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(619) Johnston Island region
(620) Line Islands region
(621) Palmyra Island region
(622) Kiritimati region
(623) Tuvalu region
(624) Phoenix Islands region
(625) Tokelau Islands region
(626) Northern Cook Islands
(627) Cook Islands region 1620
(628) Society Islands region
(629) Tubuai Islands region
(630) Marquesas Islands region
(631) Tuamotu Archipelago region
(632) South Pacific Ocean 1620

SEISMIC REGION 40.
Arctic Zone.
(633) Lomonosov Ridge
(634) Arctic Ocean
(635) Near north coast of Kalaallit Nunaat
(636) Eastern Kalaallit Nunaat 1620
(637) Iceland region 1620
(638) Iceland 1620
(639) Jan Mayen Island region 1621
(640) Greenland Sea 1622
(641) North of Svalbard 1623
(642) Norwegian Sea 1624
(643) Svalbard region 1624
(644) North of Franz Josef Land 1625
(645) Franz Josef Land
(646) Northern Norway
(647) Barents Sea
(648) Novaya Zemlya
(649) Kara Sea
(650) Near coast of northwestern Siberia 1625
(651) North of Severnaya Zemlya 1625
(652) Severnaya Zemlya
(653) Near coast of northern Siberia 1626
(654) East of Severnaya Zemlya 1626
(655) Laptev Sea 1626

SEISMIC REGION 41.
Eastern Asia.
(656) Southeastern Siberia 1626
(657) Priamurye-Northeastern China border region 1627
(658) Northeastern China 1627
(659) North Korea 1628
(660) Sea of Japan 1628
(661) Primorye 1628
(662) Sakhalin Island 1628
(663) Sea of Okhotsk 1629
(664) Southeastern China 1630
(665) Yellow Sea 1630
(666) Off east coast of southeastern China

SEISMIC REGION 42.
Northeastern Asia, Northern Alaska to Greenland.
(667) North of New Siberian Islands
(668) New Siberian Islands
(669) Eastern Siberian Sea
(670) Near north coast of eastern Siberia 1630
(671) Eastern Siberia 1630
(672) Chukchi Sea
(673) Bering Strait
(674) St. Lawrence Island region
(675) Beaufort Sea 1630
(676) Northern Alaska 1630
(677) Northern Yukon Territory 1631
(678) Queen Elizabeth Islands 1631
(679) Northwest Territories 1631
(680) Western Kalaallit Nunaat 1631
(681) Baffin Bay 1631
(682) Baffin Island region 1631

SEISMIC REGION 43.
Southeastern and Antarctic Pacific Ocean.
(683) Southeastcentral Pacific Ocean 1631
(684) Southern East Pacific Rise 1631
(685) Easter Island region 1632
(686) West Chile Rise 1633
(687) Juan Fernandez Islands region
(688) East of North Island 1633
(689) Chatham Islands region
(690) South of Chatham Islands
(691) Pacific-Antarctic Ridge 1633
(692) Southern Pacific Ocean 1634
(756) Southeast of Easter Island 1635

SEISMIC REGION 44.
Galapagos Area.
(693) Eastcentral Pacific Ocean 1635
(694) Central East Pacific Rise 1635
(695) West of Galapagos Islands 1636
(696) Galapagos Islands region
(697) Galapagos Islands
(698) Southwest of Galapagos Islands
(699) Southeast of Galapagos Islands
(757) Galapagos Triple Junction region 1636

SEISMIC REGION 45.
Macquarie Loop.
(700) South of Tasmania
(701) West of Macquarie Island 1636
(702) Balleny Islands region 1637

SEISMIC REGION 46.
Andaman Islands to Sumatera.
(703) Andaman Islands region 1638
(704) Nicobar Islands region 1640
(705) Off west coast of northern Sumatera 1640
(706) Northern Sumatera 1643
(707) Malay Peninsula
(708) Gulf of Thailand

SEISMIC REGION 47.
Baluchistan.
(709) Southeastern Afghanistan 1648
(710) Pakistan 1648
(711) Southwestern Kashmir 1650
(712) India-Pakistan border region

SEISMIC REGION 48.
Hindu Kush and Pamir.
(713) Central Kazakhstan 1650
(714) Southeastern Uzbekistan 1650
(715) Tajikistan 1650
(716) Kyrgyzstan 1653
(717) Afghanistan-Tajikistan border region 1657
(718) Hindu Kush region 1663
(719) Tajikistan-Xinjiang border region 1668
(720) Northwestern Kashmir 1670

SEISMIC REGION 49.
Northern Eurasia.
(721) Finland 1670
(722) Norway-Murmansk border region
(723) Finland-Karelia border region
(724) Baltic States-Belarus-Northwestern Russia 1670
(725) Northwestern Siberia
(726) Northern and central Siberia 1671

SEISMIC REGION 50.
Antarctica.
(727) Victoria Land
(728) Ross Sea
(729) Antarctica

MAJOR EARTHQUAKES

MAJOR SHALLOW FOCUS EARTHQUAKES
h<=60km,M>=5.5

(321) Southern Xinjiang

ISC	**I**	**01 01 56 05.8–.70**	**39.43N–.02**	**75.28E–.02**	**8–4**	**5.1b,4.4s**	**644**	**1-150**
KRNET	I	01 01 56 03.0–.10	39.16N	75.24E		5.7b,4.4s		**¶15902455**
IDC	I	01 01 56 04.3–.40	39.42N	75.27E	0	4.8,4.7		
BJI	I	01 01 56 04.7	39.49N	75.21E	9	5.1b,5.0L		
ISCJB	I	01 01 56 04.2–.11	39.36N–.02	75.31E–.02	10	5.0b,4.4s		
NEIC	I	01 01 56 06.0–.15	39.44N	75.25E	10	5.1b,4.4s		
GCMT	I	01 01 56 06.0–.20	39.44N	75.16E	12	4.9W,4.4s		
MOS	I	01 01 56 06.5–1.1	39.47N	75.29E	23	5.2b,4.4s		
SOME	I	01 01 56 07.7	39.68N	75.42E	10	4.6s,4.4s		
NNC	I	01 01 56 10.9–2.4	39.77N	75.23E	0	5.3b,5.1		

ISC Event type fe.
IDC Error ellipse: s-maj=9.8km s-min=8.9km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=22.4.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=27.0. Felt at Kashi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c61; s97,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.88±.07 $M_{\theta\theta}$-3.26±.06; $M_{\phi\phi}$0.37±.07; $M_{r\theta}$0.15±.19; $M_{\theta\phi}$0.01±.06; $M_{\phi r}$-0.34±.24; Best double couple: NP1:ϕ_s98.00000°,δ47.00000°,λ100.00000°. NP2:ϕ_s263.00000°,δ44.00000°,λ79.00000°. Principal axes: T 2.9280,Plg82.0000°,Azm79.0000°; N 0.3310,Plg7.0000°,Azm271.0000°; P -3.2640,Plg1.0000°,Azm180.0000° M_o3.09600×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=117.0.
NNC Event type se. Error ellipse: s-maj=21.8km s-min=13.0km az=178.0.

(273) Southwest of Sumatera

ISC	**I**	**02 15 19 31.3–.31**	**4.57S–.03**	**101.32E–.03**	**26–1**	**5.6s,5.6b**	**1164**	**2-175**
BJI	I	02 15 19 24.0	5.07S	101.40E	22	6.0s,5.8		**¶15902867**
ISCJB	I	02 15 19 27.2–.54	4.58S–.02	101.32E–.02	11–3	5.6s,5.5b		
MOS	I	02 15 19 31.0–1.0	4.33S	101.57E	33	5.7b,5.5s		
GCMT	I	02 15 19 31.0–.10	4.73S	101.22E	21–0	5.8W,5.5s		
NEIC	I	02 15 19 31.0–.49	4.46S	101.43E	22–3	5.7W,5.7b		
IDC	I	02 15 19 31.1–1.5	4.39S	101.49E	22–9	5.5,5.4s		
KLM	I	02 15 19 32.7	4.55S	101.31E	34	6.4s,5.9L		
DJA	I	02 15 19 32.6–.20	5S–1.0	101E–1.0	46–3	6.1,6.0b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c224; s106,c246;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}2.93±.06 $M_{\theta\theta}$-1.63±.04; $M_{\phi\phi}$-1.30±.04; $M_{r\theta}$4.13±.15; $M_{\theta\phi}$1.36±.03; $M_{\phi r}$-3.27±.14; Best double couple: NP1:ϕ_s129.00000°,δ76.00000°,λ89.00000°. NP2:ϕ_s314.00000°,δ14.00000°,λ95.00000°. Principal axes: T 6.0560,Plg59.0000°,Azm37.0000°; N -0.1010,Plg1.0000°,Azm129.0000°; P -5.9540,Plg31.0000°,Azm220.0000° M_o6.00500×10^{17}
NEIC Event type fe. Felt [IV] at Bengkulu and [III] at Kapahiang. Also felt at Curup. Moment Tensor Solution. s59 Moment tensor: Scale 10^{17}Nm; M_{rr}3.08 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-2.48 $M_{r\theta}$3.65 $M_{\theta\phi}$0.68 $M_{\phi r}$-1.71 Best double couple: NP1:ϕ_s127.00000°,δ73.00000°,λ75.00000°. NP2:ϕ_s351.00000°,δ23.00000°,λ132.00000°. Principal axes: T 5.4900,Plg59.0000°,Azm16.0000°; N -1.2800,Plg15.0000°,Azm132.0000°; P -4.2100,Plg27.0000°,Azm229.0000° M_o5.00000×10^{17}

(135) Near coast of central Chile

ISC	**I**	**02 20 20 18.2–.35**	**38.39S–.02**	**73.40W–.04**	**24–2**	**7.1s,6.5b**	**1809**	**0-177**
GUC	I	02 20 20 07.5–.43	38.36S	75.03W	32–4	6.9L,6.5b		**¶601988664**
IDC	I	02 20 20 13.4–.31	38.44S	73.27W	0	7.0,7.0s		
MOS	I	02 20 20 13.4–1.4	38.40S	73.30W	33	7.0s,6.2b		
ISCJB	I	02 20 20 14.4–.86	38.33S–.02	73.34W–.03	8–5	7.1s,6.3b		
NEIC	I	02 20 20 16.0–.00	38.36S	73.28W	17	7.1s,6.3b		
BJI	I	02 20 20 17.5	38.30S	73.30W	24	7.4,7.4s		
NEIC	I	02 20 20 17.8–.13	38.36S	73.33W	24	7.2W,7.2		
GCMT	I	02 20 20 17.7–.10	38.71S	73.84W	19–0	7.1W,7.2		
NEIC	I	02 20 20 40.6–.00	38.81S	73.67W	10	7.1W,7.2		

ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=10.0km az=91.0.
MOS Error ellipse: s-maj=9.4km s-min=5.4km az=98.6. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s163.00000°,δ84.00000°,λ101.00000°. NP2:ϕ_s238.00000°,δ12.00000°,λ31.00000°. Principal axes: T Plg50.0000°,Azm85.0000°; N Plg11.0000°,Azm342.0000°; P Plg38.0000°,Azm243.0000° M_o1.60000×10^{20}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=8.7.
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{19}Nm; M_{rr}2.91 $M_{\theta\theta}$0.13 $M_{\phi\phi}$-3.04 $M_{r\theta}$-0.29 $M_{\theta\phi}$-0.03 $M_{\phi r}$-7.25 Best double couple: NP1:ϕ_s182.00000°,δ78.00000°,λ90.00000°. NP2:ϕ_s358.00000°,δ11.00000°,λ86.00000°. Principal axes: T 7.7800,Plg56.0000°,Azm93.0000°; N 0.1300,Plg1.0000°,Azm2.0000°; P -7.9100,Plg34.0000°,Azm272.0000° M_o7.80000×10^{19}
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=75.0. Felt [VII] at Nueva Imperial; [VI] at Curanilahue, Lebu and Tirua; [V] at Angol, Canete, Chiguayante, Coelemu, Concepcion, Hualqi, La Laja, Los Alamos, Los Angeles, San Pedro de la Paz, San Rosendo, Talcahuano and Temuco. Felt throughout central Chile from Santiago to Isla Chiloe. Felt [III] at San Carlos de Bariloche and Neuquen and [II] at Cutral Co, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o6.30000×10^{19} Moment Tensor Solution. s6 Moment tensor: Scale 10^{19}Nm; M_{rr}1.30 $M_{\theta\theta}$0.25 $M_{\phi\phi}$-1.55 $M_{r\theta}$0.59 $M_{\theta\phi}$-0.30 $M_{\phi r}$-3.47 Best double couple: NP1:ϕ_s172.00000°,δ79.00000°,λ82.00000°. NP2:ϕ_s30.00000°,δ13.00000°,λ128.00000°. Principal axes: T 3.7500,Plg55.0000°,Azm71.0000°; N 0.1300,Plg8.0000°,Azm173.0000°; P -3.8800,Plg34.0000°,Azm269.0000° M_o3.80000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s175.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm265.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c360; s137,c649;Duration: 8s9 Moment tensor: Scale 10^{19}Nm; M_{rr}2.84±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$-2.79±.01; $M_{r\theta}$0.27±.05; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$-5.66±.11; Best double couple: NP1:ϕ_s178.00000°,δ77.00000°,λ88.00000°. NP2:ϕ_s5.00000°,δ13.00000°,λ97.00000°. Principal axes: T 6.3570,Plg58.0000°,Azm86.0000°; N -0.0580,Plg2.0000°,Azm178.0000°; P -6.2980,Plg32.0000°,Azm269.0000° M_o6.32700×10^{19}
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{19}Nm; M_{rr}2.73 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-2.82 $M_{r\theta}$-0.45 $M_{\theta\phi}$-0.24 $M_{\phi r}$-4.45 Best double couple: NP1:ϕ_s186.00000°,δ74.00000°,λ91.00000°. NP2:ϕ_s4.00000°,δ16.00000°,λ88.00000°. Principal axes: T 5.2100,Plg61.0000°,Azm96.0000°; N 0.1100,Plg1.0000°,Azm5.0000°; P -5.3200,Plg29.0000°,Azm275.0000° M_o5.30000×10^{19}

(135) Near coast of central Chile

ISC	**I**	**02 21 10 17.1–.36**	**38.35S–.03**	**73.39W–.07**	**18**	**4.9b**	**227**	**2-175**
NEIC	I	02 21 10 12.0	38.38S	74.33W	33	5.1L,4.9b		**¶15902890**
GUC	I	02 21 10 12.1–.35	38.38S	74.33W	33–2	5.1L,4.9b		
MOS	I	02 21 10 14.1–3.9	38.30S	73.60W	33	4.7b,4.9b		
IDC	I	02 21 10 14.1–.56	38.41S	73.59W	0	4.9L,4.5		
ISCJB	I	02 21 10 15.4–.23	38.34S–.03	73.61W–.06	18	6.7s,4.8b		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Lomas San Andres. Also felt at Los Angeles, Temuco and Valdivia. After GUC.
ISCJB Event type fe.

(701) West of Macquarie Island

ISC	**I**	**03 16 43 28.8–.37**	**59.79S–.06**	**150.27E–.07**	**10**	**5.3s,5.0b**	**134**	**7-165**
BJI	I	03 16 43 26.3	59.90S	149.90E	10	5.6b,5.6b		**¶15902935**
ISCJB	I	03 16 43 27.4–.32	59.78S–.04	150.0E–.10	10	5.3s,4.9b		
IDC	I	03 16 43 27.4–.59	59.67S	150.00E	0	5.0s,5.0		
GCMT	I	03 16 43 28.7–.10	59.60S	149.85E	15–1	5.6W,5.0		
NEIC	I	03 16 43 28.7–.27	59.79S	149.90E	10	5.3s,5.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.1km az=0.8.
IDC Error ellipse: s-maj=24.2km s-min=15.4km az=92.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s95,c165; s111,c267;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{\theta\theta}$1.68±.04; $M_{\phi\phi}$-1.53±.03; $M_{r\theta}$-0.23±.07; $M_{\theta\phi}$-2.28±.03; $M_{\phi r}$-0.10±.06; Best double couple: NP1:ϕ_s72.00000°,δ89.00000°,λ-175.00000°. NP2:ϕ_s342.00000°,δ85.00000°,λ-1.00000°. Principal axes: T 2.8720,Plg3.0000°,Azm207.0000°; N -0.1500,Plg85.0000°,Azm82.0000°; P -2.7280,Plg4.0000°,Azm298.0000° M_o2.80000×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=99.0.

(282) South of Jawa

ISC	**I**	**03 21 24 25.4–.39**	**10.31S–.05**	**113.32E–.04**	**23**	**4.3b,3.5s**	**118**	**2-154**
IDC	I	03 21 24 22.4–.53	10.16S	113.38E	0	4.3,4.2		**¶15902943**
NEIC	I	03 21 24 26.1–2.0	10.32S	113.31E	26–14	4.5b,4.2		
DJA	I	03 21 24 26.4–.80	10S–3.0	113E–2.0	13–7	5.7b,5.2		

ISC Event type se.
NEIC Event type se.

(197) Near north coast of Irian Jaya

ISC	**I**	**04 02 36 29.8–.52**	**2.45S–.04**	**140.15E–.05**	**30–3**	**4.8b,3.9s**	**192**	**0-160**
IDC	I	04 02 36 25.1–.44	2.35S	140.19E	0	4.7,4.6		**¶15902951**
MOS	I	04 02 36 28.1–1.1	2.42S	140.27E	33	5.0b,4.6		
ISCJB	I	04 02 36 28.0–.57	2.44S–.03	140.30E–.04	30–4	4.7b,3.9s		
BJI	I	04 02 36 29.1	2.55S	140.24E	46	5.1b,4.8s		
NEIC	I	04 02 36 31.0–.82	2.45S	140.12E	40–8	4.9b,4.8s		
DJA	I	04 02 36 31.3–.70	2S–4.0	140E–4.0	17–4	7.2,5.7b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Genyem and Jayapura.

(274) Southern Sumatera

ISC	**I**	**04 13 21 21.2–.00**	**1.09S–.08**	**98.72E–.09**	**26**	**3.6b**	**13**	**2-145**
IDC	I	04 13 21 16.6–2.3	1.27S	98.57E	0	3.7,3.6		**¶17189426**
ISCJB	I	04 13 21 19.8–.98	1.13S–.09	98.91E–.09	26	3.6b,3.6		
DJA	I	04 13 21 34.8–.60	0S–5.0	99E–6.0	10	6.5b,6.4b		

ISC Event type ke.
ISCJB Event type ke.

(211) Southeast of Honshu

ISC	**I**	**05 00 57 33.1–.39**	**31.57N–.03**	**142.23E–.03**	**29–2**	**5.8b,5.4s**	**1760**	**3-162**
NIED	I	05 00 57 00	31.90N	142.10E	5	5.4W,5.4s		**¶15905617**
BJI	I	05 00 57 27.7	31.52N	142.25E	13	5.6s,5.5b		
ISCJB	I	05 00 57 29.0–.55	31.57N–.01	142.19E–.01	10–3	5.8b,5.3s		
MOS	I	05 00 57 30.7–.96	31.55N	142.21E	22	6.0b,5.3s		
JMA	I	05 00 57 31.6–.40	31.89N	142.12E	0	5.4,5.3s		
NEIC	I	05 00 57 32.2–.90	31.55N	142.18E	21–6	6.0b,5.4s		
GCMT	I	05 00 57 32.2–.10	31.49N	142.29E	12–0	5.6W,5.4s		
IDC	I	05 00 57 33.8–1.6	31.54N	142.19E	33–11	5.4,5.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ41.00000°,λ-64.00000°. NP2:ϕ_s161.00000°,δ54.00000°,λ-111.00000°. M_o1.43000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.8km az=173.7.
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=107.9.
JMA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=2.1km az=125.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c209; s134,c374;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.88±.03 $M_{\theta\theta}$-0.21±.03; $M_{\phi\phi}$3.09±.03; $M_{r\theta}$0.25±.07; $M_{\theta\phi}$-0.56±.02; $M_{\phi r}$0.81±.07; Best double couple: NP1:ϕ_s178.00000°,δ52.00000°,λ-80.00000°. NP2:ϕ_s343.00000°,δ39.00000°,λ-102.00000°. Principal axes: T 3.2740,Plg7.0000°,Azm261.0000°; N -0.2480,Plg8.0000°,Azm352.0000°; P -3.0240,Plg80.0000°,Azm129.0000° M_o3.14900×10^{17}
IDC Error ellipse: s-maj=9.9km s-min=7.3km az=74.0.

(348) Northern and central Iran

ISC	**I**	**05 05 55 47.6–.52**	**30.16N–.03**	**51.82E–.03**	**10–3**	**5.3b,5.0s**	**1281**	**0-134**
ISN	I	05 05 55 21.1–2.1	30.39N	53.79E	0	5.3L,5.0s		**¶15905623**
ISCJB	I	05 05 55 44.6–.50	30.12N–.02	51.75E–.01	1–3	5.3b,5.0s		
BJI	I	05 05 55 44.2	30.10N	51.80E	10	5.4s,5.1		
IDC	I	05 05 55 45.5–.36	30.19N	51.74E	0	5.0,4.9		
MOS	I	05 05 55 46.5–1.3	30.13N	51.71E	16	5.2b,4.7s		
GCMT	I	05 05 55 47.4–.10	30.08N	51.56E	21–0	5.4W,4.7s		
CSEM	I	05 05 55 47.7–.08	30.17N	51.77E	10	5.4b,5.3s		
DSN	I	05 05 55 48.5–.42	30.16N	51.81E	10	5.6s,5.1b		
THR	I	05 05 55 48.5–.73	30.19N	52.03E	14–13	5.2L,5.1b		
NEIC	I	05 05 55 48.4–1.9	30.15N	51.79E	16–12	5.4b,5.3		
TEH	I	05 05 55 49.3	30.18N	51.70E	16	5.2L,5.3		
OMAN	I	05 05 55 51.2–2.5	29.67N	52.26E	0	5.2L,5.3		

ISC Event type fe.
ISN Error ellipse: s-maj=13.7km s-min=35.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=21.2.
IDC Error ellipse: s-maj=9.7km s-min=8.9km az=17.0.
MOS Error ellipse: s-maj=5.8km s-min=3.4km az=105.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c143; s117,c235; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$0.24±.02; $M_{\phi\phi}$-0.21±.02; $M_{r\theta}$0.14±.04; $M_{\theta\phi}$1.41±.02; $M_{\phi r}$-0.15±.04; Best double couple: NP1:ϕ_s274.00000°,δ84.00000°,λ-6.00000°. NP2:ϕ_s5.00000°,δ84.00000°,λ-174.00000°. Principal axes: T 1.4450,Plg0.0000°,Azm320.0000°; N -0.0030,Plg82.0000°,Azm53.0000°; P -1.4430,Plg8.0000°,Azm230.0000° M_o1.44400×10^{17}
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=28.0.
DSN Error ellipse: s-maj=14.5km s-min=3.8km az=63.0.
THR Error ellipse: s-maj=4.6km s-min=5.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=195.0. Felt [III] at Shiraz. Also felt at Bandar Bushehr.
OMAN Error ellipse: s-maj=42.9km s-min=23.3km az=43.0.

(274) Southern Sumatera

ISC	**I**	**05 10 15 38.0–.49**	**2.66S–.03**	**100.01E–.03**	**26–3**	**5.4b,5.0s**	**890**	**0-158**
BJI	I	05 10 15 32.2	2.76S	100.09E	7	5.6b,5.5b		**¶15905631**
IDC	I	05 10 15 34.1–.32	2.60S	100.06E	0	5.1,5.0		
MOS	I	05 10 15 34.2–3.3	2.60S	100.10E	33	5.7b,4.9s		
GCMT	I	05 10 15 35.9–.30	2.97S	99.75E	33–1	5.3W,4.9s		
NEIC	I	05 10 15 35.9–1.5	2.65S	100.00E	13–8	5.4b,4.9s		
ISCJB	I	05 10 15 35.3–.64	2.64S–.02	99.94E–.02	18–4	5.4b,5.0s		
KLM	I	05 10 15 38.6	2.73S	99.84E	47	6.3s,5.5b		
DJA	I	05 10 15 39.2–.60	3S–2.0	100E–2.0	25–5	5.9,5.8b		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c93; s65,c89;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.03 $M_{\theta\theta}$-0.57±.02; $M_{\phi\phi}$-0.22±.03; $M_{r\theta}$0.57±.04; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-0.54±.04; Best double couple: NP1:ϕ_s129.00000°,δ68.00000°,λ96.00000°. NP2:ϕ_s294.00000°,δ23.00000°,λ76.00000°. Principal axes: T 1.1340,Plg67.0000°,Azm50.0000°; N -0.0460,Plg6.0000°,Azm307.0000°; P -1.0880,Plg22.0000°,Azm215.0000° M_o1.11100×10^{17}
NEIC Event type fe. Felt [III] at Padang, Painan and Pariaman.
ISCJB Event type fe.

(248) Philippine Islands region

ISC	**I**	**06 15 26 41.3–.61**	**10.86N–.05**	**126.35E–.08**	**38–2**	**4.6b,3.8s**	**124**	**1-147**
IDC	I	06 15 26 35.5–.45	10.84N	126.20E	0	4.5,4.4		**¶16017946**
BJI	I	06 15 26 36.3	10.55N	126.53E	34	4.9b,4.8s		
MAN	I	06 15 26 36	10.91N	126.66E	14	5.5b,4.8s		
MOS	I	06 15 26 38.8–1.1	10.86N	126.15E	31	4.8b,4.8s		
ISCJB	I	06 15 26 41.0–.91	10.90N–.04	126.33E–.07	52–7	4.6b,3.8s		
NEIC	I	06 15 26 41.6–2.2	10.85N	126.25E	42–21	4.8b,3.8s		
DJA	I	06 15 27 00.8–2.0	11N–12	126E–12	236–15	5.1b,4.4		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(403) Northern Mid-Atlantic Ridge

ISC	**I**	**07 01 19 16.7–.29**	**20.12N–.06**	**45.66W–.05**	**9**	**5.1b,4.9s**	**784**	**15-176**
ISCJB	I	07 01 19 14.9–.18	20.16N–.03	45.70W–.02	9	5.0b,4.9s		**¶15908414**
IDC	I	07 01 19 14.8–.40	20.18N	45.73W	0	4.9,4.9s		
MOS	I	07 01 19 15.2–1.1	20.19N	45.74W	10	5.1b,4.6s		
BJI	I	07 01 19 16.0	20.10N	45.60W	10	5.7b,5.4s		
GCMT	I	07 01 19 16.7–.10	20.30N	45.60W	12	5.5W,5.4s		
NEIC	I	07 01 19 16.7–.17	20.11N	45.62W	10	5.2b,5.4s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=2.5km az=173.9.
IDC Error ellipse: s-maj=12.1km s-min=9.9km az=156.0.
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=48.3.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c110; s131,c262; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.76±.02 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$1.81±.02; $M_{r\theta}$-0.09±.07; $M_{\theta\phi}$0.27±.02; $M_{\phi r}$-0.53±.06; Best double couple: NP1:ϕ_s9.00000°,δ53.00000° ,λ-90.00000°. NP2:ϕ_s188.00000°,δ37.00000°,λ-91.00000°. Principal axes: T 1.9260,Plg8.0000°,Azm98.0000°; N -0.0870,Plg0.0000°,Azm188.0000° ; P -1.8370,Plg82.0000°,Azm281.0000° $M_0$1.88200×10^{17}

NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=176.0.

(705) Off west coast of northern Sumatera

ISC	**I**	**07 03 09 59.3–.38**	**4.25N–.03**	**90.35E–.03**	**18–1**	**5.2s,5.2b**	**777**	**4-176**
BJI	I	07 03 09 53.5	3.79N	90.13E	15	5.4s,5.3b		**¶15908418**
ISCJB	I	07 03 09 55.0–.73	4.25N–.02	90.37E–.02	2–4	5.2s,5.1b		
IDC	I	07 03 09 56.6–.34	4.30N	90.43E	0	4.8L,4.8		
NEIC	I	07 03 09 58.8–1.9	4.24N	90.41E	17–11	5.4b,5.2s		
GCMT	I	07 03 09 58.8–.10	4.20N	90.37E	14–0	5.5W,5.2s		
MOS	I	07 03 09 59.9–1.0	4.32N	90.38E	33	5.3b,4.9s		
KLM	I	07 03 10 00.3	4.18N	90.45E	20	6.4s,5.5b		
DJA	I	07 03 10 03.0–.20	5N–3.0	91E–2.0	10	5.7b,5.4b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c146; s124,c243;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.05±.03 $M_{\theta\theta}$-1.24±.03; $M_{\phi\phi}$1.19±.03; $M_{r\theta}$-0.69±.08; $M_{\theta\phi}$-1.78±.03; $M_{\phi r}$-0.99±.10; Best double couple: NP1:ϕ_s17.00000°,δ85.00000°,λ-27.00000°. NP2:ϕ_s109.00000° ,δ63.00000°,λ-175.00000°. Principal axes: T 2.2830,Plg16.0000°,Azm66.0000° ; N 0.3410,Plg62.0000°,Azm188.0000°; P -2.6220,Plg22.0000°,Azm329.0000° $M_0$2.45200×10^{17}

(430) South of Africa

ISC	**I**	**07 19 28 34.4–.27**	**53.65S–.05**	**25.01E–.06**	**10**	**5.1b,4.8s**	**169**	**17-168**
MOS	I	07 19 28 33.4–1.4	53.57S	25.06E	10	5.0b,4.8s		**¶15909037**
IDC	I	07 19 28 33.2–.37	53.53S	25.30E	0	4.8,4.8		
ISCJB	I	07 19 28 33.0–.25	53.48S–.04	25.11E–.10	10	5.0b,4.8s		
BJI	I	07 19 28 34.7	53.50S	25.10E	10	5.6b,5.6b		
GCMT	I	07 19 28 34.5–.10	53.39S	25.50E	12	5.4W,5.6b		
NEIC	I	07 19 28 34.5–.21	53.52S	25.19E	10	5.2b,5.6b		

ISC Event type se.
MOS Error ellipse: s-maj=24.7km s-min=10.0km az=87.9.
IDC Error ellipse: s-maj=15.3km s-min=11.5km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.2km az=176.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c147; s105,c192; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00±.02 $M_{\theta\theta}$1.09±.02; $M_{\phi\phi}$-1.09±.02; $M_{r\theta}$0.31±.06; $M_{\theta\phi}$1.22±.02; $M_{\phi r}$-0.18±.06; Best double couple: NP1:ϕ_s291.00000°,δ88.00000° ,λ-12.00000°. NP2:ϕ_s21.00000°,δ78.00000°,λ-178.00000°. Principal axes: T 1.6640,Plg7.0000°,Azm337.0000°; N 0.0230,Plg78.0000°,Azm103.0000° ; P -1.6860,Plg10.0000°,Azm245.0000° $M_0$1.67500×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.4km az=81.0.

(173) Tonga Islands

ISC	**I**	**07 23 13 07.4–.77**	**20.07S–.06**	**173.61W–.05**	**21–9**	**5.3b,5.3s**	**896**	**6-177**
IDC	I	07 23 13 03.4–.40	20.01S	173.62W	0	5.1,5.1		**¶15909045**
ISCJB	I	07 23 13 04.1–.13	20.07S–.04	173.63W–.03	10	5.3b,5.3s		
BJI	I	07 23 13 05.5	19.90S	173.70W	10	5.9b,5.5s		
GCMT	I	07 23 13 06.2–.10	20.10S	173.06W	12	5.5W,5.5s		
NEIC	I	07 23 13 06.2–.16	19.90S	173.75W	10	5.4b,5.5s		
MOS	I	07 23 13 10.3–2.0	19.58S	173.43W	33	5.4b,5.3s		

ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=12.2km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.1km az=159.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c145; s121,c238; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50±.02 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$-1.45±.02; $M_{r\theta}$0.63±.05; $M_{\theta\phi}$-0.53±.01; $M_{\phi r}$0.69±.05; Best double couple: NP1:ϕ_s31.00000°,δ60.00000° ,λ103.00000°. NP2:ϕ_s186.00000°,δ32.00000°,λ68.00000°. Principal axes: T 1.7960,Plg71.0000°,Azm331.0000°; N 0.0500,Plg11.0000°,Azm204.0000° ; P -1.8450,Plg15.0000°,Azm111.0000° $M_0$1.82100×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.2km az=144.0.
MOS Error ellipse: s-maj=13.7km s-min=9.2km az=84.9.

(268) Sulawesi

ISC	**I**	**08 08 15 12.8–.29**	**1.14S–.04**	**120.07E–.04**	**10**	**4.9b,4.1s**	**214**	**0-161**
BJI	I	08 08 15 05.8	1.78S	120.50E	10	5.0b,4.9b		**¶15909062**
IDC	I	08 08 15 10.6–.43	1.05S	120.23E	0	4.6,4.5		
ISCJB	I	08 08 15 11.6–.17	1.08S–.02	120.05E–.02	10	4.8b,4.1s		
NEIC	I	08 08 15 12.9–.22	1.15S	120.09E	10	5.0b,4.1s		
GCMT	I	08 08 15 12.9–.20	1.05S	120.05E	23–1	5.0W,4.1s		
MOS	I	08 08 15 13.9–.91	1.00S	120.28E	33	4.8b,4.1s		
KLM	I	08 08 15 13.7	1.12S	119.98E	5	5.8s,5.7L		
DJA	I	08 08 15 15.1–.20	1S–3.0	120E–2.0	10	6.0,5.5b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Palu.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c44; s84,c126;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.01±.20 $M_{\theta\theta}$2.90±.15; $M_{\phi\phi}$-1.89±.18; $M_{r\theta}$0.59±.21; $M_{\theta\phi}$-3.68±.11; $M_{\phi r}$-1.08±.26; Best double couple: NP1:ϕ_s343.00000°,δ88.00000°,λ-16.00000°. NP2:ϕ_s73.00000°,δ74.00000°,λ-178.00000°. Principal axes: T 5.0720,Plg10.0000°,Azm29.0000°; N -1.0330,Plg74.0000°,Azm155.0000° ; P -4.0390,Plg13.0000°,Azm297.0000° $M_0$4.55600×10^{16}

(274) Southern Sumatera

ISC	**I**	**08 14 41 19.6–.65**	**2.01S–.04**	**100.33E–.06**	**56**	**4.1b**	**40**	**1-145**
IDC	I	08 14 41 11.2–1.4	2.21S	100.26E	0	4.0,3.9		**¶16057150**
NEIC	I	08 14 41 16.3–.73	1.97S	100.48E	35	4.1b,3.9		
ISCJB	I	08 14 41 18.2–.51	2.05S–.04	100.28E–.06	56	4.0b,2.5s		
DJA	I	08 14 41 20.2–.30	2S–2.0	100E–3.0	10	6.1b,5.8		
KLM	I	08 14 41 24.0	1.67S	100.67E	10	4.9s,4.2b		

ISC Event type fe.
IDC Error ellipse: s-maj=66.9km s-min=15.7km az=57.0.
NEIC Event type fe. Error ellipse: s-maj=24.3km s-min=10.3km az=54.0. Felt [II] at Painan.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=169.1.

(186) Vanuatu Islands

ISC	**I**	**09 10 03 43.6–.30**	**19.28S–.03**	**168.38E–.03**	**21–3**	**6.4s,6.0b**	**1577**	**3-166**
BJI	I	09 10 03 40.8	18.96S	168.45E	10	6.5s,6.4		**¶15910807**
IDC	I	09 10 03 40.3–.27	19.26S	168.33E	0	6.3,6.3s		
MOS	I	09 10 03 41.4–1.3	19.19S	168.30E	33	6.3s,6.0b		
NEIC	I	09 10 03 44.0–.09	19.16S	168.31E	22	6.6,6.6W		
ISCJB	I	09 10 03 44.1–.85	19.19S–.02	168.28E–.02	33–7	6.4s,6.0b		
GCMT	I	09 10 03 44.3–.10	19.20S	168.13E	13–0	6.5W,6.0b		
NEIC	I	09 10 03 44.0–.00	19.16S	168.33E	17	6.5W,6.0b		
NEIC	I	09 10 04 04.7–.00	18.92S	167.79E	20	6.5W,6.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=10.5km s-min=9.5km az=70.0.
MOS Error ellipse: s-maj=6.6km s-min=6.0km az=112.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.2km az=144.0. Felt [III] at Port-Vila. Also felt at Isangel. Felt at Noumea, New Caledonia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.30000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s355.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000° ,Azm265.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=18.7.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c374; s145,c644;Duration: 4s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-6.57±.03 $M_{\theta\theta}$6.55±.03; $M_{\phi\phi}$0.01±.03; $M_{r\theta}$-1.62±.07; $M_{\theta\phi}$-1.34±.02; $M_{\phi r}$-1.98±.08; Best double couple: NP1:ϕ_s84.00000°,δ53.00000°,λ-112.00000°. NP2:ϕ_s298.00000° ,δ42.00000°,λ-64.00000°. Principal axes: T 6.9280,Plg5.0000°,Azm189.0000° ; N 0.4540,Plg17.0000°,Azm98.0000°; P -7.3850,Plg72.0000°,Azm296.0000° $M_0$7.15700×10^{18}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.99 $M_{\theta\theta}$5.90 $M_{\phi\phi}$0.08 $M_{r\theta}$-3.88 $M_{\theta\phi}$-0.58 $M_{\phi r}$-0.73 Best double couple: NP1:ϕ_s86.00000° ,δ61.00000°,λ-98.00000°. NP2:ϕ_s283.00000°,δ29.00000°,λ-75.00000°. Principal axes: T 7.0700,Plg16.0000°,Azm183.0000°; N 0.1700,Plg7.0000°,Azm91.0000° ; P -7.2500,Plg72.0000°,Azm338.0000° $M_0$7.20000×10^{18}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ31.00000° ,λ-139.00000°. NP2:ϕ_s140.00000°,δ70.00000°,λ-65.00000°. Principal axes: T 0.8500,Plg21.0000°,Azm211.0000°; N 0.3900,Plg23.0000°,Azm311.0000° ; P -1.2400,Plg57.0000°,Azm84.0000°

(186) Vanuatu Islands

ISC	**I**	**09 14 54 45.5–.55**	**19.45S–.04**	**168.41E–.05**	**24–3**	**5.3s,5.1b**	**462**	**3-166**
IDC	I	09 14 54 41.2–.39	19.39S	168.46E	0	5.0,5.0s		**¶15910815**
BJI	I	09 14 54 42.7	19.14S	168.37E	10	5.5b,5.4s		
GCMT	I	09 14 54 43.2–.20	19.28S	168.36E	27–0	5.4W,5.4s		
NEIC	I	09 14 54 43.2–.18	19.30S	168.41E	10	5.5W,5.4b		
ISCJB	I	09 14 54 44.0–1.8	19.32S–.03	168.36E–.03	21–12	5.2s,5.1b		
MOS	I	09 14 54 45.5–1.4	19.39S	168.44E	33	5.2b,5.2s		

ISC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=11.9km az=131.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c122; s104,c169; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.03 $M_{\theta\theta}$0.49±.02; $M_{\phi\phi}$0.21±.02; $M_{r\theta}$0.09±.04; $M_{\theta\phi}$-0.69±.01; $M_{\phi r}$-1.24±.06; Best double couple: NP1:ϕ_s344.00000°,δ75.00000° ,λ-63.00000°. NP2:ϕ_s100.00000°,δ30.00000°,λ-150.00000°. Principal axes: T 1.4760,Plg26.0000°,Azm53.0000°; N 0.1430,Plg26.0000°,Azm156.0000° ; P -1.6180,Plg52.0000°,Azm285.0000° $M_0$1.54700×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=105.0. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.84 $M_{\theta\theta}$0.72 $M_{\phi\phi}$0.12 $M_{r\theta}$1.09 $M_{\theta\phi}$-0.59 $M_{\phi r}$-1.34 Best double couple: NP1:ϕ_s319.00000°,δ76.00000°,λ-79.00000°. NP2:ϕ_s100.00000° ,δ18.00000°,λ-128.00000°. Principal axes: T 2.0500,Plg30.0000°,Azm40.0000° ; N -0.1300,Plg11.0000°,Azm136.0000°; P -1.9200,Plg57.0000°,Azm244.0000° $M_0$2.00000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.8km az=32.1.
MOS Error ellipse: s-maj=9.7km s-min=8.4km az=109.7.

(186) Vanuatu Islands

ISC	**I**	**09 15 55 04.3–.34**	**19.29S–.06**	**168.17E–.06**	**20**	**5.1b,4.5s**	**328**	**3-166**
IDC	I	09 15 55 00.7–.49	19.26S	168.23E	0	4.8,4.8		**¶15910817**
ISCJB	I	09 15 55 03.0–.17	19.25S–.04	168.12E–.04	20	5.0b,4.5s		
GCMT	I	09 15 55 02.6–.10	19.26S	168.03E	12	5.2W,4.5s		
NEIC	I	09 15 55 02.6–.19	19.18S	168.18E	10	5.3b,4.5s		
BJI	I	09 15 55 02.0	19.10S	168.20E	10	5.5b,5.2s		
MOS	I	09 15 55 05.1–1.4	19.19S	168.11E	33	5.2b,4.3s		

ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.8km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=139.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s73,c100; s110,c183; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.01 $M_{\theta\theta}$0.50±.01; $M_{\phi\phi}$0.20±.01; $M_{r\theta}$-0.38±.03; $M_{\theta\phi}$-0.33±.01; $M_{\phi r}$0.03±.04; Best double couple: NP1:ϕ_s110.00000°,δ59.00000° ,λ-103.00000°. NP2:ϕ_s315.00000°,δ33.00000°,λ-69.00000°. Principal axes: T 0.7950,Plg13.0000°,Azm210.0000°; N 0.0280,Plg11.0000°,Azm117.0000° ; P -0.8230,Plg73.0000°,Azm348.0000° $M_0$0.80900×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.6km az=95.0.
MOS Error ellipse: s-maj=10.2km s-min=9.0km az=132.4.

(186) Vanuatu Islands

ISC	**I**	**09 16 58 07.2–.33**	**19.35S–.05**	**168.29E–.06**	**35**	**5.2b,4.9s**	**345**	**3-166**
IDC	I	09 16 58 01.3–.41	19.30S	168.31E	0	4.8,4.8		**¶15910819**
BJI	I	09 16 58 03.1	19.08S	168.38E	14	5.5b,5.3s		
NEIC	I	09 16 58 05.0–.55	19.16S	168.24E	18–3	5.2b,5.3s		
MOS	I	09 16 58 04.3–1.2	19.26S	168.18E	23	5.2b,4.5s		
GCMT	I	09 16 58 05.0–.20	19.30S	168.13E	12	5.3W,4.5s		
ISCJB	I	09 16 58 06.1–.15	19.24S–.03	168.15E–.03	33	5.0b,4.8s		

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c146; s86,c140;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.98±.02 $M_{\theta\theta}$0.59±.02; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.54±.04; $M_{\theta\phi}$-0.68±.02; $M_{\phi r}$0.14±.05; Best double couple: NP1:ϕ_s117.00000°,δ59.00000°,λ-106.00000°. NP2:ϕ_s326.00000° ,δ34.00000°,λ-66.00000°. Principal axes: T 1.2930,Plg13.0000°,Azm219.0000° ; N -0.1420,Plg13.0000°,Azm126.0000°; P -1.1510,Plg71.0000°,Azm350.0000° $M_0$1.22200×10^{17}
ISCJB Event type se.

(186) Vanuatu Islands

ISC	**I**	**09 17 21 54.0–.37**	**19.36S–.04**	**168.22E–.04**	**30–2**	**6.1s,5.5b**	**936**	**3-166**
BJI	I	09 17 21 49.2	19.18S	168.75E	17	6.2b,6.1s		**¶15917521**
IDC	I	09 17 21 49.2–.34	19.24S	168.26E	0	5.9,5.9s		
NEIC	I	09 17 21 51.6–.15	19.20S	168.16E	18	6.3,6.1W		
GCMT	I	09 17 21 51.7–.10	19.31S	168.13E	12	6.2W,6.1W		
ISCJB	I	09 17 21 52.9–2.1	19.30S–.03	168.20E–.03	31–15	6.1s,5.4b		
MOS	I	09 17 21 52.5–1.2	19.24S	168.15E	27	6.1s,5.5b		
NEIC	I	09 17 21 55.0–.00	19.08S	167.93E	15	6.1s,5.5b		
NEIC	I	09 17 22 09.5–.00	18.99S	167.76E	10	6.1s,5.5b		

ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=11.8km az=88.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.3km az=122.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ62.00000°,λ-23.00000°. NP2: ϕ_s125.00000°,δ70.00000°,λ-150.00000°. Principal axes: T Plg5.0000°,Azm253.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm347.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c325; s143,c545;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-2.05±.01 $M_{\theta\theta}$0.94±.01; $M_{\phi\phi}$1.12±.01; $M_{r\theta}$-0.96±.03; $M_{\theta\phi}$-1.17±.01; $M_{\phi r}$0.25±.03; Best double couple: NP1:ϕ_s124.00000°,δ57.00000°,λ-105.00000°. NP2:ϕ_s331.00000° ,δ36.00000°,λ-68.00000°. Principal axes: T 2.3640,Plg11.0000°,Azm225.0000° ; N -0.0230,Plg13.0000°,Azm132.0000°; P -2.3340,Plg73.0000°,Azm354.0000° $M_0$2.34900×10^{18}
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=6.9.
MOS Error ellipse: s-maj=8.2km s-min=7.2km az=104.3.
NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.50 $M_{\theta\theta}$0.58 $M_{\phi\phi}$0.92 $M_{r\theta}$-0.99 $M_{\theta\phi}$-0.96 $M_{\phi r}$-0.05 Best double couple: NP1:ϕ_s116.00000° ,δ59.00000°,λ-116.00000°. NP2:ϕ_s341.00000°,δ39.00000°,λ-52.00000°. Principal axes: T 1.8400,Plg11.0000°,Azm226.0000°; N 0.1200,Plg23.0000°,Azm131.0000° ; P -1.9500,Plg64.0000°,Azm340.0000° $M_0$1.90000×10^{18}
NEIC Event type se. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.08 $M_{\theta\theta}$0.79 $M_{\phi\phi}$1.29 $M_{r\theta}$-0.52 $M_{\theta\phi}$-0.98 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s132.00000° ,δ50.00000°,λ-104.00000°. NP2:ϕ_s332.00000°,δ42.00000°,λ-74.00000°. Principal axes: T 2.0800,Plg4.0000°,Azm231.0000°; N 0.1000,Plg10.0000°,Azm140.0000° ; P -2.1800,Plg79.0000°,Azm344.0000° $M_0$2.10000×10^{18}

(186) Vanuatu Islands

ISC	**I**	**09 18 21 09.6–.34**	**19.32S–.05**	**168.17E–.06**	**26**	**5.5s,5.1b**	**346**	**3-166**
IDC	I	09 18 21 05.8–.51	19.29S	168.15E	0	4.9s,4.9		**¶15910823**
NEIC	I	09 18 21 06.8–.18	19.30S	168.01E	10	5.5s,5.1b		
GCMT	I	09 18 21 06.8–.20	19.28S	168.02E	17–0	5.5W,5.1b		
ISCJB	I	09 18 21 08.6–.16	19.29S–.03	168.07E–.03	26	5.4s,5.0b		
BJI	I	09 18 21 09.5	18.90S	168.00E	17	5.6b,5.4s		
MOS	I	09 18 21 09.7–1.0	19.28S	168.00E	33	5.2b,4.7s		

ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=118.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c82; s103,c172; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.97±.08 $M_{\theta\theta}$1.62±.05; $M_{\phi\phi}$0.34±.04; $M_{r\theta}$-0.68±.10; $M_{\theta\phi}$-0.66±.03; $M_{\phi r}$0.10±.12; Best double couple: NP1:ϕ_s108.00000°,δ55.00000° ,λ-95.00000°. NP2:ϕ_s297.00000°,δ36.00000°,λ-83.00000°. Principal axes: T 2.0080,Plg9.0000°,Azm202.0000°; N 0.0800,Plg4.0000°,Azm111.0000° ; P -2.0930,Plg80.0000°,Azm357.0000° $M_0$2.05000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=137.6.
MOS Error ellipse: s-maj=11.5km s-min=10.2km az=121.4.

(248) Philippine Islands region

ISC	**I**	**09 20 37 31.9–.83**	**8.96N–.04**	**127.23E–.06**	**48–7**	**4.7b,4.0s**	**165**	**1-145**
IDC	I	09 20 37 25.4–.50	8.86N	127.12E	0	4.5b,4.5		**¶15927197**
MAN	I	09 20 37 26	9.02N	127.41E	28	5.2b,4.3s		
MOS	I	09 20 37 29.7–.94	8.81N	126.99E	43	4.8b,4.3s		
BJI	I	09 20 37 30.0	8.67N	127.16E	65	5.1b,4.7s		
ISCJB	I	09 20 37 30.1–.66	8.99N–.03	127.22E–.04	45–5	4.6b,4.0s		

NEIC I 09 20 37 31.4–1.5 8.90N 127.13E 46–14 4.8b,4.0s
DJA I 09 20 37 37.3–1.0 9N–7.0 127E–5.0 88–9 5.5b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(426) Chagos Archipelago region

ISC	**I**	**10 03 21 35.9–.32**	**5.44S–.05**	**68.66E–.06**	**13**	**5.0b,4.2s**	**447**	**2-155**
BJI	I	10 03 21 28.3	5.94S	68.14E	10	5.1b,4.8b		**¶15914932**
MOS	I	10 03 21 33.7–.98	5.35S	68.60E	10	5.5s,5.1b		
IDC	I	10 03 21 34.1–.45	5.29S	68.60E	0	4.6,4.5b		
ISCJB	I	10 03 21 34.3–.27	5.36S–.05	68.57E–.04	13	4.8b,4.4s		
NEIC	I	10 03 21 35.5–.25	5.32S	68.55E	10	5.0b,4.4s		
GCMT	I	10 03 21 35.5–.30	5.44S	68.63E	12–1	4.9W,4.4s		

ISC Event type se.
MOS Error ellipse: s-maj=9.1km s-min=5.0km az=108.5.
IDC Error ellipse: s-maj=14.8km s-min=13.1km az=34.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=171.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.8km az=175.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c24; s64,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.15±.17 $M_{\theta\theta}$-0.23±.10; $M_{\phi\phi}$2.39±.12; $M_{r\theta}$-0.23±.37; $M_{\theta r}$-0.61±.07; $M_{\phi r}$-0.82±.25; Best double couple: NP1:ϕ_s358.00000°,δ55.00000°,λ-76.00000°. NP2:ϕ_s156.00000°,δ37.00000°,λ-108.00000°. Principal axes: T 2.6440,Plg9.0000°,Azm79.0000°; N -0.2900,Plg11.0000°,Azm171.0000° ; P -2.3490,Plg76.0000°,Azm310.0000° $M_0$2.49700×10^{16}

(134) Off coast of central Chile

ISC	**I**	**10 06 02 51.2–.43**	**35.72S–.03**	**73.32W–.04**	**23–2**	**5.8s,5.5b**	**986**	**1-178**
GUC	I	10 06 02 46.4–.30	35.60S	73.60W	23–1	6.0W,5.9L		**¶15914934**
IDC	I	10 06 02 47.8–.36	35.68S	73.17W	0	5.8s,5.7		
ISCJB	I	10 06 02 49.5–.14	35.68S–.02	73.30W–.03	22	5.8s,5.4b		
BJI	I	10 06 02 50.7	36.00S	73.14W	30	6.0s,5.9		
MOS	I	10 06 02 50.1–1.1	35.61S	73.18W	22	6.0s,5.6b		
NEIC	I	10 06 02 52.0–.14	35.59S	73.06W	24	6.0W,5.9W		
GCMT	I	10 06 02 52.0–.10	35.77S	73.59W	12–0	5.9W,5.9W		
NEIC	I	10 06 03 04.9–.00	35.74S	72.93W	24	5.9W,5.9W		

ISC Event type fe.
GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=10.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=157.1.
MOS Error ellipse: s-maj=19.3km s-min=7.0km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=67.0. Felt [V] at Coronel, Hualpen, Lota, Penco, Talcahuano and Tome; [IV] in the Arauco-Talca area. Felt in much of central Chile as far as Santiago and Temuco. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}3.79 $M_{\theta\theta}$-0.65 $M_{\phi\phi}$-3.14 $M_{r\theta}$-1.08 $M_{\theta\phi}$-0.27 $M_{\phi r}$-7.26 Best double couple: NP1: ϕ_s188.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s5.00000°,δ13.00000°,λ87.00000°. Principal axes: T 8.4300,Plg58.0000°,Azm99.0000°; N -0.6300,Plg1.0000°,Azm8.0000° ; P -7.8100,Plg32.0000°,Azm278.0000° $M_0$8.10000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c214; s123,c358;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}4.17±.05 $M_{\theta\theta}$-0.07±.03; $M_{\phi\phi}$-4.10±.04; $M_{r\theta}$-0.86±.11; $M_{\theta\phi}$-1.10±.03; $M_{\phi r}$-7.92±.29; Best double couple: NP1: ϕ_s187.00000°,δ76.00000°,λ86.00000°. NP2:ϕ_s22.00000°,δ14.00000°,λ105.00000°. Principal axes: T 8.9730,Plg59.0000°,Azm92.0000°; N 0.1370,Plg4.0000°,Azm188.0000° ; P -9.1120,Plg31.0000°,Azm280.0000° $M_0$9.04200×10^{17}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ76.00000° ,λ91.00000°. NP2:ϕ_s12.00000°,δ14.00000°,λ85.00000°. Principal axes: T 1.0500,Plg59.0000°,Azm108.0000°; N 0.0000,Plg1.0000°,Azm16.0000° ; P -1.0500,Plg31.0000°,Azm285.0000°

(263) Talaud Islands

ISC	**I**	**12 01 45 26.2–.24**	**3.60N–.03**	**126.67E–.05**	**53**	**5.2b,4.3s**	**496**	**1-169**
BJI	I	12 01 45 18.7	3.20N	126.76E	34	5.2b,5.2b		**¶15919546**
IDC	I	12 01 45 22.1–2.5	3.62N	126.61E	20–15	5.0L,4.9		
MOS	I	12 01 45 22.0–1.0	3.66N	126.69E	33	5.4b,4.1s		
ISCJB	I	12 01 45 24.5–.12	3.63N–.02	126.74E–.03	53	5.1b,4.3s		
GCMT	I	12 01 45 25.6–.30	3.80N	126.66E	15	5.3W,4.3s		
KLM	I	12 01 45 25.1	3.64N	127.06E	42	6.1s,5.2b		
NEIC	I	12 01 45 25.6–.70	3.56N	126.53E	47–6	5.3b,5.2b		
DJA	I	12 01 45 26.5–.40	4N–4.0	127E–4.0	57–6	5.5b,5.2		

ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c45; s64,c86;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.22±.02 $M_{\theta\theta}$0.17±.01; $M_{\phi\phi}$-0.38±.01; $M_{r\theta}$0.49±.05; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.74±.04; Best double couple: NP1:ϕ_s31.00000°,δ83.00000°,λ106.00000°. NP2:ϕ_s144.00000°,δ17.00000°,λ24.00000°. Principal axes: T 0.9510,Plg50.0000°,Azm318.0000°; N 0.0020,Plg15.0000°,Azm209.0000° ; P -0.9530,Plg36.0000°,Azm108.0000° $M_0$0.95200×10^{17}
NEIC Event type se.

(134) Off coast of central Chile

ISC	**I**	**12 06 38 02.3–.41**	**36.30S–.04**	**73.45W–.06**	**27**	**4.8b,3.9s**	**115**	**1-178**
IDC	I	12 06 37 58.5–.60	36.24S	73.43W	0	4.6,4.5L		**¶15919552**
GUC	I	12 06 37 59.7–.46	36.31S	73.65W	36–2	4.6L,4.5L		
BJI	I	12 06 38 00.9	35.67S	73.33W	30	5.5s,5.4		
ISCJB	I	12 06 38 01.0–.25	36.29S–.03	73.43W–.04	27	4.8b,3.9s		
NEIC	I	12 06 38 04.5–.98	36.26S	73.26W	40–8	4.8b,3.9s		

ISC Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=13.0km az=85.0.
GUC Error ellipse: s-maj=1.4km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=8.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=5.9km az=78.0. Felt [IV] at Concepcion and Coronel; [III] at Penco, San Pedro de la Paz and Talcahuano; [II] at Parral, San Javier and Tome.

(277) Jawa

ISC	**I**	**12 12 44 47.5–.62**	**7.05S–.04**	**105.20E–.04**	**50–4**	**4.8b,4.3s**	**223**	**1-156**
BJI	I	12 12 44 42.6	6.80S	105.20E	17	5.1b,4.7b		**¶15922056**
MOS	I	12 12 44 44.2–1.1	6.72S	105.32E	33	5.0b,4.1s		
DJA	I	12 12 44 45.6–.50	7S–2.0	105E–2.0	13–3	6.0,5.7b		
NEIC	I	12 12 44 45.8–.33	6.96S	105.08E	35	4.9b,5.7b		
GCMT	I	12 12 44 45.8–.30	7.17S	105.13E	51–1	5.0W,5.7b		
ISCJB	I	12 12 44 46.1–.48	7.08S–.03	105.15E–.03	64–3	4.7b,5.7b		
IDC	I	12 12 44 47.5–1.8	6.67S	105.35E	45–15	4.6,4.5		
KLM	I	12 12 44 51.2	6.97S	105.35E	63	6.0s,5.1b		

ISC Event type fe.
MOS Error ellipse: s-maj=11.9km s-min=7.6km az=110.5.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=5.8km az=221.0. Felt [II] at Cisarua, Java. Also felt at Jakarta.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c59; s60,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.56±.17 $M_{\theta\theta}$-2.52±.13; $M_{\phi\phi}$-0.03±.18; $M_{r\theta}$1.90±.10; $M_{\theta\phi}$1.90±.09; $M_{\phi r}$0.14±.12; Best double couple: NP1:ϕ_s98.00000°,δ63.00000° ,λ66.00000°. NP2:ϕ_s322.00000°,δ36.00000°,λ128.00000°. Principal axes: T 3.3760,Plg64.0000°,Azm327.0000°; N 0.5820,Plg21.0000°,Azm110.0000° ; P -3.9560,Plg14.0000°,Azm205.0000° $M_0$3.66600×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.2km az=36.0.
IDC Error ellipse: s-maj=17.4km s-min=10.6km az=55.0.

(701) West of Macquarie Island

ISC	**I**	**12 13 05 11.8–.41**	**57.41S–.07**	**147.81E–.09**	**10**	**5.0b,4.9s**	**172**	**15-155**
IDC	I	12 13 05 08.5–.56	57.10S	148.36E	0	4.8s,4.8		**¶15922058**
ISCJB	I	12 13 05 09.5–.46	57.39S–.06	147.3E–.10	10	5.0b,4.8s		
NEIC	I	12 13 05 11.2–.42	57.32S	147.56E	10	5.2b,4.8s		
GCMT	I	12 13 05 11.1–.10	57.39S	147.43E	12	5.4W,4.8s		
BJI	I	12 13 05 12.0	57.06S	147.77E	8	5.8b,5.6b		
MOS	I	12 13 05 16.8–3.0	56.66S	149.04E	33	4.5b,5.6b		

ISC Event type se.
IDC Error ellipse: s-maj=31.3km s-min=15.8km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=8.1km az=168.1.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=9.8km az=84.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c152; s107,c198; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.02±.02 $M_{\theta\theta}$0.74±.02; $M_{\phi\phi}$-0.72±.02; $M_{r\theta}$-0.31±.05; $M_{\theta\phi}$-1.46±.02; $M_{\phi r}$-0.23±.05; Best double couple: NP1:ϕ_s77.00000°,δ85.00000° ,λ-168.00000°. NP2:ϕ_s346.00000°,δ78.00000°,λ-5.00000°. Principal axes: T 1.6560,Plg5.0000°,Azm211.0000°; N 0.0460,Plg77.0000°,Azm99.0000° ; P -1.7030,Plg12.0000°,Azm302.0000° $M_0$1.67900×10^{17}
MOS Error ellipse: s-maj=58.2km s-min=11.5km az=96.4.

(160) Off east coast of North Island

ISC	**I**	**13 12 04 55.3–.28**	**37.08S–.05**	**179.58E–.05**	**33**	**5.5b,5.1s**	**532**	**1-176**
WEL	I	13 12 04 53.7–.45	36.93S	179.94E	33	5.7L,5.1s		**¶16019205**
BJI	I	13 12 04 54.0	37.00S	179.50E	41	5.6b,5.5s		
ISCJB	I	13 12 04 55.2–.17	36.98S–.03	179.54E–.03	33	5.5b,5.1s		
MOS	I	13 12 04 55.4–1.3	36.83S	179.39E	33	5.6b,5.2s		
NEIC	I	13 12 04 56.4–.23	36.92S	179.46E	35	5.5L,5.5b		
IDC	I	13 12 04 56.9–1.6	36.73S	179.48E	39–12	5.3,5.1L		
GCMT	I	13 12 04 57.1–.10	36.87S	179.82E	19–0	5.5W,5.1L		

ISC Event type fe.
WEL Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.3km az=138.1.
MOS Error ellipse: s-maj=12.4km s-min=11.7km az=9.5.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=157.0. Felt at Gisborne.
IDC Error ellipse: s-maj=13.1km s-min=12.5km az=174.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c128; s114,c219; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$-1.04±.02; $M_{\phi\phi}$1.16±.02; $M_{r\theta}$0.01±.04; $M_{\theta\phi}$1.11±.02; $M_{\phi r}$1.17±.07; Best double couple: NP1:ϕ_s338.00000°,δ86.00000° ,λ146.00000°. NP2:ϕ_s71.00000°,δ56.00000°,λ5.00000°. Principal axes: T 2.1540,Plg26.0000°,Azm289.0000°; N -0.4870,Plg56.0000°,Azm153.0000° ; P -1.6640,Plg20.0000°,Azm30.0000° $M_0$1.90900×10^{17}

(188) Loyalty Islands

ISC	**I**	**13 16 16 42.7–.39**	**20.60S–.03**	**168.59E–.03**	**15–2**	**7.0s,6.7b**	**2592**	**2-167**
ISCJB	I	13 16 16 39.5–1.5	20.59S–.02	168.48E–.02	3–9	7.0s,6.6b		**¶15925960**
IDC	I	13 16 16 40.3–.25	20.70S	168.57E	0	6.7,6.7s		
GCMT	I	13 16 16 41.5–.00	20.68S	168.34E	17–0	6.9W,6.7s		
BJI	I	13 16 16 41.4	20.20S	168.56E	9	7.1b,7.1s		
NEIC	I	13 16 16 41.5–.08	20.63S	168.47E	9	7.1,7.1s		
NEIC	I	13 16 16 41.0–.00	20.59S	168.55E	15	7.1,7.1s		
MOS	I	13 16 16 43.7–1.1	20.63S	168.46E	30	7.1s,6.8b		
NEIC	I	13 16 17 05.3–.00	20.61S	168.04E	23	7.1s,6.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=11.7.
IDC Error ellipse: s-maj=10.2km s-min=8.6km az=5.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c381; s146,c721;Duration: 7s2 Moment tensor: Scale 10^{19} Nm; M_{rr}-2.98±.01 $M_{\theta\theta}$0.45±.01; $M_{\phi\phi}$2.53±.01; $M_{r\theta}$-0.63±.03; $M_{\theta\phi}$-1.27±.01; $M_{\phi r}$0.58±.03; Best double couple: NP1:ϕ_s149.00000°,δ53.00000°,λ-98.00000°. NP2:ϕ_s341.00000° ,δ38.00000°,λ-80.00000°. Principal axes: T 3.2330,Plg7.0000°,Azm244.0000° ; N -0.1180,Plg6.0000°,Azm153.0000°; P -3.1160,Plg80.0000°,Azm24.0000° $M_0$3.17400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=143.0. Felt [II] at Noumea, New Caledonia. Also felt at Bouloupari. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$5.30000×10^{19}
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.90 $M_{\theta\theta}$0.11 $M_{\phi\phi}$2.78 $M_{r\theta}$-1.98 $M_{\theta\phi}$-1.17 $M_{\phi r}$0.47 Best double couple: NP1:ϕ_s134.00000° ,δ60.00000°,λ-117.00000°. NP2:ϕ_s1.00000°,δ39.00000°,λ-50.00000°. Principal axes: T 3.4500,Plg11.0000°,Azm244.0000°; N 0.4200,Plg24.0000°,Azm149.0000° ; P -3.8800,Plg63.0000°,Azm358.0000° $M_0$3.70000×10^{19}
MOS Error ellipse: s-maj=6.8km s-min=5.8km az=91.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s19.00000°,δ58.00000°,λ-39.00000°. NP2: ϕ_s133.00000°,δ58.00000°,λ-141.00000°. Principal axes: T Plg0.0000°,Azm76.0000° ; N Plg41.0000°,Azm166.0000°; P Plg49.0000°,Azm346.0000°
NEIC Event type se. Moment Tensor Solution. s152 Moment tensor: Scale 10^{19}Nm; M_{rr}-3.32 $M_{\theta\theta}$0.58 $M_{\phi\phi}$2.74 $M_{r\theta}$-1.99 $M_{\theta\phi}$-1.24 $M_{\phi r}$0.41 Best double couple: NP1:ϕ_s134.00000° ,δ59.00000°,λ-113.00000°. NP2:ϕ_s354.00000°,δ38.00000°,λ-57.00000°. Principal axes: T 3.5400,Plg11.0000°,Azm240.0000°; N 0.6200,Plg20.0000°,Azm146.0000° ; P -4.1600,Plg67.0000°,Azm358.0000° $M_0$3.90000×10^{19}

(188) Loyalty Islands

ISC	**I**	**13 16 43 10.8–.22**	**20.67S–.04**	**168.47E–.04**	**30–1**	**6.3s,5.9b**	**990**	**2-166**
NEIC	I	13 16 43 07.7–.10	20.61S	168.40E	10	5.9b,5.9b		**¶15925966**
GCMT	I	13 16 43 07.7–.20	20.55S	168.29E	18–1	6.0W,5.9b		
BJI	I	13 16 43 08.4	19.97S	168.62E	13	6.4s,6.1		
MOS	I	13 16 43 09.7–1.2	20.59S	168.33E	28	5.8b,6.1		
ISCJB	I	13 16 43 10.9–.09	20.67S–.02	168.41E–.02	40	6.3s,5.8b		
IDC	I	13 16 43 12.0–.25	20.64S	168.47E	38–1	5.7s,5.7		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.4km az=121.0. Felt at Noumea, New Caledonia.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s18,c20; s78,c168;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06±.06 $M_{\theta\theta}$0.28±.03; $M_{\phi\phi}$0.77±.04; $M_{r\theta}$0.07±.09; $M_{\theta\phi}$-0.37±.02; $M_{\phi r}$0.07±.07; Best double couple: NP1: ϕ_s157.00000°,δ46.00000°,λ-83.00000°. NP2:ϕ_s327.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 0.9760,Plg1.0000°,Azm242.0000°; N 0.0880,Plg5.0000°,Azm332.0000° ; P -1.0690,Plg85.0000°,Azm142.0000° $M_0$1.02200×10^{18}
MOS Error ellipse: s-maj=9.3km s-min=8.0km az=108.1.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.5km az=162.6.
IDC Error ellipse: s-maj=9.0km s-min=8.7km az=56.0.

(188) Loyalty Islands

ISC	**I**	**13 16 57 31.4–.36**	**20.73S–.06**	**168.48E–.07**	**26**	**5.1b**	**247**	**2-165**
BJI	I	13 16 57 26.5	20.80S	168.30E	10	5.5s,5.2		**¶17190063**
IDC	I	13 16 57 26.9–.47	20.71S	168.51E	0	4.7,4.6		
MOS	I	13 16 57 27.5–1.1	20.63S	168.43E	10	5.0b,4.6		
NEIC	I	13 16 57 29.0–.19	20.59S	168.43E	10	5.2b,4.6		
ISCJB	I	13 16 57 30.2–.17	20.63S–.04	168.38E–.04	26	5.0s,4.9b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(188) Loyalty Islands

ISC	**I**	**13 17 26 08.3–.31**	**20.71S–.05**	**168.49E–.06**	**26**	**5.2b**	**301**	**2-165**
IDC	I	13 17 26 04.0–.54	20.70S	168.46E	0	4.8,4.8		**¶15925969**
BJI	I	13 17 26 04.9	20.19S	168.80E	12	5.6s,5.5		
NEIC	I	13 17 26 05.9–.13	20.62S	168.42E	10	5.3b,5.5		
ISCJB	I	13 17 26 07.1–.15	20.65S–.03	168.43E–.03	26	5.2b,5.0s		
MOS	I	13 17 26 08.2–1.1	20.58S	168.33E	33	5.1b,5.0s		

ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.4km az=102.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.6km az=143.2.
MOS Error ellipse: s-maj=17.7km s-min=12.6km az=134.3.

(280) Banda Sea

ISC	**I**	**13 18 58 58.6–.51**	**5.42S–.05**	**130.23E–.05**	**10**	**4.0b**	**45**	**1-92**
ISCJB	I	13 18 58 57.0–.39	5.46S–.04	130.22E–.05	10	4.0b		**¶15925972**
IDC	I	13 18 58 57.2–.72	5.38S	130.12E	0	4.2L,4.1		
NEIC	I	13 18 58 58.0–.46	5.53S	130.24E	10	4.4b,4.1		
DJA	I	13 18 59 09.6–.20	5S–3.0	131E–2.0	10	5.7b,5.2		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(188) Loyalty Islands

ISC	**I**	**14 02 35 18.8–.73**	**20.83S–.06**	**168.58E–.06**	**31–4**	**5.2b,4.3s**	**395**	**8-165**
IDC	I	14 02 35 13.7–.43	20.76S	168.49E	0	5.0,4.9		**¶15925985**
MOS	I	14 02 35 14.3–1.6	20.79S	168.44E	10	5.2b,4.5s		
BJI	I	14 02 35 14.8	20.28S	168.72E	6	5.5b,5.3s		
NEIC	I	14 02 35 15.9–.22	20.67S	168.45E	10	5.3b,5.3s		
GCMT	I	14 02 35 15.9–.20	20.84S	168.36E	13–0	5.1W,5.3s		
ISCJB	I	14 02 35 17.8–2.5	20.82S–.05	168.51E–.04	32–17	5.1b,4.3s		

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c52; s99,c151;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.10±.22 $M_{\theta\theta}$0.66±.14; $M_{\phi\phi}$4.44±.15; $M_{r\theta}$-2.50±.43; $M_{\theta\phi}$-1.30±.10; $M_{\phi r}$1.32±.34; Best double couple: NP1:ϕ_s145.00000°,δ59.00000°,λ-109.00000°. NP2:ϕ_s358.00000°,δ36.00000°,λ-62.00000°. Principal axes: T 5.2630,Plg12.0000°,Azm248.0000°; N 0.8330,Plg16.0000°,Azm155.0000° ; P -6.0930,Plg70.0000°,Azm13.0000° $M_0$5.67800×10^{16}

ISCJB Event type se.

(166) Auckland Islands region

ISC	**I**	**14 06 48 57.5–.44**	**49.42S–.06**	**163.95E–.06**	**15**	**5.0b,4.3s**	**121**	**4-161**
BJI	I	14 06 48 52.8	49.89S	164.20E	10	5.6b,5.5b		**¶15925989**
IDC	I	14 06 48 55.3–.64	49.25S	163.95E	0	4.8,4.6		
ISCJB	I	14 06 48 56.3–.37	49.32S–.05	163.94E–.06	15	5.0b,4.3s		
GCMT	I	14 06 48 58.8–.20	49.54S	163.47E	12	5.0W,4.3s		
NEIC	I	14 06 48 58.8–2.5	49.35S	163.83E	23–17	5.0b,4.3s		

ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=15.9km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=3.4km az=145.8.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c43; s85,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.12 $M_{\theta\theta}$4.46±.11; $M_{\phi\phi}$-3.29±.10; $M_{r\theta}$0.50±.35; $M_{\theta\phi}$-2.27±.10; $M_{\phi r}$-0.36±.31; Best double couple: NP1:ϕ_s150.00000°,δ90.00000°,λ7.00000°. NP2:ϕ_s60.00000°,δ83.00000°,λ180.00000°. Principal axes: T 5.1300,Plg5.0000°,Azm15.0000°; N -1.2060,Plg83.0000°,Azm154.0000°; P -3.9240,Plg5.0000°,Azm285.0000° $M_0$4.52700×10^{16}
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.3km az=183.0.

(190) New Ireland region

ISC	**I**	**14 23 46 12.8–.51**	**2.11S–.05**	**151.26E–.06**	**57–4**	**5.0b,3.8s**	**214**	**2-148**
ISCJB	I	14 23 46 10.8–.99	2.13S–.04	151.22E–.04	51–9	5.1b,3.9s		**¶15931005**
IDC	I	14 23 46 11.6–3.0	2.15S	151.32E	48–27	4.8,4.8L		
MOS	I	14 23 46 11.3–1.0	2.07S	151.33E	63	5.0b,4.8L		
GCMT	I	14 23 46 13.2–.40	2.12S	151.28E	51–5	4.8W,4.8L		
BJI	I	14 23 46 13.0	1.78S	151.26E	60	5.2b,5.2s		
NEIC	I	14 23 46 13.2–.77	2.14S	151.23E	61–7	5.1b,5.2s		
DJA	I	14 23 46 28.1–2.7	3S–14	151E–16	156–17	5.6b,5.1		

ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c25; s70,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.03±.19 $M_{\theta\theta}$1.14±.15; $M_{\phi\phi}$-0.11±.18; $M_{r\theta}$-1.40±.13; $M_{\theta\phi}$-0.32±.12; $M_{\phi r}$0.71±.10; Best double couple: NP1:ϕ_s115.00000°,δ73.00000°,λ-82.00000°. NP2:ϕ_s269.00000°,δ19.00000°,λ-114.00000°. Principal axes: T 2.0000,Plg27.0000°,Azm198.0000°; N -0.1390,Plg8.0000°,Azm292.0000° ; P -1.8640,Plg62.0000°,Azm37.0000° $M_0$1.93200×10^{16}
NEIC Event type se.

(188) Loyalty Islands

ISC	**I**	**15 01 39 53.2–.27**	**20.85S–.05**	**168.56E–.05**	**30**	**5.2b,4.1s**	**462**	**2-165**
BJI	I	15 01 39 47.7	20.87S	168.97E	16	5.5s,5.4b		**¶15931026**
IDC	I	15 01 39 48.5–.40	20.80S	168.58E	0	5.0,4.9		
MOS	I	15 01 39 49.8–1.2	20.69S	168.61E	15	5.3b,4.9		
GCMT	I	15 01 39 50.5–.20	20.70S	168.33E	13–0	5.0W,4.9		
NEIC	I	15 01 39 50.5–.12	20.69S	168.46E	10	5.3b,4.9		
ISCJB	I	15 01 39 52.3–.14	20.76S–.03	168.41E–.03	30	5.2b,4.1s		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c53; s91,c125;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.25±.15 $M_{\theta\theta}$0.39±.10; $M_{\phi\phi}$2.86±.10; $M_{r\theta}$0.25±.29; $M_{\theta\phi}$-0.47±.07; $M_{\phi r}$1.59±.27; Best double couple: NP1:ϕ_s178.00000°,δ59.00000°,λ-82.00000°. NP2:ϕ_s343.00000°,δ32.00000°,λ-103.00000°. Principal axes: T 3.3020,Plg13.0000°,Azm262.0000°; N 0.3680,Plg7.0000°,Azm354.0000° ; P -3.6700,Plg75.0000°,Azm110.0000° $M_0$3.48600×10^{16}
NEIC Event type se.
ISCJB Event type se.

(706) Northern Sumatera

ISC	**I**	**15 11 23 54.3–.31**	**2.48N–.03**	**96.29E–.03**	**28–1**	**5.7b,5.6s**	**1299**	**1-174**
BJI	I	15 11 23 50.7	2.44N	96.31E	22	6.0s,5.9b		**¶15931118**
ISCJB	I	15 11 23 51.6–.57	2.43N–.02	96.27E–.02	23–4	5.7b,5.6s		
NEIC	I	15 11 23 52.9–.13	2.49N	96.28E	17	5.8b,5.7		
KLM	I	15 11 23 53.6	2.45N	96.33E	9	6.8s,5.8b		
MOS	I	15 11 23 53.8–1.1	2.60N	96.33E	36	5.9b,5.5s		
GCMT	I	15 11 23 53.2–.10	2.26N	96.13E	17–0	5.8W,5.5s		
DJA	I	15 11 23 53.2–.20	2N–2.0	96E–3.0	10	6.1b,5.9		
IDC	I	15 11 23 55.0–2.5	2.56N	96.32E	33–18	5.4,5.4s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=44.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=32.0. Felt [IV] at Sinabang. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}2.81 $M_{\theta\theta}$0.69 $M_{\phi\phi}$-3.50 $M_{r\theta}$2.16 $M_{\theta\phi}$1.39 $M_{\phi r}$-0.60 Best double couple: NP1:ϕ_s11.00000°,δ43.00000°,λ137.00000°. NP2:ϕ_s135.00000°,δ62.00000°,λ55.00000°. Principal axes: T 4.1600,Plg57.0000°,Azm357.0000°; N -0.0200,Plg30.0000°,Azm153.0000° ; P -4.1500,Plg11.0000°,Azm249.0000° $M_0$4.20000×10^{17}
MOS Error ellipse: s-maj=7.5km s-min=4.2km az=115.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c218; s118,c280;Duration: 1$\hat{s}$8 Moment tensor: Scale 10^{17}Nm; M_{rr}2.57±.04 $M_{\theta\theta}$-1.50±.03; $M_{\phi\phi}$-1.07±.04; $M_{r\theta}$3.32±.14; $M_{\theta\phi}$1.26±.02; $M_{\phi r}$-3.38±.15; Best double couple: NP1: ϕ_s135.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s306.00000°,δ14.00000°,λ81.00000°. Principal axes: T 5.4000,Plg59.0000°,Azm48.0000°; N -0.0240,Plg2.0000°,Azm314.0000° ; P -5.3760,Plg31.0000°,Azm223.0000° $M_0$5.38800×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=9.2km az=52.0.

(706) Northern Sumatera

ISC	**I**	**15 11 36 07.1–.65**	**2.35N–.04**	**96.29E–.04**	**29–4**	**5.1s,5.0b**	**237**	**1-145**
BJI	I	15 11 36 00.9	1.94N	96.34E	24	5.4b,5.3s		**¶15931120**
IDC	I	15 11 36 03.0–.53	2.45N	96.36E	0	4.8,4.8L		
NEIC	I	15 11 36 04.5–.24	2.37N	96.26E	10	4.9b,4.8L		
MOS	I	15 11 36 05.7–1.1	2.44N	96.35E	33	5.1b,4.8L		
ISCJB	I	15 11 36 06.2–.57	2.29N–.03	96.27E–.03	41–5	4.9b,4.9s		
DJA	I	15 11 36 07.9–.30	2N–2.0	96E–3.0	19	6.3b,6.0		
KLM	I	15 11 36 09.5	2.46N	96.33E	35	5.8s,5.0b		

ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=11.3km az=39.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.8km az=214.0.
MOS Error ellipse: s-maj=12.6km s-min=6.2km az=106.1.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=143.9.

(706) Northern Sumatera

ISC	**I**	**15 11 45 19.7–.68**	**2.37N–.04**	**96.28E–.05**	**24–4**	**5.0b,4.9s**	**311**	**1-159**
BJI	I	15 11 45 15.4	2.02N	96.38E	29	5.7b,5.2b		**¶15931122**
IDC	I	15 11 45 16.2–.51	2.45N	96.40E	0	4.8,4.8b		
NEIC	I	15 11 45 17.6–.21	2.37N	96.27E	10	5.0b,4.8b		
KLM	I	15 11 45 18.9	2.42N	96.05E	27	6.1s,4.9b		
ISCJB	I	15 11 45 19.6–.59	2.33N–.03	96.28E–.04	40–5	5.0b,4.7s		
MOS	I	15 11 45 19.4–.97	2.49N	96.39E	33	5.2b,4.7s		
DJA	I	15 11 45 21.8–.30	2N–2.0	96E–3.0	27	6.1b,5.7		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(706) Northern Sumatera

ISC	**I**	**15 16 26 08.6–.36**	**2.44N–.03**	**96.35E–.03**	**29–1**	**5.4b,5.2s**	**703**	**1-174**
GCMT	I	15 16 26 05.6–.20	2.30N	96.22E	12	5.5W,5.2s		**¶15931161**
BJI	I	15 16 26 05.7	2.37N	96.35E	26	5.6b,5.5s		
NEIC	I	15 16 26 05.6–.23	2.40N	96.29E	10	5.4W,5.3s		
MOS	I	15 16 26 07.7–.98	2.46N	96.38E	33	5.7b,5.0s		
ISCJB	I	15 16 26 07.7–.61	2.41N–.02	96.35E–.02	33–4	5.4b,5.1s		
IDC	I	15 16 26 08.9–1.6	2.46N	96.38E	31–11	5.0,4.9b		
DJA	I	15 16 26 08.8–.70	2N–2.0	96E–3.0	15–6	5.8b,5.6		
KLM	I	15 16 26 14.3	2.64N	96.56E	24	5.7s,5.3L		

ISC Event type se.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c134; s93,c142; Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.70±.02 $M_{\theta\theta}$-0.43±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$1.16±.05; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-1.59±.06; Best double couple: NP1:ϕ_s143.00000°,δ81.00000°,λ95.00000°. NP2:ϕ_s296.00000°,δ11.00000°,λ64.00000°. Principal axes: T 2.1120,Plg54.0000°,Azm59.0000°; N -0.0500,Plg5.0000°,Azm322.0000° ; P -2.0620,Plg35.0000°,Azm229.0000° $M_0$2.08700×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=210.0. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}1.02 $M_{\theta\theta}$-0.43 $M_{\phi\phi}$-0.59 $M_{r\theta}$0.68 $M_{\theta\phi}$0.99 $M_{\phi r}$-0.21 Best double couple: NP1:ϕ_s117.00000°,δ62.00000°,λ65.00000°. NP2:ϕ_s342.00000°,δ37.00000°,λ128.00000°. Principal axes: T 1.3100,Plg64.0000°,Azm344.0000° ; N 0.3400,Plg22.0000°,Azm129.0000°; P -1.6500,Plg13.0000°,Azm225.0000° $M_0$1.50000×10^{17}
MOS Error ellipse: s-maj=8.1km s-min=4.4km az=115.9.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=36.7.
IDC Error ellipse: s-maj=13.5km s-min=8.4km az=38.0.

(706) Northern Sumatera

ISC	**I**	**15 17 20 49.4–.48**	**2.40N–.05**	**96.19E–.06**	**25**	**4.7b,4.4s**	**152**	**1-143**
IDC	I	15 17 20 45.3–.68	2.40N	96.23E	0	4.4b,4.4		**¶16032778**
BJI	I	15 17 20 45.7	1.88N	96.20E	41	5.1b,4.9b		
NEIC	I	15 17 20 46.6–.32	2.32N	96.15E	10	4.7b,4.9b		
ISCJB	I	15 17 20 47.2–.31	2.31N–.04	96.17E–.03	25	4.6b,4.0s		
MOS	I	15 17 20 48.4–.81	2.36N	96.19E	33	4.7b,4.0s		
DJA	I	15 17 20 49.6–.60	2N–3.0	96E–6.0	10	5.7b,5.2		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(188) Loyalty Islands

ISC	**I**	**15 20 00 58.0–.35**	**20.76S–.07**	**168.61E–.06**	**26**	**5.3b,3.9s**	**344**	**2-165**
IDC	I	15 20 00 53.8–.56	20.84S	168.77E	0	4.8,4.8b		**¶15931167**
GCMT	I	15 20 00 55.7–.40	20.66S	168.33E	30–1	5.0W,4.8b		
NEIC	I	15 20 00 55.7–.16	20.73S	168.67E	10	5.3b,4.8b		
ISCJB	I	15 20 00 56.7–.18	20.77S–.05	168.62E–.04	26	5.2b,4.0s		
MOS	I	15 20 00 57.1–1.3	20.71S	168.64E	27	5.1b,4.0s		
BJI	I	15 20 00 59.2	20.37S	168.89E	37	5.5s,5.4b		

ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=15.0km az=134.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c53; s57,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.79±.22 $M_{\theta\theta}$-0.01±.16; $M_{\phi\phi}$2.80±.15; $M_{r\theta}$-0.31±.29; $M_{\theta\phi}$-0.80±.10; $M_{\phi r}$1.48±.20; Best double couple: NP1:ϕ_s167.00000°,δ59.00000°,λ-88.00000°. NP2:ϕ_s344.00000°,δ31.00000°,λ-93.00000°. Principal axes: T 3.3810,Plg14.0000°,Azm255.0000°; N -0.2200,Plg1.0000°,Azm346.0000° ; P -3.1620,Plg76.0000°,Azm81.0000° $M_0$3.27200×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.0km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.3km az=159.1.
MOS Error ellipse: s-maj=14.7km s-min=10.9km az=115.9.

(193) Bougainville-Solomon Islands region

ISC	**I**	**15 23 04 42.6–.53**	**7.21S–.07**	**155.45E–.07**	**50**	**4.7b,3.9s**	**106**	**4-154**
BJI	I	15 23 04 39.2	7.61S	154.86E	27	5.2b,5.0s		**¶15931170**
MOS	I	15 23 04 40.3–1.1	6.87S	155.09E	33	4.6b,5.0s		
ISCJB	I	15 23 04 41.3–.40	7.11S–.05	155.39E–.06	50	4.6b,3.9s		
NEIC	I	15 23 04 45.3–1.0	7.13S	155.28E	71–9	4.9b,3.9s		
IDC	I	15 23 04 47.4–2.1	7.08S	155.17E	89–21	4.5,4.3		
DJA	I	15 23 04 52.6–2.0	7S–9.0	155E–10	112–16	5.6b,5.2		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(173) Tonga Islands

ISC	**I**	**16 18 42 16.9–.53**	**20.67S–.06**	**174.22W–.06**	**25–3**	**5.3b,4.9s**	**563**	**7-172**
IDC	I	16 18 42 13.0–.47	20.50S	174.25W	0	4.9,4.8		**¶15931194**
BJI	I	16 18 42 14.5	20.19S	173.90W	10	5.7b,5.5s		
GCMT	I	16 18 42 15.8–.10	20.81S	173.56W	26–0	5.3W,5.5s		
NEIC	I	16 18 42 15.8–.95	20.59S	174.29W	21–6	5.4b,5.3W		
ISCJB	I	16 18 42 16.3–.15	20.66S–.04	174.21W–.03	33	5.3b,4.9s		
MOS	I	16 18 42 22.8–2.5	19.87S	175.32W	33	5.2b,4.7s		

ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=13.8km az=130.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c122; s115,c186; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.30±.02 $M_{\theta\theta}$0.41±.02; $M_{\phi\phi}$-0.70±.01; $M_{r\theta}$0.49±.04; $M_{\theta\phi}$0.56±.01; $M_{\phi r}$0.55±.03; Best double couple: NP1:ϕ_s18.00000°,δ76.00000°,λ139.00000°. NP2:ϕ_s120.00000°,δ50.00000°,λ18.00000°. Principal axes: T 1.1760,Plg39.0000°,Azm331.0000°; N -0.1420,Plg47.0000°,Azm183.0000° ; P -1.0330,Plg16.0000°,Azm74.0000° $M_0$1.10400×10^{17}
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.4km az=137.0. Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ55.00000°,λ37.00000°. NP2:ϕ_s257.00000°,δ61.00000°,λ139.00000°. Principal axes: T 1.1400,Plg49.0000°,Azm221.0000° ; N -0.0100,Plg41.0000°,Azm48.0000°; P -1.1300,Plg3.0000°,Azm315.0000°
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.3km az=148.2.
MOS Error ellipse: s-maj=13.5km s-min=11.8km az=35.8.

(274) Southern Sumatera

ISC	**I**	**17 11 19 26.8–.36**	**3.63S–.04**	**100.46E–.05**	**29**	**4.9b,4.7s**	**305**	**1-149**
BJI	I	17 11 19 20.6	4.17S	100.61E	31	5.3b,5.1s		**¶15931552**
ISCJB	I	17 11 19 25.0–.25	3.61S–.03	100.47E–.03	29	4.8b,4.7s		
DJA	I	17 11 19 25.2–.70	4S–3.0	100E–3.0	22–8	5.5b,5.4		
GCMT	I	17 11 19 26.6–.30	3.97S	100.29E	37–1	5.1W,5.4		
NEIC	I	17 11 19 26.6–.27	3.61S	100.54E	27	5.0W,5.0b		
MOS	I	17 11 19 26.4–1.1	3.37S	100.67E	33	4.9b,4.6s		
IDC	I	17 11 19 27.8–2.9	3.40S	100.72E	29–19	4.6,4.5		
KLM	I	17 11 19 29.3	3.27S	100.39E	61	6.0s,5.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.7km az=38.2.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s54,c73; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.72±.24 $M_{\theta\theta}$-3.10±.15; $M_{\phi\phi}$-0.61±.20; $M_{r\theta}$2.42±.20; $M_{\theta\phi}$2.04±.11; $M_{\phi r}$-1.83±.27; Best double couple: NP1:ϕ_s124.00000°,δ64.00000°,λ95.00000°. NP2:ϕ_s293.00000°,δ27.00000°,λ80.00000°. Principal axes: T 4.7630,Plg71.0000°,Azm46.0000°; N 0.4980,Plg5.0000°,Azm302.0000° ; P -5.2560,Plg19.0000°,Azm211.0000° $M_0$5.01000×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.2km az=57.0. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}3.59 $M_{\theta\theta}$-3.21 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.48 $M_{\theta\phi}$1.18 $M_{\phi r}$-0.58 Best double couple: NP1:ϕ_s106.00000°,δ63.00000°,λ86.00000°. NP2:ϕ_s294.00000°,δ28.00000°,λ97.00000°. Principal axes: T 4.4100,Plg72.0000°,Azm7.0000° ; N 0.0300,Plg3.0000°,Azm108.0000°; P -4.4400,Plg18.0000°,Azm199.0000° $M_0$4.40000×10^{16}
MOS Error ellipse: s-maj=13.6km s-min=6.1km az=109.3.
IDC Error ellipse: s-maj=16.5km s-min=8.5km az=38.0.

(135) Near coast of central Chile

ISC	**I**	**17 18 53 29.4–.62**	**34.69S–.04**	**71.83W–.07**	**46–4**	**4.6b,4.5s**	**89**	**1-176**
IDC	I	17 18 53 22.4–.69	34.75S	71.74W	0	5.1L,4.5		**¶15954488**
ISCJB	I	17 18 53 28.9–.86	34.78S–.04	71.84W–.10	59–6	4.7b,4.2s		
GUC	I	17 18 53 28.2–.43	34.70S	71.83W	38–5	4.8L,4.2s		
BJI	I	17 18 53 30.2	34.60S	71.70W	42	5.6s,5.5		
NEIC	I	17 18 53 30.0–.36	34.62S	71.79W	51	5.0b,5.5		

ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=22.0km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.7km az=3.6.
GUC Error ellipse: s-maj=3.1km s-min=3.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=8.2km az=71.0. Felt [IV] at Cauquenes, Chanco, Constitucion, Curico, Empedrado, Iloca, Linares, Molina, Pelluhue, Pichilemu, Rio Claro, Romeral, Santa Cruz and Talca; [III] at Graneros, Litueche, Lolol, Navidad, Paredones, Rancagua, Rengo, San Fernando and Santiago; [II] at Concepcion, San Antonio, San Bernardo and Tiltil. Also felt at Talagante and Valparaiso.

(274) Southern Sumatera

ISC	**I**	**17 19 20 56.9–.18**	**5.10S–.03**	**102.60E–.03**	**39–2**	**6.1b,5.9s**	**1727**	**1-178**
BJI	I	17 19 20 49.5	5.73S	102.74E	33	6.2,6.2s		**¶15933576**
MOS	I	17 19 20 54.9–.89	4.90S	102.86E	30	6.3b,5.8s		
ISCJB	I	17 19 20 56.5–.33	5.09S–.02	102.65E–.02	45–2	6.1b,5.9s		
NEIC	I	17 19 20 56.0–.00	5.07S	102.69E	30	6.1b,5.9s		
DJA	I	17 19 20 57.1–.50	5S–2.0	103E–1.0	32–5	6.5,6.4b		
NEIC	I	17 19 20 57.2–.11	5.03S	102.65E	36	6.1b,6.0W		
IDC	I	17 19 20 57.2–1.2	5.02S	102.71E	36–9	5.9,5.7		
GCMT	I	17 19 20 57.2–.10	5.37S	102.45E	35–0	6.0W,5.7		
KLM	I	17 19 20 59.5	5.05S	102.66E	65	6.9s,6.1b		
NEIC	I	17 19 21 09.0–.00	5.63S	102.49E	34	6.9s,6.1b		

ISC Event type fe.
MOS Error ellipse: s-maj=8.6km s-min=4.5km az=118.5.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=36.4.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ74.00000°,λ94.00000°. NP2:ϕ_s305.00000°,δ16.00000°,λ76.00000°. Principal axes: T 1.3300,Plg60.0000°,Azm56.0000°; N 0.1400,Plg4.0000°,Azm319.0000° ; P -1.4600,Plg29.0000°,Azm227.0000°

NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=222.0. Felt [IV] at Bengkulu, Bintuhan and Manna; [III] at Kapahiang and Liwa. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}6.34 $M_{\theta\theta}$-3.95 $M_{\phi\phi}$-2.39 $M_{r\theta}$3.49 $M_{\theta\phi}$3.55 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s114.00000°,δ59.00000°,λ73.00000°. NP2:ϕ_s324.00000°,δ35.00000°,λ116.00000°. Principal axes: T 7.4800,Plg71.0000°,Azm345.0000° ; N -0.0400,Plg14.0000°,Azm122.0000°; P -7.4400,Plg12.0000°,Azm216.0000° $M_0$7.50000×10^{17}

IDC Error ellipse: s-maj=11.7km s-min=7.1km az=49.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c283; s115,c375;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.84±.01 $M_{\theta\theta}$-0.54±.01; $M_{\phi\phi}$-0.30±.01; $M_{r\theta}$0.75±.01; $M_{\theta\phi}$0.43±.01; $M_{\phi r}$-0.50±.01; Best double couple: NP1: ϕ_s125.00000°,δ68.00000°,λ88.00000°. NP2:ϕ_s310.00000°,δ22.00000°,λ95.00000°. Principal axes: T 1.2330,Plg67.0000°,Azm31.0000°; N 0.0170,Plg2.0000°,Azm125.0000° ; P -1.2500,Plg23.0000°,Azm216.0000° $M_0$1.24200×10^{18}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ20.00000°,λ102.00000°. NP2:ϕ_s118.00000°,δ70.00000°,λ86.00000°. Principal axes: T 1.2000,Plg64.0000°,Azm21.0000°; N -0.1100,Plg4.0000°,Azm120.0000° ; P -1.0900,Plg25.0000°,Azm212.0000°

(273) Southwest of Sumatera

ISC	**I**	**17 21 24 29.4–1.3**	**2.9S–.10**	**99.6E–.10**	**35**	**3.6b**	**17**	**0-146**
DJA	I	17 21 24 21.8–4.8	3S–10	99E–28	15–19	6.0b,5.6		**¶17190427**
IDC	I	17 21 24 24.6–3.6	2.98S	99.62E	0	4.2s,4.2		
ISCJB	I	17 21 24 26.5–1.2	3.03S–.09	99.5E–.10	33	4.2s,4.0b		

ISC Event type ke.

ISCJB Event type ke.

(403) Northern Mid-Atlantic Ridge

ISC	**I**	**18 07 49 44.1–.35**	**34.36N–.07**	**36.83W–.05**	**12**	**4.9b,4.2s**	**631**	**7-110**
IDC	I	18 07 49 42.0–.47	34.42N	36.88W	0	4.4,4.3		**¶15933582**
MOS	I	18 07 49 42.0–.99	34.40N	36.91W	10	4.7b,4.3		
BJI	I	18 07 49 42.1	34.40N	36.90W	10	5.7b,5.2s		
ISCJB	I	18 07 49 42.3–.21	34.43N–.05	36.97W–.02	12	4.8b,4.3s		
NEIC	I	18 07 49 44.0–.17	34.42N	36.84W	10	5.0b,4.3s		
PDA	I	18 07 49 43.9	34.12N	36.84W	10	5.0b,4.3s		
CSEM	I	18 07 49 44.0–.11	34.47N	36.83W	10	5.0b,4.3s		
GCMT	I	18 07 49 44.0–.20	34.44N	36.87W	12	5.1W,4.3s		

ISC Event type ke.

IDC Error ellipse: s-maj=13.4km s-min=11.0km az=166.0.

MOS Error ellipse: s-maj=12.8km s-min=6.4km az=57.6.

ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=2.8km az=173.7.

NEIC Event type se. Error ellipse: s-maj=5.7km s-min=2.9km az=178.0.

CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.4km az=175.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c49; s108,c179; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.14±.12 $M_{\theta\theta}$3.04±.13; $M_{\phi\phi}$3.11±.10; $M_{r\theta}$0.98±.43; $M_{\theta\phi}$2.95±.09; $M_{\phi r}$-0.27±.41; Best double couple: NP1:ϕ_s233.00000°,δ48.00000°,λ-79.00000°. NP2:ϕ_s37.00000°,δ43.00000°,λ-102.00000°. Principal axes: T 6.0460,Plg2.0000°,Azm315.0000°; N 0.2470,Plg8.0000°,Azm45.0000° ; P -6.2830,Plg82.0000°,Azm208.0000° $M_0$6.16400×10^{16}

(706) Northern Sumatera

ISC	**I**	**18 11 33 45.0–.32**	**2.58N–.03**	**96.38E–.03**	**24–1**	**5.9s,5.7b**	**1363**	**1-174**
BJI	I	18 11 33 38.6	2.32N	96.15E	18	6.2b,6.2s		**¶15934904**
IDC	I	18 11 33 39.8–.36	2.61N	96.46E	0	5.5,5.5s		
ISCJB	I	18 11 33 41.4–.59	2.56N–.02	96.39E–.02	11–3	5.8s,5.7b		
DJA	I	18 11 33 44.6–.30	3N–3.0	96E–4.0	10	6.1b,5.8		
GCMT	I	18 11 33 44.4–.10	2.38N	96.17E	15	6.0W,5.8		
MOS	I	18 11 33 44.0–1.5	2.69N	96.42E	27	5.9b,5.6s		
KLM	I	18 11 33 45.2	2.71N	96.32E	19	6.5s,5.9b		
NEIC	I	18 11 33 45.1–.18	2.63N	96.40E	21	6.0,5.9W		
NEIC	I	18 11 33 45.0–.00	2.59N	96.44E	18	6.0,5.9W		

ISC Event type fe.

IDC Error ellipse: s-maj=12.3km s-min=9.6km az=50.0.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=24.8.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c234; s105,c239;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.30±.01 $M_{\theta\theta}$-0.18±.00; $M_{\phi\phi}$-0.12±.01; $M_{r\theta}$0.71±.01; $M_{\theta\phi}$0.14±.00; $M_{\phi r}$-0.66±.01; Best double couple: NP1: ϕ_s133.00000°,δ81.00000°,λ91.00000°. NP2:ϕ_s306.00000°,δ9.00000°,λ83.00000°. Principal axes: T 1.0220,Plg54.0000°,Azm44.0000°; N -0.0060,Plg1.0000°,Azm312.0000° ; P -1.0160,Plg36.0000°,Azm222.0000° $M_0$1.01900×10^{18}

MOS Error ellipse: s-maj=7.2km s-min=4.0km az=116.0.

NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=23.0. Felt [IV] at Sinabang. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}4.18 $M_{\theta\theta}$-1.10 $M_{\phi\phi}$-3.07 $M_{r\theta}$4.26 $M_{\theta\phi}$0.34 $M_{\phi r}$-2.88 Best double couple: NP1:ϕ_s134.00000° ,δ73.00000°,λ79.00000°. NP2:ϕ_s349.00000°,δ20.00000°,λ123.00000°. Principal axes: T 7.1100,Plg60.0000°,Azm28.0000°; N -1.9000,Plg11.0000°,Azm137.0000° ; P -5.2000,Plg27.0000°,Azm233.0000° $M_0$6.40000×10^{17}

NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}2.05 $M_{\theta\theta}$-0.82 $M_{\phi\phi}$-1.23 $M_{r\theta}$6.28 $M_{\theta\phi}$1.30 $M_{\phi r}$-5.87 Best double couple: NP1:ϕ_s133.00000° ,δ82.00000°,λ88.00000°. NP2:ϕ_s327.00000°,δ7.00000°,λ104.00000°. Principal axes: T 8.7400,Plg52.0000°,Azm41.0000°; N 0.2600,Plg2.0000°,Azm133.0000° ; P -9.0000,Plg38.0000°,Azm225.0000° $M_0$8.90000×10^{17}

(354) Southwestern Pakistan

ISC	**I**	**18 20 39 21.8–.99**	**29.2N–.20**	**63.4E–.10**	**35**	**4.2b**	**40**	**7-89**
IDC	I	18 20 39 14.4–2.2	28.78N	63.45E	0	4.1,4.1		**¶16151787**
ISCJB	I	18 20 39 19.8–.69	29.1N–.10	63.4E–.10	33	4.1b,4.1		
NEIC	I	18 20 39 21.9–2.0	29.06N	63.39E	42–23	4.4b,4.1		
CSEM	I	18 20 39 23.8–.52	29.10N	63.38E	60	5.5s,4.4b		
DSN	I	18 20 39 37.2–4.0	28.12N	62.73E	70	5.5s,4.4b		

ISC Event type ke.

IDC Error ellipse: s-maj=51.9km s-min=24.7km az=164.0.

ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=6.0km az=140.0.

NEIC Event type se. Error ellipse: s-maj=26.6km s-min=12.3km az=153.0.

CSEM Event type ke. Error ellipse: s-maj=29.4km s-min=8.3km az=136.0.

DSN Error ellipse: s-maj=46.2km s-min=40.0km az=13.0.

(716) Kyrgyzstan

ISC	**I**	**19 03 47 06.1–.24**	**39.25N–.03**	**72.15E–.02**	**33**	**4.9b,4.3s**	**694**	**1-152**
IDC	I	19 03 47 00.3–.38	39.18N	72.32E	0	4.8,4.7		**¶15938052**
BJI	I	19 03 47 00.0	39.30N	72.00E	9	5.2L,5.1b		
KRNET	I	19 03 47 03.5–.10	39.04N	72.03E		5.7b,5.1b		
ISCJB	I	19 03 47 04.3–.12	39.17N–.02	72.19E–.02	33	4.9b,4.2s		
SOME	I	19 03 47 04.8	39.77N	72.32E	0	4.4s,4.2s		
MOS	I	19 03 47 04.8–1.1	39.48N	72.29E	33	5.0b,4.2s		
NNC	I	19 03 47 05.5–3.1	39.47N	72.22E	0	5.6b,5.4		
NEIC	I	19 03 47 06.5–.64	39.32N	72.25E	40–5	5.0b,5.4		

ISC Event type fe.

IDC Error ellipse: s-maj=8.1km s-min=7.4km az=151.0.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=158.0.

MOS Error ellipse: s-maj=6.2km s-min=4.1km az=112.0.

NNC Event type se. Error ellipse: s-maj=26.9km s-min=16.7km az=20.0.

NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=175.0. Felt at Andijon, Uzbekistan.

(135) Near coast of central Chile

ISC	**I**	**19 05 20 05.2–.64**	**33.99S–.03**	**72.29W–.05**	**27–4**	**5.2b,4.8s**	**706**	**0-179**
GUC	I	19 05 20 00.9–.54	33.96S	72.45W	13–10	5.4L,4.8s		**¶15938057**
NEIC	I	19 05 20 00.0	33.96S	72.45W	13	5.4L,5.3b		
ISCJB	I	19 05 20 02.1–.95	33.99S–.03	72.51W–.03	18–7	5.1b,4.7s		
MOS	I	19 05 20 05.2–1.1	33.97S	71.98W	33	5.1b,4.7s		
IDC	I	19 05 20 05.5–4.5	33.96S	72.07W	28–30	4.7,4.7		
BJI	I	19 05 20 05.4	33.84S	71.16W	32	5.5s,5.4b		

ISC Event type fe.

GUC Error ellipse: s-maj=1.9km s-min=10.1km az=-1.0.

NEIC Event type fe. Felt [IV] at Navidad, Paredones and Pichilemu; [III] at Cartagena, Curico, El Tabo, La Estrella, Las Cabras, Linares, Marchihue, Molina, Mostazal, Rancagua, Rio Claro, San Antonio, San Fernando, Santa Cruz, Santo Domingo and Talca; [II] at Chanco, Parral, Valparaiso and Vina del Mar. After GUC.

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=42.4.

MOS Error ellipse: s-maj=20.4km s-min=11.0km az=82.8.

IDC Error ellipse: s-maj=19.3km s-min=12.4km az=87.0.

(362) Western Caucasus

ISC	**I**	**19 09 17 49.5–.36**	**41.96N–.01**	**42.66E–.01**	**10–2**	**5.3b,4.8s**	**1810**	**0-161**
BJI	I	19 09 17 45.1	42.05N	42.10E	10	5.5b,5.4s		**¶15938382**
TIF	I	19 09 17 47.8	41.92N	42.71E	11–0	5.5b,5.4s		
IDC	I	19 09 17 47.2–.32	41.92N	42.64E	0	4.9,4.9		
ISCJB	I	19 09 17 48.3–.29	42.033N–.01	42.608E–.01	10–1	5.2b,4.8s		
DDA	I	19 09 17 48.7	41.88N	42.70E	28	5.3L,4.8s		
ISK	I	19 09 17 49.1	41.93N	42.62E	8	5.3L,4.8s		
NEIC	I	19 09 17 49.8–.14	41.96N	42.66E	10	5.3b,5.2W		
MOS	I	19 09 17 49.7–1.1	41.94N	42.59E	24	5.4b,4.6s		
GCMT	I	19 09 17 49.8–.20	42.01N	42.65E	19–0	5.3W,4.6s		
CSEM	I	19 09 17 49.8–.06	41.97N	42.64E	10	5.3W,5.2s		
AZER	I	19 09 17 49.8–1.0	42.06N	42.68E	12–44	5.3W,5.2s		
TEH	I	19 09 17 51.0	41.98N	42.70E	15	5.0L,5.2s		
NNC	I	19 09 17 54.8–3.4	42.44N	43.32E	0	5.2b,5.2s		

ISC Event type fe.

IDC Error ellipse: s-maj=6.6km s-min=5.6km az=45.0.

ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.2km az=177.8.

DDA Event type ke.

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=160.0. Felt [II] at Tbilisi. Also felt at Batumi, Chokhatauri, Jinvali, Kutaisi, Mestia and Sukhumi. Felt at Gyumri, Armenia and at Ardahan, Artvin and Trabzon, Turkey. Moment Tensor Solution. s6 Moment tensor: Scale 10^{16}Nm; M_{rr}4.46 $M_{\theta\theta}$-8.16 $M_{\phi\phi}$3.70 $M_{r\theta}$-1.61 $M_{\theta\phi}$-0.99 $M_{\phi r}$1.49 Best double couple: NP1: ϕ_s295.00000°,δ62.00000°,λ133.00000°. NP2:ϕ_s52.00000°,δ50.00000°,λ38.00000°. Principal axes: T 5.8700,Plg52.0000°,Azm258.0000°; N 2.5500,Plg37.0000°,Azm91.0000° ; P -8.4200,Plg7.0000°,Azm356.0000° $M_0$7.50000×10^{16}

MOS Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=127.0. Felt (III-IV) at Sochi;(II) at Tbilisi. Moment Tensor Solution.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c89; s106,c199; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.03 $M_{\theta\theta}$-1.18±.02; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.40±.04; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$0.40±.04; Best double couple: NP1:ϕ_s292.00000°,δ62.00000° ,λ123.00000°. NP2:ϕ_s58.00000°,δ42.00000°,λ44.00000°. Principal axes: T 1.1110,Plg59.0000°,Azm250.0000°; N 0.1530,Plg29.0000°,Azm95.0000° ; P -1.2590,Plg11.0000°,Azm359.0000° $M_0$1.18500×10^{17}

CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=173.0.

AZER Error ellipse: s-maj=128.7km s-min=4.6km az=291.0.

NNC Event type se. Error ellipse: s-maj=53.0km s-min=31.5km az=101.0.

(83) South of Panama

ISC	**I**	**20 12 53 41.9–.30**	**3.27N–.04**	**79.30W–.05**	**35**	**4.9b,4.0s**	**553**	**1-158**
MOS	I	20 12 53 36.8–1.2	3.26N	79.35W	13	4.8b,4.0s		**¶15947711**
IDC	I	20 12 53 36.7–.49	3.33N	79.27W	0	4.8,4.7		
IGQ	I	20 12 53 36	3.37N	78.49W	12–3	4.0b,4.7		
NEIC	I	20 12 53 37.9–.26	3.05N	79.39W	10	4.9b,4.7		
ISCJB	I	20 12 53 40.0–.13	3.33N–.02	79.22W–.03	33	4.9b,4.0s		
BJI	I	20 12 53 39.8	3.10N	79.30W	26	5.5b,5.4s		
RSNC	I	20 12 53 42.6–1.1	3.28N	79.07W	19–7	4.3L,5.4s		

ISC Event type se.

MOS Error ellipse: s-maj=17.8km s-min=10.2km az=111.0.

IDC Error ellipse: s-maj=20.0km s-min=10.3km az=57.0.

IGQ Error ellipse: s-maj=1.1km s-min=3.3km az=179.2.

NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.4km az=213.0.

ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.2km az=150.7.

RSNC Error ellipse: s-maj=6.8km s-min=8.6km az=-1.0.

(135) Near coast of central Chile

ISC	**I**	**21 15 36 10.9–1.3**	**33.96S–.04**	**72.20W–.06**	**25–8**	**4.8b,4.4s**	**196**	**0-176**
IDC	I	21 15 36 07.0–.56	33.92S	72.26W	0	4.5,4.5L		**¶15954510**
GUC	I	21 15 36 09.6–.61	33.97S	72.25W	12–5	4.7L,4.5L		
GCMT	I	21 15 36 09.0–.50	34.03S	72.48W	28–1	5.0W,4.5L		
NEIC	I	21 15 36 09.0	33.97S	72.24W	12	5.0b,4.7L		
BJI	I	21 15 36 10.8	34.00S	71.80W	18	5.5s,5.2		
MOS	I	21 15 36 11.8–1.5	34.09S	72.00W	33	4.8b,5.2		
ISCJB	I	21 15 36 11.5–.78	34.06S–.04	72.11W–.05	33–6	4.8b,4.4s		

ISC Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c44; s53,c70;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.54±.21 $M_{\theta\theta}$0.01±.13; $M_{\phi\phi}$-2.55±.15; $M_{r\theta}$-0.66±.22; $M_{\theta\phi}$0.07±.09; $M_{\phi r}$-2.24±.27; Best double couple: NP1:ϕ_s190.00000°,δ66.00000°,λ99.00000°. NP2:ϕ_s347.00000°,δ25.00000°,λ69.00000°. Principal axes: T 3.5030,Plg67.0000°,Azm118.0000°; N -0.1020,Plg9.0000°,Azm6.0000° ; P -3.4040,Plg21.0000°,Azm273.0000° $M_0$3.45300×10^{16}

NEIC Event type fe. Felt [V] at Navidad; [IV] at Longavi, Pichilemu and San Clemente; [III] at Constitucion, Empedrado, La Estrella, Marchihue, Rio Claro and Talca; [II] at Cauquenes, Chanco, Iloca, Paredones, Rancagua, San Antonio, San Fernando, Santa Cruz, Santiago and Vina del Mar. Also felt at Valparaiso. After GUC.

ISCJB Event type fe.

(64) Off coast of Michoacan

ISC	**I**	**22 01 27 32.3–.67**	**15.60N–.07**	**104.26W–.05**	**10**	**5.2b,5.0s**	**592**	**3-171**
IDC	I	22 01 27 26.6–.81	15.22N	104.63W	0	5.0,5.0s		**¶15954798**
ISCJB	I	22 01 27 27.9–.28	15.23N–.03	104.49W–.02	10	5.1b,5.0s		
MOS	I	22 01 27 27.8–.97	15.25N	104.51W	10	5.4b,4.9s		
BJI	I	22 01 27 28.6	15.20N	104.50W	10	5.6b,5.4s		
NEIC	I	22 01 27 29.3–.36	15.22N	104.47W	10	5.5,5.2b		
GCMT	I	22 01 27 29.3–.20	15.40N	104.69W	12	5.5W,5.2b		
MEX	I	22 01 27 35.1–.36	15.72N	104.15W	10–16	5.5,5.2b		

ISC Event type se.

IDC Error ellipse: s-maj=25.7km s-min=12.3km az=53.0.

ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=14.5.

MOS Error ellipse: s-maj=10.2km s-min=4.9km az=93.5.

NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.5km az=215.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c171; s114,c227; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.02 $M_{\theta\theta}$0.62±.02; $M_{\phi\phi}$-0.44±.03; $M_{r\theta}$0.27±.05; $M_{\theta\phi}$-1.71±.02; $M_{\phi r}$-0.02±.06; Best double couple: NP1:ϕ_s81.00000°,δ89.00000° ,λ172.00000°. NP2:ϕ_s171.00000°,δ82.00000°,λ1.00000°. Principal axes: T 1.9000,Plg6.0000°,Azm36.0000°; N -0.1800,Plg82.0000°,Azm258.0000° ; P -1.7200,Plg5.0000°,Azm127.0000° $M_0$1.81000×10^{17}

MEX Error ellipse: s-maj=12.8km s-min=9.2km az=-1.0.

(705) Off west coast of northern Sumatera

ISC	**I**	**22 07 34 17.6–.41**	**2.94N–.03**	**95.55E–.04**	**30–2**	**5.3b,5.1s**	**589**	**2-173**
IDC	I	22 07 34 12.6–.36	2.90N	95.50E	0	4.8,4.7		**¶15957583**
ISCJB	I	22 07 34 15.2–.68	2.87N–.02	95.53E–.02	26–4	5.2b,5.2s		
BJI	I	22 07 34 15.4	2.95N	95.59E	26	5.4b,5.4s		
MOS	I	22 07 34 15.8–.96	2.93N	95.53E	31	5.5b,5.2s		
DJA	I	22 07 34 16.8–.20	3N–2.0	96E–2.0	10	5.9,5.7b		
NEIC	I	22 07 34 17.5–1.4	2.89N	95.52E	28–9	5.4b,5.7b		
GCMT	I	22 07 34 17.5–.40	2.48N	95.34E	36–1	5.2W,5.7b		
KLM	I	22 07 34 17.9	2.81N	95.51E	63	6.3s,5.4b		

ISC Event type se.

IDC Error ellipse: s-maj=12.2km s-min=9.1km az=32.0.

ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=135.5.

MOS Error ellipse: s-maj=7.5km s-min=4.5km az=108.6.

NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.5km az=51.0.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c70; s57,c76; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.00±.37 $M_{\theta\theta}$-3.55±.29; $M_{\phi\phi}$-1.45±.35; $M_{r\theta}$3.72±.42; $M_{\theta\phi}$4.34±.25; $M_{\phi r}$-2.90±.47; Best double couple: NP1:ϕ_s128.00000°,δ64.00000° ,λ90.00000°. NP2:ϕ_s309.00000°,δ26.00000°,λ91.00000°. Principal axes: T 6.6360,Plg71.0000°,Azm37.0000°; N 1.9650,Plg0.0000°,Azm128.0000° ; P -8.6010,Plg19.0000°,Azm218.0000° $M_0$7.61800×10^{16}

(705) Off west coast of northern Sumatera

ISC	**I**	**22 07 38 56.9–.40**	**2.90N–.03**	**95.50E–.03**	**28–2**	**5.5s,5.3b**	**598**	**2-173**
BJI	I	22 07 38 50.3	2.44N	95.36E	25	5.8s,5.6		**¶15957584**
IDC	I	22 07 38 51.4–.37	2.84N	95.44E	0	5.3,5.3s		
ISCJB	I	22 07 38 54.0–.63	2.87N–.02	95.51E–.02	20–4	5.5s,5.2b		
MOS	I	22 07 38 54.8–1.1	2.87N	95.50E	32	5.5b,5.5s		
KLM	I	22 07 38 55.7	2.84N	95.41E	47	6.3s,5.5L		
GCMT	I	22 07 38 56.5–.10	2.74N	95.32E	15	5.7W,5.5L		
NEIC	I	22 07 38 56.5–.23	2.90N	95.52E	24	5.6W,5.6b		
DJA	I	22 07 38 59.2–.20	3N–2.0	96E–2.0	10	6.2,5.8b		

ISC Event type se.

ISCJB Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c184; s103,c193;Duration: 1s5 Moment tensor: Scale 10^{17}

Nm; M_{rr}1.20±.03 $M_{\theta\theta}$-0.73±.02; $M_{\phi\phi}$-0.47±.03; $M_{r\theta}$2.83±.08; $M_{\theta\phi}$0.68±.02; $M_{\phi r}$-3.45±.08;
Best double couple: NP1:ϕ_s140.00000°,δ82.00000°,λ93.00000°. NP2:ϕ_s298.00000°
,δ8.00000°,λ68.00000°. Principal axes: T 4.6100,Plg53.0000°,Azm54.0000°
; N 0.0450,Plg3.0000°,Azm320.0000°; P -4.6570,Plg37.0000°,Azm228.0000°
M_o4.63300×10^{17}

NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}3.15 $M_{\theta\theta}$0.49 $M_{\phi\phi}$-3.65 $M_{r\theta}$0.70 $M_{\theta\phi}$-0.46 $M_{\phi r}$-0.31 Best double couple: NP1:ϕ_s21.00000°
,δ45.00000°,λ111.00000°. NP2:ϕ_s172.00000°,δ49.00000°,λ71.00000°. Principal axes:
T 3.3500,Plg75.0000°,Azm14.0000°; N 0.3600,Plg15.0000°,Azm185.0000°
; P -3.7100,Plg2.0000°,Azm276.0000° M_o3.50000×10^{17}

(196) Irian Jaya region

ISC	**I**	**22 13 21 25.7–.60**	**0.53S–.03**	**132.66E–.03**	**14–3**	**5.2b,4.1s**	**350**	**1-167**
BJI	I	22 13 21 21.2	0.77S	132.49E	5	5.1b,5.1b		**¶15958000**
IDC	I	22 13 21 23.3–.41	0.44S	132.71E	0	5.0,5.0		
ISCJB	I	22 13 21 26.0–1.1	0.46S–.03	132.79E–.03	33–8	5.1b,4.1s		
MOS	I	22 13 21 26.2–1.1	0.45S	132.62E	33	5.3b,4.0s		
GCMT	I	22 13 21 28.2–.20	0.38S	132.68E	31–0	5.1W,4.0s		
DJA	I	22 13 21 28.7–.70	0S–4.0	133E–2.0	21–7	5.5b,5.5		
NEIC	I	22 13 21 28.2–.95	0.49S	132.58E	35–9	5.2b,5.5		

ISC Event type fe.
IDC Error ellipse: s-maj=15.0km s-min=10.6km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=143.4.
MOS Error ellipse: s-maj=12.4km s-min=5.4km az=113.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c75; s79,c112; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.27±.18 $M_{\theta\theta}$-3.01±.12; $M_{\phi\phi}$-1.26±.13; $M_{r\theta}$-1.56±.13; $M_{\theta\phi}$2.08±.07; $M_{\phi r}$2.01±.18; Best double couple: NP1:ϕ_s313.00000°,δ60.00000°
,λ99.00000°. NP2:ϕ_s114.00000°,δ31.00000°,λ74.00000°. Principal axes:
T 5.0220,Plg73.0000°,Azm246.0000°; N 0.0040,Plg8.0000°,Azm128.0000°
; P -5.0260,Plg15.0000°,Azm36.0000° M_o5.02400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.2km az=223.0. Felt [III] at Sorong and [II] at Manokwari.

(282) South of Jawa

ISC	**I**	**22 17 12 20.0–.97**	**10.12S–.06**	**105.15E–.08**	**10**	**3.6b**	**35**	**1-147**
IDC	I	22 17 12 15.2–1.8	10.56S	104.36E	0	4.5L,3.8		**¶16152112**
ISCJB	I	22 17 12 18.9–.93	10.17S–.07	105.18E–.08	10	3.5b,3.8		
DJA	I	22 17 12 18.9–1.5	10S–11	105E–9.0	10	5.7b,5.3		
NEIC	I	22 17 12 21.2–1.3	10.18S	105.19E	10	4.2b,5.3		

ISC Event type se.
IDC Error ellipse: s-maj=57.1km s-min=18.2km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=5.4km az=140.9.
NEIC Event type se. Error ellipse: s-maj=30.0km s-min=10.4km az=54.0.

(174) Tonga Islands region

ISC	**I**	**22 22 16 41.4–.45**	**19.3S–.10**	**172.38W–.10**	**35**	**4.7b,3.8s**	**121**	**5-172**
IDC	I	22 22 16 32.7–.51	18.10S	172.15W	0	4.6,4.6L		**¶15959232**
NEIC	I	22 22 16 37.9–.33	19.28S	172.44W	10	4.9b,4.6L		
ISCJB	I	22 22 16 40.4–.29	19.19S–.09	172.55W–.07	33	4.7b,3.9s		
BJI	I	22 22 16 41.7	19.70S	172.92W	35	5.5b,5.2s		

ISC Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=14.6km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=17.4km s-min=8.3km az=155.0. Felt at Fagatogo, American Samoa.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=7.0km az=149.7.

(1) Central Alaska

ISC	**I**	**23 02 50 05.5–.44**	**63.51N–.02**	**150.82W–.02**	**14–2**	**5.1b,4.7s**	**1020**	**0-164**
BJI	I	23 02 50 01.3	63.50N	150.80W	10	5.5s,5.2b		**¶15959234**
MOS	I	23 02 50 03.4–.99	63.58N	150.94W	13	5.2b,4.6s		
IDC	I	23 02 50 03.9–.39	63.60N	150.88W	0	4.7,4.6L		
ISCJB	I	23 02 50 03.6–.52	63.56N–.01	150.88W–.03	12–3	5.0b,4.7s		
NEIC	I	23 02 50 04.6	63.54N	150.87W	16	5.4L,5.1W		
GCMT	I	23 02 50 04.6–.10	63.57N	150.89W	18–1	5.2W,5.1W		

ISC Event type fe.
MOS Error ellipse: s-maj=9.2km s-min=4.2km az=102.0.
IDC Error ellipse: s-maj=9.4km s-min=7.0km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=18.1.
NEIC Event type fe. Felt [IV] at Cantwell and Talkeetna; [III] at Denali National Park, Fairbanks, Healy and Nenana; [II] at Eagle River, Fort Wainwright, North Pole, Wasilla and Willow. Also felt at Anchorage, Chugiak, Clear, Delta Junction, Eielson AFB, Ester, Palmer, Skwentna and Trapper Creek. After AEIC. Moment Tensor Solution. s25 Moment tensor: Scale 10^{16}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.90 $M_{\phi\phi}$0.90 $M_{r\theta}$0.08 $M_{\theta\phi}$-5.09 $M_{\phi r}$0.91 Best double couple: NP1:ϕ_s275.00000°
,δ80.00000°,λ-180.00000°. NP2:ϕ_s185.00000°,δ90.00000°,λ-10.00000°. Principal axes:
T 5.2500,Plg7.0000°,Azm230.0000°; N 0.0000,Plg80.0000°,Azm5.0000°
; P -5.2500,Plg7.0000°,Azm140.0000° M_o5.30000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c102; s106,c186; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.10±.18 $M_{\theta\theta}$0.51±.20; $M_{\phi\phi}$0.58±.17; $M_{r\theta}$-0.46±.40; $M_{\theta\phi}$-9.04±.15; $M_{\phi r}$0.90±.36; Best double couple: NP1:ϕ_s0.00000°,δ88.00000°
,λ5.00000°. NP2:ϕ_s270.00000°,δ85.00000°,λ178.00000°. Principal axes:
T 9.6740,Plg5.0000°,Azm225.0000°; N -1.1730,Plg84.0000°,Azm20.0000°
; P -8.5040,Plg2.0000°,Azm135.0000° M_o9.08900×10^{16}

(274) Southern Sumatera

ISC	**I**	**23 09 05 34.9–.35**	**4.23S–.03**	**102.16E–.04**	**49–2**	**5.3b,4.6s**	**951**	**1-165**
BJI	I	23 09 05 27.7	4.90S	102.18E	51	5.3b,5.1b		**¶15959242**
MOS	I	23 09 05 32.2–1.3	4.03S	102.28E	33	5.5b,4.4s		
KLM	I	23 09 05 33.4	4.56S	101.87E	52	6.1s,5.2b		
DJA	I	23 09 05 35.6–.30	4S–3.0	102E–2.0	49–4	5.7,5.6		
IDC	I	23 09 05 35.5–1.1	4.10S	102.23E	52–8	5.0,4.7		
ISCJB	I	23 09 05 35.4–.35	4.23S–.02	102.20E–.02	68–2	5.1b,4.7		
GCMT	I	23 09 05 35.9–.10	4.40S	102.06E	50–0	5.4W,4.7		
NEIC	I	23 09 05 35.9–.53	4.25S	102.14E	56–4	5.4b,4.7		

ISC Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=4.4km az=112.0.
IDC Error ellipse: s-maj=13.0km s-min=6.3km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.8km az=44.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c167; s91,c161; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.05±.02 $M_{\theta\theta}$-0.53±.02; $M_{\phi\phi}$-0.52±.02; $M_{r\theta}$0.65±.02; $M_{\theta\phi}$0.66±.01; $M_{\phi r}$-0.34±.02; Best double couple: NP1:ϕ_s125.00000°,δ62.00000°
,λ79.00000°. NP2:ϕ_s326.00000°,δ30.00000°,λ109.00000°. Principal axes:
T 1.2900,Plg71.0000°,Azm11.0000°; N 0.0960,Plg9.0000°,Azm130.0000°
; P -1.3880,Plg16.0000°,Azm222.0000° M_o1.33900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=48.0. Felt [IV] at Bengkulu and [II] at Painan.

(265) Minahassa Peninsula, Sulawesi

ISC	**I**	**23 13 26 51.3–.40**	**1.08N–.05**	**121.00E–.05**	**29**	**4.6b,3.4s**	**121**	**1-118**
IDC	I	23 13 26 46.2–.60	1.01N	120.99E	0	4.3,4.3		**¶16020109**
BJI	I	23 13 26 49.2	0.56N	121.11E	63	4.9b,4.8b		
ISCJB	I	23 13 26 50.6–.22	1.18N–.03	120.89E–.03	29	4.5b,3.4s		
DJA	I	23 13 26 51.9–.20	1N–3.0	121E–2.0	10	7.8,5.3b		
NEIC	I	23 13 26 54.4–.56	0.99N	120.84E	65–6	4.5b,5.3b		
KLM	I	23 13 26 56.0	1.30N	120.90E	63	5.6s,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=12.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=139.1.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=51.0. Felt [III] at Tolitoli.

(173) Tonga Islands

ISC	**I**	**24 01 02 03.8–.45**	**19.27S–.05**	**173.44W–.05**	**28–2**	**5.8s,5.5b**	**795**	**6-172**
IDC	I	24 01 01 59.0–.35	19.35S	173.33W	0	5.6,5.5s		**¶15959424**
GCMT	I	24 01 02 02.0–.10	19.42S	172.81W	12	5.7W,5.5s		
NEIC	I	24 01 02 02.0–3.9	19.20S	173.51W	16–24	5.8s,5.7W		
BJI	I	24 01 02 02.0	19.39S	172.79W	35	6.0b,5.8s		
ISCJB	I	24 01 02 03.1–.12	19.31S–.03	173.48W–.03	33	5.8s,5.3b		
MOS	I	24 01 02 03.7–1.7	19.26S	173.49W	33	5.7s,5.6b		

ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=9.2km az=133.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c240; s134,c400;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}4.03±.03 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$-3.39±.03; $M_{r\theta}$1.05±.09; $M_{\theta\phi}$-2.21±.03; $M_{\phi r}$2.46±.09;
Best double couple: NP1:ϕ_s26.00000°,δ61.00000°,λ86.00000°. NP2:ϕ_s213.00000°
,δ29.00000°,λ97.00000°. Principal axes: T 4.8000,Plg74.0000°,Azm286.0000°
; N 0.5740,Plg3.0000°,Azm27.0000°; P -5.3710,Plg16.0000°,Azm118.0000°
M_o5.08500×10^{17}

NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=148.0. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}3.26 $M_{\theta\theta}$0.31 $M_{\phi\phi}$-3.58 $M_{r\theta}$2.01 $M_{\theta\phi}$-1.39 $M_{\phi r}$0.42
Best double couple: NP1:ϕ_s174.00000°,δ43.00000°,λ50.00000°. NP2:ϕ_s42.00000°
,δ58.00000°,λ121.00000°. Principal axes: T 4.2900,Plg62.0000°,Azm4.0000°
; N -0.1200,Plg26.0000°,Azm205.0000°; P -4.1800,Plg8.0000°,Azm111.0000°
M_o4.20000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.9km az=149.2.
MOS Error ellipse: s-maj=9.3km s-min=7.8km az=65.4.

(706) Northern Sumatera

ISC	**I**	**25 03 09 00.8–.77**	**0.33N–.04**	**98.48E–.04**	**61–7**	**4.5b**	**157**	**0-145**
BJI	I	25 03 08 49.7	0.58S	98.44E	44	4.9b,4.7b		**¶15966132**
IDC	I	25 03 08 53.5–.64	0.43N	98.55E	0	4.9L,4.4		
MOS	I	25 03 08 56.7–1.2	0.53N	98.63E	33	4.8b,4.4		
ISCJB	I	25 03 08 57.5–.47	0.26N–.03	98.50E–.04	51–4	4.4b,3.8s		
DJA	I	25 03 08 58.9–.30	0N–2.0	98E–3.0	69–5	5.5b,4.9		
KLM	I	25 03 09 00.7	0.42N	98.43E	54	5.9s,4.5b		
NEIC	I	25 03 09 00.9–.79	0.45N	98.56E	53–6	4.7b,4.5b		

ISC Event type fe.
IDC Error ellipse: s-maj=24.0km s-min=14.8km az=51.0.
MOS Error ellipse: s-maj=13.6km s-min=7.0km az=101.6.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.6km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=5.3km az=222.0. Felt [II] at Natal, Sumatra.

(228) Near east coast of eastern Honshu

ISC	**I**	**25 05 24 41.2–.40**	**35.21N–.03**	**141.24E–.03**	**23–2**	**5.6b,5.1s**	**1454**	**1-162**
NIED	I	25 05 24 00	35.20N	141.40E	23	5.2W,5.1s		**¶15963195**
IDC	I	25 05 24 37.6–.37	35.16N	141.15E	0	5.5,5.5		
BJI	I	25 05 24 37.4	35.26N	141.27E	21	5.3s,5.1		
JMA	I	25 05 24 39.2–.20	35.18N	141.41E	39–3	5.3,5.1		
ISCJB	I	25 05 24 40.5–.48	35.12N–.02	141.16E–.02	27–3	5.5b,5.0s		
NEIC	I	25 05 24 40.1–.10	35.13N	141.12E	14	5.6b,5.1W		
MOS	I	25 05 24 41.8–.84	35.26N	141.06E	33	5.8b,5.1s		
GCMT	I	25 05 24 41.1–.10	35.10N	141.22E	19–0	5.3W,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ37.00000°,λ131.00000°.
NP2:ϕ_s61.00000°,δ63.00000°,λ64.00000°. M_o7.07000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=10.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=157.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=147.0. Felt at Narita and Yokohama. Recorded [2 JMA] in Chiba and Saitama; [1 JMA] in Ibaraki, Kanagawa, Miyagi, Niigata and Tokyo. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}3.29 $M_{\theta\theta}$-3.62 $M_{\phi\phi}$0.32 $M_{r\theta}$5.06 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.56 Best double couple: NP1:ϕ_s271.00000°
,δ17.00000°,λ106.00000°. NP2:ϕ_s74.00000°,δ73.00000°,λ85.00000°. Principal axes:
T 6.1800,Plg61.0000°,Azm337.0000°; N 0.3400,Plg5.0000°,Azm76.0000°
; P -6.5200,Plg28.0000°,Azm168.0000° M_o6.40000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=110.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s76,c126; s97,c197;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.65±.02 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.05±.01; $M_{r\theta}$0.77±.04; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$0.02±.03; Best double couple: NP1:ϕ_s88.00000°
,δ69.00000°,λ92.00000°. NP2:ϕ_s261.00000°,δ21.00000°,λ84.00000°. Principal axes:
T 0.9920,Plg66.0000°,Azm2.0000°; N 0.0590,Plg2.0000°,Azm267.0000°
; P -1.0500,Plg24.0000°,Azm176.0000° M_o1.02100×10^{17}

(178) Kermadec Islands

ISC	**I**	**25 13 18 11.9–.36**	**30.16S–.04**	**177.87W–.04**	**55–2**	**5.8b,5.0s**	**1093**	**1-174**
MOS	I	25 13 18 09.1–.91	30.00S	177.91W	33	5.9b,5.1s		**¶15964371**
ISCJB	I	25 13 18 10.8–.09	30.28S–.02	177.99W–.03	55	5.7b,5.0s		
IDC	I	25 13 18 10.7–1.3	29.96S	177.85W	39–9	5.3,5.2		
GCMT	I	25 13 18 10.2–.10	29.98S	177.49W	47–0	5.4W,5.2		
NEIC	I	25 13 18 10.2–.12	30.06S	177.95W	35	5.8b,5.4W		
BJI	I	25 13 18 11.3	29.88S	177.54W	63	5.7b,5.4b		

ISC Event type se.
MOS Error ellipse: s-maj=9.7km s-min=7.8km az=78.6.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=41.8.
IDC Error ellipse: s-maj=12.6km s-min=11.8km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c195; s117,c242;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.61±.03 $M_{\theta\theta}$0.03±.02; $M_{\phi\phi}$-1.65±.02; $M_{r\theta}$0.01±.02; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$0.61±.02; Best double couple: NP1:ϕ_s7.00000°
,δ55.00000°,λ86.00000°. NP2:ϕ_s195.00000°,δ35.00000°,λ96.00000°. Principal axes:
T 1.7210,Plg79.0000°,Azm260.0000°; N 0.0950,Plg4.0000°,Azm10.0000°
; P -1.8220,Plg10.0000°,Azm101.0000° M_o1.77200×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=149.0. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.56 $M_{\theta\theta}$-0.68 $M_{\phi\phi}$-0.87 $M_{r\theta}$-0.02 $M_{\theta\phi}$-0.74 $M_{\phi r}$0.08
Best double couple: NP1:ϕ_s39.00000°,δ46.00000°,λ87.00000°. NP2:ϕ_s224.00000°
,δ44.00000°,λ94.00000°. Principal axes: T 1.5600,Plg87.0000°,Azm240.0000°
; N -0.0300,Plg2.0000°,Azm41.0000°; P -1.5300,Plg1.0000°,Azm131.0000° M_o1.50000×10^{17}

(736) Vietnam

ISC	**I**	**26 07 24 27.7–.34**	**9.74N–.04**	**108.23E–.05**	**10**	**4.7s,4.6b**	**161**	**2-149**
BJI	I	26 07 24 23.8	9.52N	108.05E	10	5.3s,4.9		**¶15966147**
IDC	I	26 07 24 25.2–.54	9.81N	108.21E	0	4.4,4.4s		
ISCJB	I	26 07 24 25.8–.24	9.81N–.03	108.19E–.04	10	4.7s,4.4b		
MOS	I	26 07 24 26.8–1.3	9.81N	108.32E	21	4.9b,4.8s		
NEIC	I	26 07 24 27.5–.28	9.89N	108.24E	10	4.7b,4.8s		
DJA	I	26 07 24 31.2–1.1	10N–13	108E–4.0	10	5.8b,5.4		
GCMT	I	26 07 24 31.1–.20	9.96N	108.22E	12	5.0W,5.4		

ISC Event type fe.
IDC Error ellipse: s-maj=19.4km s-min=11.7km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.3km az=170.4.
MOS Error ellipse: s-maj=11.2km s-min=6.2km az=115.5.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=64.0. Felt [II] at Ho Chi Minh City and Phan Thiet, Vietnam. Also felt at Bac Lieu, Nha Trang and Vung Tau.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c51; s87,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.02±.09 $M_{\theta\theta}$-1.57±.07; $M_{\phi\phi}$2.59±.09; $M_{r\theta}$-0.17±.22; $M_{\theta\phi}$-2.84±.07; $M_{\phi r}$-1.21±.23; Best double couple: NP1:ϕ_s16.00000°,δ85.00000°
,λ-21.00000°. NP2:ϕ_s108.00000°,δ69.00000°,λ-174.00000°. Principal axes:
T 4.2230,Plg11.0000°,Azm64.0000°; N -0.9760,Plg68.0000°,Azm183.0000°
; P -3.2470,Plg19.0000°,Azm330.0000° M_o3.73500×10^{16}

(706) Northern Sumatera

ISC	**I**	**26 15 42 29.7–.30**	**2.17N–.03**	**96.81E–.03**	**24–1**	**5.9s,5.7b**	**1275**	**1-175**
IDC	I	26 15 42 25.3–.34	2.22N	96.88E	0	5.7,5.7s		**¶601990108**
ISCJB	I	26 15 42 26.8–.57	2.24N–.02	96.78E–.02	12–3	5.8s,5.6b		
BJI	I	26 15 42 27.0	2.18N	96.74E	24	6.1s,5.9		
GCMT	I	26 15 42 29.6–.10	1.87N	96.52E	23–0	6.0W,5.9		
KLM	I	26 15 42 29.5	2.18N	96.60E	38	6.5s,6.2b		
MOS	I	26 15 42 29.4–1.5	2.28N	96.89E	33	5.9b,5.7s		
NEIC	I	26 15 42 29.6–.14	2.21N	96.83E	23	6.1W,6.0W		
DJA	I	26 15 42 30.6–.10	2N–2.0	97E–2.0	10	6.1,6.0b		
NEIC	I	26 15 42 30.0–.00	2.20N	96.82E	23	6.1,6.0b		
NEIC	I	26 15 42 56.3–.00	1.81N	96.22E	27	6.1,6.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=42.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c262; s125,c373;Duration: 2s5 Moment tensor: Scale 10^{18}Nm; M_{rr}0.75±.01 $M_{\theta\theta}$-0.43±.01; $M_{\phi\phi}$-0.32±.01; $M_{r\theta}$0.66±.02; $M_{\theta\phi}$0.38±.01; $M_{\phi r}$-0.79±.02; Best double couple: NP1:
ϕ_s138.00000°,δ72.00000°,λ95.00000°. NP2:ϕ_s304.00000°,δ19.00000°,λ76.00000°.
Principal axes: T 1.2790,Plg63.0000°,Azm55.0000°; N -0.0070,Plg4.0000°,Azm317.0000°
; P -1.2720,Plg27.0000°,Azm225.0000° M_o1.27500×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=3.8km az=114.1.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=34.0. Felt at Medan, Sumatra. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 5 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{17}Nm; M_{rr}5.68 $M_{\theta\theta}$-2.54 $M_{\phi\phi}$-3.15 $M_{r\theta}$5.42 $M_{\theta\phi}$-0.69 $M_{\phi r}$-3.63 Best double couple: NP1:ϕ_s124.00000°,δ75.00000°,λ90.00000°.
NP2:ϕ_s305.00000°,δ15.00000°,λ91.00000°. Principal axes: T 9.3900,Plg60.0000°
,Azm34.0000°; N -3.6000,Plg0.0000°,Azm124.0000°; P -5.8000,Plg30.0000°,Azm214.0000°
M_o8.20000×10^{17}

NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{18}Nm; M_{rr}0.39 $M_{\theta\theta}$-0.17 $M_{\phi\phi}$-0.22 $M_{r\theta}$1.04 $M_{\theta\phi}$0.36 $M_{\phi r}$-1.24 Best double couple: NP1:ϕ_s140.00000° ,δ81.00000°,λ91.00000°. NP2:ϕ_s310.00000°,δ8.00000°,λ80.00000°. Principal axes: T 1.6100,Plg53.0000°,Azm52.0000°; N 0.1600,Plg1.0000°,Azm320.0000° ; P -1.7700,Plg37.0000°,Azm229.0000° $M_0$1.70000×10^{18}

NEIC Event type se. Moment Tensor Solution. s27 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63 $M_{\theta\theta}$-0.31 $M_{\phi\phi}$-0.32 $M_{r\theta}$1.05 $M_{\theta\phi}$0.24 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s321.00000° ,δ13.00000°,λ104.00000°. NP2:ϕ_s127.00000°,δ78.00000°,λ87.00000°. Principal axes: T 1.4700,Plg57.0000°,Azm33.0000°; N -0.0800,Plg3.0000°,Azm128.0000° ; P -1.3800,Plg33.0000°,Azm219.0000° $M_0$1.40000×10^{18}

(173) Tonga Islands

ISC	**I**	**27 00 59 38.2–.51**	**15.56S–.05**	**173.05W–.05**	**19–1**	**5.3b,5.3s**	**954**	**2-174**
IDC	I	27 00 59 35.2–.38	15.54S	173.03W	0	5.1s,5.1		**¶15970227**
MOS	I	27 00 59 36.1–1.2	15.41S	173.17W	10	5.4b,5.3s		
ISCJB	I	27 00 59 36.7–2.3	15.62S–.04	173.08W–.03	15–14	5.3s,5.2b		
NEIC	I	27 00 59 37.9–.65	15.56S	173.12W	16–3	5.4b,5.3s		
GCMT	I	27 00 59 37.9–.10	15.53S	172.62W	19–0	5.6W,5.3s		
BJI	I	27 00 59 37.1	15.52S	173.15W	16	5.7b,5.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=15.9km s-min=11.6km az=142.0.
MOS Error ellipse: s-maj=9.3km s-min=7.2km az=67.8.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.7km az=152.4.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.6km az=138.0. Felt at Fagatogo, American Samoa and at Apia, Samoa.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c215; s129,c333;Duration: 1ŝ6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.73±.04 $M_{\theta\theta}$0.36±.03; $M_{\phi\phi}$-3.08±.03; $M_{r\theta}$0.36±.07; $M_{\theta\phi}$0.49±.02; $M_{\phi r}$1.62±.07; Best double couple: NP1:ϕ_s3.00000° ,δ60.00000°,λ102.00000°. NP2:ϕ_s160.00000°,δ32.00000°,λ70.00000°. Principal axes: T 3.2300,Plg72.0000°,Azm302.0000°; N 0.3170,Plg11.0000°,Azm177.0000° ; P -3.5400,Plg14.0000°,Azm84.0000° $M_0$3.38500×10^{17}

(353) Southern Iran

ISC	**I**	**27 08 38 30.0–.28**	**28.15N–.02**	**59.05E–.02**	**19–1**	**6.2s,5.7b**	**2038**	**2-166**
BJI	I	27 08 38 23.8	28.34N	58.57E	10	6.5s,6.3		**¶601990163**
IDC	I	27 08 38 26.7–.28	28.17N	59.07E	0	6.1,6.1s		
OMAN	I	27 08 38 27.9–2.2	28.11N	59.16E	3–15	6.1,6.1s		
GCMT	I	27 08 38 28.7–.10	28.02N	59.02E	14–0	6.2W,6.1s		
ISCJB	I	27 08 38 28.2–.37	28.15N–.01	58.99E–.01	21–2	6.2s,5.6b		
CSEM	I	27 08 38 28.7–.06	28.18N	59.03E	12	6.2W,6.1s		
NEIC	I	27 08 38 28.3–.13	28.20N	59.02E	10	6.2W,6.2s		
THR	I	27 08 38 28.5–.95	28.15N	59.09E	15	5.8L,6.2s		
MOS	I	27 08 38 29.2–.96	28.10N	59.04E	33	6.1s,5.8b		
SFS	I	27 08 38 29.0	28.20N	59.00E	15	5.9L,5.8b		
NEIC	I	27 08 38 29.0–.00	28.19N	58.97E	15	5.9L,5.8b		
TEH	I	27 08 38 32.8	28.29N	58.95E	10	6.0L,5.8b		

ISC Event type ke.
IDC Error ellipse: s-maj=8.0km s-min=7.4km az=164.0.
OMAN Error ellipse: s-maj=10.1km s-min=4.5km az=110.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c276; s138,c472;Duration: 3ŝ1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.20±.01 $M_{\theta\theta}$2.42±.02; $M_{\phi\phi}$-2.22±.02; $M_{r\theta}$0.20±.03; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$0.50±.04; Best double couple: NP1:ϕ_s221.00000°,δ85.00000°,λ-167.00000°. NP2:ϕ_s129.00000° ,δ77.00000°,λ-5.00000°. Principal axes: T 2.4790,Plg5.0000°,Azm354.0000° ; N -0.1140,Plg76.0000°,Azm242.0000°; P -2.3620,Plg12.0000°,Azm86.0000° $M_0$2.42100×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=19.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=13.0. Felt at Bam. Also felt at Al Fujayrah, United Arab Emirates. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s65 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.14 $M_{\theta\theta}$1.51 $M_{\phi\phi}$-1.36 $M_{r\theta}$0.11 $M_{\theta\phi}$0.47 $M_{\phi r}$0.02 Best double couple: NP1:ϕ_s36.00000°,δ87.00000° ,λ178.00000°. NP2:ϕ_s126.00000°,δ88.00000°,λ3.00000°. Principal axes: T 1.5900,Plg4.0000°,Azm351.0000°; N -0.1500,Plg86.0000°,Azm169.0000° ; P -1.4400,Plg0.0000°,Azm261.0000° $M_0$1.50000×10^{18}
THR Error ellipse: s-maj=5.2km s-min=3.8km az=-1.0.
MOS Error ellipse: s-maj=4.7km s-min=3.0km az=116.2.
SFS Event type ke.
NEIC Event type se. Moment Tensor Solution. s38 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.54 $M_{\theta\theta}$2.51 $M_{\phi\phi}$-1.97 $M_{r\theta}$-0.71 $M_{\theta\phi}$0.24 $M_{\phi r}$-0.15 Best double couple: NP1:ϕ_s221.00000° ,δ84.00000°,λ167.00000°. NP2:ϕ_s312.00000°,δ77.00000°,λ5.00000°. Principal axes: T 2.6800,Plg13.0000°,Azm177.0000°; N -0.6900,Plg76.0000°,Azm19.0000° ; P -1.9900,Plg5.0000°,Azm268.0000° $M_0$2.30000×10^{18}

(353) Southern Iran

ISC	**I**	**27 08 43 26.6–.34**	**28.12N–.04**	**59.08E–.04**	**10**	**4.8b**	**160**	**2-117**
ISCJB	I	27 08 43 25.2–.22	28.09N–.02	59.08E–.05	10	4.7b		**¶15995005**
IDC	I	27 08 43 25.0–.45	28.14N	59.02E	0	4.8,4.8		
NEIC	I	27 08 43 26.7–.32	28.13N	59.06E	10	5.0b,4.8		
CSEM	I	27 08 43 26.9–.16	28.12N	59.12E	10	5.9s,4.7b		
MOS	I	27 08 43 27.6–1.2	27.94N	58.92E	33	4.9b,4.7b		
THR	I	27 08 43 27.5–.40	28.10N	59.17E	15	5.3L,4.7b		
OMAN	I	27 08 43 28.6–.18	28.10N	59.32E	71–25	5.3L,4.7b		
DSN	I	27 08 43 28.5–2.9	27.91N	59.42E	17	7.2L,5.9s		
TEH	I	27 08 43 31.0	28.35N	59.05E	5	4.8L,5.9s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=2.8km az=8.8.
IDC Error ellipse: s-maj=11.8km s-min=10.8km az=109.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=7.2km az=94.0.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=98.0.
MOS Error ellipse: s-maj=14.7km s-min=9.8km az=106.5.
THR Error ellipse: s-maj=2.4km s-min=1.8km az=-1.0.
OMAN Error ellipse: s-maj=11.6km s-min=6.2km az=273.0.
DSN Error ellipse: s-maj=3.9km s-min=1.4km az=276.0.

(201) Irian Jaya

ISC	**I**	**27 09 09 01.2–.32**	**3.14S–.04**	**139.66E–.05**	**46**	**5.0s,4.8b**	**228**	**1-149**
IDC	I	27 09 08 54.8–.48	3.11S	139.66E	0	4.6,4.6		**¶15972649**
BJI	I	27 09 08 55.4	3.56S	139.95E	50	5.6b,5.6s		
MOS	I	27 09 08 57.9–.93	3.10S	139.54E	33	4.9b,5.6s		
ISCJB	I	27 09 09 59.7–.19	3.06S–.03	139.64E–.03	46	5.0s,4.8b		
DJA	I	27 09 09 01.7–.60	3S–5.0	140E–4.0	37–6	6.5b,6.3		
NEIC	I	27 09 09 02.0–.87	3.16S	139.50E	55–8	5.0b,6.3		

ISC Event type se.
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=140.0.
MOS Error ellipse: s-maj=11.3km s-min=6.4km az=101.9.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.8km az=159.1.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.7km az=69.0.

(173) Tonga Islands

ISC	**I**	**27 16 17 19.4–.28**	**19.41S–.06**	**173.33W–.05**	**25**	**5.1b,4.8s**	**631**	**6-172**
IDC	I	27 16 17 15.4–.48	19.39S	173.42W	0	5.0,4.9b		**¶16135958**
MOS	I	27 16 17 15.6–1.5	19.36S	173.44W	10	5.2b,4.6s		
BJI	I	27 16 17 16.8	19.21S	173.51W	11	5.6b,5.1b		
NEIC	I	27 16 17 17.1–.12	19.21S	173.50W	10	5.2b,5.1b		
ISCJB	I	27 16 17 18.0–.12	19.27S–.04	173.51W–.03	25	5.1b,4.8s		
GCMT	I	27 16 17 17.1–.20	19.42S	172.80W	14–0	5.1W,4.8s		

ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=13.2km az=149.0.
MOS Error ellipse: s-maj=10.8km s-min=8.3km az=46.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.2km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.0km az=143.4.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c71; s97,c150; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.23±.18 $M_{\theta\theta}$-0.89±.12; $M_{\phi\phi}$-4.34±.13; $M_{r\theta}$2.15±.31; $M_{\theta\phi}$-1.85±.09; $M_{\phi r}$1.69±.25; Best double couple: NP1:ϕ_s36.00000°,δ59.00000° ,λ103.00000°. NP2:ϕ_s192.00000°,δ34.00000°,λ70.00000°. Principal axes: T 6.0250,Plg73.0000°,Azm338.0000°; N -0.3340,Plg11.0000°,Azm209.0000° ; P -5.6900,Plg13.0000°,Azm117.0000° $M_0$5.85700×10^{16}

(705) Off west coast of northern Sumatera

ISC	**I**	**28 15 45 43.0–.47**	**1.97N–.04**	**96.71E–.04**	**24–2**	**4.9b,4.4s**	**320**	**1-145**
BJI	I	28 15 45 36.8	1.56N	96.70E	19	5.1b,4.8b		**¶15978011**
IDC	I	28 15 45 39.3–.61	1.97N	96.77E	0	4.5,4.5b		
NEIC	I	28 15 45 40.5–.32	1.98N	96.73E	10	5.0b,4.5b		
KLM	I	28 15 45 41.4	1.98N	96.35E	30	6.0s,5.0b		
MOS	I	28 15 45 42.4–1.2	2.00N	96.80E	33	5.2b,4.7s		
GCMT	I	28 15 45 42.5–.60	1.49N	96.55E	40–2	4.9W,4.7s		
ISCJB	I	28 15 45 42.2–.83	1.97N–.03	96.71E–.03	29–6	4.8b,4.4s		
DJA	I	28 15 45 44.2–.70	2N–2.0	97E–4.0	19–6	5.2b,4.8b		

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c50; s54,c75;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.20 $M_{\theta\theta}$-1.25±.13; $M_{\phi\phi}$-0.56±.15; $M_{r\theta}$0.85±.15; $M_{\theta\phi}$1.71±.12; $M_{\phi r}$-1.17±.20; Best double couple: NP1:ϕ_s141.00000°,δ62.00000°,λ104.00000°. NP2:ϕ_s293.00000°,δ31.00000°,λ65.00000°. Principal axes: T 2.2970,Plg69.0000°,Azm81.0000°; N 0.7530,Plg13.0000°,Azm315.0000° ; P -3.0580,Plg16.0000°,Azm221.0000° $M_0$2.67800×10^{16}
ISCJB Event type se.

(639) Jan Mayen Island region

ISC	**I**	**29 06 55 26.3–.43**	**70.87N–.02**	**6.91W–.02**	**6–2**	**6.0s,6.0b**	**3170**	**0-173**
IDC	I	29 06 55 24.9–.28	70.94N	6.99W	0	5.9,5.8		**¶15979160**
NAO	I	29 06 55 24.6–4.6	70.89N	6.71W	9–57	6.1L,5.8		
ISCJB	I	29 06 55 24.9–.05	70.886N–.01	7.03W–.02	10	6.0s,5.9b		
MOS	I	29 06 55 24.8–.90	70.93N	6.78W	10	6.1b,5.9s		
BJI	I	29 06 55 25.7	71.18N	6.50W	13	6.3s,6.0		
CSEM	I	29 06 55 25.6–.04	70.89N	6.89W	5	6.4s,6.2W		
GCMT	I	29 06 55 26.1–.10	70.99N	6.65W	17–0	6.2W,6.2W		
BER	I	29 06 55 26.0–2.5	70.79N	6.89W	10	6.1L,6.0L		
NEIC	I	29 06 55 26.0–.00	70.96N	6.78W	15	6.1L,6.0L		
NEIC	I	29 06 55 27.5–.07	70.93N	6.66W	15	6.5,6.2W		
REY	I	29 06 55 28.5	70.71N	8.39W	4	6.5,6.2W		
NEIC	I	29 06 55 34.5–.00	70.96N	6.90W	10	6.5,6.2W		

ISC Event type ke.
IDC Error ellipse: s-maj=8.7km s-min=6.8km az=38.0.
NAO Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=34.4.
MOS Error ellipse: s-maj=10.1km s-min=3.5km az=100.8.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.3km az=41.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c284; s140,c523;Duration: 3ŝ2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.34±.01 $M_{\theta\theta}$2.17±.02; $M_{\phi\phi}$-1.83±.01; $M_{r\theta}$-0.33±.04; $M_{\theta\phi}$1.79±.01; $M_{\phi r}$0.71±.04; Best double couple: NP1:ϕ_s113.00000°,δ78.00000°,λ-14.00000°. NP2:ϕ_s205.00000° ,δ77.00000°,λ-168.00000°. Principal axes: T 2.8550,Plg1.0000°,Azm159.0000° ; N -0.0890,Plg72.0000°,Azm252.0000°; P -2.7670,Plg18.0000°,Azm69.0000° $M_0$2.81100×10^{18}
BER Error ellipse: s-maj=6.7km s-min=12.3km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{18}Nm; M_{rr}0.21 $M_{\theta\theta}$1.66 $M_{\phi\phi}$-1.87 $M_{r\theta}$0.83 $M_{\theta\phi}$1.19 $M_{\phi r}$0.01 Best double couple: NP1:ϕ_s119.00000° ,δ79.00000°,λ19.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ168.00000°. Principal axes: T 2.3300,Plg21.0000°,Azm344.0000°; N -0.0700,Plg68.0000°,Azm148.0000° ; P -2.2600,Plg6.0000°,Azm252.0000° $M_0$2.30000×10^{18}
NEIC Event type se. Error ellipse: s-maj=2.5km s-min=1.5km az=213.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s83 Moment tensor: Scale 10^{18}Nm; M_{rr}0.12 $M_{\theta\theta}$1.15 $M_{\phi\phi}$-1.28 $M_{r\theta}$0.41 $M_{\theta\phi}$0.72 $M_{\phi r}$0.44 Best double couple: NP1:ϕ_s121.00000°,δ67.00000°,λ7.00000°. NP2: ϕ_s28.00000°,δ84.00000°,λ157.00000°. Principal axes: T 1.5300,Plg20.0000°,Azm342.0000° ; N 0.0000,Plg67.0000°,Azm194.0000°; P -1.5400,Plg11.0000°,Azm77.0000° $M_0$1.50000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ80.00000°,λ170.00000°. NP2:ϕ_s105.00000°,δ80.00000°,λ10.00000°. Principal axes: T Plg14.0000°,Azm329.0000°; N Plg0.0000°,Azm0.0000°; P Plg0.0000° ,Azm59.0000°
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.30 $M_{\theta\theta}$1.97 $M_{\phi\phi}$-1.66 $M_{r\theta}$-0.43 $M_{\theta\phi}$1.59 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s293.00000° ,δ60.00000°,λ-6.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ-150.00000°. Principal axes: T 2.8200,Plg17.0000°,Azm156.0000°; N -0.0700,Plg60.0000°,Azm35.0000° ; P -2.7500,Plg25.0000°,Azm254.0000° $M_0$2.80000×10^{18}

(691) Pacific-Antarctic Ridge

ISC	**I**	**29 11 58 18.5–.34**	**63.07S–.07**	**164.13W–.07**	**10**	**5.3s,5.1b**	**145**	**17-175**
ISCJB	I	29 11 58 16.3–.32	63.09S–.06	164.4W–.10	10	5.3s,5.1b		**¶15979848**
IDC	I	29 11 58 16.1–.54	62.77S	164.21W	0	5.1s,5.0		
GCMT	I	29 11 58 17.8–.10	63.21S	164.59W	12	5.6W,5.0		
NEIC	I	29 11 58 17.8–.25	62.96S	164.22W	10	5.5W,5.4s		
BJI	I	29 11 58 19.9	63.00S	164.20W	10	5.7b,5.5s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=38.7.
IDC Error ellipse: s-maj=26.3km s-min=15.6km az=23.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c148; s127,c280;Duration: 1ŝ5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.75±.03 $M_{\theta\theta}$3.02±.03; $M_{\phi\phi}$-2.27±.03; $M_{r\theta}$-0.69±.08; $M_{\theta\phi}$0.37±.03; $M_{\phi r}$0.46±.08; Best double couple: NP1: ϕ_s130.00000°,δ85.00000°,λ-19.00000°. NP2:ϕ_s221.00000°,δ71.00000°,λ-174.00000°. Principal axes: T 3.1570,Plg10.0000°,Azm177.0000°; N -0.6970,Plg70.0000°,Azm295.0000° ; P -2.4560,Plg17.0000°,Azm84.0000° $M_0$2.80600×10^{17}
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=36.0. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21 $M_{\theta\theta}$2.09 $M_{\phi\phi}$-1.88 $M_{r\theta}$0.11 $M_{\theta\phi}$0.69 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s36.00000°,δ80.00000°,λ-171.00000°. NP2:ϕ_s305.00000° ,δ81.00000°,λ-10.00000°. Principal axes: T 2.2100,Plg1.0000°,Azm350.0000° ; N -0.1000,Plg76.0000°,Azm84.0000°; P -2.1100,Plg14.0000°,Azm260.0000° $M_0$2.20000×10^{17}

(267) Halmahera

ISC	**I**	**30 16 41 25.0–.67**	**0.49N–.03**	**128.77E–.03**	**28–4**	**4.9b,4.1s**	**344**	**1-157**
BJI	I	30 16 41 15.8	0.11N	128.93E	5	5.1b,4.7b		**¶15981255**
IDC	I	30 16 41 19.9–.40	0.51N	128.61E	0	4.5,4.5		
ISCJB	I	30 16 41 21.7–.86	0.56N–.02	128.77E–.02	17–6	4.9b,4.2s		
NEIC	I	30 16 41 23.0–2.8	0.51N	128.63E	17–17	4.9b,4.2s		
GCMT	I	30 16 41 23.0–.20	0.53N	128.67E	18–1	5.0W,4.2s		
MOS	I	30 16 41 23.6–1.2	0.56N	128.70E	33	5.1b,4.2s		
DJA	I	30 16 41 24.9–.60	0N–1.0	129E–1.0	10–4	5.5b,5.0b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c34; s78,c114;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.05±.17 $M_{\theta\theta}$2.41±.10; $M_{\phi\phi}$-0.35±.11; $M_{r\theta}$2.41±.27; $M_{\theta\phi}$-0.47±.07; $M_{\phi r}$-1.99±.35; Best double couple: NP1:ϕ_s303.00000°,δ73.00000°,λ-73.00000°. NP2:ϕ_s76.00000°,δ24.00000°,λ-134.00000°. Principal axes: T 3.8580,Plg26.0000°,Azm20.0000°; N 0.0490,Plg16.0000°,Azm118.0000° ; P -3.9030,Plg58.0000°,Azm236.0000° $M_0$3.88000×10^{16}

(221) Kuril Islands

ISC	**I**	**31 19 49 22.1–1.7**	**44.35N–.06**	**148.39E–.09**	**47–14**	**3.6b**	**70**	**1-115**
NIED	I	31 19 49 00	44.10N	148.00E	38	3.6W		**¶17191431**
IDC	I	31 19 49 16.0–.82	44.49N	148.26E	0	3.8,3.6		
MOS	I	31 19 49 22.9–1.6	44.37N	148.26E	71	4.0b,3.6		
ISCJB	I	31 19 49 23.2–.86	44.39N–.05	148.22E–.08	65–6	3.4b,3.6		
JMA	I	31 19 49 23.4–.30	44.07N	148.00E	0	4.6,3.6		
SKHL	I	31 19 49 24.9–.70	44.37N	148.17E	85–4	5.8s,5.1b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ16.00000°,λ152.00000°. NP2:ϕ_s358.00000°,δ83.00000°,λ76.00000°. $M_0$3.23000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=21.0km az=138.0.
MOS Error ellipse: s-maj=15.4km s-min=13.1km az=117.4.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.6km az=35.7.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.

(703) Andaman Islands region

ISC	**II**	**01 13 39 47.2–.37**	**10.61N–.03**	**94.04E–.03**	**25–2**	**5.3b,5.1s**	**560**	**2-167**
IDC	II	01 13 39 43.2–.37	10.60N	94.10E	0	4.8,4.8s		**¶15995159**
BJI	II	01 13 39 44.0	10.59N	93.95E	21	5.5b,5.4s		
ISCJB	II	01 13 39 44.6–.58	10.62N–.02	94.08E–.02	18–4	5.2b,5.1s		
MOS	II	01 13 39 46.2–1.2	10.71N	94.11E	29	5.5b,5.0s		
NEIC	II	01 13 39 47.0–1.7	10.62N	94.11E	22–11	5.6W,5.5b		
GCMT	II	01 13 39 47.0–.10	10.62N	94.27E	12	5.5W,5.5b		
DJA	II	01 13 39 51.2–.40	11N–3.0	95E–5.0	10	5.8,5.7b		
BKK	II	01 13 39 55.2–.40	11N–2.0	95E–5.0	10	5.5b,5.5		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Bangkok, Thailand. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.29 $M_{\theta\theta}$-1.69 $M_{\phi\phi}$1.40 $M_{r\theta}$-0.30 $M_{\theta\phi}$2.24 $M_{\phi r}$-0.06 Best double couple: NP1: ϕ_s253.00000°,δ90.00000°,λ7.00000°. NP2:ϕ_s163.00000°,δ83.00000°,λ180.00000°.

Principal axes: T 2.5900,Plg5.0000°,Azm118.0000°; N 0.2900,Plg83.0000°,Azm256.0000° ; P -2.8800,Plg4.0000°,Azm28.0000° $M_0$2.70000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c158; s101,c230;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.73±.02 $M_{\theta\theta}$0.26±.02; $M_{\phi\phi}$0.47±.03; $M_{r\theta}$1.22±.06; $M_{\theta\phi}$1.35±.02; $M_{\phi r}$-0.05±.06; Best double couple: NP1:ϕ_s259.00000°,δ75.00000°,λ-47.00000°. NP2:ϕ_s5.00000° ,δ45.00000°,λ-158.00000°. Principal axes: T 1.9790,Plg18.0000°,Azm318.0000° ; N -0.1000,Plg41.0000°,Azm65.0000°; P -1.8790,Plg43.0000°,Azm211.0000° $M_0$1.92900×10^{17}

(12) Alaska Peninsula

ISC	**II**	**02 00 38 17.3–.17**	**54.93N–.03**	**160.50W–.02**	**39–1**	**5.9b,5.6s**	**2398**	**0-164**
BJI	II	02 00 38 16.6	55.20N	161.10W	31	6.1b,5.9s		**¶15996065**
NEIC	II	02 00 38 17.8–.11	54.97N	160.47W	35	6.0,5.9W		
NEIC	II	02 00 38 17.0–.00	54.98N	160.43W	35	6.0,5.9W		
MOS	II	02 00 38 17.1–1.1	55.15N	160.47W	47	6.2b,5.6s		
ISCJB	II	02 00 38 17.9–.20	55.02N–.01	160.40W–.01	52–1	5.9b,5.6s		
IDC	II	02 00 38 19.4–.52	55.00N	160.44W	54–3	5.5,5.5		
GCMT	II	02 00 38 19.7–.10	54.76N	160.20W	50–0	5.9W,5.5		

ISC Event type fe.

NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=174.0. Felt [IV] at Sand Point. Also felt at Anchorage, Chignik and Cold Bay. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s44 Moment tensor: Scale 10^{17}Nm; M_{rr}3.55 $M_{\theta\theta}$-3.66 $M_{\phi\phi}$0.10 $M_{r\theta}$2.98 $M_{\theta\phi}$-2.84 $M_{\phi r}$1.09 Best double couple: NP1:ϕ_s231.00000°,δ28.00000°,λ74.00000°. NP2:ϕ_s69.00000° ,δ63.00000°,λ98.00000°. Principal axes: T 4.6200,Plg71.0000°,Azm357.0000° ; N 1.5700,Plg7.0000°,Azm245.0000°; P -6.2000,Plg18.0000°,Azm153.0000° $M_0$5.60000×10^{17}

NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}6.51 $M_{\theta\theta}$-5.50 $M_{\phi\phi}$-1.01 $M_{r\theta}$5.43 $M_{\theta\phi}$-3.38 $M_{\phi r}$4.11 Best double couple: NP1:ϕ_s55.00000° ,δ67.00000°,λ84.00000°. NP2:ϕ_s249.00000°,δ23.00000°,λ103.00000°. Principal axes: T 9.4000,Plg67.0000°,Azm315.0000°; N 0.7000,Plg5.0000°,Azm57.0000° ; P -10.1000,Plg22.0000°,Azm150.0000° $M_0$9.70000×10^{17}

MOS Error ellipse: s-maj=6.6km s-min=4.9km az=69.5.

ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.4km az=10.0.

IDC Error ellipse: s-maj=10.0km s-min=5.2km az=8.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c292; s138,c402;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.72±.01 $M_{\theta\theta}$-0.62±.01; $M_{\phi\phi}$-0.10±.01; $M_{r\theta}$0.47±.01; $M_{\theta\phi}$-0.37±.01; $M_{\phi r}$0.24±.01; Best double couple: NP1:ϕ_s62.00000° ,δ62.00000°,λ90.00000°. NP2:ϕ_s242.00000°,δ28.00000°,λ90.00000°. Principal axes: T 0.8860,Plg73.0000°,Azm332.0000°; N 0.0950,Plg0.0000°,Azm62.0000° ; P -0.9810,Plg17.0000°,Azm152.0000° $M_0$0.93400×10^{18}

(186) Vanuatu Islands

ISC	**II**	**03 03 22 57.4–.37**	**14.59S–.04**	**166.64E–.04**	**49–2**	**5.2b,4.6s**	**736**	**7-169**
NEIC	II	03 03 22 54.0–.14	14.52S	166.66E	24	5.3b,5.2W		**¶16168796**
GCMT	II	03 03 22 54.0–.20	14.59S	166.67E	27–0	5.3W,5.2W		
ISCJB	II	03 03 22 54.7–.98	14.54S–.03	166.62E–.02	40–8	5.2b,4.6s		
IDC	II	03 03 22 54.9–3.7	14.54S	166.62E	29–25	5.1,5.0		
BJI	II	03 03 22 55.7	14.50S	166.85E	55	5.1b,5.1s		
MOS	II	03 03 22 56.8–2.0	14.41S	166.59E	46	5.5b,5.1s		

ISC Event type se.

NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=144.0. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.09 $M_{\theta\theta}$4.34 $M_{\phi\phi}$-0.24 $M_{r\theta}$2.78 $M_{\theta\phi}$-3.77 $M_{\phi r}$-3.28 Best double couple: NP1:ϕ_s318.00000°,δ67.00000°,λ-69.00000°. NP2:ϕ_s94.00000° ,δ31.00000°,λ-130.00000°. Principal axes: T 7.8500,Plg19.0000°,Azm32.0000° ; N -1.8300,Plg19.0000°,Azm129.0000°; P -6.0100,Plg62.0000°,Azm261.0000° $M_0$7.10000×10^{16}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c88; s89,c127; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00±.02 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$0.04±.01; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$0.11±.01; $M_{\phi r}$-1.08±.05; Best double couple: NP1:ϕ_s153.00000°,δ89.00000° ,λ95.00000°. NP2:ϕ_s252.00000°,δ5.00000°,λ9.00000°. Principal axes: T 1.1880,Plg46.0000° ,Azm68.0000°; N 0.0620,Plg5.0000°,Azm333.0000°; P -1.2500,Plg44.0000°,Azm239.0000° $M_0$1.21900×10^{17}

ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.9km az=174.1.

IDC Error ellipse: s-maj=15.8km s-min=11.8km az=96.0.

MOS Error ellipse: s-maj=7.4km s-min=7.1km az=70.7.

(705) Off west coast of northern Sumatera

ISC	**II**	**03 05 39 37.2–.44**	**3.44N–.05**	**95.78E–.05**	**38**	**4.7b,3.9s**	**193**	**1-146**
KLM	II	03 05 39 25.8	3.63N	94.94E	35	5.8s,4.5b		**¶16000621**
IDC	II	03 05 39 31.5–.72	3.51N	95.86E	0	4.5,4.4b		
BJI	II	03 05 39 32.3	3.11N	95.52E	42	5.0b,4.5b		
ISCJB	II	03 05 39 35.4–.26	3.42N–.04	95.78E–.03	38	4.6b,3.8s		
NEIC	II	03 05 39 36.6–.23	3.45N	95.74E	35	4.7b,3.8s		
DJA	II	03 05 39 36.3–1.5	3N–4.0	96E–12	16–12	5.6,5.0b		
MOS	II	03 05 39 39.0–.93	3.61N	95.98E	66	4.8b,5.0b		

ISC Event type se.

IDC Error ellipse: s-maj=26.0km s-min=16.7km az=44.0.

ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.6km az=33.2.

NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=218.0.

MOS Error ellipse: s-maj=12.5km s-min=6.3km az=114.4.

(162) South Island

ISC	**II**	**03 18 32 51.0–.78**	**43.26S–.03**	**172.10E–.03**	**20–2**	**4.1b**	**108**	**0-149**
ISCJB	II	03 18 32 48.9–.44	43.32S–.05	172.20E–.06	23–4	3.9b		**¶16005318**
BJI	II	03 18 32 48.4	43.07S	172.08E	12	5.9b,5.5s		
IDC	II	03 18 32 50.7–1.6	43.24S	172.02E	0	3.9,3.6		
NEIC	II	03 18 32 50.6	43.16S	172.03E	9	4.5L,4.1W		
WEL	II	03 18 32 50.5–.14	43.16S	172.02E	8–1	4.4L,4.2W		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=3.6km az=44.7.

IDC Error ellipse: s-maj=45.1km s-min=12.5km az=139.0.

NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s35 Moment tensor: Scale 10^{15}Nm; M_{rr}0.06 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.44 $M_{r\theta}$-0.05 $M_{\theta\phi}$-0.96 $M_{\phi r}$0.50 Best double couple: NP1:ϕ_s243.00000°,δ75.00000°,λ-175.00000°. NP2:ϕ_s152.00000°,δ85.00000°,λ-15.00000°. Principal axes: T 1.6900,Plg7.0000°,Azm198.0000°; N 0.1500,Plg74.0000°,Azm315.0000° ; P -1.8500,Plg14.0000°,Azm106.0000° $M_0$1.80000×10^{15}

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the Canterbury region, Maximum reported intensity MM 5.

(173) Tonga Islands

ISC	**II**	**03 20 25 17.9–.52**	**15.62S–.06**	**172.95W–.05**	**24–3**	**5.7s,5.3b**	**698**	**2-174**
ISCJB	II	03 20 25 14.4–.12	15.53S–.03	173.07W–.03	10	5.6s,5.2b		**¶16002871**
IDC	II	03 20 25 14.3–.40	15.37S	173.13W	0	5.5s,5.5		
BJI	II	03 20 25 14.8	14.97S	172.69W	8	6.1b,5.7s		
GCMT	II	03 20 25 15.9–.10	15.50S	172.62W	19–0	5.9W,5.7s		
NEIC	II	03 20 25 15.9–.13	15.51S	173.07W	10	6.0W,5.9W		
NEIC	II	03 20 25 15.0–.00	15.51S	173.09W	15	6.0W,5.9W		
MOS	II	03 20 25 19.3–1.0	15.22S	173.05W	33	5.6s,5.3b		
NEIC	II	03 20 25 41.8–.00	15.04S	173.19W	10	5.6s,5.3b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.2km az=146.1.

IDC Error ellipse: s-maj=18.0km s-min=12.3km az=130.0.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c276; s137,c424;Duration: 2s2 Moment tensor: Scale 10^{18} Nm; M_{rr}0.74±.01 $M_{\theta\theta}$0.00±.01; $M_{\phi\phi}$-0.74±.01; $M_{r\theta}$0.04±.01; $M_{\theta\phi}$0.14±.00; $M_{\phi r}$0.44±.01; Best double couple: NP1:ϕ_s358.00000°,δ60.00000°,λ98.00000°. NP2:ϕ_s162.00000° ,δ31.00000°,λ76.00000°. Principal axes: T 0.8670,Plg74.0000°,Azm288.0000° ; N 0.0140,Plg7.0000°,Azm174.0000°; P -0.8820,Plg15.0000°,Azm82.0000° $M_0$0.87400×10^{18}

NEIC Event type se. Error ellipse: s-maj=6.7km s-min=3.3km az=134.0. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}2.07 $M_{\theta\theta}$2.35 $M_{\phi\phi}$-4.43 $M_{r\theta}$0.86 $M_{\theta\phi}$0.87 $M_{\phi r}$3.65 Best double couple: NP1:ϕ_s134.00000°,δ33.00000°,λ30.00000°. NP2:ϕ_s19.00000° ,δ74.00000°,λ119.00000°. Principal axes: T 4.3600,Plg52.0000°,Azm323.0000° ; N 1.7200,Plg28.0000°,Azm190.0000°; P -6.0900,Plg24.0000°,Azm87.0000° $M_0$5.40000×10^{17}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ68.00000° ,λ77.00000°. NP2:ϕ_s190.00000°,δ24.00000°,λ119.00000°. Principal axes: T 0.9600,Plg64.0000°,Azm228.0000°; N 0.0900,Plg12.0000°,Azm343.0000° ; P -1.0500,Plg23.0000°,Azm78.0000°

MOS Error ellipse: s-maj=10.6km s-min=7.2km az=76.1.

NEIC Event type se. Moment Tensor Solution. s40 Moment tensor: Scale 10^{18}Nm; M_{rr}0.61 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-0.64 $M_{r\theta}$0.15 $M_{\theta\phi}$0.08 $M_{\phi r}$1.15 Best double couple: NP1:ϕ_s161.00000° ,δ15.00000°,λ66.00000°. NP2:ϕ_s6.00000°,δ76.00000°,λ96.00000°. Principal axes: T 1.3100,Plg58.0000°,Azm284.0000°; N 0.0200,Plg6.0000°,Azm184.0000° ; P -1.3300,Plg31.0000°,Azm90.0000° $M_0$1.30000×10^{18}

(290) Timor Sea

ISC	**II**	**03 20 42 59.2–.54**	**6.83S–.05**	**130.80E–.10**	**47**	**3.9b**	**39**	**1-150**
DJA	II	03 20 42 49.8–.70	8S–4.0	129E–6.0	10	5.6b,5.4b		**¶16328663**
IDC	II	03 20 42 53.6–.82	6.54S	130.83E	0	4.8L,4.4		
ISCJB	II	03 20 42 57.6–.43	6.74S–.05	130.7E–.10	47	4.0b,4.4		
NEIC	II	03 20 43 01.2–1.1	6.71S	130.90E	63–11	4.2b,4.4		

ISC Event type se.

IDC Error ellipse: s-maj=39.5km s-min=19.5km az=77.0.

ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=6.1km az=169.4.

NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.7km az=87.0.

(238) Ryukyu Islands

ISC	**II**	**04 11 15 45.7–.31**	**29.23N–.03**	**130.38E–.03**	**46–2**	**5.6b,4.7s**	**1379**	**1-173**
NIED	II	04 11 15 00	29.20N	130.30E	35	5.3W,4.7s		**¶16003937**
BJI	II	04 11 15 39.8	28.97N	130.61E	35	5.2b,5.2b		
ISCJB	II	04 11 15 43.6–.26	29.24N–.01	130.29E–.02	37–2	5.5b,4.7s		
MOS	II	04 11 15 44.0–1.2	29.22N	130.25E	44	5.8b,4.4s		
JMA	II	04 11 15 44.7	29.21N	130.31E	72–2	5.0,4.4s		
NEIC	II	04 11 15 45.5–.37	29.18N	130.23E	42–3	5.7b,4.4s		
GCMT	II	04 11 15 45.5–.20	29.19N	130.37E	31–1	5.3W,4.4s		
IDC	II	04 11 15 45.9–.51	29.27N	130.22E	46–5	5.3,5.1		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ12.00000°,λ-66.00000°. NP2:ϕ_s188.00000°,δ79.00000°,λ-95.00000°. $M_0$1.13000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=139.1.

MOS Error ellipse: s-maj=5.7km s-min=3.6km az=103.2.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=133.0. Felt at Naha, Okinawa. Recorded [3 JMA] on Nakano-shima and Suwanose-jima; [2 JMA] on Akuseki-shima and Amami-oshima; [1 JMA] on Kikaiga-shima, Tanega-shima and Yaku-shima. Recorded [1 JMA] in Kagoshima, Kyushu.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s58,c91; s100,c175;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.02 $M_{\theta\theta}$0.06±.01; $M_{\phi\phi}$0.26±.02; $M_{r\theta}$0.15±.02; $M_{\theta\phi}$0.32±.01; $M_{\phi r}$1.03±.06; Best double couple: NP1:ϕ_s190.00000° ,δ81.00000°,λ-104.00000°. NP2:ϕ_s67.00000°,δ16.00000°,λ-34.00000°. Principal axes: T 1.1520,Plg35.0000°,Azm292.0000°; N -0.0490,Plg13.0000°,Azm192.0000° ; P -1.1030,Plg52.0000°,Azm84.0000° $M_0$1.12700×10^{17}

IDC Error ellipse: s-maj=8.8km s-min=6.2km az=101.0.

(186) Vanuatu Islands

ISC	**II**	**04 14 21 00.7–.51**	**14.22S–.04**	**166.45E–.04**	**47–4**	**5.5b,5.5s**	**618**	**8-169**
IDC	II	04 14 20 54.0–.31	14.18S	166.59E	0	5.5,5.5s		**¶16168798**
NEIC	II	04 14 20 55.5–.14	14.19S	166.46E	10	5.8b,5.5s		
GCMT	II	04 14 20 56.4–.10	14.18S	166.39E	16–0	5.9W,5.5s		
ISCJB	II	04 14 20 57.3–1.7	14.25S–.03	166.45E–.03	30–11	5.5s,5.5b		
MOS	II	04 14 20 58.5–1.1	14.08S	166.40E	34	5.8b,5.6s		
BJI	II	04 14 21 01.6	13.68S	166.35E	45	5.9b,5.8s		

ISC Event type se.

IDC Error ellipse: s-maj=13.9km s-min=11.2km az=85.0.

NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.3km az=75.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c198; s129,c410;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.97±.01 $M_{\theta\theta}$-0.65±.01; $M_{\phi\phi}$-0.31±.01; $M_{r\theta}$-0.15±.03; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$-0.03±.03; Best double couple: NP1: ϕ_s297.00000°,δ49.00000°,λ83.00000°. NP2:ϕ_s127.00000°,δ42.00000°,λ98.00000°. Principal axes: T 0.9860,Plg84.0000°,Azm154.0000°; N -0.1090,Plg5.0000°,Azm301.0000° ; P -0.8770,Plg3.0000°,Azm32.0000° $M_0$0.93200×10^{18}

ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.8km az=44.2.

MOS Error ellipse: s-maj=7.9km s-min=6.7km az=125.3.

(135) Near coast of central Chile

ISC	**II**	**05 16 11 38.9–.25**	**37.65S–.04**	**73.48W–.05**	**23**	**5.4s,5.3b**	**622**	**1-177**
GUC	II	05 16 11 34.7–.71	37.76S	74.09W	27–4	5.5L,5.3b		**¶16007307**
IDC	II	05 16 11 35.2–.49	37.66S	73.49W	0	5.4,5.4s		
ISCJB	II	05 16 11 37.4–.17	37.69S–.03	73.45W–.05	23	5.4s,5.2b		
BJI	II	05 16 11 37.8	37.67S	73.88W	24	5.7s,5.6		
NEIC	II	05 16 11 38.0–.00	37.61S	73.38W	15	5.7s,5.6		
GCMT	II	05 16 11 39.7–.10	37.81S	73.84W	21–0	5.7W,5.6		
MOS	II	05 16 11 39.6–1.4	37.56S	73.51W	33	5.5s,5.4b		
NEIC	II	05 16 11 39.7–.93	37.62S	73.45W	29–6	5.8W,5.6W		

ISC Event type fe.

GUC Error ellipse: s-maj=2.7km s-min=8.9km az=-1.0.

IDC Error ellipse: s-maj=18.7km s-min=11.8km az=76.0.

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.4km az=155.3.

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}2.55 $M_{\theta\theta}$0.22 $M_{\phi\phi}$-2.77 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.38 $M_{\phi r}$-5.68 Best double couple: NP1:ϕ_s181.00000° ,δ77.00000°,λ87.00000°. NP2:ϕ_s14.00000°,δ12.00000°,λ102.00000°. Principal axes: T 6.1600,Plg57.0000°,Azm88.0000°; N 0.2400,Plg3.0000°,Azm182.0000° ; P -6.4000,Plg32.0000°,Azm274.0000° $M_0$6.30000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s102,c170; s122,c260;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.31±.04 $M_{\theta\theta}$-0.02±.03; $M_{\phi\phi}$-2.29±.03; $M_{r\theta}$0.03±.05; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$-3.46±.11; Best double couple: NP1: ϕ_s180.00000°,δ73.00000°,λ88.00000°. NP2:ϕ_s9.00000°,δ17.00000°,λ98.00000°. Principal axes: T 4.1680,Plg62.0000°,Azm87.0000°; N -0.0180,Plg2.0000°,Azm181.0000° ; P -4.1500,Plg28.0000°,Azm272.0000° $M_0$4.15900×10^{17}

MOS Error ellipse: s-maj=16.1km s-min=7.6km az=100.1.

NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=5.9km az=59.0. Felt [V] at Angol, Canete, Concepcion, Los Alamos, Padre Las Casas, Renaico, Puerto Saavedra, San Pedro de la Paz, Temuco and Tolten; [IV] at Cabrero, Chiguayante, Coronel, Curanilahue, Hualpen, La Laja, Lebu, Los Angeles, Nacimiento, Parral, Penco, San Rosendo, Santa Barbara, Talcahuano, Tirua, Tome and Yumbel; [III] at Curacautin, Florida and Linares; [II] at Cauquenes and Romeral. Also felt at Arauco, Chillan and Santiago. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}1.69 $M_{\theta\theta}$0.49 $M_{\phi\phi}$-2.19 $M_{r\theta}$0.06 $M_{\theta\phi}$0.41 $M_{\phi r}$-2.38 Best double couple: NP1:ϕ_s178.00000°,δ70.00000°,λ96.00000°. NP2:ϕ_s342.00000° ,δ20.00000°,λ75.00000°. Principal axes: T 2.8300,Plg64.0000°,Azm97.0000° ; N 0.5300,Plg5.0000°,Azm356.0000°; P -3.3600,Plg25.0000°,Azm264.0000° $M_0$3.10000×10^{17}

(273) Southwest of Sumatera

ISC	**II**	**06 11 21 17.5–.48**	**8.26S–.03**	**104.11E–.03**	**15–2**	**5.6b,5.3s**	**1406**	**2-172**
ISCJB	II	06 11 21 14.0–.57	8.27S–.02	104.10E–.02	4–3	5.6b,5.2s		**¶16007698**
IDC	II	06 11 21 15.0–.33	8.25S	104.19E	0	5.3,5.3b		
BJI	II	06 11 21 15.3	8.30S	104.10E	13	5.8b,5.7s		
NEIC	II	06 11 21 16.3–.12	8.28S	104.07E	7	5.6,5.6W		
DJA	II	06 11 21 17.8–.10	8S–2.0	104E–1.0	10	6.0b,5.9		
GCMT	II	06 11 21 17.3–.10	8.47S	104.05E	12	5.7W,5.9		
MOS	II	06 11 21 18.1–.97	7.99S	103.97E	19	5.8b,5.3s		
KLM	II	06 11 21 19.3	8.17S	104.07E	28	6.2s,5.7b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.6km az=22.9.

IDC Error ellipse: s-maj=12.0km s-min=9.3km az=52.0.

NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=30.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13 $M_{\theta\theta}$1.97 $M_{\phi\phi}$-2.10 $M_{r\theta}$2.34 $M_{\theta\phi}$-0.76 $M_{\phi r}$-1.15 Best double couple: NP1:ϕ_s142.00000°,δ85.00000°,λ46.00000°. NP2: ϕ_s47.00000°,δ44.00000°,λ173.00000°. Principal axes: T 3.8400,Plg35.0000°,Azm15.0000° ; N -1.2400,Plg44.0000°,Azm147.0000°; P -2.6000,Plg26.0000°,Azm265.0000° $M_0$3.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s142.00000°,δ52.00000°,λ-161.00000°. NP2:ϕ_s40.00000°,δ75.00000°,λ-40.00000°. Principal axes: T Plg15.0000°,Azm96.0000°; N Plg0.0000°,Azm0.0000°; P Plg38.0000° ,Azm354.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s98,c180; s113,c325;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.93±.04 $M_{\theta\theta}$3.21±.03; $M_{\phi\phi}$-0.28±.04; $M_{r\theta}$0.33±.10; $M_{\theta\phi}$-3.01±.03; $M_{\phi r}$-0.77±.12; Best double couple: NP1: ϕ_s320.00000°,δ54.00000°,λ-61.00000°. NP2:ϕ_s97.00000°,δ45.00000°,λ-123.00000°. Principal axes: T 5.0010,Plg5.0000°,Azm30.0000°; N -1.8050,Plg23.0000°,Azm122.0000° ; P -3.1960,Plg67.0000°,Azm289.0000° $M_0$4.09900×10^{17}

MOS Error ellipse: s-maj=7.8km s-min=4.4km az=112.0.

(282) South of Jawa

ISC	**II**	**08 15 27 00.9–.40**	**10.07S–.04**	**113.87E–.04**	**59–2**	**5.3b,5.1s**	**636**	**2-154**

MOS	II	08 15 26 57.2–.77	9.84S	113.97E	36	5.7b,5.0s		¶16012711
BJI	II	08 15 26 59.0	10.00S	113.90E	56	5.5b,5.4b		
NEIC	II	08 15 27 00.1–.49	10.00S	113.88E	50–4	5.3b,5.4b		
DJA	II	08 15 27 00.5–.30	10S–3.0	114E–1.0	62–3	5.9,5.8b		
GCMT	II	08 15 27 00.1–.20	10.17S	113.86E	48–1	5.2W,5.8b		
ISCJB	II	08 15 27 00.5–.34	10.06S–.02	113.82E–.02	72–2	5.2b,5.8b		
IDC	II	08 15 27 01.8–2.4	9.89S	113.95E	63–22	5.1,4.8		

ISC Event type fe.

MOS Error ellipse: s-maj=9.8km s-min=5.8km az=115.2.

NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=208.0. Felt [III] at Karangkates. Also felt at Malang. Felt [II] at Denpasar, Kuta and Ubud, Bali.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c58; s96,c152; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.87±.24 $M_{\theta\theta}$3.31±.18; $M_{\phi\phi}$-5.19±.20; $M_{r\theta}$4.04±.17; $M_{\theta\phi}$-4.97±.16; $M_{\phi r}$-1.71±.18; Best double couple: NP1:ϕ_s65.00000°,δ68.00000°,λ154.00000°. NP2:ϕ_s165.00000°,δ66.00000°,λ24.00000°. Principal axes: T 8.5000,Plg33.0000°,Azm24.0000°; N -1.0280,Plg56.0000°,Azm207.0000°; P -7.4820,Plg1.0000°,Azm115.0000° $M_0$7.99100×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=18.2.

IDC Error ellipse: s-maj=13.2km s-min=9.8km az=66.0.

(212) Bonin Islands region

ISC	**II**	**08 16 42 44.1–.31**	**27.39N–.03**	**143.12E–.04**	**33–1**	**5.4b,5.1s**	**952 1-151**	
NIED	II	08 16 42 00	27.40N	143.40E	8	5.4W,5.1s		¶16012718
IDC	II	08 16 42 38.9–.43	27.35N	143.19E	0	5.0,5.0		
JMA	II	08 16 42 39.8–.10	27.42N	143.45E	51	5.2,5.0		
NEIC	II	08 16 42 40.6–.11	27.30N	143.16E	10	5.4b,5.1s		
GCMT	II	08 16 42 40.6–.10	27.33N	143.26E	12	5.3W,5.1s		
MOS	II	08 16 42 41.7–1.1	27.40N	143.07E	26	5.6b,5.2s		
BJI	II	08 16 42 43.6	27.44N	142.84E	37	5.4b,5.3s		
ISCJB	II	08 16 42 45.1–.11	27.48N–.02	142.97E–.02	49	5.3b,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ30.00000°,λ-61.00000°. NP2:ϕ_s326.00000°,δ64.00000°,λ-106.00000°. $M_0$1.28000×10^{17}

JMA Event type fe.

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c146; s134,c251;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$1.21±.01; $M_{r\theta}$0.24±.04; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s341.00000°,δ50.00000°,λ-102.00000°. NP2:ϕ_s179.00000°,δ41.00000°,λ-76.00000°. Principal axes: T 1.2670,Plg5.0000°,Azm79.0000°; N 0.0470,Plg9.0000°,Azm348.0000°; P -1.3110,Plg80.0000°,Azm197.0000° $M_0$1.28900×10^{17}

ISCJB Event type fe.

(115) Near coast of Peru

ISC	**II**	**08 22 01 16.3–.39**	**16.85S–.05**	**73.73W–.05**	**26**	**4.8b,4.1s**	**125 2-176**	
SCB	II	08 22 00 51.9–1.1	16.58S	75.37W	31	5.0L,4.1s		¶16016436
IDC	II	08 22 01 12.8–.64	16.69S	73.59W	0	4.5,4.4		
ISCJB	II	08 22 01 14.6–.30	16.79S–.05	73.71W–.05	26	4.7b,4.0s		
NEIC	II	08 22 01 16.1–.90	16.79S	73.72W	21–6	5.0b,4.0s		
BJI	II	08 22 01 18.0	16.80S	73.60W	31	5.5b,5.5s		

ISC Event type fe.

SCB Event type ke. Error ellipse: s-maj=145.3km s-min=22.8km az=175.0.

IDC Error ellipse: s-maj=21.6km s-min=13.3km az=41.0.

ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=136.1.

NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=6.4km az=51.0. Felt at Camana.

(30) Off coast of Oregon

ISC	**II**	**08 22 02 01.5–.55**	**43.45N–.04**	**127.35W–.04**	**12–2**	**5.0b,4.6s**	**512 2-154**	
BJI	II	08 22 01 56.6	43.40N	127.10W	10	5.5b,5.4s		¶16013109
MOS	II	08 22 01 59.7–1.1	43.55N	127.29W	10	5.2b,4.6s		
IDC	II	08 22 01 59.0–.52	43.46N	127.31W	0	4.7,4.6		
GCMT	II	08 22 02 01.9–.20	43.31N	127.48W	18–0	5.4W,4.6		
ISCJB	II	08 22 02 01.6–.71	43.53N–.02	127.20W–.02	20–5	4.9b,4.6s		
NEIC	II	08 22 02 01.9–.20	43.54N	127.31W	10	5.1b,4.6s		

ISC Event type fe.

MOS Error ellipse: s-maj=5.6km s-min=4.4km az=113.0.

IDC Error ellipse: s-maj=15.0km s-min=7.0km az=38.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c142; s125,c242; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.06±.02 $M_{\theta\theta}$-0.96±.02; $M_{\phi\phi}$1.02±.02; $M_{r\theta}$-0.13±.04; $M_{\theta\phi}$-1.06±.02; $M_{\phi r}$-0.14±.04; Best double couple: NP1:ϕ_s21.00000°,δ87.00000°,λ-7.00000°. NP2:ϕ_s112.00000°,δ83.00000°,λ-177.00000°. Principal axes: T 1.4850,Plg3.0000°,Azm67.0000°; N -0.0460,Plg82.0000°,Azm179.0000°; P -1.4420,Plg7.0000°,Azm336.0000° $M_0$1.46300×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=144.8.

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=219.0. Felt at Coos Bay and Gold Beach.

(326) Southwestern Siberia

ISC	**II**	**10 05 35 17.0–.31**	**52.20N–.03**	**91.67E–.02**	**14–1**	**5.3b,5.1s**	**1273 1-163**	
BJI	II	10 05 35 12.8	52.26N	91.68E	7	5.9L,5.9s		¶16018376
NNC	II	10 05 35 12.8–2.9	52.40N	91.87E	0	6.0,5.8b		
IDC	II	10 05 35 14.4–.37	52.18N	91.86E	0	5.0,5.0		
MOS	II	10 05 35 14.7–1.1	52.13N	91.76E	10	5.5b,5.1s		
NEIC	II	10 05 35 16.5–.10	52.14N	91.78E	10	5.4b,5.3W		
GCMT	II	10 05 35 16.5–.10	52.22N	91.76E	26–0	5.5W,5.3W		
ASRS	II	10 05 35 16.1–.26	52.23N	91.79E	15	5.6s,5.3W		
ISCJB	II	10 05 35 16.2–.07	52.15N–.01	91.77E–.02	18	5.3b,5.1s		
OBM	II	10 05 35 17.0–.09	52.04N	91.99E	2	5.8L,5.1s		

ISC Event type fe.

NNC Event type se. Error ellipse: s-maj=30.8km s-min=22.8km az=57.0.

IDC Error ellipse: s-maj=10.9km s-min=6.6km az=175.0.

MOS Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=121.3. Felt (III-IV) at Abakan, Minusinsk, Sayanogorsk; (III) at Kansk, Kemerovo, Krasnoyarsk, Novokuznetsk; (II-III) at Barnaul, Novosibirsk, Tomsk. Moment Tensor Solution.

NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.2km az=176.0. Felt [IV] at Sayanogorsk; [III] at Abakan, Minusinsk and Novokuznetsk; [II] at Barnaul, Biysk, Kemerovo, Krasnoyarsk, Novosibirsk and Tomsk. Also felt at Abaza, Belovo, Berdsk, Chernogorsk, Cheryomushki, Kol'tsovo, Kyzyl, Mezhdurechensk and Sosnovoborsk. Felt at Oskemen, Kazakhstan. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.46 $M_{\theta\theta}$-0.94 $M_{\phi\phi}$0.48 $M_{r\theta}$0.05 $M_{\theta\phi}$1.05 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s342.00000°,δ79.00000°,λ167.00000°. NP2:ϕ_s74.00000°,δ77.00000°,λ11.00000°. Principal axes: T 1.1000,Plg17.0000°,Azm298.0000°; N 0.4000,Plg73.0000°,Azm122.0000°; P -1.5000,Plg1.0000°,Azm28.0000° $M_0$1.30000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c166; s125,c242; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13±.03 $M_{\theta\theta}$-1.21±.02; $M_{\phi\phi}$1.08±.03; $M_{r\theta}$0.23±.05; $M_{\theta\phi}$1.45±.02; $M_{\phi r}$-0.35±.05; Best double couple: NP1:ϕ_s341.00000°,δ88.00000°,λ-168.00000°. NP2:ϕ_s251.00000°,δ78.00000°,λ-2.00000°. Principal axes: T 1.8100,Plg7.0000°,Azm115.0000°; N 0.1620,Plg78.0000°,Azm349.0000°; P -1.9750,Plg10.0000°,Azm206.0000° $M_0$1.89200×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.7km az=5.7.

OBM Error ellipse: s-maj=1.6km s-min=0.7km az=171.0.

(228) Near east coast of eastern Honshu

ISC	**II**	**10 13 03 03.5–.18**	**37.18N–.02**	**141.34E–.03**	**39–2**	**5.5b,4.9s**	**1792 0-164**	
NIED	II	10 13 03 00	37.20N	141.40E	41	5.4W,4.9s		¶16019939
BJI	II	10 13 03 00.2	37.04N	141.41E	37	5.4b,5.3b		
NEIC	II	10 13 03 02.6–.10	37.15N	141.28E	33	5.5b,5.3W		
MOS	II	10 13 03 02.8–.81	37.42N	141.33E	36	5.7b,5.0s		
GCMT	II	10 13 03 02.6–.10	37.18N	141.55E	43–0	5.4W,5.0s		
IDC	II	10 13 03 03.5–.34	37.15N	141.36E	35–2	5.3,5.2		
JMA	II	10 13 03 03.6–.10	37.16N	141.41E	48–1	5.4,5.2		
ISCJB	II	10 13 03 03.7–.24	37.16N–.02	141.33E–.02	52–1	5.5b,4.9s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ19.00000°,λ96.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ88.00000°. $M_0$1.43000×10^{17}

NEIC Event type fe. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [4 JMA] in Fukushima; [3 JMA] in Ibaraki, Miyagi and Tochigi; [2 JMA] in Aomori, Chiba, Gumma, Iwate, Niigata, Saitama and Yamagata; [1 JMA] in Akita, Gifu, Kanagawa, Nagano, Shizuoka, Tokyo and Yamanashi. Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ28.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ64.00000°,λ80.00000°. Principal axes: T 0.9500,Plg69.0000°,Azm269.0000°; N 0.4900,Plg9.0000°,Azm24.0000°; P -1.4400,Plg19.0000°,Azm118.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c187; s115,c233;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.34±.02 $M_{\theta\theta}$-0.21±.02; $M_{\phi\phi}$-1.12±.02; $M_{r\theta}$0.43±.02; $M_{\theta\phi}$-0.58±.01; $M_{\phi r}$0.94±.02; Best double couple: NP1:ϕ_s25.00000°,δ64.00000°,λ89.00000°. NP2:ϕ_s207.00000°,δ26.00000°,λ91.00000°. Principal axes: T 1.6860,Plg71.0000°,Azm294.0000°; N 0.0650,Plg1.0000°,Azm25.0000°; P -1.7460,Plg19.0000°,Azm116.0000° $M_0$1.71600×10^{17}

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s206.00000°,δ47.00000°,λ93.00000°. NP2:ϕ_s22.00000°,δ43.00000°,λ87.00000°. Principal axes: T Plg87.0000°,Azm159.0000°; N Plg2.0000°,Azm24.0000°; P Plg2.0000°,Azm294.0000°

ISCJB Event type fe.

(135) Near coast of central Chile

ISC	**II**	**10 15 58 35.9–1.7**	**32.66S–.03**	**71.78W–.06**	**5–10**	**4.8b**	**132 1-171**	
ISCJB	II	10 15 58 35.8–.26	32.69S–.03	71.91W–.04	10	4.8b		¶16022180
IDC	II	10 15 58 35.3–.68	32.76S	71.73W	0	4.7L,4.6		
BJI	II	10 15 58 35.8	32.60S	71.80W	9	5.6,5.6s		
NEIC	II	10 15 58 35.3–3.7	32.63S	71.78W	4–22	5.1L,4.8b		
GUC	II	10 15 58 38.3–.67	32.71S	71.89W	21–5	5.1L,4.8b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.8km az=149.7.

IDC Error ellipse: s-maj=24.8km s-min=18.5km az=91.0.

NEIC Event type fe. Error ellipse: s-maj=15.8km s-min=7.7km az=79.0. Felt [IV] at Concon, La Ligua, Quilpue, Valparaiso, Villa Alemana, Vina del Mar and Zapallar; [III] at Curacavi, Los Andes, Nogales, Petorca, Puchuncavi, Puente Alto, Quillota, Quintero, San Felipe, Santiago and Tiltil; [II] at Calera de Tango, Mostazal, Navidad, Rancagua, Salamanca, San Antonio and Talagante.

GUC Error ellipse: s-maj=2.1km s-min=4.1km az=-1.0.

(173) Tonga Islands

ISC	**II**	**11 02 46 21.8–.61**	**20.92S–.08**	**174.46W–.08**	**33–2**	**4.9b,4.7s**	**269 7-171**	
IDC	II	11 02 46 16.0–.55	21.04S	174.40W	0	4.7,4.6		¶17192043
NEIC	II	11 02 46 18.6–3.3	20.80S	174.51W	12–19	5.0b,4.6		
GCMT	II	11 02 46 18.6–.50	20.77S	174.00W	30–1	5.0W,4.6		
ISCJB	II	11 02 46 20.4–.23	20.88S–.05	174.61W–.05	33	4.9b,4.7s		
MOS	II	11 02 46 21.0–.87	20.82S	174.60W	33	5.0b,4.7s		
BJI	II	11 02 46 21.7	20.80S	174.50W	35	5.6b,5.3s		

ISC Event type se.

IDC Error ellipse: s-maj=24.7km s-min=14.6km az=138.0.

NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.1km az=132.0.

GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c35; s60,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.72±.30 $M_{\theta\theta}$0.41±.22; $M_{\phi\phi}$-3.14±.18; $M_{r\theta}$-1.47±.42; $M_{\theta\phi}$-1.34±.14; $M_{\phi r}$0.51±.25; Best double couple: NP1:ϕ_s352.00000°,δ52.00000°,λ51.00000°. NP2:ϕ_s225.00000°,δ52.00000°,λ129.00000°. Principal axes: T 3.6020,Plg60.0000°,Azm199.0000°; N -0.0190,Plg30.0000°,Azm18.0000°; P -3.5890,Plg0.0000°,Azm108.0000° $M_0$3.59500×10^{16}

ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.1km az=44.6.

MOS Error ellipse: s-maj=14.1km s-min=11.4km az=149.6.

(196) Irian Jaya region

ISC	**II**	**11 07 57 53.7–.73**	**0.34S–.07**	**132.38E–.06**	**33**	**3.8b**	**19 1-86**	
IDC	II	11 07 57 48.5–1.1	0.40S	132.28E	0	3.9,3.9L		¶17192060
ISCJB	II	11 07 57 53.1–.60	0.24S–.06	132.31E–.06	33	3.8b,3.0s		
DJA	II	11 07 57 53.6–.50	0S–6.0	132E–2.0	10	5.7b,5.2		

ISC Event type ke.

ISCJB Event type ke.

(266) Northern Molucca Sea

ISC	**II**	**11 11 06 18.2–.29**	**2.42N–.03**	**126.40E–.05**	**55**	**4.7b,3.6s**	**219 2-160**	
MOS	II	11 11 06 14.2–1.0	2.44N	126.28E	36	4.9b,3.6s		¶16020789
BJI	II	11 11 06 14.5	1.88N	126.50E	80	5.1b,4.9s		
ISCJB	II	11 11 06 16.7–.17	2.50N–.02	126.46E–.03	55	4.7b,3.7s		
DJA	II	11 11 06 17.2–.50	3N–5.0	127E–4.0	10	5.3b,5.0b		
NEIC	II	11 11 06 20.0–.62	2.40N	126.41E	77–6	4.8b,5.0b		
IDC	II	11 11 06 20.0–1.9	2.39N	126.37E	76–16	4.6,4.3		
KLM	II	11 11 06 21.5	2.22N	126.43E	80	5.8s,5.0b		

ISC Event type se.

MOS Error ellipse: s-maj=12.1km s-min=6.1km az=112.8.

ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=161.8.

NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=67.0.

IDC Error ellipse: s-maj=16.2km s-min=8.1km az=73.0.

(135) Near coast of central Chile

ISC	**II**	**11 20 05 28.9–.39**	**36.46S–.03**	**73.16W–.04**	**13–2**	**7.1s,6.0b**	**1616 0-178**	
ISCJB	II	11 20 05 26.7–.93	36.40S–.02	73.05W–.04	6–5	7.1s,6.0b		¶602064448
GUC	II	11 20 05 26.8–.68	36.68S	73.59W	21–10	6.9L,6.8W		
IDC	II	11 20 05 29.4–1.9	36.55S	73.24W	19–11	6.8s,6.8		
NEIC	II	11 20 05 30.9–.15	36.42S	72.96W	26	6.9L,6.9		
GCMT	II	11 20 05 30.8–.00	36.63S	73.56W	18–0	6.8W,6.9		
BJI	II	11 20 05 31.3	36.30S	73.00W	20	7.1,7.1s		
NEIC	II	11 20 05 31.0–.00	36.48S	73.40W	28	7.1,7.1s		
MOS	II	11 20 05 32.2–1.4	36.17S	73.10W	33	7.1s,6.1b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=166.6.

GUC Error ellipse: s-maj=6.2km s-min=7.3km az=-1.0.

IDC Error ellipse: s-maj=13.0km s-min=9.4km az=90.0.

NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=74.0. Power outages occurred at Constitucion, Curanipe and Pelluhue. A local tsunami with a wave height of 0.3 meters observed at Talcahuano. Felt [VI] at Arauco, Cauquenes, Chanco, Colbun, Concepcion, Constitucion, Curico, Empedrado, La Laja, Linares, Longavi, Molina, Pelluhue, Retiro, Romeral, San Clemente, San Javier, Talca, Talcahuano and Yerbas Buenas; [V] at Angol, Chepica, Chillan, Iloca, Los Sauces, Melipeuco, Paredones, Parral, Rancagua, Renaico, Rio Claro, Santa Cruz and Yumbel; [IV] at Los Angeles, San Vicente and Vina del Mar; [III] at Santiago and Temuco. Felt in much of central Chile from La Ligua to Valdivia. Felt [II] at Buenos Aires, Argentina. Also felt at Cutral Co, Mendoza, Neuquen, San Carlos de Bariloche and San Juan. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 3 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$2.00000×10^{19} Moment Tensor Solution. s49 Moment tensor: Scale 10^{19}Nm; M_{rr}0.55 $M_{\theta\theta}$0.06 $M_{\phi\phi}$-0.61 $M_{r\theta}$0.33 $M_{\theta\phi}$-0.10 $M_{\phi r}$-1.55 Best double couple: NP1:ϕ_s169.00000°,δ80.00000°,λ82.00000°. NP2:ϕ_s28.00000°,δ12.00000°,λ128.00000°. Principal axes: T 1.6900,Plg54.0000°,Azm70.0000°; N 0.0000,Plg7.0000°,Azm171.0000°; P -1.6900,Plg35.0000°,Azm266.0000° $M_0$1.70000×10^{19}

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s139,c342; s136,c609;Duration: 6s4 Moment tensor: Scale 10^{19} Nm; M_{rr}1.00±.01 $M_{\theta\theta}$-0.03±.00; $M_{\phi\phi}$-0.96±.01; $M_{r\theta}$0.03±.01; $M_{\theta\phi}$-0.13±.00; $M_{\phi r}$-2.09±.03; Best double couple: NP1:ϕ_s180.00000°,δ77.00000°,λ87.00000°. NP2:ϕ_s15.00000°,δ13.00000°,λ104.00000°. Principal axes: T 2.3300,Plg57.0000°,Azm86.0000°; N -0.0320,Plg3.0000°,Azm181.0000°; P -2.2970,Plg32.0000°,Azm273.0000° $M_0$2.31300×10^{19}

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{19}Nm; M_{rr}0.86 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-0.89 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.27 $M_{\phi r}$-3.02 Best double couple: NP1:ϕ_s169.00000°,δ83.00000°,λ82.00000°. NP2:ϕ_s36.00000°,δ11.00000°,λ136.00000°. Principal axes: T 3.2800,Plg51.0000°,Azm70.0000°; N -0.1000,Plg7.0000°,Azm169.0000°; P -3.1700,Plg37.0000°,Azm265.0000° $M_0$3.20000×10^{19}

MOS Error ellipse: s-maj=12.6km s-min=6.8km az=96.1. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s177.00000°,δ84.00000°,λ61.00000°. NP2: ϕ_s77.00000°,δ30.00000°,λ169.00000°. Principal axes: T Plg43.0000°,Azm58.0000°; N Plg29.0000°,Azm180.0000°; P Plg33.0000°,Azm291.0000°

(135) Near coast of central Chile

ISC	**II**	**11 21 45 58.9–.28**	**36.62S–.04**	**73.29W–.06**	**27**	**5.3b**	**666 0-178**	
ISCJB	II	11 21 45 57.5–.18	36.54S–.04	73.19W–.06	27	5.5s,5.1b		¶16021294
GUC	II	11 21 45 57.2–.66	36.66S	73.44W	18–9	4.9L,5.1b		
NEIC	II	11 21 45 57.0	36.66S	73.44W	18	5.3b,4.9L		
IDC	II	11 21 45 59.6–3.9	36.72S	73.34W	33–28	5.5,5.5s		
MOS	II	11 21 45 59.0–1.1	36.63S	73.25W	33	5.4b,5.5s		
BJI	II	11 21 46 00.6	36.50S	73.00W	29	5.9b,5.5s		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.4km az=154.5.

GUC Error ellipse: s-maj=5.2km s-min=6.3km az=-1.0.

NEIC Event type fe. Felt [III] at La Laja. After GUC.

IDC Error ellipse: s-maj=20.7km s-min=12.4km az=68.0.

MOS Error ellipse: s-maj=16.8km s-min=7.7km az=103.8.

(135) Near coast of central Chile

ISC	**II**	**11 23 39 21.2–.37**	**37.24S–.03**	**73.49W–.05**	**17–1**	**5.7s,5.5b**	**935**	**0-178**
GUC	II	11 23 39 16.6–.87	37.12S	74.25W	38–12	5.3L,5.5b		**¶16021297**
ISCJB	II	11 23 39 18.4–1.5	37.09S–.03	73.26W–.05	3–9	5.8s,5.3b		
IDC	II	11 23 39 18.6–.41	37.20S	73.40W	0	5.7,5.7s		
GCMT	II	11 23 39 21.3–.10	37.45S	74.11W	16–0	6.0W,5.7s		
NEIC	II	11 23 39 21.3–.19	37.20S	73.20W	15	5.9W,5.7s		
BJI	II	11 23 39 22.5	37.10S	73.30W	15	6.0b,6.0s		
MOS	II	11 23 39 23.5–1.3	37.18S	73.31W	35	5.6b,5.6s		

ISC Event type fe.
GUC Error ellipse: s-maj=19.0km s-min=10.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=159.1.
IDC Error ellipse: s-maj=13.0km s-min=8.1km az=95.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c162; s126,c325;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.59±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$-1.01±.04; Best double couple: NP1: ϕ_s183.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s11.00000°,δ16.00000°,λ98.00000°. Principal axes: T 1.1970,Plg61.0000°,Azm90.0000°; N -0.0280,Plg2.0000°,Azm183.0000° ; P -1.1690,Plg29.0000°,Azm275.0000° $M_0$1.18300×10^{18}
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=72.0. Felt [V] at Arauco, Concepcion, Hualqui, Penco, Talcahuano and Yumbel; [IV] at Cabrero, Curanilahue, Hualpen, Los Angeles and Renaico; [III] at Angol, Collipulli, Constitucion, La Laja, Los Sauces, Padre Las Casas, Parral, Puren, Quirihue, Temuco and Tolten; [II] at Carahue, Curacautin, Tirua and Valdivia. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s54 Moment tensor: Scale 10^{17}Nm; M_{rr}6.93 $M_{\theta\theta}$-0.77 $M_{\phi\phi}$-6.17 $M_{r\theta}$-0.59 $M_{\theta\phi}$-1.39 $M_{\phi r}$-6.30 Best double couple: NP1:ϕ_s188.00000° ,δ67.00000°,λ86.00000°. NP2:ϕ_s18.00000°,δ24.00000°,λ99.00000°. Principal axes: T 9.4700,Plg68.0000°,Azm90.0000°; N -0.4900,Plg4.0000°,Azm190.0000° ; P -8.9800,Plg22.0000°,Azm281.0000° $M_0$9.20000×10^{17}
MOS Error ellipse: s-maj=18.2km s-min=7.6km az=104.6.

(212) Bonin Islands region

ISC	**II**	**11 23 59 17.7–.47**	**27.44N–.03**	**143.04E–.04**	**12–2**	**5.0b,4.9s**	**532**	**1-150**
NIED	II	11 23 59 00	27.50N	143.00E	8	4.9W,4.9s		**¶601501262**
BJI	II	11 23 59 14.8	27.23N	143.17E	20	5.3b,5.0b		
IDC	II	11 23 59 15.2–.41	27.34N	143.16E	0	4.8,4.8		
ISCJB	II	11 23 59 15.9–1.1	27.49N–.03	142.96E–.03	6–6	5.1s,5.0b		
NEIC	II	11 23 59 17.6–.17	27.30N	143.06E	10	5.1b,5.0b		
MOS	II	11 23 59 17.6–.94	27.32N	143.03E	24	5.6s,5.2b		
JMA	II	11 23 59 19.4	27.52N	143.03E	69	4.9,5.2b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ39.00000°,λ148.00000°. NP2:ϕ_s32.00000°,δ70.00000°,λ56.00000°. $M_0$2.68000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=10.5km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.9km az=177.9.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=129.0.
MOS Error ellipse: s-maj=8.6km s-min=4.4km az=114.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

(135) Near coast of central Chile

ISC	**II**	**12 01 17 00.7–.22**	**37.00S–.03**	**73.16W–.06**	**10**	**5.9s,5.4b**	**977**	**0-177**
IDC	II	12 01 16 57.8–.46	37.21S	73.70W	0	5.9,5.9s		**¶16021304**
ISCJB	II	12 01 17 00.1–.17	37.03S–.04	73.09W–.06	10	5.9s,5.3b		
GUC	II	12 01 17 00.6–.40	36.96S	74.16W	25–2	5.9L,5.3b		
NEIC	II	12 01 17 01.4–.22	37.03S	72.95W	16	6.1W,5.9L		
GCMT	II	12 01 17 01.4–.10	37.35S	74.00W	14–0	6.0W,5.9L		
BJI	II	12 01 17 02.7	37.10S	73.00W	16	6.2s,6.1		
MOS	II	12 01 17 03.1–1.5	37.12S	73.37W	33	5.9s,5.5b		

ISC Event type fe.
IDC Error ellipse: s-maj=18.2km s-min=12.2km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.4km az=151.2.
GUC Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=6.2km az=66.0. Felt [VI] at Concepcion and Penco; [V] at Angol, Cabrero, Chiguayante, Cobquecura, Curanilahue, Hualpen, La Laja, Los Alamos, Los Angeles, Quirihue, Renaico, San Rosendo, Tirua and Tome. Felt widely in central Chile as far as Valdivia and Vina del Mar. Also felt at Cutral-Co, Argentina. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95 $M_{\theta\theta}$0.32 $M_{\phi\phi}$-1.27 $M_{r\theta}$-0.31 $M_{\theta\phi}$0.90 $M_{\phi r}$-0.86 Best double couple: NP1:ϕ_s186.00000° ,δ67.00000°,λ128.00000°. NP2:ϕ_s302.00000°,δ43.00000°,λ34.00000°. Principal axes: T 1.5600,Plg52.0000°,Azm141.0000°; N 0.2800,Plg35.0000°,Azm349.0000° ; P -1.8400,Plg14.0000°,Azm249.0000° $M_0$1.70000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c219; s132,c375;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.61±.01 $M_{\theta\theta}$0.01±.01; $M_{\phi\phi}$-0.62±.01; $M_{r\theta}$-0.05±.01; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-1.06±.03; Best double couple: NP1: ϕ_s183.00000°,δ75.00000°,λ88.00000°. NP2:ϕ_s12.00000°,δ15.00000°,λ98.00000°. Principal axes: T 1.2230,Plg60.0000°,Azm90.0000°; N 0.0170,Plg2.0000°,Azm184.0000° ; P -1.2400,Plg30.0000°,Azm275.0000° $M_0$1.23100×10^{18}
MOS Error ellipse: s-maj=15.2km s-min=7.2km az=103.7.

(407) North of Ascension Island

ISC	**II**	**12 02 53 14.1–.48**	**0.05N–.05**	**17.02W–.05**	**5–2**	**5.4b,5.2s**	**1189**	**8-146**
BJI	II	12 02 53 12.9	0.07N	16.98W	7	6.1b,5.6b		**¶16021308**
ISCJB	II	12 02 53 12.7–.15	0.01N–.03	16.98W–.02	8	5.3b,5.2s		
IDC	II	12 02 53 13.8–.40	0.19N	17.10W	0	5.7L,5.1		
MOS	II	12 02 53 13.5–.93	0.16N	17.00W	10	5.7b,5.4s		
NEIC	II	12 02 53 15.1–.15	0.08N	17.02W	10	5.5b,5.4s		
GCMT	II	12 02 53 15.1–.10	0.31N	17.05W	15	5.7W,5.4s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.1km az=156.0.
IDC Error ellipse: s-maj=15.0km s-min=9.9km az=151.0.
MOS Error ellipse: s-maj=8.4km s-min=3.8km az=58.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=2.8km az=158.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c177; s130,c316;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.28±.04 $M_{\theta\theta}$0.77±.04; $M_{\phi\phi}$-1.04±.04; $M_{r\theta}$1.17±.12; $M_{\theta\phi}$-3.24±.03; $M_{\phi r}$-1.28±.12; Best double couple: NP1: ϕ_s175.00000°,δ77.00000°,λ22.00000°. NP2:ϕ_s79.00000°,δ69.00000°,λ166.00000°. Principal axes: T 4.0090,Plg25.0000°,Azm38.0000°; N -0.4780,Plg65.0000°,Azm205.0000° ; P -3.5290,Plg5.0000°,Azm306.0000° $M_0$3.76900×10^{17}

(177) Kermadec Islands region

ISC	**II**	**12 03 03 04.1–.23**	**31.23S–.03**	**177.70W–.04**	**10**	**5.6s,5.2b**	**616**	**2-174**
ISCJB	II	12 03 03 02.6–.11	31.52S–.02	177.78W–.03	10	5.5s,5.2b		**¶16168839**
IDC	II	12 03 03 02.5–.37	31.09S	177.70W	0	5.2,5.2s		
NEIC	II	12 03 03 04.3–.13	31.24S	177.81W	10	5.7s,5.2b		
GCMT	II	12 03 03 04.3–.20	31.11S	177.40W	21–0	5.6W,5.2b		
BJI	II	12 03 03 05.3	30.66S	177.20W	22	5.9b,5.5s		
MOS	II	12 03 03 07.7–.90	31.12S	177.85W	38	5.5s,5.4b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.2km az=36.6.
IDC Error ellipse: s-maj=16.1km s-min=13.8km az=144.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.4km az=134.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s78,c116; s125,c239;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.21±.06 $M_{\theta\theta}$-0.14±.04; $M_{\phi\phi}$-2.07±.04; $M_{r\theta}$-0.18±.10; $M_{\theta\phi}$-0.33±.03; $M_{\phi r}$1.96±.09; Best double couple: NP1: ϕ_s360.00000°,δ66.00000°,λ83.00000°. NP2:ϕ_s198.00000°,δ25.00000°,λ106.00000°. Principal axes: T 2.9980,Plg68.0000°,Azm256.0000°; N -0.1440,Plg7.0000°,Azm3.0000° ; P -2.8530,Plg21.0000°,Azm95.0000° $M_0$2.92600×10^{17}
MOS Error ellipse: s-maj=11.1km s-min=9.3km az=78.4.

(266) Northern Molucca Sea

ISC	**II**	**12 11 55 26.4–.36**	**1.99N–.03**	**126.87E–.04**	**48–2**	**5.6b,5.3s**	**996**	**1-173**
BJI	II	12 11 55 22.2	1.81N	126.62E	39	5.6b,5.4b		**¶16022042**
IDC	II	12 11 55 22.3–2.2	1.95N	126.83E	18–13	5.3,5.2		
MOS	II	12 11 55 23.3–1.2	2.06N	126.86E	33	5.9b,5.1s		
ISCJB	II	12 11 55 25.0–.30	2.01N–.02	126.86E–.02	53–2	5.6b,5.2s		
GCMT	II	12 11 55 24.8–.10	2.11N	126.89E	24–0	5.8W,5.2s		
NEIC	II	12 11 55 24.8–.11	1.99N	126.83E	35	5.7b,5.6W		
KLM	II	12 11 55 25.2	1.93N	127.04E	54	6.0s,5.7b		
DJA	II	12 11 55 25.4–.40	2N–4.0	127E–2.0	10	5.9b,5.8		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c186; s106,c228;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}2.88±.06 $M_{\theta\theta}$1.58±.05; $M_{\phi\phi}$-4.45±.05; $M_{r\theta}$-3.57±.15; $M_{\theta\phi}$-1.23±.04; $M_{\phi r}$-1.10±.13; Best double couple: NP1:ϕ_s226.00000°,δ69.00000°,λ129.00000°. NP2:ϕ_s340.00000° ,δ43.00000°,λ32.00000°. Principal axes: T 5.8590,Plg50.0000°,Azm179.0000° ; N -0.6780,Plg36.0000°,Azm30.0000°; P -5.1710,Plg15.0000°,Azm288.0000° $M_0$5.51500×10^{17}
NEIC Event type fe. Felt [II] at Manado, Indonesia. Also felt on Pulau Ternate. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}1.74 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$-0.49 $M_{r\theta}$-1.10 $M_{\theta\phi}$-2.29 $M_{\phi r}$0.58 Best double couple: NP1:ϕ_s16.00000°,δ53.00000°,λ35.00000°. NP2:ϕ_s263.00000° ,δ62.00000°,λ137.00000°. Principal axes: T 2.7800,Plg49.0000°,Azm225.0000° ; N 0.4600,Plg41.0000°,Azm56.0000°; P -3.2400,Plg6.0000°,Azm321.0000° $M_0$3.00000×10^{17}

(134) Off coast of central Chile

ISC	**II**	**12 15 25 05.8–.41**	**37.12S–.05**	**73.83W–.07**	**35**	**4.7b,4.2s**	**125**	**1-174**
IDC	II	12 15 25 00.7–.73	37.22S	73.74W	0	4.5,4.4		**¶16022450**
MOS	II	12 15 25 00.7–3.6	37.22S	73.74W	33	5.0b,4.4		
GUC	II	12 15 25 02.5–.66	37.04S	74.10W	25–13	4.5L,4.4		
NEIC	II	12 15 25 02.0	37.04S	74.09W	25	4.8b,4.5L		
BJI	II	12 15 25 03.3	37.75S	74.02W	27	5.6s,5.5b		
ISCJB	II	12 15 25 04.3–.32	37.20S–.04	73.70W–.05	33	4.7b,4.1s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Concepcion; [III] at Hualpen, Penco, San Pedro de la Paz and Talcahuano; [II] at Chiguayante. After GUC.
ISCJB Event type fe.

(273) Southwest of Sumatera

ISC	**II**	**12 16 09 13.3–.37**	**7.00S–.04**	**101.74E–.05**	**35**	**4.7b,3.8s**	**322**	**3-152**
IDC	II	12 16 09 08.6–.69	7.02S	101.72E	0	4.6,4.5b		**¶16022197**
NEIC	II	12 16 09 09.2–.48	7.00S	101.75E	10	4.8b,4.5b		
ISCJB	II	12 16 09 11.3–.25	7.04S–.03	101.80E–.02	33	4.6b,3.9s		
BJI	II	12 16 09 11.7	7.00S	101.80E	30	5.2b,4.9s		
DJA	II	12 16 09 12.1–.30	7S–2.0	102E–3.0	10	5.7b,5.2		
MOS	II	12 16 09 12.1–.87	6.90S	101.79E	36	4.8b,5.2		

ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=15.3km az=46.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.8km az=216.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=5.7.
MOS Error ellipse: s-maj=17.6km s-min=8.7km az=106.2.

(135) Near coast of central Chile

ISC	**II**	**13 08 51 34.7–.55**	**36.59S–.03**	**73.41W–.04**	**28–3**	**5.7s,5.4b**	**952**	**0-178**
IDC	II	13 08 51 30.3–.44	36.62S	73.30W	0	5.6,5.6s		**¶16022457**
GUC	II	13 08 51 31.6–.31	36.67S	73.74W	21–2	5.7W,5.6L		
NEIC	II	13 08 51 34.0–.53	36.57S	73.18W	21–3	5.8W,5.7s		
MOS	II	13 08 51 34.8–1.1	36.54S	73.34W	33	5.6b,5.6s		
GCMT	II	13 08 51 34.0–.10	36.78S	73.61W	16–0	5.9W,5.6s		
ISCJB	II	13 08 51 34.5–.60	36.58S–.03	73.35W–.06	40–5	5.7s,5.3b		
BJI	II	13 08 51 35.1	36.50S	73.20W	30	5.9s,5.8		

ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=11.0km az=79.0.
GUC Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=69.0. Felt [V] at Arauco, Cobquecura, Concepcion, Coronel, Lebu, Penco, Quirihue, Talcahuano, Tome and Yumbel; [IV] in much of Araucania and Bio-Bio; [II] as far as Santiago and Valdivia. Also felt at Mendoza and San Carlos de Bariloche, Argentina. Moment Tensor Solution. s64 Moment tensor: Scale 10^{17}Nm; M_{rr}2.92 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-4.29 $M_{r\theta}$-0.29 $M_{\theta\phi}$0.43 $M_{\phi r}$-3.87 Best double couple: NP1:ϕ_s184.00000°,δ69.00000°,λ98.00000°. NP2:ϕ_s342.00000° ,δ23.00000°,λ69.00000°. Principal axes: T 4.6100,Plg23.0000°,Azm94.0000° ; N 1.4000,Plg0.0000°,Azm4.0000°; P -6.0000,Plg67.0000°,Azm274.0000° $M_0$5.40000×10^{17}
MOS Error ellipse: s-maj=15.7km s-min=7.0km az=101.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c210; s124,c315;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}3.28±.05 $M_{\theta\theta}$-0.00±.03; $M_{\phi\phi}$-3.28±.04; $M_{r\theta}$-0.15±.10; $M_{\theta\phi}$-0.41±.03; $M_{\phi r}$-8.14±.30; Best double couple: NP1: ϕ_s182.00000°,δ79.00000°,λ88.00000°. NP2:ϕ_s13.00000°,δ11.00000°,λ101.00000°. Principal axes: T 8.7770,Plg56.0000°,Azm89.0000°; N 0.0170,Plg2.0000°,Azm182.0000° ; P -8.7970,Plg34.0000°,Azm273.0000° $M_0$8.78700×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=170.8.

(135) Near coast of central Chile

ISC	**II**	**13 10 35 07.3–.53**	**36.71S–.03**	**73.38W–.04**	**23–3**	**5.9s,5.6b**	**1239**	**0-178**
NEIC	II	13 10 35 06.7–.15	36.65S	73.18W	17	6.0W,5.9W		**¶16022458**
GCMT	II	13 10 35 06.7–.10	36.83S	73.74W	14–0	5.9W,5.9W		
ISCJB	II	13 10 35 07.0–.58	36.67S–.02	73.38W–.03	32–4	5.8s,5.5b		
BJI	II	13 10 35 07.6	36.70S	73.15W	30	6.0s,5.9		
GUC	II	13 10 35 07.7–.43	36.76S	73.41W	36–1	5.6L,5.9		
MOS	II	13 10 35 08.9–1.3	36.59S	73.32W	38	5.8b,5.8s		
IDC	II	13 10 35 08.5–1.6	36.79S	73.55W	35–11	5.8s,5.7		
NEIC	II	13 10 35 24.0–.00	36.42S	73.13W	10	5.8s,5.7		

ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=72.0. Felt [VI] at Chiguayante, Concepcion, Coronel, Penco and Talcahuano; [V] at Cauquenes, Chillan, Contulmo, Hualpencillo, Lebu, San Pedro and Tome; [II] as far as Curico and Valdivia. Also felt at Neuquen, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$2.00000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ69.00000°,λ101.00000°. NP2:ϕ_s344.00000°,δ23.00000°,λ63.00000°. Principal axes: T 0.9700,Plg64.0000° ,Azm121.0000°; N 0.1100,Plg10.0000°,Azm9.0000°; P -1.0800,Plg23.0000°,Azm275.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c235; s131,c389;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.57±.01 $M_{\theta\theta}$0.00±.00; $M_{\phi\phi}$-0.58±.01; $M_{r\theta}$-0.05±.01; $M_{\theta\phi}$-0.08±.00; $M_{\phi r}$-0.80±.02; Best double couple: NP1: ϕ_s184.00000°,δ72.00000°,λ88.00000°. NP2:ϕ_s12.00000°,δ18.00000°,λ97.00000°. Principal axes: T 0.9870,Plg63.0000°,Azm91.0000°; N 0.0130,Plg2.0000°,Azm185.0000° ; P -1.0010,Plg27.0000°,Azm276.0000° $M_0$0.99400×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.9km az=7.6.
GUC Error ellipse: s-maj=1.2km s-min=3.2km az=-1.0.
MOS Error ellipse: s-maj=14.1km s-min=6.3km az=100.8.
IDC Error ellipse: s-maj=14.1km s-min=8.1km az=85.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{18}Nm; M_{rr}0.52 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-0.63 $M_{r\theta}$-0.60 $M_{\theta\phi}$-0.06 $M_{\phi r}$-1.03 Best double couple: NP1:ϕ_s207.00000° ,δ78.00000°,λ102.00000°. NP2:ϕ_s342.00000°,δ17.00000°,λ46.00000°. Principal axes: T 1.3300,Plg55.0000°,Azm132.0000°; N 0.0000,Plg12.0000°,Azm25.0000° ; P -1.3300,Plg32.0000°,Azm288.0000° $M_0$1.30000×10^{18}

(135) Near coast of central Chile

ISC	**II**	**13 12 08 18.8–.55**	**36.74S–.06**	**73.47W–.07**	**27**	**4.3b,4.1s**	**50**	**0-174**
IDC	II	13 12 08 14.6–.95	36.70S	73.36W	0	4.3,4.3L		**¶16024733**
GUC	II	13 12 08 15.8–.49	36.72S	73.60W	12	4.5L,4.3L		
NEIC	II	13 12 08 15.0	36.72S	73.60W	12	4.7b,4.5L		
ISCJB	II	13 12 08 17.1–.52	36.73S–.06	73.55W–.06	27	4.3b,4.0s		
BJI	II	13 12 08 17.3	36.60S	73.40W	10	5.9s,5.9		

ISC Event type fe.
IDC Error ellipse: s-maj=29.5km s-min=17.6km az=64.0.
GUC Error ellipse: s-maj=2.3km s-min=4.5km az=-1.0.
NEIC Event type fe. Felt [III] at Chiguayante, Concepcion, Coronel, Hualpen, Lota, Penco, San Pedro and Talcahuano; [II] at Cauquenes, Cobquecura, Empedrado, Renaico and Temuco. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.6km az=24.6.

(135) Near coast of central Chile

ISC	**II**	**13 13 44 37.6–.23**	**36.59S–.03**	**73.46W–.04**	**27**	**5.3b,5.3s**	**944**	**0-178**
IDC	II	13 13 44 33.2–.40	36.72S	73.46W	0	5.3,5.3s		**¶601516583**
ISCJB	II	13 13 44 36.6–.15	36.48S–.03	73.23W–.05	27	5.3s,5.3b		
BJI	II	13 13 44 36.8	36.27S	72.84W	29	5.7s,5.5		
GUC	II	13 13 44 36.3–.71	36.61S	73.49W	7–105	5.1L,5.5		
GCMT	II	13 13 44 36.4–.10	36.75S	73.74W	18–0	5.6W,5.5		
NEIC	II	13 13 44 36.5–.83	36.56S	73.28W	19–4	5.5W,5.4b		
MOS	II	13 13 44 38.0–1.2	36.49S	73.37W	33	5.5b,5.2s		

ISC Event type fe.
IDC Error ellipse: s-maj=17.2km s-min=11.3km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.7km az=155.0.
GUC Error ellipse: s-maj=15.5km s-min=119.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c151; s106,c208;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.72±.04 $M_{\theta\theta}$-0.00±.02;

$M_{\phi\phi}$-1.71±.03; $M_{r\theta}$-0.17±.06; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$-2.99±.14; Best double couple: NP1: ϕ_s184.00000°,δ75.00000°,λ89.00000°. NP2:ϕ_s9.00000°,δ15.00000°,λ95.00000°. Principal axes: T 3.4530,Plg60.0000°,Azm92.0000°; N 0.0130,Plg1.0000°,Azm184.0000° ; P -3.4590,Plg30.0000°,Azm275.0000° $M_0$3.45600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=69.0. Felt [VI] at Chiguayante, Concepcion, Hualpen, Penco and Talcahuano; [V] at Arauco and Coronel; [IV] at Chillan, Chillan Viejo, Cobquecura, Colbun, Linares, Los Alamos, Parral and Quirihue. Felt as far as Constitucion and Temuco. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}1.33 $M_{\theta\theta}$0.54 $M_{\phi\phi}$-1.87 $M_{r\theta}$0.03 $M_{\theta\phi}$0.12 $M_{\phi r}$-1.54 Best double couple: NP1:ϕ_s179.00000° ,δ67.00000°,λ92.00000°. NP2:ϕ_s354.00000°,δ23.00000°,λ86.00000°. Principal axes: T 1.9500,Plg22.0000°,Azm92.0000°; N 0.5400,Plg3.0000°,Azm1.0000° ; P -2.4900,Plg68.0000°,Azm262.0000° $M_0$2.30000×10^{17}

MOS Error ellipse: s-maj=15.7km s-min=6.9km az=103.5.

(309) Nepal-India border region

ISC	**II**	**13 17 51 21.8–.50**	**27.36N–.03**	**86.94E–.02**	**31–3**	**4.3b,3.6s**	**199**	**1-148**
IDC	II	13 17 51 17.4–.63	27.38N	86.96E	0	4.4,4.3		**¶16022469**
BJI	II	13 17 51 19.7	27.40N	86.91E	33	4.9b,4.4b		
DMN	II	13 17 51 19.2–.23	27.47N	87.01E	2	5.1L,4.4b		
ISCJB	II	13 17 51 20.9–.38	27.32N–.02	86.91E–.02	39–4	4.3b,3.6s		
MOS	II	13 17 51 20.4–1.3	27.35N	86.96E	33	4.5b,3.6s		
NDI	II	13 17 51 21.1–2.7	27.39N	86.93E	10	4.6b,4.5b		
NEIC	II	13 17 51 21.6–2.1	27.39N	86.94E	29–15	4.5b,4.5b		
BKK	II	13 17 51 25.6–.50	27N–16	86E–13	10	6.2b,5.8		

ISC Event type ke.
DMN Event type ke.
ISCJB Event type ke.
NEIC Event type se.

(135) Near coast of central Chile

ISC	**II**	**13 17 54 20.9–.43**	**37.28S–.05**	**73.67W–.07**	**23**	**4.6b,4.0s**	**92**	**1-178**
GUC	II	13 17 54 15.4–.48	37.39S	73.88W	7–6	4.7L,4.0s		**¶16024740**
NEIC	II	13 17 54 15.0	37.38S	73.87W	7	4.8b,4.7L		
IDC	II	13 17 54 18.5–.70	37.20S	73.68W	0	4.4,4.3		
ISCJB	II	13 17 54 20.0–.44	37.25S–.04	73.57W–.08	23	4.5b,4.1s		
BJI	II	13 17 54 22.0	37.20S	73.60W	27	5.5s,5.3		

ISC Event type fe.
GUC Error ellipse: s-maj=2.6km s-min=6.6km az=-1.0.
NEIC Event type fe. Felt [III] at Collipulli, Concepcion, Hualpen, Renaico, San Pedro de la Paz and Talcahuano; [II] at Arauco, Lebu, Parral, Puerto Saavedra and Tolten. After GUC.
IDC Error ellipse: s-maj=25.3km s-min=16.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.0km az=6.0.

(135) Near coast of central Chile

ISC	**II**	**14 03 40 09.3–.17**	**35.49S–.03**	**73.10W–.03**	**17**	**6.6s,5.8b**	**1469**	**1-178**
GUC	II	14 03 40 01.2–.56	35.46S	73.74W	22–7	6.3W,5.9L		**¶602035966**
IDC	II	14 03 40 06.3–.34	35.38S	72.80W	0	6.5,6.5s		
ISCJB	II	14 03 40 07.0–.13	35.42S–.02	73.07W–.03	17	6.6s,5.8b		
NEIC	II	14 03 40 09.9–.12	35.38S	72.83W	21	6.7W,6.7		
GCMT	II	14 03 40 09.9–.00	35.67S	73.61W	12	6.6W,6.7		
BJI	II	14 03 40 11.6	35.40S	73.10W	30	6.7,6.7s		
NEIC	II	14 03 40 11.0–.00	35.43S	73.14W	25	6.7,6.7s		
MOS	II	14 03 40 12.1–1.4	35.04S	73.07W	33	6.6s,6.0b		
NEIC	II	14 03 40 24.7–.00	35.68S	72.67W	10	6.6s,6.0b		

ISC Event type fe.
GUC Error ellipse: s-maj=1.5km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=9.5km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=176.6.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=78.0. Felt [V] at Cauquenes, Chillan, Cobquecura, Concepcion, Longavi, Parral, Penco, Retiro, Talcahuano and Tome; [IV] at Chanco, Constitucion, Romeral and San Pedro de la Paz; [II] as far as Quillota and Valdivia. Felt in much of central Chile. Also felt at Mendoza, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.30000×10^{19} Moment Tensor Solution. s71 Moment tensor: Scale 10^{18} Nm; M_{rr}3.09 $M_{\theta\theta}$0.37 $M_{\phi\phi}$-3.45 $M_{r\theta}$-0.40 $M_{\theta\phi}$-4.02 $M_{\phi r}$-4.65 Best double couple: NP1: ϕ_s185.00000°,δ73.00000°,λ59.00000°. NP2:ϕ_s68.00000°,δ35.00000°,λ149.00000°. Principal axes: T 6.0100,Plg52.0000°,Azm59.0000°; N 1.6600,Plg29.0000°,Azm195.0000° ; P -7.6600,Plg22.0000°,Azm298.0000° $M_0$7.00000×10^{18}

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c290; s124,c560;Duration: 5ŝ1 Moment tensor: Scale 10^{19} Nm; M_{rr}0.56±.00 $M_{\theta\theta}$-0.02±.00; $M_{\phi\phi}$-0.53±.00; $M_{r\theta}$-0.13±.01; $M_{\theta\phi}$-0.17±.00; $M_{\phi r}$-0.91±.01; Best double couple: NP1:ϕ_s189.00000°,δ74.00000°,λ86.00000°. NP2:ϕ_s25.00000° ,δ17.00000°,λ105.00000°. Principal axes: T 1.0700,Plg61.0000°,Azm93.0000° ; N 0.0190,Plg4.0000°,Azm191.0000°; P -1.0890,Plg29.0000°,Azm283.0000° $M_0$1.08000×10^{19}

NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{19}Nm; M_{rr}0.52 $M_{\theta\theta}$0.06 $M_{\phi\phi}$-0.58 $M_{r\theta}$-0.26 $M_{\theta\phi}$-0.25 $M_{\phi r}$-1.36 Best double couple: NP1:ϕ_s191.00000° ,δ79.00000°,λ86.00000°. NP2:ϕ_s32.00000°,δ12.00000°,λ110.00000°. Principal axes: T 1.4500,Plg56.0000°,Azm95.0000°; N 0.1300,Plg4.0000°,Azm191.0000° ; P -1.5800,Plg33.0000°,Azm284.0000° $M_0$1.50000×10^{19}

MOS Error ellipse: s-maj=14.6km s-min=7.1km az=97.1.
NEIC Event type se. Moment Tensor Solution. s132 Moment tensor: Scale 10^{18}Nm; M_{rr}5.67 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-5.54 $M_{r\theta}$-1.11 $M_{\theta\phi}$-1.35 $M_{\phi r}$-6.57 Best double couple: NP1:ϕ_s190.00000° ,δ70.00000°,λ88.00000°. NP2:ϕ_s16.00000°,δ21.00000°,λ95.00000°. Principal axes: T 8.7200,Plg65.0000°,Azm97.0000°; N 0.1800,Plg2.0000°,Azm191.0000° ; P -8.9000,Plg25.0000°,Azm282.0000° $M_0$8.80000×10^{18}

(134) Off coast of central Chile

ISC	**II**	**14 10 21 23.1–.34**	**35.42S–.04**	**73.18W–.05**	**10**	**5.0b,4.7s**	**203**	**1-175**
GUC	II	14 10 21 19.3–.38	35.40S	73.45W	20–4	5.1L,4.7s		**¶16026120**
IDC	II	14 10 21 21.3–.78	35.36S	72.91W	0	4.6,4.6s		
ISCJB	II	14 10 21 21.9–.19	35.37S–.03	73.15W–.04	10	4.9b,4.7s		
BJI	II	14 10 21 26.5	35.40S	73.10W	10	5.7s,5.6		
GCMT	II	14 10 21 27.3–.30	35.60S	73.41W	15–1	5.2W,5.6		
NEIC	II	14 10 21 27.3–2.4	35.32S	72.88W	34–16	5.1L,5.0b		

ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=20.4km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=162.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c45; s83,c106; Duration: 1ŝ0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.52±.29 $M_{\theta\theta}$-0.25±.15; $M_{\phi\phi}$-4.27±.20; $M_{r\theta}$0.81±.33; $M_{\theta\phi}$-0.37±.12; $M_{\phi r}$-6.55±.67; Best double couple: NP1:ϕ_s175.00000°,δ73.00000° ,λ85.00000°. NP2:ϕ_s13.00000°,δ18.00000°,λ107.00000°. Principal axes: T 8.1070,Plg61.0000°,Azm77.0000°; N -0.3450,Plg5.0000°,Azm177.0000° ; P -7.7630,Plg28.0000°,Azm270.0000° $M_0$7.93500×10^{16}

NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.1km az=65.0. Felt [III] at Concepcion and Penco.

(282) South of Jawa

ISC	**II**	**14 11 43 56.4–.49**	**10.10S–.05**	**113.81E–.04**	**59–3**	**5.0b,4.1s**	**392**	**2-152**
IDC	II	14 11 43 48.9–.60	9.92S	113.91E	0	5.0,5.0L		**¶16024045**
BJI	II	14 11 43 53.8	10.10S	113.80E	53	5.4b,5.2b		
MOS	II	14 11 43 54.7–.90	9.84S	113.97E	54	5.3b,5.2b		
ISCJB	II	14 11 43 54.3–.45	10.21S–.04	113.76E–.02	64–3	5.0b,5.2b		
NEIC	II	14 11 43 55.5–.77	10.06S	113.80E	48–6	4.9b,5.2b		
DJA	II	14 11 43 56.8–.20	10S–2.0	114E–1.0	55–3	5.9b,5.5		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Karangkates. Felt [III] at Denpasar and [II] at Kuta, Bali. Also felt at Ubud.

(222) East of Kuril Islands

ISC	**II**	**14 16 48 21.4–1.2**	**45.7N–.10**	**153.99E–.10**	**19**	**3.5b**	**20**	**4-77**
IDC	II	14 16 48 17.9–1.2	46.00N	154.13E	0	3.7,3.5		**¶17192257**
ISCJB	II	14 16 48 20.3–.92	45.7N–.10	153.88E–.09	19	3.4b,3.5		
MOS	II	14 16 48 23.9–1.1	45.85N	153.82E	56	4.0b,3.5		
SKHL	II	14 16 48 24.0–.40	45.70N	153.96E	60–1	5.7b,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=28.5km az=30.0.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=8.9km az=168.0.
MOS Error ellipse: s-maj=24.7km s-min=15.2km az=178.9.

(243) Taiwan region

ISC	**II**	**15 07 18 19.6–.21**	**21.12N–.02**	**121.19E–.03**	**39–2**	**5.4b,5.0s**	**965**	**1-175**
NIED	II	15 07 18 00	21.20N	121.10E	23	5.2W,5.0s		**¶16024897**
JMA	II	15 07 18 15.1–.70	21.19N	121.10E	0	5.4,5.0s		
BJI	II	15 07 18 15.0	21.10N	121.15E	10	5.2b,5.2s		
GCMT	II	15 07 18 17.6–.10	21.10N	120.89E	34–0	5.5W,5.2s		
MOS	II	15 07 18 17.4–1.0	21.12N	121.25E	36	5.6b,5.0s		
NEIC	II	15 07 18 17.6–.09	21.10N	121.19E	25	5.7L,5.6b		
TAP	II	15 07 18 17.8	21.18N	121.20E	71–0	5.5L,5.6b		
ISCJB	II	15 07 18 17.7–.19	21.088N–.01	121.21E–.01	37–1	5.3b,5.0s		
IDC	II	15 07 18 18.9–1.2	21.11N	121.26E	36–9	5.0,4.9		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ37.00000°,λ133.00000°. NP2:ϕ_s139.00000°,δ64.00000°,λ63.00000°. $M_0$8.03000×10^{16}
JMA Error ellipse: s-maj=5.6km s-min=4.1km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c192; s112,c237;Duration: 1ŝ3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31±.03 $M_{\theta\theta}$0.22±.02; $M_{\phi\phi}$-1.53±.02; $M_{r\theta}$-0.23±.02; $M_{\theta\phi}$-0.04±.01; $M_{\phi r}$-1.37±.03; Best double couple: NP1: ϕ_s188.00000°,δ67.00000°,λ96.00000°. NP2:ϕ_s353.00000°,δ23.00000°,λ77.00000°. Principal axes: T 1.8870,Plg67.0000°,Azm108.0000°; N 0.2020,Plg5.0000°,Azm5.0000° ; P -2.0890,Plg22.0000°,Azm273.0000° $M_0$1.98800×10^{17}
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=89.0. Felt [III PIVS] at Basco, Philippines. Recorded [2 TAP] in Taitung and [1 TAP] in Pingtung, Taiwan. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94 $M_{\theta\theta}$0.71 $M_{\phi\phi}$-1.65 $M_{r\theta}$-0.10 $M_{\theta\phi}$0.54 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s192.00000°,δ65.00000°,λ122.00000°. NP2: ϕ_s316.00000°,δ40.00000°,λ41.00000°. Principal axes: T 1.2700,Plg57.0000°,Azm146.0000° ; N 0.6800,Plg29.0000°,Azm357.0000°; P -1.9500,Plg14.0000°,Azm259.0000° $M_0$1.70000×10^{17}
TAP C.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=4.2.
IDC Error ellipse: s-maj=10.5km s-min=7.4km az=67.0.

(268) Sulawesi

ISC	**II**	**15 13 33 54.3–.38**	**2.49S–.02**	**121.47E–.03**	**27–2**	**5.8s,5.8b**	**936**	**2-168**
BJI	II	15 13 33 43.4	3.41S	121.66E	15	6.0s,5.8		**¶602064505**
IDC	II	15 13 33 49.9–.33	2.42S	121.44E	0	5.6,5.6s		
MOS	II	15 13 33 53.8–1.6	2.39S	121.48E	34	5.9b,5.8s		
NEIC	II	15 13 33 53.2–.90	2.50S	121.48E	16–5	6.1W,6.1W		
NEIC	II	15 13 33 53.0–.00	2.47S	121.54E	20	6.1W,6.1W		
ISCJB	II	15 13 33 53.8–.25	2.47S–.01	121.52E–.01	37–2	5.8s,5.6b		
GCMT	II	15 13 33 53.2–.10	2.45S	121.57E	13–0	6.1W,5.6b		
KLM	II	15 13 33 53.6	2.47S	121.66E	28	6.7s,6.3L		
DJA	II	15 13 33 55.0–.40	2S–1.0	122E–1.0	15–4	6.3b,6.3		
NEIC	II	15 13 34 05.8–.00	2.66S	121.45E	10	6.3b,6.3		

ISC Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=8.6km az=57.0.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=112.2.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=50.0. Felt [V] at Poso and Soroako; [III] at Luwuk, Masamba and Palopo; [II] at Kendari. Also felt at Banggae. Moment Tensor Solution. s22 Moment tensor: Scale 10^{18}Nm; M_{rr}0.14 $M_{\theta\theta}$1.10 $M_{\phi\phi}$-1.24 $M_{r\theta}$0.06 $M_{\theta\phi}$1.30 $M_{\phi r}$0.27 Best double couple: NP1:ϕ_s201.00000°,δ90.00000°,λ-171.00000°. NP2: ϕ_s111.00000°,δ81.00000°,λ0.00000°. Principal axes: T 1.7000,Plg6.0000°,Azm336.0000° ; N 0.1500,Plg81.0000°,Azm203.0000°; P -1.8400,Plg6.0000°,Azm66.0000° $M_0$1.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ87.00000° ,λ-142.00000°. NP2:ϕ_s111.00000°,δ53.00000°,λ-3.00000°. Principal axes: T 1.6200,Plg23.0000°,Azm331.0000°; N -0.0400,Plg52.0000°,Azm207.0000° ; P -1.5900,Plg27.0000°,Azm74.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.3km az=159.6.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c272; s144,c500;Duration: 2ŝ6 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.14±.01 $M_{\theta\theta}$0.98±.01; $M_{\phi\phi}$-0.84±.01; $M_{r\theta}$0.35±.03; $M_{\theta\phi}$1.15±.01; $M_{\phi r}$0.43±.03; Best double couple: NP1:ϕ_s19.00000°,δ87.00000°,λ161.00000°. NP2:ϕ_s110.00000° ,δ71.00000°,λ3.00000°. Principal axes: T 1.6800,Plg16.0000°,Azm333.0000° ; N -0.2380,Plg71.0000°,Azm190.0000°; P -1.4430,Plg11.0000°,Azm66.0000° $M_0$1.56100×10^{18}
NEIC Event type se. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.09 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-0.76 $M_{r\theta}$0.28 $M_{\theta\phi}$1.01 $M_{\phi r}$0.61 Best double couple: NP1:ϕ_s110.00000° ,δ62.00000°,λ-1.00000°. NP2:ϕ_s200.00000°,δ89.00000°,λ-152.00000°. Principal axes: T 1.5200,Plg19.0000°,Azm331.0000°; N -0.1200,Plg63.0000°,Azm201.0000° ; P -1.4000,Plg19.0000°,Azm68.0000° $M_0$1.40000×10^{18}

(238) Ryukyu Islands

ISC	**II**	**15 14 12 52.1–.55**	**25.95N–.03**	**128.40E–.03**	**17–3**	**5.4s,5.4b**	**848**	**1-169**
NIED	II	15 14 12 00	26.00N	128.40E	11	5.1W,5.4b		**¶16026141**
BJI	II	15 14 12 46.0	25.73N	128.53E	5	5.6b,5.4s		
IDC	II	15 14 12 49.5–.34	25.95N	128.34E	0	5.0,5.0		
NEIC	II	15 14 12 50.4–.99	25.91N	128.29E	4–6	5.4b,5.0		
GCMT	II	15 14 12 50.4–.30	25.90N	128.27E	13–1	5.2W,5.0		
ISCJB	II	15 14 12 50.2–.09	25.92N–.01	128.34E–.01	10	5.4s,5.2b		
JMA	II	15 14 12 52.8–.30	25.96N	128.44E	41–4	5.4,5.2b		
MOS	II	15 14 12 55.4–1.1	26.34N	128.25E	33	5.6b,5.4s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ17.00000°,λ132.00000°. NP2:ϕ_s211.00000°,δ77.00000°,λ78.00000°. $M_0$5.77000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=8.8km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=128.0. Felt [III] on Okinawa.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c15; s58,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.55±.40 $M_{\theta\theta}$1.45±.23; $M_{\phi\phi}$2.10±.25; $M_{r\theta}$1.76±.53; $M_{\theta\phi}$1.83±.14; $M_{\phi r}$5.13±.93; Best double couple: NP1:ϕ_s203.00000°,δ74.00000° ,λ-100.00000°. NP2:ϕ_s55.00000°,δ19.00000°,λ-60.00000°. Principal axes: T 6.3770,Plg28.0000°,Azm301.0000°; N 0.2490,Plg9.0000°,Azm206.0000° ; P -6.6270,Plg60.0000°,Azm99.0000° $M_0$6.50200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=143.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=97.5.

(228) Near east coast of eastern Honshu

ISC	**II**	**15 19 01 02.3–.38**	**38.37N–.03**	**143.29E–.03**	**20–2**	**5.2b,5.0s**	**756**	**1-164**
IDC	II	15 19 00 58.5–.51	38.27N	143.41E	0	4.9,4.9		**¶16026457**
ISCJB	II	15 19 00 59.1–.74	38.30N–.02	143.26E–.02	7–4	5.2b,5.0s		
JMA	II	15 19 01 00.3–.20	38.34N	143.44E	38	5.5,5.0s		
NIED	II	15 19 01 00	38.30N	143.40E	17	5.2W,5.0s		
BJI	II	15 19 01 00.4	38.30N	142.99E	12	5.5b,5.4		
MOS	II	15 19 01 02.7–1.1	38.36N	143.25E	33	5.5b,4.9s		
GCMT	II	15 19 01 03.4–.20	38.36N	143.49E	22–0	5.2W,4.9s		
NEIC	II	15 19 01 03.4–1.6	38.32N	143.16E	26–11	5.5W,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=150.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ31.00000°,λ101.00000°. NP2:ϕ_s19.00000°,δ59.00000°,λ83.00000°. $M_0$7.41000×10^{16}
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=108.1.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c99; s107,c194; Duration: 1ŝ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59±.02 $M_{\theta\theta}$-0.06±.01; $M_{\phi\phi}$-0.53±.01; $M_{r\theta}$0.24±.02; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s23.00000°,δ68.00000° ,λ91.00000°. NP2:ϕ_s200.00000°,δ22.00000°,λ87.00000°. Principal axes: T 0.8470,Plg67.0000°,Azm295.0000°; N 0.0280,Plg1.0000°,Azm202.0000° ; P -0.8750,Plg23.0000°,Azm112.0000° $M_0$0.86100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=131.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.14 $M_{\theta\theta}$-0.56 $M_{\phi\phi}$-0.58 $M_{r\theta}$1.00 $M_{\theta\phi}$0.27 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s180.00000° ,δ12.00000°,λ64.00000°. NP2:ϕ_s27.00000°,δ79.00000°,λ95.00000°. Principal axes: T 2.4700,Plg55.0000°,Azm304.0000°; N -0.7900,Plg5.0000°,Azm206.0000° ; P -1.6800,Plg34.0000°,Azm112.0000° $M_0$2.20000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**II**	**15 19 06 53.6–.52**	**38.43N–.04**	**142.98E–.04**	**28–3**	**5.2s,5.2b**	**611**	**1-145**
NIED	II	15 19 06 00	38.40N	143.40E	17	5.0W,5.2b		**¶16026458**
IDC	II	15 19 06 47.7–.52	38.27N	143.24E	0	4.9,4.8		
JMA	II	15 19 06 49.5–.20	38.36N	143.39E	36	5.3,4.8		
BJI	II	15 19 06 50.1	38.32N	142.79E	11	5.5b,5.3b		
GCMT	II	15 19 06 51.4–.30	38.40N	143.45E	26–1	5.1W,5.3b		
NEIC	II	15 19 06 51.4–.20	38.39N	142.80E	10	5.2b,5.3b		
ISCJB	II	15 19 06 52.8–.14	38.44N–.02	142.89E–.03	28	5.2s,5.1b		

MOS II 15 19 06 54.5–1.1 38.70N 142.82E 33 5.5b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ30.00000°,λ102.00000°. NP2:ϕ_s14.00000°,δ61.00000°,λ83.00000°. $M_0$3.70000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c28; s91,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.05±.30 $M_{\theta\theta}$-0.50±.16; $M_{\phi\phi}$-3.55±.19; $M_{r\theta}$1.11±.29; $M_{\theta\phi}$-1.03±.09; $M_{\phi r}$4.26±.32; Best double couple: NP1:ϕ_s15.00000°,δ69.00000°,λ89.00000°. NP2:ϕ_s199.00000°,δ21.00000°,λ93.00000°. Principal axes:
T 6.0140,Plg66.0000°,Azm283.0000°; N -0.1890,Plg1.0000°,Azm16.0000°
; P -5.8250,Plg24.0000°,Azm106.0000° $M_0$5.92000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=142.0. Recorded [1 JMA] in Fukushima, Iwate, Miyagi and Yamagata.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.1km az=144.3.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.3.

(406) Central Mid-Atlantic Ridge

ISC	**II**	**15 21 59 03.7–.32**	**0.22S–.05**	**17.84W–.05**	**23**	**5.1b,4.6s**	**695**	**8-146**
MOS	II	15 21 59 00.7–.87	0.00S	17.86W	10	5.3b,4.6s		**¶16026461**
IDC	II	15 21 59 00.5–.51	0.03S	17.93W	0	5.3L,4.8		
BJI	II	15 21 59 01.5	0.10S	18.00W	15	5.6b,5.4s		
ISCJB	II	15 21 59 02.2–.15	0.17S–.03	17.89W–.02	23	5.0b,4.6s		
GCMT	II	15 21 59 02.5–.10	0.11N	17.90W	18–0	5.4W,4.6s		
NEIC	II	15 21 59 02.5–.21	0.04S	17.93W	10	5.2b,4.6s		

ISC Event type se.
MOS Error ellipse: s-maj=10.4km s-min=4.8km az=58.5.
IDC Error ellipse: s-maj=18.4km s-min=10.3km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.7km az=164.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c161; s124,c228; Duration: 1§2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.02 $M_{\theta\theta}$0.46±.02; $M_{\phi\phi}$-0.49±.02; $M_{r\theta}$0.32±.05; $M_{\theta\phi}$-1.35±.02; $M_{\phi r}$-0.22±.04; Best double couple: NP1:ϕ_s79.00000°,δ80.00000°,λ169.00000°. NP2:ϕ_s171.00000°,δ79.00000°,λ10.00000°. Principal axes:
T 1.5160,Plg15.0000°,Azm35.0000°; N -0.0680,Plg75.0000°,Azm216.0000°
; P -1.4480,Plg0.0000°,Azm125.0000° $M_0$1.48200×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=3.8km az=163.0.

(263) Talaud Islands

ISC	**II**	**16 17 01 57.6–.53**	**3.86N–.07**	**127.1E–.10**	**36**	**4.2b,3.4s**	**36**	**2-123**
IDC	II	16 17 01 52.2–.68	3.71N	126.73E	0	4.2,4.1b		**¶16339750**
DJA	II	16 17 01 54.6–4.6	4N–12	127E–14	15–29	5.6b,5.1		
ISCJB	II	16 17 01 55.6–.44	3.86N–.05	127.12E–.10	36	4.1b,3.6s		
NEIC	II	16 17 01 58.0–1.8	3.79N	127.02E	42–17	4.4b,3.6s		

ISC Event type se.
IDC Error ellipse: s-maj=63.2km s-min=13.5km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=6.0km az=164.8.
NEIC Event type se. Error ellipse: s-maj=36.1km s-min=8.9km az=71.0.

(238) Ryukyu Islands

ISC	**II**	**16 23 45 12.2–.26**	**25.94N–.03**	**128.42E–.03**	**21–2**	**5.5b,5.0s**	**1253**	**1-175**
NIED	II	16 23 45 00	26.00N	128.50E	17	5.1W,5.0s		**¶16029824**
BJI	II	16 23 45 04.7	25.73N	128.64E	5	5.3,5.3s		
ISCJB	II	16 23 45 09.0–.08	25.91N–.01	128.33E–.01	6	5.4b,5.0s		
IDC	II	16 23 45 08.8–.28	25.92N	128.33E	0	5.3,5.3b		
NEIC	II	16 23 45 10.4–1.0	25.91N	128.28E	7–6	5.5b,5.3b		
GCMT	II	16 23 45 10.4–.30	25.88N	128.55E	21–1	5.2W,5.3b		
MOS	II	16 23 45 12.9–1.1	25.97N	128.33E	33	5.7b,5.1s		
JMA	II	16 23 45 12.7–.30	25.97N	128.42E	46–5	5.3,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ32.00000°,λ52.00000°. NP2:ϕ_s53.00000°,δ66.00000°,λ111.00000°. $M_0$5.72000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=135.9.
IDC Error ellipse: s-maj=12.5km s-min=7.9km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.5km az=118.0. Felt [III] at Ishikawa and [II] at Chatan, Ginowan, Naha, Okinawa and Yomitan. Also felt at Gushikawa and Urasoe. Recorded [2 JMA] on Okinawa and in the Kerama-retto and [1 JMA] on Aguni-jima.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c61; s57,c73; Duration: 1§0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.84±.31 $M_{\theta\theta}$-1.32±.18; $M_{\phi\phi}$-3.52±.22; $M_{r\theta}$4.48±.46; $M_{\theta\phi}$-1.18±.10; $M_{\phi r}$4.97±.52; Best double couple: NP1:ϕ_s38.00000°,δ73.00000°,λ96.00000°. NP2:ϕ_s197.00000°,δ18.00000°,λ69.00000°. Principal axes:
T 8.5280,Plg61.0000°,Azm318.0000°; N -1.0410,Plg6.0000°,Azm217.0000°
; P -7.4880,Plg28.0000°,Azm123.0000° $M_0$8.00800×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=3.8km az=106.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.

(270) Ceram Sea

ISC	**II**	**17 16 31 26.8–.68**	**1.71N–.06**	**120.93E–.06**	**37**	**3.9b**	**36**	**2-80**
KLM	II	17 16 30 18.9	2.01S	124.34E	97	5.7s,4.5b		**¶16358616**
IDC	II	17 16 31 21.5–.98	1.63N	121.17E	0	3.8,3.8L		
ISCJB	II	17 16 31 25.5–.40	1.69N–.04	120.85E–.05	37	3.9s,3.9b		
DJA	II	17 16 31 26.2–.30	2N–3.0	121E–3.0	10	4.7b,4.6b		
NEIC	II	17 16 31 26.5–.70	1.76N	121.19E	35	4.1b,4.6b		

ISC Event type se.
IDC Error ellipse: s-maj=47.9km s-min=16.9km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.2km az=157.5.
NEIC Event type se. Error ellipse: s-maj=31.6km s-min=11.2km az=58.0.

(186) Vanuatu Islands

ISC	**II**	**17 20 51 05.9–.30**	**14.21S–.04**	**166.51E–.04**	**27–1**	**5.4b,5.3s**	**470**	**8-165**
IDC	II	17 20 51 00.8–.41	14.16S	166.48E	0	5.2,5.2s		**¶16031171**
ISCJB	II	17 20 51 04.9–.17	14.20S–.03	166.50E–.03	34	5.3s,5.2b		
GCMT	II	17 20 51 04.6–.10	14.24S	166.29E	12	5.6W,5.2b		
NEIC	II	17 20 51 04.6–.30	14.17S	166.47E	22–2	5.6W,5.5b		
MOS	II	17 20 51 05.9–1.4	13.97S	166.38E	33	5.6b,5.3s		
BJI	II	17 20 51 05.8	14.20S	166.40E	34	5.5s,5.4b		
NEIC	II	17 20 51 06.0–.00	14.23S	166.17E	34	5.5s,5.4b		

ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=13.3km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.0km az=11.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c188; s128,c315;Duration: 1§6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.13±.04 $M_{\theta\theta}$-0.55±.03; $M_{\phi\phi}$-1.58±.04; $M_{r\theta}$1.27±.09; $M_{\theta\phi}$2.72±.03; $M_{\phi r}$-0.26±.10; Best double couple: NP1:ϕ_s112.00000°,δ63.00000°,λ51.00000°. NP2:ϕ_s353.00000°,δ46.00000°,λ141.00000°. Principal axes: T 2.8540,Plg54.0000°,Azm332.0000°; N 1.1480,Plg34.0000°,Azm132.0000°
; P -4.0050,Plg10.0000°,Azm229.0000° $M_0$3.42900×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.9km az=124.0.
MOS Error ellipse: s-maj=9.7km s-min=7.7km az=126.8.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$-0.60 $M_{r\theta}$-0.80 $M_{\theta\phi}$2.50 $M_{\phi r}$-0.40 Best double couple: NP1:ϕ_s276.00000°,δ71.00000°,λ27.00000°. NP2:ϕ_s177.00000°,δ65.00000°,λ159.00000°. Principal axes:
T 2.5000,Plg32.0000°,Azm137.0000°; N 0.6000,Plg57.0000°,Azm308.0000°
; P -3.1000,Plg4.0000°,Azm45.0000° $M_0$3.00000×10^{17}

(249) Luzon

ISC	**II**	**17 22 20 50.9–.79**	**16.44N–.03**	**120.43E–.05**	**33–4**	**4.5b,4.2s**	**169**	**0-98**
MAN	II	17 22 20 46	16.45N	120.48E	14	5.5b,5.0s		**¶16056947**
IDC	II	17 22 20 49.6–4.9	16.43N	120.77E	40–45	4.1s,4.1		
MOS	II	17 22 20 49.4–1.6	16.28N	120.63E	47	4.8b,4.1		
ISCJB	II	17 22 20 49.9–.42	16.49N–.02	120.41E–.03	34–4	4.4b,4.2s		
NEIC	II	17 22 20 54.5–.67	16.54N	120.45E	68–6	4.6b,4.2s		
BJI	II	17 22 20 57.1	16.87N	120.17E	63	4.7b,4.5s		
BKK	II	17 22 21 40.8–2.7	19N–14	117E–19	221–20	5.5b,5.0		

ISC Event type fe.
MAN Event type fe. INTENSITY IV - BAGUIO CITY; INTENSITY III - SAN FERNANDO LA UNION; INTENSITY II - BURGOS ILOCOS SUR.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV PIVS] at Baguio, [III PIVS] at San Fernando and [II PIVS] at Burgos. Also felt at Aringay, La Trinidad, Naguilian, San Juan, Sison and Tarlac.

(190) New Ireland region

ISC	**II**	**18 04 23 17.8–.32**	**4.66S–.03**	**153.18E–.04**	**53–2**	**5.3b,4.8s**	**789**	**1-158**
IDC	II	18 04 23 15.4–1.6	4.63S	153.08E	30–11	5.1,5.0b		**¶16031274**
ISCJB	II	18 04 23 15.4–.69	4.62S–.02	153.20E–.03	45–6	5.3b,4.8s		
BJI	II	18 04 23 16.0	4.52S	153.38E	57	5.5b,5.2b		
MOS	II	18 04 23 16.3–1.2	4.50S	153.05E	43	5.6b,5.1s		
NEIC	II	18 04 23 18.6–.51	4.61S	153.16E	58–4	5.5W,5.3b		
GCMT	II	18 04 23 18.6–.10	4.89S	153.04E	53–0	5.5W,5.3b		
DJA	II	18 04 23 20.4–.60	5S–3.0	153E–5.0	66–6	5.8,5.7b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Namatanai. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17} Nm; M_{rr}1.81 $M_{\theta\theta}$-1.45 $M_{\phi\phi}$-0.36 $M_{r\theta}$1.28 $M_{\theta\phi}$-0.20 $M_{\phi r}$0.31 Best double couple: NP1:ϕ_s261.00000°,δ26.00000°,λ93.00000°. NP2:ϕ_s78.00000°,δ64.00000°,λ89.00000°. Principal axes: T 2.2700,Plg71.0000°,Azm345.0000°; N -0.3200,Plg1.0000°,Azm78.0000°
; P -1.9500,Plg19.0000°,Azm169.0000° $M_0$2.10000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s121,c243; s111,c226;Duration: 1§4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.87±.03 $M_{\theta\theta}$-2.03±.02; $M_{\phi\phi}$0.15±.02; $M_{r\theta}$0.94±.02; $M_{\theta\phi}$0.09±.02; $M_{\phi r}$0.11±.02; Best double couple: NP1:ϕ_s88.00000°,δ58.00000°,λ85.00000°. NP2:ϕ_s277.00000°,δ32.00000°,λ98.00000°. Principal axes: T 2.0940,Plg76.0000°,Azm343.0000°
; N 0.1510,Plg4.0000°,Azm91.0000°; P -2.2470,Plg13.0000°,Azm182.0000°
$M_0$2.17100×10^{17}

(173) Tonga Islands

ISC	**II**	**18 08 59 25.4–.64**	**18.9S–.10**	**172.9W–.10**	**21**	**4.8b,3.6s**	**65**	**5-150**
IDC	II	18 08 59 21.6–.85	18.73S	172.93W	0	4.5,4.3		**¶16031879**
ISCJB	II	18 08 59 23.5–.32	18.81S–.09	173.03W–.08	21	4.8b,3.8s		
NEIC	II	18 08 59 26.6–.43	18.73S	172.94W	35	5.0b,3.8s		
BJI	II	18 08 59 31.0	19.21S	173.81W	32	5.5b,5.1b		

ISC Event type se.
IDC Error ellipse: s-maj=34.2km s-min=16.6km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=7.0km az=145.8.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=7.6km az=127.0.

(45) California-Baja California border region

ISC	**II**	**18 17 47 36.3–.72**	**32.05N–.02**	**115.10W–.02**	**7–4**	**4.9b,4.8s**	**632**	**0-146**
BJI	II	18 17 47 33.7	32.10N	115.10W	8	5.7b,5.2s		**¶16032043**
ISCJB	II	18 17 47 35.3–.15	32.07N–.02	115.08W–.01	10	4.8b,4.7s		
NEIC	II	18 17 47 36.7	32.06N	115.10W	8	5.2L,5.1		
ECX	II	18 17 47 36.6–.59	32.06N	115.09W	8	5.2L,5.0		
GCMT	II	18 17 47 36.7–.20	32.08N	115.06W	12	5.2W,5.0		
IDC	II	18 17 47 37.5–.66	32.26N	114.78W	0	4.7,4.6		
MEX	II	18 17 47 37.9–1.2	32.14N	115.01W	20–26	5.1,4.6		
MOS	II	18 17 47 38.0–1.8	32.33N	114.93W	17	5.2b,4.9s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=19.3.
NEIC Event type fe. Felt [II] at Ensenada, Mexicali, San Felipe and Tijuana. Also felt at Algodones and Rosarito. Felt at San Luis Rio Colorado, Sonora. Felt [III] at Somerton, Wellton and Yuma, Arizona. Also felt [III] at Calexico and Winterhaven and [II] in much of Imperial, Orange and San Diego Counties, California. Felt as far as Phoenix, Arizona and the Los Angeles area, California. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c83; s119,c188; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.46±.12 $M_{\theta\theta}$-5.73±.11; $M_{\phi\phi}$6.19±.11; $M_{r\theta}$-1.35±.32; $M_{\theta\phi}$-1.65±.12; $M_{\phi r}$-2.27±.31; Best double couple: NP1:ϕ_s37.00000°,δ90.00000°,λ-23.00000°. NP2:ϕ_s127.00000°,δ67.00000°,λ-180.00000°. Principal axes:
T 7.0030,Plg16.0000°,Azm84.0000°; N -0.5740,Plg67.0000°,Azm216.0000°
; P -6.4330,Plg16.0000°,Azm350.0000° $M_0$6.71800×10^{16}
IDC Error ellipse: s-maj=17.3km s-min=8.3km az=39.0.
MEX Error ellipse: s-maj=19.2km s-min=28.0km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.9km az=98.9.

(222) East of Kuril Islands

ISC	**II**	**18 20 20 30.9–.34**	**44.75N–.03**	**150.17E–.03**	**46–2**	**5.3b,4.4s**	**1594**	**2-151**
NIED	II	18 20 20 00	44.80N	150.10E	56	5.1W,4.4s		**¶16032241**
ISCJB	II	18 20 20 27.7–.60	44.71N–.02	150.28E–.02	33–4	5.3b,4.4s		
SKHL	II	18 20 20 29.7–.70	44.70N	150.33E	60–5	5.6b,5.3		
MOS	II	18 20 20 29.3–1.0	44.84N	150.14E	41	5.7b,4.4s		
GCMT	II	18 20 20 30.6–.20	44.84N	150.20E	39–0	5.1W,4.4s		
BJI	II	18 20 20 30.5	44.83N	149.94E	46	5.1b,5.1b		
NEIC	II	18 20 20 30.6–.42	44.82N	150.09E	40–3	5.4b,5.1b		
JMA	II	18 20 20 31.1–.40	44.79N	150.11E	30	5.0,5.1b		
IDC	II	18 20 20 33.7–.48	44.90N	150.15E	66–4	5.0,4.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ16.00000°. NP2:ϕ_s64.00000°,δ79.00000°,λ132.00000°. $M_0$5.61000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=1.7km az=166.2.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=102.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s86,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.97±.20 $M_{\theta\theta}$0.44±.13; $M_{\phi\phi}$-3.41±.13; $M_{r\theta}$1.97±.12; $M_{\theta\phi}$-3.11±.08; $M_{\phi r}$0.61±.11; Best double couple: NP1:ϕ_s58.00000°,δ63.00000°,λ128.00000°. NP2:ϕ_s177.00000°,δ45.00000°,λ39.00000°. Principal axes:
T 4.2050,Plg54.0000°,Azm16.0000°; N 1.2150,Plg34.0000°,Azm218.0000°
; P -5.4180,Plg10.0000°,Azm121.0000° $M_0$4.81100×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=158.0. Recorded [1 JMA] in eastern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=9.7km az=142.0.

(706) Northern Sumatera

ISC	**II**	**18 23 12 05.4–.29**	**1.97N–.03**	**97.91E–.03**	**50–2**	**5.3b,4.5s**	**906**	**1-160**
BJI	II	18 23 12 01.9	1.84N	98.06E	46	5.2b,5.1b		**¶16032243**
MOS	II	18 23 12 03.9–.85	1.98N	97.96E	51	5.7b,4.5s		
IDC	II	18 23 12 04.9–.60	1.93N	97.96E	46–5	5.1,4.9		
ISCJB	II	18 23 12 05.5–.29	1.95N–.02	97.89E–.02	64–2	5.3b,4.9		
GCMT	II	18 23 12 05.6–.20	1.86N	97.77E	44–0	5.2W,4.9		
NEIC	II	18 23 12 05.6–.38	1.90N	97.89E	53–3	5.3b,4.9		
DJA	II	18 23 12 06.8–.20	2N–2.0	98E–3.0	51–2	5.5b,5.5		
KLM	II	18 23 12 06.5	1.96N	97.79E	44	5.8s,5.4b		

ISC Event type fe.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=110.7.
IDC Error ellipse: s-maj=10.4km s-min=8.1km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=138.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c131; s92,c163; Duration: 1§0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.67±.02 $M_{\theta\theta}$-0.26±.01; $M_{\phi\phi}$-0.40±.01; $M_{r\theta}$0.44±.01; $M_{\theta\phi}$0.36±.01; $M_{\phi r}$-0.26±.01; Best double couple: NP1:ϕ_s129.00000°,δ64.00000°,λ79.00000°. NP2:ϕ_s333.00000°,δ28.00000°,λ111.00000°. Principal axes:
T 0.8600,Plg69.0000°,Azm16.0000°; N 0.0020,Plg10.0000°,Azm134.0000°
; P -0.8610,Plg18.0000°,Azm227.0000° $M_0$0.86000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=222.0. Felt [III] on Nias.

(193) Bougainville-Solomon Islands region

ISC	**II**	**20 09 17 11.6–.27**	**7.25S–.05**	**155.16E–.04**	**31**	**5.2b,4.4s**	**356**	**4-160**
DJA	II	20 09 17 03.0–1.0	7S–8.0	156E–10	10	5.2b,4.8		**¶16032971**
IDC	II	20 09 17 06.0–.37	7.18S	155.12E	0	4.9,4.8		
ISCJB	II	20 09 17 09.8–.17	7.26S–.03	155.09E–.03	31	5.2b,4.3s		
MOS	II	20 09 17 10.7–1.2	7.06S	154.92E	32	5.5b,4.3s		
NEIC	II	20 09 17 11.9–.16	7.26S	155.14E	35	5.3b,4.3s		
GCMT	II	20 09 17 11.9–.20	7.48S	155.20E	19–0	5.1W,4.3s		
BJI	II	20 09 17 14.0	6.66S	155.32E	55	5.3b,5.1b		

ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=10.9km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=143.5.
MOS Error ellipse: s-maj=9.0km s-min=7.4km az=79.1.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c47; s95,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.11±.28 $M_{\theta\theta}$-3.27±.16; $M_{\phi\phi}$-1.84±.17; $M_{r\theta}$3.65±.37; $M_{\theta\phi}$1.91±.10; $M_{\phi r}$-0.33±.39; Best double couple: NP1:ϕ_s109.00000°,δ63.00000°,λ77.00000°. NP2:ϕ_s316.00000°,δ29.00000°,λ114.00000°. Principal axes:
T 6.4930,Plg69.0000°,Azm353.0000°; N -0.8910,Plg12.0000°,Azm115.0000°
; P -5.6020,Plg17.0000°,Azm208.0000° $M_0$6.04800×10^{16}

(266) Northern Molucca Sea

ISC	**II**	**20 09 51 09.1–.70**	**1.21N–.03**	**126.35E–.04**	**57–6**	**4.9b,3.9s**	**370**	**1-160**
BJI	II	20 09 51 04.2	1.30N	126.30E	38	5.1b,4.8b		**¶16032972**
MOS	II	20 09 51 05.2–1.0	1.28N	126.21E	38	5.3b,4.8b		
DJA	II	20 09 51 06.0–.30	1N–3.0	126E–2.0	10	5.2b,5.1b		

ISCJB II 20 09 51 07.4–.41 1.27N–.02 126.33E–.02 56–4 5.0b,3.9s
NEIC II 20 09 51 08.7–.55 1.26N 126.31E 53–5 5.0b,3.9s
KLM II 20 09 51 09.1 1.34N 126.45E 64 6.0s,5.1L
IDC II 20 09 51 09.8–2.0 1.21N 126.30E 66–17 4.6,4.4
ISC Event type se.
MOS Error ellipse: s-maj=12.0km s-min=5.8km az=118.1.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=140.2.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=61.0.
IDC Error ellipse: s-maj=18.3km s-min=7.9km az=73.0.

(706) Northern Sumatera

ISC II 20 14 32 23.3–.34 1.32N–.03 97.17E–.03 29–1 5.3b,4.6s 658 0-159
IDC II 20 14 32 21.7–2.7 1.32N 97.16E 18–16 4.9,4.9 **¶16057007**
BJI II 20 14 32 21.8 1.20N 97.30E 40 5.4b,5.3b
ISCJB II 20 14 32 22.7–.40 1.34N–.02 97.18E–.02 36–3 5.1b,4.6s
DJA II 20 14 32 22.9–.70 1N–3.0 97E–5.0 26–5 5.4b,5.3
MOS II 20 14 32 22.3–.79 1.39N 97.21E 33 5.6b,4.7s
NEIC II 20 14 32 24.9–.54 1.36N 97.20E 40–4 5.3b,4.7s
KLM II 20 14 32 24.4 1.31N 97.07E 38 5.9s,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=13.6km s-min=10.1km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=141.4.
MOS Error ellipse: s-maj=8.0km s-min=4.4km az=111.9.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=47.0. Felt [III] at Gunungsitoli. Felt [II] at Singkil, Sumatra.

(272) Seram

ISC II 20 16 20 15.4–.41 3.07S–.04 130.49E–.03 24 4.4b 67 2-150
IDC II 20 16 20 11.6–.73 2.94S 130.64E 0 4.2,4.2L **¶16057011**
ISCJB II 20 16 20 13.2–.29 3.08S–.04 130.47E–.03 24 4.4b,3.2s
DJA II 20 16 20 16.7–.20 3S–3.0 130E–2.0 85–10 5.5b,5.0
BJI II 20 16 20 16.1 3.20S 130.40E 32 4.9b,4.9s
NEIC II 20 16 20 17.3–.77 3.09S 130.45E 43–8 4.4b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=30.5km s-min=15.6km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=10.2.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.9km az=49.0.

(218) Near east coast of Kamchatka Peninsula

ISC II 20 21 43 24.9–.18 55.84N–.02 162.24E–.02 39–2 6.0b,5.9s 2410 0-165
BJI II 20 21 43 18.2 55.77N 162.36E 18 6.3,6.2s **¶16033687**
NEIC II 20 21 43 20.0–.00 55.92N 162.11E 15 6.3,6.2s
KRSC II 20 21 43 22.8–.79 55.73N 162.48E 48–17 6.2L,6.2s
IDC II 20 21 43 23.6–1.2 55.89N 162.20E 29–7 5.8,5.8s
NEIC II 20 21 43 24.1–.07 55.92N 162.12E 33 6.1W,6.1b
MOS II 20 21 43 24.4–.96 55.85N 162.27E 51 6.2b,6.0s
GCMT II 20 21 43 24.1–.10 55.80N 162.60E 25 6.2W,6.0s
ISCJB II 20 21 43 24.7–.21 55.87N–.01 162.26E–.02 54–1 6.0b,5.9s
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s53 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.50 $M_{\theta\theta}$0.20 $M_{\phi\phi}$0.30 $M_{r\theta}$-0.20 $M_{\theta\phi}$0.00 $M_{\theta r}$1.50 Best double couple: NP1:ϕ_s174.00000° ,δ83.00000°,λ-90.00000°. NP2:ϕ_s1.00000°,δ7.00000°,λ-83.00000°. Principal axes: T 1.5000,Plg38.0000°,Azm264.0000°; N 0.2000,Plg0.0000°,Azm173.0000° ; P -1.7000,Plg51.0000°,Azm82.0000° $M_0$2.00000×10^{18}
KRSC Event type se.
NEIC Event type fe. Felt [IV] at Klyuchi and Ust'Kamchatsk and [III] at Petropavlovsk-Kamchatskiy. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s72 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.27 $M_{\theta\theta}$4.06 $M_{\phi\phi}$0.21 $M_{r\theta}$0.88 $M_{\theta\phi}$1.20 $M_{\theta r}$7.15 Best double couple: NP1:ϕ_s81.00000°,δ23.00000° ,λ-34.00000°. NP2:ϕ_s203.00000°,δ78.00000°,λ-109.00000°. Principal axes: T 6.4100,Plg30.0000°,Azm308.0000°; N 3.1200,Plg18.0000°,Azm207.0000° ; P -9.5200,Plg54.0000°,Azm90.0000° $M_0$8.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ5.00000°,λ-90.00000°. NP2: ϕ_s175.00000°,δ85.00000°,λ-90.00000°. Principal axes: T Plg40.0000°,Azm265.0000° ; N Plg0.0000°,Azm0.0000°; P Plg50.0000°,Azm85.0000°
MOS Event type fe. Mo 1.2E18 n.m, Mw 6.0 (OBN) Fault plane solution: P-wave C43, D110 . Felt (III-IV) at Ust'-Kamchatsk, Kluchi; (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ71.00000° ,λ-106.00000°. NP2:ϕ_s37.00000°,δ24.00000°,λ-50.00000°. Principal axes: T Plg25.0000° ,Azm277.0000°; N Plg15.0000°,Azm180.0000°; P Plg60.0000°,Azm61.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c313; s133,c368;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.25±.01 $M_{\theta\theta}$0.18±.01; $M_{\phi\phi}$0.06±.01; $M_{r\theta}$0.37±.02; $M_{\theta\phi}$-0.01±.01; $M_{\phi r}$2.30±.01; Best double couple: NP1:ϕ_s189.00000°,δ88.00000°,λ-90.00000°. NP2:ϕ_s17.00000° ,δ2.00000°,λ-83.00000°. Principal axes: T 2.2440,Plg43.0000°,Azm280.0000° ; N 0.1820,Plg0.0000°,Azm189.0000°; P -2.4270,Plg47.0000°,Azm99.0000° $M_0$2.33500×10^{18}
ISCJB Event type fe.

(144) Southern Chile

ISC II 21 05 38 47.0–.26 45.74S–.04 72.40W–.06 10 5.3b,4.7s 797 0-178
GUC II 21 05 38 42.6–.73 45.91S 73.20W 17–6 4.9L,4.7s **¶16168884**
IDC II 21 05 38 44.8–.42 45.85S 72.48W 0 4.9,4.9b
ISCJB II 21 05 38 45.7–.17 45.76S–.04 72.27W–.07 10 5.3b,4.7s
MOS II 21 05 38 50.2–1.0 45.66S 72.71W 33 5.5b,4.7s
NEIC II 21 05 38 51.0–.91 45.76S 72.36W 37–7 5.3b,4.8s
BJI II 21 05 38 51.3 45.70S 72.30W 35 5.5s,5.3b
GCMT II 21 05 38 51.0–.40 46.02S 72.55W 18–1 5.0W,5.3b
ISC Event type fe.
GUC Error ellipse: s-maj=1.7km s-min=12.8km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=12.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=158.7.
MOS Error ellipse: s-maj=22.3km s-min=9.0km az=98.7.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=74.0. Felt [II] at Coihaique and Puerto Aisen.
GCMT Error ellipse: s-maj=6.7km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c30; s59,c75; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.22 $M_{\theta\theta}$1.94±.13; $M_{\phi\phi}$-0.43±.18; $M_{r\theta}$0.09±.28; $M_{\theta\phi}$1.59±.12; $M_{\phi r}$-3.72±.69; Best double couple: NP1:ϕ_s18.00000°,δ79.00000° ,λ-121.00000°. NP2:ϕ_s271.00000°,δ32.00000°,λ-20.00000°. Principal axes: T 3.6340,Plg28.0000°,Azm132.0000°; N 1.2740,Plg30.0000°,Azm24.0000° ; P -4.9150,Plg47.0000°,Azm256.0000° $M_0$4.27400×10^{16}

(132) Santiago del Estero Province

ISC II 21 06 58 36.7–.29 27.13S–.03 64.70W–.04 14–1 6.0b,5.4s 1492 1-176
SJA II 21 06 58 34.6–.42 27.27S 64.66W 10 5.6L,5.4W **¶16033753**
IDC II 21 06 58 34.4–.31 27.13S 64.76W 0 5.3,5.3b
ISCJB II 21 06 58 36.0–.14 27.05S–.02 64.75W–.03 18 5.8b,5.4s
BJI II 21 06 58 35.1 26.76S 64.95W 11 5.7b,5.7s
NEIC II 21 06 58 36.4–.38 27.15S 64.69W 13–2 6.0b,5.9
GCMT II 21 06 58 36.4–.10 27.22S 64.80W 24–0 5.6W,5.9
MOS II 21 06 58 39.4–.95 26.81S 64.69W 33 6.1b,5.4s
ISC Event type fe.
SJA Error ellipse: s-maj=0.8km s-min=2.2km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=17.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=62.0. Felt [VI] in the Agua Dulce-Ranchillos area; [V] at San Miguel de Tucuman and Termas de Rio Hondo; [IV] at Santiago del Estero; [III] at Catamarca and Salta; [II] at Cordoba. Also felt at La Rioja and in Chaco. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}2.19 $M_{\theta\theta}$0.48 $M_{\phi\phi}$-2.68 $M_{r\theta}$-1.01 $M_{\theta\phi}$-1.89 $M_{\phi r}$0.41 Best double couple: NP1:ϕ_s355.00000°,δ54.00000° ,λ45.00000°. NP2:ϕ_s235.00000°,δ55.00000°,λ134.00000°. Principal axes: T 2.9400,Plg55.0000°,Azm204.0000°; N 0.6200,Plg35.0000°,Azm26.0000° ; P -3.5600,Plg1.0000°,Azm295.0000° $M_0$3.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c139; s103,c234;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32±.04 $M_{\theta\theta}$0.24±.03; $M_{\phi\phi}$-2.56±.04; $M_{r\theta}$-0.56±.05; $M_{\theta\phi}$0.32±.02; $M_{\phi r}$1.04±.06; Best double couple: NP1: ϕ_s344.00000°,δ58.00000°,λ79.00000°. NP2:ϕ_s184.00000°,δ34.00000°,λ108.00000°. Principal axes: T 2.6300,Plg74.0000°,Azm222.0000°; N 0.2040,Plg10.0000°,Azm350.0000° ; P -2.8320,Plg12.0000°,Azm82.0000° $M_0$2.73100×10^{17}
MOS Error ellipse: s-maj=11.2km s-min=6.6km az=112.5.

(162) South Island

ISC II 21 23 51 42.3–.35 43.49S–.02 172.71E–.02 5–1 6.2s,5.8b 1526 0-178
ISCJB II 21 23 51 41.4–.18 43.43S–.02 172.84E–.03 10 6.2s,5.8b **¶16168897**
BJI II 21 23 51 41.0 43.50S 172.80E 5 6.4b,6.3s
NEIC II 21 23 51 42.0–.00 43.51S 172.44E 15 6.4b,6.3s
IDC II 21 23 51 42.3–1.1 43.44S 172.59E 4–6 6.0s,6.0
MOS II 21 23 51 42.1–.98 43.46S 172.56E 10 6.2s,5.9b
NEIC II 21 23 51 42.4 43.58S 172.68E 6 6.5,6.3L
WEL II 21 23 51 42.3–.11 43.58S 172.68E 5–0 6.3L,6.2W
GCMT II 21 23 51 43.0–.10 43.60S 172.52E 12 6.1W,6.2W
NEIC II 21 23 52 02.8–.00 43.57S 172.73E 10 6.1W,6.2W
ISC Event type de.
ISCJB Event type de. Error ellipse: s-maj=3.9km s-min=2.1km az=136.0.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{18}Nm; M_{rr}0.60 $M_{\theta\theta}$0.60 $M_{\phi\phi}$-1.20 $M_{r\theta}$0.50 $M_{\theta\phi}$-1.00 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s166.00000° ,δ70.00000°,λ33.00000°. NP2:ϕ_s64.00000°,δ59.00000°,λ156.00000°. Principal axes: T 1.6000,Plg37.0000°,Azm28.0000°; N 0.1000,Plg51.0000°,Azm194.0000° ; P -1.7000,Plg6.0000°,Azm293.0000° $M_0$2.00000×10^{18}
IDC Error ellipse: s-maj=8.8km s-min=6.9km az=20.0.
MOS Error ellipse: s-maj=11.9km s-min=8.7km az=115.3.
NEIC Event type de. At least 181 people killed, 1,500 injured and about 100,000 buildings destroyed or damaged [VIII] in the Christchurch-Lyttleton area. Landslides and liquefaction occurred in the area. Felt in much of Canterbury and as far as Invercargill and Palmerston North. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After WEL. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s58.00000°,δ64.00000°,λ146.00000°. NP2: ϕ_s165.00000°,δ60.00000°,λ31.00000°. Principal axes: T Plg42.0000°,Azm20.0000° ; N Plg0.0000°,Azm0.0000°; P Plg2.0000°,Azm112.0000°
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Bay of Plenty to Southland, maximum reported intensity MM 8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c261; s141,c464;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}1.09±.01 $M_{\theta\theta}$0.60±.01; $M_{\phi\phi}$-1.70±.01; $M_{r\theta}$0.32±.03; $M_{\theta\phi}$-1.20±.01; $M_{\phi r}$-0.27±.03; Best double couple: NP1:ϕ_s168.00000°,δ62.00000°,λ36.00000°. NP2:ϕ_s59.00000° ,δ59.00000°,λ147.00000°. Principal axes: T 1.4990,Plg44.0000°,Azm25.0000° ; N 0.7090,Plg46.0000°,Azm201.0000°; P -2.2160,Plg2.0000°,Azm293.0000° $M_0$1.85800×10^{18}
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}1.11 $M_{\theta\theta}$0.58 $M_{\phi\phi}$-1.69 $M_{r\theta}$0.20 $M_{\theta\phi}$-1.23 $M_{\phi r}$-0.40 Best double couple: NP1:ϕ_s170.00000° ,δ64.00000°,λ39.00000°. NP2:ϕ_s60.00000°,δ56.00000°,λ148.00000°. Principal axes: T 1.4700,Plg45.0000°,Azm28.0000°; N 0.7800,Plg44.0000°,Azm198.0000° ; P -2.2500,Plg5.0000°,Azm293.0000° $M_0$1.90000×10^{18}

(162) South Island

ISC II 22 00 04 17.6–.74 43.57S–.03 172.85E–.03 1–4 5.8s,5.2b 631 0-175
IDC II 22 00 04 17.7–.55 43.54S 172.68E 0 5.1,5.0 **¶16057215**
BJI II 22 00 04 17.6 43.90S 172.40E 5 6.1b,6.1s
ISCJB II 22 00 04 17.1–.23 43.56S–.03 172.88E–.03 10 5.8s,5.3b
WEL II 22 00 04 19.3–.10 43.59S 172.66E 6–0 5.8L,5.5W
GCMT II 22 00 04 19.4–.20 43.50S 172.56E 12 5.5W,5.5W
NEIC II 22 00 04 19.4 43.59S 172.65E 6 5.7L,5.7b
MOS II 22 00 04 19.0–1.4 43.34S 172.65E 10 5.4b,5.7b
ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=11.6km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.0km az=143.2.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt from Nelson to Southland, maximum reported intensity MM 7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s10,c10; s108,c192;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.33±.06 $M_{\theta\theta}$1.31±.05; $M_{\phi\phi}$-1.64±.05; $M_{r\theta}$0.40±.18; $M_{\theta\phi}$-1.76±.05; $M_{\phi r}$0.10±.18; Best double couple: NP1:ϕ_s70.00000° ,δ87.00000°,λ169.00000°. NP2:ϕ_s160.00000°,δ79.00000°,λ3.00000°. Principal axes: T 2.1850,Plg10.0000°,Azm24.0000°; N 0.2960,Plg79.0000°,Azm234.0000° ; P -2.4860,Plg5.0000°,Azm115.0000° $M_0$2.33500×10^{17}
NEIC Event type fe. Felt strongly in the Christchurch area and [IV] at Dunedin and Oamaru. Felt widely in Canterbury and as far as Invercargill and Wellington. After WEL. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.04 $M_{\theta\theta}$2.15 $M_{\phi\phi}$-1.11 $M_{r\theta}$0.77 $M_{\theta\phi}$-1.61 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s66.00000°,δ70.00000°,λ-178.00000°. NP2:ϕ_s336.00000° ,δ88.00000°,λ-20.00000°. Principal axes: T 3.0100,Plg13.0000°,Azm23.0000° ; N -1.1900,Plg70.0000°,Azm150.0000°; P -1.8200,Plg16.0000°,Azm289.0000° $M_0$2.60000×10^{17}
MOS Error ellipse: s-maj=14.2km s-min=11.1km az=117.1.

(162) South Island

ISC II 22 01 50 28.6–.76 43.59S–.03 172.74E–.03 5–4 5.5s,5.4b 694 0-175
ISCJB II 22 01 50 26.8–.20 43.61S–.02 172.83E–.03 10 5.5s,5.4b **¶16168899**
IDC II 22 01 50 28.4–.43 43.43S 172.67E 0 5.2,5.2s
BJI II 22 01 50 28.3 43.94S 172.20E 7 6.0b,5.5s
NEIC II 22 01 50 29.7 43.60S 172.62E 7 5.9L,5.6W
WEL II 22 01 50 29.8–.09 43.59S 172.63E 7–0 5.9L,5.6W
MOS II 22 01 50 29.3–1.2 43.48S 172.52E 10 5.4b,5.4s
GCMT II 22 01 50 29.7–.10 43.50S 172.55E 12 5.6W,5.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=1.8km az=141.5.
IDC Error ellipse: s-maj=15.6km s-min=10.8km az=168.0.
NEIC Event type fe. Felt strongly in the Christchurch area. After WEL. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.23 $M_{\theta\theta}$1.92 $M_{\phi\phi}$-1.69 $M_{r\theta}$-0.27 $M_{\theta\phi}$-1.75 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s335.00000°,δ77.00000°,λ-15.00000°. NP2:ϕ_s69.00000° ,δ75.00000°,λ-167.00000°. Principal axes: T 2.6300,Plg1.0000°,Azm22.0000° ; N 0.0800,Plg71.0000°,Azm116.0000°; P -2.7100,Plg19.0000°,Azm292.0000° $M_0$2.70000×10^{17}
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt from Fiordland to Wellington, maximum reported intensity MM 7.
MOS Error ellipse: s-maj=14.0km s-min=11.1km az=125.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s72,c109; s131,c306;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.04 $M_{\theta\theta}$2.12±.04; $M_{\phi\phi}$-2.15±.03; $M_{r\theta}$0.50±.10; $M_{\theta\phi}$-2.00±.03; $M_{\phi r}$0.83±.11; Best double couple: NP1: ϕ_s248.00000°,δ81.00000°,λ-166.00000°. NP2:ϕ_s155.00000°,δ76.00000°,λ-9.00000°. Principal axes: T 2.9200,Plg3.0000°,Azm21.0000°; N 0.3010,Plg73.0000°,Azm280.0000° ; P -3.2190,Plg16.0000°,Azm112.0000° $M_0$3.06900×10^{17}

(238) Ryukyu Islands

ISC II 22 04 56 19.8–.44 26.39N–.03 128.90E–.03 20–2 5.3b,4.8s 734 1-169
NIED II 22 04 56 00 26.30N 129.00E 11 5.0W,4.8s **¶16057298**
ISCJB II 22 04 56 16.7–.73 26.46N–.02 128.73E–.02 5–4 5.1b,4.7s
IDC II 22 04 56 16.8–.40 26.46N 128.81E 0 5.0,4.9
BJI II 22 04 56 17.1 26.31N 128.96E 27 5.2s,5.1
JMA II 22 04 56 18.9–.20 26.36N 128.95E 33–4 5.2,5.1
NEIC II 22 04 56 19.7–1.1 26.42N 128.71E 16–6 5.3b,5.1W
MOS II 22 04 56 19.0–1.1 26.45N 128.74E 23 5.5b,5.1s
GCMT II 22 04 56 20.0–.30 26.32N 128.84E 20–0 5.0W,5.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ46.00000°,λ108.00000°. NP2:ϕ_s27.00000°,δ47.00000°,λ72.00000°. $M_0$3.10000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=145.2.
IDC Error ellipse: s-maj=13.3km s-min=10.7km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=135.0. Felt [II] at Chatan, Okinawa. Also felt at Nago, Naha, Urasoe and Yomitan. Recorded [2 JMA] on Okinawa and Yoron-jima. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}5.28 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-5.09 $M_{r\theta}$1.07 $M_{\theta\phi}$-1.91 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s191.00000°,δ39.00000° ,λ78.00000°. NP2:ϕ_s27.00000°,δ52.00000°,λ100.00000°. Principal axes: T 5.5100,Plg80.0000°,Azm341.0000°; N 0.3700,Plg8.0000°,Azm201.0000° ; P -5.8900,Plg6.0000°,Azm110.0000° $M_0$5.70000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=108.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c58; s86,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.76±.19 $M_{\theta\theta}$-1.36±.11; $M_{\phi\phi}$-2.39±.13; $M_{r\theta}$2.03±.23; $M_{\theta\phi}$-1.53±.07; $M_{\phi r}$1.65±.23; Best double couple: NP1:ϕ_s44.00000°,δ63.00000° ,λ97.00000°. NP2:ϕ_s209.00000°,δ28.00000°,λ76.00000°. Principal axes: T 4.6400,Plg71.0000°,Azm330.0000°; N -0.3370,Plg6.0000°,Azm221.0000° ; P -4.2920,Plg18.0000°,Azm129.0000° $M_0$4.46600×10^{16}

(74) Near coast of Nicaragua

ISC II 23 03 01 38.4–.39 12.57N–.03 87.69W–.03 60–3 5.3b,5.0s 1137 1-163
MOS II 23 03 01 33.4–1.4 12.42N 87.74W 33 5.6b,4.7s **¶16117338**
GCMT II 23 03 01 36.4–.10 12.30N 88.08W 51–0 5.6W,4.7s
NEIC II 23 03 01 36.4–.24 12.39N 87.82W 41 5.7,5.7W

IDC II 23 03 01 36.2–1.5 12.86N 87.16W 37–11 4.8,4.8
CASC II 23 03 01 37.7–2.0 12.48N 87.78W 56–26 5.5b,5.3L
ISCJB II 23 03 01 37.9–.23 12.54N–.02 87.72W–.02 71–2 5.2b,5.3L
BJI II 23 03 01 40.1 12.50N 87.70W 64 5.5s,5.4
ISC Event type fe.
MOS Error ellipse: s-maj=11.8km s-min=4.9km az=110.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c241; s119,c299;Duration: 1$s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.34±.04 $M_{\theta\theta}$-2.69±.03; $M_{\phi\phi}$-0.64±.04; $M_{r\theta}$0.38±.03; $M_{\theta\phi}$1.76±.03; $M_{\phi r}$-0.33±.03; Best double couple: NP1: ϕ_s122.00000°,δ49.00000°,λ92.00000°. NP2:ϕ_s298.00000°,δ41.00000°,λ87.00000°. Principal axes: T 3.3770,Plg86.0000°,Azm54.0000°; N 0.3660,Plg2.0000°,Azm300.0000° ; P -3.7370,Plg4.0000°,Azm210.0000° $M_0$3.55700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=210.0. Felt [IV] at Chinandega, [III] at Leon and [II] at Managua. Felt widely in the Chinandega-Managua area and as far as Bonanza. Felt [III] at San Salvador and [II] at Concepcion de Ataco and Mejicanos, El Salvador. Felt in much of El Salvador and at Ciudad Choluteca, Honduras. Moment Tensor Solution. s55 Moment tensor: Scale 10^{17}Nm; M_{rr}3.67 $M_{\theta\theta}$-1.27 $M_{\phi\phi}$-2.40 $M_{r\theta}$0.16 $M_{\theta\phi}$2.34 $M_{\phi r}$-0.23 Best double couple: NP1:ϕ_s142.00000°,δ47.00000°,λ90.00000°. NP2:ϕ_s321.00000° ,δ43.00000°,λ89.00000°. Principal axes: T 3.6800,Plg88.0000°,Azm62.0000° ; N 0.5700,Plg0.0000°,Azm322.0000°; P -4.2500,Plg2.0000°,Azm232.0000° $M_0$4.00000×10^{17}
IDC Error ellipse: s-maj=18.7km s-min=8.2km az=55.0.
CASC Error ellipse: s-maj=9.0km s-min=5.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.0km az=36.2.

(136) Central Chile

ISC	**II**	**23 11 03 54.6–.48**	**36.12S–.06**	**73.38W–.08**	**35**	**4.5b,3.8s**	**64**	**0-174**
IDC	II	23 11 03 50.2–.80	36.07S	73.38W	0	4.4,4.4L		**¶16155403**
ISCJB	II	23 11 03 52.8–.44	36.17S–.05	73.48W–.06	33	4.5b,3.7s		
GUC	II	23 11 03 52.8–.56	36.17S	73.49W	50–5	4.8L,3.7s		
BJI	II	23 11 03 53.2	37.02S	72.81W	35	5.6s,5.3		
NEIC	II	23 11 03 54.7–2.8	36.16S	73.42W	34–19	4.8L,4.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=28.7km s-min=21.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.1km az=136.8.
GUC Error ellipse: s-maj=7.0km s-min=10.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.7km s-min=7.5km az=80.0. Felt [III] at Cobquecura and Concepcion; [II] at Chiguayante, Penco, San Pedro de la Paz and Talcahuano. Also felt at Tome.

(734) Laos

ISC	**II**	**23 15 53 16.0–.94**	**18.78N–.03**	**101.73E–.02**	**12–6**	**4.6b,3.8s**	**196**	**1-94**
BJI	II	23 15 53 12.7	18.61N	101.78E	10	4.8b,4.6L		**¶16152143**
IDC	II	23 15 53 13.7–.56	18.86N	101.75E	0	5.2L,4.4		
ISCJB	II	23 15 53 15.6–.68	18.77N–.02	101.73E–.02	21–5	4.5b,3.7s		
NEIC	II	23 15 53 16.3–.34	18.92N	101.73E	10	4.6b,3.7s		
BKK	II	23 15 53 16.7–.60	19N–3.0	102E–2.0	21–8	5.6b,5.4		
MOS	II	23 15 53 17.0–.96	18.80N	101.75E	33	4.8b,5.4		
PLV	II	23 15 53 18.1–.75	18.87N	101.98E	2–3	4.4L,5.4		

ISC Event type fe.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=175.3.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.8km az=55.0. Felt [II] at Phonhong and Vientiane. Felt [IV] at Nam Som, [III] at Nong Khai and [II] at Udon Thani, Thailand. Also felt at Khon Kaen, Nan, Pong and Tha Bo.
MOS Error ellipse: s-maj=9.5km s-min=6.4km az=117.1.
PLV Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.

(274) Southern Sumatera

ISC	**II**	**25 22 08 37.6–.45**	**3.04S–.04**	**101.03E–.04**	**48–3**	**5.0b,3.9s**	**451**	**1-150**
BJI	II	25 22 08 36.3	2.92S	101.05E	49	5.1b,4.9b		**¶16158980**
MOS	II	25 22 08 36.7–.97	2.72S	101.29E	44	5.3b,4.9b		
NEIC	II	25 22 08 37.7–.65	3.05S	101.00E	50–5	5.1b,4.9b		
IDC	II	25 22 08 38.1–2.4	2.88S	101.14E	46–21	4.9,4.8L		
DJA	II	25 22 08 38.9–.40	3S–2.0	101E–2.0	30–4	5.2b,5.1		
ISCJB	II	25 22 08 38.3–.39	2.96S–.03	101.07E–.03	66–3	4.8b,5.1		
KLM	II	25 22 08 39.3	3.02S	100.99E	42	5.8s,5.1L		

ISC Event type fe.
MOS Error ellipse: s-maj=11.4km s-min=5.0km az=110.7.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=4.5km az=53.0. Felt [III] at Mukomuko.
IDC Error ellipse: s-maj=16.5km s-min=10.4km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.4km az=42.1.

(184) Santa Cruz Islands

ISC	**II**	**26 02 10 24.5–.26**	**10.60S–.03**	**164.95E–.03**	**53–1**	**5.4b,5.3s**	**737**	**5-163**
ISCJB	II	26 02 10 22.7–.11	10.64S–.02	164.88E–.02	49	5.4b,5.3s		**¶16159037**
BJI	II	26 02 10 23.6	10.21S	165.04E	49	5.5s,5.3		
GCMT	II	26 02 10 24.2–.10	10.58S	164.78E	59–0	5.9W,5.3		
NEIC	II	26 02 10 24.2–.13	10.62S	164.90E	49	5.9W,5.6b		
MOS	II	26 02 10 25.0–1.1	10.56S	164.79E	66	5.6b,5.3s		
IDC	II	26 02 10 26.2–1.8	10.65S	164.92E	71–14	5.1s,5.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=3.0km az=138.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c267; s133,c380;Duration: 2$s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13±.01 $M_{\theta\theta}$0.78±.01; $M_{\phi\phi}$-0.90±.01; $M_{r\theta}$-0.15±.01; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$-0.12±.01; Best double couple: NP1: ϕ_s213.00000°,δ84.00000°,λ168.00000°. NP2:ϕ_s304.00000°,δ78.00000°,λ6.00000°. Principal axes: T 0.8860,Plg13.0000°,Azm168.0000°; N 0.0940,Plg76.0000°,Azm8.0000° ; P -0.9800,Plg4.0000°,Azm259.0000° $M_0$0.93300×10^{18}
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.7km az=130.0. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}0.22 $M_{\theta\theta}$0.87 $M_{\phi\phi}$-1.09 $M_{r\theta}$-0.12 $M_{\theta\phi}$0.20 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s219.00000°,δ83.00000°,λ174.00000°. NP2:ϕ_s310.00000° ,δ84.00000°,λ7.00000°. Principal axes: T 0.9100,Plg10.0000°,Azm174.0000° ; N 0.2000,Plg80.0000°,Azm351.0000°; P -1.1100,Plg1.0000°,Azm84.0000° $M_0$1.00000×10^{18}
MOS Error ellipse: s-maj=7.1km s-min=6.3km az=90.4.
IDC Error ellipse: s-maj=9.3km s-min=8.3km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**II**	**26 15 38 43.1–.34**	**37.32N–.03**	**141.78E–.03**	**27–2**	**5.4b,4.5s**	**924**	**1-155**
NIED	II	26 15 38 00	37.30N	141.90E	38	5.1W,4.5s		**¶16160048**
BJI	II	26 15 38 37.3	37.20N	141.86E	11	5.3b,5.2b		
MOS	II	26 15 38 41.9–.95	37.51N	141.68E	21	5.7b,4.3s		
GCMT	II	26 15 38 43.8–.20	37.35N	141.89E	36–0	5.1W,4.3s		
JMA	II	26 15 38 43.1–.20	37.30N	141.84E	43–3	5.2,4.3s		
NEIC	II	26 15 38 43.8–.15	37.36N	141.65E	27	5.2b,4.3s		
IDC	II	26 15 38 44.9–1.8	37.31N	141.80E	40–15	5.1,5.0		
ISCJB	II	26 15 38 44.3–.33	37.32N–.02	141.71E–.02	45–2	5.3b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ22.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ81.00000°. $M_0$4.90000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c93; s94,c159;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.98±.20 $M_{\theta\theta}$-1.32±.13; $M_{\phi\phi}$-3.65±.13; $M_{r\theta}$0.99±.13; $M_{\theta\phi}$-1.85±.07; $M_{\phi r}$4.09±.13; Best double couple: NP1:ϕ_s19.00000°,δ66.00000°,λ83.00000°. NP2:ϕ_s217.00000°,δ25.00000°,λ106.00000°. Principal axes: T 6.6180,Plg69.0000°,Azm275.0000°; N -0.4310,Plg7.0000°,Azm22.0000° ; P -6.1770,Plg20.0000°,Azm115.0000° $M_0$6.39700×10^{16}
JMA Event type fe.
NEIC Event type fe. Felt [III] at Sendai and [II] at Tokyo. Felt widely in eastern Honshu. Recorded [3 JMA] in Fukushima; [2 JMA] in Ibaraki, Miyagi, Tochigi and Yamagata; [1 JMA] in Akita, Aomori, Chiba, Gumma, Iwate, Kanagawa, Nagano, Niigata, Saitama and Tokyo.
ISCJB Event type fe.

(694) Central East Pacific Rise

ISC	**II**	**26 17 17 53.7–.33**	**9.23S–.07**	**109.68W–.07**	**20**	**5.2b,5.0s**	**804**	**21-159**
IDC	II	26 17 17 50.5–.75	9.16S	109.77W	0	4.8s,4.8		**¶602357348**
MOS	II	26 17 17 51.6–1.1	9.02S	109.49W	10	5.3b,4.8		
ISCJB	II	26 17 17 51.8–.26	9.16S–.03	109.66W–.04	20	5.2b,4.9s		
NEIC	II	26 17 17 52.1–.21	9.23S	109.61W	10	5.2b,4.9s		
GCMT	II	26 17 17 52.1–.10	9.17S	109.73W	14–0	5.4W,4.9s		
BJI	II	26 17 17 53.2	9.20S	109.60W	10	5.7b,5.6s		

ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=15.0km az=57.0.
MOS Error ellipse: s-maj=15.4km s-min=5.9km az=87.9.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=148.6.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=62.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c163; s122,c221; Duration: 1$s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21±.02 $M_{\theta\theta}$0.85±.02; $M_{\phi\phi}$-0.64±.02; $M_{r\theta}$0.01±.03; $M_{\theta\phi}$1.36±.02; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s194.00000°,δ89.00000° ,λ-177.00000°. NP2:ϕ_s104.00000°,δ87.00000°,λ-1.00000°. Principal axes: T 1.6590,Plg1.0000°,Azm329.0000°; N -0.2070,Plg87.0000°,Azm207.0000° ; P -1.4510,Plg2.0000°,Azm59.0000° $M_0$1.55500×10^{17}

(684) Southern East Pacific Rise

ISC	**II**	**26 19 24 21.6–.43**	**54.5S–.10**	**119.3W–.10**	**10**	**5.1s,4.8b**	**55**	**29-164**
IDC	II	26 19 24 18.6–.62	54.90S	119.27W	0	5.0s,5.0		**¶16172997**
ISCJB	II	26 19 24 19.6–.50	54.58S–.09	119.3W–.20	10	5.0s,4.8b		
NEIC	II	26 19 24 21.0–.44	54.66S	119.31W	10	5.1b,4.8b		
GCMT	II	26 19 24 21.0–.10	54.57S	119.41W	12	5.4W,4.8b		
BJI	II	26 19 24 22.9	54.60S	119.30W	10	5.6b,5.3s		

ISC Event type se.
IDC Error ellipse: s-maj=46.0km s-min=19.9km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=12.3km az=142.1.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=16.0km az=133.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c164; s116,c208; Duration: 1$s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.08±.02 $M_{\theta\theta}$0.69±.02; $M_{\phi\phi}$-0.61±.02; $M_{r\theta}$-0.24±.05; $M_{\theta\phi}$1.39±.02; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s103.00000°,δ89.00000° ,λ-9.00000°. NP2:ϕ_s193.00000°,δ81.00000°,λ-179.00000°. Principal axes: T 1.5950,Plg6.0000°,Azm148.0000°; N -0.0770,Plg81.0000°,Azm278.0000° ; P -1.5180,Plg7.0000°,Azm57.0000° $M_0$1.55600×10^{17}

(406) Central Mid-Atlantic Ridge

ISC	**II**	**26 22 19 40.0–.54**	**7.73N–.09**	**38.78W–.10**	**10**	**4.5b,3.8s**	**37**	**14-127**
BJI	II	26 22 19 38.5	7.80N	38.80W	10	5.5b,4.8		**¶16160477**
ISCJB	II	26 22 19 39.2–.41	7.97N–.08	38.85W–.07	10	4.3b,3.8s		
IDC	II	26 22 19 39.3–.64	7.96N	38.88W	0	4.7L,4.2		
NEIC	II	26 22 19 41.0–.29	7.96N	38.85W	10	4.8b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=10.1km az=24.6.
IDC Error ellipse: s-maj=19.3km s-min=15.0km az=154.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.1km az=203.0.

(135) Near coast of central Chile

ISC	**II**	**28 01 29 25.6–.21**	**37.28S–.04**	**73.43W–.04**	**23**	**5.7s,5.7b**	**1115**	**0-178**
IDC	II	28 01 29 22.1–.43	37.44S	73.29W	0	5.5,5.5s		**¶16160700**
ISCJB	II	28 01 29 24.7–.17	37.25S–.03	73.31W–.04	23	5.7s,5.6b		
NEIC	II	28 01 29 25.0	37.36S	73.70W	32	5.9L,5.8W		
GCMT	II	28 01 29 25.0–.10	37.46S	73.69W	25–0	5.8W,5.8W		
GUC	II	28 01 29 25.2–.57	37.36S	73.70W	32–6	5.9W,5.9L		
MOS	II	28 01 29 26.9–1.1	37.23S	73.46W	34	5.8b,5.6s		
BJI	II	28 01 29 26.1	36.73S	73.73W	31	5.8s,5.7		

ISC Event type fe.
IDC Error ellipse: s-maj=17.4km s-min=14.1km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.3km az=41.8.
NEIC Event type fe. Felt [VI] at Arauco, Chillan, Los Alamos, Lota and San Pedro de la Paz; [V] at Angol, Chiguayante, Colbun, Concepcion, Constitucion, Coronel, Curanilahue, Lebu, Linares, Longavi, Parral, Penco, Renaico, Retiro, Talcahuano and Tome. Felt widely in central Chile from Santiago to Valdivia. After GUC. Moment Tensor Solution. s65 Moment tensor: Scale 10^{17}Nm; M_{rr}3.49 $M_{\theta\theta}$1.10 $M_{\phi\phi}$-4.58 $M_{r\theta}$-0.49 $M_{\theta\phi}$2.31 $M_{\phi r}$-3.64 Best double couple: NP1: ϕ_s183.00000°,δ67.00000°,λ115.00000°. NP2:ϕ_s312.00000°,δ33.00000°,λ45.00000°. Principal axes: T 5.3100,Plg60.0000°,Azm129.0000°; N 1.2000,Plg23.0000°,Azm352.0000° ; P -6.5100,Plg19.0000°,Azm254.0000° $M_0$6.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c222; s126,c324;Duration: 2$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}3.43±.05 $M_{\theta\theta}$0.13±.03; $M_{\phi\phi}$-3.56±.04; $M_{r\theta}$0.17±.08; $M_{\theta\phi}$-0.16±.03; $M_{\phi r}$-5.62±.15; Best double couple: NP1: ϕ_s179.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s6.00000°,δ16.00000°,λ97.00000°. Principal axes: T 6.5610,Plg61.0000°,Azm86.0000°; N 0.1240,Plg2.0000°,Azm179.0000° ; P -6.6840,Plg29.0000°,Azm271.0000° $M_0$6.62200×10^{17}
GUC Error ellipse: s-maj=5.1km s-min=6.3km az=-1.0.
MOS Error ellipse: s-maj=15.2km s-min=7.0km az=101.5.

(173) Tonga Islands

ISC	**II**	**28 02 03 14.2–.42**	**17.72S–.09**	**173.79W–.07**	**10**	**5.0s,5.0b**	**134**	**4-174**
ISCJB	II	28 02 03 13.0–.20	17.70S–.05	173.83W–.05	10	5.0s,4.9b		**¶16160702**
IDC	II	28 02 03 12.2–.65	17.81S	173.73W	0	4.9,4.8		
NEIC	II	28 02 03 14.7–3.8	17.70S	173.81W	13–23	5.0b,4.8		
BJI	II	28 02 03 14.5	17.90S	173.91W	20	5.5b,5.4s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.8km az=43.5.
IDC Error ellipse: s-maj=24.8km s-min=17.0km az=148.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.6km az=136.0.

(502) Arkansas

ISC	**II**	**28 05 00 49.5–.19**	**35.33N–.01**	**92.30W–.01**	**10**	**4.5b,4.2s**	**746**	**0-136**
ISCJB	II	28 05 00 47.5–.11	35.347N–.01	92.26W–.01	10	4.5b,4.2s		**¶16160704**
IDC	II	28 05 00 48.7–.46	35.30N	92.33W	0	4.8L,4.5		
MOS	II	28 05 00 49.4–1.2	35.24N	92.27W	17	4.6b,4.2s		
BJI	II	28 05 00 49.6	35.29N	92.41W	10	5.6b,5.3s		
GCMT	II	28 05 00 50.2–.30	35.38N	92.37W	12	4.8W,5.3s		
NEIC	II	28 05 00 50.2	35.27N	92.34W	4	5.0,4.7W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.4km s-min=1.3km az=33.6.
IDC Error ellipse: s-maj=10.2km s-min=7.6km az=7.0.
MOS Error ellipse: s-maj=5.9km s-min=5.5km az=5.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c8; s78,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.48±.09 $M_{\theta\theta}$1.92±.08; $M_{\phi\phi}$-1.44±.08; $M_{r\theta}$-0.61±.25; $M_{\theta\phi}$0.96±.07; $M_{\phi r}$-0.43±.26; Best double couple: NP1:ϕ_s211.00000°,δ89.00000° ,λ161.00000°. NP2:ϕ_s301.00000°,δ71.00000°,λ1.00000°. Principal axes: T 2.3470,Plg14.0000°,Azm164.0000°; N -0.5990,Plg71.0000°,Azm28.0000° ; P -1.7530,Plg13.0000°,Azm257.0000° $M_0$2.05000×10^{16}
NEIC Event type fe. Felt [V] at Greenbrier and [IV] at Bee Branch, Clinton, Concord, Conway, Damascus, Edgemont, Enola, Glencoe, Higden, Hindsville, Judsonia, Kingston, Lepanto, Lockesburg, Oil Trough, Onia, Parthenon, Quitman, Roland, Timbo, Tuckerman, West Helena and Witts Springs. Felt [III] in much of central and northern Arkansas, in parts of eastern Oklahoma and southern Missouri and in the Memphis, Tennessee area. Also felt in parts of Alabama, Illinois, Indiana, Kansas, Kentucky, Louisiana, Mississippi and Texas. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ80.00000° ,λ-5.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ-170.00000°. Principal axes: T 1.1900,Plg4.0000°,Azm160.0000°; N 0.0000,Plg79.0000°,Azm52.0000° ; P -1.1900,Plg11.0000°,Azm251.0000°

(370) Crete

ISC	**II**	**28 07 49 06.8–.29**	**34.87N–.03**	**25.45E–.02**	**55–2**	**5.1b,4.7s**	**1760**	**0-144**
BJI	II	28 07 49 01.6	34.88N	24.90E	53	5.2b,5.1b		**¶16160709**
DDA	II	28 07 49 01.4	34.74N	25.39E	25	5.5L,5.1b		
MOS	II	28 07 49 02.8–1.3	34.80N	25.45E	33	5.5b,4.6s		
ISK	II	28 07 49 04.2	34.90N	25.35E	39	5.2L,4.6s		
ISCJB	II	28 07 49 04.5–.21	34.84N–.01	25.47E–.01	53–1	5.1b,4.7s		
PDG	II	28 07 49 05.9–.17	34.93N	24.42E	11–5	5.0L,4.7s		
SFS	II	28 07 49 06.0	34.82N	25.44E	50	5.2L,4.7s		
CSEM	II	28 07 49 06.1–.09	34.81N	25.49E	62	5.2b,4.8s		
NEIC	II	28 07 49 07.0	34.98N	25.42E	53	5.2b,4.8s		
HLW	II	28 07 49 07.3	34.40N	25.88E	11–10	4.6L,4.3		
THE	II	28 07 49 07.3	34.87N	25.46E	55–1	5.1L,4.3		
ATH	II	28 07 49 07.0	34.98N	25.42E	53–1	5.2L,4.3		
GCMT	II	28 07 49 07.0–.30	34.73N	25.56E	33–1	5.7W,4.3		
IDC	II	28 07 49 07.4–.42	34.99N	25.39E	58–3	4.9,4.7		
NIC	II	28 07 49 11.6–.30	34.48N	26.12E	25	4.7b,4.2L		
GII	II	28 07 49 11.7–.00	34.71N	26.22E	30	4.8b,4.8		

ISC Event type fe.
DDA Event type ke.
MOS Error ellipse: s-maj=4.6km s-min=2.6km az=88.7.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=11.2.
PDG Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=90.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=27.0.

NEIC Event type fe. Felt [III] at Ierapetra and Irakleio. Also felt at Agios Nikolaos, Arkalochori, Kokkini Khanion, Koutouloufarion, Koutsouras, Rethymno and Siteia. Felt at Alexandria, Egypt. After ATH.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=171.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=169.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c66; s66,c72; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.07 $M_{\theta\theta}$-0.81±.05; $M_{\phi\phi}$0.02±.05; $M_{r\theta}$4.36±.22; $M_{\theta\phi}$-0.16±.04; $M_{\phi r}$-0.18±.11; Best double couple: NP1:ϕ_s92.00000°,δ85.00000°,λ92.00000°. NP2:ϕ_s246.00000°,δ6.00000°,λ64.00000°. Principal axes: T 4.4320,Plg50.0000°,Azm5.0000°; N 0.0140,Plg2.0000°,Azm272.0000°; P -4.4460,Plg40.0000°,Azm180.0000° M_o4.43900×10^{17}
IDC Error ellipse: s-maj=6.9km s-min=6.5km az=151.0.
GII Event type ke.

(221) Kuril Islands

ISC	**II**	**28 13 05 28.4–.49**	**46.16N–.04**	**152.34E–.03**	**30–2**	**5.0b,4.5s**	**656**	**3-149**
NIED	II	28 13 05 00	46.30N	152.50E	32	4.9W,4.5s		¶16166760
BJI	II	28 13 05 26.2	46.28N	152.44E	33	5.1b,5.0b		
ISCJB	II	28 13 05 27.4–.70	46.18N–.02	152.24E–.03	31–4	5.0b,4.5s		
JMA	II	28 13 05 27.1–.60	46.30N	152.45E	30	5.1,4.5s		
GCMT	II	28 13 05 28.7–.20	46.27N	152.38E	34–0	5.1W,4.5s		
NEIC	II	28 13 05 28.7–.32	46.22N	152.14E	28–2	4.9b,4.5s		
SKHL	II	28 13 05 29.1–.60	46.09N	152.49E	60–5	5.9b,5.4		
MOS	II	28 13 05 29.7–1.1	46.27N	152.15E	50	5.2b,4.3s		
IDC	II	28 13 05 29.1–2.5	46.27N	152.16E	32–17	4.6,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ60.00000°,λ-178.00000°. NP2:ϕ_s140.00000°,δ88.00000°,λ-30.00000°. M_o2.42000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.4km az=147.0.
JMA Error ellipse: s-maj=5.6km s-min=5.4km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c74; s91,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.27±.18 $M_{\theta\theta}$-1.62±.13; $M_{\phi\phi}$-2.65±.12; $M_{r\theta}$0.57±.13; $M_{\theta\phi}$-2.41±.07; $M_{\phi r}$2.26±.12; Best double couple: NP1:ϕ_s27.00000°,δ59.00000°,λ77.00000°. NP2:ϕ_s231.00000°,δ33.00000°,λ110.00000°. Principal axes: T 4.9460,Plg73.0000°,Azm265.0000°; N 0.1410,Plg11.0000°,Azm34.0000°; P -5.0870,Plg13.0000°,Azm127.0000° M_o5.01700×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.1km az=152.0.
MOS Error ellipse: s-maj=6.1km s-min=4.3km az=107.8.
IDC Error ellipse: s-maj=13.6km s-min=10.5km az=142.0.

(706) Northern Sumatera

ISC	**II**	**28 23 10 25.3–.35**	**3.89N–.04**	**95.85E–.04**	**55–2**	**4.8b,3.6s**	**428**	**1-160**
MOS	II	28 23 10 23.5–1.1	4.12N	96.01E	47	5.0b,3.6s		¶16166886
BJI	II	28 23 10 23.5	4.10N	96.00E	34	4.8b,4.8b		
ISCJB	II	28 23 10 24.6–.46	3.88N–.02	95.90E–.03	66–4	4.7b,4.8b		
KLM	II	28 23 10 25.1	4.02N	95.78E	60	5.8s,4.9b		
IDC	II	28 23 10 26.0–.50	4.11N	95.94E	54–3	4.6,4.4		
NEIC	II	28 23 10 26.6–.61	3.97N	95.96E	63–5	5.0b,4.4		
DJA	II	28 23 10 28.3–.70	4N–3.0	96E–7.0	50–10	5.0b,5.0b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Meulaboh.

(685) Easter Island region

ISC	**II**	**28 23 42 18.7–.49**	**29.4S–.10**	**111.99W–.08**	**16**	**5.0s,5.0b**	**242**	**22-168**
IDC	II	28 23 42 15.8–.82	29.36S	112.24W	0	5.0s,5.0		¶16168959
ISCJB	II	28 23 42 17.1–.69	29.4S–.10	112.02W–.09	16	5.1s,4.9b		
GCMT	II	28 23 42 17.4–.10	29.65S	112.28W	18–0	5.5W,4.9b		
NEIC	II	28 23 42 17.4–.35	29.47S	112.06W	10	5.1b,4.9b		
BJI	II	28 23 42 18.8	29.40S	112.10W	10	5.6b,5.5s		

ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=21.4km az=27.0.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=8.7km az=25.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c152; s127,c247; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{\theta\theta}$-2.40±.03; $M_{\phi\phi}$2.56±.04; $M_{r\theta}$-0.68±.08; $M_{\theta\phi}$0.01±.03; $M_{\phi r}$-0.26±.07; Best double couple: NP1:ϕ_s44.00000°,δ83.00000°,λ-15.00000°. NP2:ϕ_s136.00000°,δ75.00000°,λ-173.00000°. Principal axes: T 2.5850,Plg6.0000°,Azm91.0000°; N 0.0060,Plg73.0000°,Azm200.0000°; P -2.5930,Plg16.0000°,Azm359.0000° M_o2.58900×10^{17}
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.9km az=63.0.

(685) Easter Island region

ISC	**III**	**01 00 53 45.4–.55**	**29.64S–.06**	**112.13W–.04**	**4–3**	**5.9s,5.5b**	**1022**	**17-168**
ISCJB	III	01 00 53 44.2–.20	29.60S–.03	112.03W–.04	7	5.9s,5.4b		¶16166888
IDC	III	01 00 53 44.5–.39	29.50S	111.99W	0	5.8s,5.8		
MOS	III	01 00 53 45.4–1.4	29.53S	111.96W	10	5.9s,5.4b		
NEIC	III	01 00 53 46.0–.00	30.21S	112.11W	15	5.9s,5.4b		
NEIC	III	01 00 53 46.3–.21	29.70S	111.98W	10	6.0W,6.0s		
GCMT	III	01 00 53 46.3–.10	29.68S	112.26W	20–0	6.1W,6.0s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.7km az=38.6.
IDC Error ellipse: s-maj=16.6km s-min=13.7km az=178.0.
MOS Error ellipse: s-maj=13.7km s-min=7.0km az=83.8.
NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{18}Nm; M_{rr}0.06 $M_{\theta\theta}$-1.07 $M_{\phi\phi}$1.01 $M_{r\theta}$-0.54 $M_{\theta\phi}$0.51 $M_{\phi r}$0.52 Best double couple: NP1:ϕ_s148.00000°,δ88.00000°,λ-148.00000°. NP2:ϕ_s56.00000°,δ58.00000°,λ-2.00000°. Principal axes: T 1.2700,Plg20.0000°,Azm277.0000°; N 0.2000,Plg58.0000°,Azm151.0000°; P -1.4700,Plg23.0000°,Azm16.0000° M_o1.40000×10^{18}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.6km az=102.0. Moment Tensor Solution. M_o2.50000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c271; s142,c491;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.04±.01 $M_{\theta\theta}$-1.37±.01; $M_{\phi\phi}$1.40±.01; $M_{r\theta}$-0.32±.02; $M_{\theta\phi}$0.53±.01; $M_{\phi r}$-0.03±.02; Best double couple: NP1:ϕ_s55.00000°,δ84.00000°,λ-11.00000°. NP2:ϕ_s146.00000°,δ79.00000°,λ-174.00000°. Principal axes: T 1.5010,Plg3.0000°,Azm101.0000°; N 0.0250,Plg78.0000°,Azm206.0000°; P -1.5310,Plg12.0000°,Azm10.0000° M_o1.51600×10^{18}

(408) Ascension Island region

ISC	**III**	**01 03 46 29.8–.40**	**5.64S–.08**	**11.31W–.07**	**13**	**4.9b,4.6s**	**207**	**4-146**
MOS	III	01 03 46 28.2–.77	5.52S	11.39W	10	5.2b,4.6s		¶16166894
BJI	III	01 03 46 28.2	5.60S	11.40W	10	5.6b,5.2b		
IDC	III	01 03 46 28.0–.56	5.60S	11.39W	0	4.5s,4.4		
ISCJB	III	01 03 46 28.6–.30	5.56S–.06	11.35W–.05	13	4.8b,4.6s		
NEIC	III	01 03 46 29.6–.25	5.61S	11.37W	10	5.2b,4.6s		
GCMT	III	01 03 46 29.6–.20	5.53S	11.46W	12	5.2W,4.6s		

ISC Event type se.
MOS Error ellipse: s-maj=13.9km s-min=5.5km az=63.6.
IDC Error ellipse: s-maj=16.6km s-min=13.1km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.9km az=139.7.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c86; s115,c194; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.78±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$0.73±.01; $M_{r\theta}$0.14±.05; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$-0.23±.04; Best double couple: NP1:ϕ_s340.00000°,δ54.00000°,λ-95.00000°. NP2:ϕ_s169.00000°,δ36.00000°,λ-83.00000°. Principal axes: T 0.8400,Plg9.0000°,Azm73.0000°; N -0.0130,Plg4.0000°,Azm343.0000°; P -0.8270,Plg80.0000°,Azm228.0000° M_o0.83400×10^{17}

(221) Kuril Islands

ISC	**III**	**01 09 26 04.8–.74**	**45.04N–.07**	**150.70E–.07**	**39**	**3.8b**	**54**	**2-80**
ISCJB	III	01 09 26 05.7–.56	45.18N–.06	150.65E–.06	39	3.7b		¶17193058
JMA	III	01 09 26 10.6–.40	45.47N	150.16E	30	4.1		
MOS	III	01 09 26 10.4–.91	45.33N	150.30E	100	4.3b		
SKHL	III	01 09 26 11.9–.10	45.33N	150.18E	105–2	5.6s,4.7b		
IDC	III	01 09 26 12.4–4.1	45.72N	150.17E	92–46	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.0km az=148.6.
JMA Error ellipse: s-maj=5.6km s-min=3.9km az=-1.0.
MOS Error ellipse: s-maj=13.4km s-min=11.5km az=144.1.
IDC Error ellipse: s-maj=65.6km s-min=19.7km az=1.0.

(6) Rat Islands

ISC	**III**	**01 12 49 59.6–.35**	**51.20N–.05**	**179.55E–.03**	**43–2**	**5.4b,4.8s**	**1412**	**1-160**
IDC	III	01 12 49 53.1–.38	51.20N	179.63E	0	5.1L,5.1		¶16168972
MOS	III	01 12 49 57.9–.87	51.25N	179.55E	42	5.5b,4.9s		
BJI	III	01 12 49 57.3	51.28N	179.46E	45	5.5b,5.3b		
NEIC	III	01 12 49 58.3	51.02N	179.60E	30	5.4b,5.3L		
GCMT	III	01 12 49 58.3–.10	51.07N	179.47E	20–0	5.4W,5.3L		
ISCJB	III	01 12 49 59.3–.36	51.19N–.03	179.63E–.02	59–2	5.3b,4.8s		

ISC Event type se.
NEIC Event type se. After AEIC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c168; s115,c213;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.01±.03 $M_{\theta\theta}$-1.02±.02; $M_{\phi\phi}$0.01±.01; $M_{r\theta}$0.96±.04; $M_{\theta\phi}$-0.18±.01; $M_{\phi r}$0.42±.03; Best double couple: NP1:ϕ_s70.00000°,δ68.00000°,λ82.00000°. NP2:ϕ_s271.00000°,δ23.00000°,λ109.00000°. Principal axes: T 1.4690,Plg66.0000°,Azm327.0000°; N 0.0060,Plg7.0000°,Azm73.0000°; P -1.4750,Plg23.0000°,Azm166.0000° M_o1.47200×10^{17}
ISCJB Event type se.

(96) Near north coast of Colombia

ISC	**III**	**02 18 50 48.1–.30**	**8.56N–.03**	**76.90W–.03**	**34–0**	**5.5b,5.3s**	**1342**	**2-173**
ISCJB	III	02 18 50 46.1–.70	8.68N–.02	76.92W–.01	29–5	5.5b,5.3s		¶16176414
MOS	III	02 18 50 48.2–1.0	8.61N	77.06W	44	5.5b,5.3s		
NEIC	III	02 18 50 49.0–.00	8.56N	76.91W	39	5.5b,5.3s		
NEIC	III	02 18 50 49.4–.15	8.60N	76.86W	44	5.7W,5.6b		
GCMT	III	02 18 50 49.4–.10	8.64N	76.82W	40–0	5.8W,5.6b		
IDC	III	02 18 50 49.1–.51	8.52N	77.03W	45–4	5.2s,5.2		
RSNC	III	02 18 50 49.5–.89	8.61N	76.90W	32–27	5.2L,5.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=33.3.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=104.9.
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-1.90 $M_{r\theta}$-2.30 $M_{\theta\phi}$1.10 $M_{\phi r}$3.30 Best double couple: NP1:ϕ_s325.00000°,δ76.00000°,λ83.00000°. NP2:ϕ_s172.00000°,δ15.00000°,λ116.00000°. Principal axes: T 4.3000,Plg58.0000°,Azm226.0000°; N 0.5000,Plg6.0000°,Azm327.0000°; P -4.8000,Plg31.0000°,Azm61.0000° M_o5.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=55.0. Felt [III] at Medellin and [II] at Cartagena and Santa Marta. Also felt at Apartado, Bucaramanga, Monteria, Pereira, Tolu and Valledupar. Felt [IV] at Ancon, [III] at Panama and [II] at San Carlos, Panama. Also felt at Balboa, Cerro Azul, Kanir-Dup, La Chorrera, Meteti and Pacora. Felt [III] at Maracaibo, Venezuela.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c228; s133,c336;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}3.32±.05 $M_{\theta\theta}$1.45±.04; $M_{\phi\phi}$-4.77±.05; $M_{r\theta}$-2.19±.06; $M_{\theta\phi}$2.45±.04; $M_{\phi r}$2.24±.06; Best double couple: NP1:ϕ_s318.00000°,δ66.00000°,λ62.00000°. NP2:ϕ_s191.00000°,δ36.00000°,λ137.00000°. Principal axes: T 4.8030,Plg59.0000°,Azm188.0000°; N 1.6550,Plg25.0000°,Azm330.0000°; P -6.4580,Plg16.0000°,Azm68.0000° M_o5.63000×10^{17}
IDC Error ellipse: s-maj=14.7km s-min=9.5km az=54.0.
RSNC Error ellipse: s-maj=8.0km s-min=5.9km az=-1.0.

(135) Near coast of central Chile

ISC	**III**	**03 07 58 57.2–.58**	**37.26S–.03**	**73.44W–.05**	**31–3**	**5.1b,4.7s**	**713**	**0-178**
IDC	III	03 07 58 52.1–.53	37.24S	73.45W	0	5.1,5.0		¶16176485
NEIC	III	03 07 58 53.0	37.34S	73.86W	18	5.5L,5.1b		
GUC	III	03 07 58 53.4–.46	37.34S	73.86W	18–3	5.5L,5.1b		
GCMT	III	03 07 58 53.0–.20	37.45S	73.83W	23–0	5.2W,5.1b		
ISCJB	III	03 07 58 55.6–1.1	37.25S–.03	73.42W–.05	31–7	5.1b,4.7s		
BJI	III	03 07 58 55.8	36.78S	73.76W	32	5.5b,5.5s		
MOS	III	03 07 58 56.7–1.3	37.13S	73.29W	33	5.3b,4.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=67.0.
NEIC Event type fe. Felt [V] at Concepcion, Coronel, Hualpen, Lota and San Pedro de la Paz; [IV] at Arauco, Cabrero, Chiguayante, Chillan Viejo, Florida, La Laja, Penco and Talcahuano; [III] at Angol, Chillan, Curanilahue, Los Alamos, Los Sauces and Renaico; [II] at Collipulli. Also felt at Temuco. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=4.3km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c78; s78,c118; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.46±.23 $M_{\theta\theta}$-0.25±.13; $M_{\phi\phi}$-5.21±.16; $M_{r\theta}$0.82±.20; $M_{\theta\phi}$0.21±.10; $M_{\phi r}$-5.52±.29; Best double couple: NP1:ϕ_s173.00000°,δ68.00000°,λ87.00000°. NP2:ϕ_s1.00000°,δ22.00000°,λ97.00000°. Principal axes: T 7.8580,Plg67.0000°,Azm78.0000°; N -0.2690,Plg3.0000°,Azm174.0000°; P -7.5880,Plg23.0000°,Azm266.0000° M_o7.72300×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=165.0.
MOS Error ellipse: s-maj=16.9km s-min=7.9km az=101.8.

(259) Mindanao

ISC	**III**	**03 15 11 60.0–.33**	**9.52N–.02**	**126.05E–.03**	**32–2**	**5.3b,4.7s**	**660**	**1-171**
BJI	III	03 15 11 56.3	9.18N	126.17E	43	5.2b,5.1s		¶16194008
IDC	III	03 15 11 58.7–1.8	9.49N	125.93E	24–11	5.0,5.0L		
ISCJB	III	03 15 11 59.2–.36	9.52N–.02	126.07E–.02	40–3	5.2b,4.8s		
MAN	III	03 15 11 59	9.51N	125.90E	3	6.0b,5.7s		
MOS	III	03 15 11 59.6–1.3	9.46N	125.93E	48	5.5b,4.7s		
DJA	III	03 15 12 00.6–1.1	10N–4.0	126E–2.0	25–8	7.9,6.1		
NEIC	III	03 15 12 01.4–.55	9.46N	125.94E	50–5	5.4b,6.1		
GCMT	III	03 15 12 01.4–.10	9.50N	125.95E	19–0	5.5W,6.1		
KLM	III	03 15 12 02.1	9.26N	126.40E	49	6.0s,5.4b		

ISC Event type de.
IDC Error ellipse: s-maj=13.3km s-min=7.7km az=79.0.
ISCJB Event type de. Error ellipse: s-maj=3.7km s-min=2.4km az=160.5.
MAN Event type fe. INTENSITY VI - CARRASCAL SURIGAO DEL SUR; INTENSITY V- CLAVER SURIGO DEL NORTE; INTENSITY III - BUTUAN CITY; BUENAVISTA AGUSAN DEL SUR; SOCORRO AND MAINIT SURIGAO DEL NORTE.
MOS Error ellipse: s-maj=8.4km s-min=4.2km az=111.4.
NEIC Event type de. Error ellipse: s-maj=4.3km s-min=3.0km az=77.0. Several buildings damaged in Surigao. Felt [VI PIVS] at Cantilan and Carrascal; [V PIVS] at Claveria; [III PIVS] at Buenavista, Butuan, Mainit and Socorro; [II PIVS] at Bislig and Surigao; [I PIVS] at Cagayan de Oro. Also felt at Bayugan and Dapa.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c175; s116,c227; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.43±.03 $M_{\theta\theta}$0.71±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$-0.21±.04; $M_{\theta\phi}$1.51±.02; $M_{\phi r}$1.10±.06; Best double couple: NP1:ϕ_s193.00000°,δ77.00000°,λ-146.00000°. NP2:ϕ_s94.00000°,δ57.00000°,λ-16.00000°. Principal axes: T 1.9170,Plg13.0000°,Azm320.0000°; N 0.1180,Plg54.0000°,Azm211.0000°; P -2.0350,Plg33.0000°,Azm59.0000° M_o1.97600×10^{17}

(193) Bougainville-Solomon Islands region

ISC	**III**	**04 04 07 49.8–.33**	**8.92S–.04**	**157.36E–.04**	**19–1**	**5.6b,5.2s**	**905**	**3-162**
IDC	III	04 04 07 46.9–.38	8.91S	157.25E	0	5.4,5.4b		¶16461106
ISCJB	III	04 04 07 48.7–.11	8.92S–.02	157.20E–.02	19	5.6b,5.2s		
GCMT	III	04 04 07 48.6–.10	9.03S	157.29E	14–0	5.6W,5.2s		
NEIC	III	04 04 07 48.6–.12	8.93S	157.24E	10	5.6W,5.6b		
BJI	III	04 04 07 48.0	8.47S	157.53E	12	5.8b,5.7b		
MOS	III	04 04 07 49.6–1.0	8.81S	157.14E	21	5.7b,5.1s		
NEIC	III	04 04 07 49.0–.00	8.93S	157.14E	15	5.7b,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=11.0km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=166.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c226; s133,c343;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.84±.03 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$-0.19±.03; $M_{r\theta}$0.63±.06; $M_{\theta\phi}$2.85±.03; $M_{\phi r}$-0.13±.06; Best double couple: NP1:ϕ_s88.00000°,δ87.00000°,λ14.00000°. NP2:ϕ_s358.00000°,δ76.00000°,λ177.00000°. Principal axes: T 2.5070,Plg11.0000°,Azm314.0000°; N 0.8420,Plg76.0000°,Azm100.0000°; P -3.3500,Plg8.0000°,Azm222.0000° M_o2.92900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.3km az=152.0.
MOS Error ellipse: s-maj=7.1km s-min=5.9km az=99.2.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}0.60 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-0.30 $M_{r\theta}$0.00 $M_{\theta\phi}$2.50 $M_{\phi r}$-1.70 Best double couple: NP1:ϕ_s176.00000°,δ82.00000°,λ145.00000°. NP2:ϕ_s272.00000°,δ55.00000°,λ9.00000°. Principal axes: T 2.9000,Plg29.0000°,Azm128.0000°; N 0.3000,Plg54.0000°,Azm345.0000°; P -3.2000,Plg17.0000°,Azm229.0000° M_o3.00000×10^{17}

(162) South Island

ISC	**III**	**05 06 34 02.0–1.0**	**43.52S–.03**	**172.76E–.03**	**5–6**	**4.3b,4.0s**	**109**	**0-154**
ISCJB	III	05 06 34 00.2–.57	43.62S–.03	172.85E–.04	10–3	4.5b,4.0s		¶16195232
BJI	III	05 06 34 00.2	43.86S	172.35E	3	5.5b,5.1b		

IDC III 05 06 34 00.8–.94 43.52S 172.72E 0 4.4,4.3b
WEL III 05 06 34 02.8–.07 43.55S 172.72E 10–0 5.0L,4.3b
NEIC III 05 06 34 02.5 43.57S 172.73E 11 4.8L,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=42.7.
IDC Error ellipse: s-maj=47.5km s-min=13.5km az=170.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from Hawke''s Bay to Otago, maximum reported intensity MM 7.
NEIC Event type fe. Felt [IV] at Christchurch. Widely felt in Canterbury. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}1.60 $M_{\theta\theta}$1.46 $M_{\phi\phi}$-3.06 $M_{r\theta}$2.50 $M_{\theta\phi}$-8.20 $M_{\phi r}$-2.56 Best double couple: NP1:ϕ_s80.00000°,δ71.00000°,λ164.00000°. NP2:ϕ_s175.00000°,δ75.00000°,λ20.00000°. Principal axes: T 9.3300,Plg25.0000°,Azm38.0000° ; N 0.0000,Plg65.0000°,Azm210.0000°; P -9.3300,Plg3.0000°,Azm307.0000° $M_0$9.30000×10^{15}

(162) South Island

ISC	**III**	**06 03 43 31.1–1.1**	**42.41S–.03**	**173.93E–.03**	**9–6**	**4.8b,3.9s**	**291**	**0-165**
IDC	III	06 03 43 29.9–.75	42.25S	173.92E	0	5.1L,4.7		¶16196703
BJI	III	06 03 43 30.3	42.73S	173.46E	8	5.5b,4.9b		
ISCJB	III	06 03 43 32.1–.45	42.43S–.03	173.94E–.04	28–3	4.8b,4.0s		
NEIC	III	06 03 43 32.8	42.36S	173.90E	12	4.9L,4.8W		
WEL	III	06 03 43 33.7–.14	42.34S	173.86E	20–1	5.1L,4.8W		

ISC Event type fe.
IDC Error ellipse: s-maj=31.6km s-min=22.8km az=11.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.6km az=136.3.
NEIC Event type fe. Felt widely along the east coast of the South Island. After WEL. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}0.35 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$0.16 $M_{r\theta}$0.28 $M_{\theta\phi}$-1.44 $M_{\phi r}$-0.67 Best double couple: NP1:ϕ_s93.00000°,δ66.00000°,λ164.00000°. NP2: ϕ_s190.00000°,δ75.00000°,λ25.00000°. Principal axes: T 1.6800,Plg28.0000°,Azm53.0000° ; N 0.0000,Plg61.0000°,Azm219.0000°; P -1.6800,Plg6.0000°,Azm320.0000° $M_0$1.70000×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt between Nelson, Canterbury and Wairarapa, maximum reported intensity MM. 6.

(274) Southern Sumatera

ISC	**III**	**06 05 21 07.7–.63**	**5.15S–.05**	**102.34E–.05**	**43–5**	**4.4b,3.7s**	**177**	**1-149**
IDC	III	06 05 21 02.6–.90	4.97S	102.43E	0	4.4,4.3b		¶16196705
ISCJB	III	06 05 21 05.5–.58	5.19S–.03	102.29E–.04	41–5	4.4b,3.7s		
DJA	III	06 05 21 06.7–.70	5S–2.0	102E–2.0	27–7	5.6b,5.1		
BJI	III	06 05 21 06.4	5.10S	102.40E	39	4.9b,4.6b		
NEIC	III	06 05 21 07.4–.38	5.12S	102.37E	38–3	4.5b,4.6b		

ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=13.4km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.7km az=138.3.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=2.9km az=53.0.

(662) Sakhalin Island

ISC	**III**	**06 15 48 54.4–.79**	**52.17N–.03**	**142.29E–.03**	**10–4**	**4.9s,4.9b**	**764**	**1-151**
SKHL	III	06 15 48 50.5–1.2	52.20N	142.31E	10	5.8s,4.8b		¶16196734
BJI	III	06 15 48 50.0	52.28N	142.67E	10	5.0b,4.9s		
ISCJB	III	06 15 48 51.6–.51	52.16N–.02	142.30E–.03	3–3	4.8s,4.7b		
MOS	III	06 15 48 52.3–.98	52.15N	142.29E	8	4.9b,4.9s		
IDC	III	06 15 48 53.0–.42	52.22N	142.30E	0	4.6,4.5		
NEIC	III	06 15 48 54.6–.12	52.20N	142.21E	10	4.9b,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.4km az=148.6.
MOS Error ellipse: s-maj=6.9km s-min=3.8km az=95.6.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=144.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=153.0.

(193) Bougainville-Solomon Islands region

ISC	**III**	**07 00 09 38.2–.18**	**10.33S–.03**	**160.75E–.03**	**44–2**	**6.5s,6.2b**	**2109**	**1-165**
GCMT	III	07 00 09 36.5–.10	10.54S	160.69E	35–0	6.4W,6.2b		¶16461120
NEIC	III	07 00 09 36.5–.10	10.35S	160.77E	22	6.6s,6.4W		
BJI	III	07 00 09 36.0	10.30S	160.90E	40	6.4s,6.3b		
ISCJB	III	07 00 09 37.8–.59	10.34S–.02	160.73E–.02	43–5	6.5s,6.1b		
NEIC	III	07 00 09 38.0–.00	10.13S	160.14E	37	6.5s,6.1b		
MOS	III	07 00 09 39.3–.89	10.29S	160.65E	58	6.4s,6.3b		
IDC	III	07 00 09 40.8–.98	10.31S	160.71E	59–7	6.2s,6.2		
NEIC	III	07 00 09 51.7–.00	10.34S	160.28E	37	6.2s,6.2		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s147,c373; s139,c539;Duration: 3s8 Moment tensor: Scale 10^{18} Nm; M_{rr}4.43±.03 $M_{\theta\theta}$-1.78±.02; $M_{\phi\phi}$-2.65±.02; $M_{r\theta}$0.64±.03; $M_{\theta\phi}$2.68±.02; $M_{\phi r}$-0.75±.03; Best double couple: NP1:ϕ_s140.00000°,δ51.00000°,λ90.00000°. NP2:ϕ_s320.00000°,δ39.00000°,λ90.00000°. Principal axes: T 4.5310,Plg84.0000°,Azm50.0000° ; N 0.5000,Plg0.0000°,Azm140.0000°; P -5.0320,Plg6.0000°,Azm230.0000° $M_0$4.78100×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=152.0. Felt [IV] at Honiara. Also felt at Tulaghi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$5.50000×10^{18} Moment Tensor Solution. s40 Moment tensor: Scale 10^{18}Nm; M_{rr}2.76 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$-0.95 $M_{r\theta}$0.20 $M_{\theta\phi}$3.87 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s117.00000°,δ48.00000°,λ69.00000°. NP2:ϕ_s327.00000°,δ46.00000°,λ112.00000°. Principal axes: T 2.7900,Plg74.0000°,Azm317.0000° ; N 2.4900,Plg16.0000°,Azm131.0000°; P -5.2800,Plg1.0000°,Azm222.0000° $M_0$4.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s330.00000°,δ30.00000°,λ90.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ90.00000°. Principal axes: T Plg75.0000°,Azm60.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000°,Azm240.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=5.8.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{18}Nm; M_{rr}4.20 $M_{\theta\theta}$-1.93 $M_{\phi\phi}$-2.27 $M_{r\theta}$0.35 $M_{\theta\phi}$2.00 $M_{\phi r}$0.81 Best double couple: NP1:ϕ_s327.00000°,δ48.00000°,λ104.00000°. NP2:ϕ_s127.00000°,δ43.00000°,λ75.00000°. Principal axes: T 4.3600,Plg79.0000°,Azm304.0000°; N -0.2400,Plg10.0000°,Azm138.0000° ; P -4.1200,Plg2.0000°,Azm47.0000° $M_0$4.20000×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=5.5km az=85.5.
IDC Error ellipse: s-maj=8.6km s-min=7.7km az=16.0.
NEIC Event type se. Moment Tensor Solution. s72 Moment tensor: Scale 10^{18}Nm; M_{rr}4.57 $M_{\theta\theta}$-1.68 $M_{\phi\phi}$-2.89 $M_{r\theta}$0.67 $M_{\theta\phi}$2.60 $M_{\phi r}$-1.15 Best double couple: NP1:ϕ_s144.00000°,δ53.00000°,λ93.00000°. NP2:ϕ_s319.00000°,δ37.00000°,λ86.00000°. Principal axes: T 4.7600,Plg82.0000°,Azm69.0000°; N 0.3800,Plg2.0000°,Azm322.0000° ; P -5.1300,Plg8.0000°,Azm232.0000° $M_0$4.90000×10^{18}

(274) Southern Sumatera

ISC	**III**	**07 12 32 04.3–.58**	**5.83S–.05**	**102.51E–.05**	**34–1**	**4.7b,3.4s**	**175**	**2-146**
ISCJB	III	07 12 32 02.4–.58	5.76S–.03	102.51E–.03	36–5	4.6b,3.5s		¶16245346
BJI	III	07 12 32 03.7	5.80S	102.50E	42	5.0b,4.7b		
NEIC	III	07 12 32 04.4–.29	5.67S	102.54E	35	4.7b,4.7b		
DJA	III	07 12 32 04.7–.30	6S–2.0	103E–2.0	41–4	5.5b,5.0		
IDC	III	07 12 32 04.9–.88	5.62S	102.58E	36–5	4.6,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.5km az=135.9.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.4km az=47.0.
IDC Error ellipse: s-maj=29.6km s-min=11.3km az=55.0.

(178) Kermadec Islands

ISC	**III**	**08 02 10 41.2–.46**	**30.51S–.05**	**178.02W–.08**	**45–3**	**5.0b,3.9s**	**213**	**1-170**
ISCJB	III	08 02 10 40.3–.34	30.65S–.04	177.95W–.08	50	4.9b,3.8s		¶16269118
NEIC	III	08 02 10 40.5–.84	30.33S	177.93W	40–7	5.0b,3.8s		
MOS	III	08 02 10 41.0–1.6	30.20S	178.07W	44	5.2b,3.8s		
IDC	III	08 02 10 42.2–.56	30.21S	178.00W	55–4	4.7,4.6		
BJI	III	08 02 10 42.4	30.27S	178.33W	46	5.5b,5.4s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=4.2km az=19.4.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.5km az=121.0.
MOS Error ellipse: s-maj=15.0km s-min=12.4km az=77.5.
IDC Error ellipse: s-maj=15.5km s-min=7.3km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 02 45 19.6–.29**	**38.44N–.02**	**142.98E–.02**	**26–1**	**7.5s,6.4b**	**2864**	**1-164**
NIED	III	09 02 45 00	38.30N	143.30E	23	7.2W,6.4b		¶16293272
JMA	III	09 02 45 12.9–.10	38.33N	143.28E	8–2	7.3,6.4b		
ISCJB	III	09 02 45 15.0–.47	38.38N–.01	143.02E–.01	9–2	7.5s,6.3b		
BJI	III	09 02 45 14.7	38.50N	142.85E	10	7.6s,7.5		
IDC	III	09 02 45 15.2–.32	38.45N	142.96E	0	7.5,7.5s		
NEIC	III	09 02 45 18.0–.00	38.51N	142.99E	35	7.5,7.5s		
MOS	III	09 02 45 18.7–.91	38.56N	142.89E	31	7.6s,6.6b		
GCMT	III	09 02 45 20.3–.10	38.56N	142.78E	14–0	7.3W,6.6b		
NEIC	III	09 02 45 20.3–.08	38.44N	142.84E	32	7.3W,7.3s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ70.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ98.00000°. $M_0$7.97000×10^{19}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=157.6.
IDC Error ellipse: s-maj=9.3km s-min=7.2km az=101.0.
NEIC Event type se. Moment Tensor Solution. s138 Moment tensor: Scale 10^{19}Nm; M_{rr}4.67 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-4.34 $M_{r\theta}$3.23 $M_{\theta\phi}$-1.31 $M_{\phi r}$8.06 Best double couple: NP1:ϕ_s21.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s192.00000°,δ14.00000°,λ81.00000°. Principal axes: T 9.8600,Plg59.0000°,Azm294.0000°; N 0.0300,Plg2.0000°,Azm200.0000° ; P -9.8900,Plg30.0000°,Azm109.0000° $M_0$9.90000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=103.5. Fault plane solution: P-wave C155, D60 . Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s26.00000°,δ84.00000°,λ85.00000°. NP2: ϕ_s242.00000°,δ8.00000°,λ126.00000°. Principal axes: T Plg51.0000°,Azm291.0000° ; N Plg5.0000°,Azm27.0000°; P Plg38.0000°,Azm120.0000° $M_0$1.60000×10^{20}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c385; s145,c741;Duration: 11s3 Moment tensor: Scale 10^{20}Nm; M_{rr}0.49±.00 $M_{\theta\theta}$-0.02±.00; $M_{\phi\phi}$-0.46±.00; $M_{r\theta}$0.42±.02; $M_{\theta\phi}$-0.13±.00; $M_{\phi r}$1.05±.03; Best double couple: NP1:ϕ_s21.00000°,δ78.00000°,λ93.00000°. NP2:ϕ_s189.00000°,δ12.00000°,λ78.00000°. Principal axes: T 1.2310,Plg57.0000°,Azm294.0000°; N 0.0050,Plg2.0000°,Azm201.0000° ; P -1.2360,Plg33.0000°,Azm109.0000° $M_0$1.23400×10^{20}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=142.0. Felt [IV] at Misawa, Sendai and Utsunomiya; [III] at Tokyo, Tsukuba, Yokohama and Yokosuka; [II] at Narita and Sagamihara. Felt throughout central and northern Honshu and southern Hokkaido. Felt [II] at Yuzhno-Kuril'sk, Kuril Islands. Recorded [5L JMA] in Miyagi, Honshu. Complex earthquake, with at least two events occurring after the first event observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$9.40000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm110.0000°

(229) Off east coast of Honshu

ISC	**III**	**09 02 57 16.9–.61**	**38.29N–.03**	**143.09E–.03**	**28–4**	**5.7b**	**1195**	**1-160**
NIED	III	09 02 57 00	38.30N	143.40E	20	6.0W		¶16293274
JMA	III	09 02 57 10.7–.20	38.32N	143.40E	12	6.2		
IDC	III	09 02 57 12.4–.37	38.35N	143.15E	0	5.3,5.3		
BJI	III	09 02 57 14.1	38.41N	143.02E	22	6.3s,6.2		
MOS	III	09 02 57 16.3–1.1	38.37N	142.99E	34	5.9b,6.2		
NEIC	III	09 02 57 16.7–1.4	38.36N	142.91E	23–9	5.7b,6.2		
ISCJB	III	09 02 57 17.2–.42	38.35N–.02	142.95E–.02	40–3	6.8s,5.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ23.00000°,λ95.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ88.00000°. $M_0$1.17000×10^{18}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Miyagi and Yamagata.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**09 02 58 12.3–.39**	**38.25N–.04**	**143.15E–.05**	**23**	**5.5b**	**150**	**1-150**
NIED	III	09 02 58 00	38.30N	143.20E	23	6.0W		¶600538119
IDC	III	09 02 58 08.9–.54	38.27N	143.13E	0	6.3,6.3s		
ISCJB	III	09 02 58 10.0–.27	38.19N–.03	143.24E–.04	23	5.4b,6.3s		
JMA	III	09 02 58 11.8–.30	38.30N	143.16E	21	6.0,6.3s		
MOS	III	09 02 58 14.1–1.9	38.40N	142.80E	33	5.6b,6.3s		
NEIC	III	09 02 58 14.1–2.2	38.25N	143.10E	35–15	5.7b,6.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ29.00000°,λ99.00000°. NP2:ϕ_s18.00000°,δ62.00000°,λ85.00000°. $M_0$1.01000×10^{18}
IDC Error ellipse: s-maj=15.0km s-min=13.2km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.5km az=31.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=7.1km az=94.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.7km az=99.0.

(229) Off east coast of Honshu

ISC	**III**	**09 03 08 33.9–.40**	**38.26N–.04**	**143.28E–.04**	**19–1**	**5.4b**	**1085**	**2-155**
ISCJB	III	09 03 08 32.0–.97	38.27N–.02	143.25E–.02	14–6	6.2s,5.3b		¶16293275
JMA	III	09 03 08 33.0–.20	38.36N	143.32E	27	5.8,5.3b		
BJI	III	09 03 08 34.2	38.37N	143.01E	21	5.9,5.5b		
NEIC	III	09 03 08 35.8–1.3	38.31N	143.17E	29–9	5.3b,5.5b		
IDC	III	09 03 08 35.6–.60	38.30N	143.26E	26–3	5.4s,5.4		
MOS	III	09 03 08 35.8–1.6	38.40N	142.80E	33	5.7b,5.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=160.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=140.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=10.8km s-min=9.3km az=133.0.
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=104.2.

(229) Off east coast of Honshu

ISC	**III**	**09 03 18 58.9–.47**	**38.68N–.04**	**143.18E–.05**	**21–5**	**5.0b**	**353**	**1-149**
IDC	III	09 03 18 55.6–.51	38.65N	143.14E	0	4.6,4.6		¶16293276
ISCJB	III	09 03 18 56.4–.78	38.64N–.03	143.17E–.03	15–5	8.3s,4.9b		
JMA	III	09 03 18 57.0–.10	38.61N	143.23E	28–4	5.1,4.9b		
BJI	III	09 03 18 57.3	38.74N	142.99E	21	5.9s,5.7		
MOS	III	09 03 18 59.7–2.2	38.40N	142.80E	33	5.2b,5.7		
NEIC	III	09 03 18 59.7–1.6	38.71N	143.07E	23–11	5.0b,5.7		

ISC Event type se.
IDC Error ellipse: s-maj=13.4km s-min=11.5km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=144.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=104.8.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=137.0. Recorded [1 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 04 05 53.7–.54**	**38.72N–.04**	**142.95E–.04**	**29–3**	**5.1b**	**392**	**1-145**
NIED	III	09 04 05 00	38.60N	143.10E	20	5.4W		¶17193516
IDC	III	09 04 05 48.1–.52	38.59N	143.23E	0	4.7,4.6		
BJI	III	09 04 05 49.4	38.75N	142.85E	11	5.9b,5.8s		
JMA	III	09 04 05 50.4–.20	38.60N	143.13E	9	5.6,5.8s		
ISCJB	III	09 04 05 51.6–.93	38.74N–.03	142.84E–.03	21–6	5.8s,5.0b		
MOS	III	09 04 05 53.8–1.0	38.86N	142.91E	36	5.3b,5.0b		
NEIC	III	09 04 05 55.0–.23	38.66N	142.75E	35	5.2b,5.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ26.00000°,λ103.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ84.00000°. $M_0$1.51000×10^{17}
IDC Error ellipse: s-maj=13.4km s-min=11.4km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=140.7.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=109.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=143.0. Recorded [2 JMA] in Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 04 09 17.6–.61**	**38.74N–.07**	**143.22E–.07**	**23**	**4.5b**	**62**	**1-88**
IDC	III	09 04 09 13.6–.68	38.67N	143.36E	0	4.4,4.3		¶16318197
ISCJB	III	09 04 09 15.5–.44	38.67N–.05	143.30E–.06	23	5.6s,4.3b		
JMA	III	09 04 09 16.9–.40	38.62N	143.13E	17	4.5,4.3b		
MOS	III	09 04 09 17.5–.89	38.66N	143.30E	42	4.7b,4.3b		
NEIC	III	09 04 09 19.5–.89	38.66N	143.27E	39–7	4.3b,4.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=14.1km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.0km az=140.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=11.7km s-min=7.5km az=78.1.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.0km az=119.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 04 15 38.3–.46**	**38.70N–.05**	**143.00E–.05**	**23**	**5.3s,4.6b**	**187**	**1-117**
IDC	III	09 04 15 33.7–.57	38.57N	143.14E	0	4.4,4.3		¶16295215
BJI	III	09 04 15 35.8	38.74N	142.87E	14	5.5b,5.5s		
ISCJB	III	09 04 15 36.0–.31	38.67N–.03	143.12E–.04	23	5.2s,4.5b		

JMA III 09 04 15 36.0–.20 38.60N 143.21E 33 4.9,4.5b
MOS III 09 04 15 37.1–1.1 38.69N 143.11E 32 4.8b,4.5b
NEIC III 09 04 15 40.5–.80 38.69N 142.97E 39–6 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=13.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.3km az=42.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=5.5km az=99.5.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.5km az=121.0.

(228) Near east coast of eastern Honshu

ISC III 09 04 32 08.7–.48 38.68N–.04 143.17E–.04 31–2 5.1b 873 1-145
IDC III 09 04 32 04.1–.44 38.62N 143.20E 0 4.8,4.8 **¶16293282**
JMA III 09 04 32 05.5–.30 38.62N 143.28E 22–5 5.1,4.8
ISCJB III 09 04 32 05.7–.73 38.66N–.02 143.14E–.02 19–5 5.4s,5.1b
MOS III 09 04 32 08.2–1.0 38.81N 143.08E 33 5.4b,5.1b
BJI III 09 04 32 08.7 38.72N 142.77E 28 6.0b,5.6s
NEIC III 09 04 32 09.7–.58 38.67N 143.03E 35–5 5.1b,5.6s
ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=10.0km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.5km az=154.2.
MOS Error ellipse: s-maj=6.1km s-min=3.7km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=140.0. Recorded [2 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC III 09 04 37 02.7–.35 38.66N–.03 143.12E–.03 24–2 6.1s,5.6b 1445 1-159
NIED III 09 04 36 00 38.60N 143.20E 23 5.9W,5.6b **¶16293283**
IDC III 09 04 36 59.1–.36 38.63N 143.11E 0 6.0,6.0s
JMA III 09 04 36 59.1–.20 38.61N 143.25E 11–4 6.1,6.0s
BJI III 09 04 37 00.0 38.60N 143.05E 20 6.3b,6.2
ISCJB III 09 04 37 01.1–.66 38.67N–.02 143.06E–.02 20–4 6.1s,5.5b
MOS III 09 04 37 03.4–.86 38.80N 143.01E 33 5.8b,5.5b
NEIC III 09 04 37 05.0–.49 38.67N 142.99E 38–4 5.6b,5.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ66.00000°,λ93.00000°. $M_0$7.56000×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=8.9km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=160.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=103.7.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=135.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC III 09 04 45 53.2–.43 38.46N–.03 142.82E–.04 30–2 5.5s,5.4b 801 1-155
IDC III 09 04 45 48.7–.37 38.43N 142.84E 0 5.1,5.1 **¶16293284**
JMA III 09 04 45 50.5–.20 38.44N 142.94E 22–3 5.3,5.1
ISCJB III 09 04 45 51.6–.79 38.45N–.02 142.73E–.02 25–5 5.5s,5.3b
BJI III 09 04 45 52.5 38.46N 142.52E 25 6.0b,5.7s
MOS III 09 04 45 53.7–.82 38.72N 142.71E 33 5.6b,5.7s
NEIC III 09 04 45 55.2–.48 38.47N 142.70E 41–4 5.3b,5.7s
ISC Event type fe.
IDC Error ellipse: s-maj=10.7km s-min=8.9km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=146.4.
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=139.0. Felt at Sendai. Recorded [2 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC III 09 06 25 12.5–.42 38.32N–.03 143.18E–.03 15–2 5.2b,5.0s 581 1-154
NIED III 09 06 25 00 38.20N 143.50E 23 5.0W,5.0s **¶16293288**
JMA III 09 06 25 06.4–.20 38.21N 143.57E 6–4 5.1,5.0s
IDC III 09 06 25 09.3–.48 38.21N 143.27E 0 5.0,4.9
ISCJB III 09 06 25 09.9–.90 38.25N–.02 143.13E–.03 8–5 5.1b,5.0s
BJI III 09 06 25 11.8 38.33N 142.82E 13 5.5b,5.3b
NEIC III 09 06 25 14.6–1.4 38.27N 143.05E 27–10 5.0b,5.3b
MOS III 09 06 25 14.9–.79 38.53N 143.03E 33 5.4b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ32.00000°,λ91.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ90.00000°. $M_0$3.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=10.7km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=147.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=135.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=110.0.

(704) Nicobar Islands region

ISC III 09 13 57 27.8–.32 8.68N–.03 92.36E–.04 21–4 5.2b,4.3s 559 2-160
IDC III 09 13 57 24.6–.32 8.71N 92.47E 0 4.8,4.8b **¶16295225**
ISCJB III 09 13 57 24.8–.67 8.66N–.02 92.36E–.02 15–4 5.1b,4.3s
BJI III 09 13 57 25.7 8.54N 92.45E 31 5.1b,5.1b
NEIC III 09 13 57 28.1–.32 8.66N 92.41E 24–2 5.3b,5.1b
MOS III 09 13 57 28.0–1.1 8.77N 92.47E 33 5.3b,4.4s
DJA III 09 13 57 32.6–.40 9N–3.0 93E–3.0 40–4 5.8b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(228) Near east coast of eastern Honshu

ISC III 09 18 16 16.1–.24 38.28N–.02 142.70E–.02 25–1 5.9s,5.8b 2057 1-163
NIED III 09 18 16 00 38.30N 142.90E 23 6.0W,5.8b **¶602442182**
IDC III 09 18 16 11.8–.31 38.29N 142.73E 0 6.0,6.0s
BJI III 09 18 16 12.5 38.35N 142.50E 20 6.4s,6.3
JMA III 09 18 16 14.1–.10 38.27N 142.88E 29–2 6.4,6.3
ISCJB III 09 18 16 14.1–.45 38.29N–.01 142.74E–.01 22–3 6.0s,5.8b
NEIC III 09 18 16 15.0–.00 38.13N 142.94E 20 6.0s,5.8b
MOS III 09 18 16 15.3–.76 38.42N 142.82E 33 6.2s,6.0b
GCMT III 09 18 16 16.4–.10 38.33N 142.80E 29–0 6.1W,6.0b
NEIC III 09 18 16 16.4–.11 38.32N 142.43E 22 6.0W,6.0W
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ19.00000°,λ89.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ90.00000°. $M_0$1.10000×10^{18}
IDC Error ellipse: s-maj=7.1km s-min=6.2km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=160.0.
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}0.66 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-0.53 $M_{r\theta}$0.52 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.04 Best double couple: NP1:ϕ_s25.00000°,δ76.00000°,λ93.00000°. NP2:ϕ_s195.00000°,δ14.00000°,λ79.00000°. Principal axes: T 1.3600,Plg58.0000°,Azm299.0000°; N -0.0900,Plg2.0000°,Azm204.0000° ; P -1.2700,Plg30.0000°,Azm113.0000° $M_0$1.30000×10^{18}
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=101.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c271; s134,c430;Duration: 2$\hat{s}$6 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$-0.89±.01; $M_{r\theta}$0.51±.01; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$1.15±.02; Best double couple: NP1:ϕ_s22.00000°,δ71.00000°,λ94.00000°. NP2:ϕ_s192.00000°,δ19.00000°,λ80.00000°. Principal axes: T 1.5690,Plg64.0000°,Azm298.0000°; N 0.0320,Plg3.0000°,Azm201.0000° ; P -1.6010,Plg26.0000°,Azm110.0000° $M_0$1.58500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=145.0. Felt [III] at Misawa. Also felt at Mito, Otawara, Tatebayashi, Tokyo, Yokohama and Yokosuka. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$2.80000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ25.00000°,λ42.00000°. NP2:ϕ_s24.00000°,δ74.00000°,λ109.00000°. Principal axes: T 1.2500,Plg57.0000°,Azm319.0000°; N 0.0800,Plg18.0000°,Azm198.0000° ; P -1.3300,Plg26.0000°,Azm99.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s210.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s30.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm300.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm120.0000°

(229) Off east coast of Honshu

ISC III 09 18 44 37.3–.37 38.52N–.02 143.33E–.03 20–1 5.9s,5.7b 1784 1-160
NIED III 09 18 44 00 38.50N 143.40E 11 5.8W,5.7b **¶16295231**
BJI III 09 18 44 33.4 38.50N 143.30E 10 6.4s,6.2
IDC III 09 18 44 33.9–.34 38.41N 143.28E 0 5.7,5.7s
ISCJB III 09 18 44 34.1–.56 38.50N–.02 143.27E–.01 6–3 6.0s,5.7b
JMA III 09 18 44 35.7–.20 38.48N 143.43E 36 6.3,5.7b
NEIC III 09 18 44 35.0–.00 38.50N 143.40E 20 6.3,5.7b
MOS III 09 18 44 38.2–1.0 38.68N 143.24E 33 6.0s,5.9b
GCMT III 09 18 44 38.5–.10 38.47N 143.50E 18–0 5.9W,5.9b
NEIC III 09 18 44 38.5–1.2 38.50N 143.17E 24–8 5.9W,5.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ24.00000°,λ80.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ94.00000°. $M_0$5.90000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=7.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=161.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}2.60 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-2.70 $M_{r\theta}$3.70 $M_{\theta\phi}$-0.50 $M_{\phi r}$7.10 Best double couple: NP1:ϕ_s26.00000°,δ81.00000°,λ95.00000°. NP2:ϕ_s175.00000°,δ10.00000°,λ59.00000°. Principal axes: T 8.5000,Plg53.0000°,Azm302.0000°; N -0.1000,Plg5.0000°,Azm205.0000° ; P -8.3000,Plg35.0000°,Azm111.0000° $M_0$8.00000×10^{17}
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=101.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c230; s134,c376;Duration: 2$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}4.61±.08 $M_{\theta\theta}$-0.24±.05; $M_{\phi\phi}$-4.36±.06; $M_{r\theta}$3.09±.14; $M_{\theta\phi}$-1.45±.04; $M_{\phi r}$6.49±.21; Best double couple: NP1:ϕ_s24.00000°,δ73.00000°,λ94.00000°. NP2:ϕ_s190.00000°,δ17.00000°,λ77.00000°. Principal axes: T 8.5260,Plg61.0000°,Azm300.0000°; N 0.1490,Plg4.0000°,Azm203.0000° ; P -8.6690,Plg28.0000°,Azm111.0000° $M_0$8.59700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=144.0. Felt at Misawa and Tokyo. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC III 09 21 22 17.8–.38 38.30N–.03 142.82E–.03 29–2 6.5s,5.9b 1689 1-161
NIED III 09 21 22 00 38.10N 143.20E 23 6.0W,5.9b **¶602651127**
JMA III 09 21 22 11.4–.10 38.13N 143.22E 18–3 6.3,5.9b
BJI III 09 21 22 12.7 38.30N 142.70E 10 6.5s,6.4
IDC III 09 21 22 13.2–.43 38.27N 142.89E 0 5.3,5.3
ISCJB III 09 21 22 15.0–.59 38.29N–.02 142.80E–.02 21–4 6.5s,5.8b
NEIC III 09 21 22 17.6–.12 38.35N 142.65E 23 5.9b,5.7
GCMT III 09 21 22 17.6–.20 38.29N 142.91E 22–1 6.0W,5.7
MOS III 09 21 22 18.6–1.0 38.57N 142.66E 33 6.0b,5.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ24.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ66.00000°,λ86.00000°. $M_0$1.05000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=1.8km az=156.3.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=150.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s220.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s40.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm310.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm130.0000°
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c332; s134,c543;Duration: 2$\hat{s}$9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.70±.03 $M_{\theta\theta}$-0.02±.02; $M_{\phi\phi}$-0.68±.02; $M_{r\theta}$0.27±.04; $M_{\theta\phi}$-0.23±.01; $M_{\phi r}$0.79±.05; Best double couple: NP1:ϕ_s19.00000°,δ70.00000°,λ91.00000°. NP2:ϕ_s195.00000°,δ20.00000°,λ87.00000°. Principal axes: T 1.0830,Plg65.0000°,Azm290.0000°; N 0.0520,Plg1.0000°,Azm198.0000° ; P -1.1350,Plg25.0000°,Azm108.0000° $M_0$1.10900×10^{18}
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=101.2.

(228) Near east coast of eastern Honshu

ISC III 09 21 24 01.8–.54 38.24N–.03 142.87E–.03 15–2 6.5s,6.0b 663 1-160
NIED III 09 21 23 00 38.20N 143.00E 20 6.5W,6.0b **¶16337993**
ISCJB III 09 21 23 57.8–.85 38.21N–.02 142.93E–.02 1–5 6.5s,5.9b
JMA III 09 21 23 59.7–.20 38.17N 143.04E 9–3 6.8,5.9b
IDC III 09 21 23 59.4–.45 38.32N 142.79E 0 6.6,6.6s
BJI III 09 21 23 59.0 38.30N 143.05E 10 6.9b,6.9s
NEIC III 09 21 24 01.7–1.7 38.30N 142.81E 15–10 6.4s,6.0b
GCMT III 09 21 24 02.7–.10 38.27N 142.82E 23–0 6.5W,6.0b
MOS III 09 21 24 03.3–1.2 38.38N 142.88E 33 6.1b,6.0b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ85.00000°. $M_0$5.51000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=136.0. Felt [III] at Tokyo and [II] at Misawa. Felt widely in eastern Honshu. Recorded [4 JMA] in Miyagi. Moment Tensor Solution. $M_0$6.30000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c305; s144,c551;Duration: 4$\hat{s}$1 Moment tensor: Scale 10^{18} Nm; M_{rr}3.79±.03 $M_{\theta\theta}$-0.28±.02; $M_{\phi\phi}$-3.51±.03; $M_{r\theta}$1.90±.05; $M_{\theta\phi}$-1.04±.02; $M_{\phi r}$4.42±.06; Best double couple: NP1:ϕ_s22.00000°,δ71.00000°,λ94.00000°. NP2:ϕ_s191.00000°,δ19.00000°,λ80.00000°. Principal axes: T 6.1370,Plg64.0000°,Azm298.0000° ; N -0.0060,Plg3.0000°,Azm201.0000°; P -6.1280,Plg26.0000°,Azm109.0000° $M_0$6.13300×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=4.9km az=98.8.

(192) New Britain region

ISC III 09 21 24 52.1–.32 6.12S–.03 149.79E–.03 51–2 6.4s,5.8b 569 3-155
ISCJB III 09 21 24 49.0–1.1 6.00S–.02 149.72E–.02 33–7 6.4s,5.7b **¶602442187**
NEIC III 09 21 24 49.8–.17 5.99S 149.78E 29 6.5s,6.4W
GCMT III 09 21 24 49.8–.10 6.26S 149.75E 51–0 6.3W,6.4W
BJI III 09 21 24 49.1 5.95S 149.65E 30 6.5s,6.4b
MOS III 09 21 24 50.7–.98 6.00S 149.71E 47 6.2s,6.0b
NEIC III 09 21 24 51.0–.00 6.02S 149.66E 29 6.2s,6.0b
IDC III 09 21 24 51.7–.56 6.13S 150.14E 53–5 6.0s,6.0
DJA III 09 21 24 58.5–.60 6S–3.0 150E–4.0 92–5 6.6,6.3b
ISC Event type se.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Kimbe. Depth from synthetics of broadband displacement seismograms.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c207; s131,c468;Duration: 3$\hat{s}$6 Moment tensor: Scale 10^{18} Nm; M_{rr}3.75±.04 $M_{\theta\theta}$-3.96±.02; $M_{\phi\phi}$0.20±.03; $M_{r\theta}$0.39±.02; $M_{\theta\phi}$-0.28±.02; $M_{\phi r}$-0.21±.03; Best double couple: NP1:ϕ_s90.00000°,δ48.00000°,λ95.00000°. NP2:ϕ_s262.00000°,δ42.00000°,λ84.00000°. Principal axes: T 3.7840,Plg85.0000°,Azm50.0000° ; N 0.2060,Plg4.0000°,Azm266.0000°; P -3.9970,Plg3.0000°,Azm176.0000° $M_0$3.89000×10^{18}
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{18}Nm; M_{rr}4.30 $M_{\theta\theta}$-4.00 $M_{\phi\phi}$-0.30 $M_{r\theta}$3.30 $M_{\theta\phi}$-0.50 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s81.00000°,δ64.00000°,λ89.00000°. NP2:ϕ_s264.00000°,δ26.00000°,λ93.00000°. Principal axes: T 5.5000,Plg70.0000°,Azm347.0000°; N -0.3000,Plg1.0000°,Azm81.0000° ; P -5.2000,Plg19.0000°,Azm171.0000° $M_0$5.00000×10^{18}

(229) Off east coast of Honshu

ISC III 09 23 36 59.3–.54 38.46N–.03 143.24E–.03 26–3 5.4b,4.8s 1348 1-160
NIED III 09 23 36 00 38.40N 143.40E 8 5.0W,4.8s **¶16299022**
IDC III 09 23 36 55.2–.33 38.39N 143.25E 0 5.2,5.2
ISCJB III 09 23 36 55.2–.82 38.39N–.02 143.25E–.02 9–5 5.4b,4.9s
JMA III 09 23 36 56.1–.10 38.39N 143.41E 35 5.2,4.9s
MOS III 09 23 36 57.9–.81 38.63N 143.14E 19 5.6b,4.5s
NEIC III 09 23 36 58.7–1.2 38.40N 143.17E 20–7 5.4b,4.5s
BJI III 09 23 37 00.4 38.45N 142.77E 33 5.5b,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ37.00000°,λ95.00000°. NP2:ϕ_s45.00000°,δ53.00000°,λ86.00000°. $M_0$3.39000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=8.6km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=101.1.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=137.0. Recorded [2 JMA] in Miyagi.

(297) Myanmar-China border region

ISC III 10 04 58 16.5–.34 24.76N–.03 97.90E–.02 24–2 5.5b,5.3s 838 4-169
IDC III 10 04 58 11.9–.35 24.71N 97.97E 0 5.5L,5.2 **¶16298683**
BJI III 10 04 58 12.4 24.65N 97.95E 10 5.9s,5.6

NEIC III 10 04 58 13.8–.12 24.73N 97.96E 10 5.4L,5.4b
MOS III 10 04 58 14.4–.98 24.68N 97.96E 27 5.7b,5.2s
GCMT III 10 04 58 15.7–.10 24.64N 97.98E 15 5.5W,5.2s
ISCJB III 10 04 58 15.1–.10 24.70N–.02 97.95E–.02 30 5.4b,5.3s
BKK III 10 04 58 17.0–6.0 24N–47 98E–21 10 6.1,5.6b
ISC Event type de.
NEIC Event type de. Twenty-five people killed, 250 injured, 1,039 homes destroyed, 12,528 buildings damaged, several roads damaged and electricity and telecommunications disrupted in the Pingyuan area, China. Felt at Dali. Also felt at Khonsa, India.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c172; s128,c271;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.02 $M_{\theta\theta}$-1.68±.02; $M_{\phi\phi}$1.33±.02; $M_{r\theta}$-0.09±.06; $M_{\theta\phi}$1.18±.02; $M_{\phi r}$0.33±.07; Best double couple: NP1:ϕ_s333.00000°,δ85.00000°,λ169.00000°. NP2:ϕ_s64.00000° ,δ79.00000°,λ5.00000°. Principal axes: T 1.7930,Plg11.0000°,Azm288.0000° ; N 0.3090,Plg78.0000°,Azm131.0000°; P -2.1030,Plg5.0000°,Azm19.0000° M_o1.94800×10^{17}
ISCJB Event type de.
(229) Off east coast of Honshu
ISC III 10 08 08 20.7–.37 38.64N–.03 143.37E–.03 23–2 5.4s,5.3b 1228 1-159
NIED III 10 08 08 00 38.50N 143.70E 11 5.6W,5.3b **¶16298689**
IDC III 10 08 08 16.6–.41 38.56N 143.43E 0 5.3,5.3s
ISCJB III 10 08 08 16.7–.66 38.59N–.02 143.40E–.02 6–4 5.5s,5.3b
BJI III 10 08 08 17.7 38.61N 143.16E 12 6.0s,5.9
JMA III 10 08 08 18.1–.10 38.57N 143.54E 34 5.9,5.9
NEIC III 10 08 08 20.6–.50 38.60N 143.27E 17–3 5.6W,5.4b
GCMT III 10 08 08 20.6–.10 38.53N 143.61E 17–0 5.7W,5.4b
MOS III 10 08 08 22.5–1.0 38.89N 143.25E 33 5.5b,5.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ29.00000°,λ70.00000°. NP2:ϕ_s28.00000°,δ63.00000°,λ101.00000°. M_o2.41000×10^{17}
IDC Error ellipse: s-maj=12.3km s-min=10.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=165.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=149.0. Recorded [2 JMA] in Fukushima, Iwate, Miyagi and Yamagata. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}1.96 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$-1.41 $M_{r\theta}$1.73 $M_{\theta\phi}$-0.64 $M_{\phi r}$2.24 Best double couple: NP1:ϕ_s203.00000°,δ17.00000°,λ77.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ94.00000°. Principal axes: T 3.5000,Plg61.0000°,Azm312.0000°; N -0.2300,Plg4.0000°,Azm215.0000° ; P -3.2600,Plg28.0000°,Azm123.0000° M_o3.40000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s106,c193; s135,c337;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.08±.04 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$-1.96±.03; $M_{r\theta}$1.50±.08; $M_{\theta\phi}$-0.64±.02; $M_{\phi r}$2.83±.11; Best double couple: NP1:ϕ_s26.00000° ,δ73.00000°,λ95.00000°. NP2:ϕ_s188.00000°,δ17.00000°,λ73.00000°. Principal axes: T 3.8280,Plg61.0000°,Azm304.0000°; N 0.0280,Plg5.0000°,Azm205.0000° ; P -3.8540,Plg28.0000°,Azm112.0000° M_o3.84100×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=104.7.
(229) Off east coast of Honshu
ISC III 10 09 02 21.6–.36 38.67N–.03 143.29E–.03 25–2 5.3s,5.3b 1155 1-159
NIED III 10 09 02 00 38.60N 143.50E 14 5.3W,5.3b **¶602651810**
JMA III 10 09 02 18.0–.20 38.59N 143.46E 23–5 5.4,5.3b
BJI III 10 09 02 18.2 38.66N 143.02E 8 5.6b,5.5s
IDC III 10 09 02 20.0–3.0 38.59N 143.31E 15–18 4.9,4.9
ISCJB III 10 09 02 19.3–.70 38.60N–.02 143.25E–.02 18–4 5.2s,5.2b
MOS III 10 09 02 22.9–.81 38.92N 143.06E 33 5.5b,5.3s
GCMT III 10 09 02 23.7–.10 38.62N 143.42E 23–0 5.3W,5.3s
NEIC III 10 09 02 24.0–.42 38.62N 143.12E 38–3 5.2b,5.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ26.00000°,λ95.00000°. NP2:ϕ_s19.00000°,δ64.00000°,λ88.00000°. M_o8.48000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=9.2km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=158.2.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=105.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c111; s123,c219; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.03 $M_{\theta\theta}$-0.11±.01; $M_{\phi\phi}$-0.67±.02; $M_{r\theta}$0.34±.02; $M_{\theta\phi}$-0.17±.01; $M_{\phi r}$0.79±.03; Best double couple: NP1:ϕ_s21.00000°,δ69.00000° ,λ93.00000°. NP2:ϕ_s191.00000°,δ21.00000°,λ81.00000°. Principal axes: T 1.1830,Plg65.0000°,Azm297.0000°; N -0.0720,Plg3.0000°,Azm200.0000° ; P -1.1110,Plg24.0000°,Azm108.0000° M_o1.14700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=138.0. Recorded [1 JMA] in Iwate, Miyagi and Yamagata.
(228) Near east coast of eastern Honshu
ISC III 10 11 21 08.4–.41 38.58N–.04 143.22E–.03 26–2 5.2b,5.0s 972 1-145
NIED III 10 11 21 00 38.50N 143.40E 14 5.1W,5.0s **¶16298807**
IDC III 10 11 21 04.5–.50 38.52N 143.17E 0 4.9,4.9
ISCJB III 10 11 21 05.0–.73 38.56N–.02 143.14E–.02 11–4 5.2b,5.0s
BJI III 10 11 21 05.6 38.55N 142.91E 14 5.3s,5.2b
JMA III 10 11 21 05.0–.20 38.52N 143.31E 23 5.2,5.2b
GCMT III 10 11 21 09.1–.20 38.58N 143.25E 22–0 5.2W,5.2b
NEIC III 10 11 21 09.2–1.2 38.59N 143.04E 25–8 5.2b,5.2b
MOS III 10 11 21 10.0–.85 38.87N 142.98E 33 5.5b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ25.00000°,λ94.00000°. NP2:ϕ_s19.00000°,δ65.00000°,λ88.00000°. M_o5.04000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.3km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.1km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c86; s108,c174; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.55±.16 $M_{\theta\theta}$-0.57±.10; $M_{\phi\phi}$-3.98±.11; $M_{r\theta}$2.26±.17; $M_{\theta\phi}$-1.15±.06; $M_{\phi r}$4.39±.19; Best double couple: NP1:ϕ_s24.00000°,δ69.00000° ,λ95.00000°. NP2:ϕ_s191.00000°,δ21.00000°,λ77.00000°. Principal axes: T 6.7840,Plg66.0000°,Azm303.0000°; N -0.2920,Plg5.0000°,Azm203.0000° ; P -6.4940,Plg24.0000°,Azm111.0000° M_o6.63900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=139.0. Recorded [2 JMA] in Miyagi.
MOS Error ellipse: s-maj=5.7km s-min=3.4km az=105.8.
(684) Southern East Pacific Rise
ISC III 11 00 14 48.4–.29 53.15S–.10 117.75W–.08 10 5.4s,5.2b 146 29-176
IDC III 11 00 14 46.7–.39 53.23S 117.85W 0 5.3s,5.3 **¶16461280**
ISCJB III 11 00 14 47.0–.29 53.23S–.08 117.8W–.10 10 5.4s,5.0b
MOS III 11 00 14 47.4–1.7 53.27S 117.66W 10 5.5s,5.4b
NEIC III 11 00 14 48.3–.21 53.21S 117.84W 10 5.4s,5.3b
GCMT III 11 00 14 48.3–.10 53.27S 118.18W 16–0 5.7W,5.3b
BJI III 11 00 14 50.4 54.40S 116.80W 10 5.5s,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=13.1km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.8km az=147.2.
MOS Error ellipse: s-maj=26.2km s-min=15.0km az=67.8.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.7km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c229; s130,c269;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.04 $M_{\theta\theta}$-2.41±.05; $M_{\phi\phi}$2.73±.04; $M_{r\theta}$0.65±.13; $M_{\theta\phi}$-3.00±.04; $M_{\phi r}$-0.16±.12; Best double couple: NP1: ϕ_s291.00000°,δ88.00000°,λ-170.00000°. NP2:ϕ_s200.00000°,δ80.00000°,λ-2.00000°. Principal axes: T 4.1490,Plg5.0000°,Azm65.0000°; N -0.2840,Plg80.0000°,Azm303.0000° ; P -3.8690,Plg9.0000°,Azm156.0000° M_o4.00900×10^{17}
(228) Near east coast of eastern Honshu
ISC III 11 05 46 23.2–.31 38.30N–.02 142.50E–.03 20–1 8.4s,7.1b 2497 1-163
NIED III 11 05 46 00 38.10N 142.90E 20 8.7W,7.1b **¶16461282**
JMA III 11 05 46 18.1–.20 38.10N 142.86E 24–3 9.0,7.1b
IDC III 11 05 46 19.8–.24 38.44N 142.52E 0 8.2,8.2s
BJI III 11 05 46 19.0 38.10N 142.50E 20 8.7s,8.6
ISCJB III 11 05 46 21.8–.06 38.29N–.01 142.71E–.01 20 8.4s,6.9b
MOS III 11 05 46 22.4–1.2 38.33N 142.51E 27 8.4s,7.3b
GCMT III 11 05 46 23.0–.20 37.52N 143.05E 20 9.1W,7.3b
NEIC III 11 05 46 23.0–.00 38.32N 142.97E 24 9.1W,7.3b
NEIC III 11 05 46 24.1–.10 38.30N 142.37E 29 9.0W,9.0W
NEIC III 11 05 47 47.2–.00 38.49N 142.60E 10 9.0W,9.0W
ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ27.00000°,λ88.00000°. NP2:ϕ_s22.00000°,δ63.00000°,λ91.00000°. M_o1.07000×10^{22}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=8.0km s-min=6.9km az=100.0.
ISCJB Event type de. Error ellipse: s-maj=2.1km s-min=1.5km az=158.7.
MOS Event type fe. Error ellipse: s-maj=5.3km s-min=3.2km az=104.0. Mo 4.8E21 n.m, Mw 8.4(ARU) Mo 3.9E21 n.m, Mw 8.4(OBN) Mo 3.9E21 n.m, Mw 8.4(KIV) Mo 1.5E21 n.m, Mw 8.1(TLY) Fault plane solution: -wave C117, D42 . Felt (IV) at Yuzhno-Kuril'sk, Kuril'sk; (III) at Malokuril'skoye. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ71.00000°,λ105.00000°. NP2:ϕ_s154.00000°,δ24.00000°,λ53.00000°. Principal axes: T Plg61.0000°,Azm306.0000°; N Plg14.0000°,Azm189.0000°; P Plg25.0000° ,Azm93.0000°
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves. nsta2 refers to mantle waves, cutoff=300s. Moment Tensor Solution. s100,c271;Duration: 70s0 Moment tensor: Scale 10^{22}Nm; M_{rr}1.73±.01 $M_{\theta\theta}$-0.28±.01; $M_{\phi\phi}$-1.45±.01; $M_{r\theta}$2.12±.07; $M_{\theta\phi}$-0.66±.00; $M_{\phi r}$4.55±.07; Best double couple: NP1:ϕ_s25.00000°,δ80.00000°,λ90.00000°. NP2:ϕ_s203.00000°,δ10.00000°,λ88.00000°. Principal axes: T 5.3050,Plg55.0000° ,Azm295.0000°; N 0.0140,Plg0.0000°,Azm205.0000°; P -5.3190,Plg35.0000°,Azm115.0000° M_o5.31200×10^{22}
NEIC Event type se. Moment Tensor Solution. s256 Moment tensor: Scale 10^{22}Nm; M_{rr}1.82 $M_{\theta\theta}$-0.13 $M_{\phi\phi}$-1.69 $M_{r\theta}$1.34 $M_{\theta\phi}$-0.56 $M_{\phi r}$3.17 Best double couple: NP1:ϕ_s22.00000° ,δ76.00000°,λ92.00000°. NP2:ϕ_s193.00000°,δ14.00000°,λ81.00000°. Principal axes: T 3.8800,Plg59.0000°,Azm295.0000°; N 0.0300,Plg2.0000°,Azm201.0000° ; P -3.9200,Plg30.0000°,Azm110.0000° M_o3.90000×10^{22}
NEIC Event type de. Error ellipse: s-maj=3.3km s-min=2.5km az=142.0. slightly in the Galapagos Islands, Ecuador by a tsunami with a recorded wave height of 208 cm at Santa Cruz. Several houses destroyed at Pisco, Peru. Several buildings destroyed at Dichato and several boats damaged at Puerto Viejo and on Isla Chiloe, Chile. Felt [VIII] at Fukushima, [VII] at Agui, Hiratsuka, Kiryu, Komae, Oyama, Sendai and Tsukuba and [VI] in much of eastern Honshu, including the Tokyo-Yokohama area, Japan. Felt from Hokkaido to Kyushu. Recorded [7 JMA] in Miyagi. Felt in Northern Mariana Islands, North Korea, South Korea, Taiwan, northeastern China and southeastern Russia as far as Kaohsiung, Beijing and Petropavlovsk-Kamchatskiy. Seiches observed at Leikanger, Norway. Water fluctuations observed in a well in Newfoundland, Canada. The tsunami had maximum runup heights of 29.6 m at Ofunato, 18.4 m at Onagawa and 9.4 m at Iwaki. Wave heights in centimeters [above sea level] were recorded at the following selected tide gauges: 250 at Arica, Chile; 282 at Hanasaki and 157 at Omaezaki, Japan; 163 at Manzanillo, Mexico; 156 on Midway Island; 97 on Chatham Island, New Zealand; 109 at Manus, Papua New Guinea; 173 at Callao, Peru; 250 at Kahului, Hawaii, USA; 202 at Port Orford, Oregon; 157 at Shemya, Alaska. The tsunami also caused some massive slabs of ice to calve from the Sulzberger Ice Shelf, Antarctica. At least 15,703 people killed, 4,647 missing, 5,314 injured, 130,927 displaced and at least 332,395 buildings, 2,126 roads, 56 bridges and 26 railways destroyed or damaged by the earthquake and tsunami along the entire east coast of Honshu from Chiba to Aomori. The majority of casualties and damage occurred in Iwate, Miyagi and Fukushima from a Pacific-wide tsunami with a maximum runup height of 37.88 m at Miyako. The total economic loss in Japan was estimated at 309 billion US dollars. Electricity, gas and water supplies, telecommunications and railway service disrupted and several reactors severely damaged at a nuclear power plant near Okuma. Several fires occurred in Chiba and Miyagi. At least 1,800 houses destroyed when a dam failed in Fukushima. Maximum acceleration of 2.93 g recorded at Tsukidate. Horizontal displacement and subsidence observed. Landslides occurred in Miyagi. Liquefaction observed at Chiba, Odaiba, Tokyo and Urayasu. The tsunami destroyed or severely damaged many coastal towns in the Kuji-Minamisanriku-Nami area. One person killed and several houses destroyed at Jayapura, Indonesia by a tsunami with a wave height of 2 m. One person killed south of Crescent City, California and several boats and docks destroyed or damaged at Crescent City by a tsunami with a recorded wave height of 247 cm. Several houses, boats and docks destroyed or damaged at Santa Cruz, California; Brookings, Oregon; Hale'iwa, Kailua Kona and Kealakekua, Hawaii. Some buildings damaged. Complex earthquake observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. M_o3.00000×10^{22}
NEIC Event type se. Moment Tensor Solution. s151 Moment tensor: Scale 10^{22}Nm; M_{rr}2.03 $M_{\theta\theta}$-0.16 $M_{\phi\phi}$-1.87 $M_{r\theta}$2.06 $M_{\theta\phi}$-0.60 $M_{\phi r}$3.49 Best double couple: NP1:ϕ_s187.00000° ,δ14.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ95.00000°. Principal axes: T 4.5700,Plg58.0000°,Azm306.0000°; N -0.0500,Plg5.0000°,Azm208.0000° ; P -4.5200,Plg32.0000°,Azm115.0000° M_o4.50000×10^{22}
(228) Near east coast of eastern Honshu
ISC III 11 05 54 31.5–.45 37.51N–.05 141.36E–.07 35 6.2b 171 0-152
IDC III 11 05 54 26.6–.73 37.67N 141.29E 0 6.0,5.9 **¶602653817**
MOS III 11 05 54 30.5–.88 37.69N 141.21E 35 6.5b,5.9
ISCJB III 11 05 54 30.6–.21 37.53N–.03 141.36E–.04 35 6.1b,5.9
JMA III 11 05 54 31.3–.10 37.51N 141.35E 34–2 6.1,5.9
NEIC III 11 05 54 31.9–1.9 37.71N 141.18E 32–13 6.3b,5.9
ISC Event type ke.
IDC Error ellipse: s-maj=22.4km s-min=17.4km az=160.0.
MOS Error ellipse: s-maj=16.5km s-min=8.0km az=71.7.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=159.5.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=135.0.
(229) Off east coast of Honshu
ISC III 11 05 55 45.2–.36 37.30N–.06 143.41E–.07 35 6.3b 152 2-150
IDC III 11 05 55 39.6–.56 37.25N 143.56E 0 5.9,5.8 **¶602653811**
ISCJB III 11 05 55 43.4–.22 37.28N–.04 143.31E–.05 33 6.2b,5.8
MOS III 11 05 55 43.1–1.4 37.25N 143.55E 33 6.6b,5.8
NEIC III 11 05 55 45.5–.25 37.36N 143.35E 35 6.4b,5.8
JMA III 11 05 55 53.4–.10 36.49N 141.77E 55 6.0,5.8
ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=14.0km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=140.4.
MOS Error ellipse: s-maj=12.9km s-min=8.9km az=88.2.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.6km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 05 58 02.3–1.5 37.67N–.04 142.05E–.05 9–9 6.1b 165 1-146
IDC III 11 05 58 00.3–.59 37.61N 142.14E 0 5.9,5.9b **¶602653796**
ISCJB III 11 05 58 04.3–.69 37.67N–.03 142.07E–.05 36–5 6.1b,5.9b
MOS III 11 05 58 04.3–.99 37.59N 142.18E 41 6.5b,5.9b
JMA III 11 05 58 05.5–.20 37.69N 141.93E 35–4 6.6,5.9b
NEIC III 11 05 58 07.5–.75 37.62N 142.16E 51–6 6.3b,5.9b
ISC Event type ke.
IDC Error ellipse: s-maj=15.2km s-min=13.0km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.1km az=25.4.
MOS Error ellipse: s-maj=10.0km s-min=7.1km az=90.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=118.0.
(228) Near east coast of eastern Honshu
ISC III 11 05 59 35.3–.58 37.0N–.10 141.7E–.20 33 5.9b 89 4-151
IDC III 11 05 59 29.8–.81 37.11N 141.65E 0 5.9,5.6 **¶16403886**
NEIC III 11 05 59 31.6–3.7 37.05N 141.76E 8–23 5.9b,5.6
ISCJB III 11 05 59 33.1–.51 37.10N–.09 141.5E–.20 33 5.8b,5.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
(228) Near east coast of eastern Honshu
ISC III 11 06 00 35.6–.57 38.13N–.10 142.5E–.10 14 5.9b 45 5-150
IDC III 11 06 00 32.5–.96 38.01N 142.56E 0 5.7,5.6 **¶602653784**
ISCJB III 11 06 00 34.9–.45 38.26N–.08 142.42E–.10 14 5.8b,5.6
NEIC III 11 06 00 39.3–1.9 38.10N 142.49E 41–18 6.2b,5.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=24.9km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=9.8km az=141.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.4km az=141.0.
(228) Near east coast of eastern Honshu
ISC III 11 06 05 01.2–.31 36.41N–.05 141.69E–.06 26 5.7b 121 1-152
IDC III 11 06 04 56.7–.58 36.38N 141.86E 0 5.6,5.5 **¶602653767**
ISCJB III 11 06 04 59.2–.22 36.39N–.04 141.73E–.04 26 5.6b,5.5
MOS III 11 06 05 00.3–.98 36.35N 141.80E 33 5.9b,5.5
NEIC III 11 06 05 02.2–2.1 36.38N 141.78E 34–14 5.8b,5.5
JMA III 11 06 05 06.3–.10 37.52N 141.62E 22–2 5.9,5.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=15.0km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=5.0km az=147.7.

MOS Error ellipse: s-maj=15.6km s-min=9.3km az=85.5.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 06 10.0–.54**	**39.01N–.03**	**142.43E–.03**	**19–2**	**6.3b**	**1083**	**1-159**
IDC	III	11 06 06 06.7–.35	39.01N	142.37E	0	5.9,5.9		**¶602653765**
BJI	III	11 06 06 09.2	39.00N	142.30E	22	6.5s,6.4b		
ISCJB	III	11 06 06 09.9–.57	39.00N–.02	142.38E–.02	30–3	7.5s,6.2b		
JMA	III	11 06 06 10.7–.10	39.04N	142.40E	29–2	6.5,6.2b		
MOS	III	11 06 06 11.2–.90	39.02N	142.30E	40	6.5b,6.2b		
NEIC	III	11 06 06 13.2–.37	39.00N	142.29E	43–3	6.3b,6.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=157.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=95.6.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0. Recorded [5L JMA] in Aomori and Iwate.

(229) Off east coast of Honshu

ISC	**III**	**11 06 07 20.1–.61**	**36.39N–.04**	**141.97E–.04**	**29–4**	**6.3b**	**1132**	**1-165**
IDC	III	11 06 07 15.6–.30	36.46N	142.01E	0	6.0,5.9		**¶16304069**
JMA	III	11 06 07 16.1–.20	36.30N	142.23E	20–5	6.5,5.9		
BJI	III	11 06 07 18.6	36.30N	141.80E	30	6.5b,6.5s		
ISCJB	III	11 06 07 18.3–.95	36.40N–.02	141.97E–.02	28–6	7.1s,6.2b		
MOS	III	11 06 07 18.8–1.0	36.44N	141.92E	29	6.5b,6.2b		
NEIC	III	11 06 07 20.9–1.3	36.42N	141.88E	32–9	6.4b,6.2b		

ISC Event type se.
IDC Error ellipse: s-maj=9.9km s-min=8.7km az=109.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=162.9.
MOS Error ellipse: s-maj=6.6km s-min=4.6km az=103.8.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=131.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 08 32.5–.33**	**38.99N–.05**	**143.46E–.04**	**20**	**6.4b**	**294**	**1-155**
NIED	III	11 06 08 00	39.80N	142.80E	35	7.4W		**¶16304070**
NEIC	III	11 06 08 29.7–2.6	38.97N	143.37E	3–16	6.7b		
IDC	III	11 06 08 29.2–.45	38.93N	143.32E	0	7.7,7.7s		
ISCJB	III	11 06 08 30.7–.23	38.91N–.03	143.48E–.04	20	8.1s,6.3b		
JMA	III	11 06 08 53.4–.20	39.82N	142.77E	32–2	7.4,6.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ23.00000°,λ60.00000°. NP2:ϕ_s31.00000°,δ70.00000°,λ102.00000°. M_o1.40000×10^{20}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=134.0.
IDC Error ellipse: s-maj=13.7km s-min=12.1km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 11 15.5–.40**	**36.15N–.08**	**141.74E–.07**	**26**	**5.9b**	**148**	**1-152**
IDC	III	11 06 11 10.9–.73	36.08N	141.83E	0	7.0s,7.0		**¶16404863**
ISCJB	III	11 06 11 13.9–.24	36.13N–.05	141.64E–.04	26	5.8b,7.0		
MOS	III	11 06 11 13.9–1.1	36.08N	141.70E	29	6.2b,7.0		
NEIC	III	11 06 11 15.6–2.0	36.11N	141.70E	27–14	5.9b,7.0		
JMA	III	11 06 11 19.0	36.86N	140.62E	6–1	5.5,7.0		

ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=15.9km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.6km az=158.6.
MOS Error ellipse: s-maj=12.3km s-min=9.6km az=54.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=145.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 06 12 37.7–.38**	**37.88N–.06**	**144.36E–.07**	**35**	**6.0b**	**435**	**4-153**
IDC	III	11 06 12 31.9–.68	37.75N	144.36E	0	5.8,5.7		**¶603049301**
MOS	III	11 06 12 35.2–.83	37.84N	144.23E	29	6.4b,5.7		
ISCJB	III	11 06 12 35.7–.20	37.80N–.04	144.23E–.04	33	6.0b,5.7		
NEIC	III	11 06 12 36.4–1.7	37.79N	144.23E	25–11	6.2b,5.7		

ISC Event type ke.
IDC Error ellipse: s-maj=18.2km s-min=13.6km az=163.0.
MOS Error ellipse: s-maj=12.1km s-min=6.3km az=82.3.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=159.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=145.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 12 59.3–1.3**	**37.22N–.03**	**141.68E–.04**	**28–8**	**6.2b**	**966**	**1-152**
IDC	III	11 06 12 54.4–.37	37.18N	141.65E	0	6.1,6.1b		**¶16404864**
MOS	III	11 06 12 56.9–.90	37.20N	141.62E	23	6.4b,6.1b		
ISCJB	III	11 06 12 57.6–.62	37.18N–.02	141.65E–.02	26–4	6.1b,6.1b		
JMA	III	11 06 12 58.6–.10	37.23N	141.65E	39–2	6.7,6.1b		
NEIC	III	11 06 13 01.0–.57	37.21N	141.60E	40–5	6.2b,6.1b		

ISC Event type se.
IDC Error ellipse: s-maj=10.9km s-min=9.8km az=145.0.
MOS Error ellipse: s-maj=6.3km s-min=4.4km az=94.4.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=153.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.4km az=142.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 15 22.8–.40**	**37.90N–.07**	**143.92E–.08**	**35**	**5.9b**	**447**	**5-153**
IDC	III	11 06 15 19.2–.84	38.28N	144.05E	0	7.6,7.6s		**¶16404865**
NEIC	III	11 06 15 23.1–.29	37.93N	143.80E	35	6.3b,7.6s		
MOS	III	11 06 15 24.5–1.2	38.50N	144.09E	38	6.4b,7.6s		
ISCJB	III	11 06 15 24.3–.37	38.52N–.07	144.26E–.06	33	5.9b,7.6s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

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ISC	**III**	**11 06 15 37.6–.58**	**36.23N–.03**	**141.09E–.03**	**25–3**	**7.6s,6.7b**	**950**	**1-152**
NIED	III	11 06 15 00	36.10N	141.30E	35	7.8W,6.7b		**¶602707261**
BJI	III	11 06 15 32.7	36.20N	141.20E	20	7.7,7.7s		
IDC	III	11 06 15 32.3–.36	36.21N	141.17E	0	7.6,7.6s		
JMA	III	11 06 15 34.2–.10	36.12N	141.25E	43–2	7.6,7.6s		
ISCJB	III	11 06 15 37.0–.47	36.22N–.02	141.10E–.02	34–4	7.6s,6.6b		
MOS	III	11 06 15 38.8–1.7	36.27N	141.01E	47	7.0b,6.6b		
NEIC	III	11 06 15 40.3–1.1	36.28N	141.11E	43–9	7.9W,6.8b		
GCMT	III	11 06 15 45.0–.40	35.92N	141.38E	29–2	7.9W,6.8b		
NEIC	III	11 06 15 55.2–.00	35.94N	141.67E	30	7.9W,6.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ31.00000°,λ92.00000°. NP2:ϕ_s26.00000°,δ59.00000°,λ89.00000°. M_o5.66000×10^{20}
IDC Error ellipse: s-maj=11.5km s-min=9.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=155.1.
MOS Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=115.4. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.4km az=124.0. Felt [V] at Tokyo and [IV] at Misawa and Yokosuka. Also felt at Ayase, Fussa, Hamamatsu, Hamura, Nagoya-shi, Nisshin, Oizumi, Osaka, Sodegaura, Tachikawa, Tokorozawa and Yokohama. Recorded [6L JMA] in Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=75s. Moment Tensor Solution. s79,c216;Duration: 21s^2
Moment tensor: Scale 10^{20}Nm; M_{rr}4.39±.31 $M_{\theta\theta}$-0.31±.15; $M_{\phi\phi}$-4.07±.20; $M_{r\theta}$3.17±.47; $M_{\theta\phi}$-1.97±.09; $M_{\phi r}$6.34±.68; Best double couple: NP1:ϕ_s26.00000°,δ73.00000°,λ92.00000°. NP2:ϕ_s199.00000°,δ17.00000°,λ84.00000°. Principal axes: T 8.2240,Plg62.0000° ,Azm299.0000°; N 0.5160,Plg2.0000°,Azm206.0000°; P -8.7340,Plg28.0000°,Azm115.0000° M_o8.47900×10^{20}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{20}Nm; M_{rr}4.67 $M_{\theta\theta}$-1.09 $M_{\phi\phi}$-3.57 $M_{r\theta}$0.94 $M_{\theta\phi}$-1.11 $M_{\phi r}$6.44 Best double couple: NP1:ϕ_s207.00000° ,δ17.00000°,λ105.00000°. NP2:ϕ_s11.00000°,δ73.00000°,λ85.00000°. Principal axes: T 8.2000,Plg61.0000°,Azm274.0000°; N -0.7800,Plg4.0000°,Azm12.0000° ; P -7.4200,Plg28.0000°,Azm104.0000° M_o7.80000×10^{20}

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ISC	**III**	**11 06 18 51.1–.56**	**36.07N–.05**	**142.14E–.07**	**23**	**6.5b**	**107**	**1-147**
IDC	III	11 06 18 46.9–.98	35.99N	142.30E	0	6.0,5.9		**¶600538942**
ISCJB	III	11 06 18 48.8–.37	35.99N–.04	142.23E–.05	23	6.3b,5.9		
NEIC	III	11 06 18 49.5–3.4	36.02N	142.27E	16–20	6.6b,5.9		
MOS	III	11 06 18 50.1–1.2	36.03N	142.23E	33	6.7b,5.9		
JMA	III	11 06 19 03.1–.40	36.29N	141.13E	33–4	5.7,5.9		

ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=22.8km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=24.9.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.0km az=108.0.
MOS Error ellipse: s-maj=17.0km s-min=9.1km az=39.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.

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ISC	**III**	**11 06 20 02.4–.68**	**36.07N–.06**	**141.73E–.08**	**23**	**6.3b**	**62**	**1-88**
IDC	III	11 06 19 56.7–1.2	36.07N	142.24E	0	5.9,5.8		**¶602653729**
ISCJB	III	11 06 19 59.6–.41	36.03N–.04	141.90E–.05	23	6.2b,5.8		
JMA	III	11 06 20 01.9–.30	36.09N	141.77E	34	5.8,5.8		
NEIC	III	11 06 20 04.1–1.2	36.00N	142.07E	49–9	6.5b,5.8		

ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=16.1km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.4km az=135.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=5.8km az=79.0.

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ISC	**III**	**11 06 21 29.3–.40**	**38.36N–.05**	**142.88E–.05**	**23**	**6.2b**	**146**	**1-148**
IDC	III	11 06 21 25.0–.66	38.26N	142.97E	0	6.0,5.9		**¶16404868**
JMA	III	11 06 21 27.9–.40	38.28N	142.84E	6	6.2,5.9		
ISCJB	III	11 06 21 27.4–.22	38.20N–.04	142.90E–.03	23	6.1b,5.9		
NEIC	III	11 06 21 32.7–.83	38.29N	142.81E	52–8	6.2b,5.9		
MOS	III	11 06 21 32.0–.93	38.31N	142.83E	61	6.4b,5.9		

ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=15.3km az=142.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=0.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=138.0.
MOS Error ellipse: s-maj=11.7km s-min=8.5km az=81.0.

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ISC	**III**	**11 06 23 05.3–1.5**	**39.02N–.04**	**142.46E–.05**	**23–10**	**6.2b**	**399**	**1-155**
BJI	III	11 06 23 02.7	38.69N	142.36E	18	6.3b		**¶16337997**
JMA	III	11 06 23 05.8–.10	39.02N	142.41E	31–2	6.1		
ISCJB	III	11 06 23 06.7–.43	39.02N–.02	142.37E–.03	43–3	7.7s,6.1b		
MOS	III	11 06 23 08.0–.88	39.06N	142.41E	55	6.4b,6.1b		
NEIC	III	11 06 23 09.5–.50	39.03N	142.28E	56–4	6.2b,6.1b		
IDC	III	11 06 23 11.2–2.2	39.01N	142.37E	74–19	7.7s,7.7		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=137.9.
MOS Error ellipse: s-maj=7.7km s-min=5.5km az=77.9.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=140.0.
IDC Error ellipse: s-maj=13.7km s-min=10.6km az=130.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 25 50.7–.54**	**38.05N–.03**	**144.63E–.03**	**20–2**	**7.6s,7.0b**	**1885**	**3-159**
NIED	III	11 06 25 00	37.80N	144.90E	20	7.6W,7.0b		**¶16304073**
JMA	III	11 06 25 44.3–.60	37.91N	144.75E	11	7.5,7.0b		
IDC	III	11 06 25 46.6–.36	38.03N	144.75E	0	7.5s,7.5		
BJI	III	11 06 25 49.1	38.10N	144.40E	20	7.7s,7.6		
ISCJB	III	11 06 25 49.1–.06	38.08N–.01	144.64E–.01	21	7.5s,6.9b		
NEIC	III	11 06 25 50.3–1.3	38.06N	144.59E	19–8	7.7W,7.1b		
GCMT	III	11 06 25 50.0–.40	38.27N	144.63E	21–1	7.6W,7.1b		
MOS	III	11 06 25 51.0–.97	38.10N	144.63E	32	7.2b,7.1b		
NEIC	III	11 06 26 25.5–.00	39.42N	144.68E	26	7.2b,7.1b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ41.00000°,λ-92.00000°. NP2:ϕ_s194.00000°,δ49.00000°,λ-89.00000°. M_o2.46000×10^{20}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=11.1km s-min=9.6km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=161.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=129.0. Felt at Abiko, Akishima, Atsugi, Chiba, Chofu, Fussa, Kawasaki, Misawa, Mizuho, Nara, Narita, Osaka, Tokyo, Ueno, Yokosuka and Zama. Also felt at Sapporo, Hokkaido. Recorded [4 JMA] in Akita, Aomori, Fukushima, Ibaraki, Iwate, Miyagi, Saitama and Yamagata. Also recorded [4 JMA] in southeastern Hokkaido.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=60s. Moment Tensor Solution. s54,c128;Duration: 15$s^2$5
Moment tensor: Scale 10^{20}Nm; M_{rr}-3.03±.25 $M_{\theta\theta}$0.03±.12; $M_{\phi\phi}$3.00±.16; $M_{r\theta}$-0.41±.30; $M_{\theta\phi}$0.47±.06; $M_{\phi r}$-0.34±.24; Best double couple: NP1:ϕ_s15.00000°,δ49.00000°,λ-81.00000°. NP2:ϕ_s182.00000°,δ42.00000°,λ-100.00000°. Principal axes: T 3.0980,Plg4.0000° ,Azm99.0000°; N 0.0000,Plg7.0000°,Azm190.0000°; P -3.0970,Plg82.0000°,Azm340.0000° M_o3.09700×10^{20}
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=105.7. Felt (V) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{20}Nm; M_{rr}-4.04 $M_{\theta\theta}$0.45 $M_{\phi\phi}$3.59 $M_{r\theta}$2.19 $M_{\theta\phi}$0.24 $M_{\phi r}$-1.19 Best double couple: NP1:ϕ_s340.00000° ,δ57.00000°,λ-115.00000°. NP2:ϕ_s202.00000°,δ40.00000°,λ-56.00000°. Principal axes: T 3.7800,Plg9.0000°,Azm88.0000°; N 1.3200,Plg21.0000°,Azm355.0000° ; P -5.1000,Plg67.0000°,Azm200.0000° M_o4.40000×10^{20}

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ISC	**III**	**11 06 29 15.4–.35**	**37.86N–.05**	**144.21E–.05**	**35**	**6.1b**	**175**	**2-152**
IDC	III	11 06 29 09.6–.59	37.83N	144.40E	0	6.3,6.1		**¶602653717**
ISCJB	III	11 06 29 13.6–.20	37.83N–.03	144.18E–.02	33	6.0b,6.1		
MOS	III	11 06 29 13.4–1.1	37.82N	144.25E	33	6.3b,6.1		
NEIC	III	11 06 29 16.0–.69	37.81N	144.23E	41–6	6.1b,6.1		
JMA	III	11 06 29 15.1–.30	37.93N	143.93E	15	6.9,6.1		

ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=15.2km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=178.8.
MOS Error ellipse: s-maj=10.0km s-min=8.1km az=78.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=122.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 33 00.4–1.8**	**36.62N–.04**	**141.99E–.04**	**3–10**	**6.0b**	**347**	**1-152**
IDC	III	11 06 32 59.9–.51	36.65N	141.94E	0	5.7,5.6		**¶602653706**
ISCJB	III	11 06 33 00.5–.14	36.59N–.02	142.00E–.02	10	5.8b,5.6		
JMA	III	11 06 33 01.5–.20	36.61N	142.11E	43	6.1,5.6		
MOS	III	11 06 33 03.8–.90	36.82N	141.89E	28	6.3b,5.6		
NEIC	III	11 06 33 06.1–.60	36.63N	141.87E	39–5	5.9b,5.6		

ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=1.9km az=174.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=7.2km az=84.4.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=141.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 33 16.8–1.4**	**37.48N–.05**	**143.62E–.09**	**35**		**80**	**2-86**
JMA	III	11 06 33 15.7–.20	37.49N	143.53E	40	6.4		**¶16403903**
ISCJB	III	11 06 33 16.8–.60	37.55N–.03	143.44E–.05	33	5.9b		

ISC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 35 24.4–.39**	**35.97N–.05**	**141.07E–.06**	**31**	**5.7b**	**134**	**0-152**
IDC	III	11 06 35 18.9–.67	35.81N	141.17E	0	5.5,5.3		**¶602653697**
NEIC	III	11 06 35 20.9–2.3	35.81N	141.10E	10–14	5.8b,5.3		
ISCJB	III	11 06 35 22.5–.26	35.85N–.05	141.03E–.04	31	5.7b,5.3		
MOS	III	11 06 35 22.2–.99	35.79N	141.14E	33	6.1b,5.3		
JMA	III	11 06 35 24.5–.10	36.04N	141.04E	38–2	5.1,5.3		

ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=17.5km az=150.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=178.5.
MOS Error ellipse: s-maj=13.6km s-min=10.3km az=94.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 37 01.9–.53**	**37.49N–.09**	**142.53E–.10**	**21**	**5.6b**	**49**	**5-91**
IDC	III	11 06 36 58.2–.81	37.47N	142.49E	0	5.6,5.4		**¶602653695**

ISCJB	III	11 06 36 60.0–.34	37.45N–.06	142.43E–.08	21	5.5b,5.4		
NEIC	III	11 06 37 05.6–1.0	37.47N	142.40E	52–10	5.6b,5.4		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=23.7km s-min=20.7km az=106.0.							
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=8.1km az=38.1.							
NEIC	Event type se. Error ellipse: s-maj=7.1km s-min=5.9km az=103.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 06 38 08.8–.39**	**36.09N–.04**	**141.75E–.05**	**26**	**5.7b**	**127**	**1-152**
IDC	III	11 06 38 04.7–.58	36.13N	141.77E	0	5.4,5.3		**¶600538982**
ISCJB	III	11 06 38 06.8–.24	36.06N–.03	141.79E–.03	26	5.5b,5.3		
JMA	III	11 06 38 07.1–.20	36.18N	141.85E	24	5.6,5.3		
MOS	III	11 06 38 09.6–.86	36.12N	141.69E	48	6.0b,5.3		
NEIC	III	11 06 38 11.3–.79	36.09N	141.67E	47–7	5.8b,5.3		
ISC	Event type se.							
IDC	Error ellipse: s-maj=16.9km s-min=13.8km az=125.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=167.5.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
MOS	Error ellipse: s-maj=11.4km s-min=8.1km az=107.1.							
NEIC	Event type se. Error ellipse: s-maj=7.1km s-min=4.9km az=129.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 39 34.8–.35**	**37.06N–.06**	**142.51E–.07**	**9**	**5.5b**	**204**	**5-163**
IDC	III	11 06 39 32.9–.71	37.03N	142.52E	0	5.5,5.4		**¶16401041**
ISCJB	III	11 06 39 33.2–.18	37.01N–.04	142.44E–.04	9	5.4b,5.4		
MOS	III	11 06 39 38.4–.81	37.00N	142.42E	51	5.7b,5.4		
NEIC	III	11 06 39 39.3–.55	37.04N	142.46E	40–5	5.5b,5.4		
ISC	Event type se.							
IDC	Error ellipse: s-maj=19.5km s-min=16.8km az=155.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=151.0.							
MOS	Error ellipse: s-maj=9.8km s-min=7.3km az=102.5.							
NEIC	Event type se. Error ellipse: s-maj=3.8km s-min=3.0km az=136.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 06 40 49.5–.52**	**39.34N–.05**	**142.17E–.05**	**50–4**	**5.6b**	**153**	**1-151**
IDC	III	11 06 40 42.3–.81	39.29N	142.11E	0	5.5,5.4		**¶602653685**
JMA	III	11 06 40 49.7–.10	39.33N	142.07E	48–1	5.9,5.4		
MOS	III	11 06 40 53.8–1.1	40.52N	141.37E	33	5.8b,5.4		
BJI	III	11 06 40 59.0	39.90N	139.80E	34	5.7b,5.4		
NEIC	III	11 06 41 01.4–.29	39.60N	141.58E	35	5.8b,5.4		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=21.6km s-min=15.7km az=160.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
MOS	Error ellipse: s-maj=13.1km s-min=7.9km az=106.5.							
NEIC	Event type fe. Error ellipse: s-maj=17.8km s-min=6.5km az=127.0. Recorded [4 JMA] in Iwate.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 43 11.7–.42**	**38.15N–.06**	**144.67E–.06**	**35**	**5.5b**	**138**	**4-148**
IDC	III	11 06 43 06.0–.93	38.00N	144.68E	0	5.4,5.2		**¶602653681**
MOS	III	11 06 43 09.9–1.1	38.12N	144.59E	33	5.5b,5.2		
ISCJB	III	11 06 43 10.1–.21	38.10N–.04	144.55E–.04	33	5.4b,5.2		
NEIC	III	11 06 43 10.6–1.8	38.07N	144.63E	26–13	5.4b,5.2		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=27.7km s-min=20.1km az=177.0.							
MOS	Error ellipse: s-maj=10.9km s-min=7.7km az=89.5.							
ISCJB	Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=165.6.							
NEIC	Event type se. Error ellipse: s-maj=6.0km s-min=3.7km az=123.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 46 29.5–.40**	**37.97N–.07**	**143.27E–.07**	**18**	**5.7b**	**151**	**2-150**
JMA	III	11 06 46 09.3–.10	38.75N	142.23E	38–1	5.6		**¶602653675**
IDC	III	11 06 46 26.0–.60	37.95N	143.28E	0	5.4,5.3		
ISCJB	III	11 06 46 27.8–.27	37.94N–.05	143.22E–.05	18	5.6b,5.3		
MOS	III	11 06 46 29.7–.91	37.98N	143.22E	31	6.2b,5.3		
NEIC	III	11 06 46 31.2–1.7	37.96N	143.25E	31–12	5.9b,5.3		
ISC	Event type ke.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
IDC	Error ellipse: s-maj=17.3km s-min=16.0km az=116.0.							
ISCJB	Event type fe. Error ellipse: s-maj=7.5km s-min=5.2km az=150.1.							
MOS	Error ellipse: s-maj=11.2km s-min=7.3km az=94.5.							
NEIC	Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=132.0. Recorded [4 JMA] in Iwate.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 48 45.8–.24**	**37.98N–.04**	**142.74E–.03**	**14**	**6.1b**	**1036**	**1-154**
IDC	III	11 06 48 43.5–.41	37.94N	142.79E	0	6.8s,6.8		**¶16476201**
ISCJB	III	11 06 48 44.1–.10	37.96N–.02	142.77E–.02	14	6.3s,6.0b		
BJI	III	11 06 48 44.5	37.90N	142.80E	20	6.5s,6.3b		
NEIC	III	11 06 48 45.6–1.2	37.96N	142.72E	12–7	6.2b,6.3b		
MOS	III	11 06 48 47.7–.97	38.07N	142.71E	36	6.2b,6.3b		
JMA	III	11 06 49 01.7–.30	38.39N	142.27E	23	5.6,6.3b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=12.4km s-min=10.1km az=120.0.							
ISCJB	Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=160.3.							
NEIC	Event type se. Error ellipse: s-maj=3.1km s-min=1.9km az=130.0.							
MOS	Error ellipse: s-maj=5.9km s-min=4.2km az=95.3.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 49 15.2–.33**	**37.29N–.05**	**144.23E–.06**	**35**	**6.0b**	**217**	**5-149**
IDC	III	11 06 49 09.0–.52	37.30N	144.39E	0	6.5,6.5s		**¶17193684**
ISCJB	III	11 06 49 13.7–.20	37.32N–.04	144.20E–.04	35	5.9b,6.5s		
MOS	III	11 06 49 14.4–1.2	37.30N	144.19E	43	6.3b,6.5s		
NEIC	III	11 06 49 16.6–.77	37.34N	144.24E	47–7	6.1b,6.5s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=14.6km s-min=13.0km az=122.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.5km s-min=4.7km az=161.6.							
MOS	Error ellipse: s-maj=10.8km s-min=7.2km az=111.3.							
NEIC	Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=118.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 06 49 50.6–1.4**	**40.17N–.04**	**142.57E–.04**	**18–8**	**5.8b**	**87**	**1-144**
JMA	III	11 06 49 50.2–.30	40.11N	142.62E	7–4	5.9		**¶16404877**
IDC	III	11 06 49 52.1–.72	40.83N	141.43E	0	6.4L,5.7		
NEIC	III	11 06 49 57.5–1.2	40.67N	141.61E	45–11	5.8b,5.7		
ISC	Event type se.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
IDC	Error ellipse: s-maj=19.4km s-min=15.5km az=118.0.							
NEIC	Event type fe. Error ellipse: s-maj=14.4km s-min=9.2km az=130.0. Recorded [3 JMA] in Akita, Aomori, Fukushima, Iwate and Miyagi.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 06 52 26.3–.33**	**38.10N–.05**	**143.03E–.04**	**18**	**5.4b**	**173**	**1-151**
IDC	III	11 06 52 22.9–.57	38.01N	143.07E	0	5.3,5.1		**¶16404878**
ISCJB	III	11 06 52 24.6–.19	38.06N–.03	143.05E–.03	18	5.4b,5.1		
MOS	III	11 06 52 27.9–.84	38.03N	142.92E	45	5.7b,5.1		
NEIC	III	11 06 52 28.5–1.4	38.06N	143.02E	34–10	5.5b,5.1		
JMA	III	11 06 52 29.1–.40	38.40N	142.74E	0	5.9,5.1		
ISC	Event type se.							
IDC	Error ellipse: s-maj=16.0km s-min=14.5km az=112.0.							
ISCJB	Event type fe. Error ellipse: s-maj=3.9km s-min=3.5km az=7.7.							
MOS	Error ellipse: s-maj=11.0km s-min=6.8km az=90.1.							
NEIC	Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=120.0.							
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 06 54 11.6–.38**	**37.04N–.05**	**141.49E–.05**	**33**	**5.4b**	**141**	**1-152**
NEIC	III	11 06 54 08.5–2.8	36.97N	141.49E	10–17	5.4b		**¶602654502**
ISCJB	III	11 06 54 10.4–.26	36.95N–.04	141.51E–.04	33	5.3b		
MOS	III	11 06 54 11.4–.77	37.18N	141.47E	35	5.5b		
JMA	III	11 06 54 13.4–.10	37.18N	141.44E	48–2	5.2		
IDC	III	11 06 54 16.0–3.1	36.97N	141.40E	72–29	5.1,5.0		
ISC	Event type ke.							
NEIC	Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=130.0.							
ISCJB	Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=2.5.							
MOS	Error ellipse: s-maj=17.2km s-min=9.8km az=73.9.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
IDC	Error ellipse: s-maj=22.7km s-min=18.7km az=115.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 55 31.3–.40**	**37.50N–.06**	**142.89E–.06**	**24**	**5.8b**	**159**	**2-148**
IDC	III	11 06 55 27.3–.72	37.55N	142.90E	0	6.9,6.9s		**¶602654497**
ISCJB	III	11 06 55 29.8–.22	37.52N–.04	142.82E–.04	24	6.9s,5.7b		
MOS	III	11 06 55 29.8–1.0	37.65N	142.90E	22	6.0b,5.7b		
NEIC	III	11 06 55 33.6–.65	37.56N	142.86E	40–6	5.9b,5.7b		
JMA	III	11 06 55 41.3–.20	36.58N	142.03E	79–5	5.4,5.7b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=19.7km s-min=15.0km az=147.0.							
ISCJB	Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=151.4.							
MOS	Error ellipse: s-maj=8.9km s-min=8.0km az=77.7.							
NEIC	Event type se. Error ellipse: s-maj=6.4km s-min=4.2km az=132.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 06 57 14.9–.52**	**35.80N–.03**	**140.97E–.03**	**33–1**	**6.0b**	**825**	**0-162**
BJI	III	11 06 57 13.0	35.61N	140.89E	39	6.2b,5.8b		**¶602654495**
JMA	III	11 06 57 13.2–.10	35.82N	141.18E	28–1	6.2,5.8b		
ISCJB	III	11 06 57 14.2–.34	35.75N–.02	140.88E–.02	39–2	7.1s,6.0b		
MOS	III	11 06 57 15.1–1.0	35.80N	140.90E	48	6.2b,6.0b		
IDC	III	11 06 57 16.4–1.5	35.74N	141.08E	52–13	5.6,5.4		
NEIC	III	11 06 57 16.5–.52	35.71N	140.88E	48–4	6.0b,5.4		
ISC	Event type ke.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISCJB	Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=38.8.							
MOS	Error ellipse: s-maj=6.3km s-min=4.1km az=109.3.							
IDC	Error ellipse: s-maj=10.6km s-min=7.2km az=89.0.							
NEIC	Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=127.0. Recorded [4 JMA] in Chiba.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 06 58 59.4–2.1**	**37.37N–.04**	**144.76E–.04**	**30–14**	**6.2b**	**1150**	**3-158**
IDC	III	11 06 58 53.7–.40	37.23N	144.76E	0	6.7,6.7s		**¶16304934**
ISCJB	III	11 06 58 55.0–1.0	37.33N–.02	144.78E–.02	15–7	6.2b,6.7s		
BJI	III	11 06 58 58.3	37.40N	144.80E	30	6.0b,6.7s		
MOS	III	11 06 58 59.2–1.0	37.41N	144.73E	38	6.5b,6.7s		
NEIC	III	11 06 59 00.3–.66	37.36N	144.73E	36–6	6.3b,6.7s		
JMA	III	11 06 59 01.3–.30	37.53N	144.43E	50	6.8,6.7s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=11.6km s-min=11.0km az=139.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=171.1.							
MOS	Event type fe. Error ellipse: s-maj=6.2km s-min=4.2km az=110.2. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.							
NEIC	Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=132.0.							
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 07 01 11.5–.47**	**36.62N–.09**	**143.76E–.09**	**35**	**5.6b**	**82**	**5-150**
ISCJB	III	11 07 01 09.7–.33	36.64N–.07	143.74E–.08	33	5.5b		**¶16404881**
MOS	III	11 07 01 10.1–1.9	36.81N	143.96E	34	5.9b		
NEIC	III	11 07 01 11.6–.71	36.63N	143.76E	36–6	5.7b		
IDC	III	11 07 01 11.9–.90	36.71N	143.81E	38–5	5.1,5.1		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=11.7km s-min=7.1km az=45.0.							
MOS	Error ellipse: s-maj=18.6km s-min=9.0km az=83.7.							
NEIC	Event type se. Error ellipse: s-maj=10.1km s-min=6.3km az=130.0.							
IDC	Error ellipse: s-maj=25.4km s-min=19.1km az=160.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 07 03 00.1–.33**	**38.00N–.05**	**142.82E–.05**	**18**	**5.5b**	**196**	**1-164**
ISCJB	III	11 07 02 59.2–.21	38.11N–.04	142.82E–.03	18	5.5b		**¶602654475**
NEIC	III	11 07 03 00.0–2.4	37.92N	142.80E	19–14	5.6b		
JMA	III	11 07 03 01.4–.20	38.15N	142.79E	23	5.8		
IDC	III	11 07 03 01.3–.50	37.86N	142.87E	32–3	5.4,5.3		
MOS	III	11 07 03 01.6–.76	38.17N	142.77E	34	5.8b,5.3		
ISC	Event type ke.							
ISCJB	Event type fe. Error ellipse: s-maj=5.9km s-min=3.3km az=168.4.							
NEIC	Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=141.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
IDC	Error ellipse: s-maj=12.7km s-min=10.3km az=131.0.							
MOS	Error ellipse: s-maj=10.2km s-min=6.9km az=79.9.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 07 04 15.0–.58**	**38.97N–.03**	**142.49E–.04**	**17–3**	**5.7b**	**721**	**1-155**
IDC	III	11 07 04 11.8–.47	38.92N	142.48E	0	5.4,5.3		**¶16401042**
MOS	III	11 07 04 13.6–1.0	38.97N	142.44E	19	6.0b,5.3		
ISCJB	III	11 07 04 14.4–.68	38.93N–.02	142.48E–.02	22–4	5.6b,5.3		
JMA	III	11 07 04 15.7–.10	38.98N	142.43E	24–1	5.7,5.3		
NEIC	III	11 07 04 16.2–1.2	38.96N	142.40E	24–8	5.8b,5.3		
ISC	Event type se.							
IDC	Error ellipse: s-maj=13.3km s-min=11.1km az=127.0.							
MOS	Error ellipse: s-maj=7.7km s-min=5.2km az=84.6.							
ISCJB	Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=151.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
NEIC	Event type fe. Error ellipse: s-maj=4.0km s-min=2.5km az=134.0. Recorded [4 JMA] in Iwate.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 07 05 20.8–.32**	**38.45N–.04**	**143.66E–.05**	**15**	**5.7b**	**312**	**2-154**
IDC	III	11 07 05 17.8–.58	38.47N	143.82E	0	5.5,5.4		**¶16313871**
ISCJB	III	11 07 05 19.5–.15	38.42N–.03	143.57E–.03	15	5.6b,5.4		
NEIC	III	11 07 05 21.1–.61	38.44N	143.60E	15–3	5.7b,5.4		
MOS	III	11 07 05 23.0–.91	38.47N	143.54E	42	5.9b,5.4		
JMA	III	11 07 05 34.4–.10	39.02N	142.40E	27–1	5.7,5.4		
ISC	Event type se.							
IDC	Error ellipse: s-maj=16.2km s-min=14.9km az=97.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=156.7.							
NEIC	Event type se. Error ellipse: s-maj=3.6km s-min=2.6km az=144.0.							
MOS	Error ellipse: s-maj=7.6km s-min=5.5km az=105.8.							
JMA	Event type fe.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 07 06 46.1–.56**	**37.74N–.09**	**142.98E–.08**	**24**	**5.5b**	**68**	**5-151**
IDC	III	11 07 06 42.3–1.0	37.79N	143.04E	0	5.2,5.0		**¶16404882**
ISCJB	III	11 07 06 44.3–.41	37.76N–.07	142.93E–.07	24	5.3b,5.0		
NEIC	III	11 07 06 45.8–2.5	37.78N	142.98E	22–17	5.6b,5.0		
MOS	III	11 07 06 47.1–.68	38.03N	142.87E	33	5.7b,5.0		
ISC	Event type se.							
IDC	Error ellipse: s-maj=26.9km s-min=25.6km az=84.0.							
ISCJB	Event type se. Error ellipse: s-maj=9.6km s-min=8.2km az=18.7.							
NEIC	Event type se. Error ellipse: s-maj=8.7km s-min=7.2km az=125.0.							
MOS	Error ellipse: s-maj=24.6km s-min=10.9km az=109.7.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 07 09 11.1–.98**	**36.72N–.04**	**141.94E–.05**	**23–6**	**5.6b**	**283**	**1-152**
IDC	III	11 07 09 07.3–.55	36.70N	141.94E	0	5.1,5.0		**¶602654461**
JMA	III	11 07 09 10.6–.20	36.69N	141.99E	37–4	5.5,5.0		
MOS	III	11 07 09 10.9–.80	36.70N	141.83E	34	5.9b,5.0		
ISCJB	III	11 07 09 10.3–1.1	36.66N–.02	141.92E–.03	30–7	5.5b,5.0		
NEIC	III	11 07 09 12.1–1.1	36.71N	141.87E	28–8	5.7b,5.0		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=14.6km s-min=12.8km az=139.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
MOS	Error ellipse: s-maj=8.6km s-min=5.9km az=115.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=179.0.							
NEIC	Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=126.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 07 09 56.0–.45**	**36.71N–.07**	**141.89E–.06**	**19**	**5.4b**	**139**	**2-152**
IDC	III	11 07 09 52.9–.72	36.74N	141.97E	0	5.2,5.1		**¶17193686**
ISCJB	III	11 07 09 54.4–.26	36.70N–.05	141.86E–.05	19	5.4b,5.1		
JMA	III	11 07 09 54.1–.20	36.67N	142.10E	23	5.5,5.1		
MOS	III	11 07 09 55.7–1.0	36.78N	141.83E	29	5.8b,5.1		
NEIC	III	11 07 09 58.3–.19	36.72N	141.86E	35	5.6b,5.1		
ISC	Event type se.							
IDC	Error ellipse: s-maj=20.9km s-min=16.0km az=149.0.							
ISCJB	Event type fe. Error ellipse: s-maj=7.2km s-min=4.6km az=151.2.							
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.							
MOS	Error ellipse: s-maj=9.8km s-min=8.9km az=72.1.							
NEIC	Event type se. Error ellipse: s-maj=6.4km s-min=3.3km az=153.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 07 11 00.1–.37**	**37.87N–.04**	**142.72E–.04**	**37–1**	**5.8b**	**1025**	**1-161**
BJI	III	11 07 10 52.5	37.60N	142.80E	10	6.3,6.3b		**¶602707266**
IDC	III	11 07 10 54.0–.39	37.84N	142.79E	0	5.6,5.5		

JMA III 11 07 10 56.5–.20 37.82N 142.86E 27 6.2,5.5
ISCJB III 11 07 10 58.6–.48 37.85N–.03 142.75E–.02 39–4 6.5s,5.7b
MOS III 11 07 10 59.0–1.0 37.81N 142.62E 43 6.0b,5.7b
NEIC III 11 07 10 59.9–1.2 37.88N 142.68E 34–8 5.8b,5.7b
ISC Event type ke.
IDC Error ellipse: s-maj=11.1km s-min=10.0km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=161.8.
MOS Error ellipse: s-maj=6.0km s-min=4.4km az=106.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.7km az=137.0.

(229) Off east coast of Honshu

ISC III 11 07 13 45.2–.74 36.07N–.03 142.12E–.04 12–4 5.9b 623 1-161
ISCJB III 11 07 13 42.6–.11 36.06N–.02 142.30E–.02 10 5.8b **¶602653669**
IDC III 11 07 13 43.9–.35 35.99N 141.99E 0 5.4,5.4
BJI III 11 07 13 44.5 35.80N 142.04E 20 6.2b,6.0
JMA III 11 07 13 45.7–.20 35.95N 141.98E 50 5.8,6.0
MOS III 11 07 13 46.0–1.3 36.02N 142.24E 33 6.0b,6.0
NEIC III 11 07 13 47.6–.13 36.10N 142.36E 35 5.9b,6.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=164.4.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=111.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=138.0.

(229) Off east coast of Honshu

ISC III 11 07 13 58.5–.93 39.2N–.10 143.2E–.10 16 5.1b 48 13-83
IDC III 11 07 13 53.3–3.3 38.93N 143.13E 0 5.2,5.1 **¶17193692**
ISCJB III 11 07 13 56.1–.72 39.2N–.10 143.0E–.10 16 5.8b,5.1
ISC Event type ke.
ISCJB Event type ke.

(228) Near east coast of eastern Honshu

ISC III 11 07 14 58.6–.45 36.58N–.03 141.89E–.03 25–2 6.3b 1424 1-161
NIED III 11 07 14 00 36.60N 142.10E 23 6.5W **¶16318209**
IDC III 11 07 14 54.0–.34 36.51N 141.92E 0 7.0,6.9s
BJI III 11 07 14 55.0 36.53N 141.84E 19 6.3s,6.2
ISCJB III 11 07 14 57.2–.78 36.55N–.02 141.88E–.02 26–5 6.7s,6.3b
JMA III 11 07 14 57.0–.20 36.56N 142.04E 25 6.8,6.3b
NEIC III 11 07 14 58.8–1.1 36.59N 141.82E 25–7 6.3b,6.3b
MOS III 11 07 15 00.3–1.1 36.65N 141.79E 48 6.6b,6.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ21.00000°,λ113.00000°. NP2:ϕ_s15.00000°,δ71.00000°,λ81.00000°. $M_0$6.16000×10^{18}
IDC Error ellipse: s-maj=10.4km s-min=8.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=125.0. Recorded [4 JMA] in Fukushima and Tochigi.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=112.6.

(229) Off east coast of Honshu

ISC III 11 07 17 43.1–.29 37.02N–.04 142.46E–.04 9 5.8b 269 1-151
ISCJB III 11 07 17 41.6–.15 36.99N–.02 142.42E–.02 9 5.7b **¶602653663**
IDC III 11 07 17 41.1–.55 36.97N 142.56E 0 5.6,5.5
NEIC III 11 07 17 42.8–.72 37.01N 142.41E 6–4 5.8b,5.5
JMA III 11 07 17 42.7–.20 37.14N 142.59E 20 6.5,5.5
MOS III 11 07 17 43.2–1.0 37.05N 142.38E 21 6.0b,5.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=153.7.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=129.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=6.0km az=80.8.

(229) Off east coast of Honshu

ISC III 11 07 23 17.6–.35 37.47N–.06 142.09E–.07 24 5.8b 214 3-155
IDC III 11 07 23 12.6–.61 37.28N 142.17E 0 5.1,5.0 **¶600539035**
ISCJB III 11 07 23 15.9–.22 37.46N–.04 142.01E–.04 24 7.4s,5.6b
NEIC III 11 07 23 16.9–2.6 37.45N 142.10E 20–16 5.9b,5.6b
MOS III 11 07 23 17.2–1.3 37.30N 142.01E 39 6.1b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=13.1km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=159.4.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=123.0.
MOS Error ellipse: s-maj=10.1km s-min=7.0km az=94.9.

(229) Off east coast of Honshu

ISC III 11 07 25 35.0–.47 38.01N–.03 144.60E–.03 28–3 6.0b 1533 3-158
IDC III 11 07 25 30.4–.30 37.94N 144.67E 0 5.7,5.6 **¶17193702**
MOS III 11 07 25 32.6–.94 37.95N 144.59E 22 6.2b,5.6
ISCJB III 11 07 25 33.9–.76 38.00N–.02 144.58E–.02 29–5 6.5s,6.0b
BJI III 11 07 25 34.1 37.90N 144.30E 20 6.6b,6.5
NEIC III 11 07 25 36.5–.45 37.93N 144.53E 40–4 6.1b,6.5
JMA III 11 07 25 36.1–.20 38.06N 144.50E 40 6.2,6.5
ISC Event type se.
IDC Error ellipse: s-maj=9.5km s-min=8.3km az=101.0.
MOS Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=100.7. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=166.9.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 07 25 53.2–.51 37.91N–.08 144.8E–.10 35 5.6b 40 18-129
IDC III 11 07 25 47.9–.49 37.90N 144.76E 0 5.7,5.7 **¶603049316**
ISCJB III 11 07 25 51.2–.45 37.90N–.07 144.8E–.10 33 5.6b,5.7
ISC Event type ke.
ISCJB Event type ke.

(228) Near east coast of eastern Honshu

ISC III 11 07 28 11.7–.99 36.86N–.03 141.89E–.03 25–6 6.1b 1134 1-161
IDC III 11 07 28 07.8–.35 36.87N 141.97E 0 5.8,5.7 **¶602707272**
BJI III 11 07 28 08.9 36.70N 141.90E 20 6.4s,6.3
ISCJB III 11 07 28 10.2–.69 36.81N–.02 141.84E–.02 24–4 6.6s,6.0b
JMA III 11 07 28 11.3–.30 36.89N 141.87E 44–4 6.2,6.0b
MOS III 11 07 28 11.6–.89 36.90N 141.85E 33 6.2b,6.0b
NEIC III 11 07 28 12.4–1.1 36.82N 141.82E 28–7 6.1b,6.0b
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=8.9km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.6km az=162.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=102.4. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=130.0.

(228) Near east coast of eastern Honshu

ISC III 11 07 29 00.3–.60 39.00N–.03 142.45E–.04 34–2 6.3b 1055 1-159
IDC III 11 07 28 53.4–.41 38.75N 142.53E 0 6.7s,6.7 **¶16407474**
MOS III 11 07 28 58.8–1.3 39.00N 142.42E 33 6.5b,6.7
ISCJB III 11 07 28 59.2–.44 39.00N–.02 142.45E–.02 39–3 6.5s,6.2b
JMA III 11 07 28 59.8–.20 39.02N 142.31E 17–3 6.6,6.2b
NEIC III 11 07 29 01.8–.72 39.03N 142.35E 45–6 6.3b,6.2b
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=139.0.
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=92.2.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=41.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=127.0. Recorded [5U JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC III 11 07 30 15.3–.78 37.36N–.04 141.28E–.06 27–4 5.9b 83 0-152
MOS III 11 07 30 12.7–1.3 36.87N 141.14E 33 6.1b **¶16407475**
IDC III 11 07 30 14.5–2.2 37.14N 141.15E 28–6 5.8,5.8
ISCJB III 11 07 30 15.0–.78 37.34N–.03 141.30E–.07 38–5 5.8b,5.8
JMA III 11 07 30 15.6 37.36N 141.26E 27–1 5.9,5.8
NEIC III 11 07 30 18.4–.73 37.44N 141.20E 49–6 6.0b,5.8
ISC Event type se.
MOS Error ellipse: s-maj=16.3km s-min=9.5km az=95.5.
IDC Error ellipse: s-maj=64.3km s-min=27.8km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=4.8km az=20.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.7km az=106.0.

(229) Off east coast of Honshu

ISC III 11 07 33 33.8–.50 36.26N–.06 142.72E–.08 35 5.5b 62 2-151
IDC III 11 07 33 28.6–1.0 36.36N 142.75E 0 5.2,5.1 **¶16407476**
JMA III 11 07 33 30.9–.30 36.29N 142.14E 19 5.2,5.1
MOS III 11 07 33 30.7–.80 36.15N 142.42E 21 5.9b,5.1
ISCJB III 11 07 33 32.4–.38 36.26N–.05 142.62E–.07 35 5.4b,5.1
NEIC III 11 07 33 33.7–.38 36.32N 142.71E 35 5.7b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=22.4km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=15.8km s-min=10.2km az=96.9.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=20.4.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=130.0.

(229) Off east coast of Honshu

ISC III 11 07 34 54.1–.49 37.92N–.05 142.73E–.06 21–4 5.3b 91 1-154
JMA III 11 07 34 51.7–.20 37.98N 142.75E 13–3 5.7 **¶16339080**
ISCJB III 11 07 34 52.6–1.6 37.91N–.04 142.78E–.05 22–11 5.3b
BJI III 11 07 34 52.1 37.70N 143.23E 26 5.8b
IDC III 11 07 34 55.4–.66 37.86N 142.88E 30–4 5.3,5.3
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.5km az=148.7.
IDC Error ellipse: s-maj=14.0km s-min=11.7km az=143.0.

(229) Off east coast of Honshu

ISC III 11 07 35 50.4–.34 37.00N–.05 142.26E–.04 9 5.7b 254 1-151
IDC III 11 07 35 47.6–.58 36.75N 142.44E 0 5.4,5.3 **¶16476229**
ISCJB III 11 07 35 48.7–.16 36.94N–.03 142.34E–.02 9 5.6b,5.3
JMA III 11 07 35 49.4–.30 37.06N 142.49E 28 6.0,5.3
NEIC III 11 07 35 52.2–1.4 36.94N 142.31E 22–9 5.7b,5.3
MOS III 11 07 35 52.2–.87 36.97N 142.26E 33 5.8b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.2km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=169.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=2.7km az=131.0.
MOS Error ellipse: s-maj=11.3km s-min=7.0km az=63.1.

(229) Off east coast of Honshu

ISC III 11 07 38 24.9–.33 39.27N–.03 142.94E–.03 20–2 5.8b 1132 1-154
BJI III 11 07 38 22.6 39.13N 143.03E 29 6.3s,6.1 **¶602653622**
ISCJB III 11 07 38 24.7–.92 39.12N–.02 142.91E–.02 30–6 6.7s,5.7b
MOS III 11 07 38 25.2–.92 39.27N 142.80E 30 5.9b,5.7b
IDC III 11 07 38 26.3–.60 39.20N 142.90E 31–4 5.3,5.3
JMA III 11 07 38 26.5–.20 39.25N 142.81E 16–2 5.8,5.3
NEIC III 11 07 38 27.6–.41 39.20N 142.79E 38–3 5.8b,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=174.4.
MOS Error ellipse: s-maj=5.7km s-min=3.9km az=93.6.
IDC Error ellipse: s-maj=11.8km s-min=9.8km az=127.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=136.0. Recorded [4 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC III 11 07 40 54.0–.55 38.37N–.05 142.20E–.06 20–4 5.2b 136 1-151
ISCJB III 11 07 40 52.8–1.1 38.33N–.03 142.24E–.04 24–7 5.1b **¶602653620**
JMA III 11 07 40 53.8–.10 38.45N 142.29E 28–2 5.3
NEIC III 11 07 40 53.4–2.1 38.35N 142.19E 16–13 5.3b
MOS III 11 07 40 54.0–.80 38.36N 142.12E 33 5.5b
IDC III 11 07 40 55.3–.85 38.36N 142.22E 30–5 4.8,4.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.8km az=39.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=121.0.
MOS Error ellipse: s-maj=14.1km s-min=8.4km az=87.7.
IDC Error ellipse: s-maj=18.7km s-min=15.3km az=80.0.

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ISC III 11 07 42 53.6–.63 36.37N–.04 141.96E–.05 23–4 5.6b 708 1-154
IDC III 11 07 42 50.4–.47 36.47N 142.06E 0 5.1,5.1 **¶16304938**
BJI III 11 07 42 50.8 36.36N 141.76E 11 6.2b,6.0s
ISCJB III 11 07 42 52.8–.12 36.37N–.03 141.94E–.02 27 5.4b,6.0s
MOS III 11 07 42 54.3–1.0 36.48N 142.03E 33 5.9b,6.0s
NEIC III 11 07 42 55.6–.15 36.40N 141.89E 35 5.7b,6.0s
JMA III 11 07 42 55.5–.10 36.08N 141.23E 37–2 5.4,6.0s
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=12.4km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=173.9.
MOS Error ellipse: s-maj=8.9km s-min=4.7km az=108.4.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 07 44 29.6–.43 36.21N–.03 141.86E–.04 25–3 5.7b 410 1-161
ISCJB III 11 07 44 25.1–1.3 36.17N–.02 141.87E–.02 6–8 5.6b **¶17193712**
NEIC III 11 07 44 28.0–1.6 36.20N 141.81E 14–10 5.8b
MOS III 11 07 44 29.7–.88 36.22N 141.78E 39 6.0b
IDC III 11 07 44 29.9–.45 36.22N 141.84E 26–2 5.3,5.2
JMA III 11 07 44 29.0–.20 36.30N 141.90E 60 5.6,5.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=172.6.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.3km az=124.0.
MOS Error ellipse: s-maj=7.6km s-min=5.7km az=100.4.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 07 49 48.7–.49 36.53N–.04 141.81E–.05 29–3 5.4b 304 1-151
JMA III 11 07 49 45.5–.20 36.56N 141.97E 34–5 5.5 **¶602653604**
ISCJB III 11 07 49 46.0–.83 36.55N–.02 141.83E–.03 21–5 5.4b
NEIC III 11 07 49 48.5–1.8 36.53N 141.76E 27–12 5.4b
IDC III 11 07 49 48.9–.50 36.51N 141.76E 31–3 4.9,4.8
MOS III 11 07 49 49.0–1.1 36.55N 141.71E 42 5.7b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.8km az=30.6.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=100.0.
IDC Error ellipse: s-maj=12.0km s-min=11.5km az=104.0.
MOS Error ellipse: s-maj=9.5km s-min=5.9km az=122.6.

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ISC III 11 07 54 44.3–.36 37.73N–.04 141.71E–.04 45–3 5.6b 1067 1-160
BJI III 11 07 54 39.0 37.45N 141.85E 36 5.9s,5.7 **¶17193717**
JMA III 11 07 54 43.3–.10 37.67N 141.68E 35–3 5.5,5.7
ISCJB III 11 07 54 43.9–.35 37.73N–.02 141.58E–.02 52–3 6.5s,5.5b
MOS III 11 07 54 43.3–.87 37.90N 141.62E 41 5.8b,5.5b
IDC III 11 07 54 44.4–.50 37.73N 141.68E 47–4 5.2,5.1
NEIC III 11 07 54 45.4–.31 37.74N 141.57E 51–2 5.7b,5.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=154.4.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=97.0.
IDC Error ellipse: s-maj=10.2km s-min=9.5km az=142.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=143.0. Recorded [3 JMA] in Aomori, Fukushima, Iwate and Miyagi.

(229) Off east coast of Honshu

ISC III 11 07 56 13.2–.46 37.08N–.03 142.34E–.04 22–3 5.6b 421 1-150
JMA III 11 07 56 09.2–.30 37.05N 142.57E 11–5 6.2 **¶16304940**
BJI III 11 07 56 12.3 36.93N 142.15E 25 5.8s,5.7
ISCJB III 11 07 56 12.2–.98 37.09N–.02 142.31E–.03 25–6 6.0s,5.6b
MOS III 11 07 56 13.1–1.4 37.12N 142.22E 32 5.9b,5.6b
IDC III 11 07 56 14.0–3.5 37.08N 142.20E 33–26 5.3,5.3
NEIC III 11 07 56 15.4–.62 37.11N 142.23E 38–5 5.6b,5.3
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=37.5.
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=110.4.
IDC Error ellipse: s-maj=12.9km s-min=10.4km az=89.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.2km az=122.0.

(229) Off east coast of Honshu

ISC	**III**	**11 07 59 53.9–.42**	**37.04N–.07**	**142.75E–.08**	**35**	**5.4b**	**130**	**2-154**
NEIC	III	11 07 59 49.0–2.5	37.01N	142.78E	1–16	5.7b		¶602653587
MOS	III	11 07 59 50.2–1.1	37.00N	142.70E	23	5.7b		
ISCJB	III	11 07 59 52.2–.25	36.97N–.05	142.64E–.05	35	5.4b		
IDC	III	11 07 59 53.8–.60	37.04N	142.87E	34–4	4.8,4.8		
JMA	III	11 08 00 03.6–.30	35.77N	141.04E	34–1	4.4,4.8		

ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=123.0.
MOS Error ellipse: s-maj=13.4km s-min=8.9km az=82.8.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.0km az=155.4.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 08 01 55.5–.63**	**36.73N–.04**	**142.52E–.04**	**14–3**	**5.8b**	**977**	**1-154**
IDC	III	11 08 01 50.5–.42	36.20N	142.83E	0	5.2,5.1		¶16304085
BJI	III	11 08 01 52.6	36.39N	142.68E	28	5.8s,5.6		
ISCJB	III	11 08 01 54.7–.13	36.93N–.03	142.67E–.02	15	5.7b,5.6		
MOS	III	11 08 01 57.5–1.3	36.97N	142.92E	29	5.9b,5.6		
JMA	III	11 08 01 57.0–.20	36.35N	141.95E	17–3	5.5,5.6		
NEIC	III	11 08 01 57.0–1.8	36.94N	142.70E	19–10	5.9b,5.6		

ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=174.1.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=98.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.1km az=148.0.

(229) Off east coast of Honshu

ISC	**III**	**11 08 04 54.4–.60**	**37.50N–.03**	**142.18E–.03**	**17–3**	**5.8b**	**519**	**1-151**
IDC	III	11 08 04 49.8–.45	37.25N	142.32E	0	5.2,5.2		¶600539077
ISCJB	III	11 08 04 52.9–.71	37.46N–.02	142.23E–.02	19–4	5.6b,5.2		
JMA	III	11 08 04 53.5–.30	37.26N	142.11E	19–3	5.9,5.2		
MOS	III	11 08 04 54.5–.80	37.53N	142.19E	29	6.0b,5.2		
NEIC	III	11 08 04 58.8–.47	37.59N	142.21E	49–4	5.7b,5.2		

ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=151.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.8km az=102.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 10 30.8–.31**	**36.08N–.04**	**141.54E–.04**	**26**	**5.5b**	**619**	**1-152**
IDC	III	11 08 10 26.9–.41	36.05N	141.76E	0	5.2,5.1		¶17193722
BJI	III	11 08 10 28.6	36.24N	140.45E	15	5.9s,5.8		
JMA	III	11 08 10 28.5–.20	36.06N	141.71E	18–3	5.4,5.8		
NEIC	III	11 08 10 29.3–2.2	36.29N	140.85E	20–14	5.6b,5.8		
ISCJB	III	11 08 10 29.5–.12	36.00N–.03	141.60E–.03	26	5.9s,5.4b		
MOS	III	11 08 10 30.6–.83	36.04N	141.58E	33	5.7b,5.4b		

ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.3km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=3.1km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=145.3.
MOS Error ellipse: s-maj=12.0km s-min=7.3km az=75.2.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 12 06.7–.46**	**36.61N–.03**	**141.59E–.03**	**35–1**	**6.2b**	**1950**	**1-161**
BJI	III	11 08 12 01.5	36.60N	141.60E	10	6.6b,6.6s		¶17193724
ISCJB	III	11 08 12 04.3–.76	36.58N–.01	141.56E–.02	28–5	6.6s,6.2b		
JMA	III	11 08 12 06.4–.20	36.55N	141.39E	32–4	6.6,6.2b		
MOS	III	11 08 12 06.2–.92	36.71N	141.53E	40	6.4b,6.2b		
NEIC	III	11 08 12 07.3–.38	36.57N	141.49E	40–3	6.2b,6.2b		
IDC	III	11 08 12 07.2–1.9	36.60N	141.57E	39–16	5.8,5.6		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=162.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.3km s-min=3.5km az=110.9.
NEIC Event type fe. Error ellipse: s-maj=2.3km s-min=1.8km az=141.0. Recorded [4 JMA] in Fukushima and Tochigi.
IDC Error ellipse: s-maj=9.7km s-min=7.9km az=95.0.

(229) Off east coast of Honshu

ISC	**III**	**11 08 15 39.5–.76**	**37.09N–.04**	**144.63E–.04**	**25–5**	**6.1b**	**959**	**3-159**
IDC	III	11 08 15 35.0–.45	36.97N	144.69E	0	5.8,5.7		¶602653457
ISCJB	III	11 08 15 37.7–.93	37.04N–.03	144.63E–.02	23–6	6.6s,6.0b		
BJI	III	11 08 15 39.0	36.90N	144.60E	30	6.6b,6.4s		
MOS	III	11 08 15 39.6–.85	37.18N	144.55E	31	6.3b,6.4s		
NEIC	III	11 08 15 41.9–.47	37.05N	144.54E	41–4	6.1b,6.4s		
JMA	III	11 08 15 43.1–.30	37.26N	144.26E	32	6.5,6.4s		

ISC Event type ke.
IDC Error ellipse: s-maj=12.8km s-min=10.7km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=169.9.
MOS Error ellipse: s-maj=6.4km s-min=4.6km az=102.9.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=149.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 19 16.8–.48**	**36.12N–.04**	**141.68E–.04**	**22–3**	**5.4b**	**505**	**1-152**
IDC	III	11 08 19 12.8–.39	36.11N	141.81E	0	5.3,5.3		¶16476247
ISCJB	III	11 08 19 13.6–1.2	36.08N–.02	141.76E–.03	12–7	6.9s,5.4b		
NEIC	III	11 08 19 14.5–.57	36.12N	141.70E	8–3	5.4b,5.4b		
JMA	III	11 08 19 17.2–.20	36.16N	141.72E	36–4	6.8,5.4b		
MOS	III	11 08 19 17.1–.97	36.15N	141.71E	37	5.7b,5.4b		

ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=9.3km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=143.3.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 19 27.5–.21**	**36.19N–.03**	**141.66E–.04**	**26**	**7.1s,6.5b**	**1565**	**3-161**
BJI	III	11 08 19 20.1	35.90N	142.00E	20	6.9s,6.8		¶602707274
IDC	III	11 08 19 23.3–.31	36.16N	141.80E	0	6.9,6.9s		
NEIC	III	11 08 19 24.4–1.7	36.17N	141.56E	7–10	6.5b,6.9s		
ISCJB	III	11 08 19 25.9–.07	36.13N–.02	141.68E–.02	26	7.0s,6.4b		
MOS	III	11 08 19 26.0–1.0	36.15N	141.66E	26	7.1s,6.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=10.1km s-min=8.2km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=129.0. Felt at Yokosuka. Recorded [4 JMA] in Chiba, Fukushima, Ibaraki, Saitama and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=158.5.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=109.3.

(229) Off east coast of Honshu

ISC	**III**	**11 08 26 37.8–.27**	**37.38N–.04**	**143.01E–.05**	**24**	**6.0b**	**926**	**4-156**
BJI	III	11 08 26 30.0	36.71N	143.46E	15	5.7b		¶17193728
IDC	III	11 08 26 33.8–.36	37.34N	143.09E	0	5.4,5.4		
NEIC	III	11 08 26 36.9–1.4	37.37N	143.02E	17–8	6.1b,5.4		
ISCJB	III	11 08 26 36.4–.12	37.37N–.03	143.00E–.02	24	5.9b,5.4		
MOS	III	11 08 26 37.7–.91	37.38N	142.99E	33	6.2b,5.4		

ISC Event type se.
IDC Error ellipse: s-maj=11.1km s-min=9.7km az=102.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.2km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.5km az=161.1.
MOS Error ellipse: s-maj=6.8km s-min=5.2km az=89.9.

(229) Off east coast of Honshu

ISC	**III**	**11 08 27 48.9–.67**	**38.02N–.04**	**142.74E–.04**	**23–4**	**6.0b**	**870**	**1-161**
IDC	III	11 08 27 44.4–.34	37.91N	142.84E	0	6.4s,6.4		¶602653450
ISCJB	III	11 08 27 47.3–1.0	37.98N–.02	142.72E–.02	21–7	6.8s,6.0b		
JMA	III	11 08 27 48.3–.30	38.03N	142.79E	30	6.2,6.0b		
MOS	III	11 08 27 48.7–.98	38.04N	142.70E	34	6.2b,6.0b		
NEIC	III	11 08 27 51.6–.65	38.02N	142.66E	43–5	6.0b,6.0b		

ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=143.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=78.1.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=130.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 31 07.7–.60**	**37.45N–.03**	**141.31E–.04**	**29–4**	**6.0b**	**1128**	**0-155**
IDC	III	11 08 31 03.2–.36	37.48N	141.31E	0	5.6,5.6		¶16304942
BJI	III	11 08 31 05.8	37.40N	141.10E	20	6.4s,6.2		
MOS	III	11 08 31 05.9–.98	37.54N	141.21E	26	6.2b,6.2		
JMA	III	11 08 31 07.8–.10	37.47N	141.38E	31–1	5.9,6.2		
ISCJB	III	11 08 31 08.0–.35	37.46N–.02	141.17E–.02	41–3	6.4s,5.9b		
NEIC	III	11 08 31 09.3–.46	37.47N	141.18E	37–4	6.0b,5.9b		

ISC Event type se.
IDC Error ellipse: s-maj=11.1km s-min=8.8km az=94.0.
MOS Error ellipse: s-maj=6.0km s-min=3.8km az=104.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=160.6.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=134.0. Recorded [4 JMA] in Fukushima, Miyagi, Tochigi and Yamagata.

(229) Off east coast of Honshu

ISC	**III**	**11 08 32 57.2–1.5**	**39.14N–.04**	**143.02E–.04**	**4–9**	**6.0b**	**341**	**1-159**
IDC	III	11 08 32 56.2–.47	39.10N	143.14E	0	5.5,5.4		¶16403906
ISCJB	III	11 08 32 58.3–1.0	39.15N–.03	143.03E–.03	20–7	5.8b,5.4		
MOS	III	11 08 32 59.4–.91	39.19N	142.98E	30	6.2b,5.4		
JMA	III	11 08 32 59.4–.20	39.20N	142.96E	12–3	6.0,5.4		
NEIC	III	11 08 33 00.8–1.3	39.14N	142.97E	28–9	6.0b,5.4		

ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=11.3km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=175.0.
MOS Error ellipse: s-maj=7.3km s-min=5.4km az=83.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=144.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 35 21.2–.71**	**36.02N–.05**	**141.06E–.06**	**16–4**	**5.5b**	**341**	**0-155**
ISCJB	III	11 08 35 17.9–1.4	35.95N–.03	140.99E–.04	5–8	5.5b		¶16409229
IDC	III	11 08 35 18.5–.44	36.01N	141.08E	0	5.4,5.3b		
MOS	III	11 08 35 20.5–.91	36.03N	140.97E	21	5.7b,5.3b		
JMA	III	11 08 35 22.2–.10	36.07N	141.13E	37–2	5.2,5.3b		
NEIC	III	11 08 35 22.1–1.5	36.03N	140.98E	20–9	5.6b,5.3b		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.9km az=142.8.
IDC Error ellipse: s-maj=13.3km s-min=12.3km az=66.0.
MOS Error ellipse: s-maj=8.5km s-min=5.9km az=80.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=134.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.

(229) Off east coast of Honshu

ISC	**III**	**11 08 38 01.4–3.4**	**37.72N–.04**	**143.77E–.05**	**10–21**	**5.3b**	**269**	**2-153**
IDC	III	11 08 37 59.5–.43	37.67N	143.93E	0	5.1,5.0		¶16409230
ISCJB	III	11 08 38 00.0–.16	37.73N–.03	143.72E–.02	10	5.2b,5.0		
NEIC	III	11 08 38 01.5–1.7	37.70N	143.83E	9–10	5.4b,5.0		
JMA	III	11 08 38 03.1–.40	37.80N	143.63E	30	5.9,5.0		
MOS	III	11 08 38 03.1–1.1	37.72N	143.78E	33	5.5b,5.0		

ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.0km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=163.8.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=131.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=6.2km az=98.8.

(229) Off east coast of Honshu

ISC	**III**	**11 08 39 10.2–.40**	**37.58N–.06**	**142.86E–.07**	**24**	**5.4b**	**137**	**5-151**
IDC	III	11 08 39 06.1–.68	37.67N	142.94E	0	6.5,6.5s		¶16409231
ISCJB	III	11 08 39 08.6–.24	37.61N–.04	142.78E–.04	24	6.4s,5.3b		
MOS	III	11 08 39 09.9–.92	37.67N	142.81E	35	5.8b,5.3b		
NEIC	III	11 08 39 13.0–.77	37.64N	142.77E	46–7	5.5b,5.3b		

ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.4km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.9km az=173.9.
MOS Error ellipse: s-maj=12.2km s-min=7.7km az=114.8.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.0km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 40 54.8–.52**	**37.39N–.03**	**141.16E–.04**	**32–3**	**5.9b**	**1172**	**0-157**
IDC	III	11 08 40 49.8–.32	37.44N	141.11E	0	6.3,6.3s		¶600539099
BJI	III	11 08 40 52.8	37.37N	141.00E	25	6.2b,6.0		
MOS	III	11 08 40 53.4–.86	37.48N	141.04E	30	6.1b,6.0		
ISCJB	III	11 08 40 54.7–.30	37.42N–.02	141.06E–.02	42–2	6.3s,5.8b		
JMA	III	11 08 40 54.5–.10	37.42N	141.27E	30–1	6.0,5.8b		
NEIC	III	11 08 40 56.1–.46	37.45N	140.98E	40–4	5.9b,5.8b		

ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=8.6km az=99.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=98.7.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=149.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=128.0. Recorded [5U JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 43 57.6–.35**	**36.10N–.05**	**141.20E–.05**	**26**	**5.5b**	**209**	**0-150**
IDC	III	11 08 43 49.5–.44	36.55N	141.59E	0	5.0,4.9		¶602653443
JMA	III	11 08 43 53.3–.30	36.27N	142.09E	0	6.0,4.9		
ISCJB	III	11 08 43 53.7–.18	36.03N–.04	141.05E–.04	10	5.4b,4.9		
MOS	III	11 08 43 58.4–1.8	36.06N	140.83E	47	5.8b,4.9		
NEIC	III	11 08 44 00.1–1.3	36.12N	140.97E	47–11	5.6b,4.9		

ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=10.8km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=148.1.
MOS Error ellipse: s-maj=9.6km s-min=7.9km az=127.6.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.1km az=121.0.

(229) Off east coast of Honshu

ISC	**III**	**11 08 46 44.9–.97**	**37.39N–.03**	**142.53E–.04**	**23–6**	**5.6b**	**900**	**1-154**
IDC	III	11 08 46 41.3–.39	37.37N	142.50E	0	5.5,5.4		¶602653441
BJI	III	11 08 46 43.9	37.35N	142.44E	34	5.9b,5.9s		
ISCJB	III	11 08 46 44.3–.83	37.38N–.02	142.49E–.02	28–5	5.9s,5.5b		
JMA	III	11 08 46 44.1–.20	37.45N	142.39E	15	5.9,5.5b		
MOS	III	11 08 46 45.1–.96	37.44N	142.40E	32	5.9b,5.5b		
NEIC	III	11 08 46 45.9–.99	37.42N	142.45E	26–7	5.6b,5.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=167.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.0km az=116.1.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=123.0. Recorded [3 JMA] in Ibaraki, Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**11 08 48 22.6–2.0**	**36.62N–.06**	**142.01E–.05**	**16–12**	**5.2b**	**95**	**1-152**
IDC	III	11 08 48 19.3–.77	36.43N	142.18E	0	6.3,6.3s		¶16409232
ISCJB	III	11 08 48 21.2–.24	36.67N–.03	142.05E–.03	10	5.1b,6.3s		
JMA	III	11 08 48 22.5–.20	36.73N	142.11E	28	5.3,6.3s		
NEIC	III	11 08 48 26.6–.82	36.51N	141.91E	48–8	5.2b,6.3s		

ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=17.7km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.4km az=130.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 08 52 25.7–.35**	**36.75N–.04**	**141.97E–.05**	**36–2**	**5.4b**	**956**	**1-154**
IDC	III	11 08 52 20.0–.40	36.73N	142.04E	0	5.1,5.1		¶16409257
JMA	III	11 08 52 20.6–.30	36.77N	141.95E	0–3	5.6,5.1		
ISCJB	III	11 08 52 21.7–.74	36.74N–.02	141.98E–.02	17–5	5.6s,5.3b		

BJI III 11 08 52 22.1 36.68N 141.80E 23 5.7s,5.6b
NEIC III 11 08 52 23.4–1.6 36.77N 141.92E 17–10 5.5b,5.6b
MOS III 11 08 52 24.9–.97 36.93N 141.89E 33 5.6b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=10.6km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=172.5.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=138.0.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=109.2.

(228) Near east coast of eastern Honshu

ISC III 11 08 55 06.2–.54 36.60N–.08 141.61E–.09 26 4.9b 48 4-152
IDC III 11 08 55 01.2–.98 36.52N 141.65E 0 6.1s,6.1 **¶602653428**
ISCJB III 11 08 55 04.2–.43 36.61N–.06 141.60E–.08 26 5.8s,4.8b
NEIC III 11 08 55 07.5–.82 36.61N 141.60E 36–7 5.0b,4.8b
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=24.8km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.8km az=37.5.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=118.0.

(613) Hawaiian Islands

ISC III 11 08 58 25.3–1.7 19.54N–.08 155.1W–.10 14 5.0b 21 0-104
BJI III 11 08 58 24.0 19.30N 155.00W 15 5.6b **¶16304096**
NEIC III 11 08 58 25.7 19.34N 154.99W 9 4.6L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hakalau, Mountain View, Pa'auilo, Papa'ikou and Pepeekeo; [III] at Captain Cook, Hawaii National Park, Hilo, Kea'au, Kurtistown, 'O'okala, Pahoa and Volcano; [II] at Honoka'a, Honomu, Kailua Kona, Ninole, Waikoloa and Waimea. Felt throughout the Island of Hawai'i and in parts of Maui, Moloka'i and O'ahu. After HVO.

(229) Off east coast of Honshu

ISC III 11 09 00 14.4–.34 37.31N–.04 142.52E–.04 21 4.9b 305 1-154
JMA III 11 09 00 10.3–.30 37.36N 142.45E 0 4.9 **¶602653418**
IDC III 11 09 00 11.0–.51 37.31N 142.53E 0 5.8,5.8s
MOS III 11 09 00 12.4–.83 37.28N 142.48E 23 5.3b,5.8s
ISCJB III 11 09 00 12.5–.21 37.27N–.03 142.51E–.03 21 5.4s,4.8b
NEIC III 11 09 00 14.5–1.2 37.28N 142.50E 23–8 5.1b,4.8b
BJI III 11 09 00 14.1 37.02N 142.16E 22 5.2b,5.2s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.9km az=142.0.
MOS Error ellipse: s-maj=8.6km s-min=6.7km az=112.6.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=160.9.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=139.0.

(229) Off east coast of Honshu

ISC III 11 09 04 09.3–.29 37.46N–.04 142.68E–.05 21 5.4b 511 1-160
IDC III 11 09 04 05.6–.35 37.40N 142.75E 0 5.1,5.1 **¶602653396**
BJI III 11 09 04 06.8 37.49N 142.58E 18 5.7s,5.6
NEIC III 11 09 04 06.9–1.8 37.38N 142.72E 9–10 5.4b,5.6
ISCJB III 11 09 04 07.5–.14 37.39N–.03 142.68E–.03 21 5.8s,5.3b
MOS III 11 09 04 08.6–1.2 37.47N 142.63E 29 5.7b,5.3b
JMA III 11 09 04 13.5 36.55N 140.96E 17–1 5.3,5.3b
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=140.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=158.1.
MOS Error ellipse: s-maj=7.4km s-min=4.4km az=107.1.
JMA Event type fe.

(229) Off east coast of Honshu

ISC III 11 09 09 13.4–.83 37.66N–.04 143.32E–.04 32–5 5.5b 679 4-160
IDC III 11 09 09 08.3–.38 37.65N 143.46E 0 5.2,5.2 **¶602653384**
BJI III 11 09 09 11.4 37.75N 143.29E 33 5.8s,5.6
ISCJB III 11 09 09 12.4–.12 37.72N–.02 143.29E–.02 32 5.4b,5.6
MOS III 11 09 09 12.2–.96 37.80N 143.26E 28 5.7b,5.6
NEIC III 11 09 09 14.7–.38 37.68N 143.31E 39–3 5.5b,5.6
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.7km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=157.5.
MOS Error ellipse: s-maj=6.0km s-min=4.2km az=105.8.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.9km az=142.0.

(229) Off east coast of Honshu

ISC III 11 09 14 26.1–.52 35.59N–.08 142.15E–.08 22 4.5b 37 3-152
IDC III 11 09 14 22.7–.60 35.63N 142.05E 0 6.0,6.0s **¶16476124**
ISCJB III 11 09 14 24.1–.40 35.58N–.06 142.15E–.08 22 6.3s,4.5b
NEIC III 11 09 14 27.9–.45 35.64N 141.88E 35 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=13.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.4km az=33.6.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=10.3km az=125.0.

(229) Off east coast of Honshu

ISC III 11 09 31 13.8–.39 36.61N–.04 142.22E–.05 19 4.7b 102 1-151
ISCJB III 11 09 31 12.2–.24 36.58N–.03 142.26E–.03 19 5.6s,4.6b **¶602654316**
JMA III 11 09 31 15.3–.40 36.74N 142.04E 12–5 4.9,4.6b
IDC III 11 09 31 16.6–3.0 36.61N 142.19E 38–25 5.6,5.6s
NEIC III 11 09 31 18.1–.78 36.58N 142.17E 53–7 4.8b,5.6s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=161.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=11.7km az=111.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=124.0.

(228) Near east coast of eastern Honshu

ISC III 11 09 37 08.1–.28 35.94N–.03 141.60E–.03 29–1 5.5b 1191 1-154
IDC III 11 09 37 03.6–.35 35.94N 141.72E 0 5.1,5.0 **¶16304107**
NEIC III 11 09 37 04.6–1.4 35.91N 141.60E 6–8 5.5b,5.0
ISCJB III 11 09 37 05.9–.79 35.95N–.02 141.62E–.02 24–5 5.6s,5.5b
BJI III 11 09 37 05.6 35.92N 141.59E 29 5.8s,5.6
MOS III 11 09 37 06.2–1.0 35.97N 141.58E 26 5.6b,5.6
JMA III 11 09 37 06.4–.20 36.03N 141.77E 31–3 5.3,5.6
ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=8.7km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=128.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Saitama and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=136.1.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 09 42 20.9–.81 39.48N–.03 142.84E–.04 25–5 5.2b 851 2-159
IDC III 11 09 42 17.6–.45 39.54N 142.79E 0 5.1,5.0 **¶16304945**
JMA III 11 09 42 20.1–.20 39.50N 142.75E 24–2 5.6,5.0
ISCJB III 11 09 42 20.2–.91 39.53N–.02 142.78E–.02 26–6 5.3s,5.1b
MOS III 11 09 42 20.0–.87 39.68N 142.72E 20 5.4b,5.1b
BJI III 11 09 42 20.1 39.43N 142.75E 32 5.8s,5.6
NEIC III 11 09 42 20.6–1.6 39.50N 142.71E 18–9 5.3b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=149.3.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=86.5.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=142.0. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.

(229) Off east coast of Honshu

ISC III 11 09 47 00.7–.45 39.65N–.03 143.25E–.04 34–1 5.5b 702 2-154
BJI III 11 09 46 56.5 39.62N 143.15E 22 5.7s,5.6 **¶602654271**
JMA III 11 09 46 58.7–.20 39.59N 143.26E 28 5.7,5.6
MOS III 11 09 46 58.6–.96 39.69N 143.06E 25 5.8b,5.6
ISCJB III 11 09 46 59.3–.85 39.67N–.02 143.06E–.03 29–5 5.8s,5.4b
NEIC III 11 09 47 01.8–.50 39.60N 143.06E 39–4 5.4b,5.4b
IDC III 11 09 47 01.8–1.9 39.61N 143.19E 40–17 5.1,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.6km s-min=3.9km az=106.9.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.5km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=146.0. Recorded [2 JMA] in Akita, Aomori, Fukushima, Ibaraki, Iwate, Miyagi, Tochigi and Yamagata.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=109.0.

(228) Near east coast of eastern Honshu

ISC III 11 09 59 52.4–.32 36.62N–.04 142.28E–.05 15 5.2b 338 1-160
ISCJB III 11 09 59 51.1–.16 36.61N–.02 142.25E–.02 15 5.0b,5.0s **¶16476272**
NEIC III 11 09 59 52.0–.14 36.66N 142.19E 10 5.3b,5.0s
JMA III 11 09 59 52.6–.20 36.65N 142.30E 36 5.0,5.0s
MOS III 11 09 59 53.1–1.1 36.66N 142.23E 32 5.3b,5.0s
IDC III 11 09 59 55.8–2.3 36.65N 142.24E 39–20 4.7,4.6
BJI III 11 09 59 57.6 37.07N 141.68E 42 5.8b,5.6s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=162.4.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=152.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=6.6km az=105.3.
IDC Error ellipse: s-maj=11.7km s-min=9.5km az=107.0.

(228) Near east coast of eastern Honshu

ISC III 11 10 10 34.5–.47 39.22N–.03 142.59E–.03 28–3 6.2s,6.0b 1801 2-159
NIED III 11 10 10 00 39.40N 142.10E 53 6.2W,6.0b **¶17193757**
ISCJB III 11 10 10 29.6–.73 39.14N–.02 142.83E–.02 7–4 6.2s,5.9b
IDC III 11 10 10 30.5–.32 39.24N 142.77E 0 6.2,6.2s
BJI III 11 10 10 30.3 39.30N 142.80E 30 6.4b,6.1
MOS III 11 10 10 33.7–1.2 39.20N 142.72E 32 6.3s,6.2b
NEIC III 11 10 10 34.2–.97 39.19N 142.76E 26–6 6.0b,6.2b
JMA III 11 10 10 39.7–.10 39.33N 142.15E 44–1 6.2,6.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ19.00000°,λ69.00000°. NP2:ϕ_s29.00000°,δ72.00000°,λ97.00000°. $M_0$1.90000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=154.8.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=96.0.
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=108.6.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=141.0. Recorded [4 JMA] in Iwate and Miyagi.
JMA Event type fe.

(229) Off east coast of Honshu

ISC III 11 10 20 26.7–.39 36.95N–.04 142.31E–.04 23–2 5.4b 828 1-160
BJI III 11 10 20 23.1 36.67N 142.27E 22 6.0b,5.8 **¶602654193**
JMA III 11 10 20 24.5–.30 36.91N 142.29E 12–5 5.8,5.8
NEIC III 11 10 20 26.2–.73 36.90N 142.25E 18–4 5.4b,5.8
ISCJB III 11 10 20 26.0–1.0 36.91N–.02 142.24E–.02 27–7 5.8s,5.3b
MOS III 11 10 20 28.5–.83 37.30N 142.17E 33 5.7b,5.3b
IDC III 11 10 20 29.0–1.9 36.84N 142.30E 42–17 5.0,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=160.9.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=99.3.
IDC Error ellipse: s-maj=10.8km s-min=9.8km az=102.0.

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ISC III 11 10 21 07.5–1.3 37.29N–.04 142.05E–.05 30–9 5.4b 257 1-157
ISCJB III 11 10 21 03.7–.85 37.24N–.03 142.08E–.04 15–5 5.5s,5.3b **¶16476287**
MOS III 11 10 21 06.5–.92 37.37N 142.08E 31 5.6b,5.3b
JMA III 11 10 21 07.6–.20 37.35N 141.91E 22–4 5.5,5.3b
NEIC III 11 10 21 09.3–.62 37.26N 142.03E 44–5 5.4b,5.3b
IDC III 11 10 21 09.5–1.8 37.27N 142.00E 42–16 5.5s,5.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=32.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=93.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=122.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=102.0.

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ISC III 11 10 22 03.6–.31 36.65N–.05 142.49E–.06 15 5.6b 208 3-160
IDC III 11 10 22 01.0–.44 36.66N 142.58E 0 5.6,5.5b **¶17193768**
ISCJB III 11 10 22 01.9–.23 36.61N–.04 142.47E–.05 15 5.5b,5.5b
NEIC III 11 10 22 02.6–.20 36.67N 142.52E 10 5.5b,5.5b
MOS III 11 10 22 04.4–1.2 36.60N 142.46E 33 6.0b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=11.4km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.1km az=21.5.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.8km az=105.0.
MOS Error ellipse: s-maj=10.6km s-min=5.7km az=116.2.

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ISC III 11 10 28 42.5–.45 39.44N–.03 143.65E–.04 19–3 5.9b 1384 3-158
BJI III 11 10 28 40.1 39.40N 143.50E 10 6.0b,5.8s **¶602707281**
IDC III 11 10 28 42.5–5.6 39.40N 143.72E 20–35 5.5,5.4
NEIC III 11 10 28 42.7–.97 39.40N 143.59E 20–6 5.9b,5.4
ISCJB III 11 10 28 42.3–.09 39.39N–.02 143.66E–.02 28 5.8s,5.8b
MOS III 11 10 28 43.6–.85 39.50N 143.63E 33 6.0b,5.8b
ISC Event type ke.
IDC Error ellipse: s-maj=10.9km s-min=8.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=158.1.
MOS Error ellipse: s-maj=6.8km s-min=4.2km az=99.8.

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ISC III 11 10 35 37.1–.27 37.05N–.03 141.32E–.04 45–2 5.0b 830 0-161
BJI III 11 10 35 31.3 36.61N 141.30E 16 5.5s,5.4 **¶17193775**
NEIC III 11 10 35 36.7–.45 37.05N 141.20E 38–4 5.2b,5.4
JMA III 11 10 35 36.5–.10 37.07N 141.34E 49–1 5.1,5.4
MOS III 11 10 35 36.3–.87 37.31N 141.15E 40 5.1b,5.4
ISCJB III 11 10 35 36.4–.35 37.04N–.02 141.22E–.03 50–3 5.6s,5.0b
IDC III 11 10 35 37.2–.32 37.07N 141.18E 45–2 4.9,4.7
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=130.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=80.3.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=37.0.
IDC Error ellipse: s-maj=10.6km s-min=7.5km az=110.0.

(229) Off east coast of Honshu

ISC III 11 10 45 43.5–.47 38.50N–.04 143.76E–.05 26–2 5.6b 628 4-150
IDC III 11 10 45 39.8–.45 38.40N 143.73E 0 5.3,5.2 **¶602707278**
BJI III 11 10 45 43.8 38.58N 143.45E 31 5.8b,5.5
ISCJB III 11 10 45 43.5–.13 38.46N–.02 143.69E–.02 33 5.6s,5.5b
NEIC III 11 10 45 44.7–1.6 38.42N 143.75E 33–11 5.6b,5.5b
MOS III 11 10 45 45.1–1.0 38.71N 143.56E 38 5.7b,5.5b
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=146.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=151.9.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=138.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=96.6.

(229) Off east coast of Honshu

ISC III 11 10 47 11.6–.41 37.57N–.06 143.10E–.06 24 5.2b 145 4-151
IDC III 11 10 47 07.5–.62 37.45N 143.12E 0 5.1,5.1 **¶16461315**
NEIC III 11 10 47 09.0–3.5 37.49N 143.05E 7–21 5.1,5.1
ISCJB III 11 10 47 09.9–.31 37.46N–.05 143.02E–.05 24 5.1s,5.1b
MOS III 11 10 47 11.3–1.3 37.50N 143.01E 33 5.7b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.2km az=159.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.4km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.9km az=144.5.
MOS Error ellipse: s-maj=10.3km s-min=7.7km az=109.6.

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ISC III 11 10 52 05.0–.36 38.60N–.04 143.41E–.04 15 5.0b 387 3-146
BJI III 11 10 52 04.1 38.75N 143.47E 24 5.8b,5.4s **¶16304953**
ISCJB III 11 10 52 04.2–.18 38.60N–.03 143.34E–.03 15 5.2s,5.0b
MOS III 11 10 52 07.8–.88 38.78N 143.26E 36 5.4b,5.0b

IDC III 11 10 52 08.6–2.3 38.45N 143.45E 45–21 4.8,4.6
NEIC III 11 10 52 08.3–.55 38.49N 143.36E 36–5 5.0b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.8km az=159.6.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=112.6.
IDC Error ellipse: s-maj=12.0km s-min=11.1km az=123.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.6km az=150.0.

(228) Near east coast of eastern Honshu

ISC III 11 10 58 03.2–.73 39.00N–.04 142.37E–.04 20–3 5.1b 389 1-147
IDC III 11 10 57 60.0–.52 38.94N 142.33E 0 4.8,4.8 **¶602654060**
BJI III 11 10 57 59.3 38.90N 142.53E 20 5.5b,5.4s
MOS III 11 10 58 02.4–.83 39.08N 142.24E 21 5.4b,5.4s
NEIC III 11 10 58 02.8–1.6 39.00N 142.27E 15–10 5.2b,5.4s
JMA III 11 10 58 04.3–.10 39.02N 142.37E 32–1 4.9,5.4s
ISCJB III 11 10 58 04.1–.96 39.00N–.02 142.32E–.03 33–6 5.0s,5.0b
ISC Event type ke.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 11 00 53.7–.39 37.76N–.03 141.66E–.04 54–3 5.5b 1416 1-160
BJI III 11 11 00 48.6 37.73N 141.83E 42 5.8b,5.5 **¶17193791**
MOS III 11 11 00 50.5–.79 37.92N 141.57E 32 5.7b,5.5
IDC III 11 11 00 51.2–3.6 37.74N 141.59E 33–27 5.4,5.3
NEIC III 11 11 00 52.4–.35 37.74N 141.50E 42–3 5.6b,5.3
JMA III 11 11 00 53.0 37.72N 141.73E 46–2 5.5,5.3
ISCJB III 11 11 00 54.0–.26 37.77N–.02 141.58E–.02 65–2 5.4b,5.3
ISC Event type se.
NEIC Event type fe. Recorded [4 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC III 11 11 09 45.6–.39 36.49N–.05 143.27E–.06 35 5.1b 177 4-146
IDC III 11 11 09 40.6–.44 36.51N 143.33E 0 5.5,5.5s **¶602707287**
MOS III 11 11 09 44.4–1.2 36.58N 143.28E 34 5.4b,5.5s
ISCJB III 11 11 09 44.0–.23 36.51N–.03 143.24E–.04 33 5.4s,5.0b
NEIC III 11 11 09 45.8–.17 36.48N 143.27E 35 5.2b,5.0b
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.7km az=98.0.
MOS Error ellipse: s-maj=11.7km s-min=6.5km az=107.8.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=150.5.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=123.0.

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ISC III 11 11 10 56.3–.27 35.55N–.03 141.92E–.04 22 5.5b 503 1-153
IDC III 11 11 10 52.6–.42 35.57N 141.96E 0 5.7,5.7s **¶602442251**
JMA III 11 11 10 54.1–.30 35.73N 142.11E 28–5 5.9,5.7s
BJI III 11 11 10 54.0 35.47N 141.63E 14 6.1s,5.9
ISCJB III 11 11 10 54.9–.13 35.55N–.02 141.84E–.02 22 5.9s,5.3b
MOS III 11 11 10 56.1–1.2 35.65N 141.84E 29 5.6b,5.3b
NEIC III 11 11 10 58.3–.11 35.54N 141.84E 35 5.5b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=90.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=152.2.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=110.1.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.5km az=142.0.

(228) Near east coast of eastern Honshu

ISC III 11 11 13 11.6–.50 36.38N–.03 141.89E–.03 20–2 5.5b 965 1-158
BJI III 11 11 13 08.9 36.15N 141.53E 10 6.1s,5.9 **¶16304958**
JMA III 11 11 13 10.7–.10 36.32N 141.95E 37 5.6,5.9
ISCJB III 11 11 13 11.2–.65 36.33N–.02 141.85E–.02 26–4 6.0s,5.4b
NEIC III 11 11 13 13.0–.98 36.38N 141.78E 26–7 5.5b,5.4b
MOS III 11 11 13 13.7–.96 36.72N 141.69E 33 5.7b,5.4b
IDC III 11 11 13 14.1–2.1 36.35N 141.83E 37–18 5.1,5.0
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=174.4.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=146.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Iwate, Miyagi, Saitama, Tochigi and Yamagata.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=109.2.
IDC Error ellipse: s-maj=10.7km s-min=9.3km az=104.0.

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ISC III 11 11 15 52.0–.38 39.17N–.06 143.50E–.06 20 5.2b 252 2-148
ISCJB III 11 11 15 50.7–.20 39.18N–.03 143.40E–.04 20 5.0b **¶16453090**
JMA III 11 11 15 51.0–.40 39.07N 143.54E 35 5.4
MOS III 11 11 15 53.9–.91 39.14N 143.38E 48 5.5b
IDC III 11 11 15 55.6–1.6 39.16N 143.44E 49–15 4.8,4.6
NEIC III 11 11 15 56.2–.55 39.19N 143.32E 52–5 5.3b,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=144.5.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=6.6km az=99.2.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=125.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=133.0.

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ISC III 11 11 16 49.2–.56 36.61N–.04 141.92E–.04 32–3 5.4b 762 1-157
IDC III 11 11 16 44.3–.34 36.66N 141.95E 0 5.1,5.1 **¶17193797**
ISCJB III 11 11 16 44.3–.92 36.65N–.03 142.11E–.03 15–6 6.2s,5.4b
BJI III 11 11 16 46.3 36.40N 142.10E 34 5.9s,5.8b
MOS III 11 11 16 48.3–.98 36.66N 141.80E 33 5.6b,5.8b
JMA III 11 11 16 49.7–.20 36.63N 141.71E 43–3 5.5,5.8b
NEIC III 11 11 16 50.2–.60 36.63N 141.81E 37–5 5.5b,5.8b
ISC Event type se.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.7km az=160.8.
MOS Error ellipse: s-maj=7.8km s-min=5.2km az=103.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=124.0. Recorded [3 JMA] in Fukushima and Tochigi.

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ISC III 11 11 21 02.7–.36 35.72N–.03 141.03E–.04 35–1 5.6b 1044 0-162
BJI III 11 11 20 56.8 35.67N 141.06E 15 5.9s,5.6 **¶602707286**
JMA III 11 11 20 59.9–.20 35.79N 141.20E 39–1 5.6,5.6
MOS III 11 11 21 01.3–.90 35.72N 140.93E 33 5.7b,5.6
ISCJB III 11 11 21 02.4–.33 35.70N–.02 140.93E–.02 42–3 5.9s,5.5b
NEIC III 11 11 21 03.1–.10 35.68N 140.93E 35 5.7b,5.5b
IDC III 11 11 21 03.2–.46 35.65N 141.00E 40–4 5.1,5.0
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=108.5.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=174.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=150.0. Recorded [4 JMA] in Chiba.
IDC Error ellipse: s-maj=9.5km s-min=6.3km az=108.0.

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ISC III 11 11 21 28.2–.35 37.59N–.06 143.10E–.06 24 5.8b 246 4-159
IDC III 11 11 21 24.0–.61 37.44N 143.12E 0 5.7,5.6 **¶17193802**
ISCJB III 11 11 21 27.1–.25 37.60N–.04 143.01E–.05 24 5.7b,5.6
MOS III 11 11 21 29.6–.78 37.76N 142.98E 37 6.0b,5.6
NEIC III 11 11 21 29.8–.16 37.55N 143.07E 35 5.8b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=14.9km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.3km az=138.6.
MOS Error ellipse: s-maj=14.5km s-min=8.4km az=103.8.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=149.0.

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ISC III 11 11 27 19.7–.34 39.17N–.04 143.44E–.05 20 5.2b 180 3-154
IDC III 11 11 27 16.5–.41 39.13N 143.44E 0 4.8,4.8 **¶16453093**
NEIC III 11 11 27 18.5–.16 39.13N 143.37E 10 5.4b,4.8
ISCJB III 11 11 27 18.2–.20 39.09N–.03 143.33E–.04 20 5.0b,4.8
MOS III 11 11 27 19.7–1.2 39.16N 143.38E 33 5.6b,4.8
JMA III 11 11 27 20.2–.30 39.26N 143.29E 0 5.7,4.8
ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=9.5km az=109.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=29.9.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=98.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

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ISC III 11 11 30 18.3–.47 39.24N–.05 143.54E–.06 11 5.2b 232 3-148
JMA III 11 11 30 16.2–.50 39.29N 143.63E 0 5.7 **¶602654035**
IDC III 11 11 30 16.7–.58 39.24N 143.48E 0 4.9,4.8
ISCJB III 11 11 30 17.1–.26 39.25N–.03 143.44E–.04 11 5.1b,4.8
NEIC III 11 11 30 19.1–1.7 39.22N 143.43E 14–10 5.4b,4.8
MOS III 11 11 30 20.6–1.0 39.31N 143.38E 34 5.5b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=11.7km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=135.3.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.4km az=138.0.
MOS Error ellipse: s-maj=8.5km s-min=5.4km az=112.6.

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ISC III 11 11 32 12.5–.58 36.19N–.06 142.33E–.08 18 5.1b 53 3-154
ISCJB III 11 11 32 10.5–.47 36.17N–.04 142.36E–.07 18 5.0b **¶16461320**
IDC III 11 11 32 10.2–.88 36.13N 142.22E 0 5.1L,5.0
NEIC III 11 11 32 14.8–.18 36.24N 142.40E 35 5.7b,5.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=1.6.
IDC Error ellipse: s-maj=25.0km s-min=17.1km az=77.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.2km az=166.0.

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ISC III 11 11 32 25.7–.55 39.13N–.04 143.23E–.04 26–3 5.7b 776 3-159
BJI III 11 11 32 20.5 39.08N 143.65E 20 5.8s,5.5 **¶16476340**
IDC III 11 11 32 21.3–.39 39.03N 143.25E 0 5.5,5.4
ISCJB III 11 11 32 24.2–.12 39.14N–.02 143.20E–.02 23 5.6b,5.4
MOS III 11 11 32 25.4–1.1 39.08N 143.12E 36 5.8b,5.4
NEIC III 11 11 32 27.1–.47 39.07N 143.17E 36–4 5.8b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.7km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=159.2.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=97.8.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=136.0.

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ISC III 11 11 35 26.2–.42 37.92N–.07 144.80E–.08 26 5.5b 125 4-164
IDC III 11 11 35 21.6–.60 37.83N 144.90E 0 5.1,4.9 **¶16476173**
ISCJB III 11 11 35 24.7–.24 37.89N–.05 144.70E–.05 26 5.6b,4.9
NEIC III 11 11 35 25.3–2.5 37.91N 144.78E 18–15 5.3b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.8km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=159.6.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=131.0.

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ISC III 11 11 36 40.0–.40 39.22N–.02 142.53E–.03 19–1 6.7s,6.5b 2188 2-161
NIED III 11 11 36 00 39.20N 142.60E 38 6.6W,6.5b **¶17193804**
IDC III 11 11 36 36.9–.30 39.25N 142.47E 0 6.8,6.8s
BJI III 11 11 36 36.6 39.00N 142.50E 20 6.9,6.9s
ISCJB III 11 11 36 39.8–.61 39.21N–.01 142.51E–.01 30–4 6.7s,6.4b
JMA III 11 11 36 39.9–.10 39.23N 142.58E 24–1 6.7,6.4b
NEIC III 11 11 36 40.9–.68 39.24N 142.46E 26–4 6.6s,6.5b
MOS III 11 11 36 41.0–.92 39.38N 142.46E 33 6.8b,6.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ33.00000°,λ5.00000°. NP2:ϕ_s54.00000°,δ87.00000°,λ123.00000°. $M_0$8.33000×10^{18}
IDC Error ellipse: s-maj=11.1km s-min=8.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=142.0. Felt at Kashiwa, Misawa, Tokyo, Urayasu and Yokohama. Recorded [5L JMA] in Iwate.
MOS Error ellipse: s-maj=5.2km s-min=3.4km az=103.5.

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ISC III 11 11 44 24.9–1.0 36.74N–.03 142.34E–.03 15–6 5.7b 1062 1-161
IDC III 11 11 44 22.0–.33 36.65N 142.40E 0 5.5,5.4 **¶17193807**
ISCJB III 11 11 44 22.5–.98 36.71N–.02 142.30E–.02 6–6 6.2s,5.7b
JMA III 11 11 44 23.0–.30 36.70N 142.45E 13 5.7,5.7b
BJI III 11 11 44 25.7 36.59N 142.03E 24 6.1b,6.0
MOS III 11 11 44 26.7–1.2 36.81N 142.23E 34 5.9b,6.0
NEIC III 11 11 44 28.3–.10 36.70N 142.24E 35 5.7b,6.0
ISC Event type se.
IDC Error ellipse: s-maj=11.2km s-min=8.8km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.3km az=110.2.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.6km az=142.0.

(228) Near east coast of eastern Honshu

ISC III 11 11 46 43.5–.55 36.07N–.03 141.10E–.04 24–3 5.5b 271 0-155
IDC III 11 11 46 39.7–.41 36.04N 141.17E 0 5.1,5.0 **¶16304963**
NEIC III 11 11 46 42.5–1.4 36.00N 141.17E 18–8 5.8b,5.0
MOS III 11 11 46 42.0–1.0 36.04N 141.13E 24 5.9b,5.0
ISCJB III 11 11 46 42.8–.61 36.05N–.02 141.17E–.04 31–4 6.0s,5.4b
BJI III 11 11 46 43.0 35.87N 141.12E 38 6.1,6.1s
JMA III 11 11 46 43.3–.10 36.06N 141.18E 41–2 5.4,6.1s
ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=10.2km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=112.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=9.1km s-min=5.1km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 11 49 24.4–.45 37.92N–.08 144.44E–.07 35 4.8b 52 4-150
IDC III 11 11 49 19.0–.55 37.88N 144.47E 0 6.1,6.1s **¶602654008**
ISCJB III 11 11 49 22.3–.35 37.89N–.06 144.38E–.06 33 6.2s,4.7b
NEIC III 11 11 49 22.6–2.2 37.90N 144.49E 23–15 6.2s,4.7b
ISC Event type ke.
IDC Error ellipse: s-maj=17.8km s-min=13.6km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.5km az=150.3.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.3km az=110.0.

(229) Off east coast of Honshu

ISC III 11 11 53 56.7–.43 36.97N–.06 142.55E–.06 9 5.0b 157 4-150
IDC III 11 11 53 55.4–.53 36.95N 142.57E 0 4.7,4.6 **¶16310113**
ISCJB III 11 11 53 55.2–.24 36.94N–.04 142.51E–.04 9 5.7s,4.8b
MOS III 11 11 53 59.2–1.1 36.99N 142.48E 39 5.3b,4.8b
NEIC III 11 11 54 00.7–.19 36.93N 142.51E 35 5.3b,4.8b
BJI III 11 11 54 02.6 36.95N 141.97E 35 5.8b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.4km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=157.3.
MOS Error ellipse: s-maj=9.3km s-min=6.6km az=115.2.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.9km az=149.0.

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ISC III 11 11 56 13.2–.37 36.28N–.04 141.62E–.04 27–1 5.3b 664 1-155
MOS III 11 11 56 11.3–.92 36.27N 141.53E 22 5.6b **¶602707295**
BJI III 11 11 56 12.7 36.17N 141.72E 41 5.8s,5.7
ISCJB III 11 11 56 12.1–.84 36.21N–.03 141.60E–.02 28–5 5.9s,5.2b
NEIC III 11 11 56 13.2–1.1 36.27N 141.53E 23–7 5.5b,5.2b
JMA III 11 11 56 13.1–.10 36.28N 141.68E 40–4 5.3,5.2b
IDC III 11 11 56 14.2–.47 36.20N 141.60E 34–2 4.9,4.8
ISC Event type ke.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=112.9.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=179.6.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.9km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=11.0km s-min=9.4km az=130.0.

(229) Off east coast of Honshu

ISC	**III**	**11 11 56 34.6–.35**	**37.68N–.06**	**143.04E–.05**	**24**	**5.3b**	**220**	**4-154**
IDC	III	11 11 56 30.5–.47	37.64N	143.11E	0	5.2,5.2b		**¶602707293**
ISCJB	III	11 11 56 33.3–.27	37.71N–.04	142.98E–.05	24	5.3b,5.2b		
MOS	III	11 11 56 34.6–1.1	37.80N	142.97E	33	5.6b,5.2b		
NEIC	III	11 11 56 34.9–1.9	37.69N	143.01E	26–13	5.6b,5.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=13.7km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.3km az=142.2.
MOS Error ellipse: s-maj=11.6km s-min=7.4km az=102.8.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=125.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 57 14.2–.41**	**39.18N–.04**	**142.25E–.04**	**32–2**	**5.3b**	**379**	**1-159**
MOS	III	11 11 57 13.3–.80	39.30N	142.12E	33	5.5b		**¶17193815**
JMA	III	11 11 57 14.1–.10	39.27N	142.31E	29–1	5.3		
ISCJB	III	11 11 57 14.5–.52	39.23N–.03	142.09E–.04	43–4	5.2b		
IDC	III	11 11 57 14.9–2.5	39.21N	142.22E	38–21	5.1,5.0		
NEIC	III	11 11 57 16.1–.48	39.20N	142.09E	44–4	5.3b,5.0		

ISC Event type se.
MOS Error ellipse: s-maj=9.4km s-min=6.3km az=77.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=27.4.
IDC Error ellipse: s-maj=12.0km s-min=10.4km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=135.0. Recorded [4 JMA] in Iwate.

(229) Off east coast of Honshu

ISC	**III**	**11 11 58 52.9–.37**	**35.81N–.05**	**142.16E–.04**	**23**	**5.3b**	**131**	**2-151**
IDC	III	11 11 58 48.1–.59	35.70N	142.13E	0	5.6,5.6s		**¶16476176**
ISCJB	III	11 11 58 51.2–.25	35.77N–.04	142.06E–.04	23	5.4s,5.2b		
MOS	III	11 11 58 52.7–1.5	35.73N	142.06E	38	5.5b,5.2b		
NEIC	III	11 11 58 54.4–.24	35.75N	142.08E	35	5.6b,5.2b		
JMA	III	11 11 58 55.8–.40	37.92N	142.74E	30	5.4,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=15.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=15.5.
MOS Error ellipse: s-maj=10.7km s-min=7.6km az=114.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 12 04 14.2–.39**	**36.29N–.05**	**142.78E–.05**	**29**	**4.9b**	**165**	**4-154**
IDC	III	11 12 04 10.0–.48	36.32N	142.72E	0	4.7,4.6		**¶602653982**
NEIC	III	11 12 04 11.9–.19	36.33N	142.74E	10	5.1b,4.6		
ISCJB	III	11 12 04 12.8–.24	36.27N–.04	142.69E–.04	29	4.9s,4.9b		
BJI	III	11 12 04 13.4	36.36N	142.40E	16	5.8s,5.6		
MOS	III	11 12 04 14.3–1.0	36.48N	142.66E	34	5.3b,5.6		

ISC Event type ke.
IDC Error ellipse: s-maj=13.8km s-min=11.6km az=115.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.0km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=157.4.
MOS Error ellipse: s-maj=9.1km s-min=6.9km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 12 12 53.4–.38**	**38.06N–.03**	**142.61E–.03**	**28–2**	**5.9b**	**1453**	**1-156**
ISCJB	III	11 12 12 49.4–.90	38.08N–.02	142.58E–.02	10–5	5.9s,5.8b		**¶17193828**
BJI	III	11 12 12 49.0	38.10N	142.50E	12	6.1b,6.1s		
MOS	III	11 12 12 51.8–.92	38.15N	142.56E	24	6.0b,5.8s		
IDC	III	11 12 12 52.3–5.5	38.02N	142.63E	20–34	5.7s,5.7		
NEIC	III	11 12 12 54.8–.07	38.06N	142.55E	35	5.9b,5.7		
NIED	III	11 12 13 00	37.10N	142.20E	41	5.9W,5.7		
JMA	III	11 12 13 03.0–.30	37.23N	142.22E	26	6.2,5.7		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=150.2.
MOS Error ellipse: s-maj=5.4km s-min=3.5km az=105.3.
IDC Error ellipse: s-maj=10.1km s-min=7.2km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=141.0. Recorded [4 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ32.00000°,λ177.00000°. NP2:ϕ_s328.00000°,δ88.00000°,λ58.00000°. $M_0$7.95000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

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ISC	**III**	**11 12 15 27.5–.58**	**39.33N–.10**	**143.7E–.10**	**11**	**5.2b**	**50**	**7-147**
ISCJB	III	11 12 15 25.7–.44	39.29N–.07	143.64E–.09	11	5.7s,5.1b		**¶16453099**
IDC	III	11 12 15 25.7–.56	39.32N	143.65E	0	5.7,5.7s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.7km az=138.8.
IDC Error ellipse: s-maj=17.3km s-min=13.3km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 12 15 43.1–.49**	**39.08N–.03**	**142.27E–.05**	**32–3**	**5.7b**	**304**	**1-159**
MOS	III	11 12 15 41.8–.75	39.12N	142.28E	33	6.1b		**¶17193830**
JMA	III	11 12 15 42.0–.10	39.13N	142.41E	23–1	5.9		
ISCJB	III	11 12 15 43.5–.55	39.08N–.02	142.35E–.05	51–4	5.5b		
IDC	III	11 12 15 43.4–.52	39.09N	142.29E	32–3	5.4,5.2		
NEIC	III	11 12 15 45.3–.58	39.08N	142.26E	50–5	5.8b,5.2		

ISC Event type se.
MOS Error ellipse: s-maj=11.0km s-min=6.2km az=126.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.2km az=5.8.
IDC Error ellipse: s-maj=10.0km s-min=8.1km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.6km az=94.0. Recorded [4 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 12 33 14.9–.88**	**38.06N–.04**	**142.82E–.04**	**26–6**	**5.0b**	**304**	**2-151**
JMA	III	11 12 33 10.9–.30	38.07N	142.76E	10	5.1		**¶17193850**
IDC	III	11 12 33 10.1–.49	38.08N	142.99E	0	4.7,4.6		
BJI	III	11 12 33 13.6	38.08N	142.88E	26	5.5,5.5s		
MOS	III	11 12 33 14.4–.97	38.21N	142.77E	30	5.2b,5.5s		
ISCJB	III	11 12 33 14.2–1.0	38.06N–.03	142.76E–.03	30–7	5.2s,5.0b		
NEIC	III	11 12 33 18.2–.61	38.06N	142.70E	51–5	5.4b,5.0b		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=113.0.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=109.2.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=136.0. Recorded [3 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**11 12 34 20.6–.37**	**37.08N–.05**	**143.61E–.05**	**35**	**5.1b**	**241**	**4-153**
IDC	III	11 12 34 17.8–.83	37.29N	142.74E	28–5	4.7,4.7		**¶16449482**
BJI	III	11 12 34 18.0	36.90N	143.70E	35	5.6b,5.5s		
NEIC	III	11 12 34 19.7–.76	36.99N	143.62E	26–5	5.3b,5.5s		
MOS	III	11 12 34 19.3–1.5	37.06N	143.65E	34	5.5b,5.5s		
ISCJB	III	11 12 34 19.1–.19	36.98N–.03	143.59E–.04	33	5.2s,5.2b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

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ISC	**III**	**11 12 49 02.1–.23**	**36.17N–.03**	**141.67E–.03**	**34–0**	**5.6b,5.5s**	**1555**	**1-158**
BJI	III	11 12 48 59.7	36.11N	141.45E	21	5.8b,5.5s		**¶16476167**
JMA	III	11 12 49 00.1–.20	36.24N	141.76E	35–5	5.3,5.5s		
ISCJB	III	11 12 49 01.3–.39	36.14N–.02	141.62E–.02	38–3	5.6b,5.4s		
MOS	III	11 12 49 01.9–.93	36.22N	141.61E	41	5.8b,5.4s		
IDC	III	11 12 49 02.3–.34	36.16N	141.67E	32–2	5.3,5.2		
NEIC	III	11 12 49 02.6–.07	36.15N	141.60E	35	5.6b,5.2		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=136.6.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=116.5.
IDC Error ellipse: s-maj=9.7km s-min=8.4km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=145.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 12 54 52.1–.33**	**38.53N–.04**	**142.16E–.04**	**44–2**	**5.4b,5.4s**	**1287**	**1-160**
BJI	III	11 12 54 47.0	38.42N	142.37E	36	5.6b,5.4s		**¶17193865**
MOS	III	11 12 54 50.2–.90	38.61N	142.01E	34	5.6b,5.4s		
JMA	III	11 12 54 51.3–.10	38.50N	142.15E	39–2	5.1,5.4s		
ISCJB	III	11 12 54 51.6–.38	38.51N–.02	142.03E–.02	49–3	5.5s,5.4b		
NEIC	III	11 12 54 53.2–.38	38.50N	141.98E	51–3	5.4b,5.4b		
IDC	III	11 12 54 53.5–1.8	38.49N	142.06E	54–15	5.2,5.0		

ISC Event type se.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=100.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=155.5.
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.0km az=137.0.
IDC Error ellipse: s-maj=10.9km s-min=9.1km az=109.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 12 56 03.8–.31**	**37.77N–.04**	**142.01E–.04**	**25–1**	**5.4b**	**187**	**1-151**
JMA	III	11 12 56 03.6–.20	37.79N	142.05E	29–5	5.3		**¶602653906**
ISCJB	III	11 12 56 03.1–1.5	37.71N–.03	142.08E–.04	31–11	5.2b		
MOS	III	11 12 56 04.4–.92	37.95N	141.95E	33	5.8b		
IDC	III	11 12 56 05.2–.57	37.79N	142.06E	34–3	4.9,4.8		
NEIC	III	11 12 56 05.3–.17	37.80N	141.96E	35	5.5b,4.8		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=139.5.
MOS Error ellipse: s-maj=12.2km s-min=9.1km az=84.5.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.9km az=125.0.

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ISC	**III**	**11 12 59 19.1–.51**	**36.13N–.04**	**141.80E–.04**	**16–2**	**5.2b**	**482**	**1-154**
JMA	III	11 12 59 18.9–.20	36.15N	141.91E	35	5.3		**¶602653895**
BJI	III	11 12 59 18.6	35.92N	141.59E	23	5.8b,5.5s		
ISCJB	III	11 12 59 19.7–.15	36.10N–.03	141.72E–.02	28	5.2b,5.5s		
IDC	III	11 12 59 20.5–.65	36.12N	141.86E	27–4	5.0,4.9		
MOS	III	11 12 59 21.8–.89	36.63N	141.74E	29	5.5b,4.9		
NEIC	III	11 12 59 22.3–.14	36.15N	141.69E	35	5.2b,4.9		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=169.2.
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=136.0.
MOS Error ellipse: s-maj=7.3km s-min=4.7km az=112.4.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=159.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 13 02 41.0–.81**	**36.62N–.04**	**142.03E–.05**	**26–5**	**5.1b**	**188**	**1-146**
IDC	III	11 13 02 37.1–.59	36.56N	142.05E	0	4.8,4.7		**¶602653887**
ISCJB	III	11 13 02 39.7–1.2	36.56N–.03	142.09E–.03	31–8	5.1s,5.0b		
JMA	III	11 13 02 39.9–.20	36.57N	142.12E	55	4.8,5.0b		
BJI	III	11 13 02 40.5	36.57N	141.63E	21	5.8b,5.4		
MOS	III	11 13 02 40.9–.98	36.62N	142.03E	39	5.4b,5.4		
NEIC	III	11 13 02 43.2–.90	36.54N	141.98E	42–8	5.3b,5.4		

ISC Event type ke.
IDC Error ellipse: s-maj=15.1km s-min=12.9km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.3km az=146.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=5.9km az=129.1.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.5km az=51.0.

(229) Off east coast of Honshu

ISC	**III**	**11 13 15 44.1–.81**	**37.35N–.05**	**141.96E–.04**	**30–5**	**5.2b**	**704**	**1-146**
IDC	III	11 13 15 39.2–.51	37.21N	141.97E	0	5.0,5.0b		**¶16310118**
BJI	III	11 13 15 40.3	37.13N	142.20E	32	5.6b,5.5s		
JMA	III	11 13 15 43.3–.20	37.31N	141.93E	26–3	5.2,5.5s		
ISCJB	III	11 13 15 43.9–.52	37.35N–.03	141.95E–.03	37–4	5.1b,4.9s		
MOS	III	11 13 15 44.1–.88	37.61N	141.95E	30	5.5b,4.9s		
NEIC	III	11 13 15 47.0–.77	37.38N	141.88E	53–7	5.1b,4.9s		

ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=10.9km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=171.1.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=110.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.4km az=167.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 13 16 48.7–.50**	**36.40N–.03**	**141.84E–.03**	**30–3**	**5.9s,5.7b**	**1140**	**1-161**
NIED	III	11 13 16 00	36.40N	141.90E	17	5.7W,5.7b		**¶16304982**
IDC	III	11 13 16 44.4–.30	36.41N	141.86E	0	5.4s,5.4		
BJI	III	11 13 16 47.2	36.22N	141.57E	25	6.0b,5.9s		
ISCJB	III	11 13 16 47.9–.07	36.34N–.02	141.84E–.01	33	5.9s,5.7b		
MOS	III	11 13 16 47.9–1.0	36.39N	141.90E	38	6.0s,5.9b		
JMA	III	11 13 16 48.6–.20	36.43N	141.84E	28	5.7,5.9b		
NEIC	III	11 13 16 51.5–.71	36.37N	141.74E	58–6	5.6b,5.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ12.00000°,λ-170.00000°. NP2:ϕ_s191.00000°,δ88.00000°,λ-78.00000°. $M_0$3.80000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=162.0.
MOS Error ellipse: s-maj=6.6km s-min=3.9km az=116.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=122.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.

(229) Off east coast of Honshu

ISC	**III**	**11 13 18 15.0–.48**	**37.54N–.08**	**142.80E–.09**	**24**	**5.5b**	**110**	**4-145**
IDC	III	11 13 18 12.3–.68	37.57N	142.75E	0	5.3,5.2		**¶16449446**
ISCJB	III	11 13 18 13.5–.30	37.52N–.05	142.86E–.07	24	5.3b,5.2		
NEIC	III	11 13 18 16.6–.32	37.58N	142.83E	35	5.5b,5.2		
MOS	III	11 13 18 17.9–1.1	38.01N	142.90E	36	5.6b,5.2		

ISC Event type se.
IDC Error ellipse: s-maj=22.5km s-min=17.1km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.6km az=42.4.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.8km az=126.0.
MOS Error ellipse: s-maj=15.9km s-min=7.6km az=95.9.

(229) Off east coast of Honshu

ISC	**III**	**11 13 31 53.0–.35**	**39.24N–.05**	**142.85E–.05**	**16**	**4.9b**	**220**	**3-149**
BJI	III	11 13 31 48.6	39.13N	143.39E	25	5.6b,5.4s		**¶16476418**
ISCJB	III	11 13 31 51.7–.22	39.29N–.03	142.79E–.04	16	4.9s,4.8b		
MOS	III	11 13 31 54.7–1.1	39.52N	142.83E	33	5.1b,4.8b		
IDC	III	11 13 31 55.0–.47	39.21N	142.94E	31–2	4.7,4.7s		
NEIC	III	11 13 31 55.5–.24	39.21N	142.80E	35	5.1b,4.7s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.6km az=144.5.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=89.5.
IDC Error ellipse: s-maj=11.8km s-min=10.7km az=130.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.9km az=140.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 13 34 34.7–.75**	**36.26N–.03**	**141.87E–.04**	**31–4**	**5.5b**	**609**	**1-152**
NEIC	III	11 13 34 30.6–2.4	36.16N	141.84E	5–15	5.5b		**¶17193882**
MOS	III	11 13 34 32.5–1.1	36.26N	141.88E	27	5.7b,5.6s		
JMA	III	11 13 34 32.9–.30	36.29N	141.93E	23	5.6,5.6s		
BJI	III	11 13 34 33.2	36.22N	141.52E	20	5.8b,5.7s		
ISCJB	III	11 13 34 33.3–.92	36.25N–.02	141.87E–.02	30–6	5.6s,5.4b		
IDC	III	11 13 34 35.3–3.5	36.25N	141.90E	33–26	5.2,5.2s		

ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=124.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=116.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.0km az=42.5.
IDC Error ellipse: s-maj=11.8km s-min=8.7km az=93.0.

(229) Off east coast of Honshu

ISC	**III**	**11 13 43 10.7–.36**	**39.01N–.04**	**144.23E–.04**	**31–2**	**5.6b**	**1292**	**3-158**
IDC	III	11 13 43 06.0–.35	38.91N	144.22E	0	5.6s,5.5		**¶602707297**
JMA	III	11 13 43 07.9–.60	39.02N	144.22E	39	5.7,5.5		
ISCJB	III	11 13 43 08.7–.09	39.02N–.02	144.21E–.02	28	5.9s,5.5b		
BJI	III	11 13 43 09.2	39.06N	143.98E	20	6.1b,5.9s		
NEIC	III	11 13 43 09.6–1.5	38.99N	144.13E	25–10	5.7b,5.9s		
MOS	III	11 13 43 10.2–1.2	38.94N	144.15E	41	5.9b,5.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=10.5km s-min=9.1km az=113.0.
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=161.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.4km az=145.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=107.6.

(229) Off east coast of Honshu

ISC	**III**	**11 13 48 37.3–.50**	**38.43N–.04**	**143.23E–.05**	**26–3**	**5.3b**	**727**	**4-144**
IDC	III	11 13 48 33.3–.47	38.34N	143.17E	0	5.0,4.9		**¶17193892**
MOS	III	11 13 48 36.7–1.1	38.45N	143.13E	33	5.4b,4.9		
ISCJB	III	11 13 48 36.1–.14	38.39N–.03	143.10E–.03	28	5.2b,4.9		
BJI	III	11 13 48 37.1	38.40N	143.10E	25	5.7b,5.4s		
NEIC	III	11 13 48 37.8–1.5	38.37N	143.12E	33–10	5.3b,5.4s		

ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.7km az=137.0.
MOS Error ellipse: s-maj=7.1km s-min=4.2km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=165.3.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=142.0. Recorded [3 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 13 55 26.3–.49**	**37.98N–.05**	**142.92E–.05**	**25–3**	**5.3b**	**1008**	**4-154**
ISCJB	III	11 13 55 26.1–.12	38.06N–.03	142.86E–.02	29	5.2b		**¶16476432**
MOS	III	11 13 55 26.0–1.1	38.01N	142.99E	33	5.5b		
IDC	III	11 13 55 27.8–3.4	37.92N	142.94E	33–25	5.1,5.0		
BJI	III	11 13 55 28.4	38.06N	142.73E	53	5.6b,5.4		
NEIC	III	11 13 55 28.9–.62	38.00N	142.90E	47–5	5.2b,5.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.1km az=162.7.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=100.9.
IDC Error ellipse: s-maj=11.4km s-min=9.7km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=145.0. Recorded [3 JMA] in Fukushima, Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 14 00 36.8–.34**	**36.16N–.03**	**140.98E–.03**	**35–1**	**5.5b,5.4s**	**784**	**0-162**
BJI	III	11 14 00 33.0	36.00N	141.23E	37	5.8b,5.4s		**¶16304991**
MOS	III	11 14 00 34.5–1.0	36.17N	140.90E	26	5.8b,5.3s		
JMA	III	11 14 00 37.2	36.15N	140.88E	43–1	5.4,5.3s		
ISCJB	III	11 14 00 37.0–.29	36.13N–.02	140.90E–.02	48–2	5.4s,5.4b		
NEIC	III	11 14 00 38.6–.50	36.12N	140.76E	51–4	5.5b,5.4s		
IDC	III	11 14 00 38.2–.44	36.11N	140.86E	42–3	5.1,5.0		

ISC Event type se.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=107.6.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=41.9.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=141.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=9.7km s-min=7.0km az=105.0.

(229) Off east coast of Honshu

ISC	**III**	**11 14 10 36.9–.41**	**37.50N–.03**	**142.01E–.04**	**20–3**	**5.2b,4.9s**	**540**	**1-156**
IDC	III	11 14 10 34.0–.39	37.51N	142.04E	0	5.2,5.1		**¶602653221**
BJI	III	11 14 10 34.9	37.50N	142.17E	28	5.7b,5.2s		
NEIC	III	11 14 10 37.2–.71	37.50N	141.94E	22–5	5.2b,5.2s		
JMA	III	11 14 10 38.8–.20	37.50N	142.00E	31–4	5.2,5.2s		
MOS	III	11 14 10 38.4–1.0	37.73N	141.97E	33	5.5b,5.2s		
ISCJB	III	11 14 10 38.5–.43	37.58N–.03	142.01E–.03	40–3	5.1b,4.9s		

ISC Event type ke.
NEIC Event type fe. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 14 20 17.1–.59**	**37.58N–.06**	**143.29E–.06**	**29–3**	**5.0b**	**302**	**4-145**
ISCJB	III	11 14 20 12.5–1.7	37.50N–.04	143.28E–.03	11–10	5.0s,4.9b		**¶17193910**
IDC	III	11 14 20 13.3–.51	37.53N	143.24E	0	4.7,4.6		
BJI	III	11 14 20 16.8	37.90N	143.20E	25	5.5b,5.1		
NEIC	III	11 14 20 16.2–2.2	37.55N	143.22E	25–15	5.1b,5.1		
MOS	III	11 14 20 16.7–1.2	37.48N	143.23E	40	5.2b,5.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=164.6.
IDC Error ellipse: s-maj=13.6km s-min=11.9km az=137.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.0km az=150.0.
MOS Error ellipse: s-maj=7.7km s-min=5.6km az=110.1.

(229) Off east coast of Honshu

ISC	**III**	**11 14 26 31.2–.39**	**37.38N–.05**	**142.44E–.04**	**21**	**5.3s,5.0b**	**239**	**1-146**
BJI	III	11 14 26 26.5	37.53N	142.79E	13	5.4b,5.3		**¶602653054**
ISCJB	III	11 14 26 30.0–.19	37.41N–.03	142.43E–.03	21	5.6s,5.0b		
MOS	III	11 14 26 31.5–1.2	37.39N	142.44E	33	5.3b,5.0b		
NEIC	III	11 14 26 33.9–.81	37.41N	142.38E	38–7	5.0b,5.0b		
JMA	III	11 14 26 53.6–.10	36.63N	141.04E	43–1	4.8,5.0b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=152.3.
MOS Error ellipse: s-maj=9.7km s-min=7.6km az=98.7.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=4.7km az=130.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 14 27 40.4–.33**	**37.05N–.05**	**143.93E–.06**	**35**	**5.2b**	**358**	**5-153**
IDC	III	11 14 27 35.7–.40	37.09N	143.94E	0	5.0,4.9		**¶16304996**
ISCJB	III	11 14 27 39.0–.19	37.04N–.03	143.95E–.04	33	5.7s,5.1b		
MOS	III	11 14 27 39.6–1.1	37.18N	143.89E	33	5.5b,5.1b		
NEIC	III	11 14 27 40.5–.18	37.05N	143.96E	35	5.4b,5.1b		

ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=10.3km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=143.7.
MOS Error ellipse: s-maj=8.9km s-min=5.2km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=138.0. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 14 44 08.9–.40**	**36.67N–.03**	**140.99E–.04**	**44–3**	**5.1b**	**548**	**0-152**
NIED	III	11 14 44 00	36.60N	141.00E	47	4.9W		**¶17193938**
BJI	III	11 14 44 01.8	36.55N	141.30E	25	5.5b,5.2s		
MOS	III	11 14 44 08.0–.83	36.89N	140.89E	37	5.5b,5.2s		
ISCJB	III	11 14 44 09.2–.29	36.66N–.02	140.88E–.03	56–2	5.9s,5.1b		
IDC	III	11 14 44 09.3–.39	36.65N	140.90E	44–3	5.0,4.8		
JMA	III	11 14 44 09.4	36.65N	140.98E	47–1	4.9,4.8		
NEIC	III	11 14 44 11.1–.58	36.67N	140.80E	59–5	5.1b,4.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ23.00000°,λ98.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ86.00000°. M_o2.27000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=109.8.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=42.1.
IDC Error ellipse: s-maj=9.7km s-min=6.9km az=103.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=149.0. Recorded [4 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 14 54 01.3–.76**	**35.91N–.03**	**141.95E–.04**	**19–3**	**5.3b**	**852**	**1-154**
IDC	III	11 14 53 58.7–.38	35.93N	141.94E	0	5.0,5.0		**¶17193953**
JMA	III	11 14 53 58.2–.40	36.01N	142.14E	13	5.4,5.0		
NEIC	III	11 14 53 59.7–2.4	35.97N	141.90E	9–14	5.3b,5.0		
ISCJB	III	11 14 54 01.0–.75	35.95N–.02	141.94E–.02	23–5	5.6s,5.2b		
MOS	III	11 14 54 01.0–1.2	35.97N	141.96E	26	5.5b,5.2b		
BJI	III	11 14 54 02.3	35.97N	141.64E	25	5.6b,5.6s		

ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=9.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=133.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=157.2.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=111.1.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 14 56 14.9–.62**	**36.00N–.03**	**141.52E–.03**	**28–4**	**5.7b,5.6s**	**1393**	**1-161**
NIED	III	11 14 56 00	36.10N	141.60E	26	5.6W,5.6s		**¶16304999**
IDC	III	11 14 56 10.8–.32	36.02N	141.44E	0	5.5b,5.5		
NEIC	III	11 14 56 11.9–2.0	35.96N	141.40E	10–12	5.8b,5.5		
ISCJB	III	11 14 56 12.7–.63	35.95N–.02	141.54E–.02	21–4	5.7b,5.6s		
BJI	III	11 14 56 13.0	35.97N	141.38E	24	5.7s,5.6b		
JMA	III	11 14 56 13.8–.20	35.97N	141.57E	31–4	5.8,5.6b		
MOS	III	11 14 56 13.1–1.2	36.05N	141.58E	24	6.0b,5.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ30.00000°,λ-84.00000°. NP2:ϕ_s86.00000°,δ60.00000°,λ-93.00000°. M_o2.72000×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=9.2km az=97.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=165.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=3.7km az=105.2.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 07 40.7–.37**	**36.35N–.03**	**141.60E–.05**	**21–3**	**5.4b**	**865**	**1-158**
BJI	III	11 15 07 39.4	36.50N	141.70E	30	5.2b,5.2s		**¶16425239**
NEIC	III	11 15 07 39.5–2.0	36.33N	141.54E	15–12	5.5b,5.2s		
ISCJB	III	11 15 07 40.4–.68	36.36N–.02	141.58E–.02	29–4	5.3b,5.2s		
JMA	III	11 15 07 41.5–.20	36.38N	141.53E	41–4	5.4,5.2s		
MOS	III	11 15 07 41.1–1.1	36.40N	141.57E	34	5.6b,5.2s		
IDC	III	11 15 07 43.5–2.3	36.37N	141.52E	38–20	5.0,4.8		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.1km az=177.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.6km az=110.5.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=102.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 10 25.2–.54**	**35.97N–.06**	**141.45E–.07**	**26**	**4.3b**	**49**	**1-152**
IDC	III	11 15 10 21.6–.60	35.99N	141.40E	0	5.7,5.7s		**¶16425240**
ISCJB	III	11 15 10 23.2–.36	35.96N–.04	141.60E–.06	26	5.7s,4.4b		
JMA	III	11 15 10 25.9–.20	36.02N	141.49E	28–3	3.9,4.4b		
NEIC	III	11 15 10 26.4–.30	35.97N	141.45E	35	4.8b,4.4b		

ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=15.1km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.8km az=30.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=111.0. Recorded [2 JMA] in Gifu and Nagano.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 13 14.5–.38**	**36.00N–.03**	**141.88E–.03**	**19–1**	**6.3s,6.2b**	**2169**	**1-161**
NIED	III	11 15 13 00	36.00N	142.00E	11	6.1W,6.2b		**¶16305002**
IDC	III	11 15 13 11.6–.28	35.98N	141.86E	0	6.2,6.2s		
JMA	III	11 15 13 12.4–.30	36.05N	142.00E	23–5	6.7,6.2s		
ISCJB	III	11 15 13 13.9–.06	35.96N–.01	141.91E–.01	25	6.3s,6.1b		
BJI	III	11 15 13 13.2	36.05N	141.59E	20	6.7s,6.5b		
NEIC	III	11 15 13 14.7–.08	35.99N	141.81E	21	6.3W,6.3s		
MOS	III	11 15 13 14.1–1.0	36.07N	141.88E	25	6.5s,6.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ33.00000°,λ158.00000°. NP2:ϕ_s196.00000°,δ78.00000°,λ59.00000°. M_o1.72000×10^{18}
IDC Error ellipse: s-maj=9.9km s-min=7.4km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.4km az=160.7.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=144.0. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s39 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.39 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$0.59 $M_{r\theta}$0.73 $M_{\theta\phi}$-2.57 $M_{\phi r}$-3.00 Best double couple: NP1:ϕ_s91.00000°,δ39.00000°,λ-176.00000°. NP2:ϕ_s358.00000°,δ87.00000°,λ-51.00000°. Principal axes: T 4.4600,Plg31.0000°,Azm56.0000° ; N -1.0000,Plg39.0000°,Azm175.0000°; P -3.4600,Plg36.0000°,Azm301.0000° M_o4.00000×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=108.6.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 19 37.4–.66**	**36.24N–.03**	**141.92E–.04**	**29–4**	**5.5b**	**1112**	**1-158**
IDC	III	11 15 19 33.2–.34	36.28N	141.98E	0	5.3,5.3		**¶17193959**
BJI	III	11 15 19 34.6	36.18N	141.73E	16	6.0b,5.8		
JMA	III	11 15 19 34.7–.30	36.32N	142.06E	18	5.7,5.8		
MOS	III	11 15 19 36.6–.94	36.40N	141.91E	29	5.8b,5.8		
ISCJB	III	11 15 19 37.3–.39	36.25N–.02	141.91E–.02	38–3	6.1s,5.5b		
NEIC	III	11 15 19 38.3–.13	36.25N	141.86E	35	5.5b,5.5b		

ISC Event type se.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=147.9.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=145.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Saitama.

(229) Off east coast of Honshu

ISC	**III**	**11 15 20 04.0–.25**	**36.37N–.04**	**141.96E–.04**	**19**	**5.9b**	**360**	**1-161**
IDC	III	11 15 20 00.7–.34	36.32N	142.01E	0	5.7,5.7		**¶16461336**
ISCJB	III	11 15 20 02.6–.16	36.40N–.03	141.95E–.04	19	5.8b,5.7		
JMA	III	11 15 20 04.9–.50	36.42N	141.91E	0	6.3,5.7		
NEIC	III	11 15 20 08.2–.82	36.40N	141.86E	53–7	6.0b,5.7		

ISC Event type se.
IDC Error ellipse: s-maj=11.2km s-min=9.4km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=140.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=94.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 22 26.2–.46**	**35.73N–.06**	**141.64E–.07**	**26**	**5.1b**	**56**	**1-154**
IDC	III	11 15 22 22.3–.49	35.77N	141.68E	0	5.2,5.1		**¶16442216**
ISCJB	III	11 15 22 24.1–.35	35.70N–.04	141.76E–.06	26	5.1b,5.1		
JMA	III	11 15 22 24.4–.30	35.91N	141.77E	12–3	4.9,5.1		
NEIC	III	11 15 22 27.0–.38	35.64N	141.55E	35	5.5b,5.1		

ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.8km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.2km az=30.4.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.5km az=103.0.

(229) Off east coast of Honshu

ISC	**III**	**11 15 32 32.6–.49**	**37.19N–.04**	**142.25E–.04**	**23–3**	**5.1b**	**613**	**1-151**
IDC	III	11 15 32 29.2–.38	37.21N	142.24E	0	5.2s,5.2		**¶600539768**
ISCJB	III	11 15 32 30.9–.82	37.18N–.02	142.26E–.02	20–5	5.2s,5.1b		
JMA	III	11 15 32 31.6–.50	37.31N	142.17E	14–5	5.3,5.1b		
BJI	III	11 15 32 31.0	37.09N	142.06E	19	5.6,5.6b		
MOS	III	11 15 32 31.9–1.0	37.24N	142.27E	29	5.3b,5.6b		
NEIC	III	11 15 32 34.0–1.6	37.18N	142.25E	33–11	5.2b,5.6b		

ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=9.2km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=111.7.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=132.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 36 12.7–.34**	**38.84N–.04**	**142.81E–.05**	**16**	**4.9b**	**302**	**2-154**
IDC	III	11 15 36 11.0–.42	38.86N	142.80E	0	4.9,4.8		**¶16305005**
ISCJB	III	11 15 36 11.1–.18	38.76N–.03	142.90E–.03	16	5.9s,4.9b		
MOS	III	11 15 36 14.4–1.4	38.93N	142.79E	33	5.2b,4.9b		
JMA	III	11 15 36 14.1–.30	38.92N	142.71E	13–3	5.0,4.9b		
NEIC	III	11 15 36 15.3–.20	38.81N	142.71E	35	4.9b,4.9b		

ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.8km az=142.8.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=97.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.2km az=146.0. Recorded [2 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 15 42 03.8–.37**	**36.08N–.03**	**141.76E–.04**	**19–1**	**5.5b**	**509**	**1-154**

IDC	III	11 15 42 01.2–.42	36.08N	141.83E	0	5.0,4.9		¶600539776
JMA	III	11 15 42 02.8–.20	36.13N	141.90E	16–3	5.5,4.9		
NEIC	III	11 15 42 03.9–.61	36.02N	141.71E	17–3	5.4b,4.9		
BJI	III	11 15 42 03.2	35.97N	141.51E	21	5.9b,5.8s		
ISCJB	III	11 15 42 04.4–.86	36.05N–.02	141.74E–.03	30–5	5.6s,5.3b		
MOS	III	11 15 42 07.1–1.1	36.51N	141.65E	33	5.7b,5.3b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=11.9km s-min=10.2km az=115.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
NEIC	Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=138.0. Recorded [3 JMA] in Ibaraki.							
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=3.3km az=27.3.							
MOS	Error ellipse: s-maj=7.6km s-min=5.0km az=116.3.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 15 55 24.7–1.9**	**36.62N–.04**	**141.96E–.05**	**29–13**	**4.7b**	**143 1-147**	
BJI	III	11 15 55 20.4	36.61N	142.38E	35	5.5b,5.3		¶17193973
NEIC	III	11 15 55 22.1–.91	36.66N	141.94E	11–5	4.9b,5.3		
ISCJB	III	11 15 55 23.7–.25	36.61N–.03	141.98E–.03	33	4.7b,5.3		
JMA	III	11 15 55 25.9–.20	36.70N	141.82E	44–5	4.7,5.3		
IDC	III	11 15 55 28.3–2.2	36.65N	141.78E	54–20	4.5,4.3		
ISC	Event type se.							
NEIC	Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=144.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=161.2.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
IDC	Error ellipse: s-maj=14.4km s-min=12.3km az=92.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 16 01 59.7–.65**	**36.53N–.05**	**144.11E–.06**	**27–3**	**5.1b**	**298 3-145**	
IDC	III	11 16 01 55.1–.57	36.39N	144.24E	0	4.8,4.8s		¶16313885
MOS	III	11 16 01 59.8–1.8	36.62N	143.93E	33	5.6b,4.8s		
ISCJB	III	11 16 01 60.0–.24	36.56N–.04	144.14E–.04	35	5.0b,4.8s		
NEIC	III	11 16 02 01.3–.32	36.58N	144.07E	35	5.4b,4.8s		
JMA	III	11 16 02 03.5–.60	36.52N	143.94E	69	5.1,4.8s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=15.5km s-min=11.5km az=154.0.							
MOS	Error ellipse: s-maj=8.6km s-min=5.1km az=113.5.							
ISCJB	Event type se. Error ellipse: s-maj=6.0km s-min=4.2km az=152.4.							
NEIC	Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=155.0.							
JMA	Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 16 04 52.4–.41**	**39.34N–.05**	**144.43E–.05**	**27–2**	**5.4s,5.2b**	**698 3-158**	
BJI	III	11 16 04 51.5	39.20N	144.30E	26	5.9b,5.6s		¶17193981
MOS	III	11 16 04 52.1–1.2	39.36N	144.48E	33	5.3b,5.6s		
ISCJB	III	11 16 04 52.1–.16	39.34N–.04	144.34E–.03	32	5.4s,5.1b		
NEIC	III	11 16 04 53.3–.18	39.26N	144.41E	35	5.3b,5.1b		
IDC	III	11 16 04 53.3–5.2	39.22N	144.42E	33–38	5.0,4.9		
ISC	Event type se.							
MOS	Error ellipse: s-maj=8.9km s-min=5.4km az=92.0.							
ISCJB	Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=173.6.							
NEIC	Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=150.0. Recorded [3 JMA] in Fukushima and Ibaraki.							
IDC	Error ellipse: s-maj=14.2km s-min=11.6km az=128.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 16 11 25.9–.54**	**39.42N–.03**	**143.66E–.04**	**10–3**	**5.5s,5.5b**	**1042 3-154**	
BJI	III	11 16 11 23.0	39.57N	143.66E	11	6.0b,5.7s		¶602653545
JMA	III	11 16 11 23.8–.40	39.57N	143.60E	2–4	5.8,5.7s		
IDC	III	11 16 11 24.8–.37	39.50N	143.56E	0	5.2s,5.2		
ISCJB	III	11 16 11 26.1–.09	39.48N–.02	143.51E–.02	16	5.6s,5.3b		
MOS	III	11 16 11 28.5–1.3	39.59N	143.50E	31	5.8s,5.7b		
NEIC	III	11 16 11 30.0–.12	39.46N	143.47E	35	5.5b,5.7b		
ISC	Event type ke.							
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.							
IDC	Error ellipse: s-maj=10.8km s-min=8.9km az=115.0.							
ISCJB	Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=152.5.							
MOS	Error ellipse: s-maj=5.9km s-min=3.9km az=93.7.							
NEIC	Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=144.0. Recorded [2 JMA] in Iwate, Miyagi and Yamagata.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 16 20 50.4–.35**	**36.24N–.04**	**141.96E–.04**	**21–3**	**5.0b**	**435 1-148**	
BJI	III	11 16 20 48.7	36.17N	141.68E	12	5.6b,5.3s		¶16305012
ISCJB	III	11 16 20 49.8–1.1	36.18N–.02	141.95E–.03	26–7	5.0s,4.9b		
JMA	III	11 16 20 49.7–.30	36.26N	142.04E	25	4.9,4.9b		
MOS	III	11 16 20 50.5–1.1	36.18N	141.94E	32	5.2b,4.9b		
IDC	III	11 16 20 52.4–4.0	36.18N	141.98E	32–30	4.8,4.7		
NEIC	III	11 16 20 52.8–.61	36.18N	141.91E	36–5	4.9b,4.7		
ISC	Event type se.							
ISCJB	Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=140.2.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
MOS	Error ellipse: s-maj=7.2km s-min=5.1km az=110.8.							
IDC	Error ellipse: s-maj=11.7km s-min=8.4km az=95.0.							
NEIC	Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=135.0. Recorded [2 JMA] in Chiba and Ibaraki.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 16 34 17.2–.35**	**39.59N–.05**	**143.56E–.04**	**11**	**5.0b**	**640 2-154**	
ISCJB	III	11 16 34 17.0–.15	39.77N–.03	143.42E–.02	11	4.9b,4.8s		¶16305013
BJI	III	11 16 34 17.6	39.52N	143.54E	31	5.6b,5.3s		
JMA	III	11 16 34 17.2–.50	39.36N	143.47E	13	4.9,5.3s		
MOS	III	11 16 34 19.1–1.0	39.74N	143.45E	29	5.2b,5.3s		
NEIC	III	11 16 34 21.0–.20	39.62N	143.38E	35	5.0b,5.3s		
IDC	III	11 16 34 23.2–2.3	39.57N	143.40E	52–20	4.8,4.7		
ISC	Event type se.							
ISCJB	Event type fe. Error ellipse: s-maj=4.7km s-min=2.5km az=162.4.							
JMA	Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=-1.0.							
MOS	Error ellipse: s-maj=6.8km s-min=4.6km az=96.5.							
NEIC	Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=161.0.							
IDC	Error ellipse: s-maj=13.0km s-min=9.9km az=147.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 17 12 36.2–2.6**	**37.50N–.06**	**144.16E–.05**	**2–15**	**5.0b**	**468 5-153**	
IDC	III	11 17 12 36.1–.39	37.52N	144.16E	0	4.9,4.8		¶16308447
ISCJB	III	11 17 12 36.4–.16	37.52N–.03	144.09E–.03	10	4.9b,4.8		
BJI	III	11 17 12 37.3	37.77N	144.07E	14	5.5b,5.4s		
NEIC	III	11 17 12 37.5–.13	37.47N	144.09E	10	5.0b,5.4s		
MOS	III	11 17 12 39.9–.88	37.59N	144.07E	33	5.2b,5.4s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=11.5km s-min=10.2km az=119.0.							
ISCJB	Event type se. Error ellipse: s-maj=4.9km s-min=2.7km az=163.4.							
NEIC	Event type se. Error ellipse: s-maj=3.9km s-min=2.5km az=153.0.							
MOS	Error ellipse: s-maj=6.9km s-min=4.9km az=104.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 17 16 60.0–.28**	**37.12N–.04**	**144.15E–.04**	**35**	**5.7s,5.4b**	**664 5-159**	
IDC	III	11 17 16 54.4–.39	36.94N	144.26E	0	5.1,5.1s		¶16305064
NEIC	III	11 17 16 56.2–1.7	37.00N	144.16E	9–10	5.6s,5.5b		
ISCJB	III	11 17 16 58.7–.13	37.08N–.03	144.11E–.02	33	5.7s,5.3b		
MOS	III	11 17 16 59.5–.98	37.27N	144.08E	34	5.6b,5.6s		
BJI	III	11 17 17 00.8	37.27N	143.63E	25	6.1s,5.8		
ISC	Event type se.							
IDC	Error ellipse: s-maj=11.7km s-min=10.0km az=108.0.							
NEIC	Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=143.0.							
ISCJB	Event type se. Error ellipse: s-maj=4.1km s-min=2.2km az=161.6.							
MOS	Error ellipse: s-maj=6.6km s-min=4.6km az=104.3.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 17 17 25.9–.96**	**35.34N–.03**	**141.66E–.04**	**14–5**	**5.4s,5.4b**	**476 1-161**	
NIED	III	11 17 17 00	35.40N	142.00E	23	5.9W,5.4b		¶600539942
NEIC	III	11 17 17 23.6–.46	35.33N	141.39E	2–2	5.9W,5.4b		
JMA	III	11 17 17 23.6–.50	35.40N	142.03E	22	6.1,5.4b		
ISCJB	III	11 17 17 23.9–.14	35.31N–.02	141.54E–.03	10	5.5s,5.4b		
IDC	III	11 17 17 24.6–.50	35.30N	141.75E	0	5.3,5.3s		
MOS	III	11 17 17 28.7–.95	35.52N	141.53E	39	5.7b,5.3s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ80.00000°,λ6.00000°. NP2:ϕ_s59.00000°,δ84.00000°,λ170.00000°. $M_0$6.69000×10^{17}							
NEIC	Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=149.0.							
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=135.7.							
IDC	Error ellipse: s-maj=14.7km s-min=12.5km az=131.0.							
MOS	Error ellipse: s-maj=8.8km s-min=5.6km az=105.1.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 17 23 53.7–.30**	**36.00N–.04**	**141.81E–.04**	**10**	**5.0b**	**355 1-158**	
ISCJB	III	11 17 23 52.7–.15	35.97N–.03	141.86E–.02	10	4.9b		¶16476543
IDC	III	11 17 23 52.8–.39	36.06N	141.92E	0	4.9,4.8		
BJI	III	11 17 23 54.0	36.04N	141.89E	26	5.8b,5.5s		
MOS	III	11 17 23 55.5–.94	36.05N	141.82E	28	5.3b,5.5s		
JMA	III	11 17 23 55.5–.20	36.12N	141.92E	32	5.2,5.5s		
NEIC	III	11 17 23 55.2–1.9	36.00N	141.81E	16–11	5.0b,5.5s		
ISC	Event type se.							
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=174.4.							
IDC	Error ellipse: s-maj=13.8km s-min=10.5km az=107.0.							
MOS	Error ellipse: s-maj=7.7km s-min=5.9km az=111.9.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=136.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 17 32 12.5–.71**	**37.08N–.04**	**144.68E–.04**	**24–4**	**5.3b**	**897 3-152**	
IDC	III	11 17 32 08.8–.42	37.00N	144.72E	0	5.2,5.1		¶16310798
BJI	III	11 17 32 11.8	37.44N	144.60E	16	5.7b,5.5s		
NEIC	III	11 17 32 12.2–1.6	37.06N	144.63E	19–9	5.4b,5.5s		
MOS	III	11 17 32 12.1–.79	37.20N	144.63E	26	6.2s,5.5b		
ISCJB	III	11 17 32 12.8–.13	37.13N–.03	144.60E–.02	33	5.9s,5.2b		
JMA	III	11 17 32 14.4–.30	37.07N	144.39E	43	5.8,5.2b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=12.2km s-min=10.1km az=137.0.							
NEIC	Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=147.0.							
MOS	Error ellipse: s-maj=6.4km s-min=4.3km az=106.7.							
ISCJB	Event type fe. Error ellipse: s-maj=4.3km s-min=1.8km az=172.1.							
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 17 50 01.4–.41**	**37.62N–.06**	**144.94E–.05**	**35**	**4.8b**	**299 3-149**	
BJI	III	11 17 49 56.5	37.60N	145.00E	26	5.6b,5.2s		¶17194017
IDC	III	11 17 49 56.2–.50	37.61N	145.03E	0	4.6,4.4		
JMA	III	11 17 49 59.3–.60	37.75N	144.78E	48	5.4,4.4		
NEIC	III	11 17 50 01.8–.15	37.66N	144.91E	35	5.0b,4.4		
ISCJB	III	11 17 50 01.2–.21	37.92N–.04	144.83E–.03	33	4.8b,4.4		
MOS	III	11 17 50 02.1–.92	38.05N	144.94E	35	5.1b,4.4		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=14.9km s-min=11.3km az=140.0.							
JMA	Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=4.6km s-min=2.6km az=160.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=3.0km az=167.7.							
MOS	Error ellipse: s-maj=9.0km s-min=5.3km az=97.0.							
	(229) Off east coast of Honshu							
ISC	**III**	**11 18 11 25.8–.50**	**37.18N–.03**	**142.16E–.03**	**25–3**	**5.9s,5.7b**	**1641 1-161**	
NIED	III	11 18 11 00	37.10N	142.00E	17	5.7W,5.7b		¶17194026
IDC	III	11 18 11 22.0–.28	37.20N	142.17E	0	5.4,5.4		
ISCJB	III	11 18 11 22.5–.70	37.17N–.02	142.15E–.01	12–4	5.9s,5.7b		
BJI	III	11 18 11 23.4	37.09N	141.81E	14	6.0,6.0b		
NEIC	III	11 18 11 24.7–1.4	37.20N	142.10E	16–8	5.7b,6.0b		
JMA	III	11 18 11 25.6–.50	37.17N	142.03E	26–5	6.0,6.0b		
MOS	III	11 18 11 26.1–.97	37.28N	142.13E	35	5.9b,5.9s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ15.00000°,λ-158.00000°. NP2:ϕ_s164.00000°,δ84.00000°,λ-76.00000°. $M_0$3.35000×10^{17}							
IDC	Error ellipse: s-maj=9.0km s-min=7.7km az=101.0.							
ISCJB	Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=159.5.							
NEIC	Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Miyagi, Saitama, Tochigi and Yamagata.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
MOS	Error ellipse: s-maj=5.8km s-min=3.7km az=103.9.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 18 17 05.1–.69**	**36.26N–.03**	**141.72E–.04**	**24–4**	**5.8b**	**1468 1-161**	
NIED	III	11 18 17 00	36.30N	141.50E	5	5.3W		¶17194028
IDC	III	11 18 17 01.0–.36	36.19N	141.75E	0	5.6,5.6		
BJI	III	11 18 17 02.8	36.19N	141.55E	17	5.8b,5.8s		
ISCJB	III	11 18 17 03.2–.72	36.21N–.02	141.72E–.02	22–4	5.8s,5.7b		
JMA	III	11 18 17 03.0–.30	36.26N	141.80E	16	5.7,5.7b		
MOS	III	11 18 17 05.1–.89	36.29N	141.67E	33	6.0b,5.7b		
NEIC	III	11 18 17 07.3–.53	36.22N	141.63E	40–4	5.8b,5.7b		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ40.00000°,λ44.00000°. NP2:ϕ_s65.00000°,δ64.00000°,λ121.00000°. $M_0$1.16000×10^{17}							
IDC	Error ellipse: s-maj=10.5km s-min=9.7km az=141.0.							
ISCJB	Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=154.8.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
MOS	Error ellipse: s-maj=5.8km s-min=3.9km az=110.4.							
NEIC	Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=133.0.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 18 44 07.8–.48**	**36.87N–.03**	**141.19E–.04**	**42–4**	**5.0b,4.8s**	**734 0-157**	
BJI	III	11 18 44 05.3	36.80N	141.44E	55	5.5b,5.1b		¶16442284
MOS	III	11 18 44 05.3–1.1	36.92N	141.03E	33	5.2b,5.1b		
ISCJB	III	11 18 44 07.8–.33	36.87N–.02	141.08E–.03	53–2	5.0b,4.8s		
JMA	III	11 18 44 08.0–.10	36.87N	141.15E	47–1	5.0,4.8s		
IDC	III	11 18 44 08.4–.54	36.85N	141.09E	50–5	4.8,4.6		
NEIC	III	11 18 44 09.2–.57	36.83N	141.02E	54–5	5.0b,4.6		
ISC	Event type se.							
MOS	Error ellipse: s-maj=7.3km s-min=4.5km az=97.7.							
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=137.1.							
JMA	Event type fe.							
IDC	Error ellipse: s-maj=10.0km s-min=7.8km az=97.0.							
NEIC	Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=132.0. Recorded [4 JMA] in Fukushima.							
	(227) Eastern Honshu							
ISC	**III**	**11 18 59 17.7–.34**	**37.00N–.02**	**138.54E–.02**	**15–1**	**6.2s,6.0b**	**1858 0-164**	
NIED	III	11 18 59 00	37.00N	138.60E	5	6.2W,6.0b		¶600540067
BJI	III	11 18 59 07.7	36.95N	139.42E	10	6.6s,6.4		
IDC	III	11 18 59 14.4–.29	37.00N	138.46E	0	6.3,6.3s		
ISCJB	III	11 18 59 15.9–.06	37.04N–.01	138.47E–.01	14	6.2s,5.9b		
JMA	III	11 18 59 15.6	36.99N	138.60E	8–2	6.7,5.9b		
NEIC	III	11 18 59 16.5–.75	37.01N	138.38E	9–4	6.2W,6.1s		
GCMT	III	11 18 59 16.5–.20	37.06N	138.60E	12	6.3W,6.1s		
MOS	III	11 18 59 17.7–1.1	37.05N	138.42E	30	6.2b,6.2s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ38.00000°,λ117.00000°. NP2:ϕ_s29.00000°,δ56.00000°,λ70.00000°. $M_0$2.13000×10^{18}							
IDC	Error ellipse: s-maj=10.9km s-min=6.8km az=95.0.							
ISCJB	Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=147.8.							
JMA	Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s253.00000° ,δ80.00000°,λ110.00000°. NP2:ϕ_s8.00000°,δ23.00000°,λ27.00000°. Principal axes: T Plg51.0000°,Azm186.0000°; N Plg20.0000°,Azm69.0000°; P Plg32.0000°,Azm326.0000°							
NEIC	Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=132.0. Recorded [6U JMA] in Nagano. Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}2.06 $M_{\theta\theta}$-1.52 $M_{\phi\phi}$-0.54 $M_{r\theta}$-0.29 $M_{\theta\phi}$-1.34 $M_{\phi r}$-0.19 Best double couple: NP1:ϕ_s236.00000°,δ49.00000° ,λ91.00000°. NP2:ϕ_s55.00000°,δ41.00000°,λ89.00000°. Principal axes: T 2.0900,Plg86.0000°,Azm152.0000°; N 0.4000,Plg1.0000°,Azm55.0000° ; P -2.4800,Plg4.0000°,Azm325.0000° $M_0$2.30000×10^{18}							
GCMT	Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s111,c212; Duration: 3s4 Moment tensor: Scale 10^{18}Nm; M_{rr}2.35±.07 $M_{\theta\theta}$-1.43±.06; $M_{\phi\phi}$-0.92±.06; $M_{r\theta}$-2.03±.20; $M_{\theta\phi}$-1.96±.05; $M_{\phi r}$-0.51±.22; Best double couple: NP1:ϕ_s247.00000° ,δ65.00000°,λ110.00000°. NP2:ϕ_s26.00000°,δ32.00000°,λ53.00000°. Principal axes: T 3.2620,Plg64.0000°,Azm192.0000°; N 0.4790,Plg18.0000°,Azm59.0000° ; P -3.7420,Plg18.0000°,Azm322.0000° $M_0$3.50200×10^{18}							
MOS	Error ellipse: s-maj=5.9km s-min=3.6km az=106.4.							
	(228) Near east coast of eastern Honshu							
ISC	**III**	**11 19 02 58.6–.35**	**39.33N–.03**	**143.00E–.03**	**24–2**	**6.2s,6.1b**	**1630 2-160**	
NIED	III	11 19 02 00	39.20N	143.30E	20	6.1W,6.1b		¶602653178

ISCJB III 11 19 02 55.0–.76 39.36N–.02 143.02E–.02 10–4 6.2s,6.0b
IDC III 11 19 02 54.6–.32 39.31N 142.86E 0 6.1s,6.0
BJI III 11 19 02 57.9 39.30N 142.70E 20 6.4,6.4s
JMA III 11 19 02 57.0–.30 39.35N 142.94E 9–3 6.3,6.4s
MOS III 11 19 02 58.6–1.1 39.38N 142.88E 32 6.3s,6.2b
GCMT III 11 19 02 59.2–.50 39.43N 143.01E 30–1 6.2W,6.2b
NEIC III 11 19 02 59.2–.35 39.34N 142.87E 27–2 6.2s,6.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ26.00000°,λ-64.00000°. NP2:ϕ_s245.00000°,δ67.00000°,λ-102.00000°. $M_0$1.77000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=150.0.
IDC Error ellipse: s-maj=11.0km s-min=8.9km az=96.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=102.2. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s97,c134; Duration: 3σ2 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.84±.22 $M_{\theta\theta}$2.25±.12; $M_{\phi\phi}$0.58±.12; $M_{r\theta}$0.70±.15; $M_{\theta\phi}$0.45±.06; $M_{\phi r}$1.07±.19; Best double couple: NP1:ϕ_s241.00000°,δ57.00000°,λ-104.00000°. NP2:ϕ_s86.00000°,δ36.00000°,λ-69.00000°. Principal axes:
T 2.5400,Plg11.0000°,Azm341.0000°; N 0.6580,Plg12.0000°,Azm249.0000°
; P -3.2040,Plg74.0000°,Azm112.0000° $M_0$2.87200×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=129.0. Recorded [4 JMA] in Iwate and Miyagi. Moment Tensor Solution. s37 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.14 $M_{\theta\theta}$0.78 $M_{\phi\phi}$0.36 $M_{r\theta}$0.41 $M_{\theta\phi}$0.49 $M_{\phi r}$0.67 Best double couple: NP1:ϕ_s68.00000°,δ30.00000°,λ-68.00000°. NP2:ϕ_s223.00000°,δ62.00000°,λ-102.00000°. Principal axes:
T 1.3200,Plg17.0000°,Azm322.0000°; N 0.0900,Plg11.0000°,Azm229.0000°
; P -1.4200,Plg70.0000°,Azm108.0000° $M_0$1.40000×10^{18}

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ISC III 11 19 08 41.6–.40 36.31N–.03 140.94E–.04 28–2 5.3b 272 0-155
NIED III 11 19 08 00 36.30N 140.90E 26 5.3W **¶602443428**
BJI III 11 19 08 36.5 36.20N 141.00E 18 5.5b
NEIC III 11 19 08 38.7–2.3 36.26N 140.88E 9–14 5.5b
ISCJB III 11 19 08 40.6–.55 36.29N–.02 140.95E–.03 31–3 5.1b
MOS III 11 19 08 41.0–1.1 36.43N 140.95E 30 5.7b
JMA III 11 19 08 41.0 36.29N 140.95E 35–1 5.2
IDC III 11 19 08 42.7–.51 36.27N 140.80E 32–3 4.9,4.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ8.00000°,λ-77.00000°. NP2:ϕ_s201.00000°,δ82.00000°,λ-92.00000°. $M_0$8.64000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=135.0. Recorded [4 JMA] in Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.0km az=23.7.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=106.1.
JMA Event type fe.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=173.0.

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ISC III 11 19 24 29.2–.52 35.72N–.03 140.85E–.03 32–3 5.6b 1282 0-158
NIED III 11 19 24 00 35.80N 141.00E 38 5.8W **¶602653105**
BJI III 11 19 24 22.7 35.65N 141.19E 25 5.8s,5.7
NEIC III 11 19 24 24.5–1.3 35.69N 140.66E 2–8 5.5b,5.7
IDC III 11 19 24 24.1–.34 35.70N 140.85E 0 5.8,5.7s
ISCJB III 11 19 24 27.5–.08 35.63N–.02 140.75E–.02 33 5.8s,5.5b
MOS III 11 19 24 27.6–.92 35.74N 140.71E 31 5.8b,5.5b
JMA III 11 19 24 28.1–.10 35.76N 141.04E 35–1 5.7,5.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ12.00000°,λ128.00000°. NP2:ϕ_s16.00000°,δ80.00000°,λ82.00000°. $M_0$6.56000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=139.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=10.8km s-min=9.6km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=147.9.
MOS Error ellipse: s-maj=6.2km s-min=3.7km az=105.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

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ISC III 11 19 31 56.2–.48 36.94N–.02 138.51E–.03 15–2 5.4b 1065 0-158
NIED III 11 19 31 00 36.90N 138.60E 5 5.6W **¶17194054**
IDC III 11 19 31 54.1–.32 36.99N 138.39E 0 5.2s,5.2
ISCJB III 11 19 31 54.9–.46 36.93N–.02 138.41E–.02 15–3 6.1s,5.3b
BJI III 11 19 31 55.8 36.90N 138.30E 12 5.8s,5.6b
JMA III 11 19 31 55.6–.20 36.95N 138.57E 1–3 5.9,5.6b
MOS III 11 19 31 56.9–1.1 36.94N 138.37E 29 5.6b,5.6b
NEIC III 11 19 31 56.2–.71 36.94N 138.30E 12–4 5.7s,5.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ51.00000°,λ141.00000°. NP2:ϕ_s23.00000°,δ61.00000°,λ46.00000°. $M_0$2.63000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=140.1.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=125.0. Recorded [6L JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC III 11 19 45 21.4–.79 37.49N–.03 141.75E–.04 15–4 5.1b 754 1-155
IDC III 11 19 45 19.4–.40 37.50N 141.62E 0 6.0,6.0s **¶602652584**
NEIC III 11 19 45 21.8–1.9 37.56N 141.58E 12–12 5.2b,6.0s
BJI III 11 19 45 21.7 37.47N 141.60E 27 5.5b,5.3s
ISCJB III 11 19 45 22.6–.76 37.70N–.03 141.58E–.03 24–5 5.8s,5.0b
JMA III 11 19 45 22.4–.20 37.49N 141.67E 26–2 5.2,5.0b
MOS III 11 19 45 24.6–.90 37.87N 141.56E 33 5.3b,5.0b
ISC Event type ke.
IDC Error ellipse: s-maj=11.1km s-min=10.7km az=115.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=141.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.0km az=158.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.9km az=90.8.

(226) Near west coast of eastern Honshu

ISC III 11 19 46 50.1–.95 40.40N–.02 139.15E–.03 11–5 6.1s,6.1b 1459 1-164
NIED III 11 19 46 00 40.40N 139.10E 5 6.1W,6.1b **¶16476158**
JMA III 11 19 46 46.1–.30 40.39N 139.09E 4–3 6.4,6.1b
BJI III 11 19 46 48.7 40.30N 139.20E 20 6.5s,6.4
IDC III 11 19 46 49.1–.30 40.50N 139.18E 0 5.9,5.9s
ISCJB III 11 19 46 50.6–.07 40.51N–.01 139.16E–.02 21 6.2s,6.0b
GCMT III 11 19 46 50.9–.20 40.37N 139.09E 14–1 6.2W,6.0b
NEIC III 11 19 46 50.9–.10 40.48N 139.06E 10 6.2b,6.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ63.00000°,λ-12.00000°. NP2:ϕ_s26.00000°,δ79.00000°,λ-152.00000°. $M_0$1.60000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=9.4km s-min=7.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c70; s136,c265; Duration: 3σ1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.00±.05 $M_{\theta\theta}$1.92±.05; $M_{\phi\phi}$-1.92±.05; $M_{r\theta}$0.42±.12; $M_{\theta\phi}$1.48±.05; $M_{\phi r}$-0.47±.12; Best double couple: NP1:ϕ_s296.00000°,δ85.00000°,λ-13.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ-175.00000°. Principal axes:
T 2.4490,Plg6.0000°,Azm342.0000°; N 0.1050,Plg76.0000°,Azm96.0000°
; P -2.5570,Plg13.0000°,Azm251.0000° $M_0$2.50300×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=135.0. Felt at Goshogawara, Misawa, Nagano, Nakanojo and Yokosuka. Also felt at Sapporo, Hokkaido. Recorded [4 JMA] in Akita, Aomori and Nagano, Honshu.

(228) Near east coast of eastern Honshu

ISC III 11 20 11 23.5–.51 39.01N–.03 142.78E–.03 15–3 6.0s,6.0b 1810 2-161
NIED III 11 20 11 00 38.90N 142.80E 5 6.0W,6.0b **¶16308469**
BJI III 11 20 11 20.1 38.90N 142.70E 10 6.6b,6.3s
ISCJB III 11 20 11 21.3–.07 39.01N–.02 142.72E–.02 10 6.0s,5.9b
JMA III 11 20 11 21.3–.30 38.97N 142.76E 6–3 6.4,5.9b
GCMT III 11 20 11 24.1–.20 38.98N 142.68E 12 6.1W,5.9b
NEIC III 11 20 11 24.1–1.5 39.01N 142.63E 17–9 5.9b,5.8s
MOS III 11 20 11 25.4–.91 39.02N 142.65E 38 6.2s,6.1b
IDC III 11 20 11 28.1–1.5 39.02N 142.66E 48–14 5.9,5.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ41.00000°,λ-93.00000°. NP2:ϕ_s133.00000°,δ49.00000°,λ-87.00000°. $M_0$1.23000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.5km az=155.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c68; s127,c242; Duration: 2σ8 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.93±.04 $M_{\theta\theta}$1.08±.04; $M_{\phi\phi}$0.85±.04; $M_{r\theta}$0.41±.14; $M_{\theta\phi}$-0.73±.03; $M_{\phi r}$0.03±.16; Best double couple: NP1:ϕ_s303.00000°,δ50.00000°,λ-100.00000°. NP2:ϕ_s138.00000°,δ41.00000°,λ-79.00000°. Principal axes:
T 1.7240,Plg5.0000°,Azm40.0000°; N 0.2680,Plg7.0000°,Azm309.0000°
; P -1.9900,Plg81.0000°,Azm161.0000° $M_0$1.85700×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=132.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=5.5km s-min=3.7km az=100.1.
IDC Error ellipse: s-maj=10.1km s-min=6.7km az=93.0.

(229) Off east coast of Honshu

ISC III 11 20 15 21.5–.69 38.47N–.07 144.72E–.08 29 4.6b 40 3-144
IDC III 11 20 15 16.6–.99 38.40N 144.82E 0 5.8,5.8s **¶16451986**
NEIC III 11 20 15 18.2–.49 38.39N 144.86E 10 5.0b,5.8s
ISCJB III 11 20 15 19.6–.55 38.46N–.06 144.68E–.06 29 4.6b,5.8s
JMA III 11 20 15 19.7–.30 38.47N 144.70E 47 4.9,5.8s
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=21.3km az=160.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.1km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=152.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 20 23 44.3–.36 35.84N–.03 141.66E–.03 29–2 5.5b 1125 1-154
NIED III 11 20 23 00 36.00N 141.90E 11 5.1W **¶16308470**
NEIC III 11 20 23 41.3–1.6 35.81N 141.61E 8–10 5.7s,5.5b
BJI III 11 20 23 42.2 35.85N 141.41E 16 5.9s,5.7
MOS III 11 20 23 43.8–.85 35.92N 141.65E 33 5.6b,5.7
ISCJB III 11 20 23 43.0–.72 35.82N–.02 141.65E–.02 29–5 5.8s,5.4b
JMA III 11 20 23 43.1–.40 35.96N 141.66E 10–5 5.4,5.4b
IDC III 11 20 23 44.7–.35 35.85N 141.65E 28–2 5.2,5.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ43.00000°,λ60.00000°. NP2:ϕ_s43.00000°,δ53.00000°,λ115.00000°. $M_0$5.04000×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=133.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=146.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=9.4km s-min=8.1km az=101.0.

(229) Off east coast of Honshu

ISC III 11 20 26 20.3–.35 37.71N–.05 143.45E–.05 35 5.2b 286 2-145
NEIC III 11 20 26 16.7–2.7 37.68N 143.34E 6–16 5.4b **¶602652458**
IDC III 11 20 26 16.1–.52 37.71N 143.42E 0 5.0,4.9
MOS III 11 20 26 19.8–1.0 37.80N 143.37E 33 5.5b,4.9
ISCJB III 11 20 26 19.3–.22 37.66N–.04 143.34E–.03 33 5.2b,4.9
JMA III 11 20 26 52.2–.20 37.65N 141.62E 44–3 4.9,4.9
ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=134.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=12.7km az=129.0.
MOS Error ellipse: s-maj=8.3km s-min=5.5km az=107.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.5km az=161.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 20 34 41.6–.32 37.00N–.03 141.16E–.04 36–1 5.1b 520 0-155
NIED III 11 20 34 00 37.00N 141.20E 47 5.0W **¶600540284**
BJI III 11 20 34 34.1 36.86N 141.47E 20 5.5s,5.3
MOS III 11 20 34 40.7–.97 37.02N 141.14E 43 5.3b,5.3
JMA III 11 20 34 41.8–.10 36.95N 141.22E 49–1 5.1,5.3
NEIC III 11 20 34 42.0–.24 37.00N 141.12E 37–2 5.1b,5.3
IDC III 11 20 34 42.9–1.7 36.96N 141.11E 50–16 5.0,4.7
ISCJB III 11 20 34 42.6–.32 37.04N–.02 141.08E–.03 55–2 5.1s,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ14.00000°,λ29.00000°. NP2:ϕ_s43.00000°,δ84.00000°,λ102.00000°. $M_0$4.07000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Nagano, Tochigi and Tokyo.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC III 11 20 36 08.6–.47 37.89N–.03 142.92E–.03 17–2 5.5s,5.5b 993 2-159
ISCJB III 11 20 36 04.6–1.2 37.83N–.02 142.89E–.02 1–7 5.5b,5.4s **¶16308473**
IDC III 11 20 36 06.0–.36 37.82N 142.91E 0 5.3,5.2
BJI III 11 20 36 07.7 37.89N 142.93E 30 5.8b,5.7s
JMA III 11 20 36 09.0–.40 37.80N 142.73E 4 5.6,5.7s
NEIC III 11 20 36 10.3–1.2 37.83N 142.83E 26–8 5.5b,5.7s
MOS III 11 20 36 10.2–.94 37.97N 142.85E 33 5.6b,5.3s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.1.
IDC Error ellipse: s-maj=11.8km s-min=9.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.5km az=131.0.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=104.9.

(228) Near east coast of eastern Honshu

ISC III 11 21 00 44.4–.46 39.10N–.04 142.56E–.04 19–1 5.3b,5.3s 836 2-165
IDC III 11 21 00 40.9–.56 39.00N 142.65E 0 5.0,4.9 **¶602652360**
JMA III 11 21 00 41.5–.30 39.02N 142.70E 12–2 5.5,4.9
BJI III 11 21 00 41.0 38.95N 142.79E 24 5.8b,5.4s
NEIC III 11 21 00 44.0–.68 39.00N 142.48E 17–4 5.4b,5.3s
ISCJB III 11 21 00 45.1–.10 39.07N–.02 142.56E–.02 33 5.3s,5.2b
MOS III 11 21 00 45.3–1.1 39.07N 142.49E 36 5.5b,5.2s
ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=12.0km az=154.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=146.0. Recorded [3 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=152.3.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=104.5.

(229) Off east coast of Honshu

ISC III 11 21 41 58.8–.82 37.28N–.04 142.43E–.04 20–3 5.3b,5.2s 1001 1-164
NIED III 11 21 41 00 37.20N 142.50E 8 5.4W,5.2s **¶17194115**
BJI III 11 21 41 54.2 37.26N 142.34E 8 5.7b,5.5s
JMA III 11 21 41 54.6–.30 37.28N 142.53E 2 5.6,5.5s
IDC III 11 21 41 55.2–.44 37.22N 142.43E 0 5.1,5.1b
ISCJB III 11 21 41 55.0–.74 37.25N–.02 142.44E–.02 5–4 5.2b,5.2s
MOS III 11 21 42 00.9–.98 37.58N 142.32E 36 5.6b,5.2s
NEIC III 11 21 42 00.1–1.2 37.26N 142.30E 28–8 5.2b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ30.00000°,λ-174.00000°. NP2:ϕ_s39.00000°,δ87.00000°,λ-60.00000°. $M_0$1.48000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.1km s-min=10.0km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=161.0.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=104.4.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=148.0.

(229) Off east coast of Honshu

ISC III 11 22 51 17.9–.40 37.92N–.03 144.90E–.03 26–2 5.7b,5.1s 1454 3-162
NIED III 11 22 51 00 37.80N 144.60E 35 5.5W,5.1s **¶602652182**
ISCJB III 11 22 51 14.8–.76 37.88N–.02 144.92E–.02 15–5 5.6b,5.1s
MOS III 11 22 51 17.3–.92 37.90N 144.87E 30 5.8b,5.0s
BJI III 11 22 51 18.9 38.11N 144.52E 25 5.6b,5.4s
JMA III 11 22 51 19.4–.30 37.94N 144.64E 35 5.7,5.4s
NEIC III 11 22 51 19.9–.56 37.83N 144.83E 39–5 5.7b,5.4s
IDC III 11 22 51 19.1–3.3 37.82N 144.93E 33–25 5.1,4.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s269.00000°,δ75.00000°,λ-4.00000°. NP2:ϕ_s0.00000°,δ87.00000°,λ-165.00000°. $M_0$1.80000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=159.9.
MOS Error ellipse: s-maj=5.7km s-min=4.1km az=104.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=136.0.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=104.0.

(229) Off east coast of Honshu

ISC	**III**	**11 22 54 26.4–.32**	**36.57N–.04**	**142.29E–.04**	**15**	**5.3b,5.3s**	**324**	**1-146**
NIED	III	11 22 54 00	36.50N	142.50E	8	5.1W,5.3s		**¶600540496**
IDC	III	11 22 54 23.9–.47	36.50N	142.42E	0	5.1,5.0		
JMA	III	11 22 54 25.0–.30	36.49N	142.54E	68	5.3,5.0		
ISCJB	III	11 22 54 25.1–.17	36.48N–.03	142.38E–.02	15	5.3s,5.2b		
NEIC	III	11 22 54 27.5–1.6	36.49N	142.31E	20–11	5.4b,5.2b		
MOS	III	11 22 54 28.4–.87	36.67N	142.31E	33	5.6b,5.2b		
BJI	III	11 22 54 29.3	36.58N	141.63E	20	5.5b,5.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ28.00000°,λ106.00000°. NP2:ϕ_s2.00000°,δ63.00000°,λ82.00000°. $M_0$4.41000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=11.8km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=161.5.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=121.0.
MOS Error ellipse: s-maj=8.8km s-min=6.0km az=106.6.

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ISC	**III**	**11 23 26 50.4–.56**	**39.08N–.03**	**142.81E–.03**	**33–3**	**5.2b,4.8s**	**834**	**2-165**
NIED	III	11 23 26 00	38.90N	142.90E	8	5.2W,4.8s		**¶17194159**
IDC	III	11 23 26 45.1–.35	39.02N	142.63E	0	4.9,4.9		
BJI	III	11 23 26 46.4	39.17N	143.04E	28	5.5b,5.1s		
JMA	III	11 23 26 46.7–.30	39.01N	142.69E	13–3	5.3,5.1s		
ISCJB	III	11 23 26 47.5–.85	39.13N–.02	142.70E–.02	19–5	5.1b,4.8s		
MOS	III	11 23 26 48.5–1.1	39.07N	142.59E	31	5.4b,4.6s		
NEIC	III	11 23 26 49.7–.65	39.05N	142.62E	24–4	5.3b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ42.00000°,λ-102.00000°. NP2:ϕ_s129.00000°,δ49.00000°,λ-80.00000°. $M_0$6.89000×10^{16}
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=145.8.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=87.8.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=137.0.

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ISC	**III**	**11 23 58 03.2–.33**	**38.47N–.04**	**143.58E–.04**	**32–2**	**5.2b,5.1s**	**873**	**2-164**
IDC	III	11 23 57 57.9–.41	38.32N	143.65E	0	4.8,4.8		**¶16310140**
ISCJB	III	11 23 57 59.4–1.1	38.45N–.03	143.58E–.02	15–7	5.1s,5.1b		
MOS	III	11 23 58 01.3–1.1	38.43N	143.54E	29	5.6b,5.0s		
BJI	III	11 23 58 01.5	38.55N	143.33E	19	5.6s,5.4		
NEIC	III	11 23 58 03.4–.30	38.40N	143.53E	31–1	5.3b,5.1s		
JMA	III	11 23 58 03.6–.40	38.52N	143.43E	57	4.8,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=10.3km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.9km az=159.7.
MOS Error ellipse: s-maj=7.6km s-min=5.6km az=86.4.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=152.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 23 59 20.6–.39**	**36.52N–.03**	**141.52E–.03**	**22–2**	**5.3b,5.1s**	**497**	**1-155**
NIED	III	11 23 59 00	36.50N	141.50E	5	5.4W,5.1s		**¶16310141**
IDC	III	11 23 59 16.7–.43	36.51N	141.64E	0	5.4L,5.0		
BJI	III	11 23 59 18.7	36.33N	141.55E	26	5.6s,5.5b		
ISCJB	III	11 23 59 19.6–.62	36.47N–.02	141.60E–.02	27–4	5.2b,5.1s		
MOS	III	11 23 59 20.4–.99	36.50N	141.59E	33	5.5b,5.2s		
JMA	III	11 23 59 21.3–.30	36.50N	141.48E	28–5	5.5,5.2s		
NEIC	III	11 23 59 21.1–.19	36.53N	141.51E	22–1	5.4b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ24.00000°,λ64.00000°. NP2:ϕ_s2.00000°,δ69.00000°,λ101.00000°. $M_0$1.35000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=10.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=158.5.
MOS Error ellipse: s-maj=8.9km s-min=6.0km az=92.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=140.0. Recorded [3 JMA] in Fukushima.

(229) Off east coast of Honshu

ISC	**III**	**12 00 25 06.2–.36**	**37.71N–.04**	**141.99E–.04**	**25–2**	**5.0b,4.6s**	**759**	**1-155**
NIED	III	12 00 25 00	37.70N	142.00E	35	4.9W,4.6s		**¶17194182**
IDC	III	12 00 25 02.8–.42	37.76N	141.95E	0	4.9,4.8		
BJI	III	12 00 25 02.9	37.67N	142.16E	29	5.5b,5.1b		
JMA	III	12 00 25 05.2–.20	37.77N	141.98E	23–4	4.8,5.1b		
MOS	III	12 00 25 05.7–1.1	37.83N	142.03E	33	5.1b,5.1b		
ISCJB	III	12 00 25 06.4–.91	37.79N–.03	141.87E–.03	32–6	4.9b,4.8s		
NEIC	III	12 00 25 07.8–.35	37.76N	141.89E	31–2	5.0b,4.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ40.00000°,λ-110.00000°. NP2:ϕ_s180.00000°,δ53.00000°,λ-74.00000°. $M_0$2.17000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.4km az=92.4.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=155.2.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=143.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 00 45 08.7–.39**	**36.13N–.03**	**141.86E–.04**	**20–1**	**5.5b,5.2s**	**1028**	**1-165**
NIED	III	12 00 45 00	36.20N	142.00E	17	5.3W,5.2s		**¶602656899**
IDC	III	12 00 45 05.9–.33	36.14N	141.88E	0	5.1,5.0		
ISCJB	III	12 00 45 06.2–.94	36.16N–.02	141.77E–.02	10–5	5.4b,5.3s		
JMA	III	12 00 45 07.4–.30	36.16N	141.93E	20	5.6,5.3s		
MOS	III	12 00 45 08.8–.86	36.24N	141.87E	33	5.6b,5.1s		
BJI	III	12 00 45 09.1	36.14N	141.53E	24	5.4b,5.4s		
NEIC	III	12 00 45 09.2–.29	36.11N	141.77E	20–1	5.5b,5.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ56.00000°,λ-7.00000°. NP2:ϕ_s283.00000°,δ84.00000°,λ-146.00000°. $M_0$1.03000×10^{17}
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=6.1km az=113.3.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.2km az=141.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 17 01.2–.48**	**38.07N–.04**	**142.80E–.04**	**27–2**	**5.3b,4.8s**	**646**	**2-159**
BJI	III	12 01 16 58.5	38.09N	142.75E	24	5.3b,5.0b		**¶602656700**
JMA	III	12 01 16 58.9–.40	37.98N	142.90E	37	5.1,5.0b		
MOS	III	12 01 17 00.7–.90	38.21N	142.81E	33	5.5b,5.0b		
NEIC	III	12 01 17 00.7–1.0	38.05N	142.68E	21–7	5.4b,5.0b		
ISCJB	III	12 01 17 00.4–.14	38.10N–.03	142.66E–.02	29	5.2b,4.8s		
IDC	III	12 01 17 01.6–.63	38.03N	142.75E	28–3	5.0,5.0		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.7km az=91.7.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=142.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=161.9.
IDC Error ellipse: s-maj=11.7km s-min=9.2km az=146.0.

(173) Tonga Islands

ISC	**III**	**12 01 17 39.7–.80**	**16.73S–.06**	**172.89W–.05**	**30–5**	**5.2b**	**257**	**3-174**
IDC	III	12 01 17 35.4–.45	16.77S	173.23W	0	4.9,4.8		**¶16308504**
MOS	III	12 01 17 39.6–1.6	16.64S	173.11W	33	5.6b,4.8		
ISCJB	III	12 01 17 39.2–.20	16.72S–.04	172.95W–.05	33	5.2b,4.8		
BJI	III	12 01 17 40.1	16.22S	172.86W	30	6.1s,5.7b		
NEIC	III	12 01 17 41.1–.18	16.65S	173.22W	35	5.2b,5.7b		

ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=13.5km az=136.0.
MOS Error ellipse: s-maj=10.8km s-min=8.4km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=33.4.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.7km az=126.0.

(173) Tonga Islands

ISC	**III**	**12 01 19 08.6–.63**	**16.78S–.05**	**172.97W–.04**	**26–4**	**6.1s,5.7b**	**1265**	**3-174**
IDC	III	12 01 19 04.7–.36	16.81S	173.17W	0	5.9s,5.9		**¶16308505**
BJI	III	12 01 19 06.5	16.31S	172.96W	10	6.2s,6.0b		
NEIC	III	12 01 19 07.2–.13	16.72S	173.21W	14	6.0s,5.8W		
GCMT	III	12 01 19 07.2–.30	16.79S	172.77W	32–0	5.9W,5.8W		
ISCJB	III	12 01 19 08.6–.10	16.80S–.03	173.08W–.02	33	6.3s,5.6b		
MOS	III	12 01 19 10.0–1.4	16.57S	172.91W	35	6.0s,5.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=14.4km s-min=11.0km az=145.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=137.0. Felt at Neiafu. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}-7.05 $M_{\theta\theta}$3.65 $M_{\phi\phi}$3.40 $M_{r\theta}$0.54 $M_{\theta\phi}$2.92 $M_{\theta r}$2.42 Best double couple: NP1:ϕ_s55.00000°,δ37.00000°,λ-75.00000°. NP2:ϕ_s216.00000°,δ54.00000°,λ-101.00000°. Principal axes: T 6.7600,Plg9.0000°,Azm314.0000° ; N 0.8200,Plg9.0000°,Azm223.0000°; P -7.5800,Plg77.0000°,Azm88.0000° $M_0$7.20000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c92; s63,c93; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.01±.04 $M_{\theta\theta}$0.19±.03; $M_{\phi\phi}$0.82±.03; $M_{r\theta}$-0.11±.06; $M_{\theta\phi}$0.23±.02; $M_{\phi r}$0.07±.04; Best double couple: NP1:ϕ_s192.00000°,δ46.00000° ,λ-99.00000°. NP2:ϕ_s25.00000°,δ44.00000°,λ-81.00000°. Principal axes: T 0.8980,Plg1.0000°,Azm288.0000°; N 0.1240,Plg6.0000°,Azm198.0000° ; P -1.0240,Plg84.0000°,Azm26.0000° $M_0$0.96100×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.7km az=154.4.
MOS Error ellipse: s-maj=10.2km s-min=6.5km az=64.5.

(229) Off east coast of Honshu

ISC	**III**	**12 01 28 29.4–.64**	**39.8N–.10**	**143.33E–.09**	**6**	**4.6b**	**45**	**5-150**
ISCJB	III	12 01 28 27.7–.42	39.77N–.07	143.24E–.08	6	7.3s,4.5b		**¶16442319**
IDC	III	12 01 28 28.7–.70	39.81N	143.21E	0	4.5,4.3		
NEIC	III	12 01 28 31.5–3.5	39.80N	143.19E	18–22	4.7b,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=7.3km az=143.6.
IDC Error ellipse: s-maj=18.4km s-min=16.0km az=129.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=137.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 34 08.9–.40**	**38.79N–.03**	**142.96E–.03**	**19–1**	**5.9s,5.6b**	**1527**	**2-162**
NIED	III	12 01 34 00	38.60N	143.10E	5	5.6W,5.6b		**¶17194206**
ISCJB	III	12 01 34 05.8–.71	38.75N–.02	142.90E–.02	8–4	5.9s,5.5b		
IDC	III	12 01 34 05.6–.30	38.72N	142.93E	0	5.6,5.6s		
BJI	III	12 01 34 06.9	38.71N	142.80E	18	5.9s,5.8		
JMA	III	12 01 34 07.5–.30	38.83N	142.89E	0	6.2,5.8		
MOS	III	12 01 34 08.5–1.7	38.85N	143.00E	41	5.8b,5.8s		
GCMT	III	12 01 34 09.6–.50	38.81N	142.85E	20–1	5.8W,5.8s		
NEIC	III	12 01 34 09.6–.92	38.75N	142.83E	22–6	5.9s,5.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ38.00000°,λ-93.00000°. NP2:ϕ_s138.00000°,δ52.00000°,λ-88.00000°. $M_0$2.56000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=154.6.
IDC Error ellipse: s-maj=9.9km s-min=7.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=10.9km s-min=7.3km az=80.6.
GCMT Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c19; s68,c95; Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.09±.51 $M_{\theta\theta}$2.84±.29; $M_{\phi\phi}$3.25±.32; $M_{r\theta}$0.43±.74; $M_{\theta\phi}$-1.45±.14; $M_{\phi r}$1.23±.72; Best double couple: NP1:ϕ_s148.00000°,δ49.00000° ,λ-79.00000°. NP2:ϕ_s312.00000°,δ42.00000°,λ-102.00000°. Principal axes: T 4.5510,Plg4.0000°,Azm230.0000°; N 1.7400,Plg8.0000°,Azm321.0000° ; P -6.2910,Plg81.0000°,Azm116.0000° $M_0$5.42100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=133.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 35 27.3–.72**	**39.2N–.10**	**143.0E–.10**	**16**	**5.0b**	**31**	**3-142**
ISCJB	III	12 01 35 25.7–.50	39.18N–.09	142.95E–.09	16	5.9s,5.0b		**¶16442322**
IDC	III	12 01 35 25.3–.85	39.18N	142.97E	0	6.0,6.0s		
NEIC	III	12 01 35 29.9–5.0	39.16N	142.94E	35–36	5.3b,6.0s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=8.8km az=147.3.
IDC Error ellipse: s-maj=24.6km s-min=16.8km az=171.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.8km az=177.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 43 19.3–.40**	**36.28N–.03**	**141.74E–.04**	**28–2**	**5.1b**	**742**	**1-154**
NIED	III	12 01 43 00	36.40N	141.70E	23	4.9W		**¶602656684**
BJI	III	12 01 43 17.4	36.30N	141.80E	28	5.5s,5.4b		
ISCJB	III	12 01 43 19.3–.10	36.28N–.02	141.67E–.02	34	5.0b,5.4b		
NEIC	III	12 01 43 19.9–1.3	36.33N	141.56E	28–9	5.1b,5.4b		
MOS	III	12 01 43 19.2–.92	36.34N	141.57E	36	5.3b,5.4b		
JMA	III	12 01 43 19.3–.20	36.37N	141.68E	60–4	4.9,5.4b		
IDC	III	12 01 43 21.0–.64	36.37N	141.62E	38–5	6.3,6.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ37.00000°,λ-85.00000°. NP2:ϕ_s8.00000°,δ53.00000°,λ-94.00000°. $M_0$2.37000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=161.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=138.0.
MOS Error ellipse: s-maj=7.0km s-min=4.9km az=101.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=114.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 46 19.7–.44**	**37.35N–.04**	**141.91E–.04**	**28–2**	**5.1b**	**428**	**1-152**
BJI	III	12 01 46 17.1	37.29N	141.78E	16	6.3s,6.1		**¶602707122**
ISCJB	III	12 01 46 19.5–1.0	37.34N–.02	141.90E–.03	33–7	6.2s,5.2b		
NEIC	III	12 01 46 20.5–1.4	37.33N	141.75E	32–10	5.5b,5.2b		
MOS	III	12 01 46 20.4–.94	37.67N	141.74E	32	5.3b,5.2b		
JMA	III	12 01 46 20.9–.30	37.37N	141.83E	36–4	5.2,5.2b		
IDC	III	12 01 46 22.0–.63	37.35N	141.79E	45–5	4.8,4.6		

ISC Event type ke.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=149.8.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=128.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=95.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=10.7km s-min=9.2km az=124.0.

(229) Off east coast of Honshu

ISC	**III**	**12 01 47 16.2–.38**	**37.59N–.03**	**142.75E–.03**	**25–2**	**6.5s,6.1b**	**2183**	**2-160**
NIED	III	12 01 47 00	37.50N	142.80E	8	6.4W,6.1b		**¶602707301**
ISCJB	III	12 01 47 11.6–.66	37.61N–.02	142.75E–.01	4–4	6.6s,6.0b		
JMA	III	12 01 47 12.6–.30	37.48N	142.75E	0	6.8,6.0b		
IDC	III	12 01 47 12.1–.30	37.60N	142.76E	0	6.7,6.7s		
BJI	III	12 01 47 13.9	37.65N	142.65E	20	6.8s,6.7b		
MOS	III	12 01 47 14.3–1.4	37.67N	142.90E	33	6.7s,6.3b		
NEIC	III	12 01 47 15.4–.08	37.59N	142.65E	20	6.5W,6.5W		
GCMT	III	12 01 47 15.4–.10	37.57N	142.84E	14–0	6.5W,6.5W		
NEIC	III	12 01 47 16.0–.00	37.39N	143.28E	15	6.5W,6.5W		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ31.00000°,λ-127.00000°. NP2:ϕ_s52.00000°,δ65.00000°,λ-70.00000°. $M_0$4.74000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=158.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=10.0km s-min=8.2km az=96.0.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=92.5.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=143.0. Recorded [3 JMA] in Fukushima, Ibaraki, Iwate, Miyagi, Nagano and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s80 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.97 $M_{\theta\theta}$0.66 $M_{\phi\phi}$3.31 $M_{r\theta}$-3.47 $M_{\theta\phi}$1.64 $M_{\phi r}$-3.09 Best double couple: NP1:ϕ_s42.00000°,δ70.00000°,λ-78.00000°. NP2: ϕ_s191.00000°,δ23.00000°,λ-119.00000°. Principal axes: T 6.0300,Plg24.0000° ,Azm123.0000°; N 0.2400,Plg11.0000°,Azm218.0000°; P -6.2700,Plg63.0000° ,Azm331.0000° $M_0$6.20000×10^{18} Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ15.00000°,λ-90.00000°. NP2: ϕ_s45.00000°,δ75.00000°,λ-90.00000°. Principal axes: T Plg30.0000°,Azm135.0000° ; N Plg0.0000°,Azm0.0000°; P Plg60.0000°,Azm315.0000°

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s138,c298; s145,c388;Duration: 4s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.95±.04 $M_{\theta\theta}$1.21±.03; $M_{\phi\phi}$3.74±.03; $M_{r\theta}$-3.62±.10; $M_{\theta\phi}$2.37±.02; $M_{\phi r}$-2.70±.09; Best double couple: NP1:ϕ_s45.00000°,δ66.00000°,λ-78.00000°. NP2:ϕ_s197.00000° ,δ27.00000°,λ-116.00000°. Principal axes: T 6.7140,Plg20.0000°,Azm126.0000° ; N 0.1330,Plg11.0000°,Azm220.0000°; P -6.8470,Plg67.0000°,Azm338.0000° $M_0$6.78100×10^{18}

NEIC Event type se. Moment Tensor Solution. s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.72 $M_{\theta\theta}$2.40 $M_{\phi\phi}$3.33 $M_{r\theta}$-3.01 $M_{\theta\phi}$1.02 $M_{\phi r}$-2.20 Best double couple: NP1:ϕ_s45.00000° ,δ64.00000°,λ-83.00000°. NP2:ϕ_s211.00000°,δ27.00000°,λ-102.00000°. Principal axes: T 5.1500,Plg18.0000°,Azm130.0000°; N 1.8800,Plg5.0000°,Azm222.0000° ; P -7.0300,Plg70.0000°,Azm328.0000° $M_0$6.30000×10^{18}

(229) Off east coast of Honshu

ISC	**III**	**12 01 59 41.8–.69**	**37.49N–.04**	**142.95E–.04**	**20–2**	**5.2b**	**560**	**2-154**
IDC	III	12 01 59 38.6–.41	37.51N	143.03E	0	5.0,4.9		**¶17194219**
BJI	III	12 01 59 39.8	37.50N	142.99E	27	5.6s,5.5		
ISCJB	III	12 01 59 40.1–1.1	37.42N–.02	142.83E–.02	15–6	5.1s,5.1b		
MOS	III	12 01 59 42.1–1.2	37.43N	142.86E	32	5.3b,5.1b		
JMA	III	12 01 59 43.0–.30	37.43N	142.65E	19	5.5,5.1b		
NEIC	III	12 01 59 43.5–2.0	37.48N	142.80E	27–14	5.2b,5.1b		

ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=10.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=155.9.
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=114.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 02 34 03.7–.30**	**36.71N–.03**	**141.56E–.04**	**21–3**	**5.5s,5.2b**	**890**	**1-155**
NIED	III	12 02 34 00	36.70N	141.60E	11	5.0W,5.2b		**¶17194229**
BJI	III	12 02 34 00.7	36.54N	141.73E	25	5.7s,5.6		
MOS	III	12 02 34 04.0–.98	36.65N	141.51E	33	5.4b,5.6		
JMA	III	12 02 34 04.1–.20	36.74N	141.61E	46–3	5.2,5.6		
ISCJB	III	12 02 34 04.3–.65	36.67N–.02	141.49E–.02	32–4	5.5s,5.2b		
IDC	III	12 02 34 05.4–3.2	36.64N	141.59E	33–24	5.1s,5.1		
NEIC	III	12 02 34 05.0–1.2	36.67N	141.43E	27–8	5.2b,5.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ26.00000°,λ125.00000°. NP2:ϕ_s23.00000°,δ69.00000°,λ74.00000°. $M_0$3.98000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=100.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=143.1.
IDC Error ellipse: s-maj=10.3km s-min=9.0km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=130.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 02 43 09.9–.44**	**39.13N–.04**	**142.51E–.04**	**27–2**	**5.0b**	**418**	**2-155**
BJI	III	12 02 43 05.0	38.96N	142.69E	20	5.7s,5.6		**¶602656637**
ISCJB	III	12 02 43 09.9–1.2	39.14N–.03	142.34E–.03	33–8	5.4s,4.9b		
MOS	III	12 02 43 09.3–.86	39.15N	142.38E	31	5.2b,4.9b		
NEIC	III	12 02 43 10.1–1.2	39.10N	142.30E	25–8	5.0b,4.9b		
JMA	III	12 02 43 10.6–.10	39.20N	142.43E	28–3	4.9,4.9b		
IDC	III	12 02 43 11.7–.49	39.12N	142.37E	37–4	4.7,4.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=142.9.
MOS Error ellipse: s-maj=7.4km s-min=5.1km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=141.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.8km az=99.0.

(229) Off east coast of Honshu

ISC	**III**	**12 02 47 34.8–.37**	**37.66N–.03**	**143.68E–.03**	**24–2**	**5.8s,5.6b**	**1228**	**2-159**
NIED	III	12 02 47 00	37.50N	143.50E	32	5.8W,5.6b		**¶17194232**
BJI	III	12 02 47 30.5	37.60N	143.70E	16	6.1b,6.0s		
IDC	III	12 02 47 30.9–.33	37.56N	143.72E	0	5.6,5.6s		
NEIC	III	12 02 47 33.5–1.6	37.60N	143.61E	15–9	5.7b,5.6s		
ISCJB	III	12 02 47 33.9–.08	37.61N–.02	143.62E–.02	27	5.8s,5.6b		
GCMT	III	12 02 47 33.5–.20	37.63N	143.71E	15–0	5.9W,5.6b		
JMA	III	12 02 47 34.0–.30	37.59N	143.59E	40	5.9,5.6b		
MOS	III	12 02 47 34.8–.90	37.64N	143.60E	33	5.8b,5.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ75.00000°,λ171.00000°. NP2:ϕ_s62.00000°,δ81.00000°,λ16.00000°. $M_0$6.60000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=8.8km az=97.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.6km az=157.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c55; s138,c261; Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16±.02 $M_{\theta\theta}$-0.57±.01; $M_{\phi\phi}$0.73±.02; $M_{r\theta}$0.10±.05; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$0.30±.05; Best double couple: NP1:ϕ_s59.00000°,δ81.00000° ,λ15.00000°. NP2:ϕ_s327.00000°,δ75.00000°,λ171.00000°. Principal axes: T 0.9000,Plg16.0000°,Azm284.0000°; N -0.2470,Plg73.0000°,Azm88.0000° ; P -0.6530,Plg4.0000°,Azm192.0000° $M_0$0.77600×10^{18}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=4.2km az=105.4.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 03 01 46.9–.48**	**39.63N–.03**	**142.80E–.03**	**18–2**	**5.8b,5.5s**	**1721**	**2-159**
NIED	III	12 03 01 00	39.60N	142.90E	14	5.4W,5.5s		**¶16308520**
IDC	III	12 03 01 43.8–.31	39.49N	142.73E	0	5.6,5.6		
ISCJB	III	12 03 01 44.7–.74	39.59N–.02	142.72E–.02	10–4	5.7b,5.5s		
JMA	III	12 03 01 44.9–.20	39.57N	142.89E	11	5.6,5.5s		
BJI	III	12 03 01 44.1	39.47N	142.90E	24	5.8b,5.6b		
NEIC	III	12 03 01 47.4–1.3	39.55N	142.60E	20–7	5.8b,5.6b		
MOS	III	12 03 01 48.3–.96	39.76N	142.72E	34	6.0b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ44.00000°,λ-110.00000°. NP2:ϕ_s65.00000°,δ49.00000°,λ-72.00000°. $M_0$1.32000×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=8.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=142.0. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=91.3.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 03 11 59.6–.65**	**35.99N–.03**	**141.44E–.03**	**31–4**	**5.6b,5.5s**	**1543**	**1-161**
NIED	III	12 03 11 00	36.00N	141.60E	23	5.5W,5.5s		**¶16308521**
BJI	III	12 03 11 55.1	36.09N	141.50E	18	5.8b,5.5s		
MOS	III	12 03 11 57.9–1.4	36.12N	141.62E	32	5.9b,5.7s		
NEIC	III	12 03 11 57.8–1.3	35.95N	141.34E	17–8	5.7b,5.7s		
GCMT	III	12 03 11 57.8–.60	36.03N	141.54E	35–0	5.9W,5.7s		
JMA	III	12 03 11 58.3–.20	35.98N	141.61E	37–3	5.6,5.7s		
ISCJB	III	12 03 11 59.5–.38	35.96N–.02	141.44E–.02	39–3	5.6b,5.6s		
IDC	III	12 03 12 01.1–1.5	35.94N	141.44E	41–13	5.4,5.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ32.00000°,λ-98.00000°. NP2:ϕ_s83.00000°,δ58.00000°,λ-85.00000°. $M_0$1.68000×10^{17}
MOS Error ellipse: s-maj=8.6km s-min=5.6km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=137.0. Recorded [3 JMA] in Fukushima.
GCMT Error ellipse: s-maj=6.7km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s72,c89; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.09±.06 $M_{\theta\theta}$0.66±.03; $M_{\phi\phi}$0.42±.03; $M_{r\theta}$-0.07±.03; $M_{\theta\phi}$0.01±.01; $M_{\phi r}$-0.03±.04; Best double couple: NP1:ϕ_s88.00000°,δ47.00000° ,λ-91.00000°. NP2:ϕ_s270.00000°,δ43.00000°,λ-89.00000°. Principal axes: T 0.6650,Plg2.0000°,Azm179.0000°; N 0.4240,Plg1.0000°,Azm89.0000° ; P -1.0930,Plg88.0000°,Azm336.0000° $M_0$0.87900×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=160.4.
IDC Error ellipse: s-maj=9.9km s-min=7.2km az=91.0.

(229) Off east coast of Honshu

ISC	**III**	**12 03 29 28.4–.66**	**37.92N–.04**	**144.66E–.04**	**30–4**	**5.2b**	**802**	**3-153**
IDC	III	12 03 29 22.7–.44	37.71N	144.79E	0	5.0,4.9		**¶16308523**
JMA	III	12 03 29 25.9–.30	37.97N	144.48E	48	5.1,4.9		
BJI	III	12 03 29 25.5	38.06N	144.59E	15	5.5b,5.3s		
MOS	III	12 03 29 26.9–.80	37.91N	144.67E	33	5.4b,5.3s		
NEIC	III	12 03 29 27.8–1.4	37.89N	144.62E	25–10	5.3b,5.3s		
ISCJB	III	12 03 29 27.7–.12	37.92N–.03	144.63E–.02	33	5.1b,5.3s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 03 34 46.3–.26**	**35.24N–.03**	**141.18E–.04**	**35**	**5.3b,5.2s**	**866**	**1-159**
NIED	III	12 03 34 00	35.20N	141.20E	20	5.1W,5.2s		**¶16308524**
IDC	III	12 03 34 40.9–.41	35.29N	141.20E	0	5.1,5.0		
BJI	III	12 03 34 41.9	35.29N	141.20E	27	5.6b,5.3s		
NEIC	III	12 03 34 43.9–2.6	35.22N	140.95E	14–16	5.3b,5.3s		
MOS	III	12 03 34 43.3–.84	35.44N	141.59E	36	5.5b,5.3s		
JMA	III	12 03 34 44.0–.10	35.22N	141.21E	40–3	5.5,5.3s		
ISCJB	III	12 03 34 45.7–.10	35.20N–.02	140.98E–.02	35	5.2b,5.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ27.00000°,λ180.00000°. NP2:ϕ_s47.00000°,δ90.00000°,λ63.00000°. $M_0$4.79000×10^{16}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**12 03 52 56.7–.46**	**37.37N–.06**	**142.53E–.06**	**21**	**4.8b**	**154**	**1-146**
BJI	III	12 03 52 51.4	37.34N	143.01E	23	5.2b,5.1s		**¶16452009**
IDC	III	12 03 52 53.2–.51	37.33N	142.64E	0	4.6,4.6b		
ISCJB	III	12 03 52 55.4–.29	37.32N–.04	142.57E–.05	21	5.6s,4.7b		
NEIC	III	12 03 52 56.2–2.3	37.37N	142.62E	18–14	4.9b,4.7b		
JMA	III	12 03 52 57.0–.40	37.38N	142.45E	36	4.5,4.7b		

ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=143.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.

(197) Near north coast of Irian Jaya

ISC	**III**	**12 04 04 48.1–.27**	**3.02S–.04**	**139.20E–.04**	**46**	**5.4b,5.0s**	**233**	**1-160**
IDC	III	12 04 04 41.5–.58	2.92S	139.18E	0	5.4,5.3		**¶16310202**
MOS	III	12 04 04 44.8–.69	3.01S	139.11E	33	5.3b,5.3		
ISCJB	III	12 04 04 46.5–.18	3.01S–.03	139.24E–.02	46	5.4b,5.0s		
BJI	III	12 04 04 48.7	3.00S	139.10E	48	5.5b,5.2b		
DJA	III	12 04 04 49.5–.20	3S–3.0	139E–2.0	50–4	6.2,5.7b		
NEIC	III	12 04 04 49.6–.67	3.02S	139.10E	59–6	5.5b,5.7b		

ISC Event type se.
IDC Error ellipse: s-maj=21.9km s-min=15.3km az=100.0.
MOS Error ellipse: s-maj=14.2km s-min=9.1km az=97.2.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=30.2.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=222.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 04 06 09.0–.43**	**38.86N–.03**	**141.93E–.04**	**31–2**	**5.2b,5.1s**	**743**	**2-155**
NIED	III	12 04 06 00	38.70N	142.20E	47	5.3W,5.1s		**¶602656310**
BJI	III	12 04 06 04.6	38.70N	142.16E	28	5.6b,5.3b		
JMA	III	12 04 06 08.8–.30	38.74N	142.17E	40	5.3,5.3b		
MOS	III	12 04 06 08.4–1.0	38.90N	141.88E	39	5.5b,5.2s		
ISCJB	III	12 04 06 09.2–.43	38.89N–.02	141.86E–.03	42–3	5.2b,5.2s		
NEIC	III	12 04 06 10.2–.48	38.87N	141.78E	38–4	5.2b,5.2s		
IDC	III	12 04 06 11.3–2.1	38.83N	141.85E	49–19	5.0,4.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ96.00000°. $M_0$9.40000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=97.5.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=148.2.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=145.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=142.0.

(229) Off east coast of Honshu

ISC	**III**	**12 04 52 55.1–.36**	**40.13N–.03**	**143.41E–.03**	**17–1**	**5.8s,5.4b**	**1165**	**2-154**
NIED	III	12 04 52 00	40.10N	143.60E	20	5.6W,5.4b		**¶602656810**
IDC	III	12 04 52 52.9–.39	40.10N	143.34E	0	5.5,5.5s		
JMA	III	12 04 52 52.1–.20	40.06N	143.56E	8	5.7,5.5s		
ISCJB	III	12 04 52 53.2–.70	40.10N–.02	143.28E–.02	10–4	5.7s,5.4b		
MOS	III	12 04 52 55.9–1.0	40.19N	143.31E	33	5.7b,5.5s		
BJI	III	12 04 52 55.4	40.01N	143.08E	23	5.9b,5.8s		
NEIC	III	12 04 52 57.1–1.3	40.08N	143.20E	26–9	5.3b,5.8s		
GCMT	III	12 04 52 57.1–.30	40.07N	143.52E	29–1	5.8W,5.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ26.00000°,λ49.00000°. NP2:ϕ_s30.00000°,δ70.00000°,λ108.00000°. $M_0$2.99000×10^{17}
IDC Error ellipse: s-maj=11.3km s-min=9.9km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=144.3.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=95.9.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=140.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c41; s92,c143; Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95±.23 $M_{\theta\theta}$-0.89±.13; $M_{\phi\phi}$-3.06±.14; $M_{r\theta}$1.74±.24; $M_{\theta\phi}$-0.31±.06; $M_{\phi r}$3.37±.21; Best double couple: NP1:ϕ_s21.00000°,δ69.00000° ,λ97.00000°. NP2:ϕ_s183.00000°,δ22.00000°,λ73.00000°. Principal axes: T 5.6550,Plg66.0000°,Azm303.0000°; N -0.9840,Plg6.0000°,Azm199.0000° ; P -4.6660,Plg23.0000°,Azm106.0000° $M_0$5.16000×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**12 06 10 44.1–.68**	**38.39N–.04**	**143.88E–.04**	**15–3**	**5.4b,5.1s**	**761**	**3-158**
IDC	III	12 06 10 40.4–.39	38.14N	144.04E	0	5.0,4.9		**¶17194274**
MOS	III	12 06 10 42.1–.97	38.09N	143.98E	26	5.5b,4.9		
ISCJB	III	12 06 10 42.5–.13	38.43N–.03	143.92E–.03	13	5.2b,5.1s		
BJI	III	12 06 10 44.8	38.17N	143.32E	10	5.3b,5.1s		
GCMT	III	12 06 10 45.0–.50	38.34N	144.58E	19	5.4W,5.1s		
NEIC	III	12 06 10 45.0–1.3	38.49N	143.80E	20–9	5.4b,5.1s		
JMA	III	12 06 10 48.4–.40	38.19N	144.41E	18	5.3,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=9.9km az=133.0.
MOS Error ellipse: s-maj=8.8km s-min=7.0km az=83.3.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=156.7.
GCMT Error ellipse: s-maj=6.7km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c13; s63,c100; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.56±.07 $M_{\theta\theta}$1.01±.07; $M_{\phi\phi}$0.54±.06; $M_{r\theta}$-0.24±.20; $M_{\theta\phi}$0.51±.04; $M_{\phi r}$0.24±.17; Best double couple: NP1:ϕ_s68.00000°,δ47.00000° ,λ-76.00000°. NP2:ϕ_s227.00000°,δ45.00000°,λ-105.00000°. Principal axes: T 1.3370,Plg1.0000°,Azm148.0000°; N 0.2810,Plg10.0000°,Azm238.0000° ; P -1.6220,Plg80.0000°,Azm50.0000° $M_0$1.48000×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=134.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 06 18 41.5–.43**	**39.22N–.03**	**142.50E–.03**	**31–2**	**5.5b,5.2s**	**1172**	**2-159**
NIED	III	12 06 18 00	39.20N	142.70E	32	5.3W,5.2s		**¶602656073**
IDC	III	12 06 18 36.9–.30	39.16N	142.50E	0	5.2,5.1		
JMA	III	12 06 18 39.5–.10	39.16N	142.70E	44	5.5,5.1		
ISCJB	III	12 06 18 39.4–.70	39.19N–.02	142.43E–.02	24–4	5.4b,5.2s		
BJI	III	12 06 18 40.6	39.17N	142.32E	36	5.6b,5.2		
MOS	III	12 06 18 40.6–1.1	39.31N	142.46E	33	5.6b,5.0s		
NEIC	III	12 06 18 44.6–.41	39.17N	142.33E	54–3	5.5b,5.0s		
GCMT	III	12 06 18 44.6–.40	39.30N	142.35E	37–1	5.5W,5.0s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ31.00000°,λ-64.00000°. NP2:ϕ_s229.00000°,δ63.00000°,λ-104.00000°. $M_0$1.06000×10^{17}
IDC Error ellipse: s-maj=10.8km s-min=7.5km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=137.5.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=88.4.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=130.0. Recorded [4 JMA] in Iwate.

GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c46; s66,c98; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.82±.10 $M_{\theta\theta}$1.10±.06; $M_{\phi\phi}$0.72±.06; $M_{r\theta}$0.50±.07; $M_{\theta\phi}$0.55±.04; $M_{\phi r}$1.01±.07; Best double couple: NP1:ϕ_s221.00000°,δ62.00000° ,λ-101.00000°. NP2:ϕ_s62.00000°,δ30.00000°,λ-71.00000°. Principal axes: T 1.7760,Plg16.0000°,Azm318.0000°; N 0.4230,Plg9.0000°,Azm226.0000° ; P -2.1990,Plg71.0000°,Azm106.0000° M_o1.98700×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**12 09 18 56.4–.33**	**37.12N–.04**	**143.51E–.04**	**30–2**	**5.3b,5.0s**	**890**	**2-153**
IDC	III	12 09 18 51.4–.39	37.05N	143.55E	0	5.1,5.1		**¶602656516**
NEIC	III	12 09 18 53.5–.10	37.09N	143.47E	10	5.4b,5.1		
GCMT	III	12 09 18 53.5–.40	37.34N	143.60E	12	5.2W,5.1		
ISCJB	III	12 09 18 54.7–.11	37.11N–.02	143.48E–.02	29	5.2b,4.9s		
BJI	III	12 09 18 54.1	37.20N	143.27E	20	5.4b,5.1b		
MOS	III	12 09 18 54.6–1.0	37.15N	143.49E	30	5.5b,5.0s		
JMA	III	12 09 18 55.9–.20	37.03N	143.36E	40	5.1,5.0s		

ISC Event type ke.
IDC Error ellipse: s-maj=11.3km s-min=9.8km az=156.0.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=149.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s72,c128; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.69±.30 $M_{\theta\theta}$4.00±.27; $M_{\phi\phi}$2.68±.29; $M_{r\theta}$1.32±1.00; $M_{\theta\phi}$3.68±.20; $M_{\phi r}$3.17±.99; Best double couple: NP1:ϕ_s218.00000°,δ58.00000° ,λ-103.00000°. NP2:ϕ_s62.00000°,δ34.00000°,λ-70.00000°. Principal axes: T 7.7360,Plg12.0000°,Azm318.0000°; N -0.0810,Plg11.0000°,Azm225.0000° ; P -7.6650,Plg73.0000°,Azm94.0000° M_o7.70100×10^{16}
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=1.9km az=161.5.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=105.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(190) New Ireland region

ISC	**III**	**12 09 51 36.6–.33**	**3.88S–.05**	**151.52E–.05**	**21**	**5.2b,4.9s**	**231**	**1-157**
BJI	III	12 09 51 33.5	3.36S	151.81E	4	5.5b,5.3s		**¶16310169**
IDC	III	12 09 51 33.5–.51	3.86S	151.40E	0	4.9s,4.9		
ISCJB	III	12 09 51 35.2–.20	3.87S–.03	151.46E–.03	21	5.1b,4.9s		
NEIC	III	12 09 51 35.3–.19	3.84S	151.45E	10	5.2b,4.9s		
GCMT	III	12 09 51 35.3–.20	3.65S	151.38E	16–1	5.6W,4.9s		
MOS	III	12 09 51 36.8–1.2	3.83S	151.42E	33	5.3b,4.9s		
DJA	III	12 09 51 49.0–1.4	4S–6.0	151E–9.0	101–9	6.0,5.8b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c76; s118,c214;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.43±.07 $M_{\theta\theta}$2.74±.06; $M_{\phi\phi}$-2.31±.06; $M_{r\theta}$0.16±.18; $M_{\theta\phi}$1.00±.05; $M_{\phi r}$0.20±.19; Best double couple: NP1:ϕ_s214.00000°,δ89.00000°,λ-174.00000°. NP2:ϕ_s124.00000° ,δ84.00000°,λ-1.00000°. Principal axes: T 2.9420,Plg3.0000°,Azm349.0000° ; N -0.4280,Plg84.0000°,Azm224.0000°; P -2.5150,Plg5.0000°,Azm79.0000° M_o2.72800×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**12 10 20 21.8–.28**	**37.20N–.03**	**143.49E–.04**	**28–1**	**5.4b,5.3s**	**1046**	**2-153**
ISCJB	III	12 10 20 17.6–1.0	37.19N–.02	143.49E–.02	9–6	5.2s,5.2b		**¶17194366**
IDC	III	12 10 20 17.1–.33	37.10N	143.59E	0	4.9,4.9		
JMA	III	12 10 20 20.9–.50	37.02N	143.14E	0	5.3,4.9		
NEIC	III	12 10 20 21.2–1.1	37.15N	143.47E	22–7	5.5b,4.9		
GCMT	III	12 10 20 21.2–.20	37.17N	143.62E	12	5.3W,4.9		
MOS	III	12 10 20 22.1–.94	37.50N	143.42E	31	5.5b,5.2s		
BJI	III	12 10 20 22.1	37.37N	143.10E	26	5.7b,5.3s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.3km az=161.0.
IDC Error ellipse: s-maj=9.8km s-min=8.1km az=104.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c39; s91,c177; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.15±.03 $M_{\theta\theta}$0.59±.03; $M_{\phi\phi}$0.55±.02; $M_{r\theta}$-0.21±.10; $M_{\theta\phi}$0.46±.02; $M_{\phi r}$-0.03±.10; Best double couple: NP1:ϕ_s52.00000°,δ50.00000° ,λ-83.00000°. NP2:ϕ_s221.00000°,δ41.00000°,λ-98.00000°. Principal axes: T 1.0430,Plg4.0000°,Azm137.0000°; N 0.1280,Plg6.0000°,Azm227.0000° ; P -1.1750,Plg83.0000°,Azm8.0000° M_o1.10900×10^{17}
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=103.0.

(229) Off east coast of Honshu

ISC	**III**	**12 10 39 10.9–.66**	**36.70N–.04**	**141.92E–.04**	**28–4**	**5.0b,4.8s**	**759**	**1-154**
NIED	III	12 10 39 00	36.70N	141.90E	29	4.7W,4.8s		**¶17194375**
BJI	III	12 10 39 06.5	36.59N	142.31E	31	5.5b,4.9b		
JMA	III	12 10 39 10.5–.30	36.72N	141.87E	22–3	4.9,4.9b		
ISCJB	III	12 10 39 11.5–.46	36.68N–.02	141.81E–.03	39–4	4.9b,4.8s		
MOS	III	12 10 39 11.3–.95	36.92N	141.84E	37	5.3b,4.8s		
IDC	III	12 10 39 12.9–1.9	36.71N	141.82E	41–17	4.8,4.7		
NEIC	III	12 10 39 12.5–.11	36.70N	141.76E	35	5.0b,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ47.00000°,λ-61.00000°. NP2:ϕ_s179.00000°,δ50.00000°,λ-117.00000°. M_o1.38000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=163.7.
MOS Error ellipse: s-maj=8.1km s-min=5.9km az=84.4.
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=100.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=150.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 10 53 30.9–.31**	**39.07N–.02**	**142.40E–.03**	**30–1**	**5.9b,5.5s**	**1902**	**2-161**
NIED	III	12 10 53 00	39.00N	142.50E	32	5.7W,5.5s		**¶16309776**
ISCJB	III	12 10 53 28.6–.61	39.04N–.01	142.37E–.01	22–4	5.8b,5.5s		
BJI	III	12 10 53 28.5	38.92N	142.26E	28	5.7,5.7b		
JMA	III	12 10 53 28.4–.20	39.00N	142.54E	20–4	5.8,5.7b		
MOS	III	12 10 53 29.5–.89	39.10N	142.41E	32	6.1b,5.4s		
NEIC	III	12 10 53 30.8–.07	39.05N	142.28E	27	6.0b,5.7W		
GCMT	III	12 10 53 30.8–.20	39.04N	142.28E	36–0	5.7W,5.7W		
IDC	III	12 10 53 31.4–.37	39.04N	142.34E	33–2	5.5,5.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ20.00000°,λ-107.00000°. NP2:ϕ_s165.00000°,δ71.00000°,λ-84.00000°. M_o3.41000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=96.8.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=139.0. Recorded [4 JMA] in Iwate and Miyagi. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.30 $M_{\theta\theta}$1.32 $M_{\phi\phi}$1.98 $M_{r\theta}$-0.43 $M_{\theta\phi}$-0.17 $M_{\phi r}$2.75 Best double couple: NP1:ϕ_s347.00000°,δ22.00000° ,λ-92.00000°. NP2:ϕ_s170.00000°,δ68.00000°,λ-89.00000°. Principal axes: T 3.2100,Plg23.0000°,Azm259.0000°; N 1.2800,Plg1.0000°,Azm350.0000° ; P -4.4900,Plg67.0000°,Azm82.0000° M_o4.00000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c134; s114,c201; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.10±.09 $M_{\theta\theta}$1.27±.06; $M_{\phi\phi}$1.83±.06; $M_{r\theta}$-0.41±.07; $M_{\theta\phi}$-1.15±.04; $M_{\phi r}$3.23±.09; Best double couple: NP1:ϕ_s163.00000°,δ69.00000° ,λ-78.00000°. NP2:ϕ_s311.00000°,δ24.00000°,λ-120.00000°. Principal axes: T 3.9740,Plg23.0000°,Azm243.0000°; N 0.7270,Plg12.0000°,Azm339.0000° ; P -4.7010,Plg63.0000°,Azm93.0000° M_o4.33800×10^{17}
IDC Error ellipse: s-maj=7.6km s-min=5.7km az=80.0.

(229) Off east coast of Honshu

ISC	**III**	**12 11 45 46.6–2.6**	**37.2N–.40**	**143.3E–.10**	**10**	**4.1b**	**16**	**11-76**
IDC	III	12 11 45 45.1–2.7	37.26N	143.26E	0	5.7,5.7s		**¶16476939**

ISC Event type ke.
IDC Error ellipse: s-maj=69.0km s-min=20.4km az=0.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 11 46 01.5–.34**	**35.77N–.03**	**141.66E–.03**	**19–1**	**5.5b,5.4s**	**1098**	**1-154**
ISCJB	III	12 11 45 58.3–.79	35.72N–.02	141.71E–.02	10–4	5.4b,5.3s		**¶17194398**
IDC	III	12 11 45 58.2–.31	35.78N	141.79E	0	5.2L,5.1		
NEIC	III	12 11 45 60.0–.09	35.74N	141.68E	10	5.6b,5.1		
GCMT	III	12 11 46 00.0–.40	35.83N	141.86E	12	5.3W,5.1		
NIED	III	12 11 46 00	35.90N	141.90E	17	5.3W,5.1		
BJI	III	12 11 46 00.9	35.75N	141.39E	16	5.4s,5.3b		
JMA	III	12 11 46 00.0–.20	35.88N	141.86E	26–3	5.5,5.3b		
MOS	III	12 11 46 01.5–.87	35.75N	141.75E	34	5.7b,5.2s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=157.0.
IDC Error ellipse: s-maj=9.9km s-min=8.8km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=143.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c22; s61,c87; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.21±.03 $M_{\theta\theta}$0.04±.02; $M_{\phi\phi}$-0.25±.02; $M_{r\theta}$0.81±.06; $M_{\theta\phi}$-0.24±.02; $M_{\phi r}$-0.63±.06; Best double couple: NP1:ϕ_s131.00000°,δ89.00000° ,λ84.00000°. NP2:ϕ_s34.00000°,δ6.00000°,λ172.00000°. Principal axes: T 1.2160,Plg45.0000°,Azm35.0000°; N -0.3690,Plg6.0000°,Azm131.0000° ; P -0.8480,Plg44.0000°,Azm227.0000° M_o1.03200×10^{17}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ39.00000°,λ-39.00000°. NP2:ϕ_s141.00000°,δ67.00000°,λ-122.00000°. M_o9.24000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=114.0.

(229) Off east coast of Honshu

ISC	**III**	**12 12 53 51.6–.30**	**37.77N–.03**	**143.50E–.03**	**31–1**	**5.8s,5.8b**	**1774**	**2-163**
NIED	III	12 12 53 00	37.80N	142.80E	32	5.9W,5.8b		**¶16310177**
IDC	III	12 12 53 46.7–.28	37.71N	143.62E	0	5.5s,5.5		
ISCJB	III	12 12 53 48.8–.07	37.68N–.02	143.56E–.01	22	5.8s,5.7b		
MOS	III	12 12 53 49.9–.95	37.75N	143.56E	33	6.1b,5.8s		
BJI	III	12 12 53 52.1	37.87N	142.89E	19	6.0s,5.9		
GCMT	III	12 12 53 52.1–.10	37.71N	143.60E	21–0	5.9W,5.9		
NEIC	III	12 12 53 52.1–.90	37.73N	143.51E	34–6	5.8s,5.8b		
JMA	III	12 12 53 55.3–.50	37.76N	142.76E	2	5.9,5.8b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ73.00000°,λ177.00000°. NP2:ϕ_s58.00000°,δ88.00000°,λ17.00000°. M_o6.68000×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=7.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.5km az=159.8.
MOS Error ellipse: s-maj=6.9km s-min=4.7km az=105.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c201; s135,c280; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.60±.01 $M_{\theta\theta}$-0.43±.01; $M_{\phi\phi}$1.02±.01; $M_{r\theta}$0.19±.02; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$0.41±.02; Best double couple: NP1:ϕ_s209.00000°,δ62.00000° ,λ-66.00000°. NP2:ϕ_s346.00000°,δ36.00000°,λ-128.00000°. Principal axes: T 1.1840,Plg14.0000°,Azm282.0000°; N -0.4420,Plg21.0000°,Azm17.0000° ; P -0.7460,Plg64.0000°,Azm161.0000° M_o0.96500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=136.0. Felt at Tokyo. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 13 15 41.2–.37**	**37.24N–.02**	**141.30E–.03**	**34–1**	**6.1b,6.0s**	**1953**	**0-161**
NIED	III	12 13 15 00	37.20N	141.40E	44	6.2W,6.0s		**¶16310815**
BJI	III	12 13 15 38.2	37.10N	141.30E	30	6.3b,6.0s		
MOS	III	12 13 15 39.3–1.2	37.28N	141.46E	33	6.1b,5.9s		
NEIC	III	12 13 15 41.6–.08	37.25N	141.16E	38	6.1W,6.1W		
NEIC	III	12 13 15 41.0–.00	37.06N	141.77E	37	6.1W,6.1W		
JMA	III	12 13 15 41.7–.10	37.20N	141.43E	40–1	6.2,6.1W		
ISCJB	III	12 13 15 41.8–.27	37.25N–.02	141.30E–.01	50–2	6.0s,6.0b		
GCMT	III	12 13 15 41.7–.10	37.23N	141.53E	46–0	6.2W,6.0b		
IDC	III	12 13 15 43.4–1.9	37.24N	141.32E	53–17	5.6s,5.6		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ23.00000°,λ54.00000°. NP2:ϕ_s43.00000°,δ72.00000°,λ104.00000°. M_o1.91000×10^{18}
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=141.0. Felt [II] at Tokyo. Also felt at Ayase, Fussa, Hamura, Hirakata, Maebashi, Misawa, Nagano, Otawara, Sagamihara, Saku, Yokosuka and Zama. Recorded [5L JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}1.15 $M_{\theta\theta}$-0.63 $M_{\phi\phi}$-0.52 $M_{r\theta}$0.46 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.65 Best double couple: NP1:ϕ_s236.00000°,δ30.00000°,λ105.00000°. NP2: ϕ_s39.00000°,δ61.00000°,λ82.00000°. Principal axes: T 1.3900,Plg73.0000°,Azm289.0000° ; N 0.3100,Plg7.0000°,Azm43.0000°; P -1.6900,Plg15.0000°,Azm135.0000° M_o1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{18}Nm; M_{rr}1.58 $M_{\theta\theta}$-0.63 $M_{\phi\phi}$-0.94 $M_{r\theta}$0.81 $M_{\theta\phi}$-0.40 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s33.00000° ,δ68.00000°,λ90.00000°. NP2:ϕ_s215.00000°,δ22.00000°,λ91.00000°. Principal axes: T 2.2200,Plg66.0000°,Azm302.0000°; N -0.3600,Plg0.0000°,Azm33.0000° ; P -1.8500,Plg23.0000°,Azm123.0000° M_o2.10000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=158.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s131,c310; s141,c332;Duration: 3s0 Moment tensor: Scale 10^{18}Nm; M_{rr}1.67±.02 $M_{\theta\theta}$-0.34±.01; $M_{\phi\phi}$-1.34±.02; $M_{r\theta}$0.93±.02; $M_{\theta\phi}$-0.65±.01; $M_{\phi r}$1.22±.02; Best double couple: NP1:ϕ_s34.00000° ,δ66.00000°,λ96.00000°. NP2:ϕ_s199.00000°,δ24.00000°,λ77.00000°. Principal axes: T 2.2840,Plg68.0000°,Azm315.0000°; N -0.0460,Plg5.0000°,Azm211.0000° ; P -2.2460,Plg21.0000°,Azm119.0000° M_o2.26500×10^{18}
IDC Error ellipse: s-maj=8.8km s-min=7.7km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 13 26 56.0–.50**	**39.45N–.03**	**142.61E–.04**	**27–3**	**5.3s,5.2b**	**462**	**2-149**
NIED	III	12 13 26 00	39.50N	142.60E	32	5.0W,5.2b		**¶16310816**
BJI	III	12 13 26 52.7	39.44N	142.60E	22	5.8b,5.4s		
JMA	III	12 13 26 54.1–.30	39.53N	142.63E	7–3	5.4,5.4s		
MOS	III	12 13 26 56.3–1.4	39.60N	142.63E	33	5.4b,5.4s		
ISCJB	III	12 13 26 56.7–.49	39.44N–.02	142.61E–.03	45–3	5.3s,5.1b		
NEIC	III	12 13 26 57.3–.20	39.43N	142.37E	35	5.3b,5.1b		
IDC	III	12 13 26 57.5–3.2	39.51N	142.47E	33–24	4.9,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ106.00000°. NP2:ϕ_s2.00000°,δ72.00000°,λ85.00000°. M_o3.75000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=5.9km az=88.5.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=23.5.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=124.0. Recorded [2 JMA] in Akita, Aomori, Iwate, Miyagi and Yamagata.
IDC Error ellipse: s-maj=12.1km s-min=9.2km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 03 29.5–.27**	**38.81N–.03**	**142.67E–.03**	**24–1**	**5.8b,5.3s**	**1031**	**2-159**
NIED	III	12 14 03 00	38.80N	142.70E	20	5.5W,5.3s		**¶602655285**
IDC	III	12 14 03 25.9–.30	38.81N	142.68E	0	5.3,5.2		
JMA	III	12 14 03 26.8–.40	38.78N	142.74E	7	5.8,5.2		
BJI	III	12 14 03 27.4	38.80N	142.57E	23	5.7b,5.6s		
ISCJB	III	12 14 03 28.5–.71	38.77N–.02	142.63E–.02	26–4	5.6b,5.4s		
MOS	III	12 14 03 29.0–1.1	38.89N	142.70E	33	6.0b,5.2s		
NEIC	III	12 14 03 31.3–.09	38.79N	142.55E	35	5.8b,5.3s		
GCMT	III	12 14 03 31.3–.20	38.76N	142.72E	26–0	5.6W,5.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ38.00000°,λ-121.00000°. NP2:ϕ_s2.00000°,δ58.00000°,λ-68.00000°. M_o1.78000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=7.8km az=92.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=145.1.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=97.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=136.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c62; s102,c177; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.30±.10 $M_{\theta\theta}$0.18±.06; $M_{\phi\phi}$2.12±.06; $M_{r\theta}$-0.80±.14; $M_{\theta\phi}$-0.69±.03; $M_{\phi r}$-1.31±.12; Best double couple: NP1:ϕ_s4.00000°,δ61.00000° ,λ-67.00000°. NP2:ϕ_s144.00000°,δ36.00000°,λ-125.00000°. Principal axes: T 2.5730,Plg13.0000°,Azm78.0000°; N 0.3790,Plg20.0000°,Azm173.0000° ; P -2.9540,Plg66.0000°,Azm317.0000° M_o2.76400×10^{17}

(49) Gulf of California

ISC	**III**	**12 14 11 04.0–.64**	**25.42N–.04**	**109.74W–.05**	**16–3**	**5.2b,4.8s**	**448**	**1-139**
ISCJB	III	12 14 11 00.7–.92	25.39N–.02	109.69W–.02	2–6	5.1b,4.8s		**¶16310182**
IDC	III	12 14 11 01.8–.57	25.54N	109.56W	0	4.8,4.8s		
BJI	III	12 14 11 02.9	25.40N	109.70W	12	5.7b,5.5		

MEX	III	12 14 11 02.7–.45	25.58N	109.81W	12–5	5.2,5.5	
NEIC	III	12 14 11 03.0–.31	25.32N	109.74W	10	5.3b,5.2	
GCMT	III	12 14 11 03.0–.30	25.65N	109.80W	12	5.4W,5.2	

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=34.0.
IDC Error ellipse: s-maj=17.5km s-min=10.4km az=57.0.
MEX Error ellipse: s-maj=1.9km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=222.0. Felt [II] at Los Mochis, Sinaloa. Also felt at Guasave and Topolobampo.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s33,c38; s97,c151; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.51±.04 $M_{\theta\theta}$0.08±.04; $M_{\phi\phi}$1.44±.04; $M_{r\theta}$0.43±.18; $M_{\theta\phi}$0.30±.04; $M_{\phi r}$-0.52±.14; Best double couple: NP1:ϕ_s355.00000°,δ55.00000° ,λ-110.00000°. NP2:ϕ_s207.00000°,δ39.00000°,λ-64.00000°. Principal axes: T 1.5630,Plg8.0000°,Azm99.0000°; N 0.1660,Plg16.0000°,Azm7.0000° ; P -1.7220,Plg72.0000°,Azm215.0000° $M_0$1.64300×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 34 58.9–.42**	**35.81N–.03**	**141.71E–.03**	**20–2**	**5.5b,5.5s**	**842**	**1-154**
NIED	III	12 14 34 00	35.90N	141.80E	17	5.4W,5.5s		**¶600541633**
IDC	III	12 14 34 55.8–.31	35.80N	141.76E	0	5.2,5.2		
ISCJB	III	12 14 34 57.0–.81	35.80N–.02	141.70E–.02	16–5	5.5s,5.5b		
BJI	III	12 14 34 58.1	35.80N	141.59E	22	5.5b,5.5s		
JMA	III	12 14 34 58.3–.20	35.88N	141.83E	22–3	5.6,5.5s		
MOS	III	12 14 34 59.5–1.1	35.82N	141.77E	34	5.8b,5.7s		
GCMT	III	12 14 35 01.1–.30	35.74N	141.69E	17–1	5.4W,5.7s		
NEIC	III	12 14 35 01.1–.12	35.78N	141.66E	35	5.6b,5.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ27.00000°,λ138.00000°. NP2:ϕ_s126.00000°,δ72.00000°,λ70.00000°. $M_0$1.39000×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=8.6km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.2km az=116.6.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s81,c129; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.19±.08 $M_{\theta\theta}$-0.28±.04; $M_{\phi\phi}$-0.91±.05; $M_{r\theta}$1.42±.14; $M_{\theta\phi}$-0.07±.03; $M_{\phi r}$-0.33±.10; Best double couple: NP1:ϕ_s112.00000°,δ76.00000° ,λ82.00000°. NP2:ϕ_s322.00000°,δ16.00000°,λ119.00000°. Principal axes: T 2.0890,Plg58.0000°,Azm12.0000°; N -0.9010,Plg8.0000°,Azm114.0000° ; P -1.1910,Plg31.0000°,Azm209.0000° $M_0$1.64000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=131.0. Recorded [5L JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 43 08.4–.30**	**39.45N–.03**	**142.58E–.03**	**20–1**	**5.7b,5.5s**	**1611**	**2-159**
NIED	III	12 14 43 00	39.50N	142.70E	20	5.7W,5.5s		**¶602655123**
BJI	III	12 14 43 05.3	39.34N	142.62E	22	6.0b,5.9		
JMA	III	12 14 43 05.9–.20	39.47N	142.70E	9–2	5.9,5.9		
IDC	III	12 14 43 05.8–.32	39.51N	142.52E	0	5.4,5.4s		
ISCJB	III	12 14 43 06.5–.65	39.43N–.01	142.54E–.02	14–4	5.7b,5.6s		
MOS	III	12 14 43 08.6–1.1	39.56N	142.56E	34	6.1b,5.5s		
NEIC	III	12 14 43 10.8–.09	39.47N	142.41E	35	5.7b,5.5s		
GCMT	III	12 14 43 10.9–.20	39.52N	142.52E	15–0	5.8W,5.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ10.00000°,λ74.00000°. NP2:ϕ_s0.00000°,δ81.00000°,λ93.00000°. $M_0$3.64000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=9.3km s-min=8.9km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=155.9.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=97.2.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=139.0. Recorded [4 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c74; s102,c172; Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.05 $M_{\theta\theta}$0.14±.04; $M_{\phi\phi}$-1.02±.04; $M_{r\theta}$0.15±.16; $M_{\theta\phi}$0.14±.03; $M_{\phi r}$5.80±.40; Best double couple: NP1:ϕ_s1.00000°,δ85.00000° ,λ92.00000°. NP2:ϕ_s162.00000°,δ5.00000°,λ71.00000°. Principal axes: T 5.8150,Plg50.0000°,Azm273.0000°; N 0.1370,Plg2.0000°,Azm181.0000° ; P -5.9470,Plg40.0000°,Azm90.0000° $M_0$5.88100×10^{17}

(49) Gulf of California

ISC	**III**	**12 17 13 00.5–.36**	**25.46N–.03**	**109.86W–.05**	**10**	**5.2b,4.4s**	**691**	**1-140**
IDC	III	12 17 12 58.1–.61	25.40N	109.76W	0	4.4,4.4s		**¶16310830**
ISCJB	III	12 17 12 59.2–.27	25.44N–.03	109.72W–.02	10	5.0b,4.4s		
GCMT	III	12 17 13 00.6–.30	25.55N	109.87W	12	5.2W,4.4s		
MEX	III	12 17 13 00.7–.72	25.58N	109.85W	16–8	4.6,4.4s		
NEIC	III	12 17 13 00.6–.46	25.38N	109.70W	10	5.1b,4.4s		
MOS	III	12 17 13 00.4–1.6	25.58N	109.58W	10	5.3b,4.4s		
BJI	III	12 17 13 02.0	25.50N	109.70W	10	5.6b,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=11.9km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.1km az=12.9.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c33; s91,c149; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.02 $M_{\theta\theta}$-0.01±.02; $M_{\phi\phi}$0.70±.02; $M_{r\theta}$-0.18±.08; $M_{\theta\phi}$0.20±.02; $M_{\phi r}$0.19±.07; Best double couple: NP1:ϕ_s178.00000°,δ53.00000° ,λ-111.00000°. NP2:ϕ_s31.00000°,δ42.00000°,λ-65.00000°. Principal axes: T 0.7710,Plg5.0000°,Azm283.0000°; N 0.0090,Plg17.0000°,Azm192.0000° ; P -0.7800,Plg72.0000°,Azm31.0000° $M_0$0.77500×10^{17}
MEX Error ellipse: s-maj=3.2km s-min=3.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.5km az=210.0.
MOS Error ellipse: s-maj=8.5km s-min=4.5km az=97.1.

(229) Off east coast of Honshu

ISC	**III**	**12 17 19 23.6–.63**	**36.47N–.03**	**142.63E–.03**	**13–3**	**5.6s,5.2b**	**648**	**2-154**
NIED	III	12 17 19 00	36.50N	142.60E	5	5.5W,5.2b		**¶602655679**
BJI	III	12 17 19 20.8	36.80N	142.70E	10	6.0s,5.8		
IDC	III	12 17 19 21.1–.42	36.44N	142.66E	0	5.3,5.3s		
JMA	III	12 17 19 21.1–.30	36.53N	142.62E	2	5.6,5.3s		
ISCJB	III	12 17 19 22.6–.14	36.55N–.02	142.52E–.02	10	5.6s,5.0b		
GCMT	III	12 17 19 23.9–.10	36.47N	142.94E	12	5.6W,5.0b		
NEIC	III	12 17 19 23.9–.19	36.52N	142.48E	10	5.8W,5.5s		
MOS	III	12 17 19 25.0–1.3	36.65N	142.64E	36	5.5s,5.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ49.00000°,λ122.00000°. NP2:ϕ_s180.00000°,δ50.00000°,λ59.00000°. $M_0$2.10000×10^{17}
IDC Error ellipse: s-maj=11.4km s-min=10.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=156.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c140; s130,c273; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.24±.03 $M_{\theta\theta}$-0.46±.03; $M_{\phi\phi}$-1.77±.03; $M_{r\theta}$0.88±.09; $M_{\theta\phi}$-0.95±.02; $M_{\phi r}$1.67±.08; Best double couple: NP1:ϕ_s28.00000°,δ65.00000° ,λ90.00000°. NP2:ϕ_s208.00000°,δ25.00000°,λ90.00000°. Principal axes: T 2.9270,Plg70.0000°,Azm298.0000°; N 0.0360,Plg0.0000°,Azm208.0000° ; P -2.9560,Plg20.0000°,Azm118.0000° $M_0$2.94100×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=152.0. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}5.83 $M_{\theta\theta}$-0.71 $M_{\phi\phi}$-5.11 $M_{r\theta}$-2.66 $M_{\theta\phi}$0.14 $M_{\phi r}$2.12 Best double couple: NP1:ϕ_s192.00000°,δ36.00000°,λ119.00000°. NP2:ϕ_s338.00000° ,δ59.00000°,λ71.00000°. Principal axes: T 7.0900,Plg69.0000°,Azm207.0000° ; N -1.4900,Plg16.0000°,Azm348.0000°; P -5.6000,Plg12.0000°,Azm82.0000° $M_0$6.50000×10^{17}
MOS Error ellipse: s-maj=7.3km s-min=4.8km az=108.0.

(229) Off east coast of Honshu

ISC	**III**	**12 19 11 59.0–.29**	**37.68N–.03**	**142.75E–.04**	**21**	**5.2s,5.1b**	**471**	**2-154**
NIED	III	12 19 11 00	37.70N	142.60E	5	5.5W,5.1b		**¶602654781**
IDC	III	12 19 11 55.9–.40	37.65N	142.71E	0	4.9,4.9		
JMA	III	12 19 11 56.5–.40	37.66N	142.60E	1	5.3,4.9		
BJI	III	12 19 11 57.0	37.76N	142.70E	25	5.4b,5.4s		
NEIC	III	12 19 11 57.0–2.1	37.71N	142.61E	5–12	5.1b,5.4s		
GCMT	III	12 19 11 57.0–.20	37.88N	142.51E	12	5.3W,5.4s		
ISCJB	III	12 19 11 58.4–.14	37.78N–.02	142.60E–.02	21	5.3s,5.0b		
MOS	III	12 19 11 59.7–.95	37.92N	142.63E	27	5.6s,5.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ10.00000°,λ-34.00000°. NP2:ϕ_s236.00000°,δ84.00000°,λ-98.00000°. $M_0$1.78000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=106.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c86; s109,c194; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.49±.01 $M_{\theta\theta}$0.33±.01; $M_{\phi\phi}$0.15±.01; $M_{r\theta}$0.82±.03; $M_{\theta\phi}$0.08±.01; $M_{\phi r}$0.74±.03; Best double couple: NP1:ϕ_s229.00000°,δ80.00000° ,λ-94.00000°. NP2:ϕ_s69.00000°,δ11.00000°,λ-71.00000°. Principal axes: T 1.1120,Plg35.0000°,Azm322.0000°; N 0.1500,Plg4.0000°,Azm230.0000° ; P -1.2620,Plg55.0000°,Azm135.0000° $M_0$1.18700×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=151.9.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=104.2.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 48 08.1–.45**	**39.56N–.03**	**142.73E–.03**	**22–3**	**5.4b,5.3s**	**1036**	**1-162**
NIED	III	12 21 48 00	39.60N	142.90E	8	5.5W,5.3s		**¶16310854**
JMA	III	12 21 48 03.8–.10	39.58N	142.93E	0	5.6,5.3s		
IDC	III	12 21 48 04.7–.40	39.47N	142.68E	0	5.1,5.1s		
BJI	III	12 21 48 05.8	39.51N	142.77E	28	5.6s,5.4		
ISCJB	III	12 21 48 07.5–.10	39.61N–.02	142.66E–.02	25	5.3s,5.3b		
MOS	III	12 21 48 07.9–1.1	39.69N	142.70E	31	5.7b,5.3s		
NEIC	III	12 21 48 09.6–1.3	39.61N	142.57E	26–9	5.5b,5.3s		
GCMT	III	12 21 48 09.6–.20	39.54N	142.84E	13–0	5.4W,5.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ28.00000°,λ-167.00000°. NP2:ϕ_s67.00000°,δ84.00000°,λ-62.00000°. $M_0$1.97000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=1.9km az=157.4.
MOS Error ellipse: s-maj=7.9km s-min=5.1km az=90.6.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c119; s110,c212; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56±.03 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$0.61±.02; $M_{r\theta}$-1.25±.10; $M_{\theta\phi}$0.80±.02; $M_{\phi r}$-0.55±.06; Best double couple: NP1:ϕ_s64.00000°,δ78.00000° ,λ-63.00000°. NP2:ϕ_s177.00000°,δ29.00000°,λ-155.00000°. Principal axes: T 1.7700,Plg28.0000°,Azm133.0000°; N -0.1850,Plg26.0000°,Azm239.0000° ; P -1.5850,Plg50.0000°,Azm4.0000° $M_0$1.67800×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 58 16.5–.39**	**39.04N–.03**	**142.45E–.03**	**28–2**	**5.3s,5.2b**	**1094**	**1-162**
NIED	III	12 21 58 00	39.00N	142.50E	32	5.3W,5.2b		**¶16310855**
IDC	III	12 21 58 12.4–.35	39.05N	142.38E	0	5.4L,5.0		
JMA	III	12 21 58 13.7–.30	39.03N	142.53E	14–2	5.4,5.0		
BJI	III	12 21 58 13.0	38.97N	142.61E	28	5.5b,5.5s		
MOS	III	12 21 58 14.9–1.1	39.06N	142.52E	31	5.4b,5.0s		
ISCJB	III	12 21 58 16.8–.36	39.03N–.02	142.43E–.02	41–3	5.3s,5.1b		
GCMT	III	12 21 58 18.9–.20	39.13N	142.27E	32–0	5.4W,5.1b		
NEIC	III	12 21 58 18.9–.42	39.03N	142.31E	45–3	5.3s,5.2b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ24.00000°,λ-96.00000°. NP2:ϕ_s175.00000°,δ67.00000°,λ-87.00000°. $M_0$9.94000×10^{16}
IDC Error ellipse: s-maj=9.8km s-min=9.7km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.1km az=90.9.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=148.8.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c107; s91,c141; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.05 $M_{\theta\theta}$0.33±.03; $M_{\phi\phi}$0.93±.03; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$1.13±.04; Best double couple: NP1:ϕ_s173.00000°,δ68.00000° ,λ-88.00000°. NP2:ϕ_s347.00000°,δ22.00000°,λ-96.00000°. Principal axes: T 1.4330,Plg23.0000°,Azm261.0000°; N 0.3080,Plg2.0000°,Azm352.0000° ; P -1.7390,Plg67.0000°,Azm87.0000° $M_0$1.58600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=146.0. Recorded [3 JMA] in Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**12 22 11 17.7–.75**	**39.1N–.10**	**144.57E–.09**	**19**	**4.4b**	**58**	**3-145**
IDC	III	12 22 11 15.7–.92	39.32N	144.48E	0	5.8,5.8s		**¶16449503**
ISCJB	III	12 22 11 16.6–.55	39.16N–.08	144.48E–.08	19	4.4b,5.8s		
NEIC	III	12 22 11 19.9–2.0	39.17N	144.48E	31–13	4.4b,5.8s		

ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=14.5km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=6.8km az=148.6.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=5.6km az=139.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 22 12 46.8–.33**	**37.70N–.03**	**141.98E–.03**	**20–1**	**5.9b,5.5s**	**1916**	**1-164**
NIED	III	12 22 12 00	37.60N	142.10E	8	5.8W,5.5s		**¶16310858**
BJI	III	12 22 12 42.6	37.62N	141.99E	12	6.1s,6.0		
IDC	III	12 22 12 43.5–.27	37.62N	142.01E	0	5.8,5.7		
ISCJB	III	12 22 12 43.7–.75	37.70N–.02	142.00E–.01	9–4	5.8b,5.6s		
JMA	III	12 22 12 44.0–.20	37.61N	142.05E	9–3	6.1,5.6s		
MOS	III	12 22 12 46.3–1.2	37.70N	142.09E	35	6.1b,5.5s		
NEIC	III	12 22 12 46.0–.00	37.46N	142.16E	15	6.1b,5.5s		
NEIC	III	12 22 12 46.3–.08	37.68N	141.89E	16	5.9b,5.8		
GCMT	III	12 22 12 46.3–.10	37.56N	141.99E	15–0	5.9W,5.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ44.00000°,λ-95.00000°. NP2:ϕ_s342.00000°,δ46.00000°,λ-85.00000°. $M_0$5.81000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=7.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=97.8.
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.39 $M_{\theta\theta}$3.31 $M_{\phi\phi}$2.08 $M_{r\theta}$-1.09 $M_{\theta\phi}$-4.26 $M_{\phi r}$-2.72 Best double couple: NP1:ϕ_s336.00000° ,δ55.00000°,λ-56.00000°. NP2:ϕ_s106.00000°,δ47.00000°,λ-129.00000°. Principal axes: T 7.0800,Plg4.0000°,Azm42.0000°; N -0.1700,Plg27.0000°,Azm134.0000° ; P -6.9000,Plg62.0000°,Azm303.0000° $M_0$7.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=145.0. Recorded [3 JMA] in Fukushima, Ibaraki, Iwate, Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c279; s141,c315;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.86±.01 $M_{\theta\theta}$0.20±.01; $M_{\phi\phi}$0.66±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.20±.02; Best double couple: NP1: ϕ_s159.00000°,δ52.00000°,λ-86.00000°. NP2:ϕ_s333.00000°,δ38.00000°,λ-95.00000°. Principal axes: T 0.8060,Plg7.0000°,Azm246.0000°; N 0.0830,Plg3.0000°,Azm337.0000° ; P -0.8890,Plg83.0000°,Azm90.0000° $M_0$0.84700×10^{18}

(228) Near east coast of eastern Honshu

ISC	**III**	**12 22 31 26.7–.34**	**39.20N–.03**	**142.38E–.03**	**28–2**	**5.5b,5.3s**	**1400**	**1-162**
NIED	III	12 22 31 00	39.20N	142.50E	29	5.2W,5.3s		**¶602654615**
JMA	III	12 22 31 24.8–.20	39.20N	142.47E	24–2	5.4,5.3s		
BJI	III	12 22 31 24.0	39.09N	142.28E	27	5.9b,5.5s		
ISCJB	III	12 22 31 25.5–.67	39.14N–.02	142.38E–.02	31–4	5.4b,5.3s		
MOS	III	12 22 31 25.9–.86	39.23N	142.34E	35	5.8b,5.1s		
NEIC	III	12 22 31 27.3–.49	39.18N	142.27E	31–3	5.5b,5.3s		
GCMT	III	12 22 31 27.3–.20	39.27N	142.34E	21–2	5.3W,5.3s		
IDC	III	12 22 31 29.1–1.9	39.16N	142.35E	49–17	5.1,5.0s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ28.00000°,λ177.00000°. NP2:ϕ_s13.00000°,δ89.00000°,λ62.00000°. $M_0$7.30000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=153.8.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=94.6.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=145.0. Recorded [3 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c34; s99,c176; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.03 $M_{\theta\theta}$-0.24±.02; $M_{\phi\phi}$0.16±.02; $M_{r\theta}$0.28±.05; $M_{\theta\phi}$-0.34±.01; $M_{\phi r}$1.05±.13; Best double couple: NP1:ϕ_s16.00000°,δ88.00000° ,λ70.00000°. NP2:ϕ_s282.00000°,δ20.00000°,λ175.00000°. Principal axes: T 1.1710,Plg43.0000°,Azm267.0000°; N -0.0300,Plg20.0000°,Azm17.0000°

; P -1.1420,Plg40.0000°,Azm124.0000° $M_0$1.15700×10^{17}
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=104.0.
(229) Off east coast of Honshu

ISC	**III**	**12 23 20 40.8–.29**	**38.03N–.03**	**142.38E–.03**	**26–1**	**5.5s,5.3b**	**1156**	**1-163**
NIED	III	12 23 20 00	38.00N	142.30E	20	5.1W,5.3b		**¶16461431**
IDC	III	12 23 20 36.7–.40	37.97N	142.36E	0	5.1,5.0		
BJI	III	12 23 20 36.5	37.95N	142.63E	24	5.7s,5.5b		
JMA	III	12 23 20 38.0–.30	37.96N	142.32E	3–4	5.3,5.5b		
ISCJB	III	12 23 20 39.6–.75	37.98N–.02	142.34E–.02	26–5	5.6s,5.2b		
MOS	III	12 23 20 40.7–.89	38.06N	142.28E	35	5.6b,5.4s		
NEIC	III	12 23 20 41.0–.23	38.00N	142.28E	24–1	5.6s,5.3b		
GCMT	III	12 23 20 41.0–.40	38.15N	142.42E	32–0	5.5W,5.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ34.00000°,λ-74.00000°. NP2:ϕ_s2.00000°,δ57.00000°,λ-101.00000°. $M_0$4.71000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=151.3.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=102.1.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=143.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c54; s65,c87; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.84±.10 $M_{\theta\theta}$0.34±.06; $M_{\phi\phi}$1.50±.06; $M_{r\theta}$0.50±.11; $M_{\theta\phi}$0.10±.04; $M_{\phi r}$-0.61±.07; Best double couple: NP1:ϕ_s350.00000°,δ56.00000° ,λ-104.00000°. NP2:ϕ_s195.00000°,δ36.00000°,λ-70.00000°. Principal axes: T 1.6090,Plg10.0000°,Azm90.0000°; N 0.4520,Plg12.0000°,Azm358.0000° ; P -2.0580,Plg74.0000°,Azm220.0000° $M_0$1.83400×10^{17}
(228) Near east coast of eastern Honshu

ISC	**III**	**12 23 24 48.7–.32**	**38.02N–.02**	**141.91E–.03**	**20–1**	**6.0b,5.6s**	**2111**	**1-161**
NIED	III	12 23 24 00	38.00N	141.90E	17	5.8W,5.6s		**¶17194629**
IDC	III	12 23 24 46.3–.36	38.11N	141.81E	0	5.5,5.5		
JMA	III	12 23 24 46.9–.30	38.01N	141.95E	15–4	6.2,5.5		
BJI	III	12 23 24 46.9	37.91N	141.67E	21	6.3,6.3s		
MOS	III	12 23 24 47.4–1.3	38.09N	142.08E	33	6.0b,5.6s		
ISCJB	III	12 23 24 48.4–.47	38.04N–.01	141.79E–.01	23–3	5.8b,5.7s		
NEIC	III	12 23 24 48.8–.08	38.05N	141.72E	15	6.1W,6.0b		
GCMT	III	12 23 24 48.8–.10	38.07N	141.94E	23–0	5.8W,6.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ20.00000°,λ119.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ80.00000°. $M_0$5.06000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=9.5km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=91.4.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=144.1.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=142.0. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}1.02 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-0.88 $M_{r\theta}$0.45 $M_{\theta\phi}$-0.22 $M_{\phi r}$1.54 Best double couple: NP1:ϕ_s194.00000° ,δ16.00000°,λ88.00000°. NP2:ϕ_s16.00000°,δ74.00000°,λ90.00000°. Principal axes: T 1.9200,Plg61.0000°,Azm287.0000°; N -0.0800,Plg0.0000°,Azm196.0000° ; P -1.8400,Plg29.0000°,Azm106.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s195.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s15.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm285.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm105.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s106,c199; s118,c249; Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}3.05±.07 $M_{\theta\theta}$-0.71±.04; $M_{\phi\phi}$-2.34±.05; $M_{r\theta}$0.69±.07; $M_{\theta\phi}$-1.27±.03; $M_{\phi r}$4.59±.13; Best double couple: NP1:ϕ_s12.00000°,δ74.00000° ,λ81.00000°. NP2:ϕ_s222.00000°,δ18.00000°,λ118.00000°. Principal axes: T 5.6780,Plg60.0000°,Azm269.0000°; N -0.2690,Plg9.0000°,Azm15.0000° ; P -5.4110,Plg28.0000°,Azm109.0000° $M_0$5.54500×10^{17}
(229) Off east coast of Honshu

ISC	**III**	**12 23 37 22.3–.57**	**36.72N–.04**	**142.36E–.04**	**20–2**	**5.4s,5.0b**	**412**	**1-157**
NIED	III	12 23 37 00	36.70N	142.30E	26	4.8W,5.0b		**¶16310865**
IDC	III	12 23 37 18.6–.44	36.68N	142.35E	0	4.7,4.6		
ISCJB	III	12 23 37 19.1–1.1	36.76N–.03	142.33E–.02	6–6	5.4s,5.0b		
JMA	III	12 23 37 20.0–.40	36.69N	142.25E	4–4	5.1,5.0b		
BJI	III	12 23 37 20.6	36.46N	142.31E	25	5.6b,5.6s		
NEIC	III	12 23 37 22.9–1.2	36.73N	142.30E	22–8	5.1b,5.6s		
MOS	III	12 23 37 23.7–.78	36.98N	142.26E	32	5.1b,5.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ39.00000°,λ79.00000°. NP2:ϕ_s14.00000°,δ52.00000°,λ99.00000°. $M_0$1.72000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=10.4km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.7km az=165.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=135.0.
MOS Error ellipse: s-maj=6.9km s-min=5.1km az=87.8.
(228) Near east coast of eastern Honshu

ISC	**III**	**12 23 40 48.4–.49**	**36.63N–.04**	**141.80E–.04**	**30–3**	**5.5s,5.1b**	**835**	**1-154**
NIED	III	12 23 40 00	36.90N	141.80E	29	4.8W,5.1b		**¶17194633**
BJI	III	12 23 40 44.4	36.44N	141.95E	28	5.6b,5.5s		
JMA	III	12 23 40 47.2–.30	36.86N	141.84E	4–3	5.0,5.5s		
MOS	III	12 23 40 47.0–1.1	36.68N	141.82E	35	5.2b,5.5s		
ISCJB	III	12 23 40 48.7–.55	36.64N–.03	141.70E–.02	42–4	5.5s,5.0b		
NEIC	III	12 23 40 48.8–1.2	36.62N	141.66E	30–8	5.2b,5.0b		
IDC	III	12 23 40 48.5–.64	36.63N	141.74E	31–4	4.8,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s226.00000°,δ51.00000°,λ-98.00000°. $M_0$2.04000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.2km az=101.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=162.5.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=137.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.5km s-min=8.5km az=94.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**13 00 32 56.3–.73**	**35.99N–.04**	**140.91E–.05**	**19–3**	**4.9b**	**326**	**0-159**
NIED	III	13 00 32 00	35.90N	141.00E	8	4.8W		**¶16310872**
ISCJB	III	13 00 32 52.7–.00	36.03N–.03	140.90E–.03	4–6	6.0s,4.8b		
IDC	III	13 00 32 52.5–.45	35.90N	140.95E	0	4.6,4.6b		
JMA	III	13 00 32 53.6–.20	35.89N	141.02E	12–2	4.7,4.6b		
MOS	III	13 00 32 54.1–.81	36.01N	140.90E	15	5.0b,4.6b		
NEIC	III	13 00 32 57.2–1.1	36.01N	140.87E	24–7	4.9b,4.6b		
GCMT	III	13 00 32 57.2–.60	35.87N	140.98E	23–1	5.0W,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ51.00000°,λ-147.00000°. NP2:ϕ_s56.00000°,δ65.00000°,λ-44.00000°. $M_0$1.70000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=163.7.
IDC Error ellipse: s-maj=12.3km s-min=11.6km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.7km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=136.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c18; s54,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.79±.40 $M_{\theta\theta}$0.98±.22; $M_{\phi\phi}$2.81±.22; $M_{r\theta}$-0.49±.36; $M_{\theta\phi}$1.03±.10; $M_{\phi r}$-0.14±.24; Best double couple: NP1:ϕ_s29.00000°,δ48.00000° ,λ-83.00000°. NP2:ϕ_s199.00000°,δ43.00000°,λ-98.00000°. Principal axes: T 3.2880,Plg3.0000°,Azm115.0000°; N 0.5530,Plg5.0000°,Azm205.0000° ; P -3.8400,Plg84.0000°,Azm357.0000° $M_0$3.56400×10^{16}
(228) Near east coast of eastern Honshu

ISC	**III**	**13 01 26 06.7–.38**	**35.73N–.02**	**141.74E–.03**	**24–2**	**6.2s,5.9b**	**2070**	**1-161**
NIED	III	13 01 26 00	35.80N	142.00E	8	6.2W,5.9b		**¶602442301**
BJI	III	13 01 26 02.2	35.60N	141.80E	23	6.7s,6.5		
IDC	III	13 01 26 02.6–.32	35.76N	141.77E	0	6.2,6.2s		
JMA	III	13 01 26 02.0–.20	35.83N	141.97E	11–2	6.6,6.2s		
ISCJB	III	13 01 26 03.1–.61	35.70N–.02	141.70E–.01	10–3	6.2s,5.9b		
NEIC	III	13 01 26 04.2–.09	35.72N	141.64E	8	6.4,6.2s		
GCMT	III	13 01 26 04.2–.10	35.74N	141.81E	12	6.2W,6.2s		
NEIC	III	13 01 26 07.0–.00	35.74N	142.13E	12	6.2W,6.2s		
MOS	III	13 01 26 07.5–1.1	35.90N	141.70E	34	6.3s,6.1b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ43.00000°,λ-36.00000°. NP2:ϕ_s123.00000°,δ66.00000°,λ-127.00000°. $M_0$2.02000×10^{18}
IDC Error ellipse: s-maj=10.6km s-min=8.1km az=95.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=156.3.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=143.0. Felt [III] at Tokyo. Also felt at Hamura, Narita, Warabi and Zama. Recorded [3 JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.37 $M_{\theta\theta}$0.72 $M_{\phi\phi}$0.65 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.68 $M_{\phi r}$-1.24 Best double couple: NP1:ϕ_s333.00000°,δ67.00000°,λ-75.00000°. NP2:ϕ_s118.00000°,δ27.00000°,λ-122.00000°. Principal axes: T 1.7900,Plg21.0000° ,Azm51.0000°; N 0.1700,Plg14.0000°,Azm147.0000°; P -1.9600,Plg65.0000°,Azm268.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s175.00000°,δ7.00000°,λ-90.00000°. NP2:ϕ_s355.00000°,δ83.00000°,λ-90.00000°. Principal axes: T Plg38.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000° ,Azm265.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c296; s136,c367;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.59±.01 $M_{\theta\theta}$0.29±.01; $M_{\phi\phi}$1.30±.01; $M_{r\theta}$0.89±.03; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$-1.37±.03; Best double couple: NP1:ϕ_s330.00000°,δ68.00000°,λ-95.00000°. NP2:ϕ_s163.00000° ,δ22.00000°,λ-78.00000°. Principal axes: T 2.2090,Plg23.0000°,Azm64.0000° ; N 0.0880,Plg5.0000°,Azm332.0000°; P -2.3010,Plg66.0000°,Azm231.0000° $M_0$2.25500×10^{18}
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.23 $M_{\theta\theta}$0.31 $M_{\phi\phi}$0.92 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.47 $M_{\phi r}$-1.06 Best double couple: NP1:ϕ_s348.00000° ,δ66.00000°,λ-77.00000°. NP2:ϕ_s139.00000°,δ27.00000°,λ-116.00000°. Principal axes: T 1.5100,Plg19.0000°,Azm68.0000°; N 0.1600,Plg11.0000°,Azm162.0000° ; P -1.6700,Plg66.0000°,Azm280.0000° $M_0$1.60000×10^{18}
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=114.3.
(229) Off east coast of Honshu

ISC	**III**	**13 01 31 30.6–.43**	**37.57N–.05**	**143.84E–.05**	**35**	**4.9b**	**135**	**2-150**
MOS	III	13 01 31 26.8–1.1	37.60N	143.91E	22	5.1b		**¶16452032**
NEIC	III	13 01 31 29.1–2.0	37.51N	143.84E	22–13	5.1b		
ISCJB	III	13 01 31 29.1–.28	37.61N–.03	143.75E–.03	33	5.9s,4.8b		
JMA	III	13 01 31 30.5–.50	37.57N	143.65E	43	5.4,4.8b		
IDC	III	13 01 31 32.1–.52	37.44N	143.87E	45–4	5.9s,5.9		

ISC Event type se.
MOS Error ellipse: s-maj=9.0km s-min=6.4km az=87.6.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=166.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=145.0.
(229) Off east coast of Honshu

ISC	**III**	**13 01 42 53.4–.42**	**36.96N–.04**	**143.01E–.04**	**24–2**	**5.5b**	**1200**	**2-157**
ISCJB	III	13 01 42 49.6–1.0	36.93N–.02	142.93E–.02	6–6	5.8s,5.3b		**¶16310878**
BJI	III	13 01 42 51.5	37.00N	142.90E	22	5.9b,5.9s		
GCMT	III	13 01 42 51.2–.40	37.10N	143.24E	20–1	5.2W,5.9s		
NEIC	III	13 01 42 51.2–1.5	36.91N	142.90E	7–9	5.5b,5.9s		
JMA	III	13 01 42 52.9–.20	36.91N	142.93E	41	5.5,5.9s		
MOS	III	13 01 42 53.0–.89	37.05N	142.89E	26	5.6b,5.9s		
IDC	III	13 01 42 55.0–.53	36.91N	142.99E	35–3	5.1,5.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=165.3.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s4,c5; s72,c118; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.07 $M_{\theta\theta}$0.29±.04; $M_{\phi\phi}$0.42±.04; $M_{r\theta}$0.22±.07; $M_{\theta\phi}$0.41±.02; $M_{\phi r}$-0.37±.07; Best double couple: NP1:ϕ_s16.00000°,δ56.00000° ,λ-121.00000°. NP2:ϕ_s243.00000°,δ45.00000°,λ-53.00000°. Principal axes: T 0.7830,Plg6.0000°,Azm128.0000°; N 0.1370,Plg25.0000°,Azm35.0000° ; P -0.9200,Plg64.0000°,Azm230.0000° $M_0$0.85200×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.3km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=4.2km az=106.9.
IDC Error ellipse: s-maj=11.2km s-min=9.7km az=114.0.
(229) Off east coast of Honshu

ISC	**III**	**13 02 13 54.3–.34**	**36.58N–.05**	**143.54E–.06**	**35**	**4.7b**	**519**	**2-153**
JMA	III	13 02 13 43.7–.30	37.99N	141.93E	32	3.9		**¶602658740**
IDC	III	13 02 13 49.0–.47	36.60N	143.63E	0	4.6,4.5		
NEIC	III	13 02 13 51.0–2.2	36.59N	143.55E	10–14	4.8b,4.5		
ISCJB	III	13 02 13 52.7–.18	36.61N–.04	143.52E–.03	33	6.6s,4.6b		
MOS	III	13 02 13 54.1–.89	36.92N	143.51E	31	4.9b,4.6b		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=12.1km az=118.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.7km az=165.6.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=102.5.
(228) Near east coast of eastern Honshu

ISC	**III**	**13 02 23 30.4–.46**	**36.47N–.03**	**141.97E–.05**	**19**	**4.7b**	**124**	**1-90**
ISCJB	III	13 02 23 29.0–.31	36.48N–.02	141.99E–.03	19	5.5s,4.6b		**¶16310881**
JMA	III	13 02 23 30.5–.30	36.49N	141.91E	23	6.2,4.6b		
IDC	III	13 02 23 32.4–3.8	36.44N	141.90E	33–29	5.0,5.0s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=137.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=11.9km az=87.0.
(229) Off east coast of Honshu

ISC	**III**	**13 02 23 36.2–.36**	**36.34N–.03**	**142.34E–.03**	**20–3**	**5.8s,5.6b**	**1287**	**2-157**
BJI	III	13 02 23 33.6	36.30N	142.40E	26	6.4s,6.2		**¶17194670**
NEIC	III	13 02 23 34.5–2.2	36.34N	142.34E	10–13	5.7s,5.6b		
GCMT	III	13 02 23 34.5–.10	36.35N	142.24E	12	5.8W,5.6b		
ISCJB	III	13 02 23 36.4–.08	36.33N–.02	142.33E–.02	29	5.8s,5.5b		
MOS	III	13 02 23 36.5–.96	36.31N	142.32E	33	5.8s,5.7b		
IDC	III	13 02 23 38.9–2.2	36.31N	142.34E	38–19	5.0,4.9		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=131.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c206; s132,c296;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}5.87±.04 $M_{\theta\theta}$-3.75±.04; $M_{\phi\phi}$-2.12±.04; $M_{r\theta}$-1.93±.13; $M_{\theta\phi}$-1.06±.04; $M_{\phi r}$0.61±.14; Best double couple: NP1: ϕ_s256.00000°,δ54.00000°,λ101.00000°. NP2:ϕ_s57.00000°,δ37.00000°,λ75.00000°. Principal axes: T 6.3200,Plg77.0000°,Azm206.0000°; N -1.8270,Plg9.0000°,Azm69.0000° ; P -4.4930,Plg9.0000°,Azm338.0000° $M_0$5.40600×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=1.7km az=161.0.
MOS Error ellipse: s-maj=6.2km s-min=4.3km az=108.4.
IDC Error ellipse: s-maj=12.4km s-min=9.6km az=87.0.
(229) Off east coast of Honshu

ISC	**III**	**13 02 39 21.5–1.8**	**36.93N–.05**	**142.98E–.05**	**10–10**	**4.9b**	**303**	**2-154**
IDC	III	13 02 39 19.8–.48	36.89N	143.03E	0	4.7,4.6		**¶602658718**
ISCJB	III	13 02 39 20.2–1.2	36.94N–.03	142.91E–.03	8–7	5.3s,4.8b		
NEIC	III	13 02 39 21.7–1.8	36.96N	142.91E	7–11	4.9b,4.8b		
MOS	III	13 02 39 23.9–.84	37.25N	142.86E	25	4.9b,4.8b		
JMA	III	13 02 39 23.8–.20	36.94N	142.90E	59	4.5,4.8b		
BJI	III	13 02 39 23.5	37.17N	142.84E	25	5.6s,5.5		

ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.5km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.1km az=156.2.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=142.0.
MOS Error ellipse: s-maj=7.5km s-min=5.3km az=105.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**13 02 42 27.5–.32**	**39.74N–.04**	**144.45E–.04**	**23**	**5.0b**	**362**	**2-149**
IDC	III	13 02 42 23.7–.47	39.61N	144.50E	0	4.7,4.7		**¶16310884**
ISCJB	III	13 02 42 24.1–1.0	39.73N–.02	144.35E–.03	6–6	5.5s,4.9b		
NEIC	III	13 02 42 26.8–2.2	39.69N	144.35E	14–13	5.1b,4.9b		
JMA	III	13 02 42 26.5–.70	39.78N	144.45E	44	4.8,4.9b		
MOS	III	13 02 42 27.1–1.2	39.78N	144.37E	27	5.1b,4.9b		
BJI	III	13 02 42 27.3	39.83N	144.18E	17	5.7s,5.5		

ISC Event type se.

IDC Error ellipse: s-maj=12.1km s-min=11.5km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=146.7.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=131.0.
JMA Error ellipse: s-maj=4.4km s-min=5.1km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=103.4.

(229) Off east coast of Honshu

ISC	**III**	**13 02 48 19.0–.89**	**36.87N–.05**	**142.66E–.05**	**23–5**	**5.3s,5.0b**	**698**	**2-151**
NIED	III	13 02 48 00	36.70N	142.50E	8	4.7W,5.0b		**¶16357277**
BJI	III	13 02 48 14.9	36.69N	142.86E	22	5.6s,5.5b		
JMA	III	13 02 48 16.5–.80	36.66N	142.47E	4	5.0,5.5b		
ISCJB	III	13 02 48 16.9–1.1	36.82N–.03	142.62E–.03	19–7	5.3s,4.9b		
NEIC	III	13 02 48 17.6–1.8	36.85N	142.60E	13–11	5.1b,4.9b		
IDC	III	13 02 48 20.4–3.0	36.86N	142.67E	33–22	4.7,4.6		
MOS	III	13 02 48 20.0–1.0	36.83N	142.58E	44	5.1b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ48.00000°,λ53.00000°. NP2: ϕ_s237.00000°,δ53.00000°,λ124.00000°. $M_0$1.35000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=7.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=159.4.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.5km az=139.0.
IDC Error ellipse: s-maj=11.5km s-min=9.4km az=129.0.
MOS Error ellipse: s-maj=6.5km s-min=4.7km az=101.1.

(229) Off east coast of Honshu

ISC	**III**	**13 02 51 25.6–.28**	**36.98N–.04**	**143.33E–.04**	**35**	**5.4s,5.3b**	**955**	**2-153**
IDC	III	13 02 51 20.0–.37	36.88N	143.38E	0	4.9,4.9		**¶17194676**
MOS	III	13 02 51 21.9–1.0	36.92N	143.33E	21	5.3b,4.9		
JMA	III	13 02 51 22.0–.50	36.99N	143.26E	24	5.2,4.9		
NEIC	III	13 02 51 22.4–1.8	36.91N	143.33E	13–11	5.4b,4.9		
ISCJB	III	13 02 51 23.9–.10	36.93N–.02	143.31E–.02	33	5.5s,5.2b		
BJI	III	13 02 51 24.4	37.23N	142.94E	20	5.8b,5.5s		
GCMT	III	13 02 51 24.2–.30	37.12N	143.49E	12	5.3W,5.5s		

ISC Event type se.
IDC Error ellipse: s-maj=10.9km s-min=9.3km az=119.0.
MOS Error ellipse: s-maj=6.3km s-min=4.7km az=101.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=1.8km az=161.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s102,c173; Duration: 1$\fallingdotseq$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.88±.02 $M_{\theta\theta}$0.20±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$0.63±.10; $M_{\theta\phi}$0.27±.02; $M_{\phi r}$-0.55±.09; Best double couple: NP1:ϕ_s349.00000°,δ64.00000° ,λ-119.00000°. NP2:ϕ_s220.00000°,δ38.00000°,λ-46.00000°. Principal axes: T 0.8600,Plg14.0000°,Azm100.0000°; N 0.4930,Plg26.0000°,Azm3.0000° ; P -1.3530,Plg60.0000°,Azm216.0000° $M_0$1.10600×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**13 02 57 14.8–.89**	**36.92N–.04**	**143.34E–.04**	**26–6**	**5.3s,5.0b**	**461**	**2-160**
IDC	III	13 02 57 10.5–.36	36.83N	143.43E	0	4.8,4.8		**¶602658701**
ISCJB	III	13 02 57 13.8–.14	36.89N–.03	143.27E–.02	27	5.0s,5.0b		
NEIC	III	13 02 57 13.4–1.8	36.88N	143.30E	15–11	5.1b,5.0b		
MOS	III	13 02 57 13.3–.98	36.96N	143.32E	23	5.1b,5.0b		
GCMT	III	13 02 57 13.4–.40	37.03N	143.41E	21–1	5.3W,5.0b		
JMA	III	13 02 57 14.2–.80	37.00N	143.21E	46	5.0,5.0b		
BJI	III	13 02 57 17.4	37.24N	142.80E	25	5.5s,5.2		

ISC Event type ke.
IDC Error ellipse: s-maj=10.8km s-min=9.8km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.3km az=160.2.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=136.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=93.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s75,c111; Duration: 1$\fallingdotseq$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.09 $M_{\theta\theta}$0.39±.05; $M_{\phi\phi}$0.76±.06; $M_{r\theta}$0.00±.10; $M_{\theta\phi}$0.22±.02; $M_{\phi r}$0.02±.10; Best double couple: NP1:ϕ_s205.00000°,δ46.00000° ,λ-90.00000°. NP2:ϕ_s25.00000°,δ44.00000°,λ-90.00000°. Principal axes: T 0.8720,Plg1.0000°,Azm295.0000°; N 0.2910,Plg0.0000°,Azm205.0000° ; P -1.1600,Plg89.0000°,Azm89.0000° $M_0$1.01600×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**13 04 36 07.8–.65**	**39.83N–.06**	**144.48E–.05**	**27–3**	**4.6b**	**185**	**2-122**
NEIC	III	13 04 36 05.2–3.8	39.77N	144.50E	8–23	4.7b		**¶16461585**
ISCJB	III	13 04 36 06.0–1.4	39.95N–.03	144.43E–.04	15–9	5.6s,4.5b		
JMA	III	13 04 36 07.4–.50	39.84N	144.17E	20	4.5,4.5b		
IDC	III	13 04 36 10.2–1.5	39.97N	144.49E	35–4	4.4,4.4		
MOS	III	13 04 36 12.2–1.1	40.35N	144.49E	48	4.9b,4.4		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=5.0km az=153.8.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=39.1km s-min=13.9km az=177.0.
MOS Error ellipse: s-maj=11.2km s-min=5.8km az=107.5.

(229) Off east coast of Honshu

ISC	**III**	**13 07 04 37.5–.37**	**38.35N–.03**	**144.10E–.03**	**31–2**	**5.6b,5.1s**	**1529**	**3-158**
NIED	III	13 07 04 00	38.30N	144.20E	5	5.3W,5.1s		**¶16310908**
ISCJB	III	13 07 04 33.6–.67	38.36N–.02	144.06E–.01	12–4	5.5b,5.1s		
JMA	III	13 07 04 34.5–.30	38.34N	144.19E	48	5.4,5.1s		
MOS	III	13 07 04 35.7–.83	38.44N	144.04E	25	5.8b,5.1s		
IDC	III	13 07 04 38.1–.53	38.27N	144.15E	36–4	5.2,5.1		
BJI	III	13 07 04 38.4	38.58N	143.48E	20	5.4b,5.3s		
NEIC	III	13 07 04 38.3–.08	38.33N	144.02E	35	5.7b,5.3s		
GCMT	III	13 07 04 38.3–.10	38.37N	144.12E	12	5.3W,5.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ28.00000°,λ-81.00000°. NP2:ϕ_s176.00000°,δ63.00000°,λ-94.00000°. $M_0$1.02000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=168.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.4km s-min=3.6km az=104.9.
IDC Error ellipse: s-maj=9.4km s-min=7.9km az=97.0.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.8km az=148.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c119; s119,c238; Duration: 1$\fallingdotseq$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.07±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$1.00±.01; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$0.09±.01; $M_{\phi r}$0.45±.04; Best double couple: NP1:ϕ_s187.00000°,δ57.00000° ,λ-89.00000°. NP2:ϕ_s5.00000°,δ33.00000°,λ-92.00000°. Principal axes: T 1.1030,Plg12.0000°,Azm276.0000°; N 0.0650,Plg1.0000°,Azm6.0000° ; P -1.1640,Plg78.0000°,Azm101.0000° $M_0$1.13400×10^{17}

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ISC	**III**	**13 07 56 42.9–.39**	**39.66N–.03**	**143.32E–.03**	**18–1**	**5.6b,5.5s**	**1652**	**2-154**
NIED	III	13 07 56 00	39.60N	143.50E	14	5.7W,5.5s		**¶602658221**
IDC	III	13 07 56 39.9–.33	39.64N	143.40E	0	5.4,5.4		
JMA	III	13 07 56 39.8–.30	39.64N	143.45E	6	5.8,5.4		
MOS	III	13 07 56 41.4–.91	39.75N	143.27E	16	5.9b,5.7s		
BJI	III	13 07 56 41.9	39.70N	143.15E	20	6.0,6.0b		
ISCJB	III	13 07 56 41.1–.66	39.64N–.02	143.24E–.02	14–4	5.6b,5.5s		
GCMT	III	13 07 56 42.5–.10	39.60N	143.55E	22–0	5.7W,5.5s		
NEIC	III	13 07 56 42.5–.10	39.64N	143.18E	13	5.7W,5.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ16.00000°,λ62.00000°. NP2:ϕ_s33.00000°,δ76.00000°,λ98.00000°. $M_0$3.81000×10^{17}
IDC Error ellipse: s-maj=10.3km s-min=8.4km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.4km s-min=3.6km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=162.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c188; s130,c274; Duration: 1$\fallingdotseq$7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.20±.05 $M_{\theta\theta}$-0.09±.03; $M_{\phi\phi}$-2.11±.04; $M_{r\theta}$1.65±.07; $M_{\theta\phi}$-0.55±.02; $M_{\phi r}$3.01±.10; Best double couple: NP1:ϕ_s26.00000°,δ74.00000° ,λ97.00000°. NP2:ϕ_s183.00000°,δ18.00000°,λ67.00000°. Principal axes: T 4.1170,Plg61.0000°,Azm306.0000°; N -0.0500,Plg7.0000°,Azm204.0000° ; P -4.0630,Plg28.0000°,Azm111.0000° $M_0$4.09000×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=144.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.95 $M_{\theta\theta}$-0.74 $M_{\phi\phi}$-2.21 $M_{r\theta}$1.41 $M_{\theta\phi}$-1.14 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s208.00000°,δ22.00000°,λ89.00000°. NP2: ϕ_s29.00000°,δ68.00000°,λ90.00000°. Principal axes: T 4.1500,Plg67.0000°,Azm299.0000° ; N -0.1200,Plg0.0000°,Azm209.0000°; P -4.0300,Plg23.0000°,Azm119.0000° $M_0$4.10000×10^{17}

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ISC	**III**	**13 08 26 20.6–.43**	**37.44N–.05**	**143.70E–.05**	**28–2**	**4.9b,4.7s**	**346**	**2-145**
IDC	III	13 08 26 15.8–.44	37.34N	143.85E	0	4.6,4.5		**¶16310912**
ISCJB	III	13 08 26 16.2–1.1	37.44N–.03	143.70E–.03	6–6	4.8b,4.7s		
JMA	III	13 08 26 18.6–.40	37.38N	143.68E	49	4.8,4.7s		
MOS	III	13 08 26 18.6–.96	37.38N	143.75E	27	5.2b,4.7s		
NEIC	III	13 08 26 19.2–1.7	37.40N	143.72E	18–10	5.1b,4.7s		
GCMT	III	13 08 26 19.2–.40	37.55N	143.82E	13–1	4.8W,4.7s		
BJI	III	13 08 26 22.2	37.65N	143.19E	25	5.5b,5.0s		

ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.3km az=158.8.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=5.2km az=97.9.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=139.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s6,c7; s73,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.30±.23 $M_{\theta\theta}$0.47±.12; $M_{\phi\phi}$1.83±.15; $M_{r\theta}$0.57±.39; $M_{\theta\phi}$0.52±.08; $M_{\phi r}$0.06±.34; Best double couple: NP1:ϕ_s210.00000°,δ49.00000° ,λ-76.00000°. NP2:ϕ_s8.00000°,δ43.00000°,λ-106.00000°. Principal axes: T 2.0190,Plg3.0000°,Azm290.0000°; N 0.3880,Plg11.0000°,Azm20.0000° ; P -2.4120,Plg79.0000°,Azm183.0000° $M_0$2.21600×10^{16}

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ISC	**III**	**13 09 25 06.8–.39**	**39.04N–.03**	**142.56E–.03**	**20–3**	**5.4b,4.9s**	**1409**	**1-159**
NIED	III	13 09 25 00	39.00N	142.70E	5	5.2W,4.9s		**¶17194816**
IDC	III	13 09 25 03.7–.42	39.01N	142.59E	0	5.1,5.1		
BJI	III	13 09 25 04.9	38.95N	142.38E	18	5.5b,5.3b		
JMA	III	13 09 25 04.0–.20	39.04N	142.67E	10–2	5.5,5.3b		
ISCJB	III	13 09 25 04.7–.66	38.97N–.02	142.61E–.02	15–4	5.3b,4.9s		
MOS	III	13 09 25 06.5–.86	39.19N	142.52E	22	5.6b,4.7s		
NEIC	III	13 09 25 08.0–1.0	39.02N	142.44E	25–7	5.4b,4.7s		
GCMT	III	13 09 25 08.0–.10	39.10N	142.56E	12	5.2W,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ40.00000°,λ-117.00000°. NP2:ϕ_s305.00000°,δ55.00000°,λ-69.00000°. $M_0$6.01000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=10.7km az=127.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=163.0.
MOS Error ellipse: s-maj=5.7km s-min=4.0km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=139.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c71; s109,c203; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.18±.10 $M_{\theta\theta}$6.12±.09; $M_{\phi\phi}$0.06±.10; $M_{r\theta}$1.38±.30; $M_{\theta\phi}$-1.76±.08; $M_{\phi r}$0.74±.41; Best double couple: NP1:ϕ_s275.00000°,δ51.00000° ,λ-103.00000°. NP2:ϕ_s115.00000°,δ41.00000°,λ-75.00000°. Principal axes: T 6.6970,Plg5.0000°,Azm14.0000°; N -0.2210,Plg10.0000°,Azm283.0000° ; P -6.4700,Plg79.0000°,Azm131.0000° $M_0$6.58300×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**13 09 52 31.0–.25**	**38.86N–.03**	**142.02E–.03**	**39–2**	**5.3b,5.1s**	**1222**	**1-165**
NIED	III	13 09 52 00	38.80N	142.10E	47	5.6W,5.1s		**¶16310922**
BJI	III	13 09 52 28.8	38.75N	141.98E	40	5.7b,5.2		
ISCJB	III	13 09 52 30.3–.49	38.91N–.02	141.92E–.02	39–4	5.3b,5.1s		
JMA	III	13 09 52 30.8–.10	38.81N	142.12E	42–2	5.6,5.1s		
NEIC	III	13 09 52 31.0–.10	38.85N	141.86E	33	5.6W,5.4b		
GCMT	III	13 09 52 31.0–.10	38.90N	142.20E	50–0	5.6W,5.4b		
MOS	III	13 09 52 31.6–.86	39.12N	141.87E	42	5.6b,5.2s		
IDC	III	13 09 52 31.6–1.8	38.80N	141.97E	43–16	5.3,5.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ97.00000°. $M_0$2.46000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.2km az=162.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=144.0. Recorded [3 JMA] in Iwate. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.98 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-1.84 $M_{r\theta}$0.61 $M_{\theta\phi}$-1.66 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s217.00000°,δ30.00000°,λ99.00000°. NP2:ϕ_s27.00000°,δ60.00000°,λ85.00000°. Principal axes: T 2.3500,Plg75.0000° ,Azm284.0000°; N 0.8600,Plg4.0000°,Azm30.0000°; P -3.2100,Plg15.0000°,Azm121.0000° $M_0$2.90000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c197; s116,c246;Duration: 1$\fallingdotseq$5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36±.04 $M_{\theta\theta}$0.07±.03; $M_{\phi\phi}$-2.43±.03; $M_{r\theta}$0.87±.03; $M_{\theta\phi}$-0.51±.03; $M_{\phi r}$1.68±.04; Best double couple: NP1:ϕ_s21.00000° ,δ64.00000°,λ100.00000°. NP2:ϕ_s180.00000°,δ28.00000°,λ71.00000°. Principal axes: T 3.0500,Plg69.0000°,Azm311.0000°; N 0.0880,Plg9.0000°,Azm197.0000° ; P -3.1400,Plg19.0000°,Azm104.0000° $M_0$3.09500×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=103.6.
IDC Error ellipse: s-maj=12.1km s-min=9.4km az=94.0.

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ISC	**III**	**13 11 37 31.3–.29**	**37.36N–.03**	**142.39E–.03**	**24–1**	**5.7b,5.6s**	**1914**	**1-160**
NIED	III	13 11 37 00	37.40N	142.40E	17	5.7W,5.6s		**¶16310931**
BJI	III	13 11 37 25.8	37.45N	142.65E	23	6.1,6.1s		
JMA	III	13 11 37 27.3–.20	37.40N	142.43E	2–2	6.1,6.1s		
IDC	III	13 11 37 27.2–.35	37.34N	142.49E	0	5.5b,5.5		
GCMT	III	13 11 37 30.4–.10	37.42N	142.34E	15–0	5.8W,5.5		
ISCJB	III	13 11 37 30.5–.07	37.33N–.02	142.40E–.01	26	5.7s,5.7b		
NEIC	III	13 11 37 30.4–.07	37.35N	142.39E	17	5.8,5.8W		
MOS	III	13 11 37 30.8–.89	37.34N	142.39E	30	5.9b,5.6s		
NEIC	III	13 11 37 31.0–.00	37.35N	142.42E	24	5.9b,5.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ50.00000°,λ-129.00000°. NP2:ϕ_s168.00000°,δ53.00000°,λ-53.00000°. $M_0$4.16000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=9.3km az=90.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c253; s133,c308;Duration: 2$\fallingdotseq$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.88±.05 $M_{\theta\theta}$1.40±.04; $M_{\phi\phi}$3.48±.04; $M_{r\theta}$4.55±.15; $M_{\theta\phi}$-1.85±.03; $M_{\phi r}$3.72±.14; Best double couple: NP1: ϕ_s196.00000°,δ69.00000°,λ-62.00000°. NP2:ϕ_s320.00000°,δ35.00000°,λ-140.00000°. Principal axes: T 4.9050,Plg19.0000°,Azm265.0000°; N 3.7820,Plg26.0000°,Azm5.0000° ; P -8.6860,Plg57.0000°,Azm144.0000° $M_0$6.79600×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=161.6.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=140.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s70 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.48 $M_{\theta\theta}$1.73 $M_{\phi\phi}$2.75 $M_{r\theta}$2.32 $M_{\theta\phi}$-2.35 $M_{\phi r}$1.73 Best double couple: NP1:ϕ_s297.00000°,δ52.00000°,λ-125.00000°. NP2:ϕ_s165.00000° ,δ50.00000°,λ-54.00000°. Principal axes: T 4.6500,Plg1.0000°,Azm51.0000° ; N 1.2900,Plg27.0000°,Azm320.0000°; P -5.9300,Plg63.0000°,Azm142.0000° $M_0$5.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm295.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000° ,Azm115.0000°
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=109.9.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.98 $M_{\theta\theta}$1.66 $M_{\phi\phi}$2.32 $M_{r\theta}$2.87 $M_{\theta\phi}$-1.87 $M_{\phi r}$0.14 Best double couple: NP1:ϕ_s296.00000° ,δ62.00000°,λ-113.00000°. NP2:ϕ_s158.00000°,δ36.00000°,λ-53.00000°. Principal axes: T 4.3200,Plg13.0000°,Azm42.0000°; N 0.9700,Plg20.0000°,Azm307.0000° ; P -5.2800,Plg64.0000°,Azm163.0000° $M_0$4.90000×10^{17}

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ISC	**III**	**13 13 16 31.4–.51**	**34.32N–.03**	**141.74E–.04**	**25–3**	**5.5s,5.0b**	**764**	**1-154**
JMA	III	13 13 16 27.8–.40	34.29N	141.97E	29–3	4.7,5.0b		**¶16310943**
BJI	III	13 13 16 27.8	34.39N	141.60E	11	5.8s,5.7		
IDC	III	13 13 16 27.7–.43	34.33N	141.71E	0	5.4,5.3s		
MOS	III	13 13 16 28.7–1.3	34.33N	141.65E	17	5.5s,5.1b		
ISCJB	III	13 13 16 30.9–.80	34.30N–.03	141.62E–.02	29–5	5.5s,4.9b		
GCMT	III	13 13 16 33.5–.10	34.33N	141.97E	15–0	5.4W,4.9b		
NEIC	III	13 13 16 33.5–.67	34.33N	141.61E	35–6	5.1b,4.9b		

ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=109.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=108.3.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c133; s127,c246; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.36±.03 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$-1.31±.02; $M_{r\theta}$-0.02±.06; $M_{\theta\phi}$0.15±.01; $M_{\phi r}$1.07±.06; Best double couple: NP1:ϕ_s357.00000°,δ64.00000°,λ93.00000°. NP2:ϕ_s170.00000°,δ26.00000°,λ84.00000°. Principal axes: T 1.7360,Plg71.0000°,Azm273.0000°; N -0.0380,Plg3.0000°,Azm175.0000°; P -1.6990,Plg19.0000°,Azm85.0000° $M_0$1.71800×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=134.0.

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ISC	**III**	**13 14 48 02.0–.37**	**37.81N–.02**	**142.65E–.02**	**16–2**	**5.3b,5.2s**	**1243**	**2-154**	
IDC	III	13 14 47 57.6–.44	37.61N	142.99E	0	5.1,5.1			**¶17194897**
BJI	III	13 14 48 00.4	37.77N	142.50E	15	5.7b,5.5s			
JMA	III	13 14 48 00.6–.50	37.59N	142.88E	11	5.7,5.5s			
NIED	III	13 14 48 00	37.60N	142.90E	8	5.4W,5.5s			
MOS	III	13 14 48 01.4–.95	38.01N	142.82E	23	5.6b,5.4s			
GCMT	III	13 14 48 01.4–.10	37.78N	142.99E	17–0	5.4W,5.4s			
NEIC	III	13 14 48 01.4–2.1	37.77N	142.78E	18–13	5.4b,5.1s			
ISCJB	III	13 14 48 01.7–.09	37.90N–.02	142.50E–.02	16	5.3b,5.2s			

ISC Event type se.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ31.00000°,λ-56.00000°. NP2:ϕ_s343.00000°,δ65.00000°,λ-108.00000°. $M_0$1.29000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c135; s120,c248;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.29±.03 $M_{\theta\theta}$-0.08±.02; $M_{\phi\phi}$1.38±.02; $M_{r\theta}$0.40±.05; $M_{\theta\phi}$0.07±.01; $M_{\phi r}$-1.12±.05; Best double couple: NP1:ϕ_s348.00000°,δ66.00000°,λ-103.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ-64.00000°. Principal axes: T 1.7900,Plg20.0000°,Azm88.0000°; N 0.0080,Plg12.0000°,Azm353.0000°; P -1.7910,Plg66.0000°,Azm235.0000° $M_0$1.79000×10^{17}
NEIC Event type se.
ISCJB Event type fe.

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ISC	**III**	**13 15 08 49.3–.38**	**36.94N–.04**	**144.49E–.05**	**26**	**5.0b,4.8s**	**312**	**3-150**	
NIED	III	13 15 08 00	36.90N	144.40E	5	5.0W,4.8s			**¶16409284**
IDC	III	13 15 08 45.0–.46	36.80N	144.58E	0	4.6,4.5			
ISCJB	III	13 15 08 48.0–.18	36.97N–.03	144.40E–.02	26	4.9s,4.9b			
BJI	III	13 15 08 47.5	37.06N	144.55E	22	5.5b,5.0s			
GCMT	III	13 15 08 48.6–.30	36.72N	144.44E	12	5.2W,5.0s			
MOS	III	13 15 08 48.9–.96	37.15N	144.48E	26	5.2b,5.0s			
NEIC	III	13 15 08 48.6–.67	36.90N	144.47E	21–4	5.1b,5.0s			
JMA	III	13 15 08 49.0–.30	36.92N	144.37E	62	4.9,5.0s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ12.00000°,λ-78.00000°. NP2:ϕ_s171.00000°,δ78.00000°,λ-93.00000°. $M_0$3.46000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=10.6km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.6km az=163.3.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c17; s71,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.02±.14 $M_{\theta\theta}$0.12±.16; $M_{\phi\phi}$4.14±.10; $M_{r\theta}$-4.65±.63; $M_{\theta\phi}$-0.65±.13; $M_{\phi r}$4.04±.49; Best double couple: NP1:ϕ_s141.00000°,δ75.00000°,λ-107.00000°. NP2:ϕ_s10.00000°,δ23.00000°,λ-43.00000°. Principal axes: T 6.8060,Plg28.0000°,Azm244.0000°; N 1.1030,Plg16.0000°,Azm145.0000°; P -7.9070,Plg57.0000°,Azm28.0000° $M_0$7.35600×10^{16}
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=96.3.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 15 10 52.4–.35**	**35.52N–.04**	**140.93E–.04**	**36–1**	**5.1b,4.7s**	**555**	**0-153**	
NIED	III	13 15 10 00	35.60N	141.10E	32	5.1W,4.7s			**¶16310952**
BJI	III	13 15 10 46.8	35.47N	141.27E	35	5.5b,5.1b			
ISCJB	III	13 15 10 51.4–.40	35.50N–.03	140.84E–.03	39–3	5.0b,4.7s			
JMA	III	13 15 10 51.0–.20	35.56N	141.08E	36–1	5.1,4.7s			
GCMT	III	13 15 10 52.5–.20	35.61N	141.06E	36–0	5.2W,4.7s			
NEIC	III	13 15 10 52.5–.13	35.47N	140.83E	35	5.0b,4.7s			
IDC	III	13 15 10 52.2–3.2	35.50N	140.85E	31–23	5.0,4.9			
MOS	III	13 15 10 53.5–.86	35.83N	140.84E	44	5.5b,4.5s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ11.00000°,λ35.00000°. NP2:ϕ_s9.00000°,δ84.00000°,λ99.00000°. $M_0$4.98000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=152.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c93; s75,c129; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.03 $M_{\theta\theta}$-0.18±.02; $M_{\phi\phi}$-0.56±.02; $M_{r\theta}$0.03±.02; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$0.55±.02; Best double couple: NP1:ϕ_s6.00000°,δ65.00000°,λ87.00000°. NP2:ϕ_s192.00000°,δ25.00000°,λ96.00000°. Principal axes: T 0.9410,Plg70.0000°,Azm271.0000°; N -0.1690,Plg2.0000°,Azm7.0000°; P -0.7710,Plg20.0000°,Azm98.0000° $M_0$0.85600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=153.0. Felt at Ina, Narita and Yokosuka. Recorded [3 JMA] in Chiba.
IDC Error ellipse: s-maj=12.7km s-min=9.9km az=105.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=111.4.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 17 55 23.9–.43**	**35.19N–.02**	**141.11E–.03**	**23–2**	**5.5b,5.4s**	**1502**	**1-159**	
NIED	III	13 17 55 00	35.20N	141.20E	23	5.6W,5.4s			**¶602443467**
ISCJB	III	13 17 55 19.8–.71	35.14N–.02	141.04E–.02	3–4	5.5b,5.5s			
IDC	III	13 17 55 20.7–.30	35.18N	141.15E	0	5.4s,5.4			
GCMT	III	13 17 55 21.6–.10	35.28N	141.30E	15	5.7W,5.4			
NEIC	III	13 17 55 21.6–2.6	35.15N	141.10E	10–16	5.6W,5.5b			
BJI	III	13 17 55 22.0	35.20N	141.00E	24	5.6,5.6s			
JMA	III	13 17 55 24.5–.20	35.25N	141.23E	16–4	5.7,5.6s			
MOS	III	13 17 55 24.5–1.1	35.16N	141.14E	37	5.7b,5.5s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ22.00000°,λ5.00000°. NP2:ϕ_s48.00000°,δ88.00000°,λ112.00000°. $M_0$2.57000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=160.4.
IDC Error ellipse: s-maj=10.5km s-min=7.3km az=85.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c144; s101,c206; Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.02 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$2.78±.07; $M_{\theta\phi}$-0.80±.01; $M_{\phi r}$2.14±.07; Best double couple: NP1:ϕ_s53.00000°,δ83.00000°,λ97.00000°. NP2:ϕ_s188.00000°,δ10.00000°,λ46.00000°. Principal axes: T 3.4420,Plg51.0000°,Azm330.0000°; N 0.3840,Plg7.0000°,Azm232.0000°; P -3.8270,Plg38.0000°,Azm137.0000° $M_0$3.63500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=132.0. Felt at Kawasaki, Tokyo, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Kanagawa, Saitama and Tokyo. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}1.21 $M_{\theta\theta}$-0.92 $M_{\phi\phi}$-0.29 $M_{r\theta}$2.40 $M_{\theta\phi}$0.23 $M_{\phi r}$1.48 Best double couple: NP1:ϕ_s284.00000°,δ12.00000°,λ131.00000°. NP2:ϕ_s62.00000°,δ81.00000°,λ82.00000°. Principal axes: T 3.3000,Plg53.0000°,Azm323.0000°; N -0.6300,Plg8.0000°,Azm63.0000°; P -2.6600,Plg36.0000°,Azm159.0000° $M_0$3.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=113.3.

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ISC	**III**	**13 22 26 07.4–.37**	**35.93N–.04**	**141.93E–.05**	**23**	**4.9b**	**224**	**1-150**	
NIED	III	13 22 26 00	36.00N	142.10E	11	4.6W			**¶16477260**
IDC	III	13 22 26 04.3–.43	35.90N	141.84E	0	4.8,4.7			
NEIC	III	13 22 26 04.7–2.5	35.93N	141.86E	3–15	5.0b,4.7			
JMA	III	13 22 26 05.3–.30	36.03N	142.09E	24	5.0,4.7			
ISCJB	III	13 22 26 06.2–.23	35.94N–.03	141.93E–.04	23	5.6s,4.9b			
MOS	III	13 22 26 06.7–1.0	35.99N	141.94E	27	5.3b,4.9b			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ21.00000°,λ110.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ82.00000°. $M_0$9.67000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=10.8km az=107.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=125.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.7km az=141.1.
MOS Error ellipse: s-maj=9.5km s-min=5.2km az=113.9.

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ISC	**III**	**14 01 02 40.1–.33**	**36.44N–.02**	**141.07E–.03**	**24–2**	**5.9b,5.6s**	**1669**	**1-158**	
NIED	III	14 01 02 00	36.50N	141.10E	8	5.7W,5.6s			**¶602443480**
BJI	III	14 01 02 38.0	36.40N	140.90E	11	6.0s,5.8b			
GCMT	III	14 01 02 38.6–.10	36.43N	141.08E	12	5.7W,5.8b			
JMA	III	14 01 02 38.7	36.46N	141.13E	32–2	6.2,5.8b			
NEIC	III	14 01 02 38.6–.08	36.41N	140.89E	11	6.4,6.0b			
ISCJB	III	14 01 02 39.6–.50	36.41N–.02	140.96E–.02	27–3	5.8b,5.6s			
MOS	III	14 01 02 39.9–.94	36.45N	140.96E	30	6.0b,5.6s			
IDC	III	14 01 02 40.6–.44	36.46N	140.97E	22–2	5.5,5.5s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ63.00000°,λ-160.00000°. NP2:ϕ_s227.00000°,δ72.00000°,λ-28.00000°. $M_0$3.91000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c188; s131,c292;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.55±.04 $M_{\theta\theta}$-2.98±.04; $M_{\phi\phi}$4.53±.04; $M_{r\theta}$1.22±.11; $M_{\theta\phi}$1.24±.04; $M_{\phi r}$0.30±.11; Best double couple: NP1:ϕ_s230.00000°,δ74.00000°,λ-24.00000°. NP2:ϕ_s327.00000°,δ67.00000°,λ-163.00000°. Principal axes: T 4.7680,Plg5.0000°,Azm280.0000°; N -0.9820,Plg62.0000°,Azm18.0000°; P -3.7860,Plg28.0000°,Azm187.0000° $M_0$4.27700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=134.0. Felt [III] at Sagamihara. Also felt at Atsugi, Miura, Mizuho, Tachikawa, Tokyo, Tsukuba and Yokosuka. Recorded [5L JMA] in Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17} Nm; M_{rr}1.88 $M_{\theta\theta}$0.05 $M_{\phi\phi}$-1.93 $M_{r\theta}$-0.53 $M_{\theta\phi}$-1.68 $M_{\phi r}$0.07 Best double couple: NP1: ϕ_s7.00000°,δ48.00000°,λ57.00000°. NP2:ϕ_s231.00000°,δ52.00000°,λ121.00000°. Principal axes: T 2.1100,Plg66.0000°,Azm205.0000°; N 0.7900,Plg24.0000°,Azm31.0000°; P -2.9000,Plg2.0000°,Azm300.0000° $M_0$2.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s31.00000°,δ85.00000°,λ-165.00000°. NP2: ϕ_s300.00000°,δ75.00000°,λ-5.00000°. Principal axes: T Plg7.0000°,Azm165.0000°; N Plg0.0000°,Azm0.0000°; P Plg14.0000°,Azm257.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=160.6.
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=106.8.
IDC Error ellipse: s-maj=10.7km s-min=7.7km az=93.0.

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ISC	**III**	**14 01 04 47.7–.57**	**34.79N–.08**	**141.25E–.09**	**48**	**5.0b**	**50**	**2-126**	
IDC	III	14 01 04 41.3–.61	34.77N	141.21E	0	5.5,5.4s			**¶16409285**
NEIC	III	14 01 04 45.9–3.9	34.75N	141.13E	31–27	4.7b,5.4s			
ISCJB	III	14 01 04 46.0–.41	34.79N–.05	141.21E–.08	48	5.5s,5.0b			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

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ISC	**III**	**14 03 15 52.3–.44**	**36.22N–.03**	**142.16E–.03**	**31–2**	**5.5b,5.1s**	**1262**	**1-165**	
NIED	III	14 03 15 00	36.40N	141.70E	5	5.3W,5.1s			**¶16311629**
IDC	III	14 03 15 48.1–.39	36.31N	142.19E	0	4.9s,4.9			
BJI	III	14 03 15 48.4	36.30N	142.10E	16	5.5s,5.4b			
ISCJB	III	14 03 15 49.6–.78	36.27N–.02	142.15E–.02	20–5	5.4b,5.1s			
GCMT	III	14 03 15 50.5–.20	36.40N	142.33E	12	5.3W,5.1s			
NEIC	III	14 03 15 50.5–.11	36.28N	142.08E	16	5.7b,5.4W			
MOS	III	14 03 15 52.7–.91	36.53N	142.10E	33	5.8b,5.1s			
JMA	III	14 03 15 56.2–.30	36.35N	141.65E	30–4	5.5,5.1s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ37.00000°,λ134.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ63.00000°. $M_0$9.26000×10^{16}
IDC Error ellipse: s-maj=11.3km s-min=10.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=156.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s67,c120; s97,c200;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.85±.02 $M_{\theta\theta}$-0.53±.02; $M_{\phi\phi}$-0.32±.02; $M_{r\theta}$-0.21±.05; $M_{\theta\phi}$-0.73±.01; $M_{\phi r}$0.69±.05; Best double couple: NP1: ϕ_s19.00000°,δ62.00000°,λ53.00000°. NP2:ϕ_s257.00000°,δ45.00000°,λ138.00000°. Principal axes: T 1.3130,Plg56.0000°,Azm239.0000°; N -0.1000,Plg32.0000°,Azm39.0000°; P -1.2130,Plg9.0000°,Azm135.0000° $M_0$1.26300×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=143.0. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.01 $M_{\theta\theta}$-0.27 $M_{\phi\phi}$-0.73 $M_{r\theta}$0.13 $M_{\theta\phi}$-1.08 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s235.00000°,δ39.00000°,λ113.00000°. NP2:ϕ_s26.00000°,δ54.00000°,λ72.00000°. Principal axes: T 1.0900,Plg74.0000°,Azm246.0000°; N 0.5700,Plg14.0000°,Azm36.0000°; P -1.6600,Plg8.0000°,Azm129.0000° $M_0$1.50000×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=110.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

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ISC	**III**	**14 03 18 46.3–.50**	**39.26N–.04**	**144.43E–.04**	**28–2**	**5.3b,5.3s**	**903**	**2-158**	
IDC	III	14 03 18 41.8–.47	39.13N	144.43E	0	5.0,4.9			**¶16477713**
ISCJB	III	14 03 18 42.0–.89	39.21N–.03	144.40E–.02	9–5	5.3s,5.2b			
MOS	III	14 03 18 43.8–.96	39.13N	144.44E	24	5.6b,5.2b			
JMA	III	14 03 18 44.3–.40	39.29N	144.44E	47	5.2,5.2b			
BJI	III	14 03 18 45.1	39.42N	144.40E	28	5.4b,5.4s			
GCMT	III	14 03 18 46.3–.30	39.45N	144.51E	18–1	5.2W,5.4s			
NEIC	III	14 03 18 46.3–1.3	39.16N	144.40E	30–9	5.4b,5.4s			

ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.0km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=167.7.
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=100.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c32; s77,c106; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.04 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$0.62±.03; $M_{r\theta}$-0.04±.08; $M_{\theta\phi}$-0.04±.02; $M_{\phi r}$-0.58±.07; Best double couple: NP1:ϕ_s1.00000°,δ66.00000°,λ-86.00000°. NP2:ϕ_s171.00000°,δ25.00000°,λ-99.00000°. Principal axes: T 0.8360,Plg20.0000°,Azm88.0000°; N 0.0870,Plg4.0000°,Azm179.0000°; P -0.9230,Plg69.0000°,Azm278.0000° $M_0$0.88000×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=144.0.

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ISC	**III**	**14 03 20 41.5–.65**	**36.66N–.04**	**141.88E–.04**	**33–2**	**5.3s,5.2b**	**813**	**1-154**	
NIED	III	14 03 20 00	36.70N	141.80E	26	5.1W,5.2b			**¶16407526**
IDC	III	14 03 20 36.6–.42	36.63N	141.75E	0	5.0,4.9			
BJI	III	14 03 20 38.7	36.68N	141.81E	27	5.5b,5.4s			
NEIC	III	14 03 20 41.7–1.6	36.64N	141.72E	33–11	5.2b,5.4s			
GCMT	III	14 03 20 41.7–.40	36.73N	141.98E	32–0	5.3W,5.4s			
ISCJB	III	14 03 20 41.1–.48	36.60N–.03	141.81E–.02	40–4	5.2s,5.1b			
MOS	III	14 03 20 41.6–.89	36.91N	141.80E	33	5.4b,5.1b			
JMA	III	14 03 20 42.0–.40	36.68N	141.75E	40–5	5.3,5.1b			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s16.00000°,δ56.00000°,λ-87.00000°. $M_0$4.57000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=11.3km az=103.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=160.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c50; s85,c123; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.88±.04 $M_{\theta\theta}$0.06±.03; $M_{\phi\phi}$0.81±.03; $M_{r\theta}$-0.16±.04; $M_{\theta\phi}$0.10±.01; $M_{\phi r}$-0.36±.03; Best double couple: NP1:ϕ_s14.00000°,δ57.00000°,λ-83.00000°. NP2:ϕ_s182.00000°,δ33.00000°,λ-101.00000°. Principal axes: T 0.9100,Plg12.0000°,Azm99.0000°; N 0.0580,Plg6.0000°,Azm191.0000°; P -0.9670,Plg77.0000°,Azm306.0000° $M_0$0.93900×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=172.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

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ISC	**III**	**14 06 12 36.7–.32**	**37.78N–.03**	**142.50E–.02**	**19–1**	**6.0b,6.0s**	**2153**	**2-161**	
NIED	III	14 06 12 00	37.80N	142.60E	17	6.0W,6.0s			**¶602443509**
BJI	III	14 06 12 30.2	37.80N	142.75E	10	6.5s,6.4			
ISCJB	III	14 06 12 32.5–.65	37.76N–.02	142.52E–.01	2–4	6.0s,6.0b			
IDC	III	14 06 12 33.7–.29	37.76N	142.53E	0	6.1s,6.0			
JMA	III	14 06 12 33.9–.30	37.80N	142.59E	7	6.5,6.0			
NEIC	III	14 06 12 36.0–.00	37.77N	143.02E	15	6.5,6.0			
GCMT	III	14 06 12 36.1–.10	37.77N	142.62E	20–0	6.0W,6.0			

NEIC III 14 06 12 36.1–.06 37.79N 142.46E 14 6.3,6.0W
MOS III 14 06 12 37.7–.80 37.89N 142.50E 33 6.2b,6.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ40.00000°,λ-177.00000°. NP2:ϕ_s47.00000°,δ88.00000°,λ-50.00000°. $M_0$1.03000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=160.9.
IDC Error ellipse: s-maj=10.4km s-min=8.4km az=90.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ79.00000°,λ-71.00000°. NP2:ϕ_s153.00000°,δ21.00000°,λ-149.00000°. Principal axes: T 1.2300,Plg31.0000°,Azm109.0000°; N -0.1100,Plg18.0000°,Azm210.0000° ; P -1.1200,Plg52.0000°,Azm326.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c270; s137,c359;Duration: 2^{s}5 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.54±.01 $M_{\theta\theta}$-0.34±.01; $M_{\phi\phi}$0.87±.01; $M_{r\theta}$-0.69±.02; $M_{\theta\phi}$0.13±.01; $M_{\phi r}$-0.81±.02; Best double couple: NP1:ϕ_s36.00000°,δ76.00000°,λ-66.00000°. NP2:ϕ_s153.00000°,δ28.00000°,λ-149.00000°. Principal axes: T 1.3490,Plg27.0000°,Azm107.0000°; N -0.0640,Plg23.0000°,Azm209.0000° ; P -1.2850,Plg53.0000°,Azm334.0000° $M_0$1.31700×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=138.0. Recorded [4 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ79.00000°,λ-69.00000°. NP2:ϕ_s143.00000°,δ24.00000°,λ-152.00000°. Principal axes: T 1.0700,Plg31.0000°,Azm99.0000°; N 0.0300,Plg21.0000°,Azm202.0000° ; P -1.1000,Plg51.0000°,Azm321.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ5.00000°,λ-90.00000°. NP2:ϕ_s45.00000°,δ85.00000°,λ-90.00000°. Principal axes: T Plg40.0000°,Azm135.0000° ; N Plg0.0000°,Azm0.0000°; P Plg50.0000°,Azm315.0000°
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=106.2.

(226) Near west coast of eastern Honshu

ISC	**III**	**14 06 17 49.0–.45**	**37.67N–.05**	**142.53E–.06**	**21**	**5.0b**	**84**	**2-151**
ISCJB	III	14 06 17 47.1–.32	37.69N–.03	142.62E–.04	21	5.5s,4.8b		**¶602660755**
JMA	III	14 06 17 47.6–.30	37.72N	142.43E	4	5.3,4.8b		
NEIC	III	14 06 17 49.7–1.6	37.69N	142.60E	25–11	4.7b,4.8b		
IDC	III	14 06 17 51.5–2.9	37.70N	142.54E	38–24	4.8,4.6		
BJI	III	14 06 18 24.9	37.90N	138.30E	40	5.6,5.6b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=39.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.2km az=118.0.
IDC Error ellipse: s-maj=15.1km s-min=12.8km az=143.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 06 27 25.2–.55**	**36.70N–.03**	**142.03E–.04**	**25–3**	**5.3s,5.2b**	**471**	**1-146**
NIED	III	14 06 27 00	36.70N	142.30E	14	5.2W,5.2b		**¶16477752**
JMA	III	14 06 27 21.5–.40	36.73N	142.31E	20	5.3,5.2b		
IDC	III	14 06 27 26.4–2.5	36.61N	142.16E	40–22	5.0,5.0s		
BJI	III	14 06 27 26.1	36.71N	141.77E	35	5.6b,5.5s		
ISCJB	III	14 06 27 27.4–.56	36.80N–.03	141.89E–.03	44–4	5.3s,5.1b		
GCMT	III	14 06 27 27.3–.60	36.50N	142.06E	36–1	5.2W,5.1b		
MOS	III	14 06 27 27.5–.93	37.09N	141.96E	37	5.4b,5.1b		
NEIC	III	14 06 27 27.3–.26	36.63N	141.84E	35	5.1b,5.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ18.00000°,λ90.00000°. NP2:ϕ_s32.00000°,δ72.00000°,λ90.00000°. $M_0$6.71000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.8km s-min=11.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=142.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s4,c5; s74,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.44±.82 $M_{\theta\theta}$-1.06±.46; $M_{\phi\phi}$-5.38±.45; $M_{r\theta}$2.23±.30; $M_{\theta\phi}$-2.30±.18; $M_{\phi r}$1.46±.24; Best double couple: NP1:ϕ_s35.00000°,δ56.00000°,λ103.00000°. NP2:ϕ_s192.00000°,δ36.00000°,λ71.00000°. Principal axes: T 7.1070,Plg75.0000°,Azm344.0000°; N -0.3470,Plg11.0000°,Azm207.0000° ; P -6.7600,Plg10.0000°,Azm116.0000° $M_0$6.93400×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.5km az=112.4.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=145.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 06 43 53.7–.63**	**39.12N–.03**	**142.47E–.03**	**28–4**	**5.2s,5.2b**	**931**	**1-155**
NIED	III	14 06 43 00	39.20N	142.50E	29	5.1W,5.2b		**¶16311647**
JMA	III	14 06 43 52.7–.10	39.18N	142.47E	19–2	5.2,5.2b		
BJI	III	14 06 43 52.6	39.05N	142.48E	37	5.5b,5.3s		
ISCJB	III	14 06 43 53.9–.39	39.08N–.02	142.40E–.02	39–3	5.1s,5.1b		
MOS	III	14 06 43 54.3–.87	39.17N	142.30E	39	5.3b,5.1b		
GCMT	III	14 06 43 55.8–.30	39.28N	142.45E	30–0	5.2W,5.1b		
IDC	III	14 06 43 55.2–2.3	39.09N	142.43E	38–19	4.9s,4.9		
NEIC	III	14 06 43 55.8–.44	39.07N	142.31E	41–4	5.2b,4.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ37.00000°,λ-121.00000°. NP2:ϕ_s195.00000°,δ59.00000°,λ-69.00000°. $M_0$5.20000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=147.8.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=102.8.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c51; s83,c123; Duration: 1^{s}0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.04 $M_{\theta\theta}$0.03±.02; $M_{\phi\phi}$0.68±.03; $M_{r\theta}$0.21±.04; $M_{\theta\phi}$-0.07±.02; $M_{\phi r}$0.28±.03; Best double couple: NP1:ϕ_s190.00000°,δ57.00000°,λ-72.00000°. NP2:ϕ_s340.00000°,δ37.00000°,λ-115.00000°. Principal axes: T 0.7390,Plg11.0000°,Azm268.0000°; N 0.0870,Plg15.0000°,Azm0.0000° ; P -0.8260,Plg72.0000°,Azm143.0000° $M_0$0.78200×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=9.6km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=144.0. Recorded [3 JMA] in Aomori and Iwate.

(229) Off east coast of Honshu

ISC	**III**	**14 06 46 56.8–.72**	**37.90N–.04**	**142.93E–.04**	**25–4**	**5.3b,5.2s**	**1043**	**2-159**
NIED	III	14 06 46 00	37.90N	143.00E	11	5.1W,5.2s		**¶16314284**
ISCJB	III	14 06 46 53.9–1.0	37.90N–.02	142.98E–.02	14–6	5.2b,5.2s		
BJI	III	14 06 46 55.3	37.88N	142.83E	27	5.6b,5.4s		
JMA	III	14 06 46 55.5–.40	37.93N	143.02E	33	5.4,5.4s		
MOS	III	14 06 46 57.9–.81	38.16N	142.88E	33	5.5b,5.4s		
IDC	III	14 06 46 57.5–4.2	37.89N	142.98E	29–29	5.0,5.0		
NEIC	III	14 06 46 58.7–.40	37.91N	142.90E	35–3	5.3b,5.0		
GCMT	III	14 06 46 58.7–.40	38.05N	142.84E	17–1	5.1W,5.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_s193.00000°,δ47.00000°,λ-101.00000°. $M_0$4.32000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=165.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=103.3.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=106.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.1km az=149.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s78,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.92±.42 $M_{\theta\theta}$0.66±.24; $M_{\phi\phi}$4.27±.28; $M_{r\theta}$-0.48±.72; $M_{\theta\phi}$1.63±.12; $M_{\phi r}$-0.22±.56; Best double couple: NP1:ϕ_s25.00000°,δ47.00000°,λ-84.00000°. NP2:ϕ_s197.00000°,δ43.00000°,λ-96.00000°. Principal axes: T 4.9110,Plg2.0000°,Azm111.0000°; N 0.0560,Plg4.0000°,Azm201.0000° ; P -4.9620,Plg85.0000°,Azm354.0000° $M_0$4.93700×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**14 06 52 22.4–.58**	**36.90N–.03**	**141.24E–.04**	**44–5**	**5.2b,5.1s**	**1004**	**0-157**
NIED	III	14 06 52 00	37.00N	141.10E	53	5.1W,5.1s		**¶600545003**
BJI	III	14 06 52 17.5	36.78N	141.42E	34	5.6b,5.3s		
MOS	III	14 06 52 20.4–.97	37.01N	141.04E	34	5.3b,5.3s		
JMA	III	14 06 52 22.8–.10	36.96N	141.12E	52–1	5.2,5.3s		
ISCJB	III	14 06 52 23.2–.34	36.95N–.02	141.02E–.02	58–2	5.1b,5.0s		
IDC	III	14 06 52 24.0–1.6	36.97N	141.02E	56–15	4.9,4.7		
GCMT	III	14 06 52 25.1–.40	36.93N	141.11E	50–1	5.2W,4.7		
NEIC	III	14 06 52 25.1–.46	36.98N	140.97E	62–4	5.2b,4.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ44.00000°,λ56.00000°. NP2:ϕ_s178.00000°,δ55.00000°,λ118.00000°. $M_0$5.26000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=91.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=141.8.
IDC Error ellipse: s-maj=11.1km s-min=7.7km az=89.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c30; s64,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.04±.48 $M_{\theta\theta}$-0.67±.29; $M_{\phi\phi}$-5.36±.27; $M_{r\theta}$-2.23±.19; $M_{\theta\phi}$3.17±.17; $M_{\phi r}$-1.14±.19; Best double couple: NP1:ϕ_s174.00000°,δ49.00000°,λ120.00000°. NP2:ϕ_s313.00000°,δ49.00000°,λ60.00000°. Principal axes: T 7.0620,Plg68.0000°,Azm153.0000°; N -0.0970,Plg22.0000°,Azm333.0000° ; P -6.9590,Plg0.0000°,Azm243.0000° $M_0$7.01000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=136.0. Recorded [4 JMA] in Fukushima.

(229) Off east coast of Honshu

ISC	**III**	**14 07 00 13.6–.51**	**39.32N–.04**	**143.42E–.04**	**19–1**	**5.1s,4.9b**	**423**	**2-154**
NIED	III	14 07 00 00	39.20N	143.70E	20	4.7W,4.9b		**¶16311650**
JMA	III	14 07 00 10.9–.20	39.23N	143.71E	37	5.1,4.9b		
IDC	III	14 07 00 10.0–.49	39.19N	143.50E	0	4.8,4.7		
ISCJB	III	14 07 00 11.5–.94	39.38N–.02	143.40E–.03	11–5	5.0s,4.8b		
BJI	III	14 07 00 12.7	39.31N	143.09E	13	5.6b,5.2s		
MOS	III	14 07 00 13.0–.99	39.42N	143.39E	22	5.1b,5.2s		
NEIC	III	14 07 00 14.9–1.3	39.23N	143.39E	28–9	5.0b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ80.00000°,λ174.00000°. NP2:ϕ_s336.00000°,δ84.00000°,λ10.00000°. $M_0$1.42000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=12.1km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=143.9.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=101.9.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.1km az=147.0.

(229) Off east coast of Honshu

ISC	**III**	**14 17 59 41.2–.39**	**37.19N–.03**	**142.41E–.03**	**24–2**	**5.5s,5.5b**	**1396**	**1-164**
NIED	III	14 17 59 00	37.20N	142.40E	11	5.6W,5.5b		**¶17195224**
IDC	III	14 17 59 36.9–.37	37.14N	142.48E	0	5.3s,5.3		
BJI	III	14 17 59 38.1	37.13N	142.25E	18	5.9s,5.7		
JMA	III	14 17 59 39.6–.20	37.16N	142.44E	22	5.8,5.7		
ISCJB	III	14 17 59 39.5–.63	37.16N–.02	142.38E–.02	21–4	5.5s,5.4b		
NEIC	III	14 17 59 41.1–.53	37.21N	142.25E	20–3	5.6W,5.4s		
GCMT	III	14 17 59 41.1–.10	37.23N	142.42E	16–0	5.7W,5.4s		
MOS	III	14 17 59 43.2–.85	37.56N	142.27E	34	5.8b,5.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s40.00000°,δ68.00000°,λ92.00000°. $M_0$2.66000×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=9.4km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=166.6.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=148.0. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}1.77 $M_{\theta\theta}$-0.95 $M_{\phi\phi}$-0.81 $M_{r\theta}$1.79 $M_{\theta\phi}$-1.16 $M_{\phi r}$1.81 Best double couple: NP1:ϕ_s229.00000°,δ18.00000°,λ94.00000°. NP2:ϕ_s45.00000°,δ72.00000°,λ89.00000°. Principal axes: T 3.0400,Plg63.0000°,Azm313.0000° ; N 0.2700,Plg1.0000°,Azm45.0000°; P -3.3200,Plg27.0000°,Azm136.0000° $M_0$3.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s103,c190; s126,c274;Duration: 1^{s}7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.19±.04 $M_{\theta\theta}$-0.65±.02; $M_{\phi\phi}$-1.54±.03; $M_{r\theta}$2.38±.10; $M_{\theta\phi}$-1.15±.02; $M_{\phi r}$2.31±.10; Best double couple: NP1:ϕ_s44.00000°,δ73.00000°,λ96.00000°. NP2:ϕ_s204.00000°,δ18.00000°,λ71.00000°. Principal axes: T 3.9790,Plg61.0000°,Azm323.0000°; N 0.0750,Plg6.0000°,Azm222.0000° ; P -4.0490,Plg28.0000°,Azm129.0000° $M_0$4.01400×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=103.2.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 18 41 01.4–.43**	**36.59N–.03**	**141.84E–.03**	**28–2**	**5.6b,5.3s**	**1325**	**1-155**
IDC	III	14 18 40 57.3–.34	36.59N	141.79E	0	5.3,5.3		**¶602447863**
BJI	III	14 18 40 58.1	36.68N	141.71E	20	5.4b,5.4s		
ISCJB	III	14 18 40 59.2–.61	36.53N–.02	141.85E–.02	22–4	5.5b,5.2s		
JMA	III	14 18 41 00.9–.20	36.56N	141.85E	44–5	5.7,5.2s		
NIED	III	14 18 41 00	36.60N	141.70E	26	5.4W,5.2s		
GCMT	III	14 18 41 01.5–.10	36.61N	141.78E	21–0	5.4W,5.2s		
NEIC	III	14 18 41 01.5–1.1	36.58N	141.75E	26–8	5.6b,5.2s		
MOS	III	14 18 41 02.5–1.0	36.78N	141.79E	38	5.7b,5.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=8.9km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=157.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ33.00000°,λ-31.00000°. NP2:ϕ_s228.00000°,δ73.00000°,λ-120.00000°. $M_0$1.31000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s92,c169; s125,c239;Duration: 1^{s}3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.47±.02 $M_{\theta\theta}$1.03±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$0.66±.04; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$1.37±.06; Best double couple: NP1:ϕ_s216.00000°,δ82.00000°,λ-120.00000°. NP2:ϕ_s112.00000°,δ31.00000°,λ-16.00000°. Principal axes: T 1.6690,Plg30.0000°,Azm330.0000°; N 0.2340,Plg30.0000°,Azm221.0000° ; P -1.8990,Plg45.0000°,Azm96.0000° $M_0$1.78400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=130.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.0km s-min=3.8km az=107.8.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 19 28 28.8–.37**	**38.63N–.04**	**141.98E–.04**	**45–2**	**5.2b,4.5s**	**765**	**1-155**
NIED	III	14 19 28 00	38.70N	141.80E	53	5.0W,4.5s		**¶602659259**
BJI	III	14 19 28 21.1	38.43N	142.32E	25	5.3b,5.1b		
ISCJB	III	14 19 28 26.9–.14	38.67N–.02	141.77E–.03	35	5.2b,4.6s		
GCMT	III	14 19 28 28.7–.30	38.68N	142.15E	63–1	5.1W,4.6s		
MOS	III	14 19 28 28.0–.72	38.88N	141.81E	37	5.5b,4.6s		
NEIC	III	14 19 28 28.7–.25	38.64N	141.72E	39–2	5.1b,4.6s		
JMA	III	14 19 28 29.7–.20	38.65N	141.88E	51–2	5.0,4.6s		
IDC	III	14 19 28 31.5–1.9	38.66N	141.83E	66–16	5.0,4.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ19.00000°,λ70.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ97.00000°. $M_0$3.49000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=139.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c79; s91,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.96±.20 $M_{\theta\theta}$-0.25±.15; $M_{\phi\phi}$-3.71±.15; $M_{r\theta}$2.10±.11; $M_{\theta\phi}$-1.69±.13; $M_{\phi r}$2.25±.12; Best double couple: NP1:ϕ_s35.00000°,δ63.00000°,λ102.00000°. NP2:ϕ_s189.00000°,δ29.00000°,λ67.00000°. Principal axes: T 5.0900,Plg69.0000°,Azm330.0000°; N 0.2220,Plg11.0000°,Azm209.0000° ; P -5.3110,Plg18.0000°,Azm116.0000° $M_0$5.20100×10^{16}
MOS Error ellipse: s-maj=6.1km s-min=3.6km az=105.8.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=145.0. Felt at Sagamihara and Tokyo. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=112.0.

(229) Off east coast of Honshu

ISC	**III**	**15 08 01 44.1–.39**	**40.42N–.03**	**143.41E–.03**	**19–1**	**5.3s,5.2b**	**725**	**1-154**
NIED	III	15 08 01 00	40.40N	143.50E	14	5.3W,5.2b		**¶16322647**
IDC	III	15 08 01 41.1–.44	40.36N	143.45E	0	5.0,5.0s		
JMA	III	15 08 01 42.3–.20	40.39N	143.46E	13	5.5,5.0s		
MOS	III	15 08 01 43.1–.93	40.56N	143.26E	14	5.5b,5.4s		
ISCJB	III	15 08 01 43.5–.77	40.38N–.02	143.29E–.02	20–5	5.2s,5.1b		
BJI	III	15 08 01 43.4	40.41N	143.27E	24	5.5b,5.4s		
GCMT	III	15 08 01 43.8–.10	40.35N	143.60E	21–0	5.4W,5.4s		
NEIC	III	15 08 01 43.8–.13	40.40N	143.24E	12	5.4W,5.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ24.00000°,λ91.00000°. NP2:ϕ_s24.00000°,δ66.00000°,λ90.00000°. $M_0$1.12000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=152.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c140; s117,c222; Duration: 1^{s}2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.03 $M_{\theta\theta}$-0.07±.01; $M_{\phi\phi}$-0.71±.02; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$1.02±.04; Best double couple: NP1:ϕ_s27.00000°,δ73.00000°

,λ94.00000°. NP2:ϕ_s193.00000°,δ18.00000°,λ76.00000°. Principal axes:
T 1.4060,Plg62.0000°,Azm304.0000°; N 0.0170,Plg4.0000°,Azm206.0000°
; P -1.4230,Plg28.0000°,Azm114.0000° $M_0$1.41400×10^{17}

NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=148.0. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-0.94 $M_{r\theta}$0.51 $M_{\theta\phi}$-0.30 $M_{\phi r}$1.07 Best double couple: NP1:ϕ_s192.00000°,δ21.00000°,λ80.00000°. NP2:ϕ_s24.00000°
,δ69.00000°,λ94.00000°. Principal axes: T 1.6000,Plg65.0000°,Azm300.0000°
; N -0.0300,Plg4.0000°,Azm202.0000°; P -1.5700,Plg24.0000°,Azm111.0000°
$M_0$1.60000×10^{17}

(229) Off east coast of Honshu

ISC								
ISC	**III**	**15 08 48 22.7–.63**	**37.61N–.04**	**143.59E–.04**	**26–4**	**5.2b,5.0s**	**986**	**2-160**
ISCJB	III	15 08 48 18.1–1.0	37.54N–.03	143.59E–.02	6–6	5.2b,4.9s		**¶17196093**
IDC	III	15 08 48 18.5–.37	37.51N	143.65E	0	4.9,4.9		
JMA	III	15 08 48 22.1–.40	37.47N	143.39E	34	5.2,4.9		
MOS	III	15 08 48 23.1–.89	37.72N	143.49E	33	5.5b,4.8s		
GCMT	III	15 08 48 24.1–.20	37.61N	143.54E	12	5.1W,4.8s		
NEIC	III	15 08 48 24.1–.32	37.52N	143.55E	34–2	5.3b,4.8s		
BJI	III	15 08 48 25.2	37.89N	142.94E	25	5.4b,5.1s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.6km az=161.6.
IDC Error ellipse: s-maj=10.9km s-min=9.2km az=103.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=4.2km az=104.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c55; s109,c188; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.77±.08 $M_{\theta\theta}$0.58±.08; $M_{\phi\phi}$4.19±.07; $M_{r\theta}$0.36±.28; $M_{\theta\phi}$1.40±.07; $M_{\phi r}$0.58±.27; Best double couple: NP1:ϕ_s201.00000°,δ49.00000°
,λ-88.00000°. NP2:ϕ_s17.00000°,δ41.00000°,λ-93.00000°. Principal axes:
T 4.7170,Plg4.0000°,Azm289.0000°; N 0.1080,Plg2.0000°,Azm19.0000°
; P -4.8220,Plg86.0000°,Azm133.0000° $M_0$4.77000×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.0km az=146.0.

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ISC								
ISC	**III**	**15 09 49 54.2–.36**	**37.35N–.03**	**142.38E–.03**	**19–1**	**6.0b,5.6s**	**2142**	**1-161**
NIED	III	15 09 49 00	37.40N	142.30E	5	5.9W,5.6s		**¶16315885**
IDC	III	15 09 49 50.9–.31	37.32N	142.42E	0	5.5,5.5		
BJI	III	15 09 49 50.3	37.40N	142.45E	15	6.1s,6.0b		
JMA	III	15 09 49 51.5–.20	37.39N	142.33E	7–2	6.3,6.0b		
ISCJB	III	15 09 49 51.3–.60	37.35N–.02	142.34E–.01	9–3	5.9b,5.6s		
GCMT	III	15 09 49 52.6–.10	37.44N	142.29E	12	5.8W,5.6s		
MOS	III	15 09 49 52.2–.89	37.41N	142.34E	24	6.2b,5.6s		
NEIC	III	15 09 49 52.6–.07	37.37N	142.30E	8	6.0,6.0b		
NEIC	III	15 09 49 54.0–.00	37.15N	142.61E	15	6.0,6.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ22.00000°,λ-80.00000°.
NP2:ϕ_s201.00000°,δ68.00000°,λ-94.00000°. $M_0$7.32000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=8.6km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=163.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c230; s145,c434;Duration: 2^{s}0 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.90±.04 $M_{\theta\theta}$0.98±.04; $M_{\phi\phi}$4.92±.04; $M_{r\theta}$1.95±.12; $M_{\theta\phi}$1.93±.04; $M_{\phi r}$2.84±.12; Best double couple: NP1:ϕ_s208.00000°
,δ60.00000°,λ-84.00000°. NP2:ϕ_s17.00000°,δ30.00000°,λ-100.00000°. Principal axes:
T 6.6200,Plg15.0000°,Azm294.0000°; N 0.2600,Plg5.0000°,Azm25.0000°
; P -6.8760,Plg74.0000°,Azm133.0000° $M_0$6.74800×10^{17}
MOS Error ellipse: s-maj=5.2km s-min=3.4km az=106.2.
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=145.0. Recorded [3 JMA] in Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s30.00000°,δ20.00000°,λ-90.00000°. NP2:
ϕ_s210.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm300.0000°
; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm120.0000°
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.13 $M_{\theta\theta}$1.08 $M_{\phi\phi}$3.06 $M_{r\theta}$3.24 $M_{\theta\phi}$1.29 $M_{\phi r}$2.58 Best double couple: NP1:ϕ_s223.00000°
,δ69.00000°,λ-79.00000°. NP2:ϕ_s16.00000°,δ24.00000°,λ-115.00000°. Principal axes:
T 5.2900,Plg22.0000°,Azm305.0000°; N 0.7600,Plg10.0000°,Azm39.0000°
; P -6.0500,Plg64.0000°,Azm151.0000° $M_0$5.70000×10^{17}

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ISC								
ISC	**III**	**15 09 52 00.3–.54**	**37.20N–.08**	**142.45E–.09**	**9**	**5.1b**	**39**	**3-154**
ISCJB	III	15 09 51 58.4–.40	37.17N–.05	142.44E–.08	9	5.9s,5.0b		**¶16478194**
IDC	III	15 09 51 58.9–.54	37.24N	142.36E	0	5.8,5.8s		
NEIC	III	15 09 52 05.6–1.4	37.25N	142.35E	48–12	4.8b,5.8s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=34.1.
IDC Error ellipse: s-maj=14.7km s-min=13.7km az=121.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.5km az=126.0.

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ISC								
ISC	**III**	**15 11 46 17.4–.46**	**40.47N–.03**	**143.27E–.04**	**19–1**	**5.4s,5.2b**	**744**	**1-154**
NIED	III	15 11 46 00	40.40N	143.60E	14	5.5W,5.2b		**¶16336079**
IDC	III	15 11 46 13.4–.42	40.36N	143.45E	0	4.9,4.9s		
BJI	III	15 11 46 14.0	40.34N	143.25E	14	5.6b,5.5s		
JMA	III	15 11 46 14.2–.30	40.35N	143.56E	17–5	5.5,5.5s		
MOS	III	15 11 46 17.7–1.1	40.60N	143.19E	25	5.4b,5.5s		
ISCJB	III	15 11 46 17.6–.85	40.44N–.02	143.20E–.02	28–5	5.3s,5.1b		
GCMT	III	15 11 46 21.0–.10	40.39N	143.55E	22–0	5.5W,5.1b		
NEIC	III	15 11 46 21.0–.90	40.42N	142.96E	35–8	5.2b,5.1b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ22.00000°,λ26.00000°.
NP2:ϕ_s40.00000°,δ81.00000°,λ110.00000°. $M_0$2.01000×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=10.2km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=111.4.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=152.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c151; s119,c231; Duration: 1^{s}3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.15±.03 $M_{\theta\theta}$-0.08±.02; $M_{\phi\phi}$-1.07±.02; $M_{r\theta}$0.66±.03; $M_{\theta\phi}$-0.30±.01; $M_{\phi r}$1.33±.05; Best double couple: NP1:ϕ_s24.00000°,δ71.00000°
,λ95.00000°. NP2:ϕ_s188.00000°,δ20.00000°,λ75.00000°. Principal axes:
T 1.8890,Plg63.0000°,Azm303.0000°; N -0.0220,Plg5.0000°,Azm202.0000°
; P -1.8710,Plg26.0000°,Azm110.0000° $M_0$1.88000×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=150.0.

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ISC								
ISC	**III**	**15 13 27 56.7–.54**	**37.59N–.03**	**142.34E–.03**	**31–3**	**5.8s,5.7b**	**1485**	**1-160**
NIED	III	15 13 27 00	37.60N	142.30E	41	6.0W,5.7b		**¶602443560**
IDC	III	15 13 27 52.3–.34	37.58N	142.31E	0	5.7,5.7s		
JMA	III	15 13 27 53.6–.30	37.60N	142.30E	10–4	6.2,5.7s		
ISCJB	III	15 13 27 54.6–.07	37.59N–.02	142.32E–.01	23	5.8s,5.6b		
BJI	III	15 13 27 54.3	37.47N	142.17E	29	6.1s,6.0		
MOS	III	15 13 27 55.9–1.1	37.63N	142.28E	33	5.8b,5.8s		
NEIC	III	15 13 27 56.0–.00	37.37N	142.23E	25	5.8b,5.8s		
NEIC	III	15 13 27 56.6–.11	37.58N	142.24E	28	6.0W,5.9W		
GCMT	III	15 13 27 56.6–.10	37.67N	142.13E	28–0	6.1W,5.9W		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ25.00000°,λ168.00000°.
NP2:ϕ_s313.00000°,δ85.00000°,λ66.00000°. $M_0$1.12000×10^{18}
IDC Error ellipse: s-maj=11.5km s-min=8.4km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.5km az=156.1.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=101.1.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{18}Nm; M_{rr}0.17 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-0.26 $M_{r\theta}$-0.90 $M_{\theta\phi}$0.01 $M_{\phi r}$1.01 Best double couple: NP1:ϕ_s319.00000°
,δ87.00000°,λ83.00000°. NP2:ϕ_s205.00000°,δ8.00000°,λ156.00000°. Principal axes:
T 1.4000,Plg47.0000°,Azm221.0000°; N -0.0500,Plg7.0000°,Azm319.0000°
; P -1.3400,Plg41.0000°,Azm55.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.4km az=141.0. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 1 second later. Depth based on larger event. Energy computed from CMT mechanism. Moment Tensor Solution. s86 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57 $M_{\theta\theta}$0.82 $M_{\phi\phi}$-1.39 $M_{r\theta}$-6.99 $M_{\theta\phi}$2.62 $M_{\phi r}$5.88 Best double couple: NP1:ϕ_s194.00000°,δ11.00000°
,λ156.00000°. NP2:ϕ_s307.00000°,δ85.00000°,λ80.00000°. Principal axes:
T 8.4000,Plg49.0000°,Azm206.0000°; N 2.1000,Plg10.0000°,Azm308.0000°
; P -10.4000,Plg3.0000°,Azm4.0000° $M_0$9.60000×10^{17} Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ5.00000°,λ90.00000°. NP2:
ϕ_s310.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm220.0000°
; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm40.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c255; s134,c297;Duration: 2^{s}7 Moment tensor: Scale 10^{18}Nm; M_{rr}0.20±.01 $M_{\theta\theta}$0.35±.01; $M_{\phi\phi}$-0.54±.01; $M_{r\theta}$-1.26±.03; $M_{\theta\phi}$0.19±.01; $M_{\phi r}$0.96±.03; Best double couple: NP1:
ϕ_s309.00000°,δ87.00000°,λ73.00000°. NP2:ϕ_s207.00000°,δ17.00000°,λ168.00000°.
Principal axes: T 1.6740,Plg46.0000°,Azm202.0000°; N -0.0150,Plg17.0000°,Azm310.0000°
; P -1.6590,Plg39.0000°,Azm54.0000° $M_0$1.66700×10^{18}

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ISC								
ISC	**III**	**15 13 31 47.5–.42**	**35.31N–.02**	**138.72E–.03**	**15–2**	**6.1b,6.0s**	**1658**	**0-164**
NIED	III	15 13 31 00	35.30N	138.70E	8	5.9W,6.0s		**¶16318259**
ISCJB	III	15 13 31 45.3–.52	35.25N–.02	138.65E–.02	10–3	6.0b,6.0s		
BJI	III	15 13 31 45.6	35.35N	138.70E	10	6.4s,6.1		
IDC	III	15 13 31 45.2–.28	35.23N	138.50E	0	5.8,5.8L		
NEIC	III	15 13 31 46.0–.00	35.50N	139.00E	35	5.8,5.8L		
NEIC	III	15 13 31 46.3–.09	35.27N	138.58E	9	6.2b,6.0		
JMA	III	15 13 31 46.3	35.31N	138.71E	14–1	6.4,6.0		
GCMT	III	15 13 31 46.3–.10	35.27N	138.58E	19–0	6.0W,6.0		
MOS	III	15 13 31 48.4–1.1	35.30N	138.61E	31	6.3b,6.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ69.00000°,λ22.00000°.
NP2:ϕ_s293.00000°,δ70.00000°,λ157.00000°. $M_0$8.38000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=169.7.
IDC Error ellipse: s-maj=9.9km s-min=7.8km az=80.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ78.00000°
,λ52.00000°. NP2:ϕ_s296.00000°,δ39.00000°,λ161.00000°. Principal axes:
T 0.9800,Plg43.0000°,Azm273.0000°; N 0.1600,Plg36.0000°,Azm49.0000°
; P -1.1400,Plg23.0000°,Azm158.0000°
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=136.0. Felt [V] at Sagamihara and Yokohama; [IV] at Atsugi, Ayase, Tokyo, Yamato, Yokosuka, Zama and Zushi; [III] at Nagoya and Osaka. Felt in many parts of central Honshu. Recorded [6U JMA] in Shizuoka. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s38 Moment tensor: Scale 10^{17}Nm; M_{rr}3.93 $M_{\theta\theta}$-7.43 $M_{\phi\phi}$3.50 $M_{r\theta}$2.76 $M_{\theta\phi}$0.01 $M_{\phi r}$2.88 Best double couple: NP1:ϕ_s305.00000°
,δ46.00000°,λ149.00000°. NP2:ϕ_s58.00000°,δ68.00000°,λ49.00000°. Principal axes:
T 6.9000,Plg49.0000°,Azm283.0000°; N 1.2000,Plg38.0000°,Azm76.0000°
; P -8.1000,Plg14.0000°,Azm177.0000° $M_0$7.60000×10^{17} Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s210.00000°,δ10.00000°,λ90.00000°. NP2:
ϕ_s30.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm300.0000°
; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm120.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s291.00000°
,δ64.00000°,λ149.00000°. NP2:ϕ_s36.00000°,δ63.00000°,λ29.00000°. Principal axes:
T Plg39.0000°,Azm253.0000°; N Plg51.0000°,Azm75.0000°; P Plg1.0000°,Azm344.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s95,c186; s137,c386;Duration: 2^{s}3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.38±.01 $M_{\theta\theta}$-1.03±.01; $M_{\phi\phi}$0.65±.01; $M_{r\theta}$0.04±.03; $M_{\theta\phi}$-0.66±.01; $M_{\phi r}$0.20±.03; Best double couple: NP1:ϕ_s28.00000°
,δ80.00000°,λ16.00000°. NP2:ϕ_s295.00000°,δ75.00000°,λ170.00000°. Principal axes:
T 0.9370,Plg18.0000°,Azm252.0000°; N 0.3310,Plg72.0000°,Azm59.0000°
; P -1.2650,Plg4.0000°,Azm161.0000° $M_0$1.10100×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.5km az=104.3.

(229) Off east coast of Honshu

ISC								
ISC	**III**	**15 13 37 56.4–.59**	**37.61N–.04**	**142.06E–.04**	**43–4**	**5.1b**	**701**	**1-155**
BJI	III	15 13 37 51.4	37.56N	142.31E	38	5.7b,5.5s		**¶602661878**
JMA	III	15 13 37 54.9–.20	37.62N	142.00E	30–5	5.3,5.5s		
ISCJB	III	15 13 37 55.3–.50	37.64N–.03	141.95E–.03	43–4	5.5s,5.0b		
MOS	III	15 13 37 55.2–.84	37.83N	141.95E	36	5.3b,5.0b		
IDC	III	15 13 37 56.7–.61	37.67N	142.02E	43–4	4.9,4.8		
NEIC	III	15 13 37 57.1–.43	37.67N	141.94E	45–4	5.1b,4.8		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=162.1.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=96.6.
IDC Error ellipse: s-maj=10.6km s-min=9.2km az=147.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=145.0. Recorded [3 JMA] in Fukushima and Miyagi.

(229) Off east coast of Honshu

ISC								
ISC	**III**	**15 15 23 54.6–.41**	**40.35N–.03**	**143.38E–.03**	**23–2**	**5.9s,5.7b**	**1664**	**1-154**
NIED	III	15 15 23 00	40.40N	143.50E	20	6.1W,5.7b		**¶17196173**
IDC	III	15 15 23 50.8–.43	40.35N	143.42E	0	6.0,6.0s		
ISCJB	III	15 15 23 51.2–.64	40.39N–.02	143.29E–.02	6–4	6.0s,5.6b		
JMA	III	15 15 23 52.3–.30	40.37N	143.47E	18–4	6.3,5.6b		
NEIC	III	15 15 23 53.9–.10	40.34N	143.29E	18	6.1W,6.1W		
BJI	III	15 15 23 53.4	40.50N	143.15E	33	6.4b,6.3s		
NEIC	III	15 15 23 53.0–.00	40.40N	143.59E	15	6.4b,6.3s		
GCMT	III	15 15 23 54.1–.10	40.36N	143.50E	23–0	6.0W,6.3s		
MOS	III	15 15 23 54.3–.92	40.49N	143.33E	26	6.0s,5.9b		
NEIC	III	15 15 24 10.8–.00	40.11N	143.69E	30	6.0s,5.9b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ23.00000°,λ45.00000°.
NP2:ϕ_s33.00000°,δ74.00000°,λ107.00000°. $M_0$1.35000×10^{18}
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=156.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=146.0. Felt [II] at Misawa. Recorded [3 JMA] in Aomori and Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution.
Best double couple: NP1:ϕ_s158.00000°,δ20.00000°,λ51.00000°. NP2:ϕ_s19.00000°
,δ75.00000°,λ103.00000°. Principal axes: T 1.2800,Plg58.0000°,Azm307.0000°
; N -0.0200,Plg12.0000°,Azm196.0000°; P -1.2600,Plg29.0000°,Azm99.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ7.00000°
,λ90.00000°. NP2:ϕ_s20.00000°,δ83.00000°,λ90.00000°. Principal axes: T Plg52.0000°
,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg38.0000°,Azm110.0000°
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}0.50 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-0.50 $M_{r\theta}$0.90 $M_{\theta\phi}$-0.10 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s26.00000°
,δ82.00000°,λ94.00000°. NP2:ϕ_s175.00000°,δ8.00000°,λ59.00000°. Principal axes:
T 1.9000,Plg52.0000°,Azm301.0000°; N 0.0000,Plg4.0000°,Azm206.0000°
; P -1.9000,Plg37.0000°,Azm112.0000° $M_0$2.00000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c252; s137,c421;Duration: 2^{s}5 Moment tensor: Scale 10^{18}Nm; M_{rr}0.77±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.44±.01; $M_{\theta\phi}$-0.16±.01; $M_{\phi r}$0.95±.02; Best double couple: NP1:ϕ_s22.00000°
,δ72.00000°,λ96.00000°. NP2:ϕ_s183.00000°,δ19.00000°,λ72.00000°. Principal axes:
T 1.3110,Plg62.0000°,Azm302.0000°; N -0.0230,Plg6.0000°,Azm200.0000°
; P -1.2870,Plg27.0000°,Azm107.0000° $M_0$1.29900×10^{18}
MOS Error ellipse: s-maj=5.5km s-min=3.4km az=102.4.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{18}Nm; M_{rr}0.69 $M_{\theta\theta}$0.12 $M_{\phi\phi}$-0.82 $M_{r\theta}$0.32 $M_{\theta\phi}$-0.06 $M_{\phi r}$1.57 Best double couple: NP1:ϕ_s174.00000°
,δ13.00000°,λ74.00000°. NP2:ϕ_s11.00000°,δ77.00000°,λ94.00000°. Principal axes:
T 1.7200,Plg57.0000°,Azm286.0000°; N 0.1100,Plg4.0000°,Azm190.0000°
; P -1.8300,Plg32.0000°,Azm98.0000° $M_0$1.80000×10^{18}

(228) Near east coast of eastern Honshu

ISC								
ISC	**III**	**15 19 01 31.6–.50**	**38.16N–.03**	**142.15E–.03**	**18–2**	**5.3b,5.2s**	**1237**	**1-161**
NIED	III	15 19 01 00	38.10N	142.20E	5	5.4W,5.2s		**¶16320497**
BJI	III	15 19 01 24.6	38.10N	142.76E	19	5.5s,5.3b		
JMA	III	15 19 01 29.1–.30	38.10N	142.16E	18–3	5.6,5.3b		
ISCJB	III	15 19 01 29.8–.81	38.13N–.02	142.03E–.02	13–5	5.2b,5.1s		
NEIC	III	15 19 01 30.5–.09	38.13N	141.93E	10	5.3b,5.1s		
GCMT	III	15 19 01 30.5–.10	38.21N	141.97E	12	5.4W,5.1s		
MOS	III	15 19 01 31.7–1.1	38.21N	142.09E	33	5.4b,5.0s		
IDC	III	15 19 01 31.5–1.9	38.14N	141.97E	16–12	5.1,5.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ43.00000°,λ-95.00000°.
NP2:ϕ_s155.00000°,δ47.00000°,λ-86.00000°. $M_0$1.34000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=161.2.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=139.0. Recorded [3 JMA] in Iwate, Miyagi and Yamagata.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c134; s129,c228; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.32±.01 $M_{\theta\theta}$0.29±.01; $M_{\phi\phi}$1.04±.01; $M_{r\theta}$0.22±.05; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$0.23±.04; Best double couple: NP1:ϕ_s165.00000°,δ48.00000°,λ-74.00000°. NP2:ϕ_s321.00000°,δ44.00000°,λ-108.00000°. Principal axes: T 1.3130,Plg2.0000°,Azm243.0000°; N 0.0840,Plg12.0000°,Azm334.0000° ; P -1.3890,Plg78.0000°,Azm143.0000° $M_0$1.35100×10^{17}

MOS Error ellipse: s-maj=6.9km s-min=4.6km az=96.6.

IDC Error ellipse: s-maj=11.2km s-min=9.3km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 20 29 59.6–.41**	**35.24N–.03**	**141.17E–.03**	**20–1**	**5.7b,5.5s**	**1463**	**1-162**
BJI	III	15 20 29 56.7	35.29N	141.20E	25	5.8,5.8s		**¶602661014**
ISCJB	III	15 20 29 57.8–.60	35.18N–.02	141.07E–.02	15–4	5.6b,5.5s		
MOS	III	15 20 29 58.4–.97	35.18N	141.14E	26	5.8b,5.6s		
NEIC	III	15 20 29 59.8–.60	35.21N	140.99E	19–3	5.7W,5.6W		
GCMT	III	15 20 29 59.8–.10	35.17N	141.16E	22–0	5.6W,5.6W		
NEIC	III	15 20 30 00.0–.00	35.05N	140.79E	15	5.6W,5.6W		
JMA	III	15 20 30 00.2–.10	35.28N	141.22E	24–3	5.8,5.6W		
NIED	III	15 20 30 00	35.30N	141.20E	23	5.6W,5.6W		
IDC	III	15 20 30 03.0–1.2	35.21N	141.06E	42–10	5.5,5.5s		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=150.2.

MOS Error ellipse: s-maj=8.1km s-min=5.4km az=118.4.

NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=134.0. Recorded [3 JMA] in Chiba. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-2.60 $M_{\phi\phi}$1.54 $M_{r\theta}$2.15 $M_{\theta\phi}$0.44 $M_{\phi r}$1.84 Best double couple: NP1:ϕ_s313.00000°,δ36.00000°,λ162.00000°. NP2:ϕ_s58.00000°,δ80.00000°,λ55.00000°. Principal axes: T 3.6800,Plg44.0000°,Azm293.0000°; N -0.0600,Plg34.0000°,Azm65.0000° ; P -3.6300,Plg26.0000°,Azm175.0000° $M_0$3.60000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s99,c176; s125,c263;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.87±.05 $M_{\theta\theta}$-2.86±.04; $M_{\phi\phi}$0.99±.03; $M_{r\theta}$1.79±.07; $M_{\theta\phi}$0.13±.02; $M_{\phi r}$1.16±.07; Best double couple: NP1:ϕ_s66.00000°,δ69.00000°,λ62.00000°. NP2:ϕ_s302.00000°,δ34.00000°,λ140.00000°. Principal axes: T 3.0930,Plg57.0000°,Azm299.0000°; N 0.3850,Plg26.0000°,Azm77.0000° ; P -3.4750,Plg19.0000°,Azm176.0000° $M_0$3.28400×10^{17}

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80 $M_{\theta\theta}$-2.40 $M_{\phi\phi}$1.70 $M_{r\theta}$3.10 $M_{\theta\phi}$0.50 $M_{\phi r}$3.80 Best double couple: NP1:ϕ_s46.00000°,δ87.00000°,λ66.00000°. NP2:ϕ_s310.00000°,δ23.00000°,λ172.00000°. Principal axes: T 5.8000,Plg43.0000°,Azm294.0000°; N -1.0000,Plg23.0000°,Azm48.0000° ; P -4.8000,Plg37.0000°,Azm157.0000° $M_0$5.00000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ35.00000°,λ-174.00000°. NP2:ϕ_s222.00000°,δ86.00000°,λ-55.00000°. $M_0$3.16000×10^{17}

IDC Error ellipse: s-maj=11.2km s-min=6.3km az=97.0.

(266) Northern Molucca Sea

ISC	**III**	**15 22 16 14.2–.30**	**2.44N–.03**	**126.79E–.05**	**53**	**4.7b,3.4s**	**208**	**2-156**
BJI	III	15 22 16 09.7	1.83N	126.73E	66	5.1b,4.7b		**¶16327713**
NEIC	III	15 22 16 10.9–2.1	2.38N	126.68E	27–15	4.9b,4.7b		
KLM	III	15 22 16 12.9	2.63N	127.16E	66	5.6s,4.8b		
ISCJB	III	15 22 16 12.5–.20	2.41N–.03	126.83E–.03	53	4.8b,3.5s		
DJA	III	15 22 16 14.1–.40	2N–3.0	127E–2.0	10	5.5b,5.1b		
IDC	III	15 22 16 14.9–3.0	2.33N	126.61E	60–28	4.6,4.5L		

ISC Event type se.

NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.3km az=73.0.

ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=158.5.

IDC Error ellipse: s-maj=15.3km s-min=9.4km az=77.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 03 52 04.0–.43**	**35.83N–.02**	**140.88E–.02**	**17–2**	**6.0b,5.5s**	**1901**	**0-162**
NIED	III	16 03 52 00	35.80N	141.00E	8	5.8W,5.5s		**¶16320521**
BJI	III	16 03 52 01.1	35.75N	140.95E	23	5.9s,5.8b		
IDC	III	16 03 52 01.4–.27	35.80N	140.83E	0	5.7,5.6		
NEIC	III	16 03 52 03.0–.08	35.75N	140.71E	10	6.0b,5.8		
JMA	III	16 03 52 02.7–.10	35.84N	140.91E	10–1	6.1,5.8		
ISCJB	III	16 03 52 03.2–.37	35.79N–.02	140.79E–.01	18–2	5.9b,5.6s		
GCMT	III	16 03 52 03.0–.10	35.78N	140.83E	12	5.8W,5.6s		
NEIC	III	16 03 52 05.0–.00	35.79N	141.20E	25	5.8W,5.6s		
MOS	III	16 03 52 05.2–.97	35.81N	140.71E	33	6.2b,5.6s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ39.00000°,λ-59.00000°. NP2:ϕ_s152.00000°,δ57.00000°,λ-113.00000°. $M_0$6.44000×10^{17}

IDC Error ellipse: s-maj=10.4km s-min=7.7km az=80.0.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=136.0. Felt [III] at Tokyo. Also felt at Akishima, Iruma, Oyama, Sagamihara, Saitama, Sayama, Suwa and Yokohama. Recorded [5L JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.51 $M_{\theta\theta}$-1.11 $M_{\phi\phi}$6.62 $M_{r\theta}$-0.40 $M_{\theta\phi}$2.68 $M_{\phi r}$1.06 Best double couple: NP1:ϕ_s28.00000°,δ42.00000°,λ-74.00000°. NP2:ϕ_s187.00000°,δ50.00000°,λ-104.00000°. Principal axes: T 7.5200,Plg4.0000°,Azm287.0000° ; N -1.8200,Plg10.0000°,Azm196.0000°; P -5.7000,Plg79.0000°,Azm37.0000° $M_0$6.80000×10^{17}

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s165.00000°,δ48.00000°,λ-85.00000°. NP2: ϕ_s337.00000°,δ42.00000°,λ-96.00000°. Principal axes: T Plg3.0000°,Azm251.0000° ; N Plg4.0000°,Azm341.0000°; P Plg85.0000°,Azm124.0000°

ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=169.2.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c226; s135,c430;Duration: 2s0 Moment tensor: Scale 10^{17} Nm; M_{rr}-5.92±.05 $M_{\theta\theta}$-0.87±.05; $M_{\phi\phi}$6.79±.04; $M_{r\theta}$0.10±.14; $M_{\theta\phi}$-0.41±.04; $M_{\phi r}$2.54±.13; Best double couple: NP1:ϕ_s179.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ_s354.00000° ,δ34.00000°,λ-94.00000°. Principal axes: T 7.2970,Plg11.0000°,Azm267.0000° ; N -0.8840,Plg2.0000°,Azm358.0000°; P -6.4150,Plg79.0000°,Azm100.0000° $M_0$6.85600×10^{17}

NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.98 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$3.98 $M_{r\theta}$2.47 $M_{\theta\phi}$-0.32 $M_{\phi r}$1.51 Best double couple: NP1:ϕ_s202.00000° ,δ60.00000°,λ-62.00000°. NP2:ϕ_s335.00000°,δ40.00000°,λ-129.00000°. Principal axes: T 4.2600,Plg10.0000°,Azm272.0000°; N 1.1400,Plg23.0000°,Azm7.0000° ; P -5.4000,Plg63.0000°,Azm159.0000° $M_0$4.90000×10^{17}

MOS Error ellipse: s-maj=6.3km s-min=4.0km az=108.1.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 04 14 30.4–.32**	**37.55N–.03**	**141.57E–.03**	**20–1**	**5.3b,4.9s**	**757**	**1-149**
NIED	III	16 04 14 00	37.50N	141.60E	14	5.3W,4.9s		**¶602443619**
ISCJB	III	16 04 14 28.6–.97	37.56N–.02	141.51E–.02	12–6	5.3b,5.0s		
BJI	III	16 04 14 29.5	37.50N	141.40E	23	5.7b,5.3s		
JMA	III	16 04 14 29.6–.10	37.53N	141.58E	25–2	5.6,5.3s		
GCMT	III	16 04 14 30.5–.10	37.55N	141.57E	19–0	5.4W,5.3s		
NEIC	III	16 04 14 30.5–.69	37.55N	141.43E	17–4	5.3b,5.3s		
IDC	III	16 04 14 31.5–.44	37.55N	141.50E	25–2	5.0,4.9		
MOS	III	16 04 14 33.7–1.1	38.04N	141.44E	33	5.5b,4.9s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ78.00000°,λ-1.00000°. NP2:ϕ_s348.00000°,δ89.00000°,λ-168.00000°. $M_0$9.41000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=139.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c88; s123,c225; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.03 $M_{\theta\theta}$-0.64±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$0.01±.05; $M_{\theta\phi}$1.19±.02; $M_{\phi r}$-0.21±.05; Best double couple: NP1:ϕ_s165.00000°,δ89.00000° ,λ171.00000°. NP2:ϕ_s256.00000°,δ82.00000°,λ1.00000°. Principal axes: T 1.4010,Plg7.0000°,Azm120.0000°; N -0.0510,Plg81.0000°,Azm337.0000° ; P -1.3500,Plg5.0000°,Azm211.0000° $M_0$1.37600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=136.0. Recorded [4 JMA] in Fukushima.

IDC Error ellipse: s-maj=10.3km s-min=8.6km az=96.0.

MOS Error ellipse: s-maj=6.5km s-min=4.2km az=100.3.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 06 29 02.8–.30**	**39.89N–.03**	**142.23E–.03**	**39–2**	**5.5b,5.3s**	**1260**	**1-155**
NIED	III	16 06 29 00	39.90N	142.30E	50	5.7W,5.3s		**¶16320528**
BJI	III	16 06 29 01.1	40.00N	142.10E	31	5.6b,5.5s		
JMA	III	16 06 29 02.9–.10	39.86N	142.30E	41–2	5.7,5.5s		
MOS	III	16 06 29 02.7–.78	40.11N	141.99E	36	5.8b,5.5s		
ISCJB	III	16 06 29 03.6–.31	39.89N–.02	142.09E–.02	53–2	5.5b,5.4s		
GCMT	III	16 06 29 03.2–.10	39.87N	142.33E	48–0	5.8W,5.4s		
NEIC	III	16 06 29 03.2–.09	39.89N	142.02E	36	5.8W,5.7W		
NEIC	III	16 06 29 03.0–.00	39.77N	142.49E	31	5.8W,5.7W		
IDC	III	16 06 29 05.4–1.8	39.85N	142.16E	63–16	5.3,5.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ80.00000°. NP2:ϕ_s20.00000°,δ72.00000°,λ93.00000°. $M_0$4.71000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=5.9km s-min=3.7km az=97.6.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=148.5.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c243; s126,c326;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}4.40±.06 $M_{\theta\theta}$-0.18±.05; $M_{\phi\phi}$-4.22±.05; $M_{r\theta}$1.64±.05; $M_{\theta\phi}$-1.16±.04; $M_{\phi r}$3.29±.06; Best double couple: NP1:ϕ_s22.00000° ,δ65.00000°,λ96.00000°. NP2:ϕ_s187.00000°,δ26.00000°,λ77.00000°. Principal axes: T 5.7580,Plg70.0000°,Azm305.0000°; N 0.0560,Plg6.0000°,Azm200.0000° ; P -5.8110,Plg20.0000°,Azm107.0000° $M_0$5.78400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=140.0. Recorded [3 JMA] in Aomori and Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17} Nm; M_{rr}4.41 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-4.49 $M_{r\theta}$2.48 $M_{\theta\phi}$-1.29 $M_{\phi r}$4.03 Best double couple: NP1: ϕ_s182.00000°,δ24.00000°,λ67.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ100.00000°. Principal axes: T 6.5300,Plg65.0000°,Azm314.0000°; N 0.1900,Plg9.0000°,Azm203.0000° ; P -6.7200,Plg23.0000°,Azm109.0000° $M_0$6.60000×10^{17}

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}3.01 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-2.42 $M_{r\theta}$1.76 $M_{\theta\phi}$-0.60 $M_{\phi r}$2.00 Best double couple: NP1:ϕ_s32.00000° ,δ67.00000°,λ100.00000°. NP2:ϕ_s188.00000°,δ25.00000°,λ67.00000°. Principal axes: T 4.1600,Plg66.0000°,Azm320.0000°; N -0.6000,Plg9.0000°,Azm208.0000° ; P -3.5500,Plg21.0000°,Azm114.0000° $M_0$3.90000×10^{17}

IDC Error ellipse: s-maj=10.5km s-min=9.6km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 13 39 01.1–.52**	**35.82N–.03**	**140.59E–.04**	**52–4**	**5.6b,4.5s**	**855**	**0-158**
BJI	III	16 13 38 51.5	35.70N	141.07E	29	5.5b,5.3b		**¶602442411**
NIED	III	16 13 39 00	36.00N	140.50E	56	5.2W,5.3b		
ISCJB	III	16 13 39 02.0–.37	35.81N–.02	140.36E–.03	68–2	5.4b,5.3b		
MOS	III	16 13 39 02.2–.91	35.88N	140.31E	69	5.8b,4.5s		
JMA	III	16 13 39 02.5–.10	35.92N	140.44E	53–2	5.4,4.5s		
IDC	III	16 13 39 03.6–1.1	35.82N	140.40E	70–9	5.4,5.2		
NEIC	III	16 13 39 05.3–.58	35.82N	140.31E	85–5	5.4b,5.2		
GCMT	III	16 13 39 05.8–.20	35.88N	140.54E	54–0	5.3W,5.2		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ24.00000°,λ116.00000°. NP2:ϕ_s12.00000°,δ69.00000°,λ79.00000°. $M_0$8.08000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=18.4.

MOS Error ellipse: s-maj=8.5km s-min=4.8km az=108.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ87.00000°,λ90.00000°. NP2: ϕ_s192.00000°,δ3.00000°,λ81.00000°. Principal axes: T Plg48.0000°,Azm292.0000° ; N Plg0.0000°,Azm21.0000°; P Plg42.0000°,Azm111.0000°

IDC Error ellipse: s-maj=9.8km s-min=6.3km az=71.0.

NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=107.0. Felt at Ibaraki, Oyama, Yamato, Yokosuka and Zama. Recorded [4 JMA] in Ibaraki.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c136; s111,c203; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$-0.77±.02; $M_{r\theta}$0.14±.01; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$0.61±.01; Best double couple: NP1:ϕ_s14.00000°,δ63.00000° ,λ89.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ93.00000°. Principal axes: T 1.0660,Plg72.0000°,Azm281.0000°; N -0.0270,Plg1.0000°,Azm15.0000° ; P -1.0390,Plg18.0000°,Azm105.0000° $M_0$1.05300×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**16 14 46 09.0–.42**	**38.55N–.03**	**141.86E–.03**	**44–3**	**5.3b,4.5s**	**1105**	**1-155**
NIED	III	16 14 46 00	38.50N	141.80E	50	5.2W,4.5s		**¶16327735**
BJI	III	16 14 46 07.1	38.50N	141.70E	30	5.2b,5.1b		
MOS	III	16 14 46 08.1–.94	38.67N	141.74E	41	5.5b,4.4s		
ISCJB	III	16 14 46 08.9–.45	38.55N–.02	141.71E–.02	50–3	5.3b,4.5s		
JMA	III	16 14 46 10.0–.20	38.54N	141.80E	54–2	5.3,4.5s		
IDC	III	16 14 46 10.9–1.5	38.56N	141.71E	56–12	5.2,5.0		
GCMT	III	16 14 46 11.4–.20	38.61N	141.86E	51–0	5.2W,5.0		
NEIC	III	16 14 46 11.4–.44	38.54N	141.66E	62–4	5.2b,5.0		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ20.00000°,λ82.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ93.00000°. $M_0$6.22000×10^{16}

MOS Error ellipse: s-maj=5.8km s-min=3.8km az=98.5.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=150.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=11.6km s-min=10.1km az=97.0.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s77,c124; s100,c191; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.59±.01; $M_{r\theta}$0.27±.01; $M_{\theta\phi}$-0.17±.01; $M_{\phi r}$0.49±.01; Best double couple: NP1:ϕ_s24.00000°,δ65.00000° ,λ96.00000°. NP2:ϕ_s191.00000°,δ26.00000°,λ78.00000°. Principal axes: T 0.8990,Plg70.0000°,Azm305.0000°; N -0.0560,Plg5.0000°,Azm202.0000° ; P -0.8440,Plg20.0000°,Azm110.0000° $M_0$0.87100×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=136.0. Felt at Misawa. Recorded [4 JMA] in Iwate.

(229) Off east coast of Honshu

ISC	**III**	**16 20 44 42.9–.44**	**37.39N–.04**	**143.69E–.03**	**23–2**	**5.2b,5.1s**	**606**	**2-153**
NIED	III	16 20 44 00	37.40N	143.60E	5	5.1W,5.1s		**¶17196529**
IDC	III	16 20 44 39.0–.39	37.31N	143.76E	0	4.9,4.8		
BJI	III	16 20 44 40.2	37.53N	143.46E	8	5.4b,5.2s		
ISCJB	III	16 20 44 40.6–.78	37.41N–.02	143.59E–.02	13–4	5.1b,5.0s		
NEIC	III	16 20 44 41.2–1.8	37.34N	143.64E	10–11	5.3b,5.0s		
GCMT	III	16 20 44 41.2–.20	37.41N	143.79E	12	5.1W,5.0s		
JMA	III	16 20 44 42.6–.50	37.37N	143.62E	47	5.2,5.0s		
MOS	III	16 20 44 44.8–.95	37.70N	143.62E	33	5.5b,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ35.00000°,λ-99.00000°. NP2:ϕ_s201.00000°,δ55.00000°,λ-84.00000°. $M_0$5.84000×10^{16}

IDC Error ellipse: s-maj=11.5km s-min=9.4km az=106.0.

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=160.6.

NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=135.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c66; s114,c205; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.45±.10 $M_{\theta\theta}$0.95±.10; $M_{\phi\phi}$5.50±.09; $M_{r\theta}$-0.17±.33; $M_{\theta\phi}$2.15±.08; $M_{\phi r}$-0.00±.33; Best double couple: NP1:ϕ_s23.00000°,δ45.00000° ,λ-88.00000°. NP2:ϕ_s200.00000°,δ45.00000°,λ-92.00000°. Principal axes: T 6.3560,Plg0.0000°,Azm112.0000°; N 0.1020,Plg1.0000°,Azm202.0000° ; P -6.4540,Plg89.0000°,Azm10.0000° $M_0$6.40500×10^{16}

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.

MOS Error ellipse: s-maj=6.6km s-min=4.1km az=102.0.

(229) Off east coast of Honshu

ISC	**III**	**16 22 03 19.6–.41**	**37.68N–.04**	**143.50E–.04**	**29–2**	**5.2b,4.5s**	**557**	**2-154**
NIED	III	16 22 03 00	37.60N	143.40E	5	4.7W,4.5s		**¶602663617**
IDC	III	16 22 03 14.9–.45	37.55N	143.56E	0	4.9,4.9b		
NEIC	III	16 22 03 18.8–1.3	37.59N	143.48E	22–9	5.1b,4.9b		
GCMT	III	16 22 03 18.8–.60	37.60N	143.56E	12	4.9W,4.9b		
BJI	III	16 22 03 19.0	37.58N	143.29E	29	5.2b,5.0b		
JMA	III	16 22 03 19.1–.30	37.57N	143.41E	57	4.9,5.0b		
ISCJB	III	16 22 03 20.3–.16	37.73N–.02	143.35E–.02	39	5.0b,4.6s		
MOS	III	16 22 03 20.7–.83	38.01N	143.38E	33	5.5b,4.6s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ43.00000°,λ-58.00000°. NP2:ϕ_s171.00000°,δ55.00000°,λ-116.00000°. $M_0$1.46000×10^{16}

IDC Error ellipse: s-maj=13.0km s-min=10.7km az=124.0.

NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=143.0.

GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c11; s72,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.85±.10 $M_{\theta\theta}$0.06±.10; $M_{\phi\phi}$1.79±.07; $M_{r\theta}$-1.00±.39; $M_{\theta\phi}$0.50±.07; $M_{\phi r}$-1.44±.30; Best double couple: NP1:ϕ_s28.00000°,δ67.00000° ,λ-79.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ-114.00000°. Principal axes: T 2.5610,Plg21.0000°,Azm110.0000°; N 0.0250,Plg10.0000°,Azm204.0000°

; P -2.5920,Plg67.0000°,Azm318.0000° $M_0$2.57700×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=155.7.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=93.5.

(135) Near coast of central Chile

ISC	**III**	**16 22 36 17.4–.59**	**32.57S–.03**	**71.59W–.04**	**34–2**	**5.5b,5.3s**	**919**	**1-176**
IDC	III	16 22 36 12.0–.42	32.52S	71.58W	0	5.2,5.1L		**¶16329748**
SJA	III	16 22 36 12.9–1.2	32.69S	71.89W	17–13	5.7L,5.3W		
BJI	III	16 22 36 14.8	32.10S	71.54W	25	5.8s,5.5		
NEIC	III	16 22 36 16.0	32.56S	71.73W	33	5.6L,5.5b		
GCMT	III	16 22 36 16.0–.10	32.57S	71.89W	37–0	5.5W,5.5b		
GUC	III	16 22 36 16.1–.71	32.56S	71.73W	33–6	5.6L,5.5b		
MOS	III	16 22 36 16.3–1.0	32.54S	71.53W	33	5.6b,5.5s		
ISCJB	III	16 22 36 17.5–.46	32.52S–.02	71.61W–.05	48–4	5.4b,5.3s		

ISC Event type fe.
NEIC Event type fe. Felt [V] at Cabildo, Hijuelas, La Ligua, Papudo, Petorca, Puchuncavi and Zapallar; [IV] at Concon, Putaendo, Quillota, Quilpue, Quintero, Rancagua, San Felipe, Talagante, Tiltil, Valparaiso, Villa Alemana and Vina del Mar. Felt in much of central Chile as far as La Serena and Rengo. Felt [II] at Mendoza, Argentina. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c168; s104,c158;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.69±.03 $M_{\theta\theta}$0.13±.03; $M_{\phi\phi}$-1.82±.03; $M_{r\theta}$0.13±.03; $M_{\theta\phi}$-0.23±.02; $M_{\phi r}$-1.29±.04; Best double couple: NP1:ϕ_s179.00000°,δ63.00000°,λ83.00000°. NP2:ϕ_s15.00000° ,δ28.00000°,λ105.00000°. Principal axes: T 2.1320,Plg71.0000°,Azm73.0000° ; N 0.1280,Plg7.0000°,Azm182.0000°; P -2.2570,Plg18.0000°,Azm275.0000° $M_0$2.19500×10^{17}
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 23 38 18.9–.29**	**39.16N–.03**	**142.66E–.03**	**26–1**	**5.7b,5.2s**	**1677**	**1-161**
NIED	III	16 23 38 00	39.20N	142.70E	26	5.3W,5.2s		**¶16329751**
BJI	III	16 23 38 16.1	39.08N	142.68E	26	5.4b,5.2b		
JMA	III	16 23 38 17.5–.20	39.16N	142.73E	22–2	5.5,5.2b		
ISCJB	III	16 23 38 18.2–.68	39.10N–.02	142.61E–.02	30–4	5.6b,5.2s		
MOS	III	16 23 38 18.3–.87	39.28N	142.62E	27	5.8b,5.2s		
GCMT	III	16 23 38 20.4–.20	39.29N	142.69E	30–0	5.3W,5.2s		
NEIC	III	16 23 38 20.4–.25	39.13N	142.53E	35–1	5.7b,5.3W		
IDC	III	16 23 38 21.7–1.8	39.15N	142.63E	46–16	5.3,5.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ31.00000°,λ-73.00000°. NP2:ϕ_s245.00000°,δ61.00000°,λ-100.00000°. $M_0$1.02000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=159.1.
MOS Error ellipse: s-maj=5.4km s-min=3.5km az=97.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c145; s100,c182;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.99±.03 $M_{\theta\theta}$0.86±.02; $M_{\phi\phi}$0.12±.02; $M_{r\theta}$0.35±.02; $M_{\theta\phi}$0.50±.01; $M_{\phi r}$0.42±.03; Best double couple: NP1:ϕ_s232.00000° ,δ59.00000°,λ-103.00000°. NP2:ϕ_s75.00000°,δ33.00000°,λ-70.00000°. Principal axes: T 1.2330,Plg13.0000°,Azm331.0000°; N -0.0830,Plg11.0000°,Azm239.0000° ; P -1.1490,Plg73.0000°,Azm110.0000° $M_0$1.19100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=139.0. Felt at Misawa. Recorded [3 JMA] in Iwate. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.17 $M_{\theta\theta}$0.53 $M_{\phi\phi}$0.64 $M_{r\theta}$0.26 $M_{\theta\phi}$0.62 $M_{\phi r}$0.30 Best double couple: NP1:ϕ_s43.00000°,δ36.00000° ,λ-89.00000°. NP2:ϕ_s222.00000°,δ54.00000°,λ-91.00000°. Principal axes: T 1.2700,Plg9.0000°,Azm312.0000°; N -0.0400,Plg1.0000°,Azm222.0000° ; P -1.2300,Plg81.0000°,Azm129.0000° $M_0$1.30000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=7.7km az=90.0.

(153) South Sandwich Islands region

ISC	**III**	**17 01 00 04.6–.39**	**57.95S–.07**	**25.61W–.06**	**58–3**	**5.4b,4.6s**	**404**	**7-175**
MOS	III	17 01 00 02.9–.91	57.82S	25.58W	49	5.5b,4.6s		**¶16461878**
IDC	III	17 01 00 04.8–.36	57.99S	25.68W	58–2	5.1,4.9b		
ISCJB	III	17 01 00 04.8–1.5	57.91S–.05	25.6W–.10	71–13	5.2b,4.9b		
GCMT	III	17 01 00 07.9–.20	58.05S	25.05W	54–0	5.3W,4.9b		
NEIC	III	17 01 00 07.9–1.1	57.92S	25.61W	85–9	5.4b,4.9b		
BJI	III	17 01 00 08.2	57.90S	25.70W	85	5.5s,5.4b		

ISC Event type se.
MOS Error ellipse: s-maj=31.2km s-min=18.7km az=101.7.
IDC Error ellipse: s-maj=14.6km s-min=11.2km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=7.0km az=146.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c114; s91,c138; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.91±.02 $M_{\theta\theta}$0.10±.02; $M_{\phi\phi}$-1.01±.02; $M_{r\theta}$-0.01±.02; $M_{\theta\phi}$0.25±.01; $M_{\phi r}$0.13±.02; Best double couple: NP1:ϕ_s349.00000°,δ49.00000° ,λ92.00000°. NP2:ϕ_s166.00000°,δ41.00000°,λ87.00000°. Principal axes: T 0.9150,Plg86.0000°,Azm283.0000°; N 0.1570,Plg2.0000°,Azm168.0000° ; P -1.0730,Plg4.0000°,Azm78.0000° $M_0$0.99400×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=55.0.

(186) Vanuatu Islands

ISC	**III**	**17 02 48 01.9–.42**	**17.24S–.04**	**167.76E–.03**	**28–2**	**6.1s,5.6b**	**975**	**10-167**
BJI	III	17 02 47 58.0	17.30S	167.70E	15	6.1s,6.0b		**¶16461880**
NEIC	III	17 02 47 59.0–.00	17.14S	167.74E	15	6.1s,6.0b		
NEIC	III	17 02 48 00.0–.12	17.28S	167.83E	17	6.3W,6.2W		
GCMT	III	17 02 48 00.0–.10	17.32S	167.64E	22–0	6.2W,6.2W		
ISCJB	III	17 02 48 01.6–1.1	17.26S–.02	167.75E–.02	33–7	6.1s,5.5b		
IDC	III	17 02 48 01.8–1.5	17.29S	167.71E	25–9	5.9,5.9s		
MOS	III	17 02 48 02.2–1.2	17.20S	167.68E	37	6.1s,5.8b		
NEIC	III	17 02 48 20.5–.00	16.83S	167.34E	30	6.1s,5.8b		

ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}2.13 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$-2.05 $M_{r\theta}$0.75 $M_{\theta\phi}$0.38 $M_{\phi r}$-1.68 Best double couple: NP1:ϕ_s161.00000° ,δ65.00000°,λ83.00000°. NP2:ϕ_s358.00000°,δ25.00000°,λ105.00000°. Principal axes: T 2.8400,Plg68.0000°,Azm56.0000°; N -0.0500,Plg6.0000°,Azm163.0000° ; P -2.7900,Plg20.0000°,Azm256.0000° $M_0$2.80000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.9km az=125.0. Felt [IV] at Port-Vila. Also felt at Luganville. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$4.90000×10^{18} Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}1.55 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-1.66 $M_{r\theta}$0.21 $M_{\theta\phi}$0.36 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s167.00000°,δ59.00000°,λ88.00000°. NP2:ϕ_s351.00000° ,δ31.00000°,λ93.00000°. Principal axes: T 1.7600,Plg76.0000°,Azm72.0000° ; N 0.1800,Plg1.0000°,Azm168.0000°; P -1.9400,Plg14.0000°,Azm259.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s165.00000°,δ70.00000°,λ90.00000°. Principal axes: T Plg65.0000°,Azm75.0000°; N Plg0.0000°,Azm0.0000°; P Plg25.0000° ,Azm255.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c346; s144,c523;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}2.10±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$-2.15±.01; $M_{r\theta}$0.44±.02; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$-1.41±.02; Best double couple: NP1:ϕ_s166.00000°,δ62.00000°,λ86.00000°. NP2:ϕ_s354.00000° ,δ28.00000°,λ98.00000°. Principal axes: T 2.5620,Plg73.0000°,Azm66.0000° ; N 0.1100,Plg4.0000°,Azm168.0000°; P -2.6730,Plg17.0000°,Azm259.0000° $M_0$2.61800×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=31.2.
IDC Error ellipse: s-maj=8.7km s-min=7.6km az=43.0.
MOS Error ellipse: s-maj=7.4km s-min=6.8km az=43.4.
NEIC Event type se. Moment Tensor Solution. s81 Moment tensor: Scale 10^{18}Nm; M_{rr}2.51 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$-2.41 $M_{r\theta}$0.59 $M_{\theta\phi}$0.33 $M_{\phi r}$-1.63 Best double couple: NP1:ϕ_s165.00000° ,δ62.00000°,λ84.00000°. NP2:ϕ_s358.00000°,δ28.00000°,λ101.00000°. Principal axes: T 3.0700,Plg72.0000°,Azm61.0000°; N -0.0900,Plg5.0000°,Azm168.0000° ; P -2.9900,Plg17.0000°,Azm260.0000° $M_0$3.00000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 04 13 57.6–.27**	**40.17N–.03**	**142.38E–.03**	**38–1**	**5.8s,5.7b**	**1677**	**1-159**
NIED	III	17 04 13 00	40.10N	142.40E	41	6.1W,5.7b		**¶602668515**
BJI	III	17 04 13 50.8	40.07N	142.69E	25	5.9,5.9b		
NEIC	III	17 04 13 56.8–.10	40.14N	142.17E	29	6.2W,6.1W		
IDC	III	17 04 13 57.0–2.9	40.12N	142.38E	34–21	5.8,5.8s		
MOS	III	17 04 13 56.4–.89	40.28N	142.25E	33	6.0b,5.9s		
GCMT	III	17 04 13 56.8–.10	40.17N	142.55E	41–0	6.1W,5.9s		
JMA	III	17 04 13 57.3–.10	40.13N	142.41E	31–1	5.9,5.9s		
ISCJB	III	17 04 13 57.5–.35	40.15N–.02	142.30E–.02	49–3	5.8s,5.7b		
NEIC	III	17 04 13 58.0–.00	40.20N	142.24E	35	5.8s,5.7b		
NEIC	III	17 04 14 15.2–.00	40.32N	143.23E	44	5.8s,5.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ20.00000°,λ63.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ99.00000°. $M_0$1.52000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=144.0. Felt [III] at Misawa. Recorded [4 JMA] in Aomori and Iwate. Moment Tensor Solution. Best double couple: NP1: ϕ_s188.00000°,δ19.00000°,λ72.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ96.00000°. Principal axes: T 1.3200,Plg62.0000°,Azm307.0000°; N 0.0000,Plg6.0000°,Azm205.0000° ; P -1.3100,Plg27.0000°,Azm113.0000°
IDC Error ellipse: s-maj=11.3km s-min=9.6km az=82.0.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=101.5. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c299; s135,c461;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}1.29±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-1.36±.01; $M_{r\theta}$0.56±.01; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$1.21±.02; Best double couple: NP1:ϕ_s21.00000°,δ68.00000°,λ98.00000°. NP2:ϕ_s180.00000° ,δ24.00000°,λ71.00000°. Principal axes: T 1.8610,Plg66.0000°,Azm306.0000° ; N 0.0850,Plg8.0000°,Azm198.0000°; P -1.9450,Plg22.0000°,Azm105.0000° $M_0$1.90300×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=150.2.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{18}Nm; M_{rr}0.79 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$-0.58 $M_{r\theta}$0.47 $M_{\theta\phi}$0.00 $M_{\phi r}$2.06 Best double couple: NP1:ϕ_s12.00000° ,δ81.00000°,λ92.00000°. NP2:ϕ_s180.00000°,δ9.00000°,λ78.00000°. Principal axes: T 2.3300,Plg53.0000°,Azm284.0000°; N -0.2300,Plg1.0000°,Azm191.0000° ; P -2.1100,Plg36.0000°,Azm100.0000° $M_0$2.20000×10^{18}
NEIC Event type se. Moment Tensor Solution. s82 Moment tensor: Scale 10^{18}Nm; M_{rr}1.23 $M_{\theta\theta}$-0.16 $M_{\phi\phi}$-1.07 $M_{r\theta}$0.09 $M_{\theta\phi}$-0.27 $M_{\phi r}$1.64 Best double couple: NP1:ϕ_s202.00000° ,δ19.00000°,λ106.00000°. NP2:ϕ_s6.00000°,δ72.00000°,λ85.00000°. Principal axes: T 2.0800,Plg62.0000°,Azm268.0000°; N -0.1200,Plg5.0000°,Azm7.0000° ; P -1.9700,Plg27.0000°,Azm100.0000° $M_0$2.00000×10^{18}

(229) Off east coast of Honshu

ISC	**III**	**17 06 12 42.8–.32**	**37.78N–.03**	**143.42E–.03**	**25–1**	**5.5b,5.3s**	**1254**	**2-163**
NIED	III	17 06 12 00	37.70N	143.50E	8	5.6W,5.3s		**¶16329765**
IDC	III	17 06 12 38.6–.31	37.70N	143.52E	0	5.2,5.2		
ISCJB	III	17 06 12 38.3–.71	37.74N–.02	143.44E–.02	6–4	5.4b,5.3s		
JMA	III	17 06 12 40.4–.40	37.75N	143.51E	42	5.7,5.3s		
GCMT	III	17 06 12 41.5–.10	37.79N	143.46E	12	5.6W,5.3s		
NEIC	III	17 06 12 41.5–1.4	37.71N	143.44E	16–8	5.5b,5.2s		
MOS	III	17 06 12 41.6–.85	37.72N	143.45E	33	5.7b,5.5s		
BJI	III	17 06 12 43.8	37.82N	142.86E	25	5.8s,5.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ23.00000°,λ-97.00000°. NP2:ϕ_s202.00000°,δ68.00000°,λ-87.00000°. $M_0$2.47000×10^{17}
IDC Error ellipse: s-maj=10.0km s-min=8.4km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=158.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s79,c127; s127,c293;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.96±.03 $M_{\theta\theta}$0.24±.02; $M_{\phi\phi}$1.72±.02; $M_{r\theta}$0.81±.09; $M_{\theta\phi}$0.58±.02; $M_{\phi r}$1.95±.08; Best double couple: NP1:ϕ_s202.00000° ,δ69.00000°,λ-88.00000°. NP2:ϕ_s17.00000°,δ21.00000°,λ-95.00000°. Principal axes: T 2.8450,Plg24.0000°,Azm290.0000°; N 0.0430,Plg2.0000°,Azm21.0000° ; P -2.8880,Plg66.0000°,Azm115.0000° $M_0$2.86700×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=134.0.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=108.8.

(229) Off east coast of Honshu

ISC	**III**	**17 06 24 30.0–.49**	**37.28N–.03**	**142.18E–.04**	**19–2**	**5.3b,5.1s**	**964**	**1-154**
NIED	III	17 06 24 00	37.30N	142.10E	26	5.1W,5.1s		**¶16329767**
IDC	III	17 06 24 26.7–.33	37.25N	142.19E	0	5.1,5.1		
ISCJB	III	17 06 24 27.1–.94	37.25N–.02	142.12E–.02	9–5	5.2b,5.1s		
BJI	III	17 06 24 27.4	37.14N	142.14E	18	5.5b,5.4s		
JMA	III	17 06 24 29.8–.20	37.26N	142.09E	32–4	5.2,5.4s		
MOS	III	17 06 24 32.5–.78	37.64N	142.03E	33	5.4b,5.4s		
NEIC	III	17 06 24 33.4–.32	37.26N	142.07E	41–3	5.3b,5.4s		
GCMT	III	17 06 24 33.4–.30	37.28N	142.02E	21–2	5.2W,5.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ12.00000°,λ166.00000°. NP2:ϕ_s282.00000°,δ87.00000°,λ78.00000°. $M_0$5.00000×10^{16}
IDC Error ellipse: s-maj=10.6km s-min=7.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=153.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=98.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=136.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s7,c7; s82,c110; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.17±.42 $M_{\theta\theta}$-2.18±.25; $M_{\phi\phi}$-0.99±.24; $M_{r\theta}$-7.55±1.13; $M_{\theta\phi}$-0.25±.13; $M_{\phi r}$1.45±.40; Best double couple: NP1:ϕ_s280.00000° ,δ81.00000°,λ93.00000°. NP2:ϕ_s81.00000°,δ10.00000°,λ71.00000°. Principal axes: T 8.6880,Plg54.0000°,Azm194.0000°; N -1.1140,Plg3.0000°,Azm99.0000° ; P -7.5770,Plg36.0000°,Azm7.0000° $M_0$8.13200×10^{16}

(229) Off east coast of Honshu

ISC	**III**	**17 06 42 45.0–.35**	**38.72N–.04**	**144.02E–.04**	**31–2**	**5.3b,4.8s**	**584**	**2-160**
NIED	III	17 06 42 00	38.80N	144.00E	5	5.0W,4.8s		**¶602668042**
JMA	III	17 06 42 43.4–.30	38.83N	144.02E	55	4.9,4.8s		
BJI	III	17 06 42 43.1	38.80N	143.80E	22	5.6b,5.1b		
MOS	III	17 06 42 44.8–.96	38.87N	143.87E	33	5.4b,5.1b		
NEIC	III	17 06 42 45.8–.54	38.67N	143.93E	35–5	5.2b,5.1b		
GCMT	III	17 06 42 45.8–.30	38.68N	144.02E	16–1	5.2W,5.1b		
ISCJB	III	17 06 42 45.1–.14	38.74N–.02	143.87E–.02	41	5.2b,4.8s		
IDC	III	17 06 42 46.1–.44	38.64N	143.98E	41–3	4.9,4.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ37.00000°,λ-74.00000°. NP2:ϕ_s1.00000°,δ55.00000°,λ-101.00000°. $M_0$3.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=107.5.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.7km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c29; s93,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.14±.37 $M_{\theta\theta}$1.38±.21; $M_{\phi\phi}$4.76±.23; $M_{r\theta}$-3.10±.76; $M_{\theta\phi}$1.00±.13; $M_{\phi r}$-2.24±.57; Best double couple: NP1:ϕ_s34.00000°,δ61.00000° ,λ-75.00000°. NP2:ϕ_s185.00000°,δ32.00000°,λ-115.00000°. Principal axes: T 5.8550,Plg15.0000°,Azm113.0000°; N 1.6600,Plg13.0000°,Azm207.0000° ; P -7.5150,Plg70.0000°,Azm335.0000° $M_0$6.68500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=150.1.
IDC Error ellipse: s-maj=10.1km s-min=8.4km az=129.0.

(186) Vanuatu Islands

ISC	**III**	**17 08 03 04.4–.45**	**17.35S–.04**	**167.82E–.03**	**31–2**	**5.7s,5.5b**	**705**	**10-167**
IDC	III	17 08 02 58.6–1.8	17.33S	167.99E	0–10	5.5,5.5s		**¶16911946**
GCMT	III	17 08 03 00.8–.10	17.34S	167.69E	30–0	5.9W,5.5s		
NEIC	III	17 08 03 00.8–.12	17.27S	167.90E	10	5.8W,5.8W		
BJI	III	17 08 03 03.0	17.30S	167.80E	30	6.0s,5.7		
ISCJB	III	17 08 03 03.0–.12	17.26S–.02	167.85E–.02	33	5.7s,5.4b		
MOS	III	17 08 03 03.3–1.0	17.20S	167.76E	33	5.8b,5.7s		
NEIC	III	17 08 03 03.0–.00	17.09S	167.71E	23	5.8b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=10.8km az=40.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c262; s135,c381;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.67±.01 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$-0.70±.01; $M_{r\theta}$0.17±.01; $M_{\theta\phi}$0.16±.00; $M_{\phi r}$-0.40±.01; Best double couple: NP1: ϕ_s162.00000°,δ61.00000°,λ83.00000°. NP2:ϕ_s355.00000°,δ30.00000°,λ102.00000°. Principal axes: T 0.7960,Plg73.0000°,Azm56.0000°; N 0.0580,Plg6.0000°,Azm165.0000° ; P -0.8540,Plg16.0000°,Azm257.0000° $M_0$0.82500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.8km az=145.0. Felt [IV] at Port-Vila. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}4.87 $M_{\theta\theta}$-0.05 $M_{\phi\phi}$-4.81 $M_{r\theta}$1.44 $M_{\theta\phi}$0.10 $M_{\phi r}$-2.94 Best double couple: NP1:ϕ_s166.00000°,δ62.00000°,λ78.00000°. NP2:ϕ_s11.00000°,δ30.00000°,λ112.00000°. Principal axes: T 6.0000,Plg70.0000° ,Azm49.0000°; N -0.3200,Plg11.0000°,Azm172.0000°; P -5.6800,Plg16.0000° ,Azm265.0000° $M_0$5.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.1km az=26.6.
MOS Error ellipse: s-maj=7.8km s-min=7.2km az=122.1.

NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}6.50 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$-5.80 $M_{r\theta}$1.10 $M_{\theta\phi}$1.36 $M_{\phi r}$-1.92 Best double couple: NP1:ϕ_s161.00000° ,δ54.00000°,λ84.00000°. NP2:ϕ_s350.00000°,δ36.00000°,λ98.00000°. Principal axes: T 6.9000,Plg79.0000°,Azm48.0000°; N -0.4000,Plg4.0000°,Azm164.0000° ; P -6.5000,Plg9.0000°,Azm255.0000° $M_0$6.70000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 25 25.0–.52**	**36.68N–.03**	**141.79E–.03**	**26–3**	**5.4b,5.1s**	**1281**	**1-157**
NIED	III	17 08 25 00	36.70N	141.50E	26	5.3W,5.1s		**¶602443657**
IDC	III	17 08 25 20.9–.29	36.64N	141.76E	0	5.3,5.3		
JMA	III	17 08 25 22.7–.20	36.68N	141.85E	17–2	5.4,5.3		
BJI	III	17 08 25 22.6	36.66N	141.72E	26	5.3b,5.3b		
ISCJB	III	17 08 25 24.5–.70	36.62N–.02	141.75E–.02	32–4	5.3b,5.1s		
MOS	III	17 08 25 27.2–.84	37.10N	141.66E	38	5.5b,5.2s		
GCMT	III	17 08 25 28.5–.40	36.54N	141.94E	82–5	5.3W,5.2s		
NEIC	III	17 08 25 28.5–.52	36.66N	141.63E	52–4	5.2b,5.2s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ38.00000°,λ-68.00000°. NP2:ϕ_s360.00000°,δ55.00000°,λ-106.00000°. $M_0$8.52000×10^{16}

IDC Error ellipse: s-maj=11.5km s-min=8.0km az=85.0.

JMA Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=153.6.

MOS Error ellipse: s-maj=6.0km s-min=4.0km az=111.2.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s5,c5; s82,c117; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.06 $M_{\theta\theta}$-1.14±.05; $M_{\phi\phi}$0.16±.05; $M_{r\theta}$-0.04±.05; $M_{\theta\phi}$0.49±.04; $M_{\phi r}$-0.41±.03; Best double couple: NP1:ϕ_s132.00000°,δ53.00000° ,λ123.00000°. NP2:ϕ_s265.00000°,δ48.00000°,λ55.00000°. Principal axes: T 1.1670,Plg64.0000°,Azm104.0000°; N 0.1330,Plg26.0000°,Azm290.0000° ; P -1.3050,Plg2.0000°,Azm199.0000° $M_0$1.23600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=136.0. Recorded [3 JMA] in Fukushima.

(127) Chile-Argentina border region

ISC	**III**	**17 11 14 24.0–1.4**	**32.62S–.03**	**71.80W–.05**	**23–9**	**5.1b,4.7s**	**599**	**1-176**
ISCJB	III	17 11 14 20.8–.15	32.58S–.03	71.91W–.03	10	4.9b,4.6s		**¶16331280**
IDC	III	17 11 14 20.6–.45	32.50S	71.59W	0	4.8,4.8L		
BJI	III	17 11 14 23.2	31.85S	70.85W	19	5.5s,5.3		
GUC	III	17 11 14 24.1–.33	32.59S	71.69W	13–1	5.0L,5.3		
NEIC	III	17 11 14 24.0	32.66S	71.76W	13	5.1b,5.0L		
MOS	III	17 11 14 24.6–1.1	32.55S	71.55W	33	5.1b,5.0L		
GCMT	III	17 11 14 26.7–.20	32.67S	72.00W	35–0	5.2W,5.0L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.3km az=42.6.

IDC Error ellipse: s-maj=20.3km s-min=14.4km az=76.0.

GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.

NEIC Event type fe. Felt [IV] at La Ligua, Quilpue, San Bernardo, Tiltil, Valparaiso, Vina del Mar and Zapallar; [III] at Coquimbo, Hijuelas, La Serena, Quillota, San Antonio, Santiago and Talagante; [II] at Rancagua. Also felt at Limache and San Vicente. Felt at Mendoza, Argentina. After GUC.

MOS Error ellipse: s-maj=16.4km s-min=8.2km az=101.5.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c82; s74,c101; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.62±.02 $M_{\theta\theta}$0.07±.02; $M_{\phi\phi}$-0.69±.02; $M_{r\theta}$0.08±.02; $M_{\theta\phi}$0.01±.01; $M_{\phi r}$-0.45±.03; Best double couple: NP1:ϕ_s174.00000°,δ62.00000° ,λ84.00000°. NP2:ϕ_s6.00000°,δ28.00000°,λ101.00000°. Principal axes: T 0.7700,Plg72.0000°,Azm70.0000°; N 0.0650,Plg5.0000°,Azm176.0000° ; P -0.8350,Plg17.0000°,Azm268.0000° $M_0$0.80200×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 12 32 03.4–.34**	**35.56N–.03**	**140.87E–.03**	**28–2**	**5.3b,5.3s**	**1039**	**0-166**
BJI	III	17 12 31 56.3	35.45N	141.05E	11	5.5s,5.4		**¶602443670**
NIED	III	17 12 32 00	35.60N	141.00E	29	5.5W,5.4		
JMA	III	17 12 32 02.4–.10	35.63N	140.98E	28–1	5.7,5.4		
ISCJB	III	17 12 32 02.4–.44	35.53N–.02	140.80E–.02	31–3	5.3s,5.3b		
GCMT	III	17 12 32 04.6–.10	35.58N	140.89E	29–0	5.5W,5.3b		
NEIC	III	17 12 32 04.6–.59	35.50N	140.76E	36–5	5.5W,5.4b		
IDC	III	17 12 32 04.0–3.1	35.55N	140.90E	33–23	5.2,5.2s		
MOS	III	17 12 32 04.6–1.0	35.57N	140.79E	49	5.5b,5.3s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ31.00000°,λ130.00000°. NP2:ϕ_s42.00000°,δ67.00000°,λ68.00000°. $M_0$1.86000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s37.00000°,δ55.00000°,λ79.00000°. NP2: ϕ_s236.00000°,δ37.00000°,λ105.00000°. Principal axes: T Plg77.0000°,Azm270.0000° ; N Plg9.0000°,Azm44.0000°; P Plg9.0000°,Azm135.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=153.9.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c174; s120,c249;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.39±.04 $M_{\theta\theta}$-1.78±.03; $M_{\phi\phi}$-0.61±.03; $M_{r\theta}$0.59±.06; $M_{\theta\phi}$-0.94±.02; $M_{\phi r}$1.03±.06; Best double couple: NP1:ϕ_s48.00000° ,δ58.00000°,λ77.00000°. NP2:ϕ_s252.00000°,δ34.00000°,λ110.00000°. Principal axes: T 2.7290,Plg73.0000°,Azm284.0000°; N -0.2060,Plg11.0000°,Azm55.0000° ; P -2.5230,Plg12.0000°,Azm148.0000° $M_0$2.62600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=128.0. Felt at Iruma, Matsudo, Toride and Zama. Recorded [4 JMA] in Chiba, Ibaraki and Saitama. Moment Tensor Solution. s48 Moment tensor: Scale 10^{17}Nm; M_{rr}1.11 $M_{\theta\theta}$-1.75 $M_{\phi\phi}$0.63 $M_{r\theta}$0.61 $M_{\theta\phi}$-0.18 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s297.00000°,δ42.00000°,λ142.00000°. NP2:ϕ_s56.00000° ,δ66.00000°,λ54.00000°. Principal axes: T 1.7800,Plg54.0000°,Azm281.0000° ; N 0.1400,Plg32.0000°,Azm73.0000°; P -1.9200,Plg13.0000°,Azm171.0000° $M_0$1.90000×10^{17}

IDC Error ellipse: s-maj=11.6km s-min=7.5km az=89.0.

MOS Error ellipse: s-maj=6.2km s-min=3.9km az=111.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 12 54 52.8–.37**	**36.78N–.03**	**141.32E–.03**	**32–2**	**5.9b,5.5s**	**1532**	**1-165**
NIED	III	17 12 54 00	36.70N	141.30E	44	5.8W,5.5s		**¶601668862**
BJI	III	17 12 54 49.3	36.71N	141.31E	28	5.7b,5.7b		
MOS	III	17 12 54 52.2–.81	36.88N	141.22E	33	6.0b,5.5s		
NEIC	III	17 12 54 52.6–.08	36.76N	141.20E	29	6.1b,5.9W		
GCMT	III	17 12 54 52.6–.10	36.80N	141.42E	40–0	5.8W,5.9W		
NEIC	III	17 12 54 52.0–.00	36.56N	141.51E	25	5.8W,5.9W		
JMA	III	17 12 54 53.6–.20	36.74N	141.31E	47–2	5.7,5.9W		
ISCJB	III	17 12 54 53.3–.35	36.75N–.02	141.24E–.02	45–3	5.8b,5.5s		
IDC	III	17 12 54 56.0–1.1	36.74N	141.16E	59–10	5.4,5.4		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ38.00000°,λ-91.00000°. NP2:ϕ_s49.00000°,δ52.00000°,λ-89.00000°. $M_0$6.49000×10^{17}

MOS Error ellipse: s-maj=6.4km s-min=3.7km az=106.2.

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=130.0. Felt [IV] at Yokosuka. Also felt at Fujisawa, Furukawa, Narita, Tokyo, Toride and Yokohama. Recorded [4 JMA] in Fukushima, Ibaraki and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.28 $M_{\theta\theta}$-2.58 $M_{\phi\phi}$7.86 $M_{r\theta}$-0.24 $M_{\theta\phi}$3.30 $M_{\phi r}$1.32 Best double couple: NP1:ϕ_s33.00000°,δ43.00000°,λ-66.00000°. NP2:ϕ_s181.00000° ,δ52.00000°,λ-11.00000°. Principal axes: T 8.9100,Plg5.0000°,Azm286.0000° ; N -3.3600,Plg16.0000°,Azm195.0000°; P -5.5500,Plg73.0000°,Azm32.0000° $M_0$7.80000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c265; s128,c334;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.67±.06 $M_{\theta\theta}$3.07±.04; $M_{\phi\phi}$3.61±.05; $M_{r\theta}$-0.82±.04; $M_{\theta\phi}$2.22±.03; $M_{\phi r}$-0.07±.04; Best double couple: NP1:ϕ_s46.00000° ,δ48.00000°,λ-84.00000°. NP2:ϕ_s218.00000°,δ42.00000°,λ-96.00000°. Principal axes: T 5.6060,Plg3.0000°,Azm132.0000°; N 1.1440,Plg4.0000°,Azm222.0000° ; P -6.7400,Plg85.0000°,Azm8.0000° $M_0$6.17300×10^{17}

NEIC Event type se. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.71 $M_{\theta\theta}$3.08 $M_{\phi\phi}$2.62 $M_{r\theta}$-0.62 $M_{\theta\phi}$1.73 $M_{\phi r}$-1.02 Best double couple: NP1:ϕ_s46.00000° ,δ51.00000°,λ-93.00000°. NP2:ϕ_s231.00000°,δ39.00000°,λ-85.00000°. Principal axes: T 4.7200,Plg6.0000°,Azm138.0000°; N 1.1300,Plg2.0000°,Azm47.0000° ; P -5.8500,Plg83.0000°,Azm293.0000° $M_0$5.40000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=165.5.

IDC Error ellipse: s-maj=9.6km s-min=6.5km az=84.0.

(229) Off east coast of Honshu

ISC	**III**	**17 18 55 35.2–.36**	**37.18N–.03**	**142.41E–.03**	**16–1**	**5.7b,5.1s**	**1049**	**1-164**
NIED	III	17 18 55 00	37.10N	142.60E	8	5.4W,5.1s		**¶602443674**
JMA	III	17 18 55 31.9–.30	37.14N	142.52E	9	5.7,5.1s		
ISCJB	III	17 18 55 32.7–.76	37.10N–.02	142.36E–.02	9–4	5.5b,5.2s		
IDC	III	17 18 55 32.2–.38	37.04N	142.46E	0	5.5,5.5b		
GCMT	III	17 18 55 36.9–.10	37.11N	142.39E	12	5.4W,5.5b		
BJI	III	17 18 55 36.6	37.20N	142.05E	27	5.6s,5.5b		
NEIC	III	17 18 55 36.9–.61	37.13N	142.34E	26–4	5.6b,5.5W		
MOS	III	17 18 55 38.3–.84	37.50N	142.31E	36	5.8b,5.3s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ47.00000°,λ-132.00000°. NP2:ϕ_s8.00000°,δ57.00000°,λ-54.00000°. $M_0$1.56000×10^{17}

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=148.8.

IDC Error ellipse: s-maj=11.1km s-min=9.8km az=99.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s86,c128; s114,c227;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.31±.02 $M_{\theta\theta}$-0.15±.02; $M_{\phi\phi}$1.46±.02; $M_{r\theta}$-0.20±.06; $M_{\theta\phi}$-0.67±.02; $M_{\phi r}$-0.11±.05; Best double couple: NP1: ϕ_s353.00000°,δ47.00000°,λ-72.00000°. NP2:ϕ_s147.00000°,δ46.00000°,λ-109.00000°. Principal axes: T 1.7000,Plg1.0000°,Azm70.0000°; N -0.3330,Plg13.0000°,Azm160.0000° ; P -1.3640,Plg77.0000°,Azm337.0000° $M_0$1.53200×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=137.0. Recorded [3 JMA] in Ibaraki. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.98 $M_{\theta\theta}$0.47 $M_{\phi\phi}$1.51 $M_{r\theta}$-0.86 $M_{\theta\phi}$-0.99 $M_{\phi r}$-0.67 Best double couple: NP1:ϕ_s352.00000°,δ52.00000° ,λ-58.00000°. NP2:ϕ_s127.00000°,δ48.00000°,λ-12.00000°. Principal axes: T 2.1100,Plg2.0000°,Azm60.0000°; N 0.3700,Plg25.0000°,Azm151.0000° ; P -2.4800,Plg65.0000°,Azm325.0000° $M_0$2.30000×10^{17}

MOS Error ellipse: s-maj=5.6km s-min=3.5km az=105.7.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 00 41 19.3–.38**	**35.90N–.03**	**141.67E–.03**	**29–2**	**5.3b,5.0s**	**918**	**1-158**
NIED	III	18 00 41 00	36.00N	141.90E	8	5.4W,5.0s		**¶16334576**
IDC	III	18 00 41 14.6–.36	35.84N	141.75E	0	5.1,5.1		
JMA	III	18 00 41 16.2–.30	35.99N	141.83E	28	5.4,5.1		
ISCJB	III	18 00 41 17.2–.71	35.87N–.02	141.64E–.02	22–4	5.3b,5.0s		
NEIC	III	18 00 41 18.7–1.2	35.88N	141.64E	23–8	5.3b,5.0s		
GCMT	III	18 00 41 18.7–.20	35.92N	141.72E	12	5.1W,5.0s		
BJI	III	18 00 41 18.4	36.08N	141.50E	30	5.2b,5.2b		
MOS	III	18 00 41 18.8–.93	35.94N	141.62E	33	5.6b,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ25.00000°,λ-27.00000°. NP2:ϕ_s109.00000°,δ79.00000°,λ-113.00000°. $M_0$1.27000×10^{17}

IDC Error ellipse: s-maj=10.9km s-min=9.8km az=108.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=152.6.

NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=138.0. Recorded [3 JMA] in Chiba and Ibaraki.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c64; s114,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.00±.11 $M_{\theta\theta}$-2.08±.10; $M_{\phi\phi}$5.08±.09; $M_{r\theta}$0.55±.31; $M_{\theta\phi}$-3.21±.08; $M_{\phi r}$-0.41±.28; Best double couple: NP1:ϕ_s300.00000°,δ69.00000° ,λ-151.00000°. NP2:ϕ_s199.00000°,δ64.00000°,λ-24.00000°. Principal axes: T 6.3440,Plg4.0000°,Azm69.0000°; N -2.7840,Plg55.0000°,Azm334.0000° ; P -3.5600,Plg35.0000°,Azm161.0000° $M_0$4.95200×10^{16}

MOS Error ellipse: s-maj=6.3km s-min=3.8km az=116.5.

(229) Off east coast of Honshu

ISC	**III**	**18 03 23 56.2–.43**	**37.79N–.03**	**143.51E–.03**	**23–2**	**5.5b,5.0s**	**1460**	**2-163**
NIED	III	18 03 23 00	37.80N	143.40E	5	5.5W,5.0s		**¶16334584**
IDC	III	18 03 23 52.2–.35	37.73N	143.65E	0	5.2,5.1		
GCMT	III	18 03 23 53.8–.10	37.86N	143.47E	12	5.5W,5.1		
NEIC	III	18 03 23 53.8–1.2	37.76N	143.49E	6–7	5.6b,5.0s		
BJI	III	18 03 23 54.5	37.87N	143.28E	9	5.5s,5.4b		
ISCJB	III	18 03 23 54.8–.09	37.77N–.02	143.49E–.02	22	5.4b,5.1s		
JMA	III	18 03 23 55.0–.30	37.80N	143.45E	44	5.5,5.1s		
MOS	III	18 03 23 57.0–1.0	37.88N	143.50E	33	5.6b,5.1s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ23.00000°,λ-85.00000°. NP2:ϕ_s193.00000°,δ67.00000°,λ-92.00000°. $M_0$1.76000×10^{17}

IDC Error ellipse: s-maj=10.8km s-min=9.5km az=90.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c176; s133,c316;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49±.01 $M_{\theta\theta}$0.06±.01; $M_{\phi\phi}$1.43±.01; $M_{r\theta}$0.29±.04; $M_{\theta\phi}$0.34±.01; $M_{\phi r}$1.22±.04; Best double couple: NP1:ϕ_s193.00000° ,δ65.00000°,λ-90.00000°. NP2:ϕ_s13.00000°,δ25.00000°,λ-90.00000°. Principal axes: T 1.9650,Plg20.0000°,Azm283.0000°; N -0.0180,Plg0.0000°,Azm13.0000° ; P -1.9450,Plg70.0000°,Azm104.0000° $M_0$1.95500×10^{17}

NEIC Event type se. Error ellipse: s-maj=2.9km s-min=1.9km az=142.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.7km az=164.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

MOS Error ellipse: s-maj=5.7km s-min=3.9km az=104.1.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 08 01 34.4–.34**	**35.80N–.03**	**140.96E–.03**	**30–2**	**5.3b,5.0s**	**778**	**0-158**
NIED	III	18 08 01 00	35.90N	141.30E	38	5.3W,5.0s		**¶602670500**
BJI	III	18 08 01 29.0	35.70N	141.20E	22	5.2b,5.2b		
ISCJB	III	18 08 01 32.8–.82	35.72N–.02	140.91E–.02	28–5	5.2b,5.0s		
GCMT	III	18 08 01 33.8–.20	35.74N	141.17E	36–0	5.3W,5.0s		
NEIC	III	18 08 01 33.8–.28	35.73N	140.88E	24–1	5.2b,5.0s		
JMA	III	18 08 01 34.4–.10	35.82N	141.11E	35–1	5.4,5.0s		
MOS	III	18 08 01 34.7–.86	36.09N	140.85E	30	5.6b,5.1s		
IDC	III	18 08 01 36.3–1.1	35.75N	141.04E	46–9	5.2,5.0		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ13.00000°,λ113.00000°. NP2:ϕ_s19.00000°,δ78.00000°,λ85.00000°. $M_0$1.15000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=148.9.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c149; s111,c187; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00±.02 $M_{\theta\theta}$-0.18±.02; $M_{\phi\phi}$-0.82±.02; $M_{r\theta}$0.22±.02; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.83±.02; Best double couple: NP1:ϕ_s16.00000°,δ66.00000° ,λ88.00000°. NP2:ϕ_s202.00000°,δ24.00000°,λ95.00000°. Principal axes: T 1.3320,Plg69.0000°,Azm282.0000°; N -0.0910,Plg2.0000°,Azm17.0000° ; P -1.2420,Plg21.0000°,Azm108.0000° $M_0$1.28700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=142.0. Recorded [4 JMA] in Ibaraki.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s228.00000°,δ62.00000°,λ135.00000°. NP2: ϕ_s344.00000°,δ51.00000°,λ37.00000°. Principal axes: T Plg51.0000°,Azm190.0000° ; N Plg38.0000°,Azm23.0000°; P Plg6.0000°,Azm288.0000°

MOS Error ellipse: s-maj=6.3km s-min=3.7km az=105.7.

IDC Error ellipse: s-maj=11.3km s-min=6.5km az=94.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 19 53 05.5–.46**	**37.62N–.03**	**141.58E–.03**	**55–3**	**5.2b,4.9s**	**776**	**1-152**
NIED	III	18 19 53 00	37.60N	141.60E	47	5.3W,4.9s		**¶16337759**
BJI	III	18 19 53 02.4	37.55N	141.72E	61	5.3b,5.2b		
MOS	III	18 19 53 04.2–.88	37.86N	141.46E	43	5.5b,4.9s		
ISCJB	III	18 19 53 04.9–.33	37.59N–.02	141.46E–.02	58–2	5.2b,4.8s		
JMA	III	18 19 53 04.5–.10	37.60N	141.59E	43–2	5.2,4.8s		
IDC	III	18 19 53 06.7–1.7	37.61N	141.48E	62–15	4.9,4.8		
NEIC	III	18 19 53 07.0–.46	37.58N	141.41E	65–4	5.2b,4.8		
GCMT	III	18 19 53 07.0–.10	37.65N	141.69E	49–0	5.3W,4.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ18.00000°,λ93.00000°. NP2:ϕ_s20.00000°,δ72.00000°,λ89.00000°. $M_0$8.84000×10^{16}

MOS Error ellipse: s-maj=6.0km s-min=3.9km az=101.9.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=139.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=11.0km s-min=9.9km az=125.0.

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=137.0. Recorded [3 JMA] in Fukushima and Miyagi.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c148; s106,c199; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.83±.02 $M_{\theta\theta}$-0.16±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.23±.01; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.60±.01; Best double couple: NP1:ϕ_s21.00000°,δ64.00000° ,λ89.00000°. NP2:ϕ_s204.00000°,δ26.00000°,λ92.00000°. Principal axes:

T 1.0520,Plg71.0000°,Azm289.0000°; N -0.0510,Plg1.0000°,Azm22.0000°
; P -1.0010,Plg19.0000°,Azm112.0000° $M_0$1.02700×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**18 23 32 59.7–.25**	**39.21N–.03**	**142.43E–.03**	**32–1**	**5.6b,5.1s**	**1539**	**1-162**
NIED	III	18 23 32 00	39.20N	142.40E	41	5.5W,5.1s		**¶602669128**
BJI	III	18 23 32 54.8	39.06N	142.55E	24	5.5b,5.5b		
IDC	III	18 23 32 59.7–2.3	39.14N	142.30E	31–16	5.2,5.1		
JMA	III	18 23 32 59.8–.10	39.19N	142.42E	37–1	5.7,5.1		
ISCJB	III	18 23 33 00.3–.37	39.13N–.02	142.29E–.02	48–3	5.6b,5.1s		
MOS	III	18 23 33 00.2–.94	39.21N	142.26E	45	5.8b,5.1s		
NEIC	III	18 23 33 01.4–.18	39.16N	142.23E	42–1	5.6b,5.5W		
GCMT	III	18 23 33 01.4–.10	39.24N	142.36E	25–0	5.6W,5.5W		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ5.00000°,λ132.00000°. NP2:ϕ_s16.00000°,δ86.00000°,λ87.00000°. $M_0$1.74000×10^{17}

IDC Error ellipse: s-maj=9.5km s-min=7.4km az=95.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=148.4.

MOS Error ellipse: s-maj=5.9km s-min=3.8km az=102.4.

NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=138.0. Recorded [4 JMA] in Iwate. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}0.47 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$0.05 $M_{r\theta}$0.38 $M_{\theta\phi}$1.19 $M_{\phi r}$1.34 Best double couple: NP1:ϕ_s93.00000°,δ46.00000°,λ18.00000°. NP2:ϕ_s350.00000°,δ77.00000°,λ135.00000°. Principal axes: T 2.0700,Plg40.0000° ,Azm301.0000°; N -0.4200,Plg44.0000°,Azm158.0000°; P -1.6500,Plg19.0000° ,Azm48.0000° $M_0$1.90000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c127; s118,c200; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.09±.02 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$-0.18±.01; $M_{r\theta}$1.00±.04; $M_{\theta\phi}$-0.15±.01; $M_{\phi r}$2.86±.07; Best double couple: NP1:ϕ_s19.00000°,δ88.00000° ,λ89.00000°. NP2:ϕ_s219.00000°,δ2.00000°,λ110.00000°. Principal axes: T 2.9570,Plg47.0000°,Azm289.0000°; N 0.1530,Plg1.0000°,Azm19.0000° ; P -3.1100,Plg43.0000°,Azm110.0000° $M_0$3.03400×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**19 01 22 45.4–.40**	**39.67N–.03**	**143.19E–.03**	**24–2**	**5.7b,5.7s**	**1783**	**1-154**
NIED	III	19 01 22 00	39.70N	143.30E	17	5.8W,5.7s		**¶602442495**
BJI	III	19 01 22 40.9	39.70N	143.10E	10	6.3s,6.2		
JMA	III	19 01 22 42.3–.30	39.66N	143.35E	13–4	6.1,6.2		
NEIC	III	19 01 22 44.0–.00	39.47N	143.57E	15	6.1,6.2		
GCMT	III	19 01 22 44.8–.10	39.67N	143.29E	22–0	5.9W,6.2		
NEIC	III	19 01 22 44.8–.11	39.70N	142.90E	15	5.9W,5.9W		
ISCJB	III	19 01 22 45.0–.57	39.63N–.02	143.09E–.02	30–4	5.8s,5.6b		
MOS	III	19 01 22 45.4–.98	39.74N	143.09E	33	5.9b,5.9s		
IDC	III	19 01 22 46.3–3.9	39.62N	143.20E	31–28	5.7,5.7s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ19.00000°,λ80.00000°. NP2:ϕ_s21.00000°,δ71.00000°,λ94.00000°. $M_0$6.23000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}3.77 $M_{\theta\theta}$-0.64 $M_{\phi\phi}$-3.13 $M_{r\theta}$2.62 $M_{\theta\phi}$-0.27 $M_{\phi r}$6.65 Best double couple: NP1:ϕ_s20.00000° ,δ77.00000°,λ94.00000°. NP2:ϕ_s180.00000°,δ13.00000°,λ71.00000°. Principal axes: T 8.3100,Plg57.0000°,Azm295.0000°; N -0.7600,Plg4.0000°,Azm198.0000° ; P -7.5500,Plg32.0000°,Azm106.0000° $M_0$8.00000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c242; s135,c398;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}4.65±.06 $M_{\theta\theta}$-0.06±.04; $M_{\phi\phi}$-4.59±.05; $M_{r\theta}$2.44±.09; $M_{\theta\phi}$-0.92±.03; $M_{\phi r}$5.90±.13; Best double couple: NP1:ϕ_s20.00000° ,δ72.00000°,λ96.00000°. NP2:ϕ_s182.00000°,δ19.00000°,λ73.00000°. Principal axes: T 7.9360,Plg63.0000°,Azm299.0000°; N -0.0060,Plg6.0000°,Azm198.0000° ; P -7.9330,Plg27.0000°,Azm106.0000° $M_0$7.93500×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=144.0. Recorded [3 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s78 Moment tensor: Scale 10^{17}Nm; M_{rr}4.06 $M_{\theta\theta}$-0.55 $M_{\phi\phi}$-3.51 $M_{r\theta}$2.38 $M_{\theta\phi}$-2.62 $M_{\phi r}$5.45 Best double couple: NP1:ϕ_s219.00000° ,δ19.00000°,λ104.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ85.00000°. Principal axes: T 7.0300,Plg63.0000°,Azm287.0000°; N 0.9300,Plg4.0000°,Azm26.0000° ; P -7.9600,Plg26.0000°,Azm118.0000° $M_0$7.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm280.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm100.0000°

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=152.8.

MOS Error ellipse: s-maj=6.3km s-min=4.1km az=96.5.

IDC Error ellipse: s-maj=12.0km s-min=10.1km az=106.0.

(229) Off east coast of Honshu

ISC	**III**	**19 01 27 13.6–.54**	**39.61N–.03**	**143.10E–.04**	**30–3**	**5.8s,5.3b**	**557**	**1-154**
NIED	III	19 01 27 00	39.60N	143.30E	17	5.4W,5.3b		**¶16338027**
JMA	III	19 01 27 10.4–.30	39.61N	143.32E	21	5.7,5.3b		
BJI	III	19 01 27 11.7	39.48N	142.84E	21	5.9s,5.8		
MOS	III	19 01 27 11.4–1.2	39.55N	143.31E	33	5.6b,5.8		
IDC	III	19 01 27 13.8–2.4	39.63N	143.24E	31–17	5.0,4.8		
ISCJB	III	19 01 27 13.6–.41	39.57N–.02	143.12E–.03	42–3	5.8s,5.3b		
GCMT	III	19 01 27 13.6–.30	39.57N	143.56E	37–0	5.5W,5.3b		
NEIC	III	19 01 27 13.7–1.7	39.55N	143.05E	32–11	5.4b,5.3b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ18.00000°,λ72.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ96.00000°. $M_0$1.32000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

MOS Error ellipse: s-maj=10.3km s-min=7.1km az=88.4.

IDC Error ellipse: s-maj=12.4km s-min=9.9km az=95.0.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=42.1.

GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c55; s101,c174; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.53±.10 $M_{\theta\theta}$-0.28±.05; $M_{\phi\phi}$-1.26±.05; $M_{r\theta}$0.47±.04; $M_{\theta\phi}$-0.32±.02; $M_{\phi r}$0.99±.04; Best double couple: NP1:ϕ_s21.00000°,δ64.00000° ,λ94.00000°. NP2:ϕ_s193.00000°,δ27.00000°,λ82.00000°. Principal axes: T 1.9030,Plg71.0000°,Azm300.0000°; N -0.1900,Plg3.0000°,Azm200.0000° ; P -1.7180,Plg19.0000°,Azm109.0000° $M_0$1.81100×10^{17}

NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=133.0.

(706) Northern Sumatera

ISC	**III**	**19 02 33 46.3–.41**	**0.79N–.03**	**97.40E–.04**	**27–2**	**5.1b,4.7s**	**467**	**1-150**
IDC	III	19 02 33 42.3–.37	0.84N	97.43E	0	4.9,4.9b		**¶16338030**
BJI	III	19 02 33 43.1	0.56N	97.49E	31	5.3b,5.2b		
ISCJB	III	19 02 33 45.5–.47	0.81N–.02	97.45E–.03	33–4	5.0b,4.7s		
MOS	III	19 02 33 45.8–.94	0.89N	97.49E	33	5.3b,4.7s		
DJA	III	19 02 33 46.4–.70	1N–3.0	97E–5.0	31–7	5.8b,5.7b		
NEIC	III	19 02 33 47.6–.54	0.83N	97.45E	36–4	5.2b,5.7b		
GCMT	III	19 02 33 47.6–.50	0.79N	97.36E	31–0	5.1W,5.7b		
KLM	III	19 02 33 48.1	0.81N	97.40E	39	6.0s,5.2b		

ISC Event type fe.

IDC Error ellipse: s-maj=11.3km s-min=9.7km az=49.0.

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=145.8.

MOS Error ellipse: s-maj=8.2km s-min=4.6km az=113.7.

NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=2.9km az=51.0. Felt [III] at Gunungsitoli.

GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c48; s47,c60; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.18±.34 $M_{\theta\theta}$-2.39±.21; $M_{\phi\phi}$-3.80±.27; $M_{r\theta}$0.22±.29; $M_{\theta\phi}$1.19±.14; $M_{\phi r}$-1.78±.32; Best double couple: NP1:ϕ_s156.00000°,δ54.00000° ,λ95.00000°. NP2:ϕ_s327.00000°,δ36.00000°,λ83.00000°. Principal axes: T 6.4880,Plg80.0000°,Azm90.0000°; N -1.7660,Plg4.0000°,Azm333.0000° ; P -4.7320,Plg9.0000°,Azm242.0000° $M_0$5.61000×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**19 09 56 49.5–.36**	**36.81N–.02**	**140.45E–.02**	**17–1**	**6.0b,5.5s**	**2054**	**0-165**
NIED	III	19 09 56 00	36.70N	140.70E	5	5.8W,5.5s		**¶17197181**
BJI	III	19 09 56 43.3	36.61N	140.83E	16	5.9s,5.7		
ISCJB	III	19 09 56 47.6–.52	36.75N–.01	140.36E–.01	15–3	5.9b,5.5s		
GCMT	III	19 09 56 47.8–.10	36.86N	140.48E	12	5.8W,5.5s		
NEIC	III	19 09 56 47.7–.07	36.80N	140.27E	6	6.1b,5.7W		
JMA	III	19 09 56 48.0	36.78N	140.57E	5–1	6.1,5.7W		
MOS	III	19 09 56 49.4–1.1	36.77N	140.31E	30	6.2b,5.6s		
IDC	III	19 09 56 51.9–1.6	36.81N	140.39E	33–11	5.6,5.6		
NEIC	III	19 09 56 51.0–.00	36.66N	140.93E	12	5.6,5.6		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ42.00000°,λ-86.00000°. NP2:ϕ_s141.00000°,δ48.00000°,λ-94.00000°. $M_0$6.35000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=152.5.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c242; s142,c432;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.88±.04 $M_{\theta\theta}$3.01±.04; $M_{\phi\phi}$3.87±.05; $M_{r\theta}$1.33±.12; $M_{\theta\phi}$-2.71±.04; $M_{\phi r}$2.14±.13; Best double couple: NP1: ϕ_s156.00000°,δ51.00000°,λ-69.00000°. NP2:ϕ_s305.00000°,δ44.00000°,λ-113.00000°. Principal axes: T 6.2320,Plg4.0000°,Azm231.0000°; N 1.3840,Plg16.0000°,Azm322.0000° ; P -7.6160,Plg74.0000°,Azm129.0000° $M_0$6.92400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=143.0. Felt [V] at Yokohama, [IV] at Tokyo, [III] at Ayase and Yokosuka and [II] at Sagamihara. Felt widely in southeastern Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.50 $M_{\theta\theta}$3.53 $M_{\phi\phi}$0.97 $M_{r\theta}$-0.83 $M_{\theta\phi}$-1.56 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s304.00000° ,δ42.00000°,λ-77.00000°. NP2:ϕ_s106.00000°,δ49.00000°,λ-10.00000°. Principal axes: T 4.3000,Plg4.0000°,Azm205.0000°; N 0.3500,Plg9.0000°,Azm114.0000° ; P -4.6500,Plg80.0000°,Azm317.0000° $M_0$4.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s125.00000°,δ30.00000°,λ-90.00000°. NP2: ϕ_s305.00000°,δ60.00000°,λ-90.00000°. Principal axes: T Plg15.0000°,Azm35.0000° ; N Plg0.0000°,Azm0.0000°; P Plg75.0000°,Azm215.0000°

MOS Error ellipse: s-maj=6.4km s-min=3.9km az=109.6.

IDC Error ellipse: s-maj=9.5km s-min=5.9km az=107.0.

NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.58 $M_{\theta\theta}$2.31 $M_{\phi\phi}$2.28 $M_{r\theta}$0.82 $M_{\theta\phi}$-1.39 $M_{\phi r}$-0.27 Best double couple: NP1:ϕ_s310.00000° ,δ50.00000°,λ-95.00000°. NP2:ϕ_s138.00000°,δ40.00000°,λ-83.00000°. Principal axes: T 3.7500,Plg5.0000°,Azm43.0000°; N 0.9300,Plg3.0000°,Azm313.0000° ; P -4.6800,Plg83.0000°,Azm187.0000° $M_0$4.30000×10^{17}

(185) Vanuatu Islands region

ISC	**III**	**19 12 11 16.0–.56**	**19.49S–.05**	**167.99E–.05**	**33–2**	**5.2b,4.6s**	**391**	**3-165**
IDC	III	19 12 11 10.4–.51	19.52S	168.10E	0	4.8,4.7		**¶17197220**
MOS	III	19 12 11 14.6–1.0	19.45S	167.88E	33	5.5b,4.7		
ISCJB	III	19 12 11 15.7–.15	19.49S–.04	167.95E–.03	43	5.2b,4.6s		
NEIC	III	19 12 11 16.1–1.9	19.47S	167.97E	34–13	5.4b,4.6s		
GCMT	III	19 12 11 16.1–.20	19.32S	167.78E	16–0	5.2W,4.6s		
BJI	III	19 12 11 16.6	19.09S	168.03E	43	5.2b,5.1s		

ISC Event type se.

IDC Error ellipse: s-maj=16.2km s-min=12.9km az=138.0.

MOS Error ellipse: s-maj=9.4km s-min=8.7km az=47.0.

ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.5km az=155.7.

NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.4km az=172.0.

GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c57; s99,c154; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.71±.23 $M_{\theta\theta}$0.61±.13; $M_{\phi\phi}$5.10±.15; $M_{r\theta}$-0.62±.48; $M_{\theta\phi}$-0.53±.09; $M_{\phi r}$3.87±.38; Best double couple: NP1:ϕ_s172.00000°,δ63.00000° ,λ-91.00000°. NP2:ϕ_s354.00000°,δ27.00000°,λ-88.00000°. Principal axes: T 6.4260,Plg18.0000°,Azm263.0000°; N 0.5500,Plg1.0000°,Azm172.0000° ; P -6.9770,Plg72.0000°,Azm79.0000° $M_0$6.70100×10^{16}

(703) Andaman Islands region

ISC	**III**	**19 12 42 41.0–.46**	**12.95N–.04**	**92.41E–.04**	**28–3**	**4.7b,3.9s**	**319**	**1-161**
IDC	III	19 12 42 36.3–.38	12.92N	92.41E	0	4.6,4.6		**¶16339146**
BJI	III	19 12 42 36.5	12.66N	92.30E	24	4.8b,4.5b		
BKK	III	19 12 42 38.0–1.4	13N–3.0	92E–13	0	4.9b,4.8b		
ISCJB	III	19 12 42 38.8–.87	12.97N–.03	92.40E–.02	26–6	4.6b,3.9s		
MOS	III	19 12 42 38.7–.98	12.96N	92.48E	27	4.9b,3.9s		
NEIC	III	19 12 42 41.2–.18	12.95N	92.42E	30	4.8b,3.9s		
DJA	III	19 12 42 43.2–.50	13N–4.0	92E–4.0	59–9	5.9b,5.5		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

(408) Ascension Island region

ISC	**III**	**19 18 43 03.6–.32**	**10.29S–.06**	**13.20W–.06**	**14**	**5.1b,4.8s**	**411**	**2-150**
IDC	III	19 18 43 01.4–.43	10.32S	13.16W	0	4.7,4.7		**¶16339531**
BJI	III	19 18 43 01.1	10.20S	13.20W	10	5.6b,5.3s		
MOS	III	19 18 43 01.7–.95	10.14S	13.25W	10	5.4b,4.8s		
ISCJB	III	19 18 43 02.1–.24	10.23S–.04	13.21W–.04	14	5.0b,4.8s		
NEIC	III	19 18 43 03.2–.20	10.25S	13.23W	10	5.3b,4.8s		
GCMT	III	19 18 43 03.2–.10	10.26S	13.19W	12	5.4W,4.8s		

ISC Event type se.

IDC Error ellipse: s-maj=12.5km s-min=11.5km az=143.0.

MOS Error ellipse: s-maj=13.4km s-min=5.1km az=62.6.

ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=166.5.

NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=143.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c124; s134,c253; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.50±.02 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$1.45±.02; $M_{r\theta}$0.41±.06; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$-0.02±.05; Best double couple: NP1:ϕ_s336.00000°,δ48.00000° ,λ-109.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-70.00000°. Principal axes: T 1.4990,Plg2.0000°,Azm79.0000°; N 0.1030,Plg14.0000°,Azm349.0000° ; P -1.6050,Plg76.0000°,Azm177.0000° $M_0$1.55200×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 01 09 43.1–.36**	**39.19N–.03**	**142.63E–.03**	**25–2**	**5.3b,4.9s**	**1015**	**1-155**
NIED	III	20 01 09 00	39.20N	142.60E	23	5.0W,4.9s		**¶16339553**
BJI	III	20 01 09 41.8	39.13N	142.54E	33	5.3b,5.2b		
JMA	III	20 01 09 41.6–.20	39.19N	142.64E	19–1	5.2,5.2b		
GCMT	III	20 01 09 43.8–.20	39.32N	142.66E	34–0	5.1W,5.2b		
NEIC	III	20 01 09 43.8–1.1	39.14N	142.40E	28–7	5.2b,5.2b		
MOS	III	20 01 09 43.0–.93	39.28N	142.52E	33	5.6b,4.7s		
ISCJB	III	20 01 09 44.3–.36	39.16N–.02	142.50E–.02	43–3	5.2b,4.8s		
IDC	III	20 01 09 44.4–3.5	39.15N	142.55E	32–25	4.9,4.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ18.00000°,λ41.00000°. NP2:ϕ_s11.00000°,δ78.00000°,λ104.00000°. $M_0$3.61000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c67; s95,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.16 $M_{\theta\theta}$-0.04±.10; $M_{\phi\phi}$-3.34±.10; $M_{r\theta}$0.91±.12; $M_{\theta\phi}$0.38±.07; $M_{\phi r}$3.35±.13; Best double couple: NP1:ϕ_s8.00000°,δ68.00000° ,λ101.00000°. NP2:ϕ_s161.00000°,δ24.00000°,λ64.00000°. Principal axes: T 4.9580,Plg65.0000°,Azm297.0000°; N -0.2380,Plg10.0000°,Azm184.0000° ; P -4.7250,Plg22.0000°,Azm90.0000° $M_0$4.84200×10^{16}

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=139.0. Recorded [3 JMA] in Aomori and Iwate.

MOS Error ellipse: s-maj=6.3km s-min=4.3km az=100.3.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=141.2.

IDC Error ellipse: s-maj=11.8km s-min=8.8km az=100.0.

(277) Jawa

ISC	**III**	**20 01 20 15.0–.69**	**7.72S–.04**	**106.92E–.03**	**58–6**	**4.8b,4.6s**	**266**	**0-156**
DJA	III	20 01 20 13.6–.20	8S–2.0	107E–2.0	10	5.8b,5.4		**¶16339555**
ISCJB	III	20 01 20 14.5–.38	7.69S–.04	106.92E–.03	69–3	4.7b,5.4		
NEIC	III	20 01 20 16.1–.65	7.47S	106.97E	70–5	4.8b,5.4		
BJI	III	20 01 20 16.2	7.60S	106.90E	73	5.1b,5.0s		
IDC	III	20 01 20 20.9–1.1	7.32S	107.05E	110–9	4.6,4.4		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.1km az=28.5.

NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.6km az=214.0. Felt [III] at Bogor, Pangandaran and Pelabuhanratu. Also felt at Bandung.

IDC Error ellipse: s-maj=14.4km s-min=8.6km az=56.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 01 30 45.5–.38**	**36.97N–.03**	**141.21E–.03**	**27–2**	**5.5b,5.0s**	**1626**	**0-162**
NIED	III	20 01 30 00	36.90N	141.30E	14	5.3W,5.0s		**¶602443744**
IDC	III	20 01 30 41.7–.35	36.96N	141.18E	0	5.3,5.3b		
BJI	III	20 01 30 41.7	36.88N	141.42E	29	5.3b,5.3s		
MOS	III	20 01 30 44.6–1.1	37.03N	141.18E	33	5.7b,4.9s		
NEIC	III	20 01 30 45.1–.54	36.95N	141.01E	22–3	5.5b,4.9s		
GCMT	III	20 01 30 45.2–.10	36.98N	141.20E	18–0	5.4W,4.9s		
ISCJB	III	20 01 30 45.8–.36	36.96N–.02	141.05E–.02	36–3	5.4b,5.0s		
JMA	III	20 01 30 45.5–.10	36.94N	141.18E	29–1	5.5,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ47.00000°,λ-122.00000°. NP2:ϕ_s69.00000°,δ52.00000°,λ-60.00000°. $M_0$9.64000×10^{16}

IDC Error ellipse: s-maj=11.0km s-min=8.7km az=100.0.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=103.3.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=142.0. Recorded [4 JMA] in Fukushima, Ibaraki and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c150; s109,c217; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20±.03 $M_{\theta\theta}$0.61±.02; $M_{\phi\phi}$0.59±.02; $M_{r\theta}$-0.37±.04; $M_{\theta\phi}$0.82±.01; $M_{\phi r}$0.56±.04; Best double couple: NP1:ϕ_s201.00000°,δ54.00000°,λ-123.00000°. NP2:ϕ_s69.00000°,δ48.00000°,λ-53.00000°. Principal axes:
T 1.4310,Plg3.0000°,Azm314.0000°; N 0.1050,Plg26.0000°,Azm222.0000°
; P -1.5310,Plg63.0000°,Azm50.0000° $M_0$1.48100×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=147.2.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 05 55 29.6–.26**	**37.72N–.03**	**141.60E–.03**	**52–1**	**5.3b,5.2s**	**1369**	**1-155**
NIED	III	20 05 55 00	37.70N	141.70E	50	5.5W,5.2s		**¶602443754**
MOS	III	20 05 55 25.0–1.1	37.66N	141.59E	29	5.7b,5.1s		
BJI	III	20 05 55 26.0	37.58N	141.74E	47	5.3b,5.3s		
JMA	III	20 05 55 28.3–.10	37.66N	141.65E	42–2	5.4,5.3s		
ISCJB	III	20 05 55 29.7–.26	37.70N–.02	141.46E–.02	59–2	5.3b,5.1s		
IDC	III	20 05 55 29.4–.34	37.67N	141.52E	49–3	5.0,4.9		
NEIC	III	20 05 55 30.9–.48	37.72N	141.36E	57–4	5.4b,4.9		
GCMT	III	20 05 55 30.9–.10	37.73N	141.67E	49–0	5.6W,4.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ18.00000°,λ90.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ90.00000°. $M_0$2.31000×10^{17}
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=97.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=146.2.
IDC Error ellipse: s-maj=10.1km s-min=6.9km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.5km az=139.0. Recorded [3 JMA] in Fukushima and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s108,c212; s118,c245; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.16±.04 $M_{\theta\theta}$-0.38±.03; $M_{\phi\phi}$-1.78±.03; $M_{r\theta}$0.64±.03; $M_{\theta\phi}$-0.57±.02; $M_{\phi r}$1.62±.03; Best double couple: NP1:ϕ_s21.00000°,δ65.00000°,λ91.00000°. NP2:ϕ_s199.00000°,δ25.00000°,λ88.00000°. Principal axes:
T 2.7940,Plg70.0000°,Azm292.0000°; N -0.1760,Plg1.0000°,Azm200.0000°
; P -2.6190,Plg20.0000°,Azm110.0000° $M_0$2.70600×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 07 54 14.3–.45**	**39.92N–.05**	**143.60E–.05**	**31–2**	**5.2s,4.9b**	**270**	**2-154**
ISCJB	III	20 07 54 09.8–1.3	39.87N–.03	143.63E–.04	12–8	5.1s,4.8b		**¶602707310**
IDC	III	20 07 54 09.2–.42	39.79N	143.65E	0	4.5s,4.5		
JMA	III	20 07 54 12.5–.30	39.91N	143.59E	34	5.1,4.5		
MOS	III	20 07 54 13.3–1.0	39.90N	143.57E	34	5.2b,4.5		
NEIC	III	20 07 54 15.2–.65	39.85N	143.51E	35–5	5.2b,4.5		
BJI	III	20 07 54 20.9	40.21N	142.52E	43	5.5b,5.2s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=37.7.
IDC Error ellipse: s-maj=12.6km s-min=10.4km az=104.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=4.8km az=112.5.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.2km az=136.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 07 56 29.4–.38**	**36.22N–.04**	**141.89E–.04**	**29–2**	**5.2b,5.2s**	**979**	**1-152**
NIED	III	20 07 56 00	36.20N	142.00E	17	5.1W,5.2s		**¶602677328**
IDC	III	20 07 56 25.1–.36	36.18N	141.91E	0	5.1,5.1s		
JMA	III	20 07 56 27.2–.20	36.21N	141.99E	57	5.2,5.1s		
BJI	III	20 07 56 28.6	36.10N	141.47E	19	5.6b,5.4s		
MOS	III	20 07 56 28.2–1.0	36.20N	141.89E	33	5.5b,5.1s		
ISCJB	III	20 07 56 28.3–.85	36.19N–.02	141.81E–.02	29–5	5.2s,5.1b		
NEIC	III	20 07 56 30.5–1.2	36.21N	141.78E	32–8	5.2b,5.1b		
GCMT	III	20 07 56 30.5–.40	36.43N	142.36E	33–1	5.2W,5.1b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ18.00000°,λ116.00000°. NP2:ϕ_s12.00000°,δ74.00000°,λ82.00000°. $M_0$4.68000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=113.6.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=163.1.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=138.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s62,c86; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.46±.07 $M_{\theta\theta}$-0.32±.05; $M_{\phi\phi}$-0.14±.05; $M_{r\theta}$-0.04±.06; $M_{\theta\phi}$-0.71±.03; $M_{\phi r}$0.41±.06; Best double couple: NP1:ϕ_s14.00000°,δ68.00000°,λ42.00000°. NP2:ϕ_s265.00000°,δ51.00000°,λ151.00000°. Principal axes:
T 0.8320,Plg45.0000°,Azm236.0000°; N 0.1610,Plg43.0000°,Azm37.0000°
; P -0.9930,Plg10.0000°,Azm136.0000° $M_0$0.91300×10^{17}

(243) Taiwan region

ISC	**III**	**20 08 00 51.6–.40**	**22.43N–.02**	**121.48E–.02**	**26–2**	**5.4b,5.2s**	**879**	**0-170**
NIED	III	20 08 00 00	22.40N	121.30E	44	5.5W,5.2s		**¶16339573**
JMA	III	20 08 00 48.6–.10	22.39N	121.29E	51–2	5.6,5.2s		
NEIC	III	20 08 00 49.1–.94	22.32N	121.45E	10–5	5.4b,5.2s		
ISCJB	III	20 08 00 49.3–.32	22.38N–.01	121.54E–.01	18–2	5.3b,5.2s		
BJI	III	20 08 00 49.0	22.40N	121.40E	30	5.5b,5.3s		
MOS	III	20 08 00 51.3–1.1	22.42N	121.39E	33	5.7b,5.0s		
TAP	III	20 08 00 51.2	22.44N	121.38E	27–0	5.8L,5.0s		
IDC	III	20 08 00 52.9–1.3	22.29N	121.56E	38–10	5.2,5.0		
GCMT	III	20 08 00 52.8–.20	22.44N	121.34E	27–0	5.4W,5.0		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ32.00000°,λ42.00000°. NP2:ϕ_s221.00000°,δ69.00000°,λ115.00000°. $M_0$1.91000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=100.0. Felt [III] at Kaohsiung and [II] at Tainan. Also felt at Changhwa, Fengshan, Hengchun, Puli, Taipei and Taitung. Felt in Hong Kong. Recorded [4 TAP] in Taitung; [3 TAP] in Chiayi, Kaohsiung, Tainan and Yunlin; [2 TAP] in Changhua, Hualien, Nantou and Pingtung; [1 TAP] in Miaoli, Penghu and Taichung, Taiwan.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=26.3.
MOS Error ellipse: s-maj=14.0km s-min=6.9km az=69.4.
TAP B.
IDC Error ellipse: s-maj=9.9km s-min=7.5km az=69.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c112; s110,c216; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.04 $M_{\theta\theta}$0.65±.02; $M_{\phi\phi}$-1.33±.03; $M_{r\theta}$-0.86±.06; $M_{\theta\phi}$-0.85±.02; $M_{\phi r}$-0.23±.05; Best double couple: NP1:ϕ_s237.00000°,δ72.00000°,λ139.00000°. NP2:ϕ_s342.00000°,δ52.00000°,λ23.00000°. Principal axes:
T 1.6000,Plg41.0000°,Azm192.0000°; N 0.1610,Plg46.0000°,Azm38.0000°
; P -1.7600,Plg13.0000°,Azm294.0000° $M_0$1.68000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 08 23 36.8–.52**	**36.20N–.04**	**141.79E–.05**	**24–3**	**4.5b**	**128**	**1-147**
IDC	III	20 08 23 33.0–.51	36.21N	141.82E	0	5.7,5.7s		**¶16339574**
JMA	III	20 08 23 35.9–.30	36.22N	141.89E	52	4.5,5.7s		
ISCJB	III	20 08 23 35.9–1.2	36.20N–.03	141.82E–.05	29–8	4.5b,5.7s		
NEIC	III	20 08 23 37.0–1.4	36.25N	141.79E	21–9	4.8b,5.7s		

ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=12.0km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.8km az=178.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=117.0.

(249) Luzon

ISC	**III**	**20 08 26 11.1–.26**	**19.08N–.02**	**121.31E–.03**	**40–2**	**5.8b,5.6s**	**1635**	**1-176**
MOS	III	20 08 26 08.4–.91	18.93N	121.44E	33	6.0b,5.6s		**¶16339575**
NEIC	III	20 08 26 09.6–.11	18.99N	121.25E	27	6.0W,5.9W		
GCMT	III	20 08 26 10.7–.10	19.16N	120.99E	50–0	6.0W,5.9W		
NEIC	III	20 08 26 11.0–.00	19.01N	121.26E	36	6.0W,5.9W		
ISCJB	III	20 08 26 11.4–.28	19.09N–.01	121.27E–.02	50–2	5.7b,5.6s		
BJI	III	20 08 26 11.7	19.29N	121.19E	32	5.8b,5.7L		
MAN	III	20 08 26 12	19.06N	121.28E	39	6.1s,6.0b		
IDC	III	20 08 26 12.3–1.9	18.98N	121.41E	50–16	5.5s,5.5		
KLM	III	20 08 26 14.3	19.10N	121.35E	79	6.3s,6.1L		
BKK	III	20 08 26 15.5–.70	19N–3.0	121E–3.0	66–6	6.7,6.1b		
NEIC	III	20 08 26 25.3–.00	19.37N	122.20E	37	6.7,6.1b		

ISC Event type fe.
MOS Error ellipse: s-maj=7.1km s-min=4.1km az=108.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=97.0. Felt [V PIVS] at Pagudpud and Pasuquin; [IV PIVS] at Aparri, Paoay and on Calayan Island; [III PIVS] at Camalaniugan, Gonzaga, Manila and Sinait. Felt in much of northern Luzon. Also felt [III PIVS] at Basco, Batan Islands. Felt [III] in Hong Kong and [II] at Shenzhen, China. Also felt [III] at Kaohsiung, Taiwan. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}8.56 $M_{\theta\theta}$-1.54 $M_{\phi\phi}$-7.03 $M_{r\theta}$-1.33 $M_{\theta\phi}$-0.55 $M_{\phi r}$0.12 Best double couple: NP1:ϕ_s358.00000°,δ45.00000°,λ80.00000°. NP2:ϕ_s193.00000°,δ46.00000°,λ100.00000°. Principal axes:
T 8.7300,Plg83.0000°,Azm185.0000°; N -1.6600,Plg7.0000°,Azm6.0000°
; P -7.0800,Plg0.0000°,Azm276.0000° $M_0$8.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c290; s132,c419;Duration: 2s3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.95±.01 $M_{\theta\theta}$-0.24±.01; $M_{\phi\phi}$-0.71±.01; $M_{r\theta}$-0.15±.01; $M_{\theta\phi}$-0.49±.01; $M_{\phi r}$-0.41±.01; Best double couple: NP1:ϕ_s207.00000°,δ57.00000°,λ84.00000°. NP2:ϕ_s38.00000°,δ33.00000°,λ99.00000°. Principal axes: T 1.0480,Plg77.0000°,Azm98.0000°
; N 0.0650,Plg5.0000°,Azm210.0000°; P -1.1120,Plg12.0000°,Azm301.0000°
$M_0$1.08000×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ62.00000°,λ87.00000°. NP2:ϕ_s32.00000°,δ28.00000°,λ95.00000°. Principal axes:
T 1.1700,Plg72.0000°,Azm111.0000°; N -0.0700,Plg2.0000°,Azm208.0000°
; P -1.1000,Plg17.0000°,Azm299.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=5.8.
MAN Event type fe. INTENSITY V - PASUQUIN & PAGUDPUD ILOCOS NORTE; INTENSITY IV - PAOAY ILOCOS NORTE; CALAYAN ISLAND; APARRI CAGAYAN; INTENSITY III - BASCO BATANES; SINAIT ILOCOS SUR.
IDC Error ellipse: s-maj=9.6km s-min=7.6km az=75.0.
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}9.05 $M_{\theta\theta}$-2.18 $M_{\phi\phi}$-6.86 $M_{r\theta}$-0.95 $M_{\theta\phi}$-3.98 $M_{\phi r}$3.23 Best double couple: NP1:ϕ_s223.00000°,δ39.00000°,λ111.00000°. NP2:ϕ_s16.00000°,δ54.00000°,λ73.00000°. Principal axes:
T 9.9400,Plg75.0000°,Azm236.0000°; N -0.4900,Plg13.0000°,Azm26.0000°
; P -9.4400,Plg7.0000°,Azm118.0000° $M_0$9.70000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 12 03 46.7–.27**	**39.38N–.03**	**141.99E–.03**	**43–1**	**5.8b,5.3s**	**1907**	**1-162**
NIED	III	20 12 03 00	39.30N	142.10E	50	5.8W,5.3s		**¶602442537**
BJI	III	20 12 03 42.6	39.21N	142.14E	42	5.6b,5.6s		
MOS	III	20 12 03 44.7–.95	39.49N	141.87E	33	6.1b,5.4s		
NEIC	III	20 12 03 46.7–.08	39.35N	141.82E	42	5.9b,5.8W		
GCMT	III	20 12 03 46.7–.10	39.39N	142.14E	51–0	5.8W,5.8W		
NEIC	III	20 12 03 47.0–.00	39.41N	142.16E	50	5.8W,5.8W		
JMA	III	20 12 03 47.5–.10	39.34N	142.05E	48–1	5.9,5.8W		
ISCJB	III	20 12 03 47.1–.29	39.36N–.02	141.88E–.02	58–2	5.7b,5.4s		
IDC	III	20 12 03 48.7–1.8	39.34N	141.94E	61–16	5.3s,5.3		
NEIC	III	20 12 04 10.1–.00	40.53N	141.56E	41	5.3s,5.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ21.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ98.00000°. $M_0$5.34000×10^{17}
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=95.7.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=146.0. Felt [III] at Misawa. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s68 Moment tensor: Scale 10^{17}Nm; M_{rr}4.91 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-4.91 $M_{r\theta}$2.55 $M_{\theta\phi}$-1.98 $M_{\phi r}$4.23 Best double couple: NP1:ϕ_s189.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s28.00000°,δ67.00000°,λ98.00000°. Principal axes: T 6.9300,Plg67.0000°,Azm312.0000°; N 0.5800,Plg7.0000°,Azm205.0000°
; P -7.5100,Plg21.0000°,Azm112.0000° $M_0$7.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c240; s125,c357;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}5.07±.06 $M_{\theta\theta}$-0.25±.04; $M_{\phi\phi}$-4.82±.05; $M_{r\theta}$2.12±.05; $M_{\theta\phi}$-1.02±.04; $M_{\phi r}$3.67±.05; Best double couple: NP1:ϕ_s23.00000°,δ65.00000°,λ99.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ71.00000°. Principal axes:
T 6.7080,Plg68.0000°,Azm312.0000°; N -0.2330,Plg8.0000°,Azm199.0000°
; P -6.4780,Plg20.0000°,Azm106.0000° $M_0$6.59300×10^{17}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}3.24 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-2.65 $M_{r\theta}$1.55 $M_{\theta\phi}$-0.43 $M_{\phi r}$4.55 Best double couple: NP1:ϕ_s17.00000°,δ74.00000°,λ93.00000°. NP2:ϕ_s188.00000°,δ16.00000°,λ81.00000°. Principal axes:
T 5.9300,Plg60.0000°,Azm291.0000°; N -0.5300,Plg2.0000°,Azm196.0000°
; P -5.3900,Plg29.0000°,Azm105.0000° $M_0$5.70000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=154.3.
IDC Error ellipse: s-maj=10.3km s-min=7.7km az=87.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}3.75 $M_{\theta\theta}$0.17 $M_{\phi\phi}$-3.92 $M_{r\theta}$-4.01 $M_{\theta\phi}$-1.65 $M_{\phi r}$2.63 Best double couple: NP1:ϕ_s223.00000°,δ42.00000°,λ143.00000°. NP2:ϕ_s342.00000°,δ66.00000°,λ54.00000°. Principal axes:
T 7.2200,Plg54.0000°,Azm207.0000°; N -2.4300,Plg33.0000°,Azm359.0000°
; P -4.7900,Plg14.0000°,Azm98.0000° $M_0$6.00000×10^{17}

(274) Southern Sumatera

ISC	**III**	**20 16 16 40.6–.66**	**0.79S–.05**	**99.83E–.06**	**57**	**4.0b**	**38**	**1-144**
ISCJB	III	20 16 16 41.0–.54	0.76S–.05	99.79E–.06	57	4.1b		**¶17197491**
IDC	III	20 16 16 41.2–1.1	0.84S	99.93E	74–7	4.0,3.8		
KLM	III	20 16 16 42.1	0.86S	99.84E	72	5.0s,4.3b		
DJA	III	20 16 16 43.2–.60	1S–3.0	100E–4.0	38–7	5.8b,5.4		

ISC Event type ke.
ISCJB Event type ke.

(229) Off east coast of Honshu

ISC	**III**	**20 17 08 56.7–.45**	**37.27N–.03**	**143.90E–.03**	**29–2**	**5.3b,5.0s**	**1204**	**2-156**
NIED	III	20 17 08 00	37.20N	143.70E	5	5.2W,5.0s		**¶16339598**
IDC	III	20 17 08 52.1–.39	37.14N	143.96E	0	5.1,5.0		
NEIC	III	20 17 08 56.1–1.2	37.14N	143.85E	23–8	5.3b,5.0		
GCMT	III	20 17 08 56.1–.10	37.21N	143.94E	12	5.2W,5.0		
ISCJB	III	20 17 08 56.2–.09	37.21N–.02	143.82E–.02	35	5.2b,5.0s		
JMA	III	20 17 08 56.2–.30	37.20N	143.72E	62	5.1,5.0s		
MOS	III	20 17 08 57.1–.96	37.51N	143.77E	33	5.6b,4.8s		
BJI	III	20 17 08 57.7	37.38N	143.54E	35	5.4b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ32.00000°,λ-89.00000°. NP2:ϕ_s213.00000°,δ58.00000°,λ-91.00000°. $M_0$7.63000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=11.0km az=116.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=137.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c88; s111,c212; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.28±.01; $M_{\phi\phi}$0.53±.01; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$0.16±.04; Best double couple: NP1:ϕ_s204.00000°,δ49.00000°,λ-104.00000°. NP2:ϕ_s44.00000°,δ43.00000°,λ-75.00000°. Principal axes:
T 0.7580,Plg3.0000°,Azm303.0000°; N 0.0840,Plg10.0000°,Azm213.0000°
; P -0.8420,Plg79.0000°,Azm51.0000° $M_0$0.80000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=1.6km az=166.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=111.6.

(122) Near coast of northern Chile

ISC	**III**	**20 17 12 25.8–.26**	**24.82S–.03**	**70.21W–.05**	**50–2**	**5.4b,4.8s**	**950**	**0-177**
MOS	III	20 17 12 24.2–1.1	24.75S	70.12W	42	5.5b,4.6s		**¶16339599**
ISCJB	III	20 17 12 24.7–.31	24.83S–.02	70.10W–.03	54–2	5.4b,4.7s		
GUC	III	20 17 12 25.0–.58	24.88S	70.21W	49–5	5.3L,4.7s		
GCMT	III	20 17 12 25.0–.30	24.87S	70.61W	56–2	5.1W,4.7s		
NEIC	III	20 17 12 25.0	24.87S	70.20W	49	5.4b,5.0W		
IDC	III	20 17 12 26.3–.31	24.82S	70.04W	53–2	4.9,4.8		
BJI	III	20 17 12 27.1	24.90S	70.00W	47	5.6s,5.5b		
SCB	III	20 17 12 46.6–1.1	23.12S	69.25W	98	4.7L,5.5b		
SJA	III	20 17 12 47.8–5.4	25.82S	68.17W	187–90	3.6L,3.5W		

ISC Event type fe.
MOS Error ellipse: s-maj=14.0km s-min=6.8km az=105.7.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.2km az=165.4.
GUC Error ellipse: s-maj=1.5km s-min=11.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c45; s66,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.54±.26 $M_{\theta\theta}$0.31±.18; $M_{\phi\phi}$-4.86±.17; $M_{r\theta}$1.21±.13; $M_{\theta\phi}$0.17±.14; $M_{\phi r}$-3.21±.19; Best double couple: NP1:ϕ_s167.00000°,δ63.00000°,λ79.00000°. NP2:ϕ_s10.00000°,δ29.00000°,λ110.00000°. Principal axes:
T 5.7570,Plg70.0000°,Azm55.0000°; N 0.1320,Plg10.0000°,Azm172.0000°

; P -5.8970,Plg18.0000°,Azm265.0000° $M_0$5.82700×10^{16}
NEIC Event type fe. Felt [IV] at Taltal; [III] at Caldera, Chanaral, Copiapo, Diego de Almagro and Tierra Amarilla; [II] at Antofagasta. After GUC. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}2.77 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-2.86 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.32 $M_{\phi r}$-3.29 Best double couple: NP1:ϕ_s177.00000°,δ70.00000°,λ83.00000°. NP2:ϕ_s16.00000°,δ21.00000°,λ108.00000°. Principal axes: T 4.3300,Plg64.0000°,Azm76.0000°; N 0.0500,Plg6.0000°,Azm179.0000° ; P -4.3800,Plg25.0000°,Azm272.0000° $M_0$4.30000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=9.3km az=75.0.
SCB Event type ke. Error ellipse: s-maj=28.8km s-min=9.7km az=41.0.
SJA Error ellipse: s-maj=35.4km s-min=56.9km az=-1.0.

(249) Luzon

ISC	**III**	**21 13 29 13.3–.73**	**13.76N–.04**	**123.36E–.04**	**22–6**	**4.0b**	**41**	**1-151**
IDC	III	21 13 29 09.4–.78	13.65N	123.36E	0	4.1,3.9b		**¶16447665**
MAN	III	21 13 29 13	13.81N	123.38E	20	5.5b,4.7s		
NEIC	III	21 13 29 14.7–1.8	13.63N	123.31E	35–17	4.0b,4.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=54.2km s-min=16.2km az=64.0.
MAN Event type fe. INTENSITY IV - NAGA CITY AND PILI.
NEIC Event type fe. Error ellipse: s-maj=25.0km s-min=9.5km az=67.0. Felt [IV PIVS] at Naga and Pili. Also felt at Camaligan, Daet and Magarao.

(706) Northern Sumatera

ISC	**III**	**21 19 34 00.6–.38**	**2.27N–.05**	**96.32E–.05**	**30**	**4.8b**	**146**	**1-145**
IDC	III	21 19 33 55.9–.49	2.29N	96.33E	0	4.6,4.5		**¶16341511**
BJI	III	21 19 33 57.1	2.13N	96.45E	29	5.1b,5.0b		
ISCJB	III	21 19 33 58.8–.26	2.26N–.03	96.25E–.03	30	4.7b,4.3s		
NEIC	III	21 19 34 02.0–.84	2.27N	96.38E	44–7	4.7b,4.3s		
DJA	III	21 19 34 02.4–.40	2N–2.0	96E–4.0	10	5.4b,4.9b		
KLM	III	21 19 34 05.3	2.47N	96.52E	35	5.6s,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.7km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=40.9.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.1km az=47.0. Felt [III] on Pulau Simeulue.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 03 38 35.5–.28**	**35.25N–.03**	**141.08E–.03**	**21–2**	**5.5b,5.5s**	**1564**	**0-162**
NIED	III	22 03 38 00	35.30N	141.20E	20	5.7W,5.5s		**¶602443780**
BJI	III	22 03 38 31.1	35.30N	141.20E	16	5.8s,5.7		
IDC	III	22 03 38 32.5–.33	35.23N	141.06E	0	5.4s,5.4		
NEIC	III	22 03 38 34.0–.00	35.03N	141.05E	20	5.4s,5.4		
JMA	III	22 03 38 34.7–.20	35.26N	141.24E	37–3	5.9,5.4		
ISCJB	III	22 03 38 35.0–.46	35.18N–.02	141.01E–.02	25–3	5.5s,5.5b		
MOS	III	22 03 38 35.3–.91	35.19N	141.04E	33	5.8b,5.6s		
NEIC	III	22 03 38 35.8–.08	35.21N	141.00E	20	5.7,5.7W		
GCMT	III	22 03 38 35.8–.10	35.18N	140.99E	18–0	5.7W,5.7W		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ37.00000°,λ-164.00000°. NP2:ϕ_s225.00000°,δ81.00000°,λ-54.00000°. $M_0$3.60000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=7.9km az=88.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00 $M_{\theta\theta}$-2.00 $M_{\phi\phi}$1.00 $M_{r\theta}$3.00 $M_{\theta\phi}$0.50 $M_{\phi r}$1.60 Best double couple: NP1:ϕ_s65.00000°,δ81.00000°,λ67.00000°. NP2:ϕ_s315.00000°,δ23.00000°,λ159.00000°. Principal axes: T 3.8000,Plg48.0000°,Azm311.0000°; N 0.1000,Plg22.0000°,Azm68.0000° ; P -3.9000,Plg33.0000°,Azm173.0000° $M_0$4.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=159.8.
MOS Error ellipse: s-maj=7.6km s-min=4.4km az=112.5.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=138.0. Felt at Tokyo and Yokosuka. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}0.77 $M_{\theta\theta}$-2.41 $M_{\phi\phi}$1.64 $M_{r\theta}$2.20 $M_{\theta\phi}$1.07 $M_{\phi r}$1.25 Best double couple: NP1:ϕ_s325.00000°,δ41.00000°,λ167.00000°. NP2:ϕ_s65.00000° ,δ82.00000°,λ50.00000°. Principal axes: T 3.3800,Plg39.0000°,Azm298.0000° ; N 0.1800,Plg40.0000°,Azm72.0000°; P -3.5700,Plg26.0000°,Azm185.0000° $M_0$3.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c201; s130,c302;Duration: 1$\pm$7 Moment tensor: Scale 10^{17}Nm; M_{rr}1.29$\pm$.03 $M_{\theta\theta}$-2.53$\pm$.03; $M_{\phi\phi}$1.24$\pm$.03; $M_{r\theta}$3.08$\pm$.14; $M_{\theta\phi}$0.59$\pm$.02; $M_{\phi r}$1.39$\pm$.09; Best double couple: NP1:ϕ_s68.00000° ,δ79.00000°,λ65.00000°. NP2:ϕ_s316.00000°,δ27.00000°,λ155.00000°. Principal axes: T 3.8630,Plg50.0000°,Azm310.0000°; N 0.3870,Plg25.0000°,Azm73.0000° ; P -4.2490,Plg29.0000°,Azm178.0000° $M_0$4.05600×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**22 07 18 46.5–.33**	**37.22N–.03**	**144.05E–.03**	**16–1**	**6.3b,6.2s**	**2404**	**2-163**
NIED	III	22 07 18 00	37.10N	144.20E	8	6.3W,6.2s		**¶602684288**
JMA	III	22 07 18 40.8–.20	37.09N	144.25E	28	6.7,6.2s		
IDC	III	22 07 18 42.4–.31	37.10N	144.13E	0	6.2,6.2s		
BJI	III	22 07 18 44.3	37.25N	144.05E	20	6.7s,6.6b		
ISCJB	III	22 07 18 44.5–.07	37.26N–.01	144.07E–.01	15	6.2s,6.1b		
MOS	III	22 07 18 45.4–1.1	37.35N	144.05E	20	6.5b,6.3s		
GCMT	III	22 07 18 45.4–.00	37.11N	144.00E	12–0	6.4W,6.3s		
NEIC	III	22 07 18 45.4–.08	37.24N	144.00E	11	6.5W,6.4W		
NEIC	III	22 07 18 47.0–.00	37.05N	144.16E	15	6.5W,6.4W		
NEIC	III	22 07 19 07.0–.00	37.70N	144.08E	21	6.5W,6.4W		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ42.00000°,λ-99.00000°. NP2:ϕ_s41.00000°,δ49.00000°,λ-82.00000°. $M_0$3.43000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=8.8km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.3km az=164.9.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=105.1.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c336; s145,c627;Duration: 3$\pm$9 Moment tensor: Scale 10^{18} Nm; M_{rr}-4.82$\pm$.02 $M_{\theta\theta}$1.86$\pm$.02; $M_{\phi\phi}$2.96$\pm$.02; $M_{r\theta}$0.14$\pm$.04; $M_{\theta\phi}$2.57$\pm$.01; $M_{\phi r}$1.61$\pm$.05; Best double couple: NP1:ϕ_s209.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s49.00000° ,δ38.00000°,λ-74.00000°. Principal axes: T 5.2190,Plg8.0000°,Azm308.0000° ; N -0.0580,Plg10.0000°,Azm216.0000°; P -5.1610,Plg77.0000°,Azm75.0000° $M_0$5.19000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=147.0. Felt [III] at Tokyo. Also felt at Misawa, Otawara, Yokosuka and Zama. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.20000×10^{19} Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.26 $M_{\theta\theta}$0.49 $M_{\phi\phi}$1.77 $M_{r\theta}$-0.71 $M_{\theta\phi}$2.43 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s55.00000°,δ54.00000°,λ-66.00000°. NP2:ϕ_s197.00000° ,δ42.00000°,λ-120.00000°. Principal axes: T 3.7100,Plg6.0000°,Azm128.0000° ; N -1.2400,Plg20.0000°,Azm220.0000°; P -2.4700,Plg69.0000°,Azm21.0000° $M_0$3.30000×10^{18}
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.43 $M_{\theta\theta}$2.11 $M_{\phi\phi}$3.32 $M_{r\theta}$2.15 $M_{\theta\phi}$2.17 $M_{\phi r}$-0.95 Best double couple: NP1:ϕ_s236.00000° ,δ51.00000°,λ-65.00000°. NP2:ϕ_s20.00000°,δ45.00000°,λ-117.00000°. Principal axes: T 5.0000,Plg3.0000°,Azm308.0000°; N 1.2300,Plg18.0000°,Azm40.0000° ; P -6.2300,Plg70.0000°,Azm209.0000° $M_0$5.70000×10^{18}
NEIC Event type se. Moment Tensor Solution. s94 Moment tensor: Scale 10^{18}Nm; M_{rr}-6.81 $M_{\theta\theta}$2.61 $M_{\phi\phi}$4.20 $M_{r\theta}$5.15 $M_{\theta\phi}$2.91 $M_{\phi r}$-3.55 Best double couple: NP1:ϕ_s246.00000° ,δ54.00000°,λ-52.00000°. NP2:ϕ_s12.00000°,δ50.00000°,λ-131.00000°. Principal axes: T 6.4000,Plg3.0000°,Azm310.0000°; N 4.0000,Plg30.0000°,Azm41.0000° ; P -10.4000,Plg60.0000°,Azm216.0000° $M_0$8.40000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 09 19 05.3–.32**	**37.37N–.02**	**141.79E–.03**	**28–1**	**6.0s,5.9b**	**2008**	**1-161**
NIED	III	22 09 19 00	37.40N	141.90E	44	6.1W,5.9b		**¶16342199**
BJI	III	22 09 19 00.7	37.25N	141.95E	20	6.1s,5.9b		
IDC	III	22 09 19 01.1–.34	37.33N	141.85E	0	6.0,6.0s		
ISCJB	III	22 09 19 04.5–.56	37.33N–.02	141.81E–.01	30–3	6.0s,5.8b		
MOS	III	22 09 19 04.4–.97	37.46N	141.92E	33	6.0b,5.9s		
JMA	III	22 09 19 05.2–.20	37.32N	141.91E	43–4	6.4,5.9s		
NEIC	III	22 09 19 05.0–.00	37.33N	141.86E	27	6.4,5.9s		
GCMT	III	22 09 19 06.2–.10	37.38N	141.78E	30–0	6.2W,5.9s		
NEIC	III	22 09 19 06.2–.07	37.33N	141.79E	31	6.1W,6.0W		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ176.00000°. NP2:ϕ_s281.00000°,δ88.00000°,λ59.00000°. $M_0$1.65000×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=160.3.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16 $M_{\theta\theta}$0.17 $M_{\phi\phi}$-0.01 $M_{r\theta}$-1.78 $M_{\theta\phi}$0.39 $M_{\phi r}$0.46 Best double couple: NP1:ϕ_s102.00000° ,δ89.00000°,λ-77.00000°. NP2:ϕ_s198.00000°,δ12.00000°,λ-173.00000°. Principal axes: T 1.8000,Plg42.0000°,Azm180.0000°; N 0.1700,Plg12.0000°,Azm282.0000° ; P -1.9700,Plg44.0000°,Azm24.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c271; s139,c431;Duration: 3$\pm$1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.20$\pm$.01 $M_{\theta\theta}$0.44$\pm$.01; $M_{\phi\phi}$-0.23$\pm$.01; $M_{r\theta}$-2.45$\pm$.05; $M_{\theta\phi}$0.65$\pm$.01; $M_{\phi r}$0.52$\pm$.02; Best double couple: NP1:ϕ_s101.00000°,δ88.00000°,λ-74.00000°. NP2:ϕ_s198.00000° ,δ16.00000°,λ-172.00000°. Principal axes: T 2.5990,Plg41.0000°,Azm176.0000° ; N 0.0330,Plg16.0000°,Azm280.0000°; P -2.6320,Plg45.0000°,Azm27.0000° $M_0$2.61600×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=141.0. Felt at Ayase, Chiba, Fujisawa, Ichinoseki, Narita, Otawara and Tokyo. Recorded [4 JMA] in Fukushima, Miyagi and Tochigi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s72 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.31 $M_{\theta\theta}$0.15 $M_{\phi\phi}$0.16 $M_{r\theta}$-1.23 $M_{\theta\phi}$0.45 $M_{\phi r}$0.29 Best double couple: NP1: ϕ_s199.00000°,δ20.00000°,λ-16.00000°. NP2:ϕ_s95.00000°,δ85.00000°,λ-70.00000°. Principal axes: T 1.2000,Plg37.0000°,Azm168.0000°; N 0.2900,Plg20.0000°,Azm274.0000° ; P -1.4900,Plg46.0000°,Azm25.0000° $M_0$1.40000×10^{18}

(229) Off east coast of Honshu

ISC	**III**	**22 09 44 30.0–.38**	**39.86N–.03**	**143.54E–.03**	**19–1**	**6.3s,5.9b**	**1948**	**1-158**
NIED	III	22 09 44 00	39.80N	143.80E	11	6.3W,5.9b		**¶17197975**
JMA	III	22 09 44 25.4–.50	39.92N	143.66E	0–4	6.5,5.9b		
BJI	III	22 09 44 25.0	39.85N	143.55E	10	6.6s,6.5		
ISCJB	III	22 09 44 25.9–.54	39.81N–.01	143.56E–.02	5–3	6.3s,5.9b		
IDC	III	22 09 44 26.9–.33	39.86N	143.56E	0	6.2,6.2		
GCMT	III	22 09 44 28.4–.10	39.84N	143.81E	13–0	6.3W,6.2		
NEIC	III	22 09 44 29.0–.00	40.26N	143.84E	15	6.3W,6.2		
MOS	III	22 09 44 29.2–.92	39.97N	143.49E	22	6.4s,6.1b		
NEIC	III	22 09 44 29.3–.08	39.85N	143.44E	13	6.4W,6.3		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ42.00000°,λ36.00000°. NP2:ϕ_s38.00000°,δ67.00000°,λ126.00000°. $M_0$3.01000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.7km az=151.3.
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=91.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c293; s138,c563;Duration: 3$\pm$5 Moment tensor: Scale 10^{18} Nm; M_{rr}2.14$\pm$.02 $M_{\theta\theta}$0.05$\pm$.01; $M_{\phi\phi}$-2.20$\pm$.02; $M_{r\theta}$1.12$\pm$.04; $M_{\theta\phi}$-0.57$\pm$.01; $M_{\phi r}$2.86$\pm$.07; Best double couple: NP1:ϕ_s20.00000°,δ72.00000°,λ94.00000°. NP2:ϕ_s186.00000° ,δ18.00000°,λ77.00000°. Principal axes: T 3.7190,Plg63.0000°,Azm297.0000° ; N 0.1610,Plg4.0000°,Azm199.0000°; P -3.8850,Plg27.0000°,Azm107.0000° $M_0$3.80200×10^{18}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}1.50 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-1.80 $M_{r\theta}$2.20 $M_{\theta\phi}$0.00 $M_{\phi r}$4.70 Best double couple: NP1:ϕ_s23.00000°,δ82.00000° ,λ99.00000°. NP2:ϕ_s156.00000°,δ12.00000°,λ43.00000°. Principal axes: T 5.5000,Plg52.0000°,Azm303.0000°; N 0.0000,Plg8.0000°,Azm202.0000° ; P -5.5000,Plg36.0000°,Azm105.0000° $M_0$5.00000×10^{18}
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=101.9.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=143.0. Felt at Ichinoseki, Kawasaki, Misawa, Otawara and Tokyo. Recorded [4 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s43 Moment tensor: Scale 10^{18}Nm; M_{rr}2.45 $M_{\theta\theta}$-0.38 $M_{\phi\phi}$-2.07 $M_{r\theta}$0.66 $M_{\theta\phi}$-0.35 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ87.00000°. NP2: ϕ_s13.00000°,δ70.00000°,λ91.00000°. Principal axes: T 3.6900,Plg65.0000°,Azm286.0000° ; N -0.3200,Plg1.0000°,Azm193.0000°; P -3.3700,Plg25.0000°,Azm102.0000° $M_0$3.50000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 10 23 13.7–.80**	**40.27N–.04**	**142.54E–.04**	**21–3**	**4.8b**	**286**	**1-146**
IDC	III	22 10 23 09.9–.53	40.25N	142.51E	0	5.5,5.5s		**¶16342428**
JMA	III	22 10 23 12.1–.20	40.25N	142.57E	26–2	4.8,5.5s		
ISCJB	III	22 10 23 12.7–.57	40.31N–.03	142.48E–.03	20–4	5.3s,4.7b		
MOS	III	22 10 23 14.3–.95	40.40N	142.47E	33	5.0b,4.7b		
BJI	III	22 10 23 15.1	40.34N	142.61E	49	5.4s,5.1		
NEIC	III	22 10 23 16.8–.56	40.32N	142.41E	39–5	4.8b,5.1		

ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=12.9km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=141.4.
MOS Error ellipse: s-maj=10.3km s-min=5.8km az=77.9.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=145.0.

(229) Off east coast of Honshu

ISC	**III**	**22 10 56 46.4–.39**	**37.24N–.04**	**141.96E–.04**	**36–1**	**5.2s,4.9b**	**678**	**1-155**
NIED	III	22 10 56 00	37.30N	141.90E	29	4.7W,4.9b		**¶16342429**
BJI	III	22 10 56 43.6	37.06N	142.05E	40	5.6b,5.4s		
JMA	III	22 10 56 45.7–.20	37.29N	141.87E	33–4	4.8,5.4s		
ISCJB	III	22 10 56 45.6–.46	37.24N–.02	141.87E–.03	40–4	5.2s,4.8b		
IDC	III	22 10 56 47.2–1.8	37.26N	141.93E	45–16	4.7,4.6		
MOS	III	22 10 56 47.5–.75	37.60N	141.83E	43	5.1b,4.6		
NEIC	III	22 10 56 49.3–.47	37.28N	141.81E	59–4	4.8b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ33.00000°,λ-110.00000°. NP2:ϕ_s107.00000°,δ59.00000°,λ-77.00000°. $M_0$1.11000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=148.4.
IDC Error ellipse: s-maj=11.7km s-min=10.6km az=114.0.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=98.1.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=143.0.

(229) Off east coast of Honshu

ISC	**III**	**22 11 21 37.4–.44**	**39.73N–.03**	**143.31E–.03**	**23–2**	**5.5b,5.4s**	**1130**	**1-165**
NIED	III	22 11 21 00	39.80N	143.40E	20	5.4W,5.4s		**¶16342204**
IDC	III	22 11 21 33.7–.46	39.70N	143.33E	0	5.3,5.3s		
JMA	III	22 11 21 35.1–.30	39.76N	143.39E	17–5	5.6,5.3s		
ISCJB	III	22 11 21 36.1–.68	39.72N–.02	143.18E–.02	21–4	5.4s,5.3b		
BJI	III	22 11 21 36.2	39.77N	143.09E	25	5.9b,5.7s		
MOS	III	22 11 21 38.6–.90	39.91N	143.14E	33	5.7b,5.4s		
NEIC	III	22 11 21 39.3–1.1	39.73N	143.11E	31–7	5.5b,5.3s		
GCMT	III	22 11 21 39.3–.30	39.90N	143.34E	26–1	5.6W,5.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ23.00000°,λ52.00000°. NP2:ϕ_s34.00000°,δ72.00000°,λ105.00000°. $M_0$1.60000×10^{17}
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=153.5.
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=102.6.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=147.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s101,c166; Duration: 1$\pm$5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.91$\pm$.11 $M_{\theta\theta}$-0.25$\pm$.06; $M_{\phi\phi}$-1.67$\pm$.07; $M_{r\theta}$1.01$\pm$.14; $M_{\theta\phi}$-0.31$\pm$.03; $M_{\phi r}$2.43$\pm$.18; Best double couple: NP1:ϕ_s20.00000°,δ73.00000° ,λ94.00000°. NP2:ϕ_s186.00000°,δ18.00000°,λ76.00000°. Principal axes: T 3.3060,Plg62.0000°,Azm297.0000°; N -0.2190,Plg4.0000°,Azm199.0000° ; P -3.0920,Plg28.0000°,Azm107.0000° $M_0$3.19900×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**22 12 01 21.6–.51**	**36.89N–.03**	**143.25E–.03**	**6–2**	**5.5b,5.5s**	**1245**	**2-164**
NIED	III	22 12 01 00	36.80N	143.20E	5	5.5W,5.5s		**¶600562606**
BJI	III	22 12 01 19.5	37.03N	143.15E	5	5.8s,5.7		
IDC	III	22 12 01 19.7–.34	36.80N	143.33E	0	5.2,5.2s		
ISCJB	III	22 12 01 21.0–.09	36.92N–.02	143.26E–.01	10	5.5s,5.4b		
GCMT	III	22 12 01 22.4–.10	36.83N	143.29E	12	5.6W,5.4b		
JMA	III	22 12 01 22.0–.20	36.84N	143.24E	56	5.6,5.4b		
NEIC	III	22 12 01 22.4–.13	36.87N	143.19E	10	5.6b,5.4s		
MOS	III	22 12 01 22.7–1.1	37.05N	143.17E	21	5.7b,5.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ37.00000°,λ-103.00000°. NP2:ϕ_s225.00000°,δ54.00000°,λ-80.00000°. $M_0$2.24000×10^{17}
IDC Error ellipse: s-maj=11.0km s-min=8.9km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.6km az=165.3.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s75,c127; s128,c289;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.80±.04 $M_{\theta\theta}$1.12±.04; $M_{\phi\phi}$1.68±.04; $M_{r\theta}$-0.04±.13; $M_{\theta\phi}$1.30±.03; $M_{\phi r}$-0.10±.14; Best double couple: NP1:ϕ_s38.00000°,δ46.00000°,λ-91.00000°. NP2:ϕ_s220.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 2.7320,Plg1.0000°,Azm129.0000°; N 0.0700,Plg1.0000°,Azm39.0000°; P -2.8020,Plg89.0000°,Azm280.0000° $M_0$2.76700×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=150.0.

MOS Error ellipse: s-maj=6.3km s-min=4.3km az=99.5.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 12 04 07.0–.48**	**36.24N–.03**	**141.53E–.04**	**32–3**	**5.7s,5.4b**	**679**	**1-155**
NIED	III	22 12 04 00	36.20N	141.60E	23	5.6W,5.4b		**¶16342432**
IDC	III	22 12 04 02.2–.39	36.34N	141.52E	0	5.4s,5.4		
BJI	III	22 12 04 03.9	36.07N	141.50E	30	6.0b,5.7s		
ISCJB	III	22 12 04 05.7–.72	36.21N–.02	141.47E–.02	33–5	5.7s,5.4b		
JMA	III	22 12 04 05.0–.20	36.23N	141.63E	48–4	5.9,5.4b		
MOS	III	22 12 04 06.3–.92	36.39N	141.52E	33	5.7b,5.4b		
NEIC	III	22 12 04 09.0–.59	36.29N	141.40E	45–5	5.4b,5.4b		
GCMT	III	22 12 04 09.0–.20	36.12N	141.79E	34–0	5.7W,5.4b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ21.00000°,λ127.00000°. NP2:ϕ_s17.00000°,δ74.00000°,λ77.00000°. $M_0$2.52000×10^{17}

IDC Error ellipse: s-maj=12.1km s-min=9.7km az=87.0.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=136.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=9.0km s-min=6.7km az=109.9.

NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=136.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c94; s109,c186; Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.42±.12 $M_{\theta\theta}$-1.27±.08; $M_{\phi\phi}$-2.15±.08; $M_{r\theta}$1.17±.10; $M_{\theta\phi}$-1.12±.04; $M_{\phi r}$1.96±.09; Best double couple: NP1:ϕ_s32.00000°,δ63.00000°,λ89.00000°. NP2:ϕ_s216.00000°,δ27.00000°,λ93.00000°. Principal axes: T 4.1580,Plg72.0000°,Azm299.0000°; N -0.5100,Plg1.0000°,Azm33.0000°; P -3.6480,Plg18.0000°,Azm123.0000° $M_0$3.90300×10^{17}

(410) Southern Mid-Atlantic Ridge

ISC	**III**	**22 13 31 28.7–.20**	**33.12S–.04**	**15.94W–.04**	**10**	**6.0b,5.9s**	**1668**	**5-160**
MOS	III	22 13 31 26.8–.89	33.05S	15.99W	10	6.1b,5.9s		**¶16342438**
ISCJB	III	22 13 31 27.5–.14	33.06S–.03	16.09W–.03	10	5.9s,5.9b		
NEIC	III	22 13 31 27.6–.10	33.10S	15.98W	5	6.2,6.1b		
IDC	III	22 13 31 27.4–.30	33.10S	15.98W	0	5.7s,5.7		
GCMT	III	22 13 31 28.5–.10	33.11S	15.74W	12	5.9W,5.7		
NEIC	III	22 13 31 28.0–.00	33.09S	15.98W	12	5.9W,5.7		
BJI	III	22 13 31 30.0	32.95S	16.10W	20	6.3s,6.1b		

ISC Event type se.

MOS Error ellipse: s-maj=13.9km s-min=12.1km az=90.6.

ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=2.8km az=158.3.

NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=163.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s250.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s70.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm340.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm160.0000°

IDC Error ellipse: s-maj=11.8km s-min=8.6km az=166.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c191; s140,c438;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.93±.01 $M_{\theta\theta}$-0.71±.01; $M_{\phi\phi}$-0.22±.01; $M_{r\theta}$-0.22±.02; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$-0.09±.02; Best double couple: NP1:ϕ_s245.00000°,δ52.00000°,λ91.00000°. NP2:ϕ_s65.00000°,δ38.00000°,λ89.00000°. Principal axes: T 0.9630,Plg83.0000°,Azm158.0000°; N -0.0870,Plg0.0000°,Azm65.0000°; P -0.8760,Plg7.0000°,Azm335.0000° $M_0$0.92000×10^{18}

NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}5.87 $M_{\theta\theta}$-5.17 $M_{\phi\phi}$-0.70 $M_{r\theta}$1.36 $M_{\theta\phi}$-2.26 $M_{\phi r}$1.73 Best double couple: NP1:ϕ_s58.00000°,δ55.00000°,λ78.00000°. NP2:ϕ_s257.00000°,δ37.00000°,λ106.00000°. Principal axes: T 6.3500,Plg76.0000°,Azm288.0000°; N 0.0600,Plg9.0000°,Azm64.0000°; P -6.4100,Plg8.0000°,Azm155.0000° $M_0$6.40000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 13 50 53.5–.44**	**35.82N–.03**	**141.64E–.03**	**30–2**	**5.8b,5.7s**	**1696**	**1-158**
NIED	III	22 13 50 00	35.90N	141.80E	17	5.7W,5.7s		**¶602683002**
BJI	III	22 13 50 46.5	35.85N	141.82E	10	5.9s,5.7		
JMA	III	22 13 50 49.8–.30	35.86N	141.78E	22–3	6.0,5.7		
NEIC	III	22 13 50 50.0–.00	35.59N	141.73E	15	6.0,5.7		
MOS	III	22 13 50 50.8–.99	35.84N	141.65E	25	6.1b,5.8s		
GCMT	III	22 13 50 51.1–.10	35.77N	141.66E	19–0	5.8W,5.8s		
NEIC	III	22 13 50 51.9–.08	35.80N	141.55E	20	5.9W,5.8		
ISCJB	III	22 13 50 51.0–.51	35.82N–.02	141.64E–.02	24–3	5.7b,5.7s		
IDC	III	22 13 50 55.9–1.8	35.84N	141.58E	48–16	5.7,5.7s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ41.00000°,λ28.00000°. NP2:ϕ_s51.00000°,δ72.00000°,λ128.00000°. $M_0$4.21000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}3.20 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-3.30 $M_{r\theta}$4.80 $M_{\theta\phi}$-1.30 $M_{\phi r}$5.20 Best double couple: NP1:ϕ_s40.00000°,δ77.00000°,λ100.00000°. NP2:ϕ_s177.00000°,δ16.00000°,λ48.00000°. Principal axes: T 7.9000,Plg55.0000°,Azm324.0000°; N -0.1000,Plg10.0000°,Azm218.0000°; P -7.8000,Plg32.0000°,Azm121.0000° $M_0$8.00000×10^{17}

MOS Error ellipse: s-maj=7.2km s-min=4.6km az=112.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c203; s130,c345;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}4.57±.08 $M_{\theta\theta}$0.18±.05; $M_{\phi\phi}$-4.75±.06; $M_{r\theta}$4.13±.16; $M_{\theta\phi}$-1.63±.04; $M_{\phi r}$1.88±.13; Best double couple: NP1:ϕ_s45.00000°,δ67.00000°,λ116.00000°. NP2:ϕ_s174.00000°,δ34.00000°,λ45.00000°. Principal axes: T 7.1050,Plg60.0000°,Azm352.0000°; N -0.8830,Plg23.0000°,Azm214.0000°; P -6.2220,Plg18.0000°,Azm116.0000° $M_0$6.66400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=139.0. Recorded [3 JMA] in Chiba and Ibaraki. Two events about 2 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}3.38 $M_{\theta\theta}$1.43 $M_{\phi\phi}$-4.81 $M_{r\theta}$2.36 $M_{\theta\phi}$0.71 $M_{\phi r}$2.04 Best double couple: NP1:ϕ_s144.00000°,δ42.00000°,λ39.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ125.00000°. Principal axes: T 5.3900,Plg56.0000°,Azm339.0000°; N -0.1000,Plg31.0000°,Azm187.0000°; P -5.2900,Plg13.0000°,Azm89.0000° $M_0$5.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ33.00000°,λ152.00000°. NP2: ϕ_s115.00000°,δ75.00000°,λ60.00000°. Principal axes: T Plg51.0000°,Azm351.0000°; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm228.0000°

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=157.0.

IDC Error ellipse: s-maj=10.5km s-min=7.1km az=87.0.

(410) Southern Mid-Atlantic Ridge

ISC	**III**	**22 14 45 19.0–.34**	**33.22S–.07**	**15.87W–.07**	**10**	**4.9b**	**110**	**5-152**
ISCJB	III	22 14 45 17.4–.29	33.26S–.05	15.85W–.07	10	5.6s,4.9b		**¶16350009**
IDC	III	22 14 45 17.5–.47	33.17S	15.87W	0	4.8,4.7		
NEIC	III	22 14 45 19.1–.20	33.18S	15.90W	10	5.1b,4.7		
BJI	III	22 14 45 19.3	33.10S	15.90W	10	5.9s,5.7b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=150.5.

IDC Error ellipse: s-maj=16.6km s-min=14.5km az=174.0.

NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.4km az=173.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 03 47.4–.28**	**35.86N–.03**	**141.63E–.03**	**21–2**	**6.0b,5.6s**	**1734**	**1-161**
NIED	III	22 15 03 00	35.90N	141.90E	11	5.6W,5.6s		**¶602443795**
IDC	III	22 15 03 44.0–.33	35.80N	141.67E	0	5.6,5.5		
BJI	III	22 15 03 43.4	35.84N	141.54E	10	5.8s,5.7		
ISCJB	III	22 15 03 44.5–.55	35.81N–.02	141.65E–.01	12–3	5.9b,5.6s		
JMA	III	22 15 03 46.2–.40	35.88N	141.76E	23–4	5.8,5.6s		
NEIC	III	22 15 03 46.8–.07	35.79N	141.57E	19	6.1b,5.9		
MOS	III	22 15 03 46.9–.81	35.79N	141.68E	33	6.2b,5.8s		
GCMT	III	22 15 03 49.2–.10	35.88N	141.56E	15–0	5.6W,5.8s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ45.00000°,λ104.00000°. NP2:ϕ_s85.00000°,δ47.00000°,λ77.00000°. $M_0$3.01000×10^{17}

IDC Error ellipse: s-maj=10.1km s-min=9.3km az=109.0.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=158.5.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=146.0. Recorded [3 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.

MOS Error ellipse: s-maj=6.8km s-min=4.5km az=115.7.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s89,c148; s137,c323;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.37±.06 $M_{\theta\theta}$-3.18±.04; $M_{\phi\phi}$-0.18±.04; $M_{r\theta}$-0.64±.12; $M_{\theta\phi}$0.40±.03; $M_{\phi r}$-1.13±.15; Best double couple: NP1:ϕ_s261.00000°,δ52.00000°,λ68.00000°. NP2:ϕ_s113.00000°,δ43.00000°,λ115.00000°. Principal axes: T 3.7740,Plg72.0000°,Azm110.0000°; N -0.5010,Plg17.0000°,Azm274.0000°; P -3.2710,Plg4.0000°,Azm6.0000° $M_0$3.52300×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 19 28.2–.43**	**35.73N–.05**	**141.71E–.06**	**25**	**4.5b**	**104**	**1-147**
IDC	III	22 15 19 24.5–.50	35.76N	141.77E	0	4.4,4.3		**¶600562847**
BJI	III	22 15 19 25.4	35.69N	141.42E	8	5.6b,5.3s		
ISCJB	III	22 15 19 26.2–.26	35.72N–.03	141.80E–.04	25	5.0s,4.5b		
JMA	III	22 15 19 27.5–.20	35.83N	141.80E	45–3	4.4,4.5b		
NEIC	III	22 15 19 29.4–.76	35.71N	141.75E	35–7	4.7b,4.5b		

ISC Event type se.

IDC Error ellipse: s-maj=13.9km s-min=11.7km az=100.0.

ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=138.2.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=77.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 49 27.3–.49**	**39.21N–.03**	**142.45E–.03**	**30–3**	**5.3b,4.9s**	**1145**	**1-159**
NIED	III	22 15 49 00	39.20N	142.40E	35	5.2W,4.9s		**¶17198035**
BJI	III	22 15 49 21.7	39.11N	142.54E	18	5.4b,5.1b		
ISCJB	III	22 15 49 26.3–.59	39.20N–.02	142.36E–.02	31–4	5.3b,4.8s		
MOS	III	22 15 49 26.2–.89	39.24N	142.40E	33	5.5b,4.8s		
JMA	III	22 15 49 27.4–.10	39.22N	142.40E	34–1	5.2,4.8s		
GCMT	III	22 15 49 27.5–.30	39.17N	142.27E	38–1	5.1W,4.8s		
NEIC	III	22 15 49 27.5–.55	39.20N	142.32E	28–3	5.4b,4.8s		
IDC	III	22 15 49 28.5–.62	39.20N	142.41E	37–5	4.9,4.9		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ17.00000°,λ-148.00000°. NP2:ϕ_s174.00000°,δ81.00000°,λ-76.00000°. $M_0$6.75000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=155.1.

MOS Error ellipse: s-maj=6.1km s-min=4.1km az=98.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c50; s88,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.85±.28 $M_{\theta\theta}$1.51±.18; $M_{\phi\phi}$2.34±.18; $M_{r\theta}$0.76±.17; $M_{\theta\phi}$-2.18±.10; $M_{\phi r}$4.99±.22; Best double couple: NP1:ϕ_s173.00000°,δ72.00000°,λ-68.00000°. NP2:ϕ_s301.00000°,δ28.00000°,λ-139.00000°. Principal axes: T 5.7110,Plg24.0000°,Azm247.0000°; N 1.2750,Plg21.0000°,Azm346.0000°; P -6.9860,Plg57.0000°,Azm112.0000° $M_0$6.34900×10^{16}

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=143.0. Recorded [4 JMA] in Miyagi.

IDC Error ellipse: s-maj=10.7km s-min=9.5km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 16 05 49.2–.58**	**35.82N–.03**	**141.67E–.04**	**28–3**	**5.2b,4.8s**	**676**	**1-154**
NIED	III	22 16 05 00	35.80N	141.80E	20	5.0W,4.8s		**¶16342448**
IDC	III	22 16 05 44.6–.39	35.71N	141.73E	0	5.1,5.0		
MOS	III	22 16 05 47.8–.84	35.76N	141.71E	33	5.5b,5.0		
JMA	III	22 16 05 48.3–.10	35.81N	141.75E	52–2	5.1,5.0		
BJI	III	22 16 05 48.6	35.88N	141.68E	45	5.3b,4.9b		
ISCJB	III	22 16 05 48.2–.82	35.72N–.02	141.64E–.02	32–5	5.2b,4.8s		
NEIC	III	22 16 05 51.3–.45	35.75N	141.60E	46–4	5.2b,4.8s		
GCMT	III	22 16 05 51.3–.50	35.48N	141.71E	22–1	5.1W,4.8s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ39.00000°,λ-93.00000°. NP2:ϕ_s172.00000°,δ51.00000°,λ-88.00000°. $M_0$3.13000×10^{16}

IDC Error ellipse: s-maj=12.3km s-min=11.0km az=94.0.

MOS Error ellipse: s-maj=7.8km s-min=5.0km az=121.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=147.9.

NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=137.0.

GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c22; s77,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.33±.35 $M_{\theta\theta}$0.62±.21; $M_{\phi\phi}$3.71±.21; $M_{r\theta}$-3.52±.44; $M_{\theta\phi}$-0.40±.15; $M_{\phi r}$0.29±.29; Best double couple: NP1:ϕ_s142.00000°,δ59.00000°,λ-120.00000°. NP2:ϕ_s11.00000°,δ42.00000°,λ-50.00000°. Principal axes: T 3.8790,Plg9.0000°,Azm253.0000°; N 2.2780,Plg26.0000°,Azm159.0000°; P -6.1590,Plg63.0000°,Azm1.0000° $M_0$5.01900×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 16 12 09.0–.39**	**35.75N–.03**	**141.65E–.03**	**29–2**	**5.5b,5.2s**	**1337**	**1-161**
NIED	III	22 16 12 00	35.80N	142.00E	17	5.2W,5.2s		**¶602682762**
IDC	III	22 16 12 04.7–.37	35.78N	141.70E	0	5.1,5.1		
ISCJB	III	22 16 12 06.8–.61	35.73N–.02	141.68E–.02	24–4	5.4b,5.2s		
BJI	III	22 16 12 06.6	35.74N	141.42E	22	5.5b,5.3s		
JMA	III	22 16 12 07.2–.20	35.81N	141.84E	35–3	5.4,5.3s		
MOS	III	22 16 12 07.9–1.2	35.90N	141.81E	33	5.8b,5.3s		
GCMT	III	22 16 12 09.2–.20	35.76N	141.59E	19–0	5.3W,5.3s		
NEIC	III	22 16 12 09.2–1.1	35.68N	141.64E	31–7	5.6b,5.2s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ38.00000°,λ-104.00000°. NP2:ϕ_s232.00000°,δ54.00000°,λ-79.00000°. $M_0$7.17000×10^{16}

IDC Error ellipse: s-maj=11.9km s-min=10.7km az=79.0.

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=156.3.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=8.1km s-min=5.4km az=104.9.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c115; s114,c207; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$0.70±.02; $M_{\phi\phi}$0.37±.02; $M_{r\theta}$-0.04±.04; $M_{\theta\phi}$0.26±.01; $M_{\phi r}$0.47±.04; Best double couple: NP1:ϕ_s223.00000°,δ54.00000°,λ-110.00000°. NP2:ϕ_s74.00000°,δ41.00000°,λ-65.00000°. Principal axes: T 0.8670,Plg7.0000°,Azm327.0000°; N 0.3560,Plg16.0000°,Azm235.0000°; P -1.2270,Plg73.0000°,Azm79.0000° $M_0$1.04700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 22 12 31.7–.44**	**37.10N–.02**	**140.77E–.03**	**20–1**	**5.5b,5.4s**	**1494**	**0-157**
NIED	III	22 22 12 00	37.10N	140.80E	5	5.7W,5.4s		**¶602707316**
BJI	III	22 22 12 25.0	37.07N	141.14E	10	5.9s,5.7		
JMA	III	22 22 12 28.7	37.08N	140.79E	8–1	6.0,5.7		
ISCJB	III	22 22 12 28.4–.39	37.07N–.02	140.83E–.02	7–2	5.5s,5.4b		
IDC	III	22 22 12 28.1–.37	37.11N	140.76E	0	5.4s,5.4		
NEIC	III	22 22 12 31.8–.71	37.07N	140.64E	18–4	5.5W,5.5b		
GCMT	III	22 22 12 31.8–.10	37.09N	140.76E	12	5.7W,5.5b		
MOS	III	22 22 12 32.1–1.1	37.23N	140.81E	33	5.7b,5.4s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ27.00000°,λ-82.00000°. NP2:ϕ_s191.00000°,δ64.00000°,λ-94.00000°. $M_0$4.26000×10^{17}

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s184.00000°,δ77.00000°,λ-149.00000°. NP2:ϕ_s86.00000°,δ60.00000°,λ-15.00000°. Principal axes: T Plg11.0000°,Azm312.0000°; N Plg57.0000°,Azm205.0000°; P Plg31.0000°,Azm49.0000°

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=152.0.

IDC Error ellipse: s-maj=11.5km s-min=10.1km az=91.0.

NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=141.0. Recorded [5U JMA] in Fukushima. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.68 $M_{\theta\theta}$0.34 $M_{\phi\phi}$1.34 $M_{r\theta}$-0.84 $M_{\theta\phi}$0.93 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s182.00000°,δ61.00000°,λ-12.00000°. NP2:ϕ_s55.00000°,δ43.00000°,λ-46.00000°. Principal axes: T 1.9900,Plg10.0000°,Azm295.0000°; N 0.5000,Plg28.0000°,Azm199.0000°; P -2.4900,Plg60.0000°,Azm43.0000° $M_0$2.30000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c180; s138,c354;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.65±.03 $M_{\theta\theta}$0.14±.03; $M_{\phi\phi}$3.51±.03; $M_{r\theta}$0.71±.10; $M_{\theta\phi}$1.14±.03; $M_{\phi r}$1.72±.10; Best double couple: NP1:ϕ_s200.00000°,δ58.00000°,λ-87.00000°. NP2:ϕ_s14.00000°,δ32.00000°,λ-94.00000°. Principal axes: T 4.2910,Plg13.0000°,Azm288.0000°; N -0.2030,Plg2.0000°,Azm18.0000°

; P -4.0890,Plg77.0000°,Azm118.0000° $M_0$4.19000×10^{17}
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=95.3.

(227) Eastern Honshu

ISC	**III**	**22 22 13 52.5–.93**	**37.04N–.02**	**140.77E–.04**	**8–5**	**5.3s,5.3b**	**228**	**0-147**
NIED	III	22 22 13 00	37.00N	140.80E	5	5.2W,5.3b	**¶602707312**	
IDC	III	22 22 13 50.8–.57	36.96N	140.71E	0	5.2s,5.2		
ISCJB	III	22 22 13 52.8–.52	37.01N–.02	140.81E–.04	22–3	5.4s,5.2b		
JMA	III	22 22 13 52.7–.10	37.04N	140.77E	1–2	5.8,5.2b		
MOS	III	22 22 13 53.6–.77	36.96N	140.79E	33	5.4b,5.2b		
NEIC	III	22 22 13 57.2–.82	37.01N	140.68E	41–7	5.5b,5.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ27.00000°,λ-110.00000°. NP2:ϕ_s179.00000°,δ65.00000°,λ-80.00000°. $M_0$7.01000×10^{16}
IDC Error ellipse: s-maj=16.3km s-min=14.4km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.3km az=12.9.
MOS Error ellipse: s-maj=14.2km s-min=10.0km az=104.2.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.2km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 22 34 56.5–.71**	**37.12N–.03**	**140.76E–.04**	**12–4**	**5.5s,5.5b**	**1245**	**0-161**
NIED	III	22 22 34 00	37.10N	140.80E	5	5.0W,5.5b	**¶16354542**	
BJI	III	22 22 34 49.0	36.93N	141.38E	10	5.6b,5.4s		
IDC	III	22 22 34 54.6–.34	37.08N	140.64E	0	5.2,5.1		
ISCJB	III	22 22 34 55.2–.82	37.11N–.02	140.65E–.02	10–5	5.4s,5.4b		
JMA	III	22 22 34 56.0	37.10N	140.80E	7–1	5.5,5.4b		
MOS	III	22 22 34 58.3–1.1	37.17N	140.67E	33	5.6b,5.4b		
NEIC	III	22 22 35 00.7–.54	37.11N	140.58E	38–4	5.5b,5.4b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ34.00000°,λ-86.00000°. NP2:ϕ_s164.00000°,δ57.00000°,λ-93.00000°. $M_0$3.40000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.9km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=145.9.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s197.00000° ,δ65.00000°,λ-83.00000°. NP2:ϕ_s1.00000°,δ26.00000°,λ-105.00000°. Principal axes: T Plg20.0000°,Azm282.0000°; N Plg7.0000°,Azm14.0000°; P Plg69.0000°,Azm122.0000°
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=101.7.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.1km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 22 36 31.7–.67**	**37.10N–.03**	**140.74E–.03**	**12–3**	**5.5b,5.2s**	**1180**	**0-165**
NIED	III	22 22 36 00	37.10N	140.80E	5	5.4W,5.2s	**¶602443828**	
BJI	III	22 22 36 25.8	36.96N	141.15E	10	5.8b,5.4s		
IDC	III	22 22 36 29.9–.39	37.13N	140.62E	0	5.2,5.1		
ISCJB	III	22 22 36 31.0–.90	37.07N–.02	140.67E–.02	15–5	5.4b,5.1s		
JMA	III	22 22 36 31.3	37.06N	140.77E	7–1	5.8,5.1s		
GCMT	III	22 22 36 32.8–.10	37.06N	140.74E	15–0	5.4W,5.1s		
NEIC	III	22 22 36 32.8–.60	37.10N	140.56E	16–3	5.5b,5.2W		
MOS	III	22 22 36 33.2–1.2	37.23N	140.79E	33	5.6b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ35.00000°,λ-90.00000°. NP2:ϕ_s179.00000°,δ55.00000°,λ-90.00000°. $M_0$1.32000×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=11.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=149.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c133; s130,c246; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.74±.03 $M_{\theta\theta}$0.11±.02; $M_{\phi\phi}$1.63±.03; $M_{r\theta}$0.01±.07; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.17±.06; Best double couple: NP1:ϕ_s181.00000°,δ48.00000° ,λ-90.00000°. NP2:ϕ_s0.00000°,δ42.00000°,λ-90.00000°. Principal axes: T 1.6390,Plg3.0000° ,Azm271.0000°; N 0.1110,Plg0.0000°,Azm1.0000°; P -1.7480,Plg87.0000°,Azm97.0000° $M_0$1.69400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=143.0. Recorded [5U JMA] in Fukushima. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.10 $M_{\theta\theta}$-1.31 $M_{\phi\phi}$5.41 $M_{r\theta}$-5.84 $M_{\theta\phi}$3.56 $M_{\phi r}$-1.77 Best double couple: NP1:ϕ_s57.00000° ,δ72.00000°,λ-56.00000°. NP2:ϕ_s171.00000°,δ38.00000°,λ-15.00000°. Principal axes: T 8.4200,Plg20.0000°,Azm122.0000°; N 0.3500,Plg32.0000°,Azm226.0000° ; P -8.7600,Plg50.0000°,Azm6.0000° $M_0$8.60000×10^{16}
MOS Error ellipse: s-maj=8.1km s-min=6.4km az=90.0.

(197) Near north coast of Irian Jaya

ISC	**III**	**23 14 06 29.8–.33**	**2.08S–.04**	**139.11E–.05**	**29**	**4.8b,3.9s**	**179**	**1-151**
IDC	III	23 14 06 25.1–.44	2.03S	139.14E	0	4.7L,4.6	**¶16449030**	
ISCJB	III	23 14 06 27.9–.21	2.05S–.03	139.12E–.03	29	4.7b,4.1s		
BJI	III	23 14 06 28.9	1.91S	139.38E	42	5.3b,5.0s		
NEIC	III	23 14 06 28.3–1.7	2.04S	139.08E	20–12	4.9b,5.0s		
DJA	III	23 14 06 29.7–1.1	2S–5.0	139E–4.0	26–8	5.7b,5.2		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(179) South of Kermadec Islands

ISC	**III**	**23 23 01 15.2–.74**	**32.34S–.05**	**179.43W–.08**	**23–4**	**5.0b,4.2s**	**154**	**3-164**
BJI	III	23 23 01 15.0	32.40S	179.60W	35	5.6b,5.4s	**¶16462144**	
ISCJB	III	23 23 01 15.5–.31	32.43S–.03	179.63W–.06	29	5.0b,4.4s		
NEIC	III	23 23 01 17.0–.89	32.40S	179.56W	36–7	5.1b,4.4s		
IDC	III	23 23 01 16.5–4.4	32.29S	179.50W	33–31	4.6,4.6		
GCMT	III	23 23 01 17.0–.20	32.26S	179.53W	12	5.2W,4.6		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.3km az=13.4.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.0km az=121.0.
IDC Error ellipse: s-maj=18.5km s-min=16.1km az=116.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c92; s90,c157; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.28±.13 $M_{\theta\theta}$0.14±.15; $M_{\phi\phi}$6.13±.11; $M_{r\theta}$-0.06±.41; $M_{\theta\phi}$3.00±.10; $M_{\phi r}$-0.80±.35; Best double couple: NP1:ϕ_s20.00000°,δ48.00000° ,λ-94.00000°. NP2:ϕ_s205.00000°,δ42.00000°,λ-86.00000°. Principal axes: T 7.4170,Plg3.0000°,Azm112.0000°; N -1.0910,Plg3.0000°,Azm22.0000° ; P -6.3340,Plg86.0000°,Azm252.0000° $M_0$6.87600×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**24 08 20 59.6–.31**	**39.11N–.02**	**142.29E–.03**	**27–1**	**5.8s,5.6b**	**1787**	**1-159**
NIED	III	24 08 20 00	39.10N	142.40E	35	5.9W,5.6b	**¶602442647**	
JMA	III	24 08 20 58.6–.10	39.08N	142.36E	34–1	6.2,5.6b		
ISCJB	III	24 08 20 59.1–.42	39.09N–.02	142.15E–.02	32–2	5.8s,5.5b		
MOS	III	24 08 20 59.8–.81	39.26N	142.13E	35	5.9b,5.8s		
GCMT	III	24 08 21 00.1–.10	39.08N	142.34E	37–0	5.9W,5.8s		
NEIC	III	24 08 21 00.1–.08	39.08N	142.08E	27	5.8W,5.8W		
BJI	III	24 08 21 00.0	39.20N	142.16E	30	6.1s,6.0		
IDC	III	24 08 21 01.9–1.6	39.08N	142.21E	45–14	5.7,5.7s		
NEIC	III	24 08 21 01.0–.00	39.12N	142.35E	40	5.7,5.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ22.00000°,λ52.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ104.00000°. $M_0$8.42000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=158.9.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=103.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c255; s133,c388;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.58±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-0.64±.01; $M_{r\theta}$0.31±.01; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$0.69±.01; Best double couple: NP1:ϕ_s20.00000° ,δ71.00000°,λ101.00000°. NP2:ϕ_s169.00000°,δ22.00000°,λ61.00000°. Principal axes: T 0.9620,Plg62.0000°,Azm307.0000°; N 0.0240,Plg10.0000°,Azm196.0000° ; P -0.9860,Plg25.0000°,Azm101.0000° $M_0$0.97400×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=142.0. Felt at Misawa and Tokyo. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s89 Moment tensor: Scale 10^{17}Nm; M_{rr}2.61 $M_{\theta\theta}$1.27 $M_{\phi\phi}$-3.88 $M_{r\theta}$2.61 $M_{\theta\phi}$-0.29 $M_{\phi r}$4.36 Best double couple: NP1:ϕ_s154.00000°,δ23.00000°,λ38.00000°. NP2:ϕ_s28.00000° ,δ76.00000°,λ109.00000°. Principal axes: T 5.8900,Plg55.0000°,Azm321.0000° ; N 0.4700,Plg18.0000°,Azm203.0000°; P -6.3600,Plg28.0000°,Azm103.0000° $M_0$6.10000×10^{17}
IDC Error ellipse: s-maj=11.3km s-min=10.1km az=104.0.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}3.84 $M_{\theta\theta}$-0.07 $M_{\phi\phi}$-3.77 $M_{r\theta}$0.73 $M_{\theta\phi}$-0.74 $M_{\phi r}$6.20 Best double couple: NP1:ϕ_s7.00000° ,δ74.00000°,λ88.00000°. NP2:ϕ_s195.00000°,δ16.00000°,λ97.00000°. Principal axes: T 7.3200,Plg60.0000°,Azm274.0000°; N 0.0500,Plg1.0000°,Azm7.0000° ; P -7.3700,Plg29.0000°,Azm98.0000° $M_0$7.30000×10^{17}

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ISC	**III**	**24 13 55 13.4–.27**	**20.63N–.02**	**99.92E–.02**	**13–1**	**7.2s,6.1b**	**1716**	**2-168**
IDC	III	24 13 55 11.0–.33	20.71N	99.92E	0	7.0,7.0s	**¶16357310**	
ISCJB	III	24 13 55 11.6–.07	20.71N–.01	99.89E–.01	14	7.2s,6.0b		
GCMT	III	24 13 55 11.9–.10	20.62N	100.02E	13–0	6.8W,6.0b		
BJI	III	24 13 55 12.3	20.70N	99.85E	20	7.6s,7.4		
NEIC	III	24 13 55 12.0–.11	20.69N	99.82E	8	7.2L,7.1s		
NEIC	III	24 13 55 12.0–.00	20.50N	100.15E	15	7.2L,7.1s		
MOS	III	24 13 55 14.5–.97	20.65N	99.94E	12	7.1s,6.3b		
BKK	III	24 13 55 15.1–.30	21N–3.0	100E–3.0	10	7.0,6.9		
PLV	III	24 13 55 15.9–2.1	20.62N	100.21E	17–15	6.6W,6.4L		
NEIC	III	24 13 55 30.8–.00	20.36N	99.86E	10	6.6W,6.4L		

ISC Event type de.
IDC Error ellipse: s-maj=9.0km s-min=8.3km az=177.0.
ISCJB Event type de. Error ellipse: s-maj=1.8km s-min=1.5km az=29.6.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=125s. Moment Tensor Solution. s142,c369; s141,c659;Duration: 6s4 Moment tensor: Scale 10^{19} Nm; M_{rr}0.11±.01 $M_{\theta\theta}$-1.50±.01; $M_{\phi\phi}$1.39±.01; $M_{r\theta}$0.34±.02; $M_{\theta\phi}$1.67±.01; $M_{\phi r}$0.32±.03; Best double couple: NP1:ϕ_s70.00000°,δ85.00000°,λ11.00000°. NP2:ϕ_s339.00000° ,δ79.00000°,λ175.00000°. Principal axes: T 2.2410,Plg11.0000°,Azm295.0000° ; N 0.0380,Plg78.0000°,Azm94.0000°; P -2.2760,Plg4.0000°,Azm204.0000° $M_0$2.25800×10^{19}
NEIC Event type de. Error ellipse: s-maj=3.5km s-min=2.8km az=55.0. At least 74 people killed, 111 injured, 413 buildings damaged and one bridge collapsed in Shan. Landslides occurred in the area. Felt [VI] at Kengtung and [II] at Rangoon. Also felt at Mandalay and Taunggyi. One person killed in northern Thailand. Felt [VI] at Mae Sai; [IV] at Amnat Charoen, Chiang Rai, Lamphun, Mae Chan, Mae Rim, Nan, Nonthaburi, Phayao and Pong; [III] at Bangkok, Chiang Mai, Hang Dong, Lampang, Mae Hong Son, San Kamphaeng, San Pa Tong and San Sai. Twelve people injured, 9,496 people displaced and 9,691 houses, 136 reservoirs and 35 roads damaged in Yunnan, China. Felt [IV] at Jinghong, [III] at Nanning and [II] at Kunming. Felt [IV] at Louang Namtha and [II] at Louangphabang and Vientiane, Laos. Felt [III] at Hanoi, Vietnam. Also felt at Ho Chi Minh City. Felt widely in Laos, Myanmar, Thailand, Vietnam and southern China. Also felt at Phnom Penh, Cambodia and in Singapore. Felt at Dhaka, Bangladesh and at Aizawl, India. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$2.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000° ,δ81.00000°,λ-3.00000°. NP2:ϕ_s336.00000°,δ87.00000°,λ-17.00000°. Principal axes: T 1.3400,Plg4.0000°,Azm111.0000°; N -0.0300,Plg81.0000°,Azm354.0000° ; P -1.3100,Plg8.0000°,Azm201.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s244.00000°,δ80.00000°,λ-3.00000°. NP2: ϕ_s335.00000°,δ87.00000°,λ-170.00000°. Principal axes: T Plg5.0000°,Azm109.0000° ; N Plg0.0000°,Azm0.0000°; P Plg9.0000°,Azm200.0000°
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{19}Nm; M_{rr}0.08 $M_{\theta\theta}$-1.34 $M_{\phi\phi}$1.26 $M_{r\theta}$-0.48 $M_{\theta\phi}$1.42 $M_{\phi r}$1.55 Best double couple: NP1:ϕ_s338.00000° ,δ88.00000°,λ140.00000°. NP2:ϕ_s70.00000°,δ50.00000°,λ3.00000°. Principal axes: T 2.5500,Plg28.0000°,Azm286.0000°; N -0.0800,Plg49.0000°,Azm155.0000° ; P -2.4700,Plg25.0000°,Azm31.0000° $M_0$2.50000×10^{19}
MOS Error ellipse: s-maj=6.1km s-min=3.8km az=109.8. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s256.00000°,δ81.00000°,λ-14.00000°. NP2: ϕ_s348.00000°,δ76.00000°,λ-171.00000°. Principal axes: T Plg4.0000°,Azm303.0000° ; N Plg74.0000°,Azm45.0000°; P Plg16.0000°,Azm212.0000° $M_0$1.70000×10^{19}
PLV Error ellipse: s-maj=12.1km s-min=19.2km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s69 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.07 $M_{\theta\theta}$-1.30 $M_{\phi\phi}$1.37 $M_{r\theta}$0.11 $M_{\theta\phi}$1.59 $M_{\phi r}$-0.13 Best double couple: NP1:ϕ_s340.00000° ,δ88.00000°,λ-176.00000°. NP2:ϕ_s250.00000°,δ86.00000°,λ-2.00000°. Principal axes: T 2.1100,Plg2.0000°,Azm115.0000°; N -0.0600,Plg85.0000°,Azm1.0000° ; P -2.0500,Plg4.0000°,Azm205.0000° $M_0$2.10000×10^{19}

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ISC	**III**	**24 15 54 35.5–.37**	**20.63N–.02**	**99.84E–.03**	**9–2**	**5.4s,5.4b**	**731**	**2-168**
IDC	III	24 15 54 33.5–.37	20.61N	99.82E	0	5.1s,5.1	**¶16357315**	
BKK	III	24 15 54 33.2–.70	21N–5.0	100E–4.0	10	6.2,6.1b		
BJI	III	24 15 54 33.4	20.60N	99.90E	10	6.1L,5.9s		
MOS	III	24 15 54 34.0–.89	20.62N	99.82E	14	5.6b,5.5s		
GCMT	III	24 15 54 35.1–.50	20.61N	99.90E	14–2	5.7W,5.5s		
ISCJB	III	24 15 54 35.4–.09	20.71N–.01	99.80E–.02	19	5.4s,5.3b		
NEIC	III	24 15 54 35.1–.13	20.65N	99.77E	10	5.4b,5.3b		
PLV	III	24 15 54 35.8–2.0	20.49N	100.06E	8–9	5.6L,4.8W		

ISC Event type se.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=98.0.
MOS Error ellipse: s-maj=6.3km s-min=3.6km az=113.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s2,c2; s75,c104; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13±.25 $M_{\theta\theta}$-1.52±.20; $M_{\phi\phi}$1.39±.21; $M_{r\theta}$1.07±.54; $M_{\theta\phi}$3.41±.20; $M_{\phi r}$1.13±.59; Best double couple: NP1:ϕ_s80.00000°,δ79.00000° ,λ18.00000°. NP2:ϕ_s347.00000°,δ72.00000°,λ168.00000°. Principal axes: T 4.2190,Plg21.0000°,Azm304.0000°; N -0.4240,Plg69.0000°,Azm111.0000° ; P -3.7930,Plg4.0000°,Azm213.0000° $M_0$4.00600×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.9km az=154.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.2km az=64.0.
PLV Error ellipse: s-maj=11.5km s-min=14.9km az=-1.0.

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ISC	**III**	**25 00 22 39.7–.27**	**20.63N–.03**	**99.88E–.04**	**10**	**4.9b,4.5s**	**326**	**2-158**
ISCJB	III	25 00 22 37.5–.12	20.71N–.02	99.89E–.02	10	4.8b,4.4s	**¶16358678**	
BKK	III	25 00 22 37.5–1.9	21N–17	100E–4.0	10	5.7b,5.6		
IDC	III	25 00 22 37.2–.43	20.67N	99.96E	0	4.8L,4.6		
MOS	III	25 00 22 38.0–.95	20.73N	99.89E	14	5.0b,4.3s		
BJI	III	25 00 22 38.7	20.60N	99.90E	10	5.5L,5.2s		
NEIC	III	25 00 22 39.3–.15	20.71N	99.88E	10	5.0b,5.2s		
GCMT	III	25 00 22 39.3–.20	20.60N	99.95E	12	5.0W,5.2s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.5km az=158.6.
IDC Error ellipse: s-maj=12.8km s-min=9.6km az=93.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=111.2.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=76.0. Felt at Louang Namtha, Laos and at Chiang Mai and Phrae, Thailand.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c38; s95,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.24±.09 $M_{\theta\theta}$1.55±.08; $M_{\phi\phi}$-1.31±.09; $M_{r\theta}$2.54±.23; $M_{\theta\phi}$3.04±.07; $M_{\phi r}$1.21±.24; Best double couple: NP1:ϕ_s104.00000°,δ78.00000° ,λ28.00000°. NP2:ϕ_s8.00000°,δ63.00000°,λ166.00000°. Principal axes: T 4.9780,Plg28.0000°,Azm329.0000°; N -1.6780,Plg60.0000°,Azm126.0000° ; P -3.3000,Plg10.0000°,Azm233.0000° $M_0$4.13900×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**25 11 36 24.3–.18**	**38.75N–.02**	**141.99E–.03**	**39–1**	**6.1b,6.0s**	**2169**	**1-160**
NIED	III	25 11 36 00	38.70N	142.10E	44	6.2W,6.0s	**¶602442668**	
MOS	III	25 11 36 21.8–1.0	38.82N	142.02E	33	6.2b,6.0s		
BJI	III	25 11 36 21.0	38.65N	142.00E	30	6.3s,6.2		
ISCJB	III	25 11 36 22.2–.38	38.77N–.02	141.91E–.01	33–3	6.0b,6.0s		
GCMT	III	25 11 36 24.5–.10	38.78N	142.17E	46–0	6.2W,6.0s		
NEIC	III	25 11 36 24.0–.00	38.56N	142.14E	39	6.2W,6.0s		
JMA	III	25 11 36 24.2–.10	38.73N	142.11E	45–1	6.3,6.0s		
NEIC	III	25 11 36 24.5–.08	38.77N	141.88E	39	6.2W,6.2b		
IDC	III	25 11 36 26.1–1.6	38.78N	141.95E	54–14	6.0,6.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ102.00000°. $M_0$2.10000×10^{18}
MOS Error ellipse: s-maj=7.1km s-min=4.3km az=92.5.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=158.8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c310; s129,c491;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}1.88±.01 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$-1.83±.01; $M_{r\theta}$0.82±.01; $M_{\theta\phi}$-0.49±.01; $M_{\phi r}$1.60±.01; Best double couple: NP1:ϕ_s23.00000°,δ67.00000°,λ97.00000°. NP2:ϕ_s185.00000° ,δ24.00000°,λ74.00000°. Principal axes: T 2.6140,Plg68.0000°,Azm306.0000° ; N 0.0350,Plg7.0000°,Azm200.0000°; P -2.6420,Plg21.0000°,Azm108.0000° $M_0$2.62800×10^{18}
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{18}Nm; M_{rr}1.31 $M_{\theta\theta}$-0.24 $M_{\phi\phi}$-1.07 $M_{r\theta}$1.05 $M_{\theta\phi}$-0.19 $M_{\phi r}$2.29 Best double couple: NP1:ϕ_s23.00000° ,δ77.00000°,λ94.00000°. NP2:ϕ_s187.00000°,δ13.00000°,λ74.00000°. Principal axes: T 2.9100,Plg57.0000°,Azm298.0000°; N -0.2300,Plg3.0000°,Azm202.0000° ; P -2.6700,Plg32.0000°,Azm110.0000° $M_0$2.80000×10^{18}
JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=145.0. Felt [IV] at Misawa. Also felt at Akiruno, Numata and Tokyo. Recorded [4 JMA] in Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s94 Moment tensor: Scale 10^{18}Nm; M_{rr}1.14 $M_{\theta\theta}$0.34 $M_{\phi\phi}$-1.48 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.24 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s165.00000°,δ28.00000°,λ53.00000°. NP2:ϕ_s26.00000° ,δ68.00000°,λ108.00000°. Principal axes: T 1.7700,Plg62.0000°,Azm323.0000° ; N 0.2200,Plg16.0000°,Azm199.0000°; P -1.9900,Plg22.0000°,Azm102.0000° $M_0$1.90000×10^{18}

IDC Error ellipse: s-maj=10.2km s-min=8.2km az=101.0.

(181) Fiji Islands region

ISC	**III**	**26 22 49 43.3–.45**	**15.92S–.04**	**179.23W–.04**	**22–3**	**5.9s,5.7b**	**1150**	**3-177**
IDC	III	26 22 49 39.1–.40	15.85S	179.37W	0	5.8,5.8s		**¶16459605**
NEIC	III	26 22 49 40.8–.12	15.85S	179.41W	6	6.7,6.0W		
GCMT	III	26 22 49 41.5–.10	15.79S	179.26W	12–0	6.0W,6.0W		
BJI	III	26 22 49 42.0	15.26S	179.17W	13	6.0b,5.9s		
NEIC	III	26 22 49 42.0–.00	15.79S	179.29W	15	6.0b,5.9s		
ISCJB	III	26 22 49 43.6–.09	15.91S–.03	179.38W–.02	33	5.9s,5.6b		
MOS	III	26 22 49 44.4–1.3	15.75S	179.49W	33	5.8b,5.8s		

ISC Event type fe.

IDC Error ellipse: s-maj=13.9km s-min=11.2km az=141.0.

NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=138.0. Felt [VI] at Lambasa, [V] at Suva and [IV] at Savusavu. Also felt at Nambouwalu, Nausori and Seanggangga. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s55 Moment tensor: Scale 10^{18}Nm; M_{rr}0.16 $M_{\theta\theta}$-1.08 $M_{\phi\phi}$0.92 $M_{r\theta}$0.11 $M_{\theta\phi}$0.54 $M_{\phi r}$0.17 Best double couple: NP1: ϕ_s60.00000°,δ84.00000°,λ10.00000°. NP2:ϕ_s329.00000°,δ80.00000°,λ174.00000°. Principal axes: T 1.0900,Plg11.0000°,Azm284.0000°; N 0.1300,Plg78.0000°,Azm91.0000° ; P -1.2200,Plg3.0000°,Azm194.0000° $M_0$1.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s60.00000°,δ85.00000°,λ-3.00000°. NP2: ϕ_s150.00000°,δ87.00000°,λ-175.00000°. Principal axes: T Plg1.0000°,Azm285.0000° ; N Plg0.0000°,Azm0.0000°; P Plg6.0000°,Azm15.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c282; s130,c495;Duration: 2$\hat{s}$6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.12±.01 $M_{\theta\theta}$-1.25±.01; $M_{\phi\phi}$1.14±.01; $M_{r\theta}$-0.20±.02; $M_{\theta\phi}$0.78±.01; $M_{\phi r}$0.01±.02; Best double couple: NP1:ϕ_s61.00000°,δ87.00000°,λ-6.00000°. NP2:ϕ_s152.00000° ,δ84.00000°,λ-177.00000°. Principal axes: T 1.3710,Plg2.0000°,Azm107.0000° ; N 0.1390,Plg83.0000°,Azm213.0000°; P -1.5030,Plg7.0000°,Azm16.0000° $M_0$1.43700×10^{18}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ80.00000° ,λ27.00000°. NP2:ϕ_s155.00000°,δ64.00000°,λ169.00000°. Principal axes: T 1.3600,Plg25.0000°,Azm115.0000°; N -0.1000,Plg61.0000°,Azm268.0000° ; P -1.2600,Plg11.0000°,Azm19.0000°

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=150.2.

MOS Error ellipse: s-maj=7.9km s-min=6.4km az=62.8.

(69) Near coast of Chiapas

ISC	**III**	**27 06 20 56.0–.31**	**14.35N–.04**	**92.61W–.03**	**40–2**	**5.3s,5.3b**	**1285**	**1-159**
IDC	III	27 06 20 50.1–.45	14.45N	92.22W	0	5.3,5.2		**¶16362956**
CASC	III	27 06 20 54.3–1.2	14.43N	92.64W	20–456	5.7b,5.2		
GCMT	III	27 06 20 55.9–.10	14.34N	92.93W	29–0	5.7W,5.2		
MEX	III	27 06 20 55.0–.36	14.20N	92.74W	20–8	5.3,5.2		
NEIC	III	27 06 20 56.0–.17	14.37N	92.35W	35	5.7W,5.6W		
ISCJB	III	27 06 20 56.6–.15	14.47N–.02	92.39W–.02	54	5.3b,5.3s		
MOS	III	27 06 20 57.6–.98	14.63N	92.24W	55	5.4b,5.2s		
NEIC	III	27 06 20 57.0–.00	14.45N	92.35W	44	5.4b,5.2s		
BJI	III	27 06 20 58.1	14.40N	92.30W	53	5.6s,5.4		
NEIC	III	27 06 21 10.5–.00	14.25N	91.87W	32	5.6s,5.4		

ISC Event type fe.

IDC Error ellipse: s-maj=20.8km s-min=9.8km az=51.0.

CASC Error ellipse: s-maj=94.8km s-min=279.1km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c230; s120,c324;Duration: 1$\hat{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.76±.04 $M_{\theta\theta}$-2.99±.03; $M_{\phi\phi}$-0.77±.04; $M_{r\theta}$1.79±.06; $M_{\theta\phi}$1.55±.03; $M_{\phi r}$-1.62±.07; Best double couple: NP1: ϕ_s125.00000°,δ61.00000°,λ98.00000°. NP2:ϕ_s289.00000°,δ30.00000°,λ76.00000°. Principal axes: T 4.5030,Plg73.0000°,Azm53.0000°; N -0.0490,Plg7.0000°,Azm301.0000° ; P -4.4560,Plg16.0000°,Azm209.0000° $M_0$4.48000×10^{17}

MEX Error ellipse: s-maj=7.3km s-min=2.2km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=220.0. Felt [IV] at Tapachula. Also felt at Huatulco. Felt [II] at Guatemala and Mixco, Guatemala. Also felt at Antigua Guatemala, Cahabon, Mazatenango, Panajachel, Quetzaltenango, San Pedro La Laguna, San Pedro Sacatepequez, Villa Canales and Villa Nueva. Felt at San Salvador, El Salvador. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}2.57 $M_{\theta\theta}$-1.93 $M_{\phi\phi}$-0.64 $M_{r\theta}$0.60 $M_{\theta\phi}$1.36 $M_{\phi r}$-0.89 Best double couple: NP1:ϕ_s131.00000°,δ56.00000°,λ101.00000°. NP2: ϕ_s293.00000°,δ36.00000°,λ75.00000°. Principal axes: T 2.8100,Plg76.0000°,Azm76.0000° ; N 0.1600,Plg9.0000°,Azm305.0000°; P -2.9700,Plg10.0000°,Azm214.0000° $M_0$2.90000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=1.5km az=41.3.

MOS Error ellipse: s-maj=7.4km s-min=4.0km az=103.6.

NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}2.89 $M_{\theta\theta}$-1.65 $M_{\phi\phi}$-1.24 $M_{r\theta}$1.55 $M_{\theta\phi}$1.25 $M_{\phi r}$-0.92 Best double couple: NP1:ϕ_s125.00000° ,δ61.00000°,λ85.00000°. NP2:ϕ_s315.00000°,δ29.00000°,λ98.00000°. Principal axes: T 3.4300,Plg73.0000°,Azm24.0000°; N -0.2000,Plg3.0000°,Azm127.0000° ; P -3.2300,Plg16.0000°,Azm218.0000° $M_0$3.30000×10^{17}

NEIC Event type se. Moment Tensor Solution. s74 Moment tensor: Scale 10^{17}Nm; M_{rr}4.02 $M_{\theta\theta}$-3.16 $M_{\phi\phi}$-0.86 $M_{r\theta}$2.43 $M_{\theta\phi}$1.17 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s294.00000° ,δ28.00000°,λ92.00000°. NP2:ϕ_s112.00000°,δ62.00000°,λ89.00000°. Principal axes: T 4.8200,Plg73.0000°,Azm19.0000°; N -0.3700,Plg1.0000°,Azm112.0000° ; P -4.4500,Plg17.0000°,Azm202.0000° $M_0$4.60000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**27 13 41 34.3–.24**	**38.99N–.03**	**142.43E–.03**	**38–1**	**5.5b,5.1s**	**1539**	**1-159**
NIED	III	27 13 41 00	38.90N	142.40E	32	5.2W,5.1s		**¶602696936**
BJI	III	27 13 41 32.3	38.90N	142.33E	43	5.2b,5.2b		
ISCJB	III	27 13 41 33.5–.35	38.97N–.02	142.33E–.02	40–3	5.5b,5.0s		
JMA	III	27 13 41 33.4–.10	38.97N	142.40E	36–2	5.4,5.0s		
MOS	III	27 13 41 33.0–.89	39.10N	142.35E	33	5.7b,5.0s		
IDC	III	27 13 41 34.2–.40	38.97N	142.32E	34–2	5.1,5.0		
NEIC	III	27 13 41 34.3–.07	38.95N	142.36E	35	5.6b,5.3W		
GCMT	III	27 13 41 34.3–.10	39.10N	142.29E	38–0	5.3W,5.3W		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ17.00000°,λ-58.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-99.00000°. M_w8.05000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=7.4km s-min=4.9km az=95.8.

IDC Error ellipse: s-maj=9.2km s-min=8.7km az=96.0.

NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=146.0. Felt at Misawa. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi. Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ39.00000°,λ-39.00000°. NP2:ϕ_s190.00000°,δ66.00000°,λ-12.00000°. Principal axes: T 1.2400,Plg15.0000°,Azm303.0000°; N -0.2800,Plg29.0000°,Azm204.0000° ; P -0.9600,Plg56.0000°,Azm58.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s99,c177; s107,c201;Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.76±.02 $M_{\theta\theta}$0.21±.01; $M_{\phi\phi}$0.55±.01; $M_{r\theta}$0.00±.01; $M_{\theta\phi}$0.22±.01; $M_{\phi r}$0.73±.01; Best double couple: NP1:ϕ_s189.00000° ,δ68.00000°,λ-101.00000°. NP2:ϕ_s35.00000°,δ24.00000°,λ-66.00000°. Principal axes: T 0.9320,Plg22.0000°,Azm287.0000°; N 0.1580,Plg10.0000°,Azm193.0000° ; P -1.0900,Plg65.0000°,Azm81.0000° $M_0$1.01100×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**27 22 23 58.7–.32**	**38.38N–.02**	**142.22E–.02**	**20–1**	**6.3b,6.2s**	**2572**	**1-164**
NIED	III	27 22 23 00	38.40N	142.30E	20	6.1W,6.2s		**¶602696198**
BJI	III	27 22 23 55.2	38.40N	142.10E	10	6.4,6.4s		
IDC	III	27 22 23 55.4–.31	38.37N	142.17E	0	6.1,6.1s		
ISCJB	III	27 22 23 56.3–.48	38.37N–.01	142.08E–.01	12–2	6.2b,6.2s		
NEIC	III	27 22 23 56.0–.00	38.21N	142.12E	15	6.2b,6.2s		
JMA	III	27 22 23 57.0–.10	38.38N	142.35E	32–1	6.5,6.2s		
MOS	III	27 22 23 57.8–.85	38.41N	142.08E	21	6.5b,6.2s		
NEIC	III	27 22 23 58.8–.07	38.42N	142.01E	19	6.4,6.3b		
GCMT	III	27 22 23 58.8–.10	38.40N	142.09E	22–0	6.2W,6.3b		
NEIC	III	27 22 24 06.9–.00	38.34N	142.09E	10	6.2W,6.3b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ26.00000°,λ-67.00000°. NP2:ϕ_s281.00000°,δ67.00000°,λ-101.00000°. $M_0$1.66000×10^{18}

IDC Error ellipse: s-maj=10.2km s-min=9.3km az=57.0.

ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=159.2.

NEIC Event type se. Moment Tensor Solution. s90 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.07 $M_{\theta\theta}$1.57 $M_{\phi\phi}$0.50 $M_{r\theta}$1.99 $M_{\theta\phi}$-0.61 $M_{\phi r}$-0.29 Best double couple: NP1:ϕ_s283.00000° ,δ68.00000°,λ-97.00000°. NP2:ϕ_s122.00000°,δ23.00000°,λ-72.00000°. Principal axes: T 2.6500,Plg22.0000°,Azm18.0000°; N 0.2900,Plg6.0000°,Azm286.0000° ; P -2.9400,Plg66.0000°,Azm180.0000° $M_0$2.80000×10^{18}

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

MOS Error ellipse: s-maj=8.3km s-min=4.5km az=105.3.

NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=143.0. Felt [IV] at Misawa and [II] at Zama. Also felt at Akishima, Akita, Aomori, Furukawa, Narita, Otawara, Tokyo, Uenohara and Urayasu. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s96 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.17 $M_{\theta\theta}$1.48 $M_{\phi\phi}$-0.31 $M_{r\theta}$1.14 $M_{\theta\phi}$-0.51 $M_{\phi r}$-0.03 Best double couple: NP1:ϕ_s274.00000°,δ65.00000°,λ-102.00000°. NP2: ϕ_s121.00000°,δ27.00000°,λ-66.00000°. Principal axes: T 2.0000,Plg19.0000°,Azm13.0000° ; N -0.3900,Plg11.0000°,Azm279.0000°; P -1.6100,Plg68.0000°,Azm162.0000° $M_0$1.80000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s85.00000°,δ17.00000°,λ-90.00000°. NP2:ϕ_s265.00000°,δ73.00000°,λ-90.00000°. Principal axes: T Plg28.0000°,Azm355.0000°; N Plg0.0000°,Azm0.0000°; P Plg62.0000° ,Azm175.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c343; s141,c561;Duration: 3$\hat{s}$2 Moment tensor: Scale 10^{18} Nm; M_{rr}-2.28±.02 $M_{\theta\theta}$1.88±.01; $M_{\phi\phi}$0.39±.01; $M_{r\theta}$1.85±.03; $M_{\theta\phi}$-0.64±.01; $M_{\phi r}$0.32±.02; Best double couple: NP1:ϕ_s273.00000°,δ65.00000°,λ-104.00000°. NP2:ϕ_s123.00000° ,δ28.00000°,λ-62.00000°. Principal axes: T 2.6900,Plg19.0000°,Azm13.0000° ; N 0.3690,Plg13.0000°,Azm279.0000°; P -3.0650,Plg67.0000°,Azm157.0000° $M_0$2.87700×10^{18}

NEIC Event type se. Moment Tensor Solution. s102 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.76 $M_{\theta\theta}$1.53 $M_{\phi\phi}$0.24 $M_{r\theta}$-0.30 $M_{\theta\phi}$-0.56 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s306.00000° ,δ45.00000°,λ-68.00000°. NP2:ϕ_s95.00000°,δ49.00000°,λ-111.00000°. Principal axes: T 1.7400,Plg2.0000°,Azm200.0000°; N 0.1800,Plg16.0000°,Azm109.0000° ; P -1.9200,Plg74.0000°,Azm297.0000° $M_0$1.80000×10^{18}

(259) Mindanao

ISC	**III**	**28 05 32 29.5–1.3**	**8.67N–.03**	**125.07E–.06**	**25–10**	**4.2s,4.2b**	**81**	**1-145**
MAN	III	28 05 32 27	8.56N	124.89E	3	5.0b,4.0s		**¶16374423**
ISCJB	III	28 05 32 28.7–.42	8.59N–.02	125.07E–.05	39–4	4.2s,4.2b		
NEIC	III	28 05 32 29.6–3.0	8.69N	125.16E	29–22	4.4b,4.2b		
BJI	III	28 05 32 30.1	8.71N	125.04E	33	5.0b,4.5s		
IDC	III	28 05 32 31.4–2.8	8.68N	125.27E	42–28	4.0,3.9		
DJA	III	28 05 32 43.1–3.5	7N–30	125E–8.0	10	5.6b,5.1		

ISC Event type fe.

MAN Event type fe. INTENSITY III - TAGOLOAN MISAMIS ORIENTAL; INTENSITY II - CAGAYAN DE ORO CITY; MALAYBALAY BUKIDNON.

ISCJB Event type fe.

NEIC Event type fe. Felt [III PIVS] at Tagoloan and [II PIVS] at Cagayan de Oro. Felt [IV] at Manolo Fortich. Also felt at Adtugan, Balingasag, Gingoog, Iligan, Lagonglong and Lapasan.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 05 44 56.5–.47**	**36.36N–.03**	**141.83E–.03**	**27–2**	**5.2b,5.1s**	**740**	**1-148**
NIED	III	28 05 44 00	36.40N	141.90E	29	5.2W,5.1s		**¶16364042**
BJI	III	28 05 44 52.8	36.40N	141.56E	11	5.3b,5.3s		
JMA	III	28 05 44 54.7–.20	36.36N	141.86E	73–5	5.3,5.3s		
ISCJB	III	28 05 44 55.1–.69	36.35N–.02	141.75E–.02	26–4	5.2b,5.0s		
IDC	III	28 05 44 57.4–3.8	36.33N	141.79E	33–28	4.9,4.8		
MOS	III	28 05 44 57.7–.85	36.73N	141.68E	33	5.6b,5.2s		
NEIC	III	28 05 44 58.4–.50	36.36N	141.73E	39–4	5.2W,5.1b		
GCMT	III	28 05 44 58.4–.20	36.29N	141.99E	28–0	5.2W,5.1b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ25.00000°,λ84.00000°. NP2:ϕ_s16.00000°,δ65.00000°,λ93.00000°. M_w6.95000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=153.3.

IDC Error ellipse: s-maj=12.5km s-min=9.3km az=100.0.

MOS Error ellipse: s-maj=7.0km s-min=4.1km az=108.0.

NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=148.0. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}5.70 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-6.56 $M_{r\theta}$-0.13 $M_{\theta\phi}$-1.28 $M_{\phi r}$3.59 Best double couple: NP1:ϕ_s198.00000°,δ31.00000°,λ103.00000°. NP2:ϕ_s3.00000° ,δ60.00000°,λ82.00000°. Principal axes: T 6.7100,Plg74.0000°,Azm253.0000° ; N 0.9900,Plg7.0000°,Azm7.0000°; P -7.7000,Plg15.0000°,Azm98.0000° $M_0$7.30000×10^{16}

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c112; s107,c192; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57±.02 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.54±.01; $M_{r\theta}$0.20±.02; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$0.61±.02; Best double couple: NP1:ϕ_s18.00000°,δ69.00000° ,λ89.00000°. NP2:ϕ_s200.00000°,δ21.00000°,λ92.00000°. Principal axes: T 0.8510,Plg66.0000°,Azm287.0000°; N 0.0420,Plg1.0000°,Azm18.0000° ; P -0.8930,Plg24.0000°,Azm109.0000° $M_0$0.87200×10^{17}

(135) Near coast of central Chile

ISC	**III**	**28 06 10 42.0–.38**	**34.94S–.03**	**71.75W–.04**	**49–3**	**5.2b,4.5s**	**1010**	**0-179**
MOS	III	28 06 10 39.8–1.0	34.74S	71.55W	33	5.5b,4.5s		**¶16364045**
GUC	III	28 06 10 40.7–.64	34.89S	71.84W	45–2	5.7L,4.5s		
BJI	III	28 06 10 41.0	35.71S	71.16W	47	5.5s,5.4b		
SJA	III	28 06 10 42.3–1.7	34.70S	71.94W	155–24	4.9L,4.5W		
ISCJB	III	28 06 10 42.1–.33	34.90S–.02	71.75W–.04	61–3	5.2b,4.5W		
GCMT	III	28 06 10 42.4–.20	34.91S	72.08W	51–1	5.2W,4.5W		
NEIC	III	28 06 10 42.4–.11	34.83S	71.54W	46	5.2b,4.5W		
IDC	III	28 06 10 42.1–.57	34.89S	71.62W	47–4	5.2,5.0		

ISC Event type fe.

MOS Error ellipse: s-maj=16.3km s-min=7.0km az=100.0.

GUC Error ellipse: s-maj=1.2km s-min=2.7km az=-1.0.

SJA Error ellipse: s-maj=7.2km s-min=32.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.8km az=4.7.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c83; s75,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.66±.24 $M_{\theta\theta}$-0.21±.18; $M_{\phi\phi}$-5.45±.17; $M_{r\theta}$1.42±.14; $M_{\theta\phi}$-1.29±.12; $M_{\phi r}$-3.62±.18; Best double couple: NP1:ϕ_s176.00000°,δ62.00000° ,λ73.00000°. NP2:ϕ_s29.00000°,δ32.00000°,λ119.00000°. Principal axes: T 7.1440,Plg68.0000°,Azm52.0000°; N -0.5080,Plg15.0000°,Azm184.0000° ; P -6.6370,Plg15.0000°,Azm278.0000° $M_0$6.89100×10^{16}

NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=72.0. Felt [V] at Iloca, Linares, Molina, Rio Claro, Romeral, Sagrada Familia and Talca; [IV] at Constitucion, Curico, Pichilemu and Rancagua. Felt widely in central Chile from Santiago and Vina del Mar to Cauquenes. Also felt at San Rafael, Argentina.

IDC Error ellipse: s-maj=18.0km s-min=10.9km az=90.0.

(274) Southern Sumatera

ISC	**III**	**29 06 22 46.5–.56**	**5.25S–.05**	**102.45E–.05**	**43–4**	**4.8b,4.1s**	**282**	**1-152**
DJA	III	29 06 22 44.3–2.1	5S–6.0	102E–6.0	14–17	5.6b,5.2		**¶16375932**
ISCJB	III	29 06 22 45.2–.57	5.23S–.04	102.49E–.04	45–4	4.8b,4.0s		
BJI	III	29 06 22 45.2	5.20S	102.40E	39	5.1b,4.9b		
KLM	III	29 06 22 45.5	5.48S	102.46E	36	5.9s,5.0L		
IDC	III	29 06 22 46.1–3.1	5.00S	102.67E	31–20	4.7,4.6		
NEIC	III	29 06 22 46.6–.60	5.19S	102.48E	43–5	4.9b,4.6		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.0km az=136.3.

IDC Error ellipse: s-maj=22.4km s-min=8.8km az=42.0.

NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.3km az=50.0.

(221) Kuril Islands

ISC	**III**	**29 08 28 35.4–.55**	**45.47N–.04**	**146.35E–.04**	**46–4**	**4.9b,4.2s**	**999**	**1-154**
NIED	III	29 08 28 00	45.30N	146.40E	11	4.8W,4.2s		**¶16375937**
IDC	III	29 08 28 28.3–.45	45.40N	146.44E	0	4.7,4.6		
MOS	III	29 08 28 31.7–1.2	45.37N	146.35E	36	5.1b,4.2s		
SKHL	III	29 08 28 32.2–.60	45.35N	146.53E	47–4	5.6b,5.5s		
ISCJB	III	29 08 28 32.5–.51	45.49N–.03	146.37E–.02	35–4	4.9b,4.2s		
BJI	III	29 08 28 34.2	45.48N	146.26E	48	5.0b,4.9b		
NEIC	III	29 08 28 34.6–.45	45.46N	146.29E	40–4	5.0b,4.9b		
JMA	III	29 08 28 34.1–.30	45.35N	146.45E	0	4.8,4.9b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ44.00000°,λ2.00000°. NP2:ϕ_s223.00000°,δ89.00000°,λ134.00000°. M_w1.76000×10^{16}

IDC Error ellipse: s-maj=13.6km s-min=11.6km az=147.0.

MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=98.5. Felt (II-III) at Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (II-III) at Kurilsk.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.6km az=171.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=163.0. Felt [III] at Kuril'sk.
JMA Error ellipse: s-maj=2.2km s-min=2.3km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**29 10 54 34.0–.34**	**37.44N–.02**	**142.35E–.02**	**20–1**	**6.1s,6.0b**	**2166**	**1-161**
NIED	III	29 10 54 00	37.40N	142.40E	23	6.2W,6.0b		**¶602707319**
BJI	III	29 10 54 28.7	37.40N	142.45E	15	6.6s,6.5		
JMA	III	29 10 54 30.4–.20	37.41N	142.47E	13–3	6.6,6.5		
IDC	III	29 10 54 30.6–.29	37.46N	142.35E	0	6.1,6.1s		
ISCJB	III	29 10 54 31.0–.50	37.40N–.01	142.34E–.01	10–3	6.2s,6.0b		
NEIC	III	29 10 54 33.2–.07	37.40N	142.29E	15	6.2,6.1W		
GCMT	III	29 10 54 33.2–.10	37.47N	142.37E	18–0	6.2W,6.1W		
NEIC	III	29 10 54 33.0–.00	37.21N	142.65E	18	6.2W,6.1W		
MOS	III	29 10 54 34.2–1.0	37.64N	142.36E	33	6.2b,6.1s		
NEIC	III	29 10 54 50.1–.00	37.46N	141.75E	10	6.2b,6.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ46.00000°,λ-130.00000°. NP2:ϕ_s224.00000°,δ57.00000°,λ-56.00000°. $M_0$1.99000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=164.9.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=140.0. Felt [III] at Tokyo. Also felt at Ageo, Ayase, Kawasaki, Misawa, Musashimurayama, Narita and Otawara. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$3.10000×10^{18} Moment Tensor Solution. s67 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.49 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$1.68 $M_{r\theta}$0.98 $M_{\theta\phi}$0.52 $M_{\phi r}$0.48 Best double couple: NP1:ϕ_s351.00000°,δ38.00000°,λ-131.00000°. NP2:ϕ_s219.00000°,δ62.00000°,λ-63.00000°. Principal axes: T 1.9700,Plg13.0000°,Azm289.0000°; N 0.0500,Plg24.0000°,Azm25.0000°; P -2.0200,Plg63.0000°,Azm174.0000° $M_0$2.00000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s50.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s230.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm320.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm140.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c315; s145,c563;Duration: 3⁋1 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.64±.01 $M_{\theta\theta}$0.13±.01; $M_{\phi\phi}$1.51±.01; $M_{r\theta}$1.55±.03; $M_{\theta\phi}$0.77±.01; $M_{\phi r}$0.90±.02; Best double couple: NP1:ϕ_s228.00000°,δ69.00000°,λ-70.00000°. NP2:ϕ_s3.00000°,δ29.00000°,λ-131.00000°. Principal axes: T 2.4290,Plg21.0000°,Azm303.0000°; N 0.1510,Plg18.0000°,Azm41.0000°; P -2.5800,Plg61.0000°,Azm168.0000° $M_0$2.50500×10^{18}
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.29 $M_{\theta\theta}$0.27 $M_{\phi\phi}$1.02 $M_{r\theta}$1.31 $M_{\theta\phi}$0.45 $M_{\phi r}$0.93 Best double couple: NP1:ϕ_s227.00000°,δ72.00000°,λ-77.00000°. NP2:ϕ_s11.00000°,δ22.00000°,λ-123.00000°. Principal axes: T 1.9100,Plg25.0000°,Azm306.0000°; N 0.2400,Plg12.0000°,Azm42.0000°; P -2.1500,Plg61.0000°,Azm155.0000° $M_0$2.00000×10^{18}
MOS Error ellipse: s-maj=8.4km s-min=4.5km az=105.6.
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.45 $M_{\theta\theta}$0.21 $M_{\phi\phi}$1.24 $M_{r\theta}$-0.64 $M_{\theta\phi}$0.70 $M_{\phi r}$0.28 Best double couple: NP1:ϕ_s185.00000°,δ49.00000°,λ-122.00000°. NP2:ϕ_s49.00000°,δ50.00000°,λ-59.00000°. Principal axes: T 1.5900,Plg1.0000°,Azm117.0000°; N 0.1600,Plg23.0000°,Azm208.0000°; P -1.7500,Plg67.0000°,Azm25.0000° $M_0$1.70000×10^{18}

(229) Off east coast of Honshu

ISC	**III**	**29 16 35 49.0–.42**	**39.60N–.03**	**143.60E–.03**	**26–2**	**5.3b,5.2s**	**1344**	**1-154**
NIED	III	29 16 35 00	39.70N	143.80E	11	5.4W,5.2s		**¶16455783**
JMA	III	29 16 35 44.1–.20	39.65N	143.78E	8	5.6,5.2s		
IDC	III	29 16 35 45.1–.33	39.54N	143.56E	0	5.0,5.0		
ISCJB	III	29 16 35 46.1–.63	39.62N–.02	143.48E–.02	11–3	5.2b,5.2s		
BJI	III	29 16 35 47.1	39.57N	143.12E	10	5.6b,5.6s		
NEIC	III	29 16 35 49.3–.98	39.59N	143.46E	25–7	5.5W,5.3b		
GCMT	III	29 16 35 49.3–.10	39.64N	143.73E	13–0	5.4W,5.3b		
MOS	III	29 16 35 49.7–.97	39.83N	143.42E	33	5.6b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ34.00000°,λ65.00000°. NP2:ϕ_s30.00000°,δ60.00000°,λ106.00000°. $M_0$1.31000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=165.9.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.2km az=145.0. Moment Tensor Solution. s52 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$-1.25 $M_{r\theta}$0.75 $M_{\theta\phi}$0.00 $M_{\phi r}$1.61 Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ63.00000°. NP2:ϕ_s19.00000°,δ72.00000°,λ99.00000°. Principal axes: T 2.3900,Plg62.0000°,Azm303.0000°; N -0.3300,Plg9.0000°,Azm196.0000°; P -2.0600,Plg26.0000°,Azm101.0000° $M_0$2.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c160; s130,c265; Duration: 1⁋2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.04±.02 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$-0.99±.01; $M_{r\theta}$0.45±.03; $M_{\theta\phi}$-0.27±.01; $M_{\phi r}$1.14±.05; Best double couple: NP1:ϕ_s20.00000°,δ70.00000°,λ94.00000°. NP2:ϕ_s189.00000°,δ21.00000°,λ80.00000°. Principal axes: T 1.6070,Plg65.0000°,Azm296.0000°; N 0.0180,Plg4.0000°,Azm199.0000°; P -1.6260,Plg25.0000°,Azm107.0000° $M_0$1.61700×10^{17}
MOS Error ellipse: s-maj=8.1km s-min=5.1km az=98.3.

(273) Southwest of Sumatera

ISC	**III**	**30 03 24 01.1–.48**	**0.24S–.05**	**96.67E–.06**	**32**	**4.3b,3.6s**	**91**	**2-146**
BJI	III	30 03 23 55.6	0.20S	96.60E	10	4.9b,4.5b		**¶16401467**
IDC	III	30 03 23 56.5–.61	0.19S	96.49E	0	4.3,4.2L		
NEIC	III	30 03 23 58.9–4.9	0.16S	96.59E	16–29	4.4b,4.2L		
ISCJB	III	30 03 23 59.0–.32	0.20S–.03	96.69E–.03	32	4.2b,3.5s		
DJA	III	30 03 24 01.1–.70	0S–3.0	97E–6.0	66–12	6.0b,5.7		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(229) Off east coast of Honshu

ISC	**III**	**30 05 29 55.2–.36**	**36.18N–.03**	**142.52E–.03**	**31–2**	**5.9s,5.5b**	**1485**	**1-165**
NIED	III	30 05 29 00	36.10N	142.50E	5	5.8W,5.5b		**¶16391176**
IDC	III	30 05 29 49.8–.40	36.02N	142.58E	0	5.7,5.6		
BJI	III	30 05 29 49.8	36.20N	142.55E	30	6.4s,6.2		
ISCJB	III	30 05 29 50.7–.55	36.12N–.02	142.51E–.01	12–3	5.9s,5.5b		
NEIC	III	30 05 29 52.5–.12	36.14N	142.46E	11	5.8,5.8W		
JMA	III	30 05 29 52.6–.20	36.12N	142.47E	80	6.3,5.8W		
MOS	III	30 05 29 54.9–.95	36.40N	142.43E	33	5.9s,5.7b		
NEIC	III	30 05 29 55.0–.00	36.13N	142.83E	30	5.9s,5.7b		
GCMT	III	30 05 29 56.5–.10	36.09N	142.63E	12	5.8W,5.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ36.00000°,λ89.00000°. NP2:ϕ_s33.00000°,δ54.00000°,λ90.00000°. $M_0$5.01000×10^{17}
IDC Error ellipse: s-maj=11.1km s-min=9.8km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=167.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=143.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s77 Moment tensor: Scale 10^{17}Nm; M_{rr}5.82 $M_{\theta\theta}$-2.70 $M_{\phi\phi}$-3.13 $M_{r\theta}$1.18 $M_{\theta\phi}$-3.05 $M_{\phi r}$2.73 Best double couple: NP1:ϕ_s232.00000°,δ33.00000°,λ105.00000°. NP2:ϕ_s34.00000°,δ58.00000°,λ81.00000°. Principal axes: T 6.6000,Plg75.0000°,Azm278.0000°; N 0.0000,Plg8.0000°,Azm39.0000°; P -6.6000,Plg13.0000°,Azm131.0000° $M_0$6.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s279.00000°,δ41.00000°,λ131.00000°. NP2:ϕ_s50.00000°,δ60.00000°,λ60.00000°. Principal axes: T Plg62.0000°,Azm271.0000°; N Plg0.0000°,Azm0.0000°; P Plg10.0000°,Azm161.0000°
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=111.1.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.47 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$-1.81 $M_{r\theta}$1.87 $M_{\theta\phi}$-1.06 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s39.00000°,δ68.00000°,λ87.00000°. NP2:ϕ_s225.00000°,δ23.00000°,λ96.00000°. Principal axes: T 4.7900,Plg67.0000°,Azm303.0000°; N -0.6900,Plg2.0000°,Azm39.0000°; P -4.1000,Plg22.0000°,Azm130.0000° $M_0$4.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c247; s141,c426;Duration: 1⁋8 Moment tensor: Scale 10^{17} Nm; M_{rr}5.51±.03 $M_{\theta\theta}$-2.11±.03; $M_{\phi\phi}$-3.40±.04; $M_{r\theta}$-0.07±.09; $M_{\theta\phi}$-2.08±.03; $M_{\phi r}$0.86±.10; Best double couple: NP1:ϕ_s31.00000°,δ49.00000°,λ83.00000°. NP2:ϕ_s221.00000°,δ42.00000°,λ98.00000°. Principal axes: T 5.6030,Plg84.0000°,Azm250.0000°; N -0.6290,Plg5.0000°,Azm36.0000°; P -4.9730,Plg4.0000°,Azm126.0000° $M_0$5.28800×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**30 12 51 38.0–.41**	**35.44N–.03**	**141.14E–.03**	**22–2**	**5.3b,4.8s**	**1019**	**0-155**
NIED	III	30 12 51 00	35.50N	141.20E	32	5.1W,4.8s		**¶602443950**
BJI	III	30 12 51 33.8	35.38N	141.28E	24	5.0b,4.9b		
IDC	III	30 12 51 34.4–.33	35.39N	141.03E	0	5.2,5.2		
NEIC	III	30 12 51 36.6–.09	35.40N	141.01E	12	5.3b,5.1W		
GCMT	III	30 12 51 36.6–.30	35.47N	141.17E	23–3	5.2W,5.1W		
ISCJB	III	30 12 51 37.5–.46	35.37N–.02	141.07E–.02	31–3	5.2b,4.8s		
JMA	III	30 12 51 37.1–.10	35.44N	141.23E	30–1	5.3,4.8s		
MOS	III	30 12 51 42.2–.82	35.77N	140.93E	55	5.5b,4.9s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ15.00000°,λ87.00000°. NP2:ϕ_s85.00000°,δ75.00000°,λ91.00000°. $M_0$4.32000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=8.1km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=137.0. Felt at Narita and Tokyo. Recorded [3 JMA] in Chiba and Saitama. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.40 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$1.65 $M_{r\theta}$5.66 $M_{\theta\phi}$1.70 $M_{\phi r}$0.72 Best double couple: NP1:ϕ_s349.00000°,δ21.00000°,λ-17.00000°. NP2:ϕ_s258.00000°,δ90.00000°,λ-69.00000°. Principal axes: T 5.5800,Plg41.0000°,Azm328.0000°; N 0.9900,Plg21.0000°,Azm77.0000°; P -6.5800,Plg42.0000°,Azm187.0000° $M_0$6.10000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s51,c65; Duration: 1⁋0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.59±.22 $M_{\theta\theta}$-2.25±.17; $M_{\phi\phi}$0.66±.15; $M_{r\theta}$7.42±1.04; $M_{\theta\phi}$-1.47±.12; $M_{\phi r}$0.41±.27; Best double couple: NP1:ϕ_s87.00000°,δ83.00000°,λ100.00000°. NP2:ϕ_s215.00000°,δ12.00000°,λ38.00000°. Principal axes: T 7.3850,Plg52.0000°,Azm8.0000°; N 0.8360,Plg10.0000°,Azm266.0000°; P -8.2190,Plg37.0000°,Azm169.0000° $M_0$7.80200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.5km az=163.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=116.8.

(201) Irian Jaya

ISC	**III**	**30 15 02 39.7–.53**	**3.53S–.06**	**140.14E–.09**	**56**	**3.9b,3.7s**	**32**	**1-146**
DJA	III	30 15 02 38.9–.80	4S–4.0	140E–5.0	27–9	6.0b,5.6		**¶16475841**
ISCJB	III	30 15 02 38.3–.44	3.56S–.04	140.20E–.06	56	4.2b,3.7s		
IDC	III	30 15 02 39.4–1.4	3.48S	140.16E	44–16	4.1,4.1		
NEIC	III	30 15 02 40.1–.88	3.49S	140.21E	53–9	4.1b,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.8km az=10.9.
IDC Error ellipse: s-maj=20.0km s-min=10.8km az=103.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=9.4km az=57.0.

(181) Fiji Islands region

ISC	**III**	**31 00 11 58.9–.42**	**16.55S–.04**	**177.39W–.04**	**19–1**	**6.3s,5.7b**	**1674**	**5-177**
IDC	III	31 00 11 54.8–.41	16.47S	177.44W	0	6.2,6.2s		**¶16459655**
BJI	III	31 00 11 55.1	16.70S	177.50W	10	6.3s,6.1		
NEIC	III	31 00 11 57.0–.00	16.15S	177.53W	15	6.3s,6.1		
ISCJB	III	31 00 11 57.8–.10	16.64S–.03	177.53W–.02	22	6.3s,5.6b		
GCMT	III	31 00 11 58.3–.00	16.54S	177.34W	15–0	6.4W,5.6b		
NEIC	III	31 00 11 58.3–1.1	16.54S	177.52W	16–6	6.4W,6.4W		
MOS	III	31 00 12 00.3–1.7	16.38S	177.67W	33	6.2s,5.8b		

ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=11.8km az=129.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13 $M_{\theta\theta}$-2.81 $M_{\phi\phi}$2.68 $M_{r\theta}$-0.18 $M_{\theta\phi}$0.50 $M_{\phi r}$-1.00 Best double couple: NP1:ϕ_s232.00000°,δ78.00000°,λ15.00000°. NP2:ϕ_s139.00000°,δ75.00000°,λ168.00000°. Principal axes: T 3.0700,Plg18.0000°,Azm95.0000°; N -0.2100,Plg70.0000°,Azm269.0000°; P -2.8600,Plg1.0000°,Azm4.0000° $M_0$3.00000×10^{18}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.5km az=154.6.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c334; s145,c601;Duration: 3⁋7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.03±.02 $M_{\theta\theta}$-4.22±.02; $M_{\phi\phi}$4.20±.02; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$0.55±.04; Best double couple: NP1:ϕ_s49.00000°,δ85.00000°,λ6.00000°. NP2:ϕ_s319.00000°,δ84.00000°,λ175.00000°. Principal axes: T 4.3130,Plg7.0000°,Azm274.0000°; N -0.0450,Plg83.0000°,Azm89.0000°; P -4.2620,Plg1.0000°,Azm184.0000° $M_0$4.28800×10^{18}
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=142.0. Moment Tensor Solution. M_9.40000×10^{18} Moment Tensor Solution. s50 Moment tensor: Scale 10^{18}Nm; M_{rr}1.28 $M_{\theta\theta}$-4.75 $M_{\phi\phi}$3.47 $M_{r\theta}$-0.11 $M_{\theta\phi}$1.40 $M_{\phi r}$-0.24 Best double couple: NP1:ϕ_s144.00000°,δ85.00000°,λ176.00000°. NP2:ϕ_s235.00000°,δ86.00000°,λ5.00000°. Principal axes: T 3.7200,Plg6.0000°,Azm99.0000°; N 1.2600,Plg84.0000°,Azm273.0000°; P -4.9800,Plg1.0000°,Azm9.0000° $M_0$4.50000×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=6.4km az=58.9.

(259) Mindanao

ISC	**III**	**31 06 18 34.7–.64**	**5.65N–.04**	**126.64E–.06**	**57–4**	**4.8b,4.0s**	**249**	**1-130**
MAN	III	31 06 18 25	5.33N	126.80E	3	5.5b,4.7s		**¶16399896**
IDC	III	31 06 18 26.8–.44	5.69N	126.47E	0	4.6,4.6b		
BJI	III	31 06 18 30.9	5.05N	126.39E	55	5.0b,4.8b		
MOS	III	31 06 18 30.7–1.1	5.76N	126.50E	36	5.2b,4.8b		
ISCJB	III	31 06 18 34.3–.56	5.68N–.03	126.58E–.04	69–4	4.7b,4.8b		
NEIC	III	31 06 18 36.1–.70	5.69N	126.56E	70–6	4.8b,4.8b		

ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=10.6km az=76.0.
MOS Error ellipse: s-maj=12.6km s-min=6.0km az=113.3.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.1km az=166.6.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.3km az=72.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 07 15 29.7–.33**	**38.92N–.03**	**142.02E–.03**	**42–2**	**5.9b,5.6s**	**2067**	**0-159**
NIED	III	31 07 15 00	38.90N	142.10E	50	6.0W,5.6s		**¶16399899**
BJI	III	31 07 15 25.9	38.85N	142.15E	40	6.0s,5.9		
MOS	III	31 07 15 28.5–.89	39.09N	141.92E	37	6.1b,5.6s		
JMA	III	31 07 15 29.6–.10	38.87N	142.08E	47–1	6.1,5.6s		
ISCJB	III	31 07 15 29.7–.28	38.89N–.02	141.93E–.01	53–2	5.8b,5.7s		
GCMT	III	31 07 15 30.2–.10	38.97N	142.05E	50–0	6.0W,5.7s		
IDC	III	31 07 15 30.1–1.2	38.89N	142.01E	45–10	5.7,5.5		
NEIC	III	31 07 15 30.0–.00	38.75N	142.42E	39	5.7,5.5		
NEIC	III	31 07 15 30.2–.08	38.92N	141.82E	42	6.1W,6.0W		
NEIC	III	31 07 15 52.5–.00	39.16N	140.84E	42	6.1W,6.0W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ21.00000°,λ68.00000°. NP2:ϕ_s25.00000°,δ70.00000°,λ98.00000°. $M_0$1.13000×10^{18}
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=92.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=161.4.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c307; s138,c444;Duration: 2⁋6 Moment tensor: Scale 10^{18} Nm; M_{rr}1.07±.01 $M_{\theta\theta}$-0.00±.01; $M_{\phi\phi}$-1.07±.01; $M_{r\theta}$0.42±.01; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$0.84±.01; Best double couple: NP1:ϕ_s22.00000°,δ65.00000°,λ98.00000°. NP2:ϕ_s183.00000°,δ26.00000°,λ73.00000°. Principal axes: T 1.4320,Plg69.0000°,Azm307.0000°; N 0.0230,Plg7.0000°,Azm198.0000°; P -1.4580,Plg20.0000°,Azm106.0000° $M_0$1.44500×10^{18}
IDC Error ellipse: s-maj=10.4km s-min=7.9km az=101.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ69.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ21.00000°,λ91.00000°. Principal axes: T 1.2500,Plg65.0000°,Azm289.0000°; N -0.0600,Plg0.0000°,Azm19.0000°; P -1.1900,Plg24.0000°,Azm109.0000°
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=147.0. Felt [III] at Misawa. Also felt at Tokyo and Yokosuka and at Sapporo, Hokkaido. Recorded [5L JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s89 Moment tensor: Scale 10^{18}Nm; M_{rr}1.07 $M_{\theta\theta}$0.19 $M_{\phi\phi}$-1.25 $M_{r\theta}$0.52 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s180.00000°,δ26.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ66.00000°,λ101.00000°. Principal axes: T 1.5000,Plg67.0000°,Azm315.0000°; N 0.2500,Plg10.0000°,Azm201.0000°; P -1.7500,Plg21.0000°,Azm108.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{18}Nm; M_{rr}1.11 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-0.98 $M_{r\theta}$0.57 $M_{\theta\phi}$-0.24 $M_{\phi r}$0.04 Best double couple: NP1:ϕ_s176.00000°,δ44.00000°,λ59.00000°. NP2:ϕ_s36.00000°,δ54.00000°,λ116.00000°. Principal axes: T 1.3300,Plg68.0000°,Azm3.0000°; N -0.2700,Plg21.0000°,Azm200.0000°; P -1.0600,Plg6.0000°,Azm108.0000° $M_0$1.20000×10^{18}

(211) Southeast of Honshu

ISC	**III**	**31 07 36 31.1–.75**	**32.56N–.04**	**142.68E–.04**	**23–5**	**4.8b,4.8s**	**716**	**2-152**
IDC	III	31 07 36 27.2–.38	32.47N	142.69E	0	4.6,4.5		**¶16399900**
ISCJB	III	31 07 36 27.0–1.0	32.47N–.03	142.59E–.02	6–6	4.8b,4.7s		

GCMT III 31 07 36 31.2–.60 32.60N 142.64E 15 5.1W,4.7s
NEIC III 31 07 36 31.2–1.6 32.43N 142.62E 23–11 4.9b,4.7s
MOS III 31 07 36 32.8–.86 32.84N 142.64E 33 5.0b,4.7s
JMA III 31 07 36 32.1–.30 32.62N 142.47E 46 4.6,4.7s
BJI III 31 07 36 35.3 32.70N 142.01E 38 5.5b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=9.8km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=5.7.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c10; s74,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.89±.20 $M_{\theta\theta}$-0.12±.17; $M_{\phi\phi}$3.01±.15; $M_{r\theta}$2.82±.77; $M_{\theta\phi}$-0.60±.13; $M_{\phi r}$3.18±.60; Best double couple: NP1:ϕ_s207.00000°,δ74.00000°,λ-69.00000°. NP2:ϕ_s332.00000°,δ26.00000°,λ-142.00000°. Principal axes: T 4.4890,Plg26.0000°,Azm280.0000°; N 1.2230,Plg20.0000°,Azm20.0000° ; P -5.7110,Plg56.0000°,Azm144.0000° M_o5.10000×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=129.0.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=110.3.
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.

(181) Fiji Islands region

ISC III 31 07 44 22.3–.52 16.7S–.10 177.47W–.09 35 4.8b,4.8s 99 4-176
IDC III 31 07 44 15.3–.91 16.91S 177.21W 0 4.7,4.7s **¶16399901**
ISCJB III 31 07 44 20.9–.33 16.62S–.08 177.61W–.06 33 4.8s,4.8b
BJI III 31 07 44 20.5 16.73S 177.32W 36 5.5b,5.2s
NEIC III 31 07 44 22.5–.35 16.57S 177.58W 35 4.8b,5.2s
GCMT III 31 07 44 22.5–.30 16.55S 177.31W 13–1 5.3W,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=42.3km s-min=14.4km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=5.6km az=153.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=7.2km az=148.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s100,c145; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.04 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.49±.03; $M_{r\theta}$-0.05±.06; $M_{\theta\phi}$0.72±.03; $M_{\phi r}$0.73±.14; Best double couple: NP1:ϕ_s339.00000°,δ82.00000°,λ143.00000°. NP2:ϕ_s75.00000°,δ53.00000°,λ10.00000°. Principal axes: T 1.2390,Plg31.0000°,Azm290.0000°; N -0.1260,Plg52.0000°,Azm149.0000° ; P -1.1140,Plg19.0000°,Azm32.0000° M_o1.17600×10^{17}

(282) South of Jawa

ISC IV 01 04 32 37.4–1.7 11.7S–.10 111.82E–.09 35 3.5b 19 4-64
ISCJB IV 01 04 32 36.0–.85 11.66S–.07 111.83E–.06 35 3.6b **¶17199380**
DJA IV 01 04 32 39.2–.40 11S–3.0 112E–3.0 25 5.6b,5.1
IDC IV 01 04 32 40.0–3.2 11.21S 112.99E 0 4.6L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.4km az=41.0.
IDC Error ellipse: s-maj=161.3km s-min=20.9km az=45.0.

(228) Near east coast of eastern Honshu

ISC IV 01 11 57 53.8–.28 39.38N–.02 142.03E–.03 40–1 5.9b,5.5s 2155 0-159
NIED IV 01 11 57 00 39.30N 142.20E 50 5.9W,5.5s **¶16403135**
BJI IV 01 11 57 49.8 39.18N 142.26E 39 5.9b,5.7
MOS IV 01 11 57 52.9–.85 39.49N 141.96E 35 6.2b,5.8s
ISCJB IV 01 11 57 53.8–.26 39.31N–.01 142.01E–.01 50–2 5.8b,5.5s
NEIC IV 01 11 57 54.4–.07 39.32N 141.95E 41 6.0W,5.9
JMA IV 01 11 57 54.6–.10 39.34N 142.17E 45–1 6.0,5.9
GCMT IV 01 11 57 54.4–.10 39.38N 142.17E 48–0 5.9W,5.9
NEIC IV 01 11 57 54.0–.00 39.35N 142.18E 38 5.9W,5.9
IDC IV 01 11 57 55.4–1.2 39.32N 142.06E 51–10 5.7,5.5
NEIC IV 01 11 58 10.6–.00 39.42N 142.17E 42 5.7,5.5
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ69.00000°. NP2:ϕ_s28.00000°,δ68.00000°,λ99.00000°. M_o8.59000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=101.7.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=158.8.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=147.0. Felt [IV] at Misawa. Recorded [4 JMA] in Aomori, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ102.00000°. Principal axes: T 1.1200,Plg65.0000°,Azm317.0000° ; N -0.0900,Plg11.0000°,Azm203.0000°; P -1.0300,Plg23.0000°,Azm108.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s264.00000°,δ38.00000°,λ137.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ60.00000°. Principal axes: T Plg59.0000° ,Azm257.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000°,Azm141.0000°
JMA Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c270; s136,c413;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.76±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.33±.01; $M_{\theta\phi}$-0.16±.01; $M_{\phi r}$0.57±.01; Best double couple: NP1:ϕ_s24.00000°,δ66.00000°,λ99.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ70.00000°. Principal axes: T 1.0240,Plg68.0000°,Azm312.0000°; N -0.0250,Plg9.0000°,Azm200.0000° ; P -0.9980,Plg20.0000°,Azm106.0000° M_o1.01100×10^{18}
NEIC Event type se. Moment Tensor Solution. s51 Moment tensor: Scale 10^{17}Nm; M_{rr}5.04 $M_{\theta\theta}$-1.29 $M_{\phi\phi}$-3.75 $M_{r\theta}$2.28 $M_{\theta\phi}$-0.82 $M_{\phi r}$5.98 Best double couple: NP1:ϕ_s20.00000°,δ72.00000°,λ91.00000°. NP2:ϕ_s195.00000°,δ18.00000°,λ86.00000°. Principal axes: T 8.3600,Plg62.0000°,Azm292.0000°; N -1.0500,Plg1.0000°,Azm199.0000° ; P -7.3100,Plg27.0000°,Azm108.0000° M_o7.90000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=8.0km az=76.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ22.00000°,λ77.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ95.00000°. Principal axes: T 1.0400,Plg66.0000°,Azm298.0000°; N -0.0300,Plg5.0000°,Azm198.0000° ; P -1.0100,Plg24.0000°,Azm106.0000°

(742) Western Indian-Antarctic Ridge

ISC IV 01 14 12 58.0–.38 49.84S–.07 117.8E–.10 10 4.9b 75 15-158
ISCJB IV 01 14 12 56.3–.31 49.86S–.05 117.8E–.10 10 5.5s,4.7b **¶16403915**
IDC IV 01 14 12 57.0–.50 49.68S 117.60E 0 4.7,4.6
NEIC IV 01 14 12 58.0–.37 49.77S 117.84E 10 4.9b,4.6
BJI IV 01 14 12 57.4 50.11S 117.46E 24 5.5s,5.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=7.3km az=10.6.
IDC Error ellipse: s-maj=20.6km s-min=16.4km az=121.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=10.0km az=112.0.

(228) Near east coast of eastern Honshu

ISC IV 01 14 44 35.3–.33 36.29N–.03 141.62E–.03 35–1 5.4b,5.0s 1214 1-161
NIED IV 01 14 44 00 36.20N 141.70E 23 5.3W,5.0s **¶16403147**
IDC IV 01 14 44 30.2–.34 36.24N 141.52E 0 5.0,5.0
ISCJB IV 01 14 44 32.5–.56 36.26N–.02 141.57E–.02 23–3 5.3b,5.0s
BJI IV 01 14 44 32.5 36.27N 141.43E 21 5.3b,5.2s
JMA IV 01 14 44 32.5–.20 36.24N 141.65E 63–4 5.2,5.2s
MOS IV 01 14 44 33.7–1.1 36.26N 141.49E 32 5.6b,5.2s
GCMT IV 01 14 44 35.1–.40 36.20N 141.54E 25 5.3W,5.2s
NEIC IV 01 14 44 35.1–.46 36.23N 141.50E 31–3 5.4b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ12.00000°,λ82.00000°. NP2:ϕ_s12.00000°,δ78.00000°,λ92.00000°. M_o8.54000×10^{16}
IDC Error ellipse: s-maj=10.2km s-min=7.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=170.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=111.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s73,c104; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.56±.04 $M_{\theta\theta}$-0.08±.03; $M_{\phi\phi}$-0.48±.03; $M_{r\theta}$-0.01±.07; $M_{\theta\phi}$0.04±.02; $M_{\phi r}$1.11±.05; Best double couple: NP1:ϕ_s359.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s173.00000°,δ13.00000°,λ84.00000°. Principal axes: T 1.2660,Plg58.0000°,Azm271.0000°; N -0.0750,Plg1.0000°,Azm179.0000° ; P -1.1910,Plg32.0000°,Azm88.0000° M_o1.22900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=146.0.

(229) Off east coast of Honshu

ISC IV 01 17 03 46.8–.34 40.34N–.03 143.33E–.03 27–2 5.4b,5.2s 1091 1-161
NIED IV 01 17 03 00 40.30N 143.50E 20 5.6W,5.2s **¶16403151**
IDC IV 01 17 03 42.6–.41 40.24N 143.39E 0 5.1,5.1s
JMA IV 01 17 03 43.3–.40 40.30N 143.37E 3–3 5.5,5.1s
BJI IV 01 17 03 44.5 40.22N 143.13E 19 5.6b,5.6s
ISCJB IV 01 17 03 45.4–.56 40.33N–.02 143.25E–.02 23–3 5.3b,5.2s
NEIC IV 01 17 03 46.4–.46 40.28N 143.21E 20–3 5.5W,5.4b
MOS IV 01 17 03 46.7–1.0 40.41N 143.19E 29 5.6b,5.4s
GCMT IV 01 17 03 46.4–.10 40.27N 143.54E 22–0 5.6W,5.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ28.00000°,λ35.00000°. NP2:ϕ_s36.00000°,δ75.00000°,λ114.00000°. M_o2.54000×10^{17}
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=146.0. Recorded [3 JMA] in Aomori. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-1.08 $M_{r\theta}$0.93 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.55 Best double couple: NP1:ϕ_s163.00000°,δ18.00000°,λ47.00000°. NP2:ϕ_s28.00000°,δ77.00000°,λ103.00000°. Principal axes: T 2.0500,Plg56.0000°,Azm315.0000°; N 0.0400,Plg12.0000°,Azm205.0000° ; P -2.0900,Plg31.0000°,Azm108.0000° M_o2.10000×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=106.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c172; s129,c302;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.95±.04 $M_{\theta\theta}$-0.10±.02; $M_{\phi\phi}$-1.85±.03; $M_{r\theta}$0.88±.05; $M_{\theta\phi}$-0.41±.02; $M_{\phi r}$2.09±.06; Best double couple: NP1:ϕ_s20.00000°,δ70.00000°,λ95.00000°. NP2:ϕ_s185.00000°,δ21.00000°,λ76.00000°. Principal axes: T 3.0090,Plg65.0000°,Azm299.0000°; N -0.0470,Plg5.0000°,Azm198.0000° ; P -2.9650,Plg25.0000°,Azm106.0000° M_o2.98700×10^{17}

(135) Near coast of central Chile

ISC IV 02 00 28 53.7–1.0 34.07S–.03 72.23W–.05 20–4 4.7b,4.3s 212 0-176
ISCJB IV 02 00 28 52.7–.82 34.09S–.03 72.30W–.04 21–6 4.7b,4.2s **¶16403919**
NEIC IV 02 00 28 52.0 34.08S 72.25W 17 4.9L,4.8b
GUC IV 02 00 28 52.9–.28 34.08S 72.25W 17–1 4.9L,4.8b
BJI IV 02 00 28 53.6 34.81S 71.29W 27 5.6s,5.4
IDC IV 02 00 28 55.7–4.5 34.06S 72.10W 30–32 4.4,4.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=11.0.
NEIC Event type fe. Felt [III] at Navidad and San Antonio; [II] at Rancagua, Santiago and Talca. Also felt at Quilpue. After GUC.
GUC Error ellipse: s-maj=0.8km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=13.6km az=82.0.

(228) Near east coast of eastern Honshu

ISC IV 03 07 38 45.6–.28 37.59N–.03 141.57E–.03 57–2 5.3b,4.7s 1184 1-157
NIED IV 03 07 38 00 37.60N 141.60E 53 5.3W,4.7s **¶602567221**
MOS IV 03 07 38 41.9–.80 37.65N 141.43E 32 5.5b,4.7s
BJI IV 03 07 38 41.9 37.52N 141.74E 55 5.2b,5.0b
ISCJB IV 03 07 38 45.7–.26 37.66N–.02 141.48E–.02 64–2 5.3b,5.0b
IDC IV 03 07 38 45.9–.45 37.65N 141.53E 57–4 4.9,4.7
JMA IV 03 07 38 45.1 37.63N 141.65E 47–2 5.4,4.7
GCMT IV 03 07 38 46.5–.10 37.72N 141.57E 54–0 5.2W,4.7
NEIC IV 03 07 38 46.5–.38 37.64N 141.45E 59–3 5.4b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ38.00000°,λ107.00000°. NP2:ϕ_s197.00000°,δ54.00000°,λ77.00000°. M_o9.16000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=102.7.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=155.8.
IDC Error ellipse: s-maj=9.6km s-min=7.8km az=101.0.
JMA Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c155; s110,c184; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.02 $M_{\theta\theta}$-0.19±.01; $M_{\phi\phi}$-0.68±.01; $M_{r\theta}$0.10±.01; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$-0.26±.01; Best double couple: NP1:ϕ_s194.00000°,δ52.00000°,λ76.00000°. NP2:ϕ_s37.00000°,δ40.00000°,λ108.00000°. Principal axes: T 0.9380,Plg77.0000°,Azm53.0000°; N -0.0820,Plg11.0000°,Azm203.0000° ; P -0.8580,Plg6.0000°,Azm294.0000° M_o0.89800×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=138.0. Recorded [4 JMA] in Fukushima and Miyagi.

(706) Northern Sumatera

ISC IV 03 11 05 37.0–1.1 3.41N–.05 97.80E–.04 17–7 4.1b 35 0-68
ISCJB IV 03 11 05 36.6–.70 3.35N–.04 97.85E–.05 27–6 3.9b,3.1s **¶17199649**
IDC IV 03 11 05 36.9–4.3 3.14N 97.79E 22–26 3.9,3.8
DJA IV 03 11 05 37.5–.30 3N–2.0 98E–3.0 10 5.3b,4.8
KLM IV 03 11 05 40.8 3.36N 97.96E 36 6.0s,4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=142.7.
IDC Error ellipse: s-maj=47.9km s-min=16.0km az=49.0.

(248) Philippine Islands region

ISC IV 03 18 28 27.2–.61 13.09N–.03 120.01E–.04 57–5 4.5b,3.5s 153 1-120
IDC IV 03 18 28 19.5–.50 13.21N 120.11E 0 4.5,4.4b **¶16405110**
MAN IV 03 18 28 23 13.11N 119.89E 50 5.4b,4.7s
BJI IV 03 18 28 24.4 12.99N 120.12E 63 4.8b,4.5b
ISCJB IV 03 18 28 25.7–.40 13.14N–.03 120.05E–.03 59–4 4.6b,3.5s
NEIC IV 03 18 28 26.0–1.5 13.17N 119.99E 50–14 4.8b,3.5s
BKK IV 03 18 28 27.2–.60 14N–5.0 120E–6.0 10 5.5b,5.1
DJA IV 03 18 28 29.9–.50 14N–5.0 119E–6.0 10 6.0b,5.6
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Manila, Luzon.

(282) South of Jawa

ISC IV 03 20 06 43.3–.35 9.73S–.02 107.77E–.03 32–2 6.3b,6.3s 2080 2-178
IDC IV 03 20 06 38.5–.29 9.74S 107.82E 0 6.1s,6.1 **¶16405115**
ISCJB IV 03 20 06 39.8–.49 9.84S–.02 107.77E–.01 18–3 6.3s,6.2b
GCMT IV 03 20 06 40.4–.10 10.10S 107.72E 21–0 6.7W,6.2b
NEIC IV 03 20 06 40.4–.13 9.85S 107.69E 14 6.7,6.7W
BJI IV 03 20 06 40.9 9.85S 107.80E 20 6.7s,6.5
DJA IV 03 20 06 40.5–.10 10S–1.0 108E–1.0 10 8.0,6.8b
MOS IV 03 20 06 41.9–1.0 9.72S 107.89E 33 6.3b,6.1s
NEIC IV 03 20 06 42.0–.00 10.19S 107.95E 24 6.3b,6.1s
KLM IV 03 20 06 42.6 9.94S 107.57E 55 7.5s,6.7b
ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=34.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c320; s139,c602;Duration: 5s7 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.18±.01 $M_{\theta\theta}$1.42±.01; $M_{\phi\phi}$-0.23±.01; $M_{r\theta}$0.27±.01; $M_{\theta\phi}$-0.89±.01; $M_{\phi r}$-0.30±.02; Best double couple: NP1:ϕ_s307.00000°,δ53.00000°,λ-72.00000°. NP2:ϕ_s98.00000°,δ40.00000°,λ-112.00000°. Principal axes: T 1.8540,Plg7.0000°,Azm24.0000° ; N -0.5850,Plg14.0000°,Azm116.0000°; P -1.2660,Plg74.0000°,Azm269.0000° M_o1.56000×10^{19}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=214.0. Felt [V] at Tasikmalaya and Wonosobo; [IV] at Cilacap and Pangandaran; [III] at Bandung, Bogor and Sleman; [II] at Cisarua, Jakarta, Karangkates, Purworejo and Yogyakarta. Felt [II] at Denpasar, Kuta and Ubud, Bali. Felt in much of Bali and Java. Also felt in Singapore. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s183.00000°,δ46.00000°,λ-36.00000°. NP2:ϕ_s300.00000°,δ65.00000°,λ-130.00000°. Principal axes: T Plg11.0000° ,Azm58.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm162.0000°
MOS Error ellipse: s-maj=7.5km s-min=4.3km az=120.2.
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.21 $M_{\theta\theta}$1.16 $M_{\phi\phi}$0.05 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.66 $M_{\phi r}$-0.08 Best double couple: NP1:ϕ_s290.00000°,δ53.00000°,λ-96.00000°. NP2:ϕ_s121.00000°,δ37.00000°,λ-81.00000°. Principal axes: T 1.5200,Plg8.0000°,Azm24.0000°; N -0.2500,Plg5.0000°,Azm293.0000° ; P -1.2700,Plg80.0000°,Azm171.0000° M_o1.40000×10^{19}

(143) Off coast of southern Chile

ISC IV 04 07 54 34.5–.52 45.59S–.05 76.65W–.05 17–2 5.3b,4.9s 559 3-177
GUC IV 04 07 54 27.5–.36 45.45S 76.72W 10 5.3W,4.9s **¶16506185**
ISCJB IV 04 07 54 32.0–1.8 45.58S–.04 76.61W–.04 10–10 5.2b,4.9s
IDC IV 04 07 54 31.0–.49 45.75S 76.72W 0 4.6,4.6s
NEIC IV 04 07 54 35.9–2.4 45.72S 76.61W 27–16 5.3b,4.6s
MOS IV 04 07 54 35.8–1.2 45.70S 76.65W 33 5.5b,4.6s
GCMT IV 04 07 54 35.8–.10 45.80S 77.04W 12 5.3W,4.6s
BJI IV 04 07 54 37.1 45.60S 76.60W 30 5.4s,5.2b
ISC Event type se.
GUC Error ellipse: s-maj=2.0km s-min=4.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=14.7.
IDC Error ellipse: s-maj=21.6km s-min=13.8km az=91.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=5.4km az=73.0.

MOS Error ellipse: s-maj=25.6km s-min=10.3km az=96.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c112; s119,c206; Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.12±.02 $M_{\theta\theta}$0.11±.01; $M_{\phi\phi}$1.01±.02; $M_{r\theta}$0.28±.05; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$-0.52±.05; Best double couple: NP1:ϕ_s341.00000°,δ59.00000°,λ-97.00000°. NP2:ϕ_s174.00000°,δ32.00000°,λ-79.00000°. Principal axes:
T 1.1920,Plg14.0000°,Azm76.0000°; N 0.0850,Plg6.0000°,Azm344.0000°
; P -1.2750,Plg75.0000°,Azm231.0000° $M_0$1.23300×10^{17}

(309) Nepal-India border region

ISC	**IV**	**04 11 31 41.1–.30**	**29.63N–.03**	**80.73E–.02**	**17–1**	**5.6b,5.1s**	**1238**	**0-155**
BJI	IV	04 11 31 39.0	29.75N	80.85E	10	5.5s,5.4b		**¶601129074**
ISCJB	IV	04 11 31 40.2–.53	29.73N–.02	80.79E–.01	17–3	5.6b,5.1s		
NDI	IV	04 11 31 40.9–2.6	29.59N	80.88E	9–7	5.6b,5.5L		
MOS	IV	04 11 31 40.7–.96	29.71N	80.80E	22	5.8b,5.1s		
DMN	IV	04 11 31 41.1–.32	29.89N	80.63E	10	6.0L,5.1s		
IDC	IV	04 11 31 42.3–1.5	29.63N	80.82E	24–8	5.3,5.2L		
GCMT	IV	04 11 31 42.3–.10	29.43N	80.71E	19–0	5.4W,5.2L		
NEIC	IV	04 11 31 43.0–1.1	29.70N	80.75E	26–7	5.6b,5.3W		

ISC Event type ke.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.6km az=22.7.
NDI Error ellipse: s-maj=5.5km s-min=6.6km az=-1.0.
MOS Error ellipse: s-maj=5.5km s-min=3.3km az=115.7.
DMN Event type ke. Error ellipse: s-maj=13.3km s-min=6.2km az=32.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=9.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s100,c151; s118,c240;Duration: 1τ2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.07±.02 $M_{\theta\theta}$-0.97±.02; $M_{\phi\phi}$-0.09±.02; $M_{r\theta}$1.02±.04; $M_{\theta\phi}$0.59±.01; $M_{\phi r}$0.09±.04; Best double couple: NP1:ϕ_s96.00000°,δ67.00000°,λ70.00000°. NP2:ϕ_s318.00000°,δ30.00000°,λ128.00000°. Principal axes:
T 1.5540,Plg63.0000°,Azm334.0000°; N 0.0210,Plg18.0000°,Azm104.0000°
; P -1.5700,Plg19.0000°,Azm201.0000° $M_0$1.56200×10^{17}
NEIC Event type de. Error ellipse: s-maj=3.7km s-min=2.3km az=211.0. Slight damage in western Nepal and in parts of Uttarakhand and Uttar Pradesh, India. Felt at Amargadhi, Nepalganj and as far as Gorkha. Nepal. Felt [IV] at Dehra Dun and Mohali; [III] at Chandigarh, Delhi, Ghaziabad, Gurgaon, Lucknow, New Delhi, Noida, Roorkee and Shimla; [II] at Alipur, India. Felt widely in northern India as far as Ghazipur, Jabalpur and Jaipur. Also felt at Lahore, Pakistan. Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ46.00000°,λ69.00000°. NP2:ϕ_s307.00000°,δ48.00000°,λ111.00000°. Principal axes:
T 1.0400,Plg75.0000°,Azm290.0000°; N -0.0700,Plg15.0000°,Azm113.0000°
; P -0.9700,Plg1.0000°,Azm23.0000°

(263) Talaud Islands

ISC	**IV**	**05 07 46 21.3–.62**	**3.04N–.03**	**127.18E–.04**	**29–3**	**5.3s,5.2b**	**486**	**2-168**
IDC	IV	05 07 46 16.2–.42	2.98N	127.06E	0	5.1s,5.1		**¶16409331**
BJI	IV	05 07 46 17.5	3.10N	127.10E	11	5.5s,5.3		
GCMT	IV	05 07 46 18.5–.10	3.11N	127.14E	14–0	5.6W,5.3		
NEIC	IV	05 07 46 18.5–.17	3.05N	127.08E	11	5.4W,5.3b		
MOS	IV	05 07 46 19.5–1.2	3.00N	126.96E	33	5.5b,5.3s		
ISCJB	IV	05 07 46 20.0–.76	3.13N–.02	127.16E–.02	30–5	5.3s,5.1b		
KLM	IV	05 07 46 21.3	3.18N	127.36E	45	6.2s,5.4b		
DJA	IV	05 07 46 26.1–.30	3N–2.0	127E–2.0	41–4	5.8b,5.8		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c195; s126,c261;Duration: 1τ5 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.10±.03 $M_{\theta\theta}$1.13±.03; $M_{\phi\phi}$-1.03±.04; $M_{r\theta}$1.31±.14; $M_{\theta\phi}$-2.25±.04; $M_{\phi r}$0.80±.10; Best double couple: NP1:ϕ_s258.00000°,δ83.00000°,λ-150.00000°. NP2:ϕ_s165.00000°,δ61.00000°,λ-7.00000°. Principal axes: T 2.7340,Plg15.0000°,Azm28.0000°
; N 0.3660,Plg60.0000°,Azm270.0000°; P -3.0960,Plg25.0000°,Azm125.0000°
$M_0$2.91500×10^{17}
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.01 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-0.86 $M_{r\theta}$1.49 $M_{\theta\phi}$0.15 $M_{\phi r}$0.64 Best double couple: NP1:ϕ_s140.00000°,δ24.00000°,λ-7.00000°. NP2:ϕ_s236.00000°,δ87.00000°,λ-114.00000°. Principal axes:
T 2.0700,Plg38.0000°,Azm347.0000°; N -0.6100,Plg24.0000°,Azm237.0000°
; P -1.4600,Plg43.0000°,Azm123.0000° $M_0$1.80000×10^{17}
ISCJB Event type se.

(263) Talaud Islands

ISC	**IV**	**05 07 53 33.8–.41**	**3.03N–.06**	**127.16E–.07**	**44**	**4.5b**	**57**	**2-124**
IDC	IV	05 07 53 27.2–.55	2.92N	126.89E	0	4.5,4.4		**¶16409332**
NEIC	IV	05 07 53 28.8–.25	2.95N	126.87E	10	4.7b,4.4		
DJA	IV	05 07 53 28.1–.60	3N–4.0	128E–4.0	10	6.6b,6.4		
ISCJB	IV	05 07 53 32.0–.29	3.07N–.04	127.17E–.05	44	4.5b,6.4		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(263) Talaud Islands

ISC	**IV**	**05 11 14 16.5–.41**	**3.05N–.03**	**126.98E–.03**	**28–2**	**5.6s,5.4b**	**812**	**2-168**
IDC	IV	05 11 14 11.9–.32	3.02N	126.95E	0	5.3s,5.3		**¶16411023**
BJI	IV	05 11 14 12.1	3.10N	127.00E	10	5.5,5.5b		
KLM	IV	05 11 14 13.6	3.02N	127.52E	18	6.2s,5.6b		
MOS	IV	05 11 14 15.5–1.4	3.07N	126.94E	33	5.6b,5.4s		
GCMT	IV	05 11 14 15.3–.10	3.06N	127.24E	15	5.8W,5.4s		
NEIC	IV	05 11 14 15.0–.00	3.06N	127.17E	17	5.8W,5.4s		
NEIC	IV	05 11 14 15.3–.13	3.03N	126.94E	20	5.9W,5.8		
ISCJB	IV	05 11 14 16.6–.35	3.04N–.02	126.99E–.02	43–3	5.5s,5.3b		
DJA	IV	05 11 14 20.9–.30	3N–2.0	127E–2.0	51–3	6.0,5.8b		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c235; s106,c258;Duration: 2τ0 Moment tensor: Scale 10^{17} Nm; M_{rr}3.36±.05 $M_{\theta\theta}$0.33±.04; $M_{\phi\phi}$-3.69±.05; $M_{r\theta}$1.15±.14; $M_{\theta\phi}$-2.69±.04; $M_{\phi r}$5.71±.14; Best double couple: NP1:ϕ_s12.00000°,δ73.00000°,λ77.00000°. NP2:ϕ_s230.00000°,δ21.00000°,λ126.00000°. Principal axes: T 6.5620,Plg60.0000°,Azm264.0000°
; N 1.3450,Plg12.0000°,Azm16.0000°; P -7.9040,Plg27.0000°,Azm112.0000°
$M_0$7.23300×10^{17}
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}3.20 $M_{\theta\theta}$0.30 $M_{\phi\phi}$-3.50 $M_{r\theta}$3.20 $M_{\theta\phi}$-2.40 $M_{\phi r}$6.40 Best double couple: NP1:ϕ_s26.00000°,δ76.00000°,λ91.00000°. NP2:ϕ_s203.00000°,δ14.00000°,λ87.00000°. Principal axes:
T 7.4000,Plg59.0000°,Azm297.0000°; N 1.5000,Plg0.0000°,Azm206.0000°
; P -8.9000,Plg30.0000°,Azm115.0000° $M_0$8.80000×10^{17}
NEIC Event type se. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17} Nm; M_{rr}2.05 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$-1.53 $M_{r\theta}$1.14 $M_{\theta\phi}$-1.22 $M_{\phi r}$2.01 Best double couple: NP1:ϕ_s218.00000°,δ22.00000°,λ97.00000°. NP2:ϕ_s30.00000°,δ68.00000°,λ87.00000°. Principal axes: T 3.0500,Plg67.0000°,Azm295.0000°; N 0.2900,Plg3.0000°,Azm32.0000°
; P -3.3400,Plg23.0000°,Azm123.0000° $M_0$3.20000×10^{17}
ISCJB Event type se.

(177) Kermadec Islands region

ISC	**IV**	**06 11 25 56.1–.23**	**31.55S–.03**	**177.01W–.05**	**35**	**5.4b,4.7s**	**623**	**7-173**
BJI	IV	06 11 25 50.2	30.92S	176.54W	5	5.8b,5.5b		**¶16411050**
IDC	IV	06 11 25 50.9–.33	31.29S	176.97W	0	5.3,5.2		
NEIC	IV	06 11 25 51.2–2.3	31.43S	177.10W	3–14	5.2b,5.2		
GCMT	IV	06 11 25 51.2–.20	31.27S	176.78W	14–0	5.2W,5.2		
ISCJB	IV	06 11 25 54.4–.12	31.68S–.03	177.06W–.03	33	5.4b,4.7s		
MOS	IV	06 11 25 55.4–1.1	31.34S	177.13W	33	5.2b,4.9s		

ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=14.6km az=48.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=156.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c104; s90,c152; Duration: 1τ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.02 $M_{\theta\theta}$-0.06±.01; $M_{\phi\phi}$0.75±.01; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-0.30±.03; Best double couple: NP1:ϕ_s4.00000°,δ56.00000°,λ-110.00000°. NP2:ϕ_s216.00000°,δ39.00000°,λ-64.00000°. Principal axes:
T 0.9140,Plg9.0000°,Azm108.0000°; N -0.1200,Plg16.0000°,Azm15.0000°
; P -0.7930,Plg71.0000°,Azm226.0000° $M_0$0.85400×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.4km az=41.6.
MOS Error ellipse: s-maj=10.8km s-min=8.8km az=82.8.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 13 54 51.2–.31**	**37.67N–.03**	**141.49E–.03**	**53–2**	**5.4b,4.9s**	**1273**	**1-156**
NIED	IV	06 13 54 00	37.60N	141.60E	53	5.1W,4.9s		**¶16411054**
MOS	IV	06 13 54 47.7–.80	37.66N	141.44E	32	5.6b,4.1s		
BJI	IV	06 13 54 50.1	37.61N	141.43E	61	5.3b,5.0b		
ISCJB	IV	06 13 54 51.0–.28	37.65N–.02	141.45E–.02	60–2	5.4b,4.9s		
JMA	IV	06 13 54 51.1–.10	37.63N	141.57E	46–2	5.3,4.9s		
IDC	IV	06 13 54 51.4–.38	37.66N	141.56E	52–3	5.2,5.1		
NEIC	IV	06 13 54 52.2–.32	37.65N	141.43E	60–2	5.4b,5.3W		
GCMT	IV	06 13 54 52.2–.40	37.91N	141.56E	54–1	5.2W,5.3W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ42.00000°,λ83.00000°. NP2:ϕ_s210.00000°,δ49.00000°,λ96.00000°. $M_0$5.84000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=104.2.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.0.
JMA Event type fe.
IDC Error ellipse: s-maj=10.1km s-min=7.7km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=139.0. Felt [II] at Tokyo. Also felt at Fukushima, Misawa, Musashino and Otawara. Recorded [4 JMA] in Miyagi. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-0.69 $M_{\phi\phi}$-0.38 $M_{r\theta}$0.13 $M_{\theta\phi}$0.43 $M_{\phi r}$-0.30 Best double couple: NP1:ϕ_s133.00000°,δ53.00000°,λ100.00000°. NP2:ϕ_s298.00000°,δ38.00000°,λ77.00000°. Principal axes: T 1.1200,Plg79.0000°,Azm83.0000°
; N -0.1000,Plg8.0000°,Azm308.0000°; P -1.0200,Plg8.0000°,Azm217.0000°
$M_0$1.10000×10^{17}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c67; s53,c77; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}7.51±.31 $M_{\theta\theta}$-1.84±.20; $M_{\phi\phi}$-5.68±.20; $M_{r\theta}$-0.25±.17; $M_{\theta\phi}$-1.96±.14; $M_{\phi r}$-0.46±.19; Best double couple: NP1:ϕ_s203.00000°,δ47.00000°,λ90.00000°. NP2:ϕ_s22.00000°,δ43.00000°,λ89.00000°. Principal axes:
T 7.5300,Plg88.0000°,Azm123.0000°; N -1.0170,Plg0.0000°,Azm23.0000°
; P -6.5230,Plg2.0000°,Azm293.0000° $M_0$7.02600×10^{16}

(706) Northern Sumatera

ISC	**IV**	**06 14 01 44.7–.31**	**1.63N–.02**	**97.17E–.03**	**31–1**	**6.0s,5.8b**	**1395**	**1-175**
BJI	IV	06 14 01 42.2	1.70N	97.25E	20	6.4,6.3s		**¶16411055**
NEIC	IV	06 14 01 42.6–.11	1.61N	97.09E	20	6.4,6.0W		
ISCJB	IV	06 14 01 42.3–.50	1.60N–.02	97.14E–.02	28–3	6.0s,5.8b		
NEIC	IV	06 14 01 43.0–.00	1.28N	97.15E	18	6.0s,5.8b		
IDC	IV	06 14 01 43.5–1.3	1.63N	97.29E	26–8	5.7,5.7s		
GCMT	IV	06 14 01 43.3–.10	1.40N	96.82E	24–0	5.9W,5.7s		
MOS	IV	06 14 01 43.1–.99	1.69N	97.22E	33	6.1b,5.9s		
KLM	IV	06 14 01 46.3	1.69N	97.13E	35	6.7s,6.0L		
DJA	IV	06 14 01 46.2–.40	2N–2.0	97E–2.0	36–3	6.1,6.0b		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gunungsitoli, Nias and [III] at Sibolga, Sumatra. Also felt at Kuala Lumpur, Malaysia. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s59 Moment tensor: Scale 10^{17}Nm; M_{rr}4.04 $M_{\theta\theta}$-0.86 $M_{\phi\phi}$-3.18 $M_{r\theta}$3.62 $M_{\theta\phi}$-0.46 $M_{\phi r}$-2.56 Best double couple: NP1:ϕ_s146.00000°,δ71.00000°,λ72.00000°. NP2:ϕ_s11.00000°,δ26.00000°,λ132.00000°. Principal axes: T 6.5900,Plg60.0000°,Azm30.0000°
; N -2.3700,Plg17.0000°,Azm152.0000°; P -4.2200,Plg24.0000°,Azm250.0000°
$M_0$5.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s320.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s140.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm50.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm230.0000°
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s308.00000°,δ13.00000°,λ85.00000°. Principal axes:
T 1.0700,Plg57.0000°,Azm44.0000°; N 0.0500,Plg0.0000°,Azm312.0000°
; P -1.1300,Plg32.0000°,Azm222.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c231; s113,c256;Duration: 2τ1 Moment tensor: Scale 10^{17} Nm; M_{rr}5.24±.08 $M_{\theta\theta}$-2.01±.05; $M_{\phi\phi}$-3.23±.06; $M_{r\theta}$4.30±.12; $M_{\theta\phi}$2.40±.04; $M_{\phi r}$-3.83±.12; Best double couple: NP1:ϕ_s135.00000°,δ69.00000°,λ85.00000°. NP2:ϕ_s329.00000°,δ21.00000°,λ104.00000°. Principal axes: T 7.8530,Plg65.0000°,Azm36.0000°
; N -0.2340,Plg5.0000°,Azm136.0000°; P -7.6190,Plg24.0000°,Azm229.0000°
$M_0$7.73600×10^{17}

(282) South of Jawa

ISC	**IV**	**06 20 16 53.2–.89**	**9.79S–.08**	**107.69E–.07**	**23**	**4.2b**	**28**	**2-145**
IDC	IV	06 20 16 48.0–1.5	10.27S	107.17E	0	4.5,4.3		**¶16577704**
ISCJB	IV	06 20 16 50.2–.68	9.93S–.08	107.61E–.05	23	4.2s,4.1b		
NEIC	IV	06 20 16 50.1–.69	9.90S	107.55E	10	4.0b,4.1b		
DJA	IV	06 20 16 50.4–.50	10S–5.0	108E–3.0	10	5.6b,5.1		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(263) Talaud Islands

ISC	**IV**	**06 23 49 40.2–.54**	**3.14N–.04**	**126.89E–.05**	**46–4**	**4.9b,4.2s**	**384**	**1-168**
IDC	IV	06 23 49 33.1–.36	3.06N	126.86E	0	4.7,4.7		**¶16413288**
MOS	IV	06 23 49 36.9–1.1	3.11N	126.76E	33	5.3b,4.1s		
BJI	IV	06 23 49 38.7	3.19N	126.92E	52	5.1b,4.9b		
DJA	IV	06 23 49 38.8–.80	3N–7.0	127E–5.0	10	5.4b,5.0b		
ISCJB	IV	06 23 49 40.0–.54	3.10N–.03	126.96E–.03	64–5	4.9b,5.0b		
GCMT	IV	06 23 49 41.9–.30	3.00N	127.16E	28–0	5.0W,5.0b		
NEIC	IV	06 23 49 41.7–.79	3.07N	126.98E	61–7	5.0b,5.0b		
KLM	IV	06 23 49 45.1	3.47N	127.04E	100	5.6s,4.9b		

ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=8.7km az=78.0.
MOS Error ellipse: s-maj=10.5km s-min=5.5km az=111.2.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=149.7.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c52; s59,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.78±.20 $M_{\theta\theta}$-0.03±.12; $M_{\phi\phi}$-3.74±.14; $M_{r\theta}$1.06±.21; $M_{\theta\phi}$-0.94±.09; $M_{\phi r}$1.27±.22; Best double couple: NP1:ϕ_s24.00000°,δ56.00000°,λ102.00000°. NP2:ϕ_s183.00000°,δ35.00000°,λ73.00000°. Principal axes:
T 4.1850,Plg75.0000°,Azm329.0000°; N 0.0620,Plg10.0000°,Azm197.0000°
; P -4.2410,Plg11.0000°,Azm105.0000° $M_0$4.21300×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=63.0.

(164) Off east coast of South Island

ISC	**IV**	**07 07 16 14.4–2.0**	**42.26S–.04**	**177.59E–.05**	**25–13**	**5.0b,4.0s**	**378**	**2-177**
IDC	IV	07 07 16 10.0–.48	42.18S	177.68E	0	5.7L,4.8		**¶16413299**
GCMT	IV	07 07 16 11.2–.50	42.20S	177.92E	28–0	4.9W,4.8		
NEIC	IV	07 07 16 11.2–.25	42.24S	177.64E	10	5.2L,5.1b		
BJI	IV	07 07 16 12.3	42.20S	177.50E	14	5.7b,5.6b		
ISCJB	IV	07 07 16 13.0–.29	42.23S–.02	177.49E–.03	33	5.0b,4.1s		
MOS	IV	07 07 16 13.8–1.5	42.25S	177.49E	30	5.0b,4.1s		
WEL	IV	07 07 16 15.7–.23	42.22S	177.43E	33	5.2L,4.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=16.3km az=45.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s55,c68; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.11±.18 $M_{\theta\theta}$2.32±.14; $M_{\phi\phi}$0.79±.10; $M_{r\theta}$-0.54±.19; $M_{\theta\phi}$0.69±.10; $M_{\phi r}$-0.72±.16; Best double couple: NP1:ϕ_s61.00000°,δ53.00000°,λ-98.00000°. NP2:ϕ_s255.00000°,δ38.00000°,λ-79.00000°. Principal axes:
T 2.6920,Plg8.0000°,Azm157.0000°; N 0.5780,Plg7.0000°,Azm66.0000°
; P -3.2690,Plg80.0000°,Azm295.0000° $M_0$2.98000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.5km az=106.0. Felt at Wellington. Moment Tensor Solution. s26 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.44 $M_{\theta\theta}$0.84 $M_{\phi\phi}$0.60 $M_{r\theta}$-0.13 $M_{\theta\phi}$0.30 $M_{\phi r}$-0.11 Best double couple: NP1:ϕ_s236.00000°,δ41.00000°,λ-89.00000°. NP2:ϕ_s55.00000°,δ49.00000°,λ-91.00000°. Principal axes: T 1.0500,Plg4.0000°,Azm146.0000°
; N 0.4000,Plg0.0000°,Azm56.0000°; P -1.4500,Plg86.0000°,Azm319.0000°
$M_0$1.30000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=25.2.
MOS Error ellipse: s-maj=21.9km s-min=12.7km az=129.1.
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=90.0. Felt from Taupo to Canterbury, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 32 44.1–.30**	**38.25N–.02**	**141.73E–.02**	**53–2**	**7.0s,6.8b**	**2736**	**0-164**
NIED	IV	07 14 32 00	38.20N	142.00E	68	7.1W,6.8b		**¶16413596**
BJI	IV	07 14 32 38.6	38.20N	141.90E	40	7.2,7.1s		
NEIC	IV	07 14 32 41.0–.00	38.25N	142.04E	49	7.2,7.1s		
MOS	IV	07 14 32 42.5–.96	38.29N	141.71E	49	7.3s,7.0b		
NEIC	IV	07 14 32 43.3–.09	38.28N	141.59E	42	7.1,7.1W		
JMA	IV	07 14 32 43.4–.10	38.20N	141.92E	66–1	7.2,7.1W		
GCMT	IV	07 14 32 43.3–.10	38.32N	141.85E	53–0	7.1W,7.1W		
ISCJB	IV	07 14 32 44.3–.24	38.21N–.01	141.69E–.01	63–2	6.8b,7.1W		
IDC	IV	07 14 32 48.1–1.6	38.25N	141.71E	88–13	6.9s,6.9		
NEIC	IV	07 14 33 01.5–.00	38.46N	141.66E	51	6.9s,6.9		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ40.00000°,λ81.00000°. NP2:ϕ_s211.00000°,δ50.00000°,λ97.00000°. $M_0$4.74000×10^{19}

NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{19}Nm; M_{rr}5.92 $M_{\theta\theta}$-1.85 $M_{\phi\phi}$-4.06 $M_{r\theta}$-1.43 $M_{\theta r}$-1.22 $M_{\phi r}$-0.44 Best double couple: NP1:ϕ_s213.00000° ,δ51.00000°,λ101.00000°. NP2:ϕ_s17.00000°,δ40.00000°,λ77.00000°. Principal axes: T 6.1700,Plg80.0000°,Azm172.0000°; N -1.4800,Plg8.0000°,Azm26.0000° ; P -4.7000,Plg5.0000°,Azm295.0000° M_o5.60000×10^{19}

MOS Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=105.3. Fault plane solution: P-wave C186, D37 . Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s216.00000°,δ61.00000°,λ118.00000°. NP2: ϕ_s349.00000°,δ39.00000°,λ50.00000°. Principal axes: T Plg63.0000°,Azm173.0000° ; N Plg24.0000°,Azm22.0000°; P Plg12.0000°,Azm286.0000° M_o5.40000×10^{19}

NEIC Event type de. Error ellipse: s-maj=3.0km s-min=2.2km az=140.0. Two people killed, 132 injured and several roads damaged in the Ishinomaki-Onagawa area. One person died in Yamagata when a power outage interrupted oxygen supply. Felt [VII] at Sendai, [V] at Misawa and [IV] in the Tokyo-Yokohama area. Felt [V] at Sapporo, Hokkaido. Felt widely in central and northern Honshu and in southern Hokkaido. Felt [II] at Yuzhno-Kuril'sk, Kuril Islands. Recorded [6U JMA] in Miyagi, Honshu. Complex earthquake, with at least one event occurring about 2 seconds after the onset observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o5.90000×10^{19} Moment Tensor Solution. s11 Moment tensor: Scale 10^{19}Nm; M_{rr}5.97 $M_{\theta\theta}$-2.39 $M_{\phi\phi}$-3.58 $M_{r\theta}$-0.32 $M_{\theta\phi}$-0.96 $M_{\phi r}$-1.43 Best double couple: NP1:ϕ_s205.00000°,δ53.00000°,λ87.00000°. NP2:ϕ_s31.00000° ,δ37.00000°,λ94.00000°. Principal axes: T 6.1800,Plg82.0000°,Azm99.0000° ; N -1.8800,Plg3.0000°,Azm207.0000°; P -4.3100,Plg8.0000°,Azm298.0000° M_o5.50000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ25.00000°,λ90.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm115.0000°; N Plg0.0000°,Azm0.0000°; P Plg20.0000° ,Azm295.0000°

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c387; s143,c682;Duration: 8s8 Moment tensor: Scale 10^{19} Nm; M_{rr}5.99±.02 $M_{\theta\theta}$-1.43±.01; $M_{\phi\phi}$-4.55±.02; $M_{r\theta}$-1.11±.03; $M_{\theta\phi}$-1.65±.01; $M_{\phi r}$-1.25±.03; Best double couple: NP1:ϕ_s208.00000°,δ53.00000°,λ95.00000°. NP2:ϕ_s19.00000° ,δ37.00000°,λ83.00000°. Principal axes: T 6.2480,Plg81.0000°,Azm142.0000° ; N -0.7570,Plg4.0000°,Azm25.0000°; P -5.4810,Plg8.0000°,Azm294.0000° M_o5.86500×10^{19}

ISCJB Event type de. Error ellipse: s-maj=2.1km s-min=1.6km az=154.4.

IDC Error ellipse: s-maj=9.5km s-min=6.3km az=88.0.

NEIC Event type se. Moment Tensor Solution. s151 Moment tensor: Scale 10^{19}Nm; M_{rr}6.49 $M_{\theta\theta}$-1.64 $M_{\phi\phi}$-4.85 $M_{r\theta}$-1.02 $M_{\theta\phi}$-1.76 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s210.00000° ,δ49.00000°,λ98.00000°. NP2:ϕ_s18.00000°,δ42.00000°,λ81.00000°. Principal axes: T 6.6100,Plg83.0000°,Azm174.0000°; N -0.9400,Plg6.0000°,Azm25.0000° ; P -5.6700,Plg4.0000°,Azm294.0000° M_o6.10000×10^{19}

(731) North of Honduras

ISC	**IV**	**07 20 41 55.3–.28**	**17.15N–.04**	**85.19W–.04**	**35**	**5.3s,5.2b**	**916**	**4-175**
IDC	IV	07 20 41 50.2–.50	17.19N	85.06W	0	5.2,5.2s		**¶16414231**
MOS	IV	07 20 41 50.4–1.0	17.17N	85.06W	11	5.4b,5.4s		
NEIC	IV	07 20 41 51.5–.57	17.11N	85.08W	7–3	5.9W,5.8W		
GCMT	IV	07 20 41 51.5–.10	17.22N	85.17W	15	5.9W,5.8W		
ISCJB	IV	07 20 41 53.5–.13	17.17N–.02	85.17W–.02	33	5.3s,5.2b		
BJI	IV	07 20 41 54.5	17.20N	85.10W	20	5.9s,5.6		
NEIC	IV	07 20 41 54.0–.00	17.22N	85.09W	19	5.9s,5.6		

ISC Event type fe.

IDC Error ellipse: s-maj=17.3km s-min=10.3km az=55.0.

MOS Error ellipse: s-maj=8.3km s-min=4.6km az=103.5.

NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=207.0. Felt [II] at French Harbor and Roatan. Also felt at Arizona, Guanaja, Jose Santos Guardiola, La Ceiba and Sandy Bay. Felt at Dangriga, Belize and at Chetumal, Mexico. Also felt at Santa Ana, El Salvador. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$1.84 $M_{r\theta}$0.18 $M_{\theta\phi}$8.22 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s84.00000°,δ79.00000°,λ2.00000°. NP2: ϕ_s354.00000°,δ88.00000°,λ169.00000°. Principal axes: T 8.6600,Plg9.0000°,Azm308.0000° ; N -0.1600,Plg79.0000°,Azm162.0000°; P -8.5000,Plg6.0000°,Azm39.0000° M_o8.60000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c156; s127,c280;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.10 $M_{\theta\theta}$-4.19±.10; $M_{\phi\phi}$3.83±.11; $M_{r\theta}$-0.61±.32; $M_{\theta\phi}$5.93±.08; $M_{\phi r}$3.39±.32; Best double couple: NP1: ϕ_s342.00000°,δ87.00000°,λ154.00000°. NP2:ϕ_s74.00000°,δ64.00000°,λ4.00000°. Principal axes: T 7.9780,Plg20.0000°,Azm295.0000°; N -0.0630,Plg64.0000°,Azm155.0000° ; P -7.9220,Plg15.0000°,Azm31.0000° M_o7.95000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=142.7.

NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.50 $M_{\theta\theta}$-5.70 $M_{\phi\phi}$6.20 $M_{r\theta}$0.20 $M_{\theta\phi}$2.60 $M_{\phi r}$1.80 Best double couple: NP1:ϕ_s326.00000° ,δ82.00000°,λ169.00000°. NP2:ϕ_s58.00000°,δ79.00000°,λ8.00000°. Principal axes: T 7.1000,Plg13.0000°,Azm281.0000°; N -0.9000,Plg76.0000°,Azm110.0000° ; P -6.2000,Plg1.0000°,Azm12.0000° M_o7.00000×10^{17}

(731) North of Honduras

ISC	**IV**	**07 21 06 04.0–.29**	**17.34N–.04**	**84.99W–.04**	**10**	**5.0b,4.8s**	**607**	**4-144**
CASC	IV	07 21 05 51.2–3.5	17.81N	83.72W	8	5.0b,4.5L		**¶16414233**
MOS	IV	07 21 06 02.3–.91	17.23N	85.01W	9	5.2b,4.5L		
ISCJB	IV	07 21 06 02.5–.15	17.22N–.02	85.11W–.02	10	4.9b,4.8s		
IDC	IV	07 21 06 02.7–.62	17.32N	84.93W	0	4.8,4.7		
NEIC	IV	07 21 06 03.9–1.4	17.15N	85.08W	8–9	5.0b,4.7		
BJI	IV	07 21 06 04.7	17.20N	85.10W	16	5.6s,5.5b		

ISC Event type fe.

CASC Error ellipse: s-maj=24.7km s-min=34.9km az=-1.0.

MOS Error ellipse: s-maj=9.4km s-min=4.7km az=99.0.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=41.1.

IDC Error ellipse: s-maj=19.3km s-min=11.1km az=48.0.

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=209.0. Felt at Guanaja.

(248) Philippine Islands region

ISC	**IV**	**08 18 29 17.2–.42**	**13.87N–.02**	**120.04E–.03**	**31–2**	**5.1b,4.6s**	**559**	**1-178**
BJI	IV	08 18 29 11.2	13.65N	120.28E	20	4.9b,4.9s		**¶17200272**
MOS	IV	08 18 29 15.6–.92	13.91N	120.14E	33	5.3b,4.7s		
BKK	IV	08 18 29 15.5–.30	14N–4.0	120E–4.0	10	5.5,5.2b		
IDC	IV	08 18 29 17.0–2.1	13.93N	120.22E	30–14	4.7,4.7		
MAN	IV	08 18 29 16	13.84N	119.79E	33	5.9b,5.4s		
ISCJB	IV	08 18 29 19.2–.32	13.91N–.02	120.10E–.02	65–3	5.0b,5.4s		
NEIC	IV	08 18 29 20.3–.45	13.87N	120.13E	64–4	5.1b,5.4s		
GCMT	IV	08 18 29 20.3–.20	13.99N	119.89E	21–1	5.2W,5.4s		
KLM	IV	08 18 29 20.3	13.78N	120.33E	66	5.9s,5.3b		
DJA	IV	08 18 29 26.4–.40	14N–2.0	120E–2.0	99–5	5.3b,5.3		

ISC Event type fe.

MAN Event type fe. INTENSITY IV - LOOC & LUBANG OCCIDENTAL MINDORO; INTENSITY III - PUERTO GALERA SAN TEODORO & BACO ORIENTAL MINDORO; MANILA & GUIGINTO BULACAN; MAKATI CITY; MUNTINLUPA CITY; MARIKINA CITY.

ISCJB Event type fe.

NEIC Event type fe. Felt [IV PIVS] at Looc and Lubang, Lubang Island and [III PIVS] at Abra de Ilog, Baco, Puerto Galera and San Teodoro. Felt [III PIVS] at Guiguinto, Makati, Manila, Marikina, Muntinlupa City and Quezon City, Luzon. Also felt at Olongapo, Salcedo and Tarlac.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c62; s72,c106;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.26±.26 $M_{\theta\theta}$0.79±.14; $M_{\phi\phi}$-4.05±.19; $M_{r\theta}$-0.22±.29; $M_{\theta\phi}$0.15±.09; $M_{\phi r}$-6.21±.64; Best double couple: NP1:ϕ_s182.00000°,δ75.00000°,λ92.00000°. NP2:ϕ_s353.00000°,δ15.00000°,λ81.00000°. Principal axes: T 6.8220,Plg60.0000°,Azm95.0000°; N 0.7820,Plg2.0000°,Azm1.0000° ; P -7.6010,Plg30.0000°,Azm270.0000° M_o7.21200×10^{16}

(221) Kuril Islands

ISC	**IV**	**08 18 42 29.6–.25**	**43.75N–.03**	**147.53E–.03**	**61–1**	**5.2b**	**1362**	**1-153**
NIED	IV	08 18 42 00	43.60N	147.60E	68	5.3W		**¶16414585**
ISCJB	IV	08 18 42 28.3–.30	43.69N–.02	147.58E–.02	62–2	5.2b		
MOS	IV	08 18 42 28.6–.91	43.71N	147.52E	65	5.5b,4.2s		
NEIC	IV	08 18 42 28.9–.29	43.72N	147.48E	54–2	5.3b,4.2s		
BJI	IV	08 18 42 28.7	43.90N	147.45E	59	5.2b,4.9b		
JMA	IV	08 18 42 28.9–.20	43.54N	147.53E	34	5.2,4.9b		
SKHL	IV	08 18 42 29.3–.20	43.64N	147.71E	66–4	5.8b,5.7		
GCMT	IV	08 18 42 29.0–.20	43.72N	147.56E	56–1	5.3W,5.7		
IDC	IV	08 18 42 29.9–.31	43.74N	147.49E	61–2	5.0,4.9		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ50.00000°,λ3.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ140.00000°. M_o8.98000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.1km az=166.7.

MOS Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=105.4. Felt (IV) at Malokuril'skoye, (III-IV) at Kuril'sk, (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=158.0. Felt [IV] at Kuril'sk and Shakotan and [II] at Yuzhno-Kuril'sk. Recorded [2 JMA] in eastern Hokkaido.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

SKHL Event type fe. Felt (IV) at Malokurilskoe.Kurilsk; at (II) Yushno-Kurilsk.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c105; s96,c170; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.02 $M_{\theta\theta}$0.54±.02; $M_{\phi\phi}$-0.68±.02; $M_{r\theta}$0.63±.02; $M_{\theta\phi}$-0.49±.02; $M_{\phi r}$0.26±.02; Best double couple: NP1:ϕ_s62.00000°,δ84.00000° ,λ138.00000°. NP2:ϕ_s157.00000°,δ49.00000°,λ8.00000°. Principal axes: T 1.0390,Plg33.0000°,Azm10.0000°; N 0.0150,Plg48.0000°,Azm235.0000° ; P -1.0550,Plg23.0000°,Azm116.0000° M_o1.04700×10^{17}

IDC Error ellipse: s-maj=10.1km s-min=7.4km az=161.0.

(282) South of Jawa

ISC	**IV**	**09 12 19 15.9–.90**	**9.99S–.07**	**107.69E–.10**	**23**	**3.9b**	**22**	**2-145**
IDC	IV	09 12 19 11.7–1.7	10.41S	107.42E	0	4.1,4.1L		**¶17200337**
ISCJB	IV	09 12 19 13.7–.80	10.03S–.05	107.69E–.09	23	3.8b,4.1L		
DJA	IV	09 12 19 16.1–.70	10S–4.0	108E–5.0	10	6.1b,5.8		

ISC Event type ke.

ISCJB Event type ke.

(239) Southeast of Ryukyu Islands

ISC	**IV**	**09 12 57 50.1–.33**	**30.02N–.02**	**131.85E–.02**	**26–2**	**6.0b,5.7s**	**1902**	**1-174**
NIED	IV	09 12 57 00	30.00N	131.80E	20	5.8W,5.7s		**¶16415851**
ISCJB	IV	09 12 57 46.3–.50	30.00N–.01	131.81E–.01	10–3	6.0b,5.7s		
NEIC	IV	09 12 57 47.8–.07	30.00N	131.78E	11	6.1b,6.0		
BJI	IV	09 12 57 47.0	29.90N	131.77E	24	6.0,6.0s		
GCMT	IV	09 12 57 48.8–.10	30.04N	131.84E	12–0	6.0W,6.0s		
MOS	IV	09 12 57 49.6–1.0	30.06N	131.81E	33	6.2b,5.8s		
JMA	IV	09 12 57 49.4–.10	30.02N	131.84E	62–3	5.8,5.8s		
NEIC	IV	09 12 57 49.0–.00	30.01N	132.01E	21	5.8,5.8s		
IDC	IV	09 12 57 51.5–.46	30.05N	131.83E	34–3	5.7,5.6		
NEIC	IV	09 12 58 06.6–.00	30.04N	131.89E	10	5.7,5.6		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ47.00000°,λ-121.00000°. NP2:ϕ_s210.00000°,δ51.00000°,λ-61.00000°. M_o5.88000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.7km az=135.1.

NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=119.0. Felt at Kagoshima and Makurazaki, Kyushu. Also felt at P'yongt'aek, South Korea. Recorded [3 JMA] in Kagoshima. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s198.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm288.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000° ,Azm108.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c263; s128,c462;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.04±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$1.09±.01; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$0.18±.01; $M_{\phi r}$0.35±.02; Best double couple: NP1:ϕ_s199.00000°,δ56.00000°,λ-78.00000°. NP2:ϕ_s358.00000° ,δ36.00000°,λ-107.00000°. Principal axes: T 1.1860,Plg10.0000°,Azm280.0000° ; N -0.0470,Plg10.0000°,Azm12.0000°; P -1.1420,Plg76.0000°,Azm146.0000° M_o1.16400×10^{18}

MOS Error ellipse: s-maj=6.5km s-min=3.6km az=108.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}-9.33 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$9.63 $M_{r\theta}$-1.10 $M_{\theta\phi}$1.46 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s15.00000° ,δ47.00000°,λ-80.00000°. NP2:ϕ_s182.00000°,δ44.00000°,λ-99.00000°. Principal axes: T 9.8600,Plg1.0000°,Azm98.0000°; N -0.3900,Plg6.0000°,Azm188.0000° ; P -9.4700,Plg83.0000°,Azm355.0000° M_o9.70000×10^{17}

IDC Error ellipse: s-maj=9.4km s-min=6.3km az=76.0.

NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.09 $M_{\theta\theta}$0.07 $M_{\phi\phi}$1.02 $M_{r\theta}$0.18 $M_{\theta\phi}$0.19 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s203.00000° ,δ34.00000°,λ-70.00000°. NP2:ϕ_s359.00000°,δ58.00000°,λ-103.00000°. Principal axes: T 1.1600,Plg12.0000°,Azm98.0000°; N 0.0900,Plg11.0000°,Azm6.0000° ; P -1.2500,Plg73.0000°,Azm234.0000° M_o1.20000×10^{18}

(221) Kuril Islands

ISC	**IV**	**10 12 02 59.4–.43**	**46.26N–.05**	**153.07E–.04**	**40**	**4.7b,4.1s**	**336**	**4-149**
NIED	IV	10 12 02 00	46.60N	153.30E	5	4.6W,4.1s		**¶600582762**
JMA	IV	10 12 02 53.0–.60	46.58N	153.30E	30	4.6,4.1s		
IDC	IV	10 12 02 54.0–.56	46.38N	153.03E	0	4.4,4.3		
BJI	IV	10 12 02 54.7	46.59N	153.40E	30	4.9b,4.7b		
SKHL	IV	10 12 02 57.1–.60	46.09N	153.32E	44–4	5.5b,4.8s		
MOS	IV	10 12 02 57.2–1.0	46.32N	153.00E	33	4.9b,4.0s		
ISCJB	IV	10 12 02 58.2–.20	46.29N–.04	153.03E–.03	40	4.6b,4.0s		
NEIC	IV	10 12 03 00.1–.70	46.41N	152.97E	38–6	4.8b,4.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ27.00000°,λ52.00000°. NP2:ϕ_s237.00000°,δ69.00000°,λ107.00000°. M_o1.04000×10^{16}

JMA Error ellipse: s-maj=8.9km s-min=6.9km az=-1.0.

IDC Error ellipse: s-maj=14.8km s-min=11.3km az=152.0.

MOS Error ellipse: s-maj=7.8km s-min=5.4km az=87.4.

ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.5km az=163.9.

NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.2km az=160.0.

(259) Mindanao

ISC	**IV**	**10 20 04 22.5–.51**	**9.88N–.03**	**126.25E–.05**	**54–4**	**5.0b,3.8s**	**350**	**1-169**
BJI	IV	10 20 04 17.8	9.71N	126.25E	39	4.9b,4.9b		**¶16416188**
MOS	IV	10 20 04 18.5–1.3	9.87N	126.02E	32	5.3b,4.9b		
DJA	IV	10 20 04 20.2–.30	10N–3.0	126E–3.0	10	5.4b,4.9b		
MAN	IV	10 20 04 21	9.87N	126.21E	23	5.5b,4.8s		
IDC	IV	10 20 04 22.6–1.5	9.87N	126.03E	54–13	4.8,4.6		
ISCJB	IV	10 20 04 22.1–.43	9.87N–.02	126.24E–.03	66–4	4.8b,4.6		
NEIC	IV	10 20 04 23.7–.78	9.90N	126.18E	66–7	5.0b,4.6		
GCMT	IV	10 20 04 23.7–.30	9.93N	126.09E	37–0	5.0W,4.6		
KLM	IV	10 20 04 27.6	9.79N	126.32E	77	6.0s,4.9b		

ISC Event type fe.

MOS Error ellipse: s-maj=11.3km s-min=5.9km az=105.2.

MAN Event type fe. INTENSITY III - MAINIT SURIGAO DEL NORTE; GUIUAN E. SAMAR; INTENSITY II - SURIGAO CITY; LIBAGUN SOUTHERN LEYTE.

IDC Error ellipse: s-maj=13.4km s-min=8.4km az=83.0.

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.0km az=162.9.

NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=83.0. Felt [III PIVS] at Mainit and [II PIVS] at Surigao. Also felt [III PIVS] at Guiuan, Samar and [II PIVS] at Libagon, Letye.

GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c32; s59,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.33±.23 $M_{\theta\theta}$-1.60±.13; $M_{\phi\phi}$-0.72±.15; $M_{r\theta}$0.93±.10; $M_{\theta\phi}$-1.79±.06; $M_{\phi r}$-1.84±.15; Best double couple: NP1:ϕ_s202.00000°,δ59.00000° ,λ50.00000°. NP2:ϕ_s80.00000°,δ49.00000°,λ137.00000°. Principal axes: T 3.7060,Plg56.0000°,Azm57.0000°; N -0.6560,Plg33.0000°,Azm225.0000° ; P -3.0430,Plg5.0000°,Azm319.0000° M_o3.37400×10^{16}

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 08 16 12.7–.34**	**36.95N–.02**	**140.58E–.02**	**13–1**	**6.5s,6.4b**	**2771**	**0-165**
NIED	IV	11 08 16 00	36.90N	140.70E	5	6.6W,6.4b		**¶16416735**
ISCJB	IV	11 08 16 10.1–.39	36.96N–.01	140.44E–.01	4–2	6.5s,6.3b		
IDC	IV	11 08 16 10.7–.28	36.98N	140.47E	0	6.4,6.4s		
MOS	IV	11 08 16 10.9–.94	37.07N	140.51E	12	6.5b,6.5s		
BJI	IV	11 08 16 11.1	36.90N	140.70E	30	6.8,6.8s		
GCMT	IV	11 08 16 12.7–.00	37.00N	140.54E	12	6.7W,6.8s		
NEIC	IV	11 08 16 12.7–.06	37.00N	140.40E	11	6.6W,6.6W		
JMA	IV	11 08 16 12.0	36.95N	140.67E	6–1	7.0,6.6W		
NEIC	IV	11 08 16 13.0–.00	37.01N	140.68E	15	7.0,6.6W		
NEIC	IV	11 08 16 33.5–.00	37.20N	140.33E	10	7.0,6.6W		

ISC Event type de.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ41.00000°,λ-99.00000°. NP2:ϕ_s132.00000°,δ50.00000°,λ-82.00000°. M_o9.58000×10^{18}

ISCJB Event type de. Error ellipse: s-maj=2.2km s-min=1.6km az=144.9.

IDC Error ellipse: s-maj=10.6km s-min=7.8km az=63.0.

MOS Error ellipse: s-maj=5.7km s-min=3.7km az=101.3.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c339; s138,c598;Duration: 5s2 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.27±.00 $M_{\theta\theta}$0.76±.00; $M_{\phi\phi}$0.51±.01; $M_{r\theta}$-0.01±.01; $M_{\theta\phi}$-0.33±.00; $M_{\phi r}$0.45±.01; Best double couple: NP1:ϕ_s139.00000°,δ53.00000°,λ-75.00000°. NP2:ϕ_s295.00000° ,δ39.00000°,λ-109.00000°. Principal axes: T 1.0230,Plg7.0000°,Azm218.0000° ; N 0.3560,Plg12.0000°,Azm310.0000°; P -1.3770,Plg76.0000°,Azm97.0000°

$M_0$1.20000×10^{19}

NEIC Event type de. Error ellipse: s-maj=2.4km s-min=1.8km az=135.0. Six people killed by landslides at Iwaki and one person killed in Ibaraki. Felt [V] at Misawa and [IV] at Akiruno, Tokyo, Yokohama, Yokosuka and Zama. Felt in much of central and northern Honshu. Recorded [6L JMA] in Fukushima and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ20.00000° ,λ-90.00000°. NP2:ϕ_s45.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000° ,Azm135.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm315.0000°

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000° ,δ50.00000°,λ-70.00000°. NP2:ϕ_s326.00000°,δ44.00000°,λ-111.00000°. Principal axes: T Plg3.0000°,Azm251.0000°; N Plg15.0000°,Azm342.0000°; P Plg75.0000°,Azm151.0000°

NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.06 $M_{\theta\theta}$0.48 $M_{\phi\phi}$0.57 $M_{r\theta}$-0.02 $M_{\theta\phi}$-0.15 $M_{\phi r}$0.02 Best double couple: NP1:ϕ_s143.00000° ,δ46.00000°,λ-90.00000°. NP2:ϕ_s324.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 0.6800,Plg0.0000°,Azm233.0000°; N 0.3700,Plg0.0000°,Azm143.0000° ; P -1.0600,Plg89.0000°,Azm45.0000° $M_0$0.90000×10^{19}

NEIC Event type se. Moment Tensor Solution. s102 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.18 $M_{\theta\theta}$0.66 $M_{\phi\phi}$0.51 $M_{r\theta}$-0.08 $M_{\theta\phi}$-0.27 $M_{\phi r}$-0.22 Best double couple: NP1:ϕ_s316.00000° ,δ48.00000°,λ-79.00000°. NP2:ϕ_s119.00000°,δ44.00000°,λ-102.00000°. Principal axes: T 0.8700,Plg2.0000°,Azm38.0000°; N 0.3400,Plg8.0000°,Azm128.0000° ; P -1.2100,Plg81.0000°,Azm295.0000° $M_0$1.00000×10^{19}

(227) Eastern Honshu

ISC	IV	11 08 26 34.0–.68	37.08N–.04	140.53E–.04	40–5	5.1b	642	0-161
IDC	IV	11 08 26 27.8–.33	37.07N	140.45E	0	5.0,4.9	¶16416749	
ISCJB	IV	11 08 26 28.8–.47	37.08N–.02	140.50E–.02	12–2	5.7s,5.0b		
BJI	IV	11 08 26 29.6	37.05N	140.50E	23	5.4s,5.1		
JMA	IV	11 08 26 29.0	37.06N	140.62E	5–1	5.4,5.1		
MOS	IV	11 08 26 30.6–1.2	37.07N	140.49E	26	5.3b,5.1		
NEIC	IV	11 08 26 35.3–.51	37.06N	140.35E	49–4	5.2b,5.1		

ISC Event type se.

IDC Error ellipse: s-maj=11.5km s-min=8.9km az=87.0.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=42.1.

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s118.00000° ,δ48.00000°,λ-77.00000°. NP2:ϕ_s279.00000°,δ44.00000°,λ-104.00000°. Principal axes: T Plg2.0000°,Azm199.0000°; N Plg10.0000°,Azm289.0000°; P Plg80.0000°,Azm98.0000°

MOS Error ellipse: s-maj=7.9km s-min=5.2km az=99.0.

NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=143.0. Recorded [5L JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	IV	11 08 45 12.5–1.0	36.92N–.03	140.75E–.05	11–6	4.4b	106	0-161
IDC	IV	11 08 45 10.9–.56	36.96N	140.76E	0	5.8,5.8s	¶16505325	
ISCJB	IV	11 08 45 11.7–.58	36.93N–.02	140.84E–.05	18–3	5.6s,4.4b		
JMA	IV	11 08 45 12.5	36.95N	140.72E	7–1	4.7,4.4b		
MOS	IV	11 08 45 13.8–1.5	36.91N	140.71E	30	4.6b,4.4b		
NEIC	IV	11 08 45 15.7–1.9	36.90N	140.78E	34–13	4.5b,4.4b		

ISC Event type se.

IDC Error ellipse: s-maj=14.4km s-min=12.7km az=113.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.7km az=18.0.

MOS Error ellipse: s-maj=9.7km s-min=7.1km az=103.0.

NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.9km az=103.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.

(228) Near east coast of eastern Honshu

ISC	IV	11 11 42 35.7–.40	37.01N–.02	140.52E–.03	16–2	5.7b,5.0s	1817	0-165
NIED	IV	11 11 42 00	36.90N	140.60E	8	5.5W,5.0s	¶602553182	
ISCJB	IV	11 11 42 32.9–.45	37.00N–.01	140.42E–.02	5–2	5.6b,5.0s		
BJI	IV	11 11 42 33.9	37.00N	140.50E	14	5.4b,5.4s		
GCMT	IV	11 11 42 35.1–.20	37.01N	140.53E	12–0	5.5W,5.4s		
NEIC	IV	11 11 42 35.1–.07	36.98N	140.36E	10	5.6b,5.5W		
JMA	IV	11 11 42 35.1	36.97N	140.63E	11–1	5.9,5.5W		
IDC	IV	11 11 42 37.7–1.3	36.98N	140.48E	28–8	5.4,5.3		
MOS	IV	11 11 42 38.6–.87	37.27N	140.39E	36	5.8b,5.0s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ28.00000°,λ-86.00000°. NP2:ϕ_s264.00000°,δ62.00000°,λ-92.00000°. $M_0$1.72000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=148.5.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s64,c94; s116,c230;Duration: 1$\bar{s}$4 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.86±.06 $M_{\theta\theta}$1.95±.04; $M_{\phi\phi}$-0.09±.04; $M_{r\theta}$0.45±.09; $M_{\theta\phi}$0.01±.03; $M_{\phi r}$0.96±.13; Best double couple: NP1: ϕ_s247.00000°,δ56.00000°,λ-117.00000°. NP2:ϕ_s110.00000°,δ42.00000°,λ-55.00000°. Principal axes: T 2.0100,Plg8.0000°,Azm356.0000°; N 0.3070,Plg23.0000°,Azm263.0000° ; P -2.3220,Plg66.0000°,Azm104.0000° $M_0$2.16600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=137.0. Felt at Ebina, Mishima, Shibukawa, Tokyo, Tsukuba, Yashio and Yokosuka. Recorded [5L JMA] in Fukushima. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.01 $M_{\theta\theta}$1.75 $M_{\phi\phi}$0.27 $M_{r\theta}$0.66 $M_{\theta\phi}$0.02 $M_{\phi r}$0.39 Best double couple: NP1:ϕ_s260.00000°,δ56.00000°,λ-100.00000°. NP2:ϕ_s97.00000°,δ36.00000°,λ-76.00000°. Principal axes: T 1.8700,Plg10.0000° ,Azm357.0000°; N 0.3200,Plg8.0000°,Azm265.0000°; P -2.1900,Plg77.0000°,Azm137.0000° $M_0$2.00000×10^{17}

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s260.00000° ,δ67.00000°,λ-79.00000°. NP2:ϕ_s54.00000°,δ25.00000°,λ-115.00000°. Principal axes: T Plg21.0000°,Azm342.0000°; N Plg10.0000°,Azm76.0000°; P Plg66.0000°,Azm190.0000°

IDC Error ellipse: s-maj=10.1km s-min=7.1km az=77.0.

MOS Error ellipse: s-maj=5.5km s-min=3.6km az=108.6.

(178) Kermadec Islands

ISC	IV	11 13 33 40.8–.29	29.71S–.05	177.23W–.05	24	5.0b,4.3s	325	1-163
IDC	IV	11 13 33 36.5–.50	29.45S	177.15W	0	4.7,4.6	¶16417142	
ISCJB	IV	11 13 33 39.4–.18	29.75S–.03	177.38W–.04	24	5.0b,4.3s		
BJI	IV	11 13 33 41.3	29.40S	177.07W	41	5.5b,5.2s		
MOS	IV	11 13 33 41.2–1.2	29.43S	177.32W	33	5.2b,5.2s		
GCMT	IV	11 13 33 42.6–.30	29.30S	176.99W	38–1	5.2W,5.2s		
NEIC	IV	11 13 33 42.6–.92	29.56S	177.37W	39–8	5.0b,5.2s		

ISC Event type se.

IDC Error ellipse: s-maj=17.4km s-min=13.1km az=178.0.

ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=2.9km az=27.9.

MOS Error ellipse: s-maj=11.0km s-min=10.5km az=44.6.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s68,c93; Duration: 1$\bar{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.04 $M_{\theta\theta}$-0.13±.03; $M_{\phi\phi}$-0.64±.03; $M_{r\theta}$0.01±.03; $M_{\theta\phi}$-0.01±.02; $M_{\phi r}$0.38±.02; Best double couple: NP1:ϕ_s2.00000°,δ59.00000° ,λ90.00000°. NP2:ϕ_s182.00000°,δ31.00000°,λ90.00000°. Principal axes: T 0.8710,Plg76.0000°,Azm272.0000°; N -0.1330,Plg0.0000°,Azm182.0000° ; P -0.7390,Plg14.0000°,Azm92.0000° $M_0$0.80500×10^{17}

NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.7km az=132.0.

(229) Off east coast of Honshu

ISC	IV	11 17 53 32.7–.49	37.69N–.03	144.54E–.03	17–2	5.6b,5.0s	1844	3-163
NIED	IV	11 17 53 00	37.70N	144.40E	8	5.4W,5.0s	¶16417154	
ISCJB	IV	11 17 53 29.5–.50	37.67N–.02	144.51E–.01	6–3	5.5b,5.0s		
IDC	IV	11 17 53 29.9–.27	37.62N	144.58E	0	5.2,5.2		
BJI	IV	11 17 53 31.4	37.81N	144.22E	7	5.4b,5.4s		
GCMT	IV	11 17 53 31.7–.10	37.70N	144.50E	15–0	5.5W,5.4s		
NEIC	IV	11 17 53 32.0–.08	37.64N	144.47E	12	5.7b,5.4W		
JMA	IV	11 17 53 33.3–.20	37.67N	144.41E	47	5.4,5.4W		
MOS	IV	11 17 53 33.8–.93	38.00N	144.47E	23	5.7b,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ42.00000°,λ-82.00000°. NP2:ϕ_s45.00000°,δ49.00000°,λ-97.00000°. $M_0$1.27000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=165.4.

IDC Error ellipse: s-maj=10.1km s-min=7.3km az=85.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c214; s127,c308;Duration: 1$\bar{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.03±.03 $M_{\theta\theta}$1.37±.02; $M_{\phi\phi}$0.66±.02; $M_{r\theta}$0.11±.03; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.47±.04; Best double couple: NP1:ϕ_s228.00000° ,δ51.00000°,λ-101.00000°. NP2:ϕ_s65.00000°,δ41.00000°,λ-77.00000°. Principal axes: T 1.9320,Plg5.0000°,Azm326.0000°; N 0.1770,Plg8.0000°,Azm235.0000° ; P -2.1080,Plg80.0000°,Azm88.0000° $M_0$2.02000×10^{17}

NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.0km az=148.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.47 $M_{\theta\theta}$0.93 $M_{\phi\phi}$0.53 $M_{r\theta}$-0.11 $M_{\theta\phi}$1.06 $M_{\phi r}$-0.18 Best double couple: NP1:ϕ_s47.00000°,δ49.00000°,λ-95.00000°. NP2: ϕ_s234.00000°,δ42.00000°,λ-85.00000°. Principal axes: T 1.8300,Plg3.0000°,Azm140.0000° ; N -0.3500,Plg3.0000°,Azm50.0000°; P -1.4800,Plg85.0000°,Azm275.0000° $M_0$1.70000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=5.6km s-min=3.3km az=106.9.

(227) Eastern Honshu

ISC	IV	11 22 26 18.3–.32	36.82N–.02	138.55E–.02	10–1	5.4s,5.0b	885	0-158
NIED	IV	11 22 26 00	36.80N	138.60E	8	5.4W,5.0b	¶16418156	
IDC	IV	11 22 26 16.6–.39	36.88N	138.48E	0	5.1,5.1s		
JMA	IV	11 22 26 16.8	36.82N	138.61E	0	5.6,5.1s		
ISCJB	IV	11 22 26 17.4–.44	36.87N–.02	138.41E–.02	8–2	5.4s,4.9b		
BJI	IV	11 22 26 18.7	36.90N	138.30E	6	5.5s,5.3		
MOS	IV	11 22 26 19.3–1.1	36.79N	138.33E	25	5.4s,5.1b		
GCMT	IV	11 22 26 20.0–.10	36.74N	138.56E	12	5.5W,5.1b		
NEIC	IV	11 22 26 20.0–.93	36.81N	138.28E	17–5	5.1b,5.1b		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ85.00000°,λ-2.00000°. NP2:ϕ_s105.00000°,δ88.00000°,λ-175.00000°. $M_0$1.42000×10^{17}

IDC Error ellipse: s-maj=13.7km s-min=5.7km az=111.0.

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s109.00000° ,δ89.00000°,λ-176.00000°. NP2:ϕ_s19.00000°,δ86.00000°,λ-1.00000°. Principal axes: T Plg2.0000°,Azm244.0000°; N Plg86.0000°,Azm127.0000°; P Plg4.0000°,Azm334.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=152.8.

MOS Error ellipse: s-maj=6.9km s-min=4.3km az=96.2.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c175; s126,c246; Duration: 1$\bar{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.42±.02 $M_{\theta\theta}$-0.71±.02; $M_{\phi\phi}$1.14±.02; $M_{r\theta}$-0.60±.05; $M_{\theta\phi}$-1.46±.02; $M_{\phi r}$-0.07±.05; Best double couple: NP1:ϕ_s109.00000° ,δ78.00000°,λ-159.00000°. NP2:ϕ_s14.00000°,δ70.00000°,λ-13.00000°. Principal axes: T 1.9650,Plg6.0000°,Azm240.0000°; N -0.2110,Plg66.0000°,Azm137.0000° ; P -1.7520,Plg23.0000°,Azm333.0000° $M_0$1.85900×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=147.0. Felt at Nakano. Recorded [5L JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC	IV	11 23 08 17.1–.30	35.44N–.02	140.70E–.02	17–1	6.2s,6.0b	2173	0-162
NIED	IV	11 23 08 00	35.40N	141.00E	26	6.3W,6.0b	¶602546097	
BJI	IV	11 23 08 12.6	35.35N	140.70E	5	6.6,6.6s		
IDC	IV	11 23 08 14.0–.33	35.45N	140.76E	0	6.2,6.2		
ISCJB	IV	11 23 08 14.8–.41	35.37N–.01	140.79E–.01	13–2	6.3s,5.9b		
JMA	IV	11 23 08 15.8–.10	35.48N	140.87E	26–1	6.4,5.9b		
NEIC	IV	11 23 08 16.0–.00	35.21N	140.14E	15	6.4,5.9b		
NEIC	IV	11 23 08 16.9–.11	35.42N	140.58E	15	6.6,6.2W		
GCMT	IV	11 23 08 16.9–.10	35.42N	140.85E	16–0	6.2W,6.2W		
MOS	IV	11 23 08 18.4–1.1	35.87N	140.70E	23	6.3s,6.1b		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ72.00000°,λ13.00000°. NP2:ϕ_s304.00000°,δ77.00000°,λ162.00000°. $M_0$2.99000×10^{18}

IDC Error ellipse: s-maj=11.6km s-min=9.0km az=83.0.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=165.5.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.48 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$2.14 $M_{r\theta}$-1.61 $M_{\theta\phi}$-1.16 $M_{\phi r}$0.54 Best double couple: NP1:ϕ_s122.00000° ,δ81.00000°,λ-142.00000°. NP2:ϕ_s26.00000°,δ53.00000°,λ-10.00000°. Principal axes: T 2.7900,Plg18.0000°,Azm248.0000°; N 0.0900,Plg51.0000°,Azm133.0000° ; P -2.8700,Plg32.0000°,Azm350.0000° $M_0$2.80000×10^{18}

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=142.0. Felt [IV] at Narita, Tokyo and Yokosuka. Felt widely in southeastern Honshu. Recorded [5L JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.02 $M_{\theta\theta}$-1.76 $M_{\phi\phi}$1.79 $M_{r\theta}$-1.08 $M_{\theta\phi}$-0.81 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s30.00000°,δ69.00000°,λ-14.00000°. NP2:ϕ_s125.00000°,δ77.00000°,λ-159.00000°. Principal axes: T 1.9800,Plg5.0000° ,Azm256.0000°; N 0.4400,Plg65.0000°,Azm155.0000°; P -2.4200,Plg24.0000° ,Azm349.0000° $M_0$2.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s129.00000°,δ81.00000°,λ-155.00000°. NP2: ϕ_s35.00000°,δ65.00000°,λ-10.00000°. Principal axes: T Plg11.0000°,Azm260.0000° ; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm355.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c244; s130,c456;Duration: 3$\bar{s}$1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.27±.01 $M_{\theta\theta}$-1.88±.01; $M_{\phi\phi}$2.15±.01; $M_{r\theta}$-1.71±.06; $M_{\theta\phi}$-0.48±.01; $M_{\phi r}$0.16±.04; Best double couple: NP1:ϕ_s131.00000°,δ76.00000°,λ-149.00000°. NP2:ϕ_s33.00000° ,δ60.00000°,λ-16.00000°. Principal axes: T 2.2750,Plg11.0000°,Azm259.0000° ; N 0.7090,Plg56.0000°,Azm153.0000°; P -2.9860,Plg32.0000°,Azm356.0000° $M_0$2.63100×10^{18}

MOS Error ellipse: s-maj=5.4km s-min=3.3km az=109.7.

(228) Near east coast of eastern Honshu

ISC	IV	12 05 07 42.2–.29	37.12N–.02	140.58E–.02	14–1	6.2b,5.9s	2277	0-165
NIED	IV	12 05 07 00	37.00N	140.70E	8	5.9W,5.9s	¶16418173	
BJI	IV	12 05 07 35.5	36.90N	140.80E	5	6.3s,6.2		
ISCJB	IV	12 05 07 39.4–.47	37.13N–.01	140.40E–.01	5–2	6.0b,5.9s		
IDC	IV	12 05 07 40.0–.30	37.13N	140.48E	0	5.7,5.7		
NEIC	IV	12 05 07 41.9–.07	37.11N	140.37E	11	6.3b,6.2		
GCMT	IV	12 05 07 41.9–.10	37.08N	140.63E	18–0	5.9W,6.2		
NEIC	IV	12 05 07 42.0–.00	37.00N	140.90E	15	5.9W,6.2		
JMA	IV	12 05 07 42.2	37.05N	140.64E	15–1	6.4,6.2		
MOS	IV	12 05 07 44.4–.91	37.44N	140.38E	28	6.3b,5.9s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ51.00000°,λ2.00000°. NP2:ϕ_s76.00000°,δ89.00000°,λ141.00000°. $M_0$7.05000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=153.4.

IDC Error ellipse: s-maj=11.8km s-min=8.1km az=89.0.

NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=138.0. Felt in the Tokyo area. Recorded [6L JMA] in Fukushima and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s81 Moment tensor: Scale 10^{17}Nm; M_{rr}2.03 $M_{\theta\theta}$1.77 $M_{\phi\phi}$-3.80 $M_{r\theta}$4.66 $M_{\theta\phi}$-4.61 $M_{\phi r}$2.04 Best double couple: NP1:ϕ_s67.00000°,δ80.00000°,λ133.00000°. NP2:ϕ_s167.00000° ,δ44.00000°,λ14.00000°. Principal axes: T 6.9300,Plg39.0000°,Azm15.0000° ; N 1.2300,Plg42.0000°,Azm238.0000°; P -8.1600,Plg23.0000°,Azm125.0000° $M_0$7.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s179.00000°,δ30.00000°,λ10.00000°. NP2:ϕ_s80.00000°,δ85.00000°,λ120.00000°. Principal axes: T Plg42.0000°,Azm19.0000°; N Plg0.0000°,Azm0.0000°; P Plg33.0000° ,Azm145.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c278; s141,c445;Duration: 2$\bar{s}$3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.24±.01 $M_{\theta\theta}$0.22±.01; $M_{\phi\phi}$-0.46±.01; $M_{r\theta}$0.55±.02; $M_{\theta\phi}$-0.73±.01; $M_{\phi r}$0.11±.01; Best double couple: NP1:ϕ_s73.00000°,δ81.00000°,λ143.00000°. NP2:ϕ_s170.00000° ,δ53.00000°,λ12.00000°. Principal axes: T 0.9530,Plg33.0000°,Azm25.0000° ; N 0.1020,Plg52.0000°,Azm241.0000°; P -1.0550,Plg18.0000°,Azm127.0000° $M_0$1.00400×10^{18}

NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}4.19 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-4.00 $M_{r\theta}$4.92 $M_{\theta\phi}$-4.31 $M_{\phi r}$2.49 Best double couple: NP1:ϕ_s58.00000° ,δ71.00000°,λ116.00000°. NP2:ϕ_s182.00000°,δ32.00000°,λ38.00000°. Principal axes: T 7.3900,Plg56.0000°,Azm2.0000°; N 1.2800,Plg24.0000°,Azm228.0000° ; P -8.6800,Plg21.0000°,Azm128.0000° $M_0$8.10000×10^{17}

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s51.00000° ,δ58.00000°,λ107.00000°. NP2:ϕ_s202.00000°,δ36.00000°,λ66.00000°. Principal axes: T Plg72.0000°,Azm2.0000°; N Plg14.0000°,Azm222.0000°; P Plg11.0000°,Azm129.0000°

MOS Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=106.6. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.

(83) South of Panama

ISC	IV	12 07 44 02.6–.34	5.35N–.04	82.58W–.03	10	4.8b,4.1s	642	3-156
IDC	IV	12 07 44 00.1–.58	5.19N	82.64W	0	5.0L,4.7	¶16440434	
BJI	IV	12 07 44 00.5	5.30N	82.50W	10	5.5,5.5s		
ISCJB	IV	12 07 44 01.0–.18	5.42N–.02	82.47W–.02	10	4.8b,4.1s		
NEIC	IV	12 07 44 02.4–.18	5.30N	82.46W	10	4.8b,4.7W		
GCMT	IV	12 07 44 02.4–.30	5.15N	82.63W	31–1	5.2W,4.7W		
CASC	IV	12 07 44 03.4–3.1	5.29N	82.58W	35–31	4.8b,4.6		

ISC Event type se.

IDC Error ellipse: s-maj=23.4km s-min=11.1km az=55.0.

ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=36.6.

NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=48.0. Moment Tensor Solution. s9 Moment tensor: Scale 10^{16}Nm; M_{rr}0.07 $M_{\theta\theta}$0.29 $M_{\phi\phi}$-0.36 $M_{r\theta}$0.48 $M_{\theta\phi}$1.26 $M_{\phi r}$0.24 Best double couple: NP1:ϕ_s5.00000°,δ72.00000°,λ168.00000°. NP2:ϕ_s99.00000°,δ79.00000° ,λ18.00000°. Principal axes: T 1.4700,Plg21.0000°,Azm323.0000°; N -0.1200,Plg69.0000°

,Azm130.0000°; P -1.3500,Plg4.0000°,Azm231.0000° $M_0$1.40000×10^{16}

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c40; s95,c134; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.32±.33 $M_{\theta\theta}$1.50±.24; $M_{\phi\phi}$-1.82±.30; $M_{r\theta}$-0.01±.32; $M_{\theta\phi}$7.52±.20; $M_{\phi r}$-0.62±.34; Best double couple: NP1:ϕ_s6.00000°,δ90.00000°,λ-175.00000°. NP2:ϕ_s276.00000°,δ85.00000°,λ0.00000°. Principal axes: T 7.5620,Plg3.0000°,Azm141.0000°; N 0.3250,Plg85.0000°,Azm8.0000°; P -7.8890,Plg3.0000°,Azm231.0000° $M_0$7.72500×10^{16}

CASC Error ellipse: s-maj=14.8km s-min=10.4km az=-1.0.

(285) Sumbawa region

ISC	**IV**	**12 17 15 01.2–.95**	**8.11S–.07**	**116.11E–.05**	**35**	**3.4b**	**20**	**1-56**
IDC	IV	12 17 14 56.9–5.2	7.92S	116.21E	0	3.6,3.4		¶17200792
ISCJB	IV	12 17 14 59.6–.50	7.99S–.07	116.14E–.04	33	3.4b,2.2s		
DJA	IV	12 17 14 59.4–.30	8S–3.0	116E–2.0	10	5.7b,5.2		

ISC Event type ke.

ISCJB Event type ke.

(227) Eastern Honshu

ISC	**IV**	**12 19 37 48.3–.35**	**39.38N–.03**	**141.98E–.03**	**48–2**	**5.5b,5.1s**	**1315**	**0-162**
NIED	IV	12 19 37 00	39.40N	142.00E	47	5.6W,5.1s		¶16423572
BJI	IV	12 19 37 44.8	39.40N	142.00E	50	5.4b,5.2s		
MOS	IV	12 19 37 46.9–.83	39.49N	141.89E	42	5.7b,5.2s		
ISCJB	IV	12 19 37 48.0–.25	39.33N–.02	141.92E–.02	56–2	5.4b,5.1s		
JMA	IV	12 19 37 48.4–.10	39.34N	142.06E	48–1	5.5,5.1s		
GCMT	IV	12 19 37 48.3–.10	39.39N	142.13E	52–0	5.6W,5.1s		
NEIC	IV	12 19 37 48.3–.10	39.37N	141.90E	45	5.6W,5.6W		
NEIC	IV	12 19 37 49.0–.00	39.43N	142.02E	44	5.6W,5.6W		
IDC	IV	12 19 37 51.2–2.1	39.38N	141.90E	72–18	5.0s,5.0		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ101.00000°. $M_0$2.64000×10^{17}

MOS Error ellipse: s-maj=5.7km s-min=3.6km az=94.7.

ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=153.7.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ61.00000°,λ94.00000°. NP2:ϕ_s186.00000°,δ29.00000°,λ82.00000°. Principal axes: T Plg74.0000°,Azm295.0000°; N Plg4.0000°,Azm192.0000°; P Plg16.0000°,Azm101.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c208; s123,c296;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.45±.04 $M_{\theta\theta}$-0.18±.03; $M_{\phi\phi}$-2.26±.03; $M_{r\theta}$1.04±.03; $M_{\theta\phi}$-0.64±.02; $M_{\phi r}$1.88±.03; Best double couple: NP1:ϕ_s24.00000°,δ66.00000°,λ97.00000°. NP2:ϕ_s188.00000°,δ25.00000°,λ75.00000°. Principal axes: T 3.2870,Plg68.0000°,Azm308.0000°; N -0.0590,Plg6.0000°,Azm201.0000°; P -3.2210,Plg20.0000°,Azm109.0000° $M_0$3.25400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=146.0. Felt at Kesennuma. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s70 Moment tensor: Scale 10^{17}Nm; M_{rr}2.62 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-2.32 $M_{r\theta}$1.35 $M_{\theta\phi}$-0.67 $M_{\phi r}$2.32 Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ97.00000°. Principal axes: T 3.8000,Plg66.0000°,Azm308.0000°; N -0.1600,Plg6.0000°,Azm204.0000°; P -3.6400,Plg23.0000°,Azm111.0000° $M_0$3.70000×10^{17}

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$-1.28 $M_{r\theta}$0.89 $M_{\theta\phi}$-0.19 $M_{\phi r}$2.56 Best double couple: NP1:ϕ_s18.00000°,δ75.00000°,λ91.00000°. NP2:ϕ_s192.00000°,δ15.00000°,λ84.00000°. Principal axes: T 3.3700,Plg59.0000°,Azm290.0000°; N -0.4900,Plg1.0000°,Azm198.0000°; P -2.8800,Plg30.0000°,Azm107.0000° $M_0$3.20000×10^{17}

IDC Error ellipse: s-maj=11.7km s-min=8.2km az=91.0.

(216) Mariana Islands

ISC	**IV**	**12 21 07 56.8–.00**	**13.43N–.05**	**145.87E–.06**	**26–6**	**4.8b,4.2s**	**258**	**1-154**
DJA	IV	12 21 07 44.3–.80	14N–5.0	147E–11	10	5.5b,5.0		¶16427689
IDC	IV	12 21 07 52.6–.43	13.44N	145.87E	0	4.6,4.5		
BJI	IV	12 21 07 52.2	13.25N	146.09E	25	5.0b,4.7b		
ISCJB	IV	12 21 07 56.3–.20	13.43N–.03	145.78E–.04	33	4.8b,4.3s		
MOS	IV	12 21 07 57.6–.97	13.38N	145.78E	51	4.9b,4.1s		
GCMT	IV	12 21 07 59.4–.40	13.18N	145.95E	24–0	5.0W,4.1s		
NEIC	IV	12 21 07 59.4–1.1	13.40N	145.72E	45–10	5.0b,4.1s		

ISC Event type se.

IDC Error ellipse: s-maj=12.9km s-min=10.0km az=93.0.

ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=29.1.

MOS Error ellipse: s-maj=11.1km s-min=6.2km az=109.0.

GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c34; s79,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.38±.27 $M_{\theta\theta}$-0.74±.14; $M_{\phi\phi}$-3.65±.18; $M_{r\theta}$0.61±.23; $M_{\theta\phi}$-0.46±.11; $M_{\phi r}$1.08±.22; Best double couple: NP1:ϕ_s14.00000°,δ53.00000°,λ96.00000°. NP2:ϕ_s184.00000°,δ37.00000°,λ82.00000°. Principal axes: T 4.5800,Plg81.0000°,Azm310.0000°; N -0.7020,Plg5.0000°,Azm190.0000°; P -3.8840,Plg8.0000°,Azm100.0000° $M_0$4.23200×10^{16}

NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=111.0.

(227) Eastern Honshu

ISC	**IV**	**13 01 07 59.9–.43**	**36.95N–.02**	**140.63E–.02**	**20–1**	**5.4b,5.0s**	**1118**	**0-161**
NIED	IV	13 01 07 00	36.90N	140.70E	5	5.4W,5.0s		¶602557276
BJI	IV	13 01 07 55.9	36.76N	140.85E	24	5.4s,5.3b		
ISCJB	IV	13 01 07 57.0–.50	36.94N–.02	140.42E–.02	7–3	5.3b,5.0s		
IDC	IV	13 01 07 57.4–.31	36.99N	140.50E	0	5.1,5.1		
JMA	IV	13 01 07 58.0	36.92N	140.71E	5–1	5.7,5.1		
MOS	IV	13 01 08 01.9–.81	37.31N	140.40E	30	5.5b,4.9s		
GCMT	IV	13 01 08 02.2–.10	36.93N	140.63E	12	5.3W,4.9s		
NEIC	IV	13 01 08 02.2–1.1	36.95N	140.42E	32–7	5.4b,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ33.00000°,λ-92.00000°. NP2:ϕ_s180.00000°,δ57.00000°,λ-89.00000°. $M_0$1.36000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=153.6.

IDC Error ellipse: s-maj=11.0km s-min=8.8km az=86.0.

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s331.00000°,δ51.00000°,λ-114.00000°. NP2:ϕ_s187.00000°,δ45.00000°,λ-63.00000°. Principal axes: T Plg3.0000°,Azm78.0000°; N Plg19.0000°,Azm347.0000°; P Plg71.0000°,Azm177.0000°

MOS Error ellipse: s-maj=6.2km s-min=3.9km az=103.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c119; s131,c259; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$1.26±.01; $M_{r\theta}$0.12±.04; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$0.18±.04; Best double couple: NP1:ϕ_s180.00000°,δ49.00000°,λ-82.00000°. NP2:ϕ_s348.00000°,δ42.00000°,λ-99.00000°. Principal axes: T 1.2830,Plg4.0000°,Azm265.0000°; N 0.0430,Plg6.0000°,Azm355.0000°; P -1.3250,Plg83.0000°,Azm143.0000° $M_0$1.30400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=129.0. Recorded [5L JMA] in Ibaraki.

(706) Northern Sumatera

ISC	**IV**	**13 07 22 53.6–.91**	**4.27N–.09**	**96.16E–.10**	**31**	**3.6b**	**17**	**1-142**
DJA	IV	13 07 22 45.7–.90	5N–4.0	96E–7.0	59–15	5.5b,5.0		¶17200874
IDC	IV	13 07 22 49.1–1.3	4.25N	96.25E	0	3.7,3.5		
ISCJB	IV	13 07 22 51.6–.85	4.24N–.09	96.2E–.10	31	3.5b,3.5		

ISC Event type ke.

ISCJB Event type ke.

(229) Off east coast of Honshu

ISC	**IV**	**13 19 57 23.8–.44**	**39.59N–.03**	**143.56E–.02**	**16–2**	**6.2s,5.8b**	**2086**	**1-165**
NIED	IV	13 19 57 00	39.70N	143.80E	17	6.1W,5.8b		¶16426887
JMA	IV	13 19 57 18.5–.20	39.65N	143.81E	0	6.3,5.8b		
ISCJB	IV	13 19 57 21.0–.49	39.58N–.02	143.45E–.01	5–3	6.2s,5.8b		
BJI	IV	13 19 57 21.6	39.65N	143.50E	20	6.5,6.5s		
IDC	IV	13 19 57 21.3–.35	39.54N	143.46E	0	6.0s,6.0		
NEIC	IV	13 19 57 23.0–.00	39.39N	143.76E	15	6.0s,6.0		
GCMT	IV	13 19 57 25.4–.10	39.63N	143.59E	15–0	6.0W,6.0		
MOS	IV	13 19 57 25.9–.90	39.71N	143.36E	33	6.3s,6.0b		
NEIC	IV	13 19 57 25.4–.09	39.58N	143.34E	22	6.1W,6.0W		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ32.00000°,λ85.00000°. NP2:ϕ_s22.00000°,δ58.00000°,λ93.00000°. $M_0$1.39000×10^{18}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=157.5.

IDC Error ellipse: s-maj=10.5km s-min=9.3km az=128.0.

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-0.53 $M_{r\theta}$0.46 $M_{\theta\phi}$-0.08 $M_{\phi r}$1.10 Best double couple: NP1:ϕ_s21.00000°,δ77.00000°,λ94.00000°. NP2:ϕ_s184.00000°,δ13.00000°,λ74.00000°. Principal axes: T 1.3800,Plg57.0000°,Azm296.0000°; N -0.1000,Plg3.0000°,Azm200.0000°; P -1.2800,Plg31.0000°,Azm107.0000° $M_0$1.30000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c274; s138,c466;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.81±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$-0.85±.01; $M_{r\theta}$0.42±.01; $M_{\theta\phi}$-0.18±.00; $M_{\phi r}$1.12±.02; Best double couple: NP1:ϕ_s19.00000°,δ72.00000°,λ95.00000°. NP2:ϕ_s182.00000°,δ18.00000°,λ74.00000°. Principal axes: T 1.4370,Plg62.0000°,Azm297.0000°; N 0.0590,Plg5.0000°,Azm197.0000°; P -1.4960,Plg27.0000°,Azm105.0000° $M_0$1.46600×10^{18}

MOS Error ellipse: s-maj=5.6km s-min=3.4km az=103.2.

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=141.0. Felt at Misawa, Soma and Yokohama. Also felt at Obihiro, Hokkaido. Recorded [3 JMA] in Akita, Iwate, Miyagi and Yamagata, Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s12 Moment tensor: Scale 10^{18} Nm; M_{rr}0.73 $M_{\theta\theta}$0.03 $M_{\phi\phi}$-0.77 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.18 $M_{\phi r}$1.32 Best double couple: NP1: ϕ_s178.00000°,δ15.00000°,λ63.00000°. NP2:ϕ_s25.00000°,δ77.00000°,λ97.00000°. Principal axes: T 1.6600,Plg58.0000°,Azm304.0000°; N 0.0200,Plg7.0000°,Azm204.0000°; P -1.6800,Plg31.0000°,Azm110.0000° $M_0$1.70000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm280.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm100.0000°

(229) Off east coast of Honshu

ISC	**IV**	**13 20 02 30.3–2.3**	**39.54N–.04**	**143.49E–.04**	**15–14**	**4.9b**	**108**	**1-131**
IDC	IV	13 20 02 28.8–.58	39.57N	143.37E	0	4.8,4.7		¶16426888
JMA	IV	13 20 02 29.9–.20	39.57N	143.48E	15	5.3,4.7		
ISCJB	IV	13 20 02 29.7–1.1	39.52N–.03	143.51E–.04	19–7	4.8b,4.7		
BJI	IV	13 20 02 30.0	39.90N	143.10E	5	5.8s,5.6b		
NEIC	IV	13 20 02 31.0–3.2	39.57N	143.41E	15–20	5.0b,5.6b		
MOS	IV	13 20 02 30.9–.98	39.56N	143.47E	26	5.0b,5.6b		

ISC Event type se.

IDC Error ellipse: s-maj=15.4km s-min=12.3km az=122.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=139.6.

NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.2km az=115.0.

MOS Error ellipse: s-maj=9.8km s-min=6.8km az=85.7.

(229) Off east coast of Honshu

ISC	**IV**	**13 20 32 20.9–.51**	**39.70N–.03**	**143.30E–.03**	**18–2**	**5.8b,5.7s**	**1515**	**1-158**
NIED	IV	13 20 32 00	39.60N	143.50E	14	5.5W,5.7s		¶16426890
IDC	IV	13 20 32 17.9–.36	39.57N	143.34E	0	5.5,5.5b		
ISCJB	IV	13 20 32 18.0–.69	39.62N–.02	143.28E–.02	7–4	5.7s,5.7b		
JMA	IV	13 20 32 20.0–.20	39.65N	143.47E	33	5.7,5.7b		
BJI	IV	13 20 32 20.5	39.58N	142.98E	20	6.1b,5.7		
MOS	IV	13 20 32 21.6–.88	39.81N	143.20E	25	6.0b,5.7s		
GCMT	IV	13 20 32 21.4–.10	39.64N	143.48E	24	5.5W,5.7s		
NEIC	IV	13 20 32 21.4–.28	39.62N	143.19E	18–1	5.7b,5.7s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ20.00000°,λ50.00000°. NP2:ϕ_s37.00000°,δ75.00000°,λ103.00000°. $M_0$2.14000×10^{17}

IDC Error ellipse: s-maj=10.4km s-min=9.1km az=128.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=159.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=5.7km s-min=3.4km az=103.7.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s77,c127; s114,c237;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40±.03 $M_{\theta\theta}$0.17±.02; $M_{\phi\phi}$-1.23±.02; $M_{r\theta}$0.72±.03; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$1.45±.03; Best double couple: NP1:ϕ_s24.00000°,δ70.00000°,λ95.00000°. NP2:ϕ_s189.00000°,δ21.00000°,λ76.00000°. Principal axes: T 2.1680,Plg65.0000°,Azm302.0000°; N -0.1130,Plg5.0000°,Azm202.0000°; P -2.0570,Plg25.0000°,Azm110.0000° $M_0$2.11300×10^{17}

NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.3km az=146.0.

(297) Myanmar-China border region

ISC	**IV**	**13 22 35 16.4–1.1**	**23.27N–.05**	**98.50E–.09**	**10**	**3.2b**	**18**	**3-32**
BKK	IV	13 22 34 55.4–1.3	25N–7.0	97E–20	10	5.5b,5.1		¶16706813
IDC	IV	13 22 35 15.6–1.4	23.41N	98.61E	0	3.5L,3.3		
BJI	IV	13 22 35 19.7	23.40N	98.42E	10	4.0L,3.8s		

ISC Event type ke.

IDC Error ellipse: s-maj=40.9km s-min=16.9km az=85.0.

(281) Tanimbar Islands region

ISC	**IV**	**13 22 36 19.9–.87**	**6.01S–.06**	**131.96E–.09**	**10**		**10**	**2-68**
IDC	IV	13 22 36 19.5–2.3	6.07S	131.90E	0	4.4,4.4L		¶17200958
ISCJB	IV	13 22 36 20.7–.67	6.23S–.05	131.93E–.09	10	3.8b,3.5s		
DJA	IV	13 22 36 24.6–.40	6S–3.0	132E–5.0	10	5.7b,5.2		

ISC Event type ke.

ISCJB Event type ke.

(227) Eastern Honshu

ISC	**IV**	**14 03 08 58.8–.40**	**37.02N–.02**	**140.78E–.03**	**17–2**	**5.4b,4.5s**	**1412**	**0-165**
NIED	IV	14 03 08 00	37.00N	140.80E	8	5.0W,4.5s		¶16427219
BJI	IV	14 03 08 56.7	36.99N	141.04E	29	5.0b,4.9b		
NEIC	IV	14 03 08 58.0–.08	36.99N	140.60E	10	5.4b,4.9b		
IDC	IV	14 03 08 57.8–2.2	37.03N	140.66E	8–13	5.2,5.2		
JMA	IV	14 03 08 58.3	36.98N	140.77E	11–1	5.4,5.2		
GCMT	IV	14 03 08 58.0–.20	37.02N	140.74E	12	5.1W,5.2		
MOS	IV	14 03 08 58.8–.88	37.15N	140.65E	21	5.6b,4.4s		
ISCJB	IV	14 03 08 58.3–.35	37.02N–.02	140.69E–.02	20–2	5.3b,4.5s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ46.00000°,λ-66.00000°. NP2:ϕ_s227.00000°,δ49.00000°,λ-113.00000°. $M_0$3.80000×10^{16}

NEIC Event type fe. Felt at Aizubange, Narita and Utsunomiya. Recorded [4 JMA] in Fukushima and Ibaraki.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s102.00000°,δ60.00000°,λ-56.00000°. NP2:ϕ_s228.00000°,δ44.00000°,λ-135.00000°. Principal axes: T Plg9.0000°,Azm168.0000°; N Plg29.0000°,Azm263.0000°; P Plg59.0000°,Azm63.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c97; s91,c165;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.61±.09 $M_{\theta\theta}$3.70±.08; $M_{\phi\phi}$-0.09±.09; $M_{r\theta}$-0.35±.21; $M_{\theta\phi}$2.02±.07; $M_{\phi r}$3.21±.27; Best double couple: NP1:ϕ_s216.00000°,δ61.00000°,λ-127.00000°. NP2:ϕ_s94.00000°,δ46.00000°,λ-43.00000°. Principal axes: T 4.7120,Plg8.0000°,Azm332.0000°; N 0.9920,Plg32.0000°,Azm237.0000°; P -5.7050,Plg57.0000°,Azm75.0000° $M_0$5.20900×10^{16}

ISCJB Event type fe.

(179) South of Kermadec Islands

ISC	**IV**	**14 05 45 19.3–.26**	**33.03S–.04**	**178.45W–.04**	**32**	**5.5s,5.3b**	**534**	**4-172**
IDC	IV	14 05 45 14.2–.40	32.84S	178.42W	0	5.1,5.1s		¶16505369
BJI	IV	14 05 45 16.9	32.37S	177.92W	23	6.3s,5.9		
ISCJB	IV	14 05 45 17.9–.19	33.20S–.03	178.54W–.04	32	5.6s,5.2b		
GCMT	IV	14 05 45 17.3–.20	32.94S	177.96W	20–0	5.4W,5.2b		
NEIC	IV	14 05 45 17.3–.75	33.05S	178.53W	19–4	5.6s,5.5W		
MOS	IV	14 05 45 19.1–1.0	32.83S	178.54W	33	5.7s,5.3b		

ISC Event type se.

IDC Error ellipse: s-maj=16.1km s-min=13.8km az=133.0.

ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=2.8km az=29.1.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s71,c113; s104,c193;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.03 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$-0.86±.02; $M_{r\theta}$0.18±.04; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$1.11±.05; Best double couple: NP1:ϕ_s12.00000°,δ70.00000°,λ85.00000°. NP2:ϕ_s207.00000°,δ21.00000°,λ104.00000°. Principal axes: T 1.5030,Plg65.0000°,Azm273.0000°; N -0.0200,Plg5.0000°,Azm14.0000°; P -1.4830,Plg24.0000°,Azm106.0000° $M_0$1.49300×10^{17}

NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=128.0. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-0.25 $M_{r\theta}$1.73 $M_{\theta\phi}$0.32 $M_{\phi r}$-0.54 Best double couple: NP1:ϕ_s109.00000°,δ82.00000°,λ83.00000°. NP2:ϕ_s328.00000°,δ11.00000°,λ129.00000°. Principal axes: T 1.9500,Plg53.0000°,Azm10.0000°; N -0.0700,Plg7.0000°,Azm110.0000°; P -1.8700,Plg36.0000°,Azm205.0000° $M_0$1.90000×10^{17}

MOS Error ellipse: s-maj=11.7km s-min=10.4km az=108.1.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 06 07 07.5–.43**	**36.73N–.04**	**141.60E–.04**	**24–2**	**5.1s,4.9b**	**342**	**1-152**
NIED	IV	14 06 07 00	36.70N	141.60E	26	4.3W,4.9b		¶16437942
IDC	IV	14 06 07 03.7–.43	36.71N	141.67E	0	5.0s,4.9		
MOS	IV	14 06 07 05.9–.94	36.69N	141.62E	24	4.7b,4.9		
ISCJB	IV	14 06 07 06.9–.85	36.69N–.03	141.56E–.03	29–5	5.0s,4.8b		

JMA IV 14 06 07 06.3–.30 36.74N 141.64E 33–4 4.3,4.8b
BJI IV 14 06 07 07.2 36.41N 141.64E 44 5.5s,5.2
NEIC IV 14 06 07 09.4–.43 36.69N 141.58E 36–4 5.1b,5.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ78.00000°,λ172.00000°. NP2:ϕ_s12.00000°,δ82.00000°,λ13.00000°. $M_0$3.51000×10^{15}
IDC Error ellipse: s-maj=13.3km s-min=10.4km az=107.0.
MOS Error ellipse: s-maj=8.6km s-min=6.0km az=101.9.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=138.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=128.0.

(228) Near east coast of eastern Honshu

ISC	IV	14 06 08 49.1–.41	35.65N–.03	141.90E–.03	20–1	5.5s,5.3b	622	1-166
NIED	IV	14 06 08 00	35.50N	142.50E	5	5.7W,5.3b		¶16427228
JMA	IV	14 06 08 42.6–.30	35.52N	142.47E	28	6.0,5.3b		
IDC	IV	14 06 08 44.4–.45	35.46N	142.26E	0	5.2,5.2s		
BJI	IV	14 06 08 45.1	35.65N	141.80E	10	6.0s,5.9		
ISCJB	IV	14 06 08 47.7–.13	35.56N–.02	141.92E–.02	22	5.6s,5.1b		
GCMT	IV	14 06 08 47.3–.10	35.50N	142.25E	12	5.6W,5.1b		
NEIC	IV	14 06 08 47.3–.16	35.56N	141.88E	10	5.8W,5.7W		
NEIC	IV	14 06 08 48.0–.00	35.08N	141.87E	15	5.8W,5.7W		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ19.00000°,λ81.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ93.00000°. $M_0$4.17000×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=10.3km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=160.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c179; s129,c338;Duration: 1$\hat{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36±.02 $M_{\theta\theta}$-0.34±.02; $M_{\phi\phi}$-2.02±.02; $M_{r\theta}$0.91±.07; $M_{\theta\phi}$-0.79±.02; $M_{\phi r}$2.38±.07; Best double couple: NP1:ϕ_s21.00000°,δ69.00000°,λ90.00000°. NP2:ϕ_s202.00000°,δ21.00000°,λ91.00000°. Principal axes: T 3.4770,Plg66.0000°,Azm290.0000°; N -0.0220,Plg0.0000°,Azm21.0000° ; P -3.4520,Plg24.0000°,Azm111.0000° $M_0$3.46400×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=140.0. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17}Nm; M_{rr}3.65 $M_{\theta\theta}$-1.72 $M_{\phi\phi}$-1.93 $M_{r\theta}$2.00 $M_{\theta\phi}$-2.07 $M_{\phi r}$4.16 Best double couple: NP1:ϕ_s237.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s30.00000° ,δ71.00000°,λ80.00000°. Principal axes: T 5.9600,Plg63.0000°,Azm284.0000° ; N 0.0200,Plg9.0000°,Azm33.0000°; P -5.9800,Plg25.0000°,Azm127.0000° $M_0$6.00000×10^{17}
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}1.20 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-1.30 $M_{r\theta}$1.20 $M_{\theta\phi}$-0.90 $M_{\phi r}$3.90 Best double couple: NP1:ϕ_s16.00000° ,δ80.00000°,λ85.00000°. NP2:ϕ_s223.00000°,δ11.00000°,λ117.00000°. Principal axes: T 4.1000,Plg54.0000°,Azm280.0000°; N 0.6000,Plg4.0000°,Azm17.0000° ; P -4.6000,Plg35.0000°,Azm110.0000° $M_0$4.00000×10^{17}

(74) Near coast of Nicaragua

ISC	IV	14 20 50 19.0–.38	11.28N–.04	86.36W–.04	55–2	5.5b,5.4s	1182	1-177
IDC	IV	14 20 50 11.5–.34	11.48N	86.06W	0	5.3,5.3s		¶16436913
NEIC	IV	14 20 50 15.1–.20	11.24N	86.34W	22	5.7W,5.6W		
GCMT	IV	14 20 50 16.5–.10	10.85N	86.81W	34–0	5.7W,5.6W		
CASC	IV	14 20 50 16.3–2.2	11.02N	86.57W	22–8	5.6b,4.9		
ISCJB	IV	14 20 50 18.8–.25	11.30N–.03	86.32W–.02	72–2	5.4b,4.9		
BJI	IV	14 20 50 19.5	11.30N	86.30W	56	5.9s,5.6		
NEIC	IV	14 20 50 19.0–.00	11.11N	86.25W	35	5.9s,5.6		
MOS	IV	14 20 50 19.1–1.1	11.52N	86.09W	64	5.7b,5.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=8.9km az=59.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=46.0. Felt [III] at Managua. Felt widely in western Nicaragua. Felt [III] at Sardinal, Costa Rica. Felt in northwestern Costa Rica and in the Valle Central. Felt [I] at San Salvador, El Salvador. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36 $M_{\theta\theta}$-1.84 $M_{\phi\phi}$-0.52 $M_{r\theta}$1.17 $M_{\theta\phi}$1.00 $M_{\phi r}$-0.58 Best double couple: NP1:ϕ_s117.00000°,δ59.00000°,λ89.00000°. NP2: ϕ_s299.00000°,δ31.00000°,λ92.00000°. Principal axes: T 2.6900,Plg76.0000°,Azm25.0000° ; N 0.0200,Plg1.0000°,Azm118.0000°; P -2.7100,Plg14.0000°,Azm208.0000° $M_0$2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c233; s123,c307;Duration: 1$\hat{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.62±.04 $M_{\theta\theta}$-2.56±.03; $M_{\phi\phi}$-1.06±.04; $M_{r\theta}$2.04±.05; $M_{\theta\phi}$1.99±.03; $M_{\phi r}$-1.35±.05; Best double couple: NP1: ϕ_s124.00000°,δ61.00000°,λ89.00000°. NP2:ϕ_s305.00000°,δ29.00000°,λ91.00000°. Principal axes: T 4.3430,Plg74.0000°,Azm32.0000°; N 0.3160,Plg1.0000°,Azm124.0000° ; P -4.6590,Plg16.0000°,Azm215.0000° $M_0$4.50100×10^{17}
CASC Error ellipse: s-maj=9.5km s-min=6.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.4km az=39.0.
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}3.40 $M_{\theta\theta}$-2.20 $M_{\phi\phi}$-1.20 $M_{r\theta}$2.10 $M_{\theta\phi}$2.30 $M_{\phi r}$-2.20 Best double couple: NP1:ϕ_s133.00000° ,δ65.00000°,λ95.00000°. NP2:ϕ_s302.00000°,δ26.00000°,λ80.00000°. Principal axes: T 4.5000,Plg69.0000°,Azm53.0000°; N 0.7000,Plg4.0000°,Azm311.0000° ; P -5.2000,Plg19.0000°,Azm219.0000° $M_0$5.00000×10^{17}
MOS Error ellipse: s-maj=9.3km s-min=4.3km az=114.3.

(173) Tonga Islands

ISC	IV	15 02 06 28.7–.47	15.25S–.04	173.12W–.04	17–2	5.7b,5.7s	1715	2-175
IDC	IV	15 02 06 25.8–.32	15.31S	173.17W	0	5.5s,5.5		¶16505384
BJI	IV	15 02 06 25.9	15.26S	173.13W	7	5.9b,5.6s		
ISCJB	IV	15 02 06 25.8–.09	15.27S–.02	173.21W–.02	10	5.6s,5.6b		
GCMT	IV	15 02 06 26.8–.10	15.07S	172.97W	30–0	5.8W,5.6b		
NEIC	IV	15 02 06 27.0–.00	14.77S	173.24W	15	5.8W,5.6b		
NEIC	IV	15 02 06 28.4–.09	15.28S	173.24W	17	5.8W,5.8W		
MOS	IV	15 02 06 30.5–.89	15.05S	173.12W	33	5.8b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=13.2km s-min=9.4km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=142.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c248; s135,c383;Duration: 2$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.28±.05 $M_{\theta\theta}$4.35±.05; $M_{\phi\phi}$-4.63±.05; $M_{r\theta}$-4.46±.13; $M_{\theta\phi}$3.02±.04; $M_{\phi r}$1.09±.09; Best double couple: NP1: ϕ_s298.00000°,δ86.00000°,λ39.00000°. NP2:ϕ_s205.00000°,δ51.00000°,λ174.00000°. Principal axes: T 7.5470,Plg30.0000°,Azm169.0000°; N -0.9990,Plg51.0000°,Azm304.0000° ; P -6.5480,Plg23.0000°,Azm65.0000° $M_0$7.04800×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$3.10 $M_{\phi\phi}$-3.60 $M_{r\theta}$-2.40 $M_{\theta\phi}$3.50 $M_{\phi r}$3.50 Best double couple: NP1:ϕ_s112.00000° ,δ82.00000°,λ-32.00000°. NP2:ϕ_s207.00000°,δ57.00000°,λ-171.00000°. Principal axes: T 4.8000,Plg16.0000°,Azm164.0000°; N 2.5000,Plg56.0000°,Azm280.0000° ; P -7.4000,Plg28.0000°,Azm64.0000° $M_0$6.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=135.0. Felt at Neiafu. Felt [III] at Apia, Samoa. Also felt at Faleolo. Felt at Alao, Fagatogo, Malaeimi, Mapusagafou, Nu'uuli and Pago Pago, American Samoa. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.77 $M_{\theta\theta}$2.68 $M_{\phi\phi}$-1.90 $M_{r\theta}$-4.36 $M_{\theta\phi}$3.57 $M_{\phi r}$2.65 Best double couple: NP1:ϕ_s203.00000°,δ42.00000°,λ-172.00000°. NP2:ϕ_s107.00000° ,δ84.00000°,λ-49.00000°. Principal axes: T 5.9900,Plg27.0000°,Azm165.0000° ; N 1.2000,Plg41.0000°,Azm282.0000°; P -7.1900,Plg37.0000°,Azm52.0000° $M_0$6.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s231.00000°,δ11.00000°,λ-153.00000°. NP2:ϕ_s115.00000°,δ85.00000°,λ-80.00000°. Principal axes: T Plg39.0000°,Azm196.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm36.0000°
MOS Error ellipse: s-maj=9.0km s-min=6.3km az=75.3.

(153) South Sandwich Islands region

ISC	IV	15 05 02 11.7–.24	55.59S–.06	28.06W–.06	26	5.4b,4.5s	294	5-166
ISCJB	IV	15 05 02 10.6–.24	55.56S–.05	28.07W–.08	26	5.3b,4.5s		¶16436932
MOS	IV	15 05 02 12.1–1.1	55.60S	28.11W	33	5.5b,4.5s		
BJI	IV	15 05 02 14.7	55.60S	28.10W	47	5.3s,5.2b		
IDC	IV	15 05 02 15.4–1.2	55.63S	28.15W	54–9	5.2,4.9		
NEIC	IV	15 05 02 15.8–.86	55.62S	28.10W	55–7	5.3b,4.9		
GCMT	IV	15 05 02 15.8–.20	55.72S	27.96W	45–2	5.1W,4.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.1km az=136.6.
MOS Error ellipse: s-maj=20.9km s-min=11.4km az=103.2.
IDC Error ellipse: s-maj=15.1km s-min=10.8km az=35.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=218.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c60; s91,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.28±.24 $M_{\theta\theta}$1.14±.20; $M_{\phi\phi}$-3.42±.17; $M_{r\theta}$-3.52±.19; $M_{\theta\phi}$-0.03±.14; $M_{\phi r}$-3.38±.18; Best double couple: NP1:ϕ_s217.00000° ,δ78.00000°,λ114.00000°. NP2:ϕ_s332.00000°,δ26.00000°,λ28.00000°. Principal axes: T 6.0170,Plg51.0000°,Azm154.0000°; N -0.6080,Plg23.0000°,Azm32.0000° ; P -5.4090,Plg29.0000°,Azm288.0000° $M_0$5.71300×10^{16}

(7) Andreanof Islands

ISC	IV	15 06 50 27.2–.47	50.54N–.04	175.10W–.03	27–2	5.4b,4.4s	1493	2-153
BJI	IV	15 06 50 22.7	50.49N	175.31W	11	5.4b,5.2b		¶16437951
IDC	IV	15 06 50 23.0–.38	50.45N	175.19W	0	5.2,5.1		
ISCJB	IV	15 06 50 23.7–.68	50.49N–.02	175.03W–.02	15–4	5.3b,4.4s		
MOS	IV	15 06 50 26.4–1.1	50.57N	175.12W	30	5.6b,4.4s		
GCMT	IV	15 06 50 29.1–.20	50.51N	175.22W	12	5.1W,4.4s		
NEIC	IV	15 06 50 29.1	50.67N	175.20W	26	5.4b,4.8L		

ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=9.0km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=1.8km az=5.7.
MOS Error ellipse: s-maj=5.9km s-min=4.1km az=92.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c95; s118,c204; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.06±.10 $M_{\theta\theta}$6.23±.09; $M_{\phi\phi}$-0.17±.09; $M_{r\theta}$-0.43±.27; $M_{\theta\phi}$-0.40±.09; $M_{\phi r}$0.61±.33; Best double couple: NP1:ϕ_s99.00000°,δ47.00000° ,λ-82.00000°. NP2:ϕ_s268.00000°,δ43.00000°,λ-98.00000°. Principal axes: T 6.2720,Plg2.0000°,Azm184.0000°; N -0.1400,Plg6.0000°,Azm274.0000° ; P -6.1340,Plg84.0000°,Azm73.0000° $M_0$6.20300×10^{16}
NEIC Event type se. After AEIC.

(282) South of Jawa

ISC	IV	15 11 59 12.1–.64	9.77S–.04	114.02E–.04	43–5	4.7b,3.9s	241	1-154
IDC	IV	15 11 59 06.1–.41	9.59S	114.14E	0	4.6,4.6		¶16437958
BJI	IV	15 11 59 08.9	9.70S	114.20E	16	4.9b,4.8b		
MOS	IV	15 11 59 09.3–1.1	9.52S	114.19E	33	4.8b,4.8b		
NEIC	IV	15 11 59 11.9–.53	9.71S	114.01E	39–5	4.8b,4.8b		
DJA	IV	15 11 59 11.3–.20	10S–2.0	114E–1.0	10	5.4b,5.2		
ISCJB	IV	15 11 59 11.7–.41	9.71S–.03	114.03E–.02	57–3	4.7b,3.8s		
KLM	IV	15 11 59 14.0	9.94S	113.80E	44	5.7s,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=11.1km az=62.0.
MOS Error ellipse: s-maj=13.4km s-min=6.7km az=113.1.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=202.0. Felt [III] at Denpasar and Nusadua.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=21.6.

(703) Andaman Islands region

ISC	IV	15 12 42 57.8–.47	10.66N–.06	91.59E–.06	17	4.2b	53	2-146
BKK	IV	15 12 42 43.5–2.1	10N–6.0	90E–20	10	4.9b,4.3b		¶16505389
IDC	IV	15 12 42 55.0–.65	10.67N	91.69E	0	4.2,4.1b		
ISCJB	IV	15 12 42 56.4–.34	10.70N–.04	91.59E–.03	17	4.8s,4.2b		
NEIC	IV	15 12 43 00.6–1.6	10.69N	91.74E	37–15	4.3b,4.2b		
DJA	IV	15 12 43 04.1–.90	11N–4.0	92E–8.0	50–9	7.6,6.1b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(282) South of Jawa

ISC	IV	16 01 40 56.0–1.1	10.70S–.08	113.67E–.07	23	3.7b	20	2-118
IDC	IV	16 01 40 51.5–2.4	10.82S	113.51E	0	3.9,3.7		¶17201183
DJA	IV	16 01 40 58.7–2.7	11S–7.0	114E–3.0	38–39	6.4b,6.2		

ISC Event type ke.

(162) South Island

ISC	IV	16 05 49 23.6–.30	43.57S–.03	172.81E–.04	10	5.2b,4.3s	309	0-165
ISCJB	IV	16 05 49 20.6–.26	43.61S–.03	172.91E–.03	10	5.0b,4.3s		¶16440104
BJI	IV	16 05 49 21.8	43.90S	172.42E	7	5.4b,5.4b		
IDC	IV	16 05 49 21.8–.54	43.40S	172.77E	0	4.7,4.6		
NEIC	IV	16 05 49 22.2	43.61S	172.79E	11	5.3L,5.2b		
GCMT	IV	16 05 49 22.2–.20	43.59S	172.73E	12	5.0W,5.2b		
WEL	IV	16 05 49 22.7–.13	43.60S	172.76E	9–0	5.3L,5.2b		
MOS	IV	16 05 49 23.0–1.2	43.48S	172.54E	10	5.5b,5.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.1km az=142.0.
IDC Error ellipse: s-maj=17.9km s-min=12.8km az=167.0.
NEIC Event type fe. Felt [V] at Christchurch and [IV] at Rangiora. Also felt at Ashburton, Lyttelton, Oxford, Pleasant Point, Tai Tapu, Timaru and Woodend. After WEL. Moment Tensor Solution. s36 Moment tensor: Scale 10^{16}Nm; M_{rr}1.25 $M_{\theta\theta}$0.51 $M_{\phi\phi}$-1.76 $M_{r\theta}$1.65 $M_{\theta\phi}$-2.53 $M_{\phi r}$-0.33 Best double couple: NP1:ϕ_s174.00000°,δ58.00000°,λ23.00000°. NP2:ϕ_s71.00000° ,δ71.00000°,λ146.00000°. Principal axes: T 3.3400,Plg37.0000°,Azm29.0000° ; N 0.1400,Plg51.0000°,Azm226.0000°; P -3.4900,Plg8.0000°,Azm125.0000° $M_0$3.40000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s83,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.22±.10 $M_{\theta\theta}$0.32±.11; $M_{\phi\phi}$-1.55±.09; $M_{r\theta}$0.41±.26; $M_{\theta\phi}$-3.53±.07; $M_{\phi r}$0.82±.29; Best double couple: NP1:ϕ_s173.00000°,δ88.00000° ,λ-10.00000°. NP2:ϕ_s263.00000°,δ80.00000°,λ-178.00000°. Principal axes: T 3.0550,Plg6.0000°,Azm218.0000°; N 1.3450,Plg79.0000°,Azm340.0000° ; P -4.4090,Plg9.0000°,Azm127.0000° $M_0$3.73200×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt from Wairarapa to Southland, maximum reported intensity MM 8.
MOS Error ellipse: s-maj=16.7km s-min=11.5km az=129.4.

(229) Off east coast of Honshu

ISC	IV	16 20 36 47.9–.34	36.87N–.03	143.90E–.03	25–1	5.8b,4.9s	1922	2-164
NIED	IV	16 20 36 00	36.90N	143.80E	8	5.4W,4.9s		¶16442382
IDC	IV	16 20 36 44.0–.34	36.88N	144.03E	0	5.4,5.3		
GCMT	IV	16 20 36 46.3–.10	36.95N	143.92E	12	5.5W,5.3		
NEIC	IV	16 20 36 46.3–1.2	36.88N	143.92E	15–7	5.8b,5.5W		
ISCJB	IV	16 20 36 47.9–.07	36.80N–.02	143.94E–.01	36	5.7b,5.0s		
MOS	IV	16 20 36 47.7–.84	37.14N	143.93E	25	5.9b,5.0s		
JMA	IV	16 20 36 48.1–.30	36.94N	143.76E	54	5.4,5.0s		
BJI	IV	16 20 36 49.2	37.14N	143.43E	22	5.5b,5.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ31.00000°,λ-95.00000°. NP2:ϕ_s243.00000°,δ60.00000°,λ-87.00000°. $M_0$1.54000×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=100.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c176; s119,c304;Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.75±.02 $M_{\theta\theta}$1.41±.02; $M_{\phi\phi}$0.34±.02; $M_{r\theta}$0.42±.04; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.91±.05; Best double couple: NP1:ϕ_s225.00000° ,δ59.00000°,λ-108.00000°. NP2:ϕ_s78.00000°,δ35.00000°,λ-63.00000°. Principal axes: T 2.0230,Plg13.0000°,Azm328.0000°; N 0.0750,Plg15.0000°,Azm235.0000° ; P -2.0960,Plg70.0000°,Azm96.0000° $M_0$2.06000×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=1.9km az=151.0. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.62 $M_{\theta\theta}$1.51 $M_{\phi\phi}$0.11 $M_{r\theta}$0.40 $M_{\theta\phi}$0.96 $M_{\phi r}$0.59 Best double couple: NP1:ϕ_s77.00000°,δ37.00000°,λ-68.00000°. NP2:ϕ_s230.00000° ,δ56.00000°,λ-106.00000°. Principal axes: T 2.1000,Plg10.0000°,Azm332.0000° ; N -0.3000,Plg13.0000°,Azm239.0000°; P -1.8100,Plg74.0000°,Azm97.0000° $M_0$2.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.5km az=163.3.
MOS Error ellipse: s-maj=5.5km s-min=3.5km az=109.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(192) New Britain region

ISC	IV	17 23 23 36.6–.34	6.53S–.05	153.55E–.05	29	4.8s,4.7b	134	3-152
ISCJB	IV	17 23 23 34.8–.24	6.53S–.04	153.54E–.04	29	4.7b,4.0s		¶16532037
MOS	IV	17 23 23 35.9–.85	6.51S	153.53E	40	4.7b,4.0s		
BJI	IV	17 23 23 35.7	6.50S	153.50E	38	5.0s,4.9b		
NEIC	IV	17 23 23 38.2–.72	6.52S	153.51E	44–7	4.7b,4.9b		
IDC	IV	17 23 23 39.1–3.8	6.56S	153.50E	52–33	4.3,4.2		
DJA	IV	17 23 23 44.1–1.9	6S–7.0	153E–8.0	46–16	5.6b,5.2		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(153) South Sandwich Islands region

ISC	IV	19 03 53 24.3–.29	56.54S–.07	25.65W–.06	29	5.1b,4.2s	190	7-165
IDC	IV	19 03 53 19.9–.41	56.53S	25.61W	0	5.0b,5.0		¶16446643
ISCJB	IV	19 03 53 22.4–.26	56.52S–.05	25.66W–.08	29	5.0b,4.2s		

MOS IV 19 03 53 23.6–1.3 56.56S 25.72W 33 4.9b,4.2s
GCMT IV 19 03 53 25.6–.30 56.70S 25.19W 26–0 5.0W,4.2s
BJI IV 19 03 53 25.7 56.50S 25.60W 38 5.6s,5.5b
NEIC IV 19 03 53 25.6–1.2 56.57S 25.62W 39–10 5.0b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=12.5km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=37.2.
MOS Error ellipse: s-maj=23.7km s-min=13.2km az=104.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c35; s58,c78; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.65±.22 $M_{\theta\theta}$-1.12±.15; $M_{\phi\phi}$-2.53±.15; $M_{r\theta}$-0.30±.29; $M_{\theta\phi}$1.33±.08; $M_{\phi r}$1.68±.25; Best double couple: NP1:ϕ_s337.00000°,δ58.00000°,λ98.00000°. NP2:ϕ_s142.00000°,δ33.00000°,λ77.00000°. Principal axes: T 4.0770,Plg76.0000°,Azm272.0000°; N -0.3940,Plg7.0000°,Azm153.0000°; P -3.6830,Plg12.0000°,Azm61.0000° M_o3.88000×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=211.0.

(248) Philippine Islands region

ISC	**IV**	**19 05 30 37.6–.43**	**19.03N–.03**	**121.19E–.04**	**32–3**	**4.7b,4.1s**	**317**	**1-173**
IDC	IV	19 05 30 31.6–.42	18.93N	121.30E	0	4.5,4.4		¶16449045
MAN	IV	19 05 30 32	19.41N	121.06E	19	5.8b,5.3s		
BKK	IV	19 05 30 33.6–.90	19N–6.0	122E–10	10	5.0b,4.6b		
ISCJB	IV	19 05 30 36.3–.16	19.14N–.02	121.24E–.03	30	4.6b,4.1s		
NEIC	IV	19 05 30 37.7–.60	18.91N	121.32E	40–5	4.8b,4.1s		
GCMT	IV	19 05 30 37.7–.30	19.06N	120.95E	46–1	5.0W,4.1s		
MOS	IV	19 05 30 38.1–1.0	18.95N	121.37E	62	4.8b,4.1s		
BJI	IV	19 05 30 40.9	19.40N	120.89E	31	4.9b,4.7L		
KLM	IV	19 05 30 49.0	18.72N	121.37E	156	5.6s,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=10.6km az=85.0.
MAN Event type fe. INTENSITY V - CALAYAN CAGAYAN; INTENSITY III - CLAVERIA CAGAYAN; INTENSITY II - PASUQUIN SARRAT BATAC ILOCOS NORTE; LAOAG CITY.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=7.2.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=106.0. Felt [V PIVS] at Calayan, [III PIVS] at Claveria and [II PIVS] at Batac, Laoag, Pasuquin and Sarrat. Also felt at Pagudpud.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c50; s63,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.06±.23 $M_{\theta\theta}$-0.24±.14; $M_{\phi\phi}$-2.82±.16; $M_{r\theta}$-1.54±.10; $M_{\theta\phi}$-1.86±.08; $M_{\phi r}$-0.98±.14; Best double couple: NP1:ϕ_s223.00000°,δ60.00000°,λ109.00000°. NP2:ϕ_s10.00000°,δ35.00000°,λ62.00000°. Principal axes: T 3.6760,Plg69.0000°,Azm173.0000°; N 0.4700,Plg16.0000°,Azm34.0000°; P -4.1500,Plg13.0000°,Azm300.0000° M_o3.91300×10^{16}
MOS Error ellipse: s-maj=9.3km s-min=5.4km az=96.7.

(410) Southern Mid-Atlantic Ridge

ISC	**IV**	**19 23 29 13.0–.67**	**44.39S–.06**	**16.02W–.06**	**14–3**	**5.4b,5.2s**	**458**	**8-171**
IDC	IV	19 23 29 09.7–.40	44.32S	15.96W	0	5.1s,5.1		¶16448731
ISCJB	IV	19 23 29 11.2–.21	44.52S–.05	16.21W–.06	10	5.3b,5.1s		
MOS	IV	19 23 29 11.9–1.2	44.55S	15.67W	11	5.6b,5.1s		
NEIC	IV	19 23 29 13.0–.44	44.47S	15.85W	16–2	5.6b,5.4W		
GCMT	IV	19 23 29 13.0–.10	44.58S	15.71W	12	5.5W,5.4W		
BJI	IV	19 23 29 13.2	44.40S	16.10W	17	5.5b,5.5s		
NEIC	IV	19 23 29 14.0–.00	44.41S	15.86W	16	5.5b,5.5s		

ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=12.5km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=144.7.
MOS Error ellipse: s-maj=18.8km s-min=11.3km az=80.2.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.8km az=170.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c142; s126,c315;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.97±.02 $M_{\theta\theta}$0.28±.02; $M_{\phi\phi}$1.68±.02; $M_{r\theta}$0.11±.06; $M_{\theta\phi}$-0.47±.02; $M_{\phi r}$0.24±.05; Best double couple: NP1:ϕ_s168.00000°,δ48.00000°,λ-84.00000°. NP2:ϕ_s338.00000°,δ42.00000°,λ-97.00000°. Principal axes: T 1.8340,Plg3.0000°,Azm253.0000°; N 0.1530,Plg5.0000°,Azm344.0000°; P -1.9940,Plg84.0000°,Azm131.0000° M_o1.91400×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.43 $M_{\theta\theta}$0.50 $M_{\phi\phi}$0.93 $M_{r\theta}$-0.07 $M_{\theta\phi}$-0.60 $M_{\phi r}$0.50 Best double couple: NP1:ϕ_s153.00000°,δ54.00000°,λ-80.00000°. NP2:ϕ_s317.00000°,δ37.00000°,λ-103.00000°. Principal axes: T 1.4300,Plg9.0000°,Azm236.0000°; N 0.1000,Plg7.0000°,Azm327.0000°; P -1.5300,Plg78.0000°,Azm97.0000° M_o1.50000×10^{17}

(705) Off west coast of northern Sumatera

ISC	**IV**	**20 11 31 47.6–.44**	**4.70N–.05**	**94.44E–.05**	**42–3**	**4.5b,4.0s**	**196**	**2-159**
BJI	IV	20 11 31 43.3	4.41N	94.54E	38	4.6b,4.6b		¶16450790
ISCJB	IV	20 11 31 46.8–.78	4.69N–.04	94.54E–.04	51–7	4.5b,3.9s		
MOS	IV	20 11 31 46.9–.96	4.73N	94.59E	53	4.8b,3.9s		
IDC	IV	20 11 31 48.4–.62	4.77N	94.55E	47–5	4.3,4.2		
NEIC	IV	20 11 31 48.0–.56	4.73N	94.54E	46–5	4.7b,4.2		
KLM	IV	20 11 31 49.7	4.80N	94.61E	10	5.7s,4.6b		
DJA	IV	20 11 31 50.8–.60	5N–3.0	95E–4.0	47–8	4.9b,4.6		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.

(229) Off east coast of Honshu

ISC	**IV**	**21 00 39 04.6–.31**	**40.37N–.03**	**143.67E–.03**	**21–3**	**5.5b,5.3s**	**1506**	**2-154**
NIED	IV	21 00 39 00	40.30N	143.70E	11	5.6W,5.3s		¶16449644
JMA	IV	21 00 39 01.5–.30	40.33N	143.68E	10	5.7,5.3s		
BJI	IV	21 00 39 01.0	40.26N	143.47E	10	5.8s,5.7		
ISCJB	IV	21 00 39 01.0–.59	40.35N–.02	143.59E–.02	6–3	5.4b,5.3s		
NEIC	IV	21 00 39 03.2–.11	40.34N	143.55E	10	5.7W,5.7W		
GCMT	IV	21 00 39 03.2–.10	40.30N	143.85E	15	5.7W,5.7W		
IDC	IV	21 00 39 05.0–3.2	40.33N	143.69E	26–21	5.3,5.3s		
NEIC	IV	21 00 39 04.0–.00	40.50N	143.68E	15	5.3,5.3s		
MOS	IV	21 00 39 05.1–.97	40.48N	143.54E	33	5.7b,5.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ28.00000°,λ25.00000°. NP2:ϕ_s41.00000°,δ78.00000°,λ116.00000°. M_o3.19000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=158.9.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=148.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.81 $M_{\phi\phi}$-0.84 $M_{r\theta}$1.79 $M_{\theta\phi}$-1.39 $M_{\phi r}$2.92 Best double couple: NP1:ϕ_s243.00000°,δ17.00000°,λ120.00000°. NP2:ϕ_s32.00000°,δ76.00000°,λ82.00000°. Principal axes: T 3.7100,Plg58.0000°,Azm291.0000°; N 0.4600,Plg8.0000°,Azm34.0000°; P -4.1700,Plg30.0000°,Azm129.0000° M_o4.00000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s200.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm110.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s89,c162; s124,c307;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.60±.02 $M_{\theta\theta}$-0.10±.02; $M_{\phi\phi}$-1.51±.02; $M_{r\theta}$1.24±.07; $M_{\theta\phi}$-0.53±.01; $M_{\phi r}$3.23±.07; Best double couple: NP1:ϕ_s21.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s196.00000°,δ13.00000°,λ85.00000°. Principal axes: T 3.7890,Plg58.0000°,Azm292.0000°; N 0.0780,Plg1.0000°,Azm201.0000°; P -3.8720,Plg32.0000°,Azm110.0000° M_o3.83000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=9.3km az=86.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-0.90 $M_{r\theta}$1.20 $M_{\theta\phi}$0.20 $M_{\phi r}$4.00 Best double couple: NP1:ϕ_s15.00000°,δ84.00000°,λ95.00000°. NP2:ϕ_s149.00000°,δ7.00000°,λ44.00000°. Principal axes: T 4.3000,Plg49.0000°,Azm291.0000°; N -0.1000,Plg5.0000°,Azm195.0000°; P -4.2000,Plg39.0000°,Azm100.0000° M_o4.00000×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.9km az=104.9.

(229) Off east coast of Honshu

ISC	**IV**	**21 01 54 42.6–.38**	**40.33N–.03**	**143.74E–.03**	**19–1**	**5.7b,5.6s**	**1743**	**2-160**
NIED	IV	21 01 54 00	40.30N	143.70E	17	5.8W,5.6s		¶16449646
BJI	IV	21 01 54 37.8	40.25N	143.70E	10	6.1s,6.0		
ISCJB	IV	21 01 54 39.2–.51	40.31N–.02	143.70E–.01	6–3	5.6s,5.6b		
JMA	IV	21 01 54 40.5–.40	40.31N	143.65E	11–5	6.0,5.6b		
NEIC	IV	21 01 54 40.0–.00	40.32N	144.08E	15	6.0,5.6b		
GCMT	IV	21 01 54 41.6–.10	40.33N	143.87E	15	5.8W,5.6b		
NEIC	IV	21 01 54 41.6–.10	40.31N	143.63E	11	5.9,5.8W		
IDC	IV	21 01 54 42.8–1.8	40.34N	143.75E	22–11	5.5,5.5s		
MOS	IV	21 01 54 43.7–1.0	40.43N	143.65E	33	5.9b,5.6s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ33.00000°,λ6.00000°. NP2:ϕ_s41.00000°,δ87.00000°,λ123.00000°. M_o5.09000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=162.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-1.20 $M_{r\theta}$1.50 $M_{\theta\phi}$0.00 $M_{\phi r}$6.70 Best double couple: NP1:ϕ_s12.00000°,δ85.00000°,λ91.00000°. NP2:ϕ_s172.00000°,δ5.00000°,λ69.00000°. Principal axes: T 7.1000,Plg49.0000°,Azm284.0000°; N -0.2000,Plg1.0000°,Azm192.0000°; P -6.9000,Plg40.0000°,Azm101.0000° M_o7.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s103,c206; s122,c281;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}1.47±.03 $M_{\theta\theta}$0.17±.02; $M_{\phi\phi}$-1.65±.02; $M_{r\theta}$1.90±.09; $M_{\theta\phi}$-0.08±.02; $M_{\phi r}$6.47±.08; Best double couple: NP1:ϕ_s16.00000°,δ84.00000°,λ93.00000°. NP2:ϕ_s167.00000°,δ7.00000°,λ61.00000°. Principal axes: T 6.8820,Plg51.0000°,Azm290.0000°; N 0.0780,Plg3.0000°,Azm196.0000°; P -6.9650,Plg39.0000°,Azm103.0000° M_o6.92300×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=148.0. Felt at Ichinoseki and Misawa. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s64 Moment tensor: Scale 10^{17}Nm; M_{rr}2.87 $M_{\theta\theta}$-0.39 $M_{\phi\phi}$-2.48 $M_{r\theta}$1.24 $M_{\theta\phi}$-0.04 $M_{\phi r}$6.77 Best double couple: NP1:ϕ_s176.00000°,δ11.00000°,λ77.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ92.00000°. Principal axes: T 7.6000,Plg55.0000°,Azm283.0000°; N -0.4300,Plg2.0000°,Azm189.0000°; P -7.1600,Plg34.0000°,Azm98.0000° M_o7.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm280.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm100.0000°
IDC Error ellipse: s-maj=10.4km s-min=10.0km az=112.0.
MOS Error ellipse: s-maj=5.6km s-min=3.7km az=102.3.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 08 18 13.6–.44**	**38.33N–.03**	**142.20E–.03**	**25–2**	**5.4b,4.7s**	**1409**	**1-161**
NIED	IV	21 08 18 00	38.30N	142.20E	20	4.9W,4.7s		¶16450242
BJI	IV	21 08 18 10.5	38.33N	142.34E	28	5.1b,4.9b		
ISCJB	IV	21 08 18 12.9–.52	38.32N–.02	142.16E–.02	28–3	5.3b,4.6s		
IDC	IV	21 08 18 12.8–6.0	38.28N	142.19E	19–38	5.2,5.2		
MOS	IV	21 08 18 12.8–1.3	38.28N	142.19E	33	5.6b,4.3s		
JMA	IV	21 08 18 13.0–.10	38.32N	142.23E	31–1	5.2,4.3s		
GCMT	IV	21 08 18 16.1–.20	38.38N	142.10E	25–0	5.0W,4.3s		
NEIC	IV	21 08 18 16.1–.39	38.33N	142.09E	40–3	5.3b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ39.00000°,λ-103.00000°. NP2:ϕ_s330.00000°,δ52.00000°,λ-80.00000°. M_o2.82000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=149.6.
IDC Error ellipse: s-maj=12.6km s-min=9.8km az=100.0.
MOS Error ellipse: s-maj=4.9km s-min=3.1km az=96.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c104; s102,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.80±.13 $M_{\theta\theta}$2.45±.09; $M_{\phi\phi}$2.34±.09; $M_{r\theta}$0.17±.17; $M_{\theta\phi}$-1.55±.06; $M_{\phi r}$-0.47±.19; Best double couple: NP1:ϕ_s316.00000°,δ48.00000°,λ-87.00000°. NP2:ϕ_s132.00000°,δ42.00000°,λ-93.00000°. Principal axes: T 3.9690,Plg3.0000°,Azm44.0000°; N 0.8530,Plg2.0000°,Azm134.0000°; P -4.8320,Plg86.0000°,Azm261.0000° M_o4.40000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=139.0. Recorded [4 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 13 37 03.1–.32**	**35.64N–.02**	**140.55E–.03**	**43–2**	**5.8s,5.8b**	**1897**	**0-166**
MOS	IV	21 13 36 59.9–1.1	35.63N	140.45E	34	6.0b,5.8s		¶16450819
BJI	IV	21 13 37 00.5	35.55N	140.55E	50	6.1s,6.0		
NIED	IV	21 13 37 00	35.60N	140.90E	44	6.1W,6.0		
ISCJB	IV	21 13 37 00.9–.35	35.60N–.02	140.43E–.01	35–3	5.8s,5.8b		
JMA	IV	21 13 37 02.1–.10	35.68N	140.69E	46–1	6.0,5.8b		
NEIC	IV	21 13 37 03.3–.12	35.58N	140.31E	43	6.2W,6.2W		
NEIC	IV	21 13 37 03.0–.00	35.62N	140.65E	42	6.2W,6.2W		
GCMT	IV	21 13 37 03.3–.10	35.56N	140.78E	42–0	6.2W,6.2W		
IDC	IV	21 13 37 03.9–.81	35.62N	140.50E	52–7	5.7s,5.7		
NEIC	IV	21 13 37 20.8–.00	35.82N	140.87E	45	5.7s,5.7		

ISC Event type fe.
MOS Error ellipse: s-maj=7.2km s-min=4.3km az=104.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ26.00000°,λ121.00000°. NP2:ϕ_s0.00000°,δ68.00000°,λ76.00000°. M_o1.65000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=160.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s4.00000°,δ68.00000°,λ85.00000°. NP2: ϕ_s198.00000°,δ22.00000°,λ103.00000°. Principal axes: T Plg66.0000°,Azm265.0000°; N Plg5.0000°,Azm6.0000°; P Plg23.0000°,Azm98.0000°
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=146.0. Felt [IV] at Narita, Tokyo and Yokohama; [III] at Yokosuka. Felt widely in southeastern Honshu. Recorded [5L JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o1.90000×10^{18} Moment Tensor Solution. s84 Moment tensor: Scale 10^{18}Nm; M_{rr}1.08 $M_{\theta\theta}$0.15 $M_{\phi\phi}$-1.23 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.34 $M_{\phi r}$1.36 Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ84.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ92.00000°. Principal axes: T 1.7400,Plg65.0000°,Azm289.0000°; N 0.2200,Plg2.0000°,Azm195.0000°; P -1.9700,Plg25.0000°,Azm104.0000° M_o1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s175.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s355.00000°,δ70.00000°,λ90.00000°. Principal axes: T Plg65.0000°,Azm265.0000°; N Plg0.0000°,Azm0.0000°; P Plg25.0000°,Azm85.0000°
NEIC Event type se. Moment Tensor Solution. s75 Moment tensor: Scale 10^{18}Nm; M_{rr}1.23 $M_{\theta\theta}$-0.17 $M_{\phi\phi}$-1.06 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.03 $M_{\phi r}$1.93 Best double couple: NP1:ϕ_s1.00000°,δ75.00000°,λ90.00000°. NP2:ϕ_s182.00000°,δ15.00000°,λ91.00000°. Principal axes: T 2.3300,Plg60.0000°,Azm271.0000°; N -0.1700,Plg0.0000°,Azm1.0000°; P -2.1600,Plg29.0000°,Azm91.0000° M_o2.30000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c302; s135,c474;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}1.81±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$-1.90±.01; $M_{r\theta}$-0.17±.01; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$1.42±.02; Best double couple: NP1:ϕ_s359.00000°,δ64.00000°,λ81.00000°. NP2:ϕ_s198.00000°,δ27.00000°,λ107.00000°. Principal axes: T 2.3210,Plg70.0000°,Azm251.0000°; N 0.0800,Plg8.0000°,Azm2.0000°; P -2.3990,Plg18.0000°,Azm95.0000° M_o2.36000×10^{18}
IDC Error ellipse: s-maj=10.3km s-min=7.9km az=72.0.
NEIC Event type se. Moment Tensor Solution. s73 Moment tensor: Scale 10^{18}Nm; M_{rr}1.75 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$-1.64 $M_{r\theta}$-0.01 $M_{\theta\phi}$-0.31 $M_{\phi r}$1.49 Best double couple: NP1:ϕ_s198.00000°,δ25.00000°,λ103.00000°. NP2:ϕ_s4.00000°,δ65.00000°,λ84.00000°. Principal axes: T 2.3200,Plg69.0000°,Azm262.0000°; N -0.0800,Plg5.0000°,Azm6.0000°; P -2.2400,Plg20.0000°,Azm98.0000° M_o2.30000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 16 11 17.0–.32**	**37.53N–.03**	**141.36E–.03**	**47–2**	**5.6b,5.2s**	**1664**	**0-161**
NIED	IV	21 16 11 00	37.50N	141.50E	53	5.6W,5.2s		¶602557845
BJI	IV	21 16 11 12.7	37.42N	141.50E	38	5.5b,5.4b		
MOS	IV	21 16 11 14.1–.92	37.56N	141.34E	33	5.8b,5.2s		
ISCJB	IV	21 16 11 16.7–.27	37.57N–.02	141.29E–.02	52–2	5.6b,5.2s		
JMA	IV	21 16 11 16.9–.10	37.51N	141.45E	48–1	5.6,5.2s		
IDC	IV	21 16 11 17.9–.45	37.54N	141.32E	53–4	5.4,5.2		
GCMT	IV	21 16 11 18.5–.10	37.55N	141.49E	54–0	5.6W,5.2		
NEIC	IV	21 16 11 18.0–.00	37.55N	141.22E	56	5.6W,5.2		
NEIC	IV	21 16 11 18.4–.40	37.55N	141.22E	56–3	5.7W,5.6W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ24.00000°,λ72.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ98.00000°. M_o2.68000×10^{17}
MOS Error ellipse: s-maj=6.0km s-min=3.7km az=98.5.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=155.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s33.00000°,δ56.00000°,λ98.00000°. NP2:ϕ_s198.00000°,δ35.00000°,λ78.00000°. Principal axes: T Plg77.0000°,Azm330.0000°; N Plg7.0000°,Azm208.0000°; P Plg11.0000°,Azm117.0000°
IDC Error ellipse: s-maj=10.1km s-min=8.3km az=112.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s111,c214; s126,c286;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.74±.04 $M_{\theta\theta}$-0.30±.03; $M_{\phi\phi}$-2.43±.03; $M_{r\theta}$0.78±.03; $M_{\theta\phi}$-0.85±.03; $M_{\phi r}$1.88±.03; Best double couple: NP1:ϕ_s21.00000°,δ63.00000°,λ92.00000°. NP2:ϕ_s198.00000°,δ27.00000°,λ87.00000°. Principal axes:

T 3.4150,Plg72.0000°,Azm295.0000°; N -0.0070,Plg1.0000°,Azm200.0000°
; P -3.4000,Plg18.0000°,Azm110.0000° $M_0$3.40800×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.37 $M_{\theta\theta}$-0.45 $M_{\phi\phi}$-0.92 $M_{r\theta}$1.51 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.82 Best double couple: NP1:ϕ_s40.00000° ,δ73.00000°,λ91.00000°. NP2:ϕ_s217.00000°,δ17.00000°,λ87.00000°. Principal axes: T 2.6500,Plg61.0000°,Azm310.0000°; N 0.3600,Plg0.0000°,Azm219.0000°
; P -3.0100,Plg28.0000°,Azm128.0000° $M_0$2.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=138.0. Felt at Ichinoseki, Sakado, Sendai, Tokyo and Yokohama. Recorded [4 JMA] in Fukushima and Miyagi. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}3.75 $M_{\theta\theta}$-0.56 $M_{\phi\phi}$-3.19 $M_{r\theta}$0.82 $M_{\theta\phi}$-0.93 $M_{\phi r}$2.07 Best double couple: NP1:ϕ_s196.00000°,δ29.00000°,λ87.00000°. NP2:ϕ_s20.00000° ,δ61.00000°,λ92.00000°. Principal axes: T 4.3800,Plg74.0000°,Azm294.0000°
; N -0.2700,Plg2.0000°,Azm199.0000°; P -4.1100,Plg16.0000°,Azm108.0000°
$M_0$4.30000×10^{17}

(273) Southwest of Sumatera

ISC	**IV**	**22 02 19 53.0–1.0**	**6.7S–.10**	**102.6E–.10**	**24**	**4.3b**	**39**	**2-147**
ISCJB	IV	22 02 19 50.2–.65	6.81S–.06	102.48E–.06	24	4.2b		**¶16577861**
IDC	IV	22 02 19 50.0–1.6	6.70S	102.58E	0	4.2,4.1b		
NEIC	IV	22 02 19 53.1–1.0	7.03S	102.07E	35	4.4b,4.1b		
DJA	IV	22 02 19 53.0–.50	7S–4.0	103E–4.0	79–34	5.6b,5.1		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(282) South of Jawa

ISC	**IV**	**22 05 17 55.1–.72**	**9.36S–.08**	**110.41E–.07**	**35**	**4.3b,3.5s**	**47**	**1-118**
ISCJB	IV	22 05 17 53.8–.45	9.40S–.05	110.39E–.03	33	4.2b,3.9s		**¶16532315**
DJA	IV	22 05 17 54.9–.30	9S–3.0	110E–2.0	10	6.0b,5.7		
NEIC	IV	22 05 18 02.8–1.0	9.17S	110.62E	106–9	4.0b,5.7		
IDC	IV	22 05 18 06.0–1.1	9.12S	110.50E	133–6	4.2,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.3km az=16.8.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=7.9km az=214.0.
IDC Error ellipse: s-maj=35.9km s-min=14.4km az=48.0.

(227) Eastern Honshu

ISC	**IV**	**22 15 25 17.5–.40**	**37.21N–.03**	**141.05E–.03**	**25–2**	**5.5b,4.6s**	**1513**	**0-161**
NIED	IV	22 15 25 00	37.20N	141.30E	11	5.1W,4.6s		**¶16451861**
IDC	IV	22 15 25 13.8–.32	37.17N	141.12E	0	5.2,5.2		
BJI	IV	22 15 25 15.3	37.10N	141.21E	36	5.1b,5.1s		
ISCJB	IV	22 15 25 16.9–.35	37.20N–.02	141.00E–.02	28–2	5.4b,4.6s		
JMA	IV	22 15 25 16.1–.10	37.17N	141.19E	21–1	5.4,4.6s		
NEIC	IV	22 15 25 17.8–1.1	37.23N	140.99E	24–7	5.5b,4.5s		
GCMT	IV	22 15 25 17.8–.20	37.24N	141.16E	16–0	5.2W,4.5s		
MOS	IV	22 15 25 19.5–.87	37.64N	140.96E	33	5.7b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ43.00000°,λ-96.00000°. NP2:ϕ_s231.00000°,δ47.00000°,λ-85.00000°. $M_0$4.30000×10^{16}
IDC Error ellipse: s-maj=9.8km s-min=8.0km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=160.7.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s14.00000° ,δ63.00000°,λ-106.00000°. NP2:ϕ_s225.00000°,δ31.00000°,λ-62.00000°. Principal axes: T Plg17.0000°,Azm115.0000°; N Plg14.0000°,Azm21.0000°; P Plg68.0000°,Azm253.0000°
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=149.0. Recorded [5L JMA] in Fukushima.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c113; s107,c193; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.94±.18 $M_{\theta\theta}$3.78±.12; $M_{\phi\phi}$3.17±.12; $M_{r\theta}$-0.55±.30; $M_{\theta\phi}$2.84±.07; $M_{\phi r}$0.86±.32; Best double couple: NP1:ϕ_s221.00000°,δ46.00000° ,λ-100.00000°. NP2:ϕ_s55.00000°,δ45.00000°,λ-79.00000°. Principal axes: T 6.3330,Plg1.0000°,Azm318.0000°; N 0.7500,Plg7.0000°,Azm228.0000°
; P -7.0740,Plg83.0000°,Azm54.0000° $M_0$6.70400×10^{16}
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=101.1.

(174) Tonga Islands region

ISC	**IV**	**22 17 14 52.7–.33**	**23.01S–.04**	**174.46W–.04**	**35–2**	**5.5b,5.2s**	**1395**	**7-180**
BJI	IV	22 17 14 46.0	22.58S	173.95W	5	6.1b,5.4b		**¶16505488**
IDC	IV	22 17 14 48.0–.40	22.76S	174.64W	0	5.2,5.2		
ISCJB	IV	22 17 14 51.2–.09	22.88S–.03	174.56W–.02	33	5.5b,5.2s		
NEIC	IV	22 17 14 51.2–1.6	22.81S	174.59W	22–11	5.5b,5.2s		
GCMT	IV	22 17 14 51.2–.10	22.90S	174.18W	13–0	5.5W,5.2s		
MOS	IV	22 17 14 52.3–1.0	22.64S	174.75W	33	5.7b,5.2s		

ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.0km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.3km az=150.7.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c156; s125,c239; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.13±.04 $M_{\theta\theta}$0.39±.03; $M_{\phi\phi}$1.75±.03; $M_{r\theta}$0.17±.09; $M_{\theta\phi}$1.41±.03; $M_{\phi r}$0.35±.08; Best double couple: NP1:ϕ_s211.00000°,δ50.00000° ,λ-92.00000°. NP2:ϕ_s34.00000°,δ40.00000°,λ-88.00000°. Principal axes: T 2.6650,Plg5.0000°,Azm302.0000°; N -0.4980,Plg2.0000°,Azm212.0000°
; P -2.1620,Plg85.0000°,Azm104.0000° $M_0$2.41400×10^{17}
MOS Error ellipse: s-maj=8.8km s-min=7.0km az=62.4.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 10 12 46.9–.27**	**39.17N–.02**	**142.94E–.02**	**32–1**	**5.8b,5.7s**	**1871**	**1-165**
NIED	IV	23 10 12 00	39.10N	143.00E	35	5.9W,5.7s		**¶16452561**
ISCJB	IV	23 10 12 45.4–.49	39.13N–.01	142.93E–.01	30–3	5.8b,5.7s		
BJI	IV	23 10 12 45.1	39.03N	142.83E	34	5.9,5.9b		
MOS	IV	23 10 12 46.3–.95	39.25N	142.92E	33	5.9b,5.8s		
JMA	IV	23 10 12 46.2–.10	39.13N	143.00E	35–3	6.1,5.8s		
NEIC	IV	23 10 12 47.0–.10	39.10N	142.87E	31	6.0,6.0W		
IDC	IV	23 10 12 47.4–1.8	39.09N	142.91E	34–13	5.6,5.6s		
GCMT	IV	23 10 12 47.0–.10	39.21N	142.91E	30–0	6.0W,5.6s		
NEIC	IV	23 10 12 48.0–.00	38.96N	143.09E	38	6.0W,5.6s		
NEIC	IV	23 10 13 01.9–.00	39.18N	142.69E	32	6.0W,5.6s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ42.00000°,λ56.00000°. NP2:ϕ_s301.00000°,δ56.00000°,λ117.00000°. $M_0$8.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.7km az=160.6.
MOS Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=105.1. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=138.0. Felt [II] at Misawa and Tokyo. Also felt at Atsugi and Ichinoseki. Recorded [3 JMA] in Aomori, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s97 Moment tensor: Scale 10^{17}Nm; M_{rr}4.97 $M_{\theta\theta}$-8.10 $M_{\phi\phi}$3.12 $M_{r\theta}$-0.57 $M_{\theta\phi}$1.07 $M_{\phi r}$1.14 Best double couple: NP1:ϕ_s72.00000° ,δ48.00000°,λ55.00000°. NP2:ϕ_s298.00000°,δ53.00000°,λ122.00000°. Principal axes: T 5.5200,Plg65.0000°,Azm269.0000°; N 2.7100,Plg25.0000°,Azm97.0000°
; P -8.2300,Plg3.0000°,Azm6.0000° $M_0$7.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s120.00000°,δ25.00000°,λ90.00000°. NP2: ϕ_s300.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm210.0000°
; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm30.0000°
IDC Error ellipse: s-maj=9.6km s-min=7.4km az=66.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c286; s138,c425;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}1.05±.01 $M_{\theta\theta}$-1.00±.01; $M_{\phi\phi}$-0.05±.01; $M_{r\theta}$-0.30±.01; $M_{\theta\phi}$0.19±.01; $M_{\phi r}$0.20±.01; Best double couple: NP1: ϕ_s288.00000°,δ54.00000°,λ98.00000°. NP2:ϕ_s94.00000°,δ36.00000°,λ78.00000°. Principal axes: T 1.1210,Plg79.0000°,Azm230.0000°; N -0.0340,Plg7.0000°,Azm103.0000°
; P -1.0900,Plg9.0000°,Azm12.0000° $M_0$1.10500×10^{18}
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}7.65 $M_{\theta\theta}$-6.82 $M_{\phi\phi}$-0.83 $M_{r\theta}$-3.72 $M_{\theta\phi}$1.62 $M_{\phi r}$0.40 Best double couple: NP1:ϕ_s281.00000° ,δ58.00000°,λ86.00000°. NP2:ϕ_s107.00000°,δ32.00000°,λ96.00000°. Principal axes: T 8.5500,Plg76.0000°,Azm180.0000°; N -0.4500,Plg2.0000°,Azm282.0000°
; P -8.1100,Plg13.0000°,Azm13.0000° $M_0$8.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s60 Moment tensor: Scale 10^{18}Nm; M_{rr}1.03 $M_{\theta\theta}$-1.01 $M_{\phi\phi}$-0.02 $M_{r\theta}$0.41 $M_{\theta\phi}$0.26 $M_{\phi r}$-0.02 Best double couple: NP1:ϕ_s288.00000° ,δ35.00000°,λ97.00000°. NP2:ϕ_s100.00000°,δ56.00000°,λ85.00000°. Principal axes: T 1.1100,Plg79.0000°,Azm353.0000°; N 0.0400,Plg4.0000°,Azm103.0000°
; P -1.1500,Plg10.0000°,Azm193.0000° $M_0$1.10000×10^{18}

(410) Southern Mid-Atlantic Ridge

ISC	**IV**	**24 21 09 33.5–.38**	**35.70S–.08**	**17.19W–.08**	**10**	**5.1s,4.9b**	**76**	**4-162**
ISCJB	IV	24 21 09 30.5–.33	35.81S–.07	17.02W–.06	10	5.1s,4.8b		**¶16453176**
IDC	IV	24 21 09 31.4–.63	35.60S	16.94W	0	4.9s,4.9		
GCMT	IV	24 21 09 32.7–.10	35.49S	16.93W	18–0	5.7W,4.9		
NEIC	IV	24 21 09 32.7–.40	35.70S	16.99W	10	5.6W,5.1s		
NEIC	IV	24 21 09 35.0–.00	35.27S	17.47W	15	5.6W,5.1s		
BJI	IV	24 21 09 36.8	35.30S	17.50W	10	5.6b,5.3s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=7.2km az=4.7.
IDC Error ellipse: s-maj=22.5km s-min=17.1km az=169.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c206; s133,c355;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21±.04 $M_{\theta\theta}$-1.30±.04; $M_{\phi\phi}$1.51±.04; $M_{r\theta}$-0.65±.09; $M_{\theta\phi}$3.38±.03; $M_{\phi r}$0.79±.09; Best double couple: NP1: ϕ_s170.00000°,δ83.00000°,λ-166.00000°. NP2:ϕ_s78.00000°,δ76.00000°,λ-8.00000°. Principal axes: T 3.7890,Plg4.0000°,Azm303.0000°; N 0.0360,Plg74.0000°,Azm197.0000°
; P -3.8210,Plg15.0000°,Azm34.0000° $M_0$3.80500×10^{17}
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=10.3km az=177.0.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$0.60 $M_{r\theta}$-1.20 $M_{\theta\phi}$2.70 $M_{\phi r}$-1.50 Best double couple: NP1:ϕ_s267.00000° ,δ71.00000°,λ20.00000°. NP2:ϕ_s170.00000°,δ70.00000°,λ160.00000°. Principal axes: T 3.8000,Plg27.0000°,Azm128.0000°; N -1.0000,Plg62.0000°,Azm306.0000°
; P -2.7000,Plg0.0000°,Azm38.0000° $M_0$3.00000×10^{17}

(410) Southern Mid-Atlantic Ridge

ISC	**IV**	**24 22 44 15.5–.43**	**35.8S–.10**	**17.07W–.07**	**10**	**5.3s,4.8b**	**104**	**4-163**
ISCJB	IV	24 22 44 14.5–.27	35.38S–.05	17.03W–.06	10	5.4s,4.8b		**¶16459938**
IDC	IV	24 22 44 14.2–.58	35.51S	17.00W	0	4.8s,4.8		
NEIC	IV	24 22 44 15.8–.35	35.42S	16.96W	10	5.6W,5.4s		
GCMT	IV	24 22 44 16.1–.10	35.47S	16.82W	20–0	5.6W,5.4s		
NEIC	IV	24 22 44 16.0–.00	35.44S	17.42W	15	5.6W,5.4s		
BJI	IV	24 22 44 18.7	35.20S	17.00W	10	5.9s,5.6b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=7.1km az=155.6.
IDC Error ellipse: s-maj=19.9km s-min=15.6km az=177.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.7km az=177.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s75,c117; s116,c274;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.04 $M_{\theta\theta}$-1.06±.04; $M_{\phi\phi}$1.09±.04; $M_{r\theta}$-0.49±.09; $M_{\theta\phi}$2.35±.04; $M_{\phi r}$0.94±.10; Best double couple: NP1: ϕ_s168.00000°,δ85.00000°,λ-159.00000°. NP2:ϕ_s77.00000°,δ69.00000°,λ-5.00000°. Principal axes: T 2.7050,Plg11.0000°,Azm301.0000°; N 0.1590,Plg68.0000°,Azm180.0000°
; P -2.8740,Plg18.0000°,Azm35.0000° $M_0$2.78900×10^{17}
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.60 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$-0.40 $M_{r\theta}$-1.30 $M_{\theta\phi}$2.80 $M_{\phi r}$0.30 Best double couple: NP1:ϕ_s273.00000° ,δ86.00000°,λ26.00000°. NP2:ϕ_s181.00000°,δ64.00000°,λ175.00000°. Principal axes: T 2.7000,Plg20.0000°,Azm140.0000°; N 0.7000,Plg63.0000°,Azm280.0000°
; P -3.4000,Plg15.0000°,Azm44.0000° $M_0$3.00000×10^{17}

(268) Sulawesi

ISC	**IV**	**24 23 07 54.7–.34**	**4.48S–.03**	**122.86E–.03**	**28–2**	**5.8s,5.7b**	**901**	**3-174**
BJI	IV	24 23 07 48.6	4.60S	122.75E	10	5.9s,5.8		**¶16453181**
IDC	IV	24 23 07 49.6–.33	4.37S	122.75E	0	5.7,5.7s		
ISCJB	IV	24 23 07 51.6–.50	4.41S–.02	122.94E–.02	19–3	5.7s,5.6b		
NEIC	IV	24 23 07 51.5–.19	4.59S	122.77E	8	6.1W,6.1W		
NEIC	IV	24 23 07 51.0–.00	4.59S	122.81E	15	6.1W,6.1W		
GCMT	IV	24 23 07 51.5–.10	4.27S	122.80E	15	6.1W,6.1W		
KLM	IV	24 23 07 52.1	4.38S	123.03E	10	6.3L,6.3s		
DJA	IV	24 23 07 54.0–.60	4S–2.0	123E–1.0	12–5	6.2b,6.1		
MOS	IV	24 23 07 54.1–1.9	4.42S	122.86E	33	5.9b,5.7s		
NEIC	IV	24 23 08 09.7–.00	4.02S	122.89E	10	5.9b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=169.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=57.0. Felt [IV] at Kendari. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13 $M_{\theta\theta}$1.31 $M_{\phi\phi}$-1.44 $M_{r\theta}$0.29 $M_{\theta\phi}$-0.69 $M_{\phi r}$0.05 Best double couple: NP1:ϕ_s149.00000°,δ80.00000° ,λ5.00000°. NP2:ϕ_s58.00000°,δ85.00000°,λ169.00000°. Principal axes: T 1.5200,Plg11.0000°,Azm13.0000°; N 0.0800,Plg78.0000°,Azm212.0000°
; P -1.6100,Plg4.0000°,Azm104.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.30 $M_{\theta\theta}$1.18 $M_{\phi\phi}$-0.88 $M_{r\theta}$1.38 $M_{\theta\phi}$-0.35 $M_{\phi r}$0.76 Best double couple: NP1:ϕ_s241.00000° ,δ84.00000°,λ-123.00000°. NP2:ϕ_s142.00000°,δ34.00000°,λ-9.00000°. Principal axes: T 2.0100,Plg31.0000°,Azm357.0000°; N -0.1600,Plg33.0000°,Azm244.0000°
; P -1.8500,Plg40.0000°,Azm119.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c295; s137,c466;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.26±.01 $M_{\theta\theta}$1.67±.01; $M_{\phi\phi}$-1.41±.01; $M_{r\theta}$0.66±.03; $M_{\theta\phi}$-0.47±.01; $M_{\phi r}$0.80±.03; Best double couple: NP1:ϕ_s236.00000°,δ81.00000°,λ-148.00000°. NP2:ϕ_s141.00000° ,δ58.00000°,λ-10.00000°. Principal axes: T 1.8870,Plg15.0000°,Azm4.0000°
; N 0.0730,Plg57.0000°,Azm249.0000°; P -1.9600,Plg28.0000°,Azm103.0000°
$M_0$1.92400×10^{18}
MOS Error ellipse: s-maj=7.6km s-min=4.4km az=111.8.
NEIC Event type se. Moment Tensor Solution. s90 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.12 $M_{\theta\theta}$1.38 $M_{\phi\phi}$-1.26 $M_{r\theta}$0.51 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s138.00000° ,δ55.00000°,λ-17.00000°. NP2:ϕ_s238.00000°,δ76.00000°,λ-144.00000°. Principal axes: T 1.5400,Plg14.0000°,Azm4.0000°; N 1.1000,Plg52.0000°,Azm256.0000°
; P -2.6400,Plg35.0000°,Azm103.0000° $M_0$2.10000×10^{18}

(268) Sulawesi

ISC	**IV**	**24 23 25 14.3–.30**	**4.20S–.04**	**122.64E–.04**	**35**	**5.2s,4.7b**	**164**	**3-157**
BJI	IV	24 23 25 08.2	4.20S	122.60E	10	5.4b,5.3s		**¶16453182**
IDC	IV	24 23 25 09.1–.44	4.10S	122.55E	0	4.6,4.5		
NEIC	IV	24 23 25 09.6–2.6	4.13S	122.63E	6–16	4.8b,4.5		
ISCJB	IV	24 23 25 11.9–.18	4.16S–.03	122.66E–.02	33	5.3s,4.7b		
MOS	IV	24 23 25 12.2–1.3	4.18S	122.65E	33	4.9b,4.7b		
DJA	IV	24 23 25 12.3–.20	4S–2.0	123E–2.0	10	6.5b,6.3		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Kendari.
ISCJB Event type fe.

(59) Guerrero

ISC	**IV**	**26 11 07 28.2–.43**	**16.97N–.02**	**99.59W–.02**	**19–1**	**5.2b,4.9s**	**1073**	**0-153**
IDC	IV	26 11 07 24.7–.55	16.84N	99.48W	0	4.8,4.8		**¶16460262**
ISCJB	IV	26 11 07 25.8–.17	16.99N–.02	99.40W–.02	10	5.2b,4.9s		
GCMT	IV	26 11 07 27.0–.20	16.91N	99.45W	23–0	5.4W,4.9s		
NEIC	IV	26 11 07 27.0–.18	16.85N	99.47W	11	5.5,5.5W		
MOS	IV	26 11 07 28.8–.99	16.92N	99.37W	33	5.4b,4.9s		
MEX	IV	26 11 07 28.0–1.0	16.71N	99.68W	8–4	5.5,4.9s		
BJI	IV	26 11 07 29.5	17.10N	99.40W	20	5.5s,5.4b		

ISC Event type fe.
IDC Error ellipse: s-maj=17.2km s-min=10.4km az=48.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=13.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c108; s106,c191; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10±.04 $M_{\theta\theta}$-0.91±.02; $M_{\phi\phi}$-0.19±.02; $M_{r\theta}$0.85±.04; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$-0.63±.04; Best double couple: NP1:ϕ_s121.00000°,δ68.00000° ,λ98.00000°. NP2:ϕ_s281.00000°,δ24.00000°,λ72.00000°. Principal axes: T 1.5580,Plg66.0000°,Azm45.0000°; N -0.1280,Plg7.0000°,Azm298.0000°
; P -1.4340,Plg22.0000°,Azm205.0000° $M_0$1.49600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=202.0. Felt [V] at Acapulco and [II] at Mexico. Also felt at Acambay, Acamixtla, Cuernavaca, Huixquilucan, Oaxaca, Puebla and San Jeronimo. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.53 $M_{\theta\theta}$-2.32 $M_{\phi\phi}$0.79 $M_{r\theta}$-0.02 $M_{\theta\phi}$1.04 $M_{\phi r}$-0.73 Best double couple: NP1:ϕ_s137.00000° ,δ58.00000°,λ135.00000°. NP2:ϕ_s256.00000°,δ53.00000°,λ42.00000°. Principal axes: T 2.0500,Plg53.0000°,Azm104.0000°; N 0.5900,Plg36.0000°,Azm289.0000°
; P -2.6400,Plg3.0000°,Azm197.0000° $M_0$2.40000×10^{17}
MOS Error ellipse: s-maj=8.7km s-min=3.9km az=96.8.
MEX Error ellipse: s-maj=5.2km s-min=3.5km az=-1.0.

(49) Gulf of California

ISC	**IV**	**26 21 10 25.9–.31**	**27.60N–.04**	**111.40W–.03**	**10**	**5.1s,5.0b**	**932**	**1-142**
ECX	IV	26 21 10 21.0–1.8	27.54N	111.32W	8–32	5.5,5.0b		**¶602546222**
ISCJB	IV	26 21 10 24.4–.19	27.63N–.02	111.27W–.01	10	5.1s,4.9b		
IDC	IV	26 21 10 24.4–.54	27.65N	111.41W	0	4.9,4.9s		
MEX	IV	26 21 10 24.4–.63	27.57N	111.46W	13	5.4,4.9s		

GCMT IV 26 21 10 25.6–.10 27.67N 111.54W 18–0 5.4W,4.9s
NEIC IV 26 21 10 25.6–1.2 27.46N 111.53W 11–7 5.4,5.3W
BJI IV 26 21 10 25.1 27.40N 111.60W 15 5.6b,5.6s
NEIC IV 26 21 10 26.0–.00 27.44N 111.60W 15 5.6b,5.6s
MOS IV 26 21 10 26.0–1.2 27.61N 111.36W 20 5.4s,5.2b
ISC Event type fe.
ECX Error ellipse: s-maj=22.8km s-min=23.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=25.1.
IDC Error ellipse: s-maj=15.0km s-min=9.5km az=46.0.
MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c135; s120,c224; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.02 $M_{\theta\theta}$-1.57±.03; $M_{\phi\phi}$1.64±.03; $M_{r\theta}$-0.31±.06; $M_{\theta\phi}$-0.53±.02; $M_{\phi r}$-0.06±.05; Best double couple: NP1:ϕ_s35.00000°,δ82.00000°,λ-8.00000°. NP2:ϕ_s126.00000°,δ82.00000°,λ-172.00000°. Principal axes: T 1.7250,Plg0.0000°,Azm81.0000°; N -0.0110,Plg79.0000°,Azm172.0000° ; P -1.7160,Plg11.0000°,Azm351.0000° $M_0$1.72000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=216.0. Felt [III] at Guaymas and [II] at Hermosillo, Sonora. Also felt at Agua Prieta, Bahia de Kino, Empalme and Kino. Felt at Santa Rosalia, Baja California Sur.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr} 0.10 $M_{\theta\theta}$-1.30 $M_{\phi\phi}$1.40 $M_{r\theta}$0.40 $M_{\theta\phi}$0.00 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s316.00000°,δ84.00000°,λ-163.00000°. NP2:ϕ_s224.00000°,δ73.00000°,λ-5.00000°. Principal axes: T 1.4000,Plg7.0000°,Azm89.0000°; N 0.0000,Plg72.0000°,Azm334.0000° ; P -1.4000,Plg15.0000°,Azm181.0000° $M_0$1.00000×10^{17}
MOS Error ellipse: s-maj=7.7km s-min=4.3km az=97.5.

(289) Timor region

ISC	**IV**	**26 21 43 48.2–.48**	**9.02S–.03**	**125.68E–.03**	**20–2**	**5.4b,4.9s**	**1083**	**2-172**
IDC	IV	26 21 43 45.1–.33	8.94S	125.57E	0	5.3,5.3b		¶16462191
ISCJB	IV	26 21 43 46.4–.91	8.95S–.02	125.63E–.02	21–6	5.3b,4.9s		
NEIC	IV	26 21 43 47.5–2.0	8.81S	125.66E	10–11	5.5b,5.0s		
GCMT	IV	26 21 43 47.5–.10	9.24S	125.81E	22–0	5.3W,5.0s		
BJI	IV	26 21 43 48.3	8.90S	125.70E	25	5.2b,5.2b		
MOS	IV	26 21 43 49.4–1.6	8.78S	125.55E	33	5.6b,4.9s		
DJA	IV	26 21 43 52.1–.30	9S–2.0	126E–2.0	50–5	5.8,5.7b		
KLM	IV	26 21 43 56.1	9.03S	125.66E	85	6.0s,5.4b		

ISC Event type fe.
IDC Error ellipse: s-maj=13.5km s-min=9.7km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.3km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.4km az=47.0. Felt [II] at Dili.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c146; s92,c177; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.91±.03 $M_{\theta\theta}$-0.92±.02; $M_{\phi\phi}$0.01±.02; $M_{r\theta}$0.23±.03; $M_{\theta\phi}$-0.33±.01; $M_{\phi r}$-0.19±.04; Best double couple: NP1:ϕ_s88.00000°,δ52.00000°,λ110.00000°. NP2:ϕ_s237.00000°,δ43.00000°,λ66.00000°. Principal axes: T 0.9910,Plg73.0000°,Azm57.0000°; N 0.0440,Plg16.0000°,Azm255.0000° ; P -1.0350,Plg5.0000°,Azm164.0000° $M_0$1.01300×10^{17}
MOS Error ellipse: s-maj=8.3km s-min=5.2km az=105.5.

(706) Northern Sumatera

ISC	**IV**	**27 04 55 29.3–.41**	**2.14N–.05**	**96.62E–.05**	**28**	**4.8b,4.1s**	**175**	**1-145**
KLM	IV	27 04 55 28.0	2.18N	96.45E	28	5.6s,4.8b		¶16463267
ISCJB	IV	27 04 55 27.4–.27	2.13N–.03	96.64E–.03	28	4.7b,4.1s		
DJA	IV	27 04 55 28.2–1.7	2N–3.0	97E–7.0	13–14	5.0b,4.9		
MOS	IV	27 04 55 28.0–1.1	2.14N	96.68E	33	5.1b,4.9		
NEIC	IV	27 04 55 31.1–.70	2.15N	96.71E	43–6	4.8b,4.9		
IDC	IV	27 04 55 31.1–2.5	2.17N	96.74E	43–22	4.6,4.6L		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=44.6.
MOS Error ellipse: s-maj=10.2km s-min=6.1km az=100.5.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=54.0.
IDC Error ellipse: s-maj=15.5km s-min=10.9km az=46.0.

(193) Bougainville-Solomon Islands region

ISC	**IV**	**28 07 42 38.5–.29**	**10.06S–.04**	**160.60E–.04**	**37**	**5.4s,5.2b**	**339**	**1-165**
IDC	IV	28 07 42 32.5–.70	10.28S	160.46E	0	5.1s,5.1		¶16505559
NEIC	IV	28 07 42 34.0–.00	9.98S	160.33E	15	5.1s,5.1		
NEIC	IV	28 07 42 34.9–.18	9.97S	160.49E	11	5.7W,5.7W		
GCMT	IV	28 07 42 35.3–.10	10.23S	160.45E	12	5.6W,5.7W		
MOS	IV	28 07 42 36.7–1.2	10.01S	160.43E	33	5.2b,5.2s		
BJI	IV	28 07 42 37.1	9.56S	160.41E	12	5.5b,5.5s		
ISCJB	IV	28 07 42 37.0–.16	10.09S–.03	160.47E–.03	37	5.4s,5.1b		

ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.35 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.34 $M_{r\theta}$3.96 $M_{\theta\phi}$0.67 $M_{\phi r}$-3.06 Best double couple: NP1:ϕ_s129.00000°,δ83.00000°,λ81.00000°. NP2:ϕ_s0.00000°,δ11.00000°,λ141.00000°. Principal axes: T 5.3000,Plg51.0000°,Azm29.0000°; N -0.1500,Plg8.0000°,Azm130.0000° ; P -5.1500,Plg37.0000°,Azm227.0000° $M_0$5.20000×10^{17}
NEIC Event type se. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.45 $M_{\theta\theta}$-1.78 $M_{\phi\phi}$2.23 $M_{r\theta}$1.82 $M_{\theta\phi}$-1.37 $M_{\phi r}$-2.84 Best double couple: NP1: ϕ_s312.00000°,δ85.00000°,λ-121.00000°. NP2:ϕ_s214.00000°,δ32.00000°,λ-10.00000°. Principal axes: T 4.7400,Plg33.0000°,Azm68.0000°; N -1.6000,Plg31.0000°,Azm315.0000° ; P -3.1400,Plg42.0000°,Azm193.0000° $M_0$4.20000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c167; s126,c263;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50±.02 $M_{\theta\theta}$-0.43±.02; $M_{\phi\phi}$-1.06±.02; $M_{r\theta}$1.81±.07; $M_{\theta\phi}$0.73±.02; $M_{\phi r}$-2.39±.07; Best double couple: NP1:ϕ_s143.00000°,δ77.00000°,λ88.00000°. NP2:ϕ_s330.00000°,δ14.00000°,λ97.00000°. Principal axes: T 3.3430,Plg58.0000°,Azm51.0000° ; N 0.0460,Plg2.0000°,Azm144.0000°; P -3.3820,Plg32.0000°,Azm235.0000° $M_0$3.36300×10^{17}
ISCJB Event type se.

(228) Near east coast of eastern Honshu

ISC	**IV**	**28 09 27 47.9–.32**	**37.49N–.03**	**141.70E–.03**	**45–2**	**5.7b,5.1s**	**1736**	**1-164**
NIED	IV	28 09 27 00	37.40N	141.80E	47	5.6W,5.1s		¶16465967
BJI	IV	28 09 27 44.9	37.38N	141.72E	46	5.4b,5.3b		
MOS	IV	28 09 27 45.2–.78	37.68N	141.63E	28	5.8b,5.1s		
IDC	IV	28 09 27 45.5–4.6	37.44N	141.75E	28–31	5.4,5.3		
ISCJB	IV	28 09 27 46.9–.29	37.44N–.02	141.69E–.01	49–2	5.6b,5.2s		
JMA	IV	28 09 27 46.7–.10	37.41N	141.78E	44–3	5.7,5.2s		
NEIC	IV	28 09 27 47.2–.08	37.46N	141.65E	38	5.8b,5.5W		
GCMT	IV	28 09 27 47.2–.10	37.50N	141.85E	43–0	5.6W,5.5W		
NEIC	IV	28 09 27 48.0–.00	37.29N	141.65E	48	5.6W,5.5W		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ38.00000°,λ92.00000°. NP2:ϕ_s197.00000°,δ52.00000°,λ88.00000°. $M_0$2.72000×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.7km az=97.3.
IDC Error ellipse: s-maj=11.5km s-min=8.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=146.0. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c198; s118,c262;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.98±.04 $M_{\theta\theta}$-0.38±.03; $M_{\phi\phi}$-2.60±.03; $M_{r\theta}$-0.05±.03; $M_{\theta\phi}$-0.73±.02; $M_{\phi r}$-0.38±.03; Best double couple: NP1: ϕ_s196.00000°,δ49.00000°,λ89.00000°. NP2:ϕ_s18.00000°,δ41.00000°,λ92.00000°. Principal axes: T 3.0060,Plg86.0000°,Azm91.0000°; N -0.1580,Plg1.0000°,Azm196.0000° ; P -2.8430,Plg4.0000°,Azm287.0000° $M_0$2.92500×10^{17}
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}2.28 $M_{\theta\theta}$-0.69 $M_{\phi\phi}$-1.58 $M_{r\theta}$0.11 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.07 Best double couple: NP1:ϕ_s18.00000°,δ58.00000°,λ83.00000°. NP2:ϕ_s212.00000°,δ32.00000°,λ102.00000°. Principal axes: T 2.5600,Plg75.0000°,Azm266.0000°; N -0.4400,Plg6.0000°,Azm21.0000° ; P -2.1100,Plg13.0000°,Azm113.0000° $M_0$2.40000×10^{17}

(281) Tanimbar Islands region

ISC	**IV**	**28 11 41 03.2–.30**	**6.46S–.04**	**132.51E–.05**	**35**	**4.8b,4.2s**	**183**	**2-150**
IDC	IV	28 11 40 58.3–.45	6.38S	132.53E	0	4.7,4.7		¶16465969
NEIC	IV	28 11 40 59.8–.22	6.41S	132.54E	10	4.7b,4.7		
ISCJB	IV	28 11 41 01.2–.22	6.42S–.03	132.55E–.03	33	4.8b,4.2s		
MOS	IV	28 11 41 01.7–.96	6.38S	132.66E	38	4.8b,4.2s		
DJA	IV	28 11 41 01.7–.70	6S–2.0	133E–2.0	17–6	5.6b,5.4		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(730) Northern East Pacific Rise

ISC	**IV**	**28 13 07 48.0–.26**	**10.36N–.03**	**103.63W–.03**	**35**	**5.4s,5.3b**	**871**	**8-153**
IDC	IV	28 13 07 41.6–.56	10.16N	103.74W	0	5.4,5.4s		¶16476110
MOS	IV	28 13 07 42.2–1.2	10.18N	103.64W	10	5.4b,5.3s		
NEIC	IV	28 13 07 43.9–.29	10.13N	103.61W	10	5.8W,5.8W		
GCMT	IV	28 13 07 43.8–.10	10.40N	103.72W	15	5.8W,5.8W		
NEIC	IV	28 13 07 44.0–.00	10.38N	103.80W	15	5.8W,5.8W		
BJI	IV	28 13 07 44.7	10.20N	103.60W	12	5.9s,5.7		
ISCJB	IV	28 13 07 45.4–.21	10.44N–.03	103.54W–.02	33	5.5s,5.2b		

ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}0.37 $M_{\theta\theta}$-2.42 $M_{\phi\phi}$2.05 $M_{r\theta}$-0.99 $M_{\theta\phi}$5.82 $M_{\phi r}$-1.32 Best double couple: NP1:ϕ_s168.00000°,δ79.00000°,λ170.00000°. NP2:ϕ_s260.00000°,δ80.00000°,λ11.00000°. Principal axes: T 6.4900,Plg15.0000°,Azm125.0000°; N -0.0700,Plg75.0000°,Azm302.0000° ; P -6.4200,Plg1.0000°,Azm34.0000° $M_0$6.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c238; s126,c409;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.40±.05 $M_{\theta\theta}$-2.20±.05; $M_{\phi\phi}$2.59±.06; $M_{r\theta}$-0.28±.15; $M_{\theta\phi}$5.86±.04; $M_{\phi r}$-0.46±.17; Best double couple: NP1:ϕ_s169.00000°,δ87.00000°,λ177.00000°. NP2:ϕ_s259.00000°,δ87.00000°,λ3.00000°. Principal axes: T 6.5680,Plg4.0000°,Azm124.0000° ; N -0.4370,Plg86.0000°,Azm307.0000°; P -6.1360,Plg0.0000°,Azm214.0000° $M_0$6.35200×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00 $M_{\theta\theta}$-2.70 $M_{\phi\phi}$2.80 $M_{r\theta}$-4.80 $M_{\theta\phi}$4.60 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s75.00000°,δ86.00000°,λ-40.00000°. NP2:ϕ_s168.00000°,δ49.00000°,λ-175.00000°. Principal axes: T 6.5000,Plg24.0000°,Azm128.0000°; N 1.3000,Plg49.0000°,Azm251.0000° ; P -7.8000,Plg29.0000°,Azm23.0000° $M_0$7.00000×10^{17}
ISCJB Event type se.

(273) Southwest of Sumatera

ISC	**IV**	**29 02 00 35.2–.41**	**6.77S–.05**	**102.52E–.05**	**35**	**4.6b,4.3s**	**122**	**2-151**
BJI	IV	29 02 00 29.0	7.35S	102.76E	31	4.7b,4.7b		¶16546325
IDC	IV	29 02 00 29.8–.80	6.75S	102.42E	0	4.4,4.3b		
NEIC	IV	29 02 00 31.6–2.4	6.76S	102.45E	11–14	4.6b,4.3b		
ISCJB	IV	29 02 00 33.4–.28	6.73S–.03	102.58E–.03	33	4.6b,4.2s		
DJA	IV	29 02 00 35.9–.50	7S–5.0	103E–4.0	52–21	5.5b,5.1b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(705) Off west coast of northern Sumatera

ISC	**IV**	**29 08 56 49.0–.26**	**4.04N–.03**	**95.80E–.03**	**58–1**	**5.7b,4.8s**	**1437**	**1-173**
BJI	IV	29 08 56 44.3	3.84N	95.67E	53	5.7b,5.3b		¶16482384
MOS	IV	29 08 56 47.3–1.0	4.20N	95.88E	54	6.0b,4.6s		
GCMT	IV	29 08 56 47.9–.20	3.97N	96.04E	75–1	5.4W,4.6s		
ISCJB	IV	29 08 56 47.9–.33	4.02N–.02	95.82E–.02	62–2	5.6b,4.6s		
NEIC	IV	29 08 56 47.7–.12	4.03N	95.76E	44	5.7,5.7b		
IDC	IV	29 08 56 48.9–.39	4.15N	95.91E	55–3	5.5,5.3b		
DJA	IV	29 08 56 49.5–.30	4N–2.0	96E–3.0	56–2	6.0,5.8b		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c129; s109,c209;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.03 $M_{\theta\theta}$0.83±.03; $M_{\phi\phi}$-0.66±.03; $M_{r\theta}$0.79±.02; $M_{\theta\phi}$-1.39±.03; $M_{\phi r}$0.18±.03; Best double couple: NP1:ϕ_s257.00000°,δ87.00000°,λ-152.00000°. NP2:ϕ_s166.00000°,δ62.00000°,λ-3.00000°. Principal axes: T 1.8380,Plg17.0000°,Azm28.0000° ; N -0.1260,Plg62.0000°,Azm263.0000°; P -1.7130,Plg21.0000°,Azm125.0000° $M_0$1.77600×10^{17}
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Banda Aceh and [III] at Meulaboh. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56 $M_{\theta\theta}$0.18 $M_{\phi\phi}$0.38 $M_{r\theta}$1.06 $M_{\theta\phi}$-0.69 $M_{\phi r}$-0.25 Best double couple: NP1:ϕ_s288.00000°,δ76.00000°,λ-116.00000°. NP2: ϕ_s173.00000°,δ30.00000°,λ-29.00000°. Principal axes: T 1.4200,Plg26.0000°,Azm39.0000° ; N -0.0800,Plg26.0000°,Azm295.0000°; P -1.3400,Plg52.0000°,Azm168.0000° $M_0$1.40000×10^{17}

(274) Southern Sumatera

ISC	**IV**	**29 20 24 35.2–.55**	**3.51S–.04**	**100.63E–.05**	**28–3**	**5.1b,4.6s**	**529**	**1-150**
BJI	IV	29 20 24 31.9	3.78S	100.76E	33	5.2b,5.1b		¶16485194
ISCJB	IV	29 20 24 33.9–.20	3.46S–.03	100.63E–.02	28	5.1b,4.7s		
IDC	IV	29 20 24 34.8–2.5	3.47S	100.65E	22–14	5.0,4.9b		
NEIC	IV	29 20 24 34.4–1.6	3.53S	100.63E	25–10	5.2b,4.9b		
GCMT	IV	29 20 24 34.4–.30	3.64S	100.33E	15	5.3W,4.9b		
MOS	IV	29 20 24 36.7–1.1	3.31S	100.73E	47	5.3b,4.6s		
KLM	IV	29 20 24 37.8	3.49S	100.58E	50	6.0s,5.2L		
DJA	IV	29 20 24 38.3–.70	3S–3.0	101E–3.0	34–6	5.4b,5.4		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c63; s51,c66;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.33±.02 $M_{\theta\theta}$-0.16±.01; $M_{\phi\phi}$-0.17±.02; $M_{r\theta}$0.63±.04; $M_{\theta\phi}$0.11±.01; $M_{\phi r}$-0.78±.04; Best double couple: NP1:ϕ_s141.00000°,δ82.00000°,λ91.00000°. NP2:ϕ_s316.00000°,δ8.00000°,λ86.00000°. Principal axes: T 1.0730,Plg53.0000°,Azm52.0000°; N -0.0570,Plg1.0000°,Azm321.0000° ; P -1.0180,Plg37.0000°,Azm230.0000° $M_0$1.04600×10^{17}

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 22 19 31.1–.33**	**38.86N–.03**	**142.07E–.03**	**44–2**	**5.3b,4.8s**	**1032**	**0-155**
NIED	IV	29 22 19 00	38.80N	142.10E	47	5.1W,4.8s		¶16485197
BJI	IV	29 22 19 27.1	38.72N	142.32E	44	5.3b,5.1b		
JMA	IV	29 22 19 30.9–.10	38.84N	142.11E	44–2	5.2,5.1b		
MOS	IV	29 22 19 30.1–1.0	38.93N	142.00E	46	5.6b,4.8s		
ISCJB	IV	29 22 19 31.4–.29	38.84N–.02	141.95E–.02	55–2	5.2b,4.7s		
IDC	IV	29 22 19 32.5–1.5	38.84N	142.01E	55–13	5.0,4.9		
GCMT	IV	29 22 19 33.4–.20	38.92N	142.19E	50–0	5.2W,4.9		
NEIC	IV	29 22 19 33.4–.41	38.86N	141.92E	59–3	5.2b,4.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ21.00000°,λ73.00000°. NP2:ϕ_s22.00000°,δ69.00000°,λ96.00000°. $M_0$5.91000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ62.00000°,λ96.00000°. NP2: ϕ_s183.00000°,δ28.00000°,λ79.00000°. Principal axes: T Plg72.0000°,Azm298.0000° ; N Plg5.0000°,Azm193.0000°; P Plg17.0000°,Azm101.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=97.6.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.4.
IDC Error ellipse: s-maj=11.5km s-min=8.3km az=115.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c114; s101,c191; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.02 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.63±.01; $M_{r\theta}$0.20±.01; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$0.40±.01; Best double couple: NP1:ϕ_s19.00000°,δ62.00000°,λ99.00000°. NP2:ϕ_s181.00000°,δ29.00000°,λ74.00000°. Principal axes: T 0.8110,Plg72.0000°,Azm308.0000°; N -0.0230,Plg8.0000°,Azm195.0000° ; P -0.7880,Plg17.0000°,Azm103.0000° $M_0$0.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.

(48) Baja California

ISC	**IV**	**29 22 32 00.6–.88**	**28.88N–.04**	**113.06W–.04**	**27–5**	**5.0b,4.8s**	**921**	**2-144**
ISCJB	IV	29 22 31 56.3–.21	28.85N–.02	112.99W–.02	10	4.8b,4.8s		¶16485198
BJI	IV	29 22 31 56.9	28.78N	113.20W	19	5.5b,5.4s		
MEX	IV	29 22 31 56.4–.35	28.81N	113.19W	8–3	5.1,5.4s		
IDC	IV	29 22 31 56.6–.55	29.00N	113.10W	0	4.7,4.7s		
MOS	IV	29 22 31 57.1–1.4	28.77N	113.09W	19	5.2b,5.0s		
NEIC	IV	29 22 31 58.3–.30	28.74N	113.13W	10	5.2W,5.0b		
GCMT	IV	29 22 31 58.3–.20	28.81N	113.12W	17–0	5.3W,5.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.5km az=27.6.
MEX Error ellipse: s-maj=2.8km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=9.3km az=47.0.
MOS Error ellipse: s-maj=7.5km s-min=3.9km az=94.7.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=42.0. Felt at Guerrero Negro, Baja California Sur. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}0.51 $M_{\theta\theta}$-6.76 $M_{\phi\phi}$6.25 $M_{r\theta}$-0.15 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.89 Best double couple: NP1:ϕ_s309.00000°,δ78.00000°,λ168.00000°. NP2:ϕ_s42.00000°,δ78.00000°,λ12.00000°. Principal axes: T 6.8900,Plg17.0000°,Azm266.0000°; N -0.0500,Plg73.0000°,Azm86.0000°

; P -6.8400,Plg0.0000°,Azm356.0000° $M_0$6.90000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c108; s114,c201; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.40±.02 $M_{\theta\theta}$-0.80±.02; $M_{\phi\phi}$1.20±.02; $M_{r\theta}$-0.43±.06; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$-0.14±.05; Best double couple: NP1:ϕ_s31.00000°,δ70.00000° ,λ-25.00000°. NP2:ϕ_s130.00000°,δ66.00000°,λ-158.00000°. Principal axes: T 1.2580,Plg2.0000°,Azm81.0000°; N -0.1280,Plg58.0000°,Azm175.0000° ; P -1.1330,Plg32.0000°,Azm350.0000° $M_0$1.19500×10^{17}

(203) Bismarck Sea

ISC	**IV**	**30 05 45 37.0–.26**	**3.28S–.03**	**148.73E–.04**	**21**	**5.4s,5.2b**	**396**	**2-153**
BJI	IV	30 05 45 32.3	3.09S	148.89E	5	5.4s,5.3		¶16587544
IDC	IV	30 05 45 33.1–.41	3.32S	148.55E	0	5.2,5.2s		
NEIC	IV	30 05 45 35.0–.14	3.26S	148.63E	8	5.7W,5.6W		
ISCJB	IV	30 05 45 35.3–.14	3.32S–.02	148.63E–.03	21	5.4s,5.1b		
GCMT	IV	30 05 45 35.0–.10	3.20S	148.67E	15	5.8W,5.1b		
NEIC	IV	30 05 45 35.0–.00	3.26S	148.62E	15	5.8W,5.1b		
MOS	IV	30 05 45 37.9–1.1	3.30S	148.54E	41	5.3b,5.3s		
DJA	IV	30 05 45 37.2–.90	3S–8.0	149E–9.0	10	5.8b,5.6		

ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}0.16 $M_{\theta\theta}$2.43 $M_{\phi\phi}$-2.59 $M_{r\theta}$1.10 $M_{\theta\phi}$2.29 $M_{\phi r}$0.66 Best double couple: NP1:ϕ_s116.00000° ,δ74.00000°,λ11.00000°. NP2:ϕ_s22.00000°,δ79.00000°,λ164.00000°. Principal axes: T 3.7600,Plg19.0000°,Azm338.0000°; N -0.2600,Plg70.0000°,Azm170.0000° ; P -3.4900,Plg4.0000°,Azm69.0000° $M_0$3.60000×10^{17}
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c211; s131,c389;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.29±.04 $M_{\theta\theta}$3.74±.04; $M_{\phi\phi}$-3.44±.04; $M_{r\theta}$1.40±.13; $M_{\theta\phi}$3.37±.04; $M_{\phi r}$0.88±.13; Best double couple: NP1:ϕ_s23.00000°,δ82.00000°,λ166.00000°. NP2:ϕ_s115.00000° ,δ76.00000°,λ8.00000°. Principal axes: T 5.5290,Plg16.0000°,Azm338.0000° ; N -0.7280,Plg74.0000°,Azm173.0000°; P -4.7960,Plg4.0000°,Azm69.0000° $M_0$5.16200×10^{17}
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.93 $M_{\theta\theta}$2.85 $M_{\phi\phi}$-1.93 $M_{r\theta}$2.92 $M_{\theta\phi}$2.34 $M_{\phi r}$0.63 Best double couple: NP1:ϕ_s287.00000° ,δ89.00000°,λ-39.00000°. NP2:ϕ_s18.00000°,δ51.00000°,λ-178.00000°. Principal axes: T 5.2300,Plg25.0000°,Azm339.0000°; N -2.0700,Plg50.0000°,Azm105.0000° ; P -3.1600,Plg27.0000°,Azm235.0000° $M_0$4.60000×10^{17}

(83) South of Panama

ISC	**IV**	**30 08 19 16.7–.27**	**6.85N–.04**	**82.36W–.04**	**10**	**5.8s,5.7b**	**1284**	**2-175**
IDC	IV	30 08 19 14.3–.50	6.86N	82.52W	0	5.5,5.5s		¶16587542
MOS	IV	30 08 19 15.3–1.2	6.95N	82.35W	10	5.9b,5.7s		
GCMT	IV	30 08 19 16.3–.10	6.88N	82.39W	21–0	6.2W,5.7s		
NEIC	IV	30 08 19 16.0–.00	6.83N	82.08W	15	6.2W,5.7s		
BJI	IV	30 08 19 16.2	6.85N	82.30W	10	6.2s,6.0		
NEIC	IV	30 08 19 16.7–.23	6.85N	82.33W	12	6.1,6.1W		
ISCJB	IV	30 08 19 17.0–.23	7.18N–.03	82.35W–.02	10	5.7s,5.6b		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c276; s139,c517;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.13±.01 $M_{\theta\theta}$0.47±.01; $M_{\phi\phi}$-0.34±.01; $M_{r\theta}$0.28±.03; $M_{\theta\phi}$2.31±.01; $M_{\phi r}$-0.02±.03; Best double couple: NP1:ϕ_s275.00000°,δ90.00000°,λ-7.00000°. NP2:ϕ_s5.00000°,δ83.00000° ,λ-180.00000°. Principal axes: T 2.4270,Plg5.0000°,Azm320.0000°; N -0.1260,Plg83.0000° ,Azm91.0000°; P -2.2990,Plg5.0000°,Azm230.0000° $M_0$2.36300×10^{18}
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.20 $M_{\theta\theta}$0.21 $M_{\phi\phi}$-0.01 $M_{r\theta}$-0.87 $M_{\theta\phi}$1.61 $M_{\phi r}$0.26 Best double couple: NP1:ϕ_s90.00000° ,δ82.00000°,λ-28.00000°. NP2:ϕ_s184.00000°,δ62.00000°,λ-171.00000°. Principal axes: T 1.8300,Plg13.0000°,Azm140.0000°; N 0.0700,Plg60.0000°,Azm255.0000° ; P -1.8900,Plg25.0000°,Azm43.0000° $M_0$1.90000×10^{18}
NEIC Event type fe. Felt [II] at Boquete and David. Also felt at Ancon, Atalaya, Bejuco, Bugaba, Cerro Punta, Los Algarrobos, Nueva Gorgona, Nuevo Arraijan, Panama, Penonome, Puerto Armuelles, Rio Hato, San Miguelito and Volcan. Felt [IV] at Talamanca, Costa Rica. Also felt at Escazu, Golfito, Heredia, San Isidro and San Vito. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s68 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$-0.03 $M_{\phi\phi}$-0.01 $M_{r\theta}$0.04 $M_{\theta\phi}$1.42 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s360.00000°,δ88.00000°,λ180.00000°. NP2:ϕ_s90.00000° ,δ90.00000°,λ2.00000°. Principal axes: T 1.4100,Plg1.0000°,Azm315.0000° ; N 0.0300,Plg88.0000°,Azm91.0000°; P -1.4400,Plg1.0000°,Azm225.0000° $M_0$1.40000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s95.00000°,δ90.00000°,λ5.00000°. NP2:ϕ_s5.00000°,δ85.00000°,λ-180.00000°. Principal axes: T Plg4.0000°,Azm320.0000°; N Plg0.0000°,Azm0.0000°; P Plg4.0000° ,Azm230.0000°
ISCJB Event type fe.

(703) Andaman Islands region

ISC	**IV**	**30 11 12 15.2–.63**	**7.36N–.04**	**97.61E–.09**	**10**	**4.1b**	**23**	**1-94**
DJA	IV	30 11 11 26.5–1.7	11N–8.0	95E–20	10	5.8b,5.3		¶16708400
ISCJB	IV	30 11 12 14.9–.50	7.47N–.05	97.67E–.07	10	3.9b,5.3		
IDC	IV	30 11 12 14.3–.87	7.37N	97.55E	0	4.0,4.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.5km az=5.8.
IDC Error ellipse: s-maj=45.6km s-min=12.2km az=67.0.

(330) Lake Issyk-Kul region

ISC	**V**	**01 02 31 29.1–.19**	**43.62N–.02**	**77.66E–.01**	**20–0**	**5.2b,4.8s**	**919**	**0-151**
BJI	V	01 02 31 26.8	43.71N	77.74E	8	5.3L,5.2b		¶16485949
NNC	V	01 02 31 27.5–.52	43.72N	77.66E	2–3	5.8b,5.3		
KRNET	V	01 02 31 28.1–.10	43.64N	77.66E	24	5.4b,5.3		
SOME	V	01 02 31 28.9	43.58N	77.70E	20	4.3s,5.3		
MOS	V	01 02 31 28.3–1.1	43.64N	77.76E	22	5.3b,4.8s		
IDC	V	01 02 31 29.3–.33	43.55N	77.69E	23–1	4.7,4.6		
NEIC	V	01 02 31 29.6–.11	43.56N	77.75E	23	5.3b,4.8s		
ISCJB	V	01 02 31 29.3–.25	43.61N–.01	77.75E–.01	30–1	5.1b,4.7s		
GCMT	V	01 02 31 29.6–.20	43.72N	77.73E	25–1	5.2W,4.7s		

ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=5.2km s-min=2.2km az=170.0.
MOS Event type fe. Error ellipse: s-maj=4.9km s-min=4.6km az=127.5. Felt (IV) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=7.5km s-min=5.3km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=172.0. Felt [IV] at Almaty.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.8km az=171.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c65; s91,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.93±.12 $M_{\theta\theta}$-3.58±.10; $M_{\phi\phi}$1.66±.09; $M_{r\theta}$-5.28±.38; $M_{\theta\phi}$0.33±.07; $M_{\phi r}$-2.17±.25; Best double couple: NP1:ϕ_s248.00000°,δ79.00000° ,λ72.00000°. NP2:ϕ_s129.00000°,δ21.00000°,λ149.00000°. Principal axes: T 6.0710,Plg52.0000°,Azm137.0000°; N 0.8070,Plg18.0000°,Azm251.0000° ; P -6.8680,Plg32.0000°,Azm353.0000° $M_0$6.47000×10^{16}

(193) Bougainville-Solomon Islands region

ISC	**V**	**01 16 12 42.5–.20**	**6.94S–.03**	**155.83E–.03**	**54–1**	**5.9b,5.2s**	**1568**	**5-163**
NEIC	V	01 16 12 41.4–.09	6.95S	155.86E	46	5.9W,5.8W		¶16577941
ISCJB	V	01 16 12 41.9–.61	6.96S–.02	155.80E–.02	62–5	5.8b,5.8W		
MOS	V	01 16 12 41.9–.98	6.93S	155.80E	61	5.7b,5.1s		
BJI	V	01 16 12 41.3	6.75S	155.89E	54	5.5b,5.5b		
GCMT	V	01 16 12 42.3–.10	7.16S	155.76E	54–0	5.8W,5.5b		
IDC	V	01 16 12 43.0–.41	6.97S	155.86E	56–3	5.7,5.4		
NEIC	V	01 16 12 43.0–.00	6.99S	155.60E	58	5.7,5.4		
DJA	V	01 16 12 47.6–.70	7S–3.0	156E–4.0	91–8	6.1b,5.9b		
NEIC	V	01 16 12 58.1–.00	6.62S	155.63E	53	6.1b,5.9b		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=116.0. Felt at Arawa. Also felt at Gizo, Solomon Islands. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}5.83 $M_{\theta\theta}$-4.40 $M_{\phi\phi}$-1.43 $M_{r\theta}$-0.63 $M_{\theta\phi}$3.77 $M_{\phi r}$-0.04 Best double couple: NP1: ϕ_s300.00000°,δ47.00000°,λ84.00000°. NP2:ϕ_s129.00000°,δ43.00000°,λ97.00000°. Principal axes: T 5.8900,Plg85.0000°,Azm149.0000°; N 1.1000,Plg5.0000°,Azm304.0000° ; P -6.9900,Plg2.0000°,Azm34.0000° $M_0$6.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ45.00000°,λ126.00000°. NP2: ϕ_s320.00000°,δ55.00000°,λ60.00000°. Principal axes: T Plg65.0000°,Azm173.0000° ; N Plg0.0000°,Azm0.0000°; P Plg6.0000°,Azm71.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=15.5.
MOS Error ellipse: s-maj=6.4km s-min=5.4km az=102.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c256; s124,c343;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}6.02±.06 $M_{\theta\theta}$-4.04±.05; $M_{\phi\phi}$-1.98±.05; $M_{r\theta}$-0.92±.05; $M_{\theta\phi}$3.61±.04; $M_{\phi r}$-0.34±.05; Best double couple: NP1: ϕ_s299.00000°,δ48.00000°,λ78.00000°. NP2:ϕ_s136.00000°,δ43.00000°,λ103.00000°. Principal axes: T 6.1670,Plg81.0000°,Azm142.0000°; N 0.6200,Plg9.0000°,Azm306.0000° ; P -6.7860,Plg2.0000°,Azm37.0000° $M_0$6.47700×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=7.8km az=78.0.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}5.49 $M_{\theta\theta}$-3.28 $M_{\phi\phi}$-2.21 $M_{r\theta}$-0.57 $M_{\theta\phi}$3.09 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s305.00000° ,δ47.00000°,λ84.00000°. NP2:ϕ_s135.00000°,δ43.00000°,λ97.00000°. Principal axes: T 5.5300,Plg84.0000°,Azm152.0000°; N 0.3600,Plg4.0000°,Azm309.0000° ; P -5.8900,Plg1.0000°,Azm39.0000° $M_0$5.70000×10^{17}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}8.10 $M_{\theta\theta}$-4.46 $M_{\phi\phi}$-3.64 $M_{r\theta}$-1.37 $M_{\theta\phi}$3.92 $M_{\phi r}$0.84 Best double couple: NP1:ϕ_s310.00000° ,δ51.00000°,λ87.00000°. NP2:ϕ_s134.00000°,δ39.00000°,λ93.00000°. Principal axes: T 8.2600,Plg84.0000°,Azm202.0000°; N -0.1200,Plg2.0000°,Azm312.0000° ; P -8.1400,Plg6.0000°,Azm42.0000° $M_0$8.20000×10^{17}

(169) Samoa Islands region

ISC	**V**	**01 23 19 01.8–.28**	**15.22S–.06**	**172.89W–.06**	**29**	**4.9b,4.3s**	**619**	**2-154**
IDC	V	01 23 18 57.3–.51	15.16S	172.77W	0	4.8,4.6		¶16486834
NEIC	V	01 23 18 58.6–.10	15.14S	172.94W	10	5.0b,4.6		
BJI	V	01 23 18 58.4	15.09S	172.98W	6	5.5b,5.3s		
GCMT	V	01 23 18 58.6–.20	14.92S	172.58W	22–1	5.0W,5.3s		
ISCJB	V	01 23 18 59.9–.15	15.22S–.04	172.90W–.04	29	4.9b,4.3s		
MOS	V	01 23 19 02.7–1.0	14.86S	172.68W	33	5.0b,4.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=21.2km s-min=13.8km az=125.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=2.7km az=134.0. Felt at Apia.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c41; s74,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.57±.18 $M_{\theta\theta}$1.86±.14; $M_{\phi\phi}$-0.29±.14; $M_{r\theta}$-0.88±.23; $M_{\theta\phi}$-3.16±.10; $M_{\phi r}$0.97±.24; Best double couple: NP1:ϕ_s168.00000°,δ86.00000° ,λ-22.00000°. NP2:ϕ_s260.00000°,δ68.00000°,λ-175.00000°. Principal axes: T 4.3970,Plg12.0000°,Azm216.0000°; N -1.7520,Plg68.0000°,Azm338.0000° ; P -2.6450,Plg18.0000°,Azm122.0000° $M_0$3.52100×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.0km az=140.3.
MOS Error ellipse: s-maj=11.6km s-min=7.5km az=70.2.

(173) Tonga Islands

ISC	**V**	**02 13 21 01.9–.29**	**15.63S–.06**	**174.25W–.05**	**36–4**	**5.3b,5.1s**	**749**	**3-175**
IDC	V	02 13 20 56.5–.43	15.58S	174.37W	0	4.9,4.9		¶16487760
NEIC	V	02 13 20 57.2–.16	15.48S	174.34W	10	5.4b,5.2s		
GCMT	V	02 13 20 57.2–.10	15.21S	174.25W	15–0	5.5W,5.2s		
ISCJB	V	02 13 20 59.9–.13	15.49S–.04	174.41W–.03	33	5.2b,5.1s		
BJI	V	02 13 21 00.0	15.53S	173.96W	40	5.4b,5.3s		
MOS	V	02 13 21 01.0–1.9	15.39S	174.27W	33	5.5b,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=11.5km az=131.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.2km az=138.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c180; s129,c240; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.31±.02 $M_{\theta\theta}$0.92±.02; $M_{\phi\phi}$-0.61±.02; $M_{r\theta}$0.16±.06; $M_{\theta\phi}$1.98±.02; $M_{\phi r}$-0.01±.06; Best double couple: NP1:ϕ_s281.00000°,δ90.00000° ,λ-4.00000°. NP2:ϕ_s11.00000°,δ86.00000°,λ-180.00000°. Principal axes: T 2.2870,Plg3.0000°,Azm326.0000°; N -0.3150,Plg86.0000°,Azm96.0000° ; P -1.9720,Plg3.0000°,Azm235.0000° $M_0$2.12900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.1km az=147.4.
MOS Error ellipse: s-maj=9.9km s-min=6.8km az=58.8.

(196) Irian Jaya region

ISC	**V**	**02 15 42 37.2–.26**	**3.41S–.03**	**135.50E–.03**	**22**	**5.2b,4.2s**	**382**	**2-152**
IDC	V	02 15 42 33.8–.42	3.27S	135.55E	0	4.8,4.8		¶16708616
ISCJB	V	02 15 42 35.1–.15	3.36S–.02	135.61E–.02	22	5.1b,4.2s		
BJI	V	02 15 42 36.9	3.13S	135.79E	31	5.3b,5.2b		
GCMT	V	02 15 42 36.9–.20	3.31S	135.43E	17–1	5.2W,5.2b		
MOS	V	02 15 42 36.8–.89	3.31S	135.53E	33	5.3b,5.2b		
NEIC	V	02 15 42 36.9–1.6	3.29S	135.55E	22–12	5.2b,5.2b		
DJA	V	02 15 42 38.5–.70	3S–2.0	136E–1.0	16–6	5.5b,5.4		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c91; s98,c154;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.09±.10 $M_{\theta\theta}$-1.41±.08; $M_{\phi\phi}$1.51±.10; $M_{r\theta}$-5.06±.44; $M_{\theta\phi}$-3.66±.08; $M_{\phi r}$0.93±.22; Best double couple: NP1:ϕ_s101.00000°,δ89.00000°,λ-127.00000°. NP2:ϕ_s10.00000°,δ37.00000°,λ-1.00000°. Principal axes: T 6.4650,Plg34.0000°,Azm222.0000°; N 0.0390,Plg37.0000°,Azm102.0000° ; P -6.4970,Plg35.0000°,Azm340.0000° $M_0$6.48100×10^{16}
NEIC Event type fe. Felt [IV] at Nabire.

(274) Southern Sumatera

ISC	**V**	**02 23 25 38.0–.72**	**5.59S–.05**	**102.61E–.05**	**45–5**	**4.7b,3.7s**	**204**	**1-148**
IDC	V	02 23 25 33.0–.79	5.35S	102.80E	0	4.5,4.4		¶16489796
DJA	V	02 23 25 35.2–.40	6S–2.0	103E–3.0	10	5.9b,5.4		
ISCJB	V	02 23 25 36.4–.61	5.61S–.03	102.62E–.04	45–5	4.6b,3.8s		
MOS	V	02 23 25 36.6–1.0	5.25S	102.91E	33	4.9b,3.8s		
NEIC	V	02 23 25 38.0–.72	5.53S	102.68E	38–6	4.7b,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=12.6km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.0km az=138.0.
MOS Error ellipse: s-maj=13.9km s-min=6.4km az=114.1.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.7km az=49.0.

(74) Near coast of Nicaragua

ISC	**V**	**02 23 55 39.7–.35**	**12.01N–.03**	**87.64W–.03**	**33–1**	**5.5b,5.1s**	**1425**	**1-166**
ISCJB	V	02 23 55 38.4–.14	12.14N–.02	87.45W–.02	33	5.4b,5.0s		¶16487931
IDC	V	02 23 55 38.7–1.7	12.36N	87.19W	24–9	5.2,5.2		
BJI	V	02 23 55 38.8	12.10N	87.50W	25	5.4b,5.4s		
MOS	V	02 23 55 39.2–1.4	12.37N	87.30W	33	5.4b,5.1s		
NEIC	V	02 23 55 39.5–.20	12.13N	87.47W	28	5.6b,5.5		
SSS	V	02 23 55 39.9	12.07N	87.67W	26	5.5W,5.4L		
INET	V	02 23 55 39.1	12.01N	87.70W	8	5.5L,5.4L		
CASC	V	02 23 55 39.9–1.7	12.06N	87.68W	24	5.5b,5.2L		
GCMT	V	02 23 55 40.4–.10	11.90N	87.95W	32–0	5.5W,5.2L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=1.9km az=41.4.
IDC Error ellipse: s-maj=18.1km s-min=10.2km az=60.0.
MOS Error ellipse: s-maj=9.1km s-min=4.7km az=109.6.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=37.0. Felt [II] at Diriamba and Managua. Also felt at Chinandega, Corinto and Leon. Felt [III] at San Salvador, El Salvador. Felt at Santa Cruz, Costa Rica and at Tegucigalpa, Honduras. Complex earthquake observed on broadband displacement seismograms. A large event is followed by a smaller event about 2 seconds later. Depth based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s40 Moment tensor: Scale 10^{17}Nm; M_{rr}1.54 $M_{\theta\theta}$-0.72 $M_{\phi\phi}$-0.82 $M_{r\theta}$0.41 $M_{\theta\phi}$0.83 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s133.00000° ,δ54.00000°,λ85.00000°. NP2:ϕ_s321.00000°,δ37.00000°,λ96.00000°. Principal axes: T 1.6200,Plg81.0000°,Azm22.0000°; N 0.0600,Plg4.0000°,Azm136.0000° ; P -1.6800,Plg9.0000°,Azm226.0000° $M_0$1.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s330.00000°,δ15.00000°,λ90.00000°. NP2: ϕ_s150.00000°,δ75.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm60.0000° ; N Plg0.0000°,Azm0.0000°; P Plg30.0000°,Azm240.0000°
CASC Error ellipse: s-maj=3.9km s-min=2.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s108,c197; s111,c216; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.06±.04 $M_{\theta\theta}$-1.74±.03; $M_{\phi\phi}$-0.32±.03; $M_{r\theta}$1.05±.04; $M_{\theta\phi}$1.19±.02; $M_{\phi r}$-0.87±.05; Best double couple: NP1:ϕ_s126.00000°,δ61.00000° ,λ96.00000°. NP2:ϕ_s293.00000°,δ30.00000°,λ79.00000°. Principal axes: T 2.4550,Plg73.0000°,Azm52.0000°; N 0.3290,Plg6.0000°,Azm302.0000° ; P -2.7890,Plg16.0000°,Azm211.0000° $M_0$2.62200×10^{17}

(229) Off east coast of Honshu

ISC	**V**	**04 08 23 52.0–.30**	**37.05N–.03**	**143.33E–.03**	**29–1**	**5.3b,5.3s**	**1301**	**2-159**
NIED	V	04 08 23 00	37.00N	143.30E	5	5.5W,5.3s		¶16493553
IDC	V	04 08 23 47.2–.38	36.97N	143.33E	0	5.1,5.1s		
ISCJB	V	04 08 23 48.1–.61	37.10N–.02	143.31E–.01	12–3	5.2b,5.2s		
JMA	V	04 08 23 49.4–.20	37.05N	143.35E	44	5.5,5.2s		
BJI	V	04 08 23 50.0	37.17N	143.16E	18	5.7s,5.5		
MOS	V	04 08 23 53.4–1.0	37.44N	143.21E	36	5.4b,5.3s		
GCMT	V	04 08 23 53.1–.10	37.03N	143.38E	12	5.5W,5.3s		
NEIC	V	04 08 23 53.1–.09	37.04N	143.25E	35	5.3b,5.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ41.00000°,λ-82.00000°. NP2:ϕ_s198.00000°,δ50.00000°,λ-97.00000°. $M_0$1.84000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=10.0km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=169.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=103.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c161; s129,c270; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.85±.02 $M_{\theta\theta}$0.40±.02; $M_{\phi\phi}$1.46±.02; $M_{r\theta}$-0.06±.05; $M_{\theta\phi}$0.73±.02; $M_{\phi r}$0.10±.05; Best double couple: NP1:ϕ_s204.00000°,δ46.00000°,λ-94.00000°. NP2:ϕ_s30.00000°,δ44.00000°,λ-86.00000°. Principal axes: T 1.8340,Plg1.0000°,Azm297.0000°; N 0.0270,Plg3.0000°,Azm207.0000°; P -1.8560,Plg87.0000°,Azm45.0000° $M_0$1.84500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=151.0. Recorded [1 JMA] in Miyagi.

(265) Minahassa Peninsula, Sulawesi

ISC	**V**	**04 16 52 30.6–1.5**	**1.9N–.20**	**121.8E–.40**	**35**	**3.2b**	**7**	**1-56**
IDC	V	04 16 52 24.1–2.0	2.70N	123.36E	0	3.6,3.4		**¶17202772**
DJA	V	04 16 52 36.5–1.5	1N–4.0	121E–4.0	35–18	5.6b,4.5		

ISC Event type ke.

(273) Southwest of Sumatera

ISC	**V**	**04 17 38 37.8–.37**	**4.95S–.03**	**101.78E–.03**	**33–1**	**5.4b,5.3s**	**1071**	**1-176**
BJI	V	04 17 38 30.7	5.60S	101.83E	30	5.7s,5.5		**¶16493790**
IDC	V	04 17 38 33.0–.36	4.92S	101.85E	0	5.1s,5.1b		
ISCJB	V	04 17 38 35.9–.57	4.92S–.02	101.79E–.02	29–3	5.3b,5.2s		
DJA	V	04 17 38 35.6–.60	5S–2.0	102E–2.0	15–5	5.9,5.9b		
NEIC	V	04 17 38 37.6–.16	4.89S	101.85E	26	5.6W,5.4W		
GCMT	V	04 17 38 37.6–.10	5.22S	101.64E	24	5.5W,5.4W		
NEIC	V	04 17 38 37.0–.00	4.95S	101.60E	27	5.5W,5.4W		
MOS	V	04 17 38 37.1–1.0	4.77S	101.94E	33	5.5b,5.1s		
KLM	V	04 17 38 38.5	4.87S	101.57E	45	6.4s,5.8L		

ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=8.4km az=45.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=41.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=224.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}1.48 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-1.55 $M_{r\theta}$0.33 $M_{\theta\phi}$0.38 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s159.00000°,δ55.00000°,λ80.00000°. NP2:ϕ_s357.00000°,δ37.00000°,λ104.00000°. Principal axes: T 1.5900,Plg77.0000°,Azm33.0000°; N 0.1300,Plg9.0000°,Azm165.0000°; P -1.7200,Plg9.0000°,Azm257.0000° $M_0$1.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s310.00000°,δ15.00000°,λ90.00000°. NP2:ϕ_s130.00000°,δ75.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm40.0000°; N Plg0.0000°,Azm0.0000°; P Plg30.0000°,Azm220.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c185; s98,c158; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.22±.03 $M_{\theta\theta}$-0.75±.02; $M_{\phi\phi}$-0.47±.02; $M_{r\theta}$1.18±.03; $M_{\theta\phi}$0.63±.01; $M_{\phi r}$-1.04±.03; Best double couple: NP1:ϕ_s131.00000°,δ71.00000°,λ91.00000°. NP2:ϕ_s307.00000°,δ19.00000°,λ86.00000°. Principal axes: T 1.9840,Plg64.0000°,Azm43.0000°; N 0.0360,Plg1.0000°,Azm310.0000°; P -2.0230,Plg26.0000°,Azm220.0000° $M_0$2.00300×10^{17}
NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-0.50 $M_{r\theta}$2.10 $M_{\theta\phi}$0.80 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s121.00000°,δ77.00000°,λ83.00000°. NP2:ϕ_s329.00000°,δ14.00000°,λ116.00000°. Principal axes: T 2.6000,Plg57.0000°,Azm23.0000°; N 0.2000,Plg6.0000°,Azm123.0000°; P -2.8000,Plg32.0000°,Azm217.0000° $M_0$3.00000×10^{17}
MOS Error ellipse: s-maj=8.0km s-min=4.3km az=110.7.

(58) Near coast of Guerrero

ISC	**V**	**05 13 24 07.6–.42**	**16.70N–.03**	**98.80W–.02**	**32–2**	**5.4s,5.3b**	**1203**	**1-167**
IDC	V	05 13 24 02.9–.50	16.70N	98.76W	0	5.3,5.3s		**¶16497740**
BJI	V	05 13 24 05.3	16.80N	98.60W	24	5.7s,5.6b		
NEIC	V	05 13 24 06.0–.00	16.81N	98.59W	20	5.7s,5.6b		
GCMT	V	05 13 24 07.8–.10	16.85N	98.72W	31–0	5.7W,5.6b		
MOS	V	05 13 24 07.3–1.0	16.81N	98.53W	33	5.5b,5.3s		
NEIC	V	05 13 24 07.8–.19	16.78N	98.62W	24	5.7W,5.5		
MEX	V	05 13 24 07.6–.49	16.61N	98.91W	12–4	5.5,5.5		
ISCJB	V	05 13 24 08.6–.64	16.96N–.02	98.51W–.02	33–4	5.4s,5.3b		

ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40 $M_{\theta\theta}$-1.60 $M_{\phi\phi}$0.20 $M_{r\theta}$-3.30 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s303.00000°,δ82.00000°,λ102.00000°. NP2:ϕ_s63.00000°,δ14.00000°,λ31.00000°. Principal axes: T 4.8000,Plg50.0000°,Azm226.0000°; N -0.7000,Plg12.0000°,Azm121.0000°; P -4.1000,Plg36.0000°,Azm22.0000° $M_0$4.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s111,c197; s120,c284;Duration: 1s7 Moment tensor: Scale 10^{17} Nm; M_{rr}0.73±.03 $M_{\theta\theta}$-1.32±.03; $M_{\phi\phi}$0.59±.03; $M_{r\theta}$-3.62±.11; $M_{\theta\phi}$-0.08±.03; $M_{\phi r}$2.44±.09; Best double couple: NP1:ϕ_s303.00000°,δ85.00000°,λ102.00000°. NP2:ϕ_s54.00000°,δ12.00000°,λ22.00000°. Principal axes: T 4.5380,Plg48.0000°,Azm225.0000°; N -0.0480,Plg12.0000°,Azm122.0000°; P -4.4890,Plg39.0000°,Azm22.0000° $M_0$4.51400×10^{17}
NEIC Event type fe. Felt [III] at Mexico and Puebla and [II] at Oaxaca and Toluca. Felt in much of southern Mexico. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17} Nm; M_{rr}0.14 $M_{\theta\theta}$-0.24 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.77 $M_{\theta\phi}$-0.89 $M_{\phi r}$1.40 Best double couple: NP1:ϕ_s20.00000°,δ14.00000°,λ-12.00000°. NP2:ϕ_s122.00000°,δ87.00000°,λ-103.00000°. Principal axes: T 2.7400,Plg41.0000°,Azm224.0000°; N -0.8600,Plg13.0000°,Azm122.0000°; P -1.8900,Plg46.0000°,Azm18.0000° $M_0$2.40000×10^{17}
ISCJB Event type fe.

(12) Alaska Peninsula

ISC	**V**	**05 14 13 01.2–.24**	**55.08N–.03**	**160.56W–.02**	**41–1**	**6.0b,5.2s**	**2321**	**0-164**
MOS	V	05 14 12 55.5–.88	55.15N	160.63W	10	6.2b,5.3s		**¶16497743**
BJI	V	05 14 12 58.6	55.11N	160.84W	35	5.9b,5.7b		
GCMT	V	05 14 13 01.6–.10	54.86N	160.22W	55–0	5.7W,5.7b		
ISCJB	V	05 14 13 01.6–.21	55.09N–.01	160.47W–.01	57–1	6.0b,5.2s		
IDC	V	05 14 13 01.9–1.3	55.12N	160.55W	44–11	5.6,5.5		
NEIC	V	05 14 13 01.6–.10	55.09N	160.54W	39	5.9b,5.8		
NEIC	V	05 14 13 01.0–.00	55.12N	160.57W	39	5.9b,5.8		

ISC Event type fe.
MOS Error ellipse: s-maj=6.2km s-min=3.7km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c265; s134,c337;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95±.05 $M_{\theta\theta}$-3.21±.04; $M_{\phi\phi}$-0.73±.04; $M_{r\theta}$2.20±.04; $M_{\theta\phi}$-1.68±.03; $M_{\phi r}$1.06±.03; Best double couple: NP1:ϕ_s64.00000°,δ61.00000°,λ91.00000°. NP2:ϕ_s243.00000°,δ29.00000°,λ89.00000°. Principal axes: T 4.6360,Plg74.0000°,Azm335.0000°; N 0.1140,Plg1.0000°,Azm243.0000°; P -4.7450,Plg16.0000°,Azm153.0000° $M_0$4.69000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.4km az=7.9.
IDC Error ellipse: s-maj=13.1km s-min=7.7km az=15.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=174.0. Felt [V] at Sand Point. Also felt at Cold Bay and King Cove. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}2.92 $M_{\theta\theta}$-3.07 $M_{\phi\phi}$0.15 $M_{r\theta}$1.83 $M_{\theta\phi}$-1.87 $M_{\phi r}$1.21 Best double couple: NP1:ϕ_s254.00000°,δ29.00000°,λ104.00000°. NP2:ϕ_s59.00000°,δ62.00000°,λ82.00000°. Principal axes: T 3.5900,Plg72.0000°,Azm311.0000°; N 0.9700,Plg7.0000°,Azm62.0000°; P -4.5500,Plg16.0000°,Azm154.0000° $M_0$4.20000×10^{17}
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}3.22 $M_{\theta\theta}$-2.13 $M_{\phi\phi}$-1.08 $M_{r\theta}$2.48 $M_{\theta\phi}$-0.32 $M_{\phi r}$1.81 Best double couple: NP1:ϕ_s59.00000°,δ69.00000°,λ84.00000°. NP2:ϕ_s254.00000°,δ21.00000°,λ104.00000°. Principal axes: T 4.6400,Plg65.0000°,Azm319.0000°; N -1.1000,Plg5.0000°,Azm61.0000°; P -3.5400,Plg24.0000°,Azm153.0000° $M_0$4.20000×10^{17}

(229) Off east coast of Honshu

ISC	**V**	**05 14 58 19.8–.39**	**38.20N–.03**	**144.15E–.03**	**20–1**	**6.1b,5.8s**	**2189**	**2-164**
NIED	V	05 14 58 00	38.20N	144.10E	8	6.0W,5.8s		**¶16497745**
ISCJB	V	05 14 58 16.4–.49	38.18N–.01	144.08E–.01	6–3	6.0b,5.8s		
IDC	V	05 14 58 16.6–.28	38.16N	144.22E	0	5.7,5.7		
BJI	V	05 14 58 17.9	38.20N	144.00E	20	6.3s,6.2		
NEIC	V	05 14 58 18.7–.09	38.17N	144.03E	11	6.2b,6.1W		
GCMT	V	05 14 58 18.7–.10	38.24N	144.17E	14–0	6.1W,6.1W		
MOS	V	05 14 58 19.6–.98	38.23N	144.12E	33	6.0b,5.8s		
JMA	V	05 14 58 19.1–.20	38.21N	144.12E	42	6.1,5.8s		
NEIC	V	05 14 58 21.0–.00	37.97N	144.44E	24	6.1,5.8s		
NEIC	V	05 14 58 41.0–.00	38.69N	143.95E	13	6.1,5.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ48.00000°,λ-122.00000°. NP2:ϕ_s41.00000°,δ51.00000°,λ-60.00000°. $M_0$1.09000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=162.0.
IDC Error ellipse: s-maj=9.6km s-min=7.5km az=87.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=149.0. Recorded [3 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s18 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.45 $M_{\theta\theta}$-0.64 $M_{\phi\phi}$2.09 $M_{r\theta}$0.13 $M_{\theta\phi}$0.55 $M_{\phi r}$-0.04 Best double couple: NP1:ϕ_s201.00000°,δ46.00000°,λ-75.00000°. NP2:ϕ_s1.00000°,δ46.00000°,λ-105.00000°. Principal axes: T 2.2000,Plg0.0000°,Azm101.0000°; N -0.7200,Plg10.0000°,Azm11.0000°; P -1.4800,Plg80.0000°,Azm192.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s20.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s200.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm110.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c273; s131,c431;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.12±.01 $M_{\theta\theta}$-0.39±.01; $M_{\phi\phi}$1.51±.01; $M_{r\theta}$0.11±.02; $M_{\theta\phi}$0.84±.01; $M_{\phi r}$0.37±.02; Best double couple: NP1:ϕ_s197.00000°,δ52.00000°,λ-95.00000°. NP2:ϕ_s25.00000°,δ38.00000°,λ-84.00000°. Principal axes: T 1.8770,Plg7.0000°,Azm291.0000°; N -0.7030,Plg4.0000°,Azm200.0000°; P -1.1710,Plg82.0000°,Azm84.0000° $M_0$1.52400×10^{18}
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.07 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$1.19 $M_{r\theta}$-0.08 $M_{\theta\phi}$0.20 $M_{\phi r}$0.77 Best double couple: NP1:ϕ_s180.00000°,δ62.00000°,λ-99.00000°. NP2:ϕ_s18.00000°,δ29.00000°,λ-73.00000°. Principal axes: T 1.4400,Plg16.0000°,Azm276.0000°; N -0.1200,Plg7.0000°,Azm183.0000°; P -1.3200,Plg71.0000°,Azm69.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Moment Tensor Solution. s78 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.41 $M_{\theta\theta}$-0.26 $M_{\phi\phi}$1.67 $M_{r\theta}$0.27 $M_{\theta\phi}$0.83 $M_{\phi r}$-1.01 Best double couple: NP1:ϕ_s225.00000°,δ37.00000°,λ-50.00000°. NP2:ϕ_s359.00000°,δ62.00000°,λ-116.00000°. Principal axes: T 2.1800,Plg14.0000°,Azm107.0000°; N -0.3000,Plg23.0000°,Azm11.0000°; P -1.8800,Plg63.0000°,Azm226.0000° $M_0$2.00000×10^{18}

(12) Alaska Peninsula

ISC	**V**	**05 16 57 37.1–.20**	**55.04N–.03**	**160.49W–.02**	**43–1**	**6.0b,5.4s**	**2710**	**0-163**
MOS	V	05 16 57 31.4–.93	55.08N	160.62W	10	6.3b,5.4s		**¶602607233**
BJI	V	05 16 57 34.1	55.10N	160.40W	48	6.1b,5.9b		
GCMT	V	05 16 57 36.6–.10	54.79N	160.34W	56–0	5.8W,5.9b		
NEIC	V	05 16 57 36.6–.11	55.02N	160.69W	36	6.1b,5.8L		
IDC	V	05 16 57 37.5–.34	55.05N	160.58W	40–2	5.8,5.6b		
ISCJB	V	05 16 57 37.4–.21	55.03N–.01	160.46W–.01	53–1	6.0b,5.4s		
NEIC	V	05 16 57 38.0–.00	55.14N	160.62W	46	6.0b,5.4s		

ISC Event type se.
MOS Error ellipse: s-maj=6.2km s-min=3.4km az=88.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c262; s137,c350;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}5.75±.07 $M_{\theta\theta}$-5.53±.07; $M_{\phi\phi}$-0.22±.06; $M_{r\theta}$3.27±.07; $M_{\theta\phi}$-2.80±.05; $M_{\phi r}$2.10±.06; Best double couple: NP1:ϕ_s61.00000°,δ61.00000°,λ84.00000°. NP2:ϕ_s254.00000°,δ30.00000°,λ101.00000°. Principal axes: T 6.8970,Plg73.0000°,Azm316.0000°; N 0.9220,Plg5.0000°,Azm64.0000°; P -7.8210,Plg16.0000°,Azm156.0000° $M_0$7.35900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=178.0. Items knocked from shelves [V] at Sand Point. Felt [III] at King Cove. Also felt at Cold Bay, False Pass and Perryville. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{17} Nm; M_{rr}5.31 $M_{\theta\theta}$-4.91 $M_{\phi\phi}$-0.40 $M_{r\theta}$2.74 $M_{\theta\phi}$-3.36 $M_{\phi r}$1.25 Best double couple: NP1:ϕ_s239.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_s64.00000°,δ58.00000°,λ93.00000°. Principal axes: T 6.0300,Plg77.0000°,Azm342.0000°; N 1.3900,Plg2.0000°,Azm243.0000°; P -7.4100,Plg13.0000°,Azm152.0000° $M_0$6.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s240.00000°,δ25.00000°,λ90.00000°. NP2:ϕ_s60.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm330.0000°; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm150.0000°
IDC Error ellipse: s-maj=11.1km s-min=6.7km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.4km az=10.1.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}4.82 $M_{\theta\theta}$-3.45 $M_{\phi\phi}$-1.37 $M_{r\theta}$3.57 $M_{\theta\phi}$0.15 $M_{\phi r}$2.88 Best double couple: NP1:ϕ_s64.00000°,δ69.00000°,λ78.00000°. NP2:ϕ_s274.00000°,δ24.00000°,λ118.00000°. Principal axes: T 7.0600,Plg63.0000°,Azm314.0000°; N -2.0300,Plg10.0000°,Azm67.0000°; P -5.0300,Plg23.0000°,Azm162.0000° $M_0$6.30000×10^{17}

(238) Ryukyu Islands

ISC	**V**	**05 23 21 23.8–.39**	**26.16N–.02**	**128.62E–.02**	**25–2**	**5.5b,5.0s**	**1270**	**1-176**
NIED	V	05 23 21 00	26.00N	128.80E	14	5.3W,5.0s		**¶16499286**
BJI	V	05 23 21 19.1	26.06N	128.65E	19	5.6s,5.5		
GCMT	V	05 23 21 22.1–.10	25.99N	128.51E	18–0	5.3W,5.5		
NEIC	V	05 23 21 22.0–.00	25.93N	128.42E	15	5.3W,5.5		
JMA	V	05 23 21 22.4–.30	26.08N	128.67E	35	5.6,5.5		
NEIC	V	05 23 21 22.1–.10	26.12N	128.40E	10	5.6b,5.5W		
IDC	V	05 23 21 22.6–2.8	26.16N	128.51E	17–16	5.3,5.2b		
ISCJB	V	05 23 21 23.5–.09	26.16N–.02	128.47E–.02	28	5.5b,5.0s		
MOS	V	05 23 21 24.1–1.2	26.22N	128.48E	33	5.8b,5.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ33.00000°,λ76.00000°. NP2:ϕ_s50.00000°,δ58.00000°,λ99.00000°. $M_0$9.83000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s80,c144; s105,c226;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86±.02 $M_{\theta\theta}$-0.41±.01; $M_{\phi\phi}$-0.45±.01; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$-0.43±.01; $M_{\phi r}$0.52±.03; Best double couple: NP1:ϕ_s46.00000°,δ66.00000°,λ92.00000°. NP2:ϕ_s221.00000°,δ24.00000°,λ85.00000°. Principal axes: T 1.1530,Plg69.0000°,Azm320.0000°; N -0.0020,Plg2.0000°,Azm225.0000°; P -1.1510,Plg21.0000°,Azm134.0000° $M_0$1.15200×10^{17}
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$-0.40 $M_{\phi\phi}$-0.10 $M_{r\theta}$1.60 $M_{\theta\phi}$-0.70 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s41.00000°,δ81.00000°,λ85.00000°. NP2:ϕ_s248.00000°,δ9.00000°,λ117.00000°. Principal axes: T 2.2000,Plg53.0000°,Azm306.0000°; N 0.4000,Plg4.0000°,Azm42.0000°; P -2.6000,Plg36.0000°,Azm135.0000° $M_0$2.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=129.0. Felt [II] at Chatan, Ginowan, Gushikawa, Ishikawa, Okinawa and Yomitan. Also felt at Naha and Nishihara. Recorded [2 JMA] on Okinawa. Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ26.00000°,λ104.00000°. NP2:ϕ_s10.00000°,δ65.00000°,λ83.00000°. Principal axes: T 1.2400,Plg70.0000°,Azm265.0000°; N -0.2600,Plg6.0000°,Azm13.0000°; P -0.9700,Plg19.0000°,Azm105.0000°
IDC Error ellipse: s-maj=12.9km s-min=8.3km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=139.7.
MOS Error ellipse: s-maj=6.5km s-min=3.7km az=104.8.

(403) Northern Mid-Atlantic Ridge

ISC	**V**	**06 16 20 39.8–.51**	**32.34N–.05**	**40.18W–.04**	**12–2**	**5.1b,4.6s**	**993**	**19-178**
BJI	V	06 16 20 35.9	32.54N	40.93W	7	5.6b,5.1b		**¶16497808**
ISCJB	V	06 16 20 38.4–.15	32.36N–.03	40.20W–.02	13	5.0b,4.5s		
IDC	V	06 16 20 38.1–.32	32.38N	40.17W	0	4.8,4.7		
MOS	V	06 16 20 38.2–.98	32.37N	40.15W	10	5.2b,4.4s		
GCMT	V	06 16 20 39.6–.20	32.46N	40.15W	12	5.3W,4.4s		
NEIC	V	06 16 20 39.6–.19	32.33N	40.08W	10	5.2b,4.4s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=1.9km az=173.9.
IDC Error ellipse: s-maj=11.4km s-min=8.4km az=133.0.
MOS Error ellipse: s-maj=6.5km s-min=4.6km az=53.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c70; s117,c203; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.91±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$0.82±.01; $M_{r\theta}$0.42±.05; $M_{\theta\phi}$0.27±.01; $M_{\phi r}$-0.26±.04; Best double couple: NP1:ϕ_s356.00000°,δ53.00000°,λ-119.00000°. NP2:ϕ_s219.00000°,δ45.00000°,λ-57.00000°. Principal axes: T 0.9180,Plg4.0000°,Azm106.0000°; N 0.2040,Plg23.0000°,Azm14.0000°; P -1.1210,Plg67.0000°,Azm206.0000° $M_0$1.01900×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=173.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 20 52 20.8–.22**	**40.26N–.03**	**142.45E–.03**	**39–2**	**5.4b,5.3s**	**1321**	**1-155**

NIED	V	07 20 52 00	40.20N	142.40E	41	5.7W,5.3s		¶16499107
BJI	V	07 20 52 13.2	40.09N	142.70E	16	5.6s,5.5		
MOS	V	07 20 52 19.5–1.3	40.37N	142.37E	33	5.6b,5.3s		
JMA	V	07 20 52 20.3–.10	40.24N	142.50E	34–1	5.7,5.3s		
NEIC	V	07 20 52 20.8–.10	40.24N	142.24E	35	5.7W,5.5b		
GCMT	V	07 20 52 20.8–.10	40.29N	142.53E	42–0	5.8W,5.5b		
ISCJB	V	07 20 52 21.0–.29	40.28N–.02	142.34E–.02	48–2	5.4b,5.3s		
IDC	V	07 20 52 22.7–.52	40.26N	142.33E	54–4	5.3s,5.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S178.00000°,δ22.00000°,λ66.00000°. NP2:ϕ_S25.00000°,δ70.00000°,λ100.00000°. $M_0$4.55000×10^{17}

MOS Error ellipse: s-maj=9.0km s-min=5.7km az=91.3.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=152.0. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32 $M_{\theta\theta}$0.73 $M_{\phi\phi}$-3.06 $M_{r\theta}$1.60 $M_{\theta\phi}$0.07 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_S153.00000° ,δ29.00000°,λ43.00000°. NP2:ϕ_S24.00000°,δ71.00000°,λ112.00000°. Principal axes: T 4.0300,Plg59.0000°,Azm324.0000°; N 0.0900,Plg20.0000°,Azm196.0000° ; P -4.1200,Plg23.0000°,Azm97.0000° $M_0$4.10000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c239; s122,c340;Duration: 1$\hat{s}$8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.85±.05 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$-3.94±.04; $M_{r\theta}$1.32±.04; $M_{\theta\phi}$-0.84±.03; $M_{\phi r}$3.16±.05; Best double couple: NP1:ϕ_S19.00000° ,δ65.00000°,λ97.00000°. NP2:ϕ_S183.00000°,δ25.00000°,λ76.00000°. Principal axes: T 5.1590,Plg69.0000°,Azm302.0000°; N 0.1900,Plg6.0000°,Azm196.0000° ; P -5.3470,Plg20.0000°,Azm104.0000° $M_0$5.25300×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=149.6.

IDC Error ellipse: s-maj=9.0km s-min=7.2km az=89.0.

(701) West of Macquarie Island

ISC	**V**	**09 18 54 43.8–1.0**	**56.65S–.05**	**147.71E–.06**	**9–5**	**5.7s,5.6b**	**552**	**7-170**
BJI	V	09 18 54 41.5	56.60S	147.80E	5	6.0b,5.8s		¶16501969
ISCJB	V	09 18 54 42.3–.22	56.67S–.03	147.39E–.06	10	5.7s,5.5b		
IDC	V	09 18 54 42.1–.38	56.69S	147.36E	0	5.7,5.7s		
NEIC	V	09 18 54 42.0–.00	57.21S	146.84E	15	5.7,5.7s		
GCMT	V	09 18 54 43.7–.10	56.74S	147.32E	12	5.9W,5.7s		
NEIC	V	09 18 54 43.7–.18	56.65S	147.41E	9	5.9W,5.8W		
MOS	V	09 18 54 45.1–1.6	56.61S	148.12E	10	5.7b,5.7s		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.4km az=164.5.

IDC Error ellipse: s-maj=17.6km s-min=12.0km az=92.0.

NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.94 $M_{\theta\theta}$3.21 $M_{\phi\phi}$-5.14 $M_{r\theta}$1.84 $M_{\theta\phi}$-6.87 $M_{\phi r}$2.80 Best double couple: NP1:ϕ_S255.00000° ,δ81.00000°,λ-166.00000°. NP2:ϕ_S163.00000°,δ77.00000°,λ-9.00000°. Principal axes: T 7.0800,Plg2.0000°,Azm28.0000°; N 2.8600,Plg74.0000°,Azm288.0000° ; P -9.9400,Plg15.0000°,Azm119.0000° $M_0$8.90000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c263; s130,c417;Duration: 2$\hat{s}$2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.05±.01 $M_{\theta\theta}$0.44±.01; $M_{\phi\phi}$-0.38±.01; $M_{r\theta}$0.02±.02; $M_{\theta\phi}$-0.87±.01; $M_{\phi r}$-0.09±.02; Best double couple: NP1:ϕ_S347.00000°,δ89.00000°,λ-5.00000°. NP2:ϕ_S77.00000° ,δ85.00000°,λ-179.00000°. Principal axes: T 0.9960,Plg3.0000°,Azm33.0000° ; N -0.0530,Plg85.0000°,Azm160.0000°; P -0.9430,Plg4.0000°,Azm302.0000° $M_0$0.97000×10^{18}

NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.2km az=139.0. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.95 $M_{\theta\theta}$1.58 $M_{\phi\phi}$-2.53 $M_{r\theta}$3.08 $M_{\theta\phi}$-6.31 $M_{\phi r}$-0.69 Best double couple: NP1: ϕ_S79.00000°,δ80.00000°,λ156.00000°. NP2:ϕ_S173.00000°,δ66.00000°,λ11.00000°. Principal axes: T 7.4800,Plg24.0000°,Azm34.0000°; N -0.1600,Plg64.0000°,Azm237.0000° ; P -7.3200,Plg9.0000°,Azm128.0000° $M_0$7.40000×10^{17}

MOS Error ellipse: s-maj=27.7km s-min=8.3km az=91.0.

(263) Talaud Islands

ISC	**V**	**09 19 13 28.9–.42**	**5.34N–.02**	**126.49E–.04**	**47–3**	**5.4b,5.3s**	**690**	**2-172**
MAN	V	09 19 13 18	4.73N	126.73E	59	5.9b,5.5s		¶16501972
BJI	V	09 19 13 22.8	4.95N	126.45E	38	5.4b,5.3b		
MOS	V	09 19 13 24.9–1.0	5.35N	126.47E	32	5.7b,5.1s		
NEIC	V	09 19 13 25.9–.34	5.34N	126.42E	29–2	5.5s,5.5b		
IDC	V	09 19 13 25.9–1.6	5.34N	126.24E	29–10	5.1,5.0		
GCMT	V	09 19 13 25.9–.20	5.33N	126.68E	32–0	5.7W,5.0		
ISCJB	V	09 19 13 27.5–.35	5.40N–.02	126.53E–.02	55–3	5.3b,5.2s		
DJA	V	09 19 13 30.9–.40	5N–2.0	127E–2.0	52–4	5.7b,5.3b		

ISC Event type fe.

NEIC Event type fe. Felt at Santo Nino.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s66,c95; s90,c168;Duration: 1$\hat{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.80±.11 $M_{\theta\theta}$-0.13±.06; $M_{\phi\phi}$-3.67±.07; $M_{r\theta}$0.47±.10; $M_{\theta\phi}$-0.12±.05; $M_{\phi r}$1.60±.11; Best double couple: NP1:ϕ_S8.00000°,δ57.00000°,λ96.00000°. NP2:ϕ_S177.00000°,δ34.00000° ,λ81.00000°. Principal axes: T 4.1730,Plg77.0000°,Azm297.0000°; N -0.1630,Plg5.0000° ,Azm184.0000°; P -4.0100,Plg12.0000°,Azm93.0000° $M_0$4.09200×10^{17}

ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**V**	**09 20 15 55.7–.32**	**37.80N–.03**	**143.55E–.03**	**27–1**	**5.9b,5.2s**	**1988**	**2-160**
NIED	V	09 20 15 00	37.80N	143.60E	8	5.6W,5.2s		¶16501973
IDC	V	09 20 15 51.4–.28	37.72N	143.67E	0	5.6,5.6b		
ISCJB	V	09 20 15 51.5–.54	37.71N–.02	143.57E–.01	8–3	5.9b,5.2s		
NEIC	V	09 20 15 53.6–.09	37.74N	143.54E	11	6.0b,5.8		
JMA	V	09 20 15 53.8–.20	37.80N	143.62E	45	5.6,5.8		
GCMT	V	09 20 15 53.4–.10	37.85N	143.67E	13–0	5.6W,5.8		
MOS	V	09 20 15 56.5–1.2	38.10N	143.48E	33	6.1b,5.2s		
BJI	V	09 20 15 58.1	37.89N	142.95E	30	5.6b,5.6b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S37.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_S220.00000°,δ56.00000°,λ-88.00000°. $M_0$2.70000×10^{17}

IDC Error ellipse: s-maj=10.1km s-min=7.8km az=69.0.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=166.9.

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=145.0. Recorded [2 JMA] in Fukushima, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_S35.00000°,δ25.00000°,λ-90.00000°. NP2: ϕ_S215.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm305.0000° ; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm125.0000°

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s77,c153; s122,c328;Duration: 1$\hat{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.13±.06 $M_{\theta\theta}$1.17±.04; $M_{\phi\phi}$1.96±.04; $M_{r\theta}$0.30±.10; $M_{\theta\phi}$1.84±.03; $M_{\phi r}$0.61±.10; Best double couple: NP1:ϕ_S216.00000° ,δ51.00000°,λ-94.00000°. NP2:ϕ_S42.00000°,δ39.00000°,λ-86.00000°. Principal axes: T 3.5130,Plg6.0000°,Azm309.0000°; N -0.3100,Plg3.0000°,Azm218.0000° ; P -3.2030,Plg84.0000°,Azm102.0000° $M_0$3.35800×10^{17}

MOS Error ellipse: s-maj=8.0km s-min=5.0km az=95.5.

(280) Banda Sea

ISC	**V**	**09 23 38 10.8–.62**	**6.80S–.05**	**131.72E–.06**	**35**	**4.9b**	**39**	**1-117**
IDC	V	09 23 38 07.4–1.3	6.74S	131.18E	0	4.2,4.2L		¶16709297
ISCJB	V	09 23 38 10.5–.47	6.82S–.04	131.62E–.05	35	4.5b,4.2L		
NEIC	V	09 23 38 12.1–.60	6.74S	131.29E	35	4.6b,4.2L		
DJA	V	09 23 38 19.7–.50	6S–3.0	132E–7.0	10	5.5b,5.0		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

(229) Off east coast of Honshu

ISC	**V**	**10 07 16 13.4–.37**	**37.28N–.03**	**143.75E–.03**	**31–2**	**5.4b,4.8s**	**1501**	**2-160**
NIED	V	10 07 16 00	37.40N	143.50E	8	5.0W,4.8s		¶600611041
IDC	V	10 07 16 08.6–.36	37.25N	143.78E	0	5.3,5.3		
JMA	V	10 07 16 12.8–.20	37.31N	143.58E	51	5.0,5.3		
BJI	V	10 07 16 12.7	37.47N	143.46E	22	5.1b,5.0b		
ISCJB	V	10 07 16 13.5–.08	37.26N–.02	143.68E–.01	44	5.3b,4.7s		
MOS	V	10 07 16 13.1–.84	37.45N	143.69E	33	5.7b,4.7s		
NEIC	V	10 07 16 14.2–.38	37.26N	143.71E	35–3	5.4b,4.7s		
GCMT	V	10 07 16 14.2–.20	37.37N	143.75E	16–0	5.2W,4.7s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S33.00000°,δ42.00000°,λ-96.00000°. NP2:ϕ_S220.00000°,δ48.00000°,λ-85.00000°. $M_0$3.59000×10^{16}

IDC Error ellipse: s-maj=11.9km s-min=10.1km az=86.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.5km az=166.2.

MOS Error ellipse: s-maj=6.0km s-min=3.9km az=112.1.

NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=143.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki, Miyagi and Tochigi.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c115; s117,c191; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.68±.16 $M_{\theta\theta}$3.00±.10; $M_{\phi\phi}$3.67±.11; $M_{r\theta}$1.35±.28; $M_{\theta\phi}$1.87±.07; $M_{\phi r}$2.33±.32; Best double couple: NP1:ϕ_S216.00000°,δ57.00000° ,λ-93.00000°. NP2:ϕ_S42.00000°,δ33.00000°,λ-85.00000°. Principal axes: T 5.8010,Plg12.0000°,Azm309.0000°; N 1.4560,Plg3.0000°,Azm218.0000° ; P -7.2670,Plg78.0000°,Azm116.0000° $M_0$6.53400×10^{16}

(229) Off east coast of Honshu

ISC	**V**	**10 08 30 31.3–.37**	**37.86N–.03**	**143.65E–.03**	**30–2**	**5.3b,4.8s**	**1305**	**2-159**
NIED	V	10 08 30 00	37.80N	143.60E	8	5.1W,4.8s		¶16502540
IDC	V	10 08 30 26.1–.44	37.73N	143.71E	0	5.1,5.1		
ISCJB	V	10 08 30 27.2–.74	37.83N–.02	143.59E–.02	12–4	5.2b,4.8s		
JMA	V	10 08 30 29.2–.20	37.85N	143.60E	47	5.1,4.8s		
NEIC	V	10 08 30 30.9–.91	37.80N	143.56E	25–6	5.4b,4.8s		
GCMT	V	10 08 30 30.9–.20	37.91N	143.61E	15–0	5.3W,4.8s		
MOS	V	10 08 30 31.5–.90	38.06N	143.54E	33	5.5b,4.4s		
BJI	V	10 08 30 33.9	38.04N	142.86E	25	5.1b,5.1b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S22.00000°,δ32.00000°,λ-91.00000°. NP2:ϕ_S203.00000°,δ58.00000°,λ-89.00000°. $M_0$5.78000×10^{16}

IDC Error ellipse: s-maj=11.7km s-min=10.8km az=136.0.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=169.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=142.0. Recorded [1 JMA] in Fukushima, Ibaraki, Iwate and Miyagi.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c82; s62,c124; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.03 $M_{\theta\theta}$0.13±.02; $M_{\phi\phi}$0.58±.02; $M_{r\theta}$0.27±.07; $M_{\theta\phi}$0.39±.01; $M_{\phi r}$0.48±.06; Best double couple: NP1:ϕ_S210.00000°,δ63.00000° ,λ-90.00000°. NP2:ϕ_S31.00000°,δ27.00000°,λ-89.00000°. Principal axes: T 0.9890,Plg18.0000°,Azm300.0000°; N -0.0950,Plg0.0000°,Azm210.0000° ; P -0.8940,Plg72.0000°,Azm119.0000° $M_0$0.94200×10^{17}

MOS Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.

(188) Loyalty Islands

ISC	**V**	**10 08 55 12.5–.36**	**20.34S–.03**	**168.28E–.03**	**33–1**	**6.8s,6.4b**	**2331**	**2-167**
IDC	V	10 08 55 07.1–.28	20.31S	168.27E	0	6.7,6.7s		¶16502541
GCMT	V	10 08 55 08.9–.00	20.29S	168.15E	18–0	6.8W,6.7s		
NEIC	V	10 08 55 08.9–.09	20.24S	168.23E	11	6.8,6.8W		
ISCJB	V	10 08 55 09.8–1.3	20.27S–.02	168.26E–.02	25–8	6.8s,6.4b		
NEIC	V	10 08 55 09.0–.00	20.25S	167.87E	15	6.8s,6.4b		
BJI	V	10 08 55 10.0	20.20S	168.20E	20	6.9b,6.9s		
MOS	V	10 08 55 10.7–1.1	20.32S	168.21E	33	6.8s,6.6b		

ISC Event type fe.

IDC Error ellipse: s-maj=11.3km s-min=9.7km az=53.0.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c357; s144,c674;Duration: 6$\hat{s}$1 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.71±.01 $M_{\theta\theta}$-0.17±.01; $M_{\phi\phi}$1.88±.01; $M_{r\theta}$-0.34±.02; $M_{\theta\phi}$-0.66±.01; $M_{\phi r}$0.21±.02; Best double couple: NP1:ϕ_S153.00000°,δ50.00000°,λ-104.00000°. NP2:ϕ_S354.00000° ,δ42.00000°,λ-74.00000°. Principal axes: T 2.0980,Plg4.0000°,Azm253.0000° ; N -0.3170,Plg11.0000°,Azm162.0000°; P -1.7830,Plg78.0000°,Azm6.0000° $M_0$1.94100×10^{19}

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=141.0. Felt at Tadine and We. Felt [II] at Dumbea and Noumea, New Caledonia. Also felt at Bourail, Mont-Dore and Yate. Felt [II] at Port-Vila, Vanuatu. Also felt at Isangel. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.90000×10^{19} Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.78 $M_{\theta\theta}$-0.34 $M_{\phi\phi}$1.13 $M_{r\theta}$0.07 $M_{\theta\phi}$-0.40 $M_{\phi r}$-0.51 Best double couple: NP1:ϕ_S352.00000° ,δ59.00000°,λ-82.00000°. NP2:ϕ_S157.00000°,δ32.00000°,λ-102.00000°. Principal axes: T 1.3500,Plg14.0000°,Azm76.0000°; N -0.4400,Plg7.0000°,Azm168.0000° ; P -0.9100,Plg75.0000°,Azm283.0000° $M_0$1.20000×10^{19}

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=19.5.

NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.70 $M_{\theta\theta}$-0.27 $M_{\phi\phi}$1.96 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.66 $M_{\phi r}$-0.10 Best double couple: NP1:ϕ_S350.00000° ,δ46.00000°,λ-82.00000°. NP2:ϕ_S159.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 2.1400,Plg1.0000°,Azm74.0000°; N -0.4300,Plg5.0000°,Azm164.0000° ; P -1.7100,Plg84.0000°,Azm333.0000° $M_0$2.00000×10^{19}

MOS Error ellipse: s-maj=6.6km s-min=6.0km az=90.6.

(188) Loyalty Islands

ISC	**V**	**10 09 25 06.5–.85**	**20.18S–.08**	**167.1E–.10**	**35**	**4.2b**	**15**	**2-102**
IDC	V	10 09 25 01.4–.96	20.19S	167.12E	0	5.5,5.5s		¶16709360
NEIC	V	10 09 25 03.1–.80	20.22S	167.14E	10	4.4b,5.5s		
ISCJB	V	10 09 25 04.6–.73	20.12S–.07	167.1E–.10	33	5.5s,4.3b		

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

(228) Near east coast of eastern Honshu

ISC	**V**	**10 10 14 41.2–.54**	**36.28N–.03**	**141.70E–.04**	**27–3**	**5.4s,5.1b**	**777**	**1-150**
NIED	V	10 10 14 00	36.30N	142.00E	20	5.3W,5.1b		¶16502622
IDC	V	10 10 14 36.7–.40	36.22N	141.77E	0	5.0s,5.0		
BJI	V	10 10 14 38.8	36.32N	141.60E	24	5.7b,5.4s		
JMA	V	10 10 14 38.8–.30	36.23N	141.86E	58	5.4,5.4s		
ISCJB	V	10 10 14 40.0–.73	36.25N–.02	141.66E–.02	29–5	5.3s,5.0b		
MOS	V	10 10 14 41.7–.85	36.60N	141.62E	29	5.4b,5.0b		
NEIC	V	10 10 14 43.2–.53	36.24N	141.61E	41–4	5.1b,5.0b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S198.00000°,δ18.00000°,λ89.00000°. NP2:ϕ_S19.00000°,δ72.00000°,λ90.00000°. $M_0$1.08000×10^{17}

IDC Error ellipse: s-maj=12.8km s-min=9.3km az=95.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=148.2.

MOS Error ellipse: s-maj=6.0km s-min=3.9km az=108.3.

NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=137.0. Recorded [3 JMA] in Ibaraki.

(188) Loyalty Islands

ISC	**V**	**10 10 24 21.2–.36**	**20.31S–.04**	**168.43E–.04**	**34–1**	**5.8s,5.6b**	**873**	**3-166**
NEIC	V	10 10 24 17.5–.09	20.27S	168.40E	10	5.8s,5.7b		¶16709401
GCMT	V	10 10 24 17.5–.40	20.51S	168.39E	22–1	5.9W,5.7b		
ISCJB	V	10 10 24 18.3–1.8	20.28S–.03	168.36E–.02	23–13	5.8s,5.5b		
MOS	V	10 10 24 19.0–.98	20.37S	168.38E	33	5.9s,5.7b		
IDC	V	10 10 24 22.0–.44	20.38S	168.36E	40–3	5.3,5.3s		
BJI	V	10 10 24 21.9	19.76S	168.42E	33	5.9b,5.8s		

ISC Event type se.

NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.8km az=135.0.

GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s36,c44; s81,c111;Duration: 2$\hat{s}$2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.03±.06 $M_{\theta\theta}$0.24±.04; $M_{\phi\phi}$0.79±.04; $M_{r\theta}$-0.17±.07; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$-0.04±.06; Best double couple: NP1: ϕ_S356.00000°,δ46.00000°,λ-79.00000°. NP2:ϕ_S160.00000°,δ45.00000°,λ-101.00000°. Principal axes: T 0.8220,Plg0.0000°,Azm78.0000°; N 0.2360,Plg8.0000°,Azm168.0000° ; P -1.0550,Plg82.0000°,Azm347.0000° $M_0$0.93800×10^{18}

ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=15.8.

MOS Error ellipse: s-maj=10.5km s-min=8.4km az=36.8.

IDC Error ellipse: s-maj=12.2km s-min=11.0km az=120.0.

(186) Vanuatu Islands

ISC	**V**	**10 10 37 15.4–.29**	**20.34S–.06**	**168.33E–.05**	**39–3**	**5.2b**	**465**	**2-165**
IDC	V	10 10 37 09.2–.46	20.32S	168.47E	0	4.9,4.9		¶16502624
NEIC	V	10 10 37 11.2–.12	20.24S	168.35E	10	5.3b,4.9		
ISCJB	V	10 10 37 12.7–2.1	20.28S–.04	168.31E–.03	29–15	5.2b,5.0s		
MOS	V	10 10 37 12.7–.97	20.38S	168.35E	33	5.4b,5.0s		
BJI	V	10 10 37 13.8	19.97S	168.56E	34	5.6b,5.6s		

ISC Event type se.

IDC Error ellipse: s-maj=15.4km s-min=12.8km az=128.0.

NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.5km az=143.0.

ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=3.8.

MOS Error ellipse: s-maj=14.4km s-min=10.3km az=173.3.

(188) Loyalty Islands

ISC	**V**	**10 10 44 10.5–.45**	**20.31S–.05**	**168.40E–.05**	**29–2**	**5.4b,5.1s**	**583**	**3-165**
NEIC	V	10 10 44 07.4–.13	20.31S	168.45E	10	5.5b,5.1s		**¶16502625**
ISCJB	V	10 10 44 08.6–2.7	20.28S–.04	168.40E–.03	15–17	5.3b,5.2s		
MOS	V	10 10 44 09.5–.93	20.29S	168.36E	33	5.4b,5.2s		
IDC	V	10 10 44 11.3–.56	20.40S	168.44E	37–4	5.0,5.0s		
BJI	V	10 10 44 14.4	19.47S	167.96E	35	5.7b,5.6s		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=1.4.
MOS Error ellipse: s-maj=8.7km s-min=7.6km az=139.1.
IDC Error ellipse: s-maj=14.3km s-min=11.3km az=139.0.

(429) Mid-Indian Ridge

ISC	**V**	**10 10 50 39.6–1.1**	**7.0S–.20**	**68.1E–.20**	**12**	**4.2b**	**21**	**3-156**
IDC	V	10 10 50 36.7–.84	7.24S	67.65E	0	5.5s,5.5		**¶16709410**
ISCJB	V	10 10 50 37.7–.87	7.0S–.20	68.1E–.20	12	5.5s,4.1b		
NEIC	V	10 10 50 38.1–.69	7.26S	67.79E	10	4.4b,4.1b		

ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=19.3km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=26.0km s-min=16.8km az=43.8.
NEIC Event type se. Error ellipse: s-maj=22.3km s-min=16.8km az=38.0.

(188) Loyalty Islands

ISC	**V**	**10 11 31 49.2–.41**	**20.27S–.06**	**168.33E–.05**	**31–2**	**5.1b**	**272**	**3-165**
BJI	V	10 11 31 45.1	20.20S	168.30E	10	5.5b,5.4s		**¶16560959**
NEIC	V	10 11 31 46.0–.17	20.17S	168.36E	10	5.2b,5.4s		
ISCJB	V	10 11 31 47.8–2.6	20.23S–.05	168.26E–.04	33–18	5.0b,5.0s		
MOS	V	10 11 31 48.3–1.2	20.13S	168.28E	33	5.3b,5.0s		
IDC	V	10 11 31 50.0–.59	20.28S	168.27E	38–3	4.5,4.3		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.8km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.6km az=168.1.
MOS Error ellipse: s-maj=11.4km s-min=10.3km az=149.0.
IDC Error ellipse: s-maj=16.5km s-min=12.5km az=138.0.

(186) Vanuatu Islands

ISC	**V**	**10 12 00 32.2–.33**	**20.20S–.05**	**168.28E–.05**	**25**	**5.2b,4.8s**	**350**	**3-165**
IDC	V	10 12 00 27.2–.49	20.18S	168.35E	0	4.8s,4.7		**¶16503275**
NEIC	V	10 12 00 29.8–.16	20.13S	168.26E	10	5.3b,4.7		
ISCJB	V	10 12 00 30.7–.14	20.13S–.03	168.29E–.03	25	5.0b,4.8s		
BJI	V	10 12 00 31.0	19.84S	168.60E	24	5.5b,5.3s		
MOS	V	10 12 00 32.5–1.3	20.10S	168.25E	33	5.4b,5.3s		

ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=12.8km az=114.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=147.5.
MOS Error ellipse: s-maj=11.2km s-min=9.4km az=151.9.

(266) Northern Molucca Sea

ISC	**V**	**10 14 32 37.0–.46**	**1.52N–.03**	**126.41E–.04**	**42–3**	**5.1b,4.5s**	**497**	**2-168**
IDC	V	10 14 32 30.9–.31	1.45N	126.31E	0	5.1b,5.0		**¶16503281**
KLM	V	10 14 32 32.8	1.25N	126.56E	10	5.6s,5.4L		
BJI	V	10 14 32 32.7	1.28N	126.40E	42	5.1b,5.0b		
MOS	V	10 14 32 33.7–1.2	1.46N	126.25E	33	5.4b,4.3s		
ISCJB	V	10 14 32 35.1–.37	1.50N–.02	126.43E–.02	46–3	5.1b,4.5s		
GCMT	V	10 14 32 36.2–.20	1.63N	126.28E	18–1	5.3W,4.5s		
NEIC	V	10 14 32 36.2–.77	1.47N	126.36E	41–7	5.2b,4.5s		
DJA	V	10 14 32 37.0–1.1	2N–2.0	126E–2.0	22–12	5.6b,5.4		

ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c23; s72,c108;Duration: 1$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.38±.04 $M_{\theta\theta}$-0.32±.02; $M_{\phi\phi}$0.70±.03; $M_{r\theta}$0.05±.06; $M_{\theta\phi}$0.36±.02; $M_{\phi r}$0.69±.10; Best double couple: NP1:ϕ_s177.00000°,δ73.00000°,λ-113.00000°. NP2:ϕ_s52.00000°,δ28.00000°,λ-39.00000°. Principal axes: T 1.1250,Plg24.0000°,Azm285.0000°; N -0.3740,Plg22.0000°,Azm185.0000°; P -0.7520,Plg56.0000°,Azm58.0000° $M_0$0.93900×10^{17}
NEIC Event type se.

(694) Central East Pacific Rise

ISC	**V**	**10 15 05 22.4–.47**	**4.73S–.09**	**105.66W–.09**	**13**	**5.2s,4.9b**	**214**	**24-152**
ISCJB	V	10 15 05 19.7–.51	4.92S–.07	105.57W–.06	13	5.2s,4.8b		**¶16505607**
IDC	V	10 15 05 21.1–.98	4.68S	105.68W	0	5.1s,5.1		
BJI	V	10 15 05 21.8	4.80S	105.60W	10	5.6s,5.4		
GCMT	V	10 15 05 22.2–.10	4.57S	105.64W	16–0	5.5W,5.4		
NEIC	V	10 15 05 22.2–.40	4.74S	105.59W	10	5.2s,5.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.9km az=6.5.
IDC Error ellipse: s-maj=36.5km s-min=15.0km az=61.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c162; s123,c242; Duration: 1$s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.03 $M_{\theta\theta}$0.73±.03; $M_{\phi\phi}$-0.87±.04; $M_{r\theta}$0.03±.08; $M_{\theta\phi}$2.01±.03; $M_{\phi r}$0.08±.09; Best double couple: NP1:ϕ_s11.00000°,δ89.00000°,λ178.00000°. NP2:ϕ_s101.00000°,δ88.00000°,λ1.00000°. Principal axes: T 2.0950,Plg2.0000°,Azm326.0000°; N 0.1390,Plg88.0000°,Azm173.0000°; P -2.2350,Plg1.0000°,Azm56.0000° $M_0$2.16500×10^{17}
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.7km az=52.0.

(259) Mindanao

ISC	**V**	**10 22 56 34.7–1.3**	**8.76N–.05**	**126.03E–.07**	**54–12**	**4.2b**	**60**	**1-145**
IDC	V	10 22 56 27.5–.62	8.86N	126.04E	0	4.2,4.1b		**¶16709523**
MAN	V	10 22 56 30	8.54N	125.84E	146	4.7b,3.6L		
ISCJB	V	10 22 56 32.0–.90	8.82N–.04	126.10E–.06	46–9	4.2b,3.1s		
NEIC	V	10 22 56 33.7–1.6	8.82N	126.12E	46–15	4.4b,3.1s		
DJA	V	10 22 56 46.0–1.4	8N–10	126E–8.0	35–17	5.6b,5.1		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(229) Off east coast of Honshu

ISC	**V**	**11 01 20 07.3–.31**	**37.86N–.03**	**143.56E–.03**	**28–1**	**5.5b,4.8s**	**1453**	**2-160**
NIED	V	11 01 20 00	37.90N	143.50E	8	5.2W,4.8s		**¶16503610**
ISCJB	V	11 01 20 02.9–.69	37.84N–.02	143.60E–.01	8–4	5.4b,4.7s		
JMA	V	11 01 20 05.3–.20	37.86N	143.59E	43	5.2,4.7s		
NEIC	V	11 01 20 05.6–1.4	37.81N	143.56E	15–8	5.6b,4.7s		
GCMT	V	11 01 20 05.6–.20	37.88N	143.68E	13–0	5.2W,4.7s		
BJI	V	11 01 20 07.2	38.02N	143.13E	18	5.2b,5.1b		
MOS	V	11 01 20 07.2–.95	37.97N	143.51E	33	5.7b,4.8s		
IDC	V	11 01 20 08.8–.41	37.79N	143.59E	41–3	5.1,5.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ31.00000°,λ-78.00000°. NP2:ϕ_s210.00000°,δ59.00000°,λ-97.00000°. $M_0$6.42000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=168.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=140.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki, Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s61,c102; s94,c201;Duration: 1$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.64±.02 $M_{\theta\theta}$0.10±.01; $M_{\phi\phi}$0.54±.01; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.50±.01; $M_{\phi r}$0.44±.04; Best double couple: NP1:ϕ_s199.00000°,δ61.00000°,λ-107.00000°. NP2:ϕ_s51.00000°,δ33.00000°,λ-62.00000°. Principal axes: T 0.9760,Plg15.0000°,Azm301.0000°; N -0.1810,Plg15.0000°,Azm207.0000°; P -0.7960,Plg69.0000°,Azm73.0000° $M_0$0.88600×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=4.0km az=105.8.
IDC Error ellipse: s-maj=11.1km s-min=8.2km az=99.0.

(705) Off west coast of northern Sumatera

ISC	**V**	**11 03 14 21.7–1.4**	**3.7N–.10**	**93.69E–.09**	**19**	**4.0b**	**14**	**3-52**
IDC	V	11 03 14 18.8–7.2	3.79N	93.79E	0	4.0s,4.0		**¶17203347**
DJA	V	11 03 14 32.8–.90	3N–6.0	94E–7.0	54–32	6.1b,5.7		

ISC Event type ke.

(688) East of North Island

ISC	**V**	**11 06 11 26.2–.42**	**36.48S–.04**	**179.60W–.04**	**34–1**	**5.4b,4.5s**	**489**	**2-175**
NEIC	V	11 06 11 23.0–.21	36.33S	179.49W	10	5.3b,4.5s		**¶16503619**
WEL	V	11 06 11 22.9–.51	36.27S	179.08W	33	5.8L,4.5s		
GCMT	V	11 06 11 23.0–.10	36.25S	179.22W	14–0	5.3W,4.5s		
ISCJB	V	11 06 11 25.9–.16	36.49S–.03	179.58W–.03	38	5.3b,4.5s		
MOS	V	11 06 11 25.8–1.1	36.29S	179.62W	33	5.2b,4.8s		
BJI	V	11 06 11 26.5	36.51S	179.74W	42	5.5b,5.4b		
IDC	V	11 06 11 28.9–1.6	36.28S	179.52W	53–14	5.2L,4.9		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=136.0. Felt on the east coast of the North Island.
WEL Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=90.0. Felt between Auckland, Southland and Gisborne, maximum reported intensity MM. 4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c153; s106,c191; Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.07±.02 $M_{\theta\theta}$-0.23±.02; $M_{\phi\phi}$1.30±.02; $M_{r\theta}$-0.05±.04; $M_{\theta\phi}$0.22±.01; $M_{\phi r}$-0.00±.03; Best double couple: NP1:ϕ_s12.00000°,δ45.00000°,λ-85.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-95.00000°. Principal axes: T 1.3300,Plg0.0000°,Azm98.0000°; N -0.2600,Plg4.0000°,Azm188.0000°; P -1.0730,Plg86.0000°,Azm4.0000° $M_0$1.20200×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.3km az=138.0.
MOS Error ellipse: s-maj=10.8km s-min=9.7km az=81.5.
IDC Error ellipse: s-maj=11.8km s-min=8.7km az=163.0.

(188) Loyalty Islands

ISC	**V**	**11 08 19 36.8–.24**	**20.37S–.04**	**168.35E–.04**	**32–1**	**5.9b,5.2s**	**1295**	**2-167**
IDC	V	11 08 19 31.7–.35	20.35S	168.47E	0	5.6b,5.5		**¶16503624**
NEIC	V	11 08 19 33.5–.09	20.30S	168.35E	10	5.8b,5.6W		
GCMT	V	11 08 19 33.5–.10	20.40S	168.23E	12	5.6W,5.6W		
ISCJB	V	11 08 19 35.6–.89	20.34S–.03	168.31E–.02	33–7	5.8b,5.1s		
MOS	V	11 08 19 36.1–1.3	20.27S	168.30E	33	6.0b,5.2s		
NEIC	V	11 08 19 38.0–.00	20.49S	168.02E	15	6.0b,5.2s		
BJI	V	11 08 19 39.5	19.77S	168.17E	44	5.8b,5.5b		

ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=78.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.1km az=152.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c200; s134,c343;Duration: 1$s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.64±.02 $M_{\theta\theta}$0.31±.02; $M_{\phi\phi}$2.33±.02; $M_{r\theta}$-0.52±.07; $M_{\theta\phi}$-1.02±.02; $M_{\phi r}$0.06±.06; Best double couple: NP1:ϕ_s148.00000°,δ49.00000°,λ-103.00000°. NP2:ϕ_s347.00000°,δ43.00000°,λ-76.00000°. Principal axes: T 2.7670,Plg3.0000°,Azm247.0000°; N -0.0390,Plg10.0000°,Azm156.0000°; P -2.7310,Plg80.0000°,Azm352.0000° $M_0$2.74900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=1.3.
MOS Error ellipse: s-maj=6.6km s-min=6.2km az=97.3.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.30 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$2.70 $M_{r\theta}$0.60 $M_{\theta\phi}$-0.80 $M_{\phi r}$-1.70 Best double couple: NP1:ϕ_s341.00000°,δ62.00000°,λ-94.00000°. NP2:ϕ_s171.00000°,δ28.00000°,λ-81.00000°. Principal axes: T 3.4000,Plg17.0000°,Azm75.0000°; N -0.5000,Plg3.0000°,Azm343.0000°; P -2.9000,Plg72.0000°,Azm241.0000° $M_0$3.00000×10^{17}

(188) Loyalty Islands

ISC	**V**	**11 09 21 35.1–.49**	**20.45S–.06**	**168.40E–.05**	**29–3**	**5.2b,4.7s**	**373**	**2-165**
IDC	V	11 09 21 30.1–.57	20.46S	168.38E	0	4.7,4.6		**¶16504104**
ISCJB	V	11 09 21 32.3–2.3	20.40S–.05	168.40E–.03	19–16	5.1b,4.6s		
NEIC	V	11 09 21 32.4–.14	20.35S	168.36E	10	5.2b,4.6s		
GCMT	V	11 09 21 32.3–.20	20.39S	168.25E	13–0	5.2W,4.6s		
MOS	V	11 09 21 34.6–1.2	20.40S	168.33E	33	5.5b,4.6s		
BJI	V	11 09 21 35.4	20.12S	168.58E	39	5.2b,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=13.7km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=170.7.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.7km az=157.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c66; s114,c184; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.26±.22 $M_{\theta\theta}$0.52±.14; $M_{\phi\phi}$5.73±.17; $M_{r\theta}$-1.07±.35; $M_{\theta\phi}$-1.75±.10; $M_{\phi r}$0.93±.33; Best double couple: NP1:ϕ_s156.00000°,δ51.00000°,λ-98.00000°. NP2:ϕ_s350.00000°,δ40.00000°,λ-80.00000°. Principal axes: T 6.3790,Plg5.0000°,Azm252.0000°; N 0.0760,Plg7.0000°,Azm162.0000°; P -6.4610,Plg81.0000°,Azm22.0000° $M_0$6.42000×10^{16}
MOS Error ellipse: s-maj=9.6km s-min=8.6km az=160.4.

(228) Near east coast of eastern Honshu

ISC	**V**	**11 18 14 34.0–.31**	**36.12N–.03**	**142.32E–.03**	**28–1**	**5.3s,5.1b**	**1003**	**1-154**
NIED	V	11 18 14 00	36.10N	142.40E	5	5.3W,5.1b		**¶16505639**
IDC	V	11 18 14 29.5–.37	36.10N	142.32E	0	4.9,4.9b		
ISCJB	V	11 18 14 30.6–.78	36.10N–.02	142.30E–.02	11–4	5.3s,5.0b		
JMA	V	11 18 14 31.6–.20	36.09N	142.44E	65	5.4,5.0b		
GCMT	V	11 18 14 31.9–.10	36.03N	142.65E	12	5.2W,5.0b		
NEIC	V	11 18 14 31.9–.12	36.10N	142.27E	10	5.2b,5.0b		
BJI	V	11 18 14 35.3	36.13N	141.90E	36	5.7s,5.5b		
MOS	V	11 18 14 35.3–.88	36.53N	142.27E	32	5.3b,5.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ45.00000°,λ66.00000°. NP2:ϕ_s44.00000°,δ50.00000°,λ113.00000°. $M_0$8.59000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.6km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=173.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c125; s110,c216; Duration: 1$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.01 $M_{\theta\theta}$-0.26±.01; $M_{\phi\phi}$-0.48±.01; $M_{r\theta}$0.14±.03; $M_{\theta\phi}$-0.40±.01; $M_{\phi r}$0.47±.03; Best double couple: NP1:ϕ_s26.00000°,δ61.00000°,λ79.00000°. NP2:ϕ_s229.00000°,δ31.00000°,λ110.00000°. Principal axes: T 0.8970,Plg71.0000°,Azm270.0000°; N 0.0150,Plg10.0000°,Azm31.0000°; P -0.9110,Plg16.0000°,Azm124.0000° $M_0$0.90400×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.7km az=154.0.
MOS Error ellipse: s-maj=6.6km s-min=4.0km az=113.1.

(412) Bouvet Island region

ISC	**V**	**12 03 41 01.0–.43**	**54.74S–.07**	**1.60E–.10**	**10**	**4.9b,4.1s**	**47**	**17-161**
ISCJB	V	12 03 40 59.1–.40	54.55S–.06	1.7E–.10	10	4.8b,4.1s		**¶16506962**
IDC	V	12 03 40 59.1–.58	54.64S	1.68E	0	4.5,4.4b		
NEIC	V	12 03 41 00.8–.34	54.65S	1.63E	10	5.1b,4.4b		
GCMT	V	12 03 41 00.8–.20	54.62S	2.04E	29–1	5.2W,4.4b		
BJI	V	12 03 41 01.3	54.70S	1.40E	10	5.5b,5.1s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=8.3km az=179.1.
IDC Error ellipse: s-maj=18.8km s-min=17.2km az=134.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.9km az=86.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c73; s103,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.21±.18 $M_{\theta\theta}$6.30±.16; $M_{\phi\phi}$-6.09±.15; $M_{r\theta}$-1.38±.26; $M_{\theta\phi}$-0.32±.12; $M_{\phi r}$1.40±.26; Best double couple: NP1:ϕ_s136.00000°,δ89.00000°,λ-18.00000°. NP2:ϕ_s227.00000°,δ72.00000°,λ-179.00000°. Principal axes: T 6.6090,Plg12.0000°,Azm183.0000°; N -0.2030,Plg72.0000°,Azm315.0000°; P -6.4060,Plg13.0000°,Azm90.0000° $M_0$6.50800×10^{16}

(408) Ascension Island region

ISC	**V**	**12 07 04 19.2–.67**	**10.0S–.10**	**13.26W–.09**	**10**	**4.4b,4.0s**	**44**	**2-131**
IDC	V	12 07 04 15.2–1.4	10.52S	12.93W	0	4.2b,4.2		**¶16709672**
NEIC	V	12 07 04 18.6–.63	10.12S	13.15W	10	5.2b,4.2		
GCMT	V	12 07 04 18.6–.40	10.52S	13.01W	12–1	4.8W,4.2		
BJI	V	12 07 04 19.2	10.10S	13.10W	10	5.6b,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=36.4km s-min=29.0km az=166.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.5km az=151.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s68,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.69±.15 $M_{\theta\theta}$0.51±.09; $M_{\phi\phi}$1.18±.10; $M_{r\theta}$-0.26±.28; $M_{\theta\phi}$-0.49±.06; $M_{\phi r}$-0.41±.23; Best double couple: NP1:ϕ_s344.00000°,δ51.00000°,λ-75.00000°. NP2:ϕ_s142.00000°,δ42.00000°,λ-107.00000°. Principal axes: T 1.4590,Plg5.0000°,Azm64.0000°; N 0.3340,Plg11.0000°,Azm155.0000°; P -1.7950,Plg78.0000°,Azm312.0000° $M_0$1.62700×10^{16}

(210) South of Mariana Islands

ISC	**V**	**12 22 22 08.8–.53**	**12.38N–.03**	**144.14E–.03**	**20–2**	**5.3b,5.2s**	**883**	**1-173**
ISCJB	V	12 22 22 05.5–.85	12.41N–.02	143.96E–.02	3–5	5.3b,5.2s		**¶16873146**
BJI	V	12 22 22 05.0	12.32N	144.15E	9	5.3b,5.3s		
IDC	V	12 22 22 06.9–1.6	12.33N	144.07E	10–9	5.0,5.0		
MOS	V	12 22 22 08.5–.97	12.34N	144.08E	33	5.6b,5.1s		
GCMT	V	12 22 22 08.0–.10	12.19N	143.98E	18–0	5.4W,5.1s		
NEIC	V	12 22 22 08.0–.61	12.37N	143.97E	12–3	5.4b,5.2s		
DJA	V	12 22 22 12.9–.60	12N–3.0	144E–4.0	43–7	6.2,5.9b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c186; s108,c212;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.38±.03 $M_{\theta\theta}$-1.10±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$0.35±.04; $M_{\theta\phi}$-1.02±.02; $M_{\phi r}$0.61±.05; Best double couple: NP1:ϕ_s43.00000°,δ57.00000°,λ73.00000°. NP2:ϕ_s252.00000° ,δ36.00000°,λ114.00000°. Principal axes: T 1.5800,Plg72.0000°,Azm272.0000° ; N 0.3370,Plg14.0000°,Azm52.0000°; P -1.9110,Plg11.0000°,Azm145.0000° $M_0$1.74500×10^{17}
NEIC Event type fe. Felt at Merizo.

(210) South of Mariana Islands

ISC	**V**	**13 00 25 45.7–.62**	**12.32N–.04**	**144.25E–.04**	**17–3**	**5.0b,4.8s**	**406**	**1-155**
ISCJB	V	13 00 25 43.9–.16	12.32N–.03	144.07E–.03	10	4.9b,4.8s		**¶16507995**
IDC	V	13 00 25 43.6–.49	12.36N	144.05E	0	4.8,4.7		
MOS	V	13 00 25 46.8–1.2	12.30N	144.02E	33	5.1b,4.9s		
BJI	V	13 00 25 46.2	12.38N	144.19E	30	5.2b,5.0s		
NEIC	V	13 00 25 48.8–.18	12.31N	144.13E	35	5.1b,5.0s		
GCMT	V	13 00 25 48.8–.20	12.24N	143.95E	19–0	5.2W,5.0s		
DJA	V	13 00 25 50.3–1.6	12N–5.0	144E–9.0	39–15	6.3,5.9b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c116; s97,c163;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.27±.20 $M_{\theta\theta}$-4.15±.14; $M_{\phi\phi}$-2.12±.15; $M_{r\theta}$-0.75±.28; $M_{\theta\phi}$-4.25±.11; $M_{\phi r}$2.33±.32; Best double couple: NP1:ϕ_s32.00000°,δ52.00000°,λ63.00000°. NP2:ϕ_s252.00000°,δ45.00000°,λ120.00000°. Principal axes: T 7.2000,Plg69.0000°,Azm240.0000°; N 0.3600,Plg21.0000°,Azm49.0000° ; P -7.5600,Plg4.0000°,Azm141.0000° $M_0$7.38000×10^{16}

(210) South of Mariana Islands

ISC	**V**	**13 01 04 39.2–.52**	**12.43N–.03**	**144.14E–.03**	**23–3**	**5.5b,5.2s**	**1007**	**1-173**
BJI	V	13 01 04 32.0	12.17N	144.45E	10	5.4b,5.4s		**¶16507996**
ISCJB	V	13 01 04 35.7–.69	12.46N–.02	143.98E–.02	7–4	5.4b,5.2s		
NEIC	V	13 01 04 36.8–2.1	12.43N	143.99E	6–13	5.6b,5.5W		
GCMT	V	13 01 04 36.8–.10	12.23N	144.08E	19–0	5.5W,5.5W		
IDC	V	13 01 04 37.4–1.5	12.45N	143.97E	10–8	5.1,5.1		
MOS	V	13 01 04 38.6–.89	12.38N	144.05E	33	5.7b,5.2s		
NEIC	V	13 01 04 39.0–.00	12.45N	144.60E	18	5.7b,5.2s		
DJA	V	13 01 04 44.0–.50	13N–4.0	144E–5.0	67–8	7.0,6.0b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Santa Rita. Also felt at Apra Harbor, Barrigada, Hagatna Heights, Mangilao, Talofofo and Yigo.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s98,c185; s115,c256;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46±.03 $M_{\theta\theta}$-0.82±.02; $M_{\phi\phi}$-0.64±.02; $M_{r\theta}$0.53±.05; $M_{\theta\phi}$-1.17±.02; $M_{\phi r}$0.87±.05; Best double couple: NP1:ϕ_s37.00000°,δ61.00000°,λ78.00000°. NP2:ϕ_s240.00000° ,δ31.00000°,λ110.00000°. Principal axes: T 1.7770,Plg71.0000°,Azm280.0000° ; N 0.3930,Plg10.0000°,Azm43.0000°; P -2.1700,Plg15.0000°,Azm136.0000° $M_0$1.97400×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.30 $M_{\theta\phi}$-1.30 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s79.00000° ,δ65.00000°,λ129.00000°. NP2:ϕ_s196.00000°,δ45.00000°,λ36.00000°. Principal axes: T 2.3000,Plg52.0000°,Azm36.0000°; N -0.3000,Plg34.0000°,Azm240.0000° ; P -2.0000,Plg11.0000°,Azm142.0000° $M_0$2.00000×10^{17}

(282) South of Jawa

ISC	**V**	**13 21 43 22.6–.43**	**10.04S–.03**	**107.63E–.04**	**24–2**	**5.1b,4.7s**	**669**	**2-178**
BJI	V	13 21 43 13.1	10.77S	107.84E	10	5.3b,5.0b		**¶16509655**
ISCJB	V	13 21 43 17.5–.85	9.97S–.02	107.63E–.02	2–5	5.1b,5.0s		
IDC	V	13 21 43 19.1–.34	9.90S	107.70E	0	4.9,4.8L		
GCMT	V	13 21 43 20.5–.20	10.09S	107.70E	17–0	5.2W,4.8L		
NEIC	V	13 21 43 20.5–.14	9.98S	107.65E	10	5.3b,5.2s		
DJA	V	13 21 43 21.7–.20	10S–2.0	108E–1.0	10	5.7,5.6b		
MOS	V	13 21 43 21.9–.74	9.94S	107.65E	33	5.3b,4.4s		
KLM	V	13 21 43 22.1	9.87S	107.76E	10	6.4s,5.2b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.1km az=29.2.
IDC Error ellipse: s-maj=14.5km s-min=9.4km az=51.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c122; s83,c162; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.67±.02 $M_{\theta\theta}$0.77±.01; $M_{\phi\phi}$-0.09±.02; $M_{r\theta}$0.35±.03; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s293.00000°,δ59.00000° ,λ-84.00000°. NP2:ϕ_s101.00000°,δ32.00000°,λ-100.00000°. Principal axes: T 0.9620,Plg13.0000°,Azm18.0000°; N -0.1930,Plg5.0000°,Azm110.0000° ; P -0.7690,Plg76.0000°,Azm220.0000° $M_0$0.86600×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=209.0.
MOS Error ellipse: s-maj=10.5km s-min=7.1km az=113.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 23 35 52.9–.22**	**37.40N–.03**	**141.46E–.03**	**39–1**	**5.8s,5.6b**	**1979**	**0-164**
NIED	V	13 23 35 00	37.30N	141.60E	41	6.0W,5.6b		**¶16509660**
BJI	V	13 23 35 47.8	37.31N	141.73E	35	6.0s,5.9		
MOS	V	13 23 35 50.1–1.1	37.37N	141.49E	33	5.9s,5.8b		
JMA	V	13 23 35 50.9–.10	37.33N	141.63E	41–2	5.9,5.8b		
ISCJB	V	13 23 35 51.9–.28	37.40N–.01	141.42E–.01	40–2	5.8s,5.6b		
GCMT	V	13 23 35 52.9–.10	37.31N	141.67E	41–0	6.1W,5.6b		
NEIC	V	13 23 35 52.9–.10	37.40N	141.34E	35	6.1W,6.0W		
IDC	V	13 23 35 53.6–1.7	37.38N	141.52E	51–15	5.7,5.7		
NEIC	V	13 23 35 53.0–.00	37.18N	141.80E	37	5.7,5.7		
NEIC	V	13 23 36 10.1–.00	37.58N	141.54E	39	5.7,5.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s18.00000°,δ68.00000°,λ89.00000°. $M_0$1.28000×10^{18}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=97.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=154.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c302; s138,c464;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}1.23±.01 $M_{\theta\theta}$-0.14±.01; $M_{\phi\phi}$-1.09±.01; $M_{r\theta}$0.40±.01; $M_{\theta\phi}$-0.40±.01; $M_{\phi r}$1.06±.01; Best double couple: NP1:ϕ_s20.00000°,δ66.00000°,λ90.00000°. NP2:ϕ_s200.00000° ,δ24.00000°,λ89.00000°. Principal axes: T 1.6710,Plg69.0000°,Azm291.0000° ; N 0.0070,Plg0.0000°,Azm200.0000°; P -1.6790,Plg21.0000°,Azm110.0000° $M_0$1.67500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=141.0. Felt [III] at Tokyo. Also felt at Atsugi, Hachioji, Ichinoseki, Kishiwada, Motegi, Narita, Nikko, Sakado, Yokohama and Yokosuka. Recorded [4 JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.90000×10^{18} Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}7.30 $M_{\theta\theta}$-1.07 $M_{\phi\phi}$-6.23 $M_{r\theta}$3.67 $M_{\theta\phi}$-0.86 $M_{\phi r}$5.53 Best double couple: NP1:ϕ_s180.00000° ,δ25.00000°,λ67.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ100.00000°. Principal axes: T 10.2000,Plg66.0000°,Azm313.0000°; N -1.4000,Plg9.0000°,Azm201.0000° ; P -8.8000,Plg22.0000°,Azm107.0000° $M_0$9.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s171.00000°,δ18.00000°,λ57.00000°. NP2: ϕ_s25.00000°,δ75.00000°,λ100.00000°. Principal axes: T Plg59.0000°,Azm309.0000° ; N Plg0.0000°,Azm0.0000°; P Plg29.0000°,Azm107.0000°
IDC Error ellipse: s-maj=12.7km s-min=8.3km az=104.0.
NEIC Event type se. Moment Tensor Solution. s43 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-0.62 $M_{r\theta}$0.65 $M_{\theta\phi}$-0.31 $M_{\phi r}$1.37 Best double couple: NP1:ϕ_s26.00000° ,δ75.00000°,λ87.00000°. NP2:ϕ_s216.00000°,δ15.00000°,λ99.00000°. Principal axes: T 1.8200,Plg60.0000°,Azm292.0000°; N -0.1400,Plg2.0000°,Azm27.0000° ; P -1.6800,Plg29.0000°,Azm118.0000° $M_0$1.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}1.08 $M_{\theta\theta}$-0.31 $M_{\phi\phi}$-0.77 $M_{r\theta}$0.45 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.78 Best double couple: NP1:ϕ_s211.00000° ,δ25.00000°,λ90.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ90.00000°. Principal axes: T 1.4200,Plg70.0000°,Azm300.0000°; N -0.0700,Plg0.0000°,Azm30.0000° ; P -1.3400,Plg20.0000°,Azm120.0000° $M_0$1.40000×10^{18}

(188) Loyalty Islands

ISC	**V**	**14 07 06 02.3–.30**	**20.23S–.06**	**168.36E–.05**	**25**	**5.1b,4.7s**	**286**	**3-165**
IDC	V	14 07 05 57.3–.48	20.15S	168.36E	0	4.7,4.6s		**¶16510232**
GCMT	V	14 07 05 59.5–.20	20.15S	168.18E	12	5.1W,4.6s		
NEIC	V	14 07 05 59.5–.16	20.08S	168.27E	10	5.3b,4.6s		
ISCJB	V	14 07 06 00.7–.17	20.14S–.04	168.37E–.04	25	5.0b,4.7s		
MOS	V	14 07 06 01.4–1.1	20.24S	168.29E	33	5.5b,4.7s		
BJI	V	14 07 06 06.2	20.20S	168.40E	66	5.3b,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=14.7km az=122.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c46; s114,c175; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.24±.09 $M_{\theta\theta}$0.60±.10; $M_{\phi\phi}$4.65±.09; $M_{r\theta}$-0.16±.30; $M_{\theta\phi}$-1.25±.08; $M_{\phi r}$1.54±.30; Best double couple: NP1:ϕ_s167.00000°,δ53.00000° ,λ-87.00000°. NP2:ϕ_s342.00000°,δ37.00000°,λ-94.00000°. Principal axes: T 5.2270,Plg8.0000°,Azm255.0000°; N 0.2570,Plg3.0000°,Azm345.0000° ; P -5.4740,Plg81.0000°,Azm92.0000° $M_0$5.35100×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.1km az=138.9.
MOS Error ellipse: s-maj=10.8km s-min=9.0km az=156.3.

(225) Off southeast coast of Hokkaido

ISC	**V**	**14 22 30 29.8–.35**	**43.04N–.03**	**146.22E–.03**	**42–2**	**5.2b,4.5s**	**1262**	**0-153**
NIED	V	14 22 30 00	42.80N	146.40E	32	4.9W,4.5s		**¶16512080**
IDC	V	14 22 30 22.7–.44	42.91N	146.24E	0	5.1,4.9		
JMA	V	14 22 30 27.4–.10	42.85N	146.31E	48–2	5.0,4.9		
SKHL	V	14 22 30 27.5–.40	42.80N	146.32E	54–5	5.8b,5.3s		
BJI	V	14 22 30 28.2	43.05N	146.25E	51	4.9b,4.9b		
GCMT	V	14 22 30 29.7–.50	42.95N	146.37E	37–1	5.1W,4.9b		
NEIC	V	14 22 30 29.7–.43	43.14N	146.13E	37–4	5.2b,4.9b		
ISCJB	V	14 22 30 29.6–.32	43.04N–.02	146.20E–.02	54–2	5.2b,4.5s		
MOS	V	14 22 30 29.4–.87	43.09N	146.14E	53	5.5b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ45.00000°,λ24.00000°. NP2:ϕ_s58.00000°,δ73.00000°,λ132.00000°. $M_0$2.97000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.1km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s62,c89; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.21±.57 $M_{\theta\theta}$0.14±.32; $M_{\phi\phi}$-4.35±.33; $M_{r\theta}$3.12±.32; $M_{\theta\phi}$-1.85±.17; $M_{\phi r}$1.76±.28; Best double couple: NP1:ϕ_s43.00000°,δ65.00000° ,λ114.00000°. NP2:ϕ_s177.00000°,δ34.00000°,λ50.00000°. Principal axes: T 5.9460,Plg63.0000°,Azm351.0000°; N -0.1360,Plg21.0000°,Azm212.0000° ; P -5.8140,Plg16.0000°,Azm116.0000° $M_0$5.88000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=153.0. Recorded [3 JMA] in eastern Hokkaido.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=166.4.
MOS Error ellipse: s-maj=6.7km s-min=5.2km az=104.8.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 23 50 48.6–.31**	**37.72N–.03**	**141.58E–.03**	**52–2**	**5.2b,4.3s**	**1127**	**1-152**
NIED	V	14 23 50 00	37.70N	141.60E	56	5.0W,4.3s		**¶16512083**
BJI	V	14 23 50 46.2	37.66N	141.55E	58	5.2b,5.0b		
MOS	V	14 23 50 47.2–.88	37.79N	141.56E	51	5.5b,5.0b		
JMA	V	14 23 50 48.1–.10	37.66N	141.58E	48–2	5.1,5.0b		
ISCJB	V	14 23 50 48.2–.27	37.66N–.02	141.45E–.02	59–2	5.2b,4.3s		
IDC	V	14 23 50 49.8–1.8	37.66N	141.49E	64–16	5.1,5.0		
GCMT	V	14 23 50 49.8–.40	37.71N	141.75E	56–1	5.0W,5.0		
NEIC	V	14 23 50 49.8–.40	37.67N	141.40E	60–3	5.3b,5.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ35.00000°,λ96.00000°. NP2:ϕ_s8.00000°,δ55.00000°,λ86.00000°. $M_0$3.69000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=5.3km az=91.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s348.00000°,δ51.00000°,λ69.00000°. NP2:ϕ_s200.00000°,δ44.00000°,λ114.00000°. Principal axes: T Plg73.0000°,Azm196.0000°; N Plg17.0000°,Azm2.0000°; P Plg4.0000° ,Azm93.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=153.8.
IDC Error ellipse: s-maj=12.5km s-min=10.2km az=100.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c57; s81,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.13±.20 $M_{\theta\theta}$0.04±.13; $M_{\phi\phi}$-4.17±.12; $M_{r\theta}$-0.66±.10; $M_{\theta\phi}$-0.70±.09; $M_{\phi r}$0.63±.10; Best double couple: NP1:ϕ_s359.00000°,δ49.00000° ,λ76.00000°. NP2:ϕ_s199.00000°,δ42.00000°,λ105.00000°. Principal axes: T 4.2980,Plg79.0000°,Azm208.0000°; N 0.0230,Plg10.0000°,Azm8.0000° ; P -4.3160,Plg4.0000°,Azm99.0000° $M_0$4.30700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=137.0. Recorded [3 JMA] in Fukushima and Miyagi.

(406) Central Mid-Atlantic Ridge

ISC	**V**	**15 13 08 15.4–.58**	**0.46N–.05**	**25.61W–.04**	**19–2**	**5.5s,5.1b**	**704**	**12-152**
BJI	V	15 13 08 11.5	0.50N	25.60W	10	5.9s,5.8		**¶16512102**
NEIC	V	15 13 08 12.0–.00	0.46N	25.60W	15	5.9s,5.8		
NEIC	V	15 13 08 13.1–.26	0.57N	25.65W	10	6.1W,6.1W		
GCMT	V	15 13 08 13.1–.10	0.87N	25.62W	13–0	6.1W,6.1W		
IDC	V	15 13 08 13.8–.43	0.47N	25.53W	0	5.4L,5.4		
ISCJB	V	15 13 08 14.3–1.1	0.66N–.04	25.94W–.02	13–7	5.5s,5.0b		
MOS	V	15 13 08 15.8–1.7	1.19N	25.97W	10	5.4b,5.0b		
NEIC	V	15 13 08 28.5–.00	1.21N	25.63W	19	5.4b,5.0b		

ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}0.01 $M_{\theta\theta}$0.14 $M_{\phi\phi}$-0.15 $M_{r\theta}$-0.57 $M_{\theta\phi}$-1.33 $M_{\phi r}$0.69 Best double couple: NP1:ϕ_s359.00000° ,δ76.00000°,λ24.00000°. NP2:ϕ_s263.00000°,δ66.00000°,λ165.00000°. Principal axes: T 1.7800,Plg26.0000°,Azm223.0000°; N -0.4200,Plg62.0000°,Azm26.0000° ; P -1.3600,Plg6.0000°,Azm129.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=168.0. Moment Tensor Solution. s84 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.08 $M_{\theta\theta}$0.36 $M_{\phi\phi}$-0.28 $M_{r\theta}$0.11 $M_{\theta\phi}$-1.42 $M_{\phi r}$0.04 Best double couple: NP1:ϕ_s264.00000°,δ88.00000°,λ-176.00000°. NP2:ϕ_s174.00000° ,δ86.00000°,λ-2.00000°. Principal axes: T 1.5000,Plg2.0000°,Azm39.0000° ; N -0.0800,Plg85.0000°,Azm283.0000°; P -1.4200,Plg4.0000°,Azm129.0000° $M_0$1.50000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c287; s138,c505;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.08±.01 $M_{\theta\theta}$0.24±.01; $M_{\phi\phi}$-0.15±.01; $M_{r\theta}$0.29±.02; $M_{\theta\phi}$-1.57±.01; $M_{\phi r}$-0.07±.02; Best double couple: NP1:ϕ_s86.00000°,δ88.00000°,λ170.00000°. NP2:ϕ_s177.00000° ,δ80.00000°,λ2.00000°. Principal axes: T 1.6640,Plg9.0000°,Azm41.0000° ; N -0.1080,Plg80.0000°,Azm253.0000°; P -1.5550,Plg5.0000°,Azm132.0000° $M_0$1.61000×10^{18}
IDC Error ellipse: s-maj=14.6km s-min=10.4km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.8km az=166.3.
MOS Error ellipse: s-maj=9.7km s-min=4.7km az=58.2.
NEIC Event type se. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.22 $M_{\theta\theta}$0.33 $M_{\phi\phi}$-0.11 $M_{r\theta}$-1.05 $M_{\theta\phi}$-1.72 $M_{\phi r}$0.61 Best double couple: NP1:ϕ_s0.00000° ,δ63.00000°,λ9.00000°. NP2:ϕ_s266.00000°,δ82.00000°,λ153.00000°. Principal axes: T 2.3900,Plg25.0000°,Azm220.0000°; N -0.7100,Plg62.0000°,Azm71.0000° ; P -1.6800,Plg13.0000°,Azm316.0000° $M_0$2.00000×10^{18}

(193) Bougainville-Solomon Islands region

ISC	**V**	**15 18 37 10.9–.25**	**6.07S–.03**	**154.43E–.03**	**47–1**	**6.2b,6.1s**	**1569**	**3-168**
MOS	V	15 18 37 08.4–1.2	6.02S	154.46E	41	6.3b,6.1s		**¶16512224**
BJI	V	15 18 37 09.0	6.15S	154.35E	45	6.3b,6.1s		
ISCJB	V	15 18 37 09.3–.62	6.09S–.02	154.45E–.02	43–5	6.1s,6.1b		
NEIC	V	15 18 37 10.4–.12	6.10S	154.41E	40	6.5W,6.5W		
NEIC	V	15 18 37 10.0–.00	5.96S	154.45E	43	6.5W,6.5W		
GCMT	V	15 18 37 10.4–.10	6.22S	154.44E	53–0	6.5W,6.5W		
IDC	V	15 18 37 11.4–1.4	6.10S	154.45E	49–12	5.9,5.8		
DJA	V	15 18 37 15.8–.60	6S–2.0	155E–3.0	78–5	6.9,6.6b		
NEIC	V	15 18 37 29.0–.00	5.97S	153.81E	53	6.9,6.6b		

ISC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=5.5km az=95.2.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.5km az=30.3.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.6km az=125.0. Complex earthquake, with at least one larger event about 3 seconds after the onset observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.10000×10^{19} Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}6.42 $M_{\theta\theta}$-2.67 $M_{\phi\phi}$-3.75 $M_{r\theta}$-0.27 $M_{\theta\phi}$2.84 $M_{\phi r}$2.08 Best double couple: NP1:ϕ_s132.00000° ,δ38.00000°,λ76.00000°. NP2:ϕ_s329.00000°,δ54.00000°,λ101.00000°. Principal axes: T 6.8400,Plg78.0000°,Azm279.0000°; N -0.4900,Plg9.0000°,Azm143.0000° ; P -6.3500,Plg8.0000°,Azm52.0000° $M_0$6.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s67 Moment tensor: Scale 10^{18}Nm; M_{rr}5.74 $M_{\theta\theta}$-2.29 $M_{\phi\phi}$-3.45 $M_{r\theta}$0.28 $M_{\theta\phi}$1.97 $M_{\phi r}$1.18 Best double couple: NP1:ϕ_s331.00000° ,δ50.00000°,λ100.00000°. NP2:ϕ_s136.00000°,δ41.00000°,λ78.00000°. Principal axes:

T 5.9200,Plg81.0000°,Azm295.0000°; N -0.9400,Plg7.0000°,Azm144.0000°
; P -4.9800,Plg4.0000°,Azm54.0000° $M_0$5.50000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c354; s141,c568;Duration: 4s1 Moment tensor: Scale 10^{18} Nm; M_{rr}5.94±.03 $M_{\theta\theta}$-3.01±.02; $M_{\phi\phi}$-2.93±.03; $M_{r\theta}$-0.76±.03; $M_{\theta\phi}$3.22±.02; $M_{\theta r}$0.59±.02; Best double couple: NP1:ϕ_s314.00000°,δ49.00000°,λ89.00000°. NP2:ϕ_s136.00000°,δ41.00000°,λ92.00000°. Principal axes: T 6.0170,Plg85.0000°,Azm211.0000° ; N 0.2480,Plg1.0000°,Azm314.0000°; P -6.2650,Plg4.0000°,Azm45.0000° $M_0$6.14100×10^{18}

IDC Error ellipse: s-maj=10.1km s-min=7.9km az=73.0.

NEIC Event type se. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}7.15 $M_{\theta\theta}$-3.33 $M_{\phi\phi}$-3.82 $M_{r\theta}$-0.43 $M_{\theta\phi}$3.61 $M_{\theta r}$-0.16 Best double couple: NP1:ϕ_s140.00000°,δ44.00000°,λ95.00000°. NP2:ϕ_s314.00000°,δ46.00000°,λ85.00000°. Principal axes: T 7.1700,Plg87.0000°,Azm149.0000°; N 0.2000,Plg3.0000°,Azm317.0000° ; P -7.1900,Plg1.0000°,Azm47.0000° $M_0$7.20000×10^{18}

(193) Bougainville-Solomon Islands region

ISC	**V**	**15 23 25 05.3–.49**	**6.84S–.04**	**155.10E–.04**	**29–3**	**5.3b,4.9s**	**358**	**4-163**
ISCJB	V	15 23 25 00.7–.94	6.84S–.02	155.09E–.03	8–5	5.2b,4.9s		**¶16516461**
BJI	V	15 23 25 03.6	6.85S	154.90E	20	5.2b,4.9b		
NEIC	V	15 23 25 04.0–.00	7.03S	154.84E	21	5.2b,4.9b		
MOS	V	15 23 25 05.0–1.2	6.85S	155.06E	40	5.4b,4.7s		
NEIC	V	15 23 25 06.2–.14	6.86S	155.06E	35	5.5W,5.4b		
IDC	V	15 23 25 06.9–1.5	6.93S	155.10E	45–14	4.7,4.6		
GCMT	V	15 23 25 06.2–.10	7.15S	155.00E	25–0	5.5W,4.6		
DJA	V	15 23 25 23.7–2.2	8S–10	154E–14	88–13	5.7,5.6b		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}1.60 $M_{\theta\theta}$-1.00 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.60 $M_{\theta\phi}$0.60 $M_{\theta r}$-0.50 Best double couple: NP1:ϕ_s112.00000°,δ69.00000°,λ82.00000°. NP2:ϕ_s314.00000°,δ21.00000°,λ110.00000°. Principal axes: T 2.4000,Plg64.0000°,Azm9.0000°; N -0.3000,Plg7.0000°,Azm115.0000° ; P -2.1000,Plg24.0000°,Azm208.0000° $M_0$2.00000×10^{17}

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c175; s115,c202;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.45±.03 $M_{\theta\theta}$-0.97±.02; $M_{\phi\phi}$-0.47±.02; $M_{r\theta}$1.03±.05; $M_{\theta\phi}$0.76±.02; $M_{\theta r}$-0.94±.05; Best double couple: NP1:ϕ_s131.00000°,δ67.00000°,λ94.00000°. NP2:ϕ_s301.00000°,δ24.00000°,λ81.00000°. Principal axes: T 2.0080,Plg68.0000°,Azm48.0000° ; N 0.0680,Plg3.0000°,Azm309.0000°; P -2.0750,Plg22.0000°,Azm218.0000° $M_0$2.04100×10^{17}

(188) Loyalty Islands

ISC	**V**	**16 19 18 23.6–.43**	**20.43S–.06**	**168.31E–.05**	**31–2**	**5.2b,4.4s**	**294**	**2-165**
IDC	V	16 19 18 19.4–.56	20.47S	168.29E	0	4.8,4.8		**¶16523240**
NEIC	V	16 19 18 20.6–.27	20.43S	168.35E	10	5.5b,4.8		
GCMT	V	16 19 18 20.6–.20	20.42S	168.28E	17–0	5.1W,4.8		
MOS	V	16 19 18 21.8–1.8	20.25S	168.36E	33	5.5b,4.8		
ISCJB	V	16 19 18 23.0–.21	20.47S–.04	168.31E–.04	37	5.1b,4.5s		

ISC Event type se.

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c59; s91,c139;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.17±.22 $M_{\theta\theta}$0.98±.14; $M_{\phi\phi}$4.19±.15; $M_{r\theta}$0.32±.38; $M_{\theta\phi}$-1.95±.09; $M_{\theta r}$-1.21±.35; Best double couple: NP1:ϕ_s337.00000°,δ52.00000°,λ-87.00000°. NP2:ϕ_s152.00000°,δ38.00000°,λ-94.00000°. Principal axes: T 5.2560,Plg7.0000°,Azm65.0000°; N 0.0710,Plg2.0000°,Azm155.0000° ; P -5.3250,Plg83.0000°,Azm265.0000° $M_0$5.29000×10^{16}

ISCJB Event type se.

(282) South of Jawa

ISC	**V**	**17 00 15 00.3–.38**	**9.15S–.03**	**112.59E–.03**	**53–2**	**5.5b,5.2s**	**1373**	**1-177**
BJI	V	17 00 14 55.7	9.20S	112.60E	28	5.5b,5.3b		**¶16523247**
IDC	V	17 00 14 56.3–2.1	9.16S	112.62E	21–12	5.4,5.3		
DJA	V	17 00 14 57.4–.30	10S–3.0	113E–2.0	10	6.3b,6.3		
GCMT	V	17 00 14 57.7–.10	9.53S	112.69E	41–0	5.7W,6.3		
NEIC	V	17 00 14 57.6–.12	9.20S	112.59E	28	5.7W,5.7b		
MOS	V	17 00 14 57.4–.91	9.15S	112.60E	48	5.8b,5.1s		
NEIC	V	17 00 14 58.0–.00	9.58S	113.01E	32	5.8b,5.1s		
ISCJB	V	17 00 15 00.1–.35	9.21S–.02	112.65E–.02	66–3	5.4b,5.1s		
KLM	V	17 00 15 01.7	9.40S	112.54E	71	6.5s,6.2L		

ISC Event type fe.

IDC Error ellipse: s-maj=12.3km s-min=8.5km az=73.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c226; s125,c343;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.50±.04 $M_{\theta\theta}$3.75±.03; $M_{\phi\phi}$-0.24±.04; $M_{r\theta}$0.54±.03; $M_{\theta\phi}$-0.97±.03; $M_{\theta r}$0.77±.04; Best double couple: NP1: ϕ_s269.00000°,δ50.00000°,λ-110.00000°. NP2:ϕ_s117.00000°,δ44.00000°,λ-68.00000°. Principal axes: T 3.9900,Plg3.0000°,Azm12.0000°; N -0.2340,Plg15.0000°,Azm282.0000° ; P -3.7490,Plg75.0000°,Azm113.0000° $M_0$3.87000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=217.0. Felt [IV] at Blitar and Karangkates; [III] at Malang; [II] at Surabaya and Yogyakarta. Also felt at Banyuwangi, Batu, Jember, Kepanjen and Pare. Felt [IV] at Denpasar and [II] at Kuta, Bali. Also felt at Ubud. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.99 $M_{\theta\theta}$2.59 $M_{\phi\phi}$0.40 $M_{r\theta}$0.41 $M_{\theta\phi}$-0.40 $M_{\theta r}$0.11 Best double couple: NP1:ϕ_s103.00000°,δ41.00000°,λ-85.00000°. NP2:ϕ_s277.00000°,δ49.00000°,λ-94.00000°. Principal axes: T 2.6900,Plg4.0000°,Azm10.0000°; N 0.3400,Plg3.0000°,Azm280.0000° ; P -3.0300,Plg85.0000°,Azm151.0000° $M_0$2.90000×10^{17}

MOS Error ellipse: s-maj=9.2km s-min=6.2km az=105.7.

NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.70 $M_{\theta\theta}$3.60 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.80 $M_{\theta\phi}$-0.70 $M_{\theta r}$3.10 Best double couple: NP1:ϕ_s129.00000°,δ67.00000°,λ-67.00000°. NP2:ϕ_s262.00000°,δ31.00000°,λ-132.00000°. Principal axes: T 4.6000,Plg19.0000°,Azm203.0000°; N 1.0000,Plg20.0000°,Azm300.0000° ; P -5.6000,Plg61.0000°,Azm73.0000° $M_0$5.00000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=19.1.

(173) Tonga Islands

ISC	**V**	**17 10 35 27.3–.29**	**15.55S–.05**	**175.17W–.05**	**10**	**5.4s,5.2b**	**664**	**4-176**
IDC	V	17 10 35 24.8–.47	15.60S	175.09W	0	5.3,5.3s		**¶16523292**
ISCJB	V	17 10 35 25.5–.14	15.65S–.05	175.21W–.03	10	5.4s,5.1b		
GCMT	V	17 10 35 26.9–.10	15.51S	175.00W	12	5.7W,5.1b		
NEIC	V	17 10 35 27.0–.15	15.65S	175.22W	10	5.7W,5.6W		
MOS	V	17 10 35 29.4–1.2	15.52S	175.30W	33	5.5s,5.4b		
BJI	V	17 10 35 29.2	15.26S	174.97W	28	5.6s,5.4		
NEIC	V	17 10 35 32.8–.00	15.45S	175.24W	15	5.6s,5.4		

ISC Event type se.

IDC Error ellipse: s-maj=18.2km s-min=11.9km az=142.0.

ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.3km az=157.2.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c217; s135,c374;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.69±.03 $M_{\theta\theta}$2.71±.04; $M_{\phi\phi}$-2.02±.03; $M_{r\theta}$0.82±.09; $M_{\theta\phi}$3.33±.03; $M_{\theta r}$-0.71±.08; Best double couple: NP1: ϕ_s286.00000°,δ81.00000°,λ-15.00000°. NP2:ϕ_s19.00000°,δ75.00000°,λ-171.00000°. Principal axes: T 4.4620,Plg5.0000°,Azm333.0000°; N -0.4200,Plg72.0000°,Azm78.0000° ; P -4.0450,Plg17.0000°,Azm242.0000° $M_0$4.25400×10^{17}

NEIC Event type se. Error ellipse: s-maj=6.9km s-min=3.5km az=152.0. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.72 $M_{\theta\theta}$2.48 $M_{\phi\phi}$-1.76 $M_{r\theta}$0.37 $M_{\theta\phi}$2.36 $M_{\theta r}$0.39 Best double couple: NP1:ϕ_s111.00000°,δ81.00000°,λ1.00000°. NP2:ϕ_s21.00000°,δ89.00000°,λ171.00000°. Principal axes: T 3.5900,Plg7.0000°,Azm336.0000°; N -0.7600,Plg81.0000° ,Azm197.0000°; P -2.8300,Plg6.0000°,Azm66.0000° $M_0$3.30000×10^{17}

MOS Error ellipse: s-maj=10.0km s-min=8.0km az=53.1.

NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.50 $M_{\theta\theta}$2.90 $M_{\phi\phi}$-2.30 $M_{r\theta}$1.50 $M_{\theta\phi}$2.70 $M_{\theta r}$-0.50 Best double couple: NP1:ϕ_s291.00000°,δ87.00000°,λ-23.00000°. NP2:ϕ_s22.00000°,δ66.00000°,λ-177.00000°. Principal axes: T 4.3000,Plg14.0000°,Azm339.0000°; N -0.5000,Plg65.0000°,Azm104.0000° ; P -3.8000,Plg18.0000°,Azm244.0000° $M_0$4.00000×10^{17}

(219) Off east coast of Kamchatka Peninsula

ISC	**V**	**18 17 42 37.0–.27**	**55.44N–.03**	**163.91E–.02**	**25–1**	**5.6b,5.1s**	**1788**	**1-168**
IDC	V	18 17 42 33.2–.34	55.48N	163.75E	0	5.1,5.1		**¶16527352**
BJI	V	18 17 42 33.4	55.71N	163.61E	14	5.6s,5.4		
KRSC	V	18 17 42 34.4–1.1	55.39N	164.03E	69–25	5.5L,5.4		
NEIC	V	18 17 42 35.6–.42	55.52N	163.85E	14–2	5.6b,5.5W		
GCMT	V	18 17 42 35.7–.10	55.47N	164.10E	12–0	5.5W,5.5W		
ISCJB	V	18 17 42 35.8–.48	55.45N–.02	163.96E–.02	29–3	5.5b,5.1s		
NEIC	V	18 17 42 36.0–.00	55.57N	163.75E	18	5.5b,5.1s		
MOS	V	18 17 42 37.1–.99	55.41N	163.90E	45	5.7b,5.0s		

ISC Event type se.

IDC Error ellipse: s-maj=8.7km s-min=6.8km az=157.0.

KRSC Event type se.

NEIC Event type se. Error ellipse: s-maj=3.4km s-min=1.8km az=166.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c153; s119,c285;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.27±.03 $M_{\theta\theta}$-0.32±.02; $M_{\phi\phi}$1.58±.02; $M_{r\theta}$0.91±.07; $M_{\theta\phi}$0.84±.02; $M_{\theta r}$0.58±.06; Best double couple: NP1:ϕ_s225.00000°,δ65.00000°,λ-61.00000°. NP2:ϕ_s353.00000°,δ38.00000°,λ-136.00000°. Principal axes: T 2.1290,Plg15.0000°,Azm294.0000°; N -0.3160,Plg26.0000°,Azm32.0000° ; P -1.8170,Plg60.0000°,Azm178.0000° $M_0$1.97300×10^{17}

ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=1.5km az=165.9.

NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20 $M_{\theta\theta}$0.00 $M_{\phi\phi}$1.20 $M_{r\theta}$0.20 $M_{\theta\phi}$0.50 $M_{\theta r}$-1.30 Best double couple: NP1:ϕ_s0.00000°,δ68.00000°,λ-108.00000°. NP2:ϕ_s221.00000°,δ28.00000°,λ-51.00000°. Principal axes: T 1.8000,Plg21.0000°,Azm103.0000°; N 0.0000,Plg16.0000°,Azm7.0000° ; P -1.8000,Plg62.0000°,Azm241.0000° $M_0$2.00000×10^{17}

MOS Error ellipse: s-maj=5.9km s-min=4.7km az=63.3.

(207) Eastern New Guinea region

ISC	**V**	**18 18 29 02.7–.27**	**6.62S–.04**	**147.81E–.05**	**51**	**4.9b,4.6s**	**305**	**3-153**
MOS	V	18 18 28 59.0–.98	6.54S	147.80E	34	5.0b,4.6s		**¶16527355**
ISCJB	V	18 18 29 00.6–.18	6.64S–.02	147.89E–.03	51	4.9b,4.6s		
IDC	V	18 18 29 02.5–1.5	6.58S	147.80E	53–14	4.8s,4.7		
GCMT	V	18 18 29 02.8–.20	6.63S	147.79E	14–0	5.1W,4.7		
NEIC	V	18 18 29 02.8–.63	6.65S	147.84E	57–6	4.9b,4.7		
DJA	V	18 18 29 05.1–.50	7S–3.0	148E–4.0	56–5	5.6b,5.3		

ISC Event type se.

ISCJB Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c68; s89,c144;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.71±.17 $M_{\theta\theta}$0.64±.12; $M_{\phi\phi}$2.07±.14; $M_{r\theta}$-1.18±.26; $M_{\theta\phi}$4.21±.11; $M_{\theta r}$1.23±.28; Best double couple: NP1:ϕ_s184.00000°,δ62.00000°,λ-145.00000°. NP2:ϕ_s76.00000°,δ60.00000°,λ-33.00000°. Principal axes: T 5.6300,Plg1.0000°,Azm310.0000°; N -1.1160,Plg47.0000°,Azm219.0000° ; P -4.5120,Plg43.0000°,Azm41.0000° $M_0$5.07100×10^{16}

NEIC Event type se.

(207) Eastern New Guinea region

ISC	**V**	**18 18 51 26.4–.39**	**6.65S–.03**	**147.93E–.04**	**49–3**	**5.2s,5.1b**	**413**	**3-153**
MOS	V	18 18 51 23.8–1.4	6.57S	147.87E	41	5.4s,5.3b		**¶16528316**
BJI	V	18 18 51 23.9	6.58S	148.26E	60	5.4s,5.2		
ISCJB	V	18 18 51 24.1–.62	6.60S–.02	147.99E–.03	45–5	5.2s,5.1b		
IDC	V	18 18 51 25.4–1.4	6.56S	147.87E	42–12	5.2,5.2s		
NEIC	V	18 18 51 26.6–.58	6.63S	147.89E	53–5	5.2b,5.2s		
GCMT	V	18 18 51 26.6–.10	6.69S	147.81E	14–0	5.5W,5.2s		
DJA	V	18 18 51 34.2–.60	7S–3.0	148E–4.0	94–5	5.8b,5.5		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s114,c199; s112,c208;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$0.06±.02; $M_{\phi\phi}$1.02±.02; $M_{r\theta}$-0.98±.06; $M_{\theta\phi}$1.21±.02; $M_{\theta r}$0.51±.05; Best double couple: NP1:ϕ_s68.00000°,δ60.00000°,λ-41.00000°. NP2:ϕ_s181.00000°,δ55.00000°,λ-143.00000°. Principal axes: T 1.8480,Plg3.0000°,Azm125.0000° ; N 0.1880,Plg41.0000°,Azm218.0000°; P -2.0370,Plg49.0000°,Azm32.0000° $M_0$1.94300×10^{17}

(207) Eastern New Guinea region

ISC	**V**	**18 20 56 03.1–.56**	**6.59S–.06**	**148.07E–.09**	**51**	**4.7b,4.0s**	**63**	**3-153**
ISCJB	V	18 20 56 00.8–.45	6.65S–.05	148.21E–.07	51	4.7b,4.1s		**¶16710221**
IDC	V	18 20 56 02.6–2.4	6.72S	148.19E	52–20	4.4,4.3		
NEIC	V	18 20 56 04.8–.95	6.66S	147.94E	67–9	4.8b,4.3		
DJA	V	18 20 56 09.9–1.1	7S–6.0	148E–9.0	88–7	5.6b,5.1		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

(175) South of Tonga Islands

ISC	**V**	**18 21 39 45.1–.54**	**25.35S–.04**	**175.92W–.05**	**49–4**	**5.4b,4.9s**	**573**	**4-177**
IDC	V	18 21 39 38.1–.45	25.15S	175.94W	0	5.9L,5.1		**¶16560100**
BJI	V	18 21 39 40.7	24.76S	175.45W	25	5.6b,5.3b		
ISCJB	V	18 21 39 41.1–.17	25.54S–.03	175.93W–.04	33	5.4b,4.8s		
MOS	V	18 21 39 43.7–1.2	25.15S	176.05W	42	5.3b,4.8s		
GCMT	V	18 21 39 46.2–.10	25.18S	175.53W	43–1	5.4W,4.8s		
NEIC	V	18 21 39 46.2–1.6	25.21S	176.01W	58–14	5.3b,4.8s		

ISC Event type se.

IDC Error ellipse: s-maj=17.1km s-min=14.5km az=145.0.

ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.5km az=28.6.

MOS Error ellipse: s-maj=9.9km s-min=8.1km az=100.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c163; s125,c215; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50±.02 $M_{\theta\theta}$0.29±.02; $M_{\phi\phi}$-0.78±.02; $M_{r\theta}$-0.30±.02; $M_{\theta\phi}$-0.75±.02; $M_{\theta r}$1.24±.03; Best double couple: NP1:ϕ_s351.00000°,δ79.00000°,λ57.00000°. NP2:ϕ_s245.00000°,δ34.00000°,λ161.00000°. Principal axes: T 1.5970,Plg46.0000°,Azm228.0000°; N 0.0750,Plg32.0000°,Azm358.0000° ; P -1.6720,Plg27.0000°,Azm107.0000° $M_0$1.63500×10^{17}

NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=156.0.

(221) Kuril Islands

ISC	**V**	**19 06 35 25.2–.63**	**46.68N–.05**	**152.83E–.04**	**42–5**	**4.7b,3.9s**	**279**	**4-131**
NIED	V	19 06 35 00	47.00N	152.90E	5	4.9W,3.9s		**¶16529259**
JMA	V	19 06 35 23.1–.80	46.99N	152.88E	30	5.3,3.9s		
ISCJB	V	19 06 35 23.5–.48	46.70N–.03	152.83E–.04	40–4	4.7b,3.8s		
MOS	V	19 06 35 24.7–1.1	46.74N	152.77E	53	4.9b,3.8s		
SKHL	V	19 06 35 25.0–.80	46.63N	153.00E	60–5	5.5b,5.1s		
NEIC	V	19 06 35 26.1–.57	46.73N	152.70E	50–5	4.8b,5.1s		
IDC	V	19 06 35 28.9–2.5	46.85N	152.69E	72–22	4.4,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ4.00000°,λ136.00000°. NP2:ϕ_s327.00000°,δ87.00000°,λ87.00000°. $M_0$2.67000×10^{16}

JMA Error ellipse: s-maj=7.8km s-min=7.6km az=-1.0.

ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=2.8km az=142.7.

MOS Error ellipse: s-maj=7.9km s-min=5.9km az=59.0.

NEIC Event type se. Error ellipse: s-maj=7.7km s-min=3.0km az=140.0.

IDC Error ellipse: s-maj=19.1km s-min=10.4km az=139.0.

(221) Kuril Islands

ISC	**V**	**19 08 55 02.6–.71**	**44.38N–.05**	**149.29E–.04**	**34–2**	**4.7b,4.3s**	**677**	**1-152**
NIED	V	19 08 55 00	44.50N	149.10E	38	5.0W,4.3s		**¶16529262**
ISCJB	V	19 08 55 00.2–.41	44.30N–.03	149.31E–.03	35–3	4.6b,4.3s		
MOS	V	19 08 55 01.4–1.2	44.40N	149.19E	40	4.8b,4.3s		
SKHL	V	19 08 55 02.1–.80	44.33N	149.31E	48–5	5.5b,5.1s		
JMA	V	19 08 55 02.4–.60	44.52N	149.12E	30	4.9,5.1s		
IDC	V	19 08 55 03.2–2.3	44.39N	149.20E	46–21	4.4,4.3		
NEIC	V	19 08 55 03.7–.53	44.37N	149.13E	47–4	4.7b,4.3		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ36.00000°,λ-5.00000°. NP2:ϕ_s252.00000°,δ87.00000°,λ-126.00000°. $M_0$3.30000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=155.7.

MOS Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=96.7. Felt (II-III) at Kuril'sk. Moment Tensor Solution.

SKHL Event type fe. Felt (II-III) at Kurilsk.

JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.

IDC Error ellipse: s-maj=14.6km s-min=11.0km az=151.0.

NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.1km az=154.0. Felt [III] at Kuril'sk.

(366) Turkey

ISC	**V**	**19 20 15 25.1–.36**	**39.13N–.01**	**29.07E–.01**	**12–2**	**5.8b,5.8s**	**3029**	**0-164**
GCMT	V	19 20 15 22.9–.10	39.08N	29.11E	12–0	5.9W,5.8s		**¶602607377**
NEIC	V	19 20 15 22.9	39.15N	29.10E	7	6.2L,5.9L		
DDA	V	19 20 15 22.8	39.13N	29.08E	24	5.7L,5.9L		
MOS	V	19 20 15 22.8–1.1	39.20N	29.09E	9	6.0b,5.8s		
BJI	V	19 20 15 22.1	39.10N	29.00E	10	6.1s,6.0b		
ISCJB	V	19 20 15 22.1–.24	39.126N–.01	29.122E–.01	6–1	5.7s,5.7b		
SFS	V	19 20 15 22.0	39.15N	29.10E	7	5.8L,5.7b		
IDC	V	19 20 15 22.8–.29	39.13N	29.10E	0	5.5,5.5s		
PDA	V	19 20 15 23.0	39.15N	29.10E	7	5.9L,5.5s		
NEIC	V	19 20 15 23.0–.00	39.11N	29.12E	15	5.9L,5.5s		

CSEM	V	19 20 15 23.4–.04	39.14N	29.13E	2	5.8s,5.8b
ISN	V	19 20 15 23.3–.96	39.15N	29.29E	0–90	5.8L,5.8b
THE	V	19 20 15 23.8	39.11N	29.12E	1–0	6.1L,5.8b
ISK	V	19 20 15 23.0	39.16N	29.10E	8	5.9L,5.8b
PDG	V	19 20 15 23.7–.68	39.16N	29.07E	13–1	6.0,5.9L
GII	V	19 20 15 25.3–.00	38.77N	28.95E	1	5.2,5.1b
NIC	V	19 20 15 26.4–.50	38.92N	28.74E	25	5.3b,5.1L
SOF	V	19 20 15 28.3	39.64N	28.93E	2	4.5,5.1L

ISC Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c267; s136,c438;Duration: 2$s2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.89±.01; $M_{\phi\phi}$-0.08±.01; $M_{r\theta}$0.03±.01; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-0.05±.02; Best double couple: NP1:ϕ_s286.00000°,δ46.00000°,λ-85.00000°. NP2:ϕ_s98.00000°,δ44.00000°,λ-96.00000°. Principal axes: T 0.9390,Plg1.0000°,Azm12.0000° ; N -0.1280,Plg4.0000°,Azm102.0000°; P -0.8110,Plg86.0000°,Azm264.0000° $M_0$0.87500×10^{18}

NEIC Event type fe. Felt [VI] at Simav and [V] at Kutahya and Usak. Felt throughout western Turkey and as far as Adana and Corum. Felt [III] at Burgas and [II] at Plovdiv and Sofia, Bulgaria. Felt at Alexandroupoli, Mitilini, Orestias and Souflion, Greece. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After ISK. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.05 $M_{\theta\theta}$6.23 $M_{\phi\phi}$-1.17 $M_{r\theta}$2.07 $M_{\theta\phi}$-2.31 $M_{\phi r}$1.90 Best double couple: NP1:ϕ_s262.00000°,δ58.00000°,λ-122.00000°. NP2:ϕ_s131.00000°,δ44.00000°,λ-50.00000°. Principal axes: T 7.0800,Plg7.0000°,Azm14.0000°; N -0.6200,Plg27.0000°,Azm280.0000° ; P -6.4600,Plg62.0000°,Azm118.0000° $M_0$6.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s37.00000°,δ46.00000°,λ-144.00000°. NP2: ϕ_s280.00000°,δ65.00000°,λ-50.00000°. Principal axes: T Plg11.0000°,Azm342.0000° ; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm238.0000°

DDA Event type ke.

MOS Error ellipse: s-maj=3.7km s-min=2.6km az=103.8.

ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.2km az=23.5.

SFS Event type ke.

IDC Error ellipse: s-maj=7.5km s-min=7.0km az=171.0.

NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.49 $M_{\theta\theta}$5.79 $M_{\phi\phi}$0.70 $M_{r\theta}$-1.73 $M_{\theta\phi}$-1.24 $M_{\phi r}$1.46 Best double couple: NP1:ϕ_s111.00000°,δ54.00000°,λ-80.00000°. NP2:ϕ_s275.00000°,δ37.00000°,λ-102.00000°. Principal axes: T 6.3900,Plg8.0000°,Azm194.0000°; N 0.5500,Plg7.0000°,Azm285.0000° ; P -6.9500,Plg78.0000°,Azm55.0000° $M_0$6.70000×10^{17}

CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=21.0.

ISN Error ellipse: s-maj=30.2km s-min=88.1km az=-1.0.

THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=65.0.

PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.

GII Event type ke.

(228) Near east coast of eastern Honshu

ISC	V	20 00 46 16.4–.32	35.82N–.02	141.05E–.03	28–1	5.7b,5.4s	1986	0-162
NIED	V	20 00 46 00	35.80N	141.30E	32	5.7W,5.4s	¶16529675	
IDC	V	20 00 46 12.4–.33	35.78N	141.03E	0	5.5,5.5		
BJI	V	20 00 46 14.1	35.73N	141.02E	35	5.7s,5.6		
MOS	V	20 00 46 15.6–.86	35.78N	140.99E	33	6.0b,5.5s		
JMA	V	20 00 46 15.4–.10	35.80N	141.18E	36–1	5.8,5.5s		
NEIC	V	20 00 46 16.0–.00	35.94N	141.38E	26	5.8,5.5s		
NEIC	V	20 00 46 16.9–.10	35.76N	140.84E	29	5.8W,5.7		
GCMT	V	20 00 46 17.0–.10	35.74N	141.22E	37–0	5.8W,5.7		
ISCJB	V	20 00 46 17.0–.24	35.73N–.01	140.91E–.01	43–2	5.7b,5.4s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s13.00000°,δ74.00000°,λ93.00000°. $M_0$3.95000×10^{17}

JMA Event type ke.

NEIC Event type se. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}3.00 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-2.80 $M_{r\theta}$2.90 $M_{\theta\phi}$-0.70 $M_{\phi r}$5.70 Best double couple: NP1:ϕ_s25.00000°,δ77.00000°,λ95.00000°. NP2:ϕ_s183.00000°,δ13.00000°,λ68.00000°. Principal axes: T 7.1000,Plg57.0000°,Azm301.0000°; N -0.1000,Plg4.0000°,Azm204.0000° ; P -7.0000,Plg32.0000°,Azm111.0000° $M_0$7.00000×10^{17}

NEIC Event type fe. Felt [II] at Tokyo. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s52 Moment tensor: Scale 10^{17} Nm; M_{rr}2.68 $M_{\theta\theta}$-1.21 $M_{\phi\phi}$-1.46 $M_{r\theta}$1.03 $M_{\theta\phi}$0.35 $M_{\phi r}$2.59 Best double couple: NP1: ϕ_s168.00000°,δ20.00000°,λ67.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ98.00000°. Principal axes: T 4.1400,Plg62.0000°,Azm295.0000°; N -1.4200,Plg8.0000°,Azm190.0000° ; P -2.7200,Plg26.0000°,Azm96.0000° $M_0$3.60000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c236; s130,c345;Duration: 1$s9 Moment tensor: Scale 10^{17} Nm; M_{rr}4.38±.05 $M_{\theta\theta}$-0.50±.04; $M_{\phi\phi}$-3.88±.04; $M_{r\theta}$1.02±.05; $M_{\theta\phi}$-1.34±.03; $M_{\phi r}$3.63±.06; Best double couple: NP1:ϕ_s17.00000°,δ65.00000°,λ88.00000°. NP2:ϕ_s201.00000°,δ25.00000°,λ94.00000°. Principal axes: T 5.7870,Plg70.0000°,Azm283.0000° ; N -0.0370,Plg2.0000°,Azm18.0000°; P -5.7460,Plg20.0000°,Azm108.0000° $M_0$5.76700×10^{17}

ISCJB Event type fe.

(207) Eastern New Guinea region

ISC	V	20 19 43 17.4–.41	7.20S–.02	146.94E–.03	14–2	6.1b,5.5s	1747	2-167
ISCJB	V	20 19 43 13.9–.75	7.19S–.02	146.91E–.02	0–4	6.1b,5.5s	¶602607383	
IDC	V	20 19 43 15.6–.25	7.16S	146.85E	0	5.8,5.8		
BJI	V	20 19 43 15.7	7.15S	147.00E	10	6.2b,5.8b		
NEIC	V	20 19 43 15.0–.00	7.21S	146.89E	15	6.2b,5.8b		
GCMT	V	20 19 43 16.2–.10	7.38S	147.05E	12	5.7W,5.8b		
NEIC	V	20 19 43 16.2–.09	7.19S	146.91E	7	6.2b,5.7		
MOS	V	20 19 43 18.7–.87	7.22S	146.88E	33	6.2b,5.5s		
DJA	V	20 19 43 21.0–.90	7S–2.0	147E–3.0	36–7	6.3b,6.2		

ISC Event type fe.

ISCJB Event type fe.

NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.10 $M_{\theta\theta}$0.40 $M_{\phi\phi}$1.70 $M_{r\theta}$-1.10 $M_{\theta\phi}$-3.20 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s356.00000°,δ63.00000°,λ-36.00000°. NP2:ϕ_s104.00000°,δ58.00000°,λ-148.00000°. Principal axes: T 4.3000,Plg3.0000°,Azm51.0000°; N -0.4000,Plg46.0000°,Azm145.0000° ; P -3.9000,Plg43.0000°,Azm318.0000° $M_0$4.00000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c194; s130,c374;Duration: 1$s8 Moment tensor: Scale 10^{17} Nm; M_{rr}-1.97±.04 $M_{\theta\theta}$0.71±.04; $M_{\phi\phi}$1.26±.04; $M_{r\theta}$-1.27±.09; $M_{\theta\phi}$-3.88±.03; $M_{\phi r}$-1.91±.10; Best double couple: NP1:ϕ_s355.00000°,δ67.00000°,λ-33.00000°. NP2:ϕ_s99.00000°,δ60.00000°,λ-153.00000°. Principal axes: T 4.9210,Plg5.0000°,Azm48.0000° ; N -0.1900,Plg50.0000°,Azm144.0000°; P -4.7280,Plg39.0000°,Azm314.0000° $M_0$4.82500×10^{17}

NEIC Event type fe. Felt at Kainantu, Port Moresby and Wau. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.15 $M_{\theta\theta}$1.71 $M_{\phi\phi}$1.43 $M_{r\theta}$1.24 $M_{\theta\phi}$-2.63 $M_{\phi r}$-0.81 Best double couple: NP1:ϕ_s308.00000°,δ56.00000°,λ-97.00000°. NP2:ϕ_s141.00000°,δ35.00000°,λ-79.00000°. Principal axes: T 4.4900,Plg11.0000°,Azm43.0000° ; N -1.0400,Plg6.0000°,Azm312.0000°; P -3.4500,Plg78.0000°,Azm193.0000° $M_0$4.10000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s270.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s90.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm180.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000° ,Azm360.0000°

(706) Northern Sumatera

ISC	V	20 20 13 41.6–1.1	0.40N–.05	98.45E–.05	44–10	4.5b	140	1-159
IDC	V	20 20 13 35.3–.46	0.47N	98.51E	0	4.7L,4.4	¶16531783	
ISCJB	V	20 20 13 41.7–.69	0.42N–.04	98.47E–.05	61–5	4.5b,4.4		
NEIC	V	20 20 13 42.0–.77	0.37N	98.51E	52–7	4.5b,4.4		
DJA	V	20 20 13 43.2–.80	1N–5.0	98E–5.0	29–9	4.7b,4.7		
KLM	V	20 20 13 44.5	0.60N	98.34E	65	6.0s,4.5b		

ISC Event type se.

IDC Error ellipse: s-maj=20.3km s-min=11.5km az=62.0.

ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.2km az=145.4.

NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.5km az=59.0.

(706) Northern Sumatera

ISC	V	20 23 20 19.5–.37	0.42N–.05	98.39E–.05	43	4.3b,3.3s	112	1-159
ISCJB	V	20 23 20 17.3–.28	0.35N–.04	98.38E–.03	43	4.4b,3.3s	¶16531785	
IDC	V	20 23 20 19.6–.75	0.50N	98.57E	44–6	4.1,4.0L		
DJA	V	20 23 20 20.1–.80	0N–3.0	98E–3.0	29–9	4.8b,4.7		
NEIC	V	20 23 20 20.4–.62	0.38N	98.47E	55–5	4.6b,4.7		
KLM	V	20 23 20 21.1	0.22N	98.48E	48	6.0s,4.5b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=41.5.

IDC Error ellipse: s-maj=15.2km s-min=10.2km az=64.0.

NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.0km az=46.0.

(153) South Sandwich Islands region

ISC	V	21 00 41 38.3–.30	56.00S–.07	27.27W–.07	50	5.1b,5.0s	134	6-169
MOS	V	21 00 41 35.9–.96	56.04S	27.30W	45	5.2b,5.0s	¶16531786	
ISCJB	V	21 00 41 36.4–.29	55.97S–.05	27.22W–.09	50	5.0b,4.8s		
NEIC	V	21 00 41 37.3–1.6	55.99S	27.16W	41–13	5.1b,4.8s		
BJI	V	21 00 41 37.1	56.00S	27.20W	35	5.5s,5.3		
IDC	V	21 00 41 40.1–1.4	56.01S	27.21W	71–11	4.7,4.5		

ISC Event type se.

MOS Error ellipse: s-maj=23.4km s-min=13.3km az=101.0.

ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.6km az=137.8.

NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.7km az=225.0.

IDC Error ellipse: s-maj=17.5km s-min=11.7km az=39.0.

(249) Luzon

ISC	V	21 13 08 04.8–.41	17.25N–.02	121.91E–.03	34–1	5.2b,4.7s	702	0-170
IDC	V	21 13 07 59.0–.44	17.11N	121.74E	0	5.0,5.0	¶16531800	
MAN	V	21 13 08 01	17.19N	121.89E	13	5.9b,5.5s		
MOS	V	21 13 08 02.5–1.1	17.17N	121.78E	33	5.4b,4.6s		
ISCJB	V	21 13 08 02.6–.41	17.25N–.01	121.88E–.02	31–3	5.1b,4.6s		
NEIC	V	21 13 08 04.5–.55	17.19N	121.72E	35–5	5.3b,4.6s		
BJI	V	21 13 08 04.6	17.24N	121.86E	46	5.1b,5.0s		
GCMT	V	21 13 08 04.5–.10	17.31N	121.91E	13–0	5.2W,5.0s		
KLM	V	21 13 08 07.6	17.23N	122.13E	94	5.8s,5.2b		
BKK	V	21 13 08 09.3–5.9	17N–15	122E–40	90–30	5.1b,4.7b		

ISC Event type fe.

MAN Event type fe. INTENSITY V - ILAGAN ISABELA; INTENSITY IV - TUGUEGARAO CITY; PENABLANCA CAGAYAN; QUIRINO AND TUMAUINI ISABELA; INTENSITY II - BAGUIO CITY; TABUK KALINGA.

ISCJB Event type fe.

NEIC Event type fe. Felt [V PIVS] at Ilagan; [IV PIVS] at Baler, Penablanca, Quirino, Tuguegarao City and Tumauini; [II PIVS] at Baguio and Tabuk. Also felt at Angadanan, Bayombong, Cabarroguis, Gamu, Luna, San Mateo and Santiago.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c89; s113,c200;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.24±.13 $M_{\theta\theta}$-6.04±.12; $M_{\phi\phi}$4.81±.12; $M_{r\theta}$1.13±.25; $M_{\theta\phi}$2.79±.09; $M_{\phi r}$1.72±.30; Best double couple: NP1:ϕ_s61.00000°,δ79.00000°,λ19.00000°. NP2:ϕ_s327.00000°,δ71.00000°,λ168.00000°. Principal axes: T 6.2420,Plg21.0000°,Azm285.0000°; N 0.5460,Plg68.0000°,Azm90.0000° ; P -6.7780,Plg5.0000°,Azm193.0000° $M_0$6.51000×10^{16}

(178) Kermadec Islands

ISC	V	21 21 17 02.2–.48	30.85S–.03	178.11W–.03	34–1	5.6b,5.4s	1200	2-172
ISCJB	V	21 21 16 58.5–.09	30.92S–.02	178.17W–.03	17	5.6b,5.4s	¶16560116	
BJI	V	21 21 16 58.2	30.21S	177.49W	19	5.8b,5.6b		
MOS	V	21 21 17 01.6–1.1	30.70S	178.15W	33	5.7b,5.5s		
NEIC	V	21 21 17 02.0–.00	30.82S	178.17W	34	5.7b,5.5s		
NEIC	V	21 21 17 02.4–.13	30.82S	178.17W	34	5.9W,5.8		
GCMT	V	21 21 17 02.4–.10	30.81S	177.96W	53–0	5.8W,5.8		
IDC	V	21 21 17 03.4–1.0	30.58S	178.17W	44–8	5.3,5.3		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=1.9km az=31.1.

MOS Error ellipse: s-maj=8.3km s-min=6.3km az=84.9.

NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}6.81 $M_{\theta\theta}$1.62 $M_{\phi\phi}$-8.43 $M_{r\theta}$-1.18 $M_{\theta\phi}$-0.91 $M_{\phi r}$0.07 Best double couple: NP1:ϕ_s197.00000°,δ46.00000°,λ107.00000°. NP2:ϕ_s353.00000°,δ46.00000°,λ73.00000°. Principal axes: T 7.0700,Plg77.0000°,Azm184.0000°; N 1.4400,Plg12.0000°,Azm5.0000° ; P -8.5100,Plg0.0000°,Azm275.0000° $M_0$7.90000×10^{17}

NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.5km az=129.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}5.88 $M_{\theta\theta}$-2.61 $M_{\phi\phi}$-3.27 $M_{r\theta}$-0.35 $M_{\theta\phi}$-2.05 $M_{\phi r}$-0.25 Best double couple: NP1:ϕ_s221.00000°,δ47.00000°,λ91.00000°. NP2: ϕ_s40.00000°,δ43.00000°,λ89.00000°. Principal axes: T 5.9000,Plg88.0000°,Azm152.0000° ; N -0.8700,Plg1.0000°,Azm41.0000°; P -5.0400,Plg2.0000°,Azm310.0000° $M_0$5.50000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c281; s128,c368;Duration: 2$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}6.91±.06 $M_{\theta\theta}$-0.37±.05; $M_{\phi\phi}$-6.54±.05; $M_{r\theta}$-0.25±.05; $M_{\theta\phi}$-2.05±.04; $M_{\phi r}$0.66±.05; Best double couple: NP1: ϕ_s13.00000°,δ47.00000°,λ85.00000°. NP2:ϕ_s200.00000°,δ43.00000°,λ95.00000°. Principal axes: T 6.9590,Plg86.0000°,Azm229.0000°; N 0.2230,Plg4.0000°,Azm17.0000° ; P -7.1810,Plg2.0000°,Azm107.0000° $M_0$7.07000×10^{17}

IDC Error ellipse: s-maj=11.2km s-min=9.3km az=5.0.

(228) Near east coast of eastern Honshu

ISC	V	21 22 06 25.8–.21	35.63N–.02	140.71E–.03	36–1	5.6b,5.0s	1701	0-166
NIED	V	21 22 06 00	35.80N	140.70E	50	5.5W,5.0s	¶602607399	
BJI	V	21 22 06 21.6	35.58N	140.90E	39	5.7b,5.4b		
GCMT	V	21 22 06 26.4–.20	35.64N	140.79E	49–0	5.5W,5.4b		
NEIC	V	21 22 06 26.0–.00	35.59N	140.73E	34	5.5W,5.4b		
NEIC	V	21 22 06 26.4–.38	35.60N	140.49E	37–3	5.6W,5.5b		
MOS	V	21 22 06 27.4–.81	36.01N	140.44E	42	5.8b,4.9s		
JMA	V	21 22 06 27.4–.10	35.73N	140.64E	48–1	5.5,4.9s		
IDC	V	21 22 06 29.0–1.2	35.66N	140.49E	57–10	5.4,5.2		
ISCJB	V	21 22 06 28.1–.22	35.61N–.02	140.46E–.02	61–1	5.6b,5.2		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ22.00000°,λ136.00000°. NP2:ϕ_s357.00000°,δ75.00000°,λ74.00000°. $M_0$1.91000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c147; s118,c237;Duration: 1$s4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.10±.05 $M_{\theta\theta}$-0.06±.03; $M_{\phi\phi}$-2.04±.03; $M_{r\theta}$-0.15±.03; $M_{\theta\phi}$-0.39±.02; $M_{\phi r}$1.32±.03; Best double couple: NP1:ϕ_s2.00000°,δ61.00000°,λ81.00000°. NP2:ϕ_s200.00000°,δ30.00000°,λ106.00000°. Principal axes: T 2.5110,Plg72.0000°,Azm251.0000°; N -0.0420,Plg8.0000° ,Azm6.0000°; P -2.4720,Plg16.0000°,Azm98.0000° $M_0$2.49100×10^{17}

NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.60 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.90 Best double couple: NP1:ϕ_s352.00000°,δ77.00000°,λ80.00000°. NP2:ϕ_s209.00000°,δ15.00000°,λ125.00000°. Principal axes: T 3.4000,Plg56.0000°,Azm250.0000°; N -0.1000,Plg9.0000°,Azm354.0000° ; P -3.3000,Plg31.0000°,Azm89.0000° $M_0$3.00000×10^{17}

NEIC Event type fe. Felt [IV] at Narita; [III] at Tokyo, Yokosuka and Zushi; [II] at Yokohama. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba and Ibaraki.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ79.00000°,λ87.00000°. NP2:ϕ_s210.00000°,δ11.00000°,λ106.00000°. Principal axes: T Plg56.0000°,Azm279.0000°; N Plg3.0000°,Azm14.0000°; P Plg34.0000° ,Azm106.0000°

ISCJB Event type fe.

(274) Southern Sumatera

ISC	V	22 07 23 17.7–.90	5.49S–.09	102.78E–.09	38	4.0b	24	1-146
ISCJB	V	22 07 23 14.6–.74	5.63S–.07	102.61E–.06	38	4.0b	¶17204204	
DJA	V	22 07 23 16.0–.70	4S–10	104E–9.0	153–10	5.5b,5.1b		
IDC	V	22 07 23 20.9–1.3	5.47S	102.70E	75–7	4.0,3.8		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.0km az=31.8.

IDC Error ellipse: s-maj=51.8km s-min=15.1km az=51.0.

(229) Off east coast of Honshu

ISC	V	22 14 46 11.5–.34	37.64N–.03	143.53E–.03	28–1	5.5b,5.2s	1413	2-159
NIED	V	22 14 46 00	37.60N	143.40E	11	5.5W,5.2s	¶16533376	
IDC	V	22 14 46 07.3–.40	37.59N	143.60E	0	5.3,5.3		
ISCJB	V	22 14 46 08.1–.48	37.62N–.02	143.49E–.01	14–2	5.4b,5.2s		
JMA	V	22 14 46 10.2–.20	37.58N	143.46E	45	5.6,5.2s		
NEIC	V	22 14 46 11.7–.46	37.60N	143.49E	29–3	5.6W,5.5b		
GCMT	V	22 14 46 11.7–.10	37.59N	143.59E	17–0	5.6W,5.5b		
MOS	V	22 14 46 13.4–.85	37.99N	143.47E	40	5.7b,5.2s		
BJI	V	22 14 46 14.3	37.76N	142.85E	29	5.6b,5.6s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ68.00000°,λ-8.00000°. NP2:ϕ_s153.00000°,δ83.00000°,λ-158.00000°. $M_0$2.21000×10^{17}

IDC Error ellipse: s-maj=11.5km s-min=10.6km az=109.0.

ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.6km az=159.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=149.0. Recorded [2 JMA] in Fukushima and Miyagi. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56 $M_{\theta\theta}$-2.07 $M_{\phi\phi}$2.63 $M_{r\theta}$0.28 $M_{\theta\phi}$1.11 $M_{\phi r}$0.22 Best double couple: NP1:ϕ_s237.00000°,δ88.00000°,λ-8.00000°. NP2:ϕ_s328.00000°,δ82.00000°,λ-178.00000°. Principal axes: T 2.9000,Plg5.0000°,Azm283.0000°; N -0.5600,Plg81.0000°,Azm44.0000°

; P -2.3500,Plg7.0000°,Azm192.0000° $M_0$2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s90,c173; s122,c317;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.03 $M_{\theta\theta}$-2.17±.03; $M_{\phi\phi}$3.02±.03; $M_{r\theta}$0.05±.08; $M_{\theta\phi}$1.36±.03; $M_{\phi r}$1.05±.09; Best double couple: NP1:ϕ_s329.00000°,δ86.00000°,λ165.00000°. NP2:ϕ_s60.00000°,δ75.00000°,λ4.00000°. Principal axes: T 3.5940,Plg13.0000°,Azm283.0000°; N -1.0670,Plg75.0000°,Azm135.0000° ; P -2.5320,Plg8.0000°,Azm15.0000° $M_0$3.06300×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=3.4km az=105.7.

(229) Off east coast of Honshu

ISC	**V**	**24 03 40 52.1–.32**	**39.78N–.02**	**143.32E–.03**	**24–1**	**5.8b,5.6s**	**2011**	**1-158**
NIED	V	24 03 40 00	39.80N	143.50E	17	5.8W,5.6s		¶602607425
IDC	V	24 03 40 48.8–.48	39.74N	143.37E	0	5.7,5.7s		
ISCJB	V	24 03 40 49.6–.53	39.75N–.02	143.33E–.01	12–3	5.7b,5.7s		
JMA	V	24 03 40 50.0–.20	39.78N	143.49E	27	5.8,5.7s		
BJI	V	24 03 40 51.6	39.75N	143.15E	30	6.1,6.1s		
NEIC	V	24 03 40 51.3–.10	39.71N	143.25E	16	5.8,5.8W		
GCMT	V	24 03 40 52.2–.10	39.75N	143.42E	25	5.9W,5.8W		
NEIC	V	24 03 40 52.0–.00	39.72N	143.24E	22	5.9W,5.8W		
MOS	V	24 03 40 53.1–.90	39.92N	143.21E	31	6.0b,5.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ66.00000°. NP2:ϕ_s28.00000°,δ71.00000°,λ99.00000°. $M_0$5.34000×10^{17}
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=143.0. Felt at Ichinoseki and Misawa. Recorded [3 JMA] in Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tension Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}3.10 $M_{\theta\theta}$-0.85 $M_{\phi\phi}$-2.25 $M_{r\theta}$2.96 $M_{\theta\phi}$-1.12 $M_{\phi r}$5.36 Best double couple: NP1:ϕ_s209.00000°,δ13.00000°,λ90.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ90.00000°. Principal axes: T 6.9300,Plg58.0000°,Azm299.0000° ; N -0.2300,Plg0.0000°,Azm29.0000°; P -6.7000,Plg32.0000°,Azm119.0000° $M_0$6.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c237; s134,c379;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}3.45±.04 $M_{\theta\theta}$-0.04±.03; $M_{\phi\phi}$-3.41±.03; $M_{r\theta}$3.08±.09; $M_{\theta\phi}$-0.90±.03; $M_{\phi r}$6.37±.08; Best double couple: NP1:ϕ_s25.00000°,δ77.00000°,λ95.00000°. NP2:ϕ_s183.00000°,δ14.00000°,λ69.00000°. Principal axes: T 7.8850,Plg58.0000°,Azm301.0000°; N 0.0550,Plg5.0000°,Azm203.0000° ; P -7.9440,Plg32.0000°,Azm110.0000° $M_0$7.91400×10^{17}
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}2.58 $M_{\theta\theta}$-0.38 $M_{\phi\phi}$-2.19 $M_{r\theta}$1.81 $M_{\theta\phi}$-0.33 $M_{\phi r}$5.71 Best double couple: NP1:ϕ_s17.00000°,δ79.00000°,λ92.00000°. NP2:ϕ_s186.00000°,δ11.00000°,λ79.00000°. Principal axes: T 6.6300,Plg55.0000°,Azm289.0000°; N -0.3600,Plg2.0000°,Azm196.0000° ; P -6.2800,Plg34.0000°,Azm105.0000° $M_0$6.50000×10^{17}
MOS Error ellipse: s-maj=5.5km s-min=3.5km az=102.3.

(274) Southern Sumatera

ISC	**V**	**24 08 11 09.7–.35**	**5.39S–.04**	**102.39E–.05**	**34**	**4.9b,3.9s**	**410**	**1-152**
BJI	V	24 08 11 02.8	6.07S	102.48E	39	5.0b,4.9b		¶16536854
IDC	V	24 08 11 06.0–.73	5.07S	102.58E	0	4.8,4.7		
ISCJB	V	24 08 11 08.5–.24	5.31S–.03	102.44E–.03	34	4.8b,3.8s		
DJA	V	24 08 11 09.6–1.1	5S–4.0	102E–4.0	19–12	5.6b,5.2b		
NEIC	V	24 08 11 11.0–.64	5.27S	102.42E	40–5	5.0b,5.2b		
MOS	V	24 08 11 10.6–.91	4.97S	102.70E	41	5.1b,5.2b		
KLM	V	24 08 11 13.3	5.41S	102.53E	50	5.5s,4.9b		

ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=11.9km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.2km az=42.7.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.0km az=47.0.
MOS Error ellipse: s-maj=12.6km s-min=5.7km az=111.7.

(274) Southern Sumatera

ISC	**V**	**24 23 29 34.5–.35**	**4.31S–.04**	**102.13E–.04**	**49–2**	**4.9b,3.6s**	**688**	**1-161**
MOS	V	24 23 29 32.6–1.1	4.06S	102.37E	43	5.2b,3.6s		¶16539619
DJA	V	24 23 29 34.7–.40	4S–2.0	102E–2.0	32–4	5.5b,5.3		
IDC	V	24 23 29 34.2–.42	4.11S	102.35E	44–3	4.8,4.6		
KLM	V	24 23 29 35.2	4.51S	101.88E	75	6.2s,5.2L		
NEIC	V	24 23 29 35.2–.41	4.18S	102.27E	54–3	5.0b,5.2L		
ISCJB	V	24 23 29 35.4–.42	4.21S–.03	102.27E–.03	70–3	4.8b,5.2L		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Kapahiang. Also felt at Bengkulu.
ISCJB Event type fe.

(411) Tristan da Cunha region

ISC	**V**	**25 12 28 45.6–.38**	**34.75S–.07**	**15.14W–.08**	**10**	**4.8s,4.7b**	**70**	**3-152**
ISCJB	V	25 12 28 44.1–.32	34.75S–.05	15.11W–.08	10	4.7b,4.6s		¶16544934
IDC	V	25 12 28 44.2–.62	34.67S	15.16W	0	4.5s,4.5		
BJI	V	25 12 28 45.7	34.70S	15.10W	10	5.5b,5.3s		
GCMT	V	25 12 28 45.7–.10	34.68S	14.96W	12	5.2W,5.3s		
NEIC	V	25 12 28 45.7–.24	34.73S	15.09W	10	5.0b,5.3s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.8km az=151.8.
IDC Error ellipse: s-maj=24.9km s-min=16.9km az=151.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c92; s113,c179; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.01 $M_{\theta\theta}$-0.01±.01; $M_{\phi\phi}$0.72±.01; $M_{r\theta}$0.21±.04; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$0.04±.03; Best double couple: NP1:ϕ_s207.00000°,δ50.00000°,λ-70.00000°. NP2:ϕ_s358.00000°,δ44.00000°,λ-112.00000°. Principal axes: T 0.7630,Plg3.0000°,Azm283.0000°; N 0.0050,Plg15.0000°,Azm14.0000° ; P -0.7680,Plg75.0000°,Azm181.0000° $M_0$0.76500×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.6km az=72.0.

(174) Tonga Islands region

ISC	**V**	**26 02 10 30.6–.61**	**17.83S–.05**	**172.06W–.05**	**31–3**	**5.2b,4.7s**	**718**	**9-175**
IDC	V	26 02 10 26.2–.39	17.78S	172.06W	0	6.2L,4.9		¶16545955
ISCJB	V	26 02 10 29.8–.14	17.74S–.04	172.11W–.03	33	5.1b,4.7s		
GCMT	V	26 02 10 30.7–.10	17.83S	171.78W	12	5.4W,4.7s		
NEIC	V	26 02 10 30.7–3.0	17.68S	172.22W	28–20	5.2b,4.7s		
BJI	V	26 02 10 31.3	17.06S	171.89W	29	5.6b,5.1b		
MOS	V	26 02 10 32.2–1.8	17.54S	172.22W	41	5.2b,4.5s		

ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.3km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=151.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c140; s116,c211; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$-0.74±.03; $M_{\phi\phi}$1.82±.02; $M_{r\theta}$-0.11±.07; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$0.50±.05; Best double couple: NP1:ϕ_s167.00000°,δ55.00000°,λ-100.00000°. NP2:ϕ_s5.00000°,δ36.00000°,λ-75.00000°. Principal axes: T 1.9300,Plg10.0000°,Azm264.0000°; N -0.7590,Plg9.0000°,Azm173.0000° ; P -1.1740,Plg77.0000°,Azm42.0000° $M_0$1.55200×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=145.0.
MOS Error ellipse: s-maj=9.0km s-min=7.6km az=56.5.

(286) Flores region

ISC	**V**	**26 08 57 33.1–.44**	**8.35S–.03**	**121.72E–.03**	**23–2**	**5.3b,4.5s**	**501**	**1-171**
BJI	V	26 08 57 30.3	8.20S	121.70E	15	5.5b,5.2b		¶16545962
ISCJB	V	26 08 57 33.9–.37	8.33S–.02	121.80E–.02	44–3	5.2b,4.5s		
MOS	V	26 08 57 33.6–1.2	8.19S	121.57E	33	5.4b,4.1s		
GCMT	V	26 08 57 34.3–.10	8.38S	121.70E	12	5.3W,4.1s		
NEIC	V	26 08 57 34.3–1.3	8.30S	121.67E	30–9	5.3b,4.1s		
KLM	V	26 08 57 35.6	8.42S	121.94E	51	6.2s,5.4b		
DJA	V	26 08 57 35.2–.30	8S–2.0	122E–1.0	19–3	5.6b,5.4		
IDC	V	26 08 57 36.8–2.8	8.25S	121.69E	52–24	5.0,4.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=139.3.
MOS Error ellipse: s-maj=12.4km s-min=6.6km az=105.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c149; s121,c199; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.05±.01 $M_{\theta\theta}$-0.15±.01; $M_{\phi\phi}$-0.89±.01; $M_{r\theta}$-0.26±.03; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$0.01±.03; Best double couple: NP1:ϕ_s206.00000°,δ48.00000°,λ106.00000°. NP2:ϕ_s3.00000°,δ45.00000°,λ73.00000°. Principal axes: T 1.1070,Plg78.0000°,Azm188.0000°; N -0.1560,Plg12.0000°,Azm15.0000° ; P -0.9530,Plg2.0000°,Azm285.0000° $M_0$1.03000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=56.0. Felt [IV] at Ende and [III] at Maumere and Ruteng.
IDC Error ellipse: s-maj=16.0km s-min=10.3km az=57.0.

(207) Eastern New Guinea region

ISC	**V**	**27 05 05 49.3–.35**	**6.64S–.05**	**148.00E–.06**	**51**	**4.7b,4.3s**	**130**	**3-153**
IDC	V	27 05 05 41.7–.61	6.53S	147.99E	0	4.6,4.5		¶16549381
ISCJB	V	27 05 05 47.3–.28	6.64S–.03	147.94E–.05	51	4.7b,4.3s		
NEIC	V	27 05 05 49.8–.66	6.63S	147.91E	58–6	4.7b,4.3s		
DJA	V	27 05 05 55.2–1.2	7S–8.0	148E–11	80–8	5.6b,5.1		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(706) Northern Sumatera

ISC	**V**	**27 07 11 52.7–.57**	**0.36N–.06**	**97.71E–.08**	**29**	**4.5b,3.6s**	**79**	**1-145**
IDC	V	27 07 11 47.9–.81	0.25N	97.66E	0	4.4,4.4b		¶16593314
ISCJB	V	27 07 11 50.2–.43	0.24N–.04	97.65E–.05	29	4.5b,3.6s		
DJA	V	27 07 11 52.3–.50	0N–4.0	98E–5.0	10	5.6b,5.2		
NEIC	V	27 07 11 53.1–1.1	0.28N	97.69E	35–8	4.6b,5.2		

ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=14.5km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.4km az=143.8.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=4.9km az=57.0.

(706) Northern Sumatera

ISC	**V**	**27 08 13 05.8–.48**	**0.16N–.05**	**97.57E–.06**	**29**	**4.7b,3.9s**	**116**	**1-145**
IDC	V	27 08 13 02.0–.78	0.28N	97.63E	0	4.5,4.4		¶16549423
ISCJB	V	27 08 13 04.4–.35	0.27N–.04	97.63E–.04	29	4.6b,3.9s		
DJA	V	27 08 13 05.9–.90	0N–5.0	98E–7.0	34–10	4.9b,4.9		
NEIC	V	27 08 13 06.2–1.5	0.30N	97.68E	27–9	4.7b,4.9		
KLM	V	27 08 13 10.3	0.35N	97.83E	59	5.5s,4.5b		

ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=15.3km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.1km az=138.5.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=4.5km az=51.0.

(273) Southwest of Sumatera

ISC	**V**	**28 17 07 41.9–.29**	**5.73S–.03**	**103.46E–.03**	**43–2**	**6.0b,5.4s**	**1991**	**1-178**
BJI	V	28 17 07 33.8	6.30S	103.47E	27	5.8b,5.7b		¶16551362
NEIC	V	28 17 07 36.0–.00	5.86S	103.39E	15	5.8b,5.7b		
MOS	V	28 17 07 40.1–.93	5.62S	103.62E	33	6.2b,5.2s		
GCMT	V	28 17 07 40.2–.10	5.98S	103.31E	26	5.7W,5.2s		
ISCJB	V	28 17 07 41.8–.32	5.70S–.02	103.53E–.02	48–2	6.0b,5.4s		
NEIC	V	28 17 07 41.1–.09	5.70S	103.49E	32	6.1b,5.7W		
DJA	V	28 17 07 43.6–.30	6S–2.0	103E–2.0	42–3	6.3b,6.2		
KLM	V	28 17 07 43.3	5.86S	103.10E	88	6.4s,5.7b		
IDC	V	28 17 07 43.9–.85	5.65S	103.54E	52–6	5.7,5.5		

ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-0.90 $M_{\phi\phi}$1.00 $M_{r\theta}$3.80 $M_{\theta\phi}$1.20 $M_{\phi r}$-3.00 Best double couple: NP1:ϕ_s131.00000°,δ86.00000°,λ99.00000°. NP2:ϕ_s240.00000°,δ9.00000°,λ19.00000°. Principal axes: T 4.2000,Plg47.0000°,Azm51.0000°; N 1.5000,Plg9.0000°,Azm310.0000° ; P -5.7000,Plg41.0000°,Azm212.0000° $M_0$5.00000×10^{17}
MOS Error ellipse: s-maj=6.9km s-min=4.0km az=115.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s106,c202; s102,c224;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.41±.04 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.22±.04; $M_{r\theta}$2.96±.07; $M_{\theta\phi}$2.14±.03; $M_{\phi r}$-2.20±.08; Best double couple: NP1:ϕ_s123.00000°,δ80.00000°,λ84.00000°. NP2:ϕ_s335.00000°,δ12.00000°,λ121.00000°. Principal axes: T 2.9730,Plg55.0000°,Azm25.0000°; N 1.9590,Plg6.0000°,Azm124.0000° ; P -4.9320,Plg35.0000°,Azm218.0000° $M_0$3.95300×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.1km az=39.9.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=219.0. Felt [IV] at Krui and Liwa and [II] at Kapahiang and Kotabumi. Felt at Jakarta, Java. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}0.89 $M_{\theta\theta}$0.45 $M_{\phi\phi}$-1.34 $M_{r\theta}$1.09 $M_{\theta\phi}$0.52 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s141.00000°,δ75.00000°,λ69.00000°. NP2:ϕ_s17.00000°,δ25.00000°,λ143.00000°. Principal axes: T 1.9600,Plg55.0000°,Azm25.0000°; N 0.3100,Plg20.0000°,Azm147.0000° ; P -2.2700,Plg27.0000°,Azm248.0000° $M_0$2.10000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s325.00000°,δ2.00000°,λ90.00000°. NP2: ϕ_s145.00000°,δ88.00000°,λ90.00000°. Principal axes: T Plg47.0000°,Azm55.0000° ; N Plg0.0000°,Azm0.0000°; P Plg43.0000°,Azm235.0000°
IDC Error ellipse: s-maj=9.4km s-min=6.1km az=51.0.

(277) Jawa

ISC	**V**	**28 20 28 54.5–.47**	**8.88S–.04**	**108.65E–.03**	**33–1**	**5.0b,4.3s**	**502**	**1-169**
BJI	V	28 20 28 52.8	8.80S	108.70E	27	5.2b,4.9b		¶16551393
ISCJB	V	28 20 28 52.9–.18	8.89S–.03	108.60E–.03	33	4.9b,4.2s		
MOS	V	28 20 28 53.4–.91	8.70S	108.78E	36	5.3b,4.2s		
DJA	V	28 20 28 54.8–.20	9S–3.0	109E–2.0	10	5.5b,5.3		
NEIC	V	28 20 28 55.8–.74	8.76S	108.75E	45–6	5.1b,5.3		
IDC	V	28 20 29 03.9–1.1	8.69S	108.90E	112–9	4.7,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.0km az=42.8.
MOS Error ellipse: s-maj=10.5km s-min=5.9km az=112.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.2km az=222.0.
IDC Error ellipse: s-maj=11.8km s-min=8.3km az=47.0.

(254) Panay

ISC	**V**	**29 09 15 24.7–.68**	**10.65N–.03**	**122.18E–.03**	**47–6**	**4.5b,3.8s**	**188**	**0-174**
IDC	V	29 09 15 16.9–.42	10.62N	122.27E	0	4.9L,4.4		¶16577350
MAN	V	29 09 15 21	10.60N	122.10E	21	5.6b,5.0s		
ISCJB	V	29 09 15 23.0–.30	10.72N–.02	122.28E–.03	49–3	4.5b,3.9s		
NEIC	V	29 09 15 23.1–.78	10.66N	122.39E	44–7	4.7b,3.9s		
KLM	V	29 09 15 27.7	10.41N	122.30E	48	5.9s,4.6b		
DJA	V	29 09 15 34.7–1.3	10N–6.0	122E–6.0	62–15	5.5b,4.9		

ISC Event type fe.
MAN Event type fe. INTENSITY IV - SIBALOM ANTIQUE; INTENSITY III - ILOILO CITY; SAN JOSE PATNOGON AND HAMTIC ANTIQUE.
ISCJB Event type fe.
NEIC Event type fe. Felt [V PIVS] at Tubungan, [IV PIVS] at Sibalom and [III PIVS] at Hamtic, Iloilo, Patnongon and San Jose. Also felt at Tigbauan.

(273) Southwest of Sumatera

ISC	**V**	**29 18 24 02.8–.38**	**7.72S–.03**	**101.78E–.03**	**21–4**	**5.4b,5.4s**	**803**	**3-178**
BJI	V	29 18 23 59.0	7.80S	101.70E	10	5.8s,5.6		¶16551537
ISCJB	V	29 18 24 00.5–.61	7.69S–.02	101.76E–.02	13–3	5.3s,5.3b		
IDC	V	29 18 24 00.0–.34	7.68S	101.76E	0	5.1,5.1		
NEIC	V	29 18 24 01.2–.26	7.72S	101.76E	13	6.4,5.9W		
NEIC	V	29 18 24 01.0–.00	7.75S	101.75E	15	6.4,5.9W		
DJA	V	29 18 24 01.8–.30	8S–3.0	102E–3.0	10	6.6,6.0b		
GCMT	V	29 18 24 01.2–.10	7.77S	101.71E	28–0	5.9W,6.0b		
MOS	V	29 18 24 04.0–1.4	7.46S	101.87E	33	5.4b,5.2s		
KLM	V	29 18 24 06.3	7.60S	101.64E	42	6.5s,6.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=15.0.
IDC Error ellipse: s-maj=11.4km s-min=9.9km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.1km az=223.0. Felt [II] at Lampung. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}0.55 $M_{\theta\theta}$5.26 $M_{\phi\phi}$-5.82 $M_{r\theta}$0.88 $M_{\theta\phi}$2.67 $M_{\phi r}$0.71 Best double couple: NP1:ϕ_s123.00000°,δ80.00000°,λ5.00000°. NP2:ϕ_s32.00000°,δ86.00000°,λ170.00000°. Principal axes: T 6.0600,Plg11.0000°,Azm347.0000°; N 0.4000,Plg79.0000°,Azm188.0000° ; P -6.4600,Plg4.0000°,Azm77.0000° $M_0$6.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s228.00000°,δ62.00000°,λ139.00000°. NP2: ϕ_s340.00000°,δ55.00000°,λ35.00000°. Principal axes: T Plg48.0000°,Azm191.0000° ; N Plg0.0000°,Azm0.0000°; P Plg4.0000°,Azm286.0000°
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}0.40 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-0.80 $M_{r\theta}$-2.70 $M_{\theta\phi}$-6.60 $M_{\phi r}$4.10 Best double couple: NP1:ϕ_s359.00000°,δ78.00000°,λ29.00000°. NP2:ϕ_s263.00000°,δ60.00000°,λ167.00000°. Principal axes: T 9.1000,Plg28.0000°,Azm224.0000°; N -1.9000,Plg58.0000°,Azm18.0000° ; P -7.1000,Plg11.0000°,Azm128.0000° $M_0$8.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c249; s130,c413;Duration: 2s1 Moment tensor: Scale 10^{17} Nm; M_{rr}0.17±.06 $M_{\theta\theta}$0.37±.05; $M_{\phi\phi}$-0.53±.06; $M_{r\theta}$-0.25±.11; $M_{\theta\phi}$-7.60±.05; $M_{\phi r}$0.68±.12; Best double couple: NP1:ϕ_s358.00000°,δ88.00000°,λ5.00000°. NP2:ϕ_s268.00000°,δ85.00000°,λ178.00000°. Principal axes: T 7.5860,Plg5.0000°,Azm223.0000° ; N 0.1240,Plg84.0000°,Azm18.0000°; P -7.7100,Plg2.0000°,Azm133.0000°

$M_0$7.64800×10^{17}
MOS Error ellipse: s-maj=8.7km s-min=4.6km az=109.2.

(173) Tonga Islands

ISC	**V**	**30 00 06 27.8–.28**	**15.19S–.06**	**173.41W–.07**	**30**	**5.2b,4.7s**	**661**	**2-175**
IDC	V	30 00 06 23.1–.43	15.24S	173.44W	0	4.9,4.8		**¶16551547**
NEIC	V	30 00 06 24.7–.14	15.18S	173.56W	10	5.3b,4.8		
GCMT	V	30 00 06 24.7–.30	15.14S	173.35W	12	5.3W,4.8		
MOS	V	30 00 06 26.5–1.0	15.16S	173.54W	32	5.3b,4.7s		
ISCJB	V	30 00 06 26.1–.12	15.26S–.04	173.56W–.04	30	5.1b,4.6s		
BJI	V	30 00 06 27.1	15.27S	173.57W	30	5.5b,5.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.3km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=3.5km az=125.0. Felt at Afono, American Samoa and at Apia, Samoa.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c13; s76,c95; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.00±.01 $M_{\theta\theta}$0.15±.01; $M_{\phi\phi}$-0.14±.01; $M_{r\theta}$-0.92±.04; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.53±.03; Best double couple: NP1:ϕ_s121.00000°,δ89.00000° ,λ-83.00000°. NP2:ϕ_s216.00000°,δ8.00000°,λ-174.00000°. Principal axes: T 1.0960,Plg44.0000°,Azm203.0000°; N -0.0510,Plg7.0000°,Azm300.0000° ; P -1.0450,Plg45.0000°,Azm38.0000° $M_0$1.07000×10^{17}
MOS Error ellipse: s-maj=13.7km s-min=7.9km az=61.9.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.2km az=135.4.

(227) Eastern Honshu

ISC	**V**	**31 12 28 35.5–.36**	**39.36N–.03**	**142.03E–.03**	**46–2**	**5.3b,5.0s**	**1213**	**0-159**
NIED	V	31 12 28 00	39.40N	142.10E	50	5.4W,5.0s		**¶16552288**
BJI	V	31 12 28 31.0	39.22N	142.39E	45	5.3b,5.0b		
MOS	V	31 12 28 33.6–.88	39.43N	141.79E	36	5.5b,5.0s		
JMA	V	31 12 28 35.7	39.34N	142.06E	48–1	5.3,5.0s		
ISCJB	V	31 12 28 35.8–.23	39.39N–.02	141.91E–.02	58–1	5.2b,4.8s		
IDC	V	31 12 28 36.7–1.6	39.33N	141.98E	59–14	4.7s,4.7		
NEIC	V	31 12 28 38.3–.43	39.41N	141.79E	65–3	5.3b,4.7		
GCMT	V	31 12 28 38.3–.10	39.40N	142.09E	49–0	5.4W,4.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ101.00000°. $M_0$1.31000×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=104.7.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=154.5.
IDC Error ellipse: s-maj=12.7km s-min=9.4km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=148.0. Felt at Ichinoseki and Misawa. Recorded [4 JMA] in Iwate.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c174; s121,c228; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.03 $M_{\theta\theta}$-0.17±.02; $M_{\phi\phi}$-1.11±.02; $M_{r\theta}$0.55±.02; $M_{\theta\phi}$0.25±.01; $M_{\phi r}$0.99±.02; Best double couple: NP1:ϕ_s24.00000°,δ66.00000° ,λ97.00000°. NP2:ϕ_s187.00000°,δ25.00000°,λ74.00000°. Principal axes: T 1.7370,Plg68.0000°,Azm307.0000°; N -0.1380,Plg7.0000°,Azm201.0000° ; P -1.5960,Plg21.0000°,Azm109.0000° $M_0$1.66700×10^{17}

(274) Southern Sumatera

ISC	**VI**	**01 06 13 57.0–.38**	**4.97S–.05**	**102.76E–.06**	**59**	**4.5b,3.6s**	**320**	**1-152**
ISCJB	VI	01 06 13 55.1–.30	5.02S–.04	102.76E–.04	59	4.5b,3.5s		**¶16577366**
DJA	VI	01 06 13 55.3–.70	5S–3.0	103E–3.0	15–7	5.6b,5.1		
IDC	VI	01 06 13 58.5–2.2	4.82S	102.97E	68–19	4.4,4.2		
NEIC	VI	01 06 13 58.2–.82	4.89S	102.81E	69–6	4.6b,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=40.9.
IDC Error ellipse: s-maj=16.2km s-min=9.5km az=53.0.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=5.4km az=223.0. Felt [II] at Kapahiang.

(135) Near coast of central Chile

ISC	**VI**	**01 12 55 21.0–.18**	**37.56S–.03**	**73.83W–.04**	**10**	**6.3s,5.6b**	**1338**	**1-178**
GUC	VI	01 12 55 07.0–.64	37.58S	75.22W	10–8	6.1L,5.6b		**¶16722583**
IDC	VI	01 12 55 18.9–.34	37.60S	73.70W	0	6.3,6.3s		
ISCJB	VI	01 12 55 18.4–.13	37.51S–.02	73.91W–.04	10	6.3s,5.5b		
BJI	VI	01 12 55 21.9	37.45S	73.45W	20	6.6s,6.5		
NEIC	VI	01 12 55 21.0–.00	37.54S	73.16W	15	6.6s,6.5		
NEIC	VI	01 12 55 22.4–.16	37.58S	73.69W	21	6.3W,6.3W		
GCMT	VI	01 12 55 22.4–.10	37.74S	74.41W	12	6.3W,6.3W		
MOS	VI	01 12 55 23.5–1.2	37.50S	73.67W	33	6.3s,5.7b		

ISC Event type fe.
GUC Error ellipse: s-maj=2.3km s-min=10.5km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=10.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=162.9.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{18}Nm; M_{rr}0.70 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-0.50 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.60 $M_{\phi r}$-2.70 Best double couple: NP1:ϕ_s185.00000° ,δ83.00000°,λ78.00000°. NP2:ϕ_s65.00000°,δ13.00000°,λ150.00000°. Principal axes: T 3.0000,Plg50.0000°,Azm81.0000°; N -0.2000,Plg11.0000°,Azm186.0000° ; P -2.8000,Plg37.0000°,Azm285.0000° $M_0$3.00000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.6km az=77.0. Felt [IV] at Arauco, Canete, Carahue, Concepcion, Contulmo, Curarrehue, Lebu, Los Alamos, Lota, Puerto Saavedra and Tirua. Felt widely in Araucania and Bio-Bio and in parts of Los Rios. Felt at Neuquen, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$4.90000×10^{18} Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}1.78 $M_{\theta\theta}$0.34 $M_{\phi\phi}$-2.12 $M_{r\theta}$-1.13 $M_{\theta\phi}$1.60 $M_{\phi r}$-3.04 Best double couple: NP1:ϕ_s188.00000°,δ76.00000°,λ119.00000°. NP2: ϕ_s303.00000°,δ32.00000°,λ28.00000°. Principal axes: T 4.2500,Plg51.0000°,Azm131.0000° ; N -0.2800,Plg28.0000°,Azm1.0000°; P -3.9700,Plg25.0000°,Azm256.0000° $M_0$4.10000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s5.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s185.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm95.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000° ,Azm275.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c285; s140,c554;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}2.25±.01 $M_{\theta\theta}$0.02±.01; $M_{\phi\phi}$-2.27±.01; $M_{r\theta}$-0.19±.03; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$-3.40±.03; Best double couple: NP1:ϕ_s183.00000°,δ73.00000°,λ91.00000°. NP2:ϕ_s1.00000°,δ17.00000° ,λ88.00000°. Principal axes: T 4.0770,Plg62.0000°,Azm94.0000°; N 0.0180,Plg1.0000° ,Azm3.0000°; P -4.0990,Plg28.0000°,Azm272.0000° $M_0$4.08800×10^{18}
MOS Error ellipse: s-maj=13.5km s-min=7.2km az=96.9.

(177) Kermadec Islands region

ISC	**VI**	**01 19 21 45.8–.30**	**31.88S–.04**	**177.83W–.06**	**24**	**5.1b,4.5s**	**447**	**3-171**
NEIC	VI	01 19 21 42.3–4.0	31.96S	177.94W	2–24	5.1b,4.5s		**¶16722585**
IDC	VI	01 19 21 42.3–.42	31.69S	177.84W	0	4.9,4.8		
GCMT	VI	01 19 21 42.3–.40	31.81S	177.52W	18–1	5.2W,4.8		
ISCJB	VI	01 19 21 45.6–.14	32.10S–.03	177.96W–.04	33	5.1b,4.4s		
BJI	VI	01 19 21 45.7	31.70S	177.90W	32	5.5b,5.1b		
MOS	VI	01 19 21 46.4–1.4	31.65S	177.92W	33	5.3b,5.1b		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.5km az=174.0.
IDC Error ellipse: s-maj=16.1km s-min=14.5km az=124.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c52; s70,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.25±.30 $M_{\theta\theta}$-0.43±.20; $M_{\phi\phi}$-3.82±.20; $M_{r\theta}$2.31±.58; $M_{\theta\phi}$-1.67±.13; $M_{\phi r}$5.23±.61; Best double couple: NP1:ϕ_s24.00000°,δ71.00000° ,λ91.00000°. NP2:ϕ_s201.00000°,δ19.00000°,λ87.00000°. Principal axes: T 7.0750,Plg64.0000°,Azm295.0000°; N 0.2550,Plg1.0000°,Azm203.0000° ; P -7.3260,Plg26.0000°,Azm113.0000° $M_0$7.20100×10^{16}
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.4km az=33.3.
MOS Error ellipse: s-maj=11.6km s-min=8.6km az=80.3.

(408) Ascension Island region

ISC	**VI**	**02 12 30 28.7–.34**	**11.51S–.05**	**13.34W–.06**	**20**	**4.8b,4.6s**	**175**	**3-135**
IDC	VI	02 12 30 24.9–.53	11.56S	13.16W	0	4.5,4.5		**¶16554427**
MOS	VI	02 12 30 25.5–1.4	11.58S	13.32W	10	5.0b,4.5		
BJI	VI	02 12 30 26.2	11.50S	13.50W	10	5.7b,5.5b		
NEIC	VI	02 12 30 27.1–.32	11.70S	13.21W	10	5.2b,5.5b		
ISCJB	VI	02 12 30 27.4–.26	11.44S–.04	13.42W–.04	20	4.7b,4.6s		
GCMT	VI	02 12 30 27.1–.20	11.57S	13.22W	12	5.2W,4.6s		

ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=13.1km az=159.0.
MOS Error ellipse: s-maj=17.3km s-min=7.5km az=61.4.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.9km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.1km az=169.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c72; s103,c182; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.65±.14 $M_{\theta\theta}$-3.02±.14; $M_{\phi\phi}$2.37±.14; $M_{r\theta}$-1.79±.38; $M_{\theta\phi}$6.33±.11; $M_{\phi r}$-2.06±.38; Best double couple: NP1:ϕ_s260.00000°,δ77.00000° ,λ17.00000°. NP2:ϕ_s166.00000°,δ73.00000°,λ167.00000°. Principal axes: T 7.6080,Plg21.0000°,Azm124.0000°; N -0.3850,Plg69.0000°,Azm296.0000° ; P -7.2220,Plg3.0000°,Azm33.0000° $M_0$7.41500×10^{16}

(229) Off east coast of Honshu

ISC	**VI**	**03 00 05 01.7–.34**	**37.30N–.02**	**143.97E–.02**	**20–1**	**6.4b,6.0s**	**2625**	**2-163**
IDC	VI	03 00 04 58.1–.30	37.20N	144.06E	0	5.9,5.9		**¶602897544**
ISCJB	VI	03 00 04 59.5–.43	37.31N–.01	143.93E–.01	14–2	6.3b,5.9s		
GCMT	VI	03 00 05 00.8–.10	37.35N	143.96E	20–0	6.1W,5.9s		
BJI	VI	03 00 05 00.8	37.35N	144.00E	30	6.2s,6.1b		
NEIC	VI	03 00 05 00.8–.07	37.29N	143.91E	14	6.4b,6.2W		
NIED	VI	03 00 05 00	37.30N	143.70E	11	5.9W,6.2W		
MOS	VI	03 00 05 01.1–1.2	37.36N	143.98E	28	6.6b,6.0s		
JMA	VI	03 00 05 02.7–.30	37.30N	143.83E	57	6.1,6.0s		
NEIC	VI	03 00 05 03.0–.00	37.29N	143.91E	25	6.1,6.0s		
NEIC	VI	03 00 05 10.5–.00	37.45N	144.60E	23	6.1,6.0s		

ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.4km az=168.2.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c276; s137,c504;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.41±.01 $M_{\theta\theta}$0.85±.01; $M_{\phi\phi}$0.55±.01; $M_{r\theta}$-0.37±.02; $M_{\theta\phi}$0.99±.01; $M_{\phi r}$0.41±.02; Best double couple: NP1:ϕ_s70.00000°,δ49.00000°,λ-60.00000°. NP2:ϕ_s208.00000° ,δ49.00000°,λ-120.00000°. Principal axes: T 1.7100,Plg0.0000°,Azm139.0000° ; N -0.0720,Plg22.0000°,Azm229.0000°; P -1.6380,Plg68.0000°,Azm48.0000° $M_0$1.67400×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=154.0. Felt [III] at Tokyo. Also felt at Ichinoseki, Musashino and Sakado. Recorded [3 JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s39 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.24 $M_{\theta\theta}$0.36 $M_{\phi\phi}$0.88 $M_{r\theta}$0.45 $M_{\theta\phi}$0.70 $M_{\phi r}$0.01 Best double couple: NP1:ϕ_s19.00000°,δ42.00000° ,λ-115.00000°. NP2:ϕ_s230.00000°,δ53.00000°,λ-70.00000°. Principal axes: T 1.3900,Plg6.0000°,Azm306.0000°; N -0.0200,Plg16.0000°,Azm38.0000° ; P -1.3700,Plg73.0000°,Azm197.0000° $M_0$1.40000×10^{18}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ39.00000°,λ-136.00000°. NP2:ϕ_s72.00000°,δ64.00000°,λ-60.00000°. $M_0$8.76000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.6km az=100.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06 $M_{\theta\theta}$0.57 $M_{\phi\phi}$0.49 $M_{r\theta}$-0.71 $M_{\theta\phi}$0.55 $M_{\phi r}$-0.68 Best double couple: NP1:ϕ_s47.00000° ,δ66.00000°,λ-90.00000°. NP2:ϕ_s228.00000°,δ24.00000°,λ-88.00000°. Principal axes: T 1.4700,Plg21.0000°,Azm137.0000°; N -0.0200,Plg0.0000°,Azm46.0000° ; P -1.4400,Plg68.0000°,Azm315.0000° $M_0$1.50000×10^{18}
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.57 $M_{\theta\theta}$0.94 $M_{\phi\phi}$0.63 $M_{r\theta}$-1.42 $M_{\theta\phi}$1.04 $M_{\phi r}$-1.72 Best double couple: NP1:ϕ_s240.00000° ,δ19.00000°,λ-72.00000°. NP2:ϕ_s41.00000°,δ71.00000°,λ-96.00000°. Principal axes: T 2.9300,Plg26.0000°,Azm136.0000°; N -0.2300,Plg6.0000°,Azm43.0000° ; P -2.7000,Plg63.0000°,Azm302.0000° $M_0$2.80000×10^{18}

(704) Nicobar Islands region

ISC	**VI**	**03 07 27 12.7–.28**	**9.69N–.02**	**92.58E–.03**	**54–2**	**5.9b,4.9s**	**1906**	**2-171**
BJI	VI	03 07 27 08.2	9.42N	92.51E	43	5.3b,5.2b		**¶602918549**
ISCJB	VI	03 07 27 09.9–.31	9.63N–.02	92.50E–.01	45–2	5.9b,4.9s		
MOS	VI	03 07 27 09.5–.94	9.63N	92.51E	44	6.1b,5.0s		
KLM	VI	03 07 27 10.3	9.50N	92.21E	49	6.5s,5.6b		
NEIC	VI	03 07 27 10.0–.00	9.66N	92.53E	35	6.5s,5.6b		
GCMT	VI	03 07 27 11.8–.10	9.69N	92.63E	48–1	5.5W,5.6b		
NEIC	VI	03 07 27 11.8–.09	9.64N	92.46E	45	5.9b,5.9		
DJA	VI	03 07 27 12.5–.30	10N–3.0	92E–3.0	44–4	6.0b,5.8b		
IDC	VI	03 07 27 13.2–.57	9.68N	92.61E	56–4	5.6,5.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=30.6.
MOS Error ellipse: s-maj=6.1km s-min=3.3km az=121.2.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$1.50 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.40 $M_{\phi r}$-1.60 Best double couple: NP1:ϕ_s342.00000° ,δ72.00000°,λ-98.00000°. NP2:ϕ_s187.00000°,δ19.00000°,λ-66.00000°. Principal axes: T 2.3000,Plg26.0000°,Azm79.0000°; N -0.7000,Plg7.0000°,Azm345.0000° ; P -1.7000,Plg61.0000°,Azm240.0000° $M_0$2.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s101,c169; s107,c219;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.82±.03 $M_{\theta\theta}$-0.65±.02; $M_{\phi\phi}$1.47±.03; $M_{r\theta}$-0.48±.02; $M_{\theta\phi}$-0.04±.02; $M_{\phi r}$-1.58±.04; Best double couple: NP1: ϕ_s18.00000°,δ74.00000°,λ-72.00000°. NP2:ϕ_s148.00000°,δ23.00000°,λ-138.00000°. Principal axes: T 2.2870,Plg27.0000°,Azm94.0000°; N -0.4870,Plg17.0000°,Azm193.0000° ; P -1.8010,Plg57.0000°,Azm311.0000° $M_0$2.04400×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.5km az=215.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.02 $M_{\theta\theta}$-0.44 $M_{\phi\phi}$1.46 $M_{r\theta}$-0.38 $M_{\theta\phi}$-0.20 $M_{\phi r}$-1.92 Best double couple: NP1:ϕ_s10.00000°,δ75.00000°,λ-77.00000°. NP2: ϕ_s150.00000°,δ20.00000°,λ-129.00000°. Principal axes: T 2.5000,Plg29.0000°,Azm90.0000° ; N -0.3300,Plg12.0000°,Azm187.0000°; P -2.1700,Plg58.0000°,Azm298.0000° $M_0$2.40000×10^{17}
IDC Error ellipse: s-maj=8.9km s-min=7.7km az=52.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**03 16 00 15.3–.27**	**37.04N–.02**	**141.08E–.03**	**22–2**	**5.7b,5.0s**	**1640**	**0-165**
NIED	VI	03 16 00 00	37.00N	141.20E	11	5.4W,5.0s		**¶602918555**
BJI	VI	03 16 00 10.3	36.89N	141.40E	25	5.5s,5.4b		
GCMT	VI	03 16 00 13.9–.10	37.03N	141.18E	18–0	5.4W,5.4b		
JMA	VI	03 16 00 14.1–.10	36.99N	141.21E	30–1	5.5,5.4b		
MOS	VI	03 16 00 14.0–.94	37.11N	141.07E	24	5.8b,5.4s		
NEIC	VI	03 16 00 15.0–.09	37.07N	140.91E	17	5.7b,5.5W		
ISCJB	VI	03 16 00 15.5–.37	37.03N–.01	141.06E–.02	31–2	5.6b,5.0s		
NEIC	VI	03 16 00 16.0–.00	36.87N	141.15E	24	5.6b,5.0s		
IDC	VI	03 16 00 17.2–2.0	37.01N	141.01E	33–14	5.4,5.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ34.00000°,λ-73.00000°. NP2:ϕ_s47.00000°,δ57.00000°,λ-101.00000°. $M_0$1.31000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c184; s120,c271;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.46±.03 $M_{\theta\theta}$1.03±.02; $M_{\phi\phi}$0.43±.02; $M_{r\theta}$-0.53±.04; $M_{\theta\phi}$0.85±.01; $M_{\phi r}$0.08±.04; Best double couple: NP1:ϕ_s69.00000° ,δ54.00000°,λ-72.00000°. NP2:ϕ_s220.00000°,δ40.00000°,λ-113.00000°. Principal axes: T 1.6840,Plg7.0000°,Azm146.0000°; N -0.0780,Plg14.0000°,Azm238.0000° ; P -1.6030,Plg74.0000°,Azm30.0000° $M_0$1.64400×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=99.7.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=143.0. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [5L JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.29 $M_{\theta\theta}$1.00 $M_{\phi\phi}$0.29 $M_{r\theta}$-0.64 $M_{\theta\phi}$1.06 $M_{\phi r}$-0.54 Best double couple: NP1:ϕ_s51.00000°,δ59.00000°,λ-94.00000°. NP2: ϕ_s239.00000°,δ31.00000°,λ-83.00000°. Principal axes: T 1.9700,Plg14.0000°,Azm144.0000° ; N -0.4700,Plg3.0000°,Azm53.0000°; P -1.5100,Plg75.0000°,Azm310.0000° $M_0$1.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=147.5.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20 $M_{\theta\theta}$0.60 $M_{\phi\phi}$0.60 $M_{r\theta}$-1.00 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.30 Best double couple: NP1:ϕ_s63.00000° ,δ66.00000°,λ-76.00000°. NP2:ϕ_s212.00000°,δ27.00000°,λ-118.00000°. Principal axes: T 1.4000,Plg20.0000°,Azm143.0000°; N 0.2000,Plg12.0000°,Azm238.0000° ; P -1.7000,Plg65.0000°,Azm357.0000° $M_0$2.00000×10^{17}
IDC Error ellipse: s-maj=11.9km s-min=8.6km az=96.0.

(274) Southern Sumatera

ISC	**VI**	**04 05 47 54.1–.41**	**3.60S–.05**	**101.46E–.05**	**50**	**4.5b,3.0s**	**108**	**2-150**
ISCJB	VI	04 05 47 52.3–.33	3.67S–.04	101.40E–.05	50	4.6b,3.1s		**¶16640736**
NEIC	VI	04 05 47 55.0–.53	3.57S	101.52E	59–4	4.7b,3.1s		
BJI	VI	04 05 47 54.0	3.60S	101.50E	59	4.9b,4.8b		
IDC	VI	04 05 47 55.9–7.1	3.49S	101.54E	65–63	4.4,4.2		
DJA	VI	04 05 47 55.0–1.5	4S–4.0	102E–4.0	23–19	5.2b,4.8b		
KLM	VI	04 05 47 58.6	3.39S	101.68E	45	5.5s,4.5b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=3.7km az=140.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=3.9km az=54.0.
IDC Error ellipse: s-maj=33.8km s-min=12.8km az=55.0.

(190) New Ireland region

ISC	**VI**	**05 07 02 10.6–.57**	**3.76S–.04**	**152.19E–.05**	**20–2**	**5.3b,4.7s**	**386**	**0-157**
IDC	VI	05 07 02 06.8–.44	3.70S	152.20E	0	5.0,5.0		**¶16557338**
ISCJB	VI	05 07 02 07.0–.16	3.69S–.02	152.13E–.03	10	5.2b,4.7s		
BJI	VI	05 07 02 07.4	3.27S	152.45E	9	5.3b,5.1b		
GCMT	VI	05 07 02 08.7–.10	3.76S	151.96E	12	5.4W,5.1b		
NEIC	VI	05 07 02 08.7–.16	3.69S	152.08E	10	5.4b,5.1b		
MOS	VI	05 07 02 09.9–1.3	3.65S	152.05E	29	5.5b,4.8s		
DJA	VI	05 07 02 11.6–1.5	4S–3.0	152E–5.0	28–11	6.0,5.8b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c131; s124,c221;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$1.40±.02; $M_{\phi\phi}$-1.29±.02; $M_{r\theta}$0.17±.05; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$-0.33±.05; Best double couple: NP1:ϕ_s317.00000°,δ85.00000°,λ-15.00000°. NP2:ϕ_s48.00000°,δ75.00000°,λ-175.00000°. Principal axes: T 1.4280,Plg7.0000°,Azm4.0000° ; N -0.0510,Plg74.0000°,Azm119.0000°; P -1.3780,Plg14.0000°,Azm272.0000° $M_0$1.40300×10^{17}
NEIC Event type fe. Felt at Namatanai. Also felt at Kokopo and Rabaul, New Britain.

(221) Kuril Islands

ISC	**VI**	**05 08 17 03.4–.81**	**46.5N–.10**	**153.04E–.10**	**35**	**3.5b**	**55**	**4-78**
ISCJB	VI	05 08 17 02.6–.63	46.48N–.08	153.0E–.10	35	3.5b		**¶16722611**
JMA	VI	05 08 17 03.0–.60	46.92N	152.87E	30	4.1		
SKHL	VI	05 08 17 06.3–1.2	46.55N	152.90E	83–8	5.5s,4.8b		
MOS	VI	05 08 17 06.4–1.1	46.71N	152.75E	51	4.0b,4.8b		
IDC	VI	05 08 17 08.5–3.0	46.86N	152.65E	77–26	3.5,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=4.3km az=139.8.
JMA Error ellipse: s-maj=8.9km s-min=8.4km az=-1.0.
MOS Error ellipse: s-maj=16.4km s-min=9.3km az=58.7.
IDC Error ellipse: s-maj=25.6km s-min=17.1km az=131.0.

(135) Near coast of central Chile

ISC	**VI**	**05 10 25 16.7–.23**	**35.10S–.03**	**71.94W–.04**	**44–1**	**5.5b,4.7s**	**1381**	**1-179**
NEIC	VI	05 10 25 15.0	35.00S	72.19W	32	5.6L,5.5b		**¶16557343**
GUC	VI	05 10 25 15.6–.32	35.00S	72.19W	32–2	5.6L,5.5b		
GCMT	VI	05 10 25 15.0–.10	35.01S	72.11W	50–0	5.3W,5.5b		
MOS	VI	05 10 25 15.0–.95	34.93S	71.81W	33	5.8b,4.9s		
BJI	VI	05 10 25 15.5	34.31S	71.66W	44	5.4b,5.2s		
IDC	VI	05 10 25 17.2–.30	35.03S	71.76W	43–2	5.4,5.2		
ISCJB	VI	05 10 25 17.7–.41	35.05S–.02	71.77W–.04	64–3	5.5b,5.2		

ISC Event type fe.
NEIC Event type fe. Felt [VII] at Constitucion; [VI] at Cauquenes, Chanco, Curico, Hualane, Iloca, Linares, Maule and Talca; [V] at Colbun, Longavi, Molina, Parral, Pencahue, Pichilemu, Rio Claro, Romeral, San Clemente, San Fernando, San Javier and Santa Cruz. Felt widely in central Chile from Tiltil and Vina del Mar to Concepcion. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s90,c134; s98,c164;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.02 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$-1.02±.02; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$-0.17±.02; $M_{\phi r}$-0.69±.02; Best double couple: NP1:ϕ_s172.00000°,δ63.00000°,λ74.00000°. NP2:ϕ_s24.00000°,δ31.00000°,λ118.00000°. Principal axes: T 1.2630,Plg68.0000°,Azm52.0000° ; N -0.0180,Plg14.0000°,Azm180.0000°; P -1.2420,Plg17.0000°,Azm274.0000° $M_0$1.25200×10^{17}
ISCJB Event type fe.

(701) West of Macquarie Island

ISC	**VI**	**05 11 51 13.6–.51**	**55.84S–.04**	**147.24E–.04**	**14–2**	**6.4s,5.9b**	**1201**	**7-166**
BJI	VI	05 11 51 10.8	56.00S	146.55E	10	6.4s,6.2		**¶602897565**
IDC	VI	05 11 51 10.5–.36	55.78S	146.80E	0	6.2,6.2s		
ISCJB	VI	05 11 51 11.1–.17	55.89S–.03	146.78E–.05	10	6.4s,5.8b		
GCMT	VI	05 11 51 12.0–.00	56.00S	146.91E	12	6.4W,5.8b		
NEIC	VI	05 11 51 12.0–.00	55.94S	146.59E	15	6.4W,5.8b		
NEIC	VI	05 11 51 12.0–.12	55.84S	146.62E	3	6.4s,6.4W		
MOS	VI	05 11 51 12.4–1.9	55.80S	146.66E	10	6.3s,5.7b		

ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=13.0km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=4.0km az=176.5.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s139,c343; s140,c592;Duration: 4s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.19±.02 $M_{\theta\theta}$2.27±.02; $M_{\phi\phi}$-2.08±.02; $M_{r\theta}$0.37±.06; $M_{\theta\phi}$-5.14±.02; $M_{\phi r}$-0.09±.06; Best double couple: NP1:ϕ_s78.00000°,δ88.00000°,λ177.00000°. NP2:ϕ_s169.00000°,δ87.00000°,λ2.00000°. Principal axes: T 5.6980,Plg4.0000°,Azm33.0000° ; N -0.2110,Plg86.0000°,Azm235.0000°; P -5.4890,Plg1.0000°,Azm124.0000° $M_0$5.59400×10^{18}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16 $M_{\theta\theta}$2.86 $M_{\phi\phi}$-2.70 $M_{r\theta}$1.51 $M_{\theta\phi}$-4.34 $M_{\phi r}$1.82 Best double couple: NP1:ϕ_s255.00000°,δ79.00000°,λ-160.00000°. NP2:ϕ_s161.00000°,δ71.00000°,λ-12.00000°. Principal axes: T 5.2700,Plg5.0000°,Azm27.0000°; N 0.7300,Plg67.0000°,Azm284.0000° ; P -6.0000,Plg21.0000°,Azm119.0000° $M_0$5.70000×10^{18}
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=170.0. Moment Tensor Solution. $M_0$3.50000×10^{18} Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.40 $M_{r\theta}$2.91 $M_{\theta\phi}$-3.20 $M_{\phi r}$-0.37 Best double couple: NP1:ϕ_s79.00000°,δ86.00000°,λ142.00000°. NP2:ϕ_s172.00000°,δ52.00000°,λ6.00000°. Principal axes: T 4.9500,Plg29.0000°,Azm28.0000°; N -0.9100,Plg52.0000°,Azm253.0000° ; P -4.0400,Plg22.0000°,Azm131.0000° $M_0$4.60000×10^{18}
MOS Error ellipse: s-maj=19.7km s-min=6.6km az=92.1.

(265) Minahassa Peninsula, Sulawesi

ISC	**VI**	**05 13 34 28.3–1.8**	**1.0N–.20**	**121.81E–.08**	**44**	**3.6b**	**22**	**1-57**
ISCJB	VI	05 13 34 27.9–.96	1.05N–.09	121.75E–.06	44	3.7b		**¶17205327**
IDC	VI	05 13 34 27.3–1.1	0.62N	122.57E	0	4.1L,4.0		
DJA	VI	05 13 34 28.5–.60	1N–3.0	122E–2.0	15–7	5.7b,5.2		

ISC Event type ke.
ISCJB Event type ke.

(181) Fiji Islands region

ISC	**VI**	**05 16 35 07.2–.45**	**15.22S–.05**	**177.76W–.04**	**28–2**	**5.8s,5.5b**	**1122**	**5-178**
NEIC	VI	05 16 35 03.0–.00	15.08S	177.93W	11	5.8s,5.5b		**¶16722616**
IDC	VI	05 16 35 03.4–.45	15.11S	177.87W	0	5.6,5.6		
BJI	VI	05 16 35 03.9	14.62S	177.49W	10	5.9s,5.6		
NEIC	VI	05 16 35 04.3–4.0	15.12S	177.89W	13–24	5.9W,5.8s		
GCMT	VI	05 16 35 04.3–.10	14.96S	177.84W	15	5.9W,5.8s		
ISCJB	VI	05 16 35 06.4–.11	15.13S–.03	177.92W–.02	33	5.7s,5.4b		
MOS	VI	05 16 35 06.9–1.4	15.05S	177.92W	33	5.7s,5.6b		

ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11 $M_{\theta\theta}$-0.45 $M_{\phi\phi}$0.56 $M_{r\theta}$0.08 $M_{\theta\phi}$7.68 $M_{\phi r}$-1.10 Best double couple: NP1:ϕ_s358.00000°,δ89.00000°,λ-171.00000°. NP2:ϕ_s268.00000°,δ82.00000°,λ0.00000°. Principal axes: T 7.8200,Plg5.0000°,Azm132.0000°; N -0.1000,Plg81.0000°,Azm1.0000° ; P -7.7200,Plg6.0000°,Azm223.0000° $M_0$7.80000×10^{17}
IDC Error ellipse: s-maj=15.4km s-min=12.1km az=122.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=154.0. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.75 $M_{\theta\theta}$2.64 $M_{\phi\phi}$-0.89 $M_{r\theta}$0.43 $M_{\theta\phi}$4.57 $M_{\phi r}$2.43 Best double couple: NP1:ϕ_s98.00000°,δ59.00000°,λ-13.00000°. NP2:ϕ_s195.00000°,δ79.00000°,λ-149.00000°. Principal axes: T 6.1600,Plg13.0000°,Azm323.0000° ; N -1.1100,Plg57.0000°,Azm213.0000°; P -5.0500,Plg30.0000°,Azm61.0000° $M_0$5.70000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c271; s139,c442;Duration: 2s3 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.04±.01 $M_{\theta\theta}$-0.18±.01; $M_{\phi\phi}$0.22±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$0.97±.01; $M_{\phi r}$-0.10±.02; Best double couple: NP1:ϕ_s174.00000°,δ88.00000°,λ174.00000°. NP2:ϕ_s264.00000°,δ84.00000°,λ2.00000°. Principal axes: T 1.0210,Plg5.0000°,Azm129.0000° ; N -0.0510,Plg84.0000°,Azm337.0000°; P -0.9700,Plg3.0000°,Azm219.0000° $M_0$0.99500×10^{18}
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.7km az=152.0.
MOS Error ellipse: s-maj=8.7km s-min=6.6km az=54.1.

(181) Fiji Islands region

ISC	**VI**	**05 16 55 51.6–.33**	**15.03S–.07**	**177.72W–.06**	**10**	**5.1b,4.8s**	**476**	**5-178**
ISCJB	VI	05 16 55 49.6–.16	15.09S–.04	177.78W–.04	10	5.0b,4.9s		**¶16557348**
IDC	VI	05 16 55 50.1–.49	15.10S	177.77W	0	4.8,4.8s		
GCMT	VI	05 16 55 50.8–.20	14.95S	177.79W	12	5.4W,4.8s		
NEIC	VI	05 16 55 50.8–.15	15.00S	177.85W	10	5.1b,4.8s		
BJI	VI	05 16 55 52.6	14.44S	177.63W	6	5.6b,5.5s		
MOS	VI	05 16 55 54.0–1.6	15.04S	177.76W	33	5.3b,5.5s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.8km az=147.3.
IDC Error ellipse: s-maj=19.3km s-min=13.2km az=121.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c45; s119,c201; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.03 $M_{\theta\theta}$-1.11±.02; $M_{\phi\phi}$1.17±.02; $M_{r\theta}$-0.10±.07; $M_{\theta\phi}$0.58±.02; $M_{\phi r}$0.47±.07; Best double couple: NP1:ϕ_s328.00000°,δ86.00000°,λ161.00000°. NP2:ϕ_s59.00000°,δ71.00000°,λ4.00000°. Principal axes: T 1.4340,Plg16.0000°,Azm282.0000°; N -0.1520,Plg71.0000°,Azm136.0000° ; P -1.2860,Plg10.0000°,Azm15.0000° $M_0$1.36000×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=3.9km az=142.0.
MOS Error ellipse: s-maj=10.5km s-min=8.0km az=51.4.

(162) South Island

ISC	**VI**	**05 21 09 55.0–.95**	**43.56S–.02**	**172.43E–.02**	**1–5**	**5.0b,4.2s**	**421**	**0-167**
IDC	VI	05 21 09 53.8–.60	43.62S	172.43E	0	4.7,4.6		**¶16558247**
ISCJB	VI	05 21 09 53.0–.47	43.61S–.02	172.58E–.03	14–3	5.0b,4.2s		
NEIC	VI	05 21 09 55.3	43.58S	172.39E	8	5.5L,5.1b		
BJI	VI	05 21 09 55.3	43.72S	172.21E	6	5.6b,5.3b		
GCMT	VI	05 21 09 55.3–.20	43.49S	172.31E	12	5.1W,5.3b		
WEL	VI	05 21 09 55.3–.05	43.59S	172.39E	9–0	5.5L,5.3b		
MOS	VI	05 21 09 56.0–2.0	43.47S	172.19E	10	5.0b,5.3b		

ISC Event type fe.
IDC Error ellipse: s-maj=21.7km s-min=10.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.4km az=137.4.
NEIC Event type fe. Felt [V] at Christchurch. Felt throughout Canterbury and in the Hokitika-Westport area. After WEL. Moment Tensor Solution. s41 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.04 $M_{\theta\theta}$1.14 $M_{\phi\phi}$-1.11 $M_{r\theta}$0.50 $M_{\theta\phi}$-3.96 $M_{\phi r}$0.35 Best double couple: NP1:ϕ_s262.00000°,δ86.00000°,λ-173.00000°. NP2:ϕ_s172.00000°,δ83.00000°,λ-4.00000°. Principal axes: T 4.1400,Plg3.0000°,Azm37.0000°; N 0.0300,Plg82.0000°,Azm289.0000° ; P -4.1800,Plg8.0000°,Azm127.0000° $M_0$4.20000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c45; s95,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.03±.12 $M_{\theta\theta}$2.41±.11; $M_{\phi\phi}$-2.37±.10; $M_{r\theta}$-0.30±.30; $M_{\theta\phi}$-4.15±.09; $M_{\phi r}$-0.12±.29; Best double couple: NP1:ϕ_s75.00000°,δ90.00000°,λ-176.00000°. NP2:ϕ_s345.00000°,δ86.00000°,λ0.00000°. Principal axes: T 4.8170,Plg2.0000°,Azm210.0000°; N -0.0290,Plg86.0000°,Azm82.0000° ; P -4.7830,Plg3.0000°,Azm300.0000° $M_0$4.80000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0. Felt between Nelson, Southland and Wellington, maximum reported intensity MM. 7.
MOS Error ellipse: s-maj=14.4km s-min=11.5km az=83.4.

(705) Off west coast of northern Sumatera

ISC	**VI**	**07 02 54 23.7–.26**	**1.14N–.03**	**96.74E–.04**	**35**	**4.9b,4.1s**	**391**	**1-159**
IDC	VI	07 02 54 18.0–.37	1.14N	96.69E	0	4.7,4.6		**¶16560657**
KLM	VI	07 02 54 19.6	1.22N	96.48E	21	5.8s,5.3L		
BJI	VI	07 02 54 20.4	0.78N	96.76E	43	5.1b,5.0b		
MOS	VI	07 02 54 21.7–.95	1.20N	96.72E	33	5.0b,4.1s		
ISCJB	VI	07 02 54 21.5–.17	1.13N–.02	96.76E–.02	33	4.8b,4.2s		
DJA	VI	07 02 54 22.2–.80	1N–2.0	97E–3.0	33–8	5.6b,5.2		
GCMT	VI	07 02 54 23.2–.30	1.20N	96.76E	13–1	4.9W,5.2		
NEIC	VI	07 02 54 23.2–1.6	1.14N	96.75E	34–11	5.0b,5.2		

ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=59.0.
MOS Error ellipse: s-maj=8.7km s-min=5.0km az=107.2.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=37.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c36; s82,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.97±.11 $M_{\theta\theta}$0.70±.07; $M_{\phi\phi}$1.27±.08; $M_{r\theta}$1.67±.24; $M_{\theta\phi}$-0.54±.05; $M_{\phi r}$-1.33±.22; Best double couple: NP1:ϕ_s314.00000°,δ70.00000°,λ-97.00000°. NP2:ϕ_s155.00000°,δ21.00000°,λ-70.00000°. Principal axes: T 2.5410,Plg25.0000°,Azm50.0000°; N 0.4630,Plg7.0000°,Azm316.0000° ; P -3.0040,Plg64.0000°,Azm212.0000° $M_0$2.77200×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=56.0.

(705) Off west coast of northern Sumatera

ISC	**VI**	**07 03 27 40.5–.86**	**1.11N–.05**	**96.80E–.06**	**48–7**	**4.4b,4.1s**	**123**	**1-150**
IDC	VI	07 03 27 33.6–.48	1.06N	96.61E	0	4.5L,4.4		**¶16577411**
DJA	VI	07 03 27 36.8–1.5	1N–3.0	97E–7.0	34–17	5.3b,5.0b		
ISCJB	VI	07 03 27 36.5–1.4	1.11N–.03	96.77E–.05	29–10	4.4b,4.0s		
NEIC	VI	07 03 27 37.2–2.6	1.08N	96.75E	24–18	4.5b,4.0s		
KLM	VI	07 03 27 38.7	1.09N	96.70E	43	5.6s,4.7b		
BJI	VI	07 03 27 38.5	0.91N	96.85E	60	4.8b,4.5b		

ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=12.2km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.0km az=160.1.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=5.3km az=60.0.

(410) Southern Mid-Atlantic Ridge

ISC	**VI**	**07 05 18 33.6–.28**	**44.24S–.07**	**16.11W–.06**	**16**	**5.3s,5.2b**	**290**	**28-159**
IDC	VI	07 05 18 30.2–.47	44.17S	15.92W	0	5.4s,5.4		**¶16560659**
MOS	VI	07 05 18 31.7–1.2	44.33S	15.74W	10	5.2b,5.4		
ISCJB	VI	07 05 18 31.9–.27	44.33S–.06	16.24W–.07	16	5.4s,5.2b		
GCMT	VI	07 05 18 32.4–.10	44.39S	15.75W	12	5.6W,5.2b		
NEIC	VI	07 05 18 32.4–.20	44.18S	16.04W	10	5.3b,5.2b		
BJI	VI	07 05 18 32.5	44.20S	16.10W	10	5.6s,5.5b		

ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=12.3km az=0.0.
MOS Error ellipse: s-maj=19.6km s-min=10.1km az=83.2.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=7.6km az=171.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s92,c144; s131,c356;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.24±.03 $M_{\theta\theta}$0.32±.03; $M_{\phi\phi}$2.92±.03; $M_{r\theta}$-0.12±.12; $M_{\theta\phi}$-0.60±.03; $M_{\phi r}$0.04±.10; Best double couple: NP1:ϕ_s166.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s349.00000°,δ44.00000°,λ-87.00000°. Principal axes: T 3.0520,Plg1.0000°,Azm258.0000°; N 0.1930,Plg2.0000°,Azm168.0000° ; P -3.2440,Plg88.0000°,Azm4.0000° $M_0$3.14800×10^{17}
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.2km az=174.0.

(282) South of Jawa

ISC	**VI**	**07 06 16 47.7–.50**	**11.18S–.06**	**113.54E–.05**	**25**	**4.2b**	**87**	**3-148**
IDC	VI	07 06 16 44.4–.75	11.14S	113.57E	0	4.3,4.2		**¶16856556**
ISCJB	VI	07 06 16 45.5–.42	11.25S–.04	113.43E–.03	25	4.2b,4.2		
DJA	VI	07 06 16 46.1–1.5	11S–5.0	114E–2.0	37–20	5.6b,5.0		
NEIC	VI	07 06 16 49.6–.38	11.13S	113.74E	35	4.5b,5.0		

ISC Event type se.
IDC Error ellipse: s-maj=33.3km s-min=15.1km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=24.8.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=6.3km az=56.0.

(685) Easter Island region

ISC	**VI**	**07 09 32 24.4–.39**	**28.15S–.08**	**113.16W–.08**	**10**	**4.9b,4.4s**	**150**	**20-166**
ISCJB	VI	07 09 32 22.3–.30	28.15S–.05	113.17W–.08	10	4.8b,4.3s		**¶16561018**
IDC	VI	07 09 32 22.6–.59	28.03S	113.17W	0	4.6,4.4		
BJI	VI	07 09 32 24.5	28.20S	112.90W	10	5.5s,5.3		
GCMT	VI	07 09 32 24.1–.20	28.31S	113.14W	17–1	5.0W,5.3		
NEIC	VI	07 09 32 24.1–.23	28.19S	113.12W	10	4.9b,5.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.8km az=166.6.
IDC Error ellipse: s-maj=22.7km s-min=16.8km az=71.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c48; s92,c143; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.06±.13 $M_{\theta\theta}$-3.96±.13; $M_{\phi\phi}$4.02±.13; $M_{r\theta}$-1.61±.33; $M_{\theta\phi}$0.36±.12; $M_{\phi r}$-0.74±.30; Best double couple: NP1:ϕ_s47.00000°,δ85.00000°,λ-22.00000°. NP2:ϕ_s139.00000°,δ68.00000°,λ-174.00000°. Principal axes: T 4.2040,Plg12.0000°,Azm95.0000°; N 0.3320,Plg67.0000°,Azm214.0000° ; P -4.5400,Plg20.0000°,Azm1.0000° $M_0$4.37200×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=79.0.

(221) Kuril Islands

ISC	**VI**	**07 10 38 30.0–.36**	**48.27N–.03**	**154.35E–.03**	**55–2**	**5.3b,4.6s**	**1673**	**3-154**
NIED	VI	07 10 38 00	48.20N	155.30E	44	5.1W,4.6s		**¶16561020**
JMA	VI	07 10 38 22.2–.80	48.24N	155.28E	30	5.8,4.6s		
BJI	VI	07 10 38 27.3	48.19N	154.57E	63	5.2b,4.9b		
ISCJB	VI	07 10 38 28.2–.29	48.27N–.02	154.33E–.02	51–2	5.3b,4.5s		
KRSC	VI	07 10 38 28.5–3.6	48.25N	154.65E	120–43	5.6L,4.5s		

MOS VI 07 10 38 30.7–.95 48.43N 154.24E 74 5.4b,4.5s
SKHL VI 07 10 38 30.1–.60 48.20N 154.60E 75–3 5.8,5.8b
IDC VI 07 10 38 31.8–1.9 48.33N 154.23E 67–17 5.1,5.0
NEIC VI 07 10 38 32.7–.43 48.36N 154.20E 75–3 5.3b,5.0
GCMT VI 07 10 38 32.7–.10 48.28N 154.58E 46–0 5.3W,5.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ35.00000°,λ11.00000°. NP2:ϕ_e251.00000°,δ84.00000°,λ124.00000°. $M_0$4.72000×10^{16}
JMA Error ellipse: s-maj=10.0km s-min=8.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=1.5km az=152.7.
KRSC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=3.2km az=73.6.
IDC Error ellipse: s-maj=10.8km s-min=7.9km az=140.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=1.7km az=155.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c152; s109,c178; Duration: 1$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.90±.02 $M_{\theta\theta}$-0.23±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.09±.01; $M_{\theta\phi}$-0.47±.01; $M_{\phi r}$0.23±.01; Best double couple: NP1:ϕ_s29.00000°,δ52.00000°,λ86.00000°. NP2:ϕ_e216.00000°,δ38.00000°,λ95.00000°. Principal axes: T 0.9350,Plg82.0000°,Azm279.0000°; N 0.0630,Plg3.0000°,Azm32.0000° ; P -0.9980,Plg7.0000°,Azm122.0000° $M_0$0.96700×10^{17}

(275) Java Sea

ISC	**VI**	**07 11 28 15.6–2.6**	**3.99S–.09**	**103.5E–.20**	**10**	**3.7b**	**11**	**3-45**
IDC	VI	07 11 28 12.9–25	4.00S	103.32E	0	4.0,3.8		**¶17205479**
DJA	VI	07 11 29 09.6–1.3	4S–5.0	107E–9.0	105–22	5.7b,5.2		

ISC Event type ke.

(332) Northern Xinjiang

ISC	**VI**	**08 01 53 26.2–.37**	**43.04N–.03**	**88.25E–.02**	**22–2**	**5.3b,5.1s**	**1066**	**1-153**
BJI	VI	08 01 53 23.4	42.95N	88.30E	10	5.5L,5.1s		**¶16575902**
MOS	VI	08 01 53 24.4–.93	43.02N	88.28E	23	5.5b,5.0s		
NNC	VI	08 01 53 24.5–1.9	43.03N	88.31E	19–10	5.6,5.6b		
ISCJB	VI	08 01 53 24.4–.10	43.02N–.02	88.23E–.02	20	5.2b,5.0s		
GCMT	VI	08 01 53 26.1–.20	43.03N	88.28E	24–0	5.1W,5.0s		
OBM	VI	08 01 53 26.0–.09	43.07N	88.18E	15	4.9L,5.0s		
NEIC	VI	08 01 53 26.1–.82	43.02N	88.25E	21–5	5.3b,5.0s		
IDC	VI	08 01 53 29.0–1.6	43.04N	88.34E	45–15	5.0,4.8b		

ISC Event type de.
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=40.0.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=11.3km az=85.0.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.7km az=15.3.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c73; s90,c154; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.29±.16 $M_{\theta\theta}$-4.48±.10; $M_{\phi\phi}$0.19±.09; $M_{r\theta}$2.23±.14; $M_{\theta\phi}$0.07±.07; $M_{\phi r}$0.68±.13; Best double couple: NP1:ϕ_s82.00000°,δ59.00000°,λ81.00000°. NP2:ϕ_e279.00000°,δ32.00000°,λ104.00000°. Principal axes: T 4.9200,Plg74.0000°,Azm328.0000°; N 0.0980,Plg8.0000°,Azm87.0000° ; P -5.0160,Plg14.0000°,Azm179.0000° $M_0$4.96800×10^{16}
OBM Error ellipse: s-maj=2.2km s-min=1.1km az=177.0.
NEIC Event type de. Error ellipse: s-maj=2.8km s-min=2.1km az=189.0. At least eight people injured, 50 homes damaged and landslides occurred in the Dabancheng area. Felt [III] at Urumqi. Also felt at Korla.
IDC Error ellipse: s-maj=8.6km s-min=6.7km az=1.0.

(274) Southern Sumatera

ISC	**VI**	**08 08 48 49.9–.42**	**5.26S–.06**	**102.41E–.06**	**44**	**4.7b,3.6s**	**230**	**1-152**
IDC	VI	08 08 48 44.5–.73	5.05S	102.56E	0	4.6,4.5b		**¶16575946**
ISCJB	VI	08 08 48 47.8–.30	5.32S–.04	102.39E–.03	44	4.6b,3.6s		
DJA	VI	08 08 48 48.3–1.1	5S–4.0	102E–4.0	19–11	5.2b,4.9b		
NEIC	VI	08 08 48 49.4–.75	5.21S	102.41E	38–6	4.7b,4.9b		
KLM	VI	08 08 48 52.3	5.32S	102.68E	39	5.8s,4.7b		

ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=11.2km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=41.6.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.8km az=50.0.

(705) Off west coast of northern Sumatera

ISC	**VI**	**08 16 32 19.0–.34**	**1.17N–.03**	**96.75E–.03**	**23–1**	**5.3b,4.7s**	**893**	**1-157**
BJI	VI	08 16 32 15.5	1.01N	96.78E	20	5.5s,5.3		**¶16577432**
IDC	VI	08 16 32 15.3–.34	1.14N	96.76E	0	5.1,5.1b		
KLM	VI	08 16 32 17.3	1.19N	96.65E	10	6.2s,5.3b		
NEIC	VI	08 16 32 18.5–1.1	1.17N	96.78E	21–7	5.3b,5.3W		
MOS	VI	08 16 32 18.2–1.0	1.23N	96.75E	28	5.4b,4.7s		
GCMT	VI	08 16 32 18.5–.20	1.22N	96.70E	12	5.3W,4.7s		
ISCJB	VI	08 16 32 18.0–.65	1.16N–.02	96.77E–.02	29–4	5.2b,4.8s		
DJA	VI	08 16 32 19.9–.20	1N–2.0	97E–2.0	10	5.5b,5.4		

ISC Event type fe.
NEIC Event type fe. Felt at Kuala Lumpur, Malaysia. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.54 $M_{\theta\theta}$2.67 $M_{\phi\phi}$2.87 $M_{r\theta}$5.78 $M_{\theta\phi}$-2.01 $M_{\phi r}$-5.42 Best double couple: NP1:ϕ_s138.00000°,δ17.00000°,λ-86.00000°. NP2:ϕ_s314.00000°,δ73.00000°,λ-91.00000°. Principal axes: T 9.0600,Plg28.0000°,Azm45.0000° ; N 0.7700,Plg1.0000°,Azm314.0000°; P -9.8300,Plg62.0000°,Azm222.0000° $M_0$9.50000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c105; s107,c188;Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.59±.01 $M_{\theta\theta}$0.27±.01; $M_{\phi\phi}$0.32±.01; $M_{r\theta}$0.89±.03; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$-0.32±.03; Best double couple: NP1:ϕ_s295.00000°,δ75.00000°,λ-100.00000°. NP2:ϕ_s151.00000°,δ18.00000°,λ-56.00000°. Principal axes: T 1.0360,Plg29.0000°,Azm33.0000° ; N 0.1230,Plg10.0000°,Azm298.0000°; P -1.1590,Plg59.0000°,Azm191.0000° $M_0$1.09800×10^{17}
ISCJB Event type fe.

(188) Loyalty Islands

ISC	**VI**	**08 21 46 02.1–.33**	**20.33S–.05**	**168.32E–.05**	**32–1**	**5.3b,4.5s**	**593**	**2-165**
IDC	VI	08 21 45 56.8–.50	20.34S	168.43E	0	4.9,4.8		**¶16720887**
GCMT	VI	08 21 45 58.9–.10	20.20S	168.21E	12	5.1W,4.8		
NEIC	VI	08 21 45 58.9–.12	20.21S	168.38E	10	5.3b,4.8		
MOS	VI	08 21 46 01.4–1.1	20.14S	168.24E	33	5.6b,4.8		
ISCJB	VI	08 21 46 01.4–1.4	20.25S–.04	168.33E–.03	36–12	5.2b,4.6s		
BJI	VI	08 21 46 05.3	19.57S	168.31E	46	5.3s,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=13.3km az=115.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c103; s110,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.52±.09 $M_{\theta\theta}$0.01±.10; $M_{\phi\phi}$5.51±.08; $M_{r\theta}$0.29±.28; $M_{\theta\phi}$-0.55±.08; $M_{\phi r}$2.04±.25; Best double couple: NP1:ϕ_s179.00000°,δ55.00000°,λ-85.00000°. NP2:ϕ_s350.00000°,δ35.00000°,λ-98.00000°. Principal axes: T 5.9170,Plg10.0000°,Azm265.0000°; N -0.0030,Plg4.0000°,Azm356.0000° ; P -5.9100,Plg79.0000°,Azm110.0000° $M_0$5.91300×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=4.0km az=138.0.
MOS Error ellipse: s-maj=8.8km s-min=8.0km az=56.6.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.7km az=9.9.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 10 38 33.9–.46**	**36.50N–.02**	**140.97E–.03**	**13–2**	**5.3b,5.2s**	**1097**	**0-158**
NIED	VI	09 10 38 00	36.50N	140.90E	5	5.5W,5.2s		**¶16580633**
BJI	VI	09 10 38 30.8	36.27N	140.97E	15	5.7s,5.5		
IDC	VI	09 10 38 31.5–.39	36.50N	140.83E	0	5.0,5.0		
JMA	VI	09 10 38 32.9–.10	36.50N	140.97E	13–2	5.7,5.0		
ISCJB	VI	09 10 38 34.0–.42	36.48N–.02	140.88E–.02	22–2	5.2s,5.2b		
MOS	VI	09 10 38 33.4–1.2	36.55N	140.93E	24	5.4b,5.2s		
GCMT	VI	09 10 38 34.5–.10	36.47N	140.90E	12	5.4W,5.2s		
NEIC	VI	09 10 38 34.5–1.6	36.48N	140.77E	16–9	5.3b,5.2s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ36.00000°,λ-32.00000°. NP2:ϕ_s142.00000°,δ72.00000°,λ-122.00000°. $M_0$1.96000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=88.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s352.00000°,δ52.00000°,λ-106.00000°. NP2:ϕ_s198.00000°,δ41.00000°,λ-70.00000°. Principal axes: T Plg6.0000°,Azm94.0000°; N Plg13.0000°,Azm3.0000°; P Plg76.0000° ,Azm207.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=147.6.
MOS Error ellipse: s-maj=6.9km s-min=4.8km az=104.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c116; s131,c251; Duration: 1$\dot{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.02 $M_{\theta\theta}$-0.88±.02; $M_{\phi\phi}$1.73±.02; $M_{r\theta}$0.47±.05; $M_{\theta\phi}$-0.44±.02; $M_{\phi r}$0.49±.05; Best double couple: NP1:ϕ_s206.00000°,δ68.00000°,λ-40.00000°. NP2:ϕ_s313.00000°,δ54.00000°,λ-152.00000°. Principal axes: T 1.8650,Plg9.0000°,Azm262.0000°; N -0.3990,Plg45.0000°,Azm1.0000° ; P -1.4680,Plg43.0000°,Azm164.0000° $M_0$1.66700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=140.0. Felt [III] at Narita and Tokyo. Also felt at Abiko, Ageo, Ashikaga, Chiba, Enzan, Ichinoseki, Kashiwa, Kumagaya and Sendai. Recorded [4 JMA] in Ibaraki and Tochigi.

(178) Kermadec Islands

ISC	**VI**	**09 20 16 29.5–.40**	**30.37S–.04**	**177.98W–.04**	**41–3**	**5.5b,5.1s**	**938**	**1-172**
NEIC	VI	09 20 16 28.3–1.4	30.42S	178.06W	31–9	5.6W,5.4b		**¶602918590**
MOS	VI	09 20 16 28.3–1.1	30.22S	178.06W	33	5.7b,5.1s		
GCMT	VI	09 20 16 28.3–.10	30.29S	177.64W	46–0	5.6W,5.1s		
ISCJB	VI	09 20 16 28.2–.10	30.66S–.02	178.08W–.03	45	5.5b,5.1s		
BJI	VI	09 20 16 28.6	29.72S	177.22W	48	5.5b,5.3b		
IDC	VI	09 20 16 29.6–1.5	30.22S	177.90W	39–11	5.2,5.0		
NEIC	VI	09 20 16 30.0–.00	30.36S	177.92W	35	5.2,5.0		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=137.0.
MOS Error ellipse: s-maj=9.7km s-min=7.1km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c231; s120,c273;Duration: 1$\dot{s}$5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.47±.03 $M_{\theta\theta}$0.07±.03; $M_{\phi\phi}$-2.53±.02; $M_{r\theta}$0.11±.03; $M_{\theta\phi}$-0.23±.02; $M_{\phi r}$1.21±.03; Best double couple: NP1:ϕ_s5.00000°,δ58.00000°,λ90.00000°. NP2:ϕ_s185.00000°,δ32.00000°,λ90.00000°. Principal axes: T 2.7480,Plg77.0000°,Azm275.0000°; N 0.0880,Plg0.0000°,Azm5.0000° ; P -2.8290,Plg13.0000°,Azm95.0000° $M_0$2.78900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=1.8km az=28.8.
IDC Error ellipse: s-maj=12.4km s-min=11.6km az=29.0.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}2.49 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-2.54 $M_{r\theta}$-0.55 $M_{\theta\phi}$-0.52 $M_{\phi r}$1.92 Best double couple: NP1:ϕ_s355.00000°,δ64.00000°,λ75.00000°. NP2:ϕ_s206.00000°,δ29.00000°,λ118.00000°. Principal axes: T 3.2900,Plg67.0000°,Azm237.0000°; N -0.0700,Plg13.0000°,Azm1.0000° ; P -3.2200,Plg17.0000°,Azm95.0000° $M_0$3.30000×10^{17}

(207) Eastern New Guinea region

ISC	**VI**	**10 00 11 22.4–.41**	**6.62S–.03**	**147.94E–.04**	**41–3**	**5.2b,4.8s**	**558**	**3-153**
IDC	VI	10 00 11 16.4–.38	6.60S	147.65E	0	5.0,5.0		**¶16581500**
BJI	VI	10 00 11 18.0	6.54S	148.28E	34	5.3b,5.0s		
ISCJB	VI	10 00 11 21.0–.70	6.64S–.03	147.98E–.03	47–6	5.2b,4.8s		
MOS	VI	10 00 11 21.8–1.4	6.53S	147.69E	44	5.4b,4.8s		
NEIC	VI	10 00 11 23.4–.69	6.62S	147.87E	52–6	5.2b,4.8s		
GCMT	VI	10 00 11 23.4–.10	6.79S	147.85E	12	5.2W,4.8s		
DJA	VI	10 00 11 29.3–.90	7S–4.0	148E–6.0	88–7	5.9b,5.5		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c144; s110,c221;Duration: 1$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$0.71±.01; $M_{r\theta}$-0.32±.03; $M_{\theta\phi}$0.38±.01; $M_{\phi r}$-0.08±.03; Best double couple: NP1:ϕ_s42.00000°,δ54.00000°,λ-69.00000°. NP2:ϕ_s189.00000°,δ41.00000°,λ-116.00000°. Principal axes: T 0.9230,Plg7.0000°,Azm117.0000° ; N -0.0150,Plg17.0000°,Azm209.0000°; P -0.9090,Plg72.0000°,Azm5.0000° $M_0$0.91600×10^{17}

(632) South Pacific Ocean

ISC	**VI**	**10 15 32 52.8–2.3**	**6.70S–.07**	**122.79W–.07**	**33–8**	**5.5b,4.5s**	**985**	**17-159**
ISCJB	VI	10 15 32 46.4–.36	6.81S–.05	122.63W–.04	10	5.4b,4.5s		**¶16587368**
IDC	VI	10 15 32 47.7–.56	6.54S	122.89W	0	4.9,4.8		
NEIC	VI	10 15 32 48.9–.23	6.73S	122.74W	10	5.5b,4.5s		
MOS	VI	10 15 32 48.4–1.0	6.51S	122.65W	10	5.5b,4.5s		
GCMT	VI	10 15 32 49.0–.20	6.57S	122.71W	12	5.1W,4.5s		
BJI	VI	10 15 32 49.4	6.70S	122.70W	10	5.4b,5.1s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.0km az=20.1.
IDC Error ellipse: s-maj=22.3km s-min=15.0km az=69.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=72.0.
MOS Error ellipse: s-maj=12.8km s-min=5.3km az=79.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c86; s118,c198; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.62±.10 $M_{\theta\theta}$-0.57±.10; $M_{\phi\phi}$-5.04±.09; $M_{r\theta}$-3.91±.32; $M_{\theta\phi}$0.08±.08; $M_{\phi r}$0.72±.27; Best double couple: NP1:ϕ_s332.00000°,δ56.00000°,λ59.00000°. NP2:ϕ_s199.00000°,δ45.00000°,λ127.00000°. Principal axes: T 7.5410,Plg64.0000°,Azm186.0000°; N -2.4100,Plg25.0000°,Azm351.0000° ; P -5.1250,Plg6.0000°,Azm84.0000° $M_0$6.33300×10^{16}

(277) Jawa

ISC	**VI**	**11 20 23 12.1–.35**	**6.76S–.05**	**106.33E–.05**	**35**	**4.5b,3.5s**	**199**	**0-156**
IDC	VI	11 20 23 06.4–.45	6.59S	106.37E	0	4.4,4.3		**¶16591635**
NEIC	VI	11 20 23 08.5–.52	6.62S	106.34E	14–3	4.7b,4.3		
ISCJB	VI	11 20 23 09.9–.24	6.72S–.04	106.33E–.03	33	4.5b,3.5s		
MOS	VI	11 20 23 10.4–1.3	6.47S	106.51E	33	4.9b,3.5s		
DJA	VI	11 20 23 10.1–.30	7S–4.0	106E–3.0	10	5.7b,5.2		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Banten, Cisarua, Lebak and Sukabumi. Also felt at Curug and Jakarta.
ISCJB Event type fe.

(558) Ethiopia

ISC	**VI**	**12 17 18 10.5–.72**	**13.33N–.03**	**41.81E–.04**	**14–4**	**4.8b,4.2s**	**499**	**1-126**
ARO	VI	12 17 18 06.6	13N–12	42E–11	4–19	5.0L,4.2s		**¶16591671**
BJI	VI	12 17 18 06.2	12.94N	41.73E	10	4.9b,4.9s		
MOS	VI	12 17 18 08.2–1.0	13.36N	41.75E	10	5.1b,4.2s		
IDC	VI	12 17 18 08.3–.53	13.27N	41.77E	0	4.6,4.6b		
DHMR	VI	12 17 18 08.9–1.6	13.33N	41.93E	30–10	4.8L,4.6b		
ISCJB	VI	12 17 18 09.2–.18	13.32N–.02	41.80E–.02	18	4.7b,4.2s		
NEIC	VI	12 17 18 09.6–.31	13.34N	41.77E	10	4.8b,4.2s		
CSEM	VI	12 17 18 09.7–.14	13.34N	41.83E	10	4.8b,4.2s		
DSN	VI	12 17 18 10.2–.48	13.29N	41.95E	10	5.5b,4.2s		
STR	VI	12 17 18 16.6–.00	13.87N	40.90E		4.9b,4.2s		

ISC Event type ke.
MOS Error ellipse: s-maj=9.3km s-min=4.3km az=93.3.
IDC Error ellipse: s-maj=12.7km s-min=11.5km az=37.0.
DHMR Error ellipse: s-maj=8.2km s-min=9.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=18.7.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.1km az=204.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=7.0.
DSN Error ellipse: s-maj=15.3km s-min=6.2km az=122.0.
STR Event type ke.

(558) Ethiopia

ISC	**VI**	**12 20 32 40.0–.44**	**13.44N–.03**	**41.73E–.03**	**7–2**	**5.3b,5.2s**	**1266**	**2-170**
BJI	VI	12 20 32 34.7	13.13N	41.53E	4	5.8b,5.6		**¶16591779**
IDC	VI	12 20 32 38.2–.44	13.33N	41.71E	0	5.4s,5.3		
ISCJB	VI	12 20 32 39.2–.15	13.38N–.02	41.72E–.02	15	5.2b,5.2s		
STR	VI	12 20 32 39.6–.00	13.10N	41.20E		5.4b,5.2s		
MOS	VI	12 20 32 39.0–1.1	13.46N	41.69E	10	5.6b,5.0s		
DHMR	VI	12 20 32 39.8–1.0	13.56N	42.17E	9–30	5.3L,5.0s		
NEIC	VI	12 20 32 40.0–.00	13.46N	41.69E	15	5.3L,5.0s		
SFS	VI	12 20 32 40.0	13.42N	41.70E	10	5.3L,5.0s		
GCMT	VI	12 20 32 40.5–.10	13.58N	41.81E	12	5.6W,5.0s		
CSEM	VI	12 20 32 40.5–.10	13.42N	41.73E	10	5.6W,5.3b		
DSN	VI	12 20 32 40.2–.46	13.38N	41.93E	10	5.5b,5.3b		
NEIC	VI	12 20 32 40.5–.17	13.41N	41.74E	10	5.7W,5.6W		

ISC Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.2km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=23.0.
STR Event type ke.
MOS Error ellipse: s-maj=7.0km s-min=3.3km az=97.3.
DHMR Error ellipse: s-maj=4.3km s-min=27.0km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.15 $M_{\theta\theta}$1.26 $M_{\phi\phi}$0.89 $M_{r\theta}$0.72 $M_{\theta\phi}$-1.42 $M_{\phi r}$-1.23 Best double couple: NP1:ϕ_s322.00000°,δ61.00000°,λ-78.00000°. NP2:ϕ_s119.00000°,δ31.00000°,λ-109.00000°. Principal axes: T 2.8700,Plg15.0000°,Azm43.0000°; N -0.2800,Plg10.0000°,Azm136.0000° ; P -2.5900,Plg71.0000°,Azm258.0000° $M_0$2.70000×10^{17}
SFS Event type ke.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c143; s121,c299;Duration: 1$\dot{s}$5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.45±.03 $M_{\theta\theta}$1.71±.03;

$M_{\phi\phi}$0.74±.03; $M_{r\theta}$0.81±.08; $M_{\theta\theta}$-1.75±.02; $M_{\theta r}$0.29±.08; Best double couple: NP1:
ϕ_s290.00000°,δ53.00000°,λ-113.00000°. NP2:ϕ_s145.00000°,δ43.00000°,λ-63.00000°.
Principal axes: T 3.0810,Plg5.0000°,Azm36.0000°; N -0.3510,Plg18.0000°,Azm305.0000°
; P -2.7300,Plg71.0000°,Azm141.0000° $M_0$2.90600×10^{17}

CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=26.0.

DSN Error ellipse: s-maj=14.3km s-min=5.8km az=124.0.

NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=47.0. Felt at Ta'izz, Yemen. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49 $M_{\theta\phi}$2.01 $M_{\phi\phi}$-0.52 $M_{r\theta}$2.02 $M_{\theta\theta}$-2.68 $M_{\theta r}$0.94 Best double couple: NP1:ϕ_s265.00000°,δ73.00000°,λ-139.00000°. NP2:ϕ_s161.00000°,δ51.00000°,λ-22.00000°. Principal axes: T 4.0100,Plg14.0000° ,Azm28.0000°; N -0.1600,Plg46.0000°,Azm283.0000°; P -3.8500,Plg41.0000° ,Azm130.0000° $M_0$3.90000×10^{17}

(558) Ethiopia

ISC	**VI**	**12 21 03 22.3–.48**	**13.52N–.03**	**41.70E–.03**	**3–2**	**5.6b,5.1s**	**1387**	**2-143**
BJI	VI	12 21 03 16.4	13.23N	41.28E	4	5.5b,5.4s		**¶17206003**
IDC	VI	12 21 03 20.9–.39	13.38N	41.69E	0	5.2,5.2		
ISCJB	VI	12 21 03 21.2–.14	13.54N–.02	41.65E–.02	8	5.5b,5.0s		
STR	VI	12 21 03 22.6–.00	13.59N	41.60E		5.4b,5.0s		
CSEM	VI	12 21 03 22.5–.09	13.55N	41.68E	5	5.6b,5.4W		
MOS	VI	12 21 03 22.4–1.0	13.57N	41.60E	14	5.9b,5.0s		
NEIC	VI	12 21 03 23.2–.16	13.53N	41.64E	10	5.6b,5.1s		
GCMT	VI	12 21 03 23.1–.10	13.58N	41.80E	12	5.4W,5.1s		
DHMR	VI	12 21 03 23.6–.60	13.55N	42.24E	6–17	5.2L,5.1s		
DSN	VI	12 21 03 26.8–1.1	13.81N	41.96E	10	5.9b,5.1s		

ISC Event type fe.

IDC Error ellipse: s-maj=9.9km s-min=8.6km az=52.0.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=19.9.

STR Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=19.0.

MOS Error ellipse: s-maj=6.7km s-min=3.1km az=99.1.

NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=222.0. Felt [IV] at Mek'ele and [III] at Korem, Ethiopia. Felt [II] at Asmera, Eritrea. Also felt at Assab. Felt at Djibouti, Djibouti. Also felt at Aden and Al Hudaydah, Yemen.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s82,c118; s117,c263;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.02 $M_{\theta\theta}$1.17±.01; $M_{\phi\phi}$0.09±.02; $M_{r\theta}$0.46±.04; $M_{\theta\phi}$-0.57±.01; $M_{\theta r}$0.12±.04; Best double couple: NP1: ϕ_s280.00000°,δ54.00000°,λ-106.00000°. NP2:ϕ_s127.00000°,δ39.00000°,λ-69.00000°. Principal axes: T 1.4650,Plg8.0000°,Azm22.0000°; N -0.0800,Plg13.0000°,Azm290.0000° ; P -1.3810,Plg75.0000°,Azm142.0000° $M_0$1.42300×10^{17}

DHMR Error ellipse: s-maj=2.6km s-min=15.8km az=-1.0.

DSN Error ellipse: s-maj=18.2km s-min=10.4km az=178.0.

(162) South Island

ISC	**VI**	**13 02 20 50.3–.47**	**43.50S–.02**	**172.78E–.02**	**9–2**	**6.0s,5.8b**	**1485**	**0-178**
ISCJB	VI	13 02 20 48.9–.18	43.40S–.02	172.82E–.03	10	6.0s,5.8b		**¶16591901**
MOS	VI	13 02 20 48.0–1.1	43.37S	172.89E	10	5.9s,5.8b		
BJI	VI	13 02 20 49.4	43.63S	172.67E	8	6.0b,5.9s		
WEL	VI	13 02 20 49.3–.10	43.57S	172.74E	7–0	6.4L,6.0W		
GCMT	VI	13 02 20 49.3–.10	43.52S	172.62E	12	6.0W,6.0W		
NEIC	VI	13 02 20 49.3	43.56S	172.74E	6	6.4,6.3L		
IDC	VI	13 02 20 49.1–.34	43.36S	172.90E	0	5.7,5.7s		
NEIC	VI	13 02 20 50.0–.00	43.68S	172.74E	11	5.7,5.7s		

ISC Event type de.

ISCJB Event type de. Error ellipse: s-maj=3.7km s-min=2.0km az=141.1.

MOS Error ellipse: s-maj=14.4km s-min=11.2km az=92.2.

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Northland to Otago, maximum reported intensity MM 8.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c279; s144,c463;Duration: 2s3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.29±.01 $M_{\theta\theta}$0.55±.01; $M_{\phi\phi}$-0.84±.01; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$-0.75±.01; $M_{\theta r}$-0.19±.02; Best double couple: NP1:ϕ_s161.00000°,δ76.00000°,λ19.00000°. NP2:ϕ_s66.00000° ,δ72.00000°,λ165.00000°. Principal axes: T 1.0080,Plg23.0000°,Azm24.0000° ; N 0.1690,Plg67.0000°,Azm197.0000°; P -1.1770,Plg3.0000°,Azm293.0000° $M_0$1.09200×10^{18}

NEIC Event type de. Forty-five people injured, 100 previously-damaged buildings destroyed, many roads damaged, one bridge destroyed, utilities disrupted, widespread liquefaction and landslides observed [VII] in the Christchurch area. Seaport damaged at Lyttelton. Total damage in Canterbury estimated at 3 to 5 billion U.S. dollars. Felt [IV] at Westport and [III] at Dunedin. Felt in much of Canterbury and as far as Invercargill and Wellington. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After WEL. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}2.77 $M_{\theta\theta}$4.74 $M_{\phi\phi}$-7.50 $M_{r\theta}$4.44 $M_{\theta\phi}$-5.41 $M_{\theta r}$0.25 Best double couple: NP1:ϕ_s61.00000°,δ74.00000° ,λ150.00000°. NP2:ϕ_s160.00000°,δ61.00000°,λ18.00000°. Principal axes: T 9.3600,Plg32.0000°,Azm17.0000°; N 0.4800,Plg56.0000°,Azm216.0000° ; P -9.8400,Plg9.0000°,Azm113.0000° $M_9$9.60000×10^{17} Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}3.33 $M_{\theta\theta}$4.16 $M_{\phi\phi}$-7.49 $M_{r\theta}$3.02 $M_{\theta\phi}$-3.89 $M_{\theta r}$0.21 Best double couple: NP1:ϕ_s157.00000°,δ62.00000°,λ23.00000°. NP2:ϕ_s56.00000° ,δ70.00000°,λ149.00000°. Principal axes: T 7.3700,Plg36.0000°,Azm14.0000° ; N 1.4100,Plg54.0000°,Azm205.0000°; P -8.7700,Plg5.0000°,Azm108.0000° $M_0$8.20000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ48.00000°,λ155.00000°. NP2:ϕ_s160.00000°,δ72.00000°,λ45.00000°. Principal axes: T Plg44.0000°,Azm26.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000° ,Azm281.0000°

IDC Error ellipse: s-maj=13.6km s-min=10.3km az=52.0.

NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$4.41 $M_{\phi\phi}$-6.21 $M_{r\theta}$3.88 $M_{\theta\phi}$-6.02 $M_{\theta r}$-1.54 Best double couple: NP1:ϕ_s66.00000° ,δ71.00000°,λ158.00000°. NP2:ϕ_s163.00000°,δ69.00000°,λ20.00000°. Principal axes: T 9.4100,Plg28.0000°,Azm23.0000°; N -0.4800,Plg61.0000°,Azm206.0000° ; P -8.9300,Plg1.0000°,Azm114.0000° $M_9$9.20000×10^{17}

(706) Northern Sumatera

ISC	**VI**	**14 00 08 34.4–.35**	**1.78N–.03**	**99.07E–.03**	**29–2**	**5.2b,5.1s**	**861**	**1-177**
IDC	VI	14 00 08 28.1–.37	1.76N	99.10E	0	4.9,4.9s		**¶602897630**
KLM	VI	14 00 08 28.3	1.64N	98.95E	10	6.2s,5.8L		
BJI	VI	14 00 08 29.4	1.37N	98.90E	24	5.7s,5.4		
NEIC	VI	14 00 08 32.5–.20	1.83N	99.23E	17	5.5W,5.5W		
NEIC	VI	14 00 08 33.0–.00	1.63N	99.28E	23	5.5W,5.5W		
ISCJB	VI	14 00 08 33.0–.61	1.82N–.02	99.16E–.02	25–4	5.1s,5.0b		
MOS	VI	14 00 08 34.7–2.0	2.05N	99.20E	33	5.4b,5.1s		
GCMT	VI	14 00 08 35.2–.10	1.85N	99.11E	21–0	5.5W,5.1s		
DJA	VI	14 00 08 35.7–.10	2N–2.0	99E–2.0	10	6.1,5.8		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Sibolga and Tarutung and [III] at Medan. Also felt at Pematangsiantar. Felt [III] at Gunungsitoli, Nias. Felt [III] in the Kuala Lumpur area and at Subang Jaya; [II] at Kajang, Klang, Petaling Jaya and Shah Alam, Malaysia. Also felt at Kampung Gelugor, Sepang and Tanjong Karang. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.05 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$1.61 $M_{r\theta}$0.28 $M_{\theta\phi}$0.93 $M_{\theta r}$-0.31 Best double couple: NP1:ϕ_s240.00000°,δ78.00000°,λ-2.00000°. NP2:ϕ_s330.00000° ,δ88.00000°,λ-168.00000°. Principal axes: T 1.8900,Plg7.0000°,Azm104.0000° ; N 0.0800,Plg78.0000°,Azm339.0000°; P -1.9700,Plg10.0000°,Azm195.0000° $M_0$1.90000×10^{17} Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}0.20 $M_{\theta\theta}$-1.34 $M_{\phi\phi}$1.14 $M_{r\theta}$-0.15 $M_{\theta\phi}$0.68 $M_{\theta r}$0.34 Best double couple: NP1:ϕ_s60.00000° ,δ75.00000°,λ5.00000°. NP2:ϕ_s329.00000°,δ86.00000°,λ165.00000°. Principal axes: T 1.3900,Plg14.0000°,Azm283.0000°; N 0.1600,Plg74.0000°,Azm133.0000° ; P -1.5500,Plg8.0000°,Azm15.0000° $M_0$1.50000×10^{17}

NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-1.60 $M_{\phi\phi}$1.70 $M_{r\theta}$0.60 $M_{\theta\phi}$0.60 $M_{\theta r}$-0.20 Best double couple: NP1:ϕ_s326.00000° ,δ78.00000°,λ-165.00000°. NP2:ϕ_s233.00000°,δ76.00000°,λ-11.00000°. Principal axes: T 1.9000,Plg2.0000°,Azm99.0000°; N 0.1000,Plg71.0000°,Azm3.0000° ; P -1.9000,Plg17.0000°,Azm190.0000° $M_0$2.00000×10^{17}

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c160; s124,c250;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.03 $M_{\theta\theta}$-1.93±.03; $M_{\phi\phi}$1.86±.03; $M_{r\theta}$-0.73±.06; $M_{\theta\phi}$0.94±.02; $M_{\theta r}$-0.71±.06; Best double couple: NP1:ϕ_s239.00000°,δ85.00000°,λ25.00000°. NP2:ϕ_s147.00000° ,δ65.00000°,λ175.00000°. Principal axes: T 2.4050,Plg21.0000°,Azm106.0000° ; N -0.1200,Plg65.0000°,Azm249.0000°; P -2.2850,Plg14.0000°,Azm10.0000° $M_0$2.34500×10^{17}

(706) Northern Sumatera

ISC	**VI**	**14 03 01 30.7–.33**	**1.85N–.02**	**99.08E–.03**	**29–1**	**5.5s,5.3b**	**1254**	**1-177**
BJI	VI	14 03 01 24.2	1.39N	98.94E	23	6.0s,5.8		**¶16594456**
IDC	VI	14 03 01 25.6–.36	1.90N	99.13E	0	5.2s,5.2		
ISCJB	VI	14 03 01 29.1–.57	1.87N–.02	99.13E–.02	29–4	5.5s,5.2b		
GCMT	VI	14 03 01 29.8–.10	1.81N	99.11E	17–0	5.7W,5.2b		
KLM	VI	14 03 01 29.4	1.86N	99.25E	10	6.4s,5.8L		
NEIC	VI	14 03 01 29.0–.00	1.83N	99.13E	22	6.4s,5.8L		
NEIC	VI	14 03 01 29.8–.16	1.84N	99.11E	22	5.6W,5.6W		
DJA	VI	14 03 01 30.6–.10	2N–2.0	99E–2.0	10	5.9b,5.8		
MOS	VI	14 03 01 31.0–1.3	2.02N	99.15E	40	5.4b,5.4s		

ISC Event type fe.

IDC Error ellipse: s-maj=14.0km s-min=9.8km az=63.0.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=135.1.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c203; s125,c350;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.04 $M_{\theta\theta}$-3.44±.04; $M_{\phi\phi}$3.37±.04; $M_{r\theta}$-2.09±.13; $M_{\theta\phi}$1.52±.04; $M_{\theta r}$-0.79±.11; Best double couple: NP1:ϕ_s57.00000° ,δ87.00000°,λ-30.00000°. NP2:ϕ_s149.00000°,δ60.00000°,λ-177.00000°. Principal axes: T 4.1000,Plg19.0000°,Azm107.0000°; N 0.4540,Plg60.0000°,Azm232.0000° ; P -4.5580,Plg23.0000°,Azm8.0000° $M_0$4.32900×10^{17}

NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-2.90 $M_{\phi\phi}$2.90 $M_{r\theta}$1.00 $M_{\theta\phi}$1.30 $M_{\theta r}$-0.50 Best double couple: NP1:ϕ_s328.00000° ,δ80.00000°,λ-164.00000°. NP2:ϕ_s235.00000°,δ74.00000°,λ-9.00000°. Principal axes: T 3.2000,Plg4.0000°,Azm101.0000°; N 0.3000,Plg71.0000°,Azm357.0000° ; P -3.5000,Plg17.0000°,Azm192.0000° $M_0$3.00000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=46.0. Felt [IV] at Sibolga and Tarutung. Felt [III] at Gunungsitoli, Nias. Felt [III] at Subang Jaya and [II] at Ampang, Kampung Salak Tinggi, George Town, Kajang, Klang, Kuala Lumpur, Petaling Jaya and Shah Alam, Malaysia. Felt widely in the George Town-Melaka area. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}0.58 $M_{\theta\theta}$-2.93 $M_{\phi\phi}$2.35 $M_{r\theta}$0.35 $M_{\theta\phi}$1.20 $M_{\theta r}$0.11 Best double couple: NP1:ϕ_s327.00000°,δ83.00000°,λ180.00000°. NP2:ϕ_s57.00000° ,δ90.00000°,λ7.00000°. Principal axes: T 2.6200,Plg5.0000°,Azm282.0000° ; N 0.5900,Plg83.0000°,Azm58.0000°; P -3.2100,Plg5.0000°,Azm192.0000° $M_0$3.00000×10^{17} Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}0.54 $M_{\theta\theta}$-2.92 $M_{\phi\phi}$2.38 $M_{r\theta}$-0.59 $M_{\theta\phi}$0.47 $M_{\theta r}$-0.03 Best double couple: NP1:ϕ_s50.00000° ,δ85.00000°,λ-8.00000°. NP2:ϕ_s140.00000°,δ82.00000°,λ-175.00000°. Principal axes: T 2.4200,Plg2.0000°,Azm95.0000°; N 0.6300,Plg80.0000°,Azm200.0000° ; P -3.0500,Plg9.0000°,Azm5.0000° $M_0$2.80000×10^{17}

MOS Error ellipse: s-maj=7.4km s-min=4.1km az=108.6.

(282) South of Jawa

ISC	**VI**	**14 07 52 49.0–1.2**	**9.8S–.10**	**107.43E–.09**	**23**	**4.0b**	**21**	**2-70**
ISCJB	VI	14 07 52 46.0–.96	9.93S–.08	107.41E–.07	23	3.8b		**¶602004535**
DJA	VI	14 07 52 45.6–.50	10S–4.0	107E–3.0	10	5.5b,5.0b		
IDC	VI	14 07 53 21.4–5.4	8.03S	109.82E	276–65	3.9,3.3		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.6km az=40.8.

IDC Error ellipse: s-maj=146.0km s-min=11.5km az=44.0.

(229) Off east coast of Honshu

ISC	**VI**	**14 13 06 54.3–.36**	**37.78N–.03**	**143.57E–.03**	**30–2**	**5.7b,5.5s**	**1972**	**2-160**
NIED	VI	14 13 06 00	37.80N	143.60E	20	5.8W,5.5s		**¶16596682**
IDC	VI	14 13 06 50.0–.32	37.72N	143.60E	0	5.5,5.5s		
ISCJB	VI	14 13 06 51.0–.43	37.72N–.01	143.55E–.01	16–2	5.6b,5.5s		
GCMT	VI	14 13 06 51.5–.10	37.73N	143.58E	20–0	5.8W,5.5s		
JMA	VI	14 13 06 52.8–.20	37.81N	143.58E	50	6.0,5.5s		
NEIC	VI	14 13 06 52.2–.08	37.73N	143.51E	14	6.2,5.8W		
MOS	VI	14 13 06 53.3–.86	37.70N	143.51E	33	5.8b,5.8s		
NEIC	VI	14 13 06 55.0–.00	37.76N	143.62E	15	5.8b,5.8s		
BJI	VI	14 13 06 56.8	37.91N	142.92E	33	6.0b,5.9s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ45.00000°,λ-157.00000°. NP2:ϕ_s220.00000°,δ74.00000°,λ-48.00000°. $M_0$4.89000×10^{17}

IDC Error ellipse: s-maj=10.0km s-min=8.3km az=84.0.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=161.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c235; s146,c418;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.51±.05 $M_{\theta\theta}$-4.76±.05; $M_{\phi\phi}$6.27±.06; $M_{r\theta}$2.16±.12; $M_{\theta\phi}$1.33±.04; $M_{\theta r}$2.81±.13; Best double couple: NP1:ϕ_s228.00000° ,δ85.00000°,λ-34.00000°. NP2:ϕ_s322.00000°,δ57.00000°,λ-174.00000°. Principal axes: T 7.4900,Plg19.0000°,Azm280.0000°; N -1.6510,Plg56.0000°,Azm41.0000° ; P -5.8380,Plg27.0000°,Azm180.0000° $M_0$6.66400×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=146.0. Felt [II] at Tokyo. Also felt at Akiruno, Atsugi, Ichinoseki, Kasama, Kumagaya, Sagamihara, Yokosuka and Zushi. Recorded [3 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s71 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53 $M_{\theta\theta}$-5.82 $M_{\phi\phi}$6.35 $M_{r\theta}$1.71 $M_{\theta\phi}$1.07 $M_{\theta r}$1.65 Best double couple: NP1:ϕ_s320.00000°,δ69.00000°,λ-179.00000°. NP2:ϕ_s230.00000° ,δ89.00000°,λ-21.00000°. Principal axes: T 6.8900,Plg14.0000°,Azm277.0000° ; N -0.5400,Plg69.0000°,Azm46.0000°; P -6.3500,Plg16.0000°,Azm183.0000° $M_0$6.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s308.00000°,δ60.00000°,λ-174.00000°. NP2:ϕ_s215.00000°,δ85.00000°,λ-30.00000°. Principal axes: T Plg17.0000°,Azm265.0000°; N Plg0.0000°,Azm0.0000°; P Plg24.0000° ,Azm167.0000°

MOS Error ellipse: s-maj=5.8km s-min=4.2km az=110.2.

NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30 $M_{\theta\theta}$-3.40 $M_{\phi\phi}$4.70 $M_{r\theta}$2.90 $M_{\theta\phi}$0.60 $M_{\theta r}$-0.20 Best double couple: NP1:ϕ_s324.00000° ,δ66.00000°,λ-153.00000°. NP2:ϕ_s223.00000°,δ66.00000°,λ-25.00000°. Principal axes: T 4.7000,Plg0.0000°,Azm93.0000°; N 0.7000,Plg55.0000°,Azm3.0000° ; P -5.4000,Plg34.0000°,Azm184.0000° $M_0$5.00000×10^{17}

(164) Off east coast of South Island

ISC	**VI**	**14 18 27 26.1–.45**	**43.42S–.04**	**172.88E–.03**	**13**	**4.7b,3.9s**	**169**	**0-154**
BJI	VI	14 18 27 19.0	44.44S	173.32E	5	5.7b,5.3b		**¶16601814**
ISCJB	VI	14 18 27 21.9–.36	43.69S–.04	172.98E–.04	10	4.7b,3.9s		
WEL	VI	14 18 27 24.2–.13	43.65S	172.84E	5	5.2L,3.9s		
NEIC	VI	14 18 27 26.8–.48	43.64S	172.93E	35	5.0b,4.8W		
GCMT	VI	14 18 27 26.8–.50	43.67S	172.85E	13–2	4.9W,4.8W		
IDC	VI	14 18 27 34.3–6.2	43.45S	172.66E	75–51	4.4,4.2		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.3km az=146.7.

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.

NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=4.1km az=138.0. Felt at Christchurch. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}0.27 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.64 $M_{r\theta}$0.49 $M_{\theta\phi}$-0.70 $M_{\theta r}$-0.53 Best double couple: NP1:ϕ_s149.00000°,δ83.00000°,λ24.00000°. NP2:ϕ_s56.00000°,δ66.00000°,λ172.00000°. Principal axes: T 1.7700,Plg22.0000° ,Azm15.0000°; N 0.1100,Plg65.0000°,Azm165.0000°; P -1.8800,Plg11.0000°,Azm280.0000° $M_0$1.80000×10^{16}

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c11; s68,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.27±.12 $M_{\theta\theta}$2.21±.12; $M_{\phi\phi}$-1.93±.10; $M_{r\theta}$0.25±.27; $M_{\theta\phi}$-0.83±.11; $M_{\theta r}$1.45±.44; Best double couple: NP1:ϕ_s142.00000°,δ70.00000° ,λ-22.00000°. NP2:ϕ_s240.00000°,δ69.00000°,λ-159.00000°. Principal axes: T 2.3710,Plg1.0000°,Azm191.0000°; N 0.5490,Plg61.0000°,Azm282.0000° ; P -2.9110,Plg29.0000°,Azm101.0000° $M_0$2.64100×10^{16}

IDC Error ellipse: s-maj=34.4km s-min=17.3km az=80.0.

(353) Southern Iran

ISC	**VI**	**15 01 05 28.8–.28**	**27.95N–.02**	**57.66E–.02**	**33–1**	**5.3b,5.0s**	**1865**	**1-155**
ISN	VI	15 01 05 19.3–1.4	27.47N	58.25E	5–94	5.3L,5.0s		**¶17206144**
MOS	VI	15 01 05 27.1–.86	27.93N	57.58E	33	5.5b,4.9s		
ISCJB	VI	15 01 05 27.3–.12	27.89N–.02	57.63E–.01	35	5.3b,4.9s		
THR	VI	15 01 05 27.3–.75	27.94N	57.75E	18–6	5.7L,4.9s		
BJI	VI	15 01 05 28.4	28.00N	57.60E	35	5.2b,5.2s		
SFS	VI	15 01 05 29.0	27.98N	57.57E	40	5.3L,5.2s		
CSEM	VI	15 01 05 29.0–.08	28.02N	57.70E	33	5.3b,5.0s		
GCMT	VI	15 01 05 30.7–.10	27.71N	57.56E	41–0	5.5W,5.0s		
IDC	VI	15 01 05 30.3–1.5	27.99N	57.70E	46–13	5.2,5.1L		
OMAN	VI	15 01 05 30.9–20	27.87N	57.77E	25–0	5.2,5.1L		
NEIC	VI	15 01 05 30.7	27.78N	57.77E	34	5.7L,5.4b		
TEH	VI	15 01 05 30.7	27.78N	57.77E	34	5.3L,5.4b		
DSN	VI	15 01 05 31.3–.02	27.94N	57.65E	36	6.1L,5.2b		

ISC Event type fe.

ISN Error ellipse: s-maj=43.8km s-min=73.0km az=-1.0.

MOS Error ellipse: s-maj=5.7km s-min=3.3km az=121.1.

ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=7.8.

THR Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=11.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c196; s113,c226;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.70±.02 $M_{\theta\theta}$-1.06±.02; $M_{\phi\phi}$0.35±.02; $M_{r\theta}$1.08±.03; $M_{\theta\phi}$0.98±.02; $M_{\theta r}$0.67±.03; Best double couple: NP1:ϕ_s79.00000° ,δ74.00000°,λ47.00000°. NP2:ϕ_s333.00000°,δ45.00000°,λ157.00000°. Principal axes: T 1.9350,Plg44.0000°,Azm308.0000°; N -0.1600,Plg41.0000°,Azm94.0000° ; P -1.7730,Plg18.0000°,Azm199.0000° $M_0$1.85400×10^{17}
IDC Error ellipse: s-maj=10.6km s-min=8.6km az=159.0.
OMAN Error ellipse: s-maj=2.6km s-min=1.3km az=273.0.
NEIC Event type fe. Felt at Bandar Abbas and Kahnuj. After TEH.
DSN Error ellipse: s-maj=1.9km s-min=0.7km az=290.0.

(212) Bonin Islands region

ISC	**VI**	**15 04 41 05.3–.39**	**26.84N–.03**	**144.13E–.03**	**20–1**	**5.4b,5.1s**	**1327**	**2-164**
NIED	VI	15 04 41 00	26.90N	143.90E	8	5.4W,5.1s		**¶602897642**
ISCJB	VI	15 04 41 01.3–.64	26.87N–.02	144.09E–.01	2–3	5.4b,5.0s		
IDC	VI	15 04 41 02.2–.38	26.79N	144.15E	0	5.1,5.1b		
NEIC	VI	15 04 41 03.6–.09	26.79N	144.11E	10	5.5b,5.3W		
GCMT	VI	15 04 41 03.6–.10	26.86N	144.07E	12	5.5W,5.3W		
BJI	VI	15 04 41 03.8	26.88N	143.86E	10	5.4b,5.3s		
NEIC	VI	15 04 41 04.0–.00	26.80N	144.10E	12	5.4b,5.3s		
MOS	VI	15 04 41 04.5–.95	26.78N	144.18E	26	5.7b,5.0s		
JMA	VI	15 04 41 06.0–.10	26.91N	143.94E	105	5.2,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ33.00000°,λ-77.00000°. NP2:ϕ_s146.00000°,δ57.00000°,λ-98.00000°. $M_0$1.41000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.2km az=169.2.
IDC Error ellipse: s-maj=12.5km s-min=9.4km az=84.0.
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=2.3km az=148.0. Moment Tensor Solution. s47 Moment tensor: Scale 10^{16}Nm; M_{rr}-8.49 $M_{\theta\theta}$1.61 $M_{\phi\phi}$6.87 $M_{r\theta}$-1.04 $M_{\theta\phi}$-3.61 $M_{\theta r}$3.98 Best double couple: NP1:ϕ_s328.00000°,δ33.00000°,λ-99.00000°. NP2:ϕ_s158.00000° ,δ58.00000°,λ-84.00000°. Principal axes: T 9.6000,Plg13.0000°,Azm244.0000° ; N -0.1400,Plg5.0000°,Azm335.0000°; P -9.4600,Plg76.0000°,Azm86.0000° $M_0$9.50000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c161; s139,c267; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.09±.02 $M_{\theta\theta}$0.80±.02; $M_{\phi\phi}$1.29±.02; $M_{r\theta}$0.04±.06; $M_{\theta\phi}$-0.93±.02; $M_{\theta r}$0.60±.06; Best double couple: NP1:ϕ_s152.00000°,δ52.00000° ,λ-78.00000°. NP2:ϕ_s313.00000°,δ40.00000°,λ-105.00000°. Principal axes: T 2.0590,Plg6.0000°,Azm234.0000°; N 0.1460,Plg10.0000°,Azm325.0000° ; P -2.2060,Plg79.0000°,Azm111.0000° $M_0$2.13200×10^{17}
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.27 $M_{\theta\theta}$0.61 $M_{\phi\phi}$0.66 $M_{r\theta}$0.42 $M_{\theta\phi}$-0.47 $M_{\theta r}$0.37 Best double couple: NP1:ϕ_s298.00000° ,δ49.00000°,λ-115.00000°. NP2:ϕ_s154.00000°,δ47.00000°,λ-63.00000°. Principal axes: T 1.1100,Plg0.0000°,Azm46.0000°; N 0.3500,Plg18.0000°,Azm315.0000° ; P -1.4600,Plg71.0000°,Azm138.0000° $M_0$1.30000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.0km az=105.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

(192) New Britain region

ISC	**VI**	**16 00 03 37.6–.30**	**5.88S–.02**	**151.20E–.02**	**27–1**	**6.5s,6.0b**	**2088**	**2-166**
ISCJB	VI	16 00 03 33.2–.68	5.90S–.02	151.13E–.02	7–4	6.5s,5.9b		**¶602918643**
IDC	VI	16 00 03 33.5–.88	5.85S	151.19E	8–4	6.2,6.2s		
BJI	VI	16 00 03 34.5	6.00S	151.20E	20	6.4s,6.3		
GCMT	VI	16 00 03 35.8–.10	6.12S	151.21E	22	6.3W,6.3		
NEIC	VI	16 00 03 35.8–.11	5.93S	151.04E	16	6.5s,6.4W		
MOS	VI	16 00 03 36.9–1.3	5.88S	151.08E	35	6.4s,6.0b		
NEIC	VI	16 00 03 36.0–.00	5.99S	151.10E	25	6.4s,6.0b		
DJA	VI	16 00 03 41.9–.50	6S–2.0	151E–3.0	53–5	6.5b,6.3		
NEIC	VI	16 00 04 01.5–.00	5.55S	151.30E	26	6.5b,6.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=175.1.
IDC Error ellipse: s-maj=8.2km s-min=6.0km az=74.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c345; s147,c514;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.35±.02 $M_{\theta\theta}$-2.41±.01; $M_{\phi\phi}$2.06±.01; $M_{r\theta}$3.48±.03; $M_{\theta\phi}$0.56±.01; $M_{\theta r}$-1.25±.03; Best double couple: NP1:ϕ_s122.00000°,δ84.00000°,λ114.00000°. NP2:ϕ_s225.00000° ,δ25.00000°,λ15.00000°. Principal axes: T 3.2280,Plg46.0000°,Azm57.0000° ; N 1.7400,Plg24.0000°,Azm299.0000°; P -4.9700,Plg35.0000°,Azm192.0000° $M_0$4.09900×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.8km az=126.0. Felt at Kimbe. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$6.30000×10^{18} Moment Tensor Solution. s86 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.01 $M_{\theta\theta}$-0.76 $M_{\phi\phi}$0.77 $M_{r\theta}$2.34 $M_{\theta\phi}$-0.16 $M_{\theta r}$-0.53 Best double couple: NP1:ϕ_s107.00000°,δ87.00000°,λ103.00000°. NP2:ϕ_s209.00000° ,δ13.00000°,λ13.00000°. Principal axes: T 2.1700,Plg46.0000°,Azm30.0000° ; N 0.6000,Plg13.0000°,Azm286.0000°; P -2.7700,Plg41.0000°,Azm185.0000° $M_0$2.50000×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=4.9km az=96.4.
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{18}Nm; M_{rr}0.36 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$1.44 $M_{r\theta}$4.46 $M_{\theta\phi}$0.35 $M_{\theta r}$0.09 Best double couple: NP1:ϕ_s87.00000°,δ83.00000° ,λ84.00000°. NP2:ϕ_s311.00000°,δ9.00000°,λ134.00000°. Principal axes: T 3.9000,Plg51.0000°,Azm349.0000°; N 1.4200,Plg6.0000°,Azm87.0000° ; P -5.3200,Plg38.0000°,Azm182.0000° $M_0$4.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.08 $M_{\theta\theta}$-1.79 $M_{\phi\phi}$1.87 $M_{r\theta}$2.92 $M_{\theta\phi}$0.46 $M_{\theta r}$-2.05 Best double couple: NP1:ϕ_s225.00000° ,δ27.00000°,λ2.00000°. NP2:ϕ_s133.00000°,δ89.00000°,λ117.00000°. Principal axes: T 3.5200,Plg40.0000°,Azm68.0000°; N 0.8800,Plg27.0000°,Azm313.0000° ; P -4.4000,Plg38.0000°,Azm199.0000° $M_0$4.00000×10^{18}

(406) Central Mid-Atlantic Ridge

ISC	**VI**	**16 22 17 28.1–.34**	**7.15N–.06**	**35.89W–.07**	**10**	**4.7b,4.0s**	**179**	**13-131**
BJI	VI	16 22 17 25.9	7.20N	35.90W	10	5.6b,5.1s		**¶16628216**
ISCJB	VI	16 22 17 26.3–.22	7.24N–.05	35.90W–.04	10	4.6b,4.0s		
IDC	VI	16 22 17 26.8–.47	7.44N	36.02W	0	5.0L,4.4		
NEIC	VI	16 22 17 28.1–.19	7.25N	35.91W	10	4.9b,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=151.1.
IDC Error ellipse: s-maj=16.4km s-min=10.8km az=135.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=151.0.

(273) Southwest of Sumatera

ISC	**VI**	**17 01 15 36.2–.68**	**6.90S–.04**	**104.73E–.05**	**42–5**	**4.8b,3.7s**	**293**	**3-151**
IDC	VI	17 01 15 32.1–.41	6.41S	105.00E	0	4.7,4.7		**¶16621506**
BJI	VI	17 01 15 33.4	7.00S	104.60E	31	4.9b,4.7b		
ISCJB	VI	17 01 15 33.1–1.2	6.74S–.04	104.82E–.04	23–8	4.8b,3.7s		
NEIC	VI	17 01 15 34.8–.77	6.96S	104.68E	36–6	5.0b,3.7s		
KLM	VI	17 01 15 35.4	7.00S	104.64E	29	5.9s,4.9b		
MOS	VI	17 01 15 35.6–1.2	6.31S	105.20E	33	5.0b,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.7km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.0km az=42.6.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=5.5km az=220.0. Felt [II] at Bandar Lampung, Sumatra.
MOS Error ellipse: s-maj=10.9km s-min=5.6km az=117.2.

(558) Ethiopia

ISC	**VI**	**17 09 16 12.0–.47**	**13.26N–.03**	**41.69E–.03**	**7–2**	**5.4b,5.4s**	**1549**	**2-175**
BJI	VI	17 09 16 08.5	13.22N	41.59E	4	5.8s,5.6		**¶16621538**
DHMR	VI	17 09 16 08.7–1.3	13.30N	41.85E	12–12	5.5L,5.6		
ISCJB	VI	17 09 16 10.6–.16	13.25N–.02	41.71E–.01	11	5.3b,5.3s		
IDC	VI	17 09 16 10.3–.46	13.20N	41.71E	0	5.3s,5.3b		
MOS	VI	17 09 16 10.8–.85	13.30N	41.70E	10	5.7b,5.2s		
STR	VI	17 09 16 11.3–.00	13.32N	41.80E		5.4b,5.2s		
CSEM	VI	17 09 16 11.0–.11	13.26N	41.75E	2	5.6W,5.4s		
NEIC	VI	17 09 16 12.6–.20	13.30N	41.73E	10	5.6W,5.5b		
GCMT	VI	17 09 16 12.6–.10	13.46N	41.76E	12	5.6W,5.5b		
DSN	VI	17 09 16 12.0–.02	13.17N	42.14E	10	5.7b,5.5b		

ISC Event type fe.
DHMR Error ellipse: s-maj=7.2km s-min=11.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=16.0.
IDC Error ellipse: s-maj=12.8km s-min=8.7km az=57.0.
MOS Error ellipse: s-maj=7.7km s-min=3.4km az=95.4.

STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=16.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.5km az=219.0. Felt at Asmera, Eritrea, at Mek'ele, Ethiopia and at Al Hudaydah, Yemen. Moment Tensor Solution. s40 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$-0.37 $M_{\phi\phi}$0.28 $M_{r\theta}$-0.52 $M_{\theta\phi}$-2.57 $M_{\theta r}$-1.46 Best double couple: NP1:ϕ_s3.00000°,δ87.00000°,λ-29.00000°. NP2:ϕ_s95.00000°,δ61.00000° ,λ-176.00000°. Principal axes: T 2.7800,Plg18.0000°,Azm53.0000°; N 0.4300,Plg61.0000° ,Azm177.0000°; P -3.2100,Plg23.0000°,Azm315.0000° $M_0$3.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c186; s129,c337;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.62±.03 $M_{\theta\theta}$-0.86±.04; $M_{\phi\phi}$1.47±.04; $M_{r\theta}$-0.61±.09; $M_{\theta\phi}$-3.11±.03; $M_{\theta r}$0.17±.09; Best double couple: NP1: ϕ_s101.00000°,δ88.00000°,λ-169.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ-2.00000°. Principal axes: T 3.6820,Plg6.0000°,Azm235.0000°; N -0.6050,Plg79.0000°,Azm111.0000° ; P -3.0810,Plg9.0000°,Azm326.0000° $M_0$3.38200×10^{17}
DSN Error ellipse: s-maj=3.3km s-min=1.1km az=303.0.

(222) East of Kuril Islands

ISC	**VI**	**17 10 39 37.2–.25**	**48.54N–.03**	**156.19E–.03**	**41–1**	**5.3b,5.0s**	**1568**	**2-157**
KRSC	VI	17 10 39 32.5–3.2	48.39N	156.48E	101–47	6.0L,5.0s		**¶16621539**
ISCJB	VI	17 10 39 33.6–.61	48.50N–.02	156.32E–.02	29–4	5.3b,4.9s		
BJI	VI	17 10 39 33.5	48.45N	156.45E	40	5.3b,5.3b		
MOS	VI	17 10 39 35.2–1.0	48.55N	156.27E	40	5.5b,4.8s		
SKHL	VI	17 10 39 35.3–.70	48.42N	156.37E	52–8	6.4s,5.7b		
IDC	VI	17 10 39 40.0–.38	48.60N	156.13E	65–3	5.1,5.0		
GCMT	VI	17 10 39 39.8–.10	48.54N	156.33E	35–0	5.4W,5.0		
NEIC	VI	17 10 39 39.8–.08	48.60N	156.20E	65	5.3b,5.0		

ISC Event type fe.
KRSC Event type se. FELT [II] at lighthouse Krugliy.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=155.1.
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=2.7km az=84.9. Felt (III) Severo-Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (III) at Severo-Kurilsk(250 km).
IDC Error ellipse: s-maj=9.7km s-min=8.0km az=126.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s100,c169; s126,c226; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10±.03 $M_{\theta\theta}$0.28±.02; $M_{\phi\phi}$-1.38±.02; $M_{r\theta}$-0.56±.03; $M_{\theta\phi}$-0.35±.01; $M_{\theta r}$0.77±.03; Best double couple: NP1:ϕ_s345.00000°,δ64.00000° ,λ61.00000°. NP2:ϕ_s218.00000°,δ38.00000°,λ136.00000°. Principal axes: T 1.6230,Plg59.0000°,Azm212.0000°; N -0.0020,Plg26.0000°,Azm359.0000° ; P -1.6190,Plg14.0000°,Azm96.0000° $M_0$1.62100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=155.0. Felt [III] at Severo-Kuril'sk. Also felt at Petropavlovsk-Kamchatskiy.

(702) Balleny Islands region

ISC	**VI**	**18 05 56 30.8–.43**	**64.41S–.06**	**172.66E–.10**	**10**	**5.0b,4.5s**	**64**	**14-158**
IDC	VI	18 05 56 23.2–.89	63.75S	171.51E	0	4.6,4.5		**¶16631896**
ISCJB	VI	18 05 56 29.2–.41	64.28S–.04	172.5E–.30	10	4.9b,4.5s		
BJI	VI	18 05 56 31.0	64.30S	172.60E	10	5.5b,5.1s		
GCMT	VI	18 05 56 31.0–.10	63.46S	172.34E	12	5.4W,5.1s		
NEIC	VI	18 05 56 31.0–.44	64.30S	172.57E	10	5.1b,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=60.0km s-min=26.0km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=6.0km az=177.8.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c150; s109,c186; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.29±.02 $M_{\theta\theta}$1.66±.02; $M_{\phi\phi}$-1.37±.02; $M_{r\theta}$-0.83±.05; $M_{\theta\phi}$0.18±.02; $M_{\theta r}$-0.25±.05; Best double couple: NP1:ϕ_s222.00000°,δ85.00000° ,λ156.00000°. NP2:ϕ_s314.00000°,δ67.00000°,λ6.00000°. Principal axes: T 1.9850,Plg20.0000°,Azm175.0000°; N -0.5640,Plg66.0000°,Azm29.0000° ; P -1.4240,Plg12.0000°,Azm270.0000° $M_0$1.70400×10^{17}
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=7.1km az=87.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**18 11 31 05.9–.30**	**37.69N–.02**	**141.75E–.02**	**24–1**	**5.9b,5.4s**	**2161**	**1-161**
NIED	VI	18 11 31 00	37.60N	141.90E	20	5.7W,5.4s		**¶602897676**
BJI	VI	18 11 31 01.9	37.52N	141.64E	15	5.9s,5.8		
IDC	VI	18 11 31 02.5–.31	37.66N	141.75E	0	5.5,5.4		
JMA	VI	18 11 31 04.6–.10	37.62N	141.82E	28–2	6.0,5.4		
ISCJB	VI	18 11 31 05.1–.34	37.62N–.01	141.73E–.01	26–2	5.8b,5.5s		
GCMT	VI	18 11 31 05.9–.10	37.68N	141.76E	16–0	5.8W,5.5s		
NEIC	VI	18 11 31 05.9–.07	37.66N	141.66E	20	5.9b,5.7W		
MOS	VI	18 11 31 06.2–.85	37.69N	141.74E	37	6.0b,5.5s		
NEIC	VI	18 11 31 06.0–.00	37.61N	141.86E	11	6.0b,5.5s		
NEIC	VI	18 11 31 14.2–.00	37.73N	141.67E	10	6.0b,5.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ36.00000°,λ-161.00000°. NP2:ϕ_s141.00000°,δ79.00000°,λ-55.00000°. $M_0$3.74000×10^{17}
IDC Error ellipse: s-maj=10.6km s-min=8.0km az=81.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=155.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c237; s135,c362;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.89±.04 $M_{\theta\theta}$3.02±.03; $M_{\phi\phi}$-1.13±.03; $M_{r\theta}$-1.90±.10; $M_{\theta\phi}$-1.17±.02; $M_{\theta r}$5.86±.19; Best double couple: NP1: ϕ_s152.00000°,δ83.00000°,λ-68.00000°. NP2:ϕ_s259.00000°,δ23.00000°,λ-162.00000°. Principal axes: T 5.9550,Plg35.0000°,Azm224.0000°; N 1.4610,Plg22.0000°,Azm330.0000° ; P -7.4170,Plg47.0000°,Azm85.0000° $M_0$6.68600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=141.0. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.18 $M_{\theta\theta}$1.24 $M_{\phi\phi}$-0.06 $M_{r\theta}$-1.20 $M_{\theta\phi}$-0.28 $M_{\theta r}$2.85 Best double couple: NP1:ϕ_s271.00000°,δ15.00000°,λ-149.00000°. NP2:ϕ_s151.00000°,δ82.00000°,λ-77.00000°. Principal axes: T 2.9000,Plg36.0000° ,Azm229.0000°; N 0.7500,Plg13.0000°,Azm329.0000°; P -3.6400,Plg51.0000°,Azm75.0000° $M_0$3.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ11.00000°,λ-153.00000°. NP2:ϕ_s155.00000°,δ85.00000°,λ-80.00000°. Principal axes: T Plg39.0000°,Azm236.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm76.0000°
MOS Error ellipse: s-maj=5.6km s-min=4.0km az=105.4.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.38 $M_{\theta\theta}$1.71 $M_{\phi\phi}$-0.33 $M_{r\theta}$-0.55 $M_{\theta\phi}$-0.79 $M_{\theta r}$5.00 Best double couple: NP1:ϕ_s167.00000° ,δ85.00000°,λ-76.00000°. NP2:ϕ_s276.00000°,δ14.00000°,λ-160.00000°. Principal axes: T 4.5000,Plg39.0000°,Azm245.0000°; N 1.3800,Plg13.0000°,Azm346.0000° ; P -5.8800,Plg47.0000°,Azm91.0000° $M_0$5.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.81 $M_{\theta\theta}$2.53 $M_{\phi\phi}$-0.72 $M_{r\theta}$-0.42 $M_{\theta\phi}$-1.12 $M_{\theta r}$2.49 Best double couple: NP1:ϕ_s257.00000° ,δ42.00000°,λ-149.00000°. NP2:ϕ_s143.00000°,δ70.00000°,λ-52.00000°. Principal axes: T 3.2100,Plg16.0000°,Azm206.0000°; N 0.6200,Plg35.0000°,Azm308.0000° ; P -3.8300,Plg50.0000°,Azm95.0000° $M_0$3.50000×10^{17}

(207) Eastern New Guinea region

ISC	**VI**	**18 11 56 39.0–.27**	**6.26S–.03**	**146.70E–.05**	**50**	**5.2b,4.8s**	**248**	**3-152**
IDC	VI	18 11 56 31.4–.48	6.30S	146.76E	0	5.1,5.0		**¶16631901**
BJI	VI	18 11 56 36.9	6.11S	146.97E	58	5.6b,5.3s		
MOS	VI	18 11 56 36.5–.93	6.27S	146.64E	45	5.3b,4.7s		
ISCJB	VI	18 11 56 37.0–.18	6.30S–.02	146.59E–.04	50	5.2b,4.8s		
GCMT	VI	18 11 56 39.7–.30	6.39S	146.72E	47–2	5.1W,4.8s		
NEIC	VI	18 11 56 39.7–.56	6.32S	146.59E	60–5	5.2b,4.8s		
DJA	VI	18 11 56 42.3–.50	7S–3.0	147E–5.0	69–5	5.6,5.3b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c17; s74,c106;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.36±.40 $M_{\theta\theta}$-0.39±.24; $M_{\phi\phi}$1.75±.27; $M_{r\theta}$2.42±.18; $M_{\theta\phi}$-4.04±.15; $M_{\theta r}$-0.71±.21; Best double couple: NP1:ϕ_s282.00000°,δ82.00000°,λ-145.00000°. NP2:ϕ_s186.00000°,δ56.00000°,λ-10.00000°. Principal axes: T 5.4900,Plg17.0000°,Azm49.0000°; N -1.1280,Plg55.0000°,Azm294.0000° ; P -4.3620,Plg30.0000°,Azm150.0000° $M_0$4.92600×10^{16}
NEIC Event type fe. Felt at Kainantu and Lae.

(706) Northern Sumatera

ISC	**VI**	**18 11 57 59.6–1.2**	**1.77N–.03**	**99.06E–.03**	**17–7**	**4.8b,4.7s**	**342**	**1-147**
BJI	VI	18 11 57 54.6	1.31N	98.78E	15	5.2b,5.1s		**¶16631602**
ISCJB	VI	18 11 57 57.0–.19	1.81N–.02	99.00E–.03	10	4.7b,4.5s		
MOS	VI	18 11 57 59.6–1.7	1.77N	99.12E	33	5.0b,4.5s		
DJA	VI	18 11 58 00.7–.20	2N–2.0	99E–2.0	10	5.7b,5.4		

GCMT VI 18 11 58 01.0–.20 1.80N 99.12E 17–1 5.2W,5.4
KLM VI 18 11 58 02.0 1.80N 99.25E 20 6.1s,5.4L
NEIC VI 18 11 58 01.0–1.3 1.85N 99.11E 25–9 5.0W,4.9b
IDC VI 18 11 58 06.7–4.5 1.82N 99.14E 75–41 4.7,4.6s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=143.6.
MOS Error ellipse: s-maj=10.4km s-min=5.7km az=111.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c49; s100,c153; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.02 $M_{\theta\theta}$-0.58±.02; $M_{\phi\phi}$0.74±.02; $M_{r\theta}$-0.21±.05; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$-0.49±.07; Best double couple: NP1:ϕ_s36.00000°,δ86.00000° ,λ-40.00000°. NP2:ϕ_s129.00000°,δ51.00000°,λ-175.00000°. Principal axes: T 0.9560,Plg23.0000°,Azm89.0000°; N -0.2240,Plg50.0000°,Azm211.0000° ; P -0.7310,Plg30.0000°,Azm345.0000° $M_0$0.84400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=219.0. Felt [V] at Sibolga and [IV] at Sarulla and Tarutung. Felt [IV] at Petaling Jaya and [II] at Kuala Lumpur, Malaysia. Also felt at Balakong, Kajang-Sungai Chua, Klang, Nilai, Rawang, Shah Alam and Subang Jaya. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.32 $M_{\theta\theta}$-3.30 $M_{\phi\phi}$4.62 $M_{r\theta}$1.08 $M_{\theta\phi}$-1.09 $M_{\phi r}$-0.26 Best double couple: NP1:ϕ_s215.00000°,δ72.00000°,λ-13.00000°. NP2:ϕ_s310.00000°,δ77.00000°,λ-161.00000°. Principal axes: T 4.7900,Plg4.0000° ,Azm82.0000°; N -0.9200,Plg67.0000°,Azm343.0000°; P -3.8700,Plg22.0000° ,Azm173.0000° $M_0$4.40000×10^{16}
IDC Error ellipse: s-maj=19.3km s-min=10.5km az=51.0.

(274) Southern Sumatera

ISC	**VI**	**19 04 15 57.6–.23**	**3.24S–.03**	**101.36E–.03**	**48–1**	**5.7b,4.6s**	**1774**	**1-177**
BJI	VI	19 04 15 54.2	3.45S	101.28E	48	5.5b,5.3b		**¶16632964**
MOS	VI	19 04 15 54.9–.92	3.11S	101.45E	33	5.9b,4.6s		
ISCJB	VI	19 04 15 57.5–.30	3.21S–.02	101.36E–.02	56–2	5.7b,4.6s		
DJA	VI	19 04 15 58.5–.20	3S–2.0	101E–2.0	48–3	6.0,5.8b		
NEIC	VI	19 04 15 59.0–.45	3.25S	101.36E	57–3	5.6b,5.8b		
KLM	VI	19 04 15 58.7	3.48S	101.20E	38	6.5s,5.7L		
IDC	VI	19 04 15 58.5–.27	3.10S	101.37E	48–1	5.6,5.3		
GCMT	VI	19 04 15 59.0–.10	3.44S	101.12E	46–0	5.4W,5.3		

ISC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=3.9km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.2km az=40.7.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.6km az=222.0.
IDC Error ellipse: s-maj=7.7km s-min=5.5km az=44.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c175; s99,c187;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.16±.03 $M_{\theta\theta}$-0.67±.02; $M_{\phi\phi}$-0.49±.02; $M_{r\theta}$0.74±.02; $M_{\theta\phi}$0.68±.02; $M_{\phi r}$-0.50±.02; Best double couple: NP1: ϕ_s127.00000°,δ63.00000°,λ86.00000°. NP2:ϕ_s316.00000°,δ27.00000°,λ98.00000°. Principal axes: T 1.4580,Plg71.0000°,Azm27.0000°; N 0.1000,Plg4.0000°,Azm129.0000° ; P -1.5570,Plg18.0000°,Azm220.0000° $M_0$1.50800×10^{17}

(273) Southwest of Sumatera

ISC	**VI**	**19 13 44 36.4–.48**	**3.39S–.04**	**99.50E–.05**	**25–2**	**4.7b,3.9s**	**262**	**1-147**
BJI	VI	19 13 44 29.1	3.82S	99.65E	10	5.0b,4.8b		**¶16632978**
ISCJB	VI	19 13 44 33.8–.93	3.35S–.03	99.52E–.03	20–6	4.6b,3.9s		
NEIC	VI	19 13 44 33.9–2.4	3.34S	99.52E	9–14	4.9b,3.9s		
KLM	VI	19 13 44 35.4	3.25S	99.40E	13	5.5s,5.0b		
DJA	VI	19 13 44 36.7–.60	3S–2.0	100E–3.0	23–5	5.5b,5.1		
MOS	VI	19 13 44 36.6–1.0	3.30S	99.56E	40	5.0b,5.1		
IDC	VI	19 13 44 38.2–.67	3.34S	99.43E	35–4	4.5,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.7km az=139.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.0km az=55.0.
MOS Error ellipse: s-maj=11.4km s-min=5.7km az=105.1.
IDC Error ellipse: s-maj=14.7km s-min=9.2km az=56.0.

(297) Myanmar-China border region

ISC	**VI**	**20 10 16 52.6–.41**	**25.05N–.03**	**98.72E–.03**	**19–1**	**5.3b,4.5s**	**761**	**4-165**
BJI	VI	20 10 16 49.6	25.05N	98.69E	10	5.4L,5.3s		**¶16638798**
IDC	VI	20 10 16 49.1–.34	25.01N	98.77E	0	5.1,5.1		
ISCJB	VI	20 10 16 52.5–.12	25.06N–.02	98.71E–.02	32	5.2b,4.5s		
MOS	VI	20 10 16 52.6–.94	25.04N	98.77E	35	5.5b,4.5s		
BKK	VI	20 10 16 53.0–.30	25N–4.0	99E–6.0	10	5.7,5.5		
NEIC	VI	20 10 16 55.3–.60	25.08N	98.72E	39–5	5.3b,5.5		
GCMT	VI	20 10 16 55.3–.20	25.00N	98.80E	16–0	5.0W,5.5		

ISC Event type de.
IDC Error ellipse: s-maj=10.4km s-min=8.6km az=67.0.
ISCJB Event type de. Error ellipse: s-maj=2.8km s-min=2.3km az=19.0.
MOS Error ellipse: s-maj=5.9km s-min=3.5km az=117.2.
NEIC Event type de. Error ellipse: s-maj=3.5km s-min=3.0km az=215.0. Four people injured and moderate damage at Baoshan, China.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c65; s104,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.90±.18 $M_{\theta\theta}$-5.45±.13; $M_{\phi\phi}$2.55±.12; $M_{r\theta}$0.17±.31; $M_{\theta\phi}$0.99±.10; $M_{\phi r}$-0.04±.43; Best double couple: NP1:ϕ_s103.00000°,δ46.00000° ,λ98.00000°. NP2:ϕ_s271.00000°,δ44.00000°,λ82.00000°. Principal axes: T 2.9060,Plg84.0000°,Azm86.0000°; N 2.6690,Plg6.0000°,Azm277.0000° ; P -5.5750,Plg1.0000°,Azm187.0000° $M_0$4.24100×10^{16}

(184) Santa Cruz Islands

ISC	**VI**	**21 02 04 16.9–.57**	**11.48S–.03**	**165.50E–.03**	**19–2**	**5.8s,5.8b**	**1386**	**6-169**
IDC	VI	21 02 04 13.8–.31	11.49S	165.64E	0	5.6,5.6s		**¶16638815**
ISCJB	VI	21 02 04 13.2–.96	11.50S–.02	165.55E–.02	6–5	5.8s,5.7b		
BJI	VI	21 02 04 14.9	11.55S	165.50E	20	6.0b,5.8s		
GCMT	VI	21 02 04 15.9–.10	11.55S	165.36E	22–0	6.0W,5.8s		
NEIC	VI	21 02 04 15.0–.00	11.41S	165.34E	13	6.0W,5.8s		
NEIC	VI	21 02 04 15.9–.09	11.48S	165.55E	14	6.0W,5.9W		
MOS	VI	21 02 04 18.2–1.4	11.36S	165.50E	33	6.0b,5.7s		

ISC Event type se.
IDC Error ellipse: s-maj=9.9km s-min=8.9km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.9km az=152.7.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c314; s139,c497;Duration: 2s5 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.26±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$1.21±.01; $M_{r\theta}$0.01±.01; $M_{\theta\phi}$-0.34±.01; $M_{\phi r}$-0.10±.01; Best double couple: NP1:ϕ_s346.00000°,δ47.00000°,λ-89.00000°. NP2:ϕ_s164.00000° ,δ43.00000°,λ-92.00000°. Principal axes: T 1.3080,Plg2.0000°,Azm75.0000° ; N -0.0440,Plg1.0000°,Azm165.0000°; P -1.2640,Plg88.0000°,Azm280.0000° $M_0$1.28600×10^{18}
NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.20 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$1.24 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.35 $M_{\phi r}$-0.41 Best double couple: NP1:ϕ_s349.00000° ,δ54.00000°,λ-86.00000°. NP2:ϕ_s162.00000°,δ36.00000°,λ-95.00000°. Principal axes: T 1.3900,Plg8.0000°,Azm75.0000°; N -0.1200,Plg3.0000°,Azm166.0000° ; P -1.2700,Plg80.0000°,Azm276.0000° $M_0$1.30000×10^{18}
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.8km az=131.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s39 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.52 $M_{\theta\theta}$-3.19 $M_{\phi\phi}$7.71 $M_{r\theta}$1.08 $M_{\theta\phi}$-2.76 $M_{\phi r}$-2.05 Best double couple: NP1:ϕ_s327.00000°,δ59.00000°,λ-118.00000°. NP2: ϕ_s192.00000°,δ41.00000°,λ-53.00000°. Principal axes: T 8.7500,Plg10.0000°,Azm76.0000° ; N -3.6000,Plg23.0000°,Azm342.0000°; P -5.1500,Plg65.0000°,Azm187.0000° $M_0$7.60000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=5.8km az=111.4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 08 49 42.0–.40**	**35.65N–.03**	**141.38E–.03**	**25–2**	**5.5b,5.0s**	**1429**	**0-161**
NIED	VI	21 08 49 00	35.90N	141.50E	17	5.3W,5.0s		**¶603244174**
IDC	VI	21 08 49 37.8–.37	35.64N	141.45E	0	5.1,5.1		
BJI	VI	21 08 49 37.6	35.74N	141.34E	13	5.4s,5.3b		
JMA	VI	21 08 49 39.9–.20	35.76N	141.47E	21–2	5.5,5.3b		
NEIC	VI	21 08 49 40.5–.07	35.62N	141.31E	15	5.5b,5.4W		
GCMT	VI	21 08 49 40.5–.20	35.76N	141.32E	20–0	5.2W,5.4W		
MOS	VI	21 08 49 41.6–.85	35.69N	141.35E	32	5.6b,5.3s		
ISCJB	VI	21 08 49 41.0–.45	35.65N–.02	141.36E–.01	29–3	5.4b,5.0s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ18.00000°,λ-86.00000°. NP2:ϕ_s183.00000°,δ72.00000°,λ-91.00000°. $M_0$1.02000×10^{17}
JMA Event type fe.
NEIC Event type fe. Felt [II] at Tokyo. Also felt at Chiba, Narita, Tatebayashi and Yachimata. Recorded [3 JMA] in Chiba and Ibaraki. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.97 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$1.51 $M_{r\theta}$-0.04 $M_{\theta\phi}$0.70 $M_{\phi r}$-0.19 Best double couple: NP1: ϕ_s12.00000°,δ49.00000°,λ-97.00000°. NP2:ϕ_s203.00000°,δ41.00000°,λ-82.00000°. Principal axes: T 1.7400,Plg4.0000°,Azm107.0000°; N -0.7600,Plg5.0000°,Azm17.0000° ; P -0.9800,Plg83.0000°,Azm236.0000° $M_0$1.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c100; s96,c176;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.52±.19 $M_{\theta\theta}$0.08±.12; $M_{\phi\phi}$5.44±.14; $M_{r\theta}$2.17±.27; $M_{\theta\phi}$2.01±.09; $M_{\phi r}$5.54±.29; Best double couple: NP1:ϕ_s201.00000°,δ68.00000°,λ-88.00000°. NP2:ϕ_s16.00000° ,δ22.00000°,λ-95.00000°. Principal axes: T 8.6100,Plg23.0000°,Azm289.0000° ; N -0.5830,Plg2.0000°,Azm20.0000°; P -8.0300,Plg67.0000°,Azm114.0000° $M_0$8.32000×10^{16}
ISCJB Event type fe.

(178) Kermadec Islands

ISC	**VI**	**21 11 47 24.2–.35**	**30.69S–.05**	**177.31W–.06**	**33**	**4.9b,4.4s**	**198**	**2-163**
IDC	VI	21 11 47 23.5–4.0	30.26S	177.47W	25–25	4.5,4.5		**¶16640774**
ISCJB	VI	21 11 47 23.4–.25	30.74S–.03	177.53W–.06	33	4.9b,4.4s		
BJI	VI	21 11 47 23.6	30.40S	177.60W	20	5.5b,5.1b		
MOS	VI	21 11 47 24.0–1.2	30.25S	177.69W	31	5.2b,4.5s		
NEIC	VI	21 11 47 24.9–.32	30.53S	177.71W	35	4.9b,4.5s		
GCMT	VI	21 11 47 25.0–.30	30.33S	177.29W	33–1	5.1W,4.5s		

ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=3.1km az=24.4.
MOS Error ellipse: s-maj=14.5km s-min=11.2km az=80.9.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=6.5km az=122.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s73,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.44±.27 $M_{\theta\theta}$0.04±.18; $M_{\phi\phi}$-4.49±.17; $M_{r\theta}$0.78±.23; $M_{\theta\phi}$-2.02±.11; $M_{\phi r}$3.22±.19; Best double couple: NP1:ϕ_s16.00000°,δ62.00000° ,λ85.00000°. NP2:ϕ_s207.00000°,δ28.00000°,λ99.00000°. Principal axes: T 5.4830,Plg72.0000°,Azm275.0000°; N 0.7830,Plg4.0000°,Azm18.0000° ; P -6.2700,Plg17.0000°,Azm110.0000° $M_0$5.87700×10^{16}

(274) Southern Sumatera

ISC	**VI**	**21 16 25 07.6–.53**	**1.89S–.04**	**100.02E–.06**	**30–3**	**5.0b,4.0s**	**361**	**1-158**
KLM	VI	21 16 25 00.6	2.25S	99.40E	16	5.5s,5.0L		**¶16640781**
BJI	VI	21 16 25 03.6	2.40S	100.05E	40	5.0b,4.7b		
DJA	VI	21 16 25 05.8–.50	2S–4.0	100E–6.0	10	5.3b,5.3b		
MOS	VI	21 16 25 06.7–.98	1.78S	100.15E	33	5.1b,5.3b		
ISCJB	VI	21 16 25 07.9–.62	1.86S–.03	100.04E–.04	45–5	4.8b,4.1s		
IDC	VI	21 16 25 08.3–.64	1.82S	100.10E	31–4	4.8L,4.6		
NEIC	VI	21 16 25 09.0–.68	1.84S	100.15E	42–5	5.1b,4.6		

ISC Event type fe.
MOS Error ellipse: s-maj=11.9km s-min=5.6km az=109.4.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.9km az=147.4.
IDC Error ellipse: s-maj=15.0km s-min=8.8km az=58.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=59.0. Felt [III] at Padang and Padangpanjang.

(228) Near east coast of eastern Honshu

ISC	**VI**	**22 14 28 57.7–.42**	**40.01N–.03**	**142.91E–.03**	**34–1**	**5.3s,5.2b**	**1221**	**1-161**
NIED	VI	22 14 28 00	40.10N	142.90E	32	5.6W,5.2b		**¶16644204**
IDC	VI	22 14 28 52.7–.41	40.03N	142.91E	0	5.3,5.3s		
JMA	VI	22 14 28 55.7–.20	40.06N	142.91E	23–2	5.5,5.3s		
ISCJB	VI	22 14 28 57.0–.29	40.04N–.02	142.89E–.02	37–2	5.4s,5.2b		
BJI	VI	22 14 28 56.2	39.97N	142.79E	41	5.6s,5.5b		
MOS	VI	22 14 28 57.7–.82	40.24N	142.75E	34	5.6s,5.5b		
NEIC	VI	22 14 28 59.2–.36	40.05N	142.78E	43–3	5.3s,5.2b		
GCMT	VI	22 14 28 59.2–.10	40.13N	142.89E	32–0	5.7W,5.2b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s31.00000°,δ68.00000°,λ102.00000°. $M_0$2.74000×10^{17}
IDC Error ellipse: s-maj=14.0km s-min=10.6km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=151.9.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=104.9.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=142.0. Felt at Sendai. Recorded [3 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c199; s128,c301;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.28±.04 $M_{\theta\theta}$-0.12±.03; $M_{\phi\phi}$-2.16±.03; $M_{r\theta}$1.35±.05; $M_{\theta\phi}$-0.52±.02; $M_{\phi r}$2.75±.06; Best double couple: NP1:ϕ_s24.00000° ,δ72.00000°,λ96.00000°. NP2:ϕ_s184.00000°,δ19.00000°,λ72.00000°. Principal axes: T 3.8520,Plg63.0000°,Azm303.0000°; N -0.0610,Plg6.0000°,Azm202.0000° ; P -3.7880,Plg27.0000°,Azm109.0000° $M_0$3.82000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**VI**	**22 21 50 51.6–.30**	**39.98N–.02**	**142.46E–.02**	**32–1**	**6.7s,6.1b**	**2470**	**0-163**
NIED	VI	22 21 50 00	39.90N	142.60E	41	6.7W,6.1b		**¶16645786**
BJI	VI	22 21 50 46.6	39.85N	142.60E	20	7.0s,6.9		
NEIC	VI	22 21 50 48.0–.00	40.08N	142.77E	35	7.0s,6.9		
MOS	VI	22 21 50 49.9–.90	40.04N	142.35E	24	6.9s,6.3b		
JMA	VI	22 21 50 50.7	39.95N	142.59E	36–1	6.9,6.3b		
ISCJB	VI	22 21 50 52.8–.21	39.99N–.01	142.28E–.01	48–1	6.7s,6.1b		
GCMT	VI	22 21 50 52.3–.00	39.99N	142.51E	41–0	6.7W,6.1b		
NEIC	VI	22 21 50 52.4–.08	39.96N	142.21E	33	6.7s,6.7W		
IDC	VI	22 21 50 55.0–.79	39.96N	142.37E	60–6	6.7s,6.7		
NEIC	VI	22 21 51 11.2–.00	40.16N	142.30E	36	6.7s,6.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ20.00000°,λ92.00000°. NP2:ϕ_s14.00000°,δ70.00000°,λ89.00000°. $M_0$1.23000×10^{19}
NEIC Event type se. Moment Tensor Solution. s99 Moment tensor: Scale 10^{19}Nm; M_{rr}0.94 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$-0.90 $M_{r\theta}$0.26 $M_{\theta\phi}$-0.13 $M_{\phi r}$1.17 Best double couple: NP1:ϕ_s12.00000° ,δ71.00000°,λ92.00000°. NP2:ϕ_s185.00000°,δ19.00000°,λ84.00000°. Principal axes: T 1.5200,Plg63.0000°,Azm284.0000°; N -0.0200,Plg1.0000°,Azm190.0000° ; P -1.5000,Plg25.0000°,Azm100.0000° $M_0$1.50000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=3.4km az=101.1. Fault plane solution: P-wave C169, D85 . Felt (II) at Yuzhno-Kuril'sk, Malokuril'skoye. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s360.00000°,δ84.00000°,λ90.00000°. NP2: ϕ_s180.00000°,δ6.00000°,λ90.00000°. Principal axes: T Plg51.0000°,Azm270.0000° ; N Plg0.0000°,Azm180.0000°; P Plg39.0000°,Azm90.0000° $M_0$4.00000×10^{19}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s346.00000° ,δ62.00000°,λ81.00000°. NP2:ϕ_s186.00000°,δ29.00000°,λ108.00000°. Principal axes: T Plg71.0000°,Azm235.0000°; N Plg8.0000°,Azm350.0000°; P Plg17.0000°,Azm83.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=153.9.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c373; s141,c650;Duration: 5s6 Moment tensor: Scale 10^{19} Nm; M_{rr}1.05±.01 $M_{\theta\theta}$0.04±.00; $M_{\phi\phi}$-1.09±.00; $M_{r\theta}$0.12±.01; $M_{\theta\phi}$-0.03±.00; $M_{\phi r}$1.12±.01; Best double couple: NP1:ϕ_s5.00000°,δ68.00000°,λ93.00000°. NP2:ϕ_s178.00000°,δ22.00000° ,λ83.00000°. Principal axes: T 1.5360,Plg67.0000°,Azm280.0000°; N 0.0420,Plg2.0000° ,Azm184.0000°; P -1.5730,Plg23.0000°,Azm93.0000° $M_0$1.55400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=150.0. Felt [V] at Misawa and [II] at Morioka. Also felt at Ichinoseki, Kawasaki, Kizukuri, Narita, Ota, Sendai, Tokyo and Yokohama. Felt [II] at Sapporo, Hokkaido. Also felt at Obihiro. Recorded [5L JMA] in Aomori and Iwate, Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ25.00000°,λ59.00000°. NP2:ϕ_s10.00000° ,δ69.00000°,λ103.00000°. Principal axes: T 0.9800,Plg63.0000°,Azm301.0000° ; N 0.1200,Plg12.0000°,Azm185.0000°; P -1.1000,Plg23.0000°,Azm90.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ10.00000° ,λ90.00000°. NP2:ϕ_s5.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000° ,Azm275.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm95.0000°
IDC Error ellipse: s-maj=7.3km s-min=5.7km az=100.0.
NEIC Event type se. Moment Tensor Solution. s146 Moment tensor: Scale 10^{19}Nm; M_{rr}1.00 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$-0.99 $M_{r\theta}$0.14 $M_{\theta\phi}$-0.06 $M_{\phi r}$1.19 Best double couple: NP1:ϕ_s181.00000° ,δ20.00000°,λ86.00000°. NP2:ϕ_s6.00000°,δ70.00000°,λ92.00000°. Principal axes: T 1.5600,Plg65.0000°,Azm279.0000°; N -0.0100,Plg1.0000°,Azm185.0000° ; P -1.5600,Plg25.0000°,Azm95.0000° $M_0$1.60000×10^{19}

(169) Samoa Islands region

ISC	**VI**	**23 04 33 49.0–.33**	**15.03S–.07**	**173.29W–.06**	**30**	**5.0b,5.0s**	**620**	**2-175**
IDC	VI	23 04 33 44.6–.59	15.11S	173.47W	0	4.9s,4.9		**¶16645796**
GCMT	VI	23 04 33 46.2–.10	14.85S	173.13W	12–0	5.4W,4.9		
NEIC	VI	23 04 33 46.2–.19	14.97S	173.50W	10	5.1b,4.9		
ISCJB	VI	23 04 33 47.6–.24	15.05S–.06	173.28W–.05	30	5.0s,5.0b		
BJI	VI	23 04 33 48.2	15.19S	172.63W	57	5.6b,5.3s		
MOS	VI	23 04 33 49.8–1.1	14.89S	173.28W	37	5.2b,5.0s		

ISC Event type se.

IDC Error ellipse: s-maj=24.6km s-min=16.9km az=131.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c142; s128,c232; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.23±.02 $M_{\theta\theta}$0.72±.02; $M_{\phi\phi}$-0.94±.02; $M_{r\theta}$0.62±.07; $M_{\theta\phi}$0.94±.02; $M_{\phi r}$0.90±.09; Best double couple: NP1:ϕ_s19.00000°,δ82.00000° ,λ140.00000°. NP2:ϕ_s115.00000°,δ51.00000°,λ10.00000°. Principal axes: T 1.7600,Plg33.0000°,Azm329.0000°; N -0.1730,Plg49.0000°,Azm189.0000° ; P -1.5870,Plg21.0000°,Azm73.0000° $M_0$1.67400×10^{17}
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.0km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.1km az=164.1.
MOS Error ellipse: s-maj=14.3km s-min=9.3km az=65.2.

(228) Near east coast of eastern Honshu

ISC	**VI**	**23 10 35 01.6–.26**	**38.50N–.03**	**141.66E–.03**	**53–1**	**5.3b,4.6s**	**1326**	**0-160**
MOS	VI	23 10 34 57.8–.85	38.47N	141.44E	31	5.6b,4.6s		**¶16646161**
BJI	VI	23 10 34 57.8	38.37N	141.89E	54	5.3b,5.1b		
NEIC	VI	23 10 35 00.2–.09	38.48N	141.44E	35	5.3b,5.1b		
NIED	VI	23 10 35 00	38.50N	141.60E	59	5.3W,5.1b		
GCMT	VI	23 10 35 00.2–.10	38.55N	141.62E	57–0	5.3W,5.1b		
IDC	VI	23 10 35 01.8–.35	38.47N	141.52E	54–2	5.1,4.9		
JMA	VI	23 10 35 02.2	38.47N	141.61E	57–1	5.3,4.9		
ISCJB	VI	23 10 35 02.3–.19	38.51N–.02	141.49E–.02	67–1	5.2b,4.9		

ISC Event type fe.
NEIC Event type fe. Felt at Chiba, Ichinoseki and Morioka. Recorded [4 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ69.00000°,λ99.00000°. $M_0$9.60000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c158; s113,c220;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.92±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.82±.01; $M_{r\theta}$0.33±.01; $M_{\theta\phi}$-0.24±.01; $M_{\phi r}$0.64±.01; Best double couple: NP1:ϕ_s23.00000°,δ64.00000°,λ95.00000°. NP2:ϕ_s191.00000° ,δ26.00000°,λ79.00000°. Principal axes: T 1.1770,Plg70.0000°,Azm304.0000° ; N -0.0360,Plg5.0000°,Azm201.0000°; P -1.1410,Plg19.0000°,Azm109.0000° $M_0$1.15900×10^{17}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s35.00000°,δ75.00000°,λ95.00000°. NP2:ϕ_s195.00000°,δ16.00000°,λ70.00000°. Principal axes: T Plg59.0000°,Azm313.0000°; N Plg5.0000°,Azm214.0000°; P Plg30.0000° ,Azm121.0000°
ISCJB Event type fe.

(406) Central Mid-Atlantic Ridge

ISC	**VI**	**24 02 06 51.6–.44**	**0.6N–.10**	**25.47W–.08**	**12**	**4.9b,4.3s**	**293**	**12-152**
IDC	VI	24 02 06 49.7–.66	0.65N	25.46W	0	4.4,4.2b		**¶16681337**
ISCJB	VI	24 02 06 50.7–.40	0.88N–.09	25.54W–.04	10	4.8b,4.2s		
BJI	VI	24 02 06 51.0	0.70N	25.50W	10	5.6b,5.3b		
GCMT	VI	24 02 06 51.5–.20	0.68N	25.44W	12	5.2W,5.3b		
NEIC	VI	24 02 06 51.5–.22	0.60N	25.39W	10	4.9b,5.3b		

ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=15.8km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=5.3km az=168.9.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c45; s74,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.50±.17 $M_{\theta\theta}$-0.53±.18; $M_{\phi\phi}$6.03±.14; $M_{r\theta}$-2.89±.70; $M_{\theta\phi}$0.58±.14; $M_{\phi r}$-2.26±.46; Best double couple: NP1:ϕ_s27.00000°,δ61.00000° ,λ-66.00000°. NP2:ϕ_s165.00000°,δ37.00000°,λ-126.00000°. Principal axes: T 6.6440,Plg13.0000°,Azm100.0000°; N 0.4360,Plg21.0000°,Azm195.0000° ; P -7.0820,Plg66.0000°,Azm340.0000° $M_0$6.86300×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.1km az=160.0.

(9) Fox Islands

ISC	**VI**	**24 03 09 38.9–.24**	**51.98N–.03**	**171.82W–.02**	**50–1**	**7.0s,6.9b**	**3051**	**1-161**
IDC	VI	24 03 09 37.1–1.4	52.02N	171.76W	32–9	6.9,6.9s		**¶602897721**
BJI	VI	24 03 09 37.8	51.85N	171.90W	60	7.3s,7.1b		
MOS	VI	24 03 09 37.8–.88	52.10N	171.78W	52	7.1b,7.0s		
ISCJB	VI	24 03 09 38.4–.25	52.00N–.01	171.71W–.01	58–2	7.0s,6.9b		
GCMT	VI	24 03 09 39.5–.10	52.09N	171.77W	74–0	7.3W,6.9b		
NEIC	VI	24 03 09 39.5–.08	52.05N	171.84W	52	7.4,7.3W		
NEIC	VI	24 03 09 39.0–.00	51.81N	171.67W	70	7.4,7.3W		

ISC Event type fe.
IDC Error ellipse: s-maj=12.2km s-min=8.1km az=177.0.
MOS Error ellipse: s-maj=5.6km s-min=4.4km az=88.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ84.00000°,λ90.00000°. NP2: ϕ_s270.00000°,δ6.00000°,λ90.00000°. Principal axes: T Plg51.0000°,Azm0.0000° ; N Plg0.0000°,Azm270.0000°; P Plg39.0000°,Azm180.0000° $M_0$1.60000×10^{20}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.3km az=179.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s147,c411; s146,c741;Duration: 10s3 Moment tensor: Scale 10^{19} Nm; M_{rr}-0.27±.03 $M_{\theta\theta}$1.71±.02; $M_{\phi\phi}$-1.44±.02; $M_{r\theta}$9.22±.10; $M_{\theta\phi}$1.84±.01; $M_{\phi r}$1.11±.03; Best double couple: NP1:ϕ_s265.00000°,δ87.00000°,λ-81.00000°. NP2:ϕ_s15.00000° ,δ10.00000°,λ-160.00000°. Principal axes: T 10.3700,Plg41.0000°,Azm347.0000° ; N -1.7940,Plg9.0000°,Azm85.0000°; P -8.5770,Plg48.0000°,Azm185.0000° $M_0$9.47400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.5km az=171.0. Felt [VI] at Nikolski and [II] at Dutch Harbor. Also felt at Adak, Anchorage, Cold Bay, Elmendorf AFB, Homer and Unalaska. Tsunami generated with wave heights [peak-to-trough] recorded at the following selected tide stations: 10 cm at Nikolski, 9 cm at Saint Paul, 6 cm on Adak and 4 cm on Akutan; 4 cm on Midway Island; 6 cm at Hilo and 4 cm at Nawiliwili, Hawaii. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.80000×10^{20} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s85.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm355.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm175.0000°
NEIC Event type se. Moment Tensor Solution. s132 Moment tensor: Scale 10^{19}Nm; M_{rr}0.70 $M_{\theta\theta}$0.95 $M_{\phi\phi}$-1.64 $M_{r\theta}$9.05 $M_{\theta\phi}$1.65 $M_{\phi r}$2.01 Best double couple: NP1:ϕ_s260.00000° ,δ89.00000°,λ-83.00000°. NP2:ϕ_s359.00000°,δ7.00000°,λ-170.00000°. Principal axes: T 10.4000,Plg43.0000°,Azm343.0000°; N -2.2000,Plg6.0000°,Azm79.0000° ; P -8.2000,Plg45.0000°,Azm176.0000° $M_0$9.50000×10^{19}

(7) Andreanof Islands

ISC	**VI**	**24 04 20 48.9–.62**	**51.90N–.08**	**171.78W–.03**	**48–5**	**4.8b**	**632**	**1-153**
MOS	VI	24 04 20 47.7–.92	52.08N	171.86W	46	5.0b		**¶16652959**
BJI	VI	24 04 20 48.7	52.61N	172.45W	32	5.6s,5.5		
ISCJB	VI	24 04 20 49.9–.32	52.01N–.03	171.81W–.02	70–2	4.7b,5.5		
NEIC	VI	24 04 20 50.4	51.69N	171.70W	44	4.7b,4.3L		
IDC	VI	24 04 20 52.4–3.0	52.07N	171.86W	74–25	5.3s,5.3		

ISC Event type se.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=90.9.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.1km az=174.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=17.6km s-min=10.1km az=173.0.

(429) Mid-Indian Ridge

ISC	**VI**	**24 05 12 10.1–.33**	**12.72S–.07**	**66.30E–.07**	**10**	**4.8b**	**620**	**8-161**
ISCJB	VI	24 05 12 08.4–.27	12.68S–.05	66.36E–.04	10	4.7b		**¶16652961**
BJI	VI	24 05 12 08.3	12.70S	66.30E	10	5.7b,5.6s		
MOS	VI	24 05 12 08.5–1.0	12.62S	66.40E	10	5.2b,5.6s		
IDC	VI	24 05 12 08.2–.42	12.73S	66.40E	0	4.4,4.4		
NEIC	VI	24 05 12 10.2–.17	12.72S	66.35E	10	5.1b,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.0km az=177.1.
MOS Error ellipse: s-maj=10.0km s-min=5.3km az=100.5.
IDC Error ellipse: s-maj=12.2km s-min=11.9km az=8.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.9km az=215.0.

(429) Mid-Indian Ridge

ISC	**VI**	**24 05 18 50.3–.65**	**12.70S–.06**	**66.22E–.06**	**17–3**	**5.0b**	**752**	**8-161**
BJI	VI	24 05 18 43.4	12.96S	65.77E	10	5.5b,5.5s		**¶16652962**
ISCJB	VI	24 05 18 47.4–.22	12.65S–.04	66.24E–.03	10	4.9b,5.5s		
MOS	VI	24 05 18 47.2–.91	12.64S	66.32E	10	5.2b,5.5s		
IDC	VI	24 05 18 47.0–.42	12.73S	66.38E	0	4.7,4.7		
NEIC	VI	24 05 18 49.0–.15	12.70S	66.25E	10	5.3b,4.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.5km az=5.6.
MOS Error ellipse: s-maj=8.3km s-min=5.0km az=100.1.
IDC Error ellipse: s-maj=12.2km s-min=11.8km az=35.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=187.0.

(184) Santa Cruz Islands

ISC	**VI**	**24 06 33 05.0–.36**	**10.93S–.04**	**165.98E–.04**	**50–3**	**5.7b,5.2s**	**1200**	**6-170**
ISCJB	VI	24 06 33 01.9–.93	10.94S–.02	165.93E–.02	33–8	5.6b,5.1s		**¶16652966**
MOS	VI	24 06 33 02.8–.89	10.77S	165.85E	36	5.8b,5.3s		
IDC	VI	24 06 33 04.7–.49	10.94S	165.93E	46–3	5.4,5.2		
BJI	VI	24 06 33 06.5	10.49S	165.83E	60	5.7b,5.5b		
GCMT	VI	24 06 33 07.8–.40	10.69S	165.50E	51–1	6.1W,5.5b		
NEIC	VI	24 06 33 07.8–.51	10.93S	165.93E	72–4	5.6b,5.5b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=3.1km az=38.8.
MOS Error ellipse: s-maj=7.0km s-min=5.7km az=87.7.
IDC Error ellipse: s-maj=12.5km s-min=9.9km az=100.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s31,c38; s49,c71;Duration: 2s6 Moment tensor: Scale 10^{18}Nm; M_{rr}1.78±.10 $M_{\theta\theta}$-0.69±.06; $M_{\phi\phi}$-1.09±.05; $M_{r\theta}$-0.27±.04; $M_{\theta\phi}$0.34±.03; $M_{\phi r}$0.19±.06; Best double couple: NP1: ϕ_s326.00000°,δ51.00000°,λ86.00000°. NP2:ϕ_s153.00000°,δ40.00000°,λ95.00000°. Principal axes: T 1.8170,Plg84.0000°,Azm209.0000°; N -0.5070,Plg3.0000°,Azm329.0000° ; P -1.3090,Plg6.0000°,Azm59.0000° $M_0$1.56300×10^{18}
NEIC Event type se. Error ellipse: s-maj=2.4km s-min=2.2km az=131.0.

(177) Kermadec Islands region

ISC	**VI**	**24 13 18 18.1–.41**	**31.64S–.05**	**179.15W–.08**	**35**	**4.7b**	**190**	**3-171**
ISCJB	VI	24 13 18 17.1–.24	31.71S–.02	179.24W–.06	33	4.7b,3.6s		**¶16681338**
NEIC	VI	24 13 18 17.8–.38	31.63S	179.11W	35	5.0b,3.6s		
BJI	VI	24 13 18 17.6	31.70S	179.20W	37	5.6b,5.3s		
IDC	VI	24 13 18 28.7–1.2	31.49S	179.22W	131–9	4.6,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=2.9km az=15.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.6km az=104.0.
IDC Error ellipse: s-maj=14.8km s-min=11.4km az=140.0.

(224) Hokkaido region

ISC	**VI**	**24 17 39 26.4–.29**	**42.01N–.03**	**142.66E–.02**	**53–2**	**5.5b,4.8s**	**1644**	**0-160**
NIED	VI	24 17 39 00	42.00N	142.70E	56	5.4W,4.8s		**¶16679649**
BJI	VI	24 17 39 20.3	41.86N	142.97E	39	5.5b,5.3b		
MOS	VI	24 17 39 24.9–.99	42.07N	142.61E	54	5.8b,4.8s		
ISCJB	VI	24 17 39 26.1–.18	42.00N–.01	142.61E–.02	61–1	5.4b,4.8s		
JMA	VI	24 17 39 26.4–.10	41.97N	142.72E	57–2	5.4,4.8s		
NEIC	VI	24 17 39 27.2–.09	42.05N	142.55E	58	5.5W,4.8s		
GCMT	VI	24 17 39 27.2–.10	42.00N	142.77E	54–0	5.4W,4.8s		
IDC	VI	24 17 39 27.2–.54	42.03N	142.66E	58–4	5.3,5.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ85.00000°. $M_0$1.47000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=98.6.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=147.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ83.00000°,λ90.00000°. NP2: ϕ_s201.00000°,δ7.00000°,λ90.00000°. Principal axes: T Plg52.0000°,Azm291.0000° ; N Plg0.0000°,Azm21.0000°; P Plg38.0000°,Azm111.0000°
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=149.0. Felt at Kitahiroshima, Obihiro and Sapporo. Also felt at Misawa, Honshu. Recorded [3 JMA] in southern Hokkaido and in Aomori, Honshu. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}1.16 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-0.57 $M_{r\theta}$0.96 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.18 Best double couple: NP1:ϕ_s234.00000° ,δ22.00000°,λ104.00000°. NP2:ϕ_s40.00000°,δ69.00000°,λ85.00000°. Principal axes: T 1.8500,Plg66.0000°,Azm301.0000°; N 0.4200,Plg5.0000°,Azm42.0000° ; P -2.2700,Plg24.0000°,Azm134.0000° $M_0$2.10000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c175; s106,c183; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.44±.03 $M_{\theta\theta}$-0.27±.02; $M_{\phi\phi}$-1.18±.02; $M_{r\theta}$0.39±.02; $M_{\theta\phi}$-0.53±.02; $M_{\phi r}$0.88±.02; Best double couple: NP1:ϕ_s24.00000°,δ62.00000° ,λ90.00000°. NP2:ϕ_s205.00000°,δ28.00000°,λ91.00000°. Principal axes: T 1.7340,Plg73.0000°,Azm294.0000°; N -0.0230,Plg0.0000°,Azm24.0000° ; P -1.7180,Plg17.0000°,Azm115.0000° $M_0$1.72600×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=8.5km az=87.0.

(325) Qinghai

ISC	**VI**	**26 07 48 16.9–.36**	**32.41N–.03**	**95.96E–.02**	**30–2**	**5.2b,4.7s**	**792**	**5-158**
IDC	VI	26 07 48 11.9–.42	32.41N	95.97E	0	5.0,5.0		**¶16682702**
ISCJB	VI	26 07 48 15.2–.09	32.41N–.02	95.92E–.02	31	5.2b,4.7s		
MOS	VI	26 07 48 15.8–.83	32.42N	95.97E	36	5.4b,4.7s		
BJI	VI	26 07 48 15.4	32.40N	96.05E	20	5.5b,5.3s		
GCMT	VI	26 07 48 16.8–.10	32.33N	95.98E	16–0	5.3W,5.3s		
NEIC	VI	26 07 48 16.8–.10	32.45N	95.95E	29	5.3b,5.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=14.2km s-min=10.2km az=31.0.
ISCJB Event type de. Error ellipse: s-maj=2.5km s-min=1.8km az=42.6.
MOS Error ellipse: s-maj=5.7km s-min=3.4km az=120.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c110; s103,c192; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.45±.02 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.36±.04; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.29±.05; Best double couple: NP1:ϕ_s77.00000°,δ63.00000° ,λ-31.00000°. NP2:ϕ_s182.00000°,δ63.00000°,λ-149.00000°. Principal axes: T 1.0540,Plg0.0000°,Azm129.0000°; N -0.0580,Plg50.0000°,Azm220.0000° ; P -0.9970,Plg40.0000°,Azm39.0000° $M_0$1.02500×10^{17}
NEIC Event type de. Error ellipse: s-maj=3.0km s-min=2.2km az=47.0. Ten houses destroyed and cracks developed in 90 percent of houses in the epicentral area. Felt at Gyegu.

(274) Southern Sumatera

ISC	**VI**	**26 10 18 27.3–.50**	**2.88S–.06**	**100.12E–.05**	**18–2**	**4.2b,3.6s**	**67**	**0-147**
DJA	VI	26 10 18 20.9–.40	3S–3.0	100E–3.0	10	5.9b,5.5		**¶16682706**
ISCJB	VI	26 10 18 27.5–.58	2.90S–.05	100.10E–.06	33–5	4.2b,3.5s		
NEIC	VI	26 10 18 28.1–.76	2.90S	100.19E	24–5	4.8b,3.5s		
IDC	VI	26 10 18 28.4–.52	2.86S	100.15E	24–2	4.1,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=6.4km az=143.5.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=5.7km az=53.0.
IDC Error ellipse: s-maj=17.8km s-min=11.1km az=57.0.

(196) Irian Jaya region

ISC	**VI**	**26 12 16 39.6–.35**	**2.39S–.03**	**136.66E–.03**	**25–2**	**6.4s,6.0b**	**1131**	**3-169**
ISCJB	VI	26 12 16 34.8–.57	2.34S–.02	136.63E–.02	6–3	6.4s,5.8b		**¶16682707**
IDC	VI	26 12 16 34.9–.31	2.35S	136.60E	0	6.3,6.3s		
BJI	VI	26 12 16 36.2	2.35S	136.65E	15	6.3s,6.2		
MOS	VI	26 12 16 38.8–1.2	2.35S	136.65E	35	6.2b,6.2s		
DJA	VI	26 12 16 38.0–.10	2S–2.0	137E–1.0	10	6.5b,6.2		
NEIC	VI	26 12 16 38.6–.10	2.38S	136.63E	17	6.5,6.4s		
GCMT	VI	26 12 16 38.6–.00	2.27S	136.61E	13–0	6.4W,6.4s		
NEIC	VI	26 12 16 39.0–.00	2.08S	137.03E	11	6.4W,6.4s		
NEIC	VI	26 12 16 54.1–.00	2.24S	136.92E	10	6.4W,6.4s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=36.7.
IDC Error ellipse: s-maj=13.4km s-min=8.4km az=71.0.
MOS Error ellipse: s-maj=7.8km s-min=4.4km az=110.3.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.0km az=65.0. Felt [V] at Serui and Waren; [IV] at Biak, Nabire and Sarmi; [III] at Timika and Wamena. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.00000×10^{19} Moment Tensor Solution. s22 Moment tensor: Scale 10^{18} Nm; M_{rr}0.07 $M_{\theta\theta}$-2.98 $M_{\phi\phi}$2.91 $M_{r\theta}$-0.18 $M_{\theta\phi}$1.27 $M_{\phi r}$-0.61 Best double couple: NP1: ϕ_s146.00000°,δ81.00000°,λ173.00000°. NP2:ϕ_s237.00000°,δ83.00000°,λ9.00000°. Principal axes: T 3.3000,Plg11.0000°,Azm102.0000°; N -0.0600,Plg79.0000°,Azm277.0000° ; P -3.2400,Plg1.0000°,Azm12.0000° $M_0$3.30000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s234.00000°,δ75.00000°,λ-5.00000°. NP2: ϕ_s325.00000°,δ85.00000°,λ-165.00000°. Principal axes: T Plg7.0000°,Azm98.0000° ; N Plg0.0000°,Azm0.0000°; P Plg14.0000°,Azm190.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c323; s147,c562;Duration: 3s7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.19±.02 $M_{\theta\theta}$-4.17±.02; $M_{\phi\phi}$3.97±.02; $M_{r\theta}$-0.06±.04; $M_{\theta\phi}$1.30±.02; $M_{\phi r}$0.74±.05; Best double couple: NP1:ϕ_s323.00000°,δ85.00000°,λ171.00000°. NP2:ϕ_s54.00000° ,δ81.00000°,λ5.00000°. Principal axes: T 4.2990,Plg10.0000°,Azm279.0000° ; N 0.0750,Plg80.0000°,Azm112.0000°; P -4.3790,Plg2.0000°,Azm9.0000° $M_0$4.33900×10^{18}
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}0.97 $M_{\theta\theta}$-3.02 $M_{\phi\phi}$2.06 $M_{r\theta}$-0.17 $M_{\theta\phi}$1.24 $M_{\phi r}$1.52 Best double couple: NP1:ϕ_s323.00000° ,δ73.00000°,λ151.00000°. NP2:ϕ_s62.00000°,δ62.00000°,λ19.00000°. Principal axes: T 3.2700,Plg32.0000°,Azm280.0000°; N 0.1100,Plg56.0000°,Azm115.0000° ; P -3.3700,Plg7.0000°,Azm14.0000° $M_0$3.30000×10^{18}
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$-3.87 $M_{\phi\phi}$3.85 $M_{r\theta}$1.10 $M_{\theta\phi}$1.56 $M_{\phi r}$-2.09 Best double couple: NP1:ϕ_s146.00000°

,δ88.00000°,λ151.00000°. NP2:ϕ_s237.00000°,δ61.00000°,λ2.00000°. Principal axes:
T 4.8900,Plg22.0000°,Azm97.0000°; N -0.2000,Plg61.0000°,Azm322.0000°
; P -4.6900,Plg19.0000°,Azm195.0000° $M_0$4.80000×10^{18}

(196) Irian Jaya region

ISC	**VI**	**26 12 19 19.6–.42**	**2.44S–.08**	**136.69E–.07**	**42**	**5.0b**	**67**	**4-152**
IDC	VI	26 12 19 13.7–.59	2.45S	136.56E	0	6.2,6.2s		**¶602897778**
NEIC	VI	26 12 19 16.7–3.3	2.41S	136.66E	19–20	5.6b,6.2s		
ISCJB	VI	26 12 19 17.9–.27	2.41S–.05	136.67E–.06	42	5.2b,6.2s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(196) Irian Jaya region

ISC	**VI**	**26 12 26 33.1–.40**	**2.52S–.06**	**136.57E–.06**	**42**	**5.3b**	**65**	**4-169**
IDC	VI	26 12 26 23.9–.81	2.22S	136.70E	0	4.6,4.3		**¶16704934**
NEIC	VI	26 12 26 26.6–.46	2.18S	136.61E	10	5.4b,4.3		
BJI	VI	26 12 26 31.2	2.50S	136.50E	30	5.9s,5.8		
ISCJB	VI	26 12 26 32.3–.35	2.68S–.05	136.62E–.06	42	5.1b,5.8		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(196) Irian Jaya region

ISC	**VI**	**26 12 51 47.1–.30**	**2.39S–.04**	**136.62E–.04**	**42**	**4.8b**	**166**	**3-152**
BJI	VI	26 12 51 40.0	2.65S	136.91E	23	5.5b,5.3s		**¶16682710**
IDC	VI	26 12 51 40.6–.46	2.29S	136.65E	0	4.5,4.4		
NEIC	VI	26 12 51 42.8–2.6	2.26S	136.65E	11–16	5.0b,4.4		
MOS	VI	26 12 51 44.0–1.1	2.33S	136.53E	33	4.9b,4.4		
DJA	VI	26 12 51 44.1–1.3	2S–5.0	137E–2.0	15–10	5.2,5.2		
ISCJB	VI	26 12 51 45.3–.19	2.33S–.03	136.62E–.03	42	4.8b,5.2		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(201) Irian Jaya

ISC	**VI**	**26 15 03 23.6–.50**	**2.44S–.04**	**136.73E–.04**	**28–3**	**5.3b,5.0s**	**482**	**3-157**
BJI	VI	26 15 03 16.2	2.65S	137.08E	9	5.5b,5.2b		**¶16682715**
NEIC	VI	26 15 03 19.4–1.7	2.41S	136.70E	2–10	5.4b,5.0s		
GCMT	VI	26 15 03 19.4–.10	2.40S	136.70E	14–0	5.4W,5.0s		
IDC	VI	26 15 03 19.7–.44	2.42S	136.73E	0	5.1,5.1b		
ISCJB	VI	26 15 03 20.9–.91	2.44S–.02	136.74E–.02	21–6	5.2b,5.0s		
MOS	VI	26 15 03 22.8–1.1	2.44S	136.65E	35	5.5b,5.0s		
DJA	VI	26 15 03 25.1–1.1	2S–4.0	137E–2.0	26–9	5.8,5.7b		

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c78; s111,c207;Duration: 1$\dot{s}$2 Moment tensor: Scale 10^{17}Nm;
M_{rr}0.47±.04 $M_{t\theta}$-1.84±.04; $M_{\phi\phi}$1.36±.03; $M_{r\theta}$-0.15±.06; $M_{\theta\phi}$0.28±.02; $M_{\phi r}$0.23±.07;
Best double couple: NP1:ϕ_s319.00000°,δ84.00000°,λ168.00000°. NP2:ϕ_s51.00000°
,δ78.00000°,λ6.00000°. Principal axes: T 1.4360,Plg13.0000°,Azm274.0000°
; N 0.4340,Plg76.0000°,Azm113.0000°; P -1.8780,Plg4.0000°,Azm5.0000° $M_0$1.65700×10^{17}
ISCJB Event type se.

(201) Irian Jaya

ISC	**VI**	**26 15 34 41.5–1.1**	**2.66S–.09**	**136.67E–.04**	**42**		**15**	**3-29**
IDC	VI	26 15 34 30.8–7.2	1.96S	136.46E	0	3.9,3.7		**¶17207006**
DJA	VI	26 15 34 34.6–.40	3S–5.0	137E–2.0	10	5.9b,5.5		
ISCJB	VI	26 15 34 39.3–.95	2.58S–.09	136.74E–.06	42	3.6b,5.5		

ISC Event type ke.
ISCJB Event type ke.

(196) Irian Jaya region

ISC	**VI**	**26 17 36 15.2–.92**	**2.4S–.10**	**136.74E–.05**	**35**		**15**	**3-68**
IDC	VI	26 17 36 10.9–1.5	2.41S	136.72E	0	3.9,3.7		**¶17207012**
ISCJB	VI	26 17 36 13.7–.57	2.49S–.10	136.71E–.03	33	3.7b,3.7		
DJA	VI	26 17 36 14.6–.60	2S–8.0	137E–3.0	93–37	6.5b,6.3		

ISC Event type ke.
ISCJB Event type ke.

(196) Irian Jaya region

ISC	**VI**	**26 20 03 05.8–.38**	**2.51S–.05**	**136.70E–.04**	**35**	**4.5b,4.0s**	**109**	**3-134**
BJI	VI	26 20 03 00.5	2.81S	136.61E	21	5.2b,4.8s		**¶16683830**
IDC	VI	26 20 03 00.8–.61	2.45S	136.60E	0	4.3,4.3b		
NEIC	VI	26 20 03 01.9–.26	2.40S	136.66E	10	4.7b,4.3b		
ISCJB	VI	26 20 03 03.6–.23	2.49S–.03	136.71E–.03	33	4.5b,4.0s		
DJA	VI	26 20 03 04.7–1.0	2S–4.0	137E–2.0	22–8	5.6b,5.1		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(173) Tonga Islands

ISC	**VI**	**27 00 30 31.2–.56**	**17.11S–.05**	**173.62W–.04**	**50–4**	**5.5b,4.9s**	**1286**	**4-174**
IDC	VI	27 00 30 24.0–.37	17.02S	173.68W	0	5.3,5.3		**¶16721010**
BJI	VI	27 00 30 27.0	16.86S	173.08W	35	5.6b,5.4b		
ISCJB	VI	27 00 30 28.6–.11	17.12S–.03	173.70W–.02	40	5.5b,4.8s		
MOS	VI	27 00 30 28.8–1.1	16.95S	173.65W	33	5.6b,4.8s		
GCMT	VI	27 00 30 29.7–.10	17.18S	173.31W	58–0	5.4W,4.8s		
NEIC	VI	27 00 30 29.7–.10	17.11S	173.69W	35	5.6b,5.5W		

ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.2km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.8km az=152.5.
MOS Error ellipse: s-maj=9.1km s-min=6.5km az=65.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c203; s117,c224;Duration: 1$\dot{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.02 $M_{t\theta}$-1.37±.02;
$M_{\phi\phi}$0.39±.02; $M_{r\theta}$0.46±.02; $M_{\theta\phi}$0.12±.02; $M_{\phi r}$-0.81±.02; Best double couple: NP1:
ϕ_s124.00000°,δ65.00000°,λ124.00000°. NP2:ϕ_s245.00000°,δ42.00000°,λ39.00000°.
Principal axes: T 1.5840,Plg56.0000°,Azm79.0000°; N -0.0820,Plg31.0000°,Azm288.0000°
; P -1.5010,Plg13.0000°,Azm189.0000° $M_0$1.54200×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.6km az=141.0. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}2.01 $M_{t\theta}$-2.01 $M_{\theta\phi}$0.00 $M_{r\theta}$0.78 $M_{\theta\phi}$0.45 $M_{\phi r}$-0.89
Best double couple: NP1:ϕ_s119.00000°,δ60.00000°,λ108.00000°. NP2:ϕ_s266.00000°
,δ35.00000°,λ62.00000°. Principal axes: T 2.4200,Plg70.0000°,Azm68.0000°
; N -0.1000,Plg15.0000°,Azm289.0000°; P -2.3200,Plg13.0000°,Azm196.0000°
$M_0$2.40000×10^{17}

(179) South of Kermadec Islands

ISC	**VI**	**27 13 39 14.3–.29**	**33.07S–.04**	**178.85W–.05**	**45**	**5.2b,4.2s**	**361**	**4-172**
BJI	VI	27 13 39 07.8	33.64S	179.42W	11	5.6b,5.3b		**¶16721016**
GCMT	VI	27 13 39 10.3–.30	33.12S	178.62W	45–1	5.0W,5.3b		
NEIC	VI	27 13 39 10.3–.49	33.09S	178.90W	18–2	5.2b,5.3b		
ISCJB	VI	27 13 39 12.5–.19	33.15S–.02	179.09W–.04	33	5.1b,4.1s		
MOS	VI	27 13 39 12.4–1.0	32.90S	179.04W	33	5.5b,4.1s		
IDC	VI	27 13 39 14.8–2.2	32.95S	178.85W	47–19	4.8,4.6		

ISC Event type se.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c48; s62,c81;
Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.05±.20 $M_{t\theta}$0.28±.14; $M_{\phi\phi}$2.77±.12;
$M_{r\theta}$-0.00±.11; $M_{\theta\phi}$0.71±.09; $M_{\phi r}$-1.85±.10; Best double couple: NP1:ϕ_s7.00000°,δ61.00000°
,λ-97.00000°. NP2:ϕ_s202.00000°,δ30.00000°,λ-78.00000°. Principal axes:
T 3.4540,Plg16.0000°,Azm103.0000°; N 0.1410,Plg6.0000°,Azm11.0000°
; P -3.5980,Plg73.0000°,Azm260.0000° $M_0$3.52600×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=2.7km az=25.6.
MOS Error ellipse: s-maj=12.5km s-min=8.9km az=98.5.
IDC Error ellipse: s-maj=15.7km s-min=13.0km az=135.0.

(702) Balleny Islands region

ISC	**VI**	**27 20 31 46.2–.49**	**65.29S–.07**	**179.6E–.10**	**10**	**5.1b,4.8s**	**73**	**13-173**
ISCJB	VI	27 20 31 44.7–.45	65.29S–.05	179.1E–.20	10	4.8b,4.8s		**¶16684573**
IDC	VI	27 20 31 44.7–.68	65.17S	179.42E	0	4.7,4.7		
BJI	VI	27 20 31 46.8	65.30S	178.90E	10	5.6b,5.2s		
NEIC	VI	27 20 31 46.2–.33	65.28S	179.15E	10	5.3b,4.9s		
GCMT	VI	27 20 31 46.2–.20	65.19S	179.00E	19–1	5.3W,4.9s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=6.6km az=174.5.
IDC Error ellipse: s-maj=27.8km s-min=17.4km az=68.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=5.3km az=82.0.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c79; s95,c165;
Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{t\theta}$1.12±.03; $M_{\phi\phi}$-0.95±.03;
$M_{r\theta}$-0.83±.08; $M_{\theta\phi}$-0.19±.02; $M_{\phi r}$-0.01±.05; Best double couple: NP1:ϕ_s229.00000°
,δ79.00000°,λ154.00000°. NP2:ϕ_s325.00000°,δ65.00000°,λ12.00000°. Principal axes:
T 1.5420,Plg26.0000°,Azm184.0000°; N -0.5540,Plg62.0000°,Azm27.0000°
; P -0.9870,Plg9.0000°,Azm279.0000° $M_0$1.26400×10^{17}

(7) Andreanof Islands

ISC	**VI**	**27 23 27 33.4–.34**	**51.95N–.03**	**171.70W–.02**	**33–1**	**5.8b,5.4s**	**2135**	**2-161**
BJI	VI	27 23 27 32.8	52.16N	172.18W	31	5.8b,5.7s		**¶16683878**
MOS	VI	27 23 27 32.4–.94	52.04N	171.77W	34	5.9b,5.5s		
NEIC	VI	27 23 27 33.0–.00	51.96N	171.73W	30	5.9b,5.5s		
GCMT	VI	27 23 27 33.5–.10	51.92N	171.75W	29–0	5.8W,5.5s		
NEIC	VI	27 23 27 33.5–.10	52.00N	171.76W	29	6.1,5.9b		
ISCJB	VI	27 23 27 34.2–.28	52.00N–.02	171.68W–.01	52–2	5.7b,5.4s		
IDC	VI	27 23 27 34.2–1.1	52.00N	171.74W	37–8	5.4,5.3		

ISC Event type se.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=91.0.
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06
$M_{t\theta}$0.29 $M_{\phi\phi}$-1.36 $M_{r\theta}$4.65 $M_{\theta\phi}$-0.99 $M_{\phi r}$3.04 Best double couple: NP1:ϕ_s56.00000°
,δ84.00000°,λ101.00000°. NP2:ϕ_s172.00000°,δ13.00000°,λ26.00000°. Principal axes:
T 5.7300,Plg49.0000°,Azm338.0000°; N 0.0900,Plg11.0000°,Azm234.0000°
; P -5.8200,Plg38.0000°,Azm135.0000° $M_0$5.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c235; s128,c323;Duration: 2$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31±.04 $M_{t\theta}$0.34±.03;
$M_{\phi\phi}$-1.66±.03; $M_{r\theta}$5.72±.12; $M_{\theta\phi}$-1.05±.02; $M_{\phi r}$2.94±.08; Best double couple: NP1:ϕ_s61.00000°
,δ85.00000°,λ102.00000°. NP2:ϕ_s173.00000°,δ13.00000°,λ23.00000°. Principal axes:
T 6.8370,Plg49.0000°,Azm344.0000°; N -0.3100,Plg12.0000°,Azm240.0000°
; P -6.5330,Plg39.0000°,Azm140.0000° $M_0$6.68500×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=1.8km az=172.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s88 Moment tensor: Scale 10^{17}Nm; M_{rr}1.08 $M_{t\theta}$-0.86 $M_{\phi\phi}$-0.22 $M_{r\theta}$3.17
$M_{\theta\phi}$-0.44 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s237.00000°,δ9.00000°,λ79.00000°. NP2:
ϕ_s68.00000°,δ81.00000°,λ92.00000°. Principal axes: T 3.5700,Plg54.0000°,Azm340.0000°
; N 0.0000,Plg2.0000°,Azm248.0000°; P -3.5700,Plg36.0000°,Azm157.0000°
$M_0$3.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:
ϕ_s240.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s60.00000°,δ85.00000°,λ90.00000°.
Principal axes: T Plg50.0000°,Azm330.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°
,Azm150.0000°
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=1.5km az=2.3.
IDC Error ellipse: s-maj=9.0km s-min=6.4km az=160.0.

(9) Fox Islands

ISC	**VI**	**28 06 48 34.3–.34**	**51.90N–.04**	**171.75W–.03**	**52–2**	**5.5s,5.4b**	**1354**	**1-159**
MOS	VI	28 06 48 31.3–.97	52.15N	171.78W	33	5.6b,5.5s		**¶16683888**
GCMT	VI	28 06 48 32.7–.10	51.84N	171.82W	36–0	5.8W,5.5s		
IDC	VI	28 06 48 32.9–1.4	52.11N	171.74W	33–9	5.3,5.3s		
NEIC	VI	28 06 48 32.5–.18	52.09N	171.70W	30	5.8W,5.8		
ISCJB	VI	28 06 48 33.1–.32	52.07N–.03	171.66W–.02	53–2	5.4s,5.4b		
BJI	VI	28 06 48 34.5	52.51N	172.24W	47	5.7s,5.6b		
NEIC	VI	28 06 48 35.5–.00	51.94N	171.93W	23	5.7s,5.6b		

ISC Event type se.
MOS Error ellipse: s-maj=6.1km s-min=4.4km az=89.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c244; s129,c321;Duration: 2$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}3.84±.06 $M_{t\theta}$-3.86±.05;
$M_{\phi\phi}$0.02±.05; $M_{r\theta}$5.64±.11; $M_{\theta\phi}$-0.37±.04; $M_{\phi r}$-0.11±.07; Best double couple: NP1:ϕ_s90.00000°
,δ73.00000°,λ93.00000°. NP2:ϕ_s259.00000°,δ17.00000°,λ80.00000°. Principal axes:
T 6.8290,Plg62.0000°,Azm5.0000°; N 0.0210,Plg3.0000°,Azm269.0000°
; P -6.8500,Plg28.0000°,Azm177.0000° $M_0$6.84000×10^{17}
IDC Error ellipse: s-maj=12.5km s-min=7.8km az=178.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=3.0km az=175.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36 $M_{t\theta}$-1.98 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.88
$M_{\theta\phi}$-0.68 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s241.00000°,δ20.00000°,λ70.00000°. NP2:
ϕ_s81.00000°,δ71.00000°,λ97.00000°. Principal axes: T 3.8000,Plg63.0000°,Azm3.0000°
; N -0.2200,Plg7.0000°,Azm259.0000°; P -3.5800,Plg26.0000°,Azm166.0000°
$M_0$3.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:
ϕ_s260.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s80.00000°,δ80.00000°,λ90.00000°.
Principal axes: T Plg55.0000°,Azm350.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°
,Azm170.0000°
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=1.7km az=4.1.
NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}2.88
$M_{t\theta}$-2.83 $M_{\phi\phi}$-0.05 $M_{r\theta}$5.48 $M_{\theta\phi}$-0.29 $M_{\phi r}$0.45 Best double couple: NP1:ϕ_s85.00000°
,δ76.00000°,λ90.00000°. NP2:ϕ_s263.00000°,δ14.00000°,λ88.00000°. Principal axes:
T 6.2100,Plg58.0000°,Azm355.0000°; N -0.0100,Plg0.0000°,Azm265.0000°
; P -6.2000,Plg31.0000°,Azm174.0000° $M_0$6.20000×10^{17}

(9) Fox Islands

ISC	**VI**	**28 06 54 02.0–.47**	**51.95N–.06**	**171.57W–.03**	**52–3**	**5.3b**	**1176**	**2-154**
MOS	VI	28 06 53 58.7–1.3	51.88N	171.70W	33	5.5b		**¶16683889**
BJI	VI	28 06 54 01.1	52.33N	172.07W	46	5.5s,5.3		
IDC	VI	28 06 54 01.1–1.4	52.06N	171.64W	41–11	5.1s,5.1		
ISCJB	VI	28 06 54 02.0–.36	52.04N–.03	171.57W–.02	69–3	5.2b,5.1		
GCMT	VI	28 06 54 03.2–.30	51.81N	171.70W	35–0	5.4W,5.1		
NEIC	VI	28 06 54 03.2–.32	52.01N	171.67W	62–2	5.4b,5.3L		

ISC Event type se.
MOS Error ellipse: s-maj=13.5km s-min=8.3km az=66.6.
IDC Error ellipse: s-maj=12.8km s-min=8.1km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=1.9km az=179.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c48; s108,c180;
Duration: 1$\dot{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.08 $M_{t\theta}$1.51±.05; $M_{\phi\phi}$-0.34±.05;
$M_{r\theta}$0.40±.04; $M_{\theta\phi}$-0.36±.03; $M_{\phi r}$0.55±.03; Best double couple: NP1:ϕ_s255.00000°,δ57.00000°
,λ-124.00000°. NP2:ϕ_s127.00000°,δ46.00000°,λ-49.00000°. Principal axes:
T 1.6110,Plg6.0000°,Azm9.0000°; N -0.0840,Plg28.0000°,Azm275.0000°
; P -1.5250,Plg61.0000°,Azm110.0000° $M_0$1.56800×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=1.8km az=173.0.

(181) Fiji Islands region

ISC	**VI**	**28 07 07 21.4–.32**	**16.99S–.07**	**177.10W–.06**	**35**	**5.0b,4.7s**	**423**	**5-176**
IDC	VI	28 07 07 15.3–.64	17.05S	177.02W	0	4.9,4.9s		**¶16683890**
ISCJB	VI	28 07 07 19.8–.16	16.87S–.05	177.22W–.04	33	5.0s,4.9b		
BJI	VI	28 07 07 20.2	16.70S	177.29W	22	5.5b,5.5s		
MOS	VI	28 07 07 21.2–1.5	16.66S	177.35W	33	5.1b,5.5s		
GCMT	VI	28 07 07 22.1–.20	16.88S	176.98W	12	5.3W,5.5s		
NEIC	VI	28 07 07 22.1–1.3	16.75S	177.29W	36–12	5.0b,5.5s		

ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=15.1km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=3.4km az=151.0.
MOS Error ellipse: s-maj=12.6km s-min=8.4km az=135.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c67; s110,c180;
Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.02 $M_{t\theta}$-0.84±.02; $M_{\phi\phi}$0.90±.02;
$M_{r\theta}$-0.27±.06; $M_{\theta\phi}$-0.08±.02; $M_{\phi r}$0.81±.05; Best double couple: NP1:ϕ_s315.00000°,δ86.00000°
,λ140.00000°. NP2:ϕ_s48.00000°,δ50.00000°,λ5.00000°. Principal axes:
T 1.3800,Plg30.0000°,Azm264.0000°; N -0.4320,Plg50.0000°,Azm130.0000°
; P -0.9480,Plg24.0000°,Azm9.0000° $M_0$1.16400×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.5km az=147.0.

(263) Talaud Islands

ISC	**VI**	**28 09 50 03.9–.39**	**4.69N–.03**	**125.31E–.04**	**40–3**	**5.1b,4.7s**	**447**	**1-162**
BJI	VI	28 09 49 59.2	4.52N	125.46E	26	5.2b,5.1s		**¶16684163**
ISCJB	VI	28 09 50 02.5–.41	4.71N–.02	125.31E–.02	40–3	5.0b,4.7s		
MOS	VI	28 09 50 02.3–1.4	4.82N	125.17E	36	5.3b,4.7s		
IDC	VI	28 09 50 04.6–1.9	4.70N	125.17E	46–19	4.7,4.6		
GCMT	VI	28 09 50 05.4–.10	4.76N	125.14E	12	5.3W,4.6		
NEIC	VI	28 09 50 05.4–.65	4.68N	125.23E	52–6	5.2b,4.6		
DJA	VI	28 09 50 06.2–.40	5N–3.0	125E–2.0	45–4	5.7b,5.6		

ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c114; s101,c190;Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm;
M_{rr}0.62±.02 $M_{t\theta}$0.34±.01; $M_{\phi\phi}$-0.95±.02; $M_{r\theta}$-0.29±.04; $M_{\theta\phi}$-0.56±.01; $M_{\phi r}$-0.89±.04;
Best double couple: NP1:ϕ_s197.00000°,δ68.00000°,λ86.00000°. NP2:ϕ_s28.00000°
,δ22.00000°,λ100.00000°. Principal axes: T 1.0240,Plg66.0000°,Azm100.0000°
; N 0.5480,Plg4.0000°,Azm198.0000°; P -1.5710,Plg23.0000°,Azm290.0000°
$M_0$1.29700×10^{17}

NEIC Event type se.

(274) Southern Sumatera

ISC	**VI**	**29 04 19 41.7–.43**	**5.09S–.03**	**101.86E–.04**	**29–2**	**5.2b,4.7s**	**692**	**1-153**
BJI	VI	29 04 19 36.0	5.64S	102.02E	33	5.3b,5.3s		**¶16685762**
IDC	VI	29 04 19 37.5–.43	5.03S	102.06E	0	4.8b,4.8		
MOS	VI	29 04 19 41.8–1.1	4.87S	102.12E	36	5.5b,4.8s		
GCMT	VI	29 04 19 42.2–.20	5.27S	101.69E	34–0	5.2W,4.8s		
ISCJB	VI	29 04 19 42.2–.49	5.03S–.03	101.91E–.03	44–4	5.1b,4.8s		
NEIC	VI	29 04 19 42.2–1.4	5.04S	101.89E	32–9	5.3b,4.8s		
DJA	VI	29 04 19 43.3–.40	5S–3.0	102E–3.0	42–3	5.9,5.7b		
KLM	VI	29 04 19 43.2	5.09S	101.76E	42	6.1s,5.5L		

ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=8.9km az=52.0.
MOS Error ellipse: s-maj=10.0km s-min=5.0km az=108.3.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c119; s84,c127; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.68±.02 $M_{\theta\theta}$-0.42±.01; $M_{\phi\phi}$-0.25±.02; $M_{r\theta}$0.47±.02; $M_{\theta\phi}$0.39±.01; $M_{\phi r}$-0.35±.03; Best double couple: NP1:ϕ_s127.00000°,δ65.00000°,λ88.00000°. NP2:ϕ_s311.00000°,δ25.00000°,λ94.00000°. Principal axes: T 0.8920,Plg70.0000°,Azm34.0000°; N 0.0550,Plg1.0000°,Azm128.0000° ; P -0.9470,Plg20.0000°,Azm219.0000° $M_0$0.91900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.2km az=136.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=53.0.

(134) Off coast of central Chile

ISC	**VI**	**29 05 36 50.4–.83**	**33.90S–.03**	**72.17W–.04**	**30–5**	**5.5b,5.2s**	**1036**	**1-179**
IDC	VI	29 05 36 45.3–.37	33.95S	72.13W	0	5.2,5.2s		**¶16685765**
NEIC	VI	29 05 36 46.0	33.91S	72.34W	20	5.5b,5.2s		
GCMT	VI	29 05 36 46.0–.10	33.98S	72.54W	19–0	5.5W,5.2s		
GUC	VI	29 05 36 46.8–.47	33.91S	72.34W	20–7	5.1L,5.2s		
ISCJB	VI	29 05 36 47.5–.89	33.88S–.02	72.41W–.04	22–6	5.4b,5.2s		
BJI	VI	29 05 36 49.1	33.90S	72.10W	18	5.5s,5.4		
MOS	VI	29 05 36 50.0–1.1	33.77S	72.19W	31	5.6b,5.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.3km az=86.0.
NEIC Event type fe. Felt [III] at Curico, Iloca, Molina, Navidad, Paredones, Pichilemu and San Antonio; [II] at Chepica, Cobquecura, Colina, Concepcion, Constitucion, El Quisco, Lolol, Parral, Rancagua, San Carlos, Santa Cruz, Santiago, Talca, Talcahuano, Tiltil, Valparaiso and Vina del Mar. After GUC.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c145; s110,c196; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.52±.03 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$-1.43±.03; $M_{r\theta}$-0.05±.05; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$-2.02±.08; Best double couple: NP1:ϕ_s183.00000°,δ72.00000°,λ87.00000°. NP2:ϕ_s13.00000°,δ18.00000°,λ100.00000°. Principal axes: T 2.5470,Plg63.0000°,Azm88.0000°; N -0.0760,Plg3.0000°,Azm184.0000° ; P -2.4730,Plg27.0000°,Azm275.0000° $M_0$2.51000×10^{17}
GUC Error ellipse: s-maj=1.9km s-min=5.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.9km az=176.8.
MOS Error ellipse: s-maj=14.7km s-min=7.0km az=100.8.

(282) South of Jawa

ISC	**VI**	**29 11 35 53.6–.40**	**9.69S–.05**	**113.72E–.04**	**26**	**4.5b,3.8s**	**110**	**1-154**
IDC	VI	29 11 35 49.4–.50	9.50S	113.74E	0	4.5,4.4b		**¶16685791**
ISCJB	VI	29 11 35 52.0–.28	9.69S–.03	113.71E–.02	26	4.5b,3.7s		
DJA	VI	29 11 35 52.3–.20	10S–2.0	114E–1.0	10	5.6b,5.1		
NEIC	VI	29 11 35 55.1–.61	9.58S	113.76E	41–6	4.4b,5.1		

ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=13.2km az=62.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.2km az=11.9.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=198.0.

(248) Philippine Islands region

ISC	**VI**	**29 20 51 57.1–.42**	**13.49N–.03**	**125.40E–.04**	**34–1**	**5.0b,4.3s**	**546**	**2-167**
IDC	VI	29 20 51 51.7–.38	13.46N	125.36E	0	4.9,4.9		**¶16686680**
ISCJB	VI	29 20 51 54.3–.81	13.50N–.02	125.37E–.02	25–5	5.0b,4.3s		
MAN	VI	29 20 51 54	13.56N	125.40E	35	5.8b,5.2s		
MOS	VI	29 20 51 55.5–.88	13.46N	125.34E	36	5.3b,4.4s		
BJI	VI	29 20 51 55.6	13.45N	125.37E	39	5.0b,4.8b		
NEIC	VI	29 20 51 56.5–1.4	13.47N	125.32E	31–9	5.1b,4.8b		
GCMT	VI	29 20 51 56.5–.10	13.64N	125.33E	16–0	5.2W,4.8b		
KLM	VI	29 20 51 58.2	13.67N	125.68E	96	5.5s,5.1b		
DJA	VI	29 20 52 02.4–.40	14N–2.0	125E–3.0	95–4	5.5,5.4b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c126; s113,c210;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.69±.02 $M_{\theta\theta}$0.41±.01; $M_{\phi\phi}$0.28±.01; $M_{r\theta}$0.33±.03; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$-0.07±.03; Best double couple: NP1:ϕ_s298.00000°,δ57.00000°,λ-104.00000°. NP2:ϕ_s143.00000°,δ35.00000°,λ-69.00000°. Principal axes: T 0.8170,Plg11.0000°,Azm39.0000° ; N -0.0340,Plg12.0000°,Azm306.0000°; P -0.7830,Plg74.0000°,Azm171.0000° $M_0$0.80000×10^{17}

(702) Balleny Islands region

ISC	**VI**	**30 04 21 19.7–.56**	**61.14S–.07**	**154.4E–.10**	**10**	**4.7b,4.6s**	**47**	**7-155**
BJI	VI	30 04 21 17.5	61.40S	154.00E	10	5.6b,5.4b		**¶16702453**
ISCJB	VI	30 04 21 18.8–.58	61.06S–.07	153.8E–.20	10	4.7b,4.7s		
IDC	VI	30 04 21 18.9–1.2	61.00S	153.93E	0	4.8,4.7		
NEIC	VI	30 04 21 19.3–.48	61.19S	153.98E	10	4.8b,4.7		
GCMT	VI	30 04 21 19.3–.20	61.06S	153.78E	12	5.3W,4.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=8.9km az=32.5.
IDC Error ellipse: s-maj=40.9km s-min=23.9km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=114.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c120; s99,c167; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.01±.02; $M_{\phi\phi}$-0.98±.02; $M_{r\theta}$0.04±.05; $M_{\theta\phi}$-0.82±.02; $M_{\phi r}$0.19±.06; Best double couple: NP1:ϕ_s154.00000°,δ85.00000°,λ-7.00000°. NP2:ϕ_s245.00000°,δ83.00000°,λ-175.00000°. Principal axes: T 1.3070,Plg1.0000°,Azm200.0000°; N 0.0030,Plg81.0000°,Azm297.0000° ; P -1.3080,Plg9.0000°,Azm110.0000° $M_0$1.30700×10^{17}

(174) Tonga Islands region

ISC	**VI**	**30 04 30 52.9–.27**	**23.53S–.05**	**175.66W–.05**	**30**	**5.4s,5.1b**	**517**	**6-179**
BJI	VI	30 04 30 48.9	23.23S	175.59W	10	5.7b,5.4s		**¶602918842**
IDC	VI	30 04 30 48.3–.51	23.37S	175.85W	0	5.0,5.0L		
ISCJB	VI	30 04 30 52.0–.15	23.58S–.04	175.82W–.03	30	5.3s,5.0b		
NEIC	VI	30 04 30 53.0–.00	23.20S	175.30W	25	5.3s,5.0b		
MOS	VI	30 04 30 53.0–1.1	23.47S	175.95W	33	5.3s,5.2b		
NEIC	VI	30 04 30 54.1–.18	23.48S	175.91W	35	5.6W,5.4s		
GCMT	VI	30 04 30 54.1–.10	23.64S	175.27W	26–0	5.7W,5.4s		

ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=14.4km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=150.8.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}2.73 $M_{\theta\theta}$-0.02 $M_{\phi\phi}$-2.70 $M_{r\theta}$0.06 $M_{\theta\phi}$-1.35 $M_{\phi r}$-0.56 Best double couple: NP1:ϕ_s196.00000°,δ50.00000°,λ81.00000°. NP2:ϕ_s30.00000°,δ41.00000°,λ100.00000°. Principal axes: T 2.8000,Plg81.0000°,Azm56.0000°; N 0.5100,Plg6.0000°,Azm201.0000° ; P -3.3100,Plg4.0000°,Azm292.0000° $M_0$3.10000×10^{17}
MOS Error ellipse: s-maj=11.9km s-min=9.2km az=73.1.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.7km az=141.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c222; s129,c303;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.80±.04 $M_{\theta\theta}$-0.35±.03; $M_{\phi\phi}$-2.45±.03; $M_{r\theta}$1.18±.07; $M_{\theta\phi}$-1.10±.02; $M_{\phi r}$2.03±.07; Best double couple: NP1:ϕ_s28.00000°,δ65.00000°,λ94.00000°. NP2:ϕ_s198.00000°,δ26.00000°,λ82.00000°. Principal axes: T 3.6500,Plg70.0000°,Azm306.0000°; N 0.1000,Plg4.0000°,Azm206.0000° ; P -3.7530,Plg20.0000°,Azm115.0000° $M_0$3.70100×10^{17}

(174) Tonga Islands region

ISC	**VI**	**30 09 09 17.8–.41**	**23.61S–.04**	**175.78W–.04**	**35–1**	**5.5s,5.4b**	**1091**	**6-179**
IDC	VI	30 09 09 12.2–.42	23.55S	175.79W	0	5.3s,5.3		**¶16721036**
ISCJB	VI	30 09 09 16.4–.12	23.57S–.04	175.84W–.03	33	5.5s,5.4b		
BJI	VI	30 09 09 16.0	23.22S	175.67W	26	5.8b,5.6s		
NEIC	VI	30 09 09 17.0–.00	23.06S	175.47W	13	5.8b,5.6s		
MOS	VI	30 09 09 17.3–1.2	23.44S	175.95W	33	5.7b,5.4s		
NEIC	VI	30 09 09 18.3–.16	23.54S	175.85W	35	5.7W,5.5b		
GCMT	VI	30 09 09 24.2–.10	23.66S	175.33W	27–0	5.8W,5.5b		

ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=14.1km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=2.9km az=156.6.
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{17}Nm; M_{rr}3.76 $M_{\theta\theta}$-0.06 $M_{\phi\phi}$-3.70 $M_{r\theta}$2.19 $M_{\theta\phi}$-1.24 $M_{\phi r}$2.56 Best double couple: NP1:ϕ_s32.00000°,δ66.00000°,λ103.00000°. NP2:ϕ_s182.00000°,δ28.00000°,λ63.00000°. Principal axes: T 5.1600,Plg66.0000°,Azm326.0000°; N 0.0200,Plg12.0000°,Azm206.0000° ; P -5.1800,Plg19.0000°,Azm112.0000° $M_0$5.20000×10^{17}
MOS Error ellipse: s-maj=9.7km s-min=7.5km az=76.8.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=150.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c251; s131,c361;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}4.11±.04 $M_{\theta\theta}$-0.44±.03; $M_{\phi\phi}$-3.67±.03; $M_{r\theta}$1.40±.08; $M_{\theta\phi}$-1.54±.03; $M_{\phi r}$2.78±.07; Best double couple: NP1:ϕ_s25.00000°,δ63.00000°,λ93.00000°. NP2:ϕ_s199.00000°,δ27.00000°,λ84.00000°. Principal axes: T 5.1440,Plg72.0000°,Azm301.0000°; N 0.1640,Plg2.0000°,Azm204.0000° ; P -5.3090,Plg18.0000°,Azm113.0000° $M_0$5.22700×10^{17}

(174) Tonga Islands region

ISC	**VI**	**30 09 47 08.2–.32**	**23.73S–.07**	**175.70W–.06**	**30**	**5.0b,4.9s**	**251**	**7-169**
IDC	VI	30 09 47 03.9–.48	23.48S	175.84W	0	4.8,4.8		**¶16692830**
BJI	VI	30 09 47 04.1	22.63S	175.27W	2	5.8b,5.4s		
ISCJB	VI	30 09 47 06.9–.19	23.71S–.06	175.75W–.04	30	4.9s,4.9b		
NEIC	VI	30 09 47 09.1–.37	23.57S	175.88W	35	5.0b,4.9b		
GCMT	VI	30 09 47 09.1–.10	23.71S	175.32W	26–0	5.5W,4.9b		
MOS	VI	30 09 47 12.5–3.0	23.69S	176.69W	33	5.4b,4.9b		

ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=14.7km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=4.5km az=161.2.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.6km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s100,c172; s117,c201; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.73±.04 $M_{\theta\theta}$-0.40±.02; $M_{\phi\phi}$-1.33±.02; $M_{r\theta}$0.58±.05; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$0.95±.04; Best double couple: NP1:ϕ_s28.00000°,δ62.00000°,λ93.00000°. NP2:ϕ_s201.00000°,δ28.00000°,λ84.00000°. Principal axes: T 2.0770,Plg73.0000°,Azm306.0000°; N -0.1730,Plg3.0000°,Azm206.0000° ; P -1.8990,Plg17.0000°,Azm115.0000° $M_0$1.98800×10^{17}
MOS Error ellipse: s-maj=15.2km s-min=11.2km az=43.3.

(174) Tonga Islands region

ISC	**VI**	**30 14 16 18.4–.35**	**23.47S–.06**	**175.88W–.06**	**33**	**4.9b,4.3s**	**206**	**6-169**
IDC	VI	30 14 16 13.6–.57	23.47S	175.89W	0	4.8,4.7b		**¶16721038**
ISCJB	VI	30 14 16 16.7–.25	23.52S–.06	175.83W–.05	33	4.8b,4.2s		
BJI	VI	30 14 16 17.3	23.68S	175.48W	45	5.6b,5.2b		
GCMT	VI	30 14 16 18.8–.40	23.79S	175.17W	21–1	5.0W,5.2b		
NEIC	VI	30 14 16 18.8–.35	23.27S	176.05W	35	5.0b,5.2b		
MOS	VI	30 14 16 25.5–2.9	21.94S	176.90W	33	5.2b,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=15.7km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.8km az=147.9.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c47; s66,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.95±.17 $M_{\theta\theta}$-1.40±.14; $M_{\phi\phi}$-1.56±.11; $M_{r\theta}$0.80±.20; $M_{\theta\phi}$-0.72±.07; $M_{\phi r}$2.25±.19; Best double couple: NP1:ϕ_s28.00000°,δ66.00000°,λ83.00000°. NP2:ϕ_s226.00000°,δ25.00000°,λ106.00000°. Principal axes: T 3.9220,Plg68.0000°,Azm284.0000°; N -0.8640,Plg7.0000°,Azm31.0000° ; P -3.0680,Plg21.0000°,Azm123.0000° $M_0$3.49500×10^{16}
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.5km az=135.0.
MOS Error ellipse: s-maj=14.1km s-min=12.4km az=113.4.

MAJOR INTERMEDIATE FOCUS EARTHQUAKES
60km<h<=300km,M>=5.5

(189) Southeast of Loyalty Islands

ISC	**I**	**05 06 46 15.4–.23**	**22.30S–.03**	**171.68E–.03**	**123–1**	**5.9b**	**1433**	**4-169**
GCMT	I	05 06 46 14.6–.10	22.48S	171.58E	126–0	6.1W		**¶16021252**
ISCJB	I	05 06 46 14.7–.59	22.34S–.02	171.56E–.02	125–5	5.9b		
NEIC	I	05 06 46 14.6–.10	22.26S	171.63E	112	6.1W,5.8b		
IDC	I	05 06 46 14.9–.29	22.27S	171.63E	117–2	5.9,5.6		
BJI	I	05 06 46 16.2	22.30S	171.60E	136	6.1b,5.8b		
NEIC	I	05 06 46 17.0–.00	22.30S	171.60E	135	6.1b,5.8b		
MOS	I	05 06 46 17.1–1.4	22.24S	171.56E	143	5.8b,5.3s		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s137,c320; s141,c511;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.53±.01 $M_{\theta\theta}$-1.18±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$0.94±.01; $M_{\theta\phi}$0.63±.01; $M_{\phi r}$0.77±.01; Best double couple: NP1:ϕ_s68.00000°,δ77.00000°,λ48.00000°. NP2:ϕ_s324.00000°,δ44.00000°,λ161.00000°. Principal axes: T 1.7750,Plg42.0000°,Azm298.0000° ; N -0.1430,Plg41.0000°,Azm80.0000°; P -1.6330,Plg21.0000°,Azm189.0000° $M_0$1.70400×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=10.8.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.2km az=118.0. Felt at Noumea and We, New Caledonia.
IDC Error ellipse: s-maj=8.0km s-min=6.4km az=174.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ80.00000°,λ53.00000°. NP2:ϕ_s323.00000°,δ37.00000°,λ164.00000°. Principal axes: T 1.6000,Plg43.0000°,Azm301.0000°; N -0.2200,Plg36.0000°,Azm73.0000° ; P -1.3800,Plg26.0000°,Azm184.0000°
MOS Error ellipse: s-maj=8.4km s-min=7.0km az=123.1.

(202) New Guinea

ISC	**I**	**06 00 23 59.5–.25**	**4.21S–.03**	**142.24E–.03**	**111–1**	**5.3b**	**838**	**2-158**
BJI	I	06 00 23 55.1	4.36S	142.65E	109	5.2b,5.1b		**¶15906293**
ISCJB	I	06 00 23 58.6–.44	4.15S–.02	142.26E–.02	115–4	5.2b,5.1b		
NEIC	I	06 00 23 59.6–.13	4.12S	142.24E	113	5.5b,5.1b		
MOS	I	06 00 23 59.0–1.1	4.09S	142.28E	118	5.1b,5.1b		
GCMT	I	06 00 23 59.6–.10	4.16S	142.19E	114–0	5.3W,5.1b		
IDC	I	06 00 23 59.6–.34	4.14S	142.23E	114–2	5.0,4.7		
DJA	I	06 00 24 03.8–.40	4S–3.0	142E–3.0	137–4	5.6,5.6b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c162; s118,c211;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.09±.02 $M_{\theta\theta}$-1.08±.02; $M_{\phi\phi}$-0.01±.02; $M_{r\theta}$-0.44±.02; $M_{\theta\phi}$0.27±.02; $M_{\phi r}$0.15±.02; Best double couple: NP1:ϕ_s286.00000°,δ56.00000°,λ93.00000°. NP2:ϕ_s101.00000°,δ34.00000°,λ86.00000°. Principal axes: T 1.1840,Plg79.0000°,Azm206.0000° ; N 0.0510,Plg2.0000°,Azm104.0000°; P -1.2370,Plg11.0000°,Azm14.0000° $M_0$1.21000×10^{17}

(269) Southern Molucca Sea

ISC	**I**	**08 04 10 57.3–.30**	**0.07S–.02**	**124.95E–.03**	**63–2**	**5.5b**	**1193**	**2-168**
BJI	I	08 04 10 50.5	0.57S	125.15E	61	5.5b,5.4b		**¶15909054**
MOS	I	08 04 10 52.4–1.2	0.03N	124.87E	33	5.8b,4.7s		
IDC	I	08 04 10 53.7–1.5	0.02S	124.75E	33–10	5.3,5.1L		
GCMT	I	08 04 10 56.7–.10	0.15S	125.04E	45–0	5.7W,5.1L		
ISCJB	I	08 04 10 56.6–.24	0.08S–.01	125.01E–.01	74–2	5.4b,5.1L		
NEIC	I	08 04 10 56.7–.54	0.03S	124.91E	57–5	5.6b,5.1L		
KLM	I	08 04 10 57.8	0.03S	125.02E	76	6.6s,5.6b		
DJA	I	08 04 10 58.9–.10	0S–2.0	125E–1.0	71–2	6.2,5.9b		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c222; s112,c285;Duration: 1s6 Moment tensor: Scale 10^{17} Nm; M_{rr}3.00±.04 $M_{\theta\theta}$-1.55±.03; $M_{\phi\phi}$-1.45±.04; $M_{r\theta}$0.72±.03; $M_{\theta\phi}$-1.77±.03; $M_{\phi r}$1.83±.04; Best double couple: NP1:ϕ_s33.00000°,δ61.00000°,λ77.00000°. NP2:ϕ_s239.00000°,δ32.00000°,λ113.00000°. Principal axes: T 3.6570,Plg71.0000°,Azm273.0000° ; N 0.1020,Plg12.0000°,Azm39.0000°; P -3.7590,Plg15.0000°,Azm133.0000° $M_0$3.70800×10^{17}
ISCJB Event type se.
NEIC Event type se.

(265) Minahassa Peninsula, Sulawesi

ISC	**I**	**10 08 35 35.3–.38**	**0.82N–.03**	**123.29E–.03**	**64–3**	**4.9b**	**405**	**0-155**
BJI	I	10 08 35 29.6	0.18N	123.77E	79	5.2b,5.0b		**¶15914939**
MOS	I	10 08 35 31.1–1.0	0.88N	123.41E	43	5.0b,5.0b		

NEIC	I	10 08 35 34.9–.19	0.83N	123.31E	60	5.1b,5.0b			
IDC	I	10 08 35 34.2–.52	0.78N	123.42E	60–4	4.7,4.5			
ISCJB	I	10 08 35 34.3–.25	0.82N–.02	123.33E–.02	70–2	4.8b,4.5			
GCMT	I	10 08 35 36.7–.40	1.06N	123.27E	35–1	4.9W,4.5			
DJA	I	10 08 35 36.9–.10	1N–2.0	123E–1.0	50	5.6b,5.2			
ISC	Event type fe.								
NEIC	Event type fe. Felt [IV] at Gorontalo.								
ISCJB	Event type fe.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s63,c90;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.28±.21 $M_{\theta\theta}$2.10±.12; $M_{\phi\phi}$0.17±.14; $M_{r\theta}$-1.73±.12; $M_{\theta\phi}$-0.09±.09; $M_{\phi r}$0.48±.17; Best double couple: NP1:ϕ_s100.00000°,δ65.00000°,λ-84.00000°. NP2:ϕ_s266.00000°,δ26.00000°,λ-103.00000°. Principal axes: T 2.7240,Plg19.0000°,Azm186.0000°; N 0.2090,Plg6.0000°,Azm278.0000° ; P -2.9400,Plg70.0000°,Azm23.0000° M_o2.83200×10^{16}								
	(213) Volcano Islands region								
ISC	**I**	**10 10 24 20.7–.23**	**23.16N–.03**	**143.15E–.03**	**87–1**	**5.7b**	**1414**	**4-167**	
NIED	I	10 10 24 00	23.70N	143.80E	74	5.8W			**¶15915784**
ISCJB	I	10 10 24 17.9–.37	23.16N–.02	143.17E–.02	72–3	5.6b			
MOS	I	10 10 24 18.9–.89	23.09N	143.06E	83	5.6b,4.7s			
NEIC	I	10 10 24 21.0–.60	23.08N	143.17E	87–5	5.7b,5.6W			
IDC	I	10 10 24 20.7–.36	23.10N	143.15E	88–3	5.4,5.1			
GCMT	I	10 10 24 21.0–.10	23.25N	143.12E	92–0	5.6W,5.1			
BJI	I	10 10 24 21.4	23.53N	142.90E	74	5.5b,5.3b			
JMA	I	10 10 24 23.6–.10	23.72N	143.82E	147–1	6.0,5.3b			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ9.00000°,λ-142.00000°. NP2:ϕ_s355.00000°,δ85.00000°,λ-83.00000°. M_o5.84000×10^{17}								
ISCJB	Event type fe. Error ellipse: s-maj=2.6km s-min=2.2km az=147.3.								
MOS	Error ellipse: s-maj=7.6km s-min=4.1km az=100.5.								
NEIC	Event type fe. Error ellipse: s-maj=3.4km s-min=2.8km az=111.0. Recorded [1 JMA] in the Chichijima-retto and Hahajima-retto. Moment Tensor Solution. s39 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$-1.03 $M_{\phi\phi}$0.06 $M_{r\theta}$-2.06 $M_{\theta\phi}$-1.39 $M_{\phi r}$0.83 Best double couple: NP1: ϕ_s23.00000°,δ36.00000°,λ21.00000°. NP2:ϕ_s276.00000°,δ78.00000°,λ124.00000°. Principal axes: T 3.0000,Plg46.0000°,Azm221.0000°; N -0.4300,Plg33.0000°,Azm88.0000° ; P -2.5700,Plg25.0000°,Azm340.0000° M_o2.80000×10^{17}								
IDC	Error ellipse: s-maj=9.6km s-min=6.1km az=96.0.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c226; s127,c295;Duration: 1$\hat{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.96±.03 $M_{\theta\theta}$-1.28±.04; $M_{\phi\phi}$0.32±.04; $M_{r\theta}$-2.00±.02; $M_{\theta\phi}$-2.13±.03; $M_{\phi r}$0.78±.03; Best double couple: NP1: ϕ_s275.00000°,δ77.00000°,λ136.00000°. NP2:ϕ_s17.00000°,δ47.00000°,λ18.00000°. Principal axes: T 3.3040,Plg40.0000°,Azm226.0000°; N -0.1360,Plg44.0000°,Azm82.0000° ; P -3.1670,Plg19.0000°,Azm332.0000° M_o3.23500×10^{17}								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.								
	(280) Banda Sea								
ISC	**I**	**11 00 26 28.9–.41**	**5.22S–.03**	**129.99E–.04**	**195–3**	**5.0b**	**445**	**1-159**	
BJI	I	11 00 26 23.6	5.63S	130.27E	195	5.0b,4.8b			**¶15917537**
MOS	I	11 00 26 25.9–1.0	5.24S	129.84E	180	5.1b,4.8b			
ISCJB	I	11 00 26 28.0–.23	5.26S–.02	130.06E–.02	201–2	4.9b,4.8b			
IDC	I	11 00 26 29.0–1.0	5.26S	129.92E	192–9	5.2,4.7			
GCMT	I	11 00 26 29.2–.40	5.25S	130.21E	209–4	4.9W,4.7			
DJA	I	11 00 26 29.6–.20	5S–2.0	130E–1.0	185–4	6.0,5.6b			
NEIC	I	11 00 26 29.2–.42	5.30S	129.99E	199–4	5.0b,5.6b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=11.2km s-min=6.2km az=107.4.								
ISCJB	Event type se. Error ellipse: s-maj=3.4km s-min=3.1km az=161.8.								
IDC	Error ellipse: s-maj=10.7km s-min=7.0km az=85.0.								
GCMT	Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s67,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.55±.13 $M_{\theta\theta}$-0.88±.15; $M_{\phi\phi}$2.43±.16; $M_{r\theta}$-2.04±.10; $M_{\theta\phi}$-1.13±.12; $M_{\phi r}$0.51±.12; Best double couple: NP1:ϕ_s128.00000°,δ70.00000° ,λ-130.00000°. NP2:ϕ_s16.00000°,δ44.00000°,λ-29.00000°. Principal axes: T 3.0860,Plg16.0000°,Azm246.0000°; N 0.2180,Plg37.0000°,Azm144.0000° ; P -3.3040,Plg48.0000°,Azm355.0000° M_o3.19500×10^{16}								
NEIC	Event type se. Error ellipse: s-maj=4.9km s-min=3.5km az=65.0.								
	(186) Vanuatu Islands								
ISC	**I**	**11 09 16 09.6–.29**	**13.31S–.04**	**167.24E–.04**	**224–2**	**5.5b**	**1241**	**8-170**	
IDC	I	11 09 16 08.4–.69	13.25S	167.20E	209–5	5.6,5.1			**¶16019195**
MOS	I	11 09 16 08.6–1.0	13.08S	167.09E	215	5.5b,5.1			
NEIC	I	11 09 16 09.6–1.8	13.27S	167.21E	222–3	5.5W,5.4b			
ISCJB	I	11 09 16 09.6–.79	13.24S–.02	167.20E–.02	235–7	5.4b,5.4b			
GCMT	I	11 09 16 09.6–.10	13.18S	167.05E	226–0	5.5W,5.4b			
BJI	I	11 09 16 11.2	12.74S	167.07E	228	5.5b,5.3b			
ISC	Event type se.								
IDC	Error ellipse: s-maj=7.0km s-min=6.4km az=115.0.								
MOS	Error ellipse: s-maj=9.1km s-min=7.1km az=110.5.								
NEIC	Event type se. Error ellipse: s-maj=12.8km s-min=11.6km az=69.0. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-2.32 $M_{r\theta}$-0.65 $M_{\theta\phi}$0.32 $M_{\phi r}$0.14 Best double couple: NP1:ϕ_s338.00000°,δ50.00000°,λ71.00000°. NP2:ϕ_s186.00000° ,δ44.00000°,λ111.00000°. Principal axes: T 2.4900,Plg75.0000°,Azm183.0000° ; N -0.1200,Plg14.0000°,Azm351.0000°; P -2.3700,Plg3.0000°,Azm82.0000° M_o2.40000×10^{17}								
ISCJB	Event type se. Error ellipse: s-maj=3.5km s-min=3.2km az=29.2.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s107,c185; s121,c217; Duration: 1$\hat{s}$4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.21±.03 $M_{\theta\theta}$0.25±.03; $M_{\phi\phi}$-2.46±.03; $M_{r\theta}$-0.73±.03; $M_{\theta\phi}$-0.03±.03; $M_{\phi r}$-0.08±.03; Best double couple: NP1:ϕ_s198.00000° ,δ49.00000°,λ115.00000°. NP2:ϕ_s343.00000°,δ47.00000°,λ64.00000°. Principal axes: T 2.4520,Plg72.0000°,Azm177.0000°; N 0.0100,Plg18.0000°,Azm1.0000° ; P -2.4620,Plg1.0000°,Azm271.0000° M_o2.45700×10^{17}								
	(248) Philippine Islands region								
ISC	**I**	**13 10 20 42.0–.57**	**6.24N–.03**	**127.08E–.04**	**80–4**	**5.0b**	**349**	**1-169**	
MOS	I	13 10 20 37.4–1.1	6.31N	127.09E	52	5.3b			**¶15925950**
ISCJB	I	13 10 20 40.5–.34	6.23N–.02	127.15E–.03	85–3	5.0b			
IDC	I	13 10 20 40.1–1.6	6.22N	127.00E	62–13	4.9,4.7			
DJA	I	13 10 20 41.9–.60	6N–5.0	127E–4.0	71–6	5.6,5.5b			
MAN	I	13 10 20 41	6.18N	127.02E	61	5.5b,4.8s			
KLM	I	13 10 20 41.5	6.36N	127.30E	64	6.4s,5.1b			
BJI	I	13 10 20 42.8	6.23N	127.14E	110	5.1b,4.9b			
NEIC	I	13 10 20 43.1–.74	6.21N	127.04E	90–7	5.1b,4.9b			
GCMT	I	13 10 20 43.2–.30	6.16N	127.21E	63–2	5.0W,4.9b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=13.0km s-min=5.8km az=111.9.								
ISCJB	Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=155.2.								
IDC	Error ellipse: s-maj=14.2km s-min=8.0km az=81.0.								
NEIC	Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=76.0.								
GCMT	Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c45; s76,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.58±.15 $M_{\theta\theta}$0.69±.12; $M_{\phi\phi}$-3.27±.12; $M_{r\theta}$1.35±.07; $M_{\theta\phi}$-1.31±.10; $M_{\phi r}$1.22±.12; Best double couple: NP1:ϕ_s37.00000°,δ62.00000° ,λ114.00000°. NP2:ϕ_s173.00000°,δ36.00000°,λ53.00000°. Principal axes: T 3.3230,Plg65.0000°,Azm349.0000°; N 0.7190,Plg21.0000°,Azm205.0000° ; P -4.0400,Plg14.0000°,Azm109.0000° M_o3.68200×10^{16}								
	(269) Southern Molucca Sea								
ISC	**I**	**13 23 04 00.8–.49**	**0.24S–.03**	**124.08E–.04**	**84–4**	**4.9b**	**353**	**1-163**	
MOS	I	13 23 03 56.1–1.1	0.11S	124.01E	58	5.1b			**¶15925979**
BJI	I	13 23 03 59.1	0.20S	124.10E	81	5.2b,5.0b			
IDC	I	13 23 03 59.7–1.7	0.17S	123.97E	74–15	4.8,4.6			
ISCJB	I	13 23 04 00.6–.37	0.22S–.03	124.15E–.02	99–3	4.8b,4.6			
KLM	I	13 23 04 01.9	0.36S	124.33E	81	6.6s,5.1b			
NEIC	I	13 23 04 02.2–.76	0.21S	124.01E	96–7	4.9b,5.1b			
DJA	I	13 23 04 03.5–1.0	0S–4.0	124E–2.0	37–12	5.6b,5.3			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
	(280) Banda Sea								
ISC	**I**	**14 16 39 29.4–.32**	**7.03S–.03**	**129.18E–.04**	**170–2**	**5.0b**	**724**	**2-168**	
BJI	I	14 16 39 24.3	7.34S	129.43E	169	5.0b,4.8b			**¶15928096**
MOS	I	14 16 39 27.7–1.2	6.86S	129.10E	161	5.0b,4.0s			
KLM	I	14 16 39 29.7	7.23S	129.31E	168	6.3s,5.6b			
IDC	I	14 16 39 29.9–.48	6.91S	129.22E	169–3	5.2,4.7			
NEIC	I	14 16 39 29.3–.15	6.96S	129.23E	168	5.4b,4.7			
ISCJB	I	14 16 39 29.6–.28	7.03S–.02	129.23E–.02	187–2	5.0b,4.7			
GCMT	I	14 16 39 29.3–.10	6.99S	129.21E	178–1	5.4W,4.7			
DJA	I	14 16 39 30.6–.20	7S–2.0	129E–2.0	166–5	6.1,5.9			
ISC	Event type fe.								
NEIC	Event type fe. Felt [II] at Darwin, Australia.								
ISCJB	Event type fe.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c131; s104,c192;Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.54±.02 $M_{\theta\theta}$-0.77±.02; $M_{\phi\phi}$1.31±.02; $M_{r\theta}$0.52±.02; $M_{\theta\phi}$0.06±.02; $M_{\phi r}$0.78±.02; Best double couple: NP1:ϕ_s215.00000°,δ76.00000°,λ-50.00000°. NP2:ϕ_s321.00000° ,δ42.00000°,λ-159.00000°. Principal axes: T 1.6150,Plg21.0000°,Azm276.0000° ; N -0.3450,Plg38.0000°,Azm24.0000°; P -1.2690,Plg44.0000°,Azm164.0000° M_o1.44200×10^{17}								
	(280) Banda Sea								
ISC	**I**	**15 12 56 26.9–.25**	**5.62S–.03**	**130.29E–.03**	**202–1**	**5.4b**	**1075**	**1-168**	
IDC	I	15 12 56 25.9–.58	5.65S	130.27E	193–5	5.4,4.9			**¶15931134**
ISCJB	I	15 12 56 25.9–.23	5.67S–.02	130.33E–.02	208–2	5.3b,4.9			
MOS	I	15 12 56 25.1–.95	5.59S	130.21E	200	5.4b,4.4s			
BJI	I	15 12 56 25.4	5.61S	130.48E	212	5.3b,5.2b			
GCMT	I	15 12 56 26.8–.10	5.58S	130.26E	196–0	5.7W,5.2b			
NEIC	I	15 12 56 26.8–.40	5.65S	130.25E	199–3	5.7W,5.5b			
DJA	I	15 12 56 27.4–.10	6S–2.0	130E–1.0	192–2	6.5,5.9			
ISC	Event type fe.								
ISCJB	Event type fe.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c235; s135,c371;Duration: 1$\hat{s}$8 Moment tensor: Scale 10^{17} Nm; M_{rr}-2.80±.04 $M_{\theta\theta}$2.30±.04; $M_{\phi\phi}$0.50±.05; $M_{r\theta}$-2.34±.04; $M_{\theta\phi}$-1.57±.04; $M_{\phi r}$2.83±.04; Best double couple: NP1:ϕ_s136.00000°,δ71.00000°,λ-78.00000°. NP2:ϕ_s283.00000° ,δ22.00000°,λ-121.00000°. Principal axes: T 4.8300,Plg25.0000°,Azm217.0000° ; N -0.1460,Plg11.0000°,Azm312.0000°; P -4.6830,Plg62.0000°,Azm64.0000° M_o4.75700×10^{17}								
NEIC	Event type fe. Felt [II] at Darwin, Australia. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.42 $M_{\theta\theta}$1.52 $M_{\phi\phi}$1.91 $M_{r\theta}$-1.57 $M_{\theta\phi}$-0.90 $M_{\phi r}$2.05 Best double couple: NP1:ϕ_s321.00000°,δ25.00000°,λ-91.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ-90.00000°. Principal axes: T 3.5800,Plg20.0000°,Azm232.0000°; N 0.8000,Plg0.0000°,Azm322.0000° ; P -4.3700,Plg70.0000°,Azm53.0000° M_o4.00000×10^{17}								
	(173) Tonga Islands								
ISC	**I**	**15 18 54 04.7–.26**	**17.17S–.06**	**174.30W–.06**	**172**	**4.8b**	**756**	**4-174**	
BJI	I	15 18 53 50.6	17.23S	173.57W	83	5.6s,5.5b			**¶15931166**
MOS	I	15 18 53 56.7–1.6	17.03S	174.32W	99	4.9b,5.5b			
NEIC	I	15 18 53 58.9–1.1	17.18S	174.40W	118–10	5.0b,5.5b			
GCMT	I	15 18 53 58.9–.30	17.31S	173.98W	146–3	5.0W,5.5b			
IDC	I	15 18 54 01.5–.58	17.20S	174.29W	142–4	4.9,4.6			
ISCJB	I	15 18 54 03.4–.11	17.26S–.03	174.43W–.03	172	4.8b,4.6			
ISC	Event type se.								
NEIC	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c20; s84,c108;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.63±.12 $M_{\theta\theta}$-0.50±.18; $M_{\phi\phi}$3.13±.16; $M_{r\theta}$1.09±.12; $M_{\theta\phi}$-0.30±.18; $M_{\phi r}$1.03±.12; Best double couple: NP1:ϕ_s197.00000°,δ58.00000°,λ-64.00000°. NP2:ϕ_s334.00000°,δ40.00000°,λ-125.00000°. Principal axes: T 3.3120,Plg10.0000°,Azm268.0000°; N -0.0430,Plg22.0000°,Azm2.0000° ; P -3.2660,Plg66.0000°,Azm156.0000° M_o3.28900×10^{16}								
ISCJB	Event type se.								
	(221) Kuril Islands								
ISC	**I**	**16 03 35 44.6–.71**	**44.09N–.04**	**147.86E–.05**	**88–5**	**4.5b**	**258**	**1-115**	
NIED	I	16 03 35 00	43.90N	148.00E	74	4.2W			**¶15931175**
IDC	I	16 03 35 42.8–2.3	44.15N	147.86E	67–20	4.4,4.3			
MOS	I	16 03 35 43.6–.97	44.27N	147.88E	83	4.5b,4.3			
ISCJB	I	16 03 35 43.2–.41	44.08N–.03	147.93E–.04	85–3	4.4b,4.3			
BJI	I	16 03 35 43.2	44.04N	148.14E	99	5.0b,4.5b			
NEIC	I	16 03 35 44.9–.59	44.14N	147.91E	86–5	4.6b,4.5b			
SKHL	I	16 03 35 44.8–.80	44.06N	147.91E	92–4	6.1s,5.4b			
JMA	I	16 03 35 44.6–.20	43.86N	147.97E	62	5.1,5.4b			
ISC	Event type fe.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ60.00000°,λ19.00000°. NP2:ϕ_s61.00000°,δ74.00000°,λ148.00000°. M_o2.24000×10^{15}								
IDC	Error ellipse: s-maj=17.2km s-min=10.5km az=163.0.								
MOS	Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=104.9. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.								
ISCJB	Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=144.4.								
NEIC	Event type fe. Error ellipse: s-maj=6.7km s-min=4.0km az=154.0. Felt [II] at Yuzhno-Kuril'sk. Recorded [2 JMA] in eastern Hokkaido.								
SKHL	Event type fe. Felt (II) at Yushno-Kurillsk.								
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.								
	(280) Banda Sea								
ISC	**I**	**16 11 59 53.3–.35**	**6.56S–.03**	**129.04E–.03**	**222–2**	**5.2b**	**824**	**2-161**	
MOS	I	16 11 59 50.1–1.1	6.52S	129.02E	205	5.1b			**¶15931189**
BJI	I	16 11 59 50.8	6.71S	129.19E	229	5.0b,5.0b			
ISCJB	I	16 11 59 52.0–.24	6.62S–.02	129.03E–.02	223–2	5.1b,5.0b			
DJA	I	16 11 59 51.2–.20	7S–2.0	129E–2.0	106–5	6.0b,5.9			
GCMT	I	16 11 59 52.7–.20	6.60S	129.06E	216–1	5.2W,5.9			
NEIC	I	16 11 59 52.7–.38	6.56S	128.99E	213–3	5.3b,5.9			
IDC	I	16 11 59 54.3–.81	6.55S	129.06E	230–6	5.3,4.7			
KLM	I	16 12 00 06.8	6.82S	128.58E	368	6.3s,5.5b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=11.1km s-min=6.6km az=108.2.								
ISCJB	Event type se. Error ellipse: s-maj=3.5km s-min=2.6km az=149.2.								
GCMT	Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c76; s95,c153; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.99±.19 $M_{\theta\theta}$-2.52±.20; $M_{\phi\phi}$3.51±.21; $M_{r\theta}$-3.76±.16; $M_{\theta\phi}$7.74±.18; $M_{\phi r}$0.82±.18; Best double couple: NP1:ϕ_s77.00000°,δ80.00000° ,λ-23.00000°. NP2:ϕ_s172.00000°,δ67.00000°,λ-169.00000°. Principal axes: T 9.0270,Plg9.0000°,Azm126.0000°; N 0.3250,Plg65.0000°,Azm236.0000° ; P -9.3530,Plg23.0000°,Azm32.0000° M_o9.19000×10^{16}								
NEIC	Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=48.0.								
IDC	Error ellipse: s-maj=10.3km s-min=7.0km az=67.0.								
	(266) Northern Molucca Sea								
ISC	**I**	**17 17 24 25.4–.31**	**0.40N–.04**	**125.43E–.04**	**73**	**4.6b**	**165**	**2-154**	
MOS	I	17 17 24 21.2–1.1	0.44N	125.33E	51	4.9b			**¶15933574**
IDC	I	17 17 24 22.6–2.0	0.43N	125.35E	47–19	4.5,4.3			
BJI	I	17 17 24 23.0	0.50N	125.50E	74	5.1b,4.8b			
ISCJB	I	17 17 24 23.2–.18	0.40N–.03	125.45E–.03	73	4.6b,4.8b			
DJA	I	17 17 24 25.1–.30	0N–4.0	125E–2.0	58–10	5.1b,5.1b			
NEIC	I	17 17 24 25.3–.82	0.42N	125.44E	76–8	4.6b,5.1b			
KLM	I	17 17 24 25.0	0.58N	125.61E	81	5.9s,4.9b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=14.2km s-min=6.9km az=110.5.								
IDC	Error ellipse: s-maj=15.7km s-min=7.3km az=78.0.								
ISCJB	Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=138.8.								
NEIC	Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=61.0.								
	(135) Near coast of central Chile								
ISC	**I**	**17 23 29 51.0–.27**	**30.31S–.03**	**71.26W–.05**	**68–1**	**5.1b**	**625**	**0-176**	
MOS	I	17 23 29 48.0–1.1	30.29S	71.28W	53	4.8b			**¶15933577**
GUC	I	17 23 29 49.7–.87	30.32S	71.51W	65–15	5.3L			
NEIC	I	17 23 29 49.0	30.32S	71.51W	65	5.1b			
GCMT	I	17 23 29 49.0–.30	30.51S	71.62W	90–5	5.0W			
ISCJB	I	17 23 29 49.6–.49	30.29S–.02	71.23W–.05	70–4	5.0b			
IDC	I	17 23 29 50.9–.33	30.31S	71.22W	70–2	4.7,4.6			
BJI	I	17 23 29 52.7	30.20S	71.20W	65	5.6s,5.4			
ISC	Event type fe.								
MOS	Error ellipse: s-maj=19.8km s-min=11.9km az=86.4.								
GUC	Error ellipse: s-maj=2.6km s-min=21.6km az=-1.0.								
NEIC	Event type fe. Felt [V] at Andacollo, Coquimbo, La Higuera, La Serena, Monte Patria, Ovalle and Rio Hurtado; [IV] at Paiguano, Punitaqui and Vicuna; [III] at Combarbala; [II] at Canela, Copiapo, Illapel, Salamanca and Tierra Amarilla. Also felt at Santiago and Vina del Mar. After GUC.								
GCMT	Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s71,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.20±.17 $M_{\theta\theta}$-1.11±.17; $M_{\phi\phi}$2.32±.21; $M_{r\theta}$0.89±.08; $M_{\theta\phi}$0.47±.16; $M_{\phi r}$-3.71±.11; Best double couple: NP1:ϕ_s345.00000°,δ79.00000° ,λ-106.00000°. NP2:ϕ_s223.00000°,δ19.00000°,λ-34.00000°. Principal axes:								

T 4.6680,Plg32.0000°,Azm89.0000°; N -0.7510,Plg16.0000°,Azm348.0000°
; P -3.9070,Plg53.0000°,Azm236.0000° $M_0$4.28700×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=175.4.
IDC Error ellipse: s-maj=12.1km s-min=10.9km az=99.0.

(354) Southwestern Pakistan

ISC	**I**	**18 20 23 25.6–.23**	**28.68N–.02**	**64.00E–.02**	**80–1**	**6.8b**	**3619**	**3-167**
IDC	I	18 20 23 16.0–.31	28.95N	63.97E	0	6.7,6.7s		**¶15938045**
THR	I	18 20 23 21.3–.59	28.04N	63.85E	44–13	6.7L,6.7s		
ISCJB	I	18 20 23 22.2–.24	28.70N–.02	63.98E–.01	72–2	6.6b,6.7s		
GCMT	I	18 20 23 23.5–.10	28.61N	63.90E	52–0	7.2W,6.7s		
NEIC	I	18 20 23 23.5–.14	28.78N	63.95E	68	7.3,7.2W		
DSN	I	18 20 23 23.2–.66	28.77N	64.10E	50	7.2s,6.9b		
MOS	I	18 20 23 23.7–1.3	28.84N	63.89E	78	7.0b,6.8s		
PDA	I	18 20 23 23.2	28.73N	63.93E	68	6.7b,6.8s		
BJI	I	18 20 23 24.0	28.83N	64.09E	72	7.3b,7.1s		
NEIC	I	18 20 23 24.0–.00	28.68N	63.84E	60	7.3b,7.1s		
CSEM	I	18 20 23 24.9–.07	28.78N	63.98E	80	7.3W,7.1s		
SFS	I	18 20 23 25.0	28.81N	63.97E	80	7.2L,7.1s		
OMAN	I	18 20 23 26.9–.00	28.72N	63.87E	84	7.2L,7.1s		
TEH	I	18 20 23 28.0	28.87N	63.97E	101	7.2L,7.1s		

ISC Event type de.
IDC Error ellipse: s-maj=6.9km s-min=5.8km az=168.0.
THR Error ellipse: s-maj=12.4km s-min=10.6km az=-1.0.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.3km az=21.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=150s. Moment Tensor Solution. s142,c377; s138,c656;Duration: 10s1 Moment tensor: Scale 10^{20}Nm; M_{rr}-0.64±.00 $M_{\theta\theta}$0.54±.00; $M_{\phi\phi}$0.10±.00; $M_{r\theta}$0.29±.01; $M_{\theta\phi}$0.41±.00; $M_{\phi r}$0.42±.01; Best double couple: NP1:ϕ_s224.00000°,δ63.00000°,λ-107.00000°. NP2:ϕ_s77.00000°,δ31.00000°,λ-60.00000°. Principal axes: T 0.9240,Plg17.0000°,Azm326.0000°; N -0.0880,Plg15.0000°,Azm231.0000° ; P -0.8360,Plg67.0000°,Azm102.0000° $M_0$0.88000×10^{20}
NEIC Event type de. Error ellipse: s-maj=4.9km s-min=3.1km az=14.0. One person killed at Garhi Khairo and two people died from heart attacks, one each at Jacobabad and Quetta. Several people injured and at least 200 buildings damaged [V] in Balochistan, especially in the Dalbandin area. Damage also occurred in Sindh and in southern Punjab. Felt [IV] at Bahawalpur, Karachi and Quetta; [III] at Hyderabad, Islamabad, Khairpur and Lahore. Slight damage occurred in parts of western India. Felt [IV] at Ghaziabad, Gurgaon, New Delhi and Pilani; [III] at Amritsar, Chandigarh, Delhi, Jaipur and Noida. Felt [IV] at Chenaran and [III] at Bandar 'Abbas and Zahedan, Iran. Also felt [IV] at Ra's al Khaymah and [III] at Abu Dhabi, Ajman, Dubai and Sharjah, United Arab Emirates. Felt [III] at Kabul and Kandahar, Afghanistan, at Manama, Bahrain and at Muscat, Oman. Felt [II] at Doha, Qatar and at Riyadh, Saudi Arabia. Felt in 11 countries of southern Asia from Ashgabat, Turkmenistan and Samarqand, Uzbekistan to Bangalore, India and from Haridwar, India to Buraydah, Saudi Arabia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s84 Moment tensor: Scale 10^{19}Nm; M_{rr}-3.17 $M_{\theta\theta}$2.53 $M_{\phi\phi}$0.64 $M_{r\theta}$1.09 $M_{\theta\phi}$2.63 $M_{\phi r}$3.36 Best double couple: NP1:ϕ_s82.00000°,δ33.00000°,λ-42.00000°. NP2:ϕ_s209.00000°,δ69.00000°,λ-116.00000°. Principal axes: T 5.3900,Plg20.0000°,Azm318.0000°; N -0.2400,Plg24.0000°,Azm219.0000° ; P -5.1500,Plg58.0000°,Azm84.0000° $M_0$5.30000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ14.00000°,λ-45.00000°. NP2: ϕ_s225.00000°,δ80.00000°,λ-100.00000°. Principal axes: T Plg34.0000°,Azm324.0000° ; N Plg0.0000°,Azm0.0000°; P Plg54.0000°,Azm123.0000°
DSN Error ellipse: s-maj=11.9km s-min=7.1km az=134.0.
MOS Error ellipse: s-maj=4.7km s-min=3.0km az=115.3. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s215.00000°,δ71.00000°,λ-100.00000°. NP2: ϕ_s64.00000°,δ21.00000°,λ-63.00000°. Principal axes: T Plg25.0000°,Azm313.0000° ; N Plg9.0000°,Azm219.0000°; P Plg63.0000°,Azm110.0000°
NEIC Event type se. Moment Tensor Solution. s135 Moment tensor: Scale 10^{19}Nm; M_{rr}-6.14 $M_{\theta\theta}$5.26 $M_{\phi\phi}$0.88 $M_{r\theta}$2.60 $M_{\theta\phi}$3.95 $M_{\phi r}$4.55 Best double couple: NP1:ϕ_s221.00000°,δ65.00000°,λ-109.00000°. NP2:ϕ_s80.00000°,δ32.00000°,λ-54.00000°. Principal axes: T 9.0100,Plg17.0000°,Azm325.0000°; N -0.6000,Plg17.0000°,Azm229.0000° ; P -8.4100,Plg64.0000°,Azm96.0000° $M_0$8.70000×10^{19}
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=10.0.
SFS Event type ke.
OMAN Error ellipse: s-maj=1.4km s-min=1.2km az=350.0.

(280) Banda Sea

ISC	**I**	**20 13 01 10.2–.66**	**6.05S–.07**	**130.74E–.08**	**150**	**4.0b**	**33**	**2-129**
IDC	I	20 13 01 05.8–7.0	5.86S	130.86E	96–67	4.5L,4.3		**¶16151941**
NEIC	I	20 13 01 07.6–1.4	6.05S	130.44E	108–15	4.4b,4.3		
ISCJB	I	20 13 01 08.8–.42	6.02S–.04	130.73E–.06	150	4.0b,4.3		
DJA	I	20 13 01 10.8–.50	6S–4.0	131E–4.0	127–15	5.6b,5.1		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(267) Halmahera

ISC	**I**	**21 08 11 08.0–.38**	**1.55N–.03**	**127.22E–.04**	**105–3**	**5.0b**	**485**	**1-167**
MOS	I	21 08 11 05.7–1.1	1.56N	127.23E	97	5.1b		**¶15948013**
BJI	I	21 08 11 05.6	1.35N	127.28E	111	5.0b,5.0b		
ISCJB	I	21 08 11 06.2–.29	1.59N–.02	127.26E–.02	102–2	5.0b,5.0b		
IDC	I	21 08 11 07.2–1.3	1.51N	127.25E	101–11	4.8,4.5		
KLM	I	21 08 11 07.3	1.46N	127.14E	100	5.7s,5.4b		
NEIC	I	21 08 11 07.6–.45	1.54N	127.25E	103–4	5.2b,5.4b		
DJA	I	21 08 11 07.7–.30	2N–2.0	127E–2.0	88–4	6.0,5.5b		
GCMT	I	21 08 11 07.6–.30	1.69N	127.18E	90–3	4.9W,5.5b		

ISC Event type se.
MOS Error ellipse: s-maj=11.1km s-min=5.6km az=110.3.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.5km az=150.4.
IDC Error ellipse: s-maj=13.8km s-min=7.2km az=71.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=58.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c33; s72,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.34±.13 $M_{\theta\theta}$0.67±.12; $M_{\phi\phi}$-3.01±.13; $M_{r\theta}$-1.04±.08; $M_{\theta\phi}$-0.89±.14; $M_{\phi r}$-0.79±.12; Best double couple: NP1:ϕ_s213.00000°,δ59.00000°,λ116.00000°. NP2:ϕ_s350.00000°,δ40.00000°,λ54.00000°. Principal axes: T 2.8580,Plg66.0000°,Azm172.0000°; N 0.5370,Plg22.0000°,Azm19.0000° ; P -3.3950,Plg10.0000°,Azm285.0000° $M_0$3.12700×10^{16}

(221) Kuril Islands

ISC	**I**	**22 00 46 59.6–.43**	**48.29N–.05**	**152.96E–.04**	**151–3**	**4.6b**	**483**	**3-148**
BJI	I	22 00 46 56.7	48.33N	153.28E	156	4.9b,4.9b		**¶15954797**
ISCJB	I	22 00 46 57.8–.28	48.28N–.03	152.96E–.03	143–2	4.5b,4.9b		
SKHL	I	22 00 46 57.9–1.5	48.01N	153.41E	141–5	5.6s,5.2b		
IDC	I	22 00 46 59.4–.59	48.36N	152.93E	146–4	4.6,4.2		
MOS	I	22 00 46 59.9–1.0	48.38N	152.95E	167	4.5b,4.2		
KRSC	I	22 00 46 59.4–2.3	47.97N	154.48E	188–18	5.1L,4.2		
NEIC	I	22 00 47 00.7–.33	48.38N	152.86E	154–2	4.7b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.2km az=147.1.
IDC Error ellipse: s-maj=11.0km s-min=7.3km az=158.0.
MOS Error ellipse: s-maj=6.7km s-min=4.0km az=76.2.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=2.4km az=158.0.

(280) Banda Sea

ISC	**I**	**22 14 18 15.6–.35**	**4.79S–.04**	**129.28E–.05**	**200**	**4.5b**	**187**	**1-148**
BJI	I	22 14 18 10.4	5.23S	129.81E	215	4.7b,4.5b		**¶15959221**
ISCJB	I	22 14 18 14.2–.22	4.72S–.02	129.43E–.03	200	4.5b,4.5b		
NEIC	I	22 14 18 16.1–.81	4.72S	129.22E	211–8	4.8b,4.5b		
KLM	I	22 14 18 16.1	4.73S	129.58E	220	5.7s,5.0b		
IDC	I	22 14 18 17.7–1.4	4.71S	129.41E	217–14	4.7,4.1		
DJA	I	22 14 18 18.5–.20	5S–2.0	129E–2.0	226–2	5.2b,5.0		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(267) Halmahera

ISC	**I**	**22 14 56 10.2–.41**	**2.54N–.03**	**128.30E–.04**	**161–3**	**4.7b**	**298**	**2-159**
BJI	I	22 14 56 05.2	2.11N	128.58E	165	4.8b,4.6b		**¶15958003**
MOS	I	22 14 56 07.2–.95	2.59N	128.27E	152	4.7b,4.6b		
ISCJB	I	22 14 56 08.9–.38	2.57N–.02	128.34E–.03	164–3	4.7b,4.6b		
NEIC	I	22 14 56 08.9–.28	2.52N	128.32E	156	4.9b,4.6b		
IDC	I	22 14 56 09.8–.50	2.57N	128.30E	159–4	4.6,4.3		
KLM	I	22 14 56 10.7	2.57N	128.51E	165	6.2s,4.9b		
DJA	I	22 14 56 10.8–.30	3N–3.0	128E–2.0	154–3	5.3b,5.1b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(181) Fiji Islands region

ISC	**I**	**23 19 15 42.2–.26**	**20.43S–.03**	**176.22W–.03**	**231–2**	**5.7b**	**1884**	**6-177**
MOS	I	23 19 15 35.5–1.0	20.20S	176.26W	178	5.7b,4.3s		**¶16019253**
ISCJB	I	23 19 15 36.9–.70	20.34S–.02	176.27W–.02	191–6	5.8b,4.3s		
IDC	I	23 19 15 39.5–.76	20.31S	176.20W	202–6	5.8,5.4		
BJI	I	23 19 15 40.0	19.82S	176.25W	208	5.6b,5.6b		
GCMT	I	23 19 15 42.7–.10	20.43S	175.73W	235–0	5.8W,5.6b		
NEIC	I	23 19 15 42.7–.10	20.34S	176.29W	236	5.9W,5.7b		

ISC Event type fe.
MOS Error ellipse: s-maj=7.2km s-min=6.1km az=65.4.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=154.0.
IDC Error ellipse: s-maj=8.6km s-min=6.8km az=159.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c262; s138,c392;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80±.05 $M_{\theta\theta}$0.83±.06; $M_{\phi\phi}$-0.02±.06; $M_{r\theta}$-1.62±.05; $M_{\theta\phi}$-0.52±.06; $M_{\phi r}$-7.19±.05; Best double couple: NP1: ϕ_s12.00000°,δ89.00000°,λ-88.00000°. NP2:ϕ_s129.00000°,δ3.00000°,λ-153.00000°. Principal axes: T 6.8790,Plg44.0000°,Azm100.0000°; N 1.0070,Plg2.0000°,Azm192.0000° ; P -7.8860,Plg46.0000°,Azm285.0000° $M_0$7.38200×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=140.0. Felt at Nausori, Suva and Tubou. Also felt at Nuku'alofa, 'Ohonua and Vaini, Tonga. Moment Tensor Solution. s48 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.32 $M_{\theta\theta}$0.88 $M_{\phi\phi}$2.44 $M_{r\theta}$-1.79 $M_{\theta\phi}$0.18 $M_{\phi r}$-7.30 Best double couple: NP1:ϕ_s13.00000°,δ80.00000°,λ-89.00000°. NP2:ϕ_s186.00000° ,δ11.00000°,λ-97.00000°. Principal axes: T 7.6100,Plg35.0000°,Azm102.0000° ; N 0.8900,Plg1.0000°,Azm193.0000°; P -8.4900,Plg55.0000°,Azm285.0000° $M_0$8.10000×10^{17}

(153) South Sandwich Islands region

ISC	**I**	**23 22 52 58.2–.23**	**56.52S–.06**	**26.97W–.05**	**101**	**5.3b**	**329**	**6-162**
MOS	I	23 22 52 56.1–1.1	56.51S	26.92W	86	5.5b,4.1s		**¶16019254**
ISCJB	I	23 22 52 57.3–.22	56.44S–.04	26.94W–.08	101	5.2b,4.1s		
BJI	I	23 22 53 00.4	56.50S	26.90W	123	5.2b,4.1s		
GCMT	I	23 22 53 01.5–.20	56.66S	26.74W	111–1	5.3W,4.1s		
NEIC	I	23 22 53 01.5–.50	56.47S	26.96W	124–4	5.3b,4.1s		
IDC	I	23 22 53 01.5–.85	56.48S	26.91W	125–6	5.2,4.8		

ISC Event type se.
MOS Error ellipse: s-maj=21.3km s-min=11.0km az=99.6.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=139.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c93; s97,c156; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.17±.02 $M_{\theta\theta}$0.93±.03; $M_{\phi\phi}$-1.10±.02; $M_{r\theta}$-0.42±.01; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$0.16±.02; Best double couple: NP1:ϕ_s323.00000°,δ77.00000° ,λ22.00000°. NP2:ϕ_s228.00000°,δ69.00000°,λ166.00000°. Principal axes: T 1.1380,Plg24.0000°,Azm186.0000°; N -0.0150,Plg65.0000°,Azm352.0000° ; P -1.1280,Plg6.0000°,Azm94.0000° $M_0$1.13300×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.6km az=49.0.
IDC Error ellipse: s-maj=10.9km s-min=8.1km az=35.0.

(716) Kyrgyzstan

ISC	**I**	**24 02 45 30.5–.23**	**38.40N–.02**	**72.85E–.02**	**102–1**	**6.0b**	**2163**	**2-152**
BJI	I	24 02 45 26.6	38.40N	72.70E	90	5.7b,5.7s		**¶15959504**
SOME	I	24 02 45 26.5	39.10N	72.70E	20	5.5s,5.7s		
ISCJB	I	24 02 45 28.0–.22	38.40N–.01	72.82E–.01	89–1	5.9b,5.7s		
KRNET	I	24 02 45 27.8–.10	38.63N	72.81E		6.6b,5.7s		
IDC	I	24 02 45 29.4–.95	38.32N	72.84E	97–8	5.7,5.4		
NNC	I	24 02 45 29.8–1.9	38.50N	72.58E	154–26	6.2,5.8b		
MOS	I	24 02 45 29.8–.89	38.49N	72.85E	108	6.2b,5.4s		
NEIC	I	24 02 45 30.0–.00	38.46N	72.75E	110	6.2b,5.4s		
NEIC	I	24 02 45 31.5–.10	38.41N	72.79E	110	6.0W,6.0W		
GCMT	I	24 02 45 31.5–.10	38.50N	72.78E	119–0	6.1W,6.0W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.5km az=176.0.
IDC Error ellipse: s-maj=5.6km s-min=4.9km az=2.0.
NNC Event type se. Error ellipse: s-maj=19.2km s-min=11.3km az=170.0.
MOS Error ellipse: s-maj=4.4km s-min=3.1km az=117.7.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ82.00000° ,λ-53.00000°. NP2:ϕ_s126.00000°,δ37.00000°,λ-167.00000°. Principal axes: T 1.1600,Plg28.0000°,Azm87.0000°; N 0.4500,Plg37.0000°,Azm200.0000° ; P -1.6000,Plg41.0000°,Azm330.0000°
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=185.0. Felt [II] at Dushanbe. Also felt at Istaravshan and Khujand. Felt [III] at Tashkent, Uzbekistan. Felt [III] at Islamabad, Pakistan. Also felt at Abbottabad, Lahore and Peshawar. Felt [II] at Delhi, India. Also felt at Kargil, Ludhiana, Noida and Srinagar. Felt at Kunduz, Afghanistan; Kashi, China; Shymkent, Kazakhstan; Osh, Kyrgyzstan. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ74.00000° ,λ-63.00000°. NP2:ϕ_s132.00000°,δ31.00000°,λ-149.00000°. Principal axes: T 0.9800,Plg25.0000°,Azm84.0000°; N 0.3900,Plg26.0000°,Azm187.0000° ; P -1.3700,Plg53.0000°,Azm317.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s195.00000°,δ15.00000°,λ-90.00000°. NP2: ϕ_s15.00000°,δ75.00000°,λ-90.00000°. Principal axes: T Plg30.0000°,Azm105.0000° ; N Plg0.0000°,Azm0.0000°; P Plg60.0000°,Azm285.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c302; s140,c437;Duration: 2s6 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.27±.01 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.96±.01; $M_{r\theta}$-0.89±.01; $M_{\theta\phi}$-0.56±.01; $M_{\phi r}$-0.79±.01; Best double couple: NP1: ϕ_s27.00000°,δ81.00000°,λ-47.00000°. NP2:ϕ_s126.00000°,δ44.00000°,λ-167.00000°. Principal axes: T 1.3610,Plg24.0000°,Azm85.0000°; N 0.3670,Plg43.0000°,Azm199.0000° ; P -1.7280,Plg38.0000°,Azm335.0000° $M_0$1.54500×10^{18}

(207) Eastern New Guinea region

ISC	**I**	**26 08 01 29.6–.33**	**5.53S–.03**	**147.18E–.04**	**209–2**	**5.2b**	**853**	**3-154**
BJI	I	26 08 01 26.4	5.67S	147.58E	219	5.2b,5.0b		**¶16019261**
MOS	I	26 08 01 27.7–.87	5.41S	147.08E	199	5.4b,5.0b		
ISCJB	I	26 08 01 28.8–.50	5.46S–.02	147.11E–.03	210–4	5.1b,5.0b		
DJA	I	26 08 01 29.4–.60	5S–3.0	147E–4.0	180–8	5.7,5.6b		
IDC	I	26 08 01 29.1–.52	5.51S	147.17E	203–4	5.4,5.0		
GCMT	I	26 08 01 30.9–.20	5.55S	147.18E	209–1	5.3W,5.0		
NEIC	I	26 08 01 30.9–.49	5.48S	147.13E	221–4	5.2b,5.0		

ISC Event type se.
MOS Error ellipse: s-maj=9.2km s-min=5.3km az=98.7.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.6km az=145.4.
IDC Error ellipse: s-maj=8.9km s-min=5.8km az=92.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c94; s106,c164; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94±.02 $M_{\theta\theta}$-0.55±.02; $M_{\phi\phi}$-0.39±.03; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$0.45±.02; $M_{\phi r}$-0.29±.02; Best double couple: NP1:ϕ_s133.00000°,δ56.00000° ,λ93.00000°. NP2:ϕ_s307.00000°,δ34.00000°,λ85.00000°. Principal axes: T 1.0220,Plg79.0000°,Azm56.0000°; N -0.0180,Plg3.0000°,Azm311.0000° ; P -1.0040,Plg11.0000°,Azm221.0000° $M_0$1.01300×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=82.0.

(184) Santa Cruz Islands

ISC	**I**	**26 17 03 30.2–.26**	**11.04S–.03**	**166.36E–.03**	**153–1**	**5.5b**	**1372**	**7-170**
IDC	I	26 17 03 30.0–.46	11.04S	166.32E	150–3	5.5,5.3		**¶601990116**
ISCJB	I	26 17 03 30.3–.64	11.06S–.02	166.30E–.02	164–5	5.4b,5.3		
MOS	I	26 17 03 30.3–1.0	10.86S	166.24E	156	5.6b,5.3		
GCMT	I	26 17 03 30.1–.10	11.00S	166.25E	157–0	5.8W,5.3		
NEIC	I	26 17 03 30.1–.08	11.01S	166.30E	148	5.8b,5.3		
BJI	I	26 17 03 31.3	10.46S	166.31E	157	5.4b,5.4b		

ISC Event type se.
IDC Error ellipse: s-maj=8.2km s-min=6.8km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.7km az=167.8.
MOS Error ellipse: s-maj=6.6km s-min=5.8km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c229; s125,c353;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}4.07±.05 $M_{\theta\theta}$-1.41±.06; $M_{\phi\phi}$-2.66±.06; $M_{r\theta}$-0.66±.04; $M_{\theta\phi}$2.41±.06; $M_{\phi r}$-3.04±.04; Best double couple: NP1: ϕ_s167.00000°,δ63.00000°,λ116.00000°. NP2:ϕ_s301.00000°,δ37.00000°,λ50.00000°. Principal axes: T 5.5740,Plg63.0000°,Azm119.0000°; N -0.5510,Plg22.0000°,Azm334.0000° ; P -5.0220,Plg14.0000°,Azm238.0000° $M_0$5.29800×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.5km az=134.0.

(159) North Island

ISC	**I**	**27 15 02 46.4–.31**	**38.48S–.03**	**176.05E–.03**	**160–2**	**5.2b**	**678**	**0-179**
BJI	I	27 15 02 41.4	38.90S	176.83E	154	5.5b,5.1b		**¶15977996**
IDC	I	27 15 02 45.9–.30	38.43S	176.42E	161–2	5.3,4.9		
ISCJB	I	27 15 02 45.8–.12	38.49S–.02	175.92E–.03	157–1	5.2b,4.9		
NEIC	I	27 15 02 46.3–.15	38.50S	176.00E	158	5.6W,5.3b		
WEL	I	27 15 02 47.0–.17	38.41S	176.01E	151–1	6.4L,5.3b		
GCMT	I	27 15 02 46.3–.10	38.49S	176.03E	159–0	5.6W,5.3b		
MOS	I	27 15 02 46.7–1.2	38.32S	176.06E	168	5.2b,4.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=9.3km az=27.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.1km az=17.8.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=88.0. Felt [IV] in much of the North Island. Felt from Auckland and East Cape to Wellington. Also felt in the Blenheim-Nelson area of the South Island. Moment Tensor Solution. s25 Moment tensor: Scale 10^{17}Nm; M_{rr}0.49 $M_{\theta\theta}$0.07 $M_{\phi\phi}$-0.56 $M_{r\theta}$2.54 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.92 Best double couple: NP1:ϕ_s179.00000°,δ12.00000°,λ22.00000°. NP2:ϕ_s68.00000°,δ86.00000°,λ101.00000°. Principal axes: T 2.8800,Plg48.0000°,Azm349.0000°; N -0.2000,Plg11.0000°,Azm247.0000° ; P -2.6800,Plg40.0000°,Azm148.0000° M_o2.80000×10^{17}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt between Coromandel, Otago and Gisborne, maximum reported intensity MM 5. Lots of clear 1st motions here.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s101,c179; s126,c262;Duration: 1τ5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.51±.04 $M_{\theta\theta}$0.33±.04; $M_{\phi\phi}$-0.84±.04; $M_{r\theta}$2.79±.03; $M_{\theta\phi}$-0.54±.04; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s74.00000°,δ87.00000°,λ105.00000°. NP2:ϕ_s175.00000°,δ16.00000°,λ12.00000°. Principal axes: T 3.2150,Plg46.0000°,Azm359.0000°; N -0.5220,Plg15.0000°,Azm253.0000° ; P -2.6930,Plg40.0000°,Azm150.0000° M_o2.95400×10^{17}
MOS Error ellipse: s-maj=13.1km s-min=10.0km az=126.2.

(190) New Ireland region

ISC	**I**	**28 16 35 38.3–.50**	**5.28S–.05**	**154.10E–.06**	**136–3**	**4.8b**	**269**	**2-159**
NEIC	I	28 16 35 37.7–.23	5.26S	154.00E	132	5.0b		**¶15978012**
ISCJB	I	28 16 35 37.4–.79	5.26S–.03	154.04E–.04	139–7	4.8b		
GCMT	I	28 16 35 37.7–.30	5.23S	153.87E	155–3	5.0W		
MOS	I	28 16 35 37.1–.91	5.21S	154.00E	137	4.7b		
IDC	I	28 16 35 38.1–.68	5.25S	154.02E	132–5	4.9,4.5		
BJI	I	28 16 35 39.6	4.89S	153.94E	142	5.1b,4.9b		
DJA	I	28 16 35 49.6–.60	5S–3.0	154E–4.0	215–6	5.5b,5.5		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s80,c110;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.26±.14 $M_{\theta\theta}$0.78±.16; $M_{\phi\phi}$-2.04±.17; $M_{r\theta}$1.11±.12; $M_{\theta\phi}$-2.13±.18; $M_{\phi r}$-2.36±.12; Best double couple: NP1:ϕ_s170.00000°,δ76.00000°,λ47.00000°. NP2:ϕ_s66.00000°,δ44.00000°,λ160.00000°. Principal axes: T 3.8630,Plg42.0000°,Azm40.0000°; N -0.1140,Plg41.0000°,Azm182.0000° ; P -3.7540,Plg20.0000°,Azm291.0000° M_o3.80800×10^{16}

(173) Tonga Islands

ISC	**I**	**31 06 03 26.3–.31**	**22.00S–.03**	**175.54W–.04**	**69–2**	**6.0b**	**2116**	**6-179**
MOS	I	31 06 03 21.3–.93	21.89S	175.64W	33	6.2b,5.1s		**¶601990432**
IDC	I	31 06 03 22.3–1.5	21.92S	175.51W	33–10	5.7,5.5		
BJI	I	31 06 03 25.2	21.64S	175.32W	67	5.9b,5.7b		
NEIC	I	31 06 03 26.0–.00	21.94S	175.51W	76	5.9b,5.7b		
NEIC	I	31 06 03 27.3–.09	22.01S	175.62W	76	6.2,6.0W		
GCMT	I	31 06 03 27.3–.10	21.91S	175.13W	90–0	6.0W,6.0W		
ISCJB	I	31 06 03 28.7–.07	22.06S–.02	175.66W–.02	100	5.8b,6.0W		
NEIC	I	31 06 03 45.5–.00	21.88S	175.40W	77	5.8b,6.0W		

ISC Event type fe.
MOS Error ellipse: s-maj=8.0km s-min=5.9km az=69.7.
IDC Error ellipse: s-maj=11.8km s-min=9.7km az=147.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ88.00000°,λ-46.00000°. NP2:ϕ_s64.00000°,δ43.00000°,λ-177.00000°. Principal axes: T 1.2800,Plg30.0000°,Azm29.0000°; N -0.2400,Plg44.0000°,Azm151.0000° ; P -1.0400,Plg32.0000°,Azm278.0000°
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=138.0. Felt [IV] at Nuku'alofa. Also felt at Havelu, 'Ohonua and Vaini. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o2.00000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ90.00000°,λ64.00000°. NP2:ϕ_s54.00000°,δ26.00000°,λ179.00000°. Principal axes: T 1.2200,Plg40.0000°,Azm31.0000°; N -0.1500,Plg26.0000°,Azm145.0000° ; P -1.0700,Plg39.0000°,Azm258.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c297; s141,c450;Duration: 2τ4 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.15±.01 $M_{\theta\theta}$0.82±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.51±.01; $M_{\theta\phi}$-0.61±.01; $M_{\phi r}$-0.65±.01; Best double couple: NP1:ϕ_s331.00000°,δ88.00000°,λ-41.00000°. NP2:ϕ_s63.00000°,δ49.00000°,λ-177.00000°. Principal axes: T 1.3770,Plg26.0000°,Azm25.0000° ; N -0.2330,Plg49.0000°,Azm149.0000°; P -1.1430,Plg29.0000°,Azm279.0000° M_o1.26000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=144.7.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ87.00000°,λ41.00000°. NP2:ϕ_s66.00000°,δ49.00000°,λ176.00000°. Principal axes: T 1.4500,Plg30.0000°,Azm31.0000°; N -0.2300,Plg49.0000°,Azm162.0000° ; P -1.2100,Plg26.0000°,Azm285.0000°

(221) Kuril Islands

ISC	**II**	**01 20 38 30.3–.90**	**44.22N–.06**	**147.90E–.07**	**101–6**	**3.9b**	**59**	**1-79**
ISCJB	II	01 20 38 29.6–.72	44.26N–.06	147.91E–.09	106–4	3.9b		**¶17191513**
MOS	II	01 20 38 30.0–1.3	44.39N	147.93E	109	4.1b		
JMA	II	01 20 38 32.3–.30	44.02N	147.85E	94	3.6		
IDC	II	01 20 38 32.8–3.4	44.62N	147.85E	103–29	4.0,3.8		
SKHL	II	01 20 38 32.0–.60	44.42N	147.56E	108–5	5.8s,5.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=6.3km az=42.5.
MOS Error ellipse: s-maj=16.0km s-min=12.3km az=95.3.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=51.6km s-min=17.1km az=168.0.

(280) Banda Sea

ISC	**II**	**03 21 37 53.0–.34**	**6.72S–.03**	**130.54E–.04**	**100–2**	**5.1b**	**383**	**1-158**
BJI	II	03 21 37 47.8	6.92S	130.76E	92	5.3b,4.9b		**¶16002872**
MOS	II	03 21 37 50.9–.99	6.62S	130.57E	94	5.2b,4.9b		
ISCJB	II	03 21 37 52.4–.29	6.74S–.02	130.57E–.02	112–2	5.1b,4.9b		
NEIC	II	03 21 37 52.7–.41	6.69S	130.51E	96–4	5.4b,4.9b		
GCMT	II	03 21 37 52.7–.20	6.73S	130.57E	99–3	5.2W,4.9b		
IDC	II	03 21 37 53.2–1.5	6.60S	130.55E	97–12	5.0,4.6		
DJA	II	03 21 37 53.9–.20	7S–1.0	131E–1.0	99–3	5.8,5.7b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c35; s84,c123;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.38±.29 $M_{\theta\theta}$-5.39±.27; $M_{\phi\phi}$4.01±.30; $M_{r\theta}$1.93±.17; $M_{\theta\phi}$-2.02±.26; $M_{\phi r}$4.56±.17; Best double couple: NP1:ϕ_s37.00000°,δ81.00000°,λ44.00000°. NP2:ϕ_s298.00000°,δ47.00000°,λ168.00000°. Principal axes: T 7.4580,Plg36.0000°,Azm267.0000°; N -0.5040,Plg46.0000°,Azm46.0000° ; P -6.9540,Plg22.0000°,Azm160.0000° M_o7.20600×10^{16}

(317) Northeastern India

ISC	**II**	**04 13 53 46.3–.20**	**24.61N–.02**	**94.74E–.02**	**86–1**	**6.4b**	**2964**	**3-166**
BKK	II	04 13 53 31.3–1.3	25N–14	94E–8.0	12–19	7.3,6.4b		**¶602064405**
GCMT	II	04 13 53 44.2–.10	24.46N	94.68E	104–0	6.3W,6.4b		
MOS	II	04 13 53 44.4–1.0	24.59N	94.83E	86	6.5b,5.9s		
ISCJB	II	04 13 53 44.4–.28	24.63N–.01	94.69E–.01	79–2	6.3b,5.9s		
BJI	II	04 13 53 44.5	24.60N	94.70E	89	6.1b,6.1s		
NEIC	II	04 13 53 46.3–.09	24.62N	94.68E	85	6.4b,6.2W		
NEIC	II	04 13 53 47.0–.00	24.62N	94.74E	89	6.4b,6.2W		
IDC	II	04 13 53 47.0–.82	24.62N	94.85E	87–6	6.3,6.1		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c327; s138,c470;Duration: 3τ3 Moment tensor: Scale 10^{18} Nm; M_{rr}1.81±.02 $M_{\theta\theta}$-2.68±.02; $M_{\phi\phi}$0.86±.02; $M_{r\theta}$0.05±.02; $M_{\theta\phi}$1.47±.02; $M_{\phi r}$-1.37±.01; Best double couple: NP1:ϕ_s142.00000°,δ62.00000°,λ136.00000°. NP2:ϕ_s256.00000°,δ52.00000°,λ36.00000°. Principal axes: T 2.9190,Plg50.0000°,Azm104.0000° ; N 0.3450,Plg39.0000°,Azm297.0000°; P -3.2640,Plg6.0000°,Azm201.0000° M_o3.09200×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.0km az=126.9.
ISCJB Event type de. Error ellipse: s-maj=2.4km s-min=1.5km az=32.7.
NEIC Event type de. Error ellipse: s-maj=3.4km s-min=2.4km az=218.0. One person killed and several buildings and bridges damaged in the Monywa area, Myanmar. Felt strongly in the Maungdaw area. Also felt at Mandalay and Taunggyi. Slight damage occurred in Assam, Manipur and Nagaland, India. Felt [V] at Manipur and Shillong; [IV] at Agartala, Guwahati and Tezpur; [III] at Aizawl and Shiliguri; [II] at Calcutta. Felt throughout northeastern India. Felt [V] at Sylhet and [IV] at Chittagong and Dhaka, Bangladesh. Felt in much of Bangladesh. Also felt in Bhutan. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s77 Moment tensor: Scale 10^{18} Nm; M_{rr}1.69 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$-0.02 $M_{r\theta}$0.14 $M_{\theta\phi}$0.56 $M_{\phi r}$-1.26 Best double couple: NP1: ϕ_s134.00000°,δ60.00000°,λ121.00000°. NP2:ϕ_s264.00000°,δ42.00000°,λ49.00000°. Principal axes: T 2.3600,Plg62.0000°,Azm94.0000°; N -0.4300,Plg26.0000°,Azm298.0000° ; P -1.9200,Plg10.0000°,Azm203.0000° M_o2.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s128.00000°,δ61.00000°,λ118.00000°. NP2: ϕ_s260.00000°,δ40.00000°,λ50.00000°. Principal axes: T Plg63.0000°,Azm85.0000° ; N Plg0.0000°,Azm0.0000°; P Plg11.0000°,Azm198.0000°
NEIC Event type se. Moment Tensor Solution. s51 Moment tensor: Scale 10^{18}Nm; M_{rr}1.88 $M_{\theta\theta}$-2.17 $M_{\phi\phi}$0.29 $M_{r\theta}$0.27 $M_{\theta\phi}$0.66 $M_{\phi r}$-0.97 Best double couple: NP1:ϕ_s126.00000°,δ56.00000°,λ119.00000°. NP2:ϕ_s261.00000°,δ43.00000°,λ53.00000°. Principal axes: T 2.3400,Plg65.0000°,Azm91.0000°; N 0.0600,Plg24.0000°,Azm289.0000° ; P -2.4000,Plg7.0000°,Azm196.0000° M_o2.40000×10^{18}
IDC Error ellipse: s-maj=9.0km s-min=7.8km az=47.0.

(706) Northern Sumatera

ISC	**II**	**07 08 08 36.6–.25**	**0.85N–.02**	**98.80E–.03**	**81–1**	**5.2b**	**960**	**1-177**
BJI	II	07 08 08 32.0	0.42N	98.86E	84	5.1b,4.9b		**¶16168814**
KLM	II	07 08 08 33.7	0.61N	98.45E	78	6.3s,5.3b		
GCMT	II	07 08 08 36.4–.20	0.78N	98.65E	96–2	5.1W,5.3b		
ISCJB	II	07 08 08 36.4–.24	0.83N–.02	98.78E–.02	91–2	5.1b,5.3b		
IDC	II	07 08 08 36.2–.40	0.90N	98.88E	77–2	5.0,4.7		
NEIC	II	07 08 08 36.4–.13	0.81N	98.82E	75	5.3b,4.7		
DJA	II	07 08 08 37.8–.20	1N–2.0	99E–2.0	68–2	5.6b,5.6		
MOS	II	07 08 08 37.3–1.1	0.95N	98.81E	95	5.3b,5.6		

ISC Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c86; s83,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.40±.14 $M_{\theta\theta}$-0.25±.13; $M_{\phi\phi}$-2.14±.15; $M_{r\theta}$-0.66±.08; $M_{\theta\phi}$0.23±.14; $M_{\phi r}$-4.59±.09; Best double couple: NP1:ϕ_s186.00000°,δ77.00000°,λ95.00000°. NP2:ϕ_s345.00000°,δ14.00000°,λ69.00000°. Principal axes: T 5.3340,Plg58.0000°,Azm103.0000°; N -0.3310,Plg5.0000°,Azm5.0000° ; P -4.9950,Plg32.0000°,Azm272.0000° M_o5.16500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=140.4.
IDC Error ellipse: s-maj=9.5km s-min=6.0km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=46.0. Felt at Padang, Pariaman and Padangsidempuan, Sumatra.
MOS Error ellipse: s-maj=7.3km s-min=4.0km az=111.7.

(123) Northern Chile

ISC	**II**	**08 13 03 30.5–.24**	**27.63S–.03**	**69.73W–.05**	**99–1**	**5.5b**	**573**	**1-177**
MOS	II	08 13 03 27.3–.99	27.60S	69.60W	76	5.8b		**¶16328776**
SJA	II	08 13 03 28.2–.57	27.55S	69.97W	131–13	5.3L		
GUC	II	08 13 03 29.6–.87	27.56S	69.87W	105–4	5.7L		
NEIC	II	08 13 03 30.6–.14	27.62S	69.52W	95	5.5b,5.4W		
IDC	II	08 13 03 30.7–.36	27.55S	69.52W	99–2	4.7,4.5		
GCMT	II	08 13 03 30.6–.20	27.82S	69.96W	109–1	5.4W,4.5		
BJI	II	08 13 03 31.0	27.60S	69.50W	95	5.3b,4.5		
ISCJB	II	08 13 03 47.4–.29	28.35S–.06	68.5W–.10	101	5.5b,4.5		

ISC Event type fe.
SJA Moment Tensor Solution. NP1:ϕ_s357.21000°,δ78.00000°,λ-88.98000°.
NEIC Event type fe. Felt [V] at Chanaral, Copiapo and Tierra Amarilla; [IV] at Vallenar; [III] at Caldera, Coquimbo, Diego de Almagro, Freirina, Huasco, La Higuera and La Serena; [II] at Taltal. Also felt at La Ligua. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80 $M_{\theta\theta}$-0.61 $M_{\phi\phi}$1.40 $M_{r\theta}$0.50 $M_{\theta\phi}$-0.48 $M_{\phi r}$0.76 Best double couple: NP1:ϕ_s312.00000°,δ44.00000°,λ-150.00000°. NP2:ϕ_s200.00000°,δ70.00000°,λ-50.00000°. Principal axes: T 1.6800,Plg15.0000°,Azm262.0000°; N -0.2000,Plg37.0000°,Azm4.0000° ; P -1.4900,Plg49.0000°,Azm153.0000° M_o1.60000×10^{17} Moment Tensor Solution. s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.87 $M_{\theta\theta}$-0.35 $M_{\phi\phi}$1.22 $M_{r\theta}$0.68 $M_{\theta\phi}$0.50 $M_{\phi r}$0.69 Best double couple: NP1:ϕ_s347.00000°,δ33.00000°,λ-137.00000°. NP2:ϕ_s219.00000°,δ68.00000°,λ-64.00000°. Principal axes: T 1.6700,Plg19.0000°,Azm291.0000° ; N -0.2900,Plg24.0000°,Azm29.0000°; P -1.3800,Plg59.0000°,Azm165.0000° M_o1.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c146; s106,c180;Duration: 1τ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.31±.02 $M_{\theta\theta}$0.62±.02; $M_{\phi\phi}$0.93±.03; $M_{r\theta}$0.36±.01; $M_{\theta\phi}$-0.72±.02; $M_{\phi r}$0.89±.02; Best double couple: NP1:ϕ_s199.00000°,δ82.00000°,λ-44.00000°. NP2:ϕ_s296.00000°,δ47.00000°,λ-169.00000°. Principal axes: T 1.5060,Plg23.0000°,Azm255.0000° ; N -0.1170,Plg45.0000°,Azm10.0000°; P -1.3890,Plg36.0000°,Azm147.0000° M_o1.44700×10^{17}
ISCJB Event type fe.

(249) Luzon

ISC	**II**	**08 21 01 10.5–.54**	**18.12N–.03**	**120.80E–.04**	**74–5**	**4.5b**	**179**	**0-151**
MOS	II	08 21 01 05.1–1.2	17.83N	121.08E	57	4.8b		**¶16019919**
NEIC	II	08 21 01 07.5–.71	17.83N	121.01E	62–7	4.5b		
IDC	II	08 21 01 09.0–2.2	17.85N	121.02E	75–21	4.3,4.1		
ISCJB	II	08 21 01 09.8–.21	18.12N–.02	120.89E–.03	80–2	4.3b,4.1		
BJI	II	08 21 01 09.4	18.31N	121.02E	50	5.0b,4.7L		
MAN	II	08 21 01 10	18.06N	120.82E	57	5.7b,5.3s		
BKK	II	08 21 01 21.1–2.7	18N–15	121E–14	155–26	4.9b,4.2		

ISC Event type fe.
NEIC Event type fe. Felt [III PIVS] at Cabugao and Sinait; [II PIVS] at Batac, Burgos, Laoag, Pasuquin and Sarrat.
ISCJB Event type fe.
MAN Event type fe. INTENSITY III - SINAIT & CABUGAO ILOCOS SUR; INTENSITY II - BURGOS ILOCOS SUR; PASUQUIN ILOCOS NORTE; LAOAG CITY; BATAC AND SARRAT ILOCOS NORTE.

(221) Kuril Islands

ISC	**II**	**09 23 21 35.0–.56**	**46.64N–.05**	**151.24E–.06**	**166**	**3.7b**	**73**	**3-82**
ISCJB	II	09 23 21 34.7–.41	46.69N–.04	151.30E–.06	166	3.7b		**¶16168829**
MOS	II	09 23 21 36.9–1.3	46.84N	151.06E	194	4.0b		
SKHL	II	09 23 21 36.4–.20	46.69N	151.16E	175–5	5.8s,4.8b		
IDC	II	09 23 21 37.5–1.7	46.94N	150.89E	177–15	4.0,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.9km az=137.8.
MOS Error ellipse: s-maj=11.5km s-min=8.3km az=75.6.
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=140.0.

(122) Near coast of northern Chile

ISC	**II**	**10 02 12 25.8–.27**	**27.58S–.03**	**70.24W–.06**	**70–2**	**5.0b**	**544**	**0-177**
MOS	II	10 02 12 20.4–.98	27.66S	70.31W	33	5.4b		**¶16020158**
ISCJB	II	10 02 12 23.3–.35	27.56S–.02	70.13W–.04	60–3	4.9b,4.2s		
IDC	II	10 02 12 25.9–.34	27.59S	70.27W	71–2	4.7,4.4		
NEIC	II	10 02 12 25.0	27.62S	70.32W	62	5.1b,4.4		
GUC	II	10 02 12 25.5–.73	27.62S	70.32W	62–5	5.5L,4.4		
GCMT	II	10 02 12 25.0–.20	27.56S	70.62W	93–2	5.2W,4.4		
BJI	II	10 02 12 27.8	27.60S	70.30W	62	5.5s,5.2		

ISC Event type fe.
MOS Error ellipse: s-maj=15.1km s-min=8.1km az=104.8.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.4km az=174.1.
IDC Error ellipse: s-maj=12.5km s-min=11.0km az=65.0.
NEIC Event type fe. Felt [V] at Caldera, Copiapo and Tierra Amarilla; [IV] at Alto del Carmen, Freirina, Huasco and Vallenar; [III] at Chanaral, Diego de Almagro and La Higuera; [II] at Coquimbo and La Serena. Also felt at Vicuna. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=7.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c63; s98,c160; Duration: 1τ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.02 $M_{\theta\theta}$0.42±.02; $M_{\phi\phi}$-0.69±.02; $M_{r\theta}$-0.28±.01; $M_{\theta\phi}$-0.55±.02; $M_{\phi r}$0.10±.02; Best double couple: NP1:ϕ_s244.00000°,δ71.00000°,λ158.00000°. NP2:ϕ_s341.00000°,δ70.00000°,λ21.00000°. Principal axes: T 0.8160,Plg29.0000°,Azm202.0000°; N 0.1050,Plg61.0000°,Azm24.0000° ; P -0.9200,Plg1.0000°,Azm293.0000° M_o0.86800×10^{17}

(221) Kuril Islands

ISC	**II**	**10 09 14 01.4–.42**	**47.30N–.05**	**153.34E–.04**	**65–3**	**4.6b**	**665**	**4-148**
NIED	II	10 09 13 00	47.20N	153.80E	32	4.4W		**¶16019820**
JMA	II	10 09 13 56.1–.90	47.19N	153.81E	30	4.7		

SKHL II 10 09 13 57.8–.00 47.17N 153.77E 50–5 5.8b,5.3s
BJI II 10 09 13 57.0 47.59N 153.77E 68 4.9b,4.6s
MOS II 10 09 13 59.5–1.1 47.42N 153.15E 58 4.8b,4.6s
ISCJB II 10 09 14 00.0–.47 47.30N–.03 153.24E–.03 65–4 4.5b,4.6s
IDC II 10 09 14 01.5–.63 47.48N 153.06E 61–5 4.3,4.2
NEIC II 10 09 14 05.6–.69 47.50N 153.02E 95–5 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ62.00000°,λ164.00000°. NP2:ϕ_s322.00000°,δ76.00000°,λ29.00000°. $M_0$4.19000×10^{15}
JMA Error ellipse: s-maj=8.9km s-min=9.1km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=5.4km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.0km az=153.6.
IDC Error ellipse: s-maj=15.2km s-min=9.7km az=158.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=3.6km az=159.0.

(221) Kuril Islands

ISC	**II**	**10 09 27 46.2–.57**	**45.82N–.05**	**151.52E–.05**	**67–4**	**4.5b**	**338**	**3-150**
NIED	II	10 09 27 00	45.70N	151.90E	29	4.5W		¶16019821
JMA	II	10 09 27 39.9–.90	45.71N	151.95E	30	4.8		
SKHL	II	10 09 27 42.6–.80	45.70N	151.82E	65–5	6.2b,5.5s		
MOS	II	10 09 27 42.6–.99	45.88N	151.53E	47	4.8b,5.5s		
BJI	II	10 09 27 42.6	46.01N	151.90E	72	5.0b,4.7b		
ISCJB	II	10 09 27 42.2–.49	45.80N–.03	151.57E–.04	44–4	4.5b,4.0s		
IDC	II	10 09 27 45.4–2.3	45.91N	151.42E	58–20	4.3,4.2		
NEIC	II	10 09 27 47.1–.66	45.96N	151.44E	70–5	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ48.00000°,λ-179.00000°. NP2:ϕ_s140.00000°,δ89.00000°,λ-42.00000°. $M_0$6.55000×10^{15}
JMA Error ellipse: s-maj=7.8km s-min=8.5km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=5.4km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.4km az=143.4.
IDC Error ellipse: s-maj=14.1km s-min=9.5km az=150.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=3.8km az=149.0.

(280) Banda Sea

ISC	**II**	**11 03 54 48.1–.24**	**6.44S–.03**	**130.42E–.04**	**150**	**4.7b**	**340**	**2-159**
MOS	II	11 03 54 43.8–1.0	6.38S	130.32E	120	4.7b		¶16020434
GCMT	II	11 03 54 46.4–.30	6.52S	130.45E	152–3	5.0W		
NEIC	II	11 03 54 46.4–.36	6.40S	130.45E	132–3	4.9b		
ISCJB	II	11 03 54 46.2–.15	6.46S–.02	130.52E–.02	150	4.7b		
BJI	II	11 03 54 46.4	6.40S	130.40E	138	5.1b,4.6b		
IDC	II	11 03 54 46.7–2.2	6.36S	130.48E	132–20	4.8,4.4		
DJA	II	11 03 54 47.7–.20	6S–2.0	130E–2.0	122–3	5.6,5.5b		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s34,c37; s80,c103;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.14 $M_{\theta\theta}$-0.69±.15; $M_{\phi\phi}$1.85±.17; $M_{r\theta}$-0.90±.09; $M_{\theta\phi}$0.30±.17; $M_{\phi r}$3.41±.11; Best double couple: NP1:ϕ_s166.00000°,δ80.00000°,λ-103.00000°. NP2:ϕ_s37.00000°,δ17.00000°,λ-39.00000°. Principal axes: T 4.0810,Plg33.0000°,Azm267.0000°; N -0.4140,Plg13.0000°,Azm168.0000° ; P -3.6730,Plg54.0000°,Azm60.0000° $M_0$3.87700×10^{16}
NEIC Event type se.
ISCJB Event type se.

(173) Tonga Islands

ISC	**II**	**12 17 57 56.2–.28**	**20.85S–.03**	**175.59W–.04**	**86–2**	**6.0b**	**1976**	**7-178**
MOS	II	12 17 57 51.5–.95	20.71S	175.67W	50	6.3b,5.4s		¶16022200
ISCJB	II	12 17 57 54.9–.06	20.97S–.02	175.65W–.02	87	5.9b,5.4s		
BJI	II	12 17 57 54.5	20.90S	175.70W	80	6.2b,6.0b		
NEIC	II	12 17 57 56.1–.08	20.88S	175.67W	85	6.1W,6.1W		
GCMT	II	12 17 57 56.6–.10	20.93S	175.19W	112–0	6.1W,6.1W		
IDC	II	12 17 57 56.6–1.2	20.84S	175.61W	87–9	5.8,5.5		
NEIC	II	12 17 57 57.0–.00	21.07S	175.28W	89	5.8,5.5		

ISC Event type fe.
MOS Error ellipse: s-maj=7.6km s-min=5.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.7km az=42.9.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=137.0. Felt [III] at Nuku'alofa. Also felt at Pangai and Vaini. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. $M_0$2.00000×10^{18} Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.36 $M_{\theta\theta}$1.44 $M_{\phi\phi}$-0.08 $M_{r\theta}$0.56 $M_{\theta\phi}$0.85 $M_{\phi r}$-0.72 Best double couple: NP1:ϕ_s274.00000°,δ57.00000°,λ-52.00000°. NP2:ϕ_s38.00000°,δ49.00000°,λ-133.00000°. Principal axes: T 1.8400,Plg4.0000°,Azm338.0000°; N 0.0700,Plg31.0000°,Azm70.0000° ; P -1.9100,Plg58.0000°,Azm240.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tension Solution. s138,c313; s141,c480;Duration: 2ŝ8 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.95±.01 $M_{\theta\theta}$1.05±.01; $M_{\phi\phi}$-0.09±.01; $M_{r\theta}$0.43±.01; $M_{\theta\phi}$1.18±.01; $M_{\phi r}$-0.90±.01; Best double couple: NP1:ϕ_s23.00000°,δ61.00000°,λ-141.00000°. NP2:ϕ_s272.00000° ,δ57.00000°,λ-35.00000°. Principal axes: T 1.7940,Plg3.0000°,Azm147.0000° ; N 0.1010,Plg43.0000°,Azm54.0000°; P -1.8930,Plg47.0000°,Azm240.0000° $M_0$1.84400×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=146.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ64.00000° ,λ-43.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ-145.00000°. Principal axes: T 1.2000,Plg7.0000°,Azm331.0000°; N 0.4500,Plg40.0000°,Azm68.0000° ; P -1.6500,Plg48.0000°,Azm233.0000°

(123) Northern Chile

ISC	**II**	**14 21 56 45.0–.25**	**20.00S–.03**	**69.15W–.04**	**105–2**	**5.0b**	**961**	**1-179**
MOS	II	14 21 56 40.2–1.0	19.89S	68.96W	68	5.4b		¶16024887
ISCJB	II	14 21 56 42.7–.30	19.91S–.03	68.97W–.04	96–3	5.0b		
SCB	II	14 21 56 43.4–1.5	19.92S	69.59W	80	4.5L		
BJI	II	14 21 56 44.8	20.00S	69.00W	97	5.5b		
GUC	II	14 21 56 44.9–.53	20.04S	69.30W	105–4	5.6L		
GCMT	II	14 21 56 45.5–.20	20.13S	69.20W	124–1	5.2W		
IDC	II	14 21 56 45.1–.40	19.91S	69.02W	105–2	5.0,4.7		
NEIC	II	14 21 56 45.5–.31	19.97S	68.83W	106–2	5.2W,5.0b		
SJA	II	14 21 57 27.9–.95	23.04S	66.97W	20–68	3.3L,5.0b		

ISC Event type fe.
MOS Error ellipse: s-maj=15.2km s-min=7.1km az=117.8.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=149.6.
SCB Event type ke. Error ellipse: s-maj=110.0km s-min=39.3km az=111.0.
GUC Error ellipse: s-maj=1.3km s-min=4.2km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c82; s93,c156; Duration: 1ŝ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.33±.02 $M_{\theta\theta}$-0.20±.02; $M_{\phi\phi}$0.53±.03; $M_{r\theta}$0.45±.01; $M_{\theta\phi}$0.53±.02; $M_{\phi r}$-0.34±.02; Best double couple: NP1:ϕ_s350.00000°,δ67.00000° ,λ-144.00000°. NP2:ϕ_s244.00000°,δ57.00000°,λ-28.00000°. Principal axes: T 0.8200,Plg6.0000°,Azm115.0000°; N 0.1460,Plg48.0000°,Azm19.0000° ; P -0.9660,Plg41.0000°,Azm210.0000° $M_0$0.89300×10^{17}
IDC Error ellipse: s-maj=13.1km s-min=10.5km az=46.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.8km az=62.0. Felt [V] at Camina, Huara and Pozo Almonte; [IV] at Alto Hospicio, Arica, Cuya and Iquique; [III] at Pisagua and Putre. Moment Tensor Solution. s13 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.22 $M_{\theta\theta}$0.04 $M_{\phi\phi}$4.18 $M_{r\theta}$2.25 $M_{\theta\phi}$5.09 $M_{\phi r}$-5.73 Best double couple: NP1:ϕ_s359.00000°,δ72.00000°,λ-12.00000°. NP2:ϕ_s247.00000°,δ42.00000°,λ-28.00000°. Principal axes: T 10.1000,Plg62.0000° ,Azm97.0000°; N -3.0000,Plg16.0000°,Azm335.0000°; P -7.2000,Plg23.0000° ,Azm238.0000° $M_0$9.00000×10^{16}
SJA Error ellipse: s-maj=31.6km s-min=39.2km az=-1.0.

(263) Talaud Islands

ISC	**II**	**16 08 12 45.2–.45**	**4.41N–.03**	**126.49E–.05**	**87–3**	**4.7b**	**272**	**1-141**
BJI	II	16 08 12 40.6	4.17N	126.58E	85	5.1b,4.7b		¶16026548
MOS	II	16 08 12 40.6–.97	4.45N	126.26E	56	5.0b,4.7b		
ISCJB	II	16 08 12 43.2–.38	4.44N–.02	126.55E–.03	84–3	4.6b,4.7b		
IDC	II	16 08 12 44.6–.67	4.38N	126.19E	79–5	4.6,4.4		
NEIC	II	16 08 12 44.9–.85	4.54N	126.57E	83–8	4.7b,4.4		
KLM	II	16 08 12 45.5	4.61N	126.84E	104	6.1s,4.8b		
DJA	II	16 08 12 45.0–.50	4N–4.0	127E–3.0	75–4	5.3b,5.1		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(266) Northern Molucca Sea

ISC	**II**	**16 23 23 46.3–.64**	**2.48N–.08**	**127.7E–.10**	**64**	**3.9b**	**20**	**2-86**
IDC	II	16 23 23 38.0–.85	2.53N	127.72E	0	3.9,3.9b		¶17192390
ISCJB	II	16 23 23 43.7–.50	2.53N–.05	127.87E–.09	64	3.9b,3.9b		
DJA	II	16 23 24 02.9–.80	1N–8.0	127E–8.0	173–19	6.1b,5.8b		

ISC Event type ke.
ISCJB Event type ke.

(249) Luzon

ISC	**II**	**19 00 09 39.5–.55**	**14.34N–.04**	**120.55E–.05**	**139–5**	**4.5b**	**212**	**0-152**
MOS	II	19 00 09 26.3–1.0	14.27N	120.48E	33	5.0b		¶16032246
ISCJB	II	19 00 09 38.4–.25	14.32N–.03	120.70E–.04	143–2	4.4b		
MAN	II	19 00 09 39	14.31N	120.33E	111	5.1b,4.2s		
BJI	II	19 00 09 39.2	14.47N	120.66E	138	4.9b,4.6b		
IDC	II	19 00 09 40.2–3.0	14.32N	120.65E	146–28	4.5,4.2		
NEIC	II	19 00 09 40.7–.76	14.31N	120.67E	152–7	4.7b,4.2		
DJA	II	19 00 09 47.0–1.7	14N–8.0	121E–11	206–18	5.8b,5.3		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(263) Talaud Islands

ISC	**II**	**19 03 12 49.0–.46**	**3.29N–.03**	**126.59E–.05**	**67–3**	**4.9b**	**457**	**1-167**
IDC	II	19 03 12 42.6–2.6	3.17N	126.40E	15–15	4.7,4.6		¶16032252
BJI	II	19 03 12 43.6	2.64N	126.52E	76	5.1b,4.8b		
ISCJB	II	19 03 12 47.3–.42	3.27N–.02	126.62E–.03	67–3	4.8b,4.8b		
MOS	II	19 03 12 47.6–1.2	3.26N	126.51E	69	5.1b,4.8b		
KLM	II	19 03 12 49.9	3.11N	126.69E	82	5.9s,4.9b		
DJA	II	19 03 12 49.5–1.3	3N–2.0	127E–2.0	32–14	5.2,5.2b		
NEIC	II	19 03 12 49.4–.65	3.24N	126.54E	73–6	4.9b,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=8.2km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.9km az=161.0.
MOS Error ellipse: s-maj=10.0km s-min=4.7km az=119.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.0km az=61.0.

(279) Flores Sea

ISC	**II**	**20 17 52 53.4–.38**	**7.99S–.03**	**122.85E–.03**	**230–3**	**5.0b**	**682**	**1-165**
BJI	II	20 17 52 47.3	8.43S	123.25E	231	4.9b,4.8b		¶16033742
MOS	II	20 17 52 48.7–.96	7.81S	122.81E	194	5.3b,4.8b		
KLM	II	20 17 52 52.9	7.96S	122.87E	223	6.1s,5.6L		
NEIC	II	20 17 52 52.8–.50	7.89S	122.84E	224–5	5.1b,5.6L		
GCMT	II	20 17 52 52.8–.30	7.95S	122.97E	232–2	5.1W,5.6L		
ISCJB	II	20 17 52 53.2–.22	7.94S–.02	122.83E–.02	240–2	4.9b,5.6L		
IDC	II	20 17 52 54.5–.92	7.87S	122.81E	236–8	5.2,4.7		
DJA	II	20 17 52 55.1–.10	8S–2.0	123E–1.0	224–2	5.5,5.3b		

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c47; s87,c123;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.82±.16 $M_{\theta\theta}$-2.74±.16; $M_{\phi\phi}$-0.08±.18; $M_{r\theta}$3.97±.14; $M_{\theta\phi}$-1.49±.16; $M_{\phi r}$0.59±.16; Best double couple: NP1:ϕ_s79.00000°,δ72.00000°,λ100.00000°. NP2:ϕ_s230.00000°,δ21.00000°,λ62.00000°. Principal axes: T 4.8930,Plg62.0000°,Azm4.0000°; N 0.4000,Plg10.0000°,Azm256.0000° ; P -5.2930,Plg26.0000°,Azm161.0000° $M_0$5.09300×10^{16}
ISCJB Event type se.

(249) Luzon

ISC	**II**	**22 02 10 24.5–.29**	**14.12N–.03**	**120.60E–.03**	**140–2**	**5.2b**	**779**	**0-171**
BJI	II	22 02 10 17.6	13.68N	120.99E	132	5.2b,5.2b		¶16057291
ISCJB	II	22 02 10 23.6–.20	14.18N–.01	120.66E–.02	142–2	5.1b,5.2b		
MAN	II	22 02 10 23	14.15N	120.35E	102	5.4b,4.7s		
KLM	II	22 02 10 23.7	14.11N	121.01E	162	6.0s,5.4b		
MOS	II	22 02 10 23.4–.83	14.15N	120.66E	143	5.2b,5.4b		
GCMT	II	22 02 10 24.5–.30	14.16N	120.53E	138–4	5.2W,5.4b		
NEIC	II	22 02 10 24.5–.42	14.13N	120.65E	141–4	5.2b,5.4b		
IDC	II	22 02 10 24.7–.47	14.11N	120.65E	143–4	5.2,4.8		
BKK	II	22 02 10 28.0–.80	14N–4.0	121E–4.0	163–8	5.3b,5.3b		
DJA	II	22 02 10 29.2–1.2	14N–6.0	121E–4.0	189–10	5.5b,5.3b		

ISC Event type fe.
ISCJB Event type fe.
MAN Event type fe. INTENSITY IV - MANILA; DASMARINAS CAVITE; INTENSITY III - QUEZON CITY; PASAY CITY; PASIG CITY; MAKATI CITY; MUNTINLUPA CITY; MALABO CITY.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c14; s86,c115;Duration: 1ŝ0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.86±.37 $M_{\theta\theta}$-2.65±.39; $M_{\phi\phi}$-2.22±.46; $M_{r\theta}$3.29±.26; $M_{\theta\phi}$0.10±.37; $M_{\phi r}$-5.90±.31; Best double couple: NP1:ϕ_s149.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s321.00000° ,δ14.00000°,λ82.00000°. Principal axes: T 8.8990,Plg59.0000°,Azm62.0000° ; N -2.4570,Plg2.0000°,Azm329.0000°; P -6.4520,Plg31.0000°,Azm237.0000° $M_0$7.67600×10^{16}
NEIC Event type fe. Felt [IV PIVS] at Dasmarinas and Manila; [III PIVS] at Makati, Malabon, Malolos, Mariveles, Muntinlupa City, Pasay, Pasig, Quezon City, Subic and Tagaytay. Felt widely in southwestern Luzon. Felt [II PIVS] at Looc, Lubang Island and at Mamburao and San Teodoro, Mindoro.

(272) Seram

ISC	**II**	**22 11 49 29.7–.44**	**3.96S–.04**	**129.44E–.04**	**100**	**4.2b**	**72**	**1-70**
ISCJB	II	22 11 49 28.5–.27	4.01S–.03	129.40E–.03	100	4.4b		¶16136356
NEIC	II	22 11 49 30.7–.77	3.98S	129.38E	113–11	4.6b		
BJI	II	22 11 49 30.0	3.87S	129.38E	105	5.0b,4.5b		
DJA	II	22 11 49 32.4–.30	4S–4.0	129E–2.0	77–6	5.7b,5.3b		
IDC	II	22 11 49 32.5–2.9	3.99S	129.35E	126–27	4.1,3.8		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.4km az=151.2.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.6km az=48.0.
IDC Error ellipse: s-maj=35.2km s-min=13.8km az=61.0.

(213) Volcano Islands region

ISC	**II**	**22 14 09 50.2–.32**	**22.19N–.03**	**143.85E–.03**	**112–2**	**5.5b**	**1308**	**5-167**
NIED	II	22 14 09 00	22.60N	144.20E	89	5.6W		¶16100871
BJI	II	22 14 09 47.2	22.21N	143.92E	95	5.5b,5.3b		
ISCJB	II	22 14 09 48.4–.35	22.21N–.02	143.86E–.01	101–3	5.5b,5.3b		
NEIC	II	22 14 09 50.8–.09	22.11N	143.84E	113	5.6b,5.5W		
GCMT	II	22 14 09 50.8–.10	22.23N	143.98E	106–1	5.5W,5.5W		
MOS	II	22 14 09 50.6–1.0	22.15N	143.72E	124	5.4b,4.5s		
IDC	II	22 14 09 50.9–.42	22.15N	143.82E	115–3	5.4,5.1		
JMA	II	22 14 09 51.9–.20	22.57N	144.24E	120–2	5.8,5.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ49.00000°,λ129.00000°. NP2:ϕ_s325.00000°,δ54.00000°,λ55.00000°. $M_0$2.71000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.2km az=149.7.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.5km az=126.0. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$-0.88 $M_{r\theta}$-2.11 $M_{\theta\phi}$-0.69 $M_{\phi r}$0.65 Best double couple: NP1:ϕ_s23.00000°,δ20.00000°,λ23.00000°. NP2:ϕ_s272.00000° ,δ82.00000°,λ109.00000°. Principal axes: T 2.8500,Plg49.0000°,Azm202.0000° ; N -1.0900,Plg19.0000°,Azm89.0000°; P -1.7600,Plg35.0000°,Azm345.0000° $M_0$2.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c201; s127,c296;Duration: 1ŝ4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.52±.03 $M_{\theta\theta}$0.40±.04; $M_{\phi\phi}$-0.92±.04; $M_{r\theta}$-2.26±.02; $M_{\theta\phi}$-0.52±.03; $M_{\phi r}$0.67±.02; Best double couple: NP1: ϕ_s104.00000°,δ90.00000°,λ-94.00000°. NP2:ϕ_s10.00000°,δ4.00000°,λ-4.00000°. Principal axes: T 2.9110,Plg45.0000°,Azm198.0000°; N -1.1030,Plg4.0000°,Azm104.0000° ; P -1.8090,Plg45.0000°,Azm11.0000° $M_0$2.36000×10^{17}
MOS Error ellipse: s-maj=6.5km s-min=3.8km az=100.9.
IDC Error ellipse: s-maj=9.3km s-min=5.5km az=87.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.

(277) Jawa

ISC	**II**	**22 17 13 35.9–.43**	**6.56S–.06**	**108.09E–.06**	**250**	**4.1b**	**107**	**1-144**
ISCJB	II	22 17 13 35.2–.22	6.51S–.04	108.11E–.03	250	4.0b		¶16398766
DJA	II	22 17 13 36.1–.20	7S–5.0	108E–2.0	253–3	5.2b,4.7		
IDC	II	22 17 13 37.0–.87	6.34S	108.27E	253–7	4.3,3.8		
KLM	II	22 17 13 38.3	6.59S	107.91E	289	5.9s,4.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.3km az=31.8.
IDC Error ellipse: s-maj=17.6km s-min=7.6km az=63.0.

(211) Southeast of Honshu

ISC	**II**	**23 22 14 04.3–.30**	**31.45N–.03**	**140.28E–.03**	**98–2**	**5.3b**	**1434**	**2-164**
BJI	II	23 22 13 56.7	31.31N	140.96E	96	5.2b,4.9b		¶16155409
NIED	II	23 22 14 00	31.50N	140.70E	80	5.4W,4.9b		
JMA	II	23 22 14 02.4–.20	31.46N	140.67E	80–5	5.2,4.9b		
ISCJB	II	23 22 14 03.2–.31	31.42N–.02	140.25E–.02	97–2	5.3b,4.9b		
IDC	II	23 22 14 03.5–.79	31.36N	140.18E	94–6	5.2,5.0		
MOS	II	23 22 14 03.0–.84	31.51N	140.18E	93	5.5b,4.5s		

NEIC II 23 22 14 05.7–.65 31.46N 140.15E 107–5 5.3b,4.5s
GCMT II 23 22 14 05.7–.10 31.46N 140.45E 90–1 5.4W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ43.00000°,λ-52.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ-120.00000°. $M_0$1.41000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.3km az=164.7.
IDC Error ellipse: s-maj=10.5km s-min=6.3km az=70.0.
MOS Error ellipse: s-maj=6.9km s-min=3.8km az=102.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=128.0. Recorded [1 JMA] on Aogo-shima and Hachijo-jima. Also recorded [1 JMA] in Chiba, Honshu.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c202; s115,c234; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.01±.02; $M_{\phi\phi}$-0.98±.02; $M_{r\theta}$0.67±.02; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$1.29±.01; Best double couple: NP1:ϕ_s225.00000°,δ89.00000°,λ-126.00000°. NP2:ϕ_s133.00000°,δ36.00000°,λ-1.00000°. Principal axes: T 1.4100,Plg34.0000°,Azm345.0000°; N 0.5850,Plg36.0000°,Azm225.0000° ; P -1.9990,Plg36.0000°,Azm104.0000° $M_0$1.70500×10^{17}

(173) Tonga Islands

ISC	**II**	**24 03 01 16.6–.28**	**17.82S–.05**	**174.42W–.04**	**123–2**	**5.3b**	**1262**	**4-175**
MOS	II	24 03 01 10.1–1.0	17.58S	174.49W	71	5.6b,4.3s		**¶16168914**
BJI	II	24 03 01 15.6	17.15S	174.18W	113	5.4b,5.3b		
ISCJB	II	24 03 01 15.1–.09	17.80S–.03	174.46W–.02	121	5.3b,5.3b		
NEIC	II	24 03 01 16.5–.08	17.81S	174.43W	122	5.6W,5.3b		
IDC	II	24 03 01 16.9–.47	17.76S	174.42W	124–4	5.2,5.0		
GCMT	II	24 03 01 16.5–.10	17.68S	174.04W	131–0	5.4W,5.0		

ISC Event type fe.
MOS Error ellipse: s-maj=8.4km s-min=6.7km az=55.2.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.3km az=149.8.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.2km az=142.0. Felt at Neiafu. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.91 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$2.16 $M_{r\theta}$-0.72 $M_{\theta\phi}$1.55 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s63.00000°,δ85.00000°,λ-28.00000°. NP2: ϕ_s155.00000°,δ62.00000°,λ-175.00000°. Principal axes: T 3.0700,Plg16.0000° ,Azm112.0000°; N -1.0800,Plg62.0000°,Azm234.0000°; P -1.9900,Plg23.0000° ,Azm16.0000° $M_0$2.70000×10^{17}
IDC Error ellipse: s-maj=13.6km s-min=10.6km az=132.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c192; s128,c253;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.02 $M_{\theta\theta}$0.18±.02; $M_{\phi\phi}$0.14±.02; $M_{r\theta}$-0.57±.02; $M_{\theta\phi}$0.26±.02; $M_{\phi r}$-1.45±.01; Best double couple: NP1:ϕ_s22.00000° ,δ84.00000°,λ-97.00000°. NP2:ϕ_s253.00000°,δ9.00000°,λ-39.00000°. Principal axes: T 1.6090,Plg39.0000°,Azm119.0000°; N -0.0080,Plg7.0000°,Azm23.0000° ; P -1.6010,Plg50.0000°,Azm284.0000° $M_0$1.60500×10^{17}

(265) Minahassa Peninsula, Sulawesi

ISC	**II**	**24 11 13 07.1–.54**	**0.09S–.04**	**123.29E–.03**	**151–4**	**4.5b**	**128**	**1-154**
ISCJB	II	24 11 13 05.9–.26	0.04S–.03	123.27E–.03	149–2	4.4b		**¶16158852**
IDC	II	24 11 13 07.0–1.4	0.00S	123.23E	152–13	4.5,4.2		
DJA	II	24 11 13 07.9–.50	0S–3.0	123E–2.0	121–5	4.8b,4.7		
NEIC	II	24 11 13 07.2–.69	0.01N	123.32E	152–7	4.5b,4.7		
BJI	II	24 11 13 08.1	0.00N	123.40E	168	4.9b,4.5b		
KLM	II	24 11 13 19.1	0.54N	123.05E	198	6.2s,4.6b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.2km az=30.9.
IDC Error ellipse: s-maj=14.6km s-min=7.9km az=74.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=5.9km az=62.0.

(280) Banda Sea

ISC	**II**	**25 08 37 13.4–.47**	**5.38S–.05**	**129.95E–.04**	**150**	**4.2b**	**52**	**1-152**
ISCJB	II	25 08 37 11.4–.30	5.30S–.03	129.84E–.04	150	4.2b		**¶16196348**
IDC	II	25 08 37 14.4–3.9	5.20S	129.83E	164–37	4.4,4.0		
NEIC	II	25 08 37 15.4–.61	5.26S	129.86E	177–6	4.6b,4.0		
DJA	II	25 08 37 18.9–.40	5S–4.0	130E–2.0	175–5	5.6b,5.2		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(60) Oaxaca

ISC	**II**	**25 13 07 27.0–.24**	**17.82N–.03**	**95.17W–.03**	**131–1**	**5.6b**	**1757**	**1-167**
MOS	II	25 13 07 26.2–1.0	18.02N	94.99W	123	5.7b,5.1s		**¶16160043**
ISCJB	II	25 13 07 26.1–.17	17.94N–.01	95.06W–.01	129–1	5.6b,5.1s		
BJI	II	25 13 07 26.8	17.90N	95.00W	127	5.5b,5.2b		
GCMT	II	25 13 07 26.5–.10	17.98N	95.20W	128–0	6.0W,5.2b		
CASC	II	25 13 07 26.0–3.6	17.97N	94.98W	123	5.7b,5.5		
NEIC	II	25 13 07 26.5–.27	17.84N	95.01W	123–2	6.0,5.9W		
IDC	II	25 13 07 27.8–.38	17.90N	95.04W	135–3	5.6,5.3		
NEIC	II	25 13 07 28.0–.00	17.97N	94.98W	132	5.6,5.3		
MEX	II	25 13 07 28.2–3.0	17.69N	95.21W	135–11	6.0,5.3		

ISC Event type fe.
MOS Error ellipse: s-maj=6.4km s-min=3.7km az=99.7.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=135.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s137,c286; s139,c409;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06±.01 $M_{\theta\theta}$0.14±.01; $M_{\phi\phi}$0.91±.01; $M_{r\theta}$0.32±.01; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$-0.05±.01; Best double couple: NP1: ϕ_s318.00000°,δ52.00000°,λ-109.00000°. NP2:ϕ_s167.00000°,δ42.00000°,λ-68.00000°. Principal axes: T 1.2290,Plg5.0000°,Azm61.0000°; N -0.0870,Plg15.0000°,Azm330.0000° ; P -1.1460,Plg74.0000°,Azm169.0000° $M_0$1.18700×10^{18}
CASC Error ellipse: s-maj=128.9km s-min=120.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=219.0. Felt [IV] at Coatzacoalcos and Jalapa; [III] at Hualtulco, Mitla, Oaxaca and Puerto Escondido; [II] at Mexico, Puebla and Villahermosa. Felt widely in Chiapas, Morelos, Oaxaca, Puebla, Tabasco and Veracruz. Also felt in western Guatemala. Moment Tensor Solution. s38 Moment tensor: Scale 10^{17}Nm; M_{rr}-9.49 $M_{\theta\theta}$2.07 $M_{\phi\phi}$7.42 $M_{r\theta}$1.32 $M_{\theta\phi}$-2.71 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s329.00000° ,δ44.00000°,λ-102.00000°. NP2:ϕ_s166.00000°,δ47.00000°,λ-78.00000°. Principal axes: T 8.5600,Plg1.0000°,Azm248.0000°; N 1.1700,Plg8.0000°,Azm338.0000° ; P -9.7300,Plg81.0000°,Azm150.0000° $M_0$9.20000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=6.0km az=52.0.
NEIC Event type se. Moment Tensor Solution. s109 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.00 $M_{\theta\theta}$0.17 $M_{\phi\phi}$0.83 $M_{r\theta}$0.30 $M_{\theta\phi}$-0.36 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s322.00000° ,δ50.00000°,λ-108.00000°. NP2:ϕ_s169.00000°,δ43.00000°,λ-69.00000°. Principal axes: T 1.0000,Plg3.0000°,Azm65.0000°; N 0.0800,Plg13.0000°,Azm334.0000° ; P -1.0700,Plg75.0000°,Azm169.0000° $M_0$1.00000×10^{18}
MEX Error ellipse: s-maj=10.5km s-min=7.0km az=-1.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**II**	**25 21 13 18.4–.46**	**0.23N–.04**	**122.29E–.04**	**191–4**	**4.5b**	**207**	**0-153**
KLM	II	25 21 13 16.9	0.36N	122.20E	186	5.8s,4.8b		**¶16363021**
ISCJB	II	25 21 13 17.3–.24	0.26N–.03	122.32E–.03	192–2	4.4b,4.8b		
BJI	II	25 21 13 17.0	0.40N	122.30E	177	4.8b,4.8b		
IDC	II	25 21 13 18.5–.73	0.26N	122.20E	191–6	4.5,4.1		
NEIC	II	25 21 13 18.9–.52	0.22N	122.21E	197–5	4.6b,4.1		
DJA	II	25 21 13 19.0–.20	0N–3.0	122E–2.0	178–2	5.0b,4.8		
MOS	II	25 21 13 19.4–1.1	0.25N	122.18E	214	4.4b,4.8		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=1.5.
IDC Error ellipse: s-maj=16.4km s-min=7.8km az=71.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.5km az=59.0.
MOS Error ellipse: s-maj=14.3km s-min=7.4km az=109.1.

(263) Talaud Islands

ISC	**II**	**26 14 57 56.9–.47**	**4.49N–.04**	**126.25E–.06**	**85**	**4.0b**	**64**	**1-122**
MAN	II	26 14 57 50	4.17N	126.41E	79	5.2b,4.4s		**¶16398992**
ISCJB	II	26 14 57 55.6–.28	4.54N–.02	126.29E–.05	85	4.0b,4.4s		
NEIC	II	26 14 57 57.0–.86	4.51N	126.17E	89–9	4.0b,4.4s		
IDC	II	26 14 57 57.8–1.7	4.53N	126.13E	94–15	4.1,3.9		
DJA	II	26 14 57 59.6–.90	4N–7.0	126E–4.0	87–10	5.5b,5.0		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(280) Banda Sea

ISC	**III**	**01 11 59 40.3–.44**	**7.43S–.04**	**129.27E–.05**	**150**	**4.5b**	**78**	**2-128**
BJI	III	01 11 59 35.6	7.53S	129.94E	145	4.8b,4.5b		**¶16442165**
ISCJB	III	01 11 59 38.8–.28	7.41S–.03	129.33E–.04	150	4.3b,4.5b		
IDC	III	01 11 59 40.0–4.8	7.34S	129.11E	138–49	4.3,3.9		
NEIC	III	01 11 59 39.7–.80	7.37S	129.33E	145–12	4.6b,3.9		
DJA	III	01 11 59 42.5–.90	7S–3.0	129E–7.0	102–25	5.8b,5.6b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(280) Banda Sea

ISC	**III**	**03 07 27 15.0–.34**	**6.86S–.04**	**130.51E–.04**	**100**	**4.5b**	**152**	**1-151**
BJI	III	03 07 27 08.0	7.58S	131.11E	118	5.2b,4.6b		**¶16301928**
ISCJB	III	03 07 27 12.7–.22	6.91S–.02	130.60E–.03	100	4.6b,4.6b		
IDC	III	03 07 27 16.4–2.2	6.74S	130.49E	112–20	4.3,4.0		
NEIC	III	03 07 27 16.3–.49	6.85S	130.59E	118–5	4.5b,4.0		
DJA	III	03 07 27 17.8–.20	7S–2.0	131E–2.0	101–5	5.6b,5.2		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(280) Banda Sea

ISC	**III**	**03 08 12 11.9–.40**	**6.40S–.03**	**130.22E–.03**	**165–3**	**4.8b**	**345**	**2-156**
BJI	III	03 08 12 06.5	7.16S	129.95E	167	5.0b,4.7b		**¶16176486**
ISCJB	III	03 08 12 11.3–.30	6.41S–.02	130.17E–.02	175–3	4.8b,4.7b		
MOS	III	03 08 12 11.8–.90	6.31S	130.08E	176	4.9b,4.7b		
IDC	III	03 08 12 12.0–.70	6.32S	130.07E	159–6	4.9,4.4		
GCMT	III	03 08 12 12.4–.50	6.32S	130.19E	183–4	5.0W,4.4		
NEIC	III	03 08 12 12.4–.53	6.37S	130.11E	164–5	5.0b,4.4		
DJA	III	03 08 12 12.6–.20	6S–2.0	130E–2.0	167–3	5.5b,5.5		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s64,c82;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.15±.21 $M_{\theta\theta}$-0.18±.23; $M_{\phi\phi}$0.03±.25; $M_{r\theta}$-0.51±.16; $M_{\theta\phi}$2.34±.24; $M_{\phi r}$3.10±.17; Best double couple: NP1:ϕ_s355.00000°,δ89.00000°,λ126.00000°. NP2:ϕ_s87.00000°,δ36.00000°,λ2.00000°. Principal axes: T 3.6890,Plg36.0000°,Azm297.0000°; N 0.4290,Plg36.0000°,Azm174.0000° ; P -4.1180,Plg34.0000°,Azm55.0000° $M_0$3.90300×10^{16}
NEIC Event type fe. Felt at Darwin, Australia.

(221) Kuril Islands

ISC	**III**	**03 11 52 37.5–.38**	**46.96N–.03**	**151.00E–.03**	**179–2**	**5.2b**	**1532**	**3-154**
NIED	III	03 11 52 00	45.90N	151.30E	175	5.6W		**¶16193999**
MOS	III	03 11 52 34.7–1.0	47.06N	150.97E	161	5.3b		
ISCJB	III	03 11 52 35.3–.26	46.92N–.02	151.07E–.02	170–2	5.2b		
SKHL	III	03 11 52 35.8–.20	46.86N	151.22E	157–5	5.7,5.7b		
BJI	III	03 11 52 36.6	47.09N	151.09E	188	5.0b,5.0b		
GCMT	III	03 11 52 37.9–.10	46.86N	151.21E	175–0	5.4W,5.0b		
NEIC	III	03 11 52 37.9–.10	46.97N	150.93E	180	5.3b,5.0b		
IDC	III	03 11 52 37.3–.68	46.96N	151.01E	177–5	5.2,4.8		
JMA	III	03 11 52 39.1–.50	45.88N	151.34E	186	5.2,4.8		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ31.00000°,λ-1.00000°. NP2:ϕ_s74.00000°,δ89.00000°,λ-121.00000°. $M_0$2.74000×10^{17}
MOS Event type fe. Error ellipse: s-maj=7.4km s-min=5.6km az=81.6. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=165.9.
SKHL Event type fe. Felt (II) at Yushno-Kurilsk.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s101,c171; s126,c248; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.95±.02 $M_{\theta\theta}$1.81±.02; $M_{\phi\phi}$-0.85±.02; $M_{r\theta}$0.48±.02; $M_{\theta\phi}$-0.28±.02; $M_{\phi r}$0.68±.02; Best double couple: NP1:ϕ_s242.00000°,δ66.00000° ,λ-137.00000°. NP2:ϕ_s131.00000°,δ51.00000°,λ-32.00000°. Principal axes: T 1.9010,Plg9.0000°,Azm4.0000°; N -0.2280,Plg42.0000°,Azm266.0000° ; P -1.6760,Plg47.0000°,Azm103.0000° $M_0$1.78800×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=1.9km az=157.0. Felt [II] at Yuzhno-Kuril'sk. Recorded [1 JMA] in eastern Hokkaido.
IDC Error ellipse: s-maj=9.0km s-min=7.0km az=117.0.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.

(263) Talaud Islands

ISC	**III**	**03 12 52 09.8–.30**	**4.95N–.02**	**126.66E–.04**	**87–2**	**5.5b**	**700**	**2-172**
BJI	III	03 12 52 05.5	4.61N	126.41E	82	5.4b,5.3b		**¶16194002**
MOS	III	03 12 52 06.0–.94	4.97N	126.50E	65	5.7b,4.2s		
MAN	III	03 12 52 07	4.57N	126.69E	60	6.0b,5.6s		
ISCJB	III	03 12 52 08.9–.29	4.94N–.01	126.61E–.02	93–2	5.4b,5.6s		
IDC	III	03 12 52 08.6–.96	4.95N	126.53E	74–7	5.2,5.0		
NEIC	III	03 12 52 10.3–.55	4.95N	126.57E	90–5	5.4b,5.0		
GCMT	III	03 12 52 10.3–.10	4.88N	126.66E	63–1	5.4W,5.0		
DJA	III	03 12 52 10.5–.30	5N–2.0	127E–2.0	81–3	6.0,5.8b		

ISC Event type fe.
MAN Event type fe. INTENSITY III - COMPOSTELA VALLEY; MALITA DAVAO DEL SUR; INTENSITY II - DAVAO CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [III PIVS] at Compostela and Malita; [II PIVS] at Davao; [I PIVS] at General Santos.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c180; s118,c216;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.64±.03 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$-0.69±.03; $M_{r\theta}$0.24±.02; $M_{\theta\phi}$-0.78±.02; $M_{\phi r}$1.35±.02; Best double couple: NP1:ϕ_s9.00000°,δ76.00000°,λ69.00000°. NP2:ϕ_s246.00000°,δ25.00000° ,λ144.00000°. Principal axes: T 1.5150,Plg55.0000°,Azm254.0000°; N 0.3430,Plg20.0000° ,Azm15.0000°; P -1.8580,Plg28.0000°,Azm116.0000° $M_0$1.68700×10^{17}

(221) Kuril Islands

ISC	**III**	**04 17 23 34.0–.95**	**48.69N–.06**	**154.66E–.05**	**72–8**	**4.5b**	**211**	**2-147**
BJI	III	04 17 23 26.9	48.86N	155.49E	73	5.0b,4.6s		**¶16196737**
KRSC	III	04 17 23 30.7–1.8	48.60N	154.76E	84–35	4.7L,4.6s		
SKHL	III	04 17 23 31.9–.10	48.50N	155.04E	83–1	5.9s,4.9b		
MOS	III	04 17 23 32.3–1.2	48.68N	154.54E	74	4.4b,4.9b		
ISCJB	III	04 17 23 33.6–.56	48.75N–.04	154.56E–.05	81–5	4.3b,4.9b		
NEIC	III	04 17 23 35.8–.82	48.84N	154.47E	83–7	4.4b,4.9b		
IDC	III	04 17 23 35.7–2.3	48.71N	154.54E	84–20	4.1,4.0		

ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=8.3km s-min=4.8km az=71.8.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=3.4km az=144.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=4.7km az=147.0.
IDC Error ellipse: s-maj=17.4km s-min=10.2km az=143.0.

(124) Chile-Bolivia border region

ISC	**III**	**06 12 31 58.5–.23**	**18.21S–.02**	**69.50W–.03**	**114–1**	**6.0b**	**2237**	**0-179**
CASC	III	06 12 31 50.6–4.2	20.41S	68.07W	260–604	6.0b		**¶16196722**
NEIC	III	06 12 31 56.0–.00	18.11S	69.38W	87	6.0b		
BJI	III	06 12 31 56.6	18.00S	69.30W	89	5.9s,5.8		
GUC	III	06 12 31 57.3–.35	18.31S	69.44W	112–2	6.2L,6.1W		
ISCJB	III	06 12 31 58.1–.11	17.95S–.02	69.46W–.02	116	6.0b,6.1W		
SCB	III	06 12 31 59.2–.24	17.92S	69.61W	100	5.2L,6.1W		
NEIC	III	06 12 31 59.8–.10	18.02S	69.36W	118	6.3W,6.3W		
GCMT	III	06 12 31 59.7–.10	18.28S	69.73W	126–0	6.3W,6.3W		
IDC	III	06 12 31 59.5–.27	18.02S	69.44W	116–2	6.0,5.7		
MOS	III	06 12 32 00.5–1.0	18.06S	69.48W	140	5.9b,5.6s		
NEIC	III	06 12 32 10.6–.00	17.72S	69.24W	92	5.9b,5.6s		

ISC Event type fe.
CASC Error ellipse: s-maj=302.3km s-min=124.4km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.20 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$1.70 $M_{r\theta}$1.20 $M_{\theta\phi}$-0.20 $M_{\phi r}$-1.90 Best double couple: NP1:ϕ_s332.00000° ,δ75.00000°,λ-107.00000°. NP2:ϕ_s203.00000°,δ23.00000°,λ-41.00000°. Principal axes: T 2.8000,Plg27.0000°,Azm75.0000°; N -0.1000,Plg16.0000°,Azm336.0000° ; P -2.6000,Plg56.0000°,Azm219.0000° $M_0$3.00000×10^{18}
GUC Error ellipse: s-maj=2.3km s-min=6.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=39.8.
SCB Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=59.0. Felt [VI] at Codpa; [V] at Arica, Camina, Cuya, Huara, Poconchile and Putre; [IV] at Alto Hospicio; [III] at Iquique and Pisagua; [II] at Pica. Felt [IV] at Arequipa, Ilo and Tacna and [II] at Torata and Mollendo, Peru. Also felt at Moquegua and Puno. Felt [II] at La Paz, Bolivia. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$4.00000×10^{18} Moment Tensor Solution. s8 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.22 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$1.76 $M_{r\theta}$0.88 $M_{\theta\phi}$0.42 $M_{\phi r}$-1.32 Best double couple: NP1: ϕ_s220.00000°,δ35.00000°,λ-35.00000°. NP2:ϕ_s340.00000°,δ71.00000°,λ-120.00000°. Principal axes: T 2.2600,Plg20.0000°,Azm92.0000°; N 0.0000,Plg28.0000°,Azm350.0000° ; P -2.2700,Plg54.0000°,Azm213.0000° $M_0$2.30000×10^{18} Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.26 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$0.31 $M_{r\theta}$0.29 $M_{\theta\phi}$0.22 $M_{\phi r}$-2.45

Best double couple: NP1:ϕ_s354.00000°,δ87.00000°,λ-96.00000°. NP2:ϕ_s237.00000° ,δ7.00000°,λ-27.00000°. Principal axes: T 2.4900,Plg42.0000°,Azm89.0000° ; N 0.0100,Plg6.0000°,Azm354.0000°; P -2.5000,Plg48.0000°,Azm257.0000° M_o2.50000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ11.00000°,λ-27.00000°. NP2:ϕ_s355.00000°,δ85.00000°,λ-100.00000°. Principal axes: T Plg39.0000°,Azm94.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm254.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c330; s141,c471;Duration: 3$\frac{1}{2}$3 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.44±.02 $M_{\theta\theta}$-0.58±.02; $M_{\phi\phi}$2.02±.02; $M_{r\theta}$1.30±.01; $M_{\theta\phi}$0.10±.02; $M_{\phi r}$-2.12±.02; Best double couple: NP1: ϕ_s335.00000°,δ75.00000°,λ-111.00000°. NP2:ϕ_s210.00000°,δ26.00000°,λ-37.00000°. Principal axes: T 3.0910,Plg27.0000°,Azm81.0000°; N -0.0370,Plg20.0000°,Azm340.0000° ; P -3.0530,Plg55.0000°,Azm218.0000° M_o3.07200×10^{18}

IDC Error ellipse: s-maj=8.6km s-min=7.1km az=90.0.

MOS Error ellipse: s-maj=11.6km s-min=5.7km az=108.4.

NEIC Event type se. Moment Tensor Solution. s37 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.75 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$2.26 $M_{r\theta}$0.90 $M_{\theta\phi}$0.21 $M_{\phi r}$-1.94 Best double couple: NP1:ϕ_s209.00000° ,δ28.00000°,λ-47.00000°. NP2:ϕ_s342.00000°,δ70.00000°,λ-110.00000°. Principal axes: T 3.0500,Plg22.0000°,Azm88.0000°; N -0.1700,Plg19.0000°,Azm350.0000° ; P -2.8900,Plg60.0000°,Azm224.0000° M_o3.00000×10^{18}

(153) South Sandwich Islands region

ISC	**III**	**06 14 32 36.9–.22**	**56.39S–.03**	**27.03W–.03**	**92–1**	**6.5b**	**1948**	**6-177**
MOS	III	06 14 32 31.4–.96	56.47S	27.14W	52	6.9b,6.1s		¶16196731
BJI	III	06 14 32 33.2	56.30S	27.10W	90	6.3b,6.3s		
ISCJB	III	06 14 32 34.8–.12	56.47S–.02	27.38W–.06	80	6.4b,6.3s		
GCMT	III	06 14 32 36.1–.10	56.41S	26.68W	101–0	6.5W,6.3s		
NEIC	III	06 14 32 36.1–.09	56.42S	27.06W	88	6.6b,6.5W		
NEIC	III	06 14 32 36.0–.00	56.41S	26.63W	86	6.6b,6.5W		
IDC	III	06 14 32 38.3–.35	56.39S	27.37W	101–2	6.1,5.9		
NEIC	III	06 14 32 50.5–.00	56.39S	26.59W	84	6.1,5.9		

ISC Event type se.

MOS Error ellipse: s-maj=18.0km s-min=8.8km az=100.8.

ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=162.1.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s149,c396; s140,c611;Duration: 4$\frac{1}{2}$5 Moment tensor: Scale 10^{18} Nm; M_{rr}2.86±.04 $M_{\theta\theta}$1.57±.04; $M_{\phi\phi}$-4.44±.04; $M_{r\theta}$-4.96±.03; $M_{\theta\phi}$1.31±.04; $M_{\phi r}$4.83±.03; Best double couple: NP1:ϕ_s318.00000°,δ78.00000°,λ69.00000°. NP2:ϕ_s201.00000° ,δ24.00000°,λ150.00000°. Principal axes: T 7.9280,Plg52.0000°,Azm204.0000° ; N 0.2320,Plg21.0000°,Azm322.0000°; P -8.1700,Plg30.0000°,Azm65.0000° M_o8.04900×10^{18}

NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.9km az=49.0. Moment Tensor Solution. M_o1.00000×10^{19} Moment Tensor Solution. s41 Moment tensor: Scale 10^{18}Nm; M_{rr}4.16 $M_{\theta\theta}$-1.85 $M_{\phi\phi}$-2.30 $M_{r\theta}$-3.70 $M_{\theta\phi}$1.92 $M_{\phi r}$3.96 Best double couple: NP1:ϕ_s139.00000° ,δ19.00000°,λ92.00000°. NP2:ϕ_s317.00000°,δ72.00000°,λ89.00000°. Principal axes: T 6.8600,Plg63.0000°,Azm226.0000°; N -0.1400,Plg1.0000°,Azm317.0000° ; P -6.7100,Plg26.0000°,Azm48.0000° M_o6.80000×10^{18}

NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{18}Nm; M_{rr}3.33 $M_{\theta\theta}$1.34 $M_{\phi\phi}$-4.68 $M_{r\theta}$-4.98 $M_{\theta\phi}$1.95 $M_{\phi r}$4.93 Best double couple: NP1:ϕ_s318.00000° ,δ77.00000°,λ70.00000°. NP2:ϕ_s195.00000°,δ24.00000°,λ145.00000°. Principal axes: T 8.0400,Plg54.0000°,Azm203.0000°; N 0.6500,Plg19.0000°,Azm322.0000° ; P -8.6900,Plg28.0000°,Azm63.0000° M_o8.40000×10^{18}

IDC Error ellipse: s-maj=10.5km s-min=8.1km az=45.0.

NEIC Event type se. Moment Tensor Solution. s110 Moment tensor: Scale 10^{18}Nm; M_{rr}2.80 $M_{\theta\theta}$1.42 $M_{\phi\phi}$-4.22 $M_{r\theta}$-5.25 $M_{\theta\phi}$1.48 $M_{\phi r}$4.94 Best double couple: NP1:ϕ_s198.00000° ,δ22.00000°,λ150.00000°. NP2:ϕ_s316.00000°,δ79.00000°,λ70.00000°. Principal axes: T 8.1100,Plg52.0000°,Azm204.0000°; N 0.2700,Plg19.0000°,Azm320.0000° ; P -8.3700,Plg31.0000°,Azm63.0000° M_o8.20000×10^{18}

(221) Kuril Islands

ISC	**III**	**08 15 18 27.6–.47**	**48.02N–.05**	**151.51E–.05**	**200**	**4.1b**	**139**	**4-149**
ISCJB	III	08 15 18 26.4–.33	48.05N–.05	151.49E–.05	200	4.0b		¶16269125
SKHL	III	08 15 18 26.9–.70	47.98N	151.59E	189–1	5.5s,4.9b		
MOS	III	08 15 18 27.5–1.1	48.15N	151.43E	214	4.0b,4.9b		
NEIC	III	08 15 18 29.5–.82	48.36N	151.22E	201–7	4.3b,4.9b		
BJI	III	08 15 18 29.5	48.40N	151.20E	201	4.6b,4.3b		
IDC	III	08 15 18 29.0–.78	48.12N	151.33E	211–7	4.1,3.7		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.2km az=150.5.

MOS Error ellipse: s-maj=8.8km s-min=7.1km az=89.5.

NEIC Event type se. Error ellipse: s-maj=18.4km s-min=6.4km az=155.0.

IDC Error ellipse: s-maj=11.4km s-min=8.7km az=143.0.

(248) Philippine Islands region

ISC	**III**	**09 17 57 28.7–.42**	**18.78N–.03**	**121.41E–.03**	**70–3**	**4.8b**	**394**	**1-172**
MOS	III	09 17 57 23.5–1.1	18.64N	121.48E	46	5.1b		¶16295229
BJI	III	09 17 57 26.3	18.78N	121.39E	60	4.9b,4.9L		
MAN	III	09 17 57 26	19.92N	121.16E	35	5.6b,5.2s		
ISCJB	III	09 17 57 27.4–.30	18.79N–.02	121.38E–.02	71–3	4.7b,5.2s		
IDC	III	09 17 57 27.1–1.4	18.72N	121.47E	62–11	4.7,4.5		
GCMT	III	09 17 57 27.3–.20	18.84N	121.17E	56–2	5.3W,4.5		
NEIC	III	09 17 57 27.3–.56	18.70N	121.45E	61–5	4.9b,4.5		
BKK	III	09 17 57 40.7–2.4	19N–14	121E–13	155–18	4.9b,4.6b		

ISC Event type fe.

MAN Event type fe. INTENSITY II - LAOAG CITY; PASUQUIN ILOCOS NORTE; SARRAT ILOCOS NORTE.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c118; s85,c149;Duration: 1$\frac{1}{2}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.03 $M_{\theta\theta}$0.22±.02; $M_{\phi\phi}$-0.56±.02; $M_{r\theta}$-0.58±.02; $M_{\theta\phi}$0.00±.02; $M_{\phi r}$0.60±.02; Best double couple: NP1:ϕ_s324.00000°,δ79.00000°,λ66.00000°. NP2:ϕ_s210.00000° ,δ26.00000°,λ154.00000°. Principal axes: T 1.0030,Plg50.0000°,Azm208.0000° ; N -0.0660,Plg23.0000°,Azm329.0000°; P -0.9360,Plg30.0000°,Azm73.0000° M_o0.97000×10^{17}

NEIC Event type fe. Felt [II PIVS] at Laoag, Pasuquin and Sarrat.

(250) Mindoro

ISC	**III**	**10 19 06 09.3–.32**	**13.69N–.03**	**120.62E–.04**	**110–2**	**5.0b**	**426**	**0-151**
BJI	III	10 19 06 08.5	13.66N	120.86E	129	5.0b,4.9b		¶16299032
NEIC	III	10 19 06 08.7–.18	13.74N	120.74E	103	5.0b,4.9b		
IDC	III	10 19 06 08.6–.47	13.70N	120.75E	105–4	4.9,4.6		
MAN	III	10 19 06 09	13.65N	120.36E	78	5.5b,5.1s		
MOS	III	10 19 06 09.2–.92	13.76N	120.78E	124	4.9b,5.1s		
ISCJB	III	10 19 06 09.2–.23	13.76N–.02	120.74E–.03	121–2	5.0b,5.1s		
BKK	III	10 19 06 12.2–1.5	14N–10	121E–12	122–16	5.0b,5.0b		
DJA	III	10 19 06 14.9–.60	14N–3.0	121E–3.0	158–6	5.3b,5.1b		

ISC Event type fe.

NEIC Event type fe. Felt at Calapan. Felt [II PIVS] at Batangas, Luzon. Also felt at Cuenca.

MAN Event type fe. INTENSITY II - BATANGAS CITY.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 04 00.1–1.1**	**36.33N–.04**	**141.85E–.07**	**67–9**	**5.7b**	**236**	**1-152**
IDC	III	11 06 03 51.2–.40	36.47N	141.90E	0	5.4,5.3		¶602653769
MOS	III	11 06 03 53.8–1.0	36.38N	141.84E	27	6.0b,5.3		
NEIC	III	11 06 03 55.3–2.0	36.47N	141.84E	23–14	5.9b,5.3		
JMA	III	11 06 03 58.8–.20	36.33N	141.96E	17–5	6.0,5.3		
ISCJB	III	11 06 04 00.5–.51	36.36N–.04	141.75E–.04	82–4	5.7b,5.3		

ISC Event type ke.

NEIC Event type se.

JMA Event type fe.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 09 27 42.0–.35**	**38.28N–.04**	**142.06E–.04**	**65–2**	**5.2b**	**418**	**1-156**
BJI	III	11 09 27 33.2	38.43N	142.47E	25	5.2b		¶16309749
JMA	III	11 09 27 37.8–.20	38.30N	142.19E	36–3	5.4		
MOS	III	11 09 27 37.4–.93	38.46N	142.21E	33	5.5b		
ISCJB	III	11 09 27 38.5–.49	38.30N–.03	142.15E–.03	47–4	6.2s,5.2b		
NEIC	III	11 09 27 42.2–.53	38.30N	142.16E	68–5	5.3b,5.2b		
IDC	III	11 09 27 43.4–1.8	38.28N	142.15E	79–16	6.1s,6.1		

ISC Event type se.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=6.9km s-min=4.3km az=98.7.

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=138.6.

NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=135.0. Recorded [3 JMA] in Iwate and Miyagi.

IDC Error ellipse: s-maj=10.3km s-min=9.2km az=109.0.

(283) Bali region

ISC	**III**	**11 15 33 03.8–.45**	**8.47S–.06**	**115.40E–.05**	**200**	**4.3b**	**67**	**0-145**
ISCJB	III	11 15 33 02.2–.27	8.42S–.05	115.33E–.03	200	4.4b		¶16453103
NEIC	III	11 15 33 03.0–.72	8.26S	115.30E	191–8	4.9b		
DJA	III	11 15 33 03.9–.10	9S–3.0	115E–1.0	176–2	5.9b,5.5		
IDC	III	11 15 33 06.6–1.6	8.12S	115.47E	225–16	4.6,4.1		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.7km az=16.0.

NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.6km az=223.0.

IDC Error ellipse: s-maj=12.8km s-min=9.0km az=46.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 04 02.1–.46**	**37.87N–.04**	**141.63E–.04**	**63–4**	**4.9b**	**750**	**1-156**
BJI	III	12 01 03 53.1	37.68N	141.96E	26	5.5b,4.9b		¶16308501
MOS	III	12 01 03 57.7–.93	37.91N	141.45E	33	5.2b,4.9b		
NEIC	III	12 01 03 58.7–1.3	37.82N	141.39E	30–9	5.0b,4.9b		
NIED	III	12 01 04 00	37.90N	141.50E	56	4.7W,4.9b		
ISCJB	III	12 01 04 02.3–.33	37.91N–.03	141.43E–.03	69–3	4.8b,4.9b		
IDC	III	12 01 04 03.0–.53	37.92N	141.52E	69–4	4.8,4.6		
JMA	III	12 01 04 02.4–.10	37.90N	141.52E	58–2	4.8,4.6		

ISC Event type se.

MOS Error ellipse: s-maj=7.6km s-min=4.7km az=84.4.

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=148.0. Recorded [3 JMA] in Fukushima and Miyagi.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ127.00000°. NP2:ϕ_s183.00000°,δ58.00000°,λ62.00000°. M_o1.32000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=160.6.

IDC Error ellipse: s-maj=10.9km s-min=9.4km az=131.0.

JMA Event type fe.

(280) Banda Sea

ISC	**III**	**12 08 45 27.7–.38**	**7.26S–.05**	**129.11E–.05**	**150**	**4.9b**	**104**	**2-151**
ISCJB	III	12 08 45 26.2–.23	7.27S–.03	129.17E–.03	150	4.9b		¶16308558
BJI	III	12 08 45 26.0	7.20S	129.10E	159	5.0b,4.7b		
NEIC	III	12 08 45 28.5–.55	7.17S	129.15E	162–6	4.9b,4.7b		
KLM	III	12 08 45 29.3	7.36S	129.06E	159	6.1s,5.1b		
IDC	III	12 08 45 29.0–2.1	7.10S	129.17E	170–21	4.9,4.4		
DJA	III	12 08 45 30.4–.20	7S–2.0	129E–2.0	145–4	5.5b,5.1		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

(153) South Sandwich Islands region

ISC	**III**	**12 18 28 40.3–.30**	**56.99S–.07**	**28.25W–.07**	**250**	**4.8b**	**109**	**16-152**
ISCJB	III	12 18 28 38.9–.28	56.97S–.05	28.1W–.10	250	4.8b		¶16310836
BJI	III	12 18 28 39.0	56.90S	28.00W	238	5.6b		
NEIC	III	12 18 28 40.6–.99	56.94S	28.07W	251–9	4.9b		
IDC	III	12 18 28 40.0–1.1	56.94S	28.03W	242–8	5.1,4.6		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.4km az=144.2.

NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.8km az=225.0.

IDC Error ellipse: s-maj=11.8km s-min=10.1km az=34.0.

(173) Tonga Islands

ISC	**III**	**14 03 17 00.2–.45**	**17.57S–.06**	**174.71W–.06**	**210–3**	**5.1b**	**268**	**5-174**
ISCJB	III	14 03 16 54.8–1.0	17.55S–.04	174.77W–.04	171–10	5.1b		¶16461679
BJI	III	14 03 16 55.0	17.69S	174.06W	199	5.6b,5.1b		
IDC	III	14 03 16 59.9–.60	17.52S	174.86W	203–5	5.1,4.7		
GCMT	III	14 03 16 59.5–.20	17.42S	174.56W	206–1	5.3W,4.7		
NEIC	III	14 03 16 59.5–.21	17.58S	174.85W	203	5.2b,4.7		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.0km az=44.1.

IDC Error ellipse: s-maj=14.1km s-min=11.2km az=137.0.

GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c84; s107,c167; Duration: 1$\frac{1}{2}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.76±.02 $M_{\theta\theta}$0.47±.03; $M_{\phi\phi}$0.29±.03; $M_{r\theta}$0.09±.02; $M_{\theta\phi}$-0.52±.02; $M_{\phi r}$-0.72±.02; Best double couple: NP1:ϕ_s335.00000°,δ66.00000° ,λ-66.00000°. NP2:ϕ_s107.00000°,δ33.00000°,λ-133.00000°. Principal axes: T 1.0790,Plg18.0000°,Azm48.0000°; N 0.0640,Plg22.0000°,Azm145.0000° ; P -1.1430,Plg61.0000°,Azm282.0000° M_o1.11100×10^{17}

NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=111.0.

(280) Banda Sea

ISC	**III**	**17 00 12 59.8–.87**	**6.61S–.07**	**130.34E–.10**	**150**		**11**	**2-68**
IDC	III	17 00 12 42.7–1.6	6.22S	130.16E	0	5.8s,5.8		¶17196572
DJA	III	17 00 13 00.4–.40	7S–3.0	130E–5.0	150–8	4.5b,4.3		

ISC Event type ke.

(267) Halmahera

ISC	**III**	**20 09 21 04.9–.63**	**2.26N–.04**	**128.24E–.05**	**150–5**	**4.6b**	**214**	**3-148**
BJI	III	20 09 20 55.1	1.51N	128.96E	144	5.0b,4.6b		¶16339581
KLM	III	20 09 21 00.5	2.00N	128.60E	100	6.0s,4.8b		
ISCJB	III	20 09 21 03.3–.54	2.29N–.03	128.26E–.03	148–5	4.5b,4.8b		
MOS	III	20 09 21 04.1–.90	2.31N	128.16E	158	4.8b,4.8b		
NEIC	III	20 09 21 04.6–.71	2.30N	128.30E	147–7	4.8b,4.8b		
IDC	III	20 09 21 04.0–1.8	2.26N	128.27E	144–15	4.5,4.2		
DJA	III	20 09 21 06.8–.50	2N–4.0	128E–3.0	103–11	5.2b,5.0b		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

(718) Hindu Kush region

ISC	**III**	**21 09 49 01.8–.19**	**36.52N–.02**	**70.96E–.02**	**194–1**	**5.5b**	**1903**	**3-150**
MOS	III	21 09 48 59.4–.91	36.51N	70.96E	178	5.7b		¶16341179
BJI	III	21 09 49 00.6	36.65N	70.99E	186	5.5b,5.2b		
ISCJB	III	21 09 49 00.0–.21	36.52N–.01	70.98E–.01	187–2	5.5b,5.2b		
GCMT	III	21 09 49 01.6–.10	36.47N	70.73E	194–0	5.8W,5.2b		
NEIC	III	21 09 49 01.6–.45	36.49N	70.93E	190–4	5.8W,5.8W		
IDC	III	21 09 49 02.1–.41	36.46N	71.00E	198–3	5.7,5.2		
NEIC	III	21 09 49 02.0–.00	36.52N	70.92E	196	5.7,5.2		
NNC	III	21 09 49 07.7–1.5	37.03N	71.19E	229–13	6.4,5.2b		

ISC Event type fe.

MOS Error ellipse: s-maj=5.1km s-min=3.5km az=111.2.

ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=25.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c218; s141,c396;Duration: 1$\frac{1}{2}$9 Moment tensor: Scale 10^{17}Nm; M_{rr}4.25±.05 $M_{\theta\theta}$-5.00±.06; $M_{\phi\phi}$0.74±.06; $M_{r\theta}$3.15±.05; $M_{\theta\phi}$-0.12±.06; $M_{\phi r}$2.90±.05; Best double couple: NP1:ϕ_s63.00000° ,δ67.00000°,λ67.00000°. NP2:ϕ_s292.00000°,δ32.00000°,λ134.00000°. Principal axes: T 6.5310,Plg61.0000°,Azm298.0000°; N -0.4150,Plg21.0000°,Azm73.0000° ; P -6.1230,Plg19.0000°,Azm171.0000° M_o6.32700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=196.0. Felt [III] at Bagrami, Charikar, Jalalabad and Kabul; [II] at Baghlan and Jabal us Saraj. Felt [III] at Islamabad, Lahore and Peshawar; [II] at Rawalpindi, Pakistan. Felt in much of northeastern Afghanistan and northern Pakistan. Felt [III] at Delhi, Gurgaon, Jaipur and Noida; [II] at Chandigarh, India. Also felt at Ghaziabad. Felt [II] at Dushanbe, Tajikistan. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}5.09 $M_{\theta\theta}$-3.65 $M_{\phi\phi}$-1.44 $M_{r\theta}$2.04 $M_{\theta\phi}$-0.24 $M_{\phi r}$2.74 Best double couple: NP1:ϕ_s268.00000°,δ30.00000°,λ116.00000°. NP2:ϕ_s58.00000° ,δ63.00000°,λ76.00000°. Principal axes: T 6.4200,Plg69.0000°,Azm300.0000° ; N -2.0200,Plg13.0000°,Azm65.0000°; P -4.4100,Plg17.0000°,Azm159.0000° M_o5.70000×10^{17}

IDC Error ellipse: s-maj=6.8km s-min=5.0km az=16.0.

NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}3.96 $M_{\theta\theta}$-4.86 $M_{\phi\phi}$0.89 $M_{r\theta}$3.30 $M_{\theta\phi}$-0.68 $M_{\phi r}$2.77 Best double couple: NP1:ϕ_s60.00000° ,δ68.00000°,λ69.00000°. NP2:ϕ_s287.00000°,δ30.00000°,λ132.00000°. Principal axes: T 6.2000,Plg60.0000°,Azm298.0000°; N 0.1000,Plg19.0000°,Azm68.0000° ; P -6.3000,Plg20.0000°,Azm166.0000° M_o6.20000×10^{17}

NNC Event type se. Error ellipse: s-maj=14.2km s-min=12.8km az=37.0.

(250) Mindoro

ISC	**III**	**21 10 36 49.3–.24**	**13.93N–.02**	**120.54E–.03**	**94–1**	**5.4b**	**960**	**0-157**
MAN	III	21 10 36 47	13.86N	120.23E	75	6.0b,5.7s		¶16341180
BJI	III	21 10 36 47.3	13.90N	120.71E	97	5.6b,5.3b		
IDC	III	21 10 36 48.7–.38	13.90N	120.64E	90–3	5.3,5.0		
ISCJB	III	21 10 36 49.3–.19	13.98N–.01	120.56E–.02	105–2	5.4b,5.0		
MOS	III	21 10 36 49.6–.80	13.93N	120.62E	115	5.6b,5.0		

KLM III 21 10 36 50.2 13.91N 120.51E 88 6.1s,5.4b
GCMT III 21 10 36 50.1–.10 13.98N 120.37E 89–1 5.5W,5.4b
NEIC III 21 10 36 50.1–.37 13.92N 120.57E 102–3 5.5W,5.4b
BKK III 21 10 36 54.1–.70 14N–4.0 120E–4.0 120–6 6.0,5.6b
DJA III 21 10 36 54.4–.30 14N–2.0 120E–2.0 129–4 5.9,5.8b
ISC Event type fe.
MAN Event type fe. INTENSITY V - BATANGAS CITY; INTENSITY IV - MANILA CITY.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s112,c172; s130,c253;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.03 $M_{\theta\theta}$0.33±.03; $M_{\phi\phi}$-1.11±.04; $M_{r\theta}$1.42±.02; $M_{\theta\phi}$1.72±.03; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s107.00000°,δ69.00000°,λ35.00000°. NP2:ϕ_s4.00000°,δ58.00000°,λ155.00000°. Principal axes: T 2.6660,Plg39.0000°,Azm329.0000°; N -0.3720,Plg50.0000°,Azm134.0000°; P -2.2980,Plg7.0000°,Azm233.0000° M_o2.48200×10^{17}
NEIC Event type fe. Felt [V PIVS] at Batangas; [IV PIVS] at Bacoor, Manila, Marikina, Tagaytay and Talisay; [III PIVS] at Alabang, Dasmarinas, Makati, Malabon, Malolos, Mandaluyong City, Muntinlupa City, Obando, Quezon City and Taguig; [III] at Cavite and Olangapo, Luzon. Felt throughout central Luzon and as far as Baguio and Gumaca. Felt [IV PIVS] at Lubang, Puerto Galera and San Teodoro; [III PIVS] at Abra de Ilog, Calapan and San Jose, Mindoro. Also felt on Lubang Island. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$1.01 $M_{\phi\phi}$-1.98 $M_{r\theta}$1.31 $M_{\theta\phi}$0.96 $M_{\phi r}$0.97 Best double couple: NP1:ϕ_s128.00000°,δ52.00000°,λ25.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ139.00000°. Principal axes: T 2.7000,Plg42.0000°,Azm338.0000°; N -0.3200,Plg45.0000°,Azm180.0000°; P -2.3800,Plg12.0000°,Azm78.0000° M_o2.50000×10^{17}

(153) South Sandwich Islands region

ISC	**III**	**22 05 44 29.7–.31**	**57.58S–.06**	**25.85W–.07**	**65**	**4.9b**	**133**	**7-154**
ISCJB	III	22 05 44 28.5–.28	57.46S–.05	25.9W–.10	65	4.8b		**¶16342426**
BJI	III	22 05 44 32.3	57.40S	25.80W	84	5.5s,5.3b		
IDC	III	22 05 44 33.1–3.8	57.46S	26.04W	92–32	4.9,4.7		
NEIC	III	22 05 44 34.1–1.2	57.48S	25.98W	102–10	5.0b,4.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.3km az=143.6.
IDC Error ellipse: s-maj=15.2km s-min=13.4km az=27.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.8km az=214.0.

(280) Banda Sea

ISC	**III**	**22 19 40 43.6–.57**	**7.71S–.04**	**127.64E–.04**	**144–5**	**4.8b**	**392**	**4-162**
BJI	III	22 19 40 36.2	8.19S	128.02E	137	5.1b,5.0b		**¶16342640**
ISCJB	III	22 19 40 43.7–.33	7.75S–.02	127.70E–.02	168–3	4.8b,5.0b		
NEIC	III	22 19 40 44.5–.51	7.61S	127.64E	150–4	5.0b,5.0b		
IDC	III	22 19 40 44.5–1.6	7.52S	127.55E	144–14	4.7,4.4		
GCMT	III	22 19 40 44.5–.40	7.67S	127.26E	133–4	5.0W,4.4		
MOS	III	22 19 40 44.9–.90	7.46S	127.55E	161	4.8b,4.4		
KLM	III	22 19 40 45.2	7.94S	127.63E	155	6.2s,5.2b		
DJA	III	22 19 40 46.1–.20	8S–2.0	128E–2.0	154–3	5.3,5.3b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c20; s67,c85;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.18 $M_{\theta\theta}$-2.99±.21; $M_{\phi\phi}$1.18±.25; $M_{r\theta}$0.93±.13; $M_{\theta\phi}$2.34±.20; $M_{\phi r}$1.77±.15; Best double couple: NP1:ϕ_s78.00000°,δ63.00000°,λ33.00000°. NP2:ϕ_s331.00000°,δ61.00000°,λ148.00000°. Principal axes: T 4.0290,Plg42.0000°,Azm295.0000°; N 0.0140,Plg48.0000°,Azm112.0000°; P -4.0420,Plg1.0000°,Azm204.0000° M_o4.03500×10^{16}

(263) Talaud Islands

ISC	**III**	**25 01 15 05.0–.31**	**4.40N–.03**	**125.23E–.04**	**252–2**	**4.9b**	**605**	**1-170**
MOS	III	25 01 15 04.0–.88	4.42N	125.17E	257	4.9b		**¶16358679**
BJI	III	25 01 15 04.5	4.32N	125.37E	271	4.8b,4.7b		
ISCJB	III	25 01 15 04.8–.24	4.42N–.02	125.32E–.02	263–2	4.8b,4.7b		
NEIC	III	25 01 15 04.4–.14	4.42N	125.21E	242	5.0b,4.7b		
IDC	III	25 01 15 04.8–.42	4.39N	125.15E	246–3	5.0,4.4		
DJA	III	25 01 15 06.6–.30	4N–3.0	125E–2.0	261–3	5.4,5.4b		
KLM	III	25 01 15 06.3	4.36N	125.38E	261	5.9s,5.2b		
MAN	III	25 01 15 07	4.44N	125.33E	225	5.5b,4.9s		

ISC Event type se.
MOS Error ellipse: s-maj=9.6km s-min=4.8km az=119.4.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=173.5.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=78.0.
IDC Error ellipse: s-maj=8.0km s-min=4.5km az=78.0.

(160) Off east coast of North Island

ISC	**III**	**25 08 39 32.2–.55**	**38.14S–.03**	**178.22E–.04**	**62–4**	**5.0b**	**273**	**0-155**
ISCJB	III	25 08 39 30.0–.36	38.23S–.02	178.30E–.05	68–2	4.9b		**¶16359661**
WEL	III	25 08 39 31.4–.20	38.07S	178.26E	64–1	5.3L		
NEIC	III	25 08 39 31.7	38.08S	178.24E	63	5.4L,5.0b		
BJI	III	25 08 39 31.2	39.05S	177.38E	68	5.5b,5.2		
IDC	III	25 08 39 34.1–.92	38.06S	177.94E	70–6	4.8,4.6b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=11.6.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0. Felt from Auckland to Hawke"s Bay, maximum reported intensity MM 5.
NEIC Event type fe. Felt [IV] at Gisborne. Felt throughout the Raukumara area. After WEL.
IDC Error ellipse: s-maj=20.4km s-min=11.4km az=12.0.

(706) Northern Sumatera

ISC	**III**	**25 09 14 29.6–.29**	**1.11N–.03**	**99.05E–.03**	**110–2**	**5.1b**	**859**	**1-177**
BJI	III	25 09 14 24.7	0.56N	99.13E	120	5.1b,5.1b		**¶16359666**
ISCJB	III	25 09 14 29.1–.21	1.15N–.02	99.06E–.02	114–2	5.0b,5.1b		
IDC	III	25 09 14 29.8–.41	1.16N	99.18E	107–3	4.9,4.6		
KLM	III	25 09 14 29.9	1.04N	98.82E	72	5.8s,5.0b		
MOS	III	25 09 14 29.9–1.3	1.25N	99.18E	118	5.1b,5.0b		
NEIC	III	25 09 14 30.5–.47	1.14N	99.08E	110–4	5.2b,5.0b		
GCMT	III	25 09 14 30.5–.20	1.27N	99.00E	111–1	5.2W,5.0b		
DJA	III	25 09 14 30.2–.20	1N–2.0	99E–2.0	103–2	5.7b,5.4		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] on Pulau Nias and at Sibolga.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c96; s87,c151;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.49±.15 $M_{\theta\theta}$-3.81±.17; $M_{\phi\phi}$1.32±.20; $M_{r\theta}$1.77±.11; $M_{\theta\phi}$-5.71±.17; $M_{\phi r}$-3.40±.13; Best double couple: NP1:ϕ_s198.00000°,δ67.00000°,λ29.00000°. NP2:ϕ_s96.00000°,δ64.00000°,λ155.00000°. Principal axes: T 7.7750,Plg36.0000°,Azm58.0000°; N -0.2550,Plg54.0000°,Azm233.0000°; P -7.5190,Plg2.0000°,Azm326.0000° M_o7.64700×10^{16}

(280) Banda Sea

ISC	**III**	**25 14 32 23.1–.46**	**7.47S–.05**	**128.53E–.05**	**151**	**4.2b**	**51**	**3-151**
ISCJB	III	25 14 32 21.6–.32	7.43S–.03	128.53E–.03	151	4.0b		**¶16480844**
NEIC	III	25 14 32 23.2–.86	7.42S	128.55E	148–9	4.5b		
DJA	III	25 14 32 23.8–.30	7S–4.0	128E–2.0	152–7	5.9b,5.6		
IDC	III	25 14 32 24.3–2.9	7.43S	128.40E	155–27	4.4,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.8km az=142.7.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.5km az=89.0.
IDC Error ellipse: s-maj=24.5km s-min=12.0km az=74.0.

(288) Savu Sea

ISC	**III**	**27 04 18 40.3–.65**	**9.18S–.05**	**122.40E–.04**	**85–6**	**4.3b**	**92**	**1-161**
IDC	III	27 04 18 38.6–1.6	9.04S	122.35E	68–14	4.4,4.2		**¶16481134**
NEIC	III	27 04 18 39.9–.45	9.15S	122.29E	83–4	4.4b,4.2		
ISCJB	III	27 04 18 40.6–.34	9.21S–.04	122.40E–.03	111–4	4.3b,4.2		
DJA	III	27 04 18 41.6–.50	9S–2.0	122E–2.0	30–6	5.5b,5.0		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(263) Talaud Islands

ISC	**III**	**28 01 03 12.7–.41**	**4.18N–.03**	**126.10E–.06**	**129–3**	**4.4b**	**112**	**1-146**
MAN	III	28 01 03 09	4.21N	125.93E	42	5.0b,4.0L		**¶16364029**
BJI	III	28 01 03 11.7	4.43N	126.50E	123	5.0b,4.6b		
ISCJB	III	28 01 03 11.7–.33	4.22N–.02	126.22E–.05	133–3	4.2b,4.6b		
IDC	III	28 01 03 12.2–.57	4.11N	125.95E	130–4	4.3,4.1		
NEIC	III	28 01 03 13.4–.74	4.22N	126.15E	138–7	4.6b,4.1		
DJA	III	28 01 03 17.7–.50	4N–5.0	126E–4.0	84–6	5.7b,5.3		

ISC Event type fe.
MAN Event type fe. INTENSITY II - GENERAL SANTOS CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [II PIVS] at General Santos, Philippines.

(370) Crete

ISC	**IV**	**01 13 29 11.5–.23**	**35.73N–.02**	**26.55E–.02**	**76–1**	**6.1b**	**3210**	**1-167**
NSSC	IV	01 13 29 06.7–.60	35.66N	26.65E	33–131	5.6L		**¶600575114**
HLW	IV	01 13 29 08.5	35.74N	26.73E	33–13	5.8L		
NIC	IV	01 13 29 08.2–.20	35.54N	26.63E	60	5.8L		
ISK	IV	01 13 29 08.4	35.50N	26.58E	57	6.2L		
PDG	IV	01 13 29 09.3–.28	34.99N	25.71E	12–5	6.1,6.0L		
NEIC	IV	01 13 29 10.7	35.66N	26.56E	60	6.2,6.2b		
CSEM	IV	01 13 29 10.6–.08	35.57N	26.60E	80	6.1b,6.1W		
ATH	IV	01 13 29 10.6	35.64N	26.56E	63–2	6.2L,6.1W		
BJI	IV	01 13 29 10.2	35.70N	26.50E	80	5.9b,5.8b		
GCMT	IV	01 13 29 10.7–.10	35.49N	26.67E	76–0	6.1W,5.8b		
ISCJB	IV	01 13 29 10.0–.13	35.66N–.01	26.578E–.01	75–1	6.0b,5.8b		
IDC	IV	01 13 29 11.4–.52	35.79N	26.50E	74–4	5.9,5.7		
MOS	IV	01 13 29 11.4–1.0	35.74N	26.51E	89	6.4b,5.3s		
SFS	IV	01 13 29 11.0	35.54N	26.03E	60	6.0L,5.3s		
PDA	IV	01 13 29 12.1	35.72N	26.55E	80	6.1W,5.3s		
THE	IV	01 13 29 12.6	35.65N	26.57E	44–2	6.2L,5.3s		
NEIC	IV	01 13 29 12.0–.00	35.73N	26.65E	77	6.2L,5.3s		
GII	IV	01 13 29 13.6–.00	35.16N	27.27E	5–0	6.1,5.8b		
NEIC	IV	01 13 29 20.3–.00	35.91N	26.46E	54	6.1,5.8b		
DDA	IV	01 13 29 43.8	35.48N	26.40E	9	6.2L,5.8b		

ISC Event type fe.
NSSC Error ellipse: s-maj=7.7km s-min=95.4km az=-1.0.
NIC Event type fe. Felt I=II at Pafos, Lemesos, Lefkosia.
PDG Event type ke. Error ellipse: s-maj=11.2km s-min=8.3km az=90.0.
NEIC Event type fe. Felt [VI] at Karpathos; [V] at Skhisma and Thira; [IV] at Gazion, Ierapetra, Irakleion, Lardos, Neapolis and Siteia; [III] at Ayios Nikolaos, Chania, Kos, Koutouloufarion, Malia, Neon Karlovasion, Paros, Rodos and Trianta. Felt [IV] at Dalaman and Fethiye; [III] at Alanya, Antalya and Marmaris, Turkey. Felt [IV] at Ismailia and [III] at Alexandria, Al Jizeh, Az Zaqaziq, Cairo and Tanta, Egypt. Felt [III] at Ra'anana, Israel and at Sliema, Malta. Felt widely in Cyprus, northern Egypt, southern Greece, Israel, Malta and southwestern Turkey. Also felt in Lebanon. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After ATH. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}0.16 $M_{\theta\theta}$1.29 $M_{\phi\phi}$-1.45 $M_{r\theta}$0.65 $M_{\theta\phi}$-0.31 $M_{\phi r}$0.17 Best double couple: NP1:ϕ_s144.00000°,δ67.00000°,λ11.00000°. NP2:ϕ_s49.00000°,δ80.00000°,λ156.00000°. Principal axes: T 1.6000,Plg24.0000°,Azm4.0000°; N -0.0800,Plg64.0000°,Azm207.0000°; P -1.5200,Plg9.0000°,Azm98.0000° M_o1.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ73.00000°,λ148.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ20.00000°. Principal axes: T Plg34.0000°,Azm6.0000°; N Plg0.0000°,Azm0.0000°; P Plg8.0000°,Azm102.0000°
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=5.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.4km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c285; s137,c437;Duration: 2s9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.17±.01 $M_{\theta\theta}$1.78±.01; $M_{\phi\phi}$-1.94±.01; $M_{r\theta}$0.58±.01; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$0.31±.01; Best double couple: NP1:ϕ_s50.00000°,δ85.00000°,λ161.00000°. NP2:ϕ_s142.00000°,δ71.00000°,λ5.00000°. Principal axes: T 1.9880,Plg17.0000°,Azm5.0000°; N 0.0680,Plg70.0000°,Azm217.0000°; P -2.0490,Plg10.0000°,Azm98.0000° M_o2.01800×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.1km az=4.9.
IDC Error ellipse: s-maj=6.2km s-min=4.8km az=146.0.
MOS Error ellipse: s-maj=4.2km s-min=2.4km az=93.0.
SFS Event type ke.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.5km az=155.0.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{18}Nm; M_{rr}0.02 $M_{\theta\theta}$1.13 $M_{\phi\phi}$-1.15 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.35 $M_{\phi r}$0.55 Best double couple: NP1:ϕ_s234.00000°,δ84.00000°,λ-153.00000°. NP2:ϕ_s141.00000°,δ64.00000°,λ-6.00000°. Principal axes: T 1.2500,Plg14.0000°,Azm4.0000°; N 0.1900,Plg62.0000°,Azm245.0000°; P -1.4500,Plg22.0000°,Azm100.0000° M_o1.40000×10^{18}
GII Event type ke.
NEIC Event type se. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}0.04 $M_{\theta\theta}$1.70 $M_{\phi\phi}$-1.74 $M_{r\theta}$0.54 $M_{\theta\phi}$-0.33 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s141.00000°,δ72.00000°,λ4.00000°. NP2:ϕ_s50.00000°,δ86.00000°,λ162.00000°. Principal axes: T 1.8700,Plg16.0000°,Azm4.0000°; N -0.0600,Plg72.0000°,Azm217.0000°; P -1.8200,Plg10.0000°,Azm97.0000° M_o1.90000×10^{18}

(190) New Ireland region

ISC	**IV**	**02 06 05 01.9–.53**	**5.58S–.04**	**153.93E–.04**	**66–4**	**5.5b**	**582**	**2-159**
MOS	IV	02 06 04 57.2–1.0	5.47S	153.88E	33	5.6b,4.5s		**¶16403574**
ISCJB	IV	02 06 04 58.6–.73	5.57S–.02	153.93E–.02	49–6	5.4b,4.8s		
IDC	IV	02 06 04 60.0–1.5	5.54S	154.04E	48–13	5.1,5.0		
GCMT	IV	02 06 05 00.7–.10	5.82S	153.70E	41–0	5.3W,5.0		
NEIC	IV	02 06 05 00.7–.12	5.57S	153.96E	55	5.5W,5.4b		
BJI	IV	02 06 05 01.8	5.09S	154.24E	70	5.5b,5.4b		
DJA	IV	02 06 05 02.5–.70	6S–3.0	154E–4.0	60–7	5.8b,5.6		

ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s110,c168; s94,c127;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.14±.02 $M_{\theta\theta}$-0.57±.02; $M_{\phi\phi}$-0.57±.02; $M_{r\theta}$0.32±.02; $M_{\theta\phi}$0.64±.01; $M_{\phi r}$-0.14±.02; Best double couple: NP1:ϕ_s129.00000°,δ53.00000°,λ82.00000°. NP2:ϕ_s322.00000°,δ38.00000°,λ100.00000°. Principal axes: T 1.1990,Plg80.0000°,Azm5.0000°; N 0.0570,Plg6.0000°,Azm133.0000°; P -1.2610,Plg8.0000°,Azm224.0000° M_o1.23000×10^{17}
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.03 $M_{\theta\phi}$1.94 $M_{\phi r}$0.09 Best double couple: NP1:ϕ_s120.00000°,δ50.00000°,λ53.00000°. NP2:ϕ_s349.00000°,δ52.00000°,λ126.00000°. Principal axes: T 1.4200,Plg62.0000°,Azm323.0000°; N 1.3500,Plg28.0000°,Azm146.0000°; P -2.7700,Plg1.0000°,Azm55.0000° M_o2.40000×10^{17}

(123) Northern Chile

ISC	**IV**	**02 10 59 39.1–.23**	**19.67S–.03**	**69.22W–.03**	**102–1**	**5.8b**	**1602**	**0-179**
ISCJB	IV	02 10 59 36.4–.29	19.50S–.02	69.13W–.03	89–2	5.8b		**¶602546014**
NEIC	IV	02 10 59 37.0–.00	19.56S	69.07W	83	5.8b		
GCMT	IV	02 10 59 37.4–.10	19.75S	69.51W	118–0	5.9W		
GUC	IV	02 10 59 38.7–.47	19.68S	69.36W	100–3	5.6L		
BJI	IV	02 10 59 39.7	19.60S	69.20W	90	5.8b,5.6s		
MOS	IV	02 10 59 39.5–1.3	19.40S	69.21W	105	6.0b,5.6s		
IDC	IV	02 10 59 40.1–.33	19.58S	69.13W	105–2	5.5,5.3		
NEIC	IV	02 10 59 40.4–.12	19.54S	69.01W	110	5.9W,5.9W		
SCB	IV	02 10 59 42.2–.58	19.41S	68.76W	100	4.8L,5.9W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=144.5.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.85 $M_{\theta\theta}$-0.91 $M_{\phi\phi}$4.76 $M_{r\theta}$1.40 $M_{\theta\phi}$0.39 $M_{\phi r}$-6.33 Best double couple: NP1:ϕ_s350.00000°,δ74.00000°,λ-100.00000°. NP2:ϕ_s202.00000°,δ19.00000°,λ-58.00000°. Principal axes: T 8.1200,Plg28.0000°,Azm87.0000°; N -0.6100,Plg9.0000°,Azm352.0000°; P -7.5100,Plg59.0000°,Azm245.0000° M_o7.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s131,c281; s134,c345;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.32±.06 $M_{\theta\theta}$-0.59±.07; $M_{\phi\phi}$3.91±.08; $M_{r\theta}$1.59±.04; $M_{\theta\phi}$2.04±.07; $M_{\phi r}$-6.27±.06; Best double couple: NP1: ϕ_s352.00000°,δ76.00000°,λ-110.00000°. NP2:ϕ_s230.00000°,δ24.00000°,λ-35.00000°. Principal axes: T 7.6530,Plg29.0000°,Azm98.0000°; N 0.0950,Plg20.0000°,Azm357.0000°; P -7.7520,Plg54.0000°,Azm237.0000° M_o7.70200×10^{17}
GUC Error ellipse: s-maj=1.3km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=10.9km s-min=5.2km az=110.5.
IDC Error ellipse: s-maj=9.4km s-min=7.5km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=58.0. Felt [VI] at Mamina, Pica and Pozo Almonte; [V] at Alto Hospicio, Codpa, Cuya, Huara and Iquique; [IV] at La Tirana, Pisagua and Poconchile; [III] at Arica and Putre. Also felt at Calama. Felt [III] at Moquegua and Tacna and [II] at Arequipa, Peru. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.80 $M_{\theta\theta}$-1.45 $M_{\phi\phi}$4.25 $M_{r\theta}$0.02 $M_{\theta\phi}$2.44 $M_{\phi r}$-8.23 Best double couple: NP1:ϕ_s359.00000°,δ79.00000°,λ-10.00000°. NP2:ϕ_s234.00000°,δ19.00000°,λ-37.00000°. Principal axes: T 10.0000,Plg32.0000°,Azm102.0000°; N -1.5000,Plg15.0000°,Azm2.0000°; P -8.5000,Plg54.0000°,Azm251.0000° M_o9.40000×10^{17} Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.86 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$1.97 $M_{r\theta}$-1.43 $M_{\theta\phi}$1.87 $M_{\phi r}$-7.43 Best double couple: NP1:ϕ_s11.00000°,δ82.00000°,λ-100.00000°. NP2:ϕ_s241.00000°,δ13.00000°,λ-41.00000°. Principal axes: T 8.3800,Plg36.0000°,Azm109.0000°; N -0.7600,Plg10.0000°,Azm12.0000°

; P -7.6200,Plg52.0000°,Azm270.0000° $M_0$8.00000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ10.00000°,λ-90.00000°. NP2: ϕ_s10.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm100.0000° ; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm280.0000°

SCB Event type ke. Error ellipse: s-maj=19.3km s-min=4.6km az=63.0.

(224) Hokkaido region

ISC	**IV**	**03 23 17 27.7–.62**	**43.90N–.06**	**145.74E–.04**	**121–5**	**3.8b**	**73**	**0-83**
ISCJB	IV	03 23 17 26.9–.32	43.87N–.05	145.76E–.05	127–2	3.8b		**¶16455837**
MOS	IV	03 23 17 26.6–1.1	44.03N	145.63E	125	3.9b		
IDC	IV	03 23 17 27.7–2.8	44.05N	145.64E	115–25	3.9,3.7		
SKHL	IV	03 23 17 27.8–.20	43.78N	145.84E	124–4	5.5s,5.0b		
JMA	IV	03 23 17 28.2–.20	43.91N	145.76E	117–2	3.7,5.0b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.9km az=155.5.
MOS Error ellipse: s-maj=17.1km s-min=11.4km az=74.4.
IDC Error ellipse: s-maj=15.9km s-min=12.7km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.

(277) Jawa

ISC	**IV**	**05 04 34 44.1–.56**	**7.13S–.03**	**106.06E–.03**	**64–4**	**5.2b**	**730**	**1-176**
MOS	IV	05 04 34 39.4–1.1	6.81S	106.24E	33	5.4b		**¶16408849**
BJI	IV	05 04 34 41.0	7.00S	106.20E	43	5.0b,4.9b		
IDC	IV	05 04 34 42.0–1.3	6.89S	106.23E	40–10	5.0,4.8		
DJA	IV	05 04 34 43.4–.20	7S–2.0	106E–1.0	50–3	5.6b,5.6		
ISCJB	IV	05 04 34 44.9–.32	7.02S–.03	106.15E–.02	84–2	5.0b,5.6		
GCMT	IV	05 04 34 46.3–.20	7.35S	106.01E	55–1	5.2W,5.6		
KLM	IV	05 04 34 46.6	7.19S	106.00E	101	5.8s,5.3b		
NEIC	IV	05 04 34 46.3–.67	6.93S	106.22E	83–5	5.2b,5.3b		

ISC Event type fe.
MOS Error ellipse: s-maj=10.8km s-min=5.1km az=116.1.
IDC Error ellipse: s-maj=11.4km s-min=8.8km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.6km az=32.9.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c96; s82,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.70±.24 $M_{\theta\theta}$-4.24±.19; $M_{\phi\phi}$-1.46±.23; $M_{r\theta}$2.68±.15; $M_{\theta\phi}$4.56±.14; $M_{\phi r}$-0.75±.17; Best double couple: NP1:ϕ_s115.00000°,δ57.00000° ,λ76.00000°. NP2:ϕ_s320.00000°,δ36.00000°,λ111.00000°. Principal axes: T 6.4010,Plg74.0000°,Azm347.0000°; N 1.7100,Plg12.0000°,Azm123.0000° ; P -8.1110,Plg11.0000°,Azm215.0000° $M_0$7.25600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=3.7km az=223.0. Felt [III] at Banten, Cianjur and Sukabumi; [II] at Bogor and Jakarta. Also felt at Bandung, Cilegon, Curug, Karawang, Palabuhanratu, Serpong and Tangerang.

(61) Chiapas

ISC	**IV**	**07 13 11 23.4–.28**	**17.27N–.03**	**94.14W–.03**	**165–2**	**6.0b**	**2141**	**1-159**
IDC	IV	07 13 11 18.9–2.2	17.41N	93.95W	121–19	5.9,5.8		**¶602546058**
MOS	IV	07 13 11 19.5–1.1	17.38N	93.93W	131	6.1b,6.0s		
GCMT	IV	07 13 11 22.4–.10	17.28N	94.12W	154–0	6.7W,6.0s		
MEX	IV	07 13 11 22.0–2.3	17.22N	94.32W	171–24	6.7,6.0s		
NEIC	IV	07 13 11 22.4	17.21N	94.34W	166	6.7,6.6W		
ISCJB	IV	07 13 11 22.7–.18	17.43N–.01	94.06W–.01	163–1	6.0b,6.6W		
BJI	IV	07 13 11 23.0	17.45N	93.90W	160	6.0b,6.6W		
NEIC	IV	07 13 11 24.0–.00	17.43N	93.78W	167	6.0b,6.6W		
CASC	IV	07 13 11 25.5–3.3	17.05N	93.89W	20–277	6.5b,5.6		

ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=7.0km az=56.0.
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=91.6.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c376; s139,c647;Duration: 5^{s}5 Moment tensor: Scale 10^{19} Nm; M_{rr}-0.56±.01 $M_{\theta\theta}$-0.29±.01; $M_{\phi\phi}$0.85±.01; $M_{r\theta}$0.91±.01; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$-0.62±.01; Best double couple: NP1:ϕ_s307.00000°,δ76.00000°,λ-119.00000°. NP2:ϕ_s194.00000° ,δ32.00000°,λ-27.00000°. Principal axes: T 1.5350,Plg26.0000°,Azm60.0000° ; N -0.1810,Plg28.0000°,Azm315.0000°; P -1.3540,Plg50.0000°,Azm185.0000° $M_0$1.44400×10^{19}
MEX Error ellipse: s-maj=14.7km s-min=13.6km az=-1.0.
NEIC Event type fe. Felt [V] at Cordoba and Tuxtla Gutierrez; [IV] at Coatzacoalcos, Huatulco, Jalapa, Minatitlan and Tehuacan; [III] at Coatepec, Oaxaca, Puebla, Puerto Escondido, San Cristobal de Las Casas and Villahermosa; [II] at Boca del Rio, Cuernavaca and Mexico. Felt [II] at Antigua Guatemala, Guatemala and Quetzaltenango, Guatemala. Felt widely in southern Mexico and in western Guatemala. Depth from broadband displacement seismograms. Energy computed from BB mechanism. After MEX. Moment Tensor Solution. $M_0$1.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000° ,δ77.00000°,λ-110.00000°. NP2:ϕ_s189.00000°,δ24.00000°,λ-35.00000°. Principal axes: T 1.1400,Plg29.0000°,Azm58.0000°; N -0.0400,Plg19.0000°,Azm317.0000° ; P -1.1000,Plg54.0000°,Azm197.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ10.00000°,λ-90.00000°. NP2: ϕ_s310.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm40.0000° ; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm220.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.5km az=139.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ76.00000° ,λ-113.00000°. NP2:ϕ_s183.00000°,δ27.00000°,λ-31.00000°. Principal axes: T 1.1700,Plg27.0000°,Azm50.0000°; N -0.0700,Plg23.0000°,Azm307.0000° ; P -1.1000,Plg52.0000°,Azm182.0000°
CASC Error ellipse: s-maj=27.8km s-min=219.7km az=-1.0.

(280) Banda Sea

ISC	**IV**	**08 00 56 53.5–.51**	**7.84S–.04**	**123.43E–.04**	**252–4**	**4.7b**	**383**	**1-162**
BJI	IV	08 00 56 47.3	8.25S	124.11E	249	4.8b,4.5b		**¶16414240**
MOS	IV	08 00 56 51.8–1.0	7.73S	123.50E	248	4.8b,4.5b		
ISCJB	IV	08 00 56 52.5–.26	7.84S–.02	123.44E–.02	254–3	4.6b,4.5b		
IDC	IV	08 00 56 53.5–1.0	7.81S	123.48E	251–9	4.8,4.3		
NEIC	IV	08 00 56 53.3–.34	7.82S	123.42E	250–3	5.0b,4.3		
DJA	IV	08 00 56 53.8–.10	8S–2.0	123E–1.0	237–3	5.3b,5.0		
KLM	IV	08 00 56 53.9	7.80S	123.55E	240	5.8s,5.0b		

ISC Event type se.
MOS Error ellipse: s-maj=10.1km s-min=6.8km az=119.8.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=140.2.
IDC Error ellipse: s-maj=8.8km s-min=6.4km az=63.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=50.0.

(259) Mindanao

ISC	**IV**	**14 16 11 54.7–.31**	**5.89N–.03**	**126.25E–.04**	**152–2**	**5.0b**	**657**	**1-163**
BJI	IV	14 16 11 51.4	5.70N	126.21E	145	5.3b,5.1b		**¶16427710**
MAN	IV	14 16 11 53	5.81N	126.29E	151	5.7b,5.2s		
MOS	IV	14 16 11 53.6–.99	5.86N	126.11E	155	5.0b,5.2s		
ISCJB	IV	14 16 11 54.8–.23	5.89N–.01	126.25E–.02	167–2	5.0b,5.2s		
KLM	IV	14 16 11 54.3	5.84N	126.48E	154	6.0s,5.9L		
NEIC	IV	14 16 11 55.3–.47	5.89N	126.22E	157–4	5.1b,5.9L		
IDC	IV	14 16 11 55.8–.50	5.82N	126.17E	160–3	5.1,4.8		
GCMT	IV	14 16 11 55.3–.20	5.99N	126.40E	154–1	5.3W,4.8		
DJA	IV	14 16 12 01.7–.90	5N–8.0	126E–3.0	127–9	5.9,5.8b		

ISC Event type fe.
MAN Event type fe. INTENSITY II - GENERAL SANTOS CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [II PIVS] at General Santos. Also felt at Davao and Digos.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c117; s105,c175;Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.02 $M_{\theta\theta}$0.08±.02; $M_{\phi\phi}$-0.35±.03; $M_{r\theta}$-0.65±.01; $M_{\theta\phi}$-0.92±.02; $M_{\phi r}$0.44±.02; Best double couple: NP1:ϕ_s258.00000°,δ68.00000°,λ151.00000°. NP2:ϕ_s360.00000° ,δ63.00000°,λ25.00000°. Principal axes: T 1.3640,Plg36.0000°,Azm217.0000° ; N -0.2840,Plg54.0000°,Azm44.0000°; P -1.0810,Plg3.0000°,Azm310.0000° $M_0$1.22300×10^{17}

(280) Banda Sea

ISC	**IV**	**15 03 10 32.0–.27**	**7.04S–.04**	**130.09E–.04**	**104**	**4.8b**	**264**	**2-151**
BJI	IV	15 03 10 25.1	7.34S	130.43E	92	5.0b,4.9b		**¶16436928**
MOS	IV	15 03 10 26.2–1.2	6.82S	129.74E	54	5.0b,4.9b		
ISCJB	IV	15 03 10 30.9–.19	6.99S–.02	130.08E–.03	104	4.8b,4.9b		
KLM	IV	15 03 10 30.0	7.05S	129.87E	34	6.2s,5.0b		
NEIC	IV	15 03 10 31.8–.67	6.92S	129.95E	95–6	4.8b,5.0b		
IDC	IV	15 03 10 33.9–1.6	6.75S	129.89E	107–14	4.7,4.4		
DJA	IV	15 03 10 35.3–.20	7S–2.0	130E–2.0	94–4	5.5b,5.3		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(173) Tonga Islands

ISC	**IV**	**15 21 46 22.3–.23**	**18.69S–.04**	**175.28W–.03**	**213–1**	**5.7b**	**2110**	**5-176**
MOS	IV	15 21 46 14.1–.83	18.50S	175.39W	142	5.8b		**¶602546136**
ISCJB	IV	15 21 46 21.1–.07	18.70S–.02	175.39W–.02	212	5.7b		
NEIC	IV	15 21 46 22.7–.30	18.69S	175.36W	216–2	5.7W,5.7W		
IDC	IV	15 21 46 22.4–.35	18.75S	175.36W	211–3	5.9,5.4		
GCMT	IV	15 21 46 22.7–.10	18.65S	174.93W	219–0	5.7W,5.4		
BJI	IV	15 21 46 22.0	18.27S	175.02W	215	5.9b,5.7b		
NEIC	IV	15 21 46 23.0–.00	18.60S	175.29W	216	5.9b,5.7b		

ISC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=5.6km az=72.2.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=1.8km az=136.9.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=137.0. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.07 $M_{\theta\theta}$3.10 $M_{\phi\phi}$-0.03 $M_{r\theta}$-1.77 $M_{\theta\phi}$2.34 $M_{\phi r}$-2.71 Best double couple: NP1:ϕ_s40.00000°,δ67.00000°,λ-113.00000°. NP2:ϕ_s268.00000° ,δ32.00000°,λ-47.00000°. Principal axes: T 5.3500,Plg19.0000°,Azm147.0000° ; N -0.6800,Plg21.0000°,Azm50.0000°; P -4.6800,Plg61.0000°,Azm276.0000° $M_0$5.00000×10^{17}
IDC Error ellipse: s-maj=8.9km s-min=6.0km az=142.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c228; s136,c363;Duration: 1^{s}8 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.18±.04 $M_{\theta\theta}$2.61±.04; $M_{\phi\phi}$-0.43±.04; $M_{r\theta}$-1.13±.04; $M_{\theta\phi}$2.10±.04; $M_{\phi r}$-3.22±.03; Best double couple: NP1: ϕ_s31.00000°,δ73.00000°,λ-121.00000°. NP2:ϕ_s276.00000°,δ35.00000°,λ-30.00000°. Principal axes: T 4.7010,Plg22.0000°,Azm144.0000°; N -0.0380,Plg30.0000°,Azm41.0000° ; P -4.6650,Plg51.0000°,Azm265.0000° $M_0$4.68300×10^{17}
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.00 $M_{\theta\theta}$2.60 $M_{\phi\phi}$-0.60 $M_{r\theta}$-1.00 $M_{\theta\phi}$1.70 $M_{\phi r}$-2.80 Best double couple: NP1:ϕ_s34.00000° ,δ72.00000°,λ-122.00000°. NP2:ϕ_s278.00000°,δ36.00000°,λ-31.00000°. Principal axes: T 4.1000,Plg20.0000°,Azm148.0000°; N 0.1000,Plg30.0000°,Azm45.0000° ; P -4.1000,Plg51.0000°,Azm267.0000° $M_0$4.00000×10^{17}

(245) Northeast of Taiwan

ISC	**IV**	**16 01 11 10.9–.23**	**25.36N–.02**	**124.03E–.02**	**140–1**	**5.9b**	**2323**	**1-178**
NIED	IV	16 01 11 00	25.20N	124.00E	130	5.8W		**¶16440095**
MOS	IV	16 01 11 08.4–.94	25.53N	123.99E	124	5.9b,4.7s		
BJI	IV	16 01 11 08.4	25.30N	124.15E	131	6.0b,5.8b		
ISCJB	IV	16 01 11 09.8–.11	25.37N–.01	123.99E–.01	138–1	5.8b,5.8b		
TAP	IV	16 01 11 10.9	25.16N	124.03E	147–0	6.2L,5.8b		
GCMT	IV	16 01 11 10.7–.10	25.30N	123.98E	138–0	5.8W,5.8b		
NEIC	IV	16 01 11 10.4–.09	25.44N	123.90E	131	5.9b,5.8W		
NEIC	IV	16 01 11 10.0–.00	25.39N	124.22E	131	5.9b,5.8W		
IDC	IV	16 01 11 11.9–.37	25.42N	123.99E	144–2	5.8,5.5		
BKK	IV	16 01 11 11.1–.80	25N–5.0	124E–4.0	134–7	6.4,6.2		
JMA	IV	16 01 11 11.3–.10	25.21N	124.02E	137–3	5.8,6.2		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ19.00000°,λ-129.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ-78.00000°. $M_0$5.10000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=112.6.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.4km az=155.6.
TAP C.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c251; s119,c352;Duration: 1^{s}9 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.27±.05 $M_{\theta\theta}$-0.16±.06; $M_{\phi\phi}$2.43±.07; $M_{r\theta}$-3.87±.04; $M_{\theta\phi}$0.44±.06; $M_{\phi r}$-4.10±.04; Best double couple: NP1:ϕ_s40.00000° ,δ80.00000°,λ-78.00000°. NP2:ϕ_s170.00000°,δ15.00000°,λ-139.00000°. Principal axes: T 5.8660,Plg34.0000°,Azm120.0000°; N 0.4920,Plg11.0000°,Azm218.0000° ; P -6.3560,Plg54.0000°,Azm324.0000° $M_0$6.11100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.6km az=140.0. Felt [II] at Chatan, Okinawa. Also felt at Gushikawa and Ishigaki. Felt at Shulin, Taipei and Taoyuan, Taiwan. Recorded [2 JMA] in the Miyako-retto and Yaeyama-retto, Ryukyu Islands. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.19 $M_{\theta\theta}$1.25 $M_{\phi\phi}$1.94 $M_{r\theta}$-4.93 $M_{\theta\phi}$0.55 $M_{\phi r}$-4.59 Best double couple: NP1:ϕ_s46.00000°,δ79.00000°,λ-87.00000°. NP2:ϕ_s210.00000°,δ11.00000°,λ-105.00000°. Principal axes: T 6.7300,Plg34.0000° ,Azm133.0000°; N 1.0600,Plg3.0000°,Azm225.0000°; P -7.7800,Plg56.0000°,Azm319.0000° $M_0$7.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ10.00000°,λ-90.00000°. NP2:ϕ_s55.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm145.0000°; N Plg0.0000°,Azm0.0000°; P Plg55.0000° ,Azm325.0000°
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.00 $M_{\theta\theta}$0.06 $M_{\phi\phi}$1.95 $M_{r\theta}$-3.31 $M_{\theta\phi}$-0.16 $M_{\phi r}$-2.49 Best double couple: NP1:ϕ_s45.00000° ,δ80.00000°,λ-76.00000°. NP2:ϕ_s171.00000°,δ17.00000°,λ-143.00000°. Principal axes: T 3.8300,Plg33.0000°,Azm123.0000°; N 1.2600,Plg13.0000°,Azm222.0000° ; P -5.0900,Plg53.0000°,Azm330.0000° $M_0$4.60000×10^{17}
IDC Error ellipse: s-maj=7.2km s-min=5.9km az=71.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**16 02 19 30.8–.24**	**36.39N–.02**	**139.85E–.02**	**78–1**	**6.0b**	**2519**	**0-166**
NIED	IV	16 02 19 00	36.40N	140.00E	80	5.8W		**¶16440099**
MOS	IV	16 02 19 24.1–.76	36.38N	139.72E	31	6.4b,5.2s		
BJI	IV	16 02 19 26.9	36.30N	139.90E	71	5.7b,5.7b		
NEIC	IV	16 02 19 29.0–.00	36.20N	140.08E	80	5.7b,5.7b		
GCMT	IV	16 02 19 30.8–.10	36.40N	140.00E	81–0	5.8W,5.7b		
NEIC	IV	16 02 19 30.8–.07	36.38N	139.65E	77	5.9b,5.8		
IDC	IV	16 02 19 31.2–.32	36.35N	139.79E	81–2	6.1,5.8		
JMA	IV	16 02 19 31.6	36.34N	139.95E	79–1	5.9,5.8		
ISCJB	IV	16 02 19 31.1–.15	36.35N–.01	139.78E–.01	91–1	5.9b,5.8		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ24.00000°,λ37.00000°. NP2:ϕ_s38.00000°,δ76.00000°,λ110.00000°. $M_0$5.02000×10^{17}
NEIC Event type se. Moment Tensor Solution. s44 Moment tensor: Scale 10^{17}Nm; M_{rr}2.30 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-2.70 $M_{r\theta}$3.30 $M_{\theta\phi}$-1.10 $M_{\phi r}$3.80 Best double couple: NP1:ϕ_s38.00000° ,δ77.00000°,λ102.00000°. NP2:ϕ_s173.00000°,δ18.00000°,λ45.00000°. Principal axes: T 5.6000,Plg56.0000°,Azm325.0000°; N 0.2000,Plg12.0000°,Azm215.0000° ; P -5.8000,Plg30.0000°,Azm118.0000° $M_0$6.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c248; s127,c342;Duration: 1^{s}9 Moment tensor: Scale 10^{17} Nm; M_{rr}3.34±.05 $M_{\theta\theta}$0.44±.05; $M_{\phi\phi}$-3.77±.05; $M_{r\theta}$3.17±.04; $M_{\theta\phi}$-1.13±.05; $M_{\phi r}$2.95±.04; Best double couple: NP1:ϕ_s38.00000°,δ71.00000°,λ109.00000°. NP2:ϕ_s171.00000° ,δ27.00000°,λ46.00000°. Principal axes: T 5.7790,Plg59.0000°,Azm336.0000° ; N -0.0960,Plg18.0000°,Azm212.0000°; P -5.6750,Plg24.0000°,Azm113.0000° $M_0$5.72700×10^{17}
NEIC Event type fe. Felt [IV] at Narita, Tokyo and Zushi and [III] at Atsugi, Yokohama and Yokosuka. Felt in much of Chiba, eastern Saitama, Kanagawa, southern Ibaraki and Tokyo. Recorded [5U JMA] in Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s67 Moment tensor: Scale 10^{17}Nm; M_{rr}4.44 $M_{\theta\theta}$-0.53 $M_{\phi\phi}$-3.91 $M_{r\theta}$3.68 $M_{\theta\phi}$-0.96 $M_{\phi r}$2.91 Best double couple: NP1:ϕ_s181.00000°,δ26.00000°,λ54.00000°. NP2:ϕ_s39.00000° ,δ69.00000°,λ106.00000°. Principal axes: T 6.8400,Plg62.0000°,Azm334.0000° ; N -1.0600,Plg15.0000°,Azm214.0000°; P -5.7700,Plg23.0000°,Azm117.0000° $M_0$6.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s186.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s40.00000°,δ75.00000°,λ100.00000°. Principal axes: T Plg59.0000°,Azm324.0000°; N Plg0.0000°,Azm0.0000°; P Plg29.0000° ,Azm122.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000° ,δ64.00000°,λ100.00000°. NP2:ϕ_s179.00000°,δ27.00000°,λ70.00000°. Principal axes: T Plg69.0000°,Azm312.0000°; N Plg9.0000°,Azm197.0000°; P Plg19.0000°,Azm104.0000°
ISCJB Event type fe.

(179) South of Kermadec Islands

ISC	**IV**	**18 13 03 04.4–.29**	**34.29S–.03**	**179.94E–.03**	**98–2**	**6.2b**	**2501**	**4-179**
MOS	IV	18 13 02 57.6–1.1	34.29S	179.91E	46	6.4b,5.9s		**¶16445598**
ISCJB	IV	18 13 03 00.8–.43	34.30S–.03	179.96E–.02	75–4	6.0b,5.9s		
BJI	IV	18 13 03 01.0	34.30S	180.00E	80	6.2,6.1s		
NEIC	IV	18 13 03 02.7–.10	34.34S	179.87E	86	6.6W,6.6W		
GCMT	IV	18 13 03 02.7–.10	34.40S	179.83W	100–0	6.5W,6.6W		
IDC	IV	18 13 03 03.4–.83	34.28S	179.97E	90–6	6.0,5.7		
NEIC	IV	18 13 03 04.0–.00	34.12S	179.81W	90	6.0,5.7		

ISC Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=6.4km az=79.2.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=169.1.

NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=155.0. Felt [II] at Christchurch, Lower Hutt and Wellington, New Zealand. Felt in many parts of the North Island and in a few places on the South Island. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$9.60000×10^{18} Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.80 $M_{\theta\theta}$2.73 $M_{\phi\phi}$3.06 $M_{r\theta}$2.45 $M_{\theta\phi}$-0.69 $M_{\phi r}$7.65 Best double couple: NP1:ϕ_s353.00000°,δ15.00000°,λ-110.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-85.00000°. Principal axes: T 7.6000,Plg31.0000° ,Azm279.0000°; N 3.1000,Plg5.0000°,Azm12.0000°; P -10.6000,Plg5.0000°,Azm11.0000° $M_0$9.50000×10^{18}

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c368; s139,c568;Duration: 4s5 Moment tensor: Scale 10^{18} Nm; M_{rr}-3.04±.04 $M_{\theta\theta}$-1.31±.04; $M_{\phi\phi}$4.35±.04; $M_{r\theta}$2.05±.03; $M_{\theta\phi}$0.98±.03; $M_{\phi r}$6.56±.03; Best double couple: NP1:ϕ_s197.00000°,δ76.00000°,λ-84.00000°. NP2:ϕ_s355.00000° ,δ15.00000°,λ-111.00000°. Principal axes: T 8.5480,Plg31.0000°,Azm283.0000° ; N -1.3860,Plg6.0000°,Azm16.0000°; P -7.1620,Plg59.0000°,Azm115.0000° $M_0$7.85500×10^{18}

IDC Error ellipse: s-maj=10.7km s-min=9.8km az=16.0.

NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.50 $M_{\theta\theta}$0.88 $M_{\phi\phi}$3.61 $M_{r\theta}$1.99 $M_{\theta\phi}$1.03 $M_{\phi r}$7.57 Best double couple: NP1:ϕ_s195.00000° ,δ76.00000°,λ-91.00000°. NP2:ϕ_s21.00000°,δ14.00000°,λ-84.00000°. Principal axes: T 8.6200,Plg30.0000°,Azm286.0000°; N 0.5500,Plg1.0000°,Azm195.0000° ; P -9.1700,Plg59.0000°,Azm103.0000° $M_0$8.90000×10^{18}

(207) Eastern New Guinea region

ISC	**IV**	**19 02 16 09.9–.53**	**5.95S–.05**	**147.15E–.07**	**78**	**4.5b**	**65**	**3-139**
ISCJB	IV	19 02 16 08.1–.37	5.90S–.04	147.15E–.06	78	4.5b		**¶16449042**
DJA	IV	19 02 16 11.3–1.1	6S–7.0	147E–12	110–7	5.5b,5.4b		
BJI	IV	19 02 16 11.6	6.38S	146.36E	100	4.8b,4.7b		
IDC	IV	19 02 16 11.2–1.8	5.83S	147.04E	94–14	4.3,4.2		
NEIC	IV	19 02 16 12.1–1.0	5.85S	147.02E	103–9	4.6b,4.2		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=174.1.

IDC Error ellipse: s-maj=17.9km s-min=13.9km az=109.0.

NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=94.0.

(216) Mariana Islands

ISC	**IV**	**19 17 46 11.1–.56**	**13.74N–.04**	**145.29E–.06**	**81–4**	**5.1b**	**622**	**0-152**
BJI	IV	19 17 46 04.6	13.28N	145.84E	85	5.0b,4.9b		**¶16447766**
MOS	IV	19 17 46 09.9–1.0	13.82N	145.10E	82	5.1b,4.9b		
IDC	IV	19 17 46 10.3–.68	13.77N	145.27E	72–5	4.8,4.6		
ISCJB	IV	19 17 46 10.1–.52	13.77N–.03	145.16E–.02	82–4	4.9b,4.6		
GCMT	IV	19 17 46 11.2–.40	13.48N	145.29E	102–4	4.9W,4.6		
NEIC	IV	19 17 46 11.2–.58	13.75N	145.20E	81–5	5.2b,4.6		
DJA	IV	19 17 46 23.0–1.1	13N–4.0	146E–8.0	259–17	5.6b,5.2		

ISC Event type fe.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c26; s65,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.29±.13 $M_{\theta\theta}$-1.31±.12; $M_{\phi\phi}$0.02±.15; $M_{r\theta}$0.65±.08; $M_{\theta\phi}$2.23±.12; $M_{\phi r}$1.19±.10; Best double couple: NP1:ϕ_s344.00000°,δ65.00000°,λ147.00000°. NP2:ϕ_s89.00000°,δ60.00000°,λ30.00000°. Principal axes: T 2.8450,Plg41.0000°,Azm305.0000°; N 0.1380,Plg49.0000°,Azm131.0000° ; P -2.9810,Plg3.0000°,Azm37.0000° $M_0$2.91300×10^{16}

NEIC Event type fe. Felt [II] at Andersen AFB and Dededo. Also felt at Apra Harbor, Barrigada, Hagatna, Mangilao, Santa Rita, Tamuning and Yigo.

(193) Bougainville-Solomon Islands region

ISC	**IV**	**23 04 16 55.3–.22**	**10.36S–.03**	**161.25E–.03**	**86–1**	**6.5b**	**2120**	**2-175**
BJI	IV	23 04 16 52.4	10.35S	161.30E	80	6.6s,6.5		**¶602546183**
ISCJB	IV	23 04 16 53.5–.59	10.40S–.02	161.22E–.02	80–5	6.5b,6.5		
GCMT	IV	23 04 16 54.7–.00	10.47S	161.32E	77–0	6.8W,6.5		
NEIC	IV	23 04 16 54.7–.09	10.38S	161.20E	79	6.8W,6.8W		
IDC	IV	23 04 16 54.8–.56	10.38S	161.33E	84–4	6.3,6.0		
MOS	IV	23 04 16 55.9–.94	10.30S	161.19E	102	6.5b,6.4s		
NEIC	IV	23 04 16 55.0–.00	10.35S	161.23E	81	6.5b,6.4s		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.5km az=25.0.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c376; s146,c687;Duration: 6s3 Moment tensor: Scale 10^{19} Nm; M_{rr}0.37±.01 $M_{\theta\theta}$-0.99±.01; $M_{\phi\phi}$0.62±.01; $M_{r\theta}$-1.39±.01; $M_{\theta\phi}$1.37±.01; $M_{\phi r}$-0.23±.01; Best double couple: NP1:ϕ_s259.00000°,δ84.00000°,λ43.00000°. NP2:ϕ_s164.00000° ,δ47.00000°,λ172.00000°. Principal axes: T 2.0050,Plg34.0000°,Azm131.0000° ; N 0.2650,Plg47.0000°,Azm265.0000°; P -2.2700,Plg24.0000°,Azm23.0000° $M_0$2.13700×10^{19}

NEIC Event type fe. Felt [V] at Honiara. Also felt at Tulagi. Complex earthquake observed on broadband displacement seismograms. A small event is followed by at least one other event about 2 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.10000×10^{19} Moment Tensor Solution. s73 Moment tensor: Scale 10^{19}Nm; M_{rr}0.34 $M_{\theta\theta}$0.70 $M_{\phi\phi}$0.36 $M_{r\theta}$-1.27 $M_{\theta\phi}$1.13 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ170.00000°. NP2:ϕ_s262.00000° ,δ83.00000°,λ47.00000°. Principal axes: T 1.7300,Plg37.0000°,Azm136.0000° ; N 0.1500,Plg42.0000°,Azm269.0000°; P -1.8800,Plg26.0000°,Azm24.0000° $M_0$1.80000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ21.00000°,λ166.00000°. NP2:ϕ_s260.00000°,δ85.00000°,λ70.00000°. Principal axes: T Plg46.0000°,Azm149.0000°; N Plg0.0000°,Azm0.0000°; P Plg37.0000° ,Azm8.0000°

IDC Error ellipse: s-maj=10.4km s-min=7.4km az=58.0.

MOS Error ellipse: s-maj=6.6km s-min=5.4km az=90.6.

NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{19}Nm; M_{rr}0.24 $M_{\theta\theta}$-0.91 $M_{\phi\phi}$0.66 $M_{r\theta}$-1.16 $M_{\theta\phi}$1.26 $M_{\phi r}$-0.26 Best double couple: NP1:ϕ_s257.00000° ,δ86.00000°,λ40.00000°. NP2:ϕ_s163.00000°,δ50.00000°,λ174.00000°. Principal axes: T 1.8200,Plg30.0000°,Azm127.0000°; N 0.1700,Plg50.0000°,Azm261.0000° ; P -1.9900,Plg23.0000°,Azm23.0000° $M_0$1.90000×10^{19}

(277) Jawa

ISC	**IV**	**26 06 39 35.1–.30**	**8.06S–.03**	**108.49E–.03**	**86–2**	**5.6b**	**1088**	**0-179**
BJI	IV	26 06 39 32.9	8.00S	108.50E	79	5.3b,5.3b		**¶16459965**
NEIC	IV	26 06 39 34.0–.00	8.43S	108.69E	79	5.3b,5.3b		
DJA	IV	26 06 39 35.2–.20	8S–2.0	108E–1.0	66–2	6.3,6.1b		
KLM	IV	26 06 39 35.5	8.33S	108.09E	115	6.5s,5.9L		
ISCJB	IV	26 06 39 35.3–.25	8.08S–.02	108.50E–.02	98–2	5.5b,5.9L		
MOS	IV	26 06 39 36.9–1.1	7.92S	108.57E	108	5.7b,4.6s		
NEIC	IV	26 06 39 36.5–.78	8.08S	108.48E	95–6	5.7b,5.6W		
GCMT	IV	26 06 39 38.0–.10	8.38S	108.40E	82–0	5.6W,5.6W		
IDC	IV	26 06 39 40.7–.67	8.03S	108.62E	131–5	5.4,5.1		

ISC Event type fe.

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}1.70 $M_{\theta\theta}$0.30 $M_{\phi\phi}$-2.00 $M_{r\theta}$1.00 $M_{\theta\phi}$-0.40 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s164.00000° ,δ73.00000°,λ72.00000°. NP2:ϕ_s32.00000°,δ23.00000°,λ135.00000°. Principal axes: T 3.3000,Plg57.0000°,Azm50.0000°; N 0.0000,Plg16.0000°,Azm169.0000° ; P -3.3000,Plg26.0000°,Azm267.0000° $M_0$3.00000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=27.4.

MOS Error ellipse: s-maj=7.9km s-min=5.0km az=111.8.

NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=50.0. Felt [IV] at Pangandaran; [III] at Bogor, Cilacap Karangkates and Yogyakarta; [II] at Bandung and Jakarta. Also felt at Banjaran, Karawang, Kebumen, Magelang, Padalarang, Purwokerto, Tasikmalaya and Wonosobo. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}2.35 $M_{\theta\theta}$0.29 $M_{\phi\phi}$-2.64 $M_{r\theta}$0.84 $M_{\theta\phi}$-0.44 $M_{\phi r}$-1.88 Best double couple: NP1:ϕ_s169.00000°,δ65.00000° ,λ71.00000°. NP2:ϕ_s28.00000°,δ31.00000°,λ125.00000°. Principal axes: T 3.2700,Plg64.0000°,Azm46.0000°; N 0.0000,Plg17.0000°,Azm177.0000° ; P -3.2700,Plg18.0000°,Azm273.0000° $M_0$3.30000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c220; s122,c258;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.34±.04 $M_{\theta\theta}$0.45±.04; $M_{\phi\phi}$-2.80±.05; $M_{r\theta}$1.10±.03; $M_{\theta\phi}$-0.25±.04; $M_{\phi r}$-1.85±.03; Best double couple: NP1: ϕ_s163.00000°,δ66.00000°,λ69.00000°. NP2:ϕ_s26.00000°,δ32.00000°,λ129.00000°. Principal axes: T 3.3700,Plg63.0000°,Azm38.0000°; N 0.0220,Plg20.0000°,Azm172.0000° ; P -3.3990,Plg18.0000°,Azm268.0000° $M_0$3.38500×10^{17}

IDC Error ellipse: s-maj=8.5km s-min=6.8km az=62.0.

(221) Kuril Islands

ISC	**IV**	**28 16 06 25.8–.54**	**47.18N–.06**	**150.83E–.05**	**174–4**	**4.2b**	**234**	**3-91**
ISCJB	IV	28 16 06 24.1–.36	47.17N–.04	150.87E–.05	173–3	4.2b		**¶16485463**
SKHL	IV	28 16 06 24.4–.50	47.05N	150.85E	160–9	5.6s,4.7b		
MOS	IV	28 16 06 24.8–1.0	47.32N	150.79E	175	4.3b,4.7b		
NEIC	IV	28 16 06 26.7–.47	47.26N	150.81E	180–4	4.4b,4.7b		
IDC	IV	28 16 06 26.4–1.4	47.20N	150.80E	176–12	4.2,4.0		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.4km az=140.1.

MOS Error ellipse: s-maj=7.8km s-min=6.3km az=85.3.

NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.2km az=142.0.

IDC Error ellipse: s-maj=12.2km s-min=8.5km az=137.0.

(243) Taiwan region

ISC	**IV**	**29 13 12 47.4–.28**	**21.20N–.02**	**122.03E–.03**	**195–2**	**5.5b**	**1389**	**1-175**
NIED	IV	29 13 12 00	21.10N	121.90E	110	5.2W		**¶16483657**
BJI	IV	29 13 12 43.4	21.12N	122.29E	177	5.5b,5.4b		
NEIC	IV	29 13 12 45.0–.00	21.18N	121.98E	177	5.5b,5.4b		
GCMT	IV	29 13 12 46.2–.10	21.24N	121.92E	185–1	5.3W,5.4b		
ISCJB	IV	29 13 12 46.2–.12	21.22N–.01	122.00E–.01	189–1	5.5b,5.4b		
JMA	IV	29 13 12 46.3–.30	21.14N	121.90E	175	5.3,5.4b		
NEIC	IV	29 13 12 46.2–.33	21.13N	122.01E	181–3	5.5b,5.4W		
MOS	IV	29 13 12 46.1–.90	21.20N	122.08E	194	5.6b,4.1s		
IDC	IV	29 13 12 48.6–.73	21.14N	122.12E	206–6	5.6,5.1		
BKK	IV	29 13 12 48.1–.60	21N–4.0	122E–5.0	205–7	6.2,5.4b		
TAP	IV	29 13 12 48.3	21.35N	122.07E	178–1	5.9L,5.4b		
MAN	IV	29 13 12 50	20.91N	121.89E	183	5.7b,5.1s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ52.00000°,λ174.00000°. NP2:ϕ_s307.00000°,δ86.00000°,λ38.00000°. $M_0$7.41000×10^{16}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ75.00000° ,λ-59.00000°. NP2:ϕ_s181.00000°,δ33.00000°,λ-152.00000°. Principal axes: T 1.0700,Plg23.0000°,Azm134.0000°; N 0.0900,Plg29.0000°,Azm239.0000° ; P -1.1600,Plg50.0000°,Azm11.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c139; s116,c204; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53±.02 $M_{\theta\theta}$-0.15±.02; $M_{\phi\phi}$0.68±.02; $M_{r\theta}$-0.92±.01; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$-0.25±.02; Best double couple: NP1:ϕ_s62.00000°,δ75.00000° ,λ-56.00000°. NP2:ϕ_s173.00000°,δ36.00000°,λ-154.00000°. Principal axes: T 1.2630,Plg23.0000°,Azm127.0000°; N 0.0340,Plg32.0000°,Azm233.0000° ; P -1.2960,Plg49.0000°,Azm9.0000° $M_0$1.28000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=2.1.

JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.8km az=96.0. Felt [II] at Kaohsiung. Also felt at Chungli, Fengyuan, Taichung, Tainan, Taipei and Tanshui. Felt [III PIVS] at Basco, Philippines. Also felt at Ballesteros. Recorded [2 TAP] at Changua, Chiayi, Kaoshiung, Pingtung, Taichung, Tainan, Taitung and Yunlin; [1 TAP] at Nantou and Penghu. Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ63.00000°,λ-60.00000°. NP2: ϕ_s179.00000°,δ39.00000°,λ-135.00000°. Principal axes: T 1.4000,Plg13.0000° ,Azm120.0000°; N -0.0100,Plg27.0000°,Azm217.0000°; P -1.3900,Plg60.0000°,Azm6.0000°

MOS Error ellipse: s-maj=6.3km s-min=3.7km az=110.1.

IDC Error ellipse: s-maj=6.7km s-min=4.7km az=62.0.

TAP C.

MAN Event type fe. INTENSITY III - BASCO BATANES.

(706) Northern Sumatera

ISC	**IV**	**30 17 09 00.2–.71**	**1.06N–.08**	**98.92E–.06**	**86**	**4.1b**	**40**	**0-143**
ISCJB	IV	30 17 08 58.4–.57	0.97N–.06	98.88E–.05	86	4.0b		**¶16485932**
IDC	IV	30 17 09 00.8–2.6	1.04N	98.95E	94–17	4.0,3.8		
NEIC	IV	30 17 09 02.9–.50	1.16N	98.95E	109–4	4.2b,3.8		
DJA	IV	30 17 09 03.8–.40	1N–4.0	99E–4.0	86–7	3.9,3.9		
KLM	IV	30 17 09 03.0	1.16N	98.95E	122	5.6s,4.1b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.5km az=34.8.

IDC Error ellipse: s-maj=37.4km s-min=15.7km az=56.0.

NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.0km az=223.0.

(248) Philippine Islands region

ISC	**V**	**01 11 06 57.1–.41**	**6.57N–.03**	**126.85E–.04**	**86–3**	**4.9b**	**508**	**1-162**
MAN	V	01 11 06 50	6.37N	127.10E	87	5.5b,4.9s		**¶16485960**
KLM	V	01 11 06 51.8	6.51N	127.30E	74	5.7s,5.1b		
ISCJB	V	01 11 06 54.5–.36	6.57N–.02	126.92E–.02	80–3	4.8b,5.1b		
IDC	V	01 11 06 54.0–1.2	6.58N	126.83E	61–10	4.6,4.5		
BJI	V	01 11 06 54.3	6.50N	126.90E	80	4.9b,4.7b		
GCMT	V	01 11 06 56.6–.20	6.56N	127.12E	36–1	5.1W,4.7b		
MOS	V	01 11 06 56.1–1.2	6.65N	126.81E	93	4.9b,4.3s		
NEIC	V	01 11 06 56.6–.60	6.55N	126.89E	83–5	5.0b,4.3s		
DJA	V	01 11 06 57.8–.60	7N–4.0	127E–3.0	77–5	5.8,5.6b		

ISC Event type se.

ISCJB Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c56; s91,c117;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.74±.22 $M_{\theta\theta}$3.57±.17; $M_{\phi\phi}$-6.31±.17; $M_{r\theta}$-1.75±.24; $M_{\theta\phi}$0.86±.12; $M_{\phi r}$2.81±.26; Best double couple: NP1:ϕ_s321.00000°,δ74.00000°,λ45.00000°. NP2:ϕ_s216.00000°,δ47.00000°,λ158.00000°. Principal axes: T 5.0760,Plg43.0000°,Azm189.0000°; N 2.1950,Plg42.0000°,Azm337.0000° ; P -7.2710,Plg17.0000°,Azm83.0000° $M_0$6.17400×10^{16}

NEIC Event type se.

(259) Mindanao

ISC	**V**	**02 14 25 20.5–.77**	**5.99N–.04**	**127.04E–.06**	**94–6**	**4.5b**	**193**	**1-100**
MOS	V	02 14 25 12.0–1.1	6.00N	126.96E	33	4.9b		**¶16489784**
ISCJB	V	02 14 25 18.6–.47	5.97N–.02	127.13E–.04	96–3	4.4b		
MAN	V	02 14 25 18	5.89N	127.10E	66	5.4b,4.6s		
IDC	V	02 14 25 20.3–1.5	5.95N	127.03E	93–13	4.3,4.1		
DJA	V	02 14 25 20.7–.60	6N–5.0	127E–4.0	71–5	5.6,5.4b		
NEIC	V	02 14 25 21.6–.97	5.98N	127.01E	107–9	4.6b,5.4b		
KLM	V	02 14 25 23.9	5.99N	126.82E	86	6.0s,4.7b		

ISC Event type se.

MOS Error ellipse: s-maj=19.7km s-min=7.1km az=118.7.

ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.5km az=166.5.

IDC Error ellipse: s-maj=21.7km s-min=9.2km az=71.0.

NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.3km az=73.0.

(280) Banda Sea

ISC	**V**	**04 17 55 22.7–.41**	**6.45S–.05**	**130.54E–.07**	**90**	**4.5b**	**84**	**2-151**
ISCJB	V	04 17 55 20.6–.28	6.41S–.04	130.61E–.04	90	4.5b		**¶16493791**
DJA	V	04 17 55 20.6–.30	6S–2.0	131E–4.0	115–4	5.8,5.7b		
NEIC	V	04 17 55 22.7–.64	6.34S	130.53E	88–6	4.6b,5.7b		
IDC	V	04 17 55 23.1–2.2	6.33S	130.51E	89–19	4.4,4.1b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=157.9.

NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.9km az=57.0.

IDC Error ellipse: s-maj=17.1km s-min=11.0km az=78.0.

(269) Southern Molucca Sea

ISC	**V**	**05 08 45 28.0–.36**	**0.17S–.03**	**124.61E–.03**	**62–2**	**5.1b**	**495**	**2-161**
IDC	V	05 08 45 19.3–.31	0.13S	124.27E	0	4.9,4.9b		**¶16497728**
ISCJB	V	05 08 45 25.9–.41	0.19S–.02	124.56E–.02	61–4	5.0b,4.9b		
MOS	V	05 08 45 25.3–1.0	0.14S	124.33E	58	5.4b,4.9b		
KLM	V	05 08 45 27.1	0.12S	124.68E	44	5.8s,5.1L		
NEIC	V	05 08 45 29.0–.57	0.20S	124.48E	73–5	5.1b,5.1L		
GCMT	V	05 08 45 29.0–.20	0.22S	124.54E	41–0	5.0W,5.1L		
DJA	V	05 08 45 29.1–.40	0S–2.0	125E–2.0	48–28	5.4b,5.4		

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s53,c64; s68,c86;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.50±.17 $M_{\theta\theta}$-1.94±.12; $M_{\phi\phi}$-1.56±.14; $M_{r\theta}$0.29±.10; $M_{\theta\phi}$-2.39±.08; $M_{\phi r}$1.23±.11; Best double couple: NP1:ϕ_s35.00000°,δ54.00000°,λ75.00000°. NP2:ϕ_s240.00000°,δ39.00000°,λ110.00000°. Principal axes: T 3.7970,Plg75.0000°,Azm258.0000°; N 0.4920,Plg12.0000°,Azm44.0000° ; P -4.2890,Plg8.0000°,Azm136.0000° $M_0$4.04300×10^{16}

(7) Andreanof Islands

ISC	**V**	**05 15 06 11.2–.60**	**51.49N–.06**	**178.36W–.03**	**62–4**	**5.3b**	**1076**	**0-160**
MOS	V	05 15 06 07.0–1.0	51.59N	178.34W	33	5.3b		**¶16497746**
BJI	V	05 15 06 09.6	51.43N	178.50W	68	5.9b,5.7s		
ISCJB	V	05 15 06 10.1–.32	51.49N–.03	178.27W–.02	69–2	5.2b,5.7s		
NEIC	V	05 15 06 11.1–.26	51.49N	178.38W	61–2	5.3L,5.3b		
IDC	V	05 15 06 11.2–1.7	51.57N	178.33W	60–14	5.0,4.9		

ISC Event type se.

MOS Error ellipse: s-maj=6.9km s-min=5.5km az=80.1.

ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.0km az=176.8.

NEIC Event type se. Error ellipse: s-maj=4.0km s-min=1.8km az=174.0.

IDC Error ellipse: s-maj=11.7km s-min=7.9km az=158.0.

(171) South of Fiji Islands

ISC	**V**	**05 16 15 25.3–.21**	**25.22S–.04**	**177.37W–.04**	**185–1**	**5.3b**	**1549**	**4-176**
BJI	V	05 16 15 18.0	25.10S	177.50W	130	5.5b,5.4b		¶16497755
MOS	V	05 16 15 22.4–.85	24.98S	177.55W	161	5.3b,5.4b		
ISCJB	V	05 16 15 24.5–.11	25.16S–.03	177.56W–.02	185	5.3b,5.4b		
GCMT	V	05 16 15 25.1–.20	25.12S	177.16W	186–1	5.6W,5.4b		
NEIC	V	05 16 15 25.1–.09	25.19S	177.55W	185	5.3b,5.4b		
IDC	V	05 16 15 26.1–.37	25.02S	177.54W	184–2	5.2,4.9		

ISC Event type se.
MOS Error ellipse: s-maj=9.0km s-min=7.2km az=82.5.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.5km az=152.7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c125; s120,c224;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.35±.05 $M_{\theta\theta}$-3.42±.07; $M_{\phi\phi}$0.06±.07; $M_{r\theta}$-0.89±.06; $M_{\theta\phi}$0.12±.07; $M_{\phi r}$-0.17±.06; Best double couple: NP1: ϕ_s269.00000°,δ52.00000°,λ86.00000°. NP2:ϕ_s95.00000°,δ38.00000°,λ95.00000°. Principal axes: T 3.4750,Plg82.0000°,Azm157.0000°; N 0.0550,Plg3.0000°,Azm271.0000° ; P -3.5380,Plg7.0000°,Azm2.0000° $M_0$3.50600×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=144.0.
IDC Error ellipse: s-maj=10.8km s-min=8.0km az=163.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**V**	**06 06 46 25.3–.30**	**0.11S–.02**	**122.86E–.03**	**101–2**	**5.6b**	**1511**	**1-177**
BJI	V	06 06 46 22.6	0.10S	123.00E	82	5.5b,5.5b		¶16497787
NEIC	V	06 06 46 23.5–.08	0.07S	122.95E	82	5.8b,5.5W		
NEIC	V	06 06 46 23.0–.00	0.33S	122.91E	85	5.8b,5.5W		
GCMT	V	06 06 46 23.5–.10	0.05S	122.89E	92–0	5.5W,5.5W		
IDC	V	06 06 46 24.0–1.3	0.09S	122.84E	90–11	5.3,5.0		
ISCJB	V	06 06 46 24.5–.25	0.14S–.01	122.96E–.02	109–2	5.5b,5.0		
MOS	V	06 06 46 25.5–1.3	0.03S	122.89E	114	5.5b,4.3s		
KLM	V	06 06 46 25.1	0.32S	122.90E	86	6.3s,5.7b		
DJA	V	06 06 46 26.0–.20	0S–2.0	123E–1.0	91–2	6.4,6.0b		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gorontalo and [III] at Luwuk and Manado. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.43 $M_{\phi\phi}$-1.22 $M_{r\theta}$0.07 $M_{\theta\phi}$-1.01 $M_{\phi r}$-1.48 Best double couple: NP1:ϕ_s192.00000°,δ66.00000°,λ69.00000°. NP2:ϕ_s56.00000° ,δ32.00000°,λ129.00000°. Principal axes: T 2.3600,Plg63.0000°,Azm67.0000° ; N -0.0600,Plg19.0000°,Azm201.0000°; P -2.2900,Plg18.0000°,Azm298.0000° $M_0$2.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-1.46 $M_{r\theta}$-0.14 $M_{\theta\phi}$-1.10 $M_{\phi r}$-0.94 Best double couple: NP1:ϕ_s198.00000° ,δ59.00000°,λ76.00000°. NP2:ϕ_s44.00000°,δ34.00000°,λ112.00000°. Principal axes: T 1.9300,Plg72.0000°,Azm73.0000°; N 0.3600,Plg12.0000°,Azm205.0000° ; P -2.2900,Plg12.0000°,Azm298.0000° $M_0$2.10000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c219; s127,c269;Duration: 1s4 Moment tensor: Scale 10^{17} Nm; M_{rr}1.67±.02 $M_{\theta\theta}$-0.44±.02; $M_{\phi\phi}$-1.23±.03; $M_{r\theta}$0.12±.02; $M_{\theta\phi}$-1.29±.02; $M_{\phi r}$-0.97±.02; Best double couple: NP1:ϕ_s195.00000°,δ59.00000°,λ64.00000°. NP2:ϕ_s59.00000° ,δ40.00000°,λ126.00000°. Principal axes: T 2.0820,Plg65.0000°,Azm58.0000° ; N 0.2330,Plg22.0000°,Azm210.0000°; P -2.3170,Plg11.0000°,Azm304.0000° $M_0$2.19900×10^{17}
ISCJB Event type fe.

(280) Banda Sea

ISC	**V**	**07 16 14 52.3–.56**	**6.62S–.05**	**130.39E–.07**	**150**	**3.8b**	**40**	**2-146**
ISCJB	V	07 16 14 51.4–.45	6.64S–.04	130.32E–.06	150	3.9b		¶17202995
IDC	V	07 16 14 53.7–2.5	6.49S	129.95E	141–25	4.2,3.8		
DJA	V	07 16 14 55.2–.30	6S–3.0	130E–3.0	162–8	5.7b,5.3		

ISC Event type ke.
ISCJB Event type ke.

(266) Northern Molucca Sea

ISC	**V**	**08 15 51 37.9–.54**	**1.05N–.03**	**125.42E–.04**	**76–4**	**4.8b**	**422**	**2-160**
MOS	V	08 15 51 32.8–1.1	1.19N	125.14E	41	5.3b		¶16499313
ISCJB	V	08 15 51 37.2–.29	1.09N–.02	125.44E–.02	84–3	4.8b		
IDC	V	08 15 51 37.6–1.5	1.11N	125.26E	73–13	4.8,4.5		
NEIC	V	08 15 51 38.9–.63	1.07N	125.31E	86–6	4.9b,4.5		
BJI	V	08 15 51 38.7	1.00N	125.30E	84	4.9b,4.8b		
DJA	V	08 15 51 38.7–.20	1N–2.0	126E–2.0	57–3	5.7,5.5b		
GCMT	V	08 15 51 38.9–.20	1.18N	125.28E	59–2	5.1W,5.5b		
KLM	V	08 15 51 43.3	1.00N	125.14E	65	5.6s,5.4L		

ISC Event type fe.
MOS Error ellipse: s-maj=10.0km s-min=5.3km az=114.6.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=162.5.
IDC Error ellipse: s-maj=11.8km s-min=8.6km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=61.0. Felt [IV] at Manado and [III] at Tondano, Indonesia.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c75; s68,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.94±.16 $M_{\theta\theta}$-2.88±.13; $M_{\phi\phi}$1.94±.18; $M_{r\theta}$1.38±.12; $M_{\theta\phi}$4.47±.13; $M_{\phi r}$2.80±.17; Best double couple: NP1:ϕ_s342.00000°,δ71.00000° ,λ156.00000°. NP2:ϕ_s80.00000°,δ67.00000°,λ20.00000°. Principal axes: T 6.3880,Plg30.0000°,Azm300.0000°; N -0.8250,Plg60.0000°,Azm126.0000° ; P -5.5600,Plg3.0000°,Azm32.0000° $M_0$5.97400×10^{16}

(259) Mindanao

ISC	**V**	**11 01 28 06.8–.58**	**6.10N–.04**	**126.02E–.05**	**97–5**	**4.8b**	**271**	**1-163**
DJA	V	11 01 28 02.6–.60	7N–5.0	126E–4.0	49–5	5.7b,5.5		¶16503611
MOS	V	11 01 28 02.9–1.2	6.08N	125.84E	77	5.1b,5.5		
ISCJB	V	11 01 28 05.8–.32	6.06N–.02	126.03E–.03	98–3	4.8b,5.5		
MAN	V	11 01 28 05	6.06N	125.99E	98	5.4b,4.6s		
BJI	V	11 01 28 06.0	6.00N	126.00E	105	5.0b,4.8b		
IDC	V	11 01 28 06.0–.70	6.02N	125.81E	97–5	4.7,4.4		
NEIC	V	11 01 28 08.4–.69	6.04N	125.95E	111–6	4.9b,4.4		

ISC Event type fe.
MOS Error ellipse: s-maj=11.1km s-min=6.0km az=110.5.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=168.1.
MAN Event type fe. INTENSITY II - DAVAO CITY.
IDC Error ellipse: s-maj=16.3km s-min=8.1km az=77.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=76.0. Felt [II PIVS] at Davao and Digos.

(280) Banda Sea

ISC	**V**	**11 07 00 35.3–.90**	**6.21S–.05**	**131.15E–.10**	**100**		**19**	**2-72**
IDC	V	11 07 00 24.2–4.6	5.41S	132.30E	0	4.1b,4.0		¶17203363
ISCJB	V	11 07 00 35.6–.64	6.14S–.05	131.12E–.08	100	3.9b,4.0		
DJA	V	11 07 00 42.6–.40	6S–3.0	131E–4.0	138–9	5.6b,5.1		

ISC Event type ke.
ISCJB Event type ke.

(267) Halmahera

ISC	**V**	**11 07 54 31.0–.28**	**1.51N–.03**	**127.22E–.05**	**103**	**4.9b**	**286**	**2-167**
ISCJB	V	11 07 54 29.3–.18	1.58N–.02	127.29E–.03	103	4.9b		¶16503620
BJI	V	11 07 54 29.6	1.50N	127.20E	95	5.0b,4.9b		
KLM	V	11 07 54 29.9	1.32N	127.27E	89	6.5s,5.1b		
MOS	V	11 07 54 30.7–.87	1.55N	127.21E	119	4.9b,5.1b		
GCMT	V	11 07 54 31.2–.40	1.70N	126.74E	83–3	5.1W,5.1b		
NEIC	V	11 07 54 31.2–.65	1.53N	127.25E	108–6	5.2b,5.1b		
IDC	V	11 07 54 31.4–1.6	1.51N	127.29E	112–13	4.8,4.4		
DJA	V	11 07 54 32.1–.20	2N–2.0	127E–2.0	100–2	5.7b,5.4		

ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c24; s62,c86;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.54±.21 $M_{\theta\theta}$2.46±.21; $M_{\phi\phi}$-6.00±.24; $M_{r\theta}$-0.89±.13; $M_{\theta\phi}$3.31±.22; $M_{\phi r}$-0.01±.20; Best double couple: NP1:ϕ_s306.00000°,δ62.00000°,λ35.00000°. NP2:ϕ_s197.00000°,δ59.00000°,λ147.00000°. Principal axes: T 4.4170,Plg44.0000°,Azm162.0000°; N 2.7310,Plg46.0000°,Azm339.0000° ; P -7.1480,Plg1.0000°,Azm71.0000° $M_0$5.78300×10^{16}
NEIC Event type se.

(193) Bougainville-Solomon Islands region

ISC	**V**	**12 04 44 45.7–.29**	**6.98S–.05**	**155.81E–.05**	**62**	**4.9b**	**225**	**5-161**
ISCJB	V	12 04 44 44.3–.23	6.97S–.04	155.83E–.04	62	4.9b		¶16560038
MOS	V	12 04 44 46.0–1.0	6.97S	155.82E	75	5.0b		
IDC	V	12 04 44 48.9–1.7	7.05S	155.80E	91–15	4.6,4.4		
NEIC	V	12 04 44 48.4–.72	7.01S	155.85E	88–6	4.9b,4.4		
DJA	V	12 04 44 50.1–.90	7S–4.0	156E–7.0	89–8	5.9b,5.5		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(705) Off west coast of northern Sumatera

ISC	**V**	**12 07 41 09.3–.66**	**5.18N–.05**	**94.69E–.05**	**71–5**	**4.7b**	**219**	**2-142**
IDC	V	12 07 41 00.5–.67	5.15N	94.70E	0	4.6,4.5b		¶16506400
NEIC	V	12 07 41 06.0–.32	5.14N	94.60E	35	4.8b,4.5b		
ISCJB	V	12 07 41 07.3–.58	5.19N–.03	94.75E–.03	63–5	4.7b,4.5b		
MOS	V	12 07 41 07.0–1.1	5.27N	94.83E	57	5.0b,4.5b		
DJA	V	12 07 41 08.9–1.5	5N–3.0	95E–5.0	35–15	5.7b,5.2		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.
ISCJB Event type fe.

(269) Southern Molucca Sea

ISC	**V**	**13 05 11 55.5–.67**	**0.03S–.04**	**124.32E–.04**	**91–6**	**4.6b**	**156**	**1-145**
ISCJB	V	13 05 11 53.8–.32	0.01S–.03	124.31E–.02	88–3	4.5b		¶16508005
DJA	V	13 05 11 55.4–.20	0S–3.0	124E–2.0	46–10	5.6b,5.5		
KLM	V	13 05 11 55.4	0.04N	124.30E	32	6.2s,5.1L		
IDC	V	13 05 11 55.3–1.8	0.04N	124.13E	93–16	4.3,4.1		
NEIC	V	13 05 11 57.2–.65	0.00S	124.21E	108–6	4.7b,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=28.7.
IDC Error ellipse: s-maj=16.1km s-min=10.2km az=80.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=52.0.

(78) Costa Rica

ISC	**V**	**13 22 47 55.3–.36**	**10.11N–.03**	**84.19W–.03**	**77–2**	**5.5b**	**1650**	**0-165**
MOS	V	13 22 47 52.0–1.2	10.18N	84.21W	55	5.6b,5.1s		¶602607319
IDC	V	13 22 47 52.5–1.2	10.30N	84.12W	52–9	5.4,5.3		
CASC	V	13 22 47 53.9–7.4	10.02N	84.19W	74–15	5.3L,4.6		
NEIC	V	13 22 47 54.0	9.95N	84.31W	73	5.9W,5.9W		
ISCJB	V	13 22 47 54.9–.16	10.16N–.02	84.28W–.01	88–1	5.4b,5.9W		
GCMT	V	13 22 47 54.0–.10	10.01N	84.31W	85–0	6.0W,5.9W		
NEIC	V	13 22 47 55.0–.00	10.10N	84.26W	70	6.0W,5.9W		
BJI	V	13 22 47 56.5	10.10N	84.30W	96	5.5b,5.9W		

ISC Event type se.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=101.0.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=57.0.
CASC Error ellipse: s-maj=17.7km s-min=13.0km az=-1.0.
NEIC Event type fe. Felt [VI] at Santiago and Turrucares and [V] throughout the Valle Central. Felt in most of Costa Rica. Felt [II] at David, Panama. Felt widely in western Panama and at Bluefields and San Juan del Sur, Nicaragua. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After UCR. Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ65.00000°,λ10.00000°. NP2: ϕ_s31.00000°,δ81.00000°,λ155.00000°. Principal axes: T 1.0200,Plg24.0000°,Azm345.0000° ; N 0.0000,Plg63.0000°,Azm192.0000°; P -1.0200,Plg11.0000°,Azm80.0000° Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.03 $M_{\theta\theta}$5.94 $M_{\phi\phi}$-7.96 $M_{r\theta}$4.76 $M_{\theta\phi}$2.40 $M_{\phi r}$2.64 Best double couple: NP1:ϕ_s131.00000°,δ58.00000°,λ18.00000°. NP2: ϕ_s31.00000°,δ75.00000°,λ146.00000°. Principal axes: T 9.8000,Plg34.0000°,Azm347.0000° ; N -1.0700,Plg54.0000°,Azm190.0000°; P -8.7300,Plg11.0000°,Azm84.0000° $M_0$9.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ71.00000°,λ16.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ160.00000°. Principal axes: T Plg25.0000°,Azm352.0000°; N Plg0.0000°,Azm0.0000°; P Plg3.0000° ,Azm83.0000°
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=1.6km az=33.5.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c280; s131,c385;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}0.20±.01 $M_{\theta\theta}$0.76±.01; $M_{\phi\phi}$-0.96±.01; $M_{r\theta}$0.54±.01; $M_{\theta\phi}$0.27±.01; $M_{\phi r}$0.36±.01; Best double couple: NP1:ϕ_s33.00000°,δ78.00000°,λ146.00000°. NP2:ϕ_s131.00000° ,δ57.00000°,λ14.00000°. Principal axes: T 1.1740,Plg32.0000°,Azm347.0000° ; N -0.0990,Plg54.0000°,Azm196.0000°; P -1.0750,Plg14.0000°,Azm86.0000° $M_0$1.12500×10^{18}
NEIC Event type se. Moment Tensor Solution. s54 Moment tensor: Scale 10^{17}Nm; M_{rr}1.27 $M_{\theta\theta}$5.84 $M_{\phi\phi}$-7.11 $M_{r\theta}$5.29 $M_{\theta\phi}$1.45 $M_{\phi r}$2.34 Best double couple: NP1:ϕ_s36.00000°,δ77.00000° ,λ144.00000°. NP2:ϕ_s135.00000°,δ55.00000°,λ15.00000°. Principal axes: T 9.6900,Plg33.0000°,Azm349.0000°; N -1.9700,Plg52.0000°,Azm199.0000° ; P -7.7100,Plg14.0000°,Azm89.0000° $M_0$8.90000×10^{17}

(269) Southern Molucca Sea

ISC	**V**	**14 01 19 34.7–.54**	**0.06S–.04**	**124.92E–.04**	**68–4**	**4.9b**	**281**	**1-159**
ISCJB	V	14 01 19 32.8–.41	0.08S–.03	124.97E–.02	66–4	4.8b		¶16510222
MOS	V	14 01 19 33.8–1.5	0.02N	124.92E	72	5.3b		
KLM	V	14 01 19 34.0	0.16S	125.18E	81	5.7s,4.8b		
IDC	V	14 01 19 33.9–1.4	0.10S	124.85E	60–12	4.8,4.5		
DJA	V	14 01 19 34.1–.20	0N–2.0	125E–2.0	42–4	5.4b,5.2		
NEIC	V	14 01 19 35.9–.75	0.12S	124.86E	80–7	4.9b,5.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.9km az=27.1.
MOS Error ellipse: s-maj=10.2km s-min=6.2km az=115.3.
IDC Error ellipse: s-maj=11.8km s-min=7.3km az=77.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.4km az=65.0.

(718) Hindu Kush region

ISC	**V**	**14 21 07 21.8–.16**	**36.43N–.02**	**70.72E–.02**	**208–1**	**5.7b**	**2062**	**3-154**
MOS	V	14 21 07 17.9–.87	36.34N	70.74E	180	6.0b,5.1s		¶16512075
ISCJB	V	14 21 07 19.9–.22	36.45N–.01	70.74E–.01	198–2	5.6b,5.1s		
BJI	V	14 21 07 20.9	36.55N	70.65E	208	6.1b,5.8b		
IDC	V	14 21 07 21.9–.33	36.33N	70.76E	208–2	5.9,5.4		
GCMT	V	14 21 07 22.2–.10	36.45N	70.62E	210–0	6.0W,5.4		
NEIC	V	14 21 07 22.0–.00	36.44N	70.74E	207	6.0W,5.4		
NEIC	V	14 21 07 22.2–.10	36.41N	70.75E	207	6.0W,5.9W		
NNC	V	14 21 07 25.6–1.5	36.96N	70.53E	214–8	7.0,5.7b		

ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=113.0. Felt (III) at Dushanbe, Tashkent; (II) at Shymkent. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.4km az=22.7.
IDC Error ellipse: s-maj=7.2km s-min=5.3km az=2.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c253; s130,c440;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}0.78±.01 $M_{\theta\theta}$-0.66±.01; $M_{\phi\phi}$-0.12±.01; $M_{r\theta}$0.74±.01; $M_{\theta\phi}$0.23±.01; $M_{\phi r}$-0.52±.01; Best double couple: NP1:ϕ_s121.00000°,δ70.00000°,λ97.00000°. NP2:ϕ_s281.00000° ,δ21.00000°,λ72.00000°. Principal axes: T 1.2130,Plg64.0000°,Azm42.0000° ; N -0.0630,Plg6.0000°,Azm299.0000°; P -1.1500,Plg25.0000°,Azm206.0000° $M_0$1.18200×10^{18}
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}6.40 $M_{\theta\theta}$-5.30 $M_{\phi\phi}$-1.10 $M_{r\theta}$6.58 $M_{\theta\phi}$1.72 $M_{\phi r}$-3.94 Best double couple: NP1:ϕ_s118.00000° ,δ71.00000°,λ95.00000°. NP2:ϕ_s283.00000°,δ20.00000°,λ76.00000°. Principal axes: T 10.1000,Plg63.0000°,Azm36.0000°; N -0.6000,Plg4.0000°,Azm296.0000° ; P -9.5000,Plg25.0000°,Azm204.0000° $M_0$9.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=204.0. Felt [III] at Bagrami, Charikar, Faizabad, Kabul and Qunduz; [II] at Jabal-os-Saraj, Jalalabad and Mazar-e Sharif. Also felt at Baghlan, Baghran and Basawul. Felt [IV] at Islamabad and [III] at Peshawar, Pakistan. Also felt at Abbottabad, Mingaora and Rawalpindi. Felt [III] at Dushanbe, Tajikistan. Also felt at Garm. Felt [III] at Tashkent, Uzbekistan. Felt [II] at Shymkent, Kazakhstan. Also felt at Taraz. Felt at Baramula, Chandigarh and Noida, India. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ68.00000°,λ97.00000°. NP2:ϕ_s282.00000° ,δ23.00000°,λ74.00000°. Principal axes: T 1.0600,Plg66.0000°,Azm41.0000° ; N -0.0100,Plg6.0000°,Azm297.0000°; P -1.0500,Plg23.0000°,Azm204.0000°
NNC Event type se. Error ellipse: s-maj=14.5km s-min=7.9km az=157.0.

(201) Irian Jaya

ISC	**V**	**15 06 47 04.2–.31**	**3.07S–.03**	**139.70E–.03**	**93–2**	**5.5b**	**724**	**1-154**
BJI	V	15 06 46 58.5	3.44S	140.10E	90	5.5b,5.4b		¶16512093
ISCJB	V	15 06 47 02.9–.37	3.08S–.02	139.71E–.02	93–3	5.4b,5.4b		
MOS	V	15 06 47 02.5–.96	3.04S	139.68E	89	5.5b,5.4b		
IDC	V	15 06 47 03.5–.54	3.11S	139.81E	88–4	5.2,4.9		
NEIC	V	15 06 47 04.0–.00	3.26S	139.67E	86	5.2,4.9		
NEIC	V	15 06 47 05.3–.62	3.11S	139.70E	103–6	5.6b,5.4W		
DJA	V	15 06 47 05.2–.20	3S–2.0	140E–2.0	92–3	6.7,6.0b		
GCMT	V	15 06 47 05.3–.10	3.01S	139.76E	95–0	5.4W,6.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.2km az=24.0.
MOS Error ellipse: s-maj=9.2km s-min=5.2km az=103.6.
IDC Error ellipse: s-maj=8.8km s-min=7.3km az=80.0.

NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}1.20 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-0.60 $M_{r\theta}$-0.50 $M_{\theta\phi}$0.70 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s316.00000° ,δ60.00000°,λ93.00000°. NP2:ϕ_s130.00000°,δ29.00000°,λ84.00000°. Principal axes: T 1.4000,Plg74.0000°,Azm235.0000°; N 0.1000,Plg2.0000°,Azm135.0000° ; P -1.5000,Plg15.0000°,Azm44.0000° $M_0$1.00000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=207.0. Felt [III] at Genyem, Jayapura, Sentani and Wamena. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17} Nm; M_{rr}1.51 $M_{\theta\theta}$-0.66 $M_{\phi\phi}$-0.86 $M_{r\theta}$0.04 $M_{\theta\phi}$0.67 $M_{\phi r}$0.18 Best double couple: NP1: ϕ_s134.00000°,δ43.00000°,λ82.00000°. NP2:ϕ_s325.00000°,δ47.00000°,λ97.00000°. Principal axes: T 1.5300,Plg84.0000°,Azm297.0000°; N -0.0900,Plg5.0000°,Azm140.0000° ; P -1.4400,Plg2.0000°,Azm49.0000° $M_0$1.50000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c184; s115,c206;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40±.02 $M_{\theta\theta}$-0.81±.02; $M_{\phi\phi}$-0.58±.03; $M_{r\theta}$0.06±.02; $M_{\theta\phi}$0.83±.02; $M_{\phi r}$0.26±.02; Best double couple: NP1: ϕ_s321.00000°,δ48.00000°,λ104.00000°. NP2:ϕ_s121.00000°,δ43.00000°,λ75.00000°. Principal axes: T 1.4470,Plg80.0000°,Azm298.0000°; N 0.0940,Plg10.0000°,Azm132.0000° ; P -1.5360,Plg2.0000°,Azm42.0000° $M_0$1.49100×10^{17}

(216) Mariana Islands

ISC	**V**	**18 02 43 20.0–.33**	**13.93N–.04**	**144.81E–.04**	**154–2**	**4.8b**	**506**	**0-156**
MOS	V	18 02 43 19.4–1.2	14.00N	144.73E	158	4.9b		**¶16525128**
ISCJB	V	18 02 43 19.4–.47	13.92N–.03	144.69E–.03	156–4	4.8b		
NEIC	V	18 02 43 21.0–.60	13.93N	144.74E	159–5	4.8b		
IDC	V	18 02 43 20.0–.59	13.97N	144.89E	154–4	4.7,4.4		
GCMT	V	18 02 43 21.0–.20	13.77N	144.76E	156–1	5.3W,4.4		
DJA	V	18 02 43 22.1–.40	14N–4.0	145E–6.0	140–6	5.5b,5.1b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Mangilao and Santa Rita; [III] at Barrigada, Dededo and Hagatna Heights; [II] at Andersen AFB, Apra Harbor, Tamuning and Yigo. Also felt at Agat, Hagatna, Inarajan and Talofofo.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c90; s96,c148;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$0.06±.02; $M_{r\theta}$-0.01±.02; $M_{\theta\phi}$-0.93±.02; $M_{\phi r}$-0.41±.01; Best double couple: NP1:ϕ_s359.00000°,δ86.00000°,λ-24.00000°. NP2:ϕ_s91.00000° ,δ66.00000°,λ-176.00000°. Principal axes: T 1.0600,Plg14.0000°,Azm47.0000° ; N -0.0800,Plg65.0000°,Azm171.0000°; P -0.9790,Plg20.0000°,Azm312.0000° $M_0$1.01900×10^{17}

(282) South of Jawa

ISC	**V**	**18 05 01 42.6–.59**	**9.28S–.04**	**112.65E–.04**	**63–5**	**5.0b**	**452**	**1-166**
IDC	V	18 05 01 34.3–.34	9.19S	112.62E	0	5.0,4.9		**¶16525131**
BJI	V	18 05 01 38.7	9.40S	112.60E	50	5.1b,4.9b		
MOS	V	18 05 01 39.0–.89	9.15S	112.65E	46	5.2b,4.9b		
NEIC	V	18 05 01 39.5–.19	9.29S	112.56E	35	5.1b,4.9b		
DJA	V	18 05 01 39.1–.30	10S–3.0	113E–2.0	10	5.8b,5.8b		
KLM	V	18 05 01 41.0	9.59S	112.56E	28	6.3s,5.3L		
ISCJB	V	18 05 01 42.3–.40	9.25S–.03	112.61E–.02	79–3	4.9b,5.3L		

ISC Event type fe.
NEIC Event type fe. Felt at Malang. Also felt at Denpasar and Kuta, Bali.
ISCJB Event type fe.

(153) South Sandwich Islands region

ISC	**V**	**21 00 16 27.1–.47**	**56.15S–.05**	**27.18W–.04**	**64–3**	**5.7b**	**826**	**6-176**
MOS	V	21 00 16 24.0–.99	56.08S	26.93W	41	5.8b,5.5s		**¶16531581**
BJI	V	21 00 16 24.6	56.10S	27.10W	47	5.7s,5.6b		
ISCJB	V	21 00 16 24.4–.17	56.06S–.03	27.27W–.06	50	5.7b,5.5s		
NEIC	V	21 00 16 25.6–.98	56.07S	27.11W	48–8	5.9W,5.9W		
GCMT	V	21 00 16 25.6–.10	56.04S	26.92W	46–0	5.9W,5.9W		
NEIC	V	21 00 16 26.0–.00	56.07S	27.11W	48	5.9W,5.9W		
IDC	V	21 00 16 27.3–1.5	56.08S	27.18W	64–12	5.5,5.4		

ISC Event type se.
MOS Error ellipse: s-maj=18.8km s-min=9.7km az=95.1.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=142.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=55.0. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}4.80 $M_{\theta\theta}$2.24 $M_{\phi\phi}$-7.05 $M_{r\theta}$-3.15 $M_{\theta\phi}$-3.08 $M_{\phi r}$1.76 Best double couple: NP1:ϕ_s345.00000°,δ60.00000°,λ44.00000°. NP2:ϕ_s229.00000° ,δ53.00000°,λ141.00000°. Principal axes: T 7.6300,Plg52.0000°,Azm200.0000° ; N 0.4000,Plg38.0000°,Azm13.0000°; P -8.0300,Plg4.0000°,Azm106.0000° $M_0$7.80000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c254; s137,c401;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.22±.01 $M_{\theta\theta}$0.50±.01; $M_{\phi\phi}$-0.71±.01; $M_{r\theta}$-0.33±.01; $M_{\theta\phi}$-0.43±.01; $M_{\phi r}$0.11±.01; Best double couple: NP1: ϕ_s337.00000°,δ70.00000°,λ22.00000°. NP2:ϕ_s239.00000°,δ70.00000°,λ158.00000°. Principal axes: T 0.8330,Plg30.0000°,Azm198.0000°; N 0.0250,Plg60.0000°,Azm18.0000° ; P -0.8590,Plg0.0000°,Azm108.0000° $M_0$0.84600×10^{18}

NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}2.45 $M_{\theta\theta}$4.38 $M_{\phi\phi}$-6.83 $M_{r\theta}$-2.40 $M_{\theta\phi}$-3.94 $M_{\phi r}$0.14 Best double couple: NP1:ϕ_s239.00000° ,δ73.00000°,λ157.00000°. NP2:ϕ_s336.00000°,δ68.00000°,λ18.00000°. Principal axes: T 6.8600,Plg27.0000°,Azm196.0000°; N 1.2400,Plg61.0000°,Azm24.0000° ; P -8.1100,Plg3.0000°,Azm288.0000° $M_0$7.60000×10^{17}

IDC Error ellipse: s-maj=12.1km s-min=10.4km az=21.0.

(224) Hokkaido region

ISC	**V**	**21 17 45 01.4–.51**	**43.56N–.04**	**144.78E–.04**	**145–4**	**4.4b**	**274**	**0-84**
ISCJB	V	21 17 45 00.6–.20	43.57N–.03	144.80E–.03	148–1	4.4b		**¶16535812**
NIED	V	21 17 45 00	43.50N	144.90E	150	4.0W		
MOS	V	21 17 45 00.4–.93	43.64N	144.69E	145	4.3b		
IDC	V	21 17 45 01.4–1.1	43.59N	144.83E	144–8	4.3,4.0		
JMA	V	21 17 45 01.7–.10	43.51N	144.85E	143–1	4.0,4.0		
SKHL	V	21 17 45 01.8–.70	43.56N	144.87E	145–4	5.8s,4.6b		
NEIC	V	21 17 45 02.1–.33	43.61N	144.74E	146–3	4.6b,4.6b		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=149.4.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s356.00000°,δ23.00000°,λ-169.00000°. NP2:ϕ_s256.00000°,δ86.00000°,λ-67.00000°. $M_0$1.22000×10^{15}
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=107.5.
IDC Error ellipse: s-maj=13.2km s-min=11.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=139.0.

(280) Banda Sea

ISC	**V**	**21 21 37 11.0–.24**	**5.85S–.03**	**129.49E–.04**	**250**	**4.6b**	**336**	**1-152**
MOS	V	21 21 37 08.9–.96	5.80S	129.40E	243	4.7b		**¶16532058**
ISCJB	V	21 21 37 09.7–.14	5.82S–.02	129.49E–.03	250	4.6b		
NEIC	V	21 21 37 11.1–.35	5.82S	129.43E	252–3	4.9b		
IDC	V	21 21 37 11.7–.87	5.78S	129.51E	255–8	4.8,4.2		
KLM	V	21 21 37 12.1	6.03S	129.24E	254	6.0s,5.0b		
DJA	V	21 21 37 12.4–.20	6S–3.0	129E–2.0	238–4	5.6,5.3b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(250) Mindoro

ISC	**V**	**22 16 42 23.5–.21**	**13.62N–.02**	**120.81E–.03**	**139–1**	**5.5b**	**1745**	**0-177**
MOS	V	22 16 42 22.5–.91	13.61N	120.84E	143	5.4b,4.7s		**¶16532394**
MAN	V	22 16 42 23	13.65N	120.71E	103	6.0b,5.7s		
ISCJB	V	22 16 42 23.8–.23	13.63N–.01	120.85E–.02	154–2	5.4b,5.7s		
NEIC	V	22 16 42 23.0–.00	13.67N	120.72E	134	5.4b,5.7s		
BJI	V	22 16 42 23.1	13.58N	120.94E	158	5.6b,5.5b		
IDC	V	22 16 42 23.1–.38	13.59N	120.75E	133–3	5.5,5.2		
NEIC	V	22 16 42 24.5–.44	13.60N	120.75E	149–4	5.7W,5.7W		
GCMT	V	22 16 42 24.5–.10	13.67N	120.68E	128–0	5.7W,5.7W		
KLM	V	22 16 42 24.1	13.66N	120.80E	141	6.1s,5.7b		
BKK	V	22 16 42 28.3–.60	14N–4.0	121E–3.0	171–5	6.0,5.8		
DJA	V	22 16 42 29.7–.40	14N–2.0	121E–3.0	196–5	5.8b,5.7		

ISC Event type fe.
MAN Event type fe. INTENSITY IV - ILIJAN BATANGAS; INTENSITY III - TAGAYTAY CITY; MALATE MANILA; PTO GALERA ORIENTAL MINDORO; TAGAYTAY CITY; ALABANG MUNTINLUPA; CLARK PAMPANGA; INTENSITY II - MALOLOS BULACAN; INTENSITY I - NICHOLS PASAY.
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}3.80 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$-3.20 $M_{r\theta}$0.30 $M_{\theta\phi}$0.70 $M_{\phi r}$1.20 Best double couple: NP1:ϕ_s354.00000° ,δ54.00000°,λ98.00000°. NP2:ϕ_s160.00000°,δ36.00000°,λ78.00000°. Principal axes: T 4.0000,Plg78.0000°,Azm295.0000°; N -0.4000,Plg6.0000°,Azm169.0000° ; P -3.6000,Plg8.0000°,Azm78.0000° $M_0$4.00000×10^{17}

NEIC Event type fe. Felt [IV PIVS] at Abra de Ilog and [III PIVS] at Calapan and Puerto Galera. Also felt at Naujan. Felt [IV PIVS] at Ilijan; [III PIVS] at Alabang, Clark Field, Malate and Tagaytay; [II PIVS] at Malolos; [I PIVS] at Nichols; [IV] at Batangas and Olongapo; [II] at Cavite, Manila and Santa Rosa, Luzon. Felt widely in central Luzon and as far as Abucay. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95 $M_{\theta\theta}$-0.28 $M_{\phi\phi}$-3.67 $M_{r\theta}$0.64 $M_{\theta\phi}$0.60 $M_{\phi r}$1.44 Best double couple: NP1:ϕ_s160.00000°,δ37.00000°,λ72.00000°. NP2:ϕ_s1.00000°,δ55.00000°,λ103.00000°. Principal axes: T 4.3300,Plg76.0000° ,Azm310.0000°; N -0.3400,Plg10.0000°,Azm174.0000°; P -4.0000,Plg10.0000° ,Azm83.0000° $M_0$4.20000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c223; s128,c328;Duration: 1s7 Moment tensor: Scale 10^{17} Nm; M_{rr}4.04±.03 $M_{\theta\theta}$-0.59±.04; $M_{\phi\phi}$-3.45±.04; $M_{r\theta}$0.23±.03; $M_{\theta\phi}$0.74±.04; $M_{\phi r}$1.36±.04; Best double couple: NP1:ϕ_s353.00000°,δ55.00000°,λ98.00000°. NP2:ϕ_s160.00000° ,δ36.00000°,λ79.00000°. Principal axes: T 4.3050,Plg79.0000°,Azm292.0000° ; N -0.4720,Plg6.0000°,Azm169.0000°; P -3.8360,Plg9.0000°,Azm78.0000° $M_0$4.07100×10^{17}

(259) Mindanao

ISC	**V**	**22 19 07 45.1–.36**	**6.00N–.03**	**125.76E–.04**	**168–2**	**5.2b**	**905**	**1-172**
MOS	V	22 19 07 41.4–.88	5.97N	125.59E	148	5.3b		**¶16533381**
BJI	V	22 19 07 43.5	6.02N	125.69E	161	5.2b,4.9b		
KLM	V	22 19 07 44.9	6.07N	126.00E	180	6.2s,5.4b		
IDC	V	22 19 07 44.5–.49	5.95N	125.61E	161–4	5.2,4.9		
ISCJB	V	22 19 07 45.2–.28	5.99N–.02	125.75E–.02	181–2	5.2b,4.9		
GCMT	V	22 19 07 46.1–.20	5.91N	125.79E	154–1	5.2W,4.9		
NEIC	V	22 19 07 46.1–.52	6.01N	125.70E	175–5	5.3b,4.9		
DJA	V	22 19 07 47.2–.80	6N–6.0	126E–7.0	120–12	5.7,5.6b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c56; s90,c156;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.24±.15 $M_{\theta\theta}$0.47±.18; $M_{\phi\phi}$-5.72±.22; $M_{r\theta}$1.07±.13; $M_{\theta\phi}$-2.73±.17; $M_{\phi r}$2.75±.17; Best double couple: NP1:ϕ_s21.00000°,δ58.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ32.00000°,λ89.00000°. Principal axes: T 5.9270,Plg77.0000°,Azm292.0000°; N 1.5060,Plg0.0000°,Azm201.0000° ; P -7.4380,Plg13.0000°,Azm111.0000° $M_0$6.68300×10^{16}
NEIC Event type fe. Felt at General Santos and Tupi.

(190) New Ireland region

ISC	**V**	**23 22 13 37.6–.67**	**4.57S–.08**	**153.72E–.10**	**95–4**	**4.3b**	**68**	**2-151**
IDC	V	23 22 13 36.8–.78	4.58S	153.78E	92–5	4.3,4.1		**¶16710750**
ISCJB	V	23 22 13 37.9–1.6	4.57S–.05	153.7E–.10	111–12	4.3b,4.1		
NEIC	V	23 22 13 38.8–1.2	4.57S	153.72E	106–9	4.5b,4.1		
DJA	V	23 22 13 41.9–2.9	5S–13	154E–17	121–21	5.8,5.5b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(221) Kuril Islands

ISC	**V**	**23 22 52 12.5–.95**	**46.4N–.10**	**150.9E–.10**	**200**	**3.4b**	**35**	**2-79**
MOS	V	23 22 52 09.7–1.5	45.13N	152.16E	93	4.3b		**¶17204335**
SKHL	V	23 22 52 11.1–1.0	46.39N	151.04E	175–4	5.5s,4.6b		
ISCJB	V	23 22 52 12.7–.69	46.59N–.08	150.8E–.10	200	3.2b,4.6b		
IDC	V	23 22 52 14.5–3.8	46.84N	150.71E	192–38	3.7,3.3		

ISC Event type ke.
MOS Error ellipse: s-maj=22.6km s-min=18.0km az=174.5.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.8km az=43.1.
IDC Error ellipse: s-maj=29.9km s-min=25.6km az=118.0.

(7) Andreanof Islands

ISC	**V**	**24 17 43 23.9–.19**	**52.54N–.03**	**173.24W–.02**	**142–1**	**5.6b**	**2468**	**1-161**
BJI	V	24 17 43 23.1	52.66N	173.49W	143	5.9b,5.4b		**¶16538127**
ISCJB	V	24 17 43 23.6–.18	52.57N–.02	173.19W–.01	149–1	5.5b,5.4b		
MOS	V	24 17 43 23.4–.89	52.60N	173.23W	145	5.6b,4.0s		
GCMT	V	24 17 43 24.1–.10	52.49N	173.18W	142–0	5.5W,4.0s		
IDC	V	24 17 43 24.2–.35	52.59N	173.25W	140–2	5.4,5.1		
NEIC	V	24 17 43 24.1–.08	52.60N	173.26W	138	5.6b,5.5W		
NEIC	V	24 17 43 25.0–.00	52.61N	173.22W	150	5.6b,5.5W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.4km az=176.3.
MOS Error ellipse: s-maj=5.8km s-min=4.0km az=88.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c194; s124,c277;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.02 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.68±.03; $M_{r\theta}$1.70±.02; $M_{\theta\phi}$0.13±.03; $M_{\phi r}$1.21±.02; Best double couple: NP1:ϕ_s233.00000° ,δ90.00000°,λ-72.00000°. NP2:ϕ_s324.00000°,δ18.00000°,λ-180.00000°. Principal axes: T 2.1400,Plg42.0000°,Azm306.0000°; N 0.1030,Plg18.0000°,Azm53.0000° ; P -2.2430,Plg42.0000°,Azm160.0000° $M_0$2.19200×10^{17}
IDC Error ellipse: s-maj=8.6km s-min=5.8km az=170.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.4km az=169.0. Felt at Atka. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11 $M_{\theta\theta}$-0.88 $M_{\phi\phi}$1.00 $M_{r\theta}$1.84 $M_{\theta\phi}$0.33 $M_{\phi r}$1.36 Best double couple: NP1:ϕ_s326.00000°,δ24.00000°,λ-176.00000°. NP2: ϕ_s233.00000°,δ89.00000°,λ-67.00000°. Principal axes: T 2.5000,Plg39.0000°,Azm302.0000° ; N 0.0000,Plg23.0000°,Azm52.0000°; P -2.5000,Plg42.0000°,Azm165.0000° $M_0$2.50000×10^{17}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.20 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$0.30 $M_{r\theta}$1.80 $M_{\theta\phi}$0.20 $M_{\phi r}$1.10 Best double couple: NP1:ϕ_s58.00000°,δ88.00000° ,λ78.00000°. NP2:ϕ_s319.00000°,δ12.00000°,λ171.00000°. Principal axes: T 2.2000,Plg45.0000°,Azm316.0000°; N 0.0000,Plg11.0000°,Azm58.0000° ; P -2.1000,Plg41.0000°,Azm159.0000° $M_0$2.00000×10^{17}

(221) Kuril Islands

ISC	**V**	**26 20 23 15.5–.73**	**46.13N–.09**	**152.05E–.08**	**100**	**3.6b**	**78**	**3-79**
NIED	V	26 20 23 00	46.40N	151.90E	56	3.8W		**¶16560151**
JMA	V	26 20 23 13.8–.70	46.41N	151.88E	30	4.2		
MOS	V	26 20 23 13.6–1.3	46.32N	152.06E	80	4.1b		
SKHL	V	26 20 23 14.8–.40	46.28N	152.00E	89–5	5.7s,4.9b		
ISCJB	V	26 20 23 15.3–.57	46.12N–.07	151.95E–.08	100	3.8b,4.9b		
IDC	V	26 20 23 17.2–2.7	46.52N	151.93E	92–22	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ17.00000°,λ-18.00000°. NP2:ϕ_s30.00000°,δ85.00000°,λ-106.00000°. $M_0$6.50000×10^{14}
JMA Error ellipse: s-maj=10.0km s-min=9.2km az=-1.0.
MOS Error ellipse: s-maj=13.1km s-min=9.5km az=50.7.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=4.7km az=143.7.
IDC Error ellipse: s-maj=33.2km s-min=16.0km az=151.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**V**	**27 05 39 30.3–.34**	**1.50N–.03**	**123.97E–.03**	**284–3**	**5.0b**	**539**	**1-170**
BJI	V	27 05 39 25.2	0.96N	124.07E	285	4.7b,4.6b		**¶16549383**
ISCJB	V	27 05 39 29.5–.21	1.53N–.02	123.97E–.02	290–2	4.9b,4.6b		
DJA	V	27 05 39 30.8–.20	1N–3.0	124E–2.0	263–2	5.5b,5.3		
GCMT	V	27 05 39 30.6–.30	1.54N	124.01E	268–2	5.1W,5.3		
MOS	V	27 05 39 30.0–.98	1.61N	123.90E	298	5.0b,5.3		
NEIC	V	27 05 39 30.6–.43	1.55N	123.90E	286–4	5.1b,5.3		
IDC	V	27 05 39 31.1–.65	1.59N	123.94E	291–6	5.1,4.5		
KLM	V	27 05 39 33.4	1.45N	123.75E	289	6.1s,5.3b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.6km az=150.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c43; s67,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.08±.21 $M_{\theta\theta}$0.74±.22; $M_{\phi\phi}$-0.65±.24; $M_{r\theta}$-0.49±.21; $M_{\theta\phi}$3.24±.14; $M_{\phi r}$-5.05±.21; Best double couple: NP1:ϕ_s6.00000°,δ90.00000° ,λ-123.00000°. NP2:ϕ_s275.00000°,δ33.00000°,λ-1.00000°. Principal axes: T 6.0380,Plg36.0000°,Azm125.0000°; N 0.0460,Plg33.0000°,Azm7.0000° ; P -6.0830,Plg37.0000°,Azm247.0000° $M_0$6.06000×10^{16}
MOS Error ellipse: s-maj=10.9km s-min=5.2km az=120.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=58.0.
IDC Error ellipse: s-maj=9.4km s-min=6.6km az=69.0.

(280) Banda Sea

ISC	**V**	**27 12 35 59.3–.79**	**7.53S–.06**	**128.74E–.07**	**131**	**3.7b**	**16**	**3-72**
IDC	V	27 12 35 54.5–9.5	7.28S	129.01E	75–95	4.3L,4.1		**¶17204569**
ISCJB	V	27 12 35 58.0–.49	7.57S–.04	128.77E–.05	131	3.6b,4.1		
DJA	V	27 12 35 59.7–.40	8S–4.0	129E–6.0	140–17	5.7b,5.2		

ISC Event type ke.
ISCJB Event type ke.

(259) Mindanao

ISC	**V**	**27 14 19 25.0–.49**	**5.93N–.03**	**126.19E–.04**	**71–4**	**4.8b**	**514**	**1-163**

MOS	V	27 14 19 19.5–1.2	5.97N	126.09E	40	5.1b	¶16553941
MAN	V	27 14 19 21	5.86N	126.30E	68	5.6b,5.0s	
ISCJB	V	27 14 19 23.4–.35	5.96N–.02	126.25E–.03	74–3	4.8b,5.0s	
GCMT	V	27 14 19 24.8–.20	5.94N	126.31E	48–1	5.1W,5.0s	
KLM	V	27 14 19 25.0	6.16N	126.24E	68	5.7s,5.0b	
NEIC	V	27 14 19 24.8–.92	5.98N	126.12E	73–8	5.0b,5.0b	
IDC	V	27 14 19 25.4–.97	5.92N	126.08E	74–7	4.7,4.5	
DJA	V	27 14 19 25.4–.40	6N–3.0	126E–3.0	53–3	5.9,5.5	

ISC Event type fe.

MAN Event type fe. INTENSITY III - MALITA DAVAO DEL SUR; INTENSITY II - GENERAL SANTOS CITY; KIDAPAWAN CITY.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c87; s75,c116;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.17±.14 $M_{\theta\theta}$0.43±.10; $M_{\phi\phi}$-4.60±.11; $M_{r\theta}$1.75±.09; $M_{\theta\phi}$-0.91±.10; $M_{\phi r}$0.52±.13; Best double couple: NP1:ϕ_s30.00000°,δ54.00000°,λ116.00000°. NP2:ϕ_s170.00000°,δ43.00000°,λ59.00000°. Principal axes: T 4.8630,Plg69.0000°,Azm357.0000°; N -0.0310,Plg21.0000°,Azm194.0000° ; P -4.8350,Plg5.0000°,Azm102.0000° $M_0$4.84900×10^{16}

NEIC Event type fe. Felt [II PIVS] at General Santos and Kidapawan.

(202) New Guinea

ISC	**V**	**27 18 47 22.3–.31**	**4.40S–.03**	**144.07E–.04**	**135–2**	**4.9b**	**443 4-150**
BJI	V	27 18 47 17.8	4.60S	144.55E	139	5.1b,4.9b	¶16551200
MOS	V	27 18 47 20.6–.89	4.33S	144.02E	129	4.9b,4.9b	
ISCJB	V	27 18 47 21.3–.55	4.34S–.02	144.05E–.03	135–5	4.9b,4.9b	
NEIC	V	27 18 47 22.9–.13	4.35S	143.99E	138	5.0b,4.9b	
IDC	V	27 18 47 22.7–.58	4.46S	144.00E	138–5	4.9,4.6	
GCMT	V	27 18 47 22.9–.10	4.45S	144.03E	139–0	5.3W,4.6	
DJA	V	27 18 47 24.8–.40	4S–3.0	144E–3.0	138–4	5.7b,5.6	

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c157; s123,c220;Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.68±.02 $M_{\theta\theta}$0.06±.02; $M_{\phi\phi}$-0.73±.02; $M_{r\theta}$-0.31±.01; $M_{\theta\phi}$-0.14±.02; $M_{\phi r}$0.94±.01; Best double couple: NP1:ϕ_s348.00000°,δ73.00000°,λ75.00000°. NP2:ϕ_s210.00000° ,δ22.00000°,λ130.00000°. Principal axes: T 1.2480,Plg59.0000°,Azm237.0000° ; N -0.0400,Plg14.0000°,Azm352.0000°; P -1.2080,Plg27.0000°,Azm89.0000° $M_0$1.22800×10^{17}

(263) Talaud Islands

ISC	**V**	**28 20 17 11.6–.34**	**4.70N–.03**	**127.69E–.03**	**73–2**	**5.4b**	**841 2-171**
MOS	V	28 20 17 06.6–1.0	4.73N	127.61E	38	5.6b,4.4s	¶16551391
BJI	V	28 20 17 06.9	4.34N	127.82E	69	5.4b,5.3b	
ISCJB	V	28 20 17 11.6–.32	4.73N–.01	127.70E–.02	85–2	5.3b,5.3b	
KLM	V	28 20 17 12.8	4.66N	127.74E	84	6.5s,5.7b	
NEIC	V	28 20 17 13.0–.45	4.69N	127.67E	85–4	5.4W,5.4b	
MAN	V	28 20 17 12	4.86N	127.72E	71	5.9b,5.5s	
IDC	V	28 20 17 13.4–1.1	4.66N	127.67E	89–9	5.2,4.9	
GCMT	V	28 20 17 13.0–.10	4.81N	127.56E	75–1	5.5W,4.9	
DJA	V	28 20 17 14.7–.40	5N–3.0	128E–3.0	93–4	6.3,5.9b	

ISC Event type se.

ISCJB Event type se.

NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}0.62 $M_{\theta\theta}$0.33 $M_{\phi\phi}$-0.95 $M_{r\theta}$-0.88 $M_{\theta\phi}$-0.36 $M_{\phi r}$-1.00 Best double couple: NP1:ϕ_s220.00000° ,δ76.00000°,λ110.00000°. NP2:ϕ_s342.00000°,δ24.00000°,λ35.00000°. Principal axes: T 1.5000,Plg54.0000°,Azm154.0000°; N 0.2000,Plg20.0000°,Azm35.0000° ; P -1.7000,Plg29.0000°,Azm294.0000° $M_0$1.60000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s100,c166; s104,c186;Duration: 1ŝ4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.02 $M_{\theta\theta}$2.01±.03; $M_{\phi\phi}$-2.06±.03; $M_{r\theta}$-0.61±.02; $M_{\theta\phi}$-0.46±.03; $M_{\phi r}$-0.47±.02; Best double couple: NP1:ϕ_s231.00000°,δ89.00000°,λ160.00000°. NP2:ϕ_s321.00000° ,δ70.00000°,λ1.00000°. Principal axes: T 2.2060,Plg15.0000°,Azm184.0000° ; N 0.0370,Plg70.0000°,Azm49.0000°; P -2.2380,Plg13.0000°,Azm278.0000° $M_0$2.22200×10^{17}

(263) Talaud Islands

ISC	**V**	**29 01 11 53.0–.54**	**2.83N–.05**	**125.90E–.07**	**100**	**4.3b**	**39 1-122**
ISCJB	V	29 01 11 51.8–.40	3.00N–.04	125.86E–.06	100	4.2b	¶603241719
IDC	V	29 01 11 54.6–9.3	2.82N	125.34E	119–87	4.3,4.1	
NEIC	V	29 01 11 57.8–1.2	2.85N	125.70E	150–13	4.2b,4.1	
DJA	V	29 01 11 58.1–.30	3N–3.0	126E–4.0	41–16	5.8b,5.3	

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

(192) New Britain region

ISC	**V**	**29 07 33 11.7–.36**	**5.85S–.03**	**149.34E–.04**	**106–2**	**5.2b**	**403 3-154**
BJI	V	29 07 33 07.8	6.24S	149.62E	115	5.3b,5.1b	¶16551463
ISCJB	V	29 07 33 11.7–.68	5.82S–.02	149.26E–.03	118–6	5.2b,5.1b	
IDC	V	29 07 33 11.8–.49	5.86S	149.27E	102–3	5.2,5.0	
MOS	V	29 07 33 14.1–1.3	5.83S	149.15E	135	5.0b,5.0	
NEIC	V	29 07 33 16.2–1.6	5.85S	149.31E	146–15	5.3b,5.0	
GCMT	V	29 07 33 16.2–.20	5.92S	149.33E	106–2	5.2W,5.0	
DJA	V	29 07 33 17.2–1.0	6S–4.0	149E–6.0	145–10	5.8b,5.4b	

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c92; s97,c149;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.69±.18 $M_{\theta\theta}$3.79±.20; $M_{\phi\phi}$-1.10±.21; $M_{r\theta}$-4.81±.11; $M_{\theta\phi}$0.71±.18; $M_{\phi r}$-2.89±.11; Best double couple: NP1:ϕ_s61.00000°,δ76.00000°,λ-105.00000°. NP2:ϕ_s289.00000°,δ20.00000°,λ-43.00000°. Principal axes: T 6.8700,Plg30.0000°,Azm163.0000°; N -0.6060,Plg15.0000°,Azm65.0000° ; P -6.2640,Plg56.0000°,Azm312.0000° $M_0$6.56700×10^{16}

(210) South of Mariana Islands

ISC	**VI**	**05 00 16 48.5–.39**	**12.60N–.03**	**144.36E–.04**	**69–3**	**5.1b**	**447 1-168**
BJI	VI	05 00 16 42.3	12.47N	144.69E	46	5.1b,5.0b	¶16557185
ISCJB	VI	05 00 16 45.0–.78	12.63N–.03	144.32E–.03	47–7	5.1b,3.8s	
GCMT	VI	05 00 16 48.4–.20	12.39N	144.18E	86–2	5.0W,3.8s	
MOS	VI	05 00 16 48.2–.88	12.61N	144.41E	89	5.1b,3.8s	
NEIC	VI	05 00 16 48.4–.84	12.62N	144.29E	66–7	5.2b,3.8s	
IDC	VI	05 00 16 49.4–.83	12.62N	144.24E	76–7	4.9,4.7	
DJA	VI	05 00 16 51.8–.50	13N–7.0	145E–6.0	113–6	5.7b,5.2	

ISC Event type fe.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c72; s80,c125;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.36±.17 $M_{\theta\theta}$1.74±.17; $M_{\phi\phi}$0.61±.19; $M_{r\theta}$3.50±.09; $M_{\theta\phi}$1.84±.15; $M_{\phi r}$1.18±.12; Best double couple: NP1: ϕ_s249.00000°,δ73.00000°,λ-78.00000°. NP2:ϕ_s33.00000°,δ21.00000°,λ-124.00000°. Principal axes: T 4.8680,Plg27.0000°,Azm329.0000°; N -0.5020,Plg12.0000°,Azm65.0000° ; P -4.3690,Plg61.0000°,Azm177.0000° $M_0$4.61800×10^{16}

NEIC Event type fe. Felt [II] at Dededo and Tamuning. Also felt at Apra Harbor, Hagatna Heights, Mangilao, Merizo and Yona.

(277) Jawa

ISC	**VI**	**05 07 42 20.4–1.0**	**7.91S–.10**	**107.26E–.06**	**67–8**	**4.0b**	**139 1-152**
IDC	VI	05 07 42 12.0–.60	7.70S	107.25E	0	4.1,4.1	¶16856368
NEIC	VI	05 07 42 16.8–.48	8.02S	106.97E	35	4.0b,4.1	
DJA	VI	05 07 42 19.1–.60	8S–4.0	107E–2.0	21–6	5.6b,5.1	
ISCJB	VI	05 07 42 20.2–.58	7.84S–.09	107.30E–.04	81–5	3.9b,5.1	

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

(263) Talaud Islands

ISC	**VI**	**05 07 46 28.3–.75**	**3.27N–.04**	**126.64E–.05**	**68–6**	**4.7b**	**215 1-161**
BJI	VI	05 07 46 20.0	2.94N	126.77E	40	4.8b,4.8b	¶16557339
IDC	VI	05 07 46 26.8–1.8	3.17N	126.52E	56–15	4.6,4.4	
ISCJB	VI	05 07 46 27.1–.45	3.30N–.02	126.71E–.03	74–4	4.6b,4.4	
NEIC	VI	05 07 46 28.3–.71	3.24N	126.70E	73–6	4.7b,4.4	
DJA	VI	05 07 46 29.7–.70	3N–5.0	127E–5.0	83–7	5.2b,5.0	
KLM	VI	05 07 46 31.6	3.50N	126.58E	68	5.8s,4.8b	

ISC Event type fe.

IDC Error ellipse: s-maj=16.3km s-min=7.6km az=80.0.

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.2km az=167.7.

NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.6km az=66.0. Felt at Bitung.

(221) Kuril Islands

ISC	**VI**	**07 02 57 29.0–.63**	**45.39N–.06**	**148.82E–.07**	**130–5**	**3.5b**	**79 1-115**
ISCJB	VI	07 02 57 28.3–.64	45.37N–.05	148.77E–.09	138–6	3.6b	¶17205445
SKHL	VI	07 02 57 28.8–.50	45.27N	148.88E	143–7	5.5s,4.9b	
MOS	VI	07 02 57 28.4–1.2	45.43N	148.74E	138	4.2b,4.9b	
IDC	VI	07 02 57 29.3–.81	45.48N	148.83E	131–8	3.9,3.6	
JMA	VI	07 02 57 31.3–.60	45.04N	148.76E	137	3.9,3.6	

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.0km az=21.6.

MOS Error ellipse: s-maj=14.9km s-min=11.3km az=69.0.

IDC Error ellipse: s-maj=27.0km s-min=10.9km az=153.0.

JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.

(69) Near coast of Chiapas

ISC	**VI**	**07 14 55 19.6–.29**	**15.25N–.04**	**93.35W–.03**	**80–2**	**5.3b**	**1320 0-152**
ISCJB	VI	07 14 55 18.8–.14	15.41N–.02	93.18W–.02	77	5.2b	¶16570218
MOS	VI	07 14 55 19.3–.97	15.49N	93.03W	76	5.5b,4.4s	
GCMT	VI	07 14 55 20.1–.10	15.31N	93.41W	76–1	5.4W,4.4s	
BJI	VI	07 14 55 20.1	15.40N	93.10W	76	5.2s,5.1b	
IDC	VI	07 14 55 20.2–.47	15.48N	92.90W	73–4	5.1,4.9	
NEIC	VI	07 14 55 20.1–.17	15.36N	93.08W	76	5.5W,5.4b	
MEX	VI	07 14 55 20.2–1.0	15.11N	93.49W	68–16	5.2,5.4b	

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=41.1.

MOS Error ellipse: s-maj=7.7km s-min=3.9km az=106.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s103,c179; s114,c207; Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.54±.02 $M_{\theta\theta}$0.36±.02; $M_{\phi\phi}$0.18±.02; $M_{r\theta}$0.93±.01; $M_{\theta\phi}$-0.38±.02; $M_{\phi r}$-0.73±.01; Best double couple: NP1:ϕ_s308.00000°,δ77.00000° ,λ-90.00000°. NP2:ϕ_s129.00000°,δ13.00000°,λ-89.00000°. Principal axes: T 1.3880,Plg32.0000°,Azm39.0000°; N -0.1200,Plg0.0000°,Azm308.0000° ; P -1.2690,Plg58.0000°,Azm218.0000° $M_0$1.32900×10^{17}

IDC Error ellipse: s-maj=15.6km s-min=8.3km az=54.0.

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=35.0. Felt [II] at Guatemala and Quetzaltenango, Guatemala. Also felt at Huehuetenango, Panajachel, San Antonio Huista and San Marcos La Laguna. Felt at Cayo, Belize and at Villahermosa, Mexico. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.55 $M_{\theta\theta}$0.89 $M_{\phi\phi}$0.65 $M_{r\theta}$0.26 $M_{\theta\phi}$-1.52 $M_{\phi r}$-0.15 Best double couple: NP1:ϕ_s308.00000°,δ49.00000°,λ-96.00000°. NP2: ϕ_s138.00000°,δ41.00000°,λ-83.00000°. Principal axes: T 2.3200,Plg4.0000°,Azm43.0000° ; N -0.7500,Plg5.0000°,Azm312.0000°; P -1.5700,Plg84.0000°,Azm176.0000° $M_0$2.00000×10^{17} Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000° ,δ81.00000°,λ-83.00000°. NP2:ϕ_s78.00000°,δ11.00000°,λ-129.00000°. Principal axes: T 1.0600,Plg36.0000°,Azm21.0000°; N 0.0300,Plg7.0000°,Azm116.0000° ; P -1.0800,Plg53.0000°,Azm216.0000°

MEX Error ellipse: s-maj=11.7km s-min=7.5km az=-1.0.

(118) Peru-Bolivia border region

ISC	**VI**	**08 03 06 21.8–.22**	**17.21S–.03**	**69.69W–.03**	**141–1**	**5.8b**	**1872 1-178**
BJI	VI	08 03 06 18.9	17.10S	69.65W	100	5.6b	¶16575907
ISCJB	VI	08 03 06 21.6–.12	16.94S–.02	69.64W–.02	147	5.7b	
NEIC	VI	08 03 06 22.6–.14	17.08S	69.52W	146	5.9W,5.9W	
IDC	VI	08 03 06 22.8–.33	17.08S	69.78W	144–2	5.7,5.4	
GCMT	VI	08 03 06 22.6–.10	17.37S	69.84W	150–0	5.9W,5.4	
GUC	VI	08 03 06 22.2–.31	17.53S	70.00W	146–2	6.2L,5.4	
NEIC	VI	08 03 06 23.0–.00	17.08S	69.52W	146	6.2L,5.4	
SCB	VI	08 03 06 24.7–.43	17.15S	68.88W	150	5.6L,5.4	
MOS	VI	08 03 06 24.0–.93	16.74S	69.67W	139	6.0b,5.4	

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=38.7.

NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=63.0. Felt [III] at Tacna and Tarata. Also felt at Arequipa, Ilo, Juliaca, Moquegua and Puno. Felt [II] at La Paz, Bolivia. Also felt at Cochabamba and El Alto. Felt [IV] at Codpa, Cuya and Poconchile; [III] at Arica, Camina, Pisagua and Putre; [II] at Alto Hospicio, Huara, Iquique and Pozo Almonte, Chile. Also felt at Antofagasta. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17} Nm; M_{rr}-2.79 $M_{\theta\theta}$-3.94 $M_{\phi\phi}$6.73 $M_{r\theta}$2.31 $M_{\theta\phi}$2.65 $M_{\phi r}$-4.52 Best double couple: NP1: ϕ_s337.00000°,δ77.00000°,λ-134.00000°. NP2:ϕ_s234.00000°,δ45.00000°,λ-18.00000°. Principal axes: T 8.7500,Plg20.0000°,Azm98.0000°; N -1.2600,Plg43.0000°,Azm349.0000° ; P -7.4900,Plg41.0000°,Azm206.0000° $M_0$8.20000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s237.00000°,δ30.00000°,λ-4.00000°. NP2: ϕ_s330.00000°,δ88.00000°,λ-120.00000°. Principal axes: T Plg36.0000°,Azm86.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm213.0000°

IDC Error ellipse: s-maj=9.2km s-min=7.2km az=153.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c272; s137,c406;Duration: 2ŝ3 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.40±.01 $M_{\theta\theta}$-0.32±.01; $M_{\phi\phi}$0.72±.01; $M_{r\theta}$0.56±.01; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$-0.55±.01; Best double couple: NP1: ϕ_s321.00000°,δ76.00000°,λ-119.00000°. NP2:ϕ_s208.00000°,δ32.00000°,λ-27.00000°. Principal axes: T 1.0300,Plg25.0000°,Azm73.0000°; N -0.0400,Plg28.0000°,Azm329.0000° ; P -0.9890,Plg50.0000°,Azm198.0000° $M_0$1.01000×10^{18}

GUC Error ellipse: s-maj=2.4km s-min=3.0km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.13 $M_{\theta\theta}$-4.43 $M_{\phi\phi}$8.57 $M_{r\theta}$3.37 $M_{\theta\phi}$-0.60 $M_{\phi r}$-4.69 Best double couple: NP1:ϕ_s326.00000° ,δ73.00000°,λ-127.00000°. NP2:ϕ_s215.00000°,δ40.00000°,λ-26.00000°. Principal axes: T 10.3000,Plg19.0000°,Azm83.0000°; N -2.1000,Plg35.0000°,Azm338.0000° ; P -8.2000,Plg48.0000°,Azm196.0000° $M_0$9.40000×10^{17}

SCB Event type ke. Error ellipse: s-maj=15.0km s-min=5.3km az=81.0.

MOS Error ellipse: s-maj=22.3km s-min=7.8km az=55.1.

(277) Jawa

ISC	**VI**	**09 17 50 22.1–.63**	**8.81S–.07**	**113.81E–.04**	**95–5**	**4.0b**	**45 0-155**
ISCJB	VI	09 17 50 21.3–.45	8.85S–.07	113.75E–.04	101–5	4.0b	¶16856794
NEIC	VI	09 17 50 21.7–.90	8.75S	113.74E	98–9	4.2b	
DJA	VI	09 17 50 23.4–.30	9S–4.0	114E–2.0	53–5	5.5b,5.0	
IDC	VI	09 17 50 23.1–1.4	8.68S	113.84E	107–11	4.3,4.0	

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=5.9km az=14.2.

NEIC Event type se. Error ellipse: s-maj=16.9km s-min=11.2km az=217.0.

IDC Error ellipse: s-maj=31.6km s-min=13.8km az=63.0.

(277) Jawa

ISC	**VI**	**13 03 17 00.5–.54**	**8.89S–.08**	**112.46E–.05**	**71**	**4.2b**	**52 1-155**
IDC	VI	13 03 16 51.3–.69	8.50S	112.44E	0	4.3,4.2	¶16684526
ISCJB	VI	13 03 17 00.0–.41	8.94S–.06	112.44E–.03	71	4.1b,4.2	
NEIC	VI	13 03 17 00.9–.74	8.72S	112.46E	76–7	4.2b,4.2	
DJA	VI	13 03 17 02.7–.70	9S–5.0	112E–2.0	37–7	6.2b,5.8	

ISC Event type fe.

ISCJB Event type fe.

NEIC Event type fe. Felt [III] at Blitar and [II] at Karangkates and Tulungagung.

(266) Northern Molucca Sea

ISC	**VI**	**13 14 31 23.4–.29**	**2.55N–.02**	**126.46E–.03**	**66–2**	**6.4b**	**2419 1-173**
KLM	VI	13 14 31 16.1	2.25N	127.37E	60	6.9s,6.5b	¶602897626
BJI	VI	13 14 31 20.1	2.45N	126.50E	42	6.6b,6.3b	
NEIC	VI	13 14 31 21.0–.00	2.53N	126.75E	80	6.6b,6.3b	
MOS	VI	13 14 31 21.4–1.0	2.53N	126.45E	58	6.5b,5.7s	
ISCJB	VI	13 14 31 22.3–.25	2.47N–.01	126.48E–.02	71–2	6.3b,5.7s	
NEIC	VI	13 14 31 23.0–.52	2.52N	126.46E	61–4	7.0,6.4b	
IDC	VI	13 14 31 23.4–1.1	2.45N	126.51E	67–8	6.1,5.8	
GCMT	VI	13 14 31 23.0–.10	2.74N	126.35E	82–0	6.4W,5.8	
DJA	VI	13 14 31 24.8–.20	2N–2.0	126E–1.0	81–2	6.8,6.8b	
NEIC	VI	13 14 31 36.6–.00	2.25N	126.68E	53	6.8,6.8b	

ISC Event type fe.

NEIC Event type se. Moment Tensor Solution. s54 Moment tensor: Scale 10^{18}Nm; M_{rr}0.58 $M_{\theta\theta}$2.21 $M_{\phi\phi}$-2.79 $M_{r\theta}$0.31 $M_{\theta\phi}$3.06 $M_{\phi r}$0.71 Best double couple: NP1:ϕ_s19.00000°,δ87.00000° ,λ168.00000°. NP2:ϕ_s110.00000°,δ78.00000°,λ3.00000°. Principal axes: T 3.7700,Plg10.0000°,Azm333.0000°; N 0.5300,Plg77.0000°,Azm184.0000° ; P -4.2900,Plg6.0000°,Azm65.0000° $M_0$4.10000×10^{18}

MOS Error ellipse: s-maj=6.7km s-min=3.8km az=112.6.

ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=160.6.

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=75.0. Felt [V] at Manado; [IV] on Pulau Ternate and at Tahuna; [III] at Bitung and Melonguanne, Indonesia. Felt at Zamboanga, Philippines. Complex event observed on broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}1.50 $M_{\theta\theta}$2.17 $M_{\phi\phi}$-3.66 $M_{r\theta}$-0.05 $M_{\theta\phi}$2.10 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s207.00000°,δ90.00000°,λ-175.00000°. NP2:ϕ_s117.00000° ,δ85.00000°,λ0.00000°. Principal axes: T 2.8500,Plg3.0000°,Azm342.0000° ; N 1.5200,Plg85.0000°,Azm212.0000°; P -4.3600,Plg4.0000°,Azm72.0000°

$M_0$3.80000×10^{18}
IDC Error ellipse: s-maj=9.3km s-min=5.8km az=70.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c342; s135,c500;Duration: 3s9 Moment tensor: Scale 10^{18} Nm; M_{rr}0.63±.02 $M_{\theta\theta}$2.91±.02; $M_{\phi\phi}$-3.54±.03; $M_{r\theta}$0.88±.02; $M_{\theta\phi}$3.68±.02; $M_{\phi r}$0.14±.02; Best double couple: NP1:ϕ_s111.00000°,δ83.00000°,λ10.00000°. NP2:ϕ_s20.00000°,δ80.00000°,λ173.00000°. Principal axes: T 4.7590,Plg12.0000°,Azm336.0000° ; N 0.4610,Plg78.0000°,Azm145.0000°; P -5.2170,Plg2.0000°,Azm245.0000° $M_0$4.98800×10^{18}
NEIC Event type se. Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}0.37 $M_{\theta\theta}$3.19 $M_{\phi\phi}$-3.56 $M_{r\theta}$0.74 $M_{\theta\phi}$3.23 $M_{\phi r}$0.85 Best double couple: NP1:ϕ_s114.00000° ,δ77.00000°,λ5.00000°. NP2:ϕ_s22.00000°,δ85.00000°,λ167.00000°. Principal axes: T 4.7200,Plg13.0000°,Azm337.0000°; N 0.1900,Plg76.0000°,Azm182.0000° ; P -4.9000,Plg6.0000°,Azm69.0000° $M_0$4.80000×10^{18}

(277) Jawa

ISC	**VI**	**13 15 46 35.2–.36**	**8.18S–.05**	**110.68E–.04**	**150**	**4.6b**	**156**	**0-146**
BJI	VI	13 15 46 33.6	8.10S	110.70E	152	4.9b,4.6b		**¶16593463**
ISCJB	VI	13 15 46 34.0–.22	8.03S–.04	110.74E–.03	150	4.5b,4.6b		
MOS	VI	13 15 46 34.3–.77	7.90S	110.80E	154	4.8b,4.6b		
KLM	VI	13 15 46 34.5	8.43S	110.88E	169	6.4s,4.6b		
NEIC	VI	13 15 46 35.6–.42	8.04S	110.73E	152–3	4.7b,4.6b		
IDC	VI	13 15 46 36.1–5.9	7.94S	110.80E	154–55	4.6,4.3		
DJA	VI	13 15 46 37.3–.20	8S–4.0	111E–2.0	125–2	5.7b,5.2		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bantul, Gunungkidul, Pacitan and Yogyakarta.

(224) Hokkaido region

ISC	**VI**	**14 12 48 54.0–.42**	**43.14N–.03**	**145.29E–.03**	**70–3**	**5.2b**	**1416**	**0-155**
NIED	VI	14 12 48 00	43.10N	145.40E	80	5.0W		**¶603244146**
IDC	VI	14 12 48 52.7–1.6	43.24N	145.34E	55–14	5.1,4.9		
BJI	VI	14 12 48 52.8	43.22N	145.29E	74	5.1b,5.0b		
NEIC	VI	14 12 48 53.2–.38	43.22N	145.24E	56–3	5.3b,5.0b		
GCMT	VI	14 12 48 53.2–.30	43.21N	145.24E	82–2	5.0W,5.0b		
ISCJB	VI	14 12 48 53.8–.20	43.13N–.02	145.28E–.02	79–1	5.1b,5.0b		
JMA	VI	14 12 48 54.9–.10	43.12N	145.36E	73–1	5.1,5.0b		
MOS	VI	14 12 48 54.0–.87	43.22N	145.24E	79	5.5b,5.0b		
SKHL	VI	14 12 48 55.7–.90	43.19N	145.38E	91–7	5.6s,5.6b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ50.00000°,λ137.00000°. NP2:ϕ_s157.00000°,δ59.00000°,λ49.00000°. $M_0$3.62000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.3km az=155.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=160.0. Felt at Obihiro and Sapporo. Also felt at Misawa, Honshu. Felt [III] at Shakotan and Yuzhno-Kuril'sk, Kuril Islands. Recorded [4 JMA] in eastern Hokkaido.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c57; s78,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.12 $M_{\theta\theta}$2.22±.12; $M_{\phi\phi}$-4.03±.11; $M_{r\theta}$1.46±.08; $M_{\theta\phi}$-0.53±.10; $M_{\phi r}$-1.15±.09; Best double couple: NP1:ϕ_s149.00000°,δ70.00000° ,λ40.00000°. NP2:ϕ_s43.00000°,δ53.00000°,λ154.00000°. Principal axes: T 3.6650,Plg42.0000°,Azm12.0000°; N 0.5930,Plg46.0000°,Azm172.0000° ; P -4.2590,Plg10.0000°,Azm272.0000° $M_0$3.96200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=164.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ48.00000°,λ65.00000°. NP2: ϕ_s216.00000°,δ48.00000°,λ115.00000°. Principal axes: T Plg72.0000°,Azm199.0000° ; N Plg18.0000°,Azm19.0000°; P Plg0.0000°,Azm109.0000°
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=3.8km az=102.4. Felt (III) Yuzhno-Kuril'sk, Malokuril'skoye. Moment Tensor Solution.
SKHL Event type fe. Felt (III) at Yushno-Kurilsk (102 km).

(280) Banda Sea

ISC	**VI**	**15 09 59 04.9–.57**	**5.66S–.05**	**130.37E–.07**	**100**	**4.0b**	**29**	**1-152**
ISCJB	VI	15 09 59 04.3–.51	5.78S–.04	130.24E–.07	100	4.4b		**¶16730555**
NEIC	VI	15 09 59 05.9–1.4	5.59S	130.21E	118–13	4.6b		
IDC	VI	15 09 59 05.4–2.7	5.54S	130.08E	112–25	4.3,4.0		
DJA	VI	15 09 59 08.0–.40	5S–3.0	130E–4.0	124–7	5.8b,5.3		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(248) Philippine Islands region

ISC	**VI**	**16 12 43 54.4–.44**	**5.85N–.04**	**127.06E–.05**	**133–3**	**4.8b**	**308**	**1-147**
BJI	VI	16 12 43 50.2	5.43N	127.05E	135	5.0b,4.9b		**¶16614741**
KLM	VI	16 12 43 51.7	5.99N	127.47E	135	6.5s,4.9b		
ISCJB	VI	16 12 43 53.1–.42	5.82N–.03	127.00E–.04	135–3	4.8b,4.9b		
MAN	VI	16 12 43 54	8.93N	127.03E	118	4.9b,3.8L		
MOS	VI	16 12 43 54.1–.95	5.82N	126.93E	144	5.0b,3.8L		
IDC	VI	16 12 43 54.1–.87	5.79N	127.04E	130–7	4.7,4.5		
NEIC	VI	16 12 43 55.2–.62	5.80N	126.96E	140–6	4.9b,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=170.7.
MOS Error ellipse: s-maj=11.2km s-min=5.3km az=114.4.
IDC Error ellipse: s-maj=13.7km s-min=7.6km az=69.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.5km az=89.0.

(259) Mindanao

ISC	**VI**	**19 08 29 10.1–.47**	**6.60N–.04**	**126.92E–.05**	**110–3**	**4.6b**	**226**	**1-122**
IDC	VI	19 08 29 08.5–.62	6.59N	127.00E	99–4	4.6,4.3		**¶16632970**
MOS	VI	19 08 29 09.2–.85	6.63N	126.88E	115	4.8b,4.3		
ISCJB	VI	19 08 29 09.2–.48	6.59N–.03	126.93E–.04	118–3	4.5b,4.3		
NEIC	VI	19 08 29 11.4–.60	6.55N	126.86E	124–5	4.6b,4.3		
KLM	VI	19 08 29 12.8	7.00N	126.78E	140	5.9s,4.7b		
DJA	VI	19 08 29 17.6–1.2	6N–5.0	126E–12	91–6	6.0b,5.6		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(153) South Sandwich Islands region

ISC	**VI**	**19 08 37 45.6–.40**	**56.07S–.05**	**27.53W–.05**	**128–3**	**5.4b**	**688**	**5-176**
BJI	VI	19 08 37 44.1	56.00S	27.40W	120	5.2b		**¶16632971**
NEIC	VI	19 08 37 44.7–.11	56.05S	27.42W	119	5.5b		
ISCJB	VI	19 08 37 44.3–1.4	56.04S–.05	27.64W–.09	126–12	5.4b		
GCMT	VI	19 08 37 44.7–.10	56.16S	27.21W	133–1	5.2W		
MOS	VI	19 08 37 44.4–.98	56.07S	27.60W	123	5.2b		
IDC	VI	19 08 37 45.5–.46	56.12S	27.58W	126–3	5.3,5.0		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.6km az=219.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.3km az=137.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c111; s112,c164; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.89±.01 $M_{\theta\theta}$-0.55±.02; $M_{\phi\phi}$-0.33±.02; $M_{r\theta}$-0.24±.02; $M_{\theta\phi}$0.34±.02; $M_{\phi r}$0.15±.02; Best double couple: NP1:ϕ_s305.00000°,δ54.00000° ,λ89.00000°. NP2:ϕ_s127.00000°,δ36.00000°,λ91.00000°. Principal axes: T 0.9360,Plg81.0000°,Azm211.0000°; N -0.0930,Plg1.0000°,Azm306.0000° ; P -0.8420,Plg9.0000°,Azm36.0000° $M_0$0.88900×10^{17}
MOS Error ellipse: s-maj=20.1km s-min=10.9km az=98.5.
IDC Error ellipse: s-maj=11.2km s-min=10.3km az=38.0.

(124) Chile-Bolivia border region

ISC	**VI**	**20 16 36 00.9–.18**	**21.77S–.02**	**68.38W–.03**	**126–1**	**6.0b**	**2279**	**1-178**
SJA	VI	20 16 35 53.9–.99	21.59S	68.47W	226–46	6.1L		**¶16638810**
SCB	VI	20 16 35 55.6–.57	21.88S	68.25W	117	5.8L		
ISCJB	VI	20 16 35 57.8–.24	21.71S–.02	68.40W–.02	112–2	6.0b		
BJI	VI	20 16 35 57.5	21.80S	68.30W	100	6.3b		
GUC	VI	20 16 35 59.0–.71	21.87S	68.67W	129–6	6.4L		
MOS	VI	20 16 36 00.7–1.2	21.61S	68.50W	129	6.0b,5.8s		
GCMT	VI	20 16 36 01.2–.10	21.89S	68.63W	131–0	6.5W,5.8s		
IDC	VI	20 16 36 01.4–.25	21.67S	68.27W	126–1	5.9,5.6		
NEIC	VI	20 16 36 01.0–.00	21.70S	68.23W	128	5.9,5.6		
NEIC	VI	20 16 36 01.2–.11	21.70S	68.23W	128	6.5W,6.4W		
CASC	VI	20 16 36 03.0–2.5	21.70S	68.23W	128	6.0b,6.4W		

ISC Event type fe.
SJA Error ellipse: s-maj=12.2km s-min=23.9km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=15.6km s-min=4.3km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=41.8.
GUC Error ellipse: s-maj=2.6km s-min=7.4km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=5.5km az=101.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c350; s136,c502;Duration: 4s5 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.30±.04 $M_{\theta\theta}$-0.35±.04; $M_{\phi\phi}$0.65±.05; $M_{r\theta}$-0.02±.03; $M_{\theta\phi}$1.50±.04; $M_{\phi r}$-7.58±.03; Best double couple: NP1:ϕ_s360.00000°,δ88.00000°,λ-101.00000°. NP2:ϕ_s261.00000° ,δ11.00000°,λ-9.00000°. Principal axes: T 7.9220,Plg42.0000°,Azm100.0000° ; N -0.3600,Plg11.0000°,Azm0.0000°; P -7.5610,Plg46.0000°,Azm258.0000° $M_0$7.74200×10^{18}
IDC Error ellipse: s-maj=7.8km s-min=5.7km az=78.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.20 $M_{\theta\theta}$-0.37 $M_{\phi\phi}$0.57 $M_{r\theta}$-0.59 $M_{\theta\phi}$0.37 $M_{\phi r}$-5.22 Best double couple: NP1:ϕ_s6.00000° ,δ88.00000°,λ-92.00000°. NP2:ϕ_s238.00000°,δ4.00000°,λ-38.00000°. Principal axes: T 5.5000,Plg42.0000°,Azm98.0000°; N -0.4400,Plg2.0000°,Azm6.0000° ; P -5.0600,Plg47.0000°,Azm273.0000° $M_0$5.30000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=63.0. Felt [VI] at Alto Hospicio, Iquique and Pica; [V] at Calama, Huara, Pozo Almonte, Quillagua and Tocopilla; [IV] at Camina and Maria Elena; [III] at Antofagasta, Arica, Caldera, Chanaral, Codpa, Copiapo, Mejillones, Poconchile, San Pedro de Atacama, Taltal and Tierra Amarilla; [II] at Cuya, Los Loros and Putre. Also felt at Buin. Felt [IV] at Arequipa and [II] at Tacna, Peru. Also felt at Moquegua. Felt at Potosi, Bolivia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.10000×10^{19} Moment Tensor Solution. s38 Moment tensor: Scale 10^{18}Nm; M_{rr}1.82 $M_{\theta\theta}$-0.84 $M_{\phi\phi}$-0.98 $M_{r\theta}$-1.83 $M_{\theta\phi}$2.03 $M_{\phi r}$-5.82 Best double couple: NP1:ϕ_s188.00000° ,δ84.00000°,λ109.00000°. NP2:ϕ_s295.00000°,δ19.00000°,λ18.00000°. Principal axes: T 7.2900,Plg48.0000°,Azm118.0000°; N -1.6800,Plg18.0000°,Azm6.0000° ; P -5.6100,Plg37.0000°,Azm262.0000° $M_0$6.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s298.00000°,δ16.00000°,λ19.00000°. NP2: ϕ_s190.00000°,δ85.00000°,λ105.00000°. Principal axes: T Plg48.0000°,Azm116.0000° ; N Plg0.0000°,Azm0.0000°; P Plg38.0000°,Azm267.0000°
CASC Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.

(186) Vanuatu Islands

ISC	**VI**	**20 18 13 22.5–.41**	**13.37S–.04**	**167.23E–.04**	**219–3**	**5.4b**	**1069**	**8-170**
IDC	VI	20 18 13 20.4–.81	13.33S	167.24E	196–6	5.5,5.0		**¶16720956**
GCMT	VI	20 18 13 21.4–.40	13.38S	166.91E	205–4	5.7W,5.0		
BJI	VI	20 18 13 21.1	12.96S	167.20E	204	5.4b,5.4b		
NEIC	VI	20 18 13 21.4–.09	13.29S	167.21E	207	5.4b,5.4b		
ISCJB	VI	20 18 13 22.2–.74	13.37S–.02	167.17E–.02	227–7	5.3b,5.4b		
MOS	VI	20 18 13 23.3–1.1	13.21S	167.12E	227	5.7b,5.4b		

ISC Event type se.
IDC Error ellipse: s-maj=9.8km s-min=8.0km az=81.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c12; s71,c94; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}1.93±.17 $M_{\theta\theta}$2.04±.22; $M_{\phi\phi}$-3.96±.20; $M_{r\theta}$-0.36±.15; $M_{\theta\phi}$2.33±.18; $M_{\phi r}$-1.25±.14; Best double couple: NP1:ϕ_s200.00000°,δ75.00000° ,λ150.00000°. NP2:ϕ_s299.00000°,δ61.00000°,λ17.00000°. Principal axes: T 3.2950,Plg31.0000°,Azm156.0000°; N 1.6410,Plg57.0000°,Azm356.0000° ; P -4.9260,Plg9.0000°,Azm252.0000° $M_0$4.11000×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.8km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=150.9.
MOS Error ellipse: s-maj=7.9km s-min=6.2km az=118.2.

(263) Talaud Islands

ISC	**VI**	**23 16 33 12.6–.41**	**3.02N–.04**	**125.65E–.06**	**129**	**4.5b**	**70**	**1-91**
ISCJB	VI	23 16 33 11.2–.26	3.07N–.03	125.72E–.05	129	4.4b		**¶16713640**
NEIC	VI	23 16 33 13.9–1.1	3.13N	125.77E	146–13	4.7b		
IDC	VI	23 16 33 14.1–3.1	3.01N	125.51E	146–30	4.1,3.8		
DJA	VI	23 16 33 14.4–.40	3N–3.0	126E–5.0	10	5.5b,5.0		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(216) Mariana Islands

ISC	**VI**	**26 09 19 47.5–.24**	**18.93N–.03**	**146.28E–.03**	**97–1**	**5.6b**	**1262**	**2-157**
BJI	VI	26 09 19 43.7	18.75N	146.65E	99	5.2b,5.1b		**¶16682703**
ISCJB	VI	26 09 19 45.8–.53	18.90N–.02	146.29E–.02	92–4	5.5b,5.1b		
MOS	VI	26 09 19 46.5–.89	18.91N	146.19E	100	5.6b,4.6s		
IDC	VI	26 09 19 47.6–.46	18.86N	146.25E	98–3	5.4,5.1		
GCMT	VI	26 09 19 48.1–.10	18.91N	146.49E	77–1	5.5W,5.1		
NEIC	VI	26 09 19 48.1–.45	18.86N	146.28E	99–4	5.6b,5.5W		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.7km az=174.1.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=101.9.
IDC Error ellipse: s-maj=11.8km s-min=6.7km az=91.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c221; s133,c295;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$1.99±.03; $M_{\phi\phi}$-0.91±.03; $M_{r\theta}$-1.60±.02; $M_{\theta\phi}$0.26±.03; $M_{\phi r}$1.09±.02; Best double couple: NP1: ϕ_s117.00000°,δ75.00000°,λ-59.00000°. NP2:ϕ_s230.00000°,δ34.00000°,λ-153.00000°. Principal axes: T 2.6830,Plg24.0000°,Azm184.0000°; N -0.1640,Plg30.0000°,Azm288.0000° ; P -2.5210,Plg50.0000°,Azm62.0000° $M_0$2.60200×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.6km s-min=2.3km az=110.0. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49 $M_{\theta\theta}$1.92 $M_{\phi\phi}$-0.43 $M_{r\theta}$-1.16 $M_{\theta\phi}$0.05 $M_{\phi r}$1.04 Best double couple: NP1:ϕ_s243.00000°,δ34.00000°,λ-137.00000°. NP2:ϕ_s116.00000° ,δ68.00000°,λ-64.00000°. Principal axes: T 2.3000,Plg18.0000°,Azm186.0000° ; N 0.0700,Plg24.0000°,Azm285.0000°; P -2.3700,Plg59.0000°,Azm63.0000° $M_0$2.30000×10^{17}

(286) Flores region

ISC	**VI**	**27 16 47 14.9–.30**	**8.98S–.03**	**122.49E–.03**	**128–2**	**5.7b**	**1710**	**0-170**
MOS	VI	27 16 47 08.7–.99	8.88S	122.45E	82	6.0b		**¶602918790**
BJI	VI	27 16 47 13.4	8.90S	122.50E	121	5.9b,5.8b		
ISCJB	VI	27 16 47 14.9–.29	9.07S–.02	122.44E–.02	149–2	5.7b,5.8b		
GCMT	VI	27 16 47 14.3–.10	9.21S	122.56E	133–0	5.6W,5.8b		
NEIC	VI	27 16 47 14.0–.00	8.92S	122.57E	130	5.6W,5.8b		
NEIC	VI	27 16 47 14.3–.45	8.93S	122.47E	120–3	5.8b,5.5W		
DJA	VI	27 16 47 15.7–.20	9S–2.0	122E–1.0	139–2	6.4,6.0b		
IDC	VI	27 16 47 15.6–.84	8.93S	122.53E	129–6	5.8,5.4		
KLM	VI	27 16 47 17.0	9.39S	122.38E	163	6.3s,6.0L		

ISC Event type fe.
MOS Error ellipse: s-maj=7.7km s-min=4.6km az=114.1.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=43.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c197; s126,c295;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59±.03 $M_{\theta\theta}$-1.98±.03; $M_{\phi\phi}$1.39±.04; $M_{r\theta}$1.77±.02; $M_{\theta\phi}$0.66±.03; $M_{\phi r}$1.29±.03; Best double couple: NP1:ϕ_s60.00000° ,δ82.00000°,λ51.00000°. NP2:ϕ_s321.00000°,δ39.00000°,λ168.00000°. Principal axes: T 2.8900,Plg40.0000°,Azm295.0000°; N -0.0100,Plg38.0000°,Azm66.0000° ; P -2.8830,Plg27.0000°,Azm180.0000° $M_0$2.88600×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}0.39 $M_{\theta\theta}$-1.19 $M_{\phi\phi}$0.81 $M_{r\theta}$1.75 $M_{\theta\phi}$0.13 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s60.00000°,δ84.00000° ,λ66.00000°. NP2:ϕ_s316.00000°,δ25.00000°,λ164.00000°. Principal axes: T 2.1000,Plg46.0000°,Azm305.0000°; N 0.2800,Plg23.0000°,Azm63.0000° ; P -2.3800,Plg34.0000°,Azm170.0000° $M_0$2.30000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=46.0. Felt [III] at Ende. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$-0.61 $M_{\phi\phi}$0.51 $M_{r\theta}$1.77 $M_{\theta\phi}$0.47 $M_{\phi r}$1.13 Best double couple: NP1:ϕ_s329.00000°,δ19.00000°,λ179.00000°. NP2: ϕ_s60.00000°,δ90.00000°,λ71.00000°. Principal axes: T 2.3200,Plg42.0000°,Azm312.0000° ; N -0.2100,Plg19.0000°,Azm60.0000°; P -2.1200,Plg42.0000°,Azm168.0000° $M_0$2.20000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=6.5km az=60.0.

(267) Halmahera

ISC	**VI**	**27 20 20 10.5–1.1**	**1.42N–.05**	**128.33E–.06**	**88–10**	**4.6b**	**96**	**2-158**
ISCJB	VI	27 20 20 09.6–.64	1.43N–.04	128.34E–.04	95–6	4.6b		**¶16721018**
NEIC	VI	27 20 20 10.2–.94	1.46N	128.31E	87–9	4.6b		
IDC	VI	27 20 20 11.9–2.3	1.43N	128.29E	101–21	4.4,4.2		
KLM	VI	27 20 20 12.8	1.14N	128.23E	88	5.9s,4.8b		
DJA	VI	27 20 20 12.0–.40	1N–3.0	128E–3.0	81–4	5.2b,5.0b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(288) Savu Sea

ISC	**VI**	**28 02 07 31.3–.47**	**9.19S–.04**	**121.69E–.04**	**100**	**4.3b**	**69**	**1-153**
ISCJB	VI	28 02 07 29.5–.32	9.07S–.04	121.81E–.03	100	4.1b		**¶16731660**
NEIC	VI	28 02 07 31.9–.75	9.20S	121.58E	114–8	4.5b		

IDC	VI	28 02 07 31.1–3.6	8.89S	121.52E	89–30	4.3,4.1			
DJA	VI	28 02 07 32.7–.30	9S–4.0	122E–2.0	99–5	5.7b,5.2			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
	(274) Southern Sumatera								
ISC	**VI**	**28 19 53 02.3–.69**	**5.69S–.07**	**104.16E–.06**	**110–6**	**4.2b**	**88**	**0-145**	
IDC	VI	28 19 52 49.7–.85	5.51S	104.10E	0	4.1,4.1	**¶16731723**		
NEIC	VI	28 19 53 00.8–.63	5.57S	104.15E	92–6	4.5b,4.1			
ISCJB	VI	28 19 53 02.7–.47	5.53S–.06	104.29E–.06	126–3	4.3b,4.1			
DJA	VI	28 19 53 03.8–.30	6S–4.0	104E–4.0	98–4	5.6b,5.1			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								

MAJOR DEEP FOCUS EARTHQUAKES
h>300km,M>=5

	(132) Santiago del Estero Province								
ISC	**I**	**01 09 56 58.5–.16**	**26.85S–.02**	**63.24W–.03**	**584–1**	**6.7b**	**2994**	**2-177**	
SJA	I	01 09 56 50.8–.55	26.90S	63.68W	649–5	6.9W	**¶601988567**		
BJI	I	01 09 56 56.9	26.19S	63.90W	574	6.8b			
NEIC	I	01 09 56 57.0–.00	26.84S	63.15W	562	6.8b			
MOS	I	01 09 56 57.6–.94	26.82S	63.28W	582	6.7b			
ISCJB	I	01 09 56 57.5–.18	26.78S–.02	63.18W–.02	581–2	6.6b			
NEIC	I	01 09 56 58.1–.09	26.80S	63.14W	577	7.0,7.0W			
GCMT	I	01 09 56 58.1–.10	27.02S	63.21W	586–0	7.0W,7.0W			
GUC	I	01 09 56 59.3–1.9	26.80S	63.31W	554–53	7.0W,7.0W			
IDC	I	01 09 56 59.1–.22	26.82S	63.24W	587–2	6.8,6.1			
NEIC	I	01 09 57 18.2–.00	27.01S	63.00W	593	6.8,6.1			
ISC	Event type fe.								
SJA	Error ellipse: s-maj=3.6km s-min=7.7km az=-1.0.								
NEIC	Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.14 $M_{\theta\theta}$-0.29 $M_{\phi\phi}$2.43 $M_{r\theta}$-1.62 $M_{\theta\phi}$-0.54 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s152.00000° ,δ72.00000°,λ-102.00000°. NP2:ϕ_s8.00000°,δ21.00000°,λ-55.00000°. Principal axes: T 3.9400,Plg26.0000°,Azm252.0000°; N -0.1500,Plg12.0000°,Azm156.0000° ; P -3.7900,Plg61.0000°,Azm43.0000° M_o3.90000×10^{19}								
MOS	Error ellipse: s-maj=9.8km s-min=6.0km az=97.9.								
ISCJB	Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=149.4.								
NEIC	Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=63.0. Felt [V] at Santiago del Estero and [III] in Cordoba, Corrientes and La Rioja. Also felt at Rosario and San Juan. Felt [III] at Campinas, Brazil. Also felt at Brasilia, Londrina, Marilia, Nova Friburgo, Rio Negro and Sao Paulo. Felt [III] at Mejillones and Pozo Almonte; [II] at Antofagasta, Arica, Coquimbo, Huara, La Serena and Vina del Mar, Chile. Also felt at Calama, Chillan, Quilpue and Valparaiso. Complex earthquake, with at least one larger event occurring about 2 seconds after the onset observed on broadband displacement seismograms. Depth from broadband displacement seismograms based on first event. Energy computed from CMT mechanism.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=150s. Moment Tensor Solution. s139,c381; s129,c284; Duration: 8s0 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.47±.01 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$2.59±.02; $M_{r\theta}$-1.76±.01; $M_{\theta\phi}$-0.77±.02; $M_{\phi r}$2.98±.01; Best double couple: NP1:ϕ_s152.00000°,δ72.00000° ,λ-99.00000°. NP2:ϕ_s360.00000°,δ20.00000°,λ-64.00000°. Principal axes: T 4.4440,Plg26.0000°,Azm250.0000°; N -0.1840,Plg9.0000°,Azm155.0000° ; P -4.2650,Plg62.0000°,Azm48.0000° M_o4.35500×10^{19}								
GUC	Error ellipse: s-maj=7.1km s-min=30.3km az=-1.0.								
IDC	Error ellipse: s-maj=6.7km s-min=4.7km az=69.0.								
NEIC	Event type se. Moment Tensor Solution. s99 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.60 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$2.61 $M_{r\theta}$-1.76 $M_{\theta\phi}$-0.83 $M_{\phi r}$2.84 Best double couple: NP1:ϕ_s152.00000° ,δ71.00000°,λ-99.00000°. NP2:ϕ_s357.00000°,δ21.00000°,λ-66.00000°. Principal axes: T 4.3700,Plg25.0000°,Azm249.0000°; N -0.1200,Plg8.0000°,Azm155.0000° ; P -4.2600,Plg63.0000°,Azm47.0000° M_o4.30000×10^{19}								
	(132) Santiago del Estero Province								
ISC	**I**	**01 09 59 37.3–.32**	**26.87S–.07**	**63.22W–.09**	**600**	**5.7b**	**111**	**5-166**	
ISCJB	I	01 09 59 36.6–.40	26.82S–.08	63.15W–.09	600	5.6b	**¶16394566**		
MOS	I	01 09 59 37.1–.82	26.78S	63.10W	605	5.7b			
IDC	I	01 09 59 37.1–.67	26.84S	63.15W	591–7	6.2,5.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=12.4km s-min=7.8km az=137.9.								
MOS	Error ellipse: s-maj=23.3km s-min=15.4km az=106.8.								
IDC	Error ellipse: s-maj=14.7km s-min=8.8km az=68.0.								
	(224) Hokkaido region								
ISC	**I**	**05 03 43 58.6–.43**	**45.86N–.03**	**142.70E–.04**	**328–4**	**4.5b**	**752**	**1-155**	
NIED	I	05 03 43 00	45.70N	142.80E	320	4.4W	**¶15905620**		
BJI	I	05 03 43 53.1	46.05N	143.25E	318	4.5b,4.5b			
SKHL	I	05 03 43 56.9–.90	45.80N	142.63E	330–26	5.1s,4.9b			
MOS	I	05 03 43 57.8–1.0	45.91N	142.60E	329	4.4b,4.9b			
ISCJB	I	05 03 43 57.8–.13	45.89N–.02	142.68E–.03	328–1	4.4b,4.9b			
IDC	I	05 03 43 58.3–.48	45.93N	142.68E	322–5	4.6,4.0			
JMA	I	05 03 43 58.1–.20	45.75N	142.76E	336–2	4.2,4.0			
NEIC	I	05 03 43 58.4–.33	45.94N	142.59E	321–3	4.5b,4.0			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ37.00000°,λ145.00000°. NP2:ϕ_s171.00000°,δ70.00000°,λ58.00000°. M_o4.87000×10^{15}								
MOS	Error ellipse: s-maj=9.9km s-min=5.9km az=95.0.								
ISCJB	Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=164.2.								
IDC	Error ellipse: s-maj=9.3km s-min=7.8km az=145.0.								
JMA	Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=150.0.								
	(663) Sea of Okhotsk								
ISC	**I**	**06 21 12 27.6–.43**	**45.97N–.04**	**144.29E–.04**	**315–4**	**4.1b**	**251**	**1-152**	
NIED	I	06 21 12 00	45.80N	144.20E	360	4.6W	**¶15916094**		
BJI	I	06 21 12 25.5	46.07N	144.43E	319	4.7b,4.5b			
ISCJB	I	06 21 12 26.6–.20	46.01N–.03	144.28E–.04	315–2	4.1b,4.5b			
MOS	I	06 21 12 26.2–1.0	46.06N	144.21E	310	4.1b,4.5b			
SKHL	I	06 21 12 27.4–.20	46.01N	144.18E	328–7	5.3b,4.8s			
IDC	I	06 21 12 27.5–.63	46.08N	144.23E	310–6	4.5,4.0			
NEIC	I	06 21 12 27.7–.39	46.03N	144.25E	314–4	4.5b,4.0			
JMA	I	06 21 12 27.1–.30	45.79N	144.24E	332–3	4.4,4.0			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ20.00000°,λ-28.00000°. NP2:ϕ_s294.00000°,δ81.00000°,λ-108.00000°. M_o7.82000×10^{15}								
ISCJB	Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=31.8.								
MOS	Error ellipse: s-maj=8.6km s-min=5.6km az=97.9.								
IDC	Error ellipse: s-maj=9.2km s-min=7.4km az=119.0.								
NEIC	Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=132.0.								
JMA	Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.								
	(125) Southern Bolivia								
ISC	**I**	**07 04 55 58.3–.34**	**21.83S–.03**	**65.44W–.04**	**304–3**	**5.1b**	**1005**	**1-171**	
SCB	I	07 04 55 50.7–.60	21.50S	65.12W	315	5.0L	**¶15908420**		
ISCJB	I	07 04 55 56.1–.26	21.70S–.02	65.41W–.03	290–2	5.0b			
NEIC	I	07 04 55 57.3–.47	21.78S	65.34W	290–4	5.1b			
BJI	I	07 04 55 57.6	21.80S	65.30W	283	5.4b			
MOS	I	07 04 55 57.3–1.0	21.74S	65.42W	302	5.0b			
IDC	I	07 04 55 58.3–.46	21.81S	65.42W	302–3	5.1,4.6			
GUC	I	07 04 55 58.2–.25	21.87S	65.87W	290	6.8L,5.7W			
SJA	I	07 04 55 58.3–1.2	21.87S	65.55W	303–15	5.1L,4.8W			
ISC	Event type fe.								
SCB	Event type ke. Error ellipse: s-maj=74.5km s-min=12.9km az=59.0.								
ISCJB	Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=142.7.								
NEIC	Event type fe. Error ellipse: s-maj=5.4km s-min=3.7km az=59.0. Felt at Antofagasta, Chile.								
MOS	Error ellipse: s-maj=15.7km s-min=8.0km az=116.2.								
IDC	Error ellipse: s-maj=9.7km s-min=8.0km az=57.0.								
GUC	Error ellipse: s-maj=5.9km s-min=4.2km az=-1.0.								
SJA	Error ellipse: s-maj=6.0km s-min=8.6km az=-1.0.								
	(657) Priamurye-Northeastern China border region								
ISC	**I**	**07 23 34 10.6–.33**	**43.03N–.04**	**131.16E–.03**	**555–3**	**4.8b**	**1130**	**0-164**	
JMA	I	07 23 34 08.0–.30	43.16N	131.49E	633	5.2	**¶15909046**		
BJI	I	07 23 34 10.0	43.22N	131.10E	560	5.2b,5.0b			
MOS	I	07 23 34 10.0–.85	43.08N	131.10E	561	4.8b,5.0b			
SKHL	I	07 23 34 10.9–.50	43.09N	131.19E	555–5	5.4b,5.1s			
NEIC	I	07 23 34 10.9–.22	43.01N	131.04E	553–3	4.8b,5.1s			
ISCJB	I	07 23 34 10.0–.14	43.03N–.02	131.06E–.02	552–1	4.8b,5.1s			
IDC	I	07 23 34 11.4–.47	43.07N	131.02E	560–5	5.1,4.3			
ISC	Event type se.								
JMA	Error ellipse: s-maj=3.3km s-min=4.1km az=-1.0.								
MOS	Error ellipse: s-maj=7.9km s-min=4.8km az=114.2.								
NEIC	Event type se. Error ellipse: s-maj=3.9km s-min=2.7km az=163.0.								
ISCJB	Event type se. Error ellipse: s-maj=2.9km s-min=2.2km az=168.1.								
IDC	Error ellipse: s-maj=6.9km s-min=6.4km az=171.0.								
	(220) Northwest of Kuril Islands								
ISC	**I**	**08 22 30 46.4–.38**	**47.64N–.04**	**146.98E–.04**	**423–3**	**4.4b**	**421**	**2-152**	
NIED	I	08 22 30 00	47.00N	147.50E	340	4.5W	**¶15910789**		
MOS	I	08 22 30 44.7–.88	47.69N	146.96E	416	4.4b			
ISCJB	I	08 22 30 44.9–.20	47.69N–.03	146.96E–.03	414–2	4.3b			
SKHL	I	08 22 30 44.1–.80	47.51N	147.20E	425–5	5.1b,4.6s			
BJI	I	08 22 30 45.7	47.78N	146.83E	418	4.7b,4.6b			
JMA	I	08 22 30 45.1–.50	47.03N	147.49E	458	4.2,4.6b			
IDC	I	08 22 30 46.8–.51	47.75N	146.91E	425–5	4.6,3.9			
NEIC	I	08 22 30 46.9–.31	47.74N	146.86E	422–4	4.4b,3.9			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ36.00000°,λ-36.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ-120.00000°. M_o6.47000×10^{15}								
MOS	Error ellipse: s-maj=8.5km s-min=5.7km az=103.3.								
ISCJB	Event type se. Error ellipse: s-maj=5.1km s-min=2.8km az=156.2.								
JMA	Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.								
IDC	Error ellipse: s-maj=8.6km s-min=5.9km az=142.0.								
NEIC	Event type se. Error ellipse: s-maj=5.4km s-min=2.7km az=155.0.								
	(259) Mindanao								
ISC	**I**	**12 16 42 41.5–.40**	**5.67N–.05**	**124.02E–.08**	**550**	**4.2b**	**94**	**2-125**	
BJI	I	12 16 42 37.1	5.40N	124.03E	531	4.8b,4.4b	**¶15928085**		
ISCJB	I	12 16 42 39.6–.25	5.68N–.03	124.04E–.05	550	4.2b,4.4b			
MAN	I	12 16 42 39	5.66N	124.18E	519	5.6b,4.9s			
IDC	I	12 16 42 40.4–.85	5.81N	124.16E	533–10	4.4,3.6			
NEIC	I	12 16 42 40.0–.42	5.69N	124.01E	531–6	4.6b,3.6			
DJA	I	12 16 42 41.3–1.0	6N–11	124E–5.0	507–11	5.3,4.9b			
KLM	I	12 16 42 42.2	5.79N	123.92E	496	5.5s,4.8b			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=6.9km s-min=3.8km az=157.8.								
IDC	Error ellipse: s-maj=18.0km s-min=8.5km az=66.0.								
NEIC	Event type se. Error ellipse: s-maj=10.7km s-min=7.4km az=58.0.								
	(212) Bonin Islands region								
ISC	**I**	**12 21 32 54.6–.18**	**26.97N–.02**	**140.02E–.02**	**524–1**	**6.2b**	**3157**	**2-172**	
NIED	I	12 21 32 00	27.10N	140.20E	500	6.4W	**¶15925918**		
BJI	I	12 21 32 53.3	26.95N	140.07E	520	6.5b,6.4b			
NEIC	I	12 21 32 53.9–.08	26.97N	139.88E	512	6.5W,6.5W			
ISCJB	I	12 21 32 54.4–.19	26.93N–.01	139.96E–.01	527–2	6.2b,6.5W			
IDC	I	12 21 32 54.8–.48	26.94N	140.08E	521–4	6.5,5.7			
MOS	I	12 21 32 54.1–.99	26.96N	139.94E	526	6.2b,5.7s			
JMA	I	12 21 32 54.5–.30	27.08N	140.17E	516–4	6.3,5.7s			
GCMT	I	12 21 32 55.2–.10	26.94N	139.94E	512–0	6.5W,5.7s			
NEIC	I	12 21 32 55.0–.00	26.94N	140.01E	520	6.5W,5.7s			
NEIC	I	12 21 33 08.6–.00	27.05N	140.34E	521	6.5W,5.7s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ34.00000°,λ-116.00000°. NP2:ϕ_s314.00000°,δ60.00000°,λ-74.00000°. M_o4.16000×10^{18}								
NEIC	Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=139.0. Recorded [2 JMA] in the Chichijima-retto and Hahajima-retto. Recorded [1 JMA] in Chiba, Fukushima, Gumma, Ibaraki, Kanagawa, Miyagi, Saitama and Tochigi, Honshu. Two events about 2 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.51 $M_{\theta\theta}$2.17 $M_{\phi\phi}$0.34 $M_{r\theta}$2.09 $M_{\theta\phi}$-2.01 $M_{\phi r}$-5.41 Best double couple: NP1:ϕ_s334.00000°,δ79.00000°,λ-72.00000°. NP2:ϕ_s95.00000°,δ21.00000°,λ-147.00000°. Principal axes: T 6.4400,Plg31.0000°,Azm49.0000°; N 0.2600,Plg17.0000°,Azm150.0000° ; P -6.7000,Plg53.0000°,Azm265.0000° M_o6.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s95.00000°,δ25.00000°,λ-142.00000°. NP2: ϕ_s330.00000°,δ75.00000°,λ-70.00000°. Principal axes: T Plg27.0000°,Azm44.0000° ; N Plg0.0000°,Azm0.0000°; P Plg56.0000°,Azm265.0000°								
ISCJB	Event type fe. Error ellipse: s-maj=1.9km s-min=1.6km az=149.1.								
IDC	Error ellipse: s-maj=7.4km s-min=5.2km az=84.0.								
MOS	Error ellipse: s-maj=6.3km s-min=3.6km az=105.4.								
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s141,c355; s124,c225; Duration: 4s4 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.56±.03 $M_{\theta\theta}$4.17±.05; $M_{\phi\phi}$-0.61±.05; $M_{r\theta}$2.32±.04; $M_{\theta\phi}$-2.61±.04; $M_{\phi r}$-5.22±.04; Best double couple: NP1:ϕ_s325.00000°,δ74.00000° ,λ-63.00000°. NP2:ϕ_s84.00000°,δ31.00000°,λ-147.00000°. Principal axes: T 7.2630,Plg24.0000°,Azm35.0000°; N 0.2520,Plg26.0000°,Azm137.0000° ; P -7.5180,Plg53.0000°,Azm268.0000° M_o7.39000×10^{18}								
NEIC	Event type se. Moment Tensor Solution. s53 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.96 $M_{\theta\theta}$2.87 $M_{\phi\phi}$0.09 $M_{r\theta}$1.93 $M_{\theta\phi}$-1.20 $M_{\phi r}$-4.77 Best double couple: NP1:ϕ_s327.00000° ,δ76.00000°,λ-71.00000°. NP2:ϕ_s91.00000°,δ23.00000°,λ-143.00000°. Principal axes: T 5.3800,Plg29.0000°,Azm42.0000°; N 1.1400,Plg18.0000°,Azm143.0000° ; P -6.5200,Plg55.0000°,Azm261.0000° M_o5.90000×10^{18}								
NEIC	Event type se. Moment Tensor Solution. s76 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.21 $M_{\theta\theta}$3.59 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.11 $M_{\theta\phi}$-2.90 $M_{\phi r}$-5.12 Best double couple: NP1:ϕ_s329.00000° ,δ75.00000°,λ-63.00000°. NP2:ϕ_s86.00000°,δ31.00000°,λ-149.00000°. Principal axes: T 7.1400,Plg25.0000°,Azm38.0000°; N -0.0300,Plg26.0000°,Azm141.0000° ; P -7.1100,Plg53.0000°,Azm271.0000° M_o7.10000×10^{18}								
	(181) Fiji Islands region								
ISC	**I**	**13 10 41 42.0–.36**	**22.40S–.04**	**179.19W–.05**	**555–3**	**5.0b**	**749**	**5-171**	
ISCJB	I	13 10 41 38.9–.50	22.32S–.02	179.29W–.03	524–6	5.0b	**¶15931416**		
BJI	I	13 10 41 39.3	21.92S	178.63W	539	5.1b,5.0b			
MOS	I	13 10 41 39.9–3.0	21.99S	179.55W	503	5.1b,5.0b			
GCMT	I	13 10 41 41.8–.60	22.80S	178.74W	564–3	5.3W,5.0b			
IDC	I	13 10 41 41.1–.50	22.26S	179.27W	540–4	5.4,4.6			
NEIC	I	13 10 41 41.8–.47	22.36S	179.30W	552–5	5.1b,4.6			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=28.9.								
MOS	Error ellipse: s-maj=11.9km s-min=9.8km az=112.0.								
GCMT	Error ellipse: s-maj=6.7km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s61,c85;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.04 $M_{\theta\theta}$-0.19±.08; $M_{\phi\phi}$0.04±.08; $M_{r\theta}$-0.57±.07; $M_{\theta\phi}$-1.03±.06; $M_{\phi r}$-0.19±.08; Best double couple: NP1:ϕ_s93.00000°,δ88.00000°,λ-152.00000°. NP2:ϕ_s1.00000°,δ62.00000°,λ-3.00000°. Principal axes: T 1.0410,Plg18.0000°,Azm224.0000°; N 0.2810,Plg62.0000°,Azm97.0000° ; P -1.3230,Plg21.0000°,Azm321.0000° M_o1.18200×10^{17}								
IDC	Error ellipse: s-maj=9.0km s-min=8.2km az=111.0.								
NEIC	Event type se. Error ellipse: s-maj=5.0km s-min=3.8km az=138.0.								
	(259) Mindanao								
ISC	**I**	**24 06 28 07.6–.44**	**6.38N–.04**	**123.55E–.05**	**589–4**	**4.8b**	**430**	**1-144**	
KLM	I	24 06 28 05.6	6.70N	123.73E	580	5.9s,5.2b	**¶15959508**		
MAN	I	24 06 28 05	6.35N	123.60E	596	5.7b,5.0s			
BJI	I	24 06 28 06.0	6.19N	123.59E	605	4.8b,4.7b			
ISCJB	I	24 06 28 06.8–.20	6.45N–.02	123.58E–.03	594–3	4.8b,4.7b			
NEIC	I	24 06 28 07.8–.34	6.39N	123.52E	590–5	4.9b,4.7b			
MOS	I	24 06 28 07.7–.64	6.44N	123.59E	612	4.6b,4.7b			
IDC	I	24 06 28 08.0–.64	6.42N	123.56E	594–7	4.9,4.0			
DJA	I	24 06 28 08.2–.30	6N–3.0	124E–2.0	589–3	5.3,5.2b			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
	(171) South of Fiji Islands								
ISC	**I**	**24 08 37 44.3–.34**	**23.45S–.05**	**179.70W–.06**	**536**	**4.5b**	**180**	**6-170**	
ISCJB	I	24 08 37 44.1–.17	23.47S–.03	179.80W–.05	536	4.5b	**¶16019257**		
NEIC	I	24 08 37 45.3–.85	23.49S	179.76W	543–11	5.0b			
IDC	I	24 08 37 45.3–1.6	23.34S	179.72W	544–18	4.6,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=6.3km s-min=3.5km az=22.7.								
NEIC	Event type se. Error ellipse: s-maj=12.1km s-min=7.9km az=138.0.								
IDC	Error ellipse: s-maj=13.1km s-min=11.4km az=127.0.								
	(220) Northwest of Kuril Islands								
ISC	**I**	**28 11 57 54.1–.57**	**47.27N–.06**	**148.38E–.07**	**377**	**3.5b**	**66**	**2-80**	
ISCJB	I	28 11 57 53.1–.38	47.33N–.04	148.42E–.08	377	3.4b	**¶17191188**		

MOS I 28 11 57 53.4–1.3 47.65N 148.34E 360 3.9b
SKHL I 28 11 57 54.2–.50 47.60N 148.34E 348–12 5.2s,4.8b
IDC I 28 11 57 55.9–1.5 47.72N 148.22E 366–16 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.8km az=30.3.
MOS Error ellipse: s-maj=21.5km s-min=9.6km az=70.2.
IDC Error ellipse: s-maj=17.8km s-min=10.4km az=146.0.

(181) Fiji Islands region

ISC I 28 12 37 18.7–.35 21.35S–.04 178.60W–.05 569–3 5.2b 1327 5-176
ISCJB I 28 12 37 16.2–.57 21.35S–.03 178.74W–.02 543–7 5.1b **¶15978004**
BJI I 28 12 37 17.8 20.97S 178.46W 560 5.2b,5.2b
MOS I 28 12 37 18.9–.88 21.20S 178.80W 573 5.2b,5.2b
IDC I 28 12 37 18.7–1.0 21.31S 178.68W 563–10 5.5,4.7
GCMT I 28 12 37 19.4–.30 21.08S 178.81W 581–2 5.3W,4.7
NEIC I 28 12 37 19.4–.10 21.39S 178.75W 572 5.2b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.1km az=168.4.
MOS Error ellipse: s-maj=9.5km s-min=7.5km az=68.4.
IDC Error ellipse: s-maj=10.1km s-min=9.0km az=108.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s79,c115;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.72±.03 $M_{\theta\theta}$0.81±.05; $M_{\phi\phi}$-0.08±.05; $M_{r\theta}$-1.01±.05; $M_{\theta\phi}$-0.14±.05; $M_{\phi r}$-0.33±.05; Best double couple: NP1:ϕ_s78.00000°,δ73.00000°,λ-105.00000°. NP2:ϕ_s299.00000°,δ22.00000°,λ-51.00000°. Principal axes: T 1.3120,Plg26.0000°,Azm179.0000°; N 0.0140,Plg14.0000°,Azm82.0000°; P -1.3260,Plg60.0000°,Azm327.0000° $M_0$1.31900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=139.0.

(181) Fiji Islands region

ISC I 28 12 41 01.7–.44 19.20S–.05 178.05W–.05 615–4 5.0b 875 8-174
ISCJB I 28 12 41 00.0–.54 19.18S–.04 178.17W–.03 601–6 5.0b **¶16019274**
BJI I 28 12 41 00.8 18.89S 178.18W 602 5.1b,5.0b
IDC I 28 12 41 00.9–1.2 19.25S 178.04W 605–13 5.3,4.6
GCMT I 28 12 41 02.8–.50 19.20S 178.07W 623–4 5.4W,4.6
NEIC I 28 12 41 02.9–.11 19.16S 178.22W 623 4.9b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=2.9km az=158.5.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=125.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s70,c94;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.18±.05 $M_{\theta\theta}$1.27±.08; $M_{\phi\phi}$-1.09±.09; $M_{r\theta}$-0.18±.09; $M_{\theta\phi}$-0.56±.09; $M_{\phi r}$-1.11±.09; Best double couple: NP1:ϕ_s323.00000°,δ70.00000°,λ-27.00000°. NP2:ϕ_s63.00000°,δ65.00000°,λ-158.00000°. Principal axes: T 1.4000,Plg4.0000°,Azm14.0000°; N 0.5360,Plg57.0000°,Azm110.0000°; P -1.9330,Plg33.0000°,Azm282.0000° $M_0$1.66600×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=2.9km az=146.0.

(280) Banda Sea

ISC I 28 21 33 41.6–.42 6.54S–.04 128.04E–.05 337–3 4.4b 211 3-152
BJI I 28 21 33 37.0 6.79S 128.44E 340 4.6b,4.4b **¶15979840**
MOS I 28 21 33 39.4–1.0 6.45S 128.05E 328 4.5b,4.4b
ISCJB I 28 21 33 40.6–.29 6.53S–.03 128.09E–.03 342–3 4.4b,4.4b
NEIC I 28 21 33 41.0–.32 6.47S 128.04E 329–3 4.5b,4.4b
IDC I 28 21 33 41.6–1.5 6.50S 128.00E 334–16 4.9,4.2
DJA I 28 21 33 42.0–.20 7S–4.0 128E–3.0 313–6 5.1b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(181) Fiji Islands region

ISC I 29 02 41 18.5–.41 17.98S–.06 178.04W–.05 594–4 4.8b 551 7-175
BJI I 29 02 41 14.1 18.04S 177.34W 585 5.0b,4.9b **¶16019276**
ISCJB I 29 02 41 17.4–.53 17.92S–.05 178.12W–.03 587–7 4.7b,4.9b
GCMT I 29 02 41 18.9–.60 17.88S 178.17W 618–4 5.3W,4.9b
NEIC I 29 02 41 18.9–.17 17.89S 178.16W 594 4.8b,4.9b
MOS I 29 02 41 18.1–1.3 17.71S 178.22W 585 4.8b,4.9b
IDC I 29 02 41 19.4–.63 17.96S 178.08W 599–7 5.1,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.2km az=159.2.
GCMT Error ellipse: s-maj=4.4km s-min=6.7km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s59,c78;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.37±.03 $M_{\theta\theta}$-0.10±.06; $M_{\phi\phi}$0.47±.06; $M_{r\theta}$-0.58±.06; $M_{\theta\phi}$0.18±.06; $M_{\phi r}$-0.59±.06; Best double couple: NP1:ϕ_s42.00000°,δ78.00000°,λ-74.00000°. NP2:ϕ_s168.00000°,δ21.00000°,λ-142.00000°. Principal axes: T 0.9690,Plg31.0000°,Azm118.0000°; N -0.0380,Plg16.0000°,Azm218.0000°; P -0.9320,Plg55.0000°,Azm332.0000° $M_0$0.95100×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=3.9km az=153.0.
MOS Error ellipse: s-maj=9.0km s-min=8.7km az=79.0.
IDC Error ellipse: s-maj=11.2km s-min=7.4km az=153.0.

(215) Mariana Islands region

ISC I 29 12 38 59.3–.32 21.64N–.03 143.01E–.04 316–2 5.2b 1063 5-168
JMA I 29 12 38 58.2–.30 21.68N 143.31E 342 5.8 **¶15979849**
MOS I 29 12 38 58.0–.89 21.65N 142.94E 313 5.4b
IDC I 29 12 38 59.7–.80 21.63N 142.98E 319–7 5.4,4.8
NEIC I 29 12 38 60.0–.35 21.61N 142.96E 321–3 5.5W,5.2b
ISCJB I 29 12 38 59.1–.33 21.62N–.02 142.99E–.02 324–3 5.1b,5.2b
GCMT I 29 12 39 00.0–.20 21.71N 142.85E 319–1 5.5W,5.2b
BJI I 29 12 39 01.4 21.92N 142.65E 320 5.0b,4.9b
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=4.1km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.1km az=106.7.
IDC Error ellipse: s-maj=8.5km s-min=5.5km az=79.0.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=2.4km az=103.0. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86 $M_{\theta\theta}$-1.15 $M_{\phi\phi}$0.28 $M_{r\theta}$1.44 $M_{\theta\phi}$-0.66 $M_{\phi r}$0.79 Best double couple: NP1:ϕ_s264.00000°,δ18.00000°,λ112.00000°. NP2:ϕ_s61.00000°,δ73.00000°,λ83.00000°. Principal axes: T 1.7400,Plg61.0000°,Azm320.0000°; N 0.5200,Plg7.0000°,Azm63.0000°; P -2.2600,Plg28.0000°,Azm156.0000° $M_0$2.00000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.6km az=146.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s78,c128;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.52±.05 $M_{\theta\theta}$-1.05±.07; $M_{\phi\phi}$-0.46±.09; $M_{r\theta}$1.16±.08; $M_{\theta\phi}$-0.92±.07; $M_{\phi r}$0.29±.08; Best double couple: NP1:ϕ_s67.00000°,δ64.00000°,λ103.00000°. NP2:ϕ_s219.00000°,δ29.00000°,λ65.00000°. Principal axes: T 1.9680,Plg69.0000°,Azm4.0000°; N 0.1050,Plg12.0000°,Azm241.0000°; P -2.0710,Plg18.0000°,Azm147.0000° $M_0$2.01900×10^{17}

(262) Celebes Sea

ISC I 31 20 17 52.3–.34 4.02N–.05 122.72E–.07 604 4.5b 150 3-119
BJI I 31 20 17 43.9 3.36N 123.05E 581 4.8b,4.8b **¶16397345**
ISCJB I 31 20 17 50.7–.21 3.99N–.03 122.71E–.05 604 4.4b,4.8b
MOS I 31 20 17 50.5–.84 4.04N 122.64E 600 4.8b,4.8b
IDC I 31 20 17 51.8–.76 3.97N 122.66E 596–9 4.7,3.7
DJA I 31 20 17 54.6–.70 4N–8.0 123E–5.0 514–9 5.1,5.0b
ISC Event type ke.
ISCJB Event type ke.

(171) South of Fiji Islands

ISC II 02 16 38 11.1–.32 24.79S–.04 179.95W–.05 516–3 5.1b 713 5-168
ISCJB II 02 16 38 07.2–.51 24.65S–.03 179.97E–.04 478–6 5.0b **¶16168794**
MOS II 02 16 38 08.7–1.2 24.54S 179.99E 491 5.1b
BJI II 02 16 38 09.6 24.80S 180.00E 513 5.1b,5.0b
GCMT II 02 16 38 10.6–.60 24.68S 179.98W 539–4 5.3W,5.0b
NEIC II 02 16 38 10.6–.21 24.71S 180.00W 512 5.2b,5.0b
IDC II 02 16 38 10.3–.61 24.63S 180.00W 503–5 5.4,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.1km az=13.9.
MOS Error ellipse: s-maj=10.1km s-min=9.0km az=132.1.
GCMT Error ellipse: s-maj=7.8km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s49,c62;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.37±.04 $M_{\theta\theta}$0.43±.07; $M_{\phi\phi}$-0.05±.07; $M_{r\theta}$-0.41±.08; $M_{\theta\phi}$0.00±.07; $M_{\phi r}$-0.82±.06; Best double couple: NP1:ϕ_s35.00000°,δ82.00000°,λ-105.00000°. NP2:ϕ_s278.00000°,δ17.00000°,λ-28.00000°. Principal axes: T 0.8260,Plg36.0000°,Azm138.0000°; N 0.2920,Plg15.0000°,Azm37.0000°; P -1.1180,Plg51.0000°,Azm289.0000° $M_0$0.97200×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.5km az=102.0.
IDC Error ellipse: s-maj=8.6km s-min=8.4km az=66.0.

(265) Minahassa Peninsula, Sulawesi

ISC II 02 19 25 17.7–.44 1.15N–.04 122.41E–.05 418–4 4.5b 386 1-162
MOS II 02 19 25 16.6–.91 1.26N 122.30E 416 4.7b **¶16002358**
ISCJB II 02 19 25 17.2–.17 1.19N–.02 122.44E–.02 427–2 4.6b
DJA II 02 19 25 17.9–.10 1N–2.0 122E–2.0 417–2 5.3,5.2b
BJI II 02 19 25 17.4 1.20N 122.40E 419 4.6b,4.4b
IDC II 02 19 25 18.3–.77 1.16N 122.36E 424–8 4.9,4.2
NEIC II 02 19 25 18.2–.36 1.21N 122.42E 424–4 4.7b,4.2
KLM II 02 19 25 20.5 1.11N 122.14E 419 6.1s,5.0b
ISC Event type se.
MOS Error ellipse: s-maj=11.6km s-min=5.7km az=115.3.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=13.5.
IDC Error ellipse: s-maj=12.5km s-min=5.6km az=79.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=70.0.

(262) Celebes Sea

ISC II 03 10 00 11.3–.63 3.43N–.09 124.51E–.09 331 4.1b 29 4-91
ISCJB II 03 10 00 10.4–.51 3.53N–.06 124.51E–.07 331 3.9b **¶17191589**
IDC II 03 10 00 12.8–1.9 3.29N 124.37E 352–20 4.4,3.8
DJA II 03 10 00 13.2–.70 3N–9.0 125E–4.0 331–9 5.1b,4.8
ISC Event type ke.
ISCJB Event type ke.

(193) Bougainville-Solomon Islands region

ISC II 07 19 53 42.9–.22 7.09S–.03 155.32E–.03 415–1 5.9b 2014 4-163
BJI II 07 19 53 40.5 7.05S 155.35E 415 6.2b,6.2b **¶16009379**
ISCJB II 07 19 53 41.7–.43 7.16S–.02 155.23E–.02 413–4 5.9b,6.2b
MOS II 07 19 53 41.5–1.2 7.00S 155.14E 411 5.9b,5.4s
IDC II 07 19 53 41.8–.54 7.13S 155.26E 403–5 6.2,5.4
NEIC II 07 19 53 42.0–.00 7.16S 155.28E 413 6.2,5.4
NEIC II 07 19 53 42.9–.12 7.15S 155.18E 415 6.4,6.4W
DJA II 07 19 53 43.7–.70 7S–3.0 155E–4.0 425–8 6.4b,6.2
GCMT II 07 19 53 44.2–.10 7.04S 155.34E 426–0 6.5W,6.2
NEIC II 07 19 53 57.5–.00 7.27S 155.02E 418 6.5W,6.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=29.6.
MOS Error ellipse: s-maj=6.4km s-min=5.3km az=95.2.
IDC Error ellipse: s-maj=6.5km s-min=5.0km az=68.0.
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{18}Nm; M_{rr}0.85 $M_{\theta\theta}$2.45 $M_{\phi\phi}$-3.30 $M_{r\theta}$2.24 $M_{\theta\phi}$0.68 $M_{\phi r}$-3.95 Best double couple: NP1:ϕ_s142.00000°,δ83.00000°,λ61.00000°. NP2:ϕ_s40.00000°,δ28.00000°,λ165.00000°. Principal axes: T 4.5800,Plg45.0000°,Azm25.0000°; N 1.4800,Plg28.0000°,Azm146.0000°; P -6.0500,Plg32.0000°,Azm256.0000° $M_0$5.30000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=4.1km az=116.0. Felt at Gizo. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}1.09 $M_{\theta\theta}$1.47 $M_{\phi\phi}$-2.56 $M_{r\theta}$2.36 $M_{\theta\phi}$0.49 $M_{\phi r}$-4.20 Best double couple: NP1:ϕ_s149.00000°,δ82.00000°,λ73.00000°. NP2:ϕ_s33.00000°,δ19.00000°,λ153.00000°. Principal axes: T 4.8000,Plg51.0000°,Azm40.0000°; N 0.9400,Plg17.0000°,Azm151.0000°; P -5.7400,Plg35.0000°,Azm253.0000° $M_0$5.30000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ14.00000°,λ135.00000°. NP2:ϕ_s150.00000°,δ80.00000°,λ80.00000°. Principal axes: T Plg54.0000°,Azm48.0000°; N Plg0.0000°,Azm0.0000°; P Plg34.0000°,Azm249.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s144,c349; s121,c213; Duration: 4s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.92±.02 $M_{\theta\theta}$2.94±.03; $M_{\phi\phi}$-3.86±.03; $M_{r\theta}$2.23±.03; $M_{\theta\phi}$0.69±.03; $M_{\phi r}$-4.63±.03; Best double couple: NP1:ϕ_s144.00000°,δ83.00000°,λ62.00000°. NP2:ϕ_s42.00000°,δ29.00000°,λ166.00000°. Principal axes: T 5.0430,Plg44.0000°,Azm26.0000°; N 1.9530,Plg28.0000°,Azm148.0000°; P -6.9930,Plg32.0000°,Azm258.0000° $M_0$6.01800×10^{18}
NEIC Event type se. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}1.03 $M_{\theta\theta}$2.66 $M_{\phi\phi}$-3.70 $M_{r\theta}$1.96 $M_{\theta\phi}$0.94 $M_{\phi r}$-4.18 Best double couple: NP1:ϕ_s144.00000°,δ82.00000°,λ62.00000°. NP2:ϕ_s39.00000°,δ29.00000°,λ163.00000°. Principal axes: T 4.4600,Plg46.0000°,Azm25.0000°; N 2.0300,Plg28.0000°,Azm148.0000°; P -6.5000,Plg31.0000°,Azm257.0000° $M_0$5.50000×10^{18}

(280) Banda Sea

ISC II 08 08 16 05.2–.40 6.01S–.04 127.89E–.04 399–3 4.7b 349 2-161
BJI II 08 08 16 03.4 6.00S 127.80E 396 4.5b,4.2b **¶16009499**
ISCJB II 08 08 16 04.3–.22 6.00S–.02 127.90E–.02 402–2 4.7b,4.2b
MOS II 08 08 16 04.5–1.2 5.91S 127.85E 404 4.7b,4.2b
DJA II 08 08 16 05.3–.20 6S–2.0 128E–2.0 400–3 5.7,5.3b
KLM II 08 08 16 05.9 6.12S 127.84E 405 5.6s,5.1b
IDC II 08 08 16 05.6–.65 5.99S 127.87E 402–6 4.9,4.2
NEIC II 08 08 16 06.1–.12 5.96S 127.84E 405 4.9b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=37.9.
MOS Error ellipse: s-maj=12.0km s-min=7.1km az=109.2.
IDC Error ellipse: s-maj=11.4km s-min=6.5km az=68.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=225.0.

(125) Southern Bolivia

ISC II 10 00 41 18.1–.35 22.11S–.05 63.87W–.05 550 4.5b 126 2-173
SCB II 10 00 41 10.9–.09 21.22S 63.61W 521 4.2L **¶16020156**
SJA II 10 00 41 13.5–.83 22.31S 64.28W 580–6 4.3L
BJI II 10 00 41 14.9 21.95S 63.73W 512 5.4b
ISCJB II 10 00 41 16.8–.21 22.11S–.03 63.90W–.04 550 4.4b
NEIC II 10 00 41 16.9–.54 22.03S 63.73W 526–7 4.7b
IDC II 10 00 41 16.8–.70 22.11S 63.73W 519–7 4.5,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=9.5km s-min=2.1km az=38.0.
SJA Error ellipse: s-maj=9.1km s-min=8.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=21.8.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.9km az=84.0.
IDC Error ellipse: s-maj=11.0km s-min=9.9km az=24.0.

(262) Celebes Sea

ISC II 10 14 39 28.2–.20 4.13N–.02 123.06E–.03 533–1 6.2b 2747 2-175
MAN II 10 14 39 26 4.06N 123.15E 540 6.7b,6.7s **¶602064445**
KLM II 10 14 39 27.5 4.19N 123.24E 540 6.9L,6.9s
GCMT II 10 14 39 27.7–.10 4.14N 122.91E 521–0 6.5W,6.9s
NEIC II 10 14 39 27.7–.09 4.20N 122.97E 523 6.5W,6.5W
ISCJB II 10 14 39 27.9–.13 4.18N–.01 123.07E–.01 539–1 6.1b,6.5W
MOS II 10 14 39 27.7–1.1 4.22N 123.07E 535 6.2b,5.5s
IDC II 10 14 39 28.1–.38 4.16N 123.05E 527–4 6.4,5.5
BJI II 10 14 39 28.1 4.20N 123.20E 530 6.2b,6.2b
DJA II 10 14 39 28.3–.20 4N–2.0 123E–1.0 534–2 7.3,6.4b
NEIC II 10 14 39 28.0–.00 4.13N 123.02E 528 7.3,6.4b
ISC Event type fe.
MAN Event type fe. INTENSITY III - DAVAO CITY; INTENSITY II - GENERAL SANTOS CITY; KIDAPAWAN CITY.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s142,c358; s105,c186; Duration: 4s5 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.05±.04 $M_{\theta\theta}$1.49±.06; $M_{\phi\phi}$3.56±.07; $M_{r\theta}$-2.21±.06; $M_{\theta\phi}$2.00±.06; $M_{\phi r}$-5.52±.06; Best double couple: NP1:ϕ_s24.00000°,δ70.00000°,λ-95.00000°. NP2:ϕ_s217.00000°,δ20.00000°,λ-78.00000°. Principal axes: T 7.5380,Plg25.0000°,Azm118.0000°; N 0.3460,Plg4.0000°,Azm26.0000°; P -7.8840,Plg64.0000°,Azm287.0000° $M_0$7.71100×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=59.0. Felt [III] at Labuha and on Pulau Ternate, Indonesia. Felt [III PIVS] at Davao and [II PIVS] at General Santos and Kidapawan, Philippines. Also felt at Panabo. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.92 $M_{\theta\theta}$1.64 $M_{\phi\phi}$3.27 $M_{r\theta}$-2.79 $M_{\theta\phi}$3.13 $M_{\phi r}$-5.82 Best double couple: NP1:ϕ_s28.00000°,δ71.00000°,λ-98.00000°. NP2:ϕ_s230.00000°,δ21.00000°,λ-69.00000°. Principal axes: T 8.6600,Plg25.0000°,Azm124.0000°; N -0.6100,Plg7.0000°,Azm30.0000°; P -8.0700,Plg64.0000°,Azm286.0000° $M_0$8.40000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=148.8.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=116.7.
IDC Error ellipse: s-maj=6.4km s-min=4.7km az=64.0.
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.59 $M_{\theta\theta}$1.19 $M_{\phi\phi}$3.39 $M_{r\theta}$-2.18 $M_{\theta\phi}$1.44 $M_{\phi r}$-4.61 Best double couple: NP1:ϕ_s25.00000°,δ69.00000°,λ-90.00000°. NP2:ϕ_s206.00000°,δ20.00000°,λ-88.00000°. Principal axes: T 6.4600,Plg25.0000°,Azm116.0000°; N 0.4800,Plg0.0000°,Azm26.0000°; P -6.9400,Plg65.0000°,Azm295.0000° $M_0$6.70000×10^{18}

(262) Celebes Sea

ISC II 10 14 41 59.6–.24 4.05N–.02 123.03E–.03 531–2 6.2b 1885 3-176
KLM II 10 14 41 48.1 4.14N 122.98E 346 7.6s,6.5b **¶16020160**
BJI II 10 14 41 58.8 4.05N 123.15E 520 6.4b,6.4b

NEIC II 10 14 41 58.8–.15 4.08N 123.04E 525 6.6W,6.3b
MOS II 10 14 41 58.8–1.0 4.12N 123.04E 527 6.2b,5.6s
GCMT II 10 14 41 58.8–.20 4.22N 123.28E 518–1 6.5W,5.6s
ISCJB II 10 14 41 59.3–.22 4.10N–.02 123.07E–.02 534–2 6.2b,5.6s
MAN II 10 14 41 59 4.10N 123.28E 552 6.5b,6.5s
IDC II 10 14 42 00.2–.37 4.05N 123.02E 528–3 6.4,5.5
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.6km az=65.0. Felt at Manado and on Pulau Ternate, Indonesia. Felt [III] at Davao, Philippines. Also felt at General Santos and Panabo. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.06 $M_{\theta\theta}$1.95 $M_{\phi\phi}$2.11 $M_{r\theta}$-0.83 $M_{\theta\phi}$1.05 $M_{\phi r}$-7.98 Best double couple: NP1:ϕ_s9.00000°,δ79.00000° ,λ-97.00000°. NP2:ϕ_s222.00000°,δ13.00000°,λ-59.00000°. Principal axes: T 7.8800,Plg34.0000°,Azm105.0000°; N 1.6500,Plg7.0000°,Azm11.0000° ; P -9.5300,Plg56.0000°,Azm271.0000° $M_0$8.80000×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=4.3km az=120.3.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c148; s75,c113; Duration: 4s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.62±.09 $M_{\theta\theta}$0.83±.13; $M_{\phi\phi}$-1.45±.12; $M_{r\theta}$-1.47±.12; $M_{\theta\phi}$-0.12±.11; $M_{\phi r}$-7.01±.09; Best double couple: NP1:ϕ_s192.00000° ,δ86.00000°,λ93.00000°. NP2:ϕ_s337.00000°,δ5.00000°,λ55.00000°. Principal axes: T 6.8480,Plg49.0000°,Azm105.0000°; N 0.7840,Plg3.0000°,Azm12.0000° ; P -7.6350,Plg41.0000°,Azm280.0000° $M_0$7.24200×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=143.9.
IDC Error ellipse: s-maj=6.4km s-min=4.7km az=59.0.

(171) South of Fiji Islands

ISC	**II**	**10 16 41 08.0–.42**	**24.15S–.06**	**179.96W–.08**	**518**	**4.5b**	**129**	**5-169**
BJI	II	10 16 41 04.0	24.10S	180.00W	490	5.1b,4.5b		**¶16022181**
ISCJB	II	10 16 41 07.3–.22	24.06S–.03	179.92E–.05	518	4.4b,4.5b		
NEIC	II	10 16 41 08.0–1.1	24.08S	179.97W	521–14	4.7b,4.5b		
IDC	II	10 16 41 07.9–1.4	23.88S	179.93E	508–13	4.4,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=17.2.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.1km az=168.0.
IDC Error ellipse: s-maj=20.2km s-min=12.2km az=155.0.

(171) South of Fiji Islands

ISC	**II**	**10 22 02 23.9–.40**	**23.47S–.05**	**179.79W–.05**	**549–4**	**4.7b**	**449**	**6-175**
BJI	II	10 22 02 20.5	23.35S	179.40W	534	5.1b,4.7b		**¶16020422**
ISCJB	II	10 22 02 21.6–.62	23.41S–.03	179.87W–.04	524–7	4.7b,4.7b		
MOS	II	10 22 02 22.1–1.1	23.29S	179.85W	529	4.6b,4.7b		
NEIC	II	10 22 02 25.0–.16	23.42S	179.83W	561	4.9b,4.7b		
IDC	II	10 22 02 24.3–.65	23.38S	179.82W	548–6	4.9,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=30.0.
MOS Error ellipse: s-maj=10.8km s-min=9.8km az=166.9.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=127.0.
IDC Error ellipse: s-maj=10.0km s-min=8.9km az=108.0.

(181) Fiji Islands region

ISC	**II**	**11 01 29 26.2–.47**	**15.11S–.05**	**177.59W–.04**	**359–4**	**4.9b**	**914**	**6-178**
MOS	II	11 01 29 24.3–1.3	14.97S	177.68W	346	5.0b		**¶16020428**
ISCJB	II	11 01 29 24.3–.69	15.04S–.04	177.67W–.02	344–6	4.8b		
IDC	II	11 01 29 25.2–1.0	15.08S	177.60W	348–10	5.0,4.4		
NEIC	II	11 01 29 26.5–.46	15.04S	177.70W	356–4	4.8b,4.4		
GCMT	II	11 01 29 26.5–.50	14.90S	177.52W	365–3	5.2W,4.4		
BJI	II	11 01 29 26.2	14.48S	177.43W	353	5.0b,4.8b		

ISC Event type se.
MOS Error ellipse: s-maj=8.5km s-min=7.3km az=142.1.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.2km az=158.9.
IDC Error ellipse: s-maj=10.1km s-min=6.8km az=143.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=143.0.
GCMT Error ellipse: s-maj=4.4km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=50s. Moment Tensor Solution. s55,c68;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.25±.37 $M_{\theta\theta}$-1.28±.72; $M_{\phi\phi}$5.53±.53; $M_{r\theta}$-2.11±.58; $M_{\theta\phi}$1.46±.54; $M_{\phi r}$-4.67±.49; Best double couple: NP1:ϕ_s23.00000°,δ68.00000°,λ-79.00000°. NP2:ϕ_s175.00000°,δ24.00000°,λ-115.00000°. Principal axes: T 7.9080,Plg23.0000°,Azm104.0000°; N -1.3790,Plg10.0000°,Azm199.0000° ; P -6.5290,Plg65.0000°,Azm311.0000° $M_0$7.21900×10^{16}

(171) South of Fiji Islands

ISC	**II**	**11 03 31 31.3–.43**	**23.48S–.05**	**179.80W–.06**	**555–4**	**4.9b**	**473**	**6-170**
MOS	II	11 03 31 29.4–1.2	23.26S	179.88W	536	4.7b		**¶16020433**
ISCJB	II	11 03 31 31.1–.55	23.50S–.03	179.89W–.03	560–7	4.7b		
BJI	II	11 03 31 31.2	23.56S	179.92W	562	5.2b,4.7b		
IDC	II	11 03 31 31.6–.51	23.36S	179.82W	554–5	4.8,4.2		
NEIC	II	11 03 31 32.1–.47	23.39S	179.90W	560–5	5.0b,4.2		

ISC Event type se.
MOS Error ellipse: s-maj=12.9km s-min=9.1km az=48.1.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=143.7.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=137.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=138.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**II**	**15 18 13 45.8–.31**	**1.76N–.04**	**124.14E–.05**	**323**	**4.5b**	**160**	**1-149**
BJI	II	15 18 13 43.6	1.80N	124.00E	300	4.7b,4.3b		**¶16339747**
KLM	II	15 18 13 44.0	1.73N	124.36E	301	5.5s,4.7b		
NEIC	II	15 18 13 44.6–.42	1.80N	124.02E	314–5	4.7b,4.7b		
ISCJB	II	15 18 13 44.3–.18	1.80N–.02	124.09E–.03	323	4.3b,4.7b		
IDC	II	15 18 13 45.8–1.2	1.76N	124.04E	326–12	4.6,4.0		
DJA	II	15 18 13 46.2–.20	2N–3.0	124E–2.0	303–3	5.1,5.0b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(181) Fiji Islands region

ISC	**II**	**16 15 55 59.8–.51**	**20.21S–.06**	**177.58W–.06**	**526–4**	**4.8b**	**350**	**5-173**
ISCJB	II	16 15 55 59.4–.63	20.19S–.04	177.66W–.05	524–8	4.7b		**¶16168864**
BJI	II	16 15 55 59.3	20.20S	177.60W	529	5.0b,4.7b		
NEIC	II	16 15 56 00.8–.69	20.19S	177.64W	533–7	5.0b,4.7b		
MOS	II	16 15 56 04.8–2.2	18.92S	178.45W	519	4.7b,4.7b		
IDC	II	16 15 56 04.3–1.7	20.29S	177.75W	570–19	4.9,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.3km az=19.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=110.0.
MOS Error ellipse: s-maj=13.4km s-min=10.9km az=178.4.
IDC Error ellipse: s-maj=12.9km s-min=9.6km az=144.0.

(181) Fiji Islands region

ISC	**II**	**16 21 34 16.2–.31**	**19.88S–.06**	**177.60W–.06**	**350**	**4.7b**	**395**	**8-173**
MOS	II	16 21 34 08.0–2.0	19.54S	177.71W	256	5.0b		**¶16029813**
NEIC	II	16 21 34 14.8–1.0	19.84S	177.67W	328–10	4.8b		
IDC	II	16 21 34 14.1–1.2	19.88S	177.61W	323–11	4.8,4.3		
ISCJB	II	16 21 34 15.8–.14	19.90S–.04	177.72W–.04	350	4.7b,4.3		
BJI	II	16 21 34 18.7	19.90S	177.60W	378	5.1b,4.5b		

ISC Event type se.
MOS Error ellipse: s-maj=10.0km s-min=9.1km az=148.8.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.6km az=145.0.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.7km az=136.6.

(181) Fiji Islands region

ISC	**II**	**19 08 55 21.2–.32**	**16.87S–.07**	**177.31W–.06**	**403**	**4.7b**	**306**	**6-176**
BJI	II	19 08 55 19.8	16.90S	177.40W	394	5.1b,4.8b		**¶16032639**
ISCJB	II	19 08 55 20.4–.19	16.91S–.04	177.45W–.04	403	4.6b,4.8b		
IDC	II	19 08 55 20.8–1.2	17.04S	177.27W	402–12	4.7,4.1		
NEIC	II	19 08 55 21.0–.66	16.89S	177.41W	397–6	4.7b,4.1		
MOS	II	19 08 55 21.9–.97	16.76S	177.55W	411	4.8b,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=44.1.
IDC Error ellipse: s-maj=11.8km s-min=8.8km az=147.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=135.0.
MOS Error ellipse: s-maj=11.3km s-min=10.2km az=165.1.

(171) South of Fiji Islands

ISC	**II**	**21 10 57 51.8–.20**	**26.04S–.03**	**178.48E–.03**	**552–1**	**6.3b**	**2836**	**5-173**
MOS	II	21 10 57 49.6–.89	25.97S	178.41E	529	6.3b		**¶16245260**
ISCJB	II	21 10 57 51.0–.30	26.10S–.02	178.38E–.02	550–4	6.3b		
BJI	II	21 10 57 50.7	25.95S	178.35E	540	6.2b,6.2b		
NEIC	II	21 10 57 51.0–.00	26.08S	178.44E	540	6.2b,6.2b		
GCMT	II	21 10 57 52.4–.10	25.95S	178.47E	568–0	6.5W,6.2b		
NEIC	II	21 10 57 52.4–.35	26.14S	178.39E	558–4	6.6W,6.5W		
IDC	II	21 10 57 52.3–.37	26.07S	178.44E	552–3	6.4,5.6		

ISC Event type se.
MOS Error ellipse: s-maj=7.7km s-min=6.3km az=68.2.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=169.2.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.02 $M_{\theta\theta}$0.84 $M_{\phi\phi}$1.17 $M_{r\theta}$-1.77 $M_{\theta\phi}$-2.15 $M_{\phi r}$6.01 Best double couple: NP1:ϕ_s162.00000° ,δ80.00000°,λ-76.00000°. NP2:ϕ_s286.00000°,δ17.00000°,λ-145.00000°. Principal axes: T 7.0500,Plg33.0000°,Azm240.0000°; N -0.4100,Plg13.0000°,Azm339.0000° ; P -6.6400,Plg52.0000°,Azm88.0000° $M_0$6.90000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s145,c351; s131,c228; Duration: 4s5 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.61±.03 $M_{\theta\theta}$1.50±.04; $M_{\phi\phi}$1.11±.04; $M_{r\theta}$-1.95±.04; $M_{\theta\phi}$-2.87±.04; $M_{\phi r}$6.71±.04; Best double couple: NP1:ϕ_s161.00000°,δ79.00000° ,λ-72.00000°. NP2:ϕ_s281.00000°,δ21.00000°,λ-148.00000°. Principal axes: T 8.0470,Plg32.0000°,Azm236.0000°; N -0.3300,Plg18.0000°,Azm338.0000° ; P -7.7170,Plg52.0000°,Azm92.0000° $M_0$7.88200×10^{18}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=151.0. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ18.00000°,λ-156.00000°. NP2: ϕ_s169.00000°,δ83.00000°,λ-73.00000°. Principal axes: T 1.1100,Plg36.0000°,Azm245.0000° ; N -0.2300,Plg17.0000°,Azm347.0000°; P -0.8800,Plg50.0000°,Azm97.0000°
IDC Error ellipse: s-maj=6.7km s-min=5.2km az=17.0.

(171) South of Fiji Islands

ISC	**II**	**21 11 02 51.5–.37**	**26.07S–.07**	**178.42E–.08**	**631**	**4.8b**	**163**	**5-173**
NEIC	II	21 11 02 49.6–.57	25.89S	178.34E	601–6	5.1b		**¶16168889**
IDC	II	21 11 02 49.0–.98	25.88S	178.37E	592–11	5.4,4.6		
ISCJB	II	21 11 02 50.9–.19	26.11S–.04	178.18E–.07	631	4.9b,4.6		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(181) Fiji Islands region

ISC	**II**	**24 18 32 00.5–.48**	**18.02S–.05**	**178.30W–.05**	**623–5**	**4.9b**	**548**	**3-175**
ISCJB	II	24 18 31 59.5–.43	18.09S–.04	178.40W–.03	619–6	4.9b		**¶16155427**
MOS	II	24 18 32 00.3–1.0	17.90S	178.47W	623	4.6b		
NEIC	II	24 18 32 01.4–.49	18.06S	178.42W	629–6	5.3b		
BJI	II	24 18 32 01.0	17.58S	178.39W	620	5.0b,4.9b		
IDC	II	24 18 32 01.4–1.1	18.03S	178.38W	632–13	5.0,4.2		
GCMT	II	24 18 32 01.4–.40	17.92S	178.20W	648–4	5.2W,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.5km az=154.5.
MOS Error ellipse: s-maj=10.0km s-min=8.1km az=151.1.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=145.0.
IDC Error ellipse: s-maj=11.3km s-min=8.4km az=154.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s56,c78;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.46±.04 $M_{\theta\theta}$0.89±.05; $M_{\phi\phi}$-0.42±.05; $M_{r\theta}$-0.01±.05; $M_{\theta\phi}$0.46±.06; $M_{\phi r}$-0.04±.06; Best double couple: NP1:ϕ_s29.00000°,δ79.00000°,λ-167.00000°. NP2:ϕ_s296.00000°,δ77.00000°,λ-12.00000°. Principal axes: T 1.0290,Plg1.0000°,Azm163.0000°; N -0.4540,Plg73.0000°,Azm69.0000° ; P -0.5750,Plg17.0000°,Azm253.0000° $M_0$0.80200×10^{17}

(181) Fiji Islands region

ISC	**II**	**26 16 03 12.2–.79**	**16.05S–.08**	**176.38W–.06**	**361–8**	**4.8b**	**477**	**5-177**
ISCJB	II	26 16 03 11.7–.67	16.03S–.06	176.47W–.04	364–6	4.7b		**¶16160470**
IDC	II	26 16 03 11.5–1.0	16.10S	176.34W	355–10	4.7,4.3		
BJI	II	26 16 03 11.8	15.95S	176.41W	361	5.1b,4.6b		
NEIC	II	26 16 03 12.4–.99	16.02S	176.45W	364–10	4.8b,4.6b		
MOS	II	26 16 03 12.2–1.2	15.91S	176.43W	367	4.9b,4.6b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=3.9km az=151.7.
IDC Error ellipse: s-maj=17.2km s-min=8.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=4.7km az=148.0.
MOS Error ellipse: s-maj=11.4km s-min=9.2km az=140.7.

(259) Mindanao

ISC	**II**	**26 21 02 19.9–.78**	**6.50N–.07**	**123.83E–.09**	**574–9**	**4.2b**	**123**	**5-119**
MAN	II	26 21 02 15	6.26N	123.72E	592	5.1b,4.3s		**¶16160476**
BJI	II	26 21 02 17.6	6.38N	123.78E	568	4.7b,4.3b		
NEIC	II	26 21 02 18.3–.40	6.61N	123.92E	550–5	4.2b,4.3b		
ISCJB	II	26 21 02 19.7–.56	6.49N–.05	123.80E–.06	592–8	4.2b,4.3b		
DJA	II	26 21 02 20.7–.70	7N–8.0	124E–6.0	577–6	4.8b,4.8		
IDC	II	26 21 02 20.8–1.2	6.52N	123.81E	590–15	4.3,3.4		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.5km az=146.4.
IDC Error ellipse: s-maj=23.0km s-min=6.6km az=66.0.

(171) South of Fiji Islands

ISC	**II**	**28 23 22 33.0–.54**	**22.3S–.10**	**179.51W–.10**	**579**	**4.4b**	**150**	**32-171**
ISCJB	II	28 23 22 32.5–.63	22.1S–.20	179.6W–.10	579	4.3b		**¶16168323**
IDC	II	28 23 22 32.3–1.6	22.16S	179.46W	568–15	4.6,3.9		
BJI	II	28 23 22 32.5	22.16S	178.90W	601	5.1b,4.5b		
MOS	II	28 23 22 44.3–1.4	20.75S	178.77E	610	4.5b,4.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=10.2km az=158.3.
IDC Error ellipse: s-maj=19.6km s-min=12.0km az=152.0.
MOS Error ellipse: s-maj=18.6km s-min=14.7km az=38.6.

(171) South of Fiji Islands

ISC	**III**	**04 20 33 16.0–.52**	**23.71S–.06**	**179.76W–.07**	**578–5**	**4.5b**	**342**	**6-169**
MOS	III	04 20 33 12.5–3.0	22.81S	179.94E	495	4.8b		**¶16196739**
BJI	III	04 20 33 13.9	23.08S	179.41W	561	5.0b,4.6b		
ISCJB	III	04 20 33 14.8–.18	23.55S–.03	179.93W–.05	570	4.5b,4.6b		
NEIC	III	04 20 33 14.9–.78	23.55S	179.84W	563–9	4.7b,4.6b		
IDC	III	04 20 33 18.8–1.8	23.53S	179.97W	603–21	4.6,3.8		

ISC Event type se.
MOS Error ellipse: s-maj=14.9km s-min=13.1km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.2km az=13.3.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=172.0.
IDC Error ellipse: s-maj=14.9km s-min=10.9km az=163.0.

(280) Banda Sea

ISC	**III**	**09 09 12 05.1–.50**	**6.77S–.06**	**127.44E–.07**	**400**	**4.0b**	**37**	**3-109**
ISCJB	III	09 09 12 04.4–.34	6.73S–.04	127.44E–.06	400	3.9b		**¶17193536**
DJA	III	09 09 12 05.2–.70	7S–5.0	127E–6.0	418–12	5.2b,4.8b		
IDC	III	09 09 12 06.2–1.4	6.83S	127.31E	416–18	4.4,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=3.6.
IDC Error ellipse: s-maj=20.1km s-min=10.0km az=70.0.

(278) Bali Sea

ISC	**III**	**10 17 08 37.3–.19**	**6.86S–.02**	**116.73E–.02**	**519–1**	**6.2b**	**2684**	**2-173**
MOS	III	10 17 08 35.4–.89	6.81S	116.80E	506	6.3b,5.7s		**¶16298996**
BJI	III	10 17 08 36.4	6.85S	116.75E	520	6.2b,5.9b		
GCMT	III	10 17 08 36.9–.10	6.95S	116.71E	517–0	6.6W,5.9b		
NEIC	III	10 17 08 36.9–.28	6.87S	116.72E	511–3	6.5W,6.2b		
DJA	III	10 17 08 36.6–.10	7S–2.0	117E–1.0	519–2	7.0,6.4b		
ISCJB	III	10 17 08 36.4–.15	6.91S–.02	116.78E–.01	522–1	6.1b,6.4b		
NEIC	III	10 17 08 36.0–.00	7.10S	116.79E	510	6.1b,6.4b		
IDC	III	10 17 08 37.2–.27	6.82S	116.81E	511–2	6.5,5.6		

ISC Event type fe.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=113.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s147,c381; s140,c260; Duration: 4s8 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.92±.00 $M_{\theta\theta}$0.94±.01; $M_{\phi\phi}$-0.02±.01; $M_{r\theta}$-0.19±.01; $M_{\theta\phi}$-0.10±.01; $M_{\phi r}$-0.18±.01; Best double couple: NP1:ϕ_s84.00000°,δ51.00000° ,λ-105.00000°. NP2:ϕ_s288.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 0.9700,Plg5.0000°,Azm185.0000°; N 0.0040,Plg12.0000°,Azm94.0000° ; P -0.9740,Plg77.0000°,Azm298.0000° $M_0$0.97200×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.1km az=217.0. Felt [IV] at Denpasar and [III] at Kuta, Tabanan and Ubud, Bali. Also felt at Karangasem and Singaraja. Felt [III] at Mataram, Lombok. Felt at Blitar, Jember and Sidoarjo, Java. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ40.00000° ,λ-90.00000°. NP2:ϕ_s85.00000°,δ50.00000°,λ-90.00000°. Principal axes: T Plg5.0000° ,Azm175.0000°; N Plg0.0000°,Azm0.0000°; P Plg85.0000°,Azm355.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=34.7.

NEIC Event type se. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}-7.92 $M_{\theta\theta}$7.94 $M_{\phi\phi}$-0.02 $M_{r\theta}$-1.63 $M_{\theta\phi}$-0.43 $M_{\phi r}$-1.61 Best double couple: NP1:ϕ_s82.00000° ,δ52.00000°,λ-104.00000°. NP2:ϕ_s284.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 8.1100,Plg5.0000°,Azm181.0000°; N 0.2900,Plg11.0000°,Azm90.0000° ; P -8.4100,Plg77.0000°,Azm297.0000° M_o8.30000×10^{18}
IDC Error ellipse: s-maj=5.3km s-min=4.4km az=47.0.

(220) Northwest of Kuril Islands

ISC	**III**	**12 00 33 28.8–.54**	**48.19N–.07**	**148.98E–.09**	**367**	**3.9b**	**35**	**3-79**
MOS	III	12 00 33 28.9–1.3	48.26N	148.92E	386	4.0b		**¶17194188**
ISCJB	III	12 00 33 28.6–.40	48.30N–.06	149.1E–.10	367	3.8b		
SKHL	III	12 00 33 29.8–.80	48.10N	148.98E	381–2	5.0s,4.7b		
IDC	III	12 00 33 31.5–1.9	48.38N	148.69E	394–22	4.2,3.6		

ISC Event type ke.
MOS Error ellipse: s-maj=24.1km s-min=10.5km az=75.4.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.1km az=34.0.
IDC Error ellipse: s-maj=16.6km s-min=9.9km az=133.0.

(279) Flores Sea

ISC	**III**	**14 09 21 03.7–.43**	**7.43S–.05**	**120.19E–.06**	**564–4**	**4.6b**	**194**	**1-155**
BJI	III	14 09 21 02.8	7.30S	120.30E	562	4.8b,4.7b		**¶16314286**
NEIC	III	14 09 21 03.7–.26	7.33S	120.20E	564–3	4.7b,4.7b		
ISCJB	III	14 09 21 03.1–.21	7.35S–.04	120.23E–.04	576–3	4.6b,4.7b		
DJA	III	14 09 21 04.1–.10	7S–3.0	120E–2.0	570–3	5.2b,5.0		
IDC	III	14 09 21 04.3–.46	7.27S	120.24E	569–5	5.0,4.2		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.0km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.6km az=136.3.
IDC Error ellipse: s-maj=11.9km s-min=6.3km az=64.0.

(181) Fiji Islands region

ISC	**III**	**16 14 01 52.5–.35**	**18.97S–.07**	**177.61W–.07**	**570**	**4.5b**	**225**	**4-174**
ISCJB	III	16 14 01 52.1–.20	18.88S–.05	177.65W–.04	570	4.5b		**¶16461841**
BJI	III	16 14 01 53.9	19.31S	177.52W	622	5.0b,4.6b		
NEIC	III	16 14 01 56.5–.53	18.89S	177.69W	618–6	4.6b,4.6b		
IDC	III	16 14 01 56.4–1.1	18.87S	177.68W	616–13	4.8,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=141.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=4.9km az=150.0.
IDC Error ellipse: s-maj=12.0km s-min=8.4km az=156.0.

(177) Kermadec Islands region

ISC	**III**	**20 15 20 28.0–.37**	**31.12S–.04**	**179.65W–.04**	**316–3**	**5.2b**	**1233**	**7-175**
BJI	III	20 15 20 25.6	30.82S	179.15W	315	5.1b,4.8b		**¶16339595**
ISCJB	III	20 15 20 25.2–.46	31.02S–.03	179.78W–.03	292–5	5.1b,4.8b		
MOS	III	20 15 20 26.9–.95	30.94S	179.65W	315	5.4b,4.8b		
NEIC	III	20 15 20 28.3–.10	31.13S	179.82W	321	5.2b,4.8b		
GCMT	III	20 15 20 28.3–.20	30.90S	179.66W	329–0	5.7W,4.8b		
IDC	III	20 15 20 29.1–.90	30.93S	179.76W	322–7	5.3,4.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.0km az=167.2.
MOS Error ellipse: s-maj=16.1km s-min=14.2km az=145.6.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s106,c202;Duration: 1ŝ6 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.83±.06 $M_{\theta\theta}$-0.48±.10; $M_{\phi\phi}$3.31±.09; $M_{r\theta}$-1.74±.08; $M_{\theta\phi}$1.42±.08; $M_{\phi r}$0.59±.08; Best double couple: NP1:ϕ_s171.00000°,δ53.00000°,λ-131.00000°. NP2:ϕ_s46.00000° ,δ53.00000°,λ-49.00000°. Principal axes: T 3.7830,Plg0.0000°,Azm288.0000° ; N 0.1670,Plg31.0000°,Azm198.0000°; P -3.9550,Plg59.0000°,Azm18.0000° M_o3.86900×10^{17}
IDC Error ellipse: s-maj=10.8km s-min=8.9km az=163.0.

(171) South of Fiji Islands

ISC	**III**	**20 19 46 54.1–.52**	**25.24S–.06**	**179.77E–.06**	**495–4**	**4.7b**	**241**	**8-168**
IDC	III	20 19 46 52.7–1.1	25.25S	179.78E	478–10	4.8,4.1		**¶16462028**
ISCJB	III	20 19 46 52.2–.99	25.29S–.06	179.69E–.04	476–11	4.6b,4.1		
MOS	III	20 19 46 53.7–.80	25.17S	179.59E	491	5.4b,4.1		
NEIC	III	20 19 46 54.1–.91	25.26S	179.65E	491–10	5.0b,4.1		
BJI	III	20 19 46 55.9	25.10S	179.50E	513	4.9b,4.7b		

ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.0km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=163.1.
MOS Error ellipse: s-maj=12.7km s-min=11.4km az=169.5.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.9km az=162.0.

(280) Banda Sea

ISC	**III**	**21 15 22 21.0–.31**	**5.92S–.04**	**127.21E–.05**	**450**	**4.5b**	**228**	**3-127**
BJI	III	21 15 22 19.1	5.90S	127.20E	442	4.5b,4.3b		**¶16447670**
IDC	III	21 15 22 20.8–1.1	5.89S	127.14E	446–14	4.8,4.0		
ISCJB	III	21 15 22 20.2–.16	5.89S–.02	127.21E–.02	450	4.5b,4.0		
KLM	III	21 15 22 20.6	6.17S	127.26E	427	5.8s,5.2b		
DJA	III	21 15 22 21.5–.20	6S–3.0	127E–2.0	440–3	5.2,5.0b		
NEIC	III	21 15 22 21.1–.26	5.90S	127.18E	452–3	4.7b,5.0b		

ISC Event type se.
IDC Error ellipse: s-maj=10.5km s-min=8.5km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.9km az=144.9.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=217.0.

(181) Fiji Islands region

ISC	**III**	**23 14 14 40.2–.42**	**21.01S–.04**	**178.55W–.05**	**583–4**	**5.0b**	**1082**	**5-176**
ISCJB	III	23 14 14 36.6–.63	20.91S–.03	178.64W–.03	545–8	5.0b		**¶600018278**
BJI	III	23 14 14 39.4	20.84S	178.41W	588	5.2b,5.1b		
MOS	III	23 14 14 39.6–.77	20.82S	178.72W	580	5.0b,5.1b		
GCMT	III	23 14 14 40.1–.50	20.74S	178.63W	576–3	5.3W,5.1b		
NEIC	III	23 14 14 40.1–.46	20.91S	178.69W	579–5	5.1b,5.1b		
IDC	III	23 14 14 41.2–.65	20.89S	178.67W	586–7	5.3,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=157.8.
MOS Error ellipse: s-maj=9.3km s-min=7.8km az=54.5.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s60,c84;Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.04 $M_{\theta\theta}$0.55±.07; $M_{\phi\phi}$0.16±.07; $M_{r\theta}$-0.67±.07; $M_{\theta\phi}$0.53±.07; $M_{\phi r}$-0.33±.07; Best double couple: NP1:ϕ_s62.00000°,δ66.00000°,λ-83.00000°. NP2:ϕ_s225.00000°,δ25.00000°,λ-106.00000°. Principal axes: T 1.2070,Plg21.0000°,Azm147.0000°; N -0.1950,Plg6.0000°,Azm239.0000° ; P -1.0120,Plg68.0000°,Azm345.0000° M_o1.10900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=148.0.
IDC Error ellipse: s-maj=9.9km s-min=7.3km az=147.0.

(171) South of Fiji Islands

ISC	**III**	**27 10 59 25.1–.41**	**24.05S–.04**	**180.00E–.04**	**516–4**	**5.0b**	**863**	**6-169**
ISCJB	III	27 10 59 23.0–.56	24.02S–.03	179.90E–.03	495–6	5.0b		**¶16459614**
IDC	III	27 10 59 24.0–.94	24.02S	179.98W	502–9	5.3,4.5		
MOS	III	27 10 59 24.1–.79	24.01S	179.91E	509	5.0b,4.5		
GCMT	III	27 10 59 25.9–.60	24.47S	179.97E	527–3	5.3W,4.5		
BJI	III	27 10 59 25.7	24.10S	179.90E	520	4.9b,4.7b		
NEIC	III	27 10 59 25.9–.37	24.08S	179.90E	523–4	5.0b,4.7b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=155.0.
IDC Error ellipse: s-maj=9.6km s-min=8.5km az=170.0.
MOS Error ellipse: s-maj=9.0km s-min=7.2km az=55.7.
GCMT Error ellipse: s-maj=5.6km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s52,c69;Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.04±.04 $M_{\theta\theta}$0.54±.08; $M_{\phi\phi}$-0.58±.06; $M_{r\theta}$0.01±.07; $M_{\theta\phi}$-0.79±.07; $M_{\phi r}$-0.74±.06; Best double couple: NP1:ϕ_s343.00000°,δ87.00000°,λ-36.00000°. NP2:ϕ_s75.00000°,δ54.00000°,λ-177.00000°. Principal axes: T 1.0970,Plg22.0000°,Azm35.0000°; N 0.2200,Plg54.0000°,Azm159.0000° ; P -1.3180,Plg27.0000°,Azm293.0000° M_o1.20700×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=142.0.

(280) Banda Sea

ISC	**III**	**30 22 48 24.2–.61**	**6.76S–.07**	**127.43E–.09**	**400**	**3.7b**	**19**	**4-81**
ISCJB	III	30 22 48 23.1–.47	6.74S–.05	127.39E–.08	400	3.6b		**¶17199236**
IDC	III	30 22 48 26.1–1.9	6.81S	127.35E	425–26	4.3,3.5		
DJA	III	30 22 48 29.4–.40	7S–3.0	127E–6.0	10	5.3b,5.2b		

ISC Event type ke.
ISCJB Event type ke.

(171) South of Fiji Islands

ISC	**IV**	**02 18 50 22.5–.45**	**24.48S–.05**	**179.71W–.05**	**483–4**	**4.8b**	**507**	**7-169**
BJI	IV	02 18 50 16.1	24.43S	179.03W	448	5.2b,4.7b		**¶16506159**
ISCJB	IV	02 18 50 21.5–.64	24.48S–.03	179.86W–.04	474–7	4.8b,4.7b		
NEIC	IV	02 18 50 22.6–.61	24.51S	179.69W	488–6	5.1b,4.7b		
MOS	IV	02 18 50 23.8–3.4	24.27S	179.85E	463	5.4b,4.7b		
IDC	IV	02 18 50 24.1–.95	24.37S	179.93W	491–8	4.9,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=14.3.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.9km az=113.0.
MOS Error ellipse: s-maj=13.4km s-min=11.2km az=21.5.
IDC Error ellipse: s-maj=10.7km s-min=9.7km az=117.0.

(181) Fiji Islands region

ISC	**IV**	**03 14 07 09.0–.20**	**17.61S–.03**	**178.53W–.03**	**547–1**	**6.1b**	**2878**	**3-176**
MOS	IV	03 14 07 06.9–.78	17.51S	178.58W	527	5.9b		**¶16506172**
ISCJB	IV	03 14 07 06.0–.43	17.63S–.02	178.59W–.02	520–5	6.0b		
IDC	IV	03 14 07 07.5–.59	17.56S	178.54W	525–5	6.2,5.4		
GCMT	IV	03 14 07 09.3–.10	17.65S	178.45W	562–0	6.4W,5.4		
NEIC	IV	03 14 07 09.0–.00	17.65S	178.58W	551	6.4W,5.4		
BJI	IV	03 14 07 09.3	17.50S	178.65W	550	6.1b,6.0b		
NEIC	IV	03 14 07 09.3–.07	17.64S	178.59W	552	6.4W,6.4W		

ISC Event type se.
MOS Error ellipse: s-maj=7.4km s-min=5.9km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=158.0.
IDC Error ellipse: s-maj=7.9km s-min=7.0km az=2.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s140,c337; s122,c194; Duration: 3ŝ9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.52±.02 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$-0.61±.03; $M_{r\theta}$-1.05±.03; $M_{\theta\phi}$-0.04±.03; $M_{\phi r}$-4.79±.02; Best double couple: NP1:ϕ_s192.00000° ,δ87.00000°,λ91.00000°. NP2:ϕ_s351.00000°,δ4.00000°,λ69.00000°. Principal axes: T 4.9000,Plg48.0000°,Azm104.0000°; N 0.0740,Plg1.0000°,Azm12.0000° ; P -4.9740,Plg42.0000°,Azm281.0000° M_o4.93700×10^{18}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{18}Nm; M_{rr}0.59 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-0.70 $M_{r\theta}$-1.03 $M_{\theta\phi}$0.11 $M_{\phi r}$-4.46 Best double couple: NP1:ϕ_s193.00000° ,δ86.00000°,λ93.00000°. NP2:ϕ_s330.00000°,δ5.00000°,λ48.00000°. Principal axes: T 4.6100,Plg48.0000°,Azm106.0000°; N 0.0200,Plg3.0000°,Azm12.0000° ; P -4.6300,Plg41.0000°,Azm279.0000° M_o4.60000×10^{18}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=141.0. Moment Tensor Solution. s86 Moment tensor: Scale 10^{18}Nm; M_{rr}0.24 $M_{\theta\theta}$0.43 $M_{\phi\phi}$-0.66 $M_{r\theta}$-1.04 $M_{\theta\phi}$0.69 $M_{\phi r}$-5.29 Best double couple: NP1:ϕ_s191.00000°,δ88.00000°,λ99.00000°. NP2:ϕ_s291.00000° ,δ9.00000°,λ10.00000°. Principal axes: T 5.4000,Plg46.0000°,Azm110.0000° ; N 0.1300,Plg9.0000°,Azm11.0000°; P -5.5300,Plg43.0000°,Azm273.0000° M_o5.50000×10^{18}

(181) Fiji Islands region

ISC	**IV**	**05 04 10 07.3–.25**	**17.64S–.04**	**178.53W–.03**	**552–2**	**5.0b**	**1351**	**3-176**
ISCJB	IV	05 04 10 05.7–.44	17.66S–.03	178.57W–.02	544–5	5.0b		**¶16408846**
MOS	IV	05 04 10 07.6–.97	17.56S	178.60W	559	4.9b		
NEIC	IV	05 04 10 07.2–.08	17.66S	178.60W	552	5.8W,5.0b		
GCMT	IV	05 04 10 07.2–.20	17.68S	178.39W	568–1	5.7W,5.0b		
IDC	IV	05 04 10 08.0–.43	17.64S	178.56W	556–4	5.5,4.7		
BJI	IV	05 04 10 09.3	17.30S	178.90W	560	5.2b,5.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.8km az=159.0.
MOS Error ellipse: s-maj=8.2km s-min=7.0km az=52.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=145.0. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}0.31 $M_{\theta\theta}$1.63 $M_{\phi\phi}$-1.94 $M_{r\theta}$-0.90 $M_{\theta\phi}$1.21 $M_{\phi r}$-4.88 Best double couple: NP1:ϕ_s195.00000°,δ86.00000°,λ111.00000°. NP2:ϕ_s294.00000° ,δ21.00000°,λ10.00000°. Principal axes: T 4.8500,Plg45.0000°,Azm126.0000° ; N 0.9900,Plg21.0000°,Azm13.0000°; P -5.8400,Plg38.0000°,Azm266.0000° M_o5.40000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s103,c172; s54,c54; Duration: 1ŝ7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57±.05 $M_{\theta\theta}$-0.22±.09; $M_{\phi\phi}$-0.35±.08; $M_{r\theta}$-0.52±.08; $M_{\theta\phi}$0.31±.07; $M_{\phi r}$-4.21±.07; Best double couple: NP1:ϕ_s186.00000°,δ87.00000° ,λ94.00000°. NP2:ϕ_s310.00000°,δ5.00000°,λ34.00000°. Principal axes: T 4.4240,Plg48.0000°,Azm101.0000°; N -0.2960,Plg4.0000°,Azm6.0000° ; P -4.1270,Plg42.0000°,Azm272.0000° M_o4.27600×10^{17}
IDC Error ellipse: s-maj=8.2km s-min=7.0km az=160.0.

(171) South of Fiji Islands

ISC	**IV**	**10 16 18 18.9–.38**	**23.63S–.04**	**179.95E–.04**	**528–3**	**4.8b**	**755**	**6-175**
ISCJB	IV	10 16 18 18.0–.47	23.65S–.03	179.83E–.02	521–5	4.8b		**¶16416048**
MOS	IV	10 16 18 17.9–.92	23.59S	179.85E	519	4.9b		
GCMT	IV	10 16 18 18.5–.60	23.57S	179.91E	534–3	5.3W		
IDC	IV	10 16 18 18.8–.60	23.61S	179.85E	521–6	5.2,4.4		
NEIC	IV	10 16 18 18.4–.10	23.60S	179.84E	518	5.0b,4.4		
BJI	IV	10 16 18 18.4	23.60S	179.80E	523	4.9b,4.8b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=164.0.
MOS Error ellipse: s-maj=9.2km s-min=9.1km az=3.8.
GCMT Error ellipse: s-maj=5.6km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s50,c69;Duration: 1ŝ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10±.04 $M_{\theta\theta}$-0.16±.07; $M_{\phi\phi}$0.06±.07; $M_{r\theta}$-0.18±.06; $M_{\theta\phi}$-0.70±.05; $M_{\phi r}$-0.69±.06; Best double couple: NP1:ϕ_s188.00000°,δ87.00000°,λ46.00000°. NP2:ϕ_s96.00000°,δ44.00000°,λ176.00000°. Principal axes: T 0.9210,Plg33.0000°,Azm62.0000°; N 0.1500,Plg44.0000°,Azm191.0000° ; P -1.0710,Plg28.0000°,Azm312.0000° M_o0.99600×10^{17}
IDC Error ellipse: s-maj=9.9km s-min=7.4km az=175.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.0km az=149.0.

(181) Fiji Islands region

ISC	**IV**	**11 02 01 19.5–.35**	**17.76S–.05**	**178.39W–.05**	**538–3**	**5.0b**	**437**	**3-175**
ISCJB	IV	11 02 01 16.1–.58	17.80S–.03	178.50W–.04	504–7	4.9b		**¶16706349**
IDC	IV	11 02 01 18.8–.51	17.81S	178.47W	525–5	4.9,4.2		
GCMT	IV	11 02 01 19.3–.30	17.93S	178.42W	539–2	5.4W,4.2		
BJI	IV	11 02 01 19.0	17.67S	178.57W	529	4.8b,4.7b		
NEIC	IV	11 02 01 19.3–.17	17.80S	178.50W	533	5.2b,4.7b		
MOS	IV	11 02 01 20.8–1.6	17.69S	178.64W	544	4.6b,4.7b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=32.0.
IDC Error ellipse: s-maj=10.0km s-min=8.4km az=127.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s67,c87;Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.26±.04 $M_{\theta\theta}$0.94±.07; $M_{\phi\phi}$-1.20±.06; $M_{r\theta}$-0.47±.07; $M_{\theta\phi}$0.45±.05; $M_{\phi r}$-0.61±.06; Best double couple: NP1:ϕ_s210.00000°,δ82.00000°,λ145.00000°. NP2:ϕ_s306.00000°,δ56.00000°,λ9.00000°. Principal axes: T 1.3610,Plg30.0000°,Azm162.0000°; N 0.0860,Plg54.0000°,Azm19.0000° ; P -1.4520,Plg18.0000°,Azm263.0000° M_o1.40700×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=114.0.
MOS Error ellipse: s-maj=10.1km s-min=9.3km az=21.0.

(280) Banda Sea

ISC	**IV**	**13 09 57 00.9–.26**	**4.62S–.03**	**126.71E–.04**	**400**	**4.6b**	**295**	**3-155**
BJI	IV	13 09 56 55.8	5.06S	127.05E	411	4.5b,4.5b		**¶16423587**
ISCJB	IV	13 09 56 59.7–.14	4.55S–.02	126.73E–.02	400	4.5b,4.5b		
IDC	IV	13 09 57 01.0–.68	4.63S	126.64E	400–7	5.0,4.3		
NEIC	IV	13 09 57 00.9–.32	4.61S	126.68E	402–3	4.7b,4.3		
MOS	IV	13 09 57 00.3–.78	4.58S	126.65E	413	4.6b,4.3		
DJA	IV	13 09 57 02.6–.40	5S–3.0	127E–3.0	382–9	5.2,5.2b		
KLM	IV	13 09 57 03.2	4.69S	126.73E	459	5.8s,4.9b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.6km az=164.6.
IDC Error ellipse: s-maj=9.3km s-min=5.7km az=77.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=63.0.
MOS Error ellipse: s-maj=11.3km s-min=5.7km az=110.4.

(277) Jawa

ISC	**IV**	**14 12 40 05.8–.42**	**6.20S–.07**	**112.93E–.07**	**590**	**4.2b**	**87**	**2-146**
ISCJB	IV	14 12 40 04.5–.23	6.27S–.04	112.88E–.04	590	4.2b		**¶16706885**
DJA	IV	14 12 40 04.2–1.0	6S–6.0	113E–3.0	611–14	5.2b,4.9b		
IDC	IV	14 12 40 05.9–1.2	6.10S	112.94E	587–14	4.7,3.7		
KLM	IV	14 12 40 05.6	6.31S	112.83E	578	5.5s,4.9b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=45.0.
IDC Error ellipse: s-maj=14.4km s-min=6.4km az=60.0.

(212) Bonin Islands region

ISC	**IV**	**16 09 20 26.5–.33**	**27.98N–.03**	**139.46E–.04**	**521–3**	**4.7b**	**762**	**3-158**
NIED	IV	16 09 20 00	27.90N	139.60E	540	5.0W		**¶601721538**
BJI	IV	16 09 20 23.0	27.83N	139.44E	490	5.1b,4.8b		
GCMT	IV	16 09 20 25.7–.50	27.88N	139.24E	517–4	5.2W,4.8b		
ISCJB	IV	16 09 20 25.8–.20	27.92N–.02	139.42E–.02	521–2	4.7b,4.8b		
NEIC	IV	16 09 20 25.7–.13	27.94N	139.40E	506	4.8b,4.8b		

JMA IV 16 09 20 25.3–.20 27.92N 139.59E 529–4 5.1,4.8b
IDC IV 16 09 20 26.9–.46 27.95N 139.39E 523–4 4.9,4.1
MOS IV 16 09 20 26.7–.95 27.98N 139.35E 533 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ57.00000°,λ-161.00000°. NP2:ϕ_s310.00000°,δ74.00000°,λ-34.00000°. $M_0$3.83000×10^{16}
GCMT Error ellipse: s-maj=7.8km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s53,c72;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.99±.30 $M_{\theta\theta}$4.95±.40; $M_{\phi\phi}$-2.96±.48; $M_{r\theta}$3.47±.57; $M_{\theta\phi}$-1.18±.37; $M_{\phi r}$-4.72±.40; Best double couple: NP1:ϕ_s317.00000°,δ81.00000°,λ-56.00000°. NP2:ϕ_s60.00000°,δ35.00000°,λ-163.00000°. Principal axes: T 7.3330,Plg28.0000°,Azm20.0000°; N 0.0750,Plg33.0000°,Azm130.0000° ; P -7.4080,Plg44.0000°,Azm260.0000° $M_0$7.37000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.4km az=141.7.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=7.7km s-min=5.6km az=82.0.
MOS Error ellipse: s-maj=7.7km s-min=4.4km az=105.1.

(132) Santiago del Estero Province

ISC	**IV**	**17 01 24 32.9–.27**	**27.61S–.03**	**63.34W–.04**	**566–2**	**5.1b**	**1429**	**2-175**
SJA	IV	17 01 24 27.3–1.2	27.77S	63.41W	596–12	5.7L,5.0W		**¶16442398**
ISCJB	IV	17 01 24 32.0–.23	27.56S–.02	63.23W–.03	557–2	5.1b,5.0W		
GCMT	IV	17 01 24 33.2–.20	27.57S	63.14W	585–1	5.4W,5.0W		
IDC	IV	17 01 24 33.4–.34	27.53S	63.23W	563–3	5.5,4.7		
NEIC	IV	17 01 24 33.2–.11	27.62S	63.19W	563	5.6,5.1b		
BJI	IV	17 01 24 33.4	27.60S	63.20W	565	5.1b,5.1b		
MOS	IV	17 01 24 34.3–.89	27.36S	63.20W	574	5.2b,5.1b		
GUC	IV	17 01 24 35.4–1.9	27.58S	63.83W	578–77	6.1W,5.1b		

ISC Event type se.
SJA Error ellipse: s-maj=9.7km s-min=11.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=145.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c149; s15,c15; Duration: 1♯3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.53±.04 $M_{\theta\theta}$0.44±.06; $M_{\phi\phi}$1.09±.07; $M_{r\theta}$-0.34±.06; $M_{\theta\phi}$-0.77±.05; $M_{\phi r}$0.84±.06; Best double couple: NP1:ϕ_s152.00000°,δ60.00000° ,λ-84.00000°. NP2:ϕ_s320.00000°,δ31.00000°,λ-100.00000°. Principal axes: T 1.8320,Plg15.0000°,Azm238.0000°; N -0.0520,Plg5.0000°,Azm329.0000° ; P -1.7800,Plg74.0000°,Azm78.0000° $M_0$1.80600×10^{17}
IDC Error ellipse: s-maj=7.9km s-min=6.0km az=57.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=58.0.
MOS Error ellipse: s-maj=10.9km s-min=6.4km az=106.9.
GUC Error ellipse: s-maj=7.6km s-min=61.7km az=-1.0.

(132) Santiago del Estero Province

ISC	**IV**	**17 01 58 49.5–.27**	**27.55S–.03**	**63.31W–.03**	**562–2**	**5.6b**	**1814**	**2-176**
SJA	IV	17 01 58 42.4–1.1	27.71S	63.14W	595–12	6.1L,5.5W		**¶16442401**
ISCJB	IV	17 01 58 48.7–.18	27.52S–.02	63.24W–.02	557–2	5.5b,5.5W		
GCMT	IV	17 01 58 49.3–.10	27.61S	63.11W	574–1	5.8W,5.5W		
IDC	IV	17 01 58 49.6–.32	27.52S	63.32W	559–3	5.8,5.0		
NEIC	IV	17 01 58 49.3–.10	27.60S	63.20W	557	5.9,5.9W		
BJI	IV	17 01 58 49.9	27.55S	63.15W	547	5.4b,5.9W		
MOS	IV	17 01 58 50.2–.86	27.43S	63.28W	568	5.5b,5.9W		
NEIC	IV	17 01 58 50.0–.00	27.59S	63.27W	566	5.5b,5.9W		
GUC	IV	17 01 58 51.2–1.8	27.54S	63.60W	556–55	5.9W,5.9W		

ISC Event type se.
SJA Error ellipse: s-maj=7.2km s-min=13.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.9km az=153.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s119,c221; s73,c77; Duration: 1♯9 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.78±.05 $M_{\theta\theta}$-0.98±.08; $M_{\phi\phi}$4.77±.10; $M_{r\theta}$-2.27±.08; $M_{\theta\phi}$0.01±.08; $M_{\phi r}$3.35±.08; Best double couple: NP1:ϕ_s157.00000°,δ68.00000° ,λ-112.00000°. NP2:ϕ_s24.00000°,δ31.00000°,λ-47.00000°. Principal axes: T 6.0080,Plg20.0000°,Azm263.0000°; N -0.1150,Plg20.0000°,Azm165.0000° ; P -5.8860,Plg61.0000°,Azm34.0000° $M_0$5.94700×10^{17}
IDC Error ellipse: s-maj=7.1km s-min=5.1km az=63.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=60.0. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.80 $M_{\theta\theta}$-0.46 $M_{\phi\phi}$6.26 $M_{r\theta}$-2.41 $M_{\theta\phi}$-0.54 $M_{\phi r}$4.05 Best double couple: NP1:ϕ_s11.00000°,δ29.00000°,λ-62.00000°. NP2:ϕ_s160.00000° ,δ64.00000°,λ-105.00000°. Principal axes: T 7.6900,Plg18.0000°,Azm261.0000° ; N 0.0000,Plg13.0000°,Azm166.0000°; P -7.6800,Plg67.0000°,Azm42.0000° $M_0$7.70000×10^{17}
MOS Error ellipse: s-maj=10.2km s-min=6.1km az=106.9.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.52 $M_{\theta\theta}$-1.23 $M_{\phi\phi}$4.75 $M_{r\theta}$-2.29 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.18 Best double couple: NP1:ϕ_s151.00000° ,δ65.00000°,λ-118.00000°. NP2:ϕ_s24.00000°,δ37.00000°,λ-44.00000°. Principal axes: T 5.4100,Plg15.0000°,Azm261.0000°; N -0.1700,Plg25.0000°,Azm164.0000° ; P -5.2400,Plg59.0000°,Azm19.0000° $M_0$5.30000×10^{17}
GUC Error ellipse: s-maj=5.5km s-min=37.8km az=-1.0.

(132) Santiago del Estero Province

ISC	**IV**	**17 02 37 13.1–.34**	**27.67S–.04**	**63.32W–.05**	**563–3**	**4.7b**	**1073**	**2-175**
SJA	IV	17 02 37 05.0–.86	27.69S	63.39W	620–16	5.5L,4.7W		**¶601129677**
BJI	IV	17 02 37 12.7	27.60S	63.30W	550	5.2b,4.7W		
GUC	IV	17 02 37 12.5–1.6	27.61S	63.28W	564	5.7W,4.7W		
ISCJB	IV	17 02 37 12.5–.22	27.64S–.02	63.31W–.03	565–2	4.7b,4.7W		
IDC	IV	17 02 37 13.6–.44	27.59S	63.28W	564–4	5.2,4.5		
NEIC	IV	17 02 37 13.2–.11	27.68S	63.24W	563	5.0,4.7b		
MOS	IV	17 02 37 14.1–.90	27.42S	63.21W	573	4.8b,4.7b		

ISC Event type ke.
SJA Error ellipse: s-maj=7.1km s-min=12.5km az=-1.0.
GUC Error ellipse: s-maj=8.9km s-min=22.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=161.2.
IDC Error ellipse: s-maj=10.0km s-min=6.9km az=48.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=57.0.
MOS Error ellipse: s-maj=12.9km s-min=7.2km az=107.1.

(181) Fiji Islands region

ISC	**IV**	**17 13 02 07.9–.27**	**20.32S–.04**	**178.66W–.04**	**610–2**	**4.9b**	**1103**	**4-173**
ISCJB	IV	17 13 02 05.8–.52	20.30S–.04	178.70W–.02	592–6	4.9b		**¶16505415**
MOS	IV	17 13 02 06.9–.88	20.22S	178.71W	605	5.0b		
GCMT	IV	17 13 02 08.1–.30	20.11S	178.85W	618–2	5.4W		
IDC	IV	17 13 02 08.5–.45	20.26S	178.74W	608–4	5.3,4.4		
NEIC	IV	17 13 02 08.1–.27	20.24S	178.71W	608–3	4.9b,4.4		
BJI	IV	17 13 02 08.4	20.00S	178.52W	622	5.0b,5.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.1km az=168.2.
MOS Error ellipse: s-maj=8.1km s-min=7.6km az=67.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s73,c104;Duration: 1♯2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.34±.03 $M_{\theta\theta}$0.19±.05; $M_{\phi\phi}$0.14±.05; $M_{r\theta}$-0.99±.05; $M_{\theta\phi}$-0.07±.04; $M_{\phi r}$-0.98±.05; Best double couple: NP1:ϕ_s46.00000°,δ86.00000°,λ-91.00000°. NP2:ϕ_s238.00000° ,δ5.00000°,λ-78.00000°. Principal axes: T 1.2930,Plg41.0000°,Azm137.0000° ; N 0.2390,Plg1.0000°,Azm46.0000°; P -1.5320,Plg49.0000°,Azm315.0000° $M_0$1.41200×10^{17}
IDC Error ellipse: s-maj=9.0km s-min=6.3km az=162.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=154.0.

(181) Fiji Islands region

ISC	**IV**	**19 15 30 08.9–.40**	**20.04S–.04**	**177.63W–.04**	**399–3**	**5.2b**	**1024**	**5-173**
MOS	IV	19 15 30 05.7–.97	19.86S	177.68W	370	5.1b		**¶16505441**
ISCJB	IV	19 15 30 06.3–.62	19.97S–.02	177.69W–.02	379–6	5.2b		
BJI	IV	19 15 30 08.6	19.72S	177.37W	406	5.2b,5.1b		
IDC	IV	19 15 30 08.8–1.2	20.00S	177.72W	392–12	5.3,4.8		
NEIC	IV	19 15 30 09.6–.10	20.00S	177.69W	406	5.0b,4.8		
GCMT	IV	19 15 30 09.6–.40	20.08S	177.76W	423–2	5.3W,4.8		

ISC Event type se.
MOS Error ellipse: s-maj=8.4km s-min=6.8km az=75.2.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=144.4.
IDC Error ellipse: s-maj=11.2km s-min=8.6km az=140.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.9km az=144.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s64,c110;Duration: 1♯1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.46±.03 $M_{\theta\theta}$-0.32±.05; $M_{\phi\phi}$0.78±.05; $M_{r\theta}$-0.97±.05; $M_{\theta\phi}$0.22±.04; $M_{\phi r}$-0.44±.05; Best double couple: NP1:ϕ_s51.00000°,δ79.00000°,λ-60.00000°. NP2:ϕ_s161.00000° ,δ32.00000°,λ-158.00000°. Principal axes: T 1.1560,Plg27.0000°,Azm118.0000° ; N 0.2170,Plg29.0000°,Azm225.0000°; P -1.3730,Plg48.0000°,Azm353.0000° $M_0$1.26400×10^{17}

(171) South of Fiji Islands

ISC	**IV**	**22 18 13 29.9–.44**	**24.44S–.05**	**179.99W–.06**	**512–4**	**4.5b**	**485**	**5-164**
ISCJB	IV	22 18 13 28.8–.62	24.47S–.03	179.88E–.04	503–7	4.5b		**¶16451868**
MOS	IV	22 18 13 28.8–.78	24.35S	179.85E	503	4.7b		
BJI	IV	22 18 13 29.4	24.20S	180.00E	512	5.0b,4.5b		
NEIC	IV	22 18 13 29.3–.13	24.41S	179.90E	504	4.6b,4.5b		
IDC	IV	22 18 13 30.1–.55	24.30S	179.87E	511–5	4.7,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.7km az=33.4.
MOS Error ellipse: s-maj=10.8km s-min=9.5km az=49.1.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=132.0.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=164.0.

(181) Fiji Islands region

ISC	**IV**	**23 21 09 11.0–.28**	**16.31S–.04**	**179.43W–.04**	**515–2**	**4.9b**	**1254**	**3-172**
ISCJB	IV	23 21 09 08.0–.56	16.40S–.03	179.53W–.02	484–6	4.9b		**¶16452975**
GCMT	IV	23 21 09 10.9–.30	16.22S	179.51W	526–1	5.4W		
IDC	IV	23 21 09 10.7–.41	16.40S	179.46W	507–4	5.4,4.5		
NEIC	IV	23 21 09 10.9–.12	16.39S	179.53W	509	4.9b,4.5		
BJI	IV	23 21 09 11.4	15.97S	179.29W	517	5.0b,4.9b		
MOS	IV	23 21 09 11.6–.97	16.28S	179.56W	522	4.9b,4.9b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=159.7.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s77,c122;Duration: 1♯2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.66±.03 $M_{\theta\theta}$0.96±.05; $M_{\phi\phi}$-0.29±.05; $M_{r\theta}$-0.82±.05; $M_{\theta\phi}$0.25±.04; $M_{\phi r}$-0.92±.04; Best double couple: NP1:ϕ_s49.00000°,δ76.00000°,λ-114.00000°. NP2:ϕ_s289.00000° ,δ27.00000°,λ-32.00000°. Principal axes: T 1.5110,Plg27.0000°,Azm157.0000° ; N 0.0050,Plg23.0000°,Azm55.0000°; P -1.5150,Plg53.0000°,Azm290.0000° $M_0$1.51300×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=6.4km az=156.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.7km az=144.0. Felt at Navua.
MOS Error ellipse: s-maj=7.6km s-min=7.2km az=60.0.

(259) Mindanao

ISC	**IV**	**26 15 52 20.1–.45**	**5.18N–.06**	**124.67E–.08**	**400**	**4.0b**	**68**	**2-121**
KLM	IV	26 15 52 16.4	5.12N	125.02E	345	5.0s,4.2b		**¶16476097**
ISCJB	IV	26 15 52 18.6–.29	5.16N–.04	124.74E–.06	400	4.0b,4.2b		
IDC	IV	26 15 52 18.8–.74	5.21N	124.69E	380–7	4.2,3.5		
NEIC	IV	26 15 52 20.1–1.6	5.40N	124.68E	382–7	4.1b,3.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.1km az=151.3.
IDC Error ellipse: s-maj=21.4km s-min=8.5km az=76.0.
NEIC Event type se. Error ellipse: s-maj=36.6km s-min=11.9km az=146.0.

(181) Fiji Islands region

ISC	**V**	**04 16 13 27.8–.31**	**20.32S–.03**	**178.44W–.04**	**577–3**	**5.2b**	**1567**	**4-176**
ISCJB	V	04 16 13 25.8–.47	20.35S–.03	178.51W–.02	557–6	5.1b		**¶16493787**
MOS	V	04 16 13 26.1–.83	20.24S	178.54W	558	5.2b		
BJI	V	04 16 13 27.8	20.05S	178.34W	580	5.3b,5.1b		
NEIC	V	04 16 13 28.0–.00	20.37S	178.66W	571	5.3b,5.1b		
GCMT	V	04 16 13 28.6–.20	20.25S	178.40W	597–1	5.6W,5.1b		
NEIC	V	04 16 13 28.6–.09	20.40S	178.55W	584	5.6W,5.5W		
IDC	V	04 16 13 28.1–.57	20.35S	178.48W	573–5	5.5,4.6		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.0km az=151.9.
MOS Error ellipse: s-maj=8.7km s-min=7.2km az=71.7.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.10 $M_{\theta\theta}$1.00 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.70 $M_{\theta\phi}$-1.10 $M_{\phi r}$-0.80 Best double couple: NP1:ϕ_s84.00000° ,δ74.00000°,λ-122.00000°. NP2:ϕ_s332.00000°,δ35.00000°,λ-27.00000°. Principal axes: T 2.1000,Plg22.0000°,Azm199.0000°; N 0.5000,Plg31.0000°,Azm94.0000° ; P -2.6000,Plg49.0000°,Azm318.0000° $M_0$2.00000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s97,c147; s23,c23; Duration: 1♯5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.94±.04 $M_{\theta\theta}$1.07±.06; $M_{\phi\phi}$-0.12±.06; $M_{r\theta}$-2.13±.05; $M_{\theta\phi}$-1.68±.05; $M_{\phi r}$-0.97±.06; Best double couple: NP1:ϕ_s84.00000°,δ78.00000° ,λ-129.00000°. NP2:ϕ_s340.00000°,δ40.00000°,λ-19.00000°. Principal axes: T 2.7710,Plg23.0000°,Azm203.0000°; N 0.5060,Plg38.0000°,Azm94.0000° ; P -3.2720,Plg44.0000°,Azm317.0000° $M_0$3.02100×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=139.0. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.98 $M_{\theta\theta}$1.73 $M_{\phi\phi}$0.25 $M_{r\theta}$-2.43 $M_{\theta\phi}$-1.71 $M_{\phi r}$-0.71 Best double couple: NP1:ϕ_s92.00000°,δ70.00000°,λ-121.00000°. NP2:ϕ_s332.00000° ,δ36.00000°,λ-35.00000°. Principal axes: T 3.4500,Plg20.0000°,Azm204.0000° ; N 0.2600,Plg29.0000°,Azm103.0000°; P -3.7100,Plg54.0000°,Azm323.0000° $M_0$3.60000×10^{17}
IDC Error ellipse: s-maj=8.5km s-min=7.4km az=132.0.

(262) Celebes Sea

ISC	**V**	**07 01 41 27.9–.48**	**3.76N–.07**	**124.20E–.10**	**339**	**3.7b**	**34**	**4-124**
ISCJB	V	07 01 41 26.7–.41	3.84N–.06	124.2E–.10	339	3.6b		**¶17202964**
IDC	V	07 01 41 30.2–2.3	3.79N	124.29E	361–24	4.1,3.5		
DJA	V	07 01 41 32.0–.70	3N–9.0	124E–6.0	368–10	5.2b,4.6b		

ISC Event type ke.
ISCJB Event type ke.

(181) Fiji Islands region

ISC	**V**	**08 00 09 20.4–.34**	**20.38S–.06**	**178.28W–.06**	**587**	**4.7b**	**289**	**4-163**
BJI	V	08 00 09 15.0	20.55S	178.07W	552	5.0b,4.8b		**¶16560931**
IDC	V	08 00 09 16.7–1.1	20.27S	178.23W	538–12	4.7,4.0		
NEIC	V	08 00 09 17.2–.50	20.17S	178.24W	547–6	5.0b,4.0		
ISCJB	V	08 00 09 19.3–.23	20.34S–.04	178.34W–.05	587	4.6b,4.0		
MOS	V	08 00 09 19.0–1.9	19.25S	178.73W	524	4.4b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=10.0km az=147.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=37.4.
MOS Error ellipse: s-maj=11.5km s-min=10.7km az=39.8.

(663) Sea of Okhotsk

ISC	**V**	**09 12 16 04.7–.35**	**46.98N–.04**	**144.69E–.04**	**404–3**	**4.5b**	**846**	**1-112**
NIED	V	09 12 16 00	46.70N	144.70E	460	5.1W		**¶16501820**
MOS	V	09 12 16 03.7–.95	47.05N	144.62E	404	4.5b		
JMA	V	09 12 16 03.4–.40	46.67N	144.75E	442–4	5.0		
NEIC	V	09 12 16 04.6–.39	47.13N	144.57E	394–4	4.5b		
SKHL	V	09 12 16 04.5–.80	46.90N	144.70E	400–8	5.6,5.6		
ISCJB	V	09 12 16 04.0–.14	47.00N–.02	144.65E–.02	407–1	4.4b,5.6		
IDC	V	09 12 16 04.5–.84	47.07N	144.62E	400–9	4.9,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ75.00000°,λ-171.00000°. NP2:ϕ_s324.00000°,δ81.00000°,λ-15.00000°. $M_0$5.33000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=97.0.
JMA Error ellipse: s-maj=4.4km s-min=3.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.6km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=157.4.
IDC Error ellipse: s-maj=9.2km s-min=7.0km az=136.0.

(657) Priamurye-Northeastern China border region

ISC	**V**	**10 15 26 05.1–.19**	**43.32N–.02**	**131.09E–.02**	**555–1**	**5.4b**	**2315**	**1-164**
NIED	V	10 15 26 00	43.50N	131.50E	680	5.5W		**¶16503286**
JMA	V	10 15 26 01.4–.20	43.52N	131.50E	632–4	5.6		
ISCJB	V	10 15 26 03.9–.13	43.28N–.01	130.95E–.02	546–1	5.4b		
BJI	V	10 15 26 03.1	43.30N	131.20E	560	6.1b,5.7b		
SKHL	V	10 15 26 04.3–.60	43.31N	131.17E	554–8	6.5,6.4		
GCMT	V	10 15 26 04.6–.60	43.61N	130.98E	564–4	5.7W,6.4		
MOS	V	10 15 26 04.0–.76	43.34N	131.11E	558	5.5b,6.4		
NEIC	V	10 15 26 04.6–.07	43.29N	130.94E	545	5.4b,6.4		
IDC	V	10 15 26 05.6–.21	43.33N	130.98E	555–2	5.6,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ7.00000°,λ16.00000°. NP2:ϕ_s155.00000°,δ88.00000°,λ97.00000°. $M_0$2.22000×10^{17}
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=2.0km s-min=1.6km az=142.5.
GCMT Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s47,c63;Duration: 1♯7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.15 $M_{\theta\theta}$2.16±.23; $M_{\phi\phi}$-2.91±.26; $M_{r\theta}$1.53±.23; $M_{\theta\phi}$2.33±.22; $M_{\phi r}$-3.24±.23; Best double couple: NP1:ϕ_s298.00000°,δ86.00000°,λ-37.00000°. NP2:ϕ_s31.00000°,δ53.00000°,λ-175.00000°. Principal axes: T 3.1710,Plg22.0000°,Azm351.0000°; N 2.6010,Plg52.0000°,Azm112.0000° ; P -5.7790,Plg29.0000°,Azm248.0000° $M_0$4.47500×10^{17}

MOS Error ellipse: s-maj=6.3km s-min=4.5km az=102.7.
NEIC Event type se. Error ellipse: s-maj=2.5km s-min=2.0km az=141.0.
IDC Error ellipse: s-maj=4.7km s-min=3.8km az=60.0.

(181) Fiji Islands region

ISC	**V**	**11 00 48 08.7–.26**	**18.85S–.06**	**176.69W–.04**	**350**	**5.0b**	**839**	**5-176**
IDC	V	11 00 48 05.8–1.1	18.87S	176.75W	317–9	5.0,4.5		**¶16560023**
NEIC	V	11 00 48 06.2–.50	18.92S	176.77W	320–4	5.0b,4.5		
GCMT	V	11 00 48 06.2–.60	18.91S	176.05W	361–3	5.2W,4.5		
ISCJB	V	11 00 48 07.9–.11	18.98S–.03	176.78W–.02	350	4.9b,4.5		
MOS	V	11 00 48 07.1–1.8	18.79S	176.75W	327	5.0b,4.5		

ISC Event type fe.
IDC Error ellipse: s-maj=10.6km s-min=9.0km az=158.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=149.0. Felt at Tubou and Vunisea.
GCMT Error ellipse: s-maj=6.7km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s56,c62;Duration: 1$s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42±.53 $M_{\theta\theta}$3.05±.87; $M_{\phi\phi}$-2.64±.68; $M_{r\theta}$0.89±.69; $M_{\theta\phi}$-3.28±.51; $M_{\phi r}$-7.91±.49; Best double couple: NP1:ϕ_s346.00000°,δ89.00000°,λ-62.00000°. NP2:ϕ_s77.00000°,δ28.00000°,λ-179.00000°. Principal axes: T 8.1050,Plg38.0000°,Azm50.0000°; N 1.6940,Plg28.0000°,Azm165.0000° ; P -9.8050,Plg39.0000°,Azm281.0000° M_o8.95500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.5km az=153.5.
MOS Error ellipse: s-maj=8.0km s-min=6.7km az=135.2.

(181) Fiji Islands region

ISC	**V**	**12 12 29 25.5–.35**	**19.73S–.06**	**177.76W–.06**	**600**	**4.9b**	**334**	**4-173**
BJI	V	12 12 29 18.5	20.03S	177.07W	561	4.9b,4.8b		**¶16560042**
IDC	V	12 12 29 23.4–1.3	19.77S	177.88W	564–14	4.9,4.1		
ISCJB	V	12 12 29 24.8–.22	19.91S–.03	177.96W–.06	600	4.8b,4.1		
NEIC	V	12 12 29 24.2–.61	19.79S	177.86W	579–7	5.1b,4.1		
MOS	V	12 12 29 28.2–2.1	18.88S	178.35W	583	4.6b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=9.9km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.0km az=5.6.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.0km az=113.0.
MOS Error ellipse: s-maj=12.8km s-min=10.2km az=28.6.

(259) Mindanao

ISC	**V**	**12 15 15 12.4–.34**	**6.67N–.03**	**123.70E–.04**	**612–3**	**4.8b**	**559**	**1-173**
MAN	V	12 15 15 10	6.71N	123.90E	620	5.5b,4.8s		**¶16506970**
ISCJB	V	12 15 15 11.6–.14	6.73N–.02	123.73E–.03	618–1	4.8b,4.8s		
KLM	V	12 15 15 12.3	6.70N	123.81E	601	5.7s,4.9b		
NEIC	V	12 15 15 12.7–.29	6.69N	123.67E	618–4	4.9b,4.9b		
MOS	V	12 15 15 12.2–.93	6.76N	123.69E	625	4.8b,4.9b		
IDC	V	12 15 15 12.7–.69	6.68N	123.71E	615–8	4.9,4.0		
DJA	V	12 15 15 13.2–.20	7N–3.0	124E–2.0	611–4	7.3,5.1b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

(280) Banda Sea

ISC	**V**	**19 06 33 11.2–.35**	**7.01S–.03**	**123.42E–.04**	**624–3**	**4.8b**	**619**	**2-154**
BJI	V	19 06 33 04.5	7.59S	123.79E	624	5.0b,4.9b		**¶16528330**
ISCJB	V	19 06 33 11.0–.16	7.02S–.02	123.41E–.03	644–2	4.7b,4.9b		
MOS	V	19 06 33 10.3–.88	6.92S	123.40E	630	4.9b,4.9b		
NEIC	V	19 06 33 11.8–.25	6.99S	123.40E	632–3	5.0b,4.9b		
IDC	V	19 06 33 11.9–.52	6.98S	123.43E	634–6	5.2,4.2		
GCMT	V	19 06 33 11.8–.30	6.88S	123.32E	640–3	5.3W,4.2		
DJA	V	19 06 33 12.2–.20	7S–2.0	123E–2.0	632–3	5.7,5.5b		
KLM	V	19 06 33 19.6	6.29S	123.07E	643	5.6s,5.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.9km az=151.1.
MOS Error ellipse: s-maj=10.9km s-min=6.1km az=109.9.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.3km az=61.0.
IDC Error ellipse: s-maj=8.7km s-min=5.0km az=66.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s82,c102;Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.83±.04 $M_{\theta\theta}$0.79±.05; $M_{\phi\phi}$0.03±.06; $M_{r\theta}$-0.51±.05; $M_{\theta\phi}$0.06±.06; $M_{\phi r}$0.26±.06; Best double couple: NP1:ϕ_s102.00000°,δ62.00000°,λ-75.00000°. NP2:ϕ_s252.00000° ,δ31.00000°,λ-116.00000°. Principal axes: T 0.9360,Plg16.0000°,Azm181.0000° ; N 0.1050,Plg13.0000°,Azm275.0000°; P -1.0410,Plg69.0000°,Azm42.0000° M_o0.98800×10^{17}

(220) Northwest of Kuril Islands

ISC	**V**	**24 18 08 29.0–.50**	**47.16N–.04**	**147.43E–.04**	**365–4**	**4.3b**	**686**	**2-154**
NIED	V	24 18 08 00	46.60N	147.70E	380	4.2W		**¶16544917**
SKHL	V	24 18 08 28.6–1.3	47.15N	147.42E	367–12	5.0b,4.7s		
ISCJB	V	24 18 08 28.6–.19	47.30N–.03	147.32E–.03	363–2	4.2b,4.7s		
MOS	V	24 18 08 28.9–.88	47.36N	147.29E	366	4.3b,4.7s		
JMA	V	24 18 08 29.1–.40	46.64N	147.68E	402	4.1,4.7s		
IDC	V	24 18 08 30.4–1.1	47.37N	147.29E	369–11	4.5,3.9		
NEIC	V	24 18 08 30.3–.29	47.42N	147.22E	366–3	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ35.00000°,λ135.00000°. NP2:ϕ_s139.00000°,δ66.00000°,λ63.00000°. M_o2.30000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=161.1.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=81.6.
JMA Error ellipse: s-maj=4.4km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=9.7km s-min=7.9km az=136.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.2km az=154.0.

(220) Northwest of Kuril Islands

ISC	**V**	**25 10 02 52.4–.27**	**49.10N–.03**	**147.61E–.03**	**568–2**	**5.1b**	**1952**	**4-152**
NIED	V	25 10 02 00	48.70N	148.40E	620	5.3W		**¶602608607**
SKHL	V	25 10 02 49.6–1.2	49.12N	148.34E	557–5	5.9s,5.9		
JMA	V	25 10 02 49.3–.30	48.69N	148.40E	585	5.4,5.9		
ISCJB	V	25 10 02 51.1–.15	49.18N–.02	147.53E–.02	559–2	5.1b,5.9		
MOS	V	25 10 02 51.3–.78	49.14N	147.55E	563	5.3b,5.9		
BJI	V	25 10 02 51.2	49.09N	147.49E	557	5.2b,4.8b		
GCMT	V	25 10 02 52.4–.30	49.18N	147.52E	569–2	5.3W,4.8b		
NEIC	V	25 10 02 52.4–.21	49.16N	147.48E	562–2	5.1b,4.8b		
IDC	V	25 10 02 52.9–.42	49.14N	147.52E	570–4	5.6,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ45.00000°,λ-125.00000°. NP2:ϕ_s167.00000°,δ55.00000°,λ-60.00000°. M_o8.84000×10^{16}
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.1.
MOS Error ellipse: s-maj=6.1km s-min=3.8km az=97.1.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s78,c118;Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.47±.03 $M_{\theta\theta}$0.58±.04; $M_{\phi\phi}$-0.11±.04; $M_{r\theta}$-0.76±.04; $M_{\theta\phi}$-0.65±.04; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s87.00000°,δ75.00000°,λ-127.00000°. NP2:ϕ_s338.00000° ,δ40.00000°,λ-24.00000°. Principal axes: T 1.1860,Plg21.0000°,Azm204.0000° ; N -0.0890,Plg36.0000°,Azm98.0000°; P -1.0970,Plg47.0000°,Azm318.0000° M_o1.14100×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.6km az=150.0.
IDC Error ellipse: s-maj=5.8km s-min=4.8km az=151.0.

(171) South of Fiji Islands

ISC	**V**	**28 18 35 52.7–.21**	**27.49S–.03**	**178.42W–.03**	**307–1**	**5.4b**	**1352**	**2-169**
BJI	V	28 18 35 45.6	26.99S	178.02W	253	5.2b,5.0b		**¶16560165**
MOS	V	28 18 35 51.8–.77	27.07S	178.58W	299	5.4b,5.0b		
ISCJB	V	28 18 35 51.5–.08	27.56S–.02	178.49W–.02	308	5.4b,5.0b		
GCMT	V	28 18 35 52.5–.30	27.14S	178.26W	318–1	5.5W,5.0b		
IDC	V	28 18 35 52.9–.49	27.14S	178.52W	302–4	5.4,4.8		
NEIC	V	28 18 35 52.5–.11	27.47S	178.53W	307	5.3b,4.8		

ISC Event type se.
MOS Error ellipse: s-maj=8.7km s-min=7.4km az=68.1.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=1.9km az=37.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s76,c113;Duration: 1$s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.02±.06 $M_{\theta\theta}$-0.46±.10; $M_{\phi\phi}$0.43±.09; $M_{r\theta}$0.73±.08; $M_{\theta\phi}$0.67±.08; $M_{\phi r}$-2.30±.07; Best double couple: NP1:ϕ_s162.00000°,δ90.00000°,λ108.00000°. NP2:ϕ_s253.00000°,δ18.00000°,λ1.00000°. Principal axes: T 2.5370,Plg42.0000°,Azm90.0000°; N 0.0140,Plg18.0000°,Azm342.0000° ; P -2.5500,Plg42.0000°,Azm235.0000° M_o2.54400×10^{17}
IDC Error ellipse: s-maj=9.9km s-min=8.3km az=2.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=146.0.

(171) South of Fiji Islands

ISC	**VI**	**05 23 43 32.4–.42**	**24.35S–.04**	**178.73W–.05**	**383–4**	**4.8b**	**473**	**5-169**
ISCJB	VI	05 23 43 27.4–.76	24.33S–.03	178.81W–.04	339–8	4.8b		**¶16558253**
IDC	VI	05 23 43 30.4–1.3	24.19S	178.79W	360–11	4.9,4.4		
BJI	VI	05 23 43 31.8	24.30S	178.80W	382	4.9b,4.7b		
GCMT	VI	05 23 43 33.1–.30	24.31S	178.82W	374–1	5.2W,4.7b		
NEIC	VI	05 23 43 33.1–.67	24.31S	178.86W	386–7	4.9b,4.7b		
MOS	VI	05 23 43 35.4–3.3	24.19S	179.30W	387	5.0b,4.7b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.1km az=20.3.
IDC Error ellipse: s-maj=11.9km s-min=11.5km az=113.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s83,c116;Duration: 1$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.69±.02 $M_{\theta\theta}$0.29±.04; $M_{\phi\phi}$0.40±.04; $M_{r\theta}$-0.10±.04; $M_{\theta\phi}$-0.12±.04; $M_{\phi r}$-0.74±.03; Best double couple: NP1:ϕ_s359.00000°,δ72.00000°,λ-81.00000°. NP2:ϕ_s153.00000° ,δ20.00000°,λ-115.00000°. Principal axes: T 0.7830,Plg26.0000°,Azm82.0000° ; N 0.2980,Plg8.0000°,Azm176.0000°; P -1.0810,Plg62.0000°,Azm283.0000° M_o0.93200×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.7km az=125.0.
MOS Error ellipse: s-maj=10.4km s-min=8.2km az=109.3.

(220) Northwest of Kuril Islands

ISC	**VI**	**08 00 28 26.7–.49**	**48.01N–.04**	**146.50E–.05**	**483–5**	**4.1b**	**466**	**3-153**
NIED	VI	08 00 28 00	47.60N	146.70E	560	4.6W		**¶16580617**
JMA	VI	08 00 28 26.1–.50	47.62N	146.72E	522	4.0		
SKHL	VI	08 00 28 26.7–.50	47.97N	146.67E	504–4	5.1b,4.9s		
MOS	VI	08 00 28 26.7–.98	48.16N	146.45E	489	4.1b,4.9s		
ISCJB	VI	08 00 28 26.2–.19	48.08N–.03	146.46E–.03	483–2	4.1b,4.9s		
IDC	VI	08 00 28 27.6–1.1	48.15N	146.43E	487–13	4.5,3.8		
NEIC	VI	08 00 28 27.5–.38	48.18N	146.39E	484–5	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ45.00000°,λ43.00000°. NP2:ϕ_s212.00000°,δ61.00000°,λ126.00000°. M_o8.49000×10^{15}
JMA Error ellipse: s-maj=6.7km s-min=6.0km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=6.0km az=102.9.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=169.3.
IDC Error ellipse: s-maj=9.1km s-min=7.5km az=144.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=156.0.

(203) Bismarck Sea

ISC	**VI**	**08 15 40 14.6–.27**	**4.56S–.03**	**150.01E–.03**	**505–2**	**5.2b**	**1052**	**2-155**
ISCJB	VI	08 15 40 13.9–.35	4.56S–.02	149.94E–.02	506–4	5.2b		**¶16720886**
BJI	VI	08 15 40 13.9	4.47S	150.20E	516	5.1b,4.9b		
DJA	VI	08 15 40 14.7–.60	5S–4.0	150E–4.0	513–7	6.1,5.3b		
MOS	VI	08 15 40 14.3–.86	4.48S	149.93E	505	5.4b,5.3b		
GCMT	VI	08 15 40 15.1–.20	4.43S	149.91E	500–1	5.5W,5.3b		
NEIC	VI	08 15 40 15.1–.08	4.57S	149.94E	511	5.3b,5.3b		
IDC	VI	08 15 40 15.3–.51	4.62S	149.96E	510–5	5.5,4.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.0km az=36.6.
MOS Error ellipse: s-maj=7.0km s-min=5.1km az=103.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s102,c174;Duration: 1$s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.56±.03 $M_{\theta\theta}$0.15±.05; $M_{\phi\phi}$1.41±.05; $M_{r\theta}$-0.77±.06; $M_{\theta\phi}$1.03±.05; $M_{\phi r}$-0.24±.06; Best double couple: NP1:ϕ_s48.00000°,δ58.00000°,λ-66.00000°. NP2:ϕ_s189.00000° ,δ40.00000°,λ-123.00000°. Principal axes: T 2.0850,Plg9.0000°,Azm121.0000° ; N -0.2250,Plg20.0000°,Azm215.0000°; P -1.8620,Plg68.0000°,Azm8.0000° M_o1.97300×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=2.6km az=102.0.
IDC Error ellipse: s-maj=9.0km s-min=6.3km az=79.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**VI**	**10 10 49 21.9–.47**	**1.72N–.06**	**122.59E–.09**	**450**	**3.9b**	**52**	**1-126**
ISCJB	VI	10 10 49 20.9–.34	1.76N–.04	122.63E–.06	450	3.9b		**¶17205700**
KLM	VI	10 10 49 20.1	1.69N	122.85E	476	5.1s,4.4b		
IDC	VI	10 10 49 22.1–1.5	1.72N	122.54E	454–17	4.4,3.6		
DJA	VI	10 10 49 23.3–.40	2N–6.0	122E–4.0	447–4	4.5b,4.5b		

ISC Event type ke.
ISCJB Event type ke.

(185) Vanuatu Islands region

ISC	**VI**	**12 05 24 26.2–.38**	**14.34S–.05**	**171.40E–.05**	**622–4**	**4.7b**	**423**	**7-170**
BJI	VI	12 05 24 24.0	14.30S	171.30E	611	4.8b,4.7b		**¶16720904**
ISCJB	VI	12 05 24 25.2–.65	14.36S–.05	171.27E–.03	619–9	4.7b,4.7b		
NEIC	VI	12 05 24 25.6–.13	14.34S	171.33E	611	5.2b,4.7b		
IDC	VI	12 05 24 26.3–.87	14.42S	171.41E	624–10	5.1,4.2		
MOS	VI	12 05 24 26.0–.83	14.30S	171.26E	630	4.8b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.6km az=169.3.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=150.0.
IDC Error ellipse: s-maj=10.0km s-min=7.7km az=76.0.
MOS Error ellipse: s-maj=9.0km s-min=8.4km az=140.8.

(181) Fiji Islands region

ISC	**VI**	**13 12 46 00.3–.34**	**19.26S–.04**	**177.41W–.04**	**570–3**	**5.0b**	**787**	**5-174**
MOS	VI	13 12 45 58.7–.97	19.05S	177.56W	556	4.8b		**¶16593458**
BJI	VI	13 12 45 58.9	18.75S	177.40W	552	4.9b,4.8b		
ISCJB	VI	13 12 45 58.7–.50	19.23S–.03	177.48W–.02	562–6	5.0b,4.8b		
IDC	VI	13 12 45 59.4–.79	19.17S	177.44W	560–8	5.1,4.4		
NEIC	VI	13 12 46 00.6–.44	19.19S	177.52W	571–5	5.2b,4.4		
GCMT	VI	13 12 46 00.6–.40	19.25S	177.34W	585–3	5.3W,4.4		

ISC Event type fe.
MOS Error ellipse: s-maj=9.0km s-min=7.7km az=57.3.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=158.1.
IDC Error ellipse: s-maj=9.0km s-min=8.1km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=142.0. Felt at Suva.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s59,c72;Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.25±.04 $M_{\theta\theta}$0.20±.06; $M_{\phi\phi}$-0.45±.05; $M_{r\theta}$-0.18±.06; $M_{\theta\phi}$0.01±.05; $M_{\phi r}$-0.98±.05; Best double couple: NP1:ϕ_s191.00000°,δ81.00000°,λ97.00000°. NP2:ϕ_s333.00000°,δ12.00000°,λ52.00000°. Principal axes: T 0.9740,Plg54.0000°,Azm110.0000°; N 0.1770,Plg7.0000°,Azm10.0000° ; P -1.1510,Plg35.0000°,Azm275.0000° M_o1.06200×10^{17}

(211) Southeast of Honshu

ISC	**VI**	**15 02 42 26.9–.32**	**30.36N–.03**	**138.53E–.04**	**427–2**	**4.7b**	**700**	**3-152**
NIED	VI	15 02 42 00	30.30N	138.80E	440	4.8W		**¶16601819**
ISCJB	VI	15 02 42 25.7–.23	30.37N–.02	138.47E–.02	424–2	4.6b		
JMA	VI	15 02 42 25.4–.30	30.33N	138.82E	438–4	4.3		
MOS	VI	15 02 42 25.3–.84	30.37N	138.40E	419	4.8b		
BJI	VI	15 02 42 26.0	30.33N	138.42E	436	5.0b,4.6b		
IDC	VI	15 02 42 27.1–.47	30.38N	138.47E	427–4	5.1,4.3		
NEIC	VI	15 02 42 27.1–.10	30.36N	138.39E	427	4.6b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ32.00000°,λ-107.00000°. NP2:ϕ_s320.00000°,δ59.00000°,λ-80.00000°. M_o1.84000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=39.5.
JMA Error ellipse: s-maj=3.3km s-min=2.9km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=3.9km az=108.2.
IDC Error ellipse: s-maj=8.0km s-min=5.8km az=88.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.3km az=132.0.

(181) Fiji Islands region

ISC	**VI**	**22 22 16 55.0–.34**	**21.78S–.04**	**179.02W–.04**	**550–3**	**5.2b**	**1018**	**5-176**
ISCJB	VI	22 22 16 54.3–.45	21.79S–.03	179.17W–.03	546–5	5.1b		**¶16720973**
IDC	VI	22 22 16 54.6–.79	21.73S	179.17W	541–7	5.3,4.5		
BJI	VI	22 22 16 54.8	21.47S	178.71W	559	5.1b,4.8b		
MOS	VI	22 22 16 54.4–.89	21.70S	179.15W	545	5.2b,4.8b		
NEIC	VI	22 22 16 56.8–.37	21.74S	179.24W	567–4	5.2b,4.8b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.3km az=137.6.
IDC Error ellipse: s-maj=9.2km s-min=7.5km az=154.0.
MOS Error ellipse: s-maj=9.6km s-min=7.8km az=67.5.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.3km az=149.0.

(259) Mindanao

ISC	**VI**	**24 17 23 43.5–.31**	**6.67N–.03**	**123.62E–.04**	**596–3**	**4.9b**	**697**	**1-165**
BJI	VI	24 17 23 37.6	6.14N	123.88E	590	5.2b,5.0b		**¶16679647**
ISCJB	VI	24 17 23 42.9–.13	6.69N–.02	123.61E–.02	603–1	4.9b,5.0b		
MOS	VI	24 17 23 42.7–.92	6.70N	123.58E	599	5.0b,5.0b		
KLM	VI	24 17 23 43.2	6.70N	123.75E	602	5.7s,5.3b		
MAN	VI	24 17 23 43	6.74N	123.75E	593	5.5b,5.0s		

IDC	VI	24 17 23 44.0–.65	6.64N	123.55E	599–7	5.1,4.3
NEIC	VI	24 17 23 43.7–.27	6.65N	123.57E	598–3	5.0b,4.3
GCMT	VI	24 17 23 43.7–.50	6.67N	123.40E	598–3	5.3W,4.3
DJA	VI	24 17 23 44.2–.20	7N–3.0	124E–2.0	600–2	5.6,5.2b

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s42,c60;Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.33±.06 $M_{\theta\theta}$0.03±.06; $M_{\phi\phi}$0.29±.08; $M_{r\theta}$-0.21±.07; $M_{\theta\phi}$0.24±.08; $M_{\phi r}$-1.19±.07; Best double couple: NP1:ϕ_s11.00000°,δ82.00000°,λ-98.00000°. NP2:ϕ_s235.00000°,δ11.00000°,λ-46.00000°. Principal axes: T 1.2950,Plg37.0000° ,Azm108.0000°; N -0.0490,Plg8.0000°,Azm12.0000°; P -1.2460,Plg52.0000°,Azm272.0000° M_o1.27000×10^{17}

(193) Bougainville-Solomon Islands region

ISC	**VI**	**24 19 49 19.5–.29**	**5.94S–.05**	**154.55E–.05**	**450**	**4.7b**	**206**	**3-152**
IDC	VI	24 19 49 17.3–.68	5.86S	154.52E	420–6	4.9,4.1		**¶16681346**
ISCJB	VI	24 19 49 18.5–.19	5.89S–.03	154.42E–.04	450	4.6b,4.1		
DJA	VI	24 19 49 18.8–.70	6S–4.0	154E–6.0	465–9	5.1b,4.8		
NEIC	VI	24 19 49 18.1–.39	5.88S	154.51E	431–4	4.8b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=8.0km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=38.3.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=109.0.

(171) South of Fiji Islands

ISC	**VI**	**25 21 16 55.6–.31**	**24.49S–.04**	**179.52E–.04**	**533–3**	**5.3b**	**1245**	**5-174**
IDC	VI	25 21 16 54.9–.43	24.54S	179.45E	523–4	5.5,4.8		**¶602918769**
ISCJB	VI	25 21 16 54.1–.43	24.52S–.02	179.35E–.02	518–5	5.2b,4.8		
MOS	VI	25 21 16 55.0–.99	24.45S	179.39E	525	5.2b,4.8		
GCMT	VI	25 21 16 55.5–.20	24.51S	179.58E	539–1	5.6W,4.8		
NEIC	VI	25 21 16 55.5–.43	24.51S	179.37E	528–5	5.6W,5.6W		
BJI	VI	25 21 16 56.0	24.21S	179.74E	547	5.3b,5.3b		
NEIC	VI	25 21 16 57.0–.00	24.41S	179.51E	546	5.3b,5.3b		

ISC Event type fe.
IDC Error ellipse: s-maj=7.2km s-min=6.4km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=149.4.
MOS Error ellipse: s-maj=8.1km s-min=7.0km az=78.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c158; s27,c28; Duration: 1$\dot{s}$5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.75±.04 $M_{\theta\theta}$-1.17±.07; $M_{\phi\phi}$0.41±.07; $M_{r\theta}$-0.04±.07; $M_{\theta\phi}$-0.01±.07; $M_{\phi r}$-2.93±.06; Best double couple: NP1:ϕ_s181.00000° ,δ88.00000°,λ89.00000°. NP2:ϕ_s29.00000°,δ2.00000°,λ118.00000°. Principal axes: T 3.5190,Plg47.0000°,Azm90.0000°; N -1.1690,Plg1.0000°,Azm181.0000° ; P -2.3510,Plg43.0000°,Azm272.0000° M_o2.93500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=147.0. Felt at Suva. Also felt at Nuku'alofa, Tonga. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.29 $M_{\theta\theta}$1.03 $M_{\phi\phi}$-0.74 $M_{r\theta}$1.58 $M_{\theta\phi}$0.02 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s324.00000° ,δ89.00000°,λ-74.00000°. NP2:ϕ_s57.00000°,δ16.00000°,λ-176.00000°. Principal axes: T 2.8300,Plg42.0000°,Azm39.0000°; N 0.4800,Plg16.0000°,Azm144.0000° ; P -3.3100,Plg44.0000°,Azm249.0000° M_o3.10000×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$-0.65 $M_{\phi\phi}$0.16 $M_{r\theta}$-0.05 $M_{\theta\phi}$0.70 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s174.00000° ,δ87.00000°,λ107.00000°. NP2:ϕ_s275.00000°,δ18.00000°,λ11.00000°. Principal axes: T 2.9100,Plg45.0000°,Azm101.0000°; N -0.5900,Plg17.0000°,Azm353.0000° ; P -2.3200,Plg39.0000°,Azm248.0000° M_o2.70000×10^{17}

(280) Banda Sea

ISC	**VI**	**26 23 27 46.8–.40**	**7.67S–.05**	**125.22E–.06**	**371**	**3.9b**	**77**	**2-130**
ISCJB	VI	26 23 27 45.8–.25	7.65S–.03	125.19E–.04	371	3.9b		**¶16684564**
NEIC	VI	26 23 27 46.9–.41	7.63S	125.26E	364–6	4.5b		
DJA	VI	26 23 27 47.3–.50	8S–4.0	125E–3.0	355–7	5.1b,4.9		
IDC	VI	26 23 27 47.8–1.4	7.67S	125.18E	378–15	4.3,3.6		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=160.4.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.6km az=47.0.
IDC Error ellipse: s-maj=15.6km s-min=7.8km az=69.0.

FELT AND DAMAGING EARTHQUAKES

(162) South Island

ISC	**I**	**01 01 05 45.0–.87**	**43.56S–.03**	**172.45E–.03**	**15–6**		**112**	**0-149**
ISCJB	I	01 01 05 44.0–.42	43.60S–.03	172.56E–.05	28–4	3.5b,3.1s		¶15902452
IDC	I	01 01 05 44.0–1.6	43.27S	172.35E	0	3.7,3.6		
NEIC	I	01 01 05 44.9	43.56S	172.43E	12	4.4L,3.6		
WEL	I	01 01 05 44.9–.08	43.55S	172.42E	10–1	4.4L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=3.5km az=135.2.
IDC Error ellipse: s-maj=45.9km s-min=13.5km az=148.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 7.

(321) Southern Xinjiang

ISC	**I**	**01 01 56 05.8–.70**	**39.43N–.02**	**75.28E–.02**	**8–4**	**5.1b,4.4s**	**644**	**1-150**
KRNET	I	01 01 56 03.0–.10	39.16N	75.24E		5.7b,4.4s		¶15902455
IDC	I	01 01 56 04.3–.40	39.42N	75.27E	0	4.8,4.7		
BJI	I	01 01 56 04.7	39.49N	75.21E	9	5.1b,5.0L		
ISCJB	I	01 01 56 04.2–.11	39.36N–.02	75.31E–.02	10	5.0b,4.4s		
NEIC	I	01 01 56 06.0–.15	39.44N	75.25E	10	5.1b,4.4s		
GCMT	I	01 01 56 06.0–.20	39.44N	75.16E	12	4.9W,4.4s		
MOS	I	01 01 56 06.5–1.1	39.47N	75.29E	23	5.2b,4.4s		
SOME	I	01 01 56 07.7	39.68N	75.42E	10	4.6s,4.4s		
NNC	I	01 01 56 10.9–2.4	39.77N	75.23E	0	5.3b,5.1		

ISC Event type fe.
IDC Error ellipse: s-maj=9.8km s-min=8.9km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=22.4.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=27.0. Felt at Kashi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c61; s97,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.88±.07 $M_{\theta\theta}$-3.26±.06; $M_{\phi\phi}$0.37±.07; $M_{r\theta}$0.15±.19; $M_{\theta\phi}$0.01±.06; $M_{\phi r}$-0.34±.24; Best double couple: NP1:ϕ_s98.00000°,δ47.00000°,λ100.00000°. NP2:ϕ_s263.00000°,δ44.00000°,λ79.00000°. Principal axes: T 2.9280,Plg82.0000°,Azm79.0000°; N 0.3310,Plg7.0000°,Azm271.0000°; P -3.2640,Plg1.0000°,Azm180.0000° $M_0$3.09600×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=117.0.
NNC Event type se. Error ellipse: s-maj=21.8km s-min=13.0km az=178.0.

(132) Santiago del Estero Province

ISC	**I**	**01 09 56 58.5–.16**	**26.85S–.02**	**63.24W–.03**	**584–1**	**6.7b**	**2994**	**2-177**
SJA	I	01 09 56 50.8–.55	26.90S	63.68W	649–5	6.9W		¶601988567
BJI	I	01 09 56 56.9	26.19S	63.90W	574	6.8b		
NEIC	I	01 09 56 57.0–.00	26.84S	63.15W	562	6.8b		
MOS	I	01 09 56 57.6–.94	26.82S	63.28W	582	6.7b		
ISCJB	I	01 09 56 57.5–.18	26.78S–.02	63.18W–.02	581–2	6.6b		
NEIC	I	01 09 56 58.1–.09	26.80S	63.14W	577	7.0,7.0W		
GCMT	I	01 09 56 58.1–.10	27.02S	63.21W	586–0	7.0W,7.0W		
GUC	I	01 09 56 59.3–1.9	26.80S	63.31W	554–53	7.0W,7.0W		
IDC	I	01 09 56 59.1–.22	26.82S	63.24W	587–2	6.8,6.1		
NEIC	I	01 09 57 18.2–.00	27.01S	63.00W	593	6.8,6.1		

ISC Event type fe.
SJA Error ellipse: s-maj=3.6km s-min=7.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.14 $M_{\theta\theta}$-0.29 $M_{\phi\phi}$2.43 $M_{r\theta}$-1.62 $M_{\theta\phi}$-0.54 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s152.00000°,δ72.00000°,λ-102.00000°. NP2:ϕ_s8.00000°,δ21.00000°,λ-55.00000°. Principal axes: T 3.9400,Plg26.0000°,Azm252.0000°; N -0.1500,Plg12.0000°,Azm156.0000°; P -3.7900,Plg61.0000°,Azm43.0000° $M_0$3.90000×10^{19}
MOS Error ellipse: s-maj=9.8km s-min=6.0km az=97.9.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=149.4.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=63.0. Felt [V] at Santiago del Estero and [III] in Cordoba, Corrientes and La Rioja. Also felt at Rosario and San Juan. Felt [III] at Campinas, Brazil. Also felt at Brasilia, Londrina, Marilia, Nova Friburgo, Rio Negro and Sao Paulo. Felt [III] at Mejillones and Pozo Almonte; [II] at Antofagasta, Arica, Coquimbo, Huara, La Serena and Vina del Mar, Chile. Also felt at Calama, Chillan, Quilpue and Valparaiso. Complex earthquake, with at least one larger event occurring about 2 seconds after the onset observed on broadband displacement seismograms. Depth from broadband displacement seismograms based on first event. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=150s. Moment Tensor Solution. s139,c381; s129,c284; Duration: 8s0 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.47±.01 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$2.59±.02; $M_{r\theta}$-1.76±.01; $M_{\theta\phi}$-0.77±.02; $M_{\phi r}$2.98±.01; Best double couple: NP1:ϕ_s152.00000°,δ72.00000°,λ-99.00000°. NP2:ϕ_s360.00000°,δ20.00000°,λ-64.00000°. Principal axes: T 4.4440,Plg26.0000°,Azm250.0000°; N -0.1840,Plg9.0000°,Azm155.0000°; P -4.2650,Plg62.0000°,Azm48.0000° $M_0$4.35500×10^{19}
GUC Error ellipse: s-maj=7.1km s-min=30.3km az=-1.0.
IDC Error ellipse: s-maj=6.7km s-min=4.7km az=69.0.
NEIC Event type se. Moment Tensor Solution. s99 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.60 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$2.61 $M_{r\theta}$-1.76 $M_{\theta\phi}$-0.83 $M_{\phi r}$2.84 Best double couple: NP1:ϕ_s152.00000°,δ71.00000°,λ-99.00000°. NP2:ϕ_s357.00000°,δ21.00000°,λ-66.00000°. Principal axes: T 4.3700,Plg25.0000°,Azm249.0000°; N -0.1200,Plg8.0000°,Azm155.0000°; P -4.2600,Plg63.0000°,Azm47.0000° $M_0$4.30000×10^{19}

(40) California-Nevada border region

NEIC	**I**	**01 23 57 24.0**	**38.83N**	**119.79W**	**1**	**3.5L**		
								¶601988598

NEIC Event type fe. Felt [II] at Markleeville, Pioneer and South Lake Tahoe. Also felt at Foresthill, Georgetown, Homewood, Pollock Pines, Twin Bridges, Volcano and West Point. Felt [II] at Gardnerville, Nevada. Also felt at Carson City, Minden and Reno. After REN.

(227) Eastern Honshu

ISC	**I**	**02 00 42 37.2–.95**	**35.56N–.03**	**138.79E–.04**	**14–7**	**3.6b**	**23**	**0-78**
NIED	I	02 00 42 00	35.60N	138.80E	20	3.7W		¶15902731
IDC	I	02 00 42 34.9–1.1	35.49N	138.66E	0	3.8,3.6b		
ISCJB	I	02 00 42 36.9–.42	35.56N–.03	138.80E–.05	25–5	3.6b,3.5s		
JMA	I	02 00 42 37.3	35.56N	138.78E	17–1	3.9,3.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ18.00000°,λ94.00000°. NP2:ϕ_s340.00000°,δ72.00000°,λ89.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=36.0km s-min=15.8km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.5km az=1.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s17.00000°,δ57.00000°,λ115.00000°. NP2:ϕ_s156.00000°,δ40.00000°,λ56.00000°. Principal axes: T Plg67.0000°,Azm337.0000°; N Plg21.0000°,Azm182.0000°; P Plg9.0000°,Azm89.0000°

(254) Panay

ISC	**I**	**02 06 38 21.1–1.2**	**10.17N–.05**	**122.51E–.06**	**48–15**	**3.5b**	**21**	**1-51**
IDC	I	02 06 38 13.7–1.1	9.83N	122.52E	0	3.8,3.6		¶17189189
MAN	I	02 06 38 19	10.27N	122.55E	52	4.9b,4.0s		
ISCJB	I	02 06 38 20.4–.68	10.18N–.04	122.57E–.06	51–11	3.5b,4.0s		

ISC Event type fe.
MAN Event type fe. INTENSITY III - ILOILO CITY GUIMARAS; INTENSITY I - BINALBAGAN NEGROS OCCIDENTAL.
ISCJB Event type fe.

(267) Halmahera

ISC	**I**	**02 07 29 22.6–.93**	**0.67S–.06**	**127.46E–.05**	**11–6**	**3.5b**	**26**	**0-153**
ISCJB	I	02 07 29 22.0–.58	0.67S–.05	127.48E–.04	16–5	4.1s,3.6b		¶15937906
IDC	I	02 07 29 21.2–.89	0.67S	127.45E	0	4.0,4.0s		
DJA	I	02 07 29 22.6–.40	1S–3.0	127E–4.0	10	3.6,3.6		
NEIC	I	02 07 29 25.8–.54	0.69S	127.53E	35	3.8b,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.5km az=164.7.
IDC Error ellipse: s-maj=33.8km s-min=19.5km az=68.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=9.1km az=53.0. Felt [III] at Labuha.

(159) North Island

ISC	**I**	**02 08 36 49.8–.86**	**41.24S–.03**	**175.25E–.03**	**33–5**		**91**	**0-151**
ISCJB	I	02 08 36 48.8–.36	41.36S–.03	175.35E–.04	45–4	3.1b		¶15902801
NEIC	I	02 08 36 50.3	41.22S	175.24E	29	3.8L		
WEL	I	02 08 36 50.3–.04	41.22S	175.24E	29–0	3.8L		
IDC	I	02 08 36 52.4–5.1	39.20S	174.73E	0	3.6,3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.2km az=135.7.
NEIC Event type fe. Felt at South Wairarapa and Wellington. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=90.0. Felt between Wellington, Marlborough and Wairarapa, maximum reported. intensity MM 5.
IDC Error ellipse: s-maj=300.4km s-min=47.5km az=30.0.

(228) Near east coast of eastern Honshu

ISC	**I**	**02 13 53 40.2–.85**	**40.52N–.04**	**141.44E–.09**	**94–6**	**3.5b**	**33**	**0-72**
ISCJB	I	02 13 53 39.1–.57	40.53N–.03	141.5E–.10	102–3	3.6b		¶17189222
JMA	I	02 13 53 40.8–.10	40.52N	141.40E	91–1	3.3		
IDC	I	02 13 53 41.2–2.2	40.54N	141.55E	109–18	3.6,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=5.7km az=179.3.
JMA Event type fe.
IDC Error ellipse: s-maj=27.7km s-min=14.6km az=86.0.

(73) El Salvador

ISC	**I**	**02 14 11 29.2–.69**	**13.23N–.09**	**90.37W–.08**	**38**	**4.3b,3.5s**	**62**	**1-147**
ISCJB	I	02 14 11 27.3–.57	13.13N–.07	90.44W–.04	38	4.3b,3.5s		¶15927165
CASC	I	02 14 11 28.9–.99	13.19N	90.31W	13–11	4.5b,4.0L		
BJI	I	02 14 11 31.7	13.40N	90.00W	76	4.5b,4.0L		
NEIC	I	02 14 11 33.7–1.4	13.38N	89.98W	76–14	4.5b,4.0		
IDC	I	02 14 11 33.4–2.9	13.34N	89.99W	75–24	3.9,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=4.8km az=9.1.
CASC Error ellipse: s-maj=9.8km s-min=5.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.6km s-min=11.0km az=56.0. Felt [II] at Ahuachapan.
IDC Error ellipse: s-maj=27.5km s-min=15.7km az=56.0.

(136) Central Chile

ISC	**I**	**02 15 12 39.1–.67**	**35.18S–.05**	**71.91W–.06**	**52–6**	**4.6b**	**68**	**1-153**
ISCJB	I	02 15 12 38.7–.45	35.17S–.04	71.93W–.07	63–4	4.5b		¶15964332
SJA	I	02 15 12 39.3–.43	35.23S	71.80W	33	4.8W,4.1L		
IDC	I	02 15 12 39.4–.73	35.11S	71.63W	48–7	4.3,4.2b		
NEIC	I	02 15 12 39.5–.41	35.05S	71.71W	49	4.2b,4.2b		
GUC	I	02 15 12 39.3–.39	35.17S	71.91W	43–2	4.7L,4.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.4km az=24.3.
SJA Error ellipse: s-maj=3.8km s-min=16.2km az=-1.0.
IDC Error ellipse: s-maj=24.6km s-min=13.5km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=82.0. Felt [IV] at Curico, Iloco and Molina; [III] at Linares, Lolol, Mostazal, Navidad, Paredones, Pencahue, Pichilemu, Rancagua, San Fernando, Santa Cruz and Talca; [II] at Codegua, Colbun, Empedrado, Puente Negro and Romeral.
GUC Error ellipse: s-maj=2.5km s-min=3.9km az=-1.0.

(274) Southern Sumatera

ISC	**I**	**02 15 19 31.3–.31**	**4.57S–.03**	**101.32E–.03**	**26–1**	**5.6s,5.6b**	**1164**	**2-175**
BJI	I	02 15 19 24.0	5.07S	101.40E	22	6.0s,5.8		¶15902867
ISCJB	I	02 15 19 27.2–.54	4.58S–.02	101.32E–.02	11–3	5.6s,5.5b		
MOS	I	02 15 19 31.0–1.0	4.33S	101.57E	33	5.7b,5.5s		
GCMT	I	02 15 19 31.0–.10	4.73S	101.22E	21–0	5.8W,5.5s		
NEIC	I	02 15 19 31.0–.49	4.46S	101.43E	22–3	5.7W,5.7b		
IDC	I	02 15 19 31.1–1.5	4.39S	101.49E	22–9	5.5,5.4s		
KLM	I	02 15 19 32.7	4.55S	101.31E	34	6.4s,5.9L		
DJA	I	02 15 19 32.6–.20	5S–1.0	101E–1.0	46–3	6.1,6.0b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c224; s106,c246;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}2.93±.06 $M_{\theta\theta}$-1.63±.04; $M_{\phi\phi}$-1.30±.04; $M_{r\theta}$4.13±.15; $M_{\theta\phi}$1.36±.03; $M_{\phi r}$-3.27±.14; Best double couple: NP1:ϕ_s129.00000°,δ76.00000°,λ89.00000°. NP2:ϕ_s314.00000°,δ14.00000°,λ95.00000°. Principal axes: T 6.0560,Plg59.0000°,Azm37.0000°; N -0.1010,Plg1.0000°,Azm129.0000°; P -5.9540,Plg31.0000°,Azm220.0000° $M_0$6.00500×10^{17}
NEIC Event type fe. Felt [IV] at Bengkulu and [III] at Kapahiang. Also felt at Curup. Moment Tensor Solution. s59 Moment tensor: Scale 10^{17}Nm; M_{rr}3.08 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-2.48 $M_{r\theta}$3.65 $M_{\theta\phi}$0.68 $M_{\phi r}$-1.71 Best double couple: NP1:ϕ_s127.00000°,δ73.00000°,λ75.00000°. NP2:ϕ_s351.00000°,δ23.00000°,λ132.00000°. Principal axes: T 5.4900,Plg59.0000°,Azm16.0000°; N -1.2800,Plg15.0000°,Azm132.0000°; P -4.2100,Plg27.0000°,Azm229.0000° $M_0$5.00000×10^{17}

(227) Eastern Honshu

ISC	**I**	**02 17 59 09.0–1.3**	**38.93N–.04**	**140.63E–.03**	**2–11**		**18**	**0-63**
IDC	I	02 17 59 02.9–5.0	39.61N	140.41E	0	3.5,3.3b		¶600514939
ISCJB	I	02 17 59 08.4–.66	38.92N–.04	140.63E–.04	4–7	3.5b,3.3b		
JMA	I	02 17 59 08.9	38.93N	140.61E	3–1	2.8,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=147.7km s-min=51.8km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.8km az=0.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**I**	**02 19 10 23.3–.48**	**36.80N–.05**	**141.40E–.06**	**35–3**	**4.4b,3.8s**	**154**	**1-147**
NIED	I	02 19 10 00	36.80N	141.50E	38	4.5W,3.8s		¶15902881
BJI	I	02 19 10 19.2	36.29N	141.52E	40	4.8b,4.7b		
ISCJB	I	02 19 10 21.2–.74	36.78N–.03	141.53E–.05	38–5	4.3b,3.8s		
JMA	I	02 19 10 22.6–.10	36.78N	141.38E	49–2	4.3,3.8s		
MOS	I	02 19 10 22.2–1.3	36.83N	141.41E	42	4.6b,3.8s		
IDC	I	02 19 10 23.6–.51	36.74N	141.31E	38–3	4.2L,4.1		
NEIC	I	02 19 10 23.5–.40	36.77N	141.32E	39	4.5b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ6.00000°,λ86.00000°. NP2:ϕ_s36.00000°,δ84.00000°,λ90.00000°. $M_0$5.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.9km az=31.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s41.00000°,δ82.00000°,λ97.00000°. NP2:ϕ_s176.00000°,δ11.00000°,λ46.00000°. Principal axes: T Plg52.0000°,Azm319.0000°; N Plg7.0000°,Azm220.0000°; P Plg37.0000°,Azm124.0000°
MOS Error ellipse: s-maj=10.3km s-min=6.4km az=106.3.
IDC Error ellipse: s-maj=13.4km s-min=11.1km az=117.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=144.0. Recorded [2 JMA] in Fukushima and Ibaraki; [1 JMA] in Chiba, Miyagi and Tochigi.

(267) Halmahera

ISC	**I**	**02 19 11 35.8–.75**	**1.15N–.06**	**127.63E–.05**	**10**	**4.2b,3.0s**	**30**	**0-73**
ISCJB	I	02 19 11 33.6–.50	1.25N–.04	127.61E–.03	10	4.2b,3.1s		¶16026437
IDC	I	02 19 11 33.4–.85	1.09N	127.55E	0	4.1,4.0		
DJA	I	02 19 11 36.9–.60	1N–3.0	128E–2.0	14–3	4.7b,4.5b		
NEIC	I	02 19 11 38.2–.87	0.96N	127.38E	35	4.5b,4.5b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.6km az=17.4.
IDC Error ellipse: s-maj=49.7km s-min=15.2km az=60.0.
NEIC Event type fe. Error ellipse: s-maj=72.2km s-min=10.9km az=69.0. Felt [II] on Pulau Ternate.

(460) Wyoming

ISC	**I**	**02 20 02 28.1–.85**	**43.63N–.04**	**105.12W–.04**	**0**		**44**	**1-68**
IDC	I	02 20 02 27.6–2.1	43.56N	105.31W	0	4.3b,4.1		¶17189237
NEIC	I	02 20 02 28.5–.69	43.62N	105.08W	0	3.1L,4.1		
ISCJB	I	02 20 02 29.3–.75	43.60N–.04	105.31W–.06	0	4.6b,4.1		

ISC Event type sm.
NEIC Event type fm. 75 km [45 miles] WSW of Newcastle. Suspected Mining explosion.
ISCJB Event type fm.

(135) Near coast of central Chile

ISC	**I**	**02 20 20 18.2–.35**	**38.39S–.02**	**73.40W–.04**	**24–2**	**7.1s,6.5b**	**1809**	**0-177**
GUC	I	02 20 20 07.5–.43	38.36S	75.03W	32–4	6.9L,6.5b		¶601988664
IDC	I	02 20 20 13.4–.31	38.44S	73.27W	0	7.0,7.0s		
MOS	I	02 20 20 13.4–1.4	38.40S	73.30W	33	7.0s,6.2b		
ISCJB	I	02 20 20 14.4–.86	38.33S–.02	73.34W–.03	8–5	7.1s,6.3b		
NEIC	I	02 20 20 16.0–.00	38.36S	73.28W	17	7.1s,6.3b		
BJI	I	02 20 20 17.5	38.30S	73.30W	24	7.4,7.4s		
NEIC	I	02 20 20 17.8–.13	38.36S	73.33W	24	7.2W,7.2		
GCMT	I	02 20 20 17.7–.10	38.71S	73.84W	19–0	7.1W,7.2		
NEIC	I	02 20 20 40.6–.00	38.81S	73.67W	10	7.1W,7.2		

ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=10.0km az=91.0.
MOS Error ellipse: s-maj=9.4km s-min=5.4km az=98.6. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s163.00000°,δ84.00000°,λ101.00000°. NP2:

ϕ_s238.00000°,δ12.00000°,λ31.00000°. Principal axes: T Plg50.0000°,Azm85.0000° ; N Plg11.000°,Azm342.0000°; P Plg38.0000°,Azm243.0000° $M_0$1.60000×10^{20}

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=8.7.

NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{19}Nm; M_{rr}2.91 $M_{\theta\theta}$0.13 $M_{\phi\phi}$-3.04 $M_{r\theta}$-0.29 $M_{\theta\phi}$-0.03 $M_{\phi r}$-7.25 Best double couple: NP1:ϕ_s182.00000° ,δ78.00000°,λ90.00000°. NP2:ϕ_s358.00000°,δ11.00000°,λ86.00000°. Principal axes: T 7.7800,Plg56.0000°,Azm93.0000°; N 0.1300,Plg1.0000°,Azm2.0000° ; P -7.9100,Plg34.0000°,Azm272.0000° $M_0$7.80000×10^{19}

NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=75.0. Felt [VII] at Nueva Imperial; [VI] at Curanilahue, Lebu and Tirua; [V] at Angol, Canete, Chiguayante, Coelemu, Concepcion, Hualqi, La Laja, Los Alamos, Los Angeles, San Pedro de la Paz, San Rosendo, Talcahuano and Temuco. Felt throughout central Chile from Santiago to Isla Chiloe. Felt [III] at San Carlos de Bariloche and Neuquen and [II] at Cutral Co, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$6.30000×10^{19} Moment Tensor Solution. s6 Moment tensor: Scale 10^{19}Nm; M_{rr}1.30 $M_{\theta\theta}$0.25 $M_{\phi\phi}$-1.55 $M_{r\theta}$0.59 $M_{\theta\phi}$-0.30 $M_{\phi r}$-3.47 Best double couple: NP1:ϕ_s172.00000°,δ79.00000°,λ82.00000°. NP2:ϕ_s30.00000°,δ13.00000°,λ128.00000°. Principal axes: T 3.7500,Plg55.0000°,Azm71.0000°; N 0.1300,Plg8.0000°,Azm173.0000° ; P -3.8800,Plg34.0000°,Azm269.0000° $M_0$3.80000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s175.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm85.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm265.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c360; s137,c649;Duration: 8s9 Moment tensor: Scale 10^{19}Nm; M_{rr}2.84±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$-2.79±.01; $M_{r\theta}$0.27±.05; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$-5.66±.11; Best double couple: NP1: ϕ_s178.00000°,δ77.00000°,λ88.00000°. NP2:ϕ_s5.00000°,δ13.00000°,λ97.00000°. Principal axes: T 6.3570,Plg58.0000°,Azm86.0000°; N -0.0580,Plg2.0000°,Azm178.0000° ; P -6.2980,Plg32.0000°,Azm269.0000° $M_0$6.32700×10^{19}

NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{19}Nm; M_{rr}2.73 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-2.82 $M_{r\theta}$-0.45 $M_{\theta\phi}$-0.24 $M_{\phi r}$-4.45 Best double couple: NP1:ϕ_s186.00000° ,δ74.00000°,λ91.00000°. NP2:ϕ_s4.00000°,δ16.00000°,λ88.00000°. Principal axes: T 5.2100,Plg61.0000°,Azm96.0000°; N 0.1100,Plg1.0000°,Azm5.0000° ; P -5.3200,Plg29.0000°,Azm275.0000° $M_0$5.30000×10^{19}

(134) Off coast of central Chile

ISC	**I**	**02 21 10 17.1–.36**	**38.35S–.03**	**73.39W–.07**	**18**	**4.9b**	**227**	**2-175**
NEIC	I	02 21 10 12.0	38.38S	74.33W	33	5.1L,4.9b		**¶15902890**
GUC	I	02 21 10 12.1–.35	38.38S	74.33W	33–2	5.1L,4.9b		
MOS	I	02 21 10 14.1–3.9	38.30S	73.60W	33	4.7b,4.9b		
IDC	I	02 21 10 14.1–.56	38.41S	73.59W	0	4.9L,4.5		
ISCJB	I	02 21 10 15.4–.23	38.34S–.03	73.61W–.06	18	6.7s,4.8b		

ISC Event type fe.

NEIC Event type fe. Felt [II] at Lomas San Andres. Also felt at Los Angeles, Temuco and Valdivia. After GUC.

ISCJB Event type fe.

(35) Near coast of northern California

ISC	**I**	**02 22 40 09.5–2.5**	**40.28N–.06**	**124.60W–.09**	**15–12**		**27**	**1-9**
NEIC	I	02 22 40 11.4	40.32N	124.59W	18	3.8L		**¶601792855**

ISC Event type fe.

NEIC Event type fe. Felt [II] at Ferndale, Fortuna and Rio Dell. Also felt at Eureka, Hydesville, Loleta, Petrolia, Scotia and Whitethorn. After NCEDC.

(235) Kyushu

ISC	**I**	**02 23 22 30.1–1.0**	**33.70N–.04**	**130.42E–.04**	**16**		**13**	**0-23**
IDC	I	02 23 22 29.3–1.6	33.80N	130.81E	0	2.8,2.8		**¶17189266**
ISCJB	I	02 23 22 30.5–.65	33.63N–.04	130.44E–.05	16	2.7b,2.8		
JMA	I	02 23 22 30.0	33.67N	130.42E	13	3.8,2.8		

ISC Event type ke.

IDC Error ellipse: s-maj=33.9km s-min=9.0km az=76.0.

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.5km az=137.9.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s295.00000°,δ76.00000°,λ-17.00000°. NP2:ϕ_s30.00000°,δ73.00000°,λ-165.00000°. Principal axes: T Plg2.0000°,Azm343.0000°; N Plg68.0000°,Azm78.0000°; P Plg22.0000° ,Azm252.0000°

(135) Near coast of central Chile

ISC	**I**	**02 23 43 07.2–.47**	**38.30S–.04**	**73.3W–.10**	**18**	**4.7b**	**152**	**0-177**
IDC	I	02 23 43 04.1–.80	38.25S	73.34W	0	5.0L,4.4		**¶15902896**
ISCJB	I	02 23 43 05.8–.23	38.30S–.03	73.29W–.07	18	4.5b,4.4		
NEIC	I	02 23 43 06.0	38.30S	73.51W	17	4.9b,4.7L		
GUC	I	02 23 43 06.0–.62	38.30S	73.51W	17–45	4.7L,4.7L		
BJI	I	02 23 43 07.0	38.30S	73.30W	20	5.4b,5.4s		

ISC Event type fe.

IDC Error ellipse: s-maj=25.5km s-min=16.7km az=63.0.

ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.4km az=2.6.

NEIC Event type fe. Felt at Puerto Montt and Villarrica. After GUC.

GUC Error ellipse: s-maj=10.9km s-min=69.1km az=-1.0.

(233) Near south coast of western Honshu

JMA	**I**	**03 04 19 32.5**	**34.94N**	**135.68E**	**15**	**3.4**		**¶600515114**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s319.00000°,δ87.00000°,λ31.00000°. NP2:ϕ_s227.00000°,δ59.00000°,λ176.00000°. Principal axes: T Plg24.0000°,Azm188.0000°; N Plg59.0000°,Azm325.0000°; P Plg19.0000° ,Azm89.0000°

(226) Near west coast of eastern Honshu

ISC	**I**	**03 04 45 12.0–.62**	**38.55N–.03**	**139.25E–.03**	**17–3**	**4.8b,3.6s**	**259**	**0-151**
NIED	I	03 04 45 00	38.60N	139.30E	11	4.5W,3.6s		**¶15902903**
IDC	I	03 04 45 09.4–.44	38.60N	139.09E	0	4.7,4.6		
ISCJB	I	03 04 45 11.2–.41	38.60N–.02	139.18E–.03	18–3	4.6b,3.6s		
JMA	I	03 04 45 12.1	38.57N	139.26E	12–1	4.7,3.6s		
BJI	I	03 04 45 14.6	38.50N	139.10E	28	5.0b,4.6b		
MOS	I	03 04 45 14.7–1.2	38.55N	139.12E	48	4.9b,4.6b		
NEIC	I	03 04 45 15.3–.52	38.57N	139.10E	39–5	4.8b,4.6b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ29.00000°,λ78.00000°. NP2:ϕ_s25.00000°,δ62.00000°,λ96.00000°. $M_0$6.29000×10^{15}

IDC Error ellipse: s-maj=13.6km s-min=11.1km az=112.0.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=141.8.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s223.00000°,δ46.00000°,λ94.00000°. NP2:ϕ_s37.00000°,δ44.00000°,λ86.00000°. Principal axes: T Plg87.0000°,Azm202.0000°; N Plg3.0000°,Azm40.0000°; P Plg1.0000° ,Azm310.0000°

MOS Error ellipse: s-maj=7.8km s-min=4.8km az=101.8.

NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=130.0. Recorded [4 JMA] in Niigata; [2 JMA] in Fukushima and Yamagata; [1 JMA] in Akita, Gumma and Miyagi.

(478) Utah

ISC	**I**	**03 12 06 37.9–1.3**	**38.23N–.03**	**112.28W–.03**	**8–8**	**4.7b,4.0s**	**490**	**0-123**
BJI	I	03 12 06 33.1	37.95N	112.59W	5	5.4b,5.1s		**¶15902919**
ISCJB	I	03 12 06 36.3–.11	38.23N–.01	112.25W–.01	10	4.6b,4.0s		
NEIC	I	03 12 06 36.0	38.25N	112.34W	5	4.6L,4.6W		
MOS	I	03 12 06 36.3–1.3	38.20N	112.30W	10	4.8b,4.6W		
IDC	I	03 12 06 36.3–.38	38.20N	112.33W	0	4.5,4.5b		
GCMT	I	03 12 06 36.0–.50	38.21N	112.30W	12	4.8W,4.5b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=174.5.

NEIC Event type fe. Felt [IV] at Kingston and Panguitch; [III] at Beaver and Marysvale; [II] at Milford, Monroe and Parowan. Also felt at Antimony, Beryl, Cedar City, Draper, Greenville, Joseph, Kanab, Loa, Modena, Richfield, Saint George, Salt Lake City, Sandy, Saratoga Springs, Sevier, Tooele and Torrey. Felt [II] at Page, Arizona. Also felt at Flagstaff. Felt at Henderson, Las Vegas and Mesquite, Nevada. After SLC. Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ28.00000°,λ-133.00000°. NP2:ϕ_s50.00000° ,δ70.00000°,λ-70.00000°. Principal axes: T 1.0000,Plg22.0000°,Azm125.0000° ; N 0.0000,Plg19.0000°,Azm223.0000°; P -1.0000,Plg60.0000°,Azm349.0000°

MOS Error ellipse: s-maj=9.9km s-min=5.9km az=95.1.

IDC Error ellipse: s-maj=8.1km s-min=6.0km az=37.0.

GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s72,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.81±.12 $M_{\theta\theta}$0.57±.11; $M_{\phi\phi}$1.37±.10; $M_{r\theta}$-0.96±.42; $M_{\theta\phi}$0.99±.08; $M_{\phi r}$-0.54±.34; Best double couple: NP1:ϕ_s57.00000°,δ73.00000° ,λ-48.00000°. NP2:ϕ_s164.00000°,δ44.00000°,λ-156.00000°. Principal axes: T 2.0650,Plg18.0000°,Azm117.0000°; N -0.3830,Plg40.0000°,Azm222.0000° ; P -1.6850,Plg45.0000°,Azm8.0000° $M_0$1.87500×10^{16}

(460) Wyoming

ISC	**I**	**03 20 17 31.0–.69**	**43.58N–.05**	**105.06W–.05**	**0**	**4.1b**	**56**	**1-82**
ISCJB	I	03 20 17 29.9–.40	43.62N–.03	105.16W–.05	0	3.9b,3.8s		**¶17189359**
IDC	I	03 20 17 30.9–1.0	43.45N	105.31W	0	3.9b,3.8		
NEIC	I	03 20 17 31.6–.37	43.57N	105.16W	0	3.3L,3.8		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=5.1km s-min=5.0km az=148.2.

IDC Error ellipse: s-maj=22.1km s-min=8.7km az=151.0.

NEIC Event type fm. Error ellipse: s-maj=5.1km s-min=4.5km az=64.0. 83 km [52 miles] WSW of Newcastle. Suspected Mining explosion.

(478) Utah

ISC	**I**	**03 20 23 45.7–.92**	**38.33N–.04**	**112.49W–.03**	**7**		**36**	**0-24**
ISCJB	I	03 20 23 44.9–.44	38.30N–.04	112.43W–.05	7	3.0b		**¶16031096**
IDC	I	03 20 23 44.4–1.4	38.27N	112.49W	0	3.2,3.2b		
NEIC	I	03 20 23 45.0	38.24N	112.34W	2	3.2L,3.2b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.6km az=27.2.

IDC Error ellipse: s-maj=16.5km s-min=9.9km az=163.0.

NEIC Event type fe. Felt at Beaver, Monroe, Nephi and Teasdale. After SLC.

(533) United Kingdom

ISC	**I**	**03 21 03 07.0–.79**	**54.22N–.02**	**1.48W–.03**	**25–6**		**321**	**0-51**
NAO	I	03 21 03 06.8–6.0	54.27N	1.11W		2.8L		**¶15902942**
CSEM	I	03 21 03 06.3–.12	54.18N	1.45W	10	3.6L		
IDC	I	03 21 03 06.6–1.6	54.26N	1.46W	0	3.4,3.4b		
LDG	I	03 21 03 08.6–.14	54.13N	1.53W	10	3.7L,3.4b		
NEIC	I	03 21 03 09.4	54.17N	1.65W	6	3.6L,3.4b		
BGS	I	03 21 03 28.8–1.1	54.17N	1.65W	7	2.6L,3.4b		

ISC Event type fe.

NAO Error ellipse: s-maj=0.6km s-min=0.2km az=-1.0.

CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=82.0.

IDC Error ellipse: s-maj=25.3km s-min=13.0km az=36.0.

LDG Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=61.0.

NEIC Event type fe. Felt [III] at Bedale, Bingley, Boroughbridge, Harrogate, Leyburn, Northallerton, Ripon, Settle and Thirsk; [II] at Baildon, Batley, Bradford, Halifax, Hebden Bridge, Huddersfield, Ilkley, Keighley, Kendal, Hull, Leeds, Newcastle, Skipton, Stockton-on-Tees, Wakefield and York. Felt widely in northern England. After BGS.

BGS Error ellipse: s-maj=14.0km s-min=33.6km az=-1.0.

(249) Luzon

MAN	**I**	**03 22 19 29**	**18.37N**	**120.88E**	**6**	**4.5b,3.3L**		**¶601668374**

MAN Event type fe. INTENSITY II - LAOAG CITY; PASUQUIN ILOCOS NORTE.

(73) El Salvador

ISC	**I**	**04 00 49 40.8–.32**	**13.06N–.04**	**89.21W–.04**	**54–2**	**4.7b,3.9s**	**838**	**0-150**
NEIC	I	04 00 49 41.5	13.06N	89.27W	51	5.3,4.8b		**¶15927172**
CASC	I	04 00 49 41.5–2.5	13.00N	89.25W	40–42	5.0L,4.8b		
IDC	I	04 00 49 41.6–.41	13.34N	88.74W	55–2	4.4,4.3		
ISCJB	I	04 00 49 42.3–.27	13.18N–.03	89.11W–.03	73–2	4.6b,4.3		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Antiguo Cuscatlan and San Salvador and [III] at Mejicanos and Nueva San Salvador. Also felt at Colon, Ilopango, Nuevo Cuscatlan, San Luis la Herradura, Santa Ana, Santiago de Maria, Santiago Nonualco, Santo Tomas and Zacatecoluca. After SNET.

ISCJB Event type fe.

(377) Spain

ISC	**I**	**04 00 54 47.6–1.5**	**42.62N–.03**	**9.38W–.05**	**14–9**		**229**	**0-10**
CSEM	I	04 00 54 49.1–.22	42.62N	9.23W	10	3.1L		**¶15902947**
LDG	I	04 00 54 50.7–.23	42.66N	9.22W	10	3.1L		
MDD	I	04 00 54 50.4–.82	42.60N	9.23W	6–4	2.7		
INMG	I	04 00 54 51.0–1.8	42.60N	9.20W	3–4	2.7,2.6L		
IGIL	I	04 00 54 51.2	42.61N	9.19W	9	2.3L,2.6L		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.4km az=103.0.

LDG Event type ke. Error ellipse: s-maj=4.9km s-min=2.5km az=98.0.

MDD Event type fe. Error ellipse: s-maj=7.2km s-min=3.9km az=97.0. EMS: II INTENSIDAD MAXIMA. PRXIMO.

INMG Event type ke. Error ellipse: s-maj=6.0km s-min=2.6km az=83.0.

(197) Near north coast of Irian Jaya

ISC	**I**	**04 02 36 29.8–.52**	**2.45S–.04**	**140.15E–.05**	**30–3**	**4.8b,3.9s**	**192**	**0-160**
IDC	I	04 02 36 25.1–.44	2.35S	140.19E	0	4.7,4.6		**¶15902951**
MOS	I	04 02 36 28.1–1.1	2.42S	140.27E	33	5.0b,4.6		
ISCJB	I	04 02 36 28.0–.57	2.44S–.03	140.30E–.04	30–4	4.7b,3.9s		
BJI	I	04 02 36 29.1	2.55S	140.24E	46	5.1b,4.8s		
NEIC	I	04 02 36 31.0–.82	2.45S	140.12E	40–8	4.9b,4.8s		
DJA	I	04 02 36 31.3–.70	2S–4.0	140E–4.0	17–4	7.2,5.7b		

ISC Event type fe.

ISCJB Event type fe.

NEIC Event type fe. Felt [III] at Genyem and Jayapura.

(249) Luzon

ISC	**I**	**04 06 51 02.1–1.3**	**12.07N–.04**	**122.17E–.04**	**6–9**	**3.8b**	**34**	**0-149**
IDC	I	04 06 51 01.4–.70	12.03N	122.22E	0	4.1,3.9		**¶16032743**
NEIC	I	04 06 51 02.9–.42	12.01N	122.18E	10	4.3b,3.9		
ISCJB	I	04 06 51 03.8–.57	12.11N–.03	122.13E–.03	25–5	3.9b,3.9		
MAN	I	04 06 51 03	12.15N	122.09E	12	4.7b,3.6L		

ISC Event type fe.

IDC Error ellipse: s-maj=38.3km s-min=15.4km az=66.0.

NEIC Event type fe. Error ellipse: s-maj=22.2km s-min=9.0km az=64.0. Felt [III PIVS] at Odiongan and [II PIVS] at Caticlan.

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.5km az=136.8.

MAN Event type fe. INTENSITY III - ODIONGAN ROMBLON; INTENSITY II - CATICLAN AKLAN.

(162) South Island

WEL	**I**	**04 14 12 02.8–.07**	**43.63S**	**172.44E**	**5**	**3.5L**		**¶600661694**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA	**I**	**04 14 16 32.7–.10**	**37.17N**	**141.22E**	**86–1**	**3.7**		
NIED	I	04 14 16 00	37.20N	141.30E	65	3.5W		**¶600515629**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s205.00000°,δ63.00000°,λ-111.00000°. NP2: ϕ_s67.00000°,δ34.00000°,λ-54.00000°. Principal axes: T Plg16.0000°,Azm311.0000° ; N Plg19.0000°,Azm215.0000°; P Plg65.0000°,Azm78.0000°

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ63.00000°,λ-159.00000°. NP2:ϕ_s104.00000°,δ71.00000°,λ-29.00000°. $M_0$2.04000×10^{14}

(162) South Island

ISC	**I**	**04 17 20 05.2–.96**	**43.59S–.03**	**171.88E–.03**	**14–7**		**71**	**0-149**
ISCJB	I	04 17 20 05.5–.46	43.60S–.03	171.93E–.04	26–4	3.5b		**¶15905608**
WEL	I	04 17 20 05.8–.12	43.58S	171.88E	5	3.8L		
IDC	I	04 17 20 05.4–11	42.90S	171.85E	0	3.8,3.6		
NEIC	I	04 17 20 06.6	43.52S	171.91E	12	3.8L,3.6		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=146.6.

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

IDC Error ellipse: s-maj=611.6km s-min=65.9km az=4.0.

NEIC Event type fe. Felt at Hororata. After WEL.

(499) Oklahoma

ISC	**I**	**04 18 31 35.5–.80**	**35.55N–.02**	**97.25W–.01**	**10–5**		**145**	**0-9**
IASPE	I	04 18 31 35.7–.85	35.55N–.02	97.25W–.02	12–5			**¶601792860**
NEIC	I	04 18 31 36.0	35.56N	97.24W	4	2.9		

ISC Event type fe.

IASPE Event type fe. Error ellipse: s-maj=3.4km s-min=3.2km az=70.1. GT5 selection from ISC bulletin. GT5 identified by Bond¨¡r and McLaughlin (2009) selection criteria. Bond¨¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.

NEIC Event type fe. Felt [IV] at Harrah and [III] at Choctaw. Also felt at Edmond, Newalla, Oklahoma City, Shawnee and Spencer. After TUL.

(127) Chile-Argentina border region

ISC	**I**	**04 22 59 11.5–.28**	**29.13S–.03**	**69.75W–.04**	**130–2**	**5.1b**	**945**	**1-176**
ISCJB	I	04 22 59 08.9–.24	29.05S–.02	69.58W–.03	117–2	5.0b		**¶15905612**
MOS	I	04 22 59 08.5–1.0	29.01S	69.51W	109	5.0b		
SJA	I	04 22 59 08.3–1.1	29.08S	69.79W	134–8	5.3L,5.0W		
GUC	I	04 22 59 09.2–.66	29.18S	69.79W	128–13	5.9L,5.8W		

GCMT I 04 22 59 09.0–.20 29.28S 69.91W 130–1 5.3W,5.8W
NEIC I 04 22 59 10.0 29.04S 69.49W 110 5.1,5.1b
IDC I 04 22 59 11.8–.41 29.04S 69.61W 131–3 4.9,4.6
BJI I 04 22 59 12.2 29.00S 69.50W 111 5.2b,4.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=162.5.
MOS Error ellipse: s-maj=15.9km s-min=8.4km az=105.9.
SJA Error ellipse: s-maj=4.5km s-min=5.5km az=-1.0. Moment Tensor Solution. NP1:ϕ_s7.00000° ,δ0.00000°,λ7.00000°.
GUC Error ellipse: s-maj=1.9km s-min=13.8km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c131; s98,c177;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.90±.02 $M_{\theta\theta}$-0.01±.02; $M_{\phi\phi}$-0.88±.03; $M_{r\theta}$0.58±.01; $M_{\theta\phi}$0.21±.02; $M_{\phi r}$-0.32±.02; Best double couple: NP1: ϕ_s144.00000°,δ62.00000°,λ67.00000°. NP2:ϕ_s7.00000°,δ35.00000°,λ127.00000°. Principal axes: T 1.1960,Plg65.0000°,Azm13.0000°; N -0.1510,Plg20.0000°,Azm155.0000° ; P -1.0440,Plg14.0000°,Azm251.0000° M_o1.12000×10^{17}
NEIC Event type fe. Felt [III] in San Juan and southwestern La Rioja. Also felt at Mendoza. Felt [IV] at Alto del Carmen, Coquimbo, La Higuera, La Serena and Vallenar; [III] at Andacollo, Combarbala, Copiapo, Freirina, Monte Patria, Ovalle, Paiguano, Rio Hurtado, Tierra Amarilla and Vicuna; [II] at Punitaqui and Santiago, Chile. Also felt at Valparaiso and Vina del Mar. After SJA.
IDC Error ellipse: s-maj=13.8km s-min=8.4km az=64.0.

(162) South Island

WEL	**I**	**05 00 00 50.4–.07**	**43.59S**	**172.64E**	**6–0**	**3.7L**		**¶15905614**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(134) Off coast of central Chile

ISC	**I**	**05 04 22 11.9–.53**	**38.33S–.05**	**75.03W–.08**	**35**	**4.4b,3.5s**	**58**	**1-174**
IDC	I	05 04 22 06.3–.73	38.36S	75.23W	0	4.2,4.0		**¶15927176**
ISCJB	I	05 04 22 10.4–.40	38.35S–.04	74.94W–.05	33	4.3b,3.4s		
GUC	I	05 04 22 10.4–.60	38.18S	74.88W	22–6	4.0L,3.4s		
NEIC	I	05 04 22 10.0	38.18S	74.88W	22	4.3b,4.0L		

ISC Event type fe.
IDC Error ellipse: s-maj=26.2km s-min=17.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.1km az=156.5.
GUC Error ellipse: s-maj=2.4km s-min=7.5km az=-1.0.
NEIC Event type fe. Felt [III] at San Pedro. After GUC.

(348) Northern and central Iran

ISC	**I**	**05 05 55 47.6–.52**	**30.16N–.03**	**51.82E–.03**	**10–3**	**5.3b,5.0s**	**1281**	**0-134**
ISN	I	05 05 55 21.1–2.1	30.39N	53.79E	0	5.3L,5.0s		**¶15905623**
ISCJB	I	05 05 55 44.6–.50	30.12N–.02	51.75E–.01	1–3	5.3b,5.0s		
BJI	I	05 05 55 44.2	30.10N	51.80E	10	5.4s,5.1		
IDC	I	05 05 55 45.5–.36	30.19N	51.74E	0	5.0,4.9		
MOS	I	05 05 55 46.5–1.3	30.13N	51.71E	16	5.2b,4.7s		
GCMT	I	05 05 55 47.4–.10	30.08N	51.56E	21–0	5.4W,4.7s		
CSEM	I	05 05 55 47.7–.08	30.17N	51.77E	10	5.4b,5.3s		
DSN	I	05 05 55 48.5–.42	30.16N	51.81E	10	5.6s,5.1b		
THR	I	05 05 55 48.5–.73	30.19N	52.03E	14–13	5.2L,5.1b		
NEIC	I	05 05 55 48.4–1.9	30.15N	51.79E	16–12	5.4b,5.3		
TEH	I	05 05 55 49.3	30.18N	51.70E	16	5.2L,5.3		
OMAN	I	05 05 55 51.2–2.5	29.67N	52.26E	0	5.2L,5.3		

ISC Event type fe.
ISN Error ellipse: s-maj=13.7km s-min=35.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=21.2.
IDC Error ellipse: s-maj=9.7km s-min=8.9km az=17.0.
MOS Error ellipse: s-maj=5.8km s-min=3.4km az=105.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c143; s117,c235; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$0.24±.02; $M_{\phi\phi}$-0.21±.02; $M_{r\theta}$0.14±.04; $M_{\theta\phi}$1.41±.02; $M_{\phi r}$-0.15±.04; Best double couple: NP1:ϕ_s274.00000°,δ84.00000° ,λ-6.00000°. NP2:ϕ_s5.00000°,δ84.00000°,λ-174.00000°. Principal axes: T 1.4450,Plg0.0000° ,Azm320.0000°; N -0.0030,Plg82.0000°,Azm53.0000°; P -1.4430,Plg8.0000°,Azm230.0000° M_o1.44400×10^{17}
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=28.0.
DSN Error ellipse: s-maj=14.5km s-min=3.8km az=63.0.
THR Error ellipse: s-maj=4.6km s-min=5.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=195.0. Felt [III] at Shiraz. Also felt at Bandar Bushehr.
OMAN Error ellipse: s-maj=42.9km s-min=23.3km az=43.0.

(189) Southeast of Loyalty Islands

ISC	**I**	**05 06 46 15.4–.23**	**22.30S–.03**	**171.68E–.03**	**123–1**	**5.9b**	**1433**	**4-169**
GCMT	I	05 06 46 14.6–.10	22.48S	171.58E	126–0	6.1W		**¶16021252**
ISCJB	I	05 06 46 14.7–.59	22.34S–.02	171.56E–.02	125–5	5.9b		
NEIC	I	05 06 46 14.6–.10	22.26S	171.63E	112	6.1W,5.8b		
IDC	I	05 06 46 14.9–.29	22.27S	171.63E	117–2	5.9,5.6		
BJI	I	05 06 46 16.2	22.30S	171.60E	136	6.1b,5.8b		
NEIC	I	05 06 46 17.0–.00	22.30S	171.60E	135	6.1b,5.8b		
MOS	I	05 06 46 17.1–1.4	22.24S	171.56E	143	5.8b,5.3s		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s137,c320; s141,c511;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.53±.01 $M_{\theta\theta}$-1.18±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$0.94±.01; $M_{\theta\phi}$0.63±.01; $M_{\phi r}$0.77±.01; Best double couple: NP1:ϕ_s68.00000°,δ77.00000°,λ48.00000°. NP2:ϕ_s324.00000° ,δ44.00000°,λ161.00000°. Principal axes: T 1.7750,Plg42.0000°,Azm298.0000° ; N -0.1430,Plg41.0000°,Azm80.0000°; P -1.6330,Plg21.0000°,Azm189.0000° M_o1.70400×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=10.8.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.2km az=118.0. Felt at Noumea and We, New Caledonia.
IDC Error ellipse: s-maj=8.0km s-min=6.4km az=174.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ80.00000° ,λ53.00000°. NP2:ϕ_s323.00000°,δ37.00000°,λ164.00000°. Principal axes: T 1.6000,Plg43.0000°,Azm301.0000°; N -0.2200,Plg36.0000°,Azm73.0000° ; P -1.3800,Plg26.0000°,Azm184.0000°
MOS Error ellipse: s-maj=8.4km s-min=7.0km az=123.1.

(135) Near coast of central Chile

ISC	**I**	**05 07 04 59.4–1.9**	**38.25S–.04**	**73.7W–.10**	**14–10**	**4.1b**	**21**	**1-160**
ISCJB	I	05 07 05 00.6–1.5	38.29S–.04	73.6W–.20	27–9	4.0b		**¶16032746**
NEIC	I	05 07 05 00.0	38.28S	73.50W	26	4.2L		
GUC	I	05 07 05 00.7–.57	38.28S	73.50W	26–4	4.2L		
IDC	I	05 07 05 12.6–3.2	38.29S	71.58W	75–31	4.1s,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=24.1km s-min=5.6km az=5.7.
NEIC Event type fe. Felt [III] at Angol, Curanilahue, La Laja, Mulchen, Nacimiento, Santa Barbara and Tirua; [II] at Arauco, Lebu and Puren. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=10.0km az=-1.0.
IDC Error ellipse: s-maj=53.4km s-min=25.8km az=75.0.

(543) Germany

ISC	**I**	**05 08 33 40.7–.68**	**51.45N–.01**	**6.52E–.02**	**0**		**322**	**0-8**
ISCJB	I	05 08 33 39.6–.25	51.43N–.01	6.41E–.03	0			**¶15908123**
BUG	I	05 08 33 41.1	51.46N	6.54E	1	3.1L		
CSEM	I	05 08 33 41.3–.14	51.48N	6.56E	1	3.8L		
PRU	I	05 08 33 41.6	51.47N	6.54E	0	3.8L		
LDG	I	05 08 33 42.2–.09	51.49N	6.64E	1	3.7L		
UCC	I	05 08 33 42.1	51.52N	6.60E	7	3.1L		
BGR	I	05 08 33 43.0–.22	51.48N	6.65E	1	3.2L		
BNS	I	05 08 33 43.1–1.6	51.45N	6.61E	1–36	3.1L		
STR	I	05 08 33 46.4–.20	51.22N	6.50E	1	3.3L		

ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=2.5km s-min=1.7km az=31.7.
GDNRW Event type fi.
CSEM Event type ki. Error ellipse: s-maj=2.8km s-min=2.2km az=140.0.
LDG Event type sr. Error ellipse: s-maj=2.0km s-min=1.4km az=145.0. Suspected Mining induced.
UCC Event type ki.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=113.0.
BNS Event type ki.
STR Event type ke.

(274) Southern Sumatera

ISC	**I**	**05 10 15 38.0–.49**	**2.66S–.03**	**100.01E–.03**	**26–3**	**5.4b,5.0s**	**890**	**0-158**
BJI	I	05 10 15 32.2	2.76S	100.09E	7	5.6b,5.5b		**¶15905631**
IDC	I	05 10 15 34.1–.32	2.60S	100.06E	0	5.1,5.0		
MOS	I	05 10 15 34.2–3.3	2.60S	100.10E	33	5.7b,4.9s		
GCMT	I	05 10 15 35.9–.30	2.97S	99.75E	33–1	5.3W,4.9s		
NEIC	I	05 10 15 35.9–1.5	2.65S	100.00E	13–8	5.4b,4.9s		
ISCJB	I	05 10 15 35.3–.64	2.64S–.02	99.94E–.02	18–4	5.4b,5.0s		
KLM	I	05 10 15 38.6	2.73S	99.84E	47	6.3s,5.5b		
DJA	I	05 10 15 39.2–.60	3S–2.0	100E–2.0	25–5	5.9,5.8b		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c93; s65,c89;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.03 $M_{\theta\theta}$-0.57±.02; $M_{\phi\phi}$-0.22±.03; $M_{r\theta}$0.57±.04; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-0.54±.04; Best double couple: NP1:ϕ_s129.00000°,δ68.00000°,λ96.00000°. NP2:ϕ_s294.00000°,δ23.00000°,λ76.00000°. Principal axes: T 1.1340,Plg67.0000°,Azm50.0000°; N -0.0460,Plg6.0000°,Azm307.0000° ; P -1.0880,Plg22.0000°,Azm215.0000° M_o1.11100×10^{17}
NEIC Event type fe. Felt [III] at Padang, Painan and Pariaman.
ISCJB Event type fe.

(60) Oaxaca

ISC	**I**	**05 14 45 40.0–.78**	**16.38N–.05**	**98.18W–.04**	**31–5**	**4.5b**	**340**	**1-141**
MEX	I	05 14 45 38.9–.44	16.27N	98.26W	8–5	4.5		**¶16031117**
NEIC	I	05 14 45 41.9–.51	16.51N	97.92W	33	4.5,4.5b		
IDC	I	05 14 45 41.5–4.9	16.50N	98.02W	33–35	4.1,4.1		

ISC Event type fe.
MEX Error ellipse: s-maj=4.0km s-min=2.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=5.6km az=213.0. Felt at Oaxaca and Puerto Escondido.
IDC Error ellipse: s-maj=34.8km s-min=13.9km az=47.0.

(74) Near coast of Nicaragua

ISC	**I**	**05 18 31 43.8–.64**	**11.43N–.05**	**86.52W–.05**	**45–5**	**5.0b,4.5s**	**856**	**1-165**
IDC	I	05 18 31 37.5–.38	11.57N	86.41W	0	4.7,4.6		**¶15906146**
MOS	I	05 18 31 42.8–1.2	11.54N	86.34W	51	4.8b,4.6		
ISCJB	I	05 18 31 42.4–.44	11.46N–.03	86.56W–.03	50–3	4.9b,4.5s		
CASC	I	05 18 31 43.4–.78	11.28N	86.86W	34–279	5.1b,4.1L		
GCMT	I	05 18 31 44.2–.30	10.88N	87.19W	20–0	5.1W,4.1L		
NEIC	I	05 18 31 44.2–.75	11.34N	86.63W	49–6	5.1b,4.1L		
BJI	I	05 18 31 45.9	11.40N	86.60W	64	5.3b,5.2s		

ISC Event type fe.
IDC Error ellipse: s-maj=20.4km s-min=9.0km az=54.0.
MOS Error ellipse: s-maj=15.0km s-min=7.8km az=121.4.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=2.8km az=34.7.
CASC Error ellipse: s-maj=140.1km s-min=104.4km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c78; s94,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.71±.16 $M_{\theta\theta}$-2.59±.12; $M_{\phi\phi}$-1.12±.12; $M_{r\theta}$2.77±.22; $M_{\theta\phi}$1.87±.08; $M_{\phi r}$-2.44±.25; Best double couple: NP1:ϕ_s129.00000°,δ67.00000° ,λ94.00000°. NP2:ϕ_s299.00000°,δ23.00000°,λ80.00000°. Principal axes: T 5.2270,Plg68.0000°,Azm47.0000°; N 0.1240,Plg4.0000°,Azm308.0000° ; P -5.3510,Plg22.0000°,Azm216.0000° M_o5.28900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=3.7km az=214.0. Felt at San Salvador, El Salvador and at Nandayure, Costa Rica.

(460) Wyoming

ISC	**I**	**05 21 01 11.6–.74**	**43.61N–.03**	**105.33W–.03**	**0**		**55**	**1-20**
ISCJB	I	05 21 01 10.3–.37	43.63N–.03	105.36W–.03	0			**¶17189539**
IDC	I	05 21 01 11.8–2.0	43.57N	105.31W	0	3.5,3.3		
NEIC	I	05 21 01 12.0–.50	43.62N	105.26W	0	3.2L,3.3		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.7km s-min=3.5km az=8.7.
IDC Error ellipse: s-maj=49.8km s-min=8.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=6.5km s-min=5.9km az=211.0. 77 km [48 miles] SSE of Gillette. Suspected Mining explosion.

(266) Northern Molucca Sea

ISC	**I**	**06 03 01 38.8–.65**	**1.29N–.04**	**126.44E–.04**	**56–6**	**4.9b,3.7s**	**253**	**1-159**
BJI	I	06 03 01 29.5	0.52N	126.59E	47	5.0b,4.8b		**¶15906297**
MOS	I	06 03 01 35.6–1.0	1.26N	126.26E	46	5.0b,4.8b		
ISCJB	I	06 03 01 37.4–.41	1.30N–.03	126.43E–.03	60–4	4.8b,3.6s		
NEIC	I	06 03 01 37.8–.65	1.30N	126.43E	51–6	4.9b,3.6s		
DJA	I	06 03 01 37.6–1.0	1N–3.0	126E–2.0	20–12	5.3b,4.9b		
IDC	I	06 03 01 39.0–1.9	1.24N	126.38E	61–16	4.7,4.5		

ISC Event type fe.
MOS Error ellipse: s-maj=15.6km s-min=6.4km az=113.3.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=140.8.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=58.0. Felt [II] on Pulau Ternate, Indonesia.
IDC Error ellipse: s-maj=15.0km s-min=7.5km az=72.0.

(159) North Island

ISC	**I**	**06 06 41 58.2–.77**	**38.85S–.05**	**175.04E–.05**	**238–5**	**3.8b**	**228**	**0-150**
ISCJB	I	06 06 41 57.7–.42	38.87S–.04	175.01E–.05	239–3	3.8b		**¶15907149**
WEL	I	06 06 41 58.8–.35	38.78S	175.11E	237–3	5.0L		
IDC	I	06 06 41 58.3–.70	38.49S	175.36E	240–12	4.1,3.7		
NEIC	I	06 06 41 58.4	38.77S	175.09E	241	5.1,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=38.5.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.3km az=90.0. Felt from Bay of Plenty to Wellington, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=29.6km s-min=17.5km az=55.0.
NEIC Event type fe. Lightly felt in the eastern part of the North Island. After WEL.

(162) South Island

WEL	**I**	**06 07 59 54.1–.09**	**43.55S**	**172.30E**	**8–1**	**3.8L**		
NEIC	I	06 07 59 54.1	43.58S	172.32E	9	3.9L		**¶15907151**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.

(134) Off coast of central Chile

ISC	**I**	**07 02 30 32.2–.46**	**35.76S–.04**	**73.40W–.06**	**10**	**4.5b,4.2s**	**95**	**1-178**
ISCJB	I	07 02 30 30.8–.31	35.80S–.03	73.37W–.05	10	4.5b,4.0s		**¶15908417**
GUC	I	07 02 30 30.7–.64	35.83S	73.66W	36–5	4.4L,4.0s		
IDC	I	07 02 30 30.5–.65	35.80S	73.23W	0	4.5,4.4b		
NEIC	I	07 02 30 32.4–.28	35.76S	73.11W	10	4.5b,4.4L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=14.0.
GUC Error ellipse: s-maj=3.3km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=13.3km az=83.0.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.7km az=79.0. Felt [II] at Rancagua.

(135) Near coast of central Chile

ISC	**I**	**07 03 32 33.6–.53**	**38.50S–.04**	**73.9W–.10**	**35**	**4.3b,3.6s**	**57**	**1-161**
IDC	I	07 03 32 29.5–.63	38.52S	73.73W	0	4.5L,4.3		**¶15981221**
NEIC	I	07 03 32 31.0	38.53S	73.66W	30	4.4L,4.4b		
GUC	I	07 03 32 31.5–.69	38.53S	73.66W	30–5	4.4L,4.4b		
ISCJB	I	07 03 32 32.5–.36	38.52S–.03	73.70W–.09	33	4.2b,3.7s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Puerto Saavedra, Temuco and Tolten; [III] at Pucon; [II] at Lanco and Tirua. After GUC.
ISCJB Event type fe.

(125) Southern Bolivia

ISC	**I**	**07 04 55 58.3–.34**	**21.83S–.03**	**65.44W–.04**	**304–3**	**5.1b**	**1005**	**1-171**
SCB	I	07 04 55 50.7–.60	21.50S	65.12W	315	5.0L		**¶15908420**
ISCJB	I	07 04 55 56.1–.26	21.70S–.02	65.41W–.03	290–2	5.0b		
NEIC	I	07 04 55 57.3–.47	21.78S	65.34W	290–4	5.1b		
BJI	I	07 04 55 57.6	21.80S	65.30W	283	5.4b		
MOS	I	07 04 55 57.3–1.0	21.74S	65.42W	302	5.0b		
IDC	I	07 04 55 58.3–.46	21.81S	65.42W	302–3	5.1,4.6		
GUC	I	07 04 55 58.2–.25	21.87S	65.87W	290	6.8L,5.7W		
SJA	I	07 04 55 58.3–1.2	21.87S	65.55W	303–15	5.1L,4.8W		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=74.5km s-min=12.9km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=142.7.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.7km az=59.0. Felt at Antofagasta, Chile.
MOS Error ellipse: s-maj=15.7km s-min=8.0km az=116.2.
IDC Error ellipse: s-maj=9.7km s-min=8.0km az=57.0.
GUC Error ellipse: s-maj=5.9km s-min=4.2km az=-1.0.
SJA Error ellipse: s-maj=6.0km s-min=8.6km az=-1.0.

(235) Kyushu

ISC	**I**	**07 09 05 37.4–.95**	**32.55N–.05**	**130.60E–.06**	**17–7**	**3.5b**	**17**	**0-68**
NIED	I	07 09 05 00	32.60N	130.60E	11	3.8W		**¶15908758**
IDC	I	07 09 05 34.6–1.2	32.49N	130.51E	0	3.6,3.5		
ISCJB	I	07 09 05 37.0–.49	32.57N–.04	130.63E–.06	26–4	3.5b,3.0s		
JMA	I	07 09 05 37.8	32.57N	130.61E	16–1	3.9,3.0s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ53.00000°,λ-159.00000°. NP2:ϕ_s114.00000°,δ74.00000°,λ-39.00000°. $M_0$6.14000×10^{14}

IDC Error ellipse: s-maj=23.9km s-min=10.8km az=116.0.

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.9km az=167.2.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s121.00000°,δ88.00000°,λ-27.00000°. NP2:ϕ_s212.00000°,δ63.00000°,λ-178.00000°. Principal axes: T Plg17.0000°,Azm169.0000°; N Plg63.0000°,Azm297.0000°; P Plg20.0000°,Azm73.0000°

(134) Off coast of central Chile

ISC	**I**	**07 09 42 18.5–.30**	**35.78S–.03**	**73.41W–.05**	**10**	**5.2s,5.0b**	**499**	**1-178**
GUC	I	07 09 42 15.9–.45	35.71S	73.72W	18–7	5.6L,5.0b		**¶15908759**
ISCJB	I	07 09 42 17.3–.17	35.77S–.03	73.41W–.03	10	5.0s,4.7b		
IDC	I	07 09 42 17.1–.44	35.75S	73.35W	0	5.1,5.1s		
GCMT	I	07 09 42 19.3–.10	35.87S	73.66W	12–0	5.4W,5.1s		
BJI	I	07 09 42 19.1	35.88S	72.78W	21	5.4b,5.4s		
NEIC	I	07 09 42 19.3–.23	35.74S	73.00W	10	5.6L,5.0b		
MOS	I	07 09 42 22.2–1.4	35.78S	72.85W	44	4.9b,5.0b		

ISC Event type fe.

GUC Error ellipse: s-maj=2.7km s-min=4.4km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.7km az=0.2.

IDC Error ellipse: s-maj=13.4km s-min=8.0km az=96.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s69,c100; s105,c186;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.87±.02 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-0.94±.02; $M_{r\theta}$-0.03±.04; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-1.09±.07; Best double couple: NP1: ϕ_s184.00000°,δ70.00000°,λ83.00000°. NP2:ϕ_s22.00000°,δ21.00000°,λ107.00000°. Principal axes: T 1.3870,Plg64.0000°,Azm83.0000°; N 0.0950,Plg6.0000°,Azm186.0000°; P -1.4820,Plg25.0000°,Azm279.0000° $M_0$1.43400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.8km az=69.0. Felt [III] at Cauquenes and [II] at Talca. Also felt at Talcahuano and Tome.

MOS Error ellipse: s-maj=19.7km s-min=9.3km az=99.3.

(135) Near coast of central Chile

ISC	**I**	**07 11 48 08.5–.70**	**36.80S–.05**	**73.63W–.08**	**14**	**4.2b,3.9s**	**49**	**1-160**
IDC	I	07 11 48 06.5–.88	36.89S	73.47W	0	4.4L,4.3		**¶15930115**
ISCJB	I	07 11 48 07.7–.56	36.82S–.04	73.52W–.07	14	4.1b,3.9s		
NEIC	I	07 11 48 09.0	36.82S	73.67W	34	4.6L,3.9s		
GUC	I	07 11 48 09.2–.53	36.82S	73.67W	34–8	4.6L,3.9s		

ISC Event type fe.

IDC Error ellipse: s-maj=29.5km s-min=19.9km az=94.0.

ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.8km az=13.0.

NEIC Event type fe. Felt [IV] at Puerto Saavedra and Tirua; [III] at Angol, Arauco, Chiguayante, Concepcion, Coronel, Lota, Penco, Renaico, San Pedro de la Paz, Talcahuano and Tolten; [II] at Carahue and La Laja. After GUC.

GUC Error ellipse: s-maj=4.6km s-min=8.0km az=-1.0.

(134) Off coast of central Chile

ISC	**I**	**07 14 05 40.6–.59**	**35.86S–.05**	**73.38W–.08**	**35**	**4.5b,4.3s**	**38**	**1-159**
IDC	I	07 14 05 36.3–.75	35.78S	73.19W	0	4.5L,4.4		**¶15909683**
NEIC	I	07 14 05 37.0	35.84S	73.59W	38	4.6b,4.4		
GCMT	I	07 14 05 37.0–.50	35.72S	73.73W	35–0	5.1W,4.4		
GUC	I	07 14 05 37.4–.51	35.85S	73.59W	38–10	5.2L,4.4		
ISCJB	I	07 14 05 38.9–.46	35.83S–.04	73.45W–.07	33	4.5b,4.2s		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Cauquenes; [III] at Chanco, Cobquecura, Constitucion, Empedrado, San Fabian and Tome; [II] at Chillan and Penco. After GUC.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c39; s60,c73;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.92±.51 $M_{\theta\theta}$-2.43±.28; $M_{\phi\phi}$-4.49±.29; $M_{r\theta}$-0.80±.26; $M_{\theta\phi}$-1.33±.14; $M_{\phi r}$-1.51±.27; Best double couple: NP1:ϕ_s206.00000°,δ53.00000°,λ90.00000°. NP2:ϕ_s26.00000°,δ37.00000°,λ90.00000°. Principal axes: T 7.1570,Plg82.0000°,Azm118.0000°; N -1.7780,Plg0.0000°,Azm26.0000°; P -5.3790,Plg8.0000°,Azm296.0000° $M_0$6.26800×10^{16}

ISCJB Event type fe.

(460) Wyoming

ISC	**I**	**07 18 13 35.2–.91**	**43.99N–.07**	**105.39W–.05**	**0**		**17**	**1-15**
ISCJB	I	07 18 13 35.5–.71	43.97N–.07	105.27W–.08	0			**¶17189651**
NEIC	I	07 18 13 36.4–.70	43.96N	105.22W	0	2.7L		
IDC	I	07 18 13 36.5–1.2	44.32N	105.76W	0	3.5,3.2		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=10.2km s-min=8.4km az=162.3.

NEIC Event type fm. Error ellipse: s-maj=12.0km s-min=8.5km az=154.0. 45 km [25 miles] SSE of Gillette. Suspected Mining explosion.

IDC Error ellipse: s-maj=27.9km s-min=9.7km az=148.0.

(238) Ryukyu Islands

ISC	**I**	**07 21 51 04.9–1.2**	**29.40N–.05**	**130.37E–.08**	**47–12**	**3.6b,3.4s**	**30**	**1-75**
IDC	I	07 21 50 58.0–.89	29.22N	130.09E	0	3.7,3.6		**¶17189661**
NIED	I	07 21 51 00	29.40N	130.40E	26	4.0W,3.6		
JMA	I	07 21 51 03.8–.10	29.40N	130.39E	48–5	3.9,3.6		
ISCJB	I	07 21 51 04.1–.54	29.41N–.04	130.37E–.08	61–5	3.5b,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ9.00000°,λ97.00000°. NP2:ϕ_s42.00000°,δ81.00000°,λ89.00000°. $M_0$1.32000×10^{15}

JMA Event type fe.

ISCJB Event type fe.

(478) Utah

ISC	**I**	**07 22 51 09.0–1.2**	**38.34N–.02**	**112.42W–.03**	**0–11**		**57**	**0-24**
NEIC	I	07 22 51 07.0	38.26N	112.33W	1	3.3L		**¶16017952**
IDC	I	07 22 51 10.9–2.3	38.57N	112.46W	0	3.2,3.2b		

ISC Event type fe.

NEIC Event type fe. Felt at Beaver. After SLC.

IDC Error ellipse: s-maj=27.0km s-min=9.2km az=150.0.

(39) Central California

ISC	**I**	**08 00 10 17.8–.65**	**37.20N–.04**	**121.84W–.05**	**16**	**3.9b**	**77**	**0-95**
BJI	I	08 00 10 14.5	37.10N	121.98W	10	5.1b		**¶16012667**
IDC	I	08 00 10 15.8–.99	37.25N	121.54W	0	3.8,3.8		
NEIC	I	08 00 10 16.7	37.29N	121.66W	10	4.2b,4.1W		
ISCJB	I	08 00 10 17.2–.35	37.28N–.03	121.71W–.04	16	4.0b,3.8s		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Mount Hamilton and San Jose; [III] at Alameda, Berkeley, Daly City, Fremont, Hayward, Milpitas, Oakland, San Bruno, San Francisco, San Rafael, Santa Clara, Sausalito, Soquel, Sunnyvale and Sunol. Widely felt in northern California. After NCEDC. Moment Tensor Solution. $M_0$1.80000×10^{15}

ISCJB Event type fe.

(348) Northern and central Iran

ISC	**I**	**08 00 24 28.2–.59**	**30.10N–.03**	**51.67E–.03**	**31–3**	**5.0b,4.5s**	**1347**	**0-132**
BJI	I	08 00 24 19.8	30.06N	51.16E	10	5.2b,5.0s		**¶15909051**
ISCJB	I	08 00 24 24.7–.45	30.07N–.01	51.67E–.01	16–3	5.0b,4.5s		
CSEM	I	08 00 24 25.6–.08	30.08N	51.65E	10	5.4s,5.3W		
MOS	I	08 00 24 25.1–1.2	30.05N	51.66E	23	4.9b,4.4s		
DSN	I	08 00 24 25.4–.59	29.95N	51.30E	16	5.4s,5.0b		
OMAN	I	08 00 24 26.8–3.0	29.97N	51.50E	32–48	5.4s,5.0b		
TEH	I	08 00 24 27.3	30.16N	51.68E	10	4.9L,5.0b		
GCMT	I	08 00 24 27.7–.20	30.10N	51.62E	20–1	5.1W,5.0b		
THR	I	08 00 24 27.7–1.0	30.18N	51.71E	39–6	5.2L,5.0b		
NEIC	I	08 00 24 27.7	30.18N	51.71E	39	5.0b,5.0b		
IDC	I	08 00 24 27.5–1.4	30.09N	51.71E	27–8	4.7,4.6		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=21.9.

CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=22.0.

MOS Error ellipse: s-maj=6.1km s-min=3.5km az=109.8.

DSN Error ellipse: s-maj=18.5km s-min=5.2km az=62.0.

OMAN Error ellipse: s-maj=35.4km s-min=25.2km az=152.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c74; s99,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.23±.15 $M_{\theta\theta}$1.43±.13; $M_{\phi\phi}$-1.20±.14; $M_{r\theta}$1.02±.25; $M_{\theta\phi}$5.88±.13; $M_{\phi r}$-1.44±.27; Best double couple: NP1:ϕ_s7.00000°,δ80.00000°,λ-168.00000°. NP2:ϕ_s275.00000°,δ78.00000°,λ-11.00000°. Principal axes: T 6.1420,Plg1.0000°,Azm141.0000°; N 0.2690,Plg74.0000°,Azm48.0000°; P -6.4120,Plg16.0000°,Azm231.0000° $M_0$6.27700×10^{16}

THR Error ellipse: s-maj=2.4km s-min=4.1km az=-1.0.

NEIC Event type fe. Felt [III] at Shiraz. Also felt at Bandar Bushehr. After THR.

IDC Error ellipse: s-maj=9.7km s-min=8.4km az=179.0.

(136) Central Chile

ISC	**I**	**08 05 54 57.0–1.2**	**35.93S–.05**	**71.82W–.07**	**70–16**		**42**	**1-20**
SJA	I	08 05 54 51.7–.83	36.00S	72.11W	33–14	4.0L,3.6W		**¶601516077**
ISCJB	I	08 05 54 55.0–.54	35.93S–.03	71.84W–.08	94–8	4.0L,3.6W		
NEIC	I	08 05 54 55.0	35.97S	71.76W	83	4.5,3.6W		
GUC	I	08 05 54 55.9–.88	35.97S	71.76W	83–7	4.5L,3.6W		

ISC Event type fe.

SJA Error ellipse: s-maj=4.2km s-min=24.6km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=4.8km az=18.7.

NEIC Event type fe. Felt [IV] at Cauquenes and Longavi; [III] at Cobquecura and Talca; [II] at Parral, Penco, San Fernando and Tome. After GUC.

GUC Error ellipse: s-maj=3.5km s-min=6.0km az=-1.0.

(224) Hokkaido region

ISC	**I**	**08 07 47 47.3–.48**	**41.91N–.03**	**141.49E–.03**	**114–4**	**4.7b**	**214**	**0-153**
NIED	I	08 07 47 00	41.90N	141.50E	101	4.1W		**¶15990244**
ISCJB	I	08 07 47 46.5–.20	41.94N–.02	141.46E–.03	114–1	4.6b		
MOS	I	08 07 47 46.7–1.1	41.99N	141.51E	123	4.2b		
BJI	I	08 07 47 47.7	42.00N	141.40E	109	4.9b,4.7b		
JMA	I	08 07 47 47.1–.10	41.88N	141.50E	109–1	3.7,4.7b		
IDC	I	08 07 47 48.3–1.1	42.03N	141.40E	121–9	4.1,3.9		
NEIC	I	08 07 47 48.3–.48	41.99N	141.40E	116–4	4.8b,3.9		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ44.00000°,λ-127.00000°. NP2:ϕ_s55.00000°,δ56.00000°,λ-59.00000°. $M_0$1.40000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=140.3.

MOS Error ellipse: s-maj=9.8km s-min=7.6km az=91.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s62.00000°,δ56.00000°,λ-63.00000°. NP2: ϕ_s200.00000°,δ43.00000°,λ-123.00000°. Principal axes: T Plg7.0000°,Azm133.0000°; N Plg22.0000°,Azm226.0000°; P Plg67.0000°,Azm27.0000°

IDC Error ellipse: s-maj=11.4km s-min=9.2km az=138.0.

NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=157.0. Felt at Misawa, Honshu.

(268) Sulawesi

ISC	**I**	**08 08 15 12.8–.29**	**1.14S–.04**	**120.07E–.04**	**10**	**4.9b,4.1s**	**214**	**0-161**
BJI	I	08 08 15 05.8	1.78S	120.50E	10	5.0b,4.9b		**¶15909062**
IDC	I	08 08 15 10.6–.43	1.05S	120.23E	0	4.6,4.5		
ISCJB	I	08 08 15 11.6–.17	1.08S–.02	120.05E–.02	10	4.8b,4.1s		
NEIC	I	08 08 15 12.9–.22	1.15S	120.09E	10	5.0b,4.1s		
GCMT	I	08 08 15 12.9–.20	1.05S	120.05E	23–1	5.0W,4.1s		
MOS	I	08 08 15 13.9–.91	1.00S	120.28E	33	4.8b,4.1s		
KLM	I	08 08 15 13.7	1.12S	119.98E	5	5.8s,5.7L		
DJA	I	08 08 15 15.1–.20	1S–3.0	120E–2.0	10	6.0,5.5b		

ISC Event type fe.

ISCJB Event type fe.

NEIC Event type fe. Felt [IV] at Palu.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c44; s84,c126;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.01±.20 $M_{\theta\theta}$2.90±.15; $M_{\phi\phi}$-1.89±.18; $M_{r\theta}$0.59±.21; $M_{\theta\phi}$-3.68±.11; $M_{\phi r}$-1.08±.26; Best double couple: NP1:ϕ_s343.00000°,δ88.00000°,λ-16.00000°. NP2:ϕ_s73.00000°,δ74.00000°,λ-178.00000°. Principal axes: T 5.0720,Plg10.0000°,Azm29.0000°; N -1.0330,Plg74.0000°,Azm155.0000°; P -4.0390,Plg13.0000°,Azm297.0000° $M_0$4.55600×10^{16}

(259) Mindanao

ISC	**I**	**08 09 32 29.3–1.2**	**10.06N–.04**	**126.30E–.07**	**53–11**	**4.4b,3.8s**	**70**	**1-146**
IDC	I	08 09 32 22.0–.50	9.99N	126.12E	0	4.4,4.3		**¶16021272**
ISCJB	I	08 09 32 28.8–.71	10.04N–.03	126.34E–.05	66–7	4.2b,4.3		
MAN	I	08 09 32 28	9.95N	126.19E	1	4.7b,3.6L		
NEIC	I	08 09 32 33.4–.83	9.93N	126.10E	94–8	4.4b,3.6L		

ISC Event type fe.

IDC Error ellipse: s-maj=19.7km s-min=11.8km az=80.0.

ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.1km az=158.5.

MAN Event type fe. INTENSITY II - LORETO DINAGAT ISLANDS.

NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=5.3km az=78.0. Felt [II PIVS] at Loreto, Dinagat Island.

(134) Off coast of central Chile

ISC	**I**	**08 11 34 31.5–1.3**	**38.74S–.07**	**75.1W–.10**	**10**	**4.0b**	**28**	**2-162**
ISCJB	I	08 11 34 29.5–.99	38.60S–.05	75.2W–.10	10	3.9b,3.3s		**¶602426834**
NEIC	I	08 11 34 32.0	38.89S	74.74W	18	4.6L,4.6b		
GUC	I	08 11 34 32.0–.43	38.89S	74.74W	18–15	4.6L,4.6b		
IDC	I	08 11 34 42.4–1.2	38.46S	73.59W	0	4.0,3.9		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.7km az=167.8.

NEIC Event type fe. Felt [II] at Angol, Puerto Saavedra and Temuco. After GUC.

GUC Error ellipse: s-maj=7.0km s-min=20.5km az=-1.0.

IDC Error ellipse: s-maj=37.0km s-min=20.5km az=50.0.

(613) Hawaiian Islands

NEIC	**I**	**08 12 31 50.0**	**19.34N**	**155.06W**	**9**	**3.5**		**¶601989003**

NEIC Event type fe. Felt [III] at Captain Cook. Also felt at Hilo, Holualoa, Kailua Kona, Kea'au, Kurtistown, Pahoa and Papa'ikou. After HVO.

(127) Chile-Argentina border region

ISC	**I**	**08 13 20 11.9–.34**	**24.31S–.04**	**69.06W–.06**	**99–2**	**4.6b**	**566**	**2-176**
ISCJB	I	08 13 20 10.7–.60	24.35S–.05	69.05W–.06	99–4	4.6b		**¶15927189**
GUC	I	08 13 20 10.6–.24	24.41S	69.16W	79–11	5.1L		
MOS	I	08 13 20 11.4–1.1	24.32S	68.95W	102	4.7b		
NEIC	I	08 13 20 12.2–.24	24.26S	68.94W	99	4.6b		
IDC	I	08 13 20 12.3–.40	24.30S	69.09W	100–3	4.6,4.5		
BJI	I	08 13 20 14.1	24.30S	68.90W	90	5.3s,5.2b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.3km az=143.7.

GUC Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

MOS Error ellipse: s-maj=16.6km s-min=10.1km az=108.3.

NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.1km az=54.0. Felt [II] at Copiapo and Tierra Amarilla. Also felt at Antofagasta.

IDC Error ellipse: s-maj=13.9km s-min=7.0km az=91.0.

(274) Southern Sumatera

ISC	**I**	**08 14 41 19.6–.65**	**2.01S–.04**	**100.33E–.06**	**56**	**4.1b**	**40**	**1-145**
IDC	I	08 14 41 11.2–1.4	2.21S	100.26E	0	4.0,3.9		**¶16057150**
NEIC	I	08 14 41 16.3–.73	1.97S	100.48E	35	4.1b,3.9		
ISCJB	I	08 14 41 18.2–.51	2.05S–.04	100.28E–.06	56	4.0b,2.5s		
DJA	I	08 14 41 20.2–.30	2S–2.0	100E–3.0	10	6.1b,5.8		
KLM	I	08 14 41 24.0	1.67S	100.67E	10	4.9s,4.2b		

ISC Event type fe.

IDC Error ellipse: s-maj=66.9km s-min=15.7km az=57.0.

NEIC Event type fe. Error ellipse: s-maj=24.3km s-min=10.3km az=54.0. Felt [II] at Painan.

ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=169.1.

(224) Hokkaido region

ISC	**I**	**08 18 21 52.4–.47**	**42.58N–.03**	**142.16E–.03**	**129–4**	**4.6b**	**242**	**0-114**
NIED	I	08 18 21 00	42.60N	142.10E	110	4.2W		**¶15910777**
BJI	I	08 18 21 49.2	42.58N	142.42E	129	4.9b,4.7b		
MOS	I	08 18 21 51.4–.75	42.66N	142.14E	129	4.4b,4.7b		
ISCJB	I	08 18 21 51.2–.18	42.57N–.02	142.17E–.03	130–1	4.5b,4.7b		
NEIC	I	08 18 21 52.0–.42	42.59N	142.16E	124–4	4.7b,4.7b		
JMA	I	08 18 21 52.0–.20	42.61N	142.13E	132–2	4.1,4.7b		
IDC	I	08 18 21 53.2–.89	42.66N	142.12E	130–6	4.3,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ56.00000°,λ171.00000°. NP2:ϕ_s112.00000°,δ83.00000°,λ34.00000°. $M_0$1.91000×10^{15}

MOS Error ellipse: s-maj=8.2km s-min=5.4km az=99.0.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=143.3.

NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.5km az=140.0. Recorded [1 JMA] in the Tomakomai area and in southwestern and south-central Hokkaido. Also recorded [1 JMA] in Aomori, Honshu.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s109.00000°,δ85.00000°,λ43.00000°. NP2: ϕ_s15.00000°,δ47.00000°,λ173.00000°. Principal axes: T Plg33.0000°,Azm341.0000°; N Plg47.0000°,Azm114.0000°; P Plg25.0000°,Azm234.0000°

IDC Error ellipse: s-maj=11.8km s-min=9.0km az=143.0.

(19) Southeastern Alaska

ISC	**I**	**08 19 33 41.0–1.0**	**59.38N–.03**	**135.04W–.02**	**0–7**	**4.0b,3.4s**	**202**	**0-91**
BJI	I	08 19 33 40.0	59.30N	135.10W	10	4.7b,4.4b		**¶15917517**
NEIC	I	08 19 33 40.5	59.36N	135.15W	4	4.2W,3.9b		
IDC	I	08 19 33 41.4–.51	59.43N	135.07W	0	4.1,4.1L		
PGC	I	08 19 33 41.1–.01	59.33N	135.18W	1	4.2W,4.1L		

ISC Event type fe.

NEIC Event type fe. Felt [II] at Haines and Juneau. Also felt at Skagway. After AEIC. Moment Tensor Solution. $M_0$6.10000×10^{14} Moment Tensor Solution. $M_0$2.40000×10^{15}

IDC Error ellipse: s-maj=11.9km s-min=6.0km az=43.0.

PGC Event type ke. 24km Nne of Haines, Ak Southeastern Alaska.

(362) Western Caucasus

ISC	**I**	**08 19 55 25.2–1.2**	**43.71N–.04**	**39.79E–.03**	**5–9**	**3.2b**	**83**	**0-63**
IDC	I	08 19 55 23.7–.75	43.54N	39.89E	0	3.5,3.4		**¶16395259**
ISCJB	I	08 19 55 24.4–.85	43.77N–.03	39.72E–.03	8–6	3.3b,3.4		
MOS	I	08 19 55 24.2–.92	43.73N	39.71E	10	3.9b,3.4		
CSEM	I	08 19 55 25.5–.23	43.71N	39.78E	2	3.9b,3.4		

ISC Event type ke.

IDC Error ellipse: s-maj=15.9km s-min=8.5km az=166.0.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.7km az=18.7.

MOS Event type fe. Error ellipse: s-maj=8.7km s-min=6.6km az=44.4. Felt (III) at Sochi. Moment Tensor Solution.

CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=18.0.

(544) Switzerland

ISC	**I**	**08 20 48 17.0–.44**	**46.306N–.01**	**7.492E–.01**	**11–3**		**609**	**0-10**
ISCJB	I	08 20 48 15.7–.16	46.313N–.01	7.46E–.01	0–2			**¶15910783**
STR	I	08 20 48 17.2–.14	46.26N	7.55E	5	3.3L		
BNS	I	08 20 48 17.2–.61	46.17N	7.47E	5	3.3L		
ROM	I	08 20 48 17.9–.11	46.24N	7.53E	11–0	3.0L,3.0		
CSEM	I	08 20 48 17.0–.07	46.29N	7.50E	5	3.6L,3.0		
GEN	I	08 20 48 17.4	46.27N	7.51E	17	3.0L,3.0		
NEIC	I	08 20 48 17.3	46.31N	7.51E	7	3.4L,3.3L		
ZUR	I	08 20 48 17.3	46.31N	7.51E	7–0	3.3L,3.3L		
LDG	I	08 20 48 18.1–.05	46.29N	7.52E	7	3.6,3.5L		
BGR	I	08 20 48 18.9–.45	46.37N	7.41E	5	3.5L,3.5L		
PRU	I	08 20 48 19.5	46.27N	7.62E	12	3.5L,3.5L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=136.7.

STR Event type ke.

BNS Event type ke.

ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=153.0.

CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=139.0.

NEIC Event type fe. Felt [III] at Sierre. Also felt at Montana and Sion. After ZUR.

ZUR Event type ke.

LDG Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=126.0.

BGR Event type ke. Error ellipse: s-maj=5.6km s-min=5.6km az=100.0.

(460) Wyoming

ISC	**I**	**08 21 30 16.7–.92**	**43.75N–.04**	**105.22W–.06**	**0**		**26**	**1-90**
ISCJB	I	08 21 30 14.2–.91	43.74N–.04	105.05W–.09	0	3.8b		**¶17189724**
NEIC	I	08 21 30 16.3–.91	43.72N	105.13W	0	2.7L		
IDC	I	08 21 30 18.3–1.0	44.09N	105.70W	0	3.8b,3.6		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=9.4km s-min=5.9km az=2.6.

NEIC Event type fm. Error ellipse: s-maj=14.0km s-min=7.4km az=117.0. 65 km [40 miles] SSE of Gillette. Suspected Mining explosion.

IDC Error ellipse: s-maj=25.3km s-min=9.0km az=147.0.

(544) Switzerland

ISC	**I**	**08 23 32 29.4–.78**	**46.30N–.01**	**7.51E–.01**	**12–5**		**391**	**0-7**
CSEM	I	08 23 32 29.2–.07	46.29N	7.51E	5	3.1L		**¶15910791**
STR	I	08 23 32 29.3–.13	46.27N	7.55E	5	2.8L		
NEIC	I	08 23 32 29.6	46.31N	7.61E	5	3.0L,2.8L		
ROM	I	08 23 32 29.9–.19	46.25N	7.51E	11–1	2.7,2.4L		
GEN	I	08 23 32 29.7	46.27N	7.51E	14	2.4L,2.4L		
ZUR	I	08 23 32 29.6	46.31N	7.51E	7–0	2.8L,2.4L		
LDG	I	08 23 32 30.2–.05	46.28N	7.52E	7	2.9,2.9L		
PRU	I	08 23 32 32.5	46.31N	7.66E	4	2.9,2.9L		

ISC Event type fe.

CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=134.0.

STR Event type ke.

NEIC Event type fe. Felt at Sierre. After ZUR.

ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=164.0.

ZUR Event type ke.

LDG Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=120.0.

(135) Near coast of central Chile

ISC	**I**	**09 01 09 58.1–.35**	**38.27S–.04**	**73.19W–.08**	**25**	**4.7b,4.0s**	**483**	**1-176**
IDC	I	09 01 09 53.5–.66	38.17S	73.13W	0	4.6L,4.5		**¶15927194**
GUC	I	09 01 09 55.3–.41	38.26S	73.53W	36–2	4.8L,4.5		
ISCJB	I	09 01 09 57.0–.15	38.27S–.02	72.99W–.05	25	4.7b,4.0s		
NEIC	I	09 01 09 59.2–.30	38.21S	73.22W	34	4.8L,4.8b		
BJI	I	09 01 10 01.4	38.20S	73.20W	34	5.4s,5.3		

ISC Event type fe.

IDC Error ellipse: s-maj=23.4km s-min=12.4km az=71.0.

GUC Error ellipse: s-maj=0.8km s-min=6.1km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.8km az=10.8.

NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.1km az=55.0. Felt [IV] at Curanilahue, Lebu, Puerto Saavedra, Tirua and Tolten; [III] at Angol, Chiguayante, Concepcion, Padre Las Casas, Penco, Santa Juana, Talcahuano and Temuco. Felt in much of Araucania, Bio-Bio and Los Rios.

(228) Near east coast of eastern Honshu

ISC	**I**	**09 02 21 39.7–1.5**	**35.82N–.04**	**140.22E–.07**	**31–11**	**3.6b**	**25**	**0-79**
NIED	I	09 02 21 00	35.90N	140.30E	86	4.0W		**¶17189735**
IDC	I	09 02 21 34.8–.80	35.78N	140.32E	0	3.9,3.8		
ISCJB	I	09 02 21 39.2–.59	35.79N–.04	140.38E–.07	48–5	3.6b,3.8		
JMA	I	09 02 21 41.1	35.87N	140.25E	43–1	3.5,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ57.00000°,λ174.00000°. NP2:ϕ_s69.00000°,δ85.00000°,λ33.00000°. $M_0$1.03000×10^{15}

IDC Error ellipse: s-maj=23.2km s-min=14.8km az=71.0.

ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.7km az=172.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s72.00000°,δ71.00000°,λ77.00000°. NP2:ϕ_s288.00000°,δ23.00000°,λ124.00000°. Principal axes: T Plg62.0000°,Azm321.0000°; N Plg13.0000°,Azm76.0000°; P Plg25.0000°,Azm172.0000°

(134) Off coast of central Chile

ISC	**I**	**09 08 19 05.5–1.9**	**35.87S–.04**	**73.53W–.09**	**25–12**	**3.8s,3.8b**	**29**	**1-168**
NEIC	I	09 08 19 02.0	35.81S	73.69W	21	4.2L,3.8b		**¶15928064**
GUC	I	09 08 19 02.6–.30	35.93S	73.61W	4–1	4.1L,3.8b		
IDC	I	09 08 19 02.8–.94	35.83S	73.43W	0	4.2L,4.0		

ISC Event type fe.

NEIC Event type fe. Felt [III] at Concepcion. After GUC.

GUC Error ellipse: s-maj=0.7km s-min=2.4km az=-1.0.

IDC Error ellipse: s-maj=32.8km s-min=20.5km az=92.0.

(186) Vanuatu Islands

ISC	**I**	**09 10 03 43.6–.30**	**19.28S–.03**	**168.38E–.03**	**21–3**	**6.4s,6.0b**	**1577**	**3-166**
BJI	I	09 10 03 40.8	18.96S	168.45E	10	6.5s,6.4		**¶15910807**
IDC	I	09 10 03 40.3–.27	19.26S	168.33E	0	6.3,6.3s		
MOS	I	09 10 03 41.4–1.3	19.19S	168.30E	33	6.3s,6.0b		
NEIC	I	09 10 03 44.0–.09	19.16S	168.31E	22	6.6,6.6W		
ISCJB	I	09 10 03 44.1–.85	19.19S–.02	168.28E–.02	33–7	6.4s,6.0b		
GCMT	I	09 10 03 44.3–.10	19.20S	168.13E	13–0	6.5W,6.0b		
NEIC	I	09 10 03 44.0–.00	19.16S	168.33E	17	6.5W,6.0b		
NEIC	I	09 10 04 04.7–.00	18.92S	167.79E	20	6.5W,6.0b		

ISC Event type fe.

IDC Error ellipse: s-maj=10.5km s-min=9.5km az=70.0.

MOS Error ellipse: s-maj=6.6km s-min=6.0km az=112.9.

NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.2km az=144.0. Felt [III] at Port-Vila. Also felt at Isangel. Felt at Noumea, New Caledonia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.30000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s355.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm265.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=18.7.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c374; s145,c644;Duration: 4s^4 Moment tensor: Scale 10^{18} Nm; M_{rr}-6.57±.03 $M_{\theta\theta}$6.55±.03; $M_{\phi\phi}$0.01±.03; $M_{r\theta}$-1.62±.07; $M_{\theta\phi}$-1.34±.02; $M_{\phi r}$-1.98±.08; Best double couple: NP1:ϕ_s84.00000°,δ53.00000°,λ-112.00000°. NP2:ϕ_s298.00000°,δ42.00000°,λ-64.00000°. Principal axes: T 6.9280,Plg5.0000°,Azm189.0000° ; N 0.4540,Plg17.0000°,Azm98.0000°; P -7.3850,Plg72.0000°,Azm296.0000° $M_0$7.15700×10^{18}

NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.99 $M_{\theta\theta}$5.90 $M_{\phi\phi}$0.08 $M_{r\theta}$-3.88 $M_{\theta\phi}$-0.58 $M_{\phi r}$-0.73 Best double couple: NP1:ϕ_s86.00000°,δ61.00000°,λ-98.00000°. NP2:ϕ_s283.00000°,δ29.00000°,λ-75.00000°. Principal axes: T 7.0700,Plg16.0000°,Azm183.0000°; N 0.1700,Plg7.0000°,Azm91.0000° ; P -7.2500,Plg72.0000°,Azm338.0000° $M_0$7.20000×10^{18}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ31.00000°,λ-139.00000°. NP2:ϕ_s140.00000°,δ70.00000°,λ-65.00000°. Principal axes: T 0.8500,Plg21.0000°,Azm211.0000°; N 0.3900,Plg23.0000°,Azm311.0000° ; P -1.2400,Plg57.0000°,Azm84.0000°

(224) Hokkaido region

ISC	**I**	**09 12 42 31.0–.51**	**42.36N–.04**	**144.49E–.03**	**25–3**	**5.0b,4.6s**	**934**	**1-156**
NIED	I	09 12 42 00	42.30N	144.60E	23	4.7W,4.6s		**¶15910811**
IDC	I	09 12 42 27.1–.39	42.37N	144.43E	0	4.8,4.8		
BJI	I	09 12 42 30.9	42.31N	144.54E	40	5.2b,4.7b		
SKHL	I	09 12 42 30.6–.40	42.19N	144.60E	41–6	4.9b,4.4s		
MOS	I	09 12 42 31.1–.93	42.27N	144.44E	41	5.1b,4.4s		
JMA	I	09 12 42 31.0	42.34N	144.52E	31–2	4.7,4.4s		
ISCJB	I	09 12 42 31.4–.39	42.35N–.02	144.44E–.02	37–3	5.0b,4.6s		
NEIC	I	09 12 42 31.1–1.1	42.40N	144.38E	22–7	5.1b,4.6s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ40.00000°,λ106.00000°. NP2:ϕ_s201.00000°,δ52.00000°,λ77.00000°. $M_0$1.14000×10^{16}

IDC Error ellipse: s-maj=12.2km s-min=9.8km az=145.0.

MOS Error ellipse: s-maj=6.9km s-min=4.6km az=98.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.3km az=157.1.

NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=152.0. Recorded [2 JMA] in south-central Hokkaido and [1 JMA] in eastern Hokkaido.

(555) Western Arabian Peninsula

ISC	**I**	**10 02 29 57.0–.47**	**12.01N–.04**	**43.98E–.04**	**9–2**	**4.7b,4.5s**	**444**	**1-169**
DHMR	I	10 02 29 52.5–1.3	12.11N	43.89E	8–9	5.1L,4.5s		**¶15914930**
MOS	I	10 02 29 54.9–.97	11.93N	44.07E	7	5.0b,4.5s		
BJI	I	10 02 29 54.1	12.10N	43.68E	11	5.2b,5.0s		
ISCJB	I	10 02 29 55.9–.22	12.02N–.03	44.00E–.02	10	4.7b,4.6s		
IDC	I	10 02 29 55.8–.54	12.01N	43.96E	0	4.6,4.6s		
GCMT	I	10 02 29 57.6–.20	12.10N	44.13E	12	5.2W,4.6s		
NEIC	I	10 02 29 57.6–.24	12.04N	43.99E	10	4.9b,4.6s		
CSEM	I	10 02 29 57.8–.19	12.04N	44.06E	10	5.1s,4.9b		
ARO	I	10 02 29 57.7	12N–9.0	44E–6.0	10–18	4.6L,4.9b		
DSN	I	10 02 29 58.8–22	12.12N	44.12E	15	5.1s,4.8b		
OMAN	I	10 02 30 00.3–35	12.14N	44.01E	12–1	5.1s,4.8b		

ISC Event type fe.

DHMR Error ellipse: s-maj=9.9km s-min=5.6km az=-1.0.

MOS Error ellipse: s-maj=9.8km s-min=4.1km az=98.1.

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=151.6.

IDC Error ellipse: s-maj=13.1km s-min=7.9km az=148.0.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=35s. Moment Tensor Solution. s29,c36; s87,c160; Duration: 1s^2 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.42±.16 $M_{\theta\theta}$5.21±.12; $M_{\phi\phi}$1.21±.16; $M_{r\theta}$-2.00±.41; $M_{\theta\phi}$-1.95±.12; $M_{\phi r}$-1.18±.53; Best double couple: NP1:ϕ_s98.00000°,δ53.00000°,λ-107.00000°. NP2:ϕ_s305.00000°,δ40.00000°,λ-69.00000°. Principal axes: T 6.1690,Plg7.0000°,Azm200.0000°; N 0.8610,Plg14.0000°,Azm108.0000° ; P -7.0300,Plg75.0000°,Azm316.0000° $M_0$6.59900×10^{16}

NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.9km az=103.0. Felt at 'Adan.

CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.5km az=178.0.

DSN Error ellipse: s-maj=10.9km s-min=3.1km az=347.0.

OMAN Error ellipse: s-maj=4.3km s-min=1.5km az=315.0.

(134) Off coast of central Chile

ISC	**I**	**10 06 02 51.2–.43**	**35.72S–.03**	**73.32W–.04**	**23–2**	**5.8s,5.5b**	**986**	**1-178**
GUC	I	10 06 02 46.4–.30	35.60S	73.60W	23–1	6.0W,5.9L		**¶15914934**
IDC	I	10 06 02 47.8–.36	35.68S	73.17W	0	5.8s,5.7		
ISCJB	I	10 06 02 49.5–.14	35.68S–.02	73.30W–.03	22	5.8s,5.4b		
BJI	I	10 06 02 50.7	36.00S	73.14W	30	6.0s,5.9		
MOS	I	10 06 02 50.1–1.1	35.61S	73.18W	22	6.0s,5.6b		
NEIC	I	10 06 02 52.0–.14	35.59S	73.06W	24	6.0W,5.9W		
GCMT	I	10 06 02 52.0–.10	35.77S	73.59W	12–0	5.9W,5.9W		
NEIC	I	10 06 03 04.9–.00	35.74S	72.93W	24	5.9W,5.9W		

ISC Event type fe.

GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=17.1km s-min=10.7km az=83.0.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=157.1.

MOS Error ellipse: s-maj=19.3km s-min=7.0km az=102.0.

NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=67.0. Felt [V] at Coronel, Hualpen, Lota, Penco, Talcahuano and Tome; [IV] in the Arauco-Talca area. Felt in much of central Chile as far as Santiago and Temuco. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}3.79 $M_{\theta\theta}$-0.65 $M_{\phi\phi}$-3.14 $M_{r\theta}$-1.08 $M_{\theta\phi}$-0.27 $M_{\phi r}$-7.26 Best double couple: NP1: ϕ_s188.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s5.00000°,δ13.00000°,λ87.00000°. Principal axes: T 8.4300,Plg58.0000°,Azm99.0000°; N -0.6300,Plg1.0000°,Azm8.0000° ; P -7.8100,Plg32.0000°,Azm278.0000° $M_0$8.10000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c214; s123,c358;Duration: 2s^2 Moment tensor: Scale 10^{17}Nm; M_{rr}4.17±.05 $M_{\theta\theta}$-0.07±.03; $M_{\phi\phi}$-4.10±.04; $M_{r\theta}$-0.86±.11; $M_{\theta\phi}$-1.10±.03; $M_{\phi r}$-7.92±.29; Best double couple: NP1: ϕ_s187.00000°,δ76.00000°,λ86.00000°. NP2:ϕ_s22.00000°,δ14.00000°,λ105.00000°. Principal axes: T 8.9730,Plg59.0000°,Azm92.0000°; N 0.1370,Plg4.0000°,Azm188.0000° ; P -9.1120,Plg31.0000°,Azm280.0000° $M_0$9.04200×10^{17}

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ76.00000°,λ91.00000°. NP2:ϕ_s12.00000°,δ14.00000°,λ85.00000°. Principal axes: T 1.0500,Plg59.0000°,Azm108.0000°; N 0.0000,Plg1.0000°,Azm16.0000° ; P -1.0500,Plg31.0000°,Azm285.0000°

(265) Minahassa Peninsula, Sulawesi

ISC	**I**	**10 08 35 35.3–.38**	**0.82N–.03**	**123.29E–.03**	**64–3**	**4.9b**	**405**	**0-155**
BJI	I	10 08 35 29.6	0.18N	123.77E	79	5.2b,5.0b		**¶15914939**
MOS	I	10 08 35 31.1–1.0	0.88N	123.41E	43	5.0b,5.0b		
NEIC	I	10 08 35 34.9–.19	0.83N	123.31E	60	5.1b,5.0b		
IDC	I	10 08 35 34.2–.52	0.78N	123.42E	60–4	4.7,4.5		
ISCJB	I	10 08 35 34.3–.25	0.82N–.02	123.33E–.02	70–2	4.8b,4.5		
GCMT	I	10 08 35 36.7–.40	1.06N	123.27E	35–1	4.9W,4.5		
DJA	I	10 08 35 36.9–.10	1N–2.0	123E–1.0	50	5.6b,5.2		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Gorontalo.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s63,c90;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.28±.21 $M_{\theta\theta}$2.10±.12; $M_{\phi\phi}$0.17±.14; $M_{r\theta}$-1.73±.12; $M_{\theta\phi}$-0.09±.09; $M_{\phi r}$0.48±.17; Best double couple: NP1:ϕ_s100.00000°,δ65.00000°,λ-84.00000°. NP2:ϕ_s266.00000°,δ26.00000°,λ-103.00000°. Principal axes: T 2.7240,Plg19.0000°,Azm186.0000°; N 0.2090,Plg6.0000°,Azm278.0000° ; P -2.9400,Plg70.0000°,Azm23.0000° $M_0$2.83200×10^{16}

(162) South Island

WEL	**I**	**10 08 58 48.4–.13**	**43.68S**	**172.35E**	**9–0**	**4.2L**		
NEIC	I	10 08 58 48.5	43.64S	172.38E	10	4.2L		**¶15915780**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=0.0. Felt from Marlborough to Canterbury, maximum reported intensity MM 6.

NEIC Event type fe. Felt in Canterbury. After WEL.

(123) Northern Chile

ISC	**I**	**10 09 54 33.8–.48**	**19.18S–.04**	**69.23W–.07**	**104–4**	**4.6b**	**455**	**1-170**
ISCJB	I	10 09 54 30.9–.50	19.01S–.04	69.15W–.06	93–5	4.6b		**¶16150968**
GUC	I	10 09 54 33.2–.43	19.17S	69.51W	104–3	5.0L		
IDC	I	10 09 54 34.5–.56	19.04S	69.08W	107–4	4.4,4.2		
NEIC	I	10 09 54 34.8–.65	19.10S	69.05W	111–6	4.7b,4.2		
BJI	I	10 09 54 36.9	19.00S	68.90W	119	5.1b,4.2		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.9km az=156.2.
GUC Error ellipse: s-maj=1.6km s-min=9.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=13.8km az=49.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=64.0. Felt [III] at Cuya and Iquique; [II] at Arica.

(213) Volcano Islands region

ISC	**I**	**10 10 24 20.7–.23**	**23.16N–.03**	**143.15E–.03**	**87–1**	**5.7b**	**1414**	**4-167**
NIED	I	10 10 24 00	23.70N	143.80E	74	5.8W		**¶15915784**
ISCJB	I	10 10 24 17.9–.37	23.16N–.02	143.17E–.02	72–3	5.6b		
MOS	I	10 10 24 18.9–.89	23.09N	143.06E	83	5.6b,4.7s		
NEIC	I	10 10 24 21.0–.60	23.08N	143.17E	87–5	5.7b,5.6W		
IDC	I	10 10 24 20.7–.36	23.10N	143.15E	88–3	5.4,5.1		
GCMT	I	10 10 24 21.0–.10	23.25N	143.12E	92–0	5.6W,5.1		
BJI	I	10 10 24 21.4	23.53N	142.90E	74	5.5b,5.3b		
JMA	I	10 10 24 23.6–.10	23.72N	143.82E	147–1	6.0,5.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ9.00000°,λ-142.00000°. NP2:ϕ_s355.00000°,δ85.00000°,λ-83.00000°. M_o5.84000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.2km az=147.3.
MOS Error ellipse: s-maj=7.6km s-min=4.1km az=100.5.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.8km az=111.0. Recorded [1 JMA] in the Chichijima-retto and Hahajima-retto. Moment Tensor Solution. s39 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$-1.03 $M_{\phi\phi}$0.06 $M_{r\theta}$-2.06 $M_{\theta\phi}$-1.39 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s23.00000°,δ36.00000°,λ21.00000°. NP2:ϕ_s276.00000°,δ78.00000°,λ124.00000°. Principal axes: T 3.0000,Plg46.0000°,Azm221.0000°; N -0.4300,Plg33.0000°,Azm88.0000°; P -2.5700,Plg25.0000°,Azm340.0000° M_o2.80000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=6.1km az=96.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c226; s127,c295;Duration: 1§6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.96±.03 $M_{\theta\theta}$-1.28±.04; $M_{\phi\phi}$0.32±.04; $M_{r\theta}$-2.00±.02; $M_{\theta\phi}$-2.13±.03; $M_{\phi r}$0.78±.03; Best double couple: NP1:ϕ_s275.00000°,δ77.00000°,λ136.00000°. NP2:ϕ_s17.00000°,δ47.00000°,λ18.00000°. Principal axes: T 3.3040,Plg40.0000°,Azm226.0000°; N -0.1360,Plg44.0000°,Azm82.0000°; P -3.1670,Plg19.0000°,Azm332.0000° M_o3.23500×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.

(43) Southern California

ISC	**I**	**10 11 26 04.3–.97**	**33.20N–.02**	**116.74W–.04**	**13–9**		**28**	**0-5**
ISCJB	I	10 11 26 04.0–.47	33.22N–.02	116.75W–.04	12–4			**¶16160568**
NEIC	I	10 11 26 04.7	33.23N	116.77W	11	3.1L		
ECX	I	10 11 26 05.1–.55	33.22N	116.75W	7	3.2L,3.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=9.4.
NEIC Event type fe. Felt [II] at Escondido, Poway, Ramona, San Diego, Santa Ysabel, Santee, Valley Center and Warner Springs. Felt in much of San Diego County and in parts of Orange and Riverside Counties. After PAS.
ECX Error ellipse: s-maj=0.9km s-min=1.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**I**	**10 12 01 16.8–.92**	**36.49N–.05**	**140.41E–.06**	**108–7**	**3.5b**	**30**	**0-60**
ISCJB	I	10 12 01 15.7–.56	36.46N–.04	140.42E–.06	113–4	3.3b		**¶600517369**
IDC	I	10 12 01 15.5–2.0	36.50N	140.54E	96–16	3.6,3.3		
JMA	I	10 12 01 17.9–.10	36.51N	140.34E	100–1	3.2,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.7km az=12.5.
IDC Error ellipse: s-maj=22.8km s-min=10.0km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(90) Puerto Rico region

ISC	**I**	**10 15 08 57.5–.79**	**19.55N–.05**	**65.33W–.07**	**16**	**3.7b**	**63**	**1-69**
IDC	I	10 15 08 54.5–.86	19.50N	65.10W	0	4.0,3.7		**¶15916177**
ISCJB	I	10 15 08 57.2–.71	19.62N–.04	65.42W–.06	16	3.7b,3.0s		
NEIC	I	10 15 09 00.2	19.67N	65.40W	25	3.8,3.0s		
RSPR	I	10 15 09 00.2	19.67N	65.40W	25–17	3.8,3.0s		

ISC Event type fe.
IDC Error ellipse: s-maj=25.7km s-min=16.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.7km az=179.6.
NEIC Event type fe. Felt [II] at Guaynabo. Also felt at Fort Buchanan. After RSPR.
RSPR Event type ke.

(160) Off east coast of North Island

WEL	**I**	**10 18 03 34.7–.15**	**39.74S**	**177.33E**	**19–1**	**4.3L**		
NEIC	I	10 18 03 35.0	39.73S	177.28E	19	4.3L		**¶15918287**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.9km az=90.0. Felt in the Hawke"s Bay region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Napier and Taradale. After WEL.

(233) Near south coast of western Honshu

ISC	**I**	**10 18 12 57.7–.95**	**34.03N–.03**	**135.27E–.03**	**11–7**	**3.3b**	**29**	**0-57**
NIED	I	10 18 12 00	34.00N	135.30E	5	3.4W		**¶17189872**
IDC	I	10 18 12 56.1–1.1	33.99N	135.34E	0	3.4,3.4b		
ISCJB	I	10 18 12 57.3–.53	34.03N–.03	135.26E–.03	13–4	3.2b,3.4b		
JMA	I	10 18 12 57.9	34.04N	135.27E	6	3.5,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ43.00000°,λ39.00000°. NP2:ϕ_s47.00000°,δ65.00000°,λ126.00000°. M_o1.67000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=16.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.4km az=153.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s160.00000°,δ65.00000°,λ31.00000°. NP2:ϕ_s56.00000°,δ62.00000°,λ152.00000°. Principal axes: T Plg39.0000°,Azm19.0000°; N Plg51.0000°,Azm195.0000°; P Plg2.0000°,Azm287.0000°

(159) North Island

WEL	**I**	**11 00 40 40.8–.08**	**38.91S**	**177.89E**	**32–0**	**3.5L**		
								¶15918290

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Hawke"s Bay region, maximum reported intensity MM 3.

(7) Andreanof Islands

ISC	**I**	**11 02 44 05.0–.77**	**51.66N–.07**	**176.10W–.03**	**57–5**	**4.8b,3.9s**	**815**	**0-160**
ISCJB	I	11 02 44 03.8–.29	51.72N–.03	176.12W–.02	61–2	4.8b,3.9s		**¶15917542**
IDC	I	11 02 44 03.1–1.9	51.68N	176.22W	40–15	4.4,4.4		
NEIC	I	11 02 44 04.7–.27	51.65N	176.23W	54–2	4.9b,4.8L		
MOS	I	11 02 44 04.6–1.2	51.72N	176.01W	72	4.8b,4.8L		
BJI	I	11 02 44 05.7	52.07N	176.58W	62	5.1b,5.1b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=2.1km az=175.3.
IDC Error ellipse: s-maj=14.3km s-min=9.5km az=167.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=2.0km az=171.0. Felt on Adak.
MOS Error ellipse: s-maj=13.7km s-min=7.3km az=107.9.

(135) Near coast of central Chile

ISC	**I**	**11 04 44 39.1–1.8**	**36.02S–.05**	**73.11W–.06**	**4–12**	**3.9b**	**33**	**0-86**
ISCJB	I	11 04 44 38.3–1.2	36.01S–.03	73.19W–.06	10–7	4.4s,3.8b		**¶15994818**
IDC	I	11 04 44 38.6–1.3	35.95S	72.79W	0	4.0,3.9L		
NEIC	I	11 04 44 40.0	36.06S	73.10W	28	4.3L,3.9L		
GUC	I	11 04 44 40.2–.45	36.06S	73.10W	28–2	4.3L,3.9L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.3km az=7.7.
IDC Error ellipse: s-maj=40.0km s-min=29.3km az=76.0.
NEIC Event type fe. Felt [III] at Cauquenes, Chanco and Cobquecura; [II] at Longavi and Talca. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(224) Hokkaido region

ISC	**I**	**11 05 11 42.5–.55**	**42.61N–.03**	**142.15E–.03**	**123–4**	**4.3b**	**164**	**0-114**
NIED	I	11 05 11 00	42.60N	142.10E	122	4.2W		**¶15925803**
BJI	I	11 05 11 41.3	42.70N	142.39E	142	4.8b,4.7b		
MOS	I	11 05 11 41.8–.82	42.76N	142.12E	124	4.5b,4.7b		
ISCJB	I	11 05 11 41.8–.21	42.57N–.02	142.15E–.03	130–1	4.2b,4.7b		
IDC	I	11 05 11 42.2–1.4	42.79N	142.12E	109–12	4.2,3.9		
NEIC	I	11 05 11 42.1–.53	42.70N	142.11E	114–5	4.7b,3.9		
JMA	I	11 05 11 42.4–.20	42.60N	142.14E	133–2	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ66.00000°,λ22.00000°. NP2:ϕ_s19.00000°,δ70.00000°,λ155.00000°. M_o2.37000×10^{15}
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=103.8.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=137.6.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=148.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.2km az=116.0. Recorded [2 JMA] in south-central Hokkaido and [1 JMA] in southwestern Hokkaido. Also recorded [1 JMA] in Aomori, Honshu.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s108.00000°,δ78.00000°,λ14.00000°. NP2:ϕ_s16.00000°,δ77.00000°,λ168.00000°. Principal axes: T Plg18.0000°,Azm332.0000°; N Plg72.0000°,Azm149.0000°; P Plg1.0000°,Azm242.0000°

(136) Central Chile

ISC	**I**	**11 05 33 33.1–.40**	**35.79S–.04**	**72.64W–.07**	**35**	**4.8b,4.8s**	**110**	**0-177**
GUC	I	11 05 33 23.3–.45	35.69S	73.46W	25–2	5.2L,4.8s		**¶15917547**
IDC	I	11 05 33 24.0–.64	35.79S	73.20W	0	4.7,4.7s		
ISCJB	I	11 05 33 31.3–.27	35.97S–.03	72.38W–.06	33	4.8b,4.7s		
NEIC	I	11 05 33 33.9–.48	35.62S	71.94W	35	5.2L,5.0b		
GCMT	I	11 05 33 33.9–.50	35.33S	72.08W	12	5.1W,5.0b		

ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=2.2km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=13.8km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=27.5.
NEIC Event type fe. Error ellipse: s-maj=14.8km s-min=12.1km az=76.0. Felt [IV] at Cauquenes, Concepcion, Constitucion, Longavi, Talca and Tome; [III] at Chiguayante, La Laja, San Pedro de la Paz and San Rosendo; [II] at Curico, Paredones, Pichilemu, Rancagua, San Fernando, Santa Cruz and Talcahuano. Also felt at Chillan, Linares and Rengo.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c37; s45,c64; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.97±.13 $M_{\theta\theta}$0.47±.11; $M_{\phi\phi}$-2.44±.12; $M_{r\theta}$-0.94±.35; $M_{\theta\phi}$1.40±.09; $M_{\phi r}$4.85±.30; Best double couple: NP1:ϕ_s349.00000°,δ77.00000°,λ98.00000°. NP2:ϕ_s138.00000°,δ15.00000°,λ60.00000°. Principal axes: T 5.0930,Plg57.0000°,Azm269.0000°; N 0.9110,Plg7.0000°,Azm167.0000°; P -6.0020,Plg32.0000°,Azm73.0000° M_o5.54800×10^{16}

(228) Near east coast of eastern Honshu

ISC	**I**	**11 16 01 15.6–.66**	**37.12N–.04**	**141.51E–.06**	**44–5**	**4.0b,3.1s**	**67**	**1-147**
NIED	I	11 16 01 00	37.20N	141.50E	41	4.1W,3.1s		**¶15920376**
ISCJB	I	11 16 01 13.4–.75	37.12N–.03	141.56E–.06	42–6	3.9b,3.4s		
JMA	I	11 16 01 15.4–.10	37.16N	141.41E	48–1	4.2,3.4s		
IDC	I	11 16 01 16.1–.70	37.12N	141.41E	47–6	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ20.00000°,λ113.00000°. NP2:ϕ_s13.00000°,δ71.00000°,λ82.00000°. M_o1.65000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.8km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s23.00000°,δ69.00000°,λ87.00000°. NP2:ϕ_s211.00000°,δ21.00000°,λ97.00000°. Principal axes: T Plg66.0000°,Azm288.0000°; N Plg3.0000°,Azm24.0000°; P Plg24.0000°,Azm115.0000°
IDC Error ellipse: s-maj=15.0km s-min=11.5km az=130.0.

(228) Near east coast of eastern Honshu

ISC	**I**	**11 20 20 49.3–2.2**	**37.03N–.06**	**141.5E–.10**	**31–11**		**22**	**1-42**
NIED	I	11 20 20 00	37.10N	141.20E	71	3.4W		**¶17189946**
IDC	I	11 20 20 39.3–10	36.77N	142.17E	0	3.3,3.3		
JMA	I	11 20 20 52.3–.10	37.06N	141.20E	50–1	3.4,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ19.00000°,λ144.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ74.00000°. M_o1.62000×10^{14}
IDC Error ellipse: s-maj=165.6km s-min=63.0km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(76) Off coast of central America

ISC	**I**	**12 01 05 35.6–.51**	**12.50N–.04**	**90.19W–.04**	**42–4**	**5.1b,4.2s**	**982**	**1-162**
IDC	I	12 01 05 29.1–.46	12.50N	90.04W	0	4.9,4.8		**¶15919544**
CASC	I	12 01 05 34.6–1.8	12.51N	90.13W	25–28	5.2b,4.3		
ISCJB	I	12 01 05 35.0–.43	12.63N–.03	90.13W–.02	48–3	5.1b,4.2s		
GCMT	I	12 01 05 36.6–.20	12.41N	90.55W	12	5.1W,4.2s		
MOS	I	12 01 05 36.4–.85	12.81N	90.27W	47	5.0b,4.1s		
NEIC	I	12 01 05 36.6–.59	12.51N	90.06W	48–5	5.2b,5.0		

ISC Event type fe.
IDC Error ellipse: s-maj=21.1km s-min=9.5km az=52.0.
CASC Error ellipse: s-maj=8.6km s-min=16.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=2.4km az=40.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c81; s102,c182; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.57±.11 $M_{\theta\theta}$5.05±.09; $M_{\phi\phi}$0.51±.11; $M_{r\theta}$1.00±.29; $M_{\theta\phi}$-2.05±.09; $M_{\phi r}$0.39±.39; Best double couple: NP1:ϕ_s284.00000°,δ49.00000°,λ-100.00000°. NP2:ϕ_s119.00000°,δ42.00000°,λ-79.00000°. Principal axes: T 5.8950,Plg4.0000°,Azm21.0000°; N -0.1810,Plg7.0000°,Azm290.0000°; P -5.7200,Plg82.0000°,Azm139.0000° M_o5.80700×10^{16}
MOS Error ellipse: s-maj=14.3km s-min=8.5km az=90.6.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.2km az=225.0. Felt [III] at San Salvador. Also felt at Guatemala, Guatemala.

(665) Yellow Sea

ISC	**I**	**12 01 19 50.1–.34**	**33.22N–.04**	**123.98E–.03**	**10**	**4.8b,4.1s**	**206**	**3-155**
ISCJB	I	12 01 19 48.2–.21	33.19N–.02	124.01E–.03	10	4.7b,4.1s		**¶15934395**
IDC	I	12 01 19 48.5–.56	33.28N	123.95E	0	4.3,4.2		
BJI	I	12 01 19 49.5	33.33N	123.90E	10	5.4L,4.8b		
NEIC	I	12 01 19 50.0–.24	33.29N	123.97E	10	4.9b,4.8b		
MOS	I	12 01 19 51.7–1.0	33.19N	124.00E	34	4.8b,4.0s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.1km az=136.0.
IDC Error ellipse: s-maj=13.4km s-min=11.8km az=26.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.5km az=122.0. Felt [II] at Shanghai, China. Also felt at Ningbo, Suzhou and Wuxi.
MOS Error ellipse: s-maj=10.0km s-min=5.9km az=105.7.

(49) Gulf of California

ISC	**I**	**12 02 38 14.4–.40**	**27.23N–.04**	**111.50W–.03**	**10**	**4.8b,4.3s**	**136**	**1-121**
ISCJB	I	12 02 38 12.3–.33	27.01N–.03	111.43W–.04	10	4.7b,4.3s		**¶15919549**
GCMT	I	12 02 38 13.6–.30	27.12N	111.44W	17–1	5.0W,4.3s		
BJI	I	12 02 38 13.1	26.80N	111.40W	10	5.2b,5.2s		
IDC	I	12 02 38 13.4–.59	27.31N	111.21W	0	4.4,4.3		
NEIC	I	12 02 38 13.6–.47	27.01N	111.41W	10	4.7b,4.5		
MEX	I	12 02 38 15.7–.64	27.28N	111.65W	14–14	4.5,4.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=45.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c39; s101,c149; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42±.12 $M_{\theta\theta}$-3.55±.12; $M_{\phi\phi}$3.97±.13; $M_{r\theta}$-0.71±.28; $M_{\theta\phi}$-0.41±.09; $M_{\phi r}$0.10±.27; Best double couple: NP1:ϕ_s133.00000°,δ83.00000°,λ-170.00000°. NP2:ϕ_s41.00000°,δ80.00000°,λ-7.00000°. Principal axes: T 3.9970,Plg2.0000°,Azm267.0000°; N -0.2810,Plg78.0000°,Azm168.0000°; P -3.7210,Plg12.0000°,Azm357.0000° M_o3.85900×10^{16}
IDC Error ellipse: s-maj=15.4km s-min=8.9km az=58.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=48.0. Felt [III] at Mulege. Also felt at Santa Rosalia.
MEX Error ellipse: s-maj=5.9km s-min=4.7km az=-1.0.

(243) Taiwan region

ISC	**I**	**12 03 53 09.1–.84**	**24.36N–.02**	**122.07E–.02**	**28–6**	**4.0b,3.5s**	**154**	**0-86**
NIED	I	12 03 53 00	24.30N	122.00E	35	4.4W,3.5s		**¶15990246**
BJI	I	12 03 53 07.7	24.37N	122.02E	6	4.6b,4.3b		
TAP	I	12 03 53 08.9	24.35N	122.04E	26–0	4.5L,4.3b		
JMA	I	12 03 53 08.9–.10	24.27N	122.01E	43–3	4.6,4.3b		
ISCJB	I	12 03 53 09.3–.25	24.37N–.02	122.10E–.01	28–2	3.9b,3.6s		
NEIC	I	12 03 53 10.3	24.38N	122.01E	10	4.5b,4.4L		
IDC	I	12 03 53 12.8–3.2	24.58N	122.21E	62–31	3.9,3.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ59.00000°,λ26.00000°. NP2:ϕ_s332.00000°,δ68.00000°,λ146.00000°. M_o3.83000×10^{15}
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=163.1.
NEIC Event type fe. Recorded [3 TAP] in Yilan, [2 TAP] in Hualien and [1 TAP] in Taoyuan. After TAP.
IDC Error ellipse: s-maj=21.5km s-min=15.5km az=61.0.

(135) Near coast of central Chile

ISC	**I**	**12 04 14 43.8–1.8**	**36.23S–.04**	**73.75W–.07**	**9–11**	**4.2b,3.9s**	**43**	**1-86**
NEIC	I	12 04 14 42.0	36.24S	73.78W	21	4.8L,3.9s		**¶15940509**

GUC I 12 04 14 42.9–.32 36.24S 73.78W 21–2 4.8L,3.9s
IDC I 12 04 14 43.2–1.1 36.25S 73.45W 0 4.0L,3.9
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Cobquecura; [III] at Chiguayante, Concepcion, Hualpen, San Pedro de la Paz, Talcahuano and Tome; [II] at Cauquenes, Linares and Parral. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=30.9km s-min=16.9km az=82.0.

(135) Near coast of central Chile

ISC I 12 06 38 02.3–.41 36.30S–.04 73.45W–.06 27 4.8b,3.9s 115 1-178
IDC I 12 06 37 58.5–.60 36.24S 73.43W 0 4.6,4.5L **¶15919552**
GUC I 12 06 37 59.7–.46 36.31S 73.65W 36–2 4.6L,4.5L
BJI I 12 06 38 00.9 35.67S 73.33W 30 5.5s,5.4
ISCJB I 12 06 38 01.0–.25 36.29S–.03 73.43W–.04 27 4.8b,3.9s
NEIC I 12 06 38 04.5–.98 36.26S 73.26W 40–8 4.8b,3.9s
ISC Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=13.0km az=85.0.
GUC Error ellipse: s-maj=1.4km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=8.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=5.9km az=78.0. Felt [IV] at Concepcion and Coronel; [III] at Penco, San Pedro de la Paz and Talcahuano; [II] at Parral, San Javier and Tome.

(478) Utah

ISC I 12 08 46 30.1–1.6 38.26N–.04 112.33W–.04 4–12 50 0-33
NEIC I 12 08 46 29.0 38.24N 112.34W 5 3.7W,3.6L **¶15928082**
IDC I 12 08 46 29.6–.69 38.34N 112.25W 0 3.6,3.6b
ISC Event type fe.
NEIC Event type fe. Felt at Cedar City and Marysvale. After SLC. Moment Tensor Solution. s14 Moment tensor: Scale 10^{14}Nm; M_{rr}-3.87 $M_{\theta\theta}$0.98 $M_{\phi\phi}$2.89 $M_{r\theta}$-2.10 $M_{\theta\phi}$1.72 $M_{\phi r}$-2.60 Best double couple: NP1:ϕ_s205.00000°,δ25.00000°,λ-100.00000°. NP2:ϕ_s36.00000° ,δ65.00000°,λ-85.00000°. Principal axes: T 5.1200,Plg20.0000°,Azm122.0000° ; N 0.0000,Plg4.0000°,Azm214.0000°; P -5.1300,Plg69.0000°,Azm315.0000° M_o5.10000×10^{14}
IDC Error ellipse: s-maj=8.0km s-min=7.3km az=37.0.

(39) Central California

ISC I 12 08 51 03.8–.66 36.66N–.04 121.54W–.05 10 4.2b,4.0s 153 0-94
ISCJB I 12 08 51 01.7–.30 36.64N–.02 121.63W–.04 10 4.1b,4.0s **¶15965843**
NEIC I 12 08 51 03.6 36.77N 121.50W 8 4.6b,4.5W
IDC I 12 08 51 03.2–.95 36.72N 121.40W 0 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.1km az=146.5.
NEIC Event type fe. Felt [IV] at Hollister, Paicines, Salinas and San Juan Bautista; [III] at Aromas, Big Sur, Boulder Creek, Capitola, Carmel, Castroville, Gilroy, Marina, Moss Landing, Oakland, Pebble Beach, Redwood City, San Carlos, San Francisco, San Jose, San Martin, Santa Cruz, Seaside and Soledad. Felt widely along the coast from Fairfax to Paso Robles and as far inland as Merced and Stockton. After NCEDC. Moment Tensor Solution. M_o7.00000×10^{15}
IDC Error ellipse: s-maj=12.7km s-min=8.2km az=51.0.

(276) Sunda Strait

ISC I 12 12 44 47.5–.62 7.05S–.04 105.20E–.04 50–4 4.8b,4.3s 223 1-156
BJI I 12 12 44 42.6 6.80S 105.20E 17 5.1b,4.7b **¶15922056**
MOS I 12 12 44 44.2–1.1 6.72S 105.32E 33 5.0b,4.1s
DJA I 12 12 44 45.6–.50 7S–2.0 105E–2.0 13–3 6.0,5.7b
NEIC I 12 12 44 45.8–.33 6.96S 105.08E 35 4.9b,5.7b
GCMT I 12 12 44 45.8–.30 7.17S 105.13E 51–1 5.0W,5.7b
ISCJB I 12 12 44 46.1–.48 7.08S–.03 105.15E–.03 64–3 4.7b,5.7b
IDC I 12 12 44 47.5–1.8 6.67S 105.35E 45–15 4.6,4.5
KLM I 12 12 44 51.2 6.97S 105.35E 63 6.0s,5.1b
ISC Event type fe.
MOS Error ellipse: s-maj=11.9km s-min=7.6km az=110.5.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=5.8km az=221.0. Felt [II] at Cisarua, Java. Also felt at Jakarta.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c59; s60,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.56±.17 $M_{\theta\theta}$-2.52±.13; $M_{\phi\phi}$-0.03±.18; $M_{r\theta}$1.90±.10; $M_{\theta\phi}$1.90±.09; $M_{\phi r}$0.14±.12; Best double couple: NP1:ϕ_s98.00000°,δ63.00000° ,λ66.00000°. NP2:ϕ_s322.00000°,δ36.00000°,λ128.00000°. Principal axes: T 3.3760,Plg64.0000°,Azm327.0000°; N 0.5820,Plg21.0000°,Azm110.0000° ; P -3.9560,Plg14.0000°,Azm205.0000° M_o3.66600×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.2km az=36.0.
IDC Error ellipse: s-maj=17.4km s-min=10.6km az=55.0.

(228) Near east coast of eastern Honshu

ISC I 12 13 16 16.1–.95 35.57N–.05 140.05E–.05 75–8 3.5b 24 0-59
NIED I 12 13 16 00 35.60N 140.10E 77 3.7W **¶17189996**
ISCJB I 12 13 16 14.8–.61 35.55N–.04 140.07E–.06 85–5 3.7b
JMA I 12 13 16 15.7–.20 35.62N 140.06E 73–2 3.5
IDC I 12 13 16 18.0–1.6 35.42N 139.86E 90–15 3.6s,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ33.00000°,λ-41.00000°. NP2:ϕ_s291.00000°,δ69.00000°,λ-116.00000°. M_o4.67000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=6.1km az=145.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s299.00000°,δ68.00000°,λ-131.00000°. NP2: ϕ_s185.00000°,δ46.00000°,λ-32.00000°. Principal axes: T Plg13.0000°,Azm57.0000° ; N Plg37.0000°,Azm317.0000°; P Plg50.0000°,Azm163.0000°
IDC Error ellipse: s-maj=32.2km s-min=6.9km az=70.0.

(159) North Island

ISC I 12 15 47 32.5–.51 39.06S–.02 177.29E–.03 34–1 4.2b,3.6s 244 0-154
IDC I 12 15 47 29.8–1.1 39.07S 176.89E 0 4.4L,4.3 **¶15925902**
NEIC I 12 15 47 33.9 38.93S 177.33E 36 4.6L,4.3
WEL I 12 15 47 33.3–.11 38.97S 177.39E 42–1 4.8L,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=9.9km az=109.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Gisborne to Hawke"s Bay, maximum reported intensity MM 5.

(135) Near coast of central Chile

ISC I 12 17 55 01.9–.79 34.72S–.05 72.66W–.07 10 4.0b,4.0s 35 1-85
ISCJB I 12 17 55 00.7–.55 34.71S–.03 72.75W–.06 10 4.0s,3.9b **¶15940510**
IDC I 12 17 55 00.9–1.0 34.71S 72.75W 0 4.5L,4.2
GUC I 12 17 55 01.9–.53 34.72S 72.73W 32–3 4.6L,4.2
NEIC I 12 17 55 05.8–.89 34.69S 72.67W 35 4.6L,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.3km az=15.8.
IDC Error ellipse: s-maj=36.8km s-min=20.5km az=94.0.
GUC Error ellipse: s-maj=2.1km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.4km s-min=11.5km az=87.0. Felt [III] at Constitucion and Pichilemu; [II] at Iloca, Rancagua, San Fernando and Talca.

(460) Wyoming

ISC I 12 20 17 05.4–.86 43.40N–.05 105.02W–.06 0 24 1-62
IDC I 12 20 16 59.6–1.2 42.41N 104.56W 0 4.2L,3.7 **¶17190016**
ISCJB I 12 20 17 06.0–.57 43.58N–.04 105.18W–.07 0 4.4b,3.6s
NEIC I 12 20 17 07.2–.58 43.58N 105.16W 0 3.2L,3.6s
ISC Event type sm.
IDC Error ellipse: s-maj=19.6km s-min=12.8km az=163.0.
ISCJB Event type fm. Error ellipse: s-maj=7.5km s-min=6.3km az=14.2.
NEIC Event type fm. Error ellipse: s-maj=8.1km s-min=6.7km az=119.0. 80 km [50 miles] WSW of Newcastle. Suspected Mining explosion.

(460) Wyoming

ISC I 12 20 30 32.5–.83 43.46N–.04 105.25W–.05 0 32 1-21
IDC I 12 20 30 30.1–1.9 43.14N 105.25W 0 3.5,3.3 **¶17190018**
ISCJB I 12 20 30 31.9–.53 43.57N–.04 105.24W–.06 0 3.4b,3.3
NEIC I 12 20 30 33.3–.38 43.56N 105.21W 0 3.1L,3.3
ISC Event type sm.
IDC Error ellipse: s-maj=34.9km s-min=8.5km az=154.0.
ISCJB Event type fm. Error ellipse: s-maj=6.5km s-min=6.2km az=38.4.
NEIC Event type fm. Error ellipse: s-maj=5.1km s-min=5.1km az=219.0. 85 km [50 miles] SSE of Gillette. Suspected Mining explosion.

(212) Bonin Islands region

ISC I 12 21 32 54.6–.18 26.97N–.02 140.02E–.02 524–1 6.2b 3157 2-172
NIED I 12 21 32 00 27.10N 140.20E 500 6.4W **¶15925918**
BJI I 12 21 32 53.3 26.95N 140.07E 520 6.5b,6.4b
NEIC I 12 21 32 53.9–.08 26.97N 139.88E 512 6.5W,6.5W
ISCJB I 12 21 32 54.4–.19 26.93N–.01 139.96E–.01 527–2 6.2b,6.5W
IDC I 12 21 32 54.8–.48 26.94N 140.08E 521–4 6.5,5.7
MOS I 12 21 32 54.1–.99 26.96N 139.94E 526 6.2b,5.7s
JMA I 12 21 32 54.5–.30 27.08N 140.17E 516–4 6.3,5.7s
GCMT I 12 21 32 55.2–.10 26.94N 139.94E 512–0 6.5W,5.7s
NEIC I 12 21 32 55.0–.00 26.94N 140.01E 520 6.5W,5.7s
NEIC I 12 21 33 08.6–.00 27.05N 140.34E 521 6.5W,5.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ34.00000°,λ-116.00000°. NP2:ϕ_s314.00000°,δ60.00000°,λ-74.00000°. M_o4.16000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=139.0. Recorded [2 JMA] in the Chichijima-retto and Hahajima-retto. Recorded [1 JMA] in Chiba, Fukushima, Gumma, Ibaraki, Kanagawa, Miyagi, Saitama and Tochigi, Honshu. Two events about 2 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.51 $M_{\theta\theta}$2.17 $M_{\phi\phi}$0.34 $M_{r\theta}$2.09 $M_{\theta\phi}$-2.01 $M_{\phi r}$-5.41 Best double couple: NP1:ϕ_s334.00000°,δ79.00000°,λ-72.00000°. NP2:ϕ_s95.00000°,δ21.00000°,λ-147.00000°. Principal axes: T 6.4400,Plg31.0000°,Azm49.0000°; N 0.2600,Plg17.0000°,Azm150.0000° ; P -6.7000,Plg53.0000°,Azm265.0000° M_o6.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s95.00000°,δ25.00000°,λ-142.00000°. NP2: ϕ_s330.00000°,δ75.00000°,λ-70.00000°. Principal axes: T Plg27.0000°,Azm44.0000° ; N Plg0.0000°,Azm0.0000°; P Plg56.0000°,Azm265.0000°
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.6km az=149.1.
IDC Error ellipse: s-maj=7.4km s-min=5.2km az=84.0.
MOS Error ellipse: s-maj=6.3km s-min=3.6km az=105.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s141,c355; s124,c225; Duration: 4s4 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.56±.03 $M_{\theta\theta}$4.17±.05; $M_{\phi\phi}$-0.61±.05; $M_{r\theta}$2.32±.04; $M_{\theta\phi}$-2.61±.04; $M_{\phi r}$-5.22±.04; Best double couple: NP1:ϕ_s325.00000°,δ74.00000° ,λ-63.00000°. NP2:ϕ_s84.00000°,δ31.00000°,λ-147.00000°. Principal axes: T 7.2630,Plg24.0000°,Azm35.0000°; N 0.2520,Plg26.0000°,Azm137.0000° ; P -7.5180,Plg53.0000°,Azm268.0000° M_o7.39000×10^{18}
NEIC Event type se. Moment Tensor Solution. s53 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.96 $M_{\theta\theta}$2.87 $M_{\phi\phi}$0.09 $M_{r\theta}$1.93 $M_{\theta\phi}$-1.20 $M_{\phi r}$-4.77 Best double couple: NP1:ϕ_s327.00000° ,δ76.00000°,λ-71.00000°. NP2:ϕ_s91.00000°,δ23.00000°,λ-143.00000°. Principal axes: T 5.3800,Plg29.0000°,Azm42.0000°; N 1.1400,Plg18.0000°,Azm143.0000° ; P -6.5200,Plg55.0000°,Azm261.0000° M_o5.90000×10^{18}
NEIC Event type se. Moment Tensor Solution. s76 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.21 $M_{\theta\theta}$3.59 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.11 $M_{\theta\phi}$-2.90 $M_{\phi r}$-5.12 Best double couple: NP1:ϕ_s329.00000° ,δ75.00000°,λ-63.00000°. NP2:ϕ_s86.00000°,δ31.00000°,λ-149.00000°. Principal axes: T 7.1400,Plg25.0000°,Azm38.0000°; N -0.0300,Plg26.0000°,Azm141.0000° ; P -7.1100,Plg53.0000°,Azm271.0000° M_o7.10000×10^{18}

(48) Baja California

ISC I 13 01 17 54.0–.94 31.25N–.04 115.65W–.03 10–9 49 0-7
ISCJB I 13 01 17 53.3–.50 31.27N–.03 115.64W–.03 9–5 **¶16022417**
ECX I 13 01 17 54.1–.52 31.24N 115.66W 5 3.8L,3.6
NEIC I 13 01 17 54.1 31.24N 115.65W 5 3.8L,3.8L
MEX I 13 01 17 55.1–.32 31.14N 115.72W 5 4.0,3.8L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=29.1.
ECX Error ellipse: s-maj=1.3km s-min=1.2km az=-1.0. Moment Tensor Solution. NP1:ϕ_s30.00000° ,δ90.00000°,λ0.00000°.
NEIC Event type fe. Felt at Vicente Guerrero. After ECX.
MEX Error ellipse: s-maj=8.5km s-min=7.9km az=-1.0.

(385) Strait of Gibraltar

ISC I 13 02 01 40.6–.80 37.09N–.02 4.75W–.02 11–6 240 0-7
SFS I 13 02 01 41.0 37.02N 4.82W 0 2.9L **¶15925931**
MDD I 13 02 01 41.9–.24 36.99N 4.75W 11–0 2.9
ISCJB I 13 02 01 41.2–.39 37.24N–.02 4.83W–.02 8–2 2.9
IGIL I 13 02 01 41.8 37.03N 4.83W 0 2.9
LDG I 13 02 01 41.7–.12 36.98N 4.81W 2 3.4L
INMG I 13 02 01 41.7–1.3 37.05N 4.80W 5–2 3.0L
CSEM I 13 02 01 42.3–.16 37.15N 4.81W 13–0 3.6L
ISC Event type ke.
SFS Event type ke.
MDD Event type fe. Error ellipse: s-maj=2.8km s-min=2.3km az=11.0. EMS: II INTENSIDAD MAXIMA. PRXIMO.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=176.9.
LDG Event type ke.
INMG Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=40.0.

(337) Eastern Caucasus

ISC I 13 02 50 12.6–.75 43.44N–.02 46.40E–.01 11–4 4.2b,3.3s 439 1-73
BJI I 13 02 50 09.8 43.68N 46.36E 10 4.7b,4.6b **¶15925932**
TIF I 13 02 50 09.8 43.51N 46.40E 14–2 4.7b,4.6b
ISCJB I 13 02 50 10.8–.36 43.49N–.01 46.41E–.02 3–2 4.0b,3.4s
IDC I 13 02 50 10.2–.54 43.17N 46.20E 0 4.1,4.0
NEIC I 13 02 50 11.9–.31 43.25N 46.23E 10 4.1b,4.0
MOS I 13 02 50 13.2–1.2 43.43N 46.38E 22 4.1b,4.0
AZER I 13 02 50 13.8–2.9 43.04N 46.14E 2 4.1b,4.0
CSEM I 13 02 50 14.7–.11 43.44N 46.29E 20 4.1b,4.0
NNC I 13 02 50 31.2–9.0 44.55N 46.54E 138–50 3.9b,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=137.2.
IDC Error ellipse: s-maj=10.6km s-min=7.8km az=161.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.6km az=169.0. Felt [V] at Kurchaloy, Mayrtup and Oyskhara.
MOS Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=124.5. Felt(IV-V) at Kurchaloy, Oyskhara, Mayrtup. Moment Tensor Solution.
AZER Error ellipse: s-maj=3.8km s-min=1.5km az=356.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=49.0.
NNC Event type se. Error ellipse: s-maj=111.6km s-min=75.4km az=135.0.

(39) Central California

NEIC I 13 03 54 35.0 36.80N 121.54W 7 3.7W
¶601989282
NEIC Event type fe. Felt [III] at Hollister, Salinas and Santa Cruz. Also felt at Aptos, Gilroy, Marina, Monterey, Morgan Hill, San Juan Bautista, Seaside and Watsonville. After NCEDC. Moment Tensor Solution. M_o4.10000×10^{14}

(39) Central California

ISC I 13 04 00 34.2–1.6 36.68N–.04 121.78W–.04 5–11 87 0-17
IDC I 13 04 00 33.4–1.6 36.67N 121.88W 0 3.7,3.5 **¶15928089**
NEIC I 13 04 00 35.9 36.80N 121.54W 7 3.9W,3.5
ISC Event type fe.
IDC Error ellipse: s-maj=17.8km s-min=12.9km az=60.0.
NEIC Event type fe. Felt [III] at Aptos, Aromas, Carmel, Castroville, Gilroy, Hollister, Marina, Monterey, Morgan Hill, Pacific Grove, Salinas, San Jose, San Juan Bautista, San Martin, Seaside and Watsonville. Felt widely in the Monterey Bay and San Francisco Bay areas from San Rafael to Big Sur. After NCEDC. Moment Tensor Solution. M_o9.30000×10^{14}

(136) Central Chile

ISC I 13 04 07 02.9–.84 36.07S–.05 71.53W–.06 103–8 3.9b 35 1-154
IDC I 13 04 06 47.8–2.2 35.42S 72.42W 0 3.8,3.8b **¶16002291**
SJA I 13 04 06 58.6–.79 36.15S 71.56W 248–50 4.0L,3.2W
ISCJB I 13 04 07 02.0–.45 36.12S–.04 71.42W–.07 105–7 3.7b,3.2W
GUC I 13 04 07 03.2–.46 36.13S 71.50W 109–4 4.1L,3.2W
NEIC I 13 04 07 03.0 36.13S 71.50W 109 4.1,3.2W
ISC Event type fe.
IDC Error ellipse: s-maj=79.7km s-min=29.1km az=111.0.
SJA Error ellipse: s-maj=19.8km s-min=40.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=24.8.
GUC Error ellipse: s-maj=2.4km s-min=4.3km az=-1.0.
NEIC Event type fe. Felt [IV] at Retiro; [III] at Parral, Pencahue and San Javier; [II] at Cauquenes and Linares. After GUC.

(160) Off east coast of North Island

ISC I 13 12 04 55.3–.28 37.08S–.05 179.58E–.05 33 5.5b,5.1s 532 1-176
WEL I 13 12 04 53.7–.45 36.93S 179.94E 33 5.7L,5.1s **¶16019205**
BJI I 13 12 04 54.0 37.00S 179.50E 41 5.6b,5.5s
ISCJB I 13 12 04 55.2–.17 36.98S–.03 179.54E–.03 33 5.5b,5.1s
MOS I 13 12 04 55.4–1.3 36.83S 179.39E 33 5.6b,5.2s
NEIC I 13 12 04 56.4–.23 36.92S 179.46E 35 5.5L,5.5b

IDC I 13 12 04 56.9–1.6 36.73S 179.48E 39–12 5.3,5.1L
GCMT I 13 12 04 57.1–.10 36.87S 179.82E 19–0 5.5W,5.1L
ISC Event type fe.
WEL Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.3km az=138.1.
MOS Error ellipse: s-maj=12.4km s-min=11.7km az=9.5.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=157.0. Felt at Gisborne.
IDC Error ellipse: s-maj=13.1km s-min=12.5km az=174.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c128; s114,c219; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$-1.04±.02; $M_{\phi\phi}$1.16±.02; $M_{r\theta}$0.01±.04; $M_{\theta\phi}$1.11±.02; $M_{\phi r}$1.17±.07; Best double couple: NP1:ϕ_s338.00000°,δ86.00000°,λ146.00000°. NP2:ϕ_s71.00000°,δ56.00000°,λ5.00000°. Principal axes: T 2.1540,Plg26.0000°,Azm289.0000°; N -0.4870,Plg56.0000°,Azm153.0000°; P -1.6640,Plg20.0000°,Azm30.0000° $M_0$1.90900×10^{17}

(259) Mindanao

ISC	**I**	**13 15 50 33.2–1.1**	**9.23N–.02**	**125.61E–.04**	**15–6**	**4.4b,3.5s**	**80**	**0-120**
NEIC	I	13 15 50 31.2–.47	9.15N	125.61E	10	4.7b,3.5s		**¶15954478**
MAN	I	13 15 50 33	9.24N	125.58E	6	5.2b,4.1L		
BJI	I	13 15 50 34.2	9.10N	125.60E	25	5.0b,4.6b		
IDC	I	13 15 50 39.6–2.4	9.17N	125.55E	68–23	4.1,3.9		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=14.6km s-min=8.6km az=73.0. Felt [IV PIVS] at Santiago; [III PIVS] at Butuan and Cabadbaran; [II PIVS] at Placer.
MAN Event type fe. INTENSITY IV - SANTIAGO AGUSAN DEL SUR; INTENSITY III - BUTUAN CITY & CABADBARAN AGUSAN DEL NORTE; INTENSITY II - PLACER SURIGAO DEL NORTE.
IDC Error ellipse: s-maj=23.8km s-min=12.8km az=75.0.

(188) Loyalty Islands

ISC	**I**	**13 16 16 42.7–.39**	**20.60S–.03**	**168.59E–.03**	**15–2**	**7.0s,6.7b**	**2592**	**2-167**
ISCJB	I	13 16 16 39.5–1.5	20.59S–.02	168.48E–.02	3–9	7.0s,6.6b		**¶15925960**
IDC	I	13 16 16 40.3–.25	20.70S	168.57E	0	6.7,6.7s		
GCMT	I	13 16 16 41.5–.00	20.68S	168.34E	17–0	6.9W,6.7s		
BJI	I	13 16 16 41.4	20.20S	168.56E	9	7.1b,7.1s		
NEIC	I	13 16 16 41.5–.08	20.63S	168.47E	9	7.1,7.1s		
NEIC	I	13 16 16 41.0–.00	20.59S	168.55E	15	7.1,7.1s		
MOS	I	13 16 16 43.7–1.1	20.63S	168.46E	30	7.1s,6.8b		
NEIC	I	13 16 17 05.3–.00	20.61S	168.04E	23	7.1s,6.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=11.7.
IDC Error ellipse: s-maj=10.2km s-min=8.6km az=5.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c381; s146,c721;Duration: 7s2 Moment tensor: Scale 10^{19} Nm; M_{rr}-2.98±.01 $M_{\theta\theta}$0.45±.01; $M_{\phi\phi}$2.53±.01; $M_{r\theta}$-0.63±.03; $M_{\theta\phi}$-1.27±.01; $M_{\phi r}$0.58±.03; Best double couple: NP1:ϕ_s149.00000°,δ53.00000°,λ-98.00000°. NP2:ϕ_s341.00000°,δ38.00000°,λ-80.00000°. Principal axes: T 3.2330,Plg7.0000°,Azm244.0000°; N -0.1180,Plg6.0000°,Azm153.0000°; P -3.1160,Plg80.0000°,Azm24.0000° $M_0$3.17400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=143.0. Felt [II] at Noumea, New Caledonia. Also felt at Bouloupari. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$5.30000×10^{19}
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.90 $M_{\theta\theta}$0.11 $M_{\phi\phi}$2.78 $M_{r\theta}$-1.98 $M_{\theta\phi}$-1.17 $M_{\phi r}$0.47 Best double couple: NP1:ϕ_s134.00000°,δ60.00000°,λ-117.00000°. NP2:ϕ_s1.00000°,δ39.00000°,λ-50.00000°. Principal axes: T 3.4500,Plg11.0000°,Azm244.0000°; N 0.4200,Plg24.0000°,Azm149.0000°; P -3.8800,Plg63.0000°,Azm358.0000° $M_0$3.70000×10^{19}
MOS Error ellipse: s-maj=6.8km s-min=5.8km az=91.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s19.00000°,δ58.00000°,λ-39.00000°. NP2:ϕ_s133.00000°,δ58.00000°,λ-141.00000°. Principal axes: T Plg0.0000°,Azm76.0000°; N Plg41.0000°,Azm166.0000°; P Plg49.0000°,Azm346.0000°
NEIC Event type se. Moment Tensor Solution. s152 Moment tensor: Scale 10^{19}Nm; M_{rr}-3.32 $M_{\theta\theta}$0.58 $M_{\phi\phi}$2.74 $M_{r\theta}$-1.99 $M_{\theta\phi}$-1.24 $M_{\phi r}$0.41 Best double couple: NP1:ϕ_s134.00000°,δ59.00000°,λ-113.00000°. NP2:ϕ_s354.00000°,δ38.00000°,λ-57.00000°. Principal axes: T 3.5400,Plg11.0000°,Azm240.0000°; N 0.6200,Plg20.0000°,Azm146.0000°; P -4.1600,Plg67.0000°,Azm358.0000° $M_0$3.90000×10^{19}

(159) North Island

WEL	**I**	**13 16 31 24.9–.11**	**38.63S**	**177.92E**	**25–1**	**4.1L**		
NEIC	I	13 16 31 21.4	38.55S	177.94E	19	4.0L		**¶15927318**

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt in the Gisborne region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(188) Loyalty Islands

ISC	**I**	**13 16 43 10.8–.22**	**20.67S–.04**	**168.47E–.04**	**30–1**	**6.3s,5.9b**	**990**	**2-166**
NEIC	I	13 16 43 07.7–.10	20.61S	168.40E	10	5.9b,5.9b		**¶15925966**
GCMT	I	13 16 43 07.7–.20	20.55S	168.29E	18–1	6.0W,5.9b		
BJI	I	13 16 43 08.4	19.97S	168.62E	13	6.4s,6.1		
MOS	I	13 16 43 09.7–1.2	20.59S	168.33E	28	5.8b,6.1		
ISCJB	I	13 16 43 10.9–.09	20.67S–.02	168.41E–.02	40	6.3s,5.8b		
IDC	I	13 16 43 12.0–.25	20.64S	168.47E	38–1	5.7s,5.7		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.4km az=121.0. Felt at Noumea, New Caledonia.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s18,c20; s78,c168;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06±.06 $M_{\theta\theta}$0.28±.03; $M_{\phi\phi}$0.77±.04; $M_{r\theta}$0.07±.09; $M_{\theta\phi}$-0.37±.02; $M_{\phi r}$0.07±.07; Best double couple: NP1: ϕ_s157.00000°,δ46.00000°,λ-83.00000°. NP2:ϕ_s327.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 0.9760,Plg1.0000°,Azm242.0000°; N 0.0880,Plg5.0000°,Azm332.0000°; P -1.0690,Plg85.0000°,Azm142.0000° $M_0$1.02200×10^{18}
MOS Error ellipse: s-maj=9.3km s-min=8.0km az=108.1.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.5km az=162.6.
IDC Error ellipse: s-maj=9.0km s-min=8.7km az=56.0.

(377) Spain

ISC	**I**	**13 17 42 54.2–.00**	**37.06N–.02**	**4.76W–.01**	**11–8**		**330**	**0-7**
ISCJB	I	13 17 42 53.5–.29	37.17N–.02	4.78W–.01	5–2			**¶15925970**
CSEM	I	13 17 42 54.6–.09	37.09N	4.77W	5	3.6L		
SFS	I	13 17 42 54.0	37.04N	4.86W	0	3.1L		
LDG	I	13 17 42 55.6–.12	37.01N	4.83W	2	3.7L		
INMG	I	13 17 42 56.5–1.7	37.00N	4.65W	24–4	3.3L		
IGIL	I	13 17 42 56.0	36.95N	4.71W	15	3.0L		
MDD	I	13 17 42 56.0–.23	37.01N	4.76W	11–0	3.0		
CNRM	I	13 17 43 00.0	37.06N	4.89W	30	3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=8.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=2.0.
SFS Event type ke.
LDG Event type ke.
INMG Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=147.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=2.1km az=176.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.

(134) Off coast of central Chile

ISC	**I**	**13 20 30 13.1–3.3**	**29.46S–.05**	**72.05W–.07**	**12–20**	**4.0b**	**37**	**1-166**
IDC	I	13 20 30 10.7–.95	29.42S	72.21W	0	4.0L,4.0		**¶15994848**
GUC	I	13 20 30 15.7–.75	29.52S	71.91W	29–6	4.4L,4.0		
NEIC	I	13 20 30 15.7–.67	29.39S	72.07W	35	4.4L,3.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=30.1km s-min=26.5km az=120.0.
GUC Error ellipse: s-maj=2.0km s-min=6.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.9km s-min=11.4km az=110.0. Felt [III] at Coquimbo and La Serena; [II] at La Higuera.

(162) South Island

WEL	**I**	**14 03 39 38.7–.10**	**43.61S**	**172.21E**	**16–1**	**3.8L**		
NEIC	I	14 03 39 38.8	43.56S	172.22E	11	3.8L		**¶15927322**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.

(280) Banda Sea

ISC	**I**	**14 16 39 29.4–.32**	**7.03S–.03**	**129.18E–.04**	**170–2**	**5.0b**	**724**	**2-168**
BJI	I	14 16 39 24.3	7.34S	129.43E	169	5.0b,4.8b		**¶15928096**
MOS	I	14 16 39 27.7–1.2	6.86S	129.10E	161	5.0b,4.0s		
KLM	I	14 16 39 29.7	7.23S	129.31E	168	6.3s,5.6b		
IDC	I	14 16 39 29.9–.48	6.91S	129.22E	169–3	5.2,4.7		
NEIC	I	14 16 39 29.3–.15	6.96S	129.23E	168	5.4b,4.7		
ISCJB	I	14 16 39 29.6–.28	7.03S–.02	129.23E–.02	187–2	5.0b,4.7		
GCMT	I	14 16 39 29.3–.10	6.99S	129.21E	178–1	5.4W,4.7		
DJA	I	14 16 39 30.6–.20	7S–2.0	129E–2.0	166–5	6.1,5.9		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Darwin, Australia.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c131; s104,c192;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.54±.02 $M_{\theta\theta}$-0.77±.02; $M_{\phi\phi}$1.31±.02; $M_{r\theta}$0.52±.02; $M_{\theta\phi}$0.06±.02; $M_{\phi r}$0.78±.02; Best double couple: NP1:ϕ_s215.00000°,δ76.00000°,λ-50.00000°. NP2:ϕ_s321.00000°,δ42.00000°,λ-159.00000°. Principal axes: T 1.6150,Plg21.0000°,Azm276.0000°; N -0.3450,Plg38.0000°,Azm24.0000°; P -1.2690,Plg44.0000°,Azm164.0000° $M_0$1.44200×10^{17}

(228) Near east coast of eastern Honshu

ISC	**I**	**14 18 58 33.7–.81**	**35.63N–.05**	**140.18E–.06**	**71–7**	**3.8b**	**37**	**0-92**
NIED	I	14 18 58 00	35.70N	140.30E	68	4.0W		**¶17190205**
ISCJB	I	14 18 58 32.3–.49	35.64N–.04	140.21E–.06	75–4	3.6b		
IDC	I	14 18 58 32.9–1.9	35.61N	140.30E	66–16	3.8,3.7		
JMA	I	14 18 58 33.0–.10	35.73N	140.19E	62–1	3.4,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ29.00000°,λ87.00000°. NP2:ϕ_s350.00000°,δ61.00000°,λ92.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=145.2.
IDC Error ellipse: s-maj=24.9km s-min=10.3km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ88.00000°,λ90.00000°. NP2: ϕ_s187.00000°,δ2.00000°,λ76.00000°. Principal axes: T Plg47.0000°,Azm292.0000°; N Plg0.0000°,Azm21.0000°; P Plg43.0000°,Azm111.0000°

(658) Northeastern China

ISC	**I**	**15 00 43 44.2–.39**	**48.80N–.03**	**125.84E–.03**	**10**	**4.0b,3.6s**	**103**	**4-81**
ISCJB	I	15 00 43 41.5–.29	48.74N–.03	126.01E–.05	10	4.0b,3.5s		**¶16057165**
SKHL	I	15 00 43 42.7–.80	48.67N	125.92E	15–3	4.9b,4.5s		
BJI	I	15 00 43 42.0	48.59N	125.98E	10	4.8L,4.4b		
MOS	I	15 00 43 42.1–1.8	48.77N	126.06E	10	4.3b,4.4b		
IDC	I	15 00 43 42.5–.67	48.68N	125.86E	0	4.1,3.9		
NEIC	I	15 00 43 44.2–.42	48.66N	125.86E	10	4.2b,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.0km az=21.9.
SKHL Event type fe. Felt (II-III) at Blagoveshchensk.
MOS Event type fe. Error ellipse: s-maj=9.9km s-min=8.1km az=97.5. Felt (II-III) at Blagoveshchensk. Moment Tensor Solution.
IDC Error ellipse: s-maj=17.0km s-min=15.2km az=14.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.8km az=7.0. Felt [III] at Blagoveshchensk, Russia.

(439) Manitoba

NEIC	**I**	**15 01 05 46.7**	**50.96N**	**101.75W**	**1**	**3.1**		**¶601989344**

NEIC Event type fe. Felt in the Esterhazy area, Saskatchewan. After OTT.

(186) Vanuatu Islands

ISC	**I**	**15 06 09 08.5–.32**	**14.62S–.04**	**167.29E–.04**	**183–2**	**5.2b**	**545**	**7-169**
BJI	I	15 06 09 07.6	14.47S	167.64E	195	5.2b,4.8b		**¶16019221**
IDC	I	15 06 09 07.4–.48	14.55S	167.39E	179–3	5.1,4.6		
ISCJB	I	15 06 09 08.3–.89	14.63S–.03	167.27E–.03	192–8	5.1b,4.6		
MOS	I	15 06 09 08.1–1.4	14.52S	167.28E	187	5.0b,4.6		
GCMT	I	15 06 09 10.3–.10	14.67S	167.17E	169–0	5.8W,4.6		
NEIC	I	15 06 09 10.3–.84	14.59S	167.29E	198–7	5.4b,4.6		

ISC Event type fe.
IDC Error ellipse: s-maj=11.2km s-min=8.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.2km az=31.6.
MOS Error ellipse: s-maj=11.3km s-min=9.3km az=131.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c257; s136,c401;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}4.89±.04 $M_{\theta\theta}$0.00±.06; $M_{\phi\phi}$-4.89±.06; $M_{r\theta}$-3.43±.04; $M_{\theta\phi}$3.77±.06; $M_{\phi r}$-0.60±.04; Best double couple: NP1: ϕ_s303.00000°,δ59.00000°,λ51.00000°. NP2:ϕ_s180.00000°,δ48.00000°,λ136.00000°. Principal axes: T 7.1230,Plg57.0000°,Azm158.0000°; N -0.0680,Plg33.0000°,Azm326.0000°; P -7.0540,Plg6.0000°,Azm59.0000° $M_0$7.08800×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=223.0. Felt at Luganville and Port-Vila.

(2) Southern Alaska

ISC	**I**	**15 07 26 56.4–.64**	**59.73N–.03**	**152.97W–.04**	**106–5**	**4.1b**	**139**	**0-149**
ISCJB	I	15 07 26 54.9–.20	59.72N–.02	152.94W–.04	112–2	4.1b		**¶16007273**
IDC	I	15 07 26 54.8–1.2	59.73N	153.30W	88–13	4.2,4.0		
NEIC	I	15 07 26 57.3	59.70N	152.94W	99	3.9,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=138.4.
IDC Error ellipse: s-maj=14.5km s-min=11.1km az=64.0.
NEIC Event type fe. Felt at Homer. After AEIC.

(288) Savu Sea

ISC	**I**	**15 08 58 42.2–.48**	**9.50S–.04**	**121.59E–.05**	**100**	**4.4b**	**48**	**1-153**
ISCJB	I	15 08 58 40.9–.34	9.57S–.04	121.51E–.04	100	4.4b		**¶16007272**
IDC	I	15 08 58 40.3–.70	9.30S	121.44E	71–6	4.4,4.1		
DJA	I	15 08 58 40.5–.50	10S–2.0	122E–2.0	23–5	5.4b,5.0b		
NEIC	I	15 08 58 40.5–.76	9.37S	121.45E	75–7	4.4b,5.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=159.0.
IDC Error ellipse: s-maj=24.1km s-min=11.0km az=63.0.
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=6.8km az=48.0. Felt [III] at Ende, Indonesia.

(706) Northern Sumatera

ISC	**I**	**15 11 23 54.3–.31**	**2.48N–.03**	**96.29E–.03**	**28–1**	**5.7b,5.6s**	**1299**	**1-174**
BJI	I	15 11 23 50.7	2.44N	96.31E	22	6.0s,5.9b		**¶15931118**
ISCJB	I	15 11 23 51.6–.57	2.43N–.02	96.27E–.02	23–4	5.7b,5.6s		
NEIC	I	15 11 23 52.9–.13	2.49N	96.28E	17	5.8b,5.7		
KLM	I	15 11 23 53.6	2.45N	96.33E	9	6.8s,5.8b		
MOS	I	15 11 23 53.8–1.1	2.60N	96.33E	36	5.9b,5.5s		
GCMT	I	15 11 23 53.2–.10	2.26N	96.13E	17–0	5.8W,5.5s		
DJA	I	15 11 23 53.2–.20	2N–2.0	96E–3.0	10	6.1b,5.9		
IDC	I	15 11 23 55.0–2.5	2.56N	96.32E	33–18	5.4,5.4s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=44.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=32.0. Felt [IV] at Sinabang. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}2.81 $M_{\theta\theta}$0.69 $M_{\phi\phi}$-3.50 $M_{r\theta}$2.16 $M_{\theta\phi}$1.39 $M_{\phi r}$-0.60 Best double couple: NP1:ϕ_s11.00000°,δ43.00000°,λ137.00000°. NP2:ϕ_s135.00000°,δ62.00000°,λ55.00000°. Principal axes: T 4.1600,Plg57.0000°,Azm357.0000°; N -0.0200,Plg30.0000°,Azm153.0000°; P -4.1500,Plg11.0000°,Azm249.0000° $M_0$4.20000×10^{17}
MOS Error ellipse: s-maj=7.5km s-min=4.2km az=115.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c218; s118,c280;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}2.57±.04 $M_{\theta\theta}$-1.50±.03; $M_{\phi\phi}$-1.07±.04; $M_{r\theta}$3.32±.14; $M_{\theta\phi}$1.26±.02; $M_{\phi r}$-3.38±.15; Best double couple: NP1: ϕ_s135.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s306.00000°,δ14.00000°,λ81.00000°. Principal axes: T 5.4000,Plg59.0000°,Azm48.0000°; N -0.0240,Plg2.0000°,Azm314.0000°; P -5.3760,Plg31.0000°,Azm223.0000° $M_0$5.38800×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=9.2km az=52.0.

(135) Near coast of central Chile

ISC	**I**	**15 11 31 43.5–1.1**	**38.62S–.06**	**73.8W–.10**	**10**	**4.4b**	**21**	**0-161**
ISCJB	I	15 11 31 41.6–.95	38.56S–.05	74.0W–.10	10	4.0b		**¶16031146**
IDC	I	15 11 31 42.1–2.1	38.67S	73.92W	0	4.1,4.1b		
GUC	I	15 11 31 46.4–.33	38.63S	73.46W	47–1	4.4L,4.1b		
NEIC	I	15 11 31 47.6–1.1	38.53S	73.86W	35	4.4,4.1b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=5.8km az=163.4.
IDC Error ellipse: s-maj=56.4km s-min=18.4km az=59.0.
GUC Error ellipse: s-maj=1.0km s-min=12.1km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=24.9km s-min=12.2km az=72.0. Felt [III] at Tolten.

(280) Banda Sea

ISC	**I**	**15 12 56 26.9–.25**	**5.62S–.03**	**130.29E–.03**	**202–1**	**5.4b**	**1075**	**1-168**
IDC	I	15 12 56 25.9–.58	5.65S	130.27E	193–5	5.4,4.9		¶15931134
ISCJB	I	15 12 56 25.9–.23	5.67S–.02	130.33E–.02	208–2	5.3b,4.9		
MOS	I	15 12 56 25.1–.95	5.59S	130.21E	200	5.4b,4.4s		
BJI	I	15 12 56 25.4	5.61S	130.48E	212	5.3b,5.2b		
GCMT	I	15 12 56 26.8–.10	5.58S	130.26E	196–0	5.7W,5.2b		
NEIC	I	15 12 56 26.8–.40	5.65S	130.25E	199–3	5.7W,5.5b		
DJA	I	15 12 56 27.4–.10	6S–2.0	130E–1.0	192–2	6.5,5.9		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c235; s135,c371;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}-2.80±.04 $M_{\theta\theta}$2.30±.04; $M_{\phi\phi}$0.50±.05; $M_{r\theta}$-2.34±.04; $M_{\theta r}$-1.57±.04; $M_{\theta r}$2.83±.04; Best double couple: NP1:ϕ_s136.00000°,δ71.00000°,λ-78.00000°. NP2:ϕ_s283.00000°,δ22.00000°,λ-121.00000°. Principal axes: T 4.8300,Plg25.0000°,Azm217.0000°; N -0.1460,Plg11.0000°,Azm312.0000°; P -4.6830,Plg62.0000°,Azm64.0000° $M_0$4.75700×10^{17}

NEIC Event type fe. Felt [II] at Darwin, Australia. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.42 $M_{\theta\theta}$1.52 $M_{\phi\phi}$1.91 $M_{r\theta}$-1.57 $M_{\theta\phi}$-0.90 $M_{\theta r}$2.05 Best double couple: NP1:ϕ_s321.00000°,δ25.00000°,λ-91.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ-90.00000°. Principal axes: T 3.5800,Plg20.0000°,Azm232.0000°; N 0.8000,Plg0.0000°,Azm322.0000°; P -4.3700,Plg70.0000°,Azm53.0000° $M_0$4.00000×10^{17}

(221) Kuril Islands

ISC	**I**	**16 03 35 44.6–.71**	**44.09N–.04**	**147.86E–.05**	**88–5**	**4.5b**	**258**	**1-115**
NIED	I	16 03 35 00	43.90N	148.00E	74	4.2W		¶15931175
IDC	I	16 03 35 42.8–2.3	44.15N	147.86E	67–20	4.4,4.3		
MOS	I	16 03 35 43.6–.97	44.27N	147.88E	83	4.5b,4.3		
ISCJB	I	16 03 35 43.2–.41	44.08N–.03	147.93E–.04	85–3	4.4b,4.3		
BJI	I	16 03 35 43.2	44.04N	148.14E	99	5.0b,4.5b		
NEIC	I	16 03 35 44.9–.59	44.14N	147.91E	86–5	4.6b,4.5b		
SKHL	I	16 03 35 44.8–.80	44.06N	147.91E	92–4	6.1s,5.4b		
JMA	I	16 03 35 44.6–.20	43.86N	147.97E	62	5.1,5.4b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ60.00000°,λ19.00000°. NP2:ϕ_s61.00000°,δ74.00000°,λ148.00000°. $M_0$2.24000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=163.0.
MOS Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=104.9. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=144.4.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.0km az=154.0. Felt [II] at Yuzhno-Kuril'sk. Recorded [2 JMA] in eastern Hokkaido.
SKHL Event type fe. Felt (II) at Yushno-Kurillsk.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

(134) Off coast of central Chile

ISC	**I**	**16 05 19 49.7–1.0**	**38.55S–.07**	**73.8W–.10**	**10**	**3.5b**	**19**	**0-161**
NEIC	I	16 05 19 39.0	39.08S	74.92W	29	4.7L,4.4b		¶16151536
GUC	I	16 05 19 39.3–.30	39.08S	74.93W	29–15	4.7L,4.4b		
ISCJB	I	16 05 19 48.9–1.1	38.54S–.09	73.9W–.20	10	3.7b,4.4b		
IDC	I	16 05 19 48.7–1.7	38.59S	73.73W	0	4.0,3.8L		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Angol, Canete, Padre Las Casas, Puerto Saavedra, Renaico, Temuco, Tirua and Tolten. After GUC.
GUC Error ellipse: s-maj=13.6km s-min=5.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=18.7km s-min=10.2km az=153.7.
IDC Error ellipse: s-maj=56.7km s-min=18.4km az=44.0.

(456) Montana

ISC	**I**	**16 07 52 48.6–.62**	**46.80N–.03**	**112.20W–.03**	**0**		**99**	**0-26**
IDC	I	16 07 52 48.9–.73	46.76N	112.23W	0	3.6,3.4		¶15954486
ISCJB	I	16 07 52 49.3–.29	46.77N–.02	112.29W–.03	0	3.1b,3.4		
NEIC	I	16 07 52 50.0	46.79N	112.18W	15	3.7L,3.4		

ISC Event type fi.
IDC Error ellipse: s-maj=9.6km s-min=7.5km az=55.0.
ISCJB Event type fi. Error ellipse: s-maj=3.7km s-min=2.4km az=44.7.
NEIC Event type fi. Felt [III] at Helena and Canyon Creek and [II] at Clancy and East Helena. Also felt at Billings, Missoula, White Sulphur Springs and Wolf Creek. A sinkhole opened to an old mining stope on Mount Belmont and a haystack collapsed near Sieben. After BUT.

(236) Shikoku

ISC	**I**	**16 11 33 24.7–.47**	**34.01N–.03**	**133.77E–.02**	**36–1**	**4.2b,3.4s**	**153**	**0-147**
NIED	I	16 11 33 00	34.00N	133.80E	38	4.5W,3.4s		¶15931187
IDC	I	16 11 33 18.7–.66	33.94N	133.76E	0	4.1,4.0		
BJI	I	16 11 33 20.1	33.76N	134.16E	39	4.8b,4.5b		
MOS	I	16 11 33 22.2–.98	33.93N	133.77E	36	4.3b,4.5b		
NEIC	I	16 11 33 24.9–.50	33.94N	133.74E	41–4	4.6b,4.5b		
JMA	I	16 11 33 24.7	34.01N	133.78E	44	4.5,4.5b		
ISCJB	I	16 11 33 24.1–.26	34.05N–.03	133.76E–.02	43–2	4.3b,3.4s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ79.00000°,λ-10.00000°. NP2:ϕ_s163.00000°,δ80.00000°,λ-169.00000°. $M_0$7.38000×10^{15}
NEIC Event type fe. Felt at Kamojima, Niihama, Tokushima and Waki. Also felt at Kamogata, Kokubunji, Okayama and Tsuyama, Honshu. Recorded [3 JMA] in Ehime, Kagawa, Kochi and Tokushima, Shikoku. Also recorded [3 JMA] in Okayama, [2 JMA] in Hiroshima and [1 JMA] in Hyogo, Shimane, Tottori, Wakayama and Yamaguchi, Honshu.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s152.00000°,δ68.00000°,λ-142.00000°. NP2:ϕ_s45.00000°,δ55.00000°,λ-27.00000°. Principal axes: T Plg8.0000°,Azm276.0000°; N Plg47.0000°,Azm177.0000°; P Plg42.0000°,Azm13.0000°
ISCJB Event type fe.

(135) Near coast of central Chile

ISC	**I**	**16 14 50 56.1–2.2**	**34.16S–.04**	**72.43W–.06**	**1–13**	**4.4b,3.8s**	**62**	**0-166**
IDC	I	16 14 50 56.0–.72	34.13S	72.44W	0	4.3,4.2		¶15940534
GUC	I	16 14 50 57.8–.38	34.19S	72.44W	33–2	4.3L,4.2		
ISCJB	I	16 14 50 58.0–1.4	34.15S–.03	72.55W–.05	15–9	4.2b,4.0s		
NEIC	I	16 14 50 59.8–2.1	34.09S	72.45W	23–14	4.7b,4.3L		

ISC Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=16.0km az=82.0.
GUC Error ellipse: s-maj=1.5km s-min=3.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=24.1.
NEIC Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=81.0. Felt [II] at Constitucion and Rancagua.

(135) Near coast of central Chile

ISC	**I**	**16 16 13 15.0–2.0**	**34.11S–.04**	**72.47W–.08**	**6–12**	**4.2b**	**54**	**0-166**
IDC	I	16 16 13 13.7–.95	34.21S	72.37W	0	4.2,4.0		¶16009117
GUC	I	16 16 13 14.3–.26	34.24S	72.55W	22–8	4.3L,4.0		
NEIC	I	16 16 13 18.8–3.2	34.12S	72.41W	33–22	4.3L,4.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=33.7km s-min=19.8km az=89.0.
GUC Error ellipse: s-maj=3.0km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=19.1km s-min=9.7km az=86.0. Felt [III] at Pichilemu and [II] at Curico, Paredones, Parral and Rancagua.

(162) South Island

WEL	**I**	**16 21 47 53.1–.09**	**43.64S**	**172.35E**	**11–0**	**4.0L**		
NEIC	I	16 21 47 53.2	43.63S	172.37E	12	4.1L		¶15931547

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(224) Hokkaido region

ISC	**I**	**17 04 07 02.4–.66**	**43.47N–.06**	**145.23E–.04**	**131–5**	**3.8b**	**66**	**0-84**
NIED	I	17 04 07 00	43.50N	145.20E	145	3.7W		¶16019228
ISCJB	I	17 04 07 01.6–.35	43.51N–.05	145.22E–.05	136–2	3.7b		
MOS	I	17 04 07 02.1–.99	43.60N	145.17E	141	4.1b		
IDC	I	17 04 07 03.8–1.6	43.56N	145.13E	140–10	4.0,3.8		
SKHL	I	17 04 07 03.7–.30	43.58N	145.27E	135–2	5.3s,4.7b		
JMA	I	17 04 07 03.1–.10	43.50N	145.22E	130–1	3.6,4.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ28.00000°,λ18.00000°. NP2:ϕ_s73.00000°,δ82.00000°,λ117.00000°. $M_0$3.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.8km az=157.4.
MOS Error ellipse: s-maj=14.6km s-min=12.7km az=92.0.
IDC Error ellipse: s-maj=24.5km s-min=12.7km az=170.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**I**	**17 07 13 51.2–1.1**	**36.54N–.05**	**141.08E–.08**	**50–9**	**4.1b,2.8s**	**60**	**0-147**
NIED	I	17 07 13 00	36.50N	141.00E	56	3.9W,2.8s		¶15931549
ISCJB	I	17 07 13 50.2–.53	36.51N–.03	141.07E–.06	59–4	4.0b,2.8s		
JMA	I	17 07 13 51.3–.10	36.52N	140.98E	58–1	4.2,2.8s		
NEIC	I	17 07 13 51.2–.79	36.60N	141.05E	50–7	4.3b,2.8s		
IDC	I	17 07 13 52.0–2.1	36.51N	140.99E	58–21	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ56.00000°,λ40.00000°. NP2:ϕ_s59.00000°,δ58.00000°,λ138.00000°. $M_0$8.65000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.9km az=20.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s181.00000°,δ60.00000°,λ37.00000°. NP2:ϕ_s70.00000°,δ59.00000°,λ144.00000°. Principal axes: T Plg46.0000°,Azm36.0000°; N Plg44.0000°,Azm214.0000°; P Plg1.0000°,Azm305.0000°
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=124.0. Recorded [3 JMA] in Ibaraki and [1 JMA] in Chiba, Fukushima, Gumma and Tochigi.
IDC Error ellipse: s-maj=18.8km s-min=11.7km az=78.0.

(568) Uganda

ISC	**I**	**17 08 22 27.2–.40**	**1.50N–.05**	**30.82E–.05**	**10**	**4.6b,4.1s**	**168**	**2-131**
ISCJB	I	17 08 22 25.7–.27	1.56N–.04	30.74E–.04	10	4.6b,4.1s		¶15931204
IDC	I	17 08 22 25.7–.63	1.58N	30.81E	0	4.4L,4.3		
MOS	I	17 08 22 26.1–1.1	1.56N	30.76E	13	4.6b,4.0s		
NEIC	I	17 08 22 27.6–.33	1.60N	30.77E	10	4.8b,4.0s		
BJI	I	17 08 22 30.8	2.07N	31.40E	14	5.2b,4.9s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=151.7.
IDC Error ellipse: s-maj=16.2km s-min=14.4km az=71.0.
MOS Error ellipse: s-maj=13.5km s-min=5.5km az=88.3.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.4km az=104.0. Felt at Beni. Also felt at Hoima, Mpigi and Wakiso, Uganda.

(135) Near coast of central Chile

ISC	**I**	**17 18 53 29.4–.62**	**34.69S–.04**	**71.83W–.07**	**46–4**	**4.6b,4.5s**	**89**	**1-176**
IDC	I	17 18 53 22.4–.69	34.75S	71.74W	0	5.1L,4.5		¶15954488
ISCJB	I	17 18 53 28.9–.86	34.78S–.04	71.84W–.10	59–6	4.7b,4.2s		
GUC	I	17 18 53 28.2–.43	34.70S	71.83W	38–5	4.8L,4.2s		
BJI	I	17 18 53 30.2	34.60S	71.70W	42	5.6s,5.5		
NEIC	I	17 18 53 30.0–.36	34.62S	71.79W	51	5.0b,5.5		

ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=22.0km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.7km az=3.6.
GUC Error ellipse: s-maj=3.1km s-min=3.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=8.2km az=71.0. Felt [IV] at Cauquenes, Chanco, Constitucion, Curico, Empedrado, Iloca, Linares, Molina, Pelluhue, Pichilemu, Rio Claro, Romeral, Santa Cruz and Talca; [III] at Graneros, Litueche, Lolol, Navidad, Paredones, Rancagua, Rengo, San Fernando and Santiago; [II] at Concepcion, San Antonio, San Bernardo and Tiltil. Also felt at Talagante and Valparaiso.

(274) Southern Sumatera

ISC	**I**	**17 19 20 56.9–.18**	**5.10S–.03**	**102.60E–.03**	**39–2**	**6.1b,5.9s**	**1727**	**1-178**
BJI	I	17 19 20 49.5	5.73S	102.74E	33	6.2,6.2s		¶15933576
MOS	I	17 19 20 54.9–.89	4.90S	102.86E	30	6.3b,5.8s		
ISCJB	I	17 19 20 56.5–.33	5.09S–.02	102.65E–.02	45–2	6.1b,5.9s		
NEIC	I	17 19 20 56.0–.00	5.07S	102.69E	30	6.1b,5.9s		
DJA	I	17 19 20 57.1–.50	5S–2.0	103E–1.0	32–5	6.5,6.4b		
NEIC	I	17 19 20 57.2–.11	5.03S	102.65E	36	6.1b,6.0W		
IDC	I	17 19 20 57.2–1.2	5.02S	102.71E	36–9	5.9,5.7		
GCMT	I	17 19 20 57.2–.10	5.37S	102.45E	35–0	6.0W,5.7		
KLM	I	17 19 20 59.5	5.05S	102.66E	65	6.9s,6.1b		
NEIC	I	17 19 21 09.0–.00	5.63S	102.49E	34	6.9s,6.1b		

ISC Event type fe.
MOS Error ellipse: s-maj=8.6km s-min=4.5km az=118.5.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=36.4.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ74.00000°,λ94.00000°. NP2:ϕ_s305.00000°,δ16.00000°,λ76.00000°. Principal axes: T 1.3300,Plg60.0000°,Azm56.0000°; N 0.1400,Plg4.0000°,Azm319.0000°; P -1.4600,Plg29.0000°,Azm227.0000°
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=222.0. Felt [IV] at Bengkulu, Bintuhan and Manna; [III] at Kapahiang and Liwa. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}6.34 $M_{\theta\theta}$-3.95 $M_{\phi\phi}$-2.39 $M_{r\theta}$3.49 $M_{\theta\phi}$3.55 $M_{\theta r}$-0.28 Best double couple: NP1:ϕ_s114.00000°,δ59.00000°,λ73.00000°. NP2:ϕ_s324.00000°,δ35.00000°,λ116.00000°. Principal axes: T 7.4800,Plg71.0000°,Azm345.0000°; N -0.0400,Plg14.0000°,Azm122.0000°; P -7.4400,Plg12.0000°,Azm216.0000° $M_0$7.50000×10^{17}
IDC Error ellipse: s-maj=11.7km s-min=7.1km az=49.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c283; s115,c375;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.84±.01 $M_{\theta\theta}$-0.54±.01; $M_{\phi\phi}$-0.30±.01; $M_{r\theta}$0.75±.01; $M_{\theta\phi}$0.43±.01; $M_{\theta r}$-0.50±.01; Best double couple: NP1: ϕ_s125.00000°,δ68.00000°,λ88.00000°. NP2:ϕ_s310.00000°,δ22.00000°,λ95.00000°. Principal axes: T 1.2330,Plg67.0000°,Azm31.0000°; N 0.0170,Plg2.0000°,Azm125.0000°; P -1.2500,Plg23.0000°,Azm216.0000° $M_0$1.24200×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ20.00000°,λ102.00000°. NP2:ϕ_s118.00000°,δ70.00000°,λ86.00000°. Principal axes: T 1.2000,Plg64.0000°,Azm21.0000°; N -0.1100,Plg4.0000°,Azm120.0000°; P -1.0900,Plg25.0000°,Azm212.0000°

(135) Near coast of central Chile

ISC	**I**	**17 23 29 51.0–.27**	**30.31S–.03**	**71.26W–.05**	**68–1**	**5.1b**	**625**	**0-176**
MOS	I	17 23 29 48.0–1.1	30.29S	71.28W	53	4.8b		¶15933577
GUC	I	17 23 29 49.7–.87	30.32S	71.51W	65–15	5.3L		
NEIC	I	17 23 29 49.0	30.32S	71.51W	65	5.1b		
GCMT	I	17 23 29 49.0–.30	30.51S	71.62W	90–5	5.0W		
ISCJB	I	17 23 29 49.6–.49	30.29S–.02	71.23W–.05	70–4	5.0b		
IDC	I	17 23 29 50.9–.33	30.31S	71.22W	70–2	4.7,4.6		
BJI	I	17 23 29 52.7	30.20S	71.20W	65	5.6s,5.4		

ISC Event type fe.
MOS Error ellipse: s-maj=19.8km s-min=11.9km az=86.4.
GUC Error ellipse: s-maj=2.6km s-min=21.6km az=-1.0.
NEIC Event type fe. Felt [V] at Andacollo, Coquimbo, La Higuera, La Serena, Monte Patria, Ovalle and Rio Hurtado; [IV] at Paiguano, Punitaqui and Vicuna; [III] at Combarbala; [II] at Canela, Copiapo, Illapel, Salamanca and Tierra Amarilla. Also felt at Santiago and Vina del Mar. After GUC.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s71,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.20±.17 $M_{\theta\theta}$-1.11±.17; $M_{\phi\phi}$2.32±.21; $M_{r\theta}$0.89±.08; $M_{\theta\phi}$0.47±.16; $M_{\theta r}$-3.71±.11; Best double couple: NP1:ϕ_s345.00000°,δ79.00000°,λ-106.00000°. NP2:ϕ_s223.00000°,δ19.00000°,λ-34.00000°. Principal axes: T 4.6680,Plg32.0000°,Azm89.0000°; N -0.7510,Plg16.0000°,Azm348.0000°; P -3.9070,Plg53.0000°,Azm236.0000° $M_0$4.28700×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=175.4.
IDC Error ellipse: s-maj=12.1km s-min=10.9km az=99.0.

(238) Ryukyu Islands

ISC	**I**	**18 04 11 16.8–2.0**	**26.16N–.05**	**128.37E–.06**	**14–12**	**4.1b,4.0s**	**47**	**0-107**
NIED	I	18 04 11 00	26.20N	128.40E	20	4.4W,4.0s		¶16016422
IDC	I	18 04 11 14.9–.77	26.15N	128.16E	0	4.2,4.0		
ISCJB	I	18 04 11 17.0–.84	26.16N–.04	128.44E–.05	30–5	4.0s,4.0b		
NEIC	I	18 04 11 17.5–1.6	26.16N	128.20E	16–9	4.4b,4.0b		
JMA	I	18 04 11 19.0–.30	26.24N	128.38E	27–4	3.8,4.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ17.00000°,λ82.00000°. NP2:ϕ_s46.00000°,δ73.00000°,λ92.00000°. $M_0$4.43000×10^{15}
IDC Error ellipse: s-maj=26.2km s-min=17.9km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.5km az=42.4.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=7.8km az=122.0. Recorded [1 JMA] on Okinawa.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.

(159) North Island

ISC	**I**	**18 08 45 47.4–.37**	**38.40S–.03**	**176.06E–.03**	**157–3**	**4.8b**	**369**	**0-165**
BJI	I	18 08 45 44.3	38.72S	176.54E	158	5.4b,5.0b		¶15934898
IDC	I	18 08 45 46.1–.34	38.33S	176.23E	150–4	4.7,4.3		

ISCJB	I	18 08 45 46.1–.17	38.27S–.02	176.09E–.04	157–1	4.9b,4.3	
WEL	I	18 08 45 47.0–.17	38.11S	176.18E	152–1	5.7L,4.3	
NEIC	I	18 08 45 47.1	38.12S	176.18E	150	4.9b,4.3	
GCMT	I	18 08 45 47.1–.50	38.24S	176.45E	150–4	5.0W,4.3	

ISC Event type fe.
IDC Error ellipse: s-maj=14.8km s-min=13.2km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=12.4.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from West Coast to Gisborne, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Hastings, Napier, Te Karaka and Wairoa. After WEL.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c21; s66,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.19±.24 $M_{\theta\theta}$3.37±.27; $M_{\phi\phi}$-1.18±.24; $M_{r\theta}$-2.15±.19; $M_{\theta\phi}$-0.44±.28; $M_{\phi r}$-2.59±.14; Best double couple: NP1:ϕ_s60.00000°,δ73.00000°,λ-123.00000°. NP2:ϕ_s305.00000°,δ37.00000°,λ-30.00000°. Principal axes: T 4.1440,Plg21.0000°,Azm174.0000°; N 0.6510,Plg31.0000°,Azm71.0000°; P -4.7960,Plg51.0000°,Azm292.0000° $M_0$4.47000×10^{16}

(353) Southern Iran

ISC	**I**	**18 11 26 02.3–.33**	**28.20N–.03**	**56.37E–.04**	**28**	**4.6b,4.1s**	**241**	**1-91**
DSN	I	18 11 25 57.1–.78	28.55N	56.81E	15	5.4L,4.3b		**¶15934903**
IDC	I	18 11 25 58.0–.55	28.15N	56.33E	0	4.4,4.3		
NEIC	I	18 11 25 59.7–.33	28.20N	56.28E	10	4.7,4.7b		
BJI	I	18 11 25 59.0	28.27N	55.75E	40	5.1b,4.8s		
THR	I	18 11 26 01.3–.99	28.20N	56.42E	35–7	4.6L,4.8s		
ISCJB	I	18 11 26 01.2–.18	28.27N–.02	56.35E–.03	28	4.5b,4.3s		
CSEM	I	18 11 26 03.0–.13	28.22N	56.36E	30	4.7b,4.3s		
OMAN	I	18 11 26 04.6–99	28.20N	55.79E	52	4.7b,4.3s		
TEH	I	18 11 26 05.1	28.20N	56.26E	24	4.6L,4.3s		

ISC Event type fe.
DSN Error ellipse: s-maj=42.1km s-min=7.0km az=104.0.
IDC Error ellipse: s-maj=13.2km s-min=11.0km az=6.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.9km az=174.0. Felt at Bandar 'Abbas. Also felt at Doha, Qatar, at Damman, Saudi Arabia and at Al 'Ayn and Dubai, United Arab Emirates.
THR Error ellipse: s-maj=3.2km s-min=6.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=150.8.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=75.0.
OMAN Error ellipse: s-maj=66.3km s-min=3.5km az=285.0.

(706) Northern Sumatera

ISC	**I**	**18 11 33 45.0–.32**	**2.58N–.03**	**96.38E–.03**	**24–1**	**5.9s,5.7b**	**1363**	**1-174**
BJI	I	18 11 33 38.6	2.32N	96.15E	18	6.2b,6.2s		**¶15934904**
IDC	I	18 11 33 39.8–.36	2.61N	96.46E	0	5.5,5.5s		
ISCJB	I	18 11 33 41.4–.59	2.56N–.02	96.39E–.02	11–3	5.8s,5.7b		
DJA	I	18 11 33 44.6–.30	3N–3.0	96E–4.0	10	6.1b,5.8		
GCMT	I	18 11 33 44.4–.10	2.38N	96.17E	15	6.0W,5.8		
MOS	I	18 11 33 44.0–1.5	2.69N	96.42E	27	5.9b,5.6s		
KLM	I	18 11 33 45.2	2.71N	96.32E	19	6.5s,5.9b		
NEIC	I	18 11 33 45.1–.18	2.63N	96.40E	21	6.0,5.9W		
NEIC	I	18 11 33 45.0–.00	2.59N	96.44E	18	6.0,5.9W		

ISC Event type fe.
IDC Error ellipse: s-maj=12.3km s-min=9.6km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=24.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c234; s105,c239;Duration: 2^{s}1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.30±.01 $M_{\theta\theta}$-0.18±.00; $M_{\phi\phi}$-0.12±.01; $M_{r\theta}$0.71±.01; $M_{\theta\phi}$0.14±.00; $M_{\phi r}$-0.66±.01; Best double couple: NP1:ϕ_s133.00000°,δ81.00000°,λ91.00000°. NP2:ϕ_s306.00000°,δ9.00000°,λ83.00000°. Principal axes: T 1.0220,Plg54.0000°,Azm44.0000°; N -0.0060,Plg1.0000°,Azm312.0000°; P -1.0160,Plg36.0000°,Azm222.0000° $M_0$1.01900×10^{18}
MOS Error ellipse: s-maj=7.2km s-min=4.0km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=23.0. Felt [IV] at Sinabang. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}4.18 $M_{\theta\theta}$-1.10 $M_{\phi\phi}$-3.07 $M_{r\theta}$4.26 $M_{\theta\phi}$0.34 $M_{\phi r}$-2.88 Best double couple: NP1:ϕ_s134.00000°,δ73.00000°,λ79.00000°. NP2:ϕ_s349.00000°,δ20.00000°,λ123.00000°. Principal axes: T 7.1100,Plg60.0000°,Azm28.0000°; N -1.9000,Plg11.0000°,Azm137.0000°; P -5.2000,Plg27.0000°,Azm233.0000° $M_0$6.40000×10^{17}
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}2.05 $M_{\theta\theta}$-0.82 $M_{\phi\phi}$-1.23 $M_{r\theta}$6.28 $M_{\theta\phi}$1.30 $M_{\phi r}$-5.87 Best double couple: NP1:ϕ_s133.00000°,δ82.00000°,λ88.00000°. NP2:ϕ_s327.00000°,δ7.00000°,λ104.00000°. Principal axes: T 8.7400,Plg52.0000°,Azm41.0000°; N 0.2600,Plg2.0000°,Azm133.0000°; P -9.0000,Plg38.0000°,Azm225.0000° $M_0$8.90000×10^{17}

(14) Kenai Peninsula

ISC	**I**	**18 15 17 07.9–1.3**	**60.54N–.03**	**151.02W–.04**	**29–10**	**4.2b**	**57**	**0-65**
ISCJB	I	18 15 17 07.0–.33	60.55N–.02	151.07W–.05	24–4	4.1b		**¶16009130**
NEIC	I	18 15 17 07.4	60.57N	151.06W	10	3.4L		
IDC	I	18 15 17 10.2–1.3	60.44N	150.72W	59–21	3.8,3.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=21.1.
NEIC Event type fe. Felt [II] at Kenai and Soldotna. Also felt at Kasilof and Sterling. After AEIC.
IDC Error ellipse: s-maj=27.2km s-min=9.0km az=120.0.

(45) California-Baja California border region

ECX	**I**	**18 20 07 49.4–.60**	**32.18N**	**115.24W**	**7**	**3.1L,2.9**		
NEIC	I	18 20 07 49.4	32.18N	115.24W	7	3.1L,3.0L		**¶601707000**

ECX Error ellipse: s-maj=1.2km s-min=2.4km az=-1.0.
NEIC Event type fe. Felt at Yuma, Arizona. After ECX.

(354) Southwestern Pakistan

ISC	**I**	**18 20 23 25.6–.23**	**28.68N–.02**	**64.00E–.02**	**80–1**	**6.8b**	**3619**	**3-167**
IDC	I	18 20 23 16.0–.31	28.95N	63.97E	0	6.7,6.7s		**¶15938045**
THR	I	18 20 23 21.3–.59	28.04N	63.85E	44–13	6.7L,6.7s		
ISCJB	I	18 20 23 22.2–.24	28.70N–.02	63.98E–.01	72–2	6.6b,6.7s		
GCMT	I	18 20 23 23.5–.10	28.61N	63.90E	52–0	7.2W,6.7s		
NEIC	I	18 20 23 23.5–.14	28.78N	63.95E	68	7.3,7.2W		
DSN	I	18 20 23 23.2–.66	28.77N	64.10E	50	7.2s,6.9b		
MOS	I	18 20 23 23.7–1.3	28.84N	63.89E	78	7.0b,6.8s		
PDA	I	18 20 23 23.2	28.73N	63.93E	68	6.7b,6.8s		
BJI	I	18 20 23 24.0	28.83N	64.09E	72	7.3b,7.1s		
NEIC	I	18 20 23 24.0–.00	28.68N	63.84E	60	7.3b,7.1s		
CSEM	I	18 20 23 24.9–.07	28.78N	63.98E	80	7.3W,7.1s		
SFS	I	18 20 23 25.0	28.81N	63.97E	80	7.2L,7.1s		
OMAN	I	18 20 23 26.9–.00	28.72N	63.87E	84	7.2L,7.1s		
TEH	I	18 20 23 28.0	28.87N	63.97E	101	7.2L,7.1s		

ISC Event type de.
IDC Error ellipse: s-maj=6.9km s-min=5.8km az=168.0.
THR Error ellipse: s-maj=12.4km s-min=10.6km az=-1.0.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.3km az=21.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=150s. Moment Tensor Solution. s142,c377; s138,c656;Duration: 10^{s}1 Moment tensor: Scale 10^{20}Nm; M_{rr}-0.64±.00 $M_{\theta\theta}$0.54±.00; $M_{\phi\phi}$0.10±.00; $M_{r\theta}$0.29±.01; $M_{\theta\phi}$0.41±.00; $M_{\phi r}$0.42±.01; Best double couple: NP1:ϕ_s224.00000°,δ63.00000°,λ-107.00000°. NP2:ϕ_s77.00000°,δ31.00000°,λ-60.00000°. Principal axes: T 0.9240,Plg17.0000°,Azm326.0000°; N -0.0880,Plg15.0000°,Azm231.0000°; P -0.8360,Plg67.0000°,Azm102.0000° $M_0$0.88000×10^{20}
NEIC Event type de. Error ellipse: s-maj=4.9km s-min=3.1km az=14.0. One person killed at Garhi Khairo and two people died from heart attacks, one each at Jacobabad and Quetta. Several people injured and at least 200 buildings damaged [V] in Balochistan, expecially in the Dalbandin area. Damage also occurred in Sindh and in southern Punjab. Felt [IV] at Bahawalpur, Karachi and Quetta; [III] at Hyderabad, Islamabad, Khairpur and Lahore. Slight damage occurred in parts of western India. Felt [IV] at Ghaziabad, Gurgaon, New Delhi and Pilani; [III] at Amritsar, Chandigarh, Delhi, Jaipur and Noida. Felt [IV] at Chenaran and [III] at Bandar 'Abbas and Zahedan, Iran. Also felt [IV] at Ra's al Khaymah and [III] at Abu Dhabi, Ajman, Dubai and Sharjah, United Arab Emirates. Felt [III] at Kabul and Kandahar, Afghanistan, at Manama, Bahrain and at Muscat, Oman. Felt [II] at Doha, Qatar and at Riyadh, Saudi Arabia. Felt in 11 countries of southern Asia from Ashgabat, Turkmenistan and Samarqand, Uzbekistan to Bangalore, India and from Haridwar, India to Buraydah, Saudi Arabia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s84 Moment tensor: Scale 10^{19}Nm; M_{rr}-3.17 $M_{\theta\theta}$2.53 $M_{\phi\phi}$0.64 $M_{r\theta}$1.09 $M_{\theta\phi}$2.63 $M_{\phi r}$3.36 Best double couple: NP1:ϕ_s82.00000°,δ33.00000°,λ-42.00000°. NP2:ϕ_s209.00000°,δ69.00000°,λ-116.00000°. Principal axes: T 5.3900,Plg20.0000°,Azm318.0000°; N -0.2400,Plg24.0000°,Azm219.0000°; P -5.1500,Plg58.0000°,Azm84.0000° $M_0$5.30000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ14.00000°,λ-45.00000°. NP2:ϕ_s225.00000°,δ80.00000°,λ-100.00000°. Principal axes: T Plg34.0000°,Azm324.0000°; N Plg0.0000°,Azm0.0000°; P Plg54.0000°,Azm123.0000°
DSN Error ellipse: s-maj=11.9km s-min=7.1km az=134.0.
MOS Error ellipse: s-maj=4.7km s-min=3.0km az=115.3. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s215.00000°,δ71.00000°,λ-100.00000°. NP2:ϕ_s64.00000°,δ21.00000°,λ-63.00000°. Principal axes: T Plg25.0000°,Azm313.0000°; N Plg9.0000°,Azm219.0000°; P Plg63.0000°,Azm110.0000°
NEIC Event type se. Moment Tensor Solution. s135 Moment tensor: Scale 10^{19}Nm; M_{rr}-6.14 $M_{\theta\theta}$5.26 $M_{\phi\phi}$0.88 $M_{r\theta}$2.60 $M_{\theta\phi}$3.95 $M_{\phi r}$4.55 Best double couple: NP1:ϕ_s221.00000°,δ65.00000°,λ-109.00000°. NP2:ϕ_s80.00000°,δ32.00000°,λ-54.00000°. Principal axes: T 9.0100,Plg17.0000°,Azm325.0000°; N -0.6000,Plg17.0000°,Azm229.0000°; P -8.4100,Plg64.0000°,Azm96.0000° $M_0$8.70000×10^{19}
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=10.0.
SFS Event type ke.
OMAN Error ellipse: s-maj=1.4km s-min=1.2km az=350.0.

(123) Northern Chile

ISC	**I**	**18 21 30 47.1–.27**	**19.13S–.03**	**69.35W–.05**	**117–2**	**5.2b**	**977**	**1-172**
ISCJB	I	18 21 30 43.5–.35	18.93S–.03	69.26W–.03	97–4	5.2b		**¶15938048**
SCB	I	18 21 30 46.7–1.3	18.89S	69.83W	80	4.4L		
NEIC	I	18 21 30 47.0	19.20S	69.40W	103	5.3b		
IDC	I	18 21 30 47.5–.34	19.00S	69.25W	119–2	5.0,4.8		
GUC	I	18 21 30 47.0–.34	19.20S	69.40W	103–2	5.8L,4.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=40.1.
SCB Event type ke. Error ellipse: s-maj=90.4km s-min=30.4km az=119.0.
NEIC Event type fe. Felt [V] at Camina and Huara; [IV] at Alto Hospicio, Arica and Cerro Colorado; [III] at Codpa, Iquique and Pisagua; [II] at Cuya, Pica and Putre. Felt [III] at Arequipa and Tacna, Peru. Also felt at Moquegua. After GUC.
IDC Error ellipse: s-maj=10.2km s-min=8.6km az=39.0.
GUC Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.

(233) Near south coast of western Honshu

JMA	**I**	**19 00 48 09.2**	**34.01N**	**133.78E**	**44–1**	**3.6**		**¶600520015**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s237.00000°,δ88.00000°,λ-2.00000°. NP2:ϕ_s327.00000°,δ88.00000°,λ-178.00000°. Principal axes: T Plg0.0000°,Azm282.0000°; N Plg87.0000°,Azm12.0000°; P Plg3.0000°,Azm192.0000°

(716) Kyrgyzstan

ISC	**I**	**19 03 47 06.1–.24**	**39.25N–.03**	**72.15E–.02**	**33**	**4.9b,4.3s**	**694**	**1-152**
IDC	I	19 03 47 00.3–.38	39.18N	72.32E	0	4.8,4.7		**¶15938052**
BJI	I	19 03 47 00.0	39.30N	72.00E	9	5.2L,5.1b		
KRNET	I	19 03 47 03.5–.10	39.04N	72.03E		5.7b,5.1b		
ISCJB	I	19 03 47 04.3–.12	39.17N–.02	72.19E–.02	33	4.9b,4.2s		
SOME	I	19 03 47 04.8	39.77N	72.32E	0	4.4s,4.2s		
MOS	I	19 03 47 04.8–1.1	39.48N	72.29E	33	5.0b,4.2s		
NNC	I	19 03 47 05.5–3.1	39.47N	72.22E	0	5.6b,5.4		
NEIC	I	19 03 47 06.5–.64	39.32N	72.25E	40–5	5.0b,5.4		

ISC Event type fe.
IDC Error ellipse: s-maj=8.1km s-min=7.4km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=158.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=112.0.
NNC Event type se. Error ellipse: s-maj=26.9km s-min=16.7km az=20.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=175.0. Felt at Andijon, Uzbekistan.

(664) Southeastern China

ISC	**I**	**19 04 07 44.3–.31**	**30.65N–.03**	**117.14E–.03**	**10**	**4.7b,3.8s**	**220**	**2-146**
ISCJB	I	19 04 07 42.2–.17	30.64N–.02	117.12E–.02	10	4.6b,3.8s		**¶15938055**
IDC	I	19 04 07 43.1–.55	30.72N	116.96E	0	4.4,4.4b		
BJI	I	19 04 07 43.3	30.66N	117.10E	6	4.9b,4.8L		
NEIC	I	19 04 07 43.6	30.65N	117.10E	10	4.9b,4.8L		
MOS	I	19 04 07 45.9–.79	30.71N	117.00E	33	4.6b,4.8L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.9km az=162.5.
IDC Error ellipse: s-maj=13.6km s-min=12.7km az=20.0.
NEIC Event type fe. Felt [III] at Hefei. Also felt at Anqing, Chizhou, Liyang, Ma'anshan, Nanjing and Wuhu. After BJI.
MOS Error ellipse: s-maj=12.0km s-min=6.3km az=115.4.

(162) South Island

WEL	**I**	**19 04 21 43.9–.11**	**43.55S**	**172.61E**	**6–0**	**3.5L**		**¶15938380**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(7) Andreanof Islands

ISC	**I**	**19 04 59 53.0–.61**	**51.28N–.06**	**178.26W–.03**	**42–4**	**5.0b,4.6s**	**946**	**1-147**
MOS	I	19 04 59 50.8–1.1	51.34N	178.22W	37	5.1b,4.5s		**¶15938056**
BJI	I	19 04 59 50.0	51.64N	178.26W	33	5.3b,5.1b		
ISCJB	I	19 04 59 52.5–.37	51.27N–.04	178.18W–.02	54–2	5.0b,4.6s		
IDC	I	19 04 59 53.0–1.8	51.37N	178.24W	42–15	4.7,4.7L		
NEIC	I	19 04 59 54.3–.31	51.38N	178.29W	51–2	5.0b,4.8L		
GCMT	I	19 04 59 54.3–.40	51.12N	178.24W	33–1	5.3W,4.8L		

ISC Event type fe.
MOS Error ellipse: s-maj=11.1km s-min=5.7km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.0km az=2.4.
IDC Error ellipse: s-maj=14.3km s-min=8.5km az=162.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=1.9km az=180.0. Felt on Adak.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s64,c95; Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.82±.07 $M_{\theta\theta}$-0.62±.04; $M_{\phi\phi}$-0.20±.04; $M_{r\theta}$0.69±.06; $M_{\theta\phi}$-0.29±.03; $M_{\phi r}$0.19±.06; Best double couple: NP1:ϕ_s71.00000°,δ66.00000°,λ96.00000°. NP2:ϕ_s236.00000°,δ25.00000°,λ77.00000°. Principal axes: T 1.1080,Plg68.0000°,Azm352.0000°; N -0.0750,Plg5.0000°,Azm248.0000°; P -1.0330,Plg21.0000°,Azm156.0000° $M_0$1.07100×10^{17}

(162) South Island

WEL	**I**	**19 05 13 08.1–.05**	**43.49S**	**172.17E**	**5**	**2.8L**		**¶600662121**

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.

(134) Off coast of central Chile

ISC	**I**	**19 05 20 05.2–.64**	**33.99S–.03**	**72.29W–.05**	**27–4**	**5.2b,4.8s**	**706**	**0-179**
GUC	I	19 05 20 00.9–.54	33.96S	72.45W	13–10	5.4L,4.8s		**¶15938057**
NEIC	I	19 05 20 00.0	33.96S	72.45W	13	5.4L,5.3b		
ISCJB	I	19 05 20 02.1–.95	33.99S–.03	72.51W–.03	18–7	5.1b,4.7s		
MOS	I	19 05 20 05.2–1.1	33.97S	71.98W	33	5.1b,4.7s		
IDC	I	19 05 20 05.5–4.5	33.96S	72.07W	28–30	4.7,4.7		
BJI	I	19 05 20 05.4	33.84S	71.16W	32	5.5s,5.4b		

ISC Event type fe.
GUC Error ellipse: s-maj=1.9km s-min=10.1km az=-1.0.
NEIC Event type fe. Felt [IV] at Navidad, Paredones and Pichilemu; [III] at Cartagena, Curico, El Tabo, La Estrella, Las Cabras, Linares, Marchihue, Molina, Mostazal, Rancagua, Rio Claro, San Antonio, San Fernando, Santa Cruz, Santo Domingo and Talca; [II] at Chanco, Parral, Valparaiso and Vina del Mar. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=42.4.
MOS Error ellipse: s-maj=20.4km s-min=11.0km az=82.8.
IDC Error ellipse: s-maj=19.3km s-min=12.4km az=87.0.

(159) North Island

ISC	**I**	**19 06 41 58.2–.83**	**40.09S–.02**	**176.47E–.02**	**31–5**		**209**	**0-153**
NEIC	I	19 06 41 58.8	40.14S	176.58E	33	4.3L		**¶15938381**
WEL	I	19 06 41 59.1–.10	40.09S	176.47E	31–1	4.2L		
IDC	I	19 06 42 02.5–1.2	38.76S	175.36E	0	4.2,4.1L		

ISC Event type fe.
NEIC Event type fe. Felt in Hawke's Bay. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt from Bay of Plenty to Wairarapa, and from Whanganui to Hawke''s Bay. maximum reported intensity MM 5.
IDC Error ellipse: s-maj=45.1km s-min=13.2km az=165.0.

(367) Turkey-Georgia-Armenia border region

ISC	**I**	**19 09 17 49.5–.36**	**41.96N–.01**	**42.66E–.01**	**10–2**	**5.3b,4.8s**	**1810**	**0-161**
BJI	I	19 09 17 45.1	42.05N	42.10E	10	5.5b,5.4s		**¶15938382**
TIF	I	19 09 17 47.8	41.92N	42.71E	11–0	5.5b,5.4s		
IDC	I	19 09 17 47.2–.32	41.92N	42.64E	0	4.9,4.9		
ISCJB	I	19 09 17 48.3–.29	42.033N–.01	42.608E–.01	10–1	5.2b,4.8s		
DDA	I	19 09 17 48.7	41.88N	42.70E	28	5.3L,4.8s		
ISK	I	19 09 17 49.1	41.93N	42.62E	8	5.3L,4.8s		

NEIC I 19 09 17 49.8–.14 41.96N 42.66E 10 5.3b,5.2W
MOS I 19 09 17 49.7–1.1 41.94N 42.59E 24 5.4b,4.6s
GCMT I 19 09 17 49.8–.20 42.01N 42.65E 19–0 5.3W,4.6s
CSEM I 19 09 17 49.8–.06 41.97N 42.64E 10 5.3W,5.2s
AZER I 19 09 17 49.8–1.0 42.06N 42.68E 12–44 5.3W,5.2s
TEH I 19 09 17 51.0 41.98N 42.70E 15 5.0L,5.2s
NNC I 19 09 17 54.8–3.4 42.44N 43.32E 0 5.2b,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=6.6km s-min=5.6km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.2km az=177.8.
DDA Event type ke.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=160.0. Felt [II] at Tbilisi. Also felt at Batumi, Chokhatauri, Jinvali, Kutaisi, Mestia and Sukhumi. Felt at Gyumri, Armenia and at Ardahan, Artvin and Trabzon, Turkey. Moment Tensor Solution. s6 Moment tensor: Scale 10^{16}Nm; M_{rr}4.46 $M_{\theta\theta}$-8.16 $M_{\phi\phi}$3.70 $M_{r\theta}$-1.61 $M_{\theta\phi}$-0.99 $M_{\phi r}$1.49 Best double couple: NP1: ϕ_s295.00000°,δ62.00000°,λ133.00000°. NP2:ϕ_s52.00000°,δ50.00000°,λ38.00000°. Principal axes: T 5.8700,Plg52.0000°,Azm258.0000°; N 2.5500,Plg37.0000°,Azm91.0000° ; P -8.4200,Plg7.0000°,Azm356.0000° $M_0$7.50000×10^{16}
MOS Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=127.0. Felt (III-IV) at Sochi;(II) at Tbilisi. Moment Tensor Solution.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c89; s106,c199; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.03 $M_{\theta\theta}$-1.18±.02; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.40±.04; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$0.40±.04; Best double couple: NP1:ϕ_s292.00000°,δ62.00000° ,λ123.00000°. NP2:ϕ_s58.00000°,δ42.00000°,λ44.00000°. Principal axes: T 1.1110,Plg59.0000°,Azm250.0000°; N 0.1530,Plg29.0000°,Azm95.0000° ; P -1.2590,Plg11.0000°,Azm359.0000° $M_0$1.18500×10^{17}
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=173.0.
AZER Error ellipse: s-maj=128.7km s-min=4.6km az=291.0.
NNC Event type se. Error ellipse: s-maj=53.0km s-min=31.5km az=101.0.

(141) Cordoba Province

ISC	**I**	**19 10 52 52.0–.81**	**32.21S–.05**	**64.62W–.05**	**35**	**3.9b**	**40**	**1-151**
IDC	I	19 10 52 47.6–1.1	32.15S	64.60W	0	3.8,3.8L		**¶16151840**
NEIC	I	19 10 52 49.2–3.2	32.14S	64.59W	12–22	3.6,3.8L		
SJA	I	19 10 52 50.0–1.2	32.15S	64.71W	23–6	3.9,3.9L		
ISCJB	I	19 10 52 51.1–.50	32.21S–.04	64.60W–.05	33	3.8b,3.9L		

ISC Event type fe.
NEIC Event type fe. Felt [III] in the Santa Rosa de Calamuchita area.
ISCJB Event type fe.

(134) Off coast of central Chile

ISC	**I**	**19 12 47 12.1–2.5**	**33.95S–.05**	**72.38W–.08**	**5–15**	**4.5b,4.0s**	**55**	**1-172**
ISCJB	I	19 12 47 09.8–1.2	33.92S–.04	72.56W–.04	3–8	4.5b,4.0s		**¶15954494**
GUC	I	19 12 47 10.8–.43	33.95S	72.49W	21–2	4.4L,4.0s		
IDC	I	19 12 47 12.0–.94	33.93S	71.99W	0	4.2,4.2L		
NEIC	I	19 12 47 17.7–.46	33.82S	72.10W	35	4.5b,4.4L		
BJI	I	19 12 47 18.5	34.09S	72.89W	42	5.1b,4.4L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.3km az=152.1.
GUC Error ellipse: s-maj=1.3km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=35.4km s-min=21.3km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=8.1km az=81.0. Felt [II] at Rancagua. Also felt at San Antonio, Valparaiso and Vina del Mar.

(135) Near coast of central Chile

ISC	**I**	**19 15 07 32.6–1.3**	**38.41S–.04**	**73.5W–.10**	**28–10**	**3.9b**	**18**	**0-145**
IDC	I	19 15 07 28.0–2.1	38.49S	73.63W	0	4.6L,4.1		**¶16151859**
NEIC	I	19 15 07 29.3–1.6	38.49S	73.71W	10	4.2L,4.1		
GUC	I	19 15 07 30.4–.41	38.37S	73.62W	13–4	4.2L,4.1		

ISC Event type fe.
IDC Error ellipse: s-maj=53.8km s-min=16.2km az=57.0.
NEIC Event type fe. Error ellipse: s-maj=43.0km s-min=16.0km az=70.0. Felt [III] at Canete and Tirua.
GUC Error ellipse: s-maj=0.8km s-min=6.3km az=-1.0.

(162) South Island

ISC	**I**	**19 17 03 20.0–.74**	**43.60S–.03**	**172.64E–.03**	**14–4**	**4.4b,4.0s**	**174**	**0-153**
ISCJB	I	19 17 03 18.1–.45	43.70S–.03	172.76E–.04	19–3	4.4b,3.9s		**¶15942565**
NEIC	I	19 17 03 20.6	43.61S	172.52E	0	5.1L,3.9s		
IDC	I	19 17 03 20.1–1.1	43.35S	172.44E	0	4.6,4.5		
WEL	I	19 17 03 20.5–.09	43.61S	172.54E	9–0	5.1L,4.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.0km az=142.9.
NEIC Event type fe. Felt in Canterbury. After WEL.
IDC Error ellipse: s-maj=35.1km s-min=12.1km az=156.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 7.

(162) South Island

WEL	**I**	**19 19 06 54.2–.08**	**43.60S**	**172.41E**	**14–1**	**4.0L**		
NEIC	I	19 19 06 54.0	43.59S	172.41E	14	4.0L		**¶15942570**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

ISC	**I**	**19 19 27 34.9–.86**	**35.98N–.05**	**140.14E–.05**	**66–7**	**3.6b**	**36**	**0-92**
NIED	I	19 19 27 00	36.10N	140.10E	68	3.7W		**¶17190576**
ISCJB	I	19 19 27 33.9–.45	35.98N–.03	140.16E–.05	74–4	3.6b		
JMA	I	19 19 27 35.5–.10	36.02N	140.09E	63–1	3.5		
IDC	I	19 19 27 35.1–1.4	35.94N	140.18E	72–13	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ28.00000°,λ109.00000°. NP2:ϕ_s7.00000°,δ64.00000°,λ80.00000°. $M_0$3.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.7km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ62.00000°,λ83.00000°. NP2: ϕ_s196.00000°,δ28.00000°,λ102.00000°. Principal axes: T Plg72.0000°,Azm257.0000° ; N Plg6.0000°,Azm5.0000°; P Plg17.0000°,Azm97.0000°
IDC Error ellipse: s-maj=17.0km s-min=7.8km az=67.0.

(134) Off coast of central Chile

ISC	**I**	**19 21 22 33.4–.65**	**33.92S–.04**	**72.22W–.06**	**30–4**	**4.9b,4.1s**	**227**	**1-176**
IDC	I	19 21 22 28.5–.47	33.95S	72.21W	0	4.7,4.6b		**¶15940547**
ISCJB	I	19 21 22 30.5–1.3	33.97S–.04	72.40W–.04	22–9	4.8b,4.1s		
GUC	I	19 21 22 30.4–.38	33.90S	72.36W	25–6	4.6L,4.1s		
NEIC	I	19 21 22 30.0	33.90S	72.36W	25	5.0b,4.6L		
BJI	I	19 21 22 32.3	33.57S	71.57W	27	5.3,5.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=13.9km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.1km az=161.4.
GUC Error ellipse: s-maj=1.5km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt [III] at Paredones and [II] at Lolol, Rancagua, Rengo, San Fernando and Santa Cruz. Also felt at Valparaiso and Vina del Mar. Felt at Mendoza, Argentina. After GUC.

(162) South Island

WEL	**I**	**19 22 10 06.9–.08**	**43.54S**	**172.64E**	**8–0**	**3.9L**		
								¶15942575

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(162) South Island

WEL	**I**	**19 23 36 43.2–.08**	**43.60S**	**172.53E**	**9–0**	**3.9L**		
								¶15942579

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt from Hawke''s Bay to Canterbury, maximum reported intensity MM 5.

(136) Central Chile

ISC	**I**	**20 01 44 46.2–.60**	**37.08S–.07**	**72.57W–.07**	**69**	**4.2b**	**44**	**0-169**
IDC	I	20 01 44 37.4–.88	37.27S	72.35W	0	4.2,4.1		**¶16020102**
ISCJB	I	20 01 44 44.5–.51	37.07S–.04	72.53W–.08	69	4.1b,4.1		
NEIC	I	20 01 44 45.0	37.11S	72.57W	63	4.1b,4.1		
GUC	I	20 01 44 45.2–.35	37.11S	72.57W	63–5	4.2L,4.1		

ISC Event type fe.
IDC Error ellipse: s-maj=30.9km s-min=17.8km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.7km az=15.3.
NEIC Event type fe. Felt [V] at Los Angeles; [IV] at Curanilahue, Mulchen, Nacimiento, Negrete and Santa Barbara; [III] at Angol, Chiguayante, Chillan, Cobquecura, Collipulli, Concepcion, Curacautin, Ercilla, La Laja, Lebu, Penco and San Rosendo; [II] at Renaico and Tolten. After GUC.
GUC Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.

(366) Turkey

ISC	**I**	**20 02 09 37.4–.71**	**40.73N–.02**	**29.77E–.01**	**12–4**	**4.0b,2.9s**	**528**	**0-75**
THE	I	20 02 09 26.0	41.14N	30.70E	0–4	4.2L,2.9s		**¶15964349**
MOS	I	20 02 09 35.6–1.2	40.73N	29.83E	13	4.3b,2.9s		
IDC	I	20 02 09 35.5–.64	40.71N	29.77E	0	4.0,3.9L		
DDA	I	20 02 09 36.4	40.73N	29.76E	24	4.4L,3.9L		
ISK	I	20 02 09 37.0	40.71N	29.76E	10	4.1L,3.9L		
NEIC	I	20 02 09 37.0	40.71N	29.76E	12	4.3L,4.1b		
CSEM	I	20 02 09 37.3–.06	40.72N	29.78E	10	4.0b,4.1b		
ISCJB	I	20 02 09 37.1–.24	40.76N–.01	29.78E–.01	20–2	4.0b,2.9s		

ISC Event type fe.
THE Event type ke.
DDA Event type ke.
NEIC Event type fe. Felt at Golcuk. After ISK.
CSEM Event type ke.
ISCJB Event type fe.

(61) Chiapas

ISC	**I**	**20 10 01 54.5–.45**	**16.70N–.04**	**93.74W–.04**	**158–3**	**4.8b**	**687**	**1-145**
IDC	I	20 10 01 52.8–1.3	16.90N	93.34W	131–12	4.6,4.3		**¶601990549**
NEIC	I	20 10 01 54.9–.38	16.70N	93.60W	154–3	5.1,5.0b		
GCMT	I	20 10 01 54.9–.40	16.90N	93.72W	155–2	5.0W,5.0b		
MOS	I	20 10 01 55.7–1.3	16.96N	93.38W	173	4.6b,5.0b		
ISCJB	I	20 10 01 56.6–.36	16.86N–.03	93.45W–.03	188–3	4.8b,5.0b		
MEX	I	20 10 01 57.1–.57	16.68N	93.82W	129–6	5.1,5.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=15.8km s-min=7.6km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.9km az=214.0. Felt at Tlalixtac and Tuxtla Gutierrez.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c37; s85,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43±.13 $M_{\theta\theta}$-1.91±.14; $M_{\phi\phi}$2.34±.14; $M_{r\theta}$2.81±.11; $M_{\theta\phi}$-0.93±.17; $M_{\phi r}$-2.99±.10; Best double couple: NP1:ϕ_s312.00000°,δ86.00000° ,λ-118.00000°. NP2:ϕ_s215.00000°,δ28.00000°,λ-8.00000°. Principal axes: T 5.0650,Plg35.0000°,Azm66.0000°; N -0.7610,Plg28.0000°,Azm314.0000° ; P -4.3000,Plg42.0000°,Azm196.0000° $M_0$4.68200×10^{16}
MOS Error ellipse: s-maj=15.9km s-min=8.9km az=111.3.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=2.8km az=139.3.
MEX Error ellipse: s-maj=3.4km s-min=3.2km az=-1.0.

(259) Mindanao

MAN	**I**	**20 10 19 25**	**8.53N**	**124.64E**	**18**	**3.8b,2.5L**		
								¶601668452

MAN Event type fe. INTENSITY II - MALASAG CAGAYAN DE ORO; INTENSITY I - CAGAYAN DE ORO CITY.

(124) Chile-Bolivia border region

ISC	**I**	**20 11 02 53.4–.54**	**19.68S–.04**	**69.18W–.06**	**106–5**	**4.2b**	**58**	**0-152**
ISCJB	I	20 11 02 52.0–.33	19.64S–.04	69.08W–.06	111–4	4.3b		**¶16151932**
GUC	I	20 11 02 53.7–.39	19.68S	69.23W	102–3	4.7L		
IDC	I	20 11 02 53.6–.55	19.64S	68.95W	106–5	4.3,4.1		
NEIC	I	20 11 02 54.6–.66	19.61S	68.90W	114–6	5.2b,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.2km az=166.5.
GUC Error ellipse: s-maj=1.0km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=8.7km az=84.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=8.6km az=93.0. Felt [II] at Camina and Mamina.

(238) Ryukyu Islands

ISC	**I**	**20 11 36 41.6–.29**	**29.67N–.03**	**129.39E–.03**	**158–2**	**5.2b**	**1060**	**0-173**
NIED	I	20 11 36 00	29.60N	129.60E	160	5.2W		**¶15947657**
BJI	I	20 11 36 37.2	29.41N	129.68E	158	5.3b,5.2b		
ISCJB	I	20 11 36 39.8–.17	29.66N–.02	129.33E–.02	150–1	5.1b,5.2b		
MOS	I	20 11 36 39.7–1.1	29.67N	129.28E	151	5.3b,5.2b		
JMA	I	20 11 36 41.0–.10	29.55N	129.58E	150–2	4.9,5.2b		
IDC	I	20 11 36 41.5–.37	29.65N	129.37E	157–3	5.2,4.8		
NEIC	I	20 11 36 41.8–.42	29.65N	129.27E	156–3	5.2b,4.8		
GCMT	I	20 11 36 41.8–.20	29.56N	129.45E	159–1	5.2W,4.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ19.00000°,λ17.00000°. NP2:ϕ_s24.00000°,δ84.00000°,λ109.00000°. $M_0$7.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=42.6.
MOS Error ellipse: s-maj=8.1km s-min=4.4km az=109.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=7.2km s-min=5.7km az=79.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=138.0. Recorded [2 JMA] on Akuseki-jima, Amami-oshima, Tokuno-shima and Yoro-shima; [1 JMA] on Kikaiga-shima, Nakano-shima, Okino-erabu-shima, Suwanose-jima, Tanega-shima and Yaku-shima. Also recorded [1 JMA] in Kagoshima and Miyazaki, Kyushu.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c84; s104,c171; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.28±.19 $M_{\theta\theta}$0.60±.22; $M_{\phi\phi}$-0.31±.25; $M_{r\theta}$2.51±.13; $M_{\theta\phi}$2.02±.22; $M_{\phi r}$7.49±.14; Best double couple: NP1:ϕ_s197.00000°,δ88.00000° ,λ-104.00000°. NP2:ϕ_s99.00000°,δ14.00000°,λ-9.00000°. Principal axes: T 8.4910,Plg41.0000°,Azm300.0000°; N -0.6860,Plg14.0000°,Azm198.0000° ; P -7.8060,Plg45.0000°,Azm94.0000° $M_0$8.14900×10^{16}

(162) South Island

ISC	**I**	**20 13 12 21.6–.78**	**43.60S–.03**	**172.59E–.03**	**16–5**		**40**	**0-149**
ISCJB	I	20 13 12 21.2–.50	43.64S–.04	172.63E–.06	20–3	3.4b		**¶15949107**
IDC	I	20 13 12 21.5–1.9	43.28S	172.46E	0	3.8,3.6		
WEL	I	20 13 12 22.6–.09	43.61S	172.52E	8–0	4.3L,3.6		
NEIC	I	20 13 12 22.6	43.61S	172.52E	8	4.4L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.2km az=40.1.
IDC Error ellipse: s-maj=47.2km s-min=14.5km az=149.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(227) Eastern Honshu

ISC	**I**	**20 13 20 14.6–.91**	**37.03N–.04**	**139.92E–.05**	**16–6**	**3.5b**	**20**	**0-61**
NIED	I	20 13 20 00	37.00N	139.90E	5	4.0W		**¶15949108**
ISCJB	I	20 13 20 13.4–.80	37.04N–.05	140.04E–.06	18–4	3.5b		
JMA	I	20 13 20 14.8	37.04N	139.92E	14–1	3.7		
IDC	I	20 13 20 18.0–2.7	37.07N	140.05E	49–23	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ8.00000°,λ29.00000°. NP2:ϕ_s63.00000°,δ86.00000°,λ97.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=33.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s47.00000°,δ77.00000°,λ100.00000°. NP2:ϕ_s188.00000°,δ17.00000°,λ53.00000°. Principal axes: T Plg57.0000°,Azm330.0000°; N Plg10.0000°,Azm224.0000°; P Plg31.0000° ,Azm128.0000°
IDC Error ellipse: s-maj=24.0km s-min=17.1km az=111.0.

(159) North Island

ISC	**I**	**20 17 46 57.2–.90**	**40.11S–.02**	**176.22E–.02**	**33–2**	**4.2b**	**176**	**0-153**
IDC	I	20 17 46 51.0–1.8	40.10S	176.39E	0	4.3,4.2b		**¶15949110**
ISCJB	I	20 17 46 57.0–.30	40.14S–.02	176.32E–.04	49–3	4.2b,4.2b		
WEL	I	20 17 46 58.0–.05	40.10S	176.21E	35–1	4.1L,4.2b		
NEIC	I	20 17 46 58.3	40.14S	176.29E	35	4.1L,4.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=42.9km s-min=17.8km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.8km az=21.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt from King Country to Wairarapa, and from Whanganui to Hawke''s Bay. maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(162) South Island

WEL	**I**	**20 19 33 52.9–.11**	**43.63S**	**172.24E**	**9–1**	**3.8L**		
								¶15949111

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(249) Luzon

ISC	**I**	**21 00 55 22.4–.84**	**16.38N–.03**	**121.20E–.03**	**15–5**	**4.5b,3.5s**	**186**	**1-152**
ISCJB	I	21 00 55 20.1–.82	16.45N–.03	121.23E–.03	9–5	4.4b,3.5s		**¶15947998**

BJI	I	21 00 55 21.0	16.21N	121.27E	21	4.7b,4.4b	
MAN	I	21 00 55 22	16.42N	121.10E	8	5.1b,4.3s	
MOS	I	21 00 55 23.7–.90	16.46N	121.25E	37	4.7b,4.3s	
NEIC	I	21 00 55 24.4–1.8	16.46N	121.21E	28–12	4.6b,4.3s	
IDC	I	21 00 55 28.4–4.5	16.46N	121.23E	64–42	4.2,4.1	

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.9km az=29.9.
MAN Event type fe. INTENSITY IV - BAYOMBONG NUEVA VISCAYA; INTENSITY III - SOLANO NUEVA VISCAYA; INTENSITY II - BAGUIO CITY; CAUAYAN CITY AND SANTIAGO ISABELA.
MOS Error ellipse: s-maj=14.2km s-min=6.1km az=123.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=113.0. Felt [IV PIVS] at Bayombong, [III PIVS] at Solano and [II PIVS] at Baguio City, Cauayan and Santiago. Also felt at Manila.
IDC Error ellipse: s-maj=19.0km s-min=12.6km az=74.0.

(134) Off coast of central Chile

ISC	**I**	**21 02 00 01.9–.71**	**37.57S–.06**	**73.7W–.10**	**35**	**4.2b**	**32**	**1-170**
ISCJB	I	21 01 59 59.7–.68	37.67S–.05	73.7W–.10	33	4.4b,3.6s		**¶16032942**
NEIC	I	21 01 59 59.0	37.39S	74.02W	45	4.1b,3.6s		
GUC	I	21 01 59 59.4–.59	37.39S	74.02W	45–4	4.4L,3.6s		
IDC	I	21 02 00 00.5–6.0	37.60S	73.46W	20–36	4.3L,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.2km az=16.4.
NEIC Event type fe. Felt [V] at Arauco; [IV] at Curanilahue, Lebu and Los Alamos; [III] at Concepcion, Coronel, Nacimiento and Penco; [II] at La Laja, Los Angeles, Mulchen, San Rosendo, Santa Barbara and Tirua. After GUC.
GUC Error ellipse: s-maj=12.3km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=33.1km s-min=19.1km az=71.0.

(92) Leeward Islands

ISC	**I**	**21 03 37 16.0–.46**	**17.29N–.03**	**63.18W–.03**	**164–4**	**5.0b**	**1047**	**0-163**
TRN	I	21 03 37 14.5	17.43N	63.09W	172	4.7		**¶15948003**
ISCJB	I	21 03 37 15.3–.14	17.27N–.02	63.23W–.02	169–1	4.9b		
IDC	I	21 03 37 16.0–.66	17.15N	63.26W	165–6	4.6,4.3		
MOS	I	21 03 37 15.6–.89	17.28N	63.24W	169	4.9b,4.3		
GCMT	I	21 03 37 16.2–.20	17.38N	63.16W	169–2	5.0W,4.3		
NEIC	I	21 03 37 16.7–.19	17.23N	63.20W	168–2	5.0b,4.8		

ISC Event type fe.
TRN Event type fe. Felt St. Martin and Anguilla MM intensity II, III.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=30.1.
IDC Error ellipse: s-maj=8.4km s-min=6.1km az=43.0.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=123.6.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c45; s104,c137; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.11±.14 $M_{\theta\theta}$0.71±.20; $M_{\phi\phi}$1.40±.20; $M_{r\theta}$-2.50±.11; $M_{\theta\phi}$0.84±.17; $M_{\phi r}$-2.57±.11; Best double couple: NP1:ϕ_s43.00000°,δ75.00000° ,λ-86.00000°. NP2:ϕ_s207.00000°,δ15.00000°,λ-105.00000°. Principal axes: T 4.0250,Plg30.0000°,Azm129.0000°; N 0.1980,Plg4.0000°,Azm222.0000° ; P -4.2180,Plg59.0000°,Azm318.0000° $M_0$4.12100×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=219.0. Felt [III] on Anguilla and Saint Martin and [II] on Saint-Barthelemy. Also felt on Antigua, Barbuda and Saint Kitts. Felt on Saint John and Tortola, Virgin Islands and as far as San Juan, Puerto Rico.

(124) Chile-Bolivia border region

ISC	**I**	**21 12 02 41.1–.74**	**21.22S–.04**	**68.65W–.06**	**112–7**	**4.3b**	**68**	**1-160**
ISCJB	I	21 12 02 40.3–.36	21.22S–.04	68.63W–.05	116–4	4.2b		**¶15957992**
GUC	I	21 12 02 40.8–.60	21.24S	68.74W	115–6	4.5L		
IDC	I	21 12 02 40.2–1.4	21.13S	68.54W	104–16	4.5s,4.5		
NEIC	I	21 12 02 41.6–.71	21.23S	68.36W	116–7	4.4b,4.5		
SJA	I	21 12 02 41.4–.49	21.42S	68.68W	135–13	3.2,4.5		
BJI	I	21 12 02 42.6	21.20S	68.40W	110	3.2,4.5		
SCB	I	21 12 02 50.0–.82	20.33S	68.61W	115	3.5L,4.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.3km az=154.0.
GUC Error ellipse: s-maj=1.6km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=17.8km az=144.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.4km az=63.0. Felt [II] at Pozo Almonte.
SJA Error ellipse: s-maj=11.6km s-min=9.7km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=73.0km s-min=17.9km az=93.0.

(134) Off coast of central Chile

ISC	**I**	**21 15 36 10.9–1.3**	**33.96S–.04**	**72.20W–.06**	**25–8**	**4.8b,4.4s**	**196**	**0-176**
IDC	I	21 15 36 07.0–.56	33.92S	72.26W	0	4.5,4.5L		**¶15954510**
GUC	I	21 15 36 09.6–.61	33.97S	72.25W	12–5	4.7L,4.5L		
GCMT	I	21 15 36 09.0–.50	34.03S	72.48W	28–1	5.0W,4.5L		
NEIC	I	21 15 36 09.0	33.97S	72.24W	12	5.0b,4.7L		
BJI	I	21 15 36 10.8	34.00S	71.80W	18	5.5s,5.2		
MOS	I	21 15 36 11.8–1.5	34.09S	72.00W	33	4.8b,5.2		
ISCJB	I	21 15 36 11.5–.78	34.06S–.04	72.11W–.05	33–6	4.8b,4.4s		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c44; s53,c70;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.54±.21 $M_{\theta\theta}$0.01±.13; $M_{\phi\phi}$-2.55±.15; $M_{r\theta}$-0.66±.22; $M_{\theta\phi}$0.07±.09; $M_{\phi r}$-2.24±.27; Best double couple: NP1:ϕ_s190.00000°,δ66.00000°,λ99.00000°. NP2:ϕ_s347.00000°,δ25.00000°,λ69.00000°. Principal axes: T 3.5030,Plg67.0000°,Azm118.0000°; N -0.1020,Plg9.0000°,Azm6.0000° ; P -3.4040,Plg21.0000°,Azm273.0000° $M_0$3.45300×10^{16}
NEIC Event type fe. Felt [V] at Navidad; [IV] at Longavi, Pichilemu and San Clemente; [III] at Constiticion, Empedrado, La Estrella, Marchihue, Rio Claro and Talca; [II] at Cauquenes, Chanco, Iloca, Paredones, Rancagua, San Antonio, San Fernando, Santa Cruz, Santiago and Vina del Mar. Also felt at Valparaiso. After GUC.
ISCJB Event type fe.

(402) North Atlantic Ocean

ISC	**I**	**21 16 15 43.4–.61**	**20.07N–.03**	**66.06W–.03**	**19–2**	**5.3b,4.5s**	**1013**	**2-161**
IDC	I	21 16 15 40.8–.33	20.07N	66.00W	0	5.1,5.1		**¶15954511**
MOS	I	21 16 15 40.6–1.2	20.12N	66.20W	10	5.3b,4.5s		
ISCJB	I	21 16 15 42.2–.89	20.14N–.02	66.06W–.02	19–6	5.2b,4.5s		
NEIC	I	21 16 15 45.0	20.07N	66.01W	29	5.3,5.3b		
GCMT	I	21 16 15 45.0–.20	20.30N	66.11W	12	5.2W,5.3b		

ISC Event type fe.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=70.0.
MOS Error ellipse: s-maj=6.1km s-min=4.8km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=30.2.
NEIC Event type fe. Felt [III] at Aibonito, Bayamon, Caguas, Guaynabo and San Juan; [II] at Carolina, Cidra and Toa Baja. Felt in much of Puerto Rico, including at Mayaguez and Ponce. Felt [II] on Saint Thomas, Virgin Islands. Also felt on Saint John. Felt at Barahona and Santo Domingo, Dominican Republic. After RSPR. Moment Tensor Solution. s22 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.80 $M_{\theta\theta}$2.58 $M_{\phi\phi}$0.22 $M_{r\theta}$-0.13 $M_{\theta\phi}$1.55 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s230.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s77.00000° ,δ45.00000°,λ-70.00000°. Principal axes: T 3.3500,Plg1.0000°,Azm333.0000° ; N -0.4000,Plg14.0000°,Azm243.0000°; P -2.9500,Plg76.0000°,Azm69.0000° $M_0$3.20000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c69; s97,c168; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.42±.16 $M_{\theta\theta}$4.10±.13; $M_{\phi\phi}$0.32±.16; $M_{r\theta}$3.02±.42; $M_{\theta\phi}$4.35±.12; $M_{\phi r}$1.85±.49; Best double couple: NP1:ϕ_s239.00000°,δ61.00000° ,λ-88.00000°. NP2:ϕ_s54.00000°,δ29.00000°,λ-94.00000°. Principal axes: T 7.9660,Plg16.0000°,Azm327.0000°; N -2.5250,Plg2.0000°,Azm57.0000° ; P -5.4360,Plg74.0000°,Azm154.0000° $M_0$6.70100×10^{16}

(74) Near coast of Nicaragua

ISC	**I**	**21 17 18 18.8–.29**	**11.64N–.04**	**86.21W–.04**	**91–2**	**5.0b**	**922**	**0-153**
IDC	I	21 17 18 18.5–.43	11.84N	86.00W	86–3	4.7,4.5		**¶15954513**
BJI	I	21 17 18 18.8	11.60N	86.30W	94	5.2b,4.5		
ISCJB	I	21 17 18 18.7–.23	11.67N–.02	86.25W–.02	101–2	4.9b,4.5		
CASC	I	21 17 18 19.2–.90	11.55N	86.34W	74–5	5.1b,5.1L		
MOS	I	21 17 18 19.4–1.0	11.61N	86.16W	111	5.1b,5.1L		
NEIC	I	21 17 18 19.5–.22	11.58N	86.29W	94	5.2,5.1b		
GCMT	I	21 17 18 19.5–.20	11.61N	86.47W	83–1	5.3W,5.1b		

ISC Event type fe.
IDC Error ellipse: s-maj=15.7km s-min=7.8km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=34.5.
CASC Error ellipse: s-maj=2.5km s-min=2.2km az=-1.0.
MOS Error ellipse: s-maj=11.2km s-min=5.0km az=115.2.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.2km az=209.0. Felt [IV] at Managua and Tola, [III] at Masaya and Ticuantepe and [II] at Granada, Leon and San Juan del Sur. Also felt at Catarina, Ciudad Sandino, Diriamba, Jinotepe, La Paz Centro, Moyogalpa, Potosi, Rivas and San Marcos. Felt [II] at Sardinal, Costa Rica. Also felt at Belen, Liberia and Santa Cruz. Felt [II] at San Salvador, El Salvador.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c90; s110,c182; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.62±.20 $M_{\theta\theta}$0.03±.20; $M_{\phi\phi}$-1.65±.23; $M_{r\theta}$1.69±.11; $M_{\theta\phi}$-7.66±.18; $M_{\phi r}$-5.01±.12; Best double couple: NP1:ϕ_s180.00000°,δ80.00000° ,λ34.00000°. NP2:ϕ_s83.00000°,δ57.00000°,λ168.00000°. Principal axes: T 9.6580,Plg31.0000°,Azm47.0000°; N -0.4330,Plg55.0000°,Azm195.0000° ; P -9.2270,Plg15.0000°,Azm307.0000° $M_0$9.44300×10^{16}

(135) Near coast of central Chile

ISC	**I**	**21 18 46 45.0–1.7**	**33.75S–.05**	**72.11W–.06**	**16–10**	**4.0b,3.4s**	**33**	**1-157**
ISCJB	I	21 18 46 44.7–1.1	33.76S–.05	72.17W–.06	26–9	4.0b,3.4s		**¶16152032**
GUC	I	21 18 46 46.6–.63	33.82S	72.08W	36–5	4.2L,3.4s		
NEIC	I	21 18 46 47.8–2.4	33.74S	71.98W	34–17	4.4b,4.2L		
IDC	I	21 18 46 48.1–5.1	33.77S	71.94W	35–39	4.0L,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.4km az=41.2.
GUC Error ellipse: s-maj=3.1km s-min=5.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=6.4km az=89.0. Felt [IV] at Navidad and [II] at La Estrella, Marchihue, Pichilemu, Rancagua, San Antonio, Villa Alemana and Vina del Mar.
IDC Error ellipse: s-maj=40.3km s-min=27.2km az=98.0.

(460) Wyoming

ISC	**I**	**21 20 03 31.1–.83**	**43.52N–.07**	**105.05W–.06**	**0**		**15**	**1-93**
IDC	I	21 20 03 27.8–1.5	42.88N	104.79W	0	4.1,4.1b		**¶17190696**
ISCJB	I	21 20 03 29.8–.85	43.5N–.10	104.90W–.09	0	4.2b,4.1b		
NEIC	I	21 20 03 33.4–.77	43.67N	105.32W	0	3.1L,4.1b		

ISC Event type sm.
IDC Error ellipse: s-maj=24.9km s-min=9.0km az=158.0.
ISCJB Event type fm. Error ellipse: s-maj=16.4km s-min=7.2km az=153.0.
NEIC Event type fm. Error ellipse: s-maj=14.6km s-min=9.6km az=147.0. 71 km [44 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC	**I**	**21 22 31 46.0–.87**	**43.25N–.04**	**105.83W–.04**	**0**		**31**	**1-7**
ISCJB	I	21 22 31 45.0–.58	43.21N–.04	105.89W–.04	0			**¶601792940**
NEIC	I	21 22 31 45.8–.81	43.25N	105.80W	0	2.6L		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.1km s-min=3.9km az=16.9.
NEIC Event type fm. Error ellipse: s-maj=10.9km s-min=9.6km az=190.0. 43 km [26 miles] ESE of Midwest. Suspected Mining explosion.

(227) Eastern Honshu

ISC	**I**	**22 01 02 26.2–1.2**	**37.01N–.06**	**141.03E–.08**	**90–7**	**3.2b**	**27**	**0-57**
NIED	I	22 01 02 00	37.00N	141.00E	74	3.6W		**¶17190706**
ISCJB	I	22 01 02 25.0–.88	37.00N–.05	141.12E–.10	94–5	3.1b		
JMA	I	22 01 02 26.7–.10	37.02N	140.99E	89–1	3.6		
IDC	I	22 01 02 31.5–5.7	36.80N	140.38E	118–39	3.2,3.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ59.00000°,λ-35.00000°. NP2:ϕ_s249.00000°,δ61.00000°,λ-144.00000°. $M_0$2.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=6.8km az=25.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=63.7km s-min=22.8km az=67.0.

(116) Central Peru

ISC	**I**	**22 02 06 51.8–.32**	**12.27S–.05**	**73.08W–.06**	**35**	**5.1b,4.7s**	**494**	**4-173**
IDC	I	22 02 06 45.5–.57	12.25S	73.19W	0	4.5,4.5		**¶15957994**
ISCJB	I	22 02 06 49.6–.20	12.16S–.03	73.00W–.03	33	5.0b,4.6s		
NEIC	I	22 02 06 51.7–1.3	12.15S	73.06W	34–9	5.1b,5.0L		
GCMT	I	22 02 06 51.1–.30	12.14S	72.99W	36–1	5.0W,5.0L		
BJI	I	22 02 06 53.5	12.10S	73.00W	23	5.5,5.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=22.7km s-min=12.7km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=139.1.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=57.0. Felt [II] at Quillabamba. Also felt at Santa Ana.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c52; s61,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.93±.21 $M_{\theta\theta}$-1.38±.14; $M_{\phi\phi}$-1.56±.18; $M_{r\theta}$-1.90±.15; $M_{\theta\phi}$2.26±.08; $M_{\phi r}$1.28±.19; Best double couple: NP1:ϕ_s308.00000°,δ63.00000° ,λ81.00000°. NP2:ϕ_s147.00000°,δ29.00000°,λ107.00000°. Principal axes: T 3.6870,Plg71.0000°,Azm197.0000°; N 0.7220,Plg8.0000°,Azm312.0000° ; P -4.4180,Plg17.0000°,Azm45.0000° $M_0$4.05300×10^{16}

(230) Near south coast of eastern Honshu

ISC	**I**	**22 02 48 08.2–.48**	**34.48N–.04**	**137.90E–.04**	**288–4**	**4.2b**	**240**	**0-126**
NIED	I	22 02 48 00	34.50N	137.90E	290	4.4W		**¶15957575**
BJI	I	22 02 48 05.3	34.35N	137.82E	277	4.6b,4.5b		
MOS	I	22 02 48 06.4–.87	34.36N	137.83E	284	4.4b,4.5b		
IDC	I	22 02 48 07.9–.53	34.37N	137.85E	286–5	4.4,3.9		
NEIC	I	22 02 48 07.7–.48	34.40N	137.89E	284–5	4.3b,3.9		
JMA	I	22 02 48 07.6–.30	34.50N	137.93E	298–3	4.1,3.9		
ISCJB	I	22 02 48 07.6–.21	34.46N–.03	137.89E–.04	294–1	4.2b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ30.00000°,λ0.00000°. NP2:ϕ_s51.00000°,δ90.00000°,λ-120.00000°. $M_0$4.10000×10^{15}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(662) Sakhalin Island

ISC	**I**	**22 03 58 22.5–.92**	**48.81N–.03**	**142.27E–.05**	**11**		**22**	**0-7**
ISCJB	I	22 03 58 20.9–.53	48.79N–.02	142.11E–.07	11			**¶17267642**
SKHL	I	22 03 58 20.2–1.2	48.75N	142.11E	9–3	4.0b		
MOS	I	22 03 58 21.6–2.8	48.77N	142.05E	8	4.0b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.2km az=178.8.
SKHL Event type fe. Felt (III) at Uglegorsk, Porech'ye, (II-III) at Krasnopol'ye.
MOS Event type fe. Error ellipse: s-maj=55.2km s-min=18.8km az=95.6. Felt (III) at Uglegorsk, Porech'ye, (II-III) at Krasnopol'ye. Moment Tensor Solution.

(224) Hokkaido region

ISC	**I**	**22 05 49 01.8–.48**	**42.35N–.03**	**142.97E–.03**	**56–4**	**4.9b,3.7s**	**545**	**0-152**
BJI	I	22 05 48 57.5	42.11N	143.33E	54	5.0b,4.8b		**¶15957580**
NIED	I	22 05 49 00	42.30N	143.00E	56	4.5W,4.8b		
MOS	I	22 05 49 00.8–.96	42.38N	142.86E	60	5.2b,4.8b		
ISCJB	I	22 05 49 01.1–.25	42.32N–.02	142.92E–.02	65–2	4.9b,4.8b		
JMA	I	22 05 49 02.4–.10	42.32N	143.00E	53–1	4.4,4.8b		
IDC	I	22 05 49 02.8–1.5	42.36N	142.95E	68–11	4.5,4.4		
NEIC	I	22 05 49 02.5–.32	42.36N	142.90E	62–3	5.1b,4.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ29.00000°,λ73.00000°. NP2:ϕ_s27.00000°,δ63.00000°,λ99.00000°. $M_0$6.47000×10^{15}
MOS Error ellipse: s-maj=6.0km s-min=4.2km az=100.1.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=153.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ66.00000°,λ83.00000°. NP2: ϕ_s221.00000°,δ25.00000°,λ106.00000°. Principal axes: T Plg68.0000°,Azm280.0000° ; N Plg7.0000°,Azm26.0000°; P Plg21.0000°,Azm119.0000°
IDC Error ellipse: s-maj=13.6km s-min=9.4km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=145.0. Felt at Obihiro. Recorded [2 JMA] in south-central Hokkaido and in southwestern Hokkaido. Also recorded [2 JMA] in Aomori, Honshu.

(115) Near coast of Peru

ISC	**I**	**22 07 00 15.3–.92**	**14.89S–.10**	**76.1W–.10**	**29**	**4.0b,3.2s**	**30**	**3-147**
SCB	I	22 06 59 56.5–.58	14.28S	77.03W	33	3.9L,3.2s		**¶16022172**
IDC	I	22 07 00 11.9–1.3	14.69S	76.03W	0	4.2,4.0		
ISCJB	I	22 07 00 13.5–.76	14.92S–.08	76.07W–.09	29	3.9b,3.0s		
NEIC	I	22 07 00 17.1–.85	14.67S	75.91W	35	4.6L,4.2b		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=76.6km s-min=13.2km az=20.0.
IDC Error ellipse: s-maj=33.0km s-min=14.0km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=6.1km az=44.4.

NEIC Event type fe. Error ellipse: s-maj=21.6km s-min=9.9km az=38.0. Felt [II] at Nazca and Palpa.

(249) Luzon

ISC	**I**	**22 10 18 17.3–.48**	**15.77N–.04**	**119.75E–.05**	**51–4**	**4.4b,3.7s**	**176**	**0-154**
IDC	I	22 10 18 09.4–.44	15.81N	119.59E	0	4.7L,4.3		¶15957616
MAN	I	22 10 18 11	15.77N	119.30E	12	5.4b,4.7s		
MOS	I	22 10 18 13.3–1.2	15.76N	119.63E	39	4.8b,4.7s		
ISCJB	I	22 10 18 15.8–.31	15.79N–.02	119.77E–.04	56–3	4.4b,3.8s		
NEIC	I	22 10 18 15.0–.30	15.73N	119.67E	35	4.6b,3.8s		
KLM	I	22 10 18 18.2	15.70N	119.53E	65	4.8b,3.8s		
BJI	I	22 10 18 20.8	16.18N	119.62E	57	4.7b,4.4b		
BKK	I	22 10 18 21.0–.80	15N–5.0	120E–10	10	5.1b,4.4		

ISC Event type fe.
MAN Event type fe. INTENSITY I - IBA ZAMBALES.
ISCJB Event type fe.
NEIC Event type fe. Felt [I PIVS] at Iba. Also felt at Manila.

(337) Eastern Caucasus

ISC	**I**	**22 10 54 29.3–.97**	**42.70N–.02**	**46.21E–.01**	**11–7**		**190**	**0-22**
TIF	I	22 10 54 27.5	42.70N	46.17E	12–1			¶16451928
CSEM	I	22 10 54 28.8–.13	42.69N	46.20E	2	4.1b		
MOS	I	22 10 54 28.1–1.3	42.70N	46.22E	7	4.1b		
AZER	I	22 10 54 30.8–.63	42.24N	45.84E	2	4.1b		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=17.0.
MOS Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=29.6. Felt (III-IV) at Botlikh. Moment Tensor Solution.
AZER Error ellipse: s-maj=1.8km s-min=0.6km az=338.0.

(196) Irian Jaya region

ISC	**I**	**22 13 21 25.7–.60**	**0.53S–.03**	**132.66E–.03**	**14–3**	**5.2b,4.1s**	**350**	**1-167**
BJI	I	22 13 21 21.2	0.77S	132.49E	5	5.1b,5.1b		¶15958000
IDC	I	22 13 21 23.3–.41	0.44S	132.71E	0	5.0,5.0		
ISCJB	I	22 13 21 26.0–1.1	0.46S–.03	132.79E–.03	33–8	5.1b,4.1s		
MOS	I	22 13 21 26.2–1.1	0.45S	132.62E	33	5.3b,4.0s		
GCMT	I	22 13 21 28.2–.20	0.38S	132.68E	31–0	5.1W,4.0s		
DJA	I	22 13 21 28.7–.70	0S–4.0	133E–2.0	21–7	5.5b,5.5		
NEIC	I	22 13 21 28.2–.95	0.49S	132.58E	35–9	5.2b,5.5		

ISC Event type fe.
IDC Error ellipse: s-maj=15.0km s-min=10.6km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=143.4.
MOS Error ellipse: s-maj=12.4km s-min=5.4km az=113.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c75; s79,c112; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.27±.18 $M_{\theta\theta}$-3.01±.12; $M_{\phi\phi}$-1.26±.13; $M_{r\theta}$-1.56±.13; $M_{\theta\phi}$2.08±.07; $M_{\phi r}$2.01±.18; Best double couple: NP1:ϕ_s313.00000°,δ60.00000°,λ99.00000°. NP2:ϕ_s114.00000°,δ31.00000°,λ74.00000°. Principal axes: T 5.0220,Plg73.0000°,Azm246.0000°; N 0.0040,Plg8.0000°,Azm128.0000° ; P -5.0260,Plg15.0000°,Azm36.0000° $M_0$5.02400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.2km az=223.0. Felt [III] at Sorong and [II] at Manokwari.

(163) Cook Strait

ISC	**I**	**22 15 25 58.7–.83**	**41.41S–.03**	**174.21E–.03**	**50–5**	**4.2b**	**165**	**0-152**
IDC	I	22 15 25 51.7–1.1	41.11S	174.37E	0	4.3,4.1b		¶15959226
ISCJB	I	22 15 25 57.9–.26	41.47S–.03	174.22E–.03	61–4	3.9b,4.1b		
NEIC	I	22 15 25 60.0	41.36S	174.21E	43	4.4L,4.1b		
WEL	I	22 15 25 59.8–.07	41.33S	174.18E	43–0	4.4L,4.1b		

ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=28.5km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.0km az=140.7.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0. Felt from Whanganui to Marlborough, and from Nelson to Manawatu, maximum. reported intensity MM 5.

(40) California-Nevada border region

ISC	**I**	**22 17 29 25.8–.41**	**38.58N–.02**	**118.33W–.02**	**10**	**3.7b**	**131**	**0-95**
BJI	I	22 17 29 22.7	38.50N	118.40W	8	5.3b,5.2b		¶15958007
ISCJB	I	22 17 29 25.5–.23	38.61N–.02	118.35W–.03	10	4.2b,4.0s		
NEIC	I	22 17 29 25.7	38.54N	118.38W	8	4.3L,4.0W		
IDC	I	22 17 29 25.6–.63	38.57N	118.31W	0	4.0L,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=6.3.
NEIC Event type fe. Felt [II] at Hawthorne. Also felt at Fallon. After REN. Moment Tensor Solution.
IDC Error ellipse: s-maj=10.3km s-min=5.8km az=99.0.

(134) Off coast of central Chile

ISC	**I**	**22 17 51 10.8–.79**	**37.16S–.07**	**73.87W–.10**	**35**	**4.0s,4.0b**	**23**	**1-158**
IDC	I	22 17 51 06.3–1.2	37.20S	73.78W	0	4.2,4.0		¶16152116
ISCJB	I	22 17 51 08.1–.73	37.28S–.06	73.95W–.09	33	4.1s,3.9b		
NEIC	I	22 17 51 08.0	37.09S	74.07W	35	4.7L,4.3b		
GUC	I	22 17 51 08.3–.61	37.09S	74.07W	35–3	4.7L,4.3b		

ISC Event type fe.
IDC Error ellipse: s-maj=36.3km s-min=19.1km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.9km az=29.9.
NEIC Event type fe. Felt [IV] at Coronel; [III] at Canete, Curanilahue and San Pedro de La Paz; [II] at Cauquenes, Chanco, Lebu and Los Alamos. After GUC.
GUC Error ellipse: s-maj=11.9km s-min=5.7km az=-1.0.

(135) Near coast of central Chile

ISC	**I**	**22 18 33 40.9–.85**	**34.67S–.04**	**71.72W–.06**	**52–7**	**4.2b**	**32**	**0-157**
ISCJB	I	22 18 33 40.0–.47	34.66S–.04	71.75W–.07	64–4	4.0b		¶16152117
NEIC	I	22 18 33 41.0	34.69S	71.69W	46	4.4		
GUC	I	22 18 33 41.7–.46	34.69S	71.69W	46–2	4.4L		
IDC	I	22 18 33 42.1–3.6	34.60S	71.36W	52–31	4.0,3.9L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.7km az=17.4.
NEIC Event type fe. Felt [IV] at Romeral; [III] at Curico, Molina, Rio Claro and Talca; [II] at Iloca, Lolol, Navidad, Paredones, Pichilemu, Rancagua, Rengo, San Fernando and Santa Cruz. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=43.3km s-min=25.5km az=84.0.

(40) California-Nevada border region

ISC	**I**	**22 19 21 03.9–1.2**	**38.53N–.02**	**118.40W–.03**	**0–10**	**3.1b**	**74**	**0-89**
NEIC	I	22 19 21 04.6	38.54N	118.38W	14	4.2L		¶15959231
IDC	I	22 19 21 04.3–.55	38.60N	118.28W	0	3.6L,3.4		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Hawthorne. After REN.
IDC Error ellipse: s-maj=5.2km s-min=4.4km az=123.0.

(174) Tonga Islands region

ISC	**I**	**22 22 16 41.4–.45**	**19.3S–.10**	**172.38W–.10**	**35**	**4.7b,3.8s**	**121**	**5-172**
IDC	I	22 22 16 32.7–.51	18.10S	172.15W	0	4.6,4.6L		¶15959232
NEIC	I	22 22 16 37.9–.33	19.28S	172.44W	10	4.9b,4.6L		
ISCJB	I	22 22 16 40.4–.29	19.19S–.09	172.55W–.07	33	4.7b,3.9s		
BJI	I	22 22 16 41.7	19.70S	172.92W	35	5.5b,5.2s		

ISC Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=14.6km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=17.4km s-min=8.3km az=155.0. Felt at Fagatogo, American Samoa.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=7.0km az=149.7.

(1) Central Alaska

ISC	**I**	**23 02 50 05.5–.44**	**63.51N–.02**	**150.82W–.02**	**14–2**	**5.1b,4.7s**	**1020**	**0-164**
BJI	I	23 02 50 01.3	63.50N	150.80W	10	5.5s,5.2b		¶15959234
MOS	I	23 02 50 03.4–.99	63.58N	150.94W	13	5.2b,4.6s		
IDC	I	23 02 50 03.9–.39	63.60N	150.88W	0	4.7,4.6L		
ISCJB	I	23 02 50 03.6–.52	63.56N–.01	150.88W–.03	12–3	5.0b,4.7s		
NEIC	I	23 02 50 04.6	63.54N	150.87W	16	5.4L,5.1W		
GCMT	I	23 02 50 04.6–.10	63.57N	150.89W	18–1	5.2W,5.1W		

ISC Event type fe.
MOS Error ellipse: s-maj=9.2km s-min=4.2km az=102.0.
IDC Error ellipse: s-maj=9.4km s-min=7.0km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=18.1.
NEIC Event type fe. Felt [IV] at Cantwell and Talkeetna; [III] at Denali National Park, Fairbanks, Healy and Nenana; [II] at Eagle River, Fort Wainwright, North Pole, Wasilla and Willow. Also felt at Anchorage, Chugiak, Clear, Delta Junction, Eielson AFB, Ester, Palmer, Skwentna and Trapper Creek. After AEIC. Moment Tensor Solution. s25 Moment tensor: Scale 10^{16}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.90 $M_{\phi\phi}$0.90 $M_{r\theta}$0.08 $M_{\theta\phi}$-5.09 $M_{\phi r}$0.91 Best double couple: NP1:ϕ_s275.00000°,δ80.00000°,λ-180.00000°. NP2:ϕ_s185.00000°,δ90.00000°,λ-10.00000°. Principal axes: T 5.2500,Plg7.0000°,Azm230.0000°; N 0.0000,Plg80.0000°,Azm5.0000° ; P -5.2500,Plg7.0000°,Azm140.0000° $M_0$5.30000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c102; s106,c186; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.10±.18 $M_{\theta\theta}$0.51±.20; $M_{\phi\phi}$0.58±.17; $M_{r\theta}$-0.46±.40; $M_{\theta\phi}$-9.04±.15; $M_{\phi r}$0.90±.36; Best double couple: NP1:ϕ_s0.00000°,δ88.00000°,λ5.00000°. NP2:ϕ_s270.00000°,δ85.00000°,λ178.00000°. Principal axes: T 9.6740,Plg5.0000°,Azm225.0000°; N -1.1730,Plg84.0000°,Azm20.0000° ; P -8.5040,Plg2.0000°,Azm135.0000° $M_0$9.08900×10^{16}

(48) Baja California

ISC	**I**	**23 05 30 01.3–.74**	**31.26N–.04**	**115.64W–.03**	**9–5**	**3.9b,3.6s**	**202**	**0-102**
NEIC	I	23 05 29 59.8	31.22N	115.70W	16	4.5L,4.4		¶15959235
ECX	I	23 05 29 59.8–.48	31.22N	115.70W	4	4.5L,4.3		
BJI	I	23 05 29 59.7	31.25N	115.75W	17	4.8b,4.3		
MEX	I	23 05 30 00.9–.49	31.11N	115.68W	15–7	4.4,4.3		
IDC	I	23 05 30 02.1–1.7	31.55N	115.37W	0	4.0,3.9		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Vicente Guerrero and [II] at Tijuana. Also felt at Ensenada and San Felipe and at San Luis Rio Colorado, Sonora. Felt at Yuma, Arizona and at Chula Vista, San Diego and San Ysidro, California. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=2.1km az=-1.0. Moment Tensor Solution. NP1:ϕ_s30.00000°,δ90.00000°,λ0.00000°.
MEX Error ellipse: s-maj=8.3km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=9.9km az=45.0.

(533) United Kingdom

ISC	**I**	**23 06 02 47.6–.82**	**56.80N–.02**	**5.54W–.03**	**18–3**		**243**	**0-15**
CSEM	I	23 06 02 45.7–.28	56.70N	5.86W	10	3.5L		¶15959238
LDG	I	23 06 02 47.9–.07	56.81N	5.76W	16	3.8L		
BGS	I	23 06 02 49.3–.82	56.82N	5.78W	16–4	3.5L		
NEIC	I	23 06 02 49.3	56.82N	5.78W	16	3.5L		
BER	I	23 06 02 49.7–.69	56.82N	5.83W	13–3	3.2,3.1L		
NAO	I	23 06 02 52.4–6.6	56.94N	5.26W	21–25	3.2,3.1L		

ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=3.1km az=92.0.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=83.0.
BGS Error ellipse: s-maj=1.9km s-min=7.0km az=-1.0.
NEIC Event type fe. Felt [IV] in the Fort William area. Felt throughout the Inverness-Oban-Kyle of Lochalsh area and in much of central Scotland. After BGS.
BER Error ellipse: s-maj=1.8km s-min=6.0km az=-1.0.
NAO Error ellipse: s-maj=0.1km s-min=0.5km az=-1.0.

(45) California-Baja California border region

ISC	**I**	**23 06 47 24.4–.88**	**32.25N–.02**	**115.32W–.02**	**14–6**		**94**	**0-38**
IDC	I	23 06 47 22.4–2.8	32.02N	115.51W	0	3.7,3.7L		¶15959239
ISCJB	I	23 06 47 23.6–.59	32.25N–.02	115.25W–.02	12–4	3.1b,3.1s		
ECX	I	23 06 47 25.7–.83	32.26N	115.34W	6	4.2L,4.0		
NEIC	I	23 06 47 26.5	32.36N	115.21W	18	4.2L,4.1		
MEX	I	23 06 47 26.5–.62	32.36N	115.21W	18–6	4.1,4.1		

ISC Event type fe.
IDC Error ellipse: s-maj=56.4km s-min=11.1km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=27.6.
ECX Error ellipse: s-maj=1.4km s-min=2.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_s123.23000°,δ75.52000°,λ-26.57000°.
NEIC Event type fe. Felt [II] at Mexicali. Also felt at San Felipe and Tijuana. Felt [II] at Yuma, Arizona. Also felt at Wellton. Felt at San Luis Rio Colorado, Sonora and at Calexico, Carlsbad, Chula Vista, El Cajon, El Centro, Imperial, Lakeside, La Mesa, Poway, Ramona, San Diego and Santee, California. After ECX.
MEX Error ellipse: s-maj=3.5km s-min=4.6km az=-1.0.

(274) Southern Sumatera

ISC	**I**	**23 09 05 34.9–.35**	**4.23S–.03**	**102.16E–.04**	**49–2**	**5.3b,4.6s**	**951**	**1-165**
BJI	I	23 09 05 27.7	4.90S	102.18E	51	5.3b,5.1b		¶15959242
MOS	I	23 09 05 32.2–1.3	4.03S	102.28E	33	5.5b,4.4s		
KLM	I	23 09 05 33.4	4.56S	101.87E	52	6.1s,5.2b		
DJA	I	23 09 05 35.6–.30	4S–3.0	102E–2.0	49–4	5.7,5.6		
IDC	I	23 09 05 35.5–1.1	4.10S	102.23E	52–8	5.0,4.7		
ISCJB	I	23 09 05 35.4–.35	4.23S–.02	102.20E–.02	68–2	5.1b,4.7		
GCMT	I	23 09 05 35.9–.10	4.40S	102.06E	50–0	5.4W,4.7		
NEIC	I	23 09 05 35.9–.53	4.25S	102.14E	56–4	5.4b,4.7		

ISC Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=4.4km az=112.0.
IDC Error ellipse: s-maj=13.0km s-min=6.3km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.8km az=44.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c167; s91,c161; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.05±.02 $M_{\theta\theta}$-0.53±.02; $M_{\phi\phi}$-0.52±.02; $M_{r\theta}$0.65±.02; $M_{\theta\phi}$0.66±.01; $M_{\phi r}$-0.34±.02; Best double couple: NP1:ϕ_s125.00000°,δ62.00000°,λ79.00000°. NP2:ϕ_s326.00000°,δ30.00000°,λ109.00000°. Principal axes: T 1.2900,Plg71.0000°,Azm11.0000°; N 0.0960,Plg9.0000°,Azm130.0000° ; P -1.3880,Plg16.0000°,Azm222.0000° $M_0$1.33900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=48.0. Felt [IV] at Bengkulu and [II] at Painan.

(135) Near coast of central Chile

ISC	**I**	**23 09 58 58.2–.63**	**35.04S–.04**	**72.51W–.05**	**25–4**	**5.1b,4.2s**	**569**	**1-173**
GUC	I	23 09 58 55.5–.67	35.03S	72.57W	26–3	5.4L,4.2s		¶15959243
ISCJB	I	23 09 58 56.8–.95	35.03S–.03	72.53W–.04	26–6	5.0b,4.1s		
MOS	I	23 09 58 57.8–.99	35.03S	72.44W	33	5.1b,4.1s		
NEIC	I	23 09 58 59.9–.16	35.00S	72.38W	35	5.4L,5.1b		
BJI	I	23 09 58 59.2	34.90S	72.30W	20	5.4s,5.2		
IDC	I	23 09 58 59.0–.56	35.01S	72.48W	30–3	4.8L,4.5		

ISC Event type fe.
GUC Error ellipse: s-maj=2.0km s-min=3.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=10.4.
MOS Error ellipse: s-maj=18.9km s-min=8.1km az=101.9.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=62.0. Felt [V] at Constitucion; [IV] at Cauquenes, Cobquecura, Empedrado, Longavi, Molina, Parral, Retiro, Rio Claro, San Javier and Talca; [III] at Chanco, Curico, Paredones and Santiago. Felt in much of central Chile from Vina del Mar to Tome.
IDC Error ellipse: s-maj=19.3km s-min=13.2km az=68.0.

(122) Near coast of northern Chile

ISC	**I**	**23 10 06 45.0–.71**	**25.62S–.07**	**70.3W–.10**	**49**	**4.7b**	**38**	**1-150**
ISCJB	I	23 10 06 43.2–.71	25.65S–.05	70.2W–.10	49	4.4b		¶16022177
NEIC	I	23 10 06 43.6–.64	25.72S	70.17W	35	4.2b,4.1L		
IDC	I	23 10 06 46.1–1.1	25.56S	70.17W	56–5	4.6,4.4		
GUC	I	23 10 06 50.6–.49	24.65S	71.21W	13–19	4.1L,4.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.1km az=170.5.
NEIC Event type fe. Error ellipse: s-maj=20.9km s-min=10.9km az=106.0. Felt [III] at Taltal.
IDC Error ellipse: s-maj=31.5km s-min=20.8km az=21.0.
GUC Error ellipse: s-maj=6.0km s-min=7.6km az=-1.0.

(42) Western Arizona

ISC	**I**	**23 12 16 47.4–.69**	**34.82N–.03**	**112.10W–.02**	**10**		**85**	**1-28**
IDC	I	23 12 16 46.0–1.3	34.74N	112.21W	0	3.4,3.3		¶15977979
NEIC	I	23 12 16 47.2–.27	34.84N	112.09W	5	3.6L,3.3		

ISC Event type fe.
IDC Error ellipse: s-maj=22.9km s-min=10.7km az=46.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=155.0. Felt [III] at Sedona. Also felt at Mayer and Prescott.

(265) Minahassa Peninsula, Sulawesi

ISC	**I**	**23 13 26 51.3–.40**	**1.08N–.05**	**121.00E–.05**	**29**	**4.6b,3.4s**	**121**	**1-118**
IDC	I	23 13 26 46.2–.60	1.01N	120.99E	0	4.3,4.3		¶16020109
BJI	I	23 13 26 49.2	0.56N	121.11E	63	4.9b,4.8b		
ISCJB	I	23 13 26 50.6–.22	1.18N–.03	120.89E–.03	29	4.5b,3.4s		
DJA	I	23 13 26 51.9–.20	1N–3.0	121E–2.0	10	7.8,5.3b		
NEIC	I	23 13 26 54.4–.56	0.99N	120.84E	65–6	4.5b,5.3b		
KLM	I	23 13 26 56.0	1.30N	120.90E	63	5.6s,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=12.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=139.1.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=51.0. Felt [III] at Tolitoli.

(122) Near coast of northern Chile

ISC	**I**	**23 16 02 43.1–.31**	**19.95S–.03**	**70.46W–.04**	**31–1**	**5.0b,4.1s**	**628**	**0-173**
SCB	I	23 16 02 23.7–.52	20.75S	71.62W	33	4.9L,4.1s		¶15959253

ISCJB	I	23 16 02 41.7–.15	19.85S–.03	70.45W–.04	32	5.0b,4.2s	
MOS	I	23 16 02 42.9–1.4	19.74S	70.41W	33	5.2b,4.2s	
NEIC	I	23 16 02 43.9–.19	19.88S	70.40W	32	5.1b,4.9W	
IDC	I	23 16 02 43.4–.37	19.82S	70.34W	27–2	4.5,4.5	
GCMT	I	23 16 02 43.9–.60	19.95S	71.10W	37–2	5.0W,4.5	
GUC	I	23 16 02 43.7–.70	20.01S	70.42W	30	4.9W,4.3L	
BJI	I	23 16 02 45.0	19.90S	70.40W	33	5.4s,5.3b	

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=57.5km s-min=10.2km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.7km az=142.5.
MOS Error ellipse: s-maj=16.3km s-min=7.4km az=113.2.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.0km az=54.0. Felt [III] at Alto Hospicio and Iquique; [II] at Cuya, Huara, Pisagua and Pozo Almonte. Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ22.00000°,λ116.00000°. NP2:ϕ_s160.00000°,δ70.00000°,λ80.00000°. Principal axes: T 1.2700,Plg64.0000°,Azm54.0000°; N 0.0000,Plg9.0000°,Azm163.0000°; P -1.2700,Plg24.0000°,Azm258.0000°
IDC Error ellipse: s-maj=14.7km s-min=12.0km az=51.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c41; s58,c79; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.64±.25 $M_{\theta\theta}$0.13±.17; $M_{\phi\phi}$-2.77±.18; $M_{r\theta}$0.98±.18; $M_{\theta\phi}$1.78±.13; $M_{\phi r}$-1.70±.24; Best double couple: NP1:ϕ_s151.00000°,δ61.00000°,λ86.00000°. NP2:ϕ_s339.00000°,δ29.00000°,λ97.00000°. Principal axes: T 3.2110,Plg74.0000°,Azm51.0000°; N 0.9690,Plg4.0000°,Azm153.0000°; P -4.1770,Plg16.0000°,Azm244.0000° $M_0$3.69400×10^{16}
GUC Error ellipse: s-maj=1.9km s-min=4.4km az=-1.0.

(181) Fiji Islands region

ISC	**I**	**23 19 15 42.2–.26**	**20.43S–.03**	**176.22W–.03**	**231–2**	**5.7b**	**1884**	**6-177**
MOS	I	23 19 15 35.5–1.0	20.20S	176.26W	178	5.7b,4.3s		¶16019253
ISCJB	I	23 19 15 36.9–.70	20.34S–.02	176.27W–.02	191–6	5.8b,4.3s		
IDC	I	23 19 15 39.5–.76	20.31S	176.20W	202–6	5.8,5.4		
BJI	I	23 19 15 40.0	19.82S	176.25W	208	5.6b,5.6b		
GCMT	I	23 19 15 42.7–.10	20.43S	175.73W	235–0	5.8W,5.6b		
NEIC	I	23 19 15 42.7–.10	20.34S	176.29W	236	5.9W,5.7b		

ISC Event type fe.
MOS Error ellipse: s-maj=7.2km s-min=6.1km az=65.4.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=154.0.
IDC Error ellipse: s-maj=8.6km s-min=6.8km az=159.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c262; s138,c392;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80±.05 $M_{\theta\theta}$0.83±.06; $M_{\phi\phi}$-0.02±.06; $M_{r\theta}$-1.62±.05; $M_{\theta\phi}$-0.52±.06; $M_{\phi r}$-7.19±.05; Best double couple: NP1:ϕ_s12.00000°,δ89.00000°,λ-88.00000°. NP2:ϕ_s129.00000°,δ3.00000°,λ-153.00000°. Principal axes: T 6.8790,Plg44.0000°,Azm100.0000°; N 1.0070,Plg2.0000°,Azm192.0000°; P -7.8860,Plg46.0000°,Azm285.0000° $M_0$7.38200×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=140.0. Felt at Nausori, Suva and Tubou. Also felt at Nuku'alofa, 'Ohonua and Vaini, Tonga. Moment Tensor Solution. s48 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.32 $M_{\theta\theta}$0.88 $M_{\phi\phi}$2.44 $M_{r\theta}$-1.79 $M_{\theta\phi}$0.18 $M_{\phi r}$-7.30 Best double couple: NP1:ϕ_s13.00000°,δ80.00000°,λ-89.00000°. NP2:ϕ_s186.00000°,δ11.00000°,λ-97.00000°. Principal axes: T 7.6100,Plg35.0000°,Azm102.0000°; N 0.8900,Plg1.0000°,Azm193.0000°; P -8.4900,Plg55.0000°,Azm285.0000° $M_0$8.10000×10^{17}

(73) El Salvador

ISC	**I**	**24 01 14 46.1–1.5**	**13.5N–.30**	**90.2W–.20**	**58**	**4.1b**	**11**	**4-52**
IDC	I	24 01 14 43.3–2.0	14.08N	89.70W	0	4.3,4.3s		¶16020110
NEIC	I	24 01 14 47.5–1.0	13.90N	89.84W	35	4.0,3.5b		
MEX	I	24 01 14 47.3–.31	12.78N	91.25W	15	4.1,3.5b		

ISC Event type fe.
IDC Error ellipse: s-maj=54.9km s-min=20.5km az=33.0.
NEIC Event type fe. Error ellipse: s-maj=34.4km s-min=9.9km az=216.0. Felt [II] at Ahuachapan.
MEX Error ellipse: s-maj=8.8km s-min=17.0km az=-1.0.

(383) Northwestern Balkan Peninsula

ISC	**I**	**24 01 26 37.8–.93**	**43.20N–.02**	**18.68E–.02**	**2–6**	**4.2b,4.1s**	**909**	**0-91**
BJI	I	24 01 26 35.7	43.48N	18.59E	4	4.2b,4.1s		¶15963053
ISCJB	I	24 01 26 36.5–.25	43.217N–.01	18.65E–.01	3–2	4.1b,4.0s		
SKO	I	24 01 26 37.5	43.33N	18.72E	1	4.1b,4.0s		
BEO	I	24 01 26 37.8–.32	43.18N	18.68E	0	4.2,4.0s		
ROM	I	24 01 26 37.8–.27	43.14N	18.86E	10	4.4L,4.0s		
LDG	I	24 01 26 37.9–.07	43.20N	18.80E	10	4.6L,4.0s		
IDC	I	24 01 26 37.7–.58	43.20N	18.66E	0	4.0,3.9L		
MOS	I	24 01 26 38.0–1.3	43.15N	18.45E	22	4.3b,3.9L		
PDG	I	24 01 26 38.2–.25	43.15N	18.72E	7–0	4.2,4.2L		
NEIC	I	24 01 26 38.3	43.15N	18.73E	6	4.4L,4.2L		
CSEM	I	24 01 26 38.4–.07	43.20N	18.66E	5	4.2b,4.2L		
THE	I	24 01 26 39.6	43.12N	18.65E	2–2	4.4L,4.2L		
PRU	I	24 01 26 40.7	43.21N	18.77E	10	3.9,4.2L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=145.8.
BEO Event type ke.
ROM Event type ke. Error ellipse: s-maj=5.0km s-min=1.8km az=75.0.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=1.6km az=32.0.
IDC Error ellipse: s-maj=10.0km s-min=8.5km az=38.0.
MOS Error ellipse: s-maj=4.8km s-min=2.8km az=114.2.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
NEIC Event type fe. Felt at Podgorica. Also felt at Mostar, Bosnia and Herzegovina. After PDG.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=43.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=257.0.

(715) Tajikistan

ISC	**I**	**24 02 45 30.5–.23**	**38.40N–.02**	**72.85E–.02**	**102–1**	**6.0b**	**2163**	**2-152**
BJI	I	24 02 45 26.6	38.40N	72.70E	90	5.7b,5.7s		¶15959504
SOME	I	24 02 45 26.5	39.10N	72.70E	20	5.5s,5.7s		
ISCJB	I	24 02 45 28.0–.22	38.40N–.01	72.82E–.01	89–1	5.9b,5.7s		
KRNET	I	24 02 45 27.8–.10	38.63N	72.81E		6.6b,5.7s		
IDC	I	24 02 45 29.4–.95	38.32N	72.84E	97–8	5.7,5.4		
NNC	I	24 02 45 29.8–1.9	38.50N	72.58E	154–26	6.2,5.8b		
MOS	I	24 02 45 29.8–.89	38.49N	72.85E	108	6.2b,5.4s		
NEIC	I	24 02 45 30.0–.00	38.46N	72.75E	110	6.2b,5.4s		
NEIC	I	24 02 45 31.5–.10	38.41N	72.79E	110	6.0W,6.0W		
GCMT	I	24 02 45 31.5–.10	38.50N	72.78E	119–0	6.1W,6.0W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.5km az=176.0.
IDC Error ellipse: s-maj=5.6km s-min=4.9km az=2.0.
NNC Event type se. Error ellipse: s-maj=19.2km s-min=11.3km az=170.0.
MOS Error ellipse: s-maj=4.4km s-min=3.1km az=117.7.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ82.00000°,λ-53.00000°. NP2:ϕ_s126.00000°,δ37.00000°,λ-167.00000°. Principal axes: T 1.1600,Plg28.0000°,Azm87.0000°; N 0.4500,Plg37.0000°,Azm200.0000°; P -1.6000,Plg41.0000°,Azm330.0000°
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=185.0. Felt [II] at Dushanbe. Also felt at Istaravshan and Khujand. Felt [III] at Tashkent, Uzbekistan. Felt [III] at Islamabad, Pakistan. Also felt at Abbottabad, Lahore and Peshawar. Felt [II] at Delhi, India. Also felt at Kargil, Ludhiana, Noida and Srinagar. Felt at Kunduz, Afghanistan; Kashi, China; Shymkent, Kazakhstan; Osh, Kyrgyzstan. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ74.00000°,λ-63.00000°. NP2:ϕ_s132.00000°,δ31.00000°,λ-149.00000°. Principal axes: T 0.9800,Plg25.0000°,Azm84.0000°; N 0.3900,Plg26.0000°,Azm187.0000°; P -1.3700,Plg53.0000°,Azm317.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s195.00000°,δ15.00000°,λ-90.00000°. NP2:ϕ_s15.00000°,δ75.00000°,λ-90.00000°. Principal axes: T Plg30.0000°,Azm105.0000°; N Plg0.0000°,Azm0.0000°; P Plg60.0000°,Azm285.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c302; s140,c437;Duration: 2s6 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.27±.01 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.96±.01; $M_{r\theta}$-0.89±.01; $M_{\theta\phi}$-0.56±.01; $M_{\phi r}$-0.79±.01; Best double couple: NP1:ϕ_s27.00000°,δ81.00000°,λ-47.00000°. NP2:ϕ_s126.00000°,δ44.00000°,λ-167.00000°. Principal axes: T 1.3610,Plg24.0000°,Azm85.0000°; N 0.3670,Plg43.0000°,Azm199.0000°; P -1.7280,Plg38.0000°,Azm335.0000° $M_0$1.54500×10^{18}

(162) South Island

WEL	**I**	**24 20 13 51.6–.10**	**43.55S**	**172.66E**	**10–0**	**4.0L**		
NEIC	I	24 20 13 52.0	43.55S	172.64E	7	4.0L		¶15963821

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

NEIC Event type se. After WEL.

(277) Jawa

ISC	**I**	**24 21 00 06.4–.86**	**8.06S–.06**	**107.88E–.04**	**66–7**	**4.3b**	**75**	**1-146**
ISCJB	I	24 21 00 05.5–.39	8.08S–.05	107.86E–.03	81–3	4.1b		¶16135738
DJA	I	24 21 00 05.7–.50	8S–4.0	108E–2.0	22–5	4.7b,4.6		
NEIC	I	24 21 00 06.1–.70	7.99S	107.75E	69–6	4.7b,4.6		
IDC	I	24 21 00 13.4–.82	7.73S	108.06E	126–5	4.0,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.3km az=19.5.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=8.0km az=221.0. Felt [III] at Pangandaran.
IDC Error ellipse: s-maj=28.4km s-min=11.1km az=50.0.

(662) Sakhalin Island

ISC	**I**	**24 21 39 22.8–1.2**	**50.74N–.03**	**143.81E–.04**	**16–7**	**4.6b,3.6s**	**228**	**1-151**
MOS	I	24 21 39 20.8–.85	50.78N	143.82E	13	4.6b,3.6s		¶15972744
ISCJB	I	24 21 39 20.3–.66	50.76N–.02	143.83E–.04	9–4	4.5b,3.6s		
IDC	I	24 21 39 20.5–.44	50.80N	143.78E	0	4.4,4.4		
SKHL	I	24 21 39 21.5–.80	50.73N	143.70E	11–2	4.9b,4.4s		
BJI	I	24 21 39 23.2	50.98N	143.83E	33	4.8b,4.6b		
NEIC	I	24 21 39 25.4–1.3	50.79N	143.75E	32–10	4.6b,4.6b		

ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=8.0km s-min=4.5km az=96.8. Felt (III) at Aleksandrovsk-Sakhalinskiy, (II-III) at Tymovskoye. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=175.7.
IDC Error ellipse: s-maj=12.3km s-min=9.8km az=138.0.
SKHL Event type fe. Felt (III) at Aleksandrovsk-Sakhalinskiy, (II-III) Tymovskoye.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=134.0. Felt [III] at Aleksandrovsk-Sakhalinskiy and Tymovskoye.

(45) California-Baja California border region

ISC	**I**	**25 00 55 35.4–.93**	**32.86N–.02**	**115.52W–.02**	**18–5**		**74**	**0-4**
ISCJB	I	25 00 55 35.5–.28	32.85N–.02	115.50W–.02	25–3			¶16328501
NEIC	I	25 00 55 36.2	32.87N	115.51W	15	3.1L,3.0L		
ECX	I	25 00 55 36.7–.50	32.88N	115.53W	10	3.1L,3.0		
MEX	I	25 00 55 36.8–.46	32.92N	115.36W	17–41	3.9,3.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=162.6.
NEIC Event type fe. Felt at El Centro and Imperial. After PAS.
ECX Error ellipse: s-maj=1.2km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=20.4km s-min=34.8km az=-1.0.

(162) South Island

WEL	**I**	**25 01 42 06.2–.06**	**43.64S**	**172.46E**	**5**	**3.7L**		
								¶15963822

WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(706) Northern Sumatera

ISC	**I**	**25 03 09 00.8–.77**	**0.33N–.04**	**98.48E–.04**	**61–7**	**4.5b**	**157**	**0-145**
BJI	I	25 03 08 49.7	0.58S	98.44E	44	4.9b,4.7b		¶15966132
IDC	I	25 03 08 53.5–.64	0.43N	98.55E	0	4.9L,4.4		
MOS	I	25 03 08 56.7–1.2	0.53N	98.63E	33	4.8b,4.4		
ISCJB	I	25 03 08 57.5–.47	0.26N–.03	98.50E–.04	51–4	4.4b,3.8s		
DJA	I	25 03 08 58.9–.30	0N–2.0	98E–3.0	69–5	5.5b,4.9		
KLM	I	25 03 09 00.7	0.42N	98.43E	54	5.9s,4.5b		
NEIC	I	25 03 09 00.9–.79	0.45N	98.56E	53–6	4.7b,4.5b		

ISC Event type fe.
IDC Error ellipse: s-maj=24.0km s-min=14.8km az=51.0.
MOS Error ellipse: s-maj=13.6km s-min=7.0km az=101.6.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.6km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=5.3km az=222.0. Felt [II] at Natal, Sumatra.

(228) Near east coast of eastern Honshu

ISC	**I**	**25 05 24 41.2–.40**	**35.21N–.03**	**141.24E–.03**	**23–2**	**5.6b,5.1s**	**1454**	**1-162**
NIED	I	25 05 24 00	35.20N	141.40E	23	5.2W,5.1s		¶15963195
IDC	I	25 05 24 37.6–.37	35.16N	141.15E	0	5.5,5.5		
BJI	I	25 05 24 37.4	35.26N	141.27E	21	5.3s,5.1		
JMA	I	25 05 24 39.2–.20	35.18N	141.41E	39–3	5.3,5.1		
ISCJB	I	25 05 24 40.5–.48	35.12N–.02	141.16E–.02	27–3	5.5b,5.0s		
NEIC	I	25 05 24 40.1–.10	35.13N	141.12E	14	5.6b,5.1W		
MOS	I	25 05 24 41.8–.84	35.26N	141.06E	33	5.8b,5.1s		
GCMT	I	25 05 24 41.1–.10	35.10N	141.22E	19–0	5.3W,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ37.00000°,λ131.00000°. NP2:ϕ_s61.00000°,δ63.00000°,λ64.00000°. $M_0$7.07000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=10.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=157.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=147.0. Felt at Narita and Yokohama. Recorded [2 JMA] in Chiba and Saitama; [1 JMA] in Ibaraki, Kanagawa, Miyagi, Niigata and Tokyo. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}3.29 $M_{\theta\theta}$-3.62 $M_{\phi\phi}$0.32 $M_{r\theta}$5.06 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.56 Best double couple: NP1:ϕ_s271.00000°,δ17.00000°,λ106.00000°. NP2:ϕ_s74.00000°,δ73.00000°,λ85.00000°. Principal axes: T 6.1800,Plg61.0000°,Azm337.0000°; N 0.3400,Plg5.0000°,Azm76.0000°; P -6.5200,Plg28.0000°,Azm168.0000° $M_0$6.40000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=110.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s76,c126; s97,c197;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.65±.02 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.05±.01; $M_{r\theta}$0.77±.04; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$0.02±.03; Best double couple: NP1:ϕ_s88.00000°,δ69.00000°,λ92.00000°. NP2:ϕ_s261.00000°,δ21.00000°,λ84.00000°. Principal axes: T 0.9920,Plg66.0000°,Azm2.0000°; N 0.0590,Plg2.0000°,Azm267.0000°; P -1.0500,Plg24.0000°,Azm176.0000° $M_0$1.02100×10^{17}

(76) Off coast of central America

ISC	**I**	**25 06 18 45.0–.96**	**12.17N–.06**	**88.66W–.05**	**44–8**	**4.7b**	**278**	**1-149**
IDC	I	25 06 18 39.8–.77	12.40N	88.38W	0	4.2,4.0		¶15964368
CASC	I	25 06 18 42.8–1.1	12.07N	88.74W	36–999	5.0b,3.6L		
ISCJB	I	25 06 18 43.8–.55	12.17N–.04	88.63W–.04	54–3	4.6b,4.0s		
NEIC	I	25 06 18 46.0–.92	12.23N	88.55W	48–9	5.0b,4.0s		

ISC Event type fe.
IDC Error ellipse: s-maj=30.4km s-min=13.9km az=57.0.
CASC Error ellipse: s-maj=11.4km s-min=6.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=3.4km az=36.5.
NEIC Event type fe. Error ellipse: s-maj=12.7km s-min=6.6km az=47.0. Felt [II] at San Salvador.

(7) Andreanof Islands

ISC	**I**	**25 07 46 33.6–.51**	**51.66N–.05**	**176.19W–.03**	**52–3**	**5.3b,4.2s**	**1157**	**0-156**
IDC	I	25 07 46 26.2–.36	51.72N	176.26W	0	4.9,4.9L		¶15963198
MOS	I	25 07 46 30.1–1.0	51.76N	176.24W	33	5.3b,4.1s		
BJI	I	25 07 46 30.7	51.96N	176.16W	47	5.3b,5.1b		
GCMT	I	25 07 46 31.5–.40	51.45N	176.07W	40–1	5.0W,5.1b		
NEIC	I	25 07 46 31.5	51.42N	176.09W	34	5.3b,5.2L		
ISCJB	I	25 07 46 33.4–.25	51.73N–.03	176.15W–.02	65–2	5.2b,5.2L		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c73; s71,c102;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.01±.14 $M_{\theta\theta}$-2.77±.10; $M_{\phi\phi}$-0.24±.10; $M_{r\theta}$1.55±.11; $M_{\theta\phi}$-1.12±.08; $M_{\phi r}$1.34±.09; Best double couple: NP1:ϕ_s58.00000°,δ62.00000°,λ79.00000°. NP2:ϕ_s261.00000°,δ30.00000°,λ110.00000°. Principal axes: T 3.6890,Plg71.0000°,Azm304.0000°; N 0.0590,Plg10.0000°,Azm63.0000°; P -3.7530,Plg16.0000°,Azm156.0000° $M_0$3.72100×10^{16}
NEIC Event type fe. Felt on Adak. After AEIC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**I**	**25 08 24 26.9–1.1**	**35.58N–.05**	**140.03E–.06**	**76–8**		**28**	**0-59**
IDC	I	25 08 24 23.9–1.5	34.88N	137.69E	0	4.0L,3.9		¶600521957
ISCJB	I	25 08 24 25.8–.63	35.56N–.04	140.04E–.06	81–5	3.7b,3.9		
JMA	I	25 08 24 26.5–.20	35.63N	140.05E	71–2	3.4,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=54.0km s-min=19.4km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.7km az=145.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(243) Taiwan region

ISC	**I**	**25 11 36 13.4–1.0**	**23.96N–.02**	**122.42E–.02**	**7–7**	**4.3b,3.6s**	**188**	**1-83**
NIED	I	25 11 36 00	24.00N	122.40E	5	4.6W,3.6s		¶16135778
IDC	I	25 11 36 11.9–.95	24.10N	122.63E	0	4.2,4.1b		
BJI	I	25 11 36 13.0	23.99N	122.37E	6	4.3b,4.2s		
JMA	I	25 11 36 13.9–.30	23.97N	122.41E	13–5	4.5,4.2s		

NEIC I 25 11 36 13.5–1.1 23.98N 122.42E 8–7 4.6L,4.4b
ISCJB I 25 11 36 13.2–.42 23.98N–.02 122.45E–.01 7–3 4.1b,3.6s
TAP I 25 11 36 14.3 24.03N 122.43E 19–0 4.5L,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ14.00000°,λ28.00000°. NP2:ϕ_s277.00000°,δ84.00000°,λ102.00000°. $M_0$9.50000×10^{15}
IDC Error ellipse: s-maj=37.2km s-min=18.4km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.3km az=135.0. Recorded [2 TAP] in Yilan and [1 TAP] in Hualien.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=164.9.
TAP C.

(327) Lake Baykal region

ISC I 25 11 48 44.9–.42 53.47N–.02 109.07E–.02 7–3 3.6b 115 1-80
BJI I 25 11 48 42.8 53.91N 108.85E 18 3.9s,3.6 **¶16009477**
MOS I 25 11 48 44.5–1.0 53.50N 109.06E 10 4.3b,3.6
IDC I 25 11 48 44.1–.83 53.41N 108.94E 0 3.7,3.6
BYKL I 25 11 48 46.8–.24 53.51N 108.99E 3.7,3.6
ISC Event type se.
MOS Event type fe. Error ellipse: s-maj=9.0km s-min=6.2km az=61.6. Felt (III-IV) at Ust'-Barguzin, (II) at Suvo. Moment Tensor Solution.
IDC Error ellipse: s-maj=22.6km s-min=19.6km az=159.0.
BYKL Event type se. FELT I=IV MSK at Ust-Barguzin and II at Suvo.

(127) Chile-Argentina border region

ISC I 25 18 31 59.4–.64 33.16S–.05 70.36W–.04 101–5 4.0b 56 0-155
ISCJB I 25 18 31 58.5–.34 33.21S–.04 70.34W–.04 108–2 4.1b **¶16135799**
NEIC I 25 18 31 58.6–.68 33.13S 70.24W 91–6 4.9b
SJA I 25 18 31 58.8–.90 33.20S 70.33W 97–6 4.1L,3.9W
GUC I 25 18 31 59.0–.40 33.14S 70.37W 102–3 4.2L,3.9W
IDC I 25 18 31 59.7–3.0 33.07S 70.21W 98–26 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=139.6.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=5.4km az=85.0. Felt [II] at Rancagua.
SJA Error ellipse: s-maj=4.8km s-min=3.8km az=-1.0.
GUC Error ellipse: s-maj=2.7km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=24.2km az=84.0.

(460) Wyoming

ISC I 25 21 06 44.6–.71 43.94N–.04 105.29W–.04 0 44 1-19
IDC I 25 21 06 43.7–1.7 43.92N 105.41W 0 3.5,3.2 **¶16135805**
ISCJB I 25 21 06 44.2–.41 44.01N–.03 105.28W–.04 0 3.5,3.2
NEIC I 25 21 06 45.7–.64 43.97N 105.28W 0 3.5L,3.2
ISC Event type sm.
IDC Error ellipse: s-maj=47.4km s-min=9.1km az=148.0.
ISCJB Event type fm. Error ellipse: s-maj=4.6km s-min=4.0km az=14.0.
NEIC Event type fm. Error ellipse: s-maj=8.9km s-min=6.9km az=211.0. 40 km [25 miles] SSE of Gillette. Suspected Mining explosion.

(162) South Island

WEL I 26 03 35 59.3–.08 43.57S 171.92E 3 3.5L
¶15972640
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(457) Eastern Idaho

ISC I 26 05 10 09.6–.80 42.54N–.02 111.58W–.03 4–7 127 0-20
IDC I 26 05 10 08.8–.74 42.72N 111.72W 0 3.3,3.1 **¶15968995**
NEIC I 26 05 10 11.1 42.42N 111.50W 6 3.7L,3.1
ISC Event type fe.
IDC Error ellipse: s-maj=12.6km s-min=5.4km az=162.0.
NEIC Event type fe. Felt [III] at Grace and Preston; [II] at Bern, Lava Hot Springs, Montpelier and Soda Springs. Also felt at Bancroft, Downey, Paris, Pocatello and Thatcher. After SLC.

(301) South China Sea

ISC I 26 07 24 27.7–.34 9.74N–.04 108.23E–.05 10 4.7s,4.6b 161 2-149
BJI I 26 07 24 23.8 9.52N 108.05E 10 5.3s,4.9 **¶15966147**
IDC I 26 07 24 25.2–.54 9.81N 108.21E 0 4.4,4.4s
ISCJB I 26 07 24 25.8–.24 9.81N–.03 108.19E–.04 10 4.7s,4.4b
MOS I 26 07 24 26.8–1.3 9.81N 108.32E 21 4.9b,4.8s
NEIC I 26 07 24 27.5–.28 9.89N 108.24E 10 4.7b,4.8s
DJA I 26 07 24 31.2–1.1 10N–13 108E–4.0 10 5.8b,5.4
GCMT I 26 07 24 31.1–.20 9.96N 108.22E 12 5.0W,5.4
ISC Event type fe.
IDC Error ellipse: s-maj=19.4km s-min=11.7km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.3km az=170.4.
MOS Error ellipse: s-maj=11.2km s-min=6.2km az=115.5.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=64.0. Felt [II] at Ho Chi Minh City and Phan Thiet, Vietnam. Also felt at Bac Lieu, Nha Trang and Vung Tau.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c51; s87,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.02±.09 $M_{\theta\theta}$-1.57±.07; $M_{\phi\phi}$2.59±.09; $M_{r\theta}$-0.17±.22; $M_{\theta\phi}$-2.84±.07; $M_{\phi r}$-1.21±.23; Best double couple: NP1:ϕ_s16.00000°,δ85.00000°,λ-21.00000°. NP2:ϕ_s108.00000°,δ69.00000°,λ-174.00000°. Principal axes: T 4.2230,Plg11.0000°,Azm64.0000°; N -0.9760,Plg68.0000°,Azm183.0000° ; P -3.2470,Plg19.0000°,Azm330.0000° $M_0$3.73500×10^{16}

(259) Mindanao

ISC I 26 14 10 47.5–1.1 9.27N–.03 125.45E–.05 11–8 3.5b 26 0-95
MAN I 26 14 10 47 9.26N 125.43E 1 4.8b,3.7L **¶17191039**
IDC I 26 14 10 53.7–4.2 8.42N 123.84E 48–39 4.2L,3.6
ISC Event type fe.
MAN Event type fe. INTENSITY II - BUTUAN CITY AGUSAN DEL NORTE.
IDC Error ellipse: s-maj=59.5km s-min=22.1km az=77.0.

(706) Northern Sumatera

ISC I 26 15 42 29.7–.30 2.17N–.03 96.81E–.03 24–1 5.9s,5.7b 1275 1-175
IDC I 26 15 42 25.3–.34 2.22N 96.88E 0 5.7,5.7s **¶601990108**
ISCJB I 26 15 42 26.8–.57 2.24N–.02 96.78E–.02 12–3 5.8s,5.6b
BJI I 26 15 42 27.0 2.18N 96.74E 24 6.1s,5.9
GCMT I 26 15 42 29.6–.10 1.87N 96.52E 23–0 6.0W,5.9
KLM I 26 15 42 29.5 2.18N 96.60E 38 6.5s,6.2b
MOS I 26 15 42 29.4–1.5 2.28N 96.89E 33 5.9b,5.7s
NEIC I 26 15 42 29.6–.14 2.21N 96.83E 23 6.1W,6.0W
DJA I 26 15 42 30.6–.10 2N–2.0 97E–2.0 10 6.1,6.0b
NEIC I 26 15 42 30.0–.00 2.20N 96.82E 23 6.1,6.0b
NEIC I 26 15 42 56.3–.00 1.81N 96.22E 27 6.1,6.0b
ISC Event type fe.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=42.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c262; s125,c373;Duration: 2ŝ5 Moment tensor: Scale 10^{18}Nm; M_{rr}0.75±.01 $M_{\theta\theta}$-0.43±.01; $M_{\phi\phi}$-0.32±.01; $M_{r\theta}$0.66±.02; $M_{\theta\phi}$0.38±.01; $M_{\phi r}$-0.79±.02; Best double couple: NP1: ϕ_s138.00000°,δ72.00000°,λ95.00000°. NP2:ϕ_s304.00000°,δ19.00000°,λ76.00000°. Principal axes: T 1.2790,Plg63.0000°,Azm55.0000°; N -0.0070,Plg4.0000°,Azm317.0000° ; P -1.2720,Plg27.0000°,Azm225.0000° $M_0$1.27500×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=3.8km az=114.1.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=34.0. Felt at Medan, Sumatra. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 5 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{17}Nm; M_{rr}5.68 $M_{\theta\theta}$-2.54 $M_{\phi\phi}$-3.15 $M_{r\theta}$5.42 $M_{\theta\phi}$-0.69 $M_{\phi r}$-3.63 Best double couple: NP1:ϕ_s124.00000°,δ75.00000°,λ90.00000°. NP2:ϕ_s305.00000°,δ15.00000°,λ91.00000°. Principal axes: T 9.3900,Plg60.0000° ,Azm34.0000°; N -3.6000,Plg0.0000°,Azm124.0000°; P -5.8000,Plg30.0000°,Azm214.0000° $M_0$8.20000×10^{17}
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{18}Nm; M_{rr}0.39 $M_{\theta\theta}$-0.17 $M_{\phi\phi}$-0.22 $M_{r\theta}$1.04 $M_{\theta\phi}$0.36 $M_{\phi r}$-1.24 Best double couple: NP1:ϕ_s140.00000° ,δ81.00000°,λ91.00000°. NP2:ϕ_s310.00000°,δ8.00000°,λ80.00000°. Principal axes: T 1.6100,Plg53.0000°,Azm52.0000°; N 0.1600,Plg1.0000°,Azm320.0000° ; P -1.7700,Plg37.0000°,Azm229.0000° $M_0$1.70000×10^{18}
NEIC Event type se. Moment Tensor Solution. s27 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63 $M_{\theta\theta}$-0.31 $M_{\phi\phi}$-0.32 $M_{r\theta}$1.05 $M_{\theta\phi}$0.24 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s321.00000° ,δ13.00000°,λ104.00000°. NP2:ϕ_s127.00000°,δ78.00000°,λ87.00000°. Principal axes: T 1.4700,Plg57.0000°,Azm33.0000°; N -0.0800,Plg3.0000°,Azm128.0000° ; P -1.3800,Plg33.0000°,Azm219.0000° $M_0$1.40000×10^{18}

(173) Tonga Islands

ISC I 26 15 58 34.7–.51 18.13S–.09 174.71W–.08 150 4.8b 69 5-149
IDC I 26 15 58 31.6–2.7 18.16S 174.70W 115–26 4.2,4.1 **¶15969003**
BJI I 26 15 58 31.0 18.10S 174.70W 129 5.2b,4.9b
NEIC I 26 15 58 32.4–1.3 18.08S 174.70W 129–13 5.0b,4.9b
ISCJB I 26 15 58 33.8–.33 18.12S–.05 174.77W–.07 150 4.5b,4.9b
ISC Event type fe.
NEIC Event type fe. Felt at Neiafu.
ISCJB Event type fe.

(460) Wyoming

ISC I 26 20 01 11.4–.94 43.67N–.06 104.91W–.05 0 26 1-20
ISCJB I 26 20 01 09.4–.58 43.66N–.06 104.86W–.07 0 **¶17191058**
IDC I 26 20 01 10.0–2.5 43.44N 105.21W 0 3.3,3.1
NEIC I 26 20 01 12.7–.44 43.63N 105.10W 0 2.9L,3.1
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=8.2km s-min=6.8km az=9.4.
IDC Error ellipse: s-maj=53.4km s-min=9.6km az=152.0.
NEIC Event type fm. Error ellipse: s-maj=6.1km s-min=5.4km az=193.0. 75 km [50 miles] WSW of Newcastle. Suspected Mining explosion.

(173) Tonga Islands

ISC I 27 00 59 38.2–.51 15.56S–.05 173.05W–.05 19–1 5.3b,5.3s 954 2-174
IDC I 27 00 59 35.2–.38 15.54S 173.03W 0 5.1s,5.1 **¶15970227**
MOS I 27 00 59 36.1–1.2 15.41S 173.17W 10 5.4b,5.3s
ISCJB I 27 00 59 36.7–2.3 15.62S–.04 173.08W–.03 15–14 5.3s,5.2b
NEIC I 27 00 59 37.9–.65 15.56S 173.12W 16–3 5.4b,5.3s
GCMT I 27 00 59 37.9–.10 15.53S 172.62W 19–0 5.6W,5.3s
BJI I 27 00 59 37.1 15.52S 173.15W 16 5.7b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=15.9km s-min=11.6km az=142.0.
MOS Error ellipse: s-maj=9.3km s-min=7.2km az=67.8.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.7km az=152.4.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.6km az=138.0. Felt at Fagatogo, American Samoa and at Apia, Samoa.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c215; s129,c333;Duration: 1ŝ6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.73±.04 $M_{\theta\theta}$0.36±.03; $M_{\phi\phi}$-3.08±.03; $M_{r\theta}$0.36±.07; $M_{\theta\phi}$0.49±.02; $M_{\phi r}$1.62±.07; Best double couple: NP1:ϕ_s3.00000° ,δ60.00000°,λ102.00000°. NP2:ϕ_s160.00000°,δ32.00000°,λ70.00000°. Principal axes: T 3.2300,Plg72.0000°,Azm302.0000°; N 0.3170,Plg11.0000°,Azm177.0000° ; P -3.5400,Plg14.0000°,Azm84.0000° $M_0$3.38500×10^{17}

(543) Germany

ISC I 27 01 24 16.8–.41 47.55N–.01 9.832E–.01 10 486 0-8
STR I 27 01 24 15.7–.24 47.42N 9.85E 5 3.3L **¶15970230**
ISCJB I 27 01 24 15.1–.13 47.579N–.01 9.88E–.01 10 3.3L
ROM I 27 01 24 17.5–.30 47.56N 9.80E 22–2 3.0L,2.9
CSEM I 27 01 24 17.4–.09 47.52N 9.87E 15 3.7L,2.9
PRU I 27 01 24 17.8 47.56N 9.88E 31 3.7L,2.9
LDG I 27 01 24 17.5–.08 47.59N 9.92E 30 3.2L,3.0
ZUR I 27 01 24 18.1 47.48N 9.84E 31–0 3.3L,3.0
BGR I 27 01 24 18.4–.16 47.53N 9.83E 20–0 3.1L,3.0
VIE I 27 01 24 19.0–.37 47.50N 9.92E 14–2 3.5L,2.8b
ISC Event type ke.
STR Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.4km s-min=1.2km az=172.3.
ROM Event type ke. Error ellipse: s-maj=3.4km s-min=1.9km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=1.0.
LDG Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=158.0.
ZUR Event type ke.
BGR Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=5.0.
VIE Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=153.0. felt 4 ems98 in Northern Bregenzerwald / Vorarlberg.

(159) North Island

WEL I 27 05 19 45.4–.05 38.80S 176.46E 5 3.5L
¶15972645
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Taupo region, maximum reported intensity MM 4.

(353) Southern Iran

ISC I 27 08 38 30.0–.28 28.15N–.02 59.05E–.02 19–1 6.2s,5.7b 2038 2-166
BJI I 27 08 38 23.8 28.34N 58.57E 10 6.5s,6.3 **¶601990163**
IDC I 27 08 38 26.7–.28 28.17N 59.07E 0 6.1,6.1s
OMAN I 27 08 38 27.9–2.2 28.11N 59.16E 3–15 6.1,6.1s
GCMT I 27 08 38 28.7–.10 28.02N 59.02E 14–0 6.2W,6.1s
ISCJB I 27 08 38 28.2–.37 28.15N–.01 58.99E–.01 21–2 6.2s,5.6b
CSEM I 27 08 38 28.7–.06 28.18N 59.03E 12 6.2W,6.1s
NEIC I 27 08 38 28.3–.13 28.20N 59.02E 10 6.2W,6.2s
THR I 27 08 38 28.5–.95 28.15N 59.09E 15 5.8L,6.2s
MOS I 27 08 38 29.2–.96 28.10N 59.04E 33 6.1s,5.8b
SFS I 27 08 38 29.0 28.20N 59.00E 15 5.9L,5.8b
NEIC I 27 08 38 29.0–.00 28.19N 58.97E 15 5.9L,5.8b
TEH I 27 08 38 32.8 28.29N 58.95E 10 6.0L,5.8b
ISC Event type ke.
IDC Error ellipse: s-maj=8.0km s-min=7.4km az=164.0.
OMAN Error ellipse: s-maj=10.1km s-min=4.5km az=110.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c276; s138,c472;Duration: 3ŝ1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.20±.01 $M_{\theta\theta}$2.42±.02; $M_{\phi\phi}$-2.22±.02; $M_{r\theta}$0.20±.03; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$0.50±.04; Best double couple: NP1:ϕ_s221.00000°,δ85.00000°,λ-167.00000°. NP2:ϕ_s129.00000° ,δ77.00000°,λ-5.00000°. Principal axes: T 2.4790,Plg5.0000°,Azm354.0000° ; N -0.1140,Plg76.0000°,Azm242.0000°; P -2.3620,Plg12.0000°,Azm86.0000° $M_0$2.42100×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=19.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=13.0. Felt at Bam. Also felt at Al Fujayrah, United Arab Emirates. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s65 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.14 $M_{\theta\theta}$1.51 $M_{\phi\phi}$-1.36 $M_{r\theta}$0.11 $M_{\theta\phi}$0.47 $M_{\phi r}$0.02 Best double couple: NP1:ϕ_s36.00000°,δ87.00000° ,λ178.00000°. NP2:ϕ_s126.00000°,δ88.00000°,λ3.00000°. Principal axes: T 1.5900,Plg4.0000°,Azm351.0000°; N -0.1500,Plg86.0000°,Azm169.0000° ; P -1.4400,Plg0.0000°,Azm261.0000° $M_0$1.50000×10^{18}
THR Error ellipse: s-maj=5.2km s-min=3.8km az=-1.0.
MOS Error ellipse: s-maj=4.7km s-min=3.0km az=116.2.
SFS Event type ke.
NEIC Event type se. Moment Tensor Solution. s38 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.54 $M_{\theta\theta}$2.51 $M_{\phi\phi}$-1.97 $M_{r\theta}$-0.71 $M_{\theta\phi}$0.24 $M_{\phi r}$-0.15 Best double couple: NP1:ϕ_s221.00000° ,δ84.00000°,λ167.00000°. NP2:ϕ_s312.00000°,δ77.00000°,λ5.00000°. Principal axes: T 2.6800,Plg13.0000°,Azm177.0000°; N -0.6900,Plg76.0000°,Azm19.0000° ; P -1.9900,Plg5.0000°,Azm268.0000° $M_0$2.30000×10^{18}

(103) Colombia

ISC I 27 14 06 47.1–1.1 4.36N–.03 73.75W–.04 4–7 3.7b,3.2s 39 0-149
IDC I 27 14 06 45.8–.96 4.26N 73.70W 0 4.0,3.8 **¶15979824**
ISCJB I 27 14 06 46.9–.62 4.36N–.03 73.68W–.04 10–4 3.5b,3.1s
RSNC I 27 14 06 47.4–1.3 4.37N 73.68W 4–6 4.0L,3.1s
NEIC I 27 14 06 47.0 4.39N 73.68W 4 3.9L,3.1s
ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=10.5km az=36.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=164.1.
RSNC Error ellipse: s-maj=2.9km s-min=5.3km az=-1.0.
NEIC Event type fe. Felt at Bogota, Fomeque, Quetame and Villavicencio. After RSNC.

(159) North Island

ISC I 27 15 02 46.4–.31 38.48S–.03 176.05E–.03 160–2 5.2b 678 0-179
BJI I 27 15 02 41.4 38.90S 176.83E 154 5.5b,5.1b **¶15977996**
IDC I 27 15 02 45.9–.30 38.43S 176.42E 161–2 5.3,4.9
ISCJB I 27 15 02 45.8–.12 38.49S–.02 175.92E–.03 157–1 5.2b,4.9
NEIC I 27 15 02 46.3–.15 38.50S 176.00E 158 5.6W,5.3b
WEL I 27 15 02 47.0–.17 38.41S 176.01E 151–1 6.4L,5.3b
GCMT I 27 15 02 46.3–.10 38.49S 176.03E 159–0 5.6W,5.3b
MOS I 27 15 02 46.7–1.2 38.32S 176.06E 168 5.2b,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=9.3km az=27.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.1km az=17.8.

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=88.0. Felt [IV] in much of the North Island. Felt from Auckland and East Cape to Wellington. Also felt in the Blenheim-Nelson area of the South Island. Moment Tensor Solution. s25 Moment tensor: Scale 10^{17}Nm; M_{rr}0.49 $M_{\theta\theta}$0.07 $M_{\phi\phi}$-0.56 $M_{r\theta}$2.54 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.92 Best double couple: NP1:ϕ_s179.00000° ,δ12.00000°,λ22.00000°. NP2:ϕ_s68.00000°,δ86.00000°,λ101.00000°. Principal axes: T 2.8800,Plg48.0000°,Azm349.0000°; N -0.2000,Plg11.0000°,Azm247.0000° ; P -2.6800,Plg40.0000°,Azm148.0000° M_o2.80000×10^{17}

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt between Coromandel, Otago and Gisborne, maximum reported intensity MM 5. Lots of clear 1st motions here.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s101,c179; s126,c262;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.51±.04 $M_{\theta\theta}$0.33±.04; $M_{\phi\phi}$-0.84±.04; $M_{r\theta}$2.79±.03; $M_{\theta\phi}$-0.54±.04; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s74.00000° ,δ87.00000°,λ105.00000°. NP2:ϕ_s175.00000°,δ16.00000°,λ12.00000°. Principal axes: T 3.2150,Plg46.0000°,Azm359.0000°; N -0.5220,Plg15.0000°,Azm253.0000° ; P -2.6930,Plg40.0000°,Azm150.0000° M_o2.95400×10^{17}

MOS Error ellipse: s-maj=13.1km s-min=10.0km az=126.2.

(39) Central California

ISC	**I**	**27 15 29 45.1–.97**	**35.08N–.02**	**119.00W–.02**	**14–8**		**63**	**0-4**
ISCJB	I	27 15 29 44.7–.42	35.08N–.02	118.99W–.02	5–4			**¶601792961**
NEIC	I	27 15 29 46.2	35.08N	118.99W	20	3.2L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=161.4.
NEIC Event type fe. Felt [II] at Lebec. Also felt at Bakersfield and Frazier Park. After PAS.

(460) Wyoming

ISC	**I**	**27 21 21 34.6–.61**	**43.99N–.03**	**105.42W–.03**	**0**		**49**	**1-19**
ISCJB	I	27 21 21 32.8–.35	44.05N–.03	105.37W–.03	0			**¶17191145**
IDC	I	27 21 21 32.7–1.0	44.10N	105.52W	0	3.2,3.1		
NEIC	I	27 21 21 34.3–.38	44.06N	105.42W	0	2.8L,3.1		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=3.0km az=15.2.
IDC Error ellipse: s-maj=21.4km s-min=8.6km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=6.8km s-min=4.1km az=182.0. 28 km [17 miles] SSE of Gillette. Suspected Mining explosion.

(294) Myanmar-India border region

ISC	**I**	**27 22 40 05.2–.33**	**24.29N–.04**	**94.53E–.03**	**87–2**	**4.6b**	**324**	**1-154**
BKK	I	27 22 40 01.3–.40	25N–7.0	95E–9.0	10	5.0,4.9b		**¶15977374**
ISCJB	I	27 22 40 02.5–.36	24.28N–.02	94.49E–.02	73–3	4.6b,4.9b		
MOS	I	27 22 40 03.6–1.0	24.27N	94.66E	85	4.7b,4.9b		
NEIC	I	27 22 40 05.2–.15	24.27N	94.63E	86	4.7b,4.9b		
IDC	I	27 22 40 05.1–.42	24.29N	94.70E	85–3	4.6,4.3		
BJI	I	27 22 40 07.0	24.56N	94.63E	100	4.8b,4.5b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=32.6.
MOS Error ellipse: s-maj=10.1km s-min=4.5km az=117.5.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.0km az=52.0. Felt at Bokokhat, Kohima and Manipur, India.
IDC Error ellipse: s-maj=12.5km s-min=7.6km az=50.0.

(259) Mindanao

ISC	**I**	**28 01 15 02.8–1.2**	**8.39N–.04**	**123.20E–.04**	**29–10**	**4.0b,3.1s**	**28**	**1-84**
IDC	I	28 01 14 57.0–1.1	8.81N	123.78E	0	4.3L,3.9		**¶16136014**
NEIC	I	28 01 15 02.5–2.0	8.73N	123.76E	43–24	4.1b,3.9		
MAN	I	28 01 15 02	8.37N	123.16E	15	4.6b,3.5L		

ISC Event type fe.
IDC Error ellipse: s-maj=57.4km s-min=19.8km az=55.0.
NEIC Event type fe. Error ellipse: s-maj=25.3km s-min=18.1km az=65.0. Felt [III PIVS] at Dipolog and Sindangan; [II PIVS] at Ipil, Katipunan, Manucan and Zamboanga City.
MAN Event type fe. INTENSITY III - DIPOLOG CITY; SINDANGAN ZAMBOANGA DEL NORTE; INTENSITY II - IPIL ZAMBOANGA SIBUGAY; KATIPUNAN AND MANUKAN.

(232) Western Honshu

JMA	**I**	**28 03 51 59.2**	**35.36N**	**136.82E**	**41**	**3.0**		
								¶600522877

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s36.00000°,δ72.00000°,λ47.00000°. NP2:ϕ_s288.00000°,δ46.00000°,λ155.00000°. Principal axes: T Plg45.0000°,Azm262.0000°; N Plg41.0000°,Azm52.0000°; P Plg16.0000° ,Azm156.0000°

(353) Southern Iran

ISC	**I**	**28 04 20 38.9–.42**	**28.13N–.03**	**59.04E–.02**	**26–2**	**4.9b,4.7s**	**758**	**2-154**
IDC	I	28 04 20 34.6–.32	28.22N	59.00E	0	4.7,4.7		**¶15977459**
GCMT	I	28 04 20 36.3–.20	28.03N	58.94E	12	5.2W,4.7		
CSEM	I	28 04 20 36.6–.10	28.17N	59.04E	10	4.9b,4.7s		
NEIC	I	28 04 20 36.3	28.15N	59.07E	15	5.3,5.3L		
THR	I	28 04 20 36.2–.67	28.15N	59.07E	14	5.3L,5.3L		
ISCJB	I	28 04 20 36.8–.60	28.12N–.02	59.02E–.02	23–4	4.9b,4.7s		
BJI	I	28 04 20 37.0	28.29N	58.71E	34	5.2b,5.2s		
DSN	I	28 04 20 37.0–.65	28.08N	59.21E	15	6.0L,4.9b		
MOS	I	28 04 20 38.0–1.2	28.13N	59.05E	33	5.1b,4.7s		
TEH	I	28 04 20 39.8	28.34N	58.97E	8	5.3L,4.7s		
OMAN	I	28 04 20 41.5–54	27.95N	59.25E	63–6	5.3L,4.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=8.7km s-min=8.2km az=153.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c91; s109,c188; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.09±.02 $M_{\theta\theta}$0.91±.01; $M_{\phi\phi}$-0.82±.01; $M_{r\theta}$0.03±.04; $M_{\theta\phi}$0.00±.02; $M_{\phi r}$0.33±.04; Best double couple: NP1:ϕ_s227.00000°,δ77.00000° ,λ-163.00000°. NP2:ϕ_s133.00000°,δ74.00000°,λ-14.00000°. Principal axes: T 0.9090,Plg2.0000°,Azm360.0000°; N 0.0380,Plg69.0000°,Azm265.0000° ; P -0.9470,Plg21.0000°,Azm90.0000° M_o0.92800×10^{17}
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.6km az=102.0.
NEIC Event type fe. Felt at Bam. After THR.
THR Error ellipse: s-maj=4.2km s-min=2.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.5km az=10.3.
DSN Error ellipse: s-maj=13.7km s-min=5.7km az=110.0.
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=105.0.
OMAN Error ellipse: s-maj=6.6km s-min=5.1km az=39.0.

(162) South Island

WEL	**I**	**28 05 04 05.8–.07**	**43.32S**	**171.98E**	**10–0**	**4.0L**		
NEIC	I	28 05 04 05.8	43.32S	171.99E	11	4.0L		**¶15977704**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(228) Near east coast of eastern Honshu

ISC	**I**	**28 07 41 45.4–.79**	**36.58N–.04**	**140.56E–.05**	**54–6**	**3.7b**	**39**	**0-91**
NIED	I	28 07 41 00	36.60N	140.60E	53	3.8W		**¶17191180**
ISCJB	I	28 07 41 44.3–.44	36.57N–.03	140.62E–.05	63–3	3.7b		
JMA	I	28 07 41 45.6–.10	36.56N	140.57E	55–1	3.8		
IDC	I	28 07 41 45.3–1.8	36.61N	140.58E	52–18	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ24.00000°,λ-72.00000°. NP2:ϕ_s198.00000°,δ67.00000°,λ-98.00000°. M_o5.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.7km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s188.00000°,δ60.00000°,λ-117.00000°. NP2:ϕ_s54.00000°,δ39.00000°,λ-52.00000°. Principal axes: T Plg11.0000°,Azm297.0000°; N Plg23.0000°,Azm202.0000°; P Plg64.0000° ,Azm52.0000°
IDC Error ellipse: s-maj=18.2km s-min=11.3km az=94.0.

(254) Panay

MAN	**I**	**28 10 53 30**	**11.23N**	**122.60E**	**2**	**4.2b,3.0L**		
								¶601668476

MAN Event type fe. INTENSITY II - BINGAWAN ILOILO; DUMALAG CAPIZ; TAPAZ CAPIZ.

(233) Near south coast of western Honshu

ISC	**I**	**28 13 48 57.9–1.3**	**34.69N–.04**	**135.31E–.03**	**1–10**	**3.6b**	**30**	**0-69**
NIED	I	28 13 48 00	34.70N	135.30E	5	3.6W		**¶15979649**
IDC	I	28 13 48 57.6–1.1	34.63N	135.35E	0	3.6,3.5b		
ISCJB	I	28 13 48 58.4–.42	34.72N–.03	135.26E–.03	10–3	3.5b,3.5b		
JMA	I	28 13 48 58.7	34.73N	135.27E	6–1	3.6,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ97.00000°. NP2:ϕ_s360.00000°,δ59.00000°,λ86.00000°. M_o2.67000×10^{14}
IDC Error ellipse: s-maj=27.3km s-min=15.3km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=24.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ48.00000°,λ97.00000°. NP2:ϕ_s355.00000°,δ42.00000°,λ82.00000°. Principal axes: T Plg84.0000°,Azm149.0000°; N Plg5.0000°,Azm0.0000°; P Plg3.0000° ,Azm270.0000°

(14) Kenai Peninsula

ISC	**I**	**29 01 57 19.3–.75**	**60.51N–.03**	**151.45W–.03**	**66–6**	**3.9b**	**118**	**0-58**
ISCJB	I	29 01 57 18.1–.20	60.52N–.02	151.41W–.04	76–3	3.7b		**¶16136087**
IDC	I	29 01 57 18.9–1.3	60.59N	151.59W	63–12	3.9,3.9		
NEIC	I	29 01 57 20.1	60.50N	151.42W	54	3.6L,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=36.9.
IDC Error ellipse: s-maj=15.3km s-min=9.2km az=105.0.
NEIC Event type fe. Felt at Homer and Soldotna. After AEIC.

(137) San Juan Province

ISC	**I**	**29 07 24 49.9–.40**	**31.79S–.04**	**67.98W–.04**	**10**	**4.4b**	**72**	**0-174**
IDC	I	29 07 24 48.1–.68	31.88S	67.88W	0	4.4,4.3		**¶15979161**
ISCJB	I	29 07 24 49.1–.33	31.80S–.04	67.93W–.04	10	4.4b,4.3		
SJA	I	29 07 24 49.0–.33	31.80S	67.98W	10–3	4.2W,4.2L		
NEIC	I	29 07 24 54.6–.74	31.78S	67.74W	38–6	4.5b,4.4		
BJI	I	29 07 24 55.9	31.70S	67.70W	31	5.2s,5.0		

ISC Event type fe.
IDC Error ellipse: s-maj=24.6km s-min=19.4km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=16.2.
SJA Error ellipse: s-maj=1.0km s-min=1.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.3km az=73.0. Felt [II] at San Juan.

(549) Hungary

ISC	**I**	**29 17 41 37.4–.82**	**47.47N–.01**	**18.29E–.01**	**2–5**	**4.0b,3.2s**	**877**	**0-87**
BJI	I	29 17 41 32.8	47.44N	17.71E	6	4.7b,4.7b		**¶15979854**
SIGU	I	29 17 41 35.9–.10	47.44N–.01	18.31E–.01	8–0	4.1b,4.7b		
ISCJB	I	29 17 41 36.4–.23	47.476N–.01	18.27E–.01	7–1	4.1b,3.3s		
LDG	I	29 17 41 36.9–.10	47.52N	18.41E	5	4.7L,4.6		
MOS	I	29 17 41 36.3–1.1	47.42N	18.28E	11	4.4b,4.6		
IDC	I	29 17 41 37.1–.67	47.38N	18.39E	0	4.4L,4.0		
IPEC	I	29 17 41 38.0–.07	47.46N	18.33E	12–1	4.3L,4.0		
PRU	I	29 17 41 38.4	47.47N	18.33E	0	4.3,4.0		
BEO	I	29 17 41 38.7–.86	47.41N	18.32E	7–5	4.4,4.0		
NEIC	I	29 17 41 38.4–.19	47.52N	18.33E	10	4.3W,4.3b		
PDG	I	29 17 41 38.0–.54	47.51N	18.34E	18–1	4.3L,4.3b		
CSEM	I	29 17 41 38.3–.05	47.50N	18.33E	10	4.9L,4.3W		
BGR	I	29 17 41 39.8–.82	47.49N	18.34E	10	4.6L,4.3W		
BNS	I	29 17 41 41.6–.80	47.29N	17.90E	10	4.7L,4.3W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.3km az=24.5.
LDG Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=12.0.
MOS Error ellipse: s-maj=4.0km s-min=3.4km az=111.3.
IDC Error ellipse: s-maj=12.1km s-min=6.9km az=24.0.
IPEC Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=12.0.
PRU Felt In Southern Slovakia.
BEO Event type ke.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=181.0. Felt [V] at Kornye and [IV] at Csakvar, Komarom, Piliscsaba, Tatabanya, Torokbalint and Varpalota; [III] at Biatorbagy, Budakeszi, Budaors, Budapest, Nagykovacsi, Szekesfehervar, Tarjan, Tata, Vertesszolos and Zsambek. Felt [IV] at Nitra and Sturovo and [III] at Komarno, Levice and Nove Zamky, Slovakia. Also felt at Hainburg, Austria. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$0.51 $M_{r\theta}$0.05 $M_{\theta\phi}$2.90 $M_{\phi r}$-0.52 Best double couple: NP1: ϕ_s265.00000°,δ80.00000°,λ0.00000°. NP2:ϕ_s355.00000°,δ90.00000°,λ-170.00000°. Principal axes: T 2.9900,Plg7.0000°,Azm130.0000°; N 0.0000,Plg80.0000°,Azm355.0000° ; P -2.9900,Plg7.0000°,Azm220.0000° M_o3.00000×10^{15}
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=37.0.
BGR Event type ke. Error ellipse: s-maj=11.1km s-min=4.4km az=114.0.
BNS Event type ke.

(207) Eastern New Guinea region

ISC	**I**	**29 23 38 42.2–.43**	**7.88S–.04**	**147.74E–.07**	**52**	**4.7b,3.6s**	**98**	**2-153**
BJI	I	29 23 38 39.9	7.55S	148.17E	49	5.0b,5.0s		**¶15981229**
ISCJB	I	29 23 38 40.7–.30	7.82S–.03	147.70E–.05	52	4.7b,3.8s		
NEIC	I	29 23 38 42.5–.67	7.80S	147.76E	57–6	4.7b,3.8s		
DJA	I	29 23 38 43.8–2.0	8S–11	148E–12	53–12	5.3,5.1b		
IDC	I	29 23 38 45.9–1.4	7.89S	147.71E	91–11	4.3,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=8.8.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=94.0. Felt at Port Moresby.
IDC Error ellipse: s-maj=25.9km s-min=12.2km az=104.0.

(254) Panay

MAN	**I**	**30 02 00 35**	**11.23N**	**122.58E**	**11**	**4.2b,3.1L**		
								¶601668485

MAN Event type fe. INTENSITY II - BINGAWAN ILOILO; DUMALAG CAPIZ; TAPAZ CAPIZ.

(216) Mariana Islands

ISC	**I**	**30 02 04 54.9–.45**	**13.03N–.05**	**145.87E–.05**	**61–3**	**5.0b**	**528**	**1-155**
IDC	I	30 02 04 46.4–.45	13.02N	145.97E	0	4.8,4.7		**¶15981232**
MOS	I	30 02 04 50.5–1.1	13.06N	145.82E	33	5.3b,4.7		
ISCJB	I	30 02 04 50.4–1.2	13.03N–.03	145.80E–.03	33–10	5.0b,4.2s		
NEIC	I	30 02 04 54.4–.78	13.01N	145.82E	54–7	5.1b,4.2s		
GCMT	I	30 02 04 54.4–.40	12.88N	146.04E	43–1	4.9W,4.2s		
BJI	I	30 02 04 54.0	13.17N	145.95E	63	5.1b,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=12.1km az=80.0.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=103.4.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=4.1.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=128.0. Felt at Hagatna and Santa Rita.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c41; s62,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.68±.19 $M_{\theta\theta}$0.00±.13; $M_{\phi\phi}$-2.68±.12; $M_{r\theta}$1.28±.12; $M_{\theta\phi}$0.56±.11; $M_{\phi r}$0.43±.13; Best double couple: NP1:ϕ_s10.00000°,δ51.00000° ,λ120.00000°. NP2:ϕ_s148.00000°,δ48.00000°,λ58.00000°. Principal axes: T 3.2560,Plg67.0000°,Azm345.0000°; N -0.4570,Plg23.0000°,Azm170.0000° ; P -2.7990,Plg2.0000°,Azm80.0000° M_o3.02700×10^{16}

(559) Western Gulf of Aden

ISC	**I**	**30 02 28 42.8–.76**	**12.00N–.04**	**43.97E–.04**	**9–4**	**4.8b,4.4s**	**521**	**1-128**
BJI	I	30 02 28 39.8	12.05N	43.81E	10	5.3b,4.9s		**¶15981233**
DHMR	I	30 02 28 40.2–2.0	12.04N	44.03E	11–20	5.2L,4.9s		
ARO	I	30 02 28 41.4	12N–7.0	44E–7.0	4–11	4.7L,4.9s		
IDC	I	30 02 28 41.1–.58	11.92N	43.98E	0	4.5b,4.5		
ISCJB	I	30 02 28 41.2–.19	11.94N–.02	44.00E–.02	10	4.7b,4.4s		
MOS	I	30 02 28 42.2–.93	12.00N	43.98E	14	5.1b,4.4s		
CSEM	I	30 02 28 43.6–.15	12.03N	44.04E	10	4.9b,4.4s		
NEIC	I	30 02 28 43.1–.26	11.99N	44.03E	10	5.0b,4.4s		
GCMT	I	30 02 28 44.3–.20	12.05N	44.25E	12	5.0W,4.4s		
OMAN	I	30 02 28 45.6–17	12.12N	44.12E	12–2	5.0W,4.4s		

ISC Event type ke.
DHMR Error ellipse: s-maj=17.2km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.6km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=148.3.
MOS Error ellipse: s-maj=8.6km s-min=4.3km az=93.9.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.1km az=159.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=5.4km az=135.0. Felt at Ta'izz, Yemen.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=35s. Moment Tensor Solution. s27,c35; s81,c135; Duration: 1s3 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.13±.11 $M_{\theta\theta}$3.47±.08; $M_{\phi\phi}$0.65±.11; $M_{r\theta}$-1.26±.27; $M_{\theta\phi}$-1.26±.09; $M_{\phi r}$-0.89±.38; Best double couple: NP1:ϕ_s96.00000°,δ53.00000° ,λ-109.00000°. NP2:ϕ_s305.00000°,δ41.00000°,λ-67.00000°. Principal axes: T 4.0470,Plg6.0000°,Azm199.0000°; N 0.5120,Plg15.0000°,Azm107.0000° ; P -4.5630,Plg74.0000°,Azm311.0000° M_o4.30500×10^{16}
OMAN Error ellipse: s-maj=5.5km s-min=1.1km az=308.0.

(127) Chile-Argentina border region

ISC	**I**	**30 02 48 11.1–.47**	**29.45S–.04**	**69.49W–.03**	**114–4**	**4.4b**	**154**	**1-169**
SJA	I	30 02 48 08.4–1.2	29.37S	69.53W	136–11	4.0W,3.9L		**¶15981234**
GUC	I	30 02 48 10.4–.43	29.43S	69.54W	112–11	4.6L,3.9L		
ISCJB	I	30 02 48 10.0–.27	29.45S–.03	69.44W–.04	111–2	4.3b,3.9L		
BJI	I	30 02 48 10.4	29.50S	69.30W	94	4.3b,3.9L		

NEIC I 30 02 48 10.0 29.43S 69.54W 112 4.4b,3.9L
IDC I 30 02 48 11.6–.66 29.42S 69.34W 114–4 4.3,4.1
ISC Event type fe.
SJA Error ellipse: s-maj=5.1km s-min=5.7km az=-1.0.
GUC Error ellipse: s-maj=2.4km s-min=9.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=39.3.
NEIC Event type fe. Felt [II] at Coquimbo, La Ligua, La Serena and Vicuna, Chile. After GUC.
IDC Error ellipse: s-maj=19.9km s-min=17.2km az=58.0.

(197) Near north coast of Irian Jaya

ISC I 30 07 42 29.5–.71 2.57S–.08 140.50E–.07 24 4.1b 21 0-146
IDC I 30 07 42 26.3–.76 2.46S 140.39E 0 4.3,4.3L **¶15998184**
ISCJB I 30 07 42 27.6–.69 2.50S–.08 140.48E–.05 24 4.0b,3.2s
NEIC I 30 07 42 28.5–1.2 2.44S 140.52E 16–7 4.5b,3.2s
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=6.5km az=8.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.7km az=10.4.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=9.7km az=217.0. Felt [IV] at Sentani and [III] at Jayapura.

(162) South Island

WEL I 30 07 57 27.3–.12 43.58S 172.40E 11–1 3.6L
¶15981241
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(159) North Island

WEL I 30 17 49 17.6–.15 38.91S 178.00E 28–1 3.8L
NEIC I 30 17 49 17.6 38.91S 177.99E 27 3.8L **¶15982698**
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt in northern Hawke's Bay. After WEL.

(2) Southern Alaska

ISC I 30 18 19 22.7–.40 60.65N–.04 152.13W–.03 98–3 4.3b 676 0-148
BJI I 30 18 19 18.0 60.60N 152.00W 76 5.1b,5.0s **¶15981259**
ISCJB I 30 18 19 21.0–.15 60.72N–.02 152.19W–.03 93–1 4.2b,5.0s
IDC I 30 18 19 23.6–.52 60.80N 152.25W 102–4 4.3,4.1
NEIC I 30 18 19 23.3 60.61N 152.05W 81 4.3b,4.2W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.4km az=156.9.
IDC Error ellipse: s-maj=11.1km s-min=7.4km az=21.0.
NEIC Event type fe. Felt at Anchorage and Kenai. After AEIC. Moment Tensor Solution. s25 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.05 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$0.58 $M_{r\theta}$0.42 $M_{\theta\phi}$-0.09 $M_{\phi r}$2.82 Best double couple: NP1:ϕ_s308.00000°,δ6.00000°,λ-152.00000°. NP2:ϕ_s189.00000° ,δ87.00000°,λ-85.00000°. Principal axes: T 3.1100,Plg42.0000°,Azm274.0000° ; N -0.4700,Plg5.0000°,Azm9.0000°; P -2.6400,Plg48.0000°,Azm105.0000° M_o2.90000×10^{15}

(159) North Island

WEL I 30 19 30 56.5–.07 37.69S 175.63E 5 3.5L
¶15982700
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Bay of Plenty to Waikato, maximum reported intensity MM 4.

(135) Near coast of central Chile

ISC I 30 21 48 28.0–.47 29.89S–.03 71.64W–.06 48–3 4.8b,4.0s 581 0-173
IDC I 30 21 48 20.8–.49 29.92S 71.54W 0 4.7,4.7L **¶15990271**
ISCJB I 30 21 48 27.3–.52 29.87S–.02 71.62W–.06 53–5 4.9b,4.0s
SJA I 30 21 48 27.6–.80 29.82S 71.49W 33 4.7L,4.5W
NEIC I 30 21 48 28.0 29.88S 71.50W 50 4.8b,4.5W
GUC I 30 21 48 28.0–.38 29.88S 71.50W 50–2 5.2L,4.5W
BJI I 30 21 48 29.8 29.90S 71.40W 41 5.2s,5.0b
ISC Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=15.6km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.1km az=174.6.
SJA Error ellipse: s-maj=3.5km s-min=16.3km az=-1.0.
NEIC Event type fe. Felt [IV] at Coquimbo, La Higuera, La Serena and Ovalle; [III] at Monte Patria; [II] at Andacollo, Paiguano and Vicuna. After GUC.
GUC Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0.

(249) Luzon

ISC I 30 21 55 04.0–1.4 15.02N–.03 119.65E–.07 23–11 4.1b,3.2s 60 1-92
IDC I 30 21 55 00.0–.63 15.01N 119.89E 0 4.1,4.0b **¶16136251**
NEIC I 30 21 55 05.5–1.0 14.94N 119.81E 38–10 4.3b,4.0b
MAN I 30 21 55 05 15.08N 119.59E 23 4.5b,3.4L
ISC Event type fe.
IDC Error ellipse: s-maj=41.2km s-min=14.0km az=63.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=7.6km az=78.0. Felt [II PIVS] at Olongapo.
MAN Event type fe. INTENSITY II - OLONGAPO CITY.

(227) Eastern Honshu

JMA I 30 23 03 30.8 35.54N 138.94E 25–1 3.5
NIED I 30 23 03 00 35.50N 138.90E 23 3.3W **¶600523845**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s246.00000°,δ80.00000°,λ-162.00000°. NP2:ϕ_s152.00000°,δ72.00000°,λ-11.00000°. Principal axes: T Plg5.0000°,Azm18.0000°; N Plg69.0000°,Azm275.0000°; P Plg20.0000° ,Azm110.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ50.00000°,λ-6.00000°. NP2:ϕ_s254.00000°,δ85.00000°,λ-140.00000°. M_o1.14000×10^{14}

(160) Off east coast of North Island

ISC I 30 23 39 29.4–1.2 39.02S–.03 178.18E–.06 23–7 3.4s 137 0-155
IDC I 30 23 39 26.5–1.2 39.03S 178.06E 0 4.4,4.2 **¶15982701**
ISCJB I 30 23 39 28.4–.79 39.08S–.03 178.23E–.07 30–4 4.0b,3.4s
NEIC I 30 23 39 31.3 38.93S 178.06E 26 4.2L,3.4s
WEL I 30 23 39 31.4–.15 38.93S 178.05E 27–1 4.2L,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=38.6km s-min=13.5km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=4.3km az=13.7.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 5.

(159) North Island

ISC I 30 23 53 26.8–.96 39.02S–.03 178.09E–.05 27–5 4.3b,3.4s 151 0-154
IDC I 30 23 53 23.6–.98 39.10S 178.01E 0 4.4b,4.4 **¶15982702**
ISCJB I 30 23 53 25.1–.79 39.09S–.03 178.24E–.07 30–4 4.3b,3.4s
NEIC I 30 23 53 28.9 38.93S 177.99E 27 4.2L,3.4s
WEL I 30 23 53 28.5–.14 38.94S 178.04E 28–0 4.2L,3.4s
ISC Event type fe.
IDC Error ellipse: s-maj=32.5km s-min=12.7km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.0km az=14.8.
NEIC Event type fe. Felt at Gisborne. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.8km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.

(160) Off east coast of North Island

ISC I 31 01 00 38.4–.93 38.99S–.03 178.08E–.04 27–5 94 0-154
IDC I 31 01 00 35.6–1.3 38.65S 177.92E 0 4.5,4.2 **¶15982703**
ISCJB I 31 01 00 37.9–.50 39.01S–.03 178.12E–.05 36–6 3.8b,4.2
NEIC I 31 01 00 39.8 38.91S 178.02E 28 4.1L,4.2
WEL I 31 01 00 39.5–.15 38.93S 178.05E 28–1 4.0L,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=57.6km s-min=39.3km az=11.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=18.2.
NEIC Event type fe. Felt at Gisborne. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=1.1km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.

(73) El Salvador

ISC I 31 03 50 27.8–.77 13.20N–.06 89.21W–.04 61–5 4.0b 246 0-148
ISCJB I 31 03 50 26.9–.51 13.12N–.06 89.22W–.04 70–2 4.0b **¶15990272**
CASC I 31 03 50 27.9–.84 13.12N 89.24W 48–8 4.2b,4.1L
NEIC I 31 03 50 28.9–1.1 13.14N 89.16W 72–9 4.5,4.2b
IDC I 31 03 50 34.0–4.7 13.44N 88.93W 119–35 3.9,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=3.5km az=29.5.
CASC Error ellipse: s-maj=5.0km s-min=2.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.6km s-min=9.7km az=215.0. Felt [IV] at San Salvador. Also felt at Aguilares, Concepcion de Ataco, Nueva San Salvador, Soyapango and Zaragoza.
IDC Error ellipse: s-maj=39.8km s-min=22.2km az=33.0.

(174) Tonga Islands region

ISC I 31 06 03 26.3–.31 22.00S–.03 175.54W–.04 69–2 6.0b 2116 6-179
MOS I 31 06 03 21.3–.93 21.89S 175.64W 33 6.2b,5.1s **¶601990432**
IDC I 31 06 03 22.3–1.5 21.92S 175.51W 33–10 5.7,5.5
BJI I 31 06 03 25.2 21.64S 175.32W 67 5.9b,5.7b
NEIC I 31 06 03 26.0–.00 21.94S 175.51W 76 5.9b,5.7b
NEIC I 31 06 03 27.3–.09 22.01S 175.62W 76 6.2,6.0W
GCMT I 31 06 03 27.3–.10 21.91S 175.13W 90–0 6.0W,6.0W
ISCJB I 31 06 03 28.7–.07 22.06S–.02 175.66W–.02 100 5.8b,6.0W
NEIC I 31 06 03 45.5–.00 21.88S 175.40W 77 5.8b,6.0W
ISC Event type fe.
MOS Error ellipse: s-maj=8.0km s-min=5.9km az=69.7.
IDC Error ellipse: s-maj=11.8km s-min=9.7km az=147.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ88.00000° ,λ-46.00000°. NP2:ϕ_s64.00000°,δ43.00000°,λ-177.00000°. Principal axes: T 1.2800,Plg30.0000°,Azm29.0000°; N -0.2400,Plg44.0000°,Azm151.0000° ; P -1.0400,Plg32.0000°,Azm278.0000°
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=138.0. Felt [IV] at Nuku'alofa. Also felt at Havelu, 'Ohonua and Vaini. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o2.00000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000° ,δ90.00000°,λ64.00000°. NP2:ϕ_s54.00000°,δ26.00000°,λ179.00000°. Principal axes: T 1.2200,Plg40.0000°,Azm31.0000°; N -0.1500,Plg26.0000°,Azm145.0000° ; P -1.0700,Plg39.0000°,Azm258.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c297; s141,c450;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.15±.01 $M_{\theta\theta}$0.82±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.51±.01; $M_{\theta\phi}$-0.61±.01; $M_{\phi r}$-0.65±.01; Best double couple: NP1:ϕ_s331.00000°,δ88.00000°,λ-41.00000°. NP2:ϕ_s63.00000° ,δ49.00000°,λ-177.00000°. Principal axes: T 1.3770,Plg26.0000°,Azm25.0000° ; N -0.2330,Plg49.0000°,Azm149.0000°; P -1.1430,Plg29.0000°,Azm279.0000° M_o1.26000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=144.7.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ87.00000° ,λ41.00000°. NP2:ϕ_s66.00000°,δ49.00000°,λ176.00000°. Principal axes: T 1.4500,Plg30.0000°,Azm31.0000°; N -0.2300,Plg49.0000°,Azm162.0000° ; P -1.2100,Plg26.0000°,Azm285.0000°

(103) Colombia

ISC I 31 07 13 40.7–.45 3.97N–.04 76.53W–.03 81–3 4.9b 747 1-157
ISCJB I 31 07 13 40.4–.28 4.01N–.02 76.52W–.02 91–2 4.8b **¶15981606**
IDC I 31 07 13 40.5–.61 4.00N 76.53W 80–4 4.6,4.5
RSNC I 31 07 13 41.8–1.5 4.03N 76.57W 71–10 4.6L,4.5
NEIC I 31 07 13 42.6–.39 3.94N 76.40W 98–3 4.9b,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=172.4.
IDC Error ellipse: s-maj=10.1km s-min=7.9km az=10.0.
RSNC Error ellipse: s-maj=3.9km s-min=4.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=225.0. Felt [IV] at Cali. Also felt at Candelaria, Darien, Jamundi, Pereira, Tulua and Yumbo.

(226) Near west coast of eastern Honshu

JMA I 31 07 39 38.0 37.29N 138.93E 12–1 2.5
¶600523941
JMA Event type fe.

(230) Near south coast of eastern Honshu

ISC I 31 08 21 58.0–.95 34.78N–.05 139.18E–.05 9–7 3.7b 21 0-80
NIED I 31 08 21 00 34.80N 139.20E 5 4.0W **¶15982236**
IDC I 31 08 21 57.2–.86 34.62N 139.02E 0 3.9,3.7
ISCJB I 31 08 21 58.1–.52 34.83N–.03 139.23E–.05 11–3 3.7s,3.7b
JMA I 31 08 21 58.2–.10 34.84N 139.24E 10–1 4.2,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ75.00000°,λ-11.00000°. NP2:ϕ_s89.00000°,δ80.00000°,λ-165.00000°. M_o1.01000×10^{15}
IDC Error ellipse: s-maj=27.0km s-min=15.0km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=149.8.
JMA Event type fe.

(160) Off east coast of North Island

WEL I 31 10 33 36.4–.15 38.96S 178.10E 26–0 3.8L
¶15982708
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.

(546) Austria

ISC I 31 11 44 25.8–.98 47.26N–.02 10.72E–.02 10–7 66 0-3
ISCJB I 31 11 44 25.0–.38 47.25N–.02 10.73E–.03 14–4 **¶15995131**
VIE I 31 11 44 25.6–.25 47.25N 10.73E 9–5 2.7L,1.6b
CSEM I 31 11 44 25.6–.12 47.25N 10.72E 10 2.5L,1.6b
ROM I 31 11 44 26.2–.95 47.22N 10.78E 10 2.3,1.3L
BGR I 31 11 44 27.2–.44 47.26N 10.68E 10 2.4L,1.3L
PRU I 31 11 44 27.3 47.38N 10.70E 5 2.4L,1.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=153.9.
VIE Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=145.0. felt 4 ems98 at Imst / Tyrol.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=154.0.
ROM Event type ke. Error ellipse: s-maj=9.9km s-min=5.6km az=1.0.
BGR Event type fe. Error ellipse: s-maj=6.7km s-min=3.3km az=3.0.

(237) Southeast of Shikoku

ISC I 31 17 32 28.6–1.2 31.84N–.06 132.02E–.05 43–11 3.8b 46 1-88
NIED I 31 17 32 00 31.80N 132.20E 26 4.3W **¶16136320**
IDC I 31 17 32 22.9–.65 31.85N 131.77E 0 3.9,3.9
JMA I 31 17 32 26.1–.20 31.83N 132.18E 22–2 4.1,3.9
ISCJB I 31 17 32 27.4–.62 31.83N–.05 132.09E–.05 54–5 3.8b,3.2s
NEIC I 31 17 32 28.8–1.1 31.81N 131.88E 44–10 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ44.00000°,λ108.00000°. NP2:ϕ_s5.00000°,δ49.00000°,λ74.00000°. M_o2.67000×10^{15}
IDC Error ellipse: s-maj=19.4km s-min=16.9km az=76.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.8km az=141.8.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=8.9km az=207.0. Recorded [1 JMA] in Miyazaki.

(244) Taiwan

ISC I 31 20 53 14.9–.85 24.19N–.02 121.87E–.02 16–5 4.4b,4.0s 248 0-149
NIED I 31 20 53 00 24.20N 121.80E 8 4.7W,4.0s **¶15990784**
IDC I 31 20 53 12.2–.64 24.27N 122.02E 0 4.3,4.1
BJI I 31 20 53 13.7 24.16N 121.90E 9 4.6b,4.5s
NEIC I 31 20 53 14.2–.72 24.15N 121.90E 12–4 4.6L,4.5b
MOS I 31 20 53 14.9–1.1 24.25N 122.09E 33 4.8b,4.5b
JMA I 31 20 53 15.3–.10 24.17N 121.75E 22–1 4.6,4.5b
TAP I 31 20 53 15.8 24.21N 121.79E 16–0 4.9L,4.5b
ISCJB I 31 20 53 16.1–.25 24.24N–.01 121.85E–.02 27–1 4.4b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ20.00000°,λ130.00000°. NP2:ϕ_s46.00000°,δ75.00000°,λ77.00000°. M_o1.24000×10^{16}
NEIC Event type fe. Recorded [4 TAP] in Hualien and [3 TAP] in Nantou and Yilan.
TAP B.
ISCJB Event type fe.

(460) Wyoming

ISC I 31 23 05 30.5–.81 43.66N–.04 105.17W–.05 0 37 1-20
ISCJB I 31 23 05 28.7–.53 43.79N–.03 105.05W–.05 0 **¶17191444**
IDC I 31 23 05 29.5–2.2 43.63N 105.27W 0 3.1,3.0
NEIC I 31 23 05 31.1–.67 43.70N 105.18W 0 3.0L,2.5
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.1km s-min=4.1km az=140.5.
IDC Error ellipse: s-maj=48.3km s-min=9.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=8.9km s-min=5.7km az=57.0. 71 km [44 miles] SSE of Gillette. Suspected Mining explosion.

(158) Off west coast of North Island

WEL II 01 03 39 14.7–.23 39.24S 173.84E 14–1 3.0L
¶15993431
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.2km az=90.0. Felt in the Taranaki region, maximum reported intensity MM 4.

(297) Myanmar-China border region

ISC II 01 07 11 25.8–.57 24.67N–.04 97.89E–.03 28–4 4.8b,4.2s 315 4-150
BJI II 01 07 11 20.7 24.70N 97.90E 10 5.0L,4.9s **¶15990795**
IDC II 01 07 11 20.6–.55 24.52N 97.89E 0 4.5,4.4

MOS II 01 07 11 23.4–1.0 24.60N 97.90E 28 5.0b,4.4s
BKK II 01 07 11 23.0–9.1 25N–74 98E–23 10 5.7,5.1
ISCJB II 01 07 11 24.4–.15 24.67N–.02 97.94E–.02 33 4.7b,4.3s
NEIC II 01 07 11 26.1–1.8 24.69N 97.94E 31–13 4.8b,4.3s
ISC Event type de.
IDC Error ellipse: s-maj=19.7km s-min=12.3km az=49.0.
MOS Error ellipse: s-maj=9.9km s-min=4.5km az=118.0.
ISCJB Event type de. Error ellipse: s-maj=3.0km s-min=2.8km az=19.8.
NEIC Event type de. Error ellipse: s-maj=6.7km s-min=4.9km az=58.0. At least 1 person injured at Pingyuan and at least 700 houses damaged or destroyed and 80,000 people displaced in the Yingjiang area, China.

(244) Taiwan

ISC	**II**	**01 08 16 31.0–.45**	**24.18N–.01**	**121.86E–.02**	**13–2**	**5.2b,5.0s**	**614**	**0-168**
NIED	II	01 08 16 00	24.20N	121.80E	8	5.4W,5.0s		**¶15990797**
BJI	II	01 08 16 28.3	24.20N	121.80E	10	5.6L,5.4		
TAP	II	01 08 16 31.5	24.21N	121.81E	18–0	5.5L,5.4		
MOS	II	01 08 16 31.4–1.4	24.19N	121.85E	28	5.3b,5.2s		
ISCJB	II	01 08 16 31.9–.22	24.23N–.01	121.86E–.01	28–1	5.0b,5.0s		
BKK	II	01 08 16 31.5–.40	24N–4.0	122E–4.0	10	5.8,5.4b		
IDC	II	01 08 16 31.8–3.7	24.13N	121.86E	23–24	4.8,4.8s		
JMA	II	01 08 16 31.0	24.15N	121.76E	17–1	5.5,4.8s		
GCMT	II	01 08 16 32.0–.30	24.19N	121.73E	12	5.3W,4.8s		
NEIC	II	01 08 16 32.0–.60	24.17N	121.83E	21–4	5.5L,5.3b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ26.00000°,λ136.00000°. NP2:ϕ_s47.00000°,δ72.00000°,λ71.00000°. $M_0$1.27000×10^{17}
TAP B.
MOS Error ellipse: s-maj=7.2km s-min=4.6km az=112.2.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=35.5.
IDC Error ellipse: s-maj=13.1km s-min=9.9km az=67.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c68; s74,c98; Duration: 1$\pm$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10±.01 $M_{\theta\theta}$-0.20±.01; $M_{\phi\phi}$0.10±.01; $M_{r\theta}$0.70±.03; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$0.99±.03; Best double couple: NP1:ϕ_s35.00000°,δ87.00000°,λ80.00000°. NP2:ϕ_s286.00000°,δ10.00000°,λ161.00000°. Principal axes: T 1.1950,Plg47.0000°,Azm294.0000°; N 0.0950,Plg10.0000°,Azm35.0000°; P -1.2910,Plg41.0000°,Azm134.0000° $M_0$1.24300×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.2km az=106.0. Felt [III] at Taipei. Also felt at Danshui, Hsinchu, Kaohsiung, Taichung, Taoyuan and Zhubei. Recorded [5 TAP] in Hualien and Yilan; [3 TAP] in Nantou; [2 TAP] in Changhua, Hsinchu, Miaoli, Taoyuan and Yunlin; [1 TAP] in Taitung. Moment Tensor Solution. s21 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.64 $M_{\theta\theta}$-0.95 $M_{\phi\phi}$4.59 $M_{r\theta}$2.33 $M_{\theta\phi}$-2.88 $M_{\phi r}$6.40 Best double couple: NP1:ϕ_s190.00000°,δ76.00000°,λ-63.00000°. NP2:ϕ_s306.00000°,δ30.00000°,λ-151.00000°. Principal axes: T 8.3200,Plg26.0000°,Azm260.0000°; N 0.3600,Plg26.0000°,Azm3.0000°; P -8.6800,Plg52.0000°,Azm131.0000° $M_0$8.50000×10^{16}

(224) Hokkaido region

ISC	**II**	**01 09 21 43.7–.89**	**42.53N–.05**	**144.26E–.03**	**55–9**	**3.2b**	**57**	**0-67**
NIED	II	01 09 21 00	42.60N	144.20E	47	3.7W		**¶17191468**
IDC	II	01 09 21 37.6–1.2	42.51N	144.61E	0	3.6,3.6L		
MOS	II	01 09 21 42.6–1.2	42.43N	144.30E	64	4.3b,3.6L		
ISCJB	II	01 09 21 42.6–.45	42.51N–.04	144.27E–.04	62–5	3.2b,3.6L		
JMA	II	01 09 21 43.6–.10	42.58N	144.22E	63–2	3.7,3.6L		
SKHL	II	01 09 21 44.5–.40	42.63N	144.22E	79–5	4.8b,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ59.00000°,λ-16.00000°. NP2:ϕ_s308.00000°,δ76.00000°,λ-148.00000°. $M_0$3.39000×10^{14}
IDC Error ellipse: s-maj=38.2km s-min=23.7km az=115.0.
MOS Error ellipse: s-maj=25.8km s-min=10.4km az=62.7.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=150.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(333) Tuva-Buryatia-Mongolia border region

ISC	**II**	**01 12 53 52.5–.24**	**51.00N–.02**	**107.89E–.02**	**13–1**	**4.6b,4.0s**	**484**	**1-153**
OBM	II	01 12 53 49.5–.08	51.04N	107.87E	5	5.1L,4.0s		**¶15998192**
BYKL	II	01 12 53 51.3–.20	50.98N	107.85E		4.7W,4.0s		
ISCJB	II	01 12 53 51.5–.12	50.93N–.02	107.97E–.03	17	4.6b,4.0s		
BJI	II	01 12 53 51.7	50.75N	107.89E	5	4.8b,4.8b		
IDC	II	01 12 53 52.4–.35	50.97N	107.83E	17–2	4.2,4.2		
NEIC	II	01 12 53 53.0–.18	50.93N	107.94E	17	4.7b,4.2		
MOS	II	01 12 53 53.1–1.4	50.98N	108.01E	20	4.9b,4.2		

ISC Event type fe.
OBM Error ellipse: s-maj=1.6km s-min=0.8km az=19.0.
BYKL Event type se. #FAULT_PLANE Typ Strike Dip Rake NP NS Plane Author # FM 286.95 44.43 -47.83 28 0 IEC + 55.20 58.75 -123.35 IEC #PRINAX sc T_val T_azim T_pl B_val B_azim B_pl P_val P_azim P_pl Author + eTv eTa eTp eBv eBa eBp ePv ePa ePp fCLVD # 168.31 7.94 74.05 28.03 272.68 60.67 IEC + 0.00 0.00 0.00 0.00 0.00 0.00 IEC. FELT I=VI MSK at Mukhorshibir, Harashibir, Okino-Klyuchi and V-VI at Novaya Zagan, Novosretenka and V at Bar, Desyatnikovo, Burnashev, Topka, Staryе Klyuchi, Podlopatki, Sagan Nur, Malyy Kunaley, Tugnui. #STATIONS TIXI MA2 MAJO SSE ENH KMI AAK ARU KEV KBS. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.2km az=168.0.
IDC Error ellipse: s-maj=8.9km s-min=6.5km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=4.0km az=161.0. Felt [IV] at Ulan-Ude, [III] at Selenginsk and [II] at Irkutsk and Zakamensk, Russia. Felt [II] at Ulaanbaatar, Mongolia. Also felt at Darhan.
MOS Event type fe. Error ellipse: s-maj=6.1km s-min=4.8km az=98.1. Felt (III-IV) at Ulan-Ude; (II-III) at Selenginsk; (II) at Zakamensk, Irkutsk. Moment Tensor Solution.

(254) Panay

MAN	**II**	**01 13 22 49**	**10.76N**	**122.55E**	**20**	**4.0b,2.9L**		
								¶601668499

MAN Event type fe. INTENSITY I - GUIMARAS ISLAND.

(116) Central Peru

ISC	**II**	**01 13 26 04.4–.47**	**10.71S–.06**	**76.44W–.10**	**100**	**4.7b**	**306**	**1-146**
ISCJB	II	01 13 26 01.7–.39	10.66S–.06	76.10W–.06	100	4.6b		**¶16021070**
NEIC	II	01 13 26 05.3–.63	10.69S	76.29W	112–6	4.7b		
IDC	II	01 13 26 06.7–1.6	10.60S	76.26W	124–13	4.5,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.6km az=144.3.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.3km az=52.0. Felt [II] at Lima. Also felt at Barranca.
IDC Error ellipse: s-maj=22.0km s-min=10.6km az=52.0.

(703) Andaman Islands region

ISC	**II**	**01 13 39 47.2–.37**	**10.61N–.03**	**94.04E–.03**	**25–2**	**5.3b,5.1s**	**560**	**2-167**
IDC	II	01 13 39 43.2–.37	10.60N	94.10E	0	4.8,4.8s		**¶15995159**
BJI	II	01 13 39 44.0	10.59N	93.95E	21	5.5b,5.4s		
ISCJB	II	01 13 39 44.6–.58	10.62N–.02	94.08E–.02	18–4	5.2b,5.1s		
MOS	II	01 13 39 46.2–1.2	10.71N	94.11E	29	5.5b,5.0s		
NEIC	II	01 13 39 47.0–1.7	10.62N	94.11E	22–11	5.6W,5.5b		
GCMT	II	01 13 39 47.0–.10	10.62N	94.27E	12	5.5W,5.5b		
DJA	II	01 13 39 51.2–.40	11N–3.0	95E–5.0	10	5.8,5.7b		
BKK	II	01 13 39 55.2–.40	11N–2.0	95E–5.0	10	5.5b,5.5		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Bangkok, Thailand. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.29 $M_{\theta\theta}$-1.69 $M_{\phi\phi}$1.40 $M_{r\theta}$-0.30 $M_{\theta\phi}$2.24 $M_{\phi r}$-0.06 Best double couple: NP1:ϕ_s253.00000°,δ90.00000°,λ7.00000°. NP2:ϕ_s163.00000°,δ83.00000°,λ180.00000°. Principal axes: T 2.5900,Plg5.0000°,Azm118.0000°; N 0.2900,Plg83.0000°,Azm256.0000°; P -2.8800,Plg4.0000°,Azm28.0000° $M_0$2.70000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c158; s101,c230;Duration: 1$\pm$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.73±.02 $M_{\theta\theta}$0.26±.02; $M_{\phi\phi}$0.47±.03; $M_{r\theta}$1.22±.06; $M_{\theta\phi}$1.35±.02; $M_{\phi r}$-0.05±.06; Best double couple: NP1:ϕ_s259.00000°,δ75.00000°,λ-47.00000°. NP2:ϕ_s5.00000°,δ45.00000°,λ-158.00000°. Principal axes: T 1.9790,Plg18.0000°,Azm318.0000°; N -0.1000,Plg41.0000°,Azm65.0000°; P -1.8790,Plg43.0000°,Azm211.0000° $M_0$1.92900×10^{17}

(460) Wyoming

ISC	**II**	**01 19 08 48.6–.73**	**43.58N–.04**	**105.26W–.04**	**0**		**64**	**1-62**
IDC	II	01 19 08 46.3–1.8	43.32N	105.20W	0	4.3b,4.0		**¶17191505**
ISCJB	II	01 19 08 49.0–.26	43.67N–.03	105.34W–.03	0	4.5b,4.0		
NEIC	II	01 19 08 49.7–.41	43.69N	105.25W	0	3.0L,4.0		

ISC Event type sm.
IDC Error ellipse: s-maj=37.5km s-min=8.0km az=154.0.
ISCJB Event type fm. Error ellipse: s-maj=4.2km s-min=2.5km az=145.9.
NEIC Event type fm. Error ellipse: s-maj=5.9km s-min=5.5km az=166.0. 69 km [43 miles] SSE of Gillette. Suspected Mining explosion.

(1) Central Alaska

ISC	**II**	**01 20 54 51.8–1.1**	**63.01N–.02**	**143.88W–.02**	**1–8**	**3.9b,3.2s**	**127**	**1-85**
NEIC	II	01 20 54 52.3	63.01N	143.91W	4	3.9W,3.8L		**¶15996060**
IDC	II	01 20 54 52.7–.65	63.17N	143.69W	0	4.1,3.9		
PGC	II	01 20 54 53.1–.02	62.99N	143.90W	5	4.0L,3.9W		

ISC Event type fe.
NEIC Event type fe. Felt at Tok. After AEIC. Moment Tensor Solution. $M_0$8.10000×10^{14}
IDC Error ellipse: s-maj=14.9km s-min=8.0km az=37.0.
PGC Event type ke. 243km northeast of Valdez, Ak Central Alaska.

(124) Chile-Bolivia border region

ISC	**II**	**01 23 38 46.3–.74**	**20.72S–.04**	**69.11W–.09**	**108–8**	**4.7b**	**37**	**0-145**
ISCJB	II	01 23 38 45.4–.41	20.71S–.03	69.05W–.08	113–5	4.8b		**¶16337747**
GUC	II	01 23 38 45.9–.41	20.73S	69.25W	114–2	3.9L		
NEIC	II	01 23 38 46.7–1.1	20.78S	68.77W	109–13	4.9b		
IDC	II	01 23 38 48.4–1.4	20.78S	68.58W	112–14	4.2,4.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.2km az=177.6.
GUC Error ellipse: s-maj=0.9km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=23.2km s-min=12.1km az=104.0. Felt [II] at Alto Hospicio, Huara, Iquique, Pica and Pozo Almonte.
IDC Error ellipse: s-maj=45.1km s-min=13.5km az=105.0.

(12) Alaska Peninsula

ISC	**II**	**02 00 38 17.3–.17**	**54.93N–.03**	**160.50W–.02**	**39–1**	**5.9b,5.6s**	**2398**	**0-164**
BJI	II	02 00 38 16.6	55.20N	161.10W	31	6.1b,5.9s		**¶15996065**
NEIC	II	02 00 38 17.8–.11	54.97N	160.47W	35	6.0,5.9W		
NEIC	II	02 00 38 17.0–.00	54.98N	160.43W	35	6.0,5.9W		
MOS	II	02 00 38 17.1–1.1	55.15N	160.47W	47	6.2b,5.6s		
ISCJB	II	02 00 38 17.9–.20	55.02N–.01	160.40W–.01	52–1	5.9b,5.6s		
IDC	II	02 00 38 19.4–.52	55.00N	160.44W	54–3	5.5,5.5		
GCMT	II	02 00 38 19.7–.10	54.76N	160.20W	50–0	5.9W,5.5		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=174.0. Felt [IV] at Sand Point. Also felt at Anchorage, Chignik and Cold Bay. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s44 Moment tensor: Scale 10^{17}Nm; M_{rr}3.55 $M_{\theta\theta}$-3.66 $M_{\phi\phi}$0.10 $M_{r\theta}$2.98 $M_{\theta\phi}$-2.84 $M_{\phi r}$1.09 Best double couple: NP1:ϕ_s231.00000°,δ28.00000°,λ74.00000°. NP2:ϕ_s69.00000°,δ63.00000°,λ98.00000°. Principal axes: T 4.6200,Plg71.0000°,Azm357.0000°; N 1.5700,Plg7.0000°,Azm245.0000°; P -6.2000,Plg18.0000°,Azm153.0000° $M_0$5.60000×10^{17}
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}6.51 $M_{\theta\theta}$-5.50 $M_{\phi\phi}$-1.01 $M_{r\theta}$5.43 $M_{\theta\phi}$-3.38 $M_{\phi r}$4.11 Best double couple: NP1:ϕ_s55.00000°,δ67.00000°,λ84.00000°. NP2:ϕ_s249.00000°,δ23.00000°,λ103.00000°. Principal axes: T 9.4000,Plg67.0000°,Azm315.0000°; N 0.7000,Plg5.0000°,Azm57.0000°; P -10.1000,Plg22.0000°,Azm150.0000° $M_0$9.70000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.9km az=69.5.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.4km az=10.0.
IDC Error ellipse: s-maj=10.0km s-min=5.2km az=8.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c292; s138,c402;Duration: 2$\pm$2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.72±.01 $M_{\theta\theta}$-0.62±.01; $M_{\phi\phi}$-0.10±.01; $M_{r\theta}$0.47±.01; $M_{\theta\phi}$-0.37±.01; $M_{\phi r}$0.24±.01; Best double couple: NP1:ϕ_s62.00000°,δ62.00000°,λ90.00000°. NP2:ϕ_s242.00000°,δ28.00000°,λ90.00000°. Principal axes: T 0.8860,Plg73.0000°,Azm332.0000°; N 0.0950,Plg0.0000°,Azm62.0000°; P -0.9810,Plg17.0000°,Azm152.0000° $M_0$0.93400×10^{18}

(92) Leeward Islands

ISC	**II**	**02 12 40 59.1–.36**	**17.36N–.03**	**63.45W–.03**	**162–2**	**5.0b**	**959**	**0-163**
TRN	II	02 12 40 57.5	17.54N	63.38W	166	5.1		**¶15998201**
ISCJB	II	02 12 40 58.0–.14	17.41N–.02	63.46W–.02	164–1	5.0b		
GCMT	II	02 12 40 58.8–.30	17.51N	63.54W	154–2	5.1W		
IDC	II	02 12 40 58.5–.56	17.28N	63.51W	159–5	4.9,4.6		
BJI	II	02 12 40 58.5	17.40N	63.50W	158	5.3b,4.6		
NEIC	II	02 12 40 59.2–.16	17.35N	63.47W	161–1	5.2b,5.1		
MOS	II	02 12 40 59.1–.90	17.42N	63.51W	171	5.0b,5.1		

ISC Event type fe.
TRN Event type fe. Felt in St. Maarten, Anguilla and St. Johns. V.I. MM Intensity II.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=37.6.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c32; s99,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.94±.11 $M_{\theta\theta}$4.64±.14; $M_{\phi\phi}$-2.70±.14; $M_{r\theta}$0.00±.11; $M_{\theta\phi}$1.27±.18; $M_{\phi r}$-2.10±.09; Best double couple: NP1:ϕ_s42.00000°,δ66.00000°,λ-149.00000°. NP2:ϕ_s299.00000°,δ61.00000°,λ-27.00000°. Principal axes: T 4.8730,Plg3.0000°,Azm170.0000°; N -0.3130,Plg51.0000°,Azm76.0000°; P -4.5600,Plg38.0000°,Azm262.0000° $M_0$4.71600×10^{16}
IDC Error ellipse: s-maj=9.5km s-min=7.8km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=219.0. Felt [IV] at Phillipsburg; [III] at Cole Bay, Cul de Sac and Princess Quarter; [II] at Marigot, Saint Martin. Felt [IV] at The Valley, Anguilla and [III] on Saint-Barthelemy. Felt [III] on Saint John and Tortola, Virgin Islands. Also felt on Saint Thomas. Felt [II] at San Juan, Puerto Rico. Felt widely in eastern Puerto Rico and as far as Tunapuna, Trinidad.
MOS Error ellipse: s-maj=10.6km s-min=5.1km az=126.6.

(543) Germany

ISC	**II**	**02 17 23 44.2–.71**	**51.49N–.02**	**6.49E–.02**	**0**		**353**	**0-8**
ISCJB	II	02 17 23 42.9–.28	51.45N–.02	6.35E–.02	0			**¶15998206**
CSEM	II	02 17 23 44.7–.18	51.50N	6.44E	1	3.7L		
BUG	II	02 17 23 45.5	51.48N	6.57E	1	3.0L		
BGR	II	02 17 23 46.9–.61	51.49N	6.57E	1	3.2L		
BNS	II	02 17 23 46.1–.80	51.51N	6.57E	1–17	2.9L		
LDG	II	02 17 23 46.1–.12	51.50N	6.58E	1	3.6,3.6L		
UCC	II	02 17 23 46.2–.36	51.47N	6.68E	3–6	2.9L,3.6L		
PRU	II	02 17 23 50.1	51.40N	6.77E	18	2.9L,3.6L		
STR	II	02 17 23 50.4–.29	51.30N	6.65E	10	3.2L,3.6L		

ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=2.5km s-min=1.7km az=140.8.
CSEM Event type ki. Error ellipse: s-maj=3.6km s-min=2.4km az=149.0.
GDNRW Event type fi.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=110.0.
BNS Event type ki.
LDG Event type sr. Error ellipse: s-maj=2.3km s-min=1.7km az=153.0. Suspected Mining induced.
UCC Event type ki.
STR Event type ke.

(135) Near coast of central Chile

ISC	**II**	**03 08 48 39.3–.70**	**36.50S–.06**	**72.9W–.10**	**25**	**4.0b**	**18**	**0-150**
GUC	II	03 08 48 33.6–.63	36.47S	73.87W	40–5	4.4L		**¶16339701**
IDC	II	03 08 48 36.7–1.2	36.36S	72.61W	0	4.2,4.1		
NEIC	II	03 08 48 42.6–1.4	36.38S	72.48W	40–12	4.4,4.1		

ISC Event type fe.
GUC Error ellipse: s-maj=2.8km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=33.4km s-min=26.0km az=65.0.
NEIC Event type fe. Error ellipse: s-maj=20.2km s-min=10.9km az=90.0. Felt [III] at Concepcion, Contulmo, Coronel, Curanilahue, Mulchen, Nacimiento, Penco and Talcahuano; [II] at Chillan, Coelemu, Los Angeles, Puerto Saavedra, Santa Barbara, Tome and Yumbel.

(124) Chile-Bolivia border region

ISC	**II**	**03 12 59 55.7–.58**	**20.33S–.03**	**69.17W–.06**	**94–5**	**4.4b**	**268**	**1-168**
SCB	II	03 12 59 53.0–.89	20.41S	69.59W	75	4.1L		**¶16328651**
ISCJB	II	03 12 59 54.0–.40	20.26S–.03	69.03W–.05	94–3	4.4b		
GUC	II	03 12 59 55.8–.43	20.38S	69.28W	94–3	4.8L		
IDC	II	03 12 59 56.2–.66	20.31S	69.00W	100–6	4.4,4.2		
NEIC	II	03 12 59 56.9–.28	20.26S	68.88W	100	4.4b,4.3W		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=86.6km s-min=18.5km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.6km az=174.7.
GUC Error ellipse: s-maj=0.9km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=8.3km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.6km az=78.0. Felt [V] at Mamina and Pica, [IV] at Huara and Pozo Almonte and [III] at Alto Hospicio and Iquique. Moment Tensor Solution. s9 Moment tensor: Scale 10^{15}Nm; M_{rr}-2.50 $M_{\theta\theta}$0.25 $M_{\phi\phi}$2.24 $M_{r\theta}$0.13 $M_{\theta\phi}$-0.92 $M_{\phi r}$-2.11 Best double couple: NP1:ϕ_s147.00000°,δ27.00000°,λ-110.00000°. NP2:ϕ_s350.00000°,δ65.00000°,λ-80.00000°. Principal axes: T 3.3100,Plg19.0000°,Azm73.0000°; N 0.0000,Plg9.0000°,Azm166.0000°; P -3.3200,Plg68.0000°,Azm279.0000°

$M_0$3.30000×10^{15}

(229) Off east coast of Honshu

ISC	**II**	**03 13 51 55.1–2.5**	**39.92N–.05**	**143.39E–.05**	**0–15**	**4.4b,3.6s**	**115**	**1-85**
NIED	II	03 13 51 00	39.90N	143.40E	23	4.4W,3.6s		**¶16008940**
IDC	II	03 13 51 55.5–.63	39.86N	143.30E	0	4.2,4.1		
JMA	II	03 13 51 56.9–.20	39.93N	143.37E	19–4	4.3,4.1		
ISCJB	II	03 13 51 56.7–1.1	39.92N–.04	143.38E–.05	20–7	4.2b,3.5s		
NEIC	II	03 13 51 57.9–3.1	39.93N	143.24E	15–19	4.5b,3.5s		
MOS	II	03 13 52 00.2–1.4	39.97N	143.21E	48	4.6b,3.5s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ24.00000°,λ40.00000°. NP2:ϕ_s36.00000°,δ75.00000°,λ109.00000°. $M_0$4.33000×10^{15}

IDC Error ellipse: s-maj=16.3km s-min=12.7km az=126.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.3km az=38.3.

NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=6.7km az=119.0. Recorded [1 JMA] in Iwate.

MOS Error ellipse: s-maj=8.6km s-min=5.5km az=93.1.

(78) Costa Rica

ISC	**II**	**03 15 21 57.6–.78**	**9.90N–.07**	**84.10W–.06**	**65–6**	**3.3b**	**30**	**0-141**
IDC	II	03 15 21 44.6–4.8	9.76N	83.15W	0	4.0,3.9L		**¶16328670**
NEIC	II	03 15 21 54.8–1.2	9.80N	83.86W	63–11	4.0,3.9L		
ISCJB	II	03 15 21 57.8–.45	9.92N–.07	84.12W–.06	69–5	3.4b,3.9L		
CASC	II	03 15 21 58.5–2.4	9.83N	84.14W	57–9	4.1,3.4L		

ISC Event type fe.

IDC Error ellipse: s-maj=104.1km s-min=66.9km az=6.0.

NEIC Event type fe. Error ellipse: s-maj=40.0km s-min=12.0km az=201.0. Felt at Escazu.

ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=4.7km az=37.1.

CASC Error ellipse: s-maj=5.7km s-min=5.1km az=-1.0.

(135) Near coast of central Chile

ISC	**II**	**03 16 01 52.7–.68**	**30.12S–.04**	**71.84W–.06**	**10**	**4.3b**	**35**	**1-154**
ISCJB	II	03 16 01 51.2–.62	29.96S–.03	71.90W–.06	10	4.5b		**¶16328635**
IDC	II	03 16 01 51.2–.90	30.09S	71.68W	0	4.3L,4.1		
NEIC	II	03 16 01 54.8–2.6	30.07S	71.66W	23–18	4.7b,4.4L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.9km az=175.4.

IDC Error ellipse: s-maj=34.0km s-min=21.7km az=108.0.

NEIC Event type fe. Error ellipse: s-maj=16.9km s-min=6.8km az=91.0. Felt [III] at Andacollo, Coquimbo, La Higuera, La Serena and Vicuna.

(162) South Island

ISC	**II**	**03 18 32 51.0–.78**	**43.26S–.03**	**172.10E–.03**	**20–2**	**4.1b**	**108**	**0-149**
ISCJB	II	03 18 32 48.9–.44	43.32S–.05	172.20E–.06	23–4	3.9b		**¶16005318**
BJI	II	03 18 32 48.4	43.07S	172.08E	12	5.9b,5.5s		
IDC	II	03 18 32 50.7–1.6	43.24S	172.02E	0	3.9,3.6		
NEIC	II	03 18 32 50.6	43.16S	172.03E	9	4.5L,4.1W		
WEL	II	03 18 32 50.5–.14	43.16S	172.02E	8–1	4.4L,4.2W		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=3.6km az=44.7.

IDC Error ellipse: s-maj=45.1km s-min=12.5km az=139.0.

NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s35 Moment tensor: Scale 10^{15}Nm; M_{rr}0.06 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.44 $M_{r\theta}$-0.05 $M_{\theta\phi}$-0.96 $M_{\phi r}$0.50 Best double couple: NP1:ϕ_s243.00000°,δ75.00000°,λ-175.00000°. NP2:ϕ_s152.00000°,δ85.00000°,λ-15.00000°. Principal axes: T 1.6900,Plg7.0000°,Azm198.0000°; N 0.1500,Plg74.0000°,Azm315.0000° ; P -1.8500,Plg14.0000°,Azm106.0000° $M_0$1.80000×10^{15}

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the Canterbury region, Maximum reported intensity MM 5.

(460) Wyoming

ISC	**II**	**03 19 10 06.2–.96**	**43.54N–.04**	**105.31W–.04**	**0**		**26**	**1-20**
ISCJB	II	03 19 10 04.7–.63	43.69N–.06	105.22W–.07	0			**¶17191612**
IDC	II	03 19 10 04.8–2.6	43.53N	105.41W	0	3.3,3.1		
NEIC	II	03 19 10 06.3–.61	43.62N	105.25W	0	3.0L,3.1		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=8.6km s-min=7.3km az=23.4.

IDC Error ellipse: s-maj=57.6km s-min=9.7km az=151.0.

NEIC Event type fm. Error ellipse: s-maj=9.1km s-min=7.5km az=177.0. 77 km [48 miles] SSE of Gillette. Suspected Mining explosion.

(456) Montana

ISC	**II**	**03 20 09 29.1–1.2**	**45.00N–.06**	**106.73W–.08**	**0**		**26**	**2-18**
IDC	II	03 20 09 32.5–1.1	45.14N	107.00W	0	3.5,3.3		**¶17191615**
NEIC	II	03 20 09 33.1–.93	45.22N	106.70W	0	3.0L,3.3		

ISC Event type sm.

IDC Error ellipse: s-maj=38.8km s-min=8.6km az=131.0.

NEIC Event type fm. Error ellipse: s-maj=11.8km s-min=9.5km az=120.0. 51 km [31 miles] NNE of Sheridan. Suspected Mining explosion.

(460) Wyoming

ISC	**II**	**03 22 01 27.9–.55**	**43.75N–.03**	**105.20W–.02**	**0**	**3.8b**	**84**	**1-90**
IDC	II	03 22 01 24.8–1.7	43.32N	105.15W	0	4.0b,3.9		**¶17191622**
ISCJB	II	03 22 01 26.8–.33	43.77N–.03	105.18W–.03	0	4.0b,3.9		
NEIC	II	03 22 01 28.3–.40	43.73N	105.22W	0	3.2L,3.9		

ISC Event type sm.

IDC Error ellipse: s-maj=45.1km s-min=8.9km az=153.0.

ISCJB Event type fm. Error ellipse: s-maj=3.7km s-min=2.9km az=177.6.

NEIC Event type fm. Error ellipse: s-maj=6.0km s-min=4.9km az=165.0. 66 km [41 miles] SSE of Gillette. Suspected Mining explosion.

(135) Near coast of central Chile

ISC	**II**	**03 23 35 30.0–1.5**	**36.41S–.04**	**73.27W–.07**	**16–9**	**4.0b**	**46**	**0-159**
IDC	II	03 23 35 27.9–.99	36.42S	73.11W	0	4.3L,4.1		**¶16328666**
ISCJB	II	03 23 35 29.7–1.0	36.41S–.04	73.25W–.09	27–7	4.0b,3.8s		
NEIC	II	03 23 35 30.0	36.47S	73.19W	23	4.1L,4.0b		
GUC	II	03 23 35 30.2–.49	36.47S	73.19W	23–3	4.1L,4.0b		

ISC Event type fe.

IDC Error ellipse: s-maj=31.5km s-min=18.8km az=72.0.

ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.6km az=15.3.

NEIC Event type fe. Felt [IV] at Arauco, Concepcion, Coronel, Lebu, Penco and Tome; [III] at Bulnes, Cabrero, Chiguayante, Chillan, Los Angeles and Nacimiento. After GUC.

GUC Error ellipse: s-maj=1.3km s-min=3.7km az=-1.0.

(159) North Island

WEL	**II**	**03 23 53 02.2–.10**	**40.74S**	**175.94E**	**28–0**	**3.7L**	**¶16007039**

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0. Felt from Manawatu to Wairarapa, maximum reported intensity MM 4.

(499) Oklahoma

ISC	**II**	**04 02 06 29.4–.80**	**35.48N–.02**	**97.40W–.01**	**10–5**		**105**	**0-7**
IASPE	II	04 02 06 28.9–.84	35.49N–.02	97.40W–.02	12–5			**¶601792990**
ISCJB	II	04 02 06 29.0–.32	35.49N–.01	97.39W–.02	7–2			
NEIC	II	04 02 06 29.0	35.48N	97.40W	5	2.6		

ISC Event type fe.

IASPE Event type fe. Error ellipse: s-maj=3.1km s-min=2.9km az=3.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.

ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=148.9.

NEIC Event type fe. Felt [III] at Oklahoma City and [II] at Choctaw. Also felt at Spencer. After TUL.

(162) South Island

WEL	**II**	**04 04 56 28.7–.08**	**43.63S**	**172.35E**	**5**	**4.6L,4.3W**		
NEIC	II	04 04 56 28.6	43.63S	172.36E	5	4.6L,4.3W		**¶16005322**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 6.

NEIC Event type fe. Felt in the Christchurch area. After WEL.

(162) South Island

WEL	**II**	**04 05 17 46.0–.12**	**43.64S**	**172.35E**	**9–1**	**3.8L**	**¶16007040**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=1.1km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(14) Kenai Peninsula

ISC	**II**	**04 05 33 23.6–.55**	**60.74N–.03**	**150.32W–.03**	**53–5**	**4.6b,3.7s**	**756**	**0-148**
BJI	II	04 05 33 17.0	60.70N	150.30W	38	5.2b,5.0s		**¶16002991**
ISCJB	II	04 05 33 22.7–.15	60.81N–.01	150.40W–.02	57–1	4.6b,3.8s		
MOS	II	04 05 33 22.6–.98	60.83N	150.51W	61	4.8b,3.8s		
IDC	II	04 05 33 23.0–1.7	60.87N	150.47W	45–16	4.5,4.5L		
NEIC	II	04 05 33 23.9	60.73N	150.28W	41	4.7b,4.6L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=1.7.

MOS Error ellipse: s-maj=13.7km s-min=5.7km az=92.0.

IDC Error ellipse: s-maj=14.2km s-min=8.9km az=21.0.

NEIC Event type fe. Felt [IV] at Cooper Landing; [III] at Anchorage, Chugiak, Eagle River, Palmer and Sterling; [II] at Girdwood, Kenai, Moose Pass, Seward, Soldotna and Wasilla. Also felt at Elmendorf AFB, Fort Richardson, Indian and Willow. After AEIC. Moment Tensor Solution. s68 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.18 $M_{\theta\theta}$0.01 $M_{\phi\phi}$0.17 $M_{r\theta}$-1.71 $M_{\theta\phi}$-1.29 $M_{\phi r}$6.45 Best double couple: NP1:ϕ_s268.00000°,δ10.00000°,λ-168.00000°. NP2:ϕ_s166.00000° ,δ88.00000°,λ-81.00000°. Principal axes: T 7.0800,Plg42.0000°,Azm247.0000° ; N -0.6100,Plg9.0000°,Azm346.0000°; P -6.4800,Plg46.0000°,Azm86.0000° $M_0$6.80000×10^{15}

(114) Off coast of Peru

ISC	**II**	**04 07 14 51.5–.69**	**11.32S–.07**	**77.9W–.10**	**50**	**3.9b**	**38**	**1-145**
ISCJB	II	04 07 14 49.0–.64	11.40S–.05	78.06W–.09	50	3.9b,3.1s		**¶16026090**
NEIC	II	04 07 14 48.0	11.27S	78.15W	41	4.2b,3.1s		
IDC	II	04 07 14 52.0–.69	11.23S	77.94W	54–5	4.1,4.0		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.4km az=153.3.

NEIC Event type fe. Felt [III] at Huacho and [II] at Lima. After ARE.

IDC Error ellipse: s-maj=19.5km s-min=6.3km az=48.0.

(235) Kyushu

ISC	**II**	**04 09 11 24.3–.40**	**31.06N–.03**	**131.49E–.03**	**33–1**	**4.7b,4.4s**	**306**	**0-124**
NIED	II	04 09 11 00	31.10N	131.50E	32	4.9W,4.4s		**¶16003935**
BJI	II	04 09 11 20.6	30.83N	131.78E	42	4.9b,4.6s		
MOS	II	04 09 11 23.7–1.0	31.10N	131.36E	44	5.0b,4.3s		
IDC	II	04 09 11 24.6–1.9	31.13N	131.39E	35–14	4.4,4.3		
JMA	II	04 09 11 24.4–.10	31.08N	131.52E	31–1	4.7,4.3		
ISCJB	II	04 09 11 24.2–.33	31.08N–.02	131.50E–.03	48–2	4.7b,4.3s		
NEIC	II	04 09 11 25.9–.47	31.07N	131.39E	48–4	4.9b,4.3s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ20.00000°,λ85.00000°. NP2:ϕ_s24.00000°,δ70.00000°,λ92.00000°. $M_0$2.13000×10^{16}

MOS Error ellipse: s-maj=8.3km s-min=5.0km az=103.9.

IDC Error ellipse: s-maj=13.8km s-min=9.5km az=85.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=40.2.

NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=4.2km az=127.0. Felt at Kagoshima. Recorded [3 JMA] in Kagoshima, [2 JMA] in Miyazaki and [1 JMA] in Kumamoto.

(228) Near east coast of eastern Honshu

JMA	**II**	**04 10 43 07.4–.10**	**39.11N**	**142.25E**	**58–1**	**3.6**		
NIED	II	04 10 43 00	39.10N	142.30E	26	3.7W		**¶600525331**

JMA Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ67.00000°,λ-171.00000°. NP2:ϕ_s276.00000°,δ82.00000°,λ-23.00000°. $M_0$4.61000×10^{14}

(238) Ryukyu Islands

ISC	**II**	**04 11 15 45.7–.31**	**29.23N–.03**	**130.38E–.03**	**46–2**	**5.6b,4.7s**	**1379**	**1-173**
NIED	II	04 11 15 00	29.20N	130.30E	35	5.3W,4.7s		**¶16003937**
BJI	II	04 11 15 39.8	28.97N	130.61E	35	5.2b,5.2b		
ISCJB	II	04 11 15 43.6–.26	29.24N–.01	130.29E–.02	37–2	5.5b,4.7s		
MOS	II	04 11 15 44.0–1.2	29.22N	130.25E	44	5.8b,4.4s		
JMA	II	04 11 15 44.7	29.21N	130.31E	72–2	5.0,4.4s		
NEIC	II	04 11 15 45.5–.37	29.18N	130.23E	42–3	5.7b,4.4s		
GCMT	II	04 11 15 45.5–.20	29.19N	130.37E	31–1	5.3W,4.4s		
IDC	II	04 11 15 45.9–.51	29.27N	130.22E	46–5	5.3,5.1		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ12.00000°,λ-66.00000°. NP2:ϕ_s188.00000°,δ79.00000°,λ-95.00000°. $M_0$1.13000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=139.1.

MOS Error ellipse: s-maj=5.7km s-min=3.6km az=103.2.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=133.0. Felt at Naha, Okinawa. Recorded [3 JMA] on Nakano-shima and Suwanose-jima; [2 JMA] on Akuseki-shima and Amami-oshima; [1 JMA] on Kikaiga-shima, Tanega-shima and Yaku-shima. Recorded [1 JMA] in Kagoshima, Kyushu.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s58,c91; s100,c175;Duration: 1$\dagger$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.02 $M_{\theta\theta}$0.06±.01; $M_{\phi\phi}$0.26±.02; $M_{r\theta}$0.15±.02; $M_{\theta\phi}$0.32±.01; $M_{\phi r}$1.03±.06; Best double couple: NP1:ϕ_s190.00000° ,δ81.00000°,λ-104.00000°. NP2:ϕ_s67.00000°,δ16.00000°,λ-34.00000°. Principal axes: T 1.1520,Plg35.0000°,Azm292.0000°; N -0.0490,Plg13.0000°,Azm192.0000° ; P -1.1030,Plg52.0000°,Azm84.0000° $M_0$1.12700×10^{17}

IDC Error ellipse: s-maj=8.8km s-min=6.2km az=101.0.

(95) Windward Islands

ISC	**II**	**04 12 16 55.4–.27**	**11.33N–.03**	**62.12W–.03**	**155–2**	**5.2b**	**2008**	**1-170**
ISCJB	II	04 12 16 53.8–.17	11.47N–.02	62.23W–.01	148–1	5.1b		**¶16005326**
NEIC	II	04 12 16 54.8–.20	11.32N	62.15W	149–1	5.3b,5.1		
MOS	II	04 12 16 54.0–.89	11.51N	62.29W	145	5.2b,5.1		
GCMT	II	04 12 16 54.8–.20	11.35N	61.96W	139–1	5.2W,5.1		
TRN	II	04 12 16 55.6	11.37N	61.83W	143	5.1,5.1		
FUNV	II	04 12 16 55.6	11.25N	61.90W	136	5.3W,5.1		
IDC	II	04 12 16 57.7–.81	11.47N	62.29W	170–6	5.3,4.9		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=155.7.

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.7km az=219.0. Felt at Ciudad Bolivar and Ciudad Guayana. Felt [IV] at Mucurapo; [III] at Arima, Chaguanas, Port of Spain and Saint Joseph; [II] at Couva, San Fernando, Tacarigua and Tunapuna, Trinidad. Felt [III] on Grenada and [II] on Saint Vincent. Also felt on Barbados and Saint Lucia.

MOS Error ellipse: s-maj=6.0km s-min=4.5km az=103.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c75; s108,c164; Duration: 1$\dagger$0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.30±.21 $M_{\theta\theta}$-4.55±.22; $M_{\phi\phi}$4.25±.23; $M_{r\theta}$5.46±.15; $M_{\theta\phi}$-1.74±.23; $M_{\phi r}$3.84±.16; Best double couple: NP1:ϕ_s42.00000°,δ89.00000° ,λ55.00000°. NP2:ϕ_s310.00000°,δ35.00000°,λ177.00000°. Principal axes: T 6.8280,Plg37.0000°,Azm282.0000°; N 2.2480,Plg35.0000°,Azm43.0000° ; P -9.0750,Plg34.0000°,Azm161.0000° $M_0$7.95100×10^{16}

TRN Event type fe. Felt widely in Trinidad MM intensitiesII,III, IV; Tobago II, Grenada MMI II,IV; St.Vincent MMI II, III; Saint Lucia MMI IV.

IDC Error ellipse: s-maj=7.5km s-min=5.9km az=107.0.

(249) Luzon

MAN	**II**	**04 12 17 19**	**15.67N**	**121.11E**	**10**	**4.7b,3.6L**	**¶601668510**

MAN Event type fe. INTENSITY II - PALAYAN CITY AND CABANATUAN CITY.

(134) Off coast of central Chile

ISC	**II**	**04 13 25 35.8–1.8**	**33.01S–.05**	**72.19W–.05**	**4–11**	**4.0b**	**49**	**1-156**
IDC	II	04 13 25 35.8–.93	32.97S	72.04W	0	4.3L,4.0		**¶16339708**
GUC	II	04 13 25 37.9–.42	33.12S	72.16W	25–6	3.8L,4.0		
NEIC	II	04 13 25 38.0	33.13S	72.16W	25	3.7L,4.0		
SJA	II	04 13 25 48.4–1.4	32.74S	71.38W	20	3.7L,4.0		

ISC Event type fe.

IDC Error ellipse: s-maj=32.3km s-min=21.7km az=87.0.

GUC Error ellipse: s-maj=2.0km s-min=1.9km az=-1.0.

NEIC Event type fe. Felt [II] at Quilpue and Vina del Mar. After GUC.

SJA Error ellipse: s-maj=6.1km s-min=14.4km az=-1.0.

(294) Myanmar-India border region

ISC	**II**	**04 13 53 46.3–.20**	**24.61N–.02**	**94.74E–.02**	**86–1**	**6.4b**	**2964**	**3-166**
BKK	II	04 13 53 31.3–1.3	25N–14	94E–8.0	12–19	7.3,6.4b		**¶602064405**
GCMT	II	04 13 53 44.2–.10	24.46N	94.68E	104–0	6.3W,6.4b		
MOS	II	04 13 53 44.4–1.0	24.59N	94.83E	86	6.5b,5.9s		
ISCJB	II	04 13 53 44.4–.28	24.63N–.01	94.69E–.01	79–2	6.3b,5.9s		
BJI	II	04 13 53 44.5	24.60N	94.70E	89	6.1b,6.1s		
NEIC	II	04 13 53 46.3–.09	24.62N	94.68E	85	6.4b,6.2W		
NEIC	II	04 13 53 47.0–.00	24.62N	94.74E	89	6.4b,6.2W		
IDC	II	04 13 53 47.0–.82	24.62N	94.85E	87–6	6.3,6.1		

ISC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c327; s138,c470;Duration: 3$\dagger$3 Moment tensor: Scale 10^{18} Nm; M_{rr}1.81±.02 $M_{\theta\theta}$-2.68±.02; $M_{\phi\phi}$0.86±.02; $M_{r\theta}$0.05±.02; $M_{\theta\phi}$1.47±.02; $M_{\phi r}$-1.37±.01; Best double couple: NP1:ϕ_s142.00000°,δ62.00000°,λ136.00000°. NP2:ϕ_s256.00000° ,δ52.00000°,λ36.00000°. Principal axes: T 2.9190,Plg50.0000°,Azm104.0000° ; N 0.3450,Plg39.0000°,Azm297.0000°; P -3.2640,Plg6.0000°,Azm201.0000° $M_0$3.09200×10^{18}

MOS Error ellipse: s-maj=5.9km s-min=3.0km az=126.9.
ISCJB Event type de. Error ellipse: s-maj=2.4km s-min=1.5km az=32.7.
NEIC Event type de. Error ellipse: s-maj=3.4km s-min=2.4km az=218.0. One person killed and several buildings and bridges damaged in the Monywa area, Myanmar. Felt strongly in the Maungdaw area. Also felt at Mandalay and Taunggyi. Slight damage occurred in Assam, Manipur and Nagaland, India. Felt [V] at Manipur and Shillong; [IV] at Agartala, Guwahati and Tezpur; [III] at Aizawl and Shiliguri; [II] at Calcutta. Felt throughout northeastern India. Felt [V] at Sylhet and [IV] at Chittagong and Dhaka, Bangladesh. Felt in much of Bangladesh. Also felt in Bhutan. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s77 Moment tensor: Scale 10^{18} Nm; M_{rr}1.69 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$-0.02 $M_{r\theta}$0.14 $M_{\theta\phi}$0.56 $M_{\phi r}$-1.26 Best double couple: NP1: ϕ_s134.00000°,δ60.00000°,λ121.00000°. NP2:ϕ_s264.00000°,δ42.00000°,λ49.00000°. Principal axes: T 2.3600,Plg62.0000°,Azm94.0000°; N -0.4300,Plg26.0000°,Azm298.0000° ; P -1.9200,Plg10.0000°,Azm203.0000° M_o2.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s128.00000°,δ61.00000°,λ118.00000°. NP2: ϕ_s260.00000°,δ40.00000°,λ50.00000°. Principal axes: T Plg63.0000°,Azm85.0000° ; N Plg0.0000°,Azm0.0000°; P Plg11.0000°,Azm198.0000°
NEIC Event type se. Moment Tensor Solution. s51 Moment tensor: Scale 10^{18}Nm; M_{rr}1.88 $M_{\theta\theta}$-2.17 $M_{\phi\phi}$0.29 $M_{r\theta}$0.27 $M_{\theta\phi}$0.66 $M_{\phi r}$-0.97 Best double couple: NP1:ϕ_s126.00000° ,δ56.00000°,λ119.00000°. NP2:ϕ_s261.00000°,δ43.00000°,λ53.00000°. Principal axes: T 2.3400,Plg65.0000°,Azm91.0000°; N 0.0600,Plg24.0000°,Azm289.0000° ; P -2.4000,Plg7.0000°,Azm196.0000° M_o2.40000×10^{18}
IDC Error ellipse: s-maj=9.0km s-min=7.8km az=47.0.

(109) Near coast of northern Peru

NEIC	**II**	**04 14 25 22.0**	**9.66S**	**78.50W**	**58**	**4.2**		**¶602064407**

NEIC Event type fe. Felt [II] at Casma and Chimbote. After ARE.

(238) Ryukyu Islands

JMA	**II**	**04 15 01 59.2–.10**	**29.64N**	**129.78E**	**5–3**	**3.7**		**¶600525398**

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.

(60) Oaxaca

ISC	**II**	**04 17 32 01.1–.64**	**17.30N–.03**	**96.53W–.03**	**71–6**	**4.0b**	**156**	**0-63**
ISCJB	II	04 17 32 00.2–.27	17.23N–.03	96.55W–.02	79–3	3.9b		**¶16007679**
MEX	II	04 17 32 02.2–1.2	17.25N	96.56W	76–6	4.5		
NEIC	II	04 17 32 02.2	17.25N	96.56W	76	4.5,4.1b		
IDC	II	04 17 32 03.9–2.2	17.49N	96.23W	86–18	4.0,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.9km az=20.5.
MEX Error ellipse: s-maj=7.6km s-min=4.7km az=-1.0.
NEIC Event type fe. Felt at Oaxaca. After MEX.
IDC Error ellipse: s-maj=33.5km s-min=13.5km az=58.0.

(162) South Island

ISC	**II**	**04 20 02 25.6–1.2**	**42.50S–.03**	**173.86E–.03**	**4–9**		**102**	**0-150**
IDC	II	04 20 02 26.9–1.6	42.39S	173.65E	0	3.7,3.7L		**¶16007042**
ISCJB	II	04 20 02 27.8–.71	42.55S–.04	173.88E–.05	21–6	3.4s,3.3b		
NEIC	II	04 20 02 27.7	42.48S	173.77E	5	4.0L,3.3b		
WEL	II	04 20 02 27.2–.11	42.49S	173.79E	2	4.0L,3.8W		

ISC Event type fe.
IDC Error ellipse: s-maj=44.6km s-min=25.6km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=3.5km az=136.2.
NEIC Event type fe. Felt at Kaikoura. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(14) Kenai Peninsula

ISC	**II**	**04 23 56 36.1–1.0**	**59.18N–.04**	**151.50W–.04**	**57–10**		**100**	**0-66**
ISCJB	II	04 23 56 35.1–.29	59.18N–.03	151.47W–.05	71–5	3.1b		**¶16032003**
NEIC	II	04 23 56 37.0	59.18N	151.50W	51	3.2L		
IDC	II	04 23 56 40.6–8.9	59.49N	151.51W	91–72	3.1,3.0L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=139.8.
NEIC Event type fe. Felt at Homer. After AEIC.
IDC Error ellipse: s-maj=66.2km s-min=46.1km az=27.0.

(546) Austria

ISC	**II**	**05 01 06 36.3–1.1**	**47.16N–.01**	**14.13E–.02**	**5–10**		**133**	**1-4**
CSEM	II	05 01 06 35.7–.07	47.19N	14.13E	2	3.1L		**¶16008960**
VIE	II	05 01 06 35.7–.13	47.15N	14.13E	10–2	2.5L,1.6b		
PRU	II	05 01 06 36.6	47.17N	14.16E	1	2.5L,1.6b		
BGR	II	05 01 06 36.6–.34	47.13N	14.06E	10	2.1L,1.6b		
ROM	II	05 01 06 38.2–.36	47.07N	14.09E	10	2.5,2.1L		

ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=112.0.
VIE Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=176.0. felt 4 ems98 at Murau / Styria.
BGR Event type fe. Error ellipse: s-maj=5.6km s-min=3.3km az=74.0.
ROM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=171.0.

(228) Near east coast of eastern Honshu

ISC	**II**	**05 01 56 12.2–.34**	**34.78N–.02**	**140.56E–.03**	**53–2**	**5.2b,4.2s**	**1165**	**0-162**
NIED	II	05 01 56 00	34.80N	140.70E	62	5.1W,4.2s		**¶16006253**
BJI	II	05 01 56 04.5	34.76N	140.97E	36	5.0b,4.8b		
MOS	II	05 01 56 11.1–.98	34.80N	140.44E	53	5.4b,4.0s		
ISCJB	II	05 01 56 12.7–.22	34.77N–.02	140.44E–.02	66–1	5.1b,4.0s		
JMA	II	05 01 56 12.0–.10	34.86N	140.62E	64–2	5.2,4.0s		
NEIC	II	05 01 56 13.9–.43	34.77N	140.35E	65–4	5.2b,4.0s		
GCMT	II	05 01 56 13.9–.20	34.70N	140.58E	54–1	5.1W,4.0s		
IDC	II	05 01 56 13.5–.85	34.82N	140.46E	60–7	5.0,4.8		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ30.00000°,λ-168.00000°. NP2:ϕ_s121.00000°,δ84.00000°,λ-61.00000°. M_o4.74000×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=147.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=128.0. Felt [IV] at Zushi and [III] at Tokyo, Yokohama and Yokosuka. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba; [3 JMA] in Kanagawa, Shizuoka and Tokyo; [2 JMA] in Ibaraki, Nagano, Saitama and Yamanashi; [1 JMA] in Fukushima, Gumma, Miyagi, Niigata and Tochigi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c59; s103,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.26±.22 $M_{\theta\theta}$4.95±.14; $M_{\phi\phi}$-3.69±.16; $M_{r\theta}$-2.74±.12; $M_{\theta\phi}$0.35±.13; $M_{\phi r}$2.06±.12; Best double couple: NP1:ϕ_s128.00000°,δ82.00000° ,λ-41.00000°. NP2:ϕ_s224.00000°,δ50.00000°,λ-170.00000°. Principal axes: T 6.0030,Plg21.0000°,Azm183.0000°; N -0.8330,Plg49.0000°,Azm299.0000° ; P -5.1700,Plg34.0000°,Azm78.0000° M_o5.58700×10^{16}
IDC Error ellipse: s-maj=9.5km s-min=5.3km az=83.0.

(221) Kuril Islands

ISC	**II**	**05 01 59 23.2–1.9**	**50.0N–.10**	**157.01E–.06**	**41**		**63**	**1-74**
KRSC	II	05 01 59 22.7–3.1	50.17N	157.36E	50–24	4.7L		**¶17191707**
MOS	II	05 01 59 22.7–2.5	50.17N	157.36E	51	4.3b		

ISC Event type se.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=30.4km s-min=5.6km az=80.6. Felt (II) at Severo-Kuril's. Moment Tensor Solution.

(162) South Island

WEL	**II**	**05 02 50 37.6–.07**	**43.57S**	**171.62E**	**5**	**3.8L**		
NEIC	II	05 02 50 37.5	43.57S	171.63E	5	3.8L		**¶16007043**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(13) Kodiak Island region

ISC	**II**	**05 05 27 50.0–.41**	**57.64N–.04**	**153.57W–.03**	**47–3**	**4.5b,3.5s**	**542**	**0-151**
MOS	II	05 05 27 47.2–.95	57.70N	153.91W	35	4.9b,3.5s		**¶16006258**
ISCJB	II	05 05 27 49.6–.24	57.75N–.02	153.56W–.03	53–2	4.5b,3.6s		
IDC	II	05 05 27 50.0–.64	57.80N	153.71W	42–4	4.2,4.1		
BJI	II	05 05 27 49.0	58.50N	154.42W	25	5.1b,5.0s		
NEIC	II	05 05 27 50.3	57.59N	153.56W	43	4.5b,4.3W		

ISC Event type fe.
MOS Error ellipse: s-maj=11.9km s-min=5.1km az=85.6.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=13.4.
IDC Error ellipse: s-maj=15.3km s-min=9.0km az=26.0.
NEIC Event type fe. Felt [II] at Kodiak. After AEIC. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.69 $M_{\theta\theta}$1.82 $M_{\phi\phi}$-0.13 $M_{r\theta}$2.54 $M_{\theta\phi}$-0.18 $M_{\phi r}$1.93 Best double couple: NP1:ϕ_s241.00000°,δ77.00000°,λ-106.00000°. NP2:ϕ_s114.00000°,δ20.00000°,λ-39.00000°. Principal axes: T 3.3400,Plg31.0000°,Azm344.0000°; N 0.5600,Plg16.0000°,Azm244.0000° ; P -3.8900,Plg55.0000°,Azm131.0000° M_o3.70000×10^{15}

(656) Southeastern Siberia

ISC	**II**	**05 12 42 15.1–.53**	**50.70N–.03**	**135.10E–.03**	**10**	**3.7b**	**46**	**1-74**
ISCJB	II	05 12 42 13.0–.38	50.67N–.03	134.99E–.05	10	3.8s,3.7b		**¶17191738**
SKHL	II	05 12 42 14.5–.40	50.72N	134.99E	14–4	4.9b,4.0s		
MOS	II	05 12 42 15.9–2.0	50.64N	135.07E	15	4.2b,4.0s		
IDC	II	05 12 42 20.4–5.4	50.49N	134.95E	33–45	3.6,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.9km az=152.8.
SKHL Event type fe. Felt (III) at Dzhamku, Amgun', Harpichan; (II-III) at Gorniy, Solnechniy;. (II) at Komsomol'sk na Amure.
MOS Event type fe. Error ellipse: s-maj=14.2km s-min=10.3km az=108.6. Felt (III-IV) at Gorniy, Solnechniy; (III) at Dzhamku; (II-III) at Amgun', Kharpichan, Komsomol'sk-na-Amure. Moment Tensor Solution.
IDC Error ellipse: s-maj=20.7km s-min=17.7km az=121.0.

(135) Near coast of central Chile

ISC	**II**	**05 16 11 38.9–.25**	**37.65S–.04**	**73.48W–.05**	**23**	**5.4s,5.3b**	**622**	**1-177**
GUC	II	05 16 11 34.7–.71	37.76S	74.09W	27–4	5.5L,5.3b		**¶16007307**
IDC	II	05 16 11 35.2–.49	37.66S	73.49W	0	5.4,5.4s		
ISCJB	II	05 16 11 37.4–.17	37.69S–.03	73.45W–.05	23	5.4s,5.2b		
BJI	II	05 16 11 37.8	37.67S	73.88W	24	5.7s,5.6		
NEIC	II	05 16 11 38.0–.00	37.61S	73.38W	15	5.7s,5.6		
GCMT	II	05 16 11 39.7–.10	37.81S	73.84W	21–0	5.7W,5.6		
MOS	II	05 16 11 39.6–1.4	37.56S	73.51W	33	5.5s,5.4b		
NEIC	II	05 16 11 39.7–.93	37.62S	73.45W	29–6	5.8W,5.6W		

ISC Event type fe.
GUC Error ellipse: s-maj=2.7km s-min=8.9km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=11.8km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.4km az=155.3.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}2.55 $M_{\theta\theta}$0.22 $M_{\phi\phi}$-2.77 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.38 $M_{\phi r}$-5.68 Best double couple: NP1:ϕ_s181.00000° ,δ77.00000°,λ87.00000°. NP2:ϕ_s14.00000°,δ12.00000°,λ102.00000°. Principal axes: T 6.1600,Plg57.0000°,Azm88.0000°; N 0.2400,Plg3.0000°,Azm182.0000° ; P -6.4000,Plg32.0000°,Azm274.0000° M_o6.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s102,c170; s122,c260;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.31±.04 $M_{\theta\theta}$-0.02±.03; $M_{\phi\phi}$-2.29±.03; $M_{r\theta}$0.03±.05; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$-3.46±.11; Best double couple: NP1: ϕ_s180.00000°,δ73.00000°,λ88.00000°. NP2:ϕ_s9.00000°,δ17.00000°,λ98.00000°. Principal axes: T 4.1680,Plg62.0000°,Azm87.0000°; N -0.0180,Plg2.0000°,Azm181.0000° ; P -4.1500,Plg28.0000°,Azm272.0000° M_o4.15900×10^{17}
MOS Error ellipse: s-maj=16.1km s-min=7.6km az=100.1.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=5.9km az=59.0. Felt [V] at Angol, Canete, Concepcion, Los Alamos, Padre Las Casas, Renaico, Puerto Saavedra, San Pedro de la Paz, Temuco and Tolten; [IV] at Cabrero, Chiguayante, Coronel, Curanilahue, Hualpen, La Laja, Lebu, Los Angeles, Nacimiento, Parral, Penco, San Rosendo, Santa Barbara, Talcahuano, Tirua, Tome and Yumbel; [III] at Curacautin, Florida and Linares; [II] at Cauquenes and Romeral. Also felt at Arauco, Chillan and Santiago. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}1.69 $M_{\theta\theta}$0.49 $M_{\phi\phi}$-2.19 $M_{r\theta}$0.06 $M_{\theta\phi}$0.41 $M_{\phi r}$-2.38 Best double couple: NP1:ϕ_s178.00000°,δ70.00000°,λ96.00000°. NP2:ϕ_s342.00000° ,δ20.00000°,λ75.00000°. Principal axes: T 2.8300,Plg64.0000°,Azm97.0000° ; N 0.5300,Plg5.0000°,Azm356.0000°; P -3.3600,Plg25.0000°,Azm264.0000° M_o3.10000×10^{17}

(122) Near coast of northern Chile

ISC	**II**	**05 16 58 35.1–1.1**	**27.34S–.04**	**71.15W–.08**	**46–10**	**3.4b**	**44**	**0-151**
IDC	II	05 16 58 27.7–1.0	27.68S	70.77W	0	4.1,4.1L		**¶16339711**
NEIC	II	05 16 58 33.0	27.35S	70.69W	71	4.6,4.1L		
GUC	II	05 16 58 33.8–.57	27.36S	70.69W	71–3	4.6L,4.1L		
ISCJB	II	05 16 58 34.8–.62	27.31S–.03	71.08W–.07	55–6	3.5b,4.1L		
SJA	II	05 16 58 37.8–.66	27.49S	70.74W	183–16	3.9W,3.8L		

ISC Event type fe.
IDC Error ellipse: s-maj=37.6km s-min=28.9km az=121.0.
NEIC Event type fe. Felt [IV] at Copiapo and Tierra Amarilla; [III] at Caldera. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=10.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=4.5km az=2.0.
SJA Error ellipse: s-maj=6.9km s-min=12.6km az=-1.0.

(460) Wyoming

ISC	**II**	**05 21 00 13.9–.64**	**43.88N–.03**	**105.41W–.03**	**0**		**59**	**1-11**
ISCJB	II	05 21 00 11.8–.29	43.92N–.02	105.37W–.03	0			**¶17191760**
IDC	II	05 21 00 13.4–2.0	43.85N	105.55W	0	3.8,3.5		
NEIC	II	05 21 00 13.5–.58	43.88N	105.36W	0	3.1L,3.5		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.1km s-min=2.7km az=149.8.
IDC Error ellipse: s-maj=69.9km s-min=9.1km az=149.0.
NEIC Event type fm. Error ellipse: s-maj=8.7km s-min=7.7km az=113.0. 49 km [30 miles] SSE of Gillette. Suspected Mining explosion.

(227) Eastern Honshu

JMA	**II**	**05 22 25 04.0**	**35.92N**	**137.78E**	**11**	**3.7**		
NIED	II	05 22 25 00	35.90N	137.80E	20	3.6W		**¶16008974**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s145.00000°,δ84.00000°,λ-9.00000°. NP2:ϕ_s237.00000°,δ81.00000°,λ-174.00000°. Principal axes: T Plg2.0000°,Azm191.0000°; N Plg79.0000°,Azm291.0000°; P Plg11.0000° ,Azm101.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ70.00000°,λ-160.00000°. NP2:ϕ_s138.00000°,δ72.00000°,λ-21.00000°. M_o2.41000×10^{14}

(259) Mindanao

MAN	**II**	**05 22 45 53**	**8.45N**	**123.05E**	**33**	**6.0L,3.8b**		**¶601668516**

MAN Event type fe. INTENSITY II - MANUKAN ZAMBOANGA DEL NORTE.

(162) South Island

WEL	**II**	**06 00 52 37.9–.17**	**46.40S**	**169.40E**	**12**	**4.0L,3.5W**		
NEIC	II	06 00 52 38.0	46.39S	169.41E	12	4.1L,3.5W		**¶16007689**

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.4km az=90.0. Felt from Otago to Southland, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Southland. After WEL.

(12) Alaska Peninsula

ISC	**II**	**06 08 20 43.3–.29**	**55.60N–.03**	**161.24W–.02**	**40–2**	**4.8b,3.7s**	**577**	**0-153**
MOS	II	06 08 20 37.1–.89	55.08N	160.74W	34	5.1b,3.7s		**¶16007694**
IDC	II	06 08 20 39.0–.66	55.06N	160.51W	41–4	4.6,4.5b		
BJI	II	06 08 20 39.3	55.60N	161.30W	27	5.0b,4.9b		
ISCJB	II	06 08 20 42.6–.24	55.66N–.02	161.27W–.02	50–2	4.7b,3.8s		
NEIC	II	06 08 20 44.1–.23	55.69N	161.34W	43–2	4.6b,4.4L		

ISC Event type fe.
MOS Error ellipse: s-maj=14.1km s-min=5.6km az=93.4.
IDC Error ellipse: s-maj=14.7km s-min=8.3km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=167.2.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.3km az=152.0. Felt at Sand Point.

(74) Near coast of Nicaragua

ISC	**II**	**06 10 08 33.6–.98**	**12.29N–.06**	**87.93W–.05**	**60–8**	**4.4b**	**365**	**1-149**
IDC	II	06 10 08 26.3–1.1	12.51N	87.50W	0	4.2,4.0		**¶16024687**
CASC	II	06 10 08 30.2–1.7	12.18N	88.00W	23–6	4.5b,4.2		
ISCJB	II	06 10 08 31.7–.46	12.22N–.04	87.91W–.03	61–3	4.3b,4.2		
BJI	II	06 10 08 32.3	12.40N	87.70W	70	4.9,4.2		
NEIC	II	06 10 08 35.3–.72	12.37N	87.68W	70–6	4.5b,4.2		

ISC Event type fe.
IDC Error ellipse: s-maj=36.9km s-min=21.7km az=52.0.
CASC Error ellipse: s-maj=4.5km s-min=3.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=3.3km az=35.9.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=6.5km az=225.0. Felt at San Salvador, El Salvador.

(135) Near coast of central Chile

ISC	**II**	**06 15 16 46.3–.46**	**36.46S–.06**	**73.42W–.06**	**27**	**4.6b,4.0s**	**116**	**1-174**
IDC	II	06 15 16 41.5–.75	36.58S	73.37W	0	4.4,4.3		**¶16009144**
GUC	II	06 15 16 42.1–.46	36.46S	73.72W	15–5	4.8L,4.3		
ISCJB	II	06 15 16 44.8–.33	36.52S–.04	73.32W–.05	27	4.6b,4.0s		
NEIC	II	06 15 16 45.0–3.9	36.43S	73.25W	16–23	4.8L,4.7b		
BJI	II	06 15 16 45.0	36.40S	73.30W	16	5.3b,5.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=24.9km s-min=18.9km az=57.0.
GUC Error ellipse: s-maj=2.0km s-min=4.0km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.6km az=138.6.
NEIC Event type fe. Error ellipse: s-maj=13.7km s-min=7.3km az=68.0. Felt [IV] at Chiguayante, Concepcion and Hualpen; [III] at Arauco, Constitucion, Coronel, Empedrado, Penco, San Pedro de la Paz and Talcahuano; [II] at Angol, La Laja and Talca.

(233) Near south coast of western Honshu

ISC	II	06 15 36 15.9–1.0	34.89N–.03	133.00E–.03	6–8	3.4b	22	0-58
NIED	II	06 15 36 00	34.90N	133.00E	5	3.6W		¶17191799
IDC	II	06 15 36 14.5–1.2	34.78N	133.10E	0	3.4,3.3b		
ISCJB	II	06 15 36 15.5–.51	34.91N–.04	133.00E–.04	10–3	3.2b,3.0s		
JMA	II	06 15 36 15.7	34.89N	133.03E	9	3.6,3.0s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ59.00000°,λ10.00000°. NP2:ϕ_s211.00000°,δ81.00000°,λ149.00000°. M_o2.68000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=19.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.7km az=162.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ89.00000°,λ138.00000°. NP2:ϕ_s308.00000°,δ48.00000°,λ1.00000°. Principal axes: T Plg29.0000°,Azm164.0000°; N Plg48.0000°,Azm37.0000°; P Plg28.0000°,Azm271.0000°

(224) Hokkaido region

ISC	II	06 16 08 04.3–1.7	43.05N–.06	145.64E–.05	38–1	3.4b	35	0-45
IDC	II	06 16 07 52.1–7.0	43.03N	146.86E	0	3.5,3.5b		¶17191800
NIED	II	06 16 08 00	43.10N	145.60E	53	3.6W,3.5b		
MOS	II	06 16 08 02.4–.70	43.00N	145.55E	40	4.0b,3.5b		
ISCJB	II	06 16 08 03.7–.73	43.07N–.05	145.64E–.05	49–6	3.3b,3.5b		
SKHL	II	06 16 08 04.2–.60	43.08N	145.42E	40–3	4.9b,3.5b		
JMA	II	06 16 08 04.6–.10	43.09N	145.61E	47–1	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=118.7km s-min=52.2km az=108.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ49.00000°,λ34.00000°. NP2:ϕ_s231.00000°,δ65.00000°,λ134.00000°. M_o3.31000×10^{14}
MOS Error ellipse: s-maj=35.1km s-min=17.2km az=66.3.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.0km az=151.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(235) Kyushu

ISC	II	06 19 40 32.2–.32	31.22N–.03	130.41E–.03	148–2	4.7b	634	0-157
NIED	II	06 19 40 00	31.20N	130.40E	125	4.8W		¶16007786
BJI	II	06 19 40 29.6	30.98N	130.53E	153	4.9b,4.6b		
ISCJB	II	06 19 40 30.9–.19	31.21N–.02	130.39E–.02	145–1	4.6b,4.6b		
MOS	II	06 19 40 31.3–1.1	31.19N	130.36E	151	4.7b,4.6b		
IDC	II	06 19 40 32.3–.45	31.27N	130.39E	147–3	4.7,4.3		
JMA	II	06 19 40 32.7–.10	31.21N	130.41E	137–1	4.4,4.3		
NEIC	II	06 19 40 32.3–.15	31.20N	130.28E	150	4.7b,4.3		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ17.00000°,λ-178.00000°. NP2:ϕ_s166.00000°,δ89.00000°,λ-73.00000°. M_o1.58000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=145.1.
MOS Error ellipse: s-maj=7.1km s-min=4.7km az=97.7.
IDC Error ellipse: s-maj=8.2km s-min=6.5km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=136.0. Felt at Kanoya. Recorded [3 JMA] in Kagoshima and [1 JMA] in Kumamoto, Miyazaki, Oita and on Tanega-shima. Also recorded [1 JMA] on Ehime, Kochi, Tokushima and on Shodo-shima, Shikoku.

(45) California-Baja California border region

ISC	II	06 23 56 00.1–.81	32.62N–.02	115.94W–.02	14–5		113	0-10
ISCJB	II	06 23 55 59.9–.34	32.63N–.02	115.89W–.02	14–2			¶16007791
IASPE	II	06 23 56 00.1–.92	32.64N–.03	115.94W–.02	15–6			
NEIC	II	06 23 56 00.7	32.61N	115.94W	8	4.1L,4.0		
ECX	II	06 23 56 01.6–.53	32.63N	115.94W	4	4.1L,3.9		
MEX	II	06 23 56 01.8–.84	32.73N	115.91W	18–19	4.0,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=7.5.
IASPE Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=170.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
NEIC Event type fe. Felt at Alpine, Cathedral City, Chula Vista, El Centro, Laguna Niguel, Menifee, Palm Springs, Ramona and San Diego. After PAS.
ECX Error ellipse: s-maj=1.3km s-min=1.1km az=-1.0.
MEX Error ellipse: s-maj=22.5km s-min=4.6km az=-1.0.

(80) Panama-Costa Rica border region

ISC	II	07 05 46 25.7–.72	8.42N–.04	82.80W–.04	15–4	4.7b,3.8s	731	0-153
ISCJB	II	07 05 46 23.9–.17	8.53N–.03	82.72W–.02	10	4.6b,3.9s		¶16362978
MOS	II	07 05 46 24.6–1.1	8.45N	82.72W	16	5.0b,3.9s		
CASC	II	07 05 46 25.1–2.8	8.45N	82.85W	1–8	4.7b,4.5L		
NEIC	II	07 05 46 25.6–.29	8.41N	82.78W	10	4.7W,4.7b		
IDC	II	07 05 46 29.8–2.3	8.44N	82.90W	50–21	4.4,4.3		
BJI	II	07 05 46 29.0	8.60N	82.70W	34	5.3s,5.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.2km az=31.0.
MOS Error ellipse: s-maj=14.1km s-min=5.6km az=115.0.
CASC Error ellipse: s-maj=7.9km s-min=4.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.5km az=210.0. Felt [III] at Boquete, David and Panama, Panama. Also felt at Chiriqui Grande, Dolega, La Estrella, Puerto Armuelles and Volcan. Felt at Corredor, Golfito and San Vito, Costa Rica. Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ81.00000°,λ151.00000°. NP2:ϕ_s117.00000°,δ62.00000°,λ11.00000°. Principal axes: T 1.3500,Plg27.0000°,Azm336.0000°; N -0.3400,Plg60.0000°,Azm185.0000°; P -1.0100,Plg13.0000°,Azm72.0000°
IDC Error ellipse: s-maj=15.2km s-min=10.9km az=59.0.

(244) Taiwan

ISC	II	07 05 55 02.1–.71	24.11N–.01	121.70E–.02	12–4	4.5b,3.5s	317	0-148
NIED	II	07 05 55 00	24.10N	121.60E	5	4.4W,3.5s		¶16009146
ISCJB	II	07 05 55 01.7–.29	24.12N–.01	121.73E–.01	14–1	4.4b,3.6s		
JMA	II	07 05 55 01.2	24.09N	121.62E	7–1	4.4,3.6s		
BJI	II	07 05 55 01.0	24.17N	121.67E	10	4.6b,4.6L		
NEIC	II	07 05 55 01.2–.66	24.06N	121.71E	11–4	4.8b,4.6L		
MOS	II	07 05 55 02.7–.94	24.05N	121.87E	33	4.9b,4.6L		
TAP	II	07 05 55 02.0	24.12N	121.66E	14–0	4.6L,4.6L		
IDC	II	07 05 55 06.7–2.5	24.14N	121.87E	53–23	4.2,4.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ23.00000°,λ46.00000°. NP2:ϕ_s79.00000°,δ74.00000°,λ107.00000°. M_o4.98000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=44.2.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=109.0. Felt at Hualien and Taichung. Recorded [5 TAP] in Hualien, [4 TAP] in Yilan, [3 TAP] in Nantou, [2 TAP] in Taichung and [1 TAP] in Taoyuan. Moment Tensor Solution. s14 Moment tensor: Scale 10^{15} Nm; M_{rr}1.85 $M_{\theta\theta}$-1.40 $M_{\phi\phi}$-0.46 $M_{r\theta}$0.62 $M_{\theta\phi}$-2.14 $M_{\phi r}$-0.36 Best double couple: NP1: ϕ_s202.00000°,δ51.00000°,λ46.00000°. NP2:ϕ_s79.00000°,δ56.00000°,λ131.00000°. Principal axes: T 2.2900,Plg57.0000°,Azm47.0000°; N 0.8300,Plg33.0000°,Azm234.0000°; P -3.1300,Plg3.0000°,Azm142.0000° M_o2.80000×10^{15}
MOS Error ellipse: s-maj=12.3km s-min=7.1km az=100.4.
TAP B.
IDC Error ellipse: s-maj=14.7km s-min=12.6km az=77.0.

(706) Northern Sumatera

ISC	II	07 08 08 36.6–.25	0.85N–.02	98.80E–.03	81–1	5.2b	960	1-177
BJI	II	07 08 08 32.0	0.42N	98.86E	84	5.1b,4.9b		¶16168814
KLM	II	07 08 08 33.7	0.61N	98.45E	78	6.3s,5.3b		
GCMT	II	07 08 08 36.4–.20	0.78N	98.65E	96–2	5.1W,5.3b		
ISCJB	II	07 08 08 36.4–.24	0.83N–.02	98.78E–.02	91–2	5.1b,5.3b		
IDC	II	07 08 08 36.2–.40	0.90N	98.88E	77–2	5.0,4.7		
NEIC	II	07 08 08 36.4–.13	0.81N	98.82E	75	5.3b,4.7		
DJA	II	07 08 08 37.8–.20	1N–2.0	99E–2.0	68–2	5.6b,5.6		
MOS	II	07 08 08 37.3–1.1	0.95N	98.81E	95	5.3b,5.6		

ISC Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c86; s83,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.40±.14 $M_{\theta\theta}$-0.25±.13; $M_{\phi\phi}$-2.14±.15; $M_{r\theta}$-0.66±.08; $M_{\theta\phi}$0.23±.14; $M_{\phi r}$-4.59±.09; Best double couple: NP1:ϕ_s186.00000°,δ77.00000°,λ95.00000°. NP2:ϕ_s345.00000°,δ14.00000°,λ69.00000°. Principal axes: T 5.3340,Plg58.0000°,Azm103.0000°; N -0.3310,Plg5.0000°,Azm5.0000°; P -4.9950,Plg32.0000°,Azm272.0000° M_o5.16500×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=140.4.
IDC Error ellipse: s-maj=9.5km s-min=6.0km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=46.0. Felt at Padang, Pariaman and Padangsidempuan, Sumatra.
MOS Error ellipse: s-maj=7.3km s-min=4.0km az=111.7.

(135) Near coast of central Chile

ISC	II	07 15 54 06.3–1.2	37.63S–.06	74.0W–.10	35	3.7b,3.5s	18	1-160
ISCJB	II	07 15 54 02.8–1.1	37.63S–.05	74.2W–.10	33	3.8b,3.6s		¶16026100
GUC	II	07 15 54 02.3–.30	37.67S	74.09W	34–1	4.3L,3.6s		
IDC	II	07 15 54 06.8–1.5	37.39S	72.79W	0	4.0,3.9L		
NEIC	II	07 15 54 07.2–6.3	37.46S	73.60W	27–40	4.6b,4.3L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=6.4km az=8.3.
GUC Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=48.0km s-min=19.4km az=68.0.
NEIC Event type fe. Error ellipse: s-maj=44.6km s-min=15.5km az=76.0. Felt [III] at Concepcion, Lebu and Tirua; [II] at Angol, Coronel, Puren, San Pedro de la Paz and Talcahuano.

(193) Bougainville-Solomon Islands region

ISC	II	07 19 53 42.9–.22	7.09S–.03	155.32E–.03	415–1	5.9b	2014	4-163
BJI	II	07 19 53 40.5	7.05S	155.35E	415	6.2b,6.2b		¶16009379
ISCJB	II	07 19 53 41.7–.43	7.16S–.02	155.23E–.02	413–4	5.9b,6.2b		
MOS	II	07 19 53 41.5–1.2	7.00S	155.14E	411	5.9b,5.4s		
IDC	II	07 19 53 41.8–.54	7.13S	155.26E	403–5	6.2,5.4		
NEIC	II	07 19 53 42.0–.00	7.16S	155.28E	413	6.2,5.4		
NEIC	II	07 19 53 42.9–.12	7.15S	155.18E	415	6.4,6.4W		
DJA	II	07 19 53 43.7–.70	7S–3.0	155E–4.0	425–8	6.4b,6.2		
GCMT	II	07 19 53 44.2–.10	7.04S	155.34E	426–0	6.5W,6.2		
NEIC	II	07 19 53 57.5–.00	7.27S	155.02E	418	6.5W,6.2		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=29.6.
MOS Error ellipse: s-maj=6.4km s-min=5.3km az=95.2.
IDC Error ellipse: s-maj=6.5km s-min=5.0km az=68.0.
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{18}Nm; M_{rr}0.85 $M_{\theta\theta}$2.45 $M_{\phi\phi}$-3.30 $M_{r\theta}$2.24 $M_{\theta\phi}$0.68 $M_{\phi r}$-3.95 Best double couple: NP1:ϕ_s142.00000°,δ83.00000°,λ61.00000°. NP2:ϕ_s40.00000°,δ28.00000°,λ165.00000°. Principal axes: T 4.5800,Plg45.0000°,Azm25.0000°; N 1.4800,Plg28.0000°,Azm146.0000°; P -6.0500,Plg32.0000°,Azm256.0000° M_o5.30000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=4.1km az=116.0. Felt at Gizo. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}1.09 $M_{\theta\theta}$1.47 $M_{\phi\phi}$-2.56 $M_{r\theta}$2.36 $M_{\theta\phi}$0.49 $M_{\phi r}$-4.20 Best double couple: NP1:ϕ_s149.00000°,δ82.00000°,λ73.00000°. NP2: ϕ_s33.00000°,δ19.00000°,λ153.00000°. Principal axes: T 4.8000,Plg51.0000°,Azm40.0000°; N 0.9400,Plg17.0000°,Azm151.0000°; P -5.7400,Plg35.0000°,Azm253.0000° M_o5.30000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s15.00000°,δ14.00000°,λ135.00000°. NP2:ϕ_s150.00000°,δ80.00000°,λ80.00000°. Principal axes: T Plg54.0000°,Azm48.0000°; N Plg0.0000°,Azm0.0000°; P Plg34.0000°,Azm249.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s144,c349; s121,c213; Duration: 4$\hat{s}$1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.92±.02 $M_{\theta\theta}$2.94±.03; $M_{\phi\phi}$-3.86±.03; $M_{r\theta}$2.23±.03; $M_{\theta\phi}$0.69±.03; $M_{\phi r}$-4.63±.03; Best double couple: NP1:ϕ_s144.00000°,δ83.00000°,λ62.00000°. NP2:ϕ_s42.00000°,δ29.00000°,λ166.00000°. Principal axes: T 5.0430,Plg44.0000°,Azm26.0000°; N 1.9530,Plg28.0000°,Azm148.0000°; P -6.9930,Plg32.0000°,Azm258.0000° M_o6.01800×10^{18}
NEIC Event type se. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}1.03 $M_{\theta\theta}$2.66 $M_{\phi\phi}$-3.70 $M_{r\theta}$1.96 $M_{\theta\phi}$0.94 $M_{\phi r}$-4.18 Best double couple: NP1:ϕ_s144.00000°,δ82.00000°,λ62.00000°. NP2:ϕ_s39.00000°,δ29.00000°,λ163.00000°. Principal axes: T 4.4600,Plg46.0000°,Azm25.0000°; N 2.0300,Plg28.0000°,Azm148.0000°; P -6.5000,Plg31.0000°,Azm257.0000° M_o5.50000×10^{18}

(460) Wyoming

ISC	II	07 22 42 38.2–.59	43.47N–.02	105.24W–.02	0		75	1-68
ISCJB	II	07 22 42 38.0–.26	43.55N–.02	105.26W–.03	0	4.4b,3.1s		¶16342592
IDC	II	07 22 42 38.8–.97	43.51N	105.27W	0	4.2b,3.8		
NEIC	II	07 22 42 38.9–.45	43.55N	105.23W	0	3.3L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.0km s-min=2.7km az=142.0.
IDC Error ellipse: s-maj=19.9km s-min=8.9km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=5.9km s-min=5.8km az=99.0. 86 km [53 miles] SSE of Gillette. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC	II	08 03 21 57.7–.88	34.93N–.04	140.11E–.04	58–6	3.4b	31	0-66
NIED	II	08 03 21 00	35.00N	140.10E	47	3.7W		¶17191886
ISCJB	II	08 03 21 56.5–.52	34.92N–.04	140.11E–.05	63–4	3.3b		
JMA	II	08 03 21 56.7–.20	34.95N	140.14E	62–2	3.0		
IDC	II	08 03 21 58.1–2.2	34.86N	140.10E	62–27	3.4,3.4L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ32.00000°,λ133.00000°. NP2:ϕ_s180.00000°,δ67.00000°,λ67.00000°. M_o4.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=6.0km az=140.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.3km s-min=15.2km az=77.0.

(248) Philippine Islands region

ISC	II	08 04 08 36.7–.36	10.96N–.03	126.72E–.04	29–2	4.8b,4.1s	329	2-154
MOS	II	08 04 08 35.1–1.1	10.96N	126.74E	33	5.1b,4.1s		¶16009493
ISCJB	II	08 04 08 35.5–.98	11.01N–.02	126.73E–.03	33–7	4.7b,4.1s		
MAN	II	08 04 08 35	11.01N	126.65E	18	5.3b,4.5s		
BJI	II	08 04 08 37.9	10.95N	126.73E	57	4.9b,4.6b		
IDC	II	08 04 08 38.0–.50	10.96N	126.65E	45–4	4.5,4.4		
NEIC	II	08 04 08 39.2–.91	10.95N	126.68E	52–8	4.8b,4.4		
DJA	II	08 04 08 39.9–1.2	11N–6.0	127E–6.0	65–11	5.4b,4.9		

ISC Event type fe.
ISCJB Event type fe.
MAN Event type fe.
NEIC Event type fe. Felt [II PIVS] at Tacloban, Leyte.

(662) Sakhalin Island

ISC	II	08 05 40 50.0–1.1	52.98N–.04	142.47E–.04	11–8	3.9b,3.3s	41	1-80
SKHL	II	08 05 40 46.5–.80	52.93N	142.61E	10	4.6b,4.2s		¶16168817
ISCJB	II	08 05 40 48.3–.60	52.90N–.03	142.54E–.05	14–4	3.8b,3.4s		
IDC	II	08 05 40 48.6–.92	53.05N	142.54E	0	4.1,3.9b		
MOS	II	08 05 40 49.3–1.2	53.14N	142.56E	13	4.1b,3.9b		

ISC Event type ke.
SKHL Event type fe. Felt (II) at Okha.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.4km az=139.7.
IDC Error ellipse: s-maj=24.8km s-min=16.4km az=165.0.
MOS Event type fe. Error ellipse: s-maj=20.4km s-min=10.0km az=82.0. Felt (II) at Okha. Moment Tensor Solution.

(123) Northern Chile

ISC	II	08 13 03 30.5–.24	27.63S–.03	69.73W–.05	99–1	5.5b	573	1-177
MOS	II	08 13 03 27.3–.99	27.60S	69.60W	76	5.8b		¶16328776
SJA	II	08 13 03 28.2–.57	27.55S	69.97W	131–13	5.3L		
GUC	II	08 13 03 29.6–.87	27.56S	69.87W	105–4	5.7L		
NEIC	II	08 13 03 30.6–.14	27.62S	69.52W	95	5.5b,5.4W		
IDC	II	08 13 03 30.7–.36	27.55S	69.52W	99–2	4.7,4.5		
GCMT	II	08 13 03 30.6–.20	27.82S	69.96W	109–1	5.4W,4.5		
BJI	II	08 13 03 31.0	27.60S	69.50W	95	5.3b,4.5		
ISCJB	II	08 13 03 47.4–.29	28.35S–.06	68.5W–.10	101	5.5b,4.5		

ISC Event type fe.
SJA Moment Tensor Solution. NP1:ϕ_s357.21000°,δ78.00000°,λ-88.98000°.
NEIC Event type fe. Felt [V] at Chanaral, Copiapo and Tierra Amarilla; [IV] at Vallenar; [III] at Caldera, Coquimbo, Diego de Almagro, Freirina, Huasco, La Higuera and La Serena; [II] at Taltal. Also felt at La Ligua. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80 $M_{\theta\theta}$-0.61 $M_{\phi\phi}$1.40 $M_{r\theta}$0.50 $M_{\theta\phi}$-0.48 $M_{\phi r}$0.76 Best double couple: NP1:ϕ_s312.00000°,δ44.00000°,λ-150.00000°. NP2:ϕ_s200.00000°,δ70.00000°,λ-50.00000°. Principal axes: T 1.6800,Plg15.0000°,Azm262.0000°; N -0.2000,Plg37.0000°,Azm4.0000°; P -1.4900,Plg49.0000°,Azm153.0000° M_o1.60000×10^{17} Moment Tensor Solution. s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.87 $M_{\theta\theta}$-0.35 $M_{\phi\phi}$1.22 $M_{r\theta}$0.68 $M_{\theta\phi}$0.50 $M_{\phi r}$0.69 Best double couple: NP1:ϕ_s347.00000°,δ33.00000°,λ-137.00000°. NP2:ϕ_s219.00000°,δ68.00000°,λ-64.00000°. Principal axes: T 1.6700,Plg19.0000°,Azm291.0000°; N -0.2900,Plg24.0000°,Azm29.0000°; P -1.3800,Plg59.0000°,Azm165.0000° M_o1.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c146; s106,c180;Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm;

M_{rr}-0.31±.02 $M_{\theta\theta}$-0.62±.02; $M_{\phi\phi}$0.93±.03; $M_{r\theta}$0.36±.01; $M_{\theta\phi}$-0.72±.02; $M_{\phi r}$0.89±.02;
Best double couple: NP1:ϕ_s199.00000°,δ82.00000°,λ-44.00000°. NP2:ϕ_s296.00000°
,δ47.00000°,λ-169.00000°. Principal axes: T 1.5060,Plg23.0000°,Azm255.0000°
; N -0.1170,Plg45.0000°,Azm10.0000°; P -1.3890,Plg36.0000°,Azm147.0000°
$M_0$1.44700×10^{17}

ISCJB Event type fe.

(282) South of Jawa

ISC	**II**	**08 15 27 00.9–.40**	**10.07S–.04**	**113.87E–.04**	**59–2**	**5.3b,5.1s**	**636**	**2-154**
MOS	II	08 15 26 57.2–.77	9.84S	113.97E	36	5.7b,5.0s		**¶16012711**
BJI	II	08 15 26 59.0	10.00S	113.90E	56	5.5b,5.4b		
NEIC	II	08 15 27 00.1–.49	10.00S	113.88E	50–4	5.3b,5.4b		
DJA	II	08 15 27 00.5–.30	10S–3.0	114E–1.0	62–3	5.9,5.8b		
GCMT	II	08 15 27 00.1–.20	10.17S	113.86E	48–1	5.2W,5.8b		
ISCJB	II	08 15 27 00.5–.34	10.06S–.02	113.82E–.02	72–2	5.2b,5.8b		
IDC	II	08 15 27 01.8–2.4	9.89S	113.95E	63–22	5.1,4.8		

ISC Event type fe.
MOS Error ellipse: s-maj=9.8km s-min=5.8km az=115.2.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=208.0. Felt [III] at Karangkates. Also felt at Malang. Felt [II] at Denpasar, Kuta and Ubud, Bali.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c58; s96,c152; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.87±.24 $M_{\theta\theta}$3.31±.18; $M_{\phi\phi}$-5.19±.20; $M_{r\theta}$4.04±.17; $M_{\theta\phi}$-4.97±.16; $M_{\phi r}$-1.71±.18; Best double couple: NP1:ϕ_s65.00000°,δ68.00000°
,λ154.00000°. NP2:ϕ_s165.00000°,δ66.00000°,λ24.00000°. Principal axes:
T 8.5000,Plg33.0000°,Azm24.0000°; N -1.0280,Plg56.0000°,Azm207.0000°
; P -7.4820,Plg1.0000°,Azm115.0000° $M_0$7.99100×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=18.2.
IDC Error ellipse: s-maj=13.2km s-min=9.8km az=66.0.

(25) Vancouver Island region

ISC	**II**	**08 16 36 36.8–.94**	**48.56N–.02**	**123.11W–.02**	**51–5**		**163**	**0-24**
IDC	II	08 16 36 30.9–1.7	48.18N	123.42W	0	3.7,3.5L		**¶16012717**
ISCJB	II	08 16 36 35.6–.22	48.57N–.02	123.10W–.02	58–3	3.1b,3.5L		
PNSN	II	08 16 36 36.5	48.55N	123.10W	53	3.2,3.5L		
NEIC	II	08 16 36 36.5	48.55N	123.10W	53	3.2,3.5L		
PGC	II	08 16 36 36.1–.02	48.55N	123.14W	55–0	3.2L,3.5L		

ISC Event type fe.
IDC Error ellipse: s-maj=33.4km s-min=12.6km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=44.1.
PNSN Moment Tensor Solution. NP1:ϕ_s323.00000°,δ40.00000° NP2:ϕ_s175.00000°,δ55.00000°
Principal axes: T Plg8.0000°,Azm251.0000°; P Plg72.0000°,Azm136.0000°
NEIC Event type fe. Felt [III] at Olga and [II] at Anacortes, Bellingham, Eastsound, Friday Harbor, Oak Harbor, Port Angeles, Port Townsend and Sequim. Felt in the San Juan Islands and in the Puget Sound area as far as Seattle. Felt [IV] in the Victoria area and [II] at Abbotsford, Cowichan Valley, Duncan, Sooke and Vancouver, British Columbia. Also felt in the Gulf Islands. After SEA.
PGC Event type fe. 21km Ene of Victoria, Bc Vancouver Island, Canada Region Felt (III-IV) in Greater Victoria.

(212) Bonin Islands region

ISC	**II**	**08 16 42 44.1–.31**	**27.39N–.03**	**143.12E–.04**	**33–1**	**5.4b,5.1s**	**952**	**1-151**
NIED	II	08 16 42 00	27.40N	143.40E	8	5.4W,5.1s		**¶16012718**
IDC	II	08 16 42 38.9–.43	27.35N	143.19E	0	5.0,5.0		
JMA	II	08 16 42 39.8–.10	27.42N	143.45E	51	5.2,5.0		
NEIC	II	08 16 42 40.6–.11	27.30N	143.16E	10	5.4b,5.1s		
GCMT	II	08 16 42 40.6–.10	27.33N	143.26E	12	5.3W,5.1s		
MOS	II	08 16 42 41.7–1.1	27.40N	143.07E	26	5.6b,5.2s		
BJI	II	08 16 42 43.6	27.44N	142.84E	37	5.4b,5.3s		
ISCJB	II	08 16 42 45.1–.11	27.48N–.02	142.97E–.02	49	5.3b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ30.00000°,λ-61.00000°.
NP2:ϕ_s326.00000°,δ64.00000°,λ-106.00000°. $M_0$1.28000×10^{17}
JMA Event type fe.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c146; s134,c251;Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm;
M_{rr}-1.26±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$1.21±.01; $M_{r\theta}$0.24±.04; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-0.17±.04;
Best double couple: NP1:ϕ_s341.00000°,δ50.00000°,λ-102.00000°. NP2:ϕ_s179.00000°
,δ41.00000°,λ-76.00000°. Principal axes: T 1.2670,Plg5.0000°,Azm79.0000°
; N 0.0470,Plg9.0000°,Azm348.0000°; P -1.3110,Plg80.0000°,Azm197.0000°
$M_0$1.28900×10^{17}
ISCJB Event type fe.

(95) Windward Islands

ISC	**II**	**08 19 33 58.7–.92**	**13.87N–.03**	**60.38W–.05**	**47–9**	**4.1b,3.3s**	**129**	**1-84**
TRN	II	08 19 33 55.4	13.85N	60.34W	14	4.0,3.3s		**¶16328773**
NEIC	II	08 19 33 57.1	13.91N	60.34W	26	4.2b,4.0		
ISCJB	II	08 19 33 58.5–.39	13.88N–.02	60.40W–.04	61–3	4.1b,4.0		
FUNV	II	08 19 33 58.8	13.94N	60.09W	40	4.2W,4.0		
IDC	II	08 19 33 58.5–2.0	13.91N	60.36W	43–16	4.1,4.1		

ISC Event type fe.
TRN Event type fe. Felt in Saint Lucia MM Intensities II, III; St. Vincent II, III.
NEIC Event type fe. Felt [III] on Saint Lucia and [II] on Saint Vincent. After TRN.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=2.9km az=0.9.
IDC Error ellipse: s-maj=30.3km s-min=13.3km az=82.0.

(249) Luzon

ISC	**II**	**08 21 01 10.5–.54**	**18.12N–.03**	**120.80E–.04**	**74–5**	**4.5b**	**179**	**0-151**
MOS	II	08 21 01 05.1–1.2	17.83N	121.08E	57	4.8b		**¶16019919**
NEIC	II	08 21 01 07.5–.71	17.83N	121.01E	62–7	4.5b		
IDC	II	08 21 01 09.0–2.2	17.85N	121.02E	75–21	4.3,4.1		
ISCJB	II	08 21 01 09.8–.21	18.12N–.02	120.89E–.03	80–2	4.3b,4.1		
BJI	II	08 21 01 09.4	18.31N	121.02E	50	5.0b,4.7L		
MAN	II	08 21 01 10	18.06N	120.82E	57	5.7b,5.3s		
BKK	II	08 21 01 21.1–2.7	18N–15	121E–14	155–26	4.9b,4.2		

ISC Event type fe.
NEIC Event type fe. Felt [III PIVS] at Cabugao and Sinait; [II PIVS] at Batac, Burgos, Laoag, Pasuquin and Sarrat.
ISCJB Event type fe.
MAN Event type fe. INTENSITY III - SINAIT & CABUGAO ILOCOS SUR; INTENSITY II - BURGOS ILOCOS SUR; PASUQUIN ILOCOS NORTE; LAOAG CITY; BATAC AND SARRAT ILOCOS NORTE.

(115) Near coast of Peru

ISC	**II**	**08 22 01 16.3–.39**	**16.85S–.05**	**73.73W–.05**	**26**	**4.8b,4.1s**	**125**	**2-176**
SCB	II	08 22 00 51.9–1.1	16.58S	75.37W	31	5.0L,4.1s		**¶16016436**
IDC	II	08 22 01 12.8–.64	16.69S	73.59W	0	4.5,4.4		
ISCJB	II	08 22 01 14.6–.30	16.79S–.05	73.71W–.05	26	4.7b,4.0s		
NEIC	II	08 22 01 16.1–.90	16.79S	73.72W	21–6	5.0b,4.0s		
BJI	II	08 22 01 18.0	16.80S	73.60W	31	5.5b,5.5s		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=145.3km s-min=22.8km az=175.0.
IDC Error ellipse: s-maj=21.6km s-min=13.3km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=136.1.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=6.4km az=51.0. Felt at Camana.

(30) Off coast of Oregon

ISC	**II**	**08 22 02 01.5–.55**	**43.45N–.04**	**127.35W–.04**	**12–2**	**5.0b,4.6s**	**512**	**2-154**
BJI	II	08 22 01 56.6	43.40N	127.10W	10	5.5b,5.4s		**¶16013109**
MOS	II	08 22 01 59.7–1.1	43.55N	127.29W	10	5.2b,4.6s		
IDC	II	08 22 01 59.0–.52	43.46N	127.31W	0	4.7,4.6		
GCMT	II	08 22 02 01.9–.20	43.31N	127.48W	18–0	5.4W,4.6		
ISCJB	II	08 22 02 01.6–.71	43.53N–.02	127.20W–.02	20–5	4.9b,4.6s		
NEIC	II	08 22 02 01.9–.20	43.54N	127.31W	10	5.1b,4.6s		

ISC Event type fe.
MOS Error ellipse: s-maj=5.6km s-min=4.4km az=113.0.
IDC Error ellipse: s-maj=15.0km s-min=7.0km az=38.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c142; s125,c242; Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.06±.02 $M_{\theta\theta}$-0.96±.02; $M_{\phi\phi}$1.02±.02;
$M_{r\theta}$-0.13±.04; $M_{\theta\phi}$-1.06±.02; $M_{\phi r}$-0.14±.04; Best double couple: NP1:ϕ_s21.00000°,δ87.00000°
,λ-7.00000°. NP2:ϕ_s112.00000°,δ83.00000°,λ-177.00000°. Principal axes:
T 1.4850,Plg3.0000°,Azm67.0000°; N -0.0460,Plg82.0000°,Azm179.0000°
; P -1.4420,Plg7.0000°,Azm336.0000° $M_0$1.46300×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=144.8.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=219.0. Felt at Coos Bay and Gold Beach.

(81) Panama

ISC	**II**	**09 03 10 33.4–.63**	**9.74N–.06**	**79.61W–.06**	**56**	**3.8b**	**50**	**1-146**
CASC	II	09 03 10 22.7–2.3	9.65N	78.99W	14–14	4.3,4.1b		**¶16016438**
IDC	II	09 03 10 26.6–1.2	9.74N	79.72W	0	3.6,3.5		
ISCJB	II	09 03 10 31.2–.39	9.77N–.04	79.58W–.03	56	4.5s,3.6b		
BJI	II	09 03 10 32.7	9.70N	79.60W	35	4.6,3.6b		
NEIC	II	09 03 10 32.2–.57	9.75N	79.56W	35	4.2L,4.1b		

ISC Event type fe.
CASC Error ellipse: s-maj=10.6km s-min=7.9km az=-1.0.
IDC Error ellipse: s-maj=43.7km s-min=27.2km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.5km az=168.2.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=10.2km az=211.0. Felt [III] at Balboa and [II] at Ancon and Panama. Felt in Colon, Kuna Yala and Panama.

(277) Jawa

ISC	**II**	**09 04 25 56.2–.92**	**8.93S–.08**	**112.50E–.04**	**86–9**	**4.0b**	**56**	**1-74**
ISCJB	II	09 04 25 56.1–.46	8.87S–.07	112.50E–.03	101–5	3.9b		**¶16020140**
IDC	II	09 04 25 56.4–6.7	8.78S	112.40E	85–56	4.0,3.8		
NEIC	II	09 04 25 56.4–.67	8.92S	112.53E	85–12	4.2b,3.8		
DJA	II	09 04 25 57.3–.90	9S–4.0	113E–2.0	35–10	5.2b,4.6		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Blitar and Karangkates.

(720) Northwestern Kashmir

ISC	**II**	**09 04 36 40.0–.25**	**36.09N–.03**	**73.18E–.03**	**26**	**4.7b,4.1s**	**358**	**2-151**
IDC	II	09 04 36 35.4–.49	36.10N	73.19E	0	4.5L,4.5		**¶16013120**
NNC	II	09 04 36 38.7–3.0	36.20N	73.10E	0	5.1b,4.9		
ISCJB	II	09 04 36 38.4–.14	36.14N–.02	73.24E–.03	26	4.6b,4.1s		
BJI	II	09 04 36 38.4	36.18N	73.30E	24	4.9b,4.8b		
MOS	II	09 04 36 41.8–1.1	36.22N	73.28E	53	5.0b,4.1s		
NEIC	II	09 04 36 43.4–.68	36.24N	73.19E	54–6	4.9b,4.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=13.2km s-min=10.2km az=4.0.
NNC Event type se. Error ellipse: s-maj=27.0km s-min=22.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=157.8.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=98.4.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.4km az=169.0. Felt in Gilgit-Baltistan and at Balakot, Batgram, Chitral, Islamabad, Mansehra and Swat, Pakistan. Also felt at Kargil, India.

(81) Panama

ISC	**II**	**09 06 05 00.7–.50**	**9.77N–.04**	**79.57W–.04**	**36–1**	**4.5b,3.8s**	**454**	**1-152**
IDC	II	09 06 04 54.6–.49	9.71N	79.55W	0	4.5,4.4		**¶16016440**
ISCJB	II	09 06 04 58.6–.58	9.78N–.02	79.54W–.02	30–5	4.5b,3.8s		
CASC	II	09 06 05 00.6–1.8	9.69N	79.63W	34–5	4.8,4.6b		
NEIC	II	09 06 05 00.6–.21	9.66N	79.50W	35	4.7L,4.6b		
BJI	II	09 06 05 01.9	9.70N	79.60W	39	5.4b,5.2s		

ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=11.7km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=36.6.
CASC Error ellipse: s-maj=5.1km s-min=7.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=59.0. Felt [III] at Ancon, Balboa, Panama and San Miguelito. Also felt in Cocle, Colon, Kuna Yala and Panama.

(213) Volcano Islands region

ISC	**II**	**09 09 51 27.1–.30**	**24.81N–.03**	**141.21E–.04**	**206–2**	**5.0b**	**847**	**2-152**
BJI	II	09 09 51 22.9	24.70N	141.45E	198	5.1b,5.0b		**¶16397876**
ISCJB	II	09 09 51 25.5–.36	24.87N–.02	141.16E–.02	195–2	4.9b,5.0b		
MOS	II	09 09 51 25.7–.99	24.85N	141.03E	202	4.9b,5.0b		
IDC	II	09 09 51 27.5–.44	24.81N	141.18E	212–3	5.0,4.5		
GCMT	II	09 09 51 28.1–.20	24.80N	141.17E	197–1	5.2W,4.5		
NEIC	II	09 09 51 28.1–.14	24.81N	141.10E	210	5.1b,4.5		
JMA	II	09 09 51 28.1–.20	25.10N	141.65E	230	5.2,4.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=157.2.
MOS Error ellipse: s-maj=7.9km s-min=4.6km az=97.8.
IDC Error ellipse: s-maj=8.0km s-min=6.0km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c121; s112,c186; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.71±.13 $M_{\theta\theta}$-6.46±.15; $M_{\phi\phi}$-0.24±.17;
$M_{r\theta}$0.14±.14; $M_{\theta\phi}$2.19±.16; $M_{\phi r}$2.61±.14; Best double couple: NP1:ϕ_s306.00000°,δ51.00000°
,λ115.00000°. NP2:ϕ_s89.00000°,δ45.00000°,λ62.00000°. Principal axes:
T 7.6310,Plg70.0000°,Azm280.0000°; N -0.4380,Plg19.0000°,Azm110.0000°
; P -7.1870,Plg3.0000°,Azm19.0000° $M_0$7.40900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=150.0. Recorded [1 JMA] in the Chichijima-retto.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.0km az=-1.0.

(134) Off coast of central Chile

ISC	**II**	**09 11 16 15.7–1.5**	**37.63S–.07**	**74.4W–.10**	**10**		**21**	**1-46**
ISCJB	II	09 11 16 14.2–1.2	37.59S–.05	74.4W–.10	10	4.5b		**¶16160380**
GUC	II	09 11 16 22.1–.57	37.30S	74.18W	38–3	4.1L		
NEIC	II	09 11 16 22.0	37.30S	74.18W	38	4.5b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.2km s-min=6.7km az=166.7.
GUC Error ellipse: s-maj=4.5km s-min=5.9km az=-1.0.
NEIC Event type fe. Felt [III] at Lebu and Tirua and [II] at Arauco, Coronel, La Laja and Talcahuano. After GUC.

(265) Minahassa Peninsula, Sulawesi

ISC	**II**	**09 11 40 08.0–1.4**	**0.60S–.05**	**119.75E–.05**	**18–6**	**4.1b**	**33**	**0-62**
IDC	II	09 11 40 05.6–.96	0.50S	120.35E	0	4.1,4.1L		**¶16160381**
ISCJB	II	09 11 40 07.0–1.3	0.57S–.04	119.68E–.04	16–10	4.0s,4.0b		
DJA	II	09 11 40 08.2–.40	1S–3.0	120E–3.0	10	4.9b,4.5		
NEIC	II	09 11 40 13.6–1.3	0.79S	119.89E	68–13	4.0b,4.5		

ISC Event type fe.
IDC Error ellipse: s-maj=71.5km s-min=16.3km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.6km az=138.9.
NEIC Event type fe. Error ellipse: s-maj=17.5km s-min=10.4km az=76.0. Felt [III] at Palu.

(660) Sea of Japan

JMA	**II**	**09 13 52 26.8**	**36.19N**	**135.95E**	**16**	**3.3**		**¶600527417**

JMA Event type fe.

(122) Near coast of northern Chile

ISC	**II**	**10 02 12 25.8–.27**	**27.58S–.03**	**70.24W–.06**	**70–2**	**5.0b**	**544**	**0-177**
MOS	II	10 02 12 20.4–.98	27.66S	70.31W	33	5.4b		**¶16020158**
ISCJB	II	10 02 12 23.3–.35	27.56S–.02	70.13W–.04	60–3	4.9b,4.2s		
IDC	II	10 02 12 25.9–.34	27.59S	70.27W	71–2	4.7,4.4		
NEIC	II	10 02 12 25.0	27.62S	70.32W	62	5.1b,4.4		
GUC	II	10 02 12 25.5–.73	27.62S	70.32W	62–5	5.5L,4.4		
GCMT	II	10 02 12 25.0–.20	27.56S	70.62W	93–2	5.2W,4.4		
BJI	II	10 02 12 27.8	27.60S	70.30W	62	5.5s,5.2		

ISC Event type fe.
MOS Error ellipse: s-maj=15.1km s-min=8.1km az=104.8.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.4km az=174.1.
IDC Error ellipse: s-maj=12.5km s-min=11.0km az=65.0.
NEIC Event type fe. Felt [V] at Caldera, Copiapo and Tierra Amarilla; [IV] at Alto del Carmen, Freirina, Huasco and Vallenar; [III] at Chanaral, Diego de Almagro and La Higuera; [II] at Coquimbo and La Serena. Also felt at Vicuna. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=7.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c63; s98,c160; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.02 $M_{\theta\theta}$0.42±.02; $M_{\phi\phi}$-0.69±.02;
$M_{r\theta}$-0.28±.01; $M_{\theta\phi}$-0.55±.02; $M_{\phi r}$0.10±.02; Best double couple: NP1:ϕ_s244.00000°,δ71.00000°
,λ158.00000°. NP2:ϕ_s341.00000°,δ70.00000°,λ21.00000°. Principal axes:
T 0.8160,Plg29.0000°,Azm202.0000°; N 0.1050,Plg61.0000°,Azm24.0000°
; P -0.9200,Plg1.0000°,Azm293.0000° $M_0$0.86800×10^{17}

(364) Greece

ISC	**II**	**10 02 38 19.1–.32**	**38.935N–.01**	**21.08E–.01**	**16–2**	**4.1b,3.8s**	**761**	**0-122**
BJI	II	10 02 38 12.4	38.35N	20.85E	17	5.0b,4.7		**¶16017976**
IDC	II	10 02 38 16.7–.59	39.03N	21.25E	0	4.0,4.0		
MOS	II	10 02 38 18.8–1.3	38.91N	21.03E	28	4.4b,4.0		
PDG	II	10 02 38 18.8–.58	38.98N	21.05E	10–1	4.4,4.3L		
NEIC	II	10 02 38 19.1	38.96N	21.18E	17	4.5b,4.2L		
CSEM	II	10 02 38 19.3–.08	38.94N	21.07E	10	4.2L,4.2W		
THE	II	10 02 38 19.3	38.94N	21.14E	0–1	4.2L,4.2W		

ATH II 10 02 38 19.1 38.96N 21.18E 17–1 4.2L,4.2W
ISCJB II 10 02 38 19.2–.22 38.95N–.01 21.04E–.02 24–2 4.1b,3.8s
BEO II 10 02 38 20.1–.84 38.72N 20.89E 35–30 4.3,3.8s
ISC Event type fe.
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=28.0.
MOS Error ellipse: s-maj=6.7km s-min=3.6km az=84.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.8km az=0.0.
NEIC Event type fe. Felt at Preveza. After ATH.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=47.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=241.0.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=261.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=44.7.
BEO Event type ke.

(228) Near east coast of eastern Honshu

ISC II 10 03 10 58.4–1.1 37.02N–.05 141.32E–.07 43–9 3.8b 46 0-117
ISCJB II 10 03 10 57.6–.72 37.03N–.04 141.33E–.07 52–5 3.8b **¶16168831**
NIED II 10 03 11 00 37.10N 141.20E 44 4.0W
IDC II 10 03 11 00.4–1.9 36.98N 141.30E 63–17 3.9,3.8
JMA II 10 03 11 00.0–.10 37.06N 141.13E 49–1 4.1,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.5km az=22.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ44.00000°,λ4.00000°. NP2:ϕ_s34.00000°,δ87.00000°,λ134.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=12.7km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s32.00000°,δ71.00000°,λ95.00000°. NP2: ϕ_s198.00000°,δ20.00000°,λ77.00000°. Principal axes: T Plg64.0000°,Azm309.0000° ; N Plg4.0000°,Azm210.0000°; P Plg26.0000°,Azm118.0000°

(162) South Island

WEL II 10 03 16 35.4–.09 43.60S 172.41E 11–0 4.0L,3.6W
NEIC II 10 03 16 35.5 43.60S 172.40E 10 4.0L,3.6W **¶16019819**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.

(228) Near east coast of eastern Honshu

ISC II 10 04 20 15.1–2.1 36.64N–.04 141.47E–.05 16–13 4.0b,3.5s 62 1-147
NIED II 10 04 20 00 36.60N 141.30E 32 4.0W,3.5s **¶16136343**
IDC II 10 04 20 12.7–.58 36.62N 141.45E 0 4.1,4.0
ISCJB II 10 04 20 14.6–.84 36.62N–.03 141.49E–.04 25–5 4.0b,3.5s
NEIC II 10 04 20 16.7–1.9 36.59N 141.47E 28–14 4.4b,3.5s
JMA II 10 04 20 17.8–.10 36.66N 141.26E 47–2 4.3,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ11.00000°,λ-106.00000°. NP2:ϕ_s192.00000°,δ80.00000°,λ-87.00000°. $M_0$1.17000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=13.1km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=14.1.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(326) Southwestern Siberia

ISC II 10 05 35 17.0–.31 52.20N–.03 91.67E–.02 14–1 5.3b,5.1s 1273 1-163
BJI II 10 05 35 12.8 52.26N 91.68E 7 5.9L,5.9s **¶16018376**
NNC II 10 05 35 12.8–2.9 52.40N 91.87E 0 6.0,5.8b
IDC II 10 05 35 14.4–.37 52.18N 91.86E 0 5.0,5.0
MOS II 10 05 35 14.7–1.1 52.13N 91.76E 10 5.5b,5.1s
NEIC II 10 05 35 16.5–.10 52.14N 91.78E 10 5.4b,5.3W
GCMT II 10 05 35 16.5–.10 52.22N 91.76E 26–0 5.5W,5.3W
ASRS II 10 05 35 16.1–.26 52.23N 91.79E 15 5.6s,5.3W
ISCJB II 10 05 35 16.2–.07 52.15N–.01 91.77E–.02 18 5.3b,5.1s
OBM II 10 05 35 17.0–.09 52.04N 91.99E 2 5.8L,5.1s
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=30.8km s-min=22.8km az=57.0.
IDC Error ellipse: s-maj=10.9km s-min=6.6km az=175.0.
MOS Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=121.3. Felt (III-IV) at Abakan, Minusinsk, Sayanogorsk; (III) at Kansk, Kemerovo, Krasnoyarsk, Novokuznetsk; (II-III) at Barnaul, Novosibirsk, Tomsk. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.2km az=176.0. Felt [IV] at Sayanogorsk; [III] at Abakan, Minusinsk and Novokuznetsk; [II] at Barnaul, Biysk, Kemerovo, Krasnoyarsk, Novosibirsk and Tomsk. Also felt at Abaza, Belovo, Berdsk, Chernogorsk, Cheryomushki, Kol'tsovo, Kyzyl, Mezhdurechensk and Sosnovoborsk. Felt at Oskemen, Kazakhstan. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.46 $M_{\theta\theta}$-0.94 $M_{\phi\phi}$0.48 $M_{r\theta}$0.05 $M_{\theta\phi}$1.05 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s342.00000°,δ79.00000°,λ167.00000°. NP2:ϕ_s74.00000°,δ77.00000°,λ11.00000°. Principal axes: T 1.1000,Plg17.0000° ,Azm298.0000°; N 0.4000,Plg73.0000°,Azm122.0000°; P -1.5000,Plg1.0000°,Azm28.0000° $M_0$1.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c166; s125,c242; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13±.03 $M_{\theta\theta}$-1.21±.02; $M_{\phi\phi}$1.08±.03; $M_{r\theta}$0.23±.05; $M_{\theta\phi}$1.45±.02; $M_{\phi r}$-0.35±.05; Best double couple: NP1:ϕ_s341.00000°,δ88.00000° ,λ-168.00000°. NP2:ϕ_s251.00000°,δ78.00000°,λ-2.00000°. Principal axes: T 1.8100,Plg7.0000°,Azm115.0000°; N 0.1620,Plg78.0000°,Azm349.0000° ; P -1.9750,Plg10.0000°,Azm206.0000° $M_0$1.89200×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.7km az=5.7.
OBM Error ellipse: s-maj=1.6km s-min=0.7km az=171.0.

(12) Alaska Peninsula

ISC II 10 09 39 28.5–.32 58.37N–.04 154.29W–.03 95–2 4.8b 1051 0-161
BJI II 10 09 39 23.0 58.40N 154.20W 69 5.1b,5.1s **¶16019822**
MOS II 10 09 39 23.2–.99 58.40N 154.60W 59 5.1b,5.1s
ISCJB II 10 09 39 27.7–.14 58.48N–.02 154.38W–.02 97–1 4.8b,5.1s
IDC II 10 09 39 27.7–.57 58.48N 154.41W 86–4 4.8,4.6
GCMT II 10 09 39 29.8–.50 58.34N 154.25W 109–5 4.8W,4.6
NEIC II 10 09 39 29.8 58.30N 154.13W 78 4.9b,4.7W
ISC Event type fe.
MOS Error ellipse: s-maj=10.5km s-min=4.6km az=89.2.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=173.6.
IDC Error ellipse: s-maj=10.0km s-min=6.7km az=15.0.
GCMT Error ellipse: s-maj=7.8km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s72,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.64±.13 $M_{\theta\theta}$-2.10±.16; $M_{\phi\phi}$0.45±.15; $M_{r\theta}$-0.26±.11; $M_{\theta\phi}$-0.24±.13; $M_{\phi r}$1.07±.08; Best double couple: NP1:ϕ_s292.00000°,δ55.00000° ,λ129.00000°. NP2:ϕ_s58.00000°,δ50.00000°,λ48.00000°. Principal axes: T 2.2980,Plg59.0000°,Azm261.0000°; N -0.1710,Plg31.0000°,Azm87.0000° ; P -2.1300,Plg3.0000°,Azm356.0000° $M_0$2.21400×10^{16}
NEIC Event type fe. Felt [II] at Homer and Kodiak. Also felt at Anchor Point. After AEIC. Moment Tensor Solution. s26 Moment tensor: Scale 10^{16}Nm; M_{rr}1.24 $M_{\theta\theta}$-1.53 $M_{\phi\phi}$0.29 $M_{r\theta}$0.10 $M_{\theta\phi}$0.18 $M_{\phi r}$0.56 Best double couple: NP1:ϕ_s299.00000°,δ49.00000°,λ124.00000°. NP2: ϕ_s73.00000°,δ51.00000°,λ57.00000°. Principal axes: T 1.5100,Plg65.0000°,Azm277.0000° ; N 0.0400,Plg25.0000°,Azm95.0000°; P -1.5500,Plg1.0000°,Azm185.0000° $M_0$1.50000×10^{16}

(228) Near east coast of eastern Honshu

ISC II 10 11 36 17.3–.95 35.35N–.05 140.08E–.05 66–7 3.6b 29 0-59
ISCJB II 10 11 36 16.1–.54 35.34N–.04 140.10E–.05 73–4 3.5b **¶17192009**
JMA II 10 11 36 16.6–.20 35.42N 140.09E 66–2 3.0
IDC II 10 11 36 17.1–5.0 35.32N 140.13E 64–31 3.5,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.1km az=42.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=73.8km s-min=6.1km az=68.0.

(228) Near east coast of eastern Honshu

ISC II 10 13 03 03.5–.18 37.18N–.02 141.34E–.03 39–2 5.5b,4.9s 1792 0-164
NIED II 10 13 03 00 37.20N 141.40E 41 5.4W,4.9s **¶16019939**
BJI II 10 13 03 00.2 37.04N 141.41E 37 5.4b,5.3b
NEIC II 10 13 03 02.6–.10 37.15N 141.28E 33 5.5b,5.3W
MOS II 10 13 03 02.8–.81 37.42N 141.33E 36 5.7b,5.0s
GCMT II 10 13 03 02.6–.10 37.18N 141.55E 43–0 5.4W,5.0s
IDC II 10 13 03 03.5–.34 37.15N 141.36E 35–2 5.3,5.2
JMA II 10 13 03 03.6–.10 37.16N 141.41E 48–1 5.4,5.2
ISCJB II 10 13 03 03.7–.24 37.16N–.02 141.33E–.02 52–1 5.5b,4.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ19.00000°,λ96.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ88.00000°. $M_0$1.43000×10^{17}
NEIC Event type fe. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [4 JMA] in Fukushima; [3 JMA] in Ibaraki, Miyagi and Tochigi; [2 JMA] in Aomori, Chiba, Gumma, Iwate, Niigata, Saitama and Yamagata; [1 JMA] in Akita, Gifu, Kanagawa, Nagano, Shizuoka, Tokyo and Yamanashi. Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000° ,δ28.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ64.00000°,λ80.00000°. Principal axes: T 0.9500,Plg69.0000°,Azm269.0000°; N 0.4900,Plg9.0000°,Azm24.0000° ; P -1.4400,Plg19.0000°,Azm118.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c187; s115,c233;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.34±.02 $M_{\theta\theta}$-0.21±.02; $M_{\phi\phi}$-1.12±.02; $M_{r\theta}$0.43±.02; $M_{\theta\phi}$-0.58±.01; $M_{\phi r}$0.94±.02; Best double couple: NP1:ϕ_s25.00000°,δ64.00000°,λ89.00000°. NP2:ϕ_s207.00000° ,δ26.00000°,λ91.00000°. Principal axes: T 1.6860,Plg71.0000°,Azm294.0000° ; N 0.0650,Plg1.0000°,Azm25.0000°; P -1.7460,Plg19.0000°,Azm116.0000° $M_0$1.71600×10^{17}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ47.00000°,λ93.00000°. NP2:ϕ_s22.00000°,δ43.00000°,λ87.00000°. Principal axes: T Plg87.0000°,Azm159.0000°; N Plg2.0000°,Azm24.0000°; P Plg2.0000° ,Azm294.0000°
ISCJB Event type fe.

(262) Celebes Sea

ISC II 10 14 39 28.2–.20 4.13N–.02 123.06E–.03 533–1 6.2b 2747 2-175
MAN II 10 14 39 26 4.06N 123.15E 540 6.7b,6.7s **¶602064445**
KLM II 10 14 39 27.5 4.19N 123.24E 540 6.9L,6.9s
GCMT II 10 14 39 27.7–.10 4.14N 122.91E 521–0 6.5W,6.9s
NEIC II 10 14 39 27.7–.09 4.20N 122.97E 523 6.5W,6.5W
ISCJB II 10 14 39 27.9–.13 4.18N–.01 123.07E–.01 539–1 6.1b,6.5W
MOS II 10 14 39 27.7–1.1 4.22N 123.07E 535 6.2b,5.5s
IDC II 10 14 39 28.1–.38 4.16N 123.05E 527–4 6.4,5.5
BJI II 10 14 39 28.1 4.20N 123.20E 530 6.2b,6.2b
DJA II 10 14 39 28.3–.20 4N–2.0 123E–1.0 534–2 7.3,6.4b
NEIC II 10 14 39 28.0–.00 4.13N 123.02E 528 7.3,6.4b
ISC Event type fe.
MAN Event type fe. INTENSITY III - DAVAO CITY; INTENSITY II - GENERAL SANTOS CITY; KIDAPAWAN CITY.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s142,c358; s105,c186; Duration: 4s5 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.05±.04 $M_{\theta\theta}$1.49±.06; $M_{\phi\phi}$3.56±.07; $M_{r\theta}$-2.21±.06; $M_{\theta\phi}$2.00±.06; $M_{\phi r}$-5.52±.06; Best double couple: NP1:ϕ_s24.00000°,δ70.00000° ,λ-95.00000°. NP2:ϕ_s217.00000°,δ20.00000°,λ-78.00000°. Principal axes: T 7.5380,Plg25.0000°,Azm118.0000°; N 0.3460,Plg4.0000°,Azm26.0000° ; P -7.8840,Plg64.0000°,Azm287.0000° $M_0$7.71100×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=59.0. Felt [III] at Labuha and on Pulau Ternate, Indonesia. Felt [III PIVS] at Davao and [II PIVS] at General Santos and Kidapawan, Philippines. Also felt at Panabo. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.92 $M_{\theta\theta}$1.64 $M_{\phi\phi}$3.27 $M_{r\theta}$-2.79 $M_{\theta\phi}$3.13 $M_{\phi r}$-5.82 Best double couple: NP1:ϕ_s28.00000°,δ71.00000°,λ-98.00000°. NP2:ϕ_s230.00000° ,δ21.00000°,λ-69.00000°. Principal axes: T 8.6600,Plg25.0000°,Azm124.0000° ; N -0.6100,Plg7.0000°,Azm30.0000°; P -8.0700,Plg64.0000°,Azm286.0000° $M_0$8.40000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=148.8.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=116.7.
IDC Error ellipse: s-maj=6.4km s-min=4.7km az=64.0.
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.59 $M_{\theta\theta}$1.19 $M_{\phi\phi}$3.39 $M_{r\theta}$-2.18 $M_{\theta\phi}$1.44 $M_{\phi r}$-4.61 Best double couple: NP1:ϕ_s25.00000° ,δ69.00000°,λ-90.00000°. NP2:ϕ_s206.00000°,δ20.00000°,λ-88.00000°. Principal axes: T 6.4600,Plg25.0000°,Azm116.0000°; N 0.4800,Plg0.0000°,Azm26.0000° ; P -6.9400,Plg65.0000°,Azm295.0000° $M_0$6.70000×10^{18}

(262) Celebes Sea

ISC II 10 14 41 59.6–.24 4.05N–.02 123.03E–.03 531–2 6.2b 1885 3-176
KLM II 10 14 41 48.1 4.14N 122.98E 346 7.6s,6.5b **¶16020160**
BJI II 10 14 41 58.8 4.05N 123.15E 520 6.4b,6.4b
NEIC II 10 14 41 58.8–.15 4.08N 123.04E 525 6.6W,6.3b
MOS II 10 14 41 58.8–1.0 4.12N 123.04E 527 6.2b,5.6s
GCMT II 10 14 41 58.8–.20 4.22N 123.28E 518–1 6.5W,5.6s
ISCJB II 10 14 41 59.3–.22 4.10N–.02 123.07E–.02 534–2 6.2b,5.6s
MAN II 10 14 41 59 4.10N 123.28E 552 6.5b,6.5s
IDC II 10 14 42 00.2–.37 4.05N 123.02E 528–3 6.4,5.5
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.6km az=65.0. Felt at Manado and on Pulau Ternate, Indonesia. Felt [III] at Davao, Philippines. Also felt at General Santos and Panabo. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.06 $M_{\theta\theta}$1.95 $M_{\phi\phi}$2.11 $M_{r\theta}$-0.83 $M_{\theta\phi}$1.05 $M_{\phi r}$-7.98 Best double couple: NP1:ϕ_s9.00000°,δ79.00000° ,λ-97.00000°. NP2:ϕ_s222.00000°,δ13.00000°,λ-59.00000°. Principal axes: T 7.8800,Plg34.0000°,Azm105.0000°; N 1.6500,Plg7.0000°,Azm11.0000° ; P -9.5300,Plg56.0000°,Azm271.0000° $M_0$8.80000×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=4.3km az=120.3.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c148; s75,c113; Duration: 4s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.62±.09 $M_{\theta\theta}$0.83±.13; $M_{\phi\phi}$-1.45±.12; $M_{r\theta}$-1.47±.12; $M_{\theta\phi}$-0.12±.11; $M_{\phi r}$-7.01±.09; Best double couple: NP1:ϕ_s192.00000° ,δ86.00000°,λ93.00000°. NP2:ϕ_s337.00000°,δ5.00000°,λ55.00000°. Principal axes: T 6.8480,Plg49.0000°,Azm105.0000°; N 0.7840,Plg3.0000°,Azm12.0000° ; P -7.6350,Plg41.0000°,Azm280.0000° $M_0$7.24200×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=143.9.
IDC Error ellipse: s-maj=6.4km s-min=4.7km az=59.0.

(40) California-Nevada border region

ISC II 10 14 55 42.6–1.1 38.54N–.02 118.38W–.02 11–10 68 1-5
NEIC II 10 14 55 43.0 38.53N 118.38W 10 3.8L **¶16339718**
ISC Event type fe.
NEIC Event type fe. Felt at Hawthorne. After REN.

(135) Near coast of central Chile

ISC II 10 15 58 35.9–1.7 32.66S–.03 71.78W–.06 5–10 4.8b 132 1-171
ISCJB II 10 15 58 35.8–.26 32.69S–.03 71.91W–.04 10 4.8b **¶16022180**
IDC II 10 15 58 35.3–.68 32.76S 71.73W 0 4.7L,4.6
BJI II 10 15 58 35.8 32.60S 71.80W 9 5.6,5.6s
NEIC II 10 15 58 35.3–3.7 32.63S 71.78W 4–22 5.1L,4.8b
GUC II 10 15 58 38.3–.67 32.71S 71.89W 21–5 5.1L,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.8km az=149.7.
IDC Error ellipse: s-maj=24.8km s-min=18.5km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=15.8km s-min=7.7km az=79.0. Felt [IV] at Concon, La Ligua, Quilpue, Valparaiso, Villa Alemana, Vina del Mar and Zapallar; [III] at Curacavi, Los Andes, Nogales, Petorca, Puchuncavi, Puente Alto, Quillota, Quintero, San Felipe, Santiago and Tiltil; [II] at Calera de Tango, Mostazal, Navidad, Rancagua, Salamanca, San Antonio and Talagante.
GUC Error ellipse: s-maj=2.1km s-min=4.1km az=-1.0.

(613) Hawaiian Islands

NEIC II 10 18 30 12.0 19.38N 155.24W 4 3.8 ¶16358564
NEIC Event type fe. Felt [III] at Volcano and [II] at Hawaii National Park. Also felt at Hilo, Mountain View and Papa'ikou. After HVO.

(456) Montana

ISC II 10 19 50 08.4–.98 45.95N–.06 106.90W–.06 0 23 2-17
IDC II 10 19 50 07.8–1.1 45.80N 107.00W 0 3.2,3.1 **¶17192035**
NEIC II 10 19 50 10.3–.75 45.85N 106.66W 0 2.7L,3.1
ISC Event type sm.
IDC Error ellipse: s-maj=17.3km s-min=9.4km az=124.0.
NEIC Event type fm. Error ellipse: s-maj=12.0km s-min=8.8km az=139.0. 5 km [3 miles] SW of Colstrip. Suspected Mining explosion.

(238) Ryukyu Islands

ISC II 10 21 12 11.7–1.1 29.30N–.04 129.98E–.09 47–10 3.5b 28 1-75
ISCJB II 10 21 12 11.1–.45 29.32N–.04 130.0E–.10 59–5 3.5b **¶17192037**
JMA II 10 21 12 11.5–.10 29.33N 129.99E 53–4 3.4
IDC II 10 21 12 13.8–1.4 29.28N 129.86E 68–13 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=4.3km az=21.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=8.4km az=107.0.

(115) Near coast of Peru

ISC II 11 00 21 47.3–.79 13.56S–.08 76.15W–.09 55 4.1b 25 2-146

ISCJB II 11 00 21 45.4–.56 13.59S–.05 76.15W–.07 55 4.2b,2.9s ¶16342600
NEIC II 11 00 21 45.1–.62 13.57S 76.26W 35 4.1L,4.1b
IDC II 11 00 21 47.7–2.3 13.62S 76.35W 48–17 3.7,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.3km az=145.5.
NEIC Event type fe. Error ellipse: s-maj=16.1km s-min=7.9km az=62.0. Felt [II] at Chincha Alta, Pisco and Tambo de Mora.
IDC Error ellipse: s-maj=42.8km s-min=11.9km az=57.0.
(256) Leyte
ISC II 11 09 11 20.0–1.3 10.38N–.04 125.27E–.05 12–9 3.8b,3.4s 33 0-94
IDC II 11 09 11 18.2–.84 10.40N 125.38E 0 3.9,3.8b ¶16358581
NEIC II 11 09 11 19.9–.56 10.39N 125.54E 10 4.0b,3.8b
ISCJB II 11 09 11 20.8–.68 10.38N–.03 125.22E–.05 32–5 3.7b,3.2s
MAN II 11 09 11 20 10.43N 125.08E 8 4.8b,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=53.2km s-min=16.9km az=75.0.
NEIC Event type fe. Error ellipse: s-maj=31.5km s-min=10.2km az=81.0. Felt [III PIVS] at Saint Bernard and [II PIVS] at Libagon and San Juan.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.1km az=156.6.
MAN Event type fe. INTENSITY III - ST BERNARD SOUTHERN LEYTE; INTENSITY II - LIBAGON AND SAN JUAN SOUTHERN LEYTE.
(228) Near east coast of eastern Honshu
ISC II 11 09 59 15.1–.73 35.59N–.05 140.10E–.05 66–6 3.7b 43 0-92
NIED II 11 09 59 00 35.60N 140.10E 62 3.8W ¶602734465
ISCJB II 11 09 59 14.3–.36 35.50N–.04 140.06E–.05 77–3 3.6b
JMA II 11 09 59 14.4–.20 35.58N 140.09E 70–2 3.7
IDC II 11 09 59 15.3–1.5 35.46N 140.13E 70–15 3.7,3.6
ISC Event type fe.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s283.00000°,δ31.00000°,λ79.00000°. NP2:ϕ_s115.00000°,δ60.00000°,λ96.00000°. $M_0$6.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.9km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s138.00000°,δ68.00000°,λ107.00000°. NP2: ϕ_s279.00000°,δ28.00000°,λ54.00000°. Principal axes: T Plg63.0000°,Azm75.0000° ; N Plg16.0000°,Azm311.0000°; P Plg21.0000°,Azm215.0000°
IDC Error ellipse: s-maj=21.2km s-min=6.6km az=68.0.
(135) Near coast of central Chile
ISC II 11 20 05 28.9–.39 36.46S–.03 73.16W–.04 13–2 7.1s,6.0b 1616 0-178
ISCJB II 11 20 05 26.7–.93 36.40S–.02 73.05W–.04 6–5 7.1s,6.0b ¶602064448
GUC II 11 20 05 26.8–.68 36.68S 73.59W 21–10 6.9L,6.8W
IDC II 11 20 05 29.4–1.9 36.55S 73.24W 19–11 6.8s,6.8
NEIC II 11 20 05 30.9–.15 36.42S 72.96W 26 6.9L,6.9
GCMT II 11 20 05 30.8–.00 36.63S 73.56W 18–0 6.8W,6.9
BJI II 11 20 05 31.3 36.30S 73.00W 20 7.1,7.1s
NEIC II 11 20 05 31.0–.00 36.48S 73.40W 28 7.1,7.1s
MOS II 11 20 05 32.2–1.4 36.17S 73.10W 33 7.1s,6.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=166.6.
GUC Error ellipse: s-maj=6.2km s-min=7.3km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=9.4km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=74.0. Power outages occurred at Constitucion, Curanipe and Pelluhue. A local tsunami with a wave height of 0.3 meters observed at Talcahuano. Felt [VI] at Arauco, Cauquenes, Chanco, Colbun, Concepcion, Constitucion, Curico, Empedrado, La Laja, Linares, Longavi, Molina, Pelluhue, Retiro, Romeral, San Clemente, San Javier, Talca, Talcahuano and Yerbas Buenas; [V] at Angol, Chepica, Chillan, Iloca, Los Sauces, Melipeuco, Paredones, Parral, Rancagua, Renaico, Rio Claro, Santa Cruz and Yumbel; [IV] at Los Angeles, San Vicente and Vina del Mar; [III] at Santiago and Temuco. Felt in much of central Chile from La Ligua to Valdivia. Felt [II] at Buenos Aires, Argentina. Also felt at Cutral Co, Mendoza, Neuquen, San Carlos de Bariloche and San Juan. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 3 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$2.00000×10^{19} Moment Tensor Solution. s49 Moment tensor: Scale 10^{19}Nm; M_{rr}0.55 $M_{\theta\theta}$0.06 $M_{\phi\phi}$-0.61 $M_{r\theta}$0.33 $M_{\theta\phi}$-0.10 $M_{\phi r}$-1.55 Best double couple: NP1:ϕ_s169.00000°,δ80.00000°,λ82.00000°. NP2:ϕ_s28.00000° ,δ12.00000°,λ128.00000°. Principal axes: T 1.6900,Plg54.0000°,Azm70.0000° ; N 0.0000,Plg7.0000°,Azm171.0000°; P -1.6900,Plg35.0000°,Azm266.0000° $M_0$1.70000×10^{19}
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s139,c342; s136,c609;Duration: 2s^4 Moment tensor: Scale 10^{19} Nm; M_{rr}1.00±.01 $M_{\theta\theta}$-0.03±.00; $M_{\phi\phi}$-0.96±.01; $M_{r\theta}$0.03±.01; $M_{\theta\phi}$-0.13±.00; $M_{\phi r}$-2.09±.03; Best double couple: NP1:ϕ_s180.00000°,δ77.00000°,λ87.00000°. NP2:ϕ_s15.00000° ,δ13.00000°,λ104.00000°. Principal axes: T 2.3300,Plg57.0000°,Azm86.0000° ; N -0.0320,Plg3.0000°,Azm181.0000°; P -2.2970,Plg32.0000°,Azm273.0000° $M_0$2.31300×10^{19}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{19}Nm; M_{rr}0.86 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-0.89 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.27 $M_{\phi r}$-3.02 Best double couple: NP1:ϕ_s169.00000° ,δ83.00000°,λ82.00000°. NP2:ϕ_s36.00000°,δ11.00000°,λ136.00000°. Principal axes: T 3.2800,Plg51.0000°,Azm70.0000°; N -0.1000,Plg7.0000°,Azm169.0000° ; P -3.1700,Plg37.0000°,Azm265.0000° $M_0$3.20000×10^{19}
MOS Error ellipse: s-maj=12.6km s-min=6.8km az=96.1. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s177.00000°,δ84.00000°,λ61.00000°. NP2: ϕ_s77.00000°,δ30.00000°,λ169.00000°. Principal axes: T Plg43.0000°,Azm58.0000° ; N Plg29.0000°,Azm180.0000°; P Plg33.0000°,Azm291.0000°
(135) Near coast of central Chile
ISC II 11 20 43 09.6–.47 36.60S–.05 73.29W–.07 27 4.6b 67 0-169
IDC II 11 20 43 05.6–.74 36.57S 73.36W 0 4.6L,4.5 ¶16245216
ISCJB II 11 20 43 08.2–.34 36.62S–.04 73.38W–.05 27 4.6b,4.5
GUC II 11 20 43 09.4–.74 36.63S 73.38W 19–21 4.3L,4.5
NEIC II 11 20 43 10.9–1.0 36.55S 73.20W 35–8 4.6b,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=15.8km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=144.4.
GUC Error ellipse: s-maj=2.1km s-min=17.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.8km s-min=5.7km az=77.0. Felt [III] at La Laja.
(460) Wyoming
ISC II 11 21 07 37.1–.59 43.62N–.02 105.29W–.02 0 134 1-62
IDC II 11 21 07 19.3–1.6 41.39N 104.89W 0 4.4b,3.9 ¶601793043
ISCJB II 11 21 07 36.9–.19 43.59N–.02 105.36W–.02 0 4.7b,3.9
NEIC II 11 21 07 37.9–.43 43.63N 105.26W 0 3.4L,3.9
ISC Event type sm.
IDC Error ellipse: s-maj=24.4km s-min=11.3km az=172.0.
ISCJB Event type fm. Error ellipse: s-maj=2.6km s-min=1.8km az=172.3.
NEIC Event type fm. Error ellipse: s-maj=6.0km s-min=5.1km az=37.0. 75 km [47 miles] SSE of Gillette. Suspected Mining explosion.
(135) Near coast of central Chile
ISC II 11 21 37 32.6–.57 36.66S–.06 73.52W–.07 27 4.4b 70 0-169
IDC II 11 21 37 28.5–.76 36.67S 73.54W 0 4.3,4.3 ¶16304905
GUC II 11 21 37 30.7–.64 36.66S 73.51W 5–49 4.2L,4.3
NEIC II 11 21 37 30.0 36.66S 73.51W 5 4.3b,4.2L
ISCJB II 11 21 37 31.5–.50 36.63S–.04 73.48W–.06 27 4.2b,4.2L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hualpen, San Pedro de la Paz and Talcahuano; [III] at Cauquenes, Concepcion, La Laja and Pelluhue; [II] at Angol, Curacautin, Lumaco, Padre Las Casas and Temuco. After GUC.
ISCJB Event type fe.
(135) Near coast of central Chile
ISC II 11 21 45 58.9–.28 36.62S–.04 73.29W–.06 27 5.3b 666 0-178
ISCJB II 11 21 45 57.5–.18 36.54S–.04 73.19W–.06 27 5.5s,5.1b ¶16021294
GUC II 11 21 45 57.2–.66 36.66S 73.44W 18–9 4.9L,5.1b
NEIC II 11 21 45 57.0 36.66S 73.44W 18 5.3b,4.9L
IDC II 11 21 45 59.6–3.9 36.72S 73.34W 33–28 5.5,5.5s
MOS II 11 21 45 59.0–1.1 36.63S 73.25W 33 5.4b,5.5s
BJI II 11 21 46 00.6 36.50S 73.00W 29 5.9b,5.5s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.4km az=154.5.
GUC Error ellipse: s-maj=5.2km s-min=6.3km az=-1.0.
NEIC Event type fe. Felt [III] at La Laja. After GUC.
IDC Error ellipse: s-maj=20.7km s-min=12.4km az=68.0.
MOS Error ellipse: s-maj=16.8km s-min=7.7km az=103.8.
(135) Near coast of central Chile
ISC II 11 22 12 43.6–.50 36.62S–.05 73.44W–.06 27 4.4b 66 0-169
IDC II 11 22 12 40.0–.68 36.55S 73.27W 0 4.3,4.2 ¶16328807
GUC II 11 22 12 41.5–.55 36.67S 73.51W 11–13 4.5L,4.2
NEIC II 11 22 12 41.0 36.67S 73.51W 11 4.7b,4.5L
ISCJB II 11 22 12 42.2–.38 36.61S–.04 73.41W–.05 27 4.5b,4.5L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Concepcion, Coronel, Los Alamos, Penco and Tome. After GUC.
ISCJB Event type fe.
(135) Near coast of central Chile
ISC II 11 22 20 38.3–3.4 31.62S–.04 71.54W–.08 16–21 4.2b 39 1-84
GUC II 11 22 20 40.2–.42 31.62S 71.28W 31–3 4.0L ¶16342601
NEIC II 11 22 20 40.0 31.62S 71.28W 31 4.1b,4.0L
ISC Event type fe.
GUC Error ellipse: s-maj=1.5km s-min=11.1km az=-1.0.
NEIC Event type fe. Felt [II] at Illapel and Salamanca. After GUC.
(135) Near coast of central Chile
ISC II 11 23 39 21.2–.37 37.24S–.03 73.49W–.05 17–1 5.7s,5.5b 935 0-178
GUC II 11 23 39 16.6–.87 37.12S 74.25W 38–12 5.3L,5.5b ¶16021297
ISCJB II 11 23 39 18.4–1.5 37.09S–.03 73.26W–.05 3–9 5.8s,5.3b
IDC II 11 23 39 18.6–.41 37.20S 73.40W 0 5.7,5.7s
GCMT II 11 23 39 21.3–.10 37.45S 74.11W 16–0 6.0W,5.7s
NEIC II 11 23 39 21.3–.19 37.20S 73.20W 15 5.9W,5.7s
BJI II 11 23 39 22.5 37.10S 73.30W 15 6.0b,6.0s
MOS II 11 23 39 23.5–1.3 37.18S 73.31W 35 5.6b,5.6s
ISC Event type fe.
GUC Error ellipse: s-maj=19.0km s-min=10.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=159.1.
IDC Error ellipse: s-maj=13.0km s-min=8.1km az=95.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c162; s126,c325;Duration: 2s^4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.59±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$-1.01±.04; Best double couple: NP1: ϕ_s183.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s11.00000°,δ16.00000°,λ98.00000°. Principal axes: T 1.1970,Plg61.0000°,Azm90.0000°; N -0.0280,Plg2.0000°,Azm183.0000° ; P -1.1690,Plg29.0000°,Azm275.0000° $M_0$1.18300×10^{18}
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=72.0. Felt [V] at Arauco, Concepcion, Hualqui, Penco, Talcahuano and Yumbel; [IV] at Cabrero, Curanilahue, Hualpen, Los Angeles and Renaico; [III] at Angol, Collipulli, Constitucion, La Laja, Los Sauces, Padre Las Casas, Parral, Puren, Quirihue, Temuco and Tolten; [II] at Carahue, Curacautin, Tirua and Valdivia. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s54 Moment tensor: Scale 10^{17}Nm; M_{rr}6.93 $M_{\theta\theta}$-0.77 $M_{\phi\phi}$-6.17 $M_{r\theta}$-0.59 $M_{\theta\phi}$-1.39 $M_{\phi r}$-6.30 Best double couple: NP1:ϕ_s188.00000° ,δ67.00000°,λ86.00000°. NP2:ϕ_s18.00000°,δ24.00000°,λ99.00000°. Principal axes: T 9.4700,Plg68.0000°,Azm90.0000°; N -0.4900,Plg4.0000°,Azm190.0000° ; P -8.9800,Plg22.0000°,Azm281.0000° $M_0$9.20000×10^{17}
MOS Error ellipse: s-maj=18.2km s-min=7.6km az=104.6.
(135) Near coast of central Chile
ISC II 11 23 57 13.2–.73 36.68S–.06 73.36W–.08 27 4.0b 39 0-95
IDC II 11 23 57 10.6–1.4 36.38S 73.01W 0 4.0,3.9 ¶601516539
ISCJB II 11 23 57 12.0–.56 36.58S–.04 73.45W–.06 27 4.0b,3.9
GUC II 11 23 57 13.9–.49 36.59S 73.33W 7–7 4.2L,3.9
NEIC II 11 23 57 13.0 36.59S 73.33W 7 4.3b,4.2L
ISC Event type fe.
IDC Error ellipse: s-maj=38.1km s-min=27.4km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.3km az=160.4.
GUC Error ellipse: s-maj=1.3km s-min=8.1km az=-1.0.
NEIC Event type fe. Felt [III] at Cobquecura, Coelemu, Concepcion, Constitucion, Los Alamos, Penco, Quirihue, San Pedro de la Paz, Talca, Talcahuano and Tome; [II] at Cauquenes, Florida, Los Angeles, Parral and Yumbel. After GUC.
(135) Near coast of central Chile
ISC II 12 00 43 53.8–.70 36.73S–.04 73.38W–.08 27 4.0b 38 0-159
IDC II 12 00 43 51.8–1.5 35.99S 73.26W 0 4.1,3.9 ¶16328816
ISCJB II 12 00 43 52.5–.55 36.64S–.05 73.41W–.05 27 4.0b,3.9
GUC II 12 00 43 53.0–.50 36.61S 73.36W 7–8 4.0L,3.9
NEIC II 12 00 43 53.0 36.61S 73.36W 7 4.1b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=58.1km s-min=28.6km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.3km az=9.5.
GUC Error ellipse: s-maj=1.3km s-min=9.4km az=-1.0.
NEIC Event type fe. Felt [II] at Concepcion and Penco. After GUC.
(12) Alaska Peninsula
ISC II 12 00 50 49.4–1.3 58.85N–.03 157.72W–.05 23–14 3.3b 83 1-47
ISCJB II 12 00 50 48.7–.63 58.90N–.02 157.75W–.06 24–6 3.1b ¶16032008
NEIC II 12 00 50 49.4 58.87N 157.72W 22 3.7L
IDC II 12 00 51 04.5–6.2 58.98N 154.60W 0 3.7,3.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=20.8.
NEIC Event type fe. Felt at Dillingham. After AEIC.
IDC Error ellipse: s-maj=100.6km s-min=16.0km az=79.0.
(136) Central Chile
ISC II 12 01 17 00.7–.22 37.00S–.03 73.16W–.06 10 5.9s,5.4b 977 0-177
IDC II 12 01 16 57.8–.46 37.21S 73.70W 0 5.9,5.9s ¶16021304
ISCJB II 12 01 17 00.1–.17 37.03S–.04 73.09W–.06 10 5.9s,5.3b
GUC II 12 01 17 00.6–.40 36.96S 74.16W 25–2 5.9L,5.3b
NEIC II 12 01 17 01.4–.22 37.03S 72.95W 16 6.1W,5.9L
GCMT II 12 01 17 01.4–.10 37.35S 74.00W 14–0 6.0W,5.9L
BJI II 12 01 17 02.7 37.10S 73.00W 16 6.2s,6.1
MOS II 12 01 17 03.1–1.5 37.12S 73.37W 33 5.9s,5.5b
ISC Event type fe.
IDC Error ellipse: s-maj=18.2km s-min=12.2km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.4km az=151.2.
GUC Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=6.2km az=66.0. Felt [VI] at Concepcion and Penco; [V] at Angol, Cabrero, Chiguayante, Cobquecura, Curanilahue, Hualpen, La Laja, Los Alamos, Los Angeles, Quirihue, Renaico, San Rosendo, Tirua and Tome. Felt widely in central Chile as far as Valdivia and Vina del Mar. Also felt at Cutral-Co, Argentina. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95 $M_{\theta\theta}$0.32 $M_{\phi\phi}$-1.27 $M_{r\theta}$-0.31 $M_{\theta\phi}$0.90 $M_{\phi r}$-0.86 Best double couple: NP1:ϕ_s186.00000° ,δ67.00000°,λ128.00000°. NP2:ϕ_s302.00000°,δ43.00000°,λ34.00000°. Principal axes: T 1.5600,Plg52.0000°,Azm141.0000°; N 0.2800,Plg35.0000°,Azm349.0000° ; P -1.8400,Plg14.0000°,Azm249.0000° $M_0$1.70000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c219; s132,c375;Duration: 2s^4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.61±.01 $M_{\theta\theta}$0.01±.01; $M_{\phi\phi}$-0.62±.01; $M_{r\theta}$-0.05±.01; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-1.06±.03; Best double couple: NP1: ϕ_s183.00000°,δ75.00000°,λ88.00000°. NP2:ϕ_s12.00000°,δ15.00000°,λ98.00000°. Principal axes: T 1.2230,Plg60.0000°,Azm90.0000°; N 0.0170,Plg2.0000°,Azm184.0000° ; P -1.2400,Plg30.0000°,Azm275.0000° $M_0$1.23100×10^{18}
MOS Error ellipse: s-maj=15.2km s-min=7.2km az=103.7.
(135) Near coast of central Chile
ISC II 12 01 22 31.1–1.2 37.3S–.10 73.9W–.10 35 4.2b 11 1-75
ISCJB II 12 01 22 28.9–.98 37.3S–.10 74.0W–.10 33 4.0b ¶16196681
GUC II 12 01 22 29.8–.38 37.25S 73.80W 10–3 4.1L
NEIC II 12 01 22 29.0 37.25S 73.80W 10 4.2b,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=18.5km s-min=9.0km az=148.2.
GUC Error ellipse: s-maj=3.7km s-min=3.6km az=-1.0.
NEIC Event type fe. Felt [III] at Arauco and Concepcion. After GUC.
(134) Off coast of central Chile
ISC II 12 01 33 43.3–1.5 37.1S–.10 73.9W–.10 35 3.8b 11 1-87
IDC II 12 01 33 36.5–2.0 37.51S 73.85W 0 4.0,3.9 ¶16196329
GUC II 12 01 33 39.3–.43 37.05S 74.10W 22–7 4.2L,3.9
NEIC II 12 01 33 39.0 37.04S 74.10W 22 4.2L,3.9
ISCJB II 12 01 33 40.9–1.1 37.3S–.10 73.9W–.10 33 3.8b,3.9
ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion. After GUC.
ISCJB Event type fe.
(135) Near coast of central Chile
ISC II 12 01 37 43.8–.61 37.14S–.08 73.91W–.08 35 4.3b 61 1-169
GUC II 12 01 37 37.3–.30 37.32S 74.16W 33–2 4.4L ¶16196685

IDC II 12 01 37 38.6–.86 37.23S 73.72W 0 4.3,4.2
NEIC II 12 01 37 40.2–.29 37.16S 73.81W 10 4.5b,4.4L
ISCJB II 12 01 37 42.4–.47 37.13S–.05 73.73W–.07 33 4.5b,4.4L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, Hualpen, Penco, Talcahuano and Tome; [II] at Chiguayante and Tirua.
ISCJB Event type fe.

(135) Near coast of central Chile

ISC II 12 01 47 09.8–.60 37.14S–.07 73.83W–.08 35 4.2b 55 1-169
IDC II 12 01 47 04.8–.96 37.17S 73.64W 0 4.2,4.1 **¶16196331**
GUC II 12 01 47 07.9–.64 37.31S 73.72W 18–9 4.5L,4.1
NEIC II 12 01 47 07.0 37.31S 73.72W 18 4.5L,4.4b
ISCJB II 12 01 47 08.4–.53 37.04S–.05 73.89W–.07 33 4.3b,4.4b
ISC Event type fe.
NEIC Event type fe. Felt [V] at La Laja; [IV] at Concepcion and Coronel; [III] at Penco, San Pedro de la Paz and Tome; [II] at Padre Las Casas and Temuco. After GUC.
ISCJB Event type fe.

(135) Near coast of central Chile

ISC II 12 04 14 10.7–.66 36.35S–.05 73.57W–.07 27 4.3b 29 1-169
ISCJB II 12 04 14 08.4–.55 36.37S–.05 73.74W–.06 27 4.4b,4.1s **¶16196682**
IDC II 12 04 14 08.1–1.3 36.25S 73.28W 0 4.2,4.1
GUC II 12 04 14 09.4–.54 36.32S 73.73W 16–5 4.2L,4.1
NEIC II 12 04 14 09.0 36.32S 73.73W 16 4.2L,4.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.1km az=33.2.
IDC Error ellipse: s-maj=42.5km s-min=25.4km az=67.0.
GUC Error ellipse: s-maj=2.4km s-min=4.2km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Hualpen, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at Chiguayante and Coronel. After GUC.

(135) Near coast of central Chile

ISC II 12 05 19 23.3–.53 36.47S–.05 73.35W–.07 27 4.5b,4.1s 107 0-174
IDC II 12 05 19 18.6–.95 36.60S 73.39W 0 4.2,4.1 **¶16022190**
GUC II 12 05 19 21.5–.53 36.55S 73.34W 7–12 4.4L,4.1
NEIC II 12 05 19 21.0 36.54S 73.34W 7 4.6b,4.4L
ISCJB II 12 05 19 22.5–.32 36.44S–.05 73.34W–.04 27 4.5b,4.0s
BJI II 12 05 19 24.3 36.50S 73.30W 30 4.5b,4.0s
ISC Event type fe.
IDC Error ellipse: s-maj=29.5km s-min=22.7km az=51.0.
GUC Error ellipse: s-maj=1.9km s-min=12.8km az=-1.0.
NEIC Event type fe. Felt [IV] at Chiguayante, Concepcion, Hualpen, Talcahuano and Tome; [III] at Cobquecura and Quirihue; [II] at Renaico and Talca. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=177.4.

(135) Near coast of central Chile

ISC II 12 06 25 05.2–.79 36.64S–.05 73.38W–.08 27 3.9b,3.2s 37 0-159
IDC II 12 06 25 01.0–1.2 36.56S 73.41W 0 4.0,3.9 **¶16160033**
ISCJB II 12 06 25 03.7–.69 36.61S–.05 73.47W–.07 27 3.8b,3.2s
GUC II 12 06 25 04.2–.41 36.63S 73.37W 7–8 3.8L,3.2s
NEIC II 12 06 25 04.0 36.63S 73.37W 7 4.3b,3.8L
ISC Event type fe.
IDC Error ellipse: s-maj=41.0km s-min=28.5km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=164.8.
GUC Error ellipse: s-maj=1.2km s-min=8.5km az=-1.0.
NEIC Event type fe. Felt [III] at Coelemu, Concepcion, Hualpencillo, Penco, Talcahuano and Tome; [II] at Cauquenes, Chiguayante and Talca. After GUC.

(135) Near coast of central Chile

ISC II 12 08 16 29.4–.76 36.39S–.05 73.31W–.07 27 4.2b 40 0-89
IDC II 12 08 16 25.9–1.1 36.31S 73.28W 0 4.2,4.1 **¶16160034**
ISCJB II 12 08 16 28.4–.54 36.29S–.04 73.32W–.06 27 4.2b,3.6s
GUC II 12 08 16 28.8–.39 36.42S 73.25W 9–4 4.0L,3.6s
NEIC II 12 08 16 28.0 36.42S 73.25W 9 4.4b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=31.1km s-min=19.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.7km az=165.0.
GUC Error ellipse: s-maj=1.2km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt [III] at Cauquenes, Concepcion, Hualpencillo, Pelluhue, Penco, Quirihue, Talcahuano and Tome; [II] at Chanco, Chiguayante and Talca. After GUC.

(316) Bangladesh

ISC II 12 10 22 45.0–.70 23.35N–.07 90.93E–.05 35 3.8b,3.5s 53 2-84
IDC II 12 10 22 40.0–1.1 23.19N 90.80E 0 4.0L,3.9 **¶16300885**
NEIC II 12 10 22 41.5–.46 23.25N 91.00E 10 4.1b,3.9
ISCJB II 12 10 22 44.6–.50 23.42N–.04 90.75E–.04 33 3.8b,3.6s
DMN II 12 10 22 45.2–.39 23.26N 91.06E 25 5.0L,3.6s
ISC Event type fe.
IDC Error ellipse: s-maj=39.4km s-min=18.1km az=52.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.2km az=219.0. Felt [II] at Dhaka. Felt in much of Bangladesh.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.6km az=23.7.
DMN Event type ke. Error ellipse: s-maj=18.3km s-min=7.2km az=43.0.

(266) Northern Molucca Sea

ISC II 12 11 55 26.4–.36 1.99N–.03 126.87E–.04 48–2 5.6b,5.3s 996 1-173
BJI II 12 11 55 22.2 1.81N 126.62E 39 5.6b,5.4b **¶16022042**
IDC II 12 11 55 22.3–2.2 1.95N 126.83E 18–13 5.3,5.2
MOS II 12 11 55 23.3–1.2 2.06N 126.86E 33 5.9b,5.1s
ISCJB II 12 11 55 25.0–.30 2.01N–.02 126.86E–.02 53–2 5.6b,5.2s
GCMT II 12 11 55 24.8–.10 2.11N 126.89E 24–0 5.8W,5.2s
NEIC II 12 11 55 24.8–.11 1.99N 126.83E 35 5.7b,5.6W
KLM II 12 11 55 25.2 1.93N 127.04E 54 6.0s,5.7b
DJA II 12 11 55 25.4–.40 2N–4.0 127E–2.0 10 5.9b,5.8
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c186; s106,c228;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}2.88±.06 $M_{\theta\theta}$1.58±.05; $M_{\phi\phi}$-4.45±.05; $M_{r\theta}$-3.57±.15; $M_{\theta\phi}$-1.23±.04; $M_{\phi r}$-1.10±.13; Best double couple: NP1:ϕ_s226.00000°,δ69.00000°,λ129.00000°. NP2:ϕ_s340.00000°,δ43.00000°,λ32.00000°. Principal axes: T 5.8590,Plg50.0000°,Azm179.0000° ; N -0.6780,Plg36.0000°,Azm30.0000°; P -5.1710,Plg15.0000°,Azm288.0000° M_o5.51500×10^{17}
NEIC Event type fe. Felt [II] at Manado, Indonesia. Also felt on Pulau Ternate. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}1.74 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$-0.49 $M_{r\theta}$-1.10 $M_{\theta\phi}$-2.29 $M_{\phi r}$0.58 Best double couple: NP1:ϕ_s16.00000°,δ53.00000°,λ35.00000°. NP2:ϕ_s263.00000°,δ62.00000°,λ137.00000°. Principal axes: T 2.7800,Plg49.0000°,Azm225.0000° ; N 0.4600,Plg41.0000°,Azm56.0000°; P -3.2400,Plg6.0000°,Azm321.0000° M_o3.00000×10^{17}

(135) Near coast of central Chile

ISC II 12 12 19 08.5–.70 36.76S–.05 73.65W–.06 14 4.1b 48 0-160
ISCJB II 12 12 19 06.8–.68 36.70S–.06 73.80W–.06 14 4.6s,4.1b **¶16030477**
IDC II 12 12 19 06.3–.99 36.86S 73.65W 0 4.2,4.1
GUC II 12 12 19 07.6–.70 36.86S 73.67W 26–15 4.5L,4.1
NEIC II 12 12 19 07.0 36.86S 73.67W 26 4.5L,4.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.3km az=24.9.
IDC Error ellipse: s-maj=33.8km s-min=17.2km az=62.0.
GUC Error ellipse: s-maj=10.0km s-min=5.2km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Hualpen, La Laja, San Pedro de la Paz and Talcahuano; [II] at Chiguayante and Talca. After GUC.

(135) Near coast of central Chile

ISC II 12 12 40 49.3–1.7 36.70S–.06 73.56W–.09 10 18 0-80
ISCJB II 12 12 40 46.6–1.1 36.66S–.06 73.68W–.08 10 4.4b **¶16166733**
GUC II 12 12 40 50.2–.82 36.66S 73.42W 7–21 4.1L
NEIC II 12 12 40 50.0 36.66S 73.42W 7 4.5b,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.4km az=44.6.
GUC Error ellipse: s-maj=4.1km s-min=22.8km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Hualpen, La Laja and Talcahuano; [II] at Chiguayante, San Pedro de la Paz and Tome. After GUC.

(134) Off coast of central Chile

ISC II 12 15 25 05.8–.41 37.12S–.05 73.83W–.07 35 4.7b,4.2s 125 1-174
IDC II 12 15 25 00.7–.73 37.22S 73.74W 0 4.5,4.4 **¶16022450**
MOS II 12 15 25 00.7–3.6 37.22S 73.74W 33 5.0b,4.4
GUC II 12 15 25 02.5–.66 37.04S 74.10W 25–13 4.5L,4.4
NEIC II 12 15 25 02.0 37.04S 74.09W 25 4.8b,4.5L
BJI II 12 15 25 03.3 37.75S 74.02W 27 5.6s,5.5b
ISCJB II 12 15 25 04.3–.32 37.20S–.04 73.70W–.05 33 4.7b,4.1s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Concepcion; [III] at Hualpen, Penco, San Pedro de la Paz and Talcahuano; [II] at Chiguayante. After GUC.
ISCJB Event type fe.

(43) Southern California

ISC II 12 17 30 43.0–.88 33.68N–.02 116.83W–.02 17–7 112 0-12
ISCJB II 12 17 30 43.2–.28 33.67N–.02 116.84W–.02 28–3 **¶601793046**
NEIC II 12 17 30 43.5 33.70N 116.83W 18 3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=22.8.
NEIC Event type fe. Felt [III] at Bonsall, Hemet, Homeland, Idyllwild, Moreno Valley, San Jacinto and Winchester; [II] in the Carlsbad-Palm Desert-Riverside area. Felt as far as Apple Valley, Los Angeles and San Diego. After PAS.

(173) Tonga Islands

ISC II 12 17 57 56.2–.28 20.85S–.03 175.59W–.04 86–2 6.0b 1976 7-178
MOS II 12 17 57 51.5–.95 20.71S 175.67W 50 6.3b,5.4s **¶16022200**
ISCJB II 12 17 57 54.9–.06 20.97S–.02 175.65W–.02 87 5.9b,5.4s
BJI II 12 17 57 54.5 20.90S 175.70W 80 6.2b,6.0b
NEIC II 12 17 57 56.1–.08 20.88S 175.67W 85 6.1W,6.1W
GCMT II 12 17 57 56.6–.10 20.93S 175.19W 112–0 6.1W,6.1W
IDC II 12 17 57 56.6–1.2 20.84S 175.61W 87–9 5.8,5.5
NEIC II 12 17 57 57.0–.00 21.07S 175.28W 89 5.8,5.5
ISC Event type fe.
MOS Error ellipse: s-maj=7.6km s-min=5.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.7km az=42.9.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=137.0. Felt [III] at Nuku'alofa. Also felt at Pangai and Vaini. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. M_o2.00000×10^{18} Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.36 $M_{\theta\theta}$1.44 $M_{\phi\phi}$-0.08 $M_{r\theta}$0.56 $M_{\theta\phi}$0.85 $M_{\phi r}$-0.72 Best double couple: NP1:ϕ_s274.00000°,δ57.00000°,λ-52.00000°. NP2:ϕ_s38.00000°,δ49.00000°,λ-133.00000°. Principal axes: T 1.8400,Plg4.0000°,Azm338.0000°; N 0.0700,Plg31.0000°,Azm70.0000° ; P -1.9100,Plg58.0000°,Azm240.0000° M_o1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c313; s141,c480;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.95±.01 $M_{\theta\theta}$1.05±.01; $M_{\phi\phi}$-0.09±.01; $M_{r\theta}$0.43±.01; $M_{\theta\phi}$1.18±.01; $M_{\phi r}$-0.90±.01; Best double couple: NP1:ϕ_s23.00000°,δ61.00000°,λ-141.00000°. NP2:ϕ_s272.00000°,δ57.00000°,λ-35.00000°. Principal axes: T 1.7940,Plg3.0000°,Azm147.0000° ; N 0.1010,Plg43.0000°,Azm54.0000°; P -1.8930,Plg47.0000°,Azm240.0000° M_o1.84400×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=146.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ64.00000°,λ-43.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ-145.00000°. Principal axes: T 1.2000,Plg7.0000°,Azm331.0000°; N 0.4500,Plg40.0000°,Azm68.0000° ; P -1.6500,Plg48.0000°,Azm233.0000°

(227) Eastern Honshu

ISC II 12 21 25 47.7–1.3 39.14N–.03 140.95E–.04 7–9 3.9b 40 0-76
NIED II 12 21 25 00 39.10N 141.00E 5 3.8W **¶17192129**
ISCJB II 12 21 25 47.8–.47 39.16N–.03 140.98E–.04 19–4 3.7b
JMA II 12 21 25 48.0 39.15N 140.95E 8 3.8
IDC II 12 21 25 53.9–2.4 39.14N 140.90E 54–22 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ38.00000°,λ111.00000°. NP2:ϕ_s226.00000°,δ55.00000°,λ74.00000°. M_o5.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=31.9.
JMA Event type fe.
IDC Error ellipse: s-maj=16.8km s-min=13.3km az=128.0.

(228) Near east coast of eastern Honshu

ISC II 13 03 14 52.1–.51 36.67N–.05 140.65E–.05 70–3 3.9b 60 0-91
NIED II 13 03 14 00 36.70N 140.60E 71 4.0W **¶16168846**
ISCJB II 13 03 14 51.2–.43 36.66N–.04 140.69E–.05 77–3 3.8b
IDC II 13 03 14 52.1–.47 36.67N 140.65E 70–3 4.0,3.9
JMA II 13 03 14 52.6 36.68N 140.59E 69–1 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s212.00000°,δ71.00000°,λ92.00000°. M_o1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.5km az=37.5.
IDC Error ellipse: s-maj=9.3km s-min=6.8km az=157.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ88.00000°,λ88.00000°. NP2:ϕ_s66.00000°,δ3.00000°,λ135.00000°. Principal axes: T Plg47.0000°,Azm109.0000°; N Plg2.0000°,Azm201.0000°; P Plg43.0000° ,Azm293.0000°

(135) Near coast of central Chile

ISC II 13 03 31 33.9–.72 36.64S–.04 73.36W–.08 27 4.1b 42 0-157
IDC II 13 03 31 29.8–1.4 36.55S 73.40W 0 3.9,3.8L **¶16196688**
ISCJB II 13 03 31 33.0–.49 36.56S–.04 73.35W–.06 27 4.0b,3.6s
GUC II 13 03 31 33.6–.37 36.58S 73.41W 6–2 4.0L,3.6s
NEIC II 13 03 31 33.0 36.58S 73.41W 6 4.2b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=45.0km s-min=19.5km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=167.4.
GUC Error ellipse: s-maj=1.0km s-min=3.5km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, Penco, Talcahuano and Tome. After GUC.

(135) Near coast of central Chile

ISC II 13 08 51 34.7–.55 36.59S–.03 73.41W–.04 28–3 5.7s,5.4b 952 0-178
IDC II 13 08 51 30.3–.44 36.62S 73.30W 0 5.6,5.6s **¶16022457**
GUC II 13 08 51 31.6–.31 36.67S 73.74W 21–2 5.7W,5.6L
NEIC II 13 08 51 34.0–.53 36.57S 73.18W 21–3 5.8W,5.7s
MOS II 13 08 51 34.8–1.1 36.54S 73.34W 33 5.6b,5.6s
GCMT II 13 08 51 34.0–.10 36.78S 73.61W 16–0 5.9W,5.6s
ISCJB II 13 08 51 34.5–.60 36.58S–.03 73.35W–.06 40–5 5.7s,5.3b
BJI II 13 08 51 35.1 36.50S 73.20W 30 5.9s,5.8
ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=11.0km az=79.0.
GUC Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=69.0. Felt [V] at Arauco, Cobquecura, Concepcion, Coronel, Lebu, Penco, Quirihue, Talcahuano, Tome and Yumbel; [IV] in much of Araucania and Bio-Bio; [II] as far as Santiago and Valdivia. Also felt at Mendoza and San Carlos de Bariloche, Argentina. Moment Tensor Solution. s64 Moment tensor: Scale 10^{17}Nm; M_{rr}2.92 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-4.29 $M_{r\theta}$-0.29 $M_{\theta\phi}$0.43 $M_{\phi r}$-3.87 Best double couple: NP1:ϕ_s184.00000°,δ69.00000°,λ98.00000°. NP2:ϕ_s342.00000°,δ23.00000°,λ69.00000°. Principal axes: T 4.6100,Plg23.0000°,Azm94.0000° ; N 1.4000,Plg0.0000°,Azm4.0000°; P -6.0000,Plg67.0000°,Azm274.0000° M_o5.40000×10^{17}
MOS Error ellipse: s-maj=15.7km s-min=7.0km az=101.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c210; s124,c315;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}3.28±.05 $M_{\theta\theta}$-0.00±.03; $M_{\phi\phi}$-3.28±.04; $M_{r\theta}$-0.15±.10; $M_{\theta\phi}$-0.41±.03; $M_{\phi r}$-8.14±.30; Best double couple: NP1: ϕ_s182.00000°,δ79.00000°,λ88.00000°. NP2:ϕ_s13.00000°,δ11.00000°,λ101.00000°. Principal axes: T 8.7770,Plg56.0000°,Azm89.0000°; N 0.0170,Plg2.0000°,Azm182.0000° ; P -8.7970,Plg34.0000°,Azm273.0000° M_o8.78700×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=170.8.

(135) Near coast of central Chile

ISC II 13 10 35 07.3–.53 36.71S–.03 73.38W–.04 23–3 5.9s,5.6b 1239 0-178
NEIC II 13 10 35 06.7–.15 36.65S 73.18W 17 6.0W,5.9W **¶16022458**
GCMT II 13 10 35 06.7–.10 36.83S 73.74W 14–0 5.9W,5.9W
ISCJB II 13 10 35 07.0–.58 36.67S–.02 73.38W–.03 32–4 5.8s,5.5b
BJI II 13 10 35 07.6 36.70S 73.15W 30 6.0s,5.9
GUC II 13 10 35 07.7–.43 36.76S 73.41W 36–1 5.6L,5.9
MOS II 13 10 35 08.9–1.3 36.59S 73.32W 38 5.8b,5.8s
IDC II 13 10 35 08.5–1.6 36.79S 73.55W 35–11 5.8s,5.7
NEIC II 13 10 35 24.0–.00 36.42S 73.13W 10 5.8s,5.7
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=72.0. Felt [VI] at Chiguayante, Concepcion, Coronel, Penco and Talcahuano; [V] at Cauquenes, Chillan, Contulmo, Hualpencillo, Lebu, San Pedro and Tome; [II] as far as Curico and Valdivia. Also felt at Neuquen, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. M_o2.00000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ69.00000°,λ101.00000°. NP2:ϕ_s344.00000°,δ23.00000°,λ63.00000°. Principal axes: T 0.9700,Plg64.0000° ,Azm121.0000°; N 0.1100,Plg10.0000°,Azm9.0000°; P -1.0800,Plg23.0000°,Azm275.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c235; s131,c389;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.57±.01 $M_{\theta\theta}$0.00±.00; $M_{\phi\phi}$-0.58±.01; $M_{r\theta}$-0.05±.01; $M_{\theta\phi}$-0.08±.00; $M_{\phi r}$-0.80±.02; Best double couple: NP1: ϕ_s184.00000°,δ72.00000°,λ88.00000°. NP2:ϕ_s12.00000°,δ18.00000°,λ97.00000°. Principal axes: T 0.9870,Plg63.0000°,Azm91.0000°; N 0.0130,Plg2.0000°,Azm185.0000° ; P -1.0010,Plg27.0000°,Azm276.0000° $M_0$0.99400×10^{18}

ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.9km az=7.6.

GUC Error ellipse: s-maj=1.2km s-min=3.2km az=-1.0.

MOS Error ellipse: s-maj=14.1km s-min=6.3km az=100.8.

IDC Error ellipse: s-maj=14.1km s-min=8.1km az=85.0.

NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{18}Nm; M_{rr}0.52 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-0.63 $M_{r\theta}$-0.60 $M_{\theta\phi}$-0.06 $M_{\phi r}$-1.03 Best double couple: NP1:ϕ_s207.00000° ,δ78.00000°,λ102.00000°. NP2:ϕ_s342.00000°,δ17.00000°,λ46.00000°. Principal axes: T 1.3300,Plg55.0000°,Azm132.0000°; N 0.0000,Plg12.0000°,Azm25.0000° ; P -1.3300,Plg32.0000°,Azm288.0000° $M_0$1.30000×10^{18}

(135) Near coast of central Chile

ISC	**II**	**13 10 41 40.7–.95**	**36.73S–.08**	**73.56W–.08**	**27**	**4.4b**	**15**	**0-159**
IDC	II	13 10 41 37.3–1.7	36.75S	73.35W	0	4.3L,4.2		¶16160036
ISCJB	II	13 10 41 38.5–.84	36.77S–.07	73.71W–.07	27	4.2b,4.2		
GUC	II	13 10 41 38.9–.35	36.73S	73.65W	18–3	4.3L,4.2		
NEIC	II	13 10 41 38.0	36.72S	73.64W	18	4.6b,4.3L		

ISC Event type fe.

IDC Error ellipse: s-maj=59.6km s-min=20.0km az=67.0.

ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=8.4km az=11.4.

GUC Error ellipse: s-maj=2.6km s-min=2.6km az=-1.0.

NEIC Event type fe. Felt [V] at Chillan; [IV] at Concepcion, La Laja, Lebu, Los Angeles, Penco and San Rosendo; [III] at Arauco, Contulmo, Talcahuano and Tirua. After GUC.

(135) Near coast of central Chile

ISC	**II**	**13 10 55 31.6–.95**	**36.66S–.06**	**73.39W–.09**	**27**	**4.0b**	**23**	**0-86**
IDC	II	13 10 55 27.8–1.2	36.62S	73.39W	0	4.1,3.9		¶16160037
ISCJB	II	13 10 55 30.0–.68	36.63S–.05	73.43W–.07	27	4.0b,3.9		
GUC	II	13 10 55 32.8–.50	36.64S	73.26W	7–6	4.0L,3.9		
NEIC	II	13 10 55 32.0	36.63S	73.26W	7	4.5b,4.0L		
SJA	II	13 10 56 11.0–.82	33.85S	71.06W	10	3.4L,4.0L		

ISC Event type fe.

IDC Error ellipse: s-maj=49.7km s-min=19.2km az=65.0.

ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.7km az=153.2.

GUC Error ellipse: s-maj=1.1km s-min=6.2km az=-1.0.

NEIC Event type fe. Felt [III] at Arauco, Concepcion, Coronel, Hualpencillo, Hualqui, Penco, San Pedro, Talcahuano and Tome. After GUC.

SJA Error ellipse: s-maj=77.5km s-min=87.8km az=-1.0.

(479) Colorado

ISC	**II**	**13 11 44 52.1–.56**	**37.08N–.02**	**104.95W–.02**	**10**	**3.5b**	**122**	**0-96**
IDC	II	13 11 44 51.2–.83	37.03N	104.98W	0	3.8,3.6		¶16024732
NEIC	II	13 11 44 52.6–.39	37.01N	104.94W	5	3.6L,3.6		

ISC Event type fe.

IDC Error ellipse: s-maj=24.2km s-min=9.6km az=80.0.

NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.8km az=78.0. Felt [II] at Trinidad. Also felt at Weston. Felt at Raton, New Mexico.

(135) Near coast of central Chile

ISC	**II**	**13 12 08 18.8–.55**	**36.74S–.06**	**73.47W–.07**	**27**	**4.3b,4.1s**	**50**	**0-174**
IDC	II	13 12 08 14.6–.95	36.70S	73.36W	0	4.3,4.3L		¶16024733
GUC	II	13 12 08 15.8–.49	36.72S	73.60W	12	4.5L,4.3L		
NEIC	II	13 12 08 15.0	36.72S	73.60W	12	4.7b,4.5L		
ISCJB	II	13 12 08 17.1–.52	36.73S–.06	73.55W–.06	27	4.3b,4.0s		
BJI	II	13 12 08 17.3	36.60S	73.40W	10	5.9s,5.9		

ISC Event type fe.

IDC Error ellipse: s-maj=29.5km s-min=17.6km az=64.0.

GUC Error ellipse: s-maj=2.3km s-min=4.5km az=-1.0.

NEIC Event type fe. Felt [III] at Chiguayante, Concepcion, Coronel, Hualpen, Lota, Penco, San Pedro and Talcahuano; [II] at Cauquenes, Cobquecura, Empedrado, Renaico and Temuco. After GUC.

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.6km az=24.6.

(135) Near coast of central Chile

ISC	**II**	**13 13 44 37.6–.23**	**36.59S–.03**	**73.46W–.04**	**27**	**5.3b,5.3s**	**944**	**0-178**
IDC	II	13 13 44 33.2–.40	36.72S	73.46W	0	5.3,5.3s		¶601516583
ISCJB	II	13 13 44 36.6–.15	36.48S–.03	73.23W–.05	27	5.3s,5.3b		
BJI	II	13 13 44 36.8	36.27S	72.84W	29	5.7s,5.5		
GUC	II	13 13 44 36.3–.71	36.61S	73.49W	7–105	5.1L,5.5		
GCMT	II	13 13 44 36.4–.10	36.75S	73.74W	18–0	5.6W,5.5		
NEIC	II	13 13 44 36.5–.83	36.56S	73.28W	19–4	5.5W,5.4b		
MOS	II	13 13 44 38.0–1.2	36.49S	73.37W	33	5.5b,5.2s		

ISC Event type fe.

IDC Error ellipse: s-maj=17.2km s-min=11.3km az=105.0.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.7km az=155.0.

GUC Error ellipse: s-maj=15.5km s-min=119.5km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c151; s106,c208;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.72±.04 $M_{\theta\theta}$-0.00±.02; $M_{\phi\phi}$-1.71±.03; $M_{r\theta}$-0.17±.06; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$-2.99±.14; Best double couple: NP1: ϕ_s184.00000°,δ75.00000°,λ89.00000°. NP2:ϕ_s9.00000°,δ15.00000°,λ95.00000°. Principal axes: T 3.4530,Plg60.0000°,Azm92.0000°; N 0.0130,Plg1.0000°,Azm184.0000° ; P -3.4590,Plg30.0000°,Azm275.0000° $M_0$3.45600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=69.0. Felt [VI] at Chiguayante, Concepcion, Hualpen, Penco and Talcahuano; [V] at Arauco and Coronel; [IV] at Chillan, Chillan Viejo, Cobquecura, Colbun, Linares, Los Alamos, Parral and Quirihue. Felt as far as Constitucion and Temuco. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}1.33 $M_{\theta\theta}$0.54 $M_{\phi\phi}$-1.87 $M_{r\theta}$0.03 $M_{\theta\phi}$0.12 $M_{\phi r}$-1.54 Best double couple: NP1:ϕ_s179.00000° ,δ67.00000°,λ92.00000°. NP2:ϕ_s354.00000°,δ23.00000°,λ86.00000°. Principal axes: T 1.9500,Plg22.0000°,Azm92.0000°; N 0.5400,Plg3.0000°,Azm1.0000° ; P -2.4900,Plg68.0000°,Azm262.0000° $M_0$2.30000×10^{17}

MOS Error ellipse: s-maj=15.7km s-min=6.9km az=103.5.

(230) Near south coast of eastern Honshu

ISC	**II**	**13 16 34 38.8–.67**	**34.65N–.04**	**139.61E–.05**	**114–5**	**3.8b**	**57**	**0-93**
NIED	II	13 16 34 00	34.60N	139.60E	89	3.8W		¶17192162
ISCJB	II	13 16 34 37.8–.30	34.63N–.03	139.62E–.05	120–2	3.7b		
JMA	II	13 16 34 38.5–.10	34.66N	139.65E	110–1	3.6		
IDC	II	13 16 34 39.2–.51	34.59N	139.54E	119–4	3.8,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ3.00000°,λ-145.00000°. NP2:ϕ_s6.00000°,δ88.00000°,λ-88.00000°. $M_0$6.25000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=167.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=14.6km s-min=5.2km az=72.0.

(135) Near coast of central Chile

ISC	**II**	**13 16 41 25.7–.88**	**37.08S–.10**	**73.99W–.07**	**10**	**4.2s,3.8b**	**16**	**1-160**
ISCJB	II	13 16 41 22.4–.64	37.19S–.05	74.10W–.07	10	4.2s,3.9b		¶16029793
IDC	II	13 16 41 22.6–.92	37.21S	73.86W	0	4.2s,4.1L		
GUC	II	13 16 41 23.2–.37	37.08S	74.25W	30–31	4.6L,4.1L		
NEIC	II	13 16 41 24.2–.49	37.23S	73.91W	10	4.8b,4.6L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.4km az=36.5.

IDC Error ellipse: s-maj=25.8km s-min=17.5km az=58.0.

GUC Error ellipse: s-maj=4.7km s-min=8.6km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=13.8km s-min=9.5km az=79.0. Felt [III] at Chiguayante, Concepcion, Hualpen, La Laja, Lebu, San Pedro de la Paz and Talcahuano; [II] at Constitucion, Coronel and Linares.

(135) Near coast of central Chile

ISC	**II**	**13 17 54 20.9–.43**	**37.28S–.05**	**73.67W–.07**	**23**	**4.6b,4.0s**	**92**	**1-178**
GUC	II	13 17 54 15.4–.48	37.39S	73.88W	7–6	4.7L,4.0s		¶16024740
NEIC	II	13 17 54 15.0	37.38S	73.87W	7	4.8b,4.7L		
IDC	II	13 17 54 18.5–.70	37.20S	73.68W	0	4.4,4.3		
ISCJB	II	13 17 54 20.0–.44	37.25S–.04	73.57W–.08	23	4.5b,4.1s		
BJI	II	13 17 54 22.0	37.20S	73.60W	27	5.5s,5.3		

ISC Event type fe.

GUC Error ellipse: s-maj=2.6km s-min=6.6km az=-1.0.

NEIC Event type fe. Felt [III] at Collipulli, Concepcion, Hualpen, Renaico, San Pedro de la Paz and Talcahuano; [II] at Arauco, Lebu, Parral, Puerto Saavedra and Tolten. After GUC.

IDC Error ellipse: s-maj=25.3km s-min=16.5km az=64.0.

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.0km az=6.0.

(89) Mona Passage

ISC	**II**	**13 19 25 27.0–.41**	**19.29N–.05**	**67.93W–.03**	**22–4**	**4.3b,3.6s**	**261**	**1-159**
IDC	II	13 19 25 23.3–.53	19.17N	67.98W	0	4.3,4.2L		¶16022611
BJI	II	13 19 25 24.3	19.30N	67.80W	8	5.4s,5.2		
RSPR	II	13 19 25 26.7	19.62N	67.87W	13–3	4.5,5.2		
NEIC	II	13 19 25 26.7	19.62N	67.87W	13	4.4,4.4b		

ISC Event type fe.

IDC Error ellipse: s-maj=17.6km s-min=12.1km az=28.0.

RSPR Event type ke.

NEIC Event type fe. Felt at Otra Banda. Also felt at Caguas, Las Marias, Mayaguez and Sabana Grande, Puerto Rico. After RSPR.

(135) Near coast of central Chile

ISC	**II**	**13 20 20 52.4–1.4**	**36.28S–.06**	**73.86W–.09**	**10**		**15**	**1-50**
ISCJB	II	13 20 20 51.4–1.2	36.16S–.05	73.92W–.09	10			¶16362981
NEIC	II	13 20 20 56.0	36.26S	73.62W	16	4.1L		
GUC	II	13 20 20 56.5–.53	36.26S	73.63W	16–4	4.1L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.4km az=155.4.

NEIC Event type fe. Felt [III] at Concepcion, Constitucion, Hualpen, Linares, Parral, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at La Laja. After GUC.

GUC Error ellipse: s-maj=2.1km s-min=4.3km az=-1.0.

(460) Wyoming

ISC	**II**	**13 21 10 59.3–.66**	**43.43N–.04**	**105.02W–.03**	**0**	**4.1b**	**54**	**1-90**
ISCJB	II	13 21 10 57.8–.42	43.40N–.03	105.01W–.04	0	4.2b		¶17192172
IDC	II	13 21 10 59.6–2.0	43.39N	104.99W	0	4.0b,3.8		
NEIC	II	13 21 10 59.8–.52	43.39N	104.98W	0	3.2L,3.8		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=4.6km s-min=3.9km az=172.9.

IDC Error ellipse: s-maj=56.1km s-min=12.6km az=149.0.

NEIC Event type fm. Error ellipse: s-maj=7.4km s-min=7.2km az=104.0. 78 km [48 miles] NNE of Douglas. Suspected Mining explosion.

(45) California-Baja California border region

ISC	**II**	**13 23 25 09.0–.89**	**32.19N–.02**	**115.31W–.02**	**15–6**		**107**	**0-14**
ISCJB	II	13 23 25 09.3–.37	32.22N–.02	115.27W–.02	25–3			¶16022618
ECX	II	13 23 25 10.8–.49	32.23N	115.30W	6	4.1L		
NEIC	II	13 23 25 10.8	32.23N	115.30W	6	4.1L,4.1L		
MEX	II	13 23 25 11.5–.50	32.28N	115.21W	15–9	4.0,4.1L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=12.1.

ECX Error ellipse: s-maj=1.4km s-min=1.4km az=-1.0.

NEIC Event type fe. Felt at Mexicali. Also felt at Calexico, El Cajon, El Centro, La Mesa, San Diego and Santa Ana, California. After ECX.

MEX Error ellipse: s-maj=7.5km s-min=8.7km az=-1.0.

(246) Southwestern Ryukyu Islands

ISC	**II**	**13 23 38 47.9–.79**	**24.99N–.09**	**125.63E–.06**	**49–7**	**4.1b**	**76**	**0-95**
ISCJB	II	13 23 38 47.2–.41	24.97N–.07	125.64E–.05	59–3	4.3s,4.1b		¶16168850
JMA	II	13 23 38 47.9–.10	25.00N	125.60E	53–1	3.9,4.1b		
NEIC	II	13 23 38 48.5–.70	24.88N	125.65E	63–7	4.3b,4.1b		
IDC	II	13 23 38 54.8–3.3	25.95N	125.54E	67–30	4.0,3.9		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=3.3km az=150.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=14.1km s-min=7.2km az=171.0. Recorded [2 JMA] on Miyako-jima.

IDC Error ellipse: s-maj=25.6km s-min=20.6km az=46.0.

(478) Utah

ISC	**II**	**14 01 09 43.5–1.2**	**40.42N–.02**	**111.86W–.02**	**1–11**		**74**	**0-22**
NEIC	II	14 01 09 43.0	40.38N	111.92W	5	2.8L		¶16136344
IDC	II	14 01 09 44.3–1.5	40.43N	111.84W	0	3.6L,3.2		

ISC Event type fe.

NEIC Event type fe. Felt [III] at Draper and Saratoga Springs and [II] at Eagle Mountain, Herriman and Lehi. Also felt at Pleasant Grove, Riverton, Salt Lake City and South Jordan. After SLC.

IDC Error ellipse: s-maj=27.2km s-min=7.9km az=144.0.

(135) Near coast of central Chile

ISC	**II**	**14 03 40 09.3–.17**	**35.49S–.03**	**73.10W–.03**	**17**	**6.6s,5.8b**	**1469**	**1-178**
GUC	II	14 03 40 01.2–.56	35.46S	73.74W	22–7	6.3W,5.9L		¶602035966
IDC	II	14 03 40 06.3–.34	35.38S	72.80W	0	6.5,6.5s		
ISCJB	II	14 03 40 07.0–.13	35.42S–.02	73.07W–.03	17	6.6s,5.8b		
NEIC	II	14 03 40 09.9–.12	35.38S	72.83W	21	6.7W,6.7		
GCMT	II	14 03 40 09.9–.00	35.67S	73.61W	12	6.6W,6.7		
BJI	II	14 03 40 11.6	35.40S	73.10W	30	6.7,6.7s		
NEIC	II	14 03 40 11.0–.00	35.43S	73.14W	25	6.7,6.7s		
MOS	II	14 03 40 12.1–1.4	35.04S	73.07W	33	6.6s,6.0b		
NEIC	II	14 03 40 24.7–.00	35.68S	72.67W	10	6.6s,6.0b		

ISC Event type fe.

GUC Error ellipse: s-maj=1.5km s-min=3.7km az=-1.0.

IDC Error ellipse: s-maj=15.5km s-min=9.5km az=85.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=176.6.

NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=78.0. Felt [V] at Cauquenes, Chillan, Cobquecura, Concepcion, Longavi, Parral, Penco, Retiro, Talcahuano and Tome; [IV] at Chanco, Constitucion, Romeral and San Pedro de la Paz; [II] as far as Quillota and Valdivia. Felt in much of central Chile. Also felt at Mendoza, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.30000×10^{19} Moment Tensor Solution. s71 Moment tensor: Scale 10^{18} Nm; M_{rr}3.09 $M_{\theta\theta}$0.37 $M_{\phi\phi}$-3.45 $M_{r\theta}$-0.40 $M_{\theta\phi}$-4.02 $M_{\phi r}$-4.65 Best double couple: NP1: ϕ_s185.00000°,δ73.00000°,λ59.00000°. NP2:ϕ_s68.00000°,δ35.00000°,λ149.00000°. Principal axes: T 6.0100,Plg52.0000°,Azm59.0000°; N 1.6600,Plg29.0000°,Azm195.0000° ; P -7.6600,Plg22.0000°,Azm298.0000° $M_0$7.00000×10^{18}

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c290; s124,c560;Duration: 5s1 Moment tensor: Scale 10^{19} Nm; M_{rr}0.56±.00 $M_{\theta\theta}$-0.02±.00; $M_{\phi\phi}$-0.53±.00; $M_{r\theta}$-0.13±.01; $M_{\theta\phi}$-0.17±.00; $M_{\phi r}$-0.91±.01; Best double couple: NP1:ϕ_s189.00000°,δ74.00000°,λ86.00000°. NP2:ϕ_s25.00000° ,δ17.00000°,λ105.00000°. Principal axes: T 1.0700,Plg61.0000°,Azm93.0000° ; N 0.0190,Plg4.0000°,Azm191.0000°; P -1.0890,Plg29.0000°,Azm283.0000° $M_0$1.08000×10^{19}

NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{19}Nm; M_{rr}0.52 $M_{\theta\theta}$0.06 $M_{\phi\phi}$-0.58 $M_{r\theta}$-0.26 $M_{\theta\phi}$-0.25 $M_{\phi r}$-1.36 Best double couple: NP1:ϕ_s191.00000° ,δ79.00000°,λ86.00000°. NP2:ϕ_s32.00000°,δ12.00000°,λ110.00000°. Principal axes: T 1.4500,Plg56.0000°,Azm95.0000°; N 0.1300,Plg4.0000°,Azm191.0000° ; P -1.5800,Plg33.0000°,Azm284.0000° $M_0$1.50000×10^{19}

MOS Error ellipse: s-maj=14.6km s-min=7.1km az=97.1.

NEIC Event type se. Moment Tensor Solution. s132 Moment tensor: Scale 10^{18}Nm; M_{rr}5.67 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-5.54 $M_{r\theta}$-1.11 $M_{\theta\phi}$-1.35 $M_{\phi r}$-6.57 Best double couple: NP1:ϕ_s190.00000° ,δ70.00000°,λ88.00000°. NP2:ϕ_s16.00000°,δ21.00000°,λ95.00000°. Principal axes: T 8.7200,Plg65.0000°,Azm97.0000°; N 0.1800,Plg2.0000°,Azm191.0000° ; P -8.9000,Plg25.0000°,Azm282.0000° $M_0$8.80000×10^{18}

(372) Cyprus region

ISC	**II**	**14 03 54 27.3–.60**	**34.67N–.01**	**33.03E–.01**	**14–3**	**3.8b**	**263**	**0-32**
DDA	II	14 03 54 20.6	34.38N	32.85E	8	3.5		¶16024750
HLW	II	14 03 54 25.5	34.89N	32.81E	15–13	3.8,3.3L		
ISCJB	II	14 03 54 26.8–.41	34.61N–.01	32.93E–.02	7–3	3.6b,3.3L		
ISK	II	14 03 54 26.9	34.62N	32.93E	9	3.7L,3.3L		
NEIC	II	14 03 54 27.8	34.65N	32.97E	10	3.9L,3.8b		
NIC	II	14 03 54 27.9–.20	34.65N	32.96E	10	3.9L,3.8b		
CSEM	II	14 03 54 27.9–.08	34.63N	32.97E	5	3.9L,3.8b		
GII	II	14 03 54 28.3–.14	34.66N	33.00E	10	3.3,3.8b		
IDC	II	14 03 54 30.7–2.7	34.59N	32.72E	57–42	3.8,3.8		
NSSC	II	14 03 54 33.7–1.4	34.69N	33.30E	38–999	3.1L,1.8		

ISC Event type fe.

DDA Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=164.8.

NEIC Event type fe. Felt at Akhelia, Akrotiri, Episkopion, Kandou, Kissonerga and Limassol. After NIC.

NIC Event type fe. Felt I-III MM at Limasol.

CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=71.0.

GII Event type ke.

IDC Error ellipse: s-maj=33.7km s-min=16.7km az=67.0.

NSSC Error ellipse: s-maj=3.8km s-min=16.2km az=-1.0.

(134) Off coast of central Chile

ISC	**II**	**14 04 37 05.3–1.0**	**37.16S–.08**	**74.03W–.08**	**10**	**3.9b**	**16**	**1-145**
IDC	II	14 04 37 03.6–1.9	37.36S	74.10W	0	4.0,3.8		¶16136346

ISCJB II 14 04 37 04.1–.94 37.27S–.08 74.00W–.09 10 3.8b,3.8
GUC II 14 04 37 05.3–.37 37.16S 74.08W 6–2 4.4L,3.8
NEIC II 14 04 37 05.0 37.16S 74.08W 6 4.4L,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=51.6km s-min=20.1km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=8.4km az=136.8.
GUC Error ellipse: s-maj=3.9km s-min=3.1km az=-1.0.
NEIC Event type fe. Felt [IV] at Coronel; [III] Arauco, Chiguayante, Concepcion, Contulmo, Curanilahue, Penco and Talcahuano; [II] at Puerto Saavedra and Tome. After GUC.

(139) Mendoza Province

ISC II 14 04 54 40.8–.64 32.98S–.04 70.20W–.06 107–5 4.4b 358 1-174
IDC II 14 04 54 38.4–2.7 32.93S 70.01W 79–23 4.3,4.1 **¶16026118**
SJA II 14 04 54 38.8–.50 33.09S 70.12W 102–10 4.0L,4.1
GUC II 14 04 54 39.9–1.1 32.97S 70.32W 117–6 4.6L,4.1
ISCJB II 14 04 54 39.8–.26 32.96S–.04 70.13W–.05 106–2 4.4b,4.1
BJI II 14 04 54 39.8 32.90S 69.80W 93 4.4b,4.1
NEIC II 14 04 54 40.0–.62 32.92S 70.00W 94–5 4.5b,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=19.4km s-min=19.0km az=29.0.
SJA Error ellipse: s-maj=11.3km s-min=9.6km az=-1.0.
GUC Error ellipse: s-maj=6.9km s-min=10.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=30.5.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=69.0. Felt at San Martin. Felt [III] at Los Andes and [II] at Colina, Lampa, San Felipe, Santiago, Tiltil, Valparaiso and Villa Alemana, Chile. Also felt at Puente Alto, Quilpue and Vina del Mar.

(135) Near coast of central Chile

ISC II 14 04 56 52.8–.73 36.57S–.05 73.37W–.08 27 3.7b 22 0-159
ISCJB II 14 04 56 51.8–.73 36.67S–.05 73.41W–.07 27 3.8b **¶16304907**
GUC II 14 04 56 52.7–.41 36.61S 73.29W 12–4 4.6L
NEIC II 14 04 56 52.0 36.61S 73.29W 12 4.6L
IDC II 14 04 56 53.6–1.1 36.32S 72.97W 22–5 4.3L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.7km az=11.7.
GUC Error ellipse: s-maj=2.3km s-min=3.7km az=-1.0.
NEIC Event type fe. Felt [III] at Arauco, Chiguayante, Concepcion, Penco and Talcahuano. After GUC.
IDC Error ellipse: s-maj=37.5km s-min=23.6km az=62.0.

(395) Morocco

ISC II 14 06 02 56.1–.47 32.05N–.03 5.90W–.02 11–2 4.4b 584 1-152
IDC II 14 06 02 54.2–.65 32.07N 5.98W 0 4.8L,4.3 **¶16022734**
MOS II 14 06 02 54.5–1.1 32.04N 5.87W 10 4.5b,4.3
NEIC II 14 06 02 55.7–1.3 32.01N 5.91W 8–8 4.5b,4.3
BJI II 14 06 02 55.4 32.44N 5.96W 8 5.1s,4.9
CNRM II 14 06 02 56.1 31.95N 5.78W 0 4.3,4.9
IGIL II 14 06 02 56.2 32.07N 5.70W 1 4.1L,4.9
INMG II 14 06 02 57.4–2.8 32.19N 6.07W 0 4.2L,4.9
MDD II 14 06 02 57.6–1.1 32.02N 5.90W 11–8 4.7b,4.9
CSEM II 14 06 02 57.8–.17 32.11N 5.95W 20 4.7L,4.5b
LDG II 14 06 02 58.2–.29 32.19N 6.14W 30 3.9L,4.5b
SFS II 14 06 03 10.0 33.11N 5.83W 10 5.3L,4.5b
CRAAG II 14 06 03 10.0 33.11N 5.83W 5.3L,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=17.3km s-min=14.1km az=116.0.
MOS Error ellipse: s-maj=14.6km s-min=5.6km az=64.5.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=6.7km az=148.0. Felt at Casablanca, Er Rachidia, Ouarzazat and Rabat.
INMG Event type ke. Error ellipse: s-maj=32.2km s-min=12.4km az=73.0.
MDD Error ellipse: s-maj=7.2km s-min=4.7km az=149.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.2km az=144.0.
LDG Event type ke. Error ellipse: s-maj=7.2km s-min=6.7km az=81.0.
SFS Event type ke.

(135) Near coast of central Chile

ISC II 14 10 21 23.1–.34 35.42S–.04 73.18W–.05 10 5.0b,4.7s 203 1-175
GUC II 14 10 21 19.3–.38 35.40S 73.45W 20–4 5.1L,4.7s **¶16026120**
IDC II 14 10 21 21.3–.78 35.36S 72.91W 0 4.6,4.6s
ISCJB II 14 10 21 21.9–.19 35.37S–.03 73.15W–.04 10 4.9b,4.7s
BJI II 14 10 21 26.5 35.40S 73.10W 10 5.7s,5.6
GCMT II 14 10 21 27.3–.30 35.60S 73.41W 15–1 5.2W,5.6
NEIC II 14 10 21 27.3–2.4 35.32S 72.88W 34–16 5.1L,5.0b
ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=20.4km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=162.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c45; s83,c106; Duration: 1⇕0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.52±.29 $M_{\theta\theta}$-0.25±.15; $M_{\phi\phi}$-4.27±.20; $M_{r\theta}$0.81±.33; $M_{\theta\phi}$-0.37±.12; $M_{\phi r}$-6.55±.67; Best double couple: NP1:ϕ_s175.00000°,δ73.00000° ,λ85.00000°. NP2:ϕ_s13.00000°,δ18.00000°,λ107.00000°. Principal axes: T 8.1070,Plg61.0000°,Azm77.0000°; N -0.3450,Plg5.0000°,Azm177.0000° ; P -7.7630,Plg28.0000°,Azm270.0000° $M_0$7.93500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.1km az=65.0. Felt [III] at Concepcion and Penco.

(282) South of Jawa

ISC II 14 11 43 56.4–.49 10.10S–.05 113.81E–.04 59–3 5.0b,4.1s 392 2-152
IDC II 14 11 43 48.9–.60 9.92S 113.91E 0 5.0,5.0L **¶16024045**
BJI II 14 11 43 53.8 10.10S 113.80E 53 5.4b,5.2b
MOS II 14 11 43 54.7–.90 9.84S 113.97E 54 5.3b,5.2b
ISCJB II 14 11 43 54.3–.45 10.21S–.04 113.76E–.02 64–3 5.0b,5.2b
NEIC II 14 11 43 55.5–.77 10.06S 113.80E 48–6 4.9b,5.2b
DJA II 14 11 43 56.8–.20 10S–2.0 114E–1.0 55–3 5.9b,5.5
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Karangkates. Felt [III] at Denpasar and [II] at Kuta, Bali. Also felt at Ubud.

(135) Near coast of central Chile

ISC II 14 12 18 30.1–.45 35.59S–.07 71.9W–.10 35 4.7b,4.6s 160 5-174
IDC II 14 12 18 19.7–.69 35.44S 73.05W 0 4.5,4.5s **¶16026123**
BJI II 14 12 18 25.1 35.07S 72.51W 10 5.4s,5.3b
ISCJB II 14 12 18 28.5–.29 35.64S–.06 71.96W–.09 35 4.7b,4.6s
GCMT II 14 12 18 30.3–.30 35.65S 71.54W 13–1 5.2W,4.6s
NEIC II 14 12 18 30.3–.40 35.62S 72.00W 35 4.8b,4.6s
ISC Event type fe.
IDC Error ellipse: s-maj=26.1km s-min=16.0km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.1km az=148.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c43; s55,c64; Duration: 1⇕0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.81±.28 $M_{\theta\theta}$-1.74±.16; $M_{\phi\phi}$4.54±.24; $M_{r\theta}$3.79±.87; $M_{\theta\phi}$-0.16±.16; $M_{\phi r}$-6.42±1.25; Best double couple: NP1:ϕ_s331.00000° ,δ79.00000°,λ-108.00000°. NP2:ϕ_s211.00000°,δ21.00000°,λ-33.00000°. Principal axes: T 8.6890,Plg32.0000°,Azm76.0000°; N -0.5150,Plg17.0000°,Azm335.0000° ; P -8.1840,Plg53.0000°,Azm221.0000° $M_0$8.43700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=13.2km s-min=9.4km az=65.0. Felt [IV] at Cobquecura; [III] at Cauquenes, Chillan, Concepcion, Constitucion, Empedrado, Hualpen, Quirihue, San Pedro de la Paz and Talcahuano; [II] at Curico, Linares and Talca. Also felt at Santiago.

(543) Germany

ISC II 14 12 43 10.9–.84 50.30N–.01 7.76E–.01 6–5 4.1b 989 0-131
BJI II 14 12 43 07.8 50.14N 7.47E 10 4.9b,4.9b **¶602001594**
MOS II 14 12 43 09.4–1.2 50.31N 7.69E 10 4.3b,4.9b
IDC II 14 12 43 10.7–.82 50.32N 7.58E 0 4.2L,4.0
CSEM II 14 12 43 11.4–.08 50.29N 7.70E 8 4.8L,4.1b
UCC II 14 12 43 11.6–.42 50.28N 7.81E 0–1 4.1L,4.1b
LDG II 14 12 43 11.7–.07 50.36N 7.85E 15 4.8L,4.3
BNS II 14 12 43 12.8–.58 50.34N 7.86E 10–4 4.4L,4.3
NEIC II 14 12 43 12.7 50.34N 7.84E 12 4.5L,4.4L
BGR II 14 12 43 12.4–.17 50.37N 7.89E 10 4.5L,4.4L
BUG II 14 12 43 13.5 50.43N 7.66E 1 4.4L,4.4L
PRU II 14 12 43 14.3 50.40N 8.07E 11 4.4L,4.4L
STR II 14 12 43 15.0–.17 50.16N 7.65E 10 4.7L,4.4L
ISC Event type ke.
MOS Error ellipse: s-maj=4.8km s-min=3.4km az=64.5.
IDC Error ellipse: s-maj=14.2km s-min=10.1km az=68.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=146.0.
UCC Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=145.0.
BNS Event type ke.
NEIC Event type fe. Felt [V] in the Elz-Niederelbert area and [III] at Koblenz and Limburg. Felt widely in Hessen and Rheinland-Pfalz and in parts of Baden-Wurttemberg, Nordrhein-Westfalen and Saarland. Also felt in Luxembourg and in the Metz-Nancy area, France. After LEDBW. Moment Tensor Solution. s13 Moment tensor: Scale 10^{14}Nm; M_{rr}-8.44 $M_{\theta\theta}$8.62 $M_{\phi\phi}$-0.18 $M_{r\theta}$-1.07 $M_{\theta\phi}$-3.25 $M_{\phi r}$-3.29 Best double couple: NP1:ϕ_s309.00000° ,δ49.00000°,λ-60.00000°. NP2:ϕ_s88.00000°,δ49.00000°,λ-120.00000°. Principal axes: T 9.6900,Plg0.0000°,Azm18.0000°; N 0.1400,Plg22.0000°,Azm108.0000° ; P -9.8300,Plg68.0000°,Azm288.0000° $M_0$9.80000×10^{14}
BGR Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=23.0.
BUG Event type ki.
STR Event type ke.

(502) Arkansas

ISC II 14 18 28 38.8–1.4 35.33N–.03 92.31W–.04 2–12 37 1-3
NEIC II 14 18 28 39.0 35.33N 92.30W 6 2.5 **¶16852134**
ISC Event type fe.
NEIC Event type fe. Felt at Quitman. After CERI.

(29) Washington

ISC II 14 18 35 25.6–.87 46.29N–.02 122.21W–.02 7–6 3.9b,3.3s 109 0-149
IASPE II 14 18 35 24.9–1.2 46.29N–.02 122.21W–.03 14–5 3.9b,3.3s **¶16032009**
ISCJB II 14 18 35 25.1–.26 46.29N–.02 122.18W–.03 9–2 4.2b,3.4s
PNSN II 14 18 35 25.7 46.28N 122.21W 6 4.3,3.4s
NEIC II 14 18 35 25.7 46.28N 122.21W 6 4.3,3.9b
IDC II 14 18 35 26.0–.63 46.24N 122.03W 0 3.9,3.7
ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=3.8km s-min=3.3km az=97.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=9.9.
PNSN Moment Tensor Solution. NP1:ϕ_s73.00000°,δ80.00000° NP2:ϕ_s165.00000°,δ80.00000° Principal axes: T Plg0.0000°,Azm119.0000°; P Plg14.0000°,Azm29.0000°
NEIC Event type fe. Felt [III] at Ariel, Brush Prairie, Castle Rock, Cougar, Glenoma, Kalama, Morton, Mossyrock, Randle, Stevenson, Toutle, Washougal and Woodland. Felt in much of southwestern Washington and as far north as the Seattle area. Felt [III] at Portland and [II] from Astoria to Hood River, Oregon. After SEA. Moment Tensor Solution. s37 Moment tensor: Scale 10^{14}Nm; M_{rr}-2.53 $M_{\theta\theta}$-2.35 $M_{\phi\phi}$4.88 $M_{r\theta}$-0.73 $M_{\theta\phi}$5.64 $M_{\phi r}$-1.42 Best double couple: NP1:ϕ_s254.00000°,δ83.00000°,λ5.00000°. NP2:ϕ_s163.00000° ,δ85.00000°,λ173.00000°. Principal axes: T 8.2000,Plg8.0000°,Azm119.0000° ; N -2.7700,Plg81.0000°,Azm304.0000°; P -5.4300,Plg1.0000°,Azm209.0000° $M_0$7.20000×10^{14}
IDC Error ellipse: s-maj=9.9km s-min=7.2km az=95.0.

(161) Off west coast of South Island

ISC II 14 18 35 30.0–1.4 45.83S–.04 166.53E–.06 14–8 44 0-149
IDC II 14 18 35 28.1–1.7 45.80S 166.51E 0 4.0L,3.8 **¶16025699**
ISCJB II 14 18 35 30.0–1.1 45.83S–.05 166.48E–.09 20–8 3.5b,3.8
NEIC II 14 18 35 30.7 45.83S 166.60E 5 4.1L,3.8
WEL II 14 18 35 31.2–.24 45.83S 166.64E 5 4.1L,3.7W
ISC Event type ke.
IDC Error ellipse: s-maj=52.4km s-min=27.2km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.2km az=30.1.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.9km s-min=1.0km az=90.0. Felt from Otago to Southland, maximum reported intensity MM 4.

(162) South Island

WEL II 14 20 29 30.5–.09 43.51S 172.18E 10–0 3.6L ¶16025701
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(124) Chile-Bolivia border region

ISC II 14 21 56 45.0–.25 20.00S–.03 69.15W–.04 105–2 5.0b 961 1-179
MOS II 14 21 56 40.2–1.0 19.89S 68.96W 68 5.4b **¶16024887**
ISCJB II 14 21 56 42.7–.30 19.91S–.03 68.97W–.04 96–3 5.0b
SCB II 14 21 56 43.4–1.5 19.92S 69.59W 80 4.5L
BJI II 14 21 56 44.8 20.00S 69.00W 97 5.5b
GUC II 14 21 56 44.9–.53 20.04S 69.30W 105–4 5.6L
GCMT II 14 21 56 45.5–.20 20.13S 69.20W 124–1 5.2W
IDC II 14 21 56 45.1–.40 19.91S 69.02W 105–2 5.0,4.7
NEIC II 14 21 56 45.5–.31 19.97S 68.83W 106–2 5.2W,5.0b
SJA II 14 21 57 27.9–.95 23.04S 66.97W 20–68 3.3L,5.0b
ISC Event type fe.
MOS Error ellipse: s-maj=15.2km s-min=7.1km az=117.8.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=149.6.
SCB Event type ke. Error ellipse: s-maj=110.0km s-min=39.3km az=111.0.
GUC Error ellipse: s-maj=1.3km s-min=4.2km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c82; s93,c156; Duration: 1⇕0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.33±.02 $M_{\theta\theta}$-0.20±.02; $M_{\phi\phi}$0.53±.03; $M_{r\theta}$0.45±.01; $M_{\theta\phi}$0.53±.02; $M_{\phi r}$-0.34±.02; Best double couple: NP1:ϕ_s350.00000°,δ67.00000° ,λ-144.00000°. NP2:ϕ_s244.00000°,δ57.00000°,λ-28.00000°. Principal axes: T 0.8200,Plg6.0000°,Azm115.0000°; N 0.1460,Plg48.0000°,Azm19.0000° ; P -0.9660,Plg41.0000°,Azm210.0000° $M_0$0.89300×10^{17}
IDC Error ellipse: s-maj=13.1km s-min=10.5km az=46.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.8km az=62.0. Felt [V] at Camina, Huara and Pozo Almonte; [IV] at Alto Hospicio, Arica, Cuya and Iquique; [III] at Pisagua and Putre. Moment Tensor Solution. s13 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.22 $M_{\theta\theta}$0.04 $M_{\phi\phi}$4.18 $M_{r\theta}$2.25 $M_{\theta\phi}$5.09 $M_{\phi r}$-5.73 Best double couple: NP1:ϕ_s359.00000°,δ72.00000°,λ-12.00000°. NP2:ϕ_s247.00000°,δ42.00000°,λ-28.00000°. Principal axes: T 10.1000,Plg62.0000° ,Azm97.0000°; N -3.0000,Plg16.0000°,Azm335.0000°; P -7.2000,Plg23.0000° ,Azm238.0000° $M_0$9.00000×10^{16}
SJA Error ellipse: s-maj=31.6km s-min=39.2km az=-1.0.

(296) Myanmar

ISC II 14 23 44 34.2–.66 26.06N–.04 96.20E–.04 64–6 4.6b 238 4-162
IDC II 14 23 44 25.8–.51 26.06N 96.35E 0 4.4,4.3b **¶16024890**
MOS II 14 23 44 30.8–.95 26.05N 96.31E 50 4.9b,4.3b
ISCJB II 14 23 44 32.1–.63 26.03N–.03 96.25E–.03 62–6 4.6b,4.3b
NEIC II 14 23 44 33.5–.68 26.11N 96.33E 59–6 4.8b,4.3b
BJI II 14 23 44 34.1 26.37N 96.27E 63 4.8b,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=18.0km s-min=12.2km az=51.0.
MOS Error ellipse: s-maj=11.3km s-min=4.8km az=121.5.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.3km az=27.1.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=3.9km az=60.0. Felt at Dibrugarh, Khonsa and Margherita, India.

(115) Near coast of Peru

ISC II 15 00 26 35.5–.62 15.94S–.08 74.32W–.06 49 4.0b 37 3-148
IDC II 15 00 26 29.5–.91 15.96S 74.33W 0 3.9,3.8 **¶16398218**
ISCJB II 15 00 26 33.9–.53 15.92S–.06 74.30W–.05 49 4.3b,3.8
NEIC II 15 00 26 33.0 16.12S 74.67W 37 4.8b,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=29.1km s-min=21.3km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.0km az=30.8.
NEIC Event type fe. Felt [II] at Chala. After ARE.

(164) Off east coast of South Island

WEL II 15 06 01 29.4–.14 42.17S 174.05E 12 3.6L ¶16027432
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=90.0. Felt in the Marlborough region, maximum reported intensity MM 4.

(243) Taiwan region

ISC II 15 07 18 19.6–.21 21.12N–.02 121.19E–.03 39–2 5.4b,5.0s 965 1-175
NIED II 15 07 18 00 21.20N 121.10E 23 5.2W,5.0s **¶16024897**
JMA II 15 07 18 15.1–.70 21.19N 121.10E 0 5.4,5.0s
BJI II 15 07 18 15.0 21.10N 121.15E 10 5.2b,5.2s
GCMT II 15 07 18 17.6–.10 21.10N 120.89E 34–0 5.5W,5.2s
MOS II 15 07 18 17.4–1.0 21.12N 121.25E 36 5.6b,5.0s
NEIC II 15 07 18 17.6–.09 21.10N 121.19E 25 5.7L,5.6b
TAP II 15 07 18 17.8 21.18N 121.20E 71–0 5.5L,5.6b
ISCJB II 15 07 18 17.7–.19 21.088N–.01 121.21E–.01 37–1 5.3b,5.0s

IDC II 15 07 18 18.9–1.2 21.11N 121.26E 36–9 5.0,4.9
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ37.00000°,λ133.00000°. NP2:ϕ_s139.00000°,δ64.00000°,λ63.00000°. $M_0$8.03000×10^{16}
JMA Error ellipse: s-maj=5.6km s-min=4.1km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c192; s112,c237;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31±.03 $M_{\theta\theta}$0.22±.02; $M_{\phi\phi}$-1.53±.02; $M_{r\theta}$-0.23±.02; $M_{\theta\phi}$-0.04±.01; $M_{\theta r}$-1.37±.03; Best double couple: NP1: ϕ_s188.00000°,δ67.00000°,λ96.00000°. NP2:ϕ_s353.00000°,δ23.00000°,λ77.00000°. Principal axes: T 1.8870,Plg67.0000°,Azm108.0000°; N 0.2020,Plg5.0000°,Azm5.0000° ; P -2.0890,Plg22.0000°,Azm273.0000° $M_0$1.98800×10^{17}
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=89.0. Felt [III PIVS] at Basco, Philippines. Recorded [2 TAP] in Taitung and [1 TAP] in Pingtung, Taiwan. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94 $M_{\theta\theta}$0.71 $M_{\phi\phi}$-1.65 $M_{r\theta}$-0.10 $M_{\theta\phi}$0.54 $M_{\theta r}$-0.76 Best double couple: NP1:ϕ_s192.00000°,δ65.00000°,λ122.00000°. NP2: ϕ_s316.00000°,δ40.00000°,λ41.00000°. Principal axes: T 1.2700,Plg57.0000°,Azm146.0000° ; N 0.6800,Plg29.0000°,Azm357.0000°; P -1.9500,Plg14.0000°,Azm259.0000° $M_0$1.70000×10^{17}
TAP C.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=4.2.
IDC Error ellipse: s-maj=10.5km s-min=7.4km az=67.0.

(9) Fox Islands

ISC	**II**	**15 09 18 28.2–.66**	**52.76N–.06**	**169.43W–.03**	**33–4**	**4.8b,3.9s**	**837**	**0-154**
IDC	II	15 09 18 24.2–2.8	52.68N	169.51W	9–16	4.4,4.3		**¶16025703**
GCMT	II	15 09 18 25.1–.30	52.59N	169.31W	17–0	5.0W,4.3		
NEIC	II	15 09 18 25.1	52.58N	169.31W	15	4.9b,4.6L		
ISCJB	II	15 09 18 27.8–.35	52.81N–.03	169.47W–.03	45–2	4.8b,3.9s		
BJI	II	15 09 18 29.3	52.78N	169.59W	58	5.1b,4.8s		
MOS	II	15 09 18 31.2–1.1	52.90N	169.40W	70	5.1b,4.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=11.4km az=178.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c48; s86,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.67±.20 $M_{\theta\theta}$1.90±.14; $M_{\phi\phi}$1.77±.12; $M_{r\theta}$0.34±.36; $M_{\theta\phi}$-1.44±.08; $M_{\phi r}$0.34±.33; Best double couple: NP1:ϕ_s307.00000°,δ46.00000° ,λ-99.00000°. NP2:ϕ_s140.00000°,δ45.00000°,λ-81.00000°. Principal axes: T 3.2770,Plg0.0000°,Azm44.0000°; N 0.4500,Plg7.0000°,Azm314.0000° ; P -3.7260,Plg83.0000°,Azm135.0000° $M_0$3.50100×10^{16}
NEIC Event type fe. Felt at Nikolski. After AEIC.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.5km az=175.6.
MOS Error ellipse: s-maj=8.5km s-min=6.1km az=70.0.

(268) Sulawesi

ISC	**II**	**15 13 33 54.3–.38**	**2.49S–.02**	**121.47E–.03**	**27–2**	**5.8s,5.8b**	**936**	**2-168**
BJI	II	15 13 33 43.4	3.41S	121.66E	15	6.0s,5.8		**¶602064505**
IDC	II	15 13 33 49.9–.33	2.42S	121.44E	0	5.6,5.6s		
MOS	II	15 13 33 53.8–1.6	2.39S	121.48E	34	5.9b,5.8s		
NEIC	II	15 13 33 53.2–.90	2.50S	121.48E	16–5	6.1W,6.1W		
NEIC	II	15 13 33 53.0–.00	2.47S	121.54E	20	6.1W,6.1W		
ISCJB	II	15 13 33 53.8–.25	2.47S–.01	121.52E–.01	37–2	5.8s,5.6b		
GCMT	II	15 13 33 53.2–.10	2.45S	121.57E	13–0	6.1W,5.6b		
KLM	II	15 13 33 53.6	2.47S	121.66E	28	6.7s,6.3L		
DJA	II	15 13 33 55.0–.40	2S–1.0	122E–1.0	15–4	6.3b,6.3		
NEIC	II	15 13 34 05.8–.00	2.66S	121.45E	10	6.3b,6.3		

ISC Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=8.6km az=57.0.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=112.2.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=50.0. Felt [V] at Poso and Soroako; [III] at Luwuk, Masamba and Palopo; [II] at Kendari. Also felt at Banggae. Moment Tensor Solution. s22 Moment tensor: Scale 10^{18}Nm; M_{rr}0.14 $M_{\theta\theta}$1.10 $M_{\phi\phi}$-1.24 $M_{r\theta}$0.06 $M_{\theta\phi}$1.30 $M_{\phi r}$0.27 Best double couple: NP1:ϕ_s201.00000°,δ90.00000°,λ-171.00000°. NP2: ϕ_s111.00000°,δ81.00000°,λ0.00000°. Principal axes: T 1.7000,Plg6.0000°,Azm336.0000° ; N 0.1500,Plg81.0000°,Azm203.0000°; P -1.8400,Plg6.0000°,Azm66.0000° $M_0$1.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ87.00000° ,λ-142.00000°. NP2:ϕ_s111.00000°,δ53.00000°,λ-3.00000°. Principal axes: T 1.6200,Plg23.0000°,Azm331.0000°; N -0.0400,Plg52.0000°,Azm207.0000° ; P -1.5900,Plg27.0000°,Azm74.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.3km az=159.6.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c272; s144,c500;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.14±.01 $M_{\theta\theta}$0.98±.01; $M_{\phi\phi}$-0.84±.01; $M_{r\theta}$0.35±.03; $M_{\theta\phi}$1.15±.01; $M_{\phi r}$0.43±.03; Best double couple: NP1:ϕ_s19.00000°,δ87.00000°,λ161.00000°. NP2:ϕ_s110.00000° ,δ71.00000°,λ3.00000°. Principal axes: T 1.6800,Plg16.0000°,Azm333.0000° ; N -0.2380,Plg71.0000°,Azm190.0000°; P -1.4430,Plg11.0000°,Azm66.0000° $M_0$1.56100×10^{18}
NEIC Event type se. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.09 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-0.76 $M_{r\theta}$0.28 $M_{\theta\phi}$1.01 $M_{\phi r}$0.61 Best double couple: NP1:ϕ_s110.00000° ,δ62.00000°,λ-1.00000°. NP2:ϕ_s200.00000°,δ89.00000°,λ-152.00000°. Principal axes: T 1.5200,Plg19.0000°,Azm331.0000°; N -0.1200,Plg63.0000°,Azm201.0000° ; P -1.4000,Plg19.0000°,Azm68.0000° $M_0$1.40000×10^{18}

(238) Ryukyu Islands

ISC	**II**	**15 14 12 52.1–.55**	**25.95N–.03**	**128.40E–.03**	**17–3**	**5.4s,5.4b**	**848**	**1-169**
NIED	II	15 14 12 00	26.00N	128.40E	11	5.1W,5.4b		**¶16026141**
BJI	II	15 14 12 46.0	25.73N	128.53E	5	5.6b,5.4s		
IDC	II	15 14 12 49.5–.34	25.95N	128.34E	0	5.0,5.0		
NEIC	II	15 14 12 50.4–.99	25.91N	128.29E	4–6	5.4b,5.0		
GCMT	II	15 14 12 50.4–.30	25.90N	128.27E	13–1	5.2W,5.0		
ISCJB	II	15 14 12 50.2–.09	25.92N–.01	128.34E–.01	10	5.4s,5.2b		
JMA	II	15 14 12 52.8–.30	25.96N	128.44E	41–4	5.4,5.2b		
MOS	II	15 14 12 55.4–1.1	26.34N	128.25E	33	5.6b,5.4s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ17.00000°,λ132.00000°. NP2:ϕ_s211.00000°,δ77.00000°,λ78.00000°. $M_0$5.77000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=8.8km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=128.0. Felt [III] on Okinawa.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c15; s58,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.55±.40 $M_{\theta\theta}$1.45±.23; $M_{\phi\phi}$2.10±.25; $M_{r\theta}$1.76±.53; $M_{\theta\phi}$1.83±.14; $M_{\phi r}$5.13±.93; Best double couple: NP1:ϕ_s203.00000°,δ74.00000° ,λ-100.00000°. NP2:ϕ_s55.00000°,δ19.00000°,λ-60.00000°. Principal axes: T 6.3770,Plg28.0000°,Azm301.0000°; N 0.2490,Plg9.0000°,Azm206.0000° ; P -6.6270,Plg60.0000°,Azm99.0000° $M_0$6.50200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=143.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=97.5.

(238) Ryukyu Islands

ISC	**II**	**15 17 23 53.3–.88**	**25.96N–.04**	**128.38E–.03**	**29–5**	**4.6b,4.3s**	**230**	**1-150**
NIED	II	15 17 23 00	25.90N	128.50E	17	4.6W,4.3s		**¶16026453**
BJI	II	15 17 23 47.2	25.72N	128.53E	16	4.9b,4.6s		
IDC	II	15 17 23 48.8–.48	25.91N	128.32E	0	4.3,4.3b		
NEIC	II	15 17 23 50.9–1.5	25.95N	128.31E	13–9	4.8b,4.3b		
ISCJB	II	15 17 23 50.4–.62	25.90N–.02	128.42E–.03	24–4	4.6b,4.2s		
JMA	II	15 17 23 51.6–.30	25.94N	128.47E	42	4.6,4.2s		
MOS	II	15 17 23 51.8–1.3	25.95N	128.39E	33	4.7b,4.2s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ38.00000°,λ86.00000°. NP2:ϕ_s46.00000°,δ52.00000°,λ93.00000°. $M_0$7.67000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=10.8km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.7km az=129.0. Felt [II] at Chatan. Also felt at Gushikawa, Naha, Okinawa and Yomitan. Recorded [1 JMA] on Okinawa.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=137.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=5.8km az=98.5.

(229) Off east coast of Honshu

ISC	**II**	**15 19 01 02.3–.38**	**38.37N–.03**	**143.29E–.03**	**20–2**	**5.2b,5.0s**	**756**	**1-164**
IDC	II	15 19 00 58.5–.51	38.27N	143.41E	0	4.9,4.9		**¶16026457**
ISCJB	II	15 19 00 59.1–.74	38.30N–.02	143.26E–.02	7–4	5.2b,5.0s		
JMA	II	15 19 01 00.3–.20	38.34N	143.44E	38	5.5,5.0s		
NIED	II	15 19 01 00	38.30N	143.40E	17	5.2W,5.0s		
BJI	II	15 19 01 00.4	38.30N	142.99E	12	5.5b,5.4		
MOS	II	15 19 01 02.7–1.1	38.36N	143.25E	33	5.5b,4.9s		
GCMT	II	15 19 01 03.4–.20	38.36N	143.49E	22–0	5.2W,4.9s		
NEIC	II	15 19 01 03.4–1.6	38.32N	143.16E	26–11	5.5W,5.2b		

ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=150.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ31.00000°,λ101.00000°. NP2:ϕ_s19.00000°,δ59.00000°,λ83.00000°. $M_0$7.41000×10^{16}
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=108.1.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c99; s107,c194; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59±.02 $M_{\theta\theta}$-0.06±.01; $M_{\phi\phi}$-0.53±.01; $M_{r\theta}$0.24±.02; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s23.00000°,δ68.00000° ,λ91.00000°. NP2:ϕ_s200.00000°,δ22.00000°,λ87.00000°. Principal axes: T 0.8470,Plg67.0000°,Azm295.0000°; N 0.0280,Plg1.0000°,Azm202.0000° ; P -0.8750,Plg23.0000°,Azm112.0000° $M_0$0.86100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=131.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.14 $M_{\theta\theta}$-0.56 $M_{\phi\phi}$-0.58 $M_{r\theta}$1.00 $M_{\theta\phi}$0.27 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s180.00000° ,δ12.00000°,λ64.00000°. NP2:ϕ_s27.00000°,δ79.00000°,λ95.00000°. Principal axes: T 2.4700,Plg55.0000°,Azm304.0000°; N -0.7900,Plg5.0000°,Azm206.0000° ; P -1.6800,Plg34.0000°,Azm112.0000° $M_0$2.20000×10^{17}

(229) Off east coast of Honshu

ISC	**II**	**15 19 06 53.6–.52**	**38.43N–.04**	**142.98E–.04**	**28–3**	**5.2s,5.2b**	**611**	**1-145**
NIED	II	15 19 06 00	38.40N	143.40E	17	5.0W,5.2b		**¶16026458**
IDC	II	15 19 06 47.7–.52	38.27N	143.24E	0	4.9,4.8		
JMA	II	15 19 06 49.5–.20	38.36N	143.39E	36	5.3,4.8		
BJI	II	15 19 06 50.1	38.32N	142.79E	11	5.5b,5.3b		
GCMT	II	15 19 06 51.4–.30	38.40N	143.45E	26–1	5.1W,5.3b		
NEIC	II	15 19 06 51.4–.20	38.39N	142.80E	10	5.2b,5.3b		
ISCJB	II	15 19 06 52.8–.14	38.44N–.02	142.89E–.03	28	5.2s,5.1b		
MOS	II	15 19 06 54.5–1.1	38.70N	142.82E	33	5.5b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ30.00000°,λ102.00000°. NP2:ϕ_s14.00000°,δ61.00000°,λ83.00000°. $M_0$3.70000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c28; s91,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.05±.30 $M_{\theta\theta}$-0.50±.16; $M_{\phi\phi}$-3.55±.19; $M_{r\theta}$1.11±.29; $M_{\theta\phi}$-1.03±.09; $M_{\phi r}$4.26±.32; Best double couple: NP1:ϕ_s15.00000°,δ69.00000° ,λ89.00000°. NP2:ϕ_s199.00000°,δ21.00000°,λ93.00000°. Principal axes: T 6.0140,Plg66.0000°,Azm283.0000°; N -0.1890,Plg1.0000°,Azm16.0000° ; P -5.8250,Plg24.0000°,Azm106.0000° $M_0$5.92000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=142.0. Recorded [1 JMA] in Fukushima, Iwate, Miyagi and Yamagata.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.1km az=144.3.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.3.

(502) Arkansas

ISC	**II**	**15 22 35 22.6–.96**	**35.23N–.02**	**92.36W–.02**	**5–7**		**82**	**0-7**
ISCJB	II	15 22 35 22.2–.49	35.22N–.02	92.38W–.02	1–3			**¶16398297**
NEIC	II	15 22 35 23.1	35.27N	92.37W	6	2.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=159.8.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Damascus. After CERI.

(228) Near east coast of eastern Honshu

ISC	**II**	**16 01 30 17.1–.87**	**35.67N–.04**	**140.82E–.05**	**45–8**	**4.2b**	**86**	**0-148**
NIED	II	16 01 30 00	35.70N	140.80E	50	4.3W		**¶16168861**
ISCJB	II	16 01 30 16.3–.46	35.66N–.03	140.78E–.05	54–3	4.2b,2.6s		
IDC	II	16 01 30 16.9–2.0	35.67N	140.78E	40–18	4.1,4.1		
NEIC	II	16 01 30 17.1–.59	35.65N	140.80E	44–5	4.5b,4.1		
JMA	II	16 01 30 17.8–.10	35.72N	140.69E	46–1	4.1,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ89.00000°. NP2:ϕ_s11.00000°,δ70.00000°,λ90.00000°. $M_0$2.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=175.9.
IDC Error ellipse: s-maj=15.5km s-min=10.9km az=87.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=90.0. Recorded [2 JMA] in Chiba and [1 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ79.00000°,λ86.00000°. NP2: ϕ_s203.00000°,δ12.00000°,λ111.00000°. Principal axes: T Plg56.0000°,Azm266.0000° ; N Plg4.0000°,Azm2.0000°; P Plg34.0000°,Azm95.0000°

(192) New Britain region

ISC	**II**	**16 02 15 38.6–.39**	**6.15S–.03**	**149.43E–.05**	**49–2**	**5.1s,4.9b**	**388**	**3-154**
IDC	II	16 02 15 30.5–.33	6.07S	149.44E	0	4.8,4.8		**¶16026466**
ISCJB	II	16 02 15 36.1–.70	6.11S–.03	149.44E–.04	45–6	5.1s,4.9b		
MOS	II	16 02 15 36.6–1.3	6.08S	149.36E	48	5.2b,5.0s		
BJI	II	16 02 15 37.6	6.20S	149.40E	58	5.3b,5.1s		
GCMT	II	16 02 15 38.2–.10	6.30S	149.49E	48–0	5.5W,5.1s		
NEIC	II	16 02 15 38.2–.82	6.12S	149.40E	49–7	5.4W,5.2s		
DJA	II	16 02 16 11.3–1.2	8S–9.0	148E–13	167–6	5.4,5.2b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s117,c208; s117,c229;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.39±.04 $M_{\theta\theta}$-2.80±.03; $M_{\phi\phi}$0.41±.03; $M_{r\theta}$0.36±.03; $M_{\theta\phi}$-0.01±.03; $M_{\phi r}$-0.31±.03; Best double couple: NP1:ϕ_s98.00000°,δ50.00000°,λ101.00000°. NP2:ϕ_s261.00000° ,δ42.00000°,λ77.00000°. Principal axes: T 2.4610,Plg81.0000°,Azm65.0000° ; N 0.3700,Plg8.0000°,Azm271.0000°; P -2.8250,Plg4.0000°,Azm180.0000° $M_0$2.64300×10^{17}
NEIC Event type fe. Felt at Kimbe. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17}Nm; M_{rr}1.36 $M_{\theta\theta}$-1.06 $M_{\phi\phi}$-0.30 $M_{r\theta}$0.53 $M_{\theta\phi}$-0.53 $M_{\phi r}$-0.13 Best double couple: NP1:ϕ_s76.00000° ,δ55.00000°,λ105.00000°. NP2:ϕ_s231.00000°,δ38.00000°,λ69.00000°. Principal axes: T 1.5000,Plg75.0000°,Azm31.0000°; N -0.1100,Plg12.0000°,Azm247.0000° ; P -1.4000,Plg9.0000°,Azm155.0000° $M_0$1.50000×10^{17}

(73) El Salvador

ISC	**II**	**16 02 38 31.9–.71**	**13.06N–.06**	**89.24W–.05**	**67–5**	**4.2b**	**263**	**0-138**
ISCJB	II	16 02 38 32.5–.44	13.11N–.05	89.17W–.04	80–2	4.1b		**¶16029608**
NEIC	II	16 02 38 32.5–1.1	13.11N	88.84W	74–8	4.3b,4.2		
CASC	II	16 02 38 34.1–.90	13.13N	89.21W	59–6	4.3b,4.2L		
IDC	II	16 02 38 37.3–3.0	13.26N	88.84W	113–25	4.1s,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=3.6km az=37.7.
NEIC Event type fe. Error ellipse: s-maj=19.3km s-min=10.6km az=52.0. Felt [III] at San Salvador.
CASC Error ellipse: s-maj=4.8km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=35.0km s-min=17.3km az=49.0.

(228) Near east coast of eastern Honshu

ISC	**II**	**16 06 17 41.3–.79**	**35.72N–.04**	**140.72E–.05**	**48–7**	**3.7b**	**36**	**0-79**
NIED	II	16 06 17 00	35.70N	140.90E	47	3.9W		**¶17192348**
ISCJB	II	16 06 17 40.0–.46	35.70N–.03	140.75E–.06	56–4	3.6b,2.9s		
JMA	II	16 06 17 40.7–.10	35.72N	140.70E	48–1	3.4,2.9s		
IDC	II	16 06 17 42.3–2.3	35.59N	140.55E	58–21	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ23.00000°,λ99.00000°. NP2:ϕ_s10.00000°,δ68.00000°,λ86.00000°. $M_0$9.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.7km az=177.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.7km s-min=11.7km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**II**	**16 09 14 01.3–.84**	**39.86N–.04**	**142.33E–.07**	**84–7**	**3.8b**	**50**	**0-145**
ISCJB	II	16 09 14 00.4–.48	39.88N–.03	142.31E–.07	91–3	3.9b		**¶17192357**
NIED	II	16 09 14 00	39.90N	142.30E	83	3.9W		
IDC	II	16 09 14 01.3–1.7	39.87N	142.30E	83–15	4.0,3.8		
JMA	II	16 09 14 01.5–.10	39.89N	142.30E	83–1	4.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.2km az=13.2.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ15.00000°,λ-110.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-85.00000°. $M_0$8.96000×10^{14}

IDC Error ellipse: s-maj=15.4km s-min=11.0km az=119.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(333) Tuva-Buryatia-Mongolia border region

ISC	**II**	**16 10 13 34.9–.83**	**51.94N–.04**	**100.08E–.03**	**3–5**		**70**	**1-34**
OBM	II	16 10 13 32.3–.23	51.97N	99.98E	2	4.0L		**¶16166854**
BYKL	II	16 10 13 34.6–.71	51.92N	100.01E		4.0L		
MOS	II	16 10 13 35.2–1.3	52.02N	100.05E	11	4.7b		

ISC Event type se.
OBM Error ellipse: s-maj=4.2km s-min=1.7km az=179.0.
BYKL Event type se. FELT I=IV MSK at Sorok.
MOS Event type fe. Error ellipse: s-maj=14.0km s-min=10.7km az=33.5. Felt (III) at Sorok. Moment Tensor Solution.

(502) Arkansas

ISC	**II**	**16 10 53 12.9–1.1**	**35.29N–.02**	**92.38W–.02**	**5–10**		**64**	**1-5**
NEIC	II	16 10 53 13.8	35.28N	92.37W	6	2.6		**¶601793098**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(703) Andaman Islands region

ISC	**II**	**16 10 55 26.2–.44**	**10.56N–.04**	**91.67E–.04**	**22–2**	**4.7b,4.2s**	**316**	**2-147**
IDC	II	16 10 55 22.8–.51	10.61N	91.74E	0	4.4,4.3		**¶16398340**
ISCJB	II	16 10 55 23.0–.75	10.52N–.03	91.62E–.02	16–5	4.6b,4.1s		
BJI	II	16 10 55 24.4	10.42N	91.78E	30	5.1b,4.7b		
DJA	II	16 10 55 25.9–.30	10N–4.0	92E–3.0	10	5.2,5.2b		
MOS	II	16 10 55 26.2–1.1	10.65N	91.81E	37	4.9b,5.2b		
NEIC	II	16 10 55 26.2–.20	10.58N	91.74E	21	4.7b,5.2b		
BKK	II	16 10 55 27.9–.30	11N–3.0	92E–3.0	10	5.0b,4.7		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Port Blair.

(502) Arkansas

ISC	**II**	**16 14 39 07.5–1.1**	**35.26N–.02**	**92.36W–.02**	**2–10**		**99**	**0-5**
NEIC	II	16 14 39 08.2	35.28N	92.37W	6	2.7		**¶601793104**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Pine Bluff. After CERI.

(502) Arkansas

ISC	**II**	**16 15 52 35.1–1.3**	**35.26N–.03**	**92.36W–.02**	**1–11**		**82**	**0-7**
ISCJB	II	16 15 52 35.2–.67	35.26N–.02	92.37W–.02	4–5			**¶601793108**
NEIC	II	16 15 52 36.0	35.28N	92.37W	6	2.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=165.1.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(268) Sulawesi

ISC	**II**	**16 16 39 52.8–.57**	**2.52S–.04**	**121.65E–.04**	**42–5**	**4.4b,3.8s**	**119**	**2-120**
IDC	II	16 16 39 46.5–.57	2.38S	121.64E	0	4.3,4.2		**¶16030493**
BJI	II	16 16 39 48.1	2.72S	121.92E	35	5.0b,4.6b		
ISCJB	II	16 16 39 51.0–.37	2.53S–.02	121.69E–.02	45–4	4.4b,3.8s		
DJA	II	16 16 39 51.3–1.3	3S–2.0	122E–2.0	25–16	5.1b,5.0b		
NEIC	II	16 16 39 52.4–.58	2.47S	121.67E	43–6	4.5b,5.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=22.8km s-min=11.5km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.9km az=36.4.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=61.0. Felt [III] at Soroako.

(502) Arkansas

ISC	**II**	**16 17 07 02.2–.71**	**35.27N–.02**	**92.38W–.02**	**10**		**122**	**0-6**
ISCJB	II	16 17 07 02.1–.21	35.25N–.02	92.37W–.02	10			**¶601793110**
NEIC	II	16 17 07 02.3	35.27N	92.37W	6	2.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=156.4.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway and Malvern. After CERI.

(134) Off coast of central Chile

ISC	**II**	**16 18 09 30.1–.51**	**33.96S–.04**	**72.37W–.07**	**17**	**4.8b**	**55**	**1-166**
IDC	II	16 18 09 27.4–.62	33.94S	72.32W	0	4.6,4.5		**¶16339752**
ISCJB	II	16 18 09 28.1–.47	33.95S–.03	72.60W–.06	17	4.8b,3.7s		
GUC	II	16 18 09 28.2–.38	33.93S	72.46W	10	4.8L,3.7s		
NEIC	II	16 18 09 32.1–2.8	33.90S	72.33W	30–19	4.8L,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=25.5km s-min=16.8km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=7.2.
GUC Error ellipse: s-maj=1.3km s-min=4.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.1km s-min=7.4km az=89.0. Felt [III] at Navidad and Pichilemu and [II] at Quillota and Valparaiso.

(1) Central Alaska

ISC	**II**	**16 18 12 53.8–.83**	**62.98N–.03**	**149.67W–.03**	**92–6**	**3.8b**	**100**	**0-54**
IDC	II	16 18 12 51.8–1.4	62.94N	149.71W	66–21	3.9,3.8		**¶16339753**
ISCJB	II	16 18 12 52.8–.24	62.99N–.02	149.64W–.05	99–3	3.6b,3.8		
NEIC	II	16 18 12 54.0	62.99N	149.69W	88	3.6,3.8		

ISC Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=9.7km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.2km az=21.2.
NEIC Event type fe. Felt at Cantwell. After AEIC.

(227) Eastern Honshu

ISC	**II**	**16 20 23 14.1–1.2**	**37.51N–.05**	**140.96E–.06**	**78–7**		**31**	**0-57**
ISCJB	II	16 20 23 13.3–.77	37.49N–.05	140.98E–.07	82–5	3.4b		**¶17192382**
JMA	II	16 20 23 14.6	37.50N	140.86E	76–1	3.3		
IDC	II	16 20 23 17.4–1.8	37.90N	140.32E	132–16	3.4,3.1		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.5km az=34.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s178.00000°,δ84.00000°,λ119.00000°. NP2:ϕ_s278.00000°,δ30.00000°,λ11.00000°. Principal axes: T Plg43.0000°,Azm116.0000°; N Plg29.0000°,Azm355.0000°; P Plg33.0000°,Azm244.0000°
IDC Error ellipse: s-maj=36.8km s-min=13.3km az=115.0.

(460) Wyoming

ISC	**II**	**16 21 05 02.5–.76**	**44.00N–.04**	**105.27W–.03**	**0**		**37**	**1-19**
ISCJB	II	16 21 05 00.9–.46	44.06N–.04	105.21W–.04	0			**¶17192384**
NEIC	II	16 21 05 02.5–.42	44.00N	105.20W	0	3.3L		
IDC	II	16 21 05 03.8–1.9	44.20N	105.73W	0	3.6,3.6L		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.4km s-min=4.5km az=7.9.
NEIC Event type fm. Error ellipse: s-maj=7.4km s-min=5.1km az=173.0. 40 km [25 miles] SE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=24.2km s-min=15.7km az=158.0.

(502) Arkansas

ISC	**II**	**16 21 46 16.1–.83**	**35.28N–.02**	**92.35W–.01**	**6–6**		**231**	**0-11**
ISCJB	II	16 21 46 15.5–.43	35.27N–.01	92.39W–.01	2–3			**¶16030497**
NEIC	II	16 21 46 17.1	35.27N	92.36W	7	3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.7km az=153.6.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Fairfield Bay, Hot Springs National Park, Little Rock, Quitman and Vilonia. After CERI.

(502) Arkansas

ISC	**II**	**16 23 05 52.9–1.4**	**35.24N–.03**	**92.34W–.03**	**2–11**		**51**	**0-4**
ISCJB	II	16 23 05 52.7–.75	35.25N–.02	92.32W–.03	1–5			**¶16852142**
NEIC	II	16 23 05 54.0	35.26N	92.36W	5	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=32.6.
NEIC Event type fe. Felt at Greenbrier. After CERI.

(238) Ryukyu Islands

ISC	**II**	**16 23 45 12.2–.26**	**25.94N–.03**	**128.42E–.03**	**21–2**	**5.5b,5.0s**	**1253**	**1-175**
NIED	II	16 23 45 00	26.00N	128.50E	17	5.1W,5.0s		**¶16029824**
BJI	II	16 23 45 04.7	25.73N	128.64E	5	5.3,5.3s		
ISCJB	II	16 23 45 09.0–.08	25.91N–.01	128.33E–.01	6	5.4b,5.0s		
IDC	II	16 23 45 08.8–.28	25.92N	128.33E	0	5.3,5.3b		
NEIC	II	16 23 45 10.4–1.0	25.91N	128.28E	7–6	5.5b,5.3b		
GCMT	II	16 23 45 10.4–.30	25.88N	128.55E	21–1	5.2W,5.3b		
MOS	II	16 23 45 12.9–1.1	25.97N	128.33E	33	5.7b,5.1s		
JMA	II	16 23 45 12.7–.30	25.97N	128.42E	46–5	5.3,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ32.00000°,λ52.00000°. NP2:ϕ_s53.00000°,δ66.00000°,λ111.00000°. $M_0$5.72000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=135.9.
IDC Error ellipse: s-maj=12.5km s-min=7.9km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.5km az=118.0. Felt [III] at Ishikawa and [II] at Chatan, Ginowan, Naha, Okinawa and Yomitan. Also felt at Gushikawa and Urasoe. Recorded [2 JMA] on Okinawa and in the Kerama-retto and [1 JMA] on Aguni-jima.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c61; s57,c73; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.84±.31 $M_{\theta\theta}$-1.32±.18; $M_{\phi\phi}$-3.52±.22; $M_{r\theta}$4.48±.46; $M_{\theta\phi}$-1.18±.10; $M_{\phi r}$4.97±.52; Best double couple: NP1:ϕ_s38.00000°,δ73.00000°,λ96.00000°. NP2:ϕ_s197.00000°,δ18.00000°,λ69.00000°. Principal axes: T 8.5280,Plg61.0000°,Azm318.0000°; N -1.0410,Plg6.0000°,Azm217.0000°; P -7.4880,Plg28.0000°,Azm123.0000° $M_0$8.00800×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=3.8km az=106.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.

(502) Arkansas

ISC	**II**	**17 01 36 44.8–.71**	**35.27N–.03**	**92.35W–.02**	**10**		**68**	**0-6**
ISCJB	II	17 01 36 45.2–.26	35.25N–.02	92.37W–.02	10			**¶601793141**
NEIC	II	17 01 36 45.0	35.28N	92.35W	6	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=155.0.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(502) Arkansas

ISC	**II**	**17 02 53 25.3–1.1**	**35.26N–.02**	**92.38W–.02**	**3–8**		**129**	**0-22**
NEIC	II	17 02 53 26.0	35.27N	92.36W	6	3.2		**¶16852146**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Enola. After CERI.

(249) Luzon

MAN	**II**	**17 03 54 50**	**16.46N**	**120.48E**	**16**	**4.6b,3.4L**		
								¶601668563

MAN Event type fe. INTENSITY II - BAGUIO CITY.

(502) Arkansas

ISC	**II**	**17 04 09 39.2–1.2**	**35.26N–.03**	**92.35W–.02**	**3–11**		**57**	**0-5**
NEIC	II	17 04 09 40.0	35.27N	92.35W	6	2.6		**¶601793148**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. Also felt at Edgemont. After CERI.

(502) Arkansas

ISC	**II**	**17 06 02 43.9–1.3**	**35.25N–.02**	**92.36W–.03**	**2–11**		**52**	**0-5**
ISCJB	II	17 06 02 43.2–.75	35.24N–.02	92.31W–.04	2–5			**¶16398389**
NEIC	II	17 06 02 44.0	35.26N	92.35W	6	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=18.2.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(98) Trinidad

ISC	**II**	**17 09 07 17.2–.94**	**10.63N–.05**	**61.61W–.02**	**16–6**		**22**	**0-7**
ISCJB	II	17 09 07 17.1–.49	10.61N–.05	61.62W–.02	14–4			**¶600743866**
TRN	II	17 09 07 17.3	10.64N	61.59W	14	3.2		
FUNV	II	17 09 07 20.7	10.77N	61.77W	5	2.6W		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.1km az=2.7.
TRN Event type fe. Felt St. Joseph,Trinidad MMI II.

(502) Arkansas

ISC	**II**	**17 10 49 47.5–1.1**	**35.26N–.03**	**92.36W–.02**	**7–8**	**3.5b**	**407**	**0-66**
IDC	II	17 10 49 47.4–.86	35.40N	92.40W	0	4.1L,3.9		**¶16030164**
NEIC	II	17 10 49 48.0	35.28N	92.36W	6	4.1b,3.8W		

ISC Event type fe.
IDC Error ellipse: s-maj=17.1km s-min=9.1km az=176.0.
NEIC Event type fe. Felt [IV] at Quitman; [III] at Greenbrier and Vilonia; [II] at Conway, Fayetteville and Mountain View. Felt widely in central and northern Arkansas. Also felt in parts of southern Missouri. After CERI. Moment Tensor Solution. s13 Moment tensor: Scale 10^{14} Nm; M_{rr}-0.02 $M_{\theta\theta}$4.52 $M_{\phi\phi}$-4.51 $M_{r\theta}$-2.11 $M_{\theta\phi}$3.83 $M_{\phi r}$-0.98 Best double couple: NP1: ϕ_s296.00000°,δ75.00000°,λ12.00000°. NP2:ϕ_s203.00000°,δ78.00000°,λ165.00000°. Principal axes: T 6.7200,Plg19.0000°,Azm160.0000°; N -0.8100,Plg71.0000°,Azm346.0000°; P -5.9200,Plg2.0000°,Azm250.0000° $M_0$6.40000×10^{14}

(134) Off coast of central Chile

ISC	**II**	**17 12 04 42.7–1.6**	**33.94S–.04**	**72.40W–.06**	**16–9**	**4.4b**	**46**	**1-166**
NEIC	II	17 12 04 38.0	33.73S	72.62W	15	4.4L		**¶16398406**
GUC	II	17 12 04 39.2–.46	33.74S	72.62W	18–3	4.4L		
IDC	II	17 12 04 40.1–.71	33.99S	72.35W	0	4.2,4.0		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Cobquecura, Quirihue and Talca. After GUC.
GUC Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=30.1km s-min=18.7km az=84.0.

(226) Near west coast of eastern Honshu

JMA	**II**	**17 13 27 17.8**	**38.21N**	**138.16E**	**8–1**	**3.7**		
NIED	II	17 13 27 00	38.20N	138.20E	5	3.4W		**¶600530002**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ94.00000°. NP2:ϕ_s222.00000°,δ49.00000°,λ87.00000°. $M_0$1.24000×10^{14}

(502) Arkansas

ISC	**II**	**17 14 58 13.4–1.3**	**35.26N–.03**	**92.35W–.04**	**2–11**		**42**	**0-5**
NEIC	II	17 14 58 14.0	35.27N	92.37W	6	2.8		**¶16362987**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway. After CERI.

(460) Wyoming

ISC	**II**	**17 18 04 33.1–1.1**	**44.08N–.09**	**105.35W–.06**	**0**		**13**	**1-9**
ISCJB	II	17 18 04 32.3–.73	44.15N–.07	105.40W–.08	0			**¶17192438**
IDC	II	17 18 04 33.0–1.8	44.06N	105.55W	0	3.4,3.2		
NEIC	II	17 18 04 33.8–.74	44.11N	105.33W	0	2.7L,3.2		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=11.0km s-min=8.0km az=158.4.
IDC Error ellipse: s-maj=58.5km s-min=8.6km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=13.9km s-min=8.6km az=140.0. 23 km [14 miles] SE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC	**II**	**17 18 18 42.0–1.1**	**43.96N–.08**	**105.21W–.05**	**0**		**12**	**1-10**
IDC	II	17 18 18 40.1–2.2	43.71N	105.28W	0	3.4,3.2		**¶17192439**
NEIC	II	17 18 18 44.1–1.2	43.34N	104.59W	0	3.0L,3.2		

ISC Event type sm.
IDC Error ellipse: s-maj=58.9km s-min=8.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=20.4km s-min=9.7km az=115.0. 65 km [40 miles] SSW of Newcastle. Suspected Mining explosion.

(502) Arkansas

ISC	**II**	**17 18 19 08.3–1.3**	**35.26N–.03**	**92.34W–.04**	**3–11**		**39**	**0-5**
ISCJB	II	17 18 19 07.9–.88	35.26N–.02	92.33W–.03	5–6			**¶16852145**
NEIC	II	17 18 19 09.0	35.26N	92.36W	5	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=12.6.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(162) South Island

WEL	**II**	**17 18 43 29.6–.09**	**43.60S**	**172.53E**	**9–0**	**3.8L**		
NEIC	II	17 18 43 29.6	43.60S	172.52E	8	3.8L		**¶16031873**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.

(159) North Island

ISC	**II**	**17 20 36 59.4–.84**	**38.32S–.04**	**176.72E–.04**	**94–5**		**223**	**0-151**
IDC	II	17 20 36 56.9–1.5	38.76S	176.98E	79–7	3.6,3.5		**¶16031874**
ISCJB	II	17 20 36 58.9–.43	38.36S–.03	176.73E–.04	110–4	3.6b,3.5		
NEIC	II	17 20 37 01.5	38.28S	176.72E	81	4.4L,3.5		
WEL	II	17 20 37 01.4–.18	38.27S	176.72E	83–1	4.4L,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=16.1km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.5km az=16.3.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=0.0. Felt between Rotorua and Bay of Plenty, maximum reported intensity MM 4.

(159) North Island

WEL	**II**	**17 21 14 52.5–.13**	**38.06S**	**176.71E**	**2–0**	**2.5L**		
								¶16031875

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.

(224) Hokkaido region

ISC II 17 21 20 51.4–.84 42.94N–.05 144.10E–.04 101–6 3.5b 38 0-70
IDC II 17 21 20 35.9–1.4 43.25N 145.27E 0 3.7,3.6 **¶17192445**
ISCJB II 17 21 20 50.5–.47 42.94N–.04 144.08E–.04 106–3 3.5b,3.6
JMA II 17 21 20 51.8–.10 42.98N 144.10E 100–1 3.2,3.6
SKHL II 17 21 20 53.6–.60 42.64N 144.45E 35–1 4.6b,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=27.2km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.8km az=153.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(259) Mindanao

ISC II 17 21 42 59.3–.99 9.55N–.03 125.29E–.04 25–8 3.6b 32 0-95
ISCJB II 17 21 42 60.0–.51 9.59N–.03 125.29E–.04 29–5 3.6b **¶17192446**
MAN II 17 21 42 59 9.55N 125.30E 20 4.8b,3.6L
IDC II 17 21 43 11.6–1.9 9.05N 124.88E 143–24 3.7,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.4km az=155.2.
MAN Event type fe. INTENSITY II - SURIGAO CITY.
IDC Error ellipse: s-maj=48.4km s-min=23.9km az=53.0.

(502) Arkansas

ISC II 17 22 06 44.1–1.2 35.26N–.02 92.37W–.02 3–10 66 0-7
NEIC II 17 22 06 45.2 35.27N 92.37W 6 3.1,2.7 **¶16032014**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Batesville, Conway, Mountain Home, Norfork and Yellville. After CERI.

(249) Luzon

ISC II 17 22 20 50.9–.79 16.44N–.03 120.43E–.05 33–4 4.5b,4.2s 169 0-98
MAN II 17 22 20 46 16.45N 120.48E 14 5.5b,5.0s **¶16056947**
IDC II 17 22 20 49.6–4.9 16.43N 120.77E 40–45 4.1s,4.1
MOS II 17 22 20 49.4–1.6 16.28N 120.63E 47 4.8b,4.1
ISCJB II 17 22 20 49.9–.42 16.49N–.02 120.41E–.03 34–4 4.4b,4.2s
NEIC II 17 22 20 54.5–.67 16.54N 120.45E 68–6 4.6b,4.2s
BJI II 17 22 20 57.1 16.87N 120.17E 63 4.7b,4.5s
BKK II 17 22 21 40.8–2.7 19N–14 117E–19 221–20 5.5b,5.0
ISC Event type fe.
MAN Event type fe. INTENSITY IV - BAGUIO CITY; INTENSITY III - SAN FERNANDO LA UNION; INTENSITY II - BURGOS ILOCOS SUR.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV PIVS] at Baguio, [III PIVS] at San Fernando and [II PIVS] at Burgos. Also felt at Aringay, La Trinidad, Naguilian, San Juan, Sison and Tarlac.

(228) Near east coast of eastern Honshu

ISC II 17 23 26 33.6–.38 36.72N–.04 141.23E–.04 32 4.5b,3.8s 204 1-117
NIED II 17 23 26 00 36.40N 141.50E 26 4.3W,3.8s **¶16031175**
ISCJB II 17 23 26 30.8–.27 36.55N–.03 141.35E–.04 32 4.5b,3.8s
JMA II 17 23 26 30.1–.10 36.38N 141.42E 51–3 4.3,3.8s
BJI II 17 23 26 31.4 36.45N 141.42E 47 4.9b,4.5b
IDC II 17 23 26 32.4–1.7 36.29N 141.40E 44–16 4.3,4.1
MOS II 17 23 26 32.8–.89 36.86N 141.25E 36 4.7b,4.1
NEIC II 17 23 26 35.1–.57 36.74N 141.17E 44–5 4.6b,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ27.00000°,λ27.00000°. NP2:ϕ_s56.00000°,δ78.00000°,λ115.00000°. $M_0$3.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.5km az=44.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=10.7km az=98.0.
MOS Error ellipse: s-maj=8.6km s-min=5.1km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=3.9km az=146.0. Felt at Kanagawa and Saitama. Recorded [2 JMA] in Ibaraki and [1 JMA] in Chiba, Fukushima and Tochigi.

(502) Arkansas

ISC II 18 01 24 28.2–1.3 35.26N–.02 92.32W–.03 3–11 62 0-5
NEIC II 18 01 24 29.0 35.25N 92.34W 6 2.5 **¶601793211**
ISC Event type fe.
NEIC Event type fe. Felt at Greenbrier. After CERI.

(226) Near west coast of eastern Honshu

JMA II 18 04 04 38.2 37.30N 138.95E 13–1 2.7 ¶600530210
JMA Event type fe.

(190) New Ireland region

ISC II 18 04 23 17.8–.32 4.66S–.03 153.18E–.04 53–2 5.3b,4.8s 789 1-158
IDC II 18 04 23 15.4–1.6 4.63S 153.08E 30–11 5.1,5.0b **¶16031274**
ISCJB II 18 04 23 15.4–.69 4.62S–.02 153.20E–.03 45–6 5.3b,4.8s
BJI II 18 04 23 16.0 4.52S 153.38E 57 5.5b,5.2b
MOS II 18 04 23 16.3–1.2 4.50S 153.05E 43 5.6b,5.1s
NEIC II 18 04 23 18.6–.51 4.61S 153.16E 58–4 5.5W,5.3b
GCMT II 18 04 23 18.6–.10 4.89S 153.04E 53–0 5.5W,5.3b
DJA II 18 04 23 20.4–.60 5S–3.0 153E–5.0 66–6 5.8,5.7b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Namatanai. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17} Nm; M_{rr}1.81 $M_{\theta\theta}$-1.45 $M_{\phi\phi}$-0.36 $M_{r\theta}$1.28 $M_{\theta\phi}$-0.20 $M_{\phi r}$0.31 Best double couple: NP1: ϕ_s261.00000°,δ26.00000°,λ93.00000°. NP2:ϕ_s78.00000°,δ64.00000°,λ89.00000°. Principal axes: T 2.2700,Plg71.0000°,Azm345.0000°; N -0.3200,Plg1.0000°,Azm78.0000° ; P -1.9500,Plg19.0000°,Azm169.0000° $M_0$2.10000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s121,c243; s111,c226;Duration: 1ϑ4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.87±.03 $M_{\theta\theta}$-2.03±.02; $M_{\phi\phi}$0.15±.02; $M_{r\theta}$0.94±.02; $M_{\theta\phi}$0.09±.02; $M_{\phi r}$0.11±.02; Best double couple: NP1:ϕ_s88.00000°,δ58.00000°,λ85.00000°. NP2:ϕ_s277.00000° ,δ32.00000°,λ98.00000°. Principal axes: T 2.0940,Plg76.0000°,Azm343.0000° ; N 0.1510,Plg4.0000°,Azm91.0000°; P -2.2470,Plg13.0000°,Azm182.0000° $M_0$2.17100×10^{17}

(502) Arkansas

ISC II 18 04 24 18.9–.76 35.26N–.02 92.37W–.02 10 106 0-6
ISCJB II 18 04 24 18.1–.29 35.24N–.02 92.33W–.02 10 **¶601793223**
NEIC II 18 04 24 19.0 35.26N 92.36W 7 2.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.5km az=8.9.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. After CERI.

(163) Cook Strait

WEL II 18 04 51 53.8–.06 41.38S 174.64E 22–0 4.0L
NEIC II 18 04 51 53.7 41.38S 174.64E 23 3.9L **¶16031876**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0. Felt from Wairarapa to Marlborough, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Wellington area. After WEL.

(502) Arkansas

ISC II 18 04 59 49.1–.92 35.28N–.02 92.37W–.01 7–6 3.2b 353 1-44
IDC II 18 04 59 49.1–.94 35.39N 92.42W 0 4.2L,3.7 **¶16031275**
NEIC II 18 04 59 50.0 35.26N 92.37W 5 4.0,3.9W
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=9.4km az=177.0.
NEIC Event type fe. Felt [IV] at Greenbrier and Vilonia; [III] at Conway; [II] at Batesville, Benton, Leslie and Quitman. Widely felt in central, northcentral and northwestern Arkansas. Also felt at West Plains, Missouri. After CERI. Moment Tensor Solution. $M_0$8.30000×10^{14}

(502) Arkansas

ISC II 18 05 02 02.4–1.1 35.27N–.03 92.38W–.03 7–8 38 0-3
ISCJB II 18 05 02 02.2–.69 35.25N–.02 92.38W–.02 4–4 **¶601793224**
NEIC II 18 05 02 02.7 35.26N 92.36W 6 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.2km az=163.8.
NEIC Event type fe. Felt [III] at Conway and Greenbrier. After CERI.

(502) Arkansas

ISC II 18 08 13 34.1–1.1 35.27N–.03 92.38W–.02 5–7 4.1s,4.0b 175 0-112
IDC II 18 08 13 34.0–.61 35.34N 92.38W 0 4.3L,4.0 **¶16158802**
BJI II 18 08 13 34.5 35.19N 93.13W 11 4.8s,4.0
NEIC II 18 08 13 35.0 35.27N 92.38W 6 4.4,4.2b
ISC Event type fe.
IDC Error ellipse: s-maj=11.4km s-min=7.7km az=180.0.
NEIC Event type fe. Felt [IV] at Damascus and Greenbrier; [III] at Conway and Vilonia; [II] at Batesville, Benton, Cotter, Mabelvale, Mountain View and Quitman. Felt in much of central and northern Arkansas. Also felt in parts of southern Missouri and at Stilwell, Oklahoma. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ74.00000° ,λ19.00000°. NP2:ϕ_s198.00000°,δ72.00000°,λ163.00000°. Principal axes: T 1.6800,Plg25.0000°,Azm156.0000°; N -0.3800,Plg65.0000°,Azm332.0000° ; P -1.3000,Plg1.0000°,Azm65.0000°

(259) Mindanao

MAN II 18 10 28 50 9.60N 125.39E 27 4.4b,3.2L ¶601668572
MAN Event type fe. INTENSITY II - LORETO DINAGAT ISLAND; GENERAL LUNA SIARGAO ISLAND.

(502) Arkansas

ISC II 18 11 53 33.9–.90 35.25N–.02 92.36W–.02 7–6 68 0-5
ISCJB II 18 11 53 33.8–.48 35.24N–.02 92.38W–.02 3–3 **¶601793270**
NEIC II 18 11 53 34.3 35.26N 92.35W 7 2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=163.4.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway. After CERI.

(502) Arkansas

ISC II 18 12 18 23.9–.69 35.28N–.02 92.38W–.02 10 121 0-7
ISCJB II 18 12 18 24.1–.21 35.25N–.02 92.36W–.02 10 **¶601793272**
NEIC II 18 12 18 24.4 35.27N 92.37W 6 3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=156.2.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Batesville, Center Ridge, Enola, Marcella, Mountain View and Searcy. After CERI.

(256) Leyte

ISC II 18 12 39 04.5–1.4 11.63N–.04 124.30E–.05 9–9 4.3b,3.4s 68 1-94
IDC II 18 12 39 03.1–.68 11.64N 124.37E 0 4.1,4.0 **¶16398480**
MAN II 18 12 39 03 11.59N 124.22E 1 4.8b,3.7L
NEIC II 18 12 39 11.7–2.1 11.68N 124.54E 69–20 4.5b,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=31.9km s-min=14.9km az=68.0.
MAN Event type fe. INTENSITY III - NAVAL BILIRAN PROVINCE; LEYTE LEYTE; INTENSITY II - SAN ISIDRO LEYTE.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=7.2km az=67.0. Felt [III PIVS] at Leyte and Naval and [II PIVS] at San Isidro.

(502) Arkansas

ISC II 18 13 06 49.7–1.1 35.26N–.02 92.35W–.04 10–10 40 0-3
NEIC II 18 13 06 50.0 35.26N 92.36W 7 2.5 **¶16362990**
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Greenbrier and [II] at Conway. Also felt at Heber Springs. After CERI.

(502) Arkansas

ISC II 18 16 04 22.2–1.3 35.24N–.03 92.34W–.04 5–11 35 0-6
ISCJB II 18 16 04 21.9–.80 35.22N–.02 92.31W–.05 7–6 **¶16362992**
NEIC II 18 16 04 23.0 35.24N 92.36W 7 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.1km az=2.5.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway and Vilonia. After CERI.

(134) Off coast of central Chile

ISC II 18 17 01 01.8–.72 33.99S–.03 72.12W–.05 31–4 5.2b,4.9s 461 0-179
IDC II 18 17 00 57.0–.44 33.97S 72.09W 0 5.0,4.9b **¶16168873**
NEIC II 18 17 00 58.7–.18 33.93S 72.11W 10 5.2L,5.2b
GCMT II 18 17 00 58.7–.20 33.99S 72.37W 27–0 5.3W,5.2b
ISCJB II 18 17 00 59.7–.86 34.02S–.03 72.27W–.04 24–6 5.1b,4.8s
GUC II 18 17 00 59.3–.44 33.99S 72.15W 13–6 5.2L,4.8s
MOS II 18 17 01 02.7–1.1 33.95S 71.88W 39 5.4b,4.8s
BJI II 18 17 01 02.3 34.55S 71.77W 39 5.4s,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=21.5km s-min=13.4km az=80.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=4.3km az=77.0. Felt [IV] at Navidad; [III] at Litueche, Parral, Rio Claro, San Antonio and Santo Domingo; [II] at Constitucion, El Quisco, Marchihue, Paredones, Pichilemu, Puchuncavi, Rancagua, San Fernando, Santiago, Talca, Valparaiso and Vina del Mar. Also felt at Rengo and San Bernardo.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c84; s78,c115; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.58±.02 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$-0.60±.02; $M_{r\theta}$0.05±.02; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$-0.74±.04; Best double couple: NP1:ϕ_s178.00000°,δ71.00000° ,λ85.00000°. NP2:ϕ_s14.00000°,δ20.00000°,λ105.00000°. Principal axes: T 0.9400,Plg64.0000°,Azm79.0000°; N 0.0220,Plg5.0000°,Azm180.0000° ; P -0.9620,Plg26.0000°,Azm272.0000° $M_0$0.95100×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.8km az=0.3.
GUC Error ellipse: s-maj=1.3km s-min=6.1km az=-1.0.
MOS Error ellipse: s-maj=17.1km s-min=9.4km az=89.4.

(45) California-Baja California border region

ISC II 18 17 47 36.3–.72 32.05N–.02 115.10W–.02 7–4 4.9b,4.8s 632 0-146
BJI II 18 17 47 33.7 32.10N 115.10W 8 5.7b,5.2s **¶16032043**
ISCJB II 18 17 47 35.3–.15 32.07N–.02 115.08W–.01 10 4.8b,4.7s
NEIC II 18 17 47 36.7 32.06N 115.10W 8 5.2L,5.1
ECX II 18 17 47 36.6–.59 32.06N 115.09W 8 5.2L,5.0
GCMT II 18 17 47 36.7–.20 32.08N 115.06W 12 5.2W,5.0
IDC II 18 17 47 37.5–.66 32.26N 114.78W 0 4.7,4.6
MEX II 18 17 47 37.9–1.2 32.14N 115.01W 20–26 5.1,4.6
MOS II 18 17 47 38.0–1.8 32.33N 114.93W 17 5.2b,4.9s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=19.3.
NEIC Event type fe. Felt [II] at Ensenada, Mexicali, San Felipe and Tijuana. Also felt at Algodones and Rosarito. Felt at San Luis Rio Colorado, Sonora. Felt [III] at Somerton, Wellton and Yuma, Arizona. Also felt [III] at Calexico and Winterhaven and [II] in much of Imperial, Orange and San Diego Counties, California. Felt as far as Phoenix, Arizona and the Los Angeles area, California. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c83; s119,c188; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.46±.12 $M_{\theta\theta}$-5.73±.11; $M_{\phi\phi}$6.19±.11; $M_{r\theta}$-1.35±.32; $M_{\theta\phi}$-1.65±.12; $M_{\phi r}$-2.27±.31; Best double couple: NP1:ϕ_s37.00000°,δ90.00000° ,λ-23.00000°. NP2:ϕ_s127.00000°,δ67.00000°,λ-180.00000°. Principal axes: T 7.0030,Plg16.0000°,Azm84.0000°; N -0.5740,Plg67.0000°,Azm216.0000° ; P -6.4330,Plg16.0000°,Azm350.0000° $M_0$6.71800×10^{16}
IDC Error ellipse: s-maj=17.3km s-min=8.3km az=39.0.
MEX Error ellipse: s-maj=19.2km s-min=28.0km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.9km az=98.9.

(222) East of Kuril Islands

ISC II 18 20 20 30.9–.34 44.75N–.03 150.17E–.03 46–2 5.3b,4.4s 1594 2-151
NIED II 18 20 20 00 44.80N 150.10E 56 5.1W,4.4s **¶16032241**
ISCJB II 18 20 20 27.7–.60 44.71N–.02 150.28E–.02 33–4 5.3b,4.4s
SKHL II 18 20 20 29.7–.70 44.70N 150.33E 60–5 5.6b,5.3
MOS II 18 20 20 29.3–1.0 44.84N 150.14E 41 5.7b,4.4s
GCMT II 18 20 20 30.6–.20 44.84N 150.20E 39–0 5.1W,4.4s
BJI II 18 20 20 30.5 44.83N 149.94E 46 5.1b,5.1b
NEIC II 18 20 20 30.6–.42 44.82N 150.09E 40–3 5.4b,5.1b
JMA II 18 20 20 31.1–.40 44.79N 150.11E 30 5.0,5.1b
IDC II 18 20 20 33.7–.48 44.90N 150.15E 66–4 5.0,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ16.00000°. NP2:ϕ_s64.00000°,δ79.00000°,λ132.00000°. $M_0$5.61000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=1.7km az=166.2.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=102.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s86,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.97±.20 $M_{\theta\theta}$0.44±.13; $M_{\phi\phi}$-3.41±.13; $M_{r\theta}$1.97±.12; $M_{\theta\phi}$-3.11±.08; $M_{\phi r}$0.61±.11; Best double couple: NP1:ϕ_s58.00000°,δ63.00000° ,λ128.00000°. NP2:ϕ_s177.00000°,δ45.00000°,λ39.00000°. Principal axes: T 4.2050,Plg54.0000°,Azm16.0000°; N 1.2150,Plg34.0000°,Azm218.0000° ; P -5.4180,Plg10.0000°,Azm121.0000° $M_0$4.81100×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=158.0. Recorded [1 JMA] in eastern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=9.7km az=142.0.

(163) Cook Strait

WEL II 18 21 43 09.2–.06 41.01S 174.78E 35–1 3.8L
NEIC II 18 21 43 09.2 41.01S 174.78E 35 3.8L **¶16056970**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Wellington region, maximum reported intensity MM 4.
NEIC Event type fe. Felt along the Kapiti Coast. After WEL.

(135) Near coast of central Chile

ISC	**II**	**18 22 29 37.9–1.6**	**34.57S–.06**	**72.24W–.08**	**13–8**	**4.3b**	**36**	**0-157**	
IDC	II	18 22 29 36.2–1.0	34.51S	72.07W	0	4.1b,4.1			**¶16342613**
ISCJB	II	18 22 29 37.8–1.4	34.58S–.05	72.28W–.08	19–10	4.0b,3.3s			
GUC	II	18 22 29 38.4–.43	34.54S	72.26W	12–1	4.3L,3.3s			
NEIC	II	18 22 29 38.0	34.54S	72.26W	12	4.4b,4.3L			

ISC Event type fe.
IDC Error ellipse: s-maj=41.4km s-min=27.6km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.0km az=25.7.
GUC Error ellipse: s-maj=1.4km s-min=3.1km az=-1.0.
NEIC Event type fe. Felt [V] at Pichilemu, [IV] at Navidad and Paredones, [III] at San Pedro and [II] at Melipilla. After GUC.

(706) Northern Sumatera

ISC	**II**	**18 23 12 05.4–.29**	**1.97N–.03**	**97.91E–.03**	**50–2**	**5.3b,4.5s**	**906**	**1-160**	
BJI	II	18 23 12 01.9	1.84N	98.06E	46	5.2b,5.1b			**¶16032243**
MOS	II	18 23 12 03.9–.85	1.98N	97.96E	51	5.7b,4.5s			
IDC	II	18 23 12 04.9–.60	1.93N	97.96E	46–5	5.1,4.9			
ISCJB	II	18 23 12 05.5–.29	1.95N–.02	97.89E–.02	64–2	5.3b,4.9			
GCMT	II	18 23 12 05.6–.20	1.86N	97.77E	44–0	5.2W,4.9			
NEIC	II	18 23 12 05.6–.38	1.90N	97.89E	53–3	5.3b,4.9			
DJA	II	18 23 12 06.8–.20	2N–2.0	98E–3.0	51–2	5.5b,5.5			
KLM	II	18 23 12 06.5	1.96N	97.79E	44	5.8s,5.4b			

ISC Event type fe.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=110.7.
IDC Error ellipse: s-maj=10.4km s-min=8.1km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=138.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c131; s92,c163; Duration: 1$\pm$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.67$\pm$.02 $M_{\theta\theta}$-0.26$\pm$.01; $M_{\phi\phi}$-0.40$\pm$.01; $M_{r\theta}$0.44$\pm$.01; $M_{\theta\phi}$0.36$\pm$.01; $M_{\phi r}$-0.26$\pm$.01; Best double couple: NP1:ϕ_s129.00000°,δ64.00000°,λ79.00000°. NP2:ϕ_s333.00000°,δ28.00000°,λ111.00000°. Principal axes:
T 0.8600,Plg69.0000°,Azm16.0000°; N 0.0020,Plg10.0000°,Azm134.0000°
; P -0.8610,Plg18.0000°,Azm227.0000° $M_0$0.86000$\times10^{17}$
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=222.0. Felt [III] on Nias.

(505) Mississippi

ISC	**II**	**18 23 15 32.9–.87**	**30.11N–.06**	**87.89W–.04**	**10**		**51**	**3-141**	
ISCJB	II	18 23 15 31.7–.57	30.21N–.04	87.91W–.03	10	4.0b			**¶16342614**
IDC	II	18 23 15 31.6–3.5	30.18N	88.11W	0	4.2,4.0			
NEIC	II	18 23 15 32.0–.85	30.08N	88.00W	5	3.5,4.0			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.0km az=11.3.
IDC Error ellipse: s-maj=66.2km s-min=12.6km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=12.9km s-min=5.5km az=181.0. Felt at Gulfport, Moss Point, Ocean Springs and Pearl. Felt [IV] on Dauphin Island; [III] at Bon Secour, Daphne and Gulf Shores; [II] at Foley and Mobile, Alabama. Also felt at Fairhope, Loxley, Magnolia Springs, Orange Beach and Prattville. Felt [II] at Pensacola, Florida. Also felt at Blountstown, Defuniak Springs, McDavid, Navarre, Niceville, Panama City, Port Saint Joe, Shalimar and Tallahassee.

(127) Chile-Argentina border region

ISC	**II**	**18 23 54 06.6–1.0**	**34.93S–.03**	**70.41W–.04**	**25–7**	**4.8b,4.1s**	**114**	**1-175**	
IDC	II	18 23 54 02.6–.64	34.97S	70.16W	0	4.5,4.4			**¶16032634**
GUC	II	18 23 54 03.2–.53	34.91S	70.39W	18–3	4.8L,4.4			
NEIC	II	18 23 54 03.0	34.91S	70.39W	18	4.8L,4.8b			
SJA	II	18 23 54 04.0–1.2	34.68S	71.42W	199–11	4.8L,4.8b			
ISCJB	II	18 23 54 04.7–.89	34.99S–.03	70.36W–.04	19–6	4.8b,4.1s			
BJI	II	18 23 54 09.8	34.90S	70.10W	43	5.4b,5.2s			

ISC Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=17.5km az=91.0.
GUC Error ellipse: s-maj=1.5km s-min=2.8km az=-1.0.
NEIC Event type fe. Felt [III] at Talca and [II] at Curico, Rancagua, Romeral, San Fernando and Tiltil. Also felt [III] at Malargue and San Rafael, Argentina. After GUC.
SJA Error ellipse: s-maj=6.1km s-min=11.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.9km az=143.1.

(160) Off east coast of North Island

ISC	**II**	**19 00 18 54.2–1.3**	**38.29S–.03**	**178.43E–.05**	**14–7**	**4.7b**	**175**	**0-155**	
ISCJB	II	19 00 18 52.3–.73	38.26S–.03	178.57E–.07	10	4.6b			**¶16032954**
IDC	II	19 00 18 57.0–8.3	38.42S	178.29E	29–54	4.6,4.6			
NEIC	II	19 00 18 57.4	38.23S	178.31E	20	4.5L,4.6			
WEL	II	19 00 18 57.5–.13	38.21S	178.27E	17–1	4.5L,4.4W			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.6km az=170.0.
IDC Error ellipse: s-maj=39.3km s-min=25.2km az=37.0.
NEIC Event type fe. Felt widely in Gisborne. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.

(502) Arkansas

ISC	**II**	**19 04 51 35.9–.92**	**35.28N–.02**	**92.38W–.02**	**5–7**		**73**	**0-5**	
NEIC	II	19 04 51 36.0	35.27N	92.36W	6	2.5			**¶16327674**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. After CERI.

(135) Near coast of central Chile

ISC	**II**	**19 06 26 32.9–1.0**	**34.02S–.03**	**72.17W–.05**	**17–5**	**5.2b,4.8s**	**749**	**0-179**	
IDC	II	19 06 26 29.8–.49	34.01S	72.19W	0	4.8L,4.7			**¶16056977**
GCMT	II	19 06 26 31.0–.20	34.05S	72.33W	21–0	5.2W,4.7			
NEIC	II	19 06 26 31.0	34.03S	72.23W	16	5.2L,5.2b			
GUC	II	19 06 26 31.5–.52	34.03S	72.23W	16–6	5.2L,5.2b			
ISCJB	II	19 06 26 31.6–1.1	34.02S–.03	72.30W–.04	18–7	5.0b,4.7s			
BJI	II	19 06 26 32.0	34.64S	72.45W	18	5.4s,5.3			
MOS	II	19 06 26 33.4–1.2	34.01S	72.06W	25	5.3b,5.3			

ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=14.3km az=86.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c94; s84,c125; Duration: 1$\pm$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.55$\pm$.02 $M_{\theta\theta}$0.06$\pm$.01; $M_{\phi\phi}$-0.61$\pm$.02; $M_{r\theta}$0.06$\pm$.02; $M_{\theta\phi}$0.03$\pm$.01; $M_{\phi r}$-0.67$\pm$.04; Best double couple: NP1:ϕ_s176.00000°,δ69.00000°,λ89.00000°. NP2:ϕ_s360.00000°,δ21.00000°,λ94.00000°. Principal axes:
T 0.8570,Plg66.0000°,Azm83.0000°; N 0.0580,Plg1.0000°,Azm176.0000°
; P -0.9160,Plg24.0000°,Azm267.0000° $M_0$0.88700$\times10^{17}$
NEIC Event type fe. Felt [III] at Navidad, Paredones, Pichilemu, San Antonio, Santa Cruz and Talca; [II] at Curico, Iloca, Linares, Parral, Quillota, Rancagua, San Fernando, Santiago and Vina del Mar. Also felt at Graneros, Melipilla, Rengo and Valparaiso. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=5.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.8km az=8.1.
MOS Error ellipse: s-maj=16.9km s-min=8.4km az=98.8.

(115) Near coast of Peru

ISC	**II**	**19 07 40 22.1–.86**	**12.01S–.09**	**77.50W–.10**	**51**	**3.8b**	**20**	**1-161**	
IDC	II	19 07 40 12.7–1.0	12.46S	77.81W	0	4.2L,4.1			**¶16032638**
ISCJB	II	19 07 40 20.0–.72	12.07S–.07	77.56W–.08	51	3.9b,4.1			
NEIC	II	19 07 40 20.1–.75	12.06S	77.63W	35	4.3b,4.1L			

ISC Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=22.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=7.1km az=140.0.
NEIC Event type fe. Error ellipse: s-maj=18.2km s-min=9.4km az=52.0. Felt [II] at Ancon, Callao and Lima. Also felt at Barranca, Chosica and Huaura.

(135) Near coast of central Chile

ISC	**II**	**19 09 54 51.6–2.1**	**33.98S–.04**	**72.22W–.09**	**8–12**		**25**	**0-142**	
ISCJB	II	19 09 54 52.5–1.3	34.06S–.06	72.34W–.08	13–10	3.7b			**¶16166735**
GUC	II	19 09 54 53.8–.49	34.05S	72.08W	10–6	4.0L			
NEIC	II	19 09 54 53.0	34.04S	72.08W	10	4.0L,3.7b			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.8km az=145.3.
GUC Error ellipse: s-maj=1.5km s-min=7.0km az=-1.0.
NEIC Event type fe. Felt [III] at Talca and [II] at Pichilemu, Rancagua and San Fernando. After GUC.

(227) Eastern Honshu

ISC	**II**	**19 10 27 06.4–.94**	**36.97N–.05**	**140.84E–.07**	**96–6**	**3.5b**	**35**	**0-57**	
NIED	II	19 10 27 00	37.00N	140.80E	107	3.6W			**¶17192528**
ISCJB	II	19 10 27 05.2–.61	36.97N–.04	140.87E–.07	100–3	3.4b			
JMA	II	19 10 27 07.1–.10	37.00N	140.79E	93–1	3.6			
IDC	II	19 10 27 08.2–2.4	36.82N	140.54E	106–20	3.6,3.3			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ29.00000°,λ-51.00000°. NP2:ϕ_s245.00000°,δ68.00000°,λ-109.00000°. $M_0$3.05000$\times10^{14}$
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.2km s-min=11.3km az=64.0.

(134) Off coast of central Chile

ISC	**II**	**19 11 57 53.6–1.7**	**33.40S–.05**	**72.40W–.07**	**0–12**		**40**	**1-157**	
IDC	II	19 11 57 55.9–1.4	33.49S	71.62W	0	3.9,3.9L			**¶16398545**
GUC	II	19 11 57 56.2–.37	33.52S	72.35W	34–2	3.9L,3.9L			
NEIC	II	19 11 57 56.0	33.52S	72.35W	34	3.9L,3.9L			

ISC Event type fe.
IDC Error ellipse: s-maj=49.0km s-min=30.2km az=87.0.
GUC Error ellipse: s-maj=1.5km s-min=2.2km az=-1.0.
NEIC Event type fe. Felt [II] at Concon, Quilpue, Valparaiso, Villa Alemana and Vina del Mar. After GUC.

(233) Near south coast of western Honshu

ISC	**II**	**19 13 04 56.4–.98**	**33.47N–.05**	**135.45E–.04**	**29–6**	**3.8b**	**33**	**0-70**	
NIED	II	19 13 04 00	33.50N	135.50E	20	3.9W			**¶16033678**
IDC	II	19 13 04 52.2–.78	33.39N	135.47E	0	3.8,3.8b			
ISCJB	II	19 13 04 55.4–.61	33.43N–.05	135.49E–.04	37–6	3.7b,3.8b			
JMA	II	19 13 04 56.6	33.49N	135.47E	32	4.0,3.8b			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ42.00000°,λ-59.00000°. NP2:ϕ_s318.00000°,δ55.00000°,λ-115.00000°. $M_0$7.14000$\times10^{14}$
IDC Error ellipse: s-maj=17.3km s-min=15.8km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.6km az=11.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s168.00000°,δ54.00000°,λ-76.00000°. NP2:ϕ_s325.00000°,δ38.00000°,λ-109.00000°. Principal axes: T Plg8.0000°,Azm248.0000°; N Plg12.0000°,Azm340.0000°; P Plg76.0000° ,Azm125.0000°

(211) Southeast of Honshu

ISC	**II**	**19 15 32 38.5–.60**	**33.97N–.04**	**139.81E–.05**	**123–5**	**4.5b**	**199**	**0-149**	
NIED	II	19 15 32 00	33.90N	139.80E	125	4.4W			**¶16032960**
BJI	II	19 15 32 35.8	33.90N	139.70E	104	5.0b,4.6b			
ISCJB	II	19 15 32 37.7–.28	33.94N–.03	139.74E–.04	131–1	4.4b,4.6b			
IDC	II	19 15 32 38.7–.79	33.89N	139.72E	127–7	4.5,4.2			
JMA	II	19 15 32 38.9–.10	33.96N	139.87E	117–1	4.3,4.2			
NEIC	II	19 15 32 38.9–.45	33.90N	139.60E	125–3	4.6b,4.2			
MOS	II	19 15 32 42.0–.96	34.37N	139.64E	150	4.7b,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ45.00000°,λ166.00000°. NP2:ϕ_s192.00000°,δ80.00000°,λ46.00000°. $M_0$4.77000$\times10^{15}$
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.7km az=144.0.
IDC Error ellipse: s-maj=11.5km s-min=10.0km az=59.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.8km az=182.0. Recorded [1 JMA] on Mikura-jima.
MOS Error ellipse: s-maj=8.9km s-min=5.0km az=110.8.

(259) Mindanao

MAN	**II**	**19 16 00 11**	**9.55N**	**125.21E**	**7**	**4.5b,3.4L**			**¶601668582**

MAN Event type fe. INTENSITY II - MAINIT SURIGAO DEL NORTE.

(224) Hokkaido region

ISC	**II**	**19 19 34 01.4–.83**	**41.59N–.04**	**141.94E–.04**	**65–7**	**3.7b**	**59**	**1-79**	
ISCJB	II	19 19 34 00.6–.34	41.59N–.03	141.93E–.05	71–3	3.6b			**¶17192547**
NIED	II	19 19 34 00	41.60N	141.90E	62	3.8W			
JMA	II	19 19 34 01.2–.10	41.58N	141.92E	65–2	3.6			
IDC	II	19 19 34 02.2–1.7	41.61N	141.93E	75–14	3.7,3.6			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=33.8.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ22.00000°,λ102.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ85.00000°. $M_0$6.22000$\times10^{14}$
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s18.00000°,δ87.00000°,λ82.00000°. NP2: ϕ_s269.00000°,δ8.00000°,λ161.00000°. Principal axes: T Plg47.0000°,Azm280.0000°
; N Plg8.0000°,Azm18.0000°; P Plg42.0000°,Azm115.0000°
IDC Error ellipse: s-maj=18.4km s-min=11.1km az=124.0.

(228) Near east coast of eastern Honshu

ISC	**II**	**19 23 17 33.9–.77**	**37.14N–.04**	**141.42E–.07**	**40–8**	**3.9b**	**55**	**0-147**	
NIED	II	19 23 17 00	37.20N	141.40E	50	4.0W			**¶17192554**
ISCJB	II	19 23 17 32.8–.69	37.13N–.03	141.43E–.07	46–5	3.9b			
IDC	II	19 23 17 34.9–1.4	37.13N	141.32E	48–14	4.0,3.9			
JMA	II	19 23 17 34.5–.10	37.16N	141.33E	48–1	3.8,3.9			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ17.00000°,λ76.00000°. NP2:ϕ_s25.00000°,δ73.00000°,λ94.00000°. $M_0$1.14000$\times10^{15}$
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=15.8.
IDC Error ellipse: s-maj=15.5km s-min=10.0km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s17.00000°,δ72.00000°,λ89.00000°. NP2: ϕ_s200.00000°,δ18.00000°,λ93.00000°. Principal axes: T Plg63.0000°,Azm286.0000°
; N Plg1.0000°,Azm18.0000°; P Plg27.0000°,Azm108.0000°

(162) South Island

ISC	**II**	**20 03 48 27.0–.90**	**43.40S–.03**	**172.43E–.03**	**17–6**		**42**	**0-153**	
IDC	II	20 03 48 25.1–1.5	43.25S	172.44E	0	3.6,3.5			**¶16032965**
ISCJB	II	20 03 48 27.0–.38	43.43S–.03	172.44E–.04	24–4	3.3b,3.5			
WEL	II	20 03 48 27.6–.07	43.41S	172.40E	8–0	3.9L,3.7W			

ISC Event type ke.
IDC Error ellipse: s-maj=53.3km s-min=12.7km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.7km az=4.7.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(162) South Island

WEL	**II**	**20 05 34 50.2–.08**	**43.41S**	**172.40E**	**10–0**	**3.7L**			**¶16032967**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(135) Near coast of central Chile

ISC	**II**	**20 06 10 23.5–1.8**	**34.02S–.04**	**72.40W–.06**	**2–11**	**4.1b**	**42**	**0-157**	
IDC	II	20 06 10 25.6–1.2	34.05S	71.91W	0	4.1,3.9			**¶16166736**
ISCJB	II	20 06 10 26.1–1.7	34.01S–.03	72.47W–.06	15–12	4.0b,3.7s			
GUC	II	20 06 10 26.8–.59	34.06S	72.23W	21–3	4.6L,3.7s			
NEIC	II	20 06 10 26.0	34.05S	72.23W	21	4.6L,4.2b			

ISC Event type fe.
IDC Error ellipse: s-maj=39.3km s-min=26.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.5km az=1.0.
GUC Error ellipse: s-maj=1.7km s-min=3.8km az=-1.0.
NEIC Event type fe. Felt [III] at Quillota and [II] at San Antonio and Valparaiso. After GUC.

(348) Northern and central Iran

ISC	**II**	**20 11 22 16.3–.65**	**35.40N–.03**	**51.85E–.02**	**10**		**113**	**0-28**	
ISN	II	20 11 22 04.8–.61	35.73N	52.64E	0–37	4.1L			**¶16057002**
ISCJB	II	20 11 22 15.6–.29	35.41N–.02	51.83E–.02	10	4.2b			
CSEM	II	20 11 22 15.6–.20	35.42N	51.85E	2	4.0L			
NEIC	II	20 11 22 16.0	35.43N	51.83E	7	4.2L,4.1			
THR	II	20 11 22 16.4–1.2	35.42N	51.76E	15–8	4.1L,4.1			
TEH	II	20 11 22 16.5	35.45N	51.83E	5	4.0L,4.1			
AZER	II	20 11 22 20.2–.06	35.45N	51.97E	54–3	4.0L,4.1			

ISC Event type fe.
ISN Error ellipse: s-maj=17.0km s-min=55.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=163.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=154.0.
NEIC Event type fe. Felt at Tehran. After TEH.
THR Error ellipse: s-maj=4.0km s-min=5.5km az=-1.0.
AZER Error ellipse: s-maj=4.6km s-min=4.1km az=255.0.

(162) South Island

WEL	**II**	**20 14 25 15.5–.09**	**43.40S**	**172.40E**	**8–1**	**3.7L**			**¶16057006**

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(706) Northern Sumatera

ISC	**II**	**20 14 32 23.3–.34**	**1.32N–.03**	**97.17E–.03**	**29–1**	**5.3b,4.6s**	**658**	**0-159**	
IDC	II	20 14 32 21.7–2.7	1.32N	97.16E	18–16	4.9,4.9			**¶16057007**
BJI	II	20 14 32 21.8	1.20N	97.30E	40	5.4b,5.3b			

ISCJB II 20 14 32 22.7–.40 1.34N–.02 97.18E–.02 36–3 5.1b,4.6s
DJA II 20 14 32 22.9–.70 1N–3.0 97E–5.0 26–5 5.4b,5.3
MOS II 20 14 32 22.3–.79 1.39N 97.21E 33 5.6b,4.7s
NEIC II 20 14 32 24.9–.54 1.36N 97.20E 40–4 5.3b,4.7s
KLM II 20 14 32 24.4 1.31N 97.07E 38 5.9s,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=13.6km s-min=10.1km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=141.4.
MOS Error ellipse: s-maj=8.0km s-min=4.4km az=111.9.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=47.0. Felt [III] at Gunungsitoli. Felt [II] at Singkil, Sumatra.

(502) Arkansas

ISC II 20 15 14 59.7–.96 35.26N–.03 92.38W–.02 7–7 177 0-17
NEIC II 20 15 15 00.0 35.26N 92.38W 5 3.7,3.6W **¶16172968**
IDC II 20 15 15 04.3–5.3 35.43N 92.92W 0 4.1L,3.8
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Blytheville, Cabot, Cave City, Damascus, Edgemont, Enola, Marshall and Quitman. After CERI. Moment Tensor Solution. s40 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.08 $M_{\theta\theta}$1.81 $M_{\phi\phi}$-1.73 $M_{r\theta}$-0.05 $M_{\theta\phi}$2.04 $M_{\theta r}$0.52 Best double couple: NP1:ϕ_s110.00000°,δ80.00000°,λ-5.00000°. NP2:ϕ_s201.00000° ,δ85.00000°,λ-170.00000°. Principal axes: T 2.7500,Plg4.0000°,Azm335.0000° ; N 0.0000,Plg79.0000°,Azm227.0000°; P -2.7500,Plg11.0000°,Azm66.0000° M_o2.80000×10^{14}
IDC Error ellipse: s-maj=80.6km s-min=16.4km az=108.0.

(91) Virgin Islands

ISC II 20 17 04 58.0–2.7 18.9N–.10 64.24W–.04 18–10 64 1-4
TRN II 20 17 04 58.9 18.76N 64.25W 32 **¶16033740**
ISCJB II 20 17 04 59.8–2.1 18.9N–.20 64.24W–.05 33–29
RSPR II 20 17 05 01.5 18.87N 64.25W 24–29 3.6
NEIC II 20 17 05 01.5 18.87N 64.25W 24 3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=27.7km s-min=5.0km az=11.6.
RSPR Event type ke.
NEIC Event type fe. Felt on Tortola. After RSPR.

(502) Arkansas

ISC II 20 18 22 04.6–1.2 35.25N–.03 92.36W–.02 6–10 47 1-6
NEIC II 20 18 22 05.0 35.26N 92.35W 6 2.7 **¶601793402**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Little Rock. After CERI.

(45) California-Baja California border region

ISC II 20 19 34 41.0–.96 32.14N–.02 115.25W–.02 9–6 4.4b,4.0s 346 0-107
BJI II 20 19 34 36.6 32.20N 115.20W 5 4.9b,4.9s **¶16057017**
ISCJB II 20 19 34 39.5–.43 32.16N–.02 115.22W–.01 6–3 4.3b,4.0s
IDC II 20 19 34 42.1–1.1 32.39N 114.95W 0 4.4,4.2
NEIC II 20 19 34 42.4 32.16N 115.29W 8 4.7L,4.5W
ECX II 20 19 34 42.4–.52 32.16N 115.29W 8 4.7L,4.5
MEX II 20 19 34 43.2–.52 32.23N 115.14W 15–7 5.0,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=13.6.
IDC Error ellipse: s-maj=22.2km s-min=8.1km az=36.0.
NEIC Event type fe. Felt [III] at Mexicali and [II] at Ensenada and Tijuana. Also felt at San Felipe. Felt at Puerto Penasco, Sonora. Felt [III] at Somerton, Wellton and Yuma, Arizona. Also felt at Dateland and Roll. Felt [III] at El Centro and [II] at Calexico, Chula Vista, El Cajon, Holtville, Imperial, Lakeside, San Diego, Spring Valley and Winterhaven, California. Felt in much of Imperial and San Diego Counties. After ECX. Moment Tensor Solution. M_o6.30000×10^{15}
ECX Error ellipse: s-maj=1.2km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=5.5km s-min=7.6km az=-1.0.

(45) California-Baja California border region

ISC II 20 21 28 52.7–1.0 32.20N–.02 115.22W–.03 21–1 52 0-2
ISCJB II 20 21 28 52.8–.43 32.20N–.02 115.21W–.04 25–4 **¶16414867**
ECX II 20 21 28 54.3–.44 32.16N 115.30W 8 3.0L,2.8
NEIC II 20 21 28 54.3 32.16N 115.30W 8 3.0L,2.9L
MEX II 20 21 28 55.5–.69 32.27N 115.17W 22–17 3.3,2.9L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.5km az=174.5.
ECX Error ellipse: s-maj=0.8km s-min=1.4km az=-1.0.
NEIC Event type fe. Felt at Yuma, Arizona. After ECX.
MEX Error ellipse: s-maj=9.2km s-min=16.2km az=-1.0.

(162) South Island

WEL II 20 21 38 18.3–.06 43.41S 172.42E 9–0 3.6L ¶16057022
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(218) Near east coast of Kamchatka Peninsula

ISC II 20 21 43 24.9–.18 55.84N–.02 162.24E–.02 39–2 6.0b,5.9s 2410 0-165
BJI II 20 21 43 18.2 55.77N 162.36E 18 6.3,6.2s **¶16033687**
NEIC II 20 21 43 20.0–.00 55.92N 162.11E 15 6.3,6.2s
KRSC II 20 21 43 22.8–.79 55.73N 162.48E 48–17 6.2L,6.2s
IDC II 20 21 43 23.6–1.2 55.89N 162.20E 29–7 5.8,5.8s
NEIC II 20 21 43 24.1–.07 55.92N 162.12E 33 6.1W,6.1b
MOS II 20 21 43 24.4–.96 55.85N 162.27E 51 6.2b,6.0s
GCMT II 20 21 43 24.1–.10 55.80N 162.60E 25 6.2W,6.0s
ISCJB II 20 21 43 24.7–.21 55.87N–.01 162.26E–.02 54–1 6.0b,5.9s
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s53 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.50 $M_{\theta\theta}$0.20 $M_{\phi\phi}$0.30 $M_{r\theta}$-0.20 $M_{\theta\phi}$0.00 $M_{\theta r}$1.50 Best double couple: NP1:ϕ_s174.00000° ,δ83.00000°,λ-90.00000°. NP2:ϕ_s1.00000°,δ7.00000°,λ-83.00000°. Principal axes: T 1.5000,Plg38.0000°,Azm264.0000°; N 0.2000,Plg0.0000°,Azm173.0000° ; P -1.7000,Plg51.0000°,Azm82.0000° M_o2.00000×10^{18}
KRSC Event type se.
NEIC Event type fe. Felt [IV] at Klyuchi and Ust'Kamchatsk and [III] at Petropavlovsk-Kamchatskiy. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s72 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.27 $M_{\theta\theta}$4.06 $M_{\phi\phi}$0.21 $M_{r\theta}$0.88 $M_{\theta\phi}$1.20 $M_{\theta r}$7.15 Best double couple: NP1:ϕ_s81.00000°,δ23.00000° ,λ-34.00000°. NP2:ϕ_s203.00000°,δ78.00000°,λ-109.00000°. Principal axes: T 6.4100,Plg30.0000°,Azm308.0000°; N 3.1200,Plg18.0000°,Azm207.0000° ; P -9.5200,Plg54.0000°,Azm90.0000° M_o8.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ5.00000°,λ-90.00000°. NP2: ϕ_s175.00000°,δ85.00000°,λ-90.00000°. Principal axes: T Plg40.0000°,Azm265.0000° ; N Plg0.0000°,Azm0.0000°; P Plg50.0000°,Azm85.0000°
MOS Event type fe. Mo 1.2E18 n.m, Mw 6.0 (OBN) Fault plane solution: P-wave C43, D110 . Felt (III-IV) at Ust'-Kamchatsk, Kluchi; (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ71.00000° ,λ-106.00000°. NP2:ϕ_s37.00000°,δ24.00000°,λ-50.00000°. Principal axes: T Plg25.0000° ,Azm277.0000°; N Plg15.0000°,Azm180.0000°; P Plg60.0000°,Azm61.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c313; s133,c368;Duration: 3$\overline{s}$0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.25±.01 $M_{\theta\theta}$0.18±.01; $M_{\phi\phi}$0.06±.01; $M_{r\theta}$0.37±.02; $M_{\theta\phi}$-0.01±.01; $M_{\theta r}$2.30±.01; Best double couple: NP1:ϕ_s189.00000°,δ88.00000°,λ-90.00000°. NP2:ϕ_s17.00000° ,δ2.00000°,λ-83.00000°. Principal axes: T 2.2440,Plg43.0000°,Azm280.0000° ; N 0.1820,Plg0.0000°,Azm189.0000°; P -2.4270,Plg47.0000°,Azm99.0000° M_o2.33500×10^{18}
ISCJB Event type fe.

(130) Catamarca Province

ISC II 20 22 25 50.2–.35 27.90S–.03 66.66W–.04 167–3 4.9b 207 1-174
ISCJB II 20 22 25 49.3–.22 27.93S–.02 66.71W–.03 172–2 4.7b **¶16057023**
NEIC II 20 22 25 49.0 27.90S 66.58W 152 5.0b,4.8
SJA II 20 22 25 49.9–1.1 27.96S 66.73W 174–5 4.3L,4.8
GUC II 20 22 25 50.8–.41 27.98S 66.78W 170–43 5.4L,4.8
IDC II 20 22 25 51.4–.48 27.84S 66.40W 169–3 4.8,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=10.7.
NEIC Event type fe. Felt [III] at Catamarca. After SJA.
SJA Error ellipse: s-maj=2.5km s-min=5.3km az=-1.0.
GUC Error ellipse: s-maj=2.2km s-min=16.8km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=10.6km az=89.0.

(135) Near coast of central Chile

ISC II 20 23 23 13.9–.82 36.96S–.07 73.61W–.06 14 3.9b 38 0-160
GUC II 20 23 23 13.5–.41 37.15S 73.54W 14–2 4.4L **¶16363005**
IDC II 20 23 23 13.0–1.1 36.76S 73.52W 0 4.2,4.2s
NEIC II 20 23 23 13.0 37.15S 73.54W 14 4.4L,4.2s
ISC Event type fe.
GUC Error ellipse: s-maj=4.2km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=31.8km s-min=18.9km az=66.0.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, San Pedro de la Paz and Talcahuano; [II] at Arauco, Curanilahue, Hualpen, Lebu and Tome. After GUC.

(78) Costa Rica

ISC II 21 01 31 35.5–.55 10.29N–.05 84.88W–.05 66–4 4.6b 580 0-141
IDC II 21 01 31 34.2–.59 10.48N 84.82W 56–6 4.3,4.2 **¶16245264**
ISCJB II 21 01 31 35.6–.26 10.34N–.03 84.84W–.03 81–2 4.5b,4.2
CASC II 21 01 31 36.0–1.4 10.26N 84.89W 58–6 4.7b,4.7
NEIC II 21 01 31 36.5–.43 10.27N 84.87W 74–4 4.8,4.7b
BJI II 21 01 31 37.4 10.30N 84.90W 71 5.3b,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=16.4km s-min=10.7km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=2.5km az=36.1.
CASC Error ellipse: s-maj=6.4km s-min=5.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=3.3km az=207.0. Felt [IV] at Atenas, Miramar, Nicoya and San Ramon; [III] at Alajuela, Curridabat, Escazu, Grecia, Naranjo and San Jose; [II] at Desamparados, Heredia, Jaco, Puntarenas, San Rafael, Santa Ana and Tilaran. Felt in Alajuela, Guanacaste, southern Heredia, Puntarenas and San Jose. Moment Tensor Solution. Best double couple: NP1:ϕ_s111.00000°,δ45.00000°,λ2.00000°. NP2: ϕ_s20.00000°,δ89.00000°,λ135.00000°. Principal axes: T 0.8200,Plg31.0000°,Azm326.0000° ; N 0.3000,Plg45.0000°,Azm199.0000°; P -1.1200,Plg29.0000°,Azm75.0000°

(502) Arkansas

ISC II 21 04 27 55.5–.92 35.28N–.02 92.39W–.02 6–7 80 0-8
NEIC II 21 04 27 56.0 35.27N 92.36W 4 2.8 **¶16852154**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Quitman. After CERI.

(123) Northern Chile

ISC II 21 04 57 56.3–.46 23.03S–.04 68.66W–.04 110–4 4.5b 122 1-170
SJA II 21 04 57 46.4–.62 22.47S 69.13W 189–35 3.9W,3.9L **¶16057028**
ISCJB II 21 04 57 55.6–.27 23.10S–.03 68.68W–.04 119–3 4.6b,3.9L
BJI II 21 04 57 56.4 22.90S 68.70W 96 5.4b,3.9L
NEIC II 21 04 57 56.0 23.01S 68.76W 121 4.5b,3.9L
GUC II 21 04 57 56.5–.66 23.01S 68.76W 121–8 5.0L,3.9L
IDC II 21 04 57 56.8–.57 22.92S 68.48W 108–4 4.4,4.2
SCB II 21 04 58 16.7–.77 21.30S 68.88W 83 3.7L,4.2
ISC Event type fe.
SJA Error ellipse: s-maj=9.8km s-min=12.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=149.1.
NEIC Event type fe. Felt [IV] at Calama; [III] at Oficina Maria Elena, San Pedro de Atacama and Sierra Gorda; [II] at Copiapo and Tierra Amarilla. After GUC.
GUC Error ellipse: s-maj=3.1km s-min=7.6km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=13.9km az=35.0.
SCB Event type ke. Error ellipse: s-maj=87.9km s-min=17.3km az=99.0.

(144) Southern Chile

ISC II 21 05 38 47.0–.26 45.74S–.04 72.40W–.06 10 5.3b,4.7s 797 0-178
GUC II 21 05 38 42.6–.73 45.91S 73.20W 17–6 4.9L,4.7s **¶16168884**
IDC II 21 05 38 44.8–.42 45.85S 72.48W 0 4.9,4.9b
ISCJB II 21 05 38 45.7–.17 45.76S–.04 72.27W–.07 10 5.3b,4.7s
MOS II 21 05 38 50.2–1.0 45.66S 72.71W 33 5.5b,4.7s
NEIC II 21 05 38 51.0–.91 45.76S 72.36W 37–7 5.3b,4.8s
BJI II 21 05 38 51.3 45.70S 72.30W 35 5.5s,5.3b
GCMT II 21 05 38 51.0–.40 46.02S 72.55W 18–1 5.0W,5.3b
ISC Event type fe.
GUC Error ellipse: s-maj=1.7km s-min=12.8km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=12.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=158.7.
MOS Error ellipse: s-maj=22.3km s-min=9.0km az=98.7.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=74.0. Felt [II] at Coihaique and Puerto Aisen.
GCMT Error ellipse: s-maj=6.7km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c30; s59,c75; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.22 $M_{\theta\theta}$1.94±.13; $M_{\phi\phi}$-0.43±.18; $M_{r\theta}$0.09±.28; $M_{\theta\phi}$1.59±.12; $M_{\theta r}$-3.72±.69; Best double couple: NP1:ϕ_s18.00000°,δ79.00000° ,λ-121.00000°. NP2:ϕ_s271.00000°,δ32.00000°,λ-20.00000°. Principal axes: T 3.6340,Plg28.0000°,Azm132.0000°; N 1.2740,Plg30.0000°,Azm24.0000° ; P -4.9150,Plg47.0000°,Azm256.0000° M_o4.27400×10^{16}

(502) Arkansas

ISC II 21 05 42 45.4–.96 35.27N–.03 92.35W–.02 8–7 51 0-11
NEIC II 21 05 42 45.8 35.27N 92.36W 4 2.6 **¶601793426**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(233) Near south coast of western Honshu

ISC II 21 06 46 10.7–.35 33.86N–.03 135.34E–.02 56–3 4.9b,4.0s 415 0-116
NIED II 21 06 46 00 33.90N 135.40E 56 4.8W,4.0s **¶16033752**
BJI II 21 06 46 03.8 33.63N 135.88E 51 4.9b,4.8b
MOS II 21 06 46 07.8–1.0 33.85N 135.26E 47 5.2b,4.8b
IDC II 21 06 46 08.7–1.2 33.84N 135.30E 42–11 4.5,4.4
ISCJB II 21 06 46 09.1–.23 33.85N–.02 135.33E–.02 55–1 4.8b,4.0s
JMA II 21 06 46 10.1 33.88N 135.36E 53–1 4.8,4.0s
NEIC II 21 06 46 10.4–.42 33.84N 135.32E 55–3 4.9b,4.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ15.00000°,λ-149.00000°. NP2:ϕ_s331.00000°,δ82.00000°,λ-77.00000°. M_o2.03000×10^{16}
MOS Error ellipse: s-maj=7.0km s-min=5.0km az=91.5.
IDC Error ellipse: s-maj=10.3km s-min=7.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=159.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s301.00000°,δ81.00000°,λ-97.00000°. NP2:ϕ_s161.00000°,δ11.00000°,λ-50.00000°. Principal axes: T Plg36.0000°,Azm37.0000°; N Plg7.0000°,Azm302.0000°; P Plg53.0000° ,Azm202.0000°
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=147.0. Felt [II] at Hirakata and Kobe. Also felt at Gobo, Ikoma, Izumi, Izumi-Sano, Matsuzaka, Nagoya, Osaka, Sumoto and Yawata. Recorded [4 JMA] in Wakayama; [3 JMA] in Nara; [2 JMA] in Hyogo, Kyoto, Mie, Okayama, Osaka and Shiga; [1 JMA] in Aichi, Fukui, Gifu, Hiroshima, Shizuoka and Yamaguchi. Also recorded [2 JMA] in Kagawa, Kochi and Tokushima and [1 JMA] in Ehime, Shikoku.

(132) Santiago del Estero Province

ISC II 21 06 58 36.7–.29 27.13S–.03 64.70W–.04 14–1 6.0b,5.4s 1492 1-176
SJA II 21 06 58 34.6–.42 27.27S 64.66W 10 5.6L,5.4W **¶16033753**
IDC II 21 06 58 34.4–.31 27.13S 64.76W 0 5.3,5.3b
ISCJB II 21 06 58 36.0–.14 27.05S–.02 64.75W–.03 18 5.8b,5.4s
BJI II 21 06 58 35.1 26.76S 64.95W 11 5.7b,5.7s
NEIC II 21 06 58 36.4–.38 27.15S 64.69W 13–2 6.0b,5.9
GCMT II 21 06 58 36.4–.10 27.22S 64.80W 24–0 5.6W,5.9
MOS II 21 06 58 39.4–.95 26.81S 64.69W 33 6.1b,5.4s
ISC Event type fe.
SJA Error ellipse: s-maj=0.8km s-min=2.2km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=17.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=62.0. Felt [VI] in the Agua Dulce-Ranchillos area; [V] at San Miguel de Tucuman and Termas de Rio Hondo; [IV] at Santiago del Estero; [III] at Catamarca and Salta; [II] at Cordoba. Also felt at La Rioja and in Chaco. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}2.19 $M_{\theta\theta}$0.48 $M_{\phi\phi}$-2.68 $M_{r\theta}$-1.01 $M_{\theta\phi}$-1.89 $M_{\theta r}$0.41 Best double couple: NP1:ϕ_s355.00000°,δ54.00000° ,λ45.00000°. NP2:ϕ_s235.00000°,δ55.00000°,λ134.00000°. Principal axes: T 2.9400,Plg55.0000°,Azm204.0000°; N 0.6200,Plg35.0000°,Azm26.0000° ; P -3.5600,Plg1.0000°,Azm295.0000° M_o3.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c139; s103,c234;Duration: 1$\overline{s}$5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32±.04 $M_{\theta\theta}$0.24±.03; $M_{\phi\phi}$-2.56±.04; $M_{r\theta}$-0.56±.05; $M_{\theta\phi}$0.32±.02; $M_{\theta r}$1.04±.06; Best double couple: NP1: ϕ_s344.00000°,δ58.00000°,λ79.00000°. NP2:ϕ_s184.00000°,δ34.00000°,λ108.00000°. Principal axes: T 2.6300,Plg74.0000°,Azm222.0000°; N 0.2040,Plg10.0000°,Azm350.0000° ; P -2.8320,Plg12.0000°,Azm82.0000° M_o2.73100×10^{17}
MOS Error ellipse: s-maj=11.2km s-min=6.6km az=112.5.

(228) Near east coast of eastern Honshu

ISC II 21 07 08 19.2–.93 36.91N–.07 140.13E–.06 100–6 3.5b 30 0-76
ISCJB II 21 07 08 18.5–.59 36.93N–.06 140.11E–.07 106–3 3.5b **¶17192622**

IDC II 21 07 08 19.4–2.1 36.85N 140.13E 105–28 3.6,3.5
JMA II 21 07 08 19.7–.10 36.88N 140.12E 96–1 3.2,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.0km az=143.7.
IDC Error ellipse: s-maj=66.4km s-min=24.1km az=180.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(502) Arkansas

ISC II 21 10 59 13.8–1.3 35.27N–.02 92.38W–.03 2–12 52 1-5
NEIC II 21 10 59 14.0 35.26N 92.38W 7 2.5 **¶16852152**
ISC Event type fe.
NEIC Event type fe. Felt at Greenbrier. After CERI.

(228) Near east coast of eastern Honshu

ISC II 21 11 34 04.5–.71 38.00N–.05 141.08E–.05 81–6 4.2b 78 0-77
ISCJB II 21 11 34 03.6–.37 37.98N–.03 141.07E–.05 89–2 4.0b **¶600531296**
MOS II 21 11 34 03.6–1.3 37.97N 141.13E 95 4.4b
JMA II 21 11 34 04.9 37.99N 141.02E 78–1 3.9
IDC II 21 11 34 06.3–1.4 38.00N 140.94E 97–13 4.5s,4.5
NEIC II 21 11 34 06.5–.64 38.00N 140.93E 100–5 4.5b,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.9km az=33.2.
MOS Error ellipse: s-maj=11.9km s-min=7.7km az=72.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s301.00000°,δ77.00000°,λ-60.00000°. NP2:ϕ_s52.00000°,δ33.00000°,λ-155.00000°. Principal axes: T Plg26.0000°,Azm8.0000°; N Plg29.0000°,Azm114.0000°; P Plg49.0000°,Azm244.0000°
IDC Error ellipse: s-maj=16.1km s-min=9.5km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=5.8km az=129.0. Recorded [2 JMA] in Fukushima and Miyagi and [1 JMA] in Iwate.

(502) Arkansas

ISC II 21 16 17 31.7–.72 35.27N–.03 92.37W–.02 12–5 116 0-15
IDC II 21 16 17 30.9–.97 35.39N 92.38W 0 3.8L,3.6 **¶16172971**
ISCJB II 21 16 17 31.1–.50 35.24N–.02 92.35W–.02 4–4 3.8L,3.6
NEIC II 21 16 17 32.0 35.27N 92.39W 6 3.3,3.2W
ISC Event type fe.
IDC Error ellipse: s-maj=18.3km s-min=8.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=157.4.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. Also felt at Edgemont and Jacksonville. After CERI. Moment Tensor Solution. s9 Moment tensor: Scale 10^{13}Nm; M_{rr}-2.93 $M_{\theta\theta}$8.56 $M_{\phi\phi}$-5.63 $M_{r\theta}$1.95 $M_{\theta\phi}$1.02 $M_{\phi r}$4.64 Best double couple: NP1:ϕ_s125.00000°,δ55.00000°,λ-20.00000°. NP2:ϕ_s227.00000°,δ74.00000°,λ-143.00000°. Principal axes: T 9.1200,Plg12.0000°,Azm352.0000°; N 0.0000,Plg50.0000°,Azm247.0000°; P -9.1200,Plg37.0000°,Azm91.0000° $M_0$9.10000×10^{13}

(502) Arkansas

ISC II 21 16 21 57.5–.96 35.24N–.03 92.38W–.02 6–8 44 0-3
ISCJB II 21 16 21 57.1–.61 35.22N–.02 92.39W–.02 1–4 **¶601793439**
NEIC II 21 16 21 58.0 35.25N 92.39W 6 2.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=149.7.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway. After CERI.

(460) Wyoming

ISC II 21 16 32 15.5–.89 43.77N–.05 105.30W–.06 0 33 1-20
ISCJB II 21 16 32 13.9–.46 43.75N–.04 105.22W–.05 0 **¶17192642**
IDC II 21 16 32 14.2–1.6 43.82N 105.47W 0 3.6,3.3
NEIC II 21 16 32 15.0–.36 43.80N 105.25W 0 3.0L,3.3
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.2km s-min=5.6km az=23.3.
IDC Error ellipse: s-maj=43.8km s-min=8.3km az=148.0.
NEIC Event type fm. Error ellipse: s-maj=5.3km s-min=4.9km az=149.0. 60 km [37 miles] SSE of Gillette. Suspected Mining explosion.

(502) Arkansas

ISC II 21 17 31 59.0–1.3 35.23N–.02 92.39W–.04 4–12 51 0-5
ISCJB II 21 17 31 58.8–.79 35.23N–.03 92.38W–.04 2–7 **¶16425186**
NEIC II 21 17 31 59.0 35.25N 92.36W 7 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.1km az=21.4.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway. After CERI.

(460) Wyoming

ISC II 21 19 07 45.0–.71 43.61N–.04 105.25W–.03 0 60 1-62
IDC II 21 19 07 43.1–1.9 43.46N 105.21W 0 4.2b,3.9 **¶17192653**
ISCJB II 21 19 07 44.8–.27 43.64N–.03 105.29W–.03 0 4.5b,3.3s
NEIC II 21 19 07 45.5–.54 43.68N 105.19W 0 3.3L,3.3s
ISC Event type sm.
IDC Error ellipse: s-maj=46.8km s-min=9.2km az=149.0.
ISCJB Event type fm. Error ellipse: s-maj=4.4km s-min=2.5km az=150.4.
NEIC Event type fm. Error ellipse: s-maj=9.2km s-min=6.5km az=134.0. 72 km [45 miles] SSE of Gillette. Suspected Mining explosion.

(502) Arkansas

ISC II 21 23 10 19.7–1.3 35.27N–.03 92.43W–.03 3–11 33 1-8
NEIC II 21 23 10 20.0 35.25N 92.39W 5 3.0 **¶16852153**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Damascus and Quitman. After CERI.

(162) South Island

ISC II 21 23 51 42.3–.35 43.49S–.02 172.71E–.02 5–1 6.2s,5.8b 1526 0-178
ISCJB II 21 23 51 41.4–.18 43.43S–.02 172.84E–.03 10 6.2s,5.8b **¶16168897**
BJI II 21 23 51 41.0 43.50S 172.80E 5 6.4b,6.3s
NEIC II 21 23 51 42.0–.00 43.51S 172.44E 15 6.4b,6.3s
IDC II 21 23 51 42.3–1.1 43.44S 172.59E 4–6 6.0s,6.0
MOS II 21 23 51 42.1–.98 43.46S 172.56E 10 6.2s,5.9b
NEIC II 21 23 51 42.4 43.58S 172.68E 6 6.5,6.3L
WEL II 21 23 51 42.3–.11 43.58S 172.68E 5–0 6.3L,6.2W
GCMT II 21 23 51 43.0–.10 43.60S 172.52E 12 6.1W,6.2W
NEIC II 21 23 52 02.8–.00 43.57S 172.73E 10 6.1W,6.2W
ISC Event type de.
ISCJB Event type de. Error ellipse: s-maj=3.9km s-min=2.1km az=136.0.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{18}Nm; M_{rr}0.60 $M_{\theta\theta}$0.60 $M_{\phi\phi}$-1.20 $M_{r\theta}$0.50 $M_{\theta\phi}$-1.00 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s166.00000°,δ70.00000°,λ33.00000°. NP2:ϕ_s64.00000°,δ59.00000°,λ156.00000°. Principal axes: T 1.6000,Plg37.0000°,Azm28.0000°; N 0.1000,Plg51.0000°,Azm194.0000°; P -1.7000,Plg6.0000°,Azm293.0000° $M_0$2.00000×10^{18}
IDC Error ellipse: s-maj=8.8km s-min=6.9km az=20.0.
MOS Error ellipse: s-maj=11.9km s-min=8.7km az=115.3.
NEIC Event type de. At least 181 people killed, 1,500 injured and about 100,000 buildings destroyed or damaged [VIII] in the Christchurch-Lyttleton area. Landslides and liquefaction occurred in the area. Felt in much of Canterbury and as far as Invercargill and Palmerston North. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After WEL. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s58.00000°,δ64.00000°,λ146.00000°. NP2: ϕ_s165.00000°,δ60.00000°,λ31.00000°. Principal axes: T Plg42.0000°,Azm20.0000°; N Plg0.0000°,Azm0.0000°; P Plg2.0000°,Azm112.0000°
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Bay of Plenty to Southland, maximum reported intensity MM 8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c261; s141,c464;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}1.09±.01 $M_{\theta\theta}$0.60±.01; $M_{\phi\phi}$-1.70±.01; $M_{r\theta}$0.32±.03; $M_{\theta\phi}$-1.20±.01; $M_{\phi r}$-0.27±.03; Best double couple: NP1:ϕ_s168.00000°,δ62.00000°,λ36.00000°. NP2:ϕ_s59.00000°,δ59.00000°,λ147.00000°. Principal axes: T 1.4990,Plg44.0000°,Azm25.0000°; N 0.7090,Plg46.0000°,Azm201.0000°; P -2.2160,Plg2.0000°,Azm293.0000° $M_0$1.85800×10^{18}
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}1.11 $M_{\theta\theta}$0.58 $M_{\phi\phi}$-1.69 $M_{r\theta}$0.20 $M_{\theta\phi}$-1.23 $M_{\phi r}$-0.40 Best double couple: NP1:ϕ_s170.00000°,δ64.00000°,λ39.00000°. NP2:ϕ_s60.00000°,δ56.00000°,λ148.00000°. Principal axes: T 1.4700,Plg45.0000°,Azm28.0000°; N 0.7800,Plg44.0000°,Azm198.0000°; P -2.2500,Plg5.0000°,Azm293.0000° $M_0$1.90000×10^{18}

(162) South Island

WEL II 21 23 56 04.4–.12 43.56S 172.67E 5 4.5L
¶602734479
WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.5km az=90.0. Felt in the Canterbury region.

(162) South Island

ISC II 21 23 56 52.8–.97 43.62S–.03 172.83E–.04 11–5 4.3b 63 0-153
ISCJB II 21 23 56 51.8–.80 43.66S–.03 172.87E–.05 12–3 4.6b **¶16066014**
IDC II 21 23 56 53.0–1.3 43.46S 172.71E 0 4.8,4.5
WEL II 21 23 56 54.6–.08 43.59S 172.67E 5 4.9L,4.5
NEIC II 21 23 56 54.7 43.59S 172.66E 5 4.9L,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.5km az=37.7.
IDC Error ellipse: s-maj=48.9km s-min=15.2km az=163.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(162) South Island

ISC II 22 00 04 17.6–.74 43.57S–.03 172.85E–.03 1–4 5.8s,5.2b 631 0-175
IDC II 22 00 04 17.7–.55 43.54S 172.68E 0 5.1,5.0 **¶16057215**
BJI II 22 00 04 17.6 43.90S 172.40E 5 6.1b,6.1s
ISCJB II 22 00 04 17.1–.23 43.56S–.03 172.88E–.03 10 5.8s,5.3b
WEL II 22 00 04 19.3–.10 43.59S 172.66E 6–0 5.8L,5.5W
GCMT II 22 00 04 19.4–.20 43.50S 172.56E 12 5.5W,5.5W
NEIC II 22 00 04 19.4 43.59S 172.65E 6 5.7L,5.7b
MOS II 22 00 04 19.0–1.4 43.34S 172.65E 10 5.4b,5.7b
ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=11.6km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.0km az=143.2.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt from Nelson to Southland, maximum reported intensity MM 7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s10,c10; s108,c192;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.33±.06 $M_{\theta\theta}$1.31±.05; $M_{\phi\phi}$-1.64±.05; $M_{r\theta}$0.40±.18; $M_{\theta\phi}$-1.76±.05; $M_{\phi r}$0.10±.18; Best double couple: NP1:ϕ_s70.00000°,δ87.00000°,λ169.00000°. NP2:ϕ_s160.00000°,δ79.00000°,λ3.00000°. Principal axes: T 2.1850,Plg10.0000°,Azm24.0000°; N 0.2960,Plg79.0000°,Azm234.0000°; P -2.4860,Plg5.0000°,Azm115.0000° $M_0$2.33500×10^{17}
NEIC Event type fe. Felt strongly in the Christchurch area and [IV] at Dunedin and Oamaru. Felt widely in Canterbury and as far as Invercargill and Wellington. After WEL. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.04 $M_{\theta\theta}$2.15 $M_{\phi\phi}$-1.11 $M_{r\theta}$0.77 $M_{\theta\phi}$-1.61 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s66.00000°,δ70.00000°,λ-178.00000°. NP2:ϕ_s336.00000°,δ88.00000°,λ-20.00000°. Principal axes: T 3.0100,Plg13.0000°,Azm23.0000°; N -1.1900,Plg70.0000°,Azm150.0000°; P -1.8200,Plg16.0000°,Azm289.0000° $M_0$2.60000×10^{17}
MOS Error ellipse: s-maj=14.2km s-min=11.1km az=117.1.

(162) South Island

WEL II 22 00 06 56.8–.29 43.56S 172.79E 7–2 4.4L
¶602335951
WEL Event type fe. Error ellipse: s-maj=2.5km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(162) South Island

ISC II 22 00 21 26.0–1.1 43.55S–.04 172.85E–.04 18–5 73 0-149
IDC II 22 00 21 24.0–1.6 43.45S 172.78E 0 3.8,3.7 **¶16066015**
NEIC II 22 00 21 23.8 43.64S 173.01E 5 4.1L,3.7
ISCJB II 22 00 21 24.0–.70 43.64S–.03 172.95E–.04 17–6 3.4b,3.7
WEL II 22 00 21 25.8–.27 43.55S 172.79E 8–1 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=49.1km s-min=16.5km az=161.0.
NEIC Event type se. After WEL.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.5km az=138.9.
WEL Event type fe. Error ellipse: s-maj=2.6km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(162) South Island

WEL II 22 00 46 38.6–.14 43.60S 172.64E 7–1 4.3L
NEIC II 22 00 46 37.2 43.66S 172.84E 5 4.4L **¶16066016**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(162) South Island

ISC II 22 01 15 54.0–.96 43.57S–.03 172.68E–.04 7–6 66 0-149
ISCJB II 22 01 15 52.3–.58 43.63S–.04 172.78E–.05 11–4 3.9b **¶16066017**
WEL II 22 01 15 54.7–.08 43.60S 172.63E 5–0 4.4L
NEIC II 22 01 15 54.4 43.59S 172.66E 5 4.4L
IDC II 22 01 15 54.9–1.6 43.28S 172.50E 0 4.1,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.1km az=144.1.
WEL Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
IDC Error ellipse: s-maj=48.4km s-min=13.6km az=150.0.

(162) South Island

WEL II 22 01 16 23.8–.25 43.53S 172.74E 8–1 3.5L
¶602734485
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(162) South Island

WEL II 22 01 20 09.6–.12 43.59S 172.70E 7–0 4.4W,3.6L
¶602734487
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

ISC II 22 01 20 55.3–.92 43.59S–.03 172.81E–.04 11–6 126 0-149
ISCJB II 22 01 20 54.2–.56 43.65S–.03 172.85E–.04 17–5 3.8b **¶16066018**
IDC II 22 01 20 54.6–1.4 43.35S 172.69E 0 4.2,4.1L
WEL II 22 01 20 56.5–.08 43.58S 172.70E 9–0 4.5L,4.1L
NEIC II 22 01 20 56.5 43.58S 172.72E 4 4.5L,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=140.2.
IDC Error ellipse: s-maj=43.0km s-min=14.4km az=155.0.
WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0.
NEIC Event type fe. Felt in Canterbury. After WEL.

(162) South Island

WEL II 22 01 38 08.5–.07 43.60S 172.60E 5 3.5L
¶602336089
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 22 01 39 59.0–.13 43.53S 172.73E 8–0 4.0L
NEIC II 22 01 39 58.5 43.56S 172.74E 8 4.0L **¶16118175**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(162) South Island

ISC II 22 01 50 28.6–.76 43.59S–.03 172.74E–.03 5–4 5.5s,5.4b 694 0-175
ISCJB II 22 01 50 26.8–.20 43.61S–.02 172.83E–.03 10 5.5s,5.4b **¶16168899**
IDC II 22 01 50 28.4–.43 43.43S 172.67E 0 5.2,5.2s
BJI II 22 01 50 28.3 43.94S 172.20E 7 6.0b,5.5s
NEIC II 22 01 50 29.7 43.60S 172.62E 7 5.9L,5.6W
WEL II 22 01 50 29.8–.09 43.59S 172.63E 7–0 5.9L,5.6W
MOS II 22 01 50 29.3–1.2 43.48S 172.52E 10 5.4b,5.4s
GCMT II 22 01 50 29.7–.10 43.50S 172.55E 12 5.6W,5.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=1.8km az=141.5.
IDC Error ellipse: s-maj=15.6km s-min=10.8km az=168.0.
NEIC Event type fe. Felt strongly in the Christchurch area. After WEL. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.23 $M_{\theta\theta}$1.92 $M_{\phi\phi}$-1.69 $M_{r\theta}$-0.27 $M_{\theta\phi}$-1.75 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s335.00000°,δ77.00000°,λ-15.00000°. NP2:ϕ_s69.00000°,δ75.00000°,λ-167.00000°. Principal axes: T 2.6300,Plg1.0000°,Azm22.0000°; N 0.0800,Plg71.0000°,Azm116.0000°; P -2.7100,Plg19.0000°,Azm292.0000° $M_0$2.70000×10^{17}
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt from Fiordland to Wellington, maximum reported intensity MM 7.
MOS Error ellipse: s-maj=14.0km s-min=11.1km az=125.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s72,c109; s131,c306;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.04 $M_{\theta\theta}$2.12±.04; $M_{\phi\phi}$-2.15±.03; $M_{r\theta}$0.50±.10; $M_{\theta\phi}$-2.00±.03; $M_{\phi r}$0.83±.11; Best double couple: NP1: ϕ_s248.00000°,δ81.00000°,λ-166.00000°. NP2:ϕ_s155.00000°,δ76.00000°,λ-9.00000°. Principal axes: T 2.9200,Plg3.0000°,Azm21.0000°; N 0.3010,Plg73.0000°,Azm280.0000°; P -3.2190,Plg16.0000°,Azm112.0000° $M_0$3.06900×10^{17}

(162) South Island
WEL II 22 02 04 16.6–.14 43.61S 172.62E 7–1 3.7L ¶602734500
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL II 22 02 08 30.2–.11 43.60S 172.61E 8–0 3.8L ¶602734502
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(249) Luzon
ISC II 22 02 10 24.5–.29 14.12N–.03 120.60E–.03 140–2 5.2b 779 0-171
BJI II 22 02 10 17.6 13.68N 120.99E 132 5.2b,5.2b **¶16057291**
ISCJB II 22 02 10 23.6–.20 14.18N–.01 120.66E–.02 142–2 5.1b,5.2b
MAN II 22 02 10 23 14.15N 120.35E 102 5.4b,4.7s
KLM II 22 02 10 23.7 14.11N 121.01E 162 6.0s,5.4b
MOS II 22 02 10 23.4–.83 14.15N 120.66E 143 5.2b,5.4b
GCMT II 22 02 10 24.5–.30 14.16N 120.53E 138–4 5.2W,5.4b
NEIC II 22 02 10 24.5–.42 14.13N 120.65E 141–4 5.2b,5.4b
IDC II 22 02 10 24.7–.47 14.11N 120.65E 143–4 5.2,4.8
BKK II 22 02 10 28.0–.80 14N–4.0 121E–4.0 163–8 5.3b,5.3b
DJA II 22 02 10 29.2–1.2 14N–6.0 121E–4.0 189–10 5.5b,5.3b
ISC Event type fe.
ISCJB Event type fe.
MAN Event type fe. INTENSITY IV - MANILA; DASMARINAS CAVITE; INTENSITY III - QUEZON CITY; PASAY CITY; PASIG CITY; MAKATI CITY; MUNTINLUPA CITY; MALABO CITY.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c14; s86,c115;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.86±.37 $M_{\theta\theta}$-2.65±.39; $M_{\phi\phi}$-2.22±.46; $M_{r\theta}$3.29±.26; $M_{\theta\phi}$0.10±.37; $M_{\phi r}$-5.90±.31; Best double couple: NP1:ϕ_s149.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s321.00000° ,δ14.00000°,λ82.00000°. Principal axes: T 8.8990,Plg59.0000°,Azm62.0000° ; N -2.4570,Plg2.0000°,Azm329.0000°; P -6.4520,Plg31.0000°,Azm237.0000° $M_0$7.67600×10^{16}
NEIC Event type fe. Felt [IV PIVS] at Dasmarinas and Manila; [III PIVS] at Makati, Malabon, Malolos, Mariveles, Muntinlupa City, Pasay, Pasig, Quezon City, Subic and Tagaytay. Felt widely in southwestern Luzon. Felt [II PIVS] at Looc, Lubang Island and at Mamburao and San Teodoro, Mindoro.
(162) South Island
WEL II 22 02 21 42.3–.10 43.59S 172.64E 3–0 4.2L
NEIC II 22 02 21 41.1 43.58S 172.80E 5 4.3L **¶16066023**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
(162) South Island
ISC II 22 02 43 01.3–1.2 43.59S–.04 172.87E–.04 7–7 3.9b 196 0-150
ISCJB II 22 02 42 59.4–.59 43.64S–.03 172.95E–.03 6–4 4.0b **¶16066024**
IDC II 22 02 43 01.4–1.0 43.41S 172.77E 0 4.3,4.1
WEL II 22 02 43 02.8–.13 43.57S 172.75E 7–0 4.5L,4.1
NEIC II 22 02 43 02.4 43.58S 172.81E 11 4.6L,4.0b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=2.8km az=144.0.
IDC Error ellipse: s-maj=43.2km s-min=14.2km az=162.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
(162) South Island
ISC II 22 02 48 18.4–.82 43.61S–.03 172.67E–.04 14–4 3.6b 146 0-153
ISCJB II 22 02 48 16.5–.57 43.65S–.03 172.83E–.04 16–5 3.9b **¶16066025**
WEL II 22 02 48 18.9–.10 43.60S 172.63E 10–0 4.4L
IDC II 22 02 48 19.2–1.6 43.36S 172.48E 0 4.0,3.7
NEIC II 22 02 48 19.1 43.59S 172.56E 5 4.5L,4.4b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.3km az=137.1.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=50.6km s-min=14.6km az=156.0.
NEIC Event type se. After WEL.
(162) South Island
ISC II 22 03 04 08.6–.58 43.59S–.03 172.69E–.03 10 4.2s,4.1b 138 0-153
ISCJB II 22 03 04 06.1–.30 43.64S–.03 172.81E–.03 10 4.3s,4.3b **¶16057294**
IDC II 22 03 04 07.6–1.2 43.34S 172.63E 0 4.4,4.1
BJI II 22 03 04 08.5 43.60S 172.70E 12 4.9b,4.9s
NEIC II 22 03 04 09.1 43.57S 172.65E 12 5.0L,4.5b
WEL II 22 03 04 09.3–.14 43.57S 172.60E 4–1 4.9L,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=146.7.
IDC Error ellipse: s-maj=43.8km s-min=14.0km az=157.0.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s25 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.29 $M_{\theta\theta}$3.66 $M_{\phi\phi}$-3.37 $M_{r\theta}$1.91 $M_{\theta\phi}$-3.98 $M_{\phi r}$-0.80 Best double couple: NP1:ϕ_s161.00000°,δ77.00000°,λ12.00000°. NP2:ϕ_s68.00000° ,δ78.00000°,λ167.00000°. Principal axes: T 6.1200,Plg18.0000°,Azm24.0000° ; N -0.9600,Plg72.0000°,Azm207.0000°; P -5.1700,Plg1.0000°,Azm114.0000° $M_0$5.70000×10^{15}
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.0km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.
(162) South Island
ISC II 22 03 24 03.6–1.0 43.57S–.03 172.73E–.04 7–6 3.6b 51 0-149
ISCJB II 22 03 24 02.4–.78 43.58S–.04 172.82E–.05 4–5 3.8b **¶16066026**
WEL II 22 03 24 04.8–.07 43.60S 172.64E 5 4.2L
NEIC II 22 03 24 04.8 43.60S 172.67E 5 4.4L,4.0b
IDC II 22 03 24 05.2–1.5 43.14S 172.43E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=142.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
IDC Error ellipse: s-maj=44.7km s-min=13.0km az=143.0.
(162) South Island
WEL II 22 03 32 23.4–.12 43.54S 172.70E 7–0 4.1L
NEIC II 22 03 32 23.0 43.54S 172.72E 10 4.2L **¶16066027**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
(162) South Island
WEL II 22 03 43 54.1–.17 43.54S 172.73E 8–0 3.7L ¶602734518
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Canterbury region.
(162) South Island
ISC II 22 03 46 53.2–.96 43.54S–.03 172.72E–.04 9–6 67 0-149
ISCJB II 22 03 46 52.1–.48 43.57S–.04 172.76E–.04 12–4 3.2b **¶16066029**
NEIC II 22 03 46 53.8 43.58S 172.64E 11 4.2L
IDC II 22 03 46 53.1–2.6 43.32S 172.57E 0 3.6,3.5
WEL II 22 03 46 54.3–.07 43.58S 172.63E 7–0 4.1L,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.2km az=155.7.
NEIC Event type fe. Felt in Canterbury. After WEL.
IDC Error ellipse: s-maj=57.1km s-min=18.3km az=149.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(224) Hokkaido region
ISC II 22 03 50 53.7–.91 43.07N–.05 145.91E–.04 46–8 4.2b 109 0-84
NIED II 22 03 50 00 43.00N 145.90E 41 4.0W **¶16168900**
IDC II 22 03 50 47.0–.78 43.13N 145.93E 0 4.3,4.1
ISCJB II 22 03 50 52.4–.57 43.00N–.04 145.92E–.05 54–4 4.1b,4.1s
MOS II 22 03 50 52.5–1.2 43.00N 145.87E 55 4.4b,4.1s
NEIC II 22 03 50 52.7–.93 43.06N 146.02E 42–8 4.3b,4.1s
SKHL II 22 03 50 53.9–.50 43.08N 145.78E 56–3 4.9b,4.1s
JMA II 22 03 50 53.1–.10 43.00N 145.89E 48–1 4.2,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ42.00000°,λ47.00000°. NP2:ϕ_s58.00000°,δ61.00000°,λ121.00000°. $M_0$1.30000×10^{15}
IDC Error ellipse: s-maj=22.0km s-min=15.7km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.3km az=141.1.
MOS Error ellipse: s-maj=10.3km s-min=6.5km az=83.3.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.4km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
(162) South Island
ISC II 22 04 19 05.2–.82 43.57S–.03 172.70E–.03 11–5 3.9b 126 0-153
IDC II 22 04 19 02.9–1.1 43.48S 172.79E 0 4.1,3.9 **¶16057295**
ISCJB II 22 04 19 03.1–.67 43.63S–.03 172.84E–.04 6–5 4.3b,4.1s
NEIC II 22 04 19 05.8 43.60S 172.75E 13 4.6L,4.1W
WEL II 22 04 19 06.2–.08 43.58S 172.63E 5–0 4.4L,4.1W
ISC Event type fe.
IDC Error ellipse: s-maj=46.1km s-min=14.7km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.1km az=140.6.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s14 Moment tensor: Scale 10^{15}Nm; M_{rr}0.46 $M_{\theta\theta}$-1.09 $M_{\phi\phi}$0.63 $M_{r\theta}$0.91 $M_{\theta\phi}$-1.03 $M_{\phi r}$-0.08 Best double couple: NP1:ϕ_s104.00000°,δ82.00000°,λ142.00000°. NP2:ϕ_s200.00000° ,δ53.00000°,λ10.00000°. Principal axes: T 1.4000,Plg32.0000°,Azm55.0000° ; N 0.4500,Plg52.0000°,Azm274.0000°; P -1.8500,Plg19.0000°,Azm158.0000° $M_0$1.70000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(238) Ryukyu Islands
ISC II 22 04 56 19.8–.44 26.39N–.03 128.90E–.03 20–2 5.3b,4.8s 734 1-169
NIED II 22 04 56 00 26.30N 129.00E 11 5.0W,4.8s **¶16057298**
ISCJB II 22 04 56 16.7–.73 26.46N–.02 128.73E–.02 5–4 5.1b,4.7s
IDC II 22 04 56 16.8–.40 26.46N 128.81E 0 5.0,4.9
BJI II 22 04 56 17.1 26.31N 128.96E 27 5.2s,5.1
JMA II 22 04 56 18.9–.20 26.36N 128.95E 33–4 5.2,5.1
NEIC II 22 04 56 19.7–1.1 26.42N 128.71E 16–6 5.3b,5.1W
MOS II 22 04 56 19.0–1.1 26.45N 128.74E 23 5.5b,5.1s
GCMT II 22 04 56 20.0–.30 26.32N 128.84E 20–0 5.0W,5.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ46.00000°,λ108.00000°. NP2:ϕ_s27.00000°,δ47.00000°,λ72.00000°. $M_0$3.10000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=145.2.
IDC Error ellipse: s-maj=13.3km s-min=10.7km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=135.0. Felt [II] at Chatan, Okinawa. Also felt at Nago, Naha, Urasoe and Yomitan. Recorded [2 JMA] on Okinawa and Yoron-jima. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}5.28 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-5.09 $M_{r\theta}$1.07 $M_{\theta\phi}$-1.91 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s191.00000°,δ39.00000° ,λ78.00000°. NP2:ϕ_s27.00000°,δ52.00000°,λ100.00000°. Principal axes: T 5.5100,Plg80.0000°,Azm341.0000°; N 0.3700,Plg8.0000°,Azm201.0000° ; P -5.8900,Plg6.0000°,Azm110.0000° $M_0$5.70000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=108.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c58; s86,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.76±.19 $M_{\theta\theta}$-1.36±.11; $M_{\phi\phi}$-2.39±.13; $M_{r\theta}$2.03±.23; $M_{\theta\phi}$-1.53±.07; $M_{\phi r}$1.65±.23; Best double couple: NP1:ϕ_s44.00000°,δ63.00000° ,λ97.00000°. NP2:ϕ_s209.00000°,δ28.00000°,λ76.00000°. Principal axes: T 4.6400,Plg71.0000°,Azm330.0000°; N -0.3370,Plg6.0000°,Azm221.0000° ; P -4.2920,Plg18.0000°,Azm129.0000° $M_0$4.46600×10^{16}
(162) South Island
WEL II 22 04 56 51.5–.13 43.56S 172.70E 8–0 4.0L
NEIC II 22 04 56 51.5 43.59S 172.71E 13 4.0L **¶16066034**
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(162) South Island
WEL II 22 05 03 11.6–.13 43.62S 172.64E 8–1 4.2L
NEIC II 22 05 03 09.8–.45 43.76S 172.91E 10 4.3L **¶16066035**
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Error ellipse: s-maj=12.9km s-min=3.4km az=132.0. Felt at Christchurch.
(162) South Island
WEL II 22 05 17 22.3–.11 43.59S 172.61E 9–0 3.9L ¶16066037
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
(238) Ryukyu Islands
ISC II 22 05 28 23.1–.38 26.48N–.04 128.78E–.04 39–2 4.6b,4.2s 243 1-98
NIED II 22 05 28 00 26.40N 129.00E 20 4.7W,4.2s **¶16100864**
IDC II 22 05 28 16.4–.51 26.45N 128.85E 0 4.4,4.3
MOS II 22 05 28 17.8–1.3 26.40N 128.85E 17 4.9b,4.1s
BJI II 22 05 28 18.1 26.28N 129.05E 36 4.7b,4.6s
JMA II 22 05 28 18.9–.30 26.36N 128.94E 28–4 4.7,4.6s
ISCJB II 22 05 28 19.3–.68 26.40N–.03 128.87E–.03 28–4 4.5b,4.1s
NEIC II 22 05 28 22.9–.81 26.48N 128.75E 36–7 4.8b,4.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ32.00000°,λ57.00000°. NP2:ϕ_s59.00000°,δ64.00000°,λ109.00000°. $M_0$1.21000×10^{16}
IDC Error ellipse: s-maj=16.8km s-min=12.2km az=72.0.
MOS Error ellipse: s-maj=10.5km s-min=5.5km az=104.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=139.7.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.9km az=121.0. Felt on Okinawa. Recorded [1 JMA] on Okinawa.
(162) South Island
ISC II 22 05 59 35.1–.94 43.61S–.04 172.76E–.04 10–6 4.0b,3.4s 115 0-153
ISCJB II 22 05 59 33.6–.54 43.67S–.03 172.83E–.04 12–3 4.4b,3.4s **¶16066038**
NEIC II 22 05 59 35.0 43.64S 172.77E 5 4.7L,4.3W
IDC II 22 05 59 36.4–1.3 43.29S 172.49E 0 4.3,4.0b
WEL II 22 05 59 36.1–.12 43.61S 172.67E 8–0 4.6L,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.0km az=143.6.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s18 Moment tensor: Scale 10^{15}Nm; M_{rr}1.01 $M_{\theta\theta}$2.21 $M_{\phi\phi}$-3.22 $M_{r\theta}$1.09 $M_{\theta\phi}$-1.70 $M_{\phi r}$-0.17 Best double couple: NP1:ϕ_s154.00000°,δ71.00000°,λ18.00000°. NP2:ϕ_s58.00000° ,δ73.00000°,λ160.00000°. Principal axes: T 3.2400,Plg26.0000°,Azm15.0000° ; N 0.4700,Plg64.0000°,Azm200.0000°; P -3.7100,Plg2.0000°,Azm106.0000° $M_0$3.50000×10^{15}
IDC Error ellipse: s-maj=45.5km s-min=13.5km az=154.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL II 22 06 25 38.7–.06 43.60S 172.62E 5–0 3.4L
NEIC II 22 06 25 36.9 43.65S 172.84E 5 4.0L **¶16118180**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(162) South Island
ISC II 22 06 28 28.5–1.2 43.59S–.03 172.76E–.04 4–8 3.9b,3.6s 105 0-149
ISCJB II 22 06 28 26.9–.64 43.64S–.03 172.82E–.04 6–4 3.9b,3.7s **¶16066039**
IDC II 22 06 28 28.4–1.4 43.44S 172.67E 0 4.2,4.1
WEL II 22 06 28 29.5–.12 43.59S 172.65E 6–1 4.6L,4.1
NEIC II 22 06 28 31.0 43.59S 172.71E 5 4.7L,4.4W
BJI II 22 06 28 32.7 44.03S 172.10E 9 4.7s,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.2km az=143.6.
IDC Error ellipse: s-maj=46.2km s-min=14.3km az=161.0.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}0.20 $M_{\theta\theta}$2.19 $M_{\phi\phi}$-2.40 $M_{r\theta}$-0.91 $M_{\theta\phi}$-3.44 $M_{\phi r}$-1.43 Best double couple: NP1:ϕ_s342.00000°,δ75.00000°,λ-12.00000°. NP2:ϕ_s75.00000° ,δ78.00000°,λ-165.00000°. Principal axes: T 4.0300,Plg2.0000°,Azm208.0000° ; N 0.7700,Plg71.0000°,Azm112.0000°; P -4.8100,Plg19.0000°,Azm298.0000° $M_0$4.50000×10^{15}
(162) South Island
ISC II 22 06 43 31.9–1.0 43.60S–.03 172.79E–.04 7–5 4.5b,3.6s 217 0-153

ISCJB II 22 06 43 29.7–.54 43.65S–.03 172.87E–.03 9–3 4.5b,3.7s **¶16057300**
BJI II 22 06 43 29.6 43.91S 172.50E 4 4.8,4.8s
IDC II 22 06 43 30.9–1.1 43.42S 172.72E 0 4.6,4.5b
NEIC II 22 06 43 31.8 43.62S 172.73E 12 4.8L,4.5b
WEL II 22 06 43 32.5–.15 43.59S 172.71E 7–0 4.8L,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.8km az=144.1.
IDC Error ellipse: s-maj=43.5km s-min=13.8km az=162.0.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}1.07 $M_{\theta\theta}$1.52 $M_{\phi\phi}$-2.58 $M_{r\theta}$0.98 $M_{\theta\phi}$-3.19 $M_{\phi r}$-1.64 Best double couple: NP1:ϕ_s167.00000°,δ78.00000°,λ29.00000°. NP2:ϕ_s71.00000° ,δ62.00000°,λ166.00000°. Principal axes: T 4.1700,Plg29.0000°,Azm32.0000° ; N 0.3400,Plg59.0000°,Azm188.0000°; P -4.5000,Plg11.0000°,Azm296.0000° M_o4.30000×10^{15}
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
(162) South Island
ISC II 22 08 21 06.0–.86 43.57S–.03 172.75E–.04 9–4 4.5s,4.4b 154 0-154
ISCJB II 22 08 21 04.2–.48 43.62S–.03 172.80E–.03 12–3 4.6b,4.2s **¶16066040**
IDC II 22 08 21 04.4–.92 43.47S 172.64E 0 4.5,4.4b
BJI II 22 08 21 06.9 43.60S 172.60E 7 4.8b,4.8s
WEL II 22 08 21 06.8–.09 43.58S 172.62E 8–0 4.7L,4.8s
NEIC II 22 08 21 06.9 43.60S 172.56E 7 4.8L,4.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.9km az=139.3.
IDC Error ellipse: s-maj=38.3km s-min=12.6km az=164.0.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}0.66 $M_{\theta\theta}$2.11 $M_{\phi\phi}$-2.77 $M_{r\theta}$1.51 $M_{\theta\phi}$-1.77 $M_{\phi r}$0.13 Best double couple: NP1:ϕ_s60.00000°,δ78.00000°,λ154.00000°. NP2:ϕ_s156.00000° ,δ64.00000°,λ14.00000°. Principal axes: T 3.4100,Plg27.0000°,Azm15.0000° ; N 0.0300,Plg61.0000°,Azm216.0000°; P -3.4400,Plg9.0000°,Azm110.0000° M_o3.40000×10^{15}
(162) South Island
WEL II 22 08 38 32.1–.09 43.59S 172.67E 5 4.0L
NEIC II 22 08 38 32.0 43.59S 172.71E 7 4.1L **¶16066041**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(162) South Island
WEL II 22 09 16 07.1–.18 43.59S 172.62E 5–1 3.9L
NEIC II 22 09 16 06.5 43.61S 172.64E 5 4.0L **¶16066045**
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
(162) South Island
WEL II 22 09 18 38.6–.20 43.59S 172.62E 5 3.9L
NEIC II 22 09 18 38.0 43.60S 172.67E 5 4.0L **¶16066046**
WEL Event type fe. Error ellipse: s-maj=3.3km s-min=1.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
(229) Off east coast of Honshu
ISC II 22 09 53 38.8–.40 38.32N–.04 143.15E–.03 26–2 4.9s,4.9b 531 1-154
NIED II 22 09 53 00 38.20N 143.50E 17 5.0W,4.9b **¶16066048**
IDC II 22 09 53 33.4–.43 38.18N 143.30E 0 4.5,4.5
JMA II 22 09 53 34.3–.10 38.19N 143.48E 36 5.2,4.5
BJI II 22 09 53 35.8 38.34N 143.13E 21 5.2s,5.1
ISCJB II 22 09 53 36.1–.71 38.29N–.02 143.19E–.02 19–5 4.8s,4.8b
NEIC II 22 09 53 39.3–.59 38.23N 143.17E 32–4 4.9b,4.8b
MOS II 22 09 53 39.3–1.2 38.56N 143.07E 34 5.2b,4.9s
GCMT II 22 09 53 39.3–.20 38.23N 143.49E 20–0 5.1W,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ35.00000°,λ120.00000°. NP2:ϕ_s4.00000°,δ60.00000°,λ71.00000°. M_o4.07000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=10.4km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=148.6.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.2km az=150.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=96.9.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c77; s104,c164; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.71±.18 $M_{\theta\theta}$-0.68±.10; $M_{\phi\phi}$-3.03±.11; $M_{r\theta}$1.33±.21; $M_{\theta\phi}$-1.46±.06; $M_{\phi r}$3.96±.25; Best double couple: NP1:ϕ_s20.00000°,δ69.00000° ,λ86.00000°. NP2:ϕ_s211.00000°,δ21.00000°,λ100.00000°. Principal axes: T 5.5990,Plg66.0000°,Azm284.0000°; N -0.0120,Plg3.0000°,Azm22.0000° ; P -5.5870,Plg24.0000°,Azm113.0000° M_o5.59300×10^{16}
(162) South Island
WEL II 22 10 05 26.1–.10 43.58S 172.52E 8–1 4.0L
NEIC II 22 10 05 26.1 43.59S 172.51E 9 4.0L **¶16066049**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt southwest of Christchurch. After WEL.
(162) South Island
WEL II 22 10 36 35.6–.11 43.57S 172.67E 6–0 3.5L
¶602336531
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
ISC II 22 11 02 15.8–.99 43.59S–.03 172.83E–.03 3–5 4.3b,4.0s 161 0-149
ISCJB II 22 11 02 13.0–.67 43.66S–.03 172.94E–.03 3–4 4.5b,3.9s **¶16136355**
IDC II 22 11 02 14.5–1.6 43.46S 172.75E 0 4.3,4.1b
BJI II 22 11 02 15.5 43.38S 172.91E 5 4.9s,4.8b
NEIC II 22 11 02 16.3 43.57S 172.70E 5 4.5b,4.4L
WEL II 22 11 02 16.5–.18 43.60S 172.73E 11–0 4.4L,4.4L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.5km az=142.9.
IDC Error ellipse: s-maj=48.3km s-min=16.2km az=161.0.
NEIC Event type se. After WEL. Moment Tensor Solution. s28 Moment tensor: Scale 10^{15}Nm; M_{rr}0.58 $M_{\theta\theta}$0.57 $M_{\phi\phi}$-1.14 $M_{r\theta}$0.56 $M_{\theta\phi}$-1.00 $M_{\phi r}$-0.17 Best double couple: NP1:ϕ_s165.00000° ,δ65.00000°,λ24.00000°. NP2:ϕ_s64.00000°,δ68.00000°,λ153.00000°. Principal axes: T 1.4200,Plg34.0000°,Azm24.0000°; N 0.1800,Plg55.0000°,Azm209.0000° ; P -1.6000,Plg2.0000°,Azm115.0000° M_o1.50000×10^{15}
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL II 22 11 18 13.3–.20 43.59S 172.62E 5–1 4.2L
NEIC II 22 11 18 11.4 43.66S 172.75E 5 4.2L **¶16160392**
WEL Event type fe. Error ellipse: s-maj=2.3km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
(162) South Island
WEL II 22 11 43 47.5–.14 43.59S 172.70E 6–0 3.5L
¶602336557
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL II 22 11 49 21.6–.12 43.59S 172.64E 4–0 4.4L
NEIC II 22 11 49 21.0 43.61S 172.69E 5 4.3L **¶16160394**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(162) South Island
WEL II 22 11 57 45.0–.10 43.58S 172.67E 4–0 3.9L
NEIC II 22 11 57 45.1 43.58S 172.64E 4 3.9L **¶16160395**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
(162) South Island
WEL II 22 12 21 23.6–.13 43.60S 172.61E 5–1 3.9L
NEIC II 22 12 21 23.5 43.59S 172.70E 12 3.9L **¶16160396**
WEL Event type fe. Error ellipse: s-maj=2.6km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
(162) South Island
WEL II 22 13 26 03.6–.19 43.59S 172.69E 9–0 3.8L
NEIC II 22 13 26 02.5 43.63S 172.76E 7 3.9L **¶16160397**
WEL Event type fe. Error ellipse: s-maj=2.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
(162) South Island
ISC II 22 14 04 37.0–1.2 43.63S–.04 172.84E–.05 11–7 3.9b 124 0-149
ISCJB II 22 14 04 35.7–.64 43.67S–.03 172.91E–.04 11–4 3.8b **¶16136357**
IDC II 22 14 04 38.6–1.8 43.24S 172.51E 0 4.1,4.0
NEIC II 22 14 04 39.0 43.58S 172.72E 5 4.7L,4.2W
WEL II 22 14 04 39.5–.06 43.58S 172.68E 5 4.6L,4.2W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.2km az=139.4.
IDC Error ellipse: s-maj=44.2km s-min=14.0km az=146.0.
NEIC Event type fe. Felt in the Christchurch area. After WEL. Moment Tensor Solution. s31 Moment tensor: Scale 10^{15}Nm; M_{rr}0.13 $M_{\theta\theta}$0.12 $M_{\phi\phi}$-0.25 $M_{r\theta}$1.06 $M_{\theta\phi}$-2.58 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s180.00000°,δ69.00000°,λ10.00000°. NP2:ϕ_s86.00000° ,δ80.00000°,λ159.00000°. Principal axes: T 2.9700,Plg22.0000°,Azm42.0000° ; N -0.2700,Plg67.0000°,Azm243.0000°; P -2.7000,Plg8.0000°,Azm135.0000° M_o2.80000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(213) Volcano Islands region
ISC II 22 14 09 50.2–.32 22.19N–.03 143.85E–.03 112–2 5.5b 1308 5-167
NIED II 22 14 09 00 22.60N 144.20E 89 5.6W **¶16100871**
BJI II 22 14 09 47.2 22.21N 143.92E 95 5.5b,5.3b
ISCJB II 22 14 09 48.4–.35 22.21N–.02 143.86E–.01 101–3 5.5b,5.3b
NEIC II 22 14 09 50.8–.09 22.11N 143.84E 113 5.6b,5.5W
GCMT II 22 14 09 50.8–.10 22.23N 143.98E 106–1 5.5W,5.5W
MOS II 22 14 09 50.6–1.0 22.15N 143.72E 124 5.4b,4.5s
IDC II 22 14 09 50.9–.42 22.15N 143.82E 115–3 5.4,5.1
JMA II 22 14 09 51.9–.20 22.57N 144.24E 120–2 5.8,5.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ49.00000°,λ129.00000°. NP2:ϕ_s325.00000°,δ54.00000°,λ55.00000°. M_o2.71000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.2km az=149.7.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.5km az=126.0. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$-0.88 $M_{\phi\phi}$-2.11 $M_{r\theta}$-0.69 $M_{\theta\phi}$0.65 Best double couple: NP1:ϕ_s23.00000°,δ20.00000°,λ23.00000°. NP2:ϕ_s272.00000° ,δ82.00000°,λ109.00000°. Principal axes: T 2.8500,Plg49.0000°,Azm202.0000° ; N -1.0900,Plg19.0000°,Azm89.0000°; P -1.7600,Plg35.0000°,Azm345.0000° M_o2.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c201; s127,c296;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.52±.03 $M_{\theta\theta}$0.40±.04; $M_{\phi\phi}$-0.92±.04; $M_{r\theta}$-2.26±.02; $M_{\theta\phi}$-0.52±.03; $M_{\phi r}$0.67±.02; Best double couple: NP1: ϕ_s104.00000°,δ90.00000°,λ-94.00000°. NP2:ϕ_s10.00000°,δ4.00000°,λ-4.00000°. Principal axes: T 2.9110,Plg45.0000°,Azm198.0000°; N -1.1030,Plg4.0000°,Azm104.0000° ; P -1.8090,Plg45.0000°,Azm11.0000° M_o2.36000×10^{17}
MOS Error ellipse: s-maj=6.5km s-min=3.8km az=100.9.
IDC Error ellipse: s-maj=9.3km s-min=5.5km az=87.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
(162) South Island
ISC II 22 14 30 13.4–.98 43.62S–.04 172.80E–.04 9–6 4.1b,3.6s 180 0-153
ISCJB II 22 14 30 12.1–.58 43.65S–.03 172.83E–.04 10–4 4.4b,3.6s **¶16136358**
NEIC II 22 14 30 13.8 43.63S 172.73E 9 4.1W,3.6s
IDC II 22 14 30 14.2–1.4 43.39S 172.62E 0 4.3,4.2
WEL II 22 14 30 15.1–.13 43.60S 172.67E 3–1 4.6L,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.1km az=136.8.
NEIC Event type se. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.28 $M_{\theta\theta}$1.79 $M_{\phi\phi}$-1.51 $M_{r\theta}$-0.11 $M_{\theta\phi}$-1.03 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s330.00000° ,δ79.00000°,λ-12.00000°. NP2:ϕ_s62.00000°,δ78.00000°,λ-169.00000°. Principal axes: T 2.0900,Plg1.0000°,Azm16.0000°; N -0.1400,Plg74.0000°,Azm108.0000° ; P -1.9400,Plg16.0000°,Azm286.0000° M_o2.00000×10^{15}
IDC Error ellipse: s-maj=46.0km s-min=13.9km az=157.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(162) South Island
WEL II 22 14 35 08.3–.14 43.59S 172.68E 8–0 4.0L
¶16160399
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL II 22 15 44 48.3–.08 43.58S 172.63E 9–0 4.0L
NEIC II 22 15 44 48.0 43.58S 172.66E 10 4.0L **¶16160405**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
(162) South Island
ISC II 22 17 00 19.8–.82 43.60S–.03 172.73E–.03 11–5 4.6b,3.4s 195 0-153
ISCJB II 22 17 00 18.0–.53 43.65S–.03 172.81E–.04 8–4 4.6b,3.4s **¶16155394**
IDC II 22 17 00 19.4–1.4 43.38S 172.68E 0 4.4,4.2b
WEL II 22 17 00 20.9–.13 43.59S 172.65E 6–1 4.6L,4.2b
NEIC II 22 17 00 20.4 43.60S 172.71E 7 4.7b,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.8km az=138.7.
IDC Error ellipse: s-maj=45.0km s-min=14.6km az=157.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 7.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.09 $M_{\theta\theta}$2.63 $M_{\phi\phi}$-1.54 $M_{r\theta}$0.10 $M_{\theta\phi}$-1.43 $M_{\phi r}$-0.93 Best double couple: NP1:ϕ_s327.00000°,δ72.00000°,λ-27.00000°. NP2:ϕ_s66.00000° ,δ64.00000°,λ-160.00000°. Principal axes: T 3.1100,Plg5.0000°,Azm18.0000° ; N -0.5900,Plg58.0000°,Azm116.0000°; P -2.5100,Plg32.0000°,Azm285.0000° M_o2.90000×10^{15}
(162) South Island
ISC II 22 19 30 20.2–.90 43.57S–.03 172.69E–.04 7–5 4.1b,3.4s 57 0-149
ISCJB II 22 19 30 19.1–.55 43.63S–.03 172.72E–.05 10–3 4.3b,3.4s **¶16160408**
NEIC II 22 19 30 20.5 43.60S 172.68E 5 4.7b,4.2L
WEL II 22 19 30 20.9–.16 43.60S 172.63E 5–1 4.6L,4.2L
IDC II 22 19 30 21.4–1.6 43.25S 172.44E 0 4.2,4.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.0km az=39.6.
NEIC Event type fe. Felt at Wellington. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
IDC Error ellipse: s-maj=44.8km s-min=13.8km az=148.0.
(162) South Island
WEL II 22 19 43 06.7–.15 43.59S 172.60E 8–1 3.7L
¶602734546
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(460) Wyoming
ISC II 22 20 35 46.3–.73 43.78N–.03 105.30W–.03 0 70 1-90
ISCJB II 22 20 35 45.7–.27 43.77N–.02 105.33W–.03 0 3.7b **¶17192727**
IDC II 22 20 35 45.9–1.7 43.77N 105.41W 0 3.7b,3.5
NEIC II 22 20 35 46.2–.40 43.79N 105.26W 0 3.1L,3.5
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.7km s-min=2.3km az=154.4.
IDC Error ellipse: s-maj=46.9km s-min=8.6km az=148.0.
NEIC Event type fm. Error ellipse: s-maj=6.2km s-min=5.5km az=156.0. 59 km [37 miles] SSE of Gillette. Suspected Mining explosion.
(162) South Island
WEL II 22 20 52 48.7–.12 43.60S 172.63E 5 3.9L
¶16160410

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(90) Puerto Rico region

ISC	**II**	**22 20 54 31.7–.70**	**19.38N–.05**	**66.31W–.04**	**19**	**3.8b**	**52**	**1-72**
IDC	II	22 20 54 28.6–.86	19.44N	66.25W	0	4.1,3.7		**¶16117328**
ISCJB	II	22 20 54 30.2–.54	19.47N–.03	66.32W–.05	19	3.8b,3.5s		
RSPR	II	22 20 54 33.8	19.32N	66.37W	74–14	3.8,3.5s		
NEIC	II	22 20 54 33.8	19.32N	66.37W	74	3.9b,3.8		

ISC Event type fe.
IDC Error ellipse: s-maj=30.1km s-min=14.8km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=161.2.
RSPR Event type ke.
NEIC Event type fe. Felt [III] at San Juan. After RSPR.
(162) South Island

WEL	**II**	**22 21 10 15.1–.11**	**43.56S**	**172.74E**	**8–0**	**3.6L**	
							¶16160411

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island

WEL	**II**	**23 00 59 17.2–.08**	**43.59S**	**172.65E**	**4–0**	**4.2L**	
NEIC	II	23 00 59 17.0	43.58S	172.66E	4	4.2L	**¶16160416**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
(162) South Island

WEL	**II**	**23 01 23 51.6–.07**	**43.59S**	**172.65E**	**6–0**	**3.5L**	
							¶16160417

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island

WEL	**II**	**23 01 31 37.4–.10**	**43.59S**	**172.72E**	**8–0**	**3.9L**	
NEIC	II	23 01 31 36.7	43.57S	172.79E	5	3.9L	**¶16160418**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
(162) South Island

WEL	**II**	**23 02 22 10.8–.10**	**43.53S**	**172.71E**	**9–0**	**3.9L**	
NEIC	II	23 02 22 10.6	43.54S	172.72E	9	3.9L	**¶16160419**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
(162) South Island

WEL	**II**	**23 02 43 20.5–.08**	**43.59S**	**172.64E**	**8–0**	**4.0L**	
NEIC	II	23 02 43 20.4	43.60S	172.65E	5	4.0L	**¶16160420**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
(74) Near coast of Nicaragua

ISC	**II**	**23 03 01 38.4–.39**	**12.57N–.03**	**87.69W–.03**	**60–3**	**5.3b,5.0s**	**1137**	**1-163**
MOS	II	23 03 01 33.4–1.4	12.42N	87.74W	33	5.6b,4.7s		**¶16117338**
GCMT	II	23 03 01 36.4–.10	12.30N	88.08W	51–0	5.6W,4.7s		
NEIC	II	23 03 01 36.4–.24	12.39N	87.82W	41	5.7,5.7W		
IDC	II	23 03 01 36.2–1.5	12.86N	87.16W	37–11	4.8,4.8		
CASC	II	23 03 01 37.7–2.0	12.48N	87.78W	56–26	5.5b,5.3L		
ISCJB	II	23 03 01 37.9–.23	12.54N–.02	87.72W–.02	71–2	5.2b,5.3L		
BJI	II	23 03 01 40.1	12.50N	87.70W	64	5.5s,5.4		

ISC Event type fe.
MOS Error ellipse: s-maj=11.8km s-min=4.9km az=110.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c241; s119,c299;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.34±.04 $M_{\theta\theta}$-2.69±.03; $M_{\phi\phi}$-0.64±.04; $M_{r\theta}$0.38±.03; $M_{\theta\phi}$1.76±.03; $M_{\phi r}$-0.33±.03; Best double couple: NP1: ϕ_s122.00000°,δ49.00000°,λ92.00000°. NP2:ϕ_s298.00000°,δ41.00000°,λ87.00000°. Principal axes: T 3.3770,Plg86.0000°,Azm54.0000°; N 0.3660,Plg2.0000°,Azm300.0000° ; P -3.7370,Plg4.0000°,Azm210.0000° $M_0$3.55700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=210.0. Felt [IV] at Chinandega, [III] at Leon and [II] at Managua. Felt widely in the Chinandega-Managua area and as far as Bonanza. Felt [III] at San Salvador and [II] at Concepcion de Ataco and Mejicanos, El Salvador. Felt in much of El Salvador and at Ciudad Choluteca, Honduras. Moment Tensor Solution. s55 Moment tensor: Scale 10^{17}Nm; M_{rr}3.67 $M_{\theta\theta}$-1.27 $M_{\phi\phi}$-2.40 $M_{r\theta}$0.16 $M_{\theta\phi}$2.34 $M_{\phi r}$-0.23 Best double couple: NP1:ϕ_s142.00000°,δ47.00000°,λ90.00000°. NP2:ϕ_s321.00000° ,δ43.00000°,λ89.00000°. Principal axes: T 3.6800,Plg88.0000°,Azm62.0000° ; N 0.5700,Plg0.0000°,Azm322.0000°; P -4.2500,Plg2.0000°,Azm232.0000° $M_0$4.00000×10^{17}
IDC Error ellipse: s-maj=18.7km s-min=8.2km az=55.0.
CASC Error ellipse: s-maj=9.0km s-min=5.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.0km az=36.2.
(162) South Island

WEL	**II**	**23 03 19 16.8–.11**	**43.59S**	**172.64E**	**6–0**	**3.5L**	
							¶602336839

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(162) South Island

WEL	**II**	**23 04 44 14.1–.20**	**43.58S**	**172.66E**	**4–0**	**3.5L**	
							¶602336874

WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(36) Northern California

ISC	**II**	**23 04 49 41.2–.72**	**39.49N–.03**	**122.96W–.06**	**7**	**4.1b**	**53**	**0-136**
BJI	II	23 04 49 37.8	39.50N	123.00W	15	4.5b		**¶16117345**
IDC	II	23 04 49 39.9–1.6	39.42N	123.00W	0	3.7,3.5		
ISCJB	II	23 04 49 40.0–.49	39.44N–.03	122.95W–.06	7	4.1b,3.5s		
NEIC	II	23 04 49 41.5	39.50N	122.95W	13	4.3W,4.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=8.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.7km az=174.3.
NEIC Event type fe. Felt [II] at Fort Bragg, Lakeport, Potter Valley, Redwood Valley, Ukiah and Willits. Also felt at Comptche, Elk, Mendocino, Orland, Philo, Santa Rosa and Vacaville. After NCEDC. Moment Tensor Solution. $M_0$3.40000×10^{15}
(162) South Island

WEL	**II**	**23 05 39 42.4–.10**	**43.52S**	**172.70E**	**11–0**	**4.1L**	
							¶16160421

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(162) South Island

WEL	**II**	**23 05 54 56.4–.12**	**43.58S**	**172.66E**	**7–0**	**3.2L**	
							¶602336888

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(218) Near east coast of Kamchatka Peninsula

ISC	**II**	**23 06 48 44.6–.50**	**53.52N–.03**	**160.49E–.04**	**96–4**	**4.7b**	**477**	**1-144**
KRSC	II	23 06 48 40.5–.93	53.43N	160.83E	94–15	5.0L		**¶16117350**
BJI	II	23 06 48 41.8	53.83N	160.44E	92	5.0b,4.9b		
MOS	II	23 06 48 43.2–1.2	53.54N	160.38E	99	4.8b,4.9b		
ISCJB	II	23 06 48 43.9–.24	53.56N–.02	160.42E–.04	101–1	4.7b,4.9b		
NEIC	II	23 06 48 45.4–.45	53.62N	160.34E	98–4	4.6b,4.9b		
IDC	II	23 06 48 45.8–.55	53.59N	160.35E	104–4	4.7,4.4		

ISC Event type fe.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=3.7km az=86.5. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.2km az=41.1.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=161.0. Felt [II] at Petropavlovsk-Kamchatskiy.
IDC Error ellipse: s-maj=10.8km s-min=5.9km az=157.0.
(162) South Island

WEL	**II**	**23 08 54 37.6–.10**	**43.60S**	**172.64E**	**5–0**	**3.9L**	
							¶16160422

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(162) South Island

WEL	**II**	**23 09 13 44.0–.17**	**43.58S**	**172.65E**	**7–0**	**3.5L**	
							¶602336937

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island

WEL	**II**	**23 09 45 57.5–.09**	**43.54S**	**172.70E**	**6–0**	**3.6L**	
							¶16160423

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(135) Near coast of central Chile

ISC	**II**	**23 10 46 48.6–.65**	**36.10S–.06**	**73.51W–.08**	**35**	**4.3b,3.9s**	**30**	**1-159**
IDC	II	23 10 46 44.6–.92	36.04S	73.32W	0	4.2,4.2L		**¶16155402**
NEIC	II	23 10 46 45.0	36.19S	73.69W	21	4.5L,4.4b		
GUC	II	23 10 46 45.2–.50	36.19S	73.69W	21–5	4.5L,4.4b		
ISCJB	II	23 10 46 46.9–.50	36.13S–.06	73.52W–.07	33	4.1b,3.9s		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Talcahuano. After GUC.
ISCJB Event type fe.
(135) Near coast of central Chile

ISC	**II**	**23 11 03 54.6–.48**	**36.12S–.06**	**73.38W–.08**	**35**	**4.5b,3.8s**	**64**	**0-174**
IDC	II	23 11 03 50.2–.80	36.07S	73.38W	0	4.4,4.4L		**¶16155403**
ISCJB	II	23 11 03 52.8–.44	36.17S–.05	73.48W–.06	33	4.5b,3.7s		
GUC	II	23 11 03 52.8–.56	36.17S	73.49W	50–5	4.8L,3.7s		
BJI	II	23 11 03 53.2	37.02S	72.81W	35	5.6s,5.3		
NEIC	II	23 11 03 54.7–2.8	36.16S	73.42W	34–19	4.8L,4.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=28.7km s-min=21.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.1km az=136.8.
GUC Error ellipse: s-maj=7.0km s-min=10.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.7km s-min=7.5km az=80.0. Felt [III] at Cobquecura and Concepcion; [II] at Chiguayante, Penco, San Pedro de la Paz and Talcahuano. Also felt at Tome.
(162) South Island

WEL	**II**	**23 11 12 56.1–.12**	**43.55S**	**172.71E**	**8–0**	**4.1L**	
NEIC	II	23 11 12 55.6	43.57S	172.75E	8	4.1L	**¶16160424**

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
(162) South Island

WEL	**II**	**23 13 41 01.9–.21**	**43.55S**	**172.76E**	**7–1**	**3.6L**	
							¶16160425

WEL Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=90.0. Felt in the Canterbury region.
(162) South Island

WEL	**II**	**23 13 46 17.3–.07**	**43.59S**	**172.51E**	**5**	**3.5L**	
							¶602336981

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(470) Southern Ontario

OTT	**II**	**23 14 21 32.4–.13**	**42.16N**	**82.43W**	**5**	**3.0**	
NEIC	II	23 14 21 32.4	42.16N	82.43W	5	3.0	**¶16136369**

OTT Event type fe. Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0. 14km northeast from Leamington, On, Felt Felt in the Wheatley area Eastern Background Seismic Zone.
NEIC Event type fe. Felt [III] in the Chatham-Essex-Kingsville area. After OTT.
(162) South Island

WEL	**II**	**23 14 49 05.5–.09**	**43.59S**	**172.53E**	**9–1**	**3.6L**	
							¶16160426

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
(734) Laos

ISC	**II**	**23 15 53 16.0–.94**	**18.78N–.03**	**101.73E–.02**	**12–6**	**4.6b,3.8s**	**196**	**1-94**
BJI	II	23 15 53 12.7	18.61N	101.78E	10	4.8b,4.6L		**¶16152143**
IDC	II	23 15 53 13.7–.56	18.86N	101.75E	0	5.2L,4.4		
ISCJB	II	23 15 53 15.6–.68	18.77N–.02	101.73E–.02	21–5	4.5b,3.7s		
NEIC	II	23 15 53 16.3–.34	18.92N	101.73E	10	4.6b,3.7s		
BKK	II	23 15 53 16.7–.60	19N–3.0	102E–2.0	21–8	5.6b,5.4		
MOS	II	23 15 53 17.0–.96	18.80N	101.75E	33	4.8b,5.4		
PLV	II	23 15 53 18.1–.75	18.87N	101.98E	2–3	4.4L,5.4		

ISC Event type fe.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=175.3.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.8km az=55.0. Felt [II] at Phonhong and Vientiane. Felt [IV] at Nam Som, [III] at Nong Khai and [II] at Udon Thani, Thailand. Also felt at Khon Kaen, Nan, Pong and Tha Bo.
MOS Error ellipse: s-maj=9.5km s-min=6.4km az=117.1.
PLV Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.
(135) Near coast of central Chile

ISC	**II**	**23 17 05 00.1–.00**	**36.26S–.07**	**73.46W–.09**	**35**	**3.8b**	**14**	**1-94**
IDC	II	23 17 04 55.7–1.2	36.23S	73.44W	0	4.2L,4.1		**¶16349991**
GUC	II	23 17 04 57.6–.39	36.25S	73.62W	8–2	4.3L,4.1		
ISCJB	II	23 17 04 59.0–.74	36.30S–.06	73.50W–.08	35	4.0s,3.8b		
NEIC	II	23 17 04 58.2–7.2	36.18S	73.33W	15–46	4.3L,3.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=41.0km s-min=20.1km az=69.0.
GUC Error ellipse: s-maj=1.6km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=7.7km az=144.8.
NEIC Event type fe. Error ellipse: s-maj=28.9km s-min=12.6km az=82.0. Felt [IV] at Cobquecura and [III] at Concepcion, Coronel, Penco, San Pedro de la Paz, Talcahuano and Tome.
(162) South Island

WEL	**II**	**23 20 20 12.6–.18**	**43.55S**	**172.75E**	**6–1**	**3.6L**	
							¶16160428

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island

ISC	**II**	**23 20 44 31.9–.96**	**43.61S–.04**	**172.72E–.04**	**12–6**	**3.6s**	**92**	**0-149**
ISCJB	II	23 20 44 31.6–.49	43.63S–.04	172.72E–.05	14–3	3.6s,3.5b		**¶16160429**
IDC	II	23 20 44 32.9–1.9	43.36S	172.57E	0	3.9,3.7		
NEIC	II	23 20 44 32.9	43.59S	172.65E	6	4.4L,3.7		
WEL	II	23 20 44 33.0–.12	43.60S	172.63E	6–0	4.4L,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=3.6km az=135.9.
IDC Error ellipse: s-maj=48.5km s-min=15.2km az=154.0.
NEIC Event type fe. Felt strongly in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
(162) South Island

WEL	**II**	**23 20 52 19.9–.09**	**43.60S**	**172.65E**	**11–0**	**4.0L**	
NEIC	II	23 20 52 18.9	43.64S	172.74E	10	4.0L	**¶16160430**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
(211) Southeast of Honshu

ISC	**II**	**23 22 14 04.3–.30**	**31.45N–.03**	**140.28E–.03**	**98–2**	**5.3b**	**1434**	**2-164**
BJI	II	23 22 13 56.7	31.31N	140.96E	96	5.2b,4.9b		**¶16155409**
NIED	II	23 22 14 00	31.50N	140.70E	80	5.4W,4.9b		
JMA	II	23 22 14 02.4–.20	31.46N	140.67E	80–5	5.2,4.9b		
ISCJB	II	23 22 14 03.2–.31	31.42N–.02	140.25E–.02	97–2	5.3b,4.9b		
IDC	II	23 22 14 03.5–.79	31.36N	140.18E	94–6	5.2,5.0		
MOS	II	23 22 14 03.0–.84	31.51N	140.18E	93	5.5b,4.5s		
NEIC	II	23 22 14 05.7–.65	31.46N	140.15E	107–5	5.3b,4.5s		
GCMT	II	23 22 14 05.7–.10	31.46N	140.45E	90–1	5.4W,4.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ43.00000°,λ-52.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ-120.00000°. $M_0$1.41000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.3km az=164.7.
IDC Error ellipse: s-maj=10.5km s-min=6.3km az=70.0.
MOS Error ellipse: s-maj=6.9km s-min=3.8km az=102.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=128.0. Recorded [1 JMA] on Aogo-shima and Hachijo-jima. Also recorded [1 JMA] in Chiba, Honshu.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c202; s115,c234; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.01±.02; $M_{\phi\phi}$-0.98±.02; $M_{r\theta}$0.67±.02; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$1.29±.01; Best double couple: NP1:ϕ_s225.00000°,δ89.00000° ,λ-126.00000°. NP2:ϕ_s133.00000°,δ36.00000°,λ-1.00000°. Principal axes: T 1.4100,Plg34.0000°,Azm345.0000°; N 0.5850,Plg36.0000°,Azm225.0000° ; P -1.9990,Plg36.0000°,Azm104.0000° $M_0$1.70500×10^{17}

(162) South Island

WEL II 23 22 58 23.8–.26 43.59S 172.75E 11–0 3.5L ¶602337077

WEL Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 23 23 22 52.8–.15 43.57S 172.71E 9–0 3.7L ¶16160431

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 00 00 25.8–.47 43.66S 172.74E 8–1 3.5L ¶602337112

WEL Event type fe. Error ellipse: s-maj=5.4km s-min=1.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 00 02 15.9–.28 43.56S 172.71E 7–1 3.3L ¶16160432

WEL Event type fe. Error ellipse: s-maj=5.4km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 01 18 52.2–.12 43.61S 172.63E 4–1 3.6L ¶16160433

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(226) Near west coast of eastern Honshu

ISC	**II**	**24 02 11 31.9–1.5**	**40.94N–.03**	**139.18E–.04**	**13–10**	**3.6b**	**36**	**1-89**
NIED	II	24 02 11 00	40.90N	139.00E	5	3.8W		**¶17192765**
IDC	II	24 02 11 30.2–1.2	40.99N	139.14E	0	3.8,3.6		
ISCJB	II	24 02 11 31.7–.81	40.93N–.03	139.10E–.04	24–6	3.6b,2.8s		
JMA	II	24 02 11 32.4–.10	40.90N	139.12E	29–2	4.1,2.8s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ57.00000°,λ-6.00000°. NP2:ϕ_s249.00000°,δ85.00000°,λ-146.00000°. $M_0$5.41000×10^{14}

IDC Error ellipse: s-maj=31.6km s-min=20.4km az=147.0.

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.6km az=155.9.

JMA Event type fe.

(162) South Island

WEL II 24 02 35 55.0–.07 43.59S 172.60E 2 3.7L ¶16160437

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 02 54 30.4–.15 43.58S 172.65E 8–0 3.5L ¶602337136

WEL Event type fe. Error ellipse: s-maj=2.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(173) Tonga Islands

ISC	**II**	**24 03 01 16.6–.28**	**17.82S–.05**	**174.42W–.04**	**123–2**	**5.3b**	**1262**	**4-175**
MOS	II	24 03 01 10.1–1.0	17.58S	174.49W	71	5.6b,4.3s		**¶16168914**
BJI	II	24 03 01 15.6	17.15S	174.18W	113	5.4b,5.3b		
ISCJB	II	24 03 01 15.1–.09	17.80S–.03	174.46W–.02	121	5.3b,5.3b		
NEIC	II	24 03 01 16.5–.08	17.81S	174.43W	122	5.6W,5.3b		
IDC	II	24 03 01 16.9–.47	17.76S	174.42W	124–4	5.2,5.0		
GCMT	II	24 03 01 16.5–.10	17.68S	174.04W	131–0	5.4W,5.0		

ISC Event type fe.

MOS Error ellipse: s-maj=8.4km s-min=6.7km az=55.2.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.3km az=149.8.

NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.2km az=142.0. Felt at Neiafu. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.91 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$2.16 $M_{r\theta}$-0.72 $M_{\theta\phi}$1.55 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s63.00000°,δ85.00000°,λ-28.00000°. NP2: ϕ_s155.00000°,δ62.00000°,λ-175.00000°. Principal axes: T 3.0700,Plg16.0000° ,Azm112.0000°; N -1.0800,Plg62.0000°,Azm234.0000°; P -1.9900,Plg23.0000° ,Azm16.0000° $M_0$2.70000×10^{17}

IDC Error ellipse: s-maj=13.6km s-min=10.6km az=132.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c192; s128,c253;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.02 $M_{\theta\theta}$0.18±.02; $M_{\phi\phi}$0.14±.02; $M_{r\theta}$-0.57±.02; $M_{\theta\phi}$0.26±.02; $M_{\phi r}$-1.45±.01; Best double couple: NP1:ϕ_s22.00000° ,δ84.00000°,λ-97.00000°. NP2:ϕ_s253.00000°,δ9.00000°,λ-39.00000°. Principal axes: T 1.6090,Plg39.0000°,Azm119.0000°; N -0.0080,Plg7.0000°,Azm23.0000° ; P -1.6010,Plg50.0000°,Azm284.0000° $M_0$1.60500×10^{17}

(135) Near coast of central Chile

ISC	**II**	**24 04 36 53.9–.33**	**36.08S–.04**	**73.31W–.07**	**35**	**4.9b,4.5s**	**304**	**1-178**
NEIC	II	24 04 36 48.0	36.27S	73.81W	33	5.0b,4.8L		**¶16153246**
GUC	II	24 04 36 48.7–.53	36.27S	73.81W	33–19	4.8L,4.8L		
GCMT	II	24 04 36 48.0–.30	36.29S	73.82W	20–1	5.1W,4.8L		
IDC	II	24 04 36 48.5–.78	36.07S	73.39W	0	4.8,4.7		
BJI	II	24 04 36 50.5	35.55S	73.39W	24	5.4,5.4b		
MOS	II	24 04 36 51.1–1.2	36.17S	73.30W	25	5.0b,5.4b		
ISCJB	II	24 04 36 51.7–.19	36.14S–.03	73.29W–.06	33	4.9b,4.5s		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Concepcion, Quirihue, Talcahuano and Tome; [III] at Chiguayante, Penco and San Pedro de la Paz. Also felt at Arauco. After GUC.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c45; s62,c75;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.06±.25 $M_{\theta\theta}$0.63±.15; $M_{\phi\phi}$-3.69±.18; $M_{r\theta}$2.67±.40; $M_{\theta\phi}$-0.02±.10; $M_{\phi r}$-3.35±.35; Best double couple: NP1:ϕ_s152.00000°,δ73.00000°,λ69.00000°. NP2:ϕ_s24.00000°,δ27.00000°,λ139.00000°. Principal axes: T 5.6770,Plg57.0000°,Azm34.0000°; N -0.4160,Plg20.0000°,Azm159.0000° ; P -5.2610,Plg25.0000°,Azm258.0000° $M_0$5.46900×10^{16}

ISCJB Event type fe.

(502) Arkansas

ISC	**II**	**24 04 43 16.8–.88**	**35.28N–.02**	**92.35W–.02**	**6–6**		**96**	**0-8**
ISCJB	II	24 04 43 16.7–.47	35.27N–.02	92.34W–.02	5–3			**¶16155412**
NEIC	II	24 04 43 17.0	35.29N	92.34W	5	2.5		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=170.9.

NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Quitman. After CERI.

(228) Near east coast of eastern Honshu

ISC	**II**	**24 05 36 44.5–.86**	**36.29N–.06**	**140.05E–.06**	**80–6**	**3.5b**	**29**	**0-74**
NIED	II	24 05 36 00	36.30N	140.00E	71	3.8W		**¶17192772**
ISCJB	II	24 05 36 43.5–.62	36.28N–.05	140.06E–.06	86–3	3.4b		
JMA	II	24 05 36 45.4	36.30N	140.02E	73–1	3.6		
IDC	II	24 05 36 46.3–2.3	36.31N	139.95E	96–19	3.6,3.4		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ35.00000°,λ89.00000°. NP2:ϕ_s11.00000°,δ55.00000°,λ91.00000°. $M_0$4.77000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.8km az=143.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s0.00000°,δ60.00000°,λ83.00000°. NP2:ϕ_s193.00000°,δ30.00000°,λ101.00000°. Principal axes: T Plg74.0000°,Azm253.0000°; N Plg6.0000°,Azm3.0000°; P Plg15.0000° ,Azm95.0000°

IDC Error ellipse: s-maj=26.0km s-min=21.0km az=75.0.

(162) South Island

WEL	**II**	**24 05 51 33.4–.11**	**43.54S**	**172.70E**	**6–0**	**4.1L**		
NEIC	II	24 05 51 32.0	43.58S	172.62E	10	4.0L		**¶16160439**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

NEIC Event type fe. Felt at Christchurch. After WEL.

(162) South Island

WEL II 24 05 56 04.9–.29 43.57S 172.73E 7–1 3.5L ¶602337150

WEL Event type fe. Error ellipse: s-maj=3.0km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 07 07 45.3–.11 43.58S 172.65E 7–0 3.6L ¶16160440

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 07 56 26.3–.12 43.57S 172.63E 8–0 3.5L ¶602337161

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(162) South Island

WEL II 24 08 25 17.9–.13 43.58S 172.66E 6–0 3.7L ¶16160441

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 10 48 00.4–.27 43.54S 172.74E 6–1 3.7L ¶16160442

WEL Event type fe. Error ellipse: s-maj=3.1km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL II 24 11 35 50.8–.15 43.60S 172.60E 7–1 3.8L ¶16160443

WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(502) Arkansas

ISC	**II**	**24 12 18 48.7–1.4**	**35.29N–.03**	**92.35W–.03**	**2–11**		**68**	**1-5**
NEIC	II	24 12 18 49.5	35.30N	92.35W	4	2.8		**¶16425205**

ISC Event type fe.

NEIC Event type fe. Felt at Greenbrier and Quitman. After CERI.

(502) Arkansas

ISC	**II**	**24 15 07 10.5–.87**	**35.28N–.02**	**92.34W–.02**	**13–6**		**123**	**0-20**
NEIC	II	24 15 07 11.0	35.27N	92.33W	4	3.1,2.7		**¶16160041**

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Greenbrier. Also felt at Quitman and Rose Bud. After CERI.

(162) South Island

WEL	**II**	**24 16 27 35.6–.20**	**43.58S**	**172.64E**	**4–1**	**3.9L**		
NEIC	II	24 16 27 35.1	43.57S	172.69E	3	3.8L		**¶16160444**

WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

(502) Arkansas

ISC	**II**	**24 17 28 12.9–1.3**	**35.27N–.03**	**92.35W–.04**	**9–11**		**39**	**0-3**
NEIC	II	24 17 28 13.0	35.26N	92.35W	4	2.5		**¶16425206**

ISC Event type fe.

NEIC Event type fe. Felt at Cabot, Greenbrier and Jacksonville. After CERI.

(2) Southern Alaska

ISC	**II**	**24 17 42 32.6–.78**	**61.38N–.03**	**150.40W–.03**	**57–7**	**3.6b**	**111**	**0-76**
ISCJB	II	24 17 42 31.7–.19	61.38N–.02	150.38W–.04	69–3	3.6b		**¶16342395**
IDC	II	24 17 42 32.8–2.1	61.40N	150.57W	64–18	3.7,3.7		
NEIC	II	24 17 42 33.6	61.38N	150.39W	49	3.6L,3.7		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=145.0.

IDC Error ellipse: s-maj=20.3km s-min=14.4km az=90.0.

NEIC Event type fe. Felt [IV] at Anchorage. Also felt at Chugiak, Eagle River and Palmer. After AEIC.

(39) Central California

ISC	**II**	**24 20 05 47.1–.83**	**36.03N–.02**	**118.34W–.03**	**7**		**33**	**0-6**
ISCJB	II	24 20 05 47.0–.37	36.03N–.03	118.34W–.03	7			**¶16342398**
NEIC	II	24 20 05 47.5	36.04N	118.36W	1	3.5L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.5km az=29.7.

NEIC Event type fe. Felt at Delano. After PAS.

(162) South Island

WEL II 24 20 34 58.5–.18 43.58S 172.71E 7–0 3.8L ¶602734554

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(613) Hawaiian Islands

NEIC II 25 00 12 33.0 21.18N 157.55W 19 3.6L,3.6L ¶16158857

NEIC Event type fe. Felt [III] at Honolulu, Kailua, Kane'ohe and Marine Corps Base Hawaii; [II] at 'Aiea, Camp Smith, Ewa Beach, Kapolei, Mililani Town, Waimanalo and Waipahu. Felt [III] at Kualapu'u and [II] at Kaunakakai, Moloka'i and [II] at Makawao, Maui. Felt on Lana'i and in much of O'ahu, Moloka'i and Maui. After HON.

(162) South Island

WEL II 25 02 07 10.2–.25 43.57S 172.81E 12 3.6L ¶16160454

WEL Event type fe. Error ellipse: s-maj=2.9km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

ISC	**II**	**25 04 40 10.0–1.1**	**43.55S–.04**	**172.72E–.04**	**9–7**	**4.5b,3.5s**	**106**	**0-153**
ISCJB	II	25 04 40 09.1–.67	43.63S–.04	172.76E–.06	14–4	4.5b,3.5s		**¶16160455**
IDC	II	25 04 40 10.5–1.4	43.33S	172.54E	0	4.4,4.1		
NEIC	II	25 04 40 10.8	43.58S	172.66E	6	4.9b,4.7L		
WEL	II	25 04 40 11.1–.09	43.58S	172.63E	7–0	4.7L,4.7L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=3.6km az=136.1.

IDC Error ellipse: s-maj=46.0km s-min=13.7km az=155.0.

NEIC Event type fe. Felt widely in the Christchurch area. After WEL.

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(162) South Island

WEL II 25 06 14 49.4–.10 43.62S 172.67E 10–0 4.3L
NEIC II 25 06 14 49.2 43.61S 172.68E 9 4.3L **¶16160456**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

NEIC Event type fe. Felt in the Christchurch area. After WEL.

(502) Arkansas

ISC	**II**	**25 09 49 00.7–.80**	**35.27N–.02**	**92.35W–.02**	**9–6**		**284**	**0-20**
ISCJB	II	25 09 48 59.8–.41	35.29N–.01	92.39W–.01	3–3			**¶16158495**
IDC	II	25 09 49 00.0–1.0	35.28N	92.35W	0	3.9L,3.7		
NEIC	II	25 09 49 01.4	35.28N	92.37W	6	3.6,3.5W		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.8km az=149.6.

IDC Error ellipse: s-maj=17.3km s-min=9.5km az=176.0.

NEIC Event type fe. Felt [III] at Greenbrier and [II] at Quitman. Also felt at Batesville, Conway, Mountain Home, Pangburn, Paris, Rogers and Sage. After CERI. Moment Tensor Solution. s17 Moment tensor: Scale 10^{14}Nm; M_{rr}0.40 $M_{\theta\theta}$1.50 $M_{\phi\phi}$-1.90 $M_{r\theta}$-0.79 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.41 Best double couple: NP1:ϕ_s310.00000°,δ65.00000°,λ15.00000°. NP2:ϕ_s214.00000° ,δ76.00000°,λ154.00000°. Principal axes: T 2.0100,Plg28.0000°,Azm169.0000° ; N 0.0000,Plg61.0000°,Azm8.0000°; P -2.0100,Plg8.0000°,Azm264.0000° $M_0$2.00000×10^{14}

(60) Oaxaca

ISC	**II**	**25 13 07 27.0–.24**	**17.82N–.03**	**95.17W–.03**	**131–1**	**5.6b**	**1757**	**1-167**
MOS	II	25 13 07 26.2–1.0	18.02N	94.99W	123	5.7b,5.1s		**¶16160043**
ISCJB	II	25 13 07 26.1–.17	17.94N–.01	95.06W–.01	129–1	5.6b,5.1s		
BJI	II	25 13 07 26.8	17.90N	95.00W	127	5.5b,5.2b		
GCMT	II	25 13 07 26.5–.10	17.98N	95.20W	128–0	6.0W,5.2b		
CASC	II	25 13 07 26.0–3.6	17.97N	94.98W	123	5.7b,5.5		
NEIC	II	25 13 07 26.5–.27	17.84N	95.01W	123–2	6.0,5.9W		
IDC	II	25 13 07 27.8–.38	17.90N	95.04W	135–3	5.6,5.3		
NEIC	II	25 13 07 28.0–.00	17.97N	94.98W	132	5.6,5.3		
MEX	II	25 13 07 28.2–3.0	17.69N	95.21W	135–11	6.0,5.3		

ISC Event type fe.

MOS Error ellipse: s-maj=6.4km s-min=3.7km az=99.7.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=135.2.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s137,c286; s139,c409;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06±.01 $M_{\theta\theta}$0.14±.01; $M_{\phi\phi}$0.91±.01; $M_{r\theta}$0.32±.01; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$-0.05±.01; Best double couple: NP1: ϕ_s318.00000°,δ52.00000°,λ-109.00000°. NP2:ϕ_s167.00000°,δ42.00000°,λ-68.00000°. Principal axes: T 1.2290,Plg5.0000°,Azm61.0000°; N -0.0870,Plg15.0000°,Azm330.0000°

; P -1.1460,Plg74.0000°,Azm169.0000° $M_0$1.18700×10^{18}
CASC Error ellipse: s-maj=128.9km s-min=120.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=219.0. Felt [IV] at Coatzacoalcos and Jalapa; [III] at Hualtulco, Mitla, Oaxaca and Puerto Escondido; [II] at Mexico, Puebla and Villahermosa. Felt widely in Chiapas, Morelos, Oaxaca, Puebla, Tabasco and Veracruz. Also felt in western Guatemala. Moment Tensor Solution. s38 Moment tensor: Scale 10^{17}Nm; M_{rr}-9.49 $M_{\theta\theta}$2.07 $M_{\phi\phi}$7.42 $M_{r\theta}$1.32 $M_{\theta\phi}$-2.71 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s329.00000° ,δ44.00000°,λ-102.00000°. NP2:ϕ_s166.00000°,δ47.00000°,λ-78.00000°. Principal axes: T 8.5600,Plg1.0000°,Azm248.0000°; N 1.1700,Plg8.0000°,Azm338.0000° ; P -9.7300,Plg81.0000°,Azm150.0000° $M_0$9.20000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=6.0km az=52.0.
NEIC Event type se. Moment Tensor Solution. s109 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.00 $M_{\theta\theta}$0.17 $M_{\phi\phi}$0.83 $M_{r\theta}$0.30 $M_{\theta\phi}$-0.36 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s322.00000° ,δ50.00000°,λ-108.00000°. NP2:ϕ_s169.00000°,δ43.00000°,λ-69.00000°. Principal axes: T 1.0000,Plg3.0000°,Azm65.0000°; N 0.0800,Plg13.0000°,Azm334.0000° ; P -1.0700,Plg75.0000°,Azm169.0000° $M_0$1.00000×10^{18}
MEX Error ellipse: s-maj=10.5km s-min=7.0km az=-1.0.

(502) Arkansas

ISC	**II**	**25 13 16 46.7–1.2**	**35.24N–.03**	**92.31W–.04**	**10–12**		**28**	**0-8**
NEIC	II	25 13 16 48.0	35.25N	92.35W	4	2.5		**¶601793600**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. After CERI.

(162) South Island

WEL	**II**	**25 16 49 37.3–.09**	**43.59S**	**172.54E**	**9–0**	**3.8L**	**¶16160457**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**II**	**25 17 52 28.4–.11**	**43.58S**	**172.60E**	**9–0**	**4.1L**		
NEIC	II	25 17 52 27.9	43.56S	172.67E	9	4.1L		**¶16160458**

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt strongly at Christchurch. After WEL.

(228) Near east coast of eastern Honshu

ISC	**II**	**25 19 12 30.4–.34**	**34.38N–.03**	**140.35E–.03**	**61–2**	**4.9b**	**537**	**0-153**
NIED	II	25 19 12 00	34.40N	140.40E	59	5.2W		**¶16158978**
MOS	II	25 19 12 27.9–.92	34.33N	140.25E	50	5.2b,4.3s		
BJI	II	25 19 12 29.2	34.30N	140.20E	67	5.0b,4.7b		
JMA	II	25 19 12 29.4–.20	34.44N	140.37E	56–2	5.0,4.7b		
ISCJB	II	25 19 12 29.2–.27	34.35N–.02	140.30E–.02	62–2	4.8b,4.7b		
NEIC	II	25 19 12 31.2–.16	34.33N	140.24E	67	4.9b,4.7b		
GCMT	II	25 19 12 31.2–.10	34.43N	140.42E	51–1	5.3W,4.7b		
IDC	II	25 19 12 31.4–.45	34.35N	140.23E	67–3	4.7,4.6		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ22.00000°,λ-145.00000°. NP2:ϕ_s46.00000°,δ78.00000°,λ-72.00000°. $M_0$8.10000×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.2km az=115.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s40.00000°,δ79.00000°,λ-85.00000°. NP2: ϕ_s197.00000°,δ12.00000°,λ-113.00000°. Principal axes: T Plg34.0000°,Azm126.0000° ; N Plg5.0000°,Azm219.0000°; P Plg56.0000°,Azm316.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.1km az=139.2.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.8km az=148.0. Felt [II] at Yokosuka. Also felt at Higashikurume, Mishima and Yokohama. Recorded [3 JMA] on Miyake-jima; [2 JMA] on Kozu-shima and O-shima; [1 JMA] on Mikura-jima, Nii-jima, Shikane-jima and To-shima. Also recorded [2 JMA] in Chiba, Kanagawa, Shizuoka and Tokyo; [1 JMA] in Gumma, Ibaraki, Nagano, Saitama and Yamanashi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c128; s100,c207; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.58±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$-0.63±.01; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$-0.50±.02; Best double couple: NP1:ϕ_s45.00000°,δ72.00000° ,λ-69.00000°. NP2:ϕ_s174.00000°,δ28.00000°,λ-137.00000°. Principal axes: T 1.1180,Plg24.0000°,Azm119.0000°; N -0.0800,Plg20.0000°,Azm218.0000° ; P -1.0380,Plg58.0000°,Azm344.0000° $M_0$1.07800×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=5.3km az=92.0.

(162) South Island

WEL	**II**	**25 20 23 34.0–.09**	**43.58S**	**172.65E**	**5–0**	**3.6L**	**¶602734555**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(274) Southern Sumatera

ISC	**II**	**25 22 08 37.6–.45**	**3.04S–.04**	**101.03E–.04**	**48–3**	**5.0b,3.9s**	**451**	**1-150**
BJI	II	25 22 08 36.3	2.92S	101.05E	49	5.1b,4.9b		**¶16158980**
MOS	II	25 22 08 36.7–.97	2.72S	101.29E	44	5.3b,4.9b		
NEIC	II	25 22 08 37.7–.65	3.05S	101.00E	50–5	5.1b,4.9b		
IDC	II	25 22 08 38.1–2.4	2.88S	101.14E	46–21	4.9,4.8L		
DJA	II	25 22 08 38.9–.40	3S–2.0	101E–2.0	30–4	5.2b,5.1		
ISCJB	II	25 22 08 38.3–.39	2.96S–.03	101.07E–.03	66–3	4.8b,5.1		
KLM	II	25 22 08 39.3	3.02S	100.99E	42	5.8s,5.1L		

ISC Event type fe.
MOS Error ellipse: s-maj=11.4km s-min=5.0km az=110.7.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=4.5km az=53.0. Felt [III] at Mukomuko.
IDC Error ellipse: s-maj=16.5km s-min=10.4km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.4km az=42.1.

(162) South Island

WEL	**II**	**26 01 07 15.2–.13**	**43.60S**	**172.64E**	**4–0**	**3.5L**	**¶16160461**

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**II**	**26 06 36 19.3–.27**	**43.50S**	**172.74E**	**7–1**	**3.6L**	**¶16160464**

WEL Event type fe. Error ellipse: s-maj=3.0km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**II**	**26 07 34 49.3–.58**	**37.13N–.04**	**141.62E–.06**	**40–5**	**4.0b**	**64**	**1-148**
NIED	II	26 07 34 00	37.20N	141.50E	38	3.9W		**¶16339060**
ISCJB	II	26 07 34 47.8–.71	37.12N–.03	141.61E–.06	45–6	4.0b,2.8s		
IDC	II	26 07 34 49.5–.56	37.11N	141.60E	40–4	3.9,3.9L		
JMA	II	26 07 34 49.8–.10	37.16N	141.45E	48–1	3.9,3.9L		
NEIC	II	26 07 34 50.6–.70	37.06N	141.57E	55–6	4.5b,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ18.00000°,λ80.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ93.00000°. $M_0$8.86000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.8km az=9.5.
IDC Error ellipse: s-maj=16.0km s-min=8.8km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s27.00000°,δ79.00000°,λ92.00000°. NP2: ϕ_s195.00000°,δ11.00000°,λ78.00000°. Principal axes: T Plg56.0000°,Azm300.0000° ; N Plg2.0000°,Azm207.0000°; P Plg34.0000°,Azm115.0000°
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.7km az=103.0. Recorded [2 JMA] in Fukushima and [1 JMA] in Ibaraki and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**II**	**26 09 57 47.2–.62**	**37.17N–.04**	**141.53E–.06**	**37–1**	**4.0b**	**79**	**1-147**
NIED	II	26 09 57 00	37.20N	141.50E	41	4.0W		**¶16398983**
ISCJB	II	26 09 57 45.3–.65	37.14N–.03	141.60E–.05	40–5	4.0b		
MOS	II	26 09 57 46.4–.77	37.20N	141.50E	47	4.1b		
IDC	II	26 09 57 47.6–2.0	37.19N	141.52E	40–18	4.0,3.9		
JMA	II	26 09 57 47.4–.10	37.17N	141.45E	48–1	4.1,3.9		
NEIC	II	26 09 57 47.8–.58	37.16N	141.54E	44–5	4.1b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ19.00000°,λ48.00000°. NP2:ϕ_s29.00000°,δ76.00000°,λ103.00000°. $M_0$1.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.4km az=19.0.
MOS Error ellipse: s-maj=10.5km s-min=7.8km az=91.5.
IDC Error ellipse: s-maj=15.3km s-min=11.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=121.0. Recorded [2 JMA] in Fukushima and [1 JMA] in Ibaraki, Miyagi and Tochigi.

(162) South Island

WEL	**II**	**26 10 51 03.7–.07**	**43.57S**	**172.43E**	**11–0**	**3.8L**	
NEIC	II	26 10 51 03.6	43.56S	172.43E	12	3.8L	**¶16160466**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(78) Costa Rica

ISC	**II**	**26 11 11 36.5–.44**	**9.17N–.06**	**83.99W–.05**	**39–2**	**4.3b,3.5s**	**97**	**0-152**
IDC	II	26 11 11 32.2–1.0	9.58N	83.67W	0	4.3,4.1		**¶16160467**
CASC	II	26 11 11 32.4–1.8	8.95N	84.06W	4	4.6b,4.6		
ISCJB	II	26 11 11 35.8–.44	9.20N–.06	83.95W–.04	48–3	4.3b,3.6s		
BJI	II	26 11 11 37.2	9.30N	83.90W	36	4.6,3.6s		
NEIC	II	26 11 11 37.2–.85	9.35N	83.88W	36–8	4.6b,3.6s		

ISC Event type fe.
IDC Error ellipse: s-maj=32.1km s-min=12.1km az=27.0.
CASC Error ellipse: s-maj=5.1km s-min=4.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=3.7km az=33.3.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.2km az=217.0. Felt [II] at Quepos. Also felt at Alajuela, Curridabat, San Jose and San Juan de Dios.

(502) Arkansas

ISC	**II**	**26 14 35 01.2–.94**	**35.29N–.02**	**92.35W–.02**	**6–7**		**119**	**0-15**
ISCJB	II	26 14 35 00.7–.49	35.28N–.02	92.33W–.02	4–3			**¶16160469**
IDC	II	26 14 35 00.9–1.1	35.31N	92.28W	0	3.6,3.3		
NEIC	II	26 14 35 02.0	35.28N	92.35W	3	3.3W,3.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=166.7.
IDC Error ellipse: s-maj=21.7km s-min=10.0km az=167.0.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Bee Branch, Conway, Edgemont, Hot Springs National Park, Marshall, Quitman, Searcy and Vilonia. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ75.00000°,λ5.00000°. NP2:ϕ_s204.00000° ,δ85.00000°,λ165.00000°. Principal axes: T 1.0500,Plg14.0000°,Azm158.0000° ; N 0.0000,Plg74.0000°,Azm6.0000°; P -1.0500,Plg7.0000°,Azm250.0000°

(229) Off east coast of Honshu

ISC	**II**	**26 14 40 57.7–.47**	**38.20N–.03**	**143.19E–.03**	**27–2**	**5.1b,4.7s**	**496**	**1-154**
NIED	II	26 14 40 00	38.20N	143.50E	17	4.9W,4.7s		**¶16160046**
IDC	II	26 14 40 53.5–.43	38.14N	143.26E	0	4.8,4.7		
JMA	II	26 14 40 53.2–.10	38.17N	143.54E	34	5.2,4.7		
ISCJB	II	26 14 40 54.7–.69	38.17N–.02	143.27E–.03	18–4	5.0b,4.6s		
BJI	II	26 14 40 56.8	38.24N	142.96E	22	5.2b,5.2b		
NEIC	II	26 14 40 57.0–2.0	38.19N	143.16E	22–13	5.1b,5.2b		
MOS	II	26 14 40 57.5–1.0	38.54N	143.03E	23	5.4b,4.6s		
GCMT	II	26 14 40 57.0–.40	38.23N	143.41E	26–1	5.0W,4.6s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ31.00000°,λ111.00000°. NP2:ϕ_s13.00000°,δ61.00000°,λ78.00000°. $M_0$2.66000×10^{16}
IDC Error ellipse: s-maj=13.3km s-min=9.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=41.1.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=115.0. Felt at Sendai. Recorded [2 JMA] in Miyagi and [1 JMA] in Iwate and Yamagata.
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=106.1.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c31; s68,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.51±.18 $M_{\theta\theta}$-0.61±.11; $M_{\phi\phi}$-1.90±.11; $M_{r\theta}$1.46±.22; $M_{\theta\phi}$-0.75±.06; $M_{\phi r}$2.33±.20; Best double couple: NP1:ϕ_s30.00000°,δ70.00000° ,λ93.00000°. NP2:ϕ_s201.00000°,δ21.00000°,λ81.00000°. Principal axes: T 3.7760,Plg65.0000°,Azm306.0000°; N -0.2880,Plg3.0000°,Azm209.0000° ; P -3.4930,Plg25.0000°,Azm118.0000° $M_0$3.63400×10^{16}

(228) Near east coast of eastern Honshu

ISC	**II**	**26 15 38 43.1–.34**	**37.32N–.03**	**141.78E–.03**	**27–2**	**5.4b,4.5s**	**924**	**1-155**
NIED	II	26 15 38 00	37.30N	141.90E	38	5.1W,4.5s		**¶16160048**
BJI	II	26 15 38 37.3	37.20N	141.86E	11	5.3b,5.2b		
MOS	II	26 15 38 41.9–.95	37.51N	141.68E	21	5.7b,4.3s		
GCMT	II	26 15 38 43.8–.20	37.35N	141.89E	36–0	5.1W,4.3s		
JMA	II	26 15 38 43.1–.20	37.30N	141.84E	43–3	5.2,4.3s		
NEIC	II	26 15 38 43.8–.15	37.36N	141.65E	27	5.2b,4.3s		
IDC	II	26 15 38 44.9–1.8	37.31N	141.80E	40–15	5.1,5.0		
ISCJB	II	26 15 38 44.3–.33	37.32N–.02	141.71E–.02	45–2	5.3b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ22.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ81.00000°. $M_0$4.90000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c93; s94,c159;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.98±.20 $M_{\theta\theta}$-1.32±.13; $M_{\phi\phi}$-3.65±.13; $M_{r\theta}$0.99±.13; $M_{\theta\phi}$-1.85±.07; $M_{\phi r}$4.09±.13; Best double couple: NP1:ϕ_s19.00000°,δ66.00000°,λ83.00000°. NP2:ϕ_s217.00000°,δ25.00000°,λ106.00000°. Principal axes: T 6.6180,Plg69.0000°,Azm275.0000°; N -0.4310,Plg7.0000°,Azm22.0000° ; P -6.1770,Plg20.0000°,Azm115.0000° $M_0$6.39700×10^{16}
JMA Event type fe.
NEIC Event type fe. Felt [III] at Sendai and [II] at Tokyo. Felt widely in eastern Honshu. Recorded [3 JMA] in Fukushima; [2 JMA] in Ibaraki, Miyagi, Tochigi and Yamagata; [1 JMA] in Akita, Aomori, Chiba, Gumma, Iwate, Kanagawa, Nagano, Niigata, Saitama and Tokyo.
ISCJB Event type fe.

(162) South Island

WEL	**II**	**26 15 54 21.8–.14**	**43.58S**	**172.75E**	**11–0**	**3.5L**	**¶602337460**

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(1) Central Alaska

ISC	**II**	**26 16 11 24.8–1.2**	**63.60N–.02**	**147.83W–.03**	**4–9**	**3.8b**	**75**	**1-66**
IDC	II	26 16 11 23.9–1.1	63.64N	148.20W	0	3.8,3.6		**¶16398995**
ISCJB	II	26 16 11 25.7–.55	63.59N–.02	147.74W–.05	10–4	3.7b,3.6		
NEIC	II	26 16 11 26.0	63.58N	147.70W	8	3.6L,3.6		

ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=15.5km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=178.6.
NEIC Event type fe. Felt at Anchorage, Cantwell, Fairbanks and Healy. After AEIC.

(227) Eastern Honshu

ISC	**II**	**26 17 18 59.3–.89**	**36.12N–.02**	**137.49E–.02**	**2–5**	**4.7b,4.3s**	**277**	**0-150**
NIED	II	26 17 18 00	36.20N	137.50E	5	4.8W,4.3s		**¶602354503**
ISCJB	II	26 17 18 58.8–.40	36.17N–.02	137.46E–.02	9–2	4.6b,4.2s		
IDC	II	26 17 18 58.0–.53	36.05N	137.50E	0	4.3,4.3		
JMA	II	26 17 18 58.9	36.16N	137.46E	4–1	5.0,4.3		
BJI	II	26 17 18 58.6	36.10N	137.50E	6	5.0b,4.5b		
NEIC	II	26 17 18 59.7–.82	36.13N	137.49E	7–5	4.9b,4.5b		
MOS	II	26 17 19 00.1–1.2	36.07N	137.47E	26	5.0b,4.0s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ45.00000°,λ109.00000°. NP2:ϕ_s45.00000°,δ48.00000°,λ71.00000°. $M_0$1.53000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.0km az=156.2.
IDC Error ellipse: s-maj=13.2km s-min=7.8km az=147.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s48.00000°,δ53.00000°,λ76.00000°. NP2:ϕ_s250.00000°,δ39.00000°,λ107.00000°. Principal axes: T Plg77.0000°,Azm270.0000°; N Plg11.0000°,Azm57.0000°; P Plg7.0000° ,Azm148.0000°
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=141.0. Felt at Nagoya and Takaoka. Recorded [4 JMA] in Gifu; [3 JMA] in Nagano; [2 JMA] in Ishikawa and Toyama; [1 JMA] in Aichi, Fukui, Mie, Niigata, Shiga, Shizuoka, Tokyo and Yamanashi.
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=85.6.

(229) Off east coast of Honshu

ISC	**II**	**26 17 20 06.8–.47**	**38.08N–.04**	**143.32E–.06**	**19**	**4.8b,4.5s**	**185**	**2-85**
NIED	II	26 17 20 00	38.20N	143.30E	11	4.7W,4.5s		**¶16160472**
NEIC	II	26 17 20 04.7–2.4	38.09N	143.47E	7–15	4.8b,4.5s		
ISCJB	II	26 17 20 05.5–.32	38.16N–.03	143.37E–.05	19	4.7b,4.4s		
JMA	II	26 17 20 06.1–.20	38.22N	143.32E	23	4.7,4.4s		
MOS	II	26 17 20 07.4–1.1	38.22N	143.42E	33	5.1b,4.4s		
IDC	II	26 17 20 08.3–5.4	38.13N	143.38E	28–37	4.6,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ22.00000°,λ34.00000°. NP2:ϕ_s47.00000°,δ78.00000°,λ109.00000°. $M_0$1.36000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=5.2km az=110.0. Recorded [1 JMA] in Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=35.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=8.6km s-min=5.2km az=106.3.
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=97.0.
(227) Eastern Honshu

ISC	**II**	**26 20 38 03.2–.54**	**36.13N–.02**	**137.48E–.02**	**8–3**	**5.2b,4.7s**	**932**	**0-159**
NIED	II	26 20 38 00	36.10N	137.40E	5	5.1W,4.7s		**¶16160475**
IDC	II	26 20 38 01.4–.41	36.15N	137.38E	0	4.8,4.8		
ISCJB	II	26 20 38 02.2–.37	36.18N–.02	137.37E–.02	9–2	5.1b,4.6s		
JMA	II	26 20 38 02.6	36.16N	137.45E	4–1	5.5,4.6s		
BJI	II	26 20 38 02.4	36.10N	137.30E	5	5.1b,5.0s		
NEIC	II	26 20 38 02.4–.66	36.12N	137.35E	3–4	5.2b,5.0s		
MOS	II	26 20 38 02.3–1.2	36.22N	137.33E	12	5.3b,4.5s		
GCMT	II	26 20 38 02.4–.20	36.21N	137.38E	12	5.2W,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ52.00000°,λ130.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ51.00000°. $M_0$5.24000×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=7.3km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=148.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ53.00000°,λ66.00000°. NP2:ϕ_s266.00000°,δ43.00000°,λ119.00000°. Principal axes: T Plg70.0000°,Azm260.0000°; N Plg19.0000°,Azm64.0000°; P Plg5.0000° ,Azm156.0000°
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=144.0. Felt [II] at Kyoto and Nagoya. Felt widely in west-central Honshu. Recorded [4 JMA] in Gifu; [3 JMA] in Aichi, Ishikawa, Nagano and Toyama; [2 JMA] in Fukui, Kyoto, Mie, Osaka, Shiga and Shizuoka; [1 JMA] in Gumma, Hyogo, Kanagawa, Nara, Niigata, Okayama, Tokyo and Yamanashi.
MOS Error ellipse: s-maj=5.6km s-min=4.0km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c79; s85,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.99±.15 $M_{\theta\theta}$-3.50±.12; $M_{\phi\phi}$-1.49±.13; $M_{r\theta}$-2.53±.39; $M_{\theta\phi}$-4.38±.10; $M_{\phi r}$-1.03±.42; Best double couple: NP1:ϕ_s242.00000° ,δ58.00000°,λ103.00000°. NP2:ϕ_s38.00000°,δ35.00000°,λ70.00000°. Principal axes: T 5.6920,Plg74.0000°,Azm187.0000°; N 1.8470,Plg11.0000°,Azm55.0000° ; P -7.5400,Plg12.0000°,Azm322.0000° $M_0$6.61600×10^{16}
(227) Eastern Honshu

ISC	**II**	**26 20 44 04.8–2.8**	**36.1N–.10**	**137.45E–.05**	**3–25**		**11**	**0-56**
ISCJB	II	26 20 44 04.5–1.1	36.07N–.06	137.42E–.07	14–6	3.5b		**¶600533331**
IDC	II	26 20 44 04.5–1.4	36.05N	137.46E	0	3.7,3.5		
JMA	II	26 20 44 06.2	36.15N	137.44E	5–1	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=8.7km az=147.9.
IDC Error ellipse: s-maj=14.7km s-min=10.0km az=145.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s92.00000°,δ77.00000°,λ129.00000°. NP2:ϕ_s197.00000°,δ41.00000°,λ20.00000°. Principal axes: T Plg44.0000°,Azm40.0000°; N Plg38.0000°,Azm261.0000°; P Plg22.0000° ,Azm153.0000°
(227) Eastern Honshu

JMA	**II**	**26 21 05 24.9**	**36.15N**	**137.45E**	**6–1**	**2.9**		**¶600533464**

JMA Event type fe.
(227) Eastern Honshu

JMA	**II**	**26 21 41 40.0**	**36.15N**	**137.45E**	**5–1**	**3.1**		**¶600533647**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s81.00000°,δ57.00000°,λ134.00000°. NP2:ϕ_s200.00000°,δ53.00000°,λ43.00000°. Principal axes: T Plg54.0000°,Azm48.0000°; N Plg36.0000°,Azm232.0000°; P Plg2.0000° ,Azm141.0000°
(227) Eastern Honshu

JMA	**II**	**26 21 43 50.6**	**36.16N**	**137.45E**	**7–1**	**2.7**		**¶600533654**

JMA Event type fe.
(162) South Island

WEL	**II**	**27 00 03 50.2–.16**	**43.50S**	**172.71E**	**8–1**	**3.5L**		**¶16160478**

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(227) Eastern Honshu

JMA	**II**	**27 00 48 10.0**	**36.16N**	**137.47E**	**5–1**	**3.7**		
NIED	II	27 00 48 00	36.10N	137.50E	5	3.6W		**¶16161185**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s89.00000°,δ70.00000°,λ131.00000°. NP2:ϕ_s200.00000°,δ45.00000°,λ29.00000°. Principal axes: T Plg48.0000°,Azm43.0000°; N Plg38.0000°,Azm252.0000°; P Plg15.0000° ,Azm150.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ51.00000°,λ141.00000°. NP2:ϕ_s25.00000°,δ61.00000°,λ46.00000°. $M_0$2.98000×10^{14}
(227) Eastern Honshu

JMA	**II**	**27 02 22 59.4**	**36.15N**	**137.44E**	**5–1**	**3.1**		**¶600534113**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s39.00000°,δ47.00000°,λ81.00000°. NP2:ϕ_s232.00000°,δ43.00000°,λ100.00000°. Principal axes: T Plg83.0000°,Azm241.0000°; N Plg7.0000°,Azm45.0000°; P Plg2.0000° ,Azm135.0000°
(162) South Island

WEL	**II**	**27 03 21 20.7–.11**	**43.59S**	**172.69E**	**5–1**	**3.7L**		**¶16160481**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(137) San Juan Province

ISC	**II**	**27 05 53 16.0–.65**	**31.46S–.03**	**69.53W–.04**	**111–5**	**4.3b**	**275**	**0-174**
IDC	II	27 05 53 13.9–2.8	31.53S	69.42W	92–24	4.3,4.1		**¶602036174**
ISCJB	II	27 05 53 15.0–.19	31.44S–.02	69.52W–.03	111–2	4.3b,4.1		
SJA	II	27 05 53 14.9–.66	31.47S	69.48W	112–4	4.6L,4.1		
BJI	II	27 05 53 14.7	31.40S	69.30W	99	5.0b,4.1		
GUC	II	27 05 53 14.9–.33	31.46S	69.68W	121–8	4.5L,4.1		
NEIC	II	27 05 53 14.7–.59	31.48S	69.36W	99–5	4.6,4.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=17.0km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=5.2.
SJA Error ellipse: s-maj=2.5km s-min=5.0km az=-1.0.
GUC Error ellipse: s-maj=0.6km s-min=6.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.5km az=78.0. Felt [III] at San Juan.
(128) Jujuy Province

ISC	**II**	**27 11 12 33.3–.33**	**23.88S–.05**	**66.77W–.05**	**200**	**4.6b**	**463**	**1-170**
SCB	II	27 11 12 27.6–1.3	23.58S	65.90W	245	4.0L		**¶16166746**
SJA	II	27 11 12 29.6–.38	23.87S	66.23W	270–5	4.5L,3.7W		
ISCJB	II	27 11 12 31.8–.16	23.85S–.03	66.69W–.04	200	4.5b,3.7W		
NEIC	II	27 11 12 32.3–.50	23.88S	66.62W	186–4	4.7b,4.5		
BJI	II	27 11 12 32.2	23.90S	66.60W	184	5.3b,4.5		
IDC	II	27 11 12 33.5–2.0	23.82S	66.59W	198–17	4.5,4.1		
GUC	II	27 11 12 35.7–.28	23.70S	67.29W	217–11	5.1L,4.1		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=208.1km s-min=26.3km az=72.0.
SJA Error ellipse: s-maj=2.6km s-min=6.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=150.8.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=56.0. Felt [II] in the epicentral area. Also felt at Calama, Chile.
IDC Error ellipse: s-maj=17.6km s-min=11.7km az=45.0.
GUC Error ellipse: s-maj=3.9km s-min=8.6km az=-1.0.
(123) Northern Chile

ISC	**II**	**27 11 46 00.1–.43**	**20.26S–.04**	**69.00W–.05**	**110–3**	**4.9b**	**391**	**1-173**
BJI	II	27 11 45 57.6	20.50S	69.19W	97	5.4b		**¶16166747**
ISCJB	II	27 11 45 58.1–.33	20.17S–.03	68.92W–.04	107–3	4.8b		
NEIC	II	27 11 45 59.0	20.26S	69.08W	108	4.9b		
SCB	II	27 11 45 59.8–.99	20.10S	69.20W	95	3.7L		
GUC	II	27 11 45 59.7–.38	20.26S	69.08W	108–3	4.5L		
IDC	II	27 11 46 00.6–.52	20.15S	68.80W	110–4	4.4,4.2		
MOS	II	27 11 46 03.2–1.6	20.11S	68.74W	148	4.9b,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.6km az=146.6.
NEIC Event type fe. Felt at Iquique. After GUC.
SCB Event type ke. Error ellipse: s-maj=74.1km s-min=21.4km az=98.0.
GUC Error ellipse: s-maj=1.1km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.2km az=55.0.
MOS Error ellipse: s-maj=18.2km s-min=8.6km az=105.9.
(227) Eastern Honshu

JMA	**II**	**27 12 46 57.0**	**36.15N**	**137.45E**	**6–1**	**4.0**		
NIED	II	27 12 46 00	36.10N	137.40E	8	3.8W		**¶16161187**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s348.00000°,δ85.00000°,λ-24.00000°. NP2:ϕ_s80.00000°,δ66.00000°,λ-175.00000°. Principal axes: T Plg13.0000°,Azm36.0000°; N Plg66.0000°,Azm157.0000°; P Plg20.0000° ,Azm301.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ79.00000°,λ174.00000°. NP2:ϕ_s345.00000°,δ84.00000°,λ11.00000°. $M_0$5.34000×10^{14}
(162) South Island

WEL	**II**	**27 13 18 58.6–.12**	**43.57S**	**172.63E**	**6–1**	**3.0L**		**¶602337574**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(227) Eastern Honshu

JMA	**II**	**27 17 25 20.3–.10**	**35.22N**	**138.39E**	**18–1**	**2.5**		**¶600534609**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s39.00000°,δ77.00000°,λ60.00000°. NP2:ϕ_s288.00000°,δ33.00000°,λ155.00000°. Principal axes: T Plg49.0000°,Azm276.0000°; N Plg29.0000°,Azm46.0000°; P Plg26.0000° ,Azm152.0000°
(162) South Island

ISC	**II**	**27 18 55 29.4–1.1**	**43.55S–.04**	**172.82E–.05**	**9–6**	**3.6b**	**50**	**0-149**
ISCJB	II	27 18 55 28.6–.69	43.62S–.03	172.83E–.06	13–3	3.5b		**¶16168293**
IDC	II	27 18 55 29.6–3.2	43.33S	172.64E	0	3.6,3.5		
WEL	II	27 18 55 30.7–.10	43.56S	172.72E	8–0	4.1L,3.5		
NEIC	II	27 18 55 30.8	43.56S	172.71E	5	4.1L,4.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=3.9km az=33.0.
IDC Error ellipse: s-maj=82.4km s-min=16.5km az=149.0.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
(227) Eastern Honshu

ISC	**II**	**27 19 03 27.2–.93**	**36.15N–.07**	**137.51E–.05**	**10**	**3.4b**	**15**	**0-60**
NIED	II	27 19 03 00	36.10N	137.50E	8	3.8W		**¶602354506**
ISCJB	II	27 19 03 25.7–.73	36.11N–.05	137.48E–.05	10	3.4b		
IDC	II	27 19 03 26.2–1.0	36.03N	137.61E	0	3.7,3.7L		
JMA	II	27 19 03 26.5	36.15N	137.45E	5–1	3.9,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ78.00000°,λ9.00000°. NP2:ϕ_s259.00000°,δ81.00000°,λ168.00000°. $M_0$5.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.3km az=170.8.
IDC Error ellipse: s-maj=23.6km s-min=9.2km az=136.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s82.00000°,δ89.00000°,λ179.00000°. NP2:ϕ_s172.00000°,δ89.00000°,λ1.00000°. Principal axes: T Plg1.0000°,Azm37.0000°; N Plg89.0000°,Azm217.0000°; P Plg0.0000° ,Azm127.0000°
(460) Wyoming

ISC	**II**	**27 19 04 34.9–1.0**	**43.87N–.06**	**105.15W–.06**	**0**		**21**	**2-19**
ISCJB	II	27 19 04 33.2–.85	43.87N–.07	105.10W–.08	0			**¶17192965**
IDC	II	27 19 04 33.3–2.4	43.60N	105.31W	0	3.4,3.2		
NEIC	II	27 19 04 36.7–1.1	43.86N	105.33W	0	3.0L,3.2		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=10.6km s-min=8.2km az=158.8.
IDC Error ellipse: s-maj=58.4km s-min=8.6km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=15.9km s-min=14.0km az=177.0. 50 km [31 miles] SSE of Gillette. Suspected Mining explosion.
(460) Wyoming

ISC	**II**	**27 20 13 24.0–.74**	**43.53N–.03**	**105.29W–.03**	**0**		**55**	**1-20**
IDC	II	27 20 13 22.6–1.8	43.46N	105.33W	0	3.5,3.3		**¶17192966**
ISCJB	II	27 20 13 23.5–.27	43.54N–.02	105.31W–.03	0	3.5,3.3		
NEIC	II	27 20 13 24.3–.44	43.56N	105.25W	0	3.2L,3.3		

ISC Event type sm.
IDC Error ellipse: s-maj=39.7km s-min=7.9km az=150.0.
ISCJB Event type fm. Error ellipse: s-maj=3.8km s-min=2.7km az=148.1.
NEIC Event type fm. Error ellipse: s-maj=6.2km s-min=5.6km az=131.0. 84 km [52 miles] SSE of Gillette. Suspected Mining explosion.
(160) Off east coast of North Island

ISC	**II**	**27 21 16 07.2–.80**	**37.33S–.04**	**177.80E–.04**	**70–6**	**4.0b**	**120**	**0-156**
ISCJB	II	27 21 16 07.8–.50	37.36S–.03	177.75E–.04	75–4	3.9b		**¶16168294**
IDC	II	27 21 16 08.7–2.4	37.67S	177.86E	88–18	4.0,4.0		
NEIC	II	27 21 16 09.0	37.28S	177.74E	33	4.3L,4.0		
WEL	II	27 21 16 09.1–.24	37.31S	177.71E	52–3	4.3L,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=152.7.
IDC Error ellipse: s-maj=47.5km s-min=33.2km az=25.0.
NEIC Event type fe. Felt at Whakatane. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.4km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.
(162) South Island

ISC	**II**	**27 21 35 42.0–1.1**	**43.61S–.03**	**172.82E–.04**	**10–6**		**123**	**0-153**
ISCJB	II	27 21 35 40.5–.59	43.67S–.03	172.89E–.04	12–4	3.8b		**¶16168295**
IDC	II	27 21 35 41.4–1.2	43.52S	172.74E	0	4.1,4.0L		
WEL	II	27 21 35 43.4–.10	43.59S	172.73E	9–0	4.3L,4.0L		
NEIC	II	27 21 35 43.5	43.60S	172.73E	9	4.3L,4.0L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.2km az=136.1.
IDC Error ellipse: s-maj=46.9km s-min=14.3km az=166.0.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbruy region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
(162) South Island

WEL	**II**	**27 21 43 56.9–.12**	**43.58S**	**172.72E**	**8–0**	**3.8L**		
NEIC	II	27 21 43 56.0	43.61S	172.79E	12	3.8L		**¶16168296**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Whakatane. After WEL.
(235) Kyushu

ISC	**II**	**28 00 04 34.4–.65**	**32.11N–.04**	**131.85E–.04**	**42–5**	**4.4b,4.3s**	**142**	**0-114**
NIED	II	28 00 04 00	32.10N	131.90E	35	4.9W,4.3s		**¶16160600**
MOS	II	28 00 04 31.9–1.5	32.12N	131.63E	36	4.7b,4.2s		
ISCJB	II	28 00 04 33.4–.39	32.12N–.03	131.84E–.03	49–3	4.3b,4.3s		
JMA	II	28 00 04 33.9–.10	32.12N	131.85E	34–1	4.6,4.3s		
NEIC	II	28 00 04 34.4–.72	32.09N	131.67E	41–6	4.7b,4.3s		
IDC	II	28 00 04 37.2–1.2	32.09N	131.55E	70–9	4.3,4.2s		
BJI	II	28 00 04 37.0	32.78N	131.78E	55	4.8b,4.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ22.00000°,λ-118.00000°. NP2:ϕ_s197.00000°,δ71.00000°,λ-79.00000°. $M_0$2.87000×10^{16}
MOS Error ellipse: s-maj=11.0km s-min=6.4km az=106.3.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=153.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s214.00000°,δ75.00000°,λ-73.00000°. NP2: ϕ_s344.00000°,δ23.00000°,λ-137.00000°. Principal axes: T Plg28.0000°,Azm290.0000° ; N Plg16.0000°,Azm29.0000°; P Plg57.0000°,Azm146.0000°
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=6.2km az=160.0. Recorded [3 JMA] in Miyazaki; [2 JMA] in Kumamoto and Oita; [1 JMA] in Kagoshima and Nagasaki. Also recorded [1 JMA] in Ehime and Kochi, Shikoku.
IDC Error ellipse: s-maj=16.7km s-min=11.0km az=81.0.
(135) Near coast of central Chile

ISC	**II**	**28 01 29 25.6–.21**	**37.28S–.04**	**73.43W–.04**	**23**	**5.7s,5.7b**	**1115**	**0-178**
IDC	II	28 01 29 22.1–.43	37.44S	73.29W	0	5.5,5.5s		**¶16160700**
ISCJB	II	28 01 29 24.7–.17	37.25S–.03	73.31W–.04	23	5.7s,5.6b		
NEIC	II	28 01 29 25.0	37.36S	73.70W	32	5.9L,5.8W		
GCMT	II	28 01 29 25.0–.10	37.46S	73.69W	25–0	5.8W,5.8W		
GUC	II	28 01 29 25.2–.57	37.36S	73.70W	32–6	5.9W,5.9L		
MOS	II	28 01 29 26.9–1.1	37.23S	73.46W	34	5.8b,5.6s		
BJI	II	28 01 29 26.1	36.73S	73.73W	31	5.8s,5.7		

ISC Event type fe.
IDC Error ellipse: s-maj=17.4km s-min=14.1km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.3km az=41.8.
NEIC Event type fe. Felt [VI] at Arauco, Chillan, Los Alamos, Lota and San Pedro de la Paz; [V] at Angol, Chiguayante, Colbun, Concepcion, Constitucion, Coronel, Curanilahue, Lebu, Linares, Longavi, Parral, Penco, Renaico, Retiro, Talcahuano and Tome. Felt widely in central Chile from Santiago to Valdivia. After GUC. Moment Tensor Solution. s65 Moment tensor: Scale 10^{17}Nm; M_{rr}3.49 $M_{\theta\theta}$1.10 $M_{\phi\phi}$-4.58 $M_{r\theta}$-0.49 $M_{\theta\phi}$2.31 $M_{\phi r}$-3.64 Best double couple: NP1: ϕ_s183.00000°,δ67.00000°,λ115.00000°. NP2:ϕ_s312.00000°,δ33.00000°,λ45.00000°. Principal axes: T 5.3100,Plg60.0000°,Azm129.0000°; N 1.2000,Plg23.0000°,Azm352.0000° ; P -6.5100,Plg19.0000°,Azm254.0000° $M_0$6.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c222; s126,c324;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}3.43±.05 $M_{\theta\theta}$0.13±.03; $M_{\phi\phi}$-3.56±.04; $M_{r\theta}$0.17±.08; $M_{\theta\phi}$-0.16±.03; $M_{\phi r}$-5.62±.15; Best double couple: NP1: ϕ_s179.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s6.00000°,δ16.00000°,λ97.00000°. Principal axes: T 6.5610,Plg61.0000°,Azm86.0000°; N 0.1240,Plg2.0000°,Azm179.0000° ; P -6.6840,Plg29.0000°,Azm271.0000° $M_0$6.62200×10^{17}
GUC Error ellipse: s-maj=5.1km s-min=6.3km az=-1.0.
MOS Error ellipse: s-maj=15.2km s-min=7.0km az=101.5.

(502) Arkansas

ISC	**II**	**28 01 44 02.5–1.3**	**35.27N–.03**	**92.35W–.03**	**3–11**		**35**	**0-4**
ISCJB	II	28 01 44 02.2–.84	35.26N–.02	92.32W–.04	3–6			**¶16349993**
NEIC	II	28 01 44 03.0	35.27N	92.36W	5	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=7.8.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway and Quitman. After CERI.

(227) Eastern Honshu

JMA	**II**	**28 02 32 59.3**	**36.16N**	**137.48E**	**5–1**	**3.6**	
NIED	II	28 02 32 00	36.20N	137.50E	5	3.9W	**¶600534783**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ75.00000°,λ22.00000°. NP2:ϕ_s89.00000°,δ69.00000°,λ164.00000°. Principal axes: T Plg26.0000°,Azm48.0000°; N Plg64.0000°,Azm218.0000°; P Plg4.0000° ,Azm316.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ45.00000°,λ4.00000°. NP2:ϕ_s91.00000°,δ87.00000°,λ135.00000°. $M_0$8.81000×10^{14}

(162) South Island

WEL	**II**	**28 02 37 40.5–.03**	**43.58S**	**172.70E**	**5**	**3.7L**	**¶16168300**

WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**II**	**28 04 34 40.7–.06**	**43.59S**	**172.72E**	**9–0**	**3.6L**	**¶16168302**

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(502) Arkansas

ISC	**II**	**28 05 00 49.5–.19**	**35.33N–.01**	**92.30W–.01**	**10**	**4.5b,4.2s**	**746**	**0-136**
ISCJB	II	28 05 00 47.5–.11	35.347N–.01	92.26W–.01	10	4.5b,4.2s		**¶16160704**
IDC	II	28 05 00 48.7–.46	35.30N	92.33W	0	4.8L,4.5		
MOS	II	28 05 00 49.4–1.2	35.24N	92.27W	17	4.6b,4.2s		
BJI	II	28 05 00 49.6	35.29N	92.41W	10	5.6b,5.3s		
GCMT	II	28 05 00 50.2–.30	35.38N	92.37W	12	4.8W,5.3s		
NEIC	II	28 05 00 50.2	35.27N	92.34W	4	5.0,4.7W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.4km s-min=1.3km az=33.6.
IDC Error ellipse: s-maj=10.2km s-min=7.6km az=7.0.
MOS Error ellipse: s-maj=5.9km s-min=5.5km az=5.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c8; s78,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.48±.09 $M_{\theta\theta}$1.92±.08; $M_{\phi\phi}$-1.44±.08; $M_{r\theta}$-0.61±.25; $M_{\theta\phi}$0.96±.07; $M_{\phi r}$-0.43±.26; Best double couple: NP1:ϕ_s211.00000°,δ89.00000° ,λ161.00000°. NP2:ϕ_s301.00000°,δ71.00000°,λ1.00000°. Principal axes: T 2.3470,Plg14.0000°,Azm164.0000°; N -0.5990,Plg71.0000°,Azm28.0000° ; P -1.7530,Plg13.0000°,Azm257.0000° $M_0$2.05000×10^{16}
NEIC Event type fe. Felt [V] at Greenbrier and [IV] at Bee Branch, Clinton, Concord, Conway, Damascus, Edgemont, Enola, Glencoe, Higden, Hindsville, Judsonia, Kingston, Lepanto, Lockesburg, Oil Trough, Onia, Parthenon, Quitman, Roland, Timbo, Tuckerman, West Helena and Witts Springs. Felt [III] in much of central and northern Arkansas, in parts of eastern Oklahoma and southern Missouri and in the Memphis, Tennessee area. Also felt in parts of Alabama, Illinois, Indiana, Kansas, Kentucky, Louisiana, Mississippi and Texas. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ80.00000° ,λ-5.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ-170.00000°. Principal axes: T 1.1900,Plg4.0000°,Azm160.0000°; N 0.0000,Plg79.0000°,Azm52.0000° ; P -1.1900,Plg11.0000°,Azm251.0000°

(502) Arkansas

ISC	**II**	**28 05 17 59.5–.76**	**35.24N–.02**	**92.36W–.02**	**7–5**		**130**	**0-13**
ISCJB	II	28 05 17 59.2–.32	35.23N–.02	92.36W–.01	7–2			**¶16166756**
NEIC	II	28 05 18 00.3	35.27N	92.37W	4	3.8W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=165.0.
NEIC Event type fe. Felt [IV] at Greenbrier, [III] at Batesville and Mountain View and [II] at Benton, Conway, Fairfield Bay, Jonesboro and Searcy. Felt widely in Arkansas and southern Missouri and as far as Memphis, Tennessee and Tulsa, Oklahoma. After CERI. Moment Tensor Solution. s8 Moment tensor: Scale 10^{14}Nm; M_{rr}2.08 $M_{\theta\theta}$2.80 $M_{\phi\phi}$-4.88 $M_{r\theta}$-2.46 $M_{\theta\phi}$2.50 $M_{\phi r}$-1.42 Best double couple: NP1:ϕ_s305.00000°,δ60.00000°,λ25.00000°. NP2:ϕ_s202.00000° ,δ69.00000°,λ148.00000°. Principal axes: T 5.6800,Plg38.0000°,Azm161.0000° ; N 0.0000,Plg52.0000°,Azm352.0000°; P -5.6900,Plg5.0000°,Azm255.0000° $M_0$5.70000×10^{14}

(502) Arkansas

ISC	**II**	**28 06 32 43.8–.84**	**35.29N–.02**	**92.35W–.02**	**6–5**		**55**	**0-5**
ISCJB	II	28 06 32 43.8–.43	35.28N–.02	92.37W–.02	4–3			**¶16442161**
NEIC	II	28 06 32 44.2	35.28N	92.34W	5	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=160.6.
NEIC Event type fe. Felt [III] at Conway and [II] at Greenbrier. Also felt at Center Ridge, Quitman and Vilonia. After CERI.

(370) Crete

ISC	**II**	**28 07 49 06.8–.29**	**34.87N–.03**	**25.45E–.02**	**55–2**	**5.1b,4.7s**	**1760**	**0-144**
BJI	II	28 07 49 01.6	34.88N	24.90E	53	5.2b,5.1b		**¶16160709**
DDA	II	28 07 49 01.4	34.74N	25.39E	25	5.5L,5.1b		
MOS	II	28 07 49 02.8–1.3	34.80N	25.45E	33	5.5b,4.6s		
ISK	II	28 07 49 04.2	34.90N	25.35E	39	5.2L,4.6s		
ISCJB	II	28 07 49 04.5–.21	34.84N–.01	25.47E–.01	53–1	5.1b,4.7s		
PDG	II	28 07 49 05.9–.17	34.93N	24.42E	11–5	5.0L,4.7s		
SFS	II	28 07 49 06.0	34.82N	25.44E	50	5.2L,4.7s		
CSEM	II	28 07 49 06.1–.09	34.81N	25.49E	62	5.2b,4.8s		
NEIC	II	28 07 49 07.0	34.98N	25.42E	53	5.2b,4.8s		
HLW	II	28 07 49 07.3	34.40N	25.88E	11–10	4.6L,4.3		
THE	II	28 07 49 07.3	34.87N	25.46E	55–1	5.1L,4.3		
ATH	II	28 07 49 07.0	34.98N	25.42E	53–1	5.2L,4.3		
GCMT	II	28 07 49 07.0–.30	34.73N	25.56E	33–1	5.7W,4.3		
IDC	II	28 07 49 07.4–.42	34.99N	25.39E	58–3	4.9,4.7		
NIC	II	28 07 49 11.6–.30	34.48N	26.12E	25	4.7b,4.2L		
GII	II	28 07 49 11.7–.00	34.71N	26.22E	30	4.8b,4.8		

ISC Event type fe.
DDA Event type ke.
MOS Error ellipse: s-maj=4.6km s-min=2.6km az=88.7.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=11.2.
PDG Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=90.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=27.0.
NEIC Event type fe. Felt [III] at Ierapetra and Irakleio. Also felt at Agios Nikolaos, Arkalochori, Kokkini Khanion, Koutouloufarion, Koutsouras, Rethymno and Siteia. Felt at Alexandria, Egypt. After ATH.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=171.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=169.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c66; s66,c72; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.07 $M_{\theta\theta}$-0.81±.05; $M_{\phi\phi}$0.02±.05; $M_{r\theta}$4.36±.22; $M_{\theta\phi}$-0.16±.04; $M_{\phi r}$-0.18±.11; Best double couple: NP1:ϕ_s92.00000°,δ85.00000° ,λ92.00000°. NP2:ϕ_s246.00000°,δ6.00000°,λ64.00000°. Principal axes: T 4.4320,Plg50.0000°,Azm5.0000°; N 0.0140,Plg2.0000°,Azm272.0000° ; P -4.4460,Plg40.0000°,Azm180.0000° $M_0$4.43900×10^{17}
IDC Error ellipse: s-maj=6.9km s-min=6.5km az=151.0.
GII Event type ke.

(162) South Island

WEL	**II**	**28 08 11 37.4–.07**	**43.55S**	**172.72E**	**6–0**	**3.6L**		**¶16168304**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(502) Arkansas

ISC	**II**	**28 08 46 10.3–.69**	**35.33N–.02**	**92.31W–.02**	**10–4**		**230**	**0-15**
ISCJB	II	28 08 46 10.3–.33	35.31N–.01	92.37W–.01	6–2			**¶16166758**
IDC	II	28 08 46 11.0–.95	35.46N	92.28W	0	4.1L,3.8		
NEIC	II	28 08 46 11.7	35.28N	92.34W	2	3.4W,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=2.0km az=165.0.
IDC Error ellipse: s-maj=16.4km s-min=8.6km az=161.0.
NEIC Event type fe. Felt [III] at Greenbrier. Felt widely in central and northern Arkansas and in parts of southern Missouri. After CERI. Moment Tensor Solution. s14 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.08 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-1.28 $M_{r\theta}$-0.34 $M_{\theta\phi}$1.06 $M_{\phi r}$0.32 Best double couple: NP1: ϕ_s206.00000°,δ75.00000°,λ-175.00000°. NP2:ϕ_s115.00000°,δ85.00000°,λ-15.00000°. Principal axes: T 1.7600,Plg7.0000°,Azm161.0000°; N 0.0000,Plg74.0000°,Azm277.0000° ; P -1.7600,Plg14.0000°,Azm70.0000° $M_0$1.80000×10^{14}

(162) South Island

WEL	**II**	**28 09 15 12.1–.07**	**43.59S**	**172.69E**	**6–0**	**3.5L**		**¶602337692**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(219) Off east coast of Kamchatka Peninsula

ISC	**II**	**28 09 36 27.8–.78**	**52.67N–.04**	**159.54E–.05**	**71–6**	**4.6b**	**288**	**1-144**
KRSC	II	28 09 36 21.1–2.0	52.48N	160.14E	40–24	5.1L		**¶16161192**
MOS	II	28 09 36 24.4–1.2	52.62N	159.73E	59	4.8b		
ISCJB	II	28 09 36 26.3–.51	52.69N–.04	159.64E–.07	70–3	4.5b		
NEIC	II	28 09 36 28.1–.65	52.84N	159.58E	69–5	4.7b		
IDC	II	28 09 36 28.9–1.1	52.81N	159.64E	80–7	4.3,4.1		
BJI	II	28 09 36 31.0	53.10N	158.40E	69	4.9b,4.5b		

ISC Event type fe.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=8.2km s-min=4.0km az=93.5. Felt (III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=3.3km az=40.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=127.0. Felt [III] at Petropavlovsk-Kamchatskiy.
IDC Error ellipse: s-maj=11.7km s-min=9.4km az=149.0.

(162) South Island

WEL	**II**	**28 09 44 36.5–.05**	**43.59S**	**172.68E**	**8–0**	**3.9L**		
NEIC	II	28 09 44 36.2	43.58S	172.69E	8	3.9L		**¶16168306**

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(135) Near coast of central Chile

ISC	**II**	**28 10 27 15.7–.42**	**36.72S–.05**	**73.53W–.06**	**27**	**4.6b,4.3s**	**85**	**0-174**
IDC	II	28 10 27 11.2–.78	36.74S	73.47W	0	4.4,4.4L		**¶16168948**
GUC	II	28 10 27 12.3–.31	36.73S	73.66W	16–3	4.7L,4.4L		
ISCJB	II	28 10 27 14.2–.39	36.74S–.04	73.56W–.05	27	4.5b,4.2s		
BJI	II	28 10 27 14.7	36.32S	73.40W	29	5.4b,5.3s		
NEIC	II	28 10 27 16.9–.39	36.69S	73.42W	35	4.8b,4.7L		

ISC Event type fe.
IDC Error ellipse: s-maj=26.5km s-min=19.2km az=73.0.
GUC Error ellipse: s-maj=2.4km s-min=2.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.8km az=165.2.
NEIC Event type fe. Error ellipse: s-maj=12.5km s-min=8.5km az=77.0. Felt [IV] at Chiguayante, Concepcion, Penco and Talcahuano; [III] at Cabrero, Coronel, Los Angeles, Lota, Quillon, Tome and Yumbel; [II] at Bulnes, Canete, Chillan, Cobquecura, Coelemu, Curanilahue, Lebu, Los Alamos and Mulchen. Also felt at Angol.

(502) Arkansas

ISC	**II**	**28 13 15 52.7–1.1**	**35.28N–.02**	**92.35W–.02**	**4–9**		**53**	**0-4**
ISCJB	II	28 13 15 52.5–.65	35.28N–.02	92.36W–.02	1–5			**¶601793689**
NEIC	II	28 13 15 53.4	35.27N	92.34W	4	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=178.5.
NEIC Event type fe. Felt [V] at Greenbrier. Felt in parts of central Arkansas. After CERI.

(502) Arkansas

ISC	**II**	**28 14 08 51.2–.92**	**35.28N–.02**	**92.33W–.02**	**6–6**		**53**	**0-3**
ISCJB	II	28 14 08 50.9–.49	35.26N–.02	92.33W–.02	5–3			**¶601793690**
NEIC	II	28 14 08 51.5	35.28N	92.34W	4	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=160.8.
NEIC Event type fe. Felt [IV] at Greenbrier and [III] at Conway. Felt in parts of central Arkansas. After CERI.

(162) South Island

WEL	**II**	**28 17 37 37.3–.07**	**43.54S**	**172.70E**	**7–0**	**3.6L**		**¶602734557**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**II**	**28 18 40 38.8–.07**	**43.57S**	**172.73E**	**7–0**	**3.7L**		**¶16168317**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(460) Wyoming

ISC	**II**	**28 18 59 48.0–.77**	**43.93N–.04**	**105.27W–.04**	**0**		**25**	**1-89**
ISCJB	II	28 18 59 46.3–.50	43.87N–.05	105.02W–.06	0	3.5b		**¶17193013**
NEIC	II	28 18 59 48.1–.37	43.91N	105.12W	0	3.0L		
IDC	II	28 18 59 49.3–1.1	44.22N	105.64W	0	3.5,3.5b		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=7.2km s-min=6.0km az=40.1.
NEIC Event type fm. Error ellipse: s-maj=5.6km s-min=4.7km az=197.0. 53 km [33 miles] SE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=24.6km s-min=9.1km az=143.0.

(235) Kyushu

JMA	**II**	**28 19 17 29.6–.10**	**32.11N**	**131.85E**	**35–1**	**3.5**		
NIED	II	28 19 17 00	32.10N	131.90E	38	3.7W		**¶600535198**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ16.00000°,λ-108.00000°. NP2:ϕ_s196.00000°,δ75.00000°,λ-85.00000°. $M_0$4.58000×10^{14}

(162) South Island

ISC	**II**	**28 20 10 11.9–1.2**	**43.58S–.05**	**172.85E–.05**	**8–8**	**3.4s**	**90**	**0-149**
ISCJB	II	28 20 10 10.7–.68	43.64S–.03	172.89E–.04	12–5	3.8b,3.3s		**¶16168319**
IDC	II	28 20 10 10.6–1.4	43.27S	173.09E	0	4.2,3.9b		
NEIC	II	28 20 10 12.1	43.61S	172.86E	2	4.4L,3.9b		
WEL	II	28 20 10 13.6–.07	43.57S	172.73E	6–0	4.4L,3.9b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.8km az=136.7.
IDC Error ellipse: s-maj=105.6km s-min=37.9km az=22.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(162) South Island

WEL	**II**	**28 20 28 40.7–.07**	**43.56S**	**172.71E**	**6–0**	**3.5L**		**¶16168321**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(124) Chile-Bolivia border region

ISC	**II**	**28 20 45 42.9–.26**	**20.47S–.03**	**69.15W–.05**	**105–2**	**5.1b**	**853**	**0-178**
ISCJB	II	28 20 45 39.9–.37	20.29S–.03	68.91W–.04	92–3	5.1b		**¶16166883**
GUC	II	28 20 45 42.2–.66	20.46S	69.27W	101–3	5.5L		
MOS	II	28 20 45 42.9–1.2	20.11S	68.85W	106	5.2b		
GCMT	II	28 20 45 43.0–.20	20.52S	69.44W	126–1	5.3W		
IDC	II	28 20 45 43.2–.33	20.35S	69.01W	107–2	5.0,4.7		

BJI II 28 20 45 43.7 20.40S 69.00W 99 5.3b,4.7
NEIC II 28 20 45 43.0–.16 20.39S 68.90W 104 5.2W,5.2b
SCB II 28 20 45 56.0–.94 19.27S 69.21W 97 4.3L,5.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.4km az=153.2.
GUC Error ellipse: s-maj=1.3km s-min=3.4km az=-1.0.
MOS Error ellipse: s-maj=16.2km s-min=7.8km az=118.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c117; s108,c168; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.40±.02 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$0.50±.03; $M_{r\theta}$0.16±.01; $M_{\theta\phi}$0.03±.02; $M_{\phi r}$-0.90±.02; Best double couple: NP1:ϕ_s351.00000°,δ77.00000°,λ-97.00000°. NP2:ϕ_s201.00000°,δ15.00000°,λ-61.00000°. Principal axes: T 1.0640,Plg32.0000°,Azm87.0000°; N -0.0860,Plg7.0000°,Azm352.0000°; P -0.9780,Plg57.0000°,Azm251.0000° M_o1.02100×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=8.2km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.1km az=55.0. Felt [V] at Alto Hospicio, Iquique, Pica and Pozo Almonte; [IV] at Camina, Huara, La Tirana and Mamina; [III] at Cuya, Pisagua and Tocopilla. Also felt at Antofagasta. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.91 $M_{\theta\theta}$-0.29 $M_{\phi\phi}$6.19 $M_{r\theta}$1.37 $M_{\theta\phi}$0.74 $M_{\phi r}$-5.77 Best double couple: NP1:ϕ_s200.00000°,δ25.00000°,λ-65.00000°. NP2:ϕ_s353.00000°,δ67.00000°,λ-101.00000°. Principal axes: T 8.5000,Plg22.0000°,Azm91.0000°; N 0.0000,Plg10.0000°,Azm357.0000°; P -8.5100,Plg66.0000°,Azm243.0000° M_o8.50000×10^{16}
SCB Event type ke. Error ellipse: s-maj=51.1km s-min=21.6km az=104.0.

(254) Panay

ISC	**II**	**28 21 34 24.1–.91**	**10.43N–.05**	**122.39E–.08**	**32**	**3.5b**	**15**	**0-53**
IDC	II	28 21 34 16.5–1.2	10.49N	122.91E	0	3.7,3.6		**¶17193021**
ISCJB	II	28 21 34 26.3–.88	10.51N–.05	122.48E–.08	32	3.6s,3.5b		
MAN	II	28 21 34 28	10.54N	122.69E	57	4.3b,3.2L		

ISC Event type fe.
IDC Error ellipse: s-maj=65.9km s-min=19.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.7km az=172.5.
MAN Event type fe. INTENSITY I - JORDAN GUIMARAS.

(705) Off west coast of northern Sumatera

ISC	**II**	**28 23 10 25.3–.35**	**3.89N–.04**	**95.85E–.04**	**55–2**	**4.8b,3.6s**	**428**	**1-160**
MOS	II	28 23 10 23.5–1.1	4.12N	96.01E	47	5.0b,3.6s		**¶16166886**
BJI	II	28 23 10 23.5	4.10N	96.00E	34	4.8b,4.8b		
ISCJB	II	28 23 10 24.6–.46	3.88N–.02	95.90E–.03	66–4	4.7b,4.8b		
KLM	II	28 23 10 25.1	4.02N	95.78E	60	5.8s,4.9b		
IDC	II	28 23 10 26.0–.50	4.11N	95.94E	54–3	4.6,4.4		
NEIC	II	28 23 10 26.6–.61	3.97N	95.96E	63–5	5.0b,4.4		
DJA	II	28 23 10 28.3–.70	4N–3.0	96E–7.0	50–10	5.0b,5.0b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Meulaboh.

(36) Northern California

ISC	**III**	**01 02 19 47.8–.56**	**38.75N–.04**	**122.75W–.05**	**8**	**4.1b**	**64**	**0-100**
BJI	III	01 02 19 43.0	38.80N	122.80W	5	5.4s,5.1		**¶16166890**
ISCJB	III	01 02 19 46.7–.43	38.74N–.03	122.79W–.05	8	5.0s,4.1b		
IDC	III	01 02 19 47.4–1.0	38.78N	122.68W	0	4.1,4.1s		
NEIC	III	01 02 19 47.0	38.82N	122.82W	3	4.4W,4.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.0km az=149.8.
IDC Error ellipse: s-maj=18.0km s-min=10.4km az=46.0.
NEIC Event type fe. Felt [III] at Angwin, Clearlake, Cloverdale, Geyserville, Kelseyville, Lower Lake and Middletown; [II] at Calistoga, Healdsburg, Hidden Valley Lake, Lakeport, Napa, Saint Helena, Santa Rosa and Windsor. Felt in much of Lake, Napa and Sonoma Counties and as far as Sacramento and San Francisco. After NCEDC. Moment Tensor Solution. M_o5.40000×10^{15}

(259) Mindanao

ISC	**III**	**01 02 34 29.1–.89**	**6.83N–.05**	**125.59E–.04**	**55–7**	**3.7b**	**26**	**0-54**
IDC	III	01 02 34 27.6–2.2	6.80N	125.42E	41–31	3.8,3.8		**¶17193033**
ISCJB	III	01 02 34 27.8–.51	6.80N–.04	125.61E–.04	59–5	3.7b,3.8		
MAN	III	01 02 34 27	6.88N	125.64E	33	4.8b,3.8L		

ISC Event type fe.
IDC Error ellipse: s-maj=63.3km s-min=22.7km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.9km az=175.5.
MAN Event type fe. INTENSITY II - DAVAO CITY.

(502) Arkansas

ISC	**III**	**01 03 35 28.9–1.3**	**35.25N–.03**	**92.36W–.03**	**10–11**		**42**	**1-6**
NEIC	III	01 03 35 29.0	35.25N	92.36W	5	2.7		**¶16349996**

ISC Event type fe.
NEIC Event type fe. Felt at Alexander, Bryant, Conway, Harrison, Kingston, Morrilton and Western Grove. After CERI.

(135) Near coast of central Chile

ISC	**III**	**01 04 08 41.2–.46**	**36.59S–.05**	**73.31W–.07**	**27**	**4.7b**	**236**	**0-178**
IDC	III	01 04 08 36.5–.77	36.59S	73.33W	0	4.3,4.2		**¶16168963**
GUC	III	01 04 08 40.6–.38	36.71S	73.46W	13–3	4.6L,4.2		
NEIC	III	01 04 08 40.0	36.71S	73.46W	13	4.7b,4.6L		
ISCJB	III	01 04 08 40.0–.23	36.62S–.04	73.34W–.04	27	4.6b,4.6L		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Cauquenes, Chanco, Chiguayante, Cobquecura, Concepcion, Linares, Penco, Quirihue and Talcahuano; [III] at Angol, Arauco, Chillan, Coronel, Parral, Renaico, San Carlos and San Pedro; [II] at Curacautin and Curico. Also felt at Tome. After GUC.
ISCJB Event type fe.

(162) South Island

WEL	**III**	**01 04 17 57.0–.08**	**43.55S**	**172.72E**	**8–0**	**3.5L**	
							¶600710188

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(377) Spain

ISC	**III**	**01 06 21 36.0–.99**	**37.28N–.02**	**4.21W–.01**	**8–8**		**333**	**0-12**
ISCJB	III	01 06 21 34.9–.29	37.39N–.02	4.26W–.01	1–2			**¶16166897**
SFS	III	01 06 21 36.0	37.18N	4.24W	0	3.5L		
CSEM	III	01 06 21 36.1–.11	37.26N	4.23W	5	4.1L		
MDD	III	01 06 21 37.1–.18	37.19N	4.23W	4–2	3.4		
IGIL	III	01 06 21 37.1	37.20N	4.23W	2	3.1L		
LDG	III	01 06 21 37.2–.10	37.16N	4.22W	2	3.4L		
INMG	III	01 06 21 38.6–1.6	37.17N	4.19W	20–3	3.4L		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=2.5.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=16.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=180.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=174.0.
INMG Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=4.0.

(227) Eastern Honshu

ISC	**III**	**01 07 50 19.5–3.0**	**36.1N–.20**	**137.45E–.04**	**2–24**		**11**	**0-56**
NIED	III	01 07 50 00	36.10N	137.40E	5	3.5W		**¶17193049**
ISCJB	III	01 07 50 18.9–1.2	36.10N–.07	137.41E–.07	13–6	3.7b		
JMA	III	01 07 50 19.9	36.16N	137.44E	5–1	3.4		
IDC	III	01 07 50 19.1–1.6	36.06N	137.46E	0	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ35.00000°,λ48.00000°. NP2:ϕ_s260.00000°,δ64.00000°,λ115.00000°. M_o1.94000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=9.9km az=171.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s90.00000°,δ68.00000°,λ131.00000°. NP2:ϕ_s203.00000°,δ46.00000°,λ31.00000°. Principal axes: T Plg49.0000°,Azm45.0000°; N Plg38.0000°,Azm251.0000°; P Plg13.0000°,Azm151.0000°
IDC Error ellipse: s-maj=15.1km s-min=11.7km az=135.0.

(163) Cook Strait

ISC	**III**	**01 09 07 50.5–.80**	**41.29S–.03**	**174.62E–.03**	**48–5**	**4.0b**	**210**	**0-152**
IDC	III	01 09 07 43.6–1.0	40.94S	174.61E	0	4.3,4.1b		**¶16168326**
ISCJB	III	01 09 07 48.8–.27	41.37S–.03	174.69E–.04	68–4	4.0b,4.1b		
NEIC	III	01 09 07 51.2	41.20S	174.56E	41	4.5L,4.1b		
WEL	III	01 09 07 51.1–.04	41.20S	174.56E	41–0	4.5L,4.1b		

ISC Event type fe.
IDC Error ellipse: s-maj=42.3km s-min=27.2km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.1km az=41.2.
NEIC Event type fe. Felt [IV] in the Wellington area. Felt widely in the Nelson-Masterton-Wanganui area. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=0.0. Felt from Whanganui to Marlborough, and from Nelson to Hawke''s Bay, maximum. reported intensity MM 5.

(162) South Island

WEL	**III**	**01 09 12 12.5–.08**	**43.57S**	**172.65E**	**5–0**	**3.6L**		
								¶16168327

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(87) Haiti region

ISC	**III**	**01 09 14 20.6–1.1**	**18.54N–.10**	**72.69W–.04**	**18–4**		**30**	**0-13**
ISCJB	III	01 09 14 19.8–.60	18.38N–.05	72.64W–.03	19–5			**¶602442000**
NEIC	III	01 09 14 20.7–.88	18.54N	72.69W	14–6	3.8L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.2km az=171.7.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.8km az=175.0. Felt [IV] at Port-au-Prince, [III] at Leogane and [II] at Petionville. Also felt at Cabaret, Delmas, Kenscoff and Petit Goave.

(162) South Island

ISC	**III**	**01 09 42 07.6–1.0**	**43.66S–.04**	**172.78E–.04**	**10–5**	**4.2b**	**103**	**0-149**
ISCJB	III	01 09 42 05.9–.65	43.69S–.03	172.84E–.04	11–4	4.1b		**¶16168328**
IDC	III	01 09 42 07.3–1.5	43.54S	172.67E	0	4.6,4.3b		
WEL	III	01 09 42 09.0–.06	43.61S	172.66E	9–0	4.6L,4.3b		
NEIC	III	01 09 42 09.1	43.61S	172.65E	8	4.6L,4.1W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.1km az=136.9.
IDC Error ellipse: s-maj=55.3km s-min=17.1km az=171.0.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s10 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.45 $M_{\theta\theta}$1.50 $M_{\phi\phi}$-1.05 $M_{r\theta}$-0.12 $M_{\theta\phi}$-1.36 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s72.00000°,δ66.00000°,λ-164.00000°. NP2:ϕ_s335.00000°,δ75.00000°,λ-25.00000°. Principal axes: T 2.1200,Plg6.0000°,Azm25.0000°; N 0.0000,Plg61.0000°,Azm126.0000°; P -2.1100,Plg28.0000°,Azm292.0000° M_o2.10000×10^{15}

(502) Arkansas

ISC	**III**	**01 10 56 19.1–.80**	**35.32N–.02**	**92.36W–.02**	**7–5**		**160**	**0-18**
NEIC	III	01 10 56 20.2	35.29N	92.34W	2	3.2W		**¶16442164**

ISC Event type fe.
NEIC Event type fe. Felt at Benton, Conway, De Valls Bluff, Gassville, Harrison, Pine Bluff, Quitman, Sheridan and Springdale. Also felt at Memphis, Tennessee. After CERI. Moment Tensor Solution. s4 Moment tensor: Scale 10^{13}Nm; M_{rr}0.95 $M_{\theta\theta}$5.25 $M_{\phi\phi}$-6.20 $M_{r\theta}$-2.24 $M_{\theta\phi}$5.43 $M_{\phi r}$-2.12 Best double couple: NP1:ϕ_s295.00000°,δ70.00000°,λ10.00000°. NP2: ϕ_s202.00000°,δ81.00000°,λ160.00000°. Principal axes: T 8.5100,Plg21.0000°,Azm157.0000°; N 0.0000,Plg68.0000°,Azm358.0000°; P -8.5100,Plg7.0000°,Azm250.0000° M_o8.50000×10^{13}

(362) Western Caucasus

ISC	**III**	**01 11 26 59.7–.93**	**43.67N–.05**	**39.87E–.03**	**9–7**	**3.6b**	**85**	**0-45**
MOS	III	01 11 26 56.5–1.2	43.51N	39.54E	10	4.1b		**¶17193067**
IDC	III	01 11 26 58.0–.84	43.70N	39.94E	0	3.7,3.7s		
ISCJB	III	01 11 26 59.4–.53	43.70N–.03	39.72E–.04	12–4	3.5s,3.5b		
CSEM	III	01 11 27 00.1–.21	43.66N	39.85E	10	4.1b,3.5b		

ISC Event type ke.
MOS Event type fe. Error ellipse: s-maj=8.1km s-min=6.9km az=89.2. Felt (II-III) at Sochi. Moment Tensor Solution.
IDC Error ellipse: s-maj=18.7km s-min=8.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.1km az=39.4.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.5km az=36.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**01 14 12 53.0–1.9**	**37.14N–.05**	**141.51E–.07**	**24–12**	**3.9b**	**40**	**1-90**
NIED	III	01 14 12 00	37.20N	141.50E	47	4.0W		**¶600535490**
ISCJB	III	01 14 12 53.1–1.0	37.15N–.05	141.60E–.08	41–8	3.8b		
JMA	III	01 14 12 54.3–.10	37.16N	141.47E	47–1	4.0		
IDC	III	01 14 12 56.5–2.4	37.19N	141.59E	55–21	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ22.00000°,λ93.00000°. NP2:ϕ_s17.00000°,δ68.00000°,λ89.00000°. M_o1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.1km az=30.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=11.6km az=129.0.

(76) Off coast of central America

ISC	**III**	**01 14 56 54.8–1.1**	**12.77N–.06**	**88.95W–.05**	**51–11**	**4.3b,3.2s**	**90**	**1-148**
ISCJB	III	01 14 56 54.0–.47	12.77N–.04	88.92W–.04	57–4	4.2b,3.2s		**¶16173022**
INET	III	01 14 56 53.7	12.78N	88.97W	16	4.3L,3.2s		
CASC	III	01 14 56 54.9–5.9	12.82N	88.94W	37–15	4.4b,4.2		
NEIC	III	01 14 56 55.6–1.4	12.81N	88.90W	54–11	4.4b,4.1		
IDC	III	01 14 56 57.0–1.7	12.96N	88.72W	67–17	4.0,3.9		
UPA	III	01 14 56 58.7	13.22N	88.30W	10	4.0,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=2.9km az=41.9.
CASC Error ellipse: s-maj=12.4km s-min=12.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=23.0km s-min=8.6km az=225.0. Felt [II] at San Salvador.
IDC Error ellipse: s-maj=30.3km s-min=10.2km az=46.0.

(246) Southwestern Ryukyu Islands

ISC	**III**	**01 23 26 57.5–.43**	**24.75N–.04**	**125.24E–.03**	**27–2**	**4.7b,3.9s**	**365**	**0-169**
NIED	III	01 23 26 00	24.80N	125.20E	14	4.6W,3.9s		**¶16170164**
IDC	III	01 23 26 53.4–.41	24.82N	125.11E	0	4.5,4.5		
BJI	III	01 23 26 56.3	24.58N	125.24E	35	4.7b,4.4s		
JMA	III	01 23 26 56.6–.10	24.76N	125.22E	25–1	4.9,4.4s		
ISCJB	III	01 23 26 56.1–.27	24.77N–.02	125.22E–.02	27–1	4.6b,3.9s		
MOS	III	01 23 26 57.3–1.3	24.83N	125.16E	33	4.8b,3.9s		
NEIC	III	01 23 26 58.1–1.4	24.80N	125.14E	29–9	4.9b,3.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ42.00000°,λ-61.00000°. NP2:ϕ_s122.00000°,δ54.00000°,λ-114.00000°. M_o7.89000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.5km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.5km az=151.6.
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=107.8.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=138.0. Recorded [3 JMA] on Miyako-jima and [1 JMA] on Iriomote-jima, Ishigaki-jima and Tarama-shima.

(62) Mexico-Guatemala border region

ISC	**III**	**02 00 59 53.1–.40**	**16.11N–.04**	**91.47W–.03**	**21–3**	**4.5b,3.8s**	**268**	**1-144**
IDC	III	02 00 59 46.5–1.0	15.81N	91.33W	0	4.1,4.0		**¶16173032**
MEX	III	02 00 59 52.7–.58	16.04N	91.36W	34–25	4.6,4.0		
NEIC	III	02 00 59 52.0	16.06N	91.38W	20	4.5b,4.2		
ISCJB	III	02 00 59 54.5–.77	16.24N–.03	91.56W–.03	33–6	4.4b,3.9s		
BJI	III	02 00 59 57.0	16.30N	91.10W	24	4.4b,3.9s		
CASC	III	02 00 59 58.6–.98	15.11N	92.41W	35–999	4.6,4.5b		

ISC Event type fe.
IDC Error ellipse: s-maj=21.6km s-min=14.5km az=23.0.
MEX Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0.
NEIC Event type fe. Felt at Coban and San Cristobal Verapaz. After MEX.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.1km az=163.7.
CASC Error ellipse: s-maj=297.8km s-min=939.7km az=-1.0.

(238) Ryukyu Islands

ISC	**III**	**02 03 08 10.1–.79**	**29.31N–.04**	**130.38E–.05**	**44–6**	**4.5b,3.8s**	**145**	**1-115**
NIED	III	02 03 08 00	29.30N	130.50E	23	4.3W,3.8s		**¶16170172**
IDC	III	02 03 08 03.7–.74	29.36N	130.32E	0	4.3,4.2		
BJI	III	02 03 08 06.7	29.04N	130.56E	42	4.8b,4.4b		
MOS	III	02 03 08 07.4–.91	29.26N	130.46E	42	4.7b,4.4b		
JMA	III	02 03 08 08.1–.30	29.25N	130.51E	27–4	4.1,4.4b		
ISCJB	III	02 03 08 08.9–.45	29.27N–.03	130.45E–.05	54–3	4.4b,3.7s		
NEIC	III	02 03 08 10.4–.84	29.31N	130.36E	49–7	4.4b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ26.00000°,λ85.00000°. NP2:ϕ_s45.00000°,δ64.00000°,λ92.00000°. M_o2.91000×10^{15}
IDC Error ellipse: s-maj=18.5km s-min=16.7km az=126.0.
MOS Error ellipse: s-maj=11.1km s-min=5.8km az=105.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.9km az=26.9.

NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=7.2km az=141.0. Recorded [1 JMA] on Akuseki-jima, Nakano-shima and Suwanose-jima.

(221) Kuril Islands

ISC	**III**	**02 05 59 51.8–.42**	**44.38N–.05**	**149.14E–.04**	**40–3**	**4.8b,4.0s**	**798**	**1-152**
NIED	III	02 05 59 00	44.50N	149.10E	44	4.7W,4.0s		**¶16170175**
BJI	III	02 05 59 48.8	44.50N	149.61E	55	5.0b,4.7b		
ISCJB	III	02 05 59 50.4–.38	44.42N–.02	149.07E–.02	39–3	4.8b,4.0s		
MOS	III	02 05 59 51.6–1.0	44.55N	149.03E	45	5.0b,4.0s		
JMA	III	02 05 59 51.7–.40	44.50N	149.09E	30	5.1,4.0s		
NEIC	III	02 05 59 52.8–.43	44.47N	148.98E	42–3	4.9b,4.0s		
SKHL	III	02 05 59 52.6–.30	44.45N	149.17E	52–3	5.2s,5.2b		
IDC	III	02 05 59 53.1–2.0	44.51N	149.00E	46–18	4.7,4.6		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ25.00000°,λ16.00000°. NP2:ϕ_s85.00000°,δ83.00000°,λ114.00000°. M_o1.35000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.5km az=159.0.

MOS Event type fe. Error ellipse: s-maj=6.2km s-min=4.3km az=105.3. Felt (II-III) at Yuzhno-Kuril'sk. Moment Tensor Solution.

JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=152.0. Felt [III] at Yuzhno-Kuril'sk.

SKHL Event type fe. Felt (II-III) at Kurilsk.

IDC Error ellipse: s-maj=13.6km s-min=9.9km az=148.0.

(2) Southern Alaska

ISC	**III**	**02 07 19 44.9–.72**	**60.13N–.03**	**152.70W–.04**	**116–6**	**4.1b**	**124**	**0-64**
ISCJB	III	02 07 19 43.7–.22	60.12N–.02	152.69W–.04	122–2	4.1b		**¶16442170**
IDC	III	02 07 19 44.6–2.0	60.15N	152.79W	108–28	4.1,3.8		
NEIC	III	02 07 19 45.9	60.11N	152.74W	111	3.6,3.8		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=41.5.

IDC Error ellipse: s-maj=34.8km s-min=20.5km az=133.0.

NEIC Event type fe. Felt [III] at Homer. Also felt at Anchor Point. After AEIC.

(162) South Island

WEL	**III**	**02 12 48 49.5–.06**	**43.59S**	**172.50E**	**5**	**3.5L**		
								¶600710335

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**III**	**02 13 55 05.1–.10**	**43.59S**	**172.73E**	**10–0**	**4.0L**		
NEIC	III	02 13 55 05.7	43.57S	172.70E	5	3.9L		**¶16177109**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

NEIC Event type fe. Felt in Canterbury. After WEL.

(162) South Island

WEL	**III**	**02 16 28 36.9–.09**	**43.52S**	**172.72E**	**10–0**	**3.6L**		
								¶16177110

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(96) Near north coast of Colombia

ISC	**III**	**02 18 50 48.1–.30**	**8.56N–.03**	**76.90W–.03**	**34–0**	**5.5b,5.3s**	**1342**	**2-173**
ISCJB	III	02 18 50 46.1–.70	8.68N–.02	76.92W–.01	29–5	5.5b,5.3s		**¶16176414**
MOS	III	02 18 50 48.2–1.0	8.61N	77.06W	44	5.5b,5.3s		
NEIC	III	02 18 50 49.0–.00	8.56N	76.91W	39	5.5b,5.3s		
NEIC	III	02 18 50 49.4–.15	8.60N	76.86W	44	5.7W,5.6b		
GCMT	III	02 18 50 49.4–.10	8.64N	76.82W	40–0	5.8W,5.6b		
IDC	III	02 18 50 49.1–.51	8.52N	77.03W	45–4	5.2s,5.2		
RSNC	III	02 18 50 49.5–.89	8.61N	76.90W	32–27	5.2L,5.2		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=33.3.

MOS Error ellipse: s-maj=7.5km s-min=4.8km az=104.9.

NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-1.90 $M_{r\theta}$-2.30 $M_{\theta\phi}$1.10 $M_{\phi r}$3.30 Best double couple: NP1:ϕ_s325.00000°,δ76.00000°,λ83.00000°. NP2:ϕ_s172.00000°,δ15.00000°,λ116.00000°. Principal axes: T 4.3000,Plg58.0000°,Azm226.0000°; N 0.5000,Plg6.0000°,Azm327.0000°; P -4.8000,Plg31.0000°,Azm61.0000° M_o5.00000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=55.0. Felt [III] at Medellin and [II] at Cartagena and Santa Marta. Also felt at Apartado, Bucaramanga, Monteria, Pereira, Tolu and Valledupar. Felt [IV] at Ancon, [III] at Panama and [II] at San Carlos, Panama. Also felt at Balboa, Cerro Azul, Kanir-Dup, La Chorrera, Meteti and Pacora. Felt [III] at Maracaibo, Venezuela.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c228; s133,c336;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}3.32±.05 $M_{\theta\theta}$1.45±.04; $M_{\phi\phi}$-4.77±.05; $M_{r\theta}$-2.19±.06; $M_{\theta\phi}$2.45±.04; $M_{\phi r}$2.24±.06; Best double couple: NP1:ϕ_s318.00000°,δ66.00000°,λ62.00000°. NP2:ϕ_s191.00000°,δ36.00000°,λ137.00000°. Principal axes: T 4.8030,Plg59.0000°,Azm188.0000°; N 1.6550,Plg25.0000°,Azm330.0000°; P -6.4580,Plg16.0000°,Azm68.0000° M_o5.63000×10^{17}

IDC Error ellipse: s-maj=14.7km s-min=9.5km az=54.0.

RSNC Error ellipse: s-maj=8.0km s-min=5.9km az=-1.0.

(40) California-Nevada border region

ISC	**III**	**03 00 29 00.9–1.0**	**37.41N–.02**	**118.38W–.03**	**13–9**		**43**	**0-5**
ISCJB	III	03 00 28 59.8–.60	37.46N–.03	118.37W–.03	3–6			**¶16911898**
NEIC	III	03 00 29 01.1	37.40N	118.38W	14	3.1L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.7km az=17.2.

NEIC Event type fe. Felt [II] at Bishop. Also felt at Independence and Tollhouse. After NCEDC.

(162) South Island

WEL	**III**	**03 02 16 52.0–.07**	**43.58S**	**172.72E**	**6–0**	**3.5L**		
								¶16177115

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(40) California-Nevada border region

ISC	**III**	**03 02 58 16.9–.98**	**37.41N–.02**	**118.37W–.02**	**14–9**		**54**	**0-7**
NEIC	III	03 02 58 17.2	37.40N	118.37W	15	3.7L,3.5W		**¶16359825**

ISC Event type fe.

NEIC Event type fe. Felt [III] at Bishop. Also felt at Big Pine. After NCEDC. Moment Tensor Solution. M_o2.20000×10^{14}

(39) Central California

ISC	**III**	**03 05 33 03.7–2.0**	**36.82N–.05**	**121.67W–.07**	**5–10**		**33**	**0-5**
NEIC	III	03 05 33 07.0	36.81N	121.54W	7	3.5L		**¶16425222**

ISC Event type fe.

NEIC Event type fe. Felt [III] at Carmel, Hollister and Salinas; [II] at Aptos, Castroville, Marina, Monterey, San Juan Bautista and Seaside. Also felt at Carmel Valley, Felton, Los Gatos, Gilroy, San Jose and Watsonville. After NCEDC.

(162) South Island

WEL	**III**	**03 05 53 08.6–.06**	**43.59S**	**172.67E**	**4–0**	**3.9L**		
NEIC	III	03 05 53 08.2	43.58S	172.68E	5	3.9L		**¶16177117**

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt in Canterbury. After WEL.

(78) Costa Rica

ISC	**III**	**03 06 42 16.8–.71**	**9.25N–.05**	**84.04W–.04**	**47–6**	**4.0b,3.5s**	**82**	**0-84**
NEIC	III	03 06 42 15.1	9.13N	84.01W	31	4.5,4.5b		**¶16193995**
ISCJB	III	03 06 42 16.1–.46	9.24N–.05	84.05W–.04	55–4	4.0b,3.5s		
CASC	III	03 06 42 16.3–1.6	9.23N	84.03W	31–4	4.5b,4.5		
IDC	III	03 06 42 18.1–1.4	9.38N	83.99W	59–13	4.1,4.0		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at San Jose and [III] at Escazu and Quepos. Felt in much of the Valle Central. After CASC.

ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=3.9km az=37.5.

CASC Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.

IDC Error ellipse: s-maj=27.8km s-min=11.3km az=40.0.

(135) Near coast of central Chile

ISC	**III**	**03 07 58 57.2–.58**	**37.26S–.03**	**73.44W–.05**	**31–3**	**5.1b,4.7s**	**713**	**0-178**
IDC	III	03 07 58 52.1–.53	37.24S	73.45W	0	5.1,5.0		**¶16176485**
NEIC	III	03 07 58 53.0	37.34S	73.86W	18	5.5L,5.1b		
GUC	III	03 07 58 53.4–.46	37.34S	73.86W	18–3	5.5L,5.1b		
GCMT	III	03 07 58 53.0–.20	37.45S	73.83W	23–0	5.2W,5.1b		
ISCJB	III	03 07 58 55.6–1.1	37.25S–.03	73.42W–.05	31–7	5.1b,4.7s		
BJI	III	03 07 58 55.8	36.78S	73.76W	32	5.5b,5.5s		
MOS	III	03 07 58 56.7–1.3	37.13S	73.29W	33	5.3b,4.8s		

ISC Event type fe.

IDC Error ellipse: s-maj=18.9km s-min=14.6km az=67.0.

NEIC Event type fe. Felt [V] at Concepcion, Coronel, Hualpen, Lota and San Pedro de la Paz; [IV] at Arauco, Cabrero, Chiguayante, Chillan Viejo, Florida, La Laja, Penco and Talcahuano; [III] at Angol, Chillan, Curanilahue, Los Alamos, Los Sauces and Renaico; [II] at Collipulli. Also felt at Temuco. After GUC.

GUC Error ellipse: s-maj=1.9km s-min=4.3km az=-1.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c78; s78,c118; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.46±.23 $M_{\theta\theta}$-0.25±.13; $M_{\phi\phi}$-5.21±.16; $M_{r\theta}$0.82±.20; $M_{\theta\phi}$0.21±.10; $M_{\phi r}$-5.52±.29; Best double couple: NP1:ϕ_s173.00000°,δ68.00000°,λ87.00000°. NP2:ϕ_s1.00000°,δ22.00000°,λ97.00000°. Principal axes: T 7.8580,Plg67.0000°,Azm78.0000°; N -0.2690,Plg3.0000°,Azm174.0000°; P -7.5880,Plg23.0000°,Azm266.0000° M_o7.72300×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=165.0.

MOS Error ellipse: s-maj=16.9km s-min=7.9km az=101.8.

(280) Banda Sea

ISC	**III**	**03 08 12 11.9–.40**	**6.40S–.03**	**130.22E–.03**	**165–3**	**4.8b**	**345**	**2-156**
BJI	III	03 08 12 06.5	7.16S	129.95E	167	5.0b,4.7b		**¶16176486**
ISCJB	III	03 08 12 11.3–.30	6.41S–.02	130.17E–.02	175–3	4.8b,4.7b		
MOS	III	03 08 12 11.8–.90	6.31S	130.08E	176	4.9b,4.7b		
IDC	III	03 08 12 12.0–.70	6.32S	130.07E	159–6	4.9,4.4		
GCMT	III	03 08 12 12.4–.50	6.32S	130.19E	183–4	5.0W,4.4		
NEIC	III	03 08 12 12.4–.53	6.37S	130.11E	164–5	5.0b,4.4		
DJA	III	03 08 12 12.6–.20	6S–2.0	130E–2.0	167–3	5.5b,5.5		

ISC Event type fe.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s64,c82;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.15±.21 $M_{\theta\theta}$-0.18±.23; $M_{\phi\phi}$0.03±.25; $M_{r\theta}$-0.51±.16; $M_{\theta\phi}$2.34±.24; $M_{\phi r}$3.10±.17; Best double couple: NP1:ϕ_s355.00000°,δ89.00000°,λ126.00000°. NP2:ϕ_s87.00000°,δ36.00000°,λ2.00000°. Principal axes: T 3.6890,Plg36.0000°,Azm297.0000°; N 0.4290,Plg36.0000°,Azm174.0000°; P -4.1180,Plg34.0000°,Azm55.0000° M_o3.90300×10^{16}

NEIC Event type fe. Felt at Darwin, Australia.

(259) Mindanao

ISC	**III**	**03 09 09 36.3–1.1**	**9.45N–.03**	**125.96E–.05**	**28–7**	**4.5b,4.0s**	**118**	**1-165**
IDC	III	03 09 09 31.1–.51	9.58N	126.41E	0	4.6L,4.4		**¶16193997**
ISCJB	III	03 09 09 33.4–.87	9.49N–.02	126.04E–.04	22–6	4.4b,4.0s		
MAN	III	03 09 09 35	9.40N	125.85E	8	5.3b,4.5s		
NEIC	III	03 09 09 39.2–1.4	9.52N	126.20E	59–13	4.5b,4.5s		
BJI	III	03 09 09 47.2	10.08N	125.92E	89	5.1b,4.6b		

ISC Event type fe.

IDC Error ellipse: s-maj=23.7km s-min=11.2km az=83.0.

ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=167.7.

MAN Event type fe. INTENSITY V - CANTILAN AND CARRASCAL SURIGAO DEL SUR; INTENSITY III - GENERAL LUNA SURIGAO DEL NORTE; INTENSITY II - SOCORRO AND BACUAG SURIGAO DEL NORTE.

NEIC Event type fe. Error ellipse: s-maj=14.0km s-min=7.3km az=74.0. Felt [V PIVS] at Cantilan and Carrascal; [III PIVS] at Cortes and General Luna; [II PIVS] at Bacuag, Lanuza, Socorro and Tandag.

(259) Mindanao

ISC	**III**	**03 09 27 35.6–1.4**	**9.49N–.03**	**126.01E–.05**	**15–9**	**4.0b**	**44**	**1-95**
IDC	III	03 09 27 33.2–.68	9.41N	126.15E	0	4.2,4.2L		**¶16442177**
ISCJB	III	03 09 27 35.8–.99	9.51N–.03	126.05E–.05	25–7	4.0b,4.2L		
MAN	III	03 09 27 36	9.53N	126.01E	5	4.9b,3.9s		
NEIC	III	03 09 27 38.6–1.9	9.39N	126.12E	39–19	4.8b,3.9s		

ISC Event type fe.

IDC Error ellipse: s-maj=30.4km s-min=13.8km az=83.0.

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.6km az=159.1.

MAN Event type fe. INTENSITY II - CANTILAN SURIGAO DEL SUR.

NEIC Event type fe. Error ellipse: s-maj=21.6km s-min=9.2km az=73.0. Felt [II PIVS] at Cantilan.

(259) Mindanao

ISC	**III**	**03 09 41 30.7–1.3**	**9.47N–.03**	**126.00E–.05**	**16–8**	**4.1b**	**47**	**1-146**
IDC	III	03 09 41 28.4–.59	9.51N	126.22E	0	4.5L,4.2		**¶16442178**
ISCJB	III	03 09 41 30.0–1.2	9.54N–.03	126.11E–.05	21–8	4.1b,4.2		
MAN	III	03 09 41 32	9.31N	125.74E	6	5.0b,4.1s		
NEIC	III	03 09 41 33.5–.37	9.48N	126.18E	35	4.6b,4.1s		

ISC Event type fe.

IDC Error ellipse: s-maj=29.1km s-min=12.4km az=83.0.

ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=165.3.

MAN Event type fe. INTENSITY II - CANTILAN SURIGAO DEL SUR; SOCORRO DINAGAT ISLAND.

NEIC Event type fe. Error ellipse: s-maj=17.9km s-min=7.5km az=83.0. Felt [II PIVS] at Cantilan and [I PIVS] at Socorro.

(221) Kuril Islands

ISC	**III**	**03 11 52 37.5–.38**	**46.96N–.03**	**151.00E–.03**	**179–2**	**5.2b**	**1532**	**3-154**
NIED	III	03 11 52 00	45.90N	151.30E	175	5.6W		**¶16193999**
MOS	III	03 11 52 34.7–1.0	47.06N	150.97E	161	5.3b		
ISCJB	III	03 11 52 35.3–.26	46.92N–.02	151.07E–.02	170–2	5.2b		
SKHL	III	03 11 52 35.8–.20	46.86N	151.22E	157–5	5.7,5.7b		
BJI	III	03 11 52 36.6	47.09N	151.09E	188	5.0b,5.0b		
GCMT	III	03 11 52 37.9–.10	46.86N	151.21E	175–0	5.4W,5.0b		
NEIC	III	03 11 52 37.9–.10	46.97N	150.93E	180	5.3b,5.0b		
IDC	III	03 11 52 37.3–.68	46.96N	151.01E	177–5	5.2,4.8		
JMA	III	03 11 52 39.1–.50	45.88N	151.34E	186	5.2,4.8		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ31.00000°,λ-1.00000°. NP2:ϕ_s74.00000°,δ89.00000°,λ-121.00000°. M_o2.74000×10^{17}

MOS Event type fe. Error ellipse: s-maj=7.4km s-min=5.6km az=81.6. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=165.9.

SKHL Event type fe. Felt (II) at Yushno-Kurilsk.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s101,c171; s126,c248; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.95±.02 $M_{\theta\theta}$1.81±.02; $M_{\phi\phi}$-0.85±.02; $M_{r\theta}$0.48±.02; $M_{\theta\phi}$-0.28±.02; $M_{\phi r}$0.68±.02; Best double couple: NP1:ϕ_s242.00000°,δ66.00000°,λ-137.00000°. NP2:ϕ_s131.00000°,δ51.00000°,λ-32.00000°. Principal axes: T 1.9010,Plg9.0000°,Azm4.0000°; N -0.2280,Plg42.0000°,Azm266.0000°; P -1.6760,Plg47.0000°,Azm103.0000° M_o1.78800×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=1.9km az=157.0. Felt [II] at Yuzhno-Kuril'sk. Recorded [1 JMA] in eastern Hokkaido.

IDC Error ellipse: s-maj=9.0km s-min=7.0km az=117.0.

JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.

(135) Near coast of central Chile

ISC	**III**	**03 12 35 23.7–.86**	**37.28S–.08**	**73.69W–.10**	**23**	**4.0s,3.9b**	**31**	**1-160**
IDC	III	03 12 35 20.6–1.1	37.28S	73.44W	0	4.2,4.1s		**¶16442179**
NEIC	III	03 12 35 22.0	37.12S	73.89W	34	4.3L,4.1s		
ISCJB	III	03 12 35 22.1–.72	37.27S–.06	73.7W–.10	23	4.2s,3.9b		
GUC	III	03 12 35 22.0–.61	37.12S	73.89W	34–4	4.3L,3.9b		

ISC Event type fe.

IDC Error ellipse: s-maj=34.0km s-min=18.1km az=61.0.

NEIC Event type fe. Felt [III] at Arauco and Canete; [II] at Concepcion, Coronel, Penco, Talcahuano and Tome. After GUC.

ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.3km az=31.4.

GUC Error ellipse: s-maj=5.7km s-min=5.2km az=-1.0.

(263) Talaud Islands

ISC	**III**	**03 12 52 09.8–.30**	**4.95N–.02**	**126.66E–.04**	**87–2**	**5.5b**	**700**	**2-172**
BJI	III	03 12 52 05.5	4.61N	126.41E	82	5.4b,5.3b		**¶16194002**
MOS	III	03 12 52 06.0–.94	4.97N	126.50E	65	5.7b,4.2s		
MAN	III	03 12 52 07	4.57N	126.69E	60	6.0b,5.6s		
ISCJB	III	03 12 52 08.9–.29	4.94N–.01	126.61E–.02	93–2	5.4b,5.6s		
IDC	III	03 12 52 08.6–.96	4.95N	126.53E	74–7	5.2,5.0		
NEIC	III	03 12 52 10.3–.55	4.95N	126.57E	90–5	5.4b,5.0		
GCMT	III	03 12 52 10.3–.10	4.88N	126.66E	63–1	5.4W,5.0		
DJA	III	03 12 52 10.5–.30	5N–2.0	127E–2.0	81–3	6.0,5.8b		

ISC Event type fe.

MAN Event type fe. INTENSITY III - COMPOSTELA VALLEY; MALITA DAVAO DEL SUR; INTENSITY II - DAVAO CITY.

ISCJB Event type fe.

NEIC Event type fe. Felt [III PIVS] at Compostela and Malita; [II PIVS] at Davao; [I PIVS] at General Santos.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c180; s118,c216;Duration: 1s2 Moment tensor: Scale 10^{17}Nm;

M_{rr}0.64±.03 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$-0.69±.03; $M_{r\theta}$0.24±.02; $M_{\theta\phi}$-0.78±.02; $M_{\phi r}$1.35±.02;
Best double couple: NP1:ϕ_s9.00000°,δ76.00000°,λ69.00000°. NP2:ϕ_s246.00000°,δ25.00000°
,λ144.00000°. Principal axes: T 1.5150,Plg55.0000°,Azm254.0000°; N 0.3430,Plg20.0000°
,Azm15.0000°; P -1.8580,Plg28.0000°,Azm116.0000° $M_0$1.68700×10^{17}

(159) North Island

ISC	**III**	**03 13 19 20.1–.77**	**41.11S–.02**	**175.08E–.02**	**33–3**	**4.4b**	**151**	**0-152**
IDC	III	03 13 19 14.4–.88	40.87S	175.21E	0	4.3,4.2		¶16194003
ISCJB	III	03 13 19 19.5–.22	41.18S–.02	175.13E–.03	48–2	4.4b,3.4s		
IASPE	III	03 13 19 20.3–1.1	41.09S–.03	175.07E–.03	33–2	4.4b,3.4s		
WEL	III	03 13 19 20.8–.04	41.08S	175.08E	29–0	4.6L,3.4s		
NEIC	III	03 13 19 20.8	41.07S	175.10E	30	4.7L,4.4b		

ISC Event type fe.
IDC Error ellipse: s-maj=35.7km s-min=26.7km az=14.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.7km az=40.8.
IASPE Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=142.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt from Hawke''s Bay to Nelson, maximum reported intensity MM 6.
NEIC Event type fe. Felt [IV] in the Wellington area. Felt widely in the southern part of the North Island and the northern part of the South Island. After WEL.

(162) South Island

WEL	**III**	**03 14 24 20.5–.07**	**43.59S**	**172.65E**	**4–0**	**3.6L**		
								¶16293841

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 5.

(259) Mindanao

ISC	**III**	**03 15 11 60.0–.33**	**9.52N–.02**	**126.05E–.03**	**32–2**	**5.3b,4.7s**	**660**	**1-171**
BJI	III	03 15 11 56.3	9.18N	126.17E	43	5.2b,5.1s		¶16194008
IDC	III	03 15 11 58.7–1.8	9.49N	125.93E	24–11	5.0,5.0L		
ISCJB	III	03 15 11 59.2–.36	9.52N–.02	126.07E–.02	40–3	5.2b,4.8s		
MAN	III	03 15 11 59	9.51N	125.90E	3	6.0b,5.7s		
MOS	III	03 15 11 59.6–1.3	9.46N	125.93E	48	5.5b,4.7s		
DJA	III	03 15 12 00.6–1.1	10N–4.0	126E–2.0	25–8	7.9,6.1		
NEIC	III	03 15 12 01.4–.55	9.46N	125.94E	50–5	5.4b,6.1		
GCMT	III	03 15 12 01.4–.10	9.50N	125.95E	19–0	5.5W,6.1		
KLM	III	03 15 12 02.1	9.26N	126.40E	49	6.0s,5.4b		

ISC Event type de.
IDC Error ellipse: s-maj=13.3km s-min=7.7km az=79.0.
ISCJB Event type de. Error ellipse: s-maj=3.7km s-min=2.4km az=160.5.
MAN Event type fe. INTENSITY VI - CARRASCAL SURIGAO DEL SUR; INTENSITY V- CLAVER SURIGO DEL NORTE; INTENSITY III - BUTUAN CITY; BUENAVISTA AGUSAN DEL SUR; SOCORRO AND MAINIT SURIGAO DEL NORTE.
MOS Error ellipse: s-maj=8.4km s-min=4.2km az=111.4.
NEIC Event type de. Error ellipse: s-maj=4.3km s-min=3.0km az=77.0. Several buildings damaged in Surigao. Felt [VI PIVS] at Cantilan and Carrascal; [V PIVS] at Claveria; [III PIVS] at Buenavista, Butuan, Mainit and Socorro; [II PIVS] at Bislig and Surigao; [I PIVS] at Cagayan de Oro. Also felt at Bayugan and Dapa.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c175; s116,c227; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.43±.03 $M_{\theta\theta}$0.71±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$-0.21±.04; $M_{\theta\phi}$1.51±.02; $M_{\phi r}$1.10±.06; Best double couple: NP1:ϕ_s193.00000°,δ77.00000°,λ-146.00000°. NP2:ϕ_s94.00000°,δ57.00000°,λ-16.00000°. Principal axes:
T 1.9170,Plg13.0000°,Azm320.0000°; N 0.1180,Plg54.0000°,Azm211.0000°
; P -2.0350,Plg33.0000°,Azm59.0000° $M_0$1.97600×10^{17}

(502) Arkansas

ISC	**III**	**03 15 31 48.8–.84**	**35.27N–.02**	**92.35W–.02**	**8–6**		**163**	**0-10**
NEIC	III	03 15 31 49.4	35.27N	92.37W	6	3.1W		¶601793740

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway, Marshall and Quitman. After CERI. Moment Tensor Solution. s5 Moment tensor: Scale 10^{13}Nm; M_{rr}0.10 $M_{\theta\theta}$6.27 $M_{\phi\phi}$-6.37 $M_{r\theta}$-0.79 $M_{\theta\phi}$-1.06 $M_{\phi r}$0.06 Best double couple: NP1:ϕ_s320.00000°,δ85.00000°,λ5.00000°. NP2:ϕ_s230.00000°,δ85.00000°,λ175.00000°. Principal axes: T 6.4600,Plg7.0000°
,Azm185.0000°; N 0.0000,Plg83.0000°,Azm5.0000°; P -6.4600,Plg0.0000°,Azm275.0000° $M_0$6.50000×10^{13}

(502) Arkansas

ISC	**III**	**03 15 55 24.7–.77**	**35.27N–.02**	**92.40W–.02**	**14–5**		**246**	**0-15**
NEIC	III	03 15 55 24.9	35.24N	92.39W	7	3.5W		¶601793741

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway and Edgemont. Also felt at Batesville, Clinton, Hardy, Heber Springs, Higden, Marshall, Mountain View, North Little Rock, Quitman, Timbo, Vilonia, West Helena, White Hall, Wynne and Yellville. After CERI. Moment Tensor Solution. s19 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.13 $M_{\theta\theta}$2.13 $M_{\phi\phi}$-2.00 $M_{r\theta}$-0.08 $M_{\theta\phi}$0.68 $M_{\phi r}$0.52 Best double couple: NP1:ϕ_s125.00000°,δ80.00000°,λ-10.00000°. NP2:ϕ_s217.00000°,δ80.00000°,λ-170.00000°. Principal axes: T 2.2400,Plg0.0000°,Azm351.0000°
; N 0.0000,Plg76.0000°,Azm260.0000°; P -2.2400,Plg14.0000°,Azm81.0000°
$M_0$2.20000×10^{14}

(502) Arkansas

ISC	**III**	**03 17 02 55.8–.96**	**35.26N–.02**	**92.37W–.02**	**8–8**		**59**	**0-11**
NEIC	III	03 17 02 56.1	35.25N	92.37W	4	2.5		¶16359828

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Quitman. After CERI.

(162) South Island

WEL	**III**	**03 17 49 57.8–.05**	**43.61S**	**172.65E**	**8–0**	**3.6L**		
								¶16293842

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(502) Arkansas

ISC	**III**	**03 19 03 03.7–.96**	**35.27N–.03**	**92.35W–.03**	**6–8**		**36**	**0-4**
NEIC	III	03 19 03 04.2	35.25N	92.36W	4	2.5		¶16442182

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(456) Montana

ISC	**III**	**03 20 39 45.0–.00**	**45.78N–.05**	**106.70W–.06**	**0**		**15**	**1-9**
IDC	III	03 20 39 46.6–1.4	45.42N	106.32W	0	3.3,3.1		¶17193207
NEIC	III	03 20 39 46.7–.56	45.85N	106.66W	0	2.8L,3.1		
ISCJB	III	03 20 39 46.1–.76	45.85N–.06	106.7W–.10	0	2.8L,3.1		

ISC Event type sm.
NEIC Event type fm. 5 km [3 miles] SW of Colstrip. Suspected Mining explosion.
ISCJB Event type fm.

(259) Mindanao

MAN	**III**	**03 21 02 57**	**9.45N**	**125.87E**	**9**	**4.4b,3.4s**		
								¶601668656

MAN Event type fe. INTENSITY II - CARRASCAL SURIGAO DEL SUR.

(162) South Island

WEL	**III**	**03 21 35 25.0–.06**	**43.60S**	**172.54E**	**6–0**	**3.6L**		
								¶16194021

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(159) North Island

WEL	**III**	**03 23 55 29.7–.05**	**41.08S**	**175.09E**	**28–0**	**3.7L**		
								¶16194028

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt between Manawatu, Nelson and Wairarapa, maximum reported intensity MM 4.

(224) Hokkaido region

ISC	**III**	**04 09 48 57.8–.59**	**42.64N–.04**	**141.40E–.03**	**118–5**	**4.2b**	**111**	**0-87**
NIED	III	04 09 48 00	42.60N	141.40E	101	4.1W		¶16442183
ISCJB	III	04 09 48 56.9–.23	42.64N–.03	141.40E–.04	125–2	4.2b		
MOS	III	04 09 48 56.7–1.2	42.69N	141.25E	121	4.2b		
IDC	III	04 09 48 57.9–.95	42.63N	141.38E	118–7	4.2,4.0		
NEIC	III	04 09 48 57.9–.37	42.63N	141.39E	120–4	4.5b,4.0		
BJI	III	04 09 48 58.0	42.50N	141.10E	112	5.0b,4.7b		
JMA	III	04 09 48 58.3–.10	42.63N	141.43E	115–1	3.7,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ14.00000°,λ144.00000°. NP2:ϕ_s217.00000°,δ82.00000°,λ79.00000°. $M_0$1.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.7km az=140.7.
MOS Error ellipse: s-maj=9.2km s-min=6.0km az=92.6.
IDC Error ellipse: s-maj=12.2km s-min=9.5km az=134.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s38.00000°,δ87.00000°,λ-87.00000°. NP2:ϕ_s169.00000°,δ5.00000°,λ-139.00000°. Principal axes: T Plg42.0000°,Azm125.0000°
; N Plg3.0000°,Azm218.0000°; P Plg48.0000°,Azm312.0000°

(162) South Island

WEL	**III**	**04 17 14 38.9–.07**	**43.60S**	**172.64E**	**7–0**	**3.5L**		
								¶16268975

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(98) Trinidad

ISC	**III**	**04 18 42 06.3–1.3**	**10.87N–.03**	**61.82W–.04**	**66–9**		**54**	**0-6**
FUNV	III	04 18 42 06.9	10.86N	61.71W	48	2.9W		¶16852194
ISCJB	III	04 18 42 06.2–.65	10.90N–.03	61.82W–.04	67–9	2.9W		
TRN	III	04 18 42 07.5	10.98N	61.64W	31	3.1		
NEIC	III	04 18 42 08.9	10.98N	61.67W	28	3.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.2km az=36.4.
NEIC Event type fe. Felt [II] at Diego Martin and Santa Cruz. After TRN.

(460) Wyoming

ISC	**III**	**04 21 06 27.7–.66**	**43.81N–.02**	**105.22W–.02**	**0**		**78**	**1-20**
IDC	III	04 21 06 24.7–2.1	43.57N	105.25W	0	3.6,3.3		¶17193246
NEIC	III	04 21 06 27.5–.40	43.79N	105.20W	0	3.2L,3.3		
ISCJB	III	04 21 06 27.6–.25	43.81N–.02	105.28W–.02	0	3.2L,3.3		

ISC Event type sm.
NEIC Event type fm. 61 km [38 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(162) South Island

WEL	**III**	**04 21 32 30.9–.30**	**43.60S**	**171.83E**	**5**	**3.7L**		
								¶16196740

WEL Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.

(162) South Island

WEL	**III**	**04 21 49 06.2–.08**	**43.58S**	**172.62E**	**4–0**	**4.1L**		
NEIC	III	04 21 49 02.1	43.63S	172.85E	33	4.2L		¶16403008

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.

(135) Near coast of central Chile

ISC	**III**	**04 23 08 34.0–.90**	**28.41S–.04**	**71.22W–.07**	**40–7**	**4.5b**	**73**	**0-171**
SJA	III	04 23 08 25.2–.56	29.49S	71.34W	356–32	4.6L,4.3W		¶16196363
IDC	III	04 23 08 28.1–.69	28.51S	71.14W	0	4.3,4.2b		
GUC	III	04 23 08 33.8–.87	28.41S	71.17W	42–4	4.5L,4.2b		
NEIC	III	04 23 08 33.0	28.41S	71.17W	42	4.5b,4.2b		
ISCJB	III	04 23 08 34.0–.59	28.44S–.03	71.15W–.07	53–5	4.3b,3.6s		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Caldera, Copiapo, Freirina, Huasco, La Higuera, Los Loros, Tierra Amarilla and Vallenar. After GUC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**05 00 25 57.2–.80**	**38.52N–.04**	**142.12E–.07**	**46–7**	**3.8b**	**45**	**1-89**
NIED	III	05 00 25 00	38.50N	142.10E	50	3.9W		¶600536620
ISCJB	III	05 00 25 55.9–.87	38.51N–.04	142.12E–.09	49–7	3.7b		
JMA	III	05 00 25 56.5–.10	38.54N	142.10E	42–1	3.8		
IDC	III	05 00 25 57.7–.85	38.45N	142.03E	52–7	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ30.00000°,λ-136.00000°. NP2:ϕ_s67.00000°,δ70.00000°,λ-67.00000°. $M_0$8.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.4km az=19.1.
JMA Event type fe.
IDC Error ellipse: s-maj=16.5km s-min=14.8km az=141.0.

(219) Off east coast of Kamchatka Peninsula

ISC	**III**	**05 00 31 10.1–.43**	**52.77N–.04**	**160.84E–.03**	**29–2**	**5.0b,4.8s**	**1221**	**1-145**
KRSC	III	05 00 31 04.9–2.3	52.63N	161.29E	16–27	5.1L,4.8s		¶16195223
IDC	III	05 00 31 05.7–.39	52.80N	160.80E	0	4.8,4.8		
BJI	III	05 00 31 05.6	53.07N	160.41E	5	5.2s,5.1b		
GCMT	III	05 00 31 08.1–.60	52.69N	160.91E	21–1	4.9W,5.1b		
ISCJB	III	05 00 31 09.2–.35	52.64N–.02	161.06E–.02	40–2	5.0b,4.8s		
MOS	III	05 00 31 10.3–1.2	52.70N	160.80E	45	5.2b,4.2s		
NEIC	III	05 00 31 13.1–.58	52.80N	160.69E	50–5	4.9b,4.2s		

ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=8.1km az=163.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c41; s58,c75; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.33±.16 $M_{\theta\theta}$-0.78±.14; $M_{\phi\phi}$-1.55±.12; $M_{r\theta}$0.85±.27; $M_{\theta\phi}$-1.13±.09; $M_{\phi r}$-0.10±.22; Best double couple: NP1:ϕ_s52.00000°,δ52.00000°,λ110.00000°. NP2:ϕ_s200.00000°,δ42.00000°,λ66.00000°. Principal axes:
T 2.5810,Plg73.0000°,Azm19.0000°; N -0.1850,Plg16.0000°,Azm219.0000°
; P -2.3980,Plg5.0000°,Azm127.0000° $M_0$2.48900×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=1.9km az=171.4.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=99.8. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=2.7km az=168.0. Felt [II] at Petropavlovsk-Kamchatskiy.

(219) Off east coast of Kamchatka Peninsula

ISC	**III**	**05 00 35 32.8–.39**	**52.63N–.04**	**160.90E–.03**	**27–2**	**5.0s,5.0b**	**774**	**1-145**
KRSC	III	05 00 35 28.0–2.1	52.58N	161.34E	16–29	5.4L,5.0b		¶16195224
IDC	III	05 00 35 28.9–.41	52.77N	160.82E	0	4.8,4.8		
BJI	III	05 00 35 29.6	53.19N	160.50E	10	5.3s,5.2b		
ISCJB	III	05 00 35 32.4–.13	52.64N–.02	160.88E–.02	32	5.0b,5.0s		
MOS	III	05 00 35 33.8–1.2	52.66N	160.78E	46	5.3b,4.8s		
NEIC	III	05 00 35 35.9–.58	52.75N	160.74E	46–5	5.0b,4.8s		
GCMT	III	05 00 35 35.9–.20	52.66N	161.28E	18–0	5.2W,4.8s		

ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=8.4km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=159.8.
MOS Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=99.2. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=2.7km az=167.0. Felt [III] at Petropavlovsk-Kamchatskiy.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c127; s113,c211; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.72±.02 $M_{\theta\theta}$-0.18±.01; $M_{\phi\phi}$-0.53±.01; $M_{r\theta}$0.37±.03; $M_{\theta\phi}$-0.36±.01; $M_{\phi r}$0.35±.03; Best double couple: NP1:ϕ_s40.00000°,δ62.00000°,λ98.00000°. NP2:ϕ_s203.00000°,δ29.00000°,λ75.00000°. Principal axes:
T 0.8890,Plg71.0000°,Azm329.0000°; N 0.0260,Plg7.0000°,Azm217.0000°
; P -0.9150,Plg17.0000°,Azm124.0000° $M_0$0.90200×10^{17}

(162) South Island

WEL	**III**	**05 01 29 42.8–.07**	**43.60S**	**172.49E**	**5**	**3.5L**		
								¶16196148

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**III**	**05 03 39 31.6–.07**	**43.58S**	**172.72E**	**8–0**	**3.9L**		
NEIC	III	05 03 39 31.5	43.59S	172.72E	8	3.9L		¶16196149

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.

(218) Near east coast of Kamchatka Peninsula

ISC	**III**	**05 05 58 10.7–.30**	**52.82N–.03**	**158.85E–.03**	**96–2**	**4.5b**	**280**	**0-148**
BJI	III	05 05 58 03.3	52.89N	159.66E	93	5.0b,4.4b		¶16195231
MOS	III	05 05 58 10.0–1.1	52.85N	158.70E	105	4.5b,4.4b		
ISCJB	III	05 05 58 10.3–.24	52.84N–.03	158.80E–.04	108–1	4.5b,4.4b		
KRSC	III	05 05 58 10.1–.82	52.78N	159.11E	91–7	4.6L,4.4b		
IDC	III	05 05 58 11.8–.48	53.02N	158.70E	101–3	4.0,3.8		
NEIC	III	05 05 58 11.5–.42	52.87N	158.67E	103–3	4.7b,3.8		

ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=10.1km s-min=4.8km az=82.7. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.9km az=136.1.

KRSC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=7.9km az=164.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=3.9km az=180.0. Felt [III] at Petropavlovsk-Kamchatskiy.

(162) South Island

ISC	**III**	**05 06 34 02.0–1.0**	**43.52S–.03**	**172.76E–.03**	**5–6**	**4.3b,4.0s**	**109**	**0-154**
ISCJB	III	05 06 34 00.2–.57	43.62S–.03	172.85E–.04	10–3	4.5b,4.0s		**¶16195232**
BJI	III	05 06 34 00.2	43.86S	172.35E	3	5.5b,5.1b		
IDC	III	05 06 34 00.8–.94	43.52S	172.72E	0	4.4,4.3b		
WEL	III	05 06 34 02.8–.07	43.55S	172.72E	10–0	5.0L,4.3b		
NEIC	III	05 06 34 02.5	43.57S	172.73E	11	4.8L,4.7b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=42.7.
IDC Error ellipse: s-maj=47.5km s-min=13.5km az=170.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from Hawke''s Bay to Otago, maximum reported intensity MM 7.
NEIC Event type fe. Felt [IV] at Christchurch. Widely felt in Canterbury. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}1.60 $M_{\theta\theta}$1.46 $M_{\phi\phi}$-3.06 $M_{r\theta}$2.50 $M_{\theta\phi}$-8.20 $M_{\phi r}$-2.56 Best double couple: NP1:ϕ_s80.00000°,δ71.00000°,λ164.00000°. NP2:ϕ_s175.00000° ,δ75.00000°,λ20.00000°. Principal axes: T 9.3300,Plg25.0000°,Azm38.0000° ; N 0.0000,Plg65.0000°,Azm210.0000°; P -9.3300,Plg3.0000°,Azm307.0000° $M_0$9.30000×10^{15}

(162) South Island

WEL	**III**	**05 07 54 45.1–.10**	**43.54S**	**172.76E**	**7–0**	**3.8L**	
NEIC	III	05 07 54 45.0	43.54S	172.76E	8	3.8L	**¶16196150**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(256) Leyte

MAN	**III**	**05 08 12 01**	**10.31N**	**125.30E**	**26**	**4.0b,2.8L**	
							¶601668672

MAN Event type fe. INTENSITY III - ST BERNARD HINUNANGAN SOGOD SOUTHERN LEYTE; INTENSITY I - HINUNDAYAN SOUTHERN LEYTE.

(123) Northern Chile

ISC	**III**	**05 09 38 49.8–.30**	**20.24S–.03**	**69.16W–.05**	**100–2**	**4.7b**	**592**	**1-178**
ISCJB	III	05 09 38 47.5–.36	20.13S–.03	68.99W–.04	93–3	4.7b		**¶16196152**
MOS	III	05 09 38 48.9–1.1	20.28S	69.22W	98	5.0b		
GUC	III	05 09 38 49.9–.48	20.24S	69.33W	102–3	4.8L		
BJI	III	05 09 38 49.3	20.87S	68.26W	102	5.4b		
GCMT	III	05 09 38 50.0–.40	20.03S	69.39W	121–3	5.1W		
IDC	III	05 09 38 50.1–.38	20.14S	69.10W	105–2	4.8,4.5		
NEIC	III	05 09 38 50.1–.19	20.20S	69.01W	101	5.0b,4.8W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=161.5.
MOS Error ellipse: s-maj=15.4km s-min=7.2km az=115.9.
GUC Error ellipse: s-maj=1.1km s-min=4.0km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c28; s66,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.50±.14 $M_{\theta\theta}$-0.75±.19; $M_{\phi\phi}$4.25±.27; $M_{r\theta}$0.32±.10; $M_{\theta\phi}$-2.53±.20; $M_{\phi r}$-1.79±.18; Best double couple: NP1:ϕ_s347.00000°,δ57.00000° ,λ-78.00000°. NP2:ϕ_s145.00000°,δ35.00000°,λ-108.00000°. Principal axes: T 5.6520,Plg11.0000°,Azm68.0000°; N -1.7360,Plg10.0000°,Azm160.0000° ; P -3.9150,Plg75.0000°,Azm292.0000° $M_0$4.78400×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=54.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=65.0. Felt [V] at Alto Hospicio; [IV] at Camina, Iquique, Mamina and Pica; [II] at Cuya and Pisagua. Also felt at Arica. Felt at Arequipa, Peru. Moment Tensor Solution. s8 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.64 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$1.85 $M_{r\theta}$0.60 $M_{\theta\phi}$0.05 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s200.00000° ,δ40.00000°,λ-60.00000°. NP2:ϕ_s343.00000°,δ56.00000°,λ-113.00000°. Principal axes: T 1.9300,Plg9.0000°,Azm89.0000°; N 0.0000,Plg19.0000°,Azm356.0000° ; P -1.9200,Plg69.0000°,Azm202.0000° $M_0$1.90000×10^{16}

(162) South Island

WEL	**III**	**05 09 45 39.5–.07**	**43.57S**	**172.73E**	**8–0**	**3.6L**	
							¶16196153

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(162) South Island

WEL	**III**	**05 10 00 37.2–.07**	**43.55S**	**172.72E**	**9–0**	**3.7L**		
								¶16196155

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.

(348) Northern and central Iran

ISC	**III**	**05 11 24 44.7–.42**	**30.01N–.03**	**51.16E–.02**	**15–2**	**5.2b,4.8s**	**1272**	**1-171**
ISN	III	05 11 24 29.8–1.8	29.37N	51.77E	0–238	5.2L,4.8s		**¶16196156**
BJI	III	05 11 24 35.2	29.72N	50.24E	10	5.2b,5.2s		
TEH	III	05 11 24 41.7	30.04N	51.11E	6	5.2L,5.2s		
ISCJB	III	05 11 24 42.3–.46	29.98N–.02	51.11E–.01	12–2	5.2b,4.7s		
IDC	III	05 11 24 42.1–.35	30.06N	51.18E	0	5.0,4.9		
CSEM	III	05 11 24 43.9–.09	30.01N	51.14E	10	5.3b,5.3W		
GCMT	III	05 11 24 43.7–.10	29.99N	51.05E	12	5.3W,5.3W		
THR	III	05 11 24 43.9–1.0	30.02N	51.19E	15	5.1L,5.3W		
NEIC	III	05 11 24 43.7–.14	30.02N	51.16E	10	5.2,5.1L		
MOS	III	05 11 24 45.5–1.2	30.02N	51.15E	33	5.3b,4.7s		
OMAN	III	05 11 24 46.9–99	29.74N	51.21E	1–18	5.3b,4.7s		

ISC Event type fe.
ISN Error ellipse: s-maj=164.3km s-min=282.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=21.3.
IDC Error ellipse: s-maj=9.1km s-min=8.8km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=22.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s86,c132; s118,c203; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.01 $M_{\theta\theta}$-0.69±.01; $M_{\phi\phi}$-0.28±.01; $M_{r\theta}$-0.14±.04; $M_{\theta\phi}$0.52±.01; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s302.00000°,δ49.00000° ,λ87.00000°. NP2:ϕ_s126.00000°,δ41.00000°,λ93.00000°. Principal axes: T 0.9860,Plg85.0000°,Azm189.0000°; N 0.0700,Plg2.0000°,Azm304.0000° ; P -1.0560,Plg4.0000°,Azm34.0000° $M_0$1.02100×10^{17}
THR Error ellipse: s-maj=6.9km s-min=4.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=20.0. Felt at Shiraz.
MOS Error ellipse: s-maj=5.2km s-min=3.0km az=114.1.
OMAN Error ellipse: s-maj=440.1km s-min=9.7km az=316.0.

(219) Off east coast of Kamchatka Peninsula

ISC	**III**	**05 14 07 30.9–.46**	**52.88N–.03**	**160.80E–.03**	**15–2**	**4.9b,4.3s**	**826**	**1-149**
KRSC	III	05 14 07 27.4–2.4	52.64N	161.25E	17–28	4.9L,4.3s		**¶16196380**
IDC	III	05 14 07 28.5–.41	52.82N	160.78E	0	4.8,4.8		
BJI	III	05 14 07 28.5	53.17N	160.61E	12	5.0b,4.8b		
ISCJB	III	05 14 07 30.3–.11	52.69N–.02	160.95E–.02	24	4.9b,4.3s		
MOS	III	05 14 07 32.9–1.3	52.75N	160.74E	43	5.1b,4.1s		
NEIC	III	05 14 07 34.0–.18	52.84N	160.69E	35	4.8b,4.1s		

ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=10.1km s-min=9.3km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=170.2.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=100.4. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.0km az=168.0. Felt [III] at Petropavlovsk-Kamchatskiy.

(135) Near coast of central Chile

ISC	**III**	**05 15 12 48.9–2.0**	**30.71S–.04**	**71.92W–.07**	**22–13**	**4.7b,4.1s**	**71**	**1-165**
IDC	III	05 15 12 45.8–.54	30.73S	71.78W	0	4.6,4.5		**¶16445693**
NEIC	III	05 15 12 49.0	30.72S	71.82W	42	4.6b,4.5		
GUC	III	05 15 12 49.4–.35	30.72S	71.82W	42–2	4.8L,4.5		
ISCJB	III	05 15 12 49.2–.41	30.69S–.03	71.96W–.05	33	4.5b,4.0s		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Coquimbo and La Serena. After GUC.
ISCJB Event type fe.

(162) South Island

WEL	**III**	**05 20 00 16.6–.06**	**43.54S**	**172.71E**	**8–0**	**3.5L**	
							¶16196693

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(135) Near coast of central Chile

ISC	**III**	**05 20 12 33.2–.91**	**34.80S–.03**	**71.78W–.05**	**46–9**	**4.1b**	**37**	**0-84**
SJA	III	05 20 12 30.3–.61	34.85S	72.02W	62–16	4.0L,3.7W		**¶16403014**
GUC	III	05 20 12 32.7–.38	34.78S	71.76W	50–1	4.1L,3.7W		
ISCJB	III	05 20 12 32.9–.42	34.83S–.03	71.74W–.07	58–5	4.0b,3.7W		
NEIC	III	05 20 12 34.7–1.3	34.80S	71.52W	59–13	4.0b,3.7W		
IDC	III	05 20 12 36.3–4.0	34.87S	71.52W	75–40	4.0L,3.9		

ISC Event type fe.
SJA Error ellipse: s-maj=7.6km s-min=19.1km az=-1.0.
GUC Error ellipse: s-maj=0.7km s-min=1.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=4.4km az=18.9.
NEIC Event type fe. Error ellipse: s-maj=24.2km s-min=10.4km az=76.0. Felt [IV] at Curico and Romeral; [III] at Chimbarongo, Linares, Longavi, Pencahue, Rio Claro, San Fernando and Talca; [II] at Lolol and Santa Cruz.
IDC Error ellipse: s-maj=49.6km s-min=26.2km az=60.0.

(353) Southern Iran

ISC	**III**	**05 20 42 51.4–.41**	**28.28N–.02**	**57.13E–.02**	**28–2**	**5.2b,4.3s**	**1243**	**1-128**
BJI	III	05 20 42 40.6	28.19N	56.41E	5	4.9b,4.9b		**¶16196695**
ISCJB	III	05 20 42 49.8–.12	28.26N–.02	57.16E–.01	28	5.1b,4.3s		
CSEM	III	05 20 42 49.6–.08	28.33N	57.19E	15	5.2b,4.3s		
ISN	III	05 20 42 52.4–.71	28.21N	57.24E	43–23	5.1L,4.3s		
THR	III	05 20 42 52.8–.45	28.42N	56.95E	14–4	4.9L,4.3s		
IDC	III	05 20 42 53.3–1.2	28.27N	57.20E	43–10	4.9,4.8		
TEH	III	05 20 42 53.9	28.30N	57.14E	19	5.1L,4.8		
GCMT	III	05 20 42 53.9–.30	28.12N	57.16E	16–0	5.2W,4.8		
NEIC	III	05 20 42 53.9	28.30N	57.14E	19	5.2b,5.1		
MOS	III	05 20 42 56.9–.96	28.35N	57.12E	23	5.1b,5.1		
OMAN	III	05 20 43 02.6–29	27.54N	56.58E	11	5.1b,5.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=17.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=18.0.
ISN Error ellipse: s-maj=9.0km s-min=7.6km az=-1.0.
THR Error ellipse: s-maj=2.4km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.9km az=157.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c46; s70,c110; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.56±.10 $M_{\theta\theta}$-0.79±.06; $M_{\phi\phi}$0.22±.08; $M_{r\theta}$6.69±.54; $M_{\theta\phi}$0.53±.06; $M_{\phi r}$-0.33±.23; Best double couple: NP1:ϕ_s93.00000°,δ87.00000° ,λ86.00000°. NP2:ϕ_s327.00000°,δ5.00000°,λ144.00000°. Principal axes: T 6.6150,Plg48.0000°,Azm358.0000°; N 0.2730,Plg4.0000°,Azm93.0000° ; P -6.8880,Plg42.0000°,Azm187.0000° $M_0$6.75200×10^{16}
NEIC Event type fe. Felt at Jiroft and Kerman. After TEH.
MOS Error ellipse: s-maj=5.0km s-min=3.2km az=110.5.
OMAN Error ellipse: s-maj=12.4km s-min=5.2km az=228.0.

(45) California-Baja California border region

ISC	**III**	**06 03 32 31.0–.82**	**32.80N–.02**	**115.62W–.01**	**17–1**		**74**	**0-7**
ISCJB	III	06 03 32 31.8–.29	32.80N–.02	115.61W–.02	25–2			**¶16919519**
NEIC	III	06 03 32 32.8	32.82N	115.62W	16	3.0L		
ECX	III	06 03 32 33.1–.73	32.84N	115.63W	16–2	3.3L,3.1		
MEX	III	06 03 32 35.4–1.2	32.64N	115.52W	17–126	3.7,3.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.0km az=162.1.
NEIC Event type fe. Felt at El Centro and Imperial. After PAS.
ECX Error ellipse: s-maj=1.8km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=109.6km s-min=101.3km az=-1.0.

(162) South Island

ISC	**III**	**06 03 43 31.1–1.1**	**42.41S–.03**	**173.93E–.03**	**9–6**	**4.8b,3.9s**	**291**	**0-165**
IDC	III	06 03 43 29.9–.75	42.25S	173.92E	0	5.1L,4.7		**¶16196703**
BJI	III	06 03 43 30.3	42.73S	173.46E	8	5.5b,4.9b		
ISCJB	III	06 03 43 32.1–.45	42.43S–.03	173.94E–.04	28–3	4.8b,4.0s		
NEIC	III	06 03 43 32.8	42.36S	173.90E	12	4.9L,4.8W		
WEL	III	06 03 43 33.7–.14	42.34S	173.86E	20–1	5.1L,4.8W		

ISC Event type fe.
IDC Error ellipse: s-maj=31.6km s-min=22.8km az=11.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.6km az=136.3.
NEIC Event type fe. Felt widely along the east coast of the South Island. After WEL. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}0.35 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$0.16 $M_{r\theta}$0.28 $M_{\theta\phi}$-1.44 $M_{\phi r}$-0.67 Best double couple: NP1:ϕ_s93.00000°,δ66.00000°,λ164.00000°. NP2: ϕ_s190.00000°,δ75.00000°,λ25.00000°. Principal axes: T 1.6800,Plg28.0000°,Azm53.0000° ; N 0.0000,Plg61.0000°,Azm219.0000°; P -1.6800,Plg6.0000°,Azm320.0000° $M_0$1.70000×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt between Nelson, Canterbury and Wairarapa, maximum reported intensity MM. 6.

(14) Kenai Peninsula

ISC	**III**	**06 05 17 35.8–.76**	**60.91N–.03**	**150.01W–.03**	**50–6**	**3.4b**	**108**	**0-65**
ISCJB	III	06 05 17 34.6–.20	60.91N–.02	149.98W–.04	59–3	3.5b		**¶16196704**
IDC	III	06 05 17 35.6–1.4	60.89N	150.39W	54–15	3.7,3.6		
NEIC	III	06 05 17 36.3	60.93N	150.01W	44	3.6L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=142.7.
IDC Error ellipse: s-maj=19.4km s-min=8.8km az=109.0.
NEIC Event type fe. Felt [III] at Eagle River and [II] at Anchorage. Also felt at Elmendorf AFB and Girdwood. After AEIC.

(163) Cook Strait

ISC	**III**	**06 10 02 16.6–.78**	**41.59S–.03**	**174.00E–.02**	**16–5**		**64**	**0-151**
IDC	III	06 10 02 13.9–2.5	41.32S	174.05E	0	3.6,3.5		**¶16196714**
ISCJB	III	06 10 02 16.8–.39	41.57S–.03	173.98E–.03	15–3	3.2b,3.5		
WEL	III	06 10 02 17.1–.09	41.57S	174.02E	12	4.1L,3.5		
NEIC	III	06 10 02 17.1	41.57S	174.02E	12	4.1L,3.5		

ISC Event type fe.
IDC Error ellipse: s-maj=58.6km s-min=43.5km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=152.6.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.8km az=90.0. Felt from Manawatu to Canterbury, and from Nelson to Wairarapa, maximum. reported intensity MM 5.
NEIC Event type fe. Felt in the northern part of the South Island and in the southern part of the North Island. After WEL.

(123) Northern Chile

ISC	**III**	**06 12 31 58.5–.23**	**18.21S–.02**	**69.50W–.03**	**114–1**	**6.0b**	**2237**	**0-179**
CASC	III	06 12 31 50.6–4.2	20.41S	68.07W	260–604	6.0b		**¶16196722**
NEIC	III	06 12 31 56.0–.00	18.11S	69.38W	87	6.0b		
BJI	III	06 12 31 56.6	18.00S	69.30W	89	5.9s,5.8		
GUC	III	06 12 31 57.3–.35	18.31S	69.44W	112–2	6.2L,6.1W		
ISCJB	III	06 12 31 58.1–.11	17.95S–.02	69.46W–.02	116	6.0b,6.1W		
SCB	III	06 12 31 59.2–.24	17.92S	69.61W	100	5.2L,6.1W		
NEIC	III	06 12 31 59.8–.10	18.02S	69.36W	118	6.3W,6.3W		
GCMT	III	06 12 31 59.7–.10	18.28S	69.73W	126–0	6.3W,6.3W		
IDC	III	06 12 31 59.5–.27	18.02S	69.44W	116–2	6.0,5.7		
MOS	III	06 12 32 00.5–1.0	18.06S	69.48W	140	5.9b,5.6s		
NEIC	III	06 12 32 10.6–.00	17.72S	69.24W	92	5.9b,5.6s		

ISC Event type fe.
CASC Error ellipse: s-maj=302.3km s-min=124.4km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.20 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$1.70 $M_{r\theta}$1.20 $M_{\theta\phi}$-0.20 $M_{\phi r}$-1.90 Best double couple: NP1:ϕ_s332.00000° ,δ75.00000°,λ-107.00000°. NP2:ϕ_s203.00000°,δ23.00000°,λ-41.00000°. Principal axes: T 2.8000,Plg27.0000°,Azm75.0000°; N -0.1000,Plg16.0000°,Azm336.0000° ; P -2.6000,Plg56.0000°,Azm219.0000° $M_0$3.00000×10^{18}
GUC Error ellipse: s-maj=2.3km s-min=6.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=39.8.
SCB Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=59.0. Felt [VI] at Codpa; [V] at Arica, Camina, Cuya, Huara, Poconchile and Putre; [IV] at Alto Hospicio; [III] at Iquique and Pisagua; [II] at Pica. Felt [IV] at Arequipa, Ilo and Tacna and [II] at Torata and Mollendo, Peru. Also felt at Moquegua and Puno. Felt [II] at La Paz, Bolivia. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$4.00000×10^{18} Moment Tensor Solution. s8 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.22 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$1.76 $M_{r\theta}$0.88 $M_{\theta\phi}$0.42 $M_{\phi r}$-1.32 Best double couple: NP1: ϕ_s220.00000°,δ35.00000°,λ-35.00000°. NP2:ϕ_s340.00000°,δ71.00000°,λ-120.00000°. Principal axes: T 2.2600,Plg20.0000°,Azm92.0000°; N 0.0000,Plg28.0000°,Azm350.0000° ; P -2.2700,Plg54.0000°,Azm213.0000° $M_0$2.30000×10^{18} Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.26 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$0.31 $M_{r\theta}$0.29 $M_{\theta\phi}$0.22 $M_{\phi r}$-2.45 Best double couple: NP1:ϕ_s354.00000°,δ87.00000°,λ-96.00000°. NP2:ϕ_s237.00000° ,δ7.00000°,λ-27.00000°. Principal axes: T 2.4900,Plg42.0000°,Azm89.0000° ; N 0.0100,Plg6.0000°,Azm354.0000°; P -2.5000,Plg48.0000°,Azm257.0000°

$M_0$2.50000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ11.00000°,λ-27.00000°. NP2:ϕ_s355.00000°,δ85.00000°,λ-100.00000°. Principal axes: T Plg39.0000°,Azm94.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm254.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c330; s141,c471;Duration: 3s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.44±.02 $M_{\theta\theta}$-0.58±.02; $M_{\phi\phi}$2.02±.02; $M_{r\theta}$1.30±.01; $M_{\theta\phi}$0.10±.02; $M_{\phi r}$-2.12±.02; Best double couple: NP1: ϕ_s335.00000°,δ75.00000°,λ-111.00000°. NP2:ϕ_s210.00000°,δ26.00000°,λ-37.00000°. Principal axes: T 3.0910,Plg27.0000°,Azm81.0000°; N -0.0370,Plg20.0000°,Azm340.0000° ; P -3.0530,Plg55.0000°,Azm218.0000° $M_0$3.07200×10^{18}

IDC Error ellipse: s-maj=8.6km s-min=7.1km az=90.0.

MOS Error ellipse: s-maj=11.6km s-min=5.7km az=108.4.

NEIC Event type se. Moment Tensor Solution. s37 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.75 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$2.26 $M_{r\theta}$0.90 $M_{\theta\phi}$0.21 $M_{\phi r}$-1.94 Best double couple: NP1:ϕ_s209.00000° ,δ28.00000°,λ-47.00000°. NP2:ϕ_s342.00000°,δ70.00000°,λ-110.00000°. Principal axes: T 3.0500,Plg22.0000°,Azm88.0000°; N -0.1700,Plg19.0000°,Azm350.0000° ; P -2.8900,Plg60.0000°,Azm224.0000° $M_0$3.00000×10^{18}

(34) Off coast of northern California

ISC	**III**	**06 13 46 38.2–.86**	**40.45N–.07**	**125.15W–.07**	**13**	**4.2s,3.6b**	**55**	**2-98**
BJI	III	06 13 46 33.3	40.50N	125.40W	5	4.8s,4.7b		**¶16245371**
NEIC	III	06 13 46 35.3	40.46N	125.43W	3	4.5W,4.2b		
ISCJB	III	06 13 46 36.8–.58	40.43N–.04	125.16W–.06	13	4.1s,3.7b		
IDC	III	06 13 46 37.5–1.2	40.55N	124.95W	0	3.7L,3.7		

ISC Event type fe.

NEIC Event type fe. Felt [II] at Eureka. Also felt at Hydesville and McKinleyville. After NCEDC. Moment Tensor Solution. $M_0$8.00000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=153.2.

IDC Error ellipse: s-maj=16.4km s-min=13.0km az=60.0.

(238) Ryukyu Islands

ISC	**III**	**06 14 08 58.9–.63**	**28.62N–.04**	**129.22E–.06**	**78–5**	**3.6b**	**46**	**0-76**
ISCJB	III	06 14 08 57.9–.33	28.65N–.03	129.19E–.06	82–4	3.5b		**¶17193356**
JMA	III	06 14 08 58.7–.20	28.66N	129.20E	70–3	3.8		
IDC	III	06 14 08 59.2–.66	28.61N	129.16E	86–7	3.7,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=3.7km az=28.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.

IDC Error ellipse: s-maj=20.6km s-min=6.9km az=108.0.

(163) Cook Strait

WEL	**III**	**06 15 10 52.5–.09**	**41.57S**	**174.02E**	**12**	**3.5L**	
							¶600710772

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0. Felt from Wellington to Nelson, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**III**	**06 20 10 57.2–.82**	**36.49N–.05**	**140.76E–.07**	**59–6**	**3.7b**	**34**	**0-83**
NIED	III	06 20 10 00	36.50N	140.60E	59	3.7W		**¶17193378**
IDC	III	06 20 10 48.8–.95	36.75N	141.21E	0	3.8,3.7		
ISCJB	III	06 20 10 55.9–.56	36.47N–.04	140.80E–.07	64–4	3.6b,3.7		
JMA	III	06 20 10 58.3–.10	36.52N	140.57E	58–1	3.9,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ42.00000°,λ21.00000°. NP2:ϕ_s36.00000°,δ76.00000°,λ130.00000°. $M_0$4.63000×10^{14}

IDC Error ellipse: s-maj=27.3km s-min=16.2km az=78.0.

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.8km az=18.9.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s22.00000°,δ61.00000°,λ97.00000°. NP2:ϕ_s188.00000°,δ29.00000°,λ78.00000°. Principal axes: T Plg73.0000°,Azm308.0000°; N Plg6.0000°,Azm199.0000°; P Plg16.0000° ,Azm107.0000°

(193) Bougainville-Solomon Islands region

ISC	**III**	**07 00 09 38.2–.18**	**10.33S–.03**	**160.75E–.03**	**44–2**	**6.5s,6.2b**	**2109**	**1-165**
GCMT	III	07 00 09 36.5–.10	10.54S	160.69E	35–0	6.4W,6.2b		**¶16461120**
NEIC	III	07 00 09 36.5–.10	10.35S	160.77E	22	6.6s,6.4W		
BJI	III	07 00 09 36.0	10.30S	160.90E	40	6.4s,6.3b		
ISCJB	III	07 00 09 37.8–.59	10.34S–.02	160.73E–.02	43–5	6.5s,6.1b		
NEIC	III	07 00 09 38.0–.00	10.13S	160.14E	37	6.5s,6.1b		
MOS	III	07 00 09 39.3–.89	10.29S	160.65E	58	6.4s,6.3b		
IDC	III	07 00 09 40.8–.98	10.31S	160.71E	59–7	6.2s,6.2		
NEIC	III	07 00 09 51.7–.00	10.34S	160.28E	37	6.2s,6.2		

ISC Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s147,c373; s139,c539;Duration: 3s8 Moment tensor: Scale 10^{18} Nm; M_{rr}4.43±.03 $M_{\theta\theta}$-1.78±.02; $M_{\phi\phi}$-2.65±.02; $M_{r\theta}$0.64±.03; $M_{\theta\phi}$2.68±.02; $M_{\phi r}$-0.75±.03; Best double couple: NP1:ϕ_s140.00000°,δ51.00000°,λ90.00000°. NP2:ϕ_s320.00000° ,δ39.00000°,λ90.00000°. Principal axes: T 4.5310,Plg84.0000°,Azm50.0000° ; N 0.5000,Plg0.0000°,Azm140.0000°; P -5.0320,Plg6.0000°,Azm230.0000° $M_0$4.78100×10^{18}

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=152.0. Felt [IV] at Honiara. Also felt at Tulaghi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$5.50000×10^{18} Moment Tensor Solution. s40 Moment tensor: Scale 10^{18}Nm; M_{rr}2.76 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$-0.95 $M_{r\theta}$0.20 $M_{\theta\phi}$3.87 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s117.00000°,δ48.00000°,λ69.00000°. NP2:ϕ_s327.00000° ,δ46.00000°,λ112.00000°. Principal axes: T 2.7900,Plg74.0000°,Azm317.0000° ; N 2.4900,Plg16.0000°,Azm131.0000°; P -5.2800,Plg1.0000°,Azm222.0000° $M_0$4.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s330.00000°,δ30.00000°,λ90.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ90.00000°. Principal axes: T Plg75.0000°,Azm60.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000° ,Azm240.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=5.8.

NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{18}Nm; M_{rr}4.20 $M_{\theta\theta}$-1.93 $M_{\phi\phi}$-2.27 $M_{r\theta}$0.35 $M_{\theta\phi}$2.00 $M_{\phi r}$0.81 Best double couple: NP1:ϕ_s327.00000° ,δ48.00000°,λ104.00000°. NP2:ϕ_s127.00000°,δ43.00000°,λ75.00000°. Principal axes: T 4.3600,Plg79.0000°,Azm304.0000°; N -0.2400,Plg10.0000°,Azm138.0000° ; P -4.1200,Plg2.0000°,Azm47.0000° $M_0$4.20000×10^{18}

MOS Error ellipse: s-maj=6.5km s-min=5.5km az=85.5.

IDC Error ellipse: s-maj=8.6km s-min=7.7km az=16.0.

NEIC Event type se. Moment Tensor Solution. s72 Moment tensor: Scale 10^{18}Nm; M_{rr}4.57 $M_{\theta\theta}$-1.68 $M_{\phi\phi}$-2.89 $M_{r\theta}$0.67 $M_{\theta\phi}$2.60 $M_{\phi r}$-1.15 Best double couple: NP1:ϕ_s144.00000° ,δ53.00000°,λ93.00000°. NP2:ϕ_s319.00000°,δ37.00000°,λ86.00000°. Principal axes: T 4.7600,Plg82.0000°,Azm69.0000°; N 0.3800,Plg2.0000°,Azm322.0000° ; P -5.1300,Plg8.0000°,Azm232.0000° $M_0$4.90000×10^{18}

(230) Near south coast of eastern Honshu

ISC	**III**	**07 06 13 03.6–.67**	**35.67N–.05**	**139.13E–.07**	**145–5**	**3.7b**	**39**	**0-149**
NIED	III	07 06 13 00	35.70N	139.20E	125	3.8W		**¶17193398**
ISCJB	III	07 06 13 02.5–.35	35.64N–.05	139.08E–.08	148–2	3.6b		
IDC	III	07 06 13 03.4–.54	35.60N	139.12E	142–4	3.9,3.6		
JMA	III	07 06 13 04.0–.10	35.68N	139.28E	140–1	3.8,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ32.00000°,λ95.00000°. NP2:ϕ_s117.00000°,δ58.00000°,λ87.00000°. $M_0$4.94000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.6km az=150.5.

IDC Error ellipse: s-maj=19.4km s-min=6.3km az=68.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s106.00000°,δ58.00000°,λ64.00000°. NP2: ϕ_s328.00000°,δ40.00000°,λ125.00000°. Principal axes: T Plg66.0000°,Azm327.0000° ; N Plg22.0000°,Azm120.0000°; P Plg10.0000°,Azm214.0000°

(259) Mindanao

ISC	**III**	**07 07 15 28.8–1.4**	**9.62N–.04**	**126.29E–.06**	**32–9**	**4.3b,3.1s**	**54**	**1-146**
MAN	III	07 07 15 29	9.52N	126.33E	78	4.8b,3.7L		**¶16449407**
IDC	III	07 07 15 31.4–3.1	9.62N	126.08E	53–27	4.2,4.1		
NEIC	III	07 07 15 36.6–1.5	9.67N	126.20E	102–14	4.6b,4.1		
BJI	III	07 07 15 51.5	9.50N	126.30E	285	4.8b,4.3b		

ISC Event type fe.

MAN Event type fe. INTENSITY II - CANTILAN AND CARRASCAL SURIGAO DEL SUR.

IDC Error ellipse: s-maj=26.2km s-min=12.3km az=74.0.

NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=9.4km az=73.0. Felt [II PIVS] at Cantilan and Carrascal.

(238) Ryukyu Islands

ISC	**III**	**07 09 49 32.4–.70**	**29.05N–.03**	**129.55E–.03**	**13–4**	**4.7b,3.9s**	**187**	**0-150**
NIED	III	07 09 49 00	29.10N	129.50E	5	4.6W,3.9s		**¶16202802**
IDC	III	07 09 49 29.7–.50	29.09N	129.42E	0	4.3,4.1		
ISCJB	III	07 09 49 32.1–.46	29.09N–.02	129.47E–.03	18–3	4.6b,3.9s		
MOS	III	07 09 49 32.8–1.3	29.12N	129.45E	27	4.8b,3.9s		
JMA	III	07 09 49 32.3–.10	29.09N	129.46E	29	4.5,3.9s		
BJI	III	07 09 49 33.0	28.93N	129.31E	19	4.7b,4.5b		
NEIC	III	07 09 49 34.6–1.9	29.07N	129.32E	27–13	4.9b,4.5b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ27.00000°,λ-97.00000°. NP2:ϕ_s298.00000°,δ63.00000°,λ-87.00000°. $M_0$9.66000×10^{15}

IDC Error ellipse: s-maj=16.8km s-min=12.4km az=95.0.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=26.8.

MOS Error ellipse: s-maj=11.1km s-min=6.5km az=96.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.9km az=102.0. Recorded [3 JMA] on Akuseki-jima.

(238) Ryukyu Islands

ISC	**III**	**07 10 13 05.5–.63**	**29.09N–.02**	**129.49E–.03**	**30–4**	**4.9b,4.8s**	**406**	**0-159**
NIED	III	07 10 13 00	29.10N	129.40E	5	5.2W,4.8s		**¶16202803**
IDC	III	07 10 13 00.3–.49	29.13N	129.41E	0	4.7,4.6		
JMA	III	07 10 13 02.6–.10	29.09N	129.46E	27–5	5.1,4.6		
ISCJB	III	07 10 13 03.1–.40	29.09N–.02	129.45E–.02	20–3	4.8b,4.7s		
MOS	III	07 10 13 04.7–1.2	29.13N	129.41E	34	5.0b,4.7s		
GCMT	III	07 10 13 07.5–.10	29.06N	129.43E	12	5.2W,4.7s		
NEIC	III	07 10 13 07.5–.51	29.09N	129.42E	44–4	5.0b,4.7s		
BJI	III	07 10 13 07.0	29.10N	129.40E	46	5.3s,5.1b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ32.00000°,λ-114.00000°. NP2:ϕ_s314.00000°,δ61.00000°,λ-76.00000°. $M_0$7.47000×10^{16}

IDC Error ellipse: s-maj=17.3km s-min=12.7km az=74.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=29.5.

MOS Error ellipse: s-maj=7.4km s-min=4.7km az=96.1.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c128; s117,c207; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.67±.01 $M_{\theta\theta}$0.72±.01; $M_{\phi\phi}$-0.04±.01; $M_{r\theta}$-0.11±.03; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$0.27±.04; Best double couple: NP1:ϕ_s132.00000°,δ55.00000° ,λ-66.00000°. NP2:ϕ_s273.00000°,δ41.00000°,λ-121.00000°. Principal axes: T 0.9210,Plg7.0000°,Azm205.0000°; N -0.1480,Plg20.0000°,Azm297.0000° ; P -0.7730,Plg69.0000°,Azm95.0000° $M_0$0.84700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=129.0. Recorded [3 JMA] on Akuseki-jima.

(162) South Island

WEL	**III**	**07 10 26 45.8–.06**	**43.56S**	**172.75E**	**10–0**	**4.3L**	
NEIC	III	07 10 26 42.0	43.60S	172.97E	33	4.3L	**¶16202804**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 6.

NEIC Event type fe. Felt widely in Canterbury. After WEL.

(238) Ryukyu Islands

JMA	**III**	**07 13 44 00.1–.10**	**29.08N**	**129.46E**	**23–5**	**3.5**	
							¶602650480

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.

(162) South Island

WEL	**III**	**07 14 01 55.7–.06**	**43.59S**	**172.64E**	**4–0**	**3.6L**	
							¶16268966

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(662) Sakhalin Island

ISC	**III**	**07 18 56 02.0–1.1**	**51.87N–.03**	**142.82E–.04**	**7–6**	**4.0b,2.9s**	**74**	**1-88**
IDC	III	07 18 56 00.7–.58	51.89N	143.10E	0	4.2L,4.0		**¶16409222**
MOS	III	07 18 56 00.7–1.1	51.84N	143.04E	10	4.1b,4.0		
SKHL	III	07 18 56 00.9–.50	51.87N	142.62E	10	4.6b,3.8s		
ISCJB	III	07 18 56 02.0–.80	51.83N–.03	143.10E–.07	20–6	4.0b,3.1s		
NEIC	III	07 18 56 05.8–2.3	51.82N	143.13E	34–18	4.0b,3.1s		

ISC Event type fe.

IDC Error ellipse: s-maj=16.1km s-min=11.0km az=130.0.

MOS Event type fe. Error ellipse: s-maj=11.7km s-min=6.0km az=82.2. Felt (III-IV) at Nogliki. Moment Tensor Solution.

SKHL Event type fe. Felt (III-IV) at Nogliki.

ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.6km az=4.0.

NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.8km az=120.0. Felt [IV] at Nogliki.

(162) South Island

WEL	**III**	**07 21 09 34.8–.05**	**43.65S**	**172.44E**	**10–0**	**3.7L**	
							¶16268968

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(502) Arkansas

ISC	**III**	**07 22 06 45.9–1.3**	**35.23N–.02**	**92.41W–.03**	**7–11**		**65**	**1-5**
NEIC	III	07 22 06 46.0	35.23N	92.39W	5	2.7		**¶16915393**

ISC Event type fe.

NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Choctaw and Conway. After CERI.

(30) Off coast of Oregon

ISC	**III**	**08 01 27 01.8–.91**	**44.25N–.05**	**129.23W–.05**	**41–7**	**5.0b,4.0s**	**1051**	**4-154**
BJI	III	08 01 26 54.4	44.30N	129.40W	10	5.3b,5.2s		**¶16268368**
IDC	III	08 01 26 55.0–.55	44.24N	129.38W	0	4.7,4.7b		
MOS	III	08 01 26 56.3–.88	44.32N	129.42W	10	5.3b,4.7b		
GCMT	III	08 01 26 58.2–.20	44.18N	129.40W	12	5.1W,4.7b		
NEIC	III	08 01 26 58.2–.22	44.32N	129.45W	10	5.0b,4.7b		
ISCJB	III	08 01 27 00.0–.37	44.30N–.02	129.21W–.03	35–2	5.0b,4.1s		

ISC Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c70; s110,c180;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.69±.10 $M_{\theta\theta}$1.33±.11; $M_{\phi\phi}$3.36±.10; $M_{r\theta}$1.20±.33; $M_{\theta\phi}$-2.73±.09; $M_{\phi r}$-0.75±.30; Best double couple: NP1:ϕ_s318.00000°,δ53.00000°,λ-99.00000°. NP2:ϕ_s153.00000° ,δ38.00000°,λ-78.00000°. Principal axes: T 5.4250,Plg7.0000°,Azm55.0000° ; N -0.4980,Plg7.0000°,Azm324.0000°; P -4.9270,Plg80.0000°,Azm190.0000° $M_0$5.17600×10^{16}

NEIC Event type fe. Felt at Portland and Saint Helens. Also felt at La Center, Washington and at Ferndale, California.

ISCJB Event type fe.

(162) South Island

WEL	**III**	**08 01 47 34.2–.06**	**43.62S**	**172.69E**	**11–0**	**3.7L**		
								¶16268969

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(244) Taiwan

ISC	**III**	**08 02 46 52.5–.73**	**23.94N–.02**	**121.86E–.02**	**44–6**	**4.0b**	**171**	**0-83**
IDC	III	08 02 46 45.9–.72	23.97N	121.91E	0	4.1,4.0		**¶16268370**
BJI	III	08 02 46 50.6	24.09N	121.67E	5	4.3b,4.2b		
JMA	III	08 02 46 52.4	23.91N	121.81E	47–1	4.4,4.2b		
ISCJB	III	08 02 46 52.7–.18	23.94N–.02	121.88E–.01	58–2	3.9b,4.2b		
TAP	III	08 02 46 53.2	23.94N	121.82E	45–0	4.5L,4.2b		
NEIC	III	08 02 46 53.1	23.99N	121.77E	50	4.0b,4.2b		

ISC Event type se.

IDC Error ellipse: s-maj=22.1km s-min=16.2km az=58.0.

JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=148.0.

TAP B.

NEIC Event type fe. Recorded [3 TAP] in Hualien, [2 TAP] in Yilan and [1 TAP] in Changhua and Nantou. After TAP.

(30) Off coast of Oregon

ISC	**III**	**08 07 29 52.3–.52**	**44.13N–.08**	**129.44W–.07**	**13**	**4.7b,3.3s**	**570**	**4-146**
BJI	III	08 07 29 48.3	43.80N	129.43W	10	5.4b,4.9b		**¶16268377**
IDC	III	08 07 29 49.8–1.0	44.10N	129.45W	0	4.3,4.1		
MOS	III	08 07 29 50.7–1.0	44.15N	129.46W	10	4.8b,4.1		
ISCJB	III	08 07 29 51.4–.21	44.17N–.02	129.34W–.03	13	4.5b,3.5s		
NEIC	III	08 07 29 52.8–.26	44.17N	129.47W	10	4.6b,3.5s		

ISC Event type fe.

IDC Error ellipse: s-maj=26.4km s-min=11.2km az=38.0.

MOS Error ellipse: s-maj=7.1km s-min=5.1km az=131.8.

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=39.9.

NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.5km az=38.0. Felt at Bandon and Florence.

(162) South Island

WEL	**III**	**08 09 03 03.6–.07**	**43.59S**	**172.63E**	**7–0**	**4.3L**		
NEIC	III	08 09 03 03.4	43.58S	172.63E	9	4.3L		¶16268972

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.

(162) South Island

WEL	**III**	**08 09 44 12.2–.07**	**43.49S**	**172.17E**	**10–0**	**3.5L**		
								¶16268973

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**III**	**08 11 56 40.2–.05**	**43.61S**	**172.64E**	**9–0**	**3.7L**		
								¶16294215

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(543) Germany

ISC	**III**	**08 16 06 43.3–.69**	**51.43N–.02**	**6.47E–.02**	**0**		**315**	**0-8**
ISCJB	III	08 16 06 42.0–.27	51.41N–.02	6.37E–.02	0			¶16294217
CSEM	III	08 16 06 43.6–.20	51.47N	6.46E	1	3.7L		
BUG	III	08 16 06 44.0	51.52N	6.58E	1	3.0L		
LDG	III	08 16 06 44.6–.07	51.43N	6.68E	1	3.5L		
BNS	III	08 16 06 45.7–1.1	51.45N	6.60E	1	2.8L		
BGR	III	08 16 06 45.4–.25	51.47N	6.62E	1	3.2L		
PRU	III	08 16 06 47.7	51.53N	6.76E	18	3.2L		
STR	III	08 16 06 50.8–.19	51.24N	7.01E	10	3.2L		

ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=2.4km s-min=1.8km az=140.0.
CSEM Event type ki. Error ellipse: s-maj=4.0km s-min=2.8km az=153.0.
GDNRW Event type fi.
LDG Event type sr. Error ellipse: s-maj=1.8km s-min=1.2km az=134.0. Suspected Mining induced.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=111.0.
STR Event type ke.

(460) Wyoming

ISC	**III**	**08 18 19 50.3–1.3**	**44.01N–.09**	**105.21W–.08**	**0**		**16**	**1-9**
IDC	III	08 18 19 49.6–2.2	43.74N	105.30W	0	3.3,3.1		¶17193481
ISCJB	III	08 18 19 50.1–.74	44.13N–.09	105.29W–.08	0	3.3,3.1		
NEIC	III	08 18 19 51.4–.71	44.04N	105.29W	0	2.9L,3.1		

ISC Event type sm.
IDC Error ellipse: s-maj=62.0km s-min=8.7km az=151.0.
ISCJB Event type fm. Error ellipse: s-maj=13.3km s-min=7.7km az=166.2.
NEIC Event type fm. Error ellipse: s-maj=14.0km s-min=7.6km az=165.0. 33 km [20 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC	**III**	**08 20 11 45.3–.65**	**43.59N–.03**	**105.25W–.03**	**0**	**3.9b**	**62**	**1-82**
IDC	III	08 20 11 41.6–1.8	43.06N	105.01W	0	3.6,3.5b		¶17193489
ISCJB	III	08 20 11 45.5–.29	43.59N–.03	105.27W–.03	0	3.9b,3.1s		
NEIC	III	08 20 11 45.4–.56	43.61N	105.07W	0	3.2L,3.1s		

ISC Event type sm.
IDC Error ellipse: s-maj=42.1km s-min=9.6km az=159.0.
ISCJB Event type fm. Error ellipse: s-maj=4.2km s-min=2.5km az=155.5.
NEIC Event type fm. Error ellipse: s-maj=8.9km s-min=7.5km az=173.0. 75 km [47 miles] WSW of Newcastle. Suspected Mining explosion.

(201) Irian Jaya

ISC	**III**	**08 21 42 30.9–.33**	**4.77S–.03**	**139.17E–.04**	**35**	**4.8b,3.7s**	**224**	**2-146**
BJI	III	08 21 42 24.2	5.04S	139.72E	29	5.1b,5.0s		¶16293264
MOS	III	08 21 42 29.7–.95	4.63S	139.17E	36	5.0b,5.0s		
ISCJB	III	08 21 42 29.2–.20	4.71S–.02	139.26E–.03	33	4.8b,3.8s		
IDC	III	08 21 42 32.4–2.6	4.60S	139.21E	39–24	4.5,4.4		
NEIC	III	08 21 42 32.8–.69	4.61S	139.15E	46–7	4.9b,4.4		
DJA	III	08 21 42 34.4–.30	5S–2.0	139E–3.0	53–4	5.4b,5.3		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Wamena.

(219) Off east coast of Kamchatka Peninsula

ISC	**III**	**08 22 42 38.9–.41**	**52.72N–.03**	**160.86E–.03**	**27–2**	**5.1s,5.0b**	**978**	**1-157**
KRSC	III	08 22 42 33.3–1.3	52.52N	161.30E	15–10	5.3L,5.0b		¶16293267
BJI	III	08 22 42 35.1	53.04N	160.70E	16	5.4s,5.2		
ISCJB	III	08 22 42 39.5–.36	52.67N–.02	160.87E–.02	44–2	5.0s,5.0b		
IDC	III	08 22 42 39.9–3.4	52.75N	160.78E	33–25	4.8,4.8s		
MOS	III	08 22 42 39.9–1.2	52.71N	160.72E	26	5.3b,5.0s		
NEIC	III	08 22 42 41.5–.58	52.78N	160.66E	43–5	5.0b,5.0s		
GCMT	III	08 22 42 41.5–.20	52.64N	161.06E	21–0	5.3W,5.0s		

ISC Event type fe.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.1km az=167.1.
IDC Error ellipse: s-maj=13.5km s-min=9.1km az=151.0.
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=3.2km az=100.0. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=2.6km az=168.0. Felt [II] at Petropavlovsk-Kamchatskiy.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c161; s116,c210; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94±.02 $M_{\theta\theta}$-0.29±.01; $M_{\phi\phi}$-0.64±.01; $M_{r\theta}$0.39±.03; $M_{\theta\phi}$-0.51±.01; $M_{\phi r}$0.46±.02; Best double couple: NP1:ϕ_s38.00000°,δ61.00000°,λ93.00000°. NP2:ϕ_s212.00000°,δ29.00000°,λ85.00000°. Principal axes: T 1.1070,Plg74.0000°,Azm315.0000°; N 0.0650,Plg2.0000°,Azm217.0000°; P -1.1720,Plg16.0000°,Azm126.0000° $M_0$1.13900×10^{17}

(159) North Island

WEL	**III**	**08 23 26 00.3–.16**	**38.32S**	**177.18E**	**48–2**	**3.7L**		
								¶16294220

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.9km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.

(162) South Island

WEL	**III**	**09 00 18 55.4–.06**	**43.57S**	**172.64E**	**5–0**	**4.1L**		
NEIC	III	09 00 18 55.2	43.58S	172.66E	8	4.1L		¶16294221

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(259) Mindanao

ISC	**III**	**09 01 48 12.2–1.5**	**6.66N–.07**	**125.83E–.04**	**17–10**	**3.7b**	**21**	**0-55**
IDC	III	09 01 48 12.5–3.4	6.45N	125.50E	14–25	3.9,3.8		¶17193503
MAN	III	09 01 48 13	6.53N	125.94E	27	4.7b,3.5L		

ISC Event type fe.
IDC Error ellipse: s-maj=60.3km s-min=15.5km az=81.0.
MAN Event type fe. INTENSITY III - GOVERNOR GENEROSO DAVAO ORIENTAL; MATI DAVAO ORIENTAL; PADADA DAVAO DEL SUR.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 02 45 19.6–.29**	**38.44N–.02**	**142.98E–.02**	**26–1**	**7.5s,6.4b**	**2864**	**1-164**
NIED	III	09 02 45 00	38.30N	143.30E	23	7.2W,6.4b		¶16293272
JMA	III	09 02 45 12.9–.10	38.33N	143.28E	8–2	7.3,6.4b		
ISCJB	III	09 02 45 15.0–.47	38.38N–.01	143.02E–.01	9–2	7.5s,6.3b		
BJI	III	09 02 45 14.7	38.50N	142.85E	10	7.6s,7.5		
IDC	III	09 02 45 15.2–.32	38.45N	142.96E	0	7.5,7.5s		
NEIC	III	09 02 45 18.0–.00	38.51N	142.99E	35	7.5,7.5s		
MOS	III	09 02 45 18.7–.91	38.56N	142.89E	31	7.6s,6.6b		
GCMT	III	09 02 45 20.3–.10	38.56N	142.78E	14–0	7.3W,6.6b		
NEIC	III	09 02 45 20.3–.08	38.44N	142.84E	32	7.3W,7.3s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ70.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ98.00000°. $M_0$7.97000×10^{19}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=157.6.
IDC Error ellipse: s-maj=9.3km s-min=7.2km az=101.0.
NEIC Event type se. Moment Tensor Solution. s138 Moment tensor: Scale 10^{19}Nm; M_{rr}4.67 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-4.34 $M_{r\theta}$3.23 $M_{\theta\phi}$-1.31 $M_{\phi r}$8.06 Best double couple: NP1:ϕ_s21.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s192.00000°,δ14.00000°,λ81.00000°. Principal axes: T 9.8600,Plg59.0000°,Azm294.0000°; N 0.0300,Plg2.0000°,Azm200.0000°; P -9.8900,Plg30.0000°,Azm109.0000° $M_0$9.90000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=103.5. Fault plane solution: P-wave C155, D60 . Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s26.00000°,δ84.00000°,λ85.00000°. NP2:ϕ_s242.00000°,δ8.00000°,λ126.00000°. Principal axes: T Plg51.0000°,Azm291.0000°; N Plg5.0000°,Azm27.0000°; P Plg38.0000°,Azm120.0000° $M_0$1.60000×10^{20}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c385; s145,c741;Duration: 11s3 Moment tensor: Scale 10^{20}Nm; M_{rr}0.49±.00 $M_{\theta\theta}$-0.02±.00; $M_{\phi\phi}$-0.46±.00; $M_{r\theta}$0.42±.02; $M_{\theta\phi}$-0.13±.00; $M_{\phi r}$1.05±.03; Best double couple: NP1:ϕ_s21.00000°,δ78.00000°,λ93.00000°. NP2:ϕ_s189.00000°,δ12.00000°,λ78.00000°. Principal axes: T 1.2310,Plg57.0000°,Azm294.0000°; N 0.0050,Plg2.0000°,Azm201.0000°; P -1.2360,Plg33.0000°,Azm109.0000° $M_0$1.23400×10^{20}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=142.0. Felt [IV] at Misawa, Sendai and Utsunomiya; [III] at Tokyo, Tsukuba, Yokohama and Yokosuka; [II] at Narita and Sagamihara. Felt throughout central and northern Honshu and southern Hokkaido. Felt [II] at Yuzhno-Kuril'sk, Kuril Islands. Recorded [5L JMA] in Miyagi, Honshu. Complex earthquake, with at least two events occurring after the first event observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$9.40000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm110.0000°

(229) Off east coast of Honshu

ISC	**III**	**09 02 55 12.8–.48**	**38.51N–.05**	**143.24E–.06**	**23**	**4.9b**	**78**	**1-123**
JMA	III	09 02 55 09.9–.20	38.40N	143.32E	14	4.8		¶602651433
ISCJB	III	09 02 55 11.1–.35	38.42N–.04	143.29E–.05	23	4.8b		
NEIC	III	09 02 55 12.6–3.0	38.47N	143.24E	20–18	5.1b		
MOS	III	09 02 55 12.6–.98	38.44N	143.30E	36	5.1b		
IDC	III	09 02 55 14.0–.75	38.43N	143.19E	27–4	4.6,4.6		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.1km az=154.2.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=107.0.
MOS Error ellipse: s-maj=13.9km s-min=9.6km az=97.4.
IDC Error ellipse: s-maj=18.4km s-min=14.8km az=84.0.

(229) Off east coast of Honshu

ISC	**III**	**09 02 57 16.9–.61**	**38.29N–.03**	**143.09E–.03**	**28–4**	**5.7b**	**1195**	**1-160**
NIED	III	09 02 57 00	38.30N	143.40E	20	6.0W		¶16293274
JMA	III	09 02 57 10.7–.20	38.32N	143.40E	12	6.2		
IDC	III	09 02 57 12.4–.37	38.35N	143.15E	0	5.3,5.3		
BJI	III	09 02 57 14.1	38.41N	143.02E	22	6.3s,6.2		
MOS	III	09 02 57 16.3–1.1	38.37N	142.99E	34	5.9b,6.2		
NEIC	III	09 02 57 16.7–1.4	38.36N	142.91E	23–9	5.7b,6.2		
ISCJB	III	09 02 57 17.2–.42	38.35N–.02	142.95E–.02	40–3	6.8s,5.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ23.00000°,λ95.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ88.00000°. $M_0$1.17000×10^{18}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Miyagi and Yamagata.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**09 02 58 12.3–.39**	**38.25N–.04**	**143.15E–.05**	**23**	**5.5b**	**150**	**1-150**
NIED	III	09 02 58 00	38.30N	143.20E	23	6.0W		¶600538119
IDC	III	09 02 58 08.9–.54	38.27N	143.13E	0	6.3,6.3s		
ISCJB	III	09 02 58 10.0–.27	38.19N–.03	143.24E–.04	23	5.4b,6.3s		
JMA	III	09 02 58 11.8–.30	38.30N	143.16E	21	6.0,6.3s		
MOS	III	09 02 58 14.1–1.9	38.40N	142.80E	33	5.6b,6.3s		
NEIC	III	09 02 58 14.1–2.2	38.25N	143.10E	35–15	5.7b,6.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ29.00000°,λ99.00000°. NP2:ϕ_s18.00000°,δ62.00000°,λ85.00000°. $M_0$1.01000×10^{18}
IDC Error ellipse: s-maj=15.0km s-min=13.2km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.5km az=31.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=7.1km az=94.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.7km az=99.0.

(229) Off east coast of Honshu

ISC	**III**	**09 03 02 01.7–.73**	**38.43N–.06**	**143.26E–.07**	**15**	**4.8b**	**44**	**1-82**
IDC	III	09 03 01 59.8–1.2	38.48N	143.36E	0	4.8,4.8		¶16403019
ISCJB	III	09 03 02 00.1–.50	38.46N–.05	143.34E–.05	15	4.7b,4.8		
JMA	III	09 03 02 01.9–.20	38.52N	143.27E	28	5.0,4.8		
NEIC	III	09 03 02 06.0–1.3	38.45N	143.20E	42–10	4.7b,4.8		
MOS	III	09 03 02 06.0–2.7	38.40N	142.80E	33	4.9b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=35.7km s-min=16.9km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.7km az=143.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=8.5km az=106.0. Recorded [1 JMA] in Aomori, Iwate, Miyagi and Yamagata.
MOS Error ellipse: s-maj=16.5km s-min=9.5km az=78.3.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 03 05 50.8–.72**	**38.24N–.05**	**142.89E–.06**	**33–4**	**4.6b**	**92**	**1-81**
JMA	III	09 03 05 48.2–.20	38.28N	142.93E	21–3	5.0		¶16484653
ISCJB	III	09 03 05 48.8–1.4	38.24N–.04	142.97E–.04	33–9	4.6b		
IDC	III	09 03 05 51.2–.71	38.27N	142.84E	31–3	4.5,4.4		
NEIC	III	09 03 05 52.2–.80	38.28N	142.84E	42–6	4.6b,4.4		
MOS	III	09 03 05 52.2–2.9	38.40N	142.80E	33	4.8b,4.4		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.7km az=144.0.
IDC Error ellipse: s-maj=15.3km s-min=12.8km az=140.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.1km az=125.0.
MOS Error ellipse: s-maj=9.9km s-min=7.0km az=85.5.

(229) Off east coast of Honshu

ISC	**III**	**09 03 08 33.9–.40**	**38.26N–.04**	**143.28E–.04**	**19–1**	**5.4b**	**1085**	**2-155**
ISCJB	III	09 03 08 32.0–.97	38.27N–.02	143.25E–.02	14–6	6.2s,5.3b		¶16293275
JMA	III	09 03 08 33.0–.20	38.36N	143.32E	27	5.8,5.3b		
BJI	III	09 03 08 34.2	38.37N	143.01E	21	5.9,5.5b		
NEIC	III	09 03 08 35.8–1.3	38.31N	143.17E	29–9	5.3b,5.5b		
IDC	III	09 03 08 35.6–.60	38.30N	143.26E	26–3	5.4s,5.4		
MOS	III	09 03 08 35.8–1.6	38.40N	142.80E	33	5.7b,5.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=160.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=140.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=10.8km s-min=9.3km az=133.0.
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=104.2.

(229) Off east coast of Honshu

ISC	**III**	**09 03 18 58.9–.47**	**38.68N–.04**	**143.18E–.05**	**21–5**	**5.0b**	**353**	**1-149**
IDC	III	09 03 18 55.6–.51	38.65N	143.14E	0	4.6,4.6		¶16293276
ISCJB	III	09 03 18 56.4–.78	38.64N–.03	143.17E–.03	15–5	8.3s,4.9b		
JMA	III	09 03 18 57.0–.10	38.61N	143.23E	28–4	5.1,4.9b		
BJI	III	09 03 18 57.3	38.74N	142.99E	21	5.9s,5.7		
MOS	III	09 03 18 59.7–2.2	38.40N	142.80E	33	5.2b,5.7		
NEIC	III	09 03 18 59.7–1.6	38.71N	143.07E	23–11	5.0b,5.7		

ISC Event type se.
IDC Error ellipse: s-maj=13.4km s-min=11.5km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=144.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=104.8.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=137.0. Recorded [1 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 04 05 53.7–.54**	**38.72N–.04**	**142.95E–.04**	**29–3**	**5.1b**	**392**	**1-145**
NIED	III	09 04 05 00	38.60N	143.10E	20	5.4W		¶17193516
IDC	III	09 04 05 48.1–.52	38.59N	143.23E	0	4.7,4.6		
BJI	III	09 04 05 49.4	38.75N	142.85E	11	5.9b,5.8s		
JMA	III	09 04 05 50.4–.20	38.60N	143.13E	9	5.6,5.8s		
ISCJB	III	09 04 05 51.6–.93	38.74N–.03	142.84E–.03	21–6	5.8s,5.0b		
MOS	III	09 04 05 53.8–1.0	38.86N	142.91E	36	5.3b,5.0b		
NEIC	III	09 04 05 55.0–.23	38.66N	142.75E	35	5.2b,5.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ26.00000°,λ103.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ84.00000°. $M_0$1.51000×10^{17}

IDC Error ellipse: s-maj=13.4km s-min=11.4km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=140.7.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=109.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=143.0. Recorded [2 JMA] in Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 04 09 17.6–.61**	**38.74N–.07**	**143.22E–.07**	**23**	**4.5b**	**62**	**1-88**
IDC	III	09 04 09 13.6–.68	38.67N	143.36E	0	4.4,4.3		**¶16318197**
ISCJB	III	09 04 09 15.5–.44	38.67N–.05	143.30E–.06	23	5.6s,4.3b		
JMA	III	09 04 09 16.9–.40	38.62N	143.13E	17	4.5,4.3b		
MOS	III	09 04 09 17.5–.89	38.66N	143.30E	42	4.7b,4.3b		
NEIC	III	09 04 09 19.5–.89	38.66N	143.27E	39–7	4.3b,4.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=14.1km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.0km az=140.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=11.7km s-min=7.5km az=78.1.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.0km az=119.0.

(229) Off east coast of Honshu

ISC	**III**	**09 04 32 08.7–.48**	**38.68N–.04**	**143.17E–.04**	**31–2**	**5.1b**	**873**	**1-145**
IDC	III	09 04 32 04.1–.44	38.62N	143.20E	0	4.8,4.8		**¶16293282**
JMA	III	09 04 32 05.5–.30	38.62N	143.28E	22–5	5.1,4.8		
ISCJB	III	09 04 32 05.7–.73	38.66N–.02	143.14E–.02	19–5	5.4s,5.1b		
MOS	III	09 04 32 08.2–1.0	38.81N	143.08E	33	5.4b,5.1b		
BJI	III	09 04 32 08.7	38.72N	142.77E	28	6.0b,5.6s		
NEIC	III	09 04 32 09.7–.58	38.67N	143.03E	35–5	5.1b,5.6s		

ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=10.0km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.5km az=154.2.
MOS Error ellipse: s-maj=6.1km s-min=3.7km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=140.0. Recorded [2 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 04 33 29.3–.63**	**38.66N–.07**	**143.22E–.06**	**23**	**4.8b**	**72**	**1-88**
IDC	III	09 04 33 25.8–.70	38.55N	143.13E	0	4.9,4.8		**¶16400369**
JMA	III	09 04 33 27.9–.20	38.52N	143.24E	30	4.7,4.8		
ISCJB	III	09 04 33 27.3–.42	38.54N–.06	143.23E–.05	23	4.8b,4.8		
MOS	III	09 04 33 28.7–1.1	38.56N	143.22E	33	5.0b,4.8		
NEIC	III	09 04 33 31.0–.38	38.51N	143.05E	35	4.8b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=16.2km az=179.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.7km az=151.0.
MOS Error ellipse: s-maj=15.1km s-min=8.5km az=88.8.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.1km az=133.0.

(229) Off east coast of Honshu

ISC	**III**	**09 04 37 02.7–.35**	**38.66N–.03**	**143.12E–.03**	**24–2**	**6.1s,5.6b**	**1445**	**1-159**
NIED	III	09 04 36 00	38.60N	143.20E	23	5.9W,5.6b		**¶16293283**
IDC	III	09 04 36 59.1–.36	38.63N	143.11E	0	6.0,6.0s		
JMA	III	09 04 36 59.1–.20	38.61N	143.25E	11–4	6.1,6.0s		
BJI	III	09 04 37 00.0	38.60N	143.05E	20	6.3b,6.2		
ISCJB	III	09 04 37 01.1–.66	38.67N–.02	143.06E–.02	20–4	6.1s,5.5b		
MOS	III	09 04 37 03.4–.86	38.80N	143.01E	33	5.8b,5.5b		
NEIC	III	09 04 37 05.0–.49	38.67N	142.99E	38–4	5.6b,5.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ66.00000°,λ93.00000°. $M_0$7.56000×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=8.9km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=160.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=103.7.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=135.0. Recorded [3 JMA] in Iwate and Miyagi.

(162) South Island

WEL	**III**	**09 04 44 43.5–.09**	**43.51S**	**172.69E**	**9–0**	**2.8L**	
							¶600711027

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 04 45 53.2–.43**	**38.46N–.03**	**142.82E–.04**	**30–2**	**5.5s,5.4b**	**801**	**1-155**
IDC	III	09 04 45 48.7–.37	38.43N	142.84E	0	5.1,5.1		**¶16293284**
JMA	III	09 04 45 50.5–.20	38.44N	142.94E	22–3	5.3,5.1		
ISCJB	III	09 04 45 51.6–.79	38.45N–.02	142.73E–.02	25–5	5.5s,5.3b		
BJI	III	09 04 45 52.5	38.46N	142.52E	25	6.0b,5.7s		
MOS	III	09 04 45 53.7–.82	38.72N	142.71E	33	5.6b,5.7s		
NEIC	III	09 04 45 55.2–.48	38.47N	142.70E	41–4	5.3b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=10.7km s-min=8.9km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=146.4.
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=139.0. Felt at Sendai. Recorded [2 JMA] in Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 04 47 35.8–.63**	**38.27N–.06**	**143.45E–.06**	**15**	**5.0b**	**49**	**2-81**
IDC	III	09 04 47 33.6–1.4	38.25N	143.47E	0	5.0,4.9		**¶16400370**
ISCJB	III	09 04 47 34.4–.47	38.27N–.05	143.39E–.05	15	4.9b,4.9		
MOS	III	09 04 47 36.0–.72	38.24N	143.51E	33	5.1b,4.9		
JMA	III	09 04 47 36.9–.20	38.28N	143.26E	22	5.0,4.9		
NEIC	III	09 04 47 39.6–.69	38.22N	143.25E	35	4.9b,4.9		

ISC Event type se.
IDC Error ellipse: s-maj=44.5km s-min=19.9km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=152.1.
MOS Error ellipse: s-maj=19.2km s-min=11.5km az=83.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.6km az=86.0.

(229) Off east coast of Honshu

ISC	**III**	**09 06 12 14.7–.43**	**38.61N–.05**	**143.14E–.05**	**23**	**4.8b,4.6s**	**257**	**1-130**
NIED	III	09 06 12 00	38.60N	143.30E	17	4.8W,4.6s		**¶16293287**
IDC	III	09 06 12 10.9–.59	38.58N	143.09E	0	4.6,4.6s		
BJI	III	09 06 12 11.2	38.72N	142.97E	7	5.4b,5.0s		
NEIC	III	09 06 12 12.8–.21	38.63N	143.13E	10	5.0b,5.0s		
ISCJB	III	09 06 12 12.8–.23	38.62N–.03	143.17E–.03	23	4.7b,4.6s		
JMA	III	09 06 12 13.0–.20	38.63N	143.23E	26	4.6,4.6s		
MOS	III	09 06 12 15.3–.95	38.89N	142.97E	29	4.8b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ107.00000°. NP2:ϕ_s2.00000°,δ67.00000°,λ83.00000°. $M_0$1.76000×10^{16}
IDC Error ellipse: s-maj=15.3km s-min=13.1km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=141.0. Recorded [1 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=146.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=111.4.

(229) Off east coast of Honshu

ISC	**III**	**09 06 13 43.3–.51**	**38.25N–.07**	**143.20E–.05**	**18**	**5.0b**	**220**	**1-88**
JMA	III	09 06 13 36.6–.20	38.24N	143.65E	6	4.7		**¶16449428**
IDC	III	09 06 13 40.5–.65	38.23N	143.22E	0	4.7,4.6		
ISCJB	III	09 06 13 41.9–.28	38.24N–.04	143.21E–.04	18	5.1s,4.8b		
MOS	III	09 06 13 44.0–.95	38.27N	143.20E	33	5.1b,4.8b		
NEIC	III	09 06 13 46.5–.55	38.23N	143.13E	39–4	5.1b,4.8b		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=13.9km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=140.8.
MOS Error ellipse: s-maj=8.0km s-min=5.1km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=130.0. Recorded [1 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 06 25 12.5–.42**	**38.32N–.03**	**143.18E–.03**	**15–2**	**5.2b,5.0s**	**581**	**1-154**
NIED	III	09 06 25 00	38.20N	143.50E	23	5.0W,5.0s		**¶16293288**
JMA	III	09 06 25 06.4–.20	38.21N	143.57E	6–4	5.1,5.0s		
IDC	III	09 06 25 09.3–.48	38.21N	143.27E	0	5.0,4.9		
ISCJB	III	09 06 25 09.9–.90	38.25N–.02	143.13E–.03	8–5	5.1b,5.0s		
BJI	III	09 06 25 11.8	38.33N	142.82E	13	5.5b,5.3b		
NEIC	III	09 06 25 14.6–1.4	38.27N	143.05E	27–10	5.0b,5.3b		
MOS	III	09 06 25 14.9–.79	38.53N	143.03E	33	5.4b,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ32.00000°,λ91.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ90.00000°. $M_0$3.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=10.7km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=147.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=135.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=110.0.

(229) Off east coast of Honshu

ISC	**III**	**09 07 13 48.4–.56**	**38.23N–.04**	**143.25E–.04**	**16–2**	**5.0b,4.7s**	**382**	**1-154**
NIED	III	09 07 13 00	38.10N	143.60E	23	4.8W,4.7s		**¶600538181**
JMA	III	09 07 13 43.3–.20	38.13N	143.59E	14–5	4.9,4.7s		
IDC	III	09 07 13 45.5–.49	38.14N	143.29E	0	4.6,4.5		
ISCJB	III	09 07 13 47.6–.21	38.23N–.03	143.19E–.03	18	4.8b,4.6s		
BJI	III	09 07 13 48.1	38.31N	142.82E	10	5.2b,5.0b		
NEIC	III	09 07 13 50.1–1.6	38.21N	143.16E	24–11	5.0b,5.0b		
MOS	III	09 07 13 50.1–1.0	38.50N	143.06E	25	5.2b,4.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ36.00000°,λ118.00000°. NP2:ϕ_s9.00000°,δ59.00000°,λ71.00000°. $M_0$1.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=10.6km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=145.1.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=131.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=109.7.

(229) Off east coast of Honshu

ISC	**III**	**09 07 56 29.3–.38**	**38.74N–.03**	**143.13E–.03**	**31–2**	**5.1b,5.1s**	**923**	**1-154**
NIED	III	09 07 56 00	38.70N	143.00E	17	5.0W,5.1s		**¶16293290**
IDC	III	09 07 56 24.0–.45	38.61N	143.04E	0	4.9,4.9		
JMA	III	09 07 56 25.2–.10	38.64N	143.15E	11–2	5.1,4.9		
BJI	III	09 07 56 26.1	38.75N	142.72E	11	5.3b,5.1b		
ISCJB	III	09 07 56 27.4–.75	38.81N–.02	142.99E–.02	23–5	5.1s,5.0b		
MOS	III	09 07 56 30.0–.87	38.98N	142.91E	36	5.4b,5.0s		
NEIC	III	09 07 56 32.2–.51	38.80N	142.88E	46–4	5.1b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ92.00000°. $M_0$3.80000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=11.2km az=116.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=158.3.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=99.7.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=143.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 08 02 37.4–.36**	**38.58N–.03**	**143.32E–.03**	**29–2**	**5.1b,5.0s**	**1062**	**1-159**
NIED	III	09 08 02 00	38.60N	143.20E	14	5.2W,5.0s		**¶16293291**
JMA	III	09 08 02 33.7–.10	38.60N	143.17E	7–2	5.2,5.0s		
IDC	III	09 08 02 33.0–.38	38.55N	143.16E	0	5.0,4.9		
BJI	III	09 08 02 35.6	38.66N	142.94E	15	5.3b,5.2s		
ISCJB	III	09 08 02 35.6–.09	38.60N–.02	143.15E–.02	24	5.1b,5.0s		
MOS	III	09 08 02 36.9–.91	38.73N	143.16E	33	5.3b,4.4s		
NEIC	III	09 08 02 38.4–1.1	38.61N	143.08E	30–8	5.2b,4.4s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ40.00000°,λ37.00000°. NP2:ϕ_s240.00000°,δ67.00000°,λ124.00000°. $M_0$6.83000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=9.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.7km az=160.9.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=100.1.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=130.0. Felt at Misawa. Recorded [2 JMA] in Iwate and Miyagi.

(162) South Island

WEL	**III**	**09 08 35 59.4–.06**	**43.55S**	**172.71E**	**8–0**	**3.7L**	
							¶603310070

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(229) Off east coast of Honshu

ISC	**III**	**09 08 55 37.3–.82**	**38.61N–.04**	**143.16E–.03**	**15–4**	**4.8b,4.2s**	**316**	**1-154**
NIED	III	09 08 55 00	38.60N	143.20E	17	4.4W,4.2s		**¶16294225**
IDC	III	09 08 55 34.7–.50	38.59N	143.18E	0	4.5,4.5		
BJI	III	09 08 55 35.3	38.74N	143.01E	10	5.0b,4.9b		
JMA	III	09 08 55 35.5–.10	38.61N	143.13E	8–2	4.7,4.9b		
ISCJB	III	09 08 55 36.9–.81	38.64N–.02	143.10E–.03	20–5	4.7b,4.3s		
MOS	III	09 08 55 39.7–.89	38.86N	142.96E	33	5.0b,4.3s		
NEIC	III	09 08 55 40.8–.53	38.62N	143.06E	36–4	4.8b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ11.00000°,λ162.00000°. NP2:ϕ_s229.00000°,δ87.00000°,λ80.00000°. $M_0$4.63000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=12.0km az=126.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=144.2.
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=106.4.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=136.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 10 13 38.5–.41**	**38.75N–.05**	**143.18E–.05**	**23**	**4.6b,3.6s**	**253**	**1-145**
NIED	III	09 10 13 00	38.70N	143.00E	23	4.3W,3.6s		**¶17193540**
BJI	III	09 10 13 36.1	38.76N	143.01E	16	5.0b,4.7b		
ISCJB	III	09 10 13 37.0–.22	38.73N–.03	143.16E–.03	23	4.5b,3.6s		
MOS	III	09 10 13 38.6–.89	38.77N	143.12E	34	4.8b,3.6s		
JMA	III	09 10 13 39.2–.10	38.70N	143.08E	33–5	4.2,3.6s		
IDC	III	09 10 13 40.3–.54	38.63N	143.14E	39–5	4.4,4.3		
NEIC	III	09 10 13 40.6–.54	38.70N	143.12E	38–5	4.7b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ22.00000°,λ69.00000°. NP2:ϕ_s80.00000°,δ69.00000°,λ98.00000°. $M_0$3.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.8km az=152.0.
MOS Error ellipse: s-maj=7.5km s-min=4.7km az=102.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=10.1km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=133.0. Recorded [1 JMA] in Iwate and Miyagi.

(85) Cuba region

NEIC	**III**	**09 11 05 08.4–.73**	**19.38N**	**75.36W**	**5**	**3.5L**	
							¶602442180

NEIC Event type fe. Error ellipse: s-maj=13.6km s-min=8.4km az=162.0. Felt at Santiago de Cuba.

(229) Off east coast of Honshu

ISC	**III**	**09 11 27 51.0–.41**	**38.50N–.03**	**143.27E–.03**	**30–2**	**5.0s,5.0b**	**870**	**1-154**
NIED	III	09 11 27 00	38.50N	143.20E	11	5.2W,5.0b		**¶16294227**
IDC	III	09 11 27 46.5–.40	38.51N	143.17E	0	4.7,4.7s		
JMA	III	09 11 27 47.0–.10	38.55N	143.15E	8–2	5.3,4.7s		
ISCJB	III	09 11 27 47.5–.79	38.51N–.02	143.13E–.02	13–4	5.0s,4.9b		
MOS	III	09 11 27 50.6–.96	38.58N	143.02E	33	5.2b,4.8s		
BJI	III	09 11 27 50.2	38.55N	142.91E	22	5.2s,5.0		
NEIC	III	09 11 27 52.3–1.2	38.54N	143.04E	34–8	5.1b,5.0		
GCMT	III	09 11 27 52.3–.20	38.61N	143.11E	17–1	5.2W,5.0		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ52.00000°,λ-29.00000°. NP2:ϕ_s270.00000°,δ68.00000°,λ-138.00000°. $M_0$7.28000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.8km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=158.1.
MOS Error ellipse: s-maj=6.3km s-min=4.4km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=128.0. Felt at Susono. Recorded [2 JMA] in Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c44; s100,c162; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.03±.30 $M_{\theta\theta}$4.14±.24; $M_{\phi\phi}$-2.10±.23; $M_{r\theta}$5.05±.79; $M_{\theta\phi}$-5.84±.19; $M_{\phi r}$0.67±.57; Best double couple: NP1:ϕ_s261.00000°,δ82.00000°,λ-140.00000°. NP2:ϕ_s164.00000°,δ50.00000°,λ-11.00000°. Principal axes: T 9.1550,Plg21.0000°,Azm26.0000°; N -1.4000,Plg49.0000°,Azm271.0000°; P -7.7460,Plg34.0000°,Azm131.0000° $M_0$8.45100×10^{16}

(229) Off east coast of Honshu

ISC	**III**	**09 12 03 17.8–.66**	**38.33N–.04**	**143.31E–.04**	**20–2**	**4.7b,4.1s**	**482**	**1-150**
NIED	III	09 12 03 00	38.40N	143.20E	11	4.6W,4.1s		**¶16295218**
ISCJB	III	09 12 03 13.2–.86	38.32N–.03	143.24E–.02	0–5	4.7b,4.1s		
IDC	III	09 12 03 14.7–.49	38.28N	143.25E	0	4.5,4.4		
JMA	III	09 12 03 15.4–.10	38.36N	143.18E	13–3	4.8,4.4		
BJI	III	09 12 03 16.6	38.48N	142.91E	10	5.0b,4.6b		
NEIC	III	09 12 03 18.0–2.0	38.35N	143.14E	16–12	4.7b,4.6b		
MOS	III	09 12 03 19.8–1.2	38.61N	143.12E	33	4.8b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ34.00000°,λ47.00000°. NP2:ϕ_s241.00000°,δ66.00000°,λ115.00000°. $M_0$1.02000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=167.7.
IDC Error ellipse: s-maj=14.0km s-min=10.7km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=124.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=107.3.

(162) South Island

WEL	**III**	**09 12 48 49.5–.05**	**43.57S**	**172.63E**	**8–0**	**3.6L**	**¶16298767**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(123) Northern Chile

ISC	**III**	**09 13 24 07.7–.28**	**27.57S–.03**	**69.16W–.04**	**113–2**	**5.0b**	**809**	**1-176**
MOS	III	09 13 24 02.8–1.1	27.47S	69.06W	74	5.3b		**¶16295222**
ISCJB	III	09 13 24 04.8–.35	27.42S–.03	68.97W–.03	95–3	4.9b		
GCMT	III	09 13 24 06.0–.30	27.53S	69.29W	115–3	5.2W		
NEIC	III	09 13 24 06.0	27.54S	69.09W	101	5.0,5.0b		
BJI	III	09 13 24 07.9	27.50S	68.90W	108	5.1b,5.0b		
IDC	III	09 13 24 07.9–.39	27.47S	68.94W	112–3	4.7,4.5		
SJA	III	09 13 24 08.7–.73	27.66S	68.82W	151–19	4.8W,4.5L		
GUC	III	09 13 24 08.5–.59	27.67S	69.53W	125–9	5.2L,4.5L		

ISC Event type fe.
MOS Error ellipse: s-maj=13.9km s-min=6.9km az=108.3.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=144.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c33; s79,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.34±.24 $M_{\theta\theta}$-0.39±.26; $M_{\phi\phi}$5.73±.33; $M_{r\theta}$-1.67±.18; $M_{\theta\phi}$0.03±.28; $M_{\phi r}$3.69±.27; Best double couple: NP1:ϕ_s166.00000°,δ63.00000°,λ-104.00000°. NP2:ϕ_s15.00000°,δ30.00000°,λ-65.00000°. Principal axes: T 6.8760,Plg17.0000°,Azm266.0000°; N -0.0210,Plg12.0000°,Azm172.0000°; P -6.8580,Plg69.0000°,Azm49.0000° $M_0$6.86700×10^{16}
NEIC Event type fe. Felt [IV] at Copiapo and Tierra Amarilla; [III] at Diego de Almagro; [II] at Alto del Carmen, Caldera, Chanaral and Vallenar. Felt [III] in the Villa Union area, Argentina. After SJA.
IDC Error ellipse: s-maj=15.2km s-min=10.1km az=81.0.
SJA Error ellipse: s-maj=5.5km s-min=11.5km az=-1.0.
GUC Error ellipse: s-maj=2.8km s-min=10.7km az=-1.0.

(162) South Island

WEL	**III**	**09 13 48 37.6–.07**	**43.58S**	**172.63E**	**8–0**	**4.0L**		
NEIC	III	09 13 48 37.4	43.58S	172.65E	10	4.0L		**¶16298769**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(229) Off east coast of Honshu

ISC	**III**	**09 14 24 07.0–.66**	**38.53N–.04**	**143.23E–.04**	**17–3**	**4.6b,4.2s**	**236**	**1-144**
NIED	III	09 14 24 00	38.60N	143.40E	14	4.6W,4.2s		**¶16295227**
IDC	III	09 14 24 04.2–.58	38.52N	143.29E	0	4.4,4.3		
ISCJB	III	09 14 24 04.4–.90	38.55N–.03	143.30E–.03	14–5	4.5b,4.2s		
JMA	III	09 14 24 05.5–.10	38.56N	143.32E	26	4.7,4.2s		
BJI	III	09 14 24 06.1	38.59N	142.86E	10	5.0b,4.7b		
NEIC	III	09 14 24 07.0–.59	38.57N	143.20E	19–3	4.8b,4.7b		
MOS	III	09 14 24 07.6–1.2	38.66N	143.26E	33	4.6b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ51.00000°,λ151.00000°. NP2:ϕ_s358.00000°,δ67.00000°,λ43.00000°. $M_0$1.05000×10^{16}
IDC Error ellipse: s-maj=15.6km s-min=12.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.8km az=112.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=8.6km s-min=5.1km az=104.7.

(229) Off east coast of Honshu

ISC	**III**	**09 16 59 24.2–.53**	**38.48N–.05**	**143.24E–.06**	**23**	**4.3b,3.4s**	**122**	**1-88**
NIED	III	09 16 59 00	38.50N	143.10E	23	4.4W,3.4s		**¶16303954**
JMA	III	09 16 59 19.9–.10	38.47N	143.37E	23–4	4.4,3.4s		
IDC	III	09 16 59 20.5–.64	38.46N	143.10E	0	4.2,4.1		
ISCJB	III	09 16 59 22.2–.35	38.50N–.03	143.23E–.04	23	4.2b,3.5s		
MOS	III	09 16 59 24.1–1.3	38.53N	143.18E	33	4.5b,3.5s		
NEIC	III	09 16 59 25.8–2.3	38.53N	143.11E	34–15	4.6b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ26.00000°,λ78.00000°. NP2:ϕ_s28.00000°,δ65.00000°,λ96.00000°. $M_0$4.56000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.0km s-min=13.0km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=144.2.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=6.4km az=124.0. Recorded [1 JMA] in Miyagi.

(248) Philippine Islands region

ISC	**III**	**09 17 57 28.7–.42**	**18.78N–.03**	**121.41E–.03**	**70–3**	**4.8b**	**394**	**1-172**
MOS	III	09 17 57 23.5–1.1	18.64N	121.48E	46	5.1b		**¶16295229**
BJI	III	09 17 57 26.3	18.78N	121.39E	60	4.9b,4.9L		
MAN	III	09 17 57 26	19.92N	121.16E	35	5.6b,5.2s		
ISCJB	III	09 17 57 27.4–.30	18.79N–.02	121.38E–.02	71–3	4.7b,5.2s		
IDC	III	09 17 57 27.1–1.4	18.72N	121.47E	62–11	4.7,4.5		
GCMT	III	09 17 57 27.3–.20	18.84N	121.17E	56–2	5.3W,4.5		
NEIC	III	09 17 57 27.3–.56	18.70N	121.45E	61–5	4.9b,4.5		
BKK	III	09 17 57 40.7–2.4	19N–14	121E–13	155–18	4.9b,4.6b		

ISC Event type fe.
MAN Event type fe. INTENSITY II - LAOAG CITY; PASUQUIN ILOCOS NORTE; SARRAT ILOCOS NORTE.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c118; s85,c149;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.03 $M_{\theta\theta}$0.22±.02; $M_{\phi\phi}$-0.56±.02; $M_{r\theta}$-0.58±.02; $M_{\theta\phi}$0.00±.02; $M_{\phi r}$0.60±.02; Best double couple: NP1:ϕ_s324.00000°,δ79.00000°,λ66.00000°. NP2:ϕ_s210.00000°,δ26.00000°,λ154.00000°. Principal axes: T 1.0030,Plg50.0000°,Azm208.0000°; N -0.0660,Plg23.0000°,Azm329.0000°; P -0.9360,Plg30.0000°,Azm73.0000° $M_0$0.97000×10^{17}
NEIC Event type fe. Felt [II PIVS] at Laoag, Pasuquin and Sarrat.

(228) Near east coast of eastern Honshu

ISC	**III**	**09 18 16 16.1–.24**	**38.28N–.02**	**142.70E–.02**	**25–1**	**5.9s,5.8b**	**2057**	**1-163**
NIED	III	09 18 16 00	38.30N	142.90E	23	6.0W,5.8b		**¶602442182**
IDC	III	09 18 16 11.8–.31	38.29N	142.73E	0	6.0,6.0s		
BJI	III	09 18 16 12.5	38.35N	142.50E	20	6.4s,6.3		
JMA	III	09 18 16 14.1–.10	38.27N	142.88E	29–2	6.4,6.3		
ISCJB	III	09 18 16 14.1–.45	38.29N–.01	142.74E–.01	22–3	6.0s,5.8b		
NEIC	III	09 18 16 15.0–.00	38.13N	142.94E	20	6.0s,5.8b		
MOS	III	09 18 16 15.3–.76	38.42N	142.82E	33	6.2s,6.0b		
GCMT	III	09 18 16 16.4–.10	38.33N	142.80E	29–0	6.1W,6.0b		
NEIC	III	09 18 16 16.4–.11	38.32N	142.43E	22	6.0W,6.0W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ19.00000°,λ89.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ90.00000°. $M_0$1.10000×10^{18}
IDC Error ellipse: s-maj=7.1km s-min=6.2km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=160.0.
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}0.66 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-0.53 $M_{r\theta}$0.52 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.04 Best double couple: NP1:ϕ_s25.00000°,δ76.00000°,λ93.00000°. NP2:ϕ_s195.00000°,δ14.00000°,λ79.00000°. Principal axes: T 1.3600,Plg58.0000°,Azm299.0000°; N -0.0900,Plg2.0000°,Azm204.0000°; P -1.2700,Plg30.0000°,Azm113.0000° $M_0$1.30000×10^{18}
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=101.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c271; s134,c430;Duration: 2s6 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$-0.89±.01; $M_{r\theta}$0.51±.01; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$1.15±.02; Best double couple: NP1:ϕ_s22.00000°,δ71.00000°,λ94.00000°. NP2:ϕ_s192.00000°,δ19.00000°,λ80.00000°. Principal axes: T 1.5690,Plg64.0000°,Azm298.0000°; N 0.0320,Plg3.0000°,Azm201.0000°; P -1.6010,Plg26.0000°,Azm110.0000° $M_0$1.58500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=145.0. Felt [III] at Misawa. Also felt at Mito, Otawara, Tatebayashi, Tokyo, Yokohama and Yokosuka. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$2.80000×10^{18} Moment Tensor Solution. Best double couple: NP1: ϕ_s153.00000°,δ25.00000°,λ42.00000°. NP2:ϕ_s24.00000°,δ74.00000°,λ109.00000°. Principal axes: T 1.2500,Plg57.0000°,Azm319.0000°; N 0.0800,Plg18.0000°,Azm198.0000°; P -1.3300,Plg26.0000°,Azm99.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s210.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s30.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm300.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm120.0000°

(229) Off east coast of Honshu

ISC	**III**	**09 18 44 37.3–.37**	**38.52N–.02**	**143.33E–.03**	**20–1**	**5.9s,5.7b**	**1784**	**1-160**
NIED	III	09 18 44 00	38.50N	143.40E	11	5.8W,5.7b		**¶16295231**
BJI	III	09 18 44 33.4	38.50N	143.30E	10	6.4s,6.2		
IDC	III	09 18 44 33.9–.34	38.41N	143.28E	0	5.7,5.7s		
ISCJB	III	09 18 44 34.1–.56	38.50N–.02	143.27E–.01	6–3	6.0s,5.7b		
JMA	III	09 18 44 35.7–.20	38.48N	143.43E	36	6.3,5.7b		
NEIC	III	09 18 44 35.0–.00	38.50N	143.40E	20	6.3,5.7b		
MOS	III	09 18 44 38.2–1.0	38.68N	143.24E	33	6.0s,5.9b		
GCMT	III	09 18 44 38.5–.10	38.47N	143.50E	18–0	5.9W,5.9b		
NEIC	III	09 18 44 38.5–1.2	38.50N	143.17E	24–8	5.9W,5.8s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ24.00000°,λ80.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ94.00000°. $M_0$5.90000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=7.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=161.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}2.60 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-2.70 $M_{r\theta}$3.70 $M_{\theta\phi}$-0.50 $M_{\phi r}$7.10 Best double couple: NP1:ϕ_s26.00000°,δ81.00000°,λ95.00000°. NP2:ϕ_s175.00000°,δ10.00000°,λ59.00000°. Principal axes: T 8.5000,Plg53.0000°,Azm302.0000°; N -0.1000,Plg5.0000°,Azm205.0000°; P -8.3000,Plg35.0000°,Azm111.0000° $M_0$8.00000×10^{17}
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=101.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c230; s134,c376;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}4.61±.08 $M_{\theta\theta}$-0.24±.05; $M_{\phi\phi}$-4.36±.06; $M_{r\theta}$3.09±.14; $M_{\theta\phi}$-1.45±.04; $M_{\phi r}$6.49±.21; Best double couple: NP1:ϕ_s24.00000°,δ73.00000°,λ94.00000°. NP2:ϕ_s190.00000°,δ17.00000°,λ77.00000°. Principal axes: T 8.5260,Plg61.0000°,Azm300.0000°; N 0.1490,Plg4.0000°,Azm203.0000°; P -8.6690,Plg28.0000°,Azm111.0000° $M_0$8.59700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=144.0. Felt at Misawa and Tokyo. Recorded [3 JMA] in Miyagi.

(502) Arkansas

ISC	**III**	**09 20 48 29.8–.91**	**35.26N–.02**	**92.38W–.02**	**9–7**		**169**	**0-16**
NEIC	III	09 20 48 31.0	35.24N	92.40W	6	3.5,3.3W		**¶16930184**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Batesville, Beebe, Blytheville, Damascus, Hector, Horseshoe Bend, Jacksonville, Lonsdale, Nashville, Sherwood and Vilonia. Felt at Leasburg, Poplar Bluff and West Plains, Missouri. After CERI. Moment Tensor Solution. $M_0$1.30000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**III**	**09 21 00 56.0–.51**	**38.25N–.04**	**142.87E–.04**	**24–3**	**4.8b,4.7s**	**334**	**1-146**
NIED	III	09 21 00 00	38.30N	142.90E	26	4.9W,4.7s		**¶16298777**
IDC	III	09 21 00 52.7–.54	38.27N	142.86E	0	4.5,4.4		
ISCJB	III	09 21 00 54.5–.82	38.28N–.02	142.85E–.03	22–5	4.8b,4.7s		
JMA	III	09 21 00 54.6–.10	38.26N	142.91E	28–2	4.9,4.7s		
BJI	III	09 21 00 55.2	38.29N	142.53E	23	5.1b,4.8b		
MOS	III	09 21 00 57.1–1.2	38.40N	142.77E	37	5.0b,4.2s		
NEIC	III	09 21 00 59.1–.78	38.27N	142.74E	42–7	4.9b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ24.00000°,λ86.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ92.00000°. $M_0$2.56000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=11.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.4km az=138.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.3km az=111.1.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 21 24 01.8–.54**	**38.24N–.03**	**142.87E–.03**	**15–2**	**6.5s,6.0b**	**663**	**1-160**
NIED	III	09 21 23 00	38.20N	143.00E	20	6.5W,6.0b		**¶16337993**
ISCJB	III	09 21 23 57.8–.85	38.21N–.02	142.93E–.02	1–5	6.5s,5.9b		
JMA	III	09 21 23 59.7–.20	38.17N	143.04E	9–3	6.8,5.9b		
IDC	III	09 21 23 59.4–.45	38.32N	142.79E	0	6.6,6.6s		
BJI	III	09 21 23 59.0	38.30N	143.05E	10	6.9b,6.9s		
NEIC	III	09 21 24 01.7–1.7	38.30N	142.81E	15–10	6.4s,6.0b		
GCMT	III	09 21 24 02.7–.10	38.27N	142.82E	23–0	6.5W,6.0b		
MOS	III	09 21 24 03.3–1.2	38.38N	142.88E	33	6.1b,6.0b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ85.00000°. $M_0$5.51000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=136.0. Felt [III] at Tokyo and [II] at Misawa. Felt widely in eastern Honshu. Recorded [4 JMA] in Miyagi. Moment Tensor Solution. $M_0$6.30000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c305; s144,c551;Duration: 4s1 Moment tensor: Scale 10^{18} Nm; M_{rr}3.79±.03 $M_{\theta\theta}$-0.28±.02; $M_{\phi\phi}$-3.51±.03; $M_{r\theta}$1.90±.05; $M_{\theta\phi}$-1.04±.02; $M_{\phi r}$4.42±.06; Best double couple: NP1:ϕ_s22.00000°,δ71.00000°,λ94.00000°. NP2:ϕ_s191.00000°,δ19.00000°,λ80.00000°. Principal axes: T 6.1370,Plg64.0000°,Azm298.0000°; N -0.0060,Plg3.0000°,Azm201.0000°; P -6.1280,Plg26.0000°,Azm109.0000° $M_0$6.13300×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=4.9km az=98.8.

(192) New Britain region

ISC	**III**	**09 21 24 52.1–.32**	**6.12S–.03**	**149.79E–.03**	**51–2**	**6.4s,5.8b**	**569**	**3-155**
ISCJB	III	09 21 24 49.0–1.1	6.00S–.02	149.72E–.02	33–7	6.4s,5.7b		**¶602442187**
NEIC	III	09 21 24 49.8–.17	5.99S	149.78E	29	6.5s,6.4W		
GCMT	III	09 21 24 49.8–.10	6.26S	149.75E	51–0	6.3W,6.4W		
BJI	III	09 21 24 49.1	5.95S	149.65E	30	6.5s,6.4b		
MOS	III	09 21 24 50.7–.98	6.00S	149.71E	47	6.2s,6.0b		
NEIC	III	09 21 24 51.0–.00	6.02S	149.66E	29	6.2s,6.0b		
IDC	III	09 21 24 51.7–.56	6.13S	150.14E	53–5	6.0s,6.0		
DJA	III	09 21 24 58.5–.60	6S–3.0	150E–4.0	92–5	6.6,6.3b		

ISC Event type se.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Kimbe. Depth from synthetics of broadband displacement seismograms.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c207; s131,c468;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}3.75±.04 $M_{\theta\theta}$-3.96±.02; $M_{\phi\phi}$0.20±.03; $M_{r\theta}$0.39±.02; $M_{\theta\phi}$-0.28±.02; $M_{\phi r}$-0.21±.03; Best double couple: NP1:ϕ_s90.00000°,δ48.00000°,λ95.00000°. NP2:ϕ_s262.00000° ,δ42.00000°,λ84.00000°. Principal axes: T 3.7840,Plg85.0000°,Azm50.0000° ; N 0.2060,Plg4.0000°,Azm266.0000°; P -3.9970,Plg3.0000°,Azm176.0000° M_o3.89000×10^{18}

NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{18}Nm; M_{rr}4.30 $M_{\theta\theta}$-4.00 $M_{\phi\phi}$-0.30 $M_{r\theta}$3.30 $M_{\theta\phi}$-0.50 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s81.00000° ,δ64.00000°,λ89.00000°. NP2:ϕ_s264.00000°,δ26.00000°,λ93.00000°. Principal axes: T 5.5000,Plg70.0000°,Azm347.0000°; N -0.3000,Plg1.0000°,Azm81.0000° ; P -5.2000,Plg19.0000°,Azm171.0000° M_o5.00000×10^{18}

(502) Arkansas

ISC	**III**	**09 22 17 40.6–.90**	**35.28N–.03**	**92.34W–.03**	**10**		**68**	**1-5**
NEIC	III	09 22 17 41.0	35.27N	92.34W	4	2.6		**¶16915394**
ISCJB	III	09 22 17 41.0–.45	35.25N–.02	92.32W–.03	10	2.6		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Greenbrier and [II] at Conway. Also felt at Morrilton and Sherwood. After CERI.

ISCJB Event type fe.

(259) Mindanao

ISC	**III**	**09 23 02 08.8–.88**	**6.39N–.07**	**124.72E–.07**	**36**	**3.7b**	**14**	**1-54**
IDC	III	09 23 02 04.4–.97	6.24N	124.71E	0	3.9,3.7		**¶17193585**
ISCJB	III	09 23 02 06.9–.63	6.37N–.05	124.70E–.07	36	3.5b,3.7		
MAN	III	09 23 02 06	6.28N	124.76E	20	4.8b,3.7L		

ISC Event type fe.

IDC Error ellipse: s-maj=21.8km s-min=11.9km az=117.0.

ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.5km az=173.4.

MAN Event type fe. INTENSITY II - KORONADAL CITY; BAGUMBAYAN SULTAN KUDARAT.

(160) Off east coast of North Island

ISC	**III**	**09 23 27 04.7–1.2**	**36.9S–.10**	**177.13E–.07**	**200**	**4.0b**	**111**	**1-156**
NEIC	III	09 23 27 04.2	36.54S	177.37E	194	3.9b		**¶16298787**
ISCJB	III	09 23 27 04.1–.67	36.74S–.06	177.07E–.06	200	4.0b		
WEL	III	09 23 27 05.1–.68	36.60S	177.42E	191–6	4.6L		
IDC	III	09 23 27 14.2–6.7	38.46S	177.80E	386–56	4.2,3.7		

ISC Event type fe.

NEIC Event type fe. Felt at Ureweras. After WEL.

ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=171.8.

WEL Event type ke. Error ellipse: s-maj=9.1km s-min=7.6km az=90.0.

IDC Error ellipse: s-maj=69.3km s-min=30.3km az=47.0.

(229) Off east coast of Honshu

ISC	**III**	**09 23 36 59.3–.54**	**38.46N–.03**	**143.24E–.03**	**26–3**	**5.4b,4.8s**	**1348**	**1-160**
NIED	III	09 23 36 00	38.40N	143.40E	8	5.0W,4.8s		**¶16299022**
IDC	III	09 23 36 55.2–.33	38.39N	143.25E	0	5.2,5.2		
ISCJB	III	09 23 36 55.2–.82	38.39N–.02	143.25E–.02	9–5	5.4b,4.9s		
JMA	III	09 23 36 56.1–.10	38.39N	143.41E	35	5.2,4.9s		
MOS	III	09 23 36 57.9–.81	38.63N	143.14E	19	5.6b,4.5s		
NEIC	III	09 23 36 58.7–1.2	38.40N	143.17E	20–7	5.4b,4.5s		
BJI	III	09 23 37 00.4	38.45N	142.77E	33	5.5b,5.3b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ37.00000°,λ95.00000°. NP2:ϕ_s45.00000°,δ53.00000°,λ86.00000°. M_o3.39000×10^{16}

IDC Error ellipse: s-maj=11.1km s-min=8.6km az=100.0.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=162.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

MOS Error ellipse: s-maj=5.5km s-min=3.6km az=101.1.

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=137.0. Recorded [2 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**09 23 57 41.5–.44**	**38.33N–.04**	**143.29E–.04**	**19–1**	**4.8b,4.7s**	**310**	**1-146**
NIED	III	09 23 57 00	38.40N	143.30E	11	4.9W,4.7s		**¶16298790**
BJI	III	09 23 57 38.4	38.37N	143.02E	2	5.2b,4.9s		
JMA	III	09 23 57 39.8–.20	38.38N	143.30E	25–5	4.9,4.9s		
ISCJB	III	09 23 57 39.0–.97	38.30N–.03	143.30E–.03	13–6	4.7b,4.7s		
NEIC	III	09 23 57 41.5–1.7	38.24N	143.29E	20–12	4.9b,4.7s		
IDC	III	09 23 57 42.0–.54	38.29N	143.31E	24–2	4.4,4.3		
MOS	III	09 23 57 43.0–1.1	38.50N	143.24E	33	5.0b,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ65.00000°,λ-165.00000°. NP2:ϕ_s163.00000°,δ76.00000°,λ-26.00000°. M_o2.18000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=152.6.

NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=132.0. Recorded [1 JMA] in Miyagi.

IDC Error ellipse: s-maj=12.4km s-min=10.4km az=130.0.

MOS Error ellipse: s-maj=9.4km s-min=6.4km az=105.8.

(162) South Island

WEL	**III**	**10 00 05 32.1–.05**	**43.56S**	**172.68E**	**5**	**3.7L**		**¶16298791**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(229) Off east coast of Honshu

ISC	**III**	**10 01 20 22.2–.49**	**38.37N–.04**	**143.15E–.04**	**22–4**	**4.8b,4.4s**	**330**	**1-144**
NIED	III	10 01 20 00	38.40N	143.20E	17	4.7W,4.4s		**¶16298677**
IDC	III	10 01 20 18.8–.54	38.35N	143.14E	0	4.5,4.5		
BJI	III	10 01 20 19.6	38.44N	143.23E	24	5.1b,4.8b		
ISCJB	III	10 01 20 19.9–.86	38.36N–.03	143.16E–.04	16–5	4.7b,4.4s		
JMA	III	10 01 20 20.7–.20	38.36N	143.21E	30–5	4.7,4.4s		
MOS	III	10 01 20 22.6–.96	38.40N	143.10E	33	5.0b,4.4s		
NEIC	III	10 01 20 23.2–1.4	38.38N	143.11E	27–10	4.9b,4.4s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ25.00000°,λ83.00000°. NP2:ϕ_s27.00000°,δ66.00000°,λ93.00000°. M_o1.15000×10^{16}

IDC Error ellipse: s-maj=14.4km s-min=11.5km az=119.0.

ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=38.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=7.1km s-min=4.4km az=110.4.

NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=3.9km az=115.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.

(460) Wyoming

ISC	**III**	**10 01 38 13.2–1.0**	**42.87N–.02**	**104.10W–.02**	**6–9**		**176**	**1-14**
NEIC	III	10 01 38 13.7–.31	42.86N	104.09W	5	2.9		**¶16359831**
IDC	III	10 01 38 14.0–1.3	43.14N	104.51W	0	3.3,3.2		

ISC Event type fe.

NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.9km az=78.0. Felt [II] at Lusk.

IDC Error ellipse: s-maj=21.3km s-min=8.4km az=152.0.

(80) Panama-Costa Rica border region

ISC	**III**	**10 04 26 46.2–.44**	**8.12N–.06**	**82.83W–.04**	**10**	**4.5b,3.6s**	**139**	**2-154**
ISCJB	III	10 04 26 45.4–.33	8.13N–.05	82.82W–.04	10	4.3b,3.7s		**¶16359832**
IDC	III	10 04 26 45.3–.83	8.49N	82.72W	0	4.3,4.2		
BJI	III	10 04 26 45.5	8.10N	82.80W	10	5.2b,4.2		
CASC	III	10 04 26 46.3–1.7	8.08N	82.66W	25	4.8,4.6b		
NEIC	III	10 04 26 48.0–2.2	8.01N	82.83W	25–16	5.0L,5.0		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=3.0km az=31.6.

IDC Error ellipse: s-maj=35.3km s-min=14.1km az=41.0.

CASC Error ellipse: s-maj=22.6km s-min=25.1km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=6.5km az=209.0. Felt [III] at Boquete, Panama. Also felt at Alanje, David, Horconcitos, Potrerillos Arriba and Volcan. Felt at Buenos Aires, Cahuita, San Isidro and San Vito, Costa Rica.

(297) Myanmar-China border region

ISC	**III**	**10 04 58 16.5–.34**	**24.76N–.03**	**97.90E–.02**	**24–2**	**5.5b,5.3s**	**838**	**4-169**
IDC	III	10 04 58 11.9–.35	24.71N	97.97E	0	5.5L,5.2		**¶16298683**
BJI	III	10 04 58 12.4	24.65N	97.95E	10	5.9s,5.6		
NEIC	III	10 04 58 13.8–.12	24.73N	97.96E	10	5.4L,5.4b		
MOS	III	10 04 58 14.4–.98	24.68N	97.96E	27	5.7b,5.2s		
GCMT	III	10 04 58 15.7–.10	24.64N	97.98E	15	5.5W,5.2s		
ISCJB	III	10 04 58 15.1–.10	24.70N–.02	97.95E–.02	30	5.4b,5.3s		
BKK	III	10 04 58 17.0–6.0	24N–47	98E–21	10	6.1,5.6b		

ISC Event type de.

NEIC Event type de. Twenty-five people killed, 250 injured, 1,039 homes destroyed, 12,528 buildings damaged, several roads damaged and electricity and telecommunications disrupted in the Pingyuan area, China. Felt at Dali. Also felt at Khonsa, India.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c172; s128,c271;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.02 $M_{\theta\theta}$-1.68±.02; $M_{\phi\phi}$1.33±.02; $M_{r\theta}$-0.09±.06; $M_{\theta\phi}$1.18±.02; $M_{\phi r}$0.33±.07; Best double couple: NP1:ϕ_s333.00000°,δ85.00000°,λ169.00000°. NP2:ϕ_s64.00000° ,δ79.00000°,λ5.00000°. Principal axes: T 1.7930,Plg11.0000°,Azm288.0000° ; N 0.3090,Plg78.0000°,Azm131.0000°; P -2.1030,Plg5.0000°,Azm19.0000° M_o1.94800×10^{17}

ISCJB Event type de.

(135) Near coast of central Chile

ISC	**III**	**10 06 45 50.1–1.3**	**34.61S–.03**	**71.81W–.05**	**2–10**		**19**	**0-84**
GUC	III	10 06 45 48.7–.80	34.60S	71.79W	14–4	3.9L		**¶16442214**
NEIC	III	10 06 45 48.0	34.60S	71.79W	14	3.9L		
IDC	III	10 06 45 49.7–1.6	34.70S	72.52W	0	3.9L,3.8		
ISCJB	III	10 06 45 49.6–.77	34.61S–.03	71.82W–.05	8–6	3.4b,3.8		

ISC Event type fe.

NEIC Event type fe. Felt [II] at Curico and Talca. After GUC.

ISCJB Event type fe.

(162) South Island

ISC	**III**	**10 07 07 09.4–.96**	**43.56S–.03**	**172.85E–.03**	**9–6**	**4.2b**	**209**	**0-149**
ISCJB	III	10 07 07 07.2–.51	43.64S–.02	172.93E–.03	6–3	4.6s,4.4b		**¶16298799**
IDC	III	10 07 07 09.2–1.6	43.39S	172.66E	0	4.2,3.9b		
NEIC	III	10 07 07 09.0	43.55S	172.74E	10	4.7b,4.5L		
WEL	III	10 07 07 11.1–.06	43.54S	172.71E	8–0	4.5L,4.5L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.3km az=140.8.

IDC Error ellipse: s-maj=50.0km s-min=17.5km az=162.0.

NEIC Event type fe. Felt [VI] in the Christchurch area. Felt widely in Canterbury. After WEL. Moment Tensor Solution. s12 Moment tensor: Scale 10^{15}Nm; M_{rr}0.15 $M_{\theta\theta}$-0.42 $M_{\phi\phi}$0.28 $M_{r\theta}$0.39 $M_{\theta\phi}$-2.41 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s185.00000°,δ80.00000°,λ10.00000°. NP2:ϕ_s93.00000°,δ80.00000°,λ170.00000°. Principal axes: T 2.5100,Plg14.0000° ,Azm49.0000°; N 0.0000,Plg76.0000°,Azm230.0000°; P -2.5100,Plg0.0000°,Azm139.0000° M_o2.50000×10^{15}

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt from West Coast to Otago, maximum reported intensity MM 6.

(229) Off east coast of Honshu

ISC	**III**	**10 07 33 02.8–.46**	**38.87N–.04**	**142.72E–.05**	**22–2**	**4.7b,4.2s**	**262**	**1-145**
NIED	III	10 07 32 00	38.50N	143.70E	8	4.6W,4.2s		**¶16298688**
IDC	III	10 07 32 53.4–.62	38.44N	143.55E	0	4.3,4.2		
JMA	III	10 07 32 54.8–.10	38.47N	143.65E	35	4.6,4.2		
MOS	III	10 07 32 59.2–1.1	38.75N	143.23E	33	4.8b,4.2		
BJI	III	10 07 33 01.1	38.70N	142.62E	19	5.0b,4.7b		
ISCJB	III	10 07 33 02.7–1.1	38.97N–.03	142.48E–.04	22–7	4.5b,4.1s		
NEIC	III	10 07 33 04.8–2.1	38.91N	142.45E	27–15	4.8b,4.1s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ33.00000°,λ54.00000°. NP2:ϕ_s39.00000°,δ64.00000°,λ110.00000°. M_o7.91000×10^{15}

IDC Error ellipse: s-maj=15.5km s-min=13.0km az=146.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

MOS Error ellipse: s-maj=7.9km s-min=5.1km az=112.0.

ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=135.1.

NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.6km az=151.0.

(229) Off east coast of Honshu

ISC	**III**	**10 08 08 20.7–.37**	**38.64N–.03**	**143.37E–.03**	**23–2**	**5.4s,5.3b**	**1228**	**1-159**
NIED	III	10 08 08 00	38.50N	143.70E	11	5.6W,5.3b		**¶16298689**
IDC	III	10 08 08 16.6–.41	38.56N	143.43E	0	5.3,5.3s		
ISCJB	III	10 08 08 16.7–.66	38.59N–.02	143.40E–.02	6–4	5.5s,5.3b		
BJI	III	10 08 08 17.7	38.61N	143.16E	12	6.0s,5.9		
JMA	III	10 08 08 18.1–.10	38.57N	143.54E	34	5.9,5.9		
NEIC	III	10 08 08 20.6–.50	38.60N	143.27E	17–3	5.6W,5.4b		
GCMT	III	10 08 08 20.6–.10	38.53N	143.61E	17–0	5.7W,5.4b		
MOS	III	10 08 08 22.5–1.0	38.89N	143.25E	33	5.5b,5.4s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ29.00000°,λ70.00000°. NP2:ϕ_s28.00000°,δ63.00000°,λ101.00000°. M_o2.41000×10^{17}

IDC Error ellipse: s-maj=12.3km s-min=10.3km az=115.0.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=165.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=149.0. Recorded [2 JMA] in Fukushima, Iwate, Miyagi and Yamagata. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}1.96 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$-1.41 $M_{r\theta}$1.73 $M_{\theta\phi}$-0.64 $M_{\phi r}$2.24 Best double couple: NP1:ϕ_s203.00000°,δ17.00000°,λ77.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ94.00000°. Principal axes: T 3.5000,Plg61.0000°,Azm312.0000°; N -0.2300,Plg4.0000°,Azm215.0000° ; P -3.2600,Plg28.0000°,Azm123.0000° M_o3.40000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s106,c193; s135,c337;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.08±.04 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$-1.96±.03; $M_{r\theta}$1.50±.08; $M_{\theta\phi}$-0.64±.02; $M_{\phi r}$2.83±.11; Best double couple: NP1:ϕ_s26.00000° ,δ73.00000°,λ95.00000°. NP2:ϕ_s188.00000°,δ17.00000°,λ73.00000°. Principal axes: T 3.8280,Plg61.0000°,Azm304.0000°; N 0.0280,Plg5.0000°,Azm205.0000° ; P -3.8540,Plg28.0000°,Azm112.0000° M_o3.84100×10^{17}

MOS Error ellipse: s-maj=5.8km s-min=3.6km az=104.7.

(229) Off east coast of Honshu

ISC	**III**	**10 08 59 18.8–.74**	**38.55N–.05**	**143.40E–.05**	**20–3**	**4.6b,4.6s**	**237**	**1-145**
NIED	III	10 08 59 00	38.60N	143.40E	23	4.8W,4.6s		**¶16304926**
IDC	III	10 08 59 15.6–.57	38.51N	143.31E	0	4.3,4.3		
ISCJB	III	10 08 59 16.3–.99	38.58N–.03	143.36E–.03	14–6	4.8s,4.5b		
JMA	III	10 08 59 16.9–.10	38.58N	143.42E	33	4.8,4.5b		
BJI	III	10 08 59 17.8	38.68N	142.97E	10	5.4b,5.1s		
MOS	III	10 08 59 19.0–1.3	38.63N	143.37E	33	4.9b,5.1s		
NEIC	III	10 08 59 19.8–1.6	38.56N	143.35E	25–11	4.9b,5.1s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_s22.00000°,δ58.00000°,λ92.00000°. M_o2.11000×10^{16}

IDC Error ellipse: s-maj=14.7km s-min=12.7km az=132.0.

ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.5km az=146.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

MOS Error ellipse: s-maj=7.6km s-min=4.9km az=104.3.

NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=135.0. Recorded [1 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**10 09 02 21.6–.36**	**38.67N–.03**	**143.29E–.03**	**25–2**	**5.3s,5.3b**	**1155**	**1-159**
NIED	III	10 09 02 00	38.60N	143.50E	14	5.3W,5.3b		**¶602651810**
JMA	III	10 09 02 18.0–.20	38.59N	143.46E	23–5	5.4,5.3b		
BJI	III	10 09 02 18.2	38.66N	143.02E	8	5.6b,5.5s		
IDC	III	10 09 02 20.0–3.0	38.59N	143.31E	15–18	4.9,4.9		
ISCJB	III	10 09 02 19.3–.70	38.60N–.02	143.25E–.02	18–4	5.2s,5.2b		
MOS	III	10 09 02 22.9–.81	38.92N	143.06E	33	5.5b,5.3s		
GCMT	III	10 09 02 23.7–.10	38.62N	143.42E	23–0	5.3W,5.3s		
NEIC	III	10 09 02 24.0–.42	38.62N	143.12E	38–3	5.2b,5.3s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ26.00000°,λ95.00000°. NP2:ϕ_s19.00000°,δ64.00000°,λ88.00000°. M_o8.48000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=11.3km s-min=9.2km az=112.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=158.2.

MOS Error ellipse: s-maj=6.2km s-min=4.2km az=105.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c111; s123,c219; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.03 $M_{\theta\theta}$-0.11±.01; $M_{\phi\phi}$-0.67±.02; $M_{r\theta}$0.34±.02; $M_{\theta\phi}$-0.17±.01; $M_{\phi r}$0.79±.03; Best double couple: NP1:ϕ_s21.00000°,δ69.00000° ,λ93.00000°. NP2:ϕ_s191.00000°,δ21.00000°,λ81.00000°. Principal axes: T 1.1830,Plg65.0000°,Azm297.0000°; N -0.0720,Plg3.0000°,Azm200.0000° ; P -1.1110,Plg24.0000°,Azm108.0000° M_o1.14700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=138.0. Recorded [1 JMA] in Iwate, Miyagi and Yamagata.

(502) Arkansas

ISC	**III**	**10 10 58 36.4–.88**	**35.30N–.02**	**92.38W–.03**	**10**		**73**	**1-8**
ISCJB	III	10 10 58 36.9–.43	35.28N–.02	92.31W–.03	10			**¶16915395**

NEIC III 10 10 58 36.0 35.29N 92.34W 2 2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=12.3.
NEIC Event type fe. Felt at Greenbrier. After CERI.

(229) Off east coast of Honshu

ISC	**III**	**10 11 21 08.4–.41**	**38.58N–.04**	**143.22E–.03**	**26–2**	**5.2b,5.0s**	**972**	**1-145**
NIED	III	10 11 21 00	38.50N	143.40E	14	5.1W,5.0s		**¶16298807**
IDC	III	10 11 21 04.5–.50	38.52N	143.17E	0	4.9,4.9		
ISCJB	III	10 11 21 05.0–.73	38.56N–.02	143.14E–.02	11–4	5.2b,5.0s		
BJI	III	10 11 21 05.6	38.55N	142.91E	14	5.3s,5.2b		
JMA	III	10 11 21 05.0–.20	38.52N	143.31E	23	5.2,5.2b		
GCMT	III	10 11 21 09.1–.20	38.58N	143.25E	22–0	5.2W,5.2b		
NEIC	III	10 11 21 09.2–1.2	38.59N	143.04E	25–8	5.2b,5.2b		
MOS	III	10 11 21 10.0–.85	38.87N	142.98E	33	5.5b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ25.00000°,λ94.00000°. NP2:ϕ_s19.00000°,δ65.00000°,λ88.00000°. $M_0$5.04000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.3km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.1km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c86; s108,c174; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.55±.16 $M_{\theta\theta}$-0.57±.10; $M_{\phi\phi}$-3.98±.11; $M_{r\theta}$2.26±.17; $M_{\theta\phi}$-1.15±.06; $M_{\phi r}$4.39±.19; Best double couple: NP1:ϕ_s24.00000°,δ69.00000°,λ95.00000°. NP2:ϕ_s191.00000°,δ21.00000°,λ77.00000°. Principal axes: T 6.7840,Plg66.0000°,Azm303.0000°; N -0.2920,Plg5.0000°,Azm203.0000°; P -6.4940,Plg24.0000°,Azm111.0000° $M_0$6.63900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=139.0. Recorded [2 JMA] in Miyagi.
MOS Error ellipse: s-maj=5.7km s-min=3.4km az=105.8.

(229) Off east coast of Honshu

ISC	**III**	**10 11 29 37.7–.52**	**38.29N–.06**	**143.30E–.06**	**15**	**4.3b**	**76**	**2-145**
NIED	III	10 11 29 00	38.30N	143.30E	8	4.1W		**¶16451961**
IDC	III	10 11 29 35.6–.57	38.24N	143.17E	0	4.3,4.2		
ISCJB	III	10 11 29 36.1–.41	38.28N–.04	143.26E–.04	15	4.2b,4.2		
JMA	III	10 11 29 37.2–.10	38.30N	143.29E	34	4.3,4.2		
NEIC	III	10 11 29 38.7–2.7	38.25N	143.24E	21–19	4.7b,4.2		
MOS	III	10 11 29 38.6–1.3	38.38N	143.26E	33	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ45.00000°,λ83.00000°. NP2:ϕ_s12.00000°,δ45.00000°,λ97.00000°. $M_0$1.51000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=13.8km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=152.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=7.7km az=109.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=11.1km s-min=7.9km az=85.0.

(502) Arkansas

ISC	**III**	**10 11 52 57.0–.86**	**35.31N–.02**	**92.34W–.03**	**10**		**73**	**1-7**
NEIC	III	10 11 52 57.0	35.29N	92.34W	3	2.8		**¶16915396**
ISCJB	III	10 11 52 57.8–.42	35.29N–.02	92.33W–.03	10	2.8		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Benton, Clinton, Conway, Little Rock and Quitman. After CERI.
ISCJB Event type fe.

(70) Guatemala

ISC	**III**	**10 14 30 46.5–.57**	**14.41N–.08**	**90.2W–.10**	**10**	**4.6b**	**43**	**6-137**
ISCJB	III	10 14 30 44.9–.53	14.41N–.07	90.24W–.09	10	4.7b,3.9s		**¶602442213**
NEIC	III	10 14 30 48.9–.96	14.26N	90.37W	35	4.6b,3.9s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=7.8km az=149.6.
NEIC Event type fe. Error ellipse: s-maj=28.4km s-min=10.5km az=53.0. Felt [III] at Guatemala and Villa Nueva. Felt widely in southern Guatemala. Felt [II] at San Salvador, El Salvador.

(162) South Island

WEL	**III**	**10 15 00 39.8–.07**	**43.58S**	**172.72E**	**4–0**	**4.0L**		
NEIC	III	10 15 00 38.9	43.59S	172.76E	10	4.1L		**¶16304050**

WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.2km az=90.0. Felt from Canterbury to West Coast, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(229) Off east coast of Honshu

ISC	**III**	**10 16 54 47.8–.56**	**38.04N–.03**	**143.33E–.03**	**24–3**	**5.2b,4.9s**	**793**	**2-154**
NIED	III	10 16 54 00	38.10N	143.60E	8	5.1W,4.9s		**¶16298995**
JMA	III	10 16 54 42.2–.20	38.06N	143.60E	18–5	5.4,4.9s		
ISCJB	III	10 16 54 43.4–.76	38.04N–.02	143.31E–.02	3–4	5.1b,4.9s		
IDC	III	10 16 54 44.3–.36	38.04N	143.32E	0	4.8,4.8		
GCMT	III	10 16 54 45.0–.40	38.10N	143.29E	12	5.0W,4.8		
MOS	III	10 16 54 45.9–.91	38.14N	143.27E	18	5.3b,4.3s		
NEIC	III	10 16 54 45.0–.51	38.05N	143.30E	4–3	5.2b,4.3s		
BJI	III	10 16 54 46.3	38.12N	142.87E	11	5.3b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ44.00000°,λ39.00000°. NP2:ϕ_s259.00000°,δ64.00000°,λ127.00000°. $M_0$5.54000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=157.0.
IDC Error ellipse: s-maj=10.5km s-min=9.1km az=129.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c48; s36,c67; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.24±.20 $M_{\theta\theta}$-1.82±.19; $M_{\phi\phi}$-1.43±.18; $M_{r\theta}$-0.24±.54; $M_{\theta\phi}$-3.73±.14; $M_{\phi r}$0.89±.50; Best double couple: NP1:ϕ_s23.00000°,δ54.00000°,λ55.00000°. NP2:ϕ_s252.00000°,δ48.00000°,λ128.00000°. Principal axes: T 3.6790,Plg63.0000°,Azm232.0000°; N 1.6940,Plg27.0000°,Azm45.0000°; P -5.3830,Plg3.0000°,Azm136.0000° $M_0$4.53100×10^{16}
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=104.1.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=139.0. Recorded [2 JMA] in Miyagi.

(278) Bali Sea

ISC	**III**	**10 17 08 37.3–.19**	**6.86S–.02**	**116.73E–.02**	**519–1**	**6.2b**	**2684**	**2-173**
MOS	III	10 17 08 35.4–.89	6.81S	116.80E	506	6.3b,5.7s		**¶16298996**
BJI	III	10 17 08 36.4	6.85S	116.75E	520	6.2b,5.9b		
GCMT	III	10 17 08 36.9–.10	6.95S	116.71E	517–0	6.6W,5.9b		
NEIC	III	10 17 08 36.9–.28	6.87S	116.72E	511–3	6.5W,6.2b		
DJA	III	10 17 08 36.6–.10	7S–2.0	117E–1.0	519–2	7.0,6.4b		
ISCJB	III	10 17 08 36.4–.15	6.91S–.02	116.78E–.01	522–1	6.1b,6.4b		
NEIC	III	10 17 08 36.0–.00	7.10S	116.79E	510	6.1b,6.4b		
IDC	III	10 17 08 37.2–.27	6.82S	116.81E	511–2	6.5,5.6		

ISC Event type fe.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=113.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s147,c381; s140,c260; Duration: 4s8 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.92±.00 $M_{\theta\theta}$0.94±.01; $M_{\phi\phi}$-0.02±.01; $M_{r\theta}$-0.19±.01; $M_{\theta\phi}$-0.10±.01; $M_{\phi r}$-0.18±.01; Best double couple: NP1:ϕ_s84.00000°,δ51.00000°,λ-105.00000°. NP2:ϕ_s288.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 0.9700,Plg5.0000°,Azm185.0000°; N 0.0040,Plg12.0000°,Azm94.0000°; P -0.9740,Plg77.0000°,Azm298.0000° $M_0$0.97200×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.1km az=217.0. Felt [IV] at Denpasar and [III] at Kuta, Tabanan and Ubud, Bali. Also felt at Karangasem and Singaraja. Felt [III] at Mataram, Lombok. Felt at Blitar, Jember and Sidoarjo, Java. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ40.00000°,λ-90.00000°. NP2:ϕ_s85.00000°,δ50.00000°,λ-90.00000°. Principal axes: T Plg5.0000°,Azm175.0000°; N Plg0.0000°,Azm0.0000°; P Plg85.0000°,Azm355.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=34.7.
NEIC Event type se. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}-7.92 $M_{\theta\theta}$7.94 $M_{\phi\phi}$-0.02 $M_{r\theta}$-1.63 $M_{\theta\phi}$-0.43 $M_{\phi r}$-1.61 Best double couple: NP1:ϕ_s82.00000°,δ52.00000°,λ-104.00000°. NP2:ϕ_s284.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 8.1100,Plg5.0000°,Azm181.0000°; N 0.2900,Plg11.0000°,Azm90.0000°; P -8.4100,Plg77.0000°,Azm297.0000° $M_0$8.30000×10^{18}
IDC Error ellipse: s-maj=5.3km s-min=4.4km az=47.0.

(162) South Island

WEL	**III**	**10 17 11 23.7–.10**	**43.53S**	**172.81E**	**7–0**	**3.8L**		
NEIC	III	10 17 11 23.1	43.53S	172.84E	10	3.8L		**¶16304052**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch and Kaiapoi. After WEL.

(227) Eastern Honshu

ISC	**III**	**10 18 13 59.4–1.1**	**38.80N–.03**	**140.87E–.03**	**6–9**	**3.6b**	**26**	**0-62**
ISCJB	III	10 18 13 58.8–.51	38.80N–.03	140.87E–.04	13–4	3.5b		**¶16304053**
IDC	III	10 18 13 58.3–1.0	38.74N	140.81E	0	3.6,3.5		
JMA	III	10 18 13 59.3	38.80N	140.86E	5–1	3.4,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.7km az=42.5.
IDC Error ellipse: s-maj=29.8km s-min=13.7km az=118.0.
JMA Event type fe.

(250) Mindoro

ISC	**III**	**10 19 06 09.3–.32**	**13.69N–.03**	**120.62E–.04**	**110–2**	**5.0b**	**426**	**0-151**
BJI	III	10 19 06 08.5	13.66N	120.86E	129	5.0b,4.9b		**¶16299032**
NEIC	III	10 19 06 08.7–.18	13.74N	120.74E	103	5.0b,4.9b		
IDC	III	10 19 06 08.6–.47	13.70N	120.75E	105–4	4.9,4.6		
MAN	III	10 19 06 09	13.65N	120.36E	78	5.5b,5.1s		
MOS	III	10 19 06 09.2–.92	13.76N	120.78E	124	4.9b,5.1s		
ISCJB	III	10 19 06 09.2–.23	13.76N–.02	120.74E–.03	121–2	5.0b,5.1s		
BKK	III	10 19 06 12.2–1.5	14N–10	121E–12	122–16	5.0b,5.0b		
DJA	III	10 19 06 14.9–.60	14N–3.0	121E–3.0	158–6	5.3b,5.1b		

ISC Event type fe.
NEIC Event type fe. Felt at Calapan. Felt [II PIVS] at Batangas, Luzon. Also felt at Cuenca.
MAN Event type fe. INTENSITY II - BATANGAS CITY.
ISCJB Event type fe.

(460) Wyoming

ISC	**III**	**10 20 06 12.3–.72**	**43.58N–.03**	**105.18W–.03**	**0**		**55**	**1-20**
IDC	III	10 20 06 11.0–1.1	43.46N	105.29W	0	3.3,3.2		**¶17193654**
ISCJB	III	10 20 06 12.8–.29	43.57N–.03	105.21W–.03	0	3.3,3.2		
NEIC	III	10 20 06 12.4–.52	43.62N	105.02W	0	3.4L,3.2		

ISC Event type sm.
IDC Error ellipse: s-maj=19.2km s-min=9.3km az=152.0.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=2.6km az=148.1.
NEIC Event type fm. Error ellipse: s-maj=7.6km s-min=6.6km az=61.0. 71 km [44 miles] WSW of Newcastle. Suspected Mining explosion.

(227) Eastern Honshu

ISC	**III**	**10 21 41 22.6–.88**	**36.22N–.04**	**139.89E–.06**	**85–7**	**3.6b**	**29**	**0-56**
ISCJB	III	10 21 41 21.8–.55	36.21N–.03	139.90E–.07	92–4	3.4b		**¶600538743**
JMA	III	10 21 41 23.0–.10	36.23N	139.89E	81–1	3.2		
IDC	III	10 21 41 23.8–1.9	36.21N	139.83E	99–16	3.5,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.8km az=3.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.9km s-min=12.1km az=68.0.

(229) Off east coast of Honshu

ISC	**III**	**10 21 49 45.0–.54**	**38.51N–.05**	**143.20E–.05**	**21–4**	**4.6b,4.0s**	**254**	**1-117**
NIED	III	10 21 49 00	38.50N	143.30E	20	4.5W,4.0s		**¶17208862**
ISCJB	III	10 21 49 42.5–.97	38.48N–.04	143.22E–.05	15–6	4.5b,3.9s		
BJI	III	10 21 49 43.0	38.51N	143.22E	26	4.9b,4.7b		
JMA	III	10 21 49 43.8–.10	38.47N	143.25E	35	4.5,4.7b		
MOS	III	10 21 49 45.6–1.1	38.57N	143.15E	33	4.9b,4.7b		
IDC	III	10 21 49 45.8–.70	38.41N	143.17E	28–3	4.4,4.3		
NEIC	III	10 21 49 47.9–.38	38.49N	143.11E	41–2	4.7b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ27.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ63.00000°,λ93.00000°. $M_0$5.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.0km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=4.7km az=108.2.
IDC Error ellipse: s-maj=14.7km s-min=12.1km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=137.0. Recorded [1 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**10 22 44 24.2–.39**	**38.74N–.04**	**143.19E–.04**	**31–2**	**4.9b,4.7s**	**463**	**1-145**
NIED	III	10 22 44 00	38.60N	143.40E	14	4.8W,4.7s		**¶16303253**
JMA	III	10 22 44 21.6–.20	38.63N	143.25E	31	4.8,4.7s		
ISCJB	III	10 22 44 21.8–.80	38.72N–.03	143.13E–.03	21–5	4.8b,4.7s		
IDC	III	10 22 44 23.7–.48	38.64N	143.21E	29–2	4.5,4.4		
BJI	III	10 22 44 23.4	38.76N	143.05E	41	5.1b,4.9b		
NEIC	III	10 22 44 25.4–1.5	38.78N	143.05E	34–10	4.9b,4.9b		
MOS	III	10 22 44 25.1–.98	38.99N	143.04E	36	5.1b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ23.00000°,λ53.00000°. NP2:ϕ_s36.00000°,δ72.00000°,λ104.00000°. $M_0$2.05000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=147.6.
IDC Error ellipse: s-maj=12.6km s-min=9.9km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=140.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=106.8.

(162) South Island

WEL	**III**	**11 02 15 56.4–.10**	**43.56S**	**172.81E**	**10–0**	**3.5L**		
								¶16309747

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**III**	**11 04 23 43.8–.05**	**43.61S**	**172.58E**	**4–0**	**3.3L**		
								¶16304064

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**III**	**11 05 21 17.5–.07**	**43.58S**	**172.64E**	**5–0**	**3.3L**		
								¶16313896

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 05 46 23.2–.31**	**38.30N–.02**	**142.50E–.03**	**20–1**	**8.4s,7.1b**	**2497**	**1-163**
NIED	III	11 05 46 00	38.10N	142.90E	20	8.7W,7.1b		**¶16461282**
JMA	III	11 05 46 18.1–.20	38.10N	142.86E	24–3	9.0,7.1b		
IDC	III	11 05 46 19.8–.24	38.44N	142.52E	0	8.2,8.2s		
BJI	III	11 05 46 19.0	38.10N	142.50E	20	8.7s,8.6		
ISCJB	III	11 05 46 21.8–.06	38.29N–.01	142.71E–.01	20	8.4s,6.9b		
MOS	III	11 05 46 22.4–1.2	38.33N	142.51E	27	8.4s,7.3b		
GCMT	III	11 05 46 23.0–.20	37.52N	143.05E	20	9.1W,7.3b		
NEIC	III	11 05 46 23.0–.00	38.32N	142.97E	24	9.1W,7.3b		
NEIC	III	11 05 46 24.1–.10	38.30N	142.37E	29	9.0W,9.0W		
NEIC	III	11 05 47 47.2–.00	38.49N	142.60E	10	9.0W,9.0W		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ27.00000°,λ88.00000°. NP2:ϕ_s22.00000°,δ63.00000°,λ91.00000°. $M_0$1.07000×10^{22}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=8.0km s-min=6.9km az=100.0.
ISCJB Event type de. Error ellipse: s-maj=2.1km s-min=1.5km az=158.7.
MOS Event type fe. Error ellipse: s-maj=5.3km s-min=3.2km az=104.0. Mo 4.8E21 n.m, Mw 8.4(ARU) Mo 3.9E21 n.m, Mw 8.4(OBN) Mo 3.9E21 n.m, Mw 8.4(KIV) Mo 1.5E21 n.m, Mw 8.1(TLY) Fault plane solution: -wave C117, D42 . Felt (IV) at Yuzhno-Kuril'sk, Kuril'sk; (III) at Malokuril'skoye. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ71.00000°,λ105.00000°. NP2:ϕ_s154.00000°,δ24.00000°,λ53.00000°. Principal axes: T Plg61.0000°,Azm306.0000°; N Plg14.0000°,Azm189.0000°; P Plg25.0000°,Azm93.0000°
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves. nsta2 refers to mantle waves, cutoff=300s. Moment Tensor Solution. s100,c271;Duration: 70s0 Moment tensor: Scale 10^{22}Nm; M_{rr}1.73±.01 $M_{\theta\theta}$-0.28±.01; $M_{\phi\phi}$-1.45±.01; $M_{r\theta}$2.12±.07; $M_{\theta\phi}$-0.66±.00; $M_{\phi r}$4.55±.07; Best double couple: NP1:ϕ_s25.00000°,δ80.00000°,λ90.00000°. NP2:ϕ_s203.00000°,δ10.00000°,λ88.00000°. Principal axes: T 5.3050,Plg55.0000°,Azm295.0000°; N 0.0140,Plg0.0000°,Azm205.0000°; P -5.3190,Plg35.0000°,Azm115.0000° $M_0$5.31200×10^{22}
NEIC Event type se. Moment Tensor Solution. s256 Moment tensor: Scale 10^{22}Nm; M_{rr}1.82 $M_{\theta\theta}$-0.13 $M_{\phi\phi}$-1.69 $M_{r\theta}$1.34 $M_{\theta\phi}$-0.56 $M_{\phi r}$3.17 Best double couple: NP1:ϕ_s22.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s193.00000°,δ14.00000°,λ81.00000°. Principal axes: T 3.8800,Plg59.0000°,Azm295.0000°; N 0.0300,Plg2.0000°,Azm201.0000°

; P -3.9200,Plg30.0000°,Azm110.0000° $M_0$3.90000×10^{22}

NEIC Event type de. Error ellipse: s-maj=3.3km s-min=2.5km az=142.0. slightly in the Galapagos Islands, Ecuador by a tsunami with a recorded wave height of 208 cm at Santa Cruz. Several houses destroyed at Pisco, Peru. Several buildings destroyed at Dichato and several boats damaged at Puerto Viejo and on Isla Chiloe, Chile. Felt [VIII] at Fukushima, [VII] at Agui, Hiratsuka, Kiryu, Komae, Oyama, Sendai and Tsukuba and [VI] in much of eastern Honshu, including the Tokyo-Yokohama area, Japan. Felt from Hokkaido to Kyushu. Recorded [7 JMA] in Miyagi. Felt in Northern Mariana Islands, North Korea, South Korea, Taiwan, northeastern China and southeastern Russia as far as Kaohsiung, Beijing and Petropavlovsk-Kamchatskiy. Seiches observed at Leikanger, Norway. Water fluctuations observed in a well in Newfoundland, Canada. The tsunami had maximum runup heights of 29.6 m at Ofunato, 18.4 m at Onagawa and 9.4 m at Iwaki. Wave heights in centimeters [above sea level] were recorded at the following selected tide gauges: 250 at Arica, Chile; 282 at Hanasaki and 157 at Omaezaki, Japan; 163 at Manzanillo, Mexico; 156 on Midway Island; 97 on Chatham Island, New Zealand; 109 at Manus, Papua New Guinea; 173 at Callao, Peru; 250 at Kahului, Hawaii, USA; 202 at Port Orford, Oregon; 157 at Shemya, Alaska. The tsunami also caused some massive slabs of ice to calve from the Sulzberger Ice Shelf, Antarctica. At least 15,703 people killed, 4,647 missing, 5,314 injured, 130,927 displaced and at least 332,395 buildings, 2,126 roads, 56 bridges and 26 railways destroyed or damaged by the earthquake and tsunami along the entire east coast of Honshu from Chiba to Aomori. The majority of casualties and damage occurred in Iwate, Miyagi and Fukushima from a Pacific-wide tsunami with a maximum runup height of 37.88 m at Miyako. The total economic loss in Japan was estimated at 309 billion US dollars. Electricity, gas and water supplies, telecommunications and railway service disrupted and several reactors severely damaged at a nuclear power plant near Okuma. Several fires occurred in Chiba and Miyagi. At least 1,800 houses destroyed when a dam failed in Fukushima. Maximum acceleration of 2.93 g recorded at Tsukidate. Horizontal displacement and subsidence observed. Landslides occurred in Miyagi. Liquefaction observed at Chiba, Odaiba, Tokyo and Urayasu. The tsunami destroyed or severely damaged many coastal towns in the Kuji-Minamisanriku-Nami area. One person killed and several houses destroyed at Jayapura, Indonesia by a tsunami with a wave height of 2 m. One person killed south of Crescent City, California and several boats and docks destroyed or damaged at Crescent City by a tsunami with a recorded wave height of 247 cm. Several houses, boats and docks destroyed or damaged at Santa Cruz, California; Brookings, Oregon; Hale'iwa, Kailua Kona and Kealakekua, Hawaii. Some buildings damaged. Complex earthquake observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.00000×10^{22}

NEIC Event type se. Moment Tensor Solution. s151 Moment tensor: Scale 10^{22}Nm; M_{rr}2.03 $M_{\theta\theta}$-0.16 $M_{\phi\phi}$-1.87 $M_{r\theta}$2.06 $M_{\theta\phi}$-0.60 $M_{\phi r}$3.49 Best double couple: NP1:ϕ_s187.00000° ,δ14.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ95.00000°. Principal axes: T 4.5700,Plg58.0000°,Azm306.0000°; N -0.0500,Plg5.0000°,Azm208.0000° ; P -4.5200,Plg32.0000°,Azm115.0000° $M_0$4.50000×10^{22}

(230) Near south coast of eastern Honshu

JMA	**III**	**11 05 50 07.9–.30**	**34.38N**	**139.18E**	**10–2**	**4.7**		**¶602653821**

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**11 05 54 42.1**	**36.55N**	**137.69E**	**0**	**4.1**		**¶602653816**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 05 55 45.2–.36**	**37.30N–.06**	**143.41E–.07**	**35**	**6.3b**	**152**	**2-150**
IDC	III	11 05 55 39.6–.56	37.25N	143.56E	0	5.9,5.8		¶602653811
ISCJB	III	11 05 55 43.4–.22	37.28N–.04	143.31E–.05	33	6.2b,5.8		
MOS	III	11 05 55 43.1–1.4	37.25N	143.55E	33	6.6b,5.8		
NEIC	III	11 05 55 45.5–.25	37.36N	143.35E	35	6.4b,5.8		
JMA	III	11 05 55 53.4–.10	36.49N	141.77E	55	6.0,5.8		

ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=14.0km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=140.4.
MOS Error ellipse: s-maj=12.9km s-min=8.9km az=88.2.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.6km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(230) Near south coast of eastern Honshu

JMA	**III**	**11 05 55 54.1–.30**	**34.32N**	**139.11E**	**11–3**	**3.5**		**¶602653810**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 05 57 01.1–.10**	**37.40N**	**141.12E**	**22–1**	**5.2**		**¶602653809**

JMA Event type fe.

(227) Eastern Honshu

JMA	**III**	**11 05 57 17.7**	**36.25N**	**137.58E**	**2–1**	**4.7**		**¶602653806**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 01 16.0**	**36.76N**	**140.63E**	**6**	**4.5**		**¶603049298**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 04 00.1–1.1**	**36.33N–.04**	**141.85E–.07**	**67–9**	**5.7b**	**236**	**1-152**
IDC	III	11 06 03 51.2–.40	36.47N	141.90E	0	5.4,5.3		¶602653769
MOS	III	11 06 03 53.8–1.0	36.38N	141.84E	27	6.0b,5.3		
NEIC	III	11 06 03 55.3–2.0	36.47N	141.84E	23–14	5.9b,5.3		
JMA	III	11 06 03 58.8–.20	36.33N	141.96E	17–5	6.0,5.3		
ISCJB	III	11 06 04 00.5–.51	36.36N–.04	141.75E–.04	82–4	5.7b,5.3		

ISC Event type ke.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(227) Eastern Honshu

JMA	**III**	**11 06 04 48.2**	**36.26N**	**137.57E**	**2**	**2.6**		**¶603049299**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 05 01.2–.31**	**36.41N–.05**	**141.69E–.06**	**26**	**5.7b**	**121**	**1-152**
IDC	III	11 06 04 56.7–.58	36.38N	141.86E	0	5.6,5.5		¶602653767
ISCJB	III	11 06 04 59.2–.22	36.39N–.04	141.73E–.04	26	5.6b,5.5		
MOS	III	11 06 05 00.3–.98	36.35N	141.80E	33	5.9b,5.5		
NEIC	III	11 06 05 02.2–2.1	36.38N	141.78E	34–14	5.8b,5.5		
JMA	III	11 06 05 06.3–.10	37.52N	141.62E	22–2	5.9,5.5		

ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=15.0km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=5.0km az=147.7.
MOS Error ellipse: s-maj=15.6km s-min=9.3km az=85.5.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 06 10.0–.54**	**39.01N–.03**	**142.43E–.03**	**19–2**	**6.3b**	**1083**	**1-159**
IDC	III	11 06 06 06.7–.35	39.01N	142.37E	0	5.9,5.9		¶602653765
BJI	III	11 06 06 09.2	39.00N	142.30E	22	6.5s,6.4b		
ISCJB	III	11 06 06 09.9–.57	39.00N–.02	142.38E–.02	30–3	7.5s,6.2b		
JMA	III	11 06 06 10.7–.10	39.04N	142.40E	29–2	6.5,6.2b		
MOS	III	11 06 06 11.2–.90	39.02N	142.30E	40	6.5b,6.2b		
NEIC	III	11 06 06 13.2–.37	39.00N	142.29E	43–3	6.3b,6.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=157.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=95.6.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0. Recorded [5L JMA] in Aomori and Iwate.

(229) Off east coast of Honshu

ISC	**III**	**11 06 07 20.1–.61**	**36.39N–.04**	**141.97E–.04**	**29–4**	**6.3b**	**1132**	**1-165**
IDC	III	11 06 07 15.6–.30	36.46N	142.01E	0	6.0,5.9		¶16304069
JMA	III	11 06 07 16.1–.20	36.30N	142.23E	20–5	6.5,5.9		
BJI	III	11 06 07 18.6	36.30N	141.80E	30	6.5b,6.5s		
ISCJB	III	11 06 07 18.3–.95	36.40N–.02	141.97E–.02	28–6	7.1s,6.2b		
MOS	III	11 06 07 18.8–1.0	36.44N	141.92E	29	6.5b,6.2b		
NEIC	III	11 06 07 20.9–1.3	36.42N	141.88E	32–9	6.4b,6.2b		

ISC Event type se.
IDC Error ellipse: s-maj=9.9km s-min=8.7km az=109.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=162.9.
MOS Error ellipse: s-maj=6.6km s-min=4.6km az=103.8.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=131.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 11 15.5–.40**	**36.15N–.08**	**141.74E–.07**	**26**	**5.9b**	**148**	**1-152**
IDC	III	11 06 11 10.9–.73	36.08N	141.83E	0	7.0s,7.0		¶16404863
ISCJB	III	11 06 11 13.9–.24	36.13N–.05	141.64E–.04	26	5.8b,7.0		
MOS	III	11 06 11 13.9–1.1	36.08N	141.70E	29	6.2b,7.0		
NEIC	III	11 06 11 15.6–2.0	36.11N	141.70E	27–14	5.9b,7.0		
JMA	III	11 06 11 19.0	36.86N	140.62E	6–1	5.5,7.0		

ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=15.9km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.6km az=158.6.
MOS Error ellipse: s-maj=12.3km s-min=9.6km az=54.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=145.0.
JMA Event type fe.

(230) Near south coast of eastern Honshu

JMA	**III**	**11 06 13 10.2**	**35.22N**	**139.04E**	**3–1**	**3.6**		**¶602653757**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 15 37.6–.58**	**36.23N–.03**	**141.09E–.03**	**25–3**	**7.6s,6.7b**	**950**	**1-152**
NIED	III	11 06 15 00	36.10N	141.30E	35	7.8W,6.7b		¶602707261
BJI	III	11 06 15 32.7	36.20N	141.20E	20	7.7,7.7s		
IDC	III	11 06 15 32.3–.36	36.21N	141.17E	0	7.6,7.6s		
JMA	III	11 06 15 34.2–.10	36.12N	141.25E	43–2	7.6,7.6s		
ISCJB	III	11 06 15 37.0–.47	36.22N–.02	141.10E–.02	34–4	7.6s,6.6b		
MOS	III	11 06 15 38.8–1.7	36.27N	141.01E	47	7.0b,6.6b		
NEIC	III	11 06 15 40.3–1.1	36.28N	141.11E	43–9	7.9W,6.8b		
GCMT	III	11 06 15 45.0–.40	35.92N	141.38E	29–2	7.9W,6.8b		
NEIC	III	11 06 15 55.2–.00	35.94N	141.67E	30	7.9W,6.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ31.00000°,λ92.00000°. NP2:ϕ_s26.00000°,δ59.00000°,λ89.00000°. $M_0$5.66000×10^{20}
IDC Error ellipse: s-maj=11.5km s-min=9.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=155.1.
MOS Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=115.4. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.4km az=124.0. Felt [V] at Tokyo and [IV] at Misawa and Yokosuka. Also felt at Ayase, Fussa, Hamamatsu, Hamura, Nagoya-shi, Nisshin, Oizumi, Osaka, Sodegaura, Tachikawa, Tokorozawa and Yokohama. Recorded [6L JMA] in Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=75s. Moment Tensor Solution. s79,c216;Duration: 21s2 Moment tensor: Scale 10^{20}Nm; M_{rr}4.39±.31 $M_{\theta\theta}$-0.31±.15; $M_{\phi\phi}$-4.07±.20; $M_{r\theta}$3.17±.47; $M_{\theta\phi}$-1.97±.09; $M_{\phi r}$6.34±.68; Best double couple: NP1:ϕ_s26.00000°,δ73.00000°,λ92.00000°. NP2:ϕ_s199.00000°,δ17.00000°,λ84.00000°. Principal axes: T 8.2240,Plg62.0000° ,Azm299.0000°; N 0.5160,Plg2.0000°,Azm206.0000°; P -8.7340,Plg28.0000°,Azm115.0000° $M_0$8.47900×10^{20}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{20}Nm; M_{rr}4.67 $M_{\theta\theta}$-1.09 $M_{\phi\phi}$-3.57 $M_{r\theta}$0.94 $M_{\theta\phi}$-1.11 $M_{\phi r}$6.44 Best double couple: NP1:ϕ_s207.00000° ,δ17.00000°,λ105.00000°. NP2:ϕ_s11.00000°,δ73.00000°,λ85.00000°. Principal axes: T 8.2000,Plg61.0000°,Azm274.0000°; N -0.7800,Plg4.0000°,Azm12.0000° ; P -7.4200,Plg28.0000°,Azm104.0000° $M_0$7.80000×10^{20}

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 18 51.1–.56**	**36.07N–.05**	**142.14E–.07**	**23**	**6.5b**	**107**	**1-147**
IDC	III	11 06 18 46.9–.98	35.99N	142.30E	0	6.0,5.9		¶600538942
ISCJB	III	11 06 18 48.8–.37	35.99N–.04	142.23E–.05	23	6.3b,5.9		
NEIC	III	11 06 18 49.5–3.4	36.02N	142.27E	16–20	6.6b,5.9		
MOS	III	11 06 18 50.1–1.2	36.03N	142.23E	33	6.7b,5.9		
JMA	III	11 06 19 03.1–.40	36.29N	141.13E	33–4	5.7,5.9		

ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=22.8km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=24.9.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.0km az=108.0.
MOS Error ellipse: s-maj=17.0km s-min=9.1km az=39.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 20 02.4–.68**	**36.07N–.06**	**141.73E–.08**	**23**	**6.3b**	**62**	**1-88**
IDC	III	11 06 19 56.7–1.2	36.07N	142.24E	0	5.9,5.8		¶602653729
ISCJB	III	11 06 19 59.6–.41	36.03N–.04	141.90E–.05	23	6.2b,5.8		
JMA	III	11 06 20 01.9–.30	36.09N	141.77E	34	5.8,5.8		
NEIC	III	11 06 20 04.1–1.2	36.00N	142.07E	49–9	6.5b,5.8		

ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=16.1km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.4km az=135.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=5.8km az=79.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 20 44.1–.20**	**36.59N**	**141.72E**	**62**	**5.7**		**¶600538947**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 21 29.3–.40**	**38.36N–.05**	**142.88E–.05**	**23**	**6.2b**	**146**	**1-148**
IDC	III	11 06 21 25.0–.66	38.26N	142.97E	0	6.0,5.9		¶16404868
JMA	III	11 06 21 27.9–.40	38.28N	142.84E	6	6.2,5.9		
ISCJB	III	11 06 21 27.4–.22	38.20N–.04	142.90E–.03	23	6.1b,5.9		
NEIC	III	11 06 21 32.7–.83	38.29N	142.81E	52–8	6.2b,5.9		
MOS	III	11 06 21 32.0–.93	38.31N	142.83E	61	6.4b,5.9		

ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=15.3km az=142.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=0.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=138.0.
MOS Error ellipse: s-maj=11.7km s-min=8.5km az=81.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 22 45.5–.10**	**38.38N**	**141.81E**	**42–1**	**4.6**		**¶602653722**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 23 05.3–1.5**	**39.02N–.04**	**142.46E–.05**	**23–10**	**6.2b**	**399**	**1-155**
BJI	III	11 06 23 02.7	38.69N	142.36E	18	6.3b		¶16337997
JMA	III	11 06 23 05.8–.10	39.02N	142.41E	31–2	6.1		
ISCJB	III	11 06 23 06.7–.43	39.02N–.02	142.37E–.03	43–3	7.7s,6.1b		
MOS	III	11 06 23 08.0–.88	39.06N	142.41E	55	6.4b,6.1b		
NEIC	III	11 06 23 09.5–.50	39.03N	142.28E	56–4	6.2b,6.1b		
IDC	III	11 06 23 11.2–2.2	39.01N	142.37E	74–19	7.7s,7.7		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=137.9.
MOS Error ellipse: s-maj=7.7km s-min=5.5km az=77.9.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=140.0.
IDC Error ellipse: s-maj=13.7km s-min=10.6km az=130.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 25 50.7–.54**	**38.05N–.03**	**144.63E–.03**	**20–2**	**7.6s,7.0b**	**1885**	**3-159**
NIED	III	11 06 25 00	37.80N	144.90E	20	7.6W,7.0b		¶16304073
JMA	III	11 06 25 44.3–.60	37.91N	144.75E	11	7.5,7.0b		
IDC	III	11 06 25 46.6–.36	38.03N	144.75E	0	7.5s,7.5		
BJI	III	11 06 25 49.1	38.10N	144.40E	20	7.7s,7.6		
ISCJB	III	11 06 25 49.1–.06	38.08N–.01	144.64E–.01	21	7.5s,6.9b		
NEIC	III	11 06 25 50.3–1.3	38.06N	144.59E	19–8	7.7W,7.1b		
GCMT	III	11 06 25 50.0–.40	38.27N	144.63E	21–1	7.6W,7.1b		
MOS	III	11 06 25 51.0–.97	38.10N	144.63E	32	7.2b,7.1b		
NEIC	III	11 06 26 25.5–.00	39.42N	144.68E	26	7.2b,7.1b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ41.00000°,λ-92.00000°. NP2:ϕ_s194.00000°,δ49.00000°,λ-89.00000°. $M_0$2.46000×10^{20}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=11.1km s-min=9.6km az=103.0.

ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=161.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=129.0. Felt at Abiko, Akishima, Atsugi, Chiba, Chofu, Fussa, Kawasaki, Misawa, Mizuho, Nara, Narita, Osaka, Tokyo, Ueno, Yokosuka and Zama. Also felt at Sapporo, Hokkaido. Recorded [4 JMA] in Akita, Aomori, Fukushima, Ibaraki, Iwate, Miyagi, Saitama and Yamagata. Also recorded [4 JMA] in southeastern Hokkaido.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=60s. Moment Tensor Solution. s54,c128;Duration: 15s5
Moment tensor: Scale 10^{20}Nm; M_{rr}-3.03±.25 $M_{\theta\theta}$0.03±.12; $M_{\phi\phi}$3.00±.16; $M_{r\theta}$-0.41±.30; $M_{\theta\phi}$0.47±.06; $M_{\phi r}$-0.34±.24; Best double couple: NP1:ϕ_s15.00000°,δ49.00000°,λ-81.00000°. NP2:ϕ_s182.00000°,δ42.00000°,λ-100.00000°. Principal axes: T 3.0980,Plg4.0000° ,Azm99.0000°; N 0.0000,Plg7.0000°,Azm190.0000°; P -3.0970,Plg82.0000°,Azm340.0000° M_o3.09700×10^{20}
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=105.7. Felt (V) at Yuzhno-Kuril'sk.
Moment Tensor Solution.
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{20}Nm; M_{rr}-4.04 $M_{\theta\theta}$0.45 $M_{\phi\phi}$3.59 $M_{r\theta}$2.19 $M_{\theta\phi}$0.24 $M_{\phi r}$-1.19 Best double couple: NP1:ϕ_s340.00000° ,δ57.00000°,λ-115.00000°. NP2:ϕ_s202.00000°,δ40.00000°,λ-56.00000°. Principal axes: T 3.7800,Plg9.0000°,Azm88.0000°; N 1.3200,Plg21.0000°,Azm355.0000° ; P -5.1000,Plg67.0000°,Azm200.0000° M_o4.40000×10^{20}

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 25 47.0–.40**	**36.64N**	**141.08E**	**40–5**	**4.6**		**¶602653720**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 28 47.9–.10**	**35.91N**	**141.31E**	**25–2**	**5.2**		**¶602653719**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 29 15.4–.35**	**37.86N–.05**	**144.21E–.05**	**35**	**6.1b**	**175**	**2-152**
IDC	III	11 06 29 09.6–.59	37.83N	144.40E	0	6.3,6.1		¶602653717
ISCJB	III	11 06 29 13.6–.20	37.83N–.03	144.18E–.02	33	6.0b,6.1		
MOS	III	11 06 29 13.4–1.1	37.82N	144.25E	33	6.3b,6.1		
NEIC	III	11 06 29 16.0–.69	37.81N	144.23E	41–6	6.1b,6.1		
JMA	III	11 06 29 15.1–.30	37.93N	143.93E	15	6.9,6.1		

ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=15.2km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=178.8.
MOS Error ellipse: s-maj=10.0km s-min=8.1km az=78.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=122.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 30 12.5–.10**	**36.07N**	**141.07E**	**35–2**	**4.5**		**¶602653714**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 31 32.4–.30**	**37.38N**	**141.90E**	**16**	**5.7**		**¶602653713**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**11 06 32 30.8**	**36.71N**	**137.74E**	**0**	**3.6**		**¶602653712**

JMA Event type fe.

(227) Eastern Honshu

JMA	**III**	**11 06 33 00.5**	**36.25N**	**137.57E**	**3**	**2.8**		**¶602653708**

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 06 33 16.8–1.4**	**37.48N–.05**	**143.62E–.09**	**35**		**80**	**2-86**
JMA	III	11 06 33 15.7–.20	37.49N	143.53E	40	6.4		¶16403903
ISCJB	III	11 06 33 16.8–.60	37.55N–.03	143.44E–.05	33	5.9b		

ISC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(229) Off east coast of Honshu

JMA	**III**	**11 06 34 45.1–.20**	**37.07N**	**142.13E**	**39**	**5.5**		**¶602653701**

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 35 24.4–.39**	**35.97N–.05**	**141.07E–.06**	**31**	**5.7b**	**134**	**0-152**
IDC	III	11 06 35 18.9–.67	35.81N	141.17E	0	5.5,5.3		¶602653697
NEIC	III	11 06 35 20.9–2.3	35.81N	141.10E	10–14	5.8b,5.3		
ISCJB	III	11 06 35 22.5–.26	35.85N–.05	141.03E–.04	31	5.7b,5.3		
MOS	III	11 06 35 22.2–.99	35.79N	141.14E	33	6.1b,5.3		
JMA	III	11 06 35 24.5–.10	36.04N	141.04E	38–2	5.1,5.3		

ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=17.5km az=150.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=178.5.
MOS Error ellipse: s-maj=13.6km s-min=10.3km az=94.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 36 34.2–.10**	**38.43N**	**142.24E**	**16–2**	**5.1**		**¶603229649**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 37 36.4–.30**	**36.74N**	**141.08E**	**33–3**	**4.8**		**¶602653693**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 38 04.4–.10**	**38.36N**	**141.67E**	**48–1**	**4.2**		**¶17193682**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 38 08.8–.39**	**36.09N–.04**	**141.75E–.05**	**26**	**5.7b**	**127**	**1-152**
IDC	III	11 06 38 04.7–.58	36.13N	141.77E	0	5.4,5.3		¶600538982
ISCJB	III	11 06 38 06.8–.24	36.06N–.03	141.79E–.03	26	5.5b,5.3		
JMA	III	11 06 38 07.1–.20	36.18N	141.85E	24	5.6,5.3		
MOS	III	11 06 38 09.6–.86	36.12N	141.69E	48	6.0b,5.3		
NEIC	III	11 06 38 11.3–.79	36.09N	141.67E	47–7	5.8b,5.3		

ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.8km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=11.4km s-min=8.1km az=107.1.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.9km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 40 49.5–.52**	**39.34N–.05**	**142.17E–.05**	**50–4**	**5.6b**	**153**	**1-151**
IDC	III	11 06 40 42.3–.81	39.29N	142.11E	0	5.5,5.4		¶602653685
JMA	III	11 06 40 49.7–.10	39.33N	142.07E	48–1	5.9,5.4		
MOS	III	11 06 40 53.8–1.1	40.52N	141.37E	33	5.8b,5.4		
BJI	III	11 06 40 59.0	39.90N	139.80E	34	5.7b,5.4		
NEIC	III	11 06 41 01.4–.29	39.60N	141.58E	35	5.8b,5.4		

ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=15.7km az=160.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=13.1km s-min=7.9km az=106.5.
NEIC Event type fe. Error ellipse: s-maj=17.8km s-min=6.5km az=127.0. Recorded [4 JMA] in Iwate.

(230) Near south coast of eastern Honshu

JMA	**III**	**11 06 41 02.6–.10**	**34.28N**	**139.16E**	**10–1**	**3.1**		**¶603049305**

JMA Event type fe.

(229) Off east coast of Honshu

JMA	**III**	**11 06 42 17.5–.30**	**37.42N**	**142.60E**	**9**	**6.2**		**¶603049306**

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 44 08.1–.10**	**38.75N**	**142.22E**	**40–1**	**5.4**		**¶16404874**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 46 29.5–.40**	**37.97N–.07**	**143.27E–.07**	**18**	**5.7b**	**151**	**2-150**
JMA	III	11 06 46 09.3–.10	38.75N	142.23E	38–1	5.6		¶602653675
IDC	III	11 06 46 26.0–.60	37.95N	143.28E	0	5.4,5.3		
ISCJB	III	11 06 46 27.8–.27	37.94N–.05	143.22E–.05	18	5.6b,5.3		
MOS	III	11 06 46 29.7–.91	37.98N	143.22E	31	6.2b,5.3		
NEIC	III	11 06 46 31.2–1.7	37.96N	143.25E	31–12	5.9b,5.3		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=16.0km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.2km az=150.1.
MOS Error ellipse: s-maj=11.2km s-min=7.3km az=94.5.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=132.0. Recorded [4 JMA] in Iwate.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 48 11.3–.10**	**36.64N**	**141.00E**	**42–1**	**4.5**		**¶602653672**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 48 18.5–1.3**	**38.83N–.04**	**142.04E–.08**	**46–11**	**5.2b**	**136**	**1-150**
IDC	III	11 06 48 12.2–.83	38.82N	142.01E	0	5.1,5.0		¶602707263
MOS	III	11 06 48 14.0–.77	38.78N	141.94E	24	5.4b,5.0		
ISCJB	III	11 06 48 18.0–.56	38.79N–.03	142.00E–.05	57–4	5.2b,5.0		
JMA	III	11 06 48 18.5–.10	38.89N	142.10E	43–1	5.2,5.0		
NEIC	III	11 06 48 18.8–.62	38.81N	141.95E	47–6	5.3b,5.0		

ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=19.8km az=96.0.
MOS Error ellipse: s-maj=13.4km s-min=7.9km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.3km az=127.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 48 45.8–.24**	**37.98N–.04**	**142.74E–.03**	**14**	**6.1b**	**1036**	**1-154**
IDC	III	11 06 48 43.5–.41	37.94N	142.79E	0	6.8s,6.8		¶16476201
ISCJB	III	11 06 48 44.1–.10	37.96N–.02	142.77E–.02	14	6.3s,6.0b		
BJI	III	11 06 48 44.5	37.90N	142.80E	20	6.5s,6.3b		
NEIC	III	11 06 48 45.6–1.2	37.96N	142.72E	12–7	6.2b,6.3b		
MOS	III	11 06 48 47.7–.97	38.07N	142.71E	36	6.2b,6.3b		
JMA	III	11 06 49 01.7–.30	38.39N	142.27E	23	5.6,6.3b		

ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=160.3.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=1.9km az=130.0.
MOS Error ellipse: s-maj=5.9km s-min=4.2km az=95.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 49 50.6–1.4**	**40.17N–.04**	**142.57E–.04**	**18–8**	**5.8b**	**87**	**1-144**
JMA	III	11 06 49 50.2–.30	40.11N	142.62E	7–4	5.9		¶16404877
IDC	III	11 06 49 52.1–.72	40.83N	141.43E	0	6.4L,5.7		
NEIC	III	11 06 49 57.5–1.2	40.67N	141.61E	45–11	5.8b,5.7		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=15.5km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=14.4km s-min=9.2km az=130.0. Recorded [3 JMA] in Akita, Aomori, Fukushima, Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 52 26.3–.33**	**38.10N–.05**	**143.03E–.04**	**18**	**5.4b**	**173**	**1-151**
IDC	III	11 06 52 22.9–.57	38.01N	143.07E	0	5.3,5.1		¶16404878
ISCJB	III	11 06 52 24.6–.19	38.06N–.03	143.05E–.03	18	5.4b,5.1		
MOS	III	11 06 52 27.9–.84	38.03N	142.92E	45	5.7b,5.1		
NEIC	III	11 06 52 28.5–1.4	38.06N	143.02E	34–10	5.5b,5.1		
JMA	III	11 06 52 29.1–.40	38.40N	142.74E	0	5.9,5.1		

ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=14.5km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.5km az=7.7.
MOS Error ellipse: s-maj=11.0km s-min=6.8km az=90.1.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=120.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(230) Near south coast of eastern Honshu

JMA	**III**	**11 06 54 11.4**	**35.22N**	**139.02E**	**6–1**	**3.5**		**¶602654506**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 54 11.6–.38**	**37.04N–.05**	**141.49E–.05**	**33**	**5.4b**	**141**	**1-152**
NEIC	III	11 06 54 08.5–2.8	36.97N	141.49E	10–17	5.4b		¶602654502
ISCJB	III	11 06 54 10.4–.26	36.95N–.04	141.51E–.04	33	5.3b		
MOS	III	11 06 54 11.4–.77	37.18N	141.47E	35	5.5b		
JMA	III	11 06 54 13.4–.10	37.18N	141.44E	48–2	5.2		
IDC	III	11 06 54 16.0–3.1	36.97N	141.40E	72–29	5.1,5.0		

ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=2.5.
MOS Error ellipse: s-maj=17.2km s-min=9.8km az=73.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=18.7km az=115.0.

(230) Near south coast of eastern Honshu

JMA	**III**	**11 06 54 32.2**	**35.22N**	**139.03E**	**7–1**	**3.5**		**¶602654501**

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 06 55 31.3–.40**	**37.50N–.06**	**142.89E–.06**	**24**	**5.8b**	**159**	**2-148**
IDC	III	11 06 55 27.3–.72	37.55N	142.90E	0	6.9,6.9s		¶602654497
ISCJB	III	11 06 55 29.8–.22	37.52N–.04	142.82E–.04	24	6.9s,5.7b		
MOS	III	11 06 55 29.8–1.0	37.65N	142.90E	22	6.0b,5.7b		
NEIC	III	11 06 55 33.6–.65	37.56N	142.86E	40–6	5.9b,5.7b		
JMA	III	11 06 55 41.3–.20	36.58N	142.03E	79–5	5.4,5.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=19.7km s-min=15.0km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=151.4.
MOS Error ellipse: s-maj=8.9km s-min=8.0km az=77.7.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.2km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 06 55 56.4–.20**	**39.12N**	**142.37E**	**32–2**	**5.0**		**¶600539009**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 06 57 14.9–.52**	**35.80N–.03**	**140.97E–.03**	**33–1**	**6.0b**	**825**	**0-162**
BJI	III	11 06 57 13.0	35.61N	140.89E	39	6.2b,5.8b		¶602654495
JMA	III	11 06 57 13.2–.10	35.82N	141.18E	28–1	6.2,5.8b		
ISCJB	III	11 06 57 14.2–.34	35.75N–.02	140.88E–.02	39–2	7.1s,6.0b		
MOS	III	11 06 57 15.1–1.0	35.80N	140.90E	48	6.2b,6.0b		
IDC	III	11 06 57 16.4–1.5	35.74N	141.08E	52–13	5.6,5.4		
NEIC	III	11 06 57 16.5–.52	35.71N	140.88E	48–4	6.0b,5.4		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=38.8.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=109.3.
IDC Error ellipse: s-maj=10.6km s-min=7.2km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=127.0. Recorded [4 JMA] in Chiba.

(227) Eastern Honshu

JMA	**III**	**11 06 57 59.2–.10**	**39.00N**	**141.90E**	**48–1**	**4.1**		**¶602654493**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 06 58 59.4–2.1**	**37.37N–.04**	**144.76E–.04**	**30–14**	**6.2b**	**1150**	**3-158**
IDC	III	11 06 58 53.7–.40	37.23N	144.76E	0	6.7,6.7s		¶16304934
ISCJB	III	11 06 58 55.0–1.0	37.33N–.02	144.78E–.02	15–7	6.2b,6.7s		
BJI	III	11 06 58 58.3	37.40N	144.80E	30	6.0b,6.7s		
MOS	III	11 06 58 59.2–1.0	37.41N	144.73E	38	6.5b,6.7s		
NEIC	III	11 06 59 00.3–.66	37.36N	144.73E	36–6	6.3b,6.7s		

JMA III 11 06 59 01.3–.30 37.53N 144.43E 50 6.8,6.7s
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=11.0km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=171.1.
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=4.2km az=110.2. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=132.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 00 33.0–.10 36.63N 140.90E 46–1 4.0
¶602654491
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 01 24.3–.10 38.55N 142.05E 38–1 5.0
¶602654488
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 07 01 28.3–.10 36.20N 141.04E 44–2 3.8
¶602654485
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 02 06.8–.10 36.83N 141.06E 50–2 3.8
¶602654482
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 03 00.1–.33 38.00N–.05 142.82E–.05 18 5.5b 196 1-164
ISCJB III 11 07 02 59.2–.21 38.11N–.04 142.82E–.03 18 5.5b **¶602654475**
NEIC III 11 07 03 00.0–2.4 37.92N 142.80E 19–14 5.6b
JMA III 11 07 03 01.4–.20 38.15N 142.79E 23 5.8
IDC III 11 07 03 01.3–.50 37.86N 142.87E 32–3 5.4,5.3
MOS III 11 07 03 01.6–.76 38.17N 142.77E 34 5.8b,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.3km az=168.4.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.7km s-min=10.3km az=131.0.
MOS Error ellipse: s-maj=10.2km s-min=6.9km az=79.9.
(228) Near east coast of eastern Honshu
ISC III 11 07 04 15.0–.58 38.97N–.03 142.49E–.04 17–3 5.7b 721 1-155
IDC III 11 07 04 11.8–.47 38.92N 142.48E 0 5.4,5.3 **¶16401042**
MOS III 11 07 04 13.6–1.0 38.97N 142.44E 19 6.0b,5.3
ISCJB III 11 07 04 14.4–.68 38.93N–.02 142.48E–.02 22–4 5.6b,5.3
JMA III 11 07 04 15.7–.10 38.98N 142.43E 24–1 5.7,5.3
NEIC III 11 07 04 16.2–1.2 38.96N 142.40E 24–8 5.8b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=127.0.
MOS Error ellipse: s-maj=7.7km s-min=5.2km az=84.6.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.5km az=134.0. Recorded [4 JMA] in Iwate.
(228) Near east coast of eastern Honshu
JMA III 11 07 04 32.8–.30 36.62N 141.41E 52
¶603049307
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 05 20.8–.32 38.45N–.04 143.66E–.05 15 5.7b 312 2-154
IDC III 11 07 05 17.8–.58 38.47N 143.82E 0 5.5,5.4 **¶16313871**
ISCJB III 11 07 05 19.5–.15 38.42N–.03 143.57E–.03 15 5.6b,5.4
NEIC III 11 07 05 21.1–.61 38.44N 143.60E 15–3 5.7b,5.4
MOS III 11 07 05 23.0–.91 38.47N 143.54E 42 5.9b,5.4
JMA III 11 07 05 34.4–.10 39.02N 142.40E 27–1 5.7,5.4
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=14.9km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=156.7.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.6km az=144.0.
MOS Error ellipse: s-maj=7.6km s-min=5.5km az=105.8.
JMA Event type fe.
(238) Ryukyu Islands
JMA III 11 07 06 31.9–.30 29.20N 129.13E 8–1 3.6
¶602654473
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 08 23.1–.10 37.31N 141.15E 34–1 3.9
¶602654471
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 07 09 04.4–.10 36.28N 140.99E 41–2 3.4
¶603049358
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 09 11.1–.98 36.72N–.04 141.94E–.05 23–6 5.6b 283 1-152
IDC III 11 07 09 07.3–.55 36.70N 141.94E 0 5.1,5.0 **¶602654461**
JMA III 11 07 09 10.6–.20 36.69N 141.99E 37–4 5.5,5.0
MOS III 11 07 09 10.9–.80 36.70N 141.83E 34 5.9b,5.0
ISCJB III 11 07 09 10.3–1.1 36.66N–.02 141.92E–.03 30–7 5.5b,5.0
NEIC III 11 07 09 12.1–1.1 36.71N 141.87E 28–8 5.7b,5.0
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=12.8km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.9km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=179.0.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=126.0.
(229) Off east coast of Honshu
ISC III 11 07 09 56.0–.45 36.71N–.07 141.89E–.06 19 5.4b 139 2-152
IDC III 11 07 09 52.9–.72 36.74N 141.97E 0 5.2,5.1 **¶17193686**
ISCJB III 11 07 09 54.4–.26 36.70N–.05 141.86E–.05 19 5.4b,5.1
JMA III 11 07 09 54.1–.20 36.67N 142.10E 23 5.5,5.1
MOS III 11 07 09 55.7–1.0 36.78N 141.83E 29 5.8b,5.1
NEIC III 11 07 09 58.3–.19 36.72N 141.86E 35 5.6b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=16.0km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.6km az=151.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=8.9km az=72.1.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.3km az=153.0.
(229) Off east coast of Honshu
ISC III 11 07 11 00.1–.37 37.87N–.04 142.72E–.04 37–1 5.8b 1025 1-161
BJI III 11 07 10 52.5 37.60N 142.80E 10 6.3,6.3b **¶602707266**
IDC III 11 07 10 54.0–.39 37.84N 142.79E 0 5.6,5.5
JMA III 11 07 10 56.5–.20 37.82N 142.86E 27 6.2,5.5
ISCJB III 11 07 10 58.6–.48 37.85N–.03 142.75E–.02 39–4 6.5s,5.7b
MOS III 11 07 10 59.0–1.0 37.81N 142.62E 43 6.0b,5.7b
NEIC III 11 07 10 59.9–1.2 37.88N 142.68E 34–8 5.8b,5.7b
ISC Event type ke.
IDC Error ellipse: s-maj=11.1km s-min=10.0km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=161.8.
MOS Error ellipse: s-maj=6.0km s-min=4.4km az=106.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.7km az=137.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 12 50.9–.20 37.20N 141.19E 28–2 4.1
¶602654458
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 13 37.3–.20 38.86N 142.01E 44–2 3.8
¶603049309
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 13 45.2–.74 36.07N–.03 142.12E–.04 12–4 5.9b 623 1-161
ISCJB III 11 07 13 42.6–.11 36.06N–.02 142.30E–.02 10 5.8b **¶602653669**
IDC III 11 07 13 43.9–.35 35.99N 141.99E 0 5.4,5.4
BJI III 11 07 13 44.5 35.80N 142.04E 20 6.2b,6.0
JMA III 11 07 13 45.7–.20 35.95N 141.98E 50 5.8,6.0
MOS III 11 07 13 46.0–1.3 36.02N 142.24E 33 6.0b,6.0
NEIC III 11 07 13 47.6–.13 36.10N 142.36E 35 5.9b,6.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=164.4.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=111.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=138.0.
(229) Off east coast of Honshu
ISC III 11 07 14 58.6–.45 36.58N–.03 141.89E–.03 25–2 6.3b 1424 1-161
NIED III 11 07 14 00 36.60N 142.10E 23 6.5W **¶16318209**
IDC III 11 07 14 54.0–.34 36.51N 141.92E 0 7.0,6.9s
BJI III 11 07 14 55.0 36.53N 141.84E 19 6.3s,6.2
ISCJB III 11 07 14 57.2–.78 36.55N–.02 141.88E–.02 26–5 6.7s,6.3b
JMA III 11 07 14 57.0–.20 36.56N 142.04E 25 6.8,6.3b
NEIC III 11 07 14 58.8–1.1 36.59N 141.82E 25–7 6.3b,6.3b
MOS III 11 07 15 00.3–1.1 36.65N 141.79E 48 6.6b,6.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ21.00000°,λ113.00000°. NP2:ϕ_s15.00000°,δ71.00000°,λ81.00000°. M_w6.16000×10^{18}
IDC Error ellipse: s-maj=10.4km s-min=8.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=125.0. Recorded [4 JMA] in Fukushima and Tochigi.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=112.6.
(228) Near east coast of eastern Honshu
JMA III 11 07 16 55.6–.20 37.14N 141.42E 48–2 5.3
¶602653667
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 07 17 43.1–.29 37.02N–.04 142.46E–.04 9 5.8b 269 1-151
ISCJB III 11 07 17 41.6–.15 36.99N–.02 142.42E–.02 9 5.7b **¶602653663**
IDC III 11 07 17 41.1–.55 36.97N 142.56E 0 5.6,5.5
NEIC III 11 07 17 42.8–.72 37.01N 142.41E 6–4 5.8b,5.5
JMA III 11 07 17 42.7–.20 37.14N 142.59E 20 6.5,5.5
MOS III 11 07 17 43.2–1.0 37.05N 142.38E 21 6.0b,5.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=153.7.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=129.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=6.0km az=80.8.
(228) Near east coast of eastern Honshu
JMA III 11 07 19 54.9–.10 37.84N 141.85E 32–5 4.6
¶603049310
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(230) Near south coast of eastern Honshu
JMA III 11 07 20 17.2 34.27N 139.21E 0 3.9
¶602653662
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 07 21 36.1–.20 37.30N 141.55E 45–3 4.2
¶17193696
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 22 11.3–.10 37.67N 141.76E 42–4 4.5
¶17193699
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 23 22.6–.50 36.99N 141.41E 37–4 4.6
¶16476217
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=4.4km az=-1.0.
(229) Off east coast of Honshu
JMA III 11 07 25 10.7–.20 36.94N 142.29E 11–5 5.3
¶16476219
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 07 25 35.0–.47 38.01N–.03 144.60E–.03 28–3 6.0b 1533 3-158
IDC III 11 07 25 30.4–.30 37.94N 144.67E 0 5.7,5.6 **¶17193702**
MOS III 11 07 25 32.6–.94 37.95N 144.59E 22 6.2b,5.6
ISCJB III 11 07 25 33.9–.76 38.00N–.02 144.58E–.02 29–5 6.5s,6.0b
BJI III 11 07 25 34.1 37.90N 144.30E 20 6.6b,6.5
NEIC III 11 07 25 36.5–.45 37.93N 144.53E 40–4 6.1b,6.5
JMA III 11 07 25 36.1–.20 38.06N 144.50E 40 6.2,6.5
ISC Event type se.
IDC Error ellipse: s-maj=9.5km s-min=8.3km az=101.0.
MOS Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=100.7. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=166.9.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 28 11.7–.99 36.86N–.03 141.89E–.03 25–6 6.1b 1134 1-161
IDC III 11 07 28 07.8–.35 36.87N 141.97E 0 5.8,5.7 **¶602707272**
BJI III 11 07 28 08.9 36.70N 141.90E 20 6.4s,6.3
ISCJB III 11 07 28 10.2–.69 36.81N–.02 141.84E–.02 24–4 6.6s,6.0b
JMA III 11 07 28 11.3–.30 36.89N 141.87E 44–4 6.2,6.0b
MOS III 11 07 28 11.6–.89 36.90N 141.85E 33 6.2b,6.0b
NEIC III 11 07 28 12.4–1.1 36.82N 141.82E 28–7 6.1b,6.0b
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=8.9km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.6km az=162.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=102.4. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=130.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 28 52.2–.10 38.82N 142.15E 39–1 5.6
¶16304079
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 29 00.3–.60 39.00N–.03 142.45E–.04 34–2 6.3b 1055 1-159
IDC III 11 07 28 53.4–.41 38.75N 142.53E 0 6.7s,6.7 **¶16407474**
MOS III 11 07 28 58.8–1.3 39.00N 142.42E 33 6.5b,6.7
ISCJB III 11 07 28 59.2–.44 39.00N–.02 142.45E–.02 39–3 6.5s,6.2b
JMA III 11 07 28 59.8–.20 39.02N 142.31E 17–3 6.6,6.2b
NEIC III 11 07 29 01.8–.72 39.03N 142.35E 45–6 6.3b,6.2b
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=139.0.
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=92.2.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=41.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=127.0. Recorded [5U JMA] in Miyagi.
(228) Near east coast of eastern Honshu
ISC III 11 07 31 17.6–1.2 36.14N–.06 141.56E–.09 26 5.3b 18 1-80
IDC III 11 07 31 12.8–6.0 36.14N 141.76E 0 5.4,5.4b **¶17193706**
JMA III 11 07 31 18.8–.20 36.15N 141.51E 39 5.4,5.4b
ISC Event type ke.
IDC Error ellipse: s-maj=116.7km s-min=78.7km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 31 54.0–.20 39.64N 142.61E 22–2 5.5
¶602653641
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 32 48.0–.30 36.01N 141.78E 27 4.8
¶602653640

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 07 33 33.8–.50 36.26N–.06 142.72E–.08 35 5.5b 62 2-151
IDC III 11 07 33 28.6–1.0 36.36N 142.75E 0 5.2,5.1 **¶16407476**
JMA III 11 07 33 30.9–.30 36.29N 142.14E 19 5.2,5.1
MOS III 11 07 33 30.7–.80 36.15N 142.42E 21 5.9b,5.1
ISCJB III 11 07 33 32.4–.38 36.26N–.05 142.62E–.07 35 5.4b,5.1
NEIC III 11 07 33 33.7–.38 36.32N 142.71E 35 5.7b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=22.4km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=15.8km s-min=10.2km az=96.9.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=20.4.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=130.0.
(226) Near west coast of eastern Honshu
JMA III 11 07 33 40.9 37.95N 138.10E 15–1 4.3
¶602653637
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 07 34 11.7–.20 38.89N 142.55E 24–2 5.6
¶602653633
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 07 34 34.8 38.01N 139.42E 16–1 4.2
¶602653632
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 11 07 34 54.1–.49 37.92N–.05 142.73E–.06 21–4 5.3b 91 1-154
JMA III 11 07 34 51.7–.20 37.98N 142.75E 13–3 5.7 **¶16339080**
ISCJB III 11 07 34 52.6–1.6 37.91N–.04 142.78E–.05 22–11 5.3b
BJI III 11 07 34 52.1 37.70N 143.23E 26 5.8b
IDC III 11 07 34 55.4–.66 37.86N 142.88E 30–4 5.3,5.3
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.5km az=148.7.
IDC Error ellipse: s-maj=14.0km s-min=11.7km az=143.0.
(229) Off east coast of Honshu
ISC III 11 07 35 50.4–.34 37.00N–.05 142.26E–.04 9 5.7b 254 1-151
IDC III 11 07 35 47.6–.58 36.75N 142.44E 0 5.4,5.3 **¶16476229**
ISCJB III 11 07 35 48.7–.16 36.94N–.03 142.34E–.02 9 5.6b,5.3
JMA III 11 07 35 49.4–.30 37.06N 142.49E 28 6.0,5.3
NEIC III 11 07 35 52.2–1.4 36.94N 142.31E 22–9 5.7b,5.3
MOS III 11 07 35 52.2–.87 36.97N 142.26E 33 5.8b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.2km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=169.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=2.7km az=131.0.
MOS Error ellipse: s-maj=11.3km s-min=7.0km az=63.1.
(228) Near east coast of eastern Honshu
JMA III 11 07 36 35.5–.20 38.99N 142.29E 29–2 5.0
¶600539046
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 37 21.8–.10 38.59N 141.83E 42–2 4.5
¶602653631
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 37 53.2–1.0 39.30N–.05 142.39E–.09 29 4.8b 16 1-73
IDC III 11 07 37 48.4–1.2 39.27N 142.83E 0 5.0,4.9 **¶602653627**
ISCJB III 11 07 37 52.3–.79 39.32N–.05 142.44E–.08 29 4.8b,4.9
JMA III 11 07 37 56.8–.10 39.32N 142.15E 42–1 5.0,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=22.5km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.9km az=16.2.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 07 38 24.9–.33 39.27N–.03 142.94E–.03 20–2 5.8b 1132 1-154
BJI III 11 07 38 22.6 39.13N 143.03E 29 6.3s,6.1 **¶602653622**
ISCJB III 11 07 38 24.7–.92 39.12N–.02 142.91E–.02 30–6 6.7s,5.7b
MOS III 11 07 38 25.2–.92 39.27N 142.80E 30 5.9b,5.7b
IDC III 11 07 38 26.3–.60 39.20N 142.90E 31–4 5.3,5.3
JMA III 11 07 38 26.5–.20 39.25N 142.81E 16–2 5.8,5.3
NEIC III 11 07 38 27.6–.41 39.20N 142.79E 38–3 5.8b,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=174.4.
MOS Error ellipse: s-maj=5.7km s-min=3.9km az=93.6.
IDC Error ellipse: s-maj=11.8km s-min=9.8km az=127.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=136.0. Recorded [4 JMA] in Iwate.
(228) Near east coast of eastern Honshu
JMA III 11 07 39 27.4–.10 38.50N 142.07E 37–1 5.0
¶603049318
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 40 54.0–.55 38.37N–.05 142.20E–.06 20–4 5.2b 136 1-151
ISCJB III 11 07 40 52.8–1.1 38.33N–.03 142.24E–.04 24–7 5.1b **¶602653620**
JMA III 11 07 40 53.8–.10 38.45N 142.29E 28–2 5.3
NEIC III 11 07 40 53.4–2.1 38.35N 142.19E 16–13 5.3b
MOS III 11 07 40 54.0–.80 38.36N 142.12E 33 5.5b
IDC III 11 07 40 55.3–.85 38.36N 142.22E 30–5 4.8,4.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.8km az=39.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=121.0.
MOS Error ellipse: s-maj=14.1km s-min=8.4km az=87.7.
IDC Error ellipse: s-maj=18.7km s-min=15.3km az=80.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 41 33.1–.10 36.23N 140.97E 23–2 3.7
¶602653616
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 42 53.6–.63 36.37N–.04 141.96E–.05 23–4 5.6b 708 1-154
IDC III 11 07 42 50.4–.47 36.47N 142.06E 0 5.1,5.1 **¶16304938**
BJI III 11 07 42 50.8 36.36N 141.76E 11 6.2b,6.0s
ISCJB III 11 07 42 52.8–.12 36.37N–.03 141.94E–.02 27 5.4b,6.0s
MOS III 11 07 42 54.3–1.0 36.48N 142.03E 33 5.9b,6.0s
NEIC III 11 07 42 55.6–.15 36.40N 141.89E 35 5.7b,6.0s
JMA III 11 07 42 55.5–.10 36.08N 141.23E 37–2 5.4,6.0s
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=12.4km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=173.9.
MOS Error ellipse: s-maj=8.9km s-min=4.7km az=108.4.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 07 43 51.1–.78 37.16N–.09 142.38E–.06 9 5.4b 23 1-89
ISCJB III 11 07 43 49.3–.60 37.14N–.06 142.46E–.05 9 5.3b **¶603049320**
IDC III 11 07 43 49.5–.81 37.10N 142.38E 0 5.4,5.3
JMA III 11 07 43 51.0–.20 37.13N 142.54E 46 5.5,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.2km az=6.2.
IDC Error ellipse: s-maj=22.2km s-min=21.5km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 44 29.6–.43 36.21N–.03 141.86E–.04 25–3 5.7b 410 1-161
ISCJB III 11 07 44 25.1–1.3 36.17N–.02 141.87E–.02 6–8 5.6b **¶17193712**
NEIC III 11 07 44 28.0–1.6 36.20N 141.81E 14–10 5.8b
MOS III 11 07 44 29.7–.88 36.22N 141.78E 39 6.0b
IDC III 11 07 44 29.9–.45 36.22N 141.84E 26–2 5.3,5.2
JMA III 11 07 44 29.0–.20 36.30N 141.90E 60 5.6,5.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=172.6.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.3km az=124.0.
MOS Error ellipse: s-maj=7.6km s-min=5.7km az=100.4.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 45 12.6–.10 39.62N 142.64E 26–1 4.9
¶603049321
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 45 22.2–.92 36.01N–.06 141.12E–.08 31 5.2b 16 0-79
IDC III 11 07 45 16.8–5.7 35.92N 141.40E 0 5.4,5.3 **¶17193716**
ISCJB III 11 07 45 21.0–.76 36.06N–.06 141.18E–.07 31 5.2b,5.3
JMA III 11 07 45 22.2–.10 35.99N 141.07E 41–2 5.0,5.3
ISC Event type ke.
IDC Error ellipse: s-maj=160.7km s-min=28.7km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=7.5km az=36.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 47 27.5–.10 35.91N 141.57E 60 4.4
¶602653611
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 47 49.7–.55 38.73N–.08 143.83E–.08 23 5.0b 53 2-88
IDC III 11 07 47 46.2–.68 38.73N 143.84E 0 4.9,4.7 **¶602653607**
ISCJB III 11 07 47 47.9–.36 38.71N–.05 143.80E–.06 23 4.9b,4.7
NEIC III 11 07 47 49.4–2.5 38.73N 143.84E 21–18 5.2b,4.7
JMA III 11 07 47 52.6–.10 39.03N 142.33E 32–2 4.0,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=14.8km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.2km az=146.7.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.1km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 07 48 09.8–.93 36.97N–.05 142.25E–.04 4–5 5.0b 127 1-151
IDC III 11 07 48 08.8–.84 36.92N 142.25E 0 5.0,4.9 **¶16407480**
NEIC III 11 07 48 09.8–2.3 36.95N 142.16E 3–14 5.1b,4.9
ISCJB III 11 07 48 09.5–1.7 37.01N–.04 142.33E–.03 7–10 5.0b,4.9
JMA III 11 07 48 12.7–.30 37.11N 142.33E 27 5.1,4.9
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=17.8km az=6.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.1km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.6km az=175.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 49 48.7–.49 36.53N–.04 141.81E–.05 29–3 5.4b 304 1-151
JMA III 11 07 49 45.5–.20 36.56N 141.97E 34–5 5.5 **¶602653604**
ISCJB III 11 07 49 46.0–.83 36.55N–.02 141.83E–.03 21–5 5.4b
NEIC III 11 07 49 48.5–1.8 36.53N 141.76E 27–12 5.4b
IDC III 11 07 49 48.9–.50 36.51N 141.76E 31–3 4.9,4.8
MOS III 11 07 49 49.0–1.1 36.55N 141.71E 42 5.7b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.8km az=30.6.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=100.0.
IDC Error ellipse: s-maj=12.0km s-min=11.5km az=104.0.
MOS Error ellipse: s-maj=9.5km s-min=5.9km az=122.6.
(228) Near east coast of eastern Honshu
ISC III 11 07 51 51.0–.47 36.48N–.07 141.64E–.07 26 5.0b 57 1-159
IDC III 11 07 51 47.0–1.1 36.60N 141.73E 0 4.9,4.7 **¶602653602**
JMA III 11 07 51 48.0–.20 36.31N 141.94E 55 4.7,4.7
ISCJB III 11 07 51 49.1–.34 36.49N–.05 141.73E–.07 26 4.9b,4.7
NEIC III 11 07 51 53.4–1.1 36.55N 141.68E 44–10 5.0b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=20.9km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.5km az=136.4.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.0km az=130.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 52 22.5–.10 38.54N 142.09E 37–2 4.3
¶16407482
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 53 26.2–.44 36.76N–.07 141.98E–.07 19 4.9b 96 1-146
ISCJB III 11 07 53 24.3–.27 36.73N–.04 142.03E–.04 19 4.8b **¶16407483**
JMA III 11 07 53 25.4–.20 36.77N 141.95E 6–3 5.0
MOS III 11 07 53 26.7–1.0 36.79N 141.97E 35 5.1b
NEIC III 11 07 53 29.2–.72 36.73N 141.96E 42–7 5.0b
IDC III 11 07 53 29.9–2.8 36.73N 141.96E 49–26 4.6,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=148.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=12.0km s-min=10.0km az=86.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.6km az=123.0.
IDC Error ellipse: s-maj=20.2km s-min=17.5km az=100.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 53 59.4–1.1 38.94N–.04 142.36E–.05 19–4 4.9b 57 1-89
ISCJB III 11 07 53 59.7–1.2 38.90N–.03 142.42E–.05 33–8 4.8b **¶602653600**
JMA III 11 07 54 00.1–.20 39.00N 142.37E 27–2 4.9
IDC III 11 07 54 03.8–3.8 38.88N 142.39E 59–37 4.7,4.6
NEIC III 11 07 54 03.5–.72 38.84N 142.43E 56–7 4.9b,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.5km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=16.7km az=108.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=4.8km az=123.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 54 44.3–.36 37.73N–.04 141.71E–.04 45–3 5.6b 1067 1-160
BJI III 11 07 54 39.0 37.45N 141.85E 36 5.9s,5.7 **¶17193717**
JMA III 11 07 54 43.3–.10 37.67N 141.68E 35–3 5.5,5.7
ISCJB III 11 07 54 43.9–.35 37.73N–.02 141.58E–.02 52–3 6.5s,5.5b
MOS III 11 07 54 43.3–.87 37.90N 141.62E 41 5.8b,5.5b
IDC III 11 07 54 44.4–.50 37.73N 141.68E 47–4 5.2,5.1
NEIC III 11 07 54 45.4–.31 37.74N 141.57E 51–2 5.7b,5.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=154.4.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=97.0.
IDC Error ellipse: s-maj=10.2km s-min=9.5km az=142.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=143.0. Recorded [3 JMA] in Aomori, Fukushima, Iwate and Miyagi.
(229) Off east coast of Honshu
ISC III 11 07 56 13.2–.46 37.08N–.03 142.34E–.04 22–3 5.6b 421 1-150
JMA III 11 07 56 09.2–.30 37.05N 142.57E 11–5 6.2 **¶16304940**
BJI III 11 07 56 12.3 36.93N 142.15E 25 5.8s,5.7
ISCJB III 11 07 56 12.2–.98 37.09N–.02 142.31E–.03 25–6 6.0s,5.6b
MOS III 11 07 56 13.1–1.4 37.12N 142.22E 32 5.9b,5.6b
IDC III 11 07 56 14.0–3.5 37.08N 142.20E 33–26 5.3,5.3
NEIC III 11 07 56 15.4–.62 37.11N 142.23E 38–5 5.6b,5.3
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=37.5.
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=110.4.
IDC Error ellipse: s-maj=12.9km s-min=10.4km az=89.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.2km az=122.0.
(228) Near east coast of eastern Honshu
JMA III 11 07 58 17.6–.20 38.37N 141.74E 46–2 4.0
¶602653597
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu

JMA III 11 07 58 29.5–.10 39.41N 142.72E 32–1 4.6
¶602653594
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 07 59 53.9–.42 37.04N–.07 142.75E–.08 35 5.4b 130 2-154
NEIC III 11 07 59 49.0–2.5 37.01N 142.78E 1–16 5.7b **¶602653587**
MOS III 11 07 59 50.2–1.1 37.00N 142.70E 23 5.7b
ISCJB III 11 07 59 52.2–.25 36.97N–.05 142.64E–.05 35 5.4b
IDC III 11 07 59 53.8–.60 37.04N 142.87E 34–4 4.8,4.8
JMA III 11 08 00 03.6–.30 35.77N 141.04E 34–1 4.4,4.8
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=123.0.
MOS Error ellipse: s-maj=13.4km s-min=8.9km az=82.8.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.0km az=155.4.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 08 01 55.5–.63 36.73N–.04 142.52E–.04 14–3 5.8b 977 1-154
IDC III 11 08 01 50.5–.42 36.20N 142.83E 0 5.2,5.1 **¶16304085**
BJI III 11 08 01 52.6 36.39N 142.68E 28 5.8s,5.6
ISCJB III 11 08 01 54.7–.13 36.93N–.03 142.67E–.02 15 5.7b,5.6
MOS III 11 08 01 57.5–1.3 36.97N 142.92E 29 5.9b,5.6
JMA III 11 08 01 57.0–.20 36.35N 141.95E 17–3 5.5,5.6
NEIC III 11 08 01 57.0–1.8 36.94N 142.70E 19–10 5.9b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=174.1.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=98.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.1km az=148.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 03 56.3–.20 39.19N 142.99E 23–2 5.3
¶16461287
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 08 04 54.4–.60 37.50N–.03 142.18E–.03 17–3 5.8b 519 1-151
IDC III 11 08 04 49.8–.45 37.25N 142.32E 0 5.2,5.2 **¶600539077**
ISCJB III 11 08 04 52.9–.71 37.46N–.02 142.23E–.02 19–4 5.6b,5.2
JMA III 11 08 04 53.5–.30 37.26N 142.11E 19–3 5.9,5.2
MOS III 11 08 04 54.5–.80 37.53N 142.19E 29 6.0b,5.2
NEIC III 11 08 04 58.8–.47 37.59N 142.21E 49–4 5.7b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=151.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.8km az=102.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=142.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 07 59.8–.30 36.01N 141.05E 29–4 3.7
¶602653579
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 08 10 03.2–.41 37.92N–.06 142.63E–.05 14 4.9b 92 1-154
IDC III 11 08 10 00.9–.42 37.95N 142.70E 0 4.9,4.9 **¶16476243**
ISCJB III 11 08 10 01.5–.31 37.94N–.04 142.68E–.04 14 4.8b,4.9
JMA III 11 08 10 03.8–.30 37.88N 142.57E 37 5.5,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=12.3km s-min=10.5km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=176.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 08 12 06.7–.46 36.61N–.03 141.59E–.03 35–1 6.2b 1950 1-161
BJI III 11 08 12 01.5 36.60N 141.60E 10 6.6b,6.6s **¶17193724**
ISCJB III 11 08 12 04.3–.76 36.58N–.01 141.56E–.02 28–5 6.6s,6.2b
JMA III 11 08 12 06.4–.20 36.55N 141.39E 32–4 6.6,6.2b
MOS III 11 08 12 06.2–.92 36.71N 141.53E 40 6.4b,6.2b
NEIC III 11 08 12 07.3–.38 36.57N 141.49E 40–3 6.2b,6.2b
IDC III 11 08 12 07.2–1.9 36.60N 141.57E 39–16 5.8,5.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=162.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.3km s-min=3.5km az=110.9.
NEIC Event type fe. Error ellipse: s-maj=2.3km s-min=1.8km az=141.0. Recorded [4 JMA] in Fukushima and Tochigi.
IDC Error ellipse: s-maj=9.7km s-min=7.9km az=95.0.
(227) Eastern Honshu
JMA III 11 08 15 35.3 36.25N 137.56E 2 3.2
¶603049324
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 11 08 15 39.5–.76 37.09N–.04 144.63E–.04 25–5 6.1b 959 3-159
IDC III 11 08 15 35.0–.45 36.97N 144.69E 0 5.8,5.7 **¶602653457**
ISCJB III 11 08 15 37.7–.93 37.04N–.03 144.63E–.02 23–6 6.6s,6.0b
BJI III 11 08 15 39.0 36.90N 144.60E 30 6.6b,6.4s
MOS III 11 08 15 39.6–.85 37.18N 144.55E 31 6.3b,6.4s
NEIC III 11 08 15 41.9–.47 37.05N 144.54E 41–4 6.1b,6.4s
JMA III 11 08 15 43.1–.30 37.26N 144.26E 32 6.5,6.4s
ISC Event type ke.
IDC Error ellipse: s-maj=12.8km s-min=10.7km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=169.9.
MOS Error ellipse: s-maj=6.4km s-min=4.6km az=102.9.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=149.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(229) Off east coast of Honshu
JMA III 11 08 16 31.4–.20 37.25N 142.28E 15 5.7
¶16461290
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 18 24.4–.20 39.25N 142.92E 34–3 4.7
¶602653456
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 19 08.1–.20 38.86N 142.37E 28–2 4.9
¶602653453
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 08 19 16.8–.48 36.12N–.04 141.68E–.04 22–3 5.4b 505 1-152
IDC III 11 08 19 12.8–.39 36.11N 141.81E 0 5.3,5.3 **¶16476247**
ISCJB III 11 08 19 13.6–1.2 36.08N–.02 141.76E–.03 12–7 6.9s,5.4b
NEIC III 11 08 19 14.5–.57 36.12N 141.70E 8–3 5.4b,5.4b
JMA III 11 08 19 17.2–.20 36.16N 141.72E 36–4 6.8,5.4b
MOS III 11 08 19 17.1–.97 36.15N 141.71E 37 5.7b,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=9.3km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=143.3.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=92.0.
(228) Near east coast of eastern Honshu
ISC III 11 08 19 27.5–.21 36.19N–.03 141.66E–.04 26 7.1s,6.5b 1565 3-161
BJI III 11 08 19 20.1 35.90N 142.00E 20 6.9s,6.8 **¶602707274**
IDC III 11 08 19 23.3–.31 36.16N 141.80E 0 6.9,6.9s
NEIC III 11 08 19 24.4–1.7 36.17N 141.56E 7–10 6.5b,6.9s
ISCJB III 11 08 19 25.9–.07 36.13N–.02 141.68E–.02 26 7.0s,6.4b
MOS III 11 08 19 26.0–1.0 36.15N 141.66E 26 7.1s,6.7b
ISC Event type ke.
IDC Error ellipse: s-maj=10.1km s-min=8.2km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=129.0. Felt at Yokosuka. Recorded [4 JMA] in Chiba, Fukushima, Ibaraki, Saitama and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=158.5.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=109.3.
(228) Near east coast of eastern Honshu
JMA III 11 08 23 12.6–.30 38.76N 142.72E 19–5 4.9
¶602653452
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 27 17.2–.20 37.46N 141.46E 43–3 5.1
¶603049327
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 08 27 48.9–.67 38.02N–.04 142.74E–.04 23–4 6.0b 870 1-161
IDC III 11 08 27 44.4–.34 37.91N 142.84E 0 6.4s,6.4 **¶602653450**
ISCJB III 11 08 27 47.3–1.0 37.98N–.02 142.72E–.02 21–7 6.8s,6.0b
JMA III 11 08 27 48.3–.30 38.03N 142.79E 30 6.2,6.0b
MOS III 11 08 27 48.7–.98 38.04N 142.70E 34 6.2b,6.0b
NEIC III 11 08 27 51.6–.65 38.02N 142.66E 43–5 6.0b,6.0b
ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=143.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=78.1.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=130.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 28 28.4–.10 36.78N 141.03E 46–2 4.7
¶600539089
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 08 31 07.7–.60 37.45N–.03 141.31E–.04 29–4 6.0b 1128 0-155
IDC III 11 08 31 03.2–.36 37.48N 141.31E 0 5.6,5.6 **¶16304942**
BJI III 11 08 31 05.8 37.40N 141.10E 20 6.4s,6.2
MOS III 11 08 31 05.9–.98 37.54N 141.21E 26 6.2b,6.2
JMA III 11 08 31 07.8–.10 37.47N 141.38E 31–1 5.9,6.2
ISCJB III 11 08 31 08.0–.35 37.46N–.02 141.17E–.02 41–3 6.4s,5.9b
NEIC III 11 08 31 09.3–.46 37.47N 141.18E 37–4 6.0b,5.9b
ISC Event type se.
IDC Error ellipse: s-maj=11.1km s-min=8.8km az=94.0.
MOS Error ellipse: s-maj=6.0km s-min=3.8km az=104.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=160.6.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=134.0. Recorded [4 JMA] in Fukushima, Miyagi, Tochigi and Yamagata.
(228) Near east coast of eastern Honshu
ISC III 11 08 32 57.2–1.5 39.14N–.04 143.02E–.04 4–9 6.0b 341 1-159
IDC III 11 08 32 56.2–.47 39.10N 143.14E 0 5.5,5.4 **¶16403906**
ISCJB III 11 08 32 58.3–1.0 39.15N–.03 143.03E–.03 20–7 5.8b,5.4
MOS III 11 08 32 59.4–.91 39.19N 142.98E 30 6.2b,5.4
JMA III 11 08 32 59.4–.20 39.20N 142.96E 12–3 6.0,5.4
NEIC III 11 08 33 00.8–1.3 39.14N 142.97E 28–9 6.0b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=11.3km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=175.0.
MOS Error ellipse: s-maj=7.3km s-min=5.4km az=83.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=144.0.
(228) Near east coast of eastern Honshu
JMA III 11 08 33 42.3–.10 37.44N 141.36E 31–1 4.9
¶602653448
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 08 35 21.2–.71 36.02N–.05 141.06E–.06 16–4 5.5b 341 0-155
ISCJB III 11 08 35 17.9–1.4 35.95N–.03 140.99E–.04 5–8 5.5b **¶16409229**
IDC III 11 08 35 18.5–.44 36.01N 141.08E 0 5.4,5.3b
MOS III 11 08 35 20.5–.91 36.03N 140.97E 21 5.7b,5.3b
JMA III 11 08 35 22.2–.10 36.07N 141.13E 37–2 5.2,5.3b
NEIC III 11 08 35 22.1–1.5 36.03N 140.98E 20–9 5.6b,5.3b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.9km az=142.8.
IDC Error ellipse: s-maj=13.3km s-min=12.3km az=66.0.
MOS Error ellipse: s-maj=8.5km s-min=5.9km az=80.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=134.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
(228) Near east coast of eastern Honshu
JMA III 11 08 36 29.0–.20 39.57N 142.73E 23–2 5.3
¶602653445
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 08 38 01.4–3.4 37.72N–.04 143.77E–.05 10–21 5.3b 269 2-153
IDC III 11 08 37 59.5–.43 37.67N 143.93E 0 5.1,5.0 **¶16409230**
ISCJB III 11 08 38 00.0–.16 37.73N–.03 143.72E–.02 10 5.2b,5.0
NEIC III 11 08 38 01.5–1.7 37.70N 143.83E 9–10 5.4b,5.0
JMA III 11 08 38 03.1–.40 37.80N 143.63E 30 5.9,5.0
MOS III 11 08 38 03.1–1.1 37.72N 143.78E 33 5.5b,5.0
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.0km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=163.8.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=131.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=6.2km az=98.8.
(227) Eastern Honshu
JMA III 11 08 40 45.7 36.76N 139.47E 4–2 4.2
¶16304943
JMA Event type fe.
(227) Eastern Honshu
ISC III 11 08 40 54.8–.52 37.39N–.03 141.16E–.04 32–3 5.9b 1172 0-157
IDC III 11 08 40 49.8–.32 37.44N 141.11E 0 6.3,6.3s **¶600539099**
BJI III 11 08 40 52.8 37.37N 141.00E 25 6.2b,6.0
MOS III 11 08 40 53.4–.86 37.48N 141.04E 30 6.1b,6.0
ISCJB III 11 08 40 54.7–.30 37.42N–.02 141.06E–.02 42–2 6.3s,5.8b
JMA III 11 08 40 54.5–.10 37.42N 141.27E 30–1 6.0,5.8b
NEIC III 11 08 40 56.1–.46 37.45N 140.98E 40–4 5.9b,5.8b
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=8.6km az=99.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=98.7.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=149.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=128.0. Recorded [5U JMA] in Fukushima.
(229) Off east coast of Honshu
ISC III 11 08 43 57.6–.35 36.10N–.05 141.20E–.05 26 5.5b 209 0-150
IDC III 11 08 43 49.5–.44 36.55N 141.59E 0 5.0,4.9 **¶602653443**
JMA III 11 08 43 53.3–.30 36.27N 142.09E 0 6.0,4.9
ISCJB III 11 08 43 53.7–.18 36.03N–.04 141.05E–.04 10 5.4b,4.9
MOS III 11 08 43 58.4–1.8 36.06N 140.83E 47 5.8b,4.9
NEIC III 11 08 44 00.1–1.3 36.12N 140.97E 47–11 5.6b,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=10.8km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=148.1.
MOS Error ellipse: s-maj=9.6km s-min=7.9km az=127.6.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.1km az=121.0.
(229) Off east coast of Honshu
ISC III 11 08 46 44.9–.97 37.39N–.03 142.53E–.04 23–6 5.6b 900 1-154
IDC III 11 08 46 41.3–.39 37.37N 142.50E 0 5.5,5.4 **¶602653441**
BJI III 11 08 46 43.9 37.35N 142.44E 34 5.9b,5.9s
ISCJB III 11 08 46 44.3–.83 37.38N–.02 142.49E–.02 28–5 5.9s,5.5b
JMA III 11 08 46 44.1–.20 37.45N 142.39E 15 5.9,5.5b
MOS III 11 08 46 45.1–.96 37.44N 142.40E 32 5.9b,5.5b
NEIC III 11 08 46 45.9–.99 37.42N 142.45E 26–7 5.6b,5.5b
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=167.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=6.7km s-min=4.0km az=116.1.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=123.0. Recorded [3 JMA] in Ibaraki, Iwate and Miyagi.

(228) Near east coast of eastern Honshu

JMA III 11 08 47 55.9–.10 38.83N 142.07E 41–1 5.1 ¶16304094

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 08 48 22.6–2.0 36.62N–.06 142.01E–.05 16–12 5.2b 95 1-152
IDC III 11 08 48 19.3–.77 36.43N 142.18E 0 6.3,6.3s ¶16409232
ISCJB III 11 08 48 21.2–.24 36.67N–.03 142.05E–.03 10 5.1b,6.3s
JMA III 11 08 48 22.5–.20 36.73N 142.11E 28 5.3,6.3s
NEIC III 11 08 48 26.6–.82 36.51N 141.91E 48–8 5.2b,6.3s
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=17.7km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.4km az=130.0.

(228) Near east coast of eastern Honshu

ISC III 11 08 51 05.3–.57 37.56N–.10 143.64E–.09 35 4.9b 44 2-148
IDC III 11 08 50 60.0–.76 37.50N 143.73E 0 4.7,4.5 ¶16409233
ISCJB III 11 08 51 03.1–.39 37.58N–.06 143.57E–.08 33 4.9b,4.5
NEIC III 11 08 51 05.4–.32 37.56N 143.64E 35 5.3b,4.5
JMA III 11 08 51 11.6–.10 39.14N 142.40E 30–2 4.7,4.5
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=18.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.4km az=140.2.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 08 52 25.7–.35 36.75N–.04 141.97E–.05 36–2 5.4b 956 1-154
IDC III 11 08 52 20.0–.40 36.73N 142.04E 0 5.1,5.1 ¶16409257
JMA III 11 08 52 20.6–.30 36.77N 141.95E 0–3 5.6,5.1
ISCJB III 11 08 52 21.7–.74 36.74N–.02 141.98E–.02 17–5 5.6s,5.3b
BJI III 11 08 52 22.1 36.68N 141.80E 23 5.7s,5.6b
NEIC III 11 08 52 23.4–1.6 36.77N 141.92E 17–10 5.5b,5.6b
MOS III 11 08 52 24.9–.97 36.93N 141.89E 33 5.6b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=10.6km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=172.5.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=138.0.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=109.2.

(228) Near east coast of eastern Honshu

ISC III 11 08 53 59.9–.53 36.62N–.07 141.73E–.07 26 4.7b 53 1-148
IDC III 11 08 53 55.4–.70 36.58N 141.86E 0 4.8,4.6 ¶16409234
ISCJB III 11 08 53 57.9–.35 36.57N–.05 141.75E–.06 26 4.7b,4.6
NEIC III 11 08 54 01.4–1.2 36.56N 141.72E 39–11 4.8b,4.6
JMA III 11 08 54 07.5–.10 37.66N 141.68E 40–4 5.0,4.6
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=18.0km az=17.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.6km az=38.3.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.2km az=70.0. Recorded [3 JMA] in Fukushima and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 08 56 06.7–.49 38.82N–.06 142.39E–.05 27 4.8b 80 1-155
IDC III 11 08 56 02.4–.67 38.83N 142.36E 0 4.6,4.5 ¶602653430
ISCJB III 11 08 56 04.7–.26 38.73N–.04 142.47E–.04 27 4.8b,4.5
JMA III 11 08 56 07.1–.20 38.93N 142.39E 23–2 4.8,4.5
NEIC III 11 08 56 07.6–2.5 38.80N 142.29E 35–18 4.9b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=16.4km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.7km az=161.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.1km az=125.0.

(228) Near east coast of eastern Honshu

JMA III 11 08 56 22.0–.10 37.40N 141.36E 28–1 4.2 ¶16409236

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 08 56 40.8–.10 35.98N 140.99E 32–2 4.1 ¶603049329

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA III 11 08 58 07.7 36.81N 139.46E 3–1 4.1 ¶602653426

JMA Event type fe.

(613) Hawaiian Islands

ISC III 11 08 58 25.3–1.7 19.54N–.08 155.1W–.10 14 5.0b 21 0-104
BJI III 11 08 58 24.0 19.30N 155.00W 15 5.6b ¶16304096
NEIC III 11 08 58 25.7 19.34N 154.99W 9 4.6L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hakalau, Mountain View, Pa'auilo, Papa'ikou and Pepeekeo; [III] at Captain Cook, Hawaii National Park, Hilo, Kea'au, Kurtistown, 'O'okala, Pahoa and Volcano; [II] at Honoka'a, Honomu, Kailua Kona, Ninole, Waikoloa and Waimea. Felt throughout the Island of Hawai'i and in parts of Maui, Moloka'i and O'ahu. After HVO.

(228) Near east coast of eastern Honshu

JMA III 11 09 00 00.6 36.80N 140.98E 54–1 3.6 ¶602653422

JMA Event type fe.

(229) Off east coast of Honshu

JMA III 11 09 00 31.2–.10 38.13N 143.52E 0 5.5 ¶602653417

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 09 01 00.4–.59 37.37N–.07 142.43E–.06 21 4.6b 41 1-89
IDC III 11 09 00 56.8–.71 37.31N 142.51E 0 4.6,4.5 ¶16461291
JMA III 11 09 00 58.4–.20 37.39N 142.48E 14 5.5,4.5
ISCJB III 11 09 00 58.4–.44 37.33N–.05 142.53E–.04 21 4.5b,4.5
ISC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 02 14.5–.10 38.55N 142.02E 27–2 3.9 ¶602653413

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 02 34.4–.10 37.11N 141.26E 43–1 3.6 ¶602653410

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 03 31.8 35.97N 141.03E 30–1 3.7 ¶602653402

JMA Event type fe.

(229) Off east coast of Honshu

ISC III 11 09 04 09.3–.29 37.46N–.04 142.68E–.05 21 5.4b 511 1-160
IDC III 11 09 04 05.6–.35 37.40N 142.75E 0 5.1,5.1 ¶602653396
BJI III 11 09 04 06.8 37.49N 142.58E 18 5.7s,5.6
NEIC III 11 09 04 06.9–1.8 37.38N 142.72E 9–10 5.4b,5.6
ISCJB III 11 09 04 07.5–.14 37.39N–.03 142.68E–.03 21 5.8s,5.3b
MOS III 11 09 04 08.6–1.2 37.47N 142.63E 29 5.7b,5.3b
JMA III 11 09 04 13.5 36.55N 140.96E 17–1 5.3,5.3b
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=140.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=158.1.
MOS Error ellipse: s-maj=7.4km s-min=4.4km az=107.1.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 06 06.3–.20 36.78N 141.31E 17–4 4.5 ¶603049332

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 06 54.2–.10 36.45N 141.08E 36–1 3.7 ¶602653391

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 08 35.9–.10 36.07N 141.10E 42–1 3.7 ¶602653388

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 08 59.4–.10 36.32N 141.16E 48–2 3.6 ¶603049333

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 09 47.7–.10 37.20N 141.38E 48–1 5.7 ¶602653382

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 11 03.3–.20 38.84N 142.09E 41–3 4.6 ¶16304102

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 09 11 31.0–.60 37.52N–.08 142.85E–.07 24 4.7b 39 2-145
IDC III 11 09 11 27.0–.69 37.52N 142.88E 0 4.8,4.6 ¶602653371
ISCJB III 11 09 11 29.0–.40 37.49N–.05 142.85E–.05 24 4.7b,4.6
NEIC III 11 09 11 33.1–1.2 37.49N 142.86E 42–12 4.7b,4.6
JMA III 11 09 11 51.4–.10 37.92N 141.88E 35–4 4.7,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=17.8km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=178.9.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.3km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 15 14.3–.10 38.57N 141.94E 37–3 4.1 ¶602653345

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 15 17.1–.10 37.30N 141.16E 35–1 4.8 ¶603049334

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 16 03.6–.20 36.68N 141.29E 53–3 3.8 ¶602653341

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC III 11 09 16 23.7–1.0 37.93N–.03 140.31E–.03 9–6 5.1b 368 0-156
MOS III 11 09 16 24.2–.99 37.96N 140.25E 21 5.4b ¶602653337
ISCJB III 11 09 16 24.0–.35 37.89N–.02 140.28E–.02 20–2 5.0b
JMA III 11 09 16 24.1 37.90N 140.34E 7–2 5.1
BJI III 11 09 16 24.0 37.46N 140.34E 28 5.1b
IDC III 11 09 16 28.2–2.0 37.92N 140.26E 42–18 4.9,4.8
NEIC III 11 09 16 29.9–.38 37.97N 140.12E 54–3 5.0b,4.8
ISC Event type ke.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=88.1.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.8km az=155.3.
JMA Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.2km az=112.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=129.0. Recorded [3 JMA] in Fukushima, Niigata and Yamagata.

(228) Near east coast of eastern Honshu

JMA III 11 09 18 17.1 36.64N 141.05E 40–1 3.7 ¶602653330

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 09 18 44.4–.41 36.10N–.05 142.06E–.05 23 4.8b 78 1-147
IDC III 11 09 18 40.5–.46 36.06N 142.20E 0 4.8,4.7 ¶602653326
ISCJB III 11 09 18 42.5–.28 36.08N–.04 142.11E–.04 23 4.7b,4.7
JMA III 11 09 18 45.9–.10 36.14N 141.93E 59–4 4.6,4.7
NEIC III 11 09 18 45.9–.23 36.07N 142.11E 35 4.9b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.3km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=145.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

JMA III 11 09 19 22.7–.10 38.34N 142.07E 35–2 4.0 ¶603049336

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 19 52.9 36.56N 140.95E 15–1 5.0 ¶602653325

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 09 21 30.8–.10 36.14N 140.98E 45–2 3.4 ¶602653317

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 09 24 27.7–.42 36.17N–.05 141.51E–.05 26 4.5b 78 1-152
IDC III 11 09 24 24.0–.49 36.21N 141.46E 0 4.5,4.4 ¶17193735
ISCJB III 11 09 24 25.8–.32 36.18N–.04 141.61E–.04 26 4.5b,4.4
JMA III 11 09 24 26.6–.20 36.24N 141.64E 40–5 4.4,4.4
NEIC III 11 09 24 29.2–1.0 36.20N 141.45E 36–9 4.9b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=11.6km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=139.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.1km az=108.0.

(228) Near east coast of eastern Honshu

ISC III 11 09 25 49.8–.38 36.08N–.04 141.88E–.05 23 4.6b 84 1-152
ISCJB III 11 09 25 48.2–.27 36.11N–.03 141.92E–.03 23 4.5b ¶16461297
NEIC III 11 09 25 49.8–1.9 36.11N 141.86E 22–13 4.7b
JMA III 11 09 25 50.1–.10 36.16N 141.87E 54–3 4.8
IDC III 11 09 25 51.2–5.3 36.09N 141.86E 30–38 4.5,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=178.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.3km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.2km az=111.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 26 34.7–.10 38.88N 142.73E 23–1 4.1 ¶602653286

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 09 27 42.0–.35 38.28N–.04 142.06E–.04 65–2 5.2b 418 1-156
BJI III 11 09 27 33.2 38.43N 142.47E 25 5.2b ¶16309749
JMA III 11 09 27 37.8–.20 38.30N 142.19E 36–3 5.4
MOS III 11 09 27 37.4–.93 38.46N 142.21E 33 5.5b
ISCJB III 11 09 27 38.5–.49 38.30N–.03 142.15E–.03 47–4 6.2s,5.2b
NEIC III 11 09 27 42.2–.53 38.30N 142.16E 68–5 5.3b,5.2b
IDC III 11 09 27 43.4–1.8 38.28N 142.15E 79–16 6.1s,6.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=98.7.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=138.6.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=135.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=10.3km s-min=9.2km az=109.0.

(228) Near east coast of eastern Honshu

JMA III 11 09 30 37.0–.10 39.08N 142.28E 42–2 3.7 ¶602654322
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 09 31 13.8–.39 36.61N–.04 142.22E–.05 19 4.7b 102 1-151
ISCJB III 11 09 31 12.2–.24 36.58N–.03 142.26E–.03 19 5.6s,4.6b **¶602654316**
JMA III 11 09 31 15.3–.40 36.74N 142.04E 12–5 4.9,4.6b
IDC III 11 09 31 16.6–3.0 36.61N 142.19E 38–25 5.6,5.6s
NEIC III 11 09 31 18.1–.78 36.58N 142.17E 53–7 4.8b,5.6s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=161.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=11.7km az=111.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=124.0.
(228) Near east coast of eastern Honshu
ISC III 11 09 31 59.6–1.1 38.4N–.20 142.94E–.09 23 4.4b 15 1-88
IDC III 11 09 31 56.0–1.2 38.45N 142.92E 0 4.6,4.4 **¶17193739**
ISCJB III 11 09 31 57.6–.93 38.5N–.20 143.06E–.10 23 4.4b,4.4
JMA III 11 09 31 59.3–.30 38.49N 142.91E 8–4 4.6,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=27.2km az=7.0.
ISCJB Event type fe. Error ellipse: s-maj=23.2km s-min=10.1km az=169.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 33 35.7–.20 37.42N 141.73E 40–4 4.5 ¶603049337
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 09 34 18.0–1.5 37.29N–.04 141.44E–.07 32–9 5.0b 37 0-152
NEIC III 11 09 34 12.8–.52 37.70N 142.65E 35 5.0b **¶600539230**
ISCJB III 11 09 34 18.0–.91 37.26N–.04 141.40E–.09 55–5 5.0b
JMA III 11 09 34 20.3–.10 37.30N 141.27E 46–1 4.8
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=13.9km s-min=9.1km az=119.0. Recorded [3 JMA] in Fukushima and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.2km az=15.8.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 09 35 03.7–.20 35.89N 141.00E 23–3 4.0 ¶16461300
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 36 47.5–.30 35.85N 140.94E 22–2 3.6 ¶602654302
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 09 37 08.1–.28 35.94N–.03 141.60E–.03 29–1 5.5b 1191 1-154
IDC III 11 09 37 03.6–.35 35.94N 141.72E 0 5.1,5.0 **¶16304107**
NEIC III 11 09 37 04.6–1.4 35.91N 141.60E 6–8 5.5b,5.0
ISCJB III 11 09 37 05.9–.79 35.95N–.02 141.62E–.02 24–5 5.6s,5.5b
BJI III 11 09 37 05.6 35.92N 141.59E 29 5.8s,5.6
MOS III 11 09 37 06.2–1.0 35.97N 141.58E 26 5.6b,5.6
JMA III 11 09 37 06.4–.20 36.03N 141.77E 31–3 5.3,5.6
ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=8.7km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=128.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Saitama and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=136.1.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 38 25.4–.10 36.89N 141.09E 49–1 4.3 ¶602654292
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 39 26.4–.10 35.74N 141.03E 34–1 3.6 ¶602654290
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 09 40 11.5–.79 37.32N–.08 142.4E–.10 38–3 4.9b 41 1-89
IDC III 11 09 40 05.6–.92 37.28N 142.48E 0 4.9,4.8 **¶602654285**
JMA III 11 09 40 08.6–.30 37.33N 142.31E 9 5.1,4.8
ISCJB III 11 09 40 09.5–1.4 37.29N–.05 142.46E–.09 38–11 4.8b,4.8
NEIC III 11 09 40 11.1–1.9 37.14N 142.50E 41–17 4.8b,4.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=22.7km az=88.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=9.2km az=5.9.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=11.4km az=67.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 40 19.0–.20 38.29N 142.57E 0 5.1 ¶600539247
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 41 38.7–.10 37.32N 141.10E 28–1 4.1 ¶602654284
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 09 42 20.9–.81 39.48N–.03 142.84E–.04 25–5 5.2b 851 2-159
IDC III 11 09 42 17.6–.45 39.54N 142.79E 0 5.1,5.0 **¶16304945**
JMA III 11 09 42 20.1–.20 39.50N 142.75E 24–2 5.6,5.0
ISCJB III 11 09 42 20.2–.91 39.53N–.02 142.78E–.02 26–6 5.3s,5.1b
MOS III 11 09 42 20.0–.87 39.68N 142.72E 20 5.4b,5.1b
BJI III 11 09 42 20.1 39.43N 142.75E 32 5.8s,5.6
NEIC III 11 09 42 20.6–1.6 39.50N 142.71E 18–9 5.3b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=149.3.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=86.5.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=142.0. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
(228) Near east coast of eastern Honshu
JMA III 11 09 44 18.1 36.74N 140.79E 14–1 3.6 ¶602654279
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 09 44 49.1–.20 38.99N 142.48E 24–3 3.9 ¶603049338
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 09 45 22.0–.43 36.63N–.06 142.37E–.07 15 5.0b 88 1-151
ISCJB III 11 09 45 20.8–.26 36.68N–.05 142.32E–.05 15 4.9b **¶602654268**
NEIC III 11 09 45 25.1–.81 36.66N 142.30E 35–7 5.0b
IDC III 11 09 45 25.4–.56 36.71N 142.33E 37–3 4.7,4.7
JMA III 11 09 45 35.5–.10 36.92N 141.04E 46–1 3.7,4.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.5km az=147.5.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.2km az=135.0.
IDC Error ellipse: s-maj=15.5km s-min=11.8km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 09 47 00.7–.45 39.65N–.03 143.25E–.04 34–1 5.5b 702 2-154
BJI III 11 09 46 56.5 39.62N 143.15E 22 5.7s,5.6 **¶602654271**
JMA III 11 09 46 58.7–.20 39.59N 143.26E 28 5.7,5.6
MOS III 11 09 46 58.6–.96 39.69N 143.06E 25 5.8b,5.6
ISCJB III 11 09 46 59.3–.85 39.67N–.02 143.06E–.03 29–5 5.8s,5.4b
NEIC III 11 09 47 01.8–.50 39.60N 143.06E 39–4 5.4b,5.4b
IDC III 11 09 47 01.8–1.9 39.61N 143.19E 40–17 5.1,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.6km s-min=3.9km az=106.9.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.5km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=146.0. Recorded [2 JMA] in Akita, Aomori, Fukushima, Ibaraki, Iwate, Miyagi, Tochigi and Yamagata.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=109.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 47 50.6–.10 35.98N 141.14E 20–2 4.0 ¶602654266
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 48 39.2–.10 36.53N 140.85E 49–1 4.2 ¶16304946
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 09 50 21.9 36.55N 140.92E 48–1 3.9 ¶602654262
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 09 51 03.7–.44 36.22N–.05 141.88E–.05 23 4.7b 58 1-147
ISCJB III 11 09 51 01.6–.33 36.23N–.04 141.95E–.04 23 4.6b **¶602654256**
JMA III 11 09 51 03.3–.20 36.29N 141.97E 44 4.4
NEIC III 11 09 51 06.7–.83 36.22N 141.82E 48–7 5.1b
IDC III 11 09 51 06.3–2.0 36.22N 141.84E 44–18 4.6,4.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=44.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=107.0.
IDC Error ellipse: s-maj=15.5km s-min=9.9km az=87.0.
(229) Off east coast of Honshu
JMA III 11 09 52 15.4–.30 36.13N 142.01E 15 4.5 ¶602654254
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 09 52 42.2–.51 37.68N–.04 141.88E–.05 44–4 5.0b 234 1-146
JMA III 11 09 52 41.0–.10 37.69N 141.85E 32–3 4.9 **¶16313878**
ISCJB III 11 09 52 41.1–.57 37.67N–.03 141.85E–.04 47–4 5.2s,5.0b
MOS III 11 09 52 42.8–.86 37.88N 141.71E 51 5.2b,5.0b
NEIC III 11 09 52 43.8–.59 37.72N 141.81E 56–5 5.0b,5.0b
IDC III 11 09 52 44.1–2.0 37.73N 141.82E 59–17 5.2s,5.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=27.0.
MOS Error ellipse: s-maj=8.7km s-min=6.6km az=114.1.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=131.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.6km s-min=8.8km az=111.0.
(229) Off east coast of Honshu
ISC III 11 09 55 02.3–.40 38.05N–.05 142.80E–.05 18 4.8b 97 1-154
IDC III 11 09 54 58.1–.47 38.21N 143.31E 0 4.7,4.6 **¶602654248**
NEIC III 11 09 55 00.0–.36 38.12N 143.07E 10 4.7,4.6
ISCJB III 11 09 55 00.3–.30 38.08N–.04 142.89E–.04 18 4.7b,4.6
JMA III 11 09 55 03.7–.20 38.09N 142.64E 20 5.4,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=13.3km s-min=11.2km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.8km az=129.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=150.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 09 55 25.0–1.0 36.90N–.08 141.77E–.06 34–2 4.8b 38 1-83
ISCJB III 11 09 55 20.4–1.6 36.73N–.06 141.95E–.06 15–9 4.9b **¶16476137**
JMA III 11 09 55 21.2–.30 36.75N 141.80E 0 5.4
NEIC III 11 09 55 27.2–.59 37.41N 141.69E 35 5.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=8.0km az=163.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=10.3km az=122.0.
(228) Near east coast of eastern Honshu
JMA III 11 09 57 13.4 36.67N 140.95E 48–1 4.3 ¶602654246
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 09 58 28.3–.56 37.92N–.07 142.75E–.07 14 4.5b 34 1-145
ISCJB III 11 09 58 26.3–.49 37.87N–.07 142.59E–.08 14 4.5b **¶603049340**
IDC III 11 09 58 26.1–.72 37.94N 142.74E 0 4.6,4.5
NEIC III 11 09 58 31.1–.47 37.88N 142.70E 35 4.8b,4.5
JMA III 11 09 58 32.4–.10 37.06N 141.30E 40–1 4.7,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=8.6km az=3.5.
IDC Error ellipse: s-maj=19.8km s-min=18.9km az=53.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.0km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 09 59 52.4–.32 36.62N–.04 142.28E–.05 15 5.2b 338 1-160
ISCJB III 11 09 59 51.1–.16 36.61N–.02 142.25E–.02 15 5.0b,5.0s **¶16476272**
NEIC III 11 09 59 52.0–.14 36.66N 142.19E 10 5.3b,5.0s
JMA III 11 09 59 52.6–.20 36.65N 142.30E 36 5.0,5.0s
MOS III 11 09 59 53.1–1.1 36.66N 142.23E 32 5.3b,5.0s
IDC III 11 09 59 55.8–2.3 36.65N 142.24E 39–20 4.7,4.6
BJI III 11 09 59 57.6 37.07N 141.68E 42 5.8b,5.6s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=162.4.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=152.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=6.6km az=105.3.
IDC Error ellipse: s-maj=11.7km s-min=9.5km az=107.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 00 52.3–.20 37.46N 141.28E 28–3 4.0 ¶603049341
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 02 39.9–.20 38.44N 142.03E 36–4 4.1 ¶602654240
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 03 20.9–.10 37.40N 141.28E 24–1 4.0 ¶602654237
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 10 04 39.8–.10 36.32N 140.50E 14–1 3.0 ¶603049343
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 10 05 10.5–.48 36.56N–.06 141.81E–.06 26 4.6b 56 1-152
IDC III 11 10 05 06.5–.66 36.67N 141.77E 0 4.7,4.5 **¶17193754**
ISCJB III 11 10 05 08.7–.35 36.62N–.05 141.80E–.05 26 4.5b,4.5
NEIC III 11 10 05 11.9–1.0 36.62N 141.72E 36–9 4.7b,4.5
JMA III 11 10 05 20.0–.20 36.77N 141.34E 33–3 4.6,4.5
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=16.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.5km az=157.1.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=60.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 10 09 39.0 36.12N 136.51E 9–1 4.0 ¶602654219
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ76.00000°,λ-20.00000°. NP2:ϕ_s112.00000°,δ70.00000°,λ-165.00000°. Principal axes: T Plg4.0000°,Azm65.0000°; N Plg66.0000°,Azm164.0000°; P Plg24.0000° ,Azm333.0000°

(228) Near east coast of eastern Honshu
ISC III 11 10 10 18.6–.61 38.8N–.10 142.69E–.08 27 4.6b 48 1-145
IDC III 11 10 10 14.8–.64 38.85N 142.63E 0 4.5,4.4 ¶16476280
NEIC III 11 10 10 15.3–3.3 38.83N 142.70E 5–20 4.9b,4.4
ISCJB III 11 10 10 16.9–.42 38.81N–.07 142.70E–.06 27 4.5b,4.4
JMA III 11 10 10 18.5–.30 38.94N 142.59E 31–5 4.7,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=15.4km az=101.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.0km az=152.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 10 10 34.5–.47 39.22N–.03 142.59E–.03 28–3 6.2s,6.0b 1801 2-159
NIED III 11 10 10 00 39.40N 142.10E 53 6.2W,6.0b ¶17193757
ISCJB III 11 10 10 29.6–.73 39.14N–.02 142.83E–.02 7–4 6.2s,5.9b
IDC III 11 10 10 30.5–.32 39.24N 142.77E 0 6.2,6.2s
BJI III 11 10 10 30.3 39.30N 142.80E 30 6.4b,6.1
MOS III 11 10 10 33.7–1.2 39.20N 142.72E 32 6.3s,6.2b
NEIC III 11 10 10 34.2–.97 39.19N 142.76E 26–6 6.0b,6.2b
JMA III 11 10 10 39.7–.10 39.33N 142.15E 44–1 6.2,6.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ19.00000°,λ69.00000°. NP2:ϕ_s29.00000°,δ72.00000°,λ97.00000°. $M_0$1.90000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=154.8.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=96.0.
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=108.6.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=141.0. Recorded [4 JMA] in Iwate and Miyagi.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 10 13 12.4–.10 38.63N 141.92E 46–1 5.3
¶602654211
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 15 28.9–.10 38.35N 141.81E 49–2 4.4
¶602654208
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 10 15 49.2–.40 35.89N–.05 140.96E–.06 31 4.8b 69 0-152
IDC III 11 10 15 44.3–.57 35.86N 141.06E 0 4.7,4.6 ¶16461308
ISCJB III 11 10 15 47.5–.33 35.92N–.04 141.00E–.04 31 4.7b,4.6
JMA III 11 10 15 48.1–.10 35.99N 141.03E 36–1 4.6,4.6
NEIC III 11 10 15 49.4–.27 35.81N 140.98E 35 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=15.0km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=5.0km az=37.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=91.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 18 34.7–.10 36.60N 141.00E 42–1 3.6
¶602654199
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 10 19 52.2–.45 36.02N–.05 141.70E–.06 26 4.6b 52 1-152
IDC III 11 10 19 48.4–.59 36.02N 141.65E 0 5.2L,4.6 ¶16476285
JMA III 11 10 19 50.6–.30 36.11N 141.78E 26 4.5,4.6
ISCJB III 11 10 19 50.3–.34 35.99N–.04 141.79E–.05 26 4.6b,4.6
NEIC III 11 10 19 51.6–2.7 36.05N 141.61E 22–19 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.9km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=41.2.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.2km az=101.0.
(229) Off east coast of Honshu
ISC III 11 10 20 26.7–.39 36.95N–.04 142.31E–.04 23–2 5.4b 828 1-160
BJI III 11 10 20 23.1 36.67N 142.27E 22 6.0b,5.8 ¶602654193
JMA III 11 10 20 24.5–.30 36.91N 142.29E 12–5 5.8,5.8
NEIC III 11 10 20 26.2–.73 36.90N 142.25E 18–4 5.4b,5.8
ISCJB III 11 10 20 26.0–1.0 36.91N–.02 142.24E–.02 27–7 5.8s,5.3b
MOS III 11 10 20 28.5–.83 37.30N 142.17E 33 5.7b,5.3b
IDC III 11 10 20 29.0–1.9 36.84N 142.30E 42–17 5.0,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=160.9.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=99.3.
IDC Error ellipse: s-maj=10.8km s-min=9.8km az=102.0.
(229) Off east coast of Honshu
ISC III 11 10 21 07.5–1.3 37.29N–.04 142.05E–.05 30–9 5.4b 257 1-157
ISCJB III 11 10 21 03.7–.85 37.24N–.03 142.08E–.04 15–5 5.5s,5.3b ¶16476287
MOS III 11 10 21 06.5–.92 37.37N 142.08E 31 5.6b,5.3b
JMA III 11 10 21 07.6–.20 37.35N 141.91E 22–4 5.5,5.3b
NEIC III 11 10 21 09.3–.62 37.26N 142.03E 44–5 5.4b,5.3b
IDC III 11 10 21 09.5–1.8 37.27N 142.00E 42–16 5.5s,5.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=32.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=93.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=122.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=102.0.
(228) Near east coast of eastern Honshu
ISC III 11 10 26 50.9–1.6 36.73N–.04 141.53E–.05 15–10 4.5b 61 1-155
IDC III 11 10 26 48.4–.55 36.69N 141.59E 0 4.8L,4.6 ¶600539312
ISCJB III 11 10 26 50.7–1.0 36.72N–.03 141.61E–.05 28–7 4.4b,4.6
NEIC III 11 10 26 53.6–.28 36.69N 141.50E 35 4.7b,4.6
JMA III 11 10 26 53.0–.20 36.75N 141.49E 46–2 4.5,4.6
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=14.4km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=174.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.1km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 27 47.4–.20 37.34N 141.92E 21–3 4.6
¶603049347
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 28 43.6–.20 36.31N 140.84E 35–2 3.8
¶602654174
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 30 20.8–.20 35.91N 141.14E 37–2 3.7
¶602654167
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 31 15.8–.20 38.48N 142.22E 31–3 4.3
¶602654163
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 32 04.0–.10 36.80N 141.15E 34–1 4.1
¶602654160
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 32 32.0–.10 39.20N 142.40E 28–1 4.8
¶602654156
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 10 35 37.1–.27 37.05N–.03 141.32E–.04 45–2 5.0b 830 0-161
BJI III 11 10 35 31.3 36.61N 141.30E 16 5.5s,5.4 ¶17193775
NEIC III 11 10 35 36.7–.45 37.05N 141.20E 38–4 5.2b,5.4
JMA III 11 10 35 36.5–.10 37.07N 141.34E 49–1 5.1,5.4
MOS III 11 10 35 36.3–.87 37.31N 141.15E 40 5.1b,5.4
ISCJB III 11 10 35 36.4–.35 37.04N–.02 141.22E–.03 50–3 5.6s,5.0b
IDC III 11 10 35 37.2–.32 37.07N 141.18E 45–2 4.9,4.7
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=130.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=80.3.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=37.0.
IDC Error ellipse: s-maj=10.6km s-min=7.5km az=110.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 36 54.4–.10 36.46N 141.10E 41–2 3.9
¶602654146
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(227) Eastern Honshu
JMA III 11 10 38 06.2 36.26N 137.56E 2 3.6
¶602654139
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 10 38 50.0–2.1 38.40N–.07 142.24E–.06 11–12 4.2b 29 1-76
IDC III 11 10 38 47.8–2.7 38.32N 142.22E 0 4.3,4.2 ¶16476305
ISCJB III 11 10 38 50.7–1.4 38.40N–.07 142.31E–.06 27–8 4.2b,4.2
JMA III 11 10 38 52.0–.10 38.49N 142.23E 31–2 5.0,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=65.6km s-min=20.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.2km az=151.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 10 39 20.9–.70 36.0N–.10 141.87E–.10 23 4.6b 28 3-147
IDC III 11 10 39 18.6–.69 36.21N 141.89E 0 4.6,4.5b ¶16476309
ISCJB III 11 10 39 19.6–.49 36.03N–.08 141.86E–.08 23 4.5b,4.5b
NEIC III 11 10 39 22.8–.34 35.98N 141.85E 35 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=17.1km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=8.7km az=164.6.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.6km az=162.0. Recorded [2 JMA] in Akita, Fukushima and Miyagi.
(227) Eastern Honshu
JMA III 11 10 40 53.7 36.82N 139.46E 4 3.5
¶603049348
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 10 41 34.1–.10 36.50N 141.24E 39–2 3.6
¶603049351
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 43 32.5–.10 36.23N 140.88E 46–1 4.0
¶602654125
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 10 44 06.4–.57 38.37N–.09 143.11E–.08 23 4.6b 44 1-88
IDC III 11 10 44 02.6–.58 38.36N 143.21E 0 4.6,4.5b ¶602654122
ISCJB III 11 10 44 04.4–.41 38.36N–.06 143.09E–.06 23 4.6b,4.5b
NEIC III 11 10 44 08.0–.29 38.39N 143.12E 35 5.0b,4.5b
JMA III 11 10 44 16.5–.30 38.97N 142.36E 36–4 4.6,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=14.1km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=6.7km az=159.5.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.8km az=127.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 45 21.0–.10 35.88N 141.39E 30–2 4.9
¶16476165
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 10 45 43.5–.47 38.50N–.04 143.76E–.05 26–2 5.6b 628 4-150
IDC III 11 10 45 39.8–.45 38.40N 143.73E 0 5.3,5.2 ¶602707278
BJI III 11 10 45 43.8 38.58N 143.45E 31 5.8b,5.5
ISCJB III 11 10 45 43.5–.13 38.46N–.02 143.69E–.02 33 5.6s,5.5b
NEIC III 11 10 45 44.7–1.6 38.42N 143.75E 33–11 5.6b,5.5b
MOS III 11 10 45 45.1–1.0 38.71N 143.56E 38 5.7b,5.5b
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=146.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=151.9.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=138.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=96.6.
(228) Near east coast of eastern Honshu
JMA III 11 10 46 16.8–.10 36.85N 141.14E 47–1 4.8
¶603049352
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 49 44.2–.20 36.55N 141.71E 72–5 4.0
¶602654116
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 10 53 12.1–.30 36.16N 141.33E 33–4 4.0
¶603049353
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(227) Eastern Honshu
JMA III 11 10 53 46.9 37.28N 140.98E 28 3.5
¶602654085
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 10 54 13.0–.79 37.18N–.08 140.7E–.20 61–6 4.4b 17 0-90
IDC III 11 10 53 58.8–.76 35.97N 140.68E 0 4.5,4.3 ¶17193779
JMA III 11 10 54 11.9–.10 37.08N 141.30E 50–1 4.2,4.3
ISCJB III 11 10 54 12.0–.53 37.18N–.07 140.7E–.10 68–3 4.2b,4.3
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 10 56 11.4–1.4 36.66N–.10 141.4E–.10 19 4.5b 8 1-68
ISCJB III 11 10 56 09.2–1.1 36.66N–.08 141.6E–.10 19 4.5b ¶17193786
IDC III 11 10 56 10.0–5.7 36.30N 142.66E 0 4.7,4.6
JMA III 11 10 56 16.5–.30 36.84N 141.12E 47–2 3.5,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=7.8km az=138.4.
IDC Error ellipse: s-maj=221.3km s-min=24.0km az=63.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 10 58 03.2–.73 39.00N–.04 142.37E–.04 20–3 5.1b 389 1-147
IDC III 11 10 57 60.0–.52 38.94N 142.33E 0 4.8,4.8 ¶602654060
BJI III 11 10 57 59.3 38.90N 142.53E 20 5.5b,5.4s
MOS III 11 10 58 02.4–.83 39.08N 142.24E 21 5.4b,5.4s
NEIC III 11 10 58 02.8–1.6 39.00N 142.27E 15–10 5.2b,5.4s
JMA III 11 10 58 04.3–.10 39.02N 142.37E 32–1 4.9,5.4s
ISCJB III 11 10 58 04.1–.96 39.00N–.02 142.32E–.03 33–6 5.0s,5.0b
ISC Event type ke.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 11 00 53.7–.39 37.76N–.03 141.66E–.04 54–3 5.5b 1416 1-160
BJI III 11 11 00 48.6 37.73N 141.83E 42 5.8b,5.5 ¶17193791
MOS III 11 11 00 50.5–.79 37.92N 141.57E 32 5.7b,5.5
IDC III 11 11 00 51.2–3.6 37.74N 141.59E 33–27 5.4,5.3
NEIC III 11 11 00 52.4–.35 37.74N 141.50E 42–3 5.6b,5.3
JMA III 11 11 00 53.0 37.72N 141.73E 46–2 5.5,5.3
ISCJB III 11 11 00 54.0–.26 37.77N–.02 141.58E–.02 65–2 5.4b,5.3
ISC Event type se.

NEIC Event type fe. Recorded [4 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 01 55.4**	**36.75N**	**140.62E**	**4–1**	**3.7**			
									¶602654046

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 02 25.7–.47**	**39.09N–.07**	**143.09E–.07**	**16**	**5.1b**	**59**	**2-96**	
IDC	III	11 11 02 23.0–.63	39.09N	143.07E	0	5.0,4.9			**¶16476330**
ISCJB	III	11 11 02 24.2–.31	39.15N–.05	143.03E–.06	16	5.0b,4.9			
JMA	III	11 11 02 25.6–.30	39.17N	142.96E	22–5	5.3,4.9			
NEIC	III	11 11 02 30.0–.77	39.17N	142.97E	48–7	5.3,4.9			

ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=13.8km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.7km az=136.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.6km az=119.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 03 03.3–.30**	**36.01N**	**141.26E**	**25–3**	**4.4**			
									¶602654453

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 06 04.4–.58**	**37.98N–.07**	**142.62E–.05**	**14**	**4.4b**	**42**	**1-145**	
ISCJB	III	11 11 06 02.6–.47	37.97N–.07	142.82E–.04	14	4.5b			**¶602654435**
IDC	III	11 11 06 02.3–.71	37.95N	142.61E	0	4.5,4.4			
JMA	III	11 11 06 04.3–.30	38.12N	142.70E	13	5.0,4.4			
NEIC	III	11 11 06 07.6–.34	38.00N	142.61E	35	5.0b,4.4			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=4.6km az=167.6.
IDC Error ellipse: s-maj=18.6km s-min=17.8km az=1.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.9km az=150.0.

(229) Off east coast of Honshu

ISC	**III**	**11 11 06 40.4–.43**	**36.97N–.06**	**142.62E–.06**	**9**	**4.8b**	**113**	**4-150**	
IDC	III	11 11 06 39.0–.56	36.95N	142.59E	0	4.8,4.7			**¶602654431**
ISCJB	III	11 11 06 39.1–.33	37.04N–.04	142.57E–.05	9	4.8b,4.7			
NEIC	III	11 11 06 44.4–.25	37.02N	142.54E	35	4.8b,4.7			

ISC Event type ke.
IDC Error ellipse: s-maj=14.1km s-min=12.8km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.2km az=141.5.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=138.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 07 27.5–.10**	**36.62N**	**140.97E**	**48–1**	**4.3**		
								¶17193793

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 08 27.6–.10**	**36.54N**	**140.82E**	**14–2**	**3.5**		
								¶602654427

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 11 08 45.9–.55**	**37.38N–.05**	**142.65E–.08**	**37–2**	**4.8b**	**106**	**1-97**	
JMA	III	11 11 08 43.5–.20	37.49N	142.50E	11	5.0			**¶16453089**
ISCJB	III	11 11 08 44.8–.77	37.41N–.04	142.64E–.05	43–6	4.7b			
NEIC	III	11 11 08 47.4–.78	37.44N	142.62E	49–6	4.9b			
IDC	III	11 11 08 47.4–1.9	37.42N	142.57E	48–18	4.7,4.5			

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.7km az=31.1.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=124.0.
IDC Error ellipse: s-maj=15.0km s-min=11.3km az=96.0.

(227) Eastern Honshu

JMA	**III**	**11 11 10 54.8**	**36.86N**	**139.33E**	**5–1**	**3.5**		
								¶603049357

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 11 10 56.3–.27**	**35.55N–.03**	**141.92E–.04**	**22**	**5.5b**	**503**	**1-153**	
IDC	III	11 11 10 52.6–.42	35.57N	141.96E	0	5.7,5.7s			**¶602442251**
JMA	III	11 11 10 54.1–.30	35.73N	142.11E	28–5	5.9,5.7s			
BJI	III	11 11 10 54.0	35.47N	141.63E	14	6.1s,5.9			
ISCJB	III	11 11 10 54.9–.13	35.55N–.02	141.84E–.02	22	5.9s,5.3b			
MOS	III	11 11 10 56.1–1.2	35.65N	141.84E	29	5.6b,5.3b			
NEIC	III	11 11 10 58.3–.11	35.54N	141.84E	35	5.5b,5.3b			

ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=90.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=152.2.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=110.1.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.5km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 13 11.6–.50**	**36.38N–.03**	**141.89E–.03**	**20–2**	**5.5b**	**965**	**1-158**	
BJI	III	11 11 13 08.9	36.15N	141.53E	10	6.1s,5.9			**¶16304958**
JMA	III	11 11 13 10.7–.10	36.32N	141.95E	37	5.6,5.9			
ISCJB	III	11 11 13 11.2–.65	36.33N–.02	141.85E–.02	26–4	6.0s,5.4b			
NEIC	III	11 11 13 13.0–.98	36.38N	141.78E	26–7	5.5b,5.4b			
MOS	III	11 11 13 13.7–.96	36.72N	141.69E	33	5.7b,5.4b			
IDC	III	11 11 13 14.1–2.1	36.35N	141.83E	37–18	5.1,5.0			

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=174.4.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=146.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Iwate, Miyagi, Saitama, Tochigi and Yamagata.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=109.2.
IDC Error ellipse: s-maj=10.7km s-min=9.3km az=104.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 15 16.8–.10**	**38.91N**	**142.06E**	**45–2**	**4.5**		
								¶602707290

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 11 15 52.0–.38**	**39.17N–.06**	**143.50E–.06**	**20**	**5.2b**	**252**	**2-148**	
ISCJB	III	11 11 15 50.7–.20	39.18N–.03	143.40E–.04	20	5.0b			**¶16453090**
JMA	III	11 11 15 51.0–.40	39.07N	143.54E	35	5.4			
MOS	III	11 11 15 53.9–.91	39.14N	143.38E	48	5.5b			
IDC	III	11 11 15 55.6–1.6	39.16N	143.44E	49–15	4.8,4.6			
NEIC	III	11 11 15 56.2–.55	39.19N	143.32E	52–5	5.3b,4.6			

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=144.5.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=6.6km az=99.2.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=125.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=133.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 16 49.2–.56**	**36.61N–.04**	**141.92E–.04**	**32–3**	**5.4b**	**762**	**1-157**	
IDC	III	11 11 16 44.3–.34	36.66N	141.95E	0	5.1,5.1			**¶17193797**
ISCJB	III	11 11 16 44.3–.92	36.65N–.03	142.11E–.03	15–6	6.2s,5.4b			
BJI	III	11 11 16 46.3	36.40N	142.10E	34	5.9s,5.8b			
MOS	III	11 11 16 48.3–.98	36.66N	141.80E	33	5.6b,5.8b			
JMA	III	11 11 16 49.7–.20	36.63N	141.71E	43–3	5.5,5.8b			
NEIC	III	11 11 16 50.2–.60	36.63N	141.81E	37–5	5.5b,5.8b			

ISC Event type se.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.7km az=160.8.
MOS Error ellipse: s-maj=7.8km s-min=5.2km az=103.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=124.0. Recorded [3 JMA] in Fukushima and Tochigi.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 19 31.7–.20**	**36.95N**	**141.14E**	**48–2**	**3.5**		
								¶602654041

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 21 02.7–.36**	**35.72N–.03**	**141.03E–.04**	**35–1**	**5.6b**	**1044**	**0-162**	
BJI	III	11 11 20 56.8	35.67N	141.06E	15	5.9s,5.6			**¶602707286**
JMA	III	11 11 20 59.9–.20	35.79N	141.20E	39–1	5.6,5.6			
MOS	III	11 11 21 01.3–.90	35.72N	140.93E	33	5.7b,5.6			
ISCJB	III	11 11 21 02.4–.33	35.70N–.02	140.93E–.02	42–3	5.9s,5.5b			
NEIC	III	11 11 21 03.1–.10	35.68N	140.93E	35	5.7b,5.5b			
IDC	III	11 11 21 03.2–.46	35.65N	141.00E	40–4	5.1,5.0			

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=108.5.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=174.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=150.0. Recorded [4 JMA] in Chiba.
IDC Error ellipse: s-maj=9.5km s-min=6.3km az=108.0.

(229) Off east coast of Honshu

JMA	**III**	**11 11 24 08.5–.20**	**37.74N**	**142.10E**	**23–4**	**4.5**		
								¶602654039

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 11 25 33.5–.42**	**35.55N–.05**	**142.04E–.07**	**22**	**4.5b**	**103**	**3-152**	
NEIC	III	11 11 25 31.7–3.5	35.57N	142.01E	10–21	5.2b			**¶16453092**
ISCJB	III	11 11 25 31.5–.29	35.57N–.03	142.04E–.05	22	4.5b			
IDC	III	11 11 25 34.4–.48	35.50N	142.05E	33–3	4.4,4.3			

ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=6.5km az=121.0. Recorded [2 JMA] in Chiba, Ibaraki, Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=26.8.
IDC Error ellipse: s-maj=13.3km s-min=10.9km az=120.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 25 58.1–.10**	**38.44N**	**142.29E**	**35–2**	**5.0**		
								¶602654037

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 11 27 19.7–.34**	**39.17N–.04**	**143.44E–.05**	**20**	**5.2b**	**180**	**3-154**	
IDC	III	11 11 27 16.5–.41	39.13N	143.44E	0	4.8,4.8			**¶16453093**
NEIC	III	11 11 27 18.5–.16	39.13N	143.37E	10	5.4b,4.8			
ISCJB	III	11 11 27 18.2–.20	39.09N–.03	143.33E–.04	20	5.0b,4.8			
MOS	III	11 11 27 19.7–1.2	39.16N	143.38E	33	5.6b,4.8			
JMA	III	11 11 27 20.2–.30	39.26N	143.29E	0	5.7,4.8			

ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=9.5km az=109.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=29.9.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=98.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 28 51.7–.44**	**38.54N–.05**	**142.35E–.06**	**35**	**5.0b**	**143**	**1-152**	
IDC	III	11 11 28 46.2–.62	38.48N	142.22E	0	5.0,4.9			**¶16453094**
MOS	III	11 11 28 49.9–1.0	38.51N	142.12E	33	5.4b,4.9			
NEIC	III	11 11 28 50.8–1.4	38.50N	142.16E	28–9	5.2b,4.9			
ISCJB	III	11 11 28 50.1–.26	38.48N–.03	142.27E–.04	35	5.0b,4.9			
JMA	III	11 11 28 52.5–.20	38.70N	142.26E	35–2	5.2,4.9			

ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=14.0km az=156.0.
MOS Error ellipse: s-maj=10.2km s-min=6.7km az=88.4.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.2km az=24.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 11 30 18.3–.47**	**39.24N–.05**	**143.54E–.06**	**11**	**5.2b**	**232**	**3-148**	
JMA	III	11 11 30 16.2–.50	39.29N	143.63E	0	5.7			**¶602654035**
IDC	III	11 11 30 16.7–.58	39.24N	143.48E	0	4.9,4.8			
ISCJB	III	11 11 30 17.1–.26	39.25N–.03	143.44E–.04	11	5.1b,4.8			
NEIC	III	11 11 30 19.1–1.7	39.22N	143.43E	14–10	5.4b,4.8			
MOS	III	11 11 30 20.6–1.0	39.31N	143.38E	34	5.5b,4.8			

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=11.7km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=135.3.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.4km az=138.0.
MOS Error ellipse: s-maj=8.5km s-min=5.4km az=112.6.

(227) Eastern Honshu

ISC	**III**	**11 11 31 07.4–1.0**	**38.17N–.02**	**140.48E–.03**	**6–6**	**5.1b**	**132**	**0-151**	
IDC	III	11 11 31 05.5–.51	38.05N	140.47E	0	5.0,4.8			**¶602654033**
ISCJB	III	11 11 31 06.7–.48	38.19N–.02	140.48E–.02	4–3	4.9b,4.8			
JMA	III	11 11 31 07.0	38.18N	140.49E	9–1	5.2,4.8			
MOS	III	11 11 31 09.7–1.5	38.12N	140.33E	33	5.3b,4.8			
NEIC	III	11 11 31 14.0–.79	38.09N	140.12E	58–8	5.1b,4.8			

ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=12.7km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.0km az=11.2.
JMA Event type fe.
MOS Error ellipse: s-maj=12.6km s-min=7.0km az=69.4.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=118.0. Recorded [4 JMA] in Miyagi and Yamagata.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 35 34.0–.10**	**36.45N**	**141.16E**	**43–2**	**4.3**		
								¶603049362

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 36 40.0–.40**	**39.22N–.02**	**142.53E–.03**	**19–1**	**6.7s,6.5b**	**2188**	**2-161**	
NIED	III	11 11 36 00	39.20N	142.60E	38	6.6W,6.5b			**¶17193804**
IDC	III	11 11 36 36.9–.30	39.25N	142.47E	0	6.8,6.8s			
BJI	III	11 11 36 36.6	39.00N	142.50E	20	6.9,6.9s			
ISCJB	III	11 11 36 39.8–.61	39.21N–.01	142.51E–.01	30–4	6.7s,6.4b			
JMA	III	11 11 36 39.9–.10	39.23N	142.58E	24–1	6.7,6.4b			
NEIC	III	11 11 36 40.9–.68	39.24N	142.46E	26–4	6.6s,6.5b			
MOS	III	11 11 36 41.0–.92	39.38N	142.46E	33	6.8b,6.8s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ33.00000°,λ5.00000°. NP2:ϕ_s54.00000°,δ87.00000°,λ123.00000°. $M_0$8.33000×10^{18}
IDC Error ellipse: s-maj=11.1km s-min=8.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=142.0. Felt at Kashiwa, Misawa, Tokyo, Urayasu and Yokohama. Recorded [5L JMA] in Iwate.
MOS Error ellipse: s-maj=5.2km s-min=3.4km az=103.5.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 11 39 27.5–.20**	**38.33N**	**142.25E**	**25–3**	**5.8**		
								¶602654028

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 41 04.5–.81**	**36.7N–.10**	**142.07E–.08**	**19**	**4.7b**	**20**	**1-90**	
IDC	III	11 11 41 01.0–.87	36.78N	142.39E	0	4.9,4.8L			**¶17193806**
ISCJB	III	11 11 41 02.8–.62	36.68N–.08	142.13E–.07	19	4.6b,4.8L			
JMA	III	11 11 41 08.5–.20	36.64N	141.78E	51–4	4.9,4.8L			

ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=22.5km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.3km az=19.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 11 42 09.8–.53**	**39.35N–.06**	**142.87E–.08**	**18**	**4.9b**	**46**	**3-88**	
IDC	III	11 11 42 06.6–.56	39.29N	142.85E	0	5.0,4.9			**¶16476345**
ISCJB	III	11 11 42 07.7–.37	39.32N–.04	142.88E–.07	18	4.9b,4.9			
NEIC	III	11 11 42 08.3–.29	39.32N	142.91E	10	4.9b,4.9			
JMA	III	11 11 42 09.5–.20	39.35N	142.82E	16–3	5.7,4.9			

ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.3km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.7km az=18.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.9km az=114.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 11 44 24.9–1.0 36.74N–.03 142.34E–.03 15–6 5.7b 1062 1-161
IDC III 11 11 44 22.0–.33 36.65N 142.40E 0 5.5,5.4 **¶17193807**
ISCJB III 11 11 44 22.5–.98 36.71N–.02 142.30E–.02 6–6 6.2s,5.7b
JMA III 11 11 44 23.0–.30 36.70N 142.45E 13 5.7,5.7b
BJI III 11 11 44 25.7 36.59N 142.03E 24 6.1b,6.0
MOS III 11 11 44 26.7–1.2 36.81N 142.23E 34 5.9b,6.0
NEIC III 11 11 44 28.3–.10 36.70N 142.24E 35 5.7b,6.0
ISC Event type se.
IDC Error ellipse: s-maj=11.2km s-min=8.8km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.3km az=110.2.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.6km az=142.0.
(228) Near east coast of eastern Honshu
ISC III 11 11 46 43.5–.55 36.07N–.03 141.10E–.04 24–3 5.5b 271 0-155
IDC III 11 11 46 39.7–.41 36.04N 141.17E 0 5.1,5.0 **¶16304963**
NEIC III 11 11 46 42.5–1.4 36.00N 141.17E 18–8 5.8b,5.0
MOS III 11 11 46 42.0–1.0 36.04N 141.13E 24 5.9b,5.0
ISCJB III 11 11 46 42.8–.61 36.05N–.02 141.17E–.04 31–4 6.0s,5.4b
BJI III 11 11 46 43.0 35.87N 141.12E 38 6.1,6.1s
JMA III 11 11 46 43.3–.10 36.06N 141.18E 41–2 5.4,6.1s
ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=10.2km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=112.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=9.1km s-min=5.1km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 11 48 21.1 36.66N 141.00E 43–1 3.6
¶602654010
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 11 49 29.9–.10 36.70N 140.66E 44–1 3.3
¶603049364
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 11 49 56.6–.10 36.61N 140.99E 41–1 3.6
¶602654006
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 11 51 04.3–.10 38.56N 141.85E 45–2 4.1
¶602654001
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 11 51 09.3–.10 36.06N 141.37E 49–2 4.2
¶16461321
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 11 53 26.3–.47 39.14N–.07 142.61E–.06 27 4.6b 67 2-149
IDC III 11 11 53 22.2–.51 39.14N 142.64E 0 4.6,4.6b **¶602653990**
NEIC III 11 11 53 23.7–1.8 39.15N 142.66E 10–11 4.7b,4.6b
ISCJB III 11 11 53 24.2–.33 39.12N–.04 142.64E–.06 27 4.6b,4.6b
JMA III 11 11 53 25.9–.10 39.20N 142.63E 21–2 4.9,4.6b
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=11.3km az=135.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=27.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 11 55 12.5–.20 38.53N 141.94E 39–3 3.9
¶603049367
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 11 56 13.2–.37 36.28N–.04 141.62E–.04 27–1 5.3b 664 1-155
MOS III 11 11 56 11.3–.92 36.27N 141.53E 22 5.6b **¶602707295**
BJI III 11 11 56 12.7 36.17N 141.72E 41 5.8s,5.7
ISCJB III 11 11 56 12.1–.84 36.21N–.03 141.60E–.02 28–5 5.9s,5.2b
NEIC III 11 11 56 13.2–1.1 36.27N 141.53E 23–7 5.5b,5.2b
JMA III 11 11 56 13.1–.10 36.28N 141.68E 40–4 5.3,5.2b
IDC III 11 11 56 14.2–.47 36.20N 141.60E 34–2 4.9,4.8
ISC Event type ke.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=112.9.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=179.6.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.9km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.0km s-min=9.4km az=130.0.
(228) Near east coast of eastern Honshu
ISC III 11 11 57 14.2–.41 39.18N–.04 142.25E–.04 32–2 5.3b 379 1-159
MOS III 11 11 57 13.3–.80 39.30N 142.12E 33 5.5b **¶17193815**
JMA III 11 11 57 14.1–.10 39.27N 142.31E 29–1 5.3
ISCJB III 11 11 57 14.5–.52 39.23N–.03 142.09E–.04 43–4 5.2b
IDC III 11 11 57 14.9–2.5 39.21N 142.22E 38–21 5.1,5.0
NEIC III 11 11 57 16.1–.48 39.20N 142.09E 44–4 5.3b,5.0
ISC Event type se.
MOS Error ellipse: s-maj=9.4km s-min=6.3km az=77.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=27.4.
IDC Error ellipse: s-maj=12.0km s-min=10.4km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=135.0. Recorded [4 JMA] in Iwate.
(229) Off east coast of Honshu
ISC III 11 11 58 52.9–.37 35.81N–.05 142.16E–.04 23 5.3b 131 2-151
IDC III 11 11 58 48.1–.59 35.70N 142.13E 0 5.6,5.6s **¶16476176**
ISCJB III 11 11 58 51.2–.25 35.77N–.04 142.06E–.04 23 5.4s,5.2b
MOS III 11 11 58 52.7–1.5 35.73N 142.06E 38 5.5b,5.2b
NEIC III 11 11 58 54.4–.24 35.75N 142.08E 35 5.6b,5.2b
JMA III 11 11 58 55.8–.40 37.92N 142.74E 30 5.4,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=15.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=15.5.
MOS Error ellipse: s-maj=10.7km s-min=7.6km az=114.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 12 00 36.8–.10 36.77N 141.11E 43–1 4.2
¶603049368
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 01 42.5–1.1 39.1N–.10 143.0E–.10 16 4.7b 19 2-78
ISCJB III 11 12 01 38.4–.93 39.17N–.08 143.3E–.20 10 4.7b **¶17193817**
IDC III 11 12 01 39.5–1.6 39.24N 143.19E 0 4.7,4.7b
NEIC III 11 12 01 44.4–.78 39.14N 143.21E 35 4.9b,4.7b
JMA III 11 12 01 45.5–.10 39.21N 142.58E 24–2 5.1,4.7b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=18.3km s-min=11.5km az=15.5.
IDC Error ellipse: s-maj=39.3km s-min=24.5km az=98.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.5km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 12 04 27.5–.10 38.38N 141.72E 49–1 3.7
¶602653980
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(243) Taiwan region
ISC III 11 12 05 50.2–.88 24.51N–.03 122.91E–.02 69–5 4.8b 167 0-49
IDC III 11 12 05 46.8–3.6 23.95N 123.38E 0 4.7,4.6 **¶16310114**
ISCJB III 11 12 05 49.8–.25 24.51N–.02 122.90E–.01 74–3 4.6b,4.6
JMA III 11 12 05 49.9–.10 24.54N 122.88E 73–1 3.8,4.6
TAP III 11 12 05 50.1 24.52N 122.89E 70–0 4.6L,4.6
NEIC III 11 12 05 50.5 24.49N 122.87E 59 4.8b,4.6

ISC Event type se.
IDC Error ellipse: s-maj=106.4km s-min=29.4km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=1.9km az=167.8.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP B.
NEIC Event type fe. Recorded [1 TAP] in Hualien and Yilan. After TAP.
(228) Near east coast of eastern Honshu
JMA III 11 12 06 53.3–.10 36.23N 140.77E 37–1 3.6
¶602653974
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 12 07 22.8–.20 38.60N 141.95E 37–2 3.6
¶603049370
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 12 10 16.7–.42 38.83N–.06 144.68E–.05 19 4.8b 139 3-148
IDC III 11 12 10 13.9–.50 38.90N 144.72E 0 4.7,4.6 **¶602653968**
ISCJB III 11 12 10 14.9–.28 38.82N–.04 144.61E–.04 19 4.7b,4.6
MOS III 11 12 10 16.9–1.2 38.90N 144.59E 33 5.2b,4.6
NEIC III 11 12 10 19.1–.32 38.90N 144.64E 35 5.0b,4.6
JMA III 11 12 10 57.9–.30 37.46N 142.32E 23 4.8,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.5km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=153.1.
MOS Error ellipse: s-maj=9.3km s-min=7.6km az=114.7.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.6km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 12 12 16.1–.20 38.39N 142.02E 32–3 3.8
¶603049372
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 12 53.4–.38 38.06N–.03 142.61E–.03 28–2 5.9b 1453 1-156
ISCJB III 11 12 12 49.4–.90 38.08N–.02 142.58E–.02 10–5 5.9s,5.8b **¶17193828**
BJI III 11 12 12 49.0 38.10N 142.50E 12 6.1b,6.1s
MOS III 11 12 12 51.8–.92 38.15N 142.56E 24 6.0b,5.8s
IDC III 11 12 12 52.3–5.5 38.02N 142.63E 20–34 5.7s,5.7
NEIC III 11 12 12 54.8–.07 38.06N 142.55E 35 5.9b,5.7
NIED III 11 12 13 00 37.10N 142.20E 41 5.9W,5.7
JMA III 11 12 13 03.0–.30 37.23N 142.22E 26 6.2,5.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=150.2.
MOS Error ellipse: s-maj=5.4km s-min=3.5km az=105.3.
IDC Error ellipse: s-maj=10.1km s-min=7.2km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=141.0. Recorded [4 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ32.00000°,λ177.00000°. NP2:ϕ_s328.00000°,δ88.00000°,λ58.00000°. $M_0$7.95000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 15 43.1–.49 39.08N–.03 142.27E–.05 32–3 5.7b 304 1-159
MOS III 11 12 15 41.8–.75 39.12N 142.28E 33 6.1b **¶17193830**
JMA III 11 12 15 42.0–.10 39.13N 142.41E 23–1 5.9
ISCJB III 11 12 15 43.5–.55 39.08N–.02 142.35E–.05 51–4 5.5b
IDC III 11 12 15 43.4–.52 39.09N 142.29E 32–3 5.4,5.2
NEIC III 11 12 15 45.3–.58 39.08N 142.26E 50–5 5.8b,5.2
ISC Event type se.
MOS Error ellipse: s-maj=11.0km s-min=6.2km az=126.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.2km az=5.8.
IDC Error ellipse: s-maj=10.0km s-min=8.1km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.6km az=94.0. Recorded [4 JMA] in Iwate and Miyagi.
(228) Near east coast of eastern Honshu
ISC III 11 12 17 36.8–1.3 37.1N–.20 143.0E–.20 21 4.8b 6 2-75
IDC III 11 12 17 33.4–2.2 37.12N 143.00E 0 5.0,4.9 **¶17193832**
ISCJB III 11 12 17 34.5–1.2 37.0N–.20 143.0E–.10 21 4.8b,4.9
JMA III 11 12 17 46.0–.40 38.14N 142.29E 46 4.8,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=104.9km s-min=28.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=30.0km s-min=15.1km az=12.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 20 37.7–.85 36.3N–.20 142.08E–.09 19 4.3b 14 1-147
IDC III 11 12 20 34.4–.74 36.42N 142.00E 0 4.6,4.3 **¶16476141**
JMA III 11 12 20 41.9–.20 36.33N 141.22E 43–3 3.8,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=19.7km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 21 17.4–2.1 37.37N–.05 141.44E–.07 8–11 4.6b 40 0-82
IDC III 11 12 21 11.8–.85 37.23N 142.48E 0 4.6,4.5 **¶17193835**
NEIC III 11 12 21 17.1–.66 37.22N 142.39E 35 4.9b,4.5
ISCJB III 11 12 21 18.7–1.0 37.34N–.03 141.58E–.06 30–6 4.5b,4.5
JMA III 11 12 21 21.8–.10 37.48N 141.30E 23–2 4.9,4.5
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=19.0km az=106.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=12.2km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=16.3.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 12 22 14.1–.68 39.20N–.09 142.5E–.10 27 4.7b 38 2-129
ISCJB III 11 12 22 12.1–.57 39.13N–.06 142.63E–.10 27 4.5b **¶17193837**
IDC III 11 12 22 15.2–.61 39.18N 142.54E 32–4 4.5,4.4
NEIC III 11 12 22 17.4–1.0 39.29N 142.67E 53–8 4.6b,4.4
JMA III 11 12 22 37.0–.40 37.43N 142.02E 26 4.3,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=35.9.
IDC Error ellipse: s-maj=18.4km s-min=14.6km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=7.5km az=121.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 24 36.2–.62 36.45N–.03 141.84E–.04 25–4 5.3b 792 1-151
IDC III 11 12 24 32.3–.40 36.49N 141.82E 0 5.0L,4.8 **¶17193839**
BJI III 11 12 24 34.8 36.35N 141.62E 28 5.4s,5.3
JMA III 11 12 24 35.2–.20 36.46N 141.87E 23 5.2,5.3
NEIC III 11 12 24 35.1–1.6 36.48N 141.75E 15–9 5.3b,5.3
MOS III 11 12 24 35.2–1.4 36.45N 141.78E 28 5.4b,5.3
ISCJB III 11 12 24 37.0–.39 36.42N–.02 141.78E–.02 42–3 5.3s,5.2b
ISC Event type se.
JMA Event type fe.
NEIC Event type se.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 12 28 44.1–.43 36.19N–.03 141.80E–.04 30–2 5.1b 428 1-148
IDC III 11 12 28 39.6–.44 36.25N 141.86E 0 4.8,4.7 **¶17193843**
JMA III 11 12 28 41.6–.20 36.20N 141.86E 23 5.1,4.7
BJI III 11 12 28 42.6 35.95N 141.46E 26 5.4s,5.2
ISCJB III 11 12 28 44.7–.43 36.16N–.02 141.71E–.03 44–3 5.2s,5.0b
MOS III 11 12 28 45.7–.78 36.76N 141.69E 31 5.4b,5.0b
NEIC III 11 12 28 45.9–.62 36.19N 141.71E 40–5 5.2b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.8km az=119.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.6km az=16.9.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=115.5.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.1km az=153.0.
(228) Near east coast of eastern Honshu
ISC III 11 12 33 14.9–.88 38.06N–.04 142.82E–.04 26–6 5.0b 304 2-151
JMA III 11 12 33 10.9–.30 38.07N 142.76E 10 5.1 **¶17193850**

IDC III 11 12 33 10.1–.49 38.08N 142.99E 0 4.7,4.6
BJI III 11 12 33 13.6 38.08N 142.88E 26 5.5,5.5s
MOS III 11 12 33 14.4–.97 38.21N 142.77E 30 5.2b,5.5s
ISCJB III 11 12 33 14.2–1.0 38.06N–.03 142.76E–.03 30–7 5.2s,5.0b
NEIC III 11 12 33 18.2–.61 38.06N 142.70E 51–5 5.4b,5.0b
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=113.0.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=109.2.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=136.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

JMA III 11 12 33 46.8–.10 35.91N 141.08E 22–1 3.5 ¶603049376

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 12 34 52.0 36.78N 140.58E 5–1 3.4 ¶603049377

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 12 35 36.6 36.79N 140.58E 5–1 4.1 ¶603049378

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 12 36 37.8–.10 36.36N 140.98E 37–2 3.9 ¶603049379

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 12 38 06.9–2.0 36.94N–.05 142.20E–.05 12–11 4.8b 61 1-151
IDC III 11 12 38 05.2–.69 36.96N 142.16E 0 4.7,4.6 **¶16476142**
ISCJB III 11 12 38 08.3–.97 36.90N–.04 142.23E–.06 35–8 4.7b,4.6
JMA III 11 12 38 09.3–.30 37.01N 142.18E 39 5.1,4.6
NEIC III 11 12 38 09.8–2.1 37.02N 142.16E 29–15 4.6b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=14.7km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=6.5km az=3.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=6.0km az=127.0. Recorded [2 JMA] in Ibaraki, Iwate, Miyagi and Tochigi.

(228) Near east coast of eastern Honshu

JMA III 11 12 40 18.0–.10 38.37N 141.80E 48–2 4.4 ¶603049380

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 12 41 54.3–.71 37.8N–.10 142.68E–.06 14 4.1b 22 1-145
ISCJB III 11 12 41 52.4–.60 37.80N–.09 142.82E–.06 14 4.1b **¶17193853**
JMA III 11 12 41 55.0–.30 38.01N 142.72E 12 4.6
IDC III 11 12 41 55.9–.91 37.88N 142.69E 24–5 4.2,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.6km az=177.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.2km s-min=15.8km az=95.0.

(228) Near east coast of eastern Honshu

ISC III 11 12 43 52.0–1.7 36.6N–.20 142.1E–.20 19 4.3b 5 1-57
IDC III 11 12 43 46.9–2.7 36.80N 142.60E 0 4.4,4.3L **¶602653945**
JMA III 11 12 43 56.9–.20 37.09N 141.69E 39–3 4.1,4.3L
ISC Event type ke.
IDC Error ellipse: s-maj=73.4km s-min=30.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 12 49 02.1–.23 36.17N–.03 141.67E–.03 34–0 5.6b,5.5s 1555 1-158
BJI III 11 12 48 59.7 36.11N 141.45E 21 5.8b,5.5s **¶16476167**
JMA III 11 12 49 00.1–.20 36.24N 141.76E 35–5 5.3,5.5s
ISCJB III 11 12 49 01.3–.39 36.14N–.02 141.62E–.02 38–3 5.6b,5.4s
MOS III 11 12 49 01.9–.93 36.22N 141.61E 41 5.8b,5.4s
IDC III 11 12 49 02.3–.34 36.16N 141.67E 32–2 5.3,5.2
NEIC III 11 12 49 02.6–.07 36.15N 141.60E 35 5.6b,5.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=136.6.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=116.5.
IDC Error ellipse: s-maj=9.7km s-min=8.4km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=145.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.

(228) Near east coast of eastern Honshu

JMA III 11 12 51 45.8–.10 36.34N 140.83E 35–1 3.9 ¶603049383

JMA Event type fe.

(227) Eastern Honshu

JMA III 11 12 51 59.3 36.99N 139.42E 8–1 2.5 ¶602653920

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 12 52 19.0–.10 36.21N 140.90E 45–1 3.9 ¶16461328

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 12 54 11.2–.10 36.46N 140.93E 32–1 4.1 ¶603049384

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 12 54 52.1–.33 38.53N–.04 142.16E–.04 44–2 5.4b,5.4s 1287 1-160
BJI III 11 12 54 47.0 38.42N 142.37E 36 5.6b,5.4s **¶17193865**
MOS III 11 12 54 50.2–.90 38.61N 142.01E 34 5.6b,5.4s
JMA III 11 12 54 51.3–.10 38.50N 142.15E 39–2 5.1,5.4s
ISCJB III 11 12 54 51.6–.38 38.51N–.02 142.03E–.02 49–3 5.5s,5.4b
NEIC III 11 12 54 53.2–.38 38.50N 141.98E 51–3 5.4b,5.4b
IDC III 11 12 54 53.5–1.8 38.49N 142.06E 54–15 5.2,5.0
ISC Event type se.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=100.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=155.5.
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.0km az=137.0.
IDC Error ellipse: s-maj=10.9km s-min=9.1km az=109.0.

(229) Off east coast of Honshu

ISC III 11 12 56 03.8–.31 37.77N–.04 142.01E–.04 25–1 5.4b 187 1-151
JMA III 11 12 56 03.6–.20 37.79N 142.05E 29–5 5.3 **¶602653906**
ISCJB III 11 12 56 03.1–1.5 37.71N–.03 142.08E–.04 31–11 5.2b
MOS III 11 12 56 04.4–.92 37.95N 141.95E 33 5.8b
IDC III 11 12 56 05.2–.57 37.79N 142.06E 34–3 4.9,4.8
NEIC III 11 12 56 05.3–.17 37.80N 141.96E 35 5.5b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=139.5.
MOS Error ellipse: s-maj=12.2km s-min=9.1km az=84.5.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.9km az=125.0.

(228) Near east coast of eastern Honshu

ISC III 11 12 59 19.1–.51 36.13N–.04 141.80E–.04 16–2 5.2b 482 1-154
JMA III 11 12 59 18.9–.20 36.15N 141.91E 35 5.3 **¶602653895**
BJI III 11 12 59 18.6 35.92N 141.59E 23 5.8b,5.5s
ISCJB III 11 12 59 19.7–.15 36.10N–.03 141.72E–.02 28 5.2b,5.5s
IDC III 11 12 59 20.5–.65 36.12N 141.86E 27–4 5.0,4.9
MOS III 11 12 59 21.8–.89 36.63N 141.74E 29 5.5b,4.9
NEIC III 11 12 59 22.3–.14 36.15N 141.69E 35 5.2b,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=169.2.
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=136.0.
MOS Error ellipse: s-maj=7.3km s-min=4.7km az=112.4.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=159.0.

(229) Off east coast of Honshu

ISC III 11 13 02 41.0–.81 36.62N–.04 142.03E–.05 26–5 5.1b 188 1-146
IDC III 11 13 02 37.1–.59 36.56N 142.05E 0 4.8,4.7 **¶602653887**
ISCJB III 11 13 02 39.7–1.2 36.56N–.03 142.09E–.03 31–8 5.1s,5.0b
JMA III 11 13 02 39.9–.20 36.57N 142.12E 55 4.8,5.0b
BJI III 11 13 02 40.5 36.57N 141.63E 21 5.8b,5.4
MOS III 11 13 02 40.9–.98 36.62N 142.03E 39 5.4b,5.4
NEIC III 11 13 02 43.2–.90 36.54N 141.98E 42–8 5.3b,5.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.1km s-min=12.9km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.3km az=146.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=5.9km az=129.1.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.5km az=51.0.

(228) Near east coast of eastern Honshu

ISC III 11 13 05 15.0–.85 36.40N–.06 141.43E–.07 26 4.2b 18 1-75
IDC III 11 13 05 06.1–.81 35.42N 141.53E 0 4.4,4.2 **¶17193869**
JMA III 11 13 05 13.4–.30 36.40N 141.63E 28 4.2,4.2
ISCJB III 11 13 05 13.5–.69 36.41N–.05 141.61E–.06 26 4.2b,4.2
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 13 06 03.1–.30 38.98N 142.37E 33–4 4.0 ¶602653877

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 13 08 12.5–.51 39.12N–.05 142.65E–.06 25–3 4.5b 76 2-88
ISCJB III 11 13 08 11.1–.37 39.09N–.03 142.74E–.05 30 4.5b **¶602653872**
JMA III 11 13 08 12.7–.10 39.18N 142.57E 26–2 4.8
IDC III 11 13 08 13.3–.46 39.10N 142.54E 30–3 4.5,4.5
NEIC III 11 13 08 14.1–.91 39.17N 142.60E 36–8 4.7b,4.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.8km az=41.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=5.5km az=110.0. Recorded [2 JMA] in Aomori, Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC III 11 13 09 44.7–1.8 36.63N–.09 141.0E–.10 41–11 4.4b 23 0-74
IDC III 11 13 09 25.4–4.1 34.52N 141.54E 0 4.6L,4.5 **¶603049386**
ISCJB III 11 13 09 43.9–1.2 36.63N–.07 141.0E–.10 51–6 4.2b,4.5
JMA III 11 13 09 44.8–.10 36.63N 140.99E 46–1 4.1,4.5
ISC Event type fe.
IDC Error ellipse: s-maj=96.9km s-min=31.6km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=7.5km az=36.2.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 13 13 03.0–.10 37.28N 141.79E 37–3 3.8 ¶603049387

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 13 15 14.9–.40 36.27N 140.89E 51–3 2.9 ¶16449451

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 13 15 44.1–.81 37.35N–.05 141.96E–.04 30–5 5.2b 704 1-146
IDC III 11 13 15 39.2–.51 37.21N 141.97E 0 5.0,5.0b **¶16310118**
BJI III 11 13 15 40.3 37.13N 142.20E 32 5.6b,5.5s
JMA III 11 13 15 43.3–.20 37.31N 141.93E 26–3 5.2,5.5s
ISCJB III 11 13 15 43.9–.52 37.35N–.03 141.95E–.03 37–4 5.1b,4.9s
MOS III 11 13 15 44.1–.88 37.61N 141.95E 30 5.5b,4.9s
NEIC III 11 13 15 47.0–.77 37.38N 141.88E 53–7 5.1b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=10.9km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=171.1.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=110.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.4km az=167.0.

(228) Near east coast of eastern Honshu

ISC III 11 13 16 48.7–.50 36.40N–.03 141.84E–.03 30–3 5.9s,5.7b 1140 1-161
NIED III 11 13 16 00 36.40N 141.90E 17 5.7W,5.7b **¶16304982**
IDC III 11 13 16 44.4–.30 36.41N 141.86E 0 5.4s,5.4
BJI III 11 13 16 47.2 36.22N 141.57E 25 6.0b,5.9s
ISCJB III 11 13 16 47.9–.07 36.34N–.02 141.84E–.01 33 5.9s,5.7b
MOS III 11 13 16 47.9–1.0 36.39N 141.90E 38 6.0s,5.9b
JMA III 11 13 16 48.6–.20 36.43N 141.84E 28 5.7,5.9b
NEIC III 11 13 16 51.5–.71 36.37N 141.74E 58–6 5.6b,5.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ12.00000°,λ-170.00000°. NP2:ϕ_s191.00000°,δ88.00000°,λ-78.00000°. $M_0$3.80000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=162.0.
MOS Error ellipse: s-maj=6.6km s-min=3.9km az=116.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=122.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC III 11 13 20 57.6–.74 36.41N–.09 141.92E–.07 19 4.5b 16 1-147
IDC III 11 13 20 54.7–.72 36.33N 142.12E 0 4.7,4.5b **¶16449453**
ISCJB III 11 13 20 56.1–.61 36.44N–.07 142.03E–.07 19 4.4b,4.5b
JMA III 11 13 20 58.9–.30 36.47N 141.86E 63 4.4,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=19.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.8km az=158.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 13 22 07.7–.61 36.38N–.06 141.94E–.06 19 4.4b 38 1-147
ISCJB III 11 13 22 05.6–.49 36.35N–.05 141.99E–.06 19 4.4b **¶17193878**
NEIC III 11 13 22 05.8–4.6 36.37N 141.89E 7–28 4.5b
IDC III 11 13 22 05.2–.68 36.41N 141.84E 0 4.6,4.4
JMA III 11 13 22 09.4–.20 36.47N 141.78E 80 4.4,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.7km az=148.6.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.7km az=98.0.
IDC Error ellipse: s-maj=19.5km s-min=18.3km az=67.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 13 23 40.5–.48 37.39N–.04 141.47E–.05 26–3 4.5b 74 0-146
ISCJB III 11 13 23 38.2–.83 37.38N–.03 141.58E–.05 24–5 4.4b **¶16449457**
NEIC III 11 13 23 40.8–.52 37.42N 141.48E 27–3 4.0b
JMA III 11 13 23 40.4–.10 37.40N 141.46E 30–2 4.5
IDC III 11 13 23 41.1–.43 37.39N 141.44E 26–2 4.4,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=25.8.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.8km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=11.1km az=87.0.

(228) Near east coast of eastern Honshu

JMA III 11 13 26 42.2–.30 35.85N 140.91E 36–3 3.3 ¶603049391

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 13 29 09.5–.10 37.10N 141.12E 51–1 3.8 ¶603049392

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 13 29 12.2–.67 36.99N–.09 142.18E–.08 19 4.2b 40 3-90
IDC III 11 13 29 09.1–.92 36.90N 142.23E 0 4.4,4.2 **¶602653834**
ISCJB III 11 13 29 10.4–.53 37.03N–.07 142.16E–.06 19 4.2b,4.2

NEIC III 11 13 29 11.3–3.7 37.00N 142.18E 13–23 4.4b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=14.2km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.8km az=151.4.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=6.9km az=134.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
JMA III 11 13 29 29.0 36.42N 141.05E 37–1 3.4 ¶602653832
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 13 29 42.0–.10 36.01N 141.08E 30–2 4.1 ¶17193880
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 13 31 50.1–2.0 36.44N–.04 141.94E–.07 4–11 4.5b 50 1-68
IDC III 11 13 31 45.7–10.0 36.85N 142.56E 0 4.5,4.4b **¶602653278**
ISCJB III 11 13 31 50.2–.62 36.38N–.03 142.02E–.05 10 4.4b,4.4b
JMA III 11 13 31 54.6–.20 36.45N 141.86E 46 4.6,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=235.4km s-min=28.9km az=30.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.8km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 13 33 30.9–.10 37.26N 141.09E 34–1 4.5 ¶603049394
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 13 34 34.7–.75 36.26N–.03 141.87E–.04 31–4 5.5b 609 1-152
NEIC III 11 13 34 30.6–2.4 36.16N 141.84E 5–15 5.5b **¶17193882**
MOS III 11 13 34 32.5–1.1 36.26N 141.88E 27 5.7b,5.6s
JMA III 11 13 34 32.9–.30 36.29N 141.93E 23 5.6,5.6s
BJI III 11 13 34 33.2 36.22N 141.52E 20 5.8b,5.7s
ISCJB III 11 13 34 33.3–.92 36.25N–.02 141.87E–.02 30–6 5.6s,5.4b
IDC III 11 13 34 35.3–3.5 36.25N 141.90E 33–26 5.2,5.2s
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=124.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=116.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.0km az=42.5.
IDC Error ellipse: s-maj=11.8km s-min=8.7km az=93.0.
(228) Near east coast of eastern Honshu
JMA III 11 13 35 37.0–.10 36.91N 141.06E 49–1 4.2 ¶603049395
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 13 36 23.2–.10 36.93N 141.11E 48–1 3.8 ¶602653270
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 13 36 56.5–.10 36.83N 141.03E 31–1 4.6 ¶602653266
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(162) South Island
WEL III 11 13 37 10.2–.09 43.59S 172.72E 9–0 4.2L ¶16309750
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(228) Near east coast of eastern Honshu
ISC III 11 13 38 39.9–1.5 37.71N–.08 141.8E–.10 24 4.3b 16 1-74
IDC III 11 13 38 33.1–14 37.04N 141.73E 0 4.5,4.5 **¶602653263**
JMA III 11 13 38 42.2–.20 37.69N 141.69E 38–4 4.2,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=390.5km s-min=83.9km az=178.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 13 40 01.7–.30 36.13N 141.16E 32–5 3.6 ¶602653262
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 13 42 22.7–1.7 37.34N–.04 142.12E–.04 5–10 5.3s,4.9b 532 1-146
IDC III 11 13 42 22.2–.50 37.30N 142.10E 0 5.1s,5.1 **¶17193890**
ISCJB III 11 13 42 24.6–.76 37.37N–.02 142.12E–.02 22–5 5.3s,4.9b
MOS III 11 13 42 25.1–1.2 37.42N 142.10E 29 5.2b,4.9b
JMA III 11 13 42 25.2–.30 37.37N 142.05E 20–4 4.8,4.9b
NEIC III 11 13 42 27.2–.62 37.34N 142.06E 33–4 5.0b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=11.3km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=157.6.
MOS Error ellipse: s-maj=7.8km s-min=5.8km az=108.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=165.0.
(229) Off east coast of Honshu
ISC III 11 13 43 10.7–.36 39.01N–.04 144.23E–.04 31–2 5.6b 1292 3-158
IDC III 11 13 43 06.0–.35 38.91N 144.22E 0 5.6s,5.5 **¶602707297**
JMA III 11 13 43 07.9–.60 39.02N 144.22E 39 5.7,5.5
ISCJB III 11 13 43 08.7–.09 39.02N–.02 144.21E–.02 28 5.9s,5.5b
BJI III 11 13 43 09.2 39.06N 143.98E 20 6.1b,5.9s
NEIC III 11 13 43 09.6–1.5 38.99N 144.13E 25–10 5.7b,5.9s
MOS III 11 13 43 10.2–1.2 38.94N 144.15E 41 5.9b,5.8s
ISC Event type ke.
IDC Error ellipse: s-maj=10.5km s-min=9.1km az=113.0.
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=161.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.4km az=145.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=107.6.
(228) Near east coast of eastern Honshu
JMA III 11 13 46 49.4–.10 37.44N 141.47E 26–2 4.1 ¶602653254
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 13 47 40.8–.94 36.91N–.03 141.21E–.06 46–8 4.7b 103 0-151
IDC III 11 13 47 34.3–.63 36.93N 141.05E 0 5.3L,4.8 **¶602653249**
ISCJB III 11 13 47 39.8–.49 36.89N–.02 141.24E–.05 54–3 4.7b,4.8
JMA III 11 13 47 41.3–.10 36.93N 141.11E 50–1 4.7,4.8
NEIC III 11 13 47 42.8–.80 36.87N 141.15E 66–7 5.0b,4.8
ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=15.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=6.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.7km az=66.0.
(228) Near east coast of eastern Honshu
ISC III 11 13 48 26.6–.78 36.7N–.10 142.00E–.06 19 5.0b 33 1-92
IDC III 11 13 48 22.4–2.2 36.56N 142.26E 0 4.7,4.6 **¶16476428**
ISCJB III 11 13 48 29.0–.60 36.9N–.10 141.81E–.07 33 4.9b,4.6
JMA III 11 13 48 28.1–.50 36.41N 141.88E 55 4.7,4.6
NEIC III 11 13 48 29.4–.57 36.64N 141.88E 35 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=60.1km s-min=23.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=6.5km az=164.6.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=10.6km az=175.0.
(229) Off east coast of Honshu
ISC III 11 13 48 37.3–.50 38.43N–.04 143.23E–.05 26–3 5.3b 727 4-144
IDC III 11 13 48 33.3–.47 38.34N 143.17E 0 5.0,4.9 **¶17193892**
MOS III 11 13 48 36.7–1.1 38.45N 143.13E 33 5.4b,4.9
ISCJB III 11 13 48 36.1–.14 38.39N–.03 143.10E–.03 28 5.2b,4.9
BJI III 11 13 48 37.1 38.40N 143.10E 25 5.7b,5.4s
NEIC III 11 13 48 37.8–1.5 38.37N 143.12E 33–10 5.3b,5.4s
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.7km az=137.0.
MOS Error ellipse: s-maj=7.1km s-min=4.2km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=165.3.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=142.0. Recorded [3 JMA] in Fukushima and Ibaraki.
(228) Near east coast of eastern Honshu
JMA III 11 13 51 48.3–.10 36.41N 141.04E 44–1 4.1 ¶602653241
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 13 52 09.4–.80 36.68N–.04 141.87E–.05 24–5 4.5b 82 1-147
ISCJB III 11 13 52 08.8–.69 36.63N–.03 141.95E–.05 36–6 4.5b **¶600539622**
IDC III 11 13 52 09.8–.80 36.66N 141.84E 26–5 4.5,4.5
JMA III 11 13 52 10.5–.20 36.67N 141.83E 45 4.9,4.5
NEIC III 11 13 52 10.2–1.8 36.66N 141.89E 31–12 4.5b,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=13.6.
IDC Error ellipse: s-maj=15.7km s-min=13.4km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.7km az=137.0.
(228) Near east coast of eastern Honshu
ISC III 11 13 53 35.0–2.5 36.43N–.04 141.98E–.07 4–15 4.3b 33 1-90
IDC III 11 13 53 34.2–.81 36.38N 142.06E 0 4.7L,4.4 **¶16449466**
JMA III 11 13 53 39.1–.20 36.40N 141.82E 58–4 4.5,4.4
NEIC III 11 13 53 39.5–.47 36.38N 141.97E 35 4.2b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=19.7km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.3km az=116.0.
(228) Near east coast of eastern Honshu
ISC III 11 13 54 38.3–.71 37.70N–.09 142.69E–.08 21 4.3b 25 2-89
IDC III 11 13 54 35.5–1.9 37.76N 142.79E 0 4.4,4.3 **¶16476430**
ISCJB III 11 13 54 36.8–.60 37.66N–.08 142.66E–.09 21 4.2b,4.3
NEIC III 11 13 54 36.8–6.2 37.67N 142.73E 11–39 4.0b,4.3
JMA III 11 13 54 46.9–.20 38.63N 142.34E 31–3 4.4,4.3
ISC Event type se.
IDC Error ellipse: s-maj=48.0km s-min=22.3km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.8km az=3.3.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=13.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 13 55 26.3–.49 37.98N–.05 142.92E–.05 25–3 5.3b 1008 4-154
ISCJB III 11 13 55 26.1–.12 38.06N–.03 142.86E–.02 29 5.2b **¶16476432**
MOS III 11 13 55 26.0–1.1 38.01N 142.99E 33 5.5b
IDC III 11 13 55 27.8–3.4 37.92N 142.94E 33–25 5.1,5.0
BJI III 11 13 55 28.4 38.06N 142.73E 53 5.6b,5.4
NEIC III 11 13 55 28.9–.62 38.00N 142.90E 47–5 5.2b,5.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.1km az=162.7.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=100.9.
IDC Error ellipse: s-maj=11.4km s-min=9.7km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=145.0. Recorded [3 JMA] in Fukushima, Iwate and Miyagi.
(228) Near east coast of eastern Honshu
ISC III 11 13 56 03.5–1.8 37.61N–.06 142.0E–.10 43–15 5.3b 71 1-160
IDC III 11 13 55 54.9–.48 37.21N 142.15E 0 5.3,5.2 **¶17193896**
ISCJB III 11 13 55 59.3–1.0 37.34N–.05 142.20E–.07 36–8 5.2b,5.2
NEIC III 11 13 56 01.6–.96 37.22N 142.14E 48–9 5.1b,5.2
JMA III 11 13 56 05.6–.20 37.67N 141.72E 46–3 5.3,5.2
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=12.5km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.5km az=30.2.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.9km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 13 58 47.2–.75 36.66N–.03 141.80E–.04 18–3 5.0b 209 1-151
ISCJB III 11 13 58 47.7–.19 36.61N–.03 141.89E–.02 33 4.9b **¶16304990**
JMA III 11 13 58 48.6–.10 36.69N 141.84E 36–3 5.1
MOS III 11 13 58 49.6–1.0 36.97N 141.80E 33 5.3b
NEIC III 11 13 58 50.2–.74 36.64N 141.76E 42–6 4.9b
IDC III 11 13 58 50.5–2.2 36.62N 141.75E 41–20 4.7,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=178.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=10.0km s-min=7.4km az=115.8.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.8km az=136.0.
IDC Error ellipse: s-maj=15.0km s-min=11.0km az=94.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 00 36.8–.34 36.16N–.03 140.98E–.03 35–1 5.5b,5.4s 784 0-162
BJI III 11 14 00 33.0 36.00N 141.23E 37 5.8b,5.4s **¶16304991**
MOS III 11 14 00 34.5–1.0 36.17N 140.90E 26 5.8b,5.3s
JMA III 11 14 00 37.2 36.15N 140.88E 43–1 5.4,5.3s
ISCJB III 11 14 00 37.0–.29 36.13N–.02 140.90E–.02 48–2 5.4s,5.4b
NEIC III 11 14 00 38.6–.50 36.12N 140.76E 51–4 5.5b,5.4s
IDC III 11 14 00 38.2–.44 36.11N 140.86E 42–3 5.1,5.0
ISC Event type se.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=107.6.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=41.9.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=141.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=9.7km s-min=7.0km az=105.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 03 16.0–.10 36.42N 141.05E 38–1 3.8 ¶602653232
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 14 04 48.5–1.8 36.87N–.05 141.94E–.05 15–11 4.4b 48 1-90
IDC III 11 14 04 46.0–.63 36.79N 142.21E 0 4.5,4.4 **¶16449467**
NEIC III 11 14 04 47.4–.43 36.80N 142.21E 10 4.2b,4.4
ISCJB III 11 14 04 48.2–1.8 36.84N–.04 142.08E–.05 27–13 4.3b,4.4
JMA III 11 14 04 52.1–.30 36.99N 141.75E 40–3 4.4,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=12.9km az=137.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.4km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.5km az=32.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 05 35.6–.63 36.36N–.06 141.67E–.06 26 4.2b 25 1-147
IDC III 11 14 05 31.3–.62 36.23N 141.63E 0 4.4,4.2 **¶17193901**
ISCJB III 11 14 05 33.9–.53 36.33N–.05 141.80E–.05 26 4.1b,4.2
JMA III 11 14 05 37.2–.10 36.37N 141.64E 56–4 4.2,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=16.9km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.4km az=24.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 07 37.9–.58 39.20N–.07 142.41E–.07 27 4.2b 38 2-149
IDC III 11 14 07 34.0–.70 39.21N 142.47E 0 4.3,4.2 **¶16449468**
ISCJB III 11 14 07 35.9–.43 39.16N–.05 142.39E–.09 27 4.2b,4.2
NEIC III 11 14 07 36.8–3.3 39.17N 142.38E 19–20 4.2b,4.2
JMA III 11 14 07 39.9–.10 39.24N 142.39E 29–1 4.4,4.2
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=17.7km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.0km az=19.7.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.8km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 08 41.7–.10 36.66N 140.98E 44–1 3.4 ¶603049402
JMA Event type fe.

(228) Near east coast of eastern Honshu
ISC III 11 14 10 36.9–.41 37.50N–.03 142.01E–.04 20–3 5.2b,4.9s 540 1-156
IDC III 11 14 10 34.0–.39 37.51N 142.04E 0 5.2,5.1 ¶602653221
BJI III 11 14 10 34.9 37.50N 142.17E 28 5.7b,5.2s
NEIC III 11 14 10 37.2–.71 37.50N 141.94E 22–5 5.2b,5.2s
JMA III 11 14 10 38.8–.20 37.50N 142.00E 31–4 5.2,5.2s
MOS III 11 14 10 38.4–1.0 37.73N 141.97E 33 5.5b,5.2s
ISCJB III 11 14 10 38.5–.43 37.58N–.03 142.01E–.03 40–3 5.1b,4.9s
ISC Event type ke.
NEIC Event type fe. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 14 13 04.6–.20 38.36N 142.07E 32 4.3
¶603049403
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 14 55.6–.94 36.93N–.04 140.94E–.06 10 4.2b 18 0-147
JMA III 11 14 14 53.1–.10 36.89N 141.05E 49–1 4.1 ¶17193904
ISCJB III 11 14 14 55.2–.72 36.94N–.04 140.95E–.06 10 4.1b
IDC III 11 14 14 55.2–1.4 36.28N 141.93E 0 4.4,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=22.2.
IDC Error ellipse: s-maj=52.9km s-min=20.7km az=167.0.
(502) Arkansas
ISC III 11 14 18 28.2–1.4 35.29N–.03 92.38W–.05 4–13 34 1-5
NEIC III 11 14 18 28.0 35.27N 92.34W 4 2.6 ¶16930186
ISC Event type fe.
NEIC Event type fe. Felt at Cabot and Conway. After CERI.
(228) Near east coast of eastern Honshu
JMA III 11 14 18 52.9–.10 36.65N 140.98E 44–1 3.1
¶603049404
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 14 19 06.7–.37 36.25N–.03 141.68E–.05 26 4.6b 177 1-147
IDC III 11 14 19 03.1–.45 36.23N 141.70E 0 4.5,4.4 ¶602653210
NEIC III 11 14 19 04.1–2.5 36.21N 141.69E 9–15 4.8b,4.4
ISCJB III 11 14 19 05.0–.20 36.19N–.03 141.78E–.03 26 4.6b,4.4
JMA III 11 14 19 06.2–.30 36.27N 141.85E 35 4.6,4.4
MOS III 11 14 19 06.4–.99 36.30N 141.68E 33 4.9b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=110.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.5km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.8km az=163.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=7.1km az=114.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 20 03.1–.10 36.63N 140.97E 43–1 3.2
¶603049405
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 25 42.5–.20 38.33N 141.82E 40–4 3.7
¶602653067
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 14 26 25.4–.81 39.1N–.10 143.22E–.07 16 4.3b 40 2-149
IDC III 11 14 26 20.6–.52 38.62N 143.26E 0 4.3,4.3 ¶603145336
ISCJB III 11 14 26 24.4–.68 39.25N–.10 143.29E–.09 16 4.2b,4.3
JMA III 11 14 26 27.8–.30 39.69N 143.44E 1 5.0,4.3
ISC Event type fe.
IDC Error ellipse: s-maj=14.1km s-min=12.8km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=9.2km az=16.9.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 26 31.2–.39 37.38N–.05 142.44E–.04 21 5.3s,5.0b 239 1-146
BJI III 11 14 26 26.5 37.53N 142.79E 13 5.4b,5.3 ¶602653054
ISCJB III 11 14 26 30.0–.19 37.41N–.03 142.43E–.03 21 5.6s,5.0b
MOS III 11 14 26 31.5–1.2 37.39N 142.44E 33 5.3b,5.0b
NEIC III 11 14 26 33.9–.81 37.41N 142.38E 38–7 5.0b,5.0b
JMA III 11 14 26 53.6–.10 36.63N 141.04E 43–1 4.8,5.0b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=152.3.
MOS Error ellipse: s-maj=9.7km s-min=7.6km az=98.7.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=4.7km az=130.0.
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 11 14 27 40.4–.33 37.05N–.05 143.93E–.06 35 5.2b 358 5-153
IDC III 11 14 27 35.7–.40 37.09N 143.94E 0 5.0,4.9 ¶16304996
ISCJB III 11 14 27 39.0–.19 37.04N–.03 143.95E–.04 33 5.7s,5.1b
MOS III 11 14 27 39.6–1.1 37.18N 143.89E 33 5.5b,5.1b
NEIC III 11 14 27 40.5–.18 37.05N 143.96E 35 5.4b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=10.3km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=143.7.
MOS Error ellipse: s-maj=8.9km s-min=5.2km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=138.0. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
(228) Near east coast of eastern Honshu
ISC III 11 14 28 49.2–.65 38.27N–.07 142.05E–.07 41 4.9b 40 1-146
NIED III 11 14 28 00 38.30N 142.00E 29 5.3W ¶17193915
IDC III 11 14 28 43.3–1.0 38.25N 142.00E 0 5.0,4.9
ISCJB III 11 14 28 47.6–.53 38.29N–.06 142.13E–.06 41 4.8b,4.9
JMA III 11 14 28 49.9–.20 38.33N 142.03E 42–2 4.9,4.9
NEIC III 11 14 28 50.9–1.5 38.24N 141.89E 54–15 4.3b,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s117.00000°,δ43.00000°,λ24.00000°. NP2:ϕ_s9.00000°,δ73.00000°,λ131.00000°. $M_0$1.06000×10^{17}
IDC Error ellipse: s-maj=27.9km s-min=21.2km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.2km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.2km s-min=12.7km az=217.0. Recorded [2 JMA] in Chiba, Fukushima, Iwate and Miyagi.
(226) Near west coast of eastern Honshu
JMA III 11 14 28 59.6 37.65N 138.62E 22–1 3.2
¶603049406
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 14 30 57.8–.84 38.12N–.08 142.42E–.08 35 4.3b 25 1-89
IDC III 11 14 30 50.1–.78 37.71N 142.23E 0 4.5,4.4 ¶17193917
ISCJB III 11 14 30 56.3–.66 38.16N–.06 142.46E–.06 35 4.4b,4.4
JMA III 11 14 30 57.3–.30 38.28N 142.35E 29 5.0,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.4km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.2km az=148.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 31 22.6–.10 36.25N 140.96E 44–1 3.6
¶603049410
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 31 58.8–.49 36.03N–.05 141.36E–.06 26 4.6b 56 1-152
IDC III 11 14 31 54.8–.57 35.96N 141.59E 0 4.6,4.5 ¶600539690
ISCJB III 11 14 31 56.8–.36 35.93N–.04 141.55E–.05 26 4.5b,4.5
JMA III 11 14 31 58.5–.20 36.04N 141.28E 26–3 4.6,4.5
NEIC III 11 14 31 59.6–.41 35.88N 141.50E 35 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.7km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.5km az=137.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.8km az=56.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 38 27.4–.59 39.14N–.04 143.04E–.07 16 4.4b 46 2-88
ISCJB III 11 14 38 25.5–.40 39.09N–.03 143.09E–.05 16 4.4b ¶17193929
IDC III 11 14 38 25.7–1.0 39.25N 142.98E 0 4.5,4.5L
JMA III 11 14 38 27.0–.20 39.21N 142.95E 10–3 5.0,4.5L
NEIC III 11 14 38 29.0–2.9 39.12N 143.00E 26–22 4.5b,4.5L
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=30.1.
IDC Error ellipse: s-maj=26.0km s-min=14.8km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.7km az=148.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 42 17.2–.79 39.59N–.07 142.9E–.10 18 4.3b 13 3-149
IDC III 11 14 42 14.2–.86 39.54N 142.95E 0 4.4,4.2 ¶17193934
ISCJB III 11 14 42 15.8–.73 39.59N–.05 142.9E–.10 18 4.2b,4.2
JMA III 11 14 42 21.6–.30 39.61N 142.56E 32–4 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=22.6km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.8km az=3.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 44 08.9–.40 36.67N–.03 140.99E–.04 44–3 5.1b 548 0-152
NIED III 11 14 44 00 36.60N 141.00E 47 4.9W ¶17193938
BJI III 11 14 44 01.8 36.55N 141.30E 25 5.5b,5.2s
MOS III 11 14 44 08.0–.83 36.89N 140.89E 37 5.5b,5.2s
ISCJB III 11 14 44 09.2–.29 36.66N–.02 140.88E–.03 56–2 5.9s,5.1b
IDC III 11 14 44 09.3–.39 36.65N 140.90E 44–3 5.0,4.8
JMA III 11 14 44 09.4 36.65N 140.98E 47–1 4.9,4.8
NEIC III 11 14 44 11.1–.58 36.67N 140.80E 59–5 5.1b,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ23.00000°,λ98.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ86.00000°. $M_0$2.27000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=109.8.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=42.1.
IDC Error ellipse: s-maj=9.7km s-min=6.9km az=103.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=149.0. Recorded [4 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
ISC III 11 14 45 51.2–.85 37.3N–.20 142.4E–.10 21 4.4b 13 1-146
IDC III 11 14 45 47.9–.86 37.29N 142.40E 0 4.5,4.4 ¶17193940
ISCJB III 11 14 45 49.2–.70 37.2N–.10 142.5E–.10 21 4.3b,4.4
JMA III 11 14 46 09.2–.20 38.37N 141.67E 49–2 3.6,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=22.5km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=22.8km s-min=11.1km az=33.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 49 07.4–.10 36.40N 140.92E 35–1 4.0
¶602653008
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 14 51 14.8–2.5 37.04N–.05 141.5E–.10 24–15 4.1b 30 1-90
IDC III 11 14 51 08.2–.99 36.44N 141.49E 0 4.3,4.1 ¶16476482
ISCJB III 11 14 51 13.1–1.2 37.03N–.05 141.63E–.06 21–6 4.1b,4.1
JMA III 11 14 51 15.8–.20 37.06N 141.47E 39–2 4.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=25.0km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=7.7km az=33.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 14 54 01.3–.76 35.91N–.03 141.95E–.04 19–3 5.3b 852 1-154
IDC III 11 14 53 58.7–.38 35.93N 141.94E 0 5.0,5.0 ¶17193953
JMA III 11 14 53 58.2–.40 36.01N 142.14E 13 5.4,5.0
NEIC III 11 14 53 59.7–2.4 35.97N 141.90E 9–14 5.3b,5.0
ISCJB III 11 14 54 01.0–.75 35.95N–.02 141.94E–.02 23–5 5.6s,5.2b
MOS III 11 14 54 01.0–1.2 35.97N 141.96E 26 5.5b,5.2b
BJI III 11 14 54 02.3 35.97N 141.64E 25 5.6b,5.6s
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=9.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=133.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=157.2.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=111.1.
(228) Near east coast of eastern Honshu
ISC III 11 14 56 14.9–.62 36.00N–.03 141.52E–.03 28–4 5.7b,5.6s 1393 1-161
NIED III 11 14 56 00 36.10N 141.60E 26 5.6W,5.6s ¶16304999
IDC III 11 14 56 10.8–.32 36.02N 141.44E 0 5.5b,5.5
NEIC III 11 14 56 11.9–2.0 35.96N 141.40E 10–12 5.8b,5.5
ISCJB III 11 14 56 12.7–.63 35.95N–.02 141.54E–.02 21–4 5.7b,5.6s
BJI III 11 14 56 13.0 35.97N 141.38E 24 5.7s,5.6b
JMA III 11 14 56 13.8–.20 35.97N 141.57E 31–4 5.8,5.6b
MOS III 11 14 56 13.1–1.2 36.05N 141.58E 24 6.0b,5.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ30.00000°,λ-84.00000°. NP2:ϕ_s86.00000°,δ60.00000°,λ-93.00000°. $M_0$2.72000×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=9.2km az=97.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=165.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=3.7km az=105.2.
(228) Near east coast of eastern Honshu
JMA III 11 14 57 43.6–.10 37.04N 141.14E 50–1 3.7
¶602652986
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 58 16.4–.20 36.19N 141.46E 48–5 4.1
¶602652983
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 14 59 01.4–.20 37.06N 141.30E 56–2 4.1
¶603049418
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 01 38.5–.43 39.04N–.04 142.52E–.05 37–1 4.9b 305 2-155
NIED III 11 15 01 00 39.00N 142.50E 29 4.8W ¶16449483
BJI III 11 15 01 34.0 38.92N 142.65E 26 5.3b,5.1s
MOS III 11 15 01 37.5–1.0 39.16N 142.46E 35 5.2b,5.1s
ISCJB III 11 15 01 38.9–.46 39.02N–.02 142.42E–.03 53–4 5.0s,4.9b
JMA III 11 15 01 38.0–.10 39.11N 142.41E 29–1 4.9,4.9b
IDC III 11 15 01 40.6–1.7 39.07N 142.40E 50–15 4.8,4.6
NEIC III 11 15 01 41.1–.60 39.05N 142.35E 60–5 5.0b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ29.00000°,λ-93.00000°. NP2:ϕ_s164.00000°,δ61.00000°,λ-89.00000°. $M_0$1.66000×10^{16}
MOS Error ellipse: s-maj=8.8km s-min=6.2km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=34.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=10.1km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=144.0. Recorded [2 JMA] in Iwate and Miyagi.
(228) Near east coast of eastern Honshu
JMA III 11 15 02 57.4–.20 38.75N 142.16E 32 4.2
¶602652978
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 03 56.9–.50 38.04N–.07 142.98E–.08 18 4.4b 64 2-145
IDC III 11 15 03 54.2–.54 38.05N 143.01E 0 4.5,4.3 ¶16476492
ISCJB III 11 15 03 55.4–.34 38.08N–.05 143.09E–.07 18 4.3b,4.3
NEIC III 11 15 03 57.2–2.8 38.12N 143.04E 18–17 4.6b,4.3

JMA III 11 15 03 57.5–.30 38.15N 142.80E 1–5 5.1,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.2km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.3km az=42.3.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.7km az=129.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 05 22.3–.20 36.05N 141.21E 26–2 3.5 ¶602652974
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 05 53.3–.20 37.46N 141.46E 44–3 4.0 ¶602652971
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 06 21.8–.34 37.27N–.04 141.96E–.04 19 4.9b 247 1-155
ISCJB III 11 15 06 21.0–.23 37.32N–.03 141.91E–.03 19 4.8b **¶602652964**
JMA III 11 15 06 24.5–.20 37.29N 141.76E 35–3 4.8
NEIC III 11 15 06 24.3–.82 37.28N 141.74E 32–5 5.0b
MOS III 11 15 06 24.1–.92 37.52N 141.79E 33 5.0b
IDC III 11 15 06 25.4–2.1 37.25N 141.80E 43–18 4.7,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=154.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=137.0. Recorded [2 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=8.3km s-min=6.1km az=103.3.
IDC Error ellipse: s-maj=11.0km s-min=10.2km az=122.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 07 40.7–.37 36.35N–.03 141.60E–.05 21–3 5.4b 865 1-158
BJI III 11 15 07 39.4 36.50N 141.70E 30 5.2b,5.2s **¶16425239**
NEIC III 11 15 07 39.5–2.0 36.33N 141.54E 15–12 5.5b,5.2s
ISCJB III 11 15 07 40.4–.68 36.36N–.02 141.58E–.02 29–4 5.3b,5.2s
JMA III 11 15 07 41.5–.20 36.38N 141.53E 41–4 5.4,5.2s
MOS III 11 15 07 41.1–1.1 36.40N 141.57E 34 5.6b,5.2s
IDC III 11 15 07 43.5–2.3 36.37N 141.52E 38–20 5.0,4.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.1km az=177.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.6km az=110.5.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=102.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 10 25.2–.54 35.97N–.06 141.45E–.07 26 4.3b 49 1-152
IDC III 11 15 10 21.6–.60 35.99N 141.40E 0 5.7,5.7s **¶16425240**
ISCJB III 11 15 10 23.2–.36 35.96N–.04 141.60E–.06 26 5.7s,4.4b
JMA III 11 15 10 25.9–.20 36.02N 141.49E 28–3 3.9,4.4b
NEIC III 11 15 10 26.4–.30 35.97N 141.45E 35 4.8b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=15.1km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.8km az=30.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=111.0. Recorded [2 JMA] in Gifu and Nagano.
(227) Eastern Honshu
JMA III 11 15 11 42.8 36.25N 137.56E 2 3.8 ¶602652959
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s72.00000°,δ53.00000°,λ104.00000°. NP2:ϕ_s230.00000°,δ39.00000°,λ73.00000°. Principal axes: T Plg77.0000°,Azm30.0000°; N Plg11.0000°,Azm243.0000°; P Plg7.0000°,Azm152.0000°
(229) Off east coast of Honshu
ISC III 11 15 12 05.1–.58 37.09N–.08 141.85E–.06 19 4.4b 35 1-146
JMA III 11 15 12 05.7–.30 37.13N 142.01E 42 4.3 **¶16453101**
NEIC III 11 15 12 09.5–1.5 37.03N 141.93E 58–13 4.2b
IDC III 11 15 12 11.5–3.0 37.04N 141.92E 75–26 4.3,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=9.0km az=75.0.
IDC Error ellipse: s-maj=18.3km s-min=14.4km az=92.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 13 14.5–.38 36.00N–.03 141.88E–.03 19–1 6.3s,6.2b 2169 1-161
NIED III 11 15 13 00 36.00N 142.00E 11 6.1W,6.2b **¶16305002**
IDC III 11 15 13 11.6–.28 35.98N 141.86E 0 6.2,6.2s
JMA III 11 15 13 12.4–.30 36.05N 142.00E 23–5 6.7,6.2s
ISCJB III 11 15 13 13.9–.06 35.96N–.01 141.91E–.01 25 6.3s,6.1b
BJI III 11 15 13 13.2 36.05N 141.59E 20 6.7s,6.5b
NEIC III 11 15 13 14.7–.08 35.99N 141.81E 21 6.3W,6.3s
MOS III 11 15 13 14.1–1.0 36.07N 141.88E 25 6.5s,6.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ33.00000°,λ158.00000°. NP2:ϕ_s196.00000°,δ78.00000°,λ59.00000°. $M_0$1.72000×10^{18}
IDC Error ellipse: s-maj=9.9km s-min=7.4km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.4km az=160.7.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=144.0. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s39 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.39 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$0.59 $M_{r\theta}$0.73 $M_{\theta\phi}$-2.57 $M_{\phi r}$-3.00 Best double couple: NP1:ϕ_s91.00000°,δ39.00000°,λ-176.00000°. NP2:ϕ_s358.00000°,δ87.00000°,λ-51.00000°. Principal axes: T 4.4600,Plg31.0000°,Azm56.0000°; N -1.0000,Plg39.0000°,Azm175.0000°; P -3.4600,Plg36.0000°,Azm301.0000° $M_0$4.00000×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=108.6.
(228) Near east coast of eastern Honshu
JMA III 11 15 15 11.4 36.74N 141.00E 17–1 4.9 ¶602652956
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 15 16 32.8–.10 36.95N 141.12E 49–1 3.6 ¶602652955
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 15 19 37.4–.66 36.24N–.03 141.92E–.04 29–4 5.5b 1112 1-158
IDC III 11 15 19 33.2–.34 36.28N 141.98E 0 5.3,5.3 **¶17193959**
BJI III 11 15 19 34.6 36.18N 141.73E 16 6.0b,5.8
JMA III 11 15 19 34.7–.30 36.32N 142.06E 18 5.7,5.8
MOS III 11 15 19 36.6–.94 36.40N 141.91E 29 5.8b,5.8
ISCJB III 11 15 19 37.3–.39 36.25N–.02 141.91E–.02 38–3 6.1s,5.5b
NEIC III 11 15 19 38.3–.13 36.25N 141.86E 35 5.5b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=147.9.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=145.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Saitama.
(228) Near east coast of eastern Honshu
ISC III 11 15 22 26.2–.46 35.73N–.06 141.64E–.07 26 5.1b 56 1-154
IDC III 11 15 22 22.3–.49 35.77N 141.68E 0 5.2,5.1 **¶16442216**
ISCJB III 11 15 22 24.1–.35 35.70N–.04 141.76E–.06 26 5.1b,5.1
JMA III 11 15 22 24.4–.30 35.91N 141.77E 12–3 4.9,5.1
NEIC III 11 15 22 27.0–.38 35.64N 141.55E 35 5.5b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.8km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.2km az=30.4.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.5km az=103.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 23 42.1–.40 36.30N 141.66E 2 4.4 ¶602652952
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(227) Eastern Honshu
JMA III 11 15 24 39.9 36.80N 139.31E 6–1 4.5 ¶602652949
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 15 25 58.9–.10 36.03N 141.07E 38–1 4.0 ¶602652946
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 15 26 00.6–.69 37.32N–.04 142.19E–.04 24–4 5.0b 242 1-154
ISCJB III 11 15 25 57.9–1.0 37.27N–.03 142.31E–.04 15–7 5.0b **¶602652944**
IDC III 11 15 25 57.5–.47 37.35N 142.35E 0 5.0,4.9
NEIC III 11 15 26 00.2–1.8 37.32N 142.28E 20–12 5.2b,4.9
MOS III 11 15 26 00.5–1.3 37.42N 142.26E 31 5.3b,4.9
JMA III 11 15 26 07.6–.20 37.32N 141.56E 36–2 4.9,4.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.4km az=42.7.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=136.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=137.0. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
MOS Error ellipse: s-maj=8.3km s-min=6.0km az=86.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 26 52.2–.20 37.21N 141.15E 14–1 4.4 ¶600539754
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 31 04.2–1.2 37.3N–.10 141.97E–.07 24 4.3b 15 1-77
IDC III 11 15 31 07.6–2.8 38.05N 143.08E 0 4.5,4.1 **¶17193961**
JMA III 11 15 31 11.6–.20 37.32N 141.54E 43–2 3.8,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=203.0km s-min=24.5km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 32 17.2–.10 36.82N 140.98E 50–1 3.7 ¶602652931
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 15 32 32.6–.49 37.19N–.04 142.25E–.04 23–3 5.1b 613 1-151
IDC III 11 15 32 29.2–.38 37.21N 142.24E 0 5.2s,5.2 **¶600539768**
ISCJB III 11 15 32 30.9–.82 37.18N–.02 142.26E–.02 20–5 5.2s,5.1b
JMA III 11 15 32 31.6–.50 37.31N 142.17E 14–5 5.3,5.1b
BJI III 11 15 32 31.0 37.09N 142.06E 19 5.6,5.6b
MOS III 11 15 32 31.9–1.0 37.24N 142.27E 29 5.3b,5.6b
NEIC III 11 15 32 34.0–1.6 37.18N 142.25E 33–11 5.2b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=9.2km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=111.7.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=132.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.
(228) Near east coast of eastern Honshu
ISC III 11 15 36 12.7–.34 38.84N–.04 142.81E–.05 16 4.9b 302 2-154
IDC III 11 15 36 11.0–.42 38.86N 142.80E 0 4.9,4.8 **¶16305005**
ISCJB III 11 15 36 11.1–.18 38.76N–.03 142.90E–.03 16 5.9s,4.9b
MOS III 11 15 36 14.4–1.4 38.93N 142.79E 33 5.2b,4.9b
JMA III 11 15 36 14.1–.30 38.92N 142.71E 13–3 5.0,4.9b
NEIC III 11 15 36 15.3–.20 38.81N 142.71E 35 4.9b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.8km az=142.8.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=97.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.2km az=146.0. Recorded [2 JMA] in Miyagi.
(228) Near east coast of eastern Honshu
ISC III 11 15 38 54.6–.96 35.69N–.04 141.02E–.06 33–4 4.8b 159 0-148
MOS III 11 15 38 53.8–1.1 35.67N 141.00E 41 5.1b **¶602652926**
JMA III 11 15 38 54.5–.20 35.74N 141.06E 33–1 4.1
ISCJB III 11 15 38 54.2–.46 35.66N–.03 140.98E–.05 44–4 4.7b
NEIC III 11 15 38 56.6–.67 35.59N 140.93E 54–6 4.9b
IDC III 11 15 38 57.1–1.5 35.65N 140.91E 54–14 4.9,4.9s
ISC Event type ke.
MOS Error ellipse: s-maj=9.4km s-min=6.4km az=108.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=3.6.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.9km az=63.0.
IDC Error ellipse: s-maj=12.0km s-min=8.6km az=94.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 39 47.0–.39 36.40N–.04 141.91E–.05 19 4.8b 149 1-147
NIED III 11 15 39 00 36.40N 142.00E 8 4.9W **¶16453112**
IDC III 11 15 39 44.7–.51 36.40N 141.89E 0 4.8,4.7
ISCJB III 11 15 39 45.5–.23 36.35N–.03 141.96E–.03 19 4.8b,4.7
JMA III 11 15 39 47.9–.20 36.38N 141.88E 62 4.5,4.7
MOS III 11 15 39 48.7–1.4 36.52N 141.93E 41 5.2b,4.7
NEIC III 11 15 39 49.4–3.1 36.47N 141.82E 31–21 4.9b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ21.00000°,λ123.00000°. NP2:ϕ_s95.00000°,δ72.00000°,λ78.00000°. $M_0$2.71000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=12.8km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.9km az=179.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=10.3km s-min=7.3km az=117.6.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=7.3km az=139.0. Recorded [2 JMA] in Chiba and Ibaraki.
(228) Near east coast of eastern Honshu
JMA III 11 15 41 46.7–.30 38.00N 141.94E 5 4.7 ¶603049422
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 42 03.8–.37 36.08N–.03 141.76E–.04 19–1 5.5b 509 1-154
IDC III 11 15 42 01.2–.42 36.08N 141.83E 0 5.0,4.9 **¶600539776**
JMA III 11 15 42 02.8–.20 36.13N 141.90E 16–3 5.5,4.9
NEIC III 11 15 42 03.9–.61 36.02N 141.71E 17–3 5.4b,4.9
BJI III 11 15 42 03.2 35.97N 141.51E 21 5.9b,5.8s
ISCJB III 11 15 42 04.4–.86 36.05N–.02 141.74E–.03 30–5 5.6s,5.3b
MOS III 11 15 42 07.1–1.1 36.51N 141.65E 33 5.7b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=11.9km s-min=10.2km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=138.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.3km az=27.3.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=116.3.
(228) Near east coast of eastern Honshu
JMA III 11 15 47 01.2–.20 36.50N 141.55E 41–4 4.4 ¶16310125
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 48 45.2–.44 36.24N–.06 142.59E–.07 18 4.7b 135 2-146
IDC III 11 15 48 42.9–.53 36.26N 142.61E 0 4.6,4.5 **¶16453113**
ISCJB III 11 15 48 44.2–.24 36.23N–.04 142.50E–.04 18 4.7b,4.5
NEIC III 11 15 48 45.3–3.0 36.23N 142.56E 15–18 4.9b,4.5
MOS III 11 15 48 46.8–1.3 36.27N 142.48E 38 5.0b,4.5
JMA III 11 15 48 52.8–.10 37.48N 141.29E 27–1 4.1,4.5
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.0km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.3km az=145.9.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.8km az=121.0.
MOS Error ellipse: s-maj=9.9km s-min=7.4km az=122.6.

JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 15 49 34.9–.10 36.25N 140.92E 29–2 3.7
¶602653576
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 11 15 50 56.0–.75 37.42N–.04 142.42E–.04 11–4 4.9b 224 1-156
IDC III 11 15 50 54.8–.44 37.47N 142.40E 0 4.6,4.6 **¶16476506**
ISCJB III 11 15 50 57.2–1.3 37.45N–.03 142.38E–.03 27–9 4.8b,4.6
MOS III 11 15 50 57.7–1.1 37.52N 142.45E 31 5.1b,4.6
NEIC III 11 15 50 57.1–2.1 37.50N 142.37E 14–13 5.0b,4.6
JMA III 11 15 50 57.2–.30 37.53N 142.27E 14–4 5.0,4.6
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=152.9.
MOS Error ellipse: s-maj=8.6km s-min=5.5km az=116.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=122.0. Recorded [2 JMA] in Fukushima and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(227) Eastern Honshu
JMA III 11 15 53 47.8–.10 37.27N 140.99E 26–1 3.3
¶603049426
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 11 15 54 58.3–.99 37.2N–.10 142.2E–.10 35 4.2b 16 1-146
JMA III 11 15 54 54.1–.80 37.17N 142.42E 37 4.6 **¶16476510**
ISCJB III 11 15 54 56.6–.58 37.1N–.10 142.27E–.07 35 4.2b
IDC III 11 15 55 01.4–3.2 37.10N 142.13E 61–30 4.3,4.2
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=7.4km az=171.9.
IDC Error ellipse: s-maj=21.2km s-min=17.8km az=100.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 55 24.7–1.9 36.62N–.04 141.96E–.05 29–13 4.7b 143 1-147
BJI III 11 15 55 20.4 36.61N 142.38E 35 5.5b,5.3 **¶17193973**
NEIC III 11 15 55 22.1–.91 36.66N 141.94E 11–5 4.9b,5.3
ISCJB III 11 15 55 23.7–.25 36.61N–.03 141.98E–.03 33 4.7b,5.3
JMA III 11 15 55 25.9–.20 36.70N 141.82E 44–5 4.7,5.3
IDC III 11 15 55 28.3–2.2 36.65N 141.78E 54–20 4.5,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=12.3km az=92.0.
(228) Near east coast of eastern Honshu
ISC III 11 15 56 46.4–.82 35.02N–.10 141.5E–.10 25 4.2b 21 1-91
ISCJB III 11 15 56 44.3–.66 34.95N–.09 141.6E–.10 25 4.2b **¶602443424**
IDC III 11 15 56 53.7–9.8 35.16N 141.15E 84–90 4.3,4.1
JMA III 11 15 57 01.4–.10 35.95N 141.56E 35–4 4.8,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=8.3km az=141.2.
IDC Error ellipse: s-maj=26.6km s-min=17.0km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 57 56.6–.10 37.11N 141.11E 49–1 4.1
¶603049427
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 15 59 22.3–.10 36.52N 140.87E 49–1 3.9
¶602653570
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 16 03 49.3–.20 38.28N 142.21E 29 4.4
¶602653563
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 04 19.1–.66 38.6N–.10 144.30E–.08 29 4.6b 31 3-118
ISCJB III 11 16 04 17.1–.51 38.59N–.08 144.27E–.08 29 4.6b **¶16476518**
IDC III 11 16 04 20.6–2.7 38.62N 144.30E 41–24 4.6,4.5
JMA III 11 16 04 43.0–.30 39.04N 142.38E 33–4 4.4,4.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=9.0km az=156.8.
IDC Error ellipse: s-maj=16.0km s-min=13.7km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 16 04 52.4–.41 39.34N–.05 144.43E–.05 27–2 5.4s,5.2b 698 3-158
BJI III 11 16 04 51.5 39.20N 144.30E 26 5.9b,5.6s **¶17193981**
MOS III 11 16 04 52.1–1.2 39.36N 144.48E 33 5.3b,5.6s
ISCJB III 11 16 04 52.1–.16 39.34N–.04 144.34E–.03 32 5.4s,5.1b
NEIC III 11 16 04 53.3–.18 39.26N 144.41E 35 5.3b,5.1b
IDC III 11 16 04 53.3–5.2 39.22N 144.42E 33–38 5.0,4.9
ISC Event type se.
MOS Error ellipse: s-maj=8.9km s-min=5.4km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=173.6.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=150.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=14.2km s-min=11.6km az=128.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 05 23.2–.10 37.24N 141.43E 45–1 4.4
¶603049431
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 06 46.6–.10 36.53N 140.93E 49–1 4.3
¶602653560
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 07 12.6–1.1 37.9N–.10 142.64E–.08 14 4.5b 15 2-63
ISCJB III 11 16 07 11.0–.89 38.0N–.10 142.76E–.07 14 4.5b **¶602653556**
JMA III 11 16 07 13.3–.40 38.10N 142.58E 8 4.9
IDC III 11 16 07 19.3–4.1 37.95N 142.52E 68–37 4.5,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.6km s-min=8.2km az=172.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=19.1km az=150.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 09 31.5–.10 35.93N 141.11E 25–2 3.6
¶602653551
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 16 11 25.9–.54 39.42N–.03 143.66E–.04 10–3 5.5s,5.5b 1042 3-154
BJI III 11 16 11 23.0 39.57N 143.66E 11 6.0b,5.7s **¶602653545**
JMA III 11 16 11 23.8–.40 39.57N 143.60E 2–4 5.8,5.7s
IDC III 11 16 11 24.8–.37 39.50N 143.56E 0 5.2s,5.2
ISCJB III 11 16 11 26.1–.09 39.48N–.02 143.51E–.02 16 5.6s,5.3b
MOS III 11 16 11 28.5–1.3 39.59N 143.50E 31 5.8s,5.7b
NEIC III 11 16 11 30.0–.12 39.46N 143.47E 35 5.5b,5.7b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.9km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=152.5.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=93.7.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=144.0. Recorded [2 JMA] in Iwate, Miyagi and Yamagata.
(227) Eastern Honshu
JMA III 11 16 12 03.4 36.81N 139.47E 4–1 2.2
¶602653543
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 16 12 03.9–.20 36.23N 141.72E 54–4 4.4
¶602653541
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 17 27.0–.20 38.48N 142.05E 41–4 4.2
¶603049432
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 18 51.6–1.0 37.3N–.10 141.80E–.07 24 4.0b 15 1-90
ISCJB III 11 16 18 51.2–.92 37.35N–.08 141.82E–.06 24 4.1b **¶17193992**
IDC III 11 16 18 54.7–.96 38.53N 142.58E 0 4.4L,4.3
JMA III 11 16 18 56.8–.20 37.39N 141.50E 38–2 3.8,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.6km az=162.1.
IDC Error ellipse: s-maj=35.7km s-min=22.9km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 19 16.0–1.9 36.15N–.06 141.3E–.10 26 9 1-60
JMA III 11 16 19 15.7–.10 36.12N 141.26E 26–2 4.3 **¶602653526**
ISCJB III 11 16 19 15.1–1.7 36.15N–.05 141.3E–.10 26 4.0b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(229) Off east coast of Honshu
ISC III 11 16 20 50.4–.35 36.24N–.04 141.96E–.04 21–3 5.0b 435 1-148
BJI III 11 16 20 48.7 36.17N 141.68E 12 5.6b,5.3s **¶16305012**
ISCJB III 11 16 20 49.8–1.1 36.18N–.02 141.95E–.03 26–7 5.0s,4.9b
JMA III 11 16 20 49.7–.30 36.26N 142.04E 25 4.9,4.9b
MOS III 11 16 20 50.5–1.1 36.18N 141.94E 32 5.2b,4.9b
IDC III 11 16 20 52.4–4.0 36.18N 141.98E 32–30 4.8,4.7
NEIC III 11 16 20 52.8–.61 36.18N 141.91E 36–5 4.9b,4.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=140.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=110.8.
IDC Error ellipse: s-maj=11.7km s-min=8.4km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=135.0. Recorded [2 JMA] in Chiba and Ibaraki.
(228) Near east coast of eastern Honshu
JMA III 11 16 29 10.4–.10 36.81N 141.15E 46–1 3.6
¶602653497
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 29 41.1–1.3 36.32N–.04 141.11E–.06 30–9 4.4b 69 1-93
ISCJB III 11 16 29 40.6–.72 36.29N–.04 141.22E–.06 42–6 4.4b **¶602653493**
JMA III 11 16 29 41.0–.10 36.25N 141.16E 46–2 4.3
NEIC III 11 16 29 43.0–1.0 36.37N 141.16E 47–10 4.8b
IDC III 11 16 29 44.8–2.7 36.39N 141.15E 60–23 4.3,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.9km az=168.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.4km az=200.0.
IDC Error ellipse: s-maj=20.7km s-min=15.2km az=172.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 31 11.3–.20 36.19N 141.42E 47–4 3.6
¶602653488
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 16 34 17.2–.35 39.59N–.05 143.56E–.04 11 5.0b 640 2-154
ISCJB III 11 16 34 17.0–.15 39.77N–.03 143.42E–.02 11 4.9b,4.8s **¶16305013**
BJI III 11 16 34 17.6 39.52N 143.54E 31 5.6b,5.3s
JMA III 11 16 34 17.2–.50 39.36N 143.47E 13 4.9,5.3s
MOS III 11 16 34 19.1–1.0 39.74N 143.45E 29 5.2b,5.3s
NEIC III 11 16 34 21.0–.20 39.62N 143.38E 35 5.0b,5.3s
IDC III 11 16 34 23.2–2.3 39.57N 143.40E 52–20 4.8,4.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.5km az=162.4.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.6km az=96.5.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=161.0.
IDC Error ellipse: s-maj=13.0km s-min=9.9km az=147.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 36 48.2–.10 36.07N 141.04E 39–2 3.3
¶603049437
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 40 53.6–.82 37.37N–.09 141.80E–.06 24 4.1b 22 1-146
ISCJB III 11 16 40 52.2–.68 37.31N–.08 141.92E–.04 24 4.1b **¶602653459**
JMA III 11 16 40 54.0–.20 37.36N 141.80E 22–3 4.3
IDC III 11 16 40 59.3–4.6 37.71N 142.36E 38–42 4.2,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=4.9km az=170.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=32.4km s-min=20.3km az=123.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 42 20.1–.43 38.34N–.05 142.90E–.05 23 4.7b 147 2-145
NIED III 11 16 42 00 38.40N 143.00E 17 4.6W **¶16461245**
ISCJB III 11 16 42 18.6–.23 38.38N–.03 142.99E–.03 23 4.6b
JMA III 11 16 42 18.7–.30 38.45N 142.86E 7–3 4.8
NEIC III 11 16 42 22.6–.69 38.38N 142.86E 42–6 4.7b
IDC III 11 16 42 23.8–2.5 38.40N 142.91E 51–22 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ48.00000°,λ-150.00000°. NP2:ϕ_D209.00000°,δ68.00000°,λ-46.00000°. $M_0$7.83000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=126.0.
IDC Error ellipse: s-maj=13.5km s-min=10.2km az=94.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 45 52.2–.20 38.36N 141.75E 48–2 3.9
¶602652905
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 49 17.6–.43 36.08N–.05 141.24E–.06 31 4.6b 104 0-147
ISCJB III 11 16 49 15.9–.27 36.07N–.04 141.24E–.04 31 4.5b **¶602652895**
NEIC III 11 16 49 15.7–2.8 36.00N 141.24E 20–17 4.8b
JMA III 11 16 49 16.7–.10 36.07N 141.23E 45–2 4.6
IDC III 11 16 49 19.4–2.2 36.05N 141.26E 44–20 4.4,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.6km az=146.2.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.8km az=131.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=12.1km az=151.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 51 50.0–.10 36.02N 141.25E 31–2 3.7
¶602652894
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 16 52 49.1–2.1 36.6N–.10 141.5E–.10 26 4.0b 13 1-60
IDC III 11 16 52 34.5–2.5 35.14N 142.14E 0 4.2,4.1 **¶603049440**
JMA III 11 16 52 49.8–.20 36.60N 141.49E 37–3 4.1,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=80.6km s-min=21.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 16 54 08.5–.20 37.39N 141.97E 28–5 4.4
¶602652887
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(74) Near coast of Nicaragua
ISC III 11 16 54 50.5–.43 12.20N–.05 87.69W–.04 48 4.8b 456 1-149
CASC III 11 16 54 49.6–1.9 12.14N 87.76W 48–99 4.8b,4.7 **¶16449447**
ISCJB III 11 16 54 49.2–.24 12.26N–.03 87.66W–.03 48 4.7b,4.7
NEIC III 11 16 54 51.4–.37 12.27N 87.63W 54 4.8b,4.7

IDC III 11 16 54 53.0–2.3 12.40N 87.34W 62–20 4.6,4.6
BJI III 11 16 54 52.9 12.30N 87.50W 64 4.6,4.6
ISC Event type fe.
CASC Error ellipse: s-maj=13.0km s-min=8.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.2km az=37.3.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=4.7km az=221.0. Felt [II] at Managua. Also felt at Chinandega. Felt [I] at La Union, El Salvador.
IDC Error ellipse: s-maj=30.1km s-min=11.9km az=50.0.
(229) Off east coast of Honshu
ISC III 11 16 55 51.3–.59 37.82N–.05 143.26E–.05 24–3 5.0b,4.9s 569 2-150
IDC III 11 16 55 48.0–.45 37.78N 143.26E 0 4.8,4.8 **¶602652885**
ISCJB III 11 16 55 48.7–1.3 37.83N–.03 143.19E–.03 12–7 4.9b,4.9s
BJI III 11 16 55 49.3 37.92N 143.26E 26 5.4b,5.1
JMA III 11 16 55 50.4–.70 37.76N 143.21E 30 5.1,5.1
MOS III 11 16 55 50.8–.94 38.01N 143.16E 20 5.2b,5.1
NEIC III 11 16 55 53.5–.16 37.82N 143.15E 35 5.0b,5.1
ISC Event type ke.
IDC Error ellipse: s-maj=12.4km s-min=9.9km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=2.9km az=157.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=6.2km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=101.1.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=2.9km az=158.0.
(228) Near east coast of eastern Honshu
ISC III 11 16 56 41.3–.42 38.20N–.06 142.31E–.06 14 4.7b 95 1-145
ISCJB III 11 16 56 39.5–.28 38.17N–.04 142.39E–.04 14 4.7b **¶17194001**
NEIC III 11 16 56 44.3–.27 38.18N 142.33E 35 4.8b
JMA III 11 16 56 44.5–.20 38.27N 142.20E 42 5.3
IDC III 11 16 56 48.6–2.5 38.30N 142.20E 66–22 4.7,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.3km az=146.3.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.5km az=143.0. Recorded [2 JMA] in Chiba, Fukushima and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=11.7km az=157.0.
(74) Near coast of Nicaragua
ISC III 11 16 57 49.1–1.1 12.04N–.06 87.84W–.05 55–10 4.6b 74 1-149
ISCJB III 11 16 57 47.5–.53 11.97N–.05 87.87W–.04 55–5 4.5b **¶16445707**
CASC III 11 16 57 48.0–2.0 11.98N 87.88W 35–14 4.6b,4.6
IDC III 11 16 57 49.0–2.4 12.12N 87.67W 47–26 4.3,4.3
NEIC III 11 16 57 50.6–1.3 12.12N 87.71W 67–12 4.8,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=3.7km az=37.8.
CASC Error ellipse: s-maj=6.5km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=38.4km s-min=19.5km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=20.7km s-min=12.1km az=224.0. Felt [I] at La Union, El Salvador.
(228) Near east coast of eastern Honshu
JMA III 11 16 59 05.1–.20 38.90N 142.41E 40–4 3.9
¶602652883
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 08 05.7–.93 36.63N–.04 141.01E–.06 44–8 4.2b 66 0-83
ISCJB III 11 17 08 05.2–.49 36.63N–.03 141.01E–.05 55–4 4.1b **¶602652833**
NEIC III 11 17 08 06.1–1.4 36.51N 140.89E 51–15 4.1b
JMA III 11 17 08 06.4–.10 36.65N 140.94E 49–1 4.2
IDC III 11 17 08 09.9–1.9 36.53N 140.79E 83–18 4.2,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=9.8.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=10.4km az=60.0.
JMA Event type fe.
IDC Error ellipse: s-maj=18.7km s-min=10.6km az=64.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 11 37.5–.54 38.41N–.07 143.01E–.07 23 4.6b 73 2-145
IDC III 11 17 11 33.9–.53 38.39N 143.04E 0 4.6,4.5 **¶602652809**
ISCJB III 11 17 11 35.4–.34 38.38N–.05 143.08E–.05 23 4.6b,4.5
JMA III 11 17 11 37.3–.20 38.47N 142.96E 19–5 4.6,4.5
NEIC III 11 17 11 37.8–2.1 38.39N 143.04E 27–15 4.6,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=13.0km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.8km az=145.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.4km az=119.0.
(227) Eastern Honshu
JMA III 11 17 12 40.5 36.82N 139.50E 5–1 2.8
¶603049445
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 17 13 25.9–.20 37.60N 141.92E 36 4.3
¶603049446
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 14 55.0–.41 38.93N–.06 142.44E–.06 27 4.8b 189 1-149
IDC III 11 17 14 51.0–.49 38.93N 142.47E 0 5.3s,5.3 **¶16404894**
ISCJB III 11 17 14 53.9–.19 38.93N–.04 142.52E–.03 27 5.1s,4.7b
JMA III 11 17 14 55.2–.20 39.05N 142.42E 26–2 5.0,4.7b
NEIC III 11 17 14 59.9–.58 38.90N 142.38E 68–5 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=12.6km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.9km az=149.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=142.0. Recorded [3 JMA] in Iwate.
(229) Off east coast of Honshu
ISC III 11 17 17 25.9–.96 35.34N–.03 141.66E–.04 14–5 5.4s,5.4b 476 1-161
NIED III 11 17 17 00 35.40N 142.00E 23 5.9W,5.4b **¶600539942**
NEIC III 11 17 17 23.6–.46 35.33N 141.39E 2–2 5.9W,5.4b
JMA III 11 17 17 23.6–.50 35.40N 142.03E 22 6.1,5.4b
ISCJB III 11 17 17 23.9–.14 35.31N–.02 141.54E–.03 10 5.5s,5.4b
IDC III 11 17 17 24.6–.50 35.30N 141.75E 0 5.3,5.3s
MOS III 11 17 17 28.7–.95 35.52N 141.53E 39 5.7b,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ80.00000°,λ6.00000°. NP2:ϕ_s59.00000°,δ84.00000°,λ170.00000°. $M_0$6.69000×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=149.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=135.7.
IDC Error ellipse: s-maj=14.7km s-min=12.5km az=131.0.
MOS Error ellipse: s-maj=8.8km s-min=5.6km az=105.1.
(228) Near east coast of eastern Honshu
JMA III 11 17 22 47.4–.10 38.72N 141.49E 66–1 3.7
¶602652799
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 23 53.7–.30 36.00N–.04 141.81E–.04 10 5.0b 355 1-158
ISCJB III 11 17 23 52.7–.15 35.97N–.03 141.86E–.02 10 4.9b **¶16476543**
IDC III 11 17 23 52.8–.39 36.06N 141.92E 0 4.9,4.8
BJI III 11 17 23 54.0 36.04N 141.89E 26 5.8b,5.5s
MOS III 11 17 23 55.5–.94 36.05N 141.82E 28 5.3b,5.5s
JMA III 11 17 23 55.5–.20 36.12N 141.92E 32 5.2,5.5s
NEIC III 11 17 23 55.2–1.9 36.00N 141.81E 16–11 5.0b,5.5s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=174.4.
IDC Error ellipse: s-maj=13.8km s-min=10.5km az=107.0.
MOS Error ellipse: s-maj=7.7km s-min=5.9km az=111.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=136.0.
(228) Near east coast of eastern Honshu
JMA III 11 17 27 12.7–.10 39.17N 142.34E 32–1 3.9
¶602652797
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 30 10.9–1.5 37.98N–.10 141.9E–.10 30 4.0b 13 1-62
IDC III 11 17 30 08.7–8.6 37.51N 141.29E 0 4.7s,4.7 **¶16461250**
JMA III 11 17 30 11.3–.20 38.09N 141.90E 51 4.5,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=311.2km s-min=23.4km az=62.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 30 46.1–.61 37.36N–.03 141.27E–.03 18–3 5.0b 443 0-147
BJI III 11 17 30 41.7 36.86N 141.61E 25 5.4b,5.4s **¶17194011**
IDC III 11 17 30 43.6–.42 37.39N 141.28E 0 4.8,4.7
ISCJB III 11 17 30 45.0–.13 37.31N–.02 141.32E–.02 18 4.9b,4.7
JMA III 11 17 30 46.3–.10 37.41N 141.31E 18–1 5.0,4.7
NEIC III 11 17 30 47.4–1.4 37.38N 141.14E 24–9 5.0b,4.7
MOS III 11 17 30 47.2–.90 37.60N 141.16E 27 5.2b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=10.3km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=158.7.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=139.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=7.6km s-min=4.8km az=102.5.
(229) Off east coast of Honshu
ISC III 11 17 32 12.5–.71 37.08N–.04 144.68E–.04 24–4 5.3b 897 3-152
IDC III 11 17 32 08.8–.42 37.00N 144.72E 0 5.2,5.1 **¶16310798**
BJI III 11 17 32 11.8 37.44N 144.60E 16 5.7b,5.5s
NEIC III 11 17 32 12.2–1.6 37.06N 144.63E 19–9 5.4b,5.5s
MOS III 11 17 32 12.1–.79 37.20N 144.63E 26 6.2s,5.5b
ISCJB III 11 17 32 12.8–.13 37.13N–.03 144.60E–.02 33 5.9s,5.2b
JMA III 11 17 32 14.4–.30 37.07N 144.39E 43 5.8,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=10.1km az=137.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=147.0.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=106.7.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=1.8km az=172.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 17 39 26.6–.10 37.45N 141.40E 42–2 4.0
¶602652765
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 46 23.5–.50 37.82N–.07 142.75E–.06 18 4.3b 77 2-89
IDC III 11 17 46 21.1–.80 37.92N 142.66E 0 4.3L,4.2 **¶16442240**
ISCJB III 11 17 46 21.5–.34 37.74N–.04 142.80E–.04 18 4.2b,4.2
NEIC III 11 17 46 25.9–1.0 37.77N 142.75E 37–10 4.6b,4.2
JMA III 11 17 46 31.7–.20 37.42N 141.92E 19–3 4.5,4.2
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=14.9km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=162.3.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=8.8km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(232) Western Honshu
JMA III 11 17 47 48.6 35.29N 136.50E 6–1 2.3
¶603049451
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 17 48 10.2–.10 36.29N 140.91E 43–1 3.8
¶602652724
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 48 56.5–2.6 36.3N–.10 141.3E–.10 31–14 4.2b 23 1-60
NEIC III 11 17 48 43.2–3.6 34.41N 142.40E 35 4.4b **¶16425246**
IDC III 11 17 48 48.0–1.1 36.40N 142.43E 0 4.1,4.1b
JMA III 11 17 49 00.8–.10 36.87N 141.06E 49–1 3.9,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=60.4km s-min=25.7km az=119.0.
IDC Error ellipse: s-maj=32.2km s-min=21.0km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 17 51 43.2–.10 36.47N 141.06E 39–1 4.7
¶603049456
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 17 55 51.0–1.4 35.84N–.09 141.0E–.20 31 4.1b 12 0-60
IDC III 11 17 55 44.0–2.0 36.00N 141.90E 0 4.0,4.0 **¶17194019**
ISCJB III 11 17 55 48.5–1.0 35.82N–.07 141.2E–.10 31 4.1b,4.0
JMA III 11 17 55 49.9–.10 35.88N 141.17E 18–2 3.8,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=69.3km s-min=20.4km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=10.1km az=175.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 17 56 46.8–.95 37.48N–.03 141.31E–.05 28–6 4.3b 96 0-147
NIED III 11 17 56 00 37.50N 141.30E 32 4.4W **¶16442221**
NEIC III 11 17 56 45.7–2.9 37.49N 141.30E 19–18 4.6b
ISCJB III 11 17 56 46.8–.58 37.41N–.03 141.38E–.06 45–4 4.3b
JMA III 11 17 56 47.2–.10 37.48N 141.32E 30–1 4.4
IDC III 11 17 56 48.7–2.4 37.49N 141.22E 40–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ56.00000°,λ-156.00000°. NP2:ϕ_s183.00000°,δ70.00000°,λ-37.00000°. $M_0$5.13000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=6.0km az=110.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=1.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=12.3km az=96.0.
(229) Off east coast of Honshu
ISC III 11 17 57 38.2–1.1 37.1N–.10 142.33E–.08 15 4.4b 43 1-83
IDC III 11 17 57 31.6–.94 36.46N 142.59E 0 4.4,4.3 **¶16442224**
ISCJB III 11 17 57 35.9–.78 37.05N–.10 142.41E–.06 15 4.3b,4.3
NEIC III 11 17 57 37.2–2.1 36.43N 142.54E 41–16 4.6b,4.3
JMA III 11 17 57 39.8–.20 37.05N 142.27E 37 4.7,4.3
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=17.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=4.8km az=160.9.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=11.2km az=107.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 18 01 33.0–.10 36.90N 141.02E 50–1 3.0
¶603049457
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 18 01 48.1–.64 36.08N–.05 141.19E–.08 31 4.0b 33 0-91
IDC III 11 18 01 43.5–.76 36.04N 141.32E 0 4.1,4.0 **¶603049459**
ISCJB III 11 18 01 46.4–.49 36.08N–.05 141.29E–.06 31 4.0b,4.0
JMA III 11 18 01 47.6–.10 36.07N 141.25E 42–2 3.8,4.0
NEIC III 11 18 01 52.9–1.6 35.95N 141.02E 74–13 4.3b,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=19.1km s-min=18.1km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.2km az=37.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=12.4km az=156.0.
(229) Off east coast of Honshu
ISC III 11 18 11 25.8–.50 37.18N–.03 142.16E–.03 25–3 5.9s,5.7b 1641 1-161
NIED III 11 18 11 00 37.10N 142.00E 17 5.7W,5.7b **¶17194026**
IDC III 11 18 11 22.0–.28 37.20N 142.17E 0 5.4,5.4
ISCJB III 11 18 11 22.5–.70 37.17N–.02 142.15E–.01 12–4 5.9s,5.7b
BJI III 11 18 11 23.4 37.09N 141.81E 14 6.0,6.0b
NEIC III 11 18 11 24.7–1.4 37.20N 142.10E 16–8 5.7b,6.0b
JMA III 11 18 11 25.6–.50 37.17N 142.03E 26–5 6.0,6.0b
MOS III 11 18 11 26.1–.97 37.28N 142.13E 35 5.9b,5.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ15.00000°,λ-158.00000°. NP2:ϕ_s164.00000°,δ84.00000°,λ-76.00000°. $M_0$3.35000×10^{17}

IDC Error ellipse: s-maj=9.0km s-min=7.7km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=159.5.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Miyagi, Saitama, Tochigi and Yamagata.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=103.9.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 18 17 05.1–.69**	**36.26N–.03**	**141.72E–.04**	**24–4**	**5.8b**	**1468**	**1-161**
NIED	III	11 18 17 00	36.30N	141.50E	5	5.3W		**¶17194028**
IDC	III	11 18 17 01.0–.36	36.19N	141.75E	0	5.6,5.6		
BJI	III	11 18 17 02.8	36.19N	141.55E	17	5.8b,5.8s		
ISCJB	III	11 18 17 03.2–.72	36.21N–.02	141.72E–.02	22–4	5.8s,5.7b		
JMA	III	11 18 17 03.0–.30	36.26N	141.80E	16	5.7,5.7b		
MOS	III	11 18 17 05.1–.89	36.29N	141.67E	33	6.0b,5.7b		
NEIC	III	11 18 17 07.3–.53	36.22N	141.63E	40–4	5.8b,5.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ40.00000°,λ44.00000°. NP2:ϕ_s65.00000°,δ64.00000°,λ121.00000°. $M_0$1.16000×10^{17}
IDC Error ellipse: s-maj=10.5km s-min=9.7km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=154.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.8km s-min=3.9km az=110.4.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=133.0.

(227) Eastern Honshu

JMA	**III**	**11 18 28 19.7**	**36.82N**	**139.50E**	**5–1**	**2.6**		
								¶602652663

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 18 33 38.4–1.1**	**38.0N–.10**	**142.8E–.10**	**14**	**4.1b**	**13**	**2-58**
ISCJB	III	11 18 33 36.8–.99	38.1N–.10	142.7E–.10	14	4.0b		**¶17194036**
IDC	III	11 18 33 36.9–1.1	38.09N	142.66E	0	4.1,4.0		
JMA	III	11 18 33 47.3–.20	39.04N	142.33E	37–3	4.3,4.0		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=19.3km s-min=13.2km az=143.6.
IDC Error ellipse: s-maj=25.7km s-min=20.0km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 18 36 50.7–.10**	**37.12N**	**141.23E**	**34–1**	**3.6**		
								¶603049466

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 18 39 36.1–.37**	**37.89N–.05**	**143.06E–.06**	**18**	**4.8b**	**184**	**4-154**
IDC	III	11 18 39 33.7–.42	37.98N	142.98E	0	4.8,4.8s		**¶17194040**
ISCJB	III	11 18 39 34.8–.22	37.91N–.04	143.04E–.04	18	4.7b,4.8s		
NEIC	III	11 18 39 39.0–.77	37.96N	143.00E	36–7	4.8b,4.8s		

ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.4km az=139.6.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=140.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 18 39 52.1–.10**	**36.58N**	**141.10E**	**31–1**	**4.4**		
								¶603049467

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 18 44 07.8–.48**	**36.87N–.03**	**141.19E–.04**	**42–4**	**5.0b,4.8s**	**734**	**0-157**
BJI	III	11 18 44 05.3	36.80N	141.44E	55	5.5b,5.1b		**¶16442284**
MOS	III	11 18 44 05.3–1.1	36.92N	141.03E	33	5.2b,5.1b		
ISCJB	III	11 18 44 07.8–.33	36.87N–.02	141.08E–.03	53–2	5.0b,4.8s		
JMA	III	11 18 44 08.0–.10	36.87N	141.15E	47–1	5.0,4.8s		
IDC	III	11 18 44 08.4–.54	36.85N	141.09E	50–5	4.8,4.6		
NEIC	III	11 18 44 09.2–.57	36.83N	141.02E	54–5	5.0b,4.6		

ISC Event type se.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=97.7.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=137.1.
JMA Event type fe.
IDC Error ellipse: s-maj=10.0km s-min=7.8km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=132.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 18 45 28.4–.58**	**36.20N–.03**	**141.25E–.05**	**28–3**	**4.8b**	**103**	**1-91**
NIED	III	11 18 45 00	36.20N	141.30E	38	4.9W		**¶16442268**
NEIC	III	11 18 45 26.5–3.9	36.13N	141.24E	16–24	5.1b		
JMA	III	11 18 45 28.4–.10	36.22N	141.26E	43–3	4.8		
ISCJB	III	11 18 45 28.4–.62	36.18N–.03	141.28E–.05	44–5	4.7b		
IDC	III	11 18 45 30.2–.78	36.22N	141.16E	39–6	4.9L,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ29.00000°,λ156.00000°. NP2:ϕ_s345.00000°,δ79.00000°,λ63.00000°. $M_0$2.98000×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.5km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=7.6.
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=116.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 18 47 48.5–.20**	**36.00N**	**141.07E**	**31–2**	**3.9**		
								¶603049468

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 18 50 17.3–.10**	**36.26N**	**141.04E**	**29–2**	**3.8**		
								¶602652645

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**11 18 53 57.9–1.3**	**38.92N–.05**	**140.55E–.08**	**20–7**	**4.2b**	**34**	**0-146**
NEIC	III	11 18 53 52.4–.82	38.34N	140.65E	10	4.4b		**¶16476574**
JMA	III	11 18 53 55.7–.20	38.99N	140.75E	1–2	3.8		
IDC	III	11 18 53 55.0–.75	38.97N	140.49E	0	4.2,4.0		
ISCJB	III	11 18 53 57.1–.91	38.96N–.05	140.66E–.08	29–6	4.1b,4.0		

ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 18 55 12.8–.88**	**35.81N–.04**	**141.82E–.04**	**16–5**	**4.8b**	**301**	**1-154**
NIED	III	11 18 55 00	36.00N	141.90E	14	4.9W		**¶16445713**
IDC	III	11 18 55 10.7–.43	35.84N	141.74E	0	4.7,4.6		
JMA	III	11 18 55 11.9–.20	35.95N	141.83E	16–3	4.8,4.6		
NEIC	III	11 18 55 11.4–2.8	35.80N	141.74E	4–17	5.0b,4.6		
ISCJB	III	11 18 55 12.2–1.0	35.82N–.02	141.78E–.03	20–7	4.8b,4.6		
MOS	III	11 18 55 16.9–.91	36.34N	141.63E	33	5.1b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ64.00000°,λ-10.00000°. NP2:ϕ_s112.00000°,δ81.00000°,λ-153.00000°. $M_0$2.12000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=10.5km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.9km az=23.5.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=114.0.

(226) Near west coast of eastern Honshu

ISC	**III**	**11 18 59 17.7–.34**	**37.00N–.02**	**138.54E–.02**	**15–1**	**6.2s,6.0b**	**1858**	**0-164**
NIED	III	11 18 59 00	37.00N	138.60E	5	6.2W,6.0b		**¶600540067**
BJI	III	11 18 59 07.7	36.95N	139.42E	10	6.6s,6.4		
IDC	III	11 18 59 14.4–.29	37.00N	138.46E	0	6.3,6.3s		
ISCJB	III	11 18 59 15.9–.06	37.04N–.01	138.47E–.01	14	6.2s,5.9b		
JMA	III	11 18 59 15.6	36.99N	138.60E	8–2	6.7,5.9b		
NEIC	III	11 18 59 16.5–.75	37.01N	138.38E	9–4	6.2W,6.1s		
GCMT	III	11 18 59 16.5–.20	37.06N	138.60E	12	6.3W,6.1s		
MOS	III	11 18 59 17.7–1.1	37.05N	138.42E	30	6.2b,6.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ38.00000°,λ117.00000°. NP2:ϕ_s29.00000°,δ56.00000°,λ70.00000°. $M_0$2.13000×10^{18}
IDC Error ellipse: s-maj=10.9km s-min=6.8km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=147.8.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s253.00000° ,δ80.00000°,λ110.00000°. NP2:ϕ_s8.00000°,δ23.00000°,λ27.00000°. Principal axes: T Plg51.0000°,Azm186.0000°; N Plg20.0000°,Azm69.0000°; P Plg32.0000°,Azm326.0000°
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=132.0. Recorded [6U JMA] in Nagano. Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}2.06 $M_{\theta\theta}$-1.52 $M_{\phi\phi}$-0.54 $M_{r\theta}$-0.29 $M_{\theta\phi}$-1.34 $M_{\phi r}$-0.19 Best double couple: NP1:ϕ_s236.00000°,δ49.00000° ,λ91.00000°. NP2:ϕ_s55.00000°,δ41.00000°,λ89.00000°. Principal axes: T 2.0900,Plg86.0000°,Azm152.0000°; N 0.4000,Plg1.0000°,Azm55.0000° ; P -2.4800,Plg4.0000°,Azm325.0000° $M_0$2.30000×10^{18}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s111,c212; Duration: 3s4 Moment tensor: Scale 10^{18}Nm; M_{rr}2.35±.07 $M_{\theta\theta}$-1.43±.06; $M_{\phi\phi}$-0.92±.06; $M_{r\theta}$-2.03±.20; $M_{\theta\phi}$-1.96±.05; $M_{\phi r}$-0.51±.22; Best double couple: NP1:ϕ_s247.00000° ,δ65.00000°,λ110.00000°. NP2:ϕ_s26.00000°,δ32.00000°,λ53.00000°. Principal axes: T 3.2620,Plg64.0000°,Azm192.0000°; N 0.4790,Plg18.0000°,Azm59.0000° ; P -3.7420,Plg18.0000°,Azm322.0000° $M_0$3.50200×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=106.4.

(227) Eastern Honshu

JMA	**III**	**11 19 01 32.0–.20**	**36.95N**	**138.61E**	**1–2**	**3.9**		
								¶602652626

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 19 02 58.6–.35**	**39.33N–.03**	**143.00E–.03**	**24–2**	**6.2s,6.1b**	**1630**	**2-160**
NIED	III	11 19 02 00	39.20N	143.30E	20	6.1W,6.1b		**¶602653178**
ISCJB	III	11 19 02 55.0–.76	39.36N–.02	143.02E–.02	10–4	6.2s,6.0b		
IDC	III	11 19 02 54.6–.32	39.31N	142.86E	0	6.1s,6.0		
BJI	III	11 19 02 57.9	39.30N	142.70E	20	6.4,6.4s		
JMA	III	11 19 02 57.0–.30	39.35N	142.94E	9–3	6.3,6.4s		
MOS	III	11 19 02 58.6–1.1	39.38N	142.88E	32	6.3s,6.2b		
GCMT	III	11 19 02 59.2–.50	39.43N	143.01E	30–1	6.2W,6.2b		
NEIC	III	11 19 02 59.2–.35	39.34N	142.87E	27–2	6.2s,6.1b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ26.00000°,λ-64.00000°. NP2:ϕ_s245.00000°,δ67.00000°,λ-102.00000°. $M_0$1.77000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=150.0.
IDC Error ellipse: s-maj=11.0km s-min=8.9km az=96.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=102.2. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s97,c134; Duration: 3s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.84±.22 $M_{\theta\theta}$2.25±.12; $M_{\phi\phi}$0.58±.12; $M_{r\theta}$0.70±.15; $M_{\theta\phi}$0.45±.06; $M_{\phi r}$1.07±.19; Best double couple: NP1:ϕ_s241.00000°,δ57.00000° ,λ-104.00000°. NP2:ϕ_s86.00000°,δ36.00000°,λ-69.00000°. Principal axes: T 2.5400,Plg11.0000°,Azm341.0000°; N 0.6580,Plg12.0000°,Azm249.0000° ; P -3.2040,Plg74.0000°,Azm112.0000° $M_0$2.87200×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=129.0. Recorded [4 JMA] in Iwate and Miyagi. Moment Tensor Solution. s37 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.14 $M_{\theta\theta}$0.78 $M_{\phi\phi}$0.36 $M_{r\theta}$0.41 $M_{\theta\phi}$0.49 $M_{\phi r}$0.67 Best double couple: NP1:ϕ_s68.00000°,δ30.00000° ,λ-68.00000°. NP2:ϕ_s223.00000°,δ62.00000°,λ-102.00000°. Principal axes: T 1.3200,Plg17.0000°,Azm322.0000°; N 0.0900,Plg11.0000°,Azm229.0000° ; P -1.4200,Plg70.0000°,Azm108.0000° $M_0$1.40000×10^{18}

(226) Near west coast of eastern Honshu

JMA	**III**	**11 19 03 37.0–.10**	**37.05N**	**138.61E**	**9–3**	**4.1**		
								¶600540076

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**11 19 04 30.2–.10**	**36.96N**	**138.59E**	**8–2**	**3.8**		
								¶602653177

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 19 08 41.6–.40**	**36.31N–.03**	**140.94E–.04**	**28–2**	**5.3b**	**272**	**0-155**
NIED	III	11 19 08 00	36.30N	140.90E	26	5.3W		**¶602443428**
BJI	III	11 19 08 36.5	36.20N	141.00E	18	5.5b		
NEIC	III	11 19 08 38.7–2.3	36.26N	140.88E	9–14	5.5b		
ISCJB	III	11 19 08 40.6–.55	36.29N–.02	140.95E–.03	31–3	5.1b		
MOS	III	11 19 08 41.0–1.1	36.43N	140.95E	30	5.7b		
JMA	III	11 19 08 41.0	36.29N	140.95E	35–1	5.2		
IDC	III	11 19 08 42.7–.51	36.27N	140.80E	32–3	4.9,4.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ8.00000°,λ-77.00000°. NP2:ϕ_s201.00000°,δ82.00000°,λ-92.00000°. $M_0$8.64000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=135.0. Recorded [4 JMA] in Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.0km az=23.7.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=106.1.
JMA Event type fe.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=173.0.

(226) Near west coast of eastern Honshu

JMA	**III**	**11 19 09 27.0**	**37.00N**	**138.56E**	**9–3**	**4.5**		
								¶602707114

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**11 19 10 43.7–.20**	**36.94N**	**138.59E**	**0–2**	**4.2**		
								¶602653163

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 19 10 49.3–.89**	**38.4N–.10**	**144.1E–.10**	**14**	**4.6b**	**25**	**9-83**
IDC	III	11 19 10 46.8–.73	38.23N	144.08E	0	4.5,4.4		**¶16451970**
ISCJB	III	11 19 10 47.5–.68	38.2N–.10	144.0E–.10	14	4.5b,4.4		
NEIC	III	11 19 10 52.3–.75	38.16N	144.02E	35	5.0b,4.4		

ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=17.6km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=13.8km az=2.9.
NEIC Event type fe. Error ellipse: s-maj=17.0km s-min=16.6km az=114.0. Recorded [4 JMA] in Nagano.

(227) Eastern Honshu

JMA	**III**	**11 19 11 25.9**	**36.95N**	**138.59E**	**6–3**	**3.7**		
								¶602653157

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 19 12 35.2–1.4**	**37.3N–.20**	**143.8E–.10**	**35**	**4.3b**	**13**	**10-88**
IDC	III	11 19 12 26.9–.79	36.67N	143.77E	0	4.5,4.2		**¶16451971**
NEIC	III	11 19 12 32.5–.82	36.84N	143.76E	35	4.5b,4.2		

ISC Event type se.
IDC Error ellipse: s-maj=28.4km s-min=19.9km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=23.1km s-min=18.4km az=112.0. Recorded [4 JMA] in Nagano and Niigata.

(226) Near west coast of eastern Honshu

ISC	**III**	**11 19 12 43.1–1.3**	**37.03N–.03**	**138.57E–.05**	**4–9**	**4.5b**	**32**	**0-92**
IDC	III	11 19 12 42.5–.61	37.12N	138.40E	0	4.5,4.3		**¶17194045**
ISCJB	III	11 19 12 43.2–.72	37.07N–.03	138.56E–.04	15–4	4.4b,4.3		
JMA	III	11 19 12 44.7	37.03N	138.67E	12–2	4.3,4.3		

ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=7.8km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=28.8.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 19 13 50.3**	**36.94N**	**140.73E**	**27–1**	**3.5**		
								¶602653155

JMA Event type fe.

(227) Eastern Honshu

JMA	**III**	**11 19 15 20.0**	**36.95N**	**138.61E**	**0**	**3.6**		
								¶602653143

JMA Event type fe.

(226) Near west coast of eastern Honshu

JMA	**III**	**11 19 16 10.5–.10**	**37.06N**	**138.59E**	**12–2**	**3.6**		
								¶602653134

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 19 16 17.4–1.4 37.27N–.05 141.17E–.10 30–7 3.9b 23 0-74
IDC III 11 19 16 09.2–1.2 36.61N 141.17E 0 4.9s,4.9 **¶17194046**
ISCJB III 11 19 16 16.3–1.0 37.23N–.04 141.25E–.08 32–4 5.0s,3.9b
JMA III 11 19 16 18.4–.10 37.31N 141.09E 29–1 4.0,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=25.7km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.9km az=17.8.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 19 19 55.3–.20 37.22N 141.57E 46–3 3.8
¶603049471
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(226) Near west coast of eastern Honshu
ISC III 11 19 21 08.7–1.2 37.03N–.03 138.66E–.04 8–10 4.1b 22 0-69
IDC III 11 19 21 07.2–1.6 37.09N 138.68E 0 4.1,4.0 **¶602653123**
ISCJB III 11 19 21 09.0–.46 37.03N–.03 138.60E–.04 27–5 4.0b,4.0
JMA III 11 19 21 09.3–.10 37.04N 138.63E 13–2 3.7,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=13.9km s-min=11.4km az=21.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.8km az=44.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 19 23 34.0–.73 38.33N–.08 141.90E–.08 35 4.2b 32 1-146
IDC III 11 19 23 25.6–.74 37.76N 141.85E 0 5.1,5.1s **¶16451964**
NEIC III 11 19 23 26.8–.47 37.73N 141.82E 10 4.3b,5.1s
ISCJB III 11 19 23 32.6–.56 38.40N–.05 141.95E–.07 35 4.2b,5.1s
JMA III 11 19 23 35.5–.10 38.34N 141.80E 50–2 4.2,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.9km az=83.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=9.7km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.4km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 19 24 29.2–.52 35.72N–.03 140.85E–.03 32–3 5.6b 1282 0-158
NIED III 11 19 24 00 35.80N 141.00E 38 5.8W **¶602653105**
BJI III 11 19 24 22.7 35.65N 141.19E 25 5.8s,5.7
NEIC III 11 19 24 24.5–1.3 35.69N 140.66E 2–8 5.5b,5.7
IDC III 11 19 24 24.1–.34 35.70N 140.85E 0 5.8,5.7s
ISCJB III 11 19 24 27.5–.08 35.63N–.02 140.75E–.02 33 5.8s,5.5b
MOS III 11 19 24 27.6–.92 35.74N 140.71E 31 5.8b,5.5b
JMA III 11 19 24 28.1–.10 35.76N 141.04E 35–1 5.7,5.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ12.00000°,λ128.00000°. NP2:ϕ_s16.00000°,δ80.00000°,λ82.00000°. $M_0$6.56000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=139.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=10.8km s-min=9.6km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=147.9.
MOS Error ellipse: s-maj=6.2km s-min=3.7km az=105.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 19 26 02.5–.10 37.02N 138.66E 11–3 3.7
¶602653098
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 19 27 17.1–.10 35.72N 140.99E 36–1 3.7
¶602653097
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
JMA III 11 19 31 34.0 36.94N 138.58E 0 3.1
¶602653073
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 19 31 38.8–.79 36.69N–.07 141.48E–.08 26 4.0b 24 1-147
IDC III 11 19 31 35.0–.96 36.72N 141.51E 0 4.3,4.0 **¶16308465**
ISCJB III 11 19 31 36.9–.64 36.63N–.06 141.57E–.07 26 3.9b,4.0
JMA III 11 19 31 41.1–.20 36.70N 141.34E 47–2 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=40.6km s-min=29.9km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=7.1km az=37.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(227) Eastern Honshu
ISC III 11 19 31 56.2–.48 36.94N–.02 138.51E–.03 15–2 5.4b 1065 0-158
NIED III 11 19 31 00 36.90N 138.60E 5 5.6W **¶17194054**
IDC III 11 19 31 54.1–.32 36.99N 138.39E 0 5.2s,5.2
ISCJB III 11 19 31 54.9–.46 36.93N–.02 138.41E–.02 15–3 6.1s,5.3b
BJI III 11 19 31 55.8 36.90N 138.30E 12 5.8s,5.6b
JMA III 11 19 31 55.6–.20 36.95N 138.57E 1–3 5.9,5.6b
MOS III 11 19 31 56.9–1.1 36.94N 138.37E 29 5.6b,5.6b
NEIC III 11 19 31 56.2–.71 36.94N 138.30E 12–4 5.7s,5.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ51.00000°,λ141.00000°. NP2:ϕ_s23.00000°,δ61.00000°,λ46.00000°. $M_0$2.63000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=140.1.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=125.0. Recorded [6L JMA] in Nagano.
(228) Near east coast of eastern Honshu
JMA III 11 19 34 42.4–.10 37.00N 141.24E 38–1 3.5
¶602652620
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(227) Eastern Honshu
JMA III 11 19 34 55.2 36.95N 138.55E 0 3.6
¶602652619
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 11 19 35 53.7–.10 36.37N 141.02E 45–2 3.8
¶602652613
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 19 36 08.0 37.00N 138.59E 10–2 3.4
¶602652612
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 11 19 39 31.4–.78 39.38N–.07 143.1E–.10 18 4.1b 31 2-88
IDC III 11 19 39 28.5–1.0 39.34N 143.22E 0 4.2,4.0 **¶16313890**
JMA III 11 19 39 31.5–.30 39.40N 143.19E 9–5 4.6,4.0
NEIC III 11 19 39 33.3–.67 39.35N 143.20E 35 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=20.4km az=150.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=9.8km az=119.0.
(228) Near east coast of eastern Honshu
JMA III 11 19 40 16.8–.20 37.70N 141.76E 44–3 4.1
¶603049476
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 19 40 30.6 37.00N 138.62E 11–2 2.6
¶603049474
JMA Event type fe.
(227) Eastern Honshu
ISC III 11 19 44 28.2–1.1 36.88N–.03 138.67E–.04 9–7 4.3b 32 0-92
IDC III 11 19 44 26.6–.77 37.00N 138.60E 0 4.3,4.1 **¶16476146**
NEIC III 11 19 44 27.7–2.9 36.79N 138.80E 6–17 4.6b,4.1
JMA III 11 19 44 28.3 36.94N 138.60E 0 4.2,4.1
ISCJB III 11 19 44 28.4–.39 36.90N–.03 138.59E–.04 24–3 4.1b,4.1
ISC Event type se.
NEIC Event type fe. Recorded [4 JMA] in Nagano and Niigata.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu
ISC III 11 19 45 21.4–.79 37.49N–.03 141.75E–.04 15–4 5.1b 754 1-155
IDC III 11 19 45 19.4–.40 37.50N 141.62E 0 6.0,6.0s **¶602652584**
NEIC III 11 19 45 21.8–1.9 37.56N 141.58E 12–12 5.2b,6.0s
BJI III 11 19 45 21.7 37.47N 141.60E 27 5.5b,5.3s
ISCJB III 11 19 45 22.6–.76 37.70N–.03 141.58E–.03 24–5 5.8s,5.0b
JMA III 11 19 45 22.4–.20 37.49N 141.67E 26–2 5.2,5.0b
MOS III 11 19 45 24.6–.90 37.87N 141.56E 33 5.3b,5.0b
ISC Event type ke.
IDC Error ellipse: s-maj=11.1km s-min=10.7km az=115.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=141.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.0km az=158.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.9km az=90.8.
(226) Near west coast of eastern Honshu
JMA III 11 19 46 17.3–.10 37.03N 138.60E 14–2 4.1
¶16308466
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(226) Near west coast of eastern Honshu
ISC III 11 19 46 50.1–.95 40.40N–.02 139.15E–.03 11–5 6.1s,6.1b 1459 1-164
NIED III 11 19 46 00 40.40N 139.10E 5 6.1W,6.1b **¶16476158**
JMA III 11 19 46 46.1–.30 40.39N 139.09E 4–3 6.4,6.1b
BJI III 11 19 46 48.7 40.30N 139.20E 20 6.5s,6.4
IDC III 11 19 46 49.1–.30 40.50N 139.18E 0 5.9,5.9s
ISCJB III 11 19 46 50.6–.07 40.51N–.01 139.16E–.02 21 6.2s,6.0b
GCMT III 11 19 46 50.9–.20 40.37N 139.09E 14–1 6.2W,6.0b
NEIC III 11 19 46 50.9–.10 40.48N 139.06E 10 6.2b,6.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ63.00000°,λ-12.00000°. NP2:ϕ_s26.00000°,δ79.00000°,λ-152.00000°. $M_0$1.60000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=9.4km s-min=7.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c70; s136,c265; Duration: 3π1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.00±.05 $M_{\theta\theta}$1.92±.05; $M_{\phi\phi}$-1.92±.05; $M_{r\theta}$0.42±.12; $M_{\theta\phi}$1.48±.05; $M_{\phi r}$-0.47±.12; Best double couple: NP1:ϕ_s296.00000°,δ85.00000°,λ-13.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ-175.00000°. Principal axes: T 2.4490,Plg6.0000°,Azm342.0000°; N 0.1050,Plg76.0000°,Azm96.0000° ; P -2.5570,Plg13.0000°,Azm251.0000° $M_0$2.50300×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=135.0. Felt at Goshogawara, Misawa, Nagano, Nakanojo and Yokosuka. Also felt at Sapporo, Hokkaido. Recorded [4 JMA] in Akita, Aomori and Nagano, Honshu.
(227) Eastern Honshu
JMA III 11 19 49 21.0–.10 36.92N 138.58E 2–2 3.9
¶602652583
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 19 52 49.4–.50 36.07N–.04 141.29E–.06 26 4.4b 47 1-152
IDC III 11 19 52 45.5–.56 36.00N 141.29E 0 4.5,4.4 **¶602652570**
NEIC III 11 19 52 46.2–3.4 35.98N 141.29E 4–21 4.9b,4.4
ISCJB III 11 19 52 47.9–.40 36.07N–.03 141.35E–.05 26 4.5b,4.4
JMA III 11 19 52 48.9–.10 36.03N 141.26E 39–2 4.3,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.8km s-min=14.4km az=104.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=8.1km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=28.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 19 54 22.0–1.1 36.45N–.07 141.84E–.08 19 4.1b 16 1-75
ISCJB III 11 19 54 20.1–.92 36.47N–.07 141.99E–.07 19 4.0b **¶17194062**
IDC III 11 19 54 21.1–1.1 36.94N 141.88E 0 4.3L,4.2
JMA III 11 19 54 22.7–.20 36.45N 141.76E 76–4 3.7,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=8.2km az=150.5.
IDC Error ellipse: s-maj=30.9km s-min=26.3km az=28.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(227) Eastern Honshu
JMA III 11 19 57 52.0 36.92N 138.54E 0 3.8
¶602652558
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 11 19 58 49.1–.67 36.31N–.02 141.06E–.04 27–4 4.6b 110 0-147
IDC III 11 19 58 44.8–.60 36.22N 141.01E 0 4.6,4.5 **¶602652551**
JMA III 11 19 58 49.2–.10 36.26N 141.05E 43–1 4.8,4.5
ISCJB III 11 19 58 49.4–.49 36.26N–.02 141.07E–.04 45–3 4.5b,4.5
NEIC III 11 19 58 52.1–1.1 36.19N 141.00E 56–10 4.9b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=174.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.7km az=8.7.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.9km az=108.0.
(227) Eastern Honshu
JMA III 11 19 59 08.5 36.92N 138.56E 0 2.5
¶600540220
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 19 59 59.9–.20 36.77N 141.29E 42–2 3.7
¶602652550
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 20 03 16.9 37.02N 138.61E 9–3 3.8
¶602652539
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 11 20 03 23.2–.30 40.32N 139.12E 23–5 4.4
¶603145346
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 20 05 47.7–.10 37.28N 141.08E 23–1 2.9
¶603049480
JMA Event type fe.
(226) Near west coast of eastern Honshu
ISC III 11 20 08 32.3–.52 40.65N–.07 139.17E–.06 15 4.5b 67 1-146
IDC III 11 20 08 29.9–.59 40.63N 139.12E 0 4.5,4.3 **¶602652517**
JMA III 11 20 08 29.2–.20 40.33N 139.14E 28–3 4.8,4.3
NEIC III 11 20 08 31.6–2.1 40.58N 139.13E 12–13 4.9b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=16.0km s-min=12.2km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=127.0. Recorded [3 JMA] in Aomori.
(228) Near east coast of eastern Honshu
JMA III 11 20 09 34.4–.30 37.35N 141.75E 51 3.8
¶602652513
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 11 20 10 12.1–.10 37.44N 141.26E 27–1 4.1
¶602652507
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 20 11 23.5–.51 39.01N–.03 142.78E–.03 15–3 6.0s,6.0b 1810 2-161
NIED III 11 20 11 00 38.90N 142.80E 5 6.0W,6.0b **¶16308469**
BJI III 11 20 11 20.1 38.90N 142.70E 10 6.6b,6.3s
ISCJB III 11 20 11 21.3–.07 39.01N–.02 142.72E–.02 10 6.0s,5.9b
JMA III 11 20 11 21.3–.30 38.97N 142.76E 6–3 6.4,5.9b
GCMT III 11 20 11 24.1–.20 38.98N 142.68E 12 6.1W,5.9b
NEIC III 11 20 11 24.1–1.5 39.01N 142.63E 17–9 5.9b,5.8s
MOS III 11 20 11 25.4–.91 39.02N 142.65E 38 6.2s,6.1b
IDC III 11 20 11 28.1–1.5 39.02N 142.66E 48–14 5.9,5.9s

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ41.00000°,λ-93.00000°. NP2:ϕ_s133.00000°,δ49.00000°,λ-87.00000°. $M_0$1.23000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.5km az=155.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c68; s127,c242; Duration: 2s8 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.93±.04 $M_{\theta\theta}$1.08±.04; $M_{\phi\phi}$0.85±.04; $M_{r\theta}$0.41±.14; $M_{\theta\phi}$-0.73±.03; $M_{\phi r}$0.03±.16; Best double couple: NP1:ϕ_s303.00000°,δ50.00000°,λ-100.00000°. NP2:ϕ_s138.00000°,δ41.00000°,λ-79.00000°. Principal axes: T 1.7240,Plg5.0000°,Azm40.0000°; N 0.2680,Plg7.0000°,Azm309.0000°; P -1.9900,Plg81.0000°,Azm161.0000° $M_0$1.85700×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=132.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=5.5km s-min=3.7km az=100.1.
IDC Error ellipse: s-maj=10.1km s-min=6.7km az=93.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 13 41.8–.10**	**36.89N**	**141.04E**	**49–1**	**3.5**		
								¶602652493

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**III**	**11 20 20 54.1–1.1**	**36.98N–.03**	**138.62E–.03**	**8–8**	**3.9b**	**23**	**0-82**
IDC	III	11 20 20 52.7–1.1	37.03N	138.60E	0	4.1,3.8		**¶17194082**
ISCJB	III	11 20 20 53.8–.45	36.97N–.03	138.62E–.04	20–5	3.8b,3.8		
JMA	III	11 20 20 54.0	36.99N	138.62E	7–2	3.6,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=32.5km s-min=9.3km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=34.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 20 22 40.4–.48**	**38.58N–.06**	**141.90E–.06**	**41**	**4.5b**	**74**	**1-146**
ISCJB	III	11 20 22 38.5–.34	38.61N–.04	141.98E–.05	41	4.5b		**¶16461257**
JMA	III	11 20 22 41.0–.10	38.57N	141.88E	50–2	4.6		
NEIC	III	11 20 22 42.4–.75	38.56N	141.90E	63–7	4.7b		
IDC	III	11 20 22 43.1–2.5	38.52N	141.78E	67–23	4.4,4.2		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=142.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.3km az=108.0.
IDC Error ellipse: s-maj=13.9km s-min=11.9km az=103.0.

(229) Off east coast of Honshu

ISC	**III**	**11 20 22 54.2–.71**	**37.6N–.10**	**143.42E–.09**	**35**	**4.5b**	**38**	**2-145**
IDC	III	11 20 22 49.1–.64	37.68N	143.51E	0	4.5,4.4		**¶16476149**
NEIC	III	11 20 22 52.4–4.3	37.62N	143.47E	22–30	4.9b,4.4		
ISCJB	III	11 20 22 52.2–.53	37.62N–.08	143.36E–.08	33	4.5b,4.4		
JMA	III	11 20 22 55.9–.30	37.44N	142.53E	52	4.9,4.4		

ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=13.6km az=148.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=11.7km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.4km az=154.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 20 23 44.3–.36**	**35.84N–.03**	**141.66E–.03**	**29–2**	**5.5b**	**1125**	**1-154**
NIED	III	11 20 23 00	36.00N	141.90E	11	5.1W		**¶16308470**
NEIC	III	11 20 23 41.3–1.6	35.81N	141.61E	8–10	5.7s,5.5b		
BJI	III	11 20 23 42.2	35.85N	141.41E	16	5.9s,5.7		
MOS	III	11 20 23 43.8–.85	35.92N	141.65E	33	5.6b,5.7		
ISCJB	III	11 20 23 43.0–.72	35.82N–.02	141.65E–.02	29–5	5.8s,5.4b		
JMA	III	11 20 23 43.1–.40	35.96N	141.66E	10–5	5.4,5.4b		
IDC	III	11 20 23 44.7–.35	35.85N	141.65E	28–2	5.2,5.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ43.00000°,λ60.00000°. NP2:ϕ_s43.00000°,δ53.00000°,λ115.00000°. $M_0$5.04000×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=133.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=146.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=9.4km s-min=8.1km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 20 25 20.5–2.1**	**36.96N–.04**	**141.87E–.09**	**24–13**	**4.9b**	**48**	**1-118**
ISCJB	III	11 20 25 17.8–1.3	36.98N–.04	142.08E–.06	18–8	4.8b		**¶16476150**
JMA	III	11 20 25 21.1–.30	37.08N	141.89E	28–3	5.1		
IDC	III	11 20 25 23.7–3.6	36.93N	142.00E	52–29	4.8,4.6		
NEIC	III	11 20 25 24.3–1.7	36.90N	141.97E	59–13	5.2b,4.6		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.4km az=158.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=15.7km az=76.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=8.8km az=75.0.

(229) Off east coast of Honshu

ISC	**III**	**11 20 26 20.3–.35**	**37.71N–.05**	**143.45E–.05**	**35**	**5.2b**	**286**	**2-145**
NEIC	III	11 20 26 16.7–2.7	37.68N	143.34E	6–16	5.4b		**¶602652458**
IDC	III	11 20 26 16.1–.52	37.71N	143.42E	0	5.0,4.9		
MOS	III	11 20 26 19.8–1.0	37.80N	143.37E	33	5.5b,4.9		
ISCJB	III	11 20 26 19.3–.22	37.66N–.04	143.34E–.03	33	5.2b,4.9		
JMA	III	11 20 26 52.2–.20	37.65N	141.62E	44–3	4.9,4.9		

ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=134.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=12.7km az=129.0.
MOS Error ellipse: s-maj=8.3km s-min=5.5km az=107.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.5km az=161.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 27 16.3–.30**	**37.65N**	**141.98E**	**28**	**4.8**		
								¶16313891

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 28 17.8–.10**	**36.05N**	**141.09E**	**40–2**	**3.8**		
								¶602652454

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 28 59.1–.10**	**38.70N**	**141.74E**	**52–2**	**4.4**		
								¶602652453

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**11 20 30 37.6–.72**	**37.47N–.09**	**143.69E–.08**	**35**	**4.6b**	**37**	**2-118**
IDC	III	11 20 30 32.6–.86	37.57N	143.83E	0	4.5,4.4b		**¶16476151**
ISCJB	III	11 20 30 35.6–.53	37.42N–.06	143.67E–.06	33	4.5b,4.4b		
JMA	III	11 20 30 37.7–.20	37.38N	143.22E	0	4.8,4.4b		
NEIC	III	11 20 30 37.8–.50	37.53N	143.86E	35	4.8b,4.4b		

ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=19.0km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=4.9km az=150.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.3km az=148.0.

(227) Eastern Honshu

JMA	**III**	**11 20 34 32.3**	**36.94N**	**138.59E**	**7–1**	**2.4**		
								¶603049484

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 20 34 41.6–.32**	**37.00N–.03**	**141.16E–.04**	**36–1**	**5.1b**	**520**	**0-155**
NIED	III	11 20 34 00	37.00N	141.20E	47	5.0W		**¶600540284**
BJI	III	11 20 34 34.1	36.86N	141.47E	20	5.5s,5.3		
MOS	III	11 20 34 40.7–.97	37.02N	141.14E	43	5.3b,5.3		
JMA	III	11 20 34 41.8–.10	36.95N	141.22E	49–1	5.1,5.3		
NEIC	III	11 20 34 42.0–.24	37.00N	141.12E	37–2	5.1b,5.3		
IDC	III	11 20 34 42.9–1.7	36.96N	141.11E	50–16	5.0,4.7		
ISCJB	III	11 20 34 42.6–.32	37.04N–.02	141.08E–.03	55–2	5.1s,5.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ14.00000°,λ29.00000°. NP2:ϕ_s43.00000°,δ84.00000°,λ102.00000°. $M_0$4.07000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Nagano, Tochigi and Tokyo.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 20 36 08.6–.47**	**37.89N–.03**	**142.92E–.03**	**17–2**	**5.5s,5.5b**	**993**	**2-159**
ISCJB	III	11 20 36 04.6–1.2	37.83N–.02	142.89E–.02	1–7	5.5b,5.4s		**¶16308473**
IDC	III	11 20 36 06.0–.36	37.82N	142.91E	0	5.3,5.2		
BJI	III	11 20 36 07.7	37.89N	142.93E	30	5.8b,5.7s		
JMA	III	11 20 36 09.0–.40	37.80N	142.73E	4	5.6,5.7s		
NEIC	III	11 20 36 10.3–1.2	37.83N	142.83E	26–8	5.5b,5.7s		
MOS	III	11 20 36 10.2–.94	37.97N	142.85E	33	5.6b,5.3s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.1.
IDC Error ellipse: s-maj=11.8km s-min=9.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.5km az=131.0.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=104.9.

(227) Eastern Honshu

JMA	**III**	**11 20 36 14.1**	**36.94N**	**138.57E**	**6–1**	**3.6**		
								¶602652431

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 40 28.5–.10**	**37.35N**	**141.15E**	**11–1**	**3.2**		
								¶603049486

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 20 41 07.8–.61**	**37.83N–.06**	**142.45E–.07**	**21**	**4.0b**	**34**	**2-89**
IDC	III	11 20 41 03.9–.66	37.72N	142.75E	0	4.1,4.0		**¶602652414**
NEIC	III	11 20 41 05.2–.49	37.67N	142.62E	10	4.6b,4.0		
ISCJB	III	11 20 41 05.6–.46	37.73N–.05	142.43E–.06	21	3.9b,4.0		
JMA	III	11 20 41 08.4–.30	37.96N	142.32E	19	4.6,4.0		

ISC Event type ke.
IDC Error ellipse: s-maj=18.7km s-min=14.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.8km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.4km az=21.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 20 42 40.5–.46**	**38.27N–.06**	**142.29E–.07**	**24**	**4.6b**	**51**	**1-145**
NEIC	III	11 20 42 38.6–.25	38.28N	142.26E	10	5.0b		**¶602652412**
ISCJB	III	11 20 42 38.7–.34	38.21N–.05	142.25E–.06	24	4.6b		
JMA	III	11 20 42 41.4–.20	38.46N	142.26E	34–4	5.0		
IDC	III	11 20 42 42.4–5.9	38.33N	142.23E	33–44	4.5,4.5		

ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.6km az=104.0. Recorded [6L JMA] in Nagano.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.2km az=30.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=12.0km az=106.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 43 00.7–.10**	**36.68N**	**140.99E**	**43–1**	**3.6**		
								¶16461349

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**11 20 45 12.7–.47**	**36.49N–.05**	**142.13E–.06**	**19**	**4.7b**	**92**	**1-146**
IDC	III	11 20 45 10.2–.61	36.60N	142.05E	0	4.7,4.7		**¶602652409**
JMA	III	11 20 45 11.4–.20	36.65N	142.17E	23	4.8,4.7		
ISCJB	III	11 20 45 11.2–.30	36.50N–.04	142.14E–.04	19	4.6b,4.7		
NEIC	III	11 20 45 15.8–.99	36.49N	142.08E	42–9	4.8b,4.7		

ISC Event type ke.
IDC Error ellipse: s-maj=16.5km s-min=14.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.6km az=137.9.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.5km az=75.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 49 13.5–.10**	**37.26N**	**141.09E**	**31–1**	**4.0**		
								¶602652400

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 51 55.6–.10**	**36.39N**	**141.08E**	**19–1**	**3.7**		
								¶603049490

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 55 02.6–.10**	**36.32N**	**140.94E**	**44–1**	**3.6**		
								¶603049491

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**11 20 56 26.0–1.1**	**36.99N–.04**	**138.62E–.04**	**8–19**		**11**	**0-60**
JMA	III	11 20 56 25.9	36.98N	138.62E	10–1	3.0		**¶602652375**
ISCJB	III	11 20 56 26.1–.62	36.97N–.03	138.63E–.05	2–9	3.9b		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 20 57 33.6–.10**	**36.60N**	**140.98E**	**47–1**	**3.7**		
								¶602652369

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 21 00 44.4–.46**	**39.10N–.04**	**142.56E–.04**	**19–1**	**5.3b,5.3s**	**836**	**2-165**
IDC	III	11 21 00 40.9–.56	39.00N	142.65E	0	5.0,4.9		**¶602652360**
JMA	III	11 21 00 41.5–.30	39.02N	142.70E	12–2	5.5,4.9		
BJI	III	11 21 00 41.0	38.95N	142.79E	24	5.8b,5.4s		
NEIC	III	11 21 00 44.0–.68	39.00N	142.48E	17–4	5.4b,5.3s		
ISCJB	III	11 21 00 45.1–.10	39.07N–.02	142.56E–.02	33	5.3s,5.2b		
MOS	III	11 21 00 45.3–1.1	39.07N	142.49E	36	5.5b,5.2s		

ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=12.0km az=154.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=146.0. Recorded [3 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=152.3.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=104.5.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 21 04 30.4–.10**	**36.61N**	**140.97E**	**45–1**	**3.8**		
								¶603049492

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**11 21 08 45.6–.10**	**37.44N**	**141.32E**	**31–1**	**3.8**		
								¶603049493

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 21 09 28.4–.74**	**37.0N–.10**	**141.1E–.20**	**83**	**4.1b**	**21**	**0-90**
IDC	III	11 21 09 18.2–.80	36.99N	141.42E	0	4.4,4.1		**¶602652345**
JMA	III	11 21 09 19.0–.10	36.05N	141.39E	47–2	4.4,4.1		
NEIC	III	11 21 09 24.5–2.0	36.98N	141.43E	43–17	4.2b,4.1		

ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=21.6km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=14.1km az=105.0.

(226) Near west coast of eastern Honshu

JMA	**III**	**11 21 09 50.0–.10**	**37.00N**	**138.62E**	**12–2**	**2.6**		
								¶602652347

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**11 21 11 06.9**	**36.94N**	**138.53E**	**7–1**	**3.7**		
								¶602652344

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**11 21 16 25.4–.90**	**35.74N–.04**	**140.94E–.06**	**34–3**	**4.2b**	**71**	**0-148**
NIED	III	11 21 16 00	35.80N	141.10E	41	4.7W		**¶16409241**
IDC	III	11 21 16 19.9–.63	35.68N	140.92E	0	4.6s,4.6		
NEIC	III	11 21 16 23.4–1.4	35.67N	140.90E	21–10	4.2b,4.6		

ISCJB III 11 21 16 24.9–.44 35.78N–.03 140.90E–.06 44–4 4.1b,4.6
JMA III 11 21 16 24.7–.20 35.76N 141.02E 33–1 4.2,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ11.00000°,λ166.00000°. NP2:ϕ_s358.00000°,δ87.00000°,λ79.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=19.1km s-min=14.0km az=74.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.2km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.8km az=171.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 21 18 52.8–.10 36.12N 140.90E 37–2 3.5 ¶603049496

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA III 11 21 19 20.3 36.92N 138.52E 0 3.7 ¶602652326

JMA Event type fe.

(229) Off east coast of Honshu

ISC III 11 21 20 02.3–.86 37.6N–.20 144.4E–.10 35 4.1b 21 5-75
IDC III 11 21 19 56.9–.96 37.67N 144.42E 0 5.1L,4.3 **¶17194109**
ISCJB III 11 21 20 00.1–.54 37.60N–.10 144.4E–.10 33 4.1b,4.3
NEIC III 11 21 20 02.3–.39 37.63N 144.36E 35 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=23.3km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=10.0km az=151.3.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=149.0. Recorded [3 JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC III 11 21 21 36.5–.57 39.50N–.06 142.62E–.08 29 4.2b 53 2-83
ISCJB III 11 21 21 34.9–.37 39.55N–.05 142.73E–.06 29 4.2b **¶602652323**
JMA III 11 21 21 35.8–.10 39.48N 142.59E 30–2 4.4
IDC III 11 21 21 38.8–2.5 39.56N 142.57E 47–25 4.1,4.0
NEIC III 11 21 21 40.6–.78 39.46N 142.62E 68–7 4.2b,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.3km az=137.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=123.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=134.0.

(228) Near east coast of eastern Honshu

ISC III 11 21 29 28.0–.72 39.13N–.09 142.40E–.09 27 4.3b 54 2-80
ISCJB III 11 21 29 26.1–.55 39.18N–.07 142.43E–.08 27 4.2b **¶16409243**
JMA III 11 21 29 28.3–.10 39.16N 142.35E 33–1 4.7
NEIC III 11 21 29 30.7–1.1 39.13N 142.30E 49–9 4.3b
IDC III 11 21 29 30.8–2.8 39.10N 142.30E 51–24 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.4km az=141.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.4km az=133.0.
IDC Error ellipse: s-maj=16.3km s-min=13.2km az=122.0.

(227) Eastern Honshu

JMA III 11 21 30 01.6–.10 36.93N 138.54E 3–2 3.1 ¶602652303

JMA Event type fe.

(227) Eastern Honshu

JMA III 11 21 30 43.9 36.96N 138.60E 5–2 3.0 ¶603049497

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 21 34 20.8–.69 37.41N–.04 141.47E–.04 12–4 4.8b 262 0-155
NIED III 11 21 34 00 37.40N 141.30E 11 4.5W **¶602652788**
IDC III 11 21 34 19.1–.42 37.45N 141.35E 0 4.6,4.5
NEIC III 11 21 34 21.8–2.3 37.39N 141.30E 15–14 4.9b,4.5
ISCJB III 11 21 34 22.1–.61 37.40N–.03 141.30E–.04 27–4 4.7b,4.5
JMA III 11 21 34 22.2–.10 37.45N 141.31E 23–1 4.8,4.5
MOS III 11 21 34 23.0–1.0 37.78N 141.31E 23 5.0b,4.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ54.00000°,λ-37.00000°. NP2:ϕ_s259.00000°,δ61.00000°,λ-138.00000°. $M_0$7.48000×10^{15}
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.3km az=147.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=33.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=6.1km az=89.9.

(227) Eastern Honshu

JMA III 11 21 34 45.1 36.97N 138.58E 7–2 3.5 ¶16308477

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 21 41 58.8–.82 37.28N–.04 142.43E–.04 20–3 5.3b,5.2s 1001 1-164
NIED III 11 21 41 00 37.20N 142.50E 8 5.4W,5.2s **¶17194115**
BJI III 11 21 41 54.2 37.26N 142.34E 8 5.7b,5.5s
JMA III 11 21 41 54.6–.30 37.28N 142.53E 2 5.6,5.5s
IDC III 11 21 41 55.2–.44 37.22N 142.43E 0 5.1,5.1b
ISCJB III 11 21 41 55.0–.74 37.25N–.02 142.44E–.02 5–4 5.2b,5.2s
MOS III 11 21 42 00.9–.98 37.58N 142.32E 36 5.6b,5.2s
NEIC III 11 21 42 00.1–1.2 37.26N 142.30E 28–8 5.2b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ30.00000°,λ-174.00000°. NP2:ϕ_s39.00000°,δ87.00000°,λ-60.00000°. $M_0$1.48000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.1km s-min=10.0km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=161.0.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=104.4.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=148.0.

(227) Eastern Honshu

JMA III 11 21 46 55.8–.10 36.98N 138.60E 8–1 2.0 ¶603049498

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 21 48 40.9–1.0 35.86N–.04 140.91E–.06 12–6 4.2b 57 0-148
NIED III 11 21 48 00 35.90N 141.00E 5 4.5W **¶16425254**
IDC III 11 21 48 38.4–.75 35.72N 140.90E 0 4.4,4.2
ISCJB III 11 21 48 40.8–.63 35.86N–.04 140.92E–.05 20–4 4.2b,4.2
JMA III 11 21 48 40.2–.10 35.87N 140.96E 11–2 4.6,4.2
NEIC III 11 21 48 42.2–3.2 35.76N 140.84E 22–22 4.6,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ35.00000°,λ-84.00000°. NP2:ϕ_s357.00000°,δ55.00000°,λ-94.00000°. $M_0$6.34000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=19.9km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=7.0km az=144.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=7.7km az=156.0. Recorded [3 JMA] in Chiba.

(228) Near east coast of eastern Honshu

JMA III 11 21 50 50.4 36.46N 140.71E 13–1 3.7 ¶602652293

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 21 51 52.0–.54 36.50N–.06 141.36E–.06 26 4.2b 41 1-147
ISCJB III 11 21 51 50.1–.39 36.45N–.05 141.45E–.05 26 4.1b **¶16425255**
JMA III 11 21 51 52.5–.10 36.47N 141.27E 42–2 4.0
IDC III 11 21 51 54.5–2.3 36.44N 141.25E 49–23 4.1L,4.0
NEIC III 11 21 51 55.3–1.6 36.45N 141.31E 54–14 4.1L,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.3km az=178.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.5km s-min=12.7km az=83.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.4km az=94.0.

(228) Near east coast of eastern Honshu

ISC III 11 21 54 36.4–1.4 36.70N–.03 141.10E–.05 29–9 4.3b 77 0-85
JMA III 11 21 54 37.8–.10 36.69N 141.12E 43–1 4.2 **¶16425256**
IDC III 11 21 54 39.4–3.5 36.66N 141.04E 56–31 4.2,4.1L
NEIC III 11 21 54 39.3–.94 36.68N 141.08E 55–8 4.2,4.1L
ISC Event type se.
JMA Event type fe.
IDC Error ellipse: s-maj=19.0km s-min=14.4km az=78.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.7km az=51.0.

(226) Near west coast of eastern Honshu

JMA III 11 21 55 12.7–.10 37.06N 138.64E 12–2 3.0 ¶603049500

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 21 55 55.8–1.2 36.98N–.04 140.83E–.07 17–6 3.9b 21 0-69
IDC III 11 21 55 43.5–1.4 37.18N 142.78E 0 4.0,3.8 **¶16476650**
ISCJB III 11 21 55 54.6–1.2 36.93N–.04 140.98E–.08 17–6 3.8b,3.8
JMA III 11 21 55 56.0 36.98N 140.85E 14–1 4.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=31.8km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=6.2km az=21.6.
JMA Event type fe.

(229) Off east coast of Honshu

ISC III 11 22 01 28.3–.54 37.73N–.07 143.08E–.09 18 4.1b 43 4-89
IDC III 11 22 01 25.3–.76 37.71N 143.17E 0 4.1,4.0 **¶16425262**
ISCJB III 11 22 01 26.4–.39 37.71N–.05 143.03E–.07 18 4.1b,4.0
NEIC III 11 22 01 30.8–.28 37.79N 143.04E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=16.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.6km az=33.9.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.8km az=161.0. Recorded [4 JMA] in Nagano.

(227) Eastern Honshu

ISC III 11 22 01 45.2–1.3 36.97N–.04 138.63E–.04 12–12 22 0-65
IDC III 11 22 01 42.6–1.4 37.05N 138.71E 0 3.8,3.6 **¶17194125**
JMA III 11 22 01 46.5 36.94N 138.61E 4–1 3.9,3.6
ISCJB III 11 22 01 46.3–.48 36.91N–.03 138.60E–.04 9–7 3.7b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 22 04 07.9–.48 38.24N–.06 142.24E–.06 24 4.5b 53 2-150
IDC III 11 22 04 04.0–.55 38.25N 142.26E 0 4.3,4.2 **¶602652280**
ISCJB III 11 22 04 05.8–.38 38.25N–.06 142.37E–.06 24 4.3b,4.2
JMA III 11 22 04 08.4–.20 38.43N 142.28E 38–4 4.4,4.2
NEIC III 11 22 04 13.1–1.7 38.28N 142.25E 69–15 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=15.8km s-min=13.3km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=6.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.3km az=71.0.

(228) Near east coast of eastern Honshu

JMA III 11 22 06 50.7–.20 37.12N 141.73E 41–3 3.9 ¶603049503

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 22 09 11.2–.10 36.83N 141.16E 46–1 3.7 ¶602442255

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(226) Near west coast of eastern Honshu

JMA III 11 22 11 22.7 37.01N 138.63E 10–2 2.6 ¶602652254

JMA Event type fe.

(227) Eastern Honshu

ISC III 11 22 14 04.4–1.1 36.99N–.03 138.61E–.04 12–7 4.3b 63 0-146
IDC III 11 22 14 02.9–.49 37.07N 138.57E 0 4.3,4.2 **¶16425266**
JMA III 11 22 14 04.8 36.99N 138.64E 10–2 4.2,4.2
NEIC III 11 22 14 04.8–.87 37.00N 138.59E 13–6 4.2,4.2
ISCJB III 11 22 14 04.4–.39 36.99N–.03 138.62E–.04 23–3 4.2b,4.2
ISC Event type se.
JMA Event type fe.
NEIC Event type fe. Recorded [4 JMA] in Niigata.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 22 14 34.4–.63 36.45N–.08 141.40E–.07 26 4.2b 34 1-90
IDC III 11 22 14 30.1–.90 36.44N 141.49E 0 4.2,4.0 **¶16425267**
ISCJB III 11 22 14 32.6–.46 36.46N–.06 141.49E–.05 26 4.1b,4.0
JMA III 11 22 14 34.8–.10 36.49N 141.32E 45–2 4.1,4.0
NEIC III 11 22 14 37.8–1.1 36.43N 141.37E 56–9 4.1,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=19.7km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=160.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.9km az=117.0.

(227) Eastern Honshu

ISC III 11 22 18 05.2–1.0 36.96N–.03 138.65E–.04 13–8 3.7b 30 0-73
IDC III 11 22 18 03.8–1.2 37.03N 138.64E 0 3.7b,3.6 **¶600540447**
ISCJB III 11 22 18 05.6–.38 36.96N–.03 138.58E–.04 26–4 3.6b,3.6
JMA III 11 22 18 06.0 36.97N 138.61E 7–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=11.6km s-min=8.8km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.1km az=41.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 22 18 34.6–2.0 36.68N–.05 141.65E–.06 6–11 4.6b 89 1-151
IDC III 11 22 18 33.4–.52 36.66N 141.65E 0 4.5,4.4 **¶17194130**
ISCJB III 11 22 18 35.0–.97 36.70N–.03 141.72E–.05 20–6 4.6b,4.4
JMA III 11 22 18 37.4–.30 36.73N 141.55E 35–3 4.6,4.4
NEIC III 11 22 18 39.2–.93 36.63N 141.64E 40–8 4.6,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.5km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.1km az=20.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.0km az=89.0.

(229) Off east coast of Honshu

ISC III 11 22 19 36.6–.61 36.4N–.10 141.7E–.10 26 4.7b 56 1-151
IDC III 11 22 19 32.5–.59 36.40N 141.71E 0 4.6,4.5 **¶16425275**
ISCJB III 11 22 19 34.9–.44 36.36N–.08 141.72E–.08 26 4.5b,4.2s
NEIC III 11 22 19 39.5–2.4 36.42N 141.69E 49–21 4.5b,4.2s
JMA III 11 22 19 46.1–.30 37.26N 142.29E 14 4.8,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.0km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=9.4km az=171.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.2km az=151.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(227) Eastern Honshu

JMA III 11 22 23 31.4 36.93N 138.60E 3–1 2.8 ¶602652237

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 11 22 26 04.0–.20 37.16N 141.41E 49–2 3.6 ¶602652226

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(226) Near west coast of eastern Honshu

JMA III 11 22 35 10.9–.10 37.06N 138.62E 12–2 2.5 ¶603049508

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 22 36 12.1–.42 35.85N–.05 141.11E–.06 31 4.5b 80 0-152
NIED III 11 22 36 00 35.90N 141.10E 8 4.4W **¶17194135**
IDC III 11 22 36 07.3–.50 35.84N 141.14E 0 4.5,4.4
NEIC III 11 22 36 08.5–2.5 35.81N 141.14E 8–15 4.5,4.4
JMA III 11 22 36 09.9–.20 35.90N 141.14E 25–2 4.4,4.4

ISCJB III 11 22 36 10.3–.31 35.85N–.04 141.16E–.05 31 4.5b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ23.00000°,λ-9.00000°. NP2:ϕ_s333.00000°,δ86.00000°,λ-112.00000°. $M_0$4.77000×10^{15}
NEIC Event type fe. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 22 42 58.8–.35 37.55N–.04 143.94E–.04 34–1 5.2s,5.1b 686 4-156
IDC III 11 22 42 53.8–.37 37.59N 143.90E 0 4.8,4.8 **¶16308484**
MOS III 11 22 42 57.8–.91 37.60N 143.83E 37 5.4b,4.8s
ISCJB III 11 22 42 57.5–.12 37.60N–.03 143.86E–.02 33 5.1s,5.0b
BJI III 11 22 42 59.6 38.09N 143.43E 27 5.4b,5.0
NEIC III 11 22 42 59.2–1.3 37.61N 143.81E 34–9 5.1b,5.0
JMA III 11 22 43 16.6–.10 39.45N 142.78E 40–3 5.2,5.0
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=9.7km az=138.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=101.5.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.2km az=159.8.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 22 48 36.5–.20 39.61N 142.54E 38–3 4.0
¶602652192
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 22 49 14.8–.10 35.87N 140.97E 12–1 3.8
¶602652188
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 22 50 11.7–.67 36.8N–.10 143.89E–.09 35 4.1b 35 2-89
IDC III 11 22 50 06.4–.78 36.75N 144.10E 0 4.4L,4.2 **¶17194141**
ISCJB III 11 22 50 09.9–.49 36.86N–.08 143.82E–.06 33 4.1b,4.2
NEIC III 11 22 50 11.7–.38 36.81N 143.94E 35 4.1b,4.2
JMA III 11 22 50 30.1–.20 37.61N 141.83E 23–3 4.3,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=19.2km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.8km az=167.7.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.4km az=158.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 22 51 17.9–.40 37.92N–.03 144.90E–.03 26–2 5.7b,5.1s 1454 3-162
NIED III 11 22 51 00 37.80N 144.60E 35 5.5W,5.1s **¶602652182**
ISCJB III 11 22 51 14.8–.76 37.88N–.02 144.92E–.02 15–5 5.6b,5.1s
MOS III 11 22 51 17.3–.92 37.90N 144.87E 30 5.8b,5.0s
BJI III 11 22 51 18.9 38.11N 144.52E 25 5.6b,5.4s
JMA III 11 22 51 19.4–.30 37.94N 144.64E 35 5.7,5.4s
NEIC III 11 22 51 19.9–.56 37.83N 144.83E 39–5 5.7b,5.4s
IDC III 11 22 51 19.1–3.3 37.82N 144.93E 33–25 5.1,4.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s269.00000°,δ75.00000°,λ-4.00000°. NP2:ϕ_s0.00000°,δ87.00000°,λ-165.00000°. $M_0$1.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=159.9.
MOS Error ellipse: s-maj=5.7km s-min=4.1km az=104.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=136.0.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=104.0.

(228) Near east coast of eastern Honshu

JMA III 11 22 54 02.9–.10 37.44N 141.42E 26–2 3.6
¶602652181
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 22 54 26.4–.32 36.57N–.04 142.29E–.04 15 5.3b,5.3s 324 1-146
NIED III 11 22 54 00 36.50N 142.50E 8 5.1W,5.3s **¶600540496**
IDC III 11 22 54 23.9–.47 36.50N 142.42E 0 5.1,5.0
JMA III 11 22 54 25.0–.30 36.49N 142.54E 68 5.3,5.0
ISCJB III 11 22 54 25.1–.17 36.48N–.03 142.38E–.02 15 5.3s,5.2b
NEIC III 11 22 54 27.5–1.6 36.49N 142.31E 20–11 5.4b,5.2b
MOS III 11 22 54 28.4–.87 36.67N 142.31E 33 5.6b,5.2b
BJI III 11 22 54 29.3 36.58N 141.63E 20 5.5b,5.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ28.00000°,λ106.00000°. NP2:ϕ_s2.00000°,δ63.00000°,λ82.00000°. $M_0$4.41000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=11.8km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=161.5.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=121.0.
MOS Error ellipse: s-maj=8.8km s-min=6.0km az=106.6.

(228) Near east coast of eastern Honshu

ISC III 11 22 59 43.3–1.4 35.64N–.06 140.97E–.10 32–8 3.8b 21 0-75
IDC III 11 22 59 36.4–1.0 35.23N 141.05E 0 4.0,3.9b **¶602652162**
ISCJB III 11 22 59 41.3–1.2 35.66N–.05 141.15E–.09 32–6 3.9b,3.9b
NEIC III 11 22 59 41.7–.57 35.24N 141.00E 35 3.9b,3.9b
JMA III 11 22 59 42.2–.20 35.61N 141.07E 32–1 3.6,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=22.3km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=8.7km az=10.7.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=11.3km az=215.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 23 05 11.8–.45 39.61N–.04 142.13E–.05 52–3 4.8b,4.4s 430 2-151
NIED III 11 23 05 00 39.60N 142.10E 53 5.1W,4.4s **¶17194147**
JMA III 11 23 05 10.7–.10 39.62N 142.15E 47–1 4.9,4.4s
ISCJB III 11 23 05 12.0–.37 39.63N–.02 141.96E–.03 60–3 4.8b,4.3s
MOS III 11 23 05 11.3–.94 39.76N 141.93E 51 5.2b,4.3s
IDC III 11 23 05 13.7–1.5 39.57N 142.02E 69–13 4.7,4.5
NEIC III 11 23 05 14.2–.45 39.65N 141.87E 66–4 4.9b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ19.00000°,λ106.00000°. NP2:ϕ_s11.00000°,δ72.00000°,λ85.00000°. $M_0$4.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=31.5.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=93.1.
IDC Error ellipse: s-maj=10.3km s-min=8.5km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=153.0. Recorded [3 JMA] in Aomori.

(228) Near east coast of eastern Honshu

ISC III 11 23 09 35.7–.82 38.2N–.10 142.53E–.08 14 4.0b 31 2-80
IDC III 11 23 09 33.5–1.8 38.21N 142.50E 0 4.1,4.0 **¶602652150**
ISCJB III 11 23 09 34.1–.55 38.22N–.08 142.51E–.07 14 4.0b,4.0
NEIC III 11 23 09 38.6–.41 38.17N 142.48E 35 4.0b,4.0
JMA III 11 23 09 44.0–.10 39.24N 142.35E 36–2 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=45.1km s-min=20.6km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.6km az=161.6.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=4.8km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 23 10 49.1–.30 39.61N 142.69E 26–5 4.3
¶603049513
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

(227) Eastern Honshu

ISC III 11 23 11 52.2–.86 37.18N–.03 140.90E–.04 14–5 4.5b 89 0-147
ISCJB III 11 23 11 51.3–.70 37.18N–.03 141.05E–.04 19–4 4.4b **¶16425283**
JMA III 11 23 11 52.0 37.18N 140.97E 10–1 4.6
NEIC III 11 23 11 56.8–1.2 37.27N 140.91E 45–10 4.6
IDC III 11 23 11 56.6–2.3 37.24N 140.83E 44–21 4.4,4.3
NIED III 11 23 12 00 36.70N 140.60E 5 4.5W,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.0km az=38.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=8.0km az=137.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=135.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ40.00000°,λ-90.00000°. NP2:ϕ_s330.00000°,δ50.00000°,λ-90.00000°. $M_0$7.37000×10^{15}

(228) Near east coast of eastern Honshu

ISC III 11 23 15 51.9–.97 36.74N–.02 140.50E–.03 8–6 4.1b 49 0-91
IDC III 11 23 15 50.6–.74 36.74N 140.50E 0 4.2,4.0 **¶602652143**
ISCJB III 11 23 15 51.9–.48 36.72N–.02 140.67E–.04 18–3 4.0b,4.0
JMA III 11 23 15 52.3 36.74N 140.62E 6–1 4.0,4.0
NEIC III 11 23 15 56.9–.81 36.72N 140.44E 44–6 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=18.4km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=22.7.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.3km az=141.0.

(229) Off east coast of Honshu

ISC III 11 23 21 20.0–.35 39.08N–.04 143.53E–.05 20 4.8b 282 2-144
MOS III 11 23 21 19.9–.99 39.15N 143.41E 27 5.0b **¶602652131**
ISCJB III 11 23 21 19.2–.20 39.12N–.03 143.34E–.03 20 5.0s,4.7b
BJI III 11 23 21 19.6 39.21N 143.18E 17 5.2b,5.0s
JMA III 11 23 21 20.6–.10 39.17N 143.38E 31–4 5.1,5.0s
NEIC III 11 23 21 21.3–1.3 39.08N 143.33E 24–9 4.9b,5.0s
IDC III 11 23 21 22.6–2.8 39.09N 143.39E 35–22 4.6,4.5
ISC Event type ke.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=145.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=139.0.
IDC Error ellipse: s-maj=12.2km s-min=9.6km az=125.0.

(229) Off east coast of Honshu

ISC III 11 23 24 09.4–.97 37.17N–.05 142.60E–.06 24–6 4.4b 90 1-146
NIED III 11 23 24 00 37.40N 142.30E 17 4.5W **¶602652128**
IDC III 11 23 24 05.5–.53 37.17N 142.69E 0 4.5s,4.5
ISCJB III 11 23 24 08.6–1.5 37.25N–.04 142.59E–.04 28–10 4.5s,4.3b
NEIC III 11 23 24 09.6–1.7 37.11N 142.73E 29–12 4.5s,4.3b
JMA III 11 23 24 09.3–.30 37.45N 142.30E 9–3 4.8,4.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ62.00000°,λ-152.00000°. NP2:ϕ_s183.00000°,δ65.00000°,λ-31.00000°. $M_0$5.61000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=11.6km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=147.4.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 23 26 26.0–1.4 36.27N–.05 141.64E–.08 32–7 4.4b 52 1-118
IDC III 11 23 26 20.1–2.5 37.42N 143.69E 0 4.4,4.3 **¶17194157**
NEIC III 11 23 26 27.8–1.9 37.64N 143.74E 43–15 4.4,4.3
JMA III 11 23 26 34.1–.10 36.26N 141.10E 41–1 4.4,4.3
ISC Event type se.
IDC Error ellipse: s-maj=67.7km s-min=26.4km az=159.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=7.6km az=148.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 11 23 26 50.4–.56 39.08N–.03 142.81E–.03 33–3 5.2b,4.8s 834 2-165
NIED III 11 23 26 00 38.90N 142.90E 8 5.2W,4.8s **¶17194159**
IDC III 11 23 26 45.1–.35 39.02N 142.63E 0 4.9,4.9
BJI III 11 23 26 46.4 39.17N 143.04E 28 5.5b,5.1s
JMA III 11 23 26 46.7–.30 39.01N 142.69E 13–3 5.3,5.1s
ISCJB III 11 23 26 47.5–.85 39.13N–.02 142.70E–.02 19–5 5.1b,4.8s
MOS III 11 23 26 48.5–1.1 39.07N 142.59E 31 5.4b,4.6s
NEIC III 11 23 26 49.7–.65 39.05N 142.62E 24–4 5.3b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ42.00000°,λ-102.00000°. NP2:ϕ_s129.00000°,δ49.00000°,λ-80.00000°. $M_0$6.89000×10^{16}
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=145.8.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=87.8.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=137.0.

(228) Near east coast of eastern Honshu

JMA III 11 23 28 17.1–.10 36.80N 140.96E 50–1 3.5
NIED III 11 23 28 00 36.80N 141.00E 44 5.0W **¶603049515**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ41.00000°,λ4.00000°. NP2:ϕ_s178.00000°,δ88.00000°,λ131.00000°. $M_0$3.72000×10^{16}

(229) Off east coast of Honshu

ISC III 11 23 31 51.0–.57 39.02N–.08 143.04E–.06 16 4.6b 88 2-117
IDC III 11 23 31 47.9–.60 38.96N 143.12E 0 4.5,4.4 **¶602652113**
JMA III 11 23 31 50.8–.20 39.28N 143.07E 39 4.8,4.4
ISCJB III 11 23 31 50.1–.40 39.10N–.06 143.00E–.05 16 4.5b,4.4
NEIC III 11 23 31 53.2–2.5 39.03N 143.01E 28–17 4.7b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=12.3km az=167.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=4.3km az=160.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.2km az=159.0.

(227) Eastern Honshu

JMA III 11 23 32 23.6 36.93N 138.56E 5–1 3.7
¶602652111
JMA Event type fe.

(227) Eastern Honshu

JMA III 11 23 33 37.9 36.95N 138.56E 9–1 2.5
¶603049516
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 23 36 18.2–.30 35.90N 141.21E 21–2 3.5
¶16425295
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 11 23 43 44.9–.20 39.14N 142.41E 38–3 4.3
¶603049519
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 11 23 50 11.1–1.7 38.27N–.06 141.8E–.10 55–14 4.1b 61 1-146
IDC III 11 23 50 03.6–.73 38.31N 141.78E 0 4.2,4.1 **¶16425298**
JMA III 11 23 50 10.8–.10 38.29N 141.76E 50–2 4.1,4.1
ISCJB III 11 23 50 10.1–.93 38.27N–.05 141.80E–.09 62–6 4.1b,4.1
NEIC III 11 23 50 11.5–1.3 38.22N 141.65E 60–10 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=16.7km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=7.7km az=1.9.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.0km az=102.0.

(228) Near east coast of eastern Honshu

JMA III 11 23 50 41.9–.10 38.00N 141.68E 37–3 4.1
¶603049521
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 11 23 52 09.5–.53 39.58N–.08 143.20E–.08 18 4.2b 50 2-145
IDC III 11 23 52 06.6–.52 39.59N 143.16E 0 4.4,4.3 **¶602652075**
ISCJB III 11 23 52 07.8–.41 39.62N–.06 143.21E–.07 18 4.2b,4.3
JMA III 11 23 52 08.4–.20 39.51N 143.20E 14–3 4.6,4.3
NEIC III 11 23 52 12.8–.74 39.61N 143.15E 44–6 4.6,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=14.2km s-min=12.2km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=144.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.9km az=130.0.

(228) Near east coast of eastern Honshu

ISC III 11 23 53 29.1–1.1 38.85N–.05 142.62E–.05 30–7 5.0b,5.0s 549 2-155

BJI III 11 23 53 25.8 38.79N 142.61E 24 5.3b,5.2s ¶17194161
ISCJB III 11 23 53 27.8–1.3 38.83N–.03 142.60E–.03 31–8 5.0s,5.0b
JMA III 11 23 53 27.5–.30 38.95N 142.59E 37 5.1,5.0b
MOS III 11 23 53 28.2–.90 38.91N 142.55E 33 5.3b,5.0b
NEIC III 11 23 53 29.3–.38 38.86N 142.53E 29–2 5.1b,5.0b
IDC III 11 23 53 31.1–2.1 38.83N 142.66E 48–20 4.8,4.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.3km az=158.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.9km az=80.8.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=145.0.
IDC Error ellipse: s-maj=12.3km s-min=10.8km az=112.0.
(228) Near east coast of eastern Honshu
ISC III 11 23 54 43.6–.44 37.42N–.05 141.87E–.05 24 5.0b 85 1-157
NIED III 11 23 54 00 37.40N 141.80E 47 4.8W ¶16425306
IDC III 11 23 54 40.0–.48 37.39N 141.93E 0 5.0,5.0b
ISCJB III 11 23 54 41.7–.28 37.40N–.04 141.99E–.04 24 4.8b,5.0b
NEIC III 11 23 54 45.5–.90 37.44N 141.82E 36–8 4.7b,5.0b
JMA III 11 23 54 45.6–.20 37.43N 141.88E 40 5.0,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ24.00000°,λ-23.00000°. NP2:ϕ_s297.00000°,δ81.00000°,λ-112.00000°. $M_0$1.90000×10^{16}
IDC Error ellipse: s-maj=13.6km s-min=11.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.6km az=147.9.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=5.9km az=132.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 11 23 56 26.1–.50 37.74N–.09 143.05E–.07 24 4.7b 59 2-145
IDC III 11 23 56 22.2–.61 37.72N 143.03E 0 4.8,4.7 ¶602652070
ISCJB III 11 23 56 24.3–.41 37.71N–.07 143.02E–.07 24 4.6b,4.3s
NEIC III 11 23 56 25.7–2.5 37.73N 143.01E 22–17 4.6b,4.3s
JMA III 11 23 56 40.8–.30 37.61N 142.23E 28 4.6,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=17.2km s-min=15.8km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.7km az=151.3.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=127.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
(227) Eastern Honshu
JMA III 11 23 57 22.7 36.95N 138.56E 6–2 3.4 ¶16425307
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 11 23 59 20.6–.39 36.52N–.03 141.52E–.03 22–2 5.3b,5.1s 497 1-155
NIED III 11 23 59 00 36.50N 141.50E 5 5.4W,5.1s ¶16310141
IDC III 11 23 59 16.7–.43 36.51N 141.64E 0 5.4L,5.0
BJI III 11 23 59 18.7 36.33N 141.55E 26 5.6s,5.5b
ISCJB III 11 23 59 19.6–.62 36.47N–.02 141.60E–.02 27–4 5.2b,5.1s
MOS III 11 23 59 20.4–.99 36.50N 141.59E 33 5.5b,5.2s
JMA III 11 23 59 21.3–.30 36.50N 141.48E 28–5 5.5,5.2s
NEIC III 11 23 59 21.1–.19 36.53N 141.51E 22–1 5.4b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ24.00000°,λ64.00000°. NP2:ϕ_s2.00000°,δ69.00000°,λ101.00000°. $M_0$1.35000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=10.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=158.5.
MOS Error ellipse: s-maj=8.9km s-min=6.0km az=92.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=140.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
JMA III 12 00 00 56.2–.20 36.56N 141.73E 65–4 4.5 ¶602656757
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 00 04 50.8–.61 37.01N–.07 142.27E–.05 9 4.4b 39 1-90
ISCJB III 12 00 04 48.9–.52 37.06N–.06 142.34E–.05 9 4.2b ¶17194167
JMA III 12 00 04 51.6–.10 37.00N 142.22E 15–2 4.9
IDC III 12 00 04 53.6–.79 37.10N 142.31E 28–6 4.3,4.3
NEIC III 12 00 04 55.6–.89 37.09N 142.25E 46–7 4.5b,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=165.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=15.0km az=116.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.5km az=125.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 08 45.4–1.7 36.88N–.06 141.2E–.10 35 14 0-42
IDC III 12 00 08 39.4–4.4 37.03N 141.49E 0 4.3,4.3 ¶17194173
ISCJB III 12 00 08 44.2–1.3 36.86N–.06 141.3E–.10 35 3.8b,4.3
JMA III 12 00 08 45.7–.10 36.87N 141.13E 47–1 4.0,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=79.6km s-min=34.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=8.2km az=174.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 10 19.7–.89 39.0N–.10 142.42E–.08 27 4.1b 20 2-76
IDC III 12 00 10 15.6–.86 39.03N 142.38E 0 4.2,4.0 ¶17194176
ISCJB III 12 00 10 17.7–.63 39.00N–.10 142.57E–.07 27 4.0b,4.0
JMA III 12 00 10 20.5–.10 39.20N 142.34E 29–2 4.6,4.0
NEIC III 12 00 10 22.3–1.4 39.07N 142.43E 48–12 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=20.2km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=6.4km az=156.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.5km az=135.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 11 19.6–.10 36.25N 140.95E 40–1 3.7 ¶603049525
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 12 18.1 37.20N 141.26E 15–1 3.5 ¶602656731
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 12 00 12 44.3–.10 36.69N 141.04E 44–2 3.7 ¶17194177
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 00 16 03.1–.47 37.87N–.06 142.55E–.05 14 4.0b 58 1-89
ISCJB III 12 00 16 00.6–.43 37.87N–.05 142.66E–.06 14 4.1b ¶16442286
NIED III 12 00 16 00 37.60N 142.10E 38 4.3W
IDC III 12 00 16 04.5–.54 37.87N 142.47E 26–3 3.9,3.9
NEIC III 12 00 16 05.7–3.3 37.88N 142.53E 35–23 4.2b,3.9
JMA III 12 00 16 16.0–.30 37.67N 142.05E 22 4.4,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.5km az=137.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ86.00000°,λ3.00000°. NP2:ϕ_s72.00000°,δ87.00000°,λ176.00000°. $M_0$3.67000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=11.9km az=101.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.2km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 21 32.0–.64 36.53N–.05 142.15E–.06 30–4 4.4b 145 1-146
NIED III 12 00 21 00 36.70N 141.90E 35 4.5W ¶16310108
ISCJB III 12 00 21 30.7–1.5 36.65N–.04 142.18E–.04 32–10 5.0s,4.4b
NEIC III 12 00 21 31.6–1.0 36.65N 142.28E 25–7 4.3b,4.4b
JMA III 12 00 21 32.9–.20 36.68N 141.94E 53–5 4.3,4.4b
IDC III 12 00 21 33.1–.72 36.64N 142.09E 26–4 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ49.00000°,λ-158.00000°. NP2:ϕ_s143.00000°,δ73.00000°,λ-43.00000°. $M_0$5.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.6km az=30.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.9km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=13.0km az=77.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 25 06.2–.36 37.71N–.04 141.99E–.04 25–2 5.0b,4.6s 759 1-155
NIED III 12 00 25 00 37.70N 142.00E 35 4.9W,4.6s ¶17194182
IDC III 12 00 25 02.8–.42 37.76N 141.95E 0 4.9,4.8
BJI III 12 00 25 02.9 37.67N 142.16E 29 5.5b,5.1b
JMA III 12 00 25 05.2–.20 37.77N 141.98E 23–4 4.8,5.1b
MOS III 12 00 25 05.7–1.1 37.83N 142.03E 33 5.1b,5.1b
ISCJB III 12 00 25 06.4–.91 37.79N–.03 141.87E–.03 32–6 4.9b,4.8s
NEIC III 12 00 25 07.8–.35 37.76N 141.89E 31–2 5.0b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ40.00000°,λ-110.00000°. NP2:ϕ_s180.00000°,δ53.00000°,λ-74.00000°. $M_0$2.17000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.4km az=92.4.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=155.2.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=143.0. Recorded [3 JMA] in Miyagi.
(227) Eastern Honshu
JMA III 12 00 28 56.1 36.99N 138.60E 6–2 2.8 ¶602656930
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 00 36 04.0–.76 39.47N–.10 142.81E–.08 18 4.2b 34 2-144
IDC III 12 00 36 01.1–.90 39.43N 142.85E 0 4.3,4.1 ¶602656916
ISCJB III 12 00 36 02.4–.58 39.48N–.07 142.84E–.09 18 4.1b,4.1
JMA III 12 00 36 03.0–.30 39.55N 142.84E 9 4.4,4.1
NEIC III 12 00 36 06.6–.41 39.49N 142.84E 35 4.2b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=16.5km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=9.8km az=179.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.1km az=155.0.
(226) Near west coast of eastern Honshu
ISC III 12 00 39 11.3–4.4 40.40N–.04 139.24E–.06 16–28 4.3b 54 1-146
ISCJB III 12 00 39 08.6–1.7 40.44N–.03 139.18E–.05 8–11 4.2b ¶16442292
JMA III 12 00 39 09.2–.30 40.40N 139.13E 16–4 4.7
IDC III 12 00 39 09.3–1.1 40.47N 139.16E 0 4.3,4.1
NEIC III 12 00 39 11.0–2.3 40.44N 139.24E 12–15 4.4b,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=18.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=16.7km az=174.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=130.0. Recorded [2 JMA] in Aomori.
(228) Near east coast of eastern Honshu
ISC III 12 00 39 35.6–.53 37.31N–.05 142.60E–.05 19–1 5.0b,4.7s 316 1-146
IDC III 12 00 39 32.1–.45 37.19N 142.66E 0 4.7,4.6 ¶602656910
ISCJB III 12 00 39 32.7–1.2 37.26N–.04 142.45E–.03 8–7 4.9b,4.7s
BJI III 12 00 39 35.0 37.31N 142.38E 23 5.4b,5.1s
MOS III 12 00 39 37.7–1.1 37.57N 142.48E 33 5.3b,5.1s
NEIC III 12 00 39 38.0–.24 37.21N 142.50E 35 5.0b,5.1s
JMA III 12 00 39 47.6–.10 36.86N 141.10E 50–1 4.7,5.1s
ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=161.9.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=106.5.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.0km az=152.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 40 34.2–.44 38.32N–.06 142.29E–.06 24 4.8b 90 2-145
IDC III 12 00 40 30.8–.50 38.36N 142.28E 0 5.0,4.8 ¶16308499
NEIC III 12 00 40 32.8–2.2 38.33N 142.27E 13–13 4.8b,4.8
ISCJB III 12 00 40 32.4–.29 38.25N–.05 142.37E–.05 24 4.8b,4.3s
JMA III 12 00 40 35.8–.30 38.46N 142.32E 37 5.0,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=12.2km az=124.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.2km az=165.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 41 53.6–.20 36.99N 141.19E 48–1 3.6 ¶602656908
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 43 09.2–.65 39.59N–.07 142.94E–.08 18 4.5b 50 2-88
IDC III 12 00 43 05.8–.68 39.47N 142.86E 0 4.6,4.5b ¶602656903
JMA III 12 00 43 07.5–.30 39.55N 142.84E 14–4 4.7,4.5b
ISCJB III 12 00 43 07.3–.46 39.56N–.05 142.93E–.07 18 4.4b,4.5b
NEIC III 12 00 43 13.5–.69 39.53N 142.86E 55–5 4.6b,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=14.9km az=180.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=44.7.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=138.0.
(228) Near east coast of eastern Honshu
ISC III 12 00 45 08.7–.39 36.13N–.03 141.86E–.04 20–1 5.5b,5.2s 1028 1-165
NIED III 12 00 45 00 36.20N 142.00E 17 5.3W,5.2s ¶602656899
IDC III 12 00 45 05.9–.33 36.14N 141.88E 0 5.1,5.0
ISCJB III 12 00 45 06.2–.94 36.16N–.02 141.77E–.02 10–5 5.4b,5.3s
JMA III 12 00 45 07.4–.30 36.16N 141.93E 20 5.6,5.3s
MOS III 12 00 45 08.8–.86 36.24N 141.87E 33 5.6b,5.1s
BJI III 12 00 45 09.1 36.14N 141.53E 24 5.4b,5.4s
NEIC III 12 00 45 09.2–.29 36.11N 141.77E 20–1 5.5b,5.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ56.00000°,λ-7.00000°. NP2:ϕ_s283.00000°,δ84.00000°,λ-146.00000°. $M_0$1.03000×10^{17}
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=6.1km az=113.3.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.2km az=141.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 45 09.0–.10 36.95N 141.04E 52–1 3.8 ¶602447858
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 47 07.5–.20 37.27N 141.64E 45–5 3.5 ¶602656897
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 47 45.6–.10 38.52N 142.03E 24–2 4.2 ¶602656891
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
JMA III 12 00 52 56.3–.10 38.21N 140.65E 13–2 3.5 ¶603049529
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 00 58 57.5–.10 39.14N 142.35E 31–1 4.2 ¶602656863
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 01 00 33.7–1.3 36.13N–.07 141.2E–.10 26 4.2b 13 0-75
IDC III 12 01 00 26.6–2.1 36.41N 142.44E 0 4.2,4.1 ¶600540662
ISCJB III 12 01 00 32.2–1.0 36.05N–.06 141.33E–.09 26 4.1b,4.1
JMA III 12 01 00 35.7–.10 36.01N 141.05E 33–2 4.1,4.1

ISC Event type ke.
IDC Error ellipse: s-maj=86.5km s-min=21.9km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.9km az=160.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 02 36.4–.74**	**35.61N–.06**	**141.05E–.08**	**38–2**	**4.2b**	**42**	**0-91**
NIED	III	12 01 02 00	35.80N	141.10E	32	4.3W		¶16442313
IDC	III	12 01 02 31.2–.67	35.61N	140.99E	0	4.2,4.1b		
NEIC	III	12 01 02 34.1–3.0	35.61N	141.07E	22–22	4.7b,4.1b		
ISCJB	III	12 01 02 34.4–.64	35.55N–.04	141.02E–.07	39–5	4.2b,3.9s		
JMA	III	12 01 02 35.8–.20	35.73N	141.06E	34–1	3.6,3.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ53.00000°,λ-12.00000°. NP2:ϕ_s261.00000°,δ81.00000°,λ-142.00000°. $M_0$3.22000×10^{15}
IDC Error ellipse: s-maj=20.9km s-min=15.0km az=88.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.8km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.6km az=178.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 04 02.1–.46**	**37.87N–.04**	**141.63E–.04**	**63–4**	**4.9b**	**750**	**1-156**
BJI	III	12 01 03 53.1	37.68N	141.96E	26	5.5b,4.9b		¶16308501
MOS	III	12 01 03 57.7–.93	37.91N	141.45E	33	5.2b,4.9b		
NEIC	III	12 01 03 58.7–1.3	37.82N	141.39E	30–9	5.0b,4.9b		
NIED	III	12 01 04 00	37.90N	141.50E	56	4.7W,4.9b		
ISCJB	III	12 01 04 02.3–.33	37.91N–.03	141.43E–.03	69–3	4.8b,4.9b		
IDC	III	12 01 04 03.0–.53	37.92N	141.52E	69–4	4.8,4.6		
JMA	III	12 01 04 02.4–.10	37.90N	141.52E	58–2	4.8,4.6		

ISC Event type se.
MOS Error ellipse: s-maj=7.6km s-min=4.7km az=84.4.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=148.0. Recorded [3 JMA] in Fukushima and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ127.00000°. NP2:ϕ_s183.00000°,δ58.00000°,λ62.00000°. $M_0$1.32000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=160.6.
IDC Error ellipse: s-maj=10.9km s-min=9.4km az=131.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 07 50.6–1.1**	**36.79N–.04**	**141.19E–.07**	**42–9**	**4.2b**	**58**	**0-145**
IDC	III	12 01 07 44.8–.93	36.90N	141.25E	0	4.4L,4.1		¶16442314
NEIC	III	12 01 07 47.7–2.5	36.88N	141.40E	24–18	4.4b,4.1		
ISCJB	III	12 01 07 49.6–.61	36.76N–.03	141.20E–.05	51–4	4.2b,4.1		
JMA	III	12 01 07 51.9–.10	36.84N	141.05E	49–1	3.8,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=16.9km az=75.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.0km az=0.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**III**	**12 01 12 09.5–.58**	**37.00N–.02**	**140.68E–.03**	**10–3**	**4.8b**	**262**	**0-153**
NIED	III	12 01 12 00	37.00N	140.80E	8	4.6W		¶16308502
IDC	III	12 01 12 07.8–.37	37.03N	140.66E	0	4.7,4.7		
ISCJB	III	12 01 12 09.9–.39	37.01N–.02	140.73E–.03	19–2	4.7b,4.7		
JMA	III	12 01 12 09.8	37.01N	140.74E	11–1	4.8,4.7		
NEIC	III	12 01 12 14.0–.52	37.07N	140.56E	38–4	4.8b,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ31.00000°,λ-41.00000°. NP2:ϕ_s148.00000°,δ70.00000°,λ-114.00000°. $M_0$8.11000×10^{15}
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=33.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ79.00000°,λ-53.00000°. NP2:ϕ_s154.00000°,δ39.00000°,λ-163.00000°. Principal axes: T Plg25.0000°,Azm112.0000°; N Plg37.0000°,Azm222.0000°; P Plg43.0000° ,Azm356.0000°
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=131.0. Recorded [3 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 13 54.3–.70**	**37.30N–.04**	**141.38E–.05**	**20–4**	**4.6b**	**132**	**0-152**
NIED	III	12 01 13 00	37.30N	141.20E	29	4.5W		¶602656705
IDC	III	12 01 13 51.4–.56	37.38N	141.31E	0	4.6,4.6L		
ISCJB	III	12 01 13 53.8–.73	37.29N–.03	141.39E–.04	28–5	4.6b,4.6L		
NEIC	III	12 01 13 55.3–2.3	37.40N	141.28E	25–16	4.7b,4.6L		
JMA	III	12 01 13 56.1–.10	37.32N	141.22E	30–1	4.9,4.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ28.00000°,λ-67.00000°. NP2:ϕ_s231.00000°,δ64.00000°,λ-102.00000°. $M_0$5.74000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=13.7km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=148.9.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=132.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**12 01 17 01.2–.48**	**38.07N–.04**	**142.80E–.04**	**27–2**	**5.3b,4.8s**	**646**	**2-159**
BJI	III	12 01 16 58.5	38.09N	142.75E	24	5.3b,5.0b		¶602656700
JMA	III	12 01 16 58.9–.40	37.98N	142.90E	37	5.1,5.0b		
MOS	III	12 01 17 00.7–.90	38.21N	142.81E	33	5.5b,5.0b		
NEIC	III	12 01 17 00.7–1.0	38.05N	142.68E	21–7	5.4b,5.0b		
ISCJB	III	12 01 17 00.4–.14	38.10N–.03	142.66E–.02	29	5.2b,4.8s		
IDC	III	12 01 17 01.6–.63	38.03N	142.75E	28–3	5.0,5.0		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.7km az=91.7.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=142.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=161.9.
IDC Error ellipse: s-maj=11.7km s-min=9.2km az=146.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 01 17 27.2–.10**	**36.56N**	**140.94E**	**49–1**	**4.5**	
							¶16308503

JMA Event type fe.

(173) Tonga Islands

ISC	**III**	**12 01 19 08.6–.63**	**16.78S–.05**	**172.97W–.04**	**26–4**	**6.1s,5.7b**	**1265**	**3-174**
IDC	III	12 01 19 04.7–.36	16.81S	173.17W	0	5.9s,5.9		¶16308505
BJI	III	12 01 19 06.5	16.31S	172.96W	10	6.2s,6.0b		
NEIC	III	12 01 19 07.2–.13	16.72S	173.21W	14	6.0s,5.8W		
GCMT	III	12 01 19 07.2–.30	16.79S	172.77W	32–0	5.9W,5.8W		
ISCJB	III	12 01 19 08.6–.10	16.80S–.03	173.08W–.02	33	6.3s,5.6b		
MOS	III	12 01 19 10.0–1.4	16.57S	172.91W	35	6.0s,5.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=14.4km s-min=11.0km az=145.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=137.0. Felt at Neiafu. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}-7.05 $M_{\theta\theta}$3.65 $M_{\phi\phi}$3.40 $M_{r\theta}$0.54 $M_{\theta\phi}$2.92 $M_{\phi r}$2.42 Best double couple: NP1:ϕ_s55.00000°,δ37.00000°,λ-75.00000°. NP2: ϕ_s216.00000°,δ54.00000°,λ-101.00000°. Principal axes: T 6.7600,Plg9.0000°,Azm314.0000° ; N 0.8200,Plg9.0000°,Azm223.0000°; P -7.5800,Plg77.0000°,Azm88.0000° $M_0$7.20000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c92; s63,c93; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.01±.04 $M_{\theta\theta}$0.19±.03; $M_{\phi\phi}$0.82±.03; $M_{r\theta}$-0.11±.06; $M_{\theta\phi}$0.23±.02; $M_{\phi r}$0.07±.04; Best double couple: NP1:ϕ_s192.00000°,δ46.00000° ,λ-99.00000°. NP2:ϕ_s25.00000°,δ44.00000°,λ-81.00000°. Principal axes: T 0.8980,Plg1.0000°,Azm288.0000°; N 0.1240,Plg6.0000°,Azm198.0000° ; P -1.0240,Plg84.0000°,Azm26.0000° $M_0$0.96100×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.7km az=154.4.
MOS Error ellipse: s-maj=10.2km s-min=6.5km az=64.5.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 19 43.9–1.1**	**38.26N–.08**	**142.2E–.10**	**35**	**4.2b**	**13**	**1-82**
IDC	III	12 01 19 38.8–2.6	38.40N	142.29E	0	4.3,4.3		¶17194200
ISCJB	III	12 01 19 42.4–.91	38.29N–.07	142.19E–.10	35	4.1b,4.3		
JMA	III	12 01 19 43.2–.30	38.35N	142.05E	35	4.5,4.3		

ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=36.8km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=9.3km az=35.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 01 22 58.1–.20**	**36.72N**	**141.00E**	**46–2**	**3.8**	
							¶603049532

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**12 01 24 08.4–.56**	**37.69N–.07**	**142.20E–.07**	**21**	**4.5b**	**62**	**1-89**
IDC	III	12 01 24 04.5–.66	37.72N	142.25E	0	4.5,4.3		¶16476741
ISCJB	III	12 01 24 06.1–.39	37.71N–.05	142.29E–.06	21	4.5b,4.3		
NEIC	III	12 01 24 08.7–2.3	37.74N	142.27E	27–16	4.7b,4.3		
JMA	III	12 01 24 09.3–.30	37.71N	142.04E	17	5.0,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=14.7km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=42.5.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.2km az=94.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 25 02.8–.33**	**36.38N–.04**	**141.75E–.04**	**26**	**5.1s,5.0b**	**289**	**1-152**
BJI	III	12 01 24 56.4	36.45N	142.38E	28	5.2b,5.1b		¶17194203
IDC	III	12 01 24 58.7–.45	36.30N	141.76E	0	4.9,4.8		
NIED	III	12 01 25 00	36.30N	141.80E	8	4.9W,4.8		
JMA	III	12 01 25 01.7–.10	36.33N	141.88E	60	5.0,4.8		
ISCJB	III	12 01 25 01.6–.17	36.31N–.03	141.68E–.03	26	5.0s,5.0b		
MOS	III	12 01 25 01.6–1.3	36.49N	141.88E	33	5.3b,5.0b		
NEIC	III	12 01 25 01.3–2.1	36.34N	141.67E	13–13	5.0b,5.0b		

ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=10.9km az=97.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ23.00000°,λ15.00000°. NP2:ϕ_s65.00000°,δ84.00000°,λ112.00000°. $M_0$2.17000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=161.6.
MOS Error ellipse: s-maj=12.9km s-min=8.6km az=85.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.5km az=127.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 30 32.3–.48**	**36.72N–.06**	**141.97E–.05**	**19**	**4.3b**	**60**	**1-146**
IDC	III	12 01 30 29.8–.57	36.73N	142.01E	0	4.4,4.3		¶16442321
JMA	III	12 01 30 30.3–.50	37.02N	141.99E	3–3	4.9,4.3		
ISCJB	III	12 01 30 30.3–.33	36.69N–.04	142.08E–.04	19	4.3b,4.3		
NEIC	III	12 01 30 33.4–2.9	36.70N	142.05E	26–20	4.5b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=13.4km az=94.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=166.8.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.2km az=85.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 01 32 20.6–.30**	**36.62N**	**141.26E**	**46–3**	**3.9**	
							¶602656691

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(226) Near west coast of eastern Honshu

ISC	**III**	**12 01 32 55.9–1.1**	**37.00N–.03**	**138.61E–.04**	**11–10**		**16**	**0-57**
IDC	III	12 01 32 53.6–2.5	37.07N	138.64E	0	4.3,4.2b		¶600540678
ISCJB	III	12 01 32 55.3–.65	37.01N–.04	138.60E–.06	27–7	4.3b,4.2b		
JMA	III	12 01 32 55.6	37.03N	138.60E	8–3	3.8,4.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=11.5km az=31.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=27.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 33 39.9–.54**	**38.14N–.08**	**142.84E–.07**	**18**	**4.4b**	**63**	**2-145**
IDC	III	12 01 33 37.0–.61	38.14N	142.97E	0	4.3,4.2		¶16476746
ISCJB	III	12 01 33 38.0–.37	38.07N–.05	142.83E–.06	18	4.3b,4.2		
NEIC	III	12 01 33 39.1–3.3	38.12N	142.87E	12–20	4.6b,4.2		
JMA	III	12 01 33 43.3–.50	37.94N	142.33E	38	4.8,4.2		

ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=13.5km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=150.6.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=6.7km az=125.0. Recorded [3 JMA] in Nagano and Niigata.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 34 08.9–.40**	**38.79N–.03**	**142.96E–.03**	**19–1**	**5.9s,5.6b**	**1527**	**2-162**
NIED	III	12 01 34 00	38.60N	143.10E	5	5.6W,5.6b		¶17194206
ISCJB	III	12 01 34 05.8–.71	38.75N–.02	142.90E–.02	8–4	5.9s,5.5b		
IDC	III	12 01 34 05.6–.30	38.72N	142.93E	0	5.6,5.6s		
BJI	III	12 01 34 06.9	38.71N	142.80E	18	5.9s,5.8		
JMA	III	12 01 34 07.5–.30	38.83N	142.89E	0	6.2,5.8		
MOS	III	12 01 34 08.5–1.7	38.85N	143.00E	41	5.8b,5.8s		
GCMT	III	12 01 34 09.6–.50	38.81N	142.85E	20–1	5.8W,5.8s		
NEIC	III	12 01 34 09.6–.92	38.75N	142.83E	22–6	5.9s,5.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ38.00000°,λ-93.00000°. NP2:ϕ_s138.00000°,δ52.00000°,λ-88.00000°. $M_0$2.56000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=154.6.
IDC Error ellipse: s-maj=9.9km s-min=7.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=10.9km s-min=7.3km az=80.6.
GCMT Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c19; s68,c95; Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.09±.51 $M_{\theta\theta}$2.84±.29; $M_{\phi\phi}$3.25±.32; $M_{r\theta}$0.43±.74; $M_{\theta\phi}$-1.45±.14; $M_{\phi r}$1.23±.72; Best double couple: NP1:ϕ_s148.00000°,δ49.00000° ,λ-79.00000°. NP2:ϕ_s312.00000°,δ42.00000°,λ-102.00000°. Principal axes: T 4.5510,Plg4.0000°,Azm230.0000°; N 1.7400,Plg8.0000°,Azm321.0000° ; P -6.2910,Plg81.0000°,Azm116.0000° $M_0$5.42100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=133.0. Recorded [3 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**III**	**12 01 36 24.0–.51**	**36.57N–.07**	**142.26E–.07**	**15**	**5.0b**	**58**	**1-151**
ISCJB	III	12 01 36 22.1–.33	36.53N–.05	142.31E–.05	15	4.9b		¶16442323
IDC	III	12 01 36 22.4–.86	36.69N	142.27E	0	4.8,4.8		
NEIC	III	12 01 36 24.6–2.4	36.53N	142.30E	20–17	5.2b,4.8		
JMA	III	12 01 36 24.2–.30	36.72N	142.08E	10	5.5,4.8		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.8km az=155.9.
IDC Error ellipse: s-maj=22.9km s-min=14.3km az=156.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.7km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 01 38 31.6–.10**	**36.28N**	**141.01E**	**39–3**	**3.6**		
								¶602656688

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**12 01 42 35.2**	**36.98N**	**138.60E**	**6–2**	**3.7**		
								¶602656686

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 01 43 19.3–.40**	**36.28N–.03**	**141.74E–.04**	**28–2**	**5.1b**	**742**	**1-154**
NIED	III	12 01 43 00	36.40N	141.70E	23	4.9W		¶602656684
BJI	III	12 01 43 17.4	36.30N	141.80E	28	5.5s,5.4b		
ISCJB	III	12 01 43 19.3–.10	36.28N–.02	141.67E–.02	34	5.0b,5.4b		
NEIC	III	12 01 43 19.9–1.3	36.33N	141.56E	28–9	5.1b,5.4b		
MOS	III	12 01 43 19.2–.92	36.34N	141.57E	36	5.3b,5.4b		
JMA	III	12 01 43 19.3–.20	36.37N	141.68E	60–4	4.9,5.4b		
IDC	III	12 01 43 21.0–.64	36.37N	141.62E	38–5	6.3,6.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ37.00000°,λ-85.00000°. NP2:ϕ_s8.00000°,δ53.00000°,λ-94.00000°. $M_0$2.37000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=161.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=138.0.
MOS Error ellipse: s-maj=7.0km s-min=4.9km az=101.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=10.1km s-min=8.7km az=114.0.
(228) Near east coast of eastern Honshu
ISC III 12 01 46 19.7–.44 37.35N–.04 141.91E–.04 28–2 5.1b 428 1-152
BJI III 12 01 46 17.1 37.29N 141.78E 16 6.3s,6.1 ¶602707122
ISCJB III 12 01 46 19.5–1.0 37.34N–.02 141.90E–.03 33–7 6.2s,5.2b
NEIC III 12 01 46 20.5–1.4 37.33N 141.75E 32–10 5.5b,5.2b
MOS III 12 01 46 20.4–.94 37.67N 141.74E 32 5.3b,5.2b
JMA III 12 01 46 20.9–.30 37.37N 141.83E 36–4 5.2,5.2b
IDC III 12 01 46 22.0–.63 37.35N 141.79E 45–5 4.8,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=149.8.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=128.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=95.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=10.7km s-min=9.2km az=124.0.
(229) Off east coast of Honshu
ISC III 12 01 47 16.2–.38 37.59N–.03 142.75E–.03 25–2 6.5s,6.1b 2183 2-160
NIED III 12 01 47 00 37.50N 142.80E 8 6.4W,6.1b ¶602707301
ISCJB III 12 01 47 11.6–.66 37.61N–.02 142.75E–.01 4–4 6.6s,6.0b
JMA III 12 01 47 12.6–.30 37.48N 142.75E 0 6.8,6.0b
IDC III 12 01 47 12.1–.30 37.60N 142.76E 0 6.7,6.7s
BJI III 12 01 47 13.9 37.65N 142.65E 20 6.8s,6.7b
MOS III 12 01 47 14.3–1.4 37.67N 142.90E 33 6.7s,6.3b
NEIC III 12 01 47 15.4–.08 37.59N 142.65E 20 6.5W,6.5W
GCMT III 12 01 47 15.4–.10 37.57N 142.84E 14–0 6.5W,6.5W
NEIC III 12 01 47 16.0–.00 37.39N 143.28E 15 6.5W,6.5W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ31.00000°,λ-127.00000°. NP2:ϕ_s52.00000°,δ65.00000°,λ-70.00000°. $M_0$4.74000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=158.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=10.0km s-min=8.2km az=96.0.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=92.5.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=143.0. Recorded [3 JMA] in Fukushima, Ibaraki, Iwate, Miyagi, Nagano and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s80 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.97 $M_{\theta\theta}$0.66 $M_{\phi\phi}$3.31 $M_{r\theta}$-3.47 $M_{\theta\phi}$1.64 $M_{\phi r}$-3.09 Best double couple: NP1:ϕ_s42.00000°,δ70.00000°,λ-78.00000°. NP2: ϕ_s191.00000°,δ23.00000°,λ-119.00000°. Principal axes: T 6.0300,Plg24.0000° ,Azm123.0000°; N 0.2400,Plg11.0000°,Azm218.0000°; P -6.2700,Plg63.0000° ,Azm331.0000° $M_0$6.20000×10^{18} Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ15.00000°,λ-90.00000°. NP2: ϕ_s45.00000°,δ75.00000°,λ-90.00000°. Principal axes: T Plg30.0000°,Azm135.0000° ; N Plg0.0000°,Azm0.0000°; P Plg60.0000°,Azm315.0000°
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s138,c298; s145,c388;Duration: 4s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.95±.04 $M_{\theta\theta}$1.21±.03; $M_{\phi\phi}$3.74±.03; $M_{r\theta}$-3.62±.10; $M_{\theta\phi}$2.37±.02; $M_{\phi r}$-2.70±.09; Best double couple: NP1:ϕ_s45.00000°,δ66.00000°,λ-78.00000°. NP2:ϕ_s197.00000° ,δ27.00000°,λ-116.00000°. Principal axes: T 6.7140,Plg20.0000°,Azm126.0000° ; N 0.1330,Plg11.0000°,Azm220.0000°; P -6.8470,Plg67.0000°,Azm338.0000° $M_0$6.78100×10^{18}
NEIC Event type se. Moment Tensor Solution. s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.72 $M_{\theta\theta}$2.40 $M_{\phi\phi}$3.33 $M_{r\theta}$-3.01 $M_{\theta\phi}$1.02 $M_{\phi r}$-2.20 Best double couple: NP1:ϕ_s45.00000° ,δ64.00000°,λ-83.00000°. NP2:ϕ_s211.00000°,δ27.00000°,λ-102.00000°. Principal axes: T 5.1500,Plg18.0000°,Azm130.0000°; N 1.8800,Plg5.0000°,Azm222.0000° ; P -7.0300,Plg70.0000°,Azm328.0000° $M_0$6.30000×10^{18}
(228) Near east coast of eastern Honshu
JMA III 12 01 49 36.9–.10 36.52N 140.93E 49–2 4.5
¶602656682
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 01 52 07.8–.30 35.94N 141.21E 21 3.8
¶602656681
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 01 58 38.1–.67 37.36N–.08 142.80E–.08 24 4.3b 30 2-89
IDC III 12 01 58 35.0–2.6 37.44N 142.77E 0 4.3,4.1 ¶16442336
ISCJB III 12 01 58 36.1–.53 37.35N–.07 142.88E–.10 24 4.2b,4.1
NEIC III 12 01 58 37.4–4.3 37.42N 142.79E 17–26 4.5b,4.1
JMA III 12 01 58 55.4–.20 36.39N 141.58E 75–3 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=67.5km s-min=26.4km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=6.4km az=40.3.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=7.8km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(227) Eastern Honshu
JMA III 12 01 59 25.1 36.97N 138.59E 7–1 2.1
¶603049534
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 12 01 59 41.8–.69 37.49N–.04 142.95E–.04 20–2 5.2b 560 2-154
IDC III 12 01 59 38.6–.41 37.51N 143.03E 0 5.0,4.9 ¶17194219
BJI III 12 01 59 39.8 37.50N 142.99E 27 5.6s,5.5
ISCJB III 12 01 59 40.1–1.1 37.42N–.02 142.83E–.02 15–6 5.1s,5.1b
MOS III 12 01 59 42.1–1.2 37.43N 142.86E 32 5.3b,5.1b
JMA III 12 01 59 43.0–.30 37.43N 142.65E 19 5.5,5.1b
NEIC III 12 01 59 43.5–2.0 37.48N 142.80E 27–14 5.2b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=10.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=155.9.
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=114.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=142.0.
(228) Near east coast of eastern Honshu
ISC III 12 02 04 51.6–1.8 36.55N–.04 141.67E–.06 12–10 4.6b 128 1-151
IDC III 12 02 04 49.3–.50 36.50N 141.67E 0 4.5,4.4 ¶16310146
ISCJB III 12 02 04 52.5–.94 36.54N–.03 141.65E–.04 27–6 4.5b,4.4
JMA III 12 02 04 53.9–.30 36.54N 141.43E 0 4.6,4.4
NEIC III 12 02 04 54.5–1.4 36.53N 141.60E 30–9 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=12.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=18.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=129.0.
(228) Near east coast of eastern Honshu
JMA III 12 02 06 56.2 36.73N 140.65E 6–3 3.7
¶603049535
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 12 02 07 20.1–.33 37.79N–.05 143.12E–.06 18 4.9b 246 2-154
IDC III 12 02 07 16.9–.42 37.78N 143.29E 0 4.7,4.7 ¶602656676
ISCJB III 12 02 07 18.6–.18 37.78N–.03 143.16E–.03 18 4.8b,4.7
NEIC III 12 02 07 19.0–1.8 37.81N 143.18E 10–11 4.9b,4.7
JMA III 12 02 07 20.3–.60 37.86N 143.00E 29 5.2,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.1km az=150.9.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.
(227) Eastern Honshu
JMA III 12 02 14 37.4 36.92N 138.60E 0 2.1
¶602656670
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 02 14 39.7–.41 39.32N–.05 143.13E–.07 18 4.8b 117 3-150
IDC III 12 02 14 37.2–.57 39.29N 143.05E 0 4.7,4.6 ¶602656666
ISCJB III 12 02 14 38.4–.27 39.36N–.03 143.06E–.05 18 4.8b,4.6
JMA III 12 02 14 39.9–.20 39.38N 143.00E 13–2 5.7,4.6
NEIC III 12 02 14 41.5–2.0 39.37N 143.04E 29–13 4.9b,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=14.5km s-min=12.6km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=22.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.7km az=131.0.
(228) Near east coast of eastern Honshu
JMA III 12 02 15 20.4–.30 35.20N 141.57E 46 4.1
¶603049539
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 02 20 22.6–.73 38.04N–.08 141.55E–.10 68 3.9b 18 1-89
JMA III 12 02 20 20.1–.10 38.16N 141.80E 44 4.3 ¶16442339
ISCJB III 12 02 20 21.0–.62 38.07N–.07 141.65E–.09 68 3.7b
IDC III 12 02 20 20.0–4.0 38.04N 141.70E 43–36 3.8,3.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.6km az=37.4.
IDC Error ellipse: s-maj=33.8km s-min=18.6km az=83.0.
(228) Near east coast of eastern Honshu
JMA III 12 02 22 29.9 36.74N 140.63E 10–1 3.0
¶603049540
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 12 02 22 42.4–.20 36.16N 141.36E 43–5 3.8
¶17194225
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 12 02 28 42.8 37.03N 138.60E 11–1 2.4
¶603049541
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 02 30 02.1–.54 38.46N–.07 142.17E–.07 41 4.2b 62 1-151
ISCJB III 12 02 30 00.6–.36 38.48N–.05 142.16E–.05 41 4.3b ¶16442345
JMA III 12 02 30 01.1–.30 38.52N 142.12E 46 4.7
NEIC III 12 02 30 02.8–1.4 38.49N 142.06E 46–12 4.5b
IDC III 12 02 30 05.9–2.2 38.47N 142.00E 73–20 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.0km az=139.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.9km az=144.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=17.4km s-min=13.3km az=122.0.
(228) Near east coast of eastern Honshu
ISC III 12 02 34 03.7–.30 36.71N–.03 141.56E–.04 21–3 5.5s,5.2b 890 1-155
NIED III 12 02 34 00 36.70N 141.60E 11 5.0W,5.2b ¶17194229
BJI III 12 02 34 00.7 36.54N 141.73E 25 5.7s,5.6
MOS III 12 02 34 04.0–.98 36.65N 141.51E 33 5.4b,5.6
JMA III 12 02 34 04.1–.20 36.74N 141.61E 46–3 5.2,5.6
ISCJB III 12 02 34 04.3–.65 36.67N–.02 141.49E–.02 32–4 5.5s,5.2b
IDC III 12 02 34 05.4–3.2 36.64N 141.59E 33–24 5.1s,5.1
NEIC III 12 02 34 05.0–1.2 36.67N 141.43E 27–8 5.2b,5.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ26.00000°,λ125.00000°. NP2:ϕ_s23.00000°,δ69.00000°,λ74.00000°. $M_0$3.98000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=100.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=143.1.
IDC Error ellipse: s-maj=10.3km s-min=9.0km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=130.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC III 12 02 37 27.8–.43 40.05N–.05 142.93E–.05 12 4.8b 150 2-150
ISCJB III 12 02 37 26.3–.31 40.04N–.04 142.88E–.05 12 4.7b ¶602656639
NEIC III 12 02 37 29.4–2.8 40.13N 142.72E 18–17 5.0b
MOS III 12 02 37 29.2–.83 40.07N 142.77E 30 5.2b
JMA III 12 02 37 30.7–.30 40.02N 142.75E 35 5.1
IDC III 12 02 37 36.7–2.4 40.06N 142.64E 79–21 4.6,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.8km az=43.7.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=137.0.
MOS Error ellipse: s-maj=9.9km s-min=6.5km az=93.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=13.7km az=129.0.
(228) Near east coast of eastern Honshu
ISC III 12 02 43 09.9–.44 39.13N–.04 142.51E–.04 27–2 5.0b 418 2-155
BJI III 12 02 43 05.0 38.96N 142.69E 20 5.7s,5.6 ¶602656637
ISCJB III 12 02 43 09.9–1.2 39.14N–.03 142.34E–.03 33–8 5.4s,4.9b
MOS III 12 02 43 09.3–.86 39.15N 142.38E 31 5.2b,4.9b
NEIC III 12 02 43 10.1–1.2 39.10N 142.30E 25–8 5.0b,4.9b
JMA III 12 02 43 10.6–.10 39.20N 142.43E 28–3 4.9,4.9b
IDC III 12 02 43 11.7–.49 39.12N 142.37E 37–4 4.7,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=142.9.
MOS Error ellipse: s-maj=7.4km s-min=5.1km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=141.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.8km az=99.0.
(229) Off east coast of Honshu
ISC III 12 02 47 34.8–.37 37.66N–.03 143.68E–.03 24–2 5.8s,5.6b 1228 2-159
NIED III 12 02 47 00 37.50N 143.50E 32 5.8W,5.6b ¶17194232
BJI III 12 02 47 30.5 37.60N 143.70E 16 6.1b,6.0s
IDC III 12 02 47 30.9–.33 37.56N 143.72E 0 5.6,5.6s
NEIC III 12 02 47 33.5–1.6 37.60N 143.61E 15–9 5.7b,5.6s
ISCJB III 12 02 47 33.9–.08 37.61N–.02 143.62E–.02 27 5.8s,5.6b
GCMT III 12 02 47 33.5–.20 37.63N 143.71E 15–0 5.9W,5.6b
JMA III 12 02 47 34.0–.30 37.59N 143.59E 40 5.9,5.6b
MOS III 12 02 47 34.8–.90 37.64N 143.60E 33 5.8b,5.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ75.00000°,λ171.00000°. NP2:ϕ_s62.00000°,δ81.00000°,λ16.00000°. $M_0$6.60000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=8.8km az=97.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.6km az=157.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c55; s138,c261; Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16±.02 $M_{\theta\theta}$-0.57±.01; $M_{\phi\phi}$0.73±.02; $M_{r\theta}$0.10±.05; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$0.30±.05; Best double couple: NP1:ϕ_s59.00000°,δ81.00000° ,λ15.00000°. NP2:ϕ_s327.00000°,δ75.00000°,λ171.00000°. Principal axes: T 0.9000,Plg16.0000°,Azm284.0000°; N -0.2470,Plg73.0000°,Azm88.0000° ; P -0.6530,Plg4.0000°,Azm192.0000° $M_0$0.77600×10^{18}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=4.2km az=105.4.
(228) Near east coast of eastern Honshu
ISC III 12 02 50 35.0–2.4 36.94N–.04 141.10E–.06 17–14 4.5b 25 0-147
IDC III 12 02 50 32.8–.92 37.01N 141.08E 0 4.7,4.4 ¶17194234
JMA III 12 02 50 34.4–.10 36.97N 141.16E 48–1 4.2,4.4
ISCJB III 12 02 50 35.0–.77 36.91N–.04 141.15E–.06 31–4 4.4b,4.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 02 52 34.5–.90 37.19N–.04 141.10E–.04 18–3 4.7b 87 0-152
NIED III 12 02 52 00 37.20N 141.20E 5 4.9W ¶602656440
ISCJB III 12 02 52 33.2–.78 37.17N–.04 141.22E–.05 22–5 4.6b
JMA III 12 02 52 34.2–.10 37.23N 141.15E 16–1 5.1
NEIC III 12 02 52 37.0–.87 37.21N 141.02E 36–7 4.9b
IDC III 12 02 52 38.3–2.2 37.19N 141.02E 45–20 4.5,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ46.00000°,λ-54.00000°. NP2:ϕ_s189.00000°,δ55.00000°,λ-121.00000°. $M_0$2.57000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.1km az=152.5.
JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=5.7km az=144.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.0km s-min=12.3km az=143.0.
(228) Near east coast of eastern Honshu
JMA III 12 02 53 47.8–.10 37.23N 141.14E 14–1 4.1 ¶603049542
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 02 56 23.3–.91 37.20N–.05 141.10E–.07 23–5 4.5b 69 0-151
ISCJB III 12 02 56 21.3–.97 37.21N–.05 141.20E–.07 21–6 4.3b **¶16445721**
JMA III 12 02 56 22.2–.10 37.21N 141.15E 15–1 4.7
NEIC III 12 02 56 25.6–.91 37.25N 141.11E 39–8 4.6b
IDC III 12 02 56 26.5–2.4 37.22N 141.03E 46–21 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.3km az=27.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.6km az=176.0.
IDC Error ellipse: s-maj=18.0km s-min=16.0km az=153.0.
(228) Near east coast of eastern Honshu
ISC III 12 02 57 13.4–.72 37.5N–.10 143.75E–.10 35 4.4b 33 2-150
IDC III 12 02 57 08.5–.82 37.55N 143.76E 0 4.4,4.1 **¶16449488**
ISCJB III 12 02 57 11.2–.48 37.56N–.08 143.59E–.08 33 4.3b,4.1
NEIC III 12 02 57 12.3–4.9 37.59N 143.65E 27–33 4.5b,4.1
JMA III 12 02 57 37.2–.10 37.23N 141.15E 13–1 3.7,4.1
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=19.3km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=8.2km az=150.6.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=10.0km az=143.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 02 59 17.1–1.9 36.22N–.07 141.28E–.08 27–12 4.3b 23 1-80
IDC III 12 02 59 12.1–.88 36.44N 141.79E 0 4.4,4.3 **¶602656432**
ISCJB III 12 02 59 17.6–1.1 36.22N–.06 141.28E–.10 44–9 4.3b,4.3
JMA III 12 02 59 19.3–.10 36.18N 141.03E 38–2 4.5,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=19.8km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=9.3km az=8.9.
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 12 02 59 19.8–.41 37.58N–.06 144.42E–.07 35 4.7b 117 3-153
IDC III 12 02 59 14.9–.42 37.65N 144.48E 0 4.6,4.6 **¶17194236**
NEIC III 12 02 59 18.9–1.7 37.66N 144.40E 28–12 4.9b,4.6
ISCJB III 12 02 59 18.1–.29 37.58N–.04 144.44E–.05 33 4.7b,4.6
JMA III 12 02 59 29.4–.40 37.72N 143.43E 59 5.4,4.6
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=11.0km az=132.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=136.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 03 01 46.9–.48 39.63N–.03 142.80E–.03 18–2 5.8b,5.5s 1721 2-159
NIED III 12 03 01 00 39.60N 142.90E 14 5.4W,5.5s **¶16308520**
IDC III 12 03 01 43.8–.31 39.49N 142.73E 0 5.6,5.6
ISCJB III 12 03 01 44.7–.74 39.59N–.02 142.72E–.02 10–4 5.7b,5.5s
JMA III 12 03 01 44.9–.20 39.57N 142.89E 11 5.6,5.5s
BJI III 12 03 01 44.1 39.47N 142.90E 24 5.8b,5.6b
NEIC III 12 03 01 47.4–1.3 39.55N 142.60E 20–7 5.8b,5.6b
MOS III 12 03 01 48.3–.96 39.76N 142.72E 34 6.0b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ44.00000°,λ-110.00000°. NP2:ϕ_s65.00000°,δ49.00000°,λ-72.00000°. $M_0$1.32000×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=8.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=142.0. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=91.3.
(228) Near east coast of eastern Honshu
ISC III 12 03 06 22.5–.56 39.03N–.06 142.87E–.08 16 4.8b 59 2-117
IDC III 12 03 06 20.0–.64 39.15N 142.90E 0 4.6,4.5 **¶602656430**
ISCJB III 12 03 06 20.8–.39 39.03N–.04 142.88E–.06 16 4.6b,4.5
JMA III 12 03 06 25.1–.30 39.04N 142.70E 42 5.2,4.5
NEIC III 12 03 06 25.3–2.6 39.13N 142.83E 33–18 4.9b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=17.0km s-min=15.4km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=40.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.4km az=130.0.
(228) Near east coast of eastern Honshu
JMA III 12 03 07 33.2–.30 35.24N 141.25E 30 3.9 ¶16449493
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 03 10 18.7–.20 37.68N 141.88E 12–3 4.5 ¶602656423
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 12 03 11 29.5–.10 37.07N 138.63E 13–2 2.4 ¶603049547
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 03 11 59.6–.65 35.99N–.03 141.44E–.03 31–4 5.6b,5.5s 1543 1-161
NIED III 12 03 11 00 36.00N 141.60E 23 5.5W,5.5s **¶16308521**
BJI III 12 03 11 55.1 36.09N 141.50E 18 5.8b,5.5s
MOS III 12 03 11 57.9–1.4 36.12N 141.62E 32 5.9b,5.7s
NEIC III 12 03 11 57.8–1.3 35.95N 141.34E 17–8 5.7b,5.7s
GCMT III 12 03 11 57.8–.60 36.03N 141.54E 35–0 5.9W,5.7s
JMA III 12 03 11 58.3–.20 35.98N 141.61E 37–3 5.6,5.7s
ISCJB III 12 03 11 59.5–.38 35.96N–.02 141.44E–.02 39–3 5.6b,5.6s
IDC III 12 03 12 01.1–1.5 35.94N 141.44E 41–13 5.4,5.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ32.00000°,λ-98.00000°. NP2:ϕ_s83.00000°,δ58.00000°,λ-85.00000°. $M_0$1.68000×10^{17}
MOS Error ellipse: s-maj=8.6km s-min=5.6km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=137.0. Recorded [3 JMA] in Fukushima.
GCMT Error ellipse: s-maj=6.7km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s72,c89; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.09±.06 $M_{\theta\theta}$0.66±.03; $M_{\phi\phi}$0.42±.03; $M_{r\theta}$-0.07±.03; $M_{\theta\phi}$0.01±.01; $M_{\phi r}$-0.03±.04; Best double couple: NP1:ϕ_s88.00000°,δ47.00000°,λ-91.00000°. NP2:ϕ_s270.00000°,δ43.00000°,λ-89.00000°. Principal axes:
T 0.6650,Plg2.0000°,Azm179.0000°; N 0.4240,Plg1.0000°,Azm89.0000°
; P -1.0930,Plg88.0000°,Azm336.0000° $M_0$0.87900×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=160.4.
IDC Error ellipse: s-maj=9.9km s-min=7.2km az=91.0.
(228) Near east coast of eastern Honshu
JMA III 12 03 15 36.7–.20 36.83N 141.12E 46–1 4.1 ¶602656412
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 03 20 27.5–1.6 36.83N–.05 141.50E–.08 32–10 4.3b 35 1-147
IDC III 12 03 20 17.0–1.1 35.97N 142.09E 0 4.3,4.2 **¶16451994**
NEIC III 12 03 20 18.8–5.3 35.96N 142.08E 12–32 4.4b,4.2
JMA III 12 03 20 31.5–.10 36.80N 141.10E 45–1 4.0,4.2
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=21.1km az=61.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=8.7km az=59.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 03 22 45.9–.30 37.69N 141.75E 34–5 4.3 ¶602656409
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 03 28 46.1–3.3 36.06N–.05 142.09E–.06 12–20 4.5b 92 1-147
IDC III 12 03 28 44.2–.55 36.05N 142.16E 0 5.0s,5.0 **¶602656405**
ISCJB III 12 03 28 45.7–1.6 36.05N–.03 142.12E–.05 21–11 5.0s,4.4b
NEIC III 12 03 28 47.0–2.8 36.02N 142.11E 18–17 4.6b,4.4b
JMA III 12 03 28 46.4–.30 36.10N 142.16E 64 4.3,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.0km az=32.4.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.7km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 03 34 46.3–.26 35.24N–.03 141.18E–.04 35 5.3b,5.2s 866 1-159
NIED III 12 03 34 00 35.20N 141.20E 20 5.1W,5.2s **¶16308524**
IDC III 12 03 34 40.9–.41 35.29N 141.20E 0 5.1,5.0
BJI III 12 03 34 41.9 35.29N 141.20E 27 5.6b,5.3s
NEIC III 12 03 34 43.9–2.6 35.22N 140.95E 14–16 5.3b,5.3s
MOS III 12 03 34 43.3–.84 35.44N 141.59E 36 5.5b,5.3s
JMA III 12 03 34 44.0–.10 35.22N 141.21E 40–3 5.5,5.3s
ISCJB III 12 03 34 45.7–.10 35.20N–.02 140.98E–.02 35 5.2b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ27.00000°,λ180.00000°. NP2:ϕ_s47.00000°,δ90.00000°,λ63.00000°. $M_0$4.79000×10^{16}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 12 03 39 31.6–.10 37.43N 141.33E 29–1 3.4 ¶603049552
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 03 48 49.4–.20 35.86N 140.95E 12–2 3.3 ¶602656350
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 03 49 25.3–1.5 35.87N–.04 140.89E–.10 4–11 3.8b 12 0-75
NIED III 12 03 49 00 35.90N 140.90E 11 4.7W **¶16452007**
IDC III 12 03 49 10.0–1.0 33.26N 141.07E 0 4.0,3.9
ISCJB III 12 03 49 24.3–1.7 35.87N–.07 141.0E–.10 9–11 3.9b,3.9
JMA III 12 03 49 24.4–.10 35.88N 140.95E 7–2 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ65.00000°,λ-5.00000°. NP2:ϕ_s125.00000°,δ85.00000°,λ-155.00000°. $M_0$1.06000×10^{16}
IDC Error ellipse: s-maj=38.5km s-min=23.5km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=18.7km s-min=12.3km az=174.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 03 51 03.9–.10 36.01N 141.04E 32–2 4.1 ¶603049553
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 03 52 56.7–.46 37.37N–.06 142.53E–.06 21 4.8b 154 1-146
BJI III 12 03 52 51.4 37.34N 143.01E 23 5.2b,5.1s **¶16452009**
IDC III 12 03 52 53.2–.51 37.33N 142.64E 0 4.6,4.6b
ISCJB III 12 03 52 55.4–.29 37.32N–.04 142.57E–.05 21 5.6s,4.7b
NEIC III 12 03 52 56.2–2.3 37.37N 142.62E 18–14 4.9b,4.7b
JMA III 12 03 52 57.0–.40 37.38N 142.45E 36 4.5,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=143.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 03 54 47.3–.42 35.88N–.03 141.34E–.04 26–2 4.9b,4.9s 400 0-152
NIED III 12 03 54 00 35.90N 141.50E 26 4.9W,4.9s **¶16404902**
IDC III 12 03 54 42.9–.40 35.81N 141.38E 0 4.7,4.7
BJI III 12 03 54 43.5 35.72N 141.42E 18 5.4b,5.1s
NEIC III 12 03 54 44.7–1.9 35.79N 141.23E 9–12 5.0b,5.1s
JMA III 12 03 54 45.2–.20 35.93N 141.45E 16–2 5.0,5.1s
ISCJB III 12 03 54 47.0–.70 35.84N–.02 141.24E–.03 32–5 4.9s,4.9b
MOS III 12 03 54 46.3–.92 35.78N 141.28E 35 5.2b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ40.00000°,λ-75.00000°. NP2:ϕ_s168.00000°,δ51.00000°,λ-103.00000°. $M_0$2.98000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.5km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=129.0. Recorded [3 JMA] in Chiba.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.6km az=135.9.
MOS Error ellipse: s-maj=8.3km s-min=5.7km az=100.8.
(228) Near east coast of eastern Honshu
ISC III 12 04 06 09.0–.43 38.86N–.03 141.93E–.04 31–2 5.2b,5.1s 743 2-155
NIED III 12 04 06 00 38.70N 142.20E 47 5.3W,5.1s **¶602656310**
BJI III 12 04 06 04.6 38.70N 142.16E 28 5.6b,5.3b
JMA III 12 04 06 08.8–.30 38.74N 142.17E 40 5.3,5.3b
MOS III 12 04 06 08.4–1.0 38.90N 141.88E 39 5.5b,5.2s
ISCJB III 12 04 06 09.2–.43 38.89N–.02 141.86E–.03 42–3 5.2b,5.2s
NEIC III 12 04 06 10.2–.48 38.87N 141.78E 38–4 5.2b,5.2s
IDC III 12 04 06 11.3–2.1 38.83N 141.85E 49–19 5.0,4.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ96.00000°. $M_0$9.40000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=97.5.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=148.2.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=145.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=142.0.
(228) Near east coast of eastern Honshu
ISC III 12 04 16 56.2–.94 35.96N–.07 141.33E–.08 26 3.7b 11 0-78
IDC III 12 04 16 51.9–1.5 35.81N 141.45E 0 3.9,3.8 **¶17194249**
ISCJB III 12 04 16 55.2–.85 36.05N–.07 141.33E–.09 26 3.7b,3.8
JMA III 12 04 16 55.0–.20 36.09N 141.27E 26–4 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=30.0km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=7.6km az=37.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 04 21 08.8–.93 36.76N–.03 140.63E–.05 14–6 4.3b 28 0-83
IDC III 12 04 21 06.5–1.5 36.87N 140.76E 0 4.3,4.2 **¶17194250**
ISCJB III 12 04 21 08.4–.58 36.76N–.03 140.69E–.05 20–4 4.1b,4.2
JMA III 12 04 21 09.1–.20 36.79N 140.58E 1–3 4.3,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=28.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=24.8.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 04 24 25.6–.46 35.91N–.05 141.47E–.07 26 4.3b 66 1-152
IDC III 12 04 24 21.7–.61 35.88N 141.41E 0 4.4,4.2 **¶600540836**
ISCJB III 12 04 24 23.9–.32 35.93N–.03 141.56E–.05 26 4.3b,4.2
NEIC III 12 04 24 25.7–1.7 35.84N 141.45E 28–12 4.4b,4.2
JMA III 12 04 24 26.1–.10 35.98N 141.44E 42–2 4.2,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=15.9km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.7km az=31.2.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.7km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 04 28 54.8–.54 36.63N–.07 141.88E–.05 19 4.2b 39 1-147

IDC III 12 04 28 52.0–.62 36.68N 141.96E 0 4.3L,4.2 ¶602656844
ISCJB III 12 04 28 52.8–.36 36.56N–.05 142.05E–.05 19 4.2b,4.2
JMA III 12 04 28 56.1–.30 36.66N 141.92E 35–5 4.5,4.2
NEIC III 12 04 28 57.4–1.2 36.61N 141.92E 39–12 4.4b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.1km s-min=15.2km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.4km az=156.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=9.2km az=45.0.

(228) Near east coast of eastern Honshu

ISC III 12 04 37 20.5–.71 36.23N–.04 141.10E–.05 25–4 4.7b 155 1-147
NIED III 12 04 37 00 36.30N 141.10E 29 4.5W ¶16308528
NEIC III 12 04 37 20.5–1.8 36.21N 141.05E 24–12 4.7b
JMA III 12 04 37 21.6–.10 36.26N 141.13E 40–3 4.4
ISCJB III 12 04 37 21.6–.56 36.23N–.03 141.10E–.05 44–5 4.6b
IDC III 12 04 37 23.6–1.8 36.19N 141.08E 50–17 4.5,4.4L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ26.00000°,λ6.00000°. NP2:ϕ_s73.00000°,δ87.00000°,λ116.00000°. $M_0$5.72000×10^{15}
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=147.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.3km az=8.4.
IDC Error ellipse: s-maj=13.1km s-min=10.0km az=89.0.

(227) Eastern Honshu

JMA III 12 04 43 00.9 36.95N 138.57E 7–2 3.5 ¶602656818
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 12 04 43 03.2–.46 35.94N–.05 141.44E–.06 28–3 4.8b 357 1-152
IDC III 12 04 42 58.6–.49 35.92N 141.45E 0 4.7,4.6 ¶17194256
NEIC III 12 04 43 00.7–2.0 35.88N 141.38E 11–12 4.9b,4.6
JMA III 12 04 43 03.2–.30 35.99N 141.43E 37–4 4.3,4.6
ISCJB III 12 04 43 03.8–.62 35.94N–.03 141.34E–.04 43–6 4.7b,4.6
ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 12 04 47 18.6–.38 35.93N–.04 141.47E–.04 31–2 5.0b 591 1-152
NIED III 12 04 47 00 36.10N 141.50E 26 4.9W ¶17194258
BJI III 12 04 47 14.8 35.84N 141.26E 14 5.2b,5.2s
MOS III 12 04 47 16.8–.74 35.90N 141.48E 33 5.2b,5.2s
ISCJB III 12 04 47 18.9–.56 35.91N–.03 141.38E–.03 43–5 5.1s,5.0b
NEIC III 12 04 47 18.8–.38 35.91N 141.34E 31–2 5.1b,5.0b
JMA III 12 04 47 18.0–.20 36.05N 141.51E 28–5 4.9,5.0b
IDC III 12 04 47 20.9–1.6 35.88N 141.48E 51–15 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ44.00000°,λ-83.00000°. NP2:ϕ_s282.00000°,δ46.00000°,λ-97.00000°. $M_0$2.28000×10^{16}
MOS Error ellipse: s-maj=9.7km s-min=6.5km az=110.9.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=164.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=152.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.4km s-min=9.1km az=98.0.

(229) Off east coast of Honshu

ISC III 12 04 52 55.1–.36 40.13N–.03 143.41E–.03 17–1 5.8s,5.4b 1165 2-154
NIED III 12 04 52 00 40.10N 143.60E 20 5.6W,5.4b ¶602656810
IDC III 12 04 52 52.9–.39 40.10N 143.34E 0 5.5,5.5s
JMA III 12 04 52 52.1–.20 40.06N 143.56E 8 5.7,5.5s
ISCJB III 12 04 52 53.2–.70 40.10N–.02 143.28E–.02 10–4 5.7s,5.4b
MOS III 12 04 52 55.9–1.0 40.19N 143.31E 33 5.7b,5.5s
BJI III 12 04 52 55.4 40.01N 143.08E 23 5.9b,5.8s
NEIC III 12 04 52 57.1–1.3 40.08N 143.20E 26–9 5.3b,5.8s
GCMT III 12 04 52 57.1–.30 40.07N 143.52E 29–1 5.8W,5.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ26.00000°,λ49.00000°. NP2:ϕ_s30.00000°,δ70.00000°,λ108.00000°. $M_0$2.99000×10^{17}
IDC Error ellipse: s-maj=11.3km s-min=9.9km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=144.3.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=95.9.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=140.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c41; s92,c143; Duration: 1ŧ8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95±.23 $M_{\theta\theta}$-0.89±.13; $M_{\phi\phi}$-3.06±.14; $M_{r\theta}$1.74±.24; $M_{\theta\phi}$-0.31±.06; $M_{\phi r}$3.37±.21; Best double couple: NP1:ϕ_s21.00000°,δ69.00000°,λ97.00000°. NP2:ϕ_s183.00000°,δ22.00000°,λ73.00000°. Principal axes: T 5.6550,Plg66.0000°,Azm303.0000°; N -0.9840,Plg6.0000°,Azm199.0000°; P -4.6660,Plg23.0000°,Azm106.0000° $M_0$5.16000×10^{17}

(228) Near east coast of eastern Honshu

JMA III 12 04 53 23.3 36.79N 140.57E 5–4 3.5 ¶600540865
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 12 04 58 22.0–3.6 36.90N–.08 141.2E–.20 43–20 4.2b 12 0-64
JMA III 12 04 58 22.5–.10 36.91N 141.07E 50–1 4.0 ¶602656798
IDC III 12 04 58 31.1–1.6 36.51N 139.78E 0 4.2,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=31.3km az=171.0.

(228) Near east coast of eastern Honshu

ISC III 12 05 01 29.3–.45 38.04N–.06 142.40E–.08 14 4.7b 61 1-146
IDC III 12 05 01 27.0–.64 38.04N 142.39E 0 4.2,4.2b ¶602656779
ISCJB III 12 05 01 27.4–.34 38.00N–.04 142.38E–.07 14 4.6b,4.2b
NEIC III 12 05 01 30.6–2.1 38.03N 142.46E 23–15 4.6b,4.2b
JMA III 12 05 01 41.7–.30 37.14N 141.44E 38–4 3.7,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=13.4km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.4km az=30.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.2km az=111.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 12 05 03 22.0–.44 35.97N–.05 141.37E–.06 26 4.5b 82 0-147
IDC III 12 05 03 17.6–.64 35.92N 141.38E 0 4.4,4.3b ¶602656772
ISCJB III 12 05 03 20.7–.30 35.99N–.04 141.43E–.04 26 4.5b,4.3b
JMA III 12 05 03 21.9–.20 36.02N 141.43E 37–3 4.0,4.3b
NEIC III 12 05 03 25.8–.96 36.00N 141.26E 55–9 4.7b,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=17.3km s-min=14.8km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=154.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.4km az=137.0.

(228) Near east coast of eastern Honshu

ISC III 12 05 14 46.8–1.1 36.79N–.02 140.50E–.03 5–6 4.9b 435 0-147
NIED III 12 05 14 00 36.80N 140.70E 5 4.7W ¶600540926
JMA III 12 05 14 46.7 36.75N 140.65E 10–2 4.8
ISCJB III 12 05 14 48.6–.50 36.84N–.03 140.48E–.03 20–3 4.8b
NEIC III 12 05 14 53.6–.47 36.82N 140.35E 50–4 4.9b
IDC III 12 05 14 53.4–1.4 36.79N 140.53E 53–13 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ26.00000°,λ-95.00000°. NP2:ϕ_s154.00000°,δ65.00000°,λ-88.00000°. $M_0$1.24000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=143.9.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=153.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=9.9km s-min=8.5km az=76.0.

(228) Near east coast of eastern Honshu

JMA III 12 05 26 38.3–.10 36.96N 141.13E 47–1 3.8 ¶603049560
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 12 05 39 10.9–.40 36.00N 141.57E 34 3.4 ¶603049563
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 12 05 41 42.2–.10 35.76N 141.06E 35–1 3.6 ¶603049564
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 12 05 45 17.0–2.0 37.22N–.06 141.33E–.08 26–13 4.0b 29 0-90
JMA III 12 05 45 18.4–.20 37.23N 141.31E 30–2 4.4 ¶16476815
IDC III 12 05 45 22.2–3.2 37.23N 141.13E 70–29 3.7,3.7
NEIC III 12 05 45 23.4–1.2 37.48N 140.70E 35 3.7,3.7
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=17.5km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=26.9km s-min=13.9km az=110.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC III 12 05 50 43.7–1.1 36.90N–.04 138.57E–.05 35 12 0-60
IDC III 12 05 50 43.3–2.9 36.77N 138.46E 51–13 3.8,3.8 ¶600541008
ISCJB III 12 05 50 44.6–.52 36.91N–.04 138.59E–.05 35 3.9b,3.8
JMA III 12 05 50 45.6 36.94N 138.60E 4–1 3.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=45.5km s-min=7.4km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.7km az=35.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 12 05 53 25.8–1.0 36.64N–.06 141.55E–.10 20–4 4.2b 25 1-75
IDC III 12 05 53 22.3–1.6 36.69N 141.68E 0 4.2,4.2 ¶16445725
ISCJB III 12 05 53 25.8–1.1 36.63N–.05 141.58E–.09 39–10 4.2b,4.2
NEIC III 12 05 53 27.3–.91 36.67N 141.64E 35 4.6b,4.2
JMA III 12 05 53 28.5–.20 36.69N 141.35E 41–3 3.6,4.2
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=21.6km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.7km az=160.3.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=9.9km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(162) South Island

WEL III 12 05 54 48.2–.08 43.62S 172.74E 8–0 4.1L
NEIC III 12 05 54 47.7 43.63S 172.78E 10 4.0L ¶16309756
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(226) Near west coast of eastern Honshu

ISC III 12 05 55 12.8–1.1 36.98N–.04 138.52E–.03 8–7 4.4b 51 0-154
NIED III 12 05 55 00 36.90N 138.60E 5 4.2W ¶602656149
IDC III 12 05 55 11.6–.61 37.02N 138.48E 0 4.1,3.9b
NEIC III 12 05 55 12.4–1.7 37.06N 138.47E 4–11 4.5b,3.9b
ISCJB III 12 05 55 12.7–.46 36.97N–.03 138.50E–.04 20–4 4.3b,3.9b
JMA III 12 05 55 13.4 36.95N 138.56E 7–2 4.2,3.9b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ57.00000°,λ151.00000°. NP2:ϕ_s194.00000°,δ66.00000°,λ37.00000°. $M_0$2.02000×10^{15}
IDC Error ellipse: s-maj=21.4km s-min=7.3km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=8.9km az=131.0. Recorded [4 JMA] in Nagano.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=44.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s94.00000°,δ90.00000°,λ161.00000°. NP2:ϕ_s184.00000°,δ71.00000°,λ0.00000°. Principal axes: T Plg13.0000°,Azm47.0000°; N Plg71.0000°,Azm274.0000°; P Plg13.0000°,Azm140.0000°

(228) Near east coast of eastern Honshu

ISC III 12 06 00 24.1–.56 36.38N–.04 141.80E–.04 24–3 5.1b,4.8s 678 1-154
NIED III 12 06 00 00 36.30N 142.00E 11 5.1W,4.8s ¶16310149
IDC III 12 06 00 20.4–.45 36.40N 141.89E 0 5.1L,5.0
BJI III 12 06 00 21.9 36.32N 141.78E 27 5.4b,5.2b
JMA III 12 06 00 21.4–.30 36.33N 141.96E 26 5.3,5.2b
ISCJB III 12 06 00 23.1–1.0 36.33N–.03 141.79E–.02 27–7 5.1b,4.7s
MOS III 12 06 00 23.3–1.0 36.44N 141.91E 33 5.3b,4.7s
NEIC III 12 06 00 25.3–1.1 36.37N 141.73E 31–7 5.1b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ72.00000°,λ-15.00000°. NP2:ϕ_s91.00000°,δ76.00000°,λ-162.00000°. $M_0$5.19000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=11.3km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=161.6.
MOS Error ellipse: s-maj=8.2km s-min=6.2km az=86.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=135.0.

(229) Off east coast of Honshu

JMA III 12 06 10 43.7–.30 37.99N 143.84E 25 5.3 ¶603049567
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(229) Off east coast of Honshu

ISC III 12 06 10 44.1–.68 38.39N–.04 143.88E–.04 15–3 5.4b,5.1s 761 3-158
IDC III 12 06 10 40.4–.39 38.14N 144.04E 0 5.0,4.9 ¶17194274
MOS III 12 06 10 42.1–.97 38.09N 143.98E 26 5.5b,4.9
ISCJB III 12 06 10 42.5–.13 38.43N–.03 143.92E–.03 13 5.2b,5.1s
BJI III 12 06 10 44.8 38.17N 143.32E 10 5.3b,5.1s
GCMT III 12 06 10 45.0–.50 38.34N 144.58E 19 5.4W,5.1s
NEIC III 12 06 10 45.0–1.3 38.49N 143.80E 20–9 5.4b,5.1s
JMA III 12 06 10 48.4–.40 38.19N 144.41E 18 5.3,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=9.9km az=133.0.
MOS Error ellipse: s-maj=8.8km s-min=7.0km az=83.3.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=156.7.
GCMT Error ellipse: s-maj=6.7km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c13; s63,c100; Duration: 1ŧ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.56±.07 $M_{\theta\theta}$1.01±.07; $M_{\phi\phi}$0.54±.06; $M_{r\theta}$-0.24±.20; $M_{\theta\phi}$0.51±.04; $M_{\phi r}$0.24±.17; Best double couple: NP1:ϕ_s68.00000°,δ47.00000°,λ-76.00000°. NP2:ϕ_s227.00000°,δ45.00000°,λ-105.00000°. Principal axes: T 1.3370,Plg1.0000°,Azm148.0000°; N 0.2810,Plg10.0000°,Azm238.0000°; P -1.6220,Plg80.0000°,Azm50.0000° $M_0$1.48000×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=134.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 12 06 18 41.5–.43 39.22N–.03 142.50E–.03 31–2 5.5b,5.2s 1172 2-159
NIED III 12 06 18 00 39.20N 142.70E 32 5.3W,5.2s ¶602656073
IDC III 12 06 18 36.9–.30 39.16N 142.50E 0 5.2,5.1
JMA III 12 06 18 39.5–.10 39.16N 142.70E 44 5.5,5.1
ISCJB III 12 06 18 39.4–.70 39.19N–.02 142.43E–.02 24–4 5.4b,5.2s
BJI III 12 06 18 40.6 39.17N 142.32E 36 5.6b,5.2
MOS III 12 06 18 40.6–1.1 39.31N 142.46E 33 5.6b,5.0s
NEIC III 12 06 18 44.6–.41 39.17N 142.33E 54–3 5.5b,5.0s
GCMT III 12 06 18 44.6–.40 39.30N 142.35E 37–1 5.5W,5.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ31.00000°,λ-64.00000°. NP2:ϕ_s229.00000°,δ63.00000°,λ-104.00000°. $M_0$1.06000×10^{17}
IDC Error ellipse: s-maj=10.8km s-min=7.5km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=137.5.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=88.4.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=130.0. Recorded [4 JMA] in Iwate.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c46; s66,c98; Duration: 1ŧ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.82±.10 $M_{\theta\theta}$1.10±.06; $M_{\phi\phi}$0.72±.06; $M_{r\theta}$0.50±.07; $M_{\theta\phi}$0.55±.04; $M_{\phi r}$1.01±.07; Best double couple: NP1:ϕ_s221.00000°,δ62.00000°,λ-101.00000°. NP2:ϕ_s62.00000°,δ30.00000°,λ-71.00000°. Principal axes: T 1.7760,Plg16.0000°,Azm318.0000°; N 0.4230,Plg9.0000°,Azm226.0000°; P -2.1990,Plg71.0000°,Azm106.0000° $M_0$1.98700×10^{17}

(228) Near east coast of eastern Honshu

JMA III 12 06 21 35.2–.10 37.35N 141.31E 29–1 3.8
¶602656072
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 06 23 15.0–.61 39.52N–.04 142.96E–.07 40–6 4.7b 121 2-149
JMA III 12 06 23 11.2–.30 39.54N 142.98E 24 5.4 **¶16425339**
ISCJB III 12 06 23 13.7–.68 39.54N–.03 142.85E–.05 38–6 4.6b
IDC III 12 06 23 15.5–2.0 39.48N 142.86E 44–20 4.4,4.3
NEIC III 12 06 23 16.7–.58 39.52N 142.77E 52–5 4.8b,4.3
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=23.6.
IDC Error ellipse: s-maj=15.2km s-min=13.0km az=109.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=140.0.
(227) Eastern Honshu
JMA III 12 06 23 34.8 36.81N 139.41E 3 2.1
¶600541050
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 12 06 35 59.0–.64 39.63N–.05 143.65E–.04 27–4 4.9b,4.7s 548 2-154
NIED III 12 06 35 00 39.70N 143.80E 14 5.0W,4.7s **¶16476824**
IDC III 12 06 35 54.8–.43 39.53N 143.58E 0 4.6,4.5
BJI III 12 06 35 57.5 39.71N 143.25E 19 5.4b,5.0s
JMA III 12 06 35 57.7–.30 39.70N 143.77E 50 5.0,5.0s
MOS III 12 06 35 58.4–1.0 39.66N 143.58E 33 5.2b,4.3s
ISCJB III 12 06 35 58.8–.15 39.76N–.02 143.45E–.03 27 4.8b,4.7s
NEIC III 12 06 35 60.0–1.2 39.60N 143.45E 28–8 5.0b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ22.00000°,λ24.00000°. NP2:ϕ_s40.00000°,δ81.00000°,λ110.00000°. $M_0$3.07000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=10.8km az=134.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=158.8.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=150.0.
(228) Near east coast of eastern Honshu
JMA III 12 06 39 58.8–.10 36.64N 141.01E 48–1 4.1
¶602656032
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(226) Near west coast of eastern Honshu
JMA III 12 06 40 19.6–.10 37.06N 138.63E 16–1 2.5
¶16308541
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 12 06 40 45.0–.10 36.77N 140.93E 23–2 4.7
NIED III 12 06 40 00 36.80N 140.90E 26 4.4W **¶603049571**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ34.00000°,λ56.00000°. NP2:ϕ_s216.00000°,δ63.00000°,λ111.00000°. $M_0$5.25000×10^{15}
(229) Off east coast of Honshu
ISC III 12 06 40 52.8–.66 37.8N–.10 145.03E–.08 26 4.7b 56 6-149
IDC III 12 06 40 49.3–1.5 37.82N 145.00E 0 4.7,4.6 **¶16425347**
ISCJB III 12 06 40 51.0–.54 37.74N–.09 144.97E–.08 26 4.7b,4.6
NEIC III 12 06 40 51.5–2.8 37.79N 144.98E 16–17 4.9b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=38.0km s-min=16.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=6.7km az=152.5.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=5.3km az=148.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC III 12 06 44 01.0–.67 36.58N–.03 141.01E–.05 42–6 4.7b 200 0-147
NIED III 12 06 44 00 36.60N 141.00E 44 4.7W **¶16308542**
JMA III 12 06 44 00.7–.10 36.60N 141.03E 43–1 4.7
ISCJB III 12 06 44 01.5–.34 36.58N–.02 140.89E–.03 55–2 4.7b
NEIC III 12 06 44 03.0–.60 36.61N 140.77E 55–5 4.7b
IDC III 12 06 44 03.8–1.4 36.54N 140.88E 69–13 4.7,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ6.00000°,λ23.00000°. NP2:ϕ_s50.00000°,δ88.00000°,λ95.00000°. $M_0$1.26000×10^{16}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=13.5.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=4.3km az=140.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=10.8km s-min=7.9km az=77.0.
(228) Near east coast of eastern Honshu
ISC III 12 06 49 10.8–3.1 38.66N–.04 142.60E–.06 24–22 4.6b 129 2-145
NIED III 12 06 49 00 38.60N 142.70E 17 4.5W **¶600541106**
IDC III 12 06 49 06.7–.51 38.68N 142.38E 0 4.4,4.3
JMA III 12 06 49 08.8–.30 38.65N 142.69E 46 4.7,4.3
ISCJB III 12 06 49 09.9–1.4 38.70N–.03 142.51E–.04 26–10 4.5b,4.3
NEIC III 12 06 49 12.5–1.8 38.66N 142.54E 32–13 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ63.00000°,λ-161.00000°. NP2:ϕ_s123.00000°,δ73.00000°,λ-28.00000°. $M_0$7.07000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=12.4km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.8km az=39.8.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=135.0.
(229) Off east coast of Honshu
ISC III 12 06 57 27.8–.46 37.76N–.08 143.92E–.07 35 4.6b 142 5-153
IDC III 12 06 57 22.2–.47 37.68N 143.99E 0 4.6,4.5 **¶16425349**
NEIC III 12 06 57 24.7–2.7 37.70N 143.93E 15–16 4.7b,4.5
ISCJB III 12 06 57 25.8–.28 37.66N–.06 143.94E–.05 33 4.6b,4.5
ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Chiba and Kanagawa.
ISCJB Event type fe.
(230) Near south coast of eastern Honshu
JMA III 12 06 57 37.0–.20 35.53N 139.92E 25–3 3.9
¶602656013
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 07 04 17.2–.62 36.34N–.09 141.65E–.08 26 4.3b 29 1-147
NIED III 12 07 04 00 36.00N 141.00E 5 4.3W **¶16425351**
IDC III 12 07 04 13.1–.70 36.40N 141.78E 0 4.4,4.2
ISCJB III 12 07 04 15.4–.44 36.33N–.07 141.67E–.06 26 4.3b,4.2
NEIC III 12 07 04 18.4–.49 36.32N 141.70E 35 4.5b,4.2
JMA III 12 07 04 19.5–.10 36.01N 141.05E 17–2 4.1,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ28.00000°,λ-68.00000°. NP2:ϕ_s178.00000°,δ64.00000°,λ-101.00000°. $M_0$3.21000×10^{15}
IDC Error ellipse: s-maj=21.9km s-min=18.5km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.0km az=1.5.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.7km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 07 07 30.7–.46 38.30N–.04 142.26E–.05 29–2 4.9b,4.2s 566 1-155
NIED III 12 07 07 00 38.30N 142.20E 20 4.9W,4.2s **¶16308546**
ISCJB III 12 07 07 29.8–1.1 38.32N–.03 142.18E–.03 30–8 4.9b,4.3s
JMA III 12 07 07 29.8–.20 38.26N 142.25E 30 4.9,4.3s
MOS III 12 07 07 29.7–.87 38.36N 142.24E 34 5.2b,4.3s
IDC III 12 07 07 30.9–.47 38.34N 142.22E 29–2 4.7,4.7
NEIC III 12 07 07 33.0–.49 38.35N 142.12E 42–4 4.9b,4.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ35.00000°,λ-94.00000°. NP2:ϕ_s270.00000°,δ55.00000°,λ-87.00000°. $M_0$2.48000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=153.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=106.5.
IDC Error ellipse: s-maj=11.0km s-min=9.3km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=139.0. Felt at Sodegaura, Yokohama and Yokosuka.

(228) Near east coast of eastern Honshu
JMA III 12 07 10 57.8–.10 37.43N 141.43E 36–1 3.7
¶602655986
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 07 13 35.5–.62 37.45N–.04 142.17E–.04 33–3 5.0b,4.5s 706 1-154
NIED III 12 07 13 00 37.40N 142.00E 23 4.8W,4.5s **¶17194283**
BJI III 12 07 13 28.9 37.32N 142.40E 20 5.1b,5.1b
IDC III 12 07 13 29.9–.42 37.35N 142.16E 0 4.9,4.9
MOS III 12 07 13 33.9–.83 37.47N 142.05E 33 5.2b,4.9
ISCJB III 12 07 13 33.4–.82 37.41N–.03 142.07E–.02 27–5 5.0b,4.6s
JMA III 12 07 13 34.4–.20 37.38N 141.99E 13–2 4.8,4.6s
NEIC III 12 07 13 37.5–.43 37.42N 142.01E 47–3 5.0b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ44.00000°,λ-76.00000°. NP2:ϕ_s25.00000°,δ48.00000°,λ-103.00000°. $M_0$1.76000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=9.9km az=126.0.
MOS Error ellipse: s-maj=8.9km s-min=6.5km az=98.6.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=159.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.4km az=142.0.
(228) Near east coast of eastern Honshu
JMA III 12 07 18 27.1–.10 37.13N 141.20E 24–1 3.4
¶603049578
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 07 20 58.8–.37 35.98N–.04 141.41E–.05 26 4.9b 229 1-147
NIED III 12 07 20 00 36.00N 141.50E 29 4.7W **¶600541143**
MOS III 12 07 20 54.4–.78 35.59N 141.69E 33 5.1b
ISCJB III 12 07 20 57.9–.21 36.02N–.04 141.40E–.03 26 4.8b
NEIC III 12 07 20 58.9–1.7 35.96N 141.33E 24–12 4.9b
JMA III 12 07 20 58.5–.10 36.04N 141.47E 29–2 4.6
IDC III 12 07 20 59.4–3.7 35.88N 141.37E 33–28 4.8,4.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ38.00000°,λ-62.00000°. NP2:ϕ_s71.00000°,δ57.00000°,λ-110.00000°. $M_0$1.27000×10^{16}
MOS Error ellipse: s-maj=16.2km s-min=9.0km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=164.7.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=147.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=12.7km az=134.0.
(229) Off east coast of Honshu
ISC III 12 07 25 43.3–1.0 36.91N–.08 142.33E–.07 9 4.1b 14 1-146
NIED III 12 07 25 00 37.00N 142.30E 47 4.5W **¶16461440**
ISCJB III 12 07 25 42.3–.85 36.86N–.06 142.40E–.07 9 4.0b
IDC III 12 07 25 42.6–1.2 36.84N 142.58E 0 4.6,4.4
JMA III 12 07 25 44.8–.20 36.99N 142.34E 19 4.3,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ21.00000°,λ-166.00000°. NP2:ϕ_s359.00000°,δ85.00000°,λ-69.00000°. $M_0$5.89000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=27.7.
IDC Error ellipse: s-maj=62.0km s-min=23.2km az=150.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 07 30 16.8–.40 35.92N–.05 141.40E–.05 26 4.6b 120 0-147
NIED III 12 07 30 00 36.00N 141.50E 26 4.3W **¶17194294**
ISCJB III 12 07 30 15.5–.22 35.94N–.03 141.40E–.04 26 4.5b
JMA III 12 07 30 16.6–.20 36.02N 141.48E 33–2 4.1
IDC III 12 07 30 18.3–2.1 35.90N 141.32E 40–19 4.4,4.3
NEIC III 12 07 30 19.4–.61 35.88N 141.31E 47–6 4.6b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ31.00000°,λ-102.00000°. NP2:ϕ_s96.00000°,δ60.00000°,λ-83.00000°. $M_0$3.60000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.0km az=163.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=12.0km az=94.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=176.0.
(229) Off east coast of Honshu
ISC III 12 07 35 36.6–.36 37.34N–.05 142.64E–.06 21 4.9b 192 1-146
NIED III 12 07 35 00 37.40N 142.50E 8 4.5W **¶602655967**
JMA III 12 07 35 34.7–.40 37.40N 142.50E 7 4.8
ISCJB III 12 07 35 35.3–.21 37.39N–.03 142.59E–.04 21 4.8b
MOS III 12 07 35 36.3–.72 37.38N 142.64E 33 5.1b
IDC III 12 07 35 38.7–2.9 37.39N 142.59E 38–24 4.4,4.4
NEIC III 12 07 35 39.3–.52 37.38N 142.58E 39–4 4.4,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ43.00000°,λ-102.00000°. NP2:ϕ_s269.00000°,δ48.00000°,λ-79.00000°. $M_0$5.71000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.3km az=142.4.
MOS Error ellipse: s-maj=9.5km s-min=6.9km az=94.1.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=132.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
JMA III 12 07 35 58.1 36.97N 140.86E 13–1 3.4
¶603049579
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 07 36 56.6–.53 36.91N–.04 141.66E–.05 33–3 4.8b 172 1-160
NIED III 12 07 36 00 37.00N 141.60E 32 4.5W **¶16425360**
MOS III 12 07 36 54.2–1.0 36.82N 141.66E 33 5.2b
JMA III 12 07 36 55.9–.20 36.96N 141.62E 24–2 4.7
IDC III 12 07 36 56.7–.57 36.93N 141.63E 37–3 4.4,4.4
ISCJB III 12 07 36 56.5–.55 36.89N–.03 141.63E–.04 48–5 4.8b,4.1s
NEIC III 12 07 36 58.9–.55 36.89N 141.56E 54–5 4.8b,4.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ49.00000°,λ-33.00000°. NP2:ϕ_s294.00000°,δ66.00000°,λ-134.00000°. $M_0$7.13000×10^{15}
MOS Error ellipse: s-maj=10.0km s-min=6.9km az=88.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=11.3km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=12.7.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=126.0.
(226) Near west coast of eastern Honshu
JMA III 12 07 46 59.1 37.02N 138.67E 11–2 2.7
¶603049580
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 12 07 51 56.6–.20 36.87N 141.16E 43–2 4.0
¶602655960
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 07 53 04.5–.40 36.01N 141.23E 32 3.8
¶16476845
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 07 54 08.2–.50 35.95N–.03 141.60E–.04 31–3 5.0b,4.6s 657 1-154
NIED III 12 07 54 00 36.10N 141.60E 26 5.1W,4.6s **¶17194301**
IDC III 12 07 54 03.4–.40 35.96N 141.59E 0 4.8,4.7
BJI III 12 07 54 04.8 35.90N 141.50E 10 5.1b,4.9s
JMA III 12 07 54 05.8–.30 36.05N 141.64E 5–4 5.2,4.9s
MOS III 12 07 54 06.9–.99 35.98N 141.47E 31 5.2b,4.6s
ISCJB III 12 07 54 08.6–.48 35.92N–.03 141.49E–.03 44–4 5.0b,4.7s
NEIC III 12 07 54 09.4–.52 35.91N 141.45E 37–5 5.1b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ46.00000°,λ-61.00000°. NP2:ϕ_s236.00000°,δ51.00000°,λ-116.00000°. $M_0$4.34000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=9.7km az=117.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=4.9km az=112.7.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=163.4.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=145.0.
(228) Near east coast of eastern Honshu
JMA III 12 07 55 46.6–.30 37.69N 141.58E 46–4 4.3 ¶603049582
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(162) South Island
WEL III 12 07 58 38.1–.07 43.58S 172.73E 8–0 3.3L ¶600711299
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(546) Austria
ISC III 12 08 01 19.3–1.0 47.41N–.01 12.44E–.01 8–8 431 0-9
ISCJB III 12 08 01 17.5–.18 47.450N–.01 12.41E–.01 2–1 **¶16330866**
CSEM III 12 08 01 19.4–.08 47.41N 12.44E 5 3.7L
LDG III 12 08 01 19.4–.10 47.41N 12.50E 2 3.4L
BGR III 12 08 01 20.8–.29 47.38N 12.50E 10 3.4L
VIE III 12 08 01 20.4–.25 47.35N 12.44E 6–2 3.5L,2.8b
ROM III 12 08 01 21.6–.41 47.34N 12.45E 10 3.2L,2.8b
PRU III 12 08 01 21.4 47.42N 12.53E 13 3.2L,2.8b
GEN III 12 08 01 23.4 47.45N 12.47E 27 3.6L,2.8b
STR III 12 08 01 25.6–.23 47.44N 12.07E 10 3.3L,2.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.6km az=27.4.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=43.0.
LDG Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=20.0.
BGR Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=161.0.
VIE Event type fe. Error ellipse: s-maj=2.1km s-min=1.0km az=18.0. felt 4-5 ems98 at Jochberg / Tyrol.
ROM Event type ke. Error ellipse: s-maj=6.1km s-min=2.2km az=22.0.
PRU Kitzbueheler Alps.
STR Event type ke.
(228) Near east coast of eastern Honshu
JMA III 12 08 02 27.7–.10 37.33N 141.52E 37–2 3.7 ¶602655953
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 08 07 29.1–.65 35.92N–.05 141.43E–.08 23 4.2b 39 1-147
IDC III 12 08 07 23.5–.70 36.29N 142.29E 0 4.1,4.1L **¶17194309**
NEIC III 12 08 07 28.8–.48 36.24N 142.19E 35 4.4b,4.1L
JMA III 12 08 07 33.8–.10 35.78N 141.03E 38–1 2.9,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=15.3km az=81.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.6km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 08 13 41.2–.53 35.69N–.05 141.71E–.06 25 5.0b 43 1-154
NIED III 12 08 13 00 35.90N 141.60E 17 4.9W **¶17194318**
ISCJB III 12 08 13 39.3–.40 35.63N–.04 141.76E–.05 25 4.9b,4.3s
JMA III 12 08 13 42.0–.20 35.87N 141.61E 39–3 4.8,4.3s
IDC III 12 08 13 42.6–4.0 35.66N 141.71E 33–31 4.7,4.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ18.00000°,λ-62.00000°. NP2:ϕ_s263.00000°,δ75.00000°,λ-99.00000°. $M_0$2.41000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.9km az=136.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=10.9km az=90.0.
(228) Near east coast of eastern Honshu
ISC III 12 08 22 02.8–2.1 36.24N–.04 141.64E–.06 8–13 4.5b 118 1-147
NIED III 12 08 22 00 36.30N 141.70E 5 4.4W **¶602656611**
IDC III 12 08 22 01.1–.47 36.22N 141.78E 0 4.4,4.3
NEIC III 12 08 22 03.8–3.0 36.23N 141.73E 12–18 4.6b,4.3
JMA III 12 08 22 04.5–.30 36.27N 141.66E 43 4.4,4.3
ISCJB III 12 08 22 04.7–.97 36.27N–.03 141.59E–.04 27–7 4.4b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ80.00000°,λ-178.00000°. NP2:ϕ_s136.00000°,δ88.00000°,λ-10.00000°. $M_0$3.88000×10^{15}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
(162) South Island
WEL III 12 08 25 56.8–.06 43.58S 172.66E 5–0 3.0L ¶600711300
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(228) Near east coast of eastern Honshu
ISC III 12 08 44 52.9–.54 39.22N–.05 142.59E–.08 29 4.6b 66 2-145
IDC III 12 08 44 49.4–.77 39.50N 142.56E 0 4.4,4.3b **¶16425368**
ISCJB III 12 08 44 50.9–.39 39.25N–.04 142.64E–.07 29 4.6b,4.3b
JMA III 12 08 44 52.8–.20 39.24N 142.50E 36 4.9,4.3b
NEIC III 12 08 44 55.4–1.0 39.33N 142.72E 54–9 4.9,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=15.0km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.2km az=133.0.
(228) Near east coast of eastern Honshu
ISC III 12 08 52 48.3–.69 37.18N–.06 143.69E–.05 29–4 4.9b,4.4s 641 2-156
IDC III 12 08 52 43.0–.44 37.07N 143.73E 0 4.9,4.8 **¶16309760**
BJI III 12 08 52 46.9 37.20N 143.60E 33 5.2b,4.8b
ISCJB III 12 08 52 46.9–.16 37.18N–.04 143.64E–.03 28 4.9b,4.4s
MOS III 12 08 52 47.8–.96 37.38N 143.58E 29 5.1b,4.4s
NEIC III 12 08 52 47.8–1.2 37.18N 143.62E 23–8 5.0b,4.4s
JMA III 12 08 52 56.3–.10 36.25N 141.12E 40–3 4.2,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=2.8km az=169.3.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=95.9.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.0km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 09 02 55.1–1.6 39.71N–.07 142.54E–.08 65–12 4.7b 97 2-116
NIED III 12 09 02 00 39.70N 142.70E 23 4.5W **¶602656528**
JMA III 12 09 02 49.1–.40 39.70N 142.69E 14–4 4.8
NEIC III 12 09 02 51.5–.54 39.64N 142.68E 35 4.5b
ISCJB III 12 09 02 51.7–.91 39.68N–.04 142.65E–.07 54–6 4.6b
IDC III 12 09 02 54.6–2.6 39.68N 142.58E 63–23 4.6,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ19.00000°,λ74.00000°. NP2:ϕ_s10.00000°,δ72.00000°,λ95.00000°. $M_0$6.03000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=26.2.
IDC Error ellipse: s-maj=18.1km s-min=13.9km az=114.0.
(228) Near east coast of eastern Honshu
ISC III 12 09 07 06.8–1.5 39.13N–.09 142.8E–.20 27 4.3b 8 3-63
ISCJB III 12 09 07 04.4–1.1 39.12N–.07 142.8E–.20 27 4.2b **¶17194343**
JMA III 12 09 07 07.7–.30 39.23N 142.46E 7–4 4.4
IDC III 12 09 07 09.1–4.5 39.17N 142.61E 45–43 4.2,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=22.5km s-min=8.9km az=167.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=46.0km s-min=21.9km az=85.0.
(226) Near west coast of eastern Honshu
JMA III 12 09 20 45.8–.20 40.30N 139.15E 10–3 4.4 ¶16309764
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(97) Near coast of Venezuela
ISC III 12 09 26 39.4–.86 12.06N–.05 69.89W–.04 28–5 91 0-22
NEIC III 12 09 26 40.8 12.08N 69.89W 17 **¶16404898**
FUNV III 12 09 26 40.8 12.08N 69.89W 17 4.1W
ISC Event type fe.
NEIC Event type fe. Felt at Punto Fijo. Also felt at Oranjestad, Aruba. After CAR.
(228) Near east coast of eastern Honshu
JMA III 12 09 27 26.4–.10 37.28N 141.10E 21–1 3.7 ¶602656502
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 09 35 02.7–.54 35.45N–.04 141.11E–.07 33 4.3b 48 0-118
NIED III 12 09 35 00 35.50N 141.00E 32 4.3W **¶602656493**
ISCJB III 12 09 35 01.1–.43 35.51N–.03 141.20E–.06 33 4.2b
NEIC III 12 09 35 02.5–1.8 35.43N 141.08E 31–13 4.3b
JMA III 12 09 35 03.4–.20 35.54N 141.02E 35–2 3.8
IDC III 12 09 35 04.2–1.9 35.43N 141.07E 45–19 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ11.00000°,λ110.00000°. NP2:ϕ_s27.00000°,δ80.00000°,λ86.00000°. $M_0$2.72000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.9km az=3.1.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.3km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=12.3km az=83.0.
(228) Near east coast of eastern Honshu
ISC III 12 09 37 06.2–.92 38.9N–.20 142.3E–.10 27 3.8b 11 2-88
IDC III 12 09 37 02.2–.98 38.88N 142.32E 0 4.0,3.7 **¶16476889**
ISCJB III 12 09 37 05.8–.81 39.1N–.10 142.5E–.10 27 3.7b,3.7
JMA III 12 09 37 07.7–.20 38.95N 142.41E 50 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.7km s-min=24.4km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=22.3km s-min=8.2km az=149.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 09 37 36.6–.68 38.42N–.10 142.9E–.10 23 4.3b 23 2-88
IDC III 12 09 37 33.6–.57 38.44N 142.94E 0 4.3,4.2 **¶17194350**
ISCJB III 12 09 37 34.8–.43 38.40N–.06 142.76E–.10 23 4.2b,4.2
NEIC III 12 09 37 38.8–.46 38.49N 142.75E 35 4.6b,4.2
JMA III 12 09 37 45.9–.20 37.76N 141.89E 14–2 4.3,4.2
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=12.8km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=6.2km az=34.3.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=7.3km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
JMA III 12 09 39 52.0–.70 37.40N 142.26E 11 4.4 ¶603049595
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 09 40 44.1–.53 38.86N–.04 142.95E–.04 32–3 5.0b,4.7s 490 2-154
NIED III 12 09 40 00 38.50N 143.50E 5 5.1W,4.7s **¶17194352**
JMA III 12 09 40 35.5–.60 38.45N 143.55E 22 5.4,4.7s
BJI III 12 09 40 40.7 38.91N 142.73E 16 5.4b,5.0s
ISCJB III 12 09 40 41.0–.96 38.88N–.03 142.84E–.03 18–6 5.0b,4.7s
MOS III 12 09 40 43.2–.91 38.94N 142.83E 36 5.2b,4.4s
GCMT III 12 09 40 44.5–.40 38.84N 142.72E 16 5.2W,4.4s
NEIC III 12 09 40 44.5–1.0 38.86N 142.81E 32–7 5.1b,4.4s
IDC III 12 09 40 45.2–1.9 38.81N 142.95E 43–17 4.9,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ32.00000°,λ-77.00000°. NP2:ϕ_s131.00000°,δ59.00000°,λ-98.00000°. $M_0$4.78000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=145.8.
MOS Error ellipse: s-maj=6.9km s-min=4.9km az=99.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c20; s56,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.21±.35 $M_{\theta\theta}$1.80±.29; $M_{\phi\phi}$3.42±.26; $M_{r\theta}$-1.58±.99; $M_{\theta\phi}$-3.27±.22; $M_{\phi r}$3.47±1.04; Best double couple: NP1:ϕ_s150.00000°,δ62.00000°,λ-81.00000°. NP2:ϕ_s312.00000°,δ29.00000°,λ-106.00000°. Principal axes: T 7.1040,Plg17.0000°,Azm234.0000°; N -0.6390,Plg8.0000°,Azm326.0000°; P -6.4550,Plg71.0000°,Azm80.0000° $M_0$6.77900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=141.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=12.3km s-min=10.5km az=101.0.
(228) Near east coast of eastern Honshu
ISC III 12 09 46 08.4–2.2 37.61N–.08 141.6E–.10 44–19 4.0b 26 1-90
ISCJB III 12 09 46 08.6–1.2 37.58N–.07 141.4E–.10 61–9 4.0b **¶17194354**
JMA III 12 09 46 09.7–.10 37.61N 141.40E 49–1 3.7
IDC III 12 09 46 11.2–3.6 37.60N 141.34E 68–31 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.8km s-min=10.9km az=163.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.5km s-min=19.2km az=78.0.
(229) Off east coast of Honshu
ISC III 12 09 47 56.2–.68 37.93N–.07 142.39E–.05 25–3 4.8b 158 1-146
NIED III 12 09 47 00 37.80N 142.40E 20 4.7W **¶16309767**
JMA III 12 09 47 54.1–.20 37.84N 142.45E 23 4.8
ISCJB III 12 09 47 55.7–1.7 38.03N–.05 142.36E–.05 28–11 4.7b
NEIC III 12 09 47 59.8–.51 38.16N 142.29E 42–4 4.8b
IDC III 12 09 47 59.5–2.2 38.08N 142.38E 46–19 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ33.00000°,λ-78.00000°. NP2:ϕ_s8.00000°,δ58.00000°,λ-98.00000°. $M_0$1.26000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.9km az=155.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=3.3km az=157.0.
IDC Error ellipse: s-maj=24.1km s-min=11.9km az=162.0.
(228) Near east coast of eastern Honshu
ISC III 12 09 55 03.8–1.0 37.26N–.05 141.28E–.08 52–8 4.4b 49 0-90
NIED III 12 09 55 00 37.30N 141.30E 53 4.3W **¶16425373**
ISCJB III 12 09 55 02.7–.67 37.26N–.04 141.34E–.07 59–4 4.3b
JMA III 12 09 55 04.5–.10 37.31N 141.25E 47–1 4.1
NEIC III 12 09 55 05.7–1.1 37.23N 141.25E 70–8 4.4b
IDC III 12 09 55 05.8–1.9 37.22N 141.24E 71–18 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ26.00000°,λ97.00000°. NP2:ϕ_s31.00000°,δ65.00000°,λ87.00000°. $M_0$2.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.3km az=18.4.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.2km az=130.0.
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=83.0.
(228) Near east coast of eastern Honshu
ISC III 12 10 00 25.4–.51 35.97N–.04 141.91E–.04 26–3 5.0b,4.7s 451 1-154
NIED III 12 10 00 00 36.00N 142.00E 17 4.9W,4.7s **¶600541322**
IDC III 12 10 00 21.2–.44 35.92N 141.91E 0 4.7,4.6
BJI III 12 10 00 22.1 36.00N 141.80E 20 5.3b,4.8b
ISCJB III 12 10 00 23.9–.93 35.95N–.02 141.82E–.02 24–6 4.9b,4.7s
JMA III 12 10 00 23.6–.20 36.04N 141.98E 36–4 5.0,4.7s
MOS III 12 10 00 27.6–.82 36.34N 141.74E 39 5.1b,4.7s
NEIC III 12 10 00 27.2–.12 35.94N 141.77E 35 5.0b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ49.00000°,λ-156.00000°. NP2:ϕ_s126.00000°,δ72.00000°,λ-44.00000°. $M_0$2.45000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.5km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=151.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=107.7.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=149.0.
(228) Near east coast of eastern Honshu
JMA III 12 10 02 09.7–.10 37.28N 141.74E 35–2 4.1 ¶602656449
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 10 05 29.2–1.0 38.32N–.09 142.1E–.10 41 4.1b 18 1-146
IDC III 12 10 05 23.5–1.0 38.39N 142.10E 0 4.2,4.1 **¶16476899**
ISCJB III 12 10 05 27.0–.89 38.33N–.08 142.3E–.10 41 4.1b,4.1

JMA III 12 10 05 29.3–.30 38.30N 142.15E 35 4.3,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=34.7km s-min=19.0km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=9.3km az=30.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.

(227) Eastern Honshu

JMA III 12 10 08 01.7 36.96N 138.55E 5–2 3.6
NIED III 12 10 08 00 37.00N 138.60E 8 4.4W **¶600541330**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ50.00000°,λ146.00000°. NP2:ϕ_s25.00000°,δ65.00000°,λ46.00000°. M_o4.34000×10^{15}

(228) Near east coast of eastern Honshu

JMA III 12 10 09 33.4 37.32N 141.11E 27–1 3.7
¶602655931
JMA Event type fe.

(229) Off east coast of Honshu

ISC III 12 10 17 26.7–.47 37.84N–.05 142.70E–.05 14 4.6s,4.2b 73 2-145
NIED III 12 10 17 00 37.90N 142.30E 32 4.5W,4.2b **¶16425376**
IDC III 12 10 17 24.9–.49 37.89N 142.79E 0 4.5,4.5s
ISCJB III 12 10 17 25.0–.34 37.88N–.04 142.75E–.04 14 4.6s,4.2b
NEIC III 12 10 17 29.9–.32 37.90N 142.73E 35 4.4b,4.2b
JMA III 12 10 17 29.1–.30 37.89N 142.33E 0 4.8,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ84.00000°,λ6.00000°. NP2:ϕ_s152.00000°,δ84.00000°,λ174.00000°. M_o6.50000×10^{15}
IDC Error ellipse: s-maj=13.2km s-min=10.7km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=141.3.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=126.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(229) Off east coast of Honshu

ISC III 12 10 20 21.8–.28 37.20N–.03 143.49E–.04 28–1 5.4b,5.3s 1046 2-153
ISCJB III 12 10 20 17.6–1.0 37.19N–.02 143.49E–.02 9–6 5.2s,5.2b **¶17194366**
IDC III 12 10 20 17.1–.33 37.10N 143.59E 0 4.9,4.9
JMA III 12 10 20 20.9–.50 37.02N 143.14E 0 5.3,4.9
NEIC III 12 10 20 21.2–1.1 37.15N 143.47E 22–7 5.5b,4.9
GCMT III 12 10 20 21.2–.20 37.17N 143.62E 12 5.3W,4.9
MOS III 12 10 20 22.1–.94 37.50N 143.42E 31 5.5b,5.2s
BJI III 12 10 20 22.1 37.37N 143.10E 26 5.7b,5.3s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.3km az=161.0.
IDC Error ellipse: s-maj=9.8km s-min=8.1km az=104.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c39; s91,c177; Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.15±.03 $M_{\theta\theta}$0.59±.03; $M_{\phi\phi}$0.55±.02; $M_{r\theta}$-0.21±.10; $M_{\theta\phi}$0.46±.02; $M_{\phi r}$-0.03±.10; Best double couple: NP1:ϕ_s52.00000°,δ50.00000°,λ-83.00000°. NP2:ϕ_s221.00000°,δ41.00000°,λ-98.00000°. Principal axes:
T 1.0430,Plg4.0000°,Azm137.0000°; N 0.1280,Plg6.0000°,Azm227.0000°
; P -1.1750,Plg83.0000°,Azm8.0000° M_o1.10900×10^{17}
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=103.0.

(228) Near east coast of eastern Honshu

JMA III 12 10 32 41.1–.30 39.45N 142.07E 34–4 3.7
¶602655898
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(229) Off east coast of Honshu

ISC III 12 10 34 47.6–.52 37.59N–.04 144.53E–.04 29–3 5.2b,4.7s 794 3-153
NIED III 12 10 34 00 37.50N 144.40E 23 5.1W,4.7s **¶602655895**
IDC III 12 10 34 42.5–.39 37.42N 144.61E 0 4.9,4.8L
ISCJB III 12 10 34 46.4–.14 37.69N–.03 144.43E–.02 27 5.1b,4.8s
GCMT III 12 10 34 47.4–.40 37.64N 144.44E 28–1 5.2W,4.8s
JMA III 12 10 34 47.0–.60 37.53N 144.38E 53 5.1,4.8s
NEIC III 12 10 34 47.4–.47 37.50N 144.45E 27–3 5.3b,4.8s
MOS III 12 10 34 47.6–.83 37.72N 144.44E 33 5.4b,4.8s
BJI III 12 10 34 48.6 37.81N 144.07E 25 5.4b,5.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ71.00000°,λ-170.00000°. NP2:ϕ_s74.00000°,δ81.00000°,λ-19.00000°. M_o4.40000×10^{16}
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.1km az=172.5.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s66,c98; Duration: 1$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.52±.07 $M_{\theta\theta}$-0.02±.04; $M_{\phi\phi}$0.54±.04; $M_{r\theta}$-0.21±.08; $M_{\theta\phi}$0.53±.02; $M_{\phi r}$0.34±.06; Best double couple: NP1:ϕ_s180.00000°,δ62.00000°,λ-132.00000°. NP2:ϕ_s63.00000°,δ49.00000°,λ-38.00000°. Principal axes:
T 0.8930,Plg8.0000°,Azm299.0000°; N -0.0780,Plg36.0000°,Azm203.0000°
; P -0.8140,Plg53.0000°,Azm39.0000° M_o0.85300×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=159.0.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=105.5.

(228) Near east coast of eastern Honshu

ISC III 12 10 39 10.9–.66 36.70N–.04 141.92E–.04 28–4 5.0b,4.8s 759 1-154
NIED III 12 10 39 00 36.70N 141.90E 29 4.7W,4.8s **¶17194375**
BJI III 12 10 39 06.5 36.59N 142.31E 31 5.5b,4.9b
JMA III 12 10 39 10.5–.30 36.72N 141.87E 22–3 4.9,4.9b
ISCJB III 12 10 39 11.5–.46 36.68N–.02 141.81E–.03 39–4 4.9b,4.8s
MOS III 12 10 39 11.3–.95 36.92N 141.84E 37 5.3b,4.8s
IDC III 12 10 39 12.9–1.9 36.71N 141.82E 41–17 4.8,4.7
NEIC III 12 10 39 12.5–.11 36.70N 141.76E 35 5.0b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ47.00000°,λ-61.00000°. NP2:ϕ_s179.00000°,δ50.00000°,λ-117.00000°. M_o1.38000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=163.7.
MOS Error ellipse: s-maj=8.1km s-min=5.9km az=84.4.
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=100.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=150.0.

(228) Near east coast of eastern Honshu

ISC III 12 10 53 30.9–.31 39.07N–.02 142.40E–.03 30–1 5.9b,5.5s 1902 2-161
NIED III 12 10 53 00 39.00N 142.50E 32 5.7W,5.5s **¶16309776**
ISCJB III 12 10 53 28.6–.61 39.04N–.01 142.37E–.01 22–4 5.8b,5.5s
BJI III 12 10 53 28.5 38.92N 142.26E 28 5.7,5.7b
JMA III 12 10 53 28.4–.20 39.00N 142.54E 20–4 5.8,5.7b
MOS III 12 10 53 29.5–.89 39.10N 142.41E 32 6.1b,5.4s
NEIC III 12 10 53 30.8–.07 39.05N 142.28E 27 6.0b,5.7W
GCMT III 12 10 53 30.8–.20 39.04N 142.28E 36–0 5.7W,5.7W
IDC III 12 10 53 31.4–.37 39.04N 142.34E 33–2 5.5,5.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ20.00000°,λ-107.00000°. NP2:ϕ_s165.00000°,δ71.00000°,λ-84.00000°. M_o3.41000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=96.8.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=139.0. Recorded [4 JMA] in Iwate and Miyagi. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.30 $M_{\theta\theta}$1.32 $M_{\phi\phi}$1.98 $M_{r\theta}$-0.43 $M_{\theta\phi}$-0.17 $M_{\phi r}$2.75 Best double couple: NP1:ϕ_s347.00000°,δ22.00000°,λ-92.00000°. NP2:ϕ_s170.00000°,δ68.00000°,λ-89.00000°. Principal axes:
T 3.2100,Plg23.0000°,Azm259.0000°; N 1.2800,Plg1.0000°,Azm350.0000°
; P -4.4900,Plg67.0000°,Azm82.0000° M_o4.40000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c134; s114,c201; Duration: 1$\dot{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.10±.09 $M_{\theta\theta}$1.27±.06; $M_{\phi\phi}$1.83±.06; $M_{r\theta}$-0.41±.07; $M_{\theta\phi}$-1.15±.04; $M_{\phi r}$3.23±.09; Best double couple: NP1:ϕ_s163.00000°,δ69.00000°,λ-78.00000°. NP2:ϕ_s311.00000°,δ24.00000°,λ-120.00000°. Principal axes:
T 3.9740,Plg23.0000°,Azm243.0000°; N 0.7270,Plg12.0000°,Azm339.0000°
; P -4.7010,Plg63.0000°,Azm93.0000° M_o4.33800×10^{17}
IDC Error ellipse: s-maj=7.6km s-min=5.7km az=80.0.

(228) Near east coast of eastern Honshu

JMA III 12 10 59 50.4–.50 39.17N 142.46E 28 4.0
¶602655867
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.

(229) Off east coast of Honshu

ISC III 12 11 05 02.5–.90 39.38N–.08 143.07E–.08 18 4.4b 36 2-73
ISCJB III 12 11 05 00.2–.61 39.33N–.05 143.15E–.06 18 4.4b **¶17194379**
JMA III 12 11 05 01.6–.30 39.37N 143.17E 34 4.7
NEIC III 12 11 05 06.9–1.0 39.46N 143.12E 53–7 4.0b
IDC III 12 11 05 08.3–2.6 39.43N 143.02E 66–23 4.4,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.5km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=7.2km az=131.0.
IDC Error ellipse: s-maj=31.7km s-min=15.9km az=161.0.

(228) Near east coast of eastern Honshu

JMA III 12 11 06 47.9–.10 37.31N 141.35E 42–1 4.0
¶602655835
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 12 11 11 56.3–.10 37.15N 141.31E 24–1 4.0
¶602655829
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 12 11 16 50.8–.30 38.70N 142.23E 50 3.6
¶602655549
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 12 11 20 14.8–.55 38.65N–.05 142.54E–.06 20–3 4.7b 198 2-144
IDC III 12 11 20 11.7–.46 38.71N 142.48E 0 4.5,4.5b **¶17194390**
JMA III 12 11 20 14.2–.20 38.65N 142.53E 20 4.6,4.5b
ISCJB III 12 11 20 14.5–1.3 38.66N–.03 142.51E–.04 27–9 4.7b,4.5b
NEIC III 12 11 20 16.4–1.4 38.72N 142.43E 28–10 4.9b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=135.7.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=140.0.

(228) Near east coast of eastern Honshu

JMA III 12 11 24 04.7–.10 38.50N 141.72E 43 3.8
¶602655529
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 12 11 31 27.3–.55 37.72N–.06 141.99E–.06 24 4.2b 48 1-146
ISCJB III 12 11 31 24.9–.42 37.69N–.04 142.15E–.05 24 4.2b **¶602655504**
JMA III 12 11 31 27.8–.20 37.71N 141.99E 28 4.2
NEIC III 12 11 31 28.8–.71 37.72N 142.02E 36–6 4.5b
IDC III 12 11 31 29.1–2.7 37.71N 142.02E 38–23 4.1,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=43.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.7km az=120.0.
IDC Error ellipse: s-maj=17.9km s-min=13.0km az=96.0.

(228) Near east coast of eastern Honshu

JMA III 12 11 32 45.4–.10 37.25N 141.49E 36–2 3.7
¶600541433
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC III 12 11 39 05.2–.73 37.56N–.06 142.76E–.07 28–4 4.6b 138 2-145
ISCJB III 12 11 39 02.8–1.6 37.61N–.04 142.75E–.05 19–11 4.6b **¶16310807**
JMA III 12 11 39 02.7–.40 37.50N 142.68E 6 4.5
NEIC III 12 11 39 06.0–1.6 37.64N 142.74E 31–11 4.8b
IDC III 12 11 39 06.3–2.9 37.55N 142.77E 36–23 4.5,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=141.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.3km az=134.0.
IDC Error ellipse: s-maj=13.7km s-min=11.3km az=117.0.

(228) Near east coast of eastern Honshu

ISC III 12 11 46 01.5–.34 35.77N–.03 141.66E–.03 19–1 5.5b,5.4s 1098 1-154
ISCJB III 12 11 45 58.3–.79 35.72N–.02 141.71E–.02 10–4 5.4b,5.3s **¶17194398**
IDC III 12 11 45 58.2–.31 35.78N 141.79E 0 5.2L,5.1
NEIC III 12 11 45 60.0–.09 35.74N 141.68E 10 5.6b,5.1
GCMT III 12 11 46 00.0–.40 35.83N 141.86E 12 5.3W,5.1
NIED III 12 11 46 00 35.90N 141.90E 17 5.3W,5.1
BJI III 12 11 46 00.9 35.75N 141.39E 16 5.4s,5.3b
JMA III 12 11 46 00.0–.20 35.88N 141.86E 26–3 5.5,5.3b
MOS III 12 11 46 01.5–.87 35.75N 141.75E 34 5.7b,5.2s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=157.0.
IDC Error ellipse: s-maj=9.9km s-min=8.8km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=143.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c22; s61,c87; Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.21±.03 $M_{\theta\theta}$0.04±.02; $M_{\phi\phi}$-0.25±.02; $M_{r\theta}$0.81±.06; $M_{\theta\phi}$-0.24±.02; $M_{\phi r}$-0.63±.06; Best double couple: NP1:ϕ_s131.00000°,δ89.00000°,λ84.00000°. NP2:ϕ_s34.00000°,δ6.00000°,λ172.00000°. Principal axes:
T 1.2160,Plg45.0000°,Azm35.0000°; N -0.3690,Plg6.0000°,Azm131.0000°
; P -0.8480,Plg44.0000°,Azm227.0000° M_o1.03200×10^{17}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ39.00000°,λ-39.00000°. NP2:ϕ_s141.00000°,δ67.00000°,λ-122.00000°. M_o9.24000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=114.0.

(162) South Island

WEL III 12 11 46 21.5–.07 43.59S 172.63E 7–0 3.8L
NEIC III 12 11 46 21.3 43.58S 172.63E 8 3.8L **¶16310808**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(228) Near east coast of eastern Honshu

JMA III 12 11 47 20.7–.20 37.35N 141.61E 17–3 4.5
¶602655469
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 12 11 51 56.1–.10 37.31N 141.54E 36–2 3.8
¶603049605
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 12 11 58 34.9–.20 35.62N 141.01E 25–1 3.3
¶603049607
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 12 11 59 08.8–1.6 35.57N–.07 141.0E–.10 46–15 4.3b 32 0-148
NIED III 12 11 59 00 35.60N 141.10E 35 4.6W **¶16425391**
JMA III 12 11 59 07.7–.20 35.64N 141.11E 41–1 4.4
ISCJB III 12 11 59 07.1–.78 35.60N–.04 141.12E–.08 49–5 4.3b
IDC III 12 11 59 12.0–3.3 35.51N 140.70E 66–26 4.2,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ9.00000°,λ-40.00000°. NP2:ϕ_s197.00000°,δ84.00000°,λ-97.00000°. M_o9.68000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.1km az=169.8.
IDC Error ellipse: s-maj=39.6km s-min=12.1km az=75.0.

(228) Near east coast of eastern Honshu

ISC III 12 12 01 21.7–.49 36.02N–.05 141.15E–.07 21–4 4.2b 52 0-147
ISCJB III 12 12 01 18.8–1.2 36.20N–.04 141.27E–.05 8–7 4.2b **¶600541444**
JMA III 12 12 01 20.3–.20 36.16N 141.24E 27–3 4.3
IDC III 12 12 01 21.6–.75 35.96N 141.18E 21–3 4.4L,4.1
NEIC III 12 12 01 23.3–.43 36.01N 141.15E 35 4.7b,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.9km az=19.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=16.8km az=12.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.7km az=93.0.

(228) Near east coast of eastern Honshu
ISC III 12 12 04 06.4–1.4 37.33N–.06 141.33E–.07 28–9 4.1b 47 0-152
IDC III 12 12 04 02.1–.62 37.34N 141.23E 0 4.3,4.1 **¶16442298**
ISCJB III 12 12 04 06.2–1.1 37.33N–.05 141.38E–.09 39–9 4.0b,4.1
JMA III 12 12 04 06.0–.10 37.33N 141.35E 27–1 4.2,4.1
NEIC III 12 12 04 08.8–1.0 37.37N 141.29E 46–9 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=16.7km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=8.9km az=17.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=118.0.
(7) Andreanof Islands
ISC III 12 12 06 17.5–.59 51.68N–.08 175.38W–.04 47 4.3b 69 1-152
IDC III 12 12 06 10.9–.63 51.77N 175.41W 0 4.7L,4.7 **¶16442300**
ISCJB III 12 12 06 16.9–.40 51.78N–.06 175.34W–.04 47 4.7s,4.2b
NEIC III 12 12 06 16.6 51.59N 175.26W 26 4.3L,4.2b
ISC Event type fe.
IDC Error ellipse: s-maj=19.9km s-min=12.1km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=3.1km az=167.7.
NEIC Event type fe. Felt on Atka. After AEIC.
(229) Off east coast of Honshu
ISC III 12 12 06 47.5–.54 39.79N–.04 143.18E–.05 10 4.8b 109 2-144
JMA III 12 12 06 44.7–.40 39.73N 143.44E 0 4.7 **¶16310810**
IDC III 12 12 06 45.8–.72 39.72N 143.19E 0 4.6,4.5
ISCJB III 12 12 06 45.5–.39 39.65N–.03 143.36E–.07 10 4.7b,4.5
NEIC III 12 12 06 57.1–1.8 40.04N 142.02E 28–13 4.9b,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=14.4km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.3km az=21.6.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.7km az=151.0.
(228) Near east coast of eastern Honshu
JMA III 12 12 12 19.6–.10 36.78N 140.62E 10–4 3.2
¶603049608
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 12 15 28.7–.77 39.63N–.05 142.77E–.05 20–4 4.8b 132 2-155
NIED III 12 12 15 00 39.60N 142.80E 5 4.8W **¶602655442**
IDC III 12 12 15 24.2–.55 39.34N 142.74E 0 4.7,4.6b
JMA III 12 12 15 26.0–.40 39.57N 142.81E 5–4 4.9,4.6b
ISCJB III 12 12 15 28.7–1.4 39.59N–.03 142.84E–.04 31–9 4.7b,3.8s
NEIC III 12 12 15 30.9–1.8 39.64N 142.61E 32–12 4.9b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ27.00000°,λ-127.00000°. NP2:ϕ_s47.00000°,δ69.00000°,λ-73.00000°. $M_0$1.88000×10^{16}
IDC Error ellipse: s-maj=14.8km s-min=12.9km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.2km az=147.9.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.8km az=145.0.
(229) Off east coast of Honshu
ISC III 12 12 17 22.2–1.8 37.26N–.04 142.34E–.05 2–10 4.7b 118 1-154
NIED III 12 12 17 00 37.20N 142.50E 5 4.9W **¶16442306**
ISCJB III 12 12 17 21.6–1.4 37.24N–.03 142.49E–.03 8–8 4.6b
JMA III 12 12 17 22.9–.30 37.22N 142.48E 18 4.8
IDC III 12 12 17 22.0–.44 37.26N 142.36E 0 4.6,4.6
NEIC III 12 12 17 23.0–2.1 37.25N 142.35E 7–13 4.9b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ16.00000°,λ-46.00000°. NP2:ϕ_s139.00000°,δ78.00000°,λ-101.00000°. $M_0$2.79000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=154.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=128.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.5km az=123.0.
(228) Near east coast of eastern Honshu
ISC III 12 12 18 44.1–.65 37.0N–.10 141.85E–.05 19 4.6b 39 1-152
ISCJB III 12 12 18 41.7–.57 36.83N–.10 141.98E–.04 19 4.5b **¶17194413**
IDC III 12 12 18 41.5–.83 37.21N 141.87E 0 4.7,4.5
JMA III 12 12 18 43.0–.30 36.67N 141.78E 18–3 4.7,4.5
NEIC III 12 12 18 46.8–.49 37.14N 141.73E 35 4.8b,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=4.9km az=4.7.
IDC Error ellipse: s-maj=26.2km s-min=18.7km az=167.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=10.2km az=150.0.
(228) Near east coast of eastern Honshu
JMA III 12 12 29 39.0–.10 36.31N 140.84E 32–3 3.5
¶602655422
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 12 34 33.1–.10 37.23N 141.16E 49–1 3.9
¶602655402
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 12 45 42.2–.20 39.22N 142.39E 13–2 4.0
¶602656135
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 12 50 28.4–.40 37.77N–.05 143.98E–.05 35 5.0b 280 3-153
IDC III 12 12 50 23.1–.52 37.66N 143.92E 0 4.8,4.7 **¶602656120**
JMA III 12 12 50 26.9–.50 37.61N 143.78E 40 4.8,4.7
ISCJB III 12 12 50 27.6–.25 37.80N–.04 143.81E–.03 33 5.4s,4.9b
MOS III 12 12 50 28.3–.92 37.94N 143.81E 34 5.3b,4.9b
NEIC III 12 12 50 29.1–.21 37.75N 143.83E 35 5.1b,4.9b
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=145.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=2.6km az=159.2.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=104.9.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.3km az=155.0.
(228) Near east coast of eastern Honshu
ISC III 12 12 51 54.3–.98 39.25N–.08 143.01E–.09 16 4.5b 26 2-74
IDC III 12 12 51 51.9–1.4 39.14N 143.14E 0 4.6L,4.5 **¶16442330**
ISCJB III 12 12 51 52.5–.62 39.21N–.06 143.16E–.08 16 4.5b,4.5
JMA III 12 12 51 55.5–.20 39.25N 142.91E 21 4.8,4.5
NEIC III 12 12 51 55.9–3.4 39.18N 143.23E 30–24 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=38.1km s-min=20.7km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.7km az=136.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=8.2km az=115.0.
(229) Off east coast of Honshu
ISC III 12 12 53 51.6–.30 37.77N–.03 143.50E–.03 31–1 5.8s,5.8b 1774 2-163
NIED III 12 12 53 00 37.80N 142.80E 32 5.9W,5.8b **¶16310177**
IDC III 12 12 53 46.7–.28 37.71N 143.62E 0 5.5s,5.5
ISCJB III 12 12 53 48.8–.07 37.68N–.02 143.56E–.01 22 5.8s,5.7b
MOS III 12 12 53 49.9–.95 37.75N 143.56E 33 6.1b,5.8s
BJI III 12 12 53 52.1 37.87N 142.89E 19 6.0s,5.9
GCMT III 12 12 53 52.1–.10 37.71N 143.60E 21–0 5.9W,5.9
NEIC III 12 12 53 52.1–.90 37.73N 143.51E 34–6 5.8s,5.8b
JMA III 12 12 53 55.3–.50 37.76N 142.76E 2 5.9,5.8b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ73.00000°,λ177.00000°. NP2:ϕ_s58.00000°,δ88.00000°,λ17.00000°. $M_0$6.68000×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=7.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.5km az=159.8.
MOS Error ellipse: s-maj=6.9km s-min=4.7km az=105.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c201; s135,c280; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.60±.01 $M_{\theta\theta}$-0.43±.01; $M_{\phi\phi}$1.02±.01; $M_{r\theta}$0.19±.02; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$0.41±.02; Best double couple: NP1:ϕ_s209.00000°,δ62.00000°,λ-66.00000°. NP2:ϕ_s346.00000°,δ36.00000°,λ-128.00000°. Principal axes: T 1.1840,Plg14.0000°,Azm282.0000°; N -0.4420,Plg21.0000°,Azm17.0000°
; P -0.7460,Plg64.0000°,Azm161.0000° $M_0$0.96500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=136.0. Felt at Tokyo. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
(233) Near south coast of western Honshu
ISC III 12 13 11 02.0–1.5 33.06N–.05 136.68E–.03 6–9 4.5b 119 1-117
NIED III 12 13 11 00 33.00N 136.70E 5 4.7W **¶16476973**
IDC III 12 13 11 00.8–.49 32.97N 136.60E 0 4.4,4.3
JMA III 12 13 11 02.8–.10 33.02N 136.68E 51–2 4.3,4.3
ISCJB III 12 13 11 02.2–1.1 33.07N–.03 136.63E–.02 15–6 4.4b,4.3
NEIC III 12 13 11 02.7–.29 33.01N 136.62E 10 4.4b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ44.00000°,λ-151.00000°. NP2:ϕ_s248.00000°,δ70.00000°,λ-50.00000°. $M_0$1.20000×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=12.0km az=33.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=173.2.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.4km az=184.0.
(228) Near east coast of eastern Honshu
ISC III 12 13 14 28.0–.62 35.69N–.04 140.95E–.05 33–4 4.8b 202 0-152
IDC III 12 13 14 22.8–.41 35.65N 140.88E 0 4.8,4.7 **¶16461450**
JMA III 12 13 14 27.5–.20 35.74N 141.02E 35–1 4.6,4.7
ISCJB III 12 13 14 28.0–.39 35.70N–.03 140.90E–.04 44–3 4.7b,4.7
NEIC III 12 13 14 29.8–.59 35.75N 140.87E 46–5 4.7b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=11.3km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.5km az=15.4.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=153.0.
(228) Near east coast of eastern Honshu
ISC III 12 13 15 41.2–.37 37.24N–.02 141.30E–.03 34–1 6.1b,6.0s 1953 0-161
NIED III 12 13 15 00 37.20N 141.40E 44 6.2W,6.0s **¶16310815**
BJI III 12 13 15 38.2 37.10N 141.30E 30 6.3b,6.0s
MOS III 12 13 15 39.3–1.2 37.28N 141.46E 33 6.1b,5.9s
NEIC III 12 13 15 41.6–.08 37.25N 141.16E 38 6.1W,6.1W
NEIC III 12 13 15 41.0–.00 37.06N 141.77E 37 6.1W,6.1W
JMA III 12 13 15 41.7–.10 37.20N 141.43E 40–1 6.2,6.1W
ISCJB III 12 13 15 41.8–.27 37.25N–.02 141.30E–.01 50–2 6.0s,6.0b
GCMT III 12 13 15 41.7–.10 37.23N 141.53E 46–0 6.2W,6.0b
IDC III 12 13 15 43.4–1.9 37.24N 141.32E 53–17 5.6s,5.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ23.00000°,λ54.00000°. NP2:ϕ_s43.00000°,δ72.00000°,λ104.00000°. $M_0$1.91000×10^{18}
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=141.0. Felt [II] at Tokyo. Also felt at Ayase, Fussa, Hamura, Hirakata, Maebashi, Misawa, Nagano, Otawara, Sagamihara, Saku, Yokosuka and Zama. Recorded [5L JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}1.15 $M_{\theta\theta}$-0.63 $M_{\phi\phi}$-0.52 $M_{r\theta}$0.46 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.65 Best double couple: NP1:ϕ_s236.00000°,δ30.00000°,λ105.00000°. NP2: ϕ_s39.00000°,δ61.00000°,λ82.00000°. Principal axes: T 1.3900,Plg73.0000°,Azm289.0000° ; N 0.3100,Plg7.0000°,Azm43.0000°; P -1.6900,Plg15.0000°,Azm135.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{18}Nm; M_{rr}1.58 $M_{\theta\theta}$-0.63 $M_{\phi\phi}$-0.94 $M_{r\theta}$0.81 $M_{\theta\phi}$-0.40 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s33.00000° ,δ68.00000°,λ90.00000°. NP2:ϕ_s215.00000°,δ22.00000°,λ91.00000°. Principal axes: T 2.2200,Plg66.0000°,Azm302.0000°; N -0.3600,Plg0.0000°,Azm33.0000° ; P -1.8500,Plg23.0000°,Azm123.0000° $M_0$2.10000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=158.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s131,c310; s141,c332;Duration: 3s0 Moment tensor: Scale 10^{18}Nm; M_{rr}1.67±.02 $M_{\theta\theta}$-0.34±.01; $M_{\phi\phi}$-1.34±.02; $M_{r\theta}$0.93±.02; $M_{\theta\phi}$-0.65±.01; $M_{\phi r}$1.22±.02; Best double couple: NP1:ϕ_s34.00000° ,δ66.00000°,λ96.00000°. NP2:ϕ_s199.00000°,δ24.00000°,λ77.00000°. Principal axes: T 2.2840,Plg68.0000°,Azm315.0000°; N -0.0460,Plg5.0000°,Azm211.0000° ; P -2.2460,Plg21.0000°,Azm119.0000° $M_0$2.26500×10^{18}
IDC Error ellipse: s-maj=8.8km s-min=7.7km az=81.0.
(228) Near east coast of eastern Honshu
JMA III 12 13 20 39.9–.10 37.23N 141.39E 41–1 4.4
¶602655355
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC III 12 13 22 42.5–.92 36.57N–.04 137.59E–.04 11 4.0b 14 0-60
IDC III 12 13 22 41.4–1.2 36.56N 137.54E 0 4.2,4.0 **¶602655347**
ISCJB III 12 13 22 41.9–.56 36.54N–.04 137.58E–.04 11 4.1b,4.0
JMA III 12 13 22 42.5–.10 36.56N 137.60E 1–2 3.5,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=10.5km s-min=9.6km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=2.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s52.00000°,δ76.00000°,λ-155.00000°. NP2:ϕ_s316.00000°,δ66.00000°,λ-15.00000°. Principal axes: T Plg7.0000°,Azm182.0000°; N Plg62.0000°,Azm79.0000°; P Plg27.0000° ,Azm276.0000°
(228) Near east coast of eastern Honshu
ISC III 12 13 23 04.2–.72 36.03N–.07 141.20E–.09 31 4.5b 34 0-118
IDC III 12 13 22 59.0–.83 36.15N 141.68E 0 4.5,4.4 **¶16476977**
NEIC III 12 13 23 01.4–.81 35.47N 141.38E 35 4.4b,4.4
ISCJB III 12 13 23 02.6–.54 36.05N–.05 141.25E–.07 31 4.3b,4.4
JMA III 12 13 23 04.6–.10 36.03N 141.06E 36–2 4.3,4.4
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=19.5km az=76.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=17.1km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.7km az=179.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 13 23 52.0–.43 36.19N–.04 142.05E–.05 21–4 4.8b 275 1-154
IDC III 12 13 23 49.0–.37 36.23N 141.93E 0 4.8,4.7 **¶17194436**
ISCJB III 12 13 23 50.3–1.1 36.17N–.03 142.06E–.04 21–7 4.8b,4.7
JMA III 12 13 23 51.1–.40 36.17N 142.02E 14 4.7,4.7
MOS III 12 13 23 51.9–.99 36.24N 142.00E 32 5.4b,4.7
NEIC III 12 13 23 53.2–1.6 36.20N 141.94E 28–11 5.4b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=11.3km s-min=10.0km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.7km az=17.5.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=6.0km az=103.3.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=116.0. Recorded [3 JMA] in Fukushima and Iwate.
(228) Near east coast of eastern Honshu
ISC III 12 13 24 15.1–1.4 38.97N–.06 142.41E–.09 27 4.3b 19 1-63
ISCJB III 12 13 24 12.9–1.0 38.95N–.05 142.55E–.09 27 4.3b **¶17194432**
JMA III 12 13 24 13.9–.20 38.96N 142.47E 30 5.0
IDC III 12 13 24 22.9–1.2 37.22N 141.43E 0 4.5,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.3km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.4km s-min=27.5km az=123.0.
(228) Near east coast of eastern Honshu
JMA III 12 13 25 02.5–.10 37.23N 141.03E 23–1 4.4
¶603049612
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 13 26 56.0–.50 39.45N–.03 142.61E–.04 27–3 5.3s,5.2b 462 2-149
NIED III 12 13 26 00 39.50N 142.60E 32 5.0W,5.2b **¶16310816**
BJI III 12 13 26 52.7 39.44N 142.60E 22 5.8b,5.4s
JMA III 12 13 26 54.1–.30 39.53N 142.63E 7–3 5.4,5.4s
MOS III 12 13 26 56.3–1.4 39.60N 142.63E 33 5.4b,5.4s
ISCJB III 12 13 26 56.7–.49 39.44N–.02 142.61E–.03 45–3 5.3s,5.1b
NEIC III 12 13 26 57.3–.20 39.43N 142.37E 35 5.3b,5.1b
IDC III 12 13 26 57.5–3.2 39.51N 142.47E 33–24 4.9,4.9s

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ106.00000°. NP2:ϕ_s2.00000°,δ72.00000°,λ85.00000°. $M_0$3.75000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=5.9km az=88.5.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=23.5.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=124.0. Recorded [2 JMA] in Akita, Aomori, Iwate, Miyagi and Yamagata.
IDC Error ellipse: s-maj=12.1km s-min=9.2km az=101.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 13 27 01.0–.10**	**37.21N**	**141.38E**	**39–1**	**3.7**	
							¶602655341

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**12 13 27 13.3**	**36.92N**	**138.56E**	**0**	**3.6**	
							¶602655337

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s47.00000°,δ81.00000°,λ89.00000°. NP2:ϕ_s233.00000°,δ9.00000°,λ96.00000°. Principal axes: T Plg54.0000°,Azm316.0000°; N Plg1.0000°,Azm47.0000°; P Plg36.0000°,Azm138.0000°

(229) Off east coast of Honshu

ISC	**III**	**12 13 30 16.1–.63**	**37.71N–.04**	**143.60E–.07**	**19**	**4.8b**	**61**	**2-144**
IDC	III	12 13 30 13.7–.76	37.59N	143.71E	0	4.8,4.8		**¶16476986**
ISCJB	III	12 13 30 14.9–.46	37.71N–.03	143.51E–.05	19	4.8b,4.8		
JMA	III	12 13 30 17.8–.40	37.72N	143.43E	43	4.8,4.8		
NEIC	III	12 13 30 18.8–.66	37.72N	143.52E	35	4.9b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=14.1km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=29.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.9km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 13 40 56.9–.44**	**35.74N–.04**	**141.17E–.06**	**33**	**4.4b**	**82**	**0-148**
NIED	III	12 13 40 00	35.80N	141.10E	32	4.6W		**¶16461455**
IDC	III	12 13 40 51.8–.52	35.76N	141.26E	0	4.3,4.3		
ISCJB	III	12 13 40 54.9–.31	35.74N–.03	141.26E–.04	33	4.4b,4.3		
JMA	III	12 13 40 56.7–.20	35.81N	141.09E	34–1	4.5,4.3		
NEIC	III	12 13 40 57.1–.84	35.70N	141.17E	35–7	4.5,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ49.00000°,λ-160.00000°. NP2:ϕ_s116.00000°,δ75.00000°,λ-42.00000°. $M_0$1.02000×10^{16}
IDC Error ellipse: s-maj=16.5km s-min=10.8km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.5km az=11.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.1km az=91.0.

(227) Eastern Honshu

JMA	**III**	**12 13 44 29.8–.10**	**37.18N**	**140.98E**	**7–1**	**3.7**	
							¶602655311

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 13 48 44.8–.86**	**35.5N–.10**	**142.8E–.10**	**35**	**3.7b**	**15**	**2-78**
IDC	III	12 13 48 38.2–.88	35.66N	141.91E	0	4.0,3.8		**¶16476992**
ISCJB	III	12 13 48 42.6–.69	35.36N–.09	142.95E–.08	35	3.7b,3.8		
JMA	III	12 13 49 01.6–.20	35.36N	141.23E	22–3	4.2,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=36.6km s-min=17.8km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=9.6km az=169.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 13 51 13.0–2.1**	**36.98N–.05**	**141.71E–.07**	**23–15**	**4.2b**	**57**	**1-147**
ISCJB	III	12 13 51 12.8–.92	36.93N–.04	141.81E–.06	39–8	4.1b		**¶602655305**
JMA	III	12 13 51 13.5–.20	36.98N	141.64E	19–2	4.0		
IDC	III	12 13 51 15.8–1.6	36.90N	141.79E	50–16	4.2,4.1		
NEIC	III	12 13 51 16.0–.88	36.93N	141.76E	52–8	4.2b,4.1		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.8km az=162.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=10.6km az=84.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.6km az=71.0.

(229) Off east coast of Honshu

ISC	**III**	**12 13 53 25.6–2.5**	**36.92N–.05**	**142.42E–.05**	**5–15**	**4.2b**	**73**	**1-146**
NIED	III	12 13 53 00	37.00N	142.40E	23	4.6W		**¶16476999**
JMA	III	12 13 53 26.0–.40	36.98N	142.43E	5–5	4.3		
NEIC	III	12 13 53 30.9–1.1	36.89N	142.34E	45–10	4.5b		
IDC	III	12 13 53 31.0–1.9	36.90N	142.33E	44–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ33.00000°,λ-170.00000°. NP2:ϕ_s164.00000°,δ85.00000°,λ-57.00000°. $M_0$7.55000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.9km az=99.0.
IDC Error ellipse: s-maj=15.7km s-min=11.2km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 13 57 10.8–.46**	**36.39N–.03**	**141.88E–.04**	**23–2**	**5.2b,4.9s**	**681**	**1-154**
NIED	III	12 13 57 00	36.40N	141.90E	17	4.9W,4.9s		**¶16310817**
IDC	III	12 13 57 07.4–.31	36.35N	141.95E	0	4.8,4.7		
BJI	III	12 13 57 09.8	36.22N	141.61E	21	5.3b,5.1b		
ISCJB	III	12 13 57 10.1–.79	36.38N–.02	141.92E–.02	26–5	5.0b,4.9s		
JMA	III	12 13 57 11.0–.30	36.43N	141.89E	27	5.0,4.9s		
NEIC	III	12 13 57 12.7–.12	36.34N	141.80E	35	5.2b,4.9s		
MOS	III	12 13 57 13.4–.96	36.79N	141.83E	38	5.3b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ34.00000°,λ-149.00000°. NP2:ϕ_s177.00000°,δ73.00000°,λ-60.00000°. $M_0$2.19000×10^{16}
IDC Error ellipse: s-maj=9.7km s-min=8.5km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=159.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=150.0.
MOS Error ellipse: s-maj=6.6km s-min=4.8km az=96.1.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 13 58 32.7**	**36.55N**	**140.83E**	**28–2**	**4.2**	
							¶602655300

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 03 29.5–.27**	**38.81N–.03**	**142.67E–.03**	**24–1**	**5.8b,5.3s**	**1031**	**2-159**
NIED	III	12 14 03 00	38.80N	142.70E	20	5.5W,5.3s		**¶602655285**
IDC	III	12 14 03 25.9–.30	38.81N	142.68E	0	5.3,5.2		
JMA	III	12 14 03 26.8–.40	38.78N	142.74E	7	5.8,5.2		
BJI	III	12 14 03 27.4	38.80N	142.57E	23	5.7b,5.6s		
ISCJB	III	12 14 03 28.5–.71	38.77N–.02	142.63E–.02	26–4	5.6b,5.4s		
MOS	III	12 14 03 29.0–1.1	38.89N	142.70E	33	6.0b,5.2s		
NEIC	III	12 14 03 31.3–.09	38.79N	142.55E	35	5.8b,5.3s		
GCMT	III	12 14 03 31.3–.20	38.76N	142.72E	26–0	5.6W,5.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ38.00000°,λ-121.00000°. NP2:ϕ_s2.00000°,δ58.00000°,λ-68.00000°. $M_0$1.78000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=7.8km az=92.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=145.1.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=97.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=136.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c62; s102,c177; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.30±.10 $M_{\theta\theta}$0.18±.06; $M_{\phi\phi}$2.12±.06; $M_{r\theta}$-0.80±.14; $M_{\theta\phi}$-0.69±.03; $M_{\phi r}$-1.31±.12; Best double couple: NP1:ϕ_s4.00000°,δ61.00000°,λ-67.00000°. NP2:ϕ_s144.00000°,δ36.00000°,λ-125.00000°. Principal axes: T 2.5730,Plg13.0000°,Azm78.0000°; N 0.3790,Plg20.0000°,Azm173.0000°; P -2.9540,Plg66.0000°,Azm317.0000° $M_0$2.76400×10^{17}

(229) Off east coast of Honshu

JMA	**III**	**12 14 06 03.0–.10**	**36.65N**	**142.03E**	**14–2**	**4.6**	
							¶602655282

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 10 18.4–.58**	**36.24N–.07**	**142.61E–.06**	**18**	**4.3b**	**39**	**2-146**
IDC	III	12 14 10 15.8–.68	36.30N	142.63E	0	4.4,4.2		**¶16477008**
ISCJB	III	12 14 10 16.2–.41	36.18N–.05	142.70E–.06	18	4.2b,4.2		
NEIC	III	12 14 10 20.7–.34	36.24N	142.60E	35	4.2b,4.2		
JMA	III	12 14 10 43.4–.20	35.90N	140.94E	9–2	4.2,4.2		

ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=16.3km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.2km az=39.6.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.4km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(49) Gulf of California

ISC	**III**	**12 14 11 04.0–.64**	**25.42N–.04**	**109.74W–.05**	**16–3**	**5.2b,4.8s**	**448**	**1-139**
ISCJB	III	12 14 11 00.7–.92	25.39N–.02	109.69W–.02	2–6	5.1b,4.8s		**¶16310182**
IDC	III	12 14 11 01.8–.57	25.54N	109.56W	0	4.8,4.8s		
BJI	III	12 14 11 02.9	25.40N	109.70W	12	5.7b,5.5		
MEX	III	12 14 11 02.7–.45	25.58N	109.81W	12–5	5.2,5.5		
NEIC	III	12 14 11 03.0–.31	25.32N	109.74W	10	5.3b,5.2		
GCMT	III	12 14 11 03.0–.30	25.65N	109.80W	12	5.4W,5.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=34.0.
IDC Error ellipse: s-maj=17.5km s-min=10.4km az=57.0.
MEX Error ellipse: s-maj=1.9km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=222.0. Felt [II] at Los Mochis, Sinaloa. Also felt at Guasave and Topolobampo.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s97,c151; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.51±.04 $M_{\theta\theta}$0.08±.04; $M_{\phi\phi}$1.44±.04; $M_{r\theta}$0.43±.18; $M_{\theta\phi}$0.30±.04; $M_{\phi r}$-0.52±.14; Best double couple: NP1:ϕ_s355.00000°,δ55.00000°,λ-110.00000°. NP2:ϕ_s207.00000°,δ39.00000°,λ-64.00000°. Principal axes: T 1.5630,Plg8.0000°,Azm99.0000°; N 0.1660,Plg16.0000°,Azm7.0000°; P -1.7220,Plg72.0000°,Azm215.0000° $M_0$1.64300×10^{17}

(228) Near east coast of eastern Honshu

JMA	**III**	**12 14 12 23.0–.20**	**37.21N**	**141.39E**	**36–2**	**4.1**	
							¶602655274

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 14 53.3–.81**	**35.79N–.04**	**140.80E–.04**	**17–5**	**4.8b**	**173**	**0-155**
NIED	III	12 14 14 00	35.90N	140.90E	5	4.7W		**¶602655267**
IDC	III	12 14 14 50.7–.36	35.83N	140.89E	0	4.6,4.5		
JMA	III	12 14 14 51.6–.10	35.90N	140.94E	11–2	5.0,4.5		
ISCJB	III	12 14 14 51.1–.18	35.73N–.03	140.73E–.03	10	4.7b,4.5		
BJI	III	12 14 14 52.3	35.71N	140.85E	28	5.2b,5.0s		
NEIC	III	12 14 14 56.4–.22	35.72N	140.67E	35	4.9b,5.0s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ41.00000°,λ-34.00000°. NP2:ϕ_s140.00000°,δ68.00000°,λ-126.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=9.2km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=176.5.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=139.0. Recorded [3 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 14 15 04.6–.10**	**37.21N**	**141.40E**	**39–1**	**4.1**	
							¶602655265

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 17 01.7–1.7**	**36.24N–.04**	**141.06E–.05**	**15–10**	**4.2b**	**53**	**1-147**
IDC	III	12 14 16 59.3–.56	36.23N	141.20E	0	4.3,4.3L		**¶600541601**
ISCJB	III	12 14 17 02.4–1.4	36.19N–.03	141.24E–.05	33–10	4.2b,4.3L		
NEIC	III	12 14 17 03.1–2.0	36.19N	141.15E	26–15	4.5b,4.3L		
JMA	III	12 14 17 05.0–.10	36.30N	141.06E	42–3	4.4,4.3L		

ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=14.1km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=169.5.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 14 18 05.3–.10**	**37.61N**	**141.70E**	**43–2**	**4.1**	
							¶602655186

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 21 52.9–.69**	**39.38N–.03**	**142.86E–.05**	**42–5**	**4.5b**	**156**	**2-145**
JMA	III	12 14 21 50.4–.30	39.45N	142.84E	19–5	4.8		**¶16461458**
ISCJB	III	12 14 21 52.1–.52	39.38N–.02	142.84E–.04	49–4	4.5b		
NEIC	III	12 14 21 54.0–.68	39.39N	142.69E	50–6	4.5b		
IDC	III	12 14 21 54.6–1.9	39.35N	142.72E	56–18	4.4,4.2		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=20.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.8km az=126.0.
IDC Error ellipse: s-maj=12.6km s-min=10.2km az=118.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 14 33 40.4–.10**	**36.12N**	**141.20E**	**25–3**	**3.8**	
							¶602655158

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 34 58.9–.42**	**35.81N–.03**	**141.71E–.03**	**20–2**	**5.5b,5.5s**	**842**	**1-154**
NIED	III	12 14 34 00	35.90N	141.80E	17	5.4W,5.5s		**¶600541633**
IDC	III	12 14 34 55.8–.31	35.80N	141.76E	0	5.2,5.2		
ISCJB	III	12 14 34 57.0–.81	35.80N–.02	141.70E–.02	16–5	5.5s,5.5b		
BJI	III	12 14 34 58.1	35.80N	141.59E	22	5.5b,5.5s		
JMA	III	12 14 34 58.3–.20	35.88N	141.83E	22–3	5.6,5.5s		
MOS	III	12 14 34 59.5–1.1	35.82N	141.77E	34	5.8b,5.7s		
GCMT	III	12 14 35 01.1–.30	35.74N	141.69E	17–1	5.4W,5.7s		
NEIC	III	12 14 35 01.1–.12	35.78N	141.66E	35	5.6b,5.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ27.00000°,λ138.00000°. NP2:ϕ_s126.00000°,δ72.00000°,λ70.00000°. $M_0$1.39000×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=8.6km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.2km az=116.6.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s81,c129; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.19±.08 $M_{\theta\theta}$-0.28±.04; $M_{\phi\phi}$-0.91±.05; $M_{r\theta}$1.42±.14; $M_{\theta\phi}$-0.07±.03; $M_{\phi r}$-0.33±.10; Best double couple: NP1:ϕ_s112.00000°,δ76.00000°,λ82.00000°. NP2:ϕ_s322.00000°,δ16.00000°,λ119.00000°. Principal axes: T 2.0890,Plg58.0000°,Azm12.0000°; N -0.9010,Plg8.0000°,Azm114.0000°; P -1.1910,Plg31.0000°,Azm209.0000° $M_0$1.64000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=131.0. Recorded [5L JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 43 08.4–.30**	**39.45N–.03**	**142.58E–.03**	**20–1**	**5.7b,5.5s**	**1611**	**2-159**
NIED	III	12 14 43 00	39.50N	142.70E	20	5.7W,5.5s		**¶602655123**
BJI	III	12 14 43 05.3	39.34N	142.62E	22	6.0b,5.9		
JMA	III	12 14 43 05.9–.20	39.47N	142.70E	9–2	5.9,5.9		
IDC	III	12 14 43 05.8–.32	39.51N	142.52E	0	5.4,5.4s		
ISCJB	III	12 14 43 06.5–.65	39.43N–.01	142.54E–.02	14–4	5.7b,5.6s		
MOS	III	12 14 43 08.6–1.1	39.56N	142.56E	34	6.1b,5.5s		
NEIC	III	12 14 43 10.8–.09	39.47N	142.41E	35	5.7b,5.5s		
GCMT	III	12 14 43 10.9–.20	39.52N	142.52E	15–0	5.8W,5.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ10.00000°,λ74.00000°. NP2:ϕ_s0.00000°,δ81.00000°,λ93.00000°. $M_0$3.64000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=9.3km s-min=8.9km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=155.9.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=97.2.

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=139.0. Recorded [4 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c74; s102,c172; Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.05 $M_{\theta\theta}$0.14±.04; $M_{\phi\phi}$-1.02±.04; $M_{r\theta}$0.15±.16; $M_{\theta\phi}$0.14±.03; $M_{\phi r}$5.80±.40; Best double couple: NP1:ϕ_s1.00000°,δ85.00000°,λ92.00000°. NP2:ϕ_s162.00000°,δ5.00000°,λ71.00000°. Principal axes: T 5.8150,Plg50.0000°,Azm273.0000°; N 0.1370,Plg2.0000°,Azm181.0000°; P -5.9470,Plg40.0000°,Azm90.0000° $M_0$5.88100×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**12 14 56 39.9–.54**	**39.26N–.05**	**142.34E–.07**	**35**	**4.4b**	**90**	**1-116**
ISCJB	III	12 14 56 38.1–.40	39.27N–.04	142.45E–.06	35	4.3b		**¶16461395**
NEIC	III	12 14 56 40.7–.51	39.39N	142.20E	35	4.3b		
JMA	III	12 14 56 40.4–.30	39.28N	142.30E	46	4.4		
IDC	III	12 14 56 43.4–2.3	39.25N	142.20E	65–20	4.2,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=38.5.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.1km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=13.4km az=122.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 15 06 39.6–.10**	**37.22N**	**141.39E**	**39–1**	**3.7**		
								¶602655091

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 15 10 47.8–1.5**	**37.30N–.06**	**141.08E–.07**	**10–8**	**4.2b**	**40**	**0-147**
JMA	III	12 15 10 43.4–.10	37.30N	141.31E	28–1	3.8		**¶16461464**
NEIC	III	12 15 10 48.0–.47	36.67N	141.80E	35	4.1b		
IDC	III	12 15 10 49.1–2.1	36.65N	141.83E	45–20	4.2L,4.1		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=126.0.
IDC Error ellipse: s-maj=19.3km s-min=12.4km az=91.0.

(227) Eastern Honshu

JMA	**III**	**12 15 14 42.2**	**36.81N**	**139.47E**	**5**	**2.6**		
								¶16477026

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 15 15 14.7–.68**	**37.09N–.10**	**141.92E–.06**	**19**	**4.3b**	**28**	**1-83**
ISCJB	III	12 15 15 12.6–.54	37.04N–.08	142.02E–.05	19	4.2b,3.9s		**¶16461467**
JMA	III	12 15 15 14.1–.20	37.05N	141.89E	15–2	4.3,3.9s		
IDC	III	12 15 15 18.4–3.7	36.99N	142.04E	54–33	4.2,4.1		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.3km az=5.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.0km s-min=15.5km az=75.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 15 24 34.0–1.3**	**38.17N–.04**	**142.20E–.07**	**47–11**	**4.1b**	**84**	**1-146**
JMA	III	12 15 24 32.0–.30	38.15N	142.20E	34	4.1		**¶602655075**
ISCJB	III	12 15 24 32.3–.68	38.16N–.02	142.22E–.05	48–5	4.0b		
NEIC	III	12 15 24 33.4–.46	38.30N	142.27E	35	4.0b		
IDC	III	12 15 24 36.4–2.5	38.25N	142.16E	64–22	4.0,3.9		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=3.7km az=13.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.3km az=122.0.
IDC Error ellipse: s-maj=16.1km s-min=12.2km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 15 34 12.3–1.7**	**36.60N–.09**	**141.2E–.10**	**20–7**	**3.8b**	**19**	**1-57**
IDC	III	12 15 34 08.0–2.6	36.63N	141.51E	0	3.9,3.8		**¶16477037**
JMA	III	12 15 34 14.4–.10	36.63N	141.09E	38–3	3.7,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=28.4km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**12 15 44 16.2**	**36.93N**	**138.60E**	**5–1**	**3.8**		
								¶600541744

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**12 15 44 32.1–.75**	**36.81N–.09**	**142.4E–.10**	**9**	**4.3b**	**37**	**3-83**
ISCJB	III	12 15 44 30.1–.53	36.75N–.06	142.45E–.08	9	4.3s,4.1b		**¶602655027**
NEIC	III	12 15 44 36.0–.47	36.82N	142.32E	35	4.3b,4.1b		
IDC	III	12 15 44 38.1–2.8	36.80N	142.31E	52–24	4.1,4.1		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.5km az=39.0.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=6.6km az=125.0. Recorded [3 JMA] in Nagano.
IDC Error ellipse: s-maj=20.0km s-min=15.5km az=109.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 15 45 35.5–.10**	**36.22N**	**141.12E**	**47–4**	**3.6**		
NIED	III	12 15 45 00	36.20N	141.10E	26	4.4W		**¶603049626**

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ44.00000°,λ-37.00000°. NP2:ϕ_s352.00000°,δ65.00000°,λ-128.00000°. $M_0$3.92000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**III**	**12 15 55 18.7–.87**	**36.45N–.05**	**141.70E–.07**	**33–3**	**4.8b**	**130**	**1-147**
NIED	III	12 15 55 00	36.50N	141.50E	26	4.6W		**¶16461399**
ISCJB	III	12 15 55 18.2–.81	36.46N–.03	141.69E–.06	42–6	4.7b,3.9s		
NEIC	III	12 15 55 19.6–.95	36.43N	141.61E	43–8	4.8b,3.9s		
JMA	III	12 15 55 19.4–.20	36.47N	141.52E	28	4.6,3.9s		
IDC	III	12 15 55 20.7–1.8	36.45N	141.63E	48–17	4.4,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ27.00000°,λ-111.00000°. NP2:ϕ_s356.00000°,δ65.00000°,λ-80.00000°. $M_0$9.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.3km az=8.9.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.9km az=91.0.
JMA Event type fe.
IDC Error ellipse: s-maj=14.5km s-min=10.8km az=98.0.

(229) Off east coast of Honshu

ISC	**III**	**12 16 03 54.5–.60**	**36.95N–.04**	**142.25E–.05**	**29–4**	**4.7b**	**183**	**1-147**
NIED	III	12 16 03 00	37.00N	142.30E	20	4.7W		**¶16310819**
IDC	III	12 16 03 50.7–.45	37.01N	142.19E	0	4.6,4.6L		
JMA	III	12 16 03 52.5–.30	37.01N	142.30E	14–4	4.8,4.6L		
ISCJB	III	12 16 03 55.4–.65	36.95N–.03	142.21E–.04	45–5	4.7b,3.5s		
NEIC	III	12 16 03 56.1–.25	37.04N	142.11E	35	4.8b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ19.00000°,λ111.00000°. NP2:ϕ_s7.00000°,δ73.00000°,λ83.00000°. $M_0$1.27000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=10.7km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.8km az=9.5.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=141.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 06 36.5–.10**	**37.42N**	**141.40E**	**38–2**	**3.7**		
								¶602655795

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 16 07 36.1–4.1**	**38.95N–.04**	**142.76E–.07**	**23–29**	**4.6b**	**74**	**2-145**
IDC	III	12 16 07 32.3–.59	38.94N	142.72E	0	4.4,4.2		**¶16476704**
JMA	III	12 16 07 34.6–.50	39.00N	142.64E	11–4	4.7,4.2		
ISCJB	III	12 16 07 35.7–.83	38.91N–.03	142.73E–.06	34–8	4.5b,4.2		
NEIC	III	12 16 07 37.8–.24	38.96N	142.68E	35	4.7b,4.2		

ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=129.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.4km az=14.2.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.5km az=132.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 08 27.3–.10**	**37.31N**	**141.09E**	**26–1**	**3.5**		
NIED	III	12 16 08 00	37.30N	141.10E	35	4.3W		**¶600541785**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ61.00000°,λ21.00000°. NP2:ϕ_s156.00000°,δ72.00000°,λ149.00000°. $M_0$2.90000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 10 46.8–.10**	**37.37N**	**141.33E**	**24–1**	**4.0**		
								¶602655789

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 16 13 46.3–.72**	**35.68N–.09**	**140.9E–.10**	**39–5**	**4.0b**	**31**	**0-148**
NIED	III	12 16 13 00	35.80N	141.10E	14	4.1W		**¶16461474**
IDC	III	12 16 13 41.1–.78	35.61N	140.88E	0	4.1,4.0		
ISCJB	III	12 16 13 44.6–.82	35.57N–.08	140.94E–.08	43–5	4.0b,4.0		
NEIC	III	12 16 13 46.0–.50	35.61N	140.84E	35	4.1b,4.0		
JMA	III	12 16 13 46.3–.20	35.79N	141.05E	35–1	3.7,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ69.00000°,λ1.00000°. NP2:ϕ_s158.00000°,δ89.00000°,λ159.00000°. $M_0$1.85000×10^{15}
IDC Error ellipse: s-maj=26.0km s-min=19.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=11.5km az=169.1.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.6km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**12 16 15 34.5**	**36.98N**	**138.60E**	**8–1**	**2.2**		
								¶16461475

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 16 42.6–.10**	**37.42N**	**141.45E**	**37–1**	**3.7**		
								¶602655783

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(162) South Island

WEL	**III**	**12 16 18 59.3–.09**	**45.16S**	**167.87E**	**12**	**4.1L**		
NEIC	III	12 16 18 59.5	45.15S	167.87E	16	4.1L		**¶16310821**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt from Fiordland to Otago, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Te Anau. After WEL.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 19 17.2–.10**	**37.29N**	**141.27E**	**43–1**	**3.5**		
								¶603049631

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 35 00.8–.20**	**39.12N**	**142.39E**	**11–2**	**3.8**		
								¶602655751

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 47 18.0–.20**	**36.93N**	**141.18E**	**43–2**	**3.7**		
								¶603049634

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**12 16 48 09.8–.85**	**37.54N–.05**	**142.12E–.05**	**13–5**	**4.7b**	**157**	**1-146**
NIED	III	12 16 48 00	37.50N	142.00E	20	4.4W		**¶16310826**
IDC	III	12 16 48 08.2–.49	37.55N	142.09E	0	4.6,4.5b		
ISCJB	III	12 16 48 09.0–1.5	37.52N–.03	142.15E–.03	15–9	4.6b,4.5b		
NEIC	III	12 16 48 11.1–2.5	37.60N	142.06E	19–15	4.7b,4.5b		
JMA	III	12 16 48 11.4–.20	37.49N	142.03E	22–3	4.6,4.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ37.00000°,λ-65.00000°. NP2:ϕ_s91.00000°,δ57.00000°,λ-107.00000°. $M_0$4.24000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=11.8km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.7km az=160.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 51 00.0–.20**	**36.65N**	**141.01E**	**43–3**	**3.9**		
								¶602655738

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 53 25.7–.20**	**39.07N**	**142.41E**	**20–2**	**4.1**		
								¶602655737

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 16 56 00.9–.30**	**35.64N**	**141.01E**	**25–1**	**3.1**		
								¶16852246

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 16 59 22.4–.68**	**37.45N–.09**	**141.57E–.07**	**60**	**4.2b**	**51**	**1-146**
NIED	III	12 16 59 00	36.70N	141.20E	20	4.1W		**¶602655724**
IDC	III	12 16 59 14.2–.68	37.44N	141.74E	0	4.3,4.2b		
ISCJB	III	12 16 59 19.3–.48	37.28N–.06	141.64E–.05	60	4.1b,4.2b		
NEIC	III	12 16 59 19.1–.50	37.34N	141.61E	35	4.4b,4.2b		
JMA	III	12 16 59 21.5–.20	36.68N	141.15E	29–3	4.6,4.2b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ78.00000°,λ-173.00000°. NP2:ϕ_s238.00000°,δ83.00000°,λ-12.00000°. $M_0$1.73000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=14.7km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.2km az=153.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=8.0km az=140.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 17 04 31.0–.64**	**38.64N–.04**	**142.25E–.06**	**41–5**	**4.4b**	**89**	**1-145**
NIED	III	12 17 04 00	38.70N	142.20E	38	4.3W		**¶16461404**
JMA	III	12 17 04 30.7–.20	38.68N	142.21E	35–3	4.4		
ISCJB	III	12 17 04 30.6–.66	38.66N–.03	142.23E–.06	55–5	4.3b		
NEIC	III	12 17 04 31.6–.70	38.66N	142.21E	47–6	4.8b		
IDC	III	12 17 04 31.3–.62	38.70N	142.17E	39–5	4.2,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ12.00000°,λ100.00000°. NP2:ϕ_s8.00000°,δ78.00000°,λ88.00000°. $M_0$3.60000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=10.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.0km az=112.0.
IDC Error ellipse: s-maj=15.5km s-min=12.4km az=114.0.

(227) Eastern Honshu

JMA	**III**	**12 17 08 46.1–.10**	**37.15N**	**140.96E**	**24–1**	**3.2**		
								¶603049637

JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**12 17 10 31.0–.55**	**37.98N–.07**	**142.79E–.06**	**18**	**4.4b**	**71**	**2-89**
ISCJB	III	12 17 10 29.1–.37	37.99N–.04	142.82E–.05	18	4.3b		**¶602655697**
JMA	III	12 17 10 30.3–.40	37.99N	142.56E	2	4.5		
NEIC	III	12 17 10 32.6–1.8	38.03N	142.79E	28–13	4.7b		
IDC	III	12 17 10 34.6–2.1	38.05N	142.71E	42–19	4.2,4.1		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=148.9.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=115.0.
IDC Error ellipse: s-maj=16.9km s-min=13.1km az=125.0.

(229) Off east coast of Honshu

ISC	**III**	**12 17 19 23.6–.63**	**36.47N–.03**	**142.63E–.03**	**13–3**	**5.6s,5.2b**	**648**	**2-154**
NIED	III	12 17 19 00	36.50N	142.60E	5	5.5W,5.2b		**¶602655679**
BJI	III	12 17 19 20.8	36.80N	142.70E	10	6.0s,5.8		
IDC	III	12 17 19 21.1–.42	36.44N	142.66E	0	5.3,5.3s		
JMA	III	12 17 19 21.1–.30	36.53N	142.62E	2	5.6,5.3s		
ISCJB	III	12 17 19 22.6–.14	36.55N–.02	142.52E–.02	10	5.6s,5.0b		
GCMT	III	12 17 19 23.9–.10	36.47N	142.94E	12	5.6W,5.0b		
NEIC	III	12 17 19 23.9–.19	36.52N	142.48E	10	5.8W,5.5s		
MOS	III	12 17 19 25.0–1.3	36.65N	142.64E	36	5.5s,5.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ49.00000°,λ122.00000°. NP2:ϕ_s180.00000°,δ50.00000°,λ59.00000°. $M_0$2.10000×10^{17}
IDC Error ellipse: s-maj=11.4km s-min=10.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=156.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c140; s130,c273; Duration: 1$s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.24±.03 $M_{\theta\theta}$-0.46±.03; $M_{\phi\phi}$-1.77±.03; $M_{r\theta}$0.88±.09; $M_{\theta\phi}$-0.95±.02; $M_{\phi r}$1.67±.08; Best double couple: NP1:ϕ_s28.00000°,δ65.00000°,λ90.00000°. NP2:ϕ_s208.00000°,δ25.00000°,λ90.00000°. Principal axes: T 2.9270,Plg70.0000°,Azm298.0000°; N 0.0360,Plg0.0000°,Azm208.0000°; P -2.9560,Plg20.0000°,Azm118.0000° $M_0$2.94100×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=152.0. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}5.83 $M_{\theta\theta}$-0.71 $M_{\phi\phi}$-5.11 $M_{r\theta}$-2.66 $M_{\theta\phi}$0.14 $M_{\phi r}$2.12 Best double couple: NP1:ϕ_s192.00000°,δ36.00000°,λ119.00000°. NP2:ϕ_s338.00000°,δ59.00000°,λ71.00000°. Principal axes: T 7.0900,Plg69.0000°,Azm207.0000°; N -1.4900,Plg16.0000°,Azm348.0000°; P -5.6000,Plg12.0000°,Azm82.0000° $M_0$6.50000×10^{17}
MOS Error ellipse: s-maj=7.3km s-min=4.8km az=108.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 17 24 21.3**	**37.35N**	**141.15E**	**10–1**	**3.5**		**¶603049641**
JMA		Event type fe.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 17 25 47.5–1.6**	**36.98N–.09**	**141.6E–.10**	**33**	**3.7b**	**16**	**1-57**
IDC	III	12 17 25 44.4–7.4	37.35N	141.97E	33–49	4.1L,3.9		**¶17194520**
ISCJB	III	12 17 25 48.4–1.3	36.80N–.06	141.6E–.10	33	3.7b,3.9		
JMA	III	12 17 25 53.6–.20	36.82N	141.14E	45–2	4.2,3.9		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=60.7km s-min=20.1km az=69.0.						
ISCJB		Event type fe. Error ellipse: s-maj=14.2km s-min=6.4km az=153.5.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 17 30 41.3–.20**	**39.12N**	**142.06E**	**25–2**	**3.6**		**¶603049642**
JMA		Event type fe. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 17 35 21.3–1.6**	**36.57N–.05**	**141.19E–.07**	**25–12**	**3.9b**	**32**	**1-60**
ISCJB	III	12 17 35 20.3–.78	36.53N–.03	141.23E–.07	34–8	3.9b,3.0s		**¶600541982**
NEIC	III	12 17 35 21.6–2.9	36.47N	141.22E	27–22	4.4b,3.0s		
JMA	III	12 17 35 23.3–.10	36.62N	140.96E	41–3	4.1,3.0s		
IDC	III	12 17 35 24.1–2.7	36.44N	141.11E	51–25	4.2L,4.0		
ISC		Event type se.						
ISCJB		Event type fe. Error ellipse: s-maj=10.0km s-min=5.1km az=177.9.						
NEIC		Event type se. Error ellipse: s-maj=13.0km s-min=9.3km az=89.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.						
IDC		Error ellipse: s-maj=21.4km s-min=13.9km az=57.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 17 40 56.8–.43**	**38.69N–.05**	**142.63E–.06**	**38–1**	**4.7b**	**219**	**2-145**
NIED	III	12 17 40 00	38.80N	142.60E	26	4.7W		**¶16310831**
JMA	III	12 17 40 55.4–.30	38.81N	142.56E	18	4.9		
NEIC	III	12 17 40 56.5–.52	38.72N	142.51E	28–3	4.7b		
IDC	III	12 17 40 56.8–.54	38.71N	142.64E	37–4	4.4,4.3		
ISCJB	III	12 17 40 57.5–.69	38.74N–.04	142.47E–.04	49–6	4.6b,4.2s		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ13.00000°,λ-68.00000°. NP2:ϕ_s174.00000°,δ78.00000°,λ-95.00000°. $M_0$1.16000×10^{16}						
JMA		Event type fe.						
NEIC		Event type se.						
ISCJB		Event type fe.						
		(227) Eastern Honshu						
JMA	**III**	**12 17 42 54.8–.10**	**37.15N**	**140.95E**	**22–1**	**4.0**		**¶602655574**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 17 53 08.4–.83**	**35.85N–.07**	**140.94E–.09**	**42–7**	**4.1b**	**18**	**0-91**
NIED	III	12 17 53 00	35.90N	140.90E	20	4.4W		**¶600542054**
JMA	III	12 17 53 07.8–.20	35.94N	140.87E	37–2	3.7		
ISCJB	III	12 17 53 07.4–.75	35.82N–.06	140.95E–.10	51–6	4.0b		
IDC	III	12 17 53 10.5–2.5	35.80N	140.65E	62–23	4.1,4.0		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ53.00000°,λ-34.00000°. NP2:ϕ_s243.00000°,δ64.00000°,λ-137.00000°. $M_0$4.48000×10^{15}						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=13.4km s-min=10.0km az=156.1.						
IDC		Error ellipse: s-maj=27.1km s-min=13.3km az=77.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 18 09 13.7–.43**	**37.35N–.04**	**141.43E–.04**	**25–2**	**4.5b**	**133**	**0-147**
NIED	III	12 18 09 00	37.40N	141.30E	32	4.3W		**¶602654954**
ISCJB	III	12 18 09 12.6–.76	37.37N–.03	141.42E–.04	24–5	4.4b		
IDC	III	12 18 09 13.9–.38	37.39N	141.32E	27–2	4.3,4.3		
JMA	III	12 18 09 14.3–.10	37.39N	141.30E	28–1	4.5,4.3		
NEIC	III	12 18 09 17.5–.92	37.33N	141.27E	54–9	4.6b,4.3		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ59.00000°,λ-25.00000°. NP2:ϕ_s266.00000°,δ69.00000°,λ-146.00000°. $M_0$3.70000×10^{15}						
ISCJB		Event type fe. Error ellipse: s-maj=5.5km s-min=4.5km az=39.1.						
IDC		Error ellipse: s-maj=12.1km s-min=9.5km az=104.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
NEIC		Event type fe. Error ellipse: s-maj=8.5km s-min=7.5km az=129.0. Recorded [4 JMA] in Fukushima.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 18 14 24.2–1.2**	**36.30N–.04**	**140.89E–.06**	**27–10**	**4.2b**	**25**	**1-75**
IDC	III	12 18 14 19.6–1.5	36.47N	141.18E	0	4.1,4.0b		**¶602654940**
NEIC	III	12 18 14 24.2–.69	36.56N	141.18E	35	4.5b,4.0b		
ISCJB	III	12 18 14 24.0–.75	36.27N–.04	140.98E–.07	45–6	4.1b,4.0b		
JMA	III	12 18 14 24.7–.10	36.24N	140.90E	40–2	3.4,4.0b		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=50.5km s-min=20.6km az=67.0.						
NEIC		Event type se. Error ellipse: s-maj=14.8km s-min=12.0km az=108.0.						
ISCJB		Event type fe. Error ellipse: s-maj=10.2km s-min=6.8km az=168.9.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 18 37 25.9–.10**	**37.28N**	**141.45E**	**39–1**	**3.8**		**¶602654872**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 18 40 20.2–.10**	**37.20N**	**141.40E**	**40–1**	**3.9**		**¶602654869**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
		(226) Near west coast of eastern Honshu						
JMA	**III**	**12 18 48 16.9–.10**	**40.35N**	**139.21E**	**19–2**	**4.0**		**¶602654849**
JMA		Event type fe.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 18 51 37.8–.95**	**36.55N–.04**	**141.74E–.06**	**34–3**	**4.4b**	**105**	**1-147**
NIED	III	12 18 51 00	36.60N	141.80E	20	4.3W		**¶17194545**
JMA	III	12 18 51 34.4–.30	36.59N	141.83E	15	4.2		
ISCJB	III	12 18 51 36.9–.69	36.53N–.03	141.75E–.05	40–5	4.3b		
IDC	III	12 18 51 38.7–2.7	36.60N	141.69E	39–23	4.2,4.1		
NEIC	III	12 18 51 38.3–.72	36.57N	141.69E	36–6	4.5b,4.1		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ43.00000°,λ-97.00000°. NP2:ϕ_s4.00000°,δ48.00000°,λ-84.00000°. $M_0$2.76000×10^{15}						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=7.0km s-min=5.1km az=173.8.						
IDC		Error ellipse: s-maj=15.3km s-min=13.0km az=80.0.						
NEIC		Event type fe. Error ellipse: s-maj=6.8km s-min=6.3km az=116.0. Recorded [1 JMA] in Aomori.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 18 54 06.2–.50**	**36.61N–.04**	**141.79E–.05**	**19**	**4.1b**	**63**	**1-147**
NIED	III	12 18 54 00	36.70N	142.00E	23	4.4W		**¶600542210**
ISCJB	III	12 18 54 04.1–.34	36.60N–.03	141.92E–.04	19	4.1b,4.0s		
JMA	III	12 18 54 05.5–.20	36.66N	141.98E	49	4.1,4.0s		
IDC	III	12 18 54 09.8–2.5	36.60N	141.77E	45–23	4.1,4.0		
NEIC	III	12 18 54 10.8–.88	36.57N	141.68E	58–7	4.4b,4.0		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ41.00000°,λ-105.00000°. NP2:ϕ_s188.00000°,δ50.00000°,λ-77.00000°. $M_0$3.92000×10^{15}						
ISCJB		Event type fe. Error ellipse: s-maj=4.8km s-min=4.2km az=11.3.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
IDC		Error ellipse: s-maj=17.1km s-min=14.0km az=98.0.						
NEIC		Event type se. Error ellipse: s-maj=8.7km s-min=6.9km az=116.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 18 56 40.5–.10**	**37.20N**	**141.16E**	**14–1**	**3.5**		**¶602654842**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 18 58 16.3–.54**	**38.71N–.05**	**142.98E–.06**	**20–2**	**4.2b**	**67**	**2-88**
JMA	III	12 18 58 15.2–.30	38.81N	142.80E	0	4.2		**¶602654840**
IDC	III	12 18 58 17.0–.57	38.81N	142.88E	20–2	4.1,4.1		
NEIC	III	12 18 58 19.3–1.1	38.77N	142.92E	42–9	4.4b,4.1		
ISC		Event type ke.						
JMA		Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.						
IDC		Error ellipse: s-maj=17.0km s-min=11.7km az=88.0.						
NEIC		Event type se. Error ellipse: s-maj=12.9km s-min=7.8km az=107.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 18 58 24.5**	**37.28N**	**141.09E**	**21**	**3.5**		**¶602654838**
JMA		Event type fe.						
		(229) Off east coast of Honshu						
ISC	**III**	**12 19 01 04.4–.48**	**36.51N–.04**	**142.19E–.06**	**23–2**	**4.7b**	**136**	**1-146**
ISCJB	III	12 19 01 02.0–1.4	36.51N–.03	142.19E–.05	16–9	4.6b,4.2s		**¶600542233**
JMA	III	12 19 01 03.9–.50	36.64N	142.19E	55	4.7,4.2s		
IDC	III	12 19 01 06.4–.49	36.58N	142.10E	30–3	4.4,4.3		
NEIC	III	12 19 01 08.2–.98	36.64N	142.01E	48–8	4.7b,4.3		
ISC		Event type se.						
ISCJB		Event type fe. Error ellipse: s-maj=7.3km s-min=5.7km az=13.5.						
JMA		Event type fe. Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.						
IDC		Error ellipse: s-maj=13.0km s-min=10.2km az=106.0.						
NEIC		Event type se. Error ellipse: s-maj=7.9km s-min=5.9km az=115.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 19 07 33.9–1.2**	**39.13N–.10**	**142.5E–.10**	**27**	**3.8b**	**12**	**1-73**
ISCJB	III	12 19 07 31.9–.98	39.09N–.09	142.61E–.09	27	3.8b		**¶16477131**
JMA	III	12 19 07 34.1–.20	39.14N	142.40E	18–2	4.0		
IDC	III	12 19 07 39.5–4.5	39.03N	142.27E	78–42	3.8,3.6		
ISC		Event type ke.						
ISCJB		Event type fe. Error ellipse: s-maj=13.6km s-min=9.5km az=7.4.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
IDC		Error ellipse: s-maj=33.7km s-min=24.7km az=84.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 19 08 03.0–1.3**	**36.87N–.07**	**141.4E–.10**	**33**	**3.8b**	**15**	**1-74**
IDC	III	12 19 07 55.4–1.9	36.97N	142.05E	0	3.8,3.8		**¶17194550**
ISCJB	III	12 19 08 03.8–1.3	36.81N–.05	141.4E–.10	33	3.7b,3.8		
JMA	III	12 19 08 06.4–.20	36.85N	141.13E	44–2	3.9,3.8		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=45.1km s-min=25.3km az=76.0.						
ISCJB		Event type fe. Error ellipse: s-maj=15.2km s-min=6.4km az=163.9.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
		(460) Wyoming						
ISC	**III**	**12 19 09 09.9–.77**	**43.78N–.03**	**105.32W–.03**	**0**		**97**	**1-11**
IDC	III	12 19 09 08.2–2.0	43.62N	105.31W	0	3.7,3.4		**¶17194554**
ISCJB	III	12 19 09 09.4–.22	43.75N–.02	105.34W–.02	0	3.7,3.4		
NEIC	III	12 19 09 10.1–.45	43.79N	105.22W	0	3.7,3.4		
ISC		Event type sm.						
IDC		Error ellipse: s-maj=53.5km s-min=9.1km az=151.0.						
ISCJB		Event type fm. Error ellipse: s-maj=3.1km s-min=2.2km az=159.2.						
NEIC		Event type fm. Error ellipse: s-maj=6.7km s-min=5.8km az=145.0. 61 km [38 miles] SSE of Gillette. Suspected Mining explosion.						
		(229) Off east coast of Honshu						
ISC	**III**	**12 19 11 59.0–.29**	**37.68N–.03**	**142.75E–.04**	**21**	**5.2s,5.1b**	**471**	**2-154**
NIED	III	12 19 11 00	37.70N	142.60E	5	5.5W,5.1b		**¶602654781**
IDC	III	12 19 11 55.9–.40	37.65N	142.71E	0	4.9,4.9		
JMA	III	12 19 11 56.5–.40	37.66N	142.60E	1	5.3,4.9		
BJI	III	12 19 11 57.0	37.76N	142.70E	25	5.4b,5.4s		
NEIC	III	12 19 11 57.0–2.1	37.71N	142.61E	5–12	5.1b,5.4s		
GCMT	III	12 19 11 57.0–.20	37.88N	142.51E	12	5.3W,5.4s		
ISCJB	III	12 19 11 58.4–.14	37.78N–.02	142.60E–.02	21	5.3s,5.0b		
MOS	III	12 19 11 59.7–.95	37.92N	142.63E	27	5.6s,5.3b		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ10.00000°,λ-34.00000°. NP2:ϕ_s236.00000°,δ84.00000°,λ-98.00000°. $M_0$1.78000×10^{17}						
IDC		Error ellipse: s-maj=12.4km s-min=9.8km az=106.0.						
JMA		Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=136.0.						
GCMT		Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c86; s109,c194; Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.49±.01 $M_{\theta\theta}$0.33±.01; $M_{\phi\phi}$0.15±.01; $M_{r\theta}$0.82±.03; $M_{\theta\phi}$0.08±.01; $M_{\phi r}$0.74±.03; Best double couple: NP1:ϕ_s229.00000°,δ80.00000°,λ-94.00000°. NP2:ϕ_s69.00000°,δ11.00000°,λ-71.00000°. Principal axes: T 1.1120,Plg35.0000°,Azm322.0000°; N 0.1500,Plg4.0000°,Azm230.0000°; P -1.2620,Plg55.0000°,Azm135.0000° $M_0$1.18700×10^{17}						
ISCJB		Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=151.9.						
MOS		Error ellipse: s-maj=6.8km s-min=4.1km az=104.2.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 19 12 13.1–.20**	**35.99N**	**141.12E**	**21–2**	**3.8**		**¶16310840**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 19 14 09.3–.10**	**36.54N**	**140.88E**	**22–2**	**3.7**		**¶602654779**
JMA		Event type fe.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**12 19 16 31.9–.20**	**36.76N**	**141.14E**	**20–3**	**3.9**		**¶602654777**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**12 19 16 57.0–.76**	**39.96N–.07**	**142.43E–.07**	**31**	**4.5b**	**40**	**1-78**
IDC	III	12 19 16 52.0–1.5	39.87N	142.50E	0	4.3,4.2		**¶16461415**
ISCJB	III	12 19 16 54.4–.58	39.76N–.05	142.55E–.10	31	4.3b,4.2		
JMA	III	12 19 16 59.8–.10	39.88N	142.21E	45–2	4.0,4.2		
NEIC	III	12 19 17 03.1–2.2	39.88N	142.44E	89–16	4.7b,4.2		
ISC		Event type se.						
IDC		Error ellipse: s-maj=49.3km s-min=20.3km az=76.0.						
ISCJB		Event type fe. Error ellipse: s-maj=10.8km s-min=6.2km az=166.6.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=20.8km s-min=10.7km az=81.0.						
		(229) Off east coast of Honshu						
ISC	**III**	**12 19 22 44.9–.49**	**37.13N–.04**	**142.33E–.05**	**20–2**	**4.9b**	**283**	**1-154**
NIED	III	12 19 22 00	37.10N	142.30E	14	4.7W		**¶16310841**
JMA	III	12 19 22 41.3–.50	37.10N	142.31E	1–4	4.9		
ISCJB	III	12 19 22 44.6–.17	37.16N–.03	142.25E–.03	24	4.8b		
NEIC	III	12 19 22 45.4–1.8	37.23N	142.20E	17–11	4.9b		
IDC	III	12 19 22 46.0–.52	37.18N	142.28E	25–3	4.6,4.5		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ40.00000°,λ49.00000°. NP2:ϕ_s109.00000°,δ61.00000°,λ119.00000°. $M_0$1.11000×10^{16}						
JMA		Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=5.0km s-min=2.7km az=166.8.						
NEIC		Event type se. Error ellipse: s-maj=5.0km s-min=3.0km az=140.0.						
IDC		Error ellipse: s-maj=11.0km s-min=10.0km az=129.0.						
		(226) Near west coast of eastern Honshu						
JMA	**III**	**12 19 27 06.5**	**37.04N**	**138.64E**	**12–1**	**3.6**		**¶602654762**
JMA		Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s183.00000°,δ86.00000°,λ12.00000°. NP2:ϕ_s92.00000°,δ78.00000°,λ176.00000°. Principal axes: T Plg11.0000°,Azm48.0000°; N Plg77.0000°,Azm199.0000°; P Plg6.0000°						

,Azm317.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**12 19 38 06.7–.54**	**35.87N–.03**	**141.47E–.04**	**24–3**	**4.7b**	**191**	**1-154**
NIED	III	12 19 38 00	36.00N	141.50E	29	4.5W		¶16310842
NEIC	III	12 19 38 05.3–2.1	35.79N	141.40E	14–13	4.8b		
JMA	III	12 19 38 06.2–.20	35.96N	141.53E	26–2	4.4		
IDC	III	12 19 38 08.5–.58	35.84N	141.43E	36–4	4.4,4.4		
ISCJB	III	12 19 38 08.1–.48	35.87N–.02	141.39E–.04	44–4	4.6b,4.4		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ37.00000°,λ-113.00000°. NP2:ϕ_s109.00000°,δ56.00000°,λ-74.00000°. $M_0$5.37000×10^{15}

NEIC Event type se.

JMA Event type fe.

ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**12 19 43 45.0–.45**	**38.08N–.06**	**143.34E–.06**	**19**	**4.7b**	**144**	**2-91**
IDC	III	12 19 43 41.1–.60	38.17N	143.54E	0	4.4,4.2		¶16310843
JMA	III	12 19 43 41.7–.60	38.19N	143.72E	52	4.8,4.2		
ISCJB	III	12 19 43 44.0–.26	38.15N–.04	143.31E–.04	19	4.5b,4.2		
NEIC	III	12 19 43 46.9–2.6	38.24N	143.21E	28–19	4.7b,4.2		

ISC Event type se.

IDC Error ellipse: s-maj=15.8km s-min=12.7km az=149.0.

JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.2km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.5km az=152.3.

NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.5km az=138.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 19 52 56.3–1.5**	**38.9N–.20**	**142.3E–.20**	**35**	**3.9b**	**8**	**1-68**
IDC	III	12 19 52 51.0–2.6	38.90N	142.31E	0	3.9,3.9		¶17194569
ISCJB	III	12 19 52 54.0–1.2	38.9N–.20	142.4E–.20	35	3.9b,3.9		
JMA	III	12 19 52 58.4–.20	38.83N	142.04E	47–2	3.7,3.9		

ISC Event type ke.

IDC Error ellipse: s-maj=107.4km s-min=27.3km az=71.0.

ISCJB Event type fe. Error ellipse: s-maj=29.0km s-min=14.3km az=23.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**12 19 58 59.8–.40**	**37.98N–.05**	**143.00E–.05**	**18**	**4.7b**	**201**	**2-145**
IDC	III	12 19 58 57.1–.50	38.01N	142.95E	0	4.5,4.4		¶602654727
JMA	III	12 19 58 57.9–.90	37.90N	142.85E	0	4.8,4.4		
ISCJB	III	12 19 58 58.8–.20	37.98N–.03	142.91E–.03	18	4.7b,4.4		
NEIC	III	12 19 59 00.1–.49	38.05N	142.83E	15–3	4.8b,4.4		

ISC Event type ke.

IDC Error ellipse: s-maj=14.3km s-min=11.5km az=133.0.

JMA Event type fe. Error ellipse: s-maj=4.4km s-min=7.0km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.1km az=154.1.

NEIC Event type se. Error ellipse: s-maj=5.0km s-min=2.9km az=144.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 20 02 37.4–.10**	**37.41N**	**141.25E**	**24–1**	**3.5**		
								¶602654723

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**12 20 21 36.5–.47**	**37.95N–.05**	**142.28E–.05**	**14**	**4.3b**	**83**	**1-146**
ISCJB	III	12 20 21 34.5–.35	37.87N–.04	142.47E–.04	14	4.2b,4.2s		¶16461491
JMA	III	12 20 21 38.9–.50	37.90N	142.13E	6	4.3,4.2s		
NEIC	III	12 20 21 39.4–.34	37.93N	142.35E	35	4.5b,4.2s		
IDC	III	12 20 21 40.4–2.0	37.95N	142.28E	42–18	4.2,4.1		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.8km az=148.5.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=135.0.

IDC Error ellipse: s-maj=14.5km s-min=11.8km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 20 35 06.5–.48**	**36.44N–.04**	**141.93E–.06**	**19**	**4.3b**	**56**	**1-147**
NIED	III	12 20 35 00	36.50N	141.90E	14	4.2W		¶602655240
ISCJB	III	12 20 35 05.1–.42	36.52N–.04	142.04E–.05	19	4.1b		
JMA	III	12 20 35 06.7–.40	36.52N	141.90E	11–4	4.4		
NEIC	III	12 20 35 07.5–1.2	36.26N	142.07E	37–11	4.4b		
IDC	III	12 20 35 09.2–2.4	36.12N	141.93E	55–21	4.1,3.9		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ21.00000°,λ8.00000°. NP2:ϕ_s77.00000°,δ87.00000°,λ111.00000°. $M_0$2.35000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.2km az=39.3.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=13.7km s-min=10.2km az=106.0.

IDC Error ellipse: s-maj=16.9km s-min=13.5km az=95.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 20 41 26.7–.81**	**37.13N–.04**	**141.38E–.05**	**42–7**	**4.8b**	**233**	**0-155**
NIED	III	12 20 41 00	37.20N	141.40E	47	4.7W		¶16327696
IDC	III	12 20 41 26.9–1.9	37.17N	141.34E	42–17	4.5,4.3		
NEIC	III	12 20 41 27.5–.56	37.13N	141.29E	45–5	4.9b,4.3		
JMA	III	12 20 41 27.2–.10	37.17N	141.38E	41–1	4.7,4.3		
ISCJB	III	12 20 41 27.0–.39	37.12N–.03	141.30E–.03	55–3	4.7b,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ34.00000°,λ29.00000°. NP2:ϕ_s262.00000°,δ74.00000°,λ120.00000°. $M_0$1.19000×10^{16}

NEIC Event type fe. Recorded [3 JMA] in Fukushima.

JMA Event type fe.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 20 56 15.8–.67**	**38.32N–.08**	**142.09E–.09**	**41**	**4.1b**	**62**	**1-89**
ISCJB	III	12 20 56 13.9–.50	38.33N–.06	142.10E–.08	41	4.1b		¶602655209
JMA	III	12 20 56 16.2–.20	38.27N	141.84E	20	4.4		
IDC	III	12 20 56 17.8–2.5	38.32N	141.93E	56–21	4.0,3.9		
NEIC	III	12 20 56 18.8–.73	38.30N	141.88E	67–6	4.3b,3.9		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.5km az=41.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=19.0km s-min=13.4km az=107.0.

NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=124.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 20 59 04.7–1.1**	**38.7N–.10**	**143.4E–.10**	**16**	**3.4b**	**12**	**2-63**
ISCJB	III	12 20 59 02.7–.85	38.72N–.09	143.3E–.10	16	3.5b		¶16477196
IDC	III	12 20 59 02.2–.95	38.72N	143.42E	0	3.7,3.5		
JMA	III	12 20 59 07.3–.20	39.11N	142.67E	9–2	4.2,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=11.8km az=32.9.

IDC Error ellipse: s-maj=24.3km s-min=19.4km az=96.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 01 11.4–.46**	**37.25N–.06**	**141.85E–.05**	**24**	**4.5b,3.6s**	**91**	**1-146**
NIED	III	12 21 01 00	37.30N	141.80E	8	4.3W,3.6s		¶16445743
IDC	III	12 21 01 07.9–.51	37.28N	141.87E	0	4.4,4.3L		
ISCJB	III	12 21 01 09.8–.30	37.23N–.04	141.91E–.04	24	4.3b,3.9s		
NEIC	III	12 21 01 11.2–2.4	37.24N	141.92E	23–17	4.5b,3.9s		
JMA	III	12 21 01 11.4–.20	37.30N	141.80E	23–2	4.4,3.9s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ23.00000°,λ-129.00000°. NP2:ϕ_s63.00000°,δ73.00000°,λ-75.00000°. $M_0$3.35000×10^{15}

IDC Error ellipse: s-maj=15.5km s-min=11.8km az=111.0.

ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=165.5.

NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.7km az=111.0.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 02 34.2–2.1**	**37.23N–.08**	**141.56E–.06**	**12–12**	**4.2b**	**40**	**1-146**
NIED	III	12 21 02 00	37.30N	141.40E	44	4.3W		¶16445747
IDC	III	12 21 02 32.6–.70	37.28N	141.48E	0	4.3,4.1		
NEIC	III	12 21 02 33.5–3.7	37.24N	141.48E	8–22	4.4b,4.1		
JMA	III	12 21 02 39.5–.10	37.28N	141.41E	40–1	4.2,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ38.00000°,λ149.00000°. NP2:ϕ_s1.00000°,δ71.00000°,λ56.00000°. $M_0$2.73000×10^{15}

IDC Error ellipse: s-maj=19.2km s-min=17.1km az=152.0.

NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.9km az=136.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**12 21 05 04.5**	**36.96N**	**138.58E**	**4–1**	**1.6**		
								¶603049652

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 12 25.1–2.2**	**37.21N–.09**	**141.46E–.08**	**13–12**		**15**	**0-57**
IDC	III	12 21 12 23.7–1.5	37.03N	141.94E	0	3.8,3.7		¶17194609
ISCJB	III	12 21 12 26.8–1.4	37.17N–.09	141.56E–.08	33–7	3.7b,3.7		
JMA	III	12 21 12 28.8–.10	37.21N	141.42E	40–1	3.6,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=37.9km s-min=26.5km az=113.0.

ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=10.6km az=14.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 48 08.1–.45**	**39.56N–.03**	**142.73E–.03**	**22–3**	**5.4b,5.3s**	**1036**	**1-162**
NIED	III	12 21 48 00	39.60N	142.90E	8	5.5W,5.3s		¶16310854
JMA	III	12 21 48 03.8–.10	39.58N	142.93E	0	5.6,5.3s		
IDC	III	12 21 48 04.7–.40	39.47N	142.68E	0	5.1,5.1s		
BJI	III	12 21 48 05.8	39.51N	142.77E	28	5.6s,5.4		
ISCJB	III	12 21 48 07.5–.10	39.61N–.02	142.66E–.02	25	5.3s,5.3b		
MOS	III	12 21 48 07.9–1.1	39.69N	142.70E	31	5.7b,5.3s		
NEIC	III	12 21 48 09.6–1.3	39.61N	142.57E	26–9	5.5b,5.3s		
GCMT	III	12 21 48 09.6–.20	39.54N	142.84E	13–0	5.4W,5.3s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ28.00000°,λ-167.00000°. NP2:ϕ_s67.00000°,δ84.00000°,λ-62.00000°. $M_0$1.97000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=11.5km s-min=10.6km az=143.0.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=1.9km az=157.4.

MOS Error ellipse: s-maj=7.9km s-min=5.1km az=90.6.

NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c119; s110,c212; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56±.03 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$0.61±.02; $M_{r\theta}$-1.25±.10; $M_{\theta\phi}$0.80±.02; $M_{\phi r}$-0.55±.06; Best double couple: NP1:ϕ_s64.00000°,δ78.00000°,λ-63.00000°. NP2:ϕ_s177.00000°,δ29.00000°,λ-155.00000°. Principal axes: T 1.7700,Plg28.0000°,Azm133.0000°; N -0.1850,Plg26.0000°,Azm239.0000°; P -1.5850,Plg50.0000°,Azm4.0000° $M_0$1.67800×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**12 21 58 16.5–.39**	**39.04N–.03**	**142.45E–.03**	**28–2**	**5.3s,5.2b**	**1094**	**1-162**
NIED	III	12 21 58 00	39.00N	142.50E	32	5.3W,5.2b		¶16310855
IDC	III	12 21 58 12.4–.35	39.05N	142.38E	0	5.4L,5.0		
JMA	III	12 21 58 13.7–.30	39.03N	142.53E	14–2	5.4,5.0		
BJI	III	12 21 58 13.0	38.97N	142.61E	28	5.5b,5.5s		
MOS	III	12 21 58 14.9–1.1	39.06N	142.52E	31	5.4b,5.0s		
ISCJB	III	12 21 58 16.8–.36	39.03N–.02	142.43E–.02	41–3	5.3s,5.1b		
GCMT	III	12 21 58 18.9–.20	39.13N	142.27E	32–0	5.4W,5.1b		
NEIC	III	12 21 58 18.9–.42	39.03N	142.31E	45–3	5.3s,5.2b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ24.00000°,λ-96.00000°. NP2:ϕ_s175.00000°,δ67.00000°,λ-87.00000°. $M_0$9.94000×10^{16}

IDC Error ellipse: s-maj=9.8km s-min=9.7km az=65.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=7.5km s-min=5.1km az=90.9.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=148.8.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c107; s91,c141; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.05 $M_{\theta\theta}$0.33±.03; $M_{\phi\phi}$0.93±.03; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$1.13±.04; Best double couple: NP1:ϕ_s173.00000°,δ68.00000°,λ-88.00000°. NP2:ϕ_s347.00000°,δ22.00000°,λ-96.00000°. Principal axes: T 1.4330,Plg23.0000°,Azm261.0000°; N 0.3080,Plg2.0000°,Azm352.0000°; P -1.7390,Plg67.0000°,Azm87.0000° $M_0$1.58600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=146.0. Recorded [3 JMA] in Iwate and Miyagi.

(49) Gulf of California

ISC	**III**	**12 21 58 38.0–.69**	**25.24N–.07**	**109.72W–.09**	**10**	**4.6b**	**235**	**1-43**
MEX	III	12 21 58 24.4–.72	25.48N	110.40W	5–10	4.4		¶16449545
IDC	III	12 21 58 34.8–1.4	25.21N	109.37W	0	4.4,4.2b		
ISCJB	III	12 21 58 36.8–.46	25.28N–.04	109.76W–.03	10	4.5b,3.6s		
NEIC	III	12 21 58 38.3–.54	25.24N	109.82W	10	4.5b,4.4		

ISC Event type fe.

MEX Error ellipse: s-maj=3.4km s-min=5.4km az=-1.0.

IDC Error ellipse: s-maj=31.4km s-min=11.5km az=122.0.

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.9km az=12.5.

NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.5km az=219.0. Felt at Los Mochis, Sinaloa.

(228) Near east coast of eastern Honshu

ISC	**III**	**12 22 10 17.1–1.5**	**39.02N–.06**	**142.51E–.08**	**47–12**	**4.3b**	**83**	**2-145**
NIED	III	12 22 10 00	39.10N	142.50E	32	4.6W		¶17194615
ISCJB	III	12 22 10 15.0–.83	39.00N–.04	142.54E–.07	43–6	4.2b		
JMA	III	12 22 10 14.0–.30	39.06N	142.45E	20–3	4.7		
IDC	III	12 22 10 18.1–2.2	38.99N	142.50E	55–20	4.2,4.2L		
NEIC	III	12 22 10 18.0–.78	39.00N	142.53E	56–6	4.5b,4.2L		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ32.00000°,λ-76.00000°. NP2:ϕ_s165.00000°,δ59.00000°,λ-98.00000°. $M_0$8.99000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=12.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=14.6km s-min=12.9km az=110.0.

NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.7km az=132.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**12 22 12 00.1–.10**	**36.51N**	**140.96E**	**43–4**	**3.7**		
								¶603049656

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**12 22 12 46.8–.33**	**37.70N–.03**	**141.98E–.03**	**20–1**	**5.9b,5.5s**	**1916**	**1-164**
NIED	III	12 22 12 00	37.60N	142.10E	8	5.8W,5.5s		¶16310858
BJI	III	12 22 12 42.6	37.62N	141.99E	12	6.1s,6.0		
IDC	III	12 22 12 43.5–.27	37.62N	142.01E	0	5.8,5.7		
ISCJB	III	12 22 12 43.7–.75	37.70N–.02	142.00E–.01	9–4	5.8b,5.6s		
JMA	III	12 22 12 44.0–.20	37.61N	142.05E	9–3	6.1,5.6s		
MOS	III	12 22 12 46.3–1.2	37.70N	142.09E	35	6.1b,5.5s		
NEIC	III	12 22 12 46.0–.00	37.46N	142.16E	15	6.1b,5.5s		
NEIC	III	12 22 12 46.3–.08	37.68N	141.89E	16	5.9b,5.8		
GCMT	III	12 22 12 46.3–.10	37.56N	141.99E	15–0	5.9W,5.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ44.00000°,λ-95.00000°. NP2:ϕ_s342.00000°,δ46.00000°,λ-85.00000°. $M_0$5.81000×10^{17}

IDC Error ellipse: s-maj=9.1km s-min=7.6km az=93.0.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.6.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=6.7km s-min=4.4km az=97.8.

NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.39 $M_{\theta\theta}$3.31 $M_{\phi\phi}$2.08 $M_{r\theta}$-1.09 $M_{\theta\phi}$-4.26 $M_{\phi r}$-2.72 Best double couple: NP1:ϕ_s336.00000°,δ55.00000°,λ-56.00000°. NP2:ϕ_s106.00000°,δ47.00000°,λ-129.00000°. Principal axes: T 7.0800,Plg4.0000°,Azm42.0000°; N -0.1700,Plg27.0000°,Azm134.0000°; P -6.9000,Plg62.0000°,Azm303.0000° $M_0$7.00000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=145.0. Recorded [3 JMA] in Fukushima, Ibaraki, Iwate, Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c279; s141,c315;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.86±.01 $M_{\theta\theta}$0.20±.01; $M_{\phi\phi}$0.66±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.20±.02; Best double couple: NP1:ϕ_s159.00000°,δ52.00000°,λ-86.00000°. NP2:ϕ_s333.00000°,δ38.00000°,λ-95.00000°. Principal axes: T 0.8060,Plg7.0000°,Azm246.0000°; N 0.0830,Plg3.0000°,Azm337.0000°; P -0.8890,Plg83.0000°,Azm90.0000° $M_0$0.84700×10^{18}

(228) Near east coast of eastern Honshu

JMA III 12 22 18 43.0 35.83N 140.85E 12–1 2.9
¶603049657
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 12 22 26 31.4–.10 36.50N 140.82E 50–2 3.8
¶603049659
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 27 07.7–3.2 39.24N–.04 142.52E–.05 17–19 4.5b 110 1-145
JMA III 12 22 27 07.9–.20 39.22N 142.49E 27 4.8 **¶16449509**
IDC III 12 22 27 11.8–2.1 39.25N 142.34E 47–19 4.3,4.2
NEIC III 12 22 27 12.1–.57 39.27N 142.34E 49–5 4.6b,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=12.0km az=146.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.1km az=136.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 31 26.7–.34 39.20N–.03 142.38E–.03 28–2 5.5b,5.3s 1400 1-162
NIED III 12 22 31 00 39.20N 142.50E 29 5.2W,5.3s **¶602654615**
JMA III 12 22 31 24.8–.20 39.20N 142.47E 24–2 5.4,5.3s
BJI III 12 22 31 24.0 39.09N 142.28E 27 5.9b,5.5s
ISCJB III 12 22 31 25.5–.67 39.14N–.02 142.38E–.02 31–4 5.4b,5.3s
MOS III 12 22 31 25.9–.86 39.23N 142.34E 35 5.8b,5.1s
NEIC III 12 22 31 27.3–.49 39.18N 142.27E 31–3 5.5b,5.3s
GCMT III 12 22 31 27.3–.20 39.27N 142.34E 21–2 5.3W,5.3s
IDC III 12 22 31 29.1–1.9 39.16N 142.35E 49–17 5.1,5.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ28.00000°,λ177.00000°. NP2:ϕ_s13.00000°,δ89.00000°,λ62.00000°. $M_0$7.30000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=153.8.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=94.6.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=145.0. Recorded [3 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c34; s99,c176; Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.03 $M_{\theta\theta}$-0.24±.02; $M_{\phi\phi}$0.16±.02; $M_{r\theta}$0.28±.05; $M_{\theta\phi}$-0.34±.01; $M_{\phi r}$1.05±.13; Best double couple: NP1:ϕ_s16.00000°,δ88.00000°,λ70.00000°. NP2:ϕ_s282.00000°,δ20.00000°,λ175.00000°. Principal axes:
T 1.1710,Plg43.0000°,Azm267.0000°; N -0.0300,Plg20.0000°,Azm17.0000°
; P -1.1420,Plg40.0000°,Azm124.0000° $M_0$1.15700×10^{17}
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=104.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 34 06.5–1.0 39.19N–.06 142.6E–.10 27 4.4b 29 1-80
IDC III 12 22 34 01.4–1.6 39.20N 142.91E 0 4.5,4.4 **¶16449511**
ISCJB III 12 22 34 04.7–.72 39.17N–.05 142.62E–.07 27 4.3b,4.4
JMA III 12 22 34 06.7–.30 39.22N 142.39E 20–3 4.7,4.4
NEIC III 12 22 34 07.0–.87 39.17N 142.79E 35 4.1b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=40.9km s-min=19.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.0km az=28.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=10.0km az=103.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 36 40.9–.99 39.77N–.04 142.46E–.05 45–8 4.7b 127 1-145
ISCJB III 12 22 36 39.7–.53 39.76N–.03 142.46E–.05 48–3 4.5b **¶16449513**
JMA III 12 22 36 40.8–.20 39.79N 142.34E 44–2 4.6
IDC III 12 22 36 43.0–2.1 39.75N 142.35E 64–19 4.6,4.3
NEIC III 12 22 36 44.3–.84 39.69N 142.35E 78–7 4.6b,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.7km az=29.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=12.6km az=105.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.6km az=128.0.
(228) Near east coast of eastern Honshu
JMA III 12 22 40 37.5–.20 39.20N 142.41E 15–2 3.9
¶602654609
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 42 18.1–2.5 37.07N–.09 141.3E–.20 43–11 19 0-46
IDC III 12 22 42 00.6–7.5 36.50N 142.83E 0 3.8,3.8 **¶603049660**
JMA III 12 22 42 18.8–.10 37.09N 141.18E 46–1 3.8,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=114.3km s-min=72.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 44 28.1–1.5 36.16N–.05 141.13E–.07 14–9 4.3b 66 1-147
JMA III 12 22 44 27.8–.10 36.12N 141.20E 26–2 4.7 **¶16477216**
ISCJB III 12 22 44 28.1–1.0 36.12N–.04 141.18E–.06 26–7 4.2b
NEIC III 12 22 44 32.4–1.3 36.08N 141.06E 49–11 4.1b
IDC III 12 22 44 32.4–2.0 36.10N 141.02E 47–18 4.3,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.8km az=161.9.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.7km az=130.0.
IDC Error ellipse: s-maj=15.5km s-min=13.7km az=115.0.
(228) Near east coast of eastern Honshu
JMA III 12 22 45 34.1–.20 39.14N 142.34E 13–2 4.2
¶603233777
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 50 00.9–.53 35.95N–.05 141.09E–.07 31 4.2b 44 0-147
NIED III 12 22 49 00 36.00N 141.10E 20 4.3W **¶602654599**
IDC III 12 22 49 56.6–.62 36.01N 141.25E 0 4.2,4.1
ISCJB III 12 22 49 59.4–.40 35.96N–.04 141.17E–.06 31 4.1b,4.1
JMA III 12 22 49 59.9–.10 35.97N 141.08E 23–1 4.4,4.1
NEIC III 12 22 50 01.5–.60 36.01N 141.25E 35 4.1b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ67.00000°,λ18.00000°. NP2:ϕ_s154.00000°,δ74.00000°,λ156.00000°. $M_0$2.91000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=15.5km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.8km az=4.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=9.7km az=165.0.
(228) Near east coast of eastern Honshu
JMA III 12 22 50 10.3–.30 39.08N 142.40E 15–2 3.9
¶602654596
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 50 55.8–.49 36.15N–.07 141.78E–.06 23 4.5b 54 1-151
ISCJB III 12 22 50 53.9–.38 36.10N–.05 141.84E–.05 23 4.4b **¶16449525**
IDC III 12 22 50 57.6–5.3 36.22N 141.82E 33–40 4.3,4.3
NEIC III 12 22 50 58.2–1.1 36.16N 141.81E 41–10 4.6b,4.3
JMA III 12 22 51 02.7–.20 36.09N 141.19E 31–3 3.9,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.7km az=171.4.
IDC Error ellipse: s-maj=15.3km s-min=13.1km az=106.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.8km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 12 22 54 15.8–.10 37.34N 141.45E 33–1 3.7
¶602654592
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 22 59 24.7–.85 37.22N–.05 141.47E–.07 46–7 4.1b 67 0-147
NIED III 12 22 59 00 37.30N 141.40E 41 4.4W **¶17194623**
ISCJB III 12 22 59 23.5–.64 37.19N–.04 141.49E–.06 51–5 4.2b
NEIC III 12 22 59 25.7–.58 37.18N 141.45E 57–5 4.2b
JMA III 12 22 59 25.4–.10 37.31N 141.42E 40–1 4.3
IDC III 12 22 59 26.9–2.0 37.22N 141.36E 66–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ10.00000°,λ-27.00000°. NP2:ϕ_s209.00000°,δ86.00000°,λ-99.00000°. $M_0$3.81000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.1km az=177.7.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=5.1km az=98.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=11.5km az=86.0.
(228) Near east coast of eastern Honshu
ISC III 12 23 12 09.8–.89 39.00N–.04 142.51E–.06 32–6 4.3b 57 2-88
NIED III 12 23 12 00 39.10N 142.40E 23 4.2W **¶16449529**
JMA III 12 23 12 08.3–.30 39.07N 142.45E 18–3 4.3
ISCJB III 12 23 12 09.9–.85 39.02N–.04 142.45E–.07 49–7 4.1b
IDC III 12 23 12 09.7–.70 39.00N 142.45E 31–5 4.1,4.1
NEIC III 12 23 12 12.6–.76 39.03N 142.42E 55–6 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ8.00000°,λ27.00000°. NP2:ϕ_s353.00000°,δ86.00000°,λ98.00000°. $M_0$1.94000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=16.2.
IDC Error ellipse: s-maj=15.8km s-min=12.4km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.6km az=125.0.
(228) Near east coast of eastern Honshu
JMA III 12 23 16 25.0–.10 39.09N 142.38E 15–2 4.1
¶603049664
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 12 23 20 40.8–.29 38.03N–.03 142.38E–.03 26–1 5.5s,5.3b 1156 1-163
NIED III 12 23 20 00 38.00N 142.30E 20 5.1W,5.3b **¶16461431**
IDC III 12 23 20 36.7–.40 37.97N 142.36E 0 5.1,5.0
BJI III 12 23 20 36.5 37.95N 142.63E 24 5.7s,5.5b
JMA III 12 23 20 38.0–.30 37.96N 142.32E 3–4 5.3,5.5b
ISCJB III 12 23 20 39.6–.75 37.98N–.02 142.34E–.02 26–5 5.6s,5.2b
MOS III 12 23 20 40.7–.89 38.06N 142.28E 35 5.6b,5.4s
NEIC III 12 23 20 41.0–.23 38.00N 142.28E 24–1 5.6s,5.3b
GCMT III 12 23 20 41.0–.40 38.15N 142.42E 32–0 5.5W,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ34.00000°,λ-74.00000°. NP2:ϕ_s2.00000°,δ57.00000°,λ-101.00000°. $M_0$4.71000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=151.3.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=102.1.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=143.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c54; s65,c87; Duration: 1τ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.84±.10 $M_{\theta\theta}$0.34±.06; $M_{\phi\phi}$1.50±.06; $M_{r\theta}$0.50±.11; $M_{\theta\phi}$0.10±.04; $M_{\phi r}$-0.61±.07; Best double couple: NP1:ϕ_s350.00000°,δ56.00000°,λ-104.00000°. NP2:ϕ_s195.00000°,δ36.00000°,λ-70.00000°. Principal axes:
T 1.6090,Plg10.0000°,Azm90.0000°; N 0.4520,Plg12.0000°,Azm358.0000°
; P -2.0580,Plg74.0000°,Azm220.0000° $M_0$1.83400×10^{17}
(228) Near east coast of eastern Honshu
ISC III 12 23 24 08.2–.68 35.47N–.05 141.05E–.08 33 4.1b 31 0-79
ISCJB III 12 23 24 06.5–.47 35.48N–.04 141.16E–.06 33 4.1b **¶16477224**
JMA III 12 23 24 08.3–.30 35.56N 141.01E 36–2 3.5
NEIC III 12 23 24 10.0–.67 35.41N 140.95E 52–6 4.2b
IDC III 12 23 24 10.3–2.2 35.44N 140.91E 54–22 4.1,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.5km az=178.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.5km az=87.0.
IDC Error ellipse: s-maj=24.5km s-min=13.0km az=88.0.
(228) Near east coast of eastern Honshu
ISC III 12 23 24 48.7–.32 38.02N–.02 141.91E–.03 20–1 6.0b,5.6s 2111 1-161
NIED III 12 23 24 00 38.00N 141.90E 17 5.8W,5.6s **¶17194629**
IDC III 12 23 24 46.3–.36 38.11N 141.81E 0 5.5,5.5
JMA III 12 23 24 46.9–.30 38.01N 141.95E 15–4 6.2,5.5
BJI III 12 23 24 46.9 37.91N 141.67E 21 6.3,6.3s
MOS III 12 23 24 47.4–1.3 38.09N 142.08E 33 6.0b,5.6s
ISCJB III 12 23 24 48.4–.47 38.04N–.01 141.79E–.01 23–3 5.8b,5.7s
NEIC III 12 23 24 48.8–.08 38.05N 141.72E 15 6.1W,6.0b
GCMT III 12 23 24 48.8–.10 38.07N 141.94E 23–0 5.8W,6.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ20.00000°,λ119.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ80.00000°. $M_0$5.06000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=9.5km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=91.4.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=144.1.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=142.0. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}1.02 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-0.88 $M_{r\theta}$0.45 $M_{\theta\phi}$-0.22 $M_{\phi r}$1.54 Best double couple: NP1:ϕ_s194.00000°,δ16.00000°,λ88.00000°. NP2:ϕ_s16.00000°,δ74.00000°,λ90.00000°. Principal axes:
T 1.9200,Plg61.0000°,Azm287.0000°; N -0.0800,Plg0.0000°,Azm196.0000°
; P -1.8400,Plg29.0000°,Azm106.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s195.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s15.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm285.0000°
; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm105.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s106,c199; s118,c249; Duration: 1τ9 Moment tensor: Scale 10^{17}Nm; M_{rr}3.05±.07 $M_{\theta\theta}$-0.71±.04; $M_{\phi\phi}$-2.34±.05; $M_{r\theta}$0.69±.07; $M_{\theta\phi}$-1.27±.03; $M_{\phi r}$4.59±.13; Best double couple: NP1:ϕ_s12.00000°,δ74.00000°,λ81.00000°. NP2:ϕ_s222.00000°,δ18.00000°,λ118.00000°. Principal axes:
T 5.6780,Plg60.0000°,Azm269.0000°; N -0.2690,Plg9.0000°,Azm15.0000°
; P -5.4110,Plg28.0000°,Azm109.0000° $M_0$5.54500×10^{17}
(228) Near east coast of eastern Honshu
ISC III 12 23 31 37.9–.81 36.9N–.10 142.6E–.10 9 4.1b 18 1-146
JMA III 12 23 31 31.4–.20 37.92N 141.97E 29 4.2 **¶17194631**
IDC III 12 23 31 36.5–.75 37.06N 142.44E 0 4.5,4.1
NEIC III 12 23 31 44.4–1.4 37.04N 142.40E 58–12 4.1b,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=21.9km az=99.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=9.8km az=131.0.
(162) South Island
WEL III 12 23 35 56.9–.08 43.49S 172.15E 8–1 2.9L
¶600711333
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
JMA III 12 23 38 44.9–.20 35.89N 140.94E 14–2 3.6
¶602654546
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 12 23 40 48.4–.49 36.63N–.04 141.80E–.04 30–3 5.5s,5.1b 835 1-154
NIED III 12 23 40 00 36.90N 141.80E 29 4.8W,5.1b **¶17194633**
BJI III 12 23 40 44.4 36.44N 141.95E 28 5.6b,5.5s
JMA III 12 23 40 47.2–.30 36.86N 141.84E 4–3 5.0,5.5s
MOS III 12 23 40 47.0–1.1 36.68N 141.82E 35 5.2b,5.5s
ISCJB III 12 23 40 48.7–.55 36.64N–.03 141.70E–.02 42–4 5.5s,5.0b
NEIC III 12 23 40 48.8–1.2 36.62N 141.66E 30–8 5.2b,5.0b
IDC III 12 23 40 48.5–.64 36.63N 141.74E 31–4 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s226.00000°,δ51.00000°,λ-98.00000°. $M_0$2.04000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.2km az=101.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=162.5.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=137.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.5km s-min=8.5km az=94.0.

(228) Near east coast of eastern Honshu
ISC III 12 23 43 58.6–1.7 36.80N–.05 141.16E–.07 26–11 4.1b 30 0-147
IDC III 12 23 43 52.1–.81 36.25N 141.32E 0 4.1,3.9 ¶16477232
NEIC III 12 23 43 58.0–2.3 36.26N 141.22E 40–20 4.2b,3.9
JMA III 12 23 43 59.7–.10 36.82N 141.14E 45–2 4.1,3.9
ISCJB III 12 23 43 59.4–.86 36.81N–.05 141.16E–.07 46–6 4.0b,3.9
ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 12 23 50 12.8–.42 35.92N–.05 141.48E–.06 26 4.5b 79 1-147
ISCJB III 12 23 50 11.7–.31 36.00N–.04 141.51E–.05 26 4.5b,4.2s ¶602654525
JMA III 12 23 50 13.7–.20 36.04N 141.45E 37–3 4.6,4.2s
IDC III 12 23 50 14.6–.70 35.97N 141.36E 36–4 4.4,4.3
NEIC III 12 23 50 14.5–.84 35.88N 141.44E 39–8 4.5b,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=136.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=11.4km az=152.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=7.3km az=223.0.
(229) Off east coast of Honshu
ISC III 12 23 58 46.1–.53 37.66N–.07 142.81E–.06 24 4.5b 60 2-145
IDC III 12 23 58 43.2–.63 37.78N 142.75E 0 4.5,4.4 ¶16449540
ISCJB III 12 23 58 44.1–.35 37.60N–.04 142.88E–.05 24 4.4b,4.4
JMA III 12 23 58 46.9–.40 37.88N 142.47E 4 4.5,4.4
NEIC III 12 23 58 47.8–.44 37.68N 142.77E 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=13.3km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=140.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.4km az=133.0.
(228) Near east coast of eastern Honshu
JMA III 13 00 04 51.6–.10 37.25N 141.44E 32–2 4.0
¶603049669
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 13 00 25 30.0–.10 38.33N 141.62E 44–4 3.7
¶602658447
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
JMA III 13 00 25 51.2 36.97N 138.63E 9–1 2.7
¶602658444
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 00 31 40.7–.71 37.2N–.10 143.04E–.10 25 4.0b 26 3-89
IDC III 13 00 31 36.8–.64 37.15N 143.12E 0 4.1,3.9 ¶16449571
ISCJB III 13 00 31 38.6–.54 37.16N–.08 142.99E–.08 25 3.9b,3.9
NEIC III 13 00 31 41.7–.56 37.10N 142.99E 35 4.3b,3.9
JMA III 13 00 31 56.1–.10 38.29N 141.85E 22–4 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.8km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=9.0km az=178.6.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=11.4km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 00 32 56.3–.73 35.99N–.04 140.91E–.05 19–3 4.9b 326 0-159
NIED III 13 00 32 00 35.90N 141.00E 8 4.8W ¶16310872
ISCJB III 13 00 32 52.7–.00 36.03N–.03 140.90E–.03 4–6 6.0s,4.8b
IDC III 13 00 32 52.5–.45 35.90N 140.95E 0 4.6,4.6b
JMA III 13 00 32 53.6–.20 35.89N 141.02E 12–2 4.7,4.6b
MOS III 13 00 32 54.1–.81 36.01N 140.90E 15 5.0b,4.6b
NEIC III 13 00 32 57.2–1.1 36.01N 140.87E 24–7 4.9b,4.6b
GCMT III 13 00 32 57.2–.60 35.87N 140.98E 23–1 5.0W,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ51.00000°,λ-147.00000°. NP2:ϕ_s56.00000°,δ65.00000°,λ-44.00000°. $M_0$1.70000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=163.7.
IDC Error ellipse: s-maj=12.3km s-min=11.6km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.7km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=136.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c18; s54,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.79±.40 $M_{\theta\theta}$0.98±.22; $M_{\phi\phi}$2.81±.22; $M_{r\theta}$-0.49±.36; $M_{\theta\phi}$1.03±.10; $M_{\phi r}$-0.14±.24; Best double couple: NP1:ϕ_s29.00000°,δ48.00000°,λ-83.00000°. NP2:ϕ_s199.00000°,δ43.00000°,λ-98.00000°. Principal axes: T 3.2880,Plg3.0000°,Azm115.0000°; N 0.5530,Plg5.0000°,Azm205.0000°; P -3.8400,Plg84.0000°,Azm357.0000° $M_0$3.56400×10^{16}
(228) Near east coast of eastern Honshu
JMA III 13 00 35 42.6–.20 37.01N 141.39E 30–2 4.2
¶602658862
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 00 41 11.7–.89 36.58N–.04 141.22E–.06 41–8 4.2b 98 1-147
NIED III 13 00 41 00 36.60N 141.10E 41 4.6W ¶17194644
JMA III 13 00 41 10.9–.10 36.60N 141.12E 35–2 4.6
ISCJB III 13 00 41 10.7–.52 36.59N–.03 141.20E–.05 49–4 4.2b
NEIC III 13 00 41 12.1–.54 36.53N 141.24E 48–5 4.4b
IDC III 13 00 41 13.3–1.7 36.56N 141.21E 57–16 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ38.00000°,λ178.00000°. NP2:ϕ_s309.00000°,δ89.00000°,λ52.00000°. $M_0$7.99000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=1.7.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.6km az=112.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=12.2km s-min=9.4km az=77.0.
(229) Off east coast of Honshu
ISC III 13 00 43 17.0–.43 38.04N–.05 142.81E–.04 29–2 5.0b,4.9s 718 2-159
NIED III 13 00 43 00 38.00N 142.80E 44 5.3W,4.9s ¶16449594
BJI III 13 00 43 13.5 38.25N 143.01E 25 5.3b,4.9b
JMA III 13 00 43 14.2–.30 37.98N 142.76E 12 5.1,4.9b
ISCJB III 13 00 43 14.9–1.0 38.02N–.03 142.81E–.02 23–7 4.9b,4.8s
MOS III 13 00 43 17.6–1.1 38.12N 142.72E 41 5.2b,4.8s
NEIC III 13 00 43 18.0–.42 38.04N 142.71E 32–3 5.0b,4.8s
IDC III 13 00 43 20.4–2.1 38.04N 142.74E 58–18 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ6.00000°,λ-18.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ-95.00000°. $M_0$9.08000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=2.8km az=171.8.
MOS Error ellipse: s-maj=7.2km s-min=4.9km az=108.8.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=153.0.
IDC Error ellipse: s-maj=12.7km s-min=8.8km az=110.0.
(229) Off east coast of Honshu
ISC III 13 00 47 03.4–.40 39.11N–.04 143.42E–.03 20–1 5.2s,5.1b 883 2-162
NIED III 13 00 47 00 39.20N 143.50E 14 4.8W,5.1b ¶602658852
IDC III 13 00 47 00.0–.39 39.07N 143.37E 0 4.9,4.8
ISCJB III 13 00 47 00.5–.86 39.12N–.02 143.32E–.02 9–5 5.1s,5.0b
BJI III 13 00 47 01.7 39.17N 143.27E 22 5.3b,5.0b
JMA III 13 00 47 02.2–.50 39.15N 143.54E 39 4.9,5.0b
MOS III 13 00 47 04.2–.89 39.16N 143.26E 34 5.2b,4.6s
NEIC III 13 00 47 06.0–.43 39.08N 143.23E 37–4 5.2s,5.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ37.00000°,λ-94.00000°. NP2:ϕ_s299.00000°,δ53.00000°,λ-87.00000°. $M_0$1.72000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=9.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=157.4.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.7.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.5km az=138.0.
(228) Near east coast of eastern Honshu
JMA III 13 01 02 37.5–.30 38.38N 142.02E 9 3.8
¶603145349
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(163) Cook Strait
WEL III 13 01 15 06.5–.13 41.72S 174.17E 16–1 3.5L
¶600711369
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.4km az=90.0. Felt from Wellington to Marlborough, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
JMA III 13 01 16 18.0–.10 37.21N 141.38E 39–1 3.9
¶16477282
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 01 26 06.7–.38 35.73N–.02 141.74E–.03 24–2 6.2s,5.9b 2070 1-161
NIED III 13 01 26 00 35.80N 142.00E 8 6.2W,5.9b ¶602442301
BJI III 13 01 26 02.2 35.60N 141.80E 23 6.7s,6.5
IDC III 13 01 26 02.6–.32 35.76N 141.77E 0 6.2,6.2s
JMA III 13 01 26 02.0–.20 35.83N 141.97E 11–2 6.6,6.2s
ISCJB III 13 01 26 03.1–.61 35.70N–.02 141.70E–.01 10–3 6.2s,5.9b
NEIC III 13 01 26 04.2–.09 35.72N 141.64E 8 6.4,6.2s
GCMT III 13 01 26 04.2–.10 35.74N 141.81E 12 6.2W,6.2s
NEIC III 13 01 26 07.0–.00 35.74N 142.13E 12 6.2W,6.2s
MOS III 13 01 26 07.5–1.1 35.90N 141.70E 34 6.3s,6.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ43.00000°,λ-36.00000°. NP2:ϕ_s123.00000°,δ66.00000°,λ-127.00000°. $M_0$2.02000×10^{18}
IDC Error ellipse: s-maj=10.6km s-min=8.1km az=95.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=156.3.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=143.0. Felt [III] at Tokyo. Also felt at Hamura, Narita, Warabi and Zama. Recorded [3 JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.37 $M_{\theta\theta}$0.72 $M_{\phi\phi}$0.65 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.68 $M_{\phi r}$-1.24 Best double couple: NP1:ϕ_s33.00000°,δ67.00000°,λ-75.00000°. NP2:ϕ_s118.00000°,δ27.00000°,λ-122.00000°. Principal axes: T 1.7900,Plg21.0000°,Azm51.0000°; N 0.1700,Plg14.0000°,Azm147.0000°; P -1.9600,Plg65.0000°,Azm268.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s175.00000°,δ7.00000°,λ-90.00000°. NP2:ϕ_s355.00000°,δ83.00000°,λ-90.00000°. Principal axes: T Plg38.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm265.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c296; s136,c367;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.59±.01 $M_{\theta\theta}$0.29±.01; $M_{\phi\phi}$1.30±.01; $M_{r\theta}$0.89±.03; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$-1.37±.03; Best double couple: NP1:ϕ_s330.00000°,δ68.00000°,λ-95.00000°. NP2:ϕ_s163.00000°,δ22.00000°,λ-78.00000°. Principal axes: T 2.2090,Plg23.0000°,Azm64.0000°; N 0.0880,Plg5.0000°,Azm332.0000°; P -2.3010,Plg66.0000°,Azm231.0000° $M_0$2.25500×10^{18}
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.23 $M_{\theta\theta}$0.31 $M_{\phi\phi}$0.92 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.47 $M_{\phi r}$-1.06 Best double couple: NP1:ϕ_s348.00000°,δ66.00000°,λ-77.00000°. NP2:ϕ_s139.00000°,δ27.00000°,λ-116.00000°. Principal axes: T 1.5100,Plg19.0000°,Azm68.0000°; N 0.1600,Plg11.0000°,Azm162.0000°; P -1.6700,Plg66.0000°,Azm280.0000° $M_0$1.60000×10^{18}
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=114.3.
(229) Off east coast of Honshu
ISC III 13 01 31 30.6–.43 37.57N–.05 143.84E–.05 35 4.9b 135 2-150
MOS III 13 01 31 26.8–1.1 37.60N 143.91E 22 5.1b ¶16452032
NEIC III 13 01 31 29.1–2.0 37.51N 143.84E 22–13 5.1b
ISCJB III 13 01 31 29.1–.28 37.61N–.03 143.75E–.03 33 5.9s,4.8b
JMA III 13 01 31 30.5–.50 37.57N 143.65E 43 5.4,4.8b
IDC III 13 01 31 32.1–.52 37.44N 143.87E 45–4 5.9s,5.9
ISC Event type se.
MOS Error ellipse: s-maj=9.0km s-min=6.4km az=87.6.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=166.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=145.0.
(229) Off east coast of Honshu
ISC III 13 01 42 53.4–.42 36.96N–.04 143.01E–.04 24–2 5.5b 1200 2-157
ISCJB III 13 01 42 49.6–1.0 36.93N–.02 142.93E–.02 6–6 5.8s,5.3b ¶16310878
BJI III 13 01 42 51.5 37.00N 142.90E 22 5.9b,5.9s
GCMT III 13 01 42 51.2–.40 37.10N 143.24E 20–1 5.2W,5.9s
NEIC III 13 01 42 51.2–1.5 36.91N 142.90E 7–9 5.5b,5.9s
JMA III 13 01 42 52.9–.20 36.91N 142.93E 41 5.5,5.9s
MOS III 13 01 42 53.0–.89 37.05N 142.89E 26 5.6b,5.9s
IDC III 13 01 42 55.0–.53 36.91N 142.99E 35–3 5.1,5.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=165.3.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s4,c5; s72,c118; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.07 $M_{\theta\theta}$0.29±.04; $M_{\phi\phi}$0.42±.04; $M_{r\theta}$0.22±.07; $M_{\theta\phi}$0.41±.02; $M_{\phi r}$-0.37±.07; Best double couple: NP1:ϕ_s16.00000°,δ56.00000°,λ-121.00000°. NP2:ϕ_s243.00000°,δ45.00000°,λ-53.00000°. Principal axes: T 0.7830,Plg6.0000°,Azm128.0000°; N 0.1370,Plg25.0000°,Azm35.0000°; P -0.9200,Plg64.0000°,Azm230.0000° $M_0$0.85200×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.3km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=4.2km az=106.9.
IDC Error ellipse: s-maj=11.2km s-min=9.7km az=114.0.
(228) Near east coast of eastern Honshu
JMA III 13 01 45 59.0–.10 39.93N 142.24E 15–1 4.2
¶602658790
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 01 52 36.3–.52 37.63N–.07 141.97E–.06 24 4.4b 96 1-146
ISCJB III 13 01 52 34.6–.33 37.62N–.05 142.03E–.05 24 4.3b ¶16453116
MOS III 13 01 52 34.1–.83 37.68N 142.07E 22 4.7b
JMA III 13 01 52 35.1–.30 37.59N 141.98E 12–4 4.7
NEIC III 13 01 52 37.5–1.5 37.64N 141.96E 31–10 4.5b
IDC III 13 01 52 38.6–2.8 37.65N 141.89E 38–23 4.2,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.4km az=144.7.
MOS Error ellipse: s-maj=10.4km s-min=7.4km az=98.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.6km az=139.0.
IDC Error ellipse: s-maj=15.1km s-min=13.6km az=104.0.
(228) Near east coast of eastern Honshu
ISC III 13 01 56 04.8–.62 37.97N–.06 142.56E–.07 14 4.2b 50 2-117
ISCJB III 13 01 56 02.4–.48 37.89N–.05 142.64E–.06 14 4.2b ¶602658763
NEIC III 13 01 56 04.0–2.5 37.91N 142.58E 11–16 4.4b
JMA III 13 01 56 06.0–.70 38.14N 142.45E 19 4.4
IDC III 13 01 56 06.9–1.4 37.87N 142.53E 30–5 4.0,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.2km az=156.1.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.1km az=123.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=34.9km s-min=18.3km az=162.0.
(228) Near east coast of eastern Honshu
JMA III 13 02 04 26.7–.10 38.04N 141.58E 56–4 4.1
¶603049678
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 02 05 06.0–.98 37.68N–.09 141.99E–.08 24 4.0b 13 1-146
IDC III 13 02 05 02.8–1.1 37.48N 142.27E 0 4.2,3.9b ¶602658750
ISCJB III 13 02 05 04.6–.89 37.65N–.07 142.06E–.07 24 4.0b,3.9b
JMA III 13 02 05 06.3–.30 37.60N 141.88E 22–4 4.3,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=24.6km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=8.3km az=4.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 02 13 54.3–.34 36.58N–.05 143.54E–.06 35 4.7b 519 2-153
JMA III 13 02 13 43.7–.30 37.99N 141.93E 32 3.9 **¶602658740**
IDC III 13 02 13 49.0–.47 36.60N 143.63E 0 4.6,4.5
NEIC III 13 02 13 51.0–2.2 36.59N 143.55E 10–14 4.8b,4.5
ISCJB III 13 02 13 52.7–.18 36.61N–.04 143.52E–.03 33 6.6s,4.6b
MOS III 13 02 13 54.1–.89 36.92N 143.51E 31 4.9b,4.6b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=12.1km az=118.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.7km az=165.6.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=102.5.
(228) Near east coast of eastern Honshu
JMA III 13 02 15 19.9–.20 36.78N 141.14E 39–2 3.8
¶602658739
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 02 21 54.2–.46 35.62N–.05 141.79E–.06 22 4.5b 73 1-147
ISCJB III 13 02 21 52.2–.31 35.57N–.03 141.87E–.05 22 4.4b **¶602658734**
JMA III 13 02 21 53.0–.20 35.71N 141.85E 23–2 4.5
NEIC III 13 02 21 55.3–1.9 35.59N 141.83E 30–13 4.5b
IDC III 13 02 21 56.9–2.6 35.63N 141.76E 39–23 4.3,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.5km az=34.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.2km az=74.0.
IDC Error ellipse: s-maj=15.5km s-min=12.6km az=87.0.
(228) Near east coast of eastern Honshu
ISC III 13 02 23 30.4–.46 36.47N–.03 141.97E–.05 19 4.7b 124 1-90
ISCJB III 13 02 23 29.0–.31 36.48N–.02 141.99E–.03 19 5.5s,4.6b **¶16310881**
JMA III 13 02 23 30.5–.30 36.49N 141.91E 23 6.2,4.6b
IDC III 13 02 23 32.4–3.8 36.44N 141.90E 33–29 5.0,5.0s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=137.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=11.9km az=87.0.
(228) Near east coast of eastern Honshu
ISC III 13 02 25 27.4–.57 36.31N–.05 141.67E–.07 26 5.5s,4.6b 34 1-147
IDC III 13 02 25 23.1–.59 36.27N 141.88E 0 5.4,5.4s **¶16453130**
ISCJB III 13 02 25 25.4–.47 36.25N–.05 141.92E–.06 26 5.4s,4.5b
JMA III 13 02 25 26.2–.30 36.34N 141.84E 24 4.6,4.5b
NEIC III 13 02 25 27.9–3.7 36.23N 141.85E 32–25 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=15.9km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.6km az=41.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=9.9km az=126.0.
(228) Near east coast of eastern Honshu
ISC III 13 02 32 36.6–.30 36.79N–.04 141.64E–.04 33 4.9b 720 1-155
NEIC III 13 02 32 34.7–1.7 36.72N 141.57E 18–10 4.9b **¶602658731**
MOS III 13 02 32 34.0–1.0 36.80N 141.60E 24 5.1b
JMA III 13 02 32 35.0–.20 36.76N 141.60E 25–2 5.4
ISCJB III 13 02 32 35.6–.11 36.74N–.03 141.58E–.02 33 4.8b
IDC III 13 02 32 38.2–1.7 36.76N 141.60E 46–16 4.6,4.6L
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=135.0.
MOS Error ellipse: s-maj=7.2km s-min=5.5km az=91.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=160.9.
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=138.0.
(228) Near east coast of eastern Honshu
JMA III 13 02 51 28.2–.20 36.66N 141.08E 38–3 3.6
¶603049682
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 13 02 53 21.8–.50 39.62N–.06 143.48E–.06 11 5.0b 140 2-150
ISCJB III 13 02 53 20.8–.31 39.69N–.03 143.46E–.04 11 4.8b **¶602658709**
JMA III 13 02 53 20.8–.30 39.63N 143.56E 19–4 5.2
MOS III 13 02 53 22.7–1.1 39.54N 143.40E 29 5.1b
NEIC III 13 02 53 23.3–2.2 39.47N 143.27E 22–15 5.1b
IDC III 13 02 53 25.2–4.3 39.50N 143.28E 33–32 4.7,4.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=39.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=87.9.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.0km az=159.0.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=149.0.
(228) Near east coast of eastern Honshu
JMA III 13 02 56 34.6–.10 38.57N 141.76E 46–3 3.8
¶602658706
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 13 02 57 14.8–.89 36.92N–.04 143.34E–.04 26–6 5.3s,5.0b 461 2-160
IDC III 13 02 57 10.5–.36 36.83N 143.43E 0 4.8,4.8 **¶602658701**
ISCJB III 13 02 57 13.8–.14 36.89N–.03 143.27E–.02 27 5.0s,5.0b
NEIC III 13 02 57 13.4–1.8 36.88N 143.30E 15–11 5.1b,5.0b
MOS III 13 02 57 13.3–.98 36.96N 143.32E 23 5.1b,5.0b
GCMT III 13 02 57 13.4–.40 37.03N 143.41E 21–1 5.3W,5.0b
JMA III 13 02 57 14.2–.80 37.00N 143.21E 46 5.0,5.0b
BJI III 13 02 57 17.4 37.24N 142.80E 25 5.5s,5.2
ISC Event type ke.
IDC Error ellipse: s-maj=10.8km s-min=9.8km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.3km az=160.2.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=136.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=93.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s75,c111; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.09 $M_{\theta\theta}$0.39±.05; $M_{\phi\phi}$0.76±.06; $M_{r\theta}$0.00±.10; $M_{\theta\phi}$0.22±.02; $M_{\phi r}$0.02±.10; Best double couple: NP1:ϕ_s205.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_s25.00000°,δ44.00000°,λ-90.00000°. Principal axes: T 0.8720,Plg1.0000°,Azm295.0000°; N 0.2910,Plg0.0000°,Azm205.0000°; P -1.1600,Plg89.0000°,Azm89.0000° $M_0$1.01600×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 03 01 26.9–1.1 36.90N–.05 140.47E–.05 35–3 4.6b 153 0-153
JMA III 13 03 01 22.9 36.75N 140.59E 13–2 4.6 **¶17194678**
IDC III 13 03 01 24.1–.89 37.46N 140.21E 0 4.4,4.3
ISCJB III 13 03 01 28.8–.49 36.93N–.04 140.21E–.06 56–4 4.5b,4.3
MOS III 13 03 01 29.4–1.1 37.08N 140.13E 60 4.8b,4.3
NEIC III 13 03 01 30.0–.99 37.19N 140.14E 48–10 4.6b,4.3
ISC Event type fe.
JMA Event type fe.
IDC Error ellipse: s-maj=27.5km s-min=13.1km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=41.2.
MOS Error ellipse: s-maj=10.8km s-min=8.2km az=68.8.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=6.3km az=176.0. Felt at Nakanojo.
(228) Near east coast of eastern Honshu
ISC III 13 03 07 06.3–1.6 39.38N–.07 142.99E–.07 46–13 4.3b 79 2-144
NIED III 13 03 07 00 37.00N 142.50E 20 5.1W **¶16461571**
JMA III 13 03 07 00.8–.20 39.49N 142.97E 0 4.6
ISCJB III 13 03 07 02.9–.86 39.33N–.04 143.09E–.05 35–6 4.4s,4.3b
NEIC III 13 03 07 03.4–2.1 39.21N 143.01E 28–14 4.5b,4.3b
IDC III 13 03 07 08.1–2.6 39.30N 142.94E 64–22 4.5s,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ38.00000°,λ-54.00000°. NP2:ϕ_s176.00000°,δ60.00000°,λ-114.00000°. $M_0$4.66000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.3km az=40.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.0km az=118.0.
IDC Error ellipse: s-maj=17.5km s-min=14.1km az=141.0.
(229) Off east coast of Honshu
ISC III 13 03 07 42.3–.34 36.97N–.04 142.60E–.05 9 4.8b,4.7s 345 1-151
IDC III 13 03 07 40.7–.46 36.96N 142.62E 0 4.7s,4.7 **¶603049687**
ISCJB III 13 03 07 41.4–.16 37.01N–.03 142.57E–.03 9 4.8b,4.7s
JMA III 13 03 07 42.3–.50 37.02N 142.50E 2 5.4,4.7s
MOS III 13 03 07 43.1–1.1 37.00N 142.55E 23 5.0b,4.6s
NEIC III 13 03 07 44.1–2.0 37.00N 142.54E 17–12 4.9b,4.6s
ISC Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=11.0km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=151.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.4km az=106.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=133.0.
(228) Near east coast of eastern Honshu
JMA III 13 03 09 44.8–.10 35.35N 140.34E 25–2 3.6
¶602658693
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 13 03 09 52.6–.63 38.1N–.10 144.0E–.10 35 4.4b 39 11-150
IDC III 13 03 09 47.5–.74 38.15N 143.92E 0 4.5,4.3 **¶16477235**
ISCJB III 13 03 09 50.7–.42 38.13N–.08 143.92E–.09 33 4.4b,4.3
NEIC III 13 03 09 51.5–5.2 38.17N 143.92E 25–36 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=19.7km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.6km az=157.3.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=128.0. Recorded [3 JMA] in Chiba.
(228) Near east coast of eastern Honshu
ISC III 13 03 22 20.5–1.1 36.54N–.08 141.14E–.10 32 3.8b 16 1-75
IDC III 13 03 22 15.2–1.4 36.49N 141.30E 0 3.9,3.8 **¶16477318**
ISCJB III 13 03 22 18.7–.91 36.49N–.07 141.22E–.08 32 3.8b,3.8
JMA III 13 03 22 21.8–.10 36.56N 141.01E 41–3 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=30.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.8km az=135.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 03 24 48.0–.60 36.79N–.07 143.06E–.07 25 3.8b 38 2-89
IDC III 13 03 24 44.5–.66 36.83N 143.08E 0 4.0,3.9 **¶16477237**
ISCJB III 13 03 24 46.2–.44 36.72N–.05 143.07E–.06 25 3.9b,3.9
NEIC III 13 03 24 49.6–.37 36.85N 143.00E 35 4.4b,3.9
JMA III 13 03 25 09.4–.10 36.67N 141.08E 40–2 3.7,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.3km az=39.1.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.8km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(227) Eastern Honshu
ISC III 13 03 31 09.4–1.1 36.86N–.04 138.54E–.04 8–8 4.0b 34 0-84
NIED III 13 03 31 00 36.80N 138.60E 5 4.3W **¶600542942**
NEIC III 13 03 31 06.1–.65 36.36N 138.92E 10 4.3b
IDC III 13 03 31 08.7–1.1 36.92N 138.52E 0 4.0,3.9
JMA III 13 03 31 09.1 36.83N 138.58E 0 3.7,3.9
ISCJB III 13 03 31 09.2–.41 36.76N–.04 138.59E–.05 24–4 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ74.00000°,λ13.00000°. NP2:ϕ_s101.00000°,δ78.00000°,λ163.00000°. $M_0$3.16000×10^{15}
NEIC Event type fe. Recorded [4 JMA] in Niigata.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ74.00000°,λ-34.00000°. NP2:ϕ_s118.00000°,δ57.00000°,λ-161.00000°. Principal axes: T Plg11.0000°,Azm71.0000°; N Plg53.0000°,Azm176.0000°; P Plg35.0000°,Azm333.0000°
ISCJB Event type fe.
(226) Near west coast of eastern Honshu
ISC III 13 03 32 18.6–.64 37.02N–.03 138.65E–.03 10 4.1b 26 0-92
NIED III 13 03 32 00 37.00N 138.70E 8 4.2W **¶602658886**
IDC III 13 03 32 15.1–.73 37.10N 137.78E 0 4.2,3.9
JMA III 13 03 32 18.9 37.01N 138.67E 9–2 3.8,3.9
ISCJB III 13 03 32 18.1–.39 37.02N–.03 138.66E–.03 10 4.0b,3.9
NEIC III 13 03 32 20.6–.56 37.08N 137.82E 35 4.3b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ65.00000°,λ169.00000°. NP2:ϕ_s46.00000°,δ80.00000°,λ25.00000°. $M_0$1.91000×10^{15}
IDC Error ellipse: s-maj=25.1km s-min=20.7km az=94.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.7km az=152.5.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=15.8km az=123.0.
(229) Off east coast of Honshu
ISC III 13 03 34 09.1–.40 37.58N–.05 142.90E–.05 23–2 4.8b 347 2-151
IDC III 13 03 34 05.5–.42 37.57N 142.88E 0 4.7,4.6 **¶16357280**
JMA III 13 03 34 08.6–.20 37.58N 142.91E 41 4.7,4.6
ISCJB III 13 03 34 08.4–.18 37.60N–.03 142.83E–.03 26 4.7b,4.6
MOS III 13 03 34 09.1–.89 37.85N 142.84E 25 4.9b,4.6
NEIC III 13 03 34 09.7–1.6 37.60N 142.81E 24–11 4.8b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=10.5km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=158.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=99.8.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=141.0. Recorded [3 JMA] in Gumma and Nagano.
(227) Eastern Honshu
JMA III 13 03 34 25.9 36.83N 138.59E 0 3.6
¶602658885
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s276.00000°,δ71.00000°,λ149.00000°. NP2:ϕ_s17.00000°,δ61.00000°,λ22.00000°. Principal axes: T Plg35.0000°,Azm234.0000°; N Plg54.0000°,Azm66.0000°; P Plg6.0000°,Azm328.0000°
(228) Near east coast of eastern Honshu
ISC III 13 03 45 42.3–.48 38.02N–.04 142.70E–.04 26–3 4.8b 415 2-154
IDC III 13 03 45 38.3–.39 38.02N 142.60E 0 4.6,4.6 **¶16357281**
JMA III 13 03 45 40.9–.40 38.20N 142.67E 14 4.8,4.6
ISCJB III 13 03 45 42.0–1.1 38.01N–.03 142.56E–.03 32–8 4.8b,4.6s
NEIC III 13 03 45 42.3–.30 38.05N 142.54E 22–2 4.9b,4.6s
MOS III 13 03 45 42.1–1.0 38.05N 142.52E 33 5.1b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=9.7km az=97.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=137.4.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.2km az=146.0.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=97.3.
(227) Eastern Honshu
JMA III 13 03 47 34.2 36.99N 138.64E 9–1 2.3
¶603049688
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 03 52 43.3–.66 38.88N–.06 141.97E–.08 51 3.9b 27 1-145
ISCJB III 13 03 52 41.5–.54 38.83N–.05 142.11E–.06 51 3.9b **¶17194707**
JMA III 13 03 52 44.3–.10 38.88N 141.88E 59–2 4.0
IDC III 13 03 52 48.7–2.7 38.82N 141.79E 105–24 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.0km az=144.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=15.6km az=84.0.
(228) Near east coast of eastern Honshu
ISC III 13 03 59 16.7–.57 38.93N–.07 143.07E–.07 16 4.2b 50 2-88
IDC III 13 03 59 13.2–.71 38.75N 143.09E 0 4.2,4.1 **¶16461580**
ISCJB III 13 03 59 15.5–.43 39.02N–.05 143.00E–.07 16 4.2b,4.1
NEIC III 13 03 59 17.1–2.6 38.85N 143.16E 22–18 4.5b,4.1
JMA III 13 03 59 45.0–.30 37.71N 141.83E 4–3 4.6,4.1

ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=16.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.0km az=42.2.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 04 01 16.7–.10**	**39.13N**	**142.39E**	**13–1**	**3.8**		
								¶602658655

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 04 02 11.7–.34**	**38.02N–.04**	**142.72E–.04**	**23–2**	**4.9b**	**777**	**2-156**
NIED	III	13 04 02 00	38.00N	142.70E	17	4.8W		**¶16357283**
MOS	III	13 04 02 10.7–.98	38.05N	142.56E	24	5.2b		
JMA	III	13 04 02 10.9–.20	38.02N	142.70E	28	5.0		
ISCJB	III	13 04 02 10.3–.93	38.03N–.02	142.63E–.02	19–6	4.9b,4.4s		
NEIC	III	13 04 02 13.0–1.0	38.03N	142.56E	26–7	4.9b,4.4s		
IDC	III	13 04 02 13.2–.47	38.02N	142.62E	28–3	4.7,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ16.00000°,λ-171.00000°. NP2:ϕ_s170.00000°,δ88.00000°,λ-74.00000°. $M_0$1.62000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=150.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=137.0.
IDC Error ellipse: s-maj=11.0km s-min=9.3km az=120.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 04 12 54.6–.28**	**35.68N–.04**	**141.76E–.04**	**22**	**5.0b,4.8s**	**768**	**1-154**
NIED	III	13 04 12 00	35.80N	142.00E	26	5.0W,4.8s		**¶16424473**
IDC	III	13 04 12 50.9–.40	35.66N	141.92E	0	4.7,4.6		
JMA	III	13 04 12 52.5–.20	35.81N	141.98E	42–4	5.1,4.6		
ISCJB	III	13 04 12 53.1–.11	35.66N–.02	141.77E–.02	22	4.9b,4.8s		
MOS	III	13 04 12 54.0–.90	35.68N	141.81E	28	5.2b,4.8s		
BJI	III	13 04 12 54.0	35.65N	141.60E	27	5.3b,5.0s		
NEIC	III	13 04 12 56.7–.62	35.67N	141.72E	36–5	5.0b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ44.00000°,λ101.00000°. NP2:ϕ_s172.00000°,δ47.00000°,λ80.00000°. $M_0$3.77000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=9.5km az=93.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=161.2.
MOS Error ellipse: s-maj=6.9km s-min=5.1km az=107.3.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 04 22 24.1–.66**	**37.5N–.10**	**141.99E–.08**	**24**	**4.0b**	**39**	**1-146**
IDC	III	13 04 22 20.8–.74	37.57N	142.01E	0	4.1,3.9		**¶16477339**
JMA	III	13 04 22 22.2–.40	37.56N	142.00E	7–4	4.4,3.9		
ISCJB	III	13 04 22 22.0–.55	37.46N–.09	142.03E–.07	24	4.0b,3.9		
NEIC	III	13 04 22 24.4–3.5	37.52N	141.97E	26–24	4.3b,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=19.1km az=121.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=7.8km az=163.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.8km az=83.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 04 23 21.0–.10**	**36.59N**	**141.08E**	**34–4**	**3.8**		
								¶17194711

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**13 04 23 23.3–.49**	**38.21N–.04**	**143.08E–.03**	**27–3**	**5.2b,4.8s**	**1113**	**2-159**
IDC	III	13 04 23 19.3–.36	38.17N	143.08E	0	5.0,5.0		**¶600543005**
BJI	III	13 04 23 19.4	38.23N	143.25E	24	5.3b,4.9b		
ISCJB	III	13 04 23 19.3–1.0	38.19N–.02	143.01E–.02	8–6	5.2b,4.8s		
MOS	III	13 04 23 21.3–.86	38.36N	142.98E	18	5.4b,4.7s		
JMA	III	13 04 23 22.1–.50	38.13N	143.08E	23	5.3,4.7s		
GCMT	III	13 04 23 23.7–.40	38.24N	143.12E	28–1	5.1W,4.7s		
NEIC	III	13 04 23 23.7–.92	38.19N	142.97E	27–6	5.2b,4.7s		

ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=9.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.2km az=166.0.
MOS Error ellipse: s-maj=5.5km s-min=3.8km az=99.6.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c23; s64,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.86±.58 $M_{\theta\theta}$-5.88±.32; $M_{\phi\phi}$1.02±.32; $M_{r\theta}$-0.79±.39; $M_{\theta\phi}$1.82±.19; $M_{\phi r}$0.41±.64; Best double couple: NP1:ϕ_s287.00000°,δ50.00000°,λ95.00000°. NP2:ϕ_s100.00000°,δ41.00000°,λ85.00000°. Principal axes: T 4.9400,Plg84.0000°,Azm232.0000°; N 1.4580,Plg3.0000°,Azm104.0000°; P -6.3980,Plg4.0000°,Azm14.0000° $M_0$5.66900×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.0km az=139.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 04 29 41.7–.84**	**37.1N–.20**	**141.7E–.10**	**35**	**3.9b**	**13**	**1-90**
ISCJB	III	13 04 29 40.1–.70	37.1N–.10	141.77E–.09	35	3.9b		**¶602658619**
IDC	III	13 04 29 41.9–.96	36.99N	142.16E	30–5	4.0,3.8		
JMA	III	13 04 29 43.3–.10	36.51N	140.45E	26–2	3.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=20.0km s-min=9.6km az=172.8.
IDC Error ellipse: s-maj=41.6km s-min=18.8km az=119.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 04 36 14.7–.30**	**35.30N–.03**	**141.06E–.04**	**33**	**4.9b,4.8s**	**719**	**0-152**
NIED	III	13 04 36 00	35.20N	141.40E	20	5.0W,4.8s		**¶16357285**
BJI	III	13 04 36 06.8	35.20N	141.61E	24	5.2b,5.1s		
JMA	III	13 04 36 11.4–.40	35.23N	141.44E	27	4.9,5.1s		
GCMT	III	13 04 36 13.4–.50	35.28N	141.39E	32–1	5.1W,5.1s		
ISCJB	III	13 04 36 13.4–.12	35.21N–.03	141.02E–.02	33	5.0s,4.9b		
NEIC	III	13 04 36 13.3–1.6	35.21N	140.97E	22–11	5.0b,4.9b		
MOS	III	13 04 36 13.2–.95	35.21N	140.98E	33	5.1b,4.9b		
IDC	III	13 04 36 16.5–1.4	35.24N	141.14E	48–14	4.7,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s359.00000°,δ73.00000°,λ93.00000°. $M_0$3.08000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s62,c79; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.51±.43 $M_{\theta\theta}$-0.94±.25; $M_{\phi\phi}$-4.56±.25; $M_{r\theta}$-0.72±.35; $M_{\theta\phi}$1.10±.15; $M_{\phi r}$2.74±.26; Best double couple: NP1:ϕ_s345.00000°,δ59.00000°,λ90.00000°. NP2:ϕ_s164.00000°,δ31.00000°,λ89.00000°. Principal axes: T 6.2330,Plg76.0000°,Azm256.0000°; N -0.6370,Plg0.0000°,Azm165.0000°; P -5.5920,Plg14.0000°,Azm74.0000° $M_0$5.91300×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=162.1.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.5km az=125.0.
MOS Error ellipse: s-maj=9.4km s-min=5.9km az=87.2.
IDC Error ellipse: s-maj=14.9km s-min=9.4km az=98.0.

(227) Eastern Honshu

JMA	**III**	**13 04 49 33.0**	**39.30N**	**140.88E**	**10–1**	**3.0**		
								¶603049694

JMA Event type fe.

(227) Eastern Honshu

JMA	**III**	**13 04 55 03.0**	**36.97N**	**138.58E**	**7–1**	**2.3**		
								¶602658569

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 00 24.4–.42**	**36.18N–.04**	**141.84E–.06**	**20–3**	**4.7b**	**148**	**1-152**
NIED	III	13 05 00 00	36.20N	141.80E	14	4.3W		**¶16442348**
MOS	III	13 05 00 22.6–.89	36.21N	141.82E	22	4.9b		
ISCJB	III	13 05 00 22.0–1.2	36.18N–.03	141.91E–.06	18–8	4.6b		
JMA	III	13 05 00 23.7–.20	36.25N	141.81E	19–4	4.5		
IDC	III	13 05 00 25.9–.56	36.19N	141.75E	29–3	4.3,4.3		
NEIC	III	13 05 00 26.6–.26	36.16N	141.76E	35	4.8b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ36.00000°,λ75.00000°. NP2:ϕ_s357.00000°,δ56.00000°,λ101.00000°. $M_0$3.37000×10^{15}
MOS Error ellipse: s-maj=11.4km s-min=6.6km az=125.2.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=5.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=12.3km az=107.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.4km az=117.0.

(502) Arkansas

ISC	**III**	**13 05 07 39.1–1.3**	**35.31N–.02**	**92.37W–.04**	**6–11**		**43**	**1-5**
NEIC	III	13 05 07 39.0	35.31N	92.31W	5	2.5		**¶16477249**

ISC Event type fe.
NEIC Event type fe. Felt at Conway, Edgemont and Greenbrier. After CERI.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 09 55.2–.71**	**36.45N–.05**	**141.23E–.07**	**43–7**	**4.0b**	**41**	**1-147**
NIED	III	13 05 09 00	36.50N	141.10E	44	4.4W		**¶16442349**
ISCJB	III	13 05 09 53.2–.74	36.43N–.03	141.26E–.06	44–7	3.9b		
NEIC	III	13 05 09 54.2–.47	36.36N	141.31E	35	4.0b		
JMA	III	13 05 09 54.5–.10	36.46N	141.08E	39–3	4.1		
IDC	III	13 05 09 55.5–.73	36.38N	141.22E	47–7	4.0,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ31.00000°,λ-23.00000°. NP2:ϕ_s210.00000°,δ79.00000°,λ-119.00000°. $M_0$4.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.4km az=169.8.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=8.8km az=50.0.
JMA Event type fe.
IDC Error ellipse: s-maj=16.6km s-min=9.8km az=105.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 05 21 34.6–.20**	**39.49N**	**142.55E**	**17–3**	**4.0**		
								¶602658550

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 05 22 50.8–.20**	**35.32N**	**140.37E**	**27–2**	**3.3**		
								¶603049696

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 05 26 59.1–.20**	**39.33N**	**142.61E**	**16–3**	**4.0**		
								¶602658546

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 36 48.1–1.1**	**38.99N–.08**	**141.94E–.09**	**67–7**	**4.2b**	**44**	**1-89**
NIED	III	13 05 36 00	39.00N	142.00E	41	4.2W		**¶600543100**
JMA	III	13 05 36 46.5–.20	38.98N	141.97E	51–2	4.2		
ISCJB	III	13 05 36 46.1–1.0	38.99N–.06	142.0E–.10	65–6	4.1b		
NEIC	III	13 05 36 47.3–.80	38.91N	142.10E	67–6	4.6b		
IDC	III	13 05 36 47.9–1.2	38.94N	142.01E	70–6	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ8.00000°,λ171.00000°. NP2:ϕ_s341.00000°,δ89.00000°,λ82.00000°. $M_0$2.03000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=9.1km az=25.1.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.7km az=121.0.
IDC Error ellipse: s-maj=21.0km s-min=19.1km az=117.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 37 58.3–.56**	**36.39N–.05**	**141.21E–.07**	**32**	**4.2b**	**47**	**1-147**
NIED	III	13 05 37 00	36.40N	141.10E	29	4.1W		**¶16445762**
ISCJB	III	13 05 37 56.5–.41	36.40N–.04	141.27E–.05	32	4.1b		
JMA	III	13 05 37 58.4–.10	36.43N	141.12E	36–4	4.1		
IDC	III	13 05 37 58.3–.83	36.37N	141.26E	33–5	4.1,4.0		
NEIC	III	13 05 37 59.9–.83	36.36N	141.22E	46–7	4.5b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ9.00000°,λ-49.00000°. NP2:ϕ_s228.00000°,δ84.00000°,λ-96.00000°. $M_0$1.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=166.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.0km s-min=14.4km az=88.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.1km az=115.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 42 48.7–.48**	**37.27N–.05**	**141.97E–.06**	**24**	**4.3b**	**60**	**1-90**
NIED	III	13 05 42 00	37.30N	141.80E	38	4.4W		**¶600543102**
ISCJB	III	13 05 42 46.5–.33	37.25N–.03	142.07E–.05	24	4.2b,3.7s		
NEIC	III	13 05 42 49.6–1.4	37.29N	142.02E	30–10	4.6b,3.7s		
IDC	III	13 05 42 50.2–.64	37.30N	141.99E	33–4	4.2,4.1		
JMA	III	13 05 42 51.0–.20	37.32N	141.78E	14–3	4.3,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ23.00000°,λ169.00000°. NP2:ϕ_s271.00000°,δ86.00000°,λ67.00000°. $M_0$4.85000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=33.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=114.0.
IDC Error ellipse: s-maj=13.8km s-min=10.6km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 05 46 55.1–.20**	**36.76N**	**141.16E**	**38–2**	**3.5**		
								¶602658532

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 47 39.4–.52**	**39.54N–.04**	**142.78E–.04**	**19–1**	**4.8b**	**275**	**1-149**
NIED	III	13 05 47 00	39.50N	142.80E	8	4.6W		**¶602658528**
JMA	III	13 05 47 38.0–.20	39.55N	142.75E	8–2	4.7		
IDC	III	13 05 47 39.9–.71	39.45N	142.75E	21–3	4.6,4.6		
ISCJB	III	13 05 47 39.3–.96	39.57N–.03	142.74E–.03	22–6	4.7b,4.2s		
MOS	III	13 05 47 40.0–.87	39.71N	142.64E	24	5.1b,4.2s		
NEIC	III	13 05 47 43.2–.22	39.66N	142.59E	35	4.9b,4.2s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ-179.00000°. NP2:ϕ_s57.00000°,δ90.00000°,λ-66.00000°. $M_0$8.09000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=10.9km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=142.0.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=96.8.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.1km az=153.0.

(229) Off east coast of Honshu

ISC	**III**	**13 05 50 51.5–.79**	**37.40N–.05**	**142.38E–.06**	**14–4**	**4.8b**	**242**	**1-146**
NIED	III	13 05 50 00	37.40N	142.20E	5	4.6W		**¶16310902**
ISCJB	III	13 05 50 49.1–1.4	37.43N–.03	142.37E–.05	6–9	4.7b		
JMA	III	13 05 50 52.0–.60	37.42N	142.17E	10–4	4.7		
IDC	III	13 05 50 54.2–4.3	37.39N	142.37E	31–31	4.6,4.5		
NEIC	III	13 05 50 54.4–1.5	37.44N	142.34E	31–10	4.8b,4.5		
MOS	III	13 05 50 54.6–1.0	37.77N	142.32E	32	5.1b,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ6.00000°,λ179.00000°. NP2:ϕ_s27.00000°,δ90.00000°,λ84.00000°. $M_0$8.19000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=30.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=119.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.4km az=131.0.
MOS Error ellipse: s-maj=8.7km s-min=5.1km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 05 55 05.8–.38**	**38.33N–.04**	**142.31E–.04**	**27–2**	**4.9b,4.2s**	**796**	**2-148**
NIED	III	13 05 55 00	38.30N	142.20E	26	4.5W,4.2s		**¶16310904**
ISCJB	III	13 05 55 04.1–1.2	38.35N–.03	142.17E–.03	20–8	4.8b,4.5s		
JMA	III	13 05 55 05.1–.20	38.29N	142.25E	38	4.9,4.5s		
MOS	III	13 05 55 06.3–.76	38.56N	142.10E	30	5.0b,4.5s		
NEIC	III	13 05 55 08.8–.41	38.34N	142.09E	45–3	4.9b,4.5s		
IDC	III	13 05 55 09.1–1.9	38.34N	142.15E	51–17	4.7,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ44.00000°,λ-63.00000°. NP2:ϕ_s14.00000°,δ52.00000°,λ-114.00000°. $M_0$7.46000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=153.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=93.5.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=142.0.
IDC Error ellipse: s-maj=11.8km s-min=10.3km az=128.0.

(228) Near east coast of eastern Honshu

ISC III 13 05 57 48.9–.86 39.67N–.06 142.93E–.08 34–2 4.4b,3.8s 50 2-82
NEIC III 13 05 57 45.9–3.3 39.69N 143.07E 18–20 4.5b,3.8s **¶16445764**
JMA III 13 05 57 47.7–.50 39.66N 142.73E 12–5 4.4,3.8s
ISCJB III 13 05 57 47.8–1.1 39.67N–.04 142.93E–.07 42–8 4.2b,3.8s
IDC III 13 05 57 48.8–1.1 39.65N 142.97E 35–5 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=7.4km az=112.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.1km az=26.1.
IDC Error ellipse: s-maj=33.9km s-min=18.1km az=75.0.
(228) Near east coast of eastern Honshu
ISC III 13 05 59 54.6–.44 37.04N–.03 141.38E–.04 43–3 4.8b 776 0-152
NIED III 13 05 59 00 37.00N 141.40E 53 4.6W **¶16310905**
IDC III 13 05 59 54.7–.50 37.05N 141.35E 44–4 4.7,4.6
MOS III 13 05 59 54.9–.83 37.36N 141.23E 43 5.1b,4.6
ISCJB III 13 05 59 54.8–.35 37.06N–.02 141.29E–.03 53–3 4.8b,3.7s
JMA III 13 05 59 54.2–.20 37.04N 141.38E 43–2 4.7,3.7s
NEIC III 13 05 59 55.9–.43 37.07N 141.26E 50–3 4.9b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ44.00000°,λ-103.00000°. NP2:ϕ_s198.00000°,δ48.00000°,λ-78.00000°. $M_0$9.92000×10^{15}
IDC Error ellipse: s-maj=11.1km s-min=9.5km az=117.0.
MOS Error ellipse: s-maj=6.7km s-min=4.8km az=90.9.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=44.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=149.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
JMA III 13 06 13 48.3–.10 36.46N 140.95E 36–5 3.7
¶602658397
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(230) Near south coast of eastern Honshu
ISC III 13 06 14 12.6–.88 35.45N–.05 139.87E–.05 10 3.6b 11 0-75
IDC III 13 06 14 10.9–.93 34.64N 141.59E 0 3.8,3.6 **¶600543153**
JMA III 13 06 14 12.4–.20 35.52N 139.88E 23–3 3.1,3.6
ISCJB III 13 06 14 12.8–.65 35.53N–.05 139.84E–.05 10 3.5b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 06 19 09.7–.84 40.10N–.05 142.20E–.05 49–7 4.7b 246 1-146
NIED III 13 06 19 00 40.10N 142.20E 47 4.5W **¶602658391**
MOS III 13 06 19 08.6–1.0 40.15N 142.16E 50 5.0b
JMA III 13 06 19 09.9–.10 40.09N 142.17E 44–2 4.3
ISCJB III 13 06 19 09.5–.52 40.13N–.04 142.13E–.05 57–3 4.6b,3.7s
NEIC III 13 06 19 11.8–.59 40.07N 142.15E 68–5 4.6b,3.7s
IDC III 13 06 19 12.2–2.0 40.03N 142.15E 74–17 4.5,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ96.00000°. $M_0$5.33000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=103.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.4km az=41.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.8km az=134.0. Recorded [3 JMA] in Aomori.
IDC Error ellipse: s-maj=13.3km s-min=11.7km az=124.0.
(228) Near east coast of eastern Honshu
ISC III 13 06 22 32.6–1.4 36.09N–.05 141.4E–.10 26 3.8b 14 1-70
NIED III 13 06 22 00 36.10N 141.20E 29 3.7W **¶602658381**
IDC III 13 06 22 25.3–1.6 36.46N 142.12E 0 3.9L,3.8
ISCJB III 13 06 22 30.1–1.0 36.09N–.05 141.54E–.10 26 3.8b,3.5s
JMA III 13 06 22 34.9–.30 36.07N 141.16E 32–5 3.8,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ15.00000°,λ-81.00000°. NP2:ϕ_s9.00000°,δ76.00000°,λ-92.00000°. $M_0$3.93000×10^{14}
IDC Error ellipse: s-maj=54.5km s-min=21.5km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.1km az=4.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 06 27 21.9–.91 38.14N–.08 142.03E–.08 30 3.7b 15 1-146
IDC III 13 06 27 17.5–.81 38.33N 141.91E 0 3.8,3.6 **¶17194765**
ISCJB III 13 06 27 20.3–.78 38.18N–.09 142.13E–.07 30 3.6b,3.6
JMA III 13 06 27 27.2–.20 38.12N 141.72E 37 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=21.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=8.2km az=175.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 06 29 13.9–1.3 36.58N–.03 141.20E–.05 32–7 3.8b 64 1-152
NIED III 13 06 29 00 36.60N 141.30E 32 3.9W **¶602658376**
ISCJB III 13 06 29 13.6–.59 36.54N–.03 141.37E–.05 48–5 3.9b
JMA III 13 06 29 14.6–.10 36.58N 141.25E 33–2 4.3
NEIC III 13 06 29 15.1–.70 36.58N 141.36E 44–6 4.0b
IDC III 13 06 29 16.0–2.5 36.52N 141.22E 52–24 4.1L,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ31.00000°,λ-93.00000°. NP2:ϕ_s237.00000°,δ59.00000°,λ-88.00000°. $M_0$8.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.3km az=170.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.0km az=97.0.
IDC Error ellipse: s-maj=19.1km s-min=13.0km az=68.0.
(228) Near east coast of eastern Honshu
JMA III 13 06 34 47.2–.10 38.42N 141.97E 36–4 3.6
¶602658368
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 06 36 27.8–.88 36.97N–.08 141.82E–.07 19 3.7b 20 1-98
IDC III 13 06 36 24.4–.95 36.91N 141.98E 0 4.3L,3.9 **¶600543190**
ISCJB III 13 06 36 26.8–.75 37.07N–.09 141.90E–.06 19 3.7b,3.9
JMA III 13 06 36 29.7–.20 36.97N 141.69E 23–2 4.3,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=22.0km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=6.9km az=1.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 06 45 31.2–.61 37.16N–.07 143.24E–.10 35 3.8b 31 3-89
IDC III 13 06 45 26.4–.66 37.21N 143.16E 0 4.0,3.9 **¶16452037**
ISCJB III 13 06 45 29.7–.51 37.26N–.05 143.14E–.09 33 3.8b,3.9
NEIC III 13 06 45 31.4–.44 37.21N 143.15E 35 4.3b,3.9
JMA III 13 06 45 57.1–.20 39.31N 142.56E 5–4 4.5,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.3km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.6km az=15.4.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 06 47 30.2–1.3 36.23N–.04 141.39E–.05 32–10 4.2b 63 1-152
NIED III 13 06 47 00 36.30N 141.20E 35 4.4W **¶600543214**
IDC III 13 06 47 25.6–.55 36.18N 141.32E 0 4.3,4.2
NEIC III 13 06 47 27.3–2.4 36.21N 141.42E 12–15 4.5b,4.2
ISCJB III 13 06 47 28.4–.69 36.21N–.03 141.45E–.05 33–7 4.2b,3.5s
JMA III 13 06 47 30.9–.10 36.27N 141.24E 38–3 4.4,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ28.00000°,λ-33.00000°. NP2:ϕ_s252.00000°,δ75.00000°,λ-114.00000°. $M_0$4.50000×10^{15}
IDC Error ellipse: s-maj=17.0km s-min=12.9km az=95.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.5km az=2.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 13 07 04 37.5–.37 38.35N–.03 144.10E–.03 31–2 5.6b,5.1s 1529 3-158
NIED III 13 07 04 00 38.30N 144.20E 5 5.3W,5.1s **¶16310908**
ISCJB III 13 07 04 33.6–.67 38.36N–.02 144.06E–.01 12–4 5.5b,5.1s
JMA III 13 07 04 34.5–.30 38.34N 144.19E 48 5.4,5.1s
MOS III 13 07 04 35.7–.83 38.44N 144.04E 25 5.8b,5.1s
IDC III 13 07 04 38.1–.53 38.27N 144.15E 36–4 5.2,5.1
BJI III 13 07 04 38.4 38.58N 143.48E 20 5.4b,5.3s
NEIC III 13 07 04 38.3–.08 38.33N 144.02E 35 5.7b,5.3s
GCMT III 13 07 04 38.3–.10 38.37N 144.12E 12 5.3W,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ28.00000°,λ-81.00000°. NP2:ϕ_s176.00000°,δ63.00000°,λ-94.00000°. $M_0$1.02000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=168.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.4km s-min=3.6km az=104.9.
IDC Error ellipse: s-maj=9.4km s-min=7.9km az=97.0.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.8km az=148.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c119; s119,c238; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.07±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$1.00±.01; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$0.09±.01; $M_{\phi r}$0.45±.04; Best double couple: NP1:ϕ_s187.00000°,δ57.00000°,λ-89.00000°. NP2:ϕ_s5.00000°,δ33.00000°,λ-92.00000°. Principal axes: T 1.1030,Plg12.0000°,Azm276.0000°; N 0.0650,Plg1.0000°,Azm6.0000° ; P -1.1640,Plg78.0000°,Azm101.0000° $M_0$1.13400×10^{17}
(228) Near east coast of eastern Honshu
ISC III 13 07 07 32.1–.66 35.29N–.05 141.22E–.08 33 4.4b 21 1-148
IDC III 13 07 07 27.0–.68 35.18N 141.20E 0 4.6,4.4b **¶17194779**
JMA III 13 07 07 30.3–.20 35.29N 141.27E 12–3 3.9,4.4b
ISCJB III 13 07 07 30.6–.54 35.29N–.05 141.26E–.08 33 4.3b,4.4b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 07 16 06.1–.78 37.62N–.09 141.69E–.08 60 3.6b 18 1-77
IDC III 13 07 15 58.3–.83 37.62N 141.67E 0 3.8,3.7 **¶600543262**
ISCJB III 13 07 16 04.5–.62 37.58N–.08 141.83E–.07 60 3.6b,3.7
JMA III 13 07 16 06.1–.20 37.62N 141.73E 33–4 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=21.2km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=7.1km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 07 20 03.6–1.8 37.46N–.03 141.23E–.06 1–11 4.0b 47 0-147
NIED III 13 07 20 00 37.40N 141.20E 8 4.1W **¶17194781**
IDC III 13 07 20 03.9–.68 37.56N 141.41E 0 4.2,4.0
JMA III 13 07 20 04.1–.10 37.41N 141.23E 9–1 4.2,4.0
NEIC III 13 07 20 07.3–3.6 37.57N 141.28E 23–26 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ30.00000°,λ-38.00000°. NP2:ϕ_s360.00000°,δ72.00000°,λ-114.00000°. $M_0$1.47000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=16.5km az=112.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=9.5km az=91.0.
(227) Eastern Honshu
JMA III 13 07 20 41.6–.20 36.99N 138.60E 0 1.9
¶602658273
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 07 28 06.5–.58 38.18N–.06 141.98E–.08 30 3.9b 34 1-146
ISCJB III 13 07 28 04.5–.53 38.17N–.05 142.19E–.09 30 3.8b **¶16461591**
JMA III 13 07 28 08.5–.20 38.30N 141.87E 37–5 4.0
IDC III 13 07 28 08.8–.73 38.22N 141.91E 49–7 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.3km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=11.2km az=98.0.
(229) Off east coast of Honshu
ISC III 13 07 37 23.5–.47 36.92N–.06 143.21E–.06 30–2 4.4b 107 2-151
NIED III 13 07 37 00 36.90N 143.00E 5 4.2W **¶16310909**
ISCJB III 13 07 37 20.8–1.5 36.94N–.04 143.20E–.03 21–10 4.3b
NEIC III 13 07 37 21.8–2.5 36.95N 143.26E 17–15 4.6b
JMA III 13 07 37 22.8–.50 36.91N 143.02E 22 4.4
IDC III 13 07 37 24.8–.52 36.82N 143.24E 42–4 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ40.00000°,λ-132.00000°. NP2:ϕ_s243.00000°,δ61.00000°,λ-61.00000°. $M_0$2.64000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.4km az=164.2.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=123.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=11.6km az=165.0.
(228) Near east coast of eastern Honshu
ISC III 13 07 37 59.0–2.6 39.50N–.06 142.81E–.06 6–15 4.6b 61 1-145
IDC III 13 07 37 57.9–.59 39.49N 142.86E 0 4.6,4.4 **¶16449557**
ISCJB III 13 07 37 59.0–1.6 39.50N–.05 142.91E–.06 17–11 4.5b,4.4
JMA III 13 07 38 00.3–.40 39.65N 142.84E 9–4 4.5,4.4
NEIC III 13 07 38 03.2–.30 39.50N 142.81E 35 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=14.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.8km az=38.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.3km az=119.0.
(228) Near east coast of eastern Honshu
JMA III 13 07 45 16.5–.10 37.38N 141.36E 25–1 3.6
¶602658233
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 13 07 56 42.9–.39 39.66N–.03 143.32E–.03 18–1 5.6b,5.5s 1652 2-154
NIED III 13 07 56 00 39.60N 143.50E 14 5.7W,5.5s **¶602658221**
IDC III 13 07 56 39.9–.33 39.64N 143.40E 0 5.4,5.4
JMA III 13 07 56 39.8–.30 39.64N 143.45E 6 5.8,5.4
MOS III 13 07 56 41.4–.91 39.75N 143.27E 16 5.9b,5.7s
BJI III 13 07 56 41.9 39.70N 143.15E 20 6.0,6.0b
ISCJB III 13 07 56 41.1–.66 39.64N–.02 143.24E–.02 14–4 5.6b,5.5s
GCMT III 13 07 56 42.5–.10 39.60N 143.55E 22–0 5.7W,5.5s
NEIC III 13 07 56 42.5–.10 39.64N 143.18E 13 5.7W,5.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ16.00000°,λ62.00000°. NP2:ϕ_s33.00000°,δ76.00000°,λ98.00000°. $M_0$3.81000×10^{17}
IDC Error ellipse: s-maj=10.3km s-min=8.4km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.4km s-min=3.6km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=162.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c188; s130,c274; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.20±.05 $M_{\theta\theta}$-0.09±.03; $M_{\phi\phi}$-2.11±.04; $M_{r\theta}$1.65±.07; $M_{\theta\phi}$-0.55±.02; $M_{\phi r}$3.01±.10; Best double couple: NP1:ϕ_s26.00000°,δ74.00000°,λ97.00000°. NP2:ϕ_s183.00000°,δ18.00000°,λ67.00000°. Principal axes: T 4.1170,Plg61.0000°,Azm306.0000°; N -0.0500,Plg7.0000°,Azm204.0000° ; P -4.0630,Plg28.0000°,Azm111.0000° $M_0$4.09000×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=144.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.95 $M_{\theta\theta}$-0.74 $M_{\phi\phi}$-2.21 $M_{r\theta}$1.41 $M_{\theta\phi}$-1.14 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s208.00000°,δ22.00000°,λ89.00000°. NP2: ϕ_s29.00000°,δ68.00000°,λ90.00000°. Principal axes: T 4.1500,Plg67.0000°,Azm299.0000° ; N -0.1200,Plg0.0000°,Azm209.0000°; P -4.0300,Plg23.0000°,Azm119.0000° $M_0$4.10000×10^{17}
(228) Near east coast of eastern Honshu
JMA III 13 08 10 46.2–.40 38.73N 142.33E 30–5 4.3
¶600543348
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 08 11 33.9–.64 39.17N–.05 142.40E–.08 27 4.1b 40 1-151

IDC III 13 08 11 29.6–.66 39.10N 142.46E 0 4.1,4.0 ¶602658188
ISCJB III 13 08 11 31.8–.46 39.11N–.04 142.46E–.06 27 4.0b,4.0
NEIC III 13 08 11 34.8–.31 39.09N 142.42E 35 4.4b,4.0
JMA III 13 08 11 35.4–.40 39.23N 142.25E 27–5 4.3,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=15.3km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.1km az=2.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.8km az=123.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 08 12 19.1–.81 39.18N–.08 142.91E–.08 16 4.2b 33 1-86
IDC III 13 08 12 15.8–1.2 39.03N 143.04E 0 4.2,4.1 ¶600543354
ISCJB III 13 08 12 18.1–.60 39.19N–.05 142.76E–.08 16 4.1b,4.1
NEIC III 13 08 12 21.5–.71 39.12N 142.93E 35 4.5b,4.1
JMA III 13 08 12 24.4–.30 39.70N 142.71E 22 4.4,4.1
ISC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=23.0km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=7.5km az=169.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=8.9km az=110.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(227) Eastern Honshu

JMA III 13 08 13 37.5 36.21N 137.99E 6–1 2.1
¶603049703
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 13 08 35 20.4–.62 37.09N–.07 142.08E–.06 19 4.0b 37 1-161
ISCJB III 13 08 35 17.8–.49 37.06N–.04 142.20E–.06 19 3.9b ¶600543413
IDC III 13 08 35 17.6–.76 37.08N 142.12E 0 3.9,3.9
JMA III 13 08 35 21.9–.30 37.16N 141.90E 32 4.1,3.9
NEIC III 13 08 35 22.1–.45 37.08N 142.19E 35 4.2b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.4km az=33.6.
IDC Error ellipse: s-maj=18.9km s-min=14.9km az=99.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.5km az=111.0.

(228) Near east coast of eastern Honshu

ISC III 13 08 41 48.5–.48 35.78N–.05 141.80E–.06 22 4.3b 70 2-147
IDC III 13 08 41 45.2–.54 35.74N 141.79E 0 4.4,4.3 ¶16452055
ISCJB III 13 08 41 46.5–.32 35.74N–.04 141.80E–.05 22 4.3b,4.3
NEIC III 13 08 41 48.4–1.7 35.71N 141.79E 22–12 4.5b,4.3
JMA III 13 08 42 16.4–.30 37.63N 141.82E 29 4.4,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.9km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=40.4.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.2km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(229) Off east coast of Honshu

ISC III 13 08 43 23.3–.73 37.19N–.04 142.50E–.04 28–4 5.0b,4.6s 377 1-151
NIED III 13 08 43 00 37.20N 142.50E 20 4.8W,4.6s ¶17194797
BJI III 13 08 43 17.4 37.14N 142.83E 20 5.4b,4.9s
JMA III 13 08 43 20.2–.30 37.16N 142.47E 6 5.0,4.9s
MOS III 13 08 43 21.0–1.1 37.22N 142.46E 21 5.1b,4.9s
ISCJB III 13 08 43 23.4–.62 37.14N–.03 142.42E–.03 38–5 4.9b,4.4s
NEIC III 13 08 43 25.0–.53 37.17N 142.40E 37–5 5.0b,4.4s
IDC III 13 08 43 25.8–2.3 37.12N 142.50E 51–21 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ25.00000°,λ-29.00000°. NP2:ϕ_s302.00000°,δ78.00000°,λ-112.00000°. $M_0$2.00000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=99.6.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=152.5.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=133.0.
IDC Error ellipse: s-maj=13.3km s-min=10.6km az=114.0.

(228) Near east coast of eastern Honshu

JMA III 13 09 05 11.3–.10 36.58N 141.02E 41–3 3.9
¶602658110
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 09 09 13.7–1.5 37.1N–.20 142.17E–.09 35 4.0b 9 1-77
IDC III 13 09 09 16.6–1.5 37.63N 143.98E 0 4.3,4.0 ¶603049705
JMA III 13 09 09 28.2–.10 37.29N 141.36E 43–1 3.9,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=87.4km s-min=25.0km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 13 09 12 58.9–.33 37.76N–.04 143.86E–.04 35 5.0b,4.7s 895 3-156
NIED III 13 09 12 00 37.70N 143.70E 8 5.1W,4.7s ¶17194812
IDC III 13 09 12 53.7–.44 37.69N 143.90E 0 4.9,4.9
NEIC III 13 09 12 56.7–1.9 37.73N 143.81E 14–11 5.1b,4.9
GCMT III 13 09 12 56.7–.20 37.78N 143.92E 16–1 5.2W,4.9
MOS III 13 09 12 57.7–.94 38.11N 143.76E 22 5.2b,4.4s
JMA III 13 09 12 57.4–.40 37.68N 143.73E 54 5.1,4.4s
ISCJB III 13 09 12 57.8–.12 37.79N–.03 143.77E–.02 33 5.0b,4.8s
BJI III 13 09 13 00.8 37.95N 143.19E 25 5.3b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ61.00000°,λ-13.00000°. NP2:ϕ_s149.00000°,δ79.00000°,λ-150.00000°. $M_0$4.24000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=10.6km az=133.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=142.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c56; s101,c177; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.31±.19 $M_{\theta\theta}$-5.08±.15; $M_{\phi\phi}$6.39±.19; $M_{r\theta}$-0.66±.41; $M_{\theta\phi}$2.03±.13; $M_{\phi r}$2.07±.46; Best double couple: NP1:ϕ_s145.00000°,δ89.00000°,λ-161.00000°. NP2:ϕ_s55.00000°,δ71.00000°,λ-1.00000°. Principal axes: T 7.1810,Plg13.0000°,Azm279.0000°; N -1.5050,Plg71.0000°,Azm147.0000°; P -5.6760,Plg14.0000°,Azm12.0000° $M_0$6.42800×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=99.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=1.7km az=173.2.

(232) Western Honshu

JMA III 13 09 14 34.1 35.25N 136.48E 6–1 2.8
¶603049708
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 13 09 25 06.8–.39 39.04N–.03 142.56E–.03 20–3 5.4b,4.9s 1409 1-159
NIED III 13 09 25 00 39.00N 142.70E 5 5.2W,4.9s ¶17194816
IDC III 13 09 25 03.7–.42 39.01N 142.59E 0 5.1,5.1
BJI III 13 09 25 04.9 38.95N 142.38E 18 5.5b,5.3b
JMA III 13 09 25 04.0–.20 39.04N 142.67E 10–2 5.5,5.3b
ISCJB III 13 09 25 04.7–.66 38.97N–.02 142.61E–.02 15–4 5.3b,4.9s
MOS III 13 09 25 06.5–.86 39.19N 142.52E 22 5.6b,4.7s
NEIC III 13 09 25 08.0–1.0 39.02N 142.44E 25–7 5.4b,4.7s
GCMT III 13 09 25 08.0–.10 39.10N 142.56E 12 5.2W,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ40.00000°,λ-117.00000°. NP2:ϕ_s305.00000°,δ55.00000°,λ-69.00000°. $M_0$6.01000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=10.7km az=127.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=163.0.
MOS Error ellipse: s-maj=5.7km s-min=4.0km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=139.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c71; s109,c203; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.18±.10 $M_{\theta\theta}$6.12±.09; $M_{\phi\phi}$0.06±.10; $M_{r\theta}$1.38±.30; $M_{\theta\phi}$-1.76±.08; $M_{\phi r}$0.74±.41; Best double couple: NP1:ϕ_s275.00000°,δ51.00000°,λ-103.00000°. NP2:ϕ_s115.00000°,δ41.00000°,λ-75.00000°. Principal axes: T 6.6970,Plg5.0000°,Azm14.0000°; N -0.2210,Plg10.0000°,Azm283.0000°; P -6.4700,Plg79.0000°,Azm131.0000° $M_0$6.58300×10^{16}

(228) Near east coast of eastern Honshu

JMA III 13 09 29 21.7–.10 35.27N 140.61E 19–3 3.6
¶602658081
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA III 13 09 44 02.2 36.96N 138.60E 5–1 2.2
¶603049711
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 09 45 40.4–.42 36.52N–.05 141.80E–.05 19 4.4b 90 1-152
ISCJB III 13 09 45 38.9–.26 36.52N–.04 141.83E–.03 19 4.5b ¶600543544
JMA III 13 09 45 39.8–.20 36.60N 141.84E 68–4 4.3
NEIC III 13 09 45 42.9–.24 36.53N 141.78E 35 4.7b
IDC III 13 09 45 44.5–2.7 36.46N 141.66E 55–25 4.1,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=171.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=151.0.
IDC Error ellipse: s-maj=17.7km s-min=13.3km az=87.0.

(229) Off east coast of Honshu

ISC III 13 09 47 47.5–2.2 37.2N–.30 142.3E–.10 18 4.2b 14 1-83
IDC III 13 09 47 49.2–1.3 38.90N 143.52E 0 4.3,4.2 ¶17194828
JMA III 13 09 47 50.2–.30 37.58N 142.07E 5–5 4.3,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=38.6km s-min=28.1km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 09 52 31.0–.25 38.86N–.03 142.02E–.03 39–2 5.3b,5.1s 1222 1-165
NIED III 13 09 52 00 38.80N 142.10E 47 5.6W,5.1s ¶16310922
BJI III 13 09 52 28.8 38.75N 141.98E 40 5.7b,5.2
ISCJB III 13 09 52 30.3–.49 38.91N–.02 141.92E–.02 39–4 5.3b,5.1s
JMA III 13 09 52 30.8–.10 38.81N 142.12E 42–2 5.6,5.1s
NEIC III 13 09 52 31.0–.10 38.85N 141.86E 33 5.6W,5.4b
GCMT III 13 09 52 31.0–.10 38.90N 142.20E 50–0 5.6W,5.4b
MOS III 13 09 52 31.6–.86 39.12N 141.87E 42 5.6b,5.2s
IDC III 13 09 52 31.6–1.8 38.80N 141.97E 43–16 5.3,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ97.00000°. $M_0$2.46000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.2km az=162.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=144.0. Recorded [3 JMA] in Iwate. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.98 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-1.84 $M_{r\theta}$0.61 $M_{\theta\phi}$-1.66 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s217.00000°,δ30.00000°,λ99.00000°. NP2:ϕ_s27.00000°,δ60.00000°,λ85.00000°. Principal axes: T 2.3500,Plg75.0000°,Azm284.0000°; N 0.8600,Plg4.0000°,Azm30.0000°; P -3.2100,Plg15.0000°,Azm121.0000° $M_0$2.90000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c197; s116,c246;Duration: 1ŧ5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36±.04 $M_{\theta\theta}$0.07±.03; $M_{\phi\phi}$-2.43±.03; $M_{r\theta}$0.87±.03; $M_{\theta\phi}$-0.51±.03; $M_{\phi r}$1.68±.04; Best double couple: NP1:ϕ_s21.00000°,δ64.00000°,λ100.00000°. NP2:ϕ_s180.00000°,δ28.00000°,λ71.00000°. Principal axes: T 3.0500,Plg69.0000°,Azm311.0000°; N 0.0880,Plg9.0000°,Azm197.0000°; P -3.1400,Plg19.0000°,Azm104.0000° $M_0$3.09500×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=103.6.
IDC Error ellipse: s-maj=12.1km s-min=9.4km az=94.0.

(228) Near east coast of eastern Honshu

JMA III 13 10 08 33.9–.10 37.11N 141.06E 55–1 3.9
¶602657995
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 10 43 11.4–.53 38.17N–.05 141.62E–.07 68 4.3b 70 1-86
IDC III 13 10 43 02.5–.68 38.15N 141.66E 0 4.1,4.0 ¶602657754
JMA III 13 10 43 09.5–.10 38.18N 141.68E 37 4.4,4.0
ISCJB III 13 10 43 09.8–.32 38.18N–.04 141.63E–.05 68 4.2b,4.0
NEIC III 13 10 43 11.3–.59 38.19N 141.63E 65–5 4.8b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=16.5km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=41.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=125.0.

(228) Near east coast of eastern Honshu

ISC III 13 11 07 52.4–.50 36.16N–.07 141.03E–.06 31 4.5b 80 1-148
NIED III 13 11 07 00 36.30N 141.20E 5 4.0W ¶16424458
IDC III 13 11 07 47.8–.69 36.16N 141.07E 0 4.1,3.9
JMA III 13 11 07 50.7–.10 36.29N 141.17E 26–3 4.2,3.9
ISCJB III 13 11 07 50.7–.29 36.08N–.04 141.10E–.04 31 4.4b,3.9
NEIC III 13 11 07 55.2–.85 36.19N 141.04E 51–8 4.8b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ30.00000°,λ-76.00000°. NP2:ϕ_s344.00000°,δ61.00000°,λ-98.00000°. $M_0$1.17000×10^{15}
IDC Error ellipse: s-maj=23.3km s-min=15.5km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.1km az=172.9.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.6km az=126.0.

(228) Near east coast of eastern Honshu

ISC III 13 11 11 48.8–.84 37.4N–.20 141.9E–.10 24 3.7b 13 2-90
NIED III 13 11 11 00 36.10N 141.20E 32 4.5W ¶603049713
IDC III 13 11 11 45.1–.91 37.37N 141.86E 0 4.0,3.8
JMA III 13 11 11 58.2–.20 36.12N 141.21E 25–2 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ26.00000°,λ97.00000°. NP2:ϕ_s168.00000°,δ65.00000°,λ87.00000°. $M_0$6.09000×10^{15}
IDC Error ellipse: s-maj=48.3km s-min=17.9km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 11 15 12.6–.71 36.23N–.05 141.32E–.06 26 3.6b 21 1-91
NIED III 13 11 15 00 36.30N 141.20E 32 3.9W ¶600543691
IDC III 13 11 15 08.4–.73 36.12N 141.41E 0 3.8,3.6
ISCJB III 13 11 15 11.0–.59 36.21N–.04 141.37E–.06 26 3.5b,3.6
JMA III 13 11 15 14.6–.10 36.29N 141.16E 43–3 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ35.00000°,λ-154.00000°. NP2:ϕ_s142.00000°,δ75.00000°,λ-57.00000°. $M_0$7.27000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=16.8km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=6.4km az=7.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 11 19 32.3–4.4 39.53N–.05 142.74E–.05 0–27 4.5b 106 1-145
NIED III 13 11 19 00 39.60N 142.70E 8 4.3W ¶16339502
IDC III 13 11 19 31.4–.64 39.48N 142.74E 0 4.4,4.3
ISCJB III 13 11 19 33.0–1.2 39.52N–.03 142.81E–.03 12–7 4.4b,4.3
JMA III 13 11 19 33.2–.20 39.55N 142.71E 1 4.4,4.3
NEIC III 13 11 19 37.9–.86 39.56N 142.61E 35–7 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ43.00000°,λ-110.00000°. NP2:ϕ_s70.00000°,δ50.00000°,λ-72.00000°. $M_0$2.95000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.4km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=141.0.

(228) Near east coast of eastern Honshu

JMA III 13 11 23 40.4–.20 37.31N 141.70E 28–3 3.8
¶602657656
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 11 27 30.5–.44 38.65N–.05 142.20E–.05 41 4.7b 259 1-145
NIED III 13 11 27 00 38.70N 142.10E 44 4.7W ¶600543732
IDC III 13 11 27 22.8–.55 38.41N 142.23E 0 4.6,4.5
MOS III 13 11 27 30.6–.91 38.94N 141.96E 37 4.8b,4.5
JMA III 13 11 27 30.8–.20 38.65N 142.12E 44–3 4.8,4.5
ISCJB III 13 11 27 30.0–.22 38.70N–.03 142.04E–.03 41 4.7b,4.5
NEIC III 13 11 27 32.6–.64 38.71N 141.94E 51–6 4.7b,4.5

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ18.00000°,λ87.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ91.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=14.6km s-min=12.7km az=111.0.
MOS Error ellipse: s-maj=7.8km s-min=5.1km az=102.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=152.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.0km az=146.0.

(229) Off east coast of Honshu

ISC	**III**	**13 11 37 31.3–.29**	**37.36N–.03**	**142.39E–.03**	**24–1**	**5.7b,5.6s**	**1914**	**1-160**
NIED	III	13 11 37 00	37.40N	142.40E	17	5.7W,5.6s		**¶16310931**
BJI	III	13 11 37 25.8	37.45N	142.65E	23	6.1,6.1s		
JMA	III	13 11 37 27.3–.20	37.40N	142.43E	2–2	6.1,6.1s		
IDC	III	13 11 37 27.2–.35	37.34N	142.49E	0	5.5b,5.5		
GCMT	III	13 11 37 30.4–.10	37.42N	142.34E	15–0	5.8W,5.5		
ISCJB	III	13 11 37 30.5–.07	37.33N–.02	142.40E–.01	26	5.7s,5.7b		
NEIC	III	13 11 37 30.4–.07	37.35N	142.39E	17	5.8,5.8W		
MOS	III	13 11 37 30.8–.89	37.34N	142.39E	30	5.9b,5.6s		
NEIC	III	13 11 37 31.0–.00	37.35N	142.42E	24	5.9b,5.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ50.00000°,λ-129.00000°. NP2:ϕ_s168.00000°,δ53.00000°,λ-53.00000°. $M_0$4.16000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=9.3km az=90.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c253; s133,c308;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.88±.05 $M_{\theta\theta}$1.40±.04; $M_{\phi\phi}$3.48±.04; $M_{r\theta}$4.55±.15; $M_{\theta\phi}$-1.85±.03; $M_{\theta r}$3.72±.14; Best double couple: NP1: ϕ_s196.00000°,δ69.00000°,λ-62.00000°. NP2:ϕ_s320.00000°,δ35.00000°,λ-140.00000°. Principal axes: T 4.9050,Plg19.0000°,Azm265.0000°; N 3.7820,Plg26.0000°,Azm5.0000° ; P -8.6860,Plg57.0000°,Azm144.0000° $M_0$6.79600×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=161.6.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=140.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s70 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.48 $M_{\theta\theta}$1.73 $M_{\phi\phi}$2.75 $M_{r\theta}$2.32 $M_{\theta\phi}$-2.35 $M_{\theta r}$1.73 Best double couple: NP1:ϕ_s297.00000°,δ52.00000°,λ-125.00000°. NP2:ϕ_s165.00000° ,δ50.00000°,λ-54.00000°. Principal axes: T 4.6500,Plg1.0000°,Azm51.0000° ; N 1.2900,Plg27.0000°,Azm320.0000°; P -5.9300,Plg63.0000°,Azm142.0000° $M_0$5.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm295.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000° ,Azm115.0000°
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=109.9.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.98 $M_{\theta\theta}$1.66 $M_{\phi\phi}$2.32 $M_{r\theta}$2.87 $M_{\theta\phi}$-1.87 $M_{\theta r}$0.14 Best double couple: NP1:ϕ_s296.00000° ,δ62.00000°,λ-113.00000°. NP2:ϕ_s158.00000°,δ36.00000°,λ-53.00000°. Principal axes: T 4.3200,Plg13.0000°,Azm42.0000°; N 0.9700,Plg20.0000°,Azm307.0000° ; P -5.2800,Plg64.0000°,Azm163.0000° $M_0$4.90000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**13 11 54 11.4–1.1**	**36.44N–.07**	**141.23E–.08**	**32**	**3.6b**	**15**	**1-60**
IDC	III	13 11 54 06.7–1.1	36.46N	141.20E	0	3.7,3.6		**¶17194854**
ISCJB	III	13 11 54 09.4–.84	36.46N–.05	141.33E–.08	32	3.5b,3.6		
JMA	III	13 11 54 12.8–.10	36.41N	141.11E	49–2	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=35.1km s-min=18.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.2km az=165.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 11 56 26.5–1.5**	**35.94N–.04**	**141.36E–.06**	**33–9**	**4.7b**	**140**	**0-152**
NIED	III	13 11 56 00	36.10N	141.40E	23	4.5W		**¶16310933**
IDC	III	13 11 56 21.5–.46	35.93N	141.30E	0	4.5,4.5L		
JMA	III	13 11 56 25.7–.20	36.07N	141.37E	32–4	4.8,4.5L		
ISCJB	III	13 11 56 26.5–.56	35.93N–.03	141.33E–.05	47–4	4.6b,4.5L		
NEIC	III	13 11 56 27.2–.81	35.90N	141.34E	39–7	4.7b,4.5L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ52.00000°,λ-7.00000°. NP2:ϕ_s57.00000°,δ84.00000°,λ-142.00000°. $M_0$6.36000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=10.7km az=107.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=7.7.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.4km az=115.0. Recorded [3 JMA] in Ibaraki.

(229) Off east coast of Honshu

ISC	**III**	**13 12 02 49.9–.77**	**37.34N–.05**	**142.61E–.05**	**17–4**	**4.5b**	**183**	**1-151**
IDC	III	13 12 02 47.5–.49	37.37N	142.49E	0	4.4,4.4		**¶602657569**
JMA	III	13 12 02 48.7–.30	37.37N	142.54E	20	4.7,4.4		
MOS	III	13 12 02 49.5–1.1	37.45N	142.53E	22	4.9b,4.4		
ISCJB	III	13 12 02 49.3–.26	37.35N–.04	142.54E–.03	22	4.5b,4.4		
NEIC	III	13 12 02 50.7–2.1	37.36N	142.50E	18–13	4.8b,4.4		

ISC Event type ke.
IDC Error ellipse: s-maj=13.4km s-min=11.3km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=94.6.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.2km az=159.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.8km az=133.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 12 29 03.9–.10**	**38.63N**	**142.00E**	**49–3**	**3.6**		
								¶603049716

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 12 31 04.8–1.7**	**36.73N–.09**	**141.05E–.08**	**33–7**	**3.5b**	**17**	**0-91**
IDC	III	13 12 30 59.8–1.0	36.67N	141.06E	0	3.8,3.5		**¶602657482**
ISCJB	III	13 12 31 04.7–1.0	36.74N–.06	141.03E–.10	48–8	3.5b,3.5		
JMA	III	13 12 31 05.9–.10	36.79N	140.98E	46–2	3.5,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=38.3km s-min=25.2km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=8.7km az=30.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 12 40 42.6–.10**	**37.42N**	**141.38E**	**24–1**	**3.8**		
								¶603049718

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 12 44 29.2–.60**	**37.26N–.04**	**141.97E–.06**	**37–2**	**4.7b,4.0s**	**114**	**1-152**
IDC	III	13 12 44 23.6–.57	37.28N	142.01E	0	4.5,4.3		**¶16313302**
ISCJB	III	13 12 44 28.5–.65	37.23N–.03	141.94E–.05	48–6	4.7b,4.1s		
JMA	III	13 12 44 28.4–.20	37.30N	141.86E	26–3	4.8,4.1s		
NEIC	III	13 12 44 30.7–.59	37.26N	141.92E	51–6	4.8b,4.1s		

ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=12.4km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.7km az=125.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

JMA	**III**	**13 12 57 18.9–.10**	**36.93N**	**138.52E**	**2–2**	**3.1**		
								¶603049719

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 13 01 09.3–.58**	**38.30N–.06**	**142.39E–.06**	**24**	**4.4b**	**58**	**1-145**
ISCJB	III	13 13 01 06.8–.41	38.17N–.04	142.50E–.05	24	4.3b,3.9s		**¶16310942**
JMA	III	13 13 01 09.7–.30	38.24N	142.19E	16	4.2,3.9s		
NEIC	III	13 13 01 10.8–.45	38.29N	142.41E	35	4.7b,3.9s		
IDC	III	13 13 01 12.8–2.4	38.24N	142.27E	55–21	4.2,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.5km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.0km az=146.0.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=130.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 13 27 38.4–1.1**	**37.41N–.04**	**141.32E–.07**	**54–10**	**3.7b**	**42**	**1-147**
ISCJB	III	13 13 27 37.9–.68	37.37N–.04	141.33E–.08	65–6	3.6b		**¶600543968**
JMA	III	13 13 27 38.6–.10	37.40N	141.33E	47–1	4.0		
IDC	III	13 13 27 41.7–2.1	37.29N	141.23E	89–20	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.9km az=2.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.0km s-min=11.7km az=86.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 13 39 43.6–.10**	**37.21N**	**141.37E**	**40–1**	**3.6**		
								¶602657388

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 13 43 40.5–.95**	**38.97N–.04**	**142.49E–.05**	**30–6**	**4.6b**	**136**	**1-145**
NIED	III	13 13 43 00	39.00N	142.50E	29	4.7W		**¶16310946**
JMA	III	13 13 43 38.6–.30	38.97N	142.51E	26–3	4.8		
ISCJB	III	13 13 43 39.5–.22	38.93N–.03	142.51E–.03	33	4.5b		
NEIC	III	13 13 43 41.1–1.7	38.97N	142.40E	33–12	4.7b		
IDC	III	13 13 43 42.2–1.7	38.91N	142.39E	46–17	4.3,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s156.00000°,δ56.00000°,λ-87.00000°. $M_0$1.27000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=167.5.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=130.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.3km s-min=10.1km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 01 17.2–.56**	**36.84N–.05**	**141.37E–.07**	**33**	**4.0b**	**44**	**1-147**
IDC	III	13 14 01 12.8–.66	36.99N	141.39E	0	4.1,3.9		**¶600543982**
ISCJB	III	13 14 01 15.5–.42	36.83N–.05	141.43E–.05	33	3.9b,3.9		
NEIC	III	13 14 01 17.2–3.0	36.93N	141.40E	30–21	4.5b,3.9		
JMA	III	13 14 01 21.1–.10	36.93N	141.11E	47–1	3.9,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.6km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.7km az=28.9.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.5km az=78.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 02 11.9–.91**	**39.13N–.08**	**142.83E–.09**	**16**	**4.2b**	**25**	**1-75**
IDC	III	13 14 02 08.6–1.1	39.13N	143.13E	0	4.5,4.5s		**¶16407515**
ISCJB	III	13 14 02 10.2–.64	39.09N–.06	142.85E–.08	16	4.5s,4.0b		
NEIC	III	13 14 02 13.9–.74	39.06N	142.97E	35	4.6b,4.0b		
JMA	III	13 14 02 15.9–.30	39.21N	142.55E	17–4	4.0,4.0b		

ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=24.7km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.6km az=138.5.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=11.0km az=138.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 04 25.6–1.4**	**37.25N–.06**	**141.68E–.08**	**49–12**	**4.2b**	**74**	**1-151**
NIED	III	13 14 04 00	37.30N	141.60E	41	4.3W		**¶16407517**
ISCJB	III	13 14 04 24.0–.80	37.24N–.04	141.70E–.06	51–6	4.2b		
JMA	III	13 14 04 25.3–.20	37.30N	141.59E	35–2	4.1		
NEIC	III	13 14 04 26.9–.64	37.28N	141.64E	59–5	4.6b		
IDC	III	13 14 04 26.5–1.9	37.24N	141.60E	56–18	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ31.00000°,λ116.00000°. NP2:ϕ_s3.00000°,δ63.00000°,λ75.00000°. $M_0$2.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=6.2km az=20.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=127.0.
IDC Error ellipse: s-maj=14.3km s-min=10.0km az=95.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 08 49.6–.54**	**35.23N–.04**	**140.61E–.05**	**21–2**	**3.8b**	**36**	**0-92**
NIED	III	13 14 08 00	35.30N	140.60E	5	4.1W		**¶17194888**
IDC	III	13 14 08 46.3–.64	35.12N	140.62E	0	4.0,3.8		
ISCJB	III	13 14 08 49.1–.50	35.19N–.03	140.62E–.05	30–3	3.7b,3.8		
JMA	III	13 14 08 50.0–.10	35.28N	140.60E	20–2	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ11.00000°,λ-15.00000°. NP2:ϕ_s235.00000°,δ87.00000°,λ-100.00000°. $M_0$1.71000×10^{15}
IDC Error ellipse: s-maj=22.0km s-min=14.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.4km az=2.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**13 14 14 26.2–2.9**	**37.55N–.05**	**142.04E–.06**	**5–18**	**4.5b**	**157**	**1-146**
NIED	III	13 14 14 00	37.50N	142.00E	11	4.2W		**¶16310947**
IDC	III	13 14 14 25.7–.51	37.56N	142.04E	0	4.4,4.3		
ISCJB	III	13 14 14 26.2–.26	37.64N–.04	142.04E–.03	10	4.4b,4.3		
MOS	III	13 14 14 27.5–.99	37.70N	141.99E	19	4.7b,4.3		
NEIC	III	13 14 14 27.6–2.1	37.61N	142.01E	10–13	4.7b,4.3		
JMA	III	13 14 14 27.7–.20	37.53N	142.04E	17–3	4.5,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ37.00000°,λ-86.00000°. NP2:ϕ_s140.00000°,δ53.00000°,λ-93.00000°. $M_0$2.34000×10^{15}
IDC Error ellipse: s-maj=14.2km s-min=12.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.3km az=152.4.
MOS Error ellipse: s-maj=9.6km s-min=6.2km az=95.2.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 26 34.5–2.0**	**38.16N–.04**	**142.04E–.08**	**7–11**	**3.6b**	**28**	**1-78**
IDC	III	13 14 26 33.5–1.0	38.08N	141.87E	0	3.7,3.6		**¶602657370**
JMA	III	13 14 26 37.1–.20	38.23N	142.11E	34	4.1,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=18.7km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**13 14 27 54.7**	**36.97N**	**138.57E**	**6–2**	**3.6**		
								¶602657369

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 28 36.1–.95**	**36.89N–.05**	**141.26E–.08**	**45–8**	**4.4b**	**60**	**0-151**
NIED	III	13 14 28 00	36.90N	141.30E	44	4.5W		**¶602443456**
NEIC	III	13 14 28 35.6–.77	36.90N	141.21E	40–7	4.5b		
ISCJB	III	13 14 28 35.5–.74	36.86N–.04	141.24E–.08	58–5	4.3b		
IDC	III	13 14 28 36.6–2.5	36.85N	141.13E	49–24	4.7L,4.3		
JMA	III	13 14 28 36.4–.10	36.91N	141.26E	43–1	4.4,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ17.00000°,λ68.00000°. NP2:ϕ_s32.00000°,δ75.00000°,λ96.00000°. $M_0$7.10000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=6.6km az=97.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.5km az=0.6.
IDC Error ellipse: s-maj=17.1km s-min=15.1km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 31 56.1–.40**	**39.15N–.03**	**142.89E–.03**	**23–2**	**5.0b,5.0s**	**573**	**1-149**
NIED	III	13 14 31 00	39.20N	142.90E	26	5.1W,5.0s		**¶16310948**
BJI	III	13 14 31 53.6	39.13N	142.93E	26	5.3b,5.0s		
JMA	III	13 14 31 54.2–.40	39.19N	142.94E	4–3	5.2,5.0s		
ISCJB	III	13 14 31 56.3–.76	39.12N–.02	142.86E–.02	33–5	5.0b,4.9s		
MOS	III	13 14 31 56.3–.82	39.36N	142.78E	26	5.4b,5.0s		
NEIC	III	13 14 31 57.1–.25	39.17N	142.73E	27–1	5.0b,5.0s		
GCMT	III	13 14 31 57.1–.30	39.24N	142.97E	35–1	5.2W,5.0s		
IDC	III	13 14 31 59.0–2.0	39.14N	142.82E	42–18	4.7s,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ19.00000°,λ64.00000°. NP2:ϕ_s24.00000°,δ73.00000°,λ99.00000°. $M_0$4.46000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=155.3.

MOS Error ellipse: s-maj=6.3km s-min=3.9km az=105.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=148.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c71; s94,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.36±.27 $M_{\theta\theta}$-0.66±.16; $M_{\phi\phi}$-4.70±.17; $M_{r\theta}$1.77±.17; $M_{\theta\phi}$-1.05±.10; $M_{\phi r}$4.45±.18; Best double couple: NP1:ϕ_s19.00000°,δ66.00000°,λ94.00000°. NP2:ϕ_s189.00000°,δ24.00000°,λ81.00000°. Principal axes: T 7.2590,Plg68.0000°,Azm296.0000°; N -0.4400,Plg4.0000°,Azm197.0000°; P -6.8140,Plg21.0000°,Azm106.0000° $M_0$7.03700×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.0km az=139.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 40 33.4–.47**	**37.56N–.05**	**141.80E–.05**	**24**	**4.6s,4.4b**	**88**	**1-146**
IDC	III	13 14 40 29.6–.58	37.54N	141.87E	0	4.3,4.2		**¶16310949**
NEIC	III	13 14 40 31.2–2.7	37.59N	141.87E	8–17	4.7b,4.2		
ISCJB	III	13 14 40 31.8–.28	37.52N–.04	141.85E–.04	24	4.7s,4.4b		
JMA	III	13 14 40 31.6–.20	37.52N	141.85E	7–3	4.3,4.4b		

ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=13.2km az=129.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.4km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 41 22.2–.77**	**38.29N–.04**	**142.97E–.04**	**26–5**	**5.1b,4.6s**	**1020**	**2-154**
NIED	III	13 14 41 00	38.30N	142.90E	8	4.8W,4.6s		**¶17194893**
IDC	III	13 14 41 18.5–.41	38.28N	142.85E	0	5.0,5.0		
JMA	III	13 14 41 19.4–.30	38.33N	142.87E	0	5.1,5.0		
NEIC	III	13 14 41 20.5–.42	38.28N	142.79E	12–2	5.1b,5.0		
ISCJB	III	13 14 41 20.1–.10	38.27N–.02	142.87E–.02	18	5.0b,4.8s		
BJI	III	13 14 41 22.2	38.40N	142.31E	12	5.2b,4.9s		
MOS	III	13 14 41 23.9–.89	38.62N	142.78E	35	5.3b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ32.00000°,λ-95.00000°. NP2:ϕ_s104.00000°,δ58.00000°,λ-87.00000°. $M_0$1.68000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=168.6.
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=100.6.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 14 44 14.6–.56**	**39.05N–.05**	**142.40E–.06**	**27**	**4.3b**	**48**	**1-145**
IDC	III	13 14 44 10.3–.67	39.02N	142.41E	0	4.3,4.2		**¶16407522**
NEIC	III	13 14 44 12.0–3.5	38.98N	142.40E	12–21	4.6b,4.2		
ISCJB	III	13 14 44 12.4–.43	38.97N–.04	142.48E–.05	27	4.2b,4.2		
JMA	III	13 14 44 14.8–.30	39.05N	142.37E	28–3	4.3,4.2		

ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=14.6km az=142.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.7km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.9km az=26.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**13 14 48 02.0–.37**	**37.81N–.02**	**142.65E–.02**	**16–2**	**5.3b,5.2s**	**1243**	**2-154**
IDC	III	13 14 47 57.6–.44	37.61N	142.99E	0	5.1,5.1		**¶17194897**
BJI	III	13 14 48 00.4	37.77N	142.50E	15	5.7b,5.5s		
JMA	III	13 14 48 00.6–.50	37.59N	142.88E	11	5.7,5.5s		
NIED	III	13 14 48 00	37.60N	142.90E	8	5.4W,5.5s		
MOS	III	13 14 48 01.4–.95	38.01N	142.82E	23	5.6b,5.4s		
GCMT	III	13 14 48 01.4–.10	37.78N	142.99E	17–0	5.4W,5.4s		
NEIC	III	13 14 48 01.4–2.1	37.77N	142.78E	18–13	5.4b,5.1s		
ISCJB	III	13 14 48 01.7–.09	37.90N–.02	142.50E–.02	16	5.3b,5.2s		

ISC Event type se.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ31.00000°,λ-56.00000°. NP2:ϕ_s343.00000°,δ65.00000°,λ-108.00000°. $M_0$1.29000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c135; s120,c248;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.29±.03 $M_{\theta\theta}$-0.08±.02; $M_{\phi\phi}$1.38±.02; $M_{r\theta}$0.40±.05; $M_{\theta\phi}$0.07±.01; $M_{\phi r}$-1.12±.05; Best double couple: NP1:ϕ_s348.00000°,δ66.00000°,λ-103.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ-64.00000°. Principal axes: T 1.7900,Plg20.0000°,Azm88.0000°; N 0.0080,Plg12.0000°,Azm353.0000°; P -1.7910,Plg66.0000°,Azm235.0000° $M_0$1.79000×10^{17}
NEIC Event type se.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 15 10 52.4–.35**	**35.52N–.04**	**140.93E–.04**	**36–1**	**5.1b,4.7s**	**555**	**0-153**
NIED	III	13 15 10 00	35.60N	141.10E	32	5.1W,4.7s		**¶16310952**
BJI	III	13 15 10 46.8	35.47N	141.27E	35	5.5b,5.1b		
ISCJB	III	13 15 10 51.4–.40	35.50N–.03	140.84E–.03	39–3	5.0b,4.7s		
JMA	III	13 15 10 51.0–.20	35.56N	141.08E	36–1	5.1,4.7s		
GCMT	III	13 15 10 52.5–.20	35.61N	141.06E	36–0	5.2W,4.7s		
NEIC	III	13 15 10 52.5–.13	35.47N	140.83E	35	5.0b,4.7s		
IDC	III	13 15 10 52.2–3.2	35.50N	140.85E	31–23	5.0,4.9		
MOS	III	13 15 10 53.5–.86	35.83N	140.84E	44	5.5b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ11.00000°,λ35.00000°. NP2:ϕ_s9.00000°,δ84.00000°,λ99.00000°. $M_0$4.98000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=152.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c93; s75,c129; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.03 $M_{\theta\theta}$-0.18±.02; $M_{\phi\phi}$-0.56±.02; $M_{r\theta}$0.03±.02; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$0.55±.02; Best double couple: NP1:ϕ_s6.00000°,δ65.00000°,λ87.00000°. NP2:ϕ_s192.00000°,δ25.00000°,λ96.00000°. Principal axes: T 0.9410,Plg70.0000°,Azm271.0000°; N -0.1690,Plg2.0000°,Azm7.0000°; P -0.7710,Plg20.0000°,Azm98.0000° $M_0$0.85600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=153.0. Felt at Ina, Narita and Yokosuka. Recorded [3 JMA] in Chiba.
IDC Error ellipse: s-maj=12.7km s-min=9.9km az=105.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=111.4.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 15 15 30.4–.20**	**35.85N**	**140.89E**	**6–2**	**3.8**	
							¶602657327

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 15 25 50.6–2.2**	**39.56N–.05**	**142.70E–.07**	**1–13**	**4.0b**	**39**	**1-88**
IDC	III	13 15 25 50.1–.74	39.51N	142.57E	0	4.1,3.9		**¶602657322**
JMA	III	13 15 25 52.8–.20	39.51N	142.64E	10–2	4.1,3.9		
NEIC	III	13 15 25 55.5–.56	39.57N	142.59E	35	4.1b,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=22.8km s-min=17.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=11.6km az=94.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 15 26 47.8–.10**	**37.37N**	**141.29E**	**29–1**	**3.7**	
							¶602657320

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 15 27 20.4–.47**	**39.49N–.04**	**142.70E–.03**	**32–3**	**5.0b,4.5s**	**910**	**1-147**
NIED	III	13 15 27 00	39.50N	142.70E	23	4.9W,4.5s		**¶16310953**
MOS	III	13 15 27 17.7–.95	39.53N	142.65E	21	5.2b,4.0s		
JMA	III	13 15 27 18.3–.30	39.52N	142.66E	6–3	5.0,4.0s		
BJI	III	13 15 27 19.1	39.44N	142.61E	28	5.2b,4.7s		
IDC	III	13 15 27 20.4–.44	39.43N	142.69E	31–3	4.7,4.6		
ISCJB	III	13 15 27 20.5–.41	39.49N–.02	142.66E–.02	40–3	4.9b,4.4s		
NEIC	III	13 15 27 21.2–.39	39.45N	142.59E	37–3	5.1b,4.4s		
GCMT	III	13 15 27 21.2–.40	39.53N	142.84E	30–1	5.0W,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ49.00000°,λ-144.00000°. NP2:ϕ_s116.00000°,δ63.00000°,λ-47.00000°. $M_0$2.67000×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=93.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.4km s-min=9.6km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=160.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=149.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c28; s73,c98; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.71±.26 $M_{\theta\theta}$3.32±.16; $M_{\phi\phi}$-1.61±.16; $M_{r\theta}$-1.26±.21; $M_{\theta\phi}$1.24±.11; $M_{\phi r}$2.57±.31; Best double couple: NP1:ϕ_s114.00000°,δ67.00000°,λ-41.00000°. NP2:ϕ_s222.00000°,δ53.00000°,λ-151.00000°. Principal axes: T 3.7130,Plg9.0000°,Azm171.0000°; N 0.9100,Plg44.0000°,Azm270.0000°; P -4.6240,Plg44.0000°,Azm72.0000° $M_0$4.16900×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**13 15 45 08.9–2.1**	**39.12N–.05**	**142.46E–.07**	**0–12**	**4.2b**	**40**	**1-88**
IDC	III	13 15 45 08.9–.71	39.10N	142.41E	0	4.3,4.1		**¶16409269**
JMA	III	13 15 45 12.6–.20	39.21N	142.41E	21–3	4.5,4.1		
NEIC	III	13 15 45 13.7–3.0	39.12N	142.56E	33–22	4.6b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=16.8km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.0km az=114.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 16 04 40.6–.42**	**35.57N–.04**	**140.78E–.07**	**21–1**	**4.3b**	**65**	**0-148**
NIED	III	13 16 04 00	35.70N	140.80E	38	4.5W		**¶600544089**
ISCJB	III	13 16 04 41.0–.50	35.60N–.04	140.84E–.07	37–4	4.2b		
JMA	III	13 16 04 42.2–.20	35.74N	140.83E	29–1	4.1		
NEIC	III	13 16 04 43.2–.72	35.60N	140.73E	38–7	4.6b		
IDC	III	13 16 04 43.0–3.4	35.62N	140.72E	36–28	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ58.00000°,λ-177.00000°. NP2:ϕ_s174.00000°,δ87.00000°,λ-32.00000°. $M_0$5.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.7km az=177.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.2km az=77.0.
IDC Error ellipse: s-maj=16.0km s-min=10.6km az=90.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 16 10 02.8–.10**	**37.13N**	**141.42E**	**21–1**	**3.5**	
							¶602657949

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 16 11 32.5–.10**	**36.77N**	**141.17E**	**38–2**	**4.0**	
							¶602657946

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(162) South Island

ISC	**III**	**13 16 14 13.8–1.1**	**43.60S–.06**	**172.97E–.05**	**27**	**3.5b**	**178**	**0-150**
ISCJB	III	13 16 14 12.7–.37	43.62S–.04	173.06E–.05	27	3.7s,3.6b		**¶16313901**
IDC	III	13 16 14 12.6–3.4	43.53S	172.87E	0	3.8s,3.8		
NEIC	III	13 16 14 13.5	43.55S	172.91E	8	4.1L,3.9b		
WEL	III	13 16 14 14.3–.14	43.54S	172.84E	8–1	4.1L,3.9b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=2.5km az=140.3.
IDC Error ellipse: s-maj=94.8km s-min=51.5km az=167.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.8km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 16 15 58.5–3.7**	**39.23N–.06**	**143.06E–.05**	**12–23**	**4.7b,4.1s**	**179**	**1-96**
NIED	III	13 16 15 00	39.30N	143.00E	8	4.4W,4.1s		**¶602657924**
IDC	III	13 16 15 56.4–.58	39.16N	142.97E	0	4.4,4.3		
JMA	III	13 16 15 57.3–.20	39.27N	142.98E	0	4.8,4.3		
ISCJB	III	13 16 15 58.1–1.1	39.19N–.04	143.05E–.03	19–7	4.5b,3.9s		
MOS	III	13 16 15 59.8–.89	39.41N	142.94E	26	4.9b,3.9s		
NEIC	III	13 16 16 00.8–1.6	39.30N	142.86E	23–11	4.8b,3.9s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ63.00000°,λ-168.00000°. NP2:ϕ_s82.00000°,δ80.00000°,λ-28.00000°. $M_0$5.15000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=12.4km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=168.6.
MOS Error ellipse: s-maj=8.3km s-min=5.2km az=93.6.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=3.8km az=150.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 16 20 40.3–1.8**	**40.12N–.07**	**142.2E–.10**	**52–14**	**3.7b**	**21**	**1-72**
ISCJB	III	13 16 20 39.7–1.2	40.10N–.06	142.2E–.10	59–8	3.6b		**¶17194919**
JMA	III	13 16 20 40.4–.10	40.11N	142.22E	38–1	3.7		
IDC	III	13 16 20 47.2–4.8	40.11N	142.06E	117–42	3.7,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=10.0km az=5.9.
JMA Event type fe.
IDC Error ellipse: s-maj=27.7km s-min=25.4km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 16 47 55.4–.64**	**35.26N–.04**	**140.55E–.06**	**35**	**4.1b**	**27**	**0-148**
NIED	III	13 16 47 00	35.30N	140.60E	17	4.2W		**¶16409276**
IDC	III	13 16 47 51.1–.70	35.29N	140.04E	0	4.1,3.9		
ISCJB	III	13 16 47 54.3–.42	35.22N–.03	140.58E–.07	35	4.1b,3.9		
NEIC	III	13 16 47 54.7–5.1	35.26N	140.05E	25–37	4.6b,3.9		
JMA	III	13 16 47 55.3–.10	35.28N	140.61E	19–3	4.2,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ13.00000°,λ-147.00000°. NP2:ϕ_s257.00000°,δ83.00000°,λ-79.00000°. $M_0$2.51000×10^{15}
IDC Error ellipse: s-maj=29.1km s-min=16.9km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.6km az=1.7.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=12.7km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**13 16 47 54.6–.88**	**39.4N–.10**	**143.72E–.10**	**11**	**4.0b**	**33**	**3-87**
IDC	III	13 16 47 52.0–1.3	39.26N	143.70E	0	4.1,4.0		**¶16409279**
ISCJB	III	13 16 47 52.7–.77	39.4N–.10	143.75E–.10	11	4.0b,4.0		
NEIC	III	13 16 47 59.0–2.1	39.50N	143.62E	40–14	4.4b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=16.2km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=9.6km az=157.8.
NEIC Event type fe. Error ellipse: s-maj=21.4km s-min=10.2km az=151.0. Recorded [2 JMA] in Chiba.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 16 50 39.7–.92**	**35.69N–.05**	**140.97E–.07**	**28–6**	**3.8b**	**31**	**0-79**
NIED	III	13 16 50 00	35.80N	141.10E	38	4.1W		**¶16461597**
ISCJB	III	13 16 50 40.0–2.2	35.76N–.04	141.01E–.06	33–16	3.8b		
JMA	III	13 16 50 39.1–.20	35.79N	141.05E	26–1	4.2		
IDC	III	13 16 50 41.1–2.7	35.65N	140.98E	40–25	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ15.00000°,λ96.00000°. NP2:ϕ_s61.00000°,δ75.00000°,λ88.00000°. $M_0$1.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=7.5km az=2.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.5km s-min=13.9km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 16 59 47.5–.83**	**35.70N–.05**	**140.77E–.07**	**28–6**	**3.7b**	**22**	**0-75**
NIED	III	13 16 59 00	35.80N	140.80E	32	4.2W		**¶17194925**
ISCJB	III	13 16 59 46.2–.74	35.72N–.06	140.96E–.09	35–6	3.6b		
JMA	III	13 16 59 46.6–.10	35.75N	140.85E	31–1	3.7		
IDC	III	13 16 59 49.5–3.0	35.58N	140.71E	53–29	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ61.00000°,λ-30.00000°. NP2:ϕ_s262.00000°,δ64.00000°,λ-148.00000°. $M_0$1.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=8.8km az=155.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=14.8km az=89.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 17 01 30.6–.55**	**35.18N–.03**	**141.22E–.03**	**20–2**	**5.1b,5.0s**	**913**	**1-152**
NIED	III	13 17 01 00	35.30N	141.30E	23	5.2W,5.0s		**¶16310960**
IDC	III	13 17 01 27.9–.44	35.17N	141.19E	0	5.0,4.9		
BJI	III	13 17 01 28.4	35.21N	141.24E	23	5.2s,5.0		
JMA	III	13 17 01 30.9–.20	35.26N	141.30E	23–3	5.1,5.0		

NEIC III 13 17 01 30.2–2.7 35.13N 141.15E 17–16 5.1b,5.0
ISCJB III 13 17 01 30.6–.64 35.17N–.02 141.16E–.02 26–4 5.0b,5.0s
MOS III 13 17 01 33.0–1.1 35.17N 141.21E 47 5.2b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ3.00000°,λ77.00000°. NP2:ϕ_s49.00000°,δ87.00000°,λ91.00000°. $M_0$6.37000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=10.3km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=141.0. Recorded [2 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=159.3.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=112.1.

(228) Near east coast of eastern Honshu

JMA III 13 17 03 23.6–.20 38.78N 142.01E 44–3 3.7
¶602707308

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC III 13 17 04 01.1–.45 37.56N–.06 143.70E–.06 35 4.9b,4.5s 146 2-153
IDC III 13 17 03 56.7–.59 37.64N 143.71E 0 4.6,4.5 **¶602657807**
MOS III 13 17 03 58.8–1.3 37.81N 143.70E 26 5.2b,4.5
ISCJB III 13 17 03 59.1–.27 37.58N–.04 143.67E–.04 33 4.8b,4.6s
NEIC III 13 17 04 01.4–.30 37.65N 143.60E 35 5.1b,4.6s
JMA III 13 17 04 12.7–.10 37.18N 141.58E 25–1 4.5,4.6s
ISC Event type ke.
IDC Error ellipse: s-maj=16.7km s-min=12.9km az=152.0.
MOS Error ellipse: s-maj=9.2km s-min=6.4km az=93.3.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=144.7.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.0km az=147.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 13 17 07 16.0–.10 37.23N 141.24E 32–1 3.6
¶602657805

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA III 13 17 08 23.6–.10 37.19N 141.00E 25–1 3.9
¶603049725

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 13 17 16 14.4–.10 38.70N 141.71E 49–2 3.8
¶602657799

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 17 20 17.4–.44 37.99N–.06 143.09E–.06 18 4.7b 146 2-145
NIED III 13 17 20 00 37.00N 141.60E 11 4.5W **¶16461599**
IDC III 13 17 20 14.9–.51 37.98N 143.07E 0 4.4,4.4
ISCJB III 13 17 20 15.5–.27 37.91N–.04 143.10E–.04 18 4.5b,3.7s
MOS III 13 17 20 17.2–1.1 38.03N 143.02E 29 4.8b,3.7s
NEIC III 13 17 20 19.7–.30 37.95N 143.02E 35 4.8b,3.7s
JMA III 13 17 20 46.4–.10 36.98N 141.57E 29–2 4.6,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ45.00000°,λ15.00000°. NP2:ϕ_s282.00000°,δ79.00000°,λ134.00000°. $M_0$6.71000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=12.5km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.7km az=140.9.
MOS Error ellipse: s-maj=10.5km s-min=6.4km az=106.9.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 17 29 09.8–.77 35.61N–.03 140.87E–.05 29–5 4.7b 229 0-149
NIED III 13 17 29 00 35.80N 140.90E 38 4.8W **¶16310962**
ISCJB III 13 17 29 09.7–.42 35.61N–.03 140.85E–.04 39–3 4.7b,4.0s
MOS III 13 17 29 09.5–1.5 35.78N 140.91E 36 5.0b,4.0s
JMA III 13 17 29 10.2–.20 35.76N 140.85E 32–1 4.8,4.0s
NEIC III 13 17 29 10.9–.19 35.60N 140.76E 35 4.8b,4.0s
IDC III 13 17 29 11.2–3.9 35.63N 140.77E 33–30 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ63.00000°,λ-171.00000°. NP2:ϕ_s176.00000°,δ82.00000°,λ-28.00000°. $M_0$1.58000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=5.7.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=98.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s256.00000°,δ58.00000°,λ125.00000°. NP2: ϕ_s23.00000°,δ47.00000°,λ48.00000°. Principal axes: T Plg60.0000°,Azm221.0000° ; N Plg29.0000°,Azm55.0000°; P Plg6.0000°,Azm322.0000°
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.3km az=119.0. Recorded [3 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=12.9km s-min=8.8km az=92.0.

(228) Near east coast of eastern Honshu

JMA III 13 17 35 27.8–.10 36.23N 140.47E 52–1 3.5
¶602657294

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 13 17 40 29.5–.56 37.91N–.04 142.72E–.04 20–2 5.1b,4.6s 994 2-154
NIED III 13 17 40 00 37.90N 142.60E 8 4.9W,4.6s **¶16477560**
IDC III 13 17 40 26.6–.42 37.85N 142.64E 0 5.1,5.1
ISCJB III 13 17 40 27.0–.92 37.87N–.02 142.70E–.02 11–5 5.1b,4.7s
BJI III 13 17 40 27.5 38.04N 142.68E 22 5.2b,5.0b
JMA III 13 17 40 27.8–.50 37.93N 142.58E 2 5.1,5.0b
GCMT III 13 17 40 30.1–.30 37.88N 142.61E 12 5.0W,5.0b
MOS III 13 17 40 30.0–.75 38.22N 142.61E 22 5.4b,4.2s
NEIC III 13 17 40 30.1–.39 37.93N 142.60E 20–2 5.1b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ53.00000°,λ-43.00000°. NP2:ϕ_s144.00000°,δ57.00000°,λ-135.00000°. $M_0$2.74000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=11.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=169.2.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c31; s75,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.99±.11 $M_{\theta\theta}$-0.97±.11; $M_{\phi\phi}$2.95±.07; $M_{r\theta}$-2.86±.34; $M_{\theta\phi}$-0.15±.07; $M_{\phi r}$-0.10±.24; Best double couple: NP1:ϕ_s145.00000° ,δ57.00000°,λ-140.00000°. NP2:ϕ_s30.00000°,δ57.00000°,λ-40.00000°. Principal axes: T 2.9560,Plg0.0000°,Azm268.0000°; N 1.4250,Plg40.0000°,Azm177.0000° ; P -4.3880,Plg50.0000°,Azm358.0000° $M_0$3.67200×10^{16}
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=98.1.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=152.0.

(228) Near east coast of eastern Honshu

ISC III 13 17 50 05.5–.83 36.00N–.04 141.83E–.05 28–5 4.7b 250 1-154
NIED III 13 17 50 00 36.10N 141.80E 17 4.4W **¶17194929**
IDC III 13 17 50 01.5–.44 35.96N 141.73E 0 4.9L,4.6
MOS III 13 17 50 03.1–1.1 36.04N 141.80E 22 4.9b,4.6
JMA III 13 17 50 05.1–.20 36.08N 141.79E 39 4.4,4.6
ISCJB III 13 17 50 05.9–.62 35.98N–.03 141.72E–.04 41–5 4.6b,4.5s
NEIC III 13 17 50 07.5–.90 35.99N 141.66E 41–8 4.7b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ39.00000°,λ-68.00000°. NP2:ϕ_s6.00000°,δ54.00000°,λ-107.00000°. $M_0$5.23000×10^{15}
IDC Error ellipse: s-maj=12.1km s-min=11.1km az=109.0.
MOS Error ellipse: s-maj=8.4km s-min=5.2km az=106.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.9km az=32.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=149.0.

(229) Off east coast of Honshu

ISC III 13 17 53 37.1–.77 37.12N–.07 142.49E–.07 9 3.9b 35 1-89
NIED III 13 17 53 00 37.30N 142.40E 20 4.3W **¶16477567**
ISCJB III 13 17 53 35.1–.56 37.08N–.05 142.55E–.05 9 4.0b
JMA III 13 17 53 38.8–.20 37.26N 142.37E 12–3 4.4
NEIC III 13 17 53 41.7–1.9 37.20N 142.38E 38–15 4.2b
IDC III 13 17 53 41.2–4.1 37.11N 142.41E 35–33 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ46.00000°,λ-149.00000°. NP2:ϕ_s328.00000°,δ68.00000°,λ-49.00000°. $M_0$2.78000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.1km az=158.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=10.7km az=114.0.
IDC Error ellipse: s-maj=25.2km s-min=15.4km az=95.0.

(228) Near east coast of eastern Honshu

ISC III 13 17 55 23.9–.43 35.19N–.02 141.11E–.03 23–2 5.5b,5.4s 1502 1-159
NIED III 13 17 55 00 35.20N 141.20E 23 5.6W,5.4s **¶602443467**
ISCJB III 13 17 55 19.8–.71 35.14N–.02 141.04E–.02 3–4 5.5b,5.5s
IDC III 13 17 55 20.7–.30 35.18N 141.15E 0 5.4s,5.4
GCMT III 13 17 55 21.6–.10 35.28N 141.30E 15 5.7W,5.4
NEIC III 13 17 55 21.6–2.6 35.15N 141.10E 10–16 5.6W,5.5b
BJI III 13 17 55 22.0 35.20N 141.00E 24 5.6,5.6s
JMA III 13 17 55 24.5–.20 35.25N 141.23E 16–4 5.7,5.6s
MOS III 13 17 55 24.5–1.1 35.16N 141.14E 37 5.7b,5.5s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ22.00000°,λ5.00000°. NP2:ϕ_s48.00000°,δ88.00000°,λ112.00000°. $M_0$2.57000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=160.4.
IDC Error ellipse: s-maj=10.5km s-min=7.3km az=85.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c144; s101,c206; Duration: 1$s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.02 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$2.78±.07; $M_{\theta\phi}$-0.80±.01; $M_{\phi r}$2.14±.07; Best double couple: NP1:ϕ_s53.00000°,δ83.00000° ,λ97.00000°. NP2:ϕ_s188.00000°,δ10.00000°,λ46.00000°. Principal axes: T 3.4420,Plg51.0000°,Azm330.0000°; N 0.3840,Plg7.0000°,Azm232.0000° ; P -3.8270,Plg38.0000°,Azm137.0000° $M_0$3.63500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=132.0. Felt at Kawasaki, Tokyo, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Kanagawa, Saitama and Tokyo. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}1.21 $M_{\theta\theta}$-0.92 $M_{\phi\phi}$-0.29 $M_{r\theta}$2.40 $M_{\theta\phi}$0.23 $M_{\phi r}$1.48 Best double couple: NP1:ϕ_s284.00000° ,δ12.00000°,λ131.00000°. NP2:ϕ_s62.00000°,δ81.00000°,λ82.00000°. Principal axes: T 3.3000,Plg53.0000°,Azm323.0000°; N -0.6300,Plg8.0000°,Azm63.0000° ; P -2.6600,Plg36.0000°,Azm159.0000° $M_0$3.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=113.3.

(228) Near east coast of eastern Honshu

ISC III 13 18 03 20.4–.44 36.26N–.04 141.20E–.06 31 4.5b 96 1-152
IDC III 13 18 03 15.9–.56 36.24N 141.23E 0 4.5,4.4 **¶16461545**
JMA III 13 18 03 19.1–.10 36.24N 141.20E 31–3 4.6,4.4
ISCJB III 13 18 03 19.3–.27 36.24N–.03 141.18E–.04 31 4.4b,4.4
NEIC III 13 18 03 21.2–.29 36.20N 141.15E 35 4.6b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=14.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.2km az=18.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.1km az=175.0.

(228) Near east coast of eastern Honshu

ISC III 13 18 40 16.3–1.4 36.40N–.04 141.03E–.07 24–10 3.7b 22 1-60
IDC III 13 18 40 11.1–4.1 36.57N 141.51E 0 3.8,3.8 **¶16477587**
JMA III 13 18 40 16.8–.10 36.37N 140.99E 41–1 3.6,3.8
ISCJB III 13 18 40 16.4–.88 36.37N–.04 141.03E–.08 41–8 3.7b,3.8
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 13 18 43 37.4–1.7 36.93N–.07 141.3E–.10 48–13 3.4b 20 0-61
IDC III 13 18 43 29.6–.99 37.16N 141.87E 0 3.9L,3.7 **¶16477589**
ISCJB III 13 18 43 37.0–1.3 36.91N–.07 141.3E–.10 59–8 3.5b,3.7
JMA III 13 18 43 38.8–.10 36.86N 141.19E 43–1 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=18.0km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=11.6km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 13 18 45 13.9–.72 38.30N–.04 142.26E–.05 23–4 4.7b 151 1-89
NIED III 13 18 45 00 38.40N 142.40E 14 4.5W **¶16461604**
ISCJB III 13 18 45 10.1–1.4 38.29N–.02 142.37E–.04 12–8 4.6b
MOS III 13 18 45 12.4–.82 38.19N 142.19E 27 5.0b
JMA III 13 18 45 12.8–.20 38.37N 142.35E 29 4.8
IDC III 13 18 45 14.0–.65 38.27N 142.22E 22–3 4.4,4.4
NEIC III 13 18 45 15.4–.25 38.23N 142.21E 35 4.8b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ36.00000°,λ-140.00000°. NP2:ϕ_s346.00000°,δ68.00000°,λ-61.00000°. $M_0$5.78000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=5.6.
MOS Error ellipse: s-maj=12.5km s-min=7.8km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=11.5km az=85.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=117.0.

(228) Near east coast of eastern Honshu

ISC III 13 18 49 33.5–.33 35.20N–.04 141.10E–.05 48 4.8b,4.6s 333 1-155
NIED III 13 18 49 00 35.20N 141.20E 17 4.9W,4.6s **¶16311603**
IDC III 13 18 49 27.0–.42 35.18N 141.16E 0 4.7,4.6b
MOS III 13 18 49 28.8–1.0 35.21N 141.05E 22 4.9b,4.6s
JMA III 13 18 49 30.7–.20 35.24N 141.23E 18–4 4.7,4.6s
NEIC III 13 18 49 32.7–.67 35.19N 141.05E 36–6 4.8b,4.6s
ISCJB III 13 18 49 32.5–.15 35.19N–.03 141.01E–.03 48 4.7b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ14.00000°,λ-168.00000°. NP2:ϕ_s214.00000°,δ87.00000°,λ-76.00000°. $M_0$2.73000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [1 JMA] in Chiba.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA III 13 18 52 42.4–.30 38.42N 142.17E 13–4 4.3
¶602657212

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 13 19 13 24.1–.10 36.15N 141.01E 33–2 3.5
¶602657183

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 13 19 15 11.1–.60 37.32N–.07 142.23E–.07 24 3.8b 28 1-89
ISCJB III 13 19 15 09.3–.51 37.30N–.06 142.33E–.07 24 3.9b **¶16477597**
JMA III 13 19 15 12.3–.30 37.30N 142.11E 17–4 4.6
IDC III 13 19 15 12.9–.71 37.34N 142.26E 36–6 3.9,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.9km az=43.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=13.9km az=79.0.

(228) Near east coast of eastern Honshu

ISC III 13 19 16 37.5–1.1 35.94N–.03 140.96E–.04 8–6 4.9b,4.0s 346 0-155
NIED III 13 19 16 00 35.90N 141.00E 8 4.7W,4.0s **¶602443471**
IDC III 13 19 16 36.4–.44 35.87N 140.95E 0 4.7,4.7
JMA III 13 19 16 38.3–.20 35.88N 141.03E 13–2 4.9,4.7
ISCJB III 13 19 16 38.5–.53 35.90N–.03 140.93E–.03 21–4 4.8b,4.0s
MOS III 13 19 16 40.9–.84 36.23N 140.89E 27 5.1b,4.0s
NEIC III 13 19 16 41.8–.17 35.86N 140.84E 35 4.9b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ52.00000°,λ-40.00000°. NP2:ϕ_s172.00000°,δ60.00000°,λ-134.00000°. $M_0$1.39000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=11.8km az=36.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=12.4.
MOS Error ellipse: s-maj=7.6km s-min=4.6km az=103.6.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=164.0. Recorded [3 JMA] in Chiba and Ibaraki.

(232) Western Honshu

JMA III 13 19 23 24.4 35.10N 136.15E 14–1 3.6

¶602657174
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 19 27 22.0–1.1 37.18N–.07 141.2E–.10 35 3.9b 17 0-74
NIED III 13 19 27 00 37.20N 141.10E 11 4.0W ¶602446703
IDC III 13 19 27 14.3–1.4 37.35N 142.54E 0 4.1,4.1
ISCJB III 13 19 27 20.2–.88 37.17N–.06 141.23E–.08 35 3.8b,4.1
JMA III 13 19 27 22.2–.10 37.19N 141.08E 28–1 4.1,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ10.00000°,λ30.00000°. NP2:ϕ_s16.00000°,δ85.00000°,λ98.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=46.2km s-min=18.0km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.7km az=137.5.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 13 19 35 49.5–.20 35.88N 141.02E 10–2 3.9
¶603049728
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 19 41 25.9–.54 35.71N–.05 140.99E–.06 33 3.9b 38 0-148
NIED III 13 19 41 00 35.80N 141.10E 32 4.3W ¶16477605
IDC III 13 19 41 20.9–.72 35.62N 141.08E 0 4.1,3.9
ISCJB III 13 19 41 24.8–.45 35.81N–.04 141.19E–.05 33 3.9b,3.9
NEIC III 13 19 41 25.7–.50 35.63N 140.91E 35 4.0b,3.9
JMA III 13 19 41 26.2–.20 35.78N 141.09E 33–1 3.6,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ48.00000°,λ-35.00000°. NP2:ϕ_s257.00000°,δ65.00000°,λ-132.00000°. $M_0$2.91000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=18.3km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=6.0km az=31.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.9km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 19 42 54.7–1.9 37.32N–.06 141.1E–.10 26–10 3.8b 16 0-57
IDC III 13 19 42 48.5–3.8 37.48N 141.71E 0 3.9,3.9 ¶17194966
ISCJB III 13 19 42 53.1–1.4 37.29N–.07 141.25E–.10 28–7 3.8b,3.9
JMA III 13 19 42 55.7 37.32N 141.07E 25–1 3.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=115.6km s-min=23.4km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=10.1km az=149.6.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 13 19 52 25.8–.10 35.97N 140.64E 36–1 3.6
¶603049729
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 19 59 49.0–.39 36.95N–.03 141.99E–.03 20–2 5.1b,5.0s 595 1-151
NIED III 13 19 59 00 37.00N 141.90E 29 5.1W,5.0s ¶16311607
BJI III 13 19 59 47.2 37.00N 142.16E 31 5.1b,5.0s
ISCJB III 13 19 59 48.8–.65 36.92N–.02 141.97E–.02 25–4 5.0b,4.9s
MOS III 13 19 59 49.9–.99 37.32N 141.87E 22 5.3b,5.1s
JMA III 13 19 59 50.1–.30 36.97N 141.91E 36–3 5.3,5.1s
GCMT III 13 19 59 50.1–.20 37.01N 142.12E 36–1 5.2W,5.1s
NEIC III 13 19 59 50.1–1.7 36.92N 141.91E 25–12 5.1b,5.1s
IDC III 13 19 59 51.0–4.1 36.94N 141.93E 30–29 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ31.00000°,λ-5.00000°. NP2:ϕ_s261.00000°,δ87.00000°,λ-121.00000°. $M_0$5.84000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=154.2.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=102.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c77; s98,c179; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.76±.20 $M_{\theta\theta}$0.94±.13; $M_{\phi\phi}$-2.69±.16; $M_{r\theta}$5.85±.28; $M_{\theta\phi}$-3.52±.10; $M_{\phi r}$1.82±.16; Best double couple: NP1:ϕ_s69.00000°,δ82.00000°,λ121.00000°. NP2:ϕ_s172.00000°,δ32.00000°,λ15.00000°. Principal axes: T 7.3430,Plg44.0000°,Azm10.0000°; N 0.2210,Plg31.0000°,Azm244.0000°; P -7.5560,Plg30.0000°,Azm134.0000° $M_0$7.45000×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=134.0.
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=107.0.
(228) Near east coast of eastern Honshu
JMA III 13 20 14 49.9–.10 36.58N 140.84E 30–1 3.8
NIED III 13 20 14 00 36.60N 140.80E 47 4.5W ¶603049951
JMA Felt [I] J1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ34.00000°,λ51.00000°. NP2:ϕ_s227.00000°,δ64.00000°,λ113.00000°. $M_0$7.48000×10^{15}
(228) Near east coast of eastern Honshu
JMA III 13 20 16 10.6–.20 39.42N 142.70E 8–3 4.1
¶602657129
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(498) Western Texas
ISC III 13 20 16 20.2–1.2 32.98N–.03 100.85W–.03 6–8 3.7b 191 1-125
IDC III 13 20 16 19.3–.72 33.04N 100.82W 0 4.2s,4.2 ¶16314259
NEIC III 13 20 16 20.6–.39 33.00N 100.77W 5 4.0b,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=16.0km s-min=8.4km az=119.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.3km az=161.0. Felt [III] at Snyder. Also felt at Eastland, Joshua, McKinney, Midland and Novice. Moment Tensor Solution. s30 Moment tensor: Scale 10^{14}Nm; M_{rr}-4.33 $M_{\theta\theta}$1.49 $M_{\phi\phi}$2.84 $M_{r\theta}$-3.07 $M_{\theta\phi}$4.18 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s191.00000°,δ48.00000°,λ-138.00000°. NP2:ϕ_s70.00000°,δ60.00000°,λ-50.00000°. Principal axes: T 6.5300,Plg7.0000°,Azm133.0000°; N 0.0000,Plg34.0000°,Azm227.0000°; P -6.5300,Plg55.0000°,Azm33.0000° $M_0$6.50000×10^{14}
(230) Near south coast of eastern Honshu
JMA III 13 20 21 45.6–.20 35.53N 139.92E 27–3 2.7
¶603049730
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 20 23 34.9–1.9 35.88N–.04 141.19E–.06 15–12 3.7b 37 0-79
NIED III 13 20 23 00 36.00N 141.20E 5 4.1W ¶16477620
IDC III 13 20 23 33.9–.79 35.99N 141.23E 0 4.1L,4.0
JMA III 13 20 23 37.2–.10 36.01N 141.18E 36–2 4.2,4.0
NEIC III 13 20 23 38.6–.47 35.95N 141.22E 35 4.0b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ12.00000°,λ-46.00000°. NP2:ϕ_s8.00000°,δ82.00000°,λ-98.00000°. $M_0$1.58000×10^{15}
IDC Error ellipse: s-maj=22.9km s-min=16.0km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.0km az=101.0.
(228) Near east coast of eastern Honshu
ISC III 13 20 25 35.6–2.4 38.93N–.05 142.49E–.10 6–13 3.8b 16 1-63
IDC III 13 20 25 29.9–1.3 39.45N 144.08E 0 3.9,3.8 ¶17194977
JMA III 13 20 25 39.6–.10 38.98N 142.39E 25–1 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=25.4km az=83.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 20 32 19.0–.62 37.26N–.06 142.13E–.06 19 3.9b 33 1-77
IDC III 13 20 32 16.7–.70 37.35N 142.16E 0 4.1,4.0 ¶16461614
ISCJB III 13 20 32 17.2–.47 37.25N–.05 142.16E–.06 19 3.9b,4.0
JMA III 13 20 32 21.3–.20 37.37N 141.94E 23–2 4.2,4.0
NEIC III 13 20 32 21.5–.58 37.35N 142.06E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.2km az=152.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=11.5km az=118.0.
(228) Near east coast of eastern Honshu
ISC III 13 20 38 11.8–3.5 38.66N–.05 142.50E–.08 24–25 3.8b 25 1-88
IDC III 13 20 38 08.4–.93 38.57N 142.81E 0 3.9,3.7 ¶600544467
JMA III 13 20 38 14.1–.10 38.77N 142.36E 37–2 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=20.6km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 13 20 48 38.4–.20 38.66N 141.88E 42–3 4.1
¶602657084
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 13 20 52 05.9–.92 37.92N–.05 142.32E–.08 14 4.1b 19 1-82
NIED III 13 20 52 00 37.90N 142.30E 44 4.3W ¶17194985
ISCJB III 13 20 52 04.0–.71 37.88N–.05 142.53E–.07 14 4.1b
IDC III 13 20 52 06.7–.80 37.72N 140.53E 0 4.3,4.2
JMA III 13 20 52 07.5–.20 37.90N 142.29E 17–4 4.2,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ19.00000°,λ-146.00000°. NP2:ϕ_s6.00000°,δ80.00000°,λ-75.00000°. $M_0$3.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=7.1km az=147.4.
IDC Error ellipse: s-maj=24.7km s-min=16.9km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 21 13 37.4–.43 37.60N–.05 142.08E–.06 24 4.4b 74 1-146
IDC III 13 21 13 33.9–.65 37.61N 141.98E 0 4.7L,4.2 ¶16461618
ISCJB III 13 21 13 35.4–.31 37.53N–.04 142.14E–.05 24 4.4b,4.2
JMA III 13 21 13 37.0–.30 37.64N 141.95E 8–4 4.2,4.2
NEIC III 13 21 13 39.0–1.9 37.58N 142.05E 34–13 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=14.7km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=137.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=117.0.
(228) Near east coast of eastern Honshu
ISC III 13 21 17 24.4–.43 38.15N–.04 142.09E–.05 30 4.2b 93 1-150
NEIC III 13 21 17 22.9–1.7 38.17N 142.21E 22–6 4.7b ¶16461554
ISCJB III 13 21 17 22.4–.29 38.16N–.03 142.25E–.04 30 4.2b
JMA III 13 21 17 23.7–.30 38.29N 142.09E 18 4.3
IDC III 13 21 17 25.3–.55 38.20N 142.06E 33–3 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=6.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=22.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=12.3km az=89.0.
(228) Near east coast of eastern Honshu
ISC III 13 21 26 06.0–.76 36.80N–.05 141.18E–.07 34–2 3.6b 27 0-78
NIED III 13 21 26 00 36.80N 141.10E 50 3.9W ¶17194987
ISCJB III 13 21 26 05.4–.90 36.76N–.04 141.20E–.09 46–8 3.5b
JMA III 13 21 26 06.2–.10 36.81N 141.13E 46–1 3.5
IDC III 13 21 26 07.5–.85 36.73N 141.15E 50–8 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ33.00000°,λ115.00000°. NP2:ϕ_s37.00000°,δ61.00000°,λ75.00000°. $M_0$8.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.0km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.5km s-min=11.4km az=112.0.
(228) Near east coast of eastern Honshu
JMA III 13 21 28 21.5–.10 36.65N 141.08E 44–2 3.6
NIED III 13 21 28 00 36.60N 141.10E 59 4.5W ¶602657043
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ20.00000°,λ55.00000°. NP2:ϕ_s121.00000°,δ74.00000°,λ102.00000°. $M_0$5.32000×10^{15}
(228) Near east coast of eastern Honshu
JMA III 13 21 28 22.4–.10 39.07N 142.38E 21–1 3.9
¶603049731
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 21 44 38.1–1.2 35.85N–.07 140.78E–.08 9–8 3.6b 15 0-79
IDC III 13 21 44 36.8–1.0 35.75N 140.98E 0 3.8,3.6 ¶600544535
JMA III 13 21 44 37.8–.10 35.86N 140.93E 10–2 4.1,3.6
ISCJB III 13 21 44 37.9–.92 35.81N–.05 140.90E–.09 19–5 3.5b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 13 21 52 56.4–.52 38.99N–.06 142.36E–.06 27 4.2b 64 1-88
NIED III 13 21 52 00 39.00N 142.40E 29 4.3W ¶600544541
ISCJB III 13 21 52 54.4–.34 38.93N–.04 142.45E–.05 27 4.2b,3.5s
JMA III 13 21 52 56.5–.10 39.04N 142.42E 29–2 4.5,3.5s
NEIC III 13 21 52 57.9–.69 39.00N 142.31E 38–6 4.6b,3.5s
IDC III 13 21 52 57.3–.59 38.96N 142.38E 33–4 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ15.00000°,λ-103.00000°. NP2:ϕ_s178.00000°,δ75.00000°,λ-87.00000°. $M_0$3.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=5.2km az=139.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=136.0.
IDC Error ellipse: s-maj=14.1km s-min=11.6km az=122.0.
(228) Near east coast of eastern Honshu
JMA III 13 22 06 42.3–.40 35.87N 140.95E 11–5 3.7
¶602657026
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 13 22 12 57.2–.42 38.99N–.05 141.39E–.06 115–2 4.4b 105 0-146
NIED III 13 22 12 00 39.10N 141.30E 116 4.4W ¶17194997
NEIC III 13 22 12 57.2–.35 38.97N 141.24E 112 4.7b
ISCJB III 13 22 12 57.1–.46 39.06N–.05 141.28E–.06 123–2 4.3b
IDC III 13 22 12 57.1–.40 38.91N 141.29E 112–2 4.3,4.1
JMA III 13 22 12 58.1–.10 39.06N 141.34E 115–1 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ24.00000°,λ-93.00000°. NP2:ϕ_s176.00000°,δ66.00000°,λ-88.00000°. $M_0$4.98000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=155.0. Recorded [2 JMA] in Aomori and Iwate.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=44.1.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s167.00000°,δ65.00000°,λ-64.00000°. NP2:ϕ_s298.00000°,δ35.00000°,λ-133.00000°. Principal axes: T Plg16.0000°,Azm238.0000°; N Plg23.0000°,Azm335.0000°; P Plg61.0000°,Azm116.0000°
(228) Near east coast of eastern Honshu
ISC III 13 22 16 31.3–.42 36.27N–.03 140.85E–.04 23–2 4.5b 175 1-152
NIED III 13 22 16 00 36.30N 140.90E 23 4.3W ¶602443478
MOS III 13 22 16 30.4–.95 36.35N 140.74E 26 5.0b
JMA III 13 22 16 31.2–.10 36.26N 140.91E 36–2 4.4
ISCJB III 13 22 16 31.4–.50 36.26N–.02 140.92E–.04 39–4 4.4b
IDC III 13 22 16 32.5–.46 36.25N 140.76E 30–2 4.4,4.3
NEIC III 13 22 16 33.1–.28 36.28N 140.77E 35 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ3.00000°,λ132.00000°. NP2:ϕ_s27.00000°,δ88.00000°,λ88.00000°. $M_0$3.54000×10^{15}
MOS Error ellipse: s-maj=12.5km s-min=6.2km az=111.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=8.8.
IDC Error ellipse: s-maj=11.8km s-min=11.1km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.7km az=134.0. Recorded [3 JMA] in Ibaraki and Tochigi.
(228) Near east coast of eastern Honshu
ISC III 13 22 18 38.6–1.1 39.08N–.06 142.39E–.08 27 4.2b 17 1-63
IDC III 13 22 18 34.3–1.2 38.97N 142.29E 0 4.7s,4.7 ¶17194999
ISCJB III 13 22 18 36.9–.89 39.03N–.05 142.48E–.07 27 4.7s,4.2b
JMA III 13 22 18 38.7–.20 39.06N 142.35E 22–2 4.3,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=41.8km s-min=23.6km az=80.0.

ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.8km az=2.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**13 22 20 17.5–.42**	**36.00N–.03**	**141.89E–.03**	**20–3**	**5.2b,5.1s**	**696**	**1-154**
NIED	III	13 22 20 00	36.00N	142.00E	17	5.1W,5.1s		¶16311611
BJI	III	13 22 20 14.4	35.90N	141.90E	22	5.2b,5.2s		
IDC	III	13 22 20 14.0–.35	35.97N	141.88E	0	4.8,4.8		
ISCJB	III	13 22 20 15.6–.77	35.99N–.02	141.85E–.02	15–4	5.1b,5.0s		
JMA	III	13 22 20 15.8–.20	36.02N	142.05E	64–4	5.4,5.0s		
MOS	III	13 22 20 17.5–.93	36.33N	141.84E	22	5.4b,5.2s		
NEIC	III	13 22 20 18.1–2.1	36.02N	141.79E	21–14	5.3b,5.2s		
GCMT	III	13 22 20 18.1–.20	36.02N	142.06E	16–0	5.2W,5.2s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ66.00000°,λ-175.00000°. NP2:ϕ_s194.00000°,δ86.00000°,λ-24.00000°. $M_0$4.58000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=154.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=107.6.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=133.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c91; s82,c155; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.38±.21 $M_{\theta\theta}$-2.34±.14; $M_{\phi\phi}$-2.04±.15; $M_{r\theta}$5.18±.52; $M_{\theta\phi}$-3.89±.10; $M_{\phi r}$2.50±.44; Best double couple: NP1:ϕ_s62.00000°,δ70.00000°,λ105.00000°. NP2:ϕ_s205.00000°,δ25.00000°,λ55.00000°. Principal axes:
T 7.2100,Plg62.0000°,Azm354.0000°; N 1.2570,Plg14.0000°,Azm237.0000°
; P -8.4670,Plg24.0000°,Azm140.0000° $M_0$7.83800×10^{16}

(229) Off east coast of Honshu

ISC	**III**	**13 22 23 54.2–2.9**	**39.78N–.05**	**143.49E–.04**	**3–18**	**4.8b**	**148**	**2-146**
ISCJB	III	13 22 23 52.7–1.4	39.74N–.03	143.50E–.04	3–8	4.9s,4.6b		¶16311612
JMA	III	13 22 23 55.0–.40	39.84N	143.38E	0	5.2,4.6b		
IDC	III	13 22 23 58.8–.49	39.73N	143.31E	31–3	4.8,4.8s		
NEIC	III	13 22 23 58.3–2.1	39.77N	143.32E	27–14	4.7b,4.8s		
MOS	III	13 22 23 59.1–1.2	39.91N	143.32E	43	5.3b,4.8s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=163.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.2km s-min=10.4km az=117.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.2km az=139.0.
MOS Error ellipse: s-maj=9.8km s-min=5.8km az=93.9.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 22 34 56.4–.10**	**35.81N**	**140.87E**	**23–1**	**3.5**		
								¶602657013

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 22 35 58.3–2.9**	**39.05N–.04**	**142.42E–.08**	**23–20**	**4.1b**	**43**	**1-80**
IDC	III	13 22 35 54.7–.75	39.01N	142.38E	0	4.2,4.0		¶16477262
JMA	III	13 22 35 59.1–.10	39.11N	142.40E	30–1	4.4,4.0		
NEIC	III	13 22 35 59.9–.52	39.02N	142.40E	35	4.2b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.7km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.6km az=130.0.

(229) Off east coast of Honshu

ISC	**III**	**13 22 42 13.4–2.2**	**37.68N–.05**	**142.15E–.07**	**25–8**	**4.0b**	**52**	**1-146**
NIED	III	13 22 42 00	37.70N	142.00E	26	4.0W		¶16477263
IDC	III	13 22 42 09.3–.62	37.73N	142.12E	0	4.4L,4.2		
ISCJB	III	13 22 42 12.6–.81	37.67N–.03	142.14E–.06	38–7	4.0b,4.2		
JMA	III	13 22 42 13.6–.20	37.74N	142.01E	28–5	4.2,4.2		
NEIC	III	13 22 42 14.6–1.1	37.73N	142.11E	36–9	4.0b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ9.00000°,λ-27.00000°. NP2:ϕ_s188.00000°,δ86.00000°,λ-98.00000°. $M_0$1.09000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=15.1km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=179.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.6km az=133.0.

(227) Eastern Honshu

JMA	**III**	**13 22 46 16.1**	**39.59N**	**140.41E**	**7–1**	**3.1**		
								¶603049734

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 22 48 22.9–.10**	**37.22N**	**141.19E**	**29–1**	**3.7**		
								¶602657003

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 22 56 31.6–.97**	**36.86N–.05**	**141.04E–.08**	**51–8**	**4.1b**	**56**	**0-147**
NIED	III	13 22 56 00	36.90N	141.10E	53	4.2W		¶16477655
JMA	III	13 22 56 31.8–.10	36.91N	141.06E	50–1	4.3		
ISCJB	III	13 22 56 31.0–.59	36.86N–.04	141.03E–.07	62–4	4.2b		
IDC	III	13 22 56 32.1–2.5	36.90N	140.93E	52–25	4.1,4.0		
NEIC	III	13 22 56 32.9–1.2	36.91N	140.89E	60–10	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ4.00000°,λ100.00000°. NP2:ϕ_s24.00000°,δ86.00000°,λ89.00000°. $M_0$2.12000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.8km az=169.6.
IDC Error ellipse: s-maj=17.8km s-min=13.1km az=83.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=8.0km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 23 01 22.9–2.3**	**39.49N–.08**	**142.71E–.07**	**6–13**	**4.0b**	**22**	**1-88**
IDC	III	13 23 01 20.6–2.6	39.25N	142.55E	0	4.1,3.9		¶17195008
JMA	III	13 23 01 22.2–.50	39.43N	142.72E	0	4.6,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=61.3km s-min=28.8km az=170.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 23 06 17.5–.65**	**39.90N–.07**	**142.44E–.06**	**31**	**4.4b**	**57**	**1-88**
NIED	III	13 23 06 00	40.00N	142.30E	41	4.3W		¶16449578
ISCJB	III	13 23 06 15.6–.47	39.88N–.07	142.52E–.06	31	4.2b		
IDC	III	13 23 06 18.0–3.2	39.69N	142.44E	44–29	4.1,4.0		
JMA	III	13 23 06 19.6–.10	39.97N	142.32E	37–2	4.1,4.0		
NEIC	III	13 23 06 20.0–.88	39.79N	142.43E	60–7	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ14.00000°,λ71.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ95.00000°. $M_0$3.46000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.0km az=160.0.
IDC Error ellipse: s-maj=17.3km s-min=14.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.3km az=127.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 23 25 13.2–.10**	**39.97N**	**142.32E**	**36–1**	**4.0**		
								¶16449582

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 23 30 32.4–.20**	**35.96N**	**141.20E**	**22–3**	**3.4**		
								¶17195014

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 23 33 09.7–.60**	**36.78N–.06**	**140.56E–.05**	**10**	**4.0b**	**34**	**0-147**
NIED	III	13 23 33 00	36.80N	140.60E	5	3.8W		¶16449588
ISCJB	III	13 23 33 07.9–.49	36.72N–.04	140.65E–.05	10	3.9b,3.3s		
IDC	III	13 23 33 08.2–.67	36.80N	140.30E	0	4.1,3.9		
JMA	III	13 23 33 09.9–.20	36.79N	140.58E	1–2	4.0,3.9		
NEIC	III	13 23 33 15.7–1.8	36.81N	140.31E	56–16	4.2b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ34.00000°,λ-107.00000°. NP2:ϕ_s177.00000°,δ57.00000°,λ-79.00000°. $M_0$5.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.3km az=137.0.
IDC Error ellipse: s-maj=21.5km s-min=16.4km az=90.0.
JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=15.4km s-min=12.9km az=101.0. Recorded [2 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

JMA	**III**	**13 23 37 51.7–.20**	**38.87N**	**142.30E**	**28–2**	**4.1**		
								¶602656966

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 23 41 28.8–.91**	**36.69N–.03**	**140.91E–.05**	**46–8**	**4.7b**	**240**	**0-147**
NIED	III	13 23 41 00	36.70N	141.00E	50	4.6W		¶16311615
MOS	III	13 23 41 24.5–.96	36.66N	140.81E	23	4.9b		
NEIC	III	13 23 41 27.9–.39	36.71N	140.81E	32–2	4.7b		
IDC	III	13 23 41 28.8–1.9	36.64N	140.81E	45–20	4.5,4.3		
JMA	III	13 23 41 28.4–.10	36.65N	140.96E	49–2	4.6,4.3		
ISCJB	III	13 23 41 29.0–.39	36.64N–.03	140.82E–.04	58–3	4.6b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ7.00000°,λ64.00000°. NP2:ϕ_s22.00000°,δ83.00000°,λ93.00000°. $M_0$8.68000×10^{15}
NEIC Event type fe. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 23 42 26.1–.68**	**37.47N–.09**	**143.82E–.09**	**35**	**4.3b**	**28**	**2-153**
JMA	III	13 23 42 18.9–.10	37.33N	141.40E	43–2	4.3		¶16453137
IDC	III	13 23 42 21.1–.70	37.60N	143.81E	0	4.4,4.2		
ISCJB	III	13 23 42 23.8–.59	37.40N–.07	143.83E–.09	33	4.3b,4.2		
NEIC	III	13 23 42 26.5–.49	37.51N	143.91E	35	4.3b,4.2		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.6km s-min=17.8km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=8.5km az=42.7.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=9.9km az=159.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**13 23 53 48.9–.41**	**35.78N–.04**	**141.14E–.04**	**25–2**	**4.8b,4.2s**	**366**	**0-155**
NIED	III	13 23 53 00	35.80N	141.10E	32	5.0W,4.2s		¶16311616
NEIC	III	13 23 53 46.4–2.0	35.76N	141.00E	5–12	4.9b,4.2s		
GCMT	III	13 23 53 46.4–.30	35.72N	141.18E	43–1	5.0W,4.2s		
JMA	III	13 23 53 49.5–.20	35.79N	141.08E	35–1	4.9,4.2s		
MOS	III	13 23 53 50.7–.80	36.14N	140.87E	33	5.0b,4.2s		
ISCJB	III	13 23 53 50.2–.39	35.72N–.03	140.98E–.03	42–3	4.8b,4.2s		
IDC	III	13 23 53 50.8–1.8	35.69N	140.97E	40–17	4.6,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ48.00000°,λ-30.00000°. NP2:ϕ_s246.00000°,δ68.00000°,λ-134.00000°. $M_0$3.19000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=132.0. Recorded [3 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c53; s88,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.08±.19 $M_{\theta\theta}$2.12±.13; $M_{\phi\phi}$-3.20±.13; $M_{r\theta}$1.35±.13; $M_{\theta\phi}$-2.49±.09; $M_{\phi r}$2.05±.13; Best double couple: NP1:ϕ_s244.00000°,δ89.00000°,λ-151.00000°. NP2:ϕ_s154.00000°,δ61.00000°,λ-2.00000°. Principal axes:
T 3.2800,Plg19.0000°,Azm15.0000°; N 1.8390,Plg61.0000°,Azm247.0000°
; P -5.1190,Plg21.0000°,Azm113.0000° $M_0$4.20000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.0km az=44.9.
IDC Error ellipse: s-maj=13.5km s-min=9.0km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 00 01 43.9–.79**	**35.69N–.04**	**140.87E–.07**	**28–5**	**4.0b**	**44**	**0-148**
NIED	III	14 00 01 00	35.70N	140.80E	29	4.3W		¶16461675
JMA	III	14 00 01 43.4–.10	35.73N	140.83E	31–1	4.5		
ISCJB	III	14 00 01 43.1–.52	35.67N–.04	140.90E–.07	34–4	3.9b		
IDC	III	14 00 01 47.6–1.6	35.58N	140.87E	63–16	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ67.00000°,λ170.00000°. NP2:ϕ_s358.00000°,δ81.00000°,λ24.00000°. $M_0$3.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=178.1.
IDC Error ellipse: s-maj=16.0km s-min=9.7km az=92.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 00 20 51.3–.10**	**36.63N**	**140.63E**	**48–1**	**3.7**		
								¶602660345

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 00 22 48.4–.30**	**36.91N–.04**	**141.82E–.04**	**19**	**5.0b,4.5s**	**492**	**1-155**
NIED	III	14 00 22 00	36.90N	141.70E	17	4.8W,4.5s		¶16331060
IDC	III	14 00 22 44.8–.45	36.81N	141.88E	0	4.7,4.7b		
BJI	III	14 00 22 47.0	36.89N	141.73E	24	5.1b,5.0b		
ISCJB	III	14 00 22 47.1–.13	36.90N–.02	141.80E–.02	19	4.9b,4.5s		
NEIC	III	14 00 22 47.1–1.7	36.91N	141.77E	10–10	5.0b,4.5s		
MOS	III	14 00 22 49.9–.78	37.12N	141.81E	33	5.2b,4.7s		
JMA	III	14 00 22 49.7–.30	36.88N	141.72E	42–3	5.0,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ9.00000°,λ100.00000°. NP2:ϕ_s16.00000°,δ81.00000°,λ88.00000°. $M_0$1.89000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=11.2km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=155.4.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=133.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=107.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(502) Arkansas

ISC	**III**	**14 00 23 24.2–1.4**	**35.27N–.03**	**92.35W–.04**	**4–10**		**41**	**1-8**
NEIC	III	14 00 23 25.0	35.26N	92.35W	6	2.6		¶16918862

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

(246) Southwestern Ryukyu Islands

JMA	**III**	**14 00 27 54.7**	**24.37N**	**123.48E**	**17–1**	**3.8**		
								¶602660335

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 00 42 29.0–.20**	**38.31N**	**141.67E**	**33**	**4.0**		
								¶602660316

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 00 55 49.6–.43**	**35.48N–.04**	**140.91E–.07**	**33**	**4.2b**	**68**	**0-148**
NIED	III	14 00 55 00	35.50N	141.10E	41	4.4W		¶16453148
IDC	III	14 00 55 44.6–.52	35.48N	140.89E	0	4.3,4.2		
ISCJB	III	14 00 55 47.6–.33	35.45N–.04	141.07E–.06	33	4.2b,4.2		
NEIC	III	14 00 55 48.6–1.3	35.45N	140.87E	27–9	4.3b,4.2		
JMA	III	14 00 55 48.7–.20	35.55N	141.11E	36–1	3.9,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s9.00000°,δ70.00000°,λ89.00000°. $M_0$4.76000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=12.4km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.4km az=171.5.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

JMA	**III**	**14 00 56 18.2–.70**	**37.74N**	**142.36E**	**20**	**4.2**		
								¶602660289

JMA Event type fe. Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 01 02 40.1–.33**	**36.44N–.02**	**141.07E–.03**	**24–2**	**5.9b,5.6s**	**1669**	**1-158**
NIED	III	14 01 02 00	36.50N	141.10E	8	5.7W,5.6s		¶602443480
BJI	III	14 01 02 38.0	36.40N	140.90E	11	6.0s,5.8b		
GCMT	III	14 01 02 38.6–.10	36.43N	141.08E	12	5.7W,5.8b		
JMA	III	14 01 02 38.7	36.46N	141.13E	32–2	6.2,5.8b		
NEIC	III	14 01 02 38.6–.08	36.41N	140.89E	11	6.4,6.0b		
ISCJB	III	14 01 02 39.6–.50	36.41N–.02	140.96E–.02	27–3	5.8b,5.6s		
MOS	III	14 01 02 39.9–.94	36.45N	140.96E	30	6.0b,5.6s		
IDC	III	14 01 02 40.6–.44	36.46N	140.97E	22–2	5.5,5.5s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ63.00000°,λ-160.00000°. NP2:ϕ_s227.00000°,δ72.00000°,λ-28.00000°. $M_0$3.91000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c188; s131,c292;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.55±.04 $M_{\theta\theta}$-2.98±.04; $M_{\phi\phi}$4.53±.04; $M_{r\theta}$1.22±.11; $M_{\theta\phi}$1.24±.04; $M_{\phi r}$0.30±.11; Best double couple: NP1:ϕ_s230.00000° ,δ74.00000°,λ-24.00000°. NP2:ϕ_s327.00000°,δ67.00000°,λ-163.00000°. Principal axes: T 4.7680,Plg5.0000°,Azm280.0000°; N -0.9820,Plg62.0000°,Azm18.0000° ; P -3.7860,Plg28.0000°,Azm187.0000° $M_0$4.27700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=134.0. Felt [III] at Sagamihara. Also felt at Atsugi, Miura, Mizuho, Tachikawa, Tokyo, Tsukuba and Yokosuka. Recorded [5L JMA] in Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17} Nm; M_{rr}1.88 $M_{\theta\theta}$0.05 $M_{\phi\phi}$-1.93 $M_{r\theta}$-0.53 $M_{\theta\phi}$-1.68 $M_{\phi r}$0.07 Best double couple: NP1: ϕ_s7.00000°,δ48.00000°,λ57.00000°. NP2:ϕ_s231.00000°,δ52.00000°,λ121.00000°. Principal axes: T 2.1100,Plg66.0000°,Azm205.0000°; N 0.7900,Plg24.0000°,Azm31.0000° ; P -2.9000,Plg2.0000°,Azm300.0000° $M_0$2.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s31.00000°,δ85.00000°,λ-165.00000°. NP2: ϕ_s300.00000°,δ75.00000°,λ-5.00000°. Principal axes: T Plg7.0000°,Azm165.0000° ; N Plg0.0000°,Azm0.0000°; P Plg14.0000°,Azm257.0000°

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=160.6.

MOS Error ellipse: s-maj=5.8km s-min=3.6km az=106.8.

IDC Error ellipse: s-maj=10.7km s-min=7.7km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 01 12 06.8–1.2**	**35.85N–.08**	**140.97E–.09**	**27–8**	**4.1b**	**24**	**0-148**
JMA	III	14 01 12 06.5–.20	35.87N	140.91E	29–2	3.9		¶17195033
ISCJB	III	14 01 12 06.4–.72	35.83N–.07	140.9E–.10	36–6	4.1b		
IDC	III	14 01 12 08.8–3.4	35.75N	140.87E	44–33	4.2,4.1		

ISC Event type ke.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=9.4km az=149.8.

IDC Error ellipse: s-maj=22.1km s-min=17.2km az=91.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 01 13 10.0–1.4**	**35.8N–.10**	**141.1E–.10**	**28–9**	**4.2b**	**23**	**0-148**
IDC	III	14 01 13 06.0–1.1	35.79N	140.95E	0	4.2,4.1		¶16409287
ISCJB	III	14 01 13 09.0–1.0	35.8N–.10	141.1E–.10	35–8	4.1b,4.1		
JMA	III	14 01 13 10.0–.20	35.87N	140.93E	31–2	4.0,4.1		
NEIC	III	14 01 13 11.1–.57	35.77N	141.09E	35	4.5b,4.1		

ISC Event type se.

IDC Error ellipse: s-maj=28.9km s-min=24.4km az=5.0.

ISCJB Event type fe. Error ellipse: s-maj=18.3km s-min=15.9km az=32.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=14.0km s-min=12.4km az=173.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 01 40 29.4**	**36.46N**	**141.07E**	**31–1**	**3.9**		
								¶602660245

JMA Event type fe.

(49) Gulf of California

ISC	**III**	**14 01 43 48.9–.58**	**25.47N–.03**	**109.75W–.04**	**10**	**4.0b**	**78**	**1-46**
ISCJB	III	14 01 43 47.7–.38	25.49N–.03	109.84W–.06	10	4.0b		¶16449600
IDC	III	14 01 43 48.2–1.3	25.12N	109.30W	0	4.1,3.9b		
NEIC	III	14 01 43 49.3–.65	25.42N	109.77W	10	4.1,4.0b		
MEX	III	14 01 43 49.7–.61	25.56N	109.80W	4–8	4.1,4.0b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.9km az=2.5.

IDC Error ellipse: s-maj=28.0km s-min=11.0km az=128.0.

NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=7.7km az=76.0. Felt at Los Mochis, Sinaloa.

MEX Error ellipse: s-maj=3.1km s-min=3.1km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 01 50 50.7–.75**	**39.53N–.08**	**142.48E–.07**	**29**	**3.9b**	**24**	**1-75**
NIED	III	14 01 50 00	39.50N	142.60E	20	4.1W		¶17195042
JMA	III	14 01 50 48.3–.30	39.51N	142.55E	8–4	4.0		
ISCJB	III	14 01 50 48.5–.59	39.47N–.07	142.61E–.06	29	3.8b		
IDC	III	14 01 50 52.8–3.5	39.48N	142.52E	48–33	3.9,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ9.00000°,λ177.00000°. NP2:ϕ_s315.00000°,δ90.00000°,λ81.00000°. $M_0$1.83000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.5km az=3.3.

IDC Error ellipse: s-maj=21.2km s-min=16.0km az=119.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 02 11 29.2–.48**	**36.34N–.05**	**140.83E–.07**	**10**	**4.6b**	**89**	**1-147**
NIED	III	14 02 11 00	36.50N	141.10E	5	4.3W		¶16339084
JMA	III	14 02 11 25.1–.10	36.49N	141.11E	40–3	4.5		
NEIC	III	14 02 11 29.0–.41	36.38N	140.92E	35	4.6b		
ISCJB	III	14 02 11 28.9–.22	36.34N–.03	140.66E–.04	10	4.4b		
IDC	III	14 02 11 29.9–2.3	36.37N	140.86E	48–22	4.1,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ61.00000°,λ-158.00000°. NP2:ϕ_s219.00000°,δ70.00000°,λ-31.00000°. $M_0$3.28000×10^{15}

JMA Event type fe.

NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.3km az=128.0.

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.0km az=153.4.

IDC Error ellipse: s-maj=16.8km s-min=12.7km az=87.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 02 20 07.4–.10**	**36.47N**	**141.13E**	**27–1**	**3.9**		
								¶602660191

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 02 20 39.9–.20**	**38.26N**	**141.86E**	**52**	**3.7**		
								¶603145361

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 02 26 24.6–.50**	**35.77N–.04**	**141.30E–.05**	**26**	**4.0b**	**46**	**0-147**
NIED	III	14 02 26 00	35.70N	141.40E	20	4.2W		¶16409298
ISCJB	III	14 02 26 23.0–.38	35.81N–.04	141.43E–.05	26	4.1b		
JMA	III	14 02 26 23.2–.20	35.75N	141.42E	34–2	4.0		
NEIC	III	14 02 26 27.7–1.4	35.94N	141.34E	47–13	4.4b		
IDC	III	14 02 26 27.0–3.5	35.95N	141.35E	38–30	4.2L,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ48.00000°,λ-130.00000°. NP2:ϕ_s133.00000°,δ55.00000°,λ-55.00000°. $M_0$2.19000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.4km az=146.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=8.9km s-min=8.3km az=85.0.

IDC Error ellipse: s-maj=17.8km s-min=13.8km az=97.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 03 01 46.4–1.5**	**38.73N–.05**	**142.08E–.08**	**42–13**	**4.1b**	**49**	**1-150**
IDC	III	14 03 01 40.3–.56	38.75N	142.02E	0	4.2,4.1		¶16410974
JMA	III	14 03 01 45.9–.20	38.80N	142.06E	36–2	4.1,4.1		
ISCJB	III	14 03 01 45.7–.84	38.75N–.04	142.05E–.08	52–7	4.1b,4.1		
NEIC	III	14 03 01 47.2–.75	38.77N	142.04E	49–6	4.5b,4.1		

ISC Event type se.

IDC Error ellipse: s-maj=19.5km s-min=14.7km az=97.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.3km az=21.3.

NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.5km az=118.0.

(229) Off east coast of Honshu

ISC	**III**	**14 03 10 00.4–.45**	**36.19N–.06**	**142.37E–.06**	**18**	**4.7b**	**95**	**1-152**
NIED	III	14 03 09 00	36.30N	142.70E	17	4.5W		¶16407524
JMA	III	14 03 09 54.7–.60	36.31N	142.69E	16	4.8		
NEIC	III	14 03 09 55.4–.38	37.34N	139.15E	35	4.8b		
ISCJB	III	14 03 09 58.4–.25	36.24N–.04	142.45E–.05	18	4.6b		
IDC	III	14 03 09 58.1–.54	36.23N	142.35E	0	4.6,4.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ52.00000°,λ49.00000°. NP2:ϕ_s259.00000°,δ53.00000°,λ130.00000°. $M_0$5.96000×10^{15}

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=17.9km s-min=8.7km az=119.0. Recorded [3 JMA] in Gumma.

ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=142.2.

IDC Error ellipse: s-maj=15.7km s-min=14.2km az=113.0.

(227) Eastern Honshu

ISC	**III**	**14 03 10 05.4–1.1**	**36.84N–.05**	**138.56E–.04**	**12–15**		**16**	**0-7**
NIED	III	14 03 10 00	36.80N	138.60E	5	4.2W		¶16313308
ISCJB	III	14 03 10 04.9–.62	36.78N–.04	138.56E–.05	30–6	4.2W		
JMA	III	14 03 10 05.4–.10	36.84N	138.59E	0–2	3.5		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ75.00000°,λ-2.00000°. NP2:ϕ_s107.00000°,δ88.00000°,λ-165.00000°. $M_0$2.24000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.9km az=138.8.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s19.00000°,δ80.00000°,λ-21.00000°. NP2:ϕ_s113.00000°,δ69.00000°,λ-169.00000°. Principal axes: T Plg7.0000°,Azm67.0000°; N Plg67.0000°,Azm174.0000°; P Plg22.0000° ,Azm334.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**14 03 10 08.8–.81**	**38.59N–.07**	**141.88E–.07**	**44–5**	**4.5b**	**100**	**1-116**
IDC	III	14 03 10 02.8–1.9	38.51N	141.86E	0	4.4,4.3b		¶16477711
NEIC	III	14 03 10 07.9–2.1	38.35N	141.88E	42–16	4.9b,4.3b		
JMA	III	14 03 10 10.4–.30	38.65N	141.87E	53–4	4.6,4.3b		
ISCJB	III	14 03 10 10.8–1.0	38.72N–.07	141.80E–.08	65–6	4.5b,4.3b		

ISC Event type se.

NEIC Event type se.

JMA Event type fe.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 03 15 52.3–.44**	**36.22N–.03**	**142.16E–.03**	**31–2**	**5.5b,5.1s**	**1262**	**1-165**
NIED	III	14 03 15 00	36.40N	141.70E	5	5.3W,5.1s		¶16311629
IDC	III	14 03 15 48.1–.39	36.31N	142.19E	0	4.9s,4.9		
BJI	III	14 03 15 48.4	36.30N	142.10E	16	5.5s,5.4b		
ISCJB	III	14 03 15 49.6–.78	36.27N–.02	142.15E–.02	20–5	5.4b,5.1s		
GCMT	III	14 03 15 50.5–.20	36.40N	142.33E	12	5.3W,5.1s		
NEIC	III	14 03 15 50.5–.11	36.28N	142.08E	16	5.7b,5.4W		
MOS	III	14 03 15 52.7–.91	36.53N	142.10E	33	5.8b,5.1s		
JMA	III	14 03 15 56.2–.30	36.35N	141.65E	30–4	5.5,5.1s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ37.00000°,λ134.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ63.00000°. $M_0$9.26000×10^{16}

IDC Error ellipse: s-maj=11.3km s-min=10.8km az=111.0.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=156.2.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s67,c120; s97,c200;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.85±.02 $M_{\theta\theta}$-0.53±.02; $M_{\phi\phi}$-0.32±.02; $M_{r\theta}$-0.21±.05; $M_{\theta\phi}$-0.73±.01; $M_{\phi r}$0.69±.05; Best double couple: NP1: ϕ_s19.00000°,δ62.00000°,λ53.00000°. NP2:ϕ_s257.00000°,δ45.00000°,λ138.00000°. Principal axes: T 1.3130,Plg56.0000°,Azm239.0000°; N -0.1000,Plg32.0000°,Azm39.0000° ; P -1.2130,Plg9.0000°,Azm135.0000° $M_0$1.26300×10^{17}

NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=143.0. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.01 $M_{\theta\theta}$-0.27 $M_{\phi\phi}$-0.73 $M_{r\theta}$0.13 $M_{\theta\phi}$-1.08 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s235.00000°,δ39.00000°,λ113.00000°. NP2:ϕ_s26.00000° ,δ54.00000°,λ72.00000°. Principal axes: T 1.0900,Plg74.0000°,Azm246.0000° ; N 0.5700,Plg14.0000°,Azm36.0000°; P -1.6600,Plg8.0000°,Azm129.0000° $M_0$1.50000×10^{17}

MOS Error ellipse: s-maj=6.3km s-min=4.0km az=110.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**14 03 18 46.3–.50**	**39.26N–.04**	**144.43E–.04**	**28–2**	**5.3b,5.3s**	**903**	**2-158**
IDC	III	14 03 18 41.8–.47	39.13N	144.43E	0	5.0,4.9		¶16477713
ISCJB	III	14 03 18 42.0–.89	39.21N–.03	144.40E–.02	9–5	5.3s,5.2b		
MOS	III	14 03 18 43.8–.96	39.13N	144.44E	24	5.6b,5.2b		
JMA	III	14 03 18 44.3–.40	39.29N	144.44E	47	5.2,5.2b		
BJI	III	14 03 18 45.1	39.42N	144.40E	28	5.4b,5.4s		
GCMT	III	14 03 18 46.3–.30	39.45N	144.51E	18–1	5.2W,5.4s		
NEIC	III	14 03 18 46.3–1.3	39.16N	144.40E	30–9	5.4b,5.4s		

ISC Event type se.

IDC Error ellipse: s-maj=13.2km s-min=11.0km az=153.0.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=167.7.

MOS Error ellipse: s-maj=7.3km s-min=5.1km az=100.0.

JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c32; s77,c106; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.04 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$0.62±.03; $M_{r\theta}$-0.04±.08; $M_{\theta\phi}$-0.04±.02; $M_{\phi r}$-0.58±.07; Best double couple: NP1:ϕ_s1.00000°,δ66.00000° ,λ-86.00000°. NP2:ϕ_s171.00000°,δ25.00000°,λ-99.00000°. Principal axes: T 0.8360,Plg20.0000°,Azm88.0000°; N 0.0870,Plg4.0000°,Azm179.0000° ; P -0.9230,Plg69.0000°,Azm278.0000° $M_0$0.88000×10^{17}

NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=144.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 03 20 41.5–.65**	**36.66N–.04**	**141.88E–.04**	**33–2**	**5.3s,5.2b**	**813**	**1-154**
NIED	III	14 03 20 00	36.70N	141.80E	26	5.1W,5.2b		¶16407526
IDC	III	14 03 20 36.6–.42	36.63N	141.75E	0	5.0,4.9		
BJI	III	14 03 20 38.7	36.68N	141.81E	27	5.5b,5.4s		
NEIC	III	14 03 20 41.7–1.6	36.64N	141.72E	33–11	5.2b,5.4s		
GCMT	III	14 03 20 41.7–.40	36.73N	141.98E	32–0	5.3W,5.4s		
ISCJB	III	14 03 20 41.1–.48	36.60N–.03	141.81E–.02	40–4	5.2s,5.1b		
MOS	III	14 03 20 41.6–.89	36.91N	141.80E	33	5.4b,5.1b		
JMA	III	14 03 20 42.0–.40	36.68N	141.75E	40–5	5.3,5.1b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s16.00000°,δ56.00000°,λ-87.00000°. $M_0$4.57000×10^{16}

IDC Error ellipse: s-maj=12.6km s-min=11.3km az=103.0.

NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=160.0.

GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c50; s85,c123; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.88±.04 $M_{\theta\theta}$0.06±.03; $M_{\phi\phi}$0.81±.03; $M_{r\theta}$-0.16±.04; $M_{\theta\phi}$0.10±.01; $M_{\phi r}$-0.36±.03; Best double couple: NP1:ϕ_s14.00000°,δ57.00000° ,λ-83.00000°. NP2:ϕ_s182.00000°,δ33.00000°,λ-101.00000°. Principal axes: T 0.9100,Plg12.0000°,Azm99.0000°; N 0.0580,Plg6.0000°,Azm191.0000° ; P -0.9670,Plg77.0000°,Azm306.0000° $M_0$0.93900×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=172.0.

MOS Error ellipse: s-maj=7.5km s-min=4.8km az=106.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**14 03 24 42.5–.58**	**37.77N–.06**	**142.65E–.07**	**14**	**4.5b**	**56**	**2-145**
NIED	III	14 03 24 00	37.90N	142.50E	11	4.5W		¶16424474
IDC	III	14 03 24 40.7–.69	37.80N	142.69E	0	4.5,4.4		
ISCJB	III	14 03 24 40.7–.43	37.75N–.04	142.74E–.05	14	4.5b,4.4		
NEIC	III	14 03 24 42.9–2.8	37.83N	142.66E	14–17	4.6b,4.4		
JMA	III	14 03 24 42.9–.40	37.92N	142.45E	0	4.6,4.4		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ19.00000°,λ-154.00000°. NP2:ϕ_s69.00000°,δ82.00000°,λ-73.00000°. $M_0$6.73000×10^{15}

IDC Error ellipse: s-maj=17.5km s-min=16.0km az=131.0.

ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.1km az=136.8.

NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=130.0.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 03 35 10.3–1.5**	**37.26N–.09**	**141.32E–.09**	**34–4**	**3.7b**	**21**	**0-147**
IDC	III	14 03 34 58.5–.97	36.38N	141.71E	0	3.9,3.8		¶600544869
ISCJB	III	14 03 35 08.6–1.5	37.18N–.09	141.5E–.10	50–11	3.8b,3.8		
JMA	III	14 03 35 11.3–.10	37.32N	141.30E	33–1	4.0,3.8		

ISC Event type ke.

IDC Error ellipse: s-maj=27.8km s-min=22.4km az=46.0.

ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=15.5km az=19.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 03 43 29.6–.10**	**36.34N**	**140.91E**	**38–1**	**3.5**		
								¶602660098

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 03 51 19.7–1.2**	**35.89N–.09**	**141.0E–.10**	**31**	**3.9b**	**9**	**0-56**

NIED III 14 03 51 00 36.00N 141.10E 8 3.9W ¶17195058
IDC III 14 03 51 15.1–1.3 35.86N 141.22E 0 4.0,3.8
JMA III 14 03 51 18.6–.10 35.98N 141.12E 25–2 3.7,3.8
ISCJB III 14 03 51 18.1–1.0 35.93N–.08 141.1E–.10 31 3.8b,3.8
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s217.00000°,δ22.00000°,λ-55.00000°. NP2:ϕ_s360.00000°,δ72.00000°,λ-103.00000°. $M_0$7.15000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 14 03 58 07.3–.10 37.41N 141.49E 37–2 3.7
¶602660094
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 04 01 19.8–.20 38.49N 142.04E 40–4 3.9
¶602660092
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 04 08 41.1–.10 37.24N 141.07E 20–1 3.7
¶603049747
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 14 04 20 36.3–.10 37.51N 141.38E 28–2 3.6
¶603049757
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 14 04 35 55.3–.10 36.57N 141.02E 33–1 3.5
¶602660052
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 04 44 10.3–.72 36.74N–.07 141.83E–.07 19 3.9b 28 1-90
NIED III 14 04 44 00 36.60N 141.40E 23 4.0W ¶16311638
IDC III 14 04 44 07.1–.64 36.86N 142.44E 0 4.1,4.0
ISCJB III 14 04 44 09.3–.53 36.65N–.04 141.90E–.06 19 3.9b,4.0
NEIC III 14 04 44 10.8–.78 36.79N 142.29E 35 4.3b,4.0
JMA III 14 04 44 15.0–.40 36.63N 141.43E 47–4 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ45.00000°,λ132.00000°. NP2:ϕ_s324.00000°,δ58.00000°,λ57.00000°. $M_0$1.14000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=14.9km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.6km az=148.6.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.9km az=141.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 04 45 37.2–.60 37.27N–.05 141.58E–.05 45–5 4.7b 182 1-146
NIED III 14 04 45 00 37.30N 141.50E 44 4.7W ¶602443485
IDC III 14 04 45 31.1–.50 37.31N 141.49E 0 4.7,4.6
ISCJB III 14 04 45 36.4–.63 37.25N–.03 141.54E–.05 50–5 4.7b,3.8s
NEIC III 14 04 45 37.8–.73 37.28N 141.44E 46–7 4.8b,3.8s
JMA III 14 04 45 37.8–.10 37.35N 141.51E 40–2 4.7,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ89.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=12.2km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=12.5.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=5.3km az=141.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 04 48 17.5–.10 36.03N 141.09E 28–2 3.7
¶602660040
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 04 59 04.7–.20 37.20N 141.38E 46–2 3.9
NIED III 14 04 59 00 37.20N 141.40E 47 4.7W ¶603049748
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ20.00000°,λ171.00000°. NP2:ϕ_s187.00000°,δ87.00000°,λ71.00000°. $M_0$1.17000×10^{16}
(228) Near east coast of eastern Honshu
JMA III 14 05 12 08.4–.20 39.26N 142.34E 23–3 3.8
¶603049749
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 05 26 50.1–2.3 38.70N–.09 142.24E–.09 13–12 3.7b 15 1-76
IDC III 14 05 26 42.2–4.3 37.52N 142.29E 0 3.9,3.8 ¶602660016
JMA III 14 05 26 54.3–.10 38.77N 142.16E 34–2 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=117.4km s-min=30.1km az=2.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 05 27 02.8–.50 35.89N–.05 142.21E–.06 23 4.0b 55 2-147
IDC III 14 05 27 04.2–.55 35.92N 142.14E 29–2 3.9,3.8 ¶17195078
NEIC III 14 05 27 12.0–1.0 35.28N 142.29E 35 4.7b,3.8
JMA III 14 05 27 18.1–.30 36.77N 141.88E 37–4 4.5,3.8
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.9km az=75.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=13.9km az=122.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 05 37 17.4–1.9 37.35N–.05 141.21E–.08 28–13 4.1b 55 0-147
NIED III 14 05 37 00 37.50N 141.20E 14 3.9W ¶16461685
IDC III 14 05 37 13.6–.60 37.47N 141.11E 0 4.3,4.1
ISCJB III 14 05 37 17.3–.92 37.35N–.04 141.24E–.08 42–8 4.1b,4.1
JMA III 14 05 37 18.1 37.49N 141.18E 23–1 4.1,4.1
NEIC III 14 05 37 18.3–.36 37.34N 141.16E 35 4.2b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ27.00000°,λ119.00000°. NP2:ϕ_s56.00000°,δ67.00000°,λ76.00000°. $M_0$8.54000×10^{14}
IDC Error ellipse: s-maj=17.9km s-min=14.5km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.9km az=162.6.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.5km az=116.0.
(228) Near east coast of eastern Honshu
JMA III 14 05 52 41.6–.10 39.04N 142.42E 23–2 3.9
¶602660786
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 14 05 53 20.6–2.7 36.34N–.04 142.15E–.05 1–17 4.8b,3.7s 287 1-147
NIED III 14 05 53 00 36.40N 142.20E 8 4.8W,3.7s ¶602660784
IDC III 14 05 53 20.2–.50 36.34N 142.14E 0 4.5,4.4
ISCJB III 14 05 53 22.8–1.5 36.36N–.03 142.08E–.04 22–10 4.6b,3.5s
JMA III 14 05 53 22.7–.40 36.41N 142.21E 66 4.9,3.5s
NEIC III 14 05 53 23.9–2.6 36.39N 142.03E 18–16 4.8b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ37.00000°,λ90.00000°. NP2:ϕ_s303.00000°,δ53.00000°,λ90.00000°. $M_0$1.68000×10^{16}
IDC Error ellipse: s-maj=13.3km s-min=11.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=40.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=147.0.
(228) Near east coast of eastern Honshu
JMA III 14 05 55 22.0–.10 37.38N 141.38E 41–2 3.8
¶602660783
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 14 06 12 36.7–.32 37.78N–.03 142.50E–.02 19–1 6.0b,6.0s 2153 2-161
NIED III 14 06 12 00 37.80N 142.60E 17 6.0W,6.0s ¶602443509
BJI III 14 06 12 30.2 37.80N 142.75E 10 6.5s,6.4
ISCJB III 14 06 12 32.5–.65 37.76N–.02 142.52E–.01 2–4 6.0s,6.0b
IDC III 14 06 12 33.7–.29 37.76N 142.53E 0 6.1s,6.0
JMA III 14 06 12 33.9–.30 37.80N 142.59E 7 6.5,6.0
NEIC III 14 06 12 36.0–.00 37.77N 143.02E 15 6.5,6.0
GCMT III 14 06 12 36.1–.10 37.77N 142.62E 20–0 6.0W,6.0
NEIC III 14 06 12 36.1–.06 37.79N 142.46E 14 6.3,6.0W
MOS III 14 06 12 37.7–.80 37.89N 142.50E 33 6.2b,6.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ40.00000°,λ-177.00000°. NP2:ϕ_s47.00000°,δ88.00000°,λ-50.00000°. $M_0$1.03000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=160.9.
IDC Error ellipse: s-maj=10.4km s-min=8.4km az=90.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ79.00000°,λ-71.00000°. NP2:ϕ_s153.00000°,δ21.00000°,λ-149.00000°. Principal axes: T 1.2300,Plg31.0000°,Azm109.0000°; N -0.1100,Plg18.0000°,Azm210.0000° ; P -1.1200,Plg52.0000°,Azm326.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c270; s137,c359;Duration: 2s5 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.54±.01 $M_{\theta\theta}$-0.34±.01; $M_{\phi\phi}$0.87±.01; $M_{r\theta}$-0.69±.02; $M_{\theta\phi}$0.13±.01; $M_{\phi r}$-0.81±.02; Best double couple: NP1:ϕ_s36.00000°,δ76.00000°,λ-66.00000°. NP2:ϕ_s153.00000°,δ28.00000°,λ-149.00000°. Principal axes: T 1.3490,Plg27.0000°,Azm107.0000°; N -0.0640,Plg23.0000°,Azm209.0000° ; P -1.2850,Plg53.0000°,Azm334.0000° $M_0$1.31700×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=138.0. Recorded [4 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ79.00000°,λ-69.00000°. NP2:ϕ_s143.00000°,δ24.00000°,λ-152.00000°. Principal axes: T 1.0700,Plg31.0000°,Azm99.0000°; N 0.0300,Plg21.0000°,Azm202.0000° ; P -1.1000,Plg51.0000°,Azm321.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ5.00000°,λ-90.00000°. NP2: ϕ_s45.00000°,δ85.00000°,λ-90.00000°. Principal axes: T Plg40.0000°,Azm135.0000° ; N Plg0.0000°,Azm0.0000°; P Plg50.0000°,Azm315.0000°
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=106.2.
(228) Near east coast of eastern Honshu
JMA III 14 06 16 23.1–.30 36.42N 141.63E 53 3.9
¶602660757
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 14 06 17 49.0–.45 37.67N–.05 142.53E–.06 21 5.0b 84 2-151
ISCJB III 14 06 17 47.1–.32 37.69N–.03 142.62E–.04 21 5.5s,4.8b ¶602660755
JMA III 14 06 17 47.6–.30 37.72N 142.43E 4 5.3,4.8b
NEIC III 14 06 17 49.7–1.6 37.69N 142.60E 25–11 4.7b,4.8b
IDC III 14 06 17 51.5–2.9 37.70N 142.54E 38–24 4.8,4.6
BJI III 14 06 18 24.9 37.90N 138.30E 40 5.6,5.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=39.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.2km az=118.0.
IDC Error ellipse: s-maj=15.1km s-min=12.8km az=143.0.
(228) Near east coast of eastern Honshu
ISC III 14 06 18 30.4–1.5 37.43N–.04 141.39E–.05 24–10 5.2b 510 1-155
IDC III 14 06 18 26.8–.43 37.48N 141.31E 0 5.1,5.0 ¶16314282
MOS III 14 06 18 30.8–.75 37.56N 141.22E 33 5.4b,5.0
ISCJB III 14 06 18 30.6–.13 37.45N–.03 141.35E–.03 33 5.1b,5.0
JMA III 14 06 18 32.1–.10 37.47N 141.35E 27–1 5.2,5.0
NEIC III 14 06 18 32.3–.16 37.45N 141.23E 35 5.3b,5.0
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.1km az=106.0.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=77.5.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=149.3.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=139.0. Recorded [4 JMA] in Fukushima and Ibaraki.
(228) Near east coast of eastern Honshu
JMA III 14 06 19 41.7–.10 37.46N 141.33E 29–2 4.2
¶603049751
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 06 25 04.0–.10 37.47N 141.35E 27–2 3.8
¶602660753
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu
ISC III 14 06 27 25.2–.55 36.70N–.03 142.03E–.04 25–3 5.3s,5.2b 471 1-146
NIED III 14 06 27 00 36.70N 142.30E 14 5.2W,5.2b ¶16477752
JMA III 14 06 27 21.5–.40 36.73N 142.31E 20 5.3,5.2b
IDC III 14 06 27 26.4–2.5 36.61N 142.16E 40–22 5.0,5.0s
BJI III 14 06 27 26.1 36.71N 141.77E 35 5.6b,5.5s
ISCJB III 14 06 27 27.4–.56 36.80N–.03 141.89E–.03 44–4 5.3s,5.1b
GCMT III 14 06 27 27.3–.60 36.50N 142.06E 36–1 5.2W,5.1b
MOS III 14 06 27 27.5–.93 37.09N 141.96E 37 5.4b,5.1b
NEIC III 14 06 27 27.3–.26 36.63N 141.84E 35 5.1b,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ18.00000°,λ90.00000°. NP2:ϕ_s32.00000°,δ72.00000°,λ90.00000°. $M_0$6.71000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.8km s-min=11.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=142.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s4,c5; s74,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.44±.82 $M_{\theta\theta}$-1.06±.46; $M_{\phi\phi}$-5.38±.45; $M_{r\theta}$2.23±.30; $M_{\theta\phi}$-2.30±.18; $M_{\phi r}$1.46±.24; Best double couple: NP1:ϕ_s35.00000°,δ56.00000°,λ103.00000°. NP2:ϕ_s192.00000°,δ36.00000°,λ71.00000°. Principal axes: T 7.1070,Plg75.0000°,Azm344.0000°; N -0.3470,Plg11.0000°,Azm207.0000° ; P -6.7600,Plg10.0000°,Azm116.0000° $M_0$6.93400×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.5km az=112.4.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=145.0.
(227) Eastern Honshu
JMA III 14 06 38 51.7 36.93N 138.60E 4–1 3.5
¶602660743
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 14 06 43 53.7–.63 39.12N–.03 142.47E–.03 28–4 5.2s,5.2b 931 1-155
NIED III 14 06 43 00 39.20N 142.50E 29 5.1W,5.2b ¶16311647
JMA III 14 06 43 52.7–.10 39.18N 142.47E 19–2 5.2,5.2b
BJI III 14 06 43 52.6 39.05N 142.48E 37 5.5b,5.3s
ISCJB III 14 06 43 53.9–.39 39.08N–.02 142.40E–.02 39–3 5.1s,5.1b
MOS III 14 06 43 54.3–.87 39.17N 142.30E 39 5.3b,5.1b
GCMT III 14 06 43 55.8–.30 39.28N 142.45E 30–0 5.2W,5.1b
IDC III 14 06 43 55.2–2.3 39.09N 142.43E 38–19 4.9s,4.9
NEIC III 14 06 43 55.8–.44 39.07N 142.31E 41–4 5.2b,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ37.00000°,λ-121.00000°. NP2:ϕ_s195.00000°,δ59.00000°,λ-69.00000°. $M_0$5.20000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=147.8.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=102.8.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c51; s83,c123; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.04 $M_{\theta\theta}$0.03±.02; $M_{\phi\phi}$0.68±.03; $M_{r\theta}$0.21±.04; $M_{\theta\phi}$-0.07±.02; $M_{\phi r}$0.28±.03; Best double couple: NP1:ϕ_s190.00000°,δ57.00000°,λ-72.00000°. NP2:ϕ_s340.00000°,δ37.00000°,λ-115.00000°. Principal axes: T 0.7390,Plg11.0000°,Azm268.0000°; N 0.0870,Plg15.0000°,Azm0.0000° ; P -0.8260,Plg72.0000°,Azm143.0000° $M_0$0.78200×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=9.6km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=144.0. Recorded [3 JMA] in Aomori and Iwate.
(229) Off east coast of Honshu
ISC III 14 06 46 56.8–.72 37.90N–.04 142.93E–.04 25–4 5.3b,5.2s 1043 2-159
NIED III 14 06 46 00 37.90N 143.00E 11 5.1W,5.2s ¶16314284
ISCJB III 14 06 46 53.9–1.0 37.90N–.02 142.98E–.02 14–6 5.2b,5.2s
BJI III 14 06 46 55.3 37.88N 142.83E 27 5.6b,5.4s
JMA III 14 06 46 55.5–.40 37.93N 143.02E 33 5.4,5.4s
MOS III 14 06 46 57.9–.81 38.16N 142.88E 33 5.5b,5.4s
IDC III 14 06 46 57.5–4.2 37.89N 142.98E 29–29 5.0,5.0

NEIC III 14 06 46 58.7–.40 37.91N 142.90E 35–3 5.3b,5.0
GCMT III 14 06 46 58.7–.40 38.05N 142.84E 17–1 5.1W,5.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_s193.00000°,δ47.00000°,λ-101.00000°. M$_0$4.32000$\times10^{16}$
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=165.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=103.3.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=106.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.1km az=149.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s78,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$-4.92±.42 M$_{\theta\theta}$0.66±.24; M$_{\phi\phi}$4.27±.28; M$_{r\theta}$-0.48±.72; M$_{\theta\phi}$1.63±.12; M$_{\phi r}$-0.22±.56; Best double couple: NP1:ϕ_s25.00000°,δ47.00000°,λ-84.00000°. NP2:ϕ_s197.00000°,δ43.00000°,λ-96.00000°. Principal axes: T 4.9110,Plg2.0000°,Azm111.0000°; N 0.0560,Plg4.0000°,Azm201.0000°; P -4.9620,Plg85.0000°,Azm354.0000° M$_0$4.93700$\times10^{16}$

(228) Near east coast of eastern Honshu

ISC III 14 06 52 22.4–.58 36.90N–.03 141.24E–.04 44–5 5.2b,5.1s 1004 0-157
NIED III 14 06 52 00 37.00N 141.10E 53 5.1W,5.1s **¶600545003**
BJI III 14 06 52 17.5 36.78N 141.42E 34 5.6b,5.3s
MOS III 14 06 52 20.4–.97 37.01N 141.04E 34 5.3b,5.3s
JMA III 14 06 52 22.8–.10 36.96N 141.12E 52–1 5.2,5.3s
ISCJB III 14 06 52 23.2–.34 36.95N–.02 141.02E–.02 58–2 5.1b,5.0s
IDC III 14 06 52 24.0–1.6 36.97N 141.02E 56–15 4.9,4.7
GCMT III 14 06 52 25.1–.40 36.93N 141.11E 50–1 5.2W,4.7
NEIC III 14 06 52 25.1–.46 36.98N 140.97E 62–4 5.2b,4.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ44.00000°,λ56.00000°. NP2:ϕ_s178.00000°,δ55.00000°,λ118.00000°. M$_0$5.26000$\times10^{16}$
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=91.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=141.8.
IDC Error ellipse: s-maj=11.1km s-min=7.7km az=89.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c30; s64,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$6.04±.48 M$_{\theta\theta}$-0.67±.29; M$_{\phi\phi}$-5.36±.27; M$_{r\theta}$-2.23±.19; M$_{\theta\phi}$3.17±.17; M$_{\phi r}$-1.14±.19; Best double couple: NP1:ϕ_s174.00000°,δ49.00000°,λ120.00000°. NP2:ϕ_s313.00000°,δ49.00000°,λ60.00000°. Principal axes: T 7.0620,Plg68.0000°,Azm153.0000°; N -0.0970,Plg22.0000°,Azm333.0000°; P -6.9590,Plg0.0000°,Azm243.0000° M$_0$7.01000$\times10^{16}$
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=136.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC III 14 06 56 16.4–.89 36.43N–.08 140.62E–.10 73 4.1b 23 0-148
JMA III 14 06 56 14.5–.10 36.45N 140.72E 52–1 4.2 **¶16461690**
ISCJB III 14 06 56 15.1–.83 36.47N–.08 140.6E–.10 73 4.0b
IDC III 14 06 56 24.7–2.8 36.89N 140.51E 120–30 4.2,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=8.3km az=42.1.
IDC Error ellipse: s-maj=35.7km s-min=24.0km az=32.0.

(229) Off east coast of Honshu

ISC III 14 07 00 13.6–.51 39.32N–.04 143.42E–.04 19–1 5.1s,4.9b 423 2-154
NIED III 14 07 00 00 39.20N 143.70E 20 4.7W,4.9b **¶16311650**
JMA III 14 07 00 10.9–.20 39.23N 143.71E 37 5.1,4.9b
IDC III 14 07 00 10.0–.49 39.19N 143.50E 0 4.8,4.7
ISCJB III 14 07 00 11.5–.94 39.38N–.02 143.40E–.03 11–5 5.0s,4.8b
BJI III 14 07 00 12.7 39.31N 143.09E 13 5.6b,5.2s
MOS III 14 07 00 13.0–.99 39.42N 143.39E 22 5.1b,5.2s
NEIC III 14 07 00 14.9–1.3 39.23N 143.39E 28–9 5.0b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ80.00000°,λ174.00000°. NP2:ϕ_s336.00000°,δ84.00000°,λ10.00000°. M$_0$1.42000$\times10^{16}$
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=12.1km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=143.9.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=101.9.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.1km az=147.0.

(229) Off east coast of Honshu

ISC III 14 07 03 27.1–2.5 39.86N–.04 143.64E–.05 9–15 5.0b,4.7s 315 2-144
NIED III 14 07 03 00 39.90N 143.70E 11 5.1W,4.7s **¶16314731**
ISCJB III 14 07 03 26.7–1.1 39.85N–.02 143.63E–.04 14–7 4.9b,4.8s
JMA III 14 07 03 27.8–.30 39.87N 143.66E 31 5.2,4.8s
MOS III 14 07 03 29.4–.99 39.81N 143.57E 33 5.3b,4.8s
GCMT III 14 07 03 30.8–.30 39.75N 143.95E 22–1 5.2W,4.8s
IDC III 14 07 03 30.6–3.8 39.74N 143.64E 32–28 4.7,4.7
NEIC III 14 07 03 30.8–1.6 39.75N 143.57E 34–11 5.0b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ37.00000°,λ29.00000°. NP2:ϕ_s41.00000°,δ73.00000°,λ123.00000°. M$_0$5.13000$\times10^{16}$
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=30.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=4.5km az=106.5.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c27; s88,c135; Duration: 1ş0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$5.75±.46 M$_{\theta\theta}$-1.32±.24; M$_{\phi\phi}$-4.42±.28; M$_{r\theta}$2.52±.37; M$_{\theta\phi}$-1.27±.11; M$_{\phi r}$5.47±.41; Best double couple: NP1:ϕ_s23.00000°,δ69.00000°,λ92.00000°. NP2:ϕ_s197.00000°,δ21.00000°,λ85.00000°. Principal axes: T 8.4760,Plg66.0000°,Azm297.0000°; N -0.8840,Plg2.0000°,Azm203.0000°; P -7.5820,Plg24.0000°,Azm112.0000° M$_0$8.02900$\times10^{16}$
IDC Error ellipse: s-maj=13.7km s-min=11.0km az=93.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=124.0.

(228) Near east coast of eastern Honshu

JMA III 14 07 09 55.1–.10 35.98N 140.06E 62–1 2.7
¶603049753
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 14 07 22 26.7–.10 38.73N 142.16E 32–2 3.8
¶602660692
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 07 23 12.0–1.8 38.6N–.10 142.2E–.20 35 3.6b 7 1-59
IDC III 14 07 22 57.9–5.5 39.54N 144.73E 0 4.1,4.1s **¶602660688**
ISCJB III 14 07 23 09.2–1.8 38.5N–.20 142.5E–.30 35 3.7b,4.1s
JMA III 14 07 23 13.3–.20 38.66N 142.10E 33–3 3.7,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=183.8km s-min=33.4km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=38.5km s-min=17.2km az=152.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 07 25 10.7–.59 36.78N–.04 141.34E–.04 42–4 5.0b,4.9s 802 1-152
NIED III 14 07 25 00 36.70N 141.30E 38 5.0W,4.9s **¶16311651**
BJI III 14 07 25 07.8 36.62N 141.36E 44 5.4b,5.0s
JMA III 14 07 25 09.1–.20 36.72N 141.33E 45–2 5.0,5.0s
ISCJB III 14 07 25 09.7–.45 36.73N–.02 141.32E–.02 46–3 4.9b,4.8s
MOS III 14 07 25 09.5–1.0 36.75N 141.32E 44 5.0b,4.8s
NEIC III 14 07 25 11.6–.52 36.73N 141.27E 48–4 5.0b,4.8s
GCMT III 14 07 25 11.6–.40 36.91N 141.31E 15–1 5.2W,4.8s
IDC III 14 07 25 12.7–2.0 36.72N 141.32E 62–18 4.7s,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ13.00000°,λ142.00000°. NP2:ϕ_s359.00000°,δ82.00000°,λ80.00000°. M$_0$3.06000$\times10^{16}$
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=153.4.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=100.3.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=140.0. Recorded [3 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c13; s68,c93; Duration: 1ş0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$-0.03±.21 M$_{\theta\theta}$0.72±.18; M$_{\phi\phi}$-0.68±.13; M$_{r\theta}$-0.65±.56; M$_{\theta\phi}$-1.07±.11; M$_{\phi r}$8.86±1.22; Best double couple: NP1:ϕ_s355.00000°,δ89.00000°,λ82.00000°. NP2:ϕ_s260.00000°,δ8.00000°,λ174.00000°. Principal axes: T 8.6920,Plg45.0000°,Azm258.0000°; N 0.5420,Plg8.0000°,Azm355.0000°; P -9.2350,Plg44.0000°,Azm93.0000° M$_0$8.96300$\times10^{16}$
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=108.0.

(162) South Island

WEL III 14 07 29 27.9–.06 43.58S 172.73E 9–0 3.9L
NEIC III 14 07 29 27.7 43.58S 172.74E 9 3.8L **¶16313905**
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(228) Near east coast of eastern Honshu

JMA III 14 07 31 36.9–.10 36.11N 141.20E 27–2 3.8
¶602660681
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 07 32 44.5–1.0 35.45N–.04 140.96E–.06 33–4 4.3b 58 0-148
NIED III 14 07 32 00 35.50N 141.00E 44 4.5W **¶600545044**
ISCJB III 14 07 32 44.5–.60 35.41N–.04 140.98E–.07 53–5 4.2b
JMA III 14 07 32 44.5–.10 35.55N 141.01E 37–1 4.3
IDC III 14 07 32 45.8–2.1 35.44N 140.86E 44–20 4.2,4.1
NEIC III 14 07 32 46.2–.69 35.38N 140.90E 50–6 4.5b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ27.00000°,λ104.00000°. NP2:ϕ_s18.00000°,δ64.00000°,λ83.00000°. M$_0$6.31000$\times10^{15}$
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.3km az=176.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=12.4km az=80.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=84.0.

(228) Near east coast of eastern Honshu

ISC III 14 07 45 07.7–1.1 38.02N–.09 141.61E–.10 72–9 3.8b 34 1-89
ISCJB III 14 07 45 05.9–1.0 38.05N–.06 141.7E–.10 73–8 3.7b **¶16477763**
JMA III 14 07 45 06.4–.10 38.16N 141.66E 56–2 3.9
NEIC III 14 07 45 08.0–1.3 38.03N 141.70E 77–11 4.1b
IDC III 14 07 45 07.4–1.1 37.92N 141.55E 71–7 3.9s,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=8.8km az=31.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=10.3km az=119.0.
IDC Error ellipse: s-maj=25.8km s-min=18.4km az=69.0.

(228) Near east coast of eastern Honshu

JMA III 14 07 55 40.6–.20 37.13N 141.31E 48–2 3.6
¶602660659
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 14 08 15 06.6–.10 37.08N 141.06E 24 3.5
¶602660630
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 14 08 23 57.6–1.2 38.14N–.04 141.95E–.06 46–11 4.6b,3.5s 104 1-151
NIED III 14 08 23 00 38.10N 142.20E 5 4.7W,3.5s **¶16461698**
JMA III 14 08 23 51.4–.20 38.12N 142.16E 14–3 4.9,3.5s
ISCJB III 14 08 23 55.3–.65 38.09N–.03 141.98E–.06 39–5 4.6b,3.5s
NEIC III 14 08 23 58.4–.77 38.06N 141.94E 54–6 4.6b,3.5s
IDC III 14 08 23 59.3–1.8 38.08N 141.90E 63–17 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ36.00000°,λ-99.00000°. NP2:ϕ_s169.00000°,δ55.00000°,λ-83.00000°. M$_0$1.26000$\times10^{16}$
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=15.5.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.6km az=131.0.
IDC Error ellipse: s-maj=12.4km s-min=10.2km az=94.0.

(228) Near east coast of eastern Honshu

ISC III 14 08 27 10.1–1.4 37.13N–.06 141.51E–.09 43–13 3.9b 40 1-147
NIED III 14 08 27 00 37.20N 141.40E 35 4.2W **¶600545100**
ISCJB III 14 08 27 09.1–.93 37.07N–.04 141.45E–.09 52–8 4.0b
JMA III 14 08 27 10.2–.10 37.17N 141.39E 43–1 4.4
IDC III 14 08 27 11.1–2.0 37.05N 141.45E 56–19 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ14.00000°,λ-114.00000°. NP2:ϕ_s223.00000°,δ77.00000°,λ-84.00000°. M$_0$2.08000$\times10^{15}$
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.1km az=168.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=12.1km az=82.0.

(228) Near east coast of eastern Honshu

ISC III 14 08 33 01.3–1.1 35.92N–.04 140.73E–.09 51–9 3.6b 19 0-60
IDC III 14 08 32 52.4–3.3 36.11N 141.27E 0 4.0L,3.9 **¶600545111**
ISCJB III 14 08 33 00.3–.72 35.92N–.04 140.7E–.10 59–5 3.5b,3.9
JMA III 14 08 33 01.7–.10 35.89N 140.57E 45–1 2.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=104.4km s-min=24.3km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=15.8km s-min=6.0km az=171.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 09 02 00.5–.46 35.48N–.04 140.96E–.06 33 4.4b 58 0-148
NIED III 14 09 02 00 35.60N 141.00E 41 4.4W **¶16461701**
JMA III 14 09 02 01.1–.20 35.57N 141.02E 35–2 3.9
NEIC III 14 09 02 02.0–.97 35.43N 140.90E 49–9 4.5b
IDC III 14 09 02 03.1–2.0 35.39N 140.80E 58–18 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ16.00000°,λ62.00000°. NP2:ϕ_s14.00000°,δ76.00000°,λ98.00000°. M$_0$4.91000$\times10^{15}$
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.2km az=67.0.
IDC Error ellipse: s-maj=18.4km s-min=12.1km az=62.0.

(228) Near east coast of eastern Honshu

ISC III 14 09 07 48.3–.39 36.87N–.03 141.37E–.04 32–2 4.9b,4.5s 829 1-155
NIED III 14 09 07 00 36.80N 141.40E 20 4.8W,4.5s **¶602443519**
IDC III 14 09 07 43.1–.40 36.83N 141.34E 0 4.9,4.8
JMA III 14 09 07 46.6–.10 36.81N 141.39E 32–2 4.8,4.8
MOS III 14 09 07 47.4–.98 36.96N 141.28E 33 5.3b,4.8
ISCJB III 14 09 07 47.2–.62 36.89N–.02 141.31E–.02 32–4 4.9b,4.6s
NEIC III 14 09 07 49.9–.47 36.91N 141.25E 41–4 4.9b,4.6s
GCMT III 14 09 07 49.8–.40 36.97N 141.55E 31–0 5.0W,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ37.00000°,λ-143.00000°. NP2:ϕ_s34.00000°,δ69.00000°,λ-59.00000°. M$_0$1.72000$\times10^{16}$
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=109.7.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=153.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=143.0. Recorded [3 JMA] in Fukushima.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s70,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$-3.86±.29 M$_{\theta\theta}$0.32±.17; M$_{\phi\phi}$3.54±.16; M$_{r\theta}$-1.06±.23; M$_{\theta\phi}$0.11±.08; M$_{\phi r}$-1.04±.16; Best double couple: NP1:ϕ_s15.00000°,δ55.00000°,λ-75.00000°. NP2:ϕ_s171.00000°,δ38.00000°,λ-110.00000°. Principal axes: T 3.7030,Plg8.0000°,Azm95.0000°; N 0.5360,Plg12.0000°,Azm186.0000°; P -4.2390,Plg75.0000°,Azm330.0000° M$_0$3.97100$\times10^{16}$

(227) Eastern Honshu

ISC III 14 09 16 10.8–2.1 37.22N–.09 141.0E–.10 9–10 3.8b 15 0-50
IDC III 14 09 16 03.5–5.5 36.83N 141.72E 0 3.9,3.9 **¶602660810**
JMA III 14 09 16 10.9 37.18N 140.95E 9 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=93.0km s-min=53.8km az=125.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 14 09 17 03.3–.10 36.94N 141.17E 47–1 3.5
¶17195122
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 09 21 00.7–.60**	**37.00N–.05**	**141.27E–.07**	**35**	**4.1b**	**41**	**0-147**
NIED	III	14 09 20 00	37.00N	141.40E	5	4.2W		**¶600545170**
IDC	III	14 09 20 55.6–.96	37.02N	141.29E	0	4.1,4.0b		
JMA	III	14 09 20 56.6–.20	37.03N	141.43E	22–2	4.3,4.0b		
ISCJB	III	14 09 20 58.6–.43	36.97N–.04	141.35E–.05	35	4.1b,4.0b		
NEIC	III	14 09 21 01.2–1.1	36.98N	141.21E	40–12	4.3b,4.0b		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ37.00000°,λ-59.00000°. NP2:ϕ_s168.00000°,δ59.00000°,λ-111.00000°. $M_0$2.00000×10^{15}						
IDC		Error ellipse: s-maj=24.5km s-min=15.7km az=169.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=6.3km s-min=5.6km az=144.8.						
NEIC		Event type se. Error ellipse: s-maj=12.9km s-min=7.0km az=205.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 09 23 20.3–.47**	**35.51N–.04**	**141.27E–.06**	**25**	**4.2b**	**63**	**0-148**
NIED	III	14 09 23 00	35.60N	141.00E	41	4.5W		**¶16461702**
IDC	III	14 09 23 16.6–.62	35.55N	141.30E	0	4.3,4.2		
ISCJB	III	14 09 23 18.2–.36	35.51N–.03	141.38E–.05	25	4.2b,4.1s		
NEIC	III	14 09 23 20.2–1.9	35.52N	141.30E	24–14	4.7b,4.1s		
JMA	III	14 09 23 22.4–.20	35.56N	141.05E	36–1	4.3,4.1s		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ29.00000°,λ109.00000°. NP2:ϕ_s0.00000°,δ63.00000°,λ80.00000°. $M_0$5.83000×10^{15}						
IDC		Error ellipse: s-maj=16.0km s-min=13.6km az=104.0.						
ISCJB		Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=26.4.						
NEIC		Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=78.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**14 09 24 26.2–.10**	**35.56N**	**140.99E**	**33–1**	**3.6**		
NIED	III	14 09 24 00	35.60N	141.00E	41	4.4W		**¶600545173**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ16.00000°,λ92.00000°. NP2:ϕ_s333.00000°,δ74.00000°,λ89.00000°. $M_0$4.05000×10^{15}						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 09 37 47.2–1.5**	**38.52N–.07**	**141.22E–.08**	**16**	**3.3b**	**11**	**1-59**
ISCJB	III	14 09 37 45.5–1.4	38.46N–.06	141.33E–.09	16	3.5b		**¶16477810**
JMA	III	14 09 37 47.0	38.50N	141.25E	17–2	3.7		
IDC	III	14 09 37 58.6–6.1	39.26N	141.00E	77–57	3.5,3.4		
ISC		Event type ke.						
ISCJB		Event type fe. Error ellipse: s-maj=11.3km s-min=7.3km az=39.6.						
JMA		Event type fe.						
IDC		Error ellipse: s-maj=43.5km s-min=30.2km az=99.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 09 38 45.5–.41**	**39.30N–.05**	**142.33E–.04**	**29**	**4.7b,3.8s**	**213**	**1-145**
NIED	III	14 09 38 00	39.30N	142.20E	50	4.8W,3.8s		**¶17195125**
ISCJB	III	14 09 38 43.9–.26	39.26N–.03	142.34E–.04	29	4.6b,3.9s		
MOS	III	14 09 38 46.9–1.1	39.35N	142.25E	52	5.1b,3.9s		
IDC	III	14 09 38 47.6–1.9	39.32N	142.20E	48–18	4.4,4.3		
JMA	III	14 09 38 47.5–.10	39.30N	142.24E	40–1	4.6,4.3		
NEIC	III	14 09 38 49.8–.71	39.34N	142.13E	62–6	4.8b,4.3		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ23.00000°,λ87.00000°. NP2:ϕ_s21.00000°,δ67.00000°,λ91.00000°. $M_0$1.77000×10^{16}						
ISCJB		Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=142.1.						
MOS		Error ellipse: s-maj=7.6km s-min=4.7km az=100.3.						
IDC		Error ellipse: s-maj=14.3km s-min=12.4km az=113.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=8.4km s-min=5.4km az=137.0.						
		(228) Near east coast of eastern Honshu						
JMA	**III**	**14 09 58 38.3–.10**	**37.34N**	**141.12E**	**31–1**	**3.6**		
								¶602660508
JMA		Event type fe.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 17 51.3–2.4**	**39.00N–.08**	**142.4E–.10**	**48–20**	**3.7b**	**24**	**1-73**
JMA	III	14 10 17 48.9–.20	38.95N	142.40E	25–2	4.0		**¶17195130**
ISCJB	III	14 10 17 49.2–1.5	38.96N–.05	142.5E–.10	50–11	3.8b		
IDC	III	14 10 17 52.5–3.5	38.88N	142.32E	64–31	3.7,3.6		
ISC		Event type ke.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=16.0km s-min=8.4km az=16.2.						
IDC		Error ellipse: s-maj=27.7km s-min=16.1km az=87.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 19 18.3–.89**	**38.32N–.05**	**142.05E–.09**	**36–2**	**4.0b**	**30**	**1-89**
ISCJB	III	14 10 19 17.5–1.1	38.33N–.04	142.03E–.10	46–10	3.9b		**¶602660483**
JMA	III	14 10 19 17.3–.20	38.38N	142.06E	41–3	4.2		
IDC	III	14 10 19 20.6–2.6	38.26N	141.99E	60–24	4.0,3.9		
ISC		Event type ke.						
ISCJB		Event type fe. Error ellipse: s-maj=13.4km s-min=6.3km az=15.8.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
IDC		Error ellipse: s-maj=22.0km s-min=15.0km az=92.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 27 54.9–.72**	**36.66N–.05**	**141.21E–.08**	**32**	**4.1b**	**40**	**1-147**
IDC	III	14 10 27 50.2–.86	36.75N	141.36E	0	4.2,4.1		**¶16453152**
ISCJB	III	14 10 27 52.4–.57	36.67N–.04	141.45E–.07	32	4.0b,4.1		
NEIC	III	14 10 27 55.4–.44	36.68N	141.26E	35	4.0b,4.1		
JMA	III	14 10 27 56.4–.10	36.67N	141.14E	44–2	3.9,4.1		
ISC		Event type se.						
IDC		Error ellipse: s-maj=27.0km s-min=14.8km az=74.0.						
ISCJB		Event type fe. Error ellipse: s-maj=8.3km s-min=5.0km az=155.3.						
NEIC		Event type se. Error ellipse: s-maj=10.0km s-min=7.3km az=75.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
		(229) Off east coast of Honshu						
ISC	**III**	**14 10 28 40.3–.39**	**37.13N–.05**	**142.17E–.04**	**19**	**5.0b,4.5s**	**289**	**2-146**
NIED	III	14 10 28 00	37.20N	142.30E	11	4.5W,4.5s		**¶16313912**
IDC	III	14 10 28 36.9–.52	37.11N	142.23E	0	4.6,4.5		
JMA	III	14 10 28 36.6–.60	37.22N	142.33E	23	4.6,4.5		
ISCJB	III	14 10 28 39.0–.20	37.17N–.04	142.11E–.03	19	4.9b,4.6s		
NEIC	III	14 10 28 39.1–2.6	37.15N	142.18E	9–16	5.1b,4.6s		
BJI	III	14 10 28 39.6	36.89N	141.92E	23	5.0b,4.7b		
MOS	III	14 10 28 40.8–.93	37.21N	142.10E	33	5.2b,4.7b		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ14.00000°,λ170.00000°. NP2:ϕ_s332.00000°,δ88.00000°,λ76.00000°. $M_0$6.50000×10^{15}						
IDC		Error ellipse: s-maj=13.5km s-min=11.0km az=150.0.						
JMA		Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=5.5km s-min=2.9km az=160.7.						
NEIC		Event type se. Error ellipse: s-maj=6.5km s-min=3.7km az=150.0.						
MOS		Error ellipse: s-maj=7.9km s-min=6.2km az=109.6.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 29 03.8–.45**	**39.65N–.06**	**142.55E–.04**	**16–1**	**5.1b,4.6s**	**695**	**1-151**
NIED	III	14 10 29 00	39.60N	142.60E	5	4.8W,4.6s		**¶600545251**
JMA	III	14 10 29 02.2–.30	39.61N	142.65E	12–4	4.9,4.6s		
ISCJB	III	14 10 29 04.2–.81	39.67N–.04	142.56E–.03	25–5	5.0b,4.6s		
BJI	III	14 10 29 05.1	39.70N	142.50E	20	5.1b,4.9b		
MOS	III	14 10 29 07.0–.76	39.94N	142.66E	33	5.3b,4.9b		
NEIC	III	14 10 29 07.0–.24	39.65N	142.42E	35	5.1b,4.9b		
GCMT	III	14 10 29 07.1–.30	39.49N	142.46E	15–1	4.9W,4.9b		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ28.00000°,λ-91.00000°. NP2:ϕ_s218.00000°,δ62.00000°,λ-90.00000°. $M_0$1.82000×10^{16}						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=7.4km s-min=3.6km az=172.8.						
MOS		Error ellipse: s-maj=13.3km s-min=6.7km az=78.0.						
NEIC		Event type se. Error ellipse: s-maj=7.3km s-min=4.3km az=179.0.						
GCMT		Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c31; s77,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.74±.17 $M_{\theta\theta}$1.38±.11; $M_{\phi\phi}$1.36±.11; $M_{r\theta}$-1.22±.35; $M_{\theta\phi}$1.23±.06; $M_{\phi r}$0.77±.33; Best double couple: NP1:ϕ_s67.00000°,δ53.00000°,λ-62.00000°. NP2:ϕ_s206.00000°,δ45.00000°,λ-122.00000°. Principal axes: T 2.6230,Plg4.0000°,Azm138.0000°; N 0.7020,Plg22.0000°,Azm229.0000°; P -3.3260,Plg68.0000°,Azm37.0000° $M_0$2.97500×10^{16}						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 34 51.0–.34**	**39.55N–.04**	**142.66E–.04**	**29**	**4.9b,4.4s**	**700**	**1-149**
NIED	III	14 10 34 00	39.60N	142.60E	5	4.8W,4.4s		**¶602660476**
IDC	III	14 10 34 46.3–.51	39.52N	142.67E	0	4.6,4.5		
JMA	III	14 10 34 47.2–.30	39.59N	142.63E	8–3	5.0,4.5		
ISCJB	III	14 10 34 50.3–.14	39.66N–.03	142.51E–.02	29	4.8b,4.3s		
MOS	III	14 10 34 51.3–1.2	39.76N	142.46E	33	5.0b,4.3s		
NEIC	III	14 10 34 53.3–.54	39.63N	142.52E	39–5	4.9b,4.3s		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ43.00000°,λ-26.00000°. NP2:ϕ_s200.00000°,δ73.00000°,λ-130.00000°. $M_0$1.69000×10^{16}						
IDC		Error ellipse: s-maj=13.8km s-min=11.9km az=137.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=4.6km s-min=2.3km az=165.6.						
MOS		Error ellipse: s-maj=6.1km s-min=4.4km az=90.5.						
NEIC		Event type se. Error ellipse: s-maj=5.5km s-min=3.0km az=150.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 47 14.7–.61**	**37.51N–.06**	**141.85E–.06**	**24**	**3.8b**	**32**	**1-146**
ISCJB	III	14 10 47 12.8–.50	37.56N–.05	142.05E–.06	24	3.9b		**¶16461708**
JMA	III	14 10 47 14.3–.20	37.59N	141.96E	30–4	4.4		
IDC	III	14 10 47 18.3–2.8	37.59N	141.91E	51–25	3.9,3.8		
ISC		Event type ke.						
ISCJB		Event type fe. Error ellipse: s-maj=7.2km s-min=5.6km az=137.4.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
IDC		Error ellipse: s-maj=21.1km s-min=14.9km az=74.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 10 49 51.6–.69**	**38.39N–.05**	**142.17E–.08**	**36–2**	**4.3b**	**49**	**1-145**
ISCJB	III	14 10 49 50.1–.77	38.34N–.03	142.20E–.07	43–7	4.2b,3.1s		**¶16461709**
JMA	III	14 10 49 52.1–.10	38.45N	142.08E	40–2	4.2,3.1s		
NEIC	III	14 10 49 52.8–.80	38.32N	142.19E	49–8	4.4b,3.1s		
IDC	III	14 10 49 53.5–2.3	38.39N	142.06E	52–21	4.1,4.1		
ISC		Event type se.						
ISCJB		Event type fe. Error ellipse: s-maj=8.7km s-min=4.9km az=9.1.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=8.9km s-min=6.7km az=118.0.						
IDC		Error ellipse: s-maj=17.1km s-min=13.0km az=107.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 04 01.6–.90**	**38.70N–.06**	**142.24E–.08**	**40–8**	**3.6b**	**29**	**1-89**
IDC	III	14 11 04 01.6–.81	38.63N	142.28E	42–8	3.7,3.7		**¶17195140**
ISCJB	III	14 11 04 01.0–1.4	38.71N–.06	142.2E–.10	50–11	3.7b,3.7		
JMA	III	14 11 04 02.0–.20	38.77N	142.14E	37–2	4.3,3.7		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=18.7km s-min=15.6km az=94.0.						
ISCJB		Event type fe. Error ellipse: s-maj=16.2km s-min=8.5km az=20.8.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 06 26.0–.82**	**36.52N–.04**	**140.95E–.05**	**17–4**	**4.5b,3.8s**	**86**	**1-147**
NIED	III	14 11 06 00	36.50N	141.10E	5	4.7W,3.8s		**¶16313914**
IDC	III	14 11 06 22.9–.48	36.46N	140.94E	0	4.3,4.2		
JMA	III	14 11 06 25.0–.10	36.49N	141.09E	32–2	4.8,4.2		
NEIC	III	14 11 06 29.2–.74	36.52N	140.86E	41–6	4.8b,4.2		
ISC		Event type se.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ47.00000°,λ-155.00000°. NP2:ϕ_s201.00000°,δ72.00000°,λ-46.00000°. $M_0$1.15000×10^{16}						
IDC		Error ellipse: s-maj=13.9km s-min=11.5km az=107.0.						
JMA		Event type fe.						
NEIC		Event type fe. Error ellipse: s-maj=7.3km s-min=5.7km az=127.0. Recorded [3 JMA] in Ibaraki.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 11 16.1–1.4**	**35.86N–.05**	**140.96E–.07**	**14–8**	**3.5b**	**18**	**0-91**
NIED	III	14 11 11 00	35.90N	141.00E	8	4.0W		**¶17195143**
IDC	III	14 11 11 14.2–.96	35.81N	140.99E	0	3.9,3.7		
ISCJB	III	14 11 11 15.8–.89	35.85N–.05	140.98E–.07	21–5	3.5b,3.7		
JMA	III	14 11 11 16.3–.10	35.88N	140.95E	13–1	4.1,3.7		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ40.00000°,λ-104.00000°. NP2:ϕ_s8.00000°,δ52.00000°,λ-79.00000°. $M_0$1.10000×10^{15}						
IDC		Error ellipse: s-maj=33.4km s-min=19.8km az=110.0.						
ISCJB		Event type fe. Error ellipse: s-maj=10.6km s-min=6.7km az=153.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 27 10.3–2.1**	**38.6N–.10**	**142.0E–.20**	**41**	**3.7b**	**13**	**1-81**
IDC	III	14 11 26 59.5–6.3	37.94N	142.12E	0	3.8b,3.7		**¶602660416**
JMA	III	14 11 27 11.3–.10	38.66N	141.85E	50–1	3.7,3.7		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=122.7km s-min=46.0km az=157.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 27 24.8–.45**	**36.53N–.05**	**141.75E–.05**	**26**	**4.4b**	**62**	**1-147**
ISCJB	III	14 11 27 22.6–.33	36.52N–.03	141.94E–.05	26	4.3b		**¶16461711**
NEIC	III	14 11 27 22.5–2.3	36.56N	141.85E	10–14	4.6b		
JMA	III	14 11 27 25.0–.20	36.62N	141.83E	26–4	4.3		
IDC	III	14 11 27 26.8–.70	36.56N	141.74E	38–6	4.3,4.2		
ISC		Event type se.						
ISCJB		Event type fe. Error ellipse: s-maj=5.4km s-min=5.0km az=18.2.						
NEIC		Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=100.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
IDC		Error ellipse: s-maj=14.1km s-min=11.2km az=80.0.						
		(73) El Salvador						
ISC	**III**	**14 11 45 41.2–.64**	**13.32N–.05**	**89.98W–.05**	**62–5**	**4.4b**	**299**	**0-147**
BJI	III	14 11 45 40.9	13.40N	89.80W	75	4.4b		**¶16477682**
ISCJB	III	14 11 45 41.1–.46	13.39N–.04	89.83W–.04	73–3	4.4b		
CASC	III	14 11 45 41.3–2.0	13.27N	89.88W	30–9	4.6b,4.6		
IDC	III	14 11 45 42.3–.92	13.44N	89.72W	67–7	4.1,4.0		
NEIC	III	14 11 45 42.3–1.2	13.29N	89.91W	66–11	4.6,4.6b		
ISC		Event type fe.						
ISCJB		Event type fe. Error ellipse: s-maj=8.6km s-min=3.4km az=44.5.						
CASC		Error ellipse: s-maj=8.4km s-min=7.8km az=-1.0.						
IDC		Error ellipse: s-maj=25.4km s-min=10.6km az=53.0.						
NEIC		Event type fe. Error ellipse: s-maj=13.4km s-min=6.7km az=55.0. Felt [III] at San Salvador. Also felt at Antiguo Cuscatlan, Juayua and San Antonio del Monte.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 48 35.6–.48**	**35.93N–.04**	**141.54E–.06**	**26**	**4.2b,3.6s**	**53**	**1-147**
NIED	III	14 11 48 00	36.00N	141.60E	23	4.3W,3.6s		**¶602660375**
IDC	III	14 11 48 31.5–.53	35.87N	141.54E	0	4.3,4.3L		
ISCJB	III	14 11 48 33.7–.34	35.90N–.03	141.65E–.05	26	4.2b,3.6s		
JMA	III	14 11 48 35.1–.20	35.97N	141.64E	36–3	4.3,3.6s		
NEIC	III	14 11 48 36.2–1.9	35.87N	141.58E	31–14	4.5b,3.6s		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ36.00000°,λ-122.00000°. NP2:ϕ_s88.00000°,δ60.00000°,λ-69.00000°. $M_0$3.65000×10^{15}						
IDC		Error ellipse: s-maj=15.1km s-min=12.9km az=121.0.						
ISCJB		Event type fe. Error ellipse: s-maj=6.0km s-min=4.7km az=23.8.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=7.6km s-min=6.3km az=109.0.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 52 37.6–2.0**	**36.45N–.06**	**141.16E–.07**	**1–12**	**3.5b**	**19**	**0-76**
NIED	III	14 11 52 00	36.50N	141.10E	5	3.6W		**¶600545361**
ISCJB	III	14 11 52 36.6–1.2	36.43N–.04	141.19E–.06	4–6	3.6b		
IDC	III	14 11 52 37.5–1.0	36.33N	141.28E	0	3.7,3.6		
JMA	III	14 11 52 39.3	36.48N	141.07E	23–1	4.0,3.6		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ51.00000°,λ-134.00000°. NP2:ϕ_s218.00000°,δ56.00000°,λ-49.00000°. $M_0$2.91000×10^{14}						
ISCJB		Event type fe. Error ellipse: s-maj=8.2km s-min=7.4km az=166.9.						
IDC		Error ellipse: s-maj=26.6km s-min=20.1km az=76.0.						
JMA		Event type fe.						
		(228) Near east coast of eastern Honshu						
ISC	**III**	**14 11 59 19.2–1.1**	**39.04N–.07**	**142.40E–.09**	**27**	**3.7b**	**14**	**1-63**
IDC	III	14 11 59 15.0–1.0	38.92N	142.42E	0	3.6,3.5		**¶17195153**
ISCJB	III	14 11 59 17.3–.79	38.97N–.07	142.49E–.08	27	3.4b,3.5		

JMA III 14 11 59 19.3–.20 39.10N 142.41E 25–2 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=20.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=7.8km az=41.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 12 04 28.9–.50 35.98N–.05 141.16E–.06 31 4.3b,3.5s 53 0-147
NIED III 14 12 04 00 36.00N 141.20E 35 4.2W,3.5s **¶602659996**
IDC III 14 12 04 24.3–.61 35.91N 141.11E 0 4.3,4.1
ISCJB III 14 12 04 26.8–.39 35.95N–.04 141.21E–.05 31 4.2b,3.7s
NEIC III 14 12 04 28.7–1.8 35.88N 141.11E 30–12 4.6b,3.7s
JMA III 14 12 04 28.1–.10 36.00N 141.15E 38–2 4.2,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ13.00000°,λ-61.00000°. NP2:ϕ_s16.00000°,δ79.00000°,λ-96.00000°. $M_0$2.37000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=14.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.2km az=8.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=56.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 12 10 43.6–.10 36.91N 141.13E 49–1 3.7
NIED III 14 12 10 00 36.90N 141.10E 47 3.9W **¶600545383**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ19.00000°,λ-169.00000°. NP2:ϕ_s183.00000°,δ86.00000°,λ-71.00000°. $M_0$7.02000×10^{14}
(228) Near east coast of eastern Honshu
ISC III 14 12 31 24.3–1.5 38.27N–.05 141.81E–.09 38–3 3.7b 21 1-62
IDC III 14 12 31 16.0–3.4 38.47N 142.57E 0 3.9,3.8 **¶17195159**
ISCJB III 14 12 31 23.6–1.0 38.27N–.04 141.8E–.10 54–11 3.6b,3.8
JMA III 14 12 31 25.3–.10 38.35N 141.69E 48–2 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=101.1km s-min=23.8km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.5km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 12 48 13.1–.49 35.72N–.05 141.10E–.06 35–4 4.1b 63 0-148
NIED III 14 12 48 00 35.90N 140.90E 50 4.3W **¶16461718**
ISCJB III 14 12 48 13.2–.47 35.79N–.03 140.93E–.06 50–4 4.1b,3.3s
JMA III 14 12 48 13.5–.10 35.86N 140.91E 37–1 3.7,3.3s
NEIC III 14 12 48 15.5–.70 35.71N 140.85E 57–6 4.2b,3.3s
IDC III 14 12 48 16.5–1.7 35.75N 140.75E 63–16 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ5.00000°,λ153.00000°. NP2:ϕ_s27.00000°,δ88.00000°,λ85.00000°. $M_0$3.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=2.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.6km az=82.0.
IDC Error ellipse: s-maj=16.4km s-min=9.9km az=81.0.
(228) Near east coast of eastern Honshu
ISC III 14 12 50 14.8–2.1 36.42N–.05 141.01E–.07 5–13 4.0b 25 0-78
NIED III 14 12 50 00 36.50N 141.10E 5 3.8W **¶16461719**
ISCJB III 14 12 50 13.3–1.4 36.42N–.05 141.24E–.05 7–7 3.8b,3.2s
IDC III 14 12 50 14.0–.80 36.43N 141.15E 0 4.3L,4.0
JMA III 14 12 50 16.4–.10 36.50N 141.08E 18–1 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ42.00000°,λ-118.00000°. NP2:ϕ_s165.00000°,δ54.00000°,λ-68.00000°. $M_0$5.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=7.0km az=31.5.
IDC Error ellipse: s-maj=21.3km s-min=17.6km az=64.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 14 13 20 05.8–.54 36.49N–.05 141.79E–.06 19 4.3b,3.3s 50 1-147
NIED III 14 13 20 00 36.60N 141.70E 17 4.0W,3.3s **¶16409304**
ISCJB III 14 13 20 03.9–.37 36.50N–.03 141.88E–.05 19 4.2b,3.3s
IDC III 14 13 20 03.3–.56 36.50N 141.75E 0 4.2,4.1
JMA III 14 13 20 05.5–.20 36.56N 141.72E 72–3 4.2,4.1
NEIC III 14 13 20 06.7–2.1 36.50N 141.79E 24–15 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ22.00000°,λ142.00000°. NP2:ϕ_s64.00000°,δ77.00000°,λ72.00000°. $M_0$1.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.6km az=23.6.
IDC Error ellipse: s-maj=15.2km s-min=12.3km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.3km az=98.0.
(228) Near east coast of eastern Honshu
JMA III 14 13 43 19.0–.10 37.44N 141.51E 36–2 4.0
¶600545514
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 14 18 12.2 36.56N 140.83E 17–1 3.5
¶602659684
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 14 14 22 37.4–.45 36.18N–.03 141.79E–.04 29–2 5.0b,4.5s 682 1-154
NIED III 14 14 22 00 36.20N 141.80E 17 4.8W,4.5s **¶16411000**
IDC III 14 14 22 33.0–.42 36.13N 141.83E 0 4.7,4.7b
ISCJB III 14 14 22 35.8–.76 36.19N–.02 141.72E–.02 26–5 5.0b,4.4s
BJI III 14 14 22 36.4 36.18N 141.36E 20 5.1b,4.8b
JMA III 14 14 22 36.3–.20 36.19N 141.80E 67–3 4.9,4.8b
MOS III 14 14 22 37.9–.93 36.41N 141.71E 35 5.2b,4.8b
NEIC III 14 14 22 38.8–.61 36.17N 141.66E 38–5 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ4.00000°,λ5.00000°. NP2: ϕ_s351.00000°,δ90.00000°,λ94.00000°. $M_0$1.97000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.3km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=158.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.5km az=97.7.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.9km az=142.0.
(228) Near east coast of eastern Honshu
JMA III 14 14 44 35.6–.20 39.05N 142.37E 18–2 3.7
¶602659621
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 14 50 55.1–.46 38.32N–.04 142.31E–.04 34–1 4.8b,4.6s 304 1-155
ISCJB III 14 14 50 52.1–1.0 38.31N–.03 142.30E–.04 23–7 4.7s,4.7b **¶602659593**
MOS III 14 14 50 53.5–.97 38.39N 142.27E 33 5.2b,4.7b
JMA III 14 14 50 54.1–.30 38.34N 142.24E 32 4.8,4.7b
BJI III 14 14 50 54.4 38.16N 142.09E 40 5.0b,4.8s
IDC III 14 14 50 55.4–.48 38.31N 142.16E 32–2 4.4,4.3
NEIC III 14 14 50 56.1–.26 38.32N 142.15E 39–2 5.2b,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=146.8.
MOS Error ellipse: s-maj=9.1km s-min=5.4km az=91.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=11.4km s-min=10.8km az=28.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.6km az=136.0.
(229) Off east coast of Honshu
ISC III 14 15 03 01.9–2.9 37.29N–.08 142.2E–.10 4–15 4.3b 21 1-61
IDC III 14 15 03 00.4–2.1 37.20N 142.54E 0 4.3,4.2 **¶16410991**
JMA III 14 15 03 04.5–.20 37.28N 142.09E 23–4 4.6,4.2
NEIC III 14 15 03 05.7–.99 37.24N 142.39E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=55.5km s-min=23.7km az=66.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=12.0km az=64.0.
(228) Near east coast of eastern Honshu
ISC III 14 15 21 48.4–1.4 38.39N–.06 141.6E–.10 61–13 3.8b 24 1-77
IDC III 14 15 21 40.0–1.1 38.30N 141.69E 0 3.9,3.8b **¶17195184**
ISCJB III 14 15 21 47.5–.92 38.38N–.05 141.6E–.10 71–7 3.9b,3.8b
JMA III 14 15 21 48.1–.10 38.38N 141.57E 57–1 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=39.5km s-min=20.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=6.5km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 15 26 32.5–.10 36.65N 140.98E 50–2 3.9
¶603049768
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 14 15 29 59.1–1.1 37.76N–.05 142.22E–.07 25–8 4.0b 52 1-77
NIED III 14 15 29 00 37.70N 142.10E 20 4.0W **¶16410996**
IDC III 14 15 29 54.5–.82 37.64N 142.23E 0 4.1,4.0
ISCJB III 14 15 29 58.5–.85 37.74N–.04 142.25E–.06 37–7 4.0b,4.0
JMA III 14 15 29 59.0–.20 37.73N 142.10E 31 4.3,4.0
NEIC III 14 15 30 01.1–1.0 37.74N 142.30E 49–9 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ33.00000°,λ-38.00000°. NP2:ϕ_s195.00000°,δ70.00000°,λ-117.00000°. $M_0$1.26000×10^{15}
IDC Error ellipse: s-maj=19.8km s-min=18.3km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.0km az=10.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.2km az=114.0.
(228) Near east coast of eastern Honshu
JMA III 14 15 33 32.3–.10 36.70N 140.97E 48–1 3.4
¶603049769
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 14 15 39 06.2–1.2 38.78N–.04 142.45E–.07 19–3 4.1b 28 1-94
IDC III 14 15 39 01.2–1.2 38.93N 143.11E 0 4.0,3.9 **¶16410997**
NEIC III 14 15 39 05.8–.83 38.97N 143.11E 35 4.4b,3.9
JMA III 14 15 39 06.1–.20 38.87N 142.57E 16–3 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=29.7km s-min=20.1km az=79.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.2km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 15 42 56.9–.91 36.13N–.04 141.11E–.07 25–5 3.7b 25 0-75
JMA III 14 15 42 54.9–.10 36.07N 141.20E 36–2 3.9 **¶602659531**
ISCJB III 14 15 42 55.6–1.1 36.11N–.04 141.16E–.09 29–6 3.6b
IDC III 14 15 42 59.7–3.0 36.07N 141.02E 45–28 3.6,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.3km az=168.9.
IDC Error ellipse: s-maj=34.3km s-min=14.5km az=78.0.
(228) Near east coast of eastern Honshu
ISC III 14 15 43 42.1–1.6 39.02N–.08 142.5E–.10 27 3.7b 11 1-63
ISCJB III 14 15 43 40.1–1.2 38.98N–.07 142.6E–.10 27 3.7b **¶17195188**
IDC III 14 15 43 41.6–11 38.55N 141.53E 0 3.8,3.6
JMA III 14 15 43 43.1–.20 39.05N 142.38E 25–3 3.9,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=8.3km az=149.5.
IDC Error ellipse: s-maj=412.1km s-min=33.9km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 15 50 44.8–.30 39.64N 142.67E 20 4.2
¶603145365
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 15 56 07.3–.49 36.99N–.05 141.83E–.05 19 4.4b 77 1-90
NIED III 14 15 56 00 37.00N 141.70E 26 4.2W **¶16314734**
ISCJB III 14 15 56 04.7–.37 37.00N–.04 141.99E–.05 19 4.3b,3.3s
NEIC III 14 15 56 08.7–.70 37.00N 141.91E 34–5 4.6b,3.3s
IDC III 14 15 56 09.2–.75 36.99N 141.90E 35–5 4.2,4.1
JMA III 14 15 56 09.0–.30 37.03N 141.70E 44–3 4.5,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ18.00000°,λ173.00000°. NP2:ϕ_s14.00000°,δ88.00000°,λ72.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.7km az=31.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=118.0.
IDC Error ellipse: s-maj=15.4km s-min=12.2km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 16 11 34.3–.61 36.52N–.05 140.88E–.06 56–4 4.2b,3.4s 83 0-83
NIED III 14 16 11 00 36.50N 140.90E 47 4.2W,3.4s **¶602659494**
ISCJB III 14 16 11 32.5–.57 36.51N–.04 140.92E–.06 58–3 4.2b,3.4s
JMA III 14 16 11 33.6–.10 36.50N 140.88E 51–1 4.5,3.4s
NEIC III 14 16 11 33.6–.89 36.47N 140.91E 54–8 4.6b,3.4s
IDC III 14 16 11 35.0–.60 36.51N 140.77E 62–5 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ12.00000°,λ74.00000°. NP2:ϕ_s10.00000°,δ78.00000°,λ93.00000°. $M_0$2.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=7.7km az=49.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=12.4km s-min=8.5km az=103.0.
(228) Near east coast of eastern Honshu
ISC III 14 16 23 02.6–.61 38.85N–.06 142.83E–.06 16 4.1b 45 1-88
ISCJB III 14 16 23 00.4–.57 38.75N–.07 142.76E–.08 16 4.2b **¶17195196**
NEIC III 14 16 23 02.7–2.9 38.96N 142.63E 13–18 4.7b
IDC III 14 16 23 03.7–1.0 38.98N 142.65E 19–4 4.0,4.0
JMA III 14 16 23 16.5–.40 39.41N 142.72E 0 4.3,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.1km az=137.3.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=130.0.
IDC Error ellipse: s-maj=18.9km s-min=14.2km az=151.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
(230) Near south coast of eastern Honshu
ISC III 14 16 36 12.1–.96 35.49N–.05 139.90E–.06 35 3.5b 16 0-59
ISCJB III 14 16 36 11.5–.56 35.47N–.04 139.89E–.07 35 3.5b **¶600545799**
IDC III 14 16 36 12.8–3.0 35.39N 139.67E 35–21 4.3L,3.8
JMA III 14 16 36 12.7–.10 35.53N 139.88E 21–2 3.3,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.7km az=170.5.
IDC Error ellipse: s-maj=46.1km s-min=13.6km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 16 41 28.7–.10 36.07N 141.22E 39–2 3.7
¶602659427
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 14 16 55 40.9–.10 36.93N 141.07E 56–1 3.6
¶602659404
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 14 17 19 53.2–.83 35.81N–.05 141.13E–.07 33–3 3.9b 38 0-84
NIED III 14 17 19 00 35.80N 141.10E 38 4.1W **¶602659349**
ISCJB III 14 17 19 52.5–.94 35.84N–.04 141.1E–.10 42–7 3.9b
JMA III 14 17 19 52.8–.10 35.82N 141.10E 33–1 3.5
IDC III 14 17 19 55.6–2.5 35.77N 141.01E 56–21 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ14.00000°,λ160.00000°. NP2:ϕ_s15.00000°,δ85.00000°,λ77.00000°. $M_0$1.74000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=6.0km az=169.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=14.9km az=80.0.
(228) Near east coast of eastern Honshu
JMA III 14 17 20 04.8 37.35N 141.06E 24–1 3.7
¶602659347
JMA Event type fe.
(243) Taiwan region
ISC III 14 17 21 56.1–.84 22.24N–.02 121.50E–.03 12–5 4.5b,3.8s 265 0-86

NIED III 14 17 21 00 22.50N 121.60E 8 4.4W,3.8s ¶16314302
IDC III 14 17 21 52.7–.56 22.03N 121.48E 0 4.3,4.2
NEIC III 14 17 21 53.6–1.5 22.11N 121.53E 2–9 4.6L,4.6b
BJI III 14 17 21 53.3 22.19N 121.35E 6 4.6b,4.4b
ISCJB III 14 17 21 55.3–.38 22.14N–.01 121.55E–.02 18–3 4.4b,3.9s
TAP III 14 17 21 57.2 22.19N 121.37E 21–0 4.7L,3.9s
JMA III 14 17 21 58.8–.10 22.49N 121.56E 9–2 4.7,3.9s
BKK III 14 17 22 05.0–.70 23N–10 122E–13 133–16 5.2,4.7b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ62.00000°,λ-170.00000°. NP2:ϕ_s338.00000°,δ82.00000°,λ-28.00000°. $M_0$5.28000×10^{15}
NEIC Event type fe. Felt at Kaohsiung and Hengchun. Recorded [4 TAP] in Taitung and [2 TAP] in Pingtung.
ISCJB Event type fe.
TAP B.

(229) Off east coast of Honshu

ISC III 14 17 26 04.7–.55 37.59N–.05 142.07E–.06 33–2 4.5b,3.8s 127 1-146
NIED III 14 17 26 00 37.60N 142.00E 20 4.3W,3.8s ¶16424497
JMA III 14 17 26 03.3–.20 37.62N 142.04E 31 4.4,3.8s
ISCJB III 14 17 26 03.1–.69 37.57N–.03 142.09E–.05 36–5 4.5b,3.8s
IDC III 14 17 26 05.1–.60 37.60N 141.96E 34–3 4.4,4.3
NEIC III 14 17 26 06.2–.66 37.59N 142.02E 46–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ-60.00000°. NP2:ϕ_s347.00000°,δ72.00000°,λ-101.00000°. $M_0$3.59000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.0km az=16.4.
IDC Error ellipse: s-maj=12.5km s-min=10.9km az=137.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=125.0.

(228) Near east coast of eastern Honshu

ISC III 14 17 34 54.5–1.1 38.96N–.07 142.38E–.08 27 3.7b 16 1-63
IDC III 14 17 34 50.2–1.1 38.88N 142.35E 0 3.8,3.6 ¶17195218
ISCJB III 14 17 34 52.6–.81 38.94N–.06 142.50E–.07 27 3.6b,3.6
JMA III 14 17 34 54.6–.20 38.96N 142.35E 20–3 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=22.4km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.9km az=23.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC III 14 17 59 41.2–.39 37.19N–.03 142.41E–.03 24–2 5.5s,5.5b 1396 1-164
NIED III 14 17 59 00 37.20N 142.40E 11 5.6W,5.5b ¶17195224
IDC III 14 17 59 36.9–.37 37.14N 142.48E 0 5.3s,5.3
BJI III 14 17 59 38.1 37.13N 142.25E 18 5.9s,5.7
JMA III 14 17 59 39.6–.20 37.16N 142.44E 22 5.8,5.7
ISCJB III 14 17 59 39.5–.63 37.16N–.02 142.38E–.02 21–4 5.5s,5.4b
NEIC III 14 17 59 41.1–.53 37.21N 142.25E 20–3 5.6W,5.4s
GCMT III 14 17 59 41.1–.10 37.23N 142.42E 16–0 5.7W,5.4s
MOS III 14 17 59 43.2–.85 37.56N 142.27E 34 5.8b,5.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s40.00000°,δ68.00000°,λ92.00000°. $M_0$2.66000×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=9.4km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=166.6.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=148.0. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}1.77 $M_{\theta\theta}$-0.95 $M_{\phi\phi}$-0.81 $M_{r\theta}$1.79 $M_{\theta\phi}$-1.16 $M_{\phi r}$1.81 Best double couple: NP1:ϕ_s229.00000°,δ18.00000°,λ94.00000°. NP2:ϕ_s45.00000°,δ72.00000°,λ89.00000°. Principal axes: T 3.0400,Plg63.0000°,Azm313.0000° ; N 0.2700,Plg1.0000°,Azm45.0000°; P -3.3200,Plg27.0000°,Azm136.0000° $M_0$3.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s103,c190; s126,c274;Duration: 1$\hat{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.19±.04 $M_{\theta\theta}$-0.65±.02; $M_{\phi\phi}$-1.54±.03; $M_{r\theta}$2.38±.10; $M_{\theta\phi}$-1.15±.02; $M_{\phi r}$2.31±.10; Best double couple: NP1:ϕ_s44.00000°,δ73.00000°,λ96.00000°. NP2:ϕ_s204.00000°,δ18.00000°,λ71.00000°. Principal axes: T 3.9790,Plg61.0000°,Azm323.0000°; N 0.0750,Plg6.0000°,Azm222.0000° ; P -4.0490,Plg28.0000°,Azm129.0000° $M_0$4.01400×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=103.2.

(229) Off east coast of Honshu

ISC III 14 18 01 30.3–.46 37.02N–.05 142.40E–.05 9 5.0b 72 1-150
ISCJB III 14 18 01 28.8–.32 37.01N–.04 142.46E–.03 9 5.4s,5.0b ¶16424492
IDC III 14 18 01 28.9–.50 37.06N 142.46E 0 5.4,5.4s
MOS III 14 18 01 31.9–.82 36.99N 142.44E 33 5.3b,5.4s
JMA III 14 18 01 31.7–.20 37.09N 142.38E 16–3 5.4,5.4s
NEIC III 14 18 01 34.5–1.2 37.05N 142.36E 37–11 5.4b,5.4s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=179.2.
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=121.0.
MOS Error ellipse: s-maj=11.8km s-min=10.1km az=108.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=120.0.

(228) Near east coast of eastern Honshu

JMA III 14 18 20 57.0–.10 36.47N 141.03E 45–1 3.5
¶602659826
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 14 18 35 41.8–.73 37.19N–.04 141.22E–.07 37–1 3.9b 40 0-147
NEIC III 14 18 35 36.7–4.9 37.36N 141.26E 2–31 4.6b ¶602443529
ISCJB III 14 18 35 41.4–.74 37.16N–.03 141.20E–.08 51–5 3.9b
JMA III 14 18 35 42.4–.10 37.22N 141.16E 39–1 4.3
IDC III 14 18 35 43.0–2.5 37.25N 141.10E 44–25 4.0,3.9
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=15.5km s-min=10.6km az=118.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.4km az=178.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.7km s-min=15.1km az=69.0.

(228) Near east coast of eastern Honshu

ISC III 14 18 41 01.4–.43 36.59N–.03 141.84E–.03 28–2 5.6b,5.3s 1325 1-155
IDC III 14 18 40 57.3–.34 36.59N 141.79E 0 5.3,5.3 ¶602447863
BJI III 14 18 40 58.1 36.68N 141.71E 20 5.4b,5.4s
ISCJB III 14 18 40 59.2–.61 36.53N–.02 141.85E–.02 22–4 5.5b,5.2s
JMA III 14 18 41 00.9–.20 36.56N 141.85E 44–5 5.7,5.2s
NIED III 14 18 41 00 36.60N 141.70E 26 5.4W,5.2s
GCMT III 14 18 41 01.5–.10 36.61N 141.78E 21–0 5.4W,5.2s
NEIC III 14 18 41 01.5–1.1 36.58N 141.75E 26–8 5.6b,5.2s
MOS III 14 18 41 02.5–1.0 36.78N 141.79E 38 5.7b,5.3s
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=8.9km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=157.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ33.00000°,λ-31.00000°. NP2:ϕ_s228.00000°,δ73.00000°,λ-120.00000°. $M_0$1.31000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s92,c169; s125,c239;Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.47±.02 $M_{\theta\theta}$1.03±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$0.66±.04; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$1.37±.06; Best double couple: NP1: ϕ_s216.00000°,δ82.00000°,λ-120.00000°. NP2:ϕ_s112.00000°,δ31.00000°,λ-16.00000°. Principal axes: T 1.6690,Plg30.0000°,Azm330.0000°; N 0.2340,Plg30.0000°,Azm221.0000° ; P -1.8990,Plg45.0000°,Azm96.0000° $M_0$1.78400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=130.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.0km s-min=3.8km az=107.8.

(228) Near east coast of eastern Honshu

JMA III 14 18 53 14.7–.10 37.16N 141.18E 28–1 3.5
¶602659779
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 18 54 01.3–2.1 39.31N–.06 142.4E–.10 44–18 3.9b 30 1-88
JMA III 14 18 53 59.3–.20 39.27N 142.37E 27–3 4.2 ¶17195231
ISCJB III 14 18 54 00.0–1.2 39.29N–.05 142.4E–.10 49–10 3.8b
IDC III 14 18 54 03.1–2.7 39.23N 142.27E 63–25 3.9,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.4km az=14.5.
IDC Error ellipse: s-maj=19.0km s-min=15.1km az=110.0.

(228) Near east coast of eastern Honshu

ISC III 14 19 04 10.8–.89 35.90N–.04 141.00E–.06 31–5 4.6b 116 0-148
NIED III 14 19 04 00 35.90N 140.90E 44 4.7W ¶16315870
ISCJB III 14 19 04 11.2–.45 35.85N–.03 140.88E–.06 48–3 4.6b
JMA III 14 19 04 12.1–.10 35.92N 140.87E 37–1 4.5
IDC III 14 19 04 13.8–1.5 35.84N 140.81E 55–13 4.5,4.3
NEIC III 14 19 04 13.9–.70 35.84N 140.81E 58–6 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ17.00000°,λ121.00000°. NP2:ϕ_s11.00000°,δ76.00000°,λ81.00000°. $M_0$1.12000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=2.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ68.00000°,λ76.00000°. NP2: ϕ_s224.00000°,δ26.00000°,λ121.00000°. Principal axes: T Plg64.0000°,Azm258.0000° ; N Plg13.0000°,Azm16.0000°; P Plg22.0000°,Azm111.0000°
IDC Error ellipse: s-maj=13.1km s-min=7.9km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=92.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC III 14 19 28 28.8–.37 38.63N–.04 141.98E–.04 45–2 5.2b,4.5s 765 1-155
NIED III 14 19 28 00 38.70N 141.80E 53 5.0W,4.5s ¶602659259
BJI III 14 19 28 21.1 38.43N 142.32E 25 5.3b,5.1b
ISCJB III 14 19 28 26.9–.14 38.67N–.02 141.77E–.03 35 5.2b,4.6s
GCMT III 14 19 28 28.7–.30 38.68N 142.15E 63–1 5.1W,4.6s
MOS III 14 19 28 28.0–.72 38.88N 141.81E 37 5.5b,4.6s
NEIC III 14 19 28 28.7–.25 38.64N 141.72E 39–2 5.1b,4.6s
JMA III 14 19 28 29.7–.20 38.65N 141.88E 51–2 5.0,4.6s
IDC III 14 19 28 31.5–1.9 38.66N 141.83E 66–16 5.0,4.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ19.00000°,λ70.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ97.00000°. $M_0$3.49000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=139.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c79; s91,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.96±.20 $M_{\theta\theta}$-0.25±.15; $M_{\phi\phi}$-3.71±.15; $M_{r\theta}$2.10±.11; $M_{\theta\phi}$-1.69±.13; $M_{\phi r}$2.25±.12; Best double couple: NP1:ϕ_s35.00000°,δ63.00000°,λ102.00000°. NP2:ϕ_s189.00000°,δ29.00000°,λ67.00000°. Principal axes: T 5.0900,Plg69.0000°,Azm330.0000°; N 0.2220,Plg11.0000°,Azm209.0000° ; P -5.3110,Plg18.0000°,Azm116.0000° $M_0$5.20100×10^{16}
MOS Error ellipse: s-maj=6.1km s-min=3.6km az=105.8.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=145.0. Felt at Sagamihara and Tokyo. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=112.0.

(228) Near east coast of eastern Honshu

ISC III 14 19 29 27.1–.51 38.45N–.08 142.00E–.07 41 4.9b 76 1-155
IDC III 14 19 29 21.6–.66 38.52N 141.88E 0 5.0,4.8 ¶602442350
NEIC III 14 19 29 23.8–3.0 38.49N 141.92E 14–18 4.9b,4.8
ISCJB III 14 19 29 26.0–.46 38.48N–.07 141.90E–.07 41 4.8b,4.8
JMA III 14 19 29 29.8–.10 38.63N 141.88E 43–1 5.1,4.8
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=13.7km az=177.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.7km az=152.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 19 31 36.2–.58 36.56N–.04 141.85E–.08 37–2 4.5b 78 1-151
NIED III 14 19 31 00 36.60N 141.70E 29 4.5W ¶16427599
IDC III 14 19 31 30.4–.56 36.53N 141.92E 0 5.0L,4.6
ISCJB III 14 19 31 34.8–.87 36.53N–.03 141.85E–.06 41–6 4.5b,4.6
JMA III 14 19 31 35.4–.20 36.57N 141.75E 50–5 4.7,4.6
NEIC III 14 19 31 36.5–1.1 36.52N 141.83E 42–9 4.6b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ41.00000°,λ-92.00000°. NP2:ϕ_s5.00000°,δ49.00000°,λ-88.00000°. $M_0$5.61000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=14.4km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.7km az=3.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.0km az=125.0.

(229) Off east coast of Honshu

ISC III 14 19 34 08.7–.47 39.10N–.06 143.03E–.06 16 4.6b 97 1-149
NIED III 14 19 34 00 39.30N 143.00E 8 4.6W ¶16427603
JMA III 14 19 34 06.9–.40 39.31N 143.02E 0 5.0
ISCJB III 14 19 34 07.6–.31 39.16N–.05 143.07E–.04 16 4.5b
NEIC III 14 19 34 13.7–.69 39.11N 142.99E 55–6 4.7b
IDC III 14 19 34 13.4–2.3 39.13N 143.04E 53–20 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ51.00000°,λ-166.00000°. NP2:ϕ_s82.00000°,δ79.00000°,λ-40.00000°. $M_0$9.35000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=164.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.5km az=143.0.
IDC Error ellipse: s-maj=16.1km s-min=12.6km az=143.0.

(228) Near east coast of eastern Honshu

ISC III 14 19 38 13.8–1.1 37.75N–.06 142.08E–.08 30 3.5b 16 1-58
IDC III 14 19 38 09.5–1.4 37.77N 142.38E 0 3.7,3.6 ¶600546090
ISCJB III 14 19 38 12.2–.92 37.71N–.06 142.18E–.08 30 3.5b,3.6
JMA III 14 19 38 14.1–.20 37.74N 141.95E 14–3 4.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=24.9km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=8.1km az=160.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 14 19 40 00.6–1.9 36.69N–.06 141.32E–.07 14–11 3.8b 29 1-147
JMA III 14 19 40 01.9–.10 36.75N 141.26E 37–2 3.9 ¶17195245
ISCJB III 14 19 40 01.6–1.3 36.68N–.04 141.31E–.09 33–11 3.6b
IDC III 14 19 40 05.2–3.1 36.64N 141.26E 52–27 3.7,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.5km az=4.1.
IDC Error ellipse: s-maj=20.4km s-min=16.8km az=110.0.

(230) Near south coast of eastern Honshu

ISC III 14 19 59 46.8–.90 35.50N–.04 139.85E–.04 32–6 4.2b 59 0-149
NIED III 14 19 59 00 35.50N 139.90E 20 4.1W ¶602443536
ISCJB III 14 19 59 46.5–.41 35.46N–.03 139.86E–.05 45–4 4.2b
JMA III 14 19 59 46.9–.10 35.53N 139.88E 23–2 4.1
NEIC III 14 19 59 48.7–.74 35.38N 139.80E 50–6 4.7b
IDC III 14 19 59 48.9–1.2 35.40N 139.78E 50–12 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ19.00000°,λ-33.00000°. NP2:ϕ_s82.00000°,δ80.00000°,λ-106.00000°. $M_0$1.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=152.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ86.00000°,λ110.00000°. NP2: ϕ_s5.00000°,δ20.00000°,λ11.00000°. Principal axes: T Plg45.0000°,Azm195.0000° ; N Plg20.0000°,Azm84.0000°; P Plg38.0000°,Azm337.0000°
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=6.0km az=77.0. Recorded [3 JMA] in Ibaraki, Kanagawa, Saitama and Tokyo.
IDC Error ellipse: s-maj=15.9km s-min=8.7km az=74.0.

(228) Near east coast of eastern Honshu

ISC III 14 20 04 35.2–.72 35.93N–.04 140.89E–.06 42–6 4.3b,3.7s 74 0-152
NIED III 14 20 04 00 35.90N 140.80E 47 4.5W,3.7s ¶16442358
ISCJB III 14 20 04 34.2–.47 35.91N–.03 140.88E–.06 49–3 4.2b,3.6s
JMA III 14 20 04 35.0–.10 35.91N 140.84E 41–1 4.4,3.6s
NEIC III 14 20 04 35.6–.98 35.91N 140.88E 47–7 4.6b,3.6s
IDC III 14 20 04 36.0–1.7 35.87N 140.85E 51–15 4.1,4.0
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ15.00000°,λ127.00000°. NP2:ϕ_s15.00000°,δ78.00000°,λ81.00000°. $M_0$7.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.5km az=167.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.3km az=135.0.
IDC Error ellipse: s-maj=15.8km s-min=9.4km az=89.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 20 09 55.3–.72**	**37.26N–.07**	**141.51E–.08**	**35**	**3.7b**	**28**	**1-117**
NIED	III	14 20 09 00	37.30N	141.50E	5	4.0W		**¶16442361**
IDC	III	14 20 09 50.0–.75	37.27N	141.67E	0	3.9,3.8L		
JMA	III	14 20 09 53.1–.10	37.33N	141.53E	16–2	4.4,3.8L		
ISCJB	III	14 20 09 53.6–.52	37.24N–.05	141.57E–.06	35	3.7b,3.8L		
NEIC	III	14 20 09 56.0–1.6	37.25N	141.61E	42–14	4.3b,3.8L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ50.00000°,λ-33.00000°. NP2:ϕ_s165.00000°,δ66.00000°,λ-135.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=21.4km s-min=19.8km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.5km az=156.4.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=11.0km az=77.0.

(460) Wyoming

ISC	**III**	**14 20 10 09.4–.79**	**43.76N–.03**	**105.26W–.03**	**0**		**64**	**1-20**
IDC	III	14 20 10 06.6–1.5	43.40N	105.20W	0	3.7,3.4		**¶17195248**
NEIC	III	14 20 10 07.0–.68	43.54N	105.11W	0	3.2L,3.4		
ISCJB	III	14 20 10 08.4–.30	43.73N–.03	105.36W–.03	0	3.2L,3.4		

ISC Event type sm.
NEIC Event type fm. 81 km [50 miles] WSW of Newcastle. Suspected Mining explosion.
ISCJB Event type fm.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 20 16 19.1–2.3**	**39.15N–.08**	**142.7E–.10**	**20–16**	**3.8b**	**26**	**1-73**
IDC	III	14 20 16 15.9–.92	39.09N	142.72E	0	3.8,3.7		**¶17195250**
JMA	III	14 20 16 19.2–.20	39.31N	142.71E	6–2	4.6,3.7		
ISCJB	III	14 20 16 19.8–1.6	39.18N–.06	142.8E–.10	39–12	3.7b,3.7		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 20 33 51.0–1.0**	**35.78N–.05**	**140.91E–.09**	**49–10**	**3.9b**	**36**	**0-118**
NIED	III	14 20 33 00	35.80N	141.00E	41	4.1W		**¶16461724**
JMA	III	14 20 33 49.6–.10	35.78N	141.02E	33–1	3.6		
ISCJB	III	14 20 33 49.1–.61	35.76N–.04	141.01E–.08	47–5	3.9b		
IDC	III	14 20 33 51.8–1.7	35.69N	140.94E	58–16	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ8.00000°,λ125.00000°. NP2:ϕ_s17.00000°,δ83.00000°,λ85.00000°. $M_0$1.60000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=6.4km az=172.4.
IDC Error ellipse: s-maj=18.9km s-min=9.8km az=90.0.

(221) Kuril Islands

ISC	**III**	**14 20 41 23.9–.33**	**50.86N–.04**	**156.67E–.03**	**128–2**	**5.0b**	**982**	**0-159**
KRSC	III	14 20 41 19.4–1.9	50.54N	157.19E	124–19	5.7L		**¶16314741**
MOS	III	14 20 41 22.4–.93	50.85N	156.57E	129	4.9b		
BJI	III	14 20 41 22.8	50.86N	156.58E	139	5.1b,5.0b		
IDC	III	14 20 41 23.7–.51	50.87N	156.61E	125–4	4.9,4.6		
ISCJB	III	14 20 41 23.3–.28	50.90N–.02	156.64E–.02	136–2	4.8b,4.6		
NEIC	III	14 20 41 24.9–.11	50.96N	156.53E	131	5.0b,4.6		
GCMT	III	14 20 41 24.9–.20	50.78N	156.95E	122–2	5.1W,4.6		

ISC Event type se.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=6.0km s-min=3.4km az=79.7. Felt (III-IV) at Severo-Kuril'sk. Moment Tensor Solution.
IDC Error ellipse: s-maj=8.7km s-min=6.6km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.0km az=158.7.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.3km az=157.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c67; s107,c174; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.87±.12 $M_{\theta\theta}$0.15±.16; $M_{\phi\phi}$2.73±.14; $M_{r\theta}$2.04±.09; $M_{\theta\phi}$-3.37±.12; $M_{\phi r}$2.53±.09; Best double couple: NP1:ϕ_s180.00000°,δ64.00000°,λ-44.00000°. NP2:ϕ_s292.00000°,δ51.00000°,λ-146.00000°. Principal axes: T 5.1760,Plg8.0000°,Azm239.0000°; N 0.5310,Plg40.0000°,Azm336.0000°; P -5.6990,Plg48.0000°,Azm140.0000° $M_0$5.43700×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**14 20 45 45.6–.73**	**36.8N–.10**	**142.8E–.10**	**35**	**4.2b**	**38**	**2-146**
NIED	III	14 20 45 00	37.40N	141.20E	5	4.1W		**¶16442369**
IDC	III	14 20 45 41.0–.76	36.87N	142.75E	0	4.2,4.1		
ISCJB	III	14 20 45 44.5–.58	36.86N–.09	142.72E–.08	35	4.1b,3.3s		
NEIC	III	14 20 45 46.5–.53	36.95N	142.74E	35	4.6b,3.3s		
JMA	III	14 20 45 48.9–.10	37.36N	141.20E	30–1	3.7,3.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ42.00000°,λ-94.00000°. NP2:ϕ_s336.00000°,δ48.00000°,λ-86.00000°. $M_0$1.54000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=16.5km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=8.7km az=163.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.6km az=158.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 20 54 29.6–.10**	**35.81N**	**140.92E**	**15–1**	**3.7**		**¶602659204**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 20 57 48.2–1.2**	**36.40N–.06**	**140.92E–.08**	**32**	**3.4b**	**15**	**0-60**
IDC	III	14 20 57 42.0–2.3	36.60N	141.39E	0	3.5,3.5		**¶17195257**
ISCJB	III	14 20 57 46.4–.93	36.35N–.05	141.10E–.08	32	3.3b,3.5		
JMA	III	14 20 57 48.0–.10	36.37N	141.01E	37–1	3.5,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=25.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.5km az=171.7.
JMA Event type fe.

(227) Eastern Honshu

JMA	**III**	**14 21 13 56.2**	**39.02N**	**140.82E**	**7–1**	**4.1**		**¶603049784**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 21 32 39.9–.10**	**37.35N**	**141.34E**	**35–1**	**3.6**		**¶602659154**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 21 53 40.1–2.0**	**37.85N–.06**	**141.6E–.10**	**64–13**	**3.6b**	**25**	**1-49**
IDC	III	14 21 53 23.3–3.6	37.72N	143.11E	0	3.8,3.7		**¶17195266**
JMA	III	14 21 53 41.3–.10	37.89N	141.50E	61–2	3.9,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=77.7km s-min=29.4km az=161.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 21 58 30.0–.10**	**36.72N**	**141.06E**	**45–1**	**3.4**		**¶603049787**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 22 04 10.3–.50**	**35.82N–.03**	**141.24E–.04**	**33–1**	**4.9b,4.0s**	**771**	**0-162**
NIED	III	14 22 04 00	35.90N	141.30E	32	4.7W,4.0s		**¶16314743**
BJI	III	14 22 04 02.4	35.79N	141.68E	15	4.9b,4.6b		
JMA	III	14 22 04 09.8–.10	35.88N	141.23E	36–1	4.8,4.6b		
ISCJB	III	14 22 04 10.1–.41	35.77N–.02	141.12E–.03	42–3	4.9b,4.0s		
IDC	III	14 22 04 11.4–1.6	35.78N	141.16E	42–15	4.7,4.6		
MOS	III	14 22 04 11.6–.88	36.33N	141.16E	33	5.1b,4.6		
NEIC	III	14 22 04 11.8–.63	35.75N	141.06E	44–5	5.0b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ47.00000°,λ-121.00000°. NP2:ϕ_s125.00000°,δ51.00000°,λ-61.00000°. $M_0$1.22000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=149.7.
IDC Error ellipse: s-maj=12.7km s-min=8.6km az=88.0.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=97.8.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.

(227) Eastern Honshu

ISC	**III**	**14 22 20 32.1–1.1**	**36.85N–.03**	**138.57E–.03**	**5–7**	**4.2b,3.6s**	**69**	**0-149**
NIED	III	14 22 20 00	36.80N	138.60E	5	4.4W,3.6s		**¶602443547**
IDC	III	14 22 20 31.9–.45	36.90N	138.42E	0	4.3,4.2		
JMA	III	14 22 20 31.9	36.82N	138.61E	0	4.5,4.2		
ISCJB	III	14 22 20 31.7–.63	36.83N–.03	138.54E–.03	15–4	4.1b,3.7s		
NEIC	III	14 22 20 33.5–.92	36.82N	138.39E	13–6	4.3b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ52.00000°,λ-172.00000°. NP2:ϕ_s6.00000°,δ84.00000°,λ-39.00000°. $M_0$5.20000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=7.8km az=104.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s98.00000°,δ81.00000°,λ169.00000°. NP2:ϕ_s190.00000°,δ79.00000°,λ9.00000°. Principal axes: T Plg14.0000°,Azm54.0000°; N Plg76.0000°,Azm238.0000°; P Plg1.0000°,Azm144.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.0km az=164.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=7.0km az=82.0. Recorded [3 JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 22 22 33.3–.60**	**39.14N–.05**	**142.51E–.07**	**36–2**	**4.4b**	**82**	**1-88**
JMA	III	14 22 22 31.4–.30	39.18N	142.53E	22–3	4.5		**¶16461666**
ISCJB	III	14 22 22 32.5–.86	39.17N–.04	142.51E–.07	45–6	4.3b,4.0s		
NEIC	III	14 22 22 33.9–.79	39.16N	142.47E	43–6	4.6b,4.0s		
IDC	III	14 22 22 34.6–2.1	39.11N	142.48E	50–20	4.2,4.1		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.7km az=26.7.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.2km az=129.0.
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=97.0.

(227) Eastern Honshu

ISC	**III**	**14 22 29 20.7–.97**	**37.04N–.03**	**140.67E–.03**	**8–6**	**4.5b**	**82**	**0-147**
NIED	III	14 22 29 00	37.10N	140.70E	8	4.1W		**¶16461730**
ISCJB	III	14 22 29 20.6–.54	37.06N–.03	140.86E–.04	19–3	4.4b		
JMA	III	14 22 29 21.9	37.07N	140.75E	9–1	4.3		
NEIC	III	14 22 29 24.9–.23	37.05N	140.73E	35	4.7b		
IDC	III	14 22 29 26.3–1.6	37.03N	140.77E	50–16	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ43.00000°,λ-113.00000°. NP2:ϕ_s217.00000°,δ51.00000°,λ-70.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.3km az=17.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ45.00000°,λ-82.00000°. NP2:ϕ_s9.00000°,δ45.00000°,λ-98.00000°. Principal axes: T Plg0.0000°,Azm285.0000°; N Plg6.0000°,Azm15.0000°; P Plg84.0000°,Azm195.0000°
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=123.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.9km s-min=10.2km az=60.0.

(229) Off east coast of Honshu

ISC	**III**	**14 22 32 32.1–.39**	**37.29N–.05**	**142.74E–.06**	**21**	**4.5b**	**129**	**2-154**
JMA	III	14 22 32 29.7–.30	37.48N	142.57E	0	4.6		**¶602659029**
ISCJB	III	14 22 32 30.6–.23	37.32N–.03	142.73E–.04	21	4.5b,3.3s		
NEIC	III	14 22 32 31.9–2.9	37.39N	142.66E	16–18	4.8b,3.3s		
IDC	III	14 22 32 35.1–2.8	37.43N	142.63E	38–24	4.4,4.3		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=153.5.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=122.0.
IDC Error ellipse: s-maj=13.5km s-min=10.9km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 22 41 36.7–.50**	**38.70N–.05**	**142.17E–.07**	**41**	**4.3b**	**59**	**1-78**
IDC	III	14 22 41 31.6–.82	38.74N	142.05E	0	4.0,3.8		**¶602659021**
ISCJB	III	14 22 41 34.9–.34	38.69N–.03	142.25E–.05	41	4.3b,3.8		
NEIC	III	14 22 41 36.2–1.6	38.61N	142.06E	36–14	4.7b,3.8		
JMA	III	14 22 41 38.8–.20	38.84N	142.00E	49–2	3.6,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=18.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=174.2.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.3km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**14 22 41 46.3–.10**	**37.19N**	**141.04E**	**31–1**	**3.5**		**¶16477989**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 23 00 17.7–1.5**	**38.64N–.06**	**141.99E–.09**	**52–13**	**4.2b**	**44**	**1-79**
IDC	III	14 23 00 13.1–2.5	39.04N	141.90E	0	3.9,3.8		**¶602658983**
NEIC	III	14 23 00 16.6–.61	38.83N	141.99E	35	4.7b,3.8		
ISCJB	III	14 23 00 16.6–.91	38.63N–.05	141.99E–.09	62–6	4.3b,3.8		
JMA	III	14 23 00 17.0–.20	38.62N	141.99E	45–2	3.7,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=55.8km s-min=25.0km az=149.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=8.4km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.0km az=27.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(227) Eastern Honshu

ISC	**III**	**14 23 02 15.2–1.2**	**36.83N–.04**	**138.58E–.04**	**5–9**	**3.6b**	**21**	**0-79**
JMA	III	14 23 02 14.8	36.82N	138.59E	0	3.4		**¶17195279**
ISCJB	III	14 23 02 14.9–.48	36.81N–.03	138.59E–.04	3–5	3.5b		
IDC	III	14 23 02 14.9–1.0	36.53N	138.74E	0	3.9,3.7		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=36.2.
IDC Error ellipse: s-maj=26.1km s-min=7.7km az=172.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 23 03 35.4–1.4**	**37.01N–.09**	**141.26E–.10**	**33**	**3.9b**	**14**	**0-71**
IDC	III	14 23 03 27.8–2.2	37.25N	142.19E	0	4.1,3.8		**¶600546374**
JMA	III	14 23 03 32.7–.10	36.97N	141.35E	31–1	4.0,3.8		
ISCJB	III	14 23 03 33.1–1.2	36.95N–.09	141.39E–.09	33	3.8b,3.8		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**14 23 15 12.2–.94**	**36.26N–.04**	**141.78E–.06**	**19–4**	**4.5b**	**132**	**1-147**
NIED	III	14 23 15 00	36.20N	141.80E	11	4.5W		**¶16461669**
IDC	III	14 23 15 08.8–.52	36.17N	141.77E	0	4.5,4.4		
ISCJB	III	14 23 15 11.1–1.1	36.22N–.03	141.84E–.04	25–7	4.5b,4.4		
JMA	III	14 23 15 12.0–.30	36.23N	141.80E	32	4.6,4.4		
NEIC	III	14 23 15 14.1–.24	36.16N	141.84E	35	4.8b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ42.00000°,λ109.00000°. NP2:ϕ_s355.00000°,δ51.00000°,λ74.00000°. $M_0$5.55000×10^{15}
IDC Error ellipse: s-maj=13.4km s-min=12.5km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=165.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=137.0.

(229) Off east coast of Honshu

ISC	**III**	**14 23 23 10.5–.37**	**39.88N–.04**	**143.23E–.03**	**24–2**	**5.0b,4.9s**	**655**	**1-146**
NIED	III	14 23 23 00	39.90N	143.40E	14	5.0W,4.9s		**¶602442352**
IDC	III	14 23 23 06.0–.48	39.77N	143.38E	0	4.8,4.7		
JMA	III	14 23 23 08.2–.40	39.87N	143.41E	17	5.0,4.7		
ISCJB	III	14 23 23 09.6–.86	39.88N–.03	143.19E–.03	26–5	5.0b,4.8s		
BJI	III	14 23 23 09.6	39.79N	142.87E	20	5.1b,5.1b		
MOS	III	14 23 23 10.5–.96	40.02N	143.23E	29	5.3b,5.1b		
NEIC	III	14 23 23 11.5–.85	39.87N	142.98E	24–6	5.0b,5.1b		
GCMT	III	14 23 23 11.5–.30	39.82N	143.53E	24–1	5.0W,5.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ23.00000°,λ41.00000°. NP2:ϕ_s37.00000°,δ75.00000°,λ108.00000°. $M_0$3.29000×10^{16}

IDC Error ellipse: s-maj=12.6km s-min=10.9km az=147.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.8km az=140.9.
MOS Error ellipse: s-maj=6.7km s-min=3.9km az=105.3.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.2km az=154.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c50; s83,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.98±.19 $M_{\theta\theta}$-0.54±.10; $M_{\phi\phi}$-2.44±.12; $M_{r\theta}$1.05±.14; $M_{\theta\phi}$-0.51±.06; $M_{\phi r}$2.53±.15; Best double couple: NP1:ϕ_s20.00000°,δ67.00000° ,λ94.00000°. NP2:ϕ_s190.00000°,δ23.00000°,λ81.00000°. Principal axes: T 4.1150,Plg67.0000°,Azm297.0000°; N -0.4340,Plg3.0000°,Azm198.0000° ; P -3.6760,Plg22.0000°,Azm107.0000° $M_0$3.89600×10^{16}

(228) Near east coast of eastern Honshu

JMA	**III**	**14 23 30 56.6**	**36.39N**	**140.75E**	**19–1**	**3.5**			**¶602658943**
JMA	Event type fe.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**14 23 35 30.6–2.2**	**38.70N–.05**	**142.43E–.09**	**8–12**	**3.7b**	**21**	**1-59**	
JMA	III	14 23 35 34.3–.20	38.73N	142.34E	26–2	3.9			**¶17195293**
IDC	III	14 23 35 39.0–3.7	38.66N	142.40E	78–32	3.7,3.5			
ISC	Event type ke.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
IDC	Error ellipse: s-maj=32.2km s-min=22.3km az=75.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**14 23 49 51.1–.81**	**38.58N–.08**	**142.17E–.07**	**32–4**	**3.9b**	**34**	**1-145**	
IDC	III	14 23 49 48.8–.64	37.72N	142.20E	48–6	3.9,3.8			**¶17195295**
JMA	III	14 23 49 53.6–.20	38.70N	142.05E	43–2	4.0,3.8			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=16.5km s-min=12.9km az=88.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
(228) Near east coast of eastern Honshu									
JMA	**III**	**14 23 58 57.0–.10**	**38.23N**	**141.71E**	**47–2**	**3.6**			**¶602658888**
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 00 02 49.6–1.6**	**36.13N–.03**	**141.22E–.05**	**2–10**	**4.3b**	**80**	**1-118**	
NIED	III	15 00 02 00	36.20N	141.20E	8	3.9W			**¶16461776**
IDC	III	15 00 02 49.4–.69	36.12N	141.16E	0	4.2,4.1			
JMA	III	15 00 02 51.6–.10	36.16N	141.23E	43–2	4.2,4.1			
NEIC	III	15 00 02 52.4–3.3	36.12N	141.18E	19–20	4.6b,4.1			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ-138.00000°. NP2:ϕ_s59.00000°,δ75.00000°,λ-73.00000°. $M_0$8.64000×10^{14}								
IDC	Error ellipse: s-maj=17.9km s-min=16.6km az=179.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=6.4km s-min=5.3km az=153.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 00 18 44.5–1.4**	**36.20N–.05**	**140.90E–.07**	**24–10**	**3.5b**	**17**	**0-79**	
IDC	III	15 00 18 40.8–1.1	36.17N	140.92E	0	3.8,3.8L			**¶17195960**
ISCJB	III	15 00 18 43.5–.93	36.21N–.05	141.00E–.07	29–5	3.5b,3.8L			
JMA	III	15 00 18 44.2	36.21N	140.92E	33–1	3.7,3.8L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=28.6km s-min=21.6km az=4.0.								
ISCJB	Event type fe. Error ellipse: s-maj=10.9km s-min=7.6km az=143.4.								
JMA	Event type fe.								
(71) Near coast of Guatemala									
ISC	**III**	**15 00 32 44.3–.89**	**13.69N–.07**	**90.90W–.04**	**91–7**	**4.7b**	**113**	**1-147**	
IDC	III	15 00 32 41.6–6.8	14.21N	90.04W	38–55	4.1L,3.9			**¶16478033**
ISCJB	III	15 00 32 44.3–.43	13.74N–.05	90.86W–.03	103–3	4.5b,3.9			
NEIC	III	15 00 32 44.7–.95	13.72N	90.73W	91–8	4.8b,4.3			
CASC	III	15 00 32 46.8–1.3	13.54N	90.77W	22–7	4.8b,3.7L			
MEX	III	15 00 32 48.3–.59	13.66N	91.07W	22–18	4.2,3.7L			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=46.3km s-min=31.1km az=32.0.								
ISCJB	Event type fe. Error ellipse: s-maj=9.0km s-min=3.6km az=31.2.								
NEIC	Event type fe. Error ellipse: s-maj=10.5km s-min=8.4km az=217.0. Felt [I] at San Salvador, El Salvador.								
CASC	Error ellipse: s-maj=12.0km s-min=6.5km az=-1.0.								
MEX	Error ellipse: s-maj=10.1km s-min=12.4km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 00 35 16.0–.55**	**35.95N–.05**	**141.45E–.07**	**26**	**3.9b**	**52**	**1-147**	
NIED	III	15 00 35 00	36.10N	141.30E	32	3.8W			**¶602662405**
IDC	III	15 00 35 12.1–.60	35.92N	141.44E	0	4.1,3.9			
ISCJB	III	15 00 35 14.1–.39	35.94N–.05	141.52E–.05	26	3.9b,3.9			
NEIC	III	15 00 35 15.1–3.5	35.91N	141.43E	19–22	4.1b,3.9			
JMA	III	15 00 35 17.2–.20	36.10N	141.34E	43–3	3.9,3.9			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ36.00000°,λ127.00000°. NP2:ϕ_s34.00000°,δ62.00000°,λ67.00000°. $M_0$6.35000×10^{14}								
IDC	Error ellipse: s-maj=17.9km s-min=15.5km az=105.0.								
ISCJB	Event type fe. Error ellipse: s-maj=6.6km s-min=6.0km az=161.0.								
NEIC	Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=73.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
(228) Near east coast of eastern Honshu									
JMA	**III**	**15 00 36 12.8–.10**	**35.82N**	**140.93E**	**15–1**	**3.6**			**¶600546544**
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 00 38 32.2–2.1**	**37.23N–.04**	**141.69E–.06**	**8–13**	**4.3b**	**67**	**1-146**	
NIED	III	15 00 38 00	37.30N	141.70E	5	4.0W			**¶16478036**
IDC	III	15 00 38 31.6–.65	37.25N	141.69E	0	4.2,4.1L			
JMA	III	15 00 38 32.7–.20	37.27N	141.74E	28–3	4.5,4.1L			
NEIC	III	15 00 38 37.5–.90	37.22N	141.66E	43–8	4.7b,4.1L			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ37.00000°,λ-28.00000°. NP2:ϕ_s194.00000°,δ73.00000°,λ-124.00000°. $M_0$1.14000×10^{15}								
IDC	Error ellipse: s-maj=19.0km s-min=15.4km az=138.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=8.1km s-min=6.6km az=126.0.								
(227) Eastern Honshu									
ISC	**III**	**15 00 54 47.1–1.1**	**39.59N–.03**	**140.46E–.04**	**5–9**	**3.6b**	**18**	**0-76**	
NIED	III	15 00 54 00	39.60N	140.50E	5	3.6W			**¶16315875**
JMA	III	15 00 54 46.8	39.58N	140.45E	8–1	3.8			
ISCJB	III	15 00 54 46.8–.58	39.56N–.03	140.46E–.05	15–4	3.4b			
IDC	III	15 00 54 52.5–3.2	39.77N	139.33E	60–32	3.7,3.7s			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ68.00000°,λ-1.00000°. NP2:ϕ_s9.00000°,δ90.00000°,λ-158.00000°. $M_0$3.02000×10^{14}								
JMA	Event type fe.								
ISCJB	Event type fe. Error ellipse: s-maj=6.9km s-min=5.3km az=157.1.								
IDC	Error ellipse: s-maj=35.3km s-min=20.7km az=95.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 01 04 39.5–1.3**	**39.69N–.05**	**142.05E–.08**	**52–11**	**3.8b**	**35**	**1-75**	
IDC	III	15 01 04 34.3–1.8	40.01N	141.91E	0	3.9,3.8			**¶600546592**
JMA	III	15 01 04 38.3–.10	39.69N	142.16E	44–2	3.8,3.8			
ISCJB	III	15 01 04 38.5–.75	39.69N–.04	142.07E–.08	59–6	3.7b,3.0s			
ISC	Event type ke.								
JMA	Event type fe.								
ISCJB	Event type fe.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 01 34 50.0–2.3**	**38.66N–.06**	**142.1E–.10**	**50–20**	**3.5b,3.2s**	**20**	**1-70**	
IDC	III	15 01 34 40.4–2.5	38.79N	142.91E	0	3.6,3.5			**¶17195976**
JMA	III	15 01 34 49.8–.10	38.66N	142.08E	42–1	3.6,3.5			
ISCJB	III	15 01 34 49.5–1.4	38.64N–.05	142.1E–.10	58–10	3.5b,3.3s			
ISC	Event type ke.								
JMA	Event type fe.								
ISCJB	Event type fe.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 01 35 44.1–.99**	**39.51N–.04**	**142.79E–.05**	**24–6**	**4.6b**	**166**	**1-145**	
NIED	III	15 01 35 00	39.40N	142.90E	5	4.7W			**¶16318236**
JMA	III	15 01 35 39.7–.20	39.40N	142.94E	0	4.8			
IDC	III	15 01 35 43.3–5.7	39.30N	142.93E	27–38	4.3,4.3			
ISCJB	III	15 01 35 45.1–.60	39.51N–.04	142.75E–.05	42–5	4.6b,3.4s			
NEIC	III	15 01 35 46.1–.54	39.54N	142.69E	35–5	4.7b,3.4s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ7.00000°,λ-16.00000°. NP2:ϕ_s225.00000°,δ88.00000°,λ-97.00000°. $M_0$1.43000×10^{16}								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
IDC	Error ellipse: s-maj=15.4km s-min=12.9km az=116.0.								
ISCJB	Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=137.4.								
NEIC	Event type se. Error ellipse: s-maj=5.2km s-min=3.3km az=144.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 02 09 23.1–.71**	**35.67N–.05**	**141.33E–.07**	**25**	**3.5b**	**25**	**0-79**	
IDC	III	15 02 09 19.4–.86	35.84N	141.60E	0	3.8,3.7			**¶600546681**
ISCJB	III	15 02 09 21.9–.65	35.68N–.05	141.37E–.08	25	3.5b,3.7			
JMA	III	15 02 09 25.2–.10	35.67N	141.05E	28–1	3.7,3.7			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=24.3km s-min=19.3km az=94.0.								
ISCJB	Event type fe. Error ellipse: s-maj=8.8km s-min=7.2km az=7.6.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
(228) Near east coast of eastern Honshu									
JMA	**III**	**15 02 16 14.3–.10**	**38.87N**	**141.99E**	**48–1**	**3.6**			**¶16424499**
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 02 31 59.0–.85**	**35.86N–.05**	**140.91E–.09**	**40–7**	**4.2b**	**45**	**0-148**	
NIED	III	15 02 31 00	35.90N	140.90E	41	4.2W			**¶17195991**
IDC	III	15 02 31 53.2–.61	35.89N	140.89E	0	4.3,4.1			
ISCJB	III	15 02 31 57.9–.57	35.83N–.04	140.91E–.08	48–4	4.1b,4.1			
NEIC	III	15 02 31 58.9–1.2	35.81N	140.94E	42–11	4.5b,4.1			
JMA	III	15 02 31 59.5–.10	35.90N	140.88E	36–1	3.8,4.1			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ15.00000°,λ57.00000°. NP2:ϕ_s13.00000°,δ77.00000°,λ98.00000°. $M_0$2.36000×10^{15}								
IDC	Error ellipse: s-maj=17.2km s-min=13.9km az=79.0.								
ISCJB	Event type se. Error ellipse: s-maj=11.4km s-min=6.5km az=166.3.								
NEIC	Event type se. Error ellipse: s-maj=14.7km s-min=9.0km az=52.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 02 33 50.0–1.2**	**39.2N–.10**	**142.6E–.10**	**27**	**4.1b**	**17**	**1-73**	
IDC	III	15 02 33 46.6–2.7	39.17N	142.28E	0	4.1,4.0b			**¶600546695**
ISCJB	III	15 02 33 47.6–.88	39.06N–.08	142.7E–.10	27	4.0b,4.0b			
JMA	III	15 02 33 53.8–.20	39.15N	142.34E	33–5	3.9,4.0b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=103.7km s-min=20.2km az=67.0.								
ISCJB	Event type fe. Error ellipse: s-maj=15.2km s-min=7.3km az=136.5.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 02 59 57.2–1.1**	**36.20N–.08**	**141.16E–.08**	**31**	**3.5b**	**15**	**1-60**	
IDC	III	15 02 59 52.4–1.2	36.06N	141.24E	0	3.7,3.6b			**¶17196005**
ISCJB	III	15 02 59 55.1–.85	36.11N–.08	141.22E–.08	31	3.6b,3.6b			
JMA	III	15 02 59 59.3–.10	36.25N	141.02E	46–1	3.5,3.6b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=34.4km s-min=21.1km az=71.0.								
ISCJB	Event type fe. Error ellipse: s-maj=12.4km s-min=8.1km az=36.1.								
JMA	Event type fe.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 03 16 08.2–1.2**	**36.75N–.06**	**141.47E–.09**	**26**	**3.8b**	**17**	**1-75**	
NIED	III	15 03 16 00	36.80N	141.30E	38	3.8W			**¶17196007**
IDC	III	15 03 16 02.9–1.9	36.88N	141.85E	0	3.8,3.8			
ISCJB	III	15 03 16 06.7–.95	36.71N–.05	141.54E–.08	26	3.6b,3.8			
JMA	III	15 03 16 10.2–.10	36.76N	141.29E	46–2	3.7,3.8			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ19.00000°,λ151.00000°. NP2:ϕ_s37.00000°,δ81.00000°,λ73.00000°. $M_0$5.13000×10^{14}								
IDC	Error ellipse: s-maj=49.6km s-min=24.3km az=75.0.								
ISCJB	Event type fe. Error ellipse: s-maj=9.6km s-min=6.9km az=157.6.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 03 17 25.6–3.7**	**39.14N–.04**	**142.51E–.06**	**28–26**	**4.5b**	**75**	**1-145**	
NIED	III	15 03 17 00	39.20N	142.40E	32	4.3W			**¶16424503**
IDC	III	15 03 17 21.4–.55	39.13N	142.38E	0	4.6L,4.4			
JMA	III	15 03 17 25.5–.20	39.20N	142.43E	23–3	4.5,4.4			
ISCJB	III	15 03 17 26.2–.76	39.15N–.03	142.44E–.06	46–6	4.3b,4.4			
NEIC	III	15 03 17 27.3–.84	39.09N	142.48E	42–8	4.6b,4.4			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ26.00000°,λ-123.00000°. NP2:ϕ_s167.00000°,δ68.00000°,λ-75.00000°. $M_0$3.18000×10^{15}								
IDC	Error ellipse: s-maj=16.0km s-min=13.4km az=117.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
ISCJB	Event type fe. Error ellipse: s-maj=8.3km s-min=4.8km az=22.3.								
NEIC	Event type se. Error ellipse: s-maj=9.3km s-min=6.9km az=126.0.								
(228) Near east coast of eastern Honshu									
ISC	**III**	**15 03 20 44.4–1.1**	**35.81N–.04**	**140.85E–.06**	**14–6**	**4.3b**	**51**	**0-148**	
NIED	III	15 03 20 00	35.90N	140.90E	5	4.5W			**¶16424504**
IDC	III	15 03 20 42.0–.54	35.75N	140.81E	0	4.3,4.2			
ISCJB	III	15 03 20 43.5–.58	35.76N–.03	140.91E–.06	22–3	4.3b,4.0s			
JMA	III	15 03 20 43.9–.10	35.86N	140.92E	10–2	4.6,4.0s			
NEIC	III	15 03 20 46.6–1.8	35.77N	140.86E	29–12	4.8b,4.0s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ43.00000°,λ-74.00000°. NP2:ϕ_s160.00000°,δ49.00000°,λ-104.00000°. $M_0$6.71000×10^{15}								
IDC	Error ellipse: s-maj=17.1km s-min=12.9km az=90.0.								
ISCJB	Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=161.2.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=7.6km s-min=5.6km az=82.0.								
(229) Off east coast of Honshu									
ISC	**III**	**15 03 21 35.3–.57**	**37.71N–.04**	**144.02E–.04**	**29–3**	**5.0b,4.7s**	**463**	**3-153**	
NIED	III	15 03 21 00	37.70N	144.00E	8	5.0W,4.7s			**¶16314750**
IDC	III	15 03 21 30.4–.45	37.61N	144.11E	0	4.8,4.7			
ISCJB	III	15 03 21 32.0–.82	37.78N–.02	143.93E–.02	12–5	4.9b,4.6s			
JMA	III	15 03 21 33.3–.40	37.71N	143.99E	43	5.1,4.6s			
NEIC	III	15 03 21 35.3–1.6	37.71N	143.94E	26–11	5.0b,4.6s			
BJI	III	15 03 21 35.3	37.95N	143.77E	19	5.2b,4.9s			
GCMT	III	15 03 21 35.3–.20	37.70N	144.08E	14–0	5.0W,4.9s			
MOS	III	15 03 21 36.1–.91	38.01N	143.91E	33	5.2b,4.4s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ42.00000°,λ-55.00000°. NP2:ϕ_s173.00000°,δ57.00000°,λ-118.00000°. $M_0$3.69000×10^{16}								
IDC	Error ellipse: s-maj=13.2km s-min=10.9km az=120.0.								
ISCJB	Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=172.9.								
JMA	Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=5.2km s-min=3.2km az=143.0.								
GCMT	Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c62; s85,c149; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.52±.21 $M_{\theta\theta}$-1.33±.13; $M_{\phi\phi}$4.85±.14; $M_{r\theta}$-0.52±.34; $M_{\theta\phi}$1.84±.08; $M_{\phi r}$1.07±.25; Best double couple: NP1:ϕ_s177.00000°,δ54.00000° ,λ-116.00000°. NP2:ϕ_s36.00000°,δ43.00000°,λ-59.00000°. Principal axes: T 5.4460,Plg6.0000°,Azm285.0000°; N -1.5400,Plg21.0000°,Azm193.0000° ; P -3.9060,Plg69.0000°,Azm30.0000° $M_0$4.67600×10^{16}								
MOS	Error ellipse: s-maj=6.9km s-min=4.2km az=102.2.								
(568) Uganda									
ISC	**III**	**15 03 25 19.2–.33**	**1.63N–.04**	**31.28E–.04**	**10**	**5.0b,4.5s**	**186**	**5-131**	
IDC	III	15 03 25 17.2–.48	1.73N	31.22E	0	4.6b,4.6			**¶16359833**
ISCJB	III	15 03 25 17.4–.22	1.74N–.03	31.17E–.04	10	5.0b,4.5s			
MOS	III	15 03 25 17.4–1.2	1.78N	31.24E	10	5.2b,4.5s			
NEIC	III	15 03 25 19.4–.22	1.75N	31.23E	10	5.1b,4.5s			
BJI	III	15 03 25 19.5	2.12N	31.42E	10	5.2b,5.1s			
GCMT	III	15 03 25 19.4–.20	1.89N	31.02E	22–0	5.0W,5.1s			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=15.8km s-min=11.8km az=111.0.								
ISCJB	Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=13.4.								

MOS Error ellipse: s-maj=11.5km s-min=6.7km az=76.3.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=109.0. Felt [IV] at Masindi, [III] at Gulu and [II] at Entebbe and Kampala. Also felt at Fort Portal, Hoima, Iganga, Jinja, Lira, Luwero, Mpigi, Mubende, Namasuba, Tororo and Wakiso.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c63; s78,c110; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.50±.20 $M_{\theta\theta}$2.70±.12; $M_{\phi\phi}$0.79±.15; $M_{r\theta}$1.34±.19; $M_{\theta\phi}$2.08±.09; $M_{\phi r}$0.68±.27; Best double couple: NP1:ϕ_s240.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ_s54.00000°,δ34.00000°,λ-95.00000°. Principal axes: T 4.3210,Plg11.0000°,Azm328.0000°; N -0.5310,Plg3.0000°,Azm58.0000°; P -3.7920,Plg79.0000°,Azm161.0000° $M_0$4.05700×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**15 03 28 44.3–.74**	**36.21N–.05**	**141.25E–.07**	**31**	**3.6b**	**17**	**1-147**
NIED	III	15 03 28 00	36.20N	141.40E	8	4.0W		**¶600546785**
ISCJB	III	15 03 28 43.0–.61	36.18N–.04	141.34E–.06	31	3.6b		
JMA	III	15 03 28 42.7–.10	36.20N	141.38E	26–2	3.6		
IDC	III	15 03 28 50.2–3.4	36.49N	140.23E	99–33	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ68.00000°,λ174.00000°. NP2:ϕ_s113.00000°,δ84.00000°,λ22.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=6.3km az=5.7.
JMA Event type fe.
IDC Error ellipse: s-maj=41.6km s-min=19.0km az=107.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**15 03 44 14.0–.20**	**38.74N**	**142.09E**	**36–2**	**3.7**		
								¶602662984

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 04 08 45.5–.46**	**36.90N–.05**	**142.07E–.06**	**19**	**4.5b,4.1s**	**90**	**1-146**
NIED	III	15 04 08 00	36.90N	141.90E	26	4.6W,4.1s		**¶600546837**
ISCJB	III	15 04 08 43.6–.30	36.89N–.03	142.10E–.04	19	4.4b,4.0s		
NEIC	III	15 04 08 46.0–1.6	36.91N	142.07E	23–11	4.7b,4.0s		
JMA	III	15 04 08 46.2–.20	36.92N	141.87E	21–2	4.6,4.0s		
IDC	III	15 04 08 48.2–1.9	36.84N	141.99E	42–18	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ10.00000°,λ-30.00000°. NP2:ϕ_s223.00000°,δ85.00000°,λ-99.00000°. $M_0$8.22000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.8km az=40.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.2km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.0km s-min=10.9km az=92.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**15 04 16 31.1–.30**	**38.31N**	**141.87E**	**45–4**	**3.8**		
								¶602662937

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 04 55 50.0–.51**	**39.34N–.06**	**141.99E–.06**	**46**	**4.4b**	**96**	**1-145**
NIED	III	15 04 55 00	39.40N	142.10E	53	4.6W		**¶17196034**
ISCJB	III	15 04 55 47.9–.35	39.27N–.04	142.17E–.05	46	4.5b,3.2s		
BJI	III	15 04 55 48.7	39.36N	142.39E	83	4.9b,4.7b		
JMA	III	15 04 55 50.1–.20	39.38N	142.06E	49–2	4.5,4.7b		
NEIC	III	15 04 55 51.5–.80	39.37N	141.89E	61–7	4.5b,4.7b		
IDC	III	15 04 55 54.2–2.3	39.39N	141.90E	86–20	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ20.00000°,λ76.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ95.00000°. $M_0$8.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=137.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.9km az=130.0.
IDC Error ellipse: s-maj=12.7km s-min=11.1km az=136.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**15 04 56 05.5–.10**	**36.73N**	**141.06E**	**20–1**	**4.4**		
NIED	III	15 04 56 00	36.70N	141.10E	5	4.1W		**¶16478108**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ53.00000°,λ-149.00000°. NP2:ϕ_s218.00000°,δ65.00000°,λ-41.00000°. $M_0$1.79000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**III**	**15 05 01 22.0–.10**	**36.54N**	**140.84E**	**48–1**	**3.4**		
								¶603049799

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**15 05 05 27.2**	**36.75N**	**140.58E**	**3–1**	**3.7**		
NIED	III	15 05 05 00	36.80N	140.60E	11	4.3W		**¶600546891**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ30.00000°,λ-87.00000°. NP2:ϕ_s145.00000°,δ60.00000°,λ-92.00000°. $M_0$3.53000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**III**	**15 05 28 38.3–.73**	**35.99N–.04**	**140.45E–.05**	**59–6**	**4.5b**	**75**	**0-148**
NIED	III	15 05 28 00	36.10N	140.40E	56	4.4W		**¶602663374**
NEIC	III	15 05 28 35.9–.49	36.00N	140.47E	35	4.8b		
ISCJB	III	15 05 28 37.6–.46	35.96N–.04	140.45E–.05	68–3	4.3b		
JMA	III	15 05 28 38.7–.10	36.02N	140.39E	54–1	3.9		
IDC	III	15 05 28 40.1–1.2	35.86N	140.30E	77–10	4.4,4.2		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ26.00000°,λ95.00000°. NP2:ϕ_s4.00000°,δ65.00000°,λ88.00000°. $M_0$4.89000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=10.2km az=117.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.7km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000°,δ77.00000°,λ85.00000°. NP2:ϕ_s223.00000°,δ14.00000°,λ111.00000°. Principal axes: T Plg58.0000°,Azm285.0000°; N Plg5.0000°,Azm23.0000°; P Plg32.0000°,Azm116.0000°
IDC Error ellipse: s-maj=12.8km s-min=7.4km az=61.0.

(229) Off east coast of Honshu

ISC	**III**	**15 05 40 25.0–.65**	**37.71N–.05**	**142.13E–.08**	**37–2**	**4.4b**	**89**	**1-146**
NIED	III	15 05 40 00	37.70N	142.00E	32	4.2W		**¶16314755**
JMA	III	15 05 40 23.7–.20	37.75N	142.02E	29–4	4.5		
ISCJB	III	15 05 40 24.4–.75	37.75N–.04	142.06E–.05	43–6	4.4b		
IDC	III	15 05 40 26.7–2.1	37.75N	142.02E	52–19	4.3,4.2		
NEIC	III	15 05 40 27.1–.75	37.80N	142.04E	51–6	4.5b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ47.00000°,λ-65.00000°. NP2:ϕ_s215.00000°,δ48.00000°,λ-115.00000°. $M_0$2.34000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=33.4.
IDC Error ellipse: s-maj=13.9km s-min=12.0km az=107.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.4km az=138.0.

(594) Queensland

ISC	**III**	**15 06 08 00.1–1.1**	**17.34S–.06**	**146.33E–.07**	**10**		**28**	**2-15**
ISCJB	III	15 06 07 57.8–.93	17.28S–.06	146.23E–.08	10			**¶16478126**
IDC	III	15 06 07 58.7–2.5	17.29S	146.16E	0	3.9,3.9		
AUST	III	15 06 07 59.1–.26	17.33S	146.25E	0	3.9,3.9		
NEIC	III	15 06 07 59.0	17.33S	146.25E	0	3.6L,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=8.5km az=153.6.
IDC Error ellipse: s-maj=29.1km s-min=23.1km az=87.0.
AUST Error ellipse: s-maj=3.4km s-min=2.6km az=44.0.
NEIC Event type fe. Felt at Innisfail. After AUST.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 06 21 15.9–1.9**	**39.89N–.05**	**142.51E–.06**	**9–11**	**3.9b**	**38**	**1-88**
NIED	III	15 06 21 00	39.90N	142.50E	11	4.1W		**¶16461789**
JMA	III	15 06 21 16.1–.20	39.85N	142.52E	14–3	4.4		
NEIC	III	15 06 21 19.9–.85	39.83N	142.68E	43–7	4.5b		
IDC	III	15 06 21 21.2–2.3	39.79N	142.59E	55–21	4.0,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ49.00000°,λ-147.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ-46.00000°. $M_0$1.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=6.0km az=121.0.
IDC Error ellipse: s-maj=18.0km s-min=13.3km az=103.0.

(229) Off east coast of Honshu

ISC	**III**	**15 06 31 30.0–.52**	**37.33N–.06**	**142.14E–.07**	**24**	**4.2b**	**56**	**1-154**
NIED	III	15 06 31 00	37.30N	142.10E	17	4.1W		**¶16478131**
IDC	III	15 06 31 26.3–.55	37.32N	142.22E	0	4.3,4.2		
JMA	III	15 06 31 28.7–.40	37.25N	142.12E	43	4.4,4.2		
ISCJB	III	15 06 31 28.0–.38	37.29N–.04	142.17E–.05	24	4.2s,4.2b		
NEIC	III	15 06 31 31.5–.32	37.33N	142.14E	35	4.8b,4.2b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ13.00000°,λ-33.00000°. NP2:ϕ_s181.00000°,δ83.00000°,λ-101.00000°. $M_0$1.59000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.2km az=127.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.1km az=16.3.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.7km az=121.0.

(227) Eastern Honshu

JMA	**III**	**15 06 32 29.0**	**35.98N**	**137.31E**	**8–1**	**3.8**		
NIED	III	15 06 32 00	36.00N	137.30E	8	4.1W		**¶600547055**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ57.00000°,λ-8.00000°. NP2:ϕ_s229.00000°,δ83.00000°,λ-147.00000°. $M_0$1.82000×10^{15}

(229) Off east coast of Honshu

ISC	**III**	**15 06 40 24.4–1.2**	**37.55N–.04**	**143.80E–.05**	**16–7**	**4.9b,3.9s**	**338**	**2-153**
NIED	III	15 06 40 00	37.50N	143.70E	5	4.7W,3.9s		**¶16314758**
IDC	III	15 06 40 21.8–.40	37.49N	143.85E	0	4.7,4.7		
ISCJB	III	15 06 40 24.0–1.1	37.55N–.03	143.70E–.03	19–7	4.8b,3.8s		
JMA	III	15 06 40 25.7–.50	37.51N	143.68E	48	4.8,3.8s		
NEIC	III	15 06 40 27.7–.19	37.53N	143.74E	35	4.9b,3.8s		
MOS	III	15 06 40 27.3–.93	37.84N	143.65E	33	5.1b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ46.00000°,λ-24.00000°. NP2:ϕ_s335.00000°,δ73.00000°,λ-133.00000°. $M_0$1.06000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=10.5km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=164.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=150.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=113.9.

(227) Eastern Honshu

ISC	**III**	**15 06 51 46.9–1.5**	**36.99N–.05**	**138.63E–.04**	**13–12**		**16**	**0-60**
IDC	III	15 06 51 44.4–2.1	37.08N	138.69E	0	3.8,3.7		**¶602662840**
ISCJB	III	15 06 51 47.0–.65	37.00N–.05	138.60E–.05	30–5	3.7b,3.7		
JMA	III	15 06 51 48.1	36.98N	138.62E	9–1	2.5,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=11.9km az=24.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.2km az=163.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 06 56 27.4–.69**	**36.75N–.03**	**140.51E–.03**	**10–4**	**4.7b**	**457**	**0-147**
NIED	III	15 06 56 00	36.80N	140.60E	5	4.4W		**¶602662829**
IDC	III	15 06 56 25.7–.43	36.74N	140.45E	0	4.6,4.5		
JMA	III	15 06 56 26.6	36.76N	140.60E	0	4.7,4.5		
ISCJB	III	15 06 56 28.0–.48	36.77N–.02	140.50E–.03	21–3	4.6b,4.5		
NEIC	III	15 06 56 32.2–.47	36.81N	140.34E	39–4	4.7b,4.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ35.00000°,λ-82.00000°. NP2:ϕ_s197.00000°,δ56.00000°,λ-95.00000°. $M_0$4.70000×10^{15}
IDC Error ellipse: s-maj=12.0km s-min=11.2km az=95.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s218.00000°,δ46.00000°,λ-70.00000°. Principal axes: T Plg1.0000°,Azm114.0000°; N Plg14.0000°,Azm24.0000°; P Plg76.0000°,Azm208.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.7km az=33.3.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.8km az=151.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 06 59 10.8–2.0**	**37.45N–.05**	**141.79E–.08**	**24–13**	**3.7b**	**32**	**1-146**
IDC	III	15 06 59 06.7–.74	37.56N	142.11E	0	4.0,3.9		**¶17196064**
ISCJB	III	15 06 59 11.4–1.2	37.41N–.04	141.75E–.09	42–11	3.8b,3.9		
JMA	III	15 06 59 14.6–.10	37.44N	141.49E	40–2	4.0,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=18.4km s-min=18.0km az=18.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.8km az=174.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 07 03 44.1–.92**	**36.76N–.03**	**140.51E–.04**	**4–5**	**4.9b,4.0s**	**302**	**0-158**
NIED	III	15 07 03 00	36.70N	140.60E	5	4.8W,4.0s		**¶600547095**
ISCJB	III	15 07 03 43.8–.66	36.76N–.02	140.41E–.03	7–4	4.8b,4.2s		
IDC	III	15 07 03 43.3–.40	36.73N	140.52E	0	4.7,4.6		
JMA	III	15 07 03 44.2–.30	36.75N	140.59E	0–3	4.9,4.6		
NEIC	III	15 07 03 49.3–1.1	36.79N	140.35E	35–8	4.9b,4.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ41.00000°,λ-93.00000°. NP2:ϕ_s193.00000°,δ49.00000°,λ-87.00000°. $M_0$1.52000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=38.2.
IDC Error ellipse: s-maj=11.4km s-min=10.5km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=140.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 07 06 37.7–1.2**	**36.75N–.04**	**140.55E–.06**	**7–8**	**3.6b**	**17**	**0-91**
IDC	III	15 07 06 36.8–.97	36.69N	140.53E	0	4.0,3.6		**¶602662815**
ISCJB	III	15 07 06 37.0–.78	36.70N–.05	140.67E–.07	10–5	3.5b,3.6		
JMA	III	15 07 06 37.7	36.74N	140.58E	4–1	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.6km az=173.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.7km az=35.1.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 07 08 28.1–.34**	**38.31N–.04**	**142.39E–.04**	**28–1**	**5.0b,4.6s**	**864**	**1-156**
NIED	III	15 07 08 00	38.40N	142.30E	38	4.9W,4.6s		**¶16314761**
BJI	III	15 07 08 24.3	38.26N	142.46E	25	4.9b,4.8b		
JMA	III	15 07 08 28.9–.30	38.35N	142.30E	30–4	4.9,4.8b		
ISCJB	III	15 07 08 29.2–.53	38.37N–.03	142.23E–.03	43–4	4.9b,4.4s		
IDC	III	15 07 08 29.7–.45	38.30N	142.27E	37–2	4.9,4.7		
MOS	III	15 07 08 29.3–.79	38.61N	142.20E	35	5.2b,4.6s		
NEIC	III	15 07 08 30.9–.40	38.34N	142.20E	44–3	4.9b,4.6s		
GCMT	III	15 07 08 30.9–.40	38.39N	142.23E	34–3	5.0W,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ16.00000°,λ36.00000°. NP2:ϕ_s71.00000°,δ81.00000°,λ103.00000°. $M_0$2.15000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=165.3.
IDC Error ellipse: s-maj=10.2km s-min=9.8km az=100.0.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=98.6.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=149.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c15; s68,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.09±.22 $M_{\theta\theta}$-0.58±.13; $M_{\phi\phi}$-0.50±.14; $M_{r\theta}$3.00±.41; $M_{\theta\phi}$-0.84±.08; $M_{\phi r}$0.97±.16; Best double couple: NP1:ϕ_s70.00000°,δ80.00000°,λ101.00000°. NP2:ϕ_s201.00000°,δ14.00000°,λ42.00000°. Principal axes: T 3.3880,Plg53.0000°,Azm353.0000°; N 0.0220,Plg11.0000°,Azm248.0000°; P -3.4070,Plg35.0000°,Azm151.0000° $M_0$3.39800×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**15 07 20 49.7–1.7**	**36.27N–.05**	**140.97E–.07**	**16–11**	**3.6b**	**18**	**0-56**
IDC	III	15 07 20 44.9–2.5	36.28N	141.54E	0	4.5,4.5s		**¶17196071**
JMA	III	15 07 20 51.7–.10	36.29N	141.02E	45–1	3.4,4.5s		

ISC Event type ke.
IDC Error ellipse: s-maj=72.9km s-min=27.0km az=62.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**15 07 35 43.6–.36**	**37.44N–.05**	**142.41E–.05**	**32–2**	**4.8b,3.8s**	**574**	**1-156**
ISCJB	III	15 07 35 41.0–1.3	37.44N–.03	142.38E–.03	22–9	4.8b,3.8s		**¶600547157**
JMA	III	15 07 35 42.0–.20	37.44N	142.30E	16	4.8,3.8s		

NEIC III 15 07 35 44.7–.29 37.49N 142.30E 35–2 4.8b,3.8s
IDC III 15 07 35 44.1–.51 37.47N 142.36E 34–4 4.7,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=163.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.1km az=141.0.
IDC Error ellipse: s-maj=11.2km s-min=10.5km az=106.0.

(228) Near east coast of eastern Honshu

JMA III 15 07 37 21.4–.10 36.54N 141.08E 44–1 3.5 ¶602662753

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC III 15 07 44 33.6–.96 37.25N–.04 140.37E–.04 17–9 3.5b 16 0-45
JMA III 15 07 44 33.9 37.26N 140.38E 13–1 3.1 **¶602662731**
ISCJB III 15 07 44 33.8–.59 37.24N–.03 140.38E–.05 13–6 3.4b
IDC III 15 07 44 39.3–3.4 36.13N 140.07E 0 3.6,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.8km az=150.9.
IDC Error ellipse: s-maj=72.3km s-min=25.1km az=72.0.

(228) Near east coast of eastern Honshu

ISC III 15 07 48 26.9–.49 37.18N–.04 141.32E–.06 22–4 4.4b 118 0-147
NIED III 15 07 48 00 37.10N 141.40E 11 4.2W **¶602443556**
JMA III 15 07 48 26.7–.10 37.23N 141.34E 28–1 4.4
IDC III 15 07 48 26.8–.48 37.18N 141.32E 21–2 4.2,4.1L
ISCJB III 15 07 48 27.7–.64 37.15N–.03 141.29E–.06 40–6 4.4b,4.1L
NEIC III 15 07 48 30.7–.65 37.16N 141.22E 52–6 4.6b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ34.00000°,λ-68.00000°. NP2:ϕ_s197.00000°,δ59.00000°,λ-104.00000°. $M_0$1.95000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=11.4km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=12.6.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=130.0. Recorded [3 JMA] in Fukushima.

(229) Off east coast of Honshu

ISC III 15 08 01 44.1–.39 40.42N–.03 143.41E–.03 19–1 5.3s,5.2b 725 1-154
NIED III 15 08 01 00 40.40N 143.50E 14 5.3W,5.2b **¶16322647**
IDC III 15 08 01 41.1–.44 40.36N 143.45E 0 5.0,5.0s
JMA III 15 08 01 42.3–.20 40.39N 143.46E 13 5.5,5.0s
MOS III 15 08 01 43.1–.93 40.56N 143.26E 14 5.5b,5.4s
ISCJB III 15 08 01 43.5–.77 40.38N–.02 143.29E–.02 20–5 5.2s,5.1b
BJI III 15 08 01 43.4 40.41N 143.27E 24 5.5b,5.4s
GCMT III 15 08 01 43.8–.10 40.35N 143.60E 21–0 5.4W,5.4s
NEIC III 15 08 01 43.8–.13 40.40N 143.24E 12 5.4W,5.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ24.00000°,λ91.00000°. NP2:ϕ_s24.00000°,δ66.00000°,λ90.00000°. $M_0$1.12000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=152.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c140; s117,c222; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.03 $M_{\theta\theta}$-0.07±.01; $M_{\phi\phi}$-0.71±.02; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$1.02±.04; Best double couple: NP1:ϕ_s27.00000°,δ73.00000°,λ94.00000°. NP2:ϕ_s193.00000°,δ18.00000°,λ76.00000°. Principal axes: T 1.4060,Plg62.0000°,Azm304.0000°; N 0.0170,Plg4.0000°,Azm206.0000° ; P -1.4230,Plg28.0000°,Azm114.0000° $M_0$1.41400×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=148.0. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-0.94 $M_{r\theta}$0.51 $M_{\theta\phi}$-0.30 $M_{\phi r}$1.07 Best double couple: NP1:ϕ_s192.00000°,δ21.00000°,λ80.00000°. NP2:ϕ_s24.00000° ,δ69.00000°,λ94.00000°. Principal axes: T 1.6000,Plg65.0000°,Azm300.0000° ; N -0.0300,Plg4.0000°,Azm202.0000°; P -1.5700,Plg24.0000°,Azm111.0000° $M_0$1.60000×10^{17}

(228) Near east coast of eastern Honshu

ISC III 15 08 23 09.9–2.5 39.56N–.09 142.62E–.09 4–13 3.4b 17 1-47
IDC III 15 08 23 03.6–3.3 38.67N 142.84E 0 3.6,3.6b **¶600547255**
ISCJB III 15 08 23 10.6–1.7 39.54N–.08 142.67E–.08 16–9 3.4b,3.6b
JMA III 15 08 23 12.3–.20 39.56N 142.54E 13–3 4.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=73.3km s-min=27.1km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=10.6km az=167.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 15 08 39 52.9–.10 37.43N 141.32E 35–1 3.7 ¶603049804

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 15 08 45 31.0–.42 35.96N–.04 141.40E–.06 26 4.4b 91 1-147
NIED III 15 08 45 00 36.00N 141.50E 26 4.2W **¶602662594**
ISCJB III 15 08 45 29.3–.27 35.94N–.03 141.51E–.04 26 4.4b
JMA III 15 08 45 30.7–.10 35.98N 141.46E 38–2 4.1
IDC III 15 08 45 32.7–.64 35.86N 141.40E 41–6 4.2,4.1
NEIC III 15 08 45 33.5–.61 35.86N 141.44E 50–5 4.8b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ31.00000°,λ-89.00000°. NP2:ϕ_s84.00000°,δ59.00000°,λ-91.00000°. $M_0$2.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.2km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.3km s-min=8.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.3km az=156.0.

(228) Near east coast of eastern Honshu

JMA III 15 08 56 31.1–.10 36.65N 141.01E 45–2 3.8 ¶602663302

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 15 08 56 39.6–.48 39.48N–.06 142.54E–.05 29 4.5b 92 1-145
IDC III 15 08 56 34.6–.71 39.44N 142.57E 0 4.5,4.2 **¶16424513**
JMA III 15 08 56 37.9–.20 39.57N 142.62E 10–3 4.5,4.2
ISCJB III 15 08 56 38.3–.26 39.48N–.04 142.60E–.04 29 4.5b,3.4s
NEIC III 15 08 56 41.9–.69 39.47N 142.58E 47–7 4.6b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=16.7km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.0km az=166.7.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.2km az=127.0.

(228) Near east coast of eastern Honshu

ISC III 15 09 22 50.7–1.7 39.69N–.06 142.3E–.10 18–6 3.9b 18 1-73
IDC III 15 09 22 47.0–2.0 39.70N 142.49E 0 3.9,3.8 **¶17196104**
JMA III 15 09 22 55.4–.10 39.70N 142.17E 42–2 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=75.0km s-min=26.9km az=69.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 15 09 39 30.7–1.1 36.88N–.05 141.11E–.08 44–10 3.6b 24 0-90
ISCJB III 15 09 39 29.8–.79 36.83N–.05 141.16E–.08 51–6 3.6b **¶17196107**
JMA III 15 09 39 31.0–.10 36.88N 141.06E 49–1 3.6
IDC III 15 09 39 34.6–2.4 36.75N 140.88E 87–23 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.4km az=15.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.0km s-min=16.2km az=91.0.

(228) Near east coast of eastern Honshu

ISC III 15 09 41 03.2–.99 35.82N–.04 140.89E–.06 10–6 4.1b 33 0-148
NIED III 15 09 41 00 35.90N 141.00E 5 4.1W **¶16322648**
IDC III 15 09 41 01.2–.65 35.67N 141.03E 0 4.1,4.0
ISCJB III 15 09 41 01.5–.91 35.80N–.04 141.04E–.05 12–5 4.0b,4.0
JMA III 15 09 41 02.6–.10 35.84N 140.93E 9–2 4.3,4.0
NEIC III 15 09 41 06.4–.52 35.74N 140.92E 35 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ33.00000°,λ-56.00000°. NP2:ϕ_s160.00000°,δ63.00000°,λ-110.00000°. $M_0$1.80000×10^{15}
IDC Error ellipse: s-maj=19.9km s-min=16.9km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.7km az=3.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=11.4km az=114.0. Recorded [3 JMA] in Ibaraki.

(229) Off east coast of Honshu

ISC III 15 09 49 54.2–.36 37.35N–.03 142.38E–.03 19–1 6.0b,5.6s 2142 1-161
NIED III 15 09 49 00 37.40N 142.30E 5 5.9W,5.6s **¶16315885**
IDC III 15 09 49 50.9–.31 37.32N 142.42E 0 5.5,5.5
BJI III 15 09 49 50.3 37.40N 142.45E 15 6.1s,6.0b
JMA III 15 09 49 51.5–.20 37.39N 142.33E 7–2 6.3,6.0b
ISCJB III 15 09 49 51.3–.60 37.35N–.02 142.34E–.01 9–3 5.9b,5.6s
GCMT III 15 09 49 52.6–.10 37.44N 142.29E 12 5.8W,5.6s
MOS III 15 09 49 52.2–.89 37.41N 142.34E 24 6.2b,5.6s
NEIC III 15 09 49 52.6–.07 37.37N 142.30E 8 6.0,6.0b
NEIC III 15 09 49 54.0–.00 37.15N 142.61E 15 6.0,6.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ22.00000°,λ-80.00000°. NP2:ϕ_s201.00000°,δ68.00000°,λ-94.00000°. $M_0$7.32000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=8.6km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=163.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c230; s145,c434;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.90±.04 $M_{\theta\theta}$0.98±.04; $M_{\phi\phi}$4.92±.04; $M_{r\theta}$1.95±.12; $M_{\theta\phi}$1.93±.04; $M_{\phi r}$2.84±.12; Best double couple: NP1:ϕ_s208.00000°,δ60.00000°,λ-84.00000°. NP2:ϕ_s17.00000°,δ30.00000°,λ-100.00000°. Principal axes: T 6.6200,Plg15.0000°,Azm294.0000°; N 0.2600,Plg5.0000°,Azm25.0000° ; P -6.8760,Plg74.0000°,Azm133.0000° $M_0$6.74800×10^{17}
MOS Error ellipse: s-maj=5.2km s-min=3.4km az=106.2.
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=145.0. Recorded [3 JMA] in Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s30.00000°,δ20.00000°,λ-90.00000°. NP2: ϕ_s210.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm300.0000° ; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm120.0000°
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.13 $M_{\theta\theta}$1.08 $M_{\phi\phi}$3.06 $M_{r\theta}$3.24 $M_{\theta\phi}$1.29 $M_{\phi r}$2.58 Best double couple: NP1:ϕ_s223.00000° ,δ69.00000°,λ-79.00000°. NP2:ϕ_s16.00000°,δ24.00000°,λ-115.00000°. Principal axes: T 5.2900,Plg22.0000°,Azm305.0000°; N 0.7600,Plg10.0000°,Azm39.0000° ; P -6.0500,Plg64.0000°,Azm151.0000° $M_0$5.70000×10^{17}

(229) Off east coast of Honshu

JMA III 15 09 53 16.3–.30 36.71N 142.44E 46 4.8 ¶602663180

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 15 10 06 52.0–1.0 38.71N–.05 142.20E–.09 41 3.8b 19 1-63
ISCJB III 15 10 06 50.7–.82 38.74N–.05 142.25E–.09 41 3.8b **¶17196116**
JMA III 15 10 06 53.8–.10 38.84N 142.01E 48–2 3.6
IDC III 15 10 06 57.1–3.6 38.75N 142.00E 80–31 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.4km az=5.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=18.3km az=79.0.

(228) Near east coast of eastern Honshu

ISC III 15 10 31 28.8–.69 35.82N–.04 140.71E–.05 50–6 4.7b 169 0-148
NIED III 15 10 31 00 35.80N 140.70E 53 4.6W **¶600547487**
ISCJB III 15 10 31 27.9–.36 35.81N–.03 140.72E–.04 59–3 4.6b
MOS III 15 10 31 28.3–1.1 35.94N 140.73E 60 5.1b
NEIC III 15 10 31 28.5–.75 35.84N 140.65E 44–7 4.8b
JMA III 15 10 31 29.1–.10 35.86N 140.62E 47–1 4.5
IDC III 15 10 31 30.2–1.9 35.82N 140.54E 60–17 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ18.00000°,λ117.00000°. NP2:ϕ_s356.00000°,δ74.00000°,λ81.00000°. $M_0$1.00000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=179.7.
MOS Error ellipse: s-maj=8.4km s-min=5.2km az=111.9.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=101.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ88.00000°,λ-83.00000°. NP2: ϕ_s287.00000°,δ7.00000°,λ-168.00000°. Principal axes: T Plg43.0000°,Azm268.0000° ; N Plg7.0000°,Azm5.0000°; P Plg46.0000°,Azm102.0000°
IDC Error ellipse: s-maj=13.5km s-min=9.2km az=90.0.

(228) Near east coast of eastern Honshu

JMA III 15 10 33 07.1–.10 36.66N 140.97E 47–1 3.7 ¶602662569

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(230) Near south coast of eastern Honshu

JMA III 15 10 43 49.1 34.72N 139.30E 0 2.2 ¶602662548

JMA Event type fe.

(229) Off east coast of Honshu

ISC III 15 11 06 15.8–.67 37.17N–.03 142.44E–.04 25–4 5.2b,4.7s 1000 2-160
NIED III 15 11 06 00 37.20N 142.60E 8 5.0W,4.7s **¶16315889**
IDC III 15 11 06 11.9–.37 37.16N 142.45E 0 5.0,5.0
BJI III 15 11 06 12.6 37.15N 142.35E 18 5.4b,5.0b
ISCJB III 15 11 06 13.0–.97 37.15N–.02 142.42E–.02 15–6 5.2b,4.7s
JMA III 15 11 06 13.5–.40 37.20N 142.40E 15–5 5.2,4.7s
GCMT III 15 11 06 15.9–.40 37.25N 142.43E 20–1 5.1W,4.7s
NEIC III 15 11 06 15.9–1.1 37.15N 142.38E 22–7 5.2b,4.7s
MOS III 15 11 06 16.0–.98 37.22N 142.35E 33 5.4b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ43.00000°,λ-41.00000°. NP2:ϕ_s354.00000°,δ63.00000°,λ-125.00000°. $M_0$3.31000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=8.8km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=157.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c21; s81,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.54±.44 $M_{\theta\theta}$0.21±.24; $M_{\phi\phi}$4.33±.25; $M_{r\theta}$0.51±.49; $M_{\theta\phi}$1.80±.11; $M_{\phi r}$-1.99±.35; Best double couple: NP1:ϕ_s7.00000°,δ56.00000° ,λ-106.00000°. NP2:ϕ_s215.00000°,δ37.00000°,λ-67.00000°. Principal axes: T 5.3000,Plg10.0000°,Azm109.0000°; N -0.1850,Plg13.0000°,Azm16.0000° ; P -5.1190,Plg73.0000°,Azm234.0000° $M_0$5.21000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=134.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=105.7.

(228) Near east coast of eastern Honshu

ISC III 15 11 28 43.5–.66 36.92N–.09 142.49E–.10 9 3.8b 25 2-90
ISCJB III 15 11 28 41.3–.51 36.86N–.06 142.56E–.09 9 3.8b **¶602662294**
IDC III 15 11 28 42.2–.78 36.91N 142.52E 0 4.0,3.9
NEIC III 15 11 28 47.2–.49 36.87N 142.49E 35 4.6b,3.9
JMA III 15 11 28 58.0–.20 38.47N 142.09E 41–3 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=8.5km az=163.1.
IDC Error ellipse: s-maj=19.5km s-min=17.9km az=76.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.6km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 15 11 29 02.0–.20 35.72N 140.82E 29–2 3.6
NIED III 15 11 29 00 35.70N 140.80E 44 4.2W **¶16478214**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ47.00000°,λ153.00000°. NP2:ϕ_s9.00000°,δ70.00000°,λ46.00000°. $M_0$2.01000×10^{15}

(228) Near east coast of eastern Honshu

ISC III 15 11 37 59.1–1.2 36.79N–.03 140.53E–.05 4–10 3.5b 18 0-60
ISCJB III 15 11 37 58.6–.68 36.77N–.04 140.65E–.07 13–5 3.5b **¶17196126**
IDC III 15 11 37 58.9–1.3 36.68N 140.59E 0 3.7,3.4

JMA III 15 11 37 59.1 36.79N 140.56E 6–1 3.2,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.4km az=20.7.
IDC Error ellipse: s-maj=27.8km s-min=23.2km az=123.0.
JMA Event type fe.
(162) South Island
WEL III 15 11 46 55.8–.20 45.03S 167.39E 114–1 4.8L
NEIC III 15 11 46 55.8 45.02S 167.39E 114 4.8 **¶16322650**
WEL Event type fe. Error ellipse: s-maj=2.0km s-min=1.2km az=90.0. Felt from Otago to Southland, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(228) Near east coast of eastern Honshu
ISC III 15 12 09 31.3–2.4 39.38N–.06 142.63E–.08 2–13 3.8b 27 1-73
IDC III 15 12 09 30.8–.85 39.27N 142.63E 0 3.8,3.7 **¶17196135**
ISCJB III 15 12 09 31.4–1.6 39.34N–.06 142.70E–.08 15–10 3.7b,3.7
JMA III 15 12 09 34.4–.10 39.47N 142.53E 9–2 4.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=17.5km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=9.5km az=151.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 15 12 33 10.1–.32 38.96N–.04 142.71E–.05 27 4.8b,4.0s 544 1-154
NIED III 15 12 33 00 39.00N 142.70E 8 4.6W,4.0s **¶602662212**
IDC III 15 12 33 04.8–.47 38.69N 142.66E 0 4.6,4.5
MOS III 15 12 33 08.7–.92 38.99N 142.53E 25 4.9b,4.5
JMA III 15 12 33 08.4–.30 39.01N 142.66E 19–3 4.8,4.5
ISCJB III 15 12 33 09.0–.14 38.98N–.03 142.60E–.02 27 4.7b,4.1s
NEIC III 15 12 33 11.2–1.3 38.98N 142.60E 30–9 4.9b,4.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ47.00000°,λ-67.00000°. NP2:ϕ_s268.00000°,δ48.00000°,λ-113.00000°. $M_0$9.31000×10^{15}
IDC Error ellipse: s-maj=12.8km s-min=11.0km az=139.0.
MOS Error ellipse: s-maj=7.5km s-min=5.1km az=105.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=167.3.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=136.0.
(228) Near east coast of eastern Honshu
ISC III 15 12 53 51.1–.73 39.16N–.06 142.32E–.07 27 4.0b 32 1-88
IDC III 15 12 53 46.7–.74 39.09N 142.40E 0 4.1,3.9 **¶16478237**
ISCJB III 15 12 53 49.0–.48 39.08N–.04 142.36E–.06 27 3.9b,3.9
JMA III 15 12 53 50.9–.20 39.30N 142.40E 20–2 4.2,3.9
NEIC III 15 12 53 51.9–.45 39.10N 142.28E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.7km s-min=16.9km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=6.2km az=27.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.1km az=129.0.
(228) Near east coast of eastern Honshu
ISC III 15 13 10 48.2–.59 36.65N–.04 140.90E–.06 53–5 4.3b 73 0-147
NIED III 15 13 10 00 36.60N 141.00E 56 4.1W **¶16318257**
ISCJB III 15 13 10 46.6–.51 36.65N–.03 140.96E–.05 56–3 4.9s,4.2b
JMA III 15 13 10 47.1–.10 36.63N 140.95E 49–1 4.2,4.2b
NEIC III 15 13 10 48.9–.70 36.67N 140.87E 61–6 4.5b,4.2b
IDC III 15 13 10 48.8–.62 36.64N 140.94E 61–5 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ23.00000°,λ95.00000°. NP2:ϕ_s18.00000°,δ67.00000°,λ88.00000°. $M_0$1.71000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=22.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.6km az=108.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=9.2km s-min=7.6km az=131.0.
(228) Near east coast of eastern Honshu
ISC III 15 13 22 26.6–1.7 35.8N–.10 140.9E–.10 28–7 10 0-59
IDC III 15 13 22 12.1–1.1 37.03N 142.24E 0 3.7,3.5b **¶602661928**
JMA III 15 13 22 27.4–.20 35.70N 140.83E 27–1 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=22.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 15 13 27 56.7–.54 37.59N–.03 142.34E–.03 31–3 5.8s,5.7b 1485 1-160
NIED III 15 13 27 00 37.60N 142.30E 41 6.0W,5.7b **¶602443560**
IDC III 15 13 27 52.3–.34 37.58N 142.31E 0 5.7,5.7s
JMA III 15 13 27 53.6–.30 37.60N 142.30E 10–4 6.2,5.7s
ISCJB III 15 13 27 54.6–.07 37.59N–.02 142.32E–.01 23 5.8s,5.6b
BJI III 15 13 27 54.3 37.47N 142.17E 29 6.1s,6.0
MOS III 15 13 27 55.9–1.1 37.63N 142.28E 33 5.8b,5.8s
NEIC III 15 13 27 56.0–.00 37.37N 142.23E 25 5.8b,5.8s
NEIC III 15 13 27 56.6–.11 37.58N 142.24E 28 6.0W,5.9W
GCMT III 15 13 27 56.6–.10 37.67N 142.13E 28–0 6.1W,5.9W
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ25.00000°,λ168.00000°. NP2:ϕ_s313.00000°,δ85.00000°,λ66.00000°. $M_0$1.12000×10^{18}
IDC Error ellipse: s-maj=11.5km s-min=8.4km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.5km az=156.1.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=101.1.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{18}Nm; M_{rr}0.17 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-0.26 $M_{r\theta}$-0.90 $M_{\theta\phi}$0.01 $M_{\phi r}$1.01 Best double couple: NP1:ϕ_s319.00000°,δ87.00000°,λ83.00000°. NP2:ϕ_s205.00000°,δ8.00000°,λ156.00000°. Principal axes: T 1.4000,Plg47.0000°,Azm221.0000°; N -0.0500,Plg7.0000°,Azm319.0000°; P -1.3400,Plg41.0000°,Azm55.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.4km az=141.0. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 1 second later. Depth based on larger event. Energy computed from CMT mechanism. Moment Tensor Solution. s86 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57 $M_{\theta\theta}$0.82 $M_{\phi\phi}$-1.39 $M_{r\theta}$-6.99 $M_{\theta\phi}$2.62 $M_{\phi r}$5.88 Best double couple: NP1:ϕ_s194.00000°,δ11.00000°,λ156.00000°. NP2:ϕ_s307.00000°,δ85.00000°,λ80.00000°. Principal axes: T 8.4000,Plg49.0000°,Azm206.0000°; N 2.1000,Plg10.0000°,Azm308.0000°; P -10.4000,Plg3.0000°,Azm4.0000° $M_0$9.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s310.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm220.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm40.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c255; s134,c297;Duration: 2s7 Moment tensor: Scale 10^{18}Nm; M_{rr}0.20±.01 $M_{\theta\theta}$0.35±.01; $M_{\phi\phi}$-0.54±.01; $M_{r\theta}$-1.26±.03; $M_{\theta\phi}$0.19±.01; $M_{\phi r}$0.96±.03; Best double couple: NP1: ϕ_s309.00000°,δ87.00000°,λ73.00000°. NP2:ϕ_s207.00000°,δ17.00000°,λ168.00000°. Principal axes: T 1.6740,Plg46.0000°,Azm202.0000°; N -0.0150,Plg17.0000°,Azm310.0000°; P -1.6590,Plg39.0000°,Azm54.0000° $M_0$1.66700×10^{18}
(227) Eastern Honshu
ISC III 15 13 31 47.5–.42 35.31N–.02 138.72E–.03 15–2 6.1b,6.0s 1658 0-164
NIED III 15 13 31 00 35.30N 138.70E 8 5.9W,6.0s **¶16318259**
ISCJB III 15 13 31 45.3–.52 35.25N–.02 138.65E–.02 10–3 6.0b,6.0s
BJI III 15 13 31 45.6 35.35N 138.70E 10 6.4s,6.1
IDC III 15 13 31 45.2–.28 35.23N 138.50E 0 5.8,5.8L
NEIC III 15 13 31 46.0–.00 35.50N 139.00E 35 5.8,5.8L
NEIC III 15 13 31 46.3–.09 35.27N 138.58E 9 6.2b,6.0
JMA III 15 13 31 46.3 35.31N 138.71E 14–1 6.4,6.0
GCMT III 15 13 31 46.3–.10 35.27N 138.58E 19–0 6.0W,6.0
MOS III 15 13 31 48.4–1.1 35.30N 138.61E 31 6.3b,6.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ69.00000°,λ22.00000°. NP2:ϕ_s293.00000°,δ70.00000°,λ157.00000°. $M_0$8.38000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=169.7.
IDC Error ellipse: s-maj=9.9km s-min=7.8km az=80.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ78.00000°,λ52.00000°. NP2:ϕ_s296.00000°,δ39.00000°,λ161.00000°. Principal axes: T 0.9800,Plg43.0000°,Azm273.0000°; N 0.1600,Plg36.0000°,Azm49.0000°; P -1.1400,Plg23.0000°,Azm158.0000°

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=136.0. Felt [V] at Sagamihara and Yokohama; [IV] at Atsugi, Ayase, Tokyo, Yamato, Yokosuka, Zama and Zushi; [III] at Nagoya and Osaka. Felt in many parts of central Honshu. Recorded [6U JMA] in Shizuoka. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s38 Moment tensor: Scale 10^{17}Nm; M_{rr}3.93 $M_{\theta\theta}$-7.43 $M_{\phi\phi}$3.50 $M_{r\theta}$2.76 $M_{\theta\phi}$0.01 $M_{\phi r}$2.88 Best double couple: NP1:ϕ_s305.00000°,δ46.00000°,λ149.00000°. NP2:ϕ_s58.00000°,δ68.00000°,λ49.00000°. Principal axes: T 6.9000,Plg49.0000°,Azm283.0000°; N 1.2000,Plg38.0000°,Azm76.0000°; P -8.1000,Plg14.0000°,Azm177.0000° $M_0$7.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s210.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s30.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm300.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm120.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s291.00000°,δ64.00000°,λ149.00000°. NP2:ϕ_s36.00000°,δ63.00000°,λ29.00000°. Principal axes: T Plg39.0000°,Azm253.0000°; N Plg51.0000°,Azm75.0000°; P Plg1.0000°,Azm344.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s95,c186; s137,c386;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.38±.01 $M_{\theta\theta}$-1.03±.01; $M_{\phi\phi}$0.65±.01; $M_{r\theta}$0.04±.03; $M_{\theta\phi}$-0.66±.01; $M_{\phi r}$0.20±.03; Best double couple: NP1:ϕ_s28.00000°,δ80.00000°,λ16.00000°. NP2:ϕ_s295.00000°,δ75.00000°,λ170.00000°. Principal axes: T 0.9370,Plg18.0000°,Azm252.0000°; N 0.3310,Plg72.0000°,Azm59.0000°; P -1.2650,Plg4.0000°,Azm161.0000° $M_0$1.10100×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.5km az=104.3.
(227) Eastern Honshu
JMA III 15 13 34 09.0 35.33N 138.72E 13–1 3.7
¶602661897
JMA Event type fe.
(227) Eastern Honshu
ISC III 15 13 35 21.9–1.4 35.40N–.07 138.73E–.08 13–12 10 0-55
IDC III 15 13 35 20.2–1.2 35.33N 138.72E 0 4.6,4.4 **¶602661887**
ISCJB III 15 13 35 21.6–.90 35.32N–.07 138.7E–.10 20–8 4.2b,4.4
JMA III 15 13 35 22.1 35.34N 138.73E 11–1 4.1,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=13.3km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=9.3km az=146.5.
JMA Event type fe.
(227) Eastern Honshu
JMA III 15 13 37 02.8 35.30N 138.71E 16–1 3.8
¶602661883
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 15 13 37 56.4–.59 37.61N–.04 142.06E–.04 43–4 5.1b 701 1-155
BJI III 15 13 37 51.4 37.56N 142.31E 38 5.7b,5.5s **¶602661878**
JMA III 15 13 37 54.9–.20 37.62N 142.00E 30–5 5.3,5.5s
ISCJB III 15 13 37 55.3–.50 37.64N–.03 141.95E–.03 43–4 5.5s,5.0b
MOS III 15 13 37 55.2–.84 37.83N 141.95E 36 5.3b,5.0b
IDC III 15 13 37 56.7–.61 37.67N 142.02E 43–4 4.9,4.8
NEIC III 15 13 37 57.1–.43 37.67N 141.94E 45–4 5.1b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=162.1.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=96.6.
IDC Error ellipse: s-maj=10.6km s-min=9.2km az=147.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=145.0. Recorded [3 JMA] in Fukushima and Miyagi.
(227) Eastern Honshu
JMA III 15 13 40 03.4 35.33N 138.72E 12–1 3.7
¶602661871
JMA Event type fe.
(227) Eastern Honshu
ISC III 15 13 40 09.2–1.0 35.36N–.03 138.78E–.04 9–8 4.2b 20 0-80
IDC III 15 13 40 08.1–1.1 35.33N 138.70E 0 4.4,4.1 **¶600547782**
ISCJB III 15 13 40 08.9–.58 35.35N–.03 138.74E–.04 13–4 4.1b,4.1
JMA III 15 13 40 09.5 35.35N 138.73E 10–1 4.2,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=14.1km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=153.1.
JMA Event type fe.
(227) Eastern Honshu
ISC III 15 13 43 10.9–1.0 35.34N–.03 138.76E–.04 9–7 3.9b 23 0-93
IDC III 15 13 43 09.6–.97 35.31N 138.65E 0 4.1,3.9 **¶602661857**
ISCJB III 15 13 43 10.7–.57 35.34N–.03 138.74E–.04 13–4 3.8b,3.9
JMA III 15 13 43 11.2 35.34N 138.73E 11–1 3.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=12.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=151.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s173.00000°,δ51.00000°,λ-57.00000°. NP2:ϕ_s307.00000°,δ49.00000°,λ-124.00000°. Principal axes: T Plg1.0000°,Azm240.0000°; N Plg25.0000°,Azm330.0000°; P Plg65.0000°,Azm148.0000°
(229) Off east coast of Honshu
ISC III 15 13 47 08.2–.63 37.37N–.08 142.23E–.08 24 4.4b 68 1-83
JMA III 15 13 47 04.2–.40 37.50N 142.31E 0 4.9 **¶602661845**
IDC III 15 13 47 04.7–.69 37.35N 142.25E 0 4.3,4.2b
ISCJB III 15 13 47 05.9–.40 37.37N–.04 142.29E–.06 24 4.4b,4.2b
MOS III 15 13 47 07.2–1.2 37.41N 142.24E 33 5.3b,4.2b
NEIC III 15 13 47 09.9–.38 37.35N 142.15E 35 5.0b,4.2b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=14.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.2km az=37.6.
MOS Error ellipse: s-maj=12.6km s-min=7.1km az=85.4.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=129.0.
(162) South Island
WEL III 15 13 50 12.0–.11 43.53S 172.75E 5–0 3.3L
¶600679890
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL III 15 13 57 59.0–.07 43.61S 172.49E 7–0 3.8L
¶16322653
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(227) Eastern Honshu
ISC III 15 14 15 15.5–.86 37.15N–.09 141.50E–.08 35 3.8b 20 1-147
IDC III 15 14 15 25.4–5.1 38.34N 141.83E 68–47 3.7,3.7 **¶17196163**
JMA III 15 14 15 25.3 37.06N 140.74E 9–1 3.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=17.5km az=115.0.
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 15 14 24 12.9–.67 37.54N–.06 142.03E–.07 24 4.5s,3.9b 40 1-146
IDC III 15 14 24 09.4–.71 37.54N 142.09E 0 4.6,4.5s **¶602661683**
ISCJB III 15 14 24 11.1–.44 37.50N–.04 142.12E–.05 24 4.5s,3.9b
JMA III 15 14 24 12.3–.20 37.49N 142.07E 26–4 4.1,3.9b
NEIC III 15 14 24 14.4–.35 37.54N 142.06E 35 4.0b,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=15.9km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.3km az=39.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=123.0.
(228) Near east coast of eastern Honshu
ISC III 15 14 40 37.6–1.3 39.56N–.05 142.69E–.05 32–8 4.6b 97 1-149
JMA III 15 14 40 33.9–.40 39.60N 142.76E 9 4.5 **¶602661624**
IDC III 15 14 40 37.5–3.6 39.54N 142.69E 33–27 4.4,4.3
ISCJB III 15 14 40 37.0–.80 39.60N–.05 142.66E–.06 38–6 4.4b,4.3
NEIC III 15 14 40 38.9–.66 39.62N 142.63E 39–6 4.6b,4.3
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=12.3km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=6.0km az=139.4.

NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.0km az=136.0.
(229) Off east coast of Honshu
ISC III 15 14 51 22.5–.43 37.09N–.05 142.16E–.05 19 4.7b 153 1-146
JMA III 15 14 51 18.1–.50 37.12N 142.34E 0 4.5 ¶600548111
IDC III 15 14 51 19.6–.51 37.09N 142.27E 0 4.6,4.5
ISCJB III 15 14 51 21.0–.24 37.08N–.04 142.17E–.04 19 4.6b,4.5
NEIC III 15 14 51 22.3–1.9 37.14N 142.17E 16–12 4.7b,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=11.8km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=154.9.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=144.0.
(228) Near east coast of eastern Honshu
JMA III 15 14 55 58.5 36.48N 140.90E 17–1 3.6
¶602661574
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 15 15 03 53.6–.49 37.23N–.05 142.08E–.06 19 4.2b 62 1-146
NEIC III 15 15 03 51.1–3.4 37.23N 142.11E 3–22 4.6b ¶16327700
IDC III 15 15 03 51.3–.65 37.35N 142.06E 0 5.3,5.3s
ISCJB III 15 15 03 52.4–.40 37.31N–.05 142.08E–.04 19 5.4s,4.1b
JMA III 15 15 03 55.6–.20 37.34N 141.93E 24 4.4,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.6km az=103.0.
IDC Error ellipse: s-maj=16.8km s-min=13.8km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.3km az=157.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 15 15 06 47.2–1.3 36.57N–.05 141.16E–.05 20–5 3.8b 60 0-147
NIED III 15 15 06 00 36.60N 141.20E 8 4.2W ¶16424527
IDC III 15 15 06 44.2–.58 36.55N 141.12E 0 4.0,3.9
ISCJB III 15 15 06 46.4–.91 36.55N–.04 141.18E–.05 27–5 3.7b,3.9
JMA III 15 15 06 47.0–.10 36.62N 141.16E 35–1 4.3,3.9
NEIC III 15 15 06 48.2–.76 36.59N 141.12E 25–5 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ41.00000°,λ-88.00000°. NP2:ϕ_s199.00000°,δ50.00000°,λ-92.00000°. $M_0$2.20000×10^{15}
IDC Error ellipse: s-maj=17.0km s-min=14.6km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.7km az=31.1.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=143.0.
(229) Off east coast of Honshu
ISC III 15 15 23 54.6–.41 40.35N–.03 143.38E–.03 23–2 5.9s,5.7b 1664 1-154
NIED III 15 15 23 00 40.40N 143.50E 20 6.1W,5.7b ¶17196173
IDC III 15 15 23 50.8–.43 40.35N 143.42E 0 6.0,6.0s
ISCJB III 15 15 23 51.2–.64 40.39N–.02 143.29E–.02 6–4 6.0s,5.6b
JMA III 15 15 23 52.3–.30 40.37N 143.47E 18–4 6.3,5.6b
NEIC III 15 15 23 53.9–.10 40.34N 143.29E 18 6.1W,6.1W
BJI III 15 15 23 53.4 40.50N 143.15E 33 6.4b,6.3s
NEIC III 15 15 23 53.0–.00 40.40N 143.59E 15 6.4b,6.3s
GCMT III 15 15 23 54.1–.10 40.36N 143.50E 23–0 6.0W,6.3s
MOS III 15 15 23 54.3–.92 40.49N 143.33E 26 6.0s,5.9b
NEIC III 15 15 24 10.8–.00 40.11N 143.69E 30 6.0s,5.9b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ23.00000°,λ45.00000°. NP2:ϕ_s33.00000°,δ74.00000°,λ107.00000°. $M_0$1.35000×10^{18}
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=156.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=146.0. Felt [II] at Misawa. Recorded [3 JMA] in Aomori and Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ20.00000°,λ51.00000°. NP2:ϕ_s19.00000°,δ75.00000°,λ103.00000°. Principal axes: T 1.2800,Plg58.0000°,Azm307.0000° ; N -0.0200,Plg12.0000°,Azm196.0000°; P -1.2600,Plg29.0000°,Azm99.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ7.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ83.00000°,λ90.00000°. Principal axes: T Plg52.0000° ,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg38.0000°,Azm110.0000°
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}0.50 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-0.50 $M_{r\theta}$0.90 $M_{\theta\phi}$-0.10 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s26.00000° ,δ82.00000°,λ94.00000°. NP2:ϕ_s175.00000°,δ8.00000°,λ59.00000°. Principal axes: T 1.9000,Plg52.0000°,Azm301.0000°; N 0.0000,Plg4.0000°,Azm206.0000° ; P -1.9000,Plg37.0000°,Azm112.0000° $M_0$2.00000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c252; s137,c421;Duration: 2^{s}5 Moment tensor: Scale 10^{18}Nm; M_{rr}0.77±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.44±.01; $M_{\theta\phi}$-0.16±.01; $M_{\phi r}$0.95±.02; Best double couple: NP1:ϕ_s22.00000° ,δ72.00000°,λ96.00000°. NP2:ϕ_s183.00000°,δ19.00000°,λ72.00000°. Principal axes: T 1.3110,Plg62.0000°,Azm302.0000°; N -0.0230,Plg6.0000°,Azm200.0000° ; P -1.2870,Plg27.0000°,Azm107.0000° $M_0$1.29900×10^{18}
MOS Error ellipse: s-maj=5.5km s-min=3.4km az=102.4.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{18}Nm; M_{rr}0.69 $M_{\theta\theta}$0.12 $M_{\phi\phi}$-0.82 $M_{r\theta}$0.32 $M_{\theta\phi}$-0.06 $M_{\phi r}$1.57 Best double couple: NP1:ϕ_s174.00000° ,δ13.00000°,λ74.00000°. NP2:ϕ_s11.00000°,δ77.00000°,λ94.00000°. Principal axes: T 1.7200,Plg57.0000°,Azm286.0000°; N 0.1100,Plg4.0000°,Azm190.0000° ; P -1.8300,Plg32.0000°,Azm98.0000° $M_0$1.80000×10^{18}
(228) Near east coast of eastern Honshu
ISC III 15 15 53 59.0–.84 36.51N–.06 140.81E–.08 32 3.4b 14 0-60
IDC III 15 15 53 55.5–1.1 36.32N 141.06E 0 3.8,3.6 ¶17196177
JMA III 15 15 53 56.8–.10 36.53N 141.05E 23–1 3.9,3.6
ISCJB III 15 15 53 57.5–.76 36.53N–.04 140.98E–.08 32 3.6b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 15 16 03 39.7–1.3 37.26N–.06 141.34E–.09 52–11 4.0b 66 0-82
IDC III 15 16 03 32.6–.83 37.22N 141.18E 0 4.2,4.0 ¶16424532
ISCJB III 15 16 03 38.9–.70 37.23N–.04 141.34E–.07 64–5 4.0b,4.0
NEIC III 15 16 03 38.4–.44 37.36N 141.28E 35 4.4b,4.0
JMA III 15 16 03 40.5–.20 37.30N 141.24E 51–1 3.9,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=17.9km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.0km az=177.4.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.6km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(238) Ryukyu Islands
ISC III 15 16 18 23.8–.68 28.16N–.04 128.84E–.06 71–6 3.9b 59 0-84
ISCJB III 15 16 18 23.3–.28 28.15N–.04 128.89E–.06 83–3 3.9b ¶17196181
IDC III 15 16 18 23.8–1.1 28.13N 128.80E 72–10 4.1,3.9
JMA III 15 16 18 24.6–.10 28.19N 128.80E 63–2 4.1,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=3.6km az=32.5.
IDC Error ellipse: s-maj=16.3km s-min=9.8km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 15 16 22 59.5–1.1 36.74N–.03 140.52E–.05 8–7 4.6b 107 0-152
NIED III 15 16 22 00 36.70N 140.60E 5 4.4W ¶16327702
IDC III 15 16 22 58.2–.60 36.75N 140.50E 0 4.5,4.3
ISCJB III 15 16 22 58.9–.62 36.80N–.03 140.38E–.04 9–4 4.5b,4.3
JMA III 15 16 22 59.3–.20 36.74N 140.59E 0–2 4.5,4.3
NEIC III 15 16 23 04.8–.70 36.89N 140.34E 38–6 4.7b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ36.00000°,λ-113.00000°. NP2:ϕ_s216.00000°,δ57.00000°,λ-74.00000°. $M_0$3.95000×10^{15}
IDC Error ellipse: s-maj=16.2km s-min=10.1km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=36.7.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=157.0.
(228) Near east coast of eastern Honshu
ISC III 15 16 26 01.5–1.4 36.76N–.06 140.61E–.05 4–10 3.7b 25 0-91
IDC III 15 16 26 00.4–.83 36.60N 140.59E 0 3.9,3.6 ¶17196183
ISCJB III 15 16 26 01.3–.68 36.69N–.04 140.67E–.06 12–4 3.5b,3.6
JMA III 15 16 26 02.0 36.73N 140.58E 3–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=13.0km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=27.3.
JMA Event type fe.
(227) Eastern Honshu
ISC III 15 16 28 16.8–.94 36.21N–.04 139.97E–.06 56–7 3.4b 25 0-65
IDC III 15 16 28 06.8–1.3 36.46N 140.63E 0 3.7,3.7L ¶600548242
ISCJB III 15 16 28 16.1–.57 36.20N–.04 139.98E–.07 67–4 3.4b,3.7L
JMA III 15 16 28 17.3–.10 36.20N 139.96E 52–1 3.6,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=23.8km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.8km az=7.9.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 15 16 41 12.3–.52 38.00N–.05 142.05E–.06 30 4.1b 76 1-146
ISCJB III 15 16 41 10.6–.35 38.02N–.03 142.16E–.04 30 4.1b ¶16427609
JMA III 15 16 41 12.8–.20 38.03N 142.01E 37 4.4
NEIC III 15 16 41 14.8–.63 38.07N 142.08E 52–5 4.4b
IDC III 15 16 41 15.0–2.4 38.02N 141.99E 54–22 4.1,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.4km az=43.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=126.0.
IDC Error ellipse: s-maj=16.5km s-min=12.2km az=102.0.
(227) Eastern Honshu
JMA III 15 16 44 24.7 35.35N 138.72E 11–1 2.9
¶603049817
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 15 17 25 05.4–1.0 38.88N–.07 142.0E–.10 51 3.7b 17 1-73
ISCJB III 15 17 25 03.8–.83 38.86N–.05 142.1E–.10 51 3.7b ¶17196201
JMA III 15 17 25 05.6–.10 38.90N 141.92E 52–2 3.6
IDC III 15 17 25 09.1–3.3 38.81N 141.89E 87–29 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.2km az=1.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=22.9km az=101.0.
(228) Near east coast of eastern Honshu
JMA III 15 17 31 26.1–.10 35.98N 141.07E 17–3 3.5
¶602662125
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 15 17 40 54.5–.96 35.60N–.04 141.01E–.05 24–6 4.5b 101 0-148
NIED III 15 17 40 00 35.70N 141.10E 26 4.4W ¶600548371
JMA III 15 17 40 54.7–.20 35.63N 140.99E 26–1 4.0
ISCJB III 15 17 40 54.5–.55 35.59N–.03 141.01E–.05 36–4 4.4b,4.0s
NEIC III 15 17 40 56.5–.75 35.52N 140.92E 40–7 4.6b,4.0s
IDC III 15 17 40 57.8–1.4 35.57N 140.84E 46–14 4.2,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ27.00000°,λ169.00000°. NP2:ϕ_s23.00000°,δ85.00000°,λ64.00000°. $M_0$3.97000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s69.00000°,δ62.00000°,λ97.00000°. NP2: ϕ_s235.00000°,δ29.00000°,λ77.00000°. Principal axes: T Plg72.0000°,Azm355.0000° ; N Plg6.0000°,Azm246.0000°; P Plg17.0000°,Azm154.0000°
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=5.8.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.5km az=90.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=14.9km s-min=9.1km az=91.0.
(228) Near east coast of eastern Honshu
JMA III 15 17 42 40.6–.10 35.61N 140.98E 28–1 3.5
NIED III 15 17 42 00 35.60N 141.00E 14 3.8W ¶600548375
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ26.00000°,λ173.00000°. NP2:ϕ_s19.00000°,δ87.00000°,λ64.00000°. $M_0$6.17000×10^{14}
(228) Near east coast of eastern Honshu
ISC III 15 17 51 56.1–1.8 36.21N–.04 140.98E–.06 12–11 3.8b 31 1-147
IDC III 15 17 51 54.0–.67 36.12N 141.13E 0 4.0,3.8 ¶600548394
JMA III 15 17 51 56.7 36.19N 141.02E 36–1 4.1,3.8
ISCJB III 15 17 51 57.0–.72 36.20N–.03 140.99E–.06 30–5 3.7b,3.8
NEIC III 15 17 51 59.0–.46 36.12N 140.99E 35 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=14.9km az=111.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.6km az=165.1.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.8km az=174.0.
(228) Near east coast of eastern Honshu
JMA III 15 17 56 10.7–.10 36.54N 140.96E 46–1 3.7
¶603049822
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 15 18 14 29.2–2.2 39.27N–.06 142.47E–.08 11–13 3.5b 19 1-63
IDC III 15 18 14 27.3–1.2 39.14N 142.34E 0 3.7,3.5 ¶17196209
ISCJB III 15 18 14 29.6–1.9 39.18N–.05 142.54E–.08 27–12 3.5b,3.5
JMA III 15 18 14 31.5–.30 39.20N 142.40E 28–3 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=25.9km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=8.3km az=3.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 15 18 19 40.8–.83 36.67N–.04 141.05E–.07 42–6 4.4b 94 0-83
NIED III 15 18 19 00 36.70N 141.00E 41 4.2W ¶602661996
ISCJB III 15 18 19 39.7–.58 36.63N–.03 141.09E–.06 53–4 4.2b
JMA III 15 18 19 40.9–.10 36.65N 141.00E 49–1 4.1
NEIC III 15 18 19 42.5–.86 36.57N 140.98E 65–8 4.5b
IDC III 15 18 19 43.3–1.8 36.59N 140.91E 67–16 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ25.00000°,λ33.00000°. NP2:ϕ_s34.00000°,δ77.00000°,λ111.00000°. $M_0$1.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.0km az=12.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.8km az=109.0.
IDC Error ellipse: s-maj=17.8km s-min=10.3km az=87.0.
(229) Off east coast of Honshu
ISC III 15 18 29 11.8–.56 37.73N–.04 143.64E–.04 27–3 5.0b,4.3s 707 2-150
ISCJB III 15 18 29 07.9–.82 37.66N–.03 143.54E–.02 9–5 4.9b,4.3s ¶16318271
IDC III 15 18 29 07.4–.50 37.59N 143.64E 0 4.7,4.7
GCMT III 15 18 29 10.7–.40 37.70N 143.61E 19–1 4.9W,4.7
JMA III 15 18 29 10.7–.40 37.62N 143.48E 45 4.8,4.7
NEIC III 15 18 29 10.7–1.8 37.63N 143.53E 18–11 5.0b,4.7
BJI III 15 18 29 10.3 37.81N 143.75E 38 5.1b,4.7b
MOS III 15 18 29 12.3–.94 37.98N 143.46E 28 5.2b,4.7b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.4km az=174.0.
IDC Error ellipse: s-maj=13.6km s-min=11.5km az=133.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c16; s64,c98; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.61±.24 $M_{\theta\theta}$0.37±.13; $M_{\phi\phi}$2.25±.15; $M_{r\theta}$-0.32±.29; $M_{\theta\phi}$1.16±.07; $M_{\phi r}$-0.43±.26; Best double couple: NP1:ϕ_s28.00000°,δ51.00000° ,λ-87.00000°. NP2:ϕ_s203.00000°,δ40.00000°,λ-94.00000°. Principal axes: T 2.8540,Plg6.0000°,Azm116.0000°; N -0.1810,Plg2.0000°,Azm206.0000° ; P -2.6660,Plg84.0000°,Azm319.0000° $M_0$2.76000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=155.0. Recorded [4 JMA] in Gifu.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=105.8.
(227) Eastern Honshu
JMA III 15 18 33 28.4 35.98N 137.31E 7 4.0
¶602661977
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s326.00000°,δ81.00000°,λ11.00000°. NP2:ϕ_s234.00000°,δ79.00000°,λ171.00000°.

Principal axes: T Plg14.0000°,Azm190.0000°; N Plg76.0000°,Azm6.0000°; P Plg1.0000° ,Azm100.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**15 18 41 25.1–.85**	**37.25N–.07**	**141.78E–.07**	**24**	**4.1b**	**28**	**1-146**
NIED	III	15 18 41 00	37.20N	141.50E	32	4.1W		**¶16478310**
IDC	III	15 18 41 21.5–.97	37.46N	141.85E	0	4.0,3.9		
ISCJB	III	15 18 41 23.2–.70	37.38N–.08	141.87E–.07	24	4.0b,3.9		
NEIC	III	15 18 41 27.5–2.4	37.46N	141.75E	41–19	4.3b,3.9		
JMA	III	15 18 41 30.0–.10	37.18N	141.48E	41–1	4.3,3.9		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S99.00000°,δ18.00000°,λ158.00000°. NP2:ϕ_S211.00000°,δ83.00000°,λ73.00000°. $M_0$1.54000×10^{15}

IDC Error ellipse: s-maj=25.6km s-min=17.5km az=86.0.

ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.3km az=160.1.

NEIC Event type se. Error ellipse: s-maj=23.2km s-min=15.3km az=101.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 19 01 31.6–.50**	**38.16N–.03**	**142.15E–.03**	**18–2**	**5.3b,5.2s**	**1237**	**1-161**
NIED	III	15 19 01 00	38.10N	142.20E	5	5.4W,5.2s		**¶16320497**
BJI	III	15 19 01 24.6	38.10N	142.76E	19	5.5s,5.3b		
JMA	III	15 19 01 29.1–.30	38.10N	142.16E	18–3	5.6,5.3b		
ISCJB	III	15 19 01 29.8–.81	38.13N–.02	142.03E–.02	13–5	5.2b,5.1s		
NEIC	III	15 19 01 30.5–.09	38.13N	141.93E	10	5.3b,5.1s		
GCMT	III	15 19 01 30.5–.10	38.21N	141.97E	12	5.4W,5.1s		
MOS	III	15 19 01 31.7–1.1	38.21N	142.09E	33	5.4b,5.0s		
IDC	III	15 19 01 31.5–1.9	38.14N	141.97E	16–12	5.1,5.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S329.00000°,δ43.00000°,λ-95.00000°. NP2:ϕ_S155.00000°,δ47.00000°,λ-86.00000°. $M_0$1.34000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=161.2.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=139.0. Recorded [3 JMA] in Iwate, Miyagi and Yamagata.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c134; s129,c228; Duration: 1$_S$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.32±.01 $M_{\theta\theta}$0.29±.01; $M_{\phi\phi}$1.04±.01; $M_{r\theta}$0.22±.05; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$0.23±.04; Best double couple: NP1:ϕ_S165.00000°,δ48.00000° ,λ-74.00000°. NP2:ϕ_S321.00000°,δ44.00000°,λ-108.00000°. Principal axes: T 1.3130,Plg2.0000°,Azm243.0000°; N 0.0840,Plg12.0000°,Azm334.0000° ; P -1.3890,Plg78.0000°,Azm143.0000° $M_0$1.35100×10^{17}

MOS Error ellipse: s-maj=6.9km s-min=4.6km az=96.6.

IDC Error ellipse: s-maj=11.2km s-min=9.3km az=68.0.

(229) Off east coast of Honshu

ISC	**III**	**15 19 13 35.1–.38**	**38.47N–.04**	**143.40E–.06**	**15**	**4.8b**	**170**	**2-149**
JMA	III	15 19 13 33.5–.20	38.48N	143.56E	43	4.9		**¶16320498**
IDC	III	15 19 13 33.3–.51	38.47N	143.36E	0	4.6,4.6		
NEIC	III	15 19 13 34.9–.22	38.51N	143.27E	10	4.9b,4.6		
ISCJB	III	15 19 13 34.2–.21	38.49N–.03	143.32E–.04	15	4.7b,4.6s		

ISC Event type se.

JMA Event type fe.

NEIC Event type se.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 19 46 16.2–.54**	**36.73N–.07**	**142.17E–.05**	**19**	**4.0b**	**47**	**1-146**
NIED	III	15 19 46 00	36.40N	141.70E	23	4.0W		**¶600548593**
ISCJB	III	15 19 46 14.5–.44	36.79N–.05	142.25E–.05	19	4.0b		
NEIC	III	15 19 46 16.4–.68	36.97N	142.27E	16–3	4.6b		
IDC	III	15 19 46 17.5–.67	36.94N	142.25E	23–4	3.9,3.9		
JMA	III	15 19 46 22.1–.20	36.44N	141.73E	64–4	4.1,3.9		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S250.00000°,δ34.00000°,λ-24.00000°. NP2:ϕ_S0.00000°,δ77.00000°,λ-122.00000°. $M_0$9.74000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.5km az=155.9.

NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.3km az=150.0.

IDC Error ellipse: s-maj=16.8km s-min=13.1km az=101.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 19 50 05.9–.92**	**37.28N–.06**	**141.69E–.07**	**29–4**	**4.2b**	**33**	**1-74**
NIED	III	15 19 50 00	37.30N	141.60E	44	4.1W		**¶600548604**
IDC	III	15 19 50 06.9–1.1	37.23N	141.83E	44–8	4.1,3.9b		
NEIC	III	15 19 50 07.5–1.6	37.46N	141.67E	35	4.4b,3.9b		
JMA	III	15 19 50 08.0–.20	37.26N	141.57E	45–2	4.0,3.9b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S282.00000°,δ37.00000°,λ136.00000°. NP2:ϕ_S49.00000°,δ65.00000°,λ61.00000°. $M_0$1.77000×10^{15}

IDC Error ellipse: s-maj=19.4km s-min=11.4km az=128.0.

NEIC Event type se. Error ellipse: s-maj=34.8km s-min=12.1km az=143.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**15 19 53 19.0–.79**	**37.62N–.04**	**142.31E–.05**	**29–5**	**4.8b**	**301**	**1-146**
NIED	III	15 19 53 00	37.70N	142.10E	35	4.8W		**¶602661107**
IDC	III	15 19 53 15.3–.49	37.66N	142.13E	0	4.6,4.6b		
ISCJB	III	15 19 53 16.2–1.2	37.65N–.03	142.26E–.03	15–7	4.7b,3.5s		
MOS	III	15 19 53 17.9–1.1	37.71N	142.31E	33	5.0b,3.5s		
JMA	III	15 19 53 19.6–.30	37.67N	142.08E	25–4	5.1,3.5s		
NEIC	III	15 19 53 20.5–1.4	37.72N	142.14E	33–10	4.9b,3.5s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S160.00000°,δ79.00000°,λ1.00000°. NP2:ϕ_S70.00000°,δ89.00000°,λ169.00000°. $M_0$1.51000×10^{16}

IDC Error ellipse: s-maj=13.1km s-min=11.6km az=109.0.

ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=143.4.

MOS Error ellipse: s-maj=7.2km s-min=4.8km az=100.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=128.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 20 03 50.0–.72**	**38.39N–.05**	**142.30E–.06**	**26–4**	**4.4b**	**87**	**1-145**
NIED	III	15 20 03 00	38.40N	142.30E	32	4.2W		**¶16461770**
ISCJB	III	15 20 03 48.7–1.8	38.36N–.04	142.32E–.05	28–12	4.3b		
JMA	III	15 20 03 49.1–.20	38.44N	142.28E	23–2	4.5		
IDC	III	15 20 03 50.3–.76	38.37N	142.23E	27–4	4.2,4.2		
NEIC	III	15 20 03 51.4–.30	38.39N	142.29E	35	4.7b,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S248.00000°,δ55.00000°,λ-28.00000°. NP2:ϕ_S355.00000°,δ68.00000°,λ-141.00000°. $M_0$2.12000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.9km az=16.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=15.0km s-min=12.3km az=88.0.

NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.5km az=145.0.

(229) Off east coast of Honshu

ISC	**III**	**15 20 14 33.8–.34**	**37.75N–.03**	**143.46E–.03**	**24–2**	**5.1b,4.8s**	**896**	**2-160**
NIED	III	15 20 14 00	37.80N	143.50E	11	4.9W,4.8s		**¶16320502**
MOS	III	15 20 14 31.1–.91	37.74N	143.44E	17	5.3b,4.8s		
JMA	III	15 20 14 32.4–.40	37.76N	143.46E	43	5.1,4.8s		
BJI	III	15 20 14 32.2	37.85N	143.02E	10	5.2b,5.1b		
NEIC	III	15 20 14 33.5–1.2	37.69N	143.45E	22–8	5.1b,5.1b		
GCMT	III	15 20 14 33.5–.30	37.91N	143.50E	12–1	5.0W,5.1b		
ISCJB	III	15 20 14 33.8–.10	37.71N–.02	143.42E–.02	35	5.0b,4.9s		
IDC	III	15 20 14 35.5–.46	37.72N	143.49E	36–3	4.9,4.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S19.00000°,δ23.00000°,λ-94.00000°. NP2:ϕ_S203.00000°,δ67.00000°,λ-88.00000°. $M_0$2.98000×10^{16}

MOS Error ellipse: s-maj=6.2km s-min=4.4km az=106.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=135.0.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c29; s82,c130; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.28±.21 $M_{\theta\theta}$0.85±.12; $M_{\phi\phi}$2.42±.14; $M_{r\theta}$1.71±.40; $M_{\theta\phi}$0.94±.07; $M_{\phi r}$1.52±.36; Best double couple: NP1:ϕ_S218.00000°,δ63.00000° ,λ-80.00000°. NP2:ϕ_S17.00000°,δ28.00000°,λ-109.00000°. Principal axes: T 3.5370,Plg18.0000°,Azm300.0000°; N 0.5520,Plg9.0000°,Azm33.0000° ; P -4.0960,Plg70.0000°,Azm149.0000° $M_0$3.81600×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=161.3.

IDC Error ellipse: s-maj=10.3km s-min=8.7km az=101.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**15 20 16 23.2–.20**	**37.32N**	**141.79E**	**32–4**	**4.2**		
								¶602661060

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 20 29 59.6–.41**	**35.24N–.03**	**141.17E–.03**	**20–1**	**5.7b,5.5s**	**1463**	**1-162**
BJI	III	15 20 29 56.7	35.29N	141.20E	25	5.8,5.8s		**¶602661014**
ISCJB	III	15 20 29 57.8–.60	35.18N–.02	141.07E–.02	15–4	5.6b,5.5s		
MOS	III	15 20 29 58.4–.97	35.18N	141.14E	26	5.8b,5.6s		
NEIC	III	15 20 29 59.8–.60	35.21N	140.99E	19–3	5.7W,5.6W		
GCMT	III	15 20 29 59.8–.10	35.17N	141.16E	22–0	5.6W,5.6W		
NEIC	III	15 20 30 00.0–.00	35.05N	140.79E	15	5.6W,5.6W		
JMA	III	15 20 30 00.2–.10	35.28N	141.22E	24–3	5.8,5.6W		
NIED	III	15 20 30 00	35.30N	141.20E	23	5.6W,5.6W		
IDC	III	15 20 30 03.0–1.2	35.21N	141.06E	42–10	5.5,5.5s		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=150.2.

MOS Error ellipse: s-maj=8.1km s-min=5.4km az=118.4.

NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=134.0. Recorded [3 JMA] in Chiba. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-2.60 $M_{\phi\phi}$1.54 $M_{r\theta}$2.15 $M_{\theta\phi}$0.44 $M_{\phi r}$1.84 Best double couple: NP1:ϕ_S313.00000°,δ36.00000° ,λ162.00000°. NP2:ϕ_S58.00000°,δ80.00000°,λ55.00000°. Principal axes: T 3.6800,Plg44.0000°,Azm293.0000°; N -0.0600,Plg34.0000°,Azm65.0000° ; P -3.6300,Plg26.0000°,Azm175.0000° $M_0$3.60000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s99,c176; s125,c263;Duration: 1$_S$6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.87±.05 $M_{\theta\theta}$-2.86±.04; $M_{\phi\phi}$0.99±.03; $M_{r\theta}$1.79±.07; $M_{\theta\phi}$0.13±.02; $M_{\phi r}$1.16±.07; Best double couple: NP1:ϕ_S66.00000° ,δ69.00000°,λ62.00000°. NP2:ϕ_S302.00000°,δ34.00000°,λ140.00000°. Principal axes: T 3.0930,Plg57.0000°,Azm299.0000°; N 0.3850,Plg26.0000°,Azm77.0000° ; P -3.4750,Plg19.0000°,Azm176.0000° $M_0$3.28400×10^{17}

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80 $M_{\theta\theta}$-2.40 $M_{\phi\phi}$1.70 $M_{r\theta}$3.10 $M_{\theta\phi}$0.50 $M_{\phi r}$3.80 Best double couple: NP1:ϕ_S46.00000°,δ87.00000° ,λ66.00000°. NP2:ϕ_S310.00000°,δ23.00000°,λ172.00000°. Principal axes: T 5.8000,Plg43.0000°,Azm294.0000°; N -1.0000,Plg23.0000°,Azm48.0000° ; P -4.8000,Plg37.0000°,Azm157.0000° $M_0$5.00000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S318.00000°,δ35.00000°,λ-174.00000°. NP2:ϕ_S222.00000°,δ86.00000°,λ-55.00000°. $M_0$3.16000×10^{17}

IDC Error ellipse: s-maj=11.2km s-min=6.3km az=97.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 20 44 44.8–.57**	**38.89N–.06**	**142.44E–.06**	**27**	**4.3b**	**53**	**1-88**
NEIC	III	15 20 44 40.9–3.4	38.79N	142.42E	4–21	4.7b		**¶602660981**
ISCJB	III	15 20 44 42.5–.46	38.81N–.05	142.48E–.06	27	4.2b		
IDC	III	15 20 44 45.9–.75	38.91N	142.38E	34–6	4.1,4.0		
JMA	III	15 20 44 45.6–.10	39.04N	142.47E	24–2	4.3,4.0		

ISC Event type ke.

NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.2km az=122.0.

ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.6km az=35.7.

IDC Error ellipse: s-maj=16.2km s-min=14.0km az=93.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 20 53 42.5–.87**	**36.95N–.04**	**140.71E–.05**	**29–6**	**4.4b**	**38**	**0-69**
IDC	III	15 20 53 38.0–.95	36.92N	140.83E	0	4.0,3.8		**¶16322657**
ISCJB	III	15 20 53 41.5–.65	36.93N–.04	140.88E–.06	39–4	3.8b,3.8		
JMA	III	15 20 53 42.8	36.93N	140.72E	28–1	4.2,3.8		
NEIC	III	15 20 53 43.0–.81	36.83N	140.80E	35	4.4b,3.8		

ISC Event type se.

IDC Error ellipse: s-maj=22.7km s-min=18.0km az=105.0.

ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.1km az=8.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S318.00000°,δ87.00000°,λ122.00000°. NP2:ϕ_S52.00000°,δ32.00000°,λ5.00000°. Principal axes: T Plg39.0000°,Azm257.0000°; N Plg32.0000°,Azm136.0000°; P Plg34.0000° ,Azm21.0000°

NEIC Event type fe. Error ellipse: s-maj=16.4km s-min=12.2km az=129.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 21 04 49.6–.67**	**36.75N–.03**	**140.55E–.03**	**20–2**	**5.0b,4.5s**	**601**	**0-153**
NIED	III	15 21 04 00	36.70N	140.60E	5	4.6W,4.5s		**¶16320504**
BJI	III	15 21 04 47.2	36.57N	140.49E	20	5.4b,4.7s		
JMA	III	15 21 04 47.6	36.73N	140.57E	0	4.8,4.7s		
ISCJB	III	15 21 04 48.3–.48	36.74N–.02	140.46E–.02	18–3	4.8b,4.5s		
IDC	III	15 21 04 51.9–3.9	36.76N	140.40E	33–29	4.4,4.4		
MOS	III	15 21 04 52.4–.84	37.12N	140.31E	33	5.1b,4.4		
NEIC	III	15 21 04 54.3–.62	36.74N	140.29E	50–6	5.0b,4.4		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S6.00000°,δ29.00000°,λ-96.00000°. NP2:ϕ_S193.00000°,δ61.00000°,λ-86.00000°. $M_0$9.06000×10^{15}

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S25.00000°,δ52.00000°,λ-68.00000°. NP2:ϕ_S172.00000°,δ43.00000°,λ-116.00000°. Principal axes: T Plg5.0000°,Azm100.0000°; N Plg17.0000°,Azm192.0000°; P Plg72.0000° ,Azm354.0000°

ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=151.4.

IDC Error ellipse: s-maj=13.4km s-min=11.5km az=106.0.

MOS Error ellipse: s-maj=6.9km s-min=4.8km az=95.3.

NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=142.0. Recorded [3 JMA] in Ibaraki.

(226) Near west coast of eastern Honshu

ISC	**III**	**15 21 15 30.5–.97**	**37.06N–.03**	**138.61E–.03**	**17–7**	**3.3b**	**29**	**0-57**
IDC	III	15 21 15 26.3–2.0	37.26N	138.84E	0	3.6,3.6L		**¶602660928**
ISCJB	III	15 21 15 30.4–.42	37.09N–.03	138.59E–.04	27–4	3.3b,3.6L		
JMA	III	15 21 15 31.0	37.06N	138.63E	13–2	3.6,3.6L		

ISC Event type ke.

IDC Error ellipse: s-maj=39.8km s-min=17.8km az=92.0.

ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=135.7.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S76.00000°,δ88.00000°,λ-131.00000°. NP2:ϕ_S344.00000°,δ41.00000°,λ-3.00000°. Principal axes: T Plg31.0000°,Azm198.0000°; N Plg40.0000°,Azm77.0000°; P Plg34.0000° ,Azm312.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**15 21 26 28.0–.51**	**37.37N–.05**	**141.86E–.05**	**24**	**4.1b**	**53**	**1-146**
NIED	III	15 21 26 00	37.30N	141.90E	8	4.1W		**¶17196259**
IDC	III	15 21 26 25.0–.62	37.51N	141.86E	0	4.2,4.1		
JMA	III	15 21 26 26.6–.20	37.30N	141.86E	35–4	4.3,4.1		
ISCJB	III	15 21 26 26.3–.41	37.36N–.05	141.92E–.04	24	4.1b,4.1		
NEIC	III	15 21 26 30.4–2.6	37.54N	141.83E	35–18	4.3b,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S237.00000°,δ35.00000°,λ-58.00000°. NP2:ϕ_S20.00000°,δ61.00000°,λ-110.00000°. $M_0$1.39000×10^{15}

IDC Error ellipse: s-maj=16.5km s-min=13.6km az=141.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=159.6.

NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=132.0.

(229) Off east coast of Honshu

ISC	**III**	**15 21 42 10.4–3.0**	**39.64N–.05**	**143.22E–.06**	**28–22**	**4.8b**	**161**	**1-144**
NIED	III	15 21 42 00	39.70N	143.10E	5	4.6W		**¶16327712**
JMA	III	15 21 42 06.8–.40	39.70N	143.14E	1–5	4.6		
ISCJB	III	15 21 42 07.9–1.3	39.58N–.03	143.18E–.03	21–9	4.6b,3.9s		
NEIC	III	15 21 42 11.8–.60	39.59N	143.12E	38–5	4.8b,3.9s		
IDC	III	15 21 42 11.3–2.9	39.58N	143.22E	36–24	4.3,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S214.00000°,δ22.00000°,λ177.00000°. NP2:ϕ_S307.00000°,δ89.00000°,λ68.00000°. $M_0$9.31000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=155.3.

NEIC Event type se. Error ellipse: s-maj=6.2km s-min=3.8km az=138.0.

IDC Error ellipse: s-maj=14.6km s-min=12.2km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**15 22 01 17.7–1.1**	**39.00N–.07**	**142.34E–.09**	**27**	**3.7b**	**15**	**1-59**

IDC III 15 22 01 13.6–1.5 38.89N 142.37E 0 3.9,3.8b ¶17196270
ISCJB III 15 22 01 16.3–.99 39.08N–.07 142.50E–.09 27 3.7b,3.8b
JMA III 15 22 01 18.9–.20 39.12N 142.37E 30–3 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=28.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=9.3km az=153.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(226) Near west coast of eastern Honshu

JMA III 15 22 12 37.5 37.05N 138.71E 7–2 2.3
¶17196275

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(71) Near coast of Guatemala

ISC III 15 22 40 00.2–.60 13.52N–.07 91.12W–.06 29 4.1b,3.5s 107 1-147
IDC III 15 22 39 56.8–.90 13.62N 90.79W 0 4.2,4.1 ¶16478389
NEIC III 15 22 39 57.9–4.8 13.56N 90.93W 10–29 4.5,4.3b
ISCJB III 15 22 40 00.3–.65 13.61N–.07 91.29W–.05 29 4.0b,3.5s
MEX III 15 22 40 06.6–.31 13.64N 91.74W 28–13 4.0,3.5s
CASC III 15 22 40 07.0–.83 13.64N 90.81W 16–6 4.4L,4.3b
ISC Event type fe.
IDC Error ellipse: s-maj=30.8km s-min=13.7km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=19.2km s-min=10.1km az=217.0. Felt [I] at Ahuachapan, El Salvador.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=3.6km az=28.6.
MEX Error ellipse: s-maj=5.8km s-min=14.1km az=-1.0.
CASC Error ellipse: s-maj=5.7km s-min=5.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 15 22 59 50.9–.10 37.38N 141.27E 32–1 3.7
¶602661470

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 15 23 13 44.5–.20 38.16N 142.15E 20–5 4.3
NIED III 15 23 13 00 38.20N 142.10E 41 4.0W ¶600548953
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ48.00000°,λ-163.00000°. NP2:ϕ_s324.00000°,δ78.00000°,λ-43.00000°. $M_0$1.27000×10^{15}

(228) Near east coast of eastern Honshu

ISC III 15 23 20 50.1–1.6 36.64N–.05 141.12E–.08 33–10 3.8b 23 0-69
NIED III 15 23 20 00 36.70N 141.10E 47 3.8W ¶17196288
IDC III 15 23 20 41.5–1.8 36.92N 141.88E 0 4.0L,3.9
ISCJB III 15 23 20 48.4–1.3 36.65N–.05 141.3E–.10 45–10 3.7b,3.9
JMA III 15 23 20 50.1–.10 36.66N 141.12E 45–1 3.7,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ21.00000°,λ41.00000°. NP2:ϕ_s167.00000°,δ76.00000°,λ106.00000°. $M_0$4.99000×10^{14}
IDC Error ellipse: s-maj=46.8km s-min=23.3km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.6km az=174.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 15 23 39 19.8–.92 36.72N–.03 140.57E–.04 10–6 3.7b 28 0-147
NIED III 15 23 39 00 36.70N 140.60E 20 3.9W ¶602443607
IDC III 15 23 39 18.5–.82 36.76N 140.53E 0 4.0,3.8
JMA III 15 23 39 19.9 36.73N 140.59E 5–3 3.7,3.8
ISCJB III 15 23 39 19.1–.66 36.70N–.03 140.66E–.05 16–4 3.6b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ67.00000°,λ-14.00000°. NP2:ϕ_s132.00000°,δ77.00000°,λ-157.00000°. $M_0$8.21000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 15 23 40 10.4–1.2 36.78N–.05 140.57E–.04 7–9 4.0b 29 0-91
NIED III 15 23 40 00 36.70N 140.60E 5 3.8W ¶602443609
IDC III 15 23 40 09.7–.76 36.83N 140.48E 0 4.1,3.9
ISCJB III 15 23 40 10.4–.60 36.71N–.03 140.65E–.05 18–4 3.8b,3.9
JMA III 15 23 40 11.2 36.74N 140.59E 7–2 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ34.00000°,λ-110.00000°. NP2:ϕ_s195.00000°,δ58.00000°,λ-77.00000°. $M_0$6.49000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=16.7km az=167.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=27.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 15 23 58 05.1–.35 35.90N–.04 141.34E–.05 26 4.8b,3.8s 228 0-147
NIED III 15 23 58 00 36.00N 141.40E 32 4.6W,3.8s ¶16320512
IDC III 15 23 58 01.1–.50 35.88N 141.36E 0 4.6,4.5
ISCJB III 15 23 58 03.8–.18 35.88N–.02 141.34E–.03 26 4.7b,3.9s
MOS III 15 23 58 04.6–.99 35.93N 141.34E 33 5.0b,3.9s
JMA III 15 23 58 05.1–.20 35.96N 141.36E 36–2 4.4,3.9s
NEIC III 15 23 58 07.0–.68 35.84N 141.25E 40–6 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ44.00000°,λ-154.00000°. NP2:ϕ_s96.00000°,δ72.00000°,λ-50.00000°. $M_0$7.60000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.6km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.3km az=34.2.
MOS Error ellipse: s-maj=9.6km s-min=6.3km az=103.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.3km az=128.0.

(228) Near east coast of eastern Honshu

ISC III 16 00 22 31.8–.57 36.40N–.04 141.10E–.07 38–2 4.5b 78 0-147
IDC III 16 00 22 26.0–.55 36.38N 141.03E 0 4.5,4.4b ¶602443611
NEIC III 16 00 22 29.6–4.0 36.22N 141.08E 24–29 4.8b,4.4b
JMA III 16 00 22 31.0–.10 36.39N 141.08E 46–1 4.3,4.4b
ISCJB III 16 00 22 31.2–.60 36.38N–.03 141.07E–.06 45–5 4.5b,3.2s
ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA III 16 00 46 22.8–.10 38.35N 141.73E 52–2 3.8
¶602665529

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 16 00 47 08.9–1.2 39.09N–.08 142.37E–.08 27 3.8b 13 1-59
IDC III 16 00 47 04.8–1.3 38.99N 142.31E 0 4.0,3.8 ¶600549138
ISCJB III 16 00 47 06.8–1.0 39.03N–.08 142.51E–.08 27 3.6b,3.8
JMA III 16 00 47 09.4–.30 39.10N 142.38E 28–4 4.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=27.5km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.6km az=23.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 16 01 08 07.7–1.3 36.33N–.03 141.01E–.05 23–9 4.3b 69 0-152
NIED III 16 01 08 00 36.30N 141.00E 26 4.1W ¶602443617
JMA III 16 01 08 07.8–.10 36.29N 140.96E 39–1 4.2
ISCJB III 16 01 08 07.8–.62 36.30N–.03 141.01E–.05 37–5 4.2b,2.6s
NEIC III 16 01 08 08.9–2.5 36.33N 141.00E 32–17 4.5b,2.6s
IDC III 16 01 08 12.8–1.8 36.23N 140.81E 64–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ13.00000°,λ-54.00000°. NP2:ϕ_s221.00000°,δ79.00000°,λ-98.00000°. $M_0$1.69000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=0.4.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=139.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=78.0.

(228) Near east coast of eastern Honshu

ISC III 16 01 25 06.3–1.6 36.40N–.08 140.9E–.10 65–10 3.0b 15 0-56
IDC III 16 01 25 04.2–5.3 35.43N 140.67E 0 3.3,3.3b ¶17196308
JMA III 16 01 25 09.9–.10 36.50N 140.69E 54–1 2.9,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=174.4km s-min=27.9km az=58.0.
JMA Event type fe.

(227) Eastern Honshu

JMA III 16 01 43 56.5 37.17N 140.77E 6–1 2.4
¶603049837

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 16 01 52 51.7–.10 36.89N 141.10E 30–1 3.6
¶602665390

JMA Event type fe.

(229) Off east coast of Honshu

ISC III 16 01 55 08.6–.49 37.55N–.04 143.12E–.04 26–3 4.9b,4.2s 789 2-160
IDC III 16 01 55 04.5–.44 37.49N 143.16E 0 4.8,4.8 ¶16320516
JMA III 16 01 55 06.3–.50 37.46N 142.99E 16 4.9,4.8
BJI III 16 01 55 07.7 37.50N 143.00E 29 5.1b,4.7b
ISCJB III 16 01 55 07.4–.11 37.46N–.03 143.07E–.02 27 4.8b,4.2s
NEIC III 16 01 55 08.2–1.2 37.50N 143.03E 21–8 4.9b,4.2s
MOS III 16 01 55 09.0–.84 37.67N 143.00E 33 5.1b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=10.5km az=120.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=163.3.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=133.0.
MOS Error ellipse: s-maj=7.3km s-min=4.8km az=106.7.

(228) Near east coast of eastern Honshu

JMA III 16 02 06 20.1–.10 36.41N 141.03E 46–1 3.5
¶602665376

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 16 02 13 19.8–.20 38.90N 142.01E 46–3 3.6
¶602665370

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 16 02 15 43.8–.10 37.44N 141.45E 38–2 3.5
¶602665368

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 16 02 47 12.5–.47 37.63N–.04 142.62E–.04 20–6 4.7b,3.8s 233 2-154
NIED III 16 02 47 00 37.70N 142.50E 20 4.5W,3.8s ¶600549336
IDC III 16 02 47 09.4–.46 37.62N 142.54E 0 4.6,4.6
ISCJB III 16 02 47 10.5–1.0 37.62N–.03 142.62E–.03 18–7 4.7b,3.6s
JMA III 16 02 47 10.4–.30 37.66N 142.51E 4 4.7,3.6s
NEIC III 16 02 47 12.8–1.2 37.68N 142.54E 21–8 4.8b,3.6s
MOS III 16 02 47 13.2–.91 37.70N 142.58E 34 4.9b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ45.00000°,λ-51.00000°. NP2:ϕ_s32.00000°,δ57.00000°,λ-122.00000°. $M_0$7.34000×10^{15}
IDC Error ellipse: s-maj=13.6km s-min=12.2km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.0km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=122.0.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=99.1.

(228) Near east coast of eastern Honshu

ISC III 16 02 48 25.3–.75 39.43N–.10 142.53E–.07 29 4.5b 35 1-81
JMA III 16 02 48 25.9–.20 39.55N 142.49E 14–3 4.4 ¶16424543
NEIC III 16 02 48 29.4–.54 39.96N 142.35E 35 4.5b
IDC III 16 02 48 33.2–5.9 39.83N 142.29E 74–35 4.3,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=11.4km az=89.0.
IDC Error ellipse: s-maj=80.9km s-min=28.2km az=161.0.

(228) Near east coast of eastern Honshu

ISC III 16 02 52 24.1–.87 38.65N–.06 142.3E–.10 35 3.7b 25 1-78
ISCJB III 16 02 52 22.4–.70 38.66N–.05 142.53E–.09 35 3.7b ¶17196324
JMA III 16 02 52 25.8–.20 38.68N 142.17E 40–2 4.2
IDC III 16 02 52 28.3–3.4 38.73N 142.18E 73–29 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.6km az=170.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.4km s-min=17.2km az=85.0.

(228) Near east coast of eastern Honshu

ISC III 16 03 23 34.0–1.4 36.97N–.04 141.25E–.06 26–9 4.5b 88 0-147
NIED III 16 03 23 00 36.90N 141.30E 11 4.2W ¶16320520
JMA III 16 03 23 32.4–.10 36.91N 141.34E 31–1 4.7
ISCJB III 16 03 23 34.5–.64 36.96N–.03 141.27E–.05 42–5 4.4b
NEIC III 16 03 23 37.9–.76 36.95N 141.13E 58–7 4.6b
IDC III 16 03 23 38.2–1.8 36.92N 141.16E 60–16 4.3,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ41.00000°,λ-89.00000°. NP2:ϕ_s208.00000°,δ49.00000°,λ-91.00000°. $M_0$2.16000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=20.6.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.4km az=151.0. Recorded [2 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=13.8km s-min=10.5km az=90.0.

(228) Near east coast of eastern Honshu

ISC III 16 03 34 38.1–.63 39.07N–.05 142.31E–.06 24–3 3.9b 33 1-88
JMA III 16 03 34 38.9–.10 39.12N 142.34E 33–2 4.4 ¶17196330
IDC III 16 03 34 39.5–.69 39.04N 142.29E 34–5 3.9,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=14.4km az=113.0.

(228) Near east coast of eastern Honshu

ISC III 16 03 52 04.0–.43 35.83N–.02 140.88E–.02 17–2 6.0b,5.5s 1901 0-162
NIED III 16 03 52 00 35.80N 141.00E 8 5.8W,5.5s ¶16320521
BJI III 16 03 52 01.1 35.75N 140.95E 23 5.9s,5.8b
IDC III 16 03 52 01.4–.27 35.80N 140.83E 0 5.7,5.6
NEIC III 16 03 52 03.0–.08 35.75N 140.71E 10 6.0b,5.8
JMA III 16 03 52 02.7–.10 35.84N 140.91E 10–1 6.1,5.8
ISCJB III 16 03 52 03.2–.37 35.79N–.02 140.79E–.01 18–2 5.9b,5.6s
GCMT III 16 03 52 03.0–.10 35.78N 140.83E 12 5.8W,5.6s
NEIC III 16 03 52 05.0–.00 35.79N 141.20E 25 5.8W,5.6s
MOS III 16 03 52 05.2–.97 35.81N 140.71E 33 6.2b,5.6s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ39.00000°,λ-59.00000°. NP2:ϕ_s152.00000°,δ57.00000°,λ-113.00000°. $M_0$6.44000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.7km az=80.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=136.0. Felt [III] at Tokyo. Also felt at Akishima, Iruma, Oyama, Sagamihara, Saitama, Sayama, Suwa and Yokohama. Recorded [5L JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.51 $M_{\theta\theta}$-1.11 $M_{\phi\phi}$6.62 $M_{r\theta}$-0.40 $M_{\theta\phi}$2.68 $M_{\phi r}$1.06 Best double couple: NP1:ϕ_s28.00000°,δ42.00000°,λ-74.00000°. NP2:ϕ_s187.00000° ,δ50.00000°,λ-104.00000°. Principal axes: T 7.5200,Plg4.0000°,Azm287.0000° ; N -1.8200,Plg10.0000°,Azm196.0000°; P -5.7000,Plg79.0000°,Azm37.0000° $M_0$6.80000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s165.00000°,δ48.00000°,λ-85.00000°. NP2: ϕ_s337.00000°,δ42.00000°,λ-96.00000°. Principal axes: T Plg3.0000°,Azm251.0000° ; N Plg4.0000°,Azm341.0000°; P Plg85.0000°,Azm124.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=169.2.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c226; s135,c430;Duration: 2θ0 Moment tensor: Scale 10^{17} Nm; M_{rr}-5.92±.05 $M_{\theta\theta}$-0.87±.05; $M_{\phi\phi}$6.79±.04; $M_{r\theta}$0.10±.14; $M_{\theta\phi}$-0.41±.04; $M_{\phi r}$2.54±.13; Best double couple: NP1:ϕ_s179.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ_s354.00000° ,δ34.00000°,λ-94.00000°. Principal axes: T 7.2970,Plg11.0000°,Azm267.0000° ; N -0.8840,Plg2.0000°,Azm358.0000°; P -6.4150,Plg79.0000°,Azm100.0000° $M_0$6.85600×10^{17}
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.98 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$3.98 $M_{r\theta}$2.47 $M_{\theta\phi}$-0.32 $M_{\phi r}$1.51 Best double couple: NP1:ϕ_s202.00000° ,δ60.00000°,λ-62.00000°. NP2:ϕ_s335.00000°,δ40.00000°,λ-129.00000°. Principal axes: T 4.2600,Plg10.0000°,Azm272.0000°; N 1.1400,Plg23.0000°,Azm7.0000° ; P -5.4000,Plg63.0000°,Azm159.0000° $M_0$4.90000×10^{17}

MOS Error ellipse: s-maj=6.3km s-min=4.0km az=108.1.
(228) Near east coast of eastern Honshu
JMA III 16 03 56 03.9–.10 35.86N 140.88E 13–1 3.7 ¶602666132
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 16 04 09 55.9–.10 35.84N 140.92E 11–1 3.6 ¶602666101
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 16 04 13 19.9–.10 35.82N 140.89E 10–1 3.6 ¶602666089
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 04 14 30.4–.32**	**37.55N–.03**	**141.57E–.03**	**20–1**	**5.3b,4.9s**	**757**	**1-149**	
NIED	III	16 04 14 00	37.50N	141.60E	14	5.3W,4.9s			**¶602443619**
ISCJB	III	16 04 14 28.6–.97	37.56N–.02	141.51E–.02	12–6	5.3b,5.0s			
BJI	III	16 04 14 29.5	37.50N	141.40E	23	5.7b,5.3s			
JMA	III	16 04 14 29.6–.10	37.53N	141.58E	25–2	5.6,5.3s			
GCMT	III	16 04 14 30.5–.10	37.55N	141.57E	19–0	5.4W,5.3s			
NEIC	III	16 04 14 30.5–.69	37.55N	141.43E	17–4	5.3b,5.3s			
IDC	III	16 04 14 31.5–.44	37.55N	141.50E	25–2	5.0,4.9			
MOS	III	16 04 14 33.7–1.1	38.04N	141.44E	33	5.5b,4.9s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ78.00000°,λ-1.00000°. NP2:ϕ_s348.00000°,δ89.00000°,λ-168.00000°. $M_0$9.41000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=139.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c88; s123,c225; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.03 $M_{\theta\theta}$-0.64±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$0.01±.05; $M_{\theta\phi}$1.19±.02; $M_{\phi r}$-0.21±.05; Best double couple: NP1:ϕ_s165.00000°,δ89.00000°,λ171.00000°. NP2:ϕ_s256.00000°,δ82.00000°,λ1.00000°. Principal axes:
T 1.4010,Plg7.0000°,Azm120.0000°; N -0.0510,Plg81.0000°,Azm337.0000°
; P -1.3500,Plg5.0000°,Azm211.0000° $M_0$1.37600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=136.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=10.3km s-min=8.6km az=96.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=100.3.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 04 17 22.9–1.5**	**35.87N–.04**	**140.92E–.06**	**2–9**	**4.4b**	**33**	**0-148**	
NIED	III	16 04 17 00	35.90N	140.90E	5	4.5W			**¶16427610**
IDC	III	16 04 17 21.7–.98	35.68N	141.05E	0	4.6,4.4			
JMA	III	16 04 17 22.7–.10	35.86N	140.90E	12–2	4.8,4.4			
ISCJB	III	16 04 17 22.4–.86	35.91N–.03	140.95E–.05	5–5	4.3b,4.4			
NEIC	III	16 04 17 26.9–.87	35.75N	140.91E	35	4.5b,4.4			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ50.00000°,λ-144.00000°. NP2:ϕ_s225.00000°,δ63.00000°,λ-46.00000°. $M_0$6.76000×10^{15}
IDC Error ellipse: s-maj=28.1km s-min=21.3km az=7.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.2km az=0.4.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=12.9km az=1.0.
(229) Off east coast of Honshu

ISC	**III**	**16 04 38 50.2–1.9**	**36.60N–.04**	**142.09E–.06**	**5–11**	**4.2b**	**49**	**1-146**	
NIED	III	16 04 38 00	36.70N	142.10E	11	4.3W			**¶600549500**
IDC	III	16 04 38 49.4–.58	36.58N	142.14E	0	4.2,4.2L			
JMA	III	16 04 38 51.7–.30	36.66N	142.12E	33	4.4,4.2L			
NEIC	III	16 04 38 54.7–.41	36.61N	142.17E	35	4.6b,4.2L			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ58.00000°,λ-169.00000°. NP2:ϕ_s200.00000°,δ81.00000°,λ-33.00000°. $M_0$2.82000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=13.2km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.9km az=141.0.
(228) Near east coast of eastern Honshu
JMA III 16 04 55 18.5–.10 37.11N 141.09E 30–1 3.4 ¶603049843
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 05 16 06.5–.94**	**36.16N–.07**	**141.02E–.08**	**31**	**3.8b**	**12**	**0-79**	
IDC	III	16 05 16 02.3–1.2	36.16N	141.10E	0	3.7,3.5b			**¶600549559**
ISCJB	III	16 05 16 05.4–.85	36.21N–.05	141.07E–.07	31	3.6b,3.5b			
JMA	III	16 05 16 06.3–.10	36.21N	141.02E	28–1	3.5,3.5b			

ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=26.7km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=7.0km az=150.4.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 05 20 46.8–1.1**	**35.94N–.07**	**141.0E–.10**	**31**	**3.4b**	**10**	**0-56**	
IDC	III	16 05 20 43.2–1.4	35.94N	141.09E	0	3.5,3.4			**¶602665266**
ISCJB	III	16 05 20 45.4–1.0	35.93N–.06	141.0E–.10	31	3.4b,3.4			
JMA	III	16 05 20 45.9–.10	35.98N	141.02E	15–2	3.4,3.4			

ISC Event type ke.
IDC Error ellipse: s-maj=33.1km s-min=30.5km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.6km az=163.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 05 54 58.0–2.1**	**37.26N–.07**	**141.93E–.07**	**13–13**	**3.6b**	**22**	**1-77**	
ISCJB	III	16 05 54 56.7–1.6	37.39N–.07	142.10E–.07	15–11	3.5b			**¶602664840**
IDC	III	16 05 54 56.3–1.0	37.32N	142.14E	0	3.8,3.6			
JMA	III	16 05 55 01.2–.20	37.34N	141.84E	33–3	4.1,3.6			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=9.0km az=1.4.
IDC Error ellipse: s-maj=26.7km s-min=21.2km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 06 06 15.3–.70**	**37.35N–.05**	**141.98E–.07**	**24**	**3.8b**	**28**	**1-146**	
NIED	III	16 06 06 00	37.40N	141.80E	32	4.0W			**¶17196350**
IDC	III	16 06 06 11.5–.74	37.33N	142.10E	0	4.3L,3.9			
ISCJB	III	16 06 06 13.5–.55	37.31N–.04	142.05E–.05	24	3.6b,3.9			
JMA	III	16 06 06 16.9–.20	37.39N	141.84E	36–3	4.2,3.9			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ65.00000°,λ-14.00000°. NP2:ϕ_s314.00000°,δ77.00000°,λ-154.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=22.0km s-min=16.9km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=149.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 06 29 02.8–.30**	**39.89N–.03**	**142.23E–.03**	**39–2**	**5.5b,5.3s**	**1260**	**1-155**	
NIED	III	16 06 29 00	39.90N	142.30E	50	5.7W,5.3s			**¶16320528**
BJI	III	16 06 29 01.1	40.00N	142.10E	31	5.6b,5.5s			
JMA	III	16 06 29 02.9–.10	39.86N	142.30E	41–2	5.7,5.5s			
MOS	III	16 06 29 02.7–.78	40.11N	141.99E	36	5.8b,5.5s			
ISCJB	III	16 06 29 03.6–.31	39.89N–.02	142.09E–.02	53–2	5.5b,5.4s			
GCMT	III	16 06 29 03.2–.10	39.87N	142.33E	48–0	5.8W,5.4s			
NEIC	III	16 06 29 03.2–.09	39.89N	142.02E	36	5.8W,5.7W			
NEIC	III	16 06 29 03.0–.00	39.77N	142.49E	31	5.8W,5.7W			
IDC	III	16 06 29 05.4–1.8	39.85N	142.16E	63–16	5.3,5.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ80.00000°. NP2:ϕ_s20.00000°,δ72.00000°,λ93.00000°. $M_0$4.71000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=97.6.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=148.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c243; s126,c326;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}4.40±.06 $M_{\theta\theta}$-0.18±.05; $M_{\phi\phi}$-4.22±.05; $M_{r\theta}$1.64±.05; $M_{\theta\phi}$-1.16±.04; $M_{\phi r}$3.29±.06; Best double couple: NP1:ϕ_s22.00000°,δ65.00000°,λ96.00000°. NP2:ϕ_s187.00000°,δ26.00000°,λ77.00000°. Principal axes:
T 5.7580,Plg70.0000°,Azm305.0000°; N 0.0560,Plg6.0000°,Azm200.0000°
; P -5.8110,Plg20.0000°,Azm107.0000° $M_0$5.78400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=140.0. Recorded [3 JMA] in Aomori and Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17} Nm; M_{rr}4.41 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-4.49 $M_{r\theta}$2.48 $M_{\theta\phi}$-1.29 $M_{\phi r}$4.03 Best double couple: NP1:ϕ_s182.00000°,δ24.00000°,λ67.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ100.00000°. Principal axes: T 6.5300,Plg65.0000°,Azm314.0000°; N 0.1900,Plg9.0000°,Azm203.0000°
; P -6.7200,Plg23.0000°,Azm109.0000° $M_0$6.60000×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}3.01 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-2.42 $M_{r\theta}$1.76 $M_{\theta\phi}$-0.60 $M_{\phi r}$2.00 Best double couple: NP1:ϕ_s32.00000°,δ67.00000°,λ100.00000°. NP2:ϕ_s188.00000°,δ25.00000°,λ67.00000°. Principal axes: T 4.1600,Plg66.0000°,Azm320.0000°; N -0.6000,Plg9.0000°,Azm208.0000°
; P -3.5500,Plg21.0000°,Azm114.0000° $M_0$3.90000×10^{17}
IDC Error ellipse: s-maj=10.5km s-min=9.6km az=83.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 06 51 27.1–1.0**	**35.75N–.04**	**141.08E–.07**	**32–6**	**3.9b**	**41**	**0-148**	
NIED	III	16 06 51 00	35.80N	141.00E	41	4.4W			**¶16478491**
ISCJB	III	16 06 51 26.7–.60	35.73N–.04	141.02E–.08	46–5	4.0b,4.0s			
JMA	III	16 06 51 27.5–.20	35.78N	141.01E	33–1	3.5,4.0s			
IDC	III	16 06 51 29.7–2.6	35.69N	140.90E	56–24	4.0,4.0			
NEIC	III	16 06 51 29.3–1.1	35.66N	140.89E	54–9	4.5b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ29.00000°,λ-126.00000°. NP2:ϕ_s131.00000°,δ67.00000°,λ-72.00000°. $M_0$4.07000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=172.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=15.0km az=70.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.7km az=70.0.
(228) Near east coast of eastern Honshu
JMA III 16 06 59 57.3–.10 36.93N 141.12E 49–1 3.0 ¶17196367
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 16 07 03 42.0–.20 38.38N 142.03E 33–2 4.0 ¶602664759
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 16 07 07 12.4–.10 35.95N 140.98E 16–1 3.8 ¶16327717
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 07 17 51.6–1.8**	**36.90N–.08**	**141.2E–.10**	**45–11**	**3.3b**	**15**	**0-57**	
IDC	III	16 07 17 44.3–2.5	36.93N	141.46E	0	3.3,3.3b			**¶602664718**
ISCJB	III	16 07 17 50.8–1.3	36.89N–.08	141.2E–.10	54–7	3.3b,3.3b			
JMA	III	16 07 17 52.6–.10	36.94N	141.05E	49–1	3.5,3.3b			

ISC Event type ke.
IDC Error ellipse: s-maj=64.1km s-min=27.6km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=18.3km s-min=12.3km az=167.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 07 18 02.7–.59**	**38.54N–.07**	**144.06E–.08**	**14**	**4.2b**	**46**	**2-118**	
JMA	III	16 07 17 56.2–.10	38.47N	142.27E	20–2	4.3			**¶16478499**
IDC	III	16 07 18 00.8–.63	38.56N	144.05E	0	4.2,4.1L			
ISCJB	III	16 07 18 01.1–.43	38.58N–.05	144.04E–.07	14	4.1b,4.1L			
NEIC	III	16 07 18 06.1–.32	38.62N	143.99E	35	4.3b,4.1L			

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.9km az=33.1.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=109.0.
(228) Near east coast of eastern Honshu
JMA III 16 07 33 08.5–.10 35.95N 140.98E 17–1 3.8 ¶602665870
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 16 07 34 44.2–.20 38.52N 142.00E 33–2 3.7 ¶602665866
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(227) Eastern Honshu

ISC	**III**	**16 07 42 22.4–1.1**	**36.83N–.04**	**138.59E–.03**	**5–12**		**19**	**0-57**	
IDC	III	16 07 42 20.9–2.2	36.82N	138.61E	0	3.8,3.8			**¶602665839**
JMA	III	16 07 42 22.5–.30	36.82N	138.61E	1–4	3.1,3.8			
ISCJB	III	16 07 42 22.0–.49	36.80N–.03	138.61E–.04	10–5	3.8b,3.7s			

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 16 07 57 45.6–.30 39.54N 142.80E 8–3 3.8 ¶602665757
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**16 08 17 09.2–.41**	**37.33N–.04**	**143.65E–.04**	**27–2**	**5.0b,4.3s**	**462**	**3-153**	
NIED	III	16 08 17 00	37.20N	143.50E	5	4.8W,4.3s			**¶602665676**
IDC	III	16 08 17 05.0–.45	37.24N	143.68E	0	4.9,4.9			
BJI	III	16 08 17 07.7	37.44N	143.45E	18	5.1b,4.9b			
ISCJB	III	16 08 17 09.2–.16	37.35N–.03	143.51E–.02	33	4.9b,4.3s			
JMA	III	16 08 17 09.1–.40	37.15N	143.48E	50	5.1,4.3s			
MOS	III	16 08 17 10.0–.96	37.75N	143.47E	26	5.2b,4.1s			
NEIC	III	16 08 17 10.8–.11	37.28N	143.54E	35	5.0b,4.1s			
GCMT	III	16 08 17 10.8–.60	37.37N	143.70E	23–1	4.9W,4.1s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ25.00000°,λ-84.00000°. NP2:ϕ_s196.00000°,δ65.00000°,λ-93.00000°. $M_0$1.55000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=11.0km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=161.5.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=104.9.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=148.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c12; s73,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.74±.40 $M_{\theta\theta}$-0.01±.23; $M_{\phi\phi}$2.76±.25; $M_{r\theta}$-1.16±.34; $M_{\theta\phi}$0.97±.10; $M_{\phi r}$-0.21±.26; Best double couple: NP1:ϕ_s37.00000°,δ54.00000°,λ-65.00000°. NP2:ϕ_s179.00000°,δ43.00000°,λ-120.00000°. Principal axes:
T 3.1210,Plg6.0000°,Azm109.0000°; N 0.0550,Plg20.0000°,Azm201.0000°
; P -3.1700,Plg69.0000°,Azm4.0000° $M_0$3.14600×10^{16}
(228) Near east coast of eastern Honshu
JMA III 16 08 17 27.1–.20 39.13N 142.39E 21–2 4.6 ¶600550081
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 08 30 43.4–1.9**	**36.74N–.06**	**141.2E–.10**	**35**	**3.7b**	**15**	**0-60**	
JMA	III	16 08 30 42.9–.10	36.75N	141.12E	31–1	3.5			**¶602665655**
ISCJB	III	16 08 30 43.0–1.2	36.73N–.05	141.15E–.09	35	3.8b			
IDC	III	16 08 30 52.7–3.6	35.27N	139.69E	0	3.9,3.7			

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.2km az=4.6.
IDC Error ellipse: s-maj=131.5km s-min=14.2km az=58.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**16 08 49 14.6–.84**	**36.32N–.04**	**140.89E–.06**	**52–7**	**3.8b**	**44**	**0-147**	
NIED	III	16 08 49 00	36.30N	140.80E	56	3.9W			**¶600550140**
ISCJB	III	16 08 49 13.7–.47	36.31N–.03	140.90E–.06	60–4	3.7b			
JMA	III	16 08 49 14.8–.10	36.31N	140.81E	54–1	3.9			
IDC	III	16 08 49 15.9–1.8	36.29N	140.81E	67–18	3.8,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ35.00000°,λ70.00000°. NP2:ϕ_s25.00000°,δ57.00000°,λ104.00000°. $M_0$9.12000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.3km az=179.0.
JMA Event type fe.
IDC Error ellipse: s-maj=17.9km s-min=11.4km az=85.0.
(228) Near east coast of eastern Honshu
JMA III 16 08 59 31.4–.10 37.50N 141.31E 49–2 3.8

¶602665602
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(221) Kuril Islands
ISC III 16 09 11 45.5–.59 50.61N–.06 157.48E–.05 61–5 4.1b 92 1-146
MOS III 16 09 11 42.2–.94 50.44N 157.35E 60 4.2b ¶17196412
KRSC III 16 09 11 43.8–1.6 50.65N 157.83E 41–23 4.8L
ISCJB III 16 09 11 45.4–.78 50.67N–.06 157.34E–.09 75–6 3.9b
IDC III 16 09 11 46.4–.51 50.67N 157.24E 60–4 4.0,4.0
ISC Event type se.
MOS Event type fe. Error ellipse: s-maj=14.5km s-min=4.8km az=80.8. Felt (II-III) at Severo-Kuril'sk. Moment Tensor Solution.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.2km az=136.9.
IDC Error ellipse: s-maj=13.4km s-min=8.9km az=104.0.
(229) Off east coast of Honshu
ISC III 16 09 15 06.1–.57 37.15N–.07 143.60E–.08 35 4.4b 60 4-145
IDC III 16 09 15 01.1–.58 37.20N 143.66E 0 4.4,4.4 ¶16478543
ISCJB III 16 09 15 04.2–.44 37.12N–.06 143.53E–.07 33 4.4b,4.4
NEIC III 16 09 15 06.2–.46 37.19N 143.59E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=13.5km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.8km az=151.3.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=7.7km az=131.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC III 16 09 15 25.1–.56 36.96N–.06 141.49E–.06 33 4.4b 37 1-147
NIED III 16 09 15 00 36.90N 141.50E 38 4.7W ¶17196413
ISCJB III 16 09 15 23.5–.45 36.94N–.05 141.60E–.05 33 4.4b,3.7s
JMA III 16 09 15 25.0–.20 36.98N 141.45E 46–2 4.5,3.7s
IDC III 16 09 15 29.9–3.5 36.96N 141.51E 75–31 4.5,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ5.00000°. NP2:ϕ_s91.00000°,δ88.00000°,λ113.00000°. $M_0$1.33000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.3km az=176.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.8km s-min=12.5km az=100.0.
(228) Near east coast of eastern Honshu
ISC III 16 09 29 32.6–2.4 38.18N–.06 142.06E–.07 9–14 3.9b 30 1-146
NIED III 16 09 29 00 38.10N 142.10E 5 3.9W ¶602665557
JMA III 16 09 29 32.1–.30 38.11N 142.12E 21–4 4.3
IDC III 16 09 29 38.8–3.2 38.09N 142.04E 58–29 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ40.00000°,λ-88.00000°. NP2:ϕ_s155.00000°,δ50.00000°,λ-92.00000°. $M_0$7.83000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.2km s-min=15.4km az=102.0.
(228) Near east coast of eastern Honshu
ISC III 16 09 34 54.1–3.2 39.29N–.08 142.4E–.10 23–22 3.5b 18 1-63
IDC III 16 09 34 50.2–.98 39.14N 142.69E 0 3.6,3.4 ¶17196418
ISCJB III 16 09 34 52.1–1.8 39.25N–.06 142.55E–.09 22–11 3.4b,3.4
JMA III 16 09 34 54.2–.20 39.22N 142.40E 26–3 3.8,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=36.6km s-min=21.2km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.1km az=12.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 09 56 13.5–1.7 36.50N–.05 141.1E–.10 18–6 3.5b 20 0-60
NIED III 16 09 56 00 36.50N 141.00E 32 3.6W ¶17196423
ISCJB III 16 09 56 13.2–1.2 36.47N–.05 141.10E–.07 27–5 3.5b
JMA III 16 09 56 14.4–.10 36.52N 141.03E 34–1 3.5
IDC III 16 09 56 17.7–1.8 35.59N 140.37E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ80.00000°,λ5.00000°. NP2:ϕ_s139.00000°,δ85.00000°,λ170.00000°. $M_0$2.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=7.8km az=18.4.
JMA Event type fe.
IDC Error ellipse: s-maj=59.3km s-min=19.5km az=61.0.
(228) Near east coast of eastern Honshu
JMA III 16 10 08 49.7–.10 35.82N 140.89E 9–1 3.6
NIED III 16 10 08 00 35.80N 140.90E 11 3.7W ¶600550258
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ42.00000°,λ-35.00000°. NP2:ϕ_s288.00000°,δ67.00000°,λ-127.00000°. $M_0$4.54000×10^{14}
(229) Off east coast of Honshu
ISC III 16 10 09 31.9–.96 37.64N–.06 142.09E–.08 24 3.5b 14 1-63
IDC III 16 10 09 28.5–.96 37.59N 142.54E 0 3.8,3.7 ¶17196426
ISCJB III 16 10 09 30.6–.75 37.58N–.05 142.22E–.07 24 3.5b,3.7
JMA III 16 10 09 32.8–.20 37.65N 142.09E 34 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=19.3km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.4km az=8.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 10 15 24.0–1.1 36.00N–.04 141.47E–.08 22–7 3.8b 31 1-76
JMA III 16 10 15 25.4–.10 36.04N 141.43E 44–2 3.8 ¶17196428
IDC III 16 10 15 28.2–3.5 35.92N 141.30E 57–30 4.3,4.2s
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=14.2km az=78.0.
(229) Off east coast of Honshu
ISC III 16 10 16 11.5–.44 39.79N–.04 143.57E–.04 23–2 5.1b,4.9s 478 2-146
NIED III 16 10 16 00 39.90N 143.60E 8 5.1W,4.9s ¶602664677
IDC III 16 10 16 07.6–.54 39.78N 143.64E 0 4.8,4.7
ISCJB III 16 10 16 07.7–.89 39.82N–.02 143.46E–.03 4–5 5.0b,4.9s
BJI III 16 10 16 10.7 39.72N 143.19E 18 5.2b,5.1b
JMA III 16 10 16 10.9–.20 39.87N 143.60E 36 5.0,5.1b
MOS III 16 10 16 11.5–1.0 39.89N 143.47E 29 5.3b,4.7s
NEIC III 16 10 16 12.5–.36 39.80N 143.43E 25–2 5.1b,4.7s
GCMT III 16 10 16 12.5–.20 39.73N 143.84E 17–1 5.2W,4.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ38.00000°,λ30.00000°. NP2:ϕ_s39.00000°,δ72.00000°,λ124.00000°. $M_0$4.81000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=12.2km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=143.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=104.8.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=145.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c65; s101,c187; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.19 $M_{\theta\theta}$0.15±.10; $M_{\phi\phi}$-4.04±.13; $M_{r\theta}$2.26±.31; $M_{\theta\phi}$-0.70±.06; $M_{\phi r}$5.50±.43; Best double couple: NP1:ϕ_s20.00000°,δ73.00000°,λ97.00000°. NP2:ϕ_s178.00000°,δ18.00000°,λ69.00000°. Principal axes:
T 7.1200,Plg61.0000°,Azm300.0000°; N 0.1140,Plg7.0000°,Azm198.0000°
; P -7.2390,Plg28.0000°,Azm105.0000° $M_0$7.17900×10^{16}
(228) Near east coast of eastern Honshu
ISC III 16 10 21 27.6–2.2 35.66N–.05 141.25E–.10 13–12 3.7b 18 0-56
IDC III 16 10 21 22.9–2.8 36.09N 141.86E 0 3.7,3.6b ¶600550278
ISCJB III 16 10 21 28.6–1.7 35.65N–.05 141.2E–.10 27–8 3.6b,3.6b
JMA III 16 10 21 31.6–.10 35.62N 140.97E 27–1 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=80.4km s-min=29.4km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=18.7km s-min=6.5km az=161.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 10 27 21.0–1.8 39.2N–.20 142.3E–.10 29 4.2b 9 1-73
JMA III 16 10 27 20.6–.10 39.13N 142.31E 22–2 4.4 ¶17196433
IDC III 16 10 27 20.3–1.1 39.79N 142.12E 0 4.2,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=40.4km s-min=23.1km az=79.0.
(228) Near east coast of eastern Honshu
ISC III 16 10 32 34.9–1.1 38.41N–.09 142.10E–.10 41 4.0b 14 1-89
IDC III 16 10 32 21.3–2.2 36.57N 141.55E 0 4.2,4.0 ¶17196437
JMA III 16 10 32 31.5–.30 38.32N 142.27E 43 4.4,4.0
ISCJB III 16 10 32 33.5–.87 38.38N–.07 142.15E–.08 41 4.0b,4.0
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 16 10 48 33.2–.20 38.79N 142.14E 36–3 3.7
¶602664631
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 10 49 10.8–.77 37.75N–.06 141.82E–.07 47–7 3.8b 33 1-146
NIED III 16 10 49 00 37.70N 141.80E 35 4.1W ¶600550318
ISCJB III 16 10 49 09.8–1.2 37.74N–.05 141.8E–.10 55–10 3.9b,3.4s
JMA III 16 10 49 10.0–.20 37.74N 141.76E 27–3 4.3,3.4s
IDC III 16 10 49 11.0–.73 37.80N 141.85E 48–7 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ16.00000°,λ141.00000°. NP2:ϕ_s2.00000°,δ80.00000°,λ77.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=8.1km az=173.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=14.3km az=144.0.
(228) Near east coast of eastern Honshu
ISC III 16 10 50 47.8–2.2 36.94N–.05 141.51E–.08 7–13 3.7b 19 1-90
IDC III 16 10 50 52.2–4.3 36.83N 141.68E 38–39 3.8,3.7 ¶17196446
JMA III 16 10 50 52.9–.20 37.02N 141.30E 47–1 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=21.6km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 11 12 02.9–1.4 37.47N–.05 141.81E–.05 20–6 3.6b 27 1-90
NIED III 16 11 12 00 37.50N 141.70E 38 4.0W ¶17196450
IDC III 16 11 12 06.0–2.3 37.43N 141.89E 45–24 3.8,3.8
JMA III 16 11 12 05.1–.20 37.50N 141.75E 33–3 4.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ13.00000°,λ143.00000°. NP2:ϕ_s291.00000°,δ82.00000°,λ80.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=23.2km s-min=13.2km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(366) Turkey
ISC III 16 11 18 02.3–.77 37.28N–.01 30.61E–.01 11–5 4.5b 633 0-124
NIC III 16 11 17 56.8–.30 37.40N 30.12E 37 4.5b,4.1L ¶16339086
IDC III 16 11 17 59.9–.49 37.32N 30.57E 0 4.4,4.4b
DDA III 16 11 18 00.2 37.25N 30.65E 24 4.4,4.4b
BJI III 16 11 18 00.9 37.30N 30.70E 10 5.0b,4.7b
NEIC III 16 11 18 01.6 37.30N 30.48E 8 4.4L,4.4b
ISK III 16 11 18 01.6 37.31N 30.48E 8 4.1L,4.4b
ISCJB III 16 11 18 02.2–.36 37.26N–.01 30.61E–.01 22–3 4.4b,3.5s
CSEM III 16 11 18 02.7–.06 37.28N 30.57E 10 4.6b,3.5s
THE III 16 11 18 02.7 37.35N 30.73E 6–1 4.1L,3.5s
NSSC III 16 11 18 03.8–3.2 37.32N 30.94E 0–112 3.4L,2.5
GII III 16 11 18 04.0–.00 37.20N 30.41E 15 4.1b,3.7
HLW III 16 11 18 05.1 37.14N 30.79E 26–10 4.5,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=125.0.
NEIC Event type fe. Felt [II] at Antalya. After ISK.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=135.7.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=48.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=53.0.
NSSC Error ellipse: s-maj=79.9km s-min=184.7km az=-1.0.
GII Event type ke.
(228) Near east coast of eastern Honshu
ISC III 16 11 20 05.2–.50 36.23N–.03 141.17E–.04 20–3 4.9b,4.2s 670 1-147
NIED III 16 11 20 00 36.20N 141.30E 5 4.7W,4.2s ¶602443625
BJI III 16 11 20 02.7 36.12N 141.25E 24 5.0b,4.7b
JMA III 16 11 20 03.9–.10 36.14N 141.23E 35–2 4.9,4.7b
ISCJB III 16 11 20 03.9–.64 36.29N–.03 141.12E–.02 17–4 4.8b,4.2s
IDC III 16 11 20 06.4–3.5 36.13N 141.16E 32–26 4.6,4.5
NEIC III 16 11 20 06.0–1.4 36.21N 141.07E 22–9 5.0b,4.5
GCMT III 16 11 20 06.0–.40 36.13N 141.21E 16–1 4.8W,4.5
MOS III 16 11 20 08.5–.86 36.68N 140.99E 37 5.1b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ39.00000°,λ-56.00000°. NP2:ϕ_s27.00000°,δ58.00000°,λ-115.00000°. $M_0$1.29000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=172.2.
IDC Error ellipse: s-maj=12.7km s-min=11.6km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=144.0. Recorded [3 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c13; s64,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.22±.21 $M_{\theta\theta}$1.29±.13; $M_{\phi\phi}$0.93±.12; $M_{r\theta}$-0.24±.32; $M_{\theta\phi}$0.97±.07; $M_{\phi r}$-0.04±.36; Best double couple: NP1:ϕ_s53.00000°,δ48.00000°,λ-86.00000°. NP2:ϕ_s227.00000°,δ42.00000°,λ-95.00000°. Principal axes:
T 2.1030,Plg3.0000°,Azm140.0000°; N 0.1340,Plg3.0000°,Azm231.0000°
; P -2.2370,Plg86.0000°,Azm9.0000° $M_0$2.17000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=106.5.
(228) Near east coast of eastern Honshu
ISC III 16 11 37 52.1–1.2 38.84N–.05 142.59E–.07 23–7 4.1b 48 1-88
IDC III 16 11 37 52.4–.96 38.80N 142.63E 25–5 4.0,3.9 ¶16478411
JMA III 16 11 37 52.0–.20 38.78N 142.44E 22–3 4.2,3.9
ISCJB III 16 11 37 52.2–.94 38.77N–.04 142.55E–.07 39–8 4.1b,3.9
NEIC III 16 11 37 53.6–.34 38.83N 142.62E 35 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=14.5km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=21.6.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=125.0.
(228) Near east coast of eastern Honshu
JMA III 16 11 39 31.1–.30 38.20N 142.08E 11–3 4.3
¶602664438
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 11 44 57.8–.42 37.62N–.04 141.53E–.04 44–3 4.8b,4.2s 278 1-151
NIED III 16 11 44 00 37.60N 141.50E 50 4.6W,4.2s ¶16322677
BJI III 16 11 44 50.3 37.41N 141.83E 25 5.1b,4.9b
MOS III 16 11 44 55.1–1.0 37.66N 141.49E 33 5.1b,4.9b
NEIC III 16 11 44 57.4–.29 37.66N 141.49E 35 5.0b,4.9b
ISCJB III 16 11 44 57.3–.45 37.58N–.03 141.49E–.04 56–3 4.8b,4.0s
JMA III 16 11 44 58.3–.10 37.60N 141.49E 46–2 4.5,4.0s
IDC III 16 11 44 59.3–.45 37.55N 141.47E 60–3 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ21.00000°,λ90.00000°. NP2:ϕ_s21.00000°,δ69.00000°,λ90.00000°. $M_0$8.63000×10^{15}
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=110.4.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.2km az=141.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.4km az=111.0.
(228) Near east coast of eastern Honshu
ISC III 16 11 51 40.3–.60 38.58N–.05 143.10E–.07 34–2 4.4b,4.2s 74 2-150
NIED III 16 11 51 00 38.60N 142.80E 20 4.4W,4.2s ¶16339088
JMA III 16 11 51 38.6–.30 38.62N 142.79E 4–3 4.6,4.2s
ISCJB III 16 11 51 39.0–.99 38.57N–.04 143.07E–.08 39–8 4.3b,3.9s
NEIC III 16 11 51 40.1–2.8 38.51N 143.18E 34–20 4.7b,3.9s
IDC III 16 11 51 40.2–.61 38.53N 143.05E 35–4 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ47.00000°,λ-152.00000°. NP2:ϕ_s206.00000°,δ70.00000°,λ-47.00000°. $M_0$4.61000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.9km az=9.6.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.3km az=103.0.
IDC Error ellipse: s-maj=14.1km s-min=12.6km az=149.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**16 12 14 13.9–.10**	**36.54N**	**140.83E**	**52–1**	**3.8**			**¶602664415**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**16 12 30 14.7–.20**	**37.84N**	**141.85E**	**35–4**	**3.8**			**¶603049856**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**16 12 48 35.8–.62**	**37.28N–.04**	**142.70E–.04**	**23–3**	**4.8b,4.3s**	**250**	**2-151**	
NIED	III	16 12 48 00	37.30N	142.50E	23	4.4W,4.3s			**¶602664364**
IDC	III	16 12 48 33.2–.49	37.32N	142.58E	0	4.6,4.5			
ISCJB	III	16 12 48 34.6–1.1	37.31N–.03	142.62E–.04	24–8	4.7b,4.3s			
BJI	III	16 12 48 34.0	37.22N	142.46E	19	5.0b,4.8b			
MOS	III	16 12 48 36.3–1.2	37.45N	142.63E	33	5.1b,4.8b			
JMA	III	16 12 48 36.7–.20	37.33N	142.51E	29	4.6,4.8b			
NEIC	III	16 12 48 37.7–1.3	37.34N	142.57E	30–9	4.9b,4.8b			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ40.00000°,λ135.00000°. NP2:ϕ_s71.00000°,δ63.00000°,λ60.00000°. M_o4.56000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.7km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=135.3.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=110.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=124.0.

(37) Nevada

ISC	**III**	**16 12 56 20.4–1.3**	**39.08N–.02**	**118.76W–.03**	**2–14**		**36**	**1-6**	
NEIC	III	16 12 56 20.5	39.03N	118.81W	6	3.4L			**¶16339089**

ISC Event type fe.
NEIC Event type fe. Felt at Gardnerville and Schurz. Also felt at Nevada City, Sacramento and in northeastern Fresno County, California. After REN.

(244) Taiwan

ISC	**III**	**16 13 12 17.6–.56**	**22.53N–.02**	**120.66E–.03**	**44–5**	**4.3b,3.4s**	**200**	**0-147**	
IDC	III	16 13 12 10.5–.55	22.52N	120.83E	0	4.3,4.2			**¶16327726**
BJI	III	16 13 12 15.7	22.73N	120.51E	9	4.6b,4.3b			
JMA	III	16 13 12 15.5–.10	22.49N	120.70E	46–1	5.0,4.3b			
NEIC	III	16 13 12 16.4–.59	22.48N	120.80E	42–5	4.4b,4.3b			
TAP	III	16 13 12 16.6	22.56N	120.68E	35–0	4.7L,4.3b			
ISCJB	III	16 13 12 16.1–.21	22.51N–.02	120.69E–.02	51–2	4.3b,3.3s			

ISC Event type fe.
NEIC Event type fe. Felt [II] at Kaohsiung. Also felt at Tainan. Recorded [3 TAP] in Pingtung and Taitung; [2 TAP] in Yunlin; [1 TAP] in Changhua, Chiayi and Penghu.
TAP B.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 13 26 36.6–.88**	**38.90N–.06**	**142.35E–.08**	**27**	**3.8b**	**24**	**1-63**	
IDC	III	16 13 26 32.1–.91	38.83N	142.38E	0	3.8,3.8L			**¶16427614**
ISCJB	III	16 13 26 34.1–.62	38.86N–.05	142.58E–.07	27	3.7b,3.8L			
NEIC	III	16 13 26 37.1–.69	38.77N	142.25E	35	4.1b,3.8L			
JMA	III	16 13 26 37.8–.20	38.96N	142.36E	32–3	4.0,3.8L			

ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=18.7km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=7.1km az=151.3.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=10.1km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**16 13 26 52.8–.20**	**35.95N**	**141.22E**	**25–2**	**3.7**			
NIED	III	16 13 26 00	36.00N	141.20E	11	3.6W			**¶600550574**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ45.00000°,λ-6.00000°. NP2:ϕ_s339.00000°,δ86.00000°,λ-135.00000°. M_o2.95000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**III**	**16 13 33 53.0–1.4**	**35.99N–.06**	**140.96E–.10**	**26–8**	**3.9b**	**21**	**0-58**	
IDC	III	16 13 33 49.0–2.6	35.94N	141.13E	0	3.8,3.8b			**¶16427615**
JMA	III	16 13 33 52.8–.10	35.98N	140.99E	32–1	3.4,3.8b			
ISCJB	III	16 13 33 52.5–.00	35.95N–.06	141.0E–.10	37–7	4.0b,3.8b			
NEIC	III	16 13 33 57.6–3.4	35.78N	140.59E	55–20	4.2b,3.8b			

ISC Event type se.
IDC Error ellipse: s-maj=76.7km s-min=29.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=8.0km az=148.9.
NEIC Event type se. Error ellipse: s-maj=49.4km s-min=13.7km az=69.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 13 39 01.1–.52**	**35.82N–.03**	**140.59E–.04**	**52–4**	**5.6b,4.5s**	**855**	**0-158**	
BJI	III	16 13 38 51.5	35.70N	141.07E	29	5.5b,5.3b			**¶602442411**
NIED	III	16 13 39 00	36.00N	140.50E	56	5.2W,5.3b			
ISCJB	III	16 13 39 02.0–.37	35.81N–.02	140.36E–.03	68–2	5.4b,5.3b			
MOS	III	16 13 39 02.2–.91	35.88N	140.31E	69	5.8b,4.5s			
JMA	III	16 13 39 02.5–.10	35.92N	140.44E	53–2	5.4,4.5s			
IDC	III	16 13 39 03.6–1.1	35.82N	140.40E	70–9	5.4,5.2			
NEIC	III	16 13 39 05.3–.58	35.82N	140.31E	85–5	5.4b,5.2			
GCMT	III	16 13 39 05.8–.20	35.88N	140.54E	54–0	5.3W,5.2			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ24.00000°,λ116.00000°. NP2:ϕ_s12.00000°,δ69.00000°,λ79.00000°. M_o8.08000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=18.4.
MOS Error ellipse: s-maj=8.5km s-min=4.8km az=108.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ87.00000°,λ90.00000°. NP2: ϕ_s192.00000°,δ3.00000°,λ81.00000°. Principal axes: T Plg48.0000°,Azm292.0000° ; N Plg0.0000°,Azm21.0000°; P Plg42.0000°,Azm111.0000°
IDC Error ellipse: s-maj=9.8km s-min=6.3km az=71.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=107.0. Felt at Ibaraki, Oyama, Yamato, Yokosuka and Zama. Recorded [4 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c136; s111,c203; Duration: 1$\mathfrak{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$-0.77±.02; $M_{r\theta}$0.14±.01; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$0.61±.01; Best double couple: NP1:ϕ_s14.00000°,δ63.00000° ,λ89.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ93.00000°. Principal axes: T 1.0660,Plg72.0000°,Azm281.0000°; N -0.0270,Plg1.0000°,Azm15.0000° ; P -1.0390,Plg18.0000°,Azm105.0000° M_o1.05300×10^{17}

(89) Mona Passage

ISC	**III**	**16 13 42 30.6–.27**	**19.02N–.04**	**67.97W–.04**	**20**	**5.0b,4.3s**	**712**	**1-167**	
MOS	III	16 13 42 28.6–1.2	19.06N	67.97W	16	5.2b,4.3s			**¶16327729**
ISCJB	III	16 13 42 29.2–.11	19.06N–.02	68.01W–.02	20	4.9b,4.4s			
IDC	III	16 13 42 31.9–2.2	18.97N	68.04W	30–15	4.7,4.6			
NEIC	III	16 13 42 33.6	19.03N	67.92W	56	5.4,5.0W			
GCMT	III	16 13 42 33.6–.20	19.19N	67.84W	25–1	5.2W,5.0W			
BJI	III	16 13 42 34.6	19.00N	67.90W	56	5.3b,5.3s			

ISC Event type fe.
MOS Error ellipse: s-maj=10.4km s-min=5.3km az=130.1.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=41.8.
IDC Error ellipse: s-maj=10.7km s-min=9.5km az=61.0.
NEIC Event type fe. Felt [IV] at Boca de Yuma, [III] at Higuey and [II] at Otra Banda, Santiago and Santo Domingo. Felt widely in eastern and central Dominican Republic. Felt [IV] at Mayaguez and Moca and [III] in much of Puerto Rico. Felt [II] at Road Town, Virgin Islands. Also felt on Saint Thomas. After RSPR. Moment Tensor Solution. s12 Moment tensor: Scale 10^{16}Nm; M_{rr}0.58 $M_{\theta\theta}$-1.49 $M_{\phi\phi}$0.91 $M_{r\theta}$-1.17 $M_{\theta\phi}$1.50 $M_{\phi r}$3.08 Best double couple: NP1:ϕ_s75.00000° ,δ30.00000°,λ10.00000°. NP2:ϕ_s336.00000°,δ85.00000°,λ120.00000°. Principal axes: T 3.8400,Plg42.0000°,Azm275.0000°; N 0.0000,Plg30.0000°,Azm153.0000° ; P -3.8500,Plg33.0000°,Azm42.0000° M_o3.80000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c61; s95,c135; Duration: 1$\mathfrak{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.23±.18 $M_{\theta\theta}$-2.33±.14; $M_{\phi\phi}$1.10±.13; $M_{r\theta}$-3.25±.35; $M_{\theta\phi}$3.37±.11; $M_{\phi r}$6.38±.60; Best double couple: NP1:ϕ_s335.00000°,δ84.00000° ,λ115.00000°. NP2:ϕ_s78.00000°,δ26.00000°,λ14.00000°. Principal axes: T 7.5460,Plg45.0000°,Azm271.0000°; N 1.1260,Plg25.0000°,Azm153.0000° ; P -8.6710,Plg34.0000°,Azm44.0000° M_o8.10900×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**16 13 50 27.8–.68**	**37.09N–.05**	**141.31E–.06**	**33**	**3.9b**	**42**	**0-147**	
IDC	III	16 13 50 23.0–.82	37.13N	141.29E	0	4.0,3.9			**¶602665109**
ISCJB	III	16 13 50 25.7–.51	37.07N–.04	141.49E–.05	33	4.0b,3.9			
NEIC	III	16 13 50 28.4–1.0	37.12N	141.33E	40–9	4.3b,3.9			
JMA	III	16 13 50 29.9–.10	37.05N	141.14E	50–1	4.1,3.9			

ISC Event type ke.
IDC Error ellipse: s-maj=21.4km s-min=19.3km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=43.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.3km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 13 54 03.6–1.2**	**37.39N–.03**	**141.37E–.05**	**18–7**	**4.7b,3.8s**	**198**	**1-147**	
NIED	III	16 13 54 00	37.30N	141.40E	26	4.5W,3.8s			**¶602665104**
IDC	III	16 13 54 00.9–.44	37.37N	141.36E	0	4.6,4.5			
MOS	III	16 13 54 04.4–1.3	37.50N	141.37E	33	4.9b,4.5			
JMA	III	16 13 54 04.9–.10	37.36N	141.34E	29–1	4.6,4.5			
ISCJB	III	16 13 54 04.5–.73	37.36N–.03	141.33E–.04	33–5	4.6b,3.7s			
NEIC	III	16 13 54 06.5–.58	37.42N	141.23E	35–5	4.8b,3.7s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ29.00000°,λ-61.00000°. NP2:ϕ_s236.00000°,δ65.00000°,λ-105.00000°. M_o6.42000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.4km az=115.0.
MOS Error ellipse: s-maj=8.7km s-min=5.5km az=87.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=139.5.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.5km az=137.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 14 14 14.7–1.9**	**36.23N–.05**	**141.02E–.08**	**24–14**	**3.6b**	**19**	**1-60**	
ISCJB	III	16 14 14 14.9–.99	36.19N–.04	141.03E–.08	41–10	3.5b			**¶602665040**
JMA	III	16 14 14 16.4–.10	36.21N	140.91E	45–1	3.7			
IDC	III	16 14 14 17.0–3.5	36.17N	141.00E	42–31	3.5,3.5			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=7.5km az=4.0.
JMA Event type fe.
IDC Error ellipse: s-maj=37.5km s-min=14.7km az=79.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 14 17 46.8–1.2**	**35.84N–.04**	**140.90E–.07**	**15–8**	**3.6b**	**26**	**0-148**	
NIED	III	16 14 17 00	35.90N	140.90E	8	3.8W			**¶17196469**
IDC	III	16 14 17 44.2–.70	35.74N	140.92E	0	3.9,3.8			
JMA	III	16 14 17 46.7–.10	35.86N	140.94E	15–1	4.2,3.8			
ISCJB	III	16 14 17 46.2–.71	35.81N–.04	140.95E–.07	23–4	3.6b,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ31.00000°,λ-95.00000°. NP2:ϕ_s46.00000°,δ59.00000°,λ-87.00000°. M_o6.13000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(138) La Rioja Province

ISC	**III**	**16 14 22 05.0–.61**	**30.93S–.05**	**66.57W–.05**	**10**	**3.8b**	**28**	**0-151**	
IDC	III	16 14 22 01.9–.94	31.02S	66.59W	0	4.0,3.9L			**¶16427620**
ISCJB	III	16 14 22 03.6–.57	30.82S–.05	66.50W–.05	10	3.9b,3.4s			
IASPE	III	16 14 22 05.4–.57	30.96S	66.64W	22	3.8b,3.4s			
SJA	III	16 14 22 05.0–.52	30.94S	66.66W	21–2	4.2L,3.4s			
NEIC	III	16 14 22 06.9–2.4	31.03S	66.48W	33–18	4.2,3.4s			

ISC Event type fe.
IDC Error ellipse: s-maj=33.9km s-min=25.4km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.9km az=23.5.
IASPE Event type ke. Argentina. GT5 from local network data. INPRES Catalog, 2013, personal communication with Gerardo S¨¡nchez, Dpto. Investigaciones Sismol¨‡gicas, INPRES - Argentina.
SJA Error ellipse: s-maj=1.6km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.8km s-min=10.0km az=94.0. Felt [III] in the Chepes-Olta area.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 14 28 19.0–1.5**	**36.43N–.07**	**141.71E–.09**	**34–4**	**4.2b**	**24**	**1-60**	
NIED	III	16 14 28 00	36.30N	141.40E	20	4.2W			**¶16427621**
IDC	III	16 14 28 14.1–1.2	36.53N	141.99E	0	4.3,4.1			
NEIC	III	16 14 28 18.9–.70	36.54N	141.87E	35	4.6b,4.1			
ISCJB	III	16 14 28 20.0–1.1	36.34N–.05	141.60E–.09	51–10	4.2b,4.1			
JMA	III	16 14 28 21.6–.10	36.34N	141.42E	49–3	4.5,4.1			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ55.00000°,λ150.00000°. NP2:ϕ_s328.00000°,δ65.00000°,λ39.00000°. M_o2.15000×10^{15}
IDC Error ellipse: s-maj=32.4km s-min=24.0km az=102.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=7.6km az=167.8.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 14 38 12.2–.60**	**39.24N–.07**	**142.98E–.06**	**16**	**4.3b,4.2s**	**72**	**1-88**	
NIED	III	16 14 38 00	39.30N	142.90E	23	4.3W,4.2s			**¶16339092**
ISCJB	III	16 14 38 10.0–.38	39.19N–.04	143.01E–.05	16	4.3b,4.2s			
JMA	III	16 14 38 12.5–.30	39.30N	142.89E	14–3	4.4,4.2s			
NEIC	III	16 14 38 16.2–.90	39.25N	142.90E	50–7	4.7b,4.2s			
IDC	III	16 14 38 16.3–2.2	39.19N	142.88E	50–20	4.1,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ31.00000°,λ-92.00000°. NP2:ϕ_s265.00000°,δ59.00000°,λ-89.00000°. M_o2.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=165.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.3km az=123.0.
IDC Error ellipse: s-maj=15.5km s-min=12.7km az=104.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 14 46 09.0–.42**	**38.55N–.03**	**141.86E–.03**	**44–3**	**5.3b,4.5s**	**1105**	**1-155**	
NIED	III	16 14 46 00	38.50N	141.80E	50	5.2W,4.5s			**¶16327735**
BJI	III	16 14 46 07.1	38.50N	141.70E	30	5.2b,5.1b			
MOS	III	16 14 46 08.1–.94	38.67N	141.74E	41	5.5b,4.4s			
ISCJB	III	16 14 46 08.9–.45	38.55N–.02	141.71E–.02	50–3	5.3b,4.5s			
JMA	III	16 14 46 10.0–.20	38.54N	141.80E	54–2	5.3,4.5s			
IDC	III	16 14 46 10.9–1.5	38.56N	141.71E	56–12	5.2,5.0			
GCMT	III	16 14 46 11.4–.20	38.61N	141.86E	51–0	5.2W,5.0			
NEIC	III	16 14 46 11.4–.44	38.54N	141.66E	62–4	5.2b,5.0			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ20.00000°,λ82.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ93.00000°. M_o6.22000×10^{16}
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=98.5.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=150.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=10.1km az=97.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s77,c124; s100,c191; Duration: 1$\mathfrak{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.59±.01; $M_{r\theta}$0.27±.01; $M_{\theta\phi}$-0.17±.01; $M_{\phi r}$0.49±.01; Best double couple: NP1:ϕ_s24.00000°,δ65.00000° ,λ96.00000°. NP2:ϕ_s191.00000°,δ26.00000°,λ78.00000°. Principal axes: T 0.8990,Plg70.0000°,Azm305.0000°; N -0.0560,Plg5.0000°,Azm202.0000° ; P -0.8440,Plg20.0000°,Azm110.0000° M_o0.87100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=136.0. Felt at Misawa. Recorded [4 JMA] in Iwate.

(229) Off east coast of Honshu

ISC	**III**	**16 15 00 57.0–.50**	**39.14N–.05**	**144.53E–.06**	**19**	**4.6b,3.7s**	**101**	**3-145**	
NIED	III	16 15 00 00	39.20N	144.40E	5	4.5W,3.7s			**¶602664961**
IDC	III	16 15 00 53.4–.54	38.97N	144.63E	0	4.4,4.4			
NEIC	III	16 15 00 55.9–1.9	39.03N	144.55E	14–12	4.8b,4.4			
ISCJB	III	16 15 00 55.4–.31	39.13N–.04	144.46E–.04	19	4.5b,3.6s			
JMA	III	16 15 00 58.0–.60	39.20N	144.43E	61	4.9,3.6s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ34.00000°,λ-46.00000°. NP2:ϕ_s151.00000°,δ66.00000°,λ-116.00000°. M_o5.72000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=12.2km az=131.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.8km az=153.8.

JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 15 08 27.5–.78**	**38.36N–.08**	**141.77E–.08**	**35**	**3.9b**	**32**	**1-77**
IDC	III	16 15 08 22.1–.78	38.33N	141.84E	0	3.9,3.8		**¶16427627**
ISCJB	III	16 15 08 25.0–.58	38.27N–.06	141.86E–.07	35	4.0b,3.8		
JMA	III	16 15 08 26.0–.10	38.37N	141.88E	28–2	4.1,3.8		
NEIC	III	16 15 08 28.1–.77	38.30N	141.74E	44–6	4.8b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=17.2km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.1km az=136.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.0km az=128.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 15 21 28.3–1.8**	**35.87N–.05**	**141.02E–.09**	**12–8**		**15**	**0-60**
IDC	III	16 15 21 22.9–8.9	36.24N	141.52E	0	3.4,3.2		**¶17196477**
ISCJB	III	16 15 21 29.2–1.3	35.83N–.05	140.98E–.10	13–6	3.3b,3.2		
JMA	III	16 15 21 30.3–.10	35.81N	140.89E	10–1	3.5,3.2		

ISC Event type ke.
IDC Error ellipse: s-maj=203.9km s-min=38.9km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.5km az=1.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 15 36 04.8–2.0**	**36.37N–.05**	**141.79E–.08**	**2–12**	**3.6b**	**26**	**1-60**
IDC	III	16 15 36 02.9–2.1	36.45N	142.18E	0	3.7,3.7		**¶600550850**
JMA	III	16 15 36 09.2–.20	36.45N	141.82E	59	3.3,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=55.7km s-min=21.3km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(364) Greece

ISC	**III**	**16 16 07 24.1–.73**	**38.46N–.01**	**20.45E–.02**	**19–3**	**4.5b,4.0s**	**778**	**0-122**
BJI	III	16 16 07 20.6	38.50N	20.40E	10	5.0b,4.9s		**¶16339096**
TIR	III	16 16 07 21.4–3.3	38.39N	20.60E	20–24	4.1L,4.9s		
IDC	III	16 16 07 21.1–.53	38.52N	20.49E	0	4.4,4.4b		
MOS	III	16 16 07 22.6–1.4	38.47N	20.33E	25	4.8b,4.4b		
ISCJB	III	16 16 07 23.2–.36	38.49N–.02	20.33E–.02	26–2	4.5b,4.0s		
ATH	III	16 16 07 23.9	38.44N	20.51E	20–1	4.5L,4.0s		
PDG	III	16 16 07 23.5–.69	38.57N	20.42E	7–1	4.3L,4.0s		
NEIC	III	16 16 07 23.3–.30	38.51N	20.41E	10	4.6b,4.3L		
CSEM	III	16 16 07 24.4–.13	38.47N	20.39E	20	4.6b,4.3L		
THE	III	16 16 07 24.5	38.45N	20.49E	0–1	4.5L,4.3L		
DDA	III	16 16 08 10.7	38.98N	25.02E	5	4.5L,4.3L		

ISC Event type fe.
TIR Error ellipse: s-maj=21.3km s-min=18.9km az=-1.0.
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=157.0.
MOS Error ellipse: s-maj=6.3km s-min=3.0km az=71.5.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.8km az=42.5.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=253.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.2km az=0.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=206.0. Felt at Nydri, Preveza, Sami and Zevgolateion.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.2km az=38.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=256.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**16 16 34 32.4–.20**	**39.28N**	**142.39E**	**33–2**	**3.9**		
								¶602664204

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(656) Southeastern Siberia

ISC	**III**	**16 17 12 38.6–.45**	**56.61N–.02**	**121.59E–.02**	**12–2**	**4.9b,4.8s**	**794**	**0-150**
BJI	III	16 17 12 34.1	56.75N	122.01E	11	5.4s,5.0		**¶16327745**
IDC	III	16 17 12 36.9–.41	56.58N	121.56E	0	4.7,4.6		
YARS	III	16 17 12 36.1–.10	56.64N–.01	121.58E–.01	10	4.7,4.6		
BYKL	III	16 17 12 36.2–.33	56.63N	121.59E	9–4	5.3W,4.6		
MOS	III	16 17 12 37.3–1.1	56.52N	121.47E	16	5.1b,4.6s		
ISCJB	III	16 17 12 37.1–.10	56.61N–.02	121.33E–.02	10	4.8b,4.7s		
NEIC	III	16 17 12 41.0–.55	56.55N	121.39E	26–4	4.9b,4.7s		
GCMT	III	16 17 12 41.0–.20	56.68N	121.57E	16–1	5.1W,4.7s		

ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=7.9km az=151.0.
BYKL Event type se. FELT I=VI-V MSK at Yktali,IV at Ust-Nyukzha,Olekma, III-IV at Larba,) Chilchi,Berkakit, III at Novaya Chara, II at Lopcha). #STATIONS ALE FFC ANMO PET INCN SSE KMI LSA ABKT GNI ARU LVZ KBS. Moment Tensor Solution.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=94.8. Felt (III) at Khani, Chara. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=159.8.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=158.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c60; s96,c180; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.41±.12 $M_{\theta\theta}$3.68±.11; $M_{\phi\phi}$-3.27±.12; $M_{r\theta}$-0.86±.29; $M_{\theta\phi}$3.38±.10; $M_{\phi r}$-0.49±.32; Best double couple: NP1:ϕ_s203.00000°,δ84.00000°,λ172.00000°. NP2:ϕ_s293.00000°,δ82.00000°,λ6.00000°. Principal axes: T 5.2250,Plg10.0000°,Azm158.0000°; N -0.5730,Plg80.0000°,Azm349.0000°; P -4.6470,Plg2.0000°,Azm248.0000° M_o4.93600×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**16 17 14 05.2–1.0**	**36.72N–.03**	**140.56E–.05**	**7–9**		**18**	**0-60**
ISCJB	III	16 17 14 04.2–.85	36.69N–.04	140.68E–.07	13–4	3.5b		**¶602664096**
IDC	III	16 17 14 05.3–5.0	36.52N	140.53E	0	3.6,3.4		
JMA	III	16 17 14 05.0–.10	36.73N	140.58E	2–2	3.6,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.7km az=26.0.
IDC Error ellipse: s-maj=105.5km s-min=27.9km az=25.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 17 19 28.1–.82**	**35.52N–.04**	**140.92E–.06**	**26–5**	**4.7b,4.2s**	**147**	**0-148**
NIED	III	16 17 19 00	35.60N	140.90E	29	4.7W,4.2s		**¶600551042**
MOS	III	16 17 19 27.0–1.1	35.48N	140.84E	33	4.9b,4.2s		
ISCJB	III	16 17 19 27.6–.22	35.53N–.03	140.88E–.04	33	4.6b,4.1s		
JMA	III	16 17 19 27.9–.10	35.63N	140.94E	26–1	4.7,4.1s		
NEIC	III	16 17 19 27.3–2.2	35.52N	140.86E	20–14	4.8b,4.1s		
IDC	III	16 17 19 30.0–1.7	35.48N	140.92E	41–16	4.5,4.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ58.00000°,λ144.00000°. NP2:ϕ_s29.00000°,δ60.00000°,λ38.00000°. M_o1.26000×10^{16}
MOS Error ellipse: s-maj=9.8km s-min=6.7km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.9km az=6.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=111.0. Felt at Oyama.
IDC Error ellipse: s-maj=13.2km s-min=9.6km az=91.0.

(470) Southern Ontario

ISC	**III**	**16 17 36 54.8–.99**	**45.62N–.02**	**74.57W–.02**	**15–7**	**3.8b**	**171**	**0-148**
BJI	III	16 17 36 52.0	45.60N	74.50W	18	4.5		**¶16327748**
NEIC	III	16 17 36 56.0	45.58N	74.55W	13	4.3,4.0b		
OTT	III	16 17 36 56.0–.06	45.58N	74.55W	13–1	4.3,4.0b		
IDC	III	16 17 36 55.9–1.1	45.58N	74.66W	0	4.0,3.8		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hawkesbury; [III] at Alexandria, Casselman, Rockland and Vankleek Hill; [II] at Cornwall, Kanata and Ottawa, Ontario. Felt [III] at Rigaud and Saint-Jerome; [II] at Lachute, Laurentides, Montreal and Saint-Sauveur-des-Monts, Quebec. Felt widely in the Ottawa and Saint Lawrence Valleys as far as Fort Coulonge, Kingston and Shawinigan. Felt [III] at Ogdensburg and [II] at Chateaugay, Massena, Plattsburgh and Potsdam, New York. Felt [II] at Milton, Vermont. Felt in much of northern New York and northern Vermont. Also felt at Hudson, New Hampshire and at West Newfield, Maine. After OTT. Moment Tensor Solution. s10 Moment tensor: Scale 10^{14}Nm; M_{rr}0.91 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-1.00 $M_{r\theta}$-1.11 $M_{\theta\phi}$0.37 $M_{\phi r}$1.13 Best double couple: NP1:ϕ_s186.00000°,δ21.00000°,λ134.00000°. NP2:ϕ_s320.00000°,δ75.00000°,λ75.00000°. Principal axes: T 1.8900,Plg57.0000°,Azm210.0000°; N 0.0000,Plg14.0000°,Azm324.0000°; P -1.8900,Plg28.0000°,Azm62.0000° M_o1.90000×10^{14}
OTT Event type fe. 6km southeast from Hawkesbury, Ontario Felt Western Quebec Seismic Zone.
IDC Error ellipse: s-maj=26.4km s-min=9.8km az=126.0.

(229) Off east coast of Honshu

ISC	**III**	**16 18 12 58.1–.50**	**37.15N–.03**	**142.23E–.03**	**30–3**	**5.0b,4.7s**	**548**	**2-151**
NIED	III	16 18 12 00	37.10N	142.30E	5	5.0W,4.7s		**¶602003154**
JMA	III	16 18 12 53.7–.40	37.12N	142.31E	17	5.2,4.7s		
IDC	III	16 18 12 53.5–.44	37.08N	142.28E	0	4.7,4.7b		
BJI	III	16 18 12 56.7	37.16N	142.02E	28	5.2b,5.0b		
ISCJB	III	16 18 12 56.3–.84	37.21N–.03	142.14E–.02	22–5	5.0b,4.6s		
NEIC	III	16 18 12 57.4–.65	37.12N	142.17E	21–4	5.1b,4.6s		
MOS	III	16 18 12 58.4–1.0	37.32N	142.12E	34	5.3b,4.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ14.00000°,λ24.00000°. NP2:ϕ_s16.00000°,δ84.00000°,λ102.00000°. M_o3.43000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=157.3.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=145.0.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=114.8.

(228) Near east coast of eastern Honshu

JMA	**III**	**16 18 20 53.0–.20**	**38.11N**	**141.79E**	**44**	**4.0**		
								¶602664005

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 18 29 00.3–2.4**	**38.77N–.07**	**142.4E–.10**	**49–20**	**3.9b**	**23**	**1-63**
ISCJB	III	16 18 28 58.9–1.4	38.74N–.05	142.4E–.10	55–10	3.8b		**¶17196505**
JMA	III	16 18 28 59.6–.20	38.75N	142.37E	39–3	4.1		
IDC	III	16 18 29 03.7–3.3	38.69N	142.37E	83–28	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=7.5km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.3km s-min=17.9km az=80.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 18 36 32.0–1.6**	**39.78N–.07**	**142.55E–.09**	**48–13**	**4.2b**	**54**	**1-90**
NIED	III	16 18 36 00	39.80N	142.70E	26	4.1W		**¶602663976**
JMA	III	16 18 36 28.4–.20	39.79N	142.70E	23–2	4.4		
NEIC	III	16 18 36 29.9–.64	39.72N	142.83E	35	4.4b		
ISCJB	III	16 18 36 29.7–.97	39.75N–.05	142.69E–.08	47–6	4.2b,3.8s		
IDC	III	16 18 36 32.7–2.6	39.70N	142.73E	62–22	4.1,4.0L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ33.00000°,λ171.00000°. NP2:ϕ_s353.00000°,δ85.00000°,λ57.00000°. M_o1.77000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=7.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.2km az=20.9.
IDC Error ellipse: s-maj=20.9km s-min=12.4km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 18 38 50.7–1.3**	**36.85N–.05**	**140.71E–.05**	**10–10**	**3.9b**	**19**	**0-57**
IDC	III	16 18 38 49.0–1.4	36.81N	140.87E	0	4.0,4.0L		**¶17196510**
JMA	III	16 18 38 51.5	36.90N	140.72E	12–1	4.0,4.0L		

ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=24.9km az=148.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ65.00000°,λ-145.00000°. NP2:ϕ_s50.00000°,δ58.00000°,λ-30.00000°. Principal axes: T Plg4.0000°,Azm282.0000°; N Plg48.0000°,Azm188.0000°; P Plg42.0000°,Azm16.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**16 18 48 04.8–.78**	**37.62N–.05**	**142.03E–.07**	**24**	**3.8b**	**28**	**1-91**
NIED	III	16 18 48 00	37.70N	141.80E	50	3.9W		**¶17196511**
ISCJB	III	16 18 48 03.2–.59	37.62N–.05	142.09E–.06	24	3.6b		
JMA	III	16 18 48 08.8–.10	37.67N	141.77E	37–3	4.1		
IDC	III	16 18 48 08.2–2.7	37.56N	141.92E	54–25	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ36.00000°,λ94.00000°. NP2:ϕ_s198.00000°,δ54.00000°,λ87.00000°. M_o8.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.1km az=140.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=13.8km az=85.0.

(227) Eastern Honshu

ISC	**III**	**16 18 56 23.2–.95**	**37.18N–.05**	**140.83E–.05**	**13–6**	**4.2b**	**39**	**0-147**
NIED	III	16 18 56 00	37.20N	141.00E	5	4.1W		**¶602443636**
ISCJB	III	16 18 56 20.7–.97	37.25N–.04	141.05E–.05	4–6	4.1b		
JMA	III	16 18 56 22.6	37.22N	140.93E	6–1	4.4		
NEIC	III	16 18 56 28.9–1.1	37.18N	140.85E	57–10	4.2b		
IDC	III	16 18 56 28.4–2.5	37.21N	140.86E	52–23	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ43.00000°,λ-85.00000°. NP2:ϕ_s281.00000°,δ47.00000°,λ-94.00000°. M_o1.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.2km az=154.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s292.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s132.00000°,δ39.00000°,λ-74.00000°. Principal axes: T Plg7.0000°,Azm31.0000°; N Plg10.0000°,Azm300.0000°; P Plg78.0000°,Azm154.0000°
NEIC Event type fe. Error ellipse: s-maj=10.8km s-min=8.3km az=65.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=18.0km s-min=14.8km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**16 19 00 35.4–.43**	**37.67N–.05**	**141.65E–.05**	**60**	**4.5b,3.4s**	**128**	**1-151**
NIED	III	16 19 00 00	37.60N	141.60E	44	4.4W,3.4s		**¶600551184**
MOS	III	16 19 00 30.9–1.0	37.70N	141.67E	33	5.0b,3.4s		
NEIC	III	16 19 00 32.8–.30	37.66N	141.73E	35	4.6b,3.4s		
ISCJB	III	16 19 00 33.5–.30	37.64N–.03	141.62E–.04	60	4.5b,3.3s		
JMA	III	16 19 00 34.8–.10	37.65N	141.57E	45–3	4.5,3.3s		
IDC	III	16 19 00 34.5–1.5	37.64N	141.60E	50–15	4.4,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ30.00000°,λ91.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ89.00000°. M_o5.25000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.5km az=96.3.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=135.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=44.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=9.9km az=97.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**16 19 12 34.7–.10**	**37.43N**	**141.22E**	**28–1**	**3.5**		
								¶602664506

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(98) Trinidad

ISC	**III**	**16 19 19 03.0–.89**	**10.30N–.05**	**60.60W–.06**	**61–7**	**4.5b**	**151**	**0-163**
IDC	III	16 19 18 54.8–.43	10.18N	60.51W	0	4.6,4.6L		**¶16440422**
NEIC	III	16 19 19 00.5–.78	10.14N	60.50W	40–7	4.6b,4.5		
FUNV	III	16 19 19 00.5	10.15N	60.35W	57	4.3W,4.5		
ISCJB	III	16 19 19 01.5–.59	10.34N–.03	60.68W–.04	58–5	4.4b,3.7s		
TRN	III	16 19 19 04.7	10.51N	60.57W	48	4.5,3.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=14.2km s-min=12.4km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=100.0. Felt [II] on Trinidad.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.6km az=41.0.
TRN Event type fe. Felt Trinidad MMI II and III.

(229) Off east coast of Honshu

ISC	**III**	**16 19 35 02.3–.63**	**37.64N–.04**	**142.07E–.04**	**27–4**	**5.0b,4.3s**	**454**	**1-151**
IDC	III	16 19 34 58.0–.43	37.61N	142.09E	0	4.7,4.6		**¶600551263**
JMA	III	16 19 35 00.7–.30	37.60N	142.01E	18–4	4.9,4.6		
ISCJB	III	16 19 35 00.1–.96	37.63N–.02	141.96E–.03	19–6	4.9b,4.2s		
NIED	III	16 19 35 00	37.60N	142.00E	8	4.7W,4.2s		
BJI	III	16 19 35 01.6	37.60N	142.00E	25	5.0b,4.7b		
MOS	III	16 19 35 02.6–.88	37.80N	141.92E	33	5.1b,4.7b		
NEIC	III	16 19 35 04.0–.56	37.65N	141.92E	36–5	4.9b,4.7b		

ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.2km az=121.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=145.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ40.00000°,λ-113.00000°. NP2:ϕ_s184.00000°,δ54.00000°,λ-72.00000°. M_o1.23000×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=4.7km az=112.2.

NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=139.0.
(229) Off east coast of Honshu
ISC III 16 20 05 04.5–2.0 39.62N–.07 143.04E–.06 12–11 4.4b,3.8s 66 1-88
NIED III 16 20 05 00 39.70N 143.00E 20 4.4W,3.8s **¶602663852**
IDC III 16 20 05 02.6–.63 39.58N 142.91E 0 4.3,4.2
JMA III 16 20 05 04.3–.30 39.74N 143.05E 0 4.7,4.2
ISCJB III 16 20 05 04.3–2.0 39.63N–.06 143.19E–.06 26–13 4.3b,3.7s
NEIC III 16 20 05 06.2–3.5 39.62N 143.01E 23–23 4.6b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ13.00000°,λ87.00000°. NP2:ϕ_s20.00000°,δ77.00000°,λ91.00000°. M_o4.34000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=13.4km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.9km az=165.3.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.2km az=139.0.
(228) Near east coast of eastern Honshu
JMA III 16 20 13 38.3–.10 39.33N 142.08E 47–2 3.5
¶602663839
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 20 25 39.2–1.4 38.04N–.05 141.70E–.09 55–12 3.8b 41 1-146
ISCJB III 16 20 25 37.5–.95 38.02N–.04 141.72E–.09 57–8 3.9b **¶600551396**
JMA III 16 20 25 38.3–.10 38.04N 141.67E 51–3 4.0
IDC III 16 20 25 40.2–2.0 37.99N 141.67E 67–19 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.7km az=12.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=12.1km az=89.0.
(229) Off east coast of Honshu
ISC III 16 20 44 42.9–.44 37.39N–.04 143.69E–.03 23–2 5.2b,5.1s 606 2-153
NIED III 16 20 44 00 37.40N 143.60E 5 5.1W,5.1s **¶17196529**
IDC III 16 20 44 39.0–.39 37.31N 143.76E 0 4.9,4.8
BJI III 16 20 44 40.2 37.53N 143.46E 8 5.4b,5.2s
ISCJB III 16 20 44 40.6–.78 37.41N–.02 143.59E–.02 13–4 5.1b,5.0s
NEIC III 16 20 44 41.2–1.8 37.34N 143.64E 10–11 5.3b,5.0s
GCMT III 16 20 44 41.2–.20 37.41N 143.79E 12 5.1W,5.0s
JMA III 16 20 44 42.6–.50 37.37N 143.62E 47 5.2,5.0s
MOS III 16 20 44 44.8–.95 37.70N 143.62E 33 5.5b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ35.00000°,λ-99.00000°. NP2:ϕ_s201.00000°,δ55.00000°,λ-84.00000°. M_o5.84000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=9.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=160.6.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=135.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c66; s114,c205; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.45±.10 $M_{\theta\theta}$0.95±.10; $M_{\phi\phi}$5.50±.09; $M_{r\theta}$-0.17±.33; $M_{\theta\phi}$2.15±.08; $M_{\theta r}$-0.00±.33; Best double couple: NP1:ϕ_s23.00000°,δ45.00000°,λ-88.00000°. NP2:ϕ_s200.00000°,δ45.00000°,λ-92.00000°. Principal axes: T 6.3560,Plg0.0000°,Azm112.0000°; N 0.1020,Plg1.0000°,Azm202.0000°; P -6.4540,Plg89.0000°,Azm10.0000° M_o6.40500×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=102.0.
(229) Off east coast of Honshu
JMA III 16 20 45 57.0–.20 36.89N 142.35E 20 4.9
¶602663768
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 20 51 22.0–.75 38.12N–.05 142.15E–.06 14 3.7b 27 1-146
ISCJB III 16 20 51 21.1–.60 38.26N–.04 142.35E–.06 14 3.7b **¶17196533**
JMA III 16 20 51 23.9–.30 38.29N 142.24E 34 4.2
IDC III 16 20 51 29.5–2.6 38.19N 142.29E 72–24 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.0km az=34.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=23.6km s-min=16.3km az=86.0.
(249) Luzon
MAN III 16 21 00 31 12.46N 123.62E 9 4.8b,3.7L
¶601668730
MAN Event type fe. INTENSITY III - MASBATE MASBATE.
(228) Near east coast of eastern Honshu
ISC III 16 21 16 13.0–.98 36.87N–.03 140.69E–.05 14–6 4.0b 50 0-83
IDC III 16 21 16 10.7–.82 36.86N 140.77E 0 4.0L,3.9 **¶602443641**
ISCJB III 16 21 16 12.1–.64 36.86N–.03 140.81E–.05 22–3 4.1b,3.9
JMA III 16 21 16 13.4 36.88N 140.71E 12–1 3.9,3.9
NEIC III 16 21 16 18.6–1.4 36.86N 140.61E 59–12 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=18.9km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.6km az=14.1.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=7.0km az=73.0.
(228) Near east coast of eastern Honshu
JMA III 16 21 17 23.5–.10 36.80N 141.14E 34–1 3.8
¶602663715
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 16 21 32 41.5–.53 37.85N–.06 142.73E–.06 14 4.5b 94 2-145
NIED III 16 21 32 00 37.90N 142.60E 23 4.3W **¶16461845**
IDC III 16 21 32 39.8–.78 37.89N 142.62E 0 4.3,4.1
JMA III 16 21 32 40.7–.30 37.90N 142.58E 7 4.5,4.1
ISCJB III 16 21 32 40.3–.38 37.91N–.05 142.72E–.04 14 4.3b,3.5s
NEIC III 16 21 32 42.2–3.1 37.97N 142.66E 14–19 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ27.00000°,λ-124.00000°. NP2:ϕ_s196.00000°,δ67.00000°,λ-74.00000°. M_o2.95000×10^{15}
IDC Error ellipse: s-maj=20.7km s-min=14.3km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=162.9.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.6km az=140.0.
(267) Halmahera
ISC III 16 21 35 56.8–.38 2.26N–.04 128.41E–.06 92 4.6b 153 3-125
ISCJB III 16 21 35 55.3–.24 2.27N–.03 128.42E–.03 92 4.5b **¶16461824**
NEIC III 16 21 35 57.2–.76 2.23N 128.40E 99–7 4.7b
IDC III 16 21 35 57.9–2.1 2.24N 128.44E 104–18 4.4,4.2
DJA III 16 21 35 58.5–.40 2N–3.0 128E–2.0 66–4 5.2b,5.0
MAN III 16 21 36 49 5.60N 126.03E 14 4.8b,3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=169.6.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=67.0. Felt [III] at Morotai.
IDC Error ellipse: s-maj=21.7km s-min=9.8km az=78.0.
(228) Near east coast of eastern Honshu
JMA III 16 21 47 39.8 36.38N 141.16E 25–1 3.7
¶603049865
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 16 22 05 06.1–.46 36.03N–.05 141.01E–.07 31 4.8b 84 0-147
IDC III 16 22 05 01.0–.85 36.00N 141.12E 0 4.7,4.5 **¶16478683**
NEIC III 16 22 05 03.4–4.7 36.02N 140.96E 13–29 4.9b,4.5
ISCJB III 16 22 05 04.3–.34 36.06N–.04 141.06E–.05 31 4.7b,3.8s
JMA III 16 22 05 04.9–.10 36.06N 141.06E 40–1 4.5,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=17.6km az=11.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=8.8km az=88.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.8km az=2.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 22 13 53.8–1.4 36.74N–.06 140.71E–.09 9–8 3.5b 13 0-57
ISCJB III 16 22 13 52.8–1.4 36.65N–.07 140.78E–.10 15–5 3.3b **¶600551580**
IDC III 16 22 13 52.5–1.9 36.66N 140.71E 0 3.5,3.4
JMA III 16 22 13 54.7 36.75N 140.58E 3–1 2.9,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=8.2km az=41.0.
IDC Error ellipse: s-maj=39.6km s-min=27.2km az=56.0.
JMA Event type fe.
(229) Off east coast of Honshu
ISC III 16 22 28 20.4–.43 37.86N–.06 143.64E–.06 19 4.7b 204 2-148
NIED III 16 22 28 00 38.00N 143.50E 5 4.4W **¶16478693**
IDC III 16 22 28 17.2–.52 37.86N 143.71E 0 4.6,4.5
ISCJB III 16 22 28 18.9–.22 37.88N–.03 143.61E–.03 19 4.6b,4.5
NEIC III 16 22 28 20.9–1.8 37.87N 143.69E 21–12 4.8b,4.5
JMA III 16 22 28 20.1–.40 37.96N 143.50E 23 4.4,4.5
MOS III 16 22 28 20.2–1.0 37.89N 143.70E 29 4.9b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ27.00000°,λ-94.00000°. NP2:ϕ_s214.00000°,δ63.00000°,λ-88.00000°. M_o4.58000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=158.6.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=144.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.7km az=100.6.
(135) Near coast of central Chile
ISC III 16 22 36 17.4–.59 32.57S–.03 71.59W–.04 34–2 5.5b,5.3s 919 1-176
IDC III 16 22 36 12.0–.42 32.52S 71.58W 0 5.2,5.1L **¶16329748**
SJA III 16 22 36 12.9–1.2 32.69S 71.89W 17–13 5.7L,5.3W
BJI III 16 22 36 14.8 32.10S 71.54W 25 5.8s,5.5
NEIC III 16 22 36 16.0 32.56S 71.73W 33 5.6L,5.5b
GCMT III 16 22 36 16.0–.10 32.57S 71.89W 37–0 5.5W,5.5b
GUC III 16 22 36 16.1–.71 32.56S 71.73W 33–6 5.6L,5.5b
MOS III 16 22 36 16.3–1.0 32.54S 71.53W 33 5.6b,5.5s
ISCJB III 16 22 36 17.5–.46 32.52S–.02 71.61W–.05 48–4 5.4b,5.3s
ISC Event type fe.
NEIC Event type fe. Felt [V] at Cabildo, Hijuelas, La Ligua, Papudo, Petorca, Puchuncavi and Zapallar; [IV] at Concon, Putaendo, Quillota, Quilpue, Quintero, Rancagua, San Felipe, Talagante, Tiltil, Valparaiso, Villa Alemana and Vina del Mar. Felt in much of central Chile as far as La Serena and Rengo. Felt [II] at Mendoza, Argentina. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c168; s104,c158;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.69±.03 $M_{\theta\theta}$0.13±.03; $M_{\phi\phi}$-1.82±.03; $M_{r\theta}$0.13±.03; $M_{\theta\phi}$-0.23±.02; $M_{\theta r}$-1.29±.04; Best double couple: NP1:ϕ_s179.00000°,δ63.00000°,λ83.00000°. NP2:ϕ_s15.00000°,δ28.00000°,λ105.00000°. Principal axes: T 2.1320,Plg71.0000°,Azm73.0000°; N 0.1280,Plg7.0000°,Azm182.0000°; P -2.2570,Plg18.0000°,Azm275.0000° M_o2.19500×10^{17}
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 16 22 48 25.0–.61 37.03N–.05 141.87E–.05 26–3 4.4b 63 1-146
NIED III 16 22 48 00 37.10N 141.70E 29 4.1W **¶600551637**
ISCJB III 16 22 48 25.6–.92 36.96N–.04 141.83E–.07 46–8 4.4b
JMA III 16 22 48 26.5–.20 37.10N 141.73E 39–3 4.4
NEIC III 16 22 48 26.4–.29 36.96N 141.92E 35 4.7b
IDC III 16 22 48 26.6–.74 36.97N 141.85E 38–6 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ21.00000°,λ109.00000°. NP2:ϕ_s201.00000°,δ71.00000°,λ83.00000°. M_o1.81000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.9km az=6.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=145.0.
IDC Error ellipse: s-maj=20.5km s-min=14.3km az=118.0.
(228) Near east coast of eastern Honshu
ISC III 16 22 53 06.3–2.7 36.31N–.04 141.83E–.06 27–18 4.5b 105 1-147
NIED III 16 22 53 00 36.40N 141.80E 23 4.4W **¶602663557**
IDC III 16 22 53 02.1–.49 36.29N 141.85E 0 4.4,4.3
JMA III 16 22 53 06.1–.20 36.38N 141.79E 62–5 4.5,4.3
ISCJB III 16 22 53 06.9–.79 36.25N–.03 141.75E–.06 44–7 4.5s,4.5b
NEIC III 16 22 53 08.3–.87 36.28N 141.78E 41–8 4.7b,4.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ43.00000°,λ-68.00000°. NP2:ϕ_s210.00000°,δ51.00000°,λ-109.00000°. M_o4.44000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.4km az=175.3.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.0km az=94.0.
(228) Near east coast of eastern Honshu
ISC III 16 23 03 13.8–.48 38.61N–.05 142.16E–.07 41 4.6b 113 1-145
NIED III 16 23 03 00 38.60N 142.20E 41 4.3W **¶16461827**
IDC III 16 23 03 07.8–.58 38.65N 142.09E 0 4.4,4.3
ISCJB III 16 23 03 12.1–.28 38.63N–.04 142.19E–.04 41 4.8s,4.5b
JMA III 16 23 03 13.6–.20 38.65N 142.15E 41–3 4.3,4.5b
NEIC III 16 23 03 13.5–.25 38.69N 142.10E 35 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ101.00000°. M_o2.73000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=14.5km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=140.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.6km az=145.0.
(228) Near east coast of eastern Honshu
ISC III 16 23 11 41.5–.57 36.61N–.07 141.63E–.06 26 4.5b 86 1-147
IDC III 16 23 11 36.6–.74 36.44N 141.73E 0 4.2,4.1 **¶602663523**
ISCJB III 16 23 11 39.9–.39 36.63N–.05 141.81E–.05 26 4.5s,4.3b
JMA III 16 23 11 40.3–.40 36.70N 141.89E 36 4.4,4.3b
NEIC III 16 23 11 42.2–.30 36.48N 141.65E 35 4.7b,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=18.1km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=163.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.9km az=156.0.
(227) Eastern Honshu
JMA III 16 23 11 53.0 36.72N 138.49E 6–3 3.3
¶602663519
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s307.00000°,δ53.00000°,λ-106.00000°. NP2: ϕ_s154.00000°,δ40.00000°,λ-69.00000°. Principal axes: T Plg7.0000°,Azm49.0000°; N Plg13.0000°,Azm317.0000°; P Plg75.0000°,Azm167.0000°
(228) Near east coast of eastern Honshu
ISC III 16 23 28 19.2–2.2 36.18N–.08 140.89E–.09 32–13 3.7b 18 1-60
NIED III 16 23 28 00 36.10N 141.00E 35 3.9W **¶600551715**
IDC III 16 23 28 09.6–2.1 36.95N 141.81E 0 3.8L,3.7
JMA III 16 23 28 19.3–.10 36.14N 141.00E 38–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ47.00000°,λ-51.00000°. NP2:ϕ_s167.00000°,δ56.00000°,λ-124.00000°. M_o7.32000×10^{14}
IDC Error ellipse: s-maj=62.5km s-min=22.6km az=63.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 16 23 30 18.7–.10 37.33N 141.50E 44–3 3.6
¶602663479
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 16 23 38 18.9–.29 39.16N–.03 142.66E–.03 26–1 5.7b,5.2s 1677 1-161
NIED III 16 23 38 00 39.20N 142.70E 26 5.3W,5.2s **¶16329751**
BJI III 16 23 38 16.1 39.08N 142.68E 26 5.4b,5.2b
JMA III 16 23 38 17.5–.20 39.16N 142.73E 22–2 5.5,5.2b
ISCJB III 16 23 38 18.2–.68 39.10N–.02 142.61E–.02 30–4 5.6b,5.2s
MOS III 16 23 38 18.3–.87 39.28N 142.62E 27 5.8b,5.2s
GCMT III 16 23 38 20.4–.20 39.29N 142.69E 30–0 5.3W,5.2s
NEIC III 16 23 38 20.4–.25 39.13N 142.53E 35–1 5.7b,5.3W
IDC III 16 23 38 21.7–1.8 39.15N 142.63E 46–16 5.3,5.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ31.00000°,λ-73.00000°. NP2:ϕ_s245.00000°,δ61.00000°,λ-100.00000°. M_o1.02000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=159.1.

MOS Error ellipse: s-maj=5.4km s-min=3.5km az=97.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c145; s100,c182;Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.99±.03 $M_{\theta\theta}$0.86±.02; $M_{\phi\phi}$0.12±.02; $M_{r\theta}$0.35±.02; $M_{\theta\phi}$0.50±.01; $M_{\phi r}$0.42±.03; Best double couple: NP1:ϕ_s232.00000°,δ59.00000°,λ-103.00000°. NP2:ϕ_s75.00000°,δ33.00000°,λ-70.00000°. Principal axes: T 1.2330,Plg13.0000°,Azm331.0000°; N -0.0830,Plg11.0000°,Azm239.0000°; P -1.1490,Plg73.0000°,Azm110.0000° $M_0$1.19100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=139.0. Felt at Misawa. Recorded [3 JMA] in Iwate. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.17 $M_{\theta\theta}$0.53 $M_{\phi\phi}$0.64 $M_{r\theta}$0.26 $M_{\theta\phi}$0.62 $M_{\phi r}$0.30 Best double couple: NP1:ϕ_s43.00000°,δ36.00000°,λ-89.00000°. NP2:ϕ_s222.00000°,δ54.00000°,λ-91.00000°. Principal axes: T 1.2700,Plg9.0000°,Azm312.0000°; N -0.0400,Plg1.0000°,Azm222.0000°; P -1.2300,Plg81.0000°,Azm129.0000° $M_0$1.30000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=7.7km az=90.0.

(135) Near coast of central Chile

ISC	**III**	**16 23 40 23.0–.53**	**32.52S–.04**	**71.61W–.06**	**25**	**4.9b**	**65**	**1-165**
IDC	III	16 23 40 19.1–.75	32.51S	71.65W	0	4.5,4.5b		**¶16349061**
SJA	III	16 23 40 21.5–.69	32.82S	71.83W	28–6	4.6L,3.9W		
ISCJB	III	16 23 40 22.0–.43	32.60S–.03	71.92W–.05	33	4.6b,3.9W		
GUC	III	16 23 40 23.9–.53	32.56S	71.65W	33–7	4.4L,3.9W		
NEIC	III	16 23 40 23.0	32.56S	71.65W	33	5.0b,4.4L		

ISC Event type fe.
IDC Error ellipse: s-maj=29.9km s-min=20.6km az=108.0.
SJA Error ellipse: s-maj=15.3km s-min=9.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=148.4.
GUC Error ellipse: s-maj=9.2km s-min=9.3km az=-1.0.
NEIC Event type fe. Felt [IV] at La Ligua and Zapallar; [III] at La Cruz, Nogales, Puchuncavi, Quillota and Quintero; [II] at Rancagua, Valparaiso and Vina del Mar. After GUC.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 00 16 12.1–.49**	**37.23N–.06**	**141.98E–.09**	**39–4**	**4.5b**	**84**	**1-92**
NIED	III	17 00 16 00	37.30N	141.90E	38	4.2W		**¶600551763**
NEIC	III	17 00 16 12.2–.32	37.24N	141.99E	35	4.8b		
JMA	III	17 00 16 12.5–.20	37.30N	141.85E	38–3	4.3		
ISCJB	III	17 00 16 12.4–.84	37.24N–.04	141.88E–.07	55–7	4.4b,4.4s		
IDC	III	17 00 16 12.4–.58	37.25N	141.93E	35–4	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ-170.00000°. NP2:ϕ_s95.00000°,δ86.00000°,λ-68.00000°. $M_0$1.95000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.9km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.5km az=19.4.
IDC Error ellipse: s-maj=15.1km s-min=12.2km az=95.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 00 23 37.7–1.1**	**36.75N–.03**	**140.61E–.05**	**8–7**	**3.6b**	**21**	**0-91**
ISCJB	III	17 00 23 36.9–.75	36.73N–.04	140.68E–.06	14–4	3.5b		**¶17196574**
IDC	III	17 00 23 36.7–1.3	36.96N	140.56E	0	3.8,3.6		
JMA	III	17 00 23 37.8–.10	36.75N	140.60E	4–3	3.6,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.3km az=21.3.
IDC Error ellipse: s-maj=29.8km s-min=26.4km az=12.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**17 00 42 50.0–.36**	**37.41N–.04**	**143.68E–.04**	**27–2**	**4.9b,4.4s**	**484**	**2-149**
NIED	III	17 00 42 00	37.40N	143.60E	5	4.7W,4.4s		**¶16329752**
ISCJB	III	17 00 42 46.2–.84	37.37N–.02	143.64E–.02	12–5	4.8b,4.5s		
BJI	III	17 00 42 47.5	37.53N	143.76E	26	5.1b,4.8b		
JMA	III	17 00 42 48.6–.30	37.37N	143.62E	55	4.8,4.8b		
MOS	III	17 00 42 49.9–1.0	37.49N	143.64E	34	5.1b,4.8b		
GCMT	III	17 00 42 50.2–.40	37.42N	143.60E	12	4.8W,4.8b		
NEIC	III	17 00 42 50.2–1.5	37.34N	143.68E	29–10	5.0b,4.8b		
IDC	III	17 00 42 51.1–.42	37.32N	143.77E	39–3	4.6,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ39.00000°,λ-88.00000°. NP2:ϕ_s202.00000°,δ51.00000°,λ-91.00000°. $M_0$1.32000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=114.2.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c10; s78,c111; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.03±.07 $M_{\theta\theta}$0.57±.08; $M_{\phi\phi}$1.45±.07; $M_{r\theta}$-0.88±.36; $M_{\theta\phi}$0.71±.06; $M_{\phi r}$0.76±.31; Best double couple: NP1:ϕ_s186.00000°,δ53.00000°,λ-119.00000°. NP2:ϕ_s49.00000°,δ45.00000°,λ-57.00000°. Principal axes: T 1.8630,Plg4.0000°,Azm296.0000°; N 0.6560,Plg23.0000°,Azm204.0000°; P -2.5240,Plg67.0000°,Azm36.0000° $M_0$2.19300×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.4km az=133.0.
IDC Error ellipse: s-maj=11.5km s-min=9.8km az=102.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 00 45 53.8–1.5**	**36.16N–.04**	**141.18E–.06**	**23–10**	**4.4b**	**77**	**1-147**
NIED	III	17 00 45 00	36.20N	141.20E	5	4.1W		**¶602668692**
IDC	III	17 00 45 50.2–.68	36.12N	141.18E	0	4.3,4.1		
JMA	III	17 00 45 52.6–.10	36.16N	141.22E	43–2	4.3,4.1		
ISCJB	III	17 00 45 53.6–.75	36.12N–.04	141.17E–.06	33–6	4.5b,4.1		
NEIC	III	17 00 45 55.3–1.7	36.10N	141.12E	33–11	4.8b,4.1		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ25.00000°,λ-31.00000°. NP2:ϕ_s31.00000°,δ77.00000°,λ-112.00000°. $M_0$1.45000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=17.9km az=39.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=17.4.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=147.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 00 51 08.0–.10**	**37.22N**	**141.03E**	**26–1**	**3.8**		
								¶602668686

JMA Event type fe.

(135) Near coast of central Chile

ISC	**III**	**17 00 55 04.5–.98**	**32.55S–.04**	**71.62W–.06**	**44–8**	**5.0b,4.4s**	**725**	**1-176**
IDC	III	17 00 54 58.2–.47	32.44S	71.60W	0	5.1,5.0b		**¶16339099**
MOS	III	17 00 55 02.6–.95	32.39S	71.51W	33	5.2b,5.0b		
NEIC	III	17 00 55 02.0	32.50S	71.61W	31	5.1b,4.5L		
BJI	III	17 00 55 02.5	32.50S	71.50W	23	5.3s,5.2b		
GUC	III	17 00 55 02.7–.32	32.50S	71.61W	31–1	4.5L,5.2b		
ISCJB	III	17 00 55 03.8–.47	32.47S–.02	71.55W–.05	50–4	5.0b,4.3s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at La Ligua, Papudo and Zapallar; [III] at Coquimbo, La Cruz, La Serena, Navidad, Nogales, Puchuncavi, Quillota, Quintero and Salamanca; [II] at Combarbala, Los Vilos, Rancagua, San Bernardo, Santiago, Tiltil, Valparaiso and Vina del Mar. After GUC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 01 15 16.8–.10**	**37.41N**	**141.50E**	**40–2**	**3.8**		
								¶602668633

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 01 19 06.0–2.1**	**37.46N–.07**	**141.72E–.07**	**8–12**	**3.8b**	**25**	**1-75**
JMA	III	17 01 19 04.0–.20	37.59N	141.89E	4–3	4.4		**¶600551873**
IDC	III	17 01 19 04.1–.85	37.38N	141.77E	0	4.0,3.7		
ISCJB	III	17 01 19 06.2–1.7	37.50N–.05	141.86E–.06	27–11	3.8b,3.7		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 02 30 41.4–.77**	**38.60N–.09**	**141.98E–.08**	**41**	**3.9b**	**26**	**1-89**
NIED	III	17 02 30 00	38.60N	141.90E	56	4.1W		**¶602668899**
ISCJB	III	17 02 30 39.5–.60	38.57N–.07	142.04E–.07	41	3.8b		
JMA	III	17 02 30 41.7–.10	38.62N	141.89E	52–1	4.0		
IDC	III	17 02 30 45.1–2.6	38.58N	141.72E	78–23	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ10.00000°,λ-5.00000°. NP2:ϕ_s224.00000°,δ89.00000°,λ-100.00000°. $M_0$1.56000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=7.0km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=14.5km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 02 36 32.5–2.1**	**36.17N–.06**	**140.92E–.08**	**20–7**	**3.6b**	**14**	**0-60**
IDC	III	17 02 36 22.7–2.9	36.93N	141.97E	0	3.7,3.5b		**¶600552089**
JMA	III	17 02 36 32.8–.10	36.07N	141.06E	38–1	3.3,3.5b		
ISCJB	III	17 02 36 32.4–1.2	36.09N–.05	141.1E–.10	37–13	3.5b,3.5b		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 02 43 42.6–1.3**	**35.61N–.06**	**141.10E–.09**	**33**	**3.5b**	**14**	**0-56**
IDC	III	17 02 43 39.1–1.5	35.36N	141.00E	0	3.7,3.5b		**¶17196605**
ISCJB	III	17 02 43 42.5–.96	35.61N–.06	141.08E–.09	33	3.6b,3.5b		
JMA	III	17 02 43 43.3–.20	35.62N	140.97E	26–1	3.5,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=37.7km s-min=30.1km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.6km az=169.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 02 46 57.4–.10**	**37.23N**	**141.40E**	**41–2**	**4.1**		
								¶602668865

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(186) Vanuatu Islands

ISC	**III**	**17 02 48 01.9–.42**	**17.24S–.04**	**167.76E–.03**	**28–2**	**6.1s,5.6b**	**975**	**10-167**
BJI	III	17 02 47 58.0	17.30S	167.70E	15	6.1s,6.0b		**¶16461880**
NEIC	III	17 02 47 59.0–.00	17.14S	167.74E	15	6.1s,6.0b		
NEIC	III	17 02 48 00.0–.12	17.28S	167.83E	17	6.3W,6.2W		
GCMT	III	17 02 48 00.0–.10	17.32S	167.64E	22–0	6.2W,6.2W		
ISCJB	III	17 02 48 01.6–1.1	17.26S–.02	167.75E–.02	33–7	6.1s,5.5b		
IDC	III	17 02 48 01.8–1.5	17.29S	167.71E	25–9	5.9,5.9s		
MOS	III	17 02 48 02.2–1.2	17.20S	167.68E	37	6.1s,5.8b		
NEIC	III	17 02 48 20.5–.00	16.83S	167.34E	30	6.1s,5.8b		

ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}2.13 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$-2.05 $M_{r\theta}$0.75 $M_{\theta\phi}$0.38 $M_{\phi r}$-1.68 Best double couple: NP1:ϕ_s161.00000°,δ65.00000°,λ83.00000°. NP2:ϕ_s358.00000°,δ25.00000°,λ105.00000°. Principal axes: T 2.8400,Plg68.0000°,Azm56.0000°; N -0.0500,Plg6.0000°,Azm163.0000°; P -2.7900,Plg20.0000°,Azm256.0000° $M_0$2.80000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.9km az=125.0. Felt [IV] at Port-Vila. Also felt at Luganville. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$4.90000×10^{18} Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}1.55 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-1.66 $M_{r\theta}$0.21 $M_{\theta\phi}$0.36 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s167.00000°,δ59.00000°,λ88.00000°. NP2:ϕ_s351.00000°,δ31.00000°,λ93.00000°. Principal axes: T 1.7600,Plg76.0000°,Azm72.0000°; N 0.1800,Plg1.0000°,Azm168.0000°; P -1.9400,Plg14.0000°,Azm259.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s165.00000°,δ70.00000°,λ90.00000°. Principal axes: T Plg65.0000°,Azm75.0000°; N Plg0.0000°,Azm0.0000°; P Plg25.0000°,Azm255.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c346; s144,c523;Duration: 3$s1 Moment tensor: Scale 10^{18}Nm; M_{rr}2.10±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$-2.15±.01; $M_{r\theta}$0.44±.02; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$-1.41±.02; Best double couple: NP1:ϕ_s166.00000°,δ62.00000°,λ86.00000°. NP2:ϕ_s354.00000°,δ28.00000°,λ98.00000°. Principal axes: T 2.5620,Plg73.0000°,Azm66.0000°; N 0.1100,Plg4.0000°,Azm168.0000°; P -2.6730,Plg17.0000°,Azm259.0000° $M_0$2.61800×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=31.2.
IDC Error ellipse: s-maj=8.7km s-min=7.6km az=43.0.
MOS Error ellipse: s-maj=7.4km s-min=6.8km az=43.4.
NEIC Event type se. Moment Tensor Solution. s81 Moment tensor: Scale 10^{18}Nm; M_{rr}2.51 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$-2.41 $M_{r\theta}$0.59 $M_{\theta\phi}$0.33 $M_{\phi r}$-1.63 Best double couple: NP1:ϕ_s165.00000°,δ62.00000°,λ84.00000°. NP2:ϕ_s358.00000°,δ28.00000°,λ101.00000°. Principal axes: T 3.0700,Plg72.0000°,Azm61.0000°; N -0.0900,Plg5.0000°,Azm168.0000°; P -2.9900,Plg17.0000°,Azm260.0000° $M_0$3.00000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 02 48 37.0–1.5**	**39.73N–.07**	**142.62E–.08**	**46–12**	**4.6b**	**91**	**1-116**
NIED	III	17 02 48 00	39.70N	142.70E	20	4.5W		**¶602668863**
JMA	III	17 02 48 33.3–.30	39.71N	142.69E	17–2	4.7		
ISCJB	III	17 02 48 35.3–.88	39.73N–.04	142.67E–.07	47–6	4.5b		
IDC	III	17 02 48 38.4–2.3	39.71N	142.67E	60–20	4.3,4.2		
NEIC	III	17 02 48 38.0–.71	39.72N	142.65E	57–5	4.7b,4.2		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ22.00000°,λ163.00000°. NP2:ϕ_s20.00000°,δ84.00000°,λ69.00000°. $M_0$5.61000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.0km az=34.0.
IDC Error ellipse: s-maj=18.9km s-min=14.5km az=146.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.7km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 02 50 27.7–.43**	**39.33N–.05**	**142.50E–.06**	**29**	**4.5b**	**96**	**1-149**
NIED	III	17 02 50 00	39.30N	142.50E	26	4.5W		**¶16340053**
JMA	III	17 02 50 25.8–.20	39.28N	142.50E	25–2	4.6		
ISCJB	III	17 02 50 26.0–.30	39.26N–.03	142.53E–.04	29	4.5b		
IDC	III	17 02 50 30.4–2.3	39.24N	142.48E	54–20	4.4,4.2		
NEIC	III	17 02 50 31.0–.74	39.22N	142.45E	61–6	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ37.00000°,λ-123.00000°. NP2:ϕ_s213.00000°,δ60.00000°,λ-67.00000°. $M_0$7.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.5km az=44.7.
IDC Error ellipse: s-maj=13.5km s-min=10.3km az=87.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=119.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 03 11 33.5–.20**	**38.37N**	**142.03E**	**37–3**	**3.8**		
								¶602668822

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(135) Near coast of central Chile

ISC	**III**	**17 03 16 42.5–1.5**	**32.71S–.04**	**71.79W–.06**	**32–10**	**4.2b**	**52**	**1-156**
IDC	III	17 03 16 38.2–1.0	32.53S	71.60W	0	5.0s,4.9		**¶16427642**
ISCJB	III	17 03 16 39.8–1.3	32.69S–.03	71.97W–.06	24–9	4.9s,4.0b		
NEIC	III	17 03 16 42.0	32.54S	71.56W	15	3.9b,3.8L		
GUC	III	17 03 16 42.9–.41	32.52S	71.52W	14–1	3.8L,3.8L		

ISC Event type fe.
IDC Error ellipse: s-maj=29.8km s-min=29.5km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.0km az=159.8.
NEIC Event type fe. Felt [III] at Quilpue, Quintero, Valparaiso, Villa Alemana and Vina del Mar; [II] at Quillota, San Bernardo, San Felipe and Tiltil. After GUC.
GUC Error ellipse: s-maj=0.9km s-min=2.7km az=-1.0.

(135) Near coast of central Chile

ISC	**III**	**17 03 23 50.9–1.8**	**32.59S–.04**	**71.91W–.06**	**14–10**	**4.3b**	**48**	**1-156**
IDC	III	17 03 23 48.6–.84	32.64S	71.72W	0	5.0,5.0s		**¶16427644**
SJA	III	17 03 23 49.1–1.7	33.02S	72.01W	28–13	4.3L,3.6W		
NEIC	III	17 03 23 53.0	32.58S	71.63W	12	4.3b,4.0L		
GUC	III	17 03 23 53.9–.37	32.58S	71.63W	12–2	4.0L,4.0L		

ISC Event type fe.
IDC Error ellipse: s-maj=28.9km s-min=22.3km az=123.0.
SJA Error ellipse: s-maj=34.1km s-min=14.6km az=-1.0.
NEIC Event type fe. Felt [III] at Quillota and Quintero; [II] at Concon, La Ligua, Puchuncavi, Quilpue, Valparaiso, Villa Alemana and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=6.7km s-min=5.1km az=-1.0.

(135) Near coast of central Chile

ISC	**III**	**17 03 34 20.0–1.9**	**32.60S–.05**	**71.92W–.07**	**2–11**		**38**	**1-69**
SJA	III	17 03 34 17.9–1.6	32.62S	72.05W	8–58	3.9L,3.2W		**¶16427645**
IDC	III	17 03 34 20.9–1.8	32.52S	71.89W	0	3.9,3.9L		
NEIC	III	17 03 34 24.0	32.64S	71.69W	12	3.7L,3.9L		
GUC	III	17 03 34 24.3–.27	32.64S	71.69W	12–1	3.7L,3.9L		

ISC Event type fe.
SJA Error ellipse: s-maj=36.2km s-min=70.6km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=33.5km az=87.0.

NEIC Event type fe. Felt [III] at Quintero and [II] at La Ligua, Valparaiso and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=4.3km s-min=3.2km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**17 03 43 55.1–.45**	**38.17N–.05**	**142.73E–.05**	**14**	**4.5b**	**111**	**2-145**
IDC	III	17 03 43 52.6–.53	38.15N	142.83E	0	4.4,4.3		**¶600552213**
ISCJB	III	17 03 43 53.4–.27	38.18N–.03	142.72E–.04	14	4.4b,4.3		
JMA	III	17 03 43 56.6–.40	38.26N	142.52E	21	4.5,4.3		
NEIC	III	17 03 43 58.1–.77	38.19N	142.75E	36–7	4.5b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.3km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=145.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.3km az=134.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**17 03 55 43.2–.10**	**37.43N**	**141.27E**	**26–1**	**3.8**	

¶602668534

JMA Event type fe.
(230) Near south coast of eastern Honshu

ISC	**III**	**17 04 10 10.3–1.4**	**35.49N–.04**	**139.89E–.05**	**27–12**		**25**	**0-55**
IDC	III	17 04 10 08.0–2.1	35.12N	139.48E	0	3.7,3.4		**¶600552227**
ISCJB	III	17 04 10 10.9–.65	35.47N–.04	139.92E–.06	44–8	3.5b,3.4		
JMA	III	17 04 10 11.4–.10	35.54N	139.89E	23–2	3.2,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=46.8km s-min=23.4km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.8km az=156.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s93.00000°,δ60.00000°,λ-103.00000°. NP2: ϕ_s298.00000°,δ33.00000°,λ-69.00000°. Principal axes: T Plg14.0000°,Azm193.0000° ; N Plg11.0000°,Azm100.0000°; P Plg72.0000°,Azm332.0000°
(228) Near east coast of eastern Honshu

ISC	**III**	**17 04 13 57.6–.27**	**40.17N–.03**	**142.38E–.03**	**38–1**	**5.8s,5.7b**	**1677**	**1-159**
NIED	III	17 04 13 00	40.10N	142.40E	41	6.1W,5.7b		**¶602668515**
BJI	III	17 04 13 50.8	40.07N	142.69E	25	5.9,5.9b		
NEIC	III	17 04 13 56.8–.10	40.14N	142.17E	29	6.2W,6.1W		
IDC	III	17 04 13 57.0–2.9	40.12N	142.38E	34–21	5.8,5.8s		
MOS	III	17 04 13 56.4–.89	40.28N	142.25E	33	6.0b,5.9s		
GCMT	III	17 04 13 56.8–.10	40.17N	142.55E	41–0	6.1W,5.9s		
JMA	III	17 04 13 57.3–.10	40.13N	142.41E	31–1	5.9,5.9s		
ISCJB	III	17 04 13 57.5–.35	40.15N–.02	142.30E–.02	49–3	5.8s,5.7b		
NEIC	III	17 04 13 58.0–.00	40.20N	142.24E	35	5.8s,5.7b		
NEIC	III	17 04 14 15.2–.00	40.32N	143.23E	44	5.8s,5.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ20.00000°,λ63.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ99.00000°. $M_0$1.52000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=144.0. Felt [III] at Misawa. Recorded [4 JMA] in Aomori and Iwate. Moment Tensor Solution. Best double couple: NP1: ϕ_s188.00000°,δ19.00000°,λ72.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ96.00000°. Principal axes: T 1.3200,Plg62.0000°,Azm307.0000°; N 0.0000,Plg6.0000°,Azm205.0000° ; P -1.3100,Plg27.0000°,Azm113.0000°
IDC Error ellipse: s-maj=11.3km s-min=9.6km az=82.0.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=101.5. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c299; s135,c461;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}1.29±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-1.36±.01; $M_{r\theta}$0.56±.01; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$1.21±.02; Best double couple: NP1:ϕ_s21.00000°,δ68.00000°,λ98.00000°. NP2:ϕ_s180.00000° ,δ24.00000°,λ71.00000°. Principal axes: T 1.8610,Plg66.0000°,Azm306.0000° ; N 0.0850,Plg8.0000°,Azm198.0000°; P -1.9450,Plg22.0000°,Azm105.0000° $M_0$1.90300×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=150.2.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{18}Nm; M_{rr}0.79 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$-0.58 $M_{r\theta}$0.47 $M_{\theta\phi}$0.00 $M_{\phi r}$2.06 Best double couple: NP1:ϕ_s12.00000° ,δ81.00000°,λ92.00000°. NP2:ϕ_s180.00000°,δ9.00000°,λ78.00000°. Principal axes: T 2.3300,Plg53.0000°,Azm284.0000°; N -0.2300,Plg1.0000°,Azm191.0000° ; P -2.1100,Plg36.0000°,Azm100.0000° $M_0$2.20000×10^{18}
NEIC Event type se. Moment Tensor Solution. s82 Moment tensor: Scale 10^{18}Nm; M_{rr}1.23 $M_{\theta\theta}$-0.16 $M_{\phi\phi}$-1.07 $M_{r\theta}$0.09 $M_{\theta\phi}$-0.27 $M_{\phi r}$1.64 Best double couple: NP1:ϕ_s202.00000° ,δ19.00000°,λ106.00000°. NP2:ϕ_s6.00000°,δ72.00000°,λ85.00000°. Principal axes: T 2.0800,Plg62.0000°,Azm268.0000°; N -0.1200,Plg5.0000°,Azm7.0000° ; P -1.9700,Plg27.0000°,Azm100.0000° $M_0$2.00000×10^{18}
(228) Near east coast of eastern Honshu

JMA	**III**	**17 04 18 30.7–.30**	**39.24N**	**142.49E**	**26**	**4.3**	

¶602668514

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**17 04 47 22.4–.10**	**35.84N**	**140.91E**	**12–1**	**3.7**	

¶602668458

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**17 04 50 21.1–2.2**	**39.10N–.07**	**142.4E–.10**	**47–20**	**3.8b**	**27**	**1-88**
IDC	III	17 04 50 14.1–.77	38.99N	142.47E	0	4.0,3.8		**¶17196615**
JMA	III	17 04 50 19.0–.20	39.04N	142.44E	23–3	3.9,3.8		
ISCJB	III	17 04 50 19.8–1.3	39.06N–.05	142.5E–.10	52–12	3.7b,3.8		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(230) Near south coast of eastern Honshu

JMA	**III**	**17 04 59 20.4–.10**	**35.52N**	**139.90E**	**23–2**	**2.6**		

¶603049872

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**17 05 07 00.1–.52**	**38.01N–.04**	**143.54E–.04**	**26–2**	**5.0b,4.8s**	**414**	**2-153**
NIED	III	17 05 06 00	38.00N	143.60E	32	5.3W,4.8s		**¶16329763**
IDC	III	17 05 06 55.5–.52	37.91N	143.70E	0	4.8,4.7		
ISCJB	III	17 05 06 56.8–.83	38.06N–.03	143.47E–.02	10–5	5.0b,4.8s		
JMA	III	17 05 06 57.5–.40	37.96N	143.60E	43	5.2,4.8s		
GCMT	III	17 05 06 59.9–.20	38.02N	143.55E	21–1	5.3W,4.8s		
NEIC	III	17 05 06 59.9–1.4	38.02N	143.52E	21–9	5.2b,4.8s		
MOS	III	17 05 07 00.9–.95	38.25N	143.45E	33	5.2b,4.6s		
BJI	III	17 05 07 00.9	38.15N	143.10E	25	5.4b,5.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ77.00000°,λ-1.00000°. NP2:ϕ_s150.00000°,δ89.00000°,λ-167.00000°. $M_0$9.48000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=11.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.6km az=162.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c26; s108,c168; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.01±.04 $M_{\theta\theta}$-0.75±.03; $M_{\phi\phi}$0.74±.03; $M_{r\theta}$-0.21±.06; $M_{\theta\phi}$0.61±.02; $M_{\phi r}$0.50±.07; Best double couple: NP1:ϕ_s334.00000°,δ89.00000° ,λ151.00000°. NP2:ϕ_s65.00000°,δ61.00000°,λ1.00000°. Principal axes: T 1.1100,Plg21.0000°,Azm286.0000°; N -0.0180,Plg61.0000°,Azm153.0000° ; P -1.0920,Plg19.0000°,Azm24.0000° $M_0$1.10100×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=150.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=102.3.
(228) Near east coast of eastern Honshu

ISC	**III**	**17 05 22 40.6–1.9**	**37.10N–.06**	**141.25E–.10**	**27–10**	**4.0b**	**22**	**0-147**
IDC	III	17 05 22 33.8–2.2	36.91N	141.78E	0	4.0b,3.9		**¶600552335**
ISCJB	III	17 05 22 40.6–1.3	37.12N–.04	141.21E–.09	27–5	3.9b,3.9		
JMA	III	17 05 22 42.6–.10	37.16N	141.06E	30–1	4.0,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=62.3km s-min=32.7km az=2.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=7.0km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(226) Near west coast of eastern Honshu

ISC	**III**	**17 05 24 15.8–1.5**	**40.43N–.04**	**139.32E–.05**	**13–10**	**3.7b**	**26**	**1-89**
NIED	III	17 05 24 00	40.40N	139.20E	35	4.4W		**¶17196622**
IDC	III	17 05 24 14.0–.88	40.49N	139.25E	0	4.0,3.8		
ISCJB	III	17 05 24 14.7–.99	40.41N–.04	139.18E–.05	17–8	3.7b,3.8		
JMA	III	17 05 24 15.5–.10	40.37N	139.21E	19–1	4.2,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ44.00000°,λ-119.00000°. NP2:ϕ_s103.00000°,δ52.00000°,λ-65.00000°. $M_0$4.48000×10^{15}
IDC Error ellipse: s-maj=23.5km s-min=19.1km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=6.6km az=144.1.
JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**17 06 04 04.9–.10**	**39.91N**	**142.19E**	**40–2**	**3.5**	

¶603049873

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**17 06 09 29.6–2.3**	**35.86N–.07**	**141.02E–.10**	**16–13**	**3.6b**	**13**	**0-60**
IDC	III	17 06 09 27.0–1.3	35.70N	141.02E	0	3.6,3.5b		**¶600552432**
ISCJB	III	17 06 09 29.0–1.3	35.86N–.08	141.1E–.10	29–7	3.5b,3.5b		
JMA	III	17 06 09 30.3–.20	35.82N	141.02E	25–1	3.5,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=25.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=10.3km az=137.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**17 06 12 42.8–.32**	**37.78N–.03**	**143.42E–.03**	**25–1**	**5.5b,5.3s**	**1254**	**2-163**
NIED	III	17 06 12 00	37.70N	143.50E	8	5.6W,5.3s		**¶16329765**
IDC	III	17 06 12 38.6–.31	37.70N	143.52E	0	5.2,5.2		
ISCJB	III	17 06 12 38.3–.71	37.74N–.02	143.44E–.02	6–4	5.4b,5.3s		
JMA	III	17 06 12 40.4–.40	37.75N	143.51E	42	5.7,5.3s		
GCMT	III	17 06 12 41.5–.10	37.79N	143.46E	12	5.6W,5.3s		
NEIC	III	17 06 12 41.5–1.4	37.71N	143.44E	16–8	5.5b,5.2s		
MOS	III	17 06 12 41.6–.85	37.72N	143.45E	33	5.7b,5.5s		
BJI	III	17 06 12 43.8	37.82N	142.86E	25	5.8s,5.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ23.00000°,λ-97.00000°. NP2:ϕ_s202.00000°,δ68.00000°,λ-87.00000°. $M_0$2.47000×10^{17}
IDC Error ellipse: s-maj=10.0km s-min=8.4km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=158.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s79,c127; s127,c293;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.96±.03 $M_{\theta\theta}$0.24±.02; $M_{\phi\phi}$1.72±.02; $M_{r\theta}$0.81±.09; $M_{\theta\phi}$0.58±.02; $M_{\phi r}$1.95±.08; Best double couple: NP1:ϕ_s202.00000° ,δ69.00000°,λ-88.00000°. NP2:ϕ_s17.00000°,δ21.00000°,λ-95.00000°. Principal axes: T 2.8450,Plg24.0000°,Azm290.0000°; N 0.0430,Plg2.0000°,Azm21.0000° ; P -2.8880,Plg66.0000°,Azm115.0000° $M_0$2.86700×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=134.0.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=108.8.
(136) Central Chile

ISC	**III**	**17 06 22 56.2–.60**	**38.38S–.05**	**72.19W–.06**	**78**	**4.2b**	**38**	**2-159**
ISCJB	III	17 06 22 55.1–.44	38.35S–.04	72.20W–.08	78	4.4b		**¶16339105**
NEIC	III	17 06 22 57.5–1.1	38.39S	72.22W	89–8	4.0b		
GUC	III	17 06 22 58.3–.30	38.35S	72.77W	79–7	4.5L		
IDC	III	17 06 22 58.2–2.7	38.43S	72.07W	91–23	4.4,4.2		
SJA	III	17 06 23 02.3–.26	37.73S	72.25W	234–105	4.0L,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.0km az=2.9.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=7.3km az=91.0. Felt [III] at Angol and Renaico.
GUC Error ellipse: s-maj=0.8km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=18.9km az=89.0.
SJA Error ellipse: s-maj=17.6km s-min=39.9km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**17 06 24 30.0–.49**	**37.28N–.03**	**142.18E–.04**	**19–2**	**5.3b,5.1s**	**964**	**1-154**
NIED	III	17 06 24 00	37.30N	142.10E	26	5.1W,5.1s		**¶16329767**
IDC	III	17 06 24 26.7–.33	37.25N	142.19E	0	5.1,5.1		
ISCJB	III	17 06 24 27.1–.94	37.25N–.02	142.12E–.02	9–5	5.2b,5.1s		
BJI	III	17 06 24 27.4	37.14N	142.14E	18	5.5b,5.4s		
JMA	III	17 06 24 29.8–.20	37.26N	142.09E	32–4	5.2,5.4s		
MOS	III	17 06 24 32.5–.78	37.64N	142.03E	33	5.4b,5.4s		
NEIC	III	17 06 24 33.4–.32	37.26N	142.07E	41–3	5.3b,5.4s		
GCMT	III	17 06 24 33.4–.30	37.28N	142.02E	21–2	5.2W,5.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ12.00000°,λ166.00000°. NP2:ϕ_s282.00000°,δ87.00000°,λ78.00000°. $M_0$5.00000×10^{16}
IDC Error ellipse: s-maj=10.6km s-min=7.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=153.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=98.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=136.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s7,c7; s82,c110; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.17±.42 $M_{\theta\theta}$-2.18±.25; $M_{\phi\phi}$-0.99±.24; $M_{r\theta}$-7.55±1.13; $M_{\theta\phi}$-0.25±.13; $M_{\phi r}$1.45±.40; Best double couple: NP1:ϕ_s280.00000° ,δ81.00000°,λ93.00000°. NP2:ϕ_s81.00000°,δ10.00000°,λ71.00000°. Principal axes: T 8.6880,Plg54.0000°,Azm194.0000°; N -1.1140,Plg3.0000°,Azm99.0000° ; P -7.5770,Plg36.0000°,Azm7.0000° $M_0$8.13200×10^{16}
(228) Near east coast of eastern Honshu

ISC	**III**	**17 06 36 54.5–.86**	**36.31N–.05**	**140.95E–.07**	**32**	**3.7b**	**16**	**0-65**
IDC	III	17 06 36 50.0–1.1	36.27N	141.03E	0	3.8,3.7b		**¶602668060**
ISCJB	III	17 06 36 52.9–.72	36.31N–.05	141.05E–.07	32	3.7b,3.7b		
JMA	III	17 06 36 53.7	36.32N	140.98E	35–1	3.8,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=16.5km az=180.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.7km az=166.7.
JMA Event type fe.
(229) Off east coast of Honshu

ISC	**III**	**17 06 42 45.0–.35**	**38.72N–.04**	**144.02E–.04**	**31–2**	**5.3b,4.8s**	**584**	**2-160**
NIED	III	17 06 42 00	38.80N	144.00E	5	5.0W,4.8s		**¶602668042**
JMA	III	17 06 42 43.4–.30	38.83N	144.02E	55	4.9,4.8s		
BJI	III	17 06 42 43.1	38.80N	143.80E	22	5.6b,5.1b		
MOS	III	17 06 42 44.8–.96	38.87N	143.87E	33	5.4b,5.1b		
NEIC	III	17 06 42 45.8–.54	38.67N	143.93E	35–5	5.2b,5.1b		
GCMT	III	17 06 42 45.8–.30	38.68N	144.02E	16–1	5.2W,5.1b		
ISCJB	III	17 06 42 45.1–.14	38.74N–.02	143.87E–.02	41	5.2b,4.8s		
IDC	III	17 06 42 46.1–.44	38.64N	143.98E	41–3	4.9,4.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ37.00000°,λ-74.00000°. NP2:ϕ_s1.00000°,δ55.00000°,λ-101.00000°. $M_0$3.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=107.5.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.7km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c29; s93,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.14±.37 $M_{\theta\theta}$1.38±.21; $M_{\phi\phi}$4.76±.23; $M_{r\theta}$-3.10±.76; $M_{\theta\phi}$1.00±.13; $M_{\phi r}$-2.24±.57; Best double couple: NP1:ϕ_s34.00000°,δ61.00000° ,λ-75.00000°. NP2:ϕ_s185.00000°,δ32.00000°,λ-115.00000°. Principal axes: T 5.8550,Plg15.0000°,Azm113.0000°; N 1.6600,Plg13.0000°,Azm207.0000° ; P -7.5150,Plg70.0000°,Azm335.0000° $M_0$6.68500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=150.1.
IDC Error ellipse: s-maj=10.1km s-min=8.4km az=129.0.
(229) Off east coast of Honshu

ISC	**III**	**17 07 03 40.5–3.1**	**37.37N–.05**	**142.66E–.05**	**0–18**	**4.6b**	**131**	**2-154**
NIED	III	17 07 03 00	37.40N	142.50E	20	4.4W		**¶16339107**
IDC	III	17 07 03 40.2–.51	37.40N	142.73E	0	4.5,4.4		
JMA	III	17 07 03 40.0–.20	37.43N	142.55E	0	4.7,4.4		
ISCJB	III	17 07 03 42.1–1.4	37.38N–.03	142.64E–.04	21–10	4.5b,4.4		
NEIC	III	17 07 03 45.0–1.9	37.40N	142.70E	28–13	4.7b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ36.00000°,λ-101.00000°. NP2:ϕ_s222.00000°,δ55.00000°,λ-82.00000°. $M_0$4.64000×10^{15}
IDC Error ellipse: s-maj=13.4km s-min=12.1km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.6km az=137.1.

NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.7km az=122.0.

(186) Vanuatu Islands

ISC	**III**	**17 08 03 04.4–.45**	**17.35S–.04**	**167.82E–.03**	**31–2**	**5.7s,5.5b**	**705**	**10-167**
IDC	III	17 08 02 58.6–1.8	17.33S	167.99E	0–10	5.5,5.5s		**¶16911946**
GCMT	III	17 08 03 00.8–.10	17.34S	167.69E	30–0	5.9W,5.5s		
NEIC	III	17 08 03 00.8–.12	17.27S	167.90E	10	5.8W,5.8W		
BJI	III	17 08 03 03.0	17.30S	167.80E	30	6.0s,5.7		
ISCJB	III	17 08 03 03.0–.12	17.26S–.02	167.85E–.02	33	5.7s,5.4b		
MOS	III	17 08 03 03.3–1.0	17.20S	167.76E	33	5.8b,5.7s		
NEIC	III	17 08 03 03.0–.00	17.09S	167.71E	23	5.8b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=10.8km az=40.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c262; s135,c381;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.67±.01 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$-0.70±.01; $M_{r\theta}$0.17±.01; $M_{\theta\phi}$0.16±.00; $M_{\phi r}$-0.40±.01; Best double couple: NP1: ϕ_s162.00000°,δ61.00000°,λ83.00000°. NP2:ϕ_s355.00000°,δ30.00000°,λ102.00000°. Principal axes: T 0.7960,Plg73.0000°,Azm56.0000°; N 0.0580,Plg6.0000°,Azm165.0000° ; P -0.8540,Plg16.0000°,Azm257.0000° $M_0$0.82500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.8km az=145.0. Felt [IV] at Port-Vila. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}4.87 $M_{\theta\theta}$-0.05 $M_{\phi\phi}$-4.81 $M_{r\theta}$1.44 $M_{\theta\phi}$0.10 $M_{\phi r}$-2.94 Best double couple: NP1:ϕ_s166.00000°,δ62.00000°,λ78.00000°. NP2:ϕ_s11.00000°,δ30.00000°,λ112.00000°. Principal axes: T 6.0000,Plg70.0000° ,Azm49.0000°; N -0.3200,Plg11.0000°,Azm172.0000°; P -5.6800,Plg16.0000° ,Azm265.0000° $M_0$5.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.1km az=26.6.
MOS Error ellipse: s-maj=7.8km s-min=7.2km az=122.1.
NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}6.50 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$-5.80 $M_{r\theta}$1.10 $M_{\theta\phi}$1.36 $M_{\phi r}$-1.92 Best double couple: NP1:ϕ_s161.00000° ,δ54.00000°,λ84.00000°. NP2:ϕ_s350.00000°,δ36.00000°,λ98.00000°. Principal axes: T 6.9000,Plg79.0000°,Azm48.0000°; N -0.4000,Plg4.0000°,Azm164.0000° ; P -6.5000,Plg9.0000°,Azm255.0000° $M_0$6.70000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 04 41.8–1.8**	**38.96N–.06**	**142.4E–.10**	**45–16**	**4.1b**	**42**	**1-88**
JMA	III	17 08 04 39.4–.10	38.95N	142.39E	30–2	4.1		**¶16478821**
ISCJB	III	17 08 04 40.0–.95	38.94N–.04	142.42E–.08	46–8	4.6s,4.2b		
NEIC	III	17 08 04 42.4–.86	38.93N	142.46E	54–8	4.2b,4.2b		
IDC	III	17 08 04 43.8–2.7	38.92N	142.36E	67–24	4.2s,4.2		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.3km az=20.2.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.5km az=110.0.
IDC Error ellipse: s-maj=20.5km s-min=15.4km az=110.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 25 25.0–.52**	**36.68N–.03**	**141.79E–.03**	**26–3**	**5.4b,5.1s**	**1281**	**1-157**
NIED	III	17 08 25 00	36.70N	141.50E	26	5.3W,5.1s		**¶602443657**
IDC	III	17 08 25 20.9–.29	36.64N	141.76E	0	5.3,5.3		
JMA	III	17 08 25 22.7–.20	36.68N	141.85E	17–2	5.4,5.3		
BJI	III	17 08 25 22.6	36.66N	141.72E	26	5.3b,5.3b		
ISCJB	III	17 08 25 24.5–.70	36.62N–.02	141.75E–.02	32–4	5.3b,5.1s		
MOS	III	17 08 25 27.2–.84	37.10N	141.66E	38	5.5b,5.2s		
GCMT	III	17 08 25 28.5–.40	36.54N	141.94E	82–5	5.3W,5.2s		
NEIC	III	17 08 25 28.5–.52	36.66N	141.63E	52–4	5.2b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ38.00000°,λ-68.00000°. NP2:ϕ_s360.00000°,δ55.00000°,λ-106.00000°. $M_0$8.52000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=8.0km az=85.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=153.6.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=111.2.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s5,c5; s82,c117; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.06 $M_{\theta\theta}$-1.14±.05; $M_{\phi\phi}$0.16±.05; $M_{r\theta}$-0.04±.05; $M_{\theta\phi}$0.49±.04; $M_{\phi r}$-0.41±.03; Best double couple: NP1:ϕ_s132.00000°,δ53.00000° ,λ123.00000°. NP2:ϕ_s265.00000°,δ48.00000°,λ55.00000°. Principal axes: T 1.1670,Plg64.0000°,Azm104.0000°; N 0.1330,Plg26.0000°,Azm290.0000° ; P -1.3050,Plg2.0000°,Azm199.0000° $M_0$1.23600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=136.0. Recorded [3 JMA] in Fukushima.

(219) Off east coast of Kamchatka Peninsula

ISC	**III**	**17 08 28 16.4–.40**	**52.59N–.04**	**160.65E–.04**	**24**	**5.1s,5.0b**	**278**	**1-89**
MOS	III	17 08 28 09.8–1.1	52.16N	161.07E	16	5.3b,4.5s		**¶16329775**
KRSC	III	17 08 28 09.7–3.1	52.29N	161.22E	16–35	5.3L,4.5s		
ISCJB	III	17 08 28 14.0–.25	52.42N–.03	160.77E–.04	24	5.1s,5.0b		
IDC	III	17 08 28 20.3–2.2	52.66N	160.50E	53–19	4.9,4.9s		
NEIC	III	17 08 28 20.4–.81	52.65N	160.51E	53–6	5.1b,4.9s		
GCMT	III	17 08 28 20.4–.30	52.37N	160.77E	12–2	5.3W,4.9s		
BJI	III	17 08 28 25.4	53.09N	159.42E	76	5.3b,5.3s		

ISC Event type se.
MOS Event type fe. Error ellipse: s-maj=8.7km s-min=4.7km az=107.9. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.4km az=143.5.
IDC Error ellipse: s-maj=13.6km s-min=10.8km az=140.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=153.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s14,c17; s76,c112; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.51±.07 $M_{\theta\theta}$-0.28±.04; $M_{\phi\phi}$-0.22±.04; $M_{r\theta}$0.82±.19; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$0.39±.12; Best double couple: NP1:ϕ_s62.00000°,δ75.00000° ,λ99.00000°. NP2:ϕ_s210.00000°,δ18.00000°,λ59.00000°. Principal axes: T 1.0400,Plg59.0000°,Azm345.0000°; N 0.0500,Plg9.0000°,Azm240.0000° ; P -1.0900,Plg29.0000°,Azm145.0000° $M_0$1.06500×10^{17}

(229) Off east coast of Honshu

ISC	**III**	**17 08 34 17.1–.74**	**37.72N–.06**	**142.05E–.07**	**24**	**3.6b**	**19**	**1-146**
ISCJB	III	17 08 34 15.5–.62	37.66N–.05	142.15E–.06	24	3.6b		**¶17196657**
JMA	III	17 08 34 17.9–.30	37.71N	142.01E	29–4	4.0		
IDC	III	17 08 34 20.8–3.2	37.69N	142.14E	53–30	3.7,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.2km az=138.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.0km s-min=17.5km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 44 50.9–.72**	**38.43N–.04**	**142.14E–.04**	**28–4**	**4.9b**	**610**	**1-155**
NIED	III	17 08 44 00	38.40N	142.30E	8	4.5W		**¶16339108**
IDC	III	17 08 44 46.5–.43	38.41N	142.19E	0	4.8,4.7		
JMA	III	17 08 44 47.4–.20	38.42N	142.30E	23–3	4.7,4.7		
MOS	III	17 08 44 50.9–.79	38.59N	142.00E	31	5.0b,4.7		
ISCJB	III	17 08 44 50.4–.93	38.42N–.03	142.06E–.03	33–6	4.8b,3.9s		
NEIC	III	17 08 44 53.4–.53	38.43N	142.03E	44–5	4.8b,3.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ43.00000°,λ-129.00000°. NP2:ϕ_s265.00000°,δ58.00000°,λ-59.00000°. $M_0$6.39000×10^{15}
IDC Error ellipse: s-maj=11.7km s-min=11.3km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.2km az=106.1.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=148.5.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=145.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 51 13.0–1.1**	**37.02N–.05**	**141.4E–.10**	**39–8**	**3.7b**	**22**	**0-57**
ISCJB	III	17 08 51 12.0–1.0	36.99N–.04	141.4E–.10	48–9	3.7b		**¶17196659**
JMA	III	17 08 51 14.2–.10	37.07N	141.19E	51–1	3.8		
IDC	III	17 08 51 15.3–3.6	36.93N	141.22E	62–34	3.8,3.7L		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=7.1km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=18.4km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 56 54.2–1.6**	**36.43N–.05**	**141.14E–.08**	**27–11**	**3.9b**	**22**	**0-60**
IDC	III	17 08 56 48.7–2.2	36.52N	141.53E	0	3.9,3.8		**¶17196660**
ISCJB	III	17 08 56 53.3–1.1	36.39N–.04	141.19E–.07	31–6	3.8b,3.8		
JMA	III	17 08 56 54.9–.10	36.42N	141.08E	45–1	3.9,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=56.9km s-min=22.9km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=7.2km az=176.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 08 59 40.8–.62**	**40.25N–.04**	**142.47E–.04**	**33–3**	**4.9b,4.7s**	**363**	**1-154**
NIED	III	17 08 59 00	40.20N	142.50E	38	5.1W,4.7s		**¶602667769**
BJI	III	17 08 59 37.8	40.16N	142.76E	45	5.3b,4.9b		
ISCJB	III	17 08 59 38.5–.20	40.21N–.03	142.55E–.03	31	4.9b,4.6s		
JMA	III	17 08 59 40.3–.10	40.15N	142.50E	29–1	5.0,4.6s		
MOS	III	17 08 59 40.7–.96	40.35N	142.38E	40	5.2b,5.0s		
IDC	III	17 08 59 42.9–2.0	40.17N	142.46E	58–17	4.6s,4.6		
NEIC	III	17 08 59 43.2–.65	40.25N	142.41E	53–6	4.9b,4.6		
GCMT	III	17 08 59 43.2–.30	40.30N	142.62E	43–1	5.2W,4.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ23.00000°,λ43.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ107.00000°. $M_0$5.56000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=139.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=106.4.
IDC Error ellipse: s-maj=13.7km s-min=12.1km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=137.0. Recorded [3 JMA] in Aomori.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c42; s80,c125; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.71±.04 $M_{\theta\theta}$-0.12±.03; $M_{\phi\phi}$-0.59±.03; $M_{r\theta}$0.29±.02; $M_{\theta\phi}$-0.10±.01; $M_{\phi r}$0.37±.02; Best double couple: NP1:ϕ_s25.00000°,δ62.00000° ,λ101.00000°. NP2:ϕ_s183.00000°,δ30.00000°,λ70.00000°. Principal axes: T 0.8740,Plg71.0000°,Azm319.0000°; N -0.1320,Plg10.0000°,Azm200.0000° ; P -0.7420,Plg17.0000°,Azm107.0000° $M_0$0.80800×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 09 05 58.4–.36**	**40.19N–.03**	**142.43E–.03**	**34–1**	**5.0b,4.5s**	**517**	**1-154**
NIED	III	17 09 05 00	40.20N	142.50E	38	4.9W,4.5s		**¶602443662**
BJI	III	17 09 05 52.2	40.11N	142.81E	25	5.3b,5.0b		
ISCJB	III	17 09 05 58.4–.41	40.19N–.02	142.42E–.03	43–3	5.0b,4.6s		
JMA	III	17 09 05 58.8–.10	40.15N	142.46E	31–1	4.8,4.6s		
MOS	III	17 09 05 58.0–.89	40.35N	142.37E	33	5.4b,4.6s		
NEIC	III	17 09 05 59.5–.16	40.26N	142.34E	35	5.0b,4.6s		
GCMT	III	17 09 05 59.5–.60	40.29N	142.66E	46–1	5.1W,4.6s		
IDC	III	17 09 05 59.9–.63	40.18N	142.49E	46–5	4.8,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ21.00000°,λ49.00000°. NP2:ϕ_s28.00000°,δ74.00000°,λ104.00000°. $M_0$2.90000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=137.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=101.6.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=142.0. Recorded [3 JMA] in Iwate.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c23; s60,c86; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.31±.53 $M_{\theta\theta}$-1.42±.30; $M_{\phi\phi}$-4.89±.29; $M_{r\theta}$1.40±.17; $M_{\theta\phi}$-0.37±.14; $M_{\phi r}$1.82±.16; Best double couple: NP1:ϕ_s16.00000°,δ55.00000° ,λ99.00000°. NP2:ϕ_s180.00000°,δ36.00000°,λ77.00000°. Principal axes: T 6.8120,Plg77.0000°,Azm317.0000°; N -1.5420,Plg8.0000°,Azm190.0000° ; P -5.2710,Plg10.0000°,Azm99.0000° $M_0$6.04100×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=10.0km az=110.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 10 08 58.4–1.5**	**39.26N–.08**	**142.4E–.10**	**29**	**3.6b**	**12**	**1-59**
IDC	III	17 10 08 51.8–2.7	39.57N	143.06E	0	4.0,3.8s		**¶600552907**
ISCJB	III	17 10 08 57.7–1.2	39.25N–.08	142.5E–.10	29	3.8s,3.6b		
JMA	III	17 10 09 02.0–.20	39.27N	142.21E	44–5	3.5,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=66.8km s-min=29.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=10.6km az=137.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 10 11 16.3–.10**	**37.34N**	**141.15E**	**24–1**	**3.6**		**¶602667595**

JMA Event type fe.

(471) Ohio

OTT	**III**	**17 10 53 09.1–.13**	**41.14N**	**80.71W**	**5**	**2.7**		
NEIC	III	17 10 53 09.5	41.11N	80.68W	5	2.6		**¶16339111**

OTT Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Ohio, U.S.A. 170km southeast from Blenheim, On Eastern Background Seismic Zone.
NEIC Event type fe. Felt at Youngstown. After OGSO.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 10 54 55.5–.10**	**35.73N**	**140.91E**	**9–1**	**3.5**		**¶602668294**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 11 13 13.9–1.4**	**38.59N–.06**	**142.00E–.07**	**33–4**	**3.9b**	**30**	**1-76**
NIED	III	17 11 13 00	38.60N	141.90E	47	4.0W		**¶17196691**
IDC	III	17 11 13 10.6–1.5	38.91N	141.89E	0	4.0,3.9		
JMA	III	17 11 13 15.5–.10	38.58N	141.87E	53–2	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ77.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ95.00000°. $M_0$1.18000×10^{15}
IDC Error ellipse: s-maj=36.7km s-min=17.5km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(135) Near coast of central Chile

ISC	**III**	**17 11 14 24.0–1.4**	**32.62S–.03**	**71.80W–.05**	**23–9**	**5.1b,4.7s**	**599**	**1-176**
ISCJB	III	17 11 14 20.8–.15	32.58S–.03	71.91W–.03	10	4.9b,4.6s		**¶16331280**
IDC	III	17 11 14 20.6–.45	32.50S	71.59W	0	4.8,4.8L		
BJI	III	17 11 14 23.2	31.85S	70.85W	19	5.5s,5.3		
GUC	III	17 11 14 24.1–.33	32.59S	71.69W	13–1	5.0L,5.3		
NEIC	III	17 11 14 24.0	32.66S	71.76W	13	5.1b,5.0L		
MOS	III	17 11 14 24.6–1.1	32.55S	71.55W	33	5.1b,5.0L		
GCMT	III	17 11 14 26.7–.20	32.67S	72.00W	35–0	5.2W,5.0L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.3km az=42.6.
IDC Error ellipse: s-maj=20.3km s-min=14.4km az=76.0.
GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.
NEIC Event type fe. Felt [IV] at La Ligua, Quilpue, San Bernardo, Tiltil, Valparaiso, Vina del Mar and Zapallar; [III] at Coquimbo, Hijuelas, La Serena, Quillota, San Antonio, Santiago and Talagante; [II] at Rancagua. Also felt at Limache and San Vicente. Felt at Mendoza, Argentina. After GUC.
MOS Error ellipse: s-maj=16.4km s-min=8.2km az=101.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c82; s74,c101; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.62±.02 $M_{\theta\theta}$0.07±.02; $M_{\phi\phi}$-0.69±.02; $M_{r\theta}$0.08±.02; $M_{\theta\phi}$0.01±.01; $M_{\phi r}$-0.45±.03; Best double couple: NP1:ϕ_s174.00000°,δ62.00000° ,λ84.00000°. NP2:ϕ_s6.00000°,δ28.00000°,λ101.00000°. Principal axes: T 0.7700,Plg72.0000°,Azm70.0000°; N 0.0650,Plg5.0000°,Azm176.0000° ; P -0.8350,Plg17.0000°,Azm268.0000° $M_0$0.80200×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**17 11 31 23.8–.83**	**35.64N–.04**	**140.83E–.06**	**26–5**	**4.0s,3.7b**	**36**	**0-148**
NIED	III	17 11 31 00	35.60N	141.00E	29	4.1W,3.7b		**¶600553156**
IDC	III	17 11 31 19.6–.67	35.58N	140.78E	0	3.9,3.8		
NEIC	III	17 11 31 21.3–3.4	35.61N	140.81E	10–21	4.1b,3.8		
ISCJB	III	17 11 31 22.6–.88	35.60N–.04	141.00E–.06	33–6	3.8s,3.7b		
JMA	III	17 11 31 23.2–.10	35.63N	141.00E	27–1	3.9,3.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ46.00000°,λ48.00000°. NP2:ϕ_s282.00000°,δ58.00000°,λ124.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=16.1km az=99.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.7km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.0km az=159.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 11 38 26.4–1.1**	**36.74N–.04**	**140.54E–.05**	**5–8**	**3.7b**	**28**	**0-91**
NIED	III	17 11 38 00	36.70N	140.60E	5	3.8W		**¶17196696**
IDC	III	17 11 38 25.6–.78	36.73N	140.53E	0	4.0,3.8		

ISCJB III 17 11 38 25.9–.64 36.69N–.03 140.63E–.05 12–3 3.7b,3.8
JMA III 17 11 38 26.6–.10 36.72N 140.57E 3–2 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S350.00000°,δ27.00000°,λ-108.00000°. NP2:ϕ_S190.00000°,δ64.00000°,λ-81.00000°. $M_0$5.32000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=16.8km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=24.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 17 11 41 02.8–.84 36.06N–.04 141.20E–.08 26 3.8b 21 0-78
IDC III 17 11 40 59.3–.74 35.99N 141.19E 0 4.1s,4.1 **¶17196700**
JMA III 17 11 41 01.6–.10 36.03N 141.27E 36–2 4.0,4.1
ISCJB III 17 11 41 01.6–.57 36.04N–.04 141.27E–.06 26 4.2s,3.6b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 17 11 48 10.9–.62 37.31N–.04 141.34E–.05 29–4 4.3b,3.6s 60 0-90
NIED III 17 11 48 00 37.40N 141.30E 26 4.2W,3.6s **¶602443664**
JMA III 17 11 48 10.8–.10 37.37N 141.34E 29–1 4.3,3.6s
ISCJB III 17 11 48 10.7–.79 37.29N–.03 141.36E–.07 43–7 4.2b,3.6s
IDC III 17 11 48 11.0–.57 37.34N 141.29E 28–3 4.2,4.2
NEIC III 17 11 48 13.8–.73 37.31N 141.31E 55–6 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S69.00000°,δ11.00000°,λ-65.00000°. NP2:ϕ_S224.00000°,δ80.00000°,λ-95.00000°. $M_0$1.91000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.3km az=0.9.
IDC Error ellipse: s-maj=13.9km s-min=12.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.0km az=105.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC III 17 12 00 35.0–1.3 36.22N–.06 140.97E–.07 30–8 3.7b 23 1-82
NIED III 17 12 00 00 36.20N 141.00E 41 3.9W **¶17196703**
IDC III 17 12 00 30.4–.88 36.19N 141.00E 0 3.8,3.7b
JMA III 17 12 00 34.5–.10 36.22N 141.00E 44–1 3.7,3.7b
ISCJB III 17 12 00 34.6–.91 36.21N–.06 140.98E–.09 43–7 3.7b,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S356.00000°,δ5.00000°,λ-120.00000°. NP2:ϕ_S205.00000°,δ85.00000°,λ-87.00000°. $M_0$9.18000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(230) Near south coast of eastern Honshu

JMA III 17 12 02 13.0 34.46N 139.26E 7–1 2.5
¶603049877
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 17 12 19 10.1–.96 36.77N–.03 140.54E–.05 11–7 3.6b 20 0-91
IDC III 17 12 19 08.2–1.4 36.72N 140.65E 0 4.0,3.6 **¶17196714**
ISCJB III 17 12 19 09.6–.72 36.74N–.03 140.65E–.06 15–6 3.6b,3.6
JMA III 17 12 19 10.3 36.77N 140.56E 8–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=26.2km az=7.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=25.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 17 12 27 41.4–.10 38.72N 142.14E 37–2 3.5
¶603049881
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 17 12 32 03.4–.34 35.56N–.03 140.87E–.03 28–2 5.3b,5.3s 1039 0-166
BJI III 17 12 31 56.3 35.45N 141.05E 11 5.5s,5.4 **¶602443670**
NIED III 17 12 32 00 35.60N 141.00E 29 5.5W,5.4
JMA III 17 12 32 02.4–.10 35.63N 140.98E 28–1 5.7,5.4
ISCJB III 17 12 32 02.4–.44 35.53N–.02 140.80E–.02 31–3 5.3s,5.3b
GCMT III 17 12 32 04.6–.10 35.58N 140.89E 29–0 5.5W,5.3b
NEIC III 17 12 32 04.6–.59 35.50N 140.76E 36–5 5.5W,5.4b
IDC III 17 12 32 04.0–3.1 35.55N 140.90E 33–23 5.2,5.2s
MOS III 17 12 32 04.6–1.0 35.57N 140.79E 49 5.5b,5.3s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S267.00000°,δ31.00000°,λ130.00000°. NP2:ϕ_S42.00000°,δ67.00000°,λ68.00000°. $M_0$1.86000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_S37.00000°,δ55.00000°,λ79.00000°. NP2: ϕ_S236.00000°,δ37.00000°,λ105.00000°. Principal axes: T Plg77.0000°,Azm270.0000° ; N Plg9.0000°,Azm44.0000°; P Plg9.0000°,Azm135.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=153.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c174; s120,c249;Duration: 1$\fallingdotseq$4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.39±.04 $M_{\theta\theta}$-1.78±.03; $M_{\phi\phi}$-0.61±.03; $M_{r\theta}$0.59±.06; $M_{\theta\phi}$-0.94±.02; $M_{\phi r}$1.03±.06; Best double couple: NP1:ϕ_S48.00000° ,δ58.00000°,λ77.00000°. NP2:ϕ_S252.00000°,δ34.00000°,λ110.00000°. Principal axes: T 2.7290,Plg73.0000°,Azm284.0000°; N -0.2060,Plg11.0000°,Azm55.0000° ; P -2.5230,Plg12.0000°,Azm148.0000° $M_0$2.62600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=128.0. Felt at Iruma, Matsudo, Toride and Zama. Recorded [4 JMA] in Chiba, Ibaraki and Saitama. Moment Tensor Solution. s48 Moment tensor: Scale 10^{17}Nm; M_{rr}1.11 $M_{\theta\theta}$-1.75 $M_{\phi\phi}$0.63 $M_{r\theta}$0.61 $M_{\theta\phi}$-0.18 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_S297.00000°,δ42.00000°,λ142.00000°. NP2:ϕ_S56.00000° ,δ66.00000°,λ54.00000°. Principal axes: T 1.7800,Plg54.0000°,Azm281.0000° ; N 0.1400,Plg32.0000°,Azm73.0000°; P -1.9200,Plg13.0000°,Azm171.0000° $M_0$1.90000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=7.5km az=89.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=111.0.

(228) Near east coast of eastern Honshu

ISC III 17 12 33 24.7–.48 35.54N–.05 140.89E–.08 33 4.9b 46 0-148
ISCJB III 17 12 33 22.9–.35 35.48N–.04 140.90E–.08 33 4.9b **¶16478897**
JMA III 17 12 33 23.4–.20 35.61N 141.00E 27–1 4.9
NEIC III 17 12 33 25.0–2.0 35.48N 140.88E 34–14 5.0b
GCMT III 17 12 33 25.0–.50 35.77N 140.88E 14–2 5.4W
IDC III 17 12 33 25.0–4.3 35.49N 140.87E 33–32 5.5L,5.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.6km az=162.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.1km az=86.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c20; s72,c90; Duration: 1$\fallingdotseq$2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.71±.10 $M_{\theta\theta}$-0.76±.06; $M_{\phi\phi}$0.04±.05; $M_{r\theta}$-1.06±.25; $M_{\theta\phi}$-0.56±.03; $M_{\phi r}$0.29±.13; Best double couple: NP1:ϕ_S274.00000°,δ73.00000° ,λ117.00000°. NP2:ϕ_S33.00000°,δ31.00000°,λ34.00000°. Principal axes: T 1.4630,Plg54.0000°,Azm216.0000°; N -0.0530,Plg26.0000°,Azm86.0000° ; P -1.4100,Plg24.0000°,Azm343.0000° $M_0$1.43700×10^{17}
IDC Error ellipse: s-maj=15.1km s-min=11.9km az=90.0.

(228) Near east coast of eastern Honshu

ISC III 17 12 35 50.8–.75 37.18N–.04 141.52E–.07 42–6 4.7b 55 1-147
JMA III 17 12 35 50.8–.20 37.22N 141.44E 45–2 4.9 **¶16335585**
NEIC III 17 12 35 50.5–.43 37.19N 141.62E 35 4.5b
ISCJB III 17 12 35 50.4–.74 37.14N–.03 141.48E–.07 52–6 4.6b
IDC III 17 12 35 51.2–.57 37.18N 141.43E 44–5 4.6,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=8.7km az=121.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=2.6.
IDC Error ellipse: s-maj=15.2km s-min=9.0km az=108.0.

(228) Near east coast of eastern Honshu

JMA III 17 12 37 13.9–.10 35.94N 140.99E 13–2 4.0
¶602667500
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 17 12 54 52.8–.37 36.78N–.03 141.32E–.03 32–2 5.9b,5.5s 1532 1-165
NIED III 17 12 54 00 36.70N 141.30E 44 5.8W,5.5s **¶601668862**
BJI III 17 12 54 49.3 36.71N 141.31E 28 5.7b,5.7b
MOS III 17 12 54 52.2–.81 36.88N 141.22E 33 6.0b,5.5s
NEIC III 17 12 54 52.6–.08 36.76N 141.20E 29 6.1b,5.9W
GCMT III 17 12 54 52.6–.10 36.80N 141.42E 40–0 5.8W,5.9W
NEIC III 17 12 54 52.0–.00 36.56N 141.51E 25 5.8W,5.9W
JMA III 17 12 54 53.6–.20 36.74N 141.31E 47–2 5.7,5.9W
ISCJB III 17 12 54 53.3–.35 36.75N–.02 141.24E–.02 45–3 5.8b,5.5s
IDC III 17 12 54 56.0–1.1 36.74N 141.16E 59–10 5.4,5.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S227.00000°,δ38.00000°,λ-91.00000°. NP2:ϕ_S49.00000°,δ52.00000°,λ-89.00000°. $M_0$6.49000×10^{17}
MOS Error ellipse: s-maj=6.4km s-min=3.7km az=106.2.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=130.0. Felt [IV] at Yokosuka. Also felt at Fujisawa, Furukawa, Narita, Tokyo, Toride and Yokohama. Recorded [4 JMA] in Fukushima, Ibaraki and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.28 $M_{\theta\theta}$-2.58 $M_{\phi\phi}$7.86 $M_{r\theta}$-0.24 $M_{\theta\phi}$3.30 $M_{\phi r}$1.32 Best double couple: NP1:ϕ_S33.00000°,δ43.00000°,λ-66.00000°. NP2:ϕ_S181.00000° ,δ52.00000°,λ-11.00000°. Principal axes: T 8.9100,Plg5.0000°,Azm286.0000° ; N -3.3600,Plg16.0000°,Azm195.0000°; P -5.5500,Plg73.0000°,Azm32.0000° $M_0$7.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c265; s128,c334;Duration: 1$\fallingdotseq$9 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.67±.06 $M_{\theta\theta}$3.07±.04; $M_{\phi\phi}$3.61±.05; $M_{r\theta}$-0.82±.04; $M_{\theta\phi}$2.22±.03; $M_{\phi r}$-0.07±.04; Best double couple: NP1:ϕ_S46.00000° ,δ48.00000°,λ-84.00000°. NP2:ϕ_S218.00000°,δ42.00000°,λ-96.00000°. Principal axes: T 5.6060,Plg3.0000°,Azm132.0000°; N 1.1440,Plg4.0000°,Azm222.0000° ; P -6.7400,Plg85.0000°,Azm8.0000° $M_0$6.17300×10^{17}
NEIC Event type se. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.71 $M_{\theta\theta}$3.08 $M_{\phi\phi}$2.62 $M_{r\theta}$-0.62 $M_{\theta\phi}$1.73 $M_{\phi r}$-1.02 Best double couple: NP1:ϕ_S46.00000° ,δ51.00000°,λ-93.00000°. NP2:ϕ_S231.00000°,δ39.00000°,λ-85.00000°. Principal axes: T 4.7200,Plg6.0000°,Azm138.0000°; N 1.1300,Plg2.0000°,Azm47.0000° ; P -5.8500,Plg83.0000°,Azm293.0000° $M_0$5.40000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=165.5.
IDC Error ellipse: s-maj=9.6km s-min=6.5km az=84.0.

(228) Near east coast of eastern Honshu

ISC III 17 13 03 00.2–.67 38.31N–.07 142.12E–.08 38–3 4.2b 47 1-146
JMA III 17 13 02 59.6–.30 38.36N 142.11E 33–4 4.5 **¶16478903**
ISCJB III 17 13 02 59.6–.97 38.31N–.04 142.09E–.08 51–8 4.1b
NEIC III 17 13 02 59.9–.40 38.35N 142.06E 35 4.4b
IDC III 17 13 03 00.4–.73 38.30N 142.06E 38–5 4.1,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.5km az=26.3.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.1km az=127.0.
IDC Error ellipse: s-maj=17.2km s-min=15.7km az=152.0.

(228) Near east coast of eastern Honshu

ISC III 17 13 04 21.5–.97 35.60N–.05 140.94E–.07 26–6 4.2b 35 0-148
ISCJB III 17 13 04 20.9–2.1 35.63N–.04 140.94E–.08 33–15 4.1b **¶16461888**
JMA III 17 13 04 21.4–.20 35.65N 140.96E 25–1 3.8
IDC III 17 13 04 22.6–4.9 35.54N 140.87E 33–38 4.1,4.0
NEIC III 17 13 04 22.4–.51 35.49N 140.77E 35 4.3b,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.6km az=168.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.8km s-min=16.7km az=75.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.4km az=108.0.

(228) Near east coast of eastern Honshu

ISC III 17 13 12 30.9–2.4 36.74N–.07 141.60E–.10 23–15 3.6b 20 1-75
IDC III 17 13 12 26.9–1.3 36.82N 141.82E 0 3.8,3.6 **¶17196722**
ISCJB III 17 13 12 30.1–1.5 36.71N–.05 141.64E–.08 29–9 3.6b,3.6
JMA III 17 13 12 34.9–.10 36.75N 141.30E 45–2 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=24.9km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=8.9km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 17 13 15 07.0–1.2 35.59N–.06 141.02E–.09 33 3.5b 17 0-59
IDC III 17 13 15 01.8–3.0 35.68N 141.26E 0 3.5,3.4 **¶17196723**
ISCJB III 17 13 15 05.3–1.1 35.62N–.07 141.1E–.10 33 3.5b,3.4
JMA III 17 13 15 06.8–.20 35.60N 140.97E 25–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=100.4km s-min=24.1km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.4km az=156.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 17 13 34 54.4–1.3 35.73N–.05 140.62E–.04 3–10 3.5b 18 0-56
IDC III 17 13 34 54.0–1.3 35.60N 140.71E 0 3.7,3.5 **¶17196733**
JMA III 17 13 34 54.5–.10 35.84N 141.02E 7–3 3.7,3.5
ISCJB III 17 13 34 54.9–.79 35.77N–.05 140.88E–.09 20–4 3.5b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 17 13 37 33.3–.41 36.16N–.05 141.89E–.05 23 4.7b 179 1-147
NIED III 17 13 37 00 36.20N 141.90E 26 4.4W **¶16331385**
IDC III 17 13 37 29.8–.55 36.10N 141.81E 0 4.5,4.4
ISCJB III 17 13 37 31.1–.28 36.14N–.03 141.94E–.04 23 4.6b,4.3s
JMA III 17 13 37 32.7–.30 36.19N 141.86E 66 4.5,4.3s
NEIC III 17 13 37 35.0–.29 36.15N 141.81E 35 4.8b,4.3s
MOS III 17 13 37 36.2–.92 36.58N 141.67E 38 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S199.00000°,δ28.00000°,λ83.00000°. NP2:ϕ_S27.00000°,δ62.00000°,λ94.00000°. $M_0$4.12000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.7km az=36.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.5km az=131.0.
MOS Error ellipse: s-maj=8.8km s-min=6.3km az=113.4.

(228) Near east coast of eastern Honshu

ISC III 17 13 53 34.6–2.1 38.80N–.09 142.0E–.20 58–17 3.4b 15 1-59
IDC III 17 13 53 26.9–1.4 38.67N 141.83E 0 3.7,3.5b **¶17196737**
ISCJB III 17 13 53 33.9–1.4 38.80N–.08 142.0E–.10 67–12 3.5b,3.5b
JMA III 17 13 53 35.2–.10 38.80N 141.94E 56–1 4.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=28.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=20.7km s-min=11.2km az=26.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 17 13 58 35.9–.46 36.22N–.04 141.63E–.05 20–1 4.5b 136 1-147
NIED III 17 13 58 00 36.30N 141.60E 11 4.3W **¶16461889**
JMA III 17 13 58 36.5–.20 36.27N 141.57E 59–5 4.4
ISCJB III 17 13 58 36.6–.84 36.18N–.03 141.62E–.06 37–7 4.5b
IDC III 17 13 58 36.4–.60 36.19N 141.78E 25–2 4.2,4.2
NEIC III 17 13 58 37.8–.24 36.16N 141.66E 35 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S305.00000°,δ43.00000°,λ48.00000°. NP2:ϕ_S177.00000°,δ60.00000°,λ122.00000°. $M_0$3.71000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.5km az=175.7.
IDC Error ellipse: s-maj=13.6km s-min=12.7km az=122.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=155.0.

(228) Near east coast of eastern Honshu

ISC III 17 14 17 06.4–1.6 35.63N–.05 141.1E–.10 26–8 13 0-56
IDC III 17 14 17 01.2–4.6 35.77N 141.44E 0 3.5,3.3b **¶17196740**
ISCJB III 17 14 17 05.0–1.9 35.64N–.05 141.2E–.20 28–9 3.4b,3.3b
JMA III 17 14 17 07.1–.10 35.63N 140.98E 26–1 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=130.6km s-min=36.3km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=20.9km s-min=8.6km az=177.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
JMA III 17 14 30 50.6 39.58N 140.54E 7–1 2.7 ¶603049884
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 17 14 31 34.8–1.8 38.31N–.07 141.7E–.10 53–20 19 1-58
IDC III 17 14 31 13.8–3.6 40.18N 141.83E 0 3.7,3.5 ¶17196744
JMA III 17 14 31 34.9–.10 38.31N 141.61E 55–2 3.5,3.5
ISCJB III 17 14 31 34.5–1.3 38.30N–.06 141.6E–.10 59–19 3.6b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 17 14 41 28.9–.62 36.02N–.04 141.47E–.06 29–4 4.0b 57 1-147
NEIC III 17 14 41 29.7–.31 35.97N 141.46E 35 4.3b ¶600553396
JMA III 17 14 41 29.1–.20 36.06N 141.45E 45–3 3.8
ISCJB III 17 14 41 29.1–.80 36.05N–.04 141.46E–.07 43–7 4.0b
IDC III 17 14 41 30.6–.70 35.97N 141.42E 42–6 3.8,3.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=6.5km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.8km az=167.7.
IDC Error ellipse: s-maj=15.5km s-min=9.2km az=112.0.
(228) Near east coast of eastern Honshu
ISC III 17 14 49 42.1–.83 40.12N–.05 142.41E–.06 46–6 4.5b 99 1-116
NEIC III 17 14 49 36.5–.49 39.40N 142.59E 35 4.7b ¶602667209
JMA III 17 14 49 41.3–.10 40.13N 142.43E 31–2 4.4
IDC III 17 14 49 41.1–1.6 39.97N 142.50E 46–7 4.4,4.2
ISCJB III 17 14 49 41.7–.62 40.13N–.04 142.40E–.06 58–4 4.5b,4.2s
ISC Event type ke.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 17 14 50 02.5–.45 35.45N–.04 140.79E–.05 33 4.4b,3.8s 74 0-148
NIED III 17 14 50 00 35.50N 141.00E 35 4.7W,3.8s ¶600553418
ISCJB III 17 14 50 00.7–.32 35.39N–.03 140.93E–.06 33 4.4b,3.8s
JMA III 17 14 50 02.2–.10 35.52N 140.98E 36–1 4.4,3.8s
NEIC III 17 14 50 02.7–.33 35.44N 140.85E 35 4.8b,3.8s
IDC III 17 14 50 05.0–1.9 35.45N 140.80E 54–18 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ12.00000°,λ-33.00000°. NP2:ϕ_s160.00000°,δ84.00000°,λ-100.00000°. $M_0$1.16000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.7km az=0.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.2km az=86.0.
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=81.0.
(226) Near west coast of eastern Honshu
JMA III 17 14 58 12.8 37.03N 138.67E 10–2 2.8 ¶602667869
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 17 15 00 29.3–.76 40.15N–.05 142.41E–.05 49–6 4.7b,3.9s 165 1-144
NIED III 17 15 00 00 40.20N 142.40E 41 4.6W,3.9s ¶16403026
JMA III 17 15 00 28.5–.10 40.15N 142.43E 32–1 4.5,3.9s
ISCJB III 17 15 00 28.3–.53 40.13N–.03 142.45E–.05 56–4 4.6b,3.9s
NEIC III 17 15 00 31.0–.60 40.13N 142.40E 66–5 4.8b,3.9s
IDC III 17 15 00 30.1–2.2 40.17N 142.50E 58–19 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ19.00000°,λ60.00000°. NP2:ϕ_s32.00000°,δ74.00000°,λ100.00000°. $M_0$8.86000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=40.1.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.2km az=131.0.
IDC Error ellipse: s-maj=15.0km s-min=12.8km az=108.0.
(228) Near east coast of eastern Honshu
ISC III 17 15 41 59.9–.94 36.52N–.05 141.36E–.08 26 3.6b 21 1-60
IDC III 17 15 41 55.5–1.1 36.61N 141.62E 0 4.4L,3.9 ¶600553538
ISCJB III 17 15 41 57.9–.70 36.50N–.04 141.45E–.07 26 3.8s,3.5b
JMA III 17 15 42 03.0–.10 36.58N 141.10E 48–1 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=17.1km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.8km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 17 15 45 14.1–.62 38.49N–.05 142.22E–.06 24 3.9b 48 1-145
IDC III 17 15 45 10.6–.74 38.50N 142.32E 0 4.0,3.9 ¶16478943
ISCJB III 17 15 45 12.6–.45 38.50N–.05 142.29E–.05 24 4.0b,3.9
JMA III 17 15 45 16.5–.20 38.52N 142.05E 43–3 4.1,3.9
NEIC III 17 15 45 17.4–.80 38.50N 142.27E 52–7 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.6km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=6.0km az=170.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.0km az=124.0.
(115) Near coast of Peru
ISC III 17 15 46 27.9–.82 10.4S–.10 78.5W–.10 35 3.8b 17 2-145
IDC III 17 15 46 20.7–1.8 10.32S 77.57W 0 4.2,3.9 ¶16478944
ISCJB III 17 15 46 26.8–.86 10.2S–.10 78.4W–.10 33 3.8b,3.9
NEIC III 17 15 46 33.0–1.5 10.51S 78.13W 93–14 4.3,3.9
ISC Event type fe.
IDC Error ellipse: s-maj=117.6km s-min=43.9km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=23.5km s-min=8.1km az=145.2.
NEIC Event type fe. Error ellipse: s-maj=27.6km s-min=13.6km az=64.0. Felt [II] at Huarmey.
(228) Near east coast of eastern Honshu
ISC III 17 15 51 50.5–.86 35.79N–.03 140.86E–.05 13–5 4.3b 83 0-148
NIED III 17 15 51 00 35.80N 140.90E 11 4.1W ¶600553556
IDC III 17 15 51 48.5–.59 35.74N 140.88E 0 4.2,4.1b
JMA III 17 15 51 50.6–.10 35.81N 140.88E 11–1 4.2,4.1b
ISCJB III 17 15 51 50.2–.48 35.78N–.03 140.85E–.05 21–3 4.2b,4.1b
NEIC III 17 15 51 52.6–2.1 35.84N 140.84E 24–15 4.5b,4.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ37.00000°,λ-77.00000°. NP2:ϕ_s164.00000°,δ55.00000°,λ-100.00000°. $M_0$1.83000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=15.0km az=34.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.8km az=157.3.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.3km az=97.0.
(229) Off east coast of Honshu
ISC III 17 16 00 36.3–.60 36.64N–.04 142.01E–.04 24–3 4.9b,4.1s 412 1-146
NIED III 17 16 00 00 36.70N 142.20E 20 4.7W,4.1s ¶600553573
IDC III 17 16 00 32.1–.52 36.66N 142.18E 0 4.6,4.5
JMA III 17 16 00 34.8–.30 36.72N 142.20E 30 4.6,4.5
BJI III 17 16 00 35.7 36.61N 141.92E 30 5.2b,4.9b
ISCJB III 17 16 00 35.8–.94 36.65N–.02 142.05E–.03 30–6 4.8b,4.2s
MOS III 17 16 00 36.5–.96 37.03N 142.01E 24 5.0b,4.2s
NEIC III 17 16 00 39.1–.76 36.64N 141.92E 46–7 4.9b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ17.00000°,λ67.00000°. NP2:ϕ_s346.00000°,δ74.00000°,λ97.00000°. $M_0$1.24000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=11.9km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=144.6.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=113.2.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=137.0.
(228) Near east coast of eastern Honshu
JMA III 17 16 02 06.4–.10 37.19N 141.36E 49–1 3.7 ¶602667120
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 17 16 30 00.9–1.2 36.73N–.03 140.59E–.06 4–13 3.5b 16 0-60
ISCJB III 17 16 30 00.2–1.4 36.72N–.06 140.7E–.10 9–7 3.5b ¶17196765
JMA III 17 16 30 00.7 36.73N 140.59E 4–1 3.1
IDC III 17 16 30 00.1–5.7 36.94N 140.42E 160–37 3.6,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=21.6km s-min=4.9km az=27.1.
JMA Event type fe.
IDC Error ellipse: s-maj=76.8km s-min=25.5km az=68.0.
(228) Near east coast of eastern Honshu
ISC III 17 16 44 33.4–.38 35.86N–.03 141.51E–.04 37–1 4.8b,4.2s 400 1-149
NIED III 17 16 44 00 36.00N 141.50E 26 4.8W,4.2s ¶600553653
IDC III 17 16 44 28.0–.43 35.90N 141.52E 0 4.6,4.6
MOS III 17 16 44 30.7–1.1 35.89N 141.46E 29 5.0b,4.0s
BJI III 17 16 44 31.3 35.61N 141.47E 42 5.1b,4.7b
ISCJB III 17 16 44 32.9–.43 35.86N–.02 141.42E–.03 45–3 4.8b,4.2s
JMA III 17 16 44 32.1–.10 35.99N 141.52E 40–2 4.8,4.2s
NEIC III 17 16 44 34.4–.50 35.86N 141.40E 45–4 4.9b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ29.00000°,λ-84.00000°. NP2:ϕ_s276.00000°,δ61.00000°,λ-94.00000°. $M_0$1.62000×10^{16}
IDC Error ellipse: s-maj=12.9km s-min=10.6km az=105.0.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=116.3.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.6km az=140.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=132.0.
(39) Central California
ISC III 17 17 18 29.7–1.1 36.63N–.05 121.25W–.05 10 27 0-4
ISCJB III 17 17 18 29.1–.64 36.59N–.04 121.33W–.05 10 ¶16484839
NEIC III 17 17 18 30.1 36.62N 121.23W 6 3.3W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=42.8.
NEIC Event type fe. Felt [III] at Gonzales and [II] at Hollister, Salinas and Soledad. Also felt at Atascadero, Carmel Valley, Castroville, Chualar, Modesto, Monterey and Seaside. After NCEDC. Moment Tensor Solution.
(228) Near east coast of eastern Honshu
ISC III 17 17 22 43.8–.78 40.33N–.05 142.35E–.07 20–6 4.3b 63 1-88
NIED III 17 17 22 00 40.30N 142.40E 5 4.2W ¶16452058
JMA III 17 17 22 43.0–.10 40.31N 142.39E 26–1 4.2
NEIC III 17 17 22 47.6–.80 40.40N 142.34E 49–7 4.5b
IDC III 17 17 22 48.5–2.3 40.31N 142.33E 62–21 4.1,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ40.00000°,λ10.00000°. NP2:ϕ_s80.00000°,δ84.00000°,λ130.00000°. $M_0$2.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.6km az=120.0.
IDC Error ellipse: s-maj=13.9km s-min=12.9km az=110.0.
(39) Central California
ISC III 17 17 30 46.6–1.5 36.59N–.06 121.3W–.10 14–15 18 0-3
NEIC III 17 17 30 47.4 36.62N 121.23W 6 3.0L ¶16499012
ISC Event type fe.
NEIC Event type fe. Felt [II] at Seaside. Also felt at Gonzales, Paicines, Salinas and Soledad. After NCEDC.
(228) Near east coast of eastern Honshu
ISC III 17 17 34 50.6–1.4 38.65N–.09 142.0E–.10 41 3.9b 15 1-68
NIED III 17 17 34 00 38.60N 141.90E 38 4.2W ¶600553720
ISCJB III 17 17 34 48.5–1.0 38.61N–.09 142.2E–.10 41 3.9b
IDC III 17 17 34 49.9–6.5 38.72N 142.25E 42–44 3.9,3.8
JMA III 17 17 34 52.0–.10 38.64N 141.88E 51–1 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ44.00000°,λ-109.00000°. NP2:ϕ_s347.00000°,δ49.00000°,λ-73.00000°. $M_0$2.59000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=11.5km az=175.6.
IDC Error ellipse: s-maj=68.4km s-min=26.3km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(502) Arkansas
ISC III 17 17 59 46.4–1.3 35.23N–.03 92.37W–.03 1–11 44 1-5
NEIC III 17 17 59 47.0 35.24N 92.39W 5 3.0 ¶16918863
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Blevins, Ida, Little Rock and Pangburn. Felt at West Plains, Missouri. After CERI.
(228) Near east coast of eastern Honshu
ISC III 17 18 17 29.5–.46 38.31N–.05 142.39E–.06 35 4.2b 86 1-145
NIED III 17 18 17 00 38.30N 142.30E 17 4.2W ¶16453161
JMA III 17 18 17 27.6–.20 38.30N 142.32E 32–4 4.4
ISCJB III 17 18 17 28.2–.35 38.32N–.04 142.33E–.05 35 4.1b,3.2s
IDC III 17 18 17 29.0–.52 38.32N 142.27E 26–3 4.1,4.0
NEIC III 17 18 17 29.1–2.0 38.33N 142.33E 28–14 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ33.00000°,λ-137.00000°. NP2:ϕ_s344.00000°,δ68.00000°,λ-65.00000°. $M_0$2.18000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.9km az=144.0.
IDC Error ellipse: s-maj=13.1km s-min=10.8km az=107.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=126.0.
(228) Near east coast of eastern Honshu
ISC III 17 18 26 16.7–2.1 35.99N–.06 141.24E–.07 6–12 3.8b 36 0-147
NIED III 17 18 26 00 36.00N 141.20E 8 3.8W ¶16453163
IDC III 17 18 26 15.7–.70 35.94N 141.21E 0 4.0,3.8
ISCJB III 17 18 26 16.5–1.4 35.98N–.05 141.32E–.06 15–9 3.8b,3.8
NEIC III 17 18 26 17.3–3.3 35.95N 141.20E 10–20 4.6b,3.8
JMA III 17 18 26 18.4–.10 35.98N 141.19E 29–2 3.8,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ44.00000°,λ65.00000°. NP2:ϕ_s112.00000°,δ51.00000°,λ112.00000°. $M_0$4.91000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=18.1km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.4km az=37.6.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.4km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 17 18 38 08.9–.56 37.18N–.04 141.22E–.05 26–3 4.7b,4.1s 198 0-147
NIED III 17 18 38 00 37.10N 141.30E 26 4.6W,4.1s ¶602443676
MOS III 17 18 38 08.7–1.1 37.27N 141.14E 33 4.9b,4.1s
ISCJB III 17 18 38 08.5–.66 37.15N–.03 141.19E–.04 33–4 4.6b,4.1s
JMA III 17 18 38 09.3–.10 37.18N 141.17E 30–1 4.7,4.1s
IDC III 17 18 38 09.6–.52 37.20N 141.05E 28–3 4.4,4.3
NEIC III 17 18 38 11.5–.62 37.23N 141.06E 41–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ44.00000°,λ-51.00000°. NP2:ϕ_s235.00000°,δ57.00000°,λ-122.00000°. $M_0$1.03000×10^{16}
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=93.9.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=28.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=10.1km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=136.0. Recorded [3 JMA] in Fukushima.
(229) Off east coast of Honshu
ISC III 17 18 55 35.2–.36 37.18N–.03 142.41E–.03 16–1 5.7b,5.1s 1049 1-164
NIED III 17 18 55 00 37.10N 142.60E 8 5.4W,5.1s ¶602443674
JMA III 17 18 55 31.9–.30 37.14N 142.52E 9 5.7,5.1s
ISCJB III 17 18 55 32.7–.76 37.10N–.02 142.36E–.02 9–4 5.5b,5.2s
IDC III 17 18 55 32.2–.38 37.04N 142.46E 0 5.5,5.5b
GCMT III 17 18 55 36.9–.10 37.11N 142.39E 12 5.4W,5.5b
BJI III 17 18 55 36.6 37.20N 142.05E 27 5.6s,5.5b
NEIC III 17 18 55 36.9–.61 37.13N 142.34E 26–4 5.6b,5.5W
MOS III 17 18 55 38.3–.84 37.50N 142.31E 36 5.8b,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ47.00000°,λ-132.00000°. NP2:ϕ_s8.00000°,δ57.00000°,λ-54.00000°. $M_0$1.56000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=148.8.
IDC Error ellipse: s-maj=11.1km s-min=9.8km az=99.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s86,c128; s114,c227;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.31±.02 $M_{\theta\theta}$-0.15±.02; $M_{\phi\phi}$1.46±.02; $M_{r\theta}$-0.20±.06; $M_{\theta\phi}$-0.67±.02; $M_{\phi r}$-0.11±.05; Best double couple: NP1: ϕ_s353.00000°,δ47.00000°,λ-72.00000°. NP2:ϕ_s147.00000°,δ46.00000°,λ-109.00000°. Principal axes: T 1.7000,Plg1.0000°,Azm70.0000°; N -0.3330,Plg13.0000°,Azm160.0000° ; P -1.3640,Plg77.0000°,Azm337.0000° $M_0$1.53200×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=137.0. Recorded [3 JMA] in Ibaraki. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.98 $M_{\theta\theta}$0.47 $M_{\phi\phi}$1.51 $M_{r\theta}$-0.86 $M_{\theta\phi}$-0.99 $M_{\phi r}$-0.67 Best double couple: NP1:ϕ_s352.00000°,δ52.00000° ,λ-58.00000°. NP2:ϕ_s127.00000°,δ48.00000°,λ-12.00000°. Principal axes: T 2.1100,Plg2.0000°,Azm60.0000°; N 0.3700,Plg25.0000°,Azm151.0000° ; P -2.4800,Plg65.0000°,Azm325.0000° $M_0$2.30000×10^{17}

MOS Error ellipse: s-maj=5.6km s-min=3.5km az=105.7.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 19 02 55.2–.43**	**38.26N–.05**	**142.29E–.07**	**37–1**	**4.8b**	**125**	**1-145**
NIED	III	17 19 02 00	38.30N	142.30E	41	4.8W		**¶16461871**
JMA	III	17 19 02 53.4–.20	38.27N	142.28E	35–4	4.7		
ISCJB	III	17 19 02 53.6–.75	38.22N–.04	142.29E–.06	39–5	4.7b,4.3s		
IDC	III	17 19 02 55.5–.42	38.28N	142.18E	37–3	4.5,4.4		
NEIC	III	17 19 02 56.1–.75	38.24N	142.29E	46–6	5.0b,4.4		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ49.00000°,λ-58.00000°. NP2:ϕ_s14.00000°,δ50.00000°,λ-122.00000°. $M_0$1.68000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.5km az=22.7.

IDC Error ellipse: s-maj=11.5km s-min=10.6km az=111.0.

NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=123.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 19 05 41.9–.41**	**36.26N–.04**	**141.77E–.04**	**23–2**	**5.2s,5.0b**	**472**	**1-147**
NIED	III	17 19 05 00	36.20N	141.90E	14	4.8W,5.0b		**¶602667381**
MOS	III	17 19 05 40.1–.85	36.19N	141.93E	27	5.2b,5.0b		
JMA	III	17 19 05 41.2–.20	36.24N	141.91E	57–5	4.8,5.0b		
BJI	III	17 19 05 41.8	36.02N	141.46E	25	5.4b,5.2s		
IDC	III	17 19 05 42.3–.54	36.12N	141.85E	28–4	4.7,4.6		
ISCJB	III	17 19 05 42.6–.54	36.18N–.02	141.74E–.03	39–4	5.2s,5.0b		
NEIC	III	17 19 05 42.6–1.4	36.20N	141.77E	26–10	5.1b,5.0b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ16.00000°,λ132.00000°. NP2:ϕ_s4.00000°,δ78.00000°,λ79.00000°. $M_0$1.62000×10^{16}

MOS Error ellipse: s-maj=8.9km s-min=5.6km az=125.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

IDC Error ellipse: s-maj=12.9km s-min=10.5km az=150.0.

ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=25.8.

NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=131.0.

(259) Mindanao

MAN	**III**	**17 19 07 56**	**8.56N**	**124.86E**	**9**	**4.5b,3.4L**		**¶601668861**

MAN Event type fe. INTENSITY III - HABAAN AND TAGOLOAN MISAMIS ORIENTAL; INTENSITY II - MALASAG CAGAYAN DE ORO CITY; LUMBIA MISAMIS ORIENTAL.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 19 11 33.8–1.1**	**36.79N–.03**	**140.62E–.05**	**9–8**	**3.6b**	**18**	**0-60**
ISCJB	III	17 19 11 32.8–.86	36.76N–.04	140.72E–.07	15–6	3.4b		**¶600553890**
IDC	III	17 19 11 32.7–1.8	36.65N	140.65E	0	3.6,3.4		
JMA	III	17 19 11 33.8	36.80N	140.58E	5–1	3.4,3.4		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=19.9.

IDC Error ellipse: s-maj=41.2km s-min=22.5km az=52.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 19 40 23.2–1.1**	**36.84N–.03**	**140.48E–.03**	**6–8**	**3.5b**	**27**	**0-76**
ISCJB	III	17 19 40 22.8–.59	36.83N–.03	140.56E–.04	15–5	3.5b		**¶17196784**
IDC	III	17 19 40 22.2–.91	36.81N	140.40E	0	3.8,3.6		
JMA	III	17 19 40 23.1	36.84N	140.51E	5–2	3.7,3.6		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.0km az=33.6.

IDC Error ellipse: s-maj=22.3km s-min=19.7km az=163.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 20 09 15.0–1.1**	**35.85N–.04**	**140.88E–.06**	**13–6**	**3.6b**	**19**	**0-81**
NIED	III	17 20 09 00	35.80N	140.80E	17	3.6W		**¶17196794**
IDC	III	17 20 09 12.2–1.2	35.59N	140.92E	0	3.9,3.9s		
ISCJB	III	17 20 09 14.3–.93	35.83N–.04	140.95E–.08	19–5	4.2s,3.5b		
JMA	III	17 20 09 15.1–.10	35.80N	140.83E	19–1	3.9,3.5b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ17.00000°,λ-108.00000°. NP2:ϕ_s194.00000°,δ74.00000°,λ-85.00000°. $M_0$3.31000×10^{14}

IDC Error ellipse: s-maj=31.1km s-min=24.1km az=43.0.

ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.3km az=174.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 20 31 30.7–1.5**	**36.87N–.07**	**140.60E–.05**	**4–12**	**3.8b**	**17**	**0-61**
IDC	III	17 20 31 29.8–1.3	36.87N	140.64E	0	4.0s,4.0		**¶603049896**
ISCJB	III	17 20 31 30.9–.84	36.90N–.05	140.70E–.06	18–7	3.6b,4.0		
JMA	III	17 20 31 31.5	36.92N	140.59E	6–2	3.6,4.0		

ISC Event type fe.

IDC Error ellipse: s-maj=27.9km s-min=22.3km az=76.0.

ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=8.3km az=149.1.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 20 42 52.0–1.9**	**35.91N–.08**	**141.2E–.10**	**10**		**8**	**0-60**
IDC	III	17 20 42 29.5–2.7	38.77N	142.55E	0	4.0L,3.7		**¶602666612**
ISCJB	III	17 20 42 49.6–1.4	35.96N–.06	141.4E–.10	10	3.6b,3.7		
JMA	III	17 20 42 53.6–.10	35.92N	141.08E	24–1	3.3,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=67.5km s-min=34.3km az=60.0.

ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=9.0km az=166.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 21 06 30.2–.48**	**35.72N–.04**	**141.40E–.04**	**30–3**	**4.9b,4.3s**	**463**	**0-145**
NIED	III	17 21 06 00	35.80N	141.50E	26	4.7W,4.3s		**¶16334568**
IDC	III	17 21 06 25.3–.38	35.67N	141.40E	0	4.7,4.6		
BJI	III	17 21 06 26.2	35.56N	141.63E	34	5.2b,4.6b		
JMA	III	17 21 06 27.7–.20	35.79N	141.45E	21–2	4.8,4.6b		
MOS	III	17 21 06 29.0–.96	35.68N	141.32E	33	5.1b,4.0s		
ISCJB	III	17 21 06 29.2–.63	35.68N–.02	141.31E–.03	33–4	4.8b,4.3s		
NEIC	III	17 21 06 30.6–.51	35.67N	141.32E	32–3	4.9b,4.3s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ42.00000°,λ-88.00000°. NP2:ϕ_s178.00000°,δ48.00000°,λ-92.00000°. $M_0$1.48000×10^{16}

IDC Error ellipse: s-maj=11.5km s-min=9.4km az=108.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=7.3km s-min=4.6km az=115.5.

ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=159.8.

NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=148.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 21 09 52.9–1.9**	**36.76N–.06**	**141.21E–.08**	**8–10**	**4.0b**	**28**	**0-69**
NIED	III	17 21 09 00	36.80N	141.20E	8	3.9W		**¶600554128**
ISCJB	III	17 21 09 50.6–1.3	36.73N–.05	141.35E–.06	7–6	3.9b		
IDC	III	17 21 09 51.1–.96	36.64N	141.28E	0	4.1L,4.0		
JMA	III	17 21 09 52.7–.10	36.79N	141.23E	35–1	4.0,4.0		
NEIC	III	17 21 09 56.5–2.3	36.59N	141.27E	37–17	4.0b,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ40.00000°,λ-128.00000°. NP2:ϕ_s234.00000°,δ60.00000°,λ-63.00000°. $M_0$9.32000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=8.3km az=38.6.

IDC Error ellipse: s-maj=24.1km s-min=17.8km az=79.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=21.9km s-min=14.1km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 21 18 13.9–.54**	**37.45N–.04**	**141.38E–.05**	**33–3**	**4.3b**	**78**	**1-147**
NIED	III	17 21 18 00	37.40N	141.40E	32	4.2W		**¶602443687**
JMA	III	17 21 18 13.8–.10	37.44N	141.36E	34–1	4.4		
IDC	III	17 21 18 13.7–.56	37.38N	141.25E	35–3	4.6L,4.1		
NEIC	III	17 21 18 24.7–.58	37.86N	139.89E	50–5	4.6b,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ62.00000°,λ-157.00000°. NP2:ϕ_s193.00000°,δ70.00000°,λ-30.00000°. $M_0$2.51000×10^{15}

JMA Event type fe.

IDC Error ellipse: s-maj=15.2km s-min=12.7km az=85.0.

NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=146.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 21 24 20.5–.34**	**39.10N–.04**	**142.44E–.04**	**30–2**	**4.8b,3.8s**	**371**	**1-155**
NIED	III	17 21 24 00	39.10N	142.40E	32	4.5W,3.8s		**¶602666543**
JMA	III	17 21 24 20.4–.20	39.15N	142.43E	32–3	4.7,3.8s		
ISCJB	III	17 21 24 20.2–.15	39.08N–.02	142.35E–.03	34	4.7b,3.7s		
MOS	III	17 21 24 20.2–.95	39.18N	142.33E	33	5.0b,3.7s		
IDC	III	17 21 24 21.4–.46	39.10N	142.34E	33–3	4.5,4.5		
NEIC	III	17 21 24 23.0–.37	39.11N	142.28E	45–3	4.8b,4.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ28.00000°,λ-124.00000°. NP2:ϕ_s180.00000°,δ68.00000°,λ-74.00000°. $M_0$6.97000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=150.8.

MOS Error ellipse: s-maj=7.3km s-min=5.6km az=99.0.

IDC Error ellipse: s-maj=11.7km s-min=10.4km az=120.0.

NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 21 51 40.2–2.0**	**36.59N–.07**	**141.1E–.10**	**32–11**	**3.5b**	**16**	**0-57**
IDC	III	17 21 51 33.9–2.5	36.69N	141.53E	0	3.4,3.3		**¶17196821**
ISCJB	III	17 21 51 40.6–1.2	36.60N–.06	141.1E–.10	49–7	3.4b,3.3		
JMA	III	17 21 51 41.5–.10	36.63N	141.04E	45–1	3.2,3.3		

ISC Event type ke.

IDC Error ellipse: s-maj=65.7km s-min=29.5km az=61.0.

ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=9.2km az=27.1.

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**17 21 56 24.6–1.2**	**37.02N–.04**	**140.66E–.05**	**5–10**	**3.8b**	**17**	**0-57**
ISCJB	III	17 21 56 23.8–1.2	37.06N–.05	140.93E–.08	13–4	3.7b		**¶17196823**
IDC	III	17 21 56 23.4–2.0	37.17N	140.91E	0	3.8,3.7b		
JMA	III	17 21 56 25.6	37.04N	140.78E	9–1	3.5,3.7b		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=8.3km az=164.7.

IDC Error ellipse: s-maj=39.9km s-min=30.6km az=55.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 22 01 13.0–.59**	**38.17N–.05**	**142.00E–.06**	**30**	**3.9b**	**45**	**1-146**
NIED	III	17 22 01 00	38.10N	142.10E	5	4.2W		**¶600554244**
IDC	III	17 22 01 08.3–.65	38.12N	141.95E	0	4.2,4.0		
JMA	III	17 22 01 09.2–.20	38.14N	142.14E	17–3	4.4,4.0		
ISCJB	III	17 22 01 10.9–.42	38.13N–.04	142.10E–.05	30	3.9b,2.9s		
NEIC	III	17 22 01 12.5–3.2	38.12N	141.95E	28–21	4.0b,2.9s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ37.00000°,λ-102.00000°. NP2:ϕ_s166.00000°,δ54.00000°,λ-81.00000°. $M_0$2.21000×10^{15}

IDC Error ellipse: s-maj=17.9km s-min=15.5km az=99.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.4km az=26.3.

NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.2km az=167.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 22 17 59.6–1.2**	**36.39N–.05**	**141.17E–.09**	**32**		**11**	**1-56**
IDC	III	17 22 17 55.6–1.7	36.32N	141.35E	0	3.9,3.6b		**¶600554297**
ISCJB	III	17 22 17 58.5–1.0	36.39N–.05	141.22E–.09	32	3.7b,3.6b		
JMA	III	17 22 17 59.1–.10	36.41N	141.18E	44–2	3.1,3.6b		

ISC Event type ke.

IDC Error ellipse: s-maj=44.6km s-min=33.8km az=141.0.

ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.9km az=172.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**17 23 01 45.9–.10**	**35.85N**	**140.84E**	**7–1**	**3.9**		**¶602666343**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 23 11 38.0–.32**	**38.97N–.04**	**142.67E–.04**	**27**	**4.8b,4.0s**	**352**	**1-151**
NIED	III	17 23 11 00	39.00N	142.70E	5	4.5W,4.0s		**¶16339121**
IDC	III	17 23 11 33.5–.47	38.90N	142.64E	0	4.6,4.5		
JMA	III	17 23 11 34.6–.20	38.98N	142.69E	12–2	4.7,4.5		
ISCJB	III	17 23 11 36.8–.15	38.95N–.03	142.61E–.02	27	4.8b,4.0s		
MOS	III	17 23 11 37.5–.90	38.97N	142.58E	33	5.0b,4.0s		
NEIC	III	17 23 11 40.8–.40	38.98N	142.57E	45–3	4.8b,4.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ42.00000°,λ-87.00000°. NP2:ϕ_s289.00000°,δ48.00000°,λ-93.00000°. $M_0$6.61000×10^{15}

IDC Error ellipse: s-maj=13.5km s-min=12.5km az=125.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.8.

MOS Error ellipse: s-maj=7.4km s-min=5.3km az=100.1.

NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 23 16 28.8–1.9**	**37.37N–.04**	**141.89E–.06**	**12–11**	**3.8b**	**33**	**1-77**
NIED	III	17 23 16 00	37.40N	141.90E	41	4.0W		**¶602666323**
JMA	III	17 23 16 32.0–.20	37.44N	141.87E	32–3	4.2		
IDC	III	17 23 16 36.0–2.6	37.37N	141.78E	71–25	3.8,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ25.00000°,λ39.00000°. NP2:ϕ_s98.00000°,δ75.00000°,λ110.00000°. $M_0$1.15000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=21.7km s-min=16.3km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**17 23 36 56.4–1.2**	**39.06N–.08**	**142.39E–.09**	**27**	**3.7b**	**15**	**1-59**
NIED	III	17 23 36 00	39.00N	142.40E	29	3.7W		**¶600554448**
ISCJB	III	17 23 36 55.1–1.0	39.03N–.08	142.47E–.08	27	3.5b		
JMA	III	17 23 36 56.3–.10	38.98N	142.39E	25–3	4.1		
IDC	III	17 23 37 01.0–4.5	38.85N	142.33E	74–42	3.6,3.6L		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ22.00000°,λ-115.00000°. NP2:ϕ_s164.00000°,δ70.00000°,λ-80.00000°. $M_0$3.77000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=8.8km az=160.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=32.1km s-min=24.5km az=80.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 00 41 19.3–.38**	**35.90N–.03**	**141.67E–.03**	**29–2**	**5.3b,5.0s**	**918**	**1-158**
NIED	III	18 00 41 00	36.00N	141.90E	8	5.4W,5.0s		**¶16334576**
IDC	III	18 00 41 14.6–.36	35.84N	141.75E	0	5.1,5.1		
JMA	III	18 00 41 16.2–.30	35.99N	141.83E	28	5.4,5.1		
ISCJB	III	18 00 41 17.2–.71	35.87N–.02	141.64E–.02	22–4	5.3b,5.0s		
NEIC	III	18 00 41 18.7–1.2	35.88N	141.64E	23–8	5.3b,5.0s		
GCMT	III	18 00 41 18.7–.20	35.92N	141.72E	12	5.1W,5.0s		
BJI	III	18 00 41 18.4	36.08N	141.50E	30	5.2b,5.2b		
MOS	III	18 00 41 18.8–.93	35.94N	141.62E	33	5.6b,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ25.00000°,λ-27.00000°. NP2:ϕ_s109.00000°,δ79.00000°,λ-113.00000°. $M_0$1.27000×10^{17}

IDC Error ellipse: s-maj=10.9km s-min=9.8km az=108.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=152.6.

NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=138.0. Recorded [3 JMA] in Chiba and Ibaraki.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c64; s114,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.00±.11 $M_{\theta\theta}$-2.08±.10; $M_{\phi\phi}$5.08±.09;

$M_{r\theta}$0.55±.31; $M_{\theta\theta}$-3.21±.08; $M_{\theta r}$-0.41±.28; Best double couple: NP1:ϕ_s300.00000°,δ69.00000°,λ-151.00000°. NP2:ϕ_s199.00000°,δ64.00000°,λ-24.00000°. Principal axes:
T 6.3440,Plg4.0000°,Azm69.0000°; N -2.7840,Plg55.0000°,Azm334.0000°
; P -3.5600,Plg35.0000°,Azm161.0000° $M_0$4.95200×10^{16}

MOS Error ellipse: s-maj=6.3km s-min=3.8km az=116.5.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 00 46 51.2–.10**	**38.93N**	**142.31E**	**30–2**	**4.0**		**¶602671904**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 00 52 05.4–1.2**	**35.71N–.04**	**141.37E–.04**	**13–7**	**4.7b**	**263**	**0-147**
NIED	III	18 00 52 00	35.80N	141.40E	26	4.5W		**¶16334577**
IDC	III	18 00 52 03.2–.48	35.65N	141.39E	0	4.6,4.5		
NEIC	III	18 00 52 05.7–1.9	35.64N	141.35E	14–12	4.8b,4.5		
ISCJB	III	18 00 52 05.6–.76	35.64N–.03	141.37E–.04	26–5	4.7b,4.5		
JMA	III	18 00 52 06.0–.20	35.77N	141.43E	24–2	4.4,4.5		
MOS	III	18 00 52 06.9–1.0	35.73N	141.40E	33	4.9b,4.5		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ40.00000°,λ-79.00000°. NP2:ϕ_s169.00000°,δ51.00000°,λ-99.00000°. $M_0$5.83000×10^{15}

IDC Error ellipse: s-maj=13.3km s-min=11.3km az=113.0.

NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=137.0.

ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=39.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=9.2km s-min=5.6km az=103.7.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 01 39 24.3–.10**	**38.87N**	**142.53E**	**20–2**	**3.8**		**¶603049908**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 01 46 48.3–.20**	**38.23N**	**142.13E**	**16–2**	**4.3**		**¶602672447**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 01 50 21.3–.86**	**36.72N–.03**	**140.51E–.04**	**11–5**	**4.3b**	**68**	**0-83**
NIED	III	18 01 50 00	36.70N	140.60E	5	4.1W		**¶16338677**
IDC	III	18 01 50 19.9–.64	36.70N	140.54E	0	4.2,4.1		
ISCJB	III	18 01 50 20.8–.50	36.70N–.03	140.63E–.04	19–3	4.2b,4.1		
JMA	III	18 01 50 21.6	36.73N	140.59E	5–3	4.2,4.1		
NEIC	III	18 01 50 23.5–2.0	36.74N	140.43E	24–14	4.5b,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ30.00000°,λ-66.00000°. NP2:ϕ_s167.00000°,δ63.00000°,λ-103.00000°. $M_0$1.77000×10^{15}

IDC Error ellipse: s-maj=16.7km s-min=14.0km az=148.0.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.5km az=30.2.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ55.00000°,λ-88.00000°. NP2:ϕ_s2.00000°,δ35.00000°,λ-93.00000°. Principal axes: T Plg10.0000°,Azm274.0000°; N Plg2.0000°,Azm4.0000°; P Plg80.0000°,Azm104.0000°

NEIC Event type fe. Error ellipse: s-maj=8.7km s-min=5.5km az=142.0. Recorded [3 JMA] in Ibaraki.

(76) Off coast of central America

ISC	**III**	**18 02 33 41.6–.68**	**12.51N–.10**	**88.97W–.09**	**40**	**4.3b**	**194**	**2-148**
IDC	III	18 02 33 40.0–1.6	13.17N	88.52W	0	4.1,3.8		**¶16427655**
BJI	III	18 02 33 42.0	12.40N	89.00W	67	5.0s,4.7		
NEIC	III	18 02 33 43.0–.80	12.41N	88.95W	64–7	4.4b,3.9		

ISC Event type fe.

IDC Error ellipse: s-maj=51.7km s-min=18.1km az=42.0.

NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.5km az=221.0. Felt [I] at San Salvador.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 02 43 43.2–1.5**	**39.06N–.08**	**142.4E–.10**	**27**	**3.7b**	**14**	**1-63**
NIED	III	18 02 43 00	39.10N	142.40E	35	3.7W		**¶602671857**
ISCJB	III	18 02 43 42.1–1.1	39.04N–.07	142.47E–.09	27	3.5b		
JMA	III	18 02 43 43.7–.10	39.06N	142.39E	32–1	4.0		
IDC	III	18 02 43 52.2–3.3	38.49N	142.22E	144–30	3.6,3.3		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ12.00000°,λ-112.00000°. NP2:ϕ_s198.00000°,δ79.00000°,λ-86.00000°. $M_0$3.47000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=9.4km az=41.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=28.7km s-min=19.1km az=84.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 02 47 46.4–.49**	**37.21N–.03**	**141.91E–.03**	**28–2**	**5.2b,4.4s**	**1082**	**1-155**
NIED	III	18 02 47 00	37.20N	141.90E	35	5.0W,4.4s		**¶602443696**
BJI	III	18 02 47 45.0	37.13N	141.70E	26	5.2b,4.9b		
GCMT	III	18 02 47 47.6–.30	37.38N	141.90E	33–0	5.0W,4.9b		
ISCJB	III	18 02 47 47.3–.43	37.19N–.02	141.81E–.02	45–3	5.1b,4.3s		
MOS	III	18 02 47 47.3–.80	37.53N	141.81E	31	5.3b,4.5s		
JMA	III	18 02 47 47.3–.20	37.19N	141.87E	44–3	5.2,4.5s		
NEIC	III	18 02 47 47.6–.96	37.18N	141.77E	34–6	5.2b,4.5s		
IDC	III	18 02 47 49.7–1.8	37.21N	141.80E	52–16	4.9,4.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ25.00000°,λ116.00000°. NP2:ϕ_s181.00000°,δ68.00000°,λ78.00000°. $M_0$3.74000×10^{16}

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c60; s84,c125; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.37±.17 $M_{\theta\theta}$-0.14±.12; $M_{\phi\phi}$-3.24±.12; $M_{r\theta}$1.40±.14; $M_{\theta\phi}$-1.07±.08; $M_{\theta r}$-2.15±.13; Best double couple: NP1:ϕ_s173.00000°,δ63.00000°,λ66.00000°. NP2:ϕ_s37.00000°,δ36.00000°,λ129.00000°. Principal axes:
T 4.5880,Plg64.0000°,Azm41.0000°; N -0.6030,Plg22.0000°,Azm185.0000°
; P -3.9900,Plg14.0000°,Azm280.0000° $M_0$4.28900×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=164.7.

MOS Error ellipse: s-maj=6.1km s-min=4.2km az=96.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=142.0. Recorded [3 JMA] in Fukushima.

IDC Error ellipse: s-maj=11.7km s-min=10.2km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 02 55 16.2–.55**	**39.53N–.06**	**142.61E–.06**	**29**	**4.2b**	**59**	**1-88**
NIED	III	18 02 55 00	39.50N	142.70E	17	4.1W		**¶16427657**
JMA	III	18 02 55 13.3–.20	39.47N	142.73E	24–2	4.0		
ISCJB	III	18 02 55 14.3–.38	39.48N–.05	142.71E–.05	29	4.2b		
NEIC	III	18 02 55 16.8–1.1	39.43N	142.64E	36–10	4.4b		
IDC	III	18 02 55 20.9–2.5	39.32N	142.57E	78–22	4.1,3.9		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ14.00000°,λ-103.00000°. NP2:ϕ_s154.00000°,δ76.00000°,λ-87.00000°. $M_0$1.47000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=155.3.

NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.4km az=139.0.

IDC Error ellipse: s-maj=16.2km s-min=14.3km az=138.0.

(229) Off east coast of Honshu

ISC	**III**	**18 03 23 56.2–.43**	**37.79N–.03**	**143.51E–.03**	**23–2**	**5.5b,5.0s**	**1460**	**2-163**
NIED	III	18 03 23 00	37.80N	143.40E	5	5.5W,5.0s		**¶16334584**
IDC	III	18 03 23 52.2–.35	37.73N	143.65E	0	5.2,5.1		
GCMT	III	18 03 23 53.8–.10	37.86N	143.47E	12	5.5W,5.1		
NEIC	III	18 03 23 53.8–1.2	37.76N	143.49E	6–7	5.6b,5.0s		
BJI	III	18 03 23 54.5	37.87N	143.28E	9	5.5s,5.4b		
ISCJB	III	18 03 23 54.8–.09	37.77N–.02	143.49E–.02	22	5.4b,5.1s		
JMA	III	18 03 23 55.0–.30	37.80N	143.45E	44	5.5,5.1s		
MOS	III	18 03 23 57.0–1.0	37.88N	143.50E	33	5.6b,5.1s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ23.00000°,λ-85.00000°. NP2:ϕ_s193.00000°,δ67.00000°,λ-92.00000°. $M_0$1.76000×10^{17}

IDC Error ellipse: s-maj=10.8km s-min=9.5km az=90.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c176; s133,c316;Duration: 1⁋3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49±.01 $M_{\theta\theta}$0.06±.01; $M_{\phi\phi}$1.43±.01; $M_{r\theta}$0.29±.04; $M_{\theta\phi}$0.34±.01; $M_{\theta r}$1.22±.04; Best double couple: NP1:ϕ_s193.00000°,δ65.00000°,λ-90.00000°. NP2:ϕ_s13.00000°,δ25.00000°,λ-90.00000°. Principal axes:
T 1.9650,Plg20.0000°,Azm283.0000°; N -0.0180,Plg0.0000°,Azm13.0000°
; P -1.9450,Plg70.0000°,Azm104.0000° $M_0$1.95500×10^{17}

NEIC Event type se. Error ellipse: s-maj=2.9km s-min=1.9km az=142.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.7km az=164.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

MOS Error ellipse: s-maj=5.7km s-min=3.9km az=104.1.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 03 31 03.5–.10**	**36.40N**	**141.26E**	**37–2**	**3.5**		**¶602671775**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 03 51 31.3–.20**	**38.90N**	**142.35E**	**21–2**	**3.7**		**¶602671251**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 04 22 01.3–.10**	**37.43N**	**141.47E**	**43–2**	**3.7**		**¶602671132**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 04 37 57.1–.20**	**37.74N**	**141.81E**	**36–3**	**3.7**		**¶602671080**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 04 44 27.6–2.2**	**36.41N–.05**	**141.34E–.07**	**17–13**	**3.5b**	**21**	**1-147**
IDC	III	18 04 44 24.4–1.2	36.17N	141.59E	0	3.8,3.5		**¶600554992**
ISCJB	III	18 04 44 28.6–1.1	36.43N–.04	141.30E–.08	27–6	3.5b,3.5		
JMA	III	18 04 44 29.0–.10	36.45N	141.28E	45–2	3.6,3.5		

ISC Event type ke.

IDC Error ellipse: s-maj=31.5km s-min=30.4km az=170.0.

ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.9km az=179.4.

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**18 04 56 39.1–.20**	**39.18N**	**142.36E**	**28–2**	**3.9**		
NIED	III	18 04 56 00	39.20N	142.40E	53	4.5W		**¶600555022**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ27.00000°,λ-9.00000°. NP2:ϕ_s115.00000°,δ86.00000°,λ-117.00000°. $M_0$5.47000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**III**	**18 05 13 14.3–.20**	**39.18N**	**142.46E**	**31–1**	**4.3**		
NIED	III	18 05 13 00	39.20N	142.50E	47	4.1W		**¶600555065**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ32.00000°,λ-39.00000°. NP2:ϕ_s262.00000°,δ71.00000°,λ-116.00000°. $M_0$1.50000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**III**	**18 05 15 51.4–.10**	**35.75N**	**140.72E**	**17–1**	**3.7**		**¶602672292**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 05 57 55.1–1.8**	**37.50N–.06**	**141.27E–.08**	**27–13**	**3.8b**	**37**	**1-147**
NIED	III	18 05 57 00	37.50N	141.20E	29	3.8W		**¶16442634**
JMA	III	18 05 57 55.8	37.48N	141.24E	29–1	4.1		
NEIC	III	18 05 57 59.2–1.5	37.47N	141.09E	64–14	4.4b		
IDC	III	18 05 57 59.3–4.2	37.44N	141.02E	62–38	3.8L,3.7		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ38.00000°,λ-162.00000°. NP2:ϕ_s177.00000°,δ79.00000°,λ-53.00000°. $M_0$6.09000×10^{14}

JMA Event type fe.

NEIC Event type se. Error ellipse: s-maj=14.3km s-min=12.8km az=198.0.

IDC Error ellipse: s-maj=31.8km s-min=23.6km az=64.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 06 07 33.1–1.6**	**35.73N–.05**	**141.07E–.10**	**31–8**	**3.8b**	**18**	**0-56**
IDC	III	18 06 07 26.6–3.6	35.69N	141.55E	0	3.8,3.7		**¶600555128**
JMA	III	18 06 07 33.9–.10	35.72N	140.96E	35–1	3.4,3.7		
ISCJB	III	18 06 07 33.2–1.2	35.73N–.05	141.1E–.10	36–8	3.6b,2.5s		

ISC Event type ke.

JMA Event type fe.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 06 23 03.7–.76**	**36.94N–.06**	**141.42E–.07**	**19–2**	**3.7b**	**30**	**1-147**
NIED	III	18 06 23 00	37.00N	141.40E	14	3.8W		**¶17196948**
ISCJB	III	18 06 23 02.1–1.3	36.93N–.05	141.53E–.07	21–8	3.6b		
IDC	III	18 06 23 04.8–.78	36.97N	141.43E	27–5	3.7,3.6		
JMA	III	18 06 23 04.4–.20	36.96N	141.37E	40–1	4.0,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ25.00000°,λ-106.00000°. NP2:ϕ_s57.00000°,δ66.00000°,λ-83.00000°. $M_0$5.18000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=8.2km az=157.2.

IDC Error ellipse: s-maj=21.8km s-min=17.2km az=75.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 07 03 10.1–1.6**	**38.49N–.09**	**141.5E–.10**	**66**	**3.4b**	**9**	**1-59**
IDC	III	18 07 03 06.6–1.4	37.98N	140.85E	0	3.5,3.3		**¶17196954**
JMA	III	18 07 03 07.8–.10	38.39N	141.66E	25–1	3.9,3.3		
ISCJB	III	18 07 03 08.9–1.4	38.45N–.08	141.5E–.10	66	3.2b,3.3		

ISC Event type ke.

JMA Event type fe.

ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 07 10 26.4–1.3**	**35.97N–.09**	**141.7E–.10**	**26**	**3.7b**	**13**	**1-56**
JMA	III	18 07 10 24.2–.10	36.60N	141.04E	45–1	3.4		**¶600555178**
IDC	III	18 07 10 26.4–2.2	35.96N	141.74E	26–6	3.8,3.7		

ISC Event type ke.

JMA Event type fe.

IDC Error ellipse: s-maj=50.8km s-min=21.6km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 07 28 23.4–.63**	**36.76N–.05**	**141.06E–.06**	**27–4**	**4.2b,3.7s**	**46**	**0-149**
NIED	III	18 07 28 00	36.80N	141.10E	11	3.8W,3.7s		**¶16442636**
ISCJB	III	18 07 28 22.0–.88	36.73N–.04	141.18E–.06	31–5	4.3b,3.8s		
NEIC	III	18 07 28 23.4–.37	36.78N	141.11E	26–2	4.9b,3.8s		
IDC	III	18 07 28 23.8–.71	36.78N	141.07E	27–5	3.8,3.8s		
JMA	III	18 07 28 23.0–.10	36.80N	141.14E	35–1	4.0,3.8s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ45.00000°,λ-56.00000°. NP2:ϕ_s12.00000°,δ54.00000°,λ-119.00000°. $M_0$5.92000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.4km az=175.1.

NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.3km az=131.0.

IDC Error ellipse: s-maj=19.7km s-min=17.8km az=70.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 07 30 46.7–.45**	**38.82N–.04**	**142.00E–.04**	**42–3**	**4.8b,3.9s**	**292**	**1-147**
NIED	III	18 07 30 00	38.80N	141.90E	50	4.6W,3.9s		**¶602670862**
MOS	III	18 07 30 46.7–1.2	38.90N	141.96E	53	5.1b,3.9s		
JMA	III	18 07 30 47.9–.10	38.82N	141.94E	49–2	4.5,3.9s		
ISCJB	III	18 07 30 47.6–.47	38.84N–.03	141.87E–.04	61–3	4.7b,3.9s		
IDC	III	18 07 30 48.1–.58	38.80N	141.83E	52–5	4.5,4.3		
NEIC	III	18 07 30 49.8–.52	38.81N	141.83E	66–4	4.7b,4.3		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ22.00000°,λ68.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ99.00000°. $M_0$1.02000×10^{16}

MOS Error ellipse: s-maj=7.1km s-min=4.6km az=105.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=39.9.

IDC Error ellipse: s-maj=12.0km s-min=10.6km az=96.0.

NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=135.0. Recorded [3 JMA] in Iwate.

(229) Off east coast of Honshu

ISC	**III**	**18 07 41 32.7–.88**	**39.22N–.05**	**143.03E–.04**	**32–5**	**4.7b,3.7s**	**236**	**1-145**
JMA	III	18 07 41 28.1–.30	39.21N	143.05E	12–3	4.8,3.7s		**¶16334590**
ISCJB	III	18 07 41 29.1–.87	39.19N–.03	143.02E–.03	17–6	4.6b,3.6s		
MOS	III	18 07 41 31.3–.83	39.29N	142.98E	30	4.9b,3.6s		
IDC	III	18 07 41 31.4–6.1	39.11N	143.05E	28–42	4.2,4.2		
NEIC	III	18 07 41 33.4–.56	39.22N	142.97E	35–5	4.8b,4.2		

ISC Event type se.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.8km az=161.6.
MOS Error ellipse: s-maj=7.8km s-min=5.5km az=99.2.
IDC Error ellipse: s-maj=15.8km s-min=12.6km az=129.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=143.0.

(162) South Island

WEL	**III**	**18 07 59 05.1–.08**	**43.59S**	**172.64E**	**7–0**	**3.8L**		
NEIC	III	18 07 59 05.1	43.59S	172.64E	7	3.8L		¶16335590

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 08 01 34.4–.34**	**35.80N–.03**	**140.96E–.03**	**30–2**	**5.3b,5.0s**	**778**	**0-158**
NIED	III	18 08 01 00	35.90N	141.30E	38	5.3W,5.0s		¶602670500
BJI	III	18 08 01 29.0	35.70N	141.20E	22	5.2b,5.2b		
ISCJB	III	18 08 01 32.8–.82	35.72N–.02	140.91E–.02	28–5	5.2b,5.0s		
GCMT	III	18 08 01 33.8–.20	35.74N	141.17E	36–0	5.3W,5.0s		
NEIC	III	18 08 01 33.8–.28	35.73N	140.88E	24–1	5.2b,5.0s		
JMA	III	18 08 01 34.4–.10	35.82N	141.11E	35–1	5.4,5.0s		
MOS	III	18 08 01 34.7–.86	36.09N	140.85E	30	5.6b,5.1s		
IDC	III	18 08 01 36.3–1.1	35.75N	141.04E	46–9	5.2,5.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ13.00000°,λ113.00000°. NP2:ϕ_s19.00000°,δ78.00000°,λ85.00000°. $M_0$1.15000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=148.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c149; s111,c187; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00±.02 $M_{\theta\theta}$-0.18±.02; $M_{\phi\phi}$-0.82±.02; $M_{r\theta}$0.22±.02; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.83±.02; Best double couple: NP1:ϕ_s16.00000°,δ66.00000°,λ88.00000°. NP2:ϕ_s202.00000°,δ24.00000°,λ95.00000°. Principal axes: T 1.3320,Plg69.0000°,Azm282.0000°; N -0.0910,Plg2.0000°,Azm17.0000°; P -1.2420,Plg21.0000°,Azm108.0000° $M_0$1.28700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=142.0. Recorded [4 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s228.00000°,δ62.00000°,λ135.00000°. NP2:ϕ_s344.00000°,δ51.00000°,λ37.00000°. Principal axes: T Plg51.0000°,Azm190.0000°; N Plg38.0000°,Azm23.0000°; P Plg6.0000°,Azm288.0000°
MOS Error ellipse: s-maj=6.3km s-min=3.7km az=105.7.
IDC Error ellipse: s-maj=11.3km s-min=6.5km az=94.0.

(229) Off east coast of Honshu

ISC	**III**	**18 08 26 47.6–.69**	**37.70N–.09**	**143.3E–.10**	**35**	**4.2b**	**38**	**4-146**
IDC	III	18 08 26 42.5–.83	37.68N	143.43E	0	4.1,3.8L		¶16442638
NEIC	III	18 08 26 45.2–4.0	37.69N	143.32E	18–25	4.6b,3.8L		
ISCJB	III	18 08 26 45.3–.39	37.68N–.06	143.24E–.08	33	4.3b,2.5s		

ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Chiba.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 08 27 11.3–1.0**	**35.83N–.05**	**140.88E–.06**	**12–6**	**3.7b**	**17**	**0-148**
NIED	III	18 08 27 00	35.90N	141.00E	11	4.1W		¶602443704
ISCJB	III	18 08 27 09.8–1.2	35.89N–.04	140.97E–.06	8–7	3.6b		
IDC	III	18 08 27 10.4–4.8	35.78N	141.31E	0	4.1,3.8		
JMA	III	18 08 27 11.2–.10	35.84N	140.89E	11–1	4.4,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ17.00000°,λ-35.00000°. NP2:ϕ_s129.00000°,δ80.00000°,λ-104.00000°. $M_0$1.50000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.3km az=163.0.
IDC Error ellipse: s-maj=156.1km s-min=56.8km az=80.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 08 47 04.3–1.9**	**36.91N–.08**	**141.3E–.10**	**35**	**3.4b**	**12**	**0-57**
IDC	III	18 08 46 54.1–2.6	37.69N	142.35E	0	3.7L,3.6		¶17196975
ISCJB	III	18 08 47 03.3–1.5	36.88N–.08	141.3E–.10	35	3.5b,3.6		
JMA	III	18 08 47 05.0–.10	36.91N	141.15E	32–1	3.6,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=66.4km s-min=30.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=10.3km az=149.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 08 50 26.5–1.1**	**37.20N–.07**	**141.42E–.08**	**33**	**3.5b**	**16**	**1-57**
IDC	III	18 08 50 21.6–1.4	37.24N	141.46E	0	3.7,3.7b		¶17196977
ISCJB	III	18 08 50 24.4–.94	37.22N–.08	141.65E–.08	33	3.6b,3.7b		
JMA	III	18 08 50 27.6–.20	37.28N	141.39E	48–2	3.4,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=31.3km s-min=27.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=8.0km az=149.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 09 10 40.2–1.4**	**36.23N–.05**	**141.01E–.07**	**26–11**		**15**	**1-56**
IDC	III	18 09 10 36.4–1.5	36.16N	141.19E	0	3.7,3.4b		¶602670331
ISCJB	III	18 09 10 39.6–.99	36.21N–.05	141.05E–.08	33–6	3.5b,3.4b		
JMA	III	18 09 10 40.2	36.22N	141.00E	37–1	3.2,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=39.3km s-min=30.8km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.4km az=159.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 09 35 00.1–.91**	**35.86N–.05**	**140.85E–.08**	**42–8**	**3.5b**	**18**	**0-65**
ISCJB	III	18 09 34 58.9–.63	35.84N–.05	140.85E–.09	52–5	3.5b		¶17196984
JMA	III	18 09 35 00.1–.10	35.89N	140.81E	39–1	3.4		
IDC	III	18 09 35 02.2–2.4	35.76N	140.66E	66–23	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=7.4km az=162.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.2km s-min=9.0km az=71.0.

(713) Central Kazakhstan

ISC	**III**	**18 09 36 27.3–.77**	**43.05N–.02**	**74.87E–.01**	**14–5**	**4.2b,3.6s**	**236**	**0-123**
IDC	III	18 09 36 24.9–.65	43.01N	74.99E	0	4.2,4.1		¶16339126
ISCJB	III	18 09 36 25.3–.42	43.16N–.02	74.83E–.02	5–3	4.0b,3.6s		
BJI	III	18 09 36 25.8	42.96N	74.74E	18	4.6b,4.5L		
NNC	III	18 09 36 25.8–.34	43.06N	74.89E	0	4.8b,4.5		
KNET	III	18 09 36 26.1–.30	42.99N	74.93E	18–2	4.5L,4.5		
KRNET	III	18 09 36 27.1–.10	43.00N	74.92E	20	5.2b,4.5		
SOME	III	18 09 36 27.2	43.15N	74.83E	10	3.4s,4.5		
MOS	III	18 09 36 27.5–1.7	43.12N	74.83E	28	4.4b,4.5		
NEIC	III	18 09 36 28.9–.68	43.11N	74.77E	21–5	4.3b,4.1W		

ISC Event type fe.
IDC Error ellipse: s-maj=14.8km s-min=6.4km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=162.2.
NNC Event type se. Error ellipse: s-maj=3.2km s-min=1.2km az=160.0.
KNET Error ellipse: s-maj=2.5km s-min=1.7km az=11.0.
MOS Event type fe. Error ellipse: s-maj=7.7km s-min=5.8km az=71.6. Felt (IV) at Bishkek; (II-III) at Almaty. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=6.5km az=146.0. Felt [III] at Bishkek, Kyrgyzstan. Also felt at Tokmak. Felt [II] at Almaty, Kazakhstan. Moment Tensor Solution. s6 Moment tensor: Scale 10^{15}Nm; M_{rr}0.55 $M_{\theta\theta}$-1.50 $M_{\phi\phi}$0.94 $M_{r\theta}$-0.04 $M_{\theta\phi}$-0.74 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s294.00000°,δ62.00000°,λ157.00000°. NP2:ϕ_s35.00000°,δ70.00000°,λ30.00000°. Principal axes: T 1.7200,Plg35.0000°,Azm257.0000°; N 0.0000,Plg54.0000°,Azm66.0000°; P -1.7200,Plg5.0000°,Azm163.0000° $M_0$1.70000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**III**	**18 09 40 36.0–.10**	**36.22N**	**141.07E**	**36–1**	**3.5**		
								¶602670289

JMA Event type fe.

(327) Lake Baykal region

ISC	**III**	**18 10 26 04.7–.97**	**52.79N–.02**	**106.75E–.02**	**14–7**	**3.9b**	**112**	**0-76**
IDC	III	18 10 26 01.9–1.4	52.73N	107.11E	0	3.9b,3.8		¶16390739
MOS	III	18 10 26 02.5–1.3	52.83N	106.82E	10	4.1b,3.8		
OBM	III	18 10 26 04.0–.08	52.81N	106.97E	2	3.5L,3.8		
BYKL	III	18 10 26 05.0–.19	52.81N	106.71E	17–3	3.5L,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=18.7km az=77.0.
MOS Event type fe. Error ellipse: s-maj=11.5km s-min=6.9km az=69.4. Felt (III) at Tyrgan, Elantsy, Popovo. Moment Tensor Solution.
OBM Error ellipse: s-maj=1.5km s-min=1.2km az=20.0.
BYKL Event type se. FELT I=VI MSK at Tirgan,Yelantsy,Petrovo,Popovo,Anga,Narin-Kunta).

(228) Near east coast of eastern Honshu

ISC	**III**	**18 10 33 55.0–1.3**	**39.55N–.06**	**142.39E–.09**	**29**	**3.6b**	**20**	**1-63**
IDC	III	18 10 33 44.5–1.1	40.21N	144.00E	0	3.7,3.6		¶17196997
ISCJB	III	18 10 33 53.3–.96	39.57N–.06	142.46E–.08	29	3.6b,3.6		
JMA	III	18 10 33 59.0–.10	39.64N	142.16E	45–1	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=22.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=7.6km az=144.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 10 42 11.9–1.1**	**35.97N–.06**	**141.12E–.09**	**31**	**3.6b**	**14**	**0-65**
IDC	III	18 10 42 07.5–1.1	35.89N	141.30E	0	3.5,3.4		¶17197000
JMA	III	18 10 42 10.5–.20	35.96N	141.22E	26–2	3.8,3.4		
ISCJB	III	18 10 42 10.2–.87	35.95N–.05	141.23E–.09	31	3.5b,3.4		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 10 43 01.6–1.1**	**35.7N–.10**	**140.8E–.20**	**25–7**	**3.6b**	**10**	**0-59**
IDC	III	18 10 42 58.0–1.2	35.59N	140.78E	0	3.8,3.6		¶600555559
NIED	III	18 10 43 00	35.60N	140.90E	32	3.8W,3.6		
JMA	III	18 10 43 01.5–.20	35.64N	140.91E	26–1	3.6,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=23.9km az=81.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ51.00000°,λ39.00000°. NP2:ϕ_s286.00000°,δ61.00000°,λ134.00000°. $M_0$6.25000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(162) South Island

WEL	**III**	**18 11 25 13.5–.35**	**44.37S**	**168.05E**	**5**	**3.7L**	
							¶16338678

WEL Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=90.0. Felt in the Otago region, maximum reported intensity MM 4.

(135) Near coast of central Chile

ISC	**III**	**18 11 32 34.2–.66**	**32.57S–.04**	**71.77W–.06**	**25**	**4.4b,3.5s**	**36**	**1-156**
ISCJB	III	18 11 32 33.1–.56	32.61S–.04	71.88W–.06	25	4.3b,3.7s		¶16479171
SJA	III	18 11 32 36.9–.48	32.92S	71.56W	56–5	3.1L,3.0W		
IDC	III	18 11 32 37.4–3.1	32.57S	71.55W	44–27	4.5L,4.3		
NEIC	III	18 11 32 37.4–1.0	32.51S	71.60W	44–8	4.4b,4.3		
GUC	III	18 11 32 37.8–.69	32.90S	71.68W	32–20	4.0L,4.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=164.7.
SJA Error ellipse: s-maj=6.5km s-min=11.7km az=-1.0.
IDC Error ellipse: s-maj=28.3km s-min=23.7km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=14.2km s-min=7.2km az=91.0. Felt [IV] at Cabildo, La Ligua, Papudo, Petorca and Zapallar; [III] at Puchuncavi and Valparaiso; [II] at Algarrobo, Mostazal, Navidad and Rancagua.
GUC Error ellipse: s-maj=5.5km s-min=5.1km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 04 46.1–1.8**	**39.05N–.06**	**142.38E–.09**	**19–5**	**3.5b**	**14**	**1-59**
IDC	III	18 12 04 43.1–1.4	38.93N	142.39E	0	3.7,3.4		¶17197009
ISCJB	III	18 12 04 45.8–2.4	39.04N–.06	142.5E–.10	26–14	3.4b,3.4		
JMA	III	18 12 04 47.8	39.06N	142.35E	31–1	3.6,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=33.2km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=9.8km az=8.2.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 17 01.5–.78**	**38.97N–.03**	**142.41E–.04**	**32–5**	**4.8b,4.2s**	**386**	**1-155**
BJI	III	18 12 16 57.1	38.80N	142.65E	33	5.0b,5.0b		¶16336104
MOS	III	18 12 17 00.9–1.1	39.04N	142.35E	38	5.0b,4.0s		
JMA	III	18 12 17 01.2–.10	39.00N	142.35E	32–1	4.7,4.0s		
ISCJB	III	18 12 17 01.2–.31	38.98N–.02	142.37E–.03	42–2	4.8b,4.2s		
IDC	III	18 12 17 03.4–1.6	39.00N	142.34E	48–15	4.6,4.4		
NEIC	III	18 12 17 04.2–.50	38.96N	142.27E	54–4	4.9b,4.4		

ISC Event type se.
MOS Error ellipse: s-maj=6.7km s-min=4.9km az=93.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=31.3.
IDC Error ellipse: s-maj=12.2km s-min=10.4km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=131.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 21 01.7–1.2**	**38.11N–.04**	**142.14E–.04**	**2–6**	**4.7b,3.8s**	**234**	**1-146**
NIED	III	18 12 21 00	38.10N	142.10E	5	4.6W,3.8s		¶602670765
JMA	III	18 12 21 02.1–.20	38.10N	142.12E	20–4	4.7,3.8s		
MOS	III	18 12 21 04.9–1.3	38.11N	142.19E	33	4.8b,3.8s		
ISCJB	III	18 12 21 05.0–.22	38.10N–.03	142.07E–.03	33	4.6b,3.8s		
IDC	III	18 12 21 06.8–2.8	38.09N	141.98E	39–24	4.4,4.3		
NEIC	III	18 12 21 07.9–.71	38.05N	142.18E	45–6	4.8b,4.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ43.00000°,λ-123.00000°. NP2:ϕ_s169.00000°,δ55.00000°,λ-63.00000°. $M_0$7.65000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.3km az=99.9.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.2km az=142.8.
IDC Error ellipse: s-maj=14.6km s-min=12.2km az=104.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 33 53.9–1.5**	**36.47N–.05**	**141.16E–.07**	**28–10**	**3.8b**	**26**	**0-64**
NIED	III	18 12 33 00	36.40N	141.10E	41	3.8W		¶17197015
JMA	III	18 12 33 53.9–.10	36.44N	141.11E	43–2	3.8		
ISCJB	III	18 12 33 53.2–1.0	36.44N–.04	141.20E–.08	40–11	3.8b		
IDC	III	18 12 33 56.2–3.2	36.41N	141.15E	51–31	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ10.00000°,λ-26.00000°. NP2:ϕ_s314.00000°,δ85.00000°,λ-99.00000°. $M_0$5.36000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.9km az=7.6.
IDC Error ellipse: s-maj=25.2km s-min=11.9km az=67.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 36 28.4–.89**	**36.72N–.03**	**140.53E–.05**	**12–6**	**3.9b**	**39**	**0-91**
NIED	III	18 12 36 00	36.80N	140.60E	5	3.8W		¶602670746
IDC	III	18 12 36 26.7–.72	36.71N	140.57E	0	4.0,3.9		
ISCJB	III	18 12 36 27.2–.70	36.71N–.03	140.72E–.05	14–4	3.9b,3.9		
JMA	III	18 12 36 28.3	36.75N	140.59E	5–1	3.7,3.9		
NEIC	III	18 12 36 33.4–1.2	36.74N	140.48E	49–12	4.2b,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ35.00000°,λ-80.00000°. NP2:ϕ_s182.00000°,δ55.00000°,λ-97.00000°. $M_0$6.57000×10^{14}
IDC Error ellipse: s-maj=17.0km s-min=12.4km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.0km az=26.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.6km az=67.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 53 15.8–1.2**	**38.80N–.07**	**142.5E–.10**	**37–4**	**3.8b**	**25**	**1-88**
JMA	III	18 12 53 14.8–.20	38.83N	142.40E	30–2	3.9		¶17197018
ISCJB	III	18 12 53 14.5–1.3	38.77N–.05	142.5E–.10	44–12	3.7b		
IDC	III	18 12 53 16.8–3.5	38.74N	142.39E	49–34	3.7,3.7		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=8.7km az=6.8.
IDC Error ellipse: s-maj=26.1km s-min=17.4km az=102.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**18 12 59 26.3–1.8**	**38.32N–.04**	**142.20E–.06**	**12–10**	**4.2b,3.9s**	**68**	**1-89**
NIED	III	18 12 59 00	38.40N	142.20E	38	4.2W,3.9s		¶16461917
JMA	III	18 12 59 28.6–.20	38.38N	142.21E	36–3	4.3,3.9s		
IDC	III	18 12 59 29.9–3.6	38.33N	142.18E	36–29	4.2,4.2L		

NEIC III 18 12 59 30.8–.80 38.35N 142.27E 46–7 4.5b,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ55.00000°,λ-169.00000°. NP2:ϕ_s248.00000°,δ81.00000°,λ-35.00000°. $M_0$2.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=13.0km az=88.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=113.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 13 21 10.2–.95**	**38.80N–.07**	**142.63E–.08**	**27**	**3.7b**	**23**	**1-76**
NIED	III	18 13 21 00	38.80N	142.40E	35	3.7W		**¶17197020**
IDC	III	18 13 21 05.9–.94	38.65N	142.86E	0	3.9,3.7		
ISCJB	III	18 13 21 09.1–.76	38.84N–.07	142.56E–.07	27	3.7b,3.7		
JMA	III	18 13 21 10.1–.10	38.84N	142.44E	28–2	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ19.00000°,λ113.00000°. NP2:ϕ_s222.00000°,δ73.00000°,λ82.00000°. $M_0$4.10000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=20.3km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=7.7km az=163.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 13 29 01.3–.94**	**39.19N–.06**	**142.37E–.08**	**27**	**3.5b**	**16**	**1-76**
ISCJB	III	18 13 28 59.5–.73	39.13N–.05	142.47E–.06	27	3.5b		**¶17197021**
JMA	III	18 13 29 01.0–.10	39.17N	142.41E	28–1	3.8		
IDC	III	18 13 29 04.8–4.2	39.14N	142.45E	60–41	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=7.2km az=176.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=36.8km s-min=18.9km az=107.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 13 33 10.3–1.6**	**37.29N–.05**	**141.3E–.10**	**46–12**	**3.9b**	**28**	**0-74**
NIED	III	18 13 33 00	37.30N	141.30E	56	3.6W		**¶16479190**
IDC	III	18 13 33 05.3–1.9	37.52N	141.30E	0	3.8,3.8		
ISCJB	III	18 13 33 09.6–1.1	37.26N–.04	141.3E–.10	57–6	3.8b,3.8		
JMA	III	18 13 33 11.0–.10	37.31N	141.26E	50–1	3.5,3.8		
NEIC	III	18 13 33 11.4–1.1	37.62N	141.20E	35	4.0b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ20.00000°,λ129.00000°. NP2:ϕ_s17.00000°,δ75.00000°,λ77.00000°. $M_0$3.04000×10^{14}
IDC Error ellipse: s-maj=38.0km s-min=27.9km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=18.0km s-min=7.0km az=175.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=10.0km az=143.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**18 13 41 43.3–.10**	**38.55N**	**141.88E**	**44–2**	**3.5**		
								¶602670582

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**18 13 47 15.6–2.0**	**37.62N–.05**	**142.06E–.08**	**28–14**	**3.9b**	**40**	**1-146**
ISCJB	III	18 13 47 15.9–.99	37.60N–.04	142.13E–.08	47–9	3.9b		**¶602670565**
JMA	III	18 13 47 16.0–.20	37.66N	142.07E	26	4.2		
IDC	III	18 13 47 17.8–2.2	37.61N	142.03E	47–23	4.0,3.9		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.5km az=9.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=13.6km az=92.0.
(227) Eastern Honshu

JMA	**III**	**18 13 47 34.8**	**36.24N**	**137.58E**	**3–1**	**3.1**		
								¶16461936

JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 14 10 29.2–1.7**	**36.56N–.05**	**140.97E–.05**	**8–10**	**3.9b**	**39**	**0-147**
NIED	III	18 14 10 00	36.60N	141.10E	5	4.1W		**¶17197024**
ISCJB	III	18 14 10 29.0–1.2	36.58N–.04	141.15E–.07	21–7	3.8b,3.6s		
JMA	III	18 14 10 29.1–.10	36.62N	141.14E	33–1	4.2,3.6s		
IDC	III	18 14 10 35.0–2.5	36.46N	140.87E	55–22	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ51.00000°,λ-139.00000°. NP2:ϕ_s222.00000°,δ59.00000°,λ-47.00000°. $M_0$1.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.7km az=10.4.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=13.4km az=83.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 14 12 31.0–.79**	**39.03N–.08**	**142.25E–.09**	**51**	**3.9b**	**23**	**1-88**
NIED	III	18 14 12 00	39.00N	142.40E	35	3.9W		**¶17197025**
JMA	III	18 14 12 28.4–.10	39.01N	142.37E	31–1	3.9		
ISCJB	III	18 14 12 29.5–.61	39.01N–.06	142.32E–.07	51	3.8b		
IDC	III	18 14 12 32.9–3.1	38.96N	142.31E	71–29	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ33.00000°,λ-55.00000°. NP2:ϕ_s198.00000°,δ64.00000°,λ-110.00000°. $M_0$8.81000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.6km az=152.7.
IDC Error ellipse: s-maj=23.4km s-min=15.8km az=103.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 14 34 47.5–1.5**	**37.09N–.05**	**141.48E–.10**	**49–13**	**3.8b**	**41**	**1-147**
NIED	III	18 14 34 00	37.10N	141.30E	47	4.0W		**¶17197030**
ISCJB	III	18 14 34 46.2–.88	37.05N–.04	141.51E–.08	54–7	3.8b		
JMA	III	18 14 34 48.2–.10	37.11N	141.33E	57–1	4.0		
IDC	III	18 14 34 49.4–1.9	36.99N	141.44E	70–18	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ31.00000°,λ122.00000°. NP2:ϕ_s164.00000°,δ64.00000°,λ72.00000°. $M_0$1.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.5km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=11.9km az=77.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 16 04 14.0–1.5**	**36.58N–.04**	**141.19E–.05**	**14–9**	**4.2b,3.5s**	**64**	**1-83**
NIED	III	18 16 04 00	36.60N	141.20E	41	4.3W,3.5s		**¶16461920**
JMA	III	18 16 04 17.4–.10	36.58N	141.18E	44–1	4.2,3.5s		
IDC	III	18 16 04 18.4–1.7	36.56N	141.23E	48–16	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ12.00000°,λ86.00000°. NP2:ϕ_s40.00000°,δ78.00000°,λ91.00000°. $M_0$2.86000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=9.6km az=72.0.
(229) Off east coast of Honshu

ISC	**III**	**18 16 23 29.6–.45**	**39.17N–.04**	**143.39E–.05**	**20**	**4.5b,3.5s**	**193**	**2-145**
NIED	III	18 16 23 00	39.20N	143.10E	8	4.4W,3.5s		**¶16339128**
IDC	III	18 16 23 26.9–.52	39.16N	143.11E	0	4.3,4.2		
ISCJB	III	18 16 23 28.0–.25	39.21N–.03	143.20E–.03	20	4.4b,3.5s		
JMA	III	18 16 23 28.7–.20	39.25N	143.06E	13–2	4.4,3.5s		
MOS	III	18 16 23 30.3–1.4	39.31N	143.14E	34	4.7b,3.5s		
NEIC	III	18 16 23 30.4–2.5	39.23N	143.17E	24–18	4.8b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ42.00000°,λ163.00000°. NP2:ϕ_s281.00000°,δ79.00000°,λ49.00000°. $M_0$3.85000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=11.2km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=141.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=93.6.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=126.0.
(277) Jawa

ISC	**III**	**18 16 25 04.0–1.1**	**7.33S–.04**	**107.55E–.03**	**10–8**	**3.6b,3.2s**	**53**	**0-97**
IDC	III	18 16 25 01.7–1.1	7.38S	107.19E	0	3.9,3.7b		**¶16479226**
NEIC	III	18 16 25 02.3–1.6	7.55S	107.33E	15	3.8b,3.7b		
ISCJB	III	18 16 25 05.0–.43	7.33S–.04	107.58E–.03	24–4	3.5b,3.4s		
DJA	III	18 16 25 05.3–.20	7S–2.0	108E–1.0	17	4.3b,4.1		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Pengalengan.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 16 31 08.1–1.3**	**37.28N–.04**	**141.39E–.08**	**48–11**	**3.7b**	**36**	**1-78**
IDC	III	18 16 31 00.5–.79	37.01N	141.25E	0	4.0,3.8		**¶602669268**
NIED	III	18 16 31 00	37.30N	141.30E	47	3.8W,3.8		
NEIC	III	18 16 31 05.5–.74	37.10N	141.44E	35	4.3b,3.8		
ISCJB	III	18 16 31 07.2–.78	37.26N–.04	141.40E–.08	59–5	3.7b,3.8		
JMA	III	18 16 31 08.6–.10	37.30N	141.34E	50–1	3.7,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=20.1km az=67.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ17.00000°,λ90.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ90.00000°. $M_0$5.35000×10^{14}
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=11.3km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.9km az=7.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 16 40 55.1–1.9**	**36.61N–.05**	**141.87E–.06**	**7–11**	**4.3b**	**75**	**1-147**
IDC	III	18 16 40 54.1–.60	36.62N	141.75E	0	4.3,4.2L		**¶16461922**
ISCJB	III	18 16 40 55.4–1.1	36.58N–.04	141.92E–.05	23–7	4.2b,4.2L		
MOS	III	18 16 40 56.9–.82	36.61N	141.86E	33	4.7b,4.2L		
JMA	III	18 16 40 57.9–.20	36.63N	141.81E	46–5	4.3,4.2L		
NEIC	III	18 16 40 59.7–1.3	36.68N	141.66E	37–11	4.6b,4.2L		

ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.9km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.6km az=27.2.
MOS Error ellipse: s-maj=12.9km s-min=9.1km az=111.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.1km az=139.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**18 16 45 45.0–.10**	**35.82N**	**140.86E**	**10–1**	**3.8**		
NIED	III	18 16 45 00	35.80N	140.90E	5	4.3W		**¶17197056**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ7.00000°,λ-99.00000°. NP2:ϕ_s129.00000°,δ83.00000°,λ-89.00000°. $M_0$2.80000×10^{15}
(230) Near south coast of eastern Honshu

ISC	**III**	**18 16 49 10.5–1.1**	**34.83N–.03**	**139.31E–.05**	**11–7**	**3.9b,3.4s**	**46**	**0-93**
NIED	III	18 16 49 00	34.90N	139.20E	5	4.2W,3.4s		**¶602443710**
IDC	III	18 16 49 08.7–.61	34.83N	139.36E	0	4.1,4.0		
ISCJB	III	18 16 49 10.2–.81	34.81N–.03	139.31E–.06	20–6	3.8b,3.4s		
JMA	III	18 16 49 11.5	34.87N	139.24E	11–1	4.4,3.4s		
NEIC	III	18 16 49 13.7–.40	34.80N	139.34E	35	4.0b,3.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ71.00000°,λ-19.00000°. NP2:ϕ_s98.00000°,δ72.00000°,λ-160.00000°. $M_0$1.89000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=12.8km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=163.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s97.00000°,δ87.00000°,λ-174.00000°. NP2:ϕ_s7.00000°,δ84.00000°,λ-3.00000°. Principal axes: T Plg2.0000°,Azm232.0000°; N Plg84.0000°,Azm124.0000°; P Plg6.0000° ,Azm322.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.4km az=94.0. Recorded [3 JMA] in Shizuoka.
(460) Wyoming

ISC	**III**	**18 18 08 04.9–.81**	**43.54N–.04**	**105.20W–.03**	**0**		**51**	**1-9**
IDC	III	18 18 08 01.3–3.0	43.07N	105.11W	0	3.7,3.5		**¶17197066**
NEIC	III	18 18 08 05.9–.88	43.64N	105.19W	0	3.1L,3.5		
ISCJB	III	18 18 08 05.5–.33	43.67N–.04	105.29W–.03	0	3.1L,3.5		

ISC Event type sm.
NEIC Event type fm. 77 km [48 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 18 32 46.7–.43**	**39.14N–.03**	**142.41E–.03**	**29–2**	**5.0b,4.6s**	**469**	**1-155**
NIED	III	18 18 32 00	39.20N	142.40E	26	4.9W,4.6s		**¶16336120**
IDC	III	18 18 32 42.1–.47	39.13N	142.45E	0	4.6,4.6		
JMA	III	18 18 32 45.4–.10	39.18N	142.44E	23–1	5.0,4.6		
ISCJB	III	18 18 32 45.3–.67	39.12N–.02	142.40E–.02	28–4	4.9b,4.6s		
MOS	III	18 18 32 46.6–.91	39.22N	142.37E	37	5.2b,4.8s		
BJI	III	18 18 32 47.1	39.13N	142.27E	45	5.0b,4.8b		
GCMT	III	18 18 32 49.3–.30	39.27N	142.34E	25–1	5.1W,4.8b		
NEIC	III	18 18 32 49.3–.49	39.11N	142.32E	50–4	5.0b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ25.00000°,λ-142.00000°. NP2:ϕ_s183.00000°,δ75.00000°,λ-69.00000°. $M_0$2.92000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=152.7.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=93.8.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s82,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.56±.11 $M_{\theta\theta}$-0.90±.08; $M_{\phi\phi}$1.45±.08; $M_{r\theta}$1.47±.23; $M_{\theta\phi}$-1.04±.06; $M_{\phi r}$4.25±.39; Best double couple: NP1:ϕ_s198.00000°,δ86.00000° ,λ-71.00000°. NP2:ϕ_s299.00000°,δ19.00000°,λ-169.00000°. Principal axes: T 4.8150,Plg39.0000°,Azm271.0000°; N -0.0610,Plg19.0000°,Azm17.0000° ; P -4.7580,Plg46.0000°,Azm127.0000° $M_0$4.78700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.
(127) Chile-Argentina border region

ISC	**III**	**18 18 38 07.1–.93**	**32.12S–.04**	**71.23W–.09**	**83–8**	**4.0b**	**41**	**1-152**
IDC	III	18 18 38 07.0–3.5	32.10S	70.85W	72–33	4.0L,3.8		**¶16479248**
ISCJB	III	18 18 38 06.7–.57	32.15S–.03	71.20W–.08	94–5	4.4b,3.8		
NEIC	III	18 18 38 07.3–.64	32.12S	70.83W	76–7	4.9b,3.8		
GUC	III	18 18 38 08.2–.46	32.20S	71.21W	66–6	4.0L,3.8		
SJA	III	18 18 38 11.6–.63	32.03S	70.72W	87–14	3.6L,3.2W		

ISC Event type fe.
IDC Error ellipse: s-maj=35.6km s-min=30.5km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.4km az=7.1.
NEIC Event type fe. Error ellipse: s-maj=12.7km s-min=7.3km az=92.0. Felt [IV] at La Ligua and Zapallar; [II] at Calera, Hijuela, La Cruz, Nogales, Papudo, Quillota, San Felipe and Villa Alemana.
GUC Error ellipse: s-maj=4.8km s-min=11.0km az=-1.0.
SJA Error ellipse: s-maj=4.5km s-min=19.2km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 19 04 28.6–2.3**	**37.15N–.04**	**141.67E–.10**	**26–14**	**4.0b**	**47**	**1-74**
NIED	III	18 19 04 00	37.20N	141.60E	35	3.9W		**¶16461939**
IDC	III	18 19 04 24.5–.95	37.15N	141.73E	0	3.9,3.8		
ISCJB	III	18 19 04 28.7–.99	37.11N–.03	141.68E–.09	45–7	3.9b,3.5s		
NEIC	III	18 19 04 30.6–1.2	37.09N	141.72E	46–9	4.2b,3.5s		
JMA	III	18 19 04 30.3–.20	37.18N	141.57E	46–2	4.1,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ12.00000°,λ-175.00000°. NP2:ϕ_s34.00000°,δ89.00000°,λ-78.00000°. $M_0$7.87000×10^{14}
IDC Error ellipse: s-maj=26.6km s-min=15.9km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.5km az=178.4.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.1km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(229) Off east coast of Honshu

ISC	**III**	**18 19 16 45.7–.41**	**39.71N–.04**	**143.39E–.04**	**29–2**	**5.3s,4.8b**	**477**	**2-145**
JMA	III	18 19 16 40.6–.60	39.72N	143.56E	1–4	4.8,4.8b		**¶602669814**
IDC	III	18 19 16 41.4–.49	39.67N	143.44E	0	4.7,4.6		
ISCJB	III	18 19 16 41.2–1.1	39.73N–.03	143.39E–.03	7–6	5.0s,4.8b		
NEIC	III	18 19 16 44.9–1.3	39.72N	143.33E	21–9	4.9b,4.8b		
MOS	III	18 19 16 45.5–1.1	39.90N	143.29E	29	5.3s,5.2b		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=10.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=143.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=148.0.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=104.3.
(228) Near east coast of eastern Honshu

ISC	**III**	**18 19 53 05.5–.46**	**37.62N–.03**	**141.58E–.03**	**55–3**	**5.2b,4.9s**	**776**	**1-152**
NIED	III	18 19 53 00	37.60N	141.60E	47	5.3W,4.9s		**¶16337759**
BJI	III	18 19 53 02.4	37.55N	141.72E	61	5.3b,5.2b		
MOS	III	18 19 53 04.2–.88	37.86N	141.46E	43	5.5b,4.9s		

ISCJB III 18 19 53 04.9–.33 37.59N–.02 141.46E–.02 58–2 5.2b,4.8s
JMA III 18 19 53 04.5–.10 37.60N 141.59E 43–2 5.2,4.8s
IDC III 18 19 53 06.7–1.7 37.61N 141.48E 62–15 4.9,4.8
NEIC III 18 19 53 07.0–.46 37.58N 141.41E 65–4 5.2b,4.8
GCMT III 18 19 53 07.0–.10 37.65N 141.69E 49–0 5.3W,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S204.00000°,δ18.00000°,λ93.00000°. NP2:ϕ_S20.00000°,δ72.00000°,λ89.00000°. $M_0$8.84000×10^{16}
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=101.9.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=139.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.0km s-min=9.9km az=125.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=137.0. Recorded [3 JMA] in Fukushima and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c148; s106,c199; Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.83±.02 $M_{\theta\theta}$-0.16±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.23±.01; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.60±.01; Best double couple: NP1:ϕ_S21.00000°,δ64.00000° ,λ89.00000°. NP2:ϕ_S204.00000°,δ26.00000°,λ92.00000°. Principal axes: T 1.0520,Plg71.0000°,Azm289.0000°; N -0.0510,Plg1.0000°,Azm22.0000° ; P -1.0010,Plg19.0000°,Azm112.0000° $M_0$1.02700×10^{17}

(42) Western Arizona

ISC III 18 19 54 45.7–.65 34.82N–.02 112.08W–.02 10 123 1-28
IDC III 18 19 54 44.1–.78 34.88N 112.12W 0 3.7L,3.6 **¶16339131**
ISCJB III 18 19 54 44.9–.21 34.85N–.02 112.08W–.02 10 3.1b,3.6
NEIC III 18 19 54 45.6–.22 34.84N 112.09W 5 3.8L,3.6
ISC Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=8.6km az=36.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.4km az=160.4.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=146.0. Felt [III] at Clarkdale and Cornville and [II] at Chino Valley, Cottonwood and Sedona. Also felt at Camp Verde, Flagstaff, Gilbert, Kingman, Litchfield Park, Mayer, Phoenix, Prescott and Prescott Valley.

(229) Off east coast of Honshu

ISC III 18 20 15 23.7–.52 39.70N–.04 143.15E–.04 26–2 4.9b,4.6s 465 1-145
NIED III 18 20 15 00 39.70N 143.30E 17 4.7W,4.6s **¶16337761**
IDC III 18 20 15 19.8–.58 39.63N 143.22E 0 4.7,4.6
JMA III 18 20 15 21.4–.40 39.68N 143.30E 17 4.8,4.6
ISCJB III 18 20 15 21.6–.85 39.66N–.03 143.21E–.03 21–5 4.8b,4.5s
MOS III 18 20 15 22.4–1.0 39.75N 143.17E 24 5.2b,4.8s
BJI III 18 20 15 23.0 39.64N 143.07E 32 5.2b,5.0b
NEIC III 18 20 15 25.1–.60 39.62N 143.12E 36–5 4.9b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S204.00000°,δ20.00000°,λ91.00000°. NP2:ϕ_S23.00000°,δ70.00000°,λ90.00000°. $M_0$1.35000×10^{16}
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=134.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=150.5.
MOS Error ellipse: s-maj=6.8km s-min=4.2km az=107.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=143.0.

(228) Near east coast of eastern Honshu

ISC III 18 20 32 34.7–.46 37.30N–.03 141.55E–.03 30–2 4.8b,4.1s 517 1-149
NIED III 18 20 32 00 37.30N 141.60E 44 4.8W,4.1s **¶600556358**
ISCJB III 18 20 32 35.5–.42 37.31N–.02 141.53E–.03 47–3 4.8b,4.0s
MOS III 18 20 32 35.1–.89 37.45N 141.49E 38 5.2b,4.0s
JMA III 18 20 32 36.3–.10 37.32N 141.56E 45–2 4.7,4.0s
NEIC III 18 20 32 37.5–.52 37.31N 141.48E 53–4 4.8b,4.0s
IDC III 18 20 32 37.0–1.8 37.35N 141.55E 44–16 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S239.00000°,δ21.00000°,λ113.00000°. NP2:ϕ_S35.00000°,δ71.00000°,λ82.00000°. $M_0$1.61000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=141.6.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=140.0.
IDC Error ellipse: s-maj=12.4km s-min=10.4km az=99.0.

(228) Near east coast of eastern Honshu

ISC III 18 20 36 20.2–2.2 37.04N–.05 141.80E–.06 14–13 4.0b 32 1-90
IDC III 18 20 36 18.3–1.4 37.13N 141.92E 0 4.0,3.9 **¶16479259**
ISCJB III 18 20 36 21.0–.91 36.99N–.04 141.89E–.07 34–9 3.9b,3.9
JMA III 18 20 36 22.7–.20 37.01N 141.72E 44–3 3.9,3.9
NEIC III 18 20 36 23.4–1.0 37.08N 141.87E 35–10 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=35.2km s-min=20.0km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.9km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.8km az=131.0.

(228) Near east coast of eastern Honshu

ISC III 18 20 44 12.7–2.3 37.27N–.06 141.68E–.09 27–15 3.7b 24 1-69
NIED III 18 20 44 00 37.30N 141.60E 41 3.9W **¶17197079**
IDC III 18 20 44 08.3–1.2 37.32N 141.85E 0 3.8,3.7
JMA III 18 20 44 14.2–.20 37.29N 141.59E 45–2 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S224.00000°,δ26.00000°,λ100.00000°. NP2:ϕ_S33.00000°,δ65.00000°,λ85.00000°. $M_0$6.73000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=21.8km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 18 20 58 24.6–1.4 39.22N–.07 142.2E–.10 51 3.5b 15 1-63
IDC III 18 20 58 21.8–1.1 39.87N 142.09E 0 3.7,3.5 **¶17197083**
JMA III 18 20 58 21.5–.10 39.16N 142.37E 34–1 4.0,3.5
ISCJB III 18 20 58 22.6–1.1 39.16N–.06 142.27E–.10 51 3.4b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 18 21 18 53.6–.35 36.14N–.03 141.24E–.04 37–1 5.0b,4.2s 661 1-155
MOS III 18 21 18 52.8–1.0 36.17N 141.12E 42 5.0b,4.1s **¶602672179**
BJI III 18 21 18 52.2 36.02N 141.04E 40 5.0b,4.9b
ISCJB III 18 21 18 52.9–.41 36.14N–.02 141.13E–.02 44–3 5.0b,4.1s
JMA III 18 21 18 53.2–.20 36.20N 141.15E 45–2 4.8,4.1s
NEIC III 18 21 18 53.2–1.5 36.11N 141.18E 32–10 4.9b,4.1s
IDC III 18 21 18 53.9–1.7 36.15N 141.24E 38–14 4.7,4.5
ISC Event type ke.
MOS Error ellipse: s-maj=7.0km s-min=5.0km az=110.2.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=42.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=132.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=100.0.

(353) Southern Iran

ISC III 18 21 49 54.7–.29 28.17N–.03 56.38E–.03 28 4.7b,3.6s 474 1-120
BJI III 18 21 49 48.6 28.17N 56.09E 14 4.8b,4.7b **¶16337766**
IDC III 18 21 49 50.8–.47 28.25N 56.42E 0 4.4,4.4
ISCJB III 18 21 49 53.4–.16 28.23N–.02 56.39E–.02 28 4.6b,3.8s
CSEM III 18 21 49 53.4–.10 28.26N 56.42E 15 4.7b,3.8s
THR III 18 21 49 54.2–1.8 28.24N 56.49E 28–15 4.4L,3.8s
MOS III 18 21 49 54.3–1.0 28.29N 56.41E 33 4.8b,3.8s
NEIC III 18 21 49 56.0 28.15N 56.38E 16 4.7b,4.4L
TEH III 18 21 49 56.0 28.15N 56.38E 16 4.4L,4.4L
OMAN III 18 21 49 56.0 28.15N 56.38E 17 4.4L,4.4L
DSN III 18 21 49 57.6–.03 28.09N 56.69E 22 4.6L,4.4L
ISC Event type fe.
IDC Error ellipse: s-maj=12.4km s-min=8.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.9km az=43.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=81.0.
THR Error ellipse: s-maj=6.5km s-min=13.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=99.6.
NEIC Event type fe. Felt at Abu Dhabi, United Arab Emirates. After TEH.
OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.
DSN Error ellipse: s-maj=2.4km s-min=0.9km az=276.0.

(228) Near east coast of eastern Honshu

JMA III 18 21 58 01.0–.10 36.48N 140.94E 33–1 3.7
¶602672072
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 18 22 10 49.5–.10 36.91N 141.13E 51–1 3.8
NIED III 18 22 10 00 36.90N 141.10E 47 4.0W **¶16479046**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S275.00000°,δ29.00000°,λ-124.00000°. NP2:ϕ_S133.00000°,δ67.00000°,λ-73.00000°. $M_0$1.11000×10^{15}

(228) Near east coast of eastern Honshu

ISC III 18 22 24 21.4–2.3 38.84N–.06 142.0E–.20 47–18 3.6b 17 1-59
ISCJB III 18 22 24 21.0–1.6 38.85N–.05 142.0E–.20 56–10 3.7b **¶602672000**
JMA III 18 22 24 21.6–.10 38.86N 142.03E 44–1 3.8
IDC III 18 22 24 27.8–9.3 38.75N 141.76E 100–57 3.7,3.5b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=23.1km s-min=7.7km az=11.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=127.5km s-min=22.8km az=71.0.

(228) Near east coast of eastern Honshu

JMA III 18 23 00 06.0–.20 38.35N 142.17E 34–3 3.7
¶603049922
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 18 23 08 16.0–.55 39.76N–.04 142.52E–.04 29–3 4.6b,4.0s 237 1-145
NIED III 18 23 08 00 39.70N 142.60E 20 4.3W,4.0s **¶600556542**
JMA III 18 23 08 12.7–.20 39.65N 142.64E 21–2 4.5,4.0s
ISCJB III 18 23 08 15.3–.53 39.72N–.03 142.56E–.04 36–4 4.6b,3.9s
MOS III 18 23 08 16.4–.98 39.89N 142.45E 38 4.9b,3.9s
IDC III 18 23 08 17.4–2.5 39.65N 142.55E 45–24 4.2,4.1
NEIC III 18 23 08 18.0–.59 39.76N 142.48E 44–5 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S139.00000°,δ38.00000°,λ21.00000°. NP2:ϕ_S33.00000°,δ77.00000°,λ126.00000°. $M_0$3.43000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=141.6.
MOS Error ellipse: s-maj=8.4km s-min=5.0km az=97.9.
IDC Error ellipse: s-maj=14.6km s-min=11.8km az=99.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=137.0.

(228) Near east coast of eastern Honshu

ISC III 18 23 15 45.2–2.0 36.72N–.06 141.3E–.10 30–11 3.5b 22 1-147
IDC III 18 23 15 40.6–1.4 36.76N 141.37E 0 3.6,3.6b **¶600556547**
ISCJB III 18 23 15 45.7–1.4 36.73N–.05 141.2E–.10 47–8 3.5b,3.6b
JMA III 18 23 15 47.0–.10 36.76N 141.11E 45–1 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=27.3km az=47.0.
ISCJB Event type fe. Error ellipse: s-maj=17.2km s-min=7.6km az=16.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 18 23 19 00.1 36.76N 140.64E 7–1 2.9
¶603049921
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 18 23 19 47.4–.41 35.93N–.04 141.76E–.05 23 4.6b 100 1-154
IDC III 18 23 19 43.6–.41 35.89N 141.80E 0 4.5,4.4 **¶17197097**
JMA III 18 23 19 44.8–.30 35.97N 141.82E 19–4 4.5,4.4
ISCJB III 18 23 19 45.6–.28 35.90N–.03 141.79E–.04 23 4.5b,4.4
NEIC III 18 23 19 48.9–.27 35.89N 141.77E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=10.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=28.6.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.8km az=119.0.

(228) Near east coast of eastern Honshu

ISC III 18 23 29 14.9–3.2 39.01N–.06 142.33E–.09 26–22 3.8b 25 1-88
JMA III 18 23 29 15.1–.10 39.02N 142.35E 26–1 3.7 **¶17197099**
IDC III 18 23 29 18.4–4.2 38.94N 142.30E 58–40 3.8,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.7km s-min=16.8km az=95.0.

(228) Near east coast of eastern Honshu

ISC III 18 23 32 59.7–.25 39.21N–.03 142.43E–.03 32–1 5.6b,5.1s 1539 1-162
NIED III 18 23 32 00 39.20N 142.40E 41 5.5W,5.1s **¶602669128**
BJI III 18 23 32 54.8 39.06N 142.55E 24 5.5b,5.5b
IDC III 18 23 32 59.7–2.3 39.14N 142.30E 31–16 5.2,5.1
JMA III 18 23 32 59.8–.10 39.19N 142.42E 37–1 5.7,5.1
ISCJB III 18 23 33 00.3–.37 39.13N–.02 142.29E–.02 48–3 5.6b,5.1s
MOS III 18 23 33 00.2–.94 39.21N 142.26E 45 5.8b,5.1s
NEIC III 18 23 33 01.4–.18 39.16N 142.23E 42–1 5.6b,5.5W
GCMT III 18 23 33 01.4–.10 39.24N 142.36E 25–0 5.6W,5.5W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S238.00000°,δ5.00000°,λ132.00000°. NP2:ϕ_S16.00000°,δ86.00000°,λ87.00000°. $M_0$1.74000×10^{17}
IDC Error ellipse: s-maj=9.5km s-min=7.4km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=148.4.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=102.4.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=138.0. Recorded [4 JMA] in Iwate. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}0.47 $M_{\theta\theta}$0.05 $M_{r\theta}$0.38 $M_{\theta\phi}$1.19 $M_{\phi r}$1.34 Best double couple: NP1:ϕ_S93.00000°,δ46.00000°,λ18.00000°. NP2:ϕ_S350.00000°,δ77.00000°,λ135.00000°. Principal axes: T 2.0700,Plg40.0000° ,Azm301.0000°; N -0.4200,Plg44.0000°,Azm158.0000°; P -1.6500,Plg19.0000° ,Azm48.0000° $M_0$1.90000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c127; s118,c200; Duration: 1$s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.09±.02 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$-0.18±.01; $M_{r\theta}$1.00±.04; $M_{\theta\phi}$-0.15±.01; $M_{\phi r}$2.86±.07; Best double couple: NP1:ϕ_S19.00000°,δ88.00000° ,λ89.00000°. NP2:ϕ_S219.00000°,δ2.00000°,λ110.00000°. Principal axes: T 2.9570,Plg47.0000°,Azm289.0000°; N 0.1530,Plg1.0000°,Azm19.0000° ; P -3.1100,Plg43.0000°,Azm110.0000° $M_0$3.03400×10^{17}

(246) Southwestern Ryukyu Islands

ISC III 18 23 34 31.1–.38 24.20N–.04 125.32E–.04 40–3 5.1s,5.0b 172 1-173
NIED III 18 23 34 00 24.20N 125.30E 44 4.8W,5.0b **¶16479284**
IDC III 18 23 34 25.2–.50 24.22N 125.33E 0 4.9,4.8
ISCJB III 18 23 34 28.5–.36 24.16N–.02 125.40E–.02 33–3 5.0s,4.9b
NEIC III 18 23 34 29.7–1.5 24.22N 125.31E 28–11 5.2b,5.1s
BJI III 18 23 34 29.1 24.21N 125.26E 29 5.1b,5.0b
JMA III 18 23 34 30.7–.10 24.25N 125.29E 57–4 4.9,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S78.00000°,δ49.00000°,λ7.00000°. NP2: ϕ_S343.00000°,δ85.00000°,λ139.00000°. $M_0$1.91000×10^{16}
IDC Error ellipse: s-maj=16.9km s-min=10.6km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=145.2.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.4km az=108.0. Recorded [1 JMA] on Iriomote-jima, Ishigaki-jima, Miyako-jima and Tarama-shima.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 18 23 49 05.1–.56 37.74N–.04 141.88E–.03 25–3 4.9s,4.9b 331 1-155
IDC III 18 23 49 01.0–.40 37.76N 141.89E 0 4.6s,4.6 **¶602669106**
JMA III 18 23 49 02.6–.20 37.73N 141.91E 16–2 5.3,4.6
BJI III 18 23 49 03.3 37.60N 141.95E 33 5.3b,5.1s
ISCJB III 18 23 49 03.1–.65 37.71N–.02 141.89E–.03 21–4 4.9s,4.8b
MOS III 18 23 49 04.7–1.0 37.73N 141.87E 33 5.0b,5.0s
NEIC III 18 23 49 06.7–1.4 37.76N 141.83E 34–10 5.1b,5.0s
ISC Event type ke.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=141.4.
MOS Error ellipse: s-maj=7.8km s-min=5.6km az=106.6.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.6km az=131.0.

(228) Near east coast of eastern Honshu

ISC III 18 23 49 31.6–.84 36.77N–.05 140.62E–.04 8–5 5.0b,4.6s 432 0-158

NIED III 18 23 49 00 36.80N 140.70E 5 5.1W,4.6s **¶602443723**
IDC III 18 23 49 31.4–.55 36.99N 140.48E 0 5.0,4.8
JMA III 18 23 49 31.4 36.74N 140.60E 5–1 5.3,4.8
ISCJB III 18 23 49 31.6–.82 36.79N–.04 140.55E–.03 11–4 4.8b,4.5s
GCMT III 18 23 49 36.5–.20 36.73N 140.53E 12 5.1W,4.5s
NEIC III 18 23 49 36.5–1.5 36.94N 140.62E 40–12 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$4.00000°,δ31.00000°,λ-99.00000°. NP2:$\phi_8$195.00000°,δ59.00000°,λ-85.00000°. M$_0$5.30000×10^{16}
IDC Error ellipse: s-maj=17.6km s-min=11.9km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=168.3.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c36; s109,c183; Duration: 0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$-5.11±.09 M$_{\theta\theta}$0.61±.09; M$_{\phi\phi}$4.50±.07; M$_{r\theta}$-0.57±.35; M$_{\theta\phi}$0.77±.07; M$_{\theta r}$0.88±.31; Best double couple: NP1:$\phi_8$183.00000°,δ50.00000°,λ-99.00000°. NP2:$\phi_8$18.00000°,δ41.00000°,λ-79.00000°. Principal axes:
T 4.7050,Plg4.0000°,Azm280.0000°; N 0.5490,Plg7.0000°,Azm189.0000°
; P -5.2580,Plg82.0000°,Azm42.0000° M$_0$4.98200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=16.5km s-min=9.3km az=151.0. Recorded [4 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
JMA III 18 23 51 44.9–.10 38.30N 141.88E 48–3 4.0
¶602669105
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 19 00 01 25.0–.62 38.20N–.06 142.74E–.07 18 4.2b 53 1-89
NIED III 19 00 01 00 38.30N 142.60E 20 4.2W **¶16479291**
ISCJB III 19 00 01 23.6–.42 38.27N–.05 142.78E–.05 18 4.2b
JMA III 19 00 01 26.2–.10 38.33N 142.61E 22–3 4.3
NEIC III 19 00 01 29.4–.76 38.22N 142.68E 54–6 4.3b
IDC III 19 00 01 29.3–2.4 38.22N 142.66E 52–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$238.00000°,δ24.00000°,λ8.00000°. NP2:$\phi_8$141.00000°,δ87.00000°,λ114.00000°. M$_0$2.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.2km az=129.0.
IDC Error ellipse: s-maj=18.1km s-min=13.7km az=109.0.
(228) Near east coast of eastern Honshu
ISC III 19 00 07 50.1–1.3 37.83N–.05 141.73E–.08 62–10 4.0b 50 1-146
NIED III 19 00 07 00 37.80N 141.70E 53 4.1W **¶600556598**
JMA III 19 00 07 49.4–.10 37.83N 141.74E 54–2 4.2
ISCJB III 19 00 07 49.4–.81 37.84N–.04 141.70E–.08 71–6 3.9b
IDC III 19 00 07 52.9–2.0 37.82N 141.55E 88–18 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$159.00000°,δ37.00000°,λ59.00000°. NP2:$\phi_8$16.00000°,δ59.00000°,λ111.00000°. M$_0$1.81000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.0km az=19.4.
IDC Error ellipse: s-maj=16.4km s-min=13.0km az=83.0.
(228) Near east coast of eastern Honshu
ISC III 19 00 19 17.2–1.7 39.71N–.06 142.49E–.06 17–10 4.4b 43 1-95
NIED III 19 00 19 00 39.70N 142.60E 23 4.0W **¶602675249**
JMA III 19 00 19 16.3–.30 39.66N 142.63E 19–2 4.2
IDC III 19 00 19 22.3–3.3 39.62N 142.55E 62–29 4.1,4.0
NEIC III 19 00 19 22.8–.64 39.63N 142.53E 66–5 4.4b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$132.00000°,δ27.00000°,λ20.00000°. NP2:$\phi_8$24.00000°,δ81.00000°,λ116.00000°. M$_0$1.21000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=20.4km s-min=16.9km az=98.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.7km az=116.0.
(228) Near east coast of eastern Honshu
JMA III 19 00 21 07.3–.10 36.91N 141.13E 51–1 3.7
¶602675248
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 19 00 23 53.5–1.5 36.40N–.05 140.96E–.06 30–10 3.9b 31 0-69
NIED III 19 00 23 00 36.40N 141.00E 35 3.7W **¶600556627**
IDC III 19 00 23 48.7–1.2 36.29N 141.06E 0 3.9L,3.8
ISCJB III 19 00 23 53.0–.90 36.36N–.05 141.02E–.07 44–7 3.9b,3.8
JMA III 19 00 23 53.6–.10 36.37N 140.96E 45–1 3.6,3.8
NEIC III 19 00 23 54.6–1.3 36.31N 140.98E 43–9 4.0b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$139.00000°,δ44.00000°,λ28.00000°. NP2:$\phi_8$29.00000°,δ71.00000°,λ130.00000°. M$_0$4.25000×10^{14}
IDC Error ellipse: s-maj=27.6km s-min=23.4km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.6km az=28.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.5km az=147.0.
(228) Near east coast of eastern Honshu
JMA III 19 00 39 26.4 36.68N 140.57E 7–1 3.5
¶602675205
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 00 41 26.8–.98 36.70N–.04 140.61E–.05 9–6 3.4b 23 0-91
IDC III 19 00 41 25.1–.93 36.59N 140.66E 0 3.7,3.5 **¶602675191**
ISCJB III 19 00 41 25.5–.84 36.66N–.04 140.73E–.06 13–4 3.3b,3.5
JMA III 19 00 41 26.9 36.72N 140.59E 6–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=20.9km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.3km az=31.6.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 00 45 16.5–.62 37.88N–.06 142.03E–.06 30 3.9b 43 1-146
NIED III 19 00 45 00 37.90N 141.90E 53 4.1W **¶600556665**
ISCJB III 19 00 45 14.6–.46 37.86N–.04 142.11E–.05 30 3.9b
JMA III 19 00 45 17.4–.20 37.91N 141.92E 36–5 4.1
IDC III 19 00 45 18.8–2.5 37.91N 141.96E 51–24 3.8,3.8
NEIC III 19 00 45 19.9–.68 37.94N 141.96E 61–6 4.1b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$257.00000°,δ30.00000°,λ-169.00000°. NP2:$\phi_8$157.00000°,δ84.00000°,λ-60.00000°. M$_0$1.48000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.1km az=145.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=14.8km az=102.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=135.0.
(228) Near east coast of eastern Honshu
ISC III 19 00 57 10.7–.73 36.85N–.04 141.17E–.04 48–6 4.5b,3.8s 206 0-147
NIED III 19 00 57 00 36.80N 141.20E 47 4.5W,3.8s **¶16338023**
BJI III 19 00 57 07.5 36.70N 141.50E 65 5.0b,4.6b
MOS III 19 00 57 07.5–1.2 36.85N 141.21E 33 4.6b,4.6b
ISCJB III 19 00 57 10.0–.38 36.84N–.02 141.14E–.03 54–3 4.6b,3.7s
JMA III 19 00 57 10.3–.10 36.81N 141.14E 48–1 4.1,3.7s
IDC III 19 00 57 12.2–1.8 36.79N 141.10E 63–16 4.2,4.1
NEIC III 19 00 57 13.1–.41 36.85N 141.06E 67–4 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$218.00000°,δ11.00000°,λ85.00000°. NP2:$\phi_8$43.00000°,δ79.00000°,λ91.00000°. M$_0$6.26000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=5.7km az=93.5.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.8km az=31.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=10.5km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=136.0. Recorded [3 JMA] in Fukushima.
(229) Off east coast of Honshu
ISC III 19 01 22 45.4–.40 39.67N–.03 143.19E–.03 24–2 5.7b,5.7s 1783 1-154
NIED III 19 01 22 00 39.70N 143.30E 17 5.8W,5.7s **¶602442495**
BJI III 19 01 22 40.9 39.70N 143.10E 10 6.3s,6.2
JMA III 19 01 22 42.3–.30 39.66N 143.35E 13–4 6.1,6.2
NEIC III 19 01 22 44.0–.00 39.47N 143.57E 15 6.1,6.2
GCMT III 19 01 22 44.8–.10 39.67N 143.29E 22–0 5.9W,6.2
NEIC III 19 01 22 44.8–.11 39.70N 142.90E 15 5.9W,5.9W
ISCJB III 19 01 22 45.0–.57 39.63N–.02 143.09E–.02 30–4 5.8s,5.6b
MOS III 19 01 22 45.4–.98 39.74N 143.09E 33 5.9b,5.9s
IDC III 19 01 22 46.3–3.9 39.62N 143.20E 31–28 5.7,5.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$190.00000°,δ19.00000°,λ80.00000°. NP2:$\phi_8$21.00000°,δ71.00000°,λ94.00000°. M$_0$6.23000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M$_{rr}$3.77 M$_{\theta\theta}$-0.64 M$_{\phi\phi}$-3.13 M$_{r\theta}$2.62 M$_{\theta\phi}$-0.27 M$_{\theta r}$6.65 Best double couple: NP1:$\phi_8$20.00000° ,δ77.00000°,λ94.00000°. NP2:$\phi_8$180.00000°,δ13.00000°,λ71.00000°. Principal axes:
T 8.3100,Plg57.0000°,Azm295.0000°; N -0.7600,Plg4.0000°,Azm198.0000°
; P -7.5500,Plg32.0000°,Azm106.0000° M$_0$8.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c242; s135,c398;Duration: 2^{s}1 Moment tensor: Scale 10^{17}Nm; M$_{rr}$4.65±.06 M$_{\theta\theta}$-0.06±.04; M$_{\phi\phi}$-4.59±.05; M$_{r\theta}$2.44±.09; M$_{\theta\phi}$-0.92±.03; M$_{\theta r}$5.90±.13; Best double couple: NP1:$\phi_8$20.00000° ,δ72.00000°,λ96.00000°. NP2:$\phi_8$182.00000°,δ19.00000°,λ73.00000°. Principal axes:
T 7.9360,Plg63.0000°,Azm299.0000°; N -0.0060,Plg6.0000°,Azm198.0000°
; P -7.9330,Plg27.0000°,Azm106.0000° M$_0$7.93500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=144.0. Recorded [3 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s78 Moment tensor: Scale 10^{17}Nm; M$_{rr}$4.06 M$_{\theta\theta}$0.55 M$_{\phi\phi}$-3.51 M$_{r\theta}$2.38 M$_{\theta\phi}$-2.62 M$_{\theta r}$5.45 Best double couple: NP1:$\phi_8$219.00000° ,δ19.00000°,λ104.00000°. NP2:$\phi_8$24.00000°,δ71.00000°,λ85.00000°. Principal axes:
T 7.0300,Plg63.0000°,Azm287.0000°; N 0.9300,Plg4.0000°,Azm26.0000°
; P -7.9600,Plg26.0000°,Azm118.0000° M$_0$7.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:$\phi_8$190.00000°,δ10.00000°,λ90.00000°. NP2: $\phi_8$10.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm280.0000°
; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm100.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=152.8.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=96.5.
IDC Error ellipse: s-maj=12.0km s-min=10.1km az=106.0.
(229) Off east coast of Honshu
ISC III 19 01 27 13.6–.54 39.61N–.03 143.10E–.04 30–3 5.8s,5.3b 557 1-154
NIED III 19 01 27 00 39.60N 143.30E 17 5.4W,5.3b **¶16338027**
JMA III 19 01 27 10.4–.30 39.61N 143.32E 21 5.7,5.3b
BJI III 19 01 27 11.7 39.48N 142.84E 21 5.9s,5.8
MOS III 19 01 27 11.4–1.2 39.55N 143.31E 33 5.6b,5.8
IDC III 19 01 27 13.8–2.4 39.63N 143.24E 31–17 5.0,4.8
ISCJB III 19 01 27 13.6–.41 39.57N–.02 143.12E–.03 42–3 5.8s,5.3b
GCMT III 19 01 27 13.6–.30 39.57N 143.56E 37–0 5.5W,5.3b
NEIC III 19 01 27 13.7–1.7 39.55N 143.05E 32–11 5.4b,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$187.00000°,δ18.00000°,λ72.00000°. NP2:$\phi_8$26.00000°,δ72.00000°,λ96.00000°. M$_0$1.32000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=88.4.
IDC Error ellipse: s-maj=12.4km s-min=9.9km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=42.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c55; s101,c174; Duration: 1^{s}3 Moment tensor: Scale 10^{17}Nm; M$_{rr}$1.53±.10 M$_{\theta\theta}$-0.28±.05; M$_{\phi\phi}$-1.26±.05; M$_{r\theta}$0.47±.04; M$_{\theta\phi}$-0.32±.02; M$_{\theta r}$0.99±.04; Best double couple: NP1:$\phi_8$21.00000°,δ64.00000° ,λ94.00000°. NP2:$\phi_8$193.00000°,δ27.00000°,λ82.00000°. Principal axes:
T 1.9030,Plg71.0000°,Azm300.0000°; N -0.1900,Plg3.0000°,Azm200.0000°
; P -1.7180,Plg19.0000°,Azm109.0000° M$_0$1.81100×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=133.0.
(228) Near east coast of eastern Honshu
JMA III 19 02 06 46.4–.10 38.94N 142.35E 30–2 3.8
¶603049296
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(706) Northern Sumatera
ISC III 19 02 33 46.3–.41 0.79N–.03 97.40E–.04 27–2 5.1b,4.7s 467 1-150
IDC III 19 02 33 42.3–.37 0.84N 97.43E 0 4.9,4.9b **¶16338030**
BJI III 19 02 33 43.1 0.56N 97.49E 31 5.3b,5.2b
ISCJB III 19 02 33 45.5–.47 0.81N–.02 97.45E–.03 33–4 5.0b,4.7s
MOS III 19 02 33 45.8–.94 0.89N 97.49E 33 5.3b,4.7s
DJA III 19 02 33 46.4–.70 1N–3.0 97E–5.0 31–7 5.8b,5.7b
NEIC III 19 02 33 47.6–.54 0.83N 97.45E 36–4 5.2b,5.7b
GCMT III 19 02 33 47.6–.50 0.79N 97.36E 31–0 5.1W,5.7b
KLM III 19 02 33 48.1 0.81N 97.40E 39 6.0s,5.2b
ISC Event type fe.
IDC Error ellipse: s-maj=11.3km s-min=9.7km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=145.8.
MOS Error ellipse: s-maj=8.2km s-min=4.6km az=113.7.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=2.9km az=51.0. Felt [III] at Gunungsitoli.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c48; s47,c60; Duration: 0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$6.18±.34 M$_{\theta\theta}$-2.39±.21; M$_{\phi\phi}$-3.80±.27; M$_{r\theta}$0.22±.29; M$_{\theta\phi}$1.19±.14; M$_{\theta r}$-1.78±.32; Best double couple: NP1:$\phi_8$156.00000°,δ54.00000° ,λ95.00000°. NP2:$\phi_8$327.00000°,δ36.00000°,λ83.00000°. Principal axes:
T 6.4880,Plg80.0000°,Azm90.0000°; N -1.7660,Plg4.0000°,Azm333.0000°
; P -4.7320,Plg9.0000°,Azm242.0000° M$_0$5.61000×10^{16}
(228) Near east coast of eastern Honshu
ISC III 19 02 55 55.9–.52 37.73N–.03 141.72E–.04 33–1 4.7b 345 1-152
NIED III 19 02 55 00 37.70N 141.70E 50 4.6W **¶16338032**
MOS III 19 02 55 54.9–1.1 37.79N 141.65E 36 5.1b
NEIC III 19 02 55 56.5–.62 37.68N 141.57E 37–5 4.7b
ISCJB III 19 02 55 56.4–.42 37.71N–.02 141.65E–.03 51–3 4.7b,4.2s
JMA III 19 02 55 57.0–.10 37.74N 141.69E 45–2 4.7,4.2s
IDC III 19 02 55 59.3–1.9 37.72N 141.58E 63–17 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$174.00000°,δ10.00000°,λ64.00000°. NP2:$\phi_8$20.00000°,δ81.00000°,λ95.00000°. M$_0$9.21000×10^{15}
MOS Error ellipse: s-maj=7.4km s-min=4.5km az=100.3.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=27.9.
JMA Event type fe.
IDC Error ellipse: s-maj=12.2km s-min=10.0km az=99.0.
(228) Near east coast of eastern Honshu
JMA III 19 03 53 35.9–.10 37.56N 141.62E 42–2 3.6
¶602675403
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 19 04 22 23.6–1.5 36.39N–.05 140.87E–.06 29–10 3.8b 28 0-75
JMA III 19 04 22 23.9–.10 36.38N 140.91E 42–1 3.7 **¶17197132**
ISCJB III 19 04 22 23.2–.84 36.36N–.04 140.96E–.07 44–7 3.7b
IDC III 19 04 22 25.5–2.8 36.34N 140.89E 48–26 3.7,3.7L
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.4km az=10.8.
IDC Error ellipse: s-maj=27.1km s-min=9.9km az=61.0.
(228) Near east coast of eastern Honshu
ISC III 19 04 30 19.2–.61 38.13N–.05 141.94E–.07 30 4.0b,3.7s 37 1-89
NIED III 19 04 30 00 38.20N 142.20E 5 4.2W,3.7s **¶602675690**
JMA III 19 04 30 15.1–.10 38.15N 142.16E 16–2 4.3,3.7s
ISCJB III 19 04 30 17.2–.45 38.08N–.04 142.04E–.06 30 3.9b,3.7s
IDC III 19 04 30 23.4–2.8 38.11N 141.78E 67–26 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:$\phi_8$356.00000°,δ43.00000°,λ-74.00000°. NP2:$\phi_8$155.00000°,δ49.00000°,λ-104.00000°. M$_0$2.50000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.4km az=176.1.
IDC Error ellipse: s-maj=16.7km s-min=14.7km az=108.0.
(228) Near east coast of eastern Honshu
JMA III 19 05 28 53.6–.10 39.21N 142.38E 31–1 3.9
¶602674939
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC III 19 05 30 04.6–1.7 36.51N–.07 140.72E–.08 19–3 3.8b 18 0-60
IDC III 19 05 30 00.2–2.2 36.00N 140.85E 0 3.9,3.7 **¶600556969**
ISCJB III 19 05 30 02.6–1.4 36.44N–.05 140.82E–.08 11–5 3.7b,3.7
JMA III 19 05 30 03.8 36.48N 140.76E 19–1 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=63.8km s-min=21.7km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.3km az=34.1.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 19 05 41 30.4–.10 35.74N 141.00E 9–1 3.7
NIED III 19 05 41 00 35.70N 141.00E 5 3.6W **¶600556982**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ38.00000°,λ-42.00000°. NP2:ϕ_s141.00000°,δ66.00000°,λ-120.00000°. $M_0$2.83000×10^{14}
(228) Near east coast of eastern Honshu
ISC III 19 06 01 48.9–.51 38.10N–.05 141.97E–.06 30 4.2b,3.5s 69 1-146
NIED III 19 06 01 00 38.10N 142.10E 5 4.4W,3.5s **¶600557002**
IDC III 19 06 01 44.1–.61 38.06N 142.01E 0 4.1,4.0
JMA III 19 06 01 45.5–.20 38.13N 142.12E 11–2 4.2,4.0
ISCJB III 19 06 01 46.8–.31 38.04N–.03 142.04E–.04 30 4.2b,3.6s
NEIC III 19 06 01 50.1–.63 38.08N 141.94E 40–6 4.6b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ33.00000°,λ-85.00000°. NP2:ϕ_s144.00000°,δ57.00000°,λ-93.00000°. $M_0$3.97000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=13.4km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.6km az=19.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=113.0.
(228) Near east coast of eastern Honshu
ISC III 19 06 31 23.3–1.4 36.77N–.06 140.62E–.05 5–10 3.5b 22 0-91
NIED III 19 06 31 00 36.70N 140.60E 5 3.5W **¶602674642**
IDC III 19 06 31 22.4–.86 36.72N 140.63E 0 3.8,3.6
ISCJB III 19 06 31 23.0–.85 36.69N–.04 140.70E–.06 14–4 3.5b,3.6
JMA III 19 06 31 24.2 36.73N 140.60E 4–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ38.00000°,λ-91.00000°. NP2:ϕ_s158.00000°,δ52.00000°,λ-89.00000°. $M_0$2.31000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=19.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.8km az=24.7.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 06 43 06.1–1.2 36.20N–.04 141.14E–.05 26–8 4.6b 140 1-118
NIED III 19 06 43 00 36.20N 141.30E 11 4.2W **¶16338038**
IDC III 19 06 43 01.6–.53 36.16N 141.16E 0 4.5,4.4
JMA III 19 06 43 03.8–.10 36.16N 141.25E 43–2 4.5,4.4
ISCJB III 19 06 43 05.2–.62 36.18N–.03 141.12E–.04 30–4 4.5b,4.2s
NEIC III 19 06 43 07.5–1.6 36.24N 141.05E 33–11 4.7b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ24.00000°,λ-94.00000°. NP2:ϕ_s51.00000°,δ66.00000°,λ-88.00000°. $M_0$2.51000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.9km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.7km az=27.4.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=150.0.
(229) Off east coast of Honshu
ISC III 19 06 53 05.8–.50 39.92N–.03 143.15E–.03 25–3 5.0b,4.6s 490 1-146
NIED III 19 06 53 00 39.90N 143.20E 17 4.8W,4.6s **¶602674619**
IDC III 19 06 53 01.6–.52 39.87N 143.19E 0 4.8,4.8
JMA III 19 06 53 01.8–.20 39.95N 143.19E 0 4.9,4.8
ISCJB III 19 06 53 03.6–.67 39.88N–.02 143.16E–.02 20–4 4.9b,4.5s
BJI III 19 06 53 05.2 39.97N 143.10E 43 5.1b,5.1b
MOS III 19 06 53 05.3–.89 40.07N 143.01E 26 5.3b,4.7s
NEIC III 19 06 53 07.4–1.1 39.92N 143.03E 34–8 4.9b,4.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ70.00000°. NP2:ϕ_s30.00000°,δ73.00000°,λ96.00000°. $M_0$1.52000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=11.2km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=142.3.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=100.9.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=134.0.
(228) Near east coast of eastern Honshu
ISC III 19 07 03 12.6–1.2 35.77N–.08 139.75E–.09 35 3.3b 7 1-56
IDC III 19 07 02 55.6–2.7 36.18N 142.11E 0 3.5,3.5 **¶17197151**
ISCJB III 19 07 03 11.7–.95 35.82N–.08 139.73E–.08 35 3.2b,3.5
JMA III 19 07 03 19.4–.10 36.15N 141.20E 42–2 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=61.5km s-min=26.8km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=9.6km az=162.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(159) North Island
ISC III 19 07 11 46.3–.77 38.99S–.03 176.21E–.03 84–5 3.9b 214 0-154
IDC III 19 07 11 38.8–1.7 36.94S 176.38E 0 4.2,4.0 **¶16338681**
ISCJB III 19 07 11 45.9–.28 39.01S–.02 176.22E–.03 90–3 3.9b,4.0
WEL III 19 07 11 47.5–.13 38.95S 176.20E 78–1 4.1L,4.0
NEIC III 19 07 11 47.3 38.95S 176.20E 80 4.1L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=57.2km s-min=23.1km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=23.1.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Waikato to Wellington, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(228) Near east coast of eastern Honshu
ISC III 19 07 17 32.7–.84 35.72N–.05 140.74E–.07 45 3.5b 21 0-59
ISCJB III 19 07 17 32.0–.57 35.72N–.04 140.69E–.09 45 3.6b **¶16479366**
JMA III 19 07 17 32.6–.10 35.75N 140.66E 47–1 3.1
IDC III 19 07 17 34.8–2.6 35.62N 140.48E 62–23 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.0km s-min=12.8km az=75.0.
(162) South Island
WEL III 19 07 24 46.6–.08 43.58S 172.65E 4–0 3.5L
¶16338682
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(229) Off east coast of Honshu
ISC III 19 07 41 12.1–.73 37.89N–.04 142.94E–.04 28–4 4.7b,4.0s 327 2-151
NIED III 19 07 41 00 37.90N 142.90E 14 4.6W,4.0s **¶16338041**
IDC III 19 07 41 07.6–.44 37.88N 143.03E 0 4.6,4.5
ISCJB III 19 07 41 09.5–.94 37.88N–.03 142.94E–.03 20–6 4.7b,4.1s
JMA III 19 07 41 09.5–.30 37.88N 142.92E 18 4.8,4.1s
MOS III 19 07 41 11.8–1.1 37.94N 142.88E 37 5.0b,4.1s
NEIC III 19 07 41 13.5–.52 37.86N 142.91E 37–5 4.8b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ45.00000°,λ-97.00000°. NP2:ϕ_s217.00000°,δ46.00000°,λ-83.00000°. $M_0$7.80000×10^{15}
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=113.4.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=133.0.
(228) Near east coast of eastern Honshu
ISC III 19 08 02 23.5–.38 38.95N–.04 142.40E–.05 27 4.7b,3.5s 180 1-147
NIED III 19 08 02 00 39.00N 142.50E 23 4.4W,3.5s **¶16447648**
JMA III 19 08 02 22.2–.20 39.00N 142.45E 26–2 4.5,3.5s
ISCJB III 19 08 02 22.0–.19 38.95N–.03 142.42E–.03 27 4.5b,3.5s
IDC III 19 08 02 23.2–.69 38.95N 142.48E 26–3 4.3,4.2
NEIC III 19 08 02 25.5–.47 38.97N 142.41E 41–4 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ28.00000°,λ-137.00000°. NP2:ϕ_s145.00000°,δ71.00000°,λ-69.00000°. $M_0$5.30000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=158.8.
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=148.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=136.0.
(159) North Island
WEL III 19 08 34 42.6–.24 39.62S 174.15E 212–1 4.7L
NEIC III 19 08 34 42.5 39.63S 174.15E 212 4.3b **¶16339523**
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=1.1km az=90.0. Felt from Taranaki to Wellington, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Aokautere, Karori, Palmerston North and Te Horo. After WEL.
(124) Chile-Bolivia border region
ISC III 19 08 35 01.0–.32 22.04S–.03 68.52W–.04 108–2 5.0b 957 1-174
SCB III 19 08 34 56.9–.92 22.13S 68.42W 98 4.6L **¶16338043**
ISCJB III 19 08 34 58.6–.29 21.96S–.02 68.46W–.03 100–2 5.0b
SJA III 19 08 34 59.1–1.4 22.11S 67.86W 312–33 4.3L,3.4W
MOS III 19 08 35 00.6–1.4 21.98S 68.46W 111 5.1b,3.4W
GUC III 19 08 35 01.4–.61 21.98S 68.87W 117–7 5.3L,3.4W
IDC III 19 08 35 02.0–.54 21.88S 68.41W 111–4 5.1,4.8
NEIC III 19 08 35 01.0 21.98S 68.87W 117 5.2W,5.0b
BJI III 19 08 35 01.5 22.00S 68.30W 96 5.2b,5.0b
GCMT III 19 08 35 01.0–.20 22.00S 68.83W 131–1 5.3W,5.0b
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=25.2km s-min=7.6km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=139.1.
SJA Error ellipse: s-maj=14.3km s-min=32.6km az=-1.0.
MOS Error ellipse: s-maj=13.4km s-min=6.8km az=109.8.
GUC Error ellipse: s-maj=2.1km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=59.0.
NEIC Event type fe. Felt [IV] at Calama, [III] at Oficina Maria Elena and [II] at Huara and Sierra Gorda. After GUC. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.55 $M_{\theta\theta}$-2.72 $M_{\phi\phi}$8.26 $M_{r\theta}$3.22 $M_{\theta\phi}$-0.15 $M_{\phi r}$-4.56 Best double couple: NP1:ϕ_s335.00000° ,δ67.00000°,λ-11.00000°. NP2:ϕ_s208.00000°,δ35.00000°,λ-43.00000°. Principal axes: T 9.7300,Plg18.0000°,Azm85.0000°; N -1.2000,Plg25.0000°,Azm346.0000° ; P -8.5300,Plg59.0000°,Azm206.0000° $M_0$9.20000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c114; s104,c176; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$0.94±.03; $M_{r\theta}$0.16±.01; $M_{\theta\phi}$-0.20±.02; $M_{\phi r}$-0.60±.02; Best double couple: NP1:ϕ_s347.00000°,δ62.00000° ,λ-93.00000°. NP2:ϕ_s173.00000°,δ28.00000°,λ-85.00000°. Principal axes: T 1.1720,Plg17.0000°,Azm79.0000°; N -0.1280,Plg3.0000°,Azm348.0000° ; P -1.0420,Plg73.0000°,Azm250.0000° $M_0$1.10700×10^{17}
(123) Northern Chile
ISC III 19 09 12 40.6–.39 20.23S–.03 69.18W–.06 101–3 4.5b 114 1-168
ISCJB III 19 09 12 39.6–.32 20.22S–.03 69.19W–.06 106–3 4.4b **¶16339141**
BJI III 19 09 12 40.0 20.10S 69.10W 90 5.2b
NEIC III 19 09 12 40.9–.35 20.13S 69.08W 102 4.7W,4.7b
IDC III 19 09 12 41.6–.48 20.06S 69.03W 103–3 4.6,4.3
GUC III 19 09 12 41.5–.44 20.32S 69.54W 109–3 5.0L,4.3
SCB III 19 09 12 43.5–.60 19.94S 68.77W 106 4.4L,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.7km az=6.5.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=6.8km az=93.0. Felt [III] at Alto Hospicio, Camina, Huara, La Tirana, Pisagua and Pozo Almonte and [II] at Pica. Also felt at Iquique. Moment Tensor Solution. s9 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.56 $M_{\theta\theta}$-0.79 $M_{\phi\phi}$1.35 $M_{r\theta}$0.66 $M_{\theta\phi}$-0.54 $M_{\phi r}$0.42 Best double couple: NP1:ϕ_s308.00000°,δ57.00000°,λ-156.00000°. NP2:ϕ_s205.00000°,δ70.00000°,λ-35.00000°. Principal axes: T 1.5100,Plg8.0000° ,Azm259.0000°; N 0.0000,Plg50.0000°,Azm359.0000°; P -1.5100,Plg39.0000° ,Azm163.0000° $M_0$1.50000×10^{16}
IDC Error ellipse: s-maj=14.1km s-min=11.7km az=69.0.
GUC Error ellipse: s-maj=2.3km s-min=4.5km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=19.6km s-min=5.1km az=63.0.
(228) Near east coast of eastern Honshu
ISC III 19 09 36 45.5–2.1 36.18N–.06 141.04E–.08 16–14 3.4b 13 0-56
IDC III 19 09 36 44.4–1.3 35.93N 141.14E 0 3.6,3.5b **¶602674368**
ISCJB III 19 09 36 46.3–.95 36.23N–.04 141.04E–.08 31–6 3.5b,3.5b
JMA III 19 09 36 46.5 36.22N 141.02E 35–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=38.7km s-min=26.5km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=7.0km az=173.2.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 09 56 19.7–1.0 36.79N–.03 140.51E–.04 7–7 3.8b 30 0-78
IDC III 19 09 56 18.1–.79 36.70N 140.50E 0 4.0,3.8 **¶602443727**
ISCJB III 19 09 56 19.1–.64 36.76N–.03 140.65E–.06 16–4 3.7b,3.8
JMA III 19 09 56 19.6 36.78N 140.57E 6–1 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.2km s-min=17.3km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.0km az=18.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s316.00000°,δ62.00000°,λ-101.00000°. NP2:ϕ_s158.00000°,δ30.00000°,λ-70.00000°. Principal axes: T Plg16.0000°,Azm54.0000°; N Plg10.0000°,Azm321.0000°; P Plg71.0000° ,Azm201.0000°
(228) Near east coast of eastern Honshu
ISC III 19 09 56 49.5–.36 36.81N–.02 140.45E–.02 17–1 6.0b,5.5s 2054 0-165
NIED III 19 09 56 00 36.70N 140.70E 5 5.8W,5.5s **¶17197181**
BJI III 19 09 56 43.3 36.61N 140.83E 16 5.9s,5.7
ISCJB III 19 09 56 47.6–.52 36.75N–.01 140.36E–.01 15–3 5.9b,5.5s
GCMT III 19 09 56 47.8–.10 36.86N 140.48E 12 5.8W,5.5s
NEIC III 19 09 56 47.7–.07 36.80N 140.27E 6 6.1b,5.7W
JMA III 19 09 56 48.0 36.78N 140.57E 5–1 6.1,5.7W
MOS III 19 09 56 49.4–1.1 36.77N 140.31E 30 6.2b,5.6s
IDC III 19 09 56 51.9–1.6 36.81N 140.39E 33–11 5.6,5.6
NEIC III 19 09 56 51.0–.00 36.66N 140.93E 12 5.6,5.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ42.00000°,λ-86.00000°. NP2:ϕ_s141.00000°,δ48.00000°,λ-94.00000°. $M_0$6.35000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=152.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c242; s142,c432;Duration: 2$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.88±.04 $M_{\theta\theta}$3.01±.04; $M_{\phi\phi}$3.87±.05; $M_{r\theta}$1.33±.12; $M_{\theta\phi}$-2.71±.04; $M_{\phi r}$2.14±.13; Best double couple: NP1: ϕ_s156.00000°,δ51.00000°,λ-69.00000°. NP2:ϕ_s305.00000°,δ44.00000°,λ-113.00000°. Principal axes: T 6.2320,Plg4.0000°,Azm231.0000°; N 1.3840,Plg16.0000°,Azm322.0000° ; P -7.6160,Plg74.0000°,Azm129.0000° $M_0$6.92400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=143.0. Felt [V] at Yokohama, [IV] at Tokyo, [III] at Ayase and Yokosuka and [II] at Sagamihara. Felt widely in southeastern Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.50 $M_{\theta\theta}$3.53 $M_{\phi\phi}$0.97 $M_{r\theta}$-0.83 $M_{\theta\phi}$-1.56 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s304.00000° ,δ42.00000°,λ-77.00000°. NP2:ϕ_s106.00000°,δ49.00000°,λ-10.00000°. Principal axes: T 4.3000,Plg4.0000°,Azm205.0000°; N 0.3500,Plg9.0000°,Azm114.0000° ; P -4.6500,Plg80.0000°,Azm317.0000° $M_0$4.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s125.00000°,δ30.00000°,λ-90.00000°. NP2: ϕ_s305.00000°,δ60.00000°,λ-90.00000°. Principal axes: T Plg15.0000°,Azm35.0000° ; N Plg0.0000°,Azm0.0000°; P Plg75.0000°,Azm215.0000°
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=109.6.
IDC Error ellipse: s-maj=9.5km s-min=5.9km az=107.0.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.58 $M_{\theta\theta}$2.31 $M_{\phi\phi}$2.28 $M_{r\theta}$0.82 $M_{\theta\phi}$-1.39 $M_{\phi r}$-0.27 Best double couple: NP1:ϕ_s310.00000° ,δ50.00000°,λ-95.00000°. NP2:ϕ_s138.00000°,δ40.00000°,λ-83.00000°. Principal axes: T 3.7500,Plg5.0000°,Azm43.0000°; N 0.9300,Plg3.0000°,Azm313.0000° ; P -4.6800,Plg83.0000°,Azm187.0000° $M_0$4.30000×10^{17}
(228) Near east coast of eastern Honshu
JMA III 19 10 07 17.7 36.73N 140.64E 6–1 3.1
¶603049927
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 10 11 47.3–1.0 36.71N–.05 140.60E–.07 12–7 3.8b 17 0-60
ISCJB III 19 10 11 45.8–1.1 36.65N–.07 140.79E–.07 12–5 3.7b **¶602674273**
IDC III 19 10 11 45.0–1.7 36.82N 140.76E 0 3.9,3.7
JMA III 19 10 11 47.7 36.72N 140.63E 6–1 3.7,3.7

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=8.3km az=143.0.
IDC Error ellipse: s-maj=37.1km s-min=21.6km az=63.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 10 15 35.2–1.5**	**36.75N–.05**	**140.77E–.06**	**8–9**	**3.8b**	**33**	**0-91**
ISCJB	III	19 10 15 34.8–.87	36.70N–.04	140.84E–.05	18–6	4.5s,3.7b		**¶602674270**
IDC	III	19 10 15 34.1–.82	36.79N	140.78E	0	4.5,4.5s		
JMA	III	19 10 15 36.7	36.74N	140.64E	6–1	3.6,4.5s		
NEIC	III	19 10 15 39.0–.46	36.76N	140.74E	35	4.3b,4.5s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=42.0.
IDC Error ellipse: s-maj=20.7km s-min=16.9km az=148.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.7km az=126.0.
(227) Eastern Honshu

JMA	**III**	**19 10 17 04.1–.10**	**37.00N**	**140.97E**	**50–1**	**3.6**		
								¶16461976

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 10 25 48.6–1.6**	**37.05N–.09**	**141.6E–.10**	**35**	**3.5b**	**14**	**1-57**
IDC	III	19 10 25 42.4–2.5	37.09N	141.85E	0	3.7,3.7b		**¶17197186**
ISCJB	III	19 10 25 46.9–1.2	37.01N–.08	141.7E–.10	35	3.6b,3.7b		
JMA	III	19 10 25 49.3–.30	37.06N	141.46E	45–2	3.4,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=65.9km s-min=28.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=11.4km az=155.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 10 26 12.8–1.4**	**36.81N–.08**	**140.59E–.06**	**8–11**	**3.8b**	**14**	**0-91**
IDC	III	19 10 26 11.6–1.0	36.79N	140.61E	0	4.0,3.7		**¶17197189**
ISCJB	III	19 10 26 12.5–.86	36.74N–.05	140.68E–.07	16–6	3.7b,3.7		
JMA	III	19 10 26 13.5	36.78N	140.57E	6–1	3.7,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=19.6km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=8.0km az=35.4.
JMA Event type fe.
(259) Mindanao

ISC	**III**	**19 10 35 48.3–2.1**	**9.96N–.06**	**126.44E–.07**	**17–13**	**3.6b**	**24**	**1-94**
IDC	III	19 10 35 45.7–.93	9.96N	126.18E	0	3.8,3.7		**¶17197191**
MAN	III	19 10 35 54	9.78N	126.18E	14	3.9b,2.7L		

ISC Event type fe.
IDC Error ellipse: s-maj=64.0km s-min=18.7km az=73.0.
MAN Event type fe. INTENSITY II - GENERAL LUNA SIARGAO ISLAND.
(135) Near coast of central Chile

ISC	**III**	**19 10 57 22.7–1.5**	**33.69S–.04**	**72.10W–.06**	**8–9**	**4.2b**	**47**	**1-154**
SJA	III	19 10 57 21.6–.94	33.51S	72.51W	10	4.0L,3.2W		**¶16479423**
IDC	III	19 10 57 21.9–1.1	33.65S	71.91W	0	4.1,4.0		
NEIC	III	19 10 57 25.0	33.81S	71.90W	16	4.4b,4.0L		
GUC	III	19 10 57 25.7–.66	33.81S	71.90W	16–7	4.0L,4.0L		

ISC Event type fe.
SJA Error ellipse: s-maj=10.4km s-min=7.5km az=-1.0.
IDC Error ellipse: s-maj=35.2km s-min=25.0km az=102.0.
NEIC Event type fe. Felt [II] at El Quisco and San Antonio. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=4.7km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 11 17 39.1–1.1**	**36.77N–.03**	**140.58E–.05**	**6–7**	**3.8b**	**34**	**0-153**
NIED	III	19 11 17 00	36.80N	140.60E	38	4.3W		**¶602674162**
IDC	III	19 11 17 38.4–.94	36.78N	140.64E	0	4.1,3.8b		
JMA	III	19 11 17 38.9	36.77N	140.58E	8	3.8,3.8b		
ISCJB	III	19 11 17 38.5–.67	36.74N–.04	140.66E–.06	11–4	3.8b,3.8b		
NEIC	III	19 11 17 43.2–.51	36.86N	140.45E	35	4.3b,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ50.00000°,λ46.00000°. NP2:ϕ_s105.00000°,δ57.00000°,λ130.00000°. $M_0$3.01000×10^{15}
IDC Error ellipse: s-maj=28.5km s-min=19.0km az=152.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=34.1.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=9.2km az=156.0.
(229) Off east coast of Honshu

ISC	**III**	**19 11 18 19.2–2.6**	**36.32N–.05**	**142.50E–.06**	**15–16**	**4.5b,4.0s**	**130**	**1-151**
NIED	III	19 11 18 00	36.30N	142.50E	8	4.4W,4.0s		**¶600557298**
IDC	III	19 11 18 16.8–.61	36.31N	142.52E	0	4.5,4.4		
ISCJB	III	19 11 18 17.1–1.3	36.34N–.03	142.52E–.04	12–8	4.5b,4.0s		
JMA	III	19 11 18 20.0–.20	36.31N	142.46E	73	4.4,4.0s		
MOS	III	19 11 18 20.4–1.1	36.39N	142.51E	34	4.8b,4.0s		
NEIC	III	19 11 18 22.1–.32	36.37N	142.47E	35	4.6b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ42.00000°,λ55.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ117.00000°. $M_0$4.72000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=13.5km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.3km az=152.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.7km az=112.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.5km az=119.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 11 19 22.5**	**36.71N**	**140.60E**	**8–1**	**3.2**		
								¶603049931

JMA Event type fe.
(721) Finland

ISC	**III**	**19 11 21 51.6–.64**	**60.60N–.02**	**25.23E–.02**	**0**		**290**	**0-9**
ISCJB	III	19 11 21 51.0–.28	60.68N–.02	25.28E–.04	0			**¶16338689**
CSEM	III	19 11 21 52.7–.14	60.62N	25.32E	1–0	2.6L		
NAO	III	19 11 21 52.0–1.0	60.60N	25.30E		2.8L		
HEL	III	19 11 21 53.3–.10	60.56N	25.30E	5	2.8L,2.6L		
NEIC	III	19 11 21 53.3	60.57N	25.30E	3	2.6L,2.5L		
BER	III	19 11 21 53.3–3.9	60.59N	25.26E	0	2.8L,2.5L		
UPP	III	19 11 21 54.6–1.8	60.57N	25.09E	0	2.5L,2.5L		
IDC	III	19 11 21 54.7–1.9	60.78N	25.01E	0	3.6,3.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=2.6km s-min=2.6km az=141.8.
CSEM Event type sm. Error ellipse: s-maj=3.3km s-min=2.9km az=128.0. Suspected Mining explosion.
HEL Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0.
NEIC Event type fe. Felt at Hyvinkaa, Jarvenpaa, Mantsala, Nurmijarvi and Tuusula. After HEL.
BER Event type sh. Error ellipse: s-maj=7.3km s-min=15.5km az=-1.0. Suspected explosion.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=24.6km s-min=5.4km az=147.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 11 42 08.0–1.4**	**36.78N–.04**	**140.58E–.06**	**10–14**		**13**	**0-69**
IDC	III	19 11 41 55.5–4.8	36.63N	141.18E	0	3.9b,3.6		**¶603049933**
ISCJB	III	19 11 42 07.6–.95	36.76N–.05	140.6E–.10	13–9	3.8b,3.6		
JMA	III	19 11 42 08.1	36.78N	140.57E	6–1	3.2,3.6		

ISC Event type fe.
IDC Error ellipse: s-maj=94.2km s-min=36.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=20.2km s-min=5.1km az=19.1.
JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 11 56 24.1**	**36.72N**	**140.63E**	**5–1**	**3.5**		
								¶602674864

JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 12 09 29.4–1.1**	**35.79N–.06**	**140.88E–.10**	**10**		**8**	**0-65**
NIED	III	19 12 09 00	35.80N	140.90E	8	3.8W		**¶602674820**
ISCJB	III	19 12 09 28.1–1.1	35.81N–.06	140.98E–.09	10	3.5b		
JMA	III	19 12 09 29.4–.10	35.79N	140.91E	10–1	3.5		
IDC	III	19 12 09 31.4–3.4	36.47N	140.71E	0	3.8,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ48.00000°,λ-158.00000°. NP2:ϕ_s207.00000°,δ74.00000°,λ-44.00000°. $M_0$5.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=8.4km az=17.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=96.7km s-min=31.2km az=160.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 12 15 03.0–3.6**	**36.8N–.10**	**141.4E–.20**	**42–21**	**3.4b**	**15**	**1-46**
IDC	III	19 12 14 48.7–9.1	36.30N	142.52E	0	3.5,3.5		**¶17197223**
JMA	III	19 12 15 03.5–.10	36.76N	141.33E	45–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=163.8km s-min=70.5km az=144.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 12 15 33.4**	**36.73N**	**140.62E**	**4–1**	**3.2**		
								¶603145374

JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 12 35 47.6**	**36.74N**	**140.63E**	**7–1**	**2.9**		
								¶603145375

JMA Event type fe.
(76) Off coast of central America

ISC	**III**	**19 12 43 41.0–.83**	**12.48N–.07**	**88.93W–.05**	**69–6**	**4.4b**	**273**	**1-148**
IDC	III	19 12 43 35.7–1.5	13.04N	88.50W	0	4.2,4.0		**¶16339527**
CASC	III	19 12 43 38.6–1.8	12.53N	88.94W	22–7	4.5b,4.1		
ISCJB	III	19 12 43 38.3–.66	12.43N–.05	88.92W–.04	54–4	4.4b,4.1		
BJI	III	19 12 43 40.1	12.40N	88.80W	67	4.9b,4.1		
NEIC	III	19 12 43 40.8–.83	12.45N	88.85W	61–8	4.5b,4.0		

ISC Event type fe.
IDC Error ellipse: s-maj=50.1km s-min=24.6km az=42.0.
CASC Error ellipse: s-maj=5.9km s-min=5.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.7km az=38.1.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=6.8km az=217.0. Felt [I] at San Salvador.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 13 13 48.7–1.1**	**36.72N–.05**	**140.65E–.06**	**24–7**		**18**	**0-57**
IDC	III	19 13 13 47.0–2.9	36.45N	140.84E	0	3.7L,3.6		**¶600557443**
ISCJB	III	19 13 13 50.0–.73	36.77N–.04	140.6E–.10	11–8	3.1b,3.6		
JMA	III	19 13 13 50.3	36.78N	140.56E	7–1	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=68.6km s-min=32.8km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=4.9km az=18.5.
JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 13 14 05.9–.10**	**38.59N**	**141.99E**	**31–2**	**3.8**		
								¶602674084

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 13 28 35.6**	**36.75N**	**140.60E**	**7**	**2.8**		
								¶603145376

JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 13 39 15.5–1.1**	**36.28N–.05**	**140.48E–.06**	**48–8**	**3.4b**	**24**	**0-51**
NIED	III	19 13 39 00	36.20N	140.50E	80	3.7W		**¶17197243**
IDC	III	19 13 39 09.9–1.8	36.48N	140.55E	0	3.5,3.5		
ISCJB	III	19 13 39 14.6–.69	36.26N–.04	140.47E–.06	57–5	3.3b,3.5		
JMA	III	19 13 39 15.3–.10	36.25N	140.46E	51–1	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ44.00000°,λ-22.00000°. NP2:ϕ_s272.00000°,δ75.00000°,λ-131.00000°. $M_0$4.16000×10^{14}
IDC Error ellipse: s-maj=33.7km s-min=27.5km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.6km az=20.3.
JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 13 58 53.0–.10**	**36.81N**	**141.12E**	**48–1**	**3.6**		
NIED	III	19 13 58 00	36.80N	141.10E	59	3.5W		**¶600557502**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ32.00000°,λ142.00000°. NP2:ϕ_s172.00000°,δ71.00000°,λ64.00000°. $M_0$2.30000×10^{14}
(228) Near east coast of eastern Honshu

ISC	**III**	**19 15 26 43.4–1.2**	**37.53N–.04**	**141.60E–.07**	**52–11**	**4.1b**	**63**	**1-146**
NIED	III	19 15 26 00	37.50N	141.50E	56	4.0W		**¶16461984**
IDC	III	19 15 26 36.5–.58	37.51N	141.42E	0	4.2,4.0		
NEIC	III	19 15 26 42.2–.48	37.59N	141.52E	35	4.2b,4.0		
ISCJB	III	19 15 26 43.1–.60	37.50N–.03	141.51E–.07	67–4	3.9b,4.0		
JMA	III	19 15 26 44.3–.10	37.55N	141.49E	53–2	4.2,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ40.00000°,λ92.00000°. NP2:ϕ_s44.00000°,δ50.00000°,λ88.00000°. $M_0$1.24000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=14.7km az=86.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.4km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.9km az=8.6.
JMA Event type fe.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 15 41 15.3–.10**	**36.85N**	**141.12E**	**49–1**	**3.6**		
								¶602673515

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(2) Southern Alaska

ISC	**III**	**19 15 43 25.3–.86**	**61.37N–.03**	**146.69W–.03**	**41–8**	**3.8b**	**94**	**0-75**
ISCJB	III	19 15 43 25.1–.21	61.39N–.03	146.68W–.04	52–4	3.8b		**¶16339528**
IDC	III	19 15 43 26.0–2.4	61.25N	146.86W	60–19	3.7,3.7		
NEIC	III	19 15 43 26.7	61.40N	146.68W	29	3.6L,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=21.4.
IDC Error ellipse: s-maj=37.9km s-min=10.6km az=112.0.
NEIC Event type fe. Felt [II] at Valdez. After AEIC.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 16 23 35.4–1.8**	**36.2N–.10**	**140.6E–.10**	**51–9**	**3.5b**	**18**	**0-46**
IDC	III	19 16 23 19.2–6.2	34.68N	140.88E	0	3.8,3.7		**¶17197271**
JMA	III	19 16 23 35.9	36.25N	140.49E	53–1	3.3,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=101.8km s-min=66.9km az=132.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ87.00000°,λ86.00000°. NP2:ϕ_s250.00000°,δ5.00000°,λ146.00000°. Principal axes: T Plg48.0000°,Azm279.0000°; N Plg4.0000°,Azm14.0000°; P Plg42.0000° ,Azm108.0000°
(228) Near east coast of eastern Honshu

ISC	**III**	**19 16 28 42.3–.79**	**39.89N–.06**	**142.40E–.07**	**31**	**4.0b**	**30**	**1-73**
IDC	III	19 16 28 37.7–.96	39.87N	142.40E	0	4.0,3.9		**¶16479511**
ISCJB	III	19 16 28 40.1–.55	39.88N–.05	142.55E–.07	31	3.9b,3.9		
JMA	III	19 16 28 43.5–.10	39.94N	142.39E	33–2	3.7,3.9		
NEIC	III	19 16 28 46.6–.86	39.88N	142.37E	72–8	4.2b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=19.0km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.5km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.0km az=114.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**19 16 38 16.9–1.1**	**36.74N–.03**	**140.52E–.04**	**7–7**	**4.2b**	**55**	**0-147**
IDC	III	19 16 38 15.9–.52	36.71N	140.55E	0	4.3,4.2		**¶602673430**
ISCJB	III	19 16 38 16.7–.72	36.69N–.03	140.71E–.05	17–4	4.1b,4.2		
JMA	III	19 16 38 17.2	36.71N	140.64E	5–1	4.1,4.2		
NEIC	III	19 16 38 23.0–1.5	36.63N	140.49E	56–13	4.3b,4.2		

ISC Event type ke.
IDC Error ellipse: s-maj=14.0km s-min=12.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=34.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s299.00000°,δ49.00000°,λ-114.00000°. NP2:ϕ_s153.00000°,δ47.00000°,λ-65.00000°. Principal axes: T Plg1.0000°,Azm46.0000°; N Plg18.0000°,Azm316.0000°; P Plg72.0000° ,Azm139.0000°
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=10.8km az=109.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu

JMA	**III**	**19 16 48 43.6**	**36.74N**	**140.57E**	**10–1**	**3.0**		
								¶602673400

JMA Event type fe.

(228) Near east coast of eastern Honshu
JMA III 19 16 49 50.0–.10 36.32N 140.98E 40–1 3.8
NIED III 19 16 49 00 36.30N 141.00E 47 3.9W ¶600557709
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ26.00000°,λ-108.00000°. NP2:ϕ_s310.00000°,δ65.00000°,λ-81.00000°. $M_0$6.85000×10^{14}
(228) Near east coast of eastern Honshu
JMA III 19 17 02 01.6–.10 36.01N 141.05E 28–2 3.5
¶602673387
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 19 17 04 07.4–.68 39.21N–.04 142.33E–.04 49–5 4.7b,4.2s 295 1-89
IDC III 19 17 04 00.7–.61 39.11N 142.26E 0 4.4,4.3 ¶17197279
NIED III 19 17 04 00 39.20N 142.40E 35 4.6W,4.3
JMA III 19 17 04 04.7–.10 39.17N 142.35E 32–1 4.5,4.3
MOS III 19 17 04 04.5–1.0 39.23N 142.24E 33 5.0b,4.3s
ISCJB III 19 17 04 05.9–.46 39.17N–.03 142.27E–.03 47–3 4.6b,4.1s
BJI III 19 17 04 06.9 39.18N 142.26E 63 5.0b,4.5b
NEIC III 19 17 04 08.7–.56 39.14N 142.21E 59–5 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.7km az=131.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ14.00000°,λ-141.00000°. NP2:ϕ_s198.00000°,δ81.00000°,λ-79.00000°. $M_0$8.13000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=4.8km az=99.9.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=138.5.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=136.0.
(230) Near south coast of eastern Honshu
ISC III 19 17 54 03.3–.96 35.23N–.05 139.03E–.05 5–9 3.6b 17 0-59
JMA III 19 17 54 03.8 35.28N 139.01E 1–1 2.7 ¶602673215
IDC III 19 17 54 08.0–1.4 35.44N 138.62E 0 3.6b,3.6
ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ70.00000°,λ-28.00000°. NP2:ϕ_s274.00000°,δ64.00000°,λ-158.00000°. Principal axes: T Plg4.0000°,Azm225.0000°; N Plg57.0000°,Azm321.0000°; P Plg33.0000°,Azm132.0000°
IDC Error ellipse: s-maj=54.9km s-min=10.7km az=75.0.
(228) Near east coast of eastern Honshu
ISC III 19 18 10 42.6–.77 39.69N–.04 142.45E–.04 24–4 4.5b,3.8s 162 1-149
NIED III 19 18 10 00 39.70N 142.30E 41 4.5W,3.8s ¶16461963
BJI III 19 18 10 38.3 39.30N 143.20E 72 4.8b,4.6b
NEIC III 19 18 10 40.7–1.1 39.23N 142.92E 45–8 4.6b,4.6b
ISCJB III 19 18 10 44.9–.65 39.71N–.03 142.29E–.06 54–4 4.4b,3.6s
JMA III 19 18 10 45.3–.10 39.75N 142.27E 43–1 4.3,3.6s
IDC III 19 18 10 48.0–2.2 39.71N 142.20E 67–20 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ18.00000°,λ79.00000°. NP2:ϕ_s25.00000°,δ72.00000°,λ93.00000°. $M_0$5.86000×10^{15}
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=11.7km az=109.0.
(228) Near east coast of eastern Honshu
ISC III 19 19 01 33.8–2.1 36.85N–.05 141.21E–.07 2–13 3.4b 23 0-90
NIED III 19 19 01 00 36.90N 141.20E 5 3.9W ¶17197301
JMA III 19 19 01 37.0–.10 36.93N 141.18E 33–1 3.8
IDC III 19 19 01 41.3–4.4 36.81N 141.26E 60–40 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ9.00000°,λ96.00000°. NP2: ϕ_s219.00000°,δ81.00000°,λ89.00000°. $M_0$8.76000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=25.4km az=97.0.
(228) Near east coast of eastern Honshu
ISC III 19 19 12 50.4–2.6 36.8N–.10 140.50E–.08 4–16 3.4b 14 0-57
IDC III 19 19 12 49.9–1.9 36.70N 140.54E 0 3.4,3.2 ¶17197304
JMA III 19 19 12 50.1 36.80N 140.57E 7–1 3.4,3.2
ISCJB III 19 19 12 50.1–1.3 36.76N–.06 140.61E–.10 13–7 3.2b,3.2
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 19 30 58.8–2.0 37.38N–.05 141.4E–.10 29–11 3.4b 17 1-75
ISCJB III 19 19 30 56.6–1.5 37.33N–.06 141.54E–.10 26–8 3.4b ¶17197307
IDC III 19 19 30 58.4–.93 37.03N 140.20E 0 3.7,3.5
JMA III 19 19 30 59.6–.10 37.38N 141.35E 27–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=8.9km az=163.3.
IDC Error ellipse: s-maj=27.8km s-min=21.3km az=90.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 19 19 34 30.9–.10 39.36N 142.36E 29–1 3.6
¶602673846
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 19 20 05 05.6–.10 37.16N 141.19E 21–1 3.5
¶602673752
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 20 06 22.4–.70 36.84N–.04 141.18E–.05 43–6 4.5b,3.6s 163 0-147
NIED III 19 20 06 00 36.80N 141.10E 68 4.5W,3.6s ¶16339534
MOS III 19 20 06 20.1–1.2 36.89N 141.12E 33 4.6b,3.6s
ISCJB III 19 20 06 21.9–.45 36.84N–.03 141.17E–.04 54–3 4.4b,3.7s
JMA III 19 20 06 23.6–.10 36.84N 141.06E 50–1 4.3,3.7s
IDC III 19 20 06 24.9–2.2 36.88N 141.12E 65–19 4.2,4.1
NEIC III 19 20 06 25.4–.73 36.85N 141.05E 70–6 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ17.00000°,λ143.00000°. NP2:ϕ_s22.00000°,δ80.00000°,λ77.00000°. $M_0$6.03000×10^{15}
MOS Error ellipse: s-maj=8.3km s-min=6.5km az=104.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=21.6.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=12.8km az=86.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.4km az=99.0.
(558) Ethiopia
ISC III 19 20 08 11.8–.65 6.68N–.04 38.54E–.05 17–3 4.9b,4.5s 381 2-130
BJI III 19 20 08 05.9 6.11N 38.31E 15 5.2b,5.0s ¶16339535
MOS III 19 20 08 09.4–.91 6.73N 38.55E 13 5.1b,4.3s
IDC III 19 20 08 09.3–.46 6.71N 38.53E 0 4.6,4.6b
GCMT III 19 20 08 10.4–.20 6.81N 38.62E 12 5.0W,4.6b
NEIC III 19 20 08 10.4–.20 6.66N 38.52E 10 5.0b,4.6b
ISCJB III 19 20 08 12.1–1.4 6.69N–.03 38.46E–.03 32–9 4.8b,4.4s
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c66; s107,c177;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.19±.08 $M_{\theta\theta}$1.15±.07; $M_{\phi\phi}$3.04±.09; $M_{r\theta}$0.68±.23; $M_{\theta\phi}$1.69±.06; $M_{\phi r}$-1.11±.25; Best double couple: NP1:ϕ_s17.00000°,δ51.00000°,λ-108.00000°. NP2:ϕ_s223.00000°,δ42.00000°,λ-70.00000°. Principal axes: T 4.0790,Plg4.0000°,Azm119.0000°; N 0.4360,Plg14.0000°,Azm28.0000°; P -4.5150,Plg76.0000°,Azm227.0000° $M_0$4.29700×10^{16}
NEIC Event type fe. Felt at Addis Ababa, Awassa and Dila.
ISCJB Event type fe.
(227) Eastern Honshu
JMA III 19 20 27 49.8–.10 36.09N 139.98E 46–1 3.0
¶603049941
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 19 20 48 26.7–.80 37.65N–.04 141.91E–.04 45–7 4.6b,3.5s 256 1-146
NIED III 19 20 48 00 37.70N 141.80E 50 4.4W,3.5s ¶16339537
MOS III 19 20 48 24.2–.95 37.70N 141.78E 33 4.8b,3.5s
ISCJB III 19 20 48 26.3–.44 37.68N–.03 141.80E–.03 55–3 4.5b,3.6s
JMA III 19 20 48 27.5–.10 37.69N 141.73E 45–2 4.6,3.6s
IDC III 19 20 48 29.0–1.9 37.71N 141.66E 60–17 4.4,4.2
NEIC III 19 20 48 28.8–.56 37.68N 141.70E 63–5 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ41.00000°,λ124.00000°. NP2:ϕ_s165.00000°,δ57.00000°,λ64.00000°. $M_0$4.07000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=94.7.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=43.7.
JMA Event type fe.
IDC Error ellipse: s-maj=13.3km s-min=10.9km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=137.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
JMA III 19 20 56 47.2–.20 38.96N 142.43E 28–3 3.5
¶603145378
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(227) Eastern Honshu
ISC III 19 21 02 12.7–1.5 37.12N–.07 141.1E–.10 35 3.4b 16 0-57
IDC III 19 21 02 06.0–2.3 37.27N 141.42E 0 3.3,3.3b ¶602672927
ISCJB III 19 21 02 10.3–1.1 37.10N–.07 141.3E–.10 35 3.2b,3.3b
JMA III 19 21 02 14.3–.10 37.14N 140.95E 43–1 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=59.0km s-min=26.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=9.1km az=165.5.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 21 10 50.7–2.1 36.70N–.07 141.13E–.09 13–12 3.4b 16 0-60
NIED III 19 21 10 00 36.70N 141.00E 8 3.4W ¶17197329
ISCJB III 19 21 10 47.5–1.4 36.66N–.06 141.30E–.06 4–7 3.4b
IDC III 19 21 10 48.6–1.3 36.69N 141.21E 0 3.6,3.3
JMA III 19 21 10 52.1 36.73N 141.04E 20–1 3.7,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ50.00000°,λ-141.00000°. NP2:ϕ_s219.00000°,δ61.00000°,λ-47.00000°. $M_0$1.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=8.5km az=167.8.
IDC Error ellipse: s-maj=27.5km s-min=25.4km az=83.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 19 21 20 10.9–.55 38.56N–.06 142.52E–.05 24 4.5b 100 1-117
NIED III 19 21 20 00 38.60N 142.50E 20 4.1W ¶16339539
ISCJB III 19 21 20 08.8–.37 38.57N–.04 142.62E–.04 24 4.3b,3.1s
JMA III 19 21 20 10.5–.20 38.55N 142.47E 26–3 4.2,3.1s
MOS III 19 21 20 10.9–1.2 38.59N 142.68E 44 4.7b,3.1s
NEIC III 19 21 20 13.4–.88 38.56N 142.55E 45–7 4.4b,3.1s
IDC III 19 21 20 14.9–2.5 38.51N 142.49E 58–22 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s126.00000°,δ40.00000°,λ-128.00000°. NP2:ϕ_s352.00000°,δ60.00000°,λ-62.00000°. $M_0$1.71000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.7km az=156.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=6.2km az=99.6.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.0km az=122.0.
IDC Error ellipse: s-maj=17.2km s-min=13.3km az=111.0.
(228) Near east coast of eastern Honshu
ISC III 19 21 22 34.4–.87 38.58N–.08 142.49E–.09 24 4.0b 28 1-82
NIED III 19 21 22 00 38.60N 142.40E 23 3.8W ¶16479306
IDC III 19 21 22 29.4–1.3 38.59N 142.77E 0 4.0,3.9b
ISCJB III 19 21 22 32.1–.61 38.56N–.06 142.59E–.07 24 3.9b,3.9b
JMA III 19 21 22 34.1–.20 38.57N 142.43E 17–2 4.4,3.9b
NEIC III 19 21 22 38.2–1.5 38.51N 142.38E 58–11 4.2b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ42.00000°,λ-129.00000°. NP2:ϕ_s354.00000°,δ59.00000°,λ-60.00000°. $M_0$5.60000×10^{14}
IDC Error ellipse: s-maj=40.0km s-min=19.7km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=7.5km az=15.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=8.0km az=92.0.
(228) Near east coast of eastern Honshu
ISC III 19 22 10 23.2–1.1 36.63N–.05 141.08E–.10 39–4 3.5b 22 0-57
NIED III 19 22 10 00 36.70N 141.00E 47 3.7W ¶17197342
ISCJB III 19 22 10 21.7–.94 36.61N–.04 141.10E–.08 44–8 3.5b
JMA III 19 22 10 23.1–.10 36.66N 140.96E 49–1 3.7
IDC III 19 22 10 24.4–3.1 36.55N 141.05E 54–30 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ36.00000°,λ6.00000°. NP2:ϕ_s24.00000°,δ86.00000°,λ126.00000°. $M_0$3.46000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.9km az=6.8.
JMA Event type fe.
IDC Error ellipse: s-maj=26.0km s-min=12.4km az=63.0.
(228) Near east coast of eastern Honshu
ISC III 19 22 37 12.2–.54 38.13N–.06 142.22E–.06 30 4.2b 68 1-146
NIED III 19 22 37 00 38.20N 142.20E 41 4.1W ¶600558220
ISCJB III 19 22 37 10.2–.39 38.10N–.04 142.30E–.05 30 4.1b,3.0s
JMA III 19 22 37 12.1–.20 38.19N 142.21E 41–4 4.1,3.0s
IDC III 19 22 37 14.2–1.7 38.12N 142.20E 47–16 4.1,4.0
NEIC III 19 22 37 15.7–.59 38.20N 142.18E 59–4 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ42.00000°,λ-115.00000°. NP2:ϕ_s62.00000°,δ53.00000°,λ-70.00000°. $M_0$1.37000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=146.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.1km az=100.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=131.0.
(228) Near east coast of eastern Honshu
ISC III 19 23 03 46.6–1.1 36.73N–.05 140.64E–.07 13–7 3.5b 17 0-57
NIED III 19 23 03 00 36.70N 140.60E 5 3.4W ¶17197348
IDC III 19 23 03 43.7–2.4 36.90N 140.92E 0 3.7,3.6b
ISCJB III 19 23 03 46.0–1.0 36.70N–.04 140.75E–.08 19–5 3.4b,2.7s
JMA III 19 23 03 47.4 36.74N 140.63E 7–1 3.5,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ35.00000°,λ-95.00000°. NP2:ϕ_s124.00000°,δ56.00000°,λ-87.00000°. $M_0$1.63000×10^{14}
IDC Error ellipse: s-maj=57.6km s-min=27.8km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.9km az=19.1.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 19 23 24 47.1–.10 38.66N 142.17E 39–2 3.8
NIED III 19 23 24 00 38.70N 142.20E 47 3.7W ¶603145379
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ24.00000°,λ8.00000°. NP2:ϕ_s41.00000°,δ87.00000°,λ114.00000°. $M_0$3.60000×10^{14}
(228) Near east coast of eastern Honshu
ISC III 19 23 26 51.5–1.8 37.19N–.04 142.03E–.05 30–12 4.7b 236 1-146
NIED III 19 23 26 00 37.20N 142.00E 23 4.4W ¶602672564
ISCJB III 19 23 26 48.1–.83 37.15N–.02 142.05E–.03 18–5 4.7b,3.8s
JMA III 19 23 26 49.8–.20 37.19N 142.00E 39–3 4.5,3.8s
MOS III 19 23 26 50.0–.81 37.16N 142.05E 33 4.9b,3.8s
IDC III 19 23 26 52.0–2.9 37.17N 142.01E 34–22 4.4,4.3
NEIC III 19 23 26 52.6–.41 37.17N 142.02E 37–4 4.8b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ41.00000°,λ91.00000°. NP2:ϕ_s222.00000°,δ49.00000°,λ89.00000°. $M_0$4.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.8km az=24.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.6km az=115.0.
IDC Error ellipse: s-maj=11.8km s-min=10.5km az=100.0.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=136.0.
(228) Near east coast of eastern Honshu
JMA III 19 23 28 24.2–.10 36.65N 140.97E 45–1 2.7
¶16479315
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC III 19 23 32 16.3–1.0 38.61N–.08 142.20E–.10 41 3.6b 21 1-78
NIED III 19 23 32 00 38.60N 141.90E 50 3.8W **¶17197350**
IDC III 19 23 32 09.8–1.0 38.74N 142.58E 0 3.8,3.7
ISCJB III 19 23 32 14.2–.80 38.66N–.06 142.35E–.09 41 3.6b,3.7
JMA III 19 23 32 19.0–.10 38.61N 141.88E 50–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ18.00000°,λ128.00000°. NP2:ϕ_s15.00000°,δ76.00000°,λ79.00000°. $M_0$6.33000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=19.6km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=8.6km az=148.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 19 23 37 11.1–.45 38.62N–.04 141.95E–.04 44–3 4.9b,3.8s 561 1-155
NIED III 19 23 37 00 38.60N 141.90E 50 4.7W,3.8s **¶16461970**
MOS III 19 23 37 09.9–.85 38.87N 141.76E 33 5.1b,3.8s
BJI III 19 23 37 10.0 38.61N 141.95E 60 4.9b,4.7b
JMA III 19 23 37 11.7–.10 38.61N 141.89E 51–1 4.7,4.7b
ISCJB III 19 23 37 11.8–.33 38.67N–.02 141.80E–.03 58–2 4.8b,3.8s
NEIC III 19 23 37 12.4–.28 38.67N 141.79E 49–2 4.9b,3.8s
IDC III 19 23 37 13.0–1.9 38.63N 141.83E 60–16 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ37.00000°,λ49.00000°. NP2:ϕ_s60.00000°,δ63.00000°,λ116.00000°. $M_0$1.48000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=97.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=153.3.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=152.0.
IDC Error ellipse: s-maj=11.1km s-min=10.5km az=122.0.

(228) Near east coast of eastern Honshu

ISC III 19 23 52 45.6–2.2 38.96N–.06 142.0E–.20 60–14 3.7b 18 1-63
IDC III 19 23 52 23.8–2.2 38.65N 144.39E 0 3.8,3.7b **¶17197354**
JMA III 19 23 52 45.9–.10 38.95N 142.03E 55–1 3.8,3.7b
ISCJB III 19 23 52 45.2–1.4 38.95N–.05 142.0E–.20 70–8 3.6b,3.7b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(162) South Island

ISC III 20 00 10 21.9–.89 44.33S–.03 169.93E–.02 13–6 4.2b 93 0-153
IDC III 20 00 10 20.6–1.1 44.29S 169.84E 0 4.4,4.3b **¶16339547**
WEL III 20 00 10 22.2–.12 44.29S 169.90E 5 4.6L,4.3b
ISCJB III 20 00 10 22.2–.38 44.30S–.03 169.93E–.04 21–4 4.2b,3.5s
NEIC III 20 00 10 22.4 44.34S 169.96E 9 4.6L,4.3b
ISC Event type fe.
IDC Error ellipse: s-maj=35.7km s-min=10.3km az=158.0.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 5.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.4km az=138.4.
NEIC Event type fe. Felt [IV] at Twizel. After WEL. Moment Tensor Solution. s9 Moment tensor: Scale 10^{15}Nm; M_{rr}1.45 $M_{\theta\theta}$0.37 $M_{\phi\phi}$-1.82 $M_{r\theta}$-0.84 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.70 Best double couple: NP1:ϕ_s229.00000°,δ48.00000°,λ138.00000°. NP2:ϕ_s350.00000°,δ60.00000°,λ50.00000°. Principal axes: T 2.1900,Plg55.0000°,Azm207.0000°; N 0.0000,Plg34.0000°,Azm13.0000° ; P -2.1800,Plg7.0000°,Azm107.0000° $M_0$2.20000×10^{15}

(162) South Island

ISC III 20 00 33 54.9–1.0 44.35S–.03 169.94E–.03 15–7 4.0b 59 0-153
IDC III 20 00 33 53.3–1.4 44.35S 169.83E 0 4.1,4.0b **¶16339548**
ISCJB III 20 00 33 53.9–.98 44.32S–.03 169.89E–.05 5–8 3.9b,4.0b
NEIC III 20 00 33 54.6 44.34S 169.92E 5 4.3L,4.0b
WEL III 20 00 33 54.6–.08 44.35S 169.94E 5 4.4L,4.0b
ISC Event type fe.
IDC Error ellipse: s-maj=43.8km s-min=10.9km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.0km az=40.2.
NEIC Event type fe. Felt [IV] at Twizel. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.

(162) South Island

ISC III 20 00 34 58.3–.85 44.31S–.02 169.96E–.02 14–6 3.7b 50 0-153
IDC III 20 00 34 58.2–1.4 44.11S 169.72E 0 4.1,3.9 **¶16339549**
NEIC III 20 00 34 58.6 44.33S 169.94E 5 4.2L,3.9
WEL III 20 00 34 58.4–.09 44.32S 169.92E 5 4.2L,3.9
ISCJB III 20 00 34 58.6–.68 44.33S–.03 169.93E–.04 13–5 3.6b,3.9
ISC Event type fe.
NEIC Event type fe. Felt at Twizel. After WEL.
WEL Event type fe. Felt in the Canterbury region, maximum reported intensity MM 4.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 20 01 01 05.9–.99 39.31N–.08 142.50E–.08 27 4.2b 35 1-145
NIED III 20 01 01 00 39.30N 142.60E 26 3.9W **¶16479608**
ISCJB III 20 01 01 03.0–.68 39.32N–.06 142.73E–.08 27 4.0b
JMA III 20 01 01 04.4–.10 39.26N 142.60E 24–1 3.9
IDC III 20 01 01 06.9–.84 39.84N 141.73E 0 4.0,3.9
NEIC III 20 01 01 12.3–1.0 39.75N 141.71E 38–9 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ4.00000°,λ111.00000°. NP2:ϕ_s18.00000°,δ86.00000°,λ89.00000°. $M_0$8.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=8.1km az=19.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=17.4km az=96.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=124.0.

(228) Near east coast of eastern Honshu

ISC III 20 01 05 28.7–.91 39.28N–.04 142.31E–.04 30–5 4.5b 172 1-145
NIED III 20 01 05 00 39.30N 142.30E 47 4.6W **¶602443746**
NEIC III 20 01 05 27.5–2.0 39.27N 142.19E 20–12 4.6b
ISCJB III 20 01 05 29.3–.54 39.29N–.03 142.30E–.04 48–4 4.4b
JMA III 20 01 05 30.5–.10 39.29N 142.24E 43–1 4.2
IDC III 20 01 05 32.2–2.1 39.28N 142.21E 58–19 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ20.00000°,λ69.00000°. NP2:ϕ_s21.00000°,δ71.00000°,λ98.00000°. $M_0$1.04000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=124.0. Recorded [3 JMA] in Iwate.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=37.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=12.4km az=99.0.

(228) Near east coast of eastern Honshu

ISC III 20 01 09 43.1–.36 39.19N–.03 142.63E–.03 25–2 5.3b,4.9s 1015 1-155
NIED III 20 01 09 00 39.20N 142.60E 23 5.0W,4.9s **¶16339553**
BJI III 20 01 09 41.8 39.13N 142.54E 33 5.3b,5.2b
JMA III 20 01 09 41.6–.20 39.19N 142.64E 19–1 5.2,5.2b
GCMT III 20 01 09 43.8–.20 39.32N 142.66E 34–0 5.1W,5.2b
NEIC III 20 01 09 43.8–1.1 39.14N 142.40E 28–7 5.2b,5.2b
MOS III 20 01 09 43.0–.93 39.28N 142.52E 33 5.6b,4.7s
ISCJB III 20 01 09 44.3–.36 39.16N–.02 142.50E–.02 43–3 5.2b,4.8s
IDC III 20 01 09 44.4–3.5 39.15N 142.55E 32–25 4.9,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ18.00000°,λ41.00000°. NP2:ϕ_s11.00000°,δ78.00000°,λ104.00000°. $M_0$3.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c67; s95,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.16 $M_{\theta\theta}$-0.04±.10; $M_{\phi\phi}$-3.34±.10; $M_{r\theta}$0.91±.12; $M_{\theta\phi}$0.38±.07; $M_{\phi r}$3.35±.13; Best double couple: NP1:ϕ_s8.00000°,δ68.00000°,λ101.00000°. NP2:ϕ_s161.00000°,δ24.00000°,λ64.00000°. Principal axes: T 4.9580,Plg65.0000°,Azm297.0000°; N -0.2380,Plg10.0000°,Azm184.0000° ; P -4.7250,Plg22.0000°,Azm90.0000° $M_0$4.84200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=139.0. Recorded [3 JMA] in Aomori and Iwate.
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=100.3.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=141.2.
IDC Error ellipse: s-maj=11.8km s-min=8.8km az=100.0.

(229) Off east coast of Honshu

ISC III 20 01 18 54.2–.54 38.89N–.06 144.14E–.06 23 4.5b 85 2-117
NIED III 20 01 18 00 39.00N 144.00E 5 4.3W **¶602678416**
IDC III 20 01 18 50.1–.57 38.72N 144.23E 0 4.4,4.3
ISCJB III 20 01 18 52.1–.33 38.80N–.04 144.12E–.04 23 4.3b,4.3
NEIC III 20 01 18 53.4–1.5 38.71N 144.20E 22–11 4.6b,4.3
JMA III 20 01 18 53.8–.40 38.98N 144.02E 25 4.4,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ37.00000°,λ-94.00000°. NP2:ϕ_s195.00000°,δ53.00000°,λ-87.00000°. $M_0$3.18000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=12.3km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=158.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=133.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.

(277) Jawa

ISC III 20 01 20 15.0–.69 7.72S–.04 106.92E–.03 58–6 4.8b,4.6s 266 0-156
DJA III 20 01 20 13.6–.20 8S–2.0 107E–2.0 10 5.8b,5.4 **¶16339555**
ISCJB III 20 01 20 14.5–.38 7.69S–.04 106.92E–.03 69–3 4.7b,5.4
NEIC III 20 01 20 16.1–.65 7.47S 106.97E 70–5 4.8b,5.4
BJI III 20 01 20 16.2 7.60S 106.90E 73 5.1b,5.0s
IDC III 20 01 20 20.9–1.1 7.32S 107.05E 110–9 4.6,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.1km az=28.5.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.6km az=214.0. Felt [III] at Bogor, Pangandaran and Pelabuhanratu. Also felt at Bandung.
IDC Error ellipse: s-maj=14.4km s-min=8.6km az=56.0.

(228) Near east coast of eastern Honshu

ISC III 20 01 24 43.2–.36 37.31N–.03 141.84E–.03 32–2 4.9b,4.5s 568 1-152
NIED III 20 01 24 00 37.30N 141.80E 41 4.9W,4.5s **¶16339557**
IDC III 20 01 24 38.5–.39 37.34N 141.82E 0 4.9,4.8L
BJI III 20 01 24 39.9 37.39N 142.06E 34 5.1b,4.8s
ISCJB III 20 01 24 41.9–.80 37.31N–.02 141.77E–.02 32–5 4.9b,4.4s
NEIC III 20 01 24 42.9–1.0 37.30N 141.71E 28–7 5.0b,4.4s
GCMT III 20 01 24 42.9–.40 37.45N 141.84E 24–4 5.0W,4.4s
MOS III 20 01 24 42.5–.95 37.43N 141.75E 33 5.2b,4.0s
JMA III 20 01 24 43.5–.20 37.31N 141.78E 38–3 4.8,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ14.00000°,λ-139.00000°. NP2:ϕ_s93.00000°,δ81.00000°,λ-80.00000°. $M_0$2.41000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=9.1km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=152.6.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.2km az=133.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c23; s63,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.85±.23 $M_{\theta\theta}$0.83±.15; $M_{\phi\phi}$0.01±.14; $M_{r\theta}$-3.38±.73; $M_{\theta\phi}$0.68±.10; $M_{\phi r}$0.49±.23; Best double couple: NP1:ϕ_s96.00000°,δ84.00000°,λ-78.00000°. NP2:ϕ_s213.00000°,δ14.00000°,λ-152.00000°. Principal axes: T 3.4910,Plg37.0000°,Azm175.0000°; N 0.1770,Plg12.0000°,Azm274.0000° ; P -3.6680,Plg50.0000°,Azm19.0000° $M_0$3.57900×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.2km az=104.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC III 20 01 30 38.9–1.4 37.14N–.07 141.2E–.10 35 3.9b 15 0-74
IDC III 20 01 30 33.3–2.7 37.32N 141.49E 0 4.6,4.6s **¶602443741**
JMA III 20 01 30 42.3 37.08N 140.79E 6–1 3.7,4.6s
ISC Event type ke.
IDC Error ellipse: s-maj=64.2km s-min=23.8km az=165.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ85.00000°,λ45.00000°. NP2:ϕ_s176.00000°,δ45.00000°,λ173.00000°. Principal axes: T Plg34.0000°,Azm144.0000°; N Plg45.0000°,Azm276.0000°; P Plg26.0000° ,Azm35.0000°

(228) Near east coast of eastern Honshu

ISC III 20 01 30 45.5–.38 36.97N–.03 141.21E–.03 27–2 5.5b,5.0s 1626 0-162
NIED III 20 01 30 00 36.90N 141.30E 14 5.3W,5.0s **¶602443744**
IDC III 20 01 30 41.7–.35 36.96N 141.18E 0 5.3,5.3b
BJI III 20 01 30 41.7 36.88N 141.42E 29 5.3b,5.3s
MOS III 20 01 30 44.6–1.1 37.03N 141.18E 33 5.7b,4.9s
NEIC III 20 01 30 45.1–.54 36.95N 141.01E 22–3 5.5b,4.9s
GCMT III 20 01 30 45.2–.10 36.98N 141.20E 18–0 5.4W,4.9s
ISCJB III 20 01 30 45.8–.36 36.96N–.02 141.05E–.02 36–3 5.4b,5.0s
JMA III 20 01 30 45.5–.10 36.94N 141.18E 29–1 5.5,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ47.00000°,λ-122.00000°. NP2:ϕ_s69.00000°,δ52.00000°,λ-60.00000°. $M_0$9.64000×10^{16}
IDC Error ellipse: s-maj=11.0km s-min=8.7km az=100.0.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=103.3.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=142.0. Recorded [4 JMA] in Fukushima, Ibaraki and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c150; s109,c217; Duration: 1^{s}2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20±.03 $M_{\theta\theta}$0.61±.02; $M_{\phi\phi}$0.59±.02; $M_{r\theta}$-0.37±.04; $M_{\theta\phi}$0.82±.01; $M_{\phi r}$0.56±.04; Best double couple: NP1:ϕ_s201.00000°,δ54.00000°,λ-123.00000°. NP2:ϕ_s69.00000°,δ48.00000°,λ-53.00000°. Principal axes: T 1.4310,Plg3.0000°,Azm314.0000°; N 0.1050,Plg26.0000°,Azm222.0000° ; P -1.5310,Plg63.0000°,Azm50.0000° $M_0$1.48100×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=147.2.
JMA Event type fe.

(229) Off east coast of Honshu

ISC III 20 01 38 34.4–.95 37.77N–.06 142.17E–.07 30 4.2b 31 1-62
IDC III 20 01 38 29.1–1.6 37.85N 142.61E 0 4.0,4.0 **¶16479611**
NEIC III 20 01 38 31.5–4.3 37.78N 142.58E 19–27 4.4b,4.0
ISCJB III 20 01 38 32.5–.61 37.70N–.04 142.27E–.06 30 4.1b,4.0
JMA III 20 01 38 35.0–.20 37.74N 142.03E 28–5 4.5,4.0
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=21.3km az=68.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=10.1km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.1km az=0.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 20 01 59 55.6–.20 38.73N 142.19E 36–3 3.6 ¶602678664
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 02 11 28.8–1.5 37.76N–.04 141.63E–.09 46–13 3.9b 35 1-90
NIED III 20 02 11 00 37.80N 141.60E 56 4.1W **¶16462016**
ISCJB III 20 02 11 28.0–.96 37.73N–.04 141.65E–.10 54–7 3.9b
JMA III 20 02 11 29.0–.10 37.78N 141.58E 48–2 4.1
IDC III 20 02 11 31.6–2.2 37.63N 141.54E 75–20 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ24.00000°,λ39.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ109.00000°. $M_0$1.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=6.2km az=7.8.
JMA Event type fe.
IDC Error ellipse: s-maj=20.8km s-min=12.3km az=80.0.

(228) Near east coast of eastern Honshu

ISC III 20 03 04 55.6–1.2 36.76N–.06 140.60E–.05 8–8 3.9b 36 0-153
NIED III 20 03 04 00 36.70N 140.60E 5 3.8W **¶602678198**
IDC III 20 03 04 54.6–.66 36.74N 140.63E 0 3.9,3.8
ISCJB III 20 03 04 55.4–.64 36.70N–.04 140.66E–.07 17–4 3.9b,3.8s
JMA III 20 03 04 56.5 36.72N 140.63E 5–1 3.6,3.8s
NEIC III 20 03 04 59.3–4.1 36.72N 140.60E 32–29 4.3b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ23.00000°,λ-145.00000°. NP2:ϕ_s182.00000°,δ77.00000°,λ-71.00000°. $M_0$5.25000×10^{14}
IDC Error ellipse: s-maj=16.1km s-min=12.8km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.8km az=28.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s123.00000°,δ69.00000°,λ-116.00000°. NP2:ϕ_s356.00000°,δ33.00000°,λ-41.00000°. Principal axes: T Plg20.0000°,Azm232.0000°; N Plg24.0000°,Azm133.0000°; P Plg58.0000° ,Azm357.0000°
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.8km az=80.0.

(228) Near east coast of eastern Honshu

ISC III 20 03 38 30.7–.52 35.08N–.04 140.68E–.05 21–3 4.1b 47 0-146
NIED III 20 03 38 00 35.00N 140.90E 23 3.8W **¶16479623**

IDC III 20 03 38 27.6–.65 35.05N 140.61E 0 4.0,3.9
JMA III 20 03 38 30.8–.10 35.15N 140.72E 29–3 3.7,3.9
ISCJB III 20 03 38 30.3–.54 35.06N–.03 140.71E–.06 33–3 4.0b,3.9
NEIC III 20 03 38 31.3–1.9 35.03N 140.55E 24–14 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ17.00000°,λ117.00000°. NP2:ϕ_s45.00000°,δ75.00000°,λ82.00000°. $M_0$6.52000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=13.5km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.8km az=171.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.2km az=67.0. Recorded [1 JMA] in Chiba.

(228) Near east coast of eastern Honshu

ISC III 20 03 53 24.0–1.3 36.7N–.20 141.5E–.10 10 3.6b 6 1-57
ISCJB III 20 03 53 21.8–1.2 36.6N–.20 141.7E–.10 10 3.5b **¶602678086**
IDC III 20 03 53 22.4–1.3 36.62N 141.68E 0 3.8,3.6
JMA III 20 03 53 36.2 36.72N 140.62E 5–1 2.1,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=26.1km s-min=14.7km az=160.8.
IDC Error ellipse: s-maj=42.5km s-min=24.5km az=117.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 20 04 02 39.1–.56 39.11N–.05 142.37E–.07 27 4.1b 50 1-88
NIED III 20 04 02 00 39.10N 142.40E 41 4.0W **¶16479628**
ISCJB III 20 04 02 37.4–.39 39.10N–.05 142.47E–.05 27 4.0b
JMA III 20 04 02 39.2–.10 39.14N 142.38E 30–1 4.0
IDC III 20 04 02 39.5–.76 39.10N 142.39E 29–5 3.9,3.9
NEIC III 20 04 02 40.4–1.3 39.06N 142.32E 39–11 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ26.00000°,λ-150.00000°. NP2:ϕ_s168.00000°,δ78.00000°,λ-67.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.3km az=164.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.6km s-min=13.7km az=103.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.6km az=158.0.

(228) Near east coast of eastern Honshu

ISC III 20 04 17 40.0–2.0 36.72N–.05 141.61E–.08 23–13 3.5b 25 1-83
NIED III 20 04 17 00 36.80N 141.30E 38 3.8W **¶17197380**
IDC III 20 04 17 35.7–1.3 36.72N 141.82E 0 3.9,3.9
ISCJB III 20 04 17 40.3–1.4 36.69N–.04 141.56E–.06 33–9 3.6b,3.9
JMA III 20 04 17 43.1–.10 36.75N 141.34E 49–1 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ35.00000°,λ2.00000°. NP2:ϕ_s55.00000°,δ89.00000°,λ125.00000°. $M_0$6.56000×10^{14}
IDC Error ellipse: s-maj=36.6km s-min=20.6km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.1km az=5.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 04 42 31.5–1.7 39.44N–.04 142.79E–.06 1–10 4.5b,3.8s 139 1-149
NIED III 20 04 42 00 39.50N 142.80E 8 4.2W,3.8s **¶16339566**
IDC III 20 04 42 31.3–.53 39.44N 142.73E 0 4.4,4.4
JMA III 20 04 42 32.7–.20 39.47N 142.78E 18–2 4.2,4.4
ISCJB III 20 04 42 33.1–.23 39.38N–.03 142.75E–.03 22 4.4b,3.8s
NEIC III 20 04 42 35.4–1.6 39.43N 142.67E 25–11 4.6b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ51.00000°,λ-159.00000°. NP2:ϕ_s81.00000°,δ74.00000°,λ-41.00000°. $M_0$2.58000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=12.4km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=166.7.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.8km az=139.0.

(228) Near east coast of eastern Honshu

ISC III 20 05 00 00.2–3.5 36.97N–.04 141.24E–.06 15–22 3.9b 43 0-147
IDC III 20 04 59 58.2–.72 37.05N 141.25E 0 4.0,3.8 **¶600558600**
ISCJB III 20 04 59 59.3–.99 36.94N–.04 141.35E–.06 23–6 4.0b,3.5s
NIED III 20 05 00 00 36.90N 141.20E 14 3.9W,3.5s
NEIC III 20 05 00 01.3–2.5 37.05N 141.22E 21–17 4.4b,3.5s
JMA III 20 05 00 01.7–.10 36.92N 141.16E 31–1 4.0,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=16.6km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.2km az=25.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ23.00000°,λ-140.00000°. NP2:ϕ_s57.00000°,δ75.00000°,λ-72.00000°. $M_0$7.89000×10^{14}
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.5km az=130.0.
JMA Event type fe.

(227) Eastern Honshu

ISC III 20 05 19 59.2–.64 37.06N–.03 140.66E–.03 14–3 4.6b,3.7s 231 0-147
NIED III 20 05 19 00 37.10N 140.90E 5 4.4W,3.7s **¶602443748**
JMA III 20 05 19 58.0 37.08N 140.79E 7–1 4.7,3.7s
ISCJB III 20 05 19 59.4–.51 37.05N–.02 140.74E–.04 23–3 4.5b,3.7s
MOS III 20 05 20 01.4–1.1 37.02N 140.76E 42 4.8b,3.7s
IDC III 20 05 20 03.2–1.9 37.08N 140.67E 42–18 4.3,4.2
NEIC III 20 05 20 05.0–.50 37.05N 140.62E 58–4 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ30.00000°,λ-112.00000°. NP2:ϕ_s238.00000°,δ63.00000°,λ-78.00000°. $M_0$4.90000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.6km az=16.4.
MOS Error ellipse: s-maj=8.1km s-min=5.2km az=98.4.
IDC Error ellipse: s-maj=14.0km s-min=10.0km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=125.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC III 20 05 23 58.3–.57 38.38N–.05 142.09E–.07 41 4.1b 48 1-146
NIED III 20 05 23 00 38.40N 142.10E 50 4.1W **¶16462019**
IDC III 20 05 23 52.3–.64 38.38N 142.08E 0 4.2,4.0
ISCJB III 20 05 23 56.1–.39 38.32N–.03 142.23E–.05 41 4.0b,4.0
JMA III 20 05 23 58.2–.10 38.42N 142.11E 43–2 4.2,4.0
NEIC III 20 05 23 58.5–.53 38.37N 142.03E 44–5 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ41.00000°,λ23.00000°. NP2:ϕ_s104.00000°,δ75.00000°,λ129.00000°. $M_0$1.34000×10^{15}
IDC Error ellipse: s-maj=20.3km s-min=13.8km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=28.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.1km az=116.0.

(228) Near east coast of eastern Honshu

JMA III 20 05 25 45.2–.10 38.76N 142.31E 24–2 3.9 ¶602677940
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 05 34 22.9–3.6 38.73N–.08 142.4E–.10 29–22 3.6b 21 1-59
IDC III 20 05 34 16.3–2.5 38.86N 142.94E 0 3.8,3.7 **¶17197398**
ISCJB III 20 05 34 23.0–1.5 38.72N–.05 142.4E–.10 49–11 3.6b,3.7
JMA III 20 05 34 23.1–.10 38.71N 142.32E 31–2 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.8km s-min=25.9km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=8.8km az=9.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 05 55 29.6–.26 37.72N–.03 141.60E–.03 52–1 5.3b,5.2s 1369 1-155
NIED III 20 05 55 00 37.70N 141.70E 50 5.5W,5.2s **¶602443754**
MOS III 20 05 55 25.0–1.1 37.66N 141.59E 29 5.7b,5.1s
BJI III 20 05 55 26.0 37.58N 141.74E 47 5.3b,5.3s
JMA III 20 05 55 28.3–.10 37.66N 141.65E 42–2 5.4,5.3s
ISCJB III 20 05 55 29.7–.26 37.70N–.02 141.46E–.02 59–2 5.3b,5.1s
IDC III 20 05 55 29.4–.34 37.67N 141.52E 49–3 5.0,4.9
NEIC III 20 05 55 30.9–.48 37.72N 141.36E 57–4 5.4b,4.9
GCMT III 20 05 55 30.9–.10 37.73N 141.67E 49–0 5.6W,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ18.00000°,λ90.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ90.00000°. $M_0$2.31000×10^{17}
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=97.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=146.2.
IDC Error ellipse: s-maj=10.1km s-min=6.9km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.5km az=139.0. Recorded [3 JMA] in Fukushima and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s108,c212; s118,c245; Duration: 1ŝ5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.16±.04 $M_{\theta\theta}$-0.38±.03; $M_{\phi\phi}$-1.78±.03; $M_{r\theta}$0.64±.03; $M_{\theta\phi}$-0.57±.02; $M_{\phi r}$1.62±.03; Best double couple: NP1:ϕ_s21.00000°,δ65.00000°,λ91.00000°. NP2:ϕ_s199.00000°,δ25.00000°,λ88.00000°. Principal axes: T 2.7940,Plg70.0000°,Azm292.0000°; N -0.1760,Plg1.0000°,Azm200.0000°; P -2.6190,Plg20.0000°,Azm110.0000° $M_0$2.70600×10^{17}

(228) Near east coast of eastern Honshu

ISC III 20 05 58 04.5–.30 35.35N–.04 141.09E–.04 24–1 5.2b,4.9s 440 0-155
NIED III 20 05 58 00 35.40N 141.20E 26 5.1W,4.9s **¶16339569**
BJI III 20 05 58 01.3 35.36N 141.11E 20 5.1b,5.1s
JMA III 20 05 58 03.7–.10 35.44N 141.22E 33–2 4.4,5.1s
MOS III 20 05 58 03.1–1.1 35.38N 141.18E 25 5.4b,5.0s
IDC III 20 05 58 04.0–2.6 35.36N 141.06E 20–16 4.8,4.7b
ISCJB III 20 05 58 04.2–.59 35.32N–.03 141.03E–.03 30–4 5.1b,4.9s
NEIC III 20 05 58 05.1–.49 35.28N 140.99E 27–3 5.2b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ13.00000°,λ-154.00000°. NP2:ϕ_s241.00000°,δ84.00000°,λ-78.00000°. $M_0$5.45000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.7km az=105.5.
IDC Error ellipse: s-maj=13.3km s-min=9.1km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=144.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.4km az=129.0.

(229) Off east coast of Honshu

ISC III 20 06 16 38.7–.66 37.31N–.05 142.23E–.07 24 3.8b 37 1-146
NIED III 20 06 16 00 37.30N 142.10E 32 4.1W **¶602677870**
IDC III 20 06 16 34.9–.74 37.27N 142.29E 0 4.1L,3.9
ISCJB III 20 06 16 36.8–.50 37.30N–.03 142.26E–.05 24 3.8b,3.9
JMA III 20 06 16 38.6–.20 37.33N 142.06E 22–3 4.0,3.9
NEIC III 20 06 16 40.1–.76 37.25N 142.27E 36–7 4.6b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s274.00000°,δ39.00000°,λ-117.00000°. NP2:ϕ_s127.00000°,δ56.00000°,λ-70.00000°. $M_0$1.45000×10^{15}
IDC Error ellipse: s-maj=20.1km s-min=16.3km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.6km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=5.9km az=119.0.

(228) Near east coast of eastern Honshu

ISC III 20 06 51 29.9–2.0 36.48N–.07 141.21E–.08 29–13 3.4b 20 1-78
IDC III 20 06 51 25.5–1.4 36.37N 141.41E 0 3.8L,3.6 **¶17197415**
ISCJB III 20 06 51 30.5–1.2 36.49N–.06 141.17E–.09 46–9 3.3b,3.6
JMA III 20 06 51 32.1–.10 36.55N 141.04E 51–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=29.3km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=7.4km az=35.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 20 07 22 57.8–.61 39.06N–.05 142.54E–.08 27 4.4b 57 1-151
NIED III 20 07 22 00 39.10N 142.60E 5 4.4W **¶16479677**
IDC III 20 07 22 53.2–.77 39.02N 142.63E 0 4.3,4.2
JMA III 20 07 22 54.6–.10 39.10N 142.62E 24–1 4.5,4.2
ISCJB III 20 07 22 55.6–.41 39.03N–.03 142.59E–.05 27 4.3b,4.2
NEIC III 20 07 22 59.5–.80 39.01N 142.63E 45–6 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ40.00000°,λ-78.00000°. NP2:ϕ_s303.00000°,δ51.00000°,λ-100.00000°. $M_0$4.09000×10^{15}
IDC Error ellipse: s-maj=21.6km s-min=14.8km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.9km az=13.3.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.6km az=113.0.

(159) North Island

ISC III 20 07 30 09.7–1.4 37.65S–.05 176.51E–.05 217–7 4.2b 268 0-150
ISCJB III 20 07 30 11.5–.41 37.72S–.02 176.41E–.05 209–3 4.2b **¶16341171**
WEL III 20 07 30 12.0–.22 37.51S 176.60E 200–2 5.0L
IDC III 20 07 30 11.5–.92 38.01S 176.77E 201–11 4.5,4.0
NEIC III 20 07 30 12.9 37.52S 176.58E 190 5.0b,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=178.6.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.2km az=90.0. Felt from Bay of Plenty to Waikato, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=42.5km s-min=21.1km az=133.0.
NEIC Event type fe. Felt [IV] at Tauranga and [III] at Hamilton and Opotiki. After WEL.

(228) Near east coast of eastern Honshu

ISC III 20 07 56 29.4–.38 36.22N–.04 141.89E–.04 29–2 5.2b,5.2s 979 1-152
NIED III 20 07 56 00 36.20N 142.00E 17 5.1W,5.2s **¶602677328**
IDC III 20 07 56 25.1–.36 36.18N 141.91E 0 5.1,5.1s
JMA III 20 07 56 27.2–.20 36.21N 141.99E 57 5.2,5.1s
BJI III 20 07 56 28.6 36.10N 141.47E 19 5.6b,5.4s
MOS III 20 07 56 28.2–1.0 36.20N 141.89E 33 5.5b,5.1s
ISCJB III 20 07 56 28.3–.85 36.19N–.02 141.81E–.02 29–5 5.2s,5.1b
NEIC III 20 07 56 30.5–1.2 36.21N 141.78E 32–8 5.2b,5.1b
GCMT III 20 07 56 30.5–.40 36.43N 142.36E 33–1 5.2W,5.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ18.00000°,λ116.00000°. NP2:ϕ_s12.00000°,δ74.00000°,λ82.00000°. $M_0$4.68000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=113.6.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=163.1.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=138.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s62,c86; Duration: 1ŝ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.46±.07 $M_{\theta\theta}$-0.32±.05; $M_{\phi\phi}$-0.14±.05; $M_{r\theta}$-0.04±.06; $M_{\theta\phi}$-0.71±.03; $M_{\phi r}$0.41±.06; Best double couple: NP1:ϕ_s14.00000°,δ68.00000°,λ42.00000°. NP2:ϕ_s265.00000°,δ51.00000°,λ151.00000°. Principal axes: T 0.8320,Plg45.0000°,Azm236.0000°; N 0.1610,Plg43.0000°,Azm37.0000°; P -0.9930,Plg10.0000°,Azm136.0000° $M_0$0.91300×10^{17}

(243) Taiwan region

ISC III 20 08 00 51.6–.40 22.43N–.02 121.48E–.02 26–2 5.4b,5.2s 879 0-170
NIED III 20 08 00 00 22.40N 121.30E 44 5.5W,5.2s **¶16339573**
JMA III 20 08 00 48.6–.10 22.39N 121.29E 51–2 5.6,5.2s
NEIC III 20 08 00 49.1–.94 22.32N 121.45E 10–5 5.4b,5.2s
ISCJB III 20 08 00 49.3–.32 22.38N–.01 121.54E–.01 18–2 5.3b,5.2s
BJI III 20 08 00 49.0 22.40N 121.40E 30 5.5b,5.3s
MOS III 20 08 00 51.3–1.1 22.42N 121.39E 33 5.7b,5.0s
TAP III 20 08 00 51.2 22.44N 121.38E 27–0 5.8L,5.0s
IDC III 20 08 00 52.9–1.3 22.29N 121.56E 38–10 5.2,5.0
GCMT III 20 08 00 52.8–.20 22.44N 121.34E 27–0 5.4W,5.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ32.00000°,λ42.00000°. NP2:ϕ_s221.00000°,δ69.00000°,λ115.00000°. $M_0$1.91000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=100.0. Felt [III] at Kaohsiung and [II] at Tainan. Also felt at Changhwa, Fengshan, Hengchun, Puli, Taipei and Taitung. Felt in Hong Kong. Recorded [4 TAP] in Taitung; [3 TAP] in Chiayi, Kaohsiung, Tainan and Yunlin; [2 TAP] in Changhua, Hualien, Nantou and Pingtung; [1 TAP] in Miaoli, Penghu and Taichung, Taiwan.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=26.3.
MOS Error ellipse: s-maj=14.0km s-min=6.9km az=69.4.
TAP B.
IDC Error ellipse: s-maj=9.9km s-min=7.5km az=69.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c112; s110,c216; Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.04 $M_{\theta\theta}$0.65±.02; $M_{\phi\phi}$-1.33±.03; $M_{r\theta}$-0.86±.06; $M_{\theta\phi}$-0.85±.02; $M_{\phi r}$-0.23±.05; Best double couple: NP1:ϕ_s237.00000°

,δ72.00000°,λ139.00000°. NP2:ϕ_s342.00000°,δ52.00000°,λ23.00000°. Principal axes:
T 1.6000,Plg41.0000°,Azm192.0000°; N 0.1610,Plg46.0000°,Azm38.0000°
; P -1.7600,Plg13.0000°,Azm294.0000° $M_0$1.68000×10^{17}

(228) Near east coast of eastern Honshu

JMA	**III**	**20 08 01 55.2–.10**	**36.65N**	**140.95E**	**49–1**	**4.1**		**¶602677317**
JMA	Event type fe.							

(228) Near east coast of eastern Honshu

JMA	**III**	**20 08 02 36.5–.20**	**39.56N**	**142.68E**	**11–2**	**4.5**		**¶602677316**
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							

(36) Northern California

ISC	**III**	**20 08 17 01.9–.91**	**38.82N–.03**	**122.74W–.05**	**10**		**22**	**0-5**
NEIC	III	20 08 17 01.5	38.79N	122.77W	1	3.5L		**¶16487900**
ISCJB	III	20 08 17 02.9–.53	38.74N–.03	122.70W–.06	10	3.5L		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Santa Rosa. Also felt at Albion, Clearlake, Geyserville, Middletown, Napa, Pittsburg, Sacramento, San Francisco and Vallejo. After NCEDC.
ISCJB Event type fe.

(249) Luzon

ISC	**III**	**20 08 26 11.1–.26**	**19.08N–.02**	**121.31E–.03**	**40–2**	**5.8b,5.6s**	**1635**	**1-176**
MOS	III	20 08 26 08.4–.91	18.93N	121.44E	33	6.0b,5.6s		**¶16339575**
NEIC	III	20 08 26 09.6–.11	18.99N	121.25E	27	6.0W,5.9W		
GCMT	III	20 08 26 10.7–.10	19.16N	120.99E	50–0	6.0W,5.9W		
NEIC	III	20 08 26 11.0–.00	19.01N	121.26E	36	6.0W,5.9W		
ISCJB	III	20 08 26 11.4–.28	19.09N–.01	121.27E–.02	50–2	5.7b,5.6s		
BJI	III	20 08 26 11.7	19.29N	121.19E	32	5.8b,5.7L		
MAN	III	20 08 26 12	19.06N	121.28E	39	6.1s,6.0b		
IDC	III	20 08 26 12.3–1.9	18.98N	121.41E	50–16	5.5s,5.5		
KLM	III	20 08 26 14.3	19.10N	121.35E	79	6.3s,6.1L		
BKK	III	20 08 26 15.5–.70	19N–3.0	121E–3.0	66–6	6.7,6.1b		
NEIC	III	20 08 26 25.3–.00	19.37N	122.20E	37	6.7,6.1b		

ISC Event type fe.
MOS Error ellipse: s-maj=7.1km s-min=4.1km az=108.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=97.0. Felt [V PIVS] at Pagudpud and Pasuquin; [IV PIVS] at Aparri, Paoay and on Calayan Island; [III PIVS] at Camalaniugan, Gonzaga, Manila and Sinait. Felt in much of northern Luzon. Also felt [III PIVS] at Basco, Batan Islands. Felt [III] in Hong Kong and [II] at Shenzhen, China. Also felt [III] at Kaohsiung, Taiwan. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}8.56 $M_{\theta\theta}$-1.54 $M_{\phi\phi}$-7.03 $M_{r\theta}$-1.33 $M_{\theta\phi}$-0.55 $M_{\phi r}$0.12 Best double couple: NP1:ϕ_s358.00000°,δ45.00000°,λ80.00000°. NP2:ϕ_s193.00000°,δ46.00000°,λ100.00000°. Principal axes:
T 8.7300,Plg83.0000°,Azm185.0000°; N -1.6600,Plg7.0000°,Azm6.0000°
; P -7.0800,Plg0.0000°,Azm276.0000° $M_0$8.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c290; s132,c419;Duration: 2$\hat{s}$3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.95±.01 $M_{\theta\theta}$-0.24±.01; $M_{\phi\phi}$-0.71±.01; $M_{r\theta}$-0.15±.01; $M_{\theta\phi}$-0.49±.01; $M_{\phi r}$-0.41±.01; Best double couple: NP1:ϕ_s207.00000°,δ57.00000°,λ84.00000°. NP2:ϕ_s38.00000°,δ33.00000°,λ99.00000°. Principal axes: T 1.0480,Plg77.0000°,Azm98.0000°
; N 0.0650,Plg5.0000°,Azm210.0000°; P -1.1120,Plg12.0000°,Azm301.0000°
$M_0$1.08000×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ62.00000°,λ87.00000°. NP2:ϕ_s32.00000°,δ28.00000°,λ95.00000°. Principal axes:
T 1.1700,Plg72.0000°,Azm111.0000°; N -0.0700,Plg2.0000°,Azm208.0000°
; P -1.1000,Plg17.0000°,Azm299.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=5.8.
MAN Event type fe. INTENSITY V - PASUQUIN & PAGUDPUD ILOCOS NORTE; INTENSITY IV - PAOAY ILOCOS NORTE; CALAYAN ISLAND; APARRI CAGAYAN; INTENSITY III - BASCO BATANES; SINAIT ILOCOS SUR.
IDC Error ellipse: s-maj=9.6km s-min=7.6km az=75.0.
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}9.05 $M_{\theta\theta}$-2.18 $M_{\phi\phi}$-6.86 $M_{r\theta}$-0.95 $M_{\theta\phi}$-3.98 $M_{\phi r}$3.23 Best double couple: NP1:ϕ_s223.00000°,δ39.00000°,λ111.00000°. NP2:ϕ_s16.00000°,δ54.00000°,λ73.00000°. Principal axes:
T 9.9400,Plg75.0000°,Azm236.0000°; N -0.4900,Plg13.0000°,Azm26.0000°
; P -9.4400,Plg7.0000°,Azm118.0000° $M_0$9.70000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 08 27 54.5–.47**	**39.06N–.05**	**142.77E–.05**	**10**	**5.0b**	**112**	**1-159**
NIED	III	20 08 27 00	39.10N	142.90E	26	4.9W		**¶16339578**
IDC	III	20 08 27 52.5–.66	39.12N	142.94E	0	4.9,4.8s		
ISCJB	III	20 08 27 54.0–.28	39.18N–.04	142.87E–.03	10	5.1b,4.9s		
JMA	III	20 08 27 55.3–.20	39.15N	142.92E	22–2	4.9,4.9s		
NEIC	III	20 08 27 59.4–.92	39.25N	142.59E	40–8	4.8b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s25.00000°,δ75.00000°,λ100.00000°. $M_0$2.53000×10^{16}
IDC Error ellipse: s-maj=18.4km s-min=14.5km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=158.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.4km az=123.0.

(229) Off east coast of Honshu

ISC	**III**	**20 08 42 01.4–.54**	**37.21N–.05**	**142.38E–.07**	**9**	**4.2b**	**64**	**1-151**
ISCJB	III	20 08 41 59.1–.42	37.15N–.04	142.46E–.06	9	4.1b		**¶600558781**
IDC	III	20 08 41 59.7–.61	37.15N	142.49E	0	4.2,4.1		
NEIC	III	20 08 42 01.3–2.3	37.19N	142.49E	10–14	4.6b,4.1		
JMA	III	20 08 42 03.4–.30	37.33N	142.09E	14–3	4.4,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.3km az=30.1.
IDC Error ellipse: s-maj=15.9km s-min=13.2km az=98.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.8km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(162) South Island

ISC	**III**	**20 08 47 39.8–.86**	**43.55S–.04**	**172.82E–.04**	**12–5**	**4.3b**	**126**	**0-159**
ISCJB	III	20 08 47 38.5–.50	43.57S–.03	172.86E–.04	14–3	4.3b		**¶16339580**
BJI	III	20 08 47 38.6	43.50S	172.91E	17	4.9b		
IDC	III	20 08 47 38.7–.90	43.47S	172.81E	0	4.5,4.3		
WEL	III	20 08 47 40.8–.08	43.52S	172.70E	12–0	4.9L,4.3		
NEIC	III	20 08 47 40.7	43.52S	172.70E	13	5.1L,4.5W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.8km az=138.3.
IDC Error ellipse: s-maj=30.5km s-min=13.4km az=162.0.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt between Nelson, Otago and Marlborough, maximum reported intensity MM 8.
NEIC Event type fe. Felt [V] in the Christchurch area. Felt in much of Canterbury. After WEL. Moment Tensor Solution. s12 Moment tensor: Scale 10^{15}Nm; M_{rr}2.28 $M_{\theta\theta}$1.53 $M_{\theta\phi}$-3.81 $M_{r\theta}$2.48 $M_{\theta\phi}$-4.00 $M_{\phi r}$-1.51 Best double couple: NP1:ϕ_s66.00000°,δ63.00000°,λ152.00000°. NP2:ϕ_s170.00000°,δ65.00000°,λ30.00000°. Principal axes: T 5.9600,Plg38.0000°
,Azm29.0000°; N 0.0000,Plg52.0000°,Azm206.0000°; P -5.9500,Plg1.0000°,Azm298.0000°
$M_0$6.00000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 09 26 15.4–2.2**	**37.31N–.08**	**141.2E–.20**	**35**	**3.5b**	**11**	**0-46**
IDC	III	20 09 26 01.6–9.3	36.89N	142.56E	0	3.7,3.7s		**¶17197431**
JMA	III	20 09 26 16.6–.10	37.35N	141.10E	29–1	3.1,3.7s		

ISC Event type ke.
IDC Error ellipse: s-maj=164.3km s-min=65.5km az=132.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 09 41 51.9–.49**	**40.30N–.05**	**142.67E–.05**	**12**	**4.2b**	**61**	**1-150**
IDC	III	20 09 41 49.4–.88	40.31N	142.79E	0	4.0,3.9		**¶16447654**
ISCJB	III	20 09 41 50.2–.34	40.35N–.04	142.83E–.05	12	4.2b,3.9		
NEIC	III	20 09 41 55.3–.25	40.37N	142.77E	35	4.4b,3.9		
JMA	III	20 09 41 56.9–.10	40.27N	142.48E	34–2	3.8,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=19.7km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=148.6.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.4km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**20 09 45 27.4–.10**	**39.29N**	**142.34E**	**29–1**	**3.7**		**¶602677143**
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							

(228) Near east coast of eastern Honshu

ISC	**III**	**20 09 49 59.2–.43**	**37.33N–.05**	**141.87E–.05**	**24**	**4.5b**	**158**	**1-152**
NIED	III	20 09 49 00	37.30N	141.90E	8	4.3W		**¶16339582**
IDC	III	20 09 49 54.9–.57	37.27N	141.94E	0	4.2,4.1		
MOS	III	20 09 49 58.6–1.0	37.30N	141.89E	33	4.7b,4.1		
JMA	III	20 09 49 58.1–.20	37.31N	141.86E	36–3	4.3,4.1		
ISCJB	III	20 09 49 58.1–.27	37.38N–.04	141.87E–.03	24	4.4b,4.1		
NEIC	III	20 09 50 00.5–1.8	37.41N	141.81E	29–13	4.6b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ42.00000°,λ-114.00000°. NP2:ϕ_s53.00000°,δ52.00000°,λ-70.00000°. $M_0$2.88000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.3km az=131.0.
MOS Error ellipse: s-maj=8.9km s-min=6.1km az=97.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.1km az=161.6.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=151.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 10 35 52.0–.53**	**35.19N–.03**	**141.20E–.03**	**14–3**	**5.1b,4.8s**	**679**	**1-154**
NIED	III	20 10 35 00	35.20N	141.30E	17	5.0W,4.8s		**¶16339583**
BJI	III	20 10 35 48.6	35.28N	141.22E	11	5.0b,5.0s		
IDC	III	20 10 35 49.8–.40	35.19N	141.23E	0	4.9,4.8		
ISCJB	III	20 10 35 50.2–.74	35.12N–.02	141.11E–.02	11–4	5.0b,4.8s		
NEIC	III	20 10 35 51.4–1.4	35.16N	141.12E	9–9	5.1b,4.8s		
JMA	III	20 10 35 52.5–.10	35.24N	141.30E	27–2	4.9,4.8s		
MOS	III	20 10 35 53.4–1.0	35.18N	141.12E	33	5.2b,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ8.00000°,λ-117.00000°. NP2:ϕ_s195.00000°,δ83.00000°,λ-86.00000°. $M_0$4.04000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=9.8km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=154.3.
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.1km az=128.0.
JMA Event type fe.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=113.5.

(228) Near east coast of eastern Honshu

JMA	**III**	**20 10 47 16.9–.10**	**38.47N**	**141.91E**	**43–1**	**3.7**		**¶602676822**
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							

(228) Near east coast of eastern Honshu

ISC	**III**	**20 10 55 19.0–2.2**	**37.29N–.04**	**141.36E–.08**	**4–12**	**3.4b**	**24**	**0-57**
IDC	III	20 10 55 17.8–2.3	37.30N	141.53E	0	3.6,3.6		**¶17197442**
ISCJB	III	20 10 55 20.4–1.2	37.28N–.03	141.36E–.08	24–6	3.4b,3.6		
JMA	III	20 10 55 23.5–.10	37.31N	141.14E	30–1	3.8,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=52.7km s-min=21.5km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.6km az=177.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**20 10 59 22.8–.10**	**36.89N**	**141.09E**	**49–1**	**4.1**		**¶600558912**
NIED	III	20 10 59 00	36.90N	141.10E	41	4.3W		

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ36.00000°,λ-173.00000°. NP2:ϕ_s10.00000°,δ86.00000°,λ-54.00000°. $M_0$3.67000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**III**	**20 11 00 47.1–.10**	**36.89N**	**141.09E**	**49–1**	**3.7**		**¶600558915**
NIED	III	20 11 00 00	36.90N	141.10E	11	4.2W		

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ27.00000°,λ-136.00000°. NP2:ϕ_s291.00000°,δ71.00000°,λ-70.00000°. $M_0$2.06000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**III**	**20 11 02 50.1–.45**	**38.39N–.05**	**142.06E–.06**	**41**	**4.4b**	**99**	**1-151**
NIED	III	20 11 02 00	38.40N	142.10E	41	4.1W		**¶16447658**
ISCJB	III	20 11 02 47.9–.30	38.37N–.03	142.16E–.05	41	4.5b,3.6s		
NEIC	III	20 11 02 49.4–.27	38.44N	142.15E	35	4.9b,3.6s		
IDC	III	20 11 02 49.9–2.1	38.35N	142.11E	43–19	4.1,4.0		
JMA	III	20 11 02 50.0–.10	38.44N	142.08E	43–2	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ81.00000°. NP2:ϕ_s19.00000°,δ73.00000°,λ93.00000°. $M_0$1.62000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=19.1.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=127.0.
IDC Error ellipse: s-maj=17.1km s-min=11.2km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 11 20 18.7–1.4**	**35.77N–.04**	**140.97E–.08**	**9–7**	**3.4b**	**16**	**0-59**
NIED	III	20 11 20 00	35.80N	140.90E	11	3.7W		**¶17197444**
ISCJB	III	20 11 20 17.5–1.2	35.78N–.05	141.05E–.07	11–6	3.3b		
IDC	III	20 11 20 17.5–1.3	35.70N	140.97E	0	3.5,3.3		
JMA	III	20 11 20 19.4–.10	35.75N	140.92E	9–1	3.6,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ40.00000°,λ-64.00000°. NP2:ϕ_s130.00000°,δ55.00000°,λ-110.00000°. $M_0$4.49000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=8.6km az=157.6.
IDC Error ellipse: s-maj=34.5km s-min=26.1km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 11 32 09.8–.68**	**38.03N–.04**	**141.50E–.07**	**62–5**	**3.9b**	**47**	**1-89**
NIED	III	20 11 32 00	38.00N	141.40E	50	4.0W		**¶17197448**
ISCJB	III	20 11 32 08.9–.69	38.01N–.03	141.48E–.09	71–5	3.8b		
IDC	III	20 11 32 09.9–.60	38.02N	141.40E	63–5	3.9,3.8		
JMA	III	20 11 32 10.3	38.03N	141.44E	62–1	4.2,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ42.00000°,λ115.00000°. NP2:ϕ_s180.00000°,δ53.00000°,λ69.00000°. $M_0$9.58000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.2km az=14.2.
IDC Error ellipse: s-maj=16.3km s-min=10.0km az=98.0.
JMA Event type fe.

(107) Ecuador

ISC	**III**	**20 11 39 46.0–.49**	**0.35S–.02**	**77.90W–.04**	**7**	**4.5b**	**72**	**0-81**
IGQ	III	20 11 39 43	0.36S	77.85W	7–2	4.1b		**¶16341346**
ISCJB	III	20 11 39 45.0–.30	0.35S–.02	77.89W–.03	7	4.3b,3.4s		
IDC	III	20 11 39 45.1–.77	0.38S	77.81W	0	4.0,4.0		
NEIC	III	20 11 39 47.8–.64	0.36S	77.99W	10	4.5b,4.3		

ISC Event type fe.
IGQ Error ellipse: s-maj=1.8km s-min=0.5km az=9.4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.7km az=11.0.
IDC Error ellipse: s-maj=20.8km s-min=14.2km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=16.7km s-min=10.1km az=224.0. Felt in Quijos.

(173) Tonga Islands

ISC	**III**	**20 11 47 38.7–.36**	**18.86S–.05**	**174.83W–.05**	**99–2**	**5.3b**	**1399**	**6-176**
ISCJB	III	20 11 47 35.5–1.1	18.76S–.03	174.87W–.02	77–10	5.3b		**¶16339585**
IDC	III	20 11 47 41.2–3.5	18.81S	174.83W	117–30	5.4,5.1		
BJI	III	20 11 47 42.1	18.67S	174.30W	146	5.3b,5.3b		
MOS	III	20 11 47 42.9–.70	18.75S	174.95W	143	5.1b,5.3b		
NEIC	III	20 11 47 44.2–.80	18.88S	174.87W	146–7	5.2b,5.3b		
GCMT	III	20 11 47 44.2–.20	18.84S	174.45W	139–2	5.3W,5.3b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=156.4.
IDC Error ellipse: s-maj=11.0km s-min=10.5km az=179.0.
MOS Error ellipse: s-maj=9.7km s-min=7.7km az=135.4.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=150.0. Felt at Neiafu.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c60; s105,c161; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.83±.02 $M_{\theta\theta}$0.60±.03; $M_{\phi\phi}$0.22±.03; $M_{r\theta}$0.02±.02; $M_{\theta\phi}$0.53±.03; $M_{\phi r}$-0.53±.02; Best double couple: NP1:ϕ_s31.00000°,δ59.00000°,λ-119.00000°. NP2:ϕ_s258.00000°,δ41.00000°,λ-51.00000°. Principal axes:
T 1.0270,Plg10.0000°,Azm141.0000°; N 0.0480,Plg24.0000°,Azm47.0000°
; P -1.0760,Plg64.0000°,Azm251.0000° $M_0$1.05100×10^{17}

(227) Eastern Honshu

JMA	**III**	**20 12 01 35.7**	**36.54N**	**137.63E**	**0**	**3.1**		
NIED	III	20 12 01 00	36.50N	137.60E	5	4.0W		**¶600558959**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ29.00000°,λ20.00000°. NP2:ϕ_s86.00000°,δ80.00000°,λ117.00000°. $M_0$1.06000×10^{15}

(227) Eastern Honshu

ISC III 20 12 03 46.7–.27 39.38N–.03 141.99E–.03 43–1 5.8b,5.3s 1907 1-162
NIED III 20 12 03 00 39.30N 142.10E 50 5.8W,5.3s ¶602442537
BJI III 20 12 03 42.6 39.21N 142.14E 42 5.6b,5.6s
MOS III 20 12 03 44.7–.95 39.49N 141.87E 33 6.1b,5.4s
NEIC III 20 12 03 46.7–.08 39.35N 141.82E 42 5.9b,5.8W
GCMT III 20 12 03 46.7–.10 39.39N 142.14E 51–0 5.8W,5.8W
NEIC III 20 12 03 47.0–.00 39.41N 142.16E 50 5.8W,5.8W
JMA III 20 12 03 47.5–.10 39.34N 142.05E 48–1 5.9,5.8W
ISCJB III 20 12 03 47.1–.29 39.36N–.02 141.88E–.02 58–2 5.7b,5.4s
IDC III 20 12 03 48.7–1.8 39.34N 141.94E 61–16 5.3s,5.3
NEIC III 20 12 04 10.1–.00 40.53N 141.56E 41 5.3s,5.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ21.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ98.00000°. $M_0$5.34000×10^{17}
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=95.7.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=146.0. Felt [III] at Misawa. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s68 Moment tensor: Scale 10^{17}Nm; M_{rr}4.91 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-4.91 $M_{r\theta}$2.55 $M_{\theta\phi}$-1.98 $M_{\phi r}$4.23 Best double couple: NP1:ϕ_s189.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s28.00000°,δ67.00000°,λ98.00000°. Principal axes: T 6.9300,Plg67.0000°,Azm312.0000°; N 0.5800,Plg7.0000°,Azm205.0000° ; P -7.5100,Plg21.0000°,Azm112.0000° $M_0$7.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c240; s125,c357;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}5.07±.06 $M_{\theta\theta}$-0.25±.04; $M_{\phi\phi}$-4.82±.05; $M_{r\theta}$2.12±.05; $M_{\theta\phi}$-1.02±.04; $M_{\phi r}$3.67±.05; Best double couple: NP1:ϕ_s23.00000° ,δ65.00000°,λ99.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ71.00000°. Principal axes: T 6.7080,Plg68.0000°,Azm312.0000°; N -0.2330,Plg8.0000°,Azm199.0000° ; P -6.4780,Plg20.0000°,Azm106.0000° $M_0$6.59300×10^{17}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}3.24 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-2.65 $M_{r\theta}$1.55 $M_{\theta\phi}$-0.43 $M_{\phi r}$4.55 Best double couple: NP1:ϕ_s17.00000° ,δ74.00000°,λ93.00000°. NP2:ϕ_s188.00000°,δ16.00000°,λ81.00000°. Principal axes: T 5.9300,Plg60.0000°,Azm291.0000°; N -0.5300,Plg2.0000°,Azm196.0000° ; P -5.3900,Plg29.0000°,Azm105.0000° $M_0$5.70000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=154.3.
IDC Error ellipse: s-maj=10.3km s-min=7.7km az=87.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}3.75 $M_{\theta\theta}$0.17 $M_{\phi\phi}$-3.92 $M_{r\theta}$-4.01 $M_{\theta\phi}$-1.65 $M_{\phi r}$2.63 Best double couple: NP1:ϕ_s223.00000° ,δ42.00000°,λ143.00000°. NP2:ϕ_s342.00000°,δ66.00000°,λ54.00000°. Principal axes: T 7.2200,Plg54.0000°,Azm207.0000°; N -2.4300,Plg33.0000°,Azm359.0000° ; P -4.7900,Plg14.0000°,Azm98.0000° $M_0$6.00000×10^{17}

(228) Near east coast of eastern Honshu

JMA III 20 12 11 55.9–.20 38.53N 142.06E 20–2 3.6 ¶602677801
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 12 18 21.9–.92 35.73N–.05 140.86E–.09 12–5 3.4b 14 0-65
IDC III 20 12 18 20.2–1.1 35.63N 140.89E 0 3.6,3.4 ¶602677758
JMA III 20 12 18 21.6–.10 35.76N 140.95E 9–1 3.6,3.4
ISCJB III 20 12 18 21.1–1.1 35.73N–.05 141.0E–.10 16–7 3.3b,3.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 20 12 29 49.6–1.5 36.64N–.06 141.1E–.10 21–4 3.3b 14 0-60
ISCJB III 20 12 29 48.0–2.1 36.61N–.06 141.2E–.10 21–14 3.3b,2.6s ¶602677722
JMA III 20 12 29 49.2–.10 36.64N 141.09E 21–2 3.7,2.6s
IDC III 20 12 30 03.4–7.1 34.67N 136.39E 0 3.4,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=18.5km s-min=8.8km az=14.0.
JMA Event type fe.
IDC Error ellipse: s-maj=294.2km s-min=20.5km az=64.0.

(228) Near east coast of eastern Honshu

ISC III 20 12 39 42.5–2.0 39.04N–.05 142.39E–.07 10–12 3.9b 32 1-88
JMA III 20 12 39 45.2–.10 39.09N 142.39E 30–1 4.1 ¶17197460
IDC III 20 12 39 49.8–2.8 39.03N 142.42E 68–25 3.8,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=14.3km az=101.0.

(228) Near east coast of eastern Honshu

ISC III 20 12 43 30.0–.44 37.39N–.04 141.62E–.04 35–1 4.9b,4.2s 501 1-152
NIED III 20 12 43 00 37.30N 141.60E 44 4.8W,4.2s ¶16339587
BJI III 20 12 43 25.8 37.22N 141.73E 33 5.1b,5.1b
MOS III 20 12 43 30.7–.85 37.60N 141.41E 43 5.2b,5.1b
ISCJB III 20 12 43 30.5–.41 37.37N–.02 141.48E–.03 50–3 4.9b,4.3s
JMA III 20 12 43 30.4–.10 37.33N 141.56E 46–2 4.8,4.3s
IDC III 20 12 43 31.0–1.4 37.30N 141.54E 44–13 4.8,4.6
NEIC III 20 12 43 32.9–.49 37.36N 141.45E 58–4 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ15.00000°,λ93.00000°. NP2:ϕ_s20.00000°,δ75.00000°,λ89.00000°. $M_0$1.51000×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.4km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=135.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=103.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=136.0.

(228) Near east coast of eastern Honshu

ISC III 20 13 07 58.0–.65 37.10N–.05 141.45E–.09 39–4 3.6b 38 1-147
NIED III 20 13 07 00 37.10N 141.30E 41 4.2W ¶600559059
ISCJB III 20 13 07 57.1–.93 37.06N–.04 141.45E–.08 46–8 3.6b
JMA III 20 13 07 58.5–.10 37.11N 141.31E 50–1 4.3
IDC III 20 13 08 00.8–1.9 37.04N 141.39E 66–18 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ34.00000°,λ125.00000°. NP2:ϕ_s247.00000°,δ62.00000°,λ69.00000°. $M_0$1.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.6km az=8.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.1km s-min=11.8km az=88.0.

(103) Colombia

ISC III 20 13 39 58.2–.60 4.81N–.04 76.15W–.04 119–5 4.6b 546 1-156
CASC III 20 13 39 57.1–1.7 5.07N 76.39W 0–18 4.6b ¶16341347
ISCJB III 20 13 39 57.5–.27 4.91N–.03 76.14W–.02 125–2 4.7b
RSNC III 20 13 39 58.8–1.1 4.89N 76.28W 96–9 4.4L
BJI III 20 13 39 59.3 4.90N 76.10W 129 4.4L
NEIC III 20 13 39 59.6–.56 4.88N 76.05W 132–5 4.6b
IDC III 20 13 40 00.4–.98 4.89N 76.06W 137–8 4.6,4.3
ISC Event type fe.
CASC Error ellipse: s-maj=37.0km s-min=16.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=35.7.
RSNC Error ellipse: s-maj=3.7km s-min=5.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.6km az=48.0. Felt [III] at Pereira. Also felt at Armenia, Cali and Manizales.
IDC Error ellipse: s-maj=12.9km s-min=8.6km az=51.0.

(228) Near east coast of eastern Honshu

ISC III 20 14 06 23.0–1.3 38.28N–.06 142.04E–.09 47–13 3.5b 21 1-76
NIED III 20 14 06 00 38.30N 142.10E 20 3.9W ¶17197473
ISCJB III 20 14 06 20.7–1.2 38.28N–.05 142.13E–.10 43–10 3.6b
JMA III 20 14 06 20.6–.20 38.30N 142.12E 41–3 4.2
IDC III 20 14 06 24.3–2.6 38.26N 142.11E 61–24 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s93.00000°,δ29.00000°,λ-39.00000°. NP2:ϕ_s218.00000°,δ72.00000°,λ-113.00000°. $M_0$8.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.5km az=12.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=15.3km az=82.0.

(228) Near east coast of eastern Honshu

ISC III 20 14 19 27.1–1.0 37.83N–.05 142.00E–.08 30 4.2s,3.5b 32 1-71
NIED III 20 14 19 00 37.80N 142.00E 35 3.8W,3.5b ¶602678141
IDC III 20 14 19 23.1–1.1 37.76N 142.08E 0 4.2,4.2s
ISCJB III 20 14 19 25.5–.61 37.82N–.04 142.03E–.06 30 4.2s,3.6b
JMA III 20 14 19 26.7–.20 37.85N 141.96E 34–4 3.9,3.6b
NEIC III 20 14 19 27.9–.75 37.81N 142.03E 35 4.2b,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ42.00000°,λ-58.00000°. NP2:ϕ_s287.00000°,δ56.00000°,λ-115.00000°. $M_0$5.99000×10^{14}
IDC Error ellipse: s-maj=30.8km s-min=17.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.1km az=9.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=9.0km az=114.0.

(228) Near east coast of eastern Honshu

JMA III 20 14 35 47.9–.10 37.16N 141.18E 33–1 3.6 ¶602676658
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 14 48 52.7–.44 35.36N–.03 141.12E–.03 29–2 5.0b,4.9s 571 0-152
NIED III 20 14 48 00 35.40N 141.30E 32 5.1W,4.9s ¶602676611
BJI III 20 14 48 50.0 35.26N 141.26E 39 5.2b,4.9s
JMA III 20 14 48 50.4–.10 35.43N 141.27E 36–2 5.2,4.9s
IDC III 20 14 48 51.0–2.9 35.32N 141.02E 15–17 4.8,4.8
ISCJB III 20 14 48 52.1–.46 35.33N–.02 141.02E–.02 32–3 4.9b,4.8s
MOS III 20 14 48 53.0–1.1 35.52N 141.03E 33 5.1b,4.8s
NEIC III 20 14 48 54.1–.56 35.33N 140.96E 36–5 5.0b,4.8s
GCMT III 20 14 48 54.1–.30 35.39N 141.16E 24 5.1W,4.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ49.00000°,λ-43.00000°. NP2:ϕ_s314.00000°,δ59.00000°,λ-129.00000°. $M_0$5.89000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=9.0km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=149.5.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=118.4.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c50; s88,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.83±.17 $M_{\theta\theta}$-1.94±.12; $M_{\phi\phi}$3.76±.11; $M_{r\theta}$4.41±.17; $M_{\theta\phi}$-1.43±.08; $M_{\phi r}$-0.28±.16; Best double couple: NP1:ϕ_s305.00000°,δ75.00000° ,λ-132.00000°. NP2:ϕ_s198.00000°,δ44.00000°,λ-22.00000°. Principal axes: T 4.5430,Plg19.0000°,Azm65.0000°; N 1.8090,Plg40.0000°,Azm318.0000° ; P -6.3630,Plg44.0000°,Azm173.0000° $M_0$5.45300×10^{16}

(228) Near east coast of eastern Honshu

JMA III 20 14 50 38.9–.20 38.14N 142.38E 30 4.2 ¶602676608
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 20 14 54 46.7–.68 35.34N–.04 141.16E–.05 29–4 4.6b 169 0-152
NIED III 20 14 54 00 35.40N 141.30E 32 4.6W ¶16339592
JMA III 20 14 54 45.0–.10 35.44N 141.27E 33–2 4.7
ISCJB III 20 14 54 47.2–.52 35.28N–.03 141.10E–.04 48–4 4.6b,4.0s
NEIC III 20 14 54 48.7–.65 35.29N 141.10E 46–6 4.8b,4.0s
IDC III 20 14 54 48.1–2.0 35.33N 141.16E 40–18 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ49.00000°,λ-35.00000°. NP2:ϕ_s322.00000°,δ64.00000°,λ-133.00000°. $M_0$9.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=5.0km az=11.9.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.2km az=101.0.
IDC Error ellipse: s-maj=14.1km s-min=10.7km az=90.0.

(229) Off east coast of Honshu

ISC III 20 15 54 15.0–.78 36.14N–.04 142.09E–.04 16–4 4.8b 247 1-152
NIED III 20 15 54 00 36.30N 142.10E 8 4.4W ¶16339772
ISCJB III 20 15 54 12.7–1.2 36.15N–.03 141.99E–.03 8–7 4.7b
IDC III 20 15 54 13.0–.46 36.22N 142.02E 0 4.6,4.6
JMA III 20 15 54 14.4–.40 36.28N 142.06E 24 4.6,4.6
NEIC III 20 15 54 18.3–.12 36.23N 141.88E 35 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ48.00000°,λ60.00000°. NP2:ϕ_s44.00000°,δ50.00000°,λ119.00000°. $M_0$5.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=166.3.
IDC Error ellipse: s-maj=13.5km s-min=10.7km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.6km az=151.0.

(229) Off east coast of Honshu

ISC III 20 16 05 09.4–.51 39.06N–.04 143.29E–.05 23–3 4.8b,4.0s 211 2-88
NIED III 20 16 05 00 39.10N 143.30E 5 4.7W,4.0s ¶16339773
ISCJB III 20 16 05 06.8–1.1 39.04N–.03 143.27E–.03 16–7 4.7b,3.9s
BJI III 20 16 05 07.2 39.13N 143.17E 17 5.0b,4.6b
JMA III 20 16 05 07.4–.30 39.06N 143.32E 22 4.8,4.6b
IDC III 20 16 05 09.4–.54 39.02N 143.28E 23–2 4.4,4.4
NEIC III 20 16 05 09.4–1.3 39.07N 143.18E 22–9 4.9b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ3.00000°,λ-21.00000°. NP2:ϕ_s271.00000°,δ89.00000°,λ-93.00000°. $M_0$1.45000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.7km az=137.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=11.0km az=98.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.2km az=131.0.

(228) Near east coast of eastern Honshu

ISC III 20 16 27 50.2–1.9 36.41N–.07 140.77E–.08 9–9 3.3b 16 0-69
NIED III 20 16 27 00 36.40N 140.80E 8 3.5W ¶17197494
IDC III 20 16 27 48.2–15 36.00N 140.94E 0 3.8,3.7
JMA III 20 16 27 49.8 36.41N 140.81E 13–1 3.9,3.7
ISCJB III 20 16 27 49.4–1.3 36.39N–.05 140.80E–.06 6–5 3.6b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ64.00000°,λ26.00000°. NP2:ϕ_s287.00000°,δ67.00000°,λ151.00000°. $M_0$1.94000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(283) Bali region

ISC III 20 16 29 24.7–.42 8.50S–.05 115.08E–.06 35 4.3b 67 0-151
BJI III 20 16 29 17.0 8.98S 114.52E 10 4.9b,4.4b ¶16341352
NEIC III 20 16 29 23.4–1.6 8.40S 115.02E 24–12 4.3b,4.4b
ISCJB III 20 16 29 23.3–.28 8.36S–.04 115.09E–.03 35 4.3b,4.1s
DJA III 20 16 29 23.8–.20 8S–3.0 115E–2.0 10 5.1b,4.9b
IDC III 20 16 29 24.4–3.6 8.31S 115.06E 33–27 4.3,4.3
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=6.6km az=201.0. Felt [III] at Denpasar and Kuta; [II] at Ubud. Also felt at Singaraja and Tabanan.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=20.9.
IDC Error ellipse: s-maj=22.6km s-min=13.1km az=77.0.

(228) Near east coast of eastern Honshu

ISC III 20 16 57 13.2–.90 39.11N–.06 142.40E–.08 27 3.6b 21 1-63
ISCJB III 20 16 57 11.3–.74 39.10N–.06 142.54E–.07 27 3.5b ¶17197502
JMA III 20 16 57 13.9–.10 39.19N 142.43E 34–1 4.0
IDC III 20 16 57 14.0–.97 39.06N 142.31E 34–7 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=7.4km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=29.1km s-min=16.7km az=94.0.

(122) Near coast of northern Chile

ISC III 20 17 12 25.8–.26 24.82S–.03 70.21W–.05 50–2 5.4b,4.8s 950 0-177
MOS III 20 17 12 24.2–1.1 24.75S 70.12W 42 5.5b,4.6s ¶16339599
ISCJB III 20 17 12 24.7–.31 24.83S–.02 70.10W–.03 54–2 5.4b,4.7s
GUC III 20 17 12 25.0–.58 24.88S 70.21W 49–5 5.3L,4.7s
GCMT III 20 17 12 25.0–.30 24.87S 70.61W 56–2 5.1W,4.7s
NEIC III 20 17 12 25.0 24.87S 70.20W 49 5.4b,5.0W
IDC III 20 17 12 26.3–.31 24.82S 70.04W 53–2 4.9,4.8
BJI III 20 17 12 27.1 24.90S 70.00W 47 5.6s,5.5b
SCB III 20 17 12 46.6–1.1 23.12S 69.25W 98 4.7L,5.5b
SJA III 20 17 12 47.8–5.4 25.82S 68.17W 187–90 3.6L,3.5W
ISC Event type fe.
MOS Error ellipse: s-maj=14.0km s-min=6.8km az=105.7.

ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.2km az=165.4.
GUC Error ellipse: s-maj=1.5km s-min=11.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c45; s66,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.54±.26 $M_{\theta\theta}$0.31±.18; $M_{\phi\phi}$-4.86±.17; $M_{r\theta}$1.21±.13; $M_{\theta\phi}$0.17±.14; $M_{\phi r}$-3.21±.19; Best double couple: NP1:ϕ_s167.00000°,δ63.00000°,λ79.00000°. NP2:ϕ_s10.00000°,δ29.00000°,λ110.00000°. Principal axes: T 5.7570,Plg70.0000°,Azm55.0000°; N 0.1320,Plg10.0000°,Azm172.0000° ; P -5.8970,Plg18.0000°,Azm265.0000° M_o5.82700×10^{16}
NEIC Event type fe. Felt [IV] at Taltal; [III] at Caldera, Chanaral, Copiapo, Diego de Almagro and Tierra Amarilla; [II] at Antofagasta. After GUC. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}2.77 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-2.86 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.32 $M_{\phi r}$-3.29 Best double couple: NP1:ϕ_s177.00000°,δ70.00000°,λ83.00000°. NP2:ϕ_s16.00000°,δ21.00000°,λ108.00000°. Principal axes: T 4.3300,Plg64.0000°,Azm76.0000°; N 0.0500,Plg6.0000°,Azm179.0000° ; P -4.3800,Plg25.0000°,Azm272.0000° M_o4.30000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=9.3km az=75.0.
SCB Event type ke. Error ellipse: s-maj=28.8km s-min=9.7km az=41.0.
SJA Error ellipse: s-maj=35.4km s-min=56.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 17 42 23.2–.73**	**38.90N–.06**	**142.10E–.08**	**51**	**4.1b**	**43**	**1-81**
NIED	III	20 17 42 00	38.90N	141.90E	47	4.0W		**¶602677034**
ISCJB	III	20 17 42 21.9–.55	38.95N–.04	142.14E–.07	51	4.1b		
NEIC	III	20 17 42 24.6–1.1	38.96N	141.95E	58–9	4.4b		
JMA	III	20 17 42 24.7–.10	38.93N	141.91E	51–1	4.0		
IDC	III	20 17 42 26.0–2.7	38.95N	141.99E	69–22	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ19.00000°,λ99.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ87.00000°. M_o1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.2km az=35.1.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=8.1km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.0km s-min=14.0km az=91.0.

(460) Wyoming

ISC	**III**	**20 17 56 19.8–1.2**	**43.69N–.08**	**105.47W–.05**	**0**		**19**	**1-9**
IDC	III	20 17 56 23.1–2.6	43.50N	105.08W	0	3.5,3.4		**¶17197512**
NEIC	III	20 17 56 25.7–1.3	44.14N	105.35W	0	2.8L,3.4		

ISC Event type sm.
IDC Error ellipse: s-maj=65.4km s-min=9.0km az=153.0.
NEIC Event type fm. Error ellipse: s-maj=22.1km s-min=14.2km az=163.0. 22 km [13 miles] SE of Gillette. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 18 18 32.8–1.4**	**38.90N–.06**	**142.1E–.10**	**35**	**3.4b**	**15**	**1-63**
NIED	III	20 18 18 00	38.90N	142.10E	50	3.7W		**¶17197523**
IDC	III	20 18 18 24.4–2.6	39.11N	142.78E	0	3.5,3.3		
ISCJB	III	20 18 18 30.9–1.1	38.87N–.06	142.3E–.10	35	3.4b,3.3		
JMA	III	20 18 18 33.3–.10	38.90N	142.06E	40–1	3.6,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ51.00000°,λ-179.00000°. NP2:ϕ_s68.00000°,δ90.00000°,λ-39.00000°. M_o4.16000×10^{14}
IDC Error ellipse: s-maj=68.7km s-min=32.6km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=7.9km az=169.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 18 33 16.8–3.6**	**38.14N–.05**	**142.40E–.06**	**14–22**	**3.7b**	**37**	**1-145**
NIED	III	20 18 33 00	38.20N	142.30E	26	3.8W		**¶17197527**
IDC	III	20 18 33 14.7–.65	38.12N	142.45E	0	3.9,3.8		
JMA	III	20 18 33 18.5–.20	38.16N	142.34E	37	4.0,3.8		
ISCJB	III	20 18 33 18.1–1.2	38.14N–.05	142.41E–.09	34–10	3.7b,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ42.00000°,λ-100.00000°. NP2:ϕ_s187.00000°,δ49.00000°,λ-81.00000°. M_o6.33000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 18 36 30.8–3.7**	**36.86N–.07**	**141.2E–.10**	**16–27**		**17**	**0-44**
IDC	III	20 18 36 32.3–4.6	36.85N	140.89E	0	3.7b,3.5		**¶602676227**
JMA	III	20 18 36 32.4–.10	36.86N	141.12E	49–1	3.3,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=70.3km s-min=41.3km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 18 43 44.7–.66**	**38.26N–.05**	**141.95E–.05**	**48–5**	**4.4b**	**106**	**1-146**
NIED	III	20 18 43 00	38.30N	141.90E	56	4.3W		**¶16479798**
BJI	III	20 18 43 33.6	37.99N	142.72E	20	4.7b,4.7b		
ISCJB	III	20 18 43 43.1–.65	38.20N–.03	141.99E–.06	50–4	4.4b,3.9s		
NEIC	III	20 18 43 43.6–.47	38.28N	142.01E	35	4.6b,3.9s		
IDC	III	20 18 43 45.3–.64	38.28N	141.86E	47–6	4.3,4.2		
JMA	III	20 18 43 45.1–.10	38.28N	141.89E	47–2	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ23.00000°,λ103.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ84.00000°. M_o3.59000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.1km az=21.5.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.1km az=126.0.
IDC Error ellipse: s-maj=13.9km s-min=11.9km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 18 47 38.3–.75**	**38.77N–.08**	**142.29E–.08**	**35**	**3.8b**	**24**	**1-145**
ISCJB	III	20 18 47 36.5–.64	38.77N–.06	142.32E–.06	35	3.7b		**¶17197530**
JMA	III	20 18 47 38.1–.10	38.73N	142.17E	32–2	4.0		
IDC	III	20 18 47 42.8–3.0	38.70N	142.12E	80–27	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.6km az=153.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=17.8km az=140.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 19 54 20.0–.54**	**37.32N–.03**	**141.09E–.04**	**28–3**	**4.8b,3.9s**	**216**	**0-147**
NIED	III	20 19 54 00	37.30N	141.20E	20	4.4W,3.9s		**¶16339781**
ISCJB	III	20 19 54 19.5–.42	37.29N–.02	141.17E–.04	41–3	4.7b,3.8s		
MOS	III	20 19 54 19.2–1.2	37.42N	141.16E	35	5.0b,3.8s		
JMA	III	20 19 54 20.2–.10	37.31N	141.12E	29–1	4.6,3.8s		
IDC	III	20 19 54 21.1–3.9	37.38N	141.00E	33–30	4.5,4.4b		
NEIC	III	20 19 54 22.3–.71	37.37N	140.98E	43–6	4.8b,4.4b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ6.00000°,λ-96.00000°. NP2:ϕ_s234.00000°,δ84.00000°,λ-89.00000°. M_o5.10000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=17.4.
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=96.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.5km s-min=9.2km az=88.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.9km az=116.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 19 59 07.2–1.4**	**37.43N–.04**	**140.93E–.06**	**7–9**	**3.9b**	**31**	**0-90**
NIED	III	20 19 59 00	37.50N	141.10E	5	3.9W		**¶17197543**
ISCJB	III	20 19 59 06.3–1.0	37.44N–.04	141.14E–.06	12–6	3.8b		
JMA	III	20 19 59 07.4	37.47N	141.05E	11–1	4.1		
IDC	III	20 19 59 12.5–2.4	37.37N	140.97E	47–24	3.9,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s287.00000°,δ51.00000°,λ-97.00000°. M_o6.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=25.6.
JMA Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=16.4km az=98.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 20 05 28.1–.49**	**37.09N–.04**	**141.24E–.05**	**53–4**	**4.4b,3.7s**	**141**	**0-147**
NIED	III	20 20 05 00	37.10N	141.20E	53	4.4W,3.7s		**¶16339782**
ISCJB	III	20 20 05 26.1–.50	37.07N–.03	141.30E–.05	54–3	4.4b,3.7s		
IDC	III	20 20 05 28.6–.54	37.09N	141.08E	54–4	4.3,4.2		
NEIC	III	20 20 05 28.1–.72	37.11N	141.23E	54–6	4.5b,4.2		
JMA	III	20 20 05 28.3–.10	37.10N	141.12E	52–1	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ38.00000°,λ100.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ82.00000°. M_o4.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=7.5.
IDC Error ellipse: s-maj=12.8km s-min=8.8km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=98.0. Recorded [3 JMA] in Fukushima and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 20 17 56.0–.39**	**36.99N–.04**	**141.95E–.03**	**27–2**	**4.9b,4.5s**	**379**	**1-155**
NIED	III	20 20 17 00	36.90N	141.90E	26	4.9W,4.5s		**¶16339783**
ISCJB	III	20 20 17 53.7–.67	37.03N–.03	141.93E–.03	18–4	4.8b,4.5s		
BJI	III	20 20 17 55.1	36.95N	141.84E	30	5.0b,4.7b		
JMA	III	20 20 17 55.2–.40	36.94N	141.90E	29–4	4.8,4.7b		
IDC	III	20 20 17 56.4–4.4	36.89N	141.99E	31–32	4.6,4.5		
GCMT	III	20 20 17 56.8–.40	36.94N	142.04E	24	4.9W,4.5		
NEIC	III	20 20 17 56.8–.19	36.85N	141.88E	35	5.0b,4.5		
MOS	III	20 20 17 57.3–1.0	37.35N	141.91E	35	5.1b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ19.00000°,λ22.00000°. NP2:ϕ_s56.00000°,δ83.00000°,λ108.00000°. M_o2.13000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=153.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.1km az=107.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c16; s60,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.03±.15 $M_{\theta\theta}$0.63±.10; $M_{\phi\phi}$-0.60±.08; $M_{r\theta}$2.34±.12; $M_{\theta\phi}$-0.36±.06; $M_{\phi r}$1.81±.10; Best double couple: NP1:ϕ_s53.00000°,δ89.00000°,λ103.00000°. NP2:ϕ_s146.00000°,δ13.00000°,λ2.00000°. Principal axes: T 2.9390,Plg44.0000°,Azm336.0000°; N 0.1980,Plg13.0000°,Azm233.0000° ; P -3.1380,Plg43.0000°,Azm131.0000° M_o3.03800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=146.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=100.4.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 20 44 27.6–2.2**	**36.14N–.04**	**140.99E–.06**	**11–14**	**3.6b**	**28**	**0-147**
NIED	III	20 20 44 00	36.10N	141.00E	26	3.8W		**¶16341117**
ISCJB	III	20 20 44 28.0–.83	36.14N–.03	141.06E–.07	26–5	3.6b		
JMA	III	20 20 44 29.1–.10	36.09N	140.93E	36–1	3.8		
IDC	III	20 20 44 31.6–3.5	36.08N	140.87E	40–32	3.9L,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ20.00000°,λ-47.00000°. NP2:ϕ_s178.00000°,δ75.00000°,λ-104.00000°. M_o5.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.6km az=176.7.
JMA Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=18.1km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 20 46 22.8–1.4**	**37.69N–.05**	**141.66E–.09**	**54–12**	**3.9b**	**45**	**1-146**
ISCJB	III	20 20 46 22.2–.80	37.69N–.04	141.63E–.09	64–6	3.8b		**¶17197548**
IDC	III	20 20 46 22.4–2.5	37.71N	141.57E	50–25	3.9,3.8		
JMA	III	20 20 46 23.3–.10	37.73N	141.60E	55–2	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=6.9km az=13.4.
IDC Error ellipse: s-maj=17.2km s-min=15.4km az=104.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**20 20 47 29.9–.68**	**36.71N–.04**	**142.02E–.04**	**30–4**	**4.8b,4.1s**	**410**	**2-146**
NIED	III	20 20 47 00	36.70N	142.20E	11	4.5W,4.1s		**¶16339785**
JMA	III	20 20 47 26.2–.30	36.71N	142.25E	31	4.6,4.1s		
ISCJB	III	20 20 47 27.1–1.0	36.68N–.03	141.97E–.03	19–7	4.7b,4.0s		
IDC	III	20 20 47 30.1–4.2	36.65N	142.04E	32–30	4.6,4.5		
MOS	III	20 20 47 31.3–.90	37.09N	141.92E	36	5.0b,4.5		
NEIC	III	20 20 47 31.1–.15	36.74N	141.94E	35	4.8b,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ19.00000°,λ60.00000°. NP2:ϕ_s73.00000°,δ74.00000°,λ100.00000°. M_o7.21000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.8km az=152.7.
IDC Error ellipse: s-maj=13.9km s-min=12.3km az=154.0.
MOS Error ellipse: s-maj=7.9km s-min=4.6km az=114.8.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=160.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 21 04 08.4–1.7**	**36.50N–.08**	**141.0E–.10**	**49–11**	**3.5b**	**18**	**0-56**
IDC	III	20 21 03 59.5–2.6	36.83N	141.65E	0	3.6,3.6b		**¶17197553**
ISCJB	III	20 21 04 07.5–1.3	36.48N–.07	141.1E–.10	55–8	3.5b,3.6b		
JMA	III	20 21 04 10.4–.10	36.52N	140.84E	50–1	3.4,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=63.2km s-min=32.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=9.5km az=32.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 21 46 21.7–1.5**	**37.26N–.05**	**141.28E–.05**	**20–6**	**3.6b**	**27**	**0-147**
NIED	III	20 21 46 00	37.40N	141.30E	41	3.8W		**¶17197560**
IDC	III	20 21 46 18.8–.99	37.29N	141.32E	0	3.9,3.7		
ISCJB	III	20 21 46 21.2–1.1	37.33N–.05	141.46E–.07	26–6	3.6b,3.7		
JMA	III	20 21 46 23.2–.10	37.35N	141.32E	31–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ35.00000°,λ-71.00000°. NP2:ϕ_s222.00000°,δ57.00000°,λ-103.00000°. M_o5.00000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=21.3km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=8.1km az=23.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 21 53 20.8–1.1**	**37.36N–.07**	**141.52E–.09**	**60**	**3.6b**	**16**	**1-63**
NIED	III	20 21 53 00	37.40N	141.70E	5	3.5W		**¶600559601**
IDC	III	20 21 53 13.6–1.2	37.38N	141.67E	0	3.6,3.5b		
JMA	III	20 21 53 17.4–.40	37.37N	141.66E	29	3.6,3.5b		
ISCJB	III	20 21 53 18.8–.87	37.31N–.05	141.52E–.08	60	3.5b,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ33.00000°,λ-41.00000°. NP2:ϕ_s198.00000°,δ69.00000°,λ-116.00000°. M_o1.99000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 22 02 55.6–1.5**	**37.22N–.09**	**141.84E–.09**	**19**	**3.7s,3.4b**	**14**	**1-76**
IDC	III	20 22 02 50.6–1.4	37.43N	142.37E	0	3.7s,3.7		**¶17197563**
ISCJB	III	20 22 02 52.7–1.1	37.14N–.07	141.97E–.07	19	3.7s,3.4b		
NIED	III	20 22 03 00	37.20N	141.40E	5	4.2W,3.4b		
JMA	III	20 22 03 04.3–.20	37.20N	141.35E	48–2	3.5,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=29.1km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=8.2km az=173.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ31.00000°,λ77.00000°. NP2:ϕ_s242.00000°,δ60.00000°,λ98.00000°. M_o2.08000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(36) Northern California

ISC	**III**	**20 22 08 34.0–1.0**	**38.85N–.04**	**122.75W–.05**	**10**		**20**	**0-5**
NEIC	III	20 22 08 33.4	38.84N	122.76W	1	3.2L		**¶16525038**
ISCJB	III	20 22 08 33.9–.74	38.86N–.05	122.81W–.07	10	3.2L		

ISC Event type fe.
NEIC Event type fe. Felt at Geyserville, Hayward, Oakland, Pittsburg and San Francisco. After NCEDC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**20 22 39 04.5–1.5**	**36.22N–.05**	**141.11E–.09**	**31**	**3.6b**	**11**	**1-56**
ISCJB	III	20 22 39 03.8–1.2	36.20N–.05	141.12E–.10	31	3.5b		**¶17197570**
IDC	III	20 22 39 04.0–1.6	35.70N	140.93E	0	3.6,3.5b		
JMA	III	20 22 39 04.7	36.20N	141.04E	36–1	3.4,3.5b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=6.9km az=162.4.
IDC Error ellipse: s-maj=38.0km s-min=31.1km az=63.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 20 22 43 41.9–.60 36.61N–.05 141.9E–.10 35–4 3.9b,3.2s 38 1-147
NIED III 20 22 43 00 36.70N 141.80E 29 4.0W,3.2s **¶16462029**
ISCJB III 20 22 43 40.6–1.2 36.54N–.05 141.92E–.09 40–10 3.9b,3.6s
JMA III 20 22 43 41.4–.20 36.66N 141.83E 56–5 4.2,3.6s
IDC III 20 22 43 44.3–2.5 36.56N 141.80E 56–21 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ47.00000°,λ-113.00000°. NP2:ϕ_s106.00000°,δ48.00000°,λ-67.00000°. $M_0$1.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=7.8km az=5.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=14.0km az=94.0.

(228) Near east coast of eastern Honshu

JMA III 20 23 14 10.8–.10 37.32N 141.12E 31–1 3.7
NIED III 20 23 14 00 37.30N 141.10E 11 4.0W **¶603049956**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ35.00000°,λ31.00000°. NP2:ϕ_s99.00000°,δ73.00000°,λ121.00000°. $M_0$1.09000×10^{15}

(229) Off east coast of Honshu

ISC III 20 23 37 30.1–.88 36.88N–.10 142.23E–.05 10 3.8b 23 1-90
IDC III 20 23 37 28.1–.87 36.71N 142.18E 0 4.0,3.9L **¶602443757**
ISCJB III 20 23 37 28.4–.75 36.90N–.09 142.25E–.06 10 3.8b,3.9L
NEIC III 20 23 37 34.1–2.1 36.72N 142.08E 42–18 4.1b,3.9L
JMA III 20 23 37 52.1–.10 37.24N 141.08E 14–1 4.0,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=19.5km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=7.3km az=174.7.
NEIC Event type fe. Error ellipse: s-maj=18.5km s-min=14.6km az=99.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 20 23 43 12.3–1.1 37.21N–.04 141.05E–.05 14–6 4.4b,3.4s 67 0-147
NIED III 20 23 43 00 37.20N 141.10E 5 4.0W,3.4s **¶16462012**
IDC III 20 23 43 10.0–.67 37.23N 141.05E 0 4.3,4.2
ISCJB III 20 23 43 11.3–.99 37.22N–.04 141.21E–.07 20–5 4.2b,3.4s
JMA III 20 23 43 12.5 37.24N 141.09E 15–1 4.4,3.4s
NEIC III 20 23 43 17.3–.87 37.21N 141.04E 54–7 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s269.00000°,δ45.00000°,λ-56.00000°. NP2:ϕ_s45.00000°,δ54.00000°,λ-119.00000°. $M_0$1.30000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=16.9km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.0km az=24.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=7.0km az=141.0. Recorded [3 JMA] in Fukushima.

(238) Ryukyu Islands

ISC III 20 23 57 03.9–1.5 29.07N–.03 129.52E–.07 11–10 3.3b 27 0-49
NIED III 20 23 57 00 29.10N 129.30E 8 3.9W **¶17197581**
IDC III 20 23 57 03.3–1.5 29.07N 129.38E 0 3.7,3.7L
JMA III 20 23 57 04.1–.10 29.07N 129.44E 22–4 3.7,3.7L
ISCJB III 20 23 57 04.7–.46 29.09N–.02 129.42E–.05 24–4 3.5s,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ38.00000°,λ-154.00000°. NP2:ϕ_s329.00000°,δ74.00000°,λ-55.00000°. $M_0$8.32000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(383) Northwestern Balkan Peninsula

ISC III 21 00 04 12.7–.95 44.83N–.02 17.09E–.02 4–7 382 0-44
NEIC III 21 00 04 12.0 44.88N 17.18E 8 3.6L,3.5L **¶16349265**
ISCJB III 21 00 04 12.5–.33 44.86N–.01 17.14E–.02 6–2 3.0b,3.5L
CSEM III 21 00 04 12.8–.08 44.82N 17.11E 2 3.6L,3.5L
PDG III 21 00 04 12.6–.50 44.87N 17.18E 10–1 3.5L,3.5L
LDG III 21 00 04 12.5–.05 44.89N 17.21E 2 3.4L,3.5L
BEO III 21 00 04 13.8–.34 44.83N 17.26E 0 3.3,3.5L
IDC III 21 00 04 13.8–1.1 44.94N 17.12E 0 3.7L,3.4
PRU III 21 00 04 13.3 44.83N 16.97E 0 3.7L,3.4
ROM III 21 00 04 14.4–.30 44.82N 17.03E 10 3.5L,3.4
VIE III 21 00 04 15.3–.97 44.98N 17.18E 10 3.2L,3.0b
ISC Event type fe.
NEIC Event type fe. Felt [II] at Banja Luka. After PDG.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=39.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=30.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.
LDG Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=31.0.
BEO Event type ke.
IDC Error ellipse: s-maj=16.4km s-min=11.7km az=50.0.
ROM Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=58.0.
VIE Error ellipse: s-maj=11.1km s-min=7.3km az=164.0.

(228) Near east coast of eastern Honshu

ISC III 21 00 16 36.9–2.4 38.74N–.06 142.1E–.20 51 3.4b 15 1-59
JMA III 21 00 16 34.8–.10 38.73N 142.15E 32–2 4.0 **¶17197592**
IDC III 21 00 16 38.8–1.2 39.18N 140.97E 0 3.5,3.4b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.8km s-min=20.2km az=112.0.

(228) Near east coast of eastern Honshu

JMA III 21 00 33 19.6–.10 37.24N 141.05E 29–1 3.6
¶602681838
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 21 01 02 19.6–1.3 36.95N–.05 141.29E–.10 45–10 4.0b 34 0-147
NIED III 21 01 02 00 36.90N 141.20E 47 4.0W **¶600559742**
ISCJB III 21 01 02 18.1–.98 36.93N–.04 141.3E–.10 50–6 3.9b
JMA III 21 01 02 19.7–.10 36.94N 141.19E 48–1 3.9
IDC III 21 01 02 22.2–2.5 36.88N 141.08E 69–22 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ21.00000°,λ94.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ89.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=6.8km az=2.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=11.9km az=73.0.

(228) Near east coast of eastern Honshu

ISC III 21 01 04 02.5–1.3 39.02N–.07 142.36E–.09 27 3.7b 13 1-59
IDC III 21 01 03 58.2–1.4 38.91N 142.33E 0 3.9,3.6 **¶17197598**
NIED III 21 01 04 00 39.10N 142.40E 35 3.6W,3.6
ISCJB III 21 01 04 01.1–1.0 39.01N–.07 142.45E–.08 27 3.6b,3.6
JMA III 21 01 04 02.9–.10 39.05N 142.36E 28–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=31.3km az=96.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ13.00000°,λ55.00000°. NP2:ϕ_s13.00000°,δ80.00000°,λ97.00000°. $M_0$2.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=9.1km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC III 21 01 09 49.3–1.5 37.09N–.04 140.9E–.10 10 3.5b 12 0-57
IDC III 21 01 09 46.1–2.8 38.51N 142.27E 0 3.9L,3.7 **¶17197601**
ISCJB III 21 01 09 48.4–1.4 37.07N–.05 140.9E–.10 10 3.4b,3.7
JMA III 21 01 09 50.3 37.09N 140.84E 6–1 2.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=67.5km s-min=31.8km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=5.9km az=12.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 21 01 10 09.3–.10 35.78N 140.80E 6–2 3.7
NIED III 21 01 10 00 35.80N 140.80E 8 3.7W **¶600559750**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ41.00000°,λ-30.00000°. NP2:ϕ_s144.00000°,δ71.00000°,λ-127.00000°. $M_0$4.15000×10^{14}

(228) Near east coast of eastern Honshu

ISC III 21 01 24 32.4–1.1 36.87N–.04 140.65E–.07 12–8 4.0s,3.7b 15 0-85
NIED III 21 01 24 00 36.90N 140.60E 5 3.6W,3.7b **¶602682377**
IDC III 21 01 24 30.6–1.7 36.85N 140.64E 0 4.1s,4.1
ISCJB III 21 01 24 31.2–.98 36.85N–.04 140.79E–.08 18–6 4.1s,3.6b
JMA III 21 01 24 32.5 36.88N 140.63E 9–1 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ44.00000°,λ-111.00000°. NP2:ϕ_s209.00000°,δ50.00000°,λ-71.00000°. $M_0$2.67000×10^{14}
IDC Error ellipse: s-maj=25.0km s-min=19.9km az=8.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=16.8.
JMA Event type fe.

(227) Eastern Honshu

ISC III 21 01 45 47.3–.92 37.04N–.03 140.64E–.04 10–6 3.8b 43 0-147
NIED III 21 01 45 00 37.00N 140.60E 5 3.9W **¶16450709**
IDC III 21 01 45 45.8–.68 37.04N 140.66E 0 4.0,3.9
ISCJB III 21 01 45 46.9–.52 37.03N–.03 140.71E–.05 19–3 3.8b,3.5s
JMA III 21 01 45 47.5 37.04N 140.63E 5–1 3.9,3.5s
NEIC III 21 01 45 51.3–1.2 37.02N 140.60E 37–10 4.2b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ40.00000°,λ-93.00000°. NP2:ϕ_s228.00000°,δ50.00000°,λ-88.00000°. $M_0$7.75000×10^{14}
IDC Error ellipse: s-maj=18.0km s-min=17.2km az=25.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=34.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s231.00000°,δ55.00000°,λ-103.00000°. NP2:ϕ_s73.00000°,δ37.00000°,λ-72.00000°. Principal axes: T Plg9.0000°,Azm330.0000°; N Plg11.0000°,Azm238.0000°; P Plg76.0000° ,Azm99.0000°
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.4km az=58.0.

(228) Near east coast of eastern Honshu

ISC III 21 01 53 57.2–2.0 36.76N–.05 141.2E–.10 28–12 3.2s 16 0-57
IDC III 21 01 53 47.5–3.3 37.44N 141.71E 0 3.5,3.4b **¶17197606**
ISCJB III 21 01 53 57.9–1.3 36.74N–.05 141.2E–.10 46–10 3.4s,3.3b
JMA III 21 01 53 59.6–.10 36.77N 141.01E 48–1 3.5,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=69.5km s-min=39.4km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=7.8km az=17.2.
JMA Event type fe.

(229) Off east coast of Honshu

ISC III 21 02 56 01.5–.52 37.34N–.05 142.54E–.06 21 4.5b,3.7s 77 1-146
NIED III 21 02 55 00 37.40N 142.50E 8 4.2W,3.7s **¶16340096**
IDC III 21 02 55 58.1–.61 37.36N 142.63E 0 4.4,4.3
BJI III 21 02 55 58.5 37.36N 142.63E 21 4.9b,4.7s
ISCJB III 21 02 55 59.3–.38 37.27N–.04 142.63E–.05 21 4.4b,3.7s
JMA III 21 02 55 59.1–.40 37.44N 142.54E 4 4.4,3.7s
NEIC III 21 02 56 03.3–1.0 37.32N 142.62E 36–9 4.6b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ17.00000°,λ-104.00000°. NP2:ϕ_s29.00000°,δ74.00000°,λ-86.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=13.6km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.9km az=31.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.4km az=86.0.

(228) Near east coast of eastern Honshu

ISC III 21 03 14 08.7–.58 38.89N–.05 142.06E–.07 51 4.3b,3.5s 61 1-81
NIED III 21 03 14 00 38.90N 142.00E 53 4.3W,3.5s **¶16450711**
ISCJB III 21 03 14 07.1–.43 38.91N–.04 142.10E–.05 51 4.3b,3.4s
JMA III 21 03 14 09.4–.10 38.90N 141.96E 50–1 4.1,3.4s
NEIC III 21 03 14 10.1–1.0 38.92N 142.03E 61–8 4.7b,3.4s
IDC III 21 03 14 11.6–1.9 38.86N 141.99E 77–16 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ24.00000°,λ66.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ100.00000°. $M_0$2.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.9km az=43.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.7km az=113.0.
IDC Error ellipse: s-maj=17.2km s-min=13.6km az=95.0.

(229) Off east coast of Honshu

ISC III 21 03 17 38.4–.70 38.69N–.06 144.02E–.08 14 4.0b 48 2-118
IDC III 21 03 17 35.5–.69 38.55N 144.08E 0 4.3L,4.2 **¶602682183**
ISCJB III 21 03 17 36.7–.51 38.62N–.05 144.01E–.06 14 4.0b,4.2
NEIC III 21 03 17 37.1–.48 38.57N 144.17E 10 4.5b,4.2
JMA III 21 03 17 39.3–.30 38.65N 143.97E 43 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=13.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.1km az=142.2.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.3km az=128.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

(227) Eastern Honshu

ISC III 21 03 39 05.9–1.3 36.98N–.04 138.61E–.04 15–10 3.2b 21 0-57
NIED III 21 03 39 00 37.00N 138.60E 8 3.7W **¶16341119**
IDC III 21 03 39 03.1–1.4 37.07N 138.64E 0 3.7,3.4b
ISCJB III 21 03 39 06.1–.48 36.93N–.04 138.59E–.05 35–8 3.3b,3.4b
JMA III 21 03 39 07.2 36.96N 138.59E 8–1 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ79.00000°,λ7.00000°. NP2: ϕ_s283.00000°,δ83.00000°,λ169.00000°. $M_0$3.42000×10^{14}
IDC Error ellipse: s-maj=11.6km s-min=10.6km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=36.1.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 21 03 58 14.1–1.5 37.35N–.06 141.2E–.10 35 3.6b 12 0-57
IDC III 21 03 58 09.0–2.5 37.18N 141.26E 0 3.7,3.6b **¶17197618**
ISCJB III 21 03 58 12.1–1.3 37.36N–.06 141.3E–.10 35 3.7b,3.6b
JMA III 21 03 58 14.2–.10 37.39N 141.24E 27–1 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=59.2km s-min=29.1km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=9.0km az=0.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 21 04 11 40.2 36.68N 140.60E 8–1 2.9
¶603049960
JMA Event type fe.

(227) Eastern Honshu

ISC III 21 04 15 14.7–1.1 36.22N–.03 137.60E–.03 2–6 4.6s,4.6b 130 0-150
NIED III 21 04 15 00 36.30N 137.60E 5 4.8W,4.6b **¶602443760**
ISCJB III 21 04 15 13.7–.45 36.23N–.03 137.59E–.02 6–2 4.6s,4.5b
BJI III 21 04 15 13.2 36.20N 137.60E 5 4.8b,4.8s
JMA III 21 04 15 14.0 36.25N 137.59E 3 4.8,4.8s
IDC III 21 04 15 14.2–.53 36.27N 137.58E 0 4.5,4.4s
NEIC III 21 04 15 15.1–.83 36.21N 137.58E 4–5 4.7b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ25.00000°,λ127.00000°. NP2:ϕ_s29.00000°,δ70.00000°,λ75.00000°. $M_0$1.76000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=172.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ54.00000°,λ89.00000°. NP2:ϕ_s223.00000°,δ36.00000°,λ92.00000°. Principal axes: T Plg81.0000°,Azm305.0000°; N Plg1.0000°,Azm42.0000°; P Plg9.0000° ,Azm132.0000°
IDC Error ellipse: s-maj=14.7km s-min=7.1km az=160.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=155.0. Recorded [3 JMA] in Gifu.

(228) Near east coast of eastern Honshu

ISC III 21 04 22 27.3–1.2 36.72N–.04 140.62E–.09 10 3.6b 11 0-64
ISCJB III 21 04 22 24.6–1.0 36.64N–.04 140.88E–.08 10 3.5b **¶17197624**
IDC III 21 04 22 25.4–1.1 36.36N 142.95E 0 4.6L,3.8
JMA III 21 04 22 28.1 36.74N 140.60E 7–1 3.7,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.5km az=18.3.
IDC Error ellipse: s-maj=43.8km s-min=21.6km az=114.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 21 05 08 04.2–.49 36.22N–.03 141.66E–.03 23–3 5.2b,4.3s 1120 1-158
IDC III 21 05 08 00.4–.37 36.18N 141.55E 0 5.0,4.9L **¶602681629**
BJI III 21 05 08 00.9 36.20N 141.60E 18 4.9b,4.8b
NIED III 21 05 08 00 36.20N 141.70E 23 4.8W,4.8b

ISCJB III 21 05 08 03.7–.69 36.19N–.02 141.52E–.02 29–4 5.1b,4.3s
JMA III 21 05 08 04.2–.20 36.24N 141.58E 49–4 5.0,4.3s
MOS III 21 05 08 05.1–.80 36.38N 141.47E 34 5.3b,4.3s
GCMT III 21 05 08 06.2–.40 36.18N 141.52E 31–1 4.9W,4.3s
NEIC III 21 05 08 06.2–.42 36.19N 141.46E 36–3 5.3b,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=9.7km az=77.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_{fp}249.00000°,δ42.00000°,λ-136.00000°. NP2:ϕ_s123.00000°,δ62.00000°,λ-57.00000°. M_o1.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.5km az=161.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=106.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c37; s72,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.09±.17 $M_{\theta\theta}$2.69±.11; $M_{\phi\phi}$-0.59±.10; $M_{r\theta}$-0.86±.13; $M_{\theta\phi}$-0.22±.08; $M_{\phi r}$1.23±.13; Best double couple: NP1:ϕ_s119.00000°,δ61.00000°,λ-60.00000°. NP2:ϕ_s249.00000°,δ40.00000°,λ-132.00000°. Principal axes: T 2.8950,Plg11.0000°,Azm188.0000°; N -0.0350,Plg26.0000°,Azm283.0000° ; P -2.8580,Plg61.0000°,Azm76.0000° M_o2.87700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=143.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
JMA III 21 05 08 05.8–.10 37.35N 141.34E 46–1 3.8 ¶602443761
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 21 05 15 08.5 36.82N 140.57E 5–1 3.6 ¶602681622
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s204.00000°,δ87.00000°,λ-79.00000°. NP2:ϕ_s310.00000°,δ11.00000°,λ-164.00000°. Principal axes: T Plg41.0000°,Azm284.0000°; N Plg11.0000°,Azm23.0000°; P Plg47.0000° ,Azm125.0000°
(228) Near east coast of eastern Honshu
JMA III 21 05 37 02.3–.10 35.84N 140.93E 10–1 3.5
NIED III 21 05 37 00 35.80N 140.90E 8 3.6W **¶602681100**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ45.00000°,λ-41.00000°. NP2:ϕ_s155.00000°,δ62.00000°,λ-128.00000°. M_o2.44000×10^{14}
(229) Off east coast of Honshu
ISC III 21 05 54 10.7–.39 36.28N–.03 142.10E–.03 24–2 5.1b,4.8s 603 1-148
NIED III 21 05 54 00 36.30N 142.20E 17 4.9W,4.8s **¶600560047**
IDC III 21 05 54 06.7–.51 36.25N 142.19E 0 4.9,4.8
BJI III 21 05 54 07.8 36.20N 142.10E 37 5.2b,5.1b
JMA III 21 05 54 09.4–.20 36.30N 142.17E 71 5.1,5.1b
ISCJB III 21 05 54 09.0–.68 36.32N–.02 142.06E–.02 20–4 5.0b,4.7s
MOS III 21 05 54 12.3–.79 36.62N 142.00E 33 5.4b,4.8s
GCMT III 21 05 54 12.5–.30 36.26N 142.41E 26–1 5.0W,4.8s
NEIC III 21 05 54 12.5–.14 36.25N 142.01E 35 5.0b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ32.00000°,λ48.00000°. NP2:ϕ_s32.00000°,δ67.00000°,λ113.00000°. M_o2.62000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.6km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=143.6.
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=112.4.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c51; s85,c123; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.33±.18 $M_{\theta\theta}$-0.92±.11; $M_{\phi\phi}$-2.41±.11; $M_{r\theta}$1.09±.20; $M_{\theta\phi}$-1.13±.06; $M_{\phi r}$3.19±.20; Best double couple: NP1:ϕ_s22.00000°,δ68.00000°,λ86.00000°. NP2:ϕ_s213.00000°,δ22.00000°,λ101.00000°. Principal axes: T 4.8040,Plg66.0000°,Azm284.0000°; N -0.3520,Plg4.0000°,Azm23.0000° ; P -4.4530,Plg23.0000°,Azm115.0000° M_o4.62800×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=148.0.
(228) Near east coast of eastern Honshu
ISC III 21 07 33 55.9–2.1 36.57N–.06 141.2E–.10 29–11 3.6b 20 0-86
NIED III 21 07 33 00 36.60N 141.10E 50 3.6W **¶17197646**
IDC III 21 07 33 50.1–2.5 36.63N 141.57E 0 3.7,3.6b
ISCJB III 21 07 33 56.0–1.4 36.58N–.06 141.2E–.10 45–8 4.2s,3.6b
JMA III 21 07 33 57.3–.10 36.60N 141.08E 46–2 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_{fp}240.00000°,δ13.00000°,λ127.00000°. NP2:ϕ_s23.00000°,δ80.00000°,λ82.00000°. M_o3.25000×10^{14}
IDC Error ellipse: s-maj=65.6km s-min=26.2km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=7.8km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 21 07 40 42.0–.74 37.12N–.05 141.60E–.07 33 3.8b 24 1-83
NIED III 21 07 40 00 37.20N 141.60E 20 3.8W **¶17197647**
IDC III 21 07 40 36.9–.96 37.08N 141.73E 0 3.9,3.9
ISCJB III 21 07 40 40.0–.59 37.09N–.04 141.71E–.06 33 3.8b,3.9
JMA III 21 07 40 41.8–.20 37.15N 141.60E 46–2 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ24.00000°,λ155.00000°. NP2:ϕ_s220.00000°,δ80.00000°,λ68.00000°. M_o4.91000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=17.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.8km az=2.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 21 08 06 22.2–.77 36.47N–.04 141.59E–.04 24–5 4.8b,4.1s 371 1-155
NIED III 21 08 06 00 36.50N 141.60E 8 4.6W,4.1s **¶16340102**
IDC III 21 08 06 18.2–.42 36.44N 141.64E 0 4.7,4.7
ISCJB III 21 08 06 20.2–.68 36.45N–.02 141.58E–.03 20–4 4.8b,4.0s
JMA III 21 08 06 21.5–.20 36.48N 141.56E 45–4 4.6,4.0s
NEIC III 21 08 06 22.1–1.4 36.45N 141.54E 21–10 4.9b,4.0s
BJI III 21 08 06 22.9 36.48N 141.26E 26 4.9b,4.8b
MOS III 21 08 06 24.2–.85 36.87N 141.47E 33 5.0b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ42.00000°,λ58.00000°. NP2:ϕ_s1.00000°,δ56.00000°,λ115.00000°. M_o7.68000×10^{15}
IDC Error ellipse: s-maj=12.9km s-min=10.2km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.3km az=149.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.7km az=132.0.
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=110.8.
(228) Near east coast of eastern Honshu
ISC III 21 08 09 22.2–3.7 39.17N–.05 142.62E–.06 17–23 4.5b,4.2s 54 1-88
NIED III 21 08 09 00 39.20N 142.60E 26 4.3W,4.2s **¶602680799**
ISCJB III 21 08 09 18.9–.37 39.14N–.04 142.74E–.04 10 4.3b,4.2s
IDC III 21 08 09 19.7–.61 39.12N 142.47E 0 4.4,4.3
JMA III 21 08 09 23.0–.20 39.17N 142.57E 24–1 4.5,4.3
NEIC III 21 08 09 26.3–1.2 39.20N 142.63E 50–10 4.6b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ18.00000°,λ73.00000°. NP2:ϕ_s17.00000°,δ73.00000°,λ95.00000°. M_o3.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.8km az=0.6.
IDC Error ellipse: s-maj=16.2km s-min=13.9km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.0km az=118.0.
(228) Near east coast of eastern Honshu
ISC III 21 08 48 07.6–.55 36.48N–.05 141.50E–.06 26 4.1b 45 1-147
NIED III 21 08 48 00 36.50N 141.50E 11 4.0W **¶602680531**
IDC III 21 08 48 03.4–.67 36.42N 141.62E 0 4.2,4.1
ISCJB III 21 08 48 05.8–.40 36.42N–.04 141.61E–.04 26 4.0b,2.9s
JMA III 21 08 48 07.6–.20 36.52N 141.51E 49–4 3.8,2.9s
NEIC III 21 08 48 08.9–.42 36.46N 141.56E 35 4.2b,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ55.00000°,λ45.00000°. NP2:ϕ_s5.00000°,δ55.00000°,λ135.00000°. M_o1.05000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=15.1km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.9km az=147.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.6km az=141.0.
(228) Near east coast of eastern Honshu
ISC III 21 09 15 27.7–1.8 36.55N–.04 141.01E–.09 26–12 3.4b 19 0-46
IDC III 21 09 15 21.8–4.0 36.71N 141.40E 0 3.6,3.5 **¶600560371**
JMA III 21 09 15 29.6–.10 36.55N 140.84E 52–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=75.1km s-min=35.1km az=92.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 21 09 20 53.8–1.1 36.66N–.05 140.97E–.09 45–8 4.1b 33 0-147
NIED III 21 09 20 00 36.60N 141.00E 50 3.9W **¶602680423**
ISCJB III 21 09 20 53.5–.71 36.66N–.04 140.9E–.10 59–4 4.0b
JMA III 21 09 20 54.0–.10 36.65N 140.95E 48–1 3.9
IDC III 21 09 20 56.3–2.2 36.74N 140.68E 60–21 4.2,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ14.00000°,λ94.00000°. NP2:ϕ_s42.00000°,δ76.00000°,λ89.00000°. M_o9.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=6.7km az=10.8.
JMA Event type fe.
IDC Error ellipse: s-maj=25.1km s-min=19.5km az=171.0.
(229) Off east coast of Honshu
ISC III 21 09 24 17.0–.62 37.87N–.05 142.58E–.06 14 3.9b 40 1-145
NIED III 21 09 24 00 37.90N 142.50E 26 4.3W **¶16342625**
ISCJB III 21 09 24 15.1–.44 37.81N–.04 142.67E–.05 14 4.0b
NEIC III 21 09 24 16.7–.46 37.92N 142.63E 10 4.6b
JMA III 21 09 24 19.0–.20 37.95N 142.55E 28 4.4
IDC III 21 09 24 20.5–4.2 37.92N 142.51E 34–33 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ66.00000°,λ164.00000°. NP2:ϕ_s231.00000°,δ75.00000°,λ25.00000°. M_o3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.5km az=154.4.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.1km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=15.0km az=105.0.
(718) Hindu Kush region
ISC III 21 09 49 01.8–.19 36.52N–.02 70.96E–.02 194–1 5.5b 1903 3-150
MOS III 21 09 48 59.4–.91 36.51N 70.96E 178 5.7b **¶16341179**
BJI III 21 09 49 00.6 36.65N 70.99E 186 5.5b,5.2b
ISCJB III 21 09 49 00.0–.21 36.52N–.01 70.98E–.01 187–2 5.5b,5.2b
GCMT III 21 09 49 01.6–.10 36.47N 70.73E 194–0 5.8W,5.2b
NEIC III 21 09 49 01.6–.45 36.49N 70.93E 190–4 5.8W,5.8W
IDC III 21 09 49 02.1–.41 36.46N 71.00E 198–3 5.7,5.2
NEIC III 21 09 49 02.0–.00 36.52N 70.92E 196 5.7,5.2
NNC III 21 09 49 07.7–1.5 37.03N 71.19E 229–13 6.4,5.2b
ISC Event type fe.
MOS Error ellipse: s-maj=5.1km s-min=3.5km az=111.2.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=25.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c218; s141,c396;Duration: 1↟9 Moment tensor: Scale 10^{17}Nm; M_{rr}4.25±.05 $M_{\theta\theta}$-5.00±.06; $M_{\phi\phi}$0.74±.06; $M_{r\theta}$3.15±.05; $M_{\theta\phi}$-0.12±.06; $M_{\phi r}$2.90±.05; Best double couple: NP1:ϕ_s63.00000° ,δ67.00000°,λ67.00000°. NP2:ϕ_s292.00000°,δ32.00000°,λ134.00000°. Principal axes: T 6.5310,Plg61.0000°,Azm298.0000°; N -0.4150,Plg21.0000°,Azm73.0000° ; P -6.1230,Plg19.0000°,Azm171.0000° M_o6.32700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=196.0. Felt [III] at Bagrami, Charikar, Jalalabad and Kabul; [II] at Baghlan and Jabal us Saraj. Felt [III] at Islamabad, Lahore and Peshawar; [II] at Rawalpindi, Pakistan. Felt in much of northeastern Afghanistan and northern Pakistan. Felt [III] at Delhi, Gurgaon, Jaipur and Noida; [II] at Chandigarh, India. Also felt at Ghaziabad. Felt [II] at Dushanbe, Tajikistan. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}5.09 $M_{\theta\theta}$-3.65 $M_{\phi\phi}$-1.44 $M_{r\theta}$2.04 $M_{\theta\phi}$-0.24 $M_{\phi r}$2.74 Best double couple: NP1:ϕ_s268.00000°,δ30.00000°,λ116.00000°. NP2:ϕ_s58.00000° ,δ63.00000°,λ76.00000°. Principal axes: T 6.4200,Plg69.0000°,Azm300.0000° ; N -2.0200,Plg13.0000°,Azm65.0000°; P -4.4100,Plg17.0000°,Azm159.0000° M_o5.70000×10^{17}
IDC Error ellipse: s-maj=6.8km s-min=5.0km az=16.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}3.96 $M_{\theta\theta}$-4.86 $M_{\phi\phi}$0.89 $M_{r\theta}$3.30 $M_{\theta\phi}$-0.68 $M_{\phi r}$2.77 Best double couple: NP1:ϕ_s60.00000° ,δ68.00000°,λ69.00000°. NP2:ϕ_s287.00000°,δ30.00000°,λ132.00000°. Principal axes: T 6.2000,Plg60.0000°,Azm298.0000°; N 0.1000,Plg19.0000°,Azm68.0000° ; P -6.3000,Plg20.0000°,Azm166.0000° M_o6.20000×10^{17}
NNC Event type se. Error ellipse: s-maj=14.2km s-min=12.8km az=37.0.
(228) Near east coast of eastern Honshu
JMA III 21 10 02 43.7–.10 36.72N 141.06E 45–1 3.6
NIED III 21 10 02 00 36.70N 141.10E 53 3.7W **¶600560417**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ35.00000°,λ4.00000°. NP2:ϕ_s37.00000°,δ88.00000°,λ125.00000°. M_o4.64000×10^{14}
(228) Near east coast of eastern Honshu
ISC III 21 10 27 11.1–.97 36.75N–.04 140.54E–.05 8–7 4.0b 37 0-91
NIED III 21 10 27 00 36.70N 140.60E 5 3.9W **¶16479957**
IDC III 21 10 27 09.9–.67 36.78N 140.52E 0 4.2,4.0
ISCJB III 21 10 27 10.5–.63 36.71N–.04 140.66E–.06 16–4 4.0b,4.0
JMA III 21 10 27 11.2 36.74N 140.59E 4–1 3.9,4.0
NEIC III 21 10 27 15.8–.92 36.81N 140.45E 40–8 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ31.00000°,λ-144.00000°. NP2:ϕ_s229.00000°,δ72.00000°,λ-64.00000°. M_o9.12000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=14.9km az=146.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.4km az=33.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.0km az=142.0.
(250) Mindoro
ISC III 21 10 36 49.3–.24 13.93N–.02 120.54E–.03 94–1 5.4b 960 0-157
MAN III 21 10 36 47 13.86N 120.23E 75 6.0b,5.7s **¶16341180**
BJI III 21 10 36 47.3 13.90N 120.71E 97 5.6b,5.3b
IDC III 21 10 36 48.7–.38 13.90N 120.64E 90–3 5.3,5.0
ISCJB III 21 10 36 49.3–.19 13.98N–.01 120.56E–.02 105–2 5.4b,5.0
MOS III 21 10 36 49.6–.80 13.93N 120.62E 115 5.6b,5.0
KLM III 21 10 36 50.2 13.91N 120.51E 88 6.1s,5.4b
GCMT III 21 10 36 50.1–.10 13.98N 120.37E 89–1 5.5W,5.4b
NEIC III 21 10 36 50.1–.37 13.92N 120.57E 102–3 5.5W,5.4b
BKK III 21 10 36 54.1–.70 14N–4.0 120E–4.0 120–6 6.0,5.6b
DJA III 21 10 36 54.4–.30 14N–2.0 120E–2.0 129–4 5.9,5.8b
ISC Event type fe.
MAN Event type fe. INTENSITY V - BATANGAS CITY; INTENSITY IV - MANILA CITY.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s112,c172; s130,c253;Duration: 1↟4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.03 $M_{\theta\theta}$0.33±.03; $M_{\phi\phi}$-1.11±.04; $M_{r\theta}$1.42±.02; $M_{\theta\phi}$1.72±.03; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s107.00000°,δ69.00000°,λ35.00000°. NP2:ϕ_s4.00000°,δ58.00000° ,λ155.00000°. Principal axes: T 2.6660,Plg39.0000°,Azm329.0000°; N -0.3720,Plg50.0000° ,Azm134.0000°; P -2.2980,Plg7.0000°,Azm233.0000° M_o2.48200×10^{17}
NEIC Event type fe. Felt [V PIVS] at Batangas; [IV PIVS] at Bacoor, Manila, Marikina, Tagaytay and Talisay; [III PIVS] at Alabang, Dasmarinas, Makati, Malabon, Malolos, Mandaluyong City, Muntinlupa City, Obando, Quezon City and Taguig; [III] at Cavite and Olangapo, Luzon. Felt throughout central Luzon and as far as Baguio and Gumaca. Felt [IV PIVS] at Lubang, Puerto Galera and San Teodoro; [III PIVS] at Abra de Ilog, Calapan and San Jose, Mindoro. Also felt on Lubang Island. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$1.01 $M_{\phi\phi}$-1.98 $M_{r\theta}$1.31 $M_{\theta\phi}$0.96 $M_{\phi r}$0.97 Best double couple: NP1:ϕ_s128.00000° ,δ52.00000°,λ25.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ139.00000°. Principal axes: T 2.7000,Plg42.0000°,Azm338.0000°; N -0.3200,Plg45.0000°,Azm180.0000° ; P -2.3800,Plg12.0000°,Azm78.0000° M_o2.50000×10^{17}
(228) Near east coast of eastern Honshu
JMA III 21 10 42 44.0 36.47N 141.07E 23–1 3.7 ¶16462043
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 21 10 55 04.1–.90 35.83N–.04 140.82E–.06 15–5 3.9b 37 0-148
NIED III 21 10 55 00 35.90N 140.90E 5 4.0W **¶16462063**
JMA III 21 10 55 03.7–.10 35.87N 140.88E 13–1 4.1
ISCJB III 21 10 55 03.7–.54 35.82N–.03 140.81E–.06 23–3 3.8b

IDC III 21 10 55 08.4–1.7 35.77N 140.71E 48–17 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ49.00000°,λ-56.00000°. NP2:ϕ_s325.00000°,δ51.00000°,λ-122.00000°. $M_0$1.09000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=160.8.
IDC Error ellipse: s-maj=18.3km s-min=8.1km az=70.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**III**	**21 11 49 21.6–.74**	**0.67S–.07**	**119.85E–.06**	**45**	**4.0b**	**26**	**0-118**
IDC	III	21 11 49 15.6–.80	0.50S	120.22E	0	4.1,4.0		**¶16479968**
DJA	III	21 11 49 17.3–.30	1S–3.0	120E–2.0	10	4.2b,4.1		
ISCJB	III	21 11 49 19.4–.47	0.71S–.06	119.78E–.05	45	3.9b,2.7s		
NEIC	III	21 11 49 21.2–1.4	0.66S	120.00E	39–14	4.0b,2.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=57.9km s-min=14.1km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.6km az=0.4.
NEIC Event type fe. Error ellipse: s-maj=16.0km s-min=9.9km az=72.0. Felt [III] at Palu.

(229) Off east coast of Honshu

ISC	**III**	**21 12 37 34.7–.34**	**37.46N–.04**	**142.45E–.04**	**20–1**	**5.1b,4.3s**	**582**	**1-154**
NIED	III	21 12 37 00	37.40N	142.40E	14	4.7W,4.3s		**¶16341360**
IDC	III	21 12 37 31.5–.39	37.40N	142.48E	0	4.9,4.9		
ISCJB	III	21 12 37 34.0–.75	37.44N–.02	142.36E–.02	21–5	5.0b,4.3s		
BJI	III	21 12 37 33.8	37.46N	142.41E	29	5.1b,4.9b		
JMA	III	21 12 37 33.2–.30	37.45N	142.38E	13–4	4.9,4.9b		
NEIC	III	21 12 37 35.9–1.1	37.42N	142.37E	24–8	5.0b,4.9b		
GCMT	III	21 12 37 35.9–.50	37.50N	142.39E	22–1	4.8W,4.9b		
MOS	III	21 12 37 37.4–.88	37.83N	142.33E	33	5.2b,4.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ38.00000°,λ-94.00000°. NP2:ϕ_s352.00000°,δ52.00000°,λ-87.00000°. $M_0$1.12000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=139.0.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s61,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.30±.19 $M_{\theta\theta}$0.47±.11; $M_{\phi\phi}$1.82±.11; $M_{r\theta}$0.36±.25; $M_{\theta\phi}$-0.08±.07; $M_{\phi r}$-0.03±.16; Best double couple: NP1:ϕ_s349.00000°,δ46.00000°,λ-100.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-80.00000°. Principal axes: T 1.8250,Plg1.0000°,Azm86.0000°; N 0.5160,Plg7.0000°,Azm356.0000°; P -2.3470,Plg83.0000°,Azm182.0000° $M_0$2.08600×10^{16}
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=106.3.

(249) Luzon

ISC	**III**	**21 13 29 13.3–.73**	**13.76N–.04**	**123.36E–.04**	**22–6**	**4.0b**	**41**	**1-151**
IDC	III	21 13 29 09.4–.78	13.65N	123.36E	0	4.1,3.9b		**¶16447665**
MAN	III	21 13 29 13	13.81N	123.38E	20	5.5b,4.7s		
NEIC	III	21 13 29 14.7–1.8	13.63N	123.31E	35–17	4.0b,4.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=54.2km s-min=16.2km az=64.0.
MAN Event type fe. INTENSITY IV - NAGA CITY AND PILI.
NEIC Event type fe. Error ellipse: s-maj=25.0km s-min=9.5km az=67.0. Felt [IV PIVS] at Naga and Pili. Also felt at Camaligan, Daet and Magarao.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 13 49 20.9–1.5**	**36.40N–.05**	**141.10E–.05**	**6–8**	**4.6b,3.6s**	**121**	**0-152**
NIED	III	21 13 49 00	36.50N	141.10E	5	4.4W,3.6s		**¶16341363**
IDC	III	21 13 49 20.2–.50	36.40N	141.07E	0	4.4,4.3		
JMA	III	21 13 49 22.2	36.47N	141.09E	24–1	4.7,4.3		
ISCJB	III	21 13 49 23.0–.82	36.43N–.03	141.02E–.04	28–5	4.4b,3.6s		
NEIC	III	21 13 49 24.5–.90	36.38N	140.96E	29–6	4.6b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ42.00000°,λ-122.00000°. NP2:ϕ_s182.00000°,δ55.00000°,λ-64.00000°. $M_0$4.38000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.8km az=109.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=135.8.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=5.5km az=144.0. Recorded [3 JMA] in Ibaraki.

(230) Near south coast of eastern Honshu

ISC	**III**	**21 14 14 32.7–1.1**	**35.21N–.03**	**139.01E–.04**	**3–8**	**3.7b,3.4s**	**22**	**0-78**
NIED	III	21 14 14 00	35.20N	139.00E	5	4.1W,3.4s		**¶600560718**
IDC	III	21 14 14 31.9–.86	35.11N	138.82E	0	3.9,3.7		
ISCJB	III	21 14 14 32.2–.47	35.22N–.03	139.03E–.04	7–4	3.7b,3.4s		
JMA	III	21 14 14 32.5	35.21N	139.02E	3–1	4.2,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ68.00000°,λ7.00000°. NP2:ϕ_s283.00000°,δ84.00000°,λ158.00000°. $M_0$1.39000×10^{15}
IDC Error ellipse: s-maj=28.8km s-min=12.4km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.6km az=169.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s293.00000°,δ85.00000°,λ-130.00000°. NP2:ϕ_s197.00000°,δ41.00000°,λ-8.00000°. Principal axes: T Plg28.0000°,Azm54.0000°; N Plg40.0000°,Azm297.0000°; P Plg37.0000°,Azm168.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**21 14 39 55.0–1.1**	**35.82N–.04**	**140.77E–.07**	**8–8**	**3.3b**	**21**	**0-91**
NIED	III	21 14 39 00	35.80N	140.90E	5	3.6W		**¶602680111**
ISCJB	III	21 14 39 53.0–1.2	35.88N–.04	141.02E–.07	7–7	3.6s,3.2b		
IDC	III	21 14 39 53.5–.89	35.66N	140.61E	0	3.6,3.6		
JMA	III	21 14 39 55.0–.10	35.82N	140.90E	10–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ32.00000°,λ-36.00000°. NP2:ϕ_s309.00000°,δ72.00000°,λ-117.00000°. $M_0$2.63000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.2km az=1.7.
IDC Error ellipse: s-maj=25.6km s-min=22.2km az=66.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 14 53 50.3–1.1**	**36.73N–.03**	**140.51E–.06**	**6–7**	**4.3b,3.3s**	**63**	**0-147**
NIED	III	21 14 53 00	36.70N	140.60E	5	4.4W,3.3s		**¶602680051**
IDC	III	21 14 53 49.5–.52	36.71N	140.48E	0	4.4,4.4L		
JMA	III	21 14 53 50.6	36.73N	140.59E	5–1	4.5,4.4L		
ISCJB	III	21 14 53 50.1–.54	36.70N–.03	140.64E–.05	16–3	4.2b,3.4s		
NEIC	III	21 14 53 53.2–2.6	36.74N	140.50E	23–19	4.5b,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ25.00000°,λ-97.00000°. NP2:ϕ_s167.00000°,δ65.00000°,λ-86.00000°. $M_0$4.36000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=12.0km az=152.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s177.00000°,δ47.00000°,λ-76.00000°. NP2:ϕ_s337.00000°,δ45.00000°,λ-104.00000°. Principal axes: T Plg1.0000°,Azm257.0000°; N Plg10.0000°,Azm347.0000°; P Plg80.0000°,Azm159.0000°
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.3km az=19.6.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=7.8km az=137.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 15 06 08.9–1.6**	**36.74N–.05**	**141.2E–.10**	**41–14**	**3.6b**	**22**	**0-57**
ISCJB	III	21 15 06 07.9–1.0	36.73N–.04	141.2E–.10	53–7	3.6b		**¶17197689**
JMA	III	21 15 06 09.4–.10	36.74N	141.12E	46–1	3.5		
IDC	III	21 15 06 11.8–5.8	36.67N	140.99E	66–38	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=7.1km az=0.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=75.0km s-min=14.3km az=75.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 15 08 14.2–.71**	**36.01N–.04**	**141.05E–.08**	**31**	**3.7b**	**24**	**0-147**
NIED	III	21 15 08 00	36.00N	141.20E	14	3.9W		**¶602680021**
ISCJB	III	21 15 08 12.5–.60	36.02N–.04	141.14E–.08	31	3.7b,2.8s		
JMA	III	21 15 08 12.1–.10	35.98N	141.21E	35–2	4.0,2.8s		
IDC	III	21 15 08 17.1–2.2	35.96N	140.92E	58–21	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ58.00000°,λ-29.00000°. NP2:ϕ_s340.00000°,δ66.00000°,λ-144.00000°. $M_0$9.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.5km az=2.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=11.6km az=82.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**21 15 08 40.6–.10**	**36.64N**	**141.00E**	**42–1**	**3.5**		
								¶600560845

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(402) North Atlantic Ocean

ISC	**III**	**21 15 55 00.9–1.8**	**19.17N–.08**	**68.27W–.04**	**1–12**	**3.6b**	**54**	**1-159**
IDC	III	21 15 55 00.5–.99	19.17N	68.28W	0	4.0,3.8		**¶16341369**
RSPR	III	21 15 55 04.9	19.32N	68.29W	18–5	3.6,3.8		
NEIC	III	21 15 55 05.7–.47	19.13N	68.25W	35	3.6,3.8		

ISC Event type fe.
IDC Error ellipse: s-maj=28.5km s-min=20.0km az=31.0.
RSPR Event type ke.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=5.6km az=205.0. Felt [III] at Mayaguez, Puerto Rico.

(229) Off east coast of Honshu

ISC	**III**	**21 16 44 16.1–2.1**	**37.73N–.05**	**142.28E–.07**	**8–12**	**4.1b**	**44**	**1-69**
NIED	III	21 16 44 00	37.80N	142.30E	17	3.8W		**¶16447669**
IDC	III	21 16 44 14.8–.82	37.66N	142.34E	0	3.9,3.9		
ISCJB	III	21 16 44 15.7–1.4	37.69N–.04	142.33E–.07	18–9	4.0b,3.9		
JMA	III	21 16 44 17.2–.30	37.75N	142.26E	20–4	4.2,3.9		
NEIC	III	21 16 44 18.8–3.2	37.70N	142.31E	26–22	4.4b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ10.00000°,λ-106.00000°. NP2:ϕ_s217.00000°,δ80.00000°,λ-87.00000°. $M_0$6.10000×10^{14}
IDC Error ellipse: s-maj=20.1km s-min=14.3km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.6km az=11.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.5km az=118.0.

(229) Off east coast of Honshu

ISC	**III**	**21 16 46 57.2–.44**	**37.74N–.04**	**142.33E–.04**	**19–1**	**4.9b,4.7s**	**380**	**1-151**
NIED	III	21 16 46 00	37.70N	142.30E	20	5.0W,4.7s		**¶16341370**
IDC	III	21 16 46 54.5–.42	37.71N	142.38E	0	4.5,4.4		
BJI	III	21 16 46 54.4	37.78N	142.17E	10	5.1b,4.9b		
ISCJB	III	21 16 46 54.5–.84	37.73N–.02	142.35E–.02	11–5	4.8b,4.7s		
JMA	III	21 16 46 56.4–.20	37.74N	142.31E	22–4	5.0,4.7s		
MOS	III	21 16 46 56.8–1.2	37.85N	142.40E	24	5.1b,4.7s		
NEIC	III	21 16 46 57.3–.55	37.72N	142.28E	19–3	5.0b,4.7s		
GCMT	III	21 16 46 57.3–.40	37.92N	142.31E	23–1	5.0W,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ14.00000°,λ-130.00000°. NP2:ϕ_s214.00000°,δ79.00000°,λ-81.00000°. $M_0$3.12000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=168.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=104.7.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.4km az=135.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c33; s69,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.94±.17 $M_{\theta\theta}$0.02±.09; $M_{\phi\phi}$1.92±.11; $M_{r\theta}$1.63±.18; $M_{\theta\phi}$0.40±.06; $M_{\phi r}$1.97±.16; Best double couple: NP1:ϕ_s213.00000°,δ72.00000°,λ-76.00000°. NP2:ϕ_s354.00000°,δ22.00000°,λ-126.00000°. Principal axes: T 3.1050,Plg26.0000°,Azm292.0000°; N 0.2290,Plg13.0000°,Azm28.0000°; P -3.3380,Plg61.0000°,Azm143.0000° $M_0$3.22200×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**21 16 51 08.5–2.0**	**37.98N–.05**	**142.05E–.09**	**25–14**	**3.6b**	**27**	**1-63**
JMA	III	21 16 51 10.0–.20	38.02N	141.99E	40–3	4.2		**¶600561018**
IDC	III	21 16 51 11.8–3.4	37.98N	141.99E	53–32	3.6,3.6		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=22.2km az=77.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 16 59 04.2–1.0**	**36.43N–.07**	**142.00E–.09**	**19**	**3.4b**	**13**	**1-64**
IDC	III	21 16 59 00.7–1.1	36.57N	142.24E	0	3.7,3.6		**¶17197705**
ISCJB	III	21 16 59 03.1–.00	36.35N–.06	141.97E–.10	19	3.3b,3.6		
JMA	III	21 16 59 06.6–.20	36.42N	141.89E	49	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=20.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.1km az=153.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 17 27 38.6–1.0**	**37.03N–.06**	**142.76E–.09**	**25**	**3.5b**	**17**	**2-61**
IDC	III	21 17 27 34.1–1.1	36.67N	143.92E	0	3.7,3.7L		**¶17197714**
JMA	III	21 17 27 56.1–.20	37.33N	141.79E	40–4	3.8,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=19.9km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 17 34 57.2–1.7**	**36.45N–.04**	**141.16E–.08**	**24–12**	**3.6b**	**21**	**1-60**
NIED	III	21 17 34 00	36.50N	141.10E	38	3.7W		**¶17197719**
IDC	III	21 17 34 53.2–.97	36.41N	141.27E	0	3.7,3.6		
ISCJB	III	21 17 34 55.9–1.1	36.40N–.04	141.22E–.08	29–7	3.5b,3.6		
JMA	III	21 17 34 57.8–.10	36.46N	141.10E	43–2	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ16.00000°,λ-45.00000°. NP2:ϕ_s289.00000°,δ79.00000°,λ-101.00000°. $M_0$4.73000×10^{14}
IDC Error ellipse: s-maj=26.9km s-min=18.8km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.8km az=6.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**III**	**21 17 52 39.9**	**36.25N**	**137.59E**	**3–1**	**1.4**		
								¶603049964

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 18 23 37.8–1.3**	**36.65N–.05**	**140.72E–.08**	**46–13**	**3.3b**	**20**	**0-57**
NIED	III	21 18 23 00	36.60N	140.80E	59	3.9W		**¶602679453**
JMA	III	21 18 23 36.6	36.60N	140.77E	45–1	3.8		
ISCJB	III	21 18 23 36.2–.65	36.61N–.04	140.81E–.06	48–5	3.5b,3.1s		
IDC	III	21 18 23 41.4–2.0	36.49N	140.50E	85–20	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s80.00000°,δ49.00000°,λ-32.00000°. NP2:ϕ_s192.00000°,δ66.00000°,λ-134.00000°. $M_0$7.45000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s359.00000°,δ75.00000°,λ160.00000°. NP2:ϕ_s94.00000°,δ71.00000°,λ15.00000°. Principal axes: T Plg24.0000°,Azm316.0000°; N Plg66.0000°,Azm144.0000°; P Plg3.0000°,Azm47.0000°
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.5km az=23.1.
IDC Error ellipse: s-maj=22.0km s-min=10.3km az=63.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 18 48 16.0–1.0**	**38.44N–.06**	**142.1E–.10**	**41**	**4.0b**	**23**	**1-117**
NIED	III	21 18 48 00	38.40N	142.20E	26	3.7W		**¶16480047**
IDC	III	21 18 48 10.2–1.1	38.36N	142.31E	0	3.9,3.9b		
JMA	III	21 18 48 14.1–.20	38.43N	142.20E	31–2	3.9,3.9b		
ISCJB	III	21 18 48 14.6–.73	38.42N–.05	142.17E–.07	41	3.9b,3.9b		
NEIC	III	21 18 48 15.3–2.1	38.34N	142.40E	40–18	4.0b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ41.00000°,λ-37.00000°. NP2:ϕ_s288.00000°,δ67.00000°,λ-125.00000°. $M_0$3.96000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=17.3km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=21.0.
NEIC Event type se. Error ellipse: s-maj=23.3km s-min=12.3km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 18 52 44.2–2.3**	**37.40N–.04**	**141.49E–.07**	**8–13**	**3.5b**	**25**	**1-57**
NIED	III	21 18 52 00	37.50N	141.30E	32	3.6W		**¶600561195**
IDC	III	21 18 52 42.6–2.3	37.48N	141.62E	0	3.6,3.6		
ISCJB	III	21 18 52 45.0–1.1	37.40N–.04	141.51E–.07	23–6	3.4b,3.6		
JMA	III	21 18 52 48.3–.10	37.45N	141.28E	27–1	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ60.00000°,λ-157.00000°. NP2:ϕ_s198.00000°,δ70.00000°,λ-32.00000°. $M_0$2.56000×10^{14}

IDC Error ellipse: s-maj=56.5km s-min=23.1km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.9km az=13.7.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**21 19 01 18.3–.34**	**36.82N–.04**	**143.22E–.03**	**32–1**	**4.9b,4.4s**	**503**	**2-153**
NIED	III	21 19 01 00	36.80N	143.20E	5	5.0W,4.4s		**¶600561200**
IDC	III	21 19 01 13.1–.36	36.71N	143.31E	0	4.6,4.5		
JMA	III	21 19 01 16.0–.30	36.82N	143.18E	46	4.9,4.5		
ISCJB	III	21 19 01 18.8–.17	36.84N–.03	143.06E–.02	41	4.8b,4.4s		
BJI	III	21 19 01 18.1	37.13N	143.08E	33	5.1b,4.8b		
GCMT	III	21 19 01 19.3–.30	36.79N	143.19E	12	5.0W,4.8b		
MOS	III	21 19 01 19.7–1.3	37.21N	143.11E	33	5.1b,4.4s		
NEIC	III	21 19 01 19.3–.44	36.68N	143.18E	37–4	5.1b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ23.00000°,λ-82.00000°. NP2:ϕ_s198.00000°,δ67.00000°,λ-93.00000°. $M_0$3.24000×10^{16}
IDC Error ellipse: s-maj=10.5km s-min=9.8km az=107.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=172.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c33; s96,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.03±.07 $M_{\theta\theta}$0.88±.07; $M_{\phi\phi}$2.15±.06; $M_{r\theta}$0.08±.24; $M_{\theta\phi}$1.03±.05; $M_{\phi r}$1.92±.24; Best double couple: NP1:ϕ_s196.00000°,δ62.00000°,λ-102.00000°. NP2:ϕ_s39.00000°,δ30.00000°,λ-70.00000°. Principal axes: T 3.2170,Plg16.0000°,Azm294.0000°; N 0.4650,Plg10.0000°,Azm201.0000°; P -3.6780,Plg71.0000°,Azm80.0000° $M_0$3.44700×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=105.8.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=151.0.

(460) Wyoming

ISC	**III**	**21 19 05 55.6–.78**	**43.76N–.04**	**105.28W–.04**	**0**		**68**	**1-90**
IDC	III	21 19 05 55.0–1.4	43.93N	105.52W	0	3.5,3.5b		**¶17197739**
NEIC	III	21 19 05 55.6–.46	43.80N	105.21W	0	3.1L,3.5b		
ISCJB	III	21 19 05 55.6–.27	43.74N–.03	105.33W–.03	0	3.6b,3.5b		

ISC Event type sm.
NEIC Event type fm. 59 km [37 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(229) Off east coast of Honshu

ISC	**III**	**21 19 24 26.1–.61**	**39.62N–.05**	**143.66E–.05**	**19–2**	**4.7b,4.3s**	**241**	**2-118**
ISCJB	III	21 19 24 21.8–1.2	39.58N–.03	143.61E–.04	0–7	4.7b,4.2s		**¶602680151**
JMA	III	21 19 24 22.1–.40	39.57N	143.74E	13	4.6,4.2s		
IDC	III	21 19 24 22.9–.50	39.51N	143.63E	0	4.4,4.3		
BJI	III	21 19 24 25.5	39.51N	143.54E	29	4.8b,4.7s		
NEIC	III	21 19 24 26.7–1.7	39.55N	143.58E	24–11	4.8b,4.7s		
MOS	III	21 19 24 27.3–1.1	39.69N	143.58E	33	4.9b,4.7s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.6km az=43.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=133.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.5km az=135.0.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=101.6.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 19 26 47.2–.92**	**36.74N–.03**	**140.49E–.04**	**10–6**	**4.5b,3.9s**	**80**	**0-97**
NIED	III	21 19 26 00	36.70N	140.70E	5	4.2W,3.9s		**¶16342194**
JMA	III	21 19 26 47.7	36.73N	140.59E	8–1	4.4,3.9s		
ISCJB	III	21 19 26 47.0–.48	36.70N–.03	140.65E–.04	20–3	4.4b,4.0s		
NEIC	III	21 19 26 51.9–.72	36.74N	140.42E	44–6	4.6b,4.0s		
IDC	III	21 19 26 52.0–2.1	36.74N	140.43E	43–20	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ42.00000°,λ-103.00000°. NP2:ϕ_s6.00000°,δ49.00000°,λ-78.00000°. $M_0$2.49000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=27.2.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.4km az=98.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=13.5km s-min=12.2km az=113.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 19 29 02.3–.76**	**39.59N–.04**	**142.12E–.07**	**51–6**	**4.4b**	**96**	**1-145**
NIED	III	21 19 29 00	39.60N	142.10E	56	4.7W		**¶16342195**
ISCJB	III	21 19 29 01.9–.59	39.61N–.03	142.12E–.06	61–4	4.5b		
JMA	III	21 19 29 02.2–.10	39.64N	142.16E	48–1	4.5		
NEIC	III	21 19 29 05.3–.66	39.62N	142.07E	77–5	4.8b		
IDC	III	21 19 29 06.2–2.0	39.61N	141.99E	85–18	4.3,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ17.00000°,λ93.00000°. NP2:ϕ_s2.00000°,δ73.00000°,λ89.00000°. $M_0$1.08000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.0km az=10.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=117.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.8km s-min=11.2km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 19 31 55.1–1.4**	**36.20N–.04**	**141.21E–.07**	**19–4**	**4.0b**	**31**	**1-82**
NIED	III	21 19 31 00	36.20N	141.30E	5	3.9W		**¶16480054**
IDC	III	21 19 31 52.4–1.0	36.21N	141.21E	0	4.1,4.0		
JMA	III	21 19 31 54.8–.10	36.15N	141.25E	44–2	4.1,4.0		
ISCJB	III	21 19 31 54.7–1.0	36.17N–.04	141.29E–.07	30–6	4.2b,4.0		
NEIC	III	21 19 31 58.0–1.8	36.15N	141.10E	41–14	4.6b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ14.00000°,λ-12.00000°. NP2:ϕ_s6.00000°,δ87.00000°,λ-104.00000°. $M_0$8.85000×10^{14}
IDC Error ellipse: s-maj=24.6km s-min=20.5km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.2km az=171.1.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=12.2km az=110.0.

(706) Northern Sumatera

ISC	**III**	**21 19 34 00.6–.38**	**2.27N–.05**	**96.32E–.05**	**30**	**4.8b**	**146**	**1-145**
IDC	III	21 19 33 55.9–.49	2.29N	96.33E	0	4.6,4.5		**¶16341511**
BJI	III	21 19 33 57.1	2.13N	96.45E	29	5.1b,5.0b		
ISCJB	III	21 19 33 58.8–.26	2.26N–.03	96.25E–.03	30	4.7b,4.3s		
NEIC	III	21 19 34 02.0–.84	2.27N	96.38E	44–7	4.7b,4.3s		
DJA	III	21 19 34 02.4–.40	2N–2.0	96E–4.0	10	5.4b,4.9b		
KLM	III	21 19 34 05.3	2.47N	96.52E	35	5.6s,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.7km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=40.9.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.1km az=47.0. Felt [III] on Pulau Simeulue.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 19 41 41.8–2.0**	**36.54N–.04**	**141.83E–.06**	**7–12**	**4.1b**	**55**	**1-75**
NIED	III	21 19 41 00	36.60N	141.70E	17	3.9W		**¶602679277**
IDC	III	21 19 41 40.9–.76	36.59N	141.83E	0	4.2L,4.1		
JMA	III	21 19 41 45.8–.20	36.59N	141.74E	52–4	4.1,4.1		
NEIC	III	21 19 41 45.7–3.3	36.51N	141.86E	34–23	4.3b,4.1		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ35.00000°,λ-101.00000°. NP2:ϕ_s295.00000°,δ56.00000°,λ-82.00000°. $M_0$7.85000×10^{14}
IDC Error ellipse: s-maj=22.1km s-min=15.0km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.1km az=62.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 19 54 54.9–1.2**	**38.76N–.05**	**142.39E–.09**	**27**	**3.5b**	**20**	**1-48**
NIED	III	21 19 54 00	38.80N	142.40E	32	3.8W		**¶17197744**
IDC	III	21 19 54 50.2–3.0	38.62N	142.54E	0	3.5,3.5b		
ISCJB	III	21 19 54 54.1–.95	38.77N–.05	142.50E–.08	27	3.4b,3.5b		
JMA	III	21 19 54 56.1–.20	38.80N	142.37E	32–3	3.6,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ43.00000°,λ128.00000°. NP2:ϕ_s109.00000°,δ57.00000°,λ60.00000°. $M_0$5.38000×10^{14}
IDC Error ellipse: s-maj=66.9km s-min=26.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.1km az=30.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 20 05 20.5–2.2**	**36.68N–.05**	**141.94E–.06**	**1–13**	**4.1b,3.5s**	**53**	**1-90**
NIED	III	21 20 05 00	36.70N	141.80E	14	4.0W,3.5s		**¶602679233**
IDC	III	21 20 05 20.5–.63	36.66N	141.90E	0	4.3,4.2L		
JMA	III	21 20 05 25.0–.20	36.70N	141.83E	51–4	4.3,4.2L		
NEIC	III	21 20 05 26.4–1.3	36.70N	141.95E	40–10	4.3b,4.2L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ12.00000°,λ-89.00000°. NP2:ϕ_s184.00000°,δ78.00000°,λ-90.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=14.6km az=119.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=8.9km az=138.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 20 15 50.7–1.5**	**36.28N–.04**	**141.10E–.07**	**23–12**	**3.5b**	**19**	**1-56**
NIED	III	21 20 15 00	36.20N	141.00E	35	3.8W		**¶17197749**
IDC	III	21 20 15 47.4–1.4	36.26N	141.13E	0	3.7,3.6		
ISCJB	III	21 20 15 50.6–.95	36.24N–.04	141.13E–.08	37–9	3.4b,3.6		
JMA	III	21 20 15 51.4–.10	36.23N	141.04E	46–2	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ7.00000°,λ136.00000°. NP2:ϕ_s30.00000°,δ85.00000°,λ85.00000°. $M_0$6.08000×10^{14}
IDC Error ellipse: s-maj=28.7km s-min=25.6km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.4km az=171.9.
JMA Event type fe.

(35) Near coast of northern California

ISC	**III**	**21 20 42 27.0–1.9**	**39.10N–.07**	**123.4W–.10**	**10**		**13**	**0-4**
NEIC	III	21 20 42 26.9	39.12N	123.42W	5	3.5W		**¶16499018**
ISCJB	III	21 20 42 26.2–1.4	39.11N–.08	123.5W–.10	10	3.5W		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Boonville and [II] at Comptche, Mendocino, Philo and Ukiah. Also felt at Albion, Fort Bragg, Santa Rosa, Sonoma and Willows. After NCEDC. Moment Tensor Solution. $M_0$2.00000×10^{14}
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 20 47 05.1–1.2**	**35.71N–.06**	**140.80E–.09**	**48–9**	**3.5b**	**17**	**0-56**
IDC	III	21 20 46 56.5–2.9	35.92N	141.38E	0	3.9,3.8		**¶17197753**
ISCJB	III	21 20 47 04.1–.94	35.69N–.06	140.8E–.10	61–7	3.4b,3.8		
JMA	III	21 20 47 05.7–.10	35.75N	140.63E	47–1	3.1,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=69.7km s-min=23.5km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=8.0km az=155.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 21 21 49.0–1.7**	**36.46N–.05**	**141.16E–.08**	**26–12**	**3.5b**	**18**	**0-56**
IDC	III	21 21 21 43.5–2.6	36.55N	141.61E	0	3.6,3.6		**¶17197760**
ISCJB	III	21 21 21 48.3–1.3	36.41N–.04	141.21E–.08	30–6	3.5b,3.6		
JMA	III	21 21 21 50.1–.10	36.46N	141.10E	44–1	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=59.6km s-min=28.3km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=7.3.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**21 21 23 15.8–.46**	**37.76N–.05**	**143.82E–.05**	**35**	**4.6b,4.1s**	**199**	**2-88**
IDC	III	21 21 23 10.6–.61	37.66N	143.80E	0	4.4,4.3		**¶602678983**
JMA	III	21 21 23 13.9–.30	37.75N	143.65E	44	4.5,4.3		
BJI	III	21 21 23 13.4	38.07N	143.84E	25	4.9b,4.6b		
ISCJB	III	21 21 23 15.0–.28	37.88N–.03	143.67E–.03	33	4.5b,4.0s		
MOS	III	21 21 23 15.8–1.0	38.01N	143.67E	33	4.9b,4.0s		
NEIC	III	21 21 23 16.1–.25	37.75N	143.75E	35	4.7b,4.0s		

ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=12.9km az=153.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=163.2.
MOS Error ellipse: s-maj=7.7km s-min=4.8km az=106.1.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=141.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 21 23 56.1–1.9**	**36.60N–.04**	**141.10E–.05**	**5–11**	**4.6b,3.8s**	**103**	**0-95**
IDC	III	21 21 23 55.3–.50	36.53N	141.24E	0	4.7,4.5		**¶16342196**
ISCJB	III	21 21 23 55.7–.22	36.53N–.03	141.06E–.04	10	4.6b,3.8s		
NEIC	III	21 21 23 58.0–4.5	36.56N	141.02E	16–28	4.7b,3.8s		
NIED	III	21 21 24 00	36.70N	141.00E	59	4.6W,3.8s		
JMA	III	21 21 24 01.6	36.73N	140.94E	52–1	4.3,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=13.8km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.9km az=151.7.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.5km az=104.0. Recorded [3 JMA] in Fukushima.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ40.00000°,λ-163.00000°. NP2:ϕ_s62.00000°,δ79.00000°,λ-51.00000°. $M_0$8.75000×10^{15}
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**21 21 58 51.7–2.1**	**37.73N–.05**	**142.28E–.06**	**3–12**	**4.4b,3.0s**	**110**	**1-146**
NIED	III	21 21 58 00	37.70N	142.30E	17	4.2W,3.0s		**¶16462072**
IDC	III	21 21 58 51.0–.59	37.72N	142.35E	0	4.3,4.2		
ISCJB	III	21 21 58 51.9–1.2	37.74N–.04	142.36E–.05	16–7	4.3b,3.1s		
JMA	III	21 21 58 52.7–.30	37.74N	142.30E	21–5	4.2,3.1s		
NEIC	III	21 21 58 56.4–.61	37.76N	142.38E	35–5	4.6b,3.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ3.00000°,λ11.00000°. NP2:ϕ_s31.00000°,δ89.00000°,λ93.00000°. $M_0$2.13000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=13.4km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.3km az=42.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=130.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**21 23 15 58.1–2.7**	**38.77N–.06**	**142.2E–.10**	**28–16**	**3.6b**	**21**	**1-73**
NIED	III	21 23 15 00	38.80N	142.20E	32	3.6W		**¶17197774**
IDC	III	21 23 15 58.8–1.1	39.54N	141.77E	0	3.7,3.6b		
JMA	III	21 23 15 58.8–.10	38.77N	142.19E	31–2	3.7,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ27.00000°,λ-79.00000°. NP2:ϕ_s244.00000°,δ63.00000°,λ-95.00000°. $M_0$3.28000×10^{14}
IDC Error ellipse: s-maj=32.3km s-min=20.1km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**21 23 48 27.0–.10**	**38.39N**	**141.60E**	**57–1**	**3.5**		
NIED	III	21 23 48 00	38.40N	141.60E	50	4.3W		**¶600561682**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ15.00000°,λ180.00000°. NP2:ϕ_s181.00000°,δ90.00000°,λ75.00000°. $M_0$3.57000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 00 08 53.4–1.5**	**37.26N–.06**	**141.5E–.20**	**39–8**	**3.6b**	**16**	**1-57**
NIED	III	22 00 08 00	37.30N	141.30E	50	3.6W		**¶602684746**
IDC	III	22 00 08 50.8–2.0	37.03N	140.61E	0	3.8,3.7		
ISCJB	III	22 00 08 53.3–1.7	37.25N–.05	141.4E–.20	54–9	3.6b,3.7		
JMA	III	22 00 08 54.3–.20	37.28N	141.35E	51–2	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s10.00000°,δ71.00000°,λ80.00000°. $M_0$2.48000×10^{14}
IDC Error ellipse: s-maj=38.7km s-min=24.4km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=25.1km s-min=8.4km az=1.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**22 00 19 08.1–.10**	**37.10N**	**141.12E**	**51–1**	**3.6**		
NIED	III	22 00 19 00	37.10N	141.10E	29	3.9W		**¶600561801**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ60.00000°,λ175.00000°. NP2:ϕ_s212.00000°,δ86.00000°,λ30.00000°. $M_0$7.93000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 00 33 10.9–.92**	**36.50N–.04**	**140.99E–.07**	**48–8**	**4.0b**	**56**	**0-79**
NIED	III	22 00 33 00	36.50N	140.90E	53	3.7W		**¶16342198**
NEIC	III	22 00 33 09.8–.29	36.60N	141.12E	35	4.7b		
ISCJB	III	22 00 33 10.0–.51	36.50N–.03	141.00E–.05	55–4	4.1b		
IDC	III	22 00 33 10.2–3.5	36.60N	141.09E	39–30	3.9,3.8L		

JMA III 22 00 33 12.3–.10 36.54N 140.84E 51–1 3.7,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ25.00000°,λ22.00000°. NP2:ϕ_s15.00000°,δ81.00000°,λ114.00000°. $M_0$4.49000×10^{14}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=8.4.
IDC Error ellipse: s-maj=33.6km s-min=18.8km az=67.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 01 13 45.5–.43**	**36.12N–.03**	**141.94E–.04**	**27–2**	**5.1b,4.9s**	**616**	**1-127**	
NIED	III	22 01 13 00	36.10N	141.90E	23	5.1W,4.9s			**¶16341525**
ISCJB	III	22 01 13 43.9–.76	36.09N–.02	141.83E–.02	23–5	5.0b,4.8s			
BJI	III	22 01 13 44.6	36.12N	141.68E	22	5.2b,5.1b			
JMA	III	22 01 13 44.8–.20	36.09N	141.94E	69–4	5.0,5.1b			
MOS	III	22 01 13 46.8–.88	36.47N	141.84E	32	5.3b,5.1s			
IDC	III	22 01 13 47.0–2.3	36.03N	141.91E	39–19	4.8,4.7			
NEIC	III	22 01 13 47.9–.61	36.06N	141.80E	42–5	5.1b,4.7			
GCMT	III	22 01 13 47.9–.30	36.11N	142.25E	24	5.0W,4.7			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ21.00000°,λ4.00000°. NP2:ϕ_s80.00000°,δ88.00000°,λ111.00000°. $M_0$4.81000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=143.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=108.6.
IDC Error ellipse: s-maj=12.6km s-min=10.4km az=117.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c59; s66,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.05±.13 $M_{\theta\theta}$1.44±.09; $M_{\phi\phi}$-1.39±.11; $M_{r\theta}$3.62±.13; $M_{\theta\phi}$-1.55±.07; $M_{\phi r}$0.86±.16; Best double couple: NP1:ϕ_s253.00000°,δ89.00000°,λ-119.00000°. NP2:ϕ_s161.00000°,δ29.00000°,λ-2.00000°. Principal axes: T 4.4710,Plg37.0000°,Azm9.0000°; N -0.4260,Plg29.0000°,Azm253.0000°; P -4.0410,Plg39.0000°,Azm137.0000° $M_0$4.25600×10^{16}

(228) Near east coast of eastern Honshu

JMA	**III**	**22 01 17 11.1–.10**	**38.77N**	**142.18E**	**31–2**	**3.7**			**¶602685254**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 01 19 50.0–.96**	**36.33N–.07**	**141.07E–.06**	**29–5**	**4.3b**	**69**	**0-118**	
NIED	III	22 01 19 00	36.30N	141.00E	29	4.1W			**¶16350001**
BJI	III	22 01 19 45.7	36.30N	141.30E	15	4.9b,4.8			
JMA	III	22 01 19 50.7–.10	36.34N	140.97E	46–1	4.2,4.8			
ISCJB	III	22 01 19 50.2–.98	36.35N–.05	141.03E–.07	46–6	4.7s,4.2b			
IDC	III	22 01 19 53.7–2.5	36.29N	140.93E	63–21	4.1,4.0			
NEIC	III	22 01 19 53.1–.91	36.36N	140.98E	58–6	4.7b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ34.00000°,λ162.00000°. NP2:ϕ_s24.00000°,δ80.00000°,λ57.00000°. $M_0$1.49000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.2km az=41.2.
IDC Error ellipse: s-maj=18.5km s-min=15.0km az=97.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=135.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 02 11 49.9–.58**	**39.02N–.04**	**142.71E–.04**	**27–3**	**4.8b,4.2s**	**576**	**1-159**	
NIED	III	22 02 11 00	39.10N	142.70E	5	4.8W,4.2s			**¶602685083**
IDC	III	22 02 11 46.0–.45	39.01N	142.70E	0	4.7,4.6			
JMA	III	22 02 11 47.2–.20	39.07N	142.72E	23–2	4.7,4.6			
ISCJB	III	22 02 11 47.3–.68	39.02N–.03	142.69E–.02	18–4	4.8b,4.2s			
MOS	III	22 02 11 49.4–.96	39.06N	142.73E	33	5.1b,4.1s			
BJI	III	22 02 11 50.2	39.01N	142.63E	39	5.0b,4.8b			
NEIC	III	22 02 11 52.5–.59	39.01N	142.71E	47–5	4.8b,4.8b			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ46.00000°,λ-111.00000°. NP2:ϕ_s131.00000°,δ47.00000°,λ-70.00000°. $M_0$1.67000×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=10.9km az=121.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=159.8.
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=103.9.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=145.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 02 53 45.2–2.0**	**39.24N–.04**	**142.39E–.06**	**23–14**	**4.4b**	**95**	**1-145**	
NIED	III	22 02 53 00	39.30N	142.40E	32	4.4W			**¶600562054**
ISCJB	III	22 02 53 45.8–.68	39.25N–.03	142.36E–.05	41–6	4.3b,3.0s			
JMA	III	22 02 53 45.6–.10	39.27N	142.36E	30–1	4.3,3.0s			
NEIC	III	22 02 53 47.6–.73	39.24N	142.40E	43–6	4.4b,3.0s			
IDC	III	22 02 53 49.5–2.5	39.24N	142.29E	57–22	4.2,4.1			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ48.00000°,λ-32.00000°. NP2:ϕ_s247.00000°,δ66.00000°,λ-134.00000°. $M_0$4.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.1km az=25.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=127.0.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=120.0.

(230) Near south coast of eastern Honshu

ISC	**III**	**22 03 31 32.4–1.0**	**34.24N–.04**	**139.25E–.07**	**10–6**		**15**	**0-54**	
IDC	III	22 03 31 31.3–2.3	33.99N	138.96E	0	3.6,3.4L			**¶17197910**
JMA	III	22 03 31 31.9	34.24N	139.24E	11–1	3.0,3.4L			
ISCJB	III	22 03 31 32.0–.84	34.23N–.05	139.24E–.09	11–5	3.3b,3.4L			

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 03 38 35.5–.28**	**35.25N–.03**	**141.08E–.03**	**21–2**	**5.5b,5.5s**	**1564**	**0-162**	
NIED	III	22 03 38 00	35.30N	141.20E	20	5.7W,5.5s			**¶602443780**
BJI	III	22 03 38 31.1	35.30N	141.20E	16	5.8s,5.7			
IDC	III	22 03 38 32.5–.33	35.23N	141.06E	0	5.4s,5.4			
NEIC	III	22 03 38 34.0–.00	35.03N	141.05E	20	5.4s,5.4			
JMA	III	22 03 38 34.7–.20	35.26N	141.24E	37–3	5.9,5.4			
ISCJB	III	22 03 38 35.0–.46	35.18N–.02	141.01E–.02	25–3	5.5s,5.5b			
MOS	III	22 03 38 35.3–.91	35.19N	141.04E	33	5.8b,5.6s			
NEIC	III	22 03 38 35.8–.08	35.21N	141.00E	20	5.7,5.7W			
GCMT	III	22 03 38 35.8–.10	35.18N	140.99E	18–0	5.7W,5.7W			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ37.00000°,λ-164.00000°. NP2:ϕ_s225.00000°,δ81.00000°,λ-54.00000°. $M_0$3.60000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=7.9km az=88.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00 $M_{\theta\theta}$-2.00 $M_{\phi\phi}$1.00 $M_{r\theta}$3.00 $M_{\theta\phi}$0.50 $M_{\phi r}$1.60 Best double couple: NP1:ϕ_s65.00000°,δ81.00000°,λ67.00000°. NP2:ϕ_s315.00000°,δ23.00000°,λ159.00000°. Principal axes: T 3.8000,Plg48.0000°,Azm311.0000°; N 0.1000,Plg22.0000°,Azm68.0000°; P -3.9000,Plg33.0000°,Azm173.0000° $M_0$4.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=159.8.
MOS Error ellipse: s-maj=7.6km s-min=4.4km az=112.5.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=138.0. Felt at Tokyo and Yokosuka. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}0.77 $M_{\theta\theta}$-2.41 $M_{\phi\phi}$1.64 $M_{r\theta}$2.20 $M_{\theta\phi}$1.07 $M_{\phi r}$1.25 Best double couple: NP1:ϕ_s325.00000°,δ41.00000°,λ167.00000°. NP2:ϕ_s65.00000°,δ82.00000°,λ50.00000°. Principal axes: T 3.3800,Plg39.0000°,Azm298.0000°; N 0.1800,Plg40.0000°,Azm72.0000°; P -3.5700,Plg26.0000°,Azm185.0000° $M_0$3.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c201; s130,c302;Duration: 1ŝ7 Moment tensor: Scale 10^{17}Nm; M_{rr}1.29±.03 $M_{\theta\theta}$-2.53±.03; $M_{\phi\phi}$1.24±.03; $M_{r\theta}$3.08±.14; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$1.39±.09; Best double couple: NP1:ϕ_s68.00000°,δ79.00000°,λ65.00000°. NP2:ϕ_s316.00000°,δ27.00000°,λ155.00000°. Principal axes: T 3.8630,Plg50.0000°,Azm310.0000°; N 0.3870,Plg25.0000°,Azm73.0000°; P -4.2490,Plg29.0000°,Azm178.0000° $M_0$4.05600×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 03 50 07.5–.85**	**37.46N–.04**	**141.47E–.07**	**35**	**3.8b**	**29**	**1-74**	
ISCJB	III	22 03 50 05.7–.62	37.43N–.03	141.52E–.06	35	3.7b			**¶17197912**
JMA	III	22 03 50 07.5–.10	37.46N	141.38E	35–1	4.0			
IDC	III	22 03 50 09.0–3.4	37.41N	141.35E	46–31	3.8,3.6			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=6.1.
JMA Event type fe.
IDC Error ellipse: s-maj=34.3km s-min=15.9km az=73.0.

(227) Eastern Honshu

ISC	**III**	**22 04 25 33.0–.82**	**36.10N–.05**	**139.82E–.05**	**51–7**	**3.9b**	**29**	**0-77**	
NIED	III	22 04 25 00	36.20N	139.90E	29	4.0W			**¶600562143**
ISCJB	III	22 04 25 32.0–.46	36.08N–.04	139.84E–.06	60–3	3.8b			
JMA	III	22 04 25 33.3–.10	36.13N	139.81E	51–1	3.9			
IDC	III	22 04 25 33.6–1.7	36.04N	139.74E	59–17	3.9,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ40.00000°,λ-42.00000°. NP2:ϕ_s200.00000°,δ64.00000°,λ-122.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.8km az=165.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s345.00000°,δ87.00000°,λ84.00000°. NP2: ϕ_s233.00000°,δ7.00000°,λ157.00000°. Principal axes: T Plg47.0000°,Azm249.0000°; N Plg6.0000°,Azm346.0000°; P Plg42.0000°,Azm81.0000°
IDC Error ellipse: s-maj=20.1km s-min=10.8km az=71.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 04 33 55.4–1.7**	**36.53N–.10**	**141.1E–.10**	**32**		**10**	**0-57**	
JMA	III	22 04 33 54.6–.10	36.49N	141.08E	20–1	3.6			**¶602685382**
ISCJB	III	22 04 33 54.4–1.5	36.48N–.09	141.1E–.10	32	3.3b			
IDC	III	22 04 33 54.1–3.4	36.05N	141.48E	0	3.6,3.3			

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=12.2km az=141.4.
IDC Error ellipse: s-maj=92.4km s-min=30.9km az=54.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 04 35 39.7–2.1**	**39.05N–.05**	**142.49E–.08**	**1–12**	**3.7b**	**19**	**1-63**	
ISCJB	III	22 04 35 40.3–1.8	39.02N–.05	142.6E–.10	15–12	3.6b			**¶17197923**
JMA	III	22 04 35 42.6–.20	39.07N	142.43E	28–2	4.1			
IDC	III	22 04 35 47.4–4.4	38.95N	142.39E	70–42	3.6,3.5			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=7.2km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.0km s-min=18.8km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 04 44 20.3–.41**	**35.23N–.04**	**141.22E–.05**	**35**	**4.6b,4.3s**	**123**	**1-118**	
NIED	III	22 04 44 00	35.20N	141.20E	23	4.6W,4.3s			**¶16341533**
BJI	III	22 04 44 16.3	35.20N	141.20E	26	5.1b,4.7b			
JMA	III	22 04 44 18.8–.20	35.28N	141.21E	33–3	4.5,4.7b			
NEIC	III	22 04 44 18.2–2.5	35.23N	141.15E	15–15	4.7b,4.7b			
ISCJB	III	22 04 44 19.2–.23	35.15N–.03	141.15E–.04	35	4.6b,4.3s			
IDC	III	22 04 44 20.9–3.6	35.15N	141.03E	33–28	4.4,4.4			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ29.00000°,λ172.00000°. NP2:ϕ_s53.00000°,δ86.00000°,λ61.00000°. $M_0$8.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.3km az=111.0. Recorded [1 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.0km az=30.6.
IDC Error ellipse: s-maj=15.0km s-min=12.0km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 04 58 30.4–1.4**	**38.88N–.06**	**142.1E–.10**	**39–6**	**3.7b**	**22**	**1-63**	
IDC	III	22 04 58 22.6–2.4	39.05N	142.76E	0	3.8,3.6			**¶17197926**
ISCJB	III	22 04 58 29.8–1.2	38.87N–.04	142.1E–.10	50–10	3.6b,3.6			
JMA	III	22 04 58 31.0–.10	38.89N	142.07E	40–2	3.8,3.6			

ISC Event type ke.
IDC Error ellipse: s-maj=66.9km s-min=25.8km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=6.8km az=9.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 05 09 34.0–2.1**	**39.05N–.06**	**142.38E–.09**	**26–14**	**3.8b**	**26**	**1-73**	
JMA	III	22 05 09 34.2–.10	39.08N	142.38E	35–2	4.1			**¶17197927**
ISCJB	III	22 05 09 34.2–1.3	39.06N–.05	142.4E–.10	45–10	3.7b			
IDC	III	22 05 09 38.4–3.0	39.06N	142.34E	67–27	3.7,3.6			

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.3km az=10.7.
IDC Error ellipse: s-maj=22.9km s-min=15.6km az=105.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**22 05 34 06.0–.10**	**37.27N**	**141.12E**	**26–1**	**3.7**			**¶602684490**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 05 59 37.3–.60**	**35.66N–.04**	**141.74E–.03**	**40–5**	**5.0b,4.9s**	**930**	**1-154**	
NIED	III	22 05 59 00	35.80N	141.80E	17	5.0W,4.9s			**¶16341536**
BJI	III	22 05 59 31.6	35.82N	141.84E	21	5.1b,5.0s			
ISCJB	III	22 05 59 33.6–.82	35.65N–.02	141.69E–.02	24–5	5.0b,4.8s			
JMA	III	22 05 59 34.4–.20	35.80N	141.82E	39–3	5.1,4.8s			
IDC	III	22 05 59 37.6–1.7	35.69N	141.67E	44–16	4.8,4.7			
MOS	III	22 05 59 37.9–.79	36.16N	141.62E	39	5.3b,5.0s			
GCMT	III	22 05 59 38.5–.40	35.73N	141.79E	60–2	5.1W,5.0s			
NEIC	III	22 05 59 38.5–.49	35.69N	141.59E	49–4	5.1b,5.0s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ21.00000°,λ-146.00000°. NP2:ϕ_s239.00000°,δ79.00000°,λ-73.00000°. $M_0$3.80000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=163.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.0km s-min=8.4km az=87.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=110.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c32; s75,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.02±.22 $M_{\theta\theta}$0.53±.32; $M_{\phi\phi}$-1.55±.30; $M_{r\theta}$-2.48±.11; $M_{\theta\phi}$-4.26±.22; $M_{\phi r}$-1.85±.10; Best double couple: NP1:ϕ_s81.00000°,δ88.00000°,λ-149.00000°. NP2:ϕ_s350.00000°,δ59.00000°,λ-2.00000°. Principal axes: T 4.1740,Plg20.0000°,Azm211.0000°; N 1.9750,Plg59.0000°,Azm84.0000°; P -6.1510,Plg23.0000°,Azm310.0000° $M_0$5.16300×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=138.0.

(43) Southern California

ISC	**III**	**22 06 26 10.7–.97**	**33.98N–.02**	**118.81W–.02**	**10–7**		**60**	**0-4**	
NEIC	III	22 06 26 11.0	33.99N	118.81W	2	3.3L			**¶16951381**
ISCJB	III	22 06 26 10.3–.36	33.98N–.02	118.81W–.02	8–2	3.3L			

ISC Event type fe.
NEIC Event type fe. Felt [III] at Malubu, Manhattan Beach, Pacific Palisades and Sherman Oaks and [II] in the Camarillo-Moorpark-Los Angeles area. Felt in the Whittier-Ventura area and as far as Goleta and Mission Viejo. After PAS.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 06 26 18.7–1.6**	**36.75N–.07**	**141.3E–.10**	**33**		**13**	**1-57**	
IDC	III	22 06 26 12.0–2.9	36.97N	141.60E	0	3.8,3.6b			**¶17197941**
ISCJB	III	22 06 26 18.5–1.4	36.71N–.06	141.3E–.10	33	3.5b,3.6b			
JMA	III	22 06 26 21.5–.10	36.79N	141.01E	53–1	3.5,3.6b			

ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=34.5km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=8.4km az=10.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 07 12 22.4–1.9**	**38.31N–.05**	**142.12E–.07**	**15–11**	**3.6b**	**31**	**1-89**	
JMA	III	22 07 12 24.4–.10	38.33N	142.13E	38–2	4.2			**¶602684297**
IDC	III	22 07 12 29.2–3.4	38.30N	142.14E	72–31	3.6,3.5			

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.8km s-min=18.5km az=87.0.

(229) Off east coast of Honshu

ISC	**III**	**22 07 18 46.5–.33**	**37.22N–.03**	**144.05E–.03**	**16–1**	**6.3b,6.2s**	**2404**	**2-163**	
NIED	III	22 07 18 00	37.10N	144.20E	8	6.3W,6.2s			**¶602684288**

JMA III 22 07 18 40.8–.20 37.09N 144.25E 28 6.7,6.2s
IDC III 22 07 18 42.4–.31 37.10N 144.13E 0 6.2,6.2s
BJI III 22 07 18 44.3 37.25N 144.05E 20 6.7s,6.6b
ISCJB III 22 07 18 44.5–.07 37.26N–.01 144.07E–.01 15 6.2s,6.1b
MOS III 22 07 18 45.4–1.1 37.35N 144.05E 20 6.5b,6.3s
GCMT III 22 07 18 45.4–.00 37.11N 144.00E 12–0 6.4W,6.3s
NEIC III 22 07 18 45.4–.08 37.24N 144.00E 11 6.5W,6.4W
NEIC III 22 07 18 47.0–.00 37.05N 144.16E 15 6.5W,6.4W
NEIC III 22 07 19 07.0–.00 37.70N 144.08E 21 6.5W,6.4W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ42.00000°,λ-99.00000°. NP2:ϕ_s41.00000°,δ49.00000°,λ-82.00000°. $M_0$3.43000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=8.8km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.3km az=164.9.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=105.1.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c336; s145,c627;Duration: 3s9 Moment tensor: Scale 10^{18} Nm; M_{rr}-4.82±.02 $M_{\theta\theta}$1.86±.02; $M_{\phi\phi}$2.96±.02; $M_{r\theta}$0.14±.04; $M_{\theta\phi}$2.57±.01; $M_{\phi r}$1.61±.05; Best double couple: NP1:ϕ_s209.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s49.00000°,δ38.00000°,λ-74.00000°. Principal axes: T 5.2190,Plg8.0000°,Azm308.0000° ; N -0.0580,Plg10.0000°,Azm216.0000°; P -5.1610,Plg77.0000°,Azm75.0000° $M_0$5.19000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=147.0. Felt [III] at Tokyo. Also felt at Misawa, Otawara, Yokosuka and Zama. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.20000×10^{19} Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.26 $M_{\theta\theta}$0.49 $M_{\phi\phi}$1.77 $M_{r\theta}$-0.71 $M_{\theta\phi}$2.43 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s55.00000°,δ54.00000°,λ-66.00000°. NP2:ϕ_s197.00000° ,δ42.00000°,λ-120.00000°. Principal axes: T 3.7100,Plg6.0000°,Azm128.0000° ; N -1.2400,Plg20.0000°,Azm220.0000°; P -2.4700,Plg69.0000°,Azm21.0000° $M_0$3.30000×10^{18}
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.43 $M_{\theta\theta}$2.11 $M_{\phi\phi}$3.32 $M_{r\theta}$2.15 $M_{\theta\phi}$2.17 $M_{\phi r}$-0.95 Best double couple: NP1:ϕ_s236.00000° ,δ51.00000°,λ-65.00000°. NP2:ϕ_s20.00000°,δ45.00000°,λ-117.00000°. Principal axes: T 5.0000,Plg3.0000°,Azm308.0000°; N 1.2300,Plg18.0000°,Azm40.0000° ; P -6.2300,Plg70.0000°,Azm209.0000° $M_0$5.70000×10^{18}
NEIC Event type se. Moment Tensor Solution. s94 Moment tensor: Scale 10^{18}Nm; M_{rr}-6.81 $M_{\theta\theta}$2.61 $M_{\phi\phi}$4.20 $M_{r\theta}$5.15 $M_{\theta\phi}$2.91 $M_{\phi r}$-3.55 Best double couple: NP1:ϕ_s246.00000° ,δ54.00000°,λ-52.00000°. NP2:ϕ_s12.00000°,δ50.00000°,λ-131.00000°. Principal axes: T 6.4000,Plg3.0000°,Azm310.0000°; N 4.0000,Plg30.0000°,Azm41.0000° ; P -10.4000,Plg60.0000°,Azm216.0000° $M_0$8.40000×10^{18}

(228) Near east coast of eastern Honshu

JMA III 22 07 25 59.8–.10 38.41N 142.16E 38–2 4.3 ¶603049968

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(135) Near coast of central Chile

ISC III 22 07 32 47.2–1.3 33.69S–.03 71.75W–.05 13–8 4.7b 89 1-154
IDC III 22 07 32 45.6–.85 33.56S 71.62W 0 4.2,4.1 **¶16449008**
ISCJB III 22 07 32 47.9–.75 33.69S–.03 71.81W–.04 27–5 4.8b,4.1
NEIC III 22 07 32 48.0 33.75S 71.75W 18 4.8b,4.3L
GUC III 22 07 32 48.9–.80 33.75S 71.76W 18–13 4.3L,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=31.5km s-min=18.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=25.9.
NEIC Event type fe. Felt [IV] at Litueche, Navidad and San Antonio; [III] at El Quisco, El Tabo and La Estrella; [II] at Curico, Paredones, Rancagua and Talca. After GUC.
GUC Error ellipse: s-maj=2.8km s-min=4.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 22 07 41 26.0–.38 35.98N–.04 141.45E–.05 26 4.7b 164 1-152
ISCJB III 22 07 41 24.5–.20 35.96N–.03 141.47E–.03 26 4.6b,4.2s **¶16342427**
JMA III 22 07 41 25.9–.20 36.03N 141.52E 48–3 4.2,4.2s
IDC III 22 07 41 27.0–2.9 35.95N 141.42E 36–24 4.5,4.4
BJI III 22 07 41 27.1 35.94N 141.12E 35 5.0s,4.9b
NEIC III 22 07 41 28.7–.53 36.00N 141.37E 46–4 4.7b,4.9b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.6km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=12.7km az=73.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.4km az=148.0.

(228) Near east coast of eastern Honshu

ISC III 22 08 03 06.5–.94 35.94N–.05 141.04E–.08 10 3.4b 15 0-79
ISCJB III 22 08 03 04.7–.79 35.93N–.05 141.13E–.07 10 3.4b **¶600562349**
IDC III 22 08 03 04.8–.94 35.86N 141.06E 0 3.6,3.5
JMA III 22 08 03 06.6–.10 35.93N 141.05E 13–2 3.8,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.7km az=169.1.
IDC Error ellipse: s-maj=25.7km s-min=23.5km az=71.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 22 08 26 47.0–2.1 38.56N–.06 142.10E–.09 9–11 3.6b 25 1-68
JMA III 22 08 26 52.1–.10 38.63N 142.03E 39–2 3.7 **¶600562386**
IDC III 22 08 26 55.0–3.9 39.00N 141.81E 45–38 3.6,3.6L
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=17.1km az=87.0.

(228) Near east coast of eastern Honshu

ISC III 22 08 33 09.4–.74 36.89N–.04 141.16E–.04 48–6 4.8s,4.7b 617 0-152
NIED III 22 08 33 00 36.80N 141.20E 44 4.8W,4.7b **¶602443785**
JMA III 22 08 33 08.1–.10 36.82N 141.18E 47–1 4.8,4.7b
BJI III 22 08 33 08.9 36.90N 141.00E 57 5.1b,5.0s
MOS III 22 08 33 08.6–.90 37.12N 141.03E 44 5.0b,5.0s
ISCJB III 22 08 33 09.3–.34 36.92N–.03 141.01E–.03 56–2 4.8s,4.7b
NEIC III 22 08 33 11.9–.50 36.95N 141.00E 66–4 4.7b,4.7b
IDC III 22 08 33 12.3–1.6 36.97N 141.07E 71–13 4.6s,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s59.00000°,δ71.00000°,λ96.00000°. $M_0$1.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=98.9.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=153.3.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=150.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=11.4km s-min=9.4km az=126.0.

(274) Southern Sumatera

ISC III 22 08 38 38.9–.69 3.63S–.05 102.09E–.05 103–5 4.5b 135 1-150
BJI III 22 08 38 35.3 3.70S 102.00E 94 5.2b,4.7b **¶16341543**
ISCJB III 22 08 38 37.6–.34 3.64S–.04 102.12E–.04 108–2 4.5b,4.7b
DJA III 22 08 38 38.7–.20 4S–4.0 102E–3.0 90–5 5.5b,5.0
NEIC III 22 08 38 38.1–.58 3.61S 102.14E 97–4 4.8b,5.0
IDC III 22 08 38 39.7–1.5 3.53S 102.23E 107–12 4.4,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.4km az=43.9.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=3.9km az=51.0. Felt [II] at Kapahiang.
IDC Error ellipse: s-maj=18.5km s-min=9.2km az=62.0.

(228) Near east coast of eastern Honshu

ISC III 22 09 19 05.3–.32 37.37N–.02 141.79E–.03 28–1 6.0s,5.9b 2008 1-161
NIED III 22 09 19 00 37.40N 141.90E 44 6.1W,5.9b **¶16342199**
BJI III 22 09 19 00.7 37.25N 141.95E 20 6.1s,5.9b
IDC III 22 09 19 01.1–.34 37.33N 141.85E 0 6.0,6.0s
ISCJB III 22 09 19 04.5–.56 37.33N–.02 141.81E–.01 30–3 6.0s,5.8b
MOS III 22 09 19 04.4–.97 37.46N 141.92E 33 6.0b,5.9s
JMA III 22 09 19 05.2–.20 37.32N 141.91E 43–4 6.4,5.9s
NEIC III 22 09 19 05.0–.00 37.33N 141.86E 27 6.4,5.9s
GCMT III 22 09 19 06.2–.10 37.38N 141.78E 30–0 6.2W,5.9s
NEIC III 22 09 19 06.2–.07 37.33N 141.79E 31 6.1W,6.0W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ176.00000°. NP2:ϕ_s281.00000°,δ88.00000°,λ59.00000°. $M_0$1.65000×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=160.3.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16 $M_{\theta\theta}$0.17 $M_{\phi\phi}$-0.01 $M_{r\theta}$-1.78 $M_{\theta\phi}$0.39 $M_{\phi r}$0.46 Best double couple: NP1:ϕ_s102.00000° ,δ89.00000°,λ-77.00000°. NP2:ϕ_s198.00000°,δ12.00000°,λ-173.00000°. Principal axes: T 1.8000,Plg42.0000°,Azm180.0000°; N 0.1700,Plg12.0000°,Azm282.0000° ; P -1.9700,Plg44.0000°,Azm24.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c271; s139,c431;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.20±.01 $M_{\theta\theta}$0.44±.01; $M_{\phi\phi}$-0.23±.01; $M_{r\theta}$-2.45±.05; $M_{\theta\phi}$0.65±.01; $M_{\phi r}$0.52±.02; Best double couple: NP1:ϕ_s101.00000°,δ88.00000°,λ-74.00000°. NP2:ϕ_s198.00000° ,δ16.00000°,λ-172.00000°. Principal axes: T 2.5990,Plg41.0000°,Azm176.0000° ; N 0.0330,Plg16.0000°,Azm280.0000°; P -2.6320,Plg45.0000°,Azm27.0000° $M_0$2.61600×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=141.0. Felt at Ayase, Chiba, Fujisawa, Ichinoseki, Narita, Otawara and Tokyo. Recorded [4 JMA] in Fukushima, Miyagi and Tochigi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s72 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.31 $M_{\theta\theta}$0.15 $M_{\phi\phi}$0.16 $M_{r\theta}$-1.23 $M_{\theta\phi}$0.45 $M_{\phi r}$0.29 Best double couple: NP1: ϕ_s199.00000°,δ20.00000°,λ-16.00000°. NP2:ϕ_s95.00000°,δ85.00000°,λ-70.00000°. Principal axes: T 1.2000,Plg37.0000°,Azm168.0000°; N 0.2900,Plg20.0000°,Azm274.0000° ; P -1.4900,Plg46.0000°,Azm25.0000° $M_0$1.40000×10^{18}

(228) Near east coast of eastern Honshu

JMA III 22 09 28 43.9–.20 37.34N 141.79E 46–4 3.8 ¶602684182

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 22 09 35 26.7–2.4 37.32N–.06 141.9E–.10 26–15 3.5b 20 1-57
IDC III 22 09 35 22.5–1.4 37.17N 141.78E 0 3.7,3.6b **¶602684168**
ISCJB III 22 09 35 25.0–1.5 37.28N–.05 141.98E–.07 26–9 3.5b,3.6b
JMA III 22 09 35 27.7–.20 37.31N 141.82E 32–3 3.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=31.4km s-min=28.1km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=8.6km az=12.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC III 22 09 44 30.0–.38 39.86N–.03 143.54E–.03 19–1 6.3s,5.9b 1948 1-158
NIED III 22 09 44 00 39.80N 143.80E 11 6.3W,5.9b **¶17197975**
JMA III 22 09 44 25.4–.50 39.92N 143.66E 0–4 6.5,5.9b
BJI III 22 09 44 25.0 39.85N 143.55E 10 6.6s,6.5
ISCJB III 22 09 44 25.9–.54 39.81N–.01 143.56E–.02 5–3 6.3s,5.9b
IDC III 22 09 44 26.9–.33 39.86N 143.56E 0 6.2,6.2
GCMT III 22 09 44 28.4–.10 39.84N 143.81E 13–0 6.3W,6.2
NEIC III 22 09 44 29.0–.00 40.26N 143.84E 15 6.3W,6.2
MOS III 22 09 44 29.2–.92 39.97N 143.49E 22 6.4s,6.1b
NEIC III 22 09 44 29.3–.08 39.85N 143.44E 13 6.4W,6.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ42.00000°,λ36.00000°. NP2:ϕ_s38.00000°,δ67.00000°,λ126.00000°. $M_0$3.01000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.7km az=151.3.
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=91.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c293; s138,c563;Duration: 3s5 Moment tensor: Scale 10^{18} Nm; M_{rr}2.14±.02 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$-2.20±.02; $M_{r\theta}$1.12±.04; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$2.86±.07; Best double couple: NP1:ϕ_s20.00000°,δ72.00000°,λ94.00000°. NP2:ϕ_s186.00000° ,δ18.00000°,λ77.00000°. Principal axes: T 3.7190,Plg63.0000°,Azm297.0000° ; N 0.1610,Plg4.0000°,Azm199.0000°; P -3.8850,Plg27.0000°,Azm107.0000° $M_0$3.80200×10^{18}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}1.50 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-1.80 $M_{r\theta}$2.20 $M_{\theta\phi}$0.00 $M_{\phi r}$4.70 Best double couple: NP1:ϕ_s23.00000°,δ82.00000° ,λ99.00000°. NP2:ϕ_s156.00000°,δ12.00000°,λ43.00000°. Principal axes: T 5.5000,Plg52.0000°,Azm303.0000°; N 0.0000,Plg8.0000°,Azm202.0000° ; P -5.5000,Plg36.0000°,Azm105.0000° $M_0$5.00000×10^{18}
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=101.9.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=143.0. Felt at Ichinoseki, Kawasaki, Misawa, Otawara and Tokyo. Recorded [4 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s43 Moment tensor: Scale 10^{18}Nm; M_{rr}2.45 $M_{\theta\theta}$-0.38 $M_{\phi\phi}$-2.07 $M_{r\theta}$0.66 $M_{\theta\phi}$-0.35 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ87.00000°. NP2: ϕ_s13.00000°,δ70.00000°,λ91.00000°. Principal axes: T 3.6900,Plg65.0000°,Azm286.0000° ; N -0.3200,Plg1.0000°,Azm193.0000°; P -3.3700,Plg25.0000°,Azm102.0000° $M_0$3.50000×10^{18}

(228) Near east coast of eastern Honshu

JMA III 22 09 50 44.0–.20 37.50N 141.91E 21–3 4.3 ¶602684141

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 22 09 52 59.6–.50 37.19N–.04 141.83E–.05 19 4.4b 60 1-152
ISCJB III 22 09 52 58.5–.38 37.23N–.05 141.95E–.05 19 4.4b **¶602684139**
JMA III 22 09 53 02.2–.20 37.29N 141.79E 35–3 4.3
IDC III 22 09 53 02.0–4.7 37.26N 141.84E 33–36 4.4,4.4
NEIC III 22 09 53 04.0–1.3 37.30N 141.79E 49–11 4.3b,4.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.3km az=169.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=14.3km az=140.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.0km az=129.0.

(228) Near east coast of eastern Honshu

JMA III 22 10 13 31.1 36.77N 140.85E 18–1 3.9 ¶602684109

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 22 10 18 58.8–.73 40.30N–.03 142.57E–.03 13–4 5.0b 404 1-151
NIED III 22 10 18 00 40.20N 142.60E 17 4.8W **¶602684092**
BJI III 22 10 18 53.4 40.33N 143.00E 11 5.3s,5.1
IDC III 22 10 18 56.0–.48 40.21N 142.51E 0 4.7,4.6
JMA III 22 10 18 58.4–.20 40.24N 142.55E 28–2 4.9,4.6
ISCJB III 22 10 18 59.0–.63 40.33N–.03 142.46E–.03 21–4 4.9b,4.8s
MOS III 22 10 19 00.1–1.1 40.33N 142.59E 38 5.3b,4.8s
NEIC III 22 10 19 02.6–.58 40.27N 142.39E 38–5 4.9b,4.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ53.00000°,λ-12.00000°. NP2:ϕ_s244.00000°,δ81.00000°,λ-142.00000°. $M_0$1.81000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=12.0km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=144.5.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=99.4.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=140.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC III 22 10 23 13.7–.80 40.27N–.04 142.54E–.04 21–3 4.8b 286 1-146
IDC III 22 10 23 09.9–.53 40.25N 142.51E 0 5.5,5.5s **¶16342428**
JMA III 22 10 23 12.1–.20 40.25N 142.57E 26–2 4.8,5.5s
ISCJB III 22 10 23 12.7–.57 40.31N–.03 142.48E–.03 20–4 5.3s,4.7b
MOS III 22 10 23 14.3–.95 40.40N 142.47E 33 5.0b,4.7b
BJI III 22 10 23 15.1 40.34N 142.61E 49 5.4s,5.1
NEIC III 22 10 23 16.8–.56 40.32N 142.41E 39–5 4.8b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=12.9km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=141.4.
MOS Error ellipse: s-maj=10.3km s-min=5.8km az=77.9.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=145.0.

(227) Eastern Honshu

ISC III 22 10 37 24.1–1.9 37.02N–.07 140.88E–.07 2–13 3.4b 18 0-57
ISCJB III 22 10 37 23.6–1.1 37.08N–.04 140.98E–.07 4–5 3.3b **¶17197987**
IDC III 22 10 37 23.7–1.3 36.93N 140.96E 0 3.5,3.4
JMA III 22 10 37 25.5 37.08N 140.83E 7–1 3.2,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=18.7.
IDC Error ellipse: s-maj=26.7km s-min=24.7km az=157.0.

JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 22 10 43 13.7–1.7 40.23N–.04 142.55E–.05 4–10 4.1b 52 1-87
IDC III 22 10 43 12.8–.64 40.21N 142.58E 0 4.1,4.0 **¶16480213**
JMA III 22 10 43 14.8–.10 40.24N 142.60E 27–2 4.3,4.0
NEIC III 22 10 43 17.5–2.1 40.23N 142.49E 30–15 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=15.1km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.1km az=114.0.
(228) Near east coast of eastern Honshu
ISC III 22 10 49 28.9–1.9 37.22N–.05 141.32E–.07 15–11 3.4b 24 0-90
IDC III 22 10 49 32.1–4.4 37.25N 141.34E 39–40 3.6L,3.5 **¶17197988**
JMA III 22 10 49 32.0–.10 37.35N 141.30E 32–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.5km s-min=21.0km az=76.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 22 10 56 46.4–.39 37.24N–.04 141.96E–.04 36–1 5.2s,4.9b 678 1-155
NIED III 22 10 56 00 37.30N 141.90E 29 4.7W,4.9b **¶16342429**
BJI III 22 10 56 43.6 37.06N 142.05E 40 5.6b,5.4s
JMA III 22 10 56 45.7–.20 37.29N 141.87E 33–4 4.8,5.4s
ISCJB III 22 10 56 45.6–.46 37.24N–.02 141.87E–.03 40–4 5.2s,4.8b
IDC III 22 10 56 47.2–1.8 37.26N 141.93E 45–16 4.7,4.6
MOS III 22 10 56 47.5–.75 37.60N 141.83E 43 5.1b,4.6
NEIC III 22 10 56 49.3–.47 37.28N 141.81E 59–4 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ33.00000°,λ-110.00000°. NP2:ϕ_s107.00000°,δ59.00000°,λ-77.00000°. $M_0$1.11000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=148.4.
IDC Error ellipse: s-maj=11.7km s-min=10.6km az=114.0.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=98.1.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=143.0.
(228) Near east coast of eastern Honshu
JMA III 22 11 08 11.3–.20 35.75N 140.86E 7–1 3.2
¶603397708
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 22 11 09 03.0–1.8 36.81N–.08 141.2E–.10 43–14 4.1b 25 0-147
IDC III 22 11 09 02.5–.60 38.08N 141.35E 0 4.4,4.2 **¶17197994**
ISCJB III 22 11 09 03.2–1.0 36.83N–.07 141.2E–.10 56–6 4.2b,4.2
JMA III 22 11 09 03.9–.10 36.82N 141.17E 45–1 3.9,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=16.3km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=9.4km az=22.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 22 11 21 37.4–.44 39.73N–.03 143.31E–.03 23–2 5.5b,5.4s 1130 1-165
NIED III 22 11 21 00 39.80N 143.40E 20 5.4W,5.4s **¶16342204**
IDC III 22 11 21 33.7–.46 39.70N 143.33E 0 5.3,5.3s
JMA III 22 11 21 35.1–.30 39.76N 143.39E 17–5 5.6,5.3s
ISCJB III 22 11 21 36.1–.68 39.72N–.02 143.18E–.02 21–4 5.4s,5.3b
BJI III 22 11 21 36.2 39.77N 143.09E 25 5.9b,5.7s
MOS III 22 11 21 38.6–.90 39.91N 143.14E 33 5.7b,5.4s
NEIC III 22 11 21 39.3–1.1 39.73N 143.11E 31–7 5.5b,5.3s
GCMT III 22 11 21 39.3–.30 39.90N 143.34E 26–1 5.6W,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ23.00000°,λ52.00000°. NP2:ϕ_s34.00000°,δ72.00000°,λ105.00000°. $M_0$1.60000×10^{17}
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=153.5.
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=102.6.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=147.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s101,c166; Duration: 1♯5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.91±.11 $M_{\theta\theta}$-0.25±.06; $M_{\phi\phi}$-1.67±.07; $M_{r\theta}$1.01±.14; $M_{\theta\phi}$-0.31±.03; $M_{\phi r}$2.43±.18; Best double couple: NP1:ϕ_s20.00000°,δ73.00000°,λ94.00000°. NP2:ϕ_s186.00000°,δ18.00000°,λ76.00000°. Principal axes: T 3.3060,Plg62.0000°,Azm297.0000°; N -0.2190,Plg4.0000°,Azm199.0000°; P -3.0920,Plg28.0000°,Azm107.0000° $M_0$3.19900×10^{17}
(228) Near east coast of eastern Honshu
ISC III 22 11 58 34.6–.50 36.54N–.04 141.91E–.05 19 4.3b 51 1-152
IDC III 22 11 58 31.8–.54 36.52N 141.94E 0 4.3,4.3L **¶602683759**
ISCJB III 22 11 58 33.1–.36 36.50N–.03 141.97E–.04 19 4.1b,4.3L
JMA III 22 11 58 36.3–.10 36.59N 141.81E 55–3 4.3,4.3L
NEIC III 22 11 58 37.3–1.1 36.49N 141.92E 35–10 4.4b,4.3L
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=13.1km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.3km az=177.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.8km az=82.0.
(229) Off east coast of Honshu
ISC III 22 12 01 21.6–.51 36.89N–.03 143.25E–.03 6–2 5.5b,5.5s 1245 2-164
NIED III 22 12 01 00 36.80N 143.20E 5 5.5W,5.5s **¶600562606**
BJI III 22 12 01 19.5 37.03N 143.15E 5 5.8s,5.7
IDC III 22 12 01 19.7–.34 36.80N 143.33E 0 5.2,5.2s
ISCJB III 22 12 01 21.0–.09 36.92N–.02 143.26E–.01 10 5.5s,5.4b
GCMT III 22 12 01 22.4–.10 36.83N 143.29E 12 5.6W,5.4b
JMA III 22 12 01 22.0–.20 36.84N 143.24E 56 5.6,5.4b
NEIC III 22 12 01 22.4–.13 36.87N 143.19E 10 5.6b,5.4s
MOS III 22 12 01 22.7–1.1 37.05N 143.17E 21 5.7b,5.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ37.00000°,λ-103.00000°. NP2:ϕ_s225.00000°,δ54.00000°,λ-80.00000°. $M_0$2.24000×10^{17}
IDC Error ellipse: s-maj=11.0km s-min=8.9km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.6km az=165.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s75,c127; s128,c289;Duration: 1♯5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.80±.04 $M_{\theta\theta}$1.12±.04; $M_{\phi\phi}$1.68±.04; $M_{r\theta}$-0.04±.13; $M_{\theta\phi}$1.30±.03; $M_{\phi r}$-0.10±.14; Best double couple: NP1:ϕ_s38.00000°,δ46.00000°,λ-91.00000°. NP2:ϕ_s220.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 2.7320,Plg1.0000°,Azm129.0000°; N 0.0700,Plg1.0000°,Azm39.0000°; P -2.8020,Plg89.0000°,Azm280.0000° $M_0$2.76700×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=150.0.
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=99.5.
(228) Near east coast of eastern Honshu
ISC III 22 12 04 07.0–.48 36.24N–.03 141.53E–.04 32–3 5.7s,5.4b 679 1-155
NIED III 22 12 04 00 36.20N 141.60E 23 5.6W,5.4b **¶16342432**
IDC III 22 12 04 02.2–.39 36.34N 141.52E 0 5.4s,5.4
BJI III 22 12 04 03.9 36.07N 141.50E 30 6.0b,5.7s
ISCJB III 22 12 04 05.7–.72 36.21N–.02 141.47E–.02 33–5 5.7s,5.4b
JMA III 22 12 04 05.0–.20 36.23N 141.63E 48–4 5.9,5.4b
MOS III 22 12 04 06.3–.92 36.39N 141.52E 33 5.7b,5.4b
NEIC III 22 12 04 09.0–.59 36.29N 141.40E 45–5 5.4b,5.4b
GCMT III 22 12 04 09.0–.20 36.12N 141.79E 34–0 5.7W,5.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ21.00000°,λ127.00000°. NP2:ϕ_s17.00000°,δ74.00000°,λ77.00000°. $M_0$2.52000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=9.7km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=136.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=6.7km az=109.9.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=136.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c94; s109,c186; Duration: 1♯6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.42±.12 $M_{\theta\theta}$-1.27±.08; $M_{\phi\phi}$-2.15±.08; $M_{r\theta}$1.17±.10; $M_{\theta\phi}$-1.12±.04; $M_{\phi r}$1.96±.09; Best double couple: NP1:ϕ_s32.00000°,δ63.00000°,λ89.00000°. NP2:ϕ_s216.00000°,δ27.00000°,λ93.00000°. Principal axes: T 4.1580,Plg72.0000°,Azm299.0000°; N -0.5100,Plg1.0000°,Azm33.0000°; P -3.6480,Plg18.0000°,Azm123.0000° $M_0$3.90300×10^{17}
(229) Off east coast of Honshu
ISC III 22 12 56 25.3–.51 37.12N–.04 143.98E–.04 27–3 5.2b,4.5s 1146 2-159
NIED III 22 12 56 00 37.10N 143.80E 8 4.9W,4.5s **¶16342434**
IDC III 22 12 56 20.8–.35 37.06N 144.10E 0 5.1,5.1
BJI III 22 12 56 23.7 37.48N 144.07E 22 5.3b,5.0b
GCMT III 22 12 56 24.8–.40 37.23N 144.03E 19–1 5.1W,5.0b
NEIC III 22 12 56 24.8–1.0 37.07N 143.98E 22–7 5.2b,5.0b
ISCJB III 22 12 56 25.5–.10 37.12N–.02 143.95E–.02 39 5.2b,4.5s
JMA III 22 12 56 25.2–.30 37.12N 143.82E 55 4.9,4.5s
MOS III 22 12 56 25.3–.79 37.27N 143.92E 33 5.4b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ41.00000°,λ-118.00000°. NP2:ϕ_s54.00000°,δ55.00000°,λ-68.00000°. $M_0$2.21000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.0km az=107.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s77,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.70±.38 $M_{\theta\theta}$2.22±.22; $M_{\phi\phi}$3.48±.24; $M_{r\theta}$0.30±.53; $M_{\theta\phi}$1.89±.11; $M_{\phi r}$0.68±.49; Best double couple: NP1:ϕ_s214.00000°,δ49.00000°,λ-92.00000°. NP2:ϕ_s37.00000°,δ41.00000°,λ-88.00000°. Principal axes: T 4.8930,Plg4.0000°,Azm306.0000°; N 0.8610,Plg1.0000°,Azm216.0000°; P -5.7540,Plg86.0000°,Azm107.0000° $M_0$5.32300×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=166.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.4km az=108.3.
(228) Near east coast of eastern Honshu
JMA III 22 12 57 15.6–.10 36.16N 141.22E 27–2 4.3
NIED III 22 12 57 00 36.20N 141.20E 14 4.6W **¶600562662**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ45.00000°,λ-77.00000°. NP2:ϕ_s147.00000°,δ47.00000°,λ-103.00000°. $M_0$1.02000×10^{16}
(228) Near east coast of eastern Honshu
ISC III 22 13 17 35.5–.70 35.86N–.05 140.82E–.08 31 3.9b 24 0-65
ISCJB III 22 13 17 32.9–.58 35.82N–.04 141.02E–.07 31 4.0b **¶17198008**
JMA III 22 13 17 36.1–.10 35.90N 140.83E 40–1 3.6
IDC III 22 13 17 36.4–2.2 35.80N 140.84E 42–21 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=159.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=13.4km az=79.0.
(227) Eastern Honshu
JMA III 22 13 23 32.7 37.04N 140.63E 5–1 3.7
¶602683610
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 22 13 42 47.0–.10 35.76N 140.94E 12–1 3.5
¶602683022
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 22 13 50 53.5–.44 35.82N–.03 141.64E–.03 30–2 5.8b,5.7s 1696 1-158
NIED III 22 13 50 00 35.90N 141.80E 17 5.7W,5.7s **¶602683002**
BJI III 22 13 50 46.5 35.85N 141.82E 10 5.9s,5.7
JMA III 22 13 50 49.8–.30 35.86N 141.78E 22–3 6.0,5.7
NEIC III 22 13 50 50.0–.00 35.59N 141.73E 15 6.0,5.7
MOS III 22 13 50 50.8–.99 35.84N 141.65E 25 6.1b,5.8s
GCMT III 22 13 50 51.1–.10 35.77N 141.66E 19–0 5.8W,5.8s
NEIC III 22 13 50 51.9–.08 35.80N 141.55E 20 5.9W,5.8
ISCJB III 22 13 50 51.0–.51 35.82N–.02 141.64E–.02 24–3 5.7b,5.7s
IDC III 22 13 50 55.9–1.8 35.84N 141.58E 48–16 5.7,5.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ41.00000°,λ28.00000°. NP2:ϕ_s51.00000°,δ72.00000°,λ128.00000°. $M_0$4.21000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}3.20 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-3.30 $M_{r\theta}$4.80 $M_{\theta\phi}$-1.30 $M_{\phi r}$5.20 Best double couple: NP1:ϕ_s40.00000°,δ77.00000°,λ100.00000°. NP2:ϕ_s177.00000°,δ16.00000°,λ48.00000°. Principal axes: T 7.9000,Plg55.0000°,Azm324.0000°; N -0.1000,Plg10.0000°,Azm218.0000°; P -7.8000,Plg32.0000°,Azm121.0000° $M_0$8.00000×10^{17}
MOS Error ellipse: s-maj=7.2km s-min=4.6km az=112.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c203; s130,c345;Duration: 2♯0 Moment tensor: Scale 10^{17}Nm; M_{rr}4.57±.08 $M_{\theta\theta}$0.18±.05; $M_{\phi\phi}$-4.75±.06; $M_{r\theta}$4.13±.16; $M_{\theta\phi}$-1.63±.04; $M_{\phi r}$1.88±.13; Best double couple: NP1:ϕ_s45.00000°,δ67.00000°,λ116.00000°. NP2:ϕ_s174.00000°,δ34.00000°,λ45.00000°. Principal axes: T 7.1050,Plg60.0000°,Azm352.0000°; N -0.8830,Plg23.0000°,Azm214.0000°; P -6.2220,Plg18.0000°,Azm116.0000° $M_0$6.66400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=139.0. Recorded [3 JMA] in Chiba and Ibaraki. Two events about 2 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}3.38 $M_{\theta\theta}$1.43 $M_{\phi\phi}$-4.81 $M_{r\theta}$2.36 $M_{\theta\phi}$0.71 $M_{\phi r}$2.04 Best double couple: NP1:ϕ_s144.00000°,δ42.00000°,λ39.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ125.00000°. Principal axes: T 5.3900,Plg56.0000°,Azm339.0000°; N -0.1000,Plg31.0000°,Azm187.0000°; P -5.2900,Plg13.0000°,Azm89.0000° $M_0$5.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ33.00000°,λ152.00000°. NP2: ϕ_s115.00000°,δ75.00000°,λ60.00000°. Principal axes: T Plg51.0000°,Azm351.0000°; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm228.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=157.0.
IDC Error ellipse: s-maj=10.5km s-min=7.1km az=87.0.
(228) Near east coast of eastern Honshu
JMA III 22 13 59 42.6–.20 35.87N 141.66E 23–3 3.9
¶16449017
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 22 14 30 00.7–.10 39.04N 142.41E 33–2 3.6
¶602682922
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 22 14 31 29.2–.41 37.98N–.05 142.66E–.05 14 4.4b 107 1-150
ISCJB III 22 14 31 27.9–.25 38.00N–.03 142.77E–.03 14 4.3b **¶602682919**
JMA III 22 14 31 30.6–.20 38.11N 142.69E 20–3 4.2
NEIC III 22 14 31 33.6–.62 38.09N 142.58E 42–5 4.5b
IDC III 22 14 31 33.1–2.7 38.04N 142.64E 38–22 4.2,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=168.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.4km az=136.0.
IDC Error ellipse: s-maj=12.5km s-min=11.3km az=116.0.
(162) South Island
WEL III 22 14 32 07.9–.10 42.72S 171.75E 5 3.9L
¶16359558
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
JMA III 22 14 32 36.7–.10 36.79N 141.45E 50–2 3.4
¶16350007
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 22 15 03 47.4–.28 35.86N–.03 141.63E–.03 21–2 6.0b,5.6s 1734 1-161
NIED III 22 15 03 00 35.90N 141.90E 11 5.6W,5.6s **¶602443795**
IDC III 22 15 03 44.0–.33 35.80N 141.67E 0 5.6,5.5
BJI III 22 15 03 43.4 35.84N 141.54E 10 5.8s,5.7
ISCJB III 22 15 03 44.5–.55 35.81N–.02 141.65E–.01 12–3 5.9b,5.6s
JMA III 22 15 03 46.2–.40 35.88N 141.76E 23–4 5.8,5.6s
NEIC III 22 15 03 46.8–.07 35.79N 141.57E 19 6.1b,5.9
MOS III 22 15 03 46.9–.81 35.79N 141.68E 33 6.2b,5.8s
GCMT III 22 15 03 49.2–.10 35.88N 141.56E 15–0 5.6W,5.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ45.00000°,λ104.00000°. NP2:ϕ_s85.00000°,δ47.00000°,λ77.00000°. $M_0$3.01000×10^{17}

IDC Error ellipse: s-maj=10.1km s-min=9.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=158.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=146.0. Recorded [3 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=115.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s89,c148; s137,c323;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.37±.06 $M_{\theta\theta}$-3.18±.04; $M_{\phi\phi}$-0.18±.04; $M_{r\theta}$-0.64±.12; $M_{\theta\phi}$0.40±.03; $M_{\phi r}$-1.13±.15; Best double couple: NP1: ϕ_s261.00000°,δ52.00000°,λ68.00000°. NP2:ϕ_s113.00000°,δ43.00000°,λ115.00000°. Principal axes: T 3.7740,Plg72.0000°,Azm110.0000°; N -0.5010,Plg17.0000°,Azm274.0000° ; P -3.2710,Plg4.0000°,Azm6.0000° $M_0$3.52300×10^{17}

(228) Near east coast of eastern Honshu

JMA	**III**	**22 15 07 28.6–.10**	**37.22N**	**141.44E**	**34–2**	**3.9**		**¶17198027**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 12 22.5–.66**	**38.24N–.05**	**141.91E–.05**	**49–5**	**4.5b**	**108**	**0-150**
BJI	III	22 15 12 20.3	38.16N	141.91E	50	5.2s,5.1		**¶602684068**
ISCJB	III	22 15 12 21.9–.60	38.28N–.04	141.86E–.06	55–4	4.5b,4.5s		
IDC	III	22 15 12 22.9–.64	38.28N	141.83E	47–6	4.4,4.3		
JMA	III	22 15 12 22.4–.10	38.28N	141.88E	47–1	4.7,4.3		
NEIC	III	22 15 12 23.9–.53	38.33N	141.80E	55–4	4.9b,4.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.4km az=29.1.
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=124.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 24 17.0–1.6**	**36.35N–.04**	**141.10E–.06**	**20–7**	**4.1b**	**43**	**1-91**
NEIC	III	22 15 24 15.5–2.9	36.32N	141.17E	10–18	4.2b		**¶16449019**
ISCJB	III	22 15 24 17.6–.73	36.35N–.03	141.20E–.07	38–7	4.0b		
JMA	III	22 15 24 18.7–.10	36.37N	141.10E	46–2	4.2		
IDC	III	22 15 24 19.9–2.4	36.30N	141.09E	41–23	4.1,4.1		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.2km az=1.8.
JMA Event type fe.
IDC Error ellipse: s-maj=17.1km s-min=13.5km az=101.0.

(173) Tonga Islands

ISC	**III**	**22 15 33 38.5–.58**	**18.83S–.10**	**174.5W–.10**	**100**	**4.1b**	**29**	**6-149**
IDC	III	22 15 33 38.8–3.1	18.76S	174.74W	94–27	4.6,4.5s		**¶16449020**
NEIC	III	22 15 33 38.1–.96	18.62S	174.97W	83–8	4.5b,4.5s		

ISC Event type fe.
IDC Error ellipse: s-maj=34.5km s-min=15.6km az=130.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=9.3km az=153.0. Felt at Neiafu.

(228) Near east coast of eastern Honshu

JMA	**III**	**22 15 47 33.8–.10**	**38.39N**	**141.62E**	**58–1**	**3.5**		**¶602682782**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 49 27.3–.49**	**39.21N–.03**	**142.45E–.03**	**30–3**	**5.3b,4.9s**	**1145**	**1-159**
NIED	III	22 15 49 00	39.20N	142.40E	35	5.2W,4.9s		**¶17198035**
BJI	III	22 15 49 21.7	39.11N	142.54E	18	5.4b,5.1b		
ISCJB	III	22 15 49 26.3–.59	39.20N–.02	142.36E–.02	31–4	5.3b,4.8s		
MOS	III	22 15 49 26.2–.89	39.24N	142.40E	33	5.5b,4.8s		
JMA	III	22 15 49 27.4–.10	39.22N	142.40E	34–1	5.2,4.8s		
GCMT	III	22 15 49 27.5–.30	39.17N	142.27E	38–1	5.1W,4.8s		
NEIC	III	22 15 49 27.5–.55	39.20N	142.32E	28–3	5.4b,4.8s		
IDC	III	22 15 49 28.5–.62	39.20N	142.41E	37–5	4.9,4.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ17.00000°,λ-148.00000°. NP2:ϕ_s174.00000°,δ81.00000°,λ-76.00000°. $M_0$6.75000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=155.1.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c50; s88,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.85±.28 $M_{\theta\theta}$1.51±.18; $M_{\phi\phi}$2.34±.18; $M_{r\theta}$0.76±.17; $M_{\theta\phi}$-2.18±.10; $M_{\phi r}$4.99±.22; Best double couple: NP1:ϕ_s173.00000°,δ72.00000° ,λ-68.00000°. NP2:ϕ_s301.00000°,δ28.00000°,λ-139.00000°. Principal axes: T 5.7110,Plg24.0000°,Azm247.0000°; N 1.2750,Plg21.0000°,Azm346.0000° ; P -6.9860,Plg57.0000°,Azm112.0000° $M_0$6.34900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=143.0. Recorded [4 JMA] in Miyagi.
IDC Error ellipse: s-maj=10.7km s-min=9.5km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 15 58 27.6–.53**	**39.19N–.04**	**142.48E–.04**	**30–3**	**4.9b,4.5s**	**403**	**1-151**
NIED	III	22 15 58 00	39.20N	142.40E	32	4.6W,4.5s		**¶16342447**
JMA	III	22 15 58 27.9–.10	39.22N	142.42E	33–1	4.8,4.5s		
MOS	III	22 15 58 27.4–.88	39.30N	142.35E	33	5.1b,4.5s		
BJI	III	22 15 58 27.0	39.07N	142.57E	46	5.3b,4.8b		
ISCJB	III	22 15 58 28.2–.45	39.20N–.02	142.35E–.03	43–3	4.8b,4.5s		
IDC	III	22 15 58 29.2–.70	39.18N	142.41E	40–5	4.6,4.5		
NEIC	III	22 15 58 30.5–.44	39.20N	142.29E	50–4	4.9b,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ38.00000°,λ-96.00000°. NP2:ϕ_s167.00000°,δ53.00000°,λ-85.00000°. $M_0$9.11000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.7km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=140.0.
IDC Error ellipse: s-maj=12.6km s-min=10.7km az=133.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=141.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 16 05 49.2–.58**	**35.82N–.03**	**141.67E–.04**	**28–3**	**5.2b,4.8s**	**676**	**1-154**
NIED	III	22 16 05 00	35.80N	141.80E	20	5.0W,4.8s		**¶16342448**
IDC	III	22 16 05 44.6–.39	35.71N	141.73E	0	5.1,5.0		
MOS	III	22 16 05 47.8–.84	35.76N	141.71E	33	5.5b,5.0		
JMA	III	22 16 05 48.3–.10	35.81N	141.75E	52–2	5.1,5.0		
BJI	III	22 16 05 48.6	35.88N	141.68E	45	5.3b,4.9b		
ISCJB	III	22 16 05 48.2–.82	35.72N–.02	141.64E–.02	32–5	5.2b,4.8s		
NEIC	III	22 16 05 51.3–.45	35.75N	141.60E	46–4	5.2b,4.8s		
GCMT	III	22 16 05 51.3–.50	35.48N	141.71E	22–1	5.1W,4.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ39.00000°,λ-93.00000°. NP2:ϕ_s172.00000°,δ51.00000°,λ-88.00000°. $M_0$3.13000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=94.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=121.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=147.9.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=137.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c22; s77,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.33±.35 $M_{\theta\theta}$0.62±.21; $M_{\phi\phi}$3.71±.21; $M_{r\theta}$-3.52±.44; $M_{\theta\phi}$-0.40±.15; $M_{\phi r}$0.29±.29; Best double couple: NP1:ϕ_s142.00000°,δ59.00000° ,λ-120.00000°. NP2:ϕ_s11.00000°,δ42.00000°,λ-50.00000°. Principal axes: T 3.8790,Plg9.0000°,Azm253.0000°; N 2.2780,Plg26.0000°,Azm159.0000° ; P -6.1590,Plg63.0000°,Azm1.0000° $M_0$5.01900×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**22 16 12 09.0–.39**	**35.75N–.03**	**141.65E–.03**	**29–2**	**5.5b,5.2s**	**1337**	**1-161**
NIED	III	22 16 12 00	35.80N	142.00E	17	5.2W,5.2s		**¶602682762**
IDC	III	22 16 12 04.7–.37	35.78N	141.70E	0	5.1,5.1		
ISCJB	III	22 16 12 06.8–.61	35.73N–.02	141.68E–.02	24–4	5.4b,5.2s		
BJI	III	22 16 12 06.6	35.74N	141.42E	22	5.5b,5.3s		
JMA	III	22 16 12 07.2–.20	35.81N	141.84E	35–3	5.4,5.3s		
MOS	III	22 16 12 07.9–1.2	35.90N	141.81E	33	5.8b,5.3s		
GCMT	III	22 16 12 09.2–.20	35.76N	141.59E	19–0	5.3W,5.3s		
NEIC	III	22 16 12 09.2–1.1	35.68N	141.64E	31–7	5.6b,5.2s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ38.00000°,λ-104.00000°. NP2:ϕ_s232.00000°,δ54.00000°,λ-79.00000°. $M_0$7.17000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.7km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=156.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.4km az=104.9.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c115; s114,c207; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$0.70±.02; $M_{\phi\phi}$0.37±.02; $M_{r\theta}$-0.04±.04; $M_{\theta\phi}$0.26±.01; $M_{\phi r}$0.47±.04; Best double couple: NP1:ϕ_s223.00000°,δ54.00000° ,λ-110.00000°. NP2:ϕ_s74.00000°,δ41.00000°,λ-65.00000°. Principal axes: T 0.8670,Plg7.0000°,Azm327.0000°; N 0.3560,Plg16.0000°,Azm235.0000° ; P -1.2270,Plg73.0000°,Azm79.0000° $M_0$1.04700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 17 46 36.8–.41**	**35.29N–.04**	**141.11E–.05**	**33**	**4.5b**	**154**	**0-148**
NIED	III	22 17 46 00	35.30N	141.30E	29	4.3W		**¶16342450**
JMA	III	22 17 46 34.6–.20	35.32N	141.16E	36–2	4.3		
ISCJB	III	22 17 46 35.3–.23	35.25N–.03	141.08E–.04	33	4.4b		
NEIC	III	22 17 46 37.7–.63	35.27N	141.02E	38–5	4.6b		
IDC	III	22 17 46 38.7–1.8	35.27N	140.97E	44–17	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ22.00000°,λ43.00000°. NP2:ϕ_s71.00000°,δ75.00000°,λ106.00000°. $M_0$3.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.9km az=139.2.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.9km az=133.0. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=14.3km s-min=11.2km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 17 49 51.1–.67**	**35.38N–.03**	**141.01E–.04**	**11–3**	**4.9b,4.2s**	**387**	**0-149**
NIED	III	22 17 49 00	35.30N	141.10E	23	4.9W,4.2s		**¶602682524**
BJI	III	22 17 49 48.0	35.35N	140.89E	3	5.0b,4.8s		
IDC	III	22 17 49 49.4–.37	35.31N	140.86E	0	4.8,4.7		
ISCJB	III	22 17 49 51.6–.73	35.30N–.03	140.86E–.03	24–5	4.8b,4.3s		
JMA	III	22 17 49 52.1–.10	35.33N	141.14E	23–3	4.8,4.3s		
MOS	III	22 17 49 54.8–.84	35.70N	140.82E	33	5.1b,4.3s		
NEIC	III	22 17 49 54.5–.15	35.30N	140.86E	35	4.9b,4.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ17.00000°,λ35.00000°. NP2:ϕ_s75.00000°,δ80.00000°,λ104.00000°. $M_0$2.29000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=9.7km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=149.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=106.4.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=149.0. Recorded [2 JMA] in Chiba.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 18 00 31.8–1.8**	**36.24N–.05**	**141.02E–.08**	**27–14**		**15**	**1-60**
IDC	III	22 18 00 31.6–6.1	35.76N	140.58E	0	3.4,3.3b		**¶17198050**
JMA	III	22 18 00 32.7–.10	36.24N	141.04E	36–1	3.5,3.3b		
ISCJB	III	22 18 00 32.0–.96	36.23N–.05	141.07E–.09	45–10	3.4b,3.3b		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 18 03 02.7–1.0**	**36.81N–.03**	**140.53E–.04**	**9–7**	**3.7b**	**41**	**0-91**
IDC	III	22 18 03 01.1–.78	36.71N	140.51E	0	4.0,3.9		**¶16480284**
NEIC	III	22 18 03 02.6–.39	36.72N	140.47E	10	4.4b,3.9		
ISCJB	III	22 18 03 02.2–.57	36.79N–.03	140.62E–.04	15–4	3.9s,3.7b		
JMA	III	22 18 03 02.7	36.81N	140.55E	7–1	3.8,3.7b		

ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=12.2km az=164.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.6km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=29.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s324.00000°,δ50.00000°,λ-111.00000°. NP2:ϕ_s175.00000°,δ44.00000°,λ-67.00000°. Principal axes: T Plg3.0000°,Azm69.0000°; N Plg16.0000°,Azm338.0000°; P Plg74.0000° ,Azm169.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**22 18 08 06.2–1.5**	**37.37N–.03**	**141.33E–.06**	**17–9**	**3.3b**	**27**	**1-64**
IDC	III	22 18 08 03.8–.92	37.32N	141.24E	0	3.4,3.3		**¶17198051**
ISCJB	III	22 18 08 04.8–.94	37.33N–.03	141.57E–.06	21–6	3.2b,3.3		
JMA	III	22 18 08 07.5–.10	37.37N	141.41E	37–2	4.0,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=17.9km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=15.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 18 21 13.5–2.0**	**37.22N–.04**	**141.87E–.06**	**10–12**	**3.8b**	**45**	**1-83**
NEIC	III	22 18 21 17.0–.56	37.16N	141.94E	35	4.2b		**¶16480286**
IDC	III	22 18 21 17.8–3.7	37.19N	141.78E	38–36	4.0L,3.9		
JMA	III	22 18 21 17.9–.20	37.31N	141.80E	36–4	4.0,3.9		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.9km az=106.0.
IDC Error ellipse: s-maj=23.6km s-min=19.9km az=23.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 18 25 42.0–.43**	**35.30N–.04**	**141.00E–.07**	**33**	**4.3b**	**66**	**0-148**
NIED	III	22 18 25 00	35.30N	141.00E	29	4.3W		**¶602683548**
IDC	III	22 18 25 37.7–.64	35.28N	140.91E	0	4.3,4.2		
ISCJB	III	22 18 25 40.4–.30	35.27N–.03	141.05E–.06	33	4.3b,3.1s		
JMA	III	22 18 25 40.5–.20	35.33N	141.13E	30–3	4.2,3.1s		
NEIC	III	22 18 25 42.7–.30	35.29N	140.97E	35	4.6b,3.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ16.00000°,λ50.00000°. NP2:ϕ_s88.00000°,δ78.00000°,λ100.00000°. $M_0$3.74000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.6km az=15.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=7.0km az=90.0. Recorded [1 JMA] in Chiba.

(228) Near east coast of eastern Honshu

JMA	**III**	**22 18 37 32.2–.20**	**38.98N**	**142.35E**	**34–2**	**3.5**		**¶602683508**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 18 50 10.8–.93**	**37.65N–.04**	**141.75E–.05**	**44–8**	**4.4b**	**135**	**1-146**
NIED	III	22 18 50 00	37.70N	141.60E	50	4.2W		**¶16342636**
ISCJB	III	22 18 50 10.5–.52	37.62N–.03	141.66E–.05	58–3	4.3b,3.6s		
JMA	III	22 18 50 12.0–.10	37.68N	141.61E	48–2	4.2,3.6s		
NEIC	III	22 18 50 12.3–.49	37.66N	141.60E	56–4	4.5b,3.6s		
IDC	III	22 18 50 13.4–2.0	37.67N	141.54E	63–18	4.3,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ33.00000°,λ84.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ94.00000°. $M_0$2.26000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=10.1.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=98.0.
IDC Error ellipse: s-maj=13.9km s-min=10.9km az=91.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 19 07 45.0–.67**	**35.63N–.04**	**141.76E–.04**	**24–4**	**4.9b,4.5s**	**355**	**1-152**
IDC	III	22 19 07 41.5–.36	35.62N	141.82E	0	4.8,4.7		**¶17198057**
BJI	III	22 19 07 43.8	35.63N	141.60E	26	5.0b,4.8b		
ISCJB	III	22 19 07 43.3–.89	35.59N–.03	141.76E–.03	21–6	4.8b,4.5s		
MOS	III	22 19 07 44.9–1.1	35.72N	141.80E	33	5.1b,4.5s		
JMA	III	22 19 07 44.1–.20	35.69N	141.81E	17–3	4.5,4.5s		
NEIC	III	22 19 07 46.1–1.3	35.60N	141.74E	30–9	4.9b,4.5s		

ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=9.1km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=155.2.

MOS Error ellipse: s-maj=7.8km s-min=4.7km az=112.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=118.0. Recorded [3 JMA] in Chiba.

(228) Near east coast of eastern Honshu

JMA	**III**	**22 19 08 34.6–.10**	**35.72N**	**140.90E**	**8–1**	**4.1**		**¶603049974**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 19 09 58.5–.52**	**36.25N–.04**	**141.66E–.04**	**26–3**	**4.9b,4.5s**	**389**	**1-147**
NIED	III	22 19 09 00	36.20N	141.70E	23	4.9W,4.5s		**¶16342638**
IDC	III	22 19 09 54.9–.52	36.21N	141.63E	0	4.7,4.6		
NEIC	III	22 19 09 56.7–2.2	36.23N	141.47E	9–13	4.9b,4.6		
BJI	III	22 19 09 56.3	36.38N	141.27E	10	5.0b,5.0b		
ISCJB	III	22 19 09 57.7–.85	36.19N–.03	141.54E–.03	27–5	4.8b,4.5s		
JMA	III	22 19 09 58.0–.20	36.22N	141.68E	52–5	5.0,4.5s		
MOS	III	22 19 10 00.1–1.0	36.57N	141.53E	33	5.2b,4.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ21.00000°,λ118.00000°. NP2:ϕ_s15.00000°,δ72.00000°,λ80.00000°. $M_0$2.17000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=11.9km az=123.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.0km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=145.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=113.3.

(502) Arkansas

ISC	**III**	**22 19 56 05.4–.76**	**35.25N–.02**	**92.40W–.02**	**8–4**		**140**	**0-26**
NEIC	III	22 19 56 05.4	35.24N	92.40W	5	3.3		**¶16509589**

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Conway and [III] at Greenbrier. Also felt at Benton and Vilonia. After CERI.

(162) South Island

WEL	**III**	**22 20 06 21.3–.12**	**43.57S**	**172.76E**	**5**	**3.6L**	**¶16359559**

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 20 50 10.1–1.7**	**37.27N–.04**	**141.82E–.07**	**30–11**	**4.2b**	**88**	**1-146**
NIED	III	22 20 50 00	37.30N	141.80E	32	4.0W		**¶16350019**
IDC	III	22 20 50 05.5–.66	37.23N	141.83E	0	4.2,4.1		
ISCJB	III	22 20 50 09.9–.69	37.26N–.03	141.87E–.06	43–5	4.1b,4.1		
JMA	III	22 20 50 10.8–.20	37.28N	141.81E	44–3	4.3,4.1		
NEIC	III	22 20 50 12.1–.62	37.28N	141.83E	47–5	4.4b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ33.00000°,λ-98.00000°. NP2:ϕ_s88.00000°,δ57.00000°,λ-85.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=14.3km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.8km az=20.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=140.0.

(218) Near east coast of Kamchatka Peninsula

ISC	**III**	**22 21 31 09.8–.72**	**53.10N–.04**	**159.91E–.04**	**58–5**	**3.8b**	**130**	**0-144**
KRSC	III	22 21 31 09.4–.73	53.12N	159.99E	60–7	4.4L		**¶17198077**
MOS	III	22 21 31 09.2–1.0	53.04N	159.88E	68	4.1b		
ISCJB	III	22 21 31 10.2–.42	53.10N–.03	159.87E–.06	75–3	3.7b		
IDC	III	22 21 31 14.0–1.1	53.20N	159.53E	94–9	3.8,3.7		

ISC Event type se.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=9.9km s-min=5.1km az=86.9. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=3.1km az=38.0.
IDC Error ellipse: s-maj=23.1km s-min=14.5km az=177.0.

(229) Off east coast of Honshu

ISC	**III**	**22 21 32 14.5–.56**	**37.97N–.06**	**142.72E–.06**	**14**	**4.3b**	**99**	**1-82**
NIED	III	22 21 32 00	37.90N	142.60E	20	4.2W		**¶16350020**
IDC	III	22 21 32 12.3–.76	38.02N	142.84E	0	4.2,4.1		
ISCJB	III	22 21 32 12.5–.34	37.97N–.04	142.82E–.05	14	4.2b,3.3s		
JMA	III	22 21 32 13.2–.50	37.95N	142.60E	3–5	4.3,3.3s		
NEIC	III	22 21 32 15.7–1.7	38.02N	142.82E	21–12	4.5b,3.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ7.00000°,λ112.00000°. NP2:ϕ_s39.00000°,δ84.00000°,λ87.00000°. $M_0$2.63000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=14.3km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=5.1km az=151.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**22 21 55 36.5–.50**	**40.28N–.04**	**142.55E–.04**	**13–2**	**4.8b,4.4s**	**350**	**1-146**
NIED	III	22 21 55 00	40.30N	142.60E	8	4.7W,4.4s		**¶16342646**
IDC	III	22 21 55 34.0–.49	40.25N	142.54E	0	4.5,4.4		
ISCJB	III	22 21 55 34.9–.88	40.28N–.03	142.52E–.03	10–5	4.7b,4.4s		
BJI	III	22 21 55 34.8	40.42N	142.95E	29	5.0b,4.6b		
JMA	III	22 21 55 35.4–.20	40.25N	142.61E	24–2	4.7,4.6b		
MOS	III	22 21 55 38.7–.98	40.46N	142.46E	33	5.0b,4.6b		
NEIC	III	22 21 55 39.5–1.5	40.27N	142.46E	31–11	4.7b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ52.00000°,λ-34.00000°. NP2:ϕ_s236.00000°,δ64.00000°,λ-136.00000°. $M_0$1.18000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=11.5km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=158.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=4.7km az=100.6.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.8km az=144.0.

(502) Arkansas

ISC	**III**	**22 22 02 18.2–1.2**	**35.30N–.02**	**92.42W–.03**	**3–11**		**48**	**1-6**
NEIC	III	22 22 02 19.0	35.25N	92.38W	6	2.5		**¶16918864**

ISC Event type fe.
NEIC Event type fe. Felt at Conway, Greenbrier and Little Rock. After CERI.

(227) Eastern Honshu

ISC	**III**	**22 22 12 31.7–.44**	**37.10N–.02**	**140.77E–.03**	**20–1**	**5.5b,5.4s**	**1494**	**0-157**
NIED	III	22 22 12 00	37.10N	140.80E	5	5.7W,5.4s		**¶602707316**
BJI	III	22 22 12 25.0	37.07N	141.14E	10	5.9s,5.7		
JMA	III	22 22 12 28.7	37.08N	140.79E	8–1	6.0,5.7		
ISCJB	III	22 22 12 28.4–.39	37.07N–.02	140.83E–.02	7–2	5.5s,5.4b		
IDC	III	22 22 12 28.1–.37	37.11N	140.76E	0	5.4s,5.4		
NEIC	III	22 22 12 31.8–.71	37.07N	140.64E	18–4	5.5W,5.5b		
GCMT	III	22 22 12 31.8–.10	37.09N	140.76E	12	5.7W,5.5b		
MOS	III	22 22 12 32.1–1.1	37.23N	140.81E	33	5.7b,5.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ27.00000°,λ-82.00000°. NP2:ϕ_s191.00000°,δ64.00000°,λ-94.00000°. $M_0$4.26000×10^{17}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s184.00000°,δ77.00000°,λ-149.00000°. NP2:ϕ_s86.00000°,δ60.00000°,λ-15.00000°. Principal axes: T Plg11.0000°,Azm312.0000°; N Plg57.0000°,Azm205.0000°; P Plg31.0000°,Azm49.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=152.0.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=141.0. Recorded [5U JMA] in Fukushima. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.68 $M_{\theta\theta}$0.34 $M_{\phi\phi}$1.34 $M_{r\theta}$-0.84 $M_{\theta\phi}$0.93 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s182.00000°,δ61.00000°,λ-12.00000°. NP2:ϕ_s55.00000°,δ43.00000°,λ-46.00000°. Principal axes: T 1.9900,Plg10.0000°,Azm295.0000°; N 0.5000,Plg28.0000°,Azm199.0000°; P -2.4900,Plg60.0000°,Azm43.0000° $M_0$2.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c180; s138,c354;Duration: 1$\hat{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.65±.03 $M_{\theta\theta}$0.14±.03; $M_{\phi\phi}$3.51±.03; $M_{r\theta}$0.71±.10; $M_{\theta\phi}$1.14±.03; $M_{\phi r}$1.72±.10; Best double couple: NP1:ϕ_s200.00000°,δ58.00000°,λ-87.00000°. NP2:ϕ_s14.00000°,δ32.00000°,λ-94.00000°. Principal axes: T 4.2910,Plg13.0000°,Azm288.0000°; N -0.2030,Plg2.0000°,Azm18.0000°; P -4.0890,Plg77.0000°,Azm118.0000° $M_0$4.19000×10^{17}
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=95.3.

(227) Eastern Honshu

ISC	**III**	**22 22 21 10.7–.89**	**37.09N–.04**	**140.75E–.06**	**7–7**	**3.5b**	**20**	**0-57**
ISCJB	III	22 22 21 09.4–.96	37.09N–.03	140.89E–.06	9–4	3.5b		**¶600563230**
JMA	III	22 22 21 10.9	37.09N	140.78E	8–1	3.6		
IDC	III	22 22 21 10.6–1.5	37.22N	140.58E	0	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.6km az=4.1.
JMA Event type fe.
IDC Error ellipse: s-maj=34.0km s-min=29.0km az=126.0.

(229) Off east coast of Honshu

ISC	**III**	**22 22 30 36.5–.47**	**37.95N–.05**	**142.58E–.06**	**14**	**4.5b**	**97**	**1-145**
JMA	III	22 22 30 34.6–.30	37.98N	142.62E	5–3	4.5		**¶602683201**
ISCJB	III	22 22 30 34.7–.30	37.96N–.04	142.67E–.04	14	4.4b		
NEIC	III	22 22 30 39.7–.24	38.01N	142.64E	35	4.6b		
IDC	III	22 22 30 41.3–2.2	37.94N	142.55E	52–19	4.3,4.1		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.7km az=17.4.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=153.0.
IDC Error ellipse: s-maj=14.6km s-min=12.5km az=129.0.

(227) Eastern Honshu

JMA	**III**	**22 22 31 07.2**	**37.09N**	**140.78E**	**8–1**	**3.5**	**¶17198080**

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**22 22 36 31.7–.67**	**37.10N–.03**	**140.74E–.03**	**12–3**	**5.5b,5.2s**	**1180**	**0-165**
NIED	III	22 22 36 00	37.10N	140.80E	5	5.4W,5.2s		**¶602443828**
BJI	III	22 22 36 25.8	36.96N	141.15E	10	5.8b,5.4s		
IDC	III	22 22 36 29.9–.39	37.13N	140.62E	0	5.2,5.1		
ISCJB	III	22 22 36 31.0–.90	37.07N–.02	140.67E–.02	15–5	5.4b,5.1s		
JMA	III	22 22 36 31.3	37.06N	140.77E	7–1	5.8,5.1s		
GCMT	III	22 22 36 32.8–.10	37.06N	140.74E	15–0	5.4W,5.1s		
NEIC	III	22 22 36 32.8–.60	37.10N	140.56E	16–3	5.5b,5.2W		
MOS	III	22 22 36 33.2–1.2	37.23N	140.79E	33	5.6b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ35.00000°,λ-90.00000°. NP2:ϕ_s179.00000°,δ55.00000°,λ-90.00000°. $M_0$1.32000×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=11.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=149.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c133; s130,c246; Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.74±.03 $M_{\theta\theta}$0.11±.02; $M_{\phi\phi}$1.63±.03; $M_{r\theta}$0.01±.07; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.17±.06; Best double couple: NP1:ϕ_s181.00000°,δ48.00000°,λ-90.00000°. NP2:ϕ_s0.00000°,δ42.00000°,λ-90.00000°. Principal axes: T 1.6390,Plg3.0000°,Azm271.0000°; N 0.1110,Plg0.0000°,Azm1.0000°; P -1.7480,Plg87.0000°,Azm97.0000° $M_0$1.69400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=143.0. Recorded [5U JMA] in Fukushima. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.10 $M_{\theta\theta}$-1.31 $M_{\phi\phi}$5.41 $M_{r\theta}$-5.84 $M_{\theta\phi}$3.56 $M_{\phi r}$-1.77 Best double couple: NP1:ϕ_s57.00000°,δ72.00000°,λ-56.00000°. NP2:ϕ_s171.00000°,δ38.00000°,λ-15.00000°. Principal axes: T 8.4200,Plg20.0000°,Azm122.0000°; N 0.3500,Plg32.0000°,Azm226.0000°; P -8.7600,Plg50.0000°,Azm6.0000° $M_0$8.60000×10^{16}
MOS Error ellipse: s-maj=8.1km s-min=6.4km az=90.0.

(227) Eastern Honshu

JMA	**III**	**22 22 43 50.3**	**37.08N**	**140.77E**	**6–1**	**2.1**		**¶602683189**

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**22 22 43 49.7–4.1**	**37.0N–.10**	**141.1E–.10**	**4–17**	**3.8b**	**11**	**0-57**
IDC	III	22 22 43 39.0–2.5	36.73N	142.23E	0	3.8,3.8b		**¶600563248**
JMA	III	22 22 43 56.1	37.10N	140.80E	5–1	3.2,3.8b		

ISC Event type ke.
IDC Error ellipse: s-maj=67.7km s-min=29.5km az=65.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**22 22 45 47.8–1.1**	**36.99N–.04**	**140.67E–.05**	**8–9**	**3.5b**	**21**	**0-57**
IDC	III	22 22 45 45.9–2.0	37.07N	140.96E	0	3.5,3.4b		**¶17198084**
ISCJB	III	22 22 45 47.4–1.0	37.01N–.03	140.91E–.07	14–4	3.4b,3.4b		
JMA	III	22 22 45 48.8	37.02N	140.77E	10–1	3.6,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=28.9km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.6km az=7.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s343.00000°,δ64.00000°,λ-86.00000°. NP2:ϕ_s154.00000°,δ26.00000°,λ-98.00000°. Principal axes: T Plg19.0000°,Azm70.0000°; N Plg4.0000°,Azm161.0000°; P Plg71.0000°,Azm262.0000°

(229) Off east coast of Honshu

ISC	**III**	**22 22 51 36.5–.55**	**36.99N–.04**	**142.38E–.05**	**19–2**	**4.8b,4.6s**	**139**	**2-146**
NIED	III	22 22 51 00	37.00N	142.40E	11	4.4W,4.6s		**¶602683165**
IDC	III	22 22 51 33.0–.59	36.99N	142.40E	0	4.3,4.2		
JMA	III	22 22 51 35.5–.30	37.08N	142.42E	45	4.7,4.2		
ISCJB	III	22 22 51 35.7–1.2	36.98N–.03	142.36E–.03	24–8	4.7s,4.6b		
BJI	III	22 22 51 35.9	36.74N	142.42E	32	5.2b,4.9s		
NEIC	III	22 22 51 39.1–.84	36.94N	142.31E	38–8	4.9b,4.9s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ41.00000°,λ-90.00000°. NP2:ϕ_s231.00000°,δ49.00000°,λ-90.00000°. $M_0$4.83000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=14.2km az=144.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=145.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.3km az=110.0.

(227) Eastern Honshu

JMA	**III**	**22 22 53 18.1**	**37.09N**	**140.79E**	**7–1**	**2.8**		**¶602683162**

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**22 22 53 28.1–.82**	**37.08N–.03**	**140.80E–.04**	**13–4**	**5.0b,4.4s**	**367**	**0-149**
NIED	III	22 22 53 00	37.10N	140.80E	5	4.6W,4.4s		**¶602443820**
IDC	III	22 22 53 26.0–.47	37.06N	140.78E	0	4.6,4.6		
BJI	III	22 22 53 26.1	36.91N	140.83E	18	5.3b,4.9s		
JMA	III	22 22 53 27.3	37.07N	140.80E	5–1	5.1,4.9s		
ISCJB	III	22 22 53 28.7–.49	37.06N–.02	140.70E–.03	23–3	4.8b,4.5s		
NEIC	III	22 22 53 31.9–2.6	37.06N	140.61E	35–18	5.0b,4.5s		
MOS	III	22 22 53 31.6–.96	37.50N	140.62E	28	5.1b,4.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ31.00000°,λ-94.00000°. NP2:ϕ_s208.00000°,δ60.00000°,λ-88.00000°. $M_0$1.05000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.1km az=110.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=29.2.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=142.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=8.5km s-min=5.3km az=118.2.

(227) Eastern Honshu

ISC	**III**	**22 23 03 52.7–.86**	**37.05N–.03**	**140.71E–.04**	**10–5**	**4.1b**	**50**	**0-147**
NIED	III	22 23 03 00	37.00N	140.80E	5	4.0W		**¶602443833**
IDC	III	22 23 03 51.0–.68	37.00N	140.62E	0	4.1,3.9		
JMA	III	22 23 03 52.9	37.05N	140.71E	11–1	4.3,3.9		
ISCJB	III	22 23 03 52.1–.50	37.03N–.03	140.77E–.05	20–3	4.0b,3.9		
NEIC	III	22 23 03 56.4–.42	37.00N	140.60E	35	4.4b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ49.00000°,λ-147.00000°. NP2:ϕ_s173.00000°,δ66.00000°,λ-46.00000°. $M_0$9.80000×10^{14}
IDC Error ellipse: s-maj=18.4km s-min=16.2km az=109.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s283.00000°,δ62.00000°,λ-138.00000°. NP2:ϕ_s171.00000°,δ54.00000°,λ-35.00000°. Principal axes: T Plg5.0000°,Azm45.0000°; N Plg42.0000°,Azm311.0000°; P Plg48.0000°,Azm141.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=10.7.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=8.6km az=141.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC III 22 23 09 52.1–1.6 37.28N–.06 140.90E–.07 5–11 3.4b 20 0-75
IDC III 22 23 09 51.9–1.1 37.40N 140.97E 0 3.8,3.6 **¶17198085**
ISCJB III 22 23 09 51.3–1.1 37.24N–.04 141.04E–.06 8–5 3.5b,3.6
JMA III 22 23 09 53.2 37.22N 140.89E 8–1 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=20.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.3km az=38.8.
JMA Event type fe.
(227) Eastern Honshu
JMA III 22 23 23 58.4 37.08N 140.75E 9–1 3.1
¶603145388
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 22 23 46 52.9–.44 35.26N–.03 141.03E–.04 31–2 4.8b,4.5s 321 0-152
NIED III 22 23 46 00 35.30N 141.20E 17 4.9W,4.5s **¶602683057**
IDC III 22 23 46 47.9–.48 35.21N 141.09E 0 4.6,4.5
BJI III 22 23 46 49.8 35.05N 140.97E 30 5.0b,4.8s
JMA III 22 23 46 50.5–.10 35.26N 141.23E 38–2 5.0,4.8s
ISCJB III 22 23 46 52.9–.46 35.20N–.02 140.94E–.03 40–4 4.7b,4.5s
MOS III 22 23 46 52.3–1.3 35.35N 141.04E 33 5.0b,4.4s
NEIC III 22 23 46 54.0–.19 35.24N 140.93E 35 4.8b,4.4s
GCMT III 22 23 46 54.0–.40 35.27N 141.17E 22–1 5.0W,4.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ45.00000°,λ-166.00000°. NP2:ϕ_s195.00000°,δ80.00000°,λ-46.00000°. $M_0$2.52000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.4km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=20.7.
MOS Error ellipse: s-maj=7.9km s-min=4.6km az=116.9.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.5km az=145.0. Recorded [2 JMA] in Chiba and Saitama.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s68,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.56±.23 $M_{\theta\theta}$-2.84±.16; $M_{\phi\phi}$1.28±.12; $M_{r\theta}$1.00±.20; $M_{\theta\phi}$-1.35±.08; $M_{\phi r}$1.67±.26; Best double couple: NP1:ϕ_s40.00000°,δ72.00000°,λ48.00000°. NP2:ϕ_s291.00000°,δ45.00000°,λ154.00000°. Principal axes: T 3.1020,Plg46.0000°,Azm267.0000°; N 0.5600,Plg39.0000°,Azm56.0000°; P -3.6630,Plg16.0000°,Azm159.0000° $M_0$3.38200×10^{16}
(228) Near east coast of eastern Honshu
JMA III 22 23 48 12.1–.10 39.28N 142.35E 28–1 3.7
¶16462107
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 23 00 06 43.0–.29 39.26N–.03 142.39E–.03 37–1 5.2b,4.6s 1175 1-159
NIED III 23 00 06 00 39.30N 142.40E 32 4.9W,4.6s **¶602443838**
BJI III 23 00 06 40.3 39.30N 142.30E 35 5.2b,5.2b
JMA III 23 00 06 41.6–.10 39.25N 142.40E 33–1 5.1,5.2b
MOS III 23 00 06 42.0–.87 39.37N 142.36E 40 5.3b,5.2b
ISCJB III 23 00 06 42.0–.37 39.24N–.02 142.33E–.02 40–3 5.1b,4.6s
GCMT III 23 00 06 43.5–.30 39.17N 142.34E 37–1 5.0W,4.6s
NEIC III 23 00 06 43.5–.67 39.21N 142.25E 41–6 5.3b,4.6s
IDC III 23 00 06 44.6–1.9 39.22N 142.38E 53–17 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ28.00000°,λ-156.00000°. NP2:ϕ_s159.00000°,δ79.00000°,λ-64.00000°. $M_0$2.84000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=97.9.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=157.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c32; s81,c119; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.39±.25 $M_{\theta\theta}$1.83±.16; $M_{\phi\phi}$0.56±.16; $M_{r\theta}$-0.14±.13; $M_{\theta\phi}$-1.43±.08; $M_{\phi r}$3.39±.19; Best double couple: NP1:ϕ_s160.00000°,δ73.00000°,λ-65.00000°. NP2:ϕ_s282.00000°,δ30.00000°,λ-144.00000°. Principal axes: T 3.6820,Plg24.0000°,Azm231.0000°; N 1.0020,Plg23.0000°,Azm332.0000°; P -4.6830,Plg55.0000°,Azm101.0000° $M_0$4.18200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=156.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=109.0.
(284) South of Bali
ISC III 23 00 07 33.1–1.0 9.38S–.06 114.05E–.05 55–8 4.7b,4.2s 174 1-151
DJA III 23 00 07 31.4–.60 10S–6.0 114E–3.0 10 5.3,5.3b **¶16342654**
IDC III 23 00 07 31.9–4.5 9.27S 114.03E 43–43 4.6,4.4
NEIC III 23 00 07 32.8–.53 9.39S 114.02E 53–4 4.8W,4.7b
GCMT III 23 00 07 32.8–.40 9.69S 114.04E 47–1 5.0W,4.7b
BJI III 23 00 07 32.5 9.50S 114.00E 51 5.3b,4.9s
ISCJB III 23 00 07 33.0–.51 9.36S–.04 114.06E–.03 72–4 4.6b,4.9s
ISC Event type fe.
NEIC Event type fe. Felt [III] at Denpasar and Nusadua. Also felt at Negara and Ubud. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43 $M_{\theta\theta}$-0.87 $M_{\phi\phi}$1.30 $M_{r\theta}$1.30 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s233.00000°,δ71.00000°,λ-37.00000°. NP2:ϕ_s336.00000°,δ55.00000°,λ-15.00000°. Principal axes: T 1.4500,Plg10.0000°,Azm288.0000°; N 0.5800,Plg49.0000°,Azm29.0000°; P -2.0300,Plg39.0000°,Azm189.0000° $M_0$1.80000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c33; s58,c76;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.69±.28 $M_{\theta\theta}$-3.50±.16; $M_{\phi\phi}$-0.19±.20; $M_{r\theta}$1.81±.13; $M_{\theta\phi}$0.86±.12; $M_{\phi r}$0.03±.15; Best double couple: NP1:ϕ_s97.00000°,δ58.00000°,λ83.00000°. NP2:ϕ_s290.00000°,δ33.00000°,λ101.00000°. Principal axes: T 4.1330,Plg76.0000°,Azm347.0000°; N -0.0280,Plg6.0000°,Azm101.0000°; P -4.1070,Plg13.0000°,Azm192.0000° $M_0$4.12000×10^{16}
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 23 00 07 58.0–.68 35.04N–.09 140.99E–.09 48 4.4b 21 0-92
NIED III 23 00 07 00 35.30N 141.20E 5 4.7W **¶16342653**
IDC III 23 00 07 51.2–.87 35.00N 141.12E 0 4.5,4.4b
JMA III 23 00 07 54.4–.20 35.26N 141.22E 35–5 4.7,4.4b
ISCJB III 23 00 07 56.5–.58 35.07N–.08 141.04E–.09 48 4.3b,4.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ41.00000°,λ-73.00000°. NP2:ϕ_s332.00000°,δ51.00000°,λ-105.00000°. $M_0$1.49000×10^{16}
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 23 00 21 12.6–.63 38.87N–.05 142.03E–.08 51 4.0b 35 1-89
NIED III 23 00 21 00 38.90N 142.00E 56 4.2W **¶17198100**
ISCJB III 23 00 21 10.8–.50 38.84N–.04 142.13E–.06 51 3.9b
JMA III 23 00 21 12.0–.10 38.85N 142.04E 45–2 4.0
IDC III 23 00 21 15.4–2.4 38.86N 141.99E 78–21 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ36.00000°,λ76.00000°. NP2:ϕ_s40.00000°,δ55.00000°,λ100.00000°. $M_0$2.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=40.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=14.1km az=110.0.
(228) Near east coast of eastern Honshu
ISC III 23 01 21 49.0–2.1 38.28N–.05 142.23E–.08 5–11 4.2b 24 1-62
IDC III 23 01 21 38.5–1.2 39.43N 145.34E 0 3.9,3.7 **¶17198105**
ISCJB III 23 01 21 49.8–1.5 38.35N–.05 142.33E–.08 18–8 3.9b,3.7
JMA III 23 01 21 51.2–.20 38.43N 142.28E 25–2 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=22.2km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=7.9km az=17.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC III 23 02 40 21.7–1.4 37.00N–.05 140.77E–.05 3–9 3.6b 27 0-93
NIED III 23 02 40 00 37.10N 140.80E 5 3.7W **¶600563495**
ISCJB III 23 02 40 21.4–.75 37.04N–.03 140.84E–.05 10–4 3.5b
IDC III 23 02 40 21.2–.82 36.97N 140.80E 0 3.9,3.7
JMA III 23 02 40 22.3 37.05N 140.76E 8–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ43.00000°,λ-93.00000°. NP2:ϕ_s230.00000°,δ47.00000°,λ-88.00000°. $M_0$4.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.4km az=25.9.
IDC Error ellipse: s-maj=21.5km s-min=17.0km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s45.00000°,δ49.00000°,λ-96.00000°. NP2:ϕ_s234.00000°,δ41.00000°,λ-84.00000°. Principal axes: T Plg4.0000°,Azm139.0000°; N Plg4.0000°,Azm49.0000°; P Plg84.0000°,Azm274.0000°
(228) Near east coast of eastern Honshu
ISC III 23 03 24 06.8–.36 38.01N–.04 144.33E–.04 35 4.8b,3.9s 638 2-153
NIED III 23 03 24 00 38.90N 142.40E 35 4.4W,3.9s **¶602687734**
IDC III 23 03 24 01.4–.46 37.87N 144.31E 0 4.7,4.6
NEIC III 23 03 24 03.4–.14 37.94N 144.25E 10 4.9b,4.6
BJI III 23 03 24 04.1 38.19N 144.02E 7 4.9b,4.7b
ISCJB III 23 03 24 05.5–.15 38.03N–.03 144.18E–.02 33 4.7b,3.9s
MOS III 23 03 24 06.2–.97 38.17N 144.17E 33 4.9b,3.9s
JMA III 23 03 24 27.4–.20 38.86N 142.36E 43–3 4.2,3.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ18.00000°,λ-102.00000°. NP2:ϕ_s302.00000°,δ72.00000°,λ-86.00000°. $M_0$5.10000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.3km az=134.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.6km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.2km az=166.8.
MOS Error ellipse: s-maj=6.7km s-min=4.8km az=108.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 23 03 57 47.6–.10 38.82N 142.07E 42–2 3.7
¶602687657
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 23 04 13 11.0–.67 39.76N–.04 142.38E–.04 46–5 4.8b,4.0s 266 0-145
NIED III 23 04 13 00 39.80N 142.40E 41 4.5W,4.0s **¶16342722**
ISCJB III 23 04 13 10.0–.42 39.74N–.03 142.36E–.04 50–2 4.7b,3.9s
BJI III 23 04 13 09.9 39.68N 142.18E 48 5.0b,4.7b
JMA III 23 04 13 10.8–.10 39.76N 142.36E 42–1 4.4,4.7b
MOS III 23 04 13 11.3–.86 39.93N 142.23E 52 4.9b,4.7b
IDC III 23 04 13 13.4–1.9 39.72N 142.30E 66–17 4.4,4.3
NEIC III 23 04 13 13.2–.61 39.74N 142.32E 66–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ17.00000°,λ79.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ93.00000°. $M_0$6.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=32.9.
JMA Event type fe.
MOS Error ellipse: s-maj=7.7km s-min=4.7km az=108.8.
IDC Error ellipse: s-maj=13.5km s-min=10.0km az=117.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=115.0.
(228) Near east coast of eastern Honshu
ISC III 23 04 14 13.0–1.0 37.52N–.06 141.9E–.10 35 4.4b 24 1-146
NIED III 23 04 14 00 37.50N 141.90E 41 4.5W **¶16450721**
ISCJB III 23 04 14 10.8–.64 37.49N–.05 141.98E–.08 35 4.2b
JMA III 23 04 14 12.6–.20 37.54N 141.89E 30 4.3
IDC III 23 04 14 29.8–1.6 37.07N 140.30E 151–14 4.2,4.0
NEIC III 23 04 14 30.2–1.8 37.10N 140.32E 157–16 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ30.00000°,λ-45.00000°. NP2:ϕ_s16.00000°,δ69.00000°,λ-113.00000°. $M_0$5.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=14.2km az=94.0.
NEIC Event type se. Error ellipse: s-maj=20.5km s-min=14.8km az=92.0.
(227) Eastern Honshu
JMA III 23 04 18 02.0 37.03N 140.77E 8–1 2.8
¶603049980
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 23 04 19 05.9–1.0 35.20N–.03 140.99E–.05 31–7 4.5b,4.1s 156 1-148
NIED III 23 04 19 00 35.20N 141.30E 8 4.6W,4.1s **¶16342723**
JMA III 23 04 19 03.8–.10 35.25N 141.22E 32–3 4.6,4.1s
BJI III 23 04 19 05.7 35.02N 140.82E 43 4.9b,4.6b
ISCJB III 23 04 19 06.0–.49 35.10N–.03 140.99E–.04 45–4 4.5b,4.0s
NEIC III 23 04 19 07.7–.69 35.16N 140.96E 44–6 4.7b,4.0s
IDC III 23 04 19 07.9–1.4 35.16N 141.02E 47–13 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ38.00000°,λ-175.00000°. NP2:ϕ_s216.00000°,δ87.00000°,λ-53.00000°. $M_0$1.03000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=166.7.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=108.0. Recorded [1 JMA] in Chiba and Saitama.
IDC Error ellipse: s-maj=13.8km s-min=7.6km az=82.0.
(228) Near east coast of eastern Honshu
ISC III 23 04 35 01.0–2.6 38.38N–.06 142.1E–.10 27–15 3.9b 20 1-68
IDC III 23 04 34 55.5–1.8 38.48N 142.68E 0 3.8,3.7 **¶17198124**
JMA III 23 04 35 01.5–.10 38.39N 142.13E 37–2 4.1,3.7
ISCJB III 23 04 35 01.4–1.6 38.38N–.05 142.1E–.10 44–13 3.7b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 23 04 40 15.9–.80 36.27N–.04 141.07E–.05 26–5 4.3b,3.4s 71 1-147
NIED III 23 04 40 00 36.30N 141.00E 35 4.3W,3.4s **¶16373191**
ISCJB III 23 04 40 15.8–.65 36.29N–.03 141.08E–.05 39–5 4.2b,3.3s
JMA III 23 04 40 16.1–.10 36.31N 141.04E 46–1 4.3,3.3s
NEIC III 23 04 40 17.4–.83 36.20N 141.03E 40–7 4.6b,3.3s
IDC III 23 04 40 19.3–2.1 36.22N 140.98E 55–18 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ22.00000°,λ160.00000°. NP2:ϕ_s17.00000°,δ83.00000°,λ70.00000°. $M_0$2.71000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.5km az=9.4.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=7.0km az=103.0.
IDC Error ellipse: s-maj=14.0km s-min=12.7km az=71.0.
(228) Near east coast of eastern Honshu
JMA III 23 04 47 46.4–.10 37.39N 141.47E 40–2 3.5
¶602688148
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 23 05 17 35.0–1.1 37.19N–.08 141.45E–.08 33 3.7b 16 1-90
IDC III 23 05 17 29.9–1.1 37.13N 141.62E 0 3.9,3.7 **¶602687615**
JMA III 23 05 17 33.4–.30 37.20N 141.48E 37–3 3.6,3.7
ISCJB III 23 05 17 33.2–.83 37.17N–.08 141.54E–.07 33 3.7b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 23 05 17 41.4–.10 38.33N 141.88E 45–2 3.8
¶602687613
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(227) Eastern Honshu
ISC III 23 05 37 21.6–1.2 37.07N–.03 140.74E–.04 1–9 3.4b 22 0-57
ISCJB III 23 05 37 20.8–.75 37.08N–.03 140.82E–.06 8–3 3.4b,2.8s **¶17198132**
IDC III 23 05 37 21.4–1.4 36.90N 140.77E 0 3.7,3.5
JMA III 23 05 37 21.4 37.08N 140.76E 8–1 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.0km az=11.2.
IDC Error ellipse: s-maj=28.6km s-min=24.4km az=155.0.
JMA Event type fe.
(324) Kashmir-Xinjiang border region
ISC III 23 05 55 55.5–.23 36.29N–.03 76.44E–.03 96–1 5.1b 781 3-154
MOS III 23 05 55 52.7–.97 36.32N 76.48E 79 5.3b **¶16342725**
GCMT III 23 05 55 53.8–.50 36.13N 76.51E 77–3 4.8W
ISCJB III 23 05 55 53.8–.11 36.25N–.02 76.48E–.02 94 5.0b
NEIC III 23 05 55 53.8–.48 36.28N 76.49E 77–4 5.1b

BJI III 23 05 55 55.4 36.38N 76.58E 101 4.8b,4.8b
IDC III 23 05 55 56.3–.30 36.30N 76.48E 100–2 5.0,4.8
NNC III 23 05 55 56.2–3.0 36.41N 76.22E 121–18 4.9,4.4b
ISC Event type fe.
MOS Error ellipse: s-maj=5.6km s-min=3.1km az=114.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c27; s62,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.94±.10 $M_{\theta\theta}$-2.22±.11; $M_{\phi\phi}$0.27±.12; $M_{r\theta}$0.18±.10; $M_{\theta\phi}$0.23±.11; $M_{\phi r}$0.18±.08; Best double couple: NP1:ϕ_s89.00000°,δ48.00000°,λ81.00000°. NP2:ϕ_s282.00000°,δ43.00000°,λ100.00000°. Principal axes: T 1.9700,Plg83.0000°,Azm293.0000°; N 0.2760,Plg7.0000°,Azm95.0000°; P -2.2480,Plg2.0000°,Azm185.0000° $M_0$2.10900×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.2km az=41.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=185.0. Felt at Kargil and Srinagar, India.
IDC Error ellipse: s-maj=7.7km s-min=6.6km az=11.0.
NNC Event type se. Error ellipse: s-maj=24.3km s-min=17.1km az=172.0.

(228) Near east coast of eastern Honshu

JMA III 23 07 12 01.0–.10 37.35N 141.36E 35–1 3.6 ¶602687270

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 23 07 16 32.7–.97 36.73N–.04 140.99E–.07 45–8 3.9b 40 0-147
NIED III 23 07 16 00 36.70N 141.00E 50 3.9W **¶16349357**
ISCJB III 23 07 16 31.8–.57 36.71N–.03 141.03E–.06 53–4 3.9b
JMA III 23 07 16 32.7–.10 36.72N 140.98E 49–1 4.0
IDC III 23 07 16 34.2–2.3 36.69N 140.95E 58–23 4.0,3.9
NEIC III 23 07 16 34.6–1.1 36.71N 140.88E 63–11 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ29.00000°,λ-69.00000°. NP2:ϕ_s190.00000°,δ63.00000°,λ-102.00000°. $M_0$9.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.4km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.4km s-min=11.1km az=69.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=9.3km az=57.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC III 23 07 25 17.9–.78 36.84N–.03 140.55E–.05 10 3.4b 16 0-91
NIED III 23 07 25 00 36.80N 140.60E 5 3.6W **¶17198143**
IDC III 23 07 25 16.5–1.1 36.75N 140.57E 0 3.7,3.5
JMA III 23 07 25 17.8 36.84N 140.57E 4–1 3.5,3.5
ISCJB III 23 07 25 17.2–.59 36.82N–.03 140.64E–.07 10 3.4b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ26.00000°,λ-53.00000°. NP2:ϕ_s158.00000°,δ69.00000°,λ-107.00000°. $M_0$2.45000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s190.00000°,δ52.00000°,λ-68.00000°. NP2:ϕ_s336.00000°,δ43.00000°,λ-116.00000°. Principal axes: T Plg5.0000°,Azm264.0000°; N Plg17.0000°,Azm356.0000°; P Plg72.0000°,Azm160.0000°
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 23 08 21 00.9–1.8 37.89N–.07 141.8E–.10 51–16 3.5b 29 1-146
NIED III 23 08 21 00 37.90N 141.80E 59 3.7W **¶600563730**
JMA III 23 08 21 00.7–.10 37.87N 141.82E 47–2 3.9
ISCJB III 23 08 21 00.3–1.0 37.88N–.05 141.8E–.10 61–9 3.7b
IDC III 23 08 21 04.1–3.6 37.82N 141.74E 83–33 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ16.00000°,λ70.00000°. NP2:ϕ_s222.00000°,δ75.00000°,λ95.00000°. $M_0$4.49000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.9km az=27.0.
IDC Error ellipse: s-maj=29.9km s-min=18.2km az=95.0.

(221) Kuril Islands

ISC III 23 08 27 00.6–.55 46.24N–.05 153.07E–.04 31–3 4.8b,4.1s 482 4-149
NIED III 23 08 26 00 46.50N 153.20E 5 4.8W,4.1s **¶16342728**
IDC III 23 08 26 55.9–.49 46.23N 153.06E 0 4.6,4.5
ISCJB III 23 08 26 55.3–.89 46.21N–.03 153.07E–.03 5–5 4.8b,4.1s
JMA III 23 08 26 57.0–.80 46.49N 153.17E 30 4.6,4.1s
NEIC III 23 08 26 59.4–1.8 46.26N 153.04E 20–11 4.9b,4.1s
BJI III 23 08 26 59.8 46.38N 153.01E 36 5.0b,4.9b
SKHL III 23 08 27 01.2–.00 46.29N 153.16E 51–5 5.3b,4.9s
MOS III 23 08 27 01.7–1.3 46.28N 152.97E 52 5.0b,4.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ19.00000°,λ101.00000°. NP2:ϕ_s219.00000°,δ71.00000°,λ86.00000°. $M_0$2.01000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=10.8km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.6km az=159.8.
JMA Error ellipse: s-maj=10.0km s-min=9.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=2.8km az=154.0. Felt [II] at Severo-Kuril'sk.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=109.4. Felt (II) at Severo-Kuril'sk. Moment Tensor Solution.

(228) Near east coast of eastern Honshu

ISC III 23 08 34 05.0–2.5 36.70N–.04 141.84E–.07 30–17 3.9b 48 1-147
IDC III 23 08 34 00.5–.69 36.65N 141.87E 0 4.0,3.9 **¶16462139**
JMA III 23 08 34 04.2–.20 36.71N 141.85E 49–4 4.5,3.9
ISCJB III 23 08 34 04.4–.79 36.70N–.04 141.88E–.06 38–7 3.8b,3.5s
NEIC III 23 08 34 06.4–1.2 36.69N 141.90E 42–11 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=16.6km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.1km az=8.4.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.2km az=105.0.

(228) Near east coast of eastern Honshu

ISC III 23 08 51 27.5–1.2 35.69N–.07 140.92E–.10 28–6 3.4b 14 0-59
JMA III 23 08 51 27.7–.10 35.70N 140.86E 28–1 3.3 **¶17198154**
IDC III 23 08 51 30.9–10 35.63N 140.71E 48–65 3.4,3.4
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=172.6km s-min=33.7km az=65.0.

(161) Off west coast of South Island

WEL III 23 08 57 45.2–.72 46.25S 166.14E 28–2 3.5L ¶600680210

WEL Event type fe. Error ellipse: s-maj=6.7km s-min=2.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC III 23 09 08 56.3–1.6 36.60N–.04 141.22E–.07 27–10 3.8b 32 1-78
NIED III 23 09 08 00 36.60N 141.20E 35 3.9W **¶17198155**
ISCJB III 23 09 08 55.8–.91 36.58N–.04 141.26E–.07 42–8 3.6b
JMA III 23 09 08 56.6–.10 36.61N 141.18E 45–2 4.0
IDC III 23 09 09 00.5–2.0 36.47N 141.10E 70–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ14.00000°,λ68.00000°. NP2:ϕ_s45.00000°,δ77.00000°,λ95.00000°. $M_0$7.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.9km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=10.3km az=75.0.

(228) Near east coast of eastern Honshu

ISC III 23 09 33 07.9–.91 36.85N–.03 140.51E–.05 10 3.7b 20 0-61
IDC III 23 09 33 02.6–3.4 35.37N 140.38E 0 3.7,3.6 **¶17198165**
JMA III 23 09 33 07.4 36.84N 140.54E 9–1 3.2,3.6
ISCJB III 23 09 33 07.4–.57 36.84N–.03 140.55E–.04 10 3.5b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC III 23 09 35 55.7–.48 39.64N–.04 143.43E–.03 23–2 5.1s,5.0b 711 1-145
NIED III 23 09 35 00 39.60N 143.60E 14 5.1W,5.0b **¶16349358**
IDC III 23 09 35 51.5–.48 39.55N 143.48E 0 4.8,4.8
JMA III 23 09 35 52.7–.20 39.62N 143.63E 27 5.2,4.8
ISCJB III 23 09 35 54.1–.69 39.66N–.02 143.34E–.02 19–4 5.0s,5.0b
BJI III 23 09 35 54.2 39.65N 143.23E 21 5.3b,5.2s
MOS III 23 09 35 55.4–.87 39.73N 143.39E 33 5.3b,4.9s
NEIC III 23 09 35 57.0–.72 39.62N 143.27E 27–5 5.0b,4.9s
GCMT III 23 09 35 57.0–.20 39.59N 143.66E 20–0 5.2W,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ29.00000°,λ39.00000°. NP2:ϕ_s36.00000°,δ72.00000°,λ114.00000°. $M_0$5.43000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=10.8km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=153.4.
MOS Error ellipse: s-maj=7.5km s-min=5.0km az=101.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=147.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c74; s105,c173; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.32±.19 $M_{\theta\theta}$-0.33±.10; $M_{\phi\phi}$-3.99±.13; $M_{r\theta}$2.38±.23; $M_{\theta\phi}$-0.66±.07; $M_{\phi r}$5.00±.27; Best double couple: NP1:ϕ_s22.00000°,δ72.00000°,λ97.00000°. NP2:ϕ_s180.00000°,δ20.00000°,λ70.00000°. Principal axes: T 7.1490,Plg63.0000°,Azm303.0000°; N -0.3970,Plg7.0000°,Azm200.0000°; P -6.7540,Plg26.0000°,Azm106.0000° $M_0$6.95200×10^{16}

(162) South Island

WEL III 23 09 48 19.3–.10 43.57S 172.37E 5 3.2L ¶600680211

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(227) Eastern Honshu

ISC III 23 09 55 20.5–.71 37.11N–.03 140.78E–.03 13–4 4.8b,4.2s 543 0-151
NIED III 23 09 55 00 37.10N 140.80E 8 4.4W,4.2s **¶602687050**
IDC III 23 09 55 18.5–.47 37.16N 140.72E 0 4.7,4.7
ISCJB III 23 09 55 20.9–.47 37.14N–.02 140.72E–.03 22–3 4.7b,4.3s
JMA III 23 09 55 20.2 37.11N 140.76E 9–1 4.7,4.3s
BJI III 23 09 55 20.3 36.98N 141.02E 35 5.2b,4.7b
MOS III 23 09 55 23.4–.90 37.37N 140.64E 33 4.9b,4.7b
NEIC III 23 09 55 25.9–.54 37.16N 140.63E 50–5 4.8b,4.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ30.00000°,λ-84.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ-93.00000°. $M_0$5.00000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.1km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=135.2.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ46.00000°,λ-80.00000°. NP2:ϕ_s187.00000°,δ44.00000°,λ-100.00000°. Principal axes: T Plg1.0000°,Azm104.0000°; N Plg7.0000°,Azm194.0000°; P Plg83.0000°,Azm6.0000°
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=91.8.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.2km az=136.0. Recorded [5U JMA] in Fukushima.

(377) Spain

ISC III 23 10 25 54.6–1.3 38.01N–.03 0.50W–.03 11–9 189 1-8
NEIC III 23 10 25 55.4 37.92N 0.36W 0 3.1 **¶16349361**
SFS III 23 10 25 56.0 37.95N 0.43W 11 3.1L
MDD III 23 10 25 56.6–.63 37.97N 0.47W 5–3 3.0
LDG III 23 10 25 56.1–.21 37.95N 0.41W 2 3.1L
INMG III 23 10 25 57.4–1.9 38.00N 0.54W 11–5 3.0L
CSEM III 23 10 25 57.6–.24 38.06N 0.68W 10 3.5L
ISC Event type fe.
NEIC Event type fe. Felt at Torrevieja. After MDD.
SFS Event type ke.
MDD Event type fe. Error ellipse: s-maj=6.0km s-min=2.9km az=131.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=147.0.
INMG Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=122.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.8km az=131.0.

(228) Near east coast of eastern Honshu

JMA III 23 10 28 30.4–.10 38.77N 142.18E 30–2 3.8
NIED III 23 10 28 00 38.80N 142.20E 74 4.6W **¶603049981**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ36.00000°,λ3.00000°. NP2: ϕ_s323.00000°,δ88.00000°,λ126.00000°. $M_0$1.02000×10^{16}

(228) Near east coast of eastern Honshu

ISC III 23 10 43 35.1–.41 36.75N–.03 141.55E–.03 31–2 4.9b,4.4s 774 1-155
NIED III 23 10 43 00 36.70N 141.50E 38 5.0W,4.4s **¶602443855**
BJI III 23 10 43 29.9 36.48N 141.74E 26 5.0b,4.9b
JMA III 23 10 43 35.3–.10 36.68N 141.45E 51–2 5.1,4.9b
NEIC III 23 10 43 36.2–.11 36.67N 141.46E 35 5.1b,4.9b
GCMT III 23 10 43 36.2–.30 36.79N 141.45E 20–1 5.1W,4.9b
ISCJB III 23 10 43 36.1–.41 36.69N–.02 141.44E–.02 49–3 4.9b,4.4s
MOS III 23 10 43 37.3–.75 37.01N 141.37E 48 5.0b,4.2s
IDC III 23 10 43 38.3–1.5 36.68N 141.46E 58–14 4.7,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ10.00000°,λ157.00000°. NP2:ϕ_s327.00000°,δ86.00000°,λ81.00000°. $M_0$3.48000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=147.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c38; s84,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.30±.13 $M_{\theta\theta}$0.95±.09; $M_{\phi\phi}$-0.65±.09; $M_{r\theta}$-2.87±.36; $M_{\theta\phi}$-0.37±.07; $M_{\phi r}$4.70±.59; Best double couple: NP1:ϕ_s148.00000°,δ89.00000°,λ-81.00000°. NP2:ϕ_s245.00000°,δ9.00000°,λ-173.00000°. Principal axes: T 5.4960,Plg43.0000°,Azm229.0000°; N 0.1720,Plg9.0000°,Azm328.0000°; P -5.6680,Plg45.0000°,Azm67.0000° $M_0$5.58200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=150.7.
MOS Error ellipse: s-maj=6.5km s-min=4.8km az=103.7.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=91.0.

(115) Near coast of Peru

ISC III 23 10 55 11.0–.56 14.02S–.08 75.45W–.08 66 4.6b 242 2-169
SCB III 23 10 55 08.9–.48 13.91S 75.39W 55 4.0L **¶16357296**
ISCJB III 23 10 55 08.9–.31 14.07S–.06 75.49W–.05 66 4.5b
BJI III 23 10 55 09.6 14.10S 75.40W 56 5.2b
NEIC III 23 10 55 09.8–.83 14.07S 75.41W 58–7 4.7b
IDC III 23 10 55 10.8–3.1 14.12S 75.50W 70–25 4.3,4.2
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=30.6km s-min=10.5km az=22.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.9km az=38.1.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=4.7km az=222.0. Felt [III] at Ica. Also felt at Lima, San Juan Bautista and Santiago.
IDC Error ellipse: s-maj=28.4km s-min=13.4km az=44.0.

(235) Kyushu

JMA III 23 11 16 46.9 33.37N 130.87E 11 3.5
NIED III 23 11 16 00 33.40N 130.90E 8 3.5W **¶16354008**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ48.00000°,λ-60.00000°. NP2:ϕ_s79.00000°,δ50.00000°,λ-119.00000°. $M_0$2.08000×10^{14}

(238) Ryukyu Islands

ISC III 23 11 31 22.3–1.0 27.46N–.05 128.63E–.07 39–2 3.8b 38 0-77
NIED III 23 11 31 00 27.50N 128.60E 47 4.1W **¶17198181**
ISCJB III 23 11 31 21.6–.34 27.47N–.05 128.64E–.07 50–4 3.7b,2.9s
IDC III 23 11 31 22.5–1.1 27.43N 128.45E 47–13 3.9,3.9L
JMA III 23 11 31 22.1 27.47N 128.63E 43–1 3.9,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ49.00000°,λ36.00000°. NP2:ϕ_s85.00000°,δ63.00000°,λ133.00000°. $M_0$1.84000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=3.3km az=36.8.
IDC Error ellipse: s-maj=52.5km s-min=15.6km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 23 12 19 01.5–.68 35.22N–.03 140.93E–.04 22–4 4.5b,4.1s 190 0-148
NIED III 23 12 19 00 35.20N 141.30E 17 4.6W,4.1s **¶602686731**
JMA III 23 12 19 00.2–.10 35.24N 141.22E 35–2 4.6,4.1s
MOS III 23 12 19 01.0–1.2 35.16N 141.10E 33 4.7b,4.1s
ISCJB III 23 12 19 01.9–.46 35.18N–.02 141.00E–.04 38–4 4.5b,4.1s
IDC III 23 12 19 02.5–4.8 35.20N 141.01E 31–36 4.6L,4.4
BJI III 23 12 19 02.1 35.13N 140.74E 35 5.0b,4.6b
NEIC III 23 12 19 03.1–.17 35.16N 140.97E 35 4.7b,4.6b

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ31.00000°,λ-170.00000°. NP2:ϕ_s204.00000°,δ85.00000°,λ-60.00000°. $M_0$9.69000×10^{15}
JMA Event type fe.
MOS Error ellipse: s-maj=9.7km s-min=5.7km az=115.5.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=15.3.
IDC Error ellipse: s-maj=13.6km s-min=11.8km az=114.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=4.1km az=161.0. Recorded [1 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 12 28 49.0–1.8**	**36.67N–.04**	**141.47E–.08**	**29–12**	**4.0b**	**42**	**1-147**
NIED	III	23 12 28 00	36.70N	141.40E	23	3.8W		¶16480442
IDC	III	23 12 28 44.2–.68	36.60N	141.48E	0	4.0,3.8		
JMA	III	23 12 28 49.6–.10	36.69N	141.43E	51–2	4.0,3.8		
ISCJB	III	23 12 28 49.2–.82	36.64N–.03	141.46E–.09	48–7	3.8b,3.8		
NEIC	III	23 12 28 52.5–1.1	36.63N	141.38E	62–11	4.1b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ28.00000°,λ-92.00000°. NP2:ϕ_s235.00000°,δ62.00000°,λ-89.00000°. $M_0$6.30000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=16.8km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.1km az=6.3.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=8.6km az=95.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 13 19 16.7–.83**	**36.42N–.05**	**141.05E–.06**	**32**	**3.7b**	**21**	**1-78**
NIED	III	23 13 19 00	36.40N	141.10E	26	3.6W		¶17198202
IDC	III	23 13 19 11.6–.90	36.32N	141.17E	0	3.8,3.6L		
ISCJB	III	23 13 19 15.0–.61	36.36N–.04	141.20E–.06	32	3.6b,3.6L		
JMA	III	23 13 19 16.5–.10	36.38N	141.09E	46–1	3.7,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ18.00000°,λ-125.00000°. NP2:ϕ_s178.00000°,δ76.00000°,λ-80.00000°. $M_0$2.81000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=20.7km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=6.4km az=5.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**23 13 21 40.0–.10**	**35.72N**	**140.91E**	**10–1**	**3.5**		
NIED	III	23 13 21 00	35.70N	140.90E	8	3.6W		¶602687346

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ45.00000°,λ-84.00000°. NP2:ϕ_s186.00000°,δ45.00000°,λ-96.00000°. $M_0$2.43000×10^{14}

(229) Off east coast of Honshu

ISC	**III**	**23 13 56 27.4–.43**	**37.66N–.04**	**142.84E–.03**	**34–1**	**5.0b,4.8s**	**839**	**1-154**
NIED	III	23 13 56 00	37.60N	142.90E	20	5.0W,4.8s		¶16350032
ISCJB	III	23 13 56 24.3–.75	37.66N–.02	142.81E–.02	20–5	5.0b,4.8s		
BJI	III	23 13 56 25.1	37.68N	142.80E	32	5.0b,5.0s		
MOS	III	23 13 56 25.6–.99	37.75N	142.87E	33	5.2b,4.8s		
JMA	III	23 13 56 25.4–.30	37.64N	142.86E	38	5.2,4.8s		
GCMT	III	23 13 56 27.8–.30	37.75N	142.96E	20–0	5.0W,4.8s		
NEIC	III	23 13 56 27.8–.55	37.65N	142.81E	34–3	5.1b,4.8s		
IDC	III	23 13 56 27.8–3.3	37.65N	142.87E	33–24	4.8,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ43.00000°,λ-99.00000°. NP2:ϕ_s212.00000°,δ48.00000°,λ-82.00000°. $M_0$2.99000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=165.9.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=103.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c51; s87,c140; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.76±.17 $M_{\theta\theta}$0.90±.10; $M_{\phi\phi}$2.86±.11; $M_{r\theta}$0.12±.21; $M_{\theta\phi}$1.40±.06; $M_{\phi r}$-1.10±.18; Best double couple: NP1:ϕ_s19.00000°,δ53.00000°,λ-100.00000°. NP2:ϕ_s216.00000°,δ39.00000°,λ-77.00000°. Principal axes: T 3.7040,Plg7.0000°,Azm116.0000°; N 0.2540,Plg8.0000°,Azm25.0000°; P -3.9630,Plg79.0000°,Azm247.0000° $M_0$3.83300×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=151.0.
IDC Error ellipse: s-maj=11.2km s-min=8.7km az=111.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 14 48 10.9–.87**	**37.61N–.04**	**141.89E–.05**	**29–5**	**4.7b,3.6s**	**218**	**1-155**
NIED	III	23 14 48 00	37.60N	141.90E	11	4.4W,3.6s		¶17198209
BJI	III	23 14 48 04.7	37.18N	141.79E	10	4.9b,4.7b		
IDC	III	23 14 48 06.3–.51	37.54N	141.91E	0	4.6,4.5		
NEIC	III	23 14 48 07.7–.72	37.56N	141.95E	9–4	4.8b,4.5		
ISCJB	III	23 14 48 08.1–.85	37.60N–.03	141.96E–.04	22–5	4.6b,3.5s		
JMA	III	23 14 48 09.0–.20	37.58N	141.89E	18–3	4.6,3.5s		
MOS	III	23 14 48 10.5–1.2	37.75N	141.85E	33	4.8b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ38.00000°,λ-119.00000°. NP2:ϕ_s82.00000°,δ57.00000°,λ-69.00000°. $M_0$4.95000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=13.4km az=75.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=42.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=113.3.

(228) Near east coast of eastern Honshu

JMA	**III**	**23 14 50 51.3–.20**	**35.74N**	**140.87E**	**7–1**	**3.6**	
							¶602686373

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 15 09 09.4–2.6**	**37.25N–.06**	**141.41E–.09**	**3–14**	**3.3b**	**19**	**1-61**
NIED	III	23 15 09 00	37.30N	141.20E	35	3.7W		¶17198212
IDC	III	23 15 09 08.0–2.7	37.31N	141.82E	0	4.0s,4.0		
JMA	III	23 15 09 14.7–.10	37.26N	141.23E	37–1	3.8,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ28.00000°,λ-87.00000°. NP2:ϕ_s217.00000°,δ62.00000°,λ-92.00000°. $M_0$4.47000×10^{14}
IDC Error ellipse: s-maj=68.0km s-min=29.1km az=54.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 15 21 29.0–1.6**	**39.07N–.04**	**142.44E–.07**	**20–8**	**4.1b,3.3s**	**28**	**1-84**
NIED	III	23 15 21 00	39.10N	142.40E	38	3.9W,3.3s		¶16450725
JMA	III	23 15 21 30.2–.10	39.12N	142.44E	31–2	3.7,3.3s		
NEIC	III	23 15 21 31.7–.86	39.04N	142.52E	44–8	4.2b,3.3s		
IDC	III	23 15 21 33.0–4.0	39.06N	142.47E	54–38	3.9,3.8L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ35.00000°,λ-51.00000°. NP2:ϕ_s287.00000°,δ63.00000°,λ-114.00000°. $M_0$8.36000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=6.6km az=106.0.
IDC Error ellipse: s-maj=24.7km s-min=15.5km az=97.0.

(370) Crete

ISC	**III**	**23 15 30 50.9–1.1**	**34.66N–.03**	**25.06E–.02**	**6–6**	**4.0b,3.4s**	**339**	**0-118**
BJI	III	23 15 30 48.8	34.70N	25.10E	5	4.4b,4.2		¶16357300
ISCJB	III	23 15 30 49.0–.68	34.53N–.02	25.14E–.02	5–4	4.0b,3.5s		
IDC	III	23 15 30 50.4–.66	34.72N	25.13E	0	4.2,4.1L		
CSEM	III	23 15 30 50.5–.18	34.57N	25.10E	2	4.1L,4.1L		
NEIC	III	23 15 30 51.2–1.1	34.66N	25.06E	2–6	4.5L,4.1b		
ATH	III	23 15 30 52.2	34.77N	25.02E	8–1	3.9L,4.1b		
THE	III	23 15 30 52.8	34.82N	25.04E	15–0	4.1L,4.1b		
NSSC	III	23 15 30 54.8–1.4	34.89N	25.62E	0–129	3.1L,2.7		
HLW	III	23 15 30 55.1	34.38N	25.39E	10–11	3.4L,3.2		
DDA	III	23 15 31 25.5	35.80N	27.56E	36	3.4L,3.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=19.3.
IDC Error ellipse: s-maj=13.7km s-min=8.6km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=23.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.4km az=188.0. Felt at Moirai.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=359.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=3.0.
NSSC Error ellipse: s-maj=13.0km s-min=231.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**23 16 10 28.2–.10**	**38.96N**	**142.40E**	**31–2**	**3.6**		
								¶602686189

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**23 16 16 59.4–.10**	**36.46N**	**140.84E**	**28–1**	**3.0**		
								¶602686952

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 16 17 44.5–1.2**	**35.74N–.07**	**140.90E–.08**	**11–6**	**3.5b**	**15**	**0-56**
NIED	III	23 16 17 00	35.70N	140.90E	8	3.8W		¶17198220
IDC	III	23 16 17 42.9–1.5	35.63N	140.86E	0	3.6,3.4		
ISCJB	III	23 16 17 43.5–1.2	35.77N–.06	140.96E–.08	12–5	3.4b,3.4		
JMA	III	23 16 17 45.2–.10	35.73N	140.88E	8–1	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ33.00000°,λ-132.00000°. NP2:ϕ_s195.00000°,δ66.00000°,λ-67.00000°. $M_0$5.31000×10^{14}
IDC Error ellipse: s-maj=34.4km s-min=30.1km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.5km az=160.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 16 54 24.0–.54**	**36.17N–.05**	**141.07E–.06**	**31**	**3.9b**	**43**	**0-83**
IDC	III	23 16 54 19.6–.66	36.14N	141.09E	0	3.9,3.8		¶602686154
ISCJB	III	23 16 54 22.0–.39	36.14N–.04	141.14E–.05	31	3.8b,3.8		
JMA	III	23 16 54 22.9–.10	36.18N	141.05E	39–1	4.4,3.8		
NEIC	III	23 16 54 24.3–.35	36.06N	141.05E	35	4.3b,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=14.6km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.4km az=12.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.5km az=96.0.

(229) Off east coast of Honshu

ISC	**III**	**23 17 01 58.0–.57**	**39.48N–.05**	**143.68E–.05**	**11**	**4.7b,4.3s**	**161**	**1-145**
NIED	III	23 17 01 00	39.40N	143.90E	14	4.6W,4.3s		¶17198225
JMA	III	23 17 01 54.0–.30	39.42N	143.87E	0	4.6,4.3s		
ISCJB	III	23 17 01 57.8–.31	39.51N–.04	143.53E–.04	11	4.6b,4.2s		
IDC	III	23 17 01 57.2–.65	39.41N	143.54E	0	4.5,4.4		
NEIC	III	23 17 01 59.4–2.9	39.43N	143.49E	11–17	4.8b,4.4		
MOS	III	23 17 02 01.8–1.1	39.66N	143.38E	33	4.8b,4.4		
BJI	III	23 17 02 04.7	39.56N	142.90E	38	5.0b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ37.00000°,λ92.00000°. NP2:ϕ_s17.00000°,δ53.00000°,λ89.00000°. $M_0$8.97000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.6km az=135.9.
IDC Error ellipse: s-maj=16.0km s-min=12.1km az=152.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.5km az=143.0.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=106.9.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 17 01 57.7–.97**	**36.78N–.03**	**140.54E–.05**	**11–7**	**3.7b**	**22**	**0-63**
IDC	III	23 17 01 55.4–1.7	36.84N	140.65E	0	3.9s,3.9		¶16480475
ISCJB	III	23 17 01 56.8–.72	36.75N–.03	140.68E–.06	18–4	4.1s,3.8b		
JMA	III	23 17 01 57.8	36.78N	140.56E	8–1	3.9,3.8b		

ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=22.4km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.3km az=14.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s154.00000°,δ52.00000°,λ-76.00000°. NP2:ϕ_s311.00000°,δ40.00000°,λ-108.00000°. Principal axes: T Plg6.0000°,Azm234.0000°; N Plg11.0000°,Azm325.0000°; P Plg77.0000°,Azm116.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**23 17 35 14.8–1.8**	**37.69N–.04**	**141.85E–.06**	**2–11**	**4.2b**	**57**	**1-146**
NIED	III	23 17 35 00	37.60N	141.90E	8	4.2W		¶16480482
JMA	III	23 17 35 15.4–.20	37.58N	141.93E	20–3	4.2		
ISCJB	III	23 17 35 15.6–1.1	37.60N–.04	141.94E–.06	20–7	4.2b		
IDC	III	23 17 35 15.1–.72	37.75N	141.86E	0	4.2,4.1		
NEIC	III	23 17 35 17.4–3.6	37.71N	141.77E	16–23	4.7b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ42.00000°,λ-119.00000°. NP2:ϕ_s79.00000°,δ54.00000°,λ-66.00000°. $M_0$2.20000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.0km az=28.8.
IDC Error ellipse: s-maj=18.0km s-min=15.1km az=149.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.5km az=135.0.

(249) Luzon

ISC	**III**	**23 17 37 29.8–.47**	**17.22N–.04**	**121.17E–.05**	**32**	**4.0b**	**46**	**1-89**
IDC	III	23 17 37 25.1–.63	17.12N	121.46E	0	4.2,4.0		¶16480483
MAN	III	23 17 37 27	17.39N	121.01E	31	4.7b,4.3s		
ISCJB	III	23 17 37 29.1–.32	17.29N–.03	121.16E–.04	32	4.0b,3.0s		
NEIC	III	23 17 37 30.5–.89	17.09N	121.40E	40–9	4.2b,3.0s		

ISC Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=14.0km az=78.0.
MAN Event type fe. INTENSITY III - TABUK KALINGA.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=171.9.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.4km az=85.0. Felt [III PIVS] at Lubuagan, Tabuk and Tinglayan.

(229) Off east coast of Honshu

ISC	**III**	**23 18 30 48.1–.59**	**39.80N–.04**	**143.47E–.05**	**22–3**	**4.9b,4.2s**	**240**	**1-144**
NIED	III	23 18 30 00	39.70N	143.60E	23	4.7W,4.2s		¶16352083
ISCJB	III	23 18 30 43.2–1.1	39.74N–.03	143.55E–.04	2–6	4.7b,4.2s		
JMA	III	23 18 30 44.2–.30	39.76N	143.63E	12	4.7,4.2s		
IDC	III	23 18 30 44.6–.52	39.71N	143.42E	0	4.5,4.4		
BJI	III	23 18 30 46.0	39.73N	143.18E	15	4.9b,4.8b		
NEIC	III	23 18 30 48.0–1.9	39.73N	143.39E	20–13	4.8b,4.8b		
MOS	III	23 18 30 48.5–1.1	39.88N	143.38E	33	5.0b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ29.00000°,λ89.00000°. NP2:ϕ_s26.00000°,δ61.00000°,λ91.00000°. $M_0$1.20000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=43.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=11.5km az=118.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=122.0.
MOS Error ellipse: s-maj=7.4km s-min=4.6km az=107.2.

(229) Off east coast of Honshu

ISC	**III**	**23 18 39 36.3–.89**	**39.63N–.04**	**143.46E–.05**	**14–4**	**4.6b,3.6s**	**134**	**1-154**
NIED	III	23 18 39 00	39.70N	143.60E	23	4.4W,3.6s		¶16352084
ISCJB	III	23 18 39 33.3–1.2	39.64N–.03	143.62E–.04	5–7	4.5b,3.8s		
JMA	III	23 18 39 33.2–.20	39.68N	143.66E	5	4.6,3.8s		
IDC	III	23 18 39 34.7–.58	39.68N	143.41E	0	4.4,4.3		
BJI	III	23 18 39 34.5	39.66N	143.47E	15	4.9b,4.6b		
NEIC	III	23 18 39 38.5–2.3	39.70N	143.44E	24–16	4.7b,4.6b		
MOS	III	23 18 39 38.2–1.0	39.72N	143.41E	33	4.8b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ28.00000°,λ92.00000°. NP2:ϕ_s25.00000°,δ62.00000°,λ89.00000°. $M_0$3.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=141.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=12.2km az=134.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=123.0.
MOS Error ellipse: s-maj=7.9km s-min=5.1km az=101.2.

(229) Off east coast of Honshu

ISC	**III**	**23 19 20 07.6–2.1**	**37.66N–.05**	**142.47E–.07**	**3–12**	**3.6b**	**32**	**1-62**
NIED	III	23 19 20 00	37.70N	142.30E	38	3.9W		¶17198236
IDC	III	23 19 20 07.5–1.1	37.69N	142.51E	0	3.7,3.7		
JMA	III	23 19 20 12.0–.20	37.73N	142.31E	27–5	4.0,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ49.00000°,λ-165.00000°. NP2:ϕ_s65.00000°,δ79.00000°,λ-42.00000°. $M_0$7.02000×10^{14}
IDC Error ellipse: s-maj=26.8km s-min=17.2km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**23 19 46 52.8–1.0**	**36.70N–.04**	**140.62E–.05**	**10–6**	**3.6b**	**23**	**0-60**

NIED III 23 19 46 00 36.70N 140.70E 5 3.4W ¶16354012
IDC III 23 19 46 51.0–1.3 36.70N 140.64E 0 3.7,3.5
ISCJB III 23 19 46 51.5–.87 36.65N–.04 140.73E–.06 13–4 3.5b,3.5
JMA III 23 19 46 53.0 36.70N 140.63E 6–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ37.00000°,λ-51.00000°. NP2:ϕ_s139.00000°,δ62.00000°,λ-115.00000°. $M_0$1.67000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=21.3km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.6km az=30.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 23 19 49 15.7–2.2 39.16N–.05 142.42E–.09 25–14 3.9b 37 1-73
NIED III 23 19 49 00 39.20N 142.40E 38 3.9W ¶17198237
JMA III 23 19 49 16.5–.10 39.16N 142.36E 34–1 4.0
IDC III 23 19 49 19.3–2.8 39.03N 142.36E 61–25 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ17.00000°,λ-133.00000°. NP2:ϕ_s175.00000°,δ77.00000°,λ-78.00000°. $M_0$8.23000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=14.4km az=113.0.

(244) Taiwan

ISC III 23 20 27 38.1–.87 22.53N–.02 120.64E–.03 36–1 3.8b 127 0-85
NEIC III 23 20 27 29.3–1.8 22.29N 120.27E 10 4.0b ¶16352085
IDC III 23 20 27 32.1–.93 22.41N 120.90E 0 3.8,3.7
JMA III 23 20 27 35.8–.10 22.40N 120.72E 45–2 4.3,3.7
TAP III 23 20 27 37.4 22.55N 120.68E 36–0 4.1L,3.7
ISCJB III 23 20 27 37.0–.31 22.51N–.02 120.69E–.02 51–2 3.6b,3.7
ISC Event type se.
NEIC Event type fe. Recorded [2 TAP] in Kaohsiung, Pingtung and Taitung.
TAP B.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 23 20 28 44.4–1.7 35.96N–.04 141.25E–.07 13–10 4.0b 42 0-147
NIED III 23 20 28 00 35.90N 141.20E 11 4.0W ¶16480509
ISCJB III 23 20 28 41.9–1.2 35.94N–.03 141.41E–.05 11–7 4.0b
IDC III 23 20 28 42.5–.69 35.92N 141.24E 0 4.1,4.0
JMA III 23 20 28 45.1–.10 35.94N 141.22E 26–2 4.2,4.0
NEIC III 23 20 28 47.2–.49 35.88N 141.15E 35 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ66.00000°,λ9.00000°. NP2:ϕ_s149.00000°,δ81.00000°,λ156.00000°. $M_0$1.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=176.9.
IDC Error ellipse: s-maj=21.3km s-min=14.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.5km az=77.0.

(228) Near east coast of eastern Honshu

ISC III 23 20 31 04.7–3.2 36.6N–.10 141.1E–.10 30–15 3.2b 16 0-44
IDC III 23 20 30 50.3–6.4 35.50N 141.94E 0 3.6,3.6 ¶17198248
JMA III 23 20 31 05.3–.10 36.61N 141.10E 45–1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=105.4km s-min=93.1km az=172.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 23 20 32 56.2–.33 36.24N–.03 140.95E–.04 32–2 5.0b,4.3s 527 0-147
NIED III 23 20 32 00 36.20N 140.90E 35 4.7W,4.3s ¶16352086
IDC III 23 20 32 51.4–.42 36.21N 140.91E 0 4.8,4.7
MOS III 23 20 32 54.9–1.0 36.30N 140.93E 33 5.1b,4.7
BJI III 23 20 32 54.5 36.14N 141.06E 43 4.9b,4.8b
ISCJB III 23 20 32 56.5–.37 36.21N–.02 140.87E–.03 44–3 4.9b,4.5s
JMA III 23 20 32 56.1–.10 36.23N 140.94E 45–1 4.7,4.5s
GCMT III 23 20 32 58.2–.60 36.08N 141.26E 44–1 4.9W,4.5s
NEIC III 23 20 32 58.2–.34 36.21N 140.80E 46–3 5.0b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ19.00000°,λ61.00000°. NP2:ϕ_s28.00000°,δ74.00000°,λ100.00000°. $M_0$1.14000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=10.2km az=105.0.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=103.3.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.3km az=146.6.
JMA Event type fe.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c37; s49,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.58±.19 $M_{\theta\theta}$-0.64±.12; $M_{\phi\phi}$-1.94±.11; $M_{r\theta}$0.62±.11; $M_{\theta\phi}$-0.57±.07; $M_{\phi r}$0.93±.08; Best double couple: NP1:ϕ_s26.00000°,δ57.00000°,λ95.00000°. NP2:ϕ_s197.00000°,δ33.00000°,λ83.00000°. Principal axes: T 2.8340,Plg77.0000°,Azm310.0000°; N -0.4350,Plg4.0000°,Azm203.0000° ; P -2.3940,Plg12.0000°,Azm112.0000° $M_0$2.61400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=153.0. Recorded [4 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC III 23 20 43 12.7–.42 35.91N–.03 141.33E–.04 20–1 5.0b,4.6s 409 0-147
NIED III 23 20 43 00 36.00N 141.40E 11 5.1W,4.6s ¶600564448
BJI III 23 20 43 06.9 35.51N 141.82E 35 5.1b,5.0s
IDC III 23 20 43 09.3–.43 35.88N 141.25E 0 4.6,4.6
JMA III 23 20 43 10.7–.20 35.96N 141.26E 27–2 5.2,4.6
ISCJB III 23 20 43 10.9–.87 35.92N–.02 141.20E–.03 15–5 4.9b,4.6s
MOS III 23 20 43 12.9–1.1 35.91N 141.17E 33 5.0b,4.5s
GCMT III 23 20 43 13.3–.20 35.94N 141.22E 21–0 5.1W,4.5s
NEIC III 23 20 43 13.3–1.7 35.92N 141.15E 21–11 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ75.00000°,λ10.00000°. NP2:ϕ_s147.00000°,δ80.00000°,λ164.00000°. $M_0$4.61000×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=10.4km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=146.3.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=112.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c79; s103,c177; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.10±.14 $M_{\theta\theta}$-4.06±.11; $M_{\phi\phi}$5.15±.13; $M_{r\theta}$0.77±.20; $M_{\theta\phi}$3.47±.10; $M_{\phi r}$-1.94±.21; Best double couple: NP1:ϕ_s335.00000°,δ86.00000°,λ-159.00000°. NP2:ϕ_s243.00000°,δ69.00000°,λ-4.00000°. Principal axes: T 6.6470,Plg12.0000°,Azm107.0000°; N -1.0200,Plg69.0000°,Azm344.0000° ; P -5.6370,Plg17.0000°,Azm201.0000° $M_0$6.14200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC III 23 20 48 51.4–.62 39.71N–.06 142.66E–.07 29 3.9b 43 1-88
NIED III 23 20 48 00 39.70N 142.70E 44 4.3W ¶16462132
ISCJB III 23 20 48 49.3–.47 39.66N–.05 142.80E–.06 29 3.9b
JMA III 23 20 48 50.8–.30 39.65N 142.71E 31–3 4.1
IDC III 23 20 48 55.3–2.7 39.63N 142.63E 67–24 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ9.00000°,λ119.00000°. NP2:ϕ_s13.00000°,δ82.00000°,λ85.00000°. $M_0$3.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.1km az=149.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=14.9km az=128.0.

(228) Near east coast of eastern Honshu

ISC III 23 20 58 18.5–.39 38.27N–.04 142.32E–.04 24 4.5b 142 1-145
NIED III 23 20 58 00 38.30N 142.30E 32 4.3W ¶16352088
ISCJB III 23 20 58 16.7–.27 38.29N–.03 142.43E–.03 24 4.4b,4.1s
MOS III 23 20 58 19.0–1.1 38.41N 142.30E 36 4.7b,4.1s
JMA III 23 20 58 20.0–.20 38.34N 142.26E 39–2 4.3,4.1s
NEIC III 23 20 58 20.8–.65 38.30N 142.28E 41–6 4.6b,4.1s
IDC III 23 20 58 21.5–1.6 38.27N 142.24E 47–15 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ37.00000°,λ-106.00000°. NP2:ϕ_s57.00000°,δ54.00000°,λ-78.00000°. $M_0$2.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=154.6.
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=89.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=123.0.
IDC Error ellipse: s-maj=12.5km s-min=10.5km az=122.0.

(228) Near east coast of eastern Honshu

ISC III 23 21 11 32.3–1.0 36.72N–.06 140.61E–.05 10–7 3.5b 24 0-78
IDC III 23 21 11 30.8–.85 36.73N 140.63E 0 3.7,3.5 ¶600564467
ISCJB III 23 21 11 31.6–.76 36.66N–.04 140.71E–.06 17–5 3.4b,3.4s
JMA III 23 21 11 33.0 36.71N 140.59E 8–1 3.5,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=18.0km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.5km az=20.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 23 21 28 15.9–1.7 36.54N–.05 141.85E–.05 4–9 4.3b,4.0s 97 1-147
NIED III 23 21 28 00 36.60N 141.70E 29 4.0W,4.0s ¶16357302
BJI III 23 21 28 13.4 36.31N 142.50E 34 4.9b,4.6b
IDC III 23 21 28 15.1–.59 36.55N 141.75E 0 4.2,4.2
JMA III 23 21 28 19.8–.20 36.56N 141.75E 53–5 4.2,4.2
NEIC III 23 21 28 21.9–.85 36.59N 141.79E 49–7 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ35.00000°,λ-102.00000°. NP2:ϕ_s43.00000°,δ55.00000°,λ-82.00000°. $M_0$1.15000×10^{15}
IDC Error ellipse: s-maj=16.9km s-min=13.7km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=136.0.

(228) Near east coast of eastern Honshu

ISC III 23 21 44 32.1–2.3 39.53N–.06 142.59E–.09 3–12 3.6b 23 1-60
NIED III 23 21 44 00 39.50N 142.60E 29 3.6W ¶17198252
IDC III 23 21 44 30.5–2.7 39.73N 142.84E 0 3.7,3.6
ISCJB III 23 21 44 32.3–1.6 39.52N–.06 142.69E–.09 19–9 3.4b,3.6
JMA III 23 21 44 33.3–.10 39.49N 142.63E 25–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ31.00000°,λ-126.00000°. NP2:ϕ_s176.00000°,δ65.00000°,λ-71.00000°. $M_0$3.25000×10^{14}
IDC Error ellipse: s-maj=69.4km s-min=26.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=9.5km az=171.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(238) Ryukyu Islands

ISC III 23 22 27 32.2–.52 28.33N–.04 128.88E–.04 82–5 4.2b 116 0-151
NIED III 23 22 27 00 28.40N 128.80E 74 4.4W ¶16357303
BJI III 23 22 27 29.2 28.08N 129.09E 90 4.5b,4.4b
ISCJB III 23 22 27 31.6–.22 28.32N–.03 128.95E–.04 92–2 4.3b,4.4b
NEIC III 23 22 27 32.7–.66 28.22N 128.85E 86–7 4.7b,4.4b
JMA III 23 22 27 32.5–.20 28.41N 128.79E 71–3 4.2,4.4b
IDC III 23 22 27 33.1–.76 28.33N 128.79E 92–8 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ51.00000°,λ-36.00000°. NP2:ϕ_s285.00000°,δ63.00000°,λ-135.00000°. $M_0$4.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.1km az=30.4.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=6.8km az=121.0. Recorded [2 JMA] on Amami-oshima, Kikaiga-shima, Tokuno-shima and Yoro-shima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=7.6km az=102.0.

(227) Eastern Honshu

ISC III 23 23 02 20.5–.94 37.05N–.04 140.67E–.06 9–7 3.5b 21 0-69
NIED III 23 23 02 00 37.00N 140.80E 5 3.6W ¶17198257
ISCJB III 23 23 02 19.6–.99 37.01N–.04 140.93E–.08 15–6 3.6b
IDC III 23 23 02 19.5–1.5 37.16N 140.72E 0 3.8,3.7b
JMA III 23 23 02 20.9 37.02N 140.77E 10–1 3.7,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ37.00000°,λ-105.00000°. NP2:ϕ_s59.00000°,δ54.00000°,λ-79.00000°. $M_0$3.00000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.5km az=14.8.
IDC Error ellipse: s-maj=32.2km s-min=17.0km az=153.0.
JMA Event type fe.

(238) Ryukyu Islands

JMA III 23 23 03 19.5–.10 29.10N 129.43E 36 3.6
NIED III 23 23 03 00 29.10N 129.50E 5 3.7W ¶600564609
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ34.00000°,λ-103.00000°. NP2:ϕ_s301.00000°,δ57.00000°,λ-81.00000°. $M_0$3.46000×10^{14}

(228) Near east coast of eastern Honshu

ISC III 23 23 35 00.1–2.2 38.34N–.06 142.32E–.07 8–12 3.6b 26 1-89
IDC III 23 23 34 58.5–.89 38.23N 142.45E 0 3.7,3.6 ¶600564639
JMA III 23 23 35 01.3–.20 38.33N 142.28E 20–2 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=20.3km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC III 23 23 56 49.6–.36 36.16N–.03 140.10E–.04 58–3 4.9b,3.9s 478 0-149
NIED III 23 23 56 00 36.20N 140.10E 53 4.8W,3.9s ¶602443863
IDC III 23 23 56 41.9–.39 36.21N 139.95E 0 5.6L,4.9
BJI III 23 23 56 43.3 36.08N 140.59E 59 5.0b,4.8b
ISCJB III 23 23 56 49.4–.30 36.14N–.02 139.89E–.03 66–2 4.8b,4.8b
MOS III 23 23 56 49.0–.95 36.30N 139.93E 60 5.1b,4.8b
JMA III 23 23 56 49.4–.10 36.18N 140.04E 52–1 4.8,4.8b
NEIC III 23 23 56 51.3–.40 36.17N 139.88E 70–3 4.9b,4.8b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ22.00000°,λ110.00000°. NP2:ϕ_s55.00000°,δ69.00000°,λ82.00000°. $M_0$1.59000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=9.8km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.4km az=137.9.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=114.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s58.00000°,δ73.00000°,λ84.00000°. NP2: ϕ_s258.00000°,δ18.00000°,λ109.00000°. Principal axes: T Plg61.0000°,Azm320.0000° ; N Plg6.0000°,Azm60.0000°; P Plg28.0000°,Azm153.0000°
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=155.0. Felt [III] at Tokyo. Also felt at Fujisawa, Narita, Oyama, Sagamihara, Tsukuba and Yashio. Recorded [5L JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC III 24 00 35 18.6–.74 39.53N–.05 142.74E–.04 14–3 4.5b,3.8s 116 1-145
NIED III 24 00 35 00 39.50N 142.70E 11 4.3W,3.8s ¶16357304
JMA III 24 00 35 18.0–.20 39.47N 142.73E 24–2 4.2,3.8s
ISCJB III 24 00 35 18.1–.89 39.47N–.04 142.73E–.04 23–6 4.4b,3.6s
NEIC III 24 00 35 21.6–.26 39.48N 142.63E 35 4.6b,3.6s
IDC III 24 00 35 23.5–2.6 39.42N 142.67E 57–24 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ30.00000°,λ-103.00000°. NP2:ϕ_s107.00000°,δ61.00000°,λ-82.00000°. $M_0$2.71000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.3km az=147.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=150.0.
IDC Error ellipse: s-maj=16.2km s-min=12.4km az=145.0.

(228) Near east coast of eastern Honshu

ISC III 24 01 11 16.8–.78 38.36N–.06 142.18E–.08 37–2 4.0b 41 1-145
NIED III 24 01 11 00 38.30N 142.20E 32 3.9W ¶602690818
IDC III 24 01 11 10.9–.74 38.27N 142.28E 0 4.0,3.9
JMA III 24 01 11 14.8–.20 38.33N 142.25E 33–3 4.1,3.9
ISCJB III 24 01 11 14.1–1.5 38.30N–.04 142.29E–.06 33–9 4.0b,3.9s
NEIC III 24 01 11 16.1–2.9 38.31N 142.30E 35–21 4.6b,3.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ48.00000°,λ-54.00000°. NP2:ϕ_s59.00000°,δ53.00000°,λ-123.00000°. $M_0$8.32000×10^{14}
IDC Error ellipse: s-maj=18.1km s-min=17.7km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.2km az=38.7.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.6km az=124.0.

(228) Near east coast of eastern Honshu

ISC III 24 01 35 18.2–1.0 36.22N–.05 140.92E–.08 32 3.3b 15 0-50
NIED III 24 01 35 00 36.20N 140.90E 47 3.8W ¶17198267
IDC III 24 01 35 10.8–4.7 35.86N 141.08E 0 3.6,3.6L
ISCJB III 24 01 35 16.7–.88 36.25N–.05 140.99E–.08 32 3.3b,3.6L

JMA III 24 01 35 17.7–.10 36.23N 140.89E 45–1 3.5,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ12.00000°,λ96.00000°. NP2:ϕ_s21.00000°,δ78.00000°,λ89.00000°. $M_0$4.93000×10^{14}
IDC Error ellipse: s-maj=103.3km s-min=32.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.8km az=162.9.
JMA Event type fe.

(49) Gulf of California

ISC	**III**	**24 02 04 34.4–.81**	**27.17N–.05**	**111.96W–.06**	**10**	**3.7b**	**33**	**0-44**
ISCJB	III	24 02 04 33.3–.65	27.19N–.05	111.95W–.04	10	3.6b,3.4s		**¶16357305**
IDC	III	24 02 04 33.4–1.5	27.14N	111.93W	0	4.0,3.8		
MEX	III	24 02 04 34.2–.62	27.09N	112.08W	10	4.0,3.8		
NEIC	III	24 02 04 35.1–1.1	27.13N	111.98W	10	4.1b,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.1km az=10.4.
IDC Error ellipse: s-maj=22.3km s-min=14.7km az=38.0.
MEX Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.3km s-min=10.6km az=47.0. Felt [III] at Mulege, Baja California Sur. Also felt at Santa Rosalia.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 02 33 14.2–.88**	**35.76N–.04**	**140.74E–.06**	**44–8**	**4.0b,3.3s**	**40**	**0-81**
NIED	III	24 02 33 00	35.70N	140.70E	50	4.1W,3.3s		**¶16452777**
ISCJB	III	24 02 33 13.9–.47	35.76N–.04	140.64E–.08	57–4	4.0b,3.0s		
JMA	III	24 02 33 14.2–.10	35.74N	140.66E	47–1	3.6,3.0s		
NEIC	III	24 02 33 14.9–.82	35.63N	140.61E	53–7	4.4b,3.0s		
IDC	III	24 02 33 16.0–3.0	35.72N	140.55E	58–26	3.9,3.8L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ24.00000°,λ88.00000°. NP2:ϕ_s2.00000°,δ66.00000°,λ91.00000°. $M_0$1.71000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.8km az=174.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s13.00000°,δ86.00000°,λ93.00000°. NP2: ϕ_s152.00000°,δ5.00000°,λ49.00000°. Principal axes: T Plg49.0000°,Azm287.0000° ; N Plg3.0000°,Azm193.0000°; P Plg41.0000°,Azm100.0000°
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.1km az=75.0.
IDC Error ellipse: s-maj=18.7km s-min=16.3km az=95.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**24 02 37 43.5–.10**	**37.93N**	**141.53E**	**61–1**	**3.6**		**¶602691029**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 02 49 35.6–3.3**	**37.99N–.06**	**142.36E–.06**	**16–20**	**4.2b**	**57**	**1-117**
NIED	III	24 02 49 00	38.00N	142.30E	20	4.0W		**¶600564814**
JMA	III	24 02 49 36.3–.30	38.02N	142.35E	24–4	4.1		
NEIC	III	24 02 49 38.5–.95	38.05N	142.43E	35–7	4.3b		
IDC	III	24 02 49 40.0–2.9	38.00N	142.36E	51–25	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ24.00000°,λ-75.00000°. NP2:ϕ_s5.00000°,δ67.00000°,λ-97.00000°. $M_0$1.09000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.6km az=127.0.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 02 53 25.8–.85**	**34.6N–.20**	**141.5E–.20**	**27**	**4.4b**	**24**	**2-86**
NIED	III	24 02 53 00	36.70N	141.80E	32	4.2W		**¶16452780**
IDC	III	24 02 53 21.2–.77	34.62N	141.49E	0	4.5,4.3		
NEIC	III	24 02 53 26.9–.67	34.63N	141.34E	35	4.3b,4.3		
JMA	III	24 02 53 34.7–.20	36.69N	141.84E	48–4	4.3,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s5.00000°,δ74.00000°,λ93.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=26.3km s-min=17.3km az=58.0.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=13.7km az=59.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(243) Taiwan region

ISC	**III**	**24 03 24 17.9–.63**	**22.03N–.04**	**121.80E–.03**	**10**	**3.8b,3.4s**	**111**	**0-85**
IDC	III	24 03 24 15.4–.91	21.82N	122.09E	0	3.9,3.8		**¶16452781**
ISCJB	III	24 03 24 16.2–.43	21.90N–.03	121.88E–.02	10	3.8b,3.4s		
TAP	III	24 03 24 17.7	22.01N	121.73E	3–0	3.9L,3.4s		
NEIC	III	24 03 24 17.7	22.01N	121.73E	3	4.3b,3.9L		
JMA	III	24 03 24 18.0–.20	22.15N	121.83E	0	4.0,3.9L		

ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=19.9km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=169.0.
TAP D.
NEIC Event type fe. Recorded [3 TAP] in Taitung. After TAP.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 03 24 30.1–1.0**	**36.79N–.03**	**140.48E–.05**	**9–7**	**3.8b**	**23**	**0-91**
IDC	III	24 03 24 29.1–.81	36.85N	140.54E	0	4.0,3.7		**¶600564833**
JMA	III	24 03 24 30.7	36.78N	140.56E	7–1	3.7,3.7		
ISCJB	III	24 03 24 30.1–.64	36.76N–.03	140.67E–.06	17–4	3.7b,3.7		

ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s325.00000°,δ54.00000°,λ-109.00000°. NP2:ϕ_s176.00000°,δ40.00000°,λ-66.00000°. Principal axes: T Plg7.0000°,Azm69.0000°; N Plg15.0000°,Azm337.0000°; P Plg73.0000° ,Azm182.0000°
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 03 58 07.4–.39**	**38.57N–.03**	**142.92E–.03**	**27–2**	**5.3b,4.8s**	**1247**	**1-160**
NIED	III	24 03 58 00	38.60N	142.90E	23	5.1W,4.8s		**¶16352101**
IDC	III	24 03 58 03.3–.35	38.57N	142.95E	0	5.0,5.0		
ISCJB	III	24 03 58 05.9–.68	38.61N–.02	142.90E–.02	24–4	5.2b,4.8s		
BJI	III	24 03 58 06.8	38.72N	142.97E	38	5.1b,5.0b		
JMA	III	24 03 58 07.4–.20	38.60N	142.93E	38–5	5.2,5.0b		
MOS	III	24 03 58 07.5–1.0	38.69N	142.84E	37	5.4b,4.7s		
GCMT	III	24 03 58 09.6–.20	38.63N	142.91E	27–0	5.1W,4.7s		
NEIC	III	24 03 58 09.6–.45	38.61N	142.81E	42–4	5.3b,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ38.00000°,λ43.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ120.00000°. $M_0$4.52000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=9.5km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=167.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=99.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c89; s102,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.63±.15 $M_{\theta\theta}$-3.27±.10; $M_{\phi\phi}$-0.36±.10; $M_{r\theta}$-0.03±.17; $M_{\theta\phi}$2.25±.07; $M_{\phi r}$-3.64±.21; Best double couple: NP1:ϕ_s150.00000°,δ65.00000° ,λ123.00000°. NP2:ϕ_s273.00000°,δ40.00000°,λ41.00000°. Principal axes: T 5.9420,Plg57.0000°,Azm104.0000°; N -1.0130,Plg29.0000°,Azm315.0000° ; P -4.9290,Plg14.0000°,Azm217.0000° $M_0$5.43500×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=140.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**24 04 11 19.6–.20**	**37.37N**	**141.63E**	**32–2**	**3.7**		**¶602690173**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**24 04 30 37.6–.46**	**37.40N–.03**	**143.81E–.04**	**29–2**	**4.9b,4.2s**	**460**	**2-154**
NIED	III	24 04 30 00	37.40N	143.60E	5	4.7W,4.2s		**¶16352103**
ISCJB	III	24 04 30 33.1–.87	37.38N–.02	143.77E–.02	9–5	4.8b,4.2s		
IDC	III	24 04 30 33.2–.43	37.31N	143.88E	0	4.8,4.7		
NEIC	III	24 04 30 36.2–1.8	37.37N	143.80E	20–12	4.9b,4.7		
MOS	III	24 04 30 36.7–1.0	37.32N	143.79E	36	5.0b,4.7		
JMA	III	24 04 30 37.0–.30	37.43N	143.63E	46	4.8,4.7		
BJI	III	24 04 30 39.2	37.68N	143.49E	37	5.1b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ26.00000°,λ-90.00000°. NP2:ϕ_s216.00000°,δ64.00000°,λ-90.00000°. $M_0$1.23000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=164.5.
IDC Error ellipse: s-maj=12.8km s-min=10.6km az=116.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=137.0.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=114.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 04 56 07.4–.53**	**38.72N–.05**	**142.41E–.04**	**32–3**	**4.8b,4.1s**	**275**	**1-145**
NIED	III	24 04 56 00	38.70N	142.30E	41	4.5W,4.1s		**¶16352105**
BJI	III	24 04 56 07.3	38.72N	142.29E	46	4.9b,4.7b		
MOS	III	24 04 56 07.7–.86	38.86N	142.30E	37	4.9b,4.7b		
ISCJB	III	24 04 56 07.7–.57	38.79N–.04	142.36E–.05	40–4	4.7b,4.0s		
JMA	III	24 04 56 08.3–.10	38.74N	142.32E	38–2	4.5,4.0s		
IDC	III	24 04 56 10.0–.62	38.67N	142.29E	51–5	4.6,4.4		
NEIC	III	24 04 56 09.7–.74	38.75N	142.30E	49–6	4.8b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ18.00000°,λ77.00000°. NP2:ϕ_s28.00000°,δ73.00000°,λ94.00000°. $M_0$6.89000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=103.5.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=137.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=144.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=144.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 05 03 38.7–.90**	**36.73N–.03**	**140.49E–.04**	**10–5**	**4.6b**	**140**	**0-156**
NIED	III	24 05 03 00	36.70N	140.60E	5	4.2W		**¶17198291**
ISCJB	III	24 05 03 37.8–.54	36.74N–.03	140.45E–.04	11–3	4.5b		
JMA	III	24 05 03 38.8	36.72N	140.60E	6–1	4.5		
BJI	III	24 05 03 38.2	36.84N	140.73E	30	5.0b,5.0s		
IDC	III	24 05 03 43.1–2.1	36.71N	140.45E	40–18	4.3,4.2		
NEIC	III	24 05 03 43.4–.99	36.81N	140.40E	38–8	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_s175.00000°,δ56.00000°,λ-88.00000°. $M_0$2.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.3km az=29.6.
JMA Event type fe.
IDC Error ellipse: s-maj=12.6km s-min=11.4km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=5.3km az=164.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 05 34 34.4–.92**	**38.78N–.06**	**142.00E–.09**	**51**	**3.6b**	**20**	**1-67**
NIED	III	24 05 34 00	38.80N	142.10E	41	3.8W		**¶602689997**
ISCJB	III	24 05 34 33.0–.72	38.80N–.06	142.11E–.08	51	3.5b		
JMA	III	24 05 34 33.8–.10	38.82N	142.08E	44–1	3.5		
IDC	III	24 05 34 37.8–3.3	38.76N	142.00E	81–31	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ14.00000°,λ43.00000°. NP2:ϕ_s15.00000°,δ81.00000°,λ100.00000°. $M_0$5.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=7.4km az=40.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=21.6km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 06 13 37.6–3.1**	**37.28N–.07**	**141.5E–.20**	**43–20**	**3.5b**	**14**	**1-57**
JMA	III	24 06 13 40.3–.10	37.30N	141.25E	51–1	3.6		**¶17198297**
IDC	III	24 06 13 58.3–2.1	37.62N	138.86E	90–20	3.4,3.2		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=31.9km s-min=23.3km az=67.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 07 03 53.3–.39**	**36.21N–.04**	**141.75E–.04**	**21–3**	**5.0b,4.4s**	**337**	**1-147**
NIED	III	24 07 03 00	36.20N	141.80E	23	4.7W,4.4s		**¶16352113**
IDC	III	24 07 03 49.8–.47	36.18N	141.83E	0	4.6,4.6		
JMA	III	24 07 03 52.3–.20	36.21N	141.80E	74–3	4.9,4.6		
BJI	III	24 07 03 53.5	36.21N	141.57E	31	5.1b,5.0b		
ISCJB	III	24 07 03 53.3–.80	36.20N–.03	141.74E–.03	31–5	4.8b,4.3s		
NEIC	III	24 07 03 56.0–.75	36.15N	141.69E	38–6	5.0b,4.3s		
MOS	III	24 07 03 56.5–1.1	36.66N	141.59E	36	5.2b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ24.00000°,λ86.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ92.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=10.8km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=141.4.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.8km az=122.0.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=108.2.

(228) Near east coast of eastern Honshu

JMA	**III**	**24 07 07 24.7–.10**	**38.24N**	**141.68E**	**52–1**	**3.5**		**¶602690650**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 07 34 49.5–2.1**	**36.89N–.07**	**141.43E–.07**	**10–13**	**3.6b**	**18**	**1-75**
NIED	III	24 07 34 00	36.80N	141.50E	5	3.6W		**¶600564952**
IDC	III	24 07 34 47.8–1.1	36.72N	141.52E	0	3.8,3.5		
ISCJB	III	24 07 34 47.7–2.4	36.82N–.05	141.60E–.06	11–15	3.5b,3.5		
JMA	III	24 07 34 48.9–.10	36.77N	141.54E	46–2	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ41.00000°,λ-70.00000°. NP2:ϕ_s185.00000°,δ52.00000°,λ-107.00000°. $M_0$2.87000×10^{14}
IDC Error ellipse: s-maj=30.2km s-min=24.3km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.7km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 08 16 46.7–1.8**	**36.22N–.04**	**140.97E–.06**	**24–13**	**3.8b**	**31**	**1-91**
NIED	III	24 08 16 00	36.20N	140.90E	47	4.0W		**¶17198307**
JMA	III	24 08 16 48.6–.10	36.23N	140.93E	47–1	3.7		
IDC	III	24 08 16 51.2–2.0	36.09N	140.93E	66–19	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ17.00000°,λ106.00000°. NP2:ϕ_s31.00000°,δ74.00000°,λ85.00000°. $M_0$9.48000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=18.5km s-min=10.2km az=66.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 08 20 59.6–.31**	**39.11N–.02**	**142.29E–.03**	**27–1**	**5.8s,5.6b**	**1787**	**1-159**
NIED	III	24 08 20 00	39.10N	142.40E	35	5.9W,5.6b		**¶602442647**
JMA	III	24 08 20 58.6–.10	39.08N	142.36E	34–1	6.2,5.6b		
ISCJB	III	24 08 20 59.1–.42	39.09N–.02	142.15E–.02	32–2	5.8s,5.5b		
MOS	III	24 08 20 59.8–.81	39.26N	142.13E	35	5.9b,5.8s		
GCMT	III	24 08 21 00.1–.10	39.08N	142.34E	37–0	5.9W,5.8s		
NEIC	III	24 08 21 00.1–.08	39.08N	142.08E	27	5.8W,5.8W		
BJI	III	24 08 21 00.0	39.20N	142.16E	30	6.1s,6.0		
IDC	III	24 08 21 01.9–1.6	39.08N	142.21E	45–14	5.7,5.7s		
NEIC	III	24 08 21 01.0–.00	39.12N	142.35E	40	5.7,5.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ22.00000°,λ52.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ104.00000°. $M_0$8.42000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=158.9.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=103.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c255; s133,c388;Duration: 2s^2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.58±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-0.64±.01; $M_{r\theta}$0.31±.01; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$0.69±.01; Best double couple: NP1:ϕ_s20.00000° ,δ71.00000°,λ101.00000°. NP2:ϕ_s169.00000°,δ22.00000°,λ61.00000°. Principal axes: T 0.9620,Plg62.0000°,Azm307.0000°; N 0.0240,Plg10.0000°,Azm196.0000° ; P -0.9860,Plg25.0000°,Azm101.0000° $M_0$0.97400×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=142.0. Felt at Misawa and Tokyo. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s89 Moment tensor: Scale 10^{17}Nm; M_{rr}2.61 $M_{\theta\theta}$1.27 $M_{\phi\phi}$-3.88 $M_{r\theta}$2.61 $M_{\theta\phi}$-0.29 $M_{\phi r}$4.36 Best double couple: NP1:ϕ_s154.00000°,δ23.00000°,λ38.00000°. NP2:ϕ_s28.00000° ,δ76.00000°,λ109.00000°. Principal axes: T 5.8900,Plg55.0000°,Azm321.0000° ; N 0.4700,Plg18.0000°,Azm203.0000°; P -6.3600,Plg28.0000°,Azm103.0000° $M_0$6.10000×10^{17}
IDC Error ellipse: s-maj=11.3km s-min=10.1km az=104.0.

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}3.84 $M_{\theta\theta}$-0.07 $M_{\phi\phi}$-3.77 $M_{r\theta}$0.73 $M_{\theta\phi}$-0.74 $M_{\phi r}$6.20 Best double couple: NP1:ϕ_s7.00000° ,δ74.00000°,λ88.00000°. NP2:ϕ_s195.00000°,δ16.00000°,λ97.00000°. Principal axes: T 7.3200,Plg60.0000°,Azm274.0000°; N 0.0500,Plg1.0000°,Azm7.0000° ; P -7.3700,Plg29.0000°,Azm98.0000° $M_0$7.30000×10^{17}

(162) South Island

WEL III 24 08 24 33.0–.08 43.59S 172.72E 9–0 3.7L ¶16359642

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

JMA III 24 08 41 48.8–.20 39.04N 142.29E 31–2 3.8 ¶602690507

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 08 46 53.5–1.1**	**39.10N–.06**	**142.3E–.10**	**51**	**3.4b**	**17**	**1-63**
ISCJB	III	24 08 46 51.7–.91	39.05N–.05	142.32E–.10	51	3.4b		**¶17198308**
JMA	III	24 08 46 51.7–.20	39.03N	142.31E	33–2	3.9		
IDC	III	24 08 46 58.9–4.3	38.94N	142.10E	98–39	3.3,3.2		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=7.2km az=5.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=41.3km s-min=24.3km az=98.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 08 58 13.9–1.3**	**38.90N–.06**	**142.0E–.10**	**51**	**3.7b**	**18**	**1-63**
IDC	III	24 08 58 10.4–1.2	39.39N	141.74E	0	3.8,3.7		**¶17198309**
ISCJB	III	24 08 58 12.2–1.0	38.89N–.06	142.08E–.09	51	3.7b,3.7		
JMA	III	24 08 58 12.8–.10	38.85N	142.05E	45–1	3.8,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=34.4km s-min=21.4km az=80.0.

ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.1km az=29.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 09 13 49.0–2.5**	**37.02N–.06**	**141.24E–.08**	**10–13**		**17**	**0-57**
IDC	III	24 09 13 46.7–2.7	37.10N	141.51E	0	3.9,3.9s		**¶17198314**
ISCJB	III	24 09 13 47.5–1.6	37.03N–.06	141.40E–.07	8–7	3.2b,3.9s		
JMA	III	24 09 13 50.1–.10	37.02N	141.24E	23–1	3.6,3.9s		

ISC Event type ke.

IDC Error ellipse: s-maj=50.0km s-min=36.7km az=36.0.

ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=9.5km az=171.8.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 10 30 36.6–1.1**	**36.81N–.03**	**140.62E–.05**	**8–8**		**16**	**0-57**
IDC	III	24 10 30 35.4–1.4	36.68N	140.67E	0	3.6,3.3		**¶17198328**
ISCJB	III	24 10 30 35.9–.77	36.79N–.04	140.70E–.08	15–5	3.4b,3.3		
JMA	III	24 10 30 36.5	36.82N	140.58E	4–1	3.4,3.3		

ISC Event type ke.

IDC Error ellipse: s-maj=34.0km s-min=24.8km az=150.0.

ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.2km az=19.7.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s171.00000°,δ72.00000°,λ-97.00000°. NP2:ϕ_s13.00000°,δ19.00000°,λ-69.00000°. Principal axes: T Plg27.0000°,Azm267.0000°; N Plg7.0000°,Azm174.0000°; P Plg62.0000° ,Azm71.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**24 10 44 10.7–.65**	**38.36N–.06**	**142.26E–.07**	**24**	**4.1b**	**35**	**1-89**
NIED	III	24 10 44 00	38.40N	142.30E	29	3.8W		**¶16480599**
IDC	III	24 10 44 06.8–.73	38.39N	142.31E	0	4.2,4.1		
ISCJB	III	24 10 44 08.2–.48	38.35N–.05	142.48E–.06	24	4.1b,4.1		
JMA	III	24 10 44 11.3–.20	38.44N	142.34E	35–3	4.2,4.1		
NEIC	III	24 10 44 12.1–.52	38.40N	142.39E	35	4.7b,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ38.00000°,λ-93.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ-88.00000°. $M_0$6.15000×10^{14}

IDC Error ellipse: s-maj=21.4km s-min=15.2km az=92.0.

ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.1km az=146.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.9km az=122.0.

(162) South Island

WEL	**III**	**24 11 03 59.5–.07**	**43.59S**	**172.68E**	**10–0**	**4.0L**		
NEIC	III	24 11 03 59.7	43.59S	172.67E	9	4.0L		**¶16359643**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 11 04 57.4–1.7**	**37.39N–.05**	**141.93E–.05**	**1–11**	**3.9b**	**37**	**1-90**
NIED	III	24 11 04 00	37.40N	141.90E	5	3.8W		**¶602689884**
ISCJB	III	24 11 04 57.7–1.7	37.36N–.04	141.99E–.04	14–11	3.8b		
IDC	III	24 11 04 57.6–.68	37.40N	141.93E	0	3.9,3.8		
JMA	III	24 11 04 58.7–.20	37.36N	141.92E	17–3	4.1,3.8		
NEIC	III	24 11 05 02.6–.38	37.40N	141.87E	35	4.1b,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ42.00000°,λ-151.00000°. NP2:ϕ_s82.00000°,δ71.00000°,λ-52.00000°. $M_0$5.20000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.6km az=26.4.

IDC Error ellipse: s-maj=19.7km s-min=14.8km az=123.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=10.8km s-min=6.5km az=123.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 11 08 22.9–2.0**	**39.16N–.05**	**142.51E–.09**	**24–13**	**3.8b**	**24**	**1-73**
IDC	III	24 11 08 19.0–1.1	39.09N	142.46E	0	3.9,3.7		**¶17198332**
JMA	III	24 11 08 24.1–.10	39.22N	142.51E	33–1	4.3,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=30.5km s-min=21.6km az=113.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 12 11 21.1–1.8**	**35.89N–.05**	**141.19E–.09**	**14–11**	**3.6b**	**17**	**0-72**
NIED	III	24 12 11 00	35.90N	141.20E	8	3.5W		**¶17198340**
IDC	III	24 12 11 18.9–1.1	35.80N	141.20E	0	3.7s,3.7		
ISCJB	III	24 12 11 19.6–1.5	35.88N–.05	141.36E–.10	19–9	3.8s,3.6b		
JMA	III	24 12 11 22.0–.10	35.90N	141.19E	24–2	3.7,3.6b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ69.00000°,λ23.00000°. NP2:ϕ_s142.00000°,δ69.00000°,λ157.00000°. $M_0$1.84000×10^{14}

IDC Error ellipse: s-maj=29.9km s-min=19.6km az=87.0.

ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.7km az=176.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**24 13 02 32.9–.43**	**37.96N–.04**	**143.99E–.04**	**35**	**4.5b,3.7s**	**115**	**2-153**
NIED	III	24 13 02 00	37.90N	143.90E	5	4.4W,3.7s		**¶16359871**
IDC	III	24 13 02 27.6–.51	37.81N	144.12E	0	4.5,4.4		
JMA	III	24 13 02 30.8–.30	37.92N	143.94E	46	4.7,4.4		
NEIC	III	24 13 02 31.2–.75	37.86N	144.03E	22–5	4.7b,4.4		
ISCJB	III	24 13 02 31.4–.24	37.93N–.03	143.92E–.03	33	4.5b,3.6s		
BJI	III	24 13 02 35.5	38.14N	143.48E	33	4.8b,4.5b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ22.00000°,λ-92.00000°. NP2:ϕ_s196.00000°,δ68.00000°,λ-89.00000°. $M_0$4.92000×10^{15}

IDC Error ellipse: s-maj=14.3km s-min=12.0km az=123.0.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=134.0.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=169.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 13 19 36.9–1.9**	**36.76N–.04**	**141.17E–.06**	**30–14**	**3.6b**	**36**	**0-147**
NIED	III	24 13 19 00	36.80N	141.00E	56	3.9W		**¶17198358**
ISCJB	III	24 13 19 37.3–.67	36.75N–.04	141.13E–.06	47–6	3.6b		
IDC	III	24 13 19 38.3–2.4	36.69N	141.22E	44–24	3.9L,3.8		
JMA	III	24 13 19 38.3–.10	36.79N	141.05E	50–1	3.9,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ54.00000°,λ-165.00000°. NP2:ϕ_s106.00000°,δ78.00000°,λ-36.00000°. $M_0$8.86000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.6km az=18.1.

IDC Error ellipse: s-maj=21.9km s-min=15.5km az=89.0.

JMA Event type fe.

(296) Myanmar

ISC	**III**	**24 13 55 13.4–.27**	**20.63N–.02**	**99.92E–.02**	**13–1**	**7.2s,6.1b**	**1716**	**2-168**
IDC	III	24 13 55 11.0–.33	20.71N	99.92E	0	7.0,7.0s		**¶16357310**
ISCJB	III	24 13 55 11.6–.07	20.71N–.01	99.89E–.01	14	7.2s,6.0b		
GCMT	III	24 13 55 11.9–.10	20.62N	100.02E	13–0	6.8W,6.0b		
BJI	III	24 13 55 12.3	20.70N	99.85E	20	7.6s,7.4		
NEIC	III	24 13 55 12.0–.11	20.69N	99.82E	8	7.2L,7.1s		
NEIC	III	24 13 55 12.0–.00	20.50N	100.15E	15	7.2L,7.1s		
MOS	III	24 13 55 14.5–.97	20.65N	99.94E	12	7.1s,6.3b		
BKK	III	24 13 55 15.1–.30	21N–3.0	100E–3.0	10	7.0,6.9		
PLV	III	24 13 55 15.9–2.1	20.62N	100.21E	17–15	6.6W,6.4L		
NEIC	III	24 13 55 30.8–.00	20.36N	99.86E	10	6.6W,6.4L		

ISC Event type de.

IDC Error ellipse: s-maj=9.0km s-min=8.3km az=177.0.

ISCJB Event type de. Error ellipse: s-maj=1.8km s-min=1.5km az=29.6.

GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=125s. Moment Tensor Solution. s142,c369; s141,c659;Duration: 6s4 Moment tensor: Scale 10^{19} Nm; M_{rr}0.11±.01 $M_{\theta\theta}$-1.50±.01; $M_{\phi\phi}$1.39±.01; $M_{r\theta}$0.34±.02; $M_{\theta\phi}$1.67±.01; $M_{\phi r}$0.32±.03; Best double couple: NP1:ϕ_s70.00000°,δ85.00000°,λ11.00000°. NP2:ϕ_s339.00000° ,δ79.00000°,λ175.00000°. Principal axes: T 2.2410,Plg11.0000°,Azm295.0000° ; N 0.0380,Plg78.0000°,Azm94.0000°; P -2.2760,Plg4.0000°,Azm204.0000° $M_0$2.25800×10^{19}

NEIC Event type de. Error ellipse: s-maj=3.5km s-min=2.8km az=55.0. At least 74 people killed, 111 injured, 413 buildings damaged and one bridge collapsed in Shan. Landslides occurred in the area. Felt [VI] at Kengtung and [II] at Rangoon. Also felt at Mandalay and Taunggyi. One person killed in northern Thailand. Felt [VI] at Mae Sai; [IV] at Amnat Charoen, Chiang Rai, Lamphun, Mae Chan, Mae Rim, Nan, Nonthaburi, Phayao and Pong; [III] at Bangkok, Chiang Mai, Hang Dong, Lampang, Mae Hong Son, San Kamphaeng, San Pa Tong and San Sai. Twelve people injured, 9,496 people displaced and 9,691 houses, 136 reservoirs and 35 roads damaged in Yunnan, China. Felt [IV] at Jinghong, [III] at Nanning and [II] at Kunming. Felt [IV] at Louang Namtha and [II] at Louangphabang and Vientiane, Laos. Felt [III] at Hanoi, Vietnam. Also felt at Ho Chi Minh City. Felt widely in Laos, Myanmar, Thailand, Vietnam and southern China. Also felt at Phnom Penh, Cambodia and in Singapore. Felt at Dhaka, Bangladesh and at Aizawl, India. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$2.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000° ,δ81.00000°,λ-3.00000°. NP2:ϕ_s336.00000°,δ87.00000°,λ-17.00000°. Principal axes: T 1.3400,Plg4.0000°,Azm111.0000°; N -0.0300,Plg81.0000°,Azm354.0000° ; P -1.3100,Plg8.0000°,Azm201.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s244.00000°,δ80.00000°,λ-3.00000°. NP2: ϕ_s335.00000°,δ87.00000°,λ-170.00000°. Principal axes: T Plg5.0000°,Azm109.0000° ; N Plg0.0000°,Azm0.0000°; P Plg9.0000°,Azm200.0000°

NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{19}Nm; M_{rr}0.08 $M_{\theta\theta}$-1.34 $M_{\phi\phi}$1.26 $M_{r\theta}$-0.48 $M_{\theta\phi}$1.42 $M_{\phi r}$1.55 Best double couple: NP1:ϕ_s338.00000° ,δ88.00000°,λ140.00000°. NP2:ϕ_s70.00000°,δ50.00000°,λ3.00000°. Principal axes: T 2.5500,Plg28.0000°,Azm286.0000°; N -0.0800,Plg49.0000°,Azm155.0000° ; P -2.4700,Plg25.0000°,Azm31.0000° $M_0$2.50000×10^{19}

MOS Error ellipse: s-maj=6.1km s-min=3.8km az=109.8. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s256.00000°,δ81.00000°,λ-14.00000°. NP2: ϕ_s348.00000°,δ76.00000°,λ-171.00000°. Principal axes: T Plg4.0000°,Azm303.0000° ; N Plg74.0000°,Azm45.0000°; P Plg16.0000°,Azm212.0000° $M_0$1.70000×10^{19}

PLV Error ellipse: s-maj=12.1km s-min=19.2km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s69 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.07 $M_{\theta\theta}$-1.30 $M_{\phi\phi}$1.37 $M_{r\theta}$0.11 $M_{\theta\phi}$1.59 $M_{\phi r}$-0.13 Best double couple: NP1:ϕ_s340.00000° ,δ88.00000°,λ-176.00000°. NP2:ϕ_s250.00000°,δ86.00000°,λ-2.00000°. Principal axes: T 2.1100,Plg2.0000°,Azm115.0000°; N -0.0600,Plg85.0000°,Azm1.0000° ; P -2.0500,Plg4.0000°,Azm205.0000° $M_0$2.10000×10^{19}

(228) Near east coast of eastern Honshu

ISC	**III**	**24 14 16 33.5–1.3**	**38.21N–.05**	**142.01E–.09**	**30**	**3.7b**	**19**	**1-62**
IDC	III	24 14 16 26.7–2.2	38.50N	142.63E	0	3.8,3.7		**¶17198369**
ISCJB	III	24 14 16 32.1–.91	38.16N–.04	142.17E–.09	30	3.6b,3.7		
JMA	III	24 14 16 35.5–.10	38.24N	141.94E	45–2	3.7,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=58.0km s-min=22.7km az=72.0.

ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=162.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(163) Cook Strait

ISC	**III**	**24 14 43 50.7–.87**	**40.70S–.03**	**174.10E–.03**	**83–6**		**221**	**0-152**
IDC	III	24 14 43 49.2–2.2	40.66S	174.14E	63–23	3.7,3.6		**¶16359644**
ISCJB	III	24 14 43 49.7–.26	40.72S–.02	174.13E–.04	97–4	3.7b,3.6		
NEIC	III	24 14 43 52.0	40.68S	174.12E	72	4.1L,3.6		
WEL	III	24 14 43 52.1–.14	40.69S	174.13E	71–2	4.1L,3.6		

ISC Event type fe.

IDC Error ellipse: s-maj=29.5km s-min=15.9km az=143.0.

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.8km az=34.7.

NEIC Event type fe. Felt at Waitara and Waverley. After WEL.

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Taranaki to Marlborough, and from Nelson to Manawatu, maximum. reported intensity MM 4.

(91) Virgin Islands

ISC	**III**	**24 16 13 10.5–.77**	**18.40N–.06**	**64.84W–.03**	**104–5**	**3.8b**	**135**	**0-56**
ISCJB	III	24 16 13 09.8–.34	18.41N–.05	64.85W–.02	107–3	3.7b		**¶16357317**
TRN	III	24 16 13 09.6	18.39N	64.85W	100	3.7b		
IDC	III	24 16 13 10.3–5.0	18.47N	64.76W	93–41	3.7,3.6		
RSPR	III	24 16 13 12.2	18.36N	64.83W	96–0	3.9,3.6		
NEIC	III	24 16 13 12.2	18.36N	64.83W	96	4.0b,3.9		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=3.0km az=8.2.

IDC Error ellipse: s-maj=109.1km s-min=51.5km az=169.0.

RSPR Event type ke.

NEIC Event type fe. Felt [III] on Saint John. Also felt at Charlotte Amalie, Saint Thomas. Felt on Tortola, British Virgin Islands. After RSPR.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 16 40 48.6–1.1**	**36.92N–.04**	**141.14E–.07**	**45–9**	**3.9b**	**42**	**0-147**
ISCJB	III	24 16 40 47.9–.66	36.89N–.04	141.14E–.07	55–5	3.9b		**¶17198384**
JMA	III	24 16 40 49.1–.10	36.91N	141.09E	49–1	4.0		
IDC	III	24 16 40 49.3–2.1	36.91N	141.03E	50–20	3.9,3.9		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=6.1km az=12.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=16.4km s-min=11.3km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 16 42 14.3–.69**	**38.66N–.07**	**142.00E–.07**	**41**	**4.2b**	**47**	**1-82**
NEIC	III	24 16 42 07.9–4.2	38.29N	142.18E	13–27	4.4b		**¶16480666**
ISCJB	III	24 16 42 12.6–.50	38.69N–.05	142.05E–.06	41	4.1b		
JMA	III	24 16 42 15.2–.10	38.64N	141.89E	49–1	4.0		
IDC	III	24 16 42 17.3–2.7	38.80N	141.86E	59–24	4.1,3.9		

ISC Event type se.

NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.1km az=139.0.

ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.9km az=141.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=17.8km s-min=14.5km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**24 17 08 29.7–.96**	**36.81N–.03**	**140.61E–.04**	**9–6**	**4.7b**	**148**	**0-147**
NIED	III	24 17 08 00	36.80N	140.60E	5	4.5W		**¶16357318**
ISCJB	III	24 17 08 28.9–.54	36.80N–.02	140.66E–.04	14–3	4.6b		
JMA	III	24 17 08 29.7	36.82N	140.57E	6–1	4.7		
MOS	III	24 17 08 31.5–1.1	36.79N	140.62E	33	4.8b		
NEIC	III	24 17 08 34.0–.76	36.72N	140.59E	41–7	4.9b		
IDC	III	24 17 08 35.0–1.4	36.78N	140.55E	45–13	4.4,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ24.00000°,λ-89.00000°. NP2:ϕ_s182.00000°,δ66.00000°,λ-90.00000°. $M_0$6.17000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=25.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s198.00000°,δ58.00000°,λ-72.00000°. NP2:ϕ_s346.00000°,δ37.00000°,λ-116.00000°. Principal axes: T Plg11.0000°,Azm275.0000°; N Plg15.0000°,Azm8.0000°; P Plg71.0000° ,Azm151.0000°

MOS Error ellipse: s-maj=8.5km s-min=5.3km az=106.8.

NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=98.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=73.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**24 17 10 43.1–.10**	**38.18N**	**141.63E**	**52–1**	**3.6**		**¶602688838**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu

JMA	**III**	**24 17 58 36.9**	**37.09N**	**140.77E**	**10–1**	**3.1**		**¶603049986**

JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 18 14 00.7–1.1**	**36.25N–.04**	**140.85E–.06**	**28–7**	**4.0b**	**47**	**0-91**
IDC	III	24 18 13 56.5–.56	36.28N	140.87E	0	4.1,4.1L	**¶16462165**	
NEIC	III	24 18 13 59.9–3.1	36.23N	140.85E	24–23	4.5b,4.1L		
NIED	III	24 18 14 00	36.30N	140.80E	29	3.8W,4.1L		
JMA	III	24 18 14 00.4	36.26N	140.84E	37–1	4.1,4.1L		
ISCJB	III	24 18 14 00.4–.56	36.24N–.03	140.83E–.06	41–5	3.9b,4.1L		

ISC Event type se.
NEIC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ8.00000°,λ-61.00000°. NP2:ϕ_s217.00000°,δ83.00000°,λ-94.00000°. $M_0$6.06000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 18 16 46.5–1.2**	**36.86N–.05**	**141.23E–.09**	**43–10**	**4.1b**	**47**	**0-147**
NIED	III	24 18 16 00	36.80N	141.20E	56	4.3W	**¶16480679**	
IDC	III	24 18 16 40.5–.63	36.84N	141.02E	0	4.2,4.2L		
ISCJB	III	24 18 16 45.3–.70	36.82N–.03	141.27E–.08	50–5	4.1b,4.2L		
NEIC	III	24 18 16 46.4–1.1	36.89N	141.15E	40–11	4.5b,4.2L		
JMA	III	24 18 16 47.1–.10	36.86N	141.12E	49–1	4.3,4.2L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ45.00000°,λ77.00000°. NP2:ϕ_s250.00000°,δ47.00000°,λ103.00000°. $M_0$3.40000×10^{15}
IDC Error ellipse: s-maj=20.0km s-min=14.2km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.7km az=2.6.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=8.6km az=81.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

JMA	**III**	**24 18 42 55.2–.10**	**37.44N**	**141.41E**	**26–1**	**3.5**		**¶602688678**

JMA Event type fe.
(229) Off east coast of Honshu

ISC	**III**	**24 19 17 18.6–.40**	**38.11N–.03**	**143.60E–.03**	**24–2**	**5.3b,5.2s**	**974**	**2-159**
NIED	III	24 19 17 00	38.20N	143.60E	8	5.3W,5.2s	**¶17198395**	
ISCJB	III	24 19 17 14.0–.73	38.04N–.02	143.58E–.02	4–4	5.2b,5.2s		
IDC	III	24 19 17 14.6–.33	38.01N	143.66E	0	5.1,5.0		
BJI	III	24 19 17 16.9	38.09N	143.34E	12	5.4b,5.4s		
NEIC	III	24 19 17 18.5–1.3	37.99N	143.59E	24–9	5.3b,5.4s		
MOS	III	24 19 17 18.6–.95	38.27N	143.52E	26	5.4b,5.1s		
GCMT	III	24 19 17 18.5–.20	38.12N	143.67E	12	5.4W,5.1s		
JMA	III	24 19 17 18.1–.20	38.16N	143.55E	46	5.4,5.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ26.00000°,λ-101.00000°. NP2:ϕ_s201.00000°,δ64.00000°,λ-84.00000°. $M_0$1.16000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=160.9.
IDC Error ellipse: s-maj=11.0km s-min=8.2km az=110.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=138.0.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=106.7.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c50; s106,c200; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.02 $M_{\theta\theta}$0.06±.02; $M_{\phi\phi}$1.10±.02; $M_{r\theta}$0.06±.09; $M_{\theta\phi}$0.50±.02; $M_{\phi r}$0.54±.07; Best double couple: NP1:ϕ_s195.00000°,δ57.00000°,λ-98.00000°. NP2:ϕ_s30.00000°,δ34.00000°,λ-78.00000°. Principal axes: T 1.4080,Plg12.0000°,Azm291.0000°; N -0.1240,Plg7.0000°,Azm199.0000° ; P -1.2830,Plg77.0000°,Azm80.0000° $M_0$1.34600×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 19 22 02.7–.55**	**38.05N–.05**	**143.62E–.05**	**24–3**	**4.9s,4.9b**	**264**	**2-145**
IDC	III	24 19 21 58.9–.59	37.98N	143.66E	0	4.8,4.7	**¶16358668**	
NIED	III	24 19 22 00	38.30N	142.20E	32	4.5W,4.7		
NEIC	III	24 19 22 02.7–.50	38.01N	143.62E	20–3	5.0b,4.7		
MOS	III	24 19 22 02.8–1.5	38.14N	143.66E	33	5.0b,4.7		
ISCJB	III	24 19 22 03.1–.21	38.03N–.04	143.51E–.03	37	4.9s,4.8b		
BJI	III	24 19 22 05.5	38.03N	143.11E	33	5.1b,5.1s		
JMA	III	24 19 22 16.4–.20	38.29N	142.21E	35–3	4.2,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=12.2km az=149.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ55.00000°,λ162.00000°. NP2:ϕ_s51.00000°,δ75.00000°,λ37.00000°. $M_0$7.11000×10^{15}
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.3km az=149.0.
MOS Error ellipse: s-maj=8.6km s-min=5.7km az=83.8.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.8km az=161.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 19 36 51.6–2.1**	**39.07N–.05**	**142.44E–.08**	**6–11**	**3.7b**	**26**	**1-55**
ISCJB	III	24 19 36 52.9–1.3	39.05N–.04	142.48E–.08	25–7	3.7b	**¶17198398**	
IDC	III	24 19 36 53.0–2.6	39.36N	142.24E	0	3.8,3.7		
JMA	III	24 19 36 54.8–.10	39.07N	142.38E	34–1	3.6,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.4km az=8.1.
IDC Error ellipse: s-maj=54.7km s-min=23.4km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 19 44 45.8–.65**	**38.84N–.04**	**142.19E–.05**	**41–5**	**4.9b,4.3s**	**269**	**1-155**
NIED	III	24 19 44 00	38.80N	142.20E	50	4.7W,4.3s	**¶16359647**	
IDC	III	24 19 44 40.0–.48	38.74N	142.14E	0	4.8,4.7		
BJI	III	24 19 44 39.2	38.66N	142.66E	33	5.2b,4.9b		
MOS	III	24 19 44 44.8–.87	38.97N	142.07E	36	5.2b,4.0s		
JMA	III	24 19 44 45.7–.10	38.79N	142.21E	42–2	4.8,4.0s		
NEIC	III	24 19 44 45.4–.75	38.75N	142.10E	37–6	4.9b,4.0s		
ISCJB	III	24 19 44 45.0–.54	38.80N–.03	142.19E–.05	48–4	4.8b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ17.00000°,λ22.00000°. NP2:ϕ_s45.00000°,δ84.00000°,λ106.00000°. $M_0$1.46000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Iwate and Miyagi.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 20 33 44.2–2.1**	**39.52N–.04**	**142.60E–.07**	**4–12**	**4.3b**	**44**	**1-73**
NIED	III	24 20 33 00	39.50N	142.50E	20	3.9W	**¶17198404**	
ISCJB	III	24 20 33 45.2–1.4	39.53N–.04	142.63E–.08	20–8	3.9b		
JMA	III	24 20 33 46.8–.10	39.54N	142.52E	26–1	4.2		
IDC	III	24 20 33 52.0–2.7	39.44N	142.60E	69–24	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ19.00000°,λ5.00000°. NP2:ϕ_s45.00000°,δ88.00000°,λ109.00000°. $M_0$8.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=28.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=15.9km az=108.0.
(229) Off east coast of Honshu

ISC	**III**	**24 20 39 42.2–.72**	**39.49N–.07**	**143.09E–.06**	**18**	**4.0b**	**31**	**1-81**
NIED	III	24 20 39 00	39.50N	143.20E	20	4.2W	**¶602688418**	
ISCJB	III	24 20 39 40.4–.53	39.50N–.05	143.27E–.05	18	3.9b		
JMA	III	24 20 39 41.3–.20	39.48N	143.18E	18–3	4.4		
IDC	III	24 20 39 46.6–3.2	39.50N	143.11E	54–29	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s128.00000°,δ45.00000°,λ16.00000°. NP2:ϕ_s26.00000°,δ78.00000°,λ134.00000°. $M_0$2.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=166.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.1km s-min=15.6km az=105.0.
(36) Northern California

ISC	**III**	**24 21 20 39.5–.79**	**40.11N–.03**	**120.08W–.03**	**10**		**47**	**1-6**
NEIC	III	24 21 20 39.7	40.06N	120.05W	11	3.8L,3.5W	**¶16577622**	
ISCJB	III	24 21 20 40.4–.35	40.07N–.04	119.93W–.04	10	3.8L,3.5W		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Herlong. Also felt at Chilcoot and Doyle. After REN. Moment Tensor Solution. $M_0$2.20000×10^{14}
ISCJB Event type fe.
(36) Northern California

ISC	**III**	**24 21 45 23.1–.86**	**40.10N–.04**	**120.06W–.04**	**10**		**21**	**1-6**
NEIC	III	24 21 45 22.9	40.06N	120.04W	11	3.4L	**¶601793883**	
ISCJB	III	24 21 45 23.7–.55	39.98N–.05	120.02W–.05	10	3.4L		

ISC Event type fe.
NEIC Event type fe. Felt at Susanville. After REN.
ISCJB Event type fe.
(227) Eastern Honshu

ISC	**III**	**24 22 07 17.0–.49**	**35.61N–.04**	**137.50E–.04**	**250–4**	**4.4b**	**214**	**0-125**
BJI	III	24 22 07 14.9	35.52N	137.54E	260	4.7b,4.6b	**¶602689103**	
NEIC	III	24 22 07 16.7–.32	35.56N	137.48E	247–3	4.5b,4.6b		
ISCJB	III	24 22 07 16.1–.18	35.60N–.03	137.52E–.03	255–1	4.3b,4.6b		
IDC	III	24 22 07 16.8–.39	35.56N	137.51E	248–3	4.5,4.0		
JMA	III	24 22 07 17.1–.10	35.63N	137.61E	251–2	4.0,4.0		

ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.0km az=38.0.
IDC Error ellipse: s-maj=9.3km s-min=6.6km az=76.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 22 51 32.7–2.1**	**36.61N–.05**	**141.19E–.07**	**7–12**	**3.7b**	**29**	**0-147**
NIED	III	24 22 51 00	36.60N	141.20E	8	3.8W	**¶17198413**	
IDC	III	24 22 51 31.7–.72	36.60N	141.26E	0	3.9,3.7		
ISCJB	III	24 22 51 31.2–1.2	36.57N–.04	141.33E–.05	9–6	3.6b,3.7		
JMA	III	24 22 51 34.4–.10	36.63N	141.15E	32–2	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ37.00000°,λ-113.00000°. NP2:ϕ_s214.00000°,δ57.00000°,λ-74.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=19.2km s-min=17.9km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.8km az=137.4.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**III**	**24 23 12 18.5–1.0**	**36.82N–.03**	**140.50E–.04**	**9–7**	**4.0b**	**46**	**0-147**
NIED	III	24 23 12 00	36.80N	140.60E	5	3.8W	**¶16480714**	
IDC	III	24 23 12 17.1–.70	36.80N	140.48E	0	4.1,3.9		
JMA	III	24 23 12 18.7	36.82N	140.57E	6–1	3.9,3.9		
ISCJB	III	24 23 12 18.3–.50	36.80N–.03	140.60E–.05	19–3	3.9b,3.9		
NEIC	III	24 23 12 23.8–.82	36.81N	140.40E	47–7	4.1b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ27.00000°,λ-107.00000°. NP2:ϕ_s137.00000°,δ64.00000°,λ-82.00000°. $M_0$6.12000×10^{14}
IDC Error ellipse: s-maj=18.5km s-min=16.4km az=136.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s299.00000°,δ47.00000°,λ-101.00000°. NP2:ϕ_s135.00000°,δ45.00000°,λ-79.00000°. Principal axes: T Plg1.0000°,Azm37.0000°; N Plg8.0000°,Azm307.0000°; P Plg82.0000° ,Azm134.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=17.3.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=112.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**25 00 00 35.3–1.9**	**37.31N–.05**	**141.40E–.07**	**14–10**	**3.7b**	**32**	**1-155**
NIED	III	25 00 00 00	37.40N	141.40E	20	3.6W	**¶17198425**	
JMA	III	25 00 00 36.8–.10	37.38N	141.44E	33–2	3.8		
IDC	III	25 00 00 41.7–3.6	37.34N	141.30E	61–32	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ44.00000°,λ-85.00000°. NP2:ϕ_s268.00000°,δ46.00000°,λ-95.00000°. $M_0$3.10000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.1km s-min=17.6km az=79.0.
(296) Myanmar

ISC	**III**	**25 00 22 39.7–.27**	**20.63N–.03**	**99.88E–.04**	**10**	**4.9b,4.5s**	**326**	**2-158**
ISCJB	III	25 00 22 37.5–.12	20.71N–.02	99.89E–.02	10	4.8b,4.4s	**¶16358678**	
BKK	III	25 00 22 37.5–1.9	21N–17	100E–4.0	10	5.7b,5.6		
IDC	III	25 00 22 37.2–.43	20.67N	99.96E	0	4.8L,4.6		
MOS	III	25 00 22 38.0–.95	20.73N	99.89E	14	5.0b,4.3s		
BJI	III	25 00 22 38.7	20.60N	99.90E	10	5.5L,5.2s		
NEIC	III	25 00 22 39.3–.15	20.71N	99.88E	10	5.0b,5.2s		
GCMT	III	25 00 22 39.3–.20	20.60N	99.95E	12	5.0W,5.2s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.5km az=158.6.
IDC Error ellipse: s-maj=12.8km s-min=9.6km az=93.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=111.2.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=76.0. Felt at Louang Namtha, Laos and at Chiang Mai and Phrae, Thailand.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c38; s95,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.24±.09 $M_{\theta\theta}$1.55±.08; $M_{\phi\phi}$-1.31±.09; $M_{r\theta}$2.54±.23; $M_{\theta\phi}$3.04±.07; $M_{\phi r}$1.21±.24; Best double couple: NP1:ϕ_s104.00000°,δ78.00000° ,λ28.00000°. NP2:ϕ_s8.00000°,δ63.00000°,λ166.00000°. Principal axes: T 4.9780,Plg28.0000°,Azm329.0000°; N -1.6780,Plg60.0000°,Azm126.0000° ; P -3.3000,Plg10.0000°,Azm233.0000° $M_0$4.13900×10^{16}
(114) Off coast of Peru

ISC	**III**	**25 00 25 47.4–.59**	**13.36S–.06**	**77.14W–.09**	**28**	**4.1b,3.4s**	**52**	**1-146**
ISCJB	III	25 00 25 45.9–.57	13.44S–.05	77.21W–.07	28	4.2b,3.4s	**¶16480741**	
NEIC	III	25 00 25 47.9–.46	13.35S	77.13W	29	4.2b,3.4s		
IDC	III	25 00 25 47.9–.65	13.40S	77.02W	28–3	4.5L,4.1		
SCB	III	25 00 26 02.6–1.1	13.48S	75.82W	106	4.1L,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.2km az=150.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=7.8km az=224.0. Felt [III] at Pisco and San Vicente de Canete.
IDC Error ellipse: s-maj=23.9km s-min=15.4km az=57.0.
SCB Event type ke. Error ellipse: s-maj=30.3km s-min=25.1km az=2.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**25 00 48 52.7–2.2**	**37.26N–.05**	**141.73E–.07**	**14–13**	**3.8b**	**27**	**1-63**
NIED	III	25 00 48 00	37.30N	141.60E	32	3.8W	**¶17198435**	
JMA	III	25 00 48 55.3–.20	37.28N	141.63E	45–2	4.0		
IDC	III	25 00 48 58.6–3.6	37.18N	141.58E	65–33	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ9.00000°,λ4.00000°. NP2: ϕ_s42.00000°,δ89.00000°,λ99.00000°. $M_0$4.97000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.9km s-min=21.7km az=108.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**25 01 54 46.1–1.9**	**38.78N–.06**	**142.3E–.10**	**20–8**	**3.5b**	**20**	**1-59**
NIED	III	25 01 54 00	38.80N	142.30E	47	3.8W	**¶17198438**	
JMA	III	25 01 54 47.3–.10	38.75N	142.32E	37–2	4.0		
IDC	III	25 01 54 59.8–4.6	39.05N	140.78E	60–43	3.5,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ37.00000°,λ43.00000°. NP2:ϕ_s6.00000°,δ66.00000°,λ119.00000°. $M_0$5.59000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=24.6km az=71.0.
(228) Near east coast of eastern Honshu

ISC	**III**	**25 02 00 59.1–.77**	**38.67N–.08**	**142.55E–.07**	**24**	**3.7b**	**25**	**1-88**
NIED	III	25 02 00 00	38.70N	142.60E	23	3.9W	**¶17198441**	
ISCJB	III	25 02 00 57.6–.60	38.63N–.07	142.68E–.05	24	3.6b		
JMA	III	25 02 00 59.8–.20	38.75N	142.56E	26–3	4.0		
IDC	III	25 02 01 04.8–2.9	38.67N	142.62E	73–27	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s116.00000°,δ9.00000°,λ13.00000°. NP2:ϕ_s13.00000°,δ88.00000°,λ99.00000°. $M_0$6.73000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.1km az=176.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=15.4km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**25 02 17 42.1–.88**	**39.17N–.04**	**142.40E–.07**	**28–6**	**3.6b**	**33**	**1-91**
NIED	III	25 02 17 00	39.20N	142.40E	41	3.6W		**¶17198443**
ISCJB	III	25 02 17 39.9–1.3	39.14N–.04	142.49E–.07	26–7	3.5b		
JMA	III	25 02 17 41.3–.10	39.17N	142.41E	32–1	3.9		
IDC	III	25 02 17 42.1–.70	39.10N	142.47E	31–5	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ20.00000°,λ-125.00000°. NP2:ϕ_s179.00000°,δ74.00000°,λ-78.00000°. $M_0$3.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.5km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=14.9km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**25 02 36 12.7–1.2**	**36.91N–.05**	**140.45E–.06**	**6–13**		**16**	**0-61**
IDC	III	25 02 36 12.1–2.3	36.87N	140.48E	0	4.0s,4.0		**¶17198444**
ISCJB	III	25 02 36 12.8–.61	36.88N–.03	140.55E–.05	16–8	4.0s,3.8b		
JMA	III	25 02 36 13.0	36.90N	140.49E	7–1	3.3,3.8b		

ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=17.0km az=10.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.8km az=0.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s353.00000°,δ47.00000°,λ-101.00000°. NP2:ϕ_s188.00000°,δ44.00000°,λ-79.00000°. Principal axes: T Plg2.0000°,Azm90.0000°; N Plg8.0000°,Azm360.0000°; P Plg82.0000°,Azm194.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**25 04 11 26.9–.67**	**38.26N–.04**	**141.79E–.06**	**53–5**	**4.2b,3.5s**	**83**	**0-146**
NIED	III	25 04 11 00	38.30N	141.60E	56	4.3W,3.5s		**¶602693551**
ISCJB	III	25 04 11 26.8–.54	38.31N–.04	141.69E–.06	65–4	4.2b,3.5s		
NEIC	III	25 04 11 27.3–.59	38.28N	141.74E	56–5	4.4b,3.5s		
IDC	III	25 04 11 27.6–.74	38.31N	141.69E	55–5	4.2,4.0		
JMA	III	25 04 11 28.4–.10	38.32N	141.57E	60–1	4.3,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ30.00000°,λ38.00000°. NP2:ϕ_s235.00000°,δ72.00000°,λ114.00000°. $M_0$3.07000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.3km az=23.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.2km az=132.0.
IDC Error ellipse: s-maj=15.0km s-min=12.8km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**25 04 49 36.3–1.5**	**37.29N–.04**	**141.34E–.08**	**32–10**	**3.3b**	**24**	**0-57**
NIED	III	25 04 49 00	37.30N	141.20E	29	3.4W		**¶17198450**
IDC	III	25 04 49 29.6–2.7	37.59N	141.70E	0	3.5,3.4b		
ISCJB	III	25 04 49 36.6–1.2	37.27N–.04	141.33E–.08	28–5	3.3b,3.4b		
JMA	III	25 04 49 38.7–.10	37.30N	141.18E	36–1	3.5,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ6.00000°,λ-116.00000°. NP2:ϕ_s214.00000°,δ84.00000°,λ-87.00000°. $M_0$1.33000×10^{14}
IDC Error ellipse: s-maj=65.9km s-min=30.1km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.7km az=18.7.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**25 05 13 46.9–.37**	**37.90N–.05**	**143.07E–.04**	**18**	**4.7b,4.2s**	**193**	**1-145**
NIED	III	25 05 13 00	38.00N	143.10E	11	4.5W,4.2s		**¶16359875**
IDC	III	25 05 13 44.0–.50	37.91N	143.13E	0	4.5,4.4		
ISCJB	III	25 05 13 45.4–.21	37.91N–.03	143.08E–.03	18	4.7b,4.1s		
BJI	III	25 05 13 46.4	37.97N	143.07E	30	4.9b,4.7b		
JMA	III	25 05 13 46.2–.20	37.96N	143.14E	36	4.6,4.7b		
NEIC	III	25 05 13 47.1–2.0	37.92N	143.06E	18–12	4.8b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ27.00000°,λ-80.00000°. NP2:ϕ_s300.00000°,δ64.00000°,λ-95.00000°. $M_0$6.75000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=156.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=132.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**25 05 21 25.6–.10**	**35.97N**	**141.20E**	**25–2**	**3.5**		
								¶602692972

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(558) Ethiopia

ISC	**III**	**25 05 21 34.2–.89**	**15.33N–.04**	**39.78E–.04**	**15–5**	**4.8b,4.0s**	**500**	**3-125**
DSN	III	25 05 21 16.6–2.9	11.68N	40.78E	10	4.8b,4.0s		**¶16359656**
BJI	III	25 05 21 26.2	15.05N	38.97E	10	5.1b,4.8b		
MOS	III	25 05 21 31.9–.91	15.33N	39.72E	10	5.1b,4.8b		
IDC	III	25 05 21 31.8–.47	15.29N	39.71E	0	4.7,4.7b		
CSEM	III	25 05 21 33.6–.12	15.29N	39.74E	10	4.8b,4.7b		
NEIC	III	25 05 21 33.4–.20	15.29N	39.74E	10	4.8b,4.7b		
ISCJB	III	25 05 21 34.8–.66	15.28N–.04	39.76E–.03	33–6	4.8b,4.0s		
DHMR	III	25 05 21 38.6–1.4	15.97N	40.49E	5–999	5.0b,4.0s		
SGS	III	25 05 21 41.2	15.58N	40.05E	17	5.0b,4.0s		

ISC Event type fe.
DSN Error ellipse: s-maj=101.2km s-min=23.0km az=153.0.
MOS Error ellipse: s-maj=8.6km s-min=3.9km az=99.2.
IDC Error ellipse: s-maj=13.2km s-min=11.1km az=101.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=21.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=4.3km az=65.0. Felt at Asmara. Also felt at Adwa, Ethiopia.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.3km az=12.2.
DHMR Error ellipse: s-maj=487.4km s-min=943.2km az=-1.0.

(227) Eastern Honshu

ISC	**III**	**25 05 54 22.5–1.2**	**35.31N–.04**	**138.73E–.04**	**18–6**		**12**	**0-43**
IDC	III	25 05 54 04.0–9.0	34.19N	139.04E	0	3.5,3.5b		**¶17198460**
ISCJB	III	25 05 54 22.7–.83	35.32N–.04	138.74E–.05	22–10	3.2b,3.5b		
JMA	III	25 05 54 23.3	35.31N	138.71E	13–1	2.5,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=147.5km s-min=63.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.9km az=141.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s40.00000°,δ78.00000°,λ-31.00000°. NP2:ϕ_s137.00000°,δ60.00000°,λ-166.00000°. Principal axes: T Plg12.0000°,Azm92.0000°; N Plg57.0000°,Azm201.0000°; P Plg30.0000°,Azm355.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**25 06 35 38.2–.96**	**36.98N–.03**	**140.79E–.04**	**11–6**	**4.2b**	**64**	**0-82**
NIED	III	25 06 35 00	37.00N	140.80E	5	3.8W		**¶602692503**
IDC	III	25 06 35 36.5–.78	36.98N	140.78E	0	4.0,3.9		
ISCJB	III	25 06 35 37.4–.72	36.98N–.03	140.93E–.05	16–4	4.2b,3.9		
JMA	III	25 06 35 38.5	36.98N	140.77E	9–1	3.9,3.9		
NEIC	III	25 06 35 43.4–.81	36.96N	140.79E	50–7	4.6b,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_s48.00000°,δ47.00000°,λ-93.00000°. $M_0$6.12000×10^{14}
IDC Error ellipse: s-maj=20.1km s-min=18.5km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=19.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s56.00000°,δ49.00000°,λ-86.00000°. NP2:ϕ_s230.00000°,δ41.00000°,λ-95.00000°. Principal axes: T Plg4.0000°,Azm143.0000°; N Plg3.0000°,Azm233.0000°; P Plg85.0000°,Azm0.0000°
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.0km az=80.0.

(160) Off east coast of North Island

ISC	**III**	**25 08 39 32.2–.55**	**38.14S–.03**	**178.22E–.04**	**62–4**	**5.0b**	**273**	**0-155**
ISCJB	III	25 08 39 30.0–.36	38.23S–.02	178.30E–.05	68–2	4.9b		**¶16359661**
WEL	III	25 08 39 31.4–.20	38.07S	178.26E	64–1	5.3L		
NEIC	III	25 08 39 31.7	38.08S	178.24E	63	5.4L,5.0b		
BJI	III	25 08 39 31.2	39.05S	177.38E	68	5.5b,5.2		
IDC	III	25 08 39 34.1–.92	38.06S	177.94E	70–6	4.8,4.6b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=11.6.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0. Felt from Auckland to Hawke"s Bay, maximum reported intensity MM 5.
NEIC Event type fe. Felt [IV] at Gisborne. Felt throughout the Raukumara area. After WEL.
IDC Error ellipse: s-maj=20.4km s-min=11.4km az=12.0.

(706) Northern Sumatera

ISC	**III**	**25 09 14 29.6–.29**	**1.11N–.03**	**99.05E–.03**	**110–2**	**5.1b**	**859**	**1-177**
BJI	III	25 09 14 24.7	0.56N	99.13E	120	5.1b,5.1b		**¶16359666**
ISCJB	III	25 09 14 29.1–.21	1.15N–.02	99.06E–.02	114–2	5.0b,5.1b		
IDC	III	25 09 14 29.8–.41	1.16N	99.18E	107–3	4.9,4.6		
KLM	III	25 09 14 29.9	1.04N	98.82E	72	5.8s,5.0b		
MOS	III	25 09 14 29.9–1.3	1.25N	99.18E	118	5.1b,5.0b		
NEIC	III	25 09 14 30.5–.47	1.14N	99.08E	110–4	5.2b,5.0b		
GCMT	III	25 09 14 30.5–.20	1.27N	99.00E	111–1	5.2W,5.0b		
DJA	III	25 09 14 30.2–.20	1N–2.0	99E–2.0	103–2	5.7b,5.4		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] on Pulau Nias and at Sibolga.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c96; s87,c151;Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.49±.15 $M_{\theta\theta}$-3.81±.17; $M_{\phi\phi}$1.32±.20; $M_{r\theta}$1.77±.11; $M_{\theta\phi}$-5.71±.17; $M_{\phi r}$-3.40±.13; Best double couple: NP1:ϕ_s198.00000°,δ67.00000°,λ29.00000°. NP2:ϕ_s96.00000°,δ64.00000°,λ155.00000°. Principal axes: T 7.7750,Plg36.0000°,Azm58.0000°; N -0.2550,Plg54.0000°,Azm233.0000°; P -7.5190,Plg2.0000°,Azm326.0000° $M_0$7.64700×10^{16}

(229) Off east coast of Honshu

ISC	**III**	**25 09 43 47.2–.60**	**37.81N–.03**	**143.97E–.03**	**25–3**	**5.2b,5.0s**	**1111**	**2-156**
NIED	III	25 09 43 00	37.90N	143.70E	8	5.3W,5.0s		**¶16359667**
ISCJB	III	25 09 43 42.5–.75	37.83N–.02	143.86E–.02	2–4	5.2b,5.0s		
IDC	III	25 09 43 43.0–.39	37.69N	143.96E	0	5.1,5.1		
JMA	III	25 09 43 45.5–.20	37.89N	143.70E	10	5.2,5.1		
NEIC	III	25 09 43 45.1–.11	37.74N	143.88E	10	5.3b,5.1		
GCMT	III	25 09 43 45.2–.10	37.78N	143.98E	12	5.3W,5.1		
MOS	III	25 09 43 47.4–.92	37.96N	143.83E	33	5.4b,4.9s		
BJI	III	25 09 43 47.2	38.02N	143.69E	17	5.3s,5.2b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ30.00000°,λ-132.00000°. NP2:ϕ_s232.00000°,δ68.00000°,λ-69.00000°. $M_0$9.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=171.6.
IDC Error ellipse: s-maj=11.0km s-min=10.0km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=153.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c109; s110,c220; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.68±.01 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$-0.10±.04; $M_{\theta\phi}$0.79±.01; $M_{\phi r}$0.31±.04; Best double couple: NP1:ϕ_s186.00000°,δ60.00000°,λ-131.00000°. NP2:ϕ_s66.00000°,δ49.00000°,λ-41.00000°. Principal axes: T 1.2050,Plg6.0000°,Azm303.0000°; N -0.3270,Plg35.0000°,Azm209.0000°; P -0.8790,Plg55.0000°,Azm42.0000° $M_0$1.04200×10^{17}
MOS Error ellipse: s-maj=7.2km s-min=4.7km az=101.1.

(228) Near east coast of eastern Honshu

JMA	**III**	**25 09 48 42.0–.10**	**38.37N**	**141.99E**	**30–1**	**4.0**		
								¶602691967

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(224) Hokkaido region

ISC	**III**	**25 10 17 35.5–1.4**	**41.15N–.03**	**140.92E–.06**	**9–11**	**3.9b**	**21**	**0-61**
ISCJB	III	25 10 17 35.7–.53	41.15N–.03	140.89E–.05	14–4	3.7b		**¶17198482**
JMA	III	25 10 17 36.2	41.15N	140.87E	12–1	3.4		
IDC	III	25 10 17 42.1–4.2	41.13N	140.48E	66–46	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=1.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s191.00000°,δ60.00000°,λ98.00000°. NP2:ϕ_s355.00000°,δ31.00000°,λ77.00000°. Principal axes: T Plg74.0000°,Azm122.0000°; N Plg7.0000°,Azm7.0000°; P Plg14.0000°,Azm275.0000°
IDC Error ellipse: s-maj=61.2km s-min=20.7km az=103.0.

(162) South Island

WEL	**III**	**25 10 36 49.1–.09**	**43.60S**	**172.55E**	**5**	**3.0L**		
								¶600680291

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**III**	**25 11 36 24.3–.18**	**38.75N–.02**	**141.99E–.03**	**39–1**	**6.1b,6.0s**	**2169**	**1-160**
NIED	III	25 11 36 00	38.70N	142.10E	44	6.2W,6.0s		**¶602442668**
MOS	III	25 11 36 21.8–1.0	38.82N	142.02E	33	6.2b,6.0s		
BJI	III	25 11 36 21.0	38.65N	142.00E	30	6.3s,6.2		
ISCJB	III	25 11 36 22.2–.38	38.77N–.02	141.91E–.01	33–3	6.0b,6.0s		
GCMT	III	25 11 36 24.5–.10	38.78N	142.17E	46–0	6.2W,6.0s		
NEIC	III	25 11 36 24.0–.00	38.56N	142.14E	39	6.2W,6.0s		
JMA	III	25 11 36 24.2–.10	38.73N	142.11E	45–1	6.3,6.0s		
NEIC	III	25 11 36 24.5–.08	38.77N	141.88E	39	6.2W,6.2b		
IDC	III	25 11 36 26.1–1.6	38.78N	141.95E	54–14	6.0,6.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ102.00000°. $M_0$2.10000×10^{18}
MOS Error ellipse: s-maj=7.1km s-min=4.3km az=92.5.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=158.8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c310; s129,c491;Duration: 3$\hat{s}$1 Moment tensor: Scale 10^{18} Nm; M_{rr}1.88±.01 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$-1.83±.01; $M_{r\theta}$0.82±.01; $M_{\theta\phi}$-0.49±.01; $M_{\phi r}$1.60±.01; Best double couple: NP1:ϕ_s23.00000°,δ67.00000°,λ97.00000°. NP2:ϕ_s185.00000°,δ24.00000°,λ74.00000°. Principal axes: T 2.6140,Plg68.0000°,Azm306.0000°; N 0.0350,Plg7.0000°,Azm200.0000°; P -2.6420,Plg21.0000°,Azm108.0000° $M_0$2.62800×10^{18}
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{18}Nm; M_{rr}1.31 $M_{\theta\theta}$-0.24 $M_{\phi\phi}$-1.07 $M_{r\theta}$1.05 $M_{\theta\phi}$-0.19 $M_{\phi r}$2.29 Best double couple: NP1:ϕ_s23.00000°,δ77.00000°,λ94.00000°. NP2:ϕ_s187.00000°,δ13.00000°,λ74.00000°. Principal axes: T 2.9100,Plg57.0000°,Azm298.0000°; N -0.2300,Plg3.0000°,Azm202.0000°; P -2.6700,Plg32.0000°,Azm110.0000° $M_0$2.80000×10^{18}
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=145.0. Felt [IV] at Misawa. Also felt at Akiruno, Numata and Tokyo. Recorded [4 JMA] in Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s94 Moment tensor: Scale 10^{18}Nm; M_{rr}1.14 $M_{\theta\theta}$0.34 $M_{\phi\phi}$-1.48 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.24 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s165.00000°,δ28.00000°,λ53.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ108.00000°. Principal axes: T 1.7700,Plg62.0000°,Azm323.0000°; N 0.2200,Plg16.0000°,Azm199.0000°; P -1.9900,Plg22.0000°,Azm102.0000° $M_0$1.90000×10^{18}
IDC Error ellipse: s-maj=10.2km s-min=8.2km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**25 11 52 17.2–2.3**	**38.88N–.05**	**142.30E–.10**	**7–13**	**3.5b**	**18**	**1-59**
IDC	III	25 11 52 16.4–2.7	38.86N	142.33E	0	3.5,3.5b		**¶600566454**
ISCJB	III	25 11 52 17.7–2.1	38.86N–.05	142.4E–.10	22–11	3.6b,3.5b		
JMA	III	25 11 52 18.6–.10	38.91N	142.35E	24–2	3.9,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=69.6km s-min=30.6km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=7.5km az=10.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**25 12 13 50.6–.10**	**38.33N**	**141.93E**	**42–1**	**3.6**		
								¶17198493

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**25 12 17 46.0–1.1**	**36.99N–.04**	**140.79E–.06**	**9–7**	**3.1b**	**18**	**0-57**
ISCJB	III	25 12 17 44.6–1.0	36.97N–.04	140.90E–.08	12–4	3.2b		**¶17198496**
IDC	III	25 12 17 44.4–1.9	36.98N	140.78E	0	3.4,3.3		
JMA	III	25 12 17 46.0	36.98N	140.77E	8–1	3.3,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.9km az=11.8.
IDC Error ellipse: s-maj=28.3km s-min=20.8km az=169.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu
ISC III 25 12 29 51.4–.66 38.85N–.05 142.03E–.07 44–4 4.2b 58 1-78
JMA III 25 12 29 51.9–.10 38.88N 141.97E 50–1 4.0 ¶16361169
ISCJB III 25 12 29 51.1–.61 38.84N–.03 141.98E–.08 61–5 4.2b
NEIC III 25 12 29 53.5–.62 38.87N 141.99E 66–5 4.4b
IDC III 25 12 29 53.5–.82 38.79N 141.93E 68–5 4.2s,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.1km az=13.5.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=109.0. Recorded [3 JMA] in Miyagi.
IDC Error ellipse: s-maj=17.2km s-min=10.6km az=99.0.

(229) Off east coast of Honshu
ISC III 25 12 43 10.5–.70 37.81N–.04 143.88E–.04 19–2 5.1b,4.6s 944 2-153
NIED III 25 12 43 00 37.80N 143.80E 8 4.8W,4.6s ¶16359883
IDC III 25 12 43 06.9–.46 37.65N 143.97E 0 4.9,4.9
ISCJB III 25 12 43 08.4–.84 37.75N–.02 143.85E–.02 15–5 5.0b,4.7s
JMA III 25 12 43 10.1–.20 37.76N 143.80E 38 4.8,4.7s
BJI III 25 12 43 11.3 37.87N 143.67E 26 5.3b,4.9s
NEIC III 25 12 43 11.6–1.1 37.71N 143.84E 26–8 5.1b,4.9s
MOS III 25 12 43 12.8–.87 38.09N 143.78E 33 5.2b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ43.00000°,λ-25.00000°. NP2:ϕ_s162.00000°,δ73.00000°,λ-130.00000°. M_o2.20000×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=11.1km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.2km az=178.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.6km az=147.0.
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=102.0.

(228) Near east coast of eastern Honshu
ISC III 25 12 53 27.8–1.2 36.73N–.03 140.58E–.05 7–7 3.6b 26 0-91
IDC III 25 12 53 26.6–.77 36.71N 140.58E 0 3.9,3.7 ¶17198502
JMA III 25 12 53 27.7 36.74N 140.59E 5–1 4.0,3.7
ISCJB III 25 12 53 27.1–.78 36.71N–.03 140.66E–.05 12–5 3.5b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(162) South Island
WEL III 25 13 11 35.9–.10 43.48S 172.76E 11–0 4.2L
NEIC III 25 13 11 35.9 43.48S 172.76E 11 4.2L ¶16361171
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.

(228) Near east coast of eastern Honshu
ISC III 25 14 01 00.1–2.1 39.23N–.05 142.3E–.10 26–13 3.7b 22 0-50
IDC III 25 14 00 58.0–2.5 39.57N 142.13E 0 3.7,3.6 ¶17198512
JMA III 25 14 00 59.7–.10 39.16N 142.34E 36–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=53.5km s-min=29.6km az=150.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu
ISC III 25 14 10 41.8–1.8 37.48N–.05 141.86E–.06 10–10 4.2b 57 1-146
NIED III 25 14 10 00 37.40N 141.90E 5 4.1W ¶16462172
ISCJB III 25 14 10 40.8–1.1 37.42N–.04 142.00E–.05 18–7 4.2b
IDC III 25 14 10 40.2–.63 37.43N 141.84E 0 4.3,4.2
JMA III 25 14 10 41.6–.20 37.44N 141.93E 20–3 4.4,4.2
NEIC III 25 14 10 45.4–.49 37.50N 141.82E 35 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ40.00000°,λ-113.00000°. NP2:ϕ_s81.00000°,δ54.00000°,λ-72.00000°. M_o1.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=38.4.
IDC Error ellipse: s-maj=17.4km s-min=13.9km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.6km az=146.0.

(1) Central Alaska
ISC III 25 14 19 36.9–.32 62.68N–.03 151.54W–.04 100 4.6b 313 0-146
ISCJB III 25 14 19 35.8–.14 62.81N–.02 151.67W–.04 100 4.6b ¶603049253
MOS III 25 14 19 36.7–.86 62.76N 151.69W 113 4.8b
NEIC III 25 14 19 38.3 62.66N 151.48W 118 4.6b,4.3W
IDC III 25 14 19 39.2–1.5 62.87N 151.50W 117–11 4.5,4.2
BJI III 25 14 19 40.2 63.39N 152.14W 123 5.0b,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=147.2.
MOS Error ellipse: s-maj=12.4km s-min=5.3km az=95.5.
NEIC Event type fe. Felt [III] at Anchorage and [II] at Eagle River and Talkeetna. Also felt at Elmendorf AFB, Fort Richardson, Palmer and Trapper Creek. After AEIC. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.10 $M_{\theta\theta}$0.16 $M_{\phi\phi}$0.95 $M_{r\theta}$-3.07 $M_{\theta\phi}$2.70 $M_{\phi r}$-0.06 Best double couple: NP1:ϕ_s182.00000°,δ41.00000°,λ-165.00000°. NP2:ϕ_s80.00000°,δ80.00000°,λ-50.00000°. Principal axes: T 4.2200,Plg24.0000°,Azm140.0000° ; N 0.0000,Plg39.0000°,Azm252.0000°; P -4.2100,Plg41.0000°,Azm27.0000° M_o4.20000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=8.5km az=32.0.

(135) Near coast of central Chile
ISC III 25 14 48 43.8–1.2 34.51S–.03 71.83W–.04 3–8 4.4b 56 0-155
GUC III 25 14 48 42.7–1.1 34.49S 71.84W 14–7 4.4L ¶16480848
NEIC III 25 14 48 42.0 34.49S 71.84W 14 4.6b,4.4L
IDC III 25 14 48 44.0–.99 34.48S 71.64W 0 4.4,4.3L
ISC Event type fe.
GUC Error ellipse: s-maj=2.5km s-min=5.6km az=-1.0.
NEIC Event type fe. Felt [III] at Constitucion, Curico, Hualane, Linares, Maule, Paredones, Pichilemu and San Clemente; [II] at Chanco, Rancagua, Rio Claro, San Fernando and Talca. After GUC.
IDC Error ellipse: s-maj=32.3km s-min=27.5km az=72.0.

(2) Southern Alaska
ISC III 25 14 58 38.8–.78 61.52N–.03 150.94W–.03 70–7 3.4b 81 0-64
ISCJB III 25 14 58 37.4–.24 61.52N–.02 150.92W–.05 75–4 3.5b ¶16480849
NEIC III 25 14 58 39.0 61.52N 150.96W 65 3.4L
IDC III 25 14 58 40.3–5.3 61.71N 151.03W 80–42 3.6,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=41.2.
NEIC Event type fe. Felt at Anchorage, Cooper Landing, Eagle River, Talkeetna and Wasilla. After AEIC.
IDC Error ellipse: s-maj=43.5km s-min=16.0km az=60.0.

(229) Off east coast of Honshu
ISC III 25 15 01 14.2–.40 36.29N–.03 142.66E–.04 23–2 5.3b,4.6s 642 2-160
ISCJB III 25 15 01 10.8–.88 36.29N–.02 142.57E–.02 8–5 5.2b,4.6s ¶16359890
IDC III 25 15 01 10.7–.39 36.22N 142.72E 0 5.0,4.9
GCMT III 25 15 01 13.8–.50 36.28N 142.55E 16–1 5.0W,4.9
JMA III 25 15 01 13.9–.20 36.34N 142.57E 76 5.2,4.9
NEIC III 25 15 01 13.8–.73 36.24N 142.60E 18–4 5.3b,4.9
MOS III 25 15 01 14.1–.88 36.60N 142.61E 24 5.4b,4.7s
BJI III 25 15 01 17.1 36.53N 142.04E 28 5.3b,5.1b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=163.5.
IDC Error ellipse: s-maj=10.7km s-min=10.1km az=165.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s67,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.79±.26 $M_{\theta\theta}$1.28±.16; $M_{\phi\phi}$1.51±.15; $M_{r\theta}$-0.33±.48; $M_{\theta\phi}$0.86±.08; $M_{\phi r}$2.16±.54; Best double couple: NP1:ϕ_s194.00000°,δ65.00000°,λ-108.00000°. NP2:ϕ_s51.00000°,δ31.00000°,λ-57.00000°. Principal axes: T 2.7300,Plg18.0000°,Azm297.0000°; N 1.0380,Plg16.0000°,Azm202.0000° ; P -3.7680,Plg66.0000°,Azm72.0000° M_o3.24900×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.6km az=143.0.
MOS Error ellipse: s-maj=6.6km s-min=4.3km az=103.0.

(228) Near east coast of eastern Honshu
JMA III 25 15 01 29.3–.10 36.34N 140.58E 52–1 3.0
¶603310065
JMA Event type fe.

(230) Near south coast of eastern Honshu
ISC III 25 15 28 27.2–.87 35.18N–.03 139.01E–.06 10–7 3.5b 21 0-55
NIED III 25 15 28 00 35.20N 139.00E 8 3.6W ¶17198519
IDC III 25 15 28 26.4–1.3 35.12N 138.89E 0 3.5,3.5
ISCJB III 25 15 28 26.9–.48 35.18N–.03 138.97E–.06 9–5 3.4b,3.5
JMA III 25 15 28 27.4 35.18N 139.02E 8–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ77.00000°,λ-4.00000°. NP2:ϕ_s96.00000°,δ86.00000°,λ-167.00000°. M_o2.38000×10^{14}
IDC Error ellipse: s-maj=28.6km s-min=12.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.4km az=170.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ85.00000°,λ-42.00000°. NP2:ϕ_s275.00000°,δ49.00000°,λ-173.00000°. Principal axes: T Plg24.0000°,Azm235.0000°; N Plg48.0000°,Azm355.0000°; P Plg32.0000° ,Azm129.0000°

(228) Near east coast of eastern Honshu
ISC III 25 15 46 05.0–.69 36.68N–.05 141.10E–.06 48–5 4.3b 75 0-147
NIED III 25 15 46 00 36.70N 141.10E 44 4.2W ¶600566671
ISCJB III 25 15 46 03.6–.69 36.65N–.03 141.15E–.07 51–4 4.2b
JMA III 25 15 46 04.4–.10 36.68N 141.12E 45–1 4.2
NEIC III 25 15 46 04.9–.96 36.63N 141.18E 49–8 4.7b
IDC III 25 15 46 05.3–.54 36.63N 141.13E 49–5 4.1,4.0
BJI III 25 15 46 17.2 36.88N 139.81E 105 5.0b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ23.00000°,λ103.00000°. NP2:ϕ_s310.00000°,δ68.00000°,λ85.00000°. M_o2.60000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.3km az=13.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.5km az=102.0.
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=127.0.

(228) Near east coast of eastern Honshu
ISC III 25 16 10 21.7–1.6 36.58N–.05 141.08E–.07 20–7 3.6b 23 0-80
NIED III 25 16 10 00 36.70N 140.90E 62 3.8W ¶16361172
JMA III 25 16 10 25.0–.10 36.64N 140.91E 49–1 3.7
IDC III 25 16 10 26.7–2.4 36.51N 140.85E 64–26 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ33.00000°,λ58.00000°. NP2:ϕ_s45.00000°,δ63.00000°,λ109.00000°. M_o5.14000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=14.9km az=79.0.

(228) Near east coast of eastern Honshu
ISC III 25 16 49 28.5–1.3 36.90N–.04 141.31E–.08 41–13 3.7b 23 0-57
NIED III 25 16 49 00 36.90N 141.10E 47 3.7W ¶602691575
ISCJB III 25 16 49 27.4–.86 36.87N–.04 141.35E–.09 47–8 3.6b
JMA III 25 16 49 29.9–.10 36.94N 141.14E 50–1 3.9
IDC III 25 16 49 31.6–2.6 36.73N 141.20E 73–23 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ16.00000°,λ-141.00000°. NP2:ϕ_s249.00000°,δ80.00000°,λ-77.00000°. M_o4.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.8km az=8.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=11.8km az=63.0.

(227) Eastern Honshu
ISC III 25 17 33 23.6–1.3 37.11N–.04 140.84E–.07 8–7 18 0-57
ISCJB III 25 17 33 22.8–1.1 37.10N–.04 140.93E–.08 8–5 3.4b ¶600566763
IDC III 25 17 33 22.5–2.3 37.00N 140.97E 0 3.6,3.4b
JMA III 25 17 33 24.3 37.10N 140.81E 7–1 3.1,3.4b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.3km az=176.7.
IDC Error ellipse: s-maj=44.5km s-min=31.1km az=42.0.
JMA Event type fe.

(238) Ryukyu Islands
ISC III 25 17 54 34.1–.78 28.40N–.04 129.55E–.05 43–6 3.7b 43 0-77
ISCJB III 25 17 54 33.7–.36 28.39N–.03 129.56E–.06 55–3 3.7b ¶17198539
JMA III 25 17 54 34.6–.10 28.43N 129.54E 40–2 3.9
IDC III 25 17 54 36.7–3.3 28.43N 129.47E 70–29 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=3.5km az=30.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=16.4km az=83.0.

(228) Near east coast of eastern Honshu
ISC III 25 19 30 14.5–1.1 38.42N–.04 142.10E–.06 42–10 4.2b,3.6s 86 1-146
NIED III 25 19 30 00 38.40N 142.00E 50 4.1W,3.6s ¶16360595
ISCJB III 25 19 30 13.7–.63 38.42N–.03 142.07E–.06 49–5 4.3b,3.5s
BJI III 25 19 30 14.7 38.63N 142.14E 57 4.7b,4.5b
NEIC III 25 19 30 15.5–1.1 38.45N 142.15E 51–12 4.5b,4.5b
JMA III 25 19 30 15.1–.10 38.45N 141.96E 48–1 4.2,4.5b
IDC III 25 19 30 17.2–2.2 38.43N 141.92E 68–20 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s64.00000°,δ50.00000°,λ141.00000°. NP2:ϕ_s181.00000°,δ61.00000°,λ47.00000°. M_o1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=25.1.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=10.8km az=137.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=13.0km az=103.0.

(228) Near east coast of eastern Honshu
ISC III 25 19 53 31.5–2.0 38.37N–.08 141.99E–.09 34–4 3.6b 18 1-58
NIED III 25 19 53 00 38.40N 142.10E 68 3.9W ¶17198544
JMA III 25 19 53 30.4–.10 38.39N 142.07E 34–1 3.7
ISCJB III 25 19 53 30.5–1.6 38.37N–.07 142.1E–.10 41–12 3.5b,2.5s
IDC III 25 19 53 35.8–4.6 38.31N 142.03E 76–40 3.5,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ44.00000°,λ31.00000°. NP2:ϕ_s323.00000°,δ69.00000°,λ130.00000°. M_o7.47000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=11.0km az=10.7.
IDC Error ellipse: s-maj=41.0km s-min=22.7km az=81.0.

(228) Near east coast of eastern Honshu
ISC III 25 20 22 05.3–1.6 38.34N–.07 141.9E–.10 48–13 3.7b 30 0-77
IDC III 25 20 21 58.6–.86 38.30N 141.77E 0 3.9,3.7 ¶602691365
NIED III 25 20 22 00 38.30N 141.80E 32 3.7W,3.7
ISCJB III 25 20 22 04.6–.98 38.33N–.06 141.8E–.10 58–7 3.6b,3.7
JMA III 25 20 22 05.4–.10 38.34N 141.82E 49–1 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=18.0km az=118.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ6.00000°,λ-72.00000°. NP2:ϕ_s218.00000°,δ84.00000°,λ-92.00000°. M_o3.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=8.1km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu
JMA III 25 20 23 54.4 36.78N 140.90E 27–1 3.5
¶602691363
JMA Event type fe.

(228) Near east coast of eastern Honshu
ISC III 25 20 52 09.9–1.1 35.87N–.04 141.02E–.06 16–7 4.0b 60 0-148
NIED III 25 20 52 00 35.90N 141.00E 20 4.1W ¶602691337
IDC III 25 20 52 07.3–.59 35.78N 141.06E 0 4.0,3.9
ISCJB III 25 20 52 07.9–1.0 35.81N–.03 141.18E–.05 15–6 3.9b,3.7s
JMA III 25 20 52 10.4–.10 35.86N 140.93E 23–1 4.1,3.7s
NEIC III 25 20 52 12.2–.39 35.77N 141.07E 35 4.3b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ39.00000°,λ-47.00000°. NP2:ϕ_s319.00000°,δ63.00000°,λ-119.00000°. M_o1.61000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=13.6km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.3km az=173.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.8km az=124.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu
ISC III 25 21 43 01.7–.96 36.35N–.05 140.95E–.07 20–6 3.6b 23 0-78
NIED III 25 21 43 00 36.30N 141.00E 23 3.5W ¶17198557
IDC III 25 21 43 01.3–.99 36.91N 140.91E 0 3.8,3.7b

JMA III 25 21 43 01.9–.10 36.32N 140.98E 42–1 3.5,3.7b
ISCJB III 25 21 43 02.1–1.0 36.34N–.05 141.00E–.07 36–8 3.6b,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ14.00000°,λ-57.00000°. NP2:ϕ_s187.00000°,δ78.00000°,λ-98.00000°. $M_0$2.25000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 25 22 16 26.8–2.1 37.12N–.07 141.44E–.09 7–13 3.5b 21 1-57
IDC III 25 22 16 16.6–2.6 36.33N 142.45E 0 3.7,3.6L **¶17198565**
ISCJB III 25 22 16 26.5–2.0 37.09N–.06 141.53E–.08 13–15 3.5b,3.6L
JMA III 25 22 16 28.6–.10 37.08N 141.39E 34–1 3.7,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=71.8km s-min=27.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.8km az=38.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 25 22 57 47.6–2.4 36.98N–.05 141.0E–.10 12–10 12 0-69
IDC III 25 22 57 44.0–5.3 36.96N 141.33E 0 3.7b,3.6 **¶600567080**
JMA III 25 22 57 50.1 36.99N 140.77E 8–1 2.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=108.2km s-min=46.5km az=139.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 25 23 03 30.5–.63 36.81N–.05 141.06E–.06 52–5 3.8b 42 0-147
NIED III 25 23 03 00 36.80N 141.10E 53 4.1W **¶17198570**
ISCJB III 25 23 03 28.9–.62 36.80N–.04 141.09E–.07 57–5 3.7b
JMA III 25 23 03 29.7–.10 36.82N 141.11E 47–1 3.8
IDC III 25 23 03 30.8–.67 36.87N 140.96E 55–6 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ50.00000°,λ152.00000°. NP2:ϕ_s57.00000°,δ69.00000°,λ44.00000°. $M_0$1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.2km az=19.3.
JMA Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=12.8km az=137.0.

(228) Near east coast of eastern Honshu

ISC III 25 23 16 39.7–1.1 38.14N–.06 141.77E–.08 45–6 3.9b 39 0-73
ISCJB III 25 23 16 39.6–.88 38.16N–.04 141.72E–.09 59–5 3.9b **¶600567111**
JMA III 25 23 16 40.6–.10 38.19N 141.69E 50–1 3.6
IDC III 25 23 16 42.6–1.4 38.16N 141.73E 72–7 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.4km az=26.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=16.6km az=78.0.

(228) Near east coast of eastern Honshu

ISC III 25 23 50 09.3–1.8 39.08N–.04 142.40E–.07 25–12 4.3b,3.8s 73 1-145
NIED III 25 23 50 00 39.10N 142.30E 35 4.4W,3.8s **¶16361174**
JMA III 25 23 50 09.4–.10 39.13N 142.41E 33–2 4.4,3.8s
ISCJB III 25 23 50 10.1–.76 39.11N–.03 142.37E–.06 42–5 4.1b,3.8s
IDC III 25 23 50 12.8–2.2 39.07N 142.27E 53–20 4.1,4.0
NEIC III 25 23 50 13.3–.70 39.12N 142.30E 57–6 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ12.00000°,λ-138.00000°. NP2:ϕ_s183.00000°,δ82.00000°,λ-81.00000°. $M_0$4.78000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.0km az=21.1.
IDC Error ellipse: s-maj=15.5km s-min=12.9km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.2km az=128.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC III 26 00 10 58.5–2.1 39.16N–.05 142.36E–.10 25–13 3.5b 23 1-59
ISCJB III 26 00 10 57.1–1.5 39.13N–.04 142.4E–.10 26–8 3.6b **¶17198580**
JMA III 26 00 10 58.4–.10 39.17N 142.40E 30–2 4.1
IDC III 26 00 11 04.8–4.3 39.03N 142.23E 80–39 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=6.6km az=7.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=23.4km az=79.0.

(228) Near east coast of eastern Honshu

JMA III 26 00 15 12.6–.10 35.74N 140.89E 9–1 3.5
NIED III 26 00 15 00 35.70N 140.90E 5 3.7W **¶600567146**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ23.00000°,λ-79.00000°. NP2:ϕ_s147.00000°,δ67.00000°,λ-95.00000°. $M_0$4.25000×10^{14}

(228) Near east coast of eastern Honshu

ISC III 26 01 05 11.7–3.4 38.99N–.05 142.31E–.09 25–23 3.8b 31 1-88
NIED III 26 01 05 00 39.00N 142.40E 26 3.7W **¶16480952**
ISCJB III 26 01 05 11.8–1.1 38.97N–.04 142.35E–.09 40–9 3.7b
JMA III 26 01 05 11.3–.10 38.96N 142.35E 34–2 3.8
IDC III 26 01 05 16.7–2.8 38.93N 142.26E 72–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ22.00000°,λ-151.00000°. NP2:ϕ_s184.00000°,δ80.00000°,λ-71.00000°. $M_0$4.62000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.5km az=20.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=16.5km az=146.0.

(228) Near east coast of eastern Honshu

ISC III 26 01 09 06.8–.84 38.36N–.06 142.27E–.07 24 3.9b 22 1-64
NIED III 26 01 09 00 38.40N 142.30E 26 3.7W **¶17198588**
IDC III 26 01 09 03.2–.91 38.32N 142.42E 0 3.8,3.7
ISCJB III 26 01 09 05.1–.66 38.37N–.06 142.34E–.06 24 3.7b,3.7
JMA III 26 01 09 06.4–.20 38.43N 142.29E 30–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ41.00000°,λ-155.00000°. NP2:ϕ_s303.00000°,δ74.00000°,λ-51.00000°. $M_0$4.30000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=18.1km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.3km az=172.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC III 26 01 34 40.5–.51 37.66N–.06 143.02E–.06 24 4.3b 102 2-145
NIED III 26 01 34 00 37.70N 143.00E 8 4.2W **¶16361362**
IDC III 26 01 34 37.1–.58 37.73N 142.99E 0 4.4L,4.3
ISCJB III 26 01 34 38.7–.31 37.68N–.04 143.05E–.04 24 4.2b,4.3
JMA III 26 01 34 38.5–.20 37.73N 142.99E 18 4.4,4.3
NEIC III 26 01 34 40.9–1.9 37.70N 143.03E 27–13 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ53.00000°,λ149.00000°. NP2:ϕ_s345.00000°,δ66.00000°,λ41.00000°. $M_0$2.05000×10^{15}
IDC Error ellipse: s-maj=16.8km s-min=13.5km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=155.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=122.0.

(228) Near east coast of eastern Honshu

ISC III 26 01 48 44.7–1.5 39.50N–.06 142.2E–.10 50–9 3.8b 20 0-67
ISCJB III 26 01 48 45.2–1.2 39.54N–.06 142.1E–.10 55–5 3.6b **¶17198590**
JMA III 26 01 48 46.1–.10 39.52N 142.10E 48–1 3.3
IDC III 26 01 48 48.9–7.7 39.32N 142.26E 96–51 3.7,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=19.5km s-min=8.7km az=11.8.
JMA Event type fe.
IDC Error ellipse: s-maj=96.7km s-min=25.3km az=72.0.

(228) Near east coast of eastern Honshu

ISC III 26 02 57 12.8–1.3 39.11N–.06 142.5E–.10 20–7 3.6b 18 1-59
ISCJB III 26 02 57 12.3–1.8 39.15N–.06 142.6E–.10 27–10 3.9s,3.6b **¶17198595**
JMA III 26 02 57 13.8–.10 39.15N 142.48E 30–1 3.7,3.6b
IDC III 26 02 57 19.5–4.7 39.06N 142.39E 80–44 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.7km s-min=9.5km az=172.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.9km s-min=28.7km az=73.0.

(228) Near east coast of eastern Honshu

ISC III 26 03 00 25.4–1.9 37.29N–.07 141.4E–.10 44–15 3.7b 13 1-57
IDC III 26 03 00 20.7–2.8 37.70N 141.48E 0 3.6,3.5b **¶17198596**
JMA III 26 03 00 26.5–.10 37.32N 141.27E 50–1 3.3,3.5b
ISCJB III 26 03 00 26.0–1.1 37.33N–.05 141.3E–.10 51–8 3.5b,3.5b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC III 26 03 29 23.7–1.9 37.95N–.05 142.23E–.07 25–13 3.7b 37 1-146
NIED III 26 03 29 00 38.00N 141.90E 65 4.0W **¶17198598**
IDC III 26 03 29 20.1–.75 38.12N 142.53E 0 3.9,3.7
JMA III 26 03 29 28.4–.10 38.03N 141.95E 48–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ67.00000°,λ2.00000°. NP2:ϕ_s308.00000°,δ88.00000°,λ157.00000°. $M_0$9.88000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=19.7km az=73.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC III 26 04 03 50.3–.57 37.69N–.06 142.73E–.07 21 4.4b,3.3s 71 1-145
NIED III 26 04 03 00 37.60N 142.80E 17 4.1W,3.3s **¶600567324**
JMA III 26 04 03 46.7–.30 37.64N 142.76E 13 4.5,3.3s
IDC III 26 04 03 46.6–.60 37.61N 142.79E 0 4.3,4.2
ISCJB III 26 04 03 48.3–.39 37.64N–.04 142.73E–.05 21 4.3b,3.3s
NEIC III 26 04 03 49.3–.82 37.67N 142.85E 17–4 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ77.00000°,λ168.00000°. NP2:ϕ_s350.00000°,δ78.00000°,λ13.00000°. $M_0$1.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=13.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.2km az=144.5.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.8km az=142.0.

(162) South Island

WEL III 26 04 29 03.1–.16 43.57S 172.89E 10–0 3.8L
¶16361177
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC III 26 05 02 32.7–1.1 36.43N–.08 140.74E–.08 48–7 3.7b 31 0-162
NIED III 26 05 02 00 36.40N 140.70E 56 3.7W **¶602695368**
ISCJB III 26 05 02 31.9–.77 36.42N–.07 140.74E–.08 55–4 3.6b,3.3s
JMA III 26 05 02 32.8–.10 36.43N 140.69E 52–1 3.7,3.3s
IDC III 26 05 02 34.6–3.0 36.41N 140.60E 65–26 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ98.00000°. NP2:ϕ_s9.00000°,δ69.00000°,λ87.00000°. $M_0$4.53000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.4km az=137.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s26.00000°,δ63.00000°,λ94.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ82.00000°. Principal axes: T Plg72.0000°,Azm306.0000°; N Plg4.0000°,Azm204.0000°; P Plg18.0000° ,Azm113.0000°
IDC Error ellipse: s-maj=23.4km s-min=20.0km az=176.0.

(228) Near east coast of eastern Honshu

ISC III 26 05 20 20.1–2.7 38.79N–.07 142.5E–.10 2–16 3.5b 16 1-63
NIED III 26 05 20 00 38.80N 142.50E 62 4.5W **¶602695333**
JMA III 26 05 20 21.8–.20 38.81N 142.54E 29–3 3.9
ISCJB III 26 05 20 21.7–1.9 38.84N–.06 142.5E–.10 21–10 3.3b
IDC III 26 05 20 37.7–3.1 38.59N 141.39E 114–30 3.5,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ22.00000°,λ-10.00000°. NP2:ϕ_s130.00000°,δ86.00000°,λ-111.00000°. $M_0$5.93000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=8.7km az=22.2.
IDC Error ellipse: s-maj=33.2km s-min=22.9km az=72.0.

(228) Near east coast of eastern Honshu

JMA III 26 05 42 38.4–.10 39.23N 142.42E 30–1 3.7
¶603145337
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 26 06 35 35.2–2.3 38.18N–.08 142.0E–.20 47–21 3.6b 28 1-146
ISCJB III 26 06 35 34.8–1.2 38.18N–.06 142.0E–.10 59–9 3.6b **¶17198610**
JMA III 26 06 35 35.1–.10 38.15N 141.95E 50–1 4.0
IDC III 26 06 35 37.9–3.3 38.11N 141.85E 75–31 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.5km s-min=8.0km az=25.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=20.4km az=109.0.

(228) Near east coast of eastern Honshu

ISC III 26 06 55 13.7–1.9 36.51N–.06 140.95E–.08 11–10 3.6b 19 0-91
NIED III 26 06 55 00 36.50N 141.00E 5 3.8W **¶17198611**
ISCJB III 26 06 55 11.5–1.3 36.46N–.05 141.06E–.06 5–6 3.5b
JMA III 26 06 55 13.2 36.51N 140.98E 16–1 3.7
IDC III 26 06 55 19.2–3.5 36.36N 140.69E 50–34 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ48.00000°,λ-50.00000°. NP2:ϕ_s153.00000°,δ55.00000°,λ-125.00000°. $M_0$5.02000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.4km az=145.5.
JMA Event type fe.
IDC Error ellipse: s-maj=26.1km s-min=22.5km az=41.0.

(228) Near east coast of eastern Honshu

ISC III 26 07 18 35.7–1.2 35.82N–.05 140.83E–.07 5–9 3.6b 16 0-65
JMA III 26 07 18 34.9–.10 35.82N 140.91E 10–1 3.7 **¶602443893**
ISCJB III 26 07 18 35.0–.97 35.86N–.04 140.91E–.06 6–6 4.0s,3.5b
IDC III 26 07 18 36.2–14 35.81N 140.78E 0 4.0,4.0s
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.8km az=167.7.
IDC Error ellipse: s-maj=373.1km s-min=27.9km az=173.0.

(244) Taiwan

ISC III 26 07 19 12.5–.55 24.87N–.03 121.92E–.03 99–4 3.9b 200 0-98
BJI III 26 07 19 09.5 24.87N 121.91E 90 4.8b,4.5b **¶16361364**
ISCJB III 26 07 19 11.5–.18 24.85N–.02 121.94E–.02 98–1 4.0b,4.5b
NEIC III 26 07 19 11.8–.41 24.83N 121.93E 98–5 4.7b,4.5b
JMA III 26 07 19 11.2–.20 24.81N 121.88E 95–2 3.9,4.5b
IDC III 26 07 19 12.6–4.0 24.87N 121.89E 106–39 4.0,4.0
TAP III 26 07 19 12.1 24.84N 121.92E 93–0 4.7L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=158.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=7.9km az=134.0. Felt [II] at Taipei. Also felt at Shulin and Zhongli. Recorded [2 TAP] in Miaoli, Taipei, Taoyuan and Yilan; [1 TAP] in Hsinchu and Hualien.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=31.8km s-min=15.4km az=64.0.
TAP B.

(228) Near east coast of eastern Honshu

ISC III 26 07 19 31.2–1.2 36.50N–.05 141.11E–.04 8–6 4.7b,4.1s 178 0-147
NIED III 26 07 19 00 36.60N 141.00E 5 4.6W,4.1s **¶16480985**
ISCJB III 26 07 19 28.9–.81 36.40N–.04 141.14E–.03 2–4 4.6b,4.1s
IDC III 26 07 19 29.2–.51 36.48N 141.01E 0 4.7L,4.4
JMA III 26 07 19 32.0 36.57N 141.01E 24–1 4.6,4.4
BJI III 26 07 19 33.7 36.22N 141.40E 42 4.9b,4.6b
NEIC III 26 07 19 35.2–.81 36.36N 141.06E 36–7 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ55.00000°,λ-139.00000°. NP2:ϕ_s198.00000°,δ58.00000°,λ-42.00000°. $M_0$8.82000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.5km az=163.7.
IDC Error ellipse: s-maj=14.0km s-min=12.7km az=130.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=5.1km az=148.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

JMA III 26 07 29 19.7–.10 38.72N 142.18E 32–1 3.6

¶602694949
JMA Event type fe.
(376) Portugal
ISC III 26 07 36 28.2–.90 37.35N–.02 8.34W–.02 18–2 432 0-13
CSEM III 26 07 36 28.9–.16 37.36N 8.34W 15 4.4L ¶16360616
LDG III 26 07 36 28.6–.19 37.27N 8.30W 10 3.9L
SFS III 26 07 36 29.0 37.40N 8.40W 8 3.8L
NEIC III 26 07 36 29.4 37.41N 8.41W 8 3.8
INMG III 26 07 36 30.8–1.4 37.30N 8.43W 21–1 4.0L,3.7
IGIL III 26 07 36 30.9 37.29N 8.42W 21 4.1L,3.7
MDD III 26 07 36 30.1–.23 37.41N 8.40W 10–0 4.0,3.7
CNRM III 26 07 36 30.6 37.17N 8.56W 30 3.7,3.7
ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=53.0.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=148.0.
SFS Event type ke.
NEIC Event type fe. Felt [IV] at Silves and [II] at Albufeira, Almancil, Boliqueime, Lagoa, Loule and Portimao. Also felt at Alportel, Armacao de Pera, Beja, Castro Verde, Ferreiras, Monchique, Odemira, Olhao, Santo Andre and Sao Bartolomeu de Messines. Felt at Ayamonte, Spain. After MDD.
INMG Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=61.0.
MDD Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=164.0. EMS: II INTENSIDAD MAXIMA ESPAA. EMS: IV INTENSIDAD MAXIMA (INSTITUTO METEOROLOGIA-PORTUGAL). PRXIMO.
(228) Near east coast of eastern Honshu
ISC III 26 07 52 32.2–1.7 36.49N–.05 140.98E–.05 10–10 4.5b 100 0-147
NIED III 26 07 52 00 36.50N 141.10E 5 4.1W ¶602695784
IDC III 26 07 52 29.7–.56 36.49N 140.96E 0 4.3L,4.2
JMA III 26 07 52 32.5 36.56N 141.01E 25–1 4.4,4.2
NEIC III 26 07 52 37.2–.64 36.45N 140.80E 48–6 4.6b,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ58.00000°,λ-143.00000°. NP2:ϕ_s200.00000°,δ59.00000°,λ-38.00000°. $M_0$1.68000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.6km az=68.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=113.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
ISC III 26 07 56 30.9–1.4 36.51N–.03 141.08E–.05 7–8 4.5b,3.8s 74 0-147
NIED III 26 07 56 00 36.50N 141.00E 5 4.3W,3.8s ¶16361366
IDC III 26 07 56 29.1–.58 36.44N 140.92E 0 4.6L,4.1
JMA III 26 07 56 31.9 36.55N 141.01E 25–1 4.5,4.1
BJI III 26 07 56 33.0 36.36N 140.77E 28 4.9b,4.5b
ISCJB III 26 07 56 34.9–.88 36.56N–.03 140.60E–.05 13–5 4.5b,3.8s
NEIC III 26 07 56 42.1–.83 36.61N 140.18E 65–9 4.6b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ57.00000°,λ-167.00000°. NP2:ϕ_s226.00000°,δ79.00000°,λ-33.00000°. $M_0$2.96000×10^{15}
IDC Error ellipse: s-maj=16.8km s-min=14.7km az=82.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=31.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=174.0.
(229) Off east coast of Honshu
ISC III 26 08 02 21.0–.39 37.42N–.05 142.58E–.04 21 4.7b,4.1s 356 1-148
NIED III 26 08 02 00 37.40N 142.50E 5 4.7W,4.1s ¶16360619
IDC III 26 08 02 17.4–.50 37.27N 142.57E 0 4.6,4.5
JMA III 26 08 02 17.8–.20 37.37N 142.51E 4–3 4.5,4.5
ISCJB III 26 08 02 19.6–.20 37.36N–.03 142.54E–.03 21 4.7b,4.2s
BJI III 26 08 02 20.6 37.43N 142.73E 42 5.0b,4.7b
NEIC III 26 08 02 23.8–.50 37.31N 142.50E 42–4 4.7b,4.7b
MOS III 26 08 02 24.5–.94 37.75N 142.38E 44 5.0b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ10.00000°,λ-143.00000°. NP2:ϕ_s66.00000°,δ84.00000°,λ-82.00000°. $M_0$1.36000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=12.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=169.5.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=150.0.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=107.4.
(228) Near east coast of eastern Honshu
ISC III 26 08 23 34.2–1.8 36.55N–.06 141.00E–.07 15–10 3.7b 18 0-78
IDC III 26 08 23 31.5–.92 36.46N 140.99E 0 3.8,3.7L ¶600567507
ISCJB III 26 08 23 33.3–1.2 36.51N–.06 141.08E–.07 23–7 3.6b,3.7L
JMA III 26 08 23 34.5–.10 36.56N 141.01E 23–1 3.9,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=22.1km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.2km az=140.9.
JMA Event type fe.
(226) Near west coast of eastern Honshu
ISC III 26 09 15 00.7–1.4 40.29N–.04 139.35E–.05 13–9 3.9b,3.4s 32 1-146
NIED III 26 09 14 00 40.30N 139.20E 5 4.0W,3.4s ¶17198622
IDC III 26 09 14 58.9–.64 40.27N 139.26E 0 4.0,3.8
ISCJB III 26 09 14 58.8–1.2 40.31N–.04 139.24E–.04 11–8 3.7b,3.3s
JMA III 26 09 14 59.6–.10 40.29N 139.25E 17–1 4.2,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ47.00000°,λ54.00000°. NP2:ϕ_s188.00000°,δ54.00000°,λ122.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=18.9km s-min=14.5km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.9km az=162.5.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 26 10 18 34.4–.29 38.56N–.03 141.86E–.03 43–2 5.1b,4.7s 1188 0-160
NIED III 26 10 18 00 38.60N 141.90E 53 5.3W,4.7s ¶16455732
BJI III 26 10 18 29.1 38.37N 142.16E 37 5.2b,5.1b
MOS III 26 10 18 33.7–.81 38.80N 141.71E 38 5.4b,4.5s
JMA III 26 10 18 34.8–.10 38.57N 141.89E 49–1 5.2,4.5s
ISCJB III 26 10 18 34.7–.30 38.57N–.02 141.77E–.02 56–2 5.1b,4.6s
IDC III 26 10 18 36.3–1.8 38.56N 141.76E 58–16 5.0,4.8
NEIC III 26 10 18 36.7–.43 38.58N 141.74E 59–4 5.0b,4.8
GCMT III 26 10 18 36.7–.10 38.60N 141.93E 52–0 5.3W,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ22.00000°,λ85.00000°. NP2:ϕ_s21.00000°,δ68.00000°,λ92.00000°. $M_9$9.78000×10^{16}
MOS Error ellipse: s-maj=6.0km s-min=3.6km az=102.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s21.00000°,δ54.00000°,λ96.00000°. NP2:ϕ_s191.00000°,δ36.00000°,λ82.00000°. Principal axes: T Plg80.0000°,Azm316.0000°; N Plg5.0000°,Azm198.0000°; P Plg9.0000° ,Azm107.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=156.8.
IDC Error ellipse: s-maj=11.1km s-min=9.7km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=145.0. Recorded [4 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c156; s108,c211; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.77±.01; $M_{r\theta}$0.20±.01; $M_{\theta\phi}$-0.18±.01; $M_{\phi r}$0.64±.01; Best double couple: NP1:ϕ_s16.00000°,δ64.00000° ,λ92.00000°. NP2:ϕ_s193.00000°,δ26.00000°,λ87.00000°. Principal axes: T 1.1130,Plg71.0000°,Azm290.0000°; N -0.0590,Plg2.0000°,Azm196.0000° ; P -1.0540,Plg19.0000°,Azm105.0000° $M_0$1.08400×10^{17}
(228) Near east coast of eastern Honshu
ISC III 26 10 23 39.0–1.6 37.56N–.04 141.80E–.05 4–9 4.6b 97 1-146
NIED III 26 10 23 00 37.50N 141.80E 11 4.4W ¶16362929
BJI III 26 10 23 36.4 37.50N 142.44E 26 5.0b,4.5b
ISCJB III 26 10 23 38.5–1.4 37.53N–.03 141.83E–.03 9–8 4.4b,4.1s
JMA III 26 10 23 40.0–.10 37.52N 141.78E 22–2 4.6,4.1s
NEIC III 26 10 23 43.9–.62 37.56N 141.73E 36–6 4.7b,4.1s
IDC III 26 10 23 45.1–2.4 37.57N 141.68E 47–23 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ57.00000°,λ-37.00000°. NP2:ϕ_s204.00000°,δ60.00000°,λ-141.00000°. $M_0$5.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=157.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=136.0.
IDC Error ellipse: s-maj=16.7km s-min=13.4km az=111.0.
(228) Near east coast of eastern Honshu
ISC III 26 10 28 22.9–1.0 36.93N–.03 140.53E–.04 9–7 3.8b 26 0-147
IDC III 26 10 28 21.8–.83 36.90N 140.50E 0 3.9,3.7 ¶602694868
ISCJB III 26 10 28 22.7–.52 36.91N–.03 140.60E–.05 18–4 3.7b,3.7
JMA III 26 10 28 23.0 36.93N 140.53E 4–2 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=14.5km az=166.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=16.1.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 26 10 30 04.5–1.6 36.59N–.05 140.98E–.06 16–9 3.9b 31 0-147
NIED III 26 10 30 00 36.50N 141.00E 8 3.9W ¶16373237
ISCJB III 26 10 30 03.3–1.1 36.54N–.04 141.08E–.06 19–7 3.7b
JMA III 26 10 30 04.0–.10 36.56N 141.01E 24–1 3.9
IDC III 26 10 30 09.9–2.2 36.44N 140.75E 65–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ51.00000°,λ-127.00000°. NP2:ϕ_s195.00000°,δ52.00000°,λ-53.00000°. $M_0$8.62000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=31.3.
JMA Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=13.7km az=92.0.
(228) Near east coast of eastern Honshu
ISC III 26 10 35 45.9–2.1 37.53N–.05 141.75E–.07 11–12 3.9b 42 1-146
NIED III 26 10 35 00 37.50N 141.80E 11 3.9W ¶16481003
IDC III 26 10 35 44.2–.64 37.51N 141.71E 0 4.0,3.9
ISCJB III 26 10 35 44.6–1.2 37.48N–.04 141.90E–.06 15–8 3.9b,3.9
JMA III 26 10 35 46.1–.20 37.52N 141.80E 22–2 4.1,3.9
NEIC III 26 10 35 49.6–1.2 37.53N 141.77E 37–10 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ56.00000°,λ-141.00000°. NP2:ϕ_s91.00000°,δ59.00000°,λ-41.00000°. $M_0$7.17000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=14.9km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.1km az=24.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.8km az=129.0.
(228) Near east coast of eastern Honshu
ISC III 26 10 42 25.1–.36 36.22N–.03 141.47E–.04 27–2 4.7b,4.1s 342 1-147
BJI III 26 10 42 23.2 36.11N 141.46E 32 5.0b,4.9b ¶16361183
JMA III 26 10 42 24.1–.10 36.21N 141.54E 58–3 4.7,4.9b
ISCJB III 26 10 42 25.1–.41 36.21N–.02 141.46E–.03 38–3 4.7b,4.1s
NEIC III 26 10 42 26.1–.62 36.25N 141.43E 31–4 4.8b,4.1s
IDC III 26 10 42 27.1–1.6 36.15N 141.49E 45–15 4.6,4.5L
MOS III 26 10 42 27.5–.83 36.58N 141.29E 42 5.1b,4.5L
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=28.2.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.5km az=151.0.
IDC Error ellipse: s-maj=13.4km s-min=9.5km az=90.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=109.0.
(228) Near east coast of eastern Honshu
ISC III 26 10 54 32.8–1.2 36.54N–.05 140.97E–.07 10 3.8b 19 0-91
NIED III 26 10 54 00 36.60N 141.00E 8 3.8W ¶602694840
JMA III 26 10 54 31.5 36.56N 141.01E 25–1 4.0
IDC III 26 10 54 32.2–.75 36.01N 140.84E 0 3.8,3.7
ISCJB III 26 10 54 34.5–.64 36.60N–.04 140.85E–.05 10 3.7b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ52.00000°,λ-138.00000°. NP2:ϕ_s193.00000°,δ59.00000°,λ-47.00000°. $M_0$5.23000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
(226) Near west coast of eastern Honshu
ISC III 26 12 36 04.7–1.0 37.64N–.04 138.30E–.04 24–9 3.6b 21 0-57
NIED III 26 12 36 00 37.70N 138.30E 29 3.6W ¶17198640
IDC III 26 12 36 02.1–1.2 37.64N 138.38E 0 3.7,3.5
JMA III 26 12 36 04.8 37.66N 138.27E 25–1 3.9,3.5
ISCJB III 26 12 36 04.3–.47 37.66N–.04 138.28E–.04 31–4 3.6b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ28.00000°,λ140.00000°. NP2:ϕ_s141.00000°,δ72.00000°,λ68.00000°. $M_0$2.39000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s138.00000°,δ71.00000°,λ83.00000°. NP2:ϕ_s338.00000°,δ20.00000°,λ109.00000°. Principal axes: T Plg63.0000°,Azm37.0000°; N Plg6.0000°,Azm140.0000°; P Plg26.0000° ,Azm233.0000°
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 26 12 40 27.2–1.0 36.79N–.03 140.39E–.04 10–9 3.6b 22 0-60
IDC III 26 12 40 25.4–1.4 36.82N 140.46E 0 3.6,3.6b ¶17198641
ISCJB III 26 12 40 26.9–.51 36.77N–.03 140.46E–.05 20–5 3.5b,3.6b
JMA III 26 12 40 27.2–.10 36.80N 140.42E 3–2 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=16.6km az=9.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=179.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s135.00000°,δ87.00000°,λ-90.00000°. NP2:ϕ_s315.00000°,δ3.00000°,λ-90.00000°. Principal axes: T Plg42.0000°,Azm225.0000°; N Plg0.0000°,Azm135.0000°; P Plg48.0000° ,Azm45.0000°
(227) Eastern Honshu
ISC III 26 13 33 04.5–.86 37.07N–.03 140.76E–.04 7–5 3.6b 33 0-91
NIED III 26 13 33 00 37.10N 140.80E 5 3.8W ¶602443901
ISCJB III 26 13 33 03.6–.59 37.08N–.03 140.82E–.05 11–3 3.6b
IDC III 26 13 33 03.4–.72 37.04N 140.72E 0 3.9,3.8
JMA III 26 13 33 04.3 37.08N 140.77E 9–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ11.00000°,λ-98.00000°. NP2:ϕ_s229.00000°,δ79.00000°,λ-88.00000°. $M_0$6.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=17.1.
IDC Error ellipse: s-maj=18.1km s-min=12.3km az=154.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s236.00000°,δ77.00000°,λ-70.00000°. NP2:ϕ_s358.00000°,δ24.00000°,λ-145.00000°. Principal axes: T Plg29.0000°,Azm310.0000°; N Plg19.0000°,Azm51.0000°; P Plg54.0000° ,Azm170.0000°
(160) Off east coast of North Island
WEL III 26 13 40 16.6–.11 38.22S 178.16E 19–1 3.7L ¶16362934
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Gisborne region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC III 26 14 04 39.4–1.0 36.79N–.03 140.58E–.05 9–6 3.7b 32 0-91
NIED III 26 14 04 00 36.80N 140.60E 8 3.7W ¶600567761
IDC III 26 14 04 37.9–.66 36.74N 140.53E 0 3.9,3.8
ISCJB III 26 14 04 38.8–.56 36.77N–.03 140.61E–.06 16–4 3.7s,3.6b
JMA III 26 14 04 39.3 36.80N 140.56E 6–1 4.0,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ28.00000°,λ-133.00000°. NP2:ϕ_s185.00000°,δ70.00000°,λ-70.00000°. $M_0$3.97000×10^{14}
IDC Error ellipse: s-maj=15.6km s-min=12.1km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=12.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s177.00000°,δ52.00000°,λ-74.00000°. NP2:ϕ_s332.00000°,δ41.00000°,λ-110.00000°. Principal axes: T Plg6.0000°,Azm256.0000°; N Plg13.0000°,Azm347.0000°; P Plg76.0000° ,Azm142.0000°
(228) Near east coast of eastern Honshu
ISC III 26 14 10 59.4–.96 36.75N–.04 140.51E–.05 9–6 4.3b 50 0-91
NIED III 26 14 10 00 36.70N 140.70E 5 4.0W ¶602443905
IDC III 26 14 10 57.9–.56 36.71N 140.60E 0 4.3,4.2
ISCJB III 26 14 10 59.0–.51 36.72N–.04 140.57E–.06 19–3 4.2b,3.0s
JMA III 26 14 10 59.6 36.73N 140.65E 7–1 4.3,3.0s
NEIC III 26 14 11 04.2–1.2 36.74N 140.42E 46–10 4.5b,3.0s

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ38.00000°,λ-85.00000°. NP2:ϕ_s153.00000°,δ52.00000°,λ-94.00000°. $M_0$1.20000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=11.0km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.6km az=33.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ49.00000°,λ-90.00000°. NP2:ϕ_s156.00000°,δ41.00000°,λ-90.00000°. Principal axes: T Plg4.0000°,Azm66.0000°; N Plg0.0000°,Azm156.0000°; P Plg86.0000°,Azm246.0000°
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=8.7km az=103.0. Recorded [4 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 14 15 10.7–1.1**	**36.93N–.04**	**141.13E–.07**	**45–9**	**3.9b**	**40**	**0-147**	
NIED	III	26 14 15 00	36.90N	141.10E	56	4.1W			**¶17198644**
ISCJB	III	26 14 15 09.9–.64	36.90N–.04	141.13E–.07	56–5	3.8b,3.5s			
JMA	III	26 14 15 11.3–.10	36.95N	141.08E	49–1	3.8,3.5s			
IDC	III	26 14 15 11.5–2.0	36.91N	140.98E	52–20	3.8,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ22.00000°,λ107.00000°. NP2:ϕ_s33.00000°,δ69.00000°,λ83.00000°. $M_0$1.61000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.7km az=13.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=11.5km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 14 19 07.0–.92**	**36.75N–.03**	**140.52E–.04**	**10–6**	**4.0b**	**43**	**0-91**	
NIED	III	26 14 19 00	36.70N	140.70E	5	3.8W			**¶16459600**
ISCJB	III	26 14 19 06.1–.67	36.70N–.03	140.73E–.05	19–4	4.0b,2.7s			
JMA	III	26 14 19 07.1	36.73N	140.65E	7–1	4.1,2.7s			
IDC	III	26 14 19 11.3–1.9	36.67N	140.47E	44–18	3.9,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ40.00000°,λ-102.00000°. NP2:ϕ_s168.00000°,δ51.00000°,λ-80.00000°. $M_0$6.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=24.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s312.00000°,δ56.00000°,λ-102.00000°. NP2:ϕ_s152.00000°,δ36.00000°,λ-73.00000°. Principal axes: T Plg10.0000°,Azm50.0000°; N Plg10.0000°,Azm318.0000°; P Plg76.0000°,Azm185.0000°
IDC Error ellipse: s-maj=18.2km s-min=11.0km az=73.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 15 01 51.0–1.1**	**36.97N–.04**	**141.13E–.08**	**47–9**	**3.7b**	**35**	**0-90**	
NIED	III	26 15 01 00	37.00N	141.10E	56	3.9W			**¶17198650**
ISCJB	III	26 15 01 50.0–.67	36.94N–.04	141.16E–.07	55–5	3.7b			
JMA	III	26 15 01 51.3–.10	36.95N	141.07E	51–1	3.9			
IDC	III	26 15 01 52.6–2.1	36.93N	140.93E	63–21	3.9,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ21.00000°,λ75.00000°. NP2:ϕ_s27.00000°,δ70.00000°,λ95.00000°. $M_0$6.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.0km az=18.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.5km s-min=13.2km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 16 06 50.4–.77**	**36.38N–.04**	**141.17E–.04**	**31–4**	**4.5b,3.7s**	**142**	**1-147**	
NIED	III	26 16 06 00	36.40N	141.10E	29	4.4W,3.7s			**¶602694139**
IDC	III	26 16 06 45.8–.50	36.37N	141.17E	0	4.6L,4.3			
NEIC	III	26 16 06 48.4–3.3	36.36N	141.03E	17–20	4.7b,4.3			
ISCJB	III	26 16 06 49.0–.53	36.33N–.03	141.19E–.04	33–4	4.5b,3.8s			
BJI	III	26 16 06 49.7	36.17N	141.15E	42	5.0b,4.5b			
JMA	III	26 16 06 50.5–.10	36.42N	141.12E	46–2	4.4,4.5b			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ32.00000°,λ-6.00000°. NP2:ϕ_s308.00000°,δ87.00000°,λ-122.00000°. $M_0$4.21000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.8km az=123.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.9km az=30.1.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 16 20 06.1–1.1**	**39.83N–.04**	**142.22E–.09**	**49–8**	**4.1b,3.8s**	**43**	**0-88**	
NIED	III	26 16 20 00	39.90N	142.20E	47	4.3W,3.8s			**¶17198657**
ISCJB	III	26 16 20 05.4–.72	39.85N–.04	142.22E–.09	56–4	3.9b,3.8s			
JMA	III	26 16 20 06.7–.10	39.87N	142.17E	47–1	4.0,3.8s			
IDC	III	26 16 20 08.1–2.2	39.77N	142.12E	68–20	4.0,3.9			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ12.00000°,λ77.00000°. NP2:ϕ_s12.00000°,δ78.00000°,λ93.00000°. $M_0$3.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.5km az=178.1.
JMA Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=11.9km az=89.0.

(229) Off east coast of Honshu

ISC	**III**	**26 16 22 37.9–2.8**	**37.70N–.05**	**142.44E–.06**	**32–19**	**4.4b**	**87**	**1-146**	
NIED	III	26 16 22 00	37.70N	142.40E	8	4.3W			**¶602694115**
BJI	III	26 16 22 32.6	37.64N	142.80E	27	5.0b,4.7b			
JMA	III	26 16 22 35.6–.20	37.71N	142.42E	25–4	4.6,4.7b			
ISCJB	III	26 16 22 36.2–1.4	37.71N–.04	142.47E–.05	32–10	4.4b,4.0s			
IDC	III	26 16 22 39.1–2.4	37.69N	142.42E	40–21	4.3,4.2			
NEIC	III	26 16 22 39.6–1.2	37.69N	142.41E	48–10	4.7b,4.2			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ36.00000°,λ-28.00000°. NP2:ϕ_s10.00000°,δ74.00000°,λ-122.00000°. $M_0$3.33000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.9km az=163.8.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=107.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.4km az=121.0.

(372) Cyprus region

ISC	**III**	**26 16 25 16.0–.77**	**34.46N–.03**	**32.13E–.02**	**31–5**	**4.2b**	**567**	**0-81**	
BJI	III	26 16 25 09.9	33.95N	31.77E	30	4.8b,4.6s			**¶16455737**
ISK	III	26 16 25 13.1	34.37N	32.11E	12	4.2L,4.6s			
NSSC	III	26 16 25 14.3–.40	34.49N	32.30E	0–6	3.8L,4.6s			
NIC	III	26 16 25 15.9–.10	34.35N	32.06E	31	4.2b,4.0L			
DDA	III	26 16 25 15.0	34.70N	32.18E	5	4.2b,4.0L			
GII	III	26 16 25 15.4–.00	34.40N	32.29E	9	4.3b,4.1			
ISCJB	III	26 16 25 15.5–.17	34.41N–.01	32.14E–.01	43–2	4.2b,3.7s			
CSEM	III	26 16 25 16.0–.08	34.40N	32.15E	20	4.3W,4.0L			
IDC	III	26 16 25 17.1–1.9	34.51N	32.17E	36–16	4.3L,4.2			
HLW	III	26 16 25 17.9	34.21N	32.20E	10–13	4.0L,3.8			
GRAL	III	26 16 25 19.9–.84	34.34N	32.68E	0–35	4.3,3.8			
NEIC	III	26 16 25 19.9	34.58N	32.32E	31	4.2b,4.0L			

ISC Event type fe.
NSSC Error ellipse: s-maj=1.4km s-min=11.8km az=-1.0.
NIC Event type fe. Felt I=III MM at Pafos and Limasol.
GII Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=49.0.
IDC Error ellipse: s-maj=11.8km s-min=10.5km az=13.0.
GRAL Error ellipse: s-maj=20.8km s-min=36.2km az=-1.0.
NEIC Event type fe. Felt [II] at Limassol and Paphos. Also felt at Koloni, Pakhna, Peyia, Pissouri and Polis. Felt [II] at Cairo, Egypt. Also felt at Alexandria and Al Jizah. After NIC.

(229) Off east coast of Honshu

ISC	**III**	**26 16 28 36.9–.68**	**37.64N–.07**	**142.39E–.07**	**21**	**4.0b**	**36**	**1-146**	
NIED	III	26 16 28 00	37.70N	142.40E	14	3.9W			**¶16459602**
IDC	III	26 16 28 33.9–.71	37.64N	142.36E	0	4.0,3.9			
JMA	III	26 16 28 35.8–.30	37.69N	142.42E	16–3	3.9,3.9			
ISCJB	III	26 16 28 35.0–.56	37.62N–.05	142.49E–.06	21	3.9b,3.9			
NEIC	III	26 16 28 40.0–1.9	37.66N	142.32E	44–15	4.7b,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ37.00000°,λ-41.00000°. NP2:ϕ_s17.00000°,δ67.00000°,λ-120.00000°. $M_0$7.59000×10^{14}
IDC Error ellipse: s-maj=19.6km s-min=14.9km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.3km az=135.6.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=12.2km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 17 15 49.4–.85**	**36.70N–.05**	**141.60E–.08**	**22–6**	**3.5b**	**34**	**1-75**	
NIED	III	26 17 15 00	36.70N	141.50E	41	3.8W			**¶17198662**
JMA	III	26 17 15 50.9–.10	36.69N	141.45E	51–2	3.9			
IDC	III	26 17 15 52.5–2.4	36.67N	141.52E	48–25	3.6,3.6L			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ10.00000°,λ-175.00000°. NP2:ϕ_s148.00000°,δ89.00000°,λ-80.00000°. $M_0$6.17000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=16.2km az=88.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 17 30 50.7–1.8**	**36.56N–.05**	**141.35E–.08**	**26–12**	**3.8b**	**31**	**1-147**	
NIED	III	26 17 30 00	36.60N	141.20E	29	3.7W			**¶17198664**
ISCJB	III	26 17 30 50.9–1.0	36.53N–.05	141.35E–.08	42–8	3.8b			
JMA	III	26 17 30 52.2–.10	36.57N	141.20E	46–2	3.8			
IDC	III	26 17 30 53.8–2.7	36.47N	141.33E	54–24	3.8,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ9.00000°,λ-61.00000°. NP2:ϕ_s227.00000°,δ82.00000°,λ-94.00000°. $M_0$4.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.9km az=14.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=13.7km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 17 32 15.5–.36**	**35.68N–.04**	**141.11E–.04**	**33**	**4.5b,3.7s**	**170**	**0-149**	
NIED	III	26 17 32 00	35.80N	141.10E	53	4.5W,3.7s			**¶16362937**
BJI	III	26 17 32 13.3	35.53N	141.19E	43	5.0b,4.6b			
ISCJB	III	26 17 32 14.0–.22	35.66N–.03	141.09E–.04	33	4.5b,3.8s			
JMA	III	26 17 32 16.0–.20	35.76N	141.06E	36–1	4.4,3.8s			
NEIC	III	26 17 32 17.7–.58	35.67N	140.96E	51–5	4.7b,3.8s			
IDC	III	26 17 32 18.0–1.6	35.70N	140.99E	52–15	4.3,4.1			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ8.00000°,λ161.00000°. NP2:ϕ_s347.00000°,δ87.00000°,λ82.00000°. $M_0$6.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=137.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.3km az=121.0.
IDC Error ellipse: s-maj=12.9km s-min=9.0km az=88.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 17 59 33.2–1.4**	**37.32N–.04**	**141.66E–.08**	**43–12**	**3.5b**	**45**	**1-90**	
ISCJB	III	26 17 59 32.7–.78	37.30N–.03	141.61E–.08	54–6	3.6b			**¶17198666**
JMA	III	26 17 59 33.9–.10	37.35N	141.55E	46–2	4.0			
IDC	III	26 17 59 34.8–2.4	37.39N	141.54E	54–22	3.7,3.6			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.3km az=13.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=14.4km az=102.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 18 11 01.1–2.1**	**38.32N–.05**	**142.02E–.07**	**9–12**	**3.5b**	**26**	**1-89**	
IDC	III	26 18 10 59.7–.75	38.25N	142.05E	0	3.7,3.6L			**¶17198668**
NIED	III	26 18 11 00	38.30N	142.00E	11	3.7W,3.6L			
ISCJB	III	26 18 11 00.3–1.7	38.27N–.04	142.11E–.09	16–11	3.5b,3.4s			
JMA	III	26 18 11 02.7–.10	38.34N	141.99E	25–1	3.8,3.4s			

ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=15.1km az=114.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s296.00000°,δ40.00000°,λ-130.00000°. NP2:ϕ_s164.00000°,δ60.00000°,λ-61.00000°. $M_0$4.64000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=6.1km az=21.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(159) North Island

WEL	**III**	**26 18 11 46.0–.06**	**39.52S**	**175.68E**	**5**	**3.5L**			**¶16362938**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from King Country to Hawke"s Bay, maximum reported intensity MM 4.

(460) Wyoming

ISC	**III**	**26 18 36 53.2–.63**	**43.71N–.03**	**105.30W–.04**	**0**	**3.7b**	**75**	**1-90**	
ISCJB	III	26 18 36 53.5–.24	43.69N–.02	105.37W–.02	0	3.8b,3.2s			**¶17198672**
NEIC	III	26 18 36 54.0–.30	43.77N	105.25W	0	3.2L,3.2s			
IDC	III	26 18 36 54.4–.75	44.01N	105.77W	0	3.8b,3.7			

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.5km s-min=2.3km az=155.1.
NEIC Event type fm. Error ellipse: s-maj=4.9km s-min=4.3km az=158.0. 61 km [38 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=21.2km s-min=7.7km az=145.0.

(236) Shikoku

ISC	**III**	**26 18 38 32.0–1.0**	**33.58N–.04**	**132.59E–.04**	**40–8**		**22**	**0-68**	
NIED	III	26 18 38 00	33.60N	132.60E	41	3.6W			**¶17198674**
IDC	III	26 18 38 24.7–3.5	33.66N	132.92E	0	3.6b,3.5			
JMA	III	26 18 38 31.9	33.59N	132.55E	42	3.6,3.5			
ISCJB	III	26 18 38 31.5–.55	33.59N–.04	132.56E–.05	48–5	3.5b,3.5			

ISC Event type ke.
NIED Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s106.00000°,δ46.00000°,λ-122.00000°. NP2:ϕ_s328.00000°,δ52.00000°,λ-61.00000°. $M_0$2.89000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s90.00000°,δ57.00000°,λ-123.00000°. NP2:ϕ_s320.00000°,δ45.00000°,λ-50.00000°. Principal axes: T Plg7.0000°,Azm203.0000°; N Plg27.0000°,Azm109.0000°; P Plg62.0000°,Azm306.0000°
ISCJB Event type fe.

(227) Eastern Honshu

ISC	**III**	**26 18 49 49.1–.88**	**37.13N–.03**	**140.84E–.04**	**8–5**	**4.0b**	**59**	**0-90**	
NIED	III	26 18 49 00	37.10N	140.90E	5	3.8W			**¶16481061**
IDC	III	26 18 49 48.0–.71	37.13N	140.80E	0	4.1,3.9			
ISCJB	III	26 18 49 47.5–.73	37.15N–.03	140.97E–.04	7–4	4.0b,2.9s			
JMA	III	26 18 49 49.0	37.14N	140.86E	6–1	3.7,2.9s			
NEIC	III	26 18 49 54.0–.77	37.12N	140.77E	44–7	4.4b,2.9s			

ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s24.00000°,δ32.00000°,λ-105.00000°. NP2:ϕ_s222.00000°,δ59.00000°,λ-81.00000°. $M_0$5.34000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=17.6km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=32.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.8km az=139.0.

(246) Southwestern Ryukyu Islands

ISC	**III**	**26 19 21 16.9–1.0**	**25.0N–.10**	**125.58E–.08**	**43–8**	**3.9b**	**37**	**0-76**	
ISCJB	III	26 19 21 16.0–.57	25.0N–.10	125.59E–.08	50–6	3.7b			**¶17198678**
JMA	III	26 19 21 16.0–.10	24.90N	125.64E	50–1	3.6			
IDC	III	26 19 21 16.8–1.8	26.02N	125.41E	0	3.9,3.8			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=24.0km s-min=4.4km az=152.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=98.9km s-min=24.2km az=65.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 19 22 04.2–.60**	**36.72N–.04**	**141.71E–.04**	**34–1**	**4.7b,3.9s**	**355**	**1-147**	
IDC	III	26 19 21 58.9–.48	36.70N	141.66E	0	4.5,4.4			**¶600568085**
NIED	III	26 19 22 00	36.70N	141.90E	35	4.7W,4.4			
ISCJB	III	26 19 22 01.8–.84	36.69N–.02	141.77E–.03	29–5	4.7b,4.0s			
BJI	III	26 19 22 01.6	36.74N	141.82E	39	4.9b,4.8b			
JMA	III	26 19 22 01.6–.30	36.73N	141.86E	40	4.5,4.8b			
MOS	III	26 19 22 04.6–.75	37.03N	141.57E	35	5.0b,4.8b			
NEIC	III	26 19 22 05.5–.63	36.73N	141.64E	44–5	4.7b,4.8b			

ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=10.9km az=103.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s216.00000°,δ23.00000°,λ106.00000°. NP2:ϕ_s19.00000°,δ68.00000°,λ83.00000°. $M_0$1.07000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=36.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=109.1.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 19 52 53.6–.86**	**36.05N–.06**	**140.28E–.09**	**50**	**3.5b**	**15**	**0-87**	
NIED	III	26 19 52 00	36.00N	140.30E	68	3.7W			**¶17198679**
IDC	III	26 19 52 47.7–1.0	36.02N	140.30E	0	3.8,3.6			

ISCJB III 26 19 52 52.0–.68 36.01N–.05 140.30E–.10 50 3.9s,3.6b
JMA III 26 19 52 52.4–.10 36.00N 140.29E 41–1 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ10.00000°,λ-114.00000°. NP2:ϕ_s244.00000°,δ81.00000°,λ-86.00000°. M_o3.71000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=16.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.9km az=165.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s54.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s226.00000°,δ14.00000°,λ83.00000°. Principal axes: T Plg59.0000°,Azm326.0000°; N Plg2.0000°,Azm233.0000°; P Plg31.0000°,Azm142.0000°

(45) California-Baja California border region

ISC	**III**	**26 20 01 34.5–.88**	**32.30N–.02**	**115.37W–.02**	**16–7**		**129**	**0-7**
ISCJB	III	26 20 01 34.9–.32	32.29N–.02	115.32W–.02	17–3			**¶16633233**
ECX	III	26 20 01 36.4–.58	32.30N	115.38W	5	3.6L,3.4		
NEIC	III	26 20 01 36.4	32.30N	115.38W	5	3.6L,3.5L		
MEX	III	26 20 01 37.3–.82	32.38N	115.29W	15	3.7,3.5L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=5.3.
ECX Error ellipse: s-maj=1.3km s-min=1.5km az=-1.0.
NEIC Event type fe. Felt [III] at Mexicali. Felt at Calexico and El Centro, California. After ECX.
MEX Error ellipse: s-maj=3.1km s-min=2.8km az=-1.0.

(288) Savu Sea

ISC	**III**	**26 20 19 51.3–.61**	**9.35S–.03**	**121.91E–.04**	**76–6**	**4.5b**	**95**	**1-153**
BJI	III	26 20 19 48.3	9.40S	121.80E	66	4.9b,4.9s		**¶16480939**
ISCJB	III	26 20 19 49.9–.37	9.37S–.03	121.91E–.03	87–4	4.4b,4.9s		
NEIC	III	26 20 19 50.4–.63	9.33S	121.81E	67–7	4.4b,4.9s		
IDC	III	26 20 19 52.3–1.2	9.28S	121.93E	81–11	4.4,4.2		
DJA	III	26 20 19 53.4–.50	9S–2.0	122E–2.0	39–7	4.7b,4.6		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Ende, Indonesia.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 20 23 27.6–1.6**	**37.44N–.04**	**141.46E–.06**	**13–9**	**3.9b**	**37**	**1-68**
NIED	III	26 20 23 00	37.40N	141.30E	14	3.5W		**¶16481067**
IDC	III	26 20 23 25.6–1.2	37.55N	141.50E	0	3.9,3.9		
JMA	III	26 20 23 29.7–.10	37.43N	141.32E	26–1	3.8,3.9		
NEIC	III	26 20 23 31.4–1.0	37.47N	141.39E	36–9	4.1b,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ5.00000°,λ-116.00000°. NP2:ϕ_s226.00000°,δ86.00000°,λ-88.00000°. M_o1.96000×10^{14}
IDC Error ellipse: s-maj=33.2km s-min=21.7km az=93.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.7km az=110.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 20 27 47.4–1.9**	**37.43N–.04**	**141.63E–.08**	**24–13**		**25**	**1-57**
IDC	III	26 20 27 43.2–2.8	37.45N	141.84E	0	3.6,3.6L		**¶17198681**
ISCJB	III	26 20 27 46.6–1.2	37.41N–.03	141.66E–.07	26–6	3.2b,3.6L		
JMA	III	26 20 27 48.9–.10	37.44N	141.53E	41–2	4.0,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=29.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=10.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**26 20 30 18.9–.10**	**36.48N**	**140.50E**	**56–1**	**3.5**		
NIED	III	26 20 30 00	36.50N	140.50E	65	3.5W		**¶600568151**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s304.00000°,δ79.00000°,λ70.00000°. NP2: ϕ_s186.00000°,δ23.00000°,λ150.00000°. Principal axes: T Plg52.0000°,Azm191.0000°; N Plg19.0000°,Azm308.0000°; P Plg31.0000°,Azm50.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ10.00000°,λ48.00000°. NP2:ϕ_s313.00000°,δ83.00000°,λ97.00000°. M_o1.83000×10^{14}

(227) Eastern Honshu

ISC	**III**	**26 20 36 02.0–.78**	**37.11N–.03**	**140.78E–.05**	**8–5**	**4.0b**	**75**	**0-90**
NIED	III	26 20 36 00	37.10N	140.90E	5	3.9W		**¶602693736**
IDC	III	26 20 36 00.8–.62	37.12N	140.85E	0	4.1,4.0		
ISCJB	III	26 20 36 02.1–.69	37.11N–.03	140.89E–.05	19–4	4.0b,3.8s		
JMA	III	26 20 36 02.1	37.13N	140.85E	6–1	4.0,3.8s		
NEIC	III	26 20 36 06.5–.87	37.18N	140.85E	37–7	4.5b,3.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ18.00000°,λ-124.00000°. NP2:ϕ_s243.00000°,δ75.00000°,λ-80.00000°. M_o9.42000×10^{14}
IDC Error ellipse: s-maj=17.4km s-min=14.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=23.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s216.00000°,δ70.00000°,λ-94.00000°. NP2:ϕ_s47.00000°,δ20.00000°,λ-80.00000°. Principal axes: T Plg25.0000°,Azm309.0000°; N Plg3.0000°,Azm217.0000°; P Plg65.0000°,Azm120.0000°
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.5km az=145.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 21 01 40.0–1.6**	**36.83N–.06**	**141.05E–.10**	**30–9**	**3.4b**	**18**	**0-61**
IDC	III	26 21 01 33.9–2.5	37.03N	141.60E	0	3.5,3.3		**¶17198685**
JMA	III	26 21 01 39.0–.10	36.84N	141.14E	33–1	3.4,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=67.0km s-min=25.4km az=58.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 22 47 42.7–2.9**	**37.37N–.08**	**141.7E–.10**	**28–14**		**14**	**1-44**
IDC	III	26 22 47 36.4–13	37.74N	142.03E	0	3.4b,3.3		**¶602694286**
JMA	III	26 22 47 45.1–.10	37.39N	141.52E	26–2	3.5,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=225.4km s-min=58.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(181) Fiji Islands region

ISC	**III**	**26 22 49 43.3–.45**	**15.92S–.04**	**179.23W–.04**	**22–3**	**5.9s,5.7b**	**1150**	**3-177**
IDC	III	26 22 49 39.1–.40	15.85S	179.37W	0	5.8,5.8s		**¶16459605**
NEIC	III	26 22 49 40.8–.12	15.85S	179.41W	6	6.7,6.0W		
GCMT	III	26 22 49 41.5–.10	15.79S	179.26W	12–0	6.0W,6.0W		
BJI	III	26 22 49 42.0	15.26S	179.17W	13	6.0b,5.9s		
NEIC	III	26 22 49 42.0–.00	15.79S	179.29W	15	6.0b,5.9s		
ISCJB	III	26 22 49 43.6–.09	15.91S–.03	179.38W–.02	33	5.9s,5.6b		
MOS	III	26 22 49 44.4–1.3	15.75S	179.49W	33	5.8b,5.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=13.9km s-min=11.2km az=141.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=138.0. Felt [VI] at Lambasa, [V] at Suva and [IV] at Savusavu. Also felt at Nambouwalu, Nausori and Seangangga. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o3.20000×10^{18} Moment Tensor Solution. s55 Moment tensor: Scale 10^{18}Nm; M_{rr}0.16 $M_{\theta\theta}$-1.08 $M_{\phi\phi}$0.92 $M_{r\theta}$0.11 $M_{\theta\phi}$0.54 $M_{\phi r}$0.17 Best double couple: NP1: ϕ_s60.00000°,δ84.00000°,λ10.00000°. NP2:ϕ_s329.00000°,δ80.00000°,λ174.00000°. Principal axes: T 1.0900,Plg11.0000°,Azm284.0000°; N 0.1300,Plg78.0000°,Azm91.0000°; P -1.2200,Plg3.0000°,Azm194.0000° M_o1.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s60.00000°,δ85.00000°,λ-3.00000°. NP2: ϕ_s150.00000°,δ87.00000°,λ-175.00000°. Principal axes: T Plg1.0000°,Azm285.0000°; N Plg0.0000°,Azm0.0000°; P Plg6.0000°,Azm15.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c282; s130,c495;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.12±.01 $M_{\theta\theta}$-1.25±.01; $M_{\phi\phi}$1.14±.01; $M_{r\theta}$-0.20±.02; $M_{\theta\phi}$0.78±.01; $M_{\phi r}$0.01±.02; Best double couple: NP1:ϕ_s61.00000°,δ87.00000°,λ-6.00000°. NP2:ϕ_s152.00000°,δ84.00000°,λ-177.00000°. Principal axes: T 1.3710,Plg2.0000°,Azm107.0000°; N 0.1390,Plg83.0000°,Azm213.0000°; P -1.5030,Plg7.0000°,Azm16.0000° M_o1.43700×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ80.00000°,λ27.00000°. NP2:ϕ_s155.00000°,δ64.00000°,λ169.00000°. Principal axes: T 1.3600,Plg25.0000°,Azm115.0000°; N -0.1000,Plg61.0000°,Azm268.0000°; P -1.2600,Plg11.0000°,Azm19.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=150.2.
MOS Error ellipse: s-maj=7.9km s-min=6.4km az=62.8.

(228) Near east coast of eastern Honshu

ISC	**III**	**26 23 32 12.3–2.4**	**37.26N–.07**	**141.6E–.10**	**29–12**		**19**	**1-44**
IDC	III	26 23 31 55.8–10	36.42N	143.02E	0	3.3,3.3b		**¶17198695**
ISCJB	III	26 23 32 13.2–1.5	37.24N–.05	141.5E–.10	46–11	3.1b,3.3b		
JMA	III	26 23 32 14.8–.10	37.27N	141.38E	47–1	3.1,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=171.6km s-min=82.8km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=7.1km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 00 35 41.8–.71**	**36.27N–.05**	**141.31E–.06**	**26**	**3.7b**	**25**	**1-91**
NIED	III	27 00 35 00	36.30N	141.30E	35	4.0W		**¶16481104**
IDC	III	27 00 35 40.0–.83	36.81N	141.25E	0	3.9,3.8		
ISCJB	III	27 00 35 40.4–.57	36.29N–.05	141.38E–.05	26	3.7b,3.8		
JMA	III	27 00 35 42.1–.10	36.25N	141.27E	44–2	3.6,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ43.00000°,λ132.00000°. NP2:ϕ_s15.00000°,δ59.00000°,λ59.00000°. M_o1.25000×10^{15}
IDC Error ellipse: s-maj=23.9km s-min=18.6km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.8km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 01 16 58.3–.10**	**38.34N**	**142.09E**	**36–1**	**3.8**		
								¶602698000

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(277) Jawa

ISC	**III**	**27 03 08 10.4–.50**	**8.68S–.08**	**110.88E–.04**	**69**	**4.2b**	**66**	**1-142**
IDC	III	27 03 08 01.7–.77	8.54S	110.70E	0	4.1,4.1L		**¶16481126**
ISCJB	III	27 03 08 08.9–.36	8.80S–.06	110.85E–.03	69	4.0b,4.1L		
DJA	III	27 03 08 10.4–.70	9S–6.0	111E–2.0	24–7	5.2b,4.9b		
NEIC	III	27 03 08 11.2–.85	8.71S	110.87E	80–7	4.4b,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=14.3km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=3.6km az=17.7.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=6.4km az=219.0. Felt [II] at Tulungagung.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 03 20 14.6–.30**	**37.32N**	**141.99E**	**26**	**3.9**		
								¶602697739

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 03 20 18.3–.57**	**40.24N–.03**	**142.43E–.03**	**44–4**	**5.1b,4.6s**	**586**	**1-154**
NIED	III	27 03 20 00	40.20N	142.40E	41	5.0W,4.6s		**¶602443923**
BJI	III	27 03 20 12.2	40.05N	142.76E	36	5.0b,5.0b		
JMA	III	27 03 20 17.5–.10	40.15N	142.42E	36–1	5.0,5.0b		
ISCJB	III	27 03 20 17.4–.34	40.22N–.02	142.29E–.03	45–3	5.1b,4.5s		
NEIC	III	27 03 20 17.9–.63	40.18N	142.26E	38–5	5.1b,4.5s		
MOS	III	27 03 20 17.4–.83	40.34N	142.26E	42	5.4b,4.6s		
GCMT	III	27 03 20 17.9–.20	40.27N	142.63E	48–1	5.0W,4.6s		
IDC	III	27 03 20 19.6–2.1	40.15N	142.36E	57–19	4.8,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ14.00000°,λ88.00000°. NP2:ϕ_s21.00000°,δ76.00000°,λ90.00000°. M_o3.65000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=146.6.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=148.0. Recorded [3 JMA] in Iwate.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=103.7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c74; s87,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.57±.17 $M_{\theta\theta}$0.13±.11; $M_{\phi\phi}$-3.70±.11; $M_{r\theta}$1.29±.09; $M_{\theta\phi}$-0.64±.09; $M_{\phi r}$2.43±.10; Best double couple: NP1:ϕ_s20.00000°,δ64.00000°,λ101.00000°. NP2:ϕ_s178.00000°,δ28.00000°,λ70.00000°. Principal axes: T 4.5620,Plg70.0000°,Azm312.0000°; N 0.0830,Plg10.0000°,Azm196.0000°; P -4.6460,Plg18.0000°,Azm103.0000° M_o4.60400×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=11.1km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 03 37 49.4–1.4**	**36.57N–.04**	**141.15E–.08**	**42–12**	**3.7b**	**35**	**0-75**
NIED	III	27 03 37 00	36.60N	141.00E	53	3.8W		**¶17198720**
ISCJB	III	27 03 37 48.2–.80	36.54N–.04	141.17E–.08	51–6	3.7b		
JMA	III	27 03 37 50.3–.10	36.61N	141.02E	48–1	4.0		
IDC	III	27 03 37 53.2–2.1	36.41N	140.88E	80–19	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ44.00000°,λ-26.00000°. NP2:ϕ_s249.00000°,δ72.00000°,λ-130.00000°. M_o5.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.0km az=13.9.
JMA Event type fe.
IDC Error ellipse: s-maj=23.7km s-min=11.8km az=79.0.

(224) Hokkaido region

ISC	**III**	**27 03 46 30.6–.78**	**42.96N–.05**	**145.48E–.04**	**40–6**	**4.2b**	**77**	**0-84**
NIED	III	27 03 46 00	43.00N	145.50E	44	3.9W		**¶16459611**
IDC	III	27 03 46 25.2–.85	43.01N	145.51E	0	4.2,4.0		
MOS	III	27 03 46 28.9–.79	42.88N	145.40E	44	4.4b,4.0		
ISCJB	III	27 03 46 29.7–.56	42.91N–.05	145.50E–.06	52–4	4.1b,4.0		
JMA	III	27 03 46 30.6–.10	42.93N	145.49E	45–1	3.8,4.0		
SKHL	III	27 03 46 31.3–.40	42.91N	145.60E	68–4	4.3b,4.0		
NEIC	III	27 03 46 31.5–1.1	42.91N	145.48E	50–11	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ23.00000°,λ106.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ83.00000°. M_o9.38000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=16.2km az=155.0.
MOS Error ellipse: s-maj=14.6km s-min=9.0km az=76.4.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=139.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.0km az=163.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 04 52 28.9–.10**	**39.15N**	**142.41E**	**33–2**	**3.6**		
								¶602697548

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 04 54 02.1–2.0**	**39.14N–.05**	**142.34E–.09**	**24–12**	**3.8b**	**26**	**1-76**
NIED	III	27 04 54 00	39.10N	142.40E	38	3.8W		**¶17198729**
JMA	III	27 04 54 01.3–.10	39.09N	142.42E	31–2	3.8		
ISCJB	III	27 04 54 02.7–1.2	39.12N–.05	142.4E–.10	43–9	3.6b		
IDC	III	27 04 54 07.8–2.9	39.07N	142.21E	77–27	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ18.00000°,λ-164.00000°. NP2:ϕ_s184.00000°,δ85.00000°,λ-72.00000°. M_o6.22000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=7.1km az=18.6.
IDC Error ellipse: s-maj=33.2km s-min=18.3km az=159.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 05 07 52.4–.36**	**39.92N–.03**	**142.10E–.04**	**47–2**	**4.8b,4.4s**	**490**	**0-149**
NIED	III	27 05 07 00	39.90N	142.20E	53	5.0W,4.4s		**¶16362954**
BJI	III	27 05 07 49.7	39.77N	142.19E	51	5.0b,4.8b		
MOS	III	27 05 07 50.1–.96	39.85N	141.88E	40	5.1b,4.5s		
ISCJB	III	27 05 07 52.9–.27	39.94N–.03	141.91E–.03	57–2	4.8b,4.3s		
JMA	III	27 05 07 52.1–.10	39.89N	142.17E	48–1	4.8,4.3s		
IDC	III	27 05 07 54.8–1.8	39.86N	141.99E	69–15	4.5,4.3		
GCMT	III	27 05 07 56.0–.20	39.95N	142.18E	51–1	5.0W,4.3		
NEIC	III	27 05 07 56.0–.48	39.93N	141.85E	72–4	4.8b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ15.00000°,λ83.00000°. NP2:ϕ_s18.00000°,δ75.00000°,λ92.00000°. M_o3.37000×10^{16}
MOS Error ellipse: s-maj=7.7km s-min=4.2km az=106.5.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=147.7.
JMA Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=10.4km az=111.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c76; s87,c147; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.51±.15 $M_{\theta\theta}$-0.17±.11; $M_{\phi\phi}$-3.34±.11; $M_{r\theta}$1.12±.08; $M_{\theta\phi}$-0.59±.08; $M_{\phi r}$2.82±.10; Best double couple: NP1:ϕ_s18.00000°,δ66.00000°,λ96.00000°. NP2:ϕ_s183.00000°,δ25.00000°,λ77.00000°. Principal axes: T 4.6750,Plg69.0000°,Azm299.0000°; N -0.1240,Plg5.0000°,Azm195.0000°; P -4.5550,Plg20.0000°,Azm103.0000° M_o4.61500×10^{16}

NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=153.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 05 22 52.9–2.3**	**38.34N–.05**	**141.9E–.10**	**26–13**		**21**	**0-58**
JMA	III	27 05 22 55.5–.10	38.35N	141.75E	50–1	3.7		**¶602697517**
IDC	III	27 05 23 06.8–9.9	38.65N	140.20E	68–46	3.8,3.8s		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=153.8km s-min=38.7km az=81.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 05 32 35.1–.10**	**36.19N**	**141.00E**	**47–1**	**3.7**		
NIED	III	27 05 32 00	36.20N	141.00E	20	3.8W		**¶603145338**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ53.00000°,λ4.00000°. NP2:ϕ_s105.00000°,δ87.00000°,λ142.00000°. $M_0$6.16000×10^{14}

(229) Off east coast of Honshu

ISC	**III**	**27 06 00 32.7–.61**	**39.87N–.06**	**143.37E–.06**	**6**	**4.2b,3.4s**	**55**	**1-87**
ISCJB	III	27 06 00 30.8–.42	39.85N–.04	143.49E–.05	6	4.1b,3.4s		**¶16459613**
IDC	III	27 06 00 31.8–.65	39.83N	143.31E	0	4.2,4.0		
JMA	III	27 06 00 32.4–.30	39.88N	143.43E	13–3	4.2,4.0		
NEIC	III	27 06 00 37.8–.86	39.86N	143.29E	43–7	4.4b,4.0		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=141.4.
IDC Error ellipse: s-maj=16.8km s-min=14.2km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=108.0.

(69) Near coast of Chiapas

ISC	**III**	**27 06 20 56.0–.31**	**14.35N–.04**	**92.61W–.03**	**40–2**	**5.3s,5.3b**	**1285**	**1-159**
IDC	III	27 06 20 50.1–.45	14.45N	92.22W	0	5.3,5.2		**¶16362956**
CASC	III	27 06 20 54.3–1.2	14.43N	92.64W	20–456	5.7b,5.2		
GCMT	III	27 06 20 55.9–.10	14.34N	92.93W	29–0	5.7W,5.2		
MEX	III	27 06 20 55.0–.36	14.20N	92.74W	20–8	5.3,5.2		
NEIC	III	27 06 20 56.0–.17	14.37N	92.35W	35	5.7W,5.6W		
ISCJB	III	27 06 20 56.6–.15	14.47N–.02	92.39W–.02	54	5.3b,5.3s		
MOS	III	27 06 20 57.6–.98	14.63N	92.24W	55	5.4b,5.2s		
NEIC	III	27 06 20 57.0–.00	14.45N	92.35W	44	5.4b,5.2s		
BJI	III	27 06 20 58.1	14.40N	92.30W	53	5.6s,5.4		
NEIC	III	27 06 21 10.5–.00	14.25N	91.87W	32	5.6s,5.4		

ISC Event type fe.
IDC Error ellipse: s-maj=20.8km s-min=9.8km az=51.0.
CASC Error ellipse: s-maj=94.8km s-min=279.1km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c230; s120,c324;Duration: 1s^7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.76±.04 $M_{\theta\theta}$-2.99±.03; $M_{\phi\phi}$-0.77±.04; $M_{r\theta}$1.79±.06; $M_{\theta\phi}$1.55±.03; $M_{\phi r}$-1.62±.07; Best double couple: NP1: ϕ_s125.00000°,δ61.00000°,λ98.00000°. NP2:ϕ_s289.00000°,δ30.00000°,λ76.00000°. Principal axes: T 4.5030,Plg73.0000°,Azm53.0000°; N -0.0490,Plg7.0000°,Azm301.0000° ; P -4.4560,Plg16.0000°,Azm209.0000° $M_0$4.48000×10^{17}
MEX Error ellipse: s-maj=7.3km s-min=2.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=220.0. Felt [IV] at Tapachula. Also felt at Huatulco. Felt [II] at Guatemala and Mixco, Guatemala. Also felt at Antigua Guatemala, Cahabon, Mazatenango, Panajachel, Quetzaltenango, San Pedro La Laguna, San Pedro Sacatepequez, Villa Canales and Villa Nueva. Felt at San Salvador, El Salvador. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}2.57 $M_{\theta\theta}$-1.93 $M_{\phi\phi}$-0.64 $M_{r\theta}$0.60 $M_{\theta\phi}$1.36 $M_{\phi r}$-0.89 Best double couple: NP1:ϕ_s131.00000°,δ56.00000°,λ101.00000°. NP2: ϕ_s293.00000°,δ36.00000°,λ75.00000°. Principal axes: T 2.8100,Plg76.0000°,Azm76.0000° ; N 0.1600,Plg9.0000°,Azm305.0000°; P -2.9700,Plg10.0000°,Azm214.0000° $M_0$2.90000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=1.5km az=41.3.
MOS Error ellipse: s-maj=7.4km s-min=4.0km az=103.6.
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}2.89 $M_{\theta\theta}$-1.65 $M_{\phi\phi}$-1.24 $M_{r\theta}$1.55 $M_{\theta\phi}$1.25 $M_{\phi r}$-0.92 Best double couple: NP1:ϕ_s125.00000° ,δ61.00000°,λ85.00000°. NP2:ϕ_s315.00000°,δ29.00000°,λ98.00000°. Principal axes: T 3.4300,Plg73.0000°,Azm24.0000°; N -0.2000,Plg3.0000°,Azm127.0000° ; P -3.2300,Plg16.0000°,Azm218.0000° $M_0$3.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s74 Moment tensor: Scale 10^{17}Nm; M_{rr}4.02 $M_{\theta\theta}$-3.16 $M_{\phi\phi}$-0.86 $M_{r\theta}$2.43 $M_{\theta\phi}$1.17 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s294.00000° ,δ28.00000°,λ92.00000°. NP2:ϕ_s112.00000°,δ62.00000°,λ89.00000°. Principal axes: T 4.8200,Plg73.0000°,Azm19.0000°; N -0.3700,Plg1.0000°,Azm112.0000° ; P -4.4500,Plg17.0000°,Azm202.0000° $M_0$4.60000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**27 07 21 27.6–1.9**	**37.06N–.07**	**141.2E–.10**	**48–11**	**3.1b**	**18**	**0-46**
IDC	III	27 07 21 21.8–6.8	36.58N	140.71E	0	3.3,3.3		**¶17198746**
ISCJB	III	27 07 21 27.6–1.3	37.07N–.06	141.2E–.10	56–7	3.1b,3.3		
JMA	III	27 07 21 28.8–.10	37.10N	141.12E	51–1	3.1,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=112.0km s-min=58.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=18.9km s-min=8.0km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 07 44 39.9–1.9**	**39.31N–.06**	**142.43E–.09**	**30–12**	**3.8b**	**27**	**1-81**
NIED	III	27 07 44 00	39.30N	142.50E	41	3.9W		**¶17198752**
JMA	III	27 07 44 38.9–.10	39.25N	142.46E	31–1	3.9		
ISCJB	III	27 07 44 39.2–1.3	39.27N–.05	142.5E–.10	40–10	3.7b,3.4s		
IDC	III	27 07 44 43.7–3.0	39.15N	142.48E	71–27	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ28.00000°,λ-79.00000°. NP2:ϕ_s199.00000°,δ63.00000°,λ-96.00000°. $M_0$7.37000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=8.4km az=11.1.
IDC Error ellipse: s-maj=22.4km s-min=15.8km az=86.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 07 45 47.1–3.7**	**37.69N–.06**	**141.88E–.07**	**5–23**	**3.6b**	**24**	**1-89**
IDC	III	27 07 45 46.4–.86	37.73N	141.99E	0	3.7,3.5		**¶17198753**
JMA	III	27 07 45 48.6–.10	37.69N	141.85E	16–2	4.2,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=19.4km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 08 36 48.4–1.3**	**36.90N–.05**	**140.55E–.04**	**7–12**	**3.5b**	**20**	**0-57**
IDC	III	27 08 36 47.4–1.8	36.80N	140.54E	0	3.6,3.4		**¶17198759**
ISCJB	III	27 08 36 48.7–.57	36.93N–.03	140.61E–.05	17–7	3.5b,3.4		
JMA	III	27 08 36 49.0	36.94N	140.53E	4–2	3.2,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=29.2km s-min=19.7km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=12.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s214.00000°,δ51.00000°,λ-108.00000°. NP2:ϕ_s62.00000°,δ42.00000°,λ-68.00000°. Principal axes: T Plg5.0000°,Azm317.0000°; N Plg14.0000°,Azm226.0000°; P Plg75.0000° ,Azm64.0000°

(228) Near east coast of eastern Honshu

JMA	**III**	**27 09 13 59.7–.10**	**38.63N**	**141.92E**	**45–1**	**4.0**		
								¶16362959

JMA Event type fe.

(162) South Island

WEL	**III**	**27 09 41 13.4–.08**	**43.43S**	**171.88E**	**9–0**	**3.9L**		
NEIC	III	27 09 41 13.4	43.44S	171.88E	9	3.9L		**¶16362960**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Darfield. After WEL.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 09 49 04.6–1.2**	**36.56N–.05**	**141.06E–.07**	**43–10**	**3.8b**	**36**	**0-91**
NIED	III	27 09 49 00	36.60N	141.00E	53	4.0W		**¶17198769**
ISCJB	III	27 09 49 03.6–.68	36.54N–.04	141.05E–.07	51–5	3.7b,2.8s		
JMA	III	27 09 49 04.7–.10	36.58N	140.99E	48–1	3.8,2.8s		
IDC	III	27 09 49 06.2–2.0	36.51N	140.93E	60–20	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ34.00000°,λ29.00000°. NP2:ϕ_s84.00000°,δ74.00000°,λ121.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.0km az=22.8.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=11.4km az=84.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 10 00 30.9–3.0**	**36.56N–.05**	**141.45E–.09**	**16–16**	**3.4b**	**17**	**1-59**
NIED	III	27 10 00 00	36.60N	141.30E	29	3.4W		**¶17198771**
IDC	III	27 10 00 27.4–2.7	36.59N	141.75E	0	3.7L,3.5		
ISCJB	III	27 10 00 30.8–1.7	36.52N–.05	141.5E–.10	26–9	3.5s,3.2b		
JMA	III	27 10 00 32.9–.10	36.56N	141.33E	49–2	3.5,3.2b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ3.00000°,λ-40.00000°. NP2:ϕ_s5.00000°,δ88.00000°,λ-92.00000°. $M_0$1.44000×10^{14}
IDC Error ellipse: s-maj=62.0km s-min=26.6km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=7.5km az=6.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 10 17 38.9–3.7**	**38.44N–.05**	**142.3E–.10**	**23–25**	**3.8b**	**20**	**1-62**
NIED	III	27 10 17 00	38.40N	142.30E	32	3.5W		**¶17198773**
IDC	III	27 10 17 33.7–1.1	38.56N	142.73E	0	3.7,3.7		
ISCJB	III	27 10 17 38.7–1.5	38.39N–.05	142.3E–.10	39–13	3.7s,3.6b		
JMA	III	27 10 17 39.7–.10	38.43N	142.25E	34–2	3.9,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ38.00000°,λ133.00000°. NP2:ϕ_s102.00000°,δ63.00000°,λ62.00000°. $M_0$2.35000×10^{14}
IDC Error ellipse: s-maj=30.6km s-min=20.1km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=15.7km s-min=7.9km az=178.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 10 23 20.9–.50**	**35.27N–.03**	**141.10E–.04**	**28–3**	**4.9b,4.6s**	**436**	**0-150**
NIED	III	27 10 23 00	35.30N	141.20E	20	4.9W,4.6s		**¶600568767**
IDC	III	27 10 23 17.0–.44	35.27N	141.00E	0	4.7,4.6		
BJI	III	27 10 23 19.6	35.35N	141.15E	43	5.0b,4.8b		
JMA	III	27 10 23 19.7–.10	35.31N	141.16E	31–2	5.0,4.8b		
MOS	III	27 10 23 20.5–.95	35.24N	140.85E	33	5.2b,4.6s		
ISCJB	III	27 10 23 20.4–.48	35.25N–.02	140.98E–.03	33–3	4.9b,4.6s		
NEIC	III	27 10 23 23.1–.54	35.24N	141.01E	41–5	4.9b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ42.00000°,λ-155.00000°. NP2:ϕ_s218.00000°,δ73.00000°,λ-51.00000°. $M_0$2.89000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=88.0.
JMA Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=4.6km az=115.5.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=161.6.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=137.0. Recorded [2 JMA] in Chiba.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 10 49 30.9–.10**	**37.13N**	**141.16E**	**34–2**	**3.6**		
								¶602697113

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 11 08 23.9–.49**	**37.34N–.03**	**141.60E–.04**	**40–4**	**4.8b,3.9s**	**358**	**1-146**
NIED	III	27 11 08 00	37.30N	141.70E	44	4.6W,3.9s		**¶16362964**
BJI	III	27 11 08 19.9	37.13N	141.80E	42	4.9b,4.9b		
JMA	III	27 11 08 23.9–.10	37.34N	141.57E	45–2	4.6,4.9b		
ISCJB	III	27 11 08 24.4–.39	37.33N–.02	141.47E–.03	55–3	4.8b,3.9s		
MOS	III	27 11 08 24.8–1.1	37.39N	141.41E	59	5.0b,3.9s		
NEIC	III	27 11 08 25.8–.55	37.34N	141.40E	52–5	4.8b,3.9s		
IDC	III	27 11 08 25.7–2.1	37.36N	141.53E	53–19	4.6,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ16.00000°,λ87.00000°. NP2:ϕ_s28.00000°,δ74.00000°,λ91.00000°. $M_0$1.05000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=42.0.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=136.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.3km s-min=9.5km az=100.0.

(246) Southwestern Ryukyu Islands

ISC	**III**	**27 11 25 39.4–.93**	**23.98N–.06**	**123.52E–.03**	**31–6**	**4.2b,3.2s**	**90**	**0-84**
NIED	III	27 11 25 00	24.00N	123.60E	35	4.2W,3.2s		**¶16374413**
IDC	III	27 11 25 34.6–.77	24.07N	123.57E	0	4.1,3.9		
ISCJB	III	27 11 25 39.0–.44	23.96N–.04	123.56E–.03	43–3	4.2b,3.3s		
JMA	III	27 11 25 39.5–.10	23.96N	123.59E	32–1	3.8,3.3s		
BJI	III	27 11 25 40.6	23.94N	123.34E	47	4.5b,4.3b		
NEIC	III	27 11 25 41.4–.53	23.99N	123.45E	47–4	4.6b,4.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ18.00000°,λ37.00000°. NP2:ϕ_s72.00000°,δ79.00000°,λ105.00000°. $M_0$2.25000×10^{15}
IDC Error ellipse: s-maj=29.9km s-min=17.5km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=173.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.4km az=155.0. Recorded [1 JMA] on Iriomote-jima.

(227) Eastern Honshu

ISC	**III**	**27 11 32 08.2–1.1**	**39.60N–.03**	**140.48E–.04**	**6–8**	**3.5b**	**28**	**0-89**
NIED	III	27 11 32 00	39.60N	140.50E	5	3.7W		**¶17198781**
ISCJB	III	27 11 32 07.5–.74	39.61N–.03	140.47E–.05	12–5	3.4b,3.2s		
IDC	III	27 11 32 07.1–.74	39.56N	140.44E	0	3.7,3.5		
JMA	III	27 11 32 08.0	39.60N	140.44E	6–1	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ56.00000°,λ-12.00000°. NP2:ϕ_s352.00000°,δ80.00000°,λ-146.00000°. $M_0$3.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.8km az=5.8.
IDC Error ellipse: s-maj=24.1km s-min=15.2km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s349.00000°,δ85.00000°,λ-157.00000°. NP2:ϕ_s257.00000°,δ67.00000°,λ-6.00000°. Principal axes: T Plg12.0000°,Azm121.0000°; N Plg66.0000°,Azm2.0000°; P Plg20.0000° ,Azm215.0000°

(122) Near coast of northern Chile

ISC	**III**	**27 11 54 27.7–.80**	**21.23S–.04**	**70.41W–.07**	**63–7**	**4.1b**	**47**	**0-146**
ISCJB	III	27 11 54 27.1–.47	21.24S–.03	70.34W–.07	72–4	4.1b		**¶16442641**
NEIC	III	27 11 54 27.0	21.28S	70.29W	59	4.3b		
GUC	III	27 11 54 27.6–.66	21.28S	70.29W	59–6	4.3L		
IDC	III	27 11 54 30.2–3.0	21.21S	70.17W	82–25	4.0,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=4.5km az=169.8.
NEIC Event type fe. Felt [III] at Iquique and [II] at Tocopilla. After GUC.
GUC Error ellipse: s-maj=2.1km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=17.9km az=49.0.

(218) Near east coast of Kamchatka Peninsula

ISC	**III**	**27 12 15 12.1–.52**	**53.76N–.03**	**160.66E–.03**	**53–4**	**4.8b,3.9s**	**828**	**1-155**
KRSC	III	27 12 15 09.2–.94	53.67N	160.89E	54–20	5.1L,3.9s		**¶16362967**
IDC	III	27 12 15 09.7–1.8	53.82N	160.41E	33–13	4.6L,4.3		
BJI	III	27 12 15 10.2	54.14N	160.54E	53	4.9b,4.8b		
MOS	III	27 12 15 11.8–.98	53.76N	160.51E	70	5.0b,4.8b		
ISCJB	III	27 12 15 12.3–.23	53.78N–.02	160.59E–.03	71–2	4.6b,4.8b		
NEIC	III	27 12 15 13.4–.43	53.91N	160.44E	61–4	4.8b,4.8b		

ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=8.9km az=151.0.
MOS Event type fe. Error ellipse: s-maj=7.1km s-min=4.2km az=74.8. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.1km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=168.0. Felt [III] at Petropavlovsk-Kamchatskiy.

(543) Germany

ISC	**III**	**27 12 22 48.5–.75**	**51.46N–.02**	**6.53E–.02**	**0**		**143**	**0-5**
ISCJB	III	27 12 22 47.7–.42	51.49N–.02	6.43E–.04	0			**¶16424591**
BUG	III	27 12 22 49.0	51.53N	6.60E	1	2.2L		
BNS	III	27 12 22 49.7–1.1	51.52N	6.58E	1	2.1L		
CSEM	III	27 12 22 49.0–.26	51.49N	6.49E	1	2.7L		
LDG	III	27 12 22 49.4–.15	51.54N	6.60E	1	2.6L		
BGR	III	27 12 22 50.6–.45	51.55N	6.60E	1	2.2L		

ISC Event type ki.

ISCJB Event type sr. Error ellipse: s-maj=3.7km s-min=2.7km az=135.2.
GDNRW Event type fi.
BNS Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.6km s-min=4.0km az=128.0.
LDG Event type sr. Error ellipse: s-maj=2.7km s-min=1.9km az=178.0. Suspected Mining induced.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=132.0.

(112) Peru-Brazil border region

ISC	**III**	**27 13 26 36.8–.41**	**8.69S–.05**	**74.60W–.05**	**133–3**	**4.8b**	**500**	**4-168**
SCB	III	27 13 26 32.7–.37	8.75S	74.71W	125	4.3L		**¶16362968**
BJI	III	27 13 26 36.2	8.70S	74.60W	126	5.2b		
NEIC	III	27 13 26 36.8–.32	8.70S	74.62W	132–2	4.8b		
ISCJB	III	27 13 26 36.7–.53	8.71S–.03	74.69W–.03	147–5	4.6b		
IDC	III	27 13 26 37.1–.47	8.78S	74.69W	138–3	4.6,4.3		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=62.8km s-min=7.5km az=47.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=225.0. Felt [V] at Pucallpa and [II] at Curimana. Also felt at Huanuco.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=140.5.
IDC Error ellipse: s-maj=13.6km s-min=8.2km az=47.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 13 41 34.3–.24**	**38.99N–.03**	**142.43E–.03**	**38–1**	**5.5b,5.1s**	**1539**	**1-159**
NIED	III	27 13 41 00	38.90N	142.40E	32	5.2W,5.1s		**¶602696936**
BJI	III	27 13 41 32.3	38.90N	142.33E	43	5.2b,5.2b		
ISCJB	III	27 13 41 33.5–.35	38.97N–.02	142.33E–.02	40–3	5.5b,5.0s		
JMA	III	27 13 41 33.4–.10	38.97N	142.40E	36–2	5.4,5.0s		
MOS	III	27 13 41 33.0–.89	39.10N	142.35E	33	5.7b,5.0s		
IDC	III	27 13 41 34.2–.40	38.97N	142.32E	34–2	5.1,5.0		
NEIC	III	27 13 41 34.3–.07	38.95N	142.36E	35	5.6b,5.3W		
GCMT	III	27 13 41 34.3–.10	39.10N	142.29E	38–0	5.3W,5.3W		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ17.00000°,λ-58.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-99.00000°. M_o8.05000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.9km az=95.8.
IDC Error ellipse: s-maj=9.2km s-min=8.7km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=146.0. Felt at Misawa. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi. Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ39.00000°,λ-39.00000°. NP2:ϕ_s190.00000°,δ66.00000°,λ-12.00000°. Principal axes: T 1.2400,Plg15.0000°,Azm303.0000°; N -0.2800,Plg29.0000°,Azm204.0000°; P -0.9600,Plg56.0000°,Azm58.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s99,c177; s107,c201;Duration: 1$\leq$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.76±.02 $M_{\theta\theta}$0.21±.01; $M_{\phi\phi}$0.55±.01; $M_{r\theta}$0.00±.01; $M_{\theta\phi}$0.22±.01; $M_{\theta r}$0.73±.01; Best double couple: NP1:ϕ_s189.00000°,δ68.00000°,λ-101.00000°. NP2:ϕ_s35.00000°,δ24.00000°,λ-66.00000°. Principal axes: T 0.9320,Plg22.0000°,Azm287.0000°; N 0.1580,Plg10.0000°,Azm193.0000°; P -1.0900,Plg65.0000°,Azm81.0000° M_o1.01100×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**27 15 17 44.9–.79**	**37.64N–.04**	**141.88E–.04**	**12–4**	**4.8b,3.9s**	**418**	**1-155**
NIED	III	27 15 17 00	37.60N	141.90E	5	4.5W,3.9s		**¶16362971**
BJI	III	27 15 17 43.2	37.62N	141.90E	20	5.0b,4.8b		
IDC	III	27 15 17 43.4–.43	37.66N	141.81E	0	4.8,4.7		
JMA	III	27 15 17 44.2–.10	37.62N	141.91E	19–2	4.7,4.7		
ISCJB	III	27 15 17 45.5–.67	37.65N–.03	141.79E–.03	23–4	4.8b,3.8s		
NEIC	III	27 15 17 48.0–1.1	37.68N	141.75E	28–7	4.8b,3.8s		
MOS	III	27 15 17 48.0–.84	37.89N	141.73E	33	5.0b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ39.00000°,λ-66.00000°. NP2:ϕ_s118.00000°,δ55.00000°,λ-108.00000°. M_o6.32000×10^{15}
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=112.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=156.9.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=149.0.
MOS Error ellipse: s-maj=6.6km s-min=4.4km az=100.6.

(160) Off east coast of North Island

ISC	**III**	**27 16 09 16.4–.69**	**37.61S–.05**	**177.27E–.05**	**150–5**	**4.0b**	**121**	**0-162**
ISCJB	III	27 16 09 15.9–.41	37.62S–.03	177.28E–.06	157–3	4.0b		**¶16373259**
IDC	III	27 16 09 16.2–1.1	37.62S	177.30E	144–8	4.2,3.9		
NEIC	III	27 16 09 16.2–.50	37.61S	177.28E	145–3	4.1b,3.9		
WEL	III	27 16 09 17.9–.25	37.45S	177.34E	128–2	4.5L,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.2km az=171.4.
IDC Error ellipse: s-maj=35.7km s-min=24.4km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=11.6km az=188.0. Felt at Ohiwa.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=1.0km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 16 19 17.9–2.2**	**38.97N–.05**	**142.50E–.09**	**9–12**	**3.7b**	**27**	**1-59**
NIED	III	27 16 19 00	39.00N	142.40E	38	3.7W		**¶17198809**
JMA	III	27 16 19 20.3–.10	38.99N	142.42E	33–2	3.9		
IDC	III	27 16 19 24.5–3.8	38.86N	142.46E	70–37	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ35.00000°,λ-100.00000°. NP2:ϕ_s204.00000°,δ55.00000°,λ-83.00000°. M_o4.69000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=20.6km az=120.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 16 23 41.6–2.1**	**38.75N–.05**	**142.19E–.10**	**27–13**	**3.5b**	**21**	**1-59**
ISCJB	III	27 16 23 40.2–1.5	38.71N–.05	142.31E–.08	30–8	3.4b		**¶600569041**
JMA	III	27 16 23 41.9–.10	38.74N	142.22E	32–2	4.1		
IDC	III	27 16 23 45.0–4.8	38.75N	142.16E	58–45	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=8.8km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=24.5km az=71.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 16 41 05.2–.10**	**38.99N**	**142.41E**	**31–2**	**3.6**		
NIED	III	27 16 41 00	39.00N	142.40E	35	3.8W		**¶600569059**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ37.00000°,λ-65.00000°. NP2:ϕ_s137.00000°,δ57.00000°,λ-108.00000°. M_o6.17000×10^{14}

(98) Trinidad

ISC	**III**	**27 16 51 39.8–1.3**	**10.65N–.04**	**61.69W–.04**	**77–8**		**46**	**0-7**
ISCJB	III	27 16 51 39.7–.51	10.68N–.04	61.71W–.04	75–5			**¶600861346**
FUNV	III	27 16 51 41.5	10.59N	61.69W	66	3.4W		
TRN	III	27 16 51 42.2	10.72N	61.60W	58	3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=136.0.
TRN Event type fe. Felt widely in Trinidad, MMI II, III, IV.

(227) Eastern Honshu

ISC	**III**	**27 17 09 57.1–1.2**	**36.82N–.03**	**139.45E–.03**	**2–9**	**3.5b,2.9s**	**24**	**0-91**
NIED	III	27 17 09 00	36.80N	139.50E	5	4.0W,2.9s		**¶602443941**
JMA	III	27 17 09 56.8	36.83N	139.47E	5–1	3.6,2.9s		
ISCJB	III	27 17 09 56.5–.48	36.82N–.03	139.45E–.04	8–4	3.5b,2.9s		
IDC	III	27 17 09 56.8–.73	36.76N	139.45E	0	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ71.00000°,λ-2.00000°. NP2:ϕ_s256.00000°,δ88.00000°,λ-161.00000°. M_o9.76000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=40.9.
IDC Error ellipse: s-maj=19.4km s-min=10.2km az=155.0.

(227) Eastern Honshu

JMA	**III**	**27 17 57 11.4**	**37.00N**	**140.72E**	**6–1**	**3.3**		
								¶603145339

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 18 08 34.0**	**36.88N**	**140.63E**	**9–1**	**3.3**		
								¶603049272

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 18 14 06.4–.10**	**36.91N**	**141.15E**	**49–1**	**2.9**		
								¶603049273

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 18 30 45.3–.10**	**36.70N**	**141.08E**	**45–1**	**3.5**		
								¶602697162

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 20 50 25.9–1.2**	**39.46N–.05**	**142.38E–.05**	**31–7**	**4.5b,3.7s**	**115**	**0-145**
NIED	III	27 20 50 00	39.50N	142.50E	23	4.3W,3.7s		**¶16364012**
JMA	III	27 20 50 24.4–.10	39.47N	142.45E	32–1	4.3,3.7s		
ISCJB	III	27 20 50 24.3–.81	39.45N–.03	142.44E–.05	32–5	4.3b,3.7s		
IDC	III	27 20 50 27.9–1.9	39.42N	142.36E	48–18	4.2,4.1		
NEIC	III	27 20 50 29.1–.83	39.48N	142.37E	58–7	4.6b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ11.00000°,λ-70.00000°. NP2:ϕ_s215.00000°,δ80.00000°,λ-94.00000°. M_o2.84000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.7km az=42.1.
IDC Error ellipse: s-maj=13.8km s-min=11.4km az=97.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.4km az=130.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 20 56 50.5–.10**	**39.24N**	**142.42E**	**32–1**	**3.5**		
NIED	III	27 20 56 00	39.20N	142.40E	50	4.0W		**¶600569252**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ43.00000°,λ-134.00000°. NP2:ϕ_s314.00000°,δ61.00000°,λ-57.00000°. M_o1.07000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**III**	**27 21 11 46.6–.43**	**36.59N–.04**	**141.04E–.05**	**53–3**	**4.7b,3.7s**	**406**	**0-158**
NIED	III	27 21 11 00	36.60N	141.10E	44	4.7W,3.7s		**¶16364014**
BJI	III	27 21 11 42.5	36.19N	140.99E	40	5.0b,4.6b		
IDC	III	27 21 11 46.9–.50	36.55N	140.96E	58–4	4.5,4.4		
JMA	III	27 21 11 46.0–.10	36.58N	141.06E	52–1	4.7,4.4		
ISCJB	III	27 21 11 46.1–.35	36.57N–.03	140.93E–.03	60–2	4.7b,3.7s		
MOS	III	27 21 11 47.2–.78	36.93N	140.88E	56	4.9b,3.7s		
NEIC	III	27 21 11 47.4–.16	36.60N	140.91E	57	4.8b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ39.00000°,λ98.00000°. NP2:ϕ_s205.00000°,δ51.00000°,λ84.00000°. M_o1.10000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=10.4km az=118.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=146.2.
MOS Error ellipse: s-maj=7.4km s-min=5.2km az=99.8.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.0km az=155.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 21 29 33.3–.63**	**38.86N–.05**	**142.11E–.07**	**51**	**3.8b**	**33**	**1-145**
NIED	III	27 21 29 00	38.90N	142.10E	50	4.0W		**¶602696270**
ISCJB	III	27 21 29 31.7–.52	38.86N–.04	142.09E–.06	51	3.8b,2.8s		
JMA	III	27 21 29 32.3–.10	38.89N	142.08E	44–2	3.9,2.8s		
IDC	III	27 21 29 34.8–2.5	38.80N	142.00E	64–23	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ32.00000°,λ-39.00000°. NP2:ϕ_s249.00000°,δ71.00000°,λ-116.00000°. M_o1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=30.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=14.0km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 22 23 58.7–.32**	**38.38N–.02**	**142.22E–.02**	**20–1**	**6.3b,6.2s**	**2572**	**1-164**
NIED	III	27 22 23 00	38.40N	142.30E	20	6.1W,6.2s		**¶602696198**
BJI	III	27 22 23 55.2	38.40N	142.10E	10	6.4,6.4s		
IDC	III	27 22 23 55.4–.31	38.37N	142.17E	0	6.1,6.1s		
ISCJB	III	27 22 23 56.3–.48	38.37N–.01	142.08E–.01	12–2	6.2b,6.2s		
NEIC	III	27 22 23 56.0–.00	38.21N	142.12E	15	6.2b,6.2s		
JMA	III	27 22 23 57.0–.10	38.38N	142.35E	32–1	6.5,6.2s		
MOS	III	27 22 23 57.8–.85	38.41N	142.08E	21	6.5b,6.2s		
NEIC	III	27 22 23 58.8–.07	38.42N	142.01E	19	6.4,6.3b		
GCMT	III	27 22 23 58.8–.10	38.40N	142.09E	22–0	6.2W,6.3b		
NEIC	III	27 22 24 06.9–.00	38.34N	142.09E	10	6.2W,6.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ26.00000°,λ-67.00000°. NP2:ϕ_s281.00000°,δ67.00000°,λ-101.00000°. M_o1.66000×10^{18}
IDC Error ellipse: s-maj=10.2km s-min=9.3km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=159.2.
NEIC Event type se. Moment Tensor Solution. s90 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.07 $M_{\theta\theta}$1.57 $M_{\phi\phi}$0.50 $M_{r\theta}$1.99 $M_{\theta\phi}$-0.61 $M_{\theta r}$-0.29 Best double couple: NP1:ϕ_s283.00000°,δ68.00000°,λ-97.00000°. NP2:ϕ_s122.00000°,δ23.00000°,λ-72.00000°. Principal axes: T 2.6500,Plg22.0000°,Azm18.0000°; N 0.2900,Plg6.0000°,Azm286.0000°; P -2.9400,Plg66.0000°,Azm180.0000° M_o2.80000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=4.5km az=105.3.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=143.0. Felt [IV] at Misawa and [II] at Zama. Also felt at Akishima, Akita, Aomori, Furukawa, Narita, Otawara, Tokyo, Uenohara and Urayasu. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s96 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.17 $M_{\theta\theta}$1.48 $M_{\phi\phi}$-0.31 $M_{r\theta}$1.14 $M_{\theta\phi}$-0.51 $M_{\theta r}$-0.03 Best double couple: NP1:ϕ_s274.00000°,δ65.00000°,λ-102.00000°. NP2:ϕ_s121.00000°,δ27.00000°,λ-66.00000°. Principal axes: T 2.0000,Plg19.0000°,Azm13.0000°; N -0.3900,Plg11.0000°,Azm279.0000°; P -1.6100,Plg68.0000°,Azm162.0000° M_o1.80000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s85.00000°,δ17.00000°,λ-90.00000°. NP2:ϕ_s265.00000°,δ73.00000°,λ-90.00000°. Principal axes: T Plg28.0000°,Azm355.0000°; N Plg0.0000°,Azm0.0000°; P Plg62.0000°,Azm175.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c343; s141,c561;Duration: 3$\leq$2 Moment tensor: Scale 10^{18} Nm; M_{rr}-2.28±.02 $M_{\theta\theta}$1.88±.01; $M_{\phi\phi}$0.39±.01; $M_{r\theta}$1.85±.03; $M_{\theta\phi}$-0.64±.01; $M_{\theta r}$0.32±.02; Best double couple: NP1:ϕ_s273.00000°,δ65.00000°,λ-104.00000°. NP2:ϕ_s123.00000°,δ28.00000°,λ-62.00000°. Principal axes: T 2.6900,Plg19.0000°,Azm13.0000°; N 0.3690,Plg13.0000°,Azm279.0000°; P -3.0650,Plg67.0000°,Azm157.0000° M_o2.87700×10^{18}
NEIC Event type se. Moment Tensor Solution. s102 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.76 $M_{\theta\theta}$1.53 $M_{\phi\phi}$0.24 $M_{r\theta}$-0.30 $M_{\theta\phi}$-0.56 $M_{\theta r}$-0.47 Best double couple: NP1:ϕ_s306.00000°,δ45.00000°,λ-68.00000°. NP2:ϕ_s95.00000°,δ49.00000°,λ-111.00000°. Principal axes: T 1.7400,Plg2.0000°,Azm200.0000°; N 0.1800,Plg16.0000°,Azm109.0000°; P -1.9200,Plg74.0000°,Azm297.0000° M_o1.80000×10^{18}

(256) Leyte

ISC	**III**	**27 22 29 46.7–.84**	**11.47N–.05**	**124.45E–.05**	**15**	**4.5b**	**16**	**1-79**
IDC	III	27 22 29 44.5–5.0	11.50N	124.92E	0	4.6,4.5		**¶17198859**
ISCJB	III	27 22 29 46.9–.60	11.48N–.04	124.38E–.05	15	4.4b,4.5		
MAN	III	27 22 29 47	11.51N	124.38E	23	5.2b,4.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=110.8km s-min=53.5km az=180.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=135.9.
MAN Event type fe. INTENSITY IV - NAVAL BILIRAN; INTENSITY III - LEYTE; LEYTE; INTENSITY II - CAPOOCAN.

(228) Near east coast of eastern Honshu

ISC	**III**	**27 22 41 59.4–1.9**	**38.35N–.04**	**142.24E–.06**	**23–14**	**4.3b**	**60**	**1-75**
IDC	III	27 22 41 56.1–.76	38.34N	142.18E	0	4.0,3.9		**¶602696840**
ISCJB	III	27 22 41 58.9–.77	38.34N–.03	142.27E–.06	34–7	4.3b,3.9		
JMA	III	27 22 41 59.7–.20	38.43N	142.21E	33–2	4.3,3.9		
NEIC	III	27 22 42 01.4–.75	38.31N	142.19E	38–7	4.9b,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=14.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=7.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=88.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**27 22 42 55.0–.20**	**37.00N**	**141.37E**	**41–2**	**3.5**		
								¶16481279

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(479) Colorado

ISC III 27 22 49 06.2–.67 40.47N–.02 107.14W–.02 0 92 1-23
ISCJB III 27 22 49 04.7–.25 40.51N–.02 107.15W–.02 0 3.5b **¶17198862**
IDC III 27 22 49 06.4–1.4 40.59N 107.18W 0 3.9L,3.8
NEIC III 27 22 49 06.5–.34 40.41N 107.10W 0 3.5L,3.8
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=2.8km s-min=2.6km az=144.0.
IDC Error ellipse: s-maj=25.0km s-min=10.7km az=64.0.
NEIC Event type fm. Error ellipse: s-maj=5.5km s-min=4.4km az=62.0. 24 km [15 miles] WSW of Steamboat Springs. Suspected Mining explosion.

(162) South Island

ISC III 27 22 54 09.0–1.2 43.59S–.04 170.21E–.03 10–9 48 0-152
IDC III 27 22 54 08.0–.91 43.53S 170.16E 0 3.9,3.7 **¶16373263**
ISCJB III 27 22 54 08.8–.66 43.63S–.04 170.21E–.05 11–6 3.6b,3.7
WEL III 27 22 54 09.4–.08 43.63S 170.25E 5 4.0L,3.7
NEIC III 27 22 54 09.6 43.63S 170.26E 5 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=86.5km s-min=14.0km az=18.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=141.8.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 4.
NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

ISC III 27 22 58 04.3–3.1 36.43N–.07 141.05E–.08 8–18 3.6b 21 0-75
ISCJB III 27 22 58 02.2–1.6 36.37N–.06 141.22E–.07 8–8 3.5b **¶17198863**
IDC III 27 22 58 02.8–1.0 36.40N 141.18E 0 3.7,3.5
JMA III 27 22 58 05.6 36.42N 141.05E 23–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.6km az=21.2.
IDC Error ellipse: s-maj=28.6km s-min=19.9km az=68.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA III 27 23 02 59.6–.20 38.41N 142.27E 25–2 3.5 ¶602696822
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA III 27 23 03 18.7–.10 38.31N 141.94E 27–1 3.9 ¶602696819
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 27 23 08 40.5–1.5 38.26N–.06 142.1E–.10 35 3.4b 21 1-58
IDC III 27 23 08 32.4–2.6 38.23N 142.86E 0 3.7,3.5 **¶17198865**
JMA III 27 23 08 39.4–.10 38.23N 142.09E 40–1 3.9,3.5
ISCJB III 27 23 08 40.2–1.3 38.27N–.05 142.1E–.10 35 3.4b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA III 27 23 32 52.4–.10 40.11N 142.14E 45–1 3.6 ¶602696764
JMA Event type fe.

(45) California-Baja California border region

ISC III 28 00 25 21.6–.90 32.30N–.03 115.39W–.02 15–6 53 0-15
ISCJB III 28 00 25 21.5–.41 32.32N–.03 115.34W–.03 20–4 **¶16545131**
NEIC III 28 00 25 22.8 32.29N 115.37W 6 3.7L,3.3L
ECX III 28 00 25 22.8–.52 32.29N 115.37W 6 3.4L,3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=4.1km az=15.5.
NEIC Event type fe. Felt at Yuma, Arizona. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 28 00 57 27.7–1.3 36.35N–.07 141.90E–.10 19 3.6b 16 1-64
ISCJB III 28 00 57 26.5–1.1 36.38N–.07 141.97E–.10 19 3.5b **¶602700163**
IDC III 28 00 57 27.1–1.3 36.75N 141.83E 0 3.7,3.6
JMA III 28 00 57 28.1–.30 36.35N 141.90E 54 3.5,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=8.1km az=31.9.
IDC Error ellipse: s-maj=29.9km s-min=27.9km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

(229) Off east coast of Honshu

ISC III 28 01 01 14.7–.72 37.78N–.07 142.01E–.06 30 3.8b 29 1-146
JMA III 28 01 01 13.9–.20 37.75N 142.06E 31–3 4.3 **¶17198876**
ISCJB III 28 01 01 13.1–.57 37.75N–.06 142.17E–.05 30 3.9b
IDC III 28 01 01 18.6–2.9 37.70N 142.03E 66–27 3.9,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.1km az=170.4.
IDC Error ellipse: s-maj=22.0km s-min=17.8km az=99.0.

(263) Talaud Islands

ISC III 28 01 03 12.7–.41 4.18N–.03 126.10E–.06 129–3 4.4b 112 1-146
MAN III 28 01 03 09 4.21N 125.93E 42 5.0b,4.0L **¶16364029**
BJI III 28 01 03 11.7 4.43N 126.50E 123 5.0b,4.6b
ISCJB III 28 01 03 11.7–.33 4.22N–.02 126.22E–.05 133–3 4.2b,4.6b
IDC III 28 01 03 12.2–.57 4.11N 125.95E 130–4 4.3,4.1
NEIC III 28 01 03 13.4–.74 4.22N 126.15E 138–7 4.6b,4.1
DJA III 28 01 03 17.7–.50 4N–5.0 126E–4.0 84–6 5.7b,5.3
ISC Event type fe.
MAN Event type fe. INTENSITY II - GENERAL SANTOS CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [II PIVS] at General Santos, Philippines.

(228) Near east coast of eastern Honshu

ISC III 28 01 19 46.8–.58 38.56N–.04 142.06E–.04 45–4 4.8b,4.2s 352 1-145
NIED III 28 01 19 00 38.60N 141.90E 50 4.7W,4.2s **¶16364030**
BJI III 28 01 19 40.7 38.42N 142.16E 25 5.0b,4.8b
MOS III 28 01 19 46.9–.97 38.70N 141.89E 55 5.0b,4.8b
ISCJB III 28 01 19 46.7–.42 38.62N–.03 141.95E–.04 54–3 4.7b,4.2s
JMA III 28 01 19 48.0–.10 38.61N 141.88E 50–1 4.4,4.2s
NEIC III 28 01 19 49.3–.68 38.58N 141.92E 66–6 4.7b,4.2s
IDC III 28 01 19 51.5–2.1 38.60N 141.82E 79–18 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ90.00000°. NP2:ϕ_s21.00000°,δ66.00000°,λ90.00000°. $M_0$1.42000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=4.5km az=101.8.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=146.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=142.0. Recorded [3 JMA] in Miyagi.
IDC Error ellipse: s-maj=13.7km s-min=11.8km az=126.0.

(228) Near east coast of eastern Honshu

JMA III 28 01 22 22.9–.10 38.87N 142.00E 49–1 3.8 ¶602700134
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 28 01 52 04.4–1.5 36.75N–.05 140.99E–.08 19–3 3.5b 20 0-74
NIED III 28 01 52 00 36.70N 141.00E 8 3.6W **¶600569488**
ISCJB III 28 01 52 01.9–1.3 36.70N–.04 141.17E–.07 11–6 3.4b
JMA III 28 01 52 04.8 36.74N 140.99E 20–1 4.0
IDC III 28 01 52 14.7–1.2 35.26N 137.19E 0 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ58.00000°,λ-14.00000°. NP2:ϕ_s333.00000°,δ78.00000°,λ-147.00000°. $M_0$2.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.4km az=16.3.
JMA Event type fe.
IDC Error ellipse: s-maj=29.4km s-min=21.8km az=98.0.

(228) Near east coast of eastern Honshu

ISC III 28 02 09 07.7–1.2 36.73N–.06 141.10E–.09 48–10 3.6b 25 0-91
ISCJB III 28 02 09 06.7–.79 36.73N–.06 141.09E–.08 54–6 3.6b **¶17198886**
JMA III 28 02 09 08.0–.10 36.79N 140.98E 56–1 3.8
IDC III 28 02 09 09.2–3.6 36.69N 141.10E 62–34 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=7.8km az=39.2.
JMA Event type fe.
IDC Error ellipse: s-maj=27.4km s-min=17.8km az=111.0.

(160) Off east coast of North Island

ISC III 28 02 28 37.8–.71 37.05S–.06 176.90E–.07 307–6 3.9b 211 1-156
IDC III 28 02 28 37.1–.95 37.00S 177.08E 303–7 4.4,3.9 **¶16373264**
ISCJB III 28 02 28 38.2–.54 37.11S–.05 176.92E–.08 316–4 3.9b,3.9
NEIC III 28 02 28 41.4 36.93S 176.94E 274 4.3b,3.9
WEL III 28 02 28 41.1–.34 36.91S 176.96E 277–2 5.0L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=20.0km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.5km az=24.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=0.0. Felt in the Bay of Plenty region.

(228) Near east coast of eastern Honshu

ISC III 28 02 40 47.9–1.1 36.77N–.04 141.03E–.07 43–8 4.0b 38 0-83
NIED III 28 02 40 00 36.80N 141.00E 59 4.0W **¶600569518**
ISCJB III 28 02 40 46.7–.66 36.74N–.04 141.08E–.07 51–4 4.0b,3.1s
JMA III 28 02 40 47.7–.10 36.76N 141.00E 49–1 4.0,3.1s
IDC III 28 02 40 52.2–2.1 36.75N 140.85E 84–18 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ24.00000°,λ118.00000°. NP2:ϕ_s75.00000°,δ69.00000°,λ78.00000°. $M_0$9.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.1km az=17.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.7km s-min=15.5km az=117.0.

(228) Near east coast of eastern Honshu

JMA III 28 02 42 16.0–.10 38.85N 142.13E 39–2 3.5
NIED III 28 02 42 00 38.90N 142.10E 62 4.7W **¶600569520**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ39.00000°,λ159.00000°. NP2:ϕ_s132.00000°,δ77.00000°,λ53.00000°. $M_0$1.48000×10^{16}

(228) Near east coast of eastern Honshu

ISC III 28 02 55 12.0–2.2 36.55N–.07 141.1E–.10 26–13 3.2b 12 0-57
IDC III 28 02 55 10.7–2.1 36.10N 140.83E 0 3.4,3.3b **¶600569535**
ISCJB III 28 02 55 11.7–1.8 36.55N–.07 141.1E–.10 36–16 3.2b,3.3b
JMA III 28 02 55 13.3–.10 36.62N 141.02E 44–1 3.7,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=45.5km s-min=24.8km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=18.8km s-min=9.8km az=22.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 28 03 19 33.2–1.2 39.44N–.04 142.55E–.05 30–8 4.5b,3.7s 142 1-145
NIED III 28 03 19 00 39.50N 142.50E 38 4.5W,3.7s **¶600569556**
JMA III 28 03 19 33.2–.10 39.45N 142.49E 35–2 4.4,3.7s
ISCJB III 28 03 19 33.4–.54 39.40N–.03 142.47E–.04 43–4 4.4b,3.7s
IDC III 28 03 19 35.9–1.9 39.36N 142.47E 55–18 4.3,4.1L
NEIC III 28 03 19 36.2–.60 39.38N 142.43E 56–6 4.6b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ47.00000°,λ-114.00000°. NP2:ϕ_s96.00000°,δ48.00000°,λ-66.00000°. $M_0$6.07000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=7.8.
IDC Error ellipse: s-maj=12.6km s-min=10.5km az=96.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=150.0.

(228) Near east coast of eastern Honshu

ISC III 28 03 23 47.7–1.4 40.16N–.06 142.4E–.10 44–13 4.0b 44 0-144
NIED III 28 03 23 00 40.20N 142.40E 41 4.1W **¶602699796**
ISCJB III 28 03 23 46.8–.89 40.17N–.05 142.4E–.10 52–7 4.0b
JMA III 28 03 23 47.4–.10 40.17N 142.38E 36–1 3.9
IDC III 28 03 23 50.1–2.7 40.14N 142.37E 67–23 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ26.00000°,λ59.00000°. NP2:ϕ_s32.00000°,δ68.00000°,λ104.00000°. $M_0$1.54000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.9km az=171.2.
JMA Event type fe.
IDC Error ellipse: s-maj=16.0km s-min=15.4km az=135.0.

(228) Near east coast of eastern Honshu

ISC III 28 03 31 53.1–.78 38.75N–.06 142.28E–.07 27 3.6b 23 1-73
ISCJB III 28 03 31 51.0–.71 38.73N–.06 142.43E–.06 27 3.6b **¶600569573**
JMA III 28 03 31 55.2–.10 38.77N 142.20E 34–2 4.1
IDC III 28 03 31 55.3–.67 38.77N 142.47E 51–6 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=164.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=14.5km az=102.0.

(228) Near east coast of eastern Honshu

JMA III 28 03 55 41.1–.10 38.75N 142.18E 32–2 3.6 ¶602699740
JMA Event type fe.

(45) California-Baja California border region

ISC III 28 04 32 55.3–.73 32.39N–.02 115.18W–.02 17–4 110 0-38
IDC III 28 04 32 53.3–1.5 32.34N 115.33W 0 3.8b,3.7 **¶16364035**
ISCJB III 28 04 32 54.7–.28 32.38N–.02 115.16W–.02 20–2 3.6b,3.3s
MEX III 28 04 32 56.7–.97 32.45N 115.11W 9–3 4.0,3.3s
ECX III 28 04 32 56.0–.51 32.36N 115.19W 8 4.2L,4.0
NEIC III 28 04 32 56.0 32.36N 115.19W 8 4.2L,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=9.4km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.7km az=151.3.
MEX Error ellipse: s-maj=6.4km s-min=6.6km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=1.5km az=-1.0.
NEIC Event type fe. Felt [III] at Mexicali. Also felt at Algodones. Felt at Yuma, Arizona and at Calexico, El Centro and Imperial, California. After ECX.

(228) Near east coast of eastern Honshu

ISC III 28 04 45 47.2–.89 36.42N–.08 141.08E–.07 32 3.6b 15 0-64
NIED III 28 04 45 00 36.50N 141.10E 41 3.7W **¶600569662**
IDC III 28 04 45 42.5–1.1 36.31N 140.93E 0 3.8,3.6
ISCJB III 28 04 45 45.1–.74 36.36N–.06 141.30E–.06 32 3.5b,3.6
JMA III 28 04 45 47.7–.10 36.47N 141.12E 47–2 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ34.00000°,λ-6.00000°. NP2:ϕ_s298.00000°,δ87.00000°,λ-124.00000°. $M_0$3.61000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=22.9km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.7km az=21.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(43) Southern California

ISC III 28 04 56 12.2–.90 33.18N–.02 115.69W–.02 10–7 93 0-7
ISCJB III 28 04 56 11.4–.33 33.17N–.01 115.67W–.02 11–3 **¶16401320**
ECX III 28 04 56 12.3–.64 33.18N 115.67W 3 3.5L,3.3
NEIC III 28 04 56 12.0 33.19N 115.65W 4 3.4L,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.4km az=24.8.
ECX Error ellipse: s-maj=1.4km s-min=2.0km az=-1.0.
NEIC Event type fe. Felt at Indio. After PAS.

(228) Near east coast of eastern Honshu

ISC III 28 05 02 01.9–2.2 36.62N–.08 141.1E–.10 13–12 19 0-44
IDC III 28 05 01 60.0–5.7 36.74N 141.19E 0 3.5b,3.4 **¶17198906**
NIED III 28 05 02 00 36.60N 141.00E 8 3.5W,3.4
JMA III 28 05 02 03.5–.10 36.61N 141.02E 32–1 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=96.0km s-min=43.9km az=145.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ38.00000°,λ-161.00000°. NP2:ϕ_s46.00000°,δ79.00000°,λ-54.00000°. $M_0$2.15000×10^{14}
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC III 28 05 24 31.3–1.5 36.32N–.04 141.93E–.05 12–8 4.6b,4.0s 217 1-147
IDC III 28 05 24 29.5–.49 36.28N 141.86E 0 4.5,4.4 **¶16364039**
BJI III 28 05 24 30.1 36.33N 141.68E 10 4.8b,4.7b
ISCJB III 28 05 24 31.9–.88 36.32N–.03 141.94E–.04 28–6 4.5b,3.9s
MOS III 28 05 24 32.8–.91 36.31N 141.84E 33 4.9b,3.9s
JMA III 28 05 24 33.0–.20 36.38N 141.85E 62–4 4.4,3.9s

NEIC III 28 05 24 35.6–.69 36.24N 141.92E 46–6 4.6b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.9km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=35.8.
MOS Error ellipse: s-maj=8.5km s-min=5.4km az=110.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.6km az=61.0.

(259) Mindanao

ISC	**III**	**28 05 32 29.5–1.3**	**8.67N–.03**	**125.07E–.06**	**25–10**	**4.2s,4.2b**	**81**	**1-145**
MAN	III	28 05 32 27	8.56N	124.89E	3	5.0b,4.0s		¶16374423
ISCJB	III	28 05 32 28.7–.42	8.59N–.02	125.07E–.05	39–4	4.2s,4.2b		
NEIC	III	28 05 32 29.6–3.0	8.69N	125.16E	29–22	4.4b,4.2b		
BJI	III	28 05 32 30.1	8.71N	125.04E	33	5.0b,4.5s		
IDC	III	28 05 32 31.4–2.8	8.68N	125.27E	42–28	4.0,3.9		
DJA	III	28 05 32 43.1–3.5	7N–30	125E–8.0	10	5.6b,5.1		

ISC Event type fe.
MAN Event type fe. INTENSITY III - TAGOLOAN MISAMIS ORIENTAL; INTENSITY II - CAGAYAN DE ORO CITY; MALAYBALAY BUKIDNON.
ISCJB Event type fe.
NEIC Event type fe. Felt [III PIVS] at Tagoloan and [II PIVS] at Cagayan de Oro. Felt [IV] at Manolo Fortich. Also felt at Adtugan, Balingasag, Gingoog, Iligan, Lagonglong and Lapasan.

(227) Eastern Honshu

JMA	**III**	**28 05 37 58.7**	**39.58N**	**140.44E**	**7–1**	**2.8**		
								¶602699647

JMA Event type fe.

(227) Eastern Honshu

ISC	**III**	**28 05 38 37.4–.90**	**39.57N–.03**	**140.45E–.03**	**12–6**	**4.1b**	**50**	**0-146**
NIED	III	28 05 38 00	39.60N	140.50E	5	4.1W		¶602443946
IDC	III	28 05 38 35.4–.62	39.58N	140.35E	0	4.2,4.0		
JMA	III	28 05 38 36.7	39.60N	140.44E	6–1	4.2,4.0		
ISCJB	III	28 05 38 36.7–.43	39.58N–.03	140.42E–.04	18–3	4.1b,4.0		
NEIC	III	28 05 38 41.9–.95	39.55N	140.37E	47–9	4.2b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ24.00000°,λ121.00000°. NP2:ϕ_s110.00000°,δ70.00000°,λ77.00000°. $M_0$1.44000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=15.7km az=107.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s90.00000°,δ71.00000°,λ56.00000°. NP2:ϕ_s333.00000°,δ38.00000°,λ148.00000°. Principal axes: T Plg52.0000°,Azm320.0000°; N Plg32.0000°,Azm102.0000°; P Plg19.0000° ,Azm204.0000°
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=8.3km az=121.0. Recorded [3 JMA] in Akita.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 05 44 56.5–.47**	**36.36N–.03**	**141.83E–.03**	**27–2**	**5.2b,5.1s**	**740**	**1-148**
NIED	III	28 05 44 00	36.40N	141.90E	29	5.2W,5.1s		¶16364042
BJI	III	28 05 44 52.8	36.40N	141.56E	11	5.3b,5.3s		
JMA	III	28 05 44 54.7–.20	36.36N	141.86E	73–5	5.3,5.3s		
ISCJB	III	28 05 44 55.1–.69	36.35N–.02	141.75E–.02	26–4	5.2b,5.0s		
IDC	III	28 05 44 57.4–3.8	36.33N	141.79E	33–28	4.9,4.8		
MOS	III	28 05 44 57.7–.85	36.73N	141.68E	33	5.6b,5.2s		
NEIC	III	28 05 44 58.4–.50	36.36N	141.73E	39–4	5.2W,5.1b		
GCMT	III	28 05 44 58.4–.20	36.29N	141.99E	28–0	5.2W,5.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ25.00000°,λ84.00000°. NP2:ϕ_s16.00000°,δ65.00000°,λ93.00000°. $M_0$6.95000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=153.3.
IDC Error ellipse: s-maj=12.5km s-min=9.3km az=100.0.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=108.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=148.0. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}5.70 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-6.56 $M_{r\theta}$-0.13 $M_{\theta\phi}$-1.28 $M_{\phi r}$3.59 Best double couple: NP1:ϕ_s198.00000°,δ31.00000°,λ103.00000°. NP2:ϕ_s3.00000° ,δ60.00000°,λ82.00000°. Principal axes: T 6.7100,Plg74.0000°,Azm253.0000° ; N 0.9900,Plg7.0000°,Azm7.0000°; P -7.7000,Plg15.0000°,Azm98.0000° $M_0$7.30000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c112; s107,c192; Duration: 1$\mathfrak{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57±.02 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.54±.01; $M_{r\theta}$0.20±.02; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$0.61±.02; Best double couple: NP1:ϕ_s18.00000°,δ69.00000° ,λ89.00000°. NP2:ϕ_s200.00000°,δ21.00000°,λ92.00000°. Principal axes: T 0.8510,Plg66.0000°,Azm287.0000°; N 0.0420,Plg1.0000°,Azm18.0000° ; P -0.8930,Plg24.0000°,Azm109.0000° $M_0$0.87200×10^{17}

(135) Near coast of central Chile

ISC	**III**	**28 06 10 42.0–.38**	**34.94S–.03**	**71.75W–.04**	**49–3**	**5.2b,4.5s**	**1010**	**0-179**
MOS	III	28 06 10 39.8–1.0	34.74S	71.55W	33	5.5b,4.5s		¶16364045
GUC	III	28 06 10 40.7–.64	34.89S	71.84W	45–2	5.7L,4.5s		
BJI	III	28 06 10 41.0	35.71S	71.16W	47	5.5s,5.4b		
SJA	III	28 06 10 42.3–1.7	34.70S	71.94W	155–24	4.9L,4.5W		
ISCJB	III	28 06 10 42.1–.33	34.90S–.02	71.75W–.04	61–3	5.2b,4.5W		
GCMT	III	28 06 10 42.4–.20	34.91S	72.08W	51–1	5.2W,4.5W		
NEIC	III	28 06 10 42.4–.11	34.83S	71.54W	46	5.2b,4.5W		
IDC	III	28 06 10 42.1–.57	34.89S	71.62W	47–4	5.2,5.0		

ISC Event type fe.
MOS Error ellipse: s-maj=16.3km s-min=7.0km az=100.0.
GUC Error ellipse: s-maj=1.2km s-min=2.7km az=-1.0.
SJA Error ellipse: s-maj=7.2km s-min=32.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.8km az=4.7.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c83; s75,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.66±.24 $M_{\theta\theta}$-0.21±.18; $M_{\phi\phi}$-5.45±.17; $M_{r\theta}$1.42±.14; $M_{\theta\phi}$-1.29±.12; $M_{\phi r}$-3.62±.18; Best double couple: NP1:ϕ_s176.00000°,δ62.00000° ,λ73.00000°. NP2:ϕ_s29.00000°,δ32.00000°,λ119.00000°. Principal axes: T 7.1440,Plg68.0000°,Azm52.0000°; N -0.5080,Plg15.0000°,Azm184.0000° ; P -6.6370,Plg15.0000°,Azm278.0000° $M_0$6.89100×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=72.0. Felt [V] at Iloca, Linares, Molina, Rio Claro, Romeral, Sagrada Familia and Talca; [IV] at Constitucion, Curico, Pichilemu and Rancagua. Felt widely in central Chile from Santiago and Vina del Mar to Cauquenes. Also felt at San Rafael, Argentina.
IDC Error ellipse: s-maj=18.0km s-min=10.9km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 06 18 32.8–2.0**	**37.59N–.05**	**141.79E–.06**	**1–12**	**3.9b**	**35**	**1-146**
IDC	III	28 06 18 33.5–.73	37.64N	141.85E	0	4.1,4.0		¶17198911
JMA	III	28 06 18 34.9–.10	37.60N	141.82E	16–2	4.2,4.0		
ISCJB	III	28 06 18 34.5–1.2	37.58N–.04	141.88E–.06	19–7	3.8b,4.0		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**28 06 46 14.9–.10**	**36.91N**	**141.10E**	**50–1**	**3.8**		
								¶602699573

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 07 10 47.4–1.4**	**40.20N–.06**	**142.4E–.10**	**44–13**	**3.9b**	**40**	**0-88**
NIED	III	28 07 10 00	40.20N	142.40E	41	4.1W		¶602699432
ISCJB	III	28 07 10 46.4–.88	40.23N–.05	142.40E–.10	52–8	3.9b		
JMA	III	28 07 10 47.2–.10	40.22N	142.38E	34–1	3.9		
IDC	III	28 07 10 49.8–2.6	40.20N	142.31E	67–23	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ18.00000°,λ0.00000°. NP2:ϕ_s54.00000°,δ90.00000°,λ108.00000°. $M_0$1.60000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=8.0km az=166.1.
JMA Event type fe.
IDC Error ellipse: s-maj=16.4km s-min=15.1km az=115.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 07 32 42.1–.39**	**38.78N–.04**	**142.44E–.05**	**31–2**	**4.4b,3.9s**	**150**	**1-145**
NIED	III	28 07 32 00	38.80N	142.40E	38	4.4W,3.9s		¶16364047
BJI	III	28 07 32 36.7	38.73N	142.90E	29	5.0b,4.6b		
JMA	III	28 07 32 41.5–.20	38.81N	142.43E	33–3	4.5,4.6b		
IDC	III	28 07 32 42.8–.43	38.80N	142.35E	35–2	4.3,4.2		
ISCJB	III	28 07 32 42.0–.62	38.79N–.03	142.40E–.05	43–5	4.4b,3.8s		
NEIC	III	28 07 32 43.0–.20	38.80N	142.42E	35	4.5b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ22.00000°,λ-19.00000°. NP2:ϕ_s237.00000°,δ83.00000°,λ-111.00000°. $M_0$4.76000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=10.6km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.1km az=35.8.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.2km az=137.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 07 35 02.6–.96**	**38.87N–.07**	**142.66E–.10**	**27**	**4.1b**	**27**	**1-145**
IDC	III	28 07 34 57.6–1.1	38.97N	143.01E	0	4.1,4.0		¶16475478
ISCJB	III	28 07 34 59.6–.74	38.85N–.06	142.94E–.09	27	4.1b,4.0		
NIED	III	28 07 35 00	38.80N	142.40E	35	4.0W,4.0		
NEIC	III	28 07 35 03.0–.51	38.93N	142.89E	35	4.4b,4.0		
JMA	III	28 07 35 04.2–.20	38.82N	142.42E	33–4	4.1,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=31.2km s-min=20.8km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=8.1km az=28.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s64.00000°,δ19.00000°,λ-60.00000°. NP2:ϕ_s213.00000°,δ74.00000°,λ-100.00000°. $M_0$1.12000×10^{15}
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.1km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 08 11 08.3–1.2**	**36.75N–.05**	**141.12E–.08**	**45–10**	**3.4b**	**25**	**0-60**
NIED	III	28 08 11 00	36.80N	140.90E	35	3.5W		¶17198920
IDC	III	28 08 11 02.0–1.2	36.82N	141.38E	0	3.6,3.5		
ISCJB	III	28 08 11 07.5–.76	36.74N–.04	141.11E–.08	54–6	3.4b,3.5		
JMA	III	28 08 11 09.6–.10	36.79N	140.95E	53–1	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ62.00000°,λ150.00000°. NP2:ϕ_s196.00000°,δ64.00000°,λ32.00000°. $M_0$1.73000×10^{14}
IDC Error ellipse: s-maj=30.4km s-min=22.0km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.7km az=13.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 08 39 34.4–1.9**	**38.35N–.05**	**142.28E–.06**	**14–11**	**3.6b**	**31**	**1-89**
NIED	III	28 08 39 00	38.40N	142.30E	11	3.8W		¶17198925
ISCJB	III	28 08 39 32.8–1.4	38.29N–.04	142.35E–.07	16–10	3.6b,2.7s		
IDC	III	28 08 39 32.0–.73	38.24N	142.50E	0	3.8,3.8		
JMA	III	28 08 39 34.8–.10	38.40N	142.29E	29–2	4.1,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ31.00000°,λ-32.00000°. NP2:ϕ_s300.00000°,δ74.00000°,λ-117.00000°. $M_0$5.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.3km az=21.1.
IDC Error ellipse: s-maj=23.5km s-min=14.3km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 09 25 47.3–1.5**	**37.05N–.05**	**141.25E–.07**	**24–10**	**4.0b,3.6s**	**48**	**0-147**
NIED	III	28 09 25 00	37.00N	141.20E	11	4.0W,3.6s		¶16459624
JMA	III	28 09 25 47.1–.10	37.02N	141.22E	32–1	4.5,3.6s		
ISCJB	III	28 09 25 47.2–.85	37.02N–.04	141.26E–.08	38–7	4.0b,3.7s		
IDC	III	28 09 25 50.4–1.9	37.01N	141.12E	50–18	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ53.00000°,λ-147.00000°. NP2:ϕ_s87.00000°,δ64.00000°,λ-43.00000°. $M_0$1.14000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.8km az=7.0.
IDC Error ellipse: s-maj=15.5km s-min=11.1km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 10 25 28.2–.64**	**36.60N–.07**	**143.35E–.09**	**35**	**3.8b,3.0s**	**31**	**2-89**
IDC	III	28 10 25 23.8–.65	36.79N	143.53E	0	3.9,3.8		¶17198935
ISCJB	III	28 10 25 26.4–.49	36.67N–.06	143.27E–.07	33	3.7b,2.9s		
JMA	III	28 10 25 40.8–.20	36.29N	141.87E	69	3.3,2.9s		

ISC Event type ke.
IDC Error ellipse: s-maj=18.5km s-min=15.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=6.4km az=140.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 11 08 10.9–1.0**	**36.79N–.03**	**140.52E–.04**	**8–7**	**4.0b**	**47**	**0-147**
NIED	III	28 11 08 00	36.70N	140.60E	5	3.9W		¶16375917
IDC	III	28 11 08 10.0–.70	36.87N	140.49E	0	4.2,4.0		
JMA	III	28 11 08 10.9	36.78N	140.56E	8–1	4.0,4.0		
ISCJB	III	28 11 08 10.5–.52	36.75N–.03	140.62E–.05	17–3	4.0b,4.0		
NEIC	III	28 11 08 14.8–.33	36.80N	140.42E	35	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ32.00000°,λ-99.00000°. NP2:ϕ_s156.00000°,δ59.00000°,λ-85.00000°. $M_0$8.43000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=11.2km az=161.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s155.00000°,δ49.00000°,λ-75.00000°. NP2:ϕ_s312.00000°,δ43.00000°,λ-107.00000°. Principal axes: T Plg3.0000°,Azm234.0000°; N Plg11.0000°,Azm325.0000°; P Plg78.0000° ,Azm127.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=17.4.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=142.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 11 18 43.9–.37**	**38.84N–.03**	**143.06E–.03**	**20–2**	**5.3b,4.8s**	**1142**	**1-162**
NIED	III	28 11 18 00	38.80N	143.00E	11	5.2W,4.8s		¶16373270
ISCJB	III	28 11 18 41.8–.72	38.80N–.02	142.96E–.02	14–4	5.2b,4.8s		
JMA	III	28 11 18 43.1–.30	38.84N	142.97E	18–3	5.3,4.8s		
BJI	III	28 11 18 43.7	38.80N	142.67E	23	5.2b,5.2s		
MOS	III	28 11 18 44.0–1.3	38.86N	142.90E	33	5.4b,4.7s		
IDC	III	28 11 18 45.8–3.6	38.79N	143.00E	32–27	4.7s,4.7		
NEIC	III	28 11 18 46.4–1.0	38.80N	142.90E	34–7	5.3b,4.8s		
GCMT	III	28 11 18 46.3–.10	38.84N	142.89E	15–0	5.2W,4.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ27.00000°,λ-63.00000°. NP2:ϕ_s312.00000°,δ66.00000°,λ-103.00000°. $M_0$7.45000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.0km az=163.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=14.6km s-min=9.8km az=82.9.
IDC Error ellipse: s-maj=11.3km s-min=8.0km az=99.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=133.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c122; s120,c200; Duration: 1$\mathfrak{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.57±.02 $M_{\theta\theta}$0.19±.01; $M_{\phi\phi}$0.38±.01; $M_{r\theta}$0.62±.04; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$-0.19±.04; Best double couple: NP1:ϕ_s299.00000°,δ70.00000° ,λ-108.00000°. NP2:ϕ_s163.00000°,δ27.00000°,λ-50.00000°. Principal axes: T 0.8130,Plg23.0000°,Azm43.0000°; N 0.1110,Plg17.0000°,Azm305.0000° ; P -0.9230,Plg61.0000°,Azm182.0000° $M_0$0.86800×10^{17}

(228) Near east coast of eastern Honshu

ISC	**III**	**28 11 34 12.9–1.9**	**37.99N–.05**	**142.06E–.07**	**23–13**	**4.2b**	**56**	**1-146**
NIED	III	28 11 34 00	38.00N	142.00E	38	4.1W		¶16475507
IDC	III	28 11 34 09.1–.58	37.97N	142.16E	0	4.4,4.2		
ISCJB	III	28 11 34 13.5–.90	38.01N–.04	142.08E–.07	41–7	4.2b,4.2		
JMA	III	28 11 34 14.2–.10	38.02N	141.99E	41–1	4.4,4.2		
NEIC	III	28 11 34 16.6–.96	37.96N	142.09E	57–9	4.5b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ8.00000°,λ-31.00000°. NP2:ϕ_s197.00000°,δ86.00000°,λ-97.00000°. $M_0$1.87000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=13.7km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.4km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=8.1km az=88.0.

(71) Near coast of Guatemala

ISC	**III**	**28 12 19 16.1–.65**	**13.75N–.06**	**90.90W–.05**	**75–5**	**4.5b**	**527**	**1-147**
IDC	III	28 12 19 12.8–2.2	13.95N	90.52W	44–16	5.1L,4.4		¶16392121
CASC	III	28 12 19 14.9–1.9	13.66N	90.91W	21–8	4.9,4.7L		
BJI	III	28 12 19 15.8	13.80N	90.80W	83	5.1s,4.7		
ISCJB	III	28 12 19 16.3–.35	13.81N–.03	90.78W–.03	90–3	4.4b,4.7		
NEIC	III	28 12 19 16.7–.63	13.78N	90.81W	77–5	4.9,4.5b		

ISC Event type fe.

IDC Error ellipse: s-maj=31.2km s-min=15.8km az=38.0.
CASC Error ellipse: s-maj=8.6km s-min=7.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=2.8km az=136.1.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=4.9km az=212.0. Felt [III] at Antigua Guatemala. Also felt at Ciudad Vieja, Escuintla, Mazatenango, Mixco, Palin, San Lucas Toliman, San Marcos La Laguna and Villa Nueva. Felt [III] at San Salvador, El Salvador.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 12 39 13.1–1.7**	**39.22N–.05**	**142.21E–.09**	**30–11**	**3.8b,3.4s**	**25**	**0-85**
NIED	III	28 12 39 00	39.30N	142.20E	44	4.1W,3.4s		**¶17198947**
IDC	III	28 12 39 08.4–1.2	39.16N	142.19E	0	4.0,3.8b		
ISCJB	III	28 12 39 13.9–1.1	39.28N–.05	142.3E–.10	49–8	3.8b,3.5s		
JMA	III	28 12 39 14.5–.10	39.28N	142.24E	43–1	3.7,3.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ15.00000°,λ59.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ98.00000°. $M_0$1.49000×10^{15}
IDC Error ellipse: s-maj=30.9km s-min=20.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=16.4km s-min=6.8km az=13.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 14 01 35.2–2.4**	**39.16N–.05**	**142.6E–.10**	**16–12**		**16**	**1-59**
NIED	III	28 14 01 00	39.20N	142.40E	59	4.1W		**¶17198960**
IDC	III	28 14 01 30.2–3.4	39.60N	143.03E	0	3.9,3.9s		
ISCJB	III	28 14 01 37.6–2.0	39.16N–.05	142.5E–.10	15–12	4.3s,3.4b		
JMA	III	28 14 01 38.8–.10	39.17N	142.43E	32–2	3.8,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ47.00000°,λ60.00000°. NP2:ϕ_s293.00000°,δ51.00000°,λ118.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=75.6km s-min=43.8km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=7.2km az=9.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 14 13 56.0–.82**	**39.26N–.04**	**142.29E–.07**	**43–6**	**4.3b,3.3s**	**69**	**0-81**
NIED	III	28 14 13 00	39.30N	142.20E	47	4.2W,3.3s		**¶16375918**
ISCJB	III	28 14 13 55.2–.64	39.27N–.03	142.29E–.07	52–4	4.2b,3.3s		
JMA	III	28 14 13 56.1–.10	39.29N	142.24E	43–1	4.1,3.3s		
IDC	III	28 14 13 58.0–2.2	39.22N	142.21E	63–20	4.1,3.9		
NEIC	III	28 14 13 58.3–.63	39.22N	142.31E	68–6	4.6b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s15.00000°,δ71.00000°,λ92.00000°. $M_0$2.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.1km az=14.4.
JMA Event type fe.
IDC Error ellipse: s-maj=16.5km s-min=13.6km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.5km az=99.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 14 44 55.7–1.8**	**39.55N–.04**	**142.81E–.06**	**13–10**	**4.4b**	**87**	**1-89**
NIED	III	28 14 44 00	39.60N	142.90E	8	4.2W		**¶602699498**
JMA	III	28 14 44 54.1–.10	39.57N	142.91E	20–2	4.4		
NEIC	III	28 14 44 59.2–.26	39.59N	142.77E	35	4.5b		
IDC	III	28 14 45 01.1–2.1	39.51N	142.80E	58–19	4.2,4.1		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ47.00000°,λ-110.00000°. NP2:ϕ_s25.00000°,δ47.00000°,λ-70.00000°. $M_0$2.23000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.2km az=138.0.
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=131.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 14 50 56.1–3.2**	**38.40N–.05**	**142.24E–.09**	**2–19**	**3.8b**	**27**	**1-76**
NIED	III	28 14 50 00	38.40N	142.20E	23	3.8W		**¶16475423**
IDC	III	28 14 50 55.7–.87	38.35N	142.23E	0	3.9,3.9L		
JMA	III	28 14 50 58.9–.10	38.45N	142.24E	28–2	4.2,3.9L		
NEIC	III	28 14 51 01.7–1.1	38.36N	142.22E	43–10	4.0b,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ17.00000°,λ-51.00000°. NP2:ϕ_s263.00000°,δ77.00000°,λ-101.00000°. $M_0$6.05000×10^{14}
IDC Error ellipse: s-maj=32.2km s-min=17.2km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=8.0km az=111.0.

(227) Eastern Honshu

ISC	**III**	**28 14 53 51.2–1.2**	**37.00N–.03**	**140.77E–.05**	**8–8**		**18**	**0-57**
IDC	III	28 14 53 49.5–2.4	36.97N	140.86E	0	3.7,3.5b		**¶602699492**
ISCJB	III	28 14 53 50.3–.93	37.00N–.03	140.82E–.07	10–5	3.6b,3.5b		
JMA	III	28 14 53 51.4	37.00N	140.72E	7–1	3.4,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=31.7km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.1km az=10.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s48.00000°,δ55.00000°,λ-94.00000°. NP2:ϕ_s235.00000°,δ35.00000°,λ-85.00000°. Principal axes: T Plg10.0000°,Azm141.0000°; N Plg3.0000°,Azm50.0000°; P Plg80.0000°,Azm304.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**28 15 06 12.4–1.3**	**36.02N–.06**	**141.1E–.10**	**31**	**3.4b**	**12**	**0-60**
NIED	III	28 15 06 00	36.00N	141.10E	17	3.4W		**¶600570213**
IDC	III	28 15 06 06.3–2.7	36.31N	141.46E	0	3.5,3.4b		
JMA	III	28 15 06 11.7–.10	35.98N	141.13E	34–2	3.5,3.4b		
ISCJB	III	28 15 06 11.4–1.0	35.99N–.06	141.1E–.10	31	3.3b,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ12.00000°,λ66.00000°. NP2:ϕ_s190.00000°,δ79.00000°,λ95.00000°. $M_0$1.65000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

(227) Eastern Honshu

ISC	**III**	**28 15 13 01.6–.93**	**37.04N–.04**	**140.71E–.05**	**10–7**	**3.5b**	**20**	**0-57**
IDC	III	28 15 12 59.2–1.9	37.17N	140.96E	0	3.6,3.4		**¶17198965**
ISCJB	III	28 15 13 00.7–1.1	37.05N–.03	140.95E–.08	10–4	3.4b,3.4		
JMA	III	28 15 13 02.9	37.05N	140.78E	7–1	3.3,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=26.7km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.6km az=5.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s196.00000°,δ71.00000°,λ-82.00000°. NP2:ϕ_s353.00000°,δ20.00000°,λ-111.00000°. Principal axes: T Plg26.0000°,Azm280.0000°; N Plg7.0000°,Azm14.0000°; P Plg63.0000°,Azm118.0000°

(228) Near east coast of eastern Honshu

ISC	**III**	**28 16 30 55.6–1.9**	**38.23N–.05**	**141.9E–.10**	**43–17**	**3.7b**	**24**	**0-62**
NIED	III	28 16 30 00	38.30N	141.80E	59	3.7W		**¶600570274**
IDC	III	28 16 30 47.8–1.9	38.37N	142.42E	0	3.8,3.7		
ISCJB	III	28 16 30 54.4–1.3	38.21N–.04	141.9E–.10	52–9	4.7s,3.7b		
JMA	III	28 16 30 56.6–.10	38.27N	141.79E	47–1	4.2,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ47.00000°,λ-28.00000°. NP2:ϕ_s340.00000°,δ70.00000°,λ-133.00000°. $M_0$3.73000×10^{14}
IDC Error ellipse: s-maj=47.3km s-min=21.1km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=19.2km s-min=6.8km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 16 41 40.3–.82**	**36.67N–.04**	**141.19E–.07**	**32**	**3.7b**	**34**	**1-74**
NIED	III	28 16 41 00	36.70N	141.10E	44	3.6W		**¶600570285**
IDC	III	28 16 41 34.6–1.1	36.68N	141.37E	0	3.9,3.8		
ISCJB	III	28 16 41 38.2–.58	36.65N–.04	141.34E–.05	32	3.7b,3.8		
JMA	III	28 16 41 41.9–.10	36.70N	141.08E	45–1	3.7,3.8		
NEIC	III	28 16 41 42.3–1.5	36.62N	141.18E	55–11	4.3b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ44.00000°,λ126.00000°. NP2:ϕ_s189.00000°,δ56.00000°,λ61.00000°. $M_0$2.80000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=19.8km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.1km az=18.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=11.4km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 17 22 02.8–1.0**	**36.71N–.04**	**140.62E–.08**	**10–6**	**3.5b**	**17**	**0-60**
IDC	III	28 17 22 01.4–1.1	36.66N	140.56E	0	3.7,3.5		**¶17198978**
ISCJB	III	28 17 22 01.8–.91	36.66N–.04	140.71E–.09	17–5	3.5b,3.5		
JMA	III	28 17 22 03.0	36.71N	140.62E	7–1	3.2,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=21.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=5.9km az=22.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 18 22 39.5–1.0**	**36.35N–.08**	**140.96E–.09**	**32**	**3.6b**	**21**	**1-147**
NIED	III	28 18 22 00	36.30N	140.80E	23	3.5W		**¶602698445**
IDC	III	28 18 22 32.9–1.2	36.61N	141.63E	0	3.8L,3.6		
ISCJB	III	28 18 22 37.8–.79	36.34N–.06	141.03E–.07	32	3.6b,3.6		
NEIC	III	28 18 22 38.4–1.1	36.45N	141.31E	35	4.3b,3.6		
JMA	III	28 18 22 40.2–.10	36.32N	140.83E	41–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ18.00000°,λ143.00000°. NP2:ϕ_s30.00000°,δ79.00000°,λ75.00000°. $M_0$2.08000×10^{14}
IDC Error ellipse: s-maj=38.0km s-min=19.9km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=37.9.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=15.5km az=55.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**28 20 01 35.6–.10**	**36.18N**	**141.23E**	**30–2**	**3.9**		
NIED	III	28 20 01 00	36.20N	141.20E	8	3.4W		**¶600570501**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ31.00000°,λ-121.00000°. NP2:ϕ_s38.00000°,δ64.00000°,λ-73.00000°. $M_0$1.28000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**III**	**28 21 01 50.1–1.6**	**37.41N–.03**	**141.32E–.06**	**6–10**	**3.4b**	**28**	**1-74**
NIED	III	28 21 01 00	37.40N	141.30E	32	3.5W		**¶17198992**
ISCJB	III	28 21 01 50.2–.94	37.40N–.03	141.41E–.07	23–6	3.4b		
JMA	III	28 21 01 51.9–.10	37.44N	141.30E	28–1	3.8		
IDC	III	28 21 01 58.9–3.0	37.24N	140.95E	75–27	3.5,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ42.00000°,λ-28.00000°. NP2:ϕ_s245.00000°,δ72.00000°,λ-128.00000°. $M_0$2.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.9km az=7.7.
JMA Event type fe.
IDC Error ellipse: s-maj=32.7km s-min=15.7km az=76.0.

(229) Off east coast of Honshu

ISC	**III**	**28 21 34 36.7–3.5**	**37.72N–.05**	**142.40E–.06**	**14–22**	**3.5b**	**36**	**1-146**
NIED	III	28 21 34 00	37.70N	142.30E	41	3.7W		**¶17198995**
JMA	III	28 21 34 38.9–.20	37.73N	142.31E	33–3	4.1		
IDC	III	28 21 34 42.2–2.9	37.58N	142.28E	60–26	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ8.00000°,λ-154.00000°. NP2:ϕ_s18.00000°,δ86.00000°,λ-82.00000°. $M_0$4.71000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=14.4km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 22 00 39.1–2.0**	**37.25N–.06**	**141.65E–.10**	**27–12**	**3.6b**	**20**	**1-57**
IDC	III	28 22 00 32.7–2.4	37.24N	142.20E	0	3.6,3.6b		**¶17198997**
ISCJB	III	28 22 00 40.8–1.8	37.28N–.06	141.6E–.10	33–8	3.6b,3.6b		
JMA	III	28 22 00 42.8–.10	37.29N	141.35E	50–1	3.5,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=61.7km s-min=29.9km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=7.5km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(224) Hokkaido region

ISC	**III**	**28 22 12 03.8–.75**	**42.33N–.06**	**143.01E–.05**	**62–6**	**3.8b**	**33**	**0-86**
NIED	III	28 22 12 00	42.30N	143.00E	56	3.8W		**¶17199003**
ISCJB	III	28 22 12 02.8–.50	42.31N–.06	143.02E–.06	70–3	3.7b		
JMA	III	28 22 12 04.3–.10	42.35N	142.99E	55–1	3.6		
IDC	III	28 22 12 07.3–2.7	42.31N	142.89E	95–25	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ22.00000°,λ123.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ77.00000°. $M_0$6.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=158.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=18.7km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**28 23 51 31.0–.86**	**39.36N–.04**	**142.17E–.06**	**52–7**	**4.6b,3.6s**	**150**	**0-145**
NIED	III	28 23 51 00	39.30N	142.00E	53	4.5W,3.6s		**¶16375927**
BJI	III	28 23 51 22.8	39.13N	142.64E	33	4.8b,4.8b		
ISCJB	III	28 23 51 30.2–.47	39.35N–.03	142.07E–.05	59–3	4.6b,3.5s		
JMA	III	28 23 51 31.1–.10	39.34N	142.05E	49–1	4.3,3.5s		
NEIC	III	28 23 51 33.2–.75	39.30N	141.98E	73–7	4.9b,3.5s		
IDC	III	28 23 51 33.8–2.1	39.36N	141.97E	75–18	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ23.00000°,λ73.00000°. NP2:ϕ_s29.00000°,δ68.00000°,λ97.00000°. $M_0$6.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.2km az=24.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=132.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.3km s-min=11.4km az=128.0.

(134) Off coast of central Chile

ISC	**III**	**28 23 57 50.9–.54**	**33.82S–.03**	**72.02W–.04**	**17–2**	**5.1b,4.5s**	**760**	**1-176**
NEIC	III	28 23 57 47.5	33.83S	72.04W	12	5.1b,4.7L		**¶16375928**
GCMT	III	28 23 57 47.5–.30	33.69S	72.36W	33–0	5.1W,4.7L		
IDC	III	28 23 57 48.2–.43	33.71S	71.98W	0	5.0,4.8L		
ISCJB	III	28 23 57 52.0–.13	33.79S–.02	72.13W–.03	33	5.0b,4.6s		
MOS	III	28 23 57 52.7–.96	33.78S	72.13W	33	5.3b,4.6s		
GUC	III	28 23 57 52.7–.44	33.83S	72.04W	12–6	4.7L,4.6s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Navidad, Pichilemu, San Antonio and Santo Domingo; [III] at Casablanca, El Quisco, Maule, Talca, Valparaiso and Vina del Mar; [II] at San Clemente, Santiago and Tiltil. Also felt at Curico. After GUC.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c56; s52,c70; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.27±.20 $M_{\theta\theta}$0.12±.13; $M_{\phi\phi}$-4.39±.13; $M_{r\theta}$0.32±.15; $M_{\theta\phi}$0.14±.12; $M_{\phi r}$-1.98±.17; Best double couple: NP1:ϕ_s175.00000°,δ57.00000°,λ86.00000°. NP2:ϕ_s2.00000°,δ33.00000°,λ96.00000°. Principal axes: T 4.7190,Plg77.0000°,Azm73.0000°; N 0.1150,Plg3.0000°,Azm177.0000°; P -4.8290,Plg12.0000°,Azm268.0000° $M_0$4.77400×10^{16}
IDC Error ellipse: s-maj=19.4km s-min=12.5km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=32.2.
MOS Error ellipse: s-maj=18.9km s-min=7.6km az=102.6.
GUC Error ellipse: s-maj=1.5km s-min=4.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 00 22 32.3–.88**	**38.43N–.06**	**142.26E–.10**	**21–6**	**4.0s,3.7b**	**28**	**1-89**
NIED	III	29 00 22 00	38.40N	142.30E	20	4.0W,3.7b		**¶602702741**
IDC	III	29 00 22 28.9–.73	38.40N	142.29E	0	3.9,3.7		
ISCJB	III	29 00 22 31.5–1.3	38.39N–.05	142.31E–.06	28–8	4.0s,3.7b		
JMA	III	29 00 22 32.2–.10	38.42N	142.27E	30–2	4.0,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ31.00000°,λ-57.00000°. NP2:ϕ_s310.00000°,δ64.00000°,λ-108.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=21.4km s-min=17.5km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.6km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(134) Off coast of central Chile

ISC	**III**	**29 01 51 08.4–1.8**	**33.77S–.04**	**72.07W–.07**	**16–10**	**4.2b,3.3s**	**42**	**1-154**
IDC	III	29 01 51 06.5–1.3	33.76S	71.88W	0	4.4L,4.2		**¶16475600**
GUC	III	29 01 51 08.5–.66	33.79S	72.06W	24–8	4.2L,4.2		
NEIC	III	29 01 51 08.0	33.79S	72.06W	24	4.2L,4.1b		
ISCJB	III	29 01 51 08.5–.95	33.76S–.03	72.26W–.05	32–7	4.0b,3.3s		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Talca and [II] at El Quisco, Paredones, Pencahue, Pichilemu, San Antonio, Santiago, Santo Domingo, Valparaiso and Vina del Mar. After GUC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 02 24 02.6–1.9**	**38.98N–.05**	**142.46E–.07**	**16–10**	**3.9b**	**43**	**1-149**
NIED	III	29 02 24 00	39.00N	142.50E	35	4.1W		**¶17199017**
JMA	III	29 02 24 04.0–.10	39.03N	142.46E	33–2	4.1		
IDC	III	29 02 24 08.4–2.5	38.97N	142.39E	63–23	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ36.00000°,λ-118.00000°. NP2:ϕ_s151.00000°,δ59.00000°,λ-71.00000°. $M_0$1.81000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=14.0km az=113.0.

(134) Off coast of central Chile

ISC	**III**	**29 02 30 58.4–1.6**	**33.79S–.04**	**72.15W–.07**	**7–10**		**33**	**1-121**
IDC	III	29 02 30 56.6–1.2	33.79S	71.91W	0	4.1L,3.9		**¶16475602**
ISCJB	III	29 02 30 59.3–1.1	33.78S–.03	72.20W–.07	25–9	3.8s,3.6b		
NEIC	III	29 02 31 00.0	33.82S	72.10W	23	3.8L,3.6b		
GUC	III	29 02 31 00.1–.54	33.82S	72.10W	23–8	3.8L,3.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=51.7km s-min=30.3km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=11.3.
NEIC Event type fe. Felt [II] at El Quisco, San Antonio and Santo Domingo. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=4.2km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**29 03 25 50.9–.10**	**37.41N**	**141.62E**	**42–2**	**3.7**		
NIED	III	29 03 25 00	37.40N	141.60E	32	3.5W		**¶600570882**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ65.00000°,λ-23.00000°. NP2:ϕ_s288.00000°,δ69.00000°,λ-153.00000°. $M_0$1.88000×10^{14}

(229) Off east coast of Honshu

ISC	**III**	**29 03 32 24.2–.94**	**40.02N–.04**	**143.42E–.04**	**26–6**	**4.7b,4.1s**	**233**	**1-146**
NIED	III	29 03 32 00	40.10N	143.40E	17	4.5W,4.1s		**¶16392133**
IDC	III	29 03 32 20.0–.56	39.94N	143.44E	0	4.4,4.3		
JMA	III	29 03 32 22.2–.20	40.05N	143.37E	18–4	4.5,4.3		
ISCJB	III	29 03 32 23.0–.94	39.95N–.03	143.41E–.03	30–6	4.7b,4.1s		
BJI	III	29 03 32 23.7	39.78N	143.15E	17	4.9b,4.6b		
NEIC	III	29 03 32 25.3–.56	39.94N	143.40E	36–5	4.7b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ18.00000°,λ144.00000°. NP2:ϕ_s329.00000°,δ80.00000°,λ76.00000°. $M_0$6.51000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=12.3km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.0km az=154.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=147.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 04 11 48.3–3.1**	**38.52N–.08**	**142.1E–.20**	**23–18**		**17**	**1-44**
IDC	III	29 04 11 30.6–7.8	38.36N	144.00E	0	3.7,3.7		**¶600570931**
JMA	III	29 04 11 50.1–.10	38.57N	142.07E	44–1	3.7,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=127.8km s-min=56.6km az=120.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 04 20 59.2–1.4**	**36.79N–.07**	**141.05E–.10**	**45–9**	**3.5b**	**20**	**0-90**
NIED	III	29 04 20 00	36.80N	141.00E	50	3.6W		**¶600570940**
ISCJB	III	29 04 20 58.5–1.0	36.78N–.06	141.06E–.09	52–6	3.5b		
JMA	III	29 04 20 59.7–.10	36.79N	140.99E	48–1	3.5		
IDC	III	29 04 21 04.5–3.7	36.71N	140.65E	90–30	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ18.00000°,λ114.00000°. NP2:ϕ_s29.00000°,δ74.00000°,λ83.00000°. $M_0$2.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=8.4km az=29.4.
JMA Event type fe.
IDC Error ellipse: s-maj=42.6km s-min=23.4km az=70.0.

(135) Near coast of central Chile

ISC	**III**	**29 05 08 48.9–.52**	**34.77S–.03**	**71.73W–.05**	**52–4**	**4.7b,3.8s**	**424**	**0-176**
GUC	III	29 05 08 47.6–.57	34.78S	71.72W	48–3	5.2L,3.8s		**¶16392134**
SJA	III	29 05 08 48.7–.63	34.68S	71.87W	89–40	4.9W,4.9L		
IDC	III	29 05 08 48.8–.66	34.81S	71.51W	49–5	4.7,4.5		
ISCJB	III	29 05 08 48.5–.36	34.83S–.03	71.68W–.05	62–3	4.8b,4.5		
NEIC	III	29 05 08 50.9–.73	34.75S	71.43W	65–6	4.7b,4.5		

ISC Event type fe.
GUC Error ellipse: s-maj=1.6km s-min=2.8km az=-1.0.
SJA Error ellipse: s-maj=5.4km s-min=17.1km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=13.8km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=6.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=74.0. Felt [III] at Rancagua and [II] at Santiago. Also felt at Curico, Paine, Penaflor, San Bernardo, San Vicente, Talca and Vina del Mar.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 05 16 13.6–2.4**	**36.49N–.07**	**141.22E–.10**	**25–14**		**20**	**1-57**
NIED	III	29 05 16 00	36.60N	141.00E	50	3.5W		**¶17199033**
ISCJB	III	29 05 16 15.4–1.4	36.53N–.06	141.1E–.10	39–13	3.4b		
JMA	III	29 05 16 16.6–.10	36.57N	141.00E	47–1	3.5		
IDC	III	29 05 16 17.9–6.9	36.23N	141.02E	53–55	3.4,3.4L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ28.00000°,λ92.00000°. NP2:ϕ_s30.00000°,δ62.00000°,λ89.00000°. $M_0$1.94000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=7.6km az=33.3.
JMA Event type fe.
IDC Error ellipse: s-maj=51.5km s-min=29.6km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 05 24 15.5–.85**	**35.89N–.05**	**140.94E–.08**	**31**	**3.9b**	**17**	**0-148**
IDC	III	29 05 24 10.2–.93	35.61N	141.18E	0	4.0,3.8		**¶600571011**
ISCJB	III	29 05 24 14.7–.72	35.95N–.05	141.02E–.07	31	3.8b,3.8		
JMA	III	29 05 24 15.9–.10	35.86N	140.90E	38–1	3.4,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=36.4km s-min=19.7km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.8km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 07 04 57.6–.47**	**37.47N–.03**	**141.33E–.04**	**28–3**	**4.6b,3.9s**	**234**	**1-147**
NIED	III	29 07 04 00	37.40N	141.40E	29	4.2W,3.9s		**¶16375935**
JMA	III	29 07 04 56.9–.10	37.45N	141.37E	31–2	4.3,3.9s		
BJI	III	29 07 04 56.2	37.40N	141.62E	42	4.9b,4.7b		
MOS	III	29 07 04 57.1–.99	37.49N	141.30E	37	4.8b,4.7b		
ISCJB	III	29 07 04 57.4–.43	37.45N–.02	141.30E–.04	39–3	4.6b,4.0s		
IDC	III	29 07 04 57.6–.51	37.47N	141.27E	27–2	4.4,4.3		
NEIC	III	29 07 05 00.2–.47	37.50N	141.22E	47–4	4.8b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ-15.00000°. NP2:ϕ_s251.00000°,δ84.00000°,λ-113.00000°. $M_0$2.48000×10^{15}
JMA Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=5.4km az=91.4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=22.6.
IDC Error ellipse: s-maj=12.0km s-min=10.7km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=128.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 07 06 53.8–1.9**	**39.47N–.06**	**142.5E–.10**	**20–13**	**4.2b**	**23**	**1-118**
IDC	III	29 07 06 50.6–1.2	39.37N	142.55E	0	4.0,3.9b		**¶16475586**
JMA	III	29 07 06 53.6–.10	39.47N	142.54E	23–2	4.2,3.9b		
ISCJB	III	29 07 06 54.0–1.3	39.46N–.06	142.53E–.10	34–11	4.0b,3.3s		
NEIC	III	29 07 06 56.5–1.6	39.39N	142.61E	46–15	4.2b,3.3s		

ISC Event type se.
IDC Error ellipse: s-maj=31.6km s-min=26.7km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=9.6km az=18.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=12.0km az=128.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 07 14 39.2–.95**	**35.80N–.04**	**140.84E–.07**	**11–6**	**3.4b**	**18**	**0-79**
NIED	III	29 07 14 00	35.80N	140.90E	8	3.5W		**¶17199042**
IDC	III	29 07 14 37.1–1.0	35.64N	140.84E	0	3.7,3.5		
ISCJB	III	29 07 14 38.1–1.1	35.85N–.04	140.94E–.07	8–7	3.3b,3.5		
JMA	III	29 07 14 39.3–.10	35.81N	140.86E	9–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ46.00000°,λ-55.00000°. NP2:ϕ_s156.00000°,δ54.00000°,λ-121.00000°. $M_0$2.05000×10^{14}
IDC Error ellipse: s-maj=28.4km s-min=23.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.5km az=0.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 07 40 44.5–1.6**	**36.70N–.05**	**140.7E–.10**	**7–8**	**3.6b**	**13**	**0-64**
IDC	III	29 07 40 43.2–2.1	36.65N	140.66E	0	3.7,3.6		**¶17199044**
ISCJB	III	29 07 40 43.2–1.3	36.67N–.07	140.8E–.10	11–5	3.5s,3.4b		
JMA	III	29 07 40 44.8	36.71N	140.64E	6–1	3.2,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=17.4km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=8.4km az=33.1.
JMA Event type fe.

(221) Kuril Islands

ISC	**III**	**29 08 28 35.4–.55**	**45.47N–.04**	**146.35E–.04**	**46–4**	**4.9b,4.2s**	**999**	**1-154**
NIED	III	29 08 28 00	45.30N	146.40E	11	4.8W,4.2s		**¶16375937**
IDC	III	29 08 28 28.3–.45	45.40N	146.44E	0	4.7,4.6		
MOS	III	29 08 28 31.7–1.2	45.37N	146.35E	36	5.1b,4.2s		
SKHL	III	29 08 28 32.2–.60	45.35N	146.53E	47–4	5.6b,5.5s		
ISCJB	III	29 08 28 32.5–.51	45.49N–.03	146.37E–.02	35–4	4.9b,4.2s		
BJI	III	29 08 28 34.2	45.48N	146.26E	48	5.0b,4.9b		
NEIC	III	29 08 28 34.6–.45	45.46N	146.29E	40–4	5.0b,4.9b		
JMA	III	29 08 28 34.1–.30	45.35N	146.45E	0	4.8,4.9b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ44.00000°,λ2.00000°. NP2:ϕ_s223.00000°,δ89.00000°,λ134.00000°. $M_0$1.76000×10^{16}
IDC Error ellipse: s-maj=13.6km s-min=11.6km az=147.0.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=98.5. Felt (II-III) at Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (II-III) at Kurilsk.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.6km az=171.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=163.0. Felt [III] at Kuril'sk.
JMA Error ellipse: s-maj=2.2km s-min=2.3km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 09 23 45.1–1.7**	**39.21N–.05**	**142.35E–.08**	**29–11**	**3.9b**	**33**	**1-88**
NIED	III	29 09 23 00	39.20N	142.40E	32	4.0W		**¶17199054**
JMA	III	29 09 23 44.9–.10	39.23N	142.40E	33–1	3.9		
ISCJB	III	29 09 23 45.4–.95	39.22N–.04	142.35E–.10	46–8	3.8b,3.1s		
IDC	III	29 09 23 50.1–2.4	39.14N	142.25E	77–22	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ31.00000°,λ-72.00000°. NP2:ϕ_s191.00000°,δ61.00000°,λ-101.00000°. $M_0$1.30000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.6km az=10.0.
IDC Error ellipse: s-maj=16.8km s-min=14.8km az=91.0.

(43) Southern California

ISC	**III**	**29 10 43 23.7–1.0**	**33.18N–.02**	**116.74W–.02**	**9–8**		**103**	**0-8**
ISCJB	III	29 10 43 23.9–.34	33.20N–.01	116.75W–.02	13–2			**¶16553294**
ECX	III	29 10 43 24.9–.64	33.22N	116.76W	9	3.8L,3.6		
NEIC	III	29 10 43 24.7	33.23N	116.76W	11	3.7L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.1km az=137.8.
ECX Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type fe. Felt [IV] at Laguna Beach, [III] at Whittier and [II] in much of Orange, San Diego and western Riverside Counties. Also felt in parts of Los Angeles County. After PAS.

(246) Southwestern Ryukyu Islands

ISC	**III**	**29 10 48 21.2–.44**	**23.23N–.03**	**124.63E–.03**	**31–2**	**5.2b,5.2s**	**586**	**1-166**
NIED	III	29 10 48 00	23.30N	124.60E	23	5.3W,5.2s		**¶16388277**
IDC	III	29 10 48 16.6–.39	23.22N	124.62E	0	5.0,5.0		
ISCJB	III	29 10 48 17.4–.67	23.19N–.01	124.60E–.02	15–4	5.2s,5.1b		
GCMT	III	29 10 48 18.2–.30	23.14N	124.58E	12	5.4W,5.1b		
NEIC	III	29 10 48 18.2–.14	23.19N	124.56E	10	5.3b,5.1b		
BKK	III	29 10 48 18.5–.50	23N–5.0	125E–7.0	10	6.0,5.5		
JMA	III	29 10 48 19.4–.20	23.21N	124.63E	39	5.2,5.5		
MOS	III	29 10 48 20.0–.90	23.21N	124.58E	33	5.4b,5.5		
BJI	III	29 10 48 20.1	23.34N	124.55E	27	5.2b,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ67.00000°,λ-4.00000°. NP2:ϕ_s243.00000°,δ87.00000°,λ-157.00000°. $M_0$9.34000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=10.4km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=14.3.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c34; s53,c74; Duration: 1♯2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.86±.06 $M_{\theta\theta}$1.46±.05; $M_{\phi\phi}$-0.60±.07; $M_{r\theta}$0.05±.13; $M_{\theta\phi}$-0.08±.05; $M_{\phi r}$-0.52±.16; Best double couple: NP1:ϕ_s304.00000°,δ58.00000°,λ-43.00000°. NP2:ϕ_s60.00000°,δ55.00000°,λ-139.00000°. Principal axes:
T 1.4650,Plg2.0000°,Azm3.0000°; N -0.2030,Plg38.0000°,Azm94.0000°
; P -1.2630,Plg52.0000°,Azm270.0000° $M_0$1.36400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=3.3km az=120.0. Recorded [1 JMA] on Iriomote-jima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.0km az=112.2.

(229) Off east coast of Honshu

ISC	**III**	**29 10 54 34.0–.34**	**37.44N–.02**	**142.35E–.02**	**20–1**	**6.1s,6.0b**	**2166**	**1-161**
NIED	III	29 10 54 00	37.40N	142.40E	23	6.2W,6.0b		**¶602707319**
BJI	III	29 10 54 28.7	37.40N	142.45E	15	6.6s,6.5		
JMA	III	29 10 54 30.4–.20	37.41N	142.47E	13–3	6.6,6.5		
IDC	III	29 10 54 30.6–.29	37.46N	142.35E	0	6.1,6.1s		
ISCJB	III	29 10 54 31.0–.50	37.40N–.01	142.34E–.01	10–3	6.2s,6.0b		
NEIC	III	29 10 54 33.2–.07	37.40N	142.29E	15	6.2,6.1W		
GCMT	III	29 10 54 33.2–.10	37.47N	142.37E	18–0	6.2W,6.1W		
NEIC	III	29 10 54 33.0–.00	37.21N	142.65E	18	6.2W,6.1W		
MOS	III	29 10 54 34.2–1.0	37.64N	142.36E	33	6.2b,6.1s		
NEIC	III	29 10 54 50.1–.00	37.46N	141.75E	10	6.2b,6.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ46.00000°,λ-130.00000°. NP2:ϕ_s224.00000°,δ57.00000°,λ-56.00000°. $M_0$1.99000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=164.9.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=140.0. Felt [III] at Tokyo. Also felt at Ageo, Ayase, Kawasaki, Misawa, Musashimurayama, Narita and Otawara. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution.
$M_0$3.10000×10^{18} Moment Tensor Solution. s67 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.49 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$1.68 $M_{r\theta}$0.98 $M_{\theta\phi}$0.52 $M_{\phi r}$0.48 Best double couple: NP1:ϕ_s351.00000°,δ38.00000°,λ-131.00000°. NP2:ϕ_s219.00000°,δ62.00000°,λ-63.00000°. Principal axes:
T 1.9700,Plg13.0000°,Azm289.0000°; N 0.0500,Plg24.0000°,Azm25.0000°
; P -2.0200,Plg63.0000°,Azm174.0000° $M_0$2.00000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s50.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s230.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm320.0000°
; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm140.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c315; s145,c563;Duration: 3♯1 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.64±.01 $M_{\theta\theta}$0.13±.01; $M_{\phi\phi}$1.51±.01; $M_{r\theta}$1.55±.03; $M_{\theta\phi}$0.77±.01; $M_{\phi r}$0.90±.02; Best double couple: NP1:ϕ_s228.00000°,δ69.00000°,λ-70.00000°. NP2:ϕ_s3.00000°,δ29.00000°,λ-131.00000°. Principal axes: T 2.4290,Plg21.0000°,Azm303.0000°
; N 0.1510,Plg18.0000°,Azm41.0000°; P -2.5800,Plg61.0000°,Azm168.0000°
$M_0$2.50500×10^{18}
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.29 $M_{\theta\theta}$0.27 $M_{\phi\phi}$1.02 $M_{r\theta}$1.31 $M_{\theta\phi}$0.45 $M_{\phi r}$0.93 Best double couple: NP1:ϕ_s227.00000°,δ72.00000°,λ-77.00000°. NP2:ϕ_s11.00000°,δ22.00000°,λ-123.00000°. Principal axes: T 1.9100,Plg25.0000°,Azm306.0000°; N 0.2400,Plg12.0000°,Azm42.0000°
; P -2.1500,Plg61.0000°,Azm155.0000° $M_0$2.00000×10^{18}
MOS Error ellipse: s-maj=8.4km s-min=4.5km az=105.6.
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.45 $M_{\theta\theta}$0.21 $M_{\phi\phi}$1.24 $M_{r\theta}$-0.64 $M_{\theta\phi}$0.70 $M_{\phi r}$0.28 Best double couple: NP1:ϕ_s185.00000°,δ49.00000°,λ-122.00000°. NP2:ϕ_s49.00000°,δ50.00000°,λ-59.00000°. Principal axes:
T 1.5900,Plg1.0000°,Azm117.0000°; N 0.1600,Plg23.0000°,Azm208.0000°
; P -1.7500,Plg67.0000°,Azm25.0000° $M_0$1.70000×10^{18}

(228) Near east coast of eastern Honshu
JMA III 29 11 02 26.0–.10 37.37N 141.31E 28–1 3.8 ¶602701495
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA III 29 11 14 02.8–.10 36.19N 140.01E 50–1 3.8 ¶602701483
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ75.00000°,λ85.00000°. NP2:ϕ_s241.00000°,δ16.00000°,λ110.00000°. Principal axes: T Plg59.0000°,Azm303.0000°; N Plg5.0000°,Azm42.0000°; P Plg30.0000°,Azm135.0000°
(123) Northern Chile
ISC III 29 11 49 34.9–.65 20.06S–.03 69.99W–.06 61–6 4.7b 423 0-166
IDC III 29 11 49 27.4–.80 19.94S 70.11W 0 4.7L,4.6 **¶16392140**
ISCJB III 29 11 49 34.0–.28 20.03S–.02 69.86W–.05 70–3 4.6b,4.6
NEIC III 29 11 49 34.0 20.10S 69.95W 61 4.8b,4.6
GUC III 29 11 49 34.8–.56 20.10S 69.96W 61–3 4.8L,4.6
SCB III 29 11 49 39.7–.66 19.83S 69.42W 95 4.2L,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=25.3km s-min=19.5km az=33.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.7km az=177.6.
NEIC Event type fe. Felt [IV] at Alto Hospicio, Huara, Iquique and Mamina; [III] at Camina, La Tirana, Pica, Pozo Almonte and Quillagua; [II] at Arica, Cuya and Pisagua. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=6.0km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=19.4km s-min=5.4km az=70.0.
(228) Near east coast of eastern Honshu
JMA III 29 12 10 33.9–.10 36.48N 141.02E 46–1 3.6 ¶602701361
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 29 12 24 53.0–.79 36.51N–.04 140.79E–.06 46–7 4.3b 67 0-117
NIED III 29 12 24 00 36.50N 140.70E 56 4.4W **¶16392141**
BJI III 29 12 24 50.3 36.16N 140.78E 50 4.6s,4.5b
ISCJB III 29 12 24 52.2–.41 36.52N–.03 140.78E–.05 55–3 4.2b,4.5b
JMA III 29 12 24 52.8–.10 36.50N 140.74E 51–1 4.2,4.5b
NEIC III 29 12 24 53.9–.64 36.50N 140.75E 55–6 4.6b,4.5b
IDC III 29 12 24 55.0–1.6 36.51N 140.68E 64–15 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ39.00000°,λ1.00000°. NP2:ϕ_s10.00000°,δ90.00000°,λ129.00000°. $M_0$5.29000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=15.6.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=105.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=13.9km s-min=9.8km az=84.0.
(228) Near east coast of eastern Honshu
ISC III 29 14 15 57.4–.49 38.34N–.05 142.72E–.06 24 4.3b 85 1-89
IDC III 29 14 15 53.6–.54 38.35N 142.75E 0 4.2,4.1 **¶16392144**
JMA III 29 14 15 55.1–.20 38.41N 142.74E 19–3 4.3,4.1
ISCJB III 29 14 15 55.7–.36 38.37N–.04 142.73E–.04 24 4.2b,4.1
NEIC III 29 14 15 59.8–.64 38.35N 142.70E 44–5 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.0km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.9km az=160.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=116.0.
(228) Near east coast of eastern Honshu
ISC III 29 14 58 57.0–2.7 38.92N–.06 142.6E–.10 16–13 3.4b 20 1-59
IDC III 29 14 58 52.5–2.9 39.12N 143.14E 0 3.6,3.5b **¶17199075**
ISCJB III 29 14 58 57.0–1.8 38.89N–.05 142.7E–.10 20–9 3.4b,3.5b
JMA III 29 14 58 58.7–.20 38.93N 142.57E 26–2 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=71.2km s-min=30.9km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=7.2km az=12.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(447) Southern Quebec
OTT III 29 16 04 35.5–.14 46.57N 76.96W 20 3.5
NEIC III 29 16 04 35.6 46.57N 76.96W 18 3.5 **¶16389120**
OTT Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. 67km northeast from Deep River, Ontario Western Quebec Seismic Zone.
NEIC Event type fe. Felt [II] at Ottawa, Ontario. Also felt at Cornwall and Toronto. Felt at Montreal, Quebec and at La Fargeville, New York. After OTT.
(228) Near east coast of eastern Honshu
ISC III 29 16 32 31.0–1.0 38.23N–.07 142.20E–.08 30 3.7b 21 1-74
NIED III 29 16 32 00 38.20N 142.10E 50 3.6W **¶17199083**
IDC III 29 16 32 27.2–1.9 38.44N 142.15E 0 3.7,3.7
ISCJB III 29 16 32 29.7–.79 38.29N–.07 142.23E–.07 30 3.6b,3.7
JMA III 29 16 32 32.0–.20 38.25N 142.06E 43–3 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ44.00000°,λ70.00000°. NP2:ϕ_s160.00000°,δ49.00000°,λ108.00000°. $M_0$3.12000×10^{14}
IDC Error ellipse: s-maj=42.6km s-min=27.0km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.4km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(229) Off east coast of Honshu
ISC III 29 16 35 49.0–.42 39.60N–.03 143.60E–.03 26–2 5.3b,5.2s 1344 1-154
NIED III 29 16 35 00 39.70N 143.80E 11 5.4W,5.2s **¶16455783**
JMA III 29 16 35 44.1–.20 39.65N 143.78E 8 5.6,5.2s
IDC III 29 16 35 45.1–.33 39.54N 143.56E 0 5.0,5.0
ISCJB III 29 16 35 46.1–.63 39.62N–.02 143.48E–.02 11–3 5.2b,5.2s
BJI III 29 16 35 47.1 39.57N 143.12E 10 5.6b,5.6s
NEIC III 29 16 35 49.3–.98 39.59N 143.46E 25–7 5.5W,5.3b
GCMT III 29 16 35 49.3–.10 39.64N 143.73E 13–0 5.4W,5.3b
MOS III 29 16 35 49.7–.97 39.83N 143.42E 33 5.6b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ34.00000°,λ65.00000°. NP2:ϕ_s30.00000°,δ60.00000°,λ106.00000°. $M_0$1.31000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=165.9.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.2km az=145.0. Moment Tensor Solution. s52 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$-1.25 $M_{r\theta}$0.75 $M_{\theta\phi}$0.00 $M_{\phi r}$1.61 Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ63.00000°. NP2:ϕ_s19.00000°,δ72.00000°,λ99.00000°. Principal axes: T 2.3900,Plg62.0000°,Azm303.0000°; N -0.3300,Plg9.0000°,Azm196.0000°; P -2.0600,Plg26.0000°,Azm101.0000° $M_0$2.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c160; s130,c265; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.04±.02 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$-0.99±.01; $M_{r\theta}$0.45±.03; $M_{\theta\phi}$-0.27±.01; $M_{\phi r}$1.14±.05; Best double couple: NP1:ϕ_s20.00000°,δ70.00000°,λ94.00000°. NP2:ϕ_s189.00000°,δ21.00000°,λ80.00000°. Principal axes: T 1.6070,Plg65.0000°,Azm296.0000°; N 0.0180,Plg4.0000°,Azm199.0000°; P -1.6260,Plg25.0000°,Azm107.0000° $M_0$1.61700×10^{17}
MOS Error ellipse: s-maj=8.1km s-min=5.1km az=98.3.
(228) Near east coast of eastern Honshu
ISC III 29 16 44 49.8–.72 38.00N–.06 142.36E–.06 14 4.0b 40 1-76
IDC III 29 16 44 47.9–.92 38.04N 142.42E 0 3.9,3.9 **¶16475591**
ISCJB III 29 16 44 48.1–.51 37.99N–.05 142.49E–.05 14 4.0b,3.9
JMA III 29 16 44 51.4–.30 38.11N 142.37E 27–4 4.4,3.9
NEIC III 29 16 44 52.8–.78 38.00N 142.41E 35 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.6km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.6km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=8.7km az=140.0.
(228) Near east coast of eastern Honshu
ISC III 29 16 58 50.4–1.1 36.94N–.03 140.53E–.04 8–9 3.6b 21 0-57
IDC III 29 16 58 49.2–1.9 36.85N 140.55E 0 3.6,3.5 **¶17199088**
ISCJB III 29 16 58 50.5–.81 36.93N–.03 140.61E–.07 15–8 3.4b,3.5
JMA III 29 16 58 50.4 36.94N 140.54E 7–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=36.9km s-min=27.1km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.9km az=2.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s187.00000°,δ64.00000°,λ-94.00000°. NP2:ϕ_s16.00000°,δ26.00000°,λ-82.00000°. Principal axes: T Plg19.0000°,Azm280.0000°; N Plg4.0000°,Azm189.0000°; P Plg71.0000°,Azm88.0000°
(228) Near east coast of eastern Honshu
JMA III 29 17 32 51.2–.20 38.85N 142.46E 34–3 3.6 ¶602701533
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 29 17 39 39.8–2.4 38.36N–.05 142.11E–.08 24–17 3.9b 30 1-146
NIED III 29 17 39 00 38.40N 142.20E 32 3.9W **¶17199092**
JMA III 29 17 39 40.1–.10 38.41N 142.16E 34–2 3.9
ISCJB III 29 17 39 40.6–1.2 38.38N–.05 142.1E–.10 43–11 3.8b
IDC III 29 17 39 42.4–2.6 38.35N 142.08E 44–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ38.00000°,λ-147.00000°. NP2:ϕ_s176.00000°,δ71.00000°,λ-57.00000°. $M_0$8.68000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=7.6km az=9.1.
IDC Error ellipse: s-maj=25.0km s-min=14.3km az=97.0.
(228) Near east coast of eastern Honshu
ISC III 29 17 45 51.7–.58 36.45N–.04 140.93E–.05 37–1 4.4b 129 0-147
NIED III 29 17 45 00 36.50N 140.70E 56 4.4W **¶16389126**
ISCJB III 29 17 45 51.4–.44 36.46N–.03 140.85E–.05 51–3 4.3b,3.6s
MOS III 29 17 45 52.0–.95 36.58N 140.80E 53 4.7b,3.6s
NEIC III 29 17 45 53.1–.52 36.50N 140.80E 48–5 4.4b,3.6s
JMA III 29 17 45 53.0 36.51N 140.73E 52–1 4.1,3.6s
IDC III 29 17 45 54.4–1.6 36.45N 140.72E 60–16 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ34.00000°,λ71.00000°. NP2:ϕ_s348.00000°,δ58.00000°,λ103.00000°. $M_0$3.94000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.3km az=16.7.
MOS Error ellipse: s-maj=10.6km s-min=6.5km az=95.6.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.7km az=121.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s148.00000°,δ48.00000°,λ77.00000°. NP2:ϕ_s347.00000°,δ44.00000°,λ104.00000°. Principal axes: T Plg80.0000°,Azm348.0000°; N Plg10.0000°,Azm157.0000°; P Plg2.0000°,Azm247.0000°
IDC Error ellipse: s-maj=14.2km s-min=10.3km az=87.0.
(228) Near east coast of eastern Honshu
ISC III 29 18 09 28.5–1.6 36.65N–.04 141.93E–.05 13–9 4.4b 134 1-147
NIED III 29 18 09 00 36.70N 141.80E 20 4.2W **¶16392148**
IDC III 29 18 09 26.6–.54 36.65N 141.90E 0 4.2,4.2
ISCJB III 29 18 09 27.5–.00 36.63N–.03 141.96E–.04 17–7 4.3b,3.8s
NEIC III 29 18 09 29.6–1.9 36.68N 141.91E 18–11 4.6b,3.8s
JMA III 29 18 09 30.9–.20 36.70N 141.84E 49–5 4.4,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ11.00000°,λ-62.00000°. NP2:ϕ_s163.00000°,δ80.00000°,λ-95.00000°. $M_0$2.16000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.1km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.3km az=9.8.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
(227) Eastern Honshu
ISC III 29 18 52 07.2–1.0 35.28N–.03 138.72E–.04 16–10 3.3b 16 0-55
JMA III 29 18 52 08.0 35.30N 138.69E 10–1 2.1 **¶17199100**
IDC III 29 18 52 20.4–1.6 35.98N 138.48E 0 3.5,3.4
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=22.2km s-min=17.5km az=93.0.
(460) Wyoming
ISC III 29 19 16 51.1–.72 43.57N–.03 105.29W–.03 0 70 1-62
IDC III 29 19 16 50.0–2.0 43.43N 105.35W 0 4.0b,3.6 **¶17199102**
ISCJB III 29 19 16 50.8–.27 43.56N–.02 105.30W–.03 0 4.4b,3.3s
NEIC III 29 19 16 51.5–.49 43.58N 105.28W 0 3.0L,3.3s
ISC Event type sm.
IDC Error ellipse: s-maj=46.7km s-min=9.6km az=155.0.
ISCJB Event type fm. Error ellipse: s-maj=3.6km s-min=2.6km az=164.8.
NEIC Event type fm. Error ellipse: s-maj=8.0km s-min=6.3km az=154.0. 82 km [51 miles] SSE of Gillette. Suspected Mining explosion.
(228) Near east coast of eastern Honshu
ISC III 29 19 35 25.8–1.2 36.44N–.05 141.20E–.08 32 3.3b 19 1-56
IDC III 29 19 35 18.5–1.4 36.53N 142.06E 0 3.6L,3.5 **¶600572028**
JMA III 29 19 35 24.7–.10 36.42N 141.24E 38–2 3.4,3.5
ISCJB III 29 19 35 24.6–.90 36.39N–.05 141.24E–.07 32 3.3b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA III 29 19 58 05.7–.10 38.35N 141.77E 51–1 3.9 ¶602700620
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 29 20 30 47.2–.59 40.08N–.04 142.81E–.04 28–3 4.7b,4.3s 265 1-146
NIED III 29 20 30 00 40.10N 142.90E 26 4.7W,4.3s **¶16391158**
JMA III 29 20 30 45.9–.20 40.06N 142.88E 24–2 4.3,4.3s
ISCJB III 29 20 30 47.0–.49 40.01N–.03 142.83E–.04 40–3 4.6b,4.2s
MOS III 29 20 30 47.5–.87 40.10N 142.77E 40 4.9b,4.2s
BJI III 29 20 30 48.8 40.08N 142.51E 48 5.0b,4.8b
NEIC III 29 20 30 48.9–.48 40.00N 142.79E 42–4 4.7b,4.8b
IDC III 29 20 30 49.2–1.9 40.01N 142.82E 43–18 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ16.00000°,λ80.00000°. NP2:ϕ_s20.00000°,δ74.00000°,λ93.00000°. $M_0$1.19000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.1km az=37.8.
MOS Error ellipse: s-maj=8.2km s-min=5.0km az=106.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=120.0.
IDC Error ellipse: s-maj=14.3km s-min=11.5km az=101.0.
(228) Near east coast of eastern Honshu
ISC III 29 20 38 31.2–1.9 36.49N–.04 141.25E–.08 24–13 3.6b 24 1-60
NIED III 29 20 38 00 36.50N 141.30E 17 3.5W **¶600572142**
IDC III 29 20 38 27.3–1.1 36.42N 141.42E 0 3.7,3.7L
ISCJB III 29 20 38 29.0–1.3 36.45N–.04 141.44E–.07 23–7 3.5b,3.7L
JMA III 29 20 38 31.6–.10 36.49N 141.28E 46–2 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ15.00000°,λ-120.00000°. NP2:ϕ_s183.00000°,δ77.00000°,λ-82.00000°. $M_0$2.12000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=17.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.5km az=3.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 29 21 04 16.5–1.0 36.30N–.05 140.51E–.07 49–7 3.6b 23 0-56
NIED III 29 21 04 00 36.30N 140.50E 65 3.5W **¶17199113**
IDC III 29 21 04 08.3–2.2 36.52N 140.94E 0 3.6,3.5
ISCJB III 29 21 04 15.6–.71 36.28N–.04 140.51E–.08 58–5 3.4b,3.5
JMA III 29 21 04 16.3–.10 36.27N 140.48E 52–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ12.00000°,λ19.00000°. NP2:ϕ_s68.00000°,δ86.00000°,λ102.00000°. $M_0$2.30000×10^{14}
IDC Error ellipse: s-maj=56.9km s-min=22.8km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.7km az=2.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s62.00000°,δ78.00000°,λ90.00000°. NP2:ϕ_s242.00000°,δ12.00000°,λ90.00000°. Principal axes: T Plg57.0000°,Azm332.0000°; N Plg0.0000°,Azm62.0000°; P Plg33.0000°,Azm152.0000°
(229) Off east coast of Honshu
ISC III 29 21 06 15.4–.65 37.31N–.04 142.55E–.04 17–3 4.7b,4.0s 276 1-146
NIED III 29 21 06 00 37.40N 142.60E 17 4.4W,4.0s **¶600572184**

JMA III 29 21 06 12.3–.30 37.38N 142.56E 7–5 4.6,4.0s
IDC III 29 21 06 13.2–.52 37.33N 142.52E 0 4.3,4.2
BJI III 29 21 06 13.6 37.30N 142.50E 21 4.9b,4.6b
ISCJB III 29 21 06 13.7–.94 37.31N–.03 142.56E–.03 14–5 4.6b,3.9s
MOS III 29 21 06 16.8–1.1 37.34N 142.54E 36 4.9b,3.9s
NEIC III 29 21 06 18.7–.76 37.29N 142.55E 38–7 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ40.00000°,λ-135.00000°. NP2:ϕ_s220.00000°,δ63.00000°,λ-59.00000°. $M_0$4.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=14.2km s-min=12.1km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.8km az=172.4.
MOS Error ellipse: s-maj=9.2km s-min=5.5km az=118.3.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 22 23 32.6–.58**	**36.09N–.04**	**141.39E–.06**	**37–1**	**4.5b,3.5s**	**124**	**1-147**
NIED	III	29 22 23 00	36.10N	141.40E	26	4.3W,3.5s		**¶602700422**
BJI	III	29 22 23 27.7	36.23N	141.49E	25	5.0b,4.6s		
ISCJB	III	29 22 23 31.4–.57	36.08N–.03	141.41E–.05	45–4	4.4b,3.5s		
MOS	III	29 22 23 31.0–.97	36.08N	141.43E	42	4.7b,3.5s		
JMA	III	29 22 23 31.8–.10	36.12N	141.36E	48–2	4.5,3.5s		
NEIC	III	29 22 23 32.6–.87	36.03N	141.44E	41–8	4.6b,3.5s		
IDC	III	29 22 23 33.0–2.5	36.08N	141.37E	40–22	4.1,4.1		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ48.00000°,λ3.00000°. NP2:ϕ_s245.00000°,δ88.00000°,λ138.00000°. $M_0$3.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=0.4.
MOS Error ellipse: s-maj=10.7km s-min=6.3km az=118.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.7km az=74.0.
IDC Error ellipse: s-maj=16.8km s-min=12.9km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**29 22 33 02.5–2.6**	**38.39N–.05**	**142.23E–.07**	**16–15**	**3.9b**	**33**	**1-68**
NIED	III	29 22 33 00	38.40N	142.20E	26	3.8W		**¶602700409**
IDC	III	29 22 33 00.1–.79	38.36N	142.39E	0	3.9,3.8		
ISCJB	III	29 22 33 02.0–1.3	38.42N–.04	142.29E–.07	25–8	3.8b,3.8		
JMA	III	29 22 33 03.4–.20	38.43N	142.21E	33–2	4.5,3.8		
NEIC	III	29 22 33 04.2–3.9	38.42N	142.28E	27–28	4.3b,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ18.00000°,λ-60.00000°. NP2:ϕ_s253.00000°,δ74.00000°,λ-99.00000°. $M_0$5.58000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=14.8km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.0km az=17.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=9.6km az=103.0.

(229) Off east coast of Honshu

ISC	**III**	**29 23 36 51.6–.46**	**37.80N–.04**	**142.64E–.04**	**21–4**	**4.9b,4.5s**	**728**	**1-148**
NIED	III	29 23 36 00	37.70N	142.80E	26	4.7W,4.5s		**¶16391165**
JMA	III	29 23 36 47.2–.40	37.71N	142.76E	7–5	4.9,4.5s		
BJI	III	29 23 36 48.0	37.69N	142.64E	14	5.1b,5.1b		
IDC	III	29 23 36 48.3–.40	37.70N	142.65E	0	4.8,4.7		
NEIC	III	29 23 36 50.6–1.7	37.70N	142.59E	12–10	4.9b,4.7		
ISCJB	III	29 23 36 50.1–.79	37.75N–.03	142.64E–.02	18–5	4.8b,4.5s		
MOS	III	29 23 36 51.7–.79	38.03N	142.59E	21	5.2b,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ35.00000°,λ101.00000°. NP2:ϕ_s27.00000°,δ56.00000°,λ83.00000°. $M_0$1.26000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.2km s-min=10.3km az=130.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=168.3.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=104.3.

(228) Near east coast of eastern Honshu

JMA	**III**	**30 00 45 07.0–.10**	**39.07N**	**142.38E**	**28–1**	**3.5**		
								¶602704397

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 01 38 05.5–1.9**	**38.55N–.06**	**141.9E–.10**	**41–15**		**21**	**0-59**
IDC	III	30 01 37 57.4–2.9	38.69N	142.44E	0	3.6,3.4L		**¶17199140**
NIED	III	30 01 38 00	38.50N	141.80E	41	3.5W,3.4L		
ISCJB	III	30 01 38 05.0–1.1	38.53N–.05	141.9E–.10	50–8	3.2b,3.4L		
JMA	III	30 01 38 05.8–.10	38.54N	141.83E	47–1	3.6,3.4L		

ISC Event type ke.
IDC Error ellipse: s-maj=68.8km s-min=36.7km az=64.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ47.00000°,λ151.00000°. NP2:ϕ_s125.00000°,δ69.00000°,λ47.00000°. $M_0$1.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=7.4km az=19.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 02 31 18.4–1.5**	**39.68N–.04**	**142.2E–.10**	**46–9**	**3.6b**	**28**	**0-60**
IDC	III	30 02 31 09.1–2.7	39.92N	143.00E	0	3.7,3.7b		**¶17199147**
JMA	III	30 02 31 18.9–.10	39.67N	142.13E	48–1	3.5,3.7b		
ISCJB	III	30 02 31 18.1–.96	39.69N–.04	142.1E–.10	55–5	3.5b,3.7b		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**III**	**30 02 50 11.5–.40**	**38.01N–.03**	**143.60E–.03**	**24–2**	**5.0b,4.4s**	**929**	**2-154**
NIED	III	30 02 50 00	38.00N	143.50E	8	4.9W,4.4s		**¶16391172**
ISCJB	III	30 02 50 08.0–.73	37.95N–.02	143.56E–.02	11–4	4.9b,4.4s		
IDC	III	30 02 50 07.6–.40	37.91N	143.63E	0	4.8,4.7		
GCMT	III	30 02 50 10.4–.30	38.03N	143.54E	12	4.9W,4.7		
NEIC	III	30 02 50 10.4–1.6	37.94N	143.56E	16–10	5.0b,4.7		
BJI	III	30 02 50 10.1	38.17N	143.48E	18	5.1b,4.9b		
JMA	III	30 02 50 10.4–.20	38.03N	143.55E	45	4.8,4.9b		
MOS	III	30 02 50 13.4–.89	38.21N	143.51E	39	5.2b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ29.00000°,λ-117.00000°. NP2:ϕ_s223.00000°,δ64.00000°,λ-76.00000°. $M_0$2.14000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=166.1.
IDC Error ellipse: s-maj=13.3km s-min=10.6km az=112.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c43; s88,c139; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.41±.07 $M_{\theta\theta}$0.55±.07; $M_{\phi\phi}$1.86±.06; $M_{r\theta}$0.78±.24; $M_{\theta\phi}$1.15±.05; $M_{\phi r}$1.18±.22; Best double couple: NP1:ϕ_s212.00000°,δ60.00000°,λ-88.00000°. NP2:ϕ_s28.00000°,δ30.00000°,λ-93.00000°. Principal axes: T 2.9050,Plg15.0000°,Azm301.0000°; N -0.1150,Plg2.0000°,Azm31.0000° ; P -2.7880,Plg75.0000°,Azm127.0000° $M_0$2.84600×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=103.0.

(229) Off east coast of Honshu

ISC	**III**	**30 02 54 27.5–.58**	**37.19N–.08**	**142.29E–.06**	**9**	**4.0b**	**43**	**1-146**
NIED	III	30 02 54 00	37.20N	142.30E	8	4.0W		**¶16475764**
IDC	III	30 02 54 25.6–.84	37.08N	142.28E	0	4.2,4.0		
ISCJB	III	30 02 54 25.4–.45	37.09N–.05	142.35E–.04	9	4.0b,4.0		
JMA	III	30 02 54 26.0–.40	37.18N	142.27E	2–4	4.3,4.0		
NEIC	III	30 02 54 31.2–1.2	37.10N	142.19E	38–12	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ62.00000°,λ160.00000°. NP2:ϕ_s81.00000°,δ72.00000°,λ30.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=25.1km s-min=17.2km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=178.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.3km az=210.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 03 45 22.7–.90**	**38.76N–.05**	**142.44E–.08**	**24**	**3.5b**	**23**	**1-76**
NIED	III	30 03 45 00	38.80N	142.60E	23	3.6W		**¶17199152**
ISCJB	III	30 03 45 21.0–.73	38.73N–.05	142.56E–.07	24	3.5b		
JMA	III	30 03 45 21.9–.20	38.78N	142.57E	33–3	3.9		
IDC	III	30 03 45 29.1–4.1	38.64N	142.45E	83–40	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ36.00000°,λ-154.00000°. NP2:ϕ_s195.00000°,δ75.00000°,λ-57.00000°. $M_0$3.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.5km az=38.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=23.2km az=32.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 03 57 14.6–1.4**	**39.24N–.04**	**142.41E–.06**	**28–9**	**4.3b,3.7s**	**99**	**1-145**
NIED	III	30 03 57 00	39.20N	142.40E	32	4.2W,3.7s		**¶16392157**
JMA	III	30 03 57 14.3–.10	39.25N	142.40E	32–1	4.1,3.7s		
ISCJB	III	30 03 57 14.7–.59	39.24N–.03	142.39E–.05	42–5	4.2b,3.6s		
NEIC	III	30 03 57 17.8–.67	39.25N	142.36E	56–6	4.4b,3.6s		
IDC	III	30 03 57 18.4–2.1	39.14N	142.40E	62–19	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ26.00000°,λ-129.00000°. NP2:ϕ_s182.00000°,δ70.00000°,λ-73.00000°. $M_0$2.10000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=21.7.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.2km az=143.0.
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=118.0.

(244) Taiwan

ISC	**III**	**30 04 22 32.2–.36**	**23.92N–.02**	**121.57E–.02**	**21–1**	**4.4b,3.8s**	**262**	**0-100**
NIED	III	30 04 22 00	23.90N	121.50E	8	4.6W,3.8s		**¶16391174**
JMA	III	30 04 22 30.7	23.89N	121.53E	14–2	4.3,3.8s		
TAP	III	30 04 22 31.9	23.94N	121.48E	19–0	4.7L,3.8s		
ISCJB	III	30 04 22 31.7–.19	23.92N–.01	121.58E–.01	26–1	4.3b,3.8s		
NEIC	III	30 04 22 31.5	23.91N	121.55E	23	4.7L,4.7b		
BJI	III	30 04 22 32.1	24.00N	121.45E	20	4.7b,4.4L		
IDC	III	30 04 22 35.9–2.7	23.92N	121.69E	58–25	4.2,4.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ19.00000°,λ42.00000°. NP2:ϕ_s80.00000°,δ77.00000°,λ105.00000°. $M_0$8.34000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=37.5.
NEIC Event type fe. Felt at Hualien and Yungho. Recorded [6 TAP] in Hualien, [4 TAP] in Nantou, [2 TAP] in Yilan and [1 TAP] in Changhua, Taitung and Yunlin. After TAP. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}3.84 $M_{\theta\theta}$-2.36 $M_{\phi\phi}$-1.48 $M_{r\theta}$0.18 $M_{\theta\phi}$-2.43 $M_{\phi r}$-0.92 Best double couple: NP1:ϕ_s217.00000°,δ50.00000°,λ73.00000°. NP2:ϕ_s63.00000° ,δ43.00000°,λ109.00000°. Principal axes: T 4.0600,Plg76.0000°,Azm63.0000° ; N 0.3500,Plg13.0000°,Azm229.0000°; P -4.4100,Plg3.0000°,Azm320.0000° $M_0$4.30000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=12.7km az=62.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 04 33 25.1–3.4**	**36.31N–.09**	**140.84E–.07**	**3–20**	**3.5b**	**20**	**0-65**
NIED	III	30 04 33 00	36.40N	140.90E	56	4.3W		**¶17199155**
JMA	III	30 04 33 28.6–.10	36.40N	140.90E	38–1	3.6		
IDC	III	30 04 33 32.5–3.8	36.30N	140.71E	61–35	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ37.00000°,λ-131.00000°. NP2:ϕ_s333.00000°,δ63.00000°,λ-64.00000°. $M_0$3.23000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=30.4km s-min=25.1km az=140.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 04 45 13.1–1.2**	**38.73N–.06**	**141.9E–.10**	**35**	**3.6b**	**21**	**0-73**
JMA	III	30 04 45 11.6–.10	38.66N	142.04E	46–2	3.5		**¶17199156**
ISCJB	III	30 04 45 11.3–.94	38.70N–.06	142.05E–.09	35	3.5b		
IDC	III	30 04 45 12.3–.99	39.31N	141.25E	0	3.6,3.6		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.1km az=33.4.
IDC Error ellipse: s-maj=21.1km s-min=5.1km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 04 58 25.3–.75**	**36.67N–.05**	**140.95E–.08**	**46–5**	**3.7b**	**28**	**0-74**
NIED	III	30 04 58 00	36.60N	140.90E	68	3.8W		**¶17199160**
ISCJB	III	30 04 58 23.7–.82	36.64N–.05	141.0E–.10	52–5	3.7b		
JMA	III	30 04 58 24.8–.10	36.65N	140.92E	49–1	3.9		
IDC	III	30 04 58 26.4–.83	36.61N	140.84E	58–7	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ37.00000°,λ155.00000°. NP2:ϕ_s4.00000°,δ75.00000°,λ55.00000°. $M_0$5.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.8km az=16.8.
JMA Event type fe.
IDC Error ellipse: s-maj=19.3km s-min=15.5km az=113.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 05 02 12.3–.77**	**38.94N–.06**	**142.01E–.09**	**51**	**3.9b**	**25**	**0-145**
NIED	III	30 05 02 00	38.90N	142.00E	35	3.9W		**¶17199161**
ISCJB	III	30 05 02 10.5–.60	38.87N–.05	142.07E–.07	51	3.8b		
JMA	III	30 05 02 12.2–.10	38.89N	141.95E	48–1	3.9		
IDC	III	30 05 02 16.1–2.7	38.82N	141.95E	90–24	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ26.00000°,λ83.00000°. NP2:ϕ_s32.00000°,δ64.00000°,λ93.00000°. $M_0$7.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.3km az=137.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=16.1km az=94.0.

(227) Eastern Honshu

ISC	**III**	**30 05 06 31.2–1.8**	**37.25N–.08**	**140.95E–.08**	**9–11**	**3.5b**	**17**	**0-74**
JMA	III	30 05 06 35.4	37.14N	140.86E	6–1	2.8		**¶600572484**
IDC	III	30 05 06 38.7–1.8	37.32N	141.02E	71–15	3.4,3.3		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=11.5km az=97.0.

(229) Off east coast of Honshu

ISC	**III**	**30 05 29 55.2–.36**	**36.18N–.03**	**142.52E–.03**	**31–2**	**5.9s,5.5b**	**1485**	**1-165**
NIED	III	30 05 29 00	36.10N	142.50E	5	5.8W,5.5b		**¶16391176**
IDC	III	30 05 29 49.8–.40	36.02N	142.58E	0	5.7,5.6		
BJI	III	30 05 29 49.8	36.20N	142.55E	30	6.4s,6.2		
ISCJB	III	30 05 29 50.7–.55	36.12N–.02	142.51E–.01	12–3	5.9s,5.5b		
NEIC	III	30 05 29 52.5–.12	36.14N	142.46E	11	5.8,5.8W		
JMA	III	30 05 29 52.6–.20	36.12N	142.47E	80	6.3,5.8W		
MOS	III	30 05 29 54.9–.95	36.40N	142.43E	33	5.9s,5.7b		
NEIC	III	30 05 29 55.0–.00	36.13N	142.83E	30	5.9s,5.7b		
GCMT	III	30 05 29 56.5–.10	36.09N	142.63E	12	5.8W,5.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ36.00000°,λ89.00000°. NP2:ϕ_s33.00000°,δ54.00000°,λ90.00000°. $M_0$5.01000×10^{17}
IDC Error ellipse: s-maj=11.1km s-min=9.8km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=167.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=143.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s77 Moment tensor: Scale 10^{17}Nm; M_{rr}5.82 $M_{\theta\theta}$-2.70 $M_{\phi\phi}$-3.13 $M_{r\theta}$1.18 $M_{\theta\phi}$-3.05 $M_{\phi r}$2.73 Best double couple: NP1:ϕ_s232.00000°,δ33.00000°,λ105.00000°. NP2: ϕ_s34.00000°,δ58.00000°,λ81.00000°. Principal axes: T 6.6000,Plg75.0000°,Azm278.0000° ; N 0.0000,Plg8.0000°,Azm39.0000°; P -6.6000,Plg13.0000°,Azm131.0000° $M_0$6.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s279.00000°,δ41.00000°,λ131.00000°. NP2:ϕ_s50.00000°,δ60.00000°,λ60.00000°. Principal axes: T Plg62.0000°,Azm271.0000°; N Plg0.0000°,Azm0.0000°; P Plg10.0000° ,Azm161.0000°
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=111.1.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.47 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$-1.81 $M_{r\theta}$1.87 $M_{\theta\phi}$-1.06 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s39.00000° ,δ68.00000°,λ87.00000°. NP2:ϕ_s225.00000°,δ23.00000°,λ96.00000°. Principal axes: T 4.7900,Plg67.0000°,Azm303.0000°; N -0.6900,Plg2.0000°,Azm39.0000° ; P -4.1000,Plg22.0000°,Azm130.0000° $M_0$4.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c247; s141,c426;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}5.51±.03 $M_{\theta\theta}$-2.11±.03; $M_{\phi\phi}$-3.40±.04; $M_{r\theta}$-0.07±.09; $M_{\theta\phi}$-2.08±.03; $M_{\phi r}$0.86±.10; Best double couple: NP1:ϕ_s31.00000°,δ49.00000°,λ83.00000°. NP2:ϕ_s221.00000° ,δ42.00000°,λ98.00000°. Principal axes: T 5.6030,Plg84.0000°,Azm250.0000° ; N -0.6290,Plg5.0000°,Azm36.0000°; P -4.9730,Plg4.0000°,Azm126.0000° $M_0$5.28800×10^{17}

(227) Eastern Honshu
JMA III 30 05 31 55.7 36.96N 138.61E 8–1 3.7 ¶602704106
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 30 06 58 02.2–.93 36.23N–.05 140.80E–.08 31 3.4b 11 0-91
IDC III 30 06 58 01.4–.75 36.97N 140.66E 0 3.8,3.4 **¶17199169**
JMA III 30 06 58 01.5 36.22N 140.79E 36–1 3.7,3.4
ISCJB III 30 06 58 01.0–.78 36.24N–.04 140.83E–.08 31 3.5b,3.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC III 30 07 15 28.9–.61 37.41N–.06 141.38E–.07 60 4.1b 57 1-147
JMA III 30 07 15 27.5–.10 37.39N 141.39E 48–2 4.0 **¶16459641**
ISCJB III 30 07 15 27.2–.48 37.42N–.05 141.39E–.06 60 4.2b
IDC III 30 07 15 29.4–2.7 37.41N 141.27E 62–23 4.1,4.0
NEIC III 30 07 15 30.5–1.1 37.40N 141.30E 73–9 4.6b,4.0
BJI III 30 07 15 33.9 38.35N 140.58E 52 5.2b,4.8s
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=44.8.
IDC Error ellipse: s-maj=15.7km s-min=13.9km az=125.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.3km az=132.0.
(162) South Island
WEL III 30 07 40 25.9–.15 43.54S 172.17E 10–1 4.2L
NEIC III 30 07 40 26.0 43.54S 172.17E 10 4.2L **¶16391427**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
(228) Near east coast of eastern Honshu
ISC III 30 07 58 37.2–2.0 38.31N–.05 142.18E–.06 12–12 4.2b 61 1-150
NIED III 30 07 58 00 38.40N 142.20E 23 4.1W **¶16459642**
BJI III 30 07 58 29.7 37.86N 143.16E 20 5.0b,4.6b
JMA III 30 07 58 38.5–.20 38.38N 142.24E 34–2 4.3,4.6b
NEIC III 30 07 58 42.9–.89 38.31N 142.22E 57–7 4.6b,4.6b
IDC III 30 07 58 44.2–2.3 38.28N 142.15E 68–21 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ45.00000°,λ-127.00000°. NP2:ϕ_s237.00000°,δ56.00000°,λ-59.00000°. $M_0$1.63000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.4km az=125.0.
IDC Error ellipse: s-maj=16.0km s-min=11.9km az=107.0.
(227) Eastern Honshu
ISC III 30 08 13 32.5–1.1 37.09N–.03 140.84E–.06 6–6 3.7b 26 0-74
NIED III 30 08 13 00 37.10N 140.80E 5 3.6W **¶17199179**
IDC III 30 08 13 31.5–.88 37.02N 140.86E 0 3.8,3.7
ISCJB III 30 08 13 31.0–.93 37.09N–.03 140.94E–.06 7–4 3.6b,3.7
JMA III 30 08 13 32.8 37.10N 140.81E 7–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ41.00000°,λ-75.00000°. NP2:ϕ_s244.00000°,δ51.00000°,λ-102.00000°. $M_0$2.71000×10^{14}
IDC Error ellipse: s-maj=18.1km s-min=15.8km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=1.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s85.00000°,δ54.00000°,λ-54.00000°. NP2:ϕ_s213.00000°,δ49.00000°,λ-130.00000°. Principal axes: T Plg3.0000°,Azm150.0000°; N Plg29.0000°,Azm242.0000°; P Plg61.0000°,Azm55.0000°
(228) Near east coast of eastern Honshu
ISC III 30 08 48 46.3–2.1 38.43N–.09 142.5E–.20 24 3.9b 12 1-59
IDC III 30 08 48 44.3–2.6 39.08N 142.85E 0 3.8,3.7 **¶17199181**
JMA III 30 08 48 53.8–.10 38.89N 142.02E 47–1 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=67.1km s-min=31.0km az=72.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC III 30 08 50 12.5–1.3 37.07N–.03 140.69E–.04 1–9 3.8b 30 0-74
NIED III 30 08 50 00 37.10N 140.90E 5 3.9W **¶16399956**
IDC III 30 08 50 12.4–.80 37.00N 140.77E 0 3.9,3.8
ISCJB III 30 08 50 12.0–.84 37.07N–.03 140.90E–.05 7–4 3.7b,3.8
JMA III 30 08 50 13.3 37.08N 140.81E 5–1 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ17.00000°,λ-97.00000°. NP2:ϕ_s221.00000°,δ73.00000°,λ-88.00000°. $M_0$7.32000×10^{14}
IDC Error ellipse: s-maj=17.4km s-min=13.3km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=6.2.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 30 08 52 38.3–2.5 36.02N–.04 141.16E–.07 7–15 4.3b 55 0-147
NIED III 30 08 52 00 36.10N 141.20E 20 4.0W **¶16459643**
IDC III 30 08 52 37.2–.57 36.00N 141.14E 0 4.2,4.2b
JMA III 30 08 52 39.8–.10 35.98N 141.11E 35–2 4.2,4.2b
NEIC III 30 08 52 42.2–.31 35.97N 141.09E 35 4.5b,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ19.00000°,λ-156.00000°. NP2:ϕ_s54.00000°,δ82.00000°,λ-72.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=12.9km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=6.4km az=85.0. Recorded [3 JMA] in Ibaraki.
(227) Eastern Honshu
ISC III 30 09 19 19.3–1.2 39.60N–.03 140.68E–.04 4–11 18 0-10
IDC III 30 09 19 09.8–10 39.81N 141.81E 0 3.5,3.5 **¶17199187**
ISCJB III 30 09 19 18.7–.68 39.61N–.03 140.67E–.04 12–5 3.5,3.5
JMA III 30 09 19 19.0 39.60N 140.64E 5–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=120.9km s-min=41.6km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.5km az=148.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s192.00000°,δ84.00000°,λ123.00000°. NP2:ϕ_s291.00000°,δ34.00000°,λ10.00000°. Principal axes: T Plg41.0000°,Azm133.0000°; N Plg33.0000°,Azm8.0000°; P Plg31.0000°,Azm255.0000°
(228) Near east coast of eastern Honshu
ISC III 30 09 42 49.2–1.7 39.06N–.04 142.46E–.06 15–10 4.3b 58 1-82
NIED III 30 09 42 00 39.10N 142.40E 35 4.1W **¶16475813**
IDC III 30 09 42 46.8–.65 39.01N 142.36E 0 4.2,4.1
ISCJB III 30 09 42 48.8–.95 39.02N–.03 142.47E–.05 26–6 4.1b,3.6s
JMA III 30 09 42 50.7–.10 39.10N 142.39E 32–1 4.1,3.6s
NEIC III 30 09 42 52.9–.74 39.04N 142.41E 43–7 4.4b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ5.00000°,λ-78.00000°. NP2:ϕ_s178.00000°,δ85.00000°,λ-91.00000°. $M_0$1.50000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=13.6km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=14.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.1km az=122.0.
(69) Near coast of Chiapas
ISC III 30 09 45 22.7–.41 15.85N–.04 93.81W–.04 88–3 4.6b 607 1-135
CASC III 30 09 45 18.0–1.1 15.30N 94.19W 141–34 4.6b,4.2L **¶16391432**
MEX III 30 09 45 22.7–.68 15.79N 93.86W 81–7 4.4,4.2L
IDC III 30 09 45 22.2–.76 15.87N 93.65W 80–6 4.3,4.2
BJI III 30 09 45 22.9 15.80N 93.60W 96 5.1b,4.2
NEIC III 30 09 45 22.9–.33 15.78N 93.61W 86 4.7W,4.6b
ISCJB III 30 09 45 22.7–.28 15.91N–.02 93.60W–.03 101–2 4.5b,4.6b
ISC Event type fe.
NEIC Event type fe. Felt at Arriaga and Tuxtla Gutierrez. Moment Tensor Solution. s13 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43 $M_{\theta\theta}$1.24 $M_{\phi\phi}$-0.80 $M_{r\theta}$0.02 $M_{\theta\phi}$0.02 $M_{\phi r}$-0.43 Best double couple: NP1:ϕ_s309.00000°,δ68.00000°,λ-25.00000°. NP2:ϕ_s49.00000°,δ67.00000°,λ-15.00000°. Principal axes: T 1.2400,Plg1.0000°,Azm360.0000° ; N -0.1500,Plg57.0000°,Azm91.0000°; P -1.0900,Plg33.0000°,Azm269.0000° $M_0$1.20000×10^{16}
ISCJB Event type fe.

(227) Eastern Honshu
ISC III 30 10 54 50.9–1.1 36.80N–.03 138.62E–.03 4–8 3.9b,3.3s 42 0-77
NIED III 30 10 54 00 36.80N 138.60E 5 4.1W,3.3s **¶16399871**
IDC III 30 10 54 50.2–.74 36.73N 138.66E 0 4.0,3.8
JMA III 30 10 54 50.4 36.82N 138.61E 0 3.9,3.8
ISCJB III 30 10 54 50.2–.45 36.81N–.03 138.60E–.03 9–3 3.8b,3.4s
NEIC III 30 10 54 51.3–1.4 36.69N 138.63E 9–9 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ81.00000°,λ-4.00000°. NP2: ϕ_s99.00000°,δ86.00000°,λ-171.00000°. $M_0$1.59000×10^{15}
IDC Error ellipse: s-maj=21.7km s-min=6.6km az=141.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s195.00000°,δ84.00000°,λ-14.00000°. NP2:ϕ_s286.00000°,δ77.00000°,λ-174.00000°. Principal axes: T Plg5.0000°,Azm241.0000°; N Plg75.0000°,Azm350.0000°; P Plg14.0000°,Azm150.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=44.2.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=105.0. Recorded [3 JMA] in Nagano.
(228) Near east coast of eastern Honshu
JMA III 30 11 39 28.9–.10 35.87N 140.93E 13–1 3.7
NIED III 30 11 39 00 35.90N 140.90E 5 3.4W **¶600572780**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ32.00000°,λ-133.00000°. NP2:ϕ_s69.00000°,δ67.00000°,λ-67.00000°. $M_0$1.61000×10^{14}
(162) South Island
WEL III 30 11 53 57.8–.09 43.54S 172.73E 8–0 3.8L
NEIC III 30 11 53 58.0 43.55S 172.71E 11 3.9L **¶16399958**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Widely felt in the Christchurch area. After WEL.
(250) Mindoro
ISC III 30 12 03 51.7–.92 13.73N–.04 120.25E–.06 66–9 4.3b 58 1-111
IDC III 30 12 03 42.8–.64 13.85N 120.53E 0 4.3,4.1 **¶16459645**
ISCJB III 30 12 03 51.0–.43 13.74N–.03 120.26E–.05 73–5 4.2b,4.1
MAN III 30 12 03 50 13.74N 120.24E 51 4.6b,3.4L
NEIC III 30 12 03 52.9–1.4 13.80N 120.57E 80–13 4.6b,3.4L
ISC Event type fe.
IDC Error ellipse: s-maj=28.1km s-min=14.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=177.0.
MAN Event type fe. INTENSITY I - TAGAYTAY CITY.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=7.5km az=61.0. Felt [I PIVS] at Tagaytay, Luzon.
(228) Near east coast of eastern Honshu
ISC III 30 12 51 06.2–.88 36.35N–.05 141.61E–.07 26 3.5b 22 1-75
IDC III 30 12 51 02.2–1.0 36.27N 141.69E 0 3.8,3.6b **¶602703486**
ISCJB III 30 12 51 05.1–.69 36.35N–.04 141.68E–.06 26 3.5b,3.6b
JMA III 30 12 51 06.7–.10 36.37N 141.58E 52–4 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=21.0km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.1km az=156.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 30 12 51 38.0–.41 35.44N–.03 141.14E–.03 22–2 5.3b,4.8s 1019 0-155
NIED III 30 12 51 00 35.50N 141.20E 32 5.1W,4.8s **¶602443950**
BJI III 30 12 51 33.8 35.38N 141.28E 24 5.0b,4.9b
IDC III 30 12 51 34.4–.33 35.39N 141.03E 0 5.2,5.2
NEIC III 30 12 51 36.6–.09 35.40N 141.01E 12 5.3b,5.1W
GCMT III 30 12 51 36.6–.30 35.47N 141.17E 23–3 5.2W,5.1W
ISCJB III 30 12 51 37.5–.46 35.37N–.02 141.07E–.02 31–3 5.2b,4.8s
JMA III 30 12 51 37.1–.10 35.44N 141.23E 30–1 5.3,4.8s
MOS III 30 12 51 42.2–.82 35.77N 140.93E 55 5.5b,4.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ15.00000°,λ87.00000°. NP2:ϕ_s85.00000°,δ75.00000°,λ91.00000°. $M_0$4.32000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=8.1km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=137.0. Felt at Narita and Tokyo. Recorded [3 JMA] in Chiba and Saitama. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.40 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$1.65 $M_{r\theta}$5.66 $M_{\theta\phi}$1.70 $M_{\phi r}$0.72 Best double couple: NP1: ϕ_s349.00000°,δ21.00000°,λ-17.00000°. NP2:ϕ_s258.00000°,δ90.00000°,λ-69.00000°. Principal axes: T 5.5800,Plg41.0000°,Azm328.0000°; N 0.9900,Plg21.0000°,Azm77.0000° ; P -6.5800,Plg42.0000°,Azm187.0000° $M_0$6.10000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s51,c65; Duration: 1ϑ0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.59±.22 $M_{\theta\theta}$-2.25±.17; $M_{\phi\phi}$0.66±.15; $M_{r\theta}$7.42±1.04; $M_{\theta\phi}$-1.47±.12; $M_{\phi r}$0.41±.27; Best double couple: NP1:ϕ_s87.00000°,δ83.00000°,λ100.00000°. NP2:ϕ_s215.00000°,δ12.00000°,λ38.00000°. Principal axes: T 7.3850,Plg52.0000°,Azm8.0000°; N 0.8360,Plg10.0000°,Azm266.0000° ; P -8.2190,Plg37.0000°,Azm169.0000° $M_0$7.80200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.5km az=163.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=116.8.
(228) Near east coast of eastern Honshu
ISC III 30 13 00 04.5–.32 38.67N–.03 142.18E–.03 44–2 5.1b,4.8s 732 1-155
NIED III 30 13 00 00 38.60N 142.10E 47 5.2W,4.8s **¶603049282**
MOS III 30 13 00 03.2–.99 38.72N 142.16E 48 5.3b,4.9s
BJI III 30 13 00 03.3 38.60N 141.99E 51 5.2b,5.0b
JMA III 30 13 00 04.0–.10 38.65N 142.16E 42–2 5.1,5.0b
ISCJB III 30 13 00 04.3–.36 38.64N–.02 142.05E–.02 52–3 5.0b,4.7s
NEIC III 30 13 00 05.2–.20 38.67N 141.98E 48–1 5.0b,4.7s
GCMT III 30 13 00 05.2–.20 38.71N 142.23E 44–0 5.2W,4.7s
IDC III 30 13 00 06.7–1.7 38.66N 142.07E 60–14 4.8,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ22.00000°,λ88.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ91.00000°. $M_0$6.52000×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=5.3km az=98.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=145.3.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=141.0. Recorded [3 JMA] in Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c95; s96,c170; Duration: 1ϑ0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.84±.24 $M_{\theta\theta}$-1.61±.15; $M_{\phi\phi}$-5.24±.15; $M_{r\theta}$2.19±.11; $M_{\theta\phi}$-1.53±.09; $M_{\phi r}$3.94±.12; Best double couple: NP1:ϕ_s25.00000°,δ63.00000°,λ94.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ83.00000°. Principal axes: T 8.2990,Plg72.0000°,Azm303.0000°; N -1.0920,Plg3.0000°,Azm203.0000° ; P -7.2170,Plg18.0000°,Azm112.0000° $M_0$7.75800×10^{16}
IDC Error ellipse: s-maj=11.3km s-min=7.7km az=108.0.
(228) Near east coast of eastern Honshu
ISC III 30 13 19 04.9–.31 36.70N–.03 140.89E–.03 46–2 5.1b,4.4s 901 0-158
BJI III 30 13 18 59.5 36.54N 141.31E 53 5.1b,4.9b **¶16392167**
NIED III 30 13 19 00 36.70N 141.00E 53 5.1W,4.9b
MOS III 30 13 19 02.8–1.1 36.73N 140.87E 44 5.3b,4.9b
JMA III 30 13 19 04.7–.10 36.65N 140.93E 50–1 5.0,4.9b
ISCJB III 30 13 19 04.8–.28 36.68N–.02 140.84E–.02 55–2 5.0b,4.4s
NEIC III 30 13 19 06.8–.43 36.69N 140.75E 60–4 5.1b,4.4s
IDC III 30 13 19 06.8–1.4 36.63N 140.86E 62–11 5.0,4.7
GCMT III 30 13 19 06.8–.20 36.68N 141.01E 56–1 5.1W,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ13.00000°,λ84.00000°. NP2:ϕ_s23.00000°,δ78.00000°,λ91.00000°. $M_0$5.55000×10^{16}
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=105.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s33.00000°,δ72.00000°,λ91.00000°. NP2:ϕ_s210.00000°,δ18.00000°,λ87.00000°. Principal axes: T Plg63.0000°,Azm304.0000°; N Plg1.0000°,Azm212.0000°; P Plg27.0000°,Azm122.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=163.5.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=151.0. Recorded [4 JMA] in Ibaraki.
IDC Error ellipse: s-maj=9.5km s-min=8.4km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c74; s102,c183; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.78±.20 $M_{\theta\theta}$-0.07±.14; $M_{\phi\phi}$-3.71±.13;

$M_{r\theta}$1.18±.10; $M_{\theta\theta}$-1.20±.09; $M_{\theta f}$4.37±.12; Best double couple: NP1:ϕ_s15.00000°,δ70.00000°,λ89.00000°. NP2:ϕ_s198.00000°,δ20.00000°,λ92.00000°. Principal axes: T 5.8470,Plg65.0000°,Azm284.0000°; N 0.2910,Plg1.0000°,Azm16.0000°; P -6.1350,Plg25.0000°,Azm106.0000° $M_0$5.99100×10^{16}

(228) Near east coast of eastern Honshu

ISC	**III**	**30 13 44 00.9–2.2**	**37.91N–.04**	**141.81E–.08**	**12–13**		**23**	**1-63**
IDC	III	30 13 43 58.9–2.3	37.85N	142.22E	0	3.8,3.7		**¶17199206**
ISCJB	III	30 13 44 00.9–1.4	37.90N–.04	141.89E–.09	18–9	3.8s,3.5b		
JMA	III	30 13 44 02.4–.10	37.92N	141.81E	31–2	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=31.9km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.2km az=5.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 13 57 31.0–.94**	**35.81N–.05**	**140.90E–.07**	**26–6**	**3.9b**	**26**	**0-80**
NIED	III	30 13 57 00	35.90N	141.10E	8	3.9W		**¶16475833**
IDC	III	30 13 57 26.4–1.5	35.83N	141.20E	0	4.0,4.0		
JMA	III	30 13 57 29.9–.10	35.85N	141.09E	22–1	3.9,4.0		
NEIC	III	30 13 57 31.1–5.0	35.78N	141.21E	32–36	4.6b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ21.00000°,λ-30.00000°. NP2:ϕ_s2.00000°,δ80.00000°,λ-108.00000°. $M_0$8.87000×10^{14}
IDC Error ellipse: s-maj=49.2km s-min=18.2km az=63.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=12.2km az=55.0.

(224) Hokkaido region

ISC	**III**	**30 13 58 18.3–.83**	**42.25N–.04**	**142.58E–.04**	**30–6**	**4.0b**	**49**	**0-86**
NIED	III	30 13 58 00	42.30N	142.60E	35	4.0W		**¶602703283**
IDC	III	30 13 58 13.9–.70	42.31N	142.71E	0	4.0,3.8		
ISCJB	III	30 13 58 17.9–.40	42.23N–.04	142.60E–.05	40–4	3.9b,3.7s		
JMA	III	30 13 58 18.7–.20	42.32N	142.61E	27–2	3.9,3.7s		
MOS	III	30 13 58 19.0–1.7	42.14N	142.81E	57	4.4b,3.7s		
NEIC	III	30 13 58 20.1–.79	42.19N	142.83E	48–9	4.2b,3.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ64.00000°,λ-6.00000°. NP2:ϕ_s8.00000°,δ85.00000°,λ-154.00000°. $M_0$9.72000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=15.6km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.5km az=161.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s178.00000°,δ87.00000°,λ154.00000°. NP2:ϕ_s270.00000°,δ64.00000°,λ3.00000°. Principal axes: T Plg20.0000°,Azm131.0000°; N Plg64.0000°,Azm353.0000°; P Plg16.0000°,Azm227.0000°
MOS Error ellipse: s-maj=14.4km s-min=7.8km az=71.1.
NEIC Event type fe. Error ellipse: s-maj=13.5km s-min=9.5km az=123.0. Recorded [2 JMA] in southern Hokkaido.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 14 45 29.2–.35**	**35.78N–.04**	**141.20E–.04**	**31**	**4.6b,4.1s**	**242**	**0-147**
NIED	III	30 14 45 00	35.80N	141.10E	32	4.7W,4.1s		**¶16392169**
BJI	III	30 14 45 26.2	35.83N	141.21E	28	4.9b,4.6b		
ISCJB	III	30 14 45 28.1–.20	35.78N–.03	141.11E–.03	31	4.5b,4.0s		
JMA	III	30 14 45 29.5–.10	35.77N	141.07E	36–1	4.7,4.0s		
NEIC	III	30 14 45 29.9–1.6	35.73N	141.05E	35–11	4.7b,4.0s		
IDC	III	30 14 45 30.9–1.6	35.68N	141.04E	45–15	4.3,4.2		
MOS	III	30 14 45 32.0–.95	36.30N	140.98E	39	4.9b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s115.00000°,δ33.00000°,λ-57.00000°. NP2:ϕ_s258.00000°,δ63.00000°,λ-109.00000°. $M_0$1.49000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.2km az=148.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=131.0.
IDC Error ellipse: s-maj=13.6km s-min=10.9km az=92.0.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=100.3.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 15 01 06.5–1.8**	**37.17N–.05**	**141.63E–.07**	**31–12**	**3.9b**	**36**	**1-74**
NIED	III	30 15 01 00	37.20N	141.40E	59	3.9W		**¶16475840**
IDC	III	30 15 01 02.4–1.9	37.40N	141.77E	0	3.8b,3.7		
NEIC	III	30 15 01 08.8–.99	37.25N	141.60E	48–8	4.6b,3.7		
JMA	III	30 15 01 09.9–.10	37.19N	141.36E	49–1	3.8,3.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s31.00000°,δ68.00000°,λ97.00000°. $M_0$8.58000×10^{14}
IDC Error ellipse: s-maj=36.6km s-min=24.1km az=139.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.3km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 15 21 47.9–1.0**	**37.00N–.03**	**140.55E–.03**	**13–6**	**3.8b**	**33**	**0-91**
NIED	III	30 15 21 00	37.00N	140.50E	5	3.9W		**¶17199213**
IDC	III	30 15 21 45.8–.70	37.02N	140.64E	0	3.9,3.8		
JMA	III	30 15 21 47.8	36.99N	140.51E	4–2	3.7,3.8		
ISCJB	III	30 15 21 47.4–.48	37.00N–.03	140.61E–.04	21–3	3.6b,3.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ29.00000°,λ-97.00000°. NP2:ϕ_s136.00000°,δ61.00000°,λ-86.00000°. $M_0$8.09000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ52.00000°,λ-83.00000°. NP2:ϕ_s299.00000°,δ38.00000°,λ-99.00000°. Principal axes: T Plg7.0000°,Azm215.0000°; N Plg5.0000°,Azm306.0000°; P Plg81.0000°,Azm71.0000°
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 15 41 36.3–1.8**	**37.63N–.04**	**141.86E–.08**	**29–13**		**25**	**1-58**
IDC	III	30 15 41 28.9–2.8	37.86N	142.50E	0	3.6,3.5		**¶17199215**
JMA	III	30 15 41 38.6–.10	37.67N	141.75E	43–2	4.0,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=59.6km s-min=29.2km az=67.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 16 53 10.2–3.5**	**37.67N–.05**	**142.04E–.06**	**6–21**	**3.8b**	**40**	**1-146**
NIED	III	30 16 53 00	37.70N	142.00E	11	3.7W		**¶602703840**
ISCJB	III	30 16 53 09.7–1.3	37.66N–.04	142.12E–.07	15–8	3.9b		
IDC	III	30 16 53 09.4–.68	37.71N	142.17E	0	3.9,3.8		
JMA	III	30 16 53 12.5–.20	37.69N	141.96E	29–4	4.0,3.8		
NEIC	III	30 16 53 14.5–.30	37.68N	142.09E	35	4.5b,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ43.00000°,λ-62.00000°. NP2:ϕ_s304.00000°,δ53.00000°,λ-113.00000°. $M_0$4.33000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.9km az=11.2.
IDC Error ellipse: s-maj=20.3km s-min=15.5km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.8km az=122.0.

(221) Kuril Islands

ISC	**III**	**30 17 10 36.6–.34**	**43.95N–.04**	**147.96E–.04**	**35–3**	**4.8b,4.1s**	**715**	**1-152**
NIED	III	30 17 10 00	43.60N	147.90E	20	4.6W,4.1s		**¶16392177**
IDC	III	30 17 10 30.9–.50	43.94N	147.94E	0	4.6,4.6		
JMA	III	30 17 10 32.3–.30	43.65N	147.93E	0	4.6,4.6		
BJI	III	30 17 10 34.2	43.94N	148.06E	37	4.9b,4.8b		
MOS	III	30 17 10 34.9–.95	43.98N	147.93E	35	5.1b,4.0s		
ISCJB	III	30 17 10 35.2–.42	43.95N–.03	147.95E–.02	38–3	4.7b,4.0s		
NEIC	III	30 17 10 36.7–.16	43.96N	147.91E	37	4.7b,4.0s		
SKHL	III	30 17 10 37.3–.60	43.86N	147.94E	61–4	5.1b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ20.00000°,λ105.00000°. NP2:ϕ_s37.00000°,δ71.00000°,λ85.00000°. $M_0$8.87000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.3km az=140.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.0km az=107.6.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.7km az=160.9.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=2.4km az=157.0. Recorded [1 JMA] in eastern Hokkaido.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 17 23 12.6–2.0**	**38.23N–.04**	**142.10E–.07**	**5–12**	**3.8b**	**37**	**1-146**
JMA	III	30 17 23 13.0–.20	38.21N	142.15E	18–3	4.1		**¶16459650**
ISCJB	III	30 17 23 13.4–2.0	38.21N–.03	142.17E–.06	15–13	3.6b		
IDC	III	30 17 23 18.1–2.3	38.17N	142.04E	43–23	3.6,3.6		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.6km az=1.9.
IDC Error ellipse: s-maj=25.1km s-min=13.0km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 17 54 03.1–1.2**	**36.73N–.07**	**141.48E–.09**	**26**	**3.5b**	**23**	**1-60**
IDC	III	30 17 53 57.4–1.8	36.99N	141.91E	0	3.9L,3.7		**¶600573047**
NIED	III	30 17 54 00	36.70N	141.30E	44	3.8W,3.7		
ISCJB	III	30 17 54 00.6–.76	36.72N–.05	141.63E–.07	26	3.5b,3.7		
NEIC	III	30 17 54 03.0–1.1	36.83N	141.71E	35	4.4b,3.7		
JMA	III	30 17 54 05.9–.10	36.74N	141.27E	48–2	3.5,3.7		

ISC Event type se.
IDC Error ellipse: s-maj=47.6km s-min=18.2km az=66.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ18.00000°,λ-176.00000°. NP2:ϕ_s160.00000°,δ89.00000°,λ-72.00000°. $M_0$5.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.1km az=144.8.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=10.7km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 19 45 59.1–1.1**	**38.36N–.06**	**142.43E–.08**	**24**	**3.4b**	**26**	**1-79**
NIED	III	30 19 45 00	38.30N	142.40E	32	3.8W		**¶17199224**
IDC	III	30 19 45 54.2–1.2	38.30N	142.83E	0	3.7,3.5		
ISCJB	III	30 19 45 58.3–.88	38.35N–.05	142.44E–.07	24	3.4b,3.5		
JMA	III	30 19 45 59.3–.20	38.32N	142.38E	31–3	4.1,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ32.00000°,λ-118.00000°. NP2:ϕ_s173.00000°,δ62.00000°,λ-74.00000°. $M_0$4.91000×10^{14}
IDC Error ellipse: s-maj=29.0km s-min=27.6km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.6km az=29.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 20 00 20.3–1.2**	**35.81N–.04**	**141.13E–.05**	**11–6**	**4.2b,3.6s**	**81**	**0-148**
NIED	III	30 20 00 00	35.90N	141.10E	11	4.1W,3.6s		**¶16401545**
IDC	III	30 20 00 18.7–.62	35.76N	141.08E	0	4.1,4.0		
ISCJB	III	30 20 00 19.4–.82	35.82N–.04	141.20E–.05	19–5	4.2b,3.6s		
JMA	III	30 20 00 21.1–.20	35.85N	141.12E	24–1	4.3,3.6s		
NEIC	III	30 20 00 24.1–2.2	35.92N	141.06E	33–15	4.5b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ18.00000°,λ-46.00000°. NP2:ϕ_s360.00000°,δ77.00000°,λ-103.00000°. $M_0$1.59000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.8km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.9km az=165.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.5km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 20 33 32.8–.73**	**36.47N–.05**	**140.92E–.08**	**32**	**3.6b,3.1s**	**25**	**0-75**
NIED	III	30 20 33 00	36.40N	141.10E	5	3.9W,3.1s		**¶600573210**
JMA	III	30 20 33 29.7	36.39N	141.07E	22–1	4.2,3.1s		
ISCJB	III	30 20 33 30.7–.56	36.44N–.04	141.01E–.07	32	3.6b,3.1s		
IDC	III	30 20 33 34.1–1.9	36.41N	140.97E	45–18	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ63.00000°,λ-9.00000°. NP2:ϕ_s126.00000°,δ82.00000°,λ-153.00000°. $M_0$9.27000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.5km az=11.8.
IDC Error ellipse: s-maj=23.1km s-min=11.8km az=86.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**30 21 52 26.1–.10**	**35.82N**	**140.91E**	**11–1**	**3.5**		
NIED	III	30 21 52 00	35.80N	140.90E	5	3.4W		**¶600573254**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ31.00000°,λ-123.00000°. NP2:ϕ_s10.00000°,δ65.00000°,λ-72.00000°. $M_0$1.29000×10^{14}

(72) Honduras

ISC	**III**	**30 22 26 32.1–1.3**	**15.35N–.03**	**87.67W–.03**	**5–9**	**4.2b,3.0s**	**100**	**1-146**
IDC	III	30 22 26 32.6–.85	15.45N	87.59W	0	4.0,3.9		**¶16401547**
ISCJB	III	30 22 26 33.6–1.1	15.52N–.02	87.54W–.03	15–7	4.1b,3.1s		
CASC	III	30 22 26 36.5–2.8	15.27N	87.68W	0–14	4.5b,4.0L		
NEIC	III	30 22 26 37.3–1.4	15.26N	87.65W	37–16	4.5b,4.0L		

ISC Event type fe.
IDC Error ellipse: s-maj=23.8km s-min=14.9km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=13.9.
CASC Error ellipse: s-maj=29.1km s-min=11.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.0km s-min=8.4km az=225.0. Felt [III] at El Progreso and San Pedro Sula. Also felt at Quimistan and Villanueva.

(227) Eastern Honshu

ISC	**III**	**30 22 33 07.6–1.3**	**36.34N–.05**	**137.65E–.03**	**0–8**	**4.1b,3.7s**	**48**	**0-93**
NIED	III	30 22 33 00	36.50N	137.60E	11	4.5W,3.7s		**¶16475870**
ISCJB	III	30 22 33 06.8–.58	36.33N–.04	137.63E–.03	5–4	4.1b,3.8s		
JMA	III	30 22 33 07.3–.10	36.45N	137.62E	1–2	3.9,3.8s		
NEIC	III	30 22 33 08.8–.36	36.25N	137.77E	10	4.4b,3.8s		
IDC	III	30 22 33 08.6–1.3	36.50N	137.67E	0	3.9,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ76.00000°,λ-172.00000°. NP2:ϕ_s181.00000°,δ82.00000°,λ-14.00000°. $M_0$7.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.1km az=168.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s184.00000°,δ79.00000°,λ-31.00000°. NP2:ϕ_s280.00000°,δ60.00000°,λ-168.00000°. Principal axes: T Plg13.0000°,Azm235.0000°; N Plg58.0000°,Azm346.0000°; P Plg29.0000°,Azm138.0000°
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.5km az=139.0.
IDC Error ellipse: s-maj=42.4km s-min=7.5km az=4.0.

(229) Off east coast of Honshu

ISC	**III**	**30 22 36 58.1–2.0**	**37.84N–.05**	**142.50E–.06**	**9–11**	**3.9b**	**36**	**1-146**
IDC	III	30 22 36 56.8–.96	37.84N	142.60E	0	3.8,3.8b		**¶17199234**
JMA	III	30 22 37 01.1–.20	37.90N	142.51E	40	4.2,3.8b		

ISC Event type ke.
IDC Error ellipse: s-maj=23.6km s-min=18.2km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**30 22 50 54.5–.30**	**39.09N**	**142.69E**	**19–4**	**4.4**		**¶600573319**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**30 23 40 00.0–2.5**	**36.37N–.10**	**140.8E–.10**	**17–12**	**3.7b**	**16**	**0-57**
NIED	III	30 23 40 00	36.40N	140.90E	23	3.4W		**¶17199238**
JMA	III	30 23 40 00.8–.10	36.36N	140.89E	37–1	3.6		
IDC	III	30 23 40 02.4–7.5	35.72N	140.75E	65–50	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ24.00000°,λ137.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ72.00000°. $M_0$1.22000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=127.7km s-min=54.6km az=23.0.

(212) Bonin Islands region

ISC	**III**	**30 23 52 10.3–.42**	**27.04N–.04**	**141.54E–.04**	**73–3**	**4.9b**	**417**	**1-150**
NIED	III	30 23 52 00	27.00N	142.10E	65	5.0W		**¶16399881**
BJI	III	30 23 52 06.4	27.06N	141.81E	67	4.9b,4.5b		
ISCJB	III	30 23 52 08.7–.35	27.06N–.02	141.43E–.03	66–3	4.9b,4.5b		
MOS	III	30 23 52 08.6–1.1	26.98N	141.21E	73	5.2b,4.5b		
IDC	III	30 23 52 08.4–.81	27.02N	141.44E	55–8	4.5,4.4		
JMA	III	30 23 52 10.5–.10	27.01N	142.32E	93	4.8,4.4		
NEIC	III	30 23 52 11.2–.71	27.00N	141.39E	78–6	5.0b,4.4		
GCMT	III	30 23 52 11.2–.30	27.09N	141.53E	81–4	5.0W,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ24.00000°,λ55.00000°. NP2:ϕ_s180.00000°,δ71.00000°,λ104.00000°. $M_0$3.87000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=16.8.
MOS Error ellipse: s-maj=10.6km s-min=5.1km az=99.2.
IDC Error ellipse: s-maj=11.4km s-min=9.8km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=6.9km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=115.0. Recorded [2 JMA] in the Chichijima-retto and Hahajima-retto.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c44; s64,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.67±.17 $M_{\theta\theta}$-2.05±.16; $M_{\phi\phi}$1.38±.17; $M_{r\theta}$-2.92±.09; $M_{\theta\phi}$-1.47±.14; $M_{\phi r}$1.17±.11; Best double couple: NP1:ϕ_s289.00000°,δ84.00000°,λ125.00000°. NP2:ϕ_s28.00000°,δ35.00000°,λ11.00000°. Principal axes: T 3.8410,Plg41.0000°,Azm231.0000°; N 0.1480,Plg34.0000°,Azm105.0000°; P -3.9870,Plg30.0000°,Azm352.0000° $M_0$3.91400×10^{16}

(227) Eastern Honshu

ISC	**III**	**31 00 22 05.0–1.0**	**39.60N–.03**	**140.47E–.04**	**9–7**	**3.7b**	**23**	**0-89**
IDC	III	31 00 22 03.2–.83	39.52N	140.39E	0	3.8,3.6		**¶17199241**
JMA	III	31 00 22 04.8	39.60N	140.44E	5–1	3.5,3.6		
ISCJB	III	31 00 22 04.5–.57	39.61N–.03	140.44E–.05	17–5	3.7b,3.6		

ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ55.00000°,λ136.00000°. NP2:ϕ_s96.00000°,δ55.00000°,λ44.00000°. Principal axes: T Plg54.0000°,Azm306.0000°; N Plg36.0000°,Azm126.0000°; P Plg0.0000°,Azm36.0000°
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 00 29 09.9–.94**	**37.71N–.04**	**141.84E–.05**	**11–5**	**4.4b**	**115**	**1-146**
NIED	III	31 00 29 00	37.70N	141.90E	14	4.2W		**¶16403098**
IDC	III	31 00 29 07.8–.58	37.73N	141.88E	0	4.3,4.3		
JMA	III	31 00 29 09.6–.10	37.72N	141.88E	20–2	4.4,4.3		
ISCJB	III	31 00 29 09.4–.99	37.73N–.03	141.92E–.05	17–6	4.4b,4.3		
NEIC	III	31 00 29 14.0–.79	37.71N	141.82E	40–7	4.6b,4.3		

ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s271.00000°,δ49.00000°,λ-146.00000°. NP2:ϕ_s157.00000°,δ65.00000°,λ-46.00000°. $M_0$2.27000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=13.6km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=33.6.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.0km az=145.0.

(227) Eastern Honshu

JMA	**III**	**31 00 57 03.7**	**36.44N**	**137.62E**	**0**	**3.5**		
								¶602706452

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 01 28 47.5–1.4**	**38.24N–.04**	**141.93E–.08**	**43–11**	**4.4b**	**121**	**1-151**
BJI	III	31 01 28 40.3	37.97N	142.43E	30	5.0b,4.8s		**¶16399886**
NEIC	III	31 01 28 46.5–.74	38.21N	142.00E	36–6	4.6b,4.8s		
ISCJB	III	31 01 28 46.9–.66	38.17N–.03	141.92E–.06	54–4	4.4b,4.8s		
JMA	III	31 01 28 47.6–.10	38.22N	141.93E	47–1	4.3,4.8s		
IDC	III	31 01 28 49.1–2.0	38.17N	141.80E	55–19	4.2,4.1		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.1km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.7km az=9.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.0km s-min=11.0km az=85.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**31 02 31 27.1–.10**	**36.15N**	**141.03E**	**33–2**	**2.8**		
								¶600573479

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**31 03 15 18.3–.10**	**38.85N**	**142.05E**	**47–1**	**3.7**		
								¶602706157

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 03 25 37.5–.60**	**36.76N–.04**	**141.72E–.05**	**30–3**	**4.8b,4.3s**	**363**	**1-152**
NIED	III	31 03 25 00	36.80N	141.60E	20	4.6W,4.3s		**¶16399890**
ISCJB	III	31 03 25 35.8–.93	36.76N–.03	141.76E–.03	29–6	4.7b,4.4s		
BJI	III	31 03 25 36.9	36.80N	141.74E	50	5.0b,4.9b		
MOS	III	31 03 25 37.7–.92	36.89N	141.75E	40	5.0b,4.9b		
JMA	III	31 03 25 38.1–.40	36.78N	141.59E	49–4	4.6,4.9b		
NEIC	III	31 03 25 38.9–.60	36.78N	141.70E	41–5	4.7b,4.9b		
IDC	III	31 03 25 40.3–2.0	36.69N	141.64E	53–18	4.5,4.3		

ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s219.00000°,δ15.00000°,λ106.00000°. NP2:ϕ_s23.00000°,δ76.00000°,λ86.00000°. $M_0$9.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=140.6.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=109.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=137.0.
IDC Error ellipse: s-maj=14.5km s-min=12.2km az=124.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 04 40 16.8–.96**	**36.71N–.04**	**140.55E–.05**	**7–6**	**3.6b**	**25**	**0-147**
NIED	III	31 04 40 00	36.70N	140.70E	5	3.8W		**¶16399892**
IDC	III	31 04 40 15.7–.74	36.68N	140.49E	0	3.9,3.7		
ISCJB	III	31 04 40 15.4–.82	36.65N–.04	140.73E–.06	12–4	3.7b,2.8s		
JMA	III	31 04 40 17.0	36.70N	140.62E	5–1	3.6,2.8s		

ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s340.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s151.00000°,δ59.00000°,λ-94.00000°. $M_0$5.11000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=18.6km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.4km az=36.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**III**	**31 04 45 23.1–.10**	**38.34N**	**141.92E**	**47–1**	**3.6**		
								¶602706075

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(232) Western Honshu

JMA	**III**	**31 06 04 58.3**	**35.68N**	**136.89E**	**15**	**3.5**		
NIED	III	31 06 04 00	35.70N	136.90E	20	3.4W		**¶600573579**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s251.00000°,δ82.00000°,λ-160.00000°. NP2:ϕ_s158.00000°,δ70.00000°,λ-9.00000°. Principal axes: T Plg8.0000°,Azm23.0000°; N Plg68.0000°,Azm272.0000°; P Plg20.0000°,Azm116.0000°
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s345.00000°,δ78.00000°,λ12.00000°. NP2:ϕ_s252.00000°,δ78.00000°,λ168.00000°. $M_0$1.45000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**III**	**31 06 27 29.5–.64**	**39.29N–.05**	**142.88E–.05**	**30–3**	**4.5b,4.0s**	**110**	**1-88**
NIED	III	31 06 27 00	39.10N	143.00E	5	4.3W,4.0s		**¶16401554**
BJI	III	31 06 27 23.2	39.26N	143.57E	27	4.9b,4.5b		
JMA	III	31 06 27 24.8–.10	39.14N	142.99E	16–2	4.5,4.5b		
ISCJB	III	31 06 27 26.9–1.1	39.20N–.04	142.95E–.04	27–7	4.4b,3.9s		
NEIC	III	31 06 27 31.7–.65	39.25N	142.93E	50–6	4.7b,3.9s		
IDC	III	31 06 27 32.2–2.3	39.17N	142.97E	61–21	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ63.00000°,λ-153.00000°. NP2:ϕ_s260.00000°,δ66.00000°,λ-30.00000°. $M_0$2.88000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=155.1.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=137.0.
IDC Error ellipse: s-maj=16.5km s-min=13.1km az=131.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 07 15 29.7–.33**	**38.92N–.03**	**142.02E–.03**	**42–2**	**5.9b,5.6s**	**2067**	**0-159**
NIED	III	31 07 15 00	38.90N	142.10E	50	6.0W,5.6s		**¶16399899**
BJI	III	31 07 15 25.9	38.85N	142.15E	40	6.0s,5.9		
MOS	III	31 07 15 28.5–.89	39.09N	141.92E	37	6.1b,5.6s		
JMA	III	31 07 15 29.6–.10	38.87N	142.08E	47–1	6.1,5.6s		
ISCJB	III	31 07 15 29.7–.28	38.89N–.02	141.93E–.01	53–2	5.8b,5.7s		
GCMT	III	31 07 15 30.2–.10	38.97N	142.05E	50–0	6.0W,5.7s		
IDC	III	31 07 15 30.1–1.2	38.89N	142.01E	45–10	5.7,5.5		
NEIC	III	31 07 15 30.0–.00	38.75N	142.42E	39	5.7,5.5		
NEIC	III	31 07 15 30.2–.08	38.92N	141.82E	42	6.1W,6.0W		
NEIC	III	31 07 15 52.5–.00	39.16N	140.84E	42	6.1W,6.0W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ21.00000°,λ68.00000°. NP2:ϕ_s25.00000°,δ70.00000°,λ98.00000°. $M_0$1.13000×10^{18}
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=92.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=161.4.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c307; s138,c444;Duration: 2σ_6 Moment tensor: Scale 10^{18} Nm; M_{rr}1.07±.01 $M_{\theta\theta}$-0.00±.01; $M_{\phi\phi}$-1.07±.01; $M_{r\theta}$0.42±.01; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$0.84±.01; Best double couple: NP1:ϕ_s22.00000°,δ65.00000°,λ98.00000°. NP2:ϕ_s183.00000°,δ26.00000°,λ73.00000°. Principal axes: T 1.4320,Plg69.0000°,Azm307.0000°; N 0.0230,Plg7.0000°,Azm198.0000°; P -1.4580,Plg20.0000°,Azm106.0000° $M_0$1.44500×10^{18}
IDC Error ellipse: s-maj=10.4km s-min=7.9km az=101.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ69.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ21.00000°,λ91.00000°. Principal axes: T 1.2500,Plg65.0000°,Azm289.0000°; N -0.0600,Plg0.0000°,Azm19.0000°; P -1.1900,Plg24.0000°,Azm109.0000°
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=147.0. Felt [III] at Misawa. Also felt at Tokyo and Yokosuka and at Sapporo, Hokkaido. Recorded [5L JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s89 Moment tensor: Scale 10^{18}Nm; M_{rr}1.07 $M_{\theta\theta}$0.19 $M_{\phi\phi}$-1.25 $M_{r\theta}$0.52 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s180.00000°,δ26.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ66.00000°,λ101.00000°. Principal axes: T 1.5000,Plg67.0000°,Azm315.0000°; N 0.2500,Plg10.0000°,Azm201.0000°; P -1.7500,Plg21.0000°,Azm108.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{18}Nm; M_{rr}1.11 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-0.98 $M_{r\theta}$0.57 $M_{\theta\phi}$-0.24 $M_{\phi r}$0.04 Best double couple: NP1:ϕ_s176.00000°,δ44.00000°,λ59.00000°. NP2:ϕ_s36.00000°,δ54.00000°,λ116.00000°. Principal axes: T 1.3300,Plg68.0000°,Azm3.0000°; N -0.2700,Plg21.0000°,Azm200.0000°; P -1.0600,Plg6.0000°,Azm108.0000° $M_0$1.20000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**III**	**31 07 20 60.0–1.7**	**39.41N–.04**	**142.59E–.06**	**12–10**	**4.3b**	**28**	**1-75**
IDC	III	31 07 21 01.7–1.1	39.95N	142.42E	0	4.4,4.3		**¶16475924**
JMA	III	31 07 21 01.1–.10	39.48N	142.64E	27–1	4.4,4.3		
ISCJB	III	31 07 21 01.7–1.2	39.53N–.04	142.60E–.08	27–7	4.2b,4.3		
NEIC	III	31 07 21 06.2–.63	39.83N	142.40E	35	4.2b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=23.0km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.3km az=17.8.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=10.1km az=117.0.

(243) Taiwan region

ISC	**III**	**31 08 49 57.6–1.5**	**21.96N–.04**	**121.75E–.04**	**5–9**	**3.8b**	**103**	**0-85**
ISCJB	III	31 08 49 55.3–.68	21.90N–.03	121.87E–.02	1–4	3.9b		**¶16475930**
JMA	III	31 08 49 56.3–.40	22.02N	121.71E	2	4.3		
TAP	III	31 08 49 57.3	21.91N	121.72E	11–0	4.1L		
IDC	III	31 08 49 57.0–.79	21.87N	121.79E	0	4.0,3.9		
NEIC	III	31 08 49 58.5–.49	21.92N	121.76E	10	4.1b,3.9		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=6.7.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
IDC Error ellipse: s-maj=33.4km s-min=15.7km az=65.0.
NEIC Event type fe. Error ellipse: s-maj=15.3km s-min=7.3km az=71.0. Recorded [3 TAP] in Taitung.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 09 18 53.1–1.5**	**39.05N–.05**	**142.3E–.10**	**22–8**	**3.6b**	**18**	**0-47**
IDC	III	31 09 18 43.6–3.5	38.09N	142.48E	0	3.7,3.7b		**¶17199276**
ISCJB	III	31 09 18 52.5–1.5	39.04N–.05	142.40E–.09	32–7	3.5b,3.7b		
JMA	III	31 09 18 53.4–.10	39.09N	142.37E	32–1	3.9,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=82.1km s-min=27.3km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=8.1km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**III**	**31 09 26 28.0–.10**	**37.38N**	**141.35E**	**29–2**	**3.6**		
								¶602705950

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 09 36 22.2–.81**	**35.73N–.06**	**140.75E–.07**	**45–7**	**3.8b**	**23**	**0-71**
ISCJB	III	31 09 36 21.2–.52	35.75N–.05	140.76E–.09	53–4	3.7b		**¶600573728**
IDC	III	31 09 36 22.3–2.1	35.66N	140.72E	47–21	3.9,3.7		
JMA	III	31 09 36 22.8–.10	35.76N	140.66E	42–2	3.1,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=8.7km az=166.3.
IDC Error ellipse: s-maj=22.2km s-min=15.1km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**III**	**31 10 04 37.7–.57**	**40.37N–.04**	**143.36E–.04**	**12–2**	**4.7b,4.3s**	**243**	**1-116**
NIED	III	31 10 04 00	40.30N	143.40E	14	4.6W,4.3s		**¶16399962**
IDC	III	31 10 04 35.5–.52	40.32N	143.38E	0	4.5,4.4		
JMA	III	31 10 04 36.8–.30	40.32N	143.42E	13–4	4.6,4.4		
ISCJB	III	31 10 04 37.6–.81	40.33N–.03	143.39E–.04	21–5	4.6b,4.2s		
BJI	III	31 10 04 38.4	40.31N	143.24E	30	5.0b,4.8b		
NEIC	III	31 10 04 41.1–1.4	40.39N	143.29E	33–10	4.8b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ21.00000°,λ57.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ102.00000°. $M_0$8.47000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=11.7km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.2km az=41.8.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.0km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 10 28 25.8–1.5**	**37.32N–.04**	**141.24E–.06**	**7–9**	**3.9b**	**32**	**0-90**
ISCJB	III	31 10 28 25.7–1.1	37.26N–.04	141.32E–.08	17–8	3.8b		**¶17199285**
JMA	III	31 10 28 26.5–.10	37.30N	141.22E	17–1	4.0		
IDC	III	31 10 28 30.4–3.6	37.25N	141.16E	41–34	3.8,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.0km az=23.8.
JMA Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=16.0km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 10 30 30.9–.76**	**38.38N–.05**	**142.16E–.06**	**34–2**	**4.1b**	**63**	**1-146**
NIED	III	31 10 30 00	38.40N	142.10E	38	4.1W		**¶602705859**
ISCJB	III	31 10 30 30.3–.85	38.40N–.04	142.13E–.07	44–6	4.0b		
JMA	III	31 10 30 30.1–.10	38.41N	142.14E	37–2	4.2		
IDC	III	31 10 30 31.2–.70	38.42N	142.16E	34–4	4.0,4.0		
NEIC	III	31 10 30 32.3–.77	38.45N	142.13E	44–6	4.5b,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ8.00000°,λ-21.00000°. NP2:ϕ_s211.00000°,δ87.00000°,λ-98.00000°. $M_0$1.50000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.3km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=13.0km az=133.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.7km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**III**	**31 10 59 51.4–1.6**	**38.49N–.05**	**142.22E–.07**	**20–6**	**3.9b**	**19**	**1-62**
NIED	III	31 10 59 00	38.50N	142.20E	26	3.6W		**¶602705832**
IDC	III	31 10 59 49.0–.90	38.24N	143.14E	0	3.9,3.8		
ISCJB	III	31 10 59 50.0–2.6	38.45N–.07	142.3E–.10	22–18	3.8b,2.8s		
JMA	III	31 10 59 52.1–.10	38.50N	142.20E	26–2	4.0,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ41.00000°,λ-21.00000°. NP2:ϕ_s268.00000°,δ77.00000°,λ-129.00000°. $M_0$2.94000×10^{14}
IDC Error ellipse: s-maj=29.2km s-min=17.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=21.4km s-min=8.3km az=25.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(35) Near coast of northern California

ISC	**III**	**31 11 58 46.9–2.7**	**40.47N–.06**	**124.2W–.10**	**6–13**		**22**	**1-5**
NEIC	III	31 11 58 49.6	40.43N	124.22W	26	3.6W		**¶16577626**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Carlotta and [II] at Ferndale, Fortuna and Rio Dell. Also felt at Hydesville, Redcrest, Redding, Redway and Scotia. After NCEDC. Moment Tensor Solution. $M_0$3.10000×10^{14}

(228) Near east coast of eastern Honshu
ISC III 31 13 00 58.1–1.7 36.66N–.05 141.35E–.08 27–12 3.5b 23 1-57
IDC III 31 13 00 52.7–2.5 36.81N 141.69E 0 3.9L,3.8 ¶17199295
ISCJB III 31 13 00 58.2–.94 36.63N–.04 141.34E–.08 46–9 3.4b,3.4s
JMA III 31 13 01 00.6–.10 36.68N 141.14E 47–2 3.5,3.4s
NIED III 31 13 01 00 36.70N 141.10E 50 3.7W,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=57.2km s-min=23.2km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.5km az=0.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ23.00000°,λ-99.00000°. NP2:ϕ_s271.00000°,δ68.00000°,λ-86.00000°. $M_0$3.58000×10^{14}
(228) Near east coast of eastern Honshu
ISC III 31 13 10 52.6–1.8 37.67N–.04 141.83E–.06 9–10 4.1b 44 1-146
IDC III 31 13 10 51.5–.56 37.67N 141.80E 0 4.2,4.1 ¶16475960
ISCJB III 31 13 10 52.1–1.1 37.62N–.04 141.92E–.06 17–7 4.0b,3.5s
JMA III 31 13 10 52.4–.10 37.66N 141.89E 14–2 4.4,3.5s
NEIC III 31 13 10 56.7–.39 37.67N 141.82E 35 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=13.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.7km az=23.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.1km az=148.0.
(228) Near east coast of eastern Honshu
ISC III 31 13 42 55.9–1.8 38.34N–.04 142.27E–.05 7–10 4.2b,3.5s 58 1-145
NIED III 31 13 42 00 38.40N 142.20E 26 4.3W,3.5s ¶16459659
IDC III 31 13 42 55.2–.54 38.33N 142.28E 0 4.2,4.0
ISCJB III 31 13 42 56.3–1.1 38.37N–.03 142.30E–.05 19–7 4.1b,3.5s
JMA III 31 13 42 58.3–.10 38.43N 142.21E 27–2 4.2,3.5s
NEIC III 31 13 43 00.1–.40 38.31N 142.29E 35 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ61.00000°,λ-30.00000°. NP2:ϕ_s289.00000°,δ64.00000°,λ-147.00000°. $M_0$2.94000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=12.4km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.3km az=27.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.8km az=130.0.
(228) Near east coast of eastern Honshu
ISC III 31 14 20 32.8–1.8 38.89N–.05 142.38E–.06 12–10 3.9b 44 1-88
NIED III 31 14 20 00 39.00N 142.40E 26 3.8W ¶16475965
IDC III 31 14 20 30.6–.81 38.76N 142.45E 0 4.0,3.8
JMA III 31 14 20 35.1–.10 38.96N 142.39E 36–2 3.8,3.8
NEIC III 31 14 20 37.0–1.1 38.86N 142.44E 48–11 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ19.00000°,λ-46.00000°. NP2:ϕ_s177.00000°,δ77.00000°,λ-103.00000°. $M_0$5.47000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=17.7km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=9.0km az=117.0.
(228) Near east coast of eastern Honshu
ISC III 31 14 42 32.9–1.0 38.45N–.05 142.67E–.05 16–6 4.6b,3.7s 131 1-145
NIED III 31 14 42 00 38.40N 142.70E 17 4.4W,3.7s ¶602705617
IDC III 31 14 42 30.3–.53 38.33N 142.67E 0 4.5,4.4
ISCJB III 31 14 42 30.7–.25 38.42N–.03 142.72E–.03 10 4.5b,3.8s
JMA III 31 14 42 33.5–.10 38.39N 142.67E 25–3 4.5,3.8s
NEIC III 31 14 42 36.7–.74 38.51N 142.57E 39–6 4.6b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ21.00000°,λ-177.00000°. NP2:ϕ_s177.00000°,δ89.00000°,λ-69.00000°. $M_0$4.36000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=13.1km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.0km az=160.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.1km az=146.0.
(228) Near east coast of eastern Honshu
ISC III 31 16 53 39.6–2.0 37.77N–.05 141.86E–.09 27–13 3.4b 30 1-62
IDC III 31 16 53 29.4–2.3 38.34N 142.58E 0 3.6,3.5 ¶17199319
JMA III 31 16 53 40.8–.10 37.83N 141.80E 48–2 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=57.1km s-min=26.2km az=57.0.
JMA Event type fe.
(460) Wyoming
ISC III 31 17 14 13.3–.47 43.59N–.03 105.27W–.03 0 4.3b 207 1-93
IDC III 31 17 14 12.8–.63 43.52N 105.34W 0 4.2,4.1b ¶17199322
ISCJB III 31 17 14 12.6–.17 43.57N–.02 105.26W–.02 0 4.2b,4.1b
NEIC III 31 17 14 13.5–.19 43.65N 105.14W 0 4.0L,4.1b
ISC Event type sm.
IDC Error ellipse: s-maj=14.6km s-min=7.1km az=153.0.
ISCJB Event type fm. Error ellipse: s-maj=2.4km s-min=2.0km az=141.0.
NEIC Event type fm. Error ellipse: s-maj=3.2km s-min=3.0km az=159.0. 78 km [49 miles] SSE of Gillette. Suspected Mining explosion.
(228) Near east coast of eastern Honshu
ISC III 31 17 21 35.5–1.0 36.95N–.05 141.28E–.05 19–4 4.4b,3.9s 93 0-147
NIED III 31 17 21 00 37.00N 141.30E 14 4.2W,3.9s ¶16401570
ISCJB III 31 17 21 34.6–.79 36.93N–.03 141.33E–.05 25–5 4.3b,3.8s
JMA III 31 17 21 35.9–.10 36.96N 141.22E 34–1 4.4,3.8s
IDC III 31 17 21 39.1–1.6 36.91N 141.23E 47–15 4.1,4.0
NEIC III 31 17 21 39.8–.81 36.93N 141.18E 53–7 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ47.00000°,λ-113.00000°. NP2:ϕ_s69.00000°,δ48.00000°,λ-67.00000°. $M_0$2.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.1km az=25.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=10.3km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.8km az=102.0. Recorded [3 JMA] in Fukushima.
(162) South Island
WEL III 31 17 28 03.3–.16 43.59S 172.66E 5–1 3.8L
¶16403634
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(228) Near east coast of eastern Honshu
ISC III 31 17 29 57.4–1.7 37.20N–.05 141.65E–.08 27–12 3.6b 23 1-155
IDC III 31 17 29 53.4–.95 37.19N 141.99E 0 3.8,3.6 ¶17199323
ISCJB III 31 17 29 56.5–1.4 37.13N–.04 141.68E–.08 26–9 3.6b,3.6
JMA III 31 17 30 00.1–.10 37.20N 141.43E 47–2 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=21.8km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.2km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 31 17 33 41.7–.10 39.21N 142.30E 42–1 3.6
¶602705021
JMA Event type fe.
(162) South Island
WEL III 31 17 54 35.5–.10 43.58S 172.71E 7–0 3.6L
¶16403635
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(460) Wyoming
ISC III 31 18 12 09.5–.89 44.13N–.05 105.51W–.04 0 23 1-19
ISCJB III 31 18 12 08.6–.62 44.07N–.07 105.48W–.08 0 ¶17199333
IDC III 31 18 12 10.7–1.5 44.03N 105.53W 0 3.5,3.2
NEIC III 31 18 12 10.7–.62 44.00N 105.23W 0 2.9L,3.2
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=11.1km s-min=6.1km az=146.8.
IDC Error ellipse: s-maj=43.8km s-min=8.1km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=10.9km s-min=6.7km az=132.0. 39 km [24 miles] SE of Gillette. Suspected Mining explosion.
(228) Near east coast of eastern Honshu
JMA III 31 18 16 52.0–.10 37.28N 141.21E 33–1 3.6
NIED III 31 18 16 00 37.30N 141.20E 26 3.4W ¶600574258
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ25.00000°,λ-62.00000°. NP2:ϕ_s232.00000°,δ68.00000°,λ-102.00000°. $M_0$1.50000×10^{14}
(249) Luzon
ISC III 31 18 31 01.8–1.2 13.93N–.05 124.14E–.06 28–8 3.8b 48 0-117
MAN III 31 18 30 00 13.88N 124.25E 33 3.6s,3.5b ¶16476004
IDC III 31 18 30 56.9–.61 13.74N 123.99E 0 3.9,3.8b
ISCJB III 31 18 31 00.9–.86 13.96N–.03 124.15E–.05 30–6 3.9b,2.9s
NEIC III 31 18 31 03.2–3.6 13.72N 124.02E 45–34 4.3b,2.9s
ISC Event type fe.
MAN Event type fe. INTENSITY II - VIGA CATANDUANES.
IDC Error ellipse: s-maj=29.2km s-min=13.9km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=154.5.
NEIC Event type fe. Error ellipse: s-maj=13.5km s-min=7.0km az=71.0. Felt [II PIVS] at Viga.
(229) Off east coast of Honshu
ISC III 31 19 35 03.0–.39 37.72N–.03 142.31E–.03 24–2 5.2b,4.8s 686 1-160
NIED III 31 19 34 00 37.70N 142.40E 17 5.0W,4.8s ¶17199341
ISCJB III 31 19 34 59.5–.78 37.69N–.02 142.32E–.02 9–4 5.1b,4.8s
IDC III 31 19 34 59.0–.38 37.67N 142.37E 0 4.9,4.9
JMA III 31 19 34 59.4–.20 37.72N 142.42E 14–3 5.2,4.9
BJI III 31 19 35 00.1 37.66N 142.14E 16 5.3b,5.3b
NEIC III 31 19 35 03.9–1.1 37.70N 142.27E 30–7 5.2b,4.7s
MOS III 31 19 35 03.9–.86 37.96N 142.24E 33 5.4b,4.8s
GCMT III 31 19 35 03.9–.30 37.85N 142.35E 15–0 5.1W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ11.00000°,λ-144.00000°. NP2:ϕ_s201.00000°,δ83.00000°,λ-81.00000°. $M_0$3.48000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=163.3.
IDC Error ellipse: s-maj=12.4km s-min=10.2km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=134.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=100.9.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s68,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.62±.09 $M_{\theta\theta}$-0.65±.07; $M_{\phi\phi}$1.28±.05; $M_{r\theta}$3.15±.32; $M_{\theta\phi}$0.07±.05; $M_{\phi r}$5.40±.46; Best double couple: NP1:ϕ_s210.00000°,δ87.00000°,λ-83.00000°. NP2:ϕ_s325.00000°,δ8.00000°,λ-155.00000°. Principal axes: T 6.4620,Plg41.0000°,Azm293.0000°; N -0.2260,Plg7.0000°,Azm30.0000°; P -6.2310,Plg48.0000°,Azm128.0000° $M_0$6.34600×10^{16}
(45) California-Baja California border region
ISC III 31 20 22 55.9–.72 32.39N–.02 115.23W–.02 8–4 4.1b,3.6s 127 0-92
IDC III 31 20 22 54.3–1.6 32.23N 115.28W 0 4.1,3.9b ¶16401580
ISCJB III 31 20 22 55.0–.46 32.41N–.02 115.20W–.02 13–3 3.8b,3.6s
ECX III 31 20 22 56.7–.65 32.37N 115.22W 6 4.4L,4.1
NEIC III 31 20 22 56.7 32.38N 115.22W 6 4.4L,4.2
MEX III 31 20 22 57.5–1.1 32.41N 115.20W 3–31 4.2,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=31.4km s-min=11.3km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.6km az=169.8.
ECX Error ellipse: s-maj=1.2km s-min=1.8km az=-1.0.
NEIC Event type fe. Felt [III] at Mexicali. Felt [II] at Calexico, El Centro and Imperial, California. Also felt at Brawley, Cardiff-by-the-Sea, Del Mar, El Cajon, Encinitas, Holtville, Palm Desert, San Jacinto, San Marcos and Valley Center. Felt [II] at Yuma, Arizona. After ECX.
MEX Error ellipse: s-maj=30.8km s-min=34.3km az=-1.0.
(228) Near east coast of eastern Honshu
ISC III 31 20 24 05.2–2.3 39.21N–.05 142.4E–.10 27–13 3.6b 23 1-63
IDC III 31 20 23 58.5–2.0 39.41N 143.04E 0 3.8,3.7 ¶17199349
NIED III 31 20 24 00 39.20N 142.40E 32 3.9W,3.7
ISCJB III 31 20 24 03.7–1.4 39.18N–.04 142.49E–.09 28–7 3.5b,3.2s
JMA III 31 20 24 05.5–.10 39.22N 142.39E 31–1 4.0,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=48.6km s-min=22.8km az=62.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ27.00000°,λ-157.00000°. NP2:ϕ_s156.00000°,δ80.00000°,λ-65.00000°. $M_0$6.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.2km az=178.8.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC III 31 20 35 27.1–1.7 37.37N–.04 141.78E–.07 26–11 4.1b 40 1-94
NIED III 31 20 35 00 37.40N 141.60E 50 3.9W ¶16476021
IDC III 31 20 35 22.6–1.0 37.51N 142.11E 0 4.0,4.0
NEIC III 31 20 35 27.3–.58 37.41N 142.03E 35 4.6b,4.0
ISCJB III 31 20 35 27.1–.84 37.32N–.03 141.81E–.07 45–7 4.2b,3.0s
JMA III 31 20 35 30.2–.10 37.38N 141.55E 44–2 3.8,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ23.00000°,λ105.00000°. NP2:ϕ_s19.00000°,δ68.00000°,λ84.00000°. $M_0$7.42000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=18.9km az=93.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.7km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.6km az=5.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 31 21 28 49.7–.10 37.41N 141.27E 25–1 3.5
NIED III 31 21 28 00 37.40N 141.30E 20 3.4W ¶600574456
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ35.00000°,λ6.00000°. NP2:ϕ_s58.00000°,δ87.00000°,λ125.00000°. $M_0$1.61000×10^{14}
(130) Catamarca Province
ISC III 31 21 41 12.3–.93 27.68S–.05 67.37W–.05 68–9 4.1b 41 1-149
SJA III 31 21 41 08.5–.89 27.66S 67.46W 18–4 4.6L,4.0W ¶16476031
IDC III 31 21 41 11.8–3.0 27.83S 67.10W 57–25 4.0,3.9L
NEIC III 31 21 41 11.9–1.1 27.64S 67.32W 62–11 4.6,4.1b
ISCJB III 31 21 41 11.7–.41 27.67S–.03 67.42W–.05 85–6 4.0b,4.1b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Aimogasta, Belen and Tinogasta; [III] at Catamarca and La Rioja.
ISCJB Event type fe.
(249) Luzon
ISC III 31 22 01 13.1–1.3 15.68N–.03 120.17E–.04 14–9 4.1b,3.4s 66 0-91
IDC III 31 22 01 10.0–.60 15.52N 120.18E 0 4.1,4.0b ¶16459665
NEIC III 31 22 01 14.4–3.3 15.53N 120.33E 29–24 4.3b,4.0b
MAN III 31 22 01 15 15.74N 120.01E 30 5.1b,4.2s
ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=14.1km az=70.0.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=7.8km az=72.0. Felt [III PIVS] at Infanta, Mangatarem and Santa Cruz and [II PIVS] at Bugallon.
MAN Event type fe. INTENSITY III - INFANTA & MANGATAREM PANGASINAN; STA CRUZ ZAMBALES.
(228) Near east coast of eastern Honshu
ISC III 31 22 16 56.6–1.2 38.27N–.05 141.82E–.08 50–9 4.2b 91 0-146
NIED III 31 22 16 00 38.30N 141.70E 50 4.2W ¶602443955
ISCJB III 31 22 16 55.8–.62 38.30N–.04 141.81E–.06 57–4 4.2b,3.5s
NEIC III 31 22 16 56.9–.77 38.22N 141.90E 56–7 4.5b,3.5s
IDC III 31 22 16 57.7–1.9 38.30N 141.76E 57–17 4.2,4.1
JMA III 31 22 16 57.0–.10 38.30N 141.74E 51–1 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ38.00000°,λ-112.00000°. NP2:ϕ_s60.00000°,δ55.00000°,λ-74.00000°. $M_0$2.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=30.1.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.3km az=130.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=12.9km s-min=10.9km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA III 31 22 24 01.2–.10 38.70N 142.16E 36–2 3.6
¶602704670
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC III 31 22 25 46.8–.44 37.83N–.04 143.43E–.04 23–2 4.8b,4.4s 495 2-154
NIED III 31 22 25 00 37.90N 143.40E 11 4.9W,4.4s ¶600574520
IDC III 31 22 25 43.4–.46 37.84N 143.49E 0 4.7,4.6
ISCJB III 31 22 25 44.2–.88 37.86N–.03 143.36E–.02 12–5 4.8b,4.3s
JMA III 31 22 25 46.1–.30 37.86N 143.40E 45 4.9,4.3s

MOS III 31 22 25 47.3–1.1 37.93N 143.35E 33 5.1b,4.4s
BJI III 31 22 25 47.6 37.93N 142.98E 25 5.1b,5.1b
NEIC III 31 22 25 49.0–.14 37.83N 143.36E 35 4.8b,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S62.00000°,δ61.00000°,λ-4.00000°. NP2:ϕ_S155.00000°,δ86.00000°,λ-151.00000°. $M_0$2.29000×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=10.6km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=157.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=105.3.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=146.0.

(228) Near east coast of eastern Honshu

JMA III 31 23 11 50.2–.10 38.18N 141.61E 56–1 3.5 ¶602704618

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC III 31 23 30 27.9–1.1 35.73N–.05 140.97E–.08 35–3 3.5b 21 0-75
IDC III 31 23 30 22.1–1.2 35.59N 141.09E 0 3.7,3.5 **¶17199364**
ISCJB III 31 23 30 26.0–1.1 35.77N–.06 141.2E–.10 35–9 3.5b,2.6s
JMA III 31 23 30 27.6–.10 35.74N 140.96E 34–1 3.2,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=27.0km s-min=24.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=16.9km s-min=9.3km az=159.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(543) Germany

ISC IV 01 00 36 34.8–.75 51.47N–.02 6.51E–.02 0 175 0-7
ISCJB IV 01 00 36 34.2–.37 51.49N–.02 6.44E–.03 0 **¶16414352**
BUG IV 01 00 36 35.8 51.54N 6.60E 1 2.3L
CSEM IV 01 00 36 35.6–.22 51.48N 6.53E 1 3.1L
LDG IV 01 00 36 36.8–.10 51.48N 6.54E 1 3.5,3.1L
BNS IV 01 00 36 36.4–.87 51.50N 6.58E 1 2.4L,3.1L
BGR IV 01 00 36 37.0–.59 51.47N 6.60E 1 2.5L,3.1L
UCC IV 01 00 36 37.7 51.51N 6.73E 10 2.2L,3.1L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.5km s-min=2.3km az=43.0.
GDNRW Event type fi.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=3.3km az=139.0.
LDG Event type sr. Error ellipse: s-maj=2.1km s-min=1.4km az=149.0. Suspected Mining induced.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=10.0km s-min=4.4km az=124.0.
UCC Event type ki.

(228) Near east coast of eastern Honshu

ISC IV 01 01 01 01.8–1.5 36.36N–.04 141.11E–.07 28–10 3.9b,3.2s 31 1-91
NIED IV 01 01 01 00 36.30N 141.00E 35 4.0W,3.2s **¶16509606**
IDC IV 01 01 01 01.4–6.0 35.51N 141.10E 65–37 3.8L,3.7
ISCJB IV 01 01 01 02.3–.80 36.33N–.04 141.09E–.08 45–6 3.8b,3.4s
NEIC IV 01 01 01 02.3–2.9 36.02N 141.17E 47–17 4.1b,3.4s
JMA IV 01 01 01 02.7–.10 36.33N 141.03E 47–1 3.7,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S222.00000°,δ13.00000°,λ111.00000°. NP2:ϕ_S20.00000°,δ78.00000°,λ85.00000°. $M_0$1.04000×10^{15}
IDC Error ellipse: s-maj=85.7km s-min=25.1km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.0km az=3.3.
NEIC Event type se. Error ellipse: s-maj=58.9km s-min=18.0km az=172.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC IV 01 01 54 24.4–.51 37.02N–.05 142.14E–.05 10 4.1b 72 1-146
ISCJB IV 01 01 54 22.5–.36 37.00N–.04 142.35E–.04 10 4.1b **¶16509603**
JMA IV 01 01 54 23.7–.30 36.99N 142.30E 18–4 4.2
MOS IV 01 01 54 26.0–1.1 37.05N 142.32E 35 4.3b
IDC IV 01 01 54 29.9–2.0 36.95N 142.17E 52–19 4.1,4.1L
NEIC IV 01 01 54 29.0–1.1 37.05N 142.25E 43–9 4.2b,4.1L
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=154.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=7.5km az=85.4.
IDC Error ellipse: s-maj=16.1km s-min=11.2km az=105.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.4km az=134.0.

(229) Off east coast of Honshu

ISC IV 01 03 23 18.9–.41 37.64N–.03 143.36E–.03 25–2 4.9b,4.5s 535 2-154
NIED IV 01 03 23 00 37.70N 143.40E 14 4.7W,4.5s **¶16401595**
ISCJB IV 01 03 23 15.2–.80 37.64N–.02 143.34E–.02 9–5 4.9b,4.4s
IDC IV 01 03 23 15.2–.41 37.63N 143.42E 0 4.8,4.7
BJI IV 01 03 23 17.8 37.76N 143.20E 20 5.1b,5.0b
JMA IV 01 03 23 17.4–.20 37.66N 143.39E 45 4.9,5.0b
MOS IV 01 03 23 18.1–.93 37.70N 143.33E 28 5.1b,4.5s
NEIC IV 01 03 23 20.3–.38 37.62N 143.34E 33–2 4.9b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S347.00000°,δ27.00000°,λ-129.00000°. NP2:ϕ_S209.00000°,δ69.00000°,λ-72.00000°. $M_0$1.47000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=162.0.
IDC Error ellipse: s-maj=11.7km s-min=10.3km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=108.1.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.0km az=151.0.

(228) Near east coast of eastern Honshu

ISC IV 01 03 36 22.5–.74 38.46N–.04 142.30E–.04 17–4 4.2b 98 1-151
NIED IV 01 03 36 00 38.50N 142.20E 20 4.2W **¶16506146**
ISCJB IV 01 03 36 20.5–.99 38.42N–.03 142.35E–.05 16–6 4.1b,3.6s
JMA IV 01 03 36 22.9–.10 38.46N 142.24E 32–2 4.4,3.6s
MOS IV 01 03 36 23.1–1.3 38.52N 142.39E 34 4.4b,3.6s
NEIC IV 01 03 36 23.1–2.3 38.41N 142.26E 19–14 4.6b,3.6s
IDC IV 01 03 36 27.4–2.1 38.36N 142.23E 54–19 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S142.00000°,δ26.00000°,λ-62.00000°. NP2:ϕ_S291.00000°,δ67.00000°,λ-103.00000°. $M_0$1.99000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=27.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=6.1km az=87.3.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.8km az=103.0.
IDC Error ellipse: s-maj=16.0km s-min=11.2km az=95.0.

(228) Near east coast of eastern Honshu

ISC IV 01 04 14 17.6–1.7 38.38N–.04 142.02E–.07 26–12 4.0b 35 1-89
NIED IV 01 04 14 00 38.40N 142.00E 44 3.9W **¶16509605**
ISCJB IV 01 04 14 17.7–.89 38.37N–.04 142.05E–.08 41–8 3.8b
NEIC IV 01 04 14 19.2–.60 38.41N 142.20E 35 4.5b
JMA IV 01 04 14 19.0–.10 38.44N 141.96E 42–1 3.8
IDC IV 01 04 14 20.9–2.5 38.32N 142.10E 55–24 3.8,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S29.00000°,δ39.00000°,λ180.00000°. NP2:ϕ_S119.00000°,δ90.00000°,λ51.00000°. $M_0$7.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.9km az=12.5.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=8.3km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=13.4km az=97.0.

(228) Near east coast of eastern Honshu

ISC IV 01 04 51 44.2–1.2 36.2N–.10 140.51E–.08 50 3.5b 19 0-91
IDC IV 01 04 51 39.7–3.8 34.83N 139.97E 59–32 3.6,3.5 **¶17199383**
ISCJB IV 01 04 51 42.7–1.1 36.18N–.10 140.59E–.08 50 3.5b,3.5
JMA IV 01 04 51 44.1–.10 36.25N 140.48E 51–1 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=25.2km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=8.7km az=160.5.
JMA Event type fe.

(307) Sichuan

ISC IV 01 05 07 10.7–.39 31.49N–.03 104.17E–.04 14 4.4b,3.1s 132 1-148
IDC IV 01 05 07 09.6–.59 31.58N 104.11E 0 4.3,4.2 **¶16401598**
ISCJB IV 01 05 07 10.0–.25 31.56N–.03 104.10E–.04 14 4.4b,3.3s
BJI IV 01 05 07 11.5 31.59N 104.01E 10 4.4b,4.3L
MOS IV 01 05 07 13.1–.76 31.62N 104.15E 33 4.4b,4.3L
NEIC IV 01 05 07 13.6–.96 31.56N 104.16E 25–7 4.7b,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=22.9km s-min=12.8km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.8km az=29.9.
MOS Error ellipse: s-maj=9.9km s-min=6.2km az=109.4.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.9km az=211.0. Felt [II] at Chengdu.

(228) Near east coast of eastern Honshu

ISC IV 01 05 16 38.8–1.2 38.53N–.05 141.75E–.09 51–9 3.6b 27 0-73
NIED IV 01 05 16 00 38.50N 141.70E 68 3.8W **¶17199386**
ISCJB IV 01 05 16 37.8–.83 38.51N–.05 141.76E–.09 60–5 4.1s,3.6b
JMA IV 01 05 16 38.8–.10 38.54N 141.71E 55–1 3.8,3.6b
IDC IV 01 05 16 43.4–3.0 38.46N 141.57E 96–27 4.1s,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S257.00000°,δ22.00000°,λ120.00000°. NP2:ϕ_S46.00000°,δ71.00000°,λ78.00000°. $M_0$5.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.5km az=20.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.0km s-min=16.8km az=85.0.

(134) Off coast of central Chile

ISC IV 01 05 38 07.7–.51 39.55S–.06 74.97W–.08 35 4.5b,3.5s 54 1-175
IDC IV 01 05 38 02.8–.78 39.45S 75.10W 0 4.2,4.0 **¶601517001**
ISCJB IV 01 05 38 06.1–.38 39.58S–.05 74.95W–.06 33 4.4b,3.4s
GUC IV 01 05 38 06.4–.33 39.21S 71.76W 18–2 3.9L,3.4s
NEIC IV 01 05 38 06.3–3.7 39.58S 75.09W 23–26 4.6b,3.4s
ISC Event type fe.
IDC Error ellipse: s-maj=23.1km s-min=22.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=38.3.
GUC Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=8.5km az=91.0. Felt at Osorno and Valdivia.

(229) Off east coast of Honshu

ISC IV 01 06 44 07.5–3.6 37.56N–.05 142.84E–.07 1–22 4.3b 57 1-151
JMA IV 01 06 44 10.6–.20 37.58N 142.67E 14 4.3 **¶16485457**
NEIC IV 01 06 44 17.3–.85 37.52N 142.84E 79–7 4.3b
IDC IV 01 06 44 18.2–2.6 37.52N 142.83E 87–24 4.1,4.0
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.4km az=137.0.
IDC Error ellipse: s-maj=16.0km s-min=14.6km az=105.0.

(228) Near east coast of eastern Honshu

ISC IV 01 07 44 36.3–.66 38.19N–.05 142.10E–.06 30 3.8b 40 1-151
ISCJB IV 01 07 44 34.5–.50 38.17N–.04 142.27E–.05 30 3.9s,3.8b **¶600574895**
JMA IV 01 07 44 36.4–.20 38.28N 142.20E 39–3 4.0,3.8b
NEIC IV 01 07 44 39.6–1.3 38.23N 142.22E 58–12 4.4b,3.8b
IDC IV 01 07 44 43.3–2.8 38.18N 142.00E 93–25 3.8s,3.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.0km az=149.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=11.8km az=116.0.
IDC Error ellipse: s-maj=19.2km s-min=15.8km az=91.0.

(228) Near east coast of eastern Honshu

ISC IV 01 08 13 28.3–.97 36.72N–.03 140.59E–.05 9–6 3.5b 22 0-91
IDC IV 01 08 13 26.9–.94 36.72N 140.62E 0 3.7,3.5 **¶600574905**
ISCJB IV 01 08 13 27.2–.86 36.69N–.04 140.71E–.06 13–4 3.4b,3.5
JMA IV 01 08 13 28.4 36.73N 140.59E 7–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=20.9km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.7km az=28.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 01 08 25 23.3–1.2 36.98N–.03 140.83E–.07 11–7 3.5b 20 0-64
IDC IV 01 08 25 21.4–1.1 37.08N 141.26E 0 3.6,3.4b **¶17199399**
ISCJB IV 01 08 25 22.5–1.0 36.96N–.03 140.93E–.07 9–5 3.5b,3.4b
JMA IV 01 08 25 24.0 36.98N 140.77E 8–1 2.9,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=25.2km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.2km az=10.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 01 08 34 43.6–.86 36.30N–.06 140.47E–.06 51–6 3.7b 24 0-91
NIED IV 01 08 34 00 36.20N 140.50E 65 3.9W **¶17199400**
ISCJB IV 01 08 34 43.0–.61 36.28N–.05 140.50E–.07 57–4 3.7b
JMA IV 01 08 34 43.4–.10 36.25N 140.48E 52–1 3.5
IDC IV 01 08 34 46.9–1.8 36.14N 140.25E 84–17 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S218.00000°,δ22.00000°,λ120.00000°. NP2:ϕ_S6.00000°,δ71.00000°,λ78.00000°. $M_0$8.23000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=8.5km az=7.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S21.00000°,δ81.00000°,λ96.00000°. NP2:ϕ_S164.00000°,δ11.00000°,λ54.00000°. Principal axes: T Plg53.0000°,Azm298.0000°; N Plg6.0000°,Azm200.0000°; P Plg36.0000°,Azm105.0000°
IDC Error ellipse: s-maj=23.3km s-min=12.0km az=70.0.

(228) Near east coast of eastern Honshu

ISC IV 01 09 00 19.1–.69 40.15N–.07 142.85E–.07 12 4.0b,3.0s 32 1-87
NIED IV 01 09 00 00 40.10N 142.80E 26 4.0W,3.0s **¶16506148**
ISCJB IV 01 09 00 17.2–.51 40.12N–.06 142.99E–.06 12 3.9b,3.1s
JMA IV 01 09 00 20.7–.20 40.08N 142.81E 25–3 4.2,3.1s
IDC IV 01 09 00 25.0–2.9 40.03N 142.89E 64–26 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S219.00000°,δ17.00000°,λ95.00000°. NP2:ϕ_S34.00000°,δ73.00000°,λ88.00000°. $M_0$9.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=146.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=16.0km az=109.0.

(228) Near east coast of eastern Honshu

ISC IV 01 10 23 57.7–1.9 38.63N–.06 142.1E–.10 44–16 3.4b 27 1-62
NIED IV 01 10 23 00 38.60N 142.00E 59 3.9W **¶17199406**
ISCJB IV 01 10 23 56.9–1.1 38.62N–.05 142.1E–.10 54–8 3.4b
JMA IV 01 10 23 57.7–.10 38.62N 141.98E 53–1 3.8
IDC IV 01 10 24 00.5–3.3 38.64N 142.04E 74–30 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S320.00000°,δ57.00000°,λ-14.00000°. NP2:ϕ_S58.00000°,δ78.00000°,λ-146.00000°. $M_0$7.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.5km az=11.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.0km s-min=17.2km az=93.0.

(228) Near east coast of eastern Honshu

ISC IV 01 10 28 31.9–1.7 37.36N–.04 141.49E–.06 1–10 3.9b 43 1-146
NIED IV 01 10 28 00 37.40N 141.40E 32 4.1W **¶16506149**
ISCJB IV 01 10 28 33.2–.90 37.38N–.03 141.48E–.06 19–6 3.8b,3.2s
JMA IV 01 10 28 35.1–.10 37.41N 141.35E 32–2 4.1,3.2s
IDC IV 01 10 28 39.0–1.9 37.34N 141.26E 56–19 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S149.00000°,δ48.00000°,λ-39.00000°. NP2:ϕ_S268.00000°,δ62.00000°,λ-131.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.6km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.2km az=89.0.

(227) Eastern Honshu

ISC IV 01 10 49 46.4–.51 40.29N–.03 140.34E–.03 25–3 5.0b,4.3s 828 0-146
NIED IV 01 10 49 00 40.30N 140.40E 5 4.9W,4.3s **¶16402490**
IDC IV 01 10 49 42.7–.45 40.29N 140.28E 0 4.8,4.7
ISCJB IV 01 10 49 43.8–.39 40.27N–.02 140.29E–.02 15–2 4.9b,4.4s
JMA IV 01 10 49 44.1 40.26N 140.36E 12–1 5.0,4.4s
MOS IV 01 10 49 46.5–.97 40.28N 140.17E 35 5.1b,4.3s
BJI IV 01 10 49 48.6 40.35N 140.31E 60 5.0b,4.8s
GCMT IV 01 10 49 49.1–.20 40.37N 140.25E 17–0 5.0W,4.8s
NEIC IV 01 10 49 49.1–.47 40.30N 140.21E 40–4 5.0b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S26.00000°,δ46.00000°,λ135.00000°. NP2:ϕ_S150.00000°,δ60.00000°,λ54.00000°. $M_0$2.16000×10^{16}

IDC Error ellipse: s-maj=13.8km s-min=11.0km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=153.5.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s121.00000° ,δ80.00000°,λ25.00000°. NP2:ϕ_s26.00000°,δ65.00000°,λ169.00000°. Principal axes: T Plg25.0000°,Azm346.0000°; N Plg63.0000°,Azm141.0000°; P Plg10.0000°,Azm251.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=94.6.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c67; s92,c138; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.90±.14 $M_{\theta\theta}$0.88±.09; $M_{\phi\phi}$-3.78±.10; $M_{r\theta}$0.01±.28; $M_{\theta\phi}$0.13±.07; $M_{\phi r}$-1.65±.21; Best double couple: NP1:ϕ_s179.00000°,δ58.00000° ,λ91.00000°. NP2:ϕ_s357.00000°,δ32.00000°,λ88.00000°. Principal axes: T 3.2860,Plg77.0000°,Azm92.0000°; N 0.8810,Plg1.0000°,Azm359.0000° ; P -4.1690,Plg13.0000°,Azm268.0000° $M_0$3.72700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=162.0. Recorded [5U JMA] in Akita.

(227) Eastern Honshu

ISC	IV	01 11 24 29.2–1.2	40.32N–.04	140.46E–.04	2–9	3.9b	25	0-145
NIED	IV	01 11 24 00	40.30N	140.40E	11	3.8W		¶17199412
ISCJB	IV	01 11 24 29.0–.64	40.28N–.04	140.39E–.04	12–4	3.7b,3.1s		
IDC	IV	01 11 24 28.4–.84	40.23N	140.66E	0	3.9,3.7		
JMA	IV	01 11 24 29.0	40.26N	140.36E	12–1	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ54.00000°,λ-178.00000°. NP2:ϕ_s168.00000°,δ88.00000°,λ-36.00000°. $M_0$6.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=28.2.
IDC Error ellipse: s-maj=23.6km s-min=18.3km az=113.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ58.00000°,λ61.00000°. NP2:ϕ_s41.00000°,δ43.00000°,λ128.00000°. Principal axes: T Plg64.0000°,Azm32.0000°; N Plg25.0000°,Azm191.0000°; P Plg8.0000° ,Azm285.0000°

(228) Near east coast of eastern Honshu

ISC	IV	01 11 57 53.8–.28	39.38N–.02	142.03E–.03	40–1	5.9b,5.5s	2155	0-159
NIED	IV	01 11 57 00	39.30N	142.20E	50	5.9W,5.5s		¶16403135
BJI	IV	01 11 57 49.8	39.18N	142.26E	39	5.9b,5.7		
MOS	IV	01 11 57 52.9–.85	39.49N	141.96E	35	6.2b,5.8s		
ISCJB	IV	01 11 57 53.8–.26	39.31N–.01	142.01E–.01	50–2	5.8b,5.5s		
NEIC	IV	01 11 57 54.4–.07	39.32N	141.95E	41	6.0W,5.9		
JMA	IV	01 11 57 54.6–.10	39.34N	142.17E	45–1	6.0,5.9		
GCMT	IV	01 11 57 54.4–.10	39.38N	142.17E	48–0	5.9W,5.9		
NEIC	IV	01 11 57 54.0–.00	39.35N	142.18E	38	5.9W,5.9		
IDC	IV	01 11 57 55.4–1.2	39.32N	142.06E	51–10	5.7,5.5		
NEIC	IV	01 11 58 10.6–.00	39.42N	142.17E	42	5.7,5.5		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ69.00000°. NP2:ϕ_s28.00000°,δ68.00000°,λ99.00000°. $M_0$8.59000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=101.7.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=158.8.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=147.0. Felt [IV] at Misawa. Recorded [4 JMA] in Aomori, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s27.00000° ,δ69.00000°,λ102.00000°. Principal axes: T 1.1200,Plg65.0000°,Azm317.0000° ; N -0.0900,Plg11.0000°,Azm203.0000°; P -1.0300,Plg23.0000°,Azm108.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s264.00000°,δ38.00000° ,λ137.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ60.00000°. Principal axes: T Plg59.0000° ,Azm257.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000°,Azm141.0000°
JMA Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c270; s136,c413;Duration: 2^{s}3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.76±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.33±.01; $M_{\theta\phi}$-0.16±.01; $M_{\phi r}$0.57±.01; Best double couple: NP1:ϕ_s24.00000° ,δ66.00000°,λ99.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ70.00000°. Principal axes: T 1.0240,Plg68.0000°,Azm312.0000°; N -0.0250,Plg9.0000°,Azm200.0000° ; P -0.9980,Plg20.0000°,Azm106.0000° $M_0$1.01100×10^{18}
NEIC Event type se. Moment Tensor Solution. s51 Moment tensor: Scale 10^{17}Nm; M_{rr}5.04 $M_{\theta\theta}$-1.29 $M_{\phi\phi}$-3.75 $M_{r\theta}$2.28 $M_{\theta\phi}$-0.82 $M_{\phi r}$5.98 Best double couple: NP1:ϕ_s20.00000° ,δ72.00000°,λ91.00000°. NP2:ϕ_s195.00000°,δ18.00000°,λ86.00000°. Principal axes: T 8.3600,Plg62.0000°,Azm292.0000°; N -1.0500,Plg1.0000°,Azm199.0000° ; P -7.3100,Plg27.0000°,Azm108.0000° $M_0$7.90000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=8.0km az=76.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ22.00000° ,λ77.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ95.00000°. Principal axes: T 1.0400,Plg66.0000°,Azm298.0000°; N -0.0300,Plg5.0000°,Azm198.0000° ; P -1.0100,Plg24.0000°,Azm106.0000°

(229) Off east coast of Honshu

ISC	IV	01 12 15 06.2–.58	36.70N–.04	141.79E–.04	27–3	5.0b,4.9s	372	1-151
NIED	IV	01 12 15 00	36.70N	142.10E	23	5.1W,4.9s		¶16403136
JMA	IV	01 12 15 02.3–.30	36.66N	142.13E	23	4.9,4.9s		
ISCJB	IV	01 12 15 04.7–1.2	36.65N–.03	141.89E–.04	29–8	4.9b,4.7s		
MOS	IV	01 12 15 05.2–1.1	36.67N	141.82E	32	5.2b,4.7s		
IDC	IV	01 12 15 05.9–5.1	36.65N	141.87E	28–35	4.7s,4.7		
GCMT	IV	01 12 15 06.0–.40	36.63N	142.12E	31–1	5.1W,4.7		
NEIC	IV	01 12 15 06.0–1.9	36.72N	141.83E	24–13	5.0b,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ22.00000°,λ130.00000°. NP2:ϕ_s17.00000°,δ73.00000°,λ75.00000°. $M_0$4.37000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=20.0.
MOS Error ellipse: s-maj=7.7km s-min=4.5km az=120.9.
IDC Error ellipse: s-maj=13.9km s-min=10.5km az=107.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c12; s63,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.59±.40 $M_{\theta\theta}$0.70±.23; $M_{\phi\phi}$-2.89±.23; $M_{r\theta}$1.53±.26; $M_{\theta\phi}$-1.78±.10; $M_{\phi r}$2.86±.22; Best double couple: NP1:ϕ_s28.00000°,δ65.00000° ,λ89.00000°. NP2:ϕ_s210.00000°,δ25.00000°,λ91.00000°. Principal axes: T 4.8020,Plg70.0000°,Azm297.0000°; N 0.2970,Plg1.0000°,Azm29.0000° ; P -5.0950,Plg20.0000°,Azm119.0000° $M_0$4.94800×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=123.0.

(228) Near east coast of eastern Honshu

ISC	IV	01 12 45 25.6–1.3	39.65N–.05	142.2E–.10	44–10	3.8b	27	0-67
ISCJB	IV	01 12 45 25.1–.96	39.65N–.04	142.2E–.10	53–6	3.8b		¶17199420
JMA	IV	01 12 45 25.6–.10	39.63N	142.20E	44–1	3.7		
IDC	IV	01 12 45 30.2–3.1	39.52N	142.07E	94–28	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=6.8km az=178.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.7km s-min=20.0km az=88.0.

(460) Wyoming

ISC	IV	01 12 56 27.4–.94	43.02N–.02	110.29W–.02	0–7	3.8b	210	1-66
IDC	IV	01 12 56 27.2–.54	43.01N	110.39W	0	4.0,3.8		¶16403137
NEIC	IV	01 12 56 28.4–.18	43.01N	110.27W	5	4.1b,3.9W		

ISC Event type fe.
IDC Error ellipse: s-maj=9.2km s-min=4.8km az=16.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=87.0. Felt [III] at Bondurant, Dubois and Wilson; [II] at Daniel, Freedom, Jackson, Lander and Thayne. Also felt at Alta, Auburn, Cora, Etna, Green River, Kelly, Riverton and Rock Springs. Felt at Victor, Idaho. Moment Tensor Solution. s14 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.02 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$5.23 $M_{r\theta}$1.17 $M_{\theta\phi}$0.66 $M_{\phi r}$-6.79 Best double couple: NP1:ϕ_s200.00000°,δ20.00000°,λ-65.00000°. NP2:ϕ_s354.00000°,δ72.00000°,λ-99.00000°. Principal axes: T 8.6100,Plg26.0000° ,Azm91.0000°; N 0.0000,Plg8.0000°,Azm356.0000°; P -8.6200,Plg62.0000°,Azm250.0000° $M_0$8.60000×10^{14}

(370) Crete

ISC	IV	01 13 29 11.5–.23	35.73N–.02	26.55E–.02	76–1	6.1b	3210	1-167
NSSC	IV	01 13 29 06.7–.60	35.66N	26.65E	33–131	5.6L		¶600575114
HLW	IV	01 13 29 08.5	35.74N	26.73E	33–13	5.8L		
NIC	IV	01 13 29 08.2–.20	35.54N	26.63E	60	5.8L		
ISK	IV	01 13 29 08.4	35.50N	26.58E	57	6.2L		
PDG	IV	01 13 29 09.3–.28	34.99N	25.71E	12–5	6.1,6.0L		
NEIC	IV	01 13 29 10.7	35.66N	26.56E	60	6.2,6.2b		
CSEM	IV	01 13 29 10.6–.08	35.57N	26.60E	80	6.1b,6.1W		
ATH	IV	01 13 29 10.6	35.64N	26.56E	63–2	6.2L,6.1W		
BJI	IV	01 13 29 10.2	35.70N	26.50E	80	5.9b,5.8b		
GCMT	IV	01 13 29 10.7–.10	35.49N	26.67E	76–0	6.1W,5.8b		
ISCJB	IV	01 13 29 10.0–.13	35.66N–.01	26.578E–.01	75–1	6.0b,5.8b		
IDC	IV	01 13 29 11.4–.52	35.79N	26.50E	74–4	5.9,5.7		
MOS	IV	01 13 29 11.4–1.0	35.74N	26.51E	89	6.4b,5.3s		
SFS	IV	01 13 29 11.0	35.54N	26.03E	60	6.0L,5.3s		
PDA	IV	01 13 29 12.1	35.72N	26.55E	80	6.1W,5.3s		
THE	IV	01 13 29 12.6	35.65N	26.57E	44–2	6.2L,5.3s		
NEIC	IV	01 13 29 12.0–.00	35.73N	26.65E	77	6.2L,5.3s		
GII	IV	01 13 29 13.6–.00	35.16N	27.27E	5–0	6.1,5.8b		
NEIC	IV	01 13 29 20.3–.00	35.91N	26.46E	54	6.1,5.8b		
DDA	IV	01 13 29 43.8	35.48N	26.40E	9	6.2L,5.8b		

ISC Event type fe.
NSSC Error ellipse: s-maj=7.7km s-min=95.4km az=-1.0.
NIC Event type fe. Felt I=II at Pafos, Lemesos, Lefkosia.
PDG Event type ke. Error ellipse: s-maj=11.2km s-min=8.3km az=90.0.
NEIC Event type fe. Felt [VI] at Karpathos; [V] at Skhisma and Thira; [IV] at Gazion, Ierapetra, Irakleion, Lardos, Neapolis and Siteia; [III] at Ayios Nikolaos, Chania, Kos, Koutouloufarion, Malia, Neon Karlovasion, Paros, Rodos and Trianta. Felt [IV] at Dalaman and Fethiye; [III] at Alanya, Antalya and Marmaris, Turkey. Felt [IV] at Ismailia and [III] at Alexandria, Al Jizeh, Az Zaqaziq, Cairo and Tanta, Egypt. Felt [III] at Ra'anana, Israel and at Sliema, Malta. Felt widely in Cyprus, northern Egypt, southern Greece, Israel, Malta and southwestern Turkey. Also felt in Lebanon. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After ATH. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}0.16 $M_{\theta\theta}$1.29 $M_{\phi\phi}$-1.45 $M_{r\theta}$0.65 $M_{\theta\phi}$-0.31 $M_{\phi r}$0.17 Best double couple: NP1:ϕ_s144.00000°,δ67.00000°,λ11.00000°. NP2:ϕ_s49.00000° ,δ80.00000°,λ156.00000°. Principal axes: T 1.6000,Plg24.0000°,Azm4.0000° ; N -0.0800,Plg64.0000°,Azm207.0000°; P -1.5200,Plg9.0000°,Azm98.0000° $M_0$1.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ73.00000°,λ148.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ20.00000°. Principal axes: T Plg34.0000°,Azm6.0000°; N Plg0.0000°,Azm0.0000°; P Plg8.0000° ,Azm102.0000°
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=5.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.4km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c285; s137,c437;Duration: 2^{s}9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.17±.01 $M_{\theta\theta}$1.78±.01; $M_{\phi\phi}$-1.94±.01; $M_{r\theta}$0.58±.01; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$0.31±.01; Best double couple: NP1:ϕ_s50.00000° ,δ85.00000°,λ161.00000°. NP2:ϕ_s142.00000°,δ71.00000°,λ5.00000°. Principal axes: T 1.9880,Plg17.0000°,Azm5.0000°; N 0.0680,Plg70.0000°,Azm217.0000° ; P -2.0490,Plg10.0000°,Azm98.0000° $M_0$2.01800×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.1km az=4.9.
IDC Error ellipse: s-maj=6.2km s-min=4.8km az=146.0.
MOS Error ellipse: s-maj=4.2km s-min=2.4km az=93.0.
SFS Event type ke.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.5km az=155.0.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{18}Nm; M_{rr}0.02 $M_{\theta\theta}$1.13 $M_{\phi\phi}$-1.15 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.35 $M_{\phi r}$0.55 Best double couple: NP1:ϕ_s234.00000° ,δ84.00000°,λ-153.00000°. NP2:ϕ_s141.00000°,δ64.00000°,λ-6.00000°. Principal axes: T 1.2500,Plg14.0000°,Azm4.0000°; N 0.1900,Plg62.0000°,Azm245.0000° ; P -1.4500,Plg22.0000°,Azm100.0000° $M_0$1.40000×10^{18}
GII Event type ke.
NEIC Event type se. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}0.04 $M_{\theta\theta}$1.70 $M_{\phi\phi}$-1.74 $M_{r\theta}$0.54 $M_{\theta\phi}$-0.33 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s141.00000° ,δ72.00000°,λ4.00000°. NP2:ϕ_s50.00000°,δ86.00000°,λ162.00000°. Principal axes: T 1.8700,Plg16.0000°,Azm4.0000°; N -0.0600,Plg72.0000°,Azm217.0000° ; P -1.8200,Plg10.0000°,Azm97.0000° $M_0$1.90000×10^{18}

(228) Near east coast of eastern Honshu

ISC	IV	01 13 30 28.9–.60	38.43N–.05	142.19E–.07	41	4.2b	41	1-74
NIED	IV	01 13 30 00	38.50N	142.20E	20	4.3W		¶17199424
IDC	IV	01 13 30 23.6–.61	38.33N	142.36E	0	4.1,4.0		
NEIC	IV	01 13 30 24.9–.47	38.40N	142.36E	10	4.6b,4.0		
ISCJB	IV	01 13 30 26.7–.45	38.43N–.04	142.22E–.05	41	4.1b,4.0		
JMA	IV	01 13 30 26.5–.20	38.47N	142.24E	33–3	4.3,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ22.00000°,λ-47.00000°. NP2:ϕ_s273.00000°,δ74.00000°,λ-105.00000°. $M_0$3.57000×10^{15}
IDC Error ellipse: s-maj=20.2km s-min=11.9km az=113.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=5.8km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=135.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(370) Crete

ISC	IV	01 13 45 23.6–.42	35.53N–.02	26.63E–.02	67–4	4.2b	604	0-80
HLW	IV	01 13 45 21.7	35.70N	26.67E	33–17	4.2L		¶16403914
ISCJB	IV	01 13 45 22.2–.16	35.43N–.02	26.66E–.01	77–2	4.0b		
CSEM	IV	01 13 45 23.6–.09	35.41N	26.64E	80	4.2L		
ISK	IV	01 13 45 23.6	35.69N	26.63E	17	4.1L		
NEIC	IV	01 13 45 24.3	35.65N	26.55E	58	4.3b		
NIC	IV	01 13 45 24.7–.30	35.84N	26.90E	66	4.4b,4.0L		
DDA	IV	01 13 45 24.8	35.90N	26.61E	19	4.0,4.0L		
ATH	IV	01 13 45 24.4	35.65N	26.55E	58–3	4.2L,4.0L		
IDC	IV	01 13 45 25.5–1.1	35.69N	26.43E	76–12	4.3,4.1		
THE	IV	01 13 45 26.5	35.64N	26.54E	34–5	4.4L,4.1		
GII	IV	01 13 45 29.4–.00	35.00N	27.42E	1–1	4.2b,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=28.0.
NEIC Event type fe. Felt at Chania, Lardos, Mouzouras and Paros. Also felt at Fethiye and Marmaris, Turkey. After ATH.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=0.6km az=147.0.
IDC Error ellipse: s-maj=19.1km s-min=11.2km az=157.0.
THE Event type ke. Error ellipse: s-maj=5.4km s-min=0.5km az=157.0.
GII Event type ke.

(718) Hindu Kush region

ISC	IV	01 13 50 54.0–.31	36.54N–.03	70.97E–.04	188–2	4.7b	372	3-150
ISCJB	IV	01 13 50 51.5–.27	36.51N–.02	70.95E–.03	175–3	4.7b		¶16403145
NEIC	IV	01 13 50 52.9–.57	36.49N	70.98E	180–5	4.8b		
BJI	IV	01 13 50 52.4	36.58N	70.84E	190	5.1b,4.6b		
MOS	IV	01 13 50 52.2–.96	36.51N	71.01E	184	4.9b,4.6b		
IDC	IV	01 13 50 54.0–.43	36.48N	70.98E	191–3	4.7,4.3		
NNC	IV	01 13 50 57.4–2.0	36.94N	70.75E	190–13	5.0,4.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=147.3.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=222.0. Felt at Charikar, Jalalabad and Kabul. Also felt at Mansehra and Peshawar, Pakistan.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=101.3.
IDC Error ellipse: s-maj=9.3km s-min=7.0km az=46.0.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=9.3km az=164.0.

(228) Near east coast of eastern Honshu

ISC	IV	01 14 12 09.7–.57	35.84N–.04	140.84E–.07	33	3.7b	32	0-148
IDC	IV	01 14 12 04.0–.69	35.70N	140.77E	0	3.9,3.8		¶16545140
ISCJB	IV	01 14 12 07.9–.46	35.84N–.04	141.04E–.06	33	3.7b,3.8		
JMA	IV	01 14 12 09.3–.10	35.86N	140.91E	37–1	3.5,3.8		
NEIC	IV	01 14 12 12.0–1.0	35.72N	140.70E	60–9	4.6b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=17.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=174.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s353.00000°,δ79.00000°,λ53.00000°. NP2: ϕ_s249.00000°,δ39.00000°,λ163.00000°. Principal axes: T Plg43.0000°,Azm227.0000° ; N Plg37.0000°,Azm1.0000°; P Plg25.0000°,Azm111.0000°
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.5km az=75.0.

(228) Near east coast of eastern Honshu

ISC	IV	01 14 44 35.3–.33	36.29N–.03	141.62E–.03	35–1	5.4b,5.0s	1214	1-161
NIED	IV	01 14 44 00	36.20N	141.70E	23	5.3W,5.0s		¶16403147
IDC	IV	01 14 44 30.2–.34	36.24N	141.52E	0	5.0,5.0		
ISCJB	IV	01 14 44 32.5–.56	36.26N–.02	141.57E–.02	23–3	5.3b,5.0s		
BJI	IV	01 14 44 32.5	36.27N	141.43E	21	5.3b,5.2s		
JMA	IV	01 14 44 32.5–.20	36.24N	141.65E	63–4	5.2,5.2s		
MOS	IV	01 14 44 33.7–1.1	36.26N	141.49E	32	5.6b,5.2s		
GCMT	IV	01 14 44 35.1–.40	36.20N	141.54E	25	5.3W,5.2s		

NEIC IV 01 14 44 35.1–.46 36.23N 141.50E 31–3 5.4b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S184.00000°,δ12.00000°,λ82.00000°. NP2:ϕ_S12.00000°,δ78.00000°,λ92.00000°. M_o8.54000×10^{16}
IDC Error ellipse: s-maj=10.2km s-min=7.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=170.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=111.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s73,c104; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.56±.04 $M_{\theta\theta}$-0.08±.03; $M_{\phi\phi}$-0.48±.03; $M_{r\theta}$-0.01±.07; $M_{\theta\phi}$0.04±.02; $M_{\phi r}$1.11±.05; Best double couple: NP1:ϕ_S359.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_S173.00000°,δ13.00000°,λ84.00000°. Principal axes: T 1.2660,Plg58.0000°,Azm271.0000°; N -0.0750,Plg1.0000°,Azm179.0000°; P -1.1910,Plg32.0000°,Azm88.0000° M_o1.22900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=146.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 14 59 16.0–1.3**	**36.28N–.04**	**140.77E–.05**	**16–8**	**3.8b**	**26**	**0-75**
ISCJB	IV	01 14 59 16.3–.70	36.25N–.04	140.83E–.06	35–7	3.8b		¶17199436
JMA	IV	01 14 59 16.9	36.25N	140.83E	36–1	3.9		
IDC	IV	01 14 59 16.7–.86	36.87N	140.62E	0	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=7.1km az=172.7.
JMA Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=19.3km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 15 36 24.6–.62**	**36.31N–.04**	**141.03E–.07**	**32**	**3.7b**	**28**	**0-79**
IDC	IV	01 15 36 19.6–.74	36.29N	141.09E	0	3.8,3.8		¶17199438
ISCJB	IV	01 15 36 22.7–.53	36.32N–.04	141.19E–.06	32	3.7b,3.8		
JMA	IV	01 15 36 24.5–.10	36.30N	141.02E	47–1	3.8,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=15.1km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=9.3.
JMA Event type fe.

(136) Central Chile

ISC	**IV**	**01 15 58 37.7–2.1**	**35.12S–.05**	**72.12W–.09**	**24–15**	**4.1b**	**36**	**0-85**
IDC	IV	01 15 58 34.5–1.6	34.88S	71.61W	0	4.3L,4.0		¶16525076
SJA	IV	01 15 58 37.0–.65	35.22S	71.93W	205–22	4.0L,3.7W		
NEIC	IV	01 15 58 40.0	35.13S	71.89W	42	4.3b,3.7W		
GUC	IV	01 15 58 40.0–.66	35.13S	71.89W	42–2	4.4L,3.7W		

ISC Event type fe.
IDC Error ellipse: s-maj=63.7km s-min=32.8km az=77.0.
SJA Error ellipse: s-maj=17.0km s-min=19.8km az=-1.0.
NEIC Event type fe. Felt [IV] at Iloca, Linares, Longavi and Talca; [III] at Chepica, Chimbarongo, Hualane, Lolol, Pencahue, San Fernando and Santa Cruz; [II] at Cauquenes, Chanco, Constitucion, Curico, Molina, Paredones, Pelluhue, Rancagua, Rio Claro and San Clemente. After GUC.
GUC Error ellipse: s-maj=2.5km s-min=4.1km az=-1.0.

(99) Northern Colombia

ISC	**IV**	**01 16 27 43.4–.42**	**6.82N–.03**	**72.96W–.03**	**165–3**	**4.5b**	**529**	**0-154**
ISCJB	IV	01 16 27 42.2–.17	6.75N–.02	72.97W–.02	165–1	4.5b		¶16403917
NEIC	IV	01 16 27 43.6–.53	6.67N	72.93W	167–5	4.6b		
IDC	IV	01 16 27 43.5–.41	6.73N	72.95W	163–3	4.5,4.2		
FUNV	IV	01 16 27 44.7	6.85N	73.07W	172	3.7W,4.2		
BJI	IV	01 16 27 44.0	6.70N	73.00W	177	3.7W,4.2		
RSNC	IV	01 16 27 45.1–1.0	6.76N	73.16W	151–5	4.6L,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=142.5.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=71.0. Felt at Los Santos.
IDC Error ellipse: s-maj=8.9km s-min=6.6km az=119.0.
RSNC Error ellipse: s-maj=3.3km s-min=4.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**IV**	**01 17 03 46.8–.34**	**40.34N–.03**	**143.33E–.03**	**27–2**	**5.4b,5.2s**	**1091**	**1-161**
NIED	IV	01 17 03 00	40.30N	143.50E	20	5.6W,5.2s		¶16403151
IDC	IV	01 17 03 42.6–.41	40.24N	143.39E	0	5.1,5.1s		
JMA	IV	01 17 03 43.3–.40	40.30N	143.37E	3–3	5.5,5.1s		
BJI	IV	01 17 03 44.5	40.22N	143.13E	19	5.6b,5.6s		
ISCJB	IV	01 17 03 45.4–.56	40.33N–.02	143.25E–.02	23–3	5.3b,5.2s		
NEIC	IV	01 17 03 46.4–.46	40.28N	143.21E	20–3	5.5W,5.4b		
MOS	IV	01 17 03 46.7–1.0	40.41N	143.19E	29	5.6b,5.4s		
GCMT	IV	01 17 03 46.4–.10	40.27N	143.54E	22–0	5.6W,5.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S157.00000°,δ28.00000°,λ35.00000°. NP2:ϕ_S36.00000°,δ75.00000°,λ114.00000°. M_o2.54000×10^{17}
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=146.0. Recorded [3 JMA] in Aomori. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-1.08 $M_{r\theta}$0.93 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.55 Best double couple: NP1:ϕ_S163.00000°,δ18.00000°,λ47.00000°. NP2:ϕ_S28.00000°,δ77.00000°,λ103.00000°. Principal axes: T 2.0500,Plg56.0000°,Azm315.0000°; N 0.0400,Plg12.0000°,Azm205.0000°; P -2.0900,Plg31.0000°,Azm108.0000° M_o2.10000×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=106.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c172; s129,c302;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.95±.04 $M_{\theta\theta}$-0.10±.02; $M_{\phi\phi}$-1.85±.03; $M_{r\theta}$0.88±.05; $M_{\theta\phi}$-0.41±.02; $M_{\phi r}$2.09±.06; Best double couple: NP1:ϕ_S20.00000°,δ70.00000°,λ95.00000°. NP2:ϕ_S185.00000°,δ21.00000°,λ76.00000°. Principal axes: T 3.0090,Plg65.0000°,Azm299.0000°; N -0.0470,Plg5.0000°,Azm198.0000°; P -2.9650,Plg25.0000°,Azm106.0000° M_o2.98700×10^{17}

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 18 00 58.1–1.7**	**38.34N–.04**	**142.19E–.06**	**17–10**	**3.8b**	**49**	**1-78**
IDC	IV	01 18 00 55.9–.92	38.30N	142.13E	0	3.9L,3.8		¶16532003
JMA	IV	01 18 01 00.3–.10	38.38N	142.08E	36–2	4.1,3.8		
NEIC	IV	01 18 01 01.5–.79	38.30N	142.27E	45–8	4.5b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=17.4km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.9km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 18 26 05.2–2.0**	**38.95N–.05**	**142.40E–.08**	**9–10**	**3.7b**	**24**	**1-59**
NIED	IV	01 18 26 00	39.00N	142.40E	59	3.8W		¶17199453
ISCJB	IV	01 18 26 05.5–1.3	38.93N–.04	142.42E–.08	19–7	3.5b		
JMA	IV	01 18 26 06.9–.10	38.99N	142.37E	33–2	4.0		
IDC	IV	01 18 26 11.9–3.6	38.81N	142.34E	68–34	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S150.00000°,δ45.00000°,λ-10.00000°. NP2:ϕ_S247.00000°,δ83.00000°,λ-135.00000°. M_o5.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.7km az=22.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=21.8km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 18 45 26.5–1.1**	**36.84N–.05**	**141.36E–.06**	**43–10**	**4.0b**	**58**	**1-79**
IDC	IV	01 18 45 20.9–.93	37.02N	141.53E	0	4.0,4.0s		¶16532005
ISCJB	IV	01 18 45 25.5–.63	36.84N–.03	141.40E–.06	51–5	4.1b,4.1s		
NEIC	IV	01 18 45 27.8–.97	36.89N	141.43E	55–9	4.4b,4.1s		
JMA	IV	01 18 45 28.7–.10	36.85N	141.09E	49–1	4.0,4.1s		

ISC Event type se.
IDC Error ellipse: s-maj=24.0km s-min=17.2km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.5km az=11.4.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.6km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 19 59 49.2–.47**	**38.87N–.04**	**142.03E–.04**	**48–3**	**4.9b,4.0s**	**609**	**1-145**
NIED	IV	01 19 59 00	38.90N	142.00E	47	4.7W,4.0s		¶602567181
MOS	IV	01 19 59 47.0–.85	38.94N	141.87E	35	5.3b,4.0s		
ISCJB	IV	01 19 59 49.4–.33	38.91N–.02	141.89E–.03	56–2	4.9b,4.0s		
BJI	IV	01 19 59 49.9	38.81N	141.89E	73	5.0b,5.0b		
JMA	IV	01 19 59 49.6–.10	38.88N	142.00E	49–1	4.9,5.0b		
NEIC	IV	01 19 59 51.2–.39	38.87N	141.85E	61–3	4.8b,5.0b		
IDC	IV	01 19 59 51.3–1.9	38.89N	141.89E	61–17	4.8,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S158.00000°,δ24.00000°,λ52.00000°. NP2:ϕ_S19.00000°,δ72.00000°,λ105.00000°. M_o1.36000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=102.2.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.7km az=141.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=146.0. Recorded [4 JMA] in Iwate.
IDC Error ellipse: s-maj=12.0km s-min=10.1km az=111.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**01 21 58 59.6–.83**	**38.61N–.06**	**142.02E–.09**	**41**	**4.0b,2.8s**	**42**	**1-82**
IDC	IV	01 21 58 55.0–2.0	38.96N	142.04E	0	4.1,3.9		¶16485873
ISCJB	IV	01 21 58 57.7–.60	38.61N–.05	142.16E–.07	41	4.0b,2.9s		
JMA	IV	01 21 59 00.9–.10	38.64N	141.90E	50–1	3.9,2.9s		
NEIC	IV	01 21 59 00.1–2.9	38.92N	141.90E	31–21	4.1b,2.9s		
NIED	IV	01 21 59 00	38.60N	141.90E	50	4.2W,2.9s		

ISC Event type se.
IDC Error ellipse: s-maj=51.4km s-min=24.1km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=136.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=9.3km az=131.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S177.00000°,δ36.00000°,λ47.00000°. NP2:ϕ_S46.00000°,δ65.00000°,λ116.00000°. M_o2.01000×10^{15}

(162) South Island

WEL	**IV**	**01 22 21 03.9–.06**	**43.59S**	**172.65E**	**5**	**3.8L**	
NEIC	IV	01 22 21 04.1	43.59S	172.65E	3	4.0L	¶16403640

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.

(135) Near coast of central Chile

ISC	**IV**	**02 00 03 45.5–.35**	**34.06S–.03**	**72.04W–.05**	**21–2**	**4.7b,4.3s**	**130**	**0-176**
IDC	IV	02 00 03 42.5–.57	34.03S	71.90W	0	4.4,4.3		¶16403918
ISCJB	IV	02 00 03 43.5–.81	34.11S–.02	72.31W–.04	17–5	4.7b,4.3s		
NEIC	IV	02 00 03 44.0	34.08S	72.21W	15	4.8b,4.4L		
GUC	IV	02 00 03 44.3–.37	34.09S	72.21W	15–2	4.4L,4.4L		
BJI	IV	02 00 03 49.7	34.10S	71.80W	44	5.3b,4.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=13.0km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=9.2.
NEIC Event type fe. Felt [III] at Litueche, Longavi, Navidad, Pichilemu, Santo Domingo and Talca; [II] at Parral, Rancagua, Rio Claro, San Antonio and Tiltil. After GUC.
GUC Error ellipse: s-maj=1.0km s-min=3.4km az=-1.0.

(135) Near coast of central Chile

ISC	**IV**	**02 00 28 53.7–1.0**	**34.07S–.03**	**72.23W–.05**	**20–4**	**4.7b,4.3s**	**212**	**0-176**
ISCJB	IV	02 00 28 52.7–.82	34.09S–.03	72.30W–.04	21–6	4.7b,4.2s		¶16403919
NEIC	IV	02 00 28 52.0	34.08S	72.25W	17	4.9L,4.8b		
GUC	IV	02 00 28 52.9–.28	34.08S	72.25W	17–1	4.9L,4.8b		
BJI	IV	02 00 28 53.6	34.81S	71.29W	27	5.6s,5.4		
IDC	IV	02 00 28 55.7–4.5	34.06S	72.10W	30–32	4.4,4.3L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=11.0.
NEIC Event type fe. Felt [III] at Navidad and San Antonio; [II] at Rancagua, Santiago and Talca. Also felt at Quilpue. After GUC.
GUC Error ellipse: s-maj=0.8km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=13.6km az=82.0.

(135) Near coast of central Chile

ISC	**IV**	**02 01 54 33.6–1.6**	**34.06S–.03**	**72.20W–.06**	**7–9**	**4.5b,3.9s**	**97**	**1-175**
ISCJB	IV	02 01 54 32.7–.36	34.13S–.03	72.39W–.04	10	4.4b,3.8s		¶16403920
IDC	IV	02 01 54 32.9–.61	34.13S	72.01W	0	4.4,4.2		
NEIC	IV	02 01 54 35.0	34.11S	72.20W	14	4.6b,4.4L		
GUC	IV	02 01 54 35.2–.35	34.11S	72.20W	14–4	4.4L,4.4L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.6km az=25.4.
IDC Error ellipse: s-maj=26.5km s-min=14.6km az=86.0.
NEIC Event type fe. Felt [IV] at Pichilemu; [III] at Paredones, San Antonio and Santo Domingo; [II] at Chepica, Lolol, Rancagua, Santa Cruz and Talca. After GUC.
GUC Error ellipse: s-maj=1.0km s-min=3.7km az=-1.0.

(43) Southern California

ISC	**IV**	**02 02 32 51.9–.95**	**33.21N–.02**	**115.63W–.03**	**9–10**		**34**	**0-4**
NEIC	IV	02 02 32 51.9	33.20N	115.61W	4	2.5L		¶17236551

ISC Event type fe.
NEIC Event type fe. Felt at Calipatria. After PAS.

(227) Eastern Honshu

ISC	**IV**	**02 03 48 43.1–1.0**	**40.27N–.04**	**140.41E–.04**	**11–7**	**3.5b**	**23**	**0-64**
NIED	IV	02 03 48 00	40.30N	140.40E	11	3.6W		¶602567185
IDC	IV	02 03 48 41.8–.97	40.28N	140.24E	0	3.6,3.4		
ISCJB	IV	02 03 48 42.8–.69	40.27N–.04	140.39E–.05	21–8	3.4b,3.4		
JMA	IV	02 03 48 42.8	40.26N	140.37E	12–1	3.9,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S31.00000°,δ77.00000°,λ-177.00000°. NP2:ϕ_S300.00000°,δ87.00000°,λ-13.00000°. M_o3.24000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=18.8km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.4km az=141.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S320.00000°,δ74.00000°,λ18.00000°. NP2:ϕ_S224.00000°,δ73.00000°,λ163.00000°. Principal axes: T Plg24.0000°,Azm182.0000°; N Plg66.0000°,Azm360.0000°; P Plg1.0000°,Azm92.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 04 08 07.4–.23**	**38.80N–.03**	**142.04E–.03**	**39–2**	**5.2b,4.7s**	**1258**	**1-161**
NIED	IV	02 04 08 00	38.80N	142.10E	44	5.2W,4.7s		¶16403565
MOS	IV	02 04 08 06.4–.80	38.93N	141.97E	35	5.3b,4.8s		
NEIC	IV	02 04 08 06.8–1.1	38.74N	141.92E	32–7	5.2b,4.8s		
GCMT	IV	02 04 08 06.8–.20	38.87N	142.10E	42–0	5.2W,4.8s		
BJI	IV	02 04 08 07.2	38.70N	141.98E	59	5.1b,5.0b		
JMA	IV	02 04 08 07.3–.10	38.77N	142.10E	42–2	5.2,5.0b		
ISCJB	IV	02 04 08 07.2–.35	38.79N–.02	141.98E–.02	47–3	5.1b,4.7s		
IDC	IV	02 04 08 09.2–1.9	38.80N	142.00E	53–16	5.0,5.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S13.00000°,δ42.00000°,λ-103.00000°. NP2:ϕ_S210.00000°,δ49.00000°,λ-79.00000°. M_o6.76000×10^{16}
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=97.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=134.0. Recorded [4 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c130; s92,c147; Duration: 0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.73±.02 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$0.67±.01; $M_{r\theta}$-0.01±.01; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$-0.01±.01; Best double couple: NP1:ϕ_S14.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_S194.00000°,δ44.00000°,λ-90.00000°. Principal axes: T 0.7180,Plg1.0000°,Azm104.0000°; N 0.0110,Plg0.0000°,Azm194.0000°; P -0.7280,Plg89.0000°,Azm308.0000° M_o0.72300×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=153.7.
IDC Error ellipse: s-maj=12.6km s-min=9.9km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 05 08 02.2–.38**	**36.38N–.04**	**141.16E–.04**	**38–2**	**4.7b,3.8s**	**605**	**1-152**
NIED	IV	02 05 08 00	36.40N	141.10E	35	4.6W,3.8s		¶16403570
MOS	IV	02 05 08 01.0–.98	36.41N	141.01E	39	4.9b,3.8s		
JMA	IV	02 05 08 01.1–.10	36.42N	141.10E	45–2	4.6,3.8s		
ISCJB	IV	02 05 08 01.8–.45	36.40N–.03	141.04E–.03	45–3	4.7b,3.8s		
IDC	IV	02 05 08 02.9–1.6	36.37N	141.08E	46–16	4.4L,4.3		
NEIC	IV	02 05 08 03.2–.47	36.40N	141.04E	43–4	4.7b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S137.00000°,δ5.00000°,λ5.00000°. NP2: ϕ_S42.00000°,δ90.00000°,λ95.00000°. M_o8.33000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=89.8.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=146.8.
IDC Error ellipse: s-maj=13.2km s-min=9.9km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=140.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC IV 02 05 32 55.8–.98 39.14N–.05 142.22E–.06 47–7 4.6b,4.2s 143 0-145
NIED IV 02 05 32 00 39.10N 142.40E 41 4.7W,4.2s **¶602567190**
JMA IV 02 05 32 53.0–.10 39.09N 142.39E 36–1 4.7,4.2s
ISCJB IV 02 05 32 54.6–.52 39.12N–.03 142.26E–.05 51–3 4.5b,4.1s
IDC IV 02 05 32 56.3–2.6 39.06N 142.29E 56–22 4.3,4.1
BJI IV 02 05 32 56.8 39.09N 141.84E 54 4.9b,4.8b
NEIC IV 02 05 32 57.2–.53 39.12N 142.25E 61–5 4.7b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ19.00000°,λ-152.00000°. NP2:ϕ_s188.00000°,δ81.00000°,λ-73.000000°. $M_0$1.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=34.6.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=130.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=139.0. Recorded [3 JMA] in Iwate.
(227) Eastern Honshu
ISC IV 02 05 34 27.8–.96 36.18N–.04 140.00E–.06 84–7 3.9b 24 0-60
NIED IV 02 05 34 00 36.30N 140.00E 47 4.4W **¶17199500**
IDC IV 02 05 34 13.1–2.5 36.61N 141.19E 0 4.0,3.9
ISCJB IV 02 05 34 26.8–.62 36.17N–.04 140.03E–.07 92–4 3.8b,3.9
JMA IV 02 05 34 28.2–.10 36.21N 139.98E 79–1 3.5,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ40.00000°,λ-160.00000°. NP2:ϕ_s155.00000°,δ77.00000°,λ-52.00000°. $M_0$4.61000×10^{15}
IDC Error ellipse: s-maj=69.5km s-min=24.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.2km az=1.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 02 06 23 59.7–.95 35.74N–.05 140.24E–.08 61–8 3.9b 31 0-79
IDC IV 02 06 23 49.6–1.5 36.06N 141.01E 0 4.0,4.0s **¶16499031**
NEIC IV 02 06 23 55.3–.76 35.95N 140.81E 35 4.3b,4.0s
ISCJB IV 02 06 23 58.7–.62 35.76N–.04 140.29E–.08 70–4 3.8b,4.0s
JMA IV 02 06 23 59.6–.10 35.80N 140.22E 63–1 3.2,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=45.9km s-min=16.8km az=67.0.
NEIC Event type se. Error ellipse: s-maj=20.4km s-min=7.8km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.6km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s351.00000°,δ78.00000°,λ100.00000°. NP2: ϕ_s132.00000°,δ15.00000°,λ52.00000°. Principal axes: T Plg56.0000°,Azm273.0000° ; N Plg9.0000°,Azm169.0000°; P Plg32.0000°,Azm73.0000°
(248) Philippine Islands region
ISC IV 02 06 43 30.5–1.1 7.53N–.04 127.54E–.05 33–4 4.7b,3.5s 175 1-156
MAN IV 02 06 43 27 7.47N 127.67E 33 5.0b,4.2s **¶16403576**
IDC IV 02 06 43 28.0–4.1 7.53N 127.56E 19–25 4.7L,4.4
ISCJB IV 02 06 43 29.4–.73 7.51N–.03 127.51E–.04 39–6 4.6b,3.5s
BJI IV 02 06 43 31.1 7.46N 127.44E 55 5.0b,4.8b
NEIC IV 02 06 43 33.9–.92 7.50N 127.44E 64–8 4.7b,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=18.2km s-min=10.6km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.1km az=159.6.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=4.4km az=74.0. Felt at Valencia, Mindanao.
(228) Near east coast of eastern Honshu
ISC IV 02 07 30 36.9–2.1 39.06N–.05 142.33E–.09 23–14 3.5b 22 1-73
IDC IV 02 07 30 33.5–1.4 39.03N 142.28E 0 3.7,3.5 **¶17199507**
ISCJB IV 02 07 30 35.7–1.5 39.06N–.04 142.45E–.09 26–8 3.5b,3.5
JMA IV 02 07 30 37.7–.10 39.11N 142.36E 35–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=38.8km s-min=27.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=7.3km az=0.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC IV 02 07 55 52.8–.51 36.19N–.03 139.90E–.03 53–4 4.8b,3.8s 759 0-156
NIED IV 02 07 55 00 36.20N 140.00E 56 4.8W,3.8s **¶16455816**
BJI IV 02 07 55 47.8 36.00N 140.18E 48 5.0b,4.9b
MOS IV 02 07 55 50.3–.85 36.26N 139.77E 39 5.1b,4.9b
IDC IV 02 07 55 52.5–1.1 36.19N 139.86E 48–10 4.8,4.7L
JMA IV 02 07 55 53.6–.10 36.21N 139.96E 54–1 5.0,4.7L
ISCJB IV 02 07 55 53.3–.28 36.18N–.02 139.79E–.02 67–2 4.8b,4.7L
NEIC IV 02 07 55 55.1–.40 36.21N 139.77E 69–3 4.8b,4.7L
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ20.00000°,λ105.00000°. NP2:ϕ_s53.00000°,δ71.00000°,λ85.00000°. $M_0$1.73000×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.5km az=101.8.
IDC Error ellipse: s-maj=10.5km s-min=6.9km az=59.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s53.00000°,δ56.00000°,λ90.00000°. NP2: ϕ_s233.00000°,δ34.00000°,λ90.00000°. Principal axes: T Plg79.0000°,Azm323.0000° ; N Plg0.0000°,Azm53.0000°; P Plg11.0000°,Azm143.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.9km az=150.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=140.0. Felt [IV] at Narita, [III] at Yokohama and [II] at Tokyo and Yokosuka. Also felt at Abiko, Atsugi, Fujisawa, Kawagoe, Kawaguchi, Mito, Numata, Otawara, Sagamihara, Tsukuba and Yamatoma. Recorded [5L JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
ISC IV 02 09 05 09.5–.99 36.94N–.03 140.51E–.04 9–6 4.5b,3.1s 126 0-147
NIED IV 02 09 05 00 36.90N 140.60E 5 4.2W,3.1s **¶16403923**
IDC IV 02 09 05 07.5–.52 36.90N 140.51E 0 4.3,4.2
ISCJB IV 02 09 05 08.6–.55 36.93N–.02 140.54E–.04 12–3 4.3b,3.1s
JMA IV 02 09 05 09.0 36.90N 140.60E 7–1 4.4,3.1s
MOS IV 02 09 05 11.3–1.3 37.01N 140.53E 32 4.7b,3.1s
NEIC IV 02 09 05 13.6–.23 36.96N 140.44E 35 4.5b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ27.00000°,λ-94.00000°. NP2:ϕ_s150.00000°,δ63.00000°,λ-88.00000°. $M_0$2.10000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=12.4km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=33.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s146.00000°,δ52.00000°,λ-77.00000°. NP2:ϕ_s306.00000°,δ40.00000°,λ-106.00000°. Principal axes: T Plg6.0000°,Azm227.0000°; N Plg10.0000°,Azm318.0000°; P Plg78.0000° ,Azm106.0000°
MOS Error ellipse: s-maj=9.2km s-min=6.2km az=90.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=145.0.
(161) Off west coast of South Island
WEL IV 02 09 41 58.2–.16 40.03S 172.92E 33 3.7L
¶16404909
WEL Event type fe. Error ellipse: s-maj=2.8km s-min=1.1km az=90.0. Felt in the King Country region, maximum reported intensity MM 3.
(228) Near east coast of eastern Honshu
ISC IV 02 10 22 54.5–1.1 36.80N–.03 140.50E–.04 7–7 4.5b,3.0s 95 0-147
NIED IV 02 10 22 00 36.80N 140.60E 5 4.1W,3.0s **¶602567187**
ISCJB IV 02 10 22 54.3–.53 36.81N–.03 140.55E–.03 12–3 4.3b,3.2s
JMA IV 02 10 22 54.5 36.82N 140.57E 6–1 4.4,3.2s
IDC IV 02 10 22 57.3–3.8 36.79N 140.43E 26–25 4.2,4.2
NEIC IV 02 10 22 59.1–.23 36.83N 140.45E 35 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ23.00000°,λ-104.00000°. NP2:ϕ_s179.00000°,δ67.00000°,λ-84.00000°. $M_0$1.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=142.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ84.00000°,λ-80.00000°. NP2:ϕ_s323.00000°,δ11.00000°,λ-147.00000°. Principal axes: T Plg38.0000°,Azm282.0000°; N Plg9.0000°,Azm20.0000°; P Plg50.0000° ,Azm121.0000°
IDC Error ellipse: s-maj=15.1km s-min=12.7km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=167.0. Recorded [3 JMA] in Fukushima.
(259) Mindanao
MAN IV 02 10 30 29 7.91N 124.98E 1 4.5b,3.3L
¶601668959
MAN Event type fe. INTENSITY III - MALAYBALAY BUKIDNON; INTENSITY II - VALENCIA BUKIDNON.
(123) Northern Chile
ISC IV 02 10 59 39.1–.23 19.67S–.03 69.22W–.03 102–1 5.8b 1602 0-179
ISCJB IV 02 10 59 36.4–.29 19.50S–.02 69.13W–.03 89–2 5.8b **¶602546014**
NEIC IV 02 10 59 37.0–.00 19.56S 69.07W 83 5.8b
GCMT IV 02 10 59 37.4–.10 19.75S 69.51W 118–0 5.9W
GUC IV 02 10 59 38.7–.47 19.68S 69.36W 100–3 5.6L
BJI IV 02 10 59 39.7 19.60S 69.20W 90 5.8b,5.6s
MOS IV 02 10 59 39.5–1.3 19.40S 69.21W 105 6.0b,5.6s
IDC IV 02 10 59 40.1–.33 19.58S 69.13W 105–2 5.5,5.3
NEIC IV 02 10 59 40.4–.12 19.54S 69.01W 110 5.9W,5.9W
SCB IV 02 10 59 42.2–.58 19.41S 68.76W 100 4.8L,5.9W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=144.5.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.85 $M_{\theta\theta}$-0.91 $M_{\phi\phi}$4.76 $M_{r\theta}$1.40 $M_{\theta\phi}$0.39 $M_{\phi r}$-6.33 Best double couple: NP1:ϕ_s350.00000° ,δ74.00000°,λ-100.00000°. NP2:ϕ_s202.00000°,δ19.00000°,λ-58.00000°. Principal axes: T 8.1200,Plg28.0000°,Azm87.0000°; N -0.6100,Plg9.0000°,Azm352.0000° ; P -7.5100,Plg59.0000°,Azm245.0000° $M_0$7.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s131,c281; s134,c345;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.32±.06 $M_{\theta\theta}$-0.59±.07; $M_{\phi\phi}$3.91±.08; $M_{r\theta}$1.59±.04; $M_{\theta\phi}$2.04±.07; $M_{\phi r}$-6.27±.06; Best double couple: NP1: ϕ_s352.00000°,δ76.00000°,λ-110.00000°. NP2:ϕ_s230.00000°,δ24.00000°,λ-35.00000°. Principal axes: T 7.6530,Plg29.0000°,Azm98.0000°; N 0.0950,Plg20.0000°,Azm357.0000° ; P -7.7520,Plg54.0000°,Azm237.0000° $M_0$7.70200×10^{17}
GUC Error ellipse: s-maj=1.3km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=10.9km s-min=5.2km az=110.5.
IDC Error ellipse: s-maj=9.4km s-min=7.5km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=58.0. Felt [VI] at Mamina, Pica and Pozo Almonte; [V] at Alto Hospicio, Codpa, Cuya, Huara and Iquique; [IV] at La Tirana, Pisagua and Poconchile; [III] at Arica and Putre. Also felt at Calama. Felt [III] at Moquegua and Tacna and [II] at Arequipa, Peru. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.80 $M_{\theta\theta}$-1.45 $M_{\phi\phi}$4.25 $M_{r\theta}$0.02 $M_{\theta\phi}$2.44 $M_{\phi r}$-8.23 Best double couple: NP1:ϕ_s359.00000°,δ79.00000°,λ-10.00000°. NP2:ϕ_s234.00000° ,δ19.00000°,λ-37.00000°. Principal axes: T 10.0000,Plg32.0000°,Azm102.0000° ; N -1.5000,Plg15.0000°,Azm2.0000°; P -8.5000,Plg54.0000°,Azm251.0000° $M_0$9.40000×10^{17} Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.86 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$1.97 $M_{r\theta}$-1.43 $M_{\theta\phi}$1.87 $M_{\phi r}$-7.43 Best double couple: NP1:ϕ_s11.00000° ,δ82.00000°,λ-100.00000°. NP2:ϕ_s241.00000°,δ13.00000°,λ-41.00000°. Principal axes: T 8.3800,Plg36.0000°,Azm109.0000°; N -0.7600,Plg10.0000°,Azm12.0000° ; P -7.6200,Plg52.0000°,Azm270.0000° $M_0$8.00000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ10.00000°,λ-90.00000°. NP2: ϕ_s10.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm100.0000° ; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm280.0000°
SCB Event type ke. Error ellipse: s-maj=19.3km s-min=4.6km az=63.0.
(228) Near east coast of eastern Honshu
ISC IV 02 12 25 19.5–.68 36.23N–.04 141.68E–.05 34–2 4.3b,3.9s 148 1-147
NIED IV 02 12 25 00 36.50N 141.80E 23 4.5W,3.9s **¶600576001**
IDC IV 02 12 25 14.3–.50 36.17N 141.62E 0 4.3,4.2
BJI IV 02 12 25 14.5 36.01N 141.75E 10 5.0b,4.7b
MOS IV 02 12 25 18.5–1.0 36.38N 141.63E 31 4.8b,4.7b
JMA IV 02 12 25 19.9–.30 36.55N 141.82E 38 4.5,4.7b
NEIC IV 02 12 25 19.4–.44 36.23N 141.67E 35 4.6b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ47.00000°,λ-52.00000°. NP2:ϕ_s333.00000°,δ55.00000°,λ-123.00000°. $M_0$5.46000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.2km az=83.0.
MOS Error ellipse: s-maj=12.3km s-min=6.4km az=114.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=115.0.
(228) Near east coast of eastern Honshu
JMA IV 02 13 42 34.2 35.89N 140.85E 18–1 3.7
NIED IV 02 13 42 00 35.90N 140.80E 17 3.4W **¶600576066**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ35.00000°,λ-55.00000°. NP2:ϕ_s302.00000°,δ62.00000°,λ-112.00000°. $M_0$1.39000×10^{14}
(227) Eastern Honshu
ISC IV 02 14 38 09.5–.51 37.10N–.03 140.82E–.03 17–2 4.8b,3.9s 398 0-147
NIED IV 02 14 38 00 37.10N 140.90E 5 4.6W,3.9s **¶16455820**
IDC IV 02 14 38 06.7–.40 37.07N 140.84E 0 4.6,4.6
BJI IV 02 14 38 06.5 36.90N 140.84E 14 4.9b,4.6b
ISCJB IV 02 14 38 08.3–.49 37.09N–.02 140.80E–.03 16–3 4.7b,3.9s
JMA IV 02 14 38 08.0 37.10N 140.83E 6–1 4.8,3.9s
NEIC IV 02 14 38 09.4–2.3 37.09N 140.70E 14–14 4.8b,3.9s
MOS IV 02 14 38 10.7–1.1 37.10N 140.79E 33 4.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ28.00000°,λ-90.00000°. NP2:ϕ_s246.00000°,δ62.00000°,λ-90.00000°. $M_0$7.79000×10^{15}
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=35.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ61.00000°,λ-102.00000°. NP2:ϕ_s80.00000°,δ31.00000°,λ-69.00000°. Principal axes: T Plg15.0000°,Azm334.0000°; N Plg11.0000°,Azm241.0000°; P Plg71.0000° ,Azm117.0000°
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=131.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=105.0.
(122) Near coast of northern Chile
ISC IV 02 14 43 12.3–1.5 22.54S–.04 70.63W–.08 27–10 4.4b 27 0-147
IDC IV 02 14 43 07.0–2.0 22.94S 70.72W 0 4.1,4.1b **¶16577632**
ISCJB IV 02 14 43 11.8–1.1 22.66S–.04 70.62W–.07 32–7 4.4b,3.0s
NEIC IV 02 14 43 13.0 22.51S 70.51W 37 4.4b,3.0s
GUC IV 02 14 43 13.9–.65 22.51S 70.51W 37–2 4.1L,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=55.1km s-min=47.9km az=170.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.4km az=21.1.
NEIC Event type fe. Felt [II] at Tocopilla. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=3.6km az=-1.0.
(229) Off east coast of Honshu
ISC IV 02 15 02 49.4–.58 39.13N–.04 143.14E–.04 29–3 4.7b,4.1s 364 1-154
NIED IV 02 15 02 00 39.10N 143.20E 14 4.5W,4.1s **¶16403928**
JMA IV 02 15 02 46.5–.20 39.08N 143.25E 14–3 4.8,4.1s
ISCJB IV 02 15 02 47.4–.87 39.06N–.03 143.21E–.03 28–6 4.7b,4.1s
BJI IV 02 15 02 48.6 39.08N 143.01E 35 4.9b,4.9b
MOS IV 02 15 02 49.0–.98 39.16N 143.09E 34 4.9b,4.2s
NEIC IV 02 15 02 50.1–.80 39.14N 143.07E 35–5 4.7b,4.2s
IDC IV 02 15 02 50.8–2.1 39.06N 143.15E 41–18 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ46.00000°,λ-151.00000°. NP2:ϕ_s298.00000°,δ69.00000°,λ-48.00000°. $M_0$7.32000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=147.6.
MOS Error ellipse: s-maj=8.1km s-min=4.9km az=105.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.9km az=145.0.
IDC Error ellipse: s-maj=12.4km s-min=10.3km az=106.0.
(228) Near east coast of eastern Honshu
ISC IV 02 15 10 04.3–.65 36.99N–.05 141.46E–.05 16–3 3.6b 31 1-147
NIED IV 02 15 10 00 37.00N 141.40E 5 3.7W **¶17199540**
ISCJB IV 02 15 10 02.2–2.0 36.99N–.04 141.56E–.05 13–13 3.6b
JMA IV 02 15 10 05.1–.10 37.05N 141.36E 32–1 3.6
IDC IV 02 15 10 05.3–.76 37.01N 141.50E 20–4 3.8,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ25.00000°,λ-150.00000°. NP2:ϕ_s232.00000°,δ78.00000°,λ-68.00000°. $M_0$4.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.7km az=169.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=13.5km az=99.0.
(135) Near coast of central Chile
ISC IV 02 16 26 52.3–.91 34.74S–.04 71.91W–.06 42–7 4.6b,3.7s 95 0-175
GUC IV 02 16 26 51.9–.72 34.74S 71.82W 44–3 4.9L,3.7s **¶16404911**
NEIC IV 02 16 26 51.0 34.74S 71.82W 44 4.7b,3.7s

ISCJB IV 02 16 26 52.4–.49 34.76S–.03 71.91W–.07 52–4 4.5b,3.6s
IDC IV 02 16 26 54.2–3.0 34.65S 71.66W 52–26 4.5,4.5L
ISC Event type fe.
GUC Error ellipse: s-maj=2.0km s-min=4.2km az=-1.0.
NEIC Event type fe. Felt [IV] at Chepica, Chimbarongo, Curico, Iloca, Lolol, Romeral, San Fernando, Santa Cruz and Talca; [III] at Graneros, Hualane, Paredones and Rancagua; [II] at Constitucion, Pencahue, San Javier and Santiago. Also felt at Machali, Rengo, San Antonio and San Vicente. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.9km az=3.8.
IDC Error ellipse: s-maj=21.8km s-min=14.1km az=76.0.

(227) Eastern Honshu

ISC	**IV**	**02 16 43 24.9–1.0**	**37.02N–.03**	**140.81E–.05**	**7–6**	**3.9b,3.0s**	**55**	**0-147**
NIED	IV	02 16 43 00	37.00N	140.80E	5	4.0W,3.0s		**¶16406020**
ISCJB	IV	02 16 43 23.9–.74	37.00N–.03	140.90E–.04	10–4	3.9b,3.0s		
IDC	IV	02 16 43 23.8–.56	36.95N	140.85E	0	4.1,4.0		
JMA	IV	02 16 43 25.3	37.04N	140.78E	6–1	4.3,4.0		
NEIC	IV	02 16 43 29.0–1.1	36.82N	140.85E	39–10	4.6b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s249.00000°,δ65.00000°,λ-90.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.2km az=15.2.
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=112.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s248.00000°,δ74.00000°,λ-94.00000°. NP2:ϕ_s84.00000°,δ17.00000°,λ-75.00000°. Principal axes: T Plg29.0000°,Azm342.0000°; N Plg4.0000°,Azm250.0000°; P Plg61.0000°,Azm152.0000°
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=9.0km az=76.0. Recorded [3 JMA] in Fukushima.

(99) Northern Colombia

ISC	**IV**	**02 17 30 07.1–.45**	**6.81N–.03**	**73.05W–.04**	**155–4**	**4.9b**	**874**	**0-179**
ISCJB	IV	02 17 30 06.2–.17	6.80N–.02	73.01W–.02	161–1	4.9b		**¶16633234**
NEIC	IV	02 17 30 06.7–.30	6.78N	72.96W	151–2	4.9b		
IDC	IV	02 17 30 06.9–.49	6.75N	72.94W	153–4	4.7,4.5		
RSNC	IV	02 17 30 08.6–1.0	6.81N	73.15W	149–5	4.9L,4.5		
FUNV	IV	02 17 30 08.4	6.87N	73.09W	171	4.4W,4.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=137.7.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=46.0. Felt [II] at Bogota. Also felt at Barichara and Medellin. Felt at San Cristobal, Venezuela.
IDC Error ellipse: s-maj=9.2km s-min=7.1km az=119.0.
RSNC Error ellipse: s-maj=3.1km s-min=4.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 18 23 31.9–1.2**	**38.58N–.04**	**142.02E–.09**	**41**	**3.6b,3.5s**	**21**	**1-73**
NIED	IV	02 18 23 00	38.60N	141.90E	44	3.7W,3.5s		**¶17199558**
IDC	IV	02 18 23 24.3–2.9	38.80N	142.52E	0	3.8,3.8		
ISCJB	IV	02 18 23 31.1–.96	38.57N–.05	142.1E–.10	41	3.6b,3.4s		
JMA	IV	02 18 23 33.1–.10	38.62N	141.90E	49–1	3.5,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ60.00000°,λ-160.00000°. NP2:ϕ_s122.00000°,δ72.00000°,λ-31.00000°. $M_0$3.61000×10^{14}
IDC Error ellipse: s-maj=67.5km s-min=29.5km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.5km az=10.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**02 18 55 00.4–1.4**	**37.04N–.06**	**140.86E–.07**	**6–9**		**16**	**0-57**
ISCJB	IV	02 18 55 00.5–1.1	37.09N–.04	140.90E–.07	6–5	3.2b		**¶17199564**
JMA	IV	02 18 55 01.6	37.09N	140.81E	5–1	3.2		
IDC	IV	02 18 55 04.6–2.3	36.47N	140.69E	0	3.6,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.9km az=9.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s52.00000°,δ49.00000°,λ-79.00000°. NP2:ϕ_s215.00000°,δ43.00000°,λ-103.00000°. Principal axes: T Plg3.0000°,Azm134.0000°; N Plg9.0000°,Azm224.0000°; P Plg81.0000°,Azm26.0000°
IDC Error ellipse: s-maj=33.9km s-min=19.9km az=17.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 19 02 20.7–2.8**	**37.03N–.05**	**141.64E–.07**	**1–17**	**3.4b**	**19**	**1-57**
NIED	IV	02 19 02 00	37.00N	141.50E	8	3.3W		**¶17199565**
IDC	IV	02 19 02 20.4–1.6	36.68N	141.71E	0	3.5,3.4b		
JMA	IV	02 19 02 24.2–.20	37.00N	141.51E	41–2	3.5,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ39.00000°,λ-128.00000°. NP2:ϕ_s40.00000°,δ60.00000°,λ-63.00000°. $M_0$1.12000×10^{14}
IDC Error ellipse: s-maj=35.9km s-min=28.7km az=172.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(159) North Island

ISC	**IV**	**02 20 28 43.5–.65**	**39.87S–.02**	**176.91E–.03**	**31–3**	**4.0b,3.7s**	**232**	**0-153**
IDC	IV	02 20 28 43.7–1.4	39.86S	176.80E	30–6	4.1,4.1		**¶16404917**
WEL	IV	02 20 28 44.5–.09	39.87S	176.92E	41–2	4.4L,4.1		
NEIC	IV	02 20 28 44.5	39.87S	176.92E	39	4.5b,4.4L		

ISC Event type fe.
IDC Error ellipse: s-maj=30.6km s-min=20.4km az=118.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Hawke"s Bay region, maximum reported intensity MM 5.
NEIC Event type fe. Felt along the east coast of the North Island. After WEL.

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 20 52 25.1–3.2**	**37.36N–.06**	**141.6E–.10**	**5–20**		**14**	**1-57**
IDC	IV	02 20 52 24.5–1.9	37.46N	141.25E	0	3.4,3.2b		**¶17199573**
JMA	IV	02 20 52 28.9–.10	37.38N	141.38E	29–2	3.3,3.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=36.9km s-min=22.9km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 21 52 33.3–2.0**	**39.47N–.05**	**142.83E–.07**	**9–11**	**4.2b,3.3s**	**66**	**1-81**
NIED	IV	02 21 52 00	39.50N	142.90E	11	4.1W,3.3s		**¶16487702**
ISCJB	IV	02 21 52 33.3–1.2	39.47N–.04	142.88E–.06	23–7	4.2b,3.2s		
JMA	IV	02 21 52 33.2–.20	39.51N	142.88E	21–2	4.4,3.2s		
IDC	IV	02 21 52 37.4–2.3	39.42N	142.85E	41–21	4.2,4.1		
NEIC	IV	02 21 52 37.4–.71	39.50N	142.86E	40–5	4.3b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ32.00000°,λ-37.00000°. NP2:ϕ_s67.00000°,δ71.00000°,λ-117.00000°. $M_0$1.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.1km az=30.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=13.5km az=111.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=4.8km az=124.0.

(259) Mindanao

ISC	**IV**	**02 23 11 06.0–2.8**	**8.3N–.60**	**125E–1.0**	**12**	**3.6b**	**6**	**1-53**
MAN	IV	02 23 10 20	7.84N	125.04E	1	4.4b,3.3L		**¶17199582**
IDC	IV	02 23 11 07.8–1.6	8.18N	126.03E	0	3.8,3.6		

ISC Event type fe.
MAN Event type fe. INTENSITY I - VALENCIA BUKIDNON.
IDC Error ellipse: s-maj=39.1km s-min=16.6km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**02 23 21 13.6–1.1**	**36.68N–.04**	**140.65E–.05**	**10–7**		**19**	**0-60**
ISCJB	IV	02 23 21 12.9–.95	36.67N–.04	140.72E–.07	11–4	3.5b		**¶17199587**
JMA	IV	02 23 21 14.1	36.71N	140.62E	6–1	3.1		
IDC	IV	02 23 21 15.4–4.1	36.09N	142.72E	0	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.5km az=24.3.
JMA Event type fe.
IDC Error ellipse: s-maj=77.3km s-min=41.5km az=33.0.

(259) Mindanao

MAN	**IV**	**02 23 23 19**	**7.86N**	**125.02E**	**1**	**4.4b,3.2L**		**¶601668968**

MAN Event type fe. INTENSITY II - MALAYBALAY & VALENCIA BUKIDNON.

(227) Eastern Honshu

ISC	**IV**	**02 23 24 17.6–1.3**	**37.03N–.04**	**140.84E–.08**	**7–7**	**3.4b**	**16**	**0-61**
NIED	IV	02 23 24 00	37.00N	140.80E	5	3.4W		**¶17199588**
ISCJB	IV	02 23 24 16.2–1.2	37.04N–.04	140.91E–.09	11–4	3.5b		
IDC	IV	02 23 24 17.0–1.8	36.92N	140.81E	0	3.6,3.4		
JMA	IV	02 23 24 17.9	37.03N	140.78E	7–1	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ29.00000°,λ-134.00000°. NP2:ϕ_s263.00000°,δ70.00000°,λ-69.00000°. $M_0$1.54000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.4km az=169.0.
IDC Error ellipse: s-maj=31.7km s-min=19.4km az=11.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 00 22 52.2–.88**	**36.98N–.04**	**140.73E–.06**	**27–6**	**3.5b**	**26**	**0-91**
IDC	IV	03 00 22 48.0–1.0	36.98N	140.87E	0	3.7,3.6		**¶17199590**
ISCJB	IV	03 00 22 51.1–.70	36.95N–.03	140.89E–.06	31–3	3.5b,3.6		
JMA	IV	03 00 22 52.3	36.94N	140.75E	27–1	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=21.8km s-min=19.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.6km az=9.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ87.00000°,λ-107.00000°. NP2:ϕ_s103.00000°,δ17.00000°,λ-9.00000°. Principal axes: T Plg40.0000°,Azm307.0000°; N Plg17.0000°,Azm202.0000°; P Plg45.0000°,Azm95.0000°

(2) Southern Alaska

ISC	**IV**	**03 00 30 07.5–.50**	**61.83N–.03**	**150.82W–.03**	**69–4**	**3.8b**	**102**	**1-79**
ISCJB	IV	03 00 30 06.2–.22	61.84N–.02	150.79W–.05	72–3	3.8b		**¶16404921**
NEIC	IV	03 00 30 07.9	61.80N	150.76W	56	4.3b,3.7L		
IDC	IV	03 00 30 07.9–.59	61.95N	150.86W	71–4	3.8,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=36.5.
NEIC Event type fe. Felt at Anchorage, Talkeetna and Willow. After AEIC.
IDC Error ellipse: s-maj=11.9km s-min=9.3km az=40.0.

(2) Southern Alaska

ISC	**IV**	**03 01 36 47.7–.53**	**61.33N–.03**	**151.17W–.03**	**68**	**3.9b**	**97**	**0-147**
ISCJB	IV	03 01 36 47.0–.21	61.36N–.02	151.15W–.05	68	3.8b		**¶16512204**
NEIC	IV	03 01 36 48.9	61.31N	151.14W	60	3.8L		
IDC	IV	03 01 36 48.9–2.8	61.54N	151.33W	75–21	3.8,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=135.3.
NEIC Event type fe. Felt [III] at Anchorage. Also felt at Eagle River. After AEIC.
IDC Error ellipse: s-maj=22.0km s-min=14.7km az=37.0.

(227) Eastern Honshu

ISC	**IV**	**03 01 54 09.3–1.0**	**37.08N–.04**	**140.83E–.05**	**6–5**	**3.7b**	**36**	**0-82**
NIED	IV	03 01 54 00	37.10N	140.90E	5	3.9W		**¶16406023**
ISCJB	IV	03 01 54 07.9–.77	37.09N–.04	140.91E–.05	8–3	3.8b		
IDC	IV	03 01 54 07.6–.93	37.06N	141.01E	0	3.9,3.8		
JMA	IV	03 01 54 09.2	37.09N	140.81E	6–1	4.1,3.8		
NEIC	IV	03 01 54 13.7–2.2	37.01N	140.79E	39–18	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ28.00000°,λ-96.00000°. NP2:ϕ_s246.00000°,δ62.00000°,λ-87.00000°. $M_0$7.68000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.7km az=36.3.
IDC Error ellipse: s-maj=23.3km s-min=20.0km az=86.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=21.0km s-min=13.0km az=74.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 02 32 17.0–2.0**	**38.20N–.05**	**141.97E–.09**	**27–12**	**3.7b**	**25**	**1-77**
NIED	IV	03 02 32 00	38.20N	141.90E	47	3.8W		**¶17199601**
JMA	IV	03 02 32 19.1–.10	38.24N	141.91E	47–2	3.9		
IDC	IV	03 02 32 33.6–2.4	37.92N	140.54E	150–22	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s13.00000°,δ68.00000°,λ85.00000°. $M_0$5.43000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=16.1km az=82.0.

(227) Eastern Honshu

ISC	**IV**	**03 02 49 29.2–.73**	**36.21N–.04**	**139.94E–.05**	**54–6**	**3.9b**	**44**	**0-117**
NIED	IV	03 02 49 00	36.20N	140.00E	56	4.1W		**¶16506166**
ISCJB	IV	03 02 49 28.6–.46	36.21N–.05	140.00E–.06	63–3	3.9b		
JMA	IV	03 02 49 29.6–.10	36.20N	139.97E	53–1	4.2		
IDC	IV	03 02 49 30.3–1.4	36.25N	139.80E	61–13	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ16.00000°,λ117.00000°. NP2:ϕ_s58.00000°,δ76.00000°,λ83.00000°. $M_0$1.42000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=7.8km az=162.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s64.00000°,δ73.00000°,λ87.00000°. NP2:ϕ_s253.00000°,δ17.00000°,λ98.00000°. Principal axes: T Plg62.0000°,Azm330.0000°; N Plg2.0000°,Azm65.0000°; P Plg28.0000°,Azm156.0000°
IDC Error ellipse: s-maj=15.3km s-min=8.1km az=62.0.

(229) Off east coast of Honshu

ISC	**IV**	**03 02 51 33.3–.74**	**38.13N–.06**	**143.15E–.07**	**18**	**3.9b**	**40**	**1-88**
NIED	IV	03 02 51 00	38.10N	143.10E	8	3.8W		**¶16529560**
ISCJB	IV	03 02 51 31.4–.50	38.10N–.05	143.29E–.05	18	3.9b		
JMA	IV	03 02 51 32.9–.40	38.14N	143.08E	10	3.7		
NEIC	IV	03 02 51 36.5–1.2	38.13N	143.23E	44–11	4.1b		
IDC	IV	03 02 51 36.2–3.4	38.12N	143.28E	39–30	4.0L,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ39.00000°,λ-77.00000°. NP2:ϕ_s284.00000°,δ52.00000°,λ-101.00000°. $M_0$6.10000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=6.2km az=176.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=8.0km az=103.0. Recorded [3 JMA] in Ibaraki and Tochigi.
IDC Error ellipse: s-maj=22.4km s-min=15.5km az=96.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**03 02 55 11.5–.20**	**35.71N**	**140.92E**	**8–1**	**3.4**		**¶17199605**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 02 55 54.3–2.0**	**37.31N–.05**	**141.68E–.07**	**7–11**	**3.8b**	**33**	**1-146**
NIED	IV	03 02 55 00	37.30N	141.70E	8	3.8W		**¶600576443**
JMA	IV	03 02 55 55.1–.20	37.31N	141.67E	28–3	3.8		
IDC	IV	03 02 56 04.5–3.3	37.24N	141.49E	90–30	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ29.00000°,λ-113.00000°. NP2:ϕ_s239.00000°,δ63.00000°,λ-77.00000°. $M_0$5.39000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=18.6km az=45.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**03 02 56 30.3–.10**	**38.83N**	**142.05E**	**54–1**	**3.8**		**¶600576447**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(135) Near coast of central Chile

ISC	**IV**	**03 03 03 44.2–.62**	**34.03S–.03**	**72.22W–.07**	**17**	**4.1b**	**40**	**0-154**
IDC	IV	03 03 03 41.9–1.1	34.06S	72.02W	0	4.1,3.9		**¶16529561**
NEIC	IV	03 03 03 44.0	34.20S	72.44W	11	4.5L,4.1b		
GUC	IV	03 03 03 44.1–.37	34.20S	72.44W	11–3	4.5L,4.1b		

ISC Event type fe.
IDC Error ellipse: s-maj=43.1km s-min=18.9km az=91.0.
NEIC Event type fe. Felt [II] at Talca. After GUC.
GUC Error ellipse: s-maj=4.3km s-min=2.6km az=-1.0.

(229) Off east coast of Honshu

ISC	**IV**	**03 03 09 08.9–.40**	**36.83N–.03**	**142.17E–.03**	**19–1**	**5.0b,4.7s**	**862**	**1-154**
NIED	IV	03 03 09 00	36.80N	142.20E	5	5.0W,4.7s		**¶16404924**
ISCJB	IV	03 03 09 04.9–.90	36.80N–.02	142.15E–.02	0–5	5.0b,4.7s		
IDC	IV	03 03 09 05.9–.44	36.75N	142.17E	0	4.8,4.8b		
BJI	IV	03 03 09 05.3	36.82N	142.05E	7	5.1b,5.0b		
JMA	IV	03 03 09 06.1–.30	36.82N	142.25E	20	5.1,5.0b		
NEIC	IV	03 03 09 08.0–2.4	36.78N	142.08E	12–15	5.1b,5.0b		
GCMT	IV	03 03 09 08.0–.30	36.87N	142.13E	12	5.0W,5.0b		
MOS	IV	03 03 09 10.6–1.0	37.23N	142.03E	25	5.3b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ19.00000°,λ121.00000°. NP2:ϕ_s9.00000°,δ74.00000°,λ80.00000°. $M_0$3.63000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=172.8.
IDC Error ellipse: s-maj=12.1km s-min=10.4km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.6km az=144.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c45; s90,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.84±.07 $M_{\theta\theta}$-0.46±.07; $M_{\phi\phi}$-2.38±.06; $M_{r\theta}$0.58±.26; $M_{\theta\phi}$-1.20±.06; $M_{\phi r}$1.28±.21; Best double couple: NP1:ϕ_s25.00000°,δ58.00000°,λ89.00000°. NP2:ϕ_s206.00000°,δ32.00000°,λ91.00000°. Principal axes: T 3.1620,Plg77.0000°,Azm293.0000°; N 0.1130,Plg1.0000°,Azm25.0000° ; P -3.2790,Plg13.0000°,Azm116.0000° $M_0$3.22100×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=108.7.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 03 39 45.2–1.9**	**38.31N–.06**	**142.13E–.07**	**27–12**	**3.8b**	**49**	**1-146**
NIED	IV	03 03 39 00	38.30N	142.10E	35	4.1W		**¶16506167**
JMA	IV	03 03 39 44.6–.10	38.30N	142.12E	41–2	4.1		
ISCJB	IV	03 03 39 45.2–.99	38.29N–.04	142.08E–.08	41–8	3.9b,2.5s		
IDC	IV	03 03 39 50.6–2.5	38.32N	141.97E	73–21	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ33.00000°,λ3.00000°. NP2:ϕ_s41.00000°,δ89.00000°,λ123.00000°. $M_0$1.68000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.4km az=17.2.
IDC Error ellipse: s-maj=20.4km s-min=16.2km az=149.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 04 14 26.2–1.8**	**39.78N–.05**	**142.54E–.08**	**30–11**	**4.0b**	**43**	**1-73**
NIED	IV	03 04 14 00	39.70N	142.10E	50	4.0W		**¶16529562**
IDC	IV	03 04 14 21.1–1.3	39.89N	142.80E	0	3.8b,3.8		
NEIC	IV	03 04 14 25.9–2.2	39.87N	142.66E	29–15	4.2b,3.8		
JMA	IV	03 04 14 30.5	39.70N	142.12E	48–1	3.6,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ66.00000°,λ-159.00000°. NP2:ϕ_s142.00000°,δ71.00000°,λ-26.00000°. $M_0$9.62000×10^{14}
IDC Error ellipse: s-maj=36.4km s-min=18.6km az=74.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.0km az=105.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**03 04 35 59.7–1.4**	**37.05N–.06**	**140.88E–.06**	**6–8**	**3.3b**	**21**	**0-57**
IDC	IV	03 04 35 58.7–2.4	36.90N	141.00E	0	3.5,3.3		**¶16406025**
ISCJB	IV	03 04 35 59.4–.99	37.08N–.03	140.94E–.07	8–4	3.4b,3.3		
JMA	IV	03 04 36 00.7	37.10N	140.84E	8–1	3.5,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=29.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.2km az=17.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ61.00000°,λ-86.00000°. NP2:ϕ_s18.00000°,δ29.00000°,λ-98.00000°. Principal axes: T Plg16.0000°,Azm293.0000°; N Plg4.0000°,Azm24.0000°; P Plg74.0000° ,Azm127.0000°

(572) Lake Tanganyika region

ISC	**IV**	**03 04 37 59.9–.40**	**3.61S–.05**	**29.75E–.05**	**10**	**4.6b,3.9s**	**113**	**7-129**
BJI	IV	03 04 37 55.2	4.36S	29.37E	10	4.9b,4.9b		**¶16404925**
IDC	IV	03 04 37 56.9–.55	3.52S	29.50E	0	4.4,4.3		
ISCJB	IV	03 04 37 57.8–.26	3.69S–.04	29.52E–.06	10	4.6b,3.8s		
NEIC	IV	03 04 37 59.5–.38	3.64S	29.60E	10	4.7b,3.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.6km s-min=10.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=3.8.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=7.9km az=87.0. Felt [IV] at Bujumbura. Felt [II] at Kigali, Rwanda. Also felt at Butare. Felt at Kabare, Congo.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 05 40 19.9–1.6**	**38.83N–.05**	**142.1E–.10**	**50–13**	**4.1b,3.1s**	**41**	**1-81**
NIED	IV	03 05 40 00	38.90N	142.00E	41	4.0W,3.1s		**¶17199618**
ISCJB	IV	03 05 40 18.9–.97	38.84N–.04	142.1E–.10	57–7	4.1b,3.1s		
JMA	IV	03 05 40 19.9–.10	38.85N	142.02E	46–1	3.9,3.1s		
IDC	IV	03 05 40 22.5–2.2	38.82N	142.00E	74–20	4.1,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ19.00000°,λ94.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ89.00000°. $M_0$1.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.4km az=5.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=13.7km az=101.0.

(227) Eastern Honshu

ISC	**IV**	**03 06 23 21.8–1.1**	**37.02N–.04**	**140.46E–.05**	**8–10**	**3.7b**	**21**	**0-57**
NIED	IV	03 06 23 00	37.00N	140.50E	5	3.5W		**¶17199622**
IDC	IV	03 06 23 20.0–2.0	37.10N	140.58E	0	3.8,3.6		
ISCJB	IV	03 06 23 22.1–.53	37.00N–.03	140.56E–.05	19–6	3.5b,3.6		
JMA	IV	03 06 23 22.2	37.00N	140.49E	5–2	3.5,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ28.00000°,λ-85.00000°. NP2:ϕ_s173.00000°,δ62.00000°,λ-92.00000°. $M_0$1.80000×10^{14}
IDC Error ellipse: s-maj=38.2km s-min=29.1km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=30.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s158.00000°,δ80.00000°,λ-89.00000°. NP2:ϕ_s332.00000°,δ10.00000°,λ-95.00000°. Principal axes: T Plg35.0000°,Azm247.0000°; N Plg1.0000°,Azm338.0000°; P Plg55.0000° ,Azm69.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 06 26 42.1–1.8**	**38.34N–.05**	**141.9E–.10**	**43–15**	**3.7b**	**25**	**0-58**
IDC	IV	03 06 26 33.7–2.9	38.53N	142.51E	0	3.7,3.6b		**¶17199623**
ISCJB	IV	03 06 26 42.2–1.1	38.33N–.04	141.8E–.10	55–7	3.5b,3.6b		
JMA	IV	03 06 26 42.6–.10	38.34N	141.83E	49–1	3.7,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=68.6km s-min=34.8km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=5.9km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 06 27 44.7–.98**	**35.70N–.07**	**141.14E–.08**	**33**	**3.9b**	**22**	**0-75**
NIED	IV	03 06 27 00	35.70N	141.00E	44	4.0W		**¶17199624**
IDC	IV	03 06 27 39.0–1.4	35.77N	141.39E	0	3.9,3.9b		
ISCJB	IV	03 06 27 42.5–.77	35.70N–.05	141.24E–.08	33	3.8b,2.9s		
JMA	IV	03 06 27 45.5–.10	35.74N	140.97E	34–1	3.5,2.9s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ18.00000°,λ130.00000°. NP2:ϕ_s357.00000°,δ76.00000°,λ78.00000°. $M_0$1.23000×10^{15}
IDC Error ellipse: s-maj=41.1km s-min=18.0km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.5km az=167.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 07 38 45.6–.28**	**37.59N–.03**	**141.57E–.03**	**57–2**	**5.3b,4.7s**	**1184**	**1-157**
NIED	IV	03 07 38 00	37.60N	141.60E	53	5.3W,4.7s		**¶602567221**
MOS	IV	03 07 38 41.9–.80	37.65N	141.43E	32	5.5b,4.7s		
BJI	IV	03 07 38 41.9	37.52N	141.74E	55	5.2b,5.0b		
ISCJB	IV	03 07 38 45.7–.26	37.66N–.02	141.48E–.02	64–2	5.3b,5.0b		
IDC	IV	03 07 38 45.9–.45	37.65N	141.53E	57–4	4.9,4.7		
JMA	IV	03 07 38 45.1	37.63N	141.65E	47–2	5.4,4.7		
GCMT	IV	03 07 38 46.5–.10	37.72N	141.57E	54–0	5.2W,4.7		
NEIC	IV	03 07 38 46.5–.38	37.64N	141.45E	59–3	5.4b,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ38.00000°,λ107.00000°. NP2:ϕ_s197.00000°,δ54.00000°,λ77.00000°. $M_0$9.16000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=102.7.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=155.8.
IDC Error ellipse: s-maj=9.6km s-min=7.8km az=101.0.
JMA Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c155; s110,c184; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.02 $M_{\theta\theta}$-0.19±.01; $M_{\phi\phi}$-0.68±.01; $M_{r\theta}$0.10±.01; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$-0.26±.01; Best double couple: NP1:ϕ_s194.00000°,δ52.00000° ,λ76.00000°. NP2:ϕ_s37.00000°,δ40.00000°,λ108.00000°. Principal axes: T 0.9380,Plg77.0000°,Azm53.0000°; N -0.0820,Plg11.0000°,Azm203.0000° ; P -0.8580,Plg6.0000°,Azm294.0000° $M_0$0.89800×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=138.0. Recorded [4 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 07 51 03.6–.41**	**35.88N–.04**	**141.78E–.05**	**23**	**4.4b,3.8s**	**124**	**1-152**
IDC	IV	03 07 50 59.8–.51	35.90N	141.77E	0	4.4,4.3		**¶16404932**
NIED	IV	03 07 51 00	36.00N	141.80E	17	4.3W,4.3		
ISCJB	IV	03 07 51 01.7–.28	35.90N–.03	141.80E–.04	23	4.4b,3.7s		
JMA	IV	03 07 51 02.6–.30	36.00N	141.77E	35–5	4.4,3.7s		
NEIC	IV	03 07 51 05.3–.61	35.85N	141.73E	38–5	4.6b,3.7s		

ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.5km az=87.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ35.00000°,λ-108.00000°. NP2:ϕ_s231.00000°,δ57.00000°,λ-78.00000°. $M_0$3.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=38.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.6km az=86.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 07 53 07.1–.54**	**37.64N–.04**	**141.62E–.05**	**54–4**	**4.4b**	**90**	**1-152**
NIED	IV	03 07 53 00	37.70N	141.60E	53	4.3W		**¶16506169**
ISCJB	IV	03 07 53 05.1–.53	37.62N–.03	141.70E–.06	55–4	4.4b		
NEIC	IV	03 07 53 05.4–.28	37.67N	141.64E	35	4.5b		
JMA	IV	03 07 53 07.2–.10	37.68N	141.60E	46–2	4.3		
IDC	IV	03 07 53 07.5–.55	37.69N	141.52E	55–4	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ36.00000°,λ75.00000°. NP2:ϕ_s23.00000°,δ55.00000°,λ101.00000°. $M_0$3.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.1km az=13.4.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=112.0.
JMA Event type fe.
IDC Error ellipse: s-maj=11.7km s-min=9.9km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 08 11 21.0–2.5**	**37.04N–.07**	**141.88E–.10**	**7–13**	**3.6b**	**20**	**1-57**
NIED	IV	03 08 11 00	37.00N	141.70E	41	3.7W		**¶600576608**
IDC	IV	03 08 11 19.7–1.3	37.05N	141.90E	0	3.7,3.6		
ISCJB	IV	03 08 11 21.0–1.7	37.01N–.06	141.92E–.10	19–10	3.5b,3.6		
JMA	IV	03 08 11 25.0–.20	37.02N	141.66E	47–3	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ10.00000°,λ57.00000°. NP2:ϕ_s6.00000°,δ81.00000°,λ96.00000°. $M_0$4.20000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=25.7km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=9.9km az=179.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 08 42 03.6–1.6**	**38.37N–.04**	**142.09E–.06**	**15–10**	**3.9b**	**49**	**1-146**
NIED	IV	03 08 42 00	38.50N	142.10E	29	3.9W		**¶16512209**
IDC	IV	03 08 42 01.7–.62	38.42N	142.07E	0	4.0,3.9		
ISCJB	IV	03 08 42 03.0–1.1	38.35N–.03	142.19E–.07	25–7	3.9b,3.9		
JMA	IV	03 08 42 05.5–.10	38.48N	142.09E	34–2	4.1,3.9		
NEIC	IV	03 08 42 06.5–.33	38.36N	142.08E	35	4.7b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ27.00000°,λ-32.00000°. NP2:ϕ_s280.00000°,δ76.00000°,λ-114.00000°. $M_0$6.96000×10^{14}
IDC Error ellipse: s-maj=19.8km s-min=13.8km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.7km az=13.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=114.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 09 35 52.9–.70**	**37.21N–.04**	**141.42E–.07**	**38–2**	**3.9b**	**52**	**0-147**
NIED	IV	03 09 35 00	37.20N	141.20E	50	3.9W		**¶600576658**
ISCJB	IV	03 09 35 51.7–.66	37.18N–.03	141.47E–.06	45–6	3.9b,3.0s		
NEIC	IV	03 09 35 54.2–1.3	37.19N	141.44E	50–12	4.3b,3.0s		
IDC	IV	03 09 35 54.3–2.3	37.18N	141.37E	53–22	3.9,3.9L		
JMA	IV	03 09 35 54.1–.10	37.23N	141.24E	50–1	4.0,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ25.00000°,λ115.00000°. NP2:ϕ_s359.00000°,δ67.00000°,λ78.00000°. $M_0$8.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.7km az=6.3.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.8km az=61.0.
IDC Error ellipse: s-maj=16.8km s-min=11.7km az=69.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 10 40 34.9–1.8**	**39.06N–.04**	**142.36E–.07**	**20–8**	**3.8b**	**26**	**1-88**
NIED	IV	03 10 40 00	39.10N	142.40E	35	3.8W		**¶17199647**
IDC	IV	03 10 40 31.4–1.1	38.95N	142.34E	0	3.9,3.7b		
ISCJB	IV	03 10 40 34.1–1.1	39.05N–.04	142.48E–.07	25–6	3.6b,3.0s		
JMA	IV	03 10 40 35.9–.10	39.10N	142.40E	33–1	4.0,3.0s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ22.00000°,λ-142.00000°. NP2:ϕ_s146.00000°,δ77.00000°,λ-72.00000°. $M_0$6.27000×10^{14}
IDC Error ellipse: s-maj=30.0km s-min=27.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.9km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 11 57 16.2–.54**	**35.91N–.05**	**140.99E–.07**	**31**	**4.0b,2.9s**	**40**	**0-148**
NIED	IV	03 11 57 00	35.90N	141.10E	8	4.1W,2.9s		**¶16499038**
IDC	IV	03 11 57 11.7–.75	35.89N	141.05E	0	4.0,3.9		
NEIC	IV	03 11 57 12.0–2.8	35.90N	141.06E	2–18	4.4b,3.9		
ISCJB	IV	03 11 57 14.6–.41	35.94N–.03	141.04E–.05	31	4.0b,2.9s		
JMA	IV	03 11 57 14.2–.10	35.91N	141.05E	30–1	4.1,2.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ27.00000°,λ-3.00000°. NP2:ϕ_s343.00000°,δ89.00000°,λ-117.00000°. $M_0$1.44000×10^{15}
IDC Error ellipse: s-maj=20.0km s-min=17.0km az=112.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.6km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=176.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 12 57 39.3–.58**	**37.25N–.03**	**141.46E–.04**	**45–4**	**4.8b,3.8s**	**387**	**0-157**
NIED	IV	03 12 57 00	37.30N	141.50E	41	4.7W,3.8s		**¶16404937**
IDC	IV	03 12 57 33.0–.47	37.26N	141.38E	0	5.1L,4.6		
BJI	IV	03 12 57 35.1	37.14N	141.60E	39	5.0b,4.9b		
MOS	IV	03 12 57 36.5–.86	37.25N	141.30E	32	5.1b,4.9b		
ISCJB	IV	03 12 57 38.8–.37	37.25N–.02	141.38E–.03	52–2	4.8b,3.8s		
JMA	IV	03 12 57 39.2–.10	37.26N	141.40E	48–1	4.6,3.8s		
NEIC	IV	03 12 57 41.4–.56	37.28N	141.30E	59–5	4.9b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ23.00000°,λ89.00000°. NP2:ϕ_s23.00000°,δ67.00000°,λ90.00000°. $M_0$1.26000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=12.0km az=122.0.
MOS Error ellipse: s-maj=9.1km s-min=5.0km az=111.1.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=32.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=132.0. Recorded [4 JMA] in Fukushima.

(229) Off east coast of Honshu

ISC	**IV**	**03 13 18 06.7–.54**	**36.74N–.03**	**142.17E–.03**	**29–3**	**5.0b,4.9s**	**635**	**1-154**
NIED	IV	03 13 18 00	36.70N	142.30E	20	5.1W,4.9s		**¶600576799**
IDC	IV	03 13 18 02.5–.37	36.71N	142.16E	0	4.7,4.6		
JMA	IV	03 13 18 02.6–.40	36.74N	142.32E	15–5	4.9,4.6		
ISCJB	IV	03 13 18 04.4–.72	36.75N–.02	142.17E–.02	21–5	4.9b,4.8s		
BJI	IV	03 13 18 05.8	36.83N	141.97E	30	5.1b,5.1b		
MOS	IV	03 13 18 07.6–.91	37.07N	142.07E	32	5.2b,4.8s		
NEIC	IV	03 13 18 08.0–.49	36.76N	142.14E	36–4	5.0b,4.8s		
GCMT	IV	03 13 18 08.0–.20	36.74N	142.28E	26–0	5.1W,4.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ23.00000°,λ93.00000°. NP2:ϕ_s27.00000°,δ67.00000°,λ89.00000°. $M_0$4.44000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=9.1km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=152.8.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=108.4.

NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c73; s89,c155; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.84±.17 $M_{\theta\theta}$-1.05±.10; $M_{\phi\phi}$-2.79±.11; $M_{r\theta}$2.33±.20; $M_{\theta r}$-1.37±.06; $M_{\phi r}$3.98±.22; Best double couple: NP1:ϕ_s30.00000°,δ71.00000°,λ91.00000°. NP2:ϕ_s208.00000°,δ19.00000°,λ88.00000°. Principal axes: T 6.0570,Plg64.0000°,Azm301.0000°; N -0.2990,Plg1.0000°,Azm210.0000°; P -5.7580,Plg26.0000°,Azm119.0000° $M_0$5.90700×10^{16}

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 14 14 44.6–2.2**	**39.00N–.06**	**142.41E–.10**	**25–13**	**4.3b**	**26**	**1-63**
NIED	IV	03 14 14 00	39.00N	142.40E	29	4.0W		**¶600576842**
IDC	IV	03 14 14 38.5–1.9	39.07N	143.08E	0	4.4,4.4s		
ISCJB	IV	03 14 14 44.9–1.3	38.99N–.05	142.4E–.10	38–9	4.3b,4.2s		
NEIC	IV	03 14 14 44.3–.90	39.02N	142.90E	35	4.4b,4.2s		
JMA	IV	03 14 14 45.1–.10	39.01N	142.38E	34–2	3.7,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ27.00000°,λ-122.00000°. NP2:ϕ_s188.00000°,δ67.00000°,λ-75.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=50.7km s-min=21.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=7.9km az=16.2.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=12.3km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 14 20 55.6–1.2**	**36.78N–.04**	**140.53E–.04**	**5–9**	**4.5s,3.9b**	**28**	**0-91**
ISCJB	IV	03 14 20 55.5–.71	36.68N–.03	140.71E–.05	12–4	4.4s,3.8b		**¶602567202**
IDC	IV	03 14 20 55.1–.82	36.82N	140.53E	0	4.4,4.4s		
JMA	IV	03 14 20 56.5	36.70N	140.64E	6–1	3.7,4.4s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=23.7.
IDC Error ellipse: s-maj=18.5km s-min=14.0km az=166.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s120.00000°,δ69.00000°,λ-126.00000°. NP2:ϕ_s4.00000°,δ41.00000°,λ-33.00000°. Principal axes: T Plg16.0000°,Azm236.0000°; N Plg34.0000°,Azm135.0000°; P Plg52.0000°,Azm347.0000°

(229) Off east coast of Honshu

ISC	**IV**	**03 14 53 23.7–.57**	**37.84N–.03**	**142.22E–.04**	**30–3**	**5.0b,4.3s**	**542**	**1-160**
NIED	IV	03 14 53 00	37.90N	142.10E	38	4.8W,4.3s		**¶602597206**
MOS	IV	03 14 53 22.9–.86	37.91N	142.13E	31	5.1b,4.3s		
ISCJB	IV	03 14 53 23.6–.45	37.86N–.02	142.13E–.03	37–3	4.9b,4.3s		
JMA	IV	03 14 53 23.7–.20	37.87N	142.13E	40–4	4.9,4.3s		
BJI	IV	03 14 53 24.3	37.84N	142.14E	55	5.2b,5.0b		
IDC	IV	03 14 53 25.6–1.7	37.84N	142.13E	41–15	4.8,4.7		
NEIC	IV	03 14 53 26.5–.44	37.88N	142.10E	49–4	4.9b,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ45.00000°,λ-81.00000°. NP2:ϕ_s18.00000°,δ46.00000°,λ-99.00000°. $M_0$1.55000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.5.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=40.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.4km s-min=8.0km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=135.0. Recorded [3 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**IV**	**03 14 55 27.7–.74**	**37.86N–.04**	**142.25E–.05**	**27–5**	**4.4b**	**93**	**1-146**
NIED	IV	03 14 55 00	37.90N	142.20E	32	4.4W		**¶16499047**
ISCJB	IV	03 14 55 26.7–.69	37.84N–.03	142.25E–.05	34–6	4.3b		
MOS	IV	03 14 55 26.2–1.1	37.83N	142.33E	32	4.5b		
JMA	IV	03 14 55 27.4–.20	37.86N	142.16E	36–4	4.5		
IDC	IV	03 14 55 29.8–1.9	37.82N	142.10E	42–18	4.3,4.2		
NEIC	IV	03 14 55 30.4–.64	37.81N	142.16E	51–6	5.0b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ55.00000°,λ173.00000°. NP2:ϕ_s251.00000°,δ84.00000°,λ35.00000°. $M_0$3.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=19.1.
MOS Error ellipse: s-maj=10.0km s-min=7.3km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=9.8km az=93.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.6km az=89.0.

(48) Baja California

ISC	**IV**	**03 15 30 21.2–1.1**	**31.79N–.03**	**116.07W–.02**	**5–11**		**88**	**0-6**
ISCJB	IV	03 15 30 21.5–.54	31.76N–.03	116.10W–.03	11–4			**¶16407586**
NEIC	IV	03 15 30 22.9	31.75N	116.11W	7	3.5L,3.4L		
ECX	IV	03 15 30 22.9–.46	31.75N	116.11W	7	3.5L,3.3		
MEX	IV	03 15 30 23.7–1.0	31.71N	116.19W	16–12	3.6,3.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=32.8.
NEIC Event type fe. Felt at Ensenada. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=5.5km s-min=7.1km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 15 40 46.3–2.2**	**38.50N–.06**	**142.0E–.10**	**25–13**	**3.6b**	**19**	**1-62**
IDC	IV	03 15 40 42.5–1.4	38.41N	142.01E	0	3.7,3.6		**¶17199663**
ISCJB	IV	03 15 40 45.2–1.3	38.46N–.05	142.06E–.08	29–6	3.5b,3.6		
JMA	IV	03 15 40 46.6–.10	38.50N	142.00E	32–1	3.8,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=51.8km s-min=23.1km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=8.9km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 17 10 21.7–1.8**	**38.26N–.07**	**141.9E–.10**	**41–16**	**3.7s,3.6b**	**30**	**0-146**
IDC	IV	03 17 10 15.8–.79	38.20N	141.90E	0	3.9,3.9		**¶600576909**
ISCJB	IV	03 17 10 21.5–.90	38.28N–.05	141.83E–.10	52–7	4.0s,3.6b		
JMA	IV	03 17 10 22.2–.10	38.29N	141.80E	49–1	3.9,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=19.7km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=6.0km az=22.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(460) Wyoming

ISC	**IV**	**03 18 06 49.6–.87**	**43.78N–.04**	**105.30W–.05**	**0**		**25**	**1-20**
IDC	IV	03 18 06 50.3–2.2	43.76N	105.36W	0	3.5,3.3		**¶17199682**
ISCJB	IV	03 18 06 51.9–.93	43.62N–.05	105.38W–.10	0	3.5,3.3		
NEIC	IV	03 18 06 52.8–.86	43.69N	105.36W	0	3.1L,3.3		

ISC Event type sm.
IDC Error ellipse: s-maj=57.2km s-min=8.5km az=149.0.
ISCJB Event type fm. Error ellipse: s-maj=11.1km s-min=5.4km az=150.8.
NEIC Event type fm. Error ellipse: s-maj=11.2km s-min=7.3km az=58.0. 71 km [44 miles] SSE of Gillette. Suspected Mining explosion.

(248) Philippine Islands region

ISC	**IV**	**03 18 28 27.2–.61**	**13.09N–.03**	**120.01E–.04**	**57–5**	**4.5b,3.5s**	**153**	**1-120**
IDC	IV	03 18 28 19.5–.50	13.21N	120.11E	0	4.5,4.4b		**¶16405110**
MAN	IV	03 18 28 23	13.11N	119.89E	50	5.4b,4.7s		
BJI	IV	03 18 28 24.4	12.99N	120.12E	63	4.8b,4.5b		
ISCJB	IV	03 18 28 25.7–.40	13.14N–.03	120.05E–.03	59–4	4.6b,3.5s		
NEIC	IV	03 18 28 26.0–1.5	13.17N	119.99E	50–14	4.8b,3.5s		
BKK	IV	03 18 28 27.2–.60	14N–5.0	120E–6.0	10	5.5b,5.1		
DJA	IV	03 18 28 29.9–.50	14N–5.0	119E–6.0	10	6.0b,5.6		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Manila, Luzon.

(282) South of Jawa

ISC	**IV**	**03 20 06 43.3–.35**	**9.73S–.02**	**107.77E–.03**	**32–2**	**6.3b,6.3s**	**2080**	**2-178**
IDC	IV	03 20 06 38.5–.29	9.74S	107.82E	0	6.1s,6.1		**¶16405115**
ISCJB	IV	03 20 06 39.8–.49	9.84S–.02	107.77E–.01	18–3	6.3s,6.2b		
GCMT	IV	03 20 06 40.4–.10	10.10S	107.72E	21–0	6.7W,6.2b		
NEIC	IV	03 20 06 40.4–.13	9.85S	107.69E	14	6.7,6.7W		
BJI	IV	03 20 06 40.9	9.85S	107.80E	20	6.7s,6.5		
DJA	IV	03 20 06 40.5–.10	10S–1.0	108E–1.0	10	8.0,6.8b		
MOS	IV	03 20 06 41.9–1.0	9.72S	107.89E	33	6.3b,6.1s		
NEIC	IV	03 20 06 42.0–.00	10.19S	107.95E	24	6.3b,6.1s		
KLM	IV	03 20 06 42.6	9.94S	107.57E	55	7.5s,6.7b		

ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=34.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c320; s139,c602;Duration: 5s7 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.18±.01 $M_{\theta\theta}$1.42±.01; $M_{\phi\phi}$-0.23±.01; $M_{r\theta}$0.27±.01; $M_{\theta\phi}$-0.89±.01; $M_{\phi r}$-0.30±.02; Best double couple: NP1:ϕ_s307.00000°,δ53.00000°,λ-72.00000°. NP2:ϕ_s98.00000°,δ40.00000°,λ-112.00000°. Principal axes: T 1.8540,Plg7.0000°,Azm24.0000°; N -0.5850,Plg14.0000°,Azm116.0000°; P -1.2660,Plg74.0000°,Azm269.0000° $M_0$1.56000×10^{19}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=214.0. Felt [V] at Tasikmalaya and Wonosobo; [IV] at Cilacap and Pangandaran; [III] at Bandung, Bogor and Sleman; [II] at Cisarua, Jakarta, Karangkates, Purworejo and Yogyakarta. Felt [II] at Denpasar, Kuta and Ubud, Bali. Felt in much of Bali and Java. Also felt in Singapore. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s183.00000°,δ46.00000°,λ-36.00000°. NP2:ϕ_s300.00000°,δ65.00000°,λ-130.00000°. Principal axes: T Plg11.0000°,Azm58.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm162.0000°
MOS Error ellipse: s-maj=7.5km s-min=4.3km az=120.2.
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.21 $M_{\theta\theta}$1.16 $M_{\phi\phi}$0.05 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.66 $M_{\phi r}$-0.08 Best double couple: NP1:ϕ_s290.00000°,δ53.00000°,λ-96.00000°. NP2:ϕ_s121.00000°,δ37.00000°,λ-81.00000°. Principal axes: T 1.5200,Plg8.0000°,Azm24.0000°; N -0.2500,Plg5.0000°,Azm293.0000°; P -1.2700,Plg80.0000°,Azm171.0000° $M_0$1.40000×10^{19}

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 20 45 17.9–2.1**	**39.01N–.05**	**142.34E–.10**	**23–14**	**3.6b**	**22**	**1-47**
IDC	IV	03 20 44 56.5–34	35.81N	142.75E	0	3.5,3.5b		**¶600576992**
ISCJB	IV	03 20 45 17.0–1.3	39.02N–.04	142.43E–.08	24–6	3.5b,3.5b		
JMA	IV	03 20 45 18.3–.10	39.06N	142.38E	31–1	3.6,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=872.1km s-min=34.5km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.0km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(14) Kenai Peninsula

ISC	**IV**	**03 20 58 29.7–.80**	**60.69N–.03**	**151.60W–.03**	**78–6**	**3.9b**	**87**	**0-69**
ISCJB	IV	03 20 58 28.5–.25	60.70N–.02	151.59W–.05	86–3	3.6b		**¶16577644**
NEIC	IV	03 20 58 30.6	60.70N	151.61W	70	3.4L		
IDC	IV	03 20 58 33.3–5.9	60.95N	151.42W	100–43	3.6,3.4b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=41.2.
NEIC Event type fe. Felt at Girdwood. After AEIC.
IDC Error ellipse: s-maj=52.4km s-min=37.2km az=167.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**03 21 15 18.5–.10**	**37.71N**	**141.74E**	**34–2**	**3.9**		
								¶600577014

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 22 12 28.7–2.5**	**36.83N–.08**	**141.2E–.10**	**30–11**	**3.3b**	**19**	**0-90**
IDC	IV	03 22 12 14.9–2.9	36.29N	142.43E	0	3.7,3.5		**¶17199706**
JMA	IV	03 22 12 29.3–.10	36.81N	141.11E	48–1	3.7,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=82.9km s-min=25.0km az=1.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 22 34 41.9–.97**	**36.79N–.03**	**140.57E–.06**	**13–8**	**3.6b**	**21**	**0-57**
IDC	IV	03 22 34 39.7–2.0	36.74N	140.75E	0	3.7,3.6		**¶17199711**
ISCJB	IV	03 22 34 41.5–.72	36.76N–.03	140.68E–.07	17–6	3.5b,3.6		
JMA	IV	03 22 34 42.4	36.80N	140.56E	7–1	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=43.1km s-min=28.7km az=48.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.6km az=25.3.
JMA Event type fe.

(224) Hokkaido region

ISC	**IV**	**03 23 17 27.7–.62**	**43.90N–.06**	**145.74E–.04**	**121–5**	**3.8b**	**73**	**0-83**
ISCJB	IV	03 23 17 26.9–.32	43.87N–.05	145.76E–.05	127–2	3.8b		**¶16455837**
MOS	IV	03 23 17 26.6–1.1	44.03N	145.63E	125	3.9b		
IDC	IV	03 23 17 27.7–2.8	44.05N	145.64E	115–25	3.9,3.7		
SKHL	IV	03 23 17 27.8–.20	43.78N	145.84E	124–4	5.5s,5.0b		
JMA	IV	03 23 17 28.2–.20	43.91N	145.76E	117–2	3.7,5.0b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.9km az=155.5.
MOS Error ellipse: s-maj=17.1km s-min=11.4km az=74.4.
IDC Error ellipse: s-maj=15.9km s-min=12.7km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**03 23 32 41.2–.10**	**37.14N**	**141.32E**	**48–1**	**3.6**		
								¶600577061

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**03 23 33 02.1–.99**	**35.68N–.06**	**140.74E–.09**	**46–8**	**3.7b**	**21**	**0-79**
ISCJB	IV	03 23 33 01.3–.78	35.65N–.06	140.7E–.10	57–6	3.7b		**¶600577063**
JMA	IV	03 23 33 01.5–.20	35.72N	140.70E	47–2	3.3		
IDC	IV	03 23 33 03.7–2.7	35.59N	140.57E	60–24	3.7,3.5L		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=9.3km az=179.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=30.0km s-min=12.9km az=74.0.

(249) Luzon

ISC	**IV**	**03 23 53 30.1–.48**	**19.05N–.06**	**121.12E–.05**	**46**	**4.2b**	**72**	**1-88**
BKK	IV	03 23 53 08.2–2.1	20N–13	123E–22	10	4.7b,4.4b		**¶16455838**
ISCJB	IV	03 23 53 28.9–.32	19.07N–.03	121.14E–.04	46	4.2b,3.3s		
NEIC	IV	03 23 53 28.6–1.1	18.73N	121.27E	51–10	4.4b,3.3s		
MAN	IV	03 23 53 30	18.86N	121.14E	10	5.1b,4.3s		
IDC	IV	03 23 53 31.1–3.6	18.73N	121.29E	75–34	4.2,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=177.9.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=7.8km az=143.0. Felt [II PIVS] at Camalaniugan and Claveria.
MAN Event type fe. INTENSITY II - CLAVERIA & CALAMANIUGAN CAGAYAN.
IDC Error ellipse: s-maj=19.4km s-min=12.7km az=70.0.

(229) Off east coast of Honshu

ISC	**IV**	**03 23 54 25.9–1.6**	**39.53N–.05**	**143.08E–.05**	**8–9**	**4.5b,4.2s**	**92**	**1-145**
NIED	IV	03 23 54 00	39.60N	143.10E	14	4.5W,4.2s		**¶16525078**
JMA	IV	03 23 54 25.9–.20	39.62N	143.11E	21–3	4.7,4.2s		
ISCJB	IV	03 23 54 25.9–1.1	39.57N–.04	143.11E–.05	16–7	4.4b,4.2s		
NEIC	IV	03 23 54 28.9–2.1	39.55N	143.12E	28–15	4.5b,4.2s		
IDC	IV	03 23 54 30.4–2.5	39.55N	143.06E	37–21	4.4,4.3		
BJI	IV	03 23 54 33.0	40.50N	142.60E	20	4.9b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ29.00000°,λ68.00000°. NP2:ϕ_s199.00000°,δ64.00000°,λ102.00000°. $M_0$5.38000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.4km az=44.3.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.4km az=110.0.
IDC Error ellipse: s-maj=13.7km s-min=10.7km az=107.0.

(14) Kenai Peninsula

ISC	**IV**	**04 00 56 38.5–.71**	**60.73N–.03**	**150.46W–.03**	**50–6**	**3.4b**	**86**	**0-65**
ISCJB	IV	04 00 56 37.3–.26	60.73N–.02	150.45W–.04	63–4	3.4b		**¶16506201**
NEIC	IV	04 00 56 39.0	60.74N	150.49W	41	3.5L		
IDC	IV	04 00 56 39.5–1.1	60.90N	150.67W	60–8	3.4,3.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=154.0.
NEIC Event type fe. Felt [II] at Anchorage. Also felt at Sterling. After AEIC.
IDC Error ellipse: s-maj=17.9km s-min=16.5km az=144.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 01 40 03.1–2.3**	**36.58N–.06**	**141.32E–.09**	**8–12**	**3.5b**	**20**	**1-57**
IDC	IV	04 01 40 02.6–2.4	36.26N	141.29E	0	3.5,3.4		**¶600577136**
ISCJB	IV	04 01 40 05.4–1.7	36.61N–.05	141.25E–.10	20–9	3.3b,3.4		
JMA	IV	04 01 40 06.9–.10	36.62N	141.14E	44–2	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=29.4km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.7km az=27.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
JMA IV 04 02 13 20.8–.10 38.50N 141.99E 32–1 3.9
NIED IV 04 02 13 00 38.50N 142.00E 68 4.5W **¶600577158**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ31.00000°,λ-30.00000°. NP2:ϕ_s156.00000°,δ75.00000°,λ-118.00000°. $M_0$6.60000×10^{15}
(162) South Island
WEL IV 04 02 23 42.5–.09 43.56S 172.77E 10–0 4.0L
NEIC IV 04 02 23 42.6 43.56S 172.76E 10 4.0L **¶16406771**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
(228) Near east coast of eastern Honshu
ISC IV 04 03 05 58.7–1.7 36.67N–.04 141.12E–.08 24–10 3.8b 26 0-83
NIED IV 04 03 05 00 36.60N 141.10E 35 3.6W **¶600577179**
IDC IV 04 03 05 54.3–1.6 36.73N 141.48E 0 3.8,3.7
ISCJB IV 04 03 05 57.6–1.1 36.63N–.04 141.16E–.08 27–5 3.6b,2.2s
JMA IV 04 03 05 58.6–.10 36.64N 141.09E 36–1 3.7,2.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ65.00000°,λ-166.00000°. NP2:ϕ_s58.00000°,δ77.00000°,λ-26.00000°. $M_0$2.53000×10^{14}
IDC Error ellipse: s-maj=43.2km s-min=23.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.3km az=16.9.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 04 03 28 45.7–.68 38.15N–.04 141.74E–.07 45–5 3.9b,3.3s 52 0-146
NIED IV 04 03 28 00 38.20N 141.70E 68 3.9W,3.3s **¶16506181**
ISCJB IV 04 03 28 45.5–.64 38.17N–.04 141.69E–.07 57–5 3.9b,3.2s
JMA IV 04 03 28 46.2–.10 38.17N 141.68E 52–1 3.7,3.2s
IDC IV 04 03 28 48.2–.81 38.07N 141.61E 70–6 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ27.00000°,λ137.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ70.00000°. $M_0$9.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.0km az=21.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=11.2km az=101.0.
(228) Near east coast of eastern Honshu
ISC IV 04 04 30 07.4–1.3 35.28N–.04 141.14E–.06 26–9 4.2b,3.6s 62 0-148
NIED IV 04 04 30 00 35.30N 141.20E 23 4.3W,3.6s **¶16506196**
IDC IV 04 04 30 03.9–.57 35.30N 141.03E 0 4.2,4.1
ISCJB IV 04 04 30 06.5–.73 35.25N–.03 141.19E–.06 34–6 4.2b,3.5s
JMA IV 04 04 30 06.9–.10 35.33N 141.17E 37–2 4.3,3.5s
NEIC IV 04 04 30 06.1–3.1 35.29N 141.11E 15–19 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ41.00000°,λ-175.00000°. NP2:ϕ_s232.00000°,δ86.00000°,λ-49.00000°. $M_0$2.87000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=13.4km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.9km az=179.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=7.3km az=88.0. Recorded [1 JMA] in Chiba.
(228) Near east coast of eastern Honshu
ISC IV 04 04 43 46.0–1.1 36.90N–.03 140.58E–.04 6–6 4.3b,3.2s 89 0-147
NIED IV 04 04 43 00 36.90N 140.60E 5 4.1W,3.2s **¶16506183**
IDC IV 04 04 43 45.0–.50 36.90N 140.57E 0 4.4,4.3
ISCJB IV 04 04 43 45.9–.57 36.88N–.02 140.74E–.04 16–4 4.3b,3.3s
NEIC IV 04 04 43 46.6–2.4 36.87N 140.64E 11–15 4.5b,3.3s
JMA IV 04 04 43 46.4 36.90N 140.64E 5–1 4.3,3.3s
MOS IV 04 04 43 47.3–1.3 36.88N 140.76E 28 4.4b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ27.00000°,λ-110.00000°. NP2:ϕ_s220.00000°,δ64.00000°,λ-80.00000°. $M_0$1.48000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=12.6km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.5km az=31.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=107.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ57.00000°,λ-85.00000°. NP2:ϕ_s28.00000°,δ33.00000°,λ-98.00000°. Principal axes: T Plg12.0000°,Azm303.0000°; N Plg4.0000°,Azm34.0000°; P Plg77.0000°,Azm142.0000°
MOS Error ellipse: s-maj=10.4km s-min=7.5km az=90.0.
(228) Near east coast of eastern Honshu
JMA IV 04 05 14 35.3–.10 38.59N 142.04E 26–2 3.5 ¶600577216
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC IV 04 06 12 54.8–.41 39.09N–.04 143.47E–.04 20 4.5b,3.8s 195 1-145
NIED IV 04 06 12 00 39.10N 143.50E 11 4.3W,3.8s **¶16407598**
JMA IV 04 06 12 51.5–.30 39.12N 143.55E 6 4.4,3.8s
IDC IV 04 06 12 51.5–.58 39.02N 143.37E 0 4.5,4.3
ISCJB IV 04 06 12 53.6–.23 39.10N–.03 143.48E–.03 20 4.5b,3.8s
MOS IV 04 06 12 55.1–1.3 39.20N 143.43E 31 4.6b,3.8s
NEIC IV 04 06 12 57.3–.70 39.08N 143.39E 35–7 4.6b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ38.00000°,λ-53.00000°. NP2:ϕ_s237.00000°,δ61.00000°,λ-115.00000°. $M_0$3.75000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=12.7km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=156.9.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=90.5.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.2km az=140.0.
(227) Eastern Honshu
ISC IV 04 07 22 02.4–1.0 37.22N–.04 140.81E–.06 12–6 3.8b,3.2s 28 0-147
NIED IV 04 07 22 00 37.20N 140.90E 5 3.9W,3.2s **¶600577265**
JMA IV 04 07 22 02.0 37.21N 140.94E 8–1 3.5,3.2s
IDC IV 04 07 22 09.4–2.2 37.21N 140.88E 69–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s274.00000°,δ58.00000°,λ-94.00000°. $M_0$6.95000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=14.6km az=134.0.
(228) Near east coast of eastern Honshu
ISC IV 04 07 44 00.2–.79 38.24N–.04 142.05E–.06 27–5 4.0b 48 1-146
ISCJB IV 04 07 43 59.8–.80 38.24N–.03 142.13E–.07 37–7 4.1b,3.4s **¶600577272**
JMA IV 04 07 44 00.8–.20 38.33N 142.11E 41–3 4.1,3.4s
NIED IV 04 07 44 00 38.30N 142.10E 35 4.1W,3.4s
NEIC IV 04 07 44 02.8–.91 38.30N 142.16E 46–9 4.7b,3.4s
IDC IV 04 07 44 02.1–.67 38.27N 142.07E 39–6 4.1,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.8km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ29.00000°,λ-24.00000°. NP2:ϕ_s225.00000°,δ79.00000°,λ-117.00000°. $M_0$1.80000×10^{15}
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.7km az=117.0.
IDC Error ellipse: s-maj=17.7km s-min=13.5km az=104.0.
(229) Off east coast of Honshu
ISC IV 04 08 10 31.8–.58 37.74N–.05 142.59E–.06 31–3 3.8b 48 1-150
NIED IV 04 08 10 00 37.80N 142.50E 35 4.2W **¶600577291**
ISCJB IV 04 08 10 30.9–1.1 37.73N–.04 142.59E–.08 39–10 3.8b
JMA IV 04 08 10 31.5–.30 37.81N 142.53E 37 4.2
IDC IV 04 08 10 32.5–.64 37.72N 142.67E 35–3 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ57.00000°,λ35.00000°. NP2:ϕ_s146.00000°,δ61.00000°,λ142.00000°. $M_0$2.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.3km az=4.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=13.2km az=127.0.
(229) Off east coast of Honshu
ISC IV 04 08 38 22.3–.42 37.79N–.04 142.70E–.03 31–2 5.0b,4.4s 544 1-154
NIED IV 04 08 38 00 37.80N 142.60E 35 5.0W,4.4s **¶16406043**
JMA IV 04 08 38 21.5–.20 37.81N 142.58E 40 5.0,4.4s
BJI IV 04 08 38 21.2 37.77N 142.48E 30 5.0b,4.8b
MOS IV 04 08 38 22.9–1.1 38.19N 142.39E 27 5.1b,4.4s
IDC IV 04 08 38 22.9–2.9 37.76N 142.51E 36–23 4.5,4.5
ISCJB IV 04 08 38 22.4–.14 37.84N–.02 142.52E–.02 33 4.9b,4.5s
NEIC IV 04 08 38 24.0–.18 37.82N 142.40E 35 5.0b,4.5s
GCMT IV 04 08 38 24.0–.20 37.84N 142.64E 30–0 5.1W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ57.00000°,λ142.00000°. NP2:ϕ_s262.00000°,δ59.00000°,λ40.00000°. $M_0$4.15000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=100.1.
IDC Error ellipse: s-maj=12.9km s-min=9.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=167.4.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.8km az=143.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c76; s103,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.19±.21 $M_{\theta\theta}$-4.66±.14; $M_{\phi\phi}$0.46±.14; $M_{r\theta}$-2.20±.21; $M_{\theta\phi}$2.98±.09; $M_{\phi r}$-1.70±.20; Best double couple: NP1:ϕ_s267.00000°,δ60.00000°,λ54.00000°. NP2:ϕ_s143.00000°,δ46.00000°,λ135.00000°. Principal axes: T 5.8430,Plg58.0000°,Azm125.0000°; N 0.3520,Plg31.0000°,Azm288.0000°; P -6.2010,Plg8.0000°,Azm22.0000° $M_0$6.02200×10^{16}
(229) Off east coast of Honshu
ISC IV 04 08 42 30.2–.35 37.83N–.04 142.63E–.04 31–1 4.9b,4.3s 480 1-160
NIED IV 04 08 42 00 37.80N 142.60E 35 4.8W,4.3s **¶16406044**
BJI IV 04 08 42 27.3 37.85N 143.05E 46 4.9b,4.7b
ISCJB IV 04 08 42 28.9–.94 37.79N–.03 142.54E–.02 28–6 4.8b,4.4s
MOS IV 04 08 42 29.5–1.2 37.91N 142.58E 37 5.0b,4.4s
JMA IV 04 08 42 30.0–.20 37.81N 142.54E 38 4.8,4.4s
IDC IV 04 08 42 31.7–.47 37.80N 142.52E 40–3 4.7,4.6
GCMT IV 04 08 42 31.7–.40 37.85N 142.47E 31–0 5.0W,4.6
NEIC IV 04 08 42 31.7–.50 37.83N 142.47E 37–4 4.9b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ44.00000°,λ58.00000°. NP2:ϕ_s120.00000°,δ54.00000°,λ117.00000°. $M_0$2.06000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=174.4.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=8.8km az=96.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c44; s71,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.53±.25 $M_{\theta\theta}$-3.97±.15; $M_{\phi\phi}$-0.55±.14; $M_{r\theta}$-1.10±.17; $M_{\theta\phi}$0.45±.10; $M_{\phi r}$-1.05±.17; Best double couple: NP1:ϕ_s265.00000°,δ53.00000°,λ75.00000°. NP2:ϕ_s109.00000°,δ40.00000°,λ109.00000°. Principal axes: T 4.8920,Plg76.0000°,Azm123.0000°; N -0.7510,Plg12.0000°,Azm274.0000°; P -4.1380,Plg7.0000°,Azm5.0000° $M_0$4.51500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=138.0. Recorded [3 JMA] in Miyagi.
(229) Off east coast of Honshu
ISC IV 04 08 50 07.7–.45 37.73N–.04 142.63E–.05 30–2 4.4b 95 1-154
NIED IV 04 08 50 00 37.80N 142.50E 32 4.4W **¶16577651**
JMA IV 04 08 50 08.3–.20 37.84N 142.54E 43 4.3
IDC IV 04 08 50 09.8–.46 37.77N 142.47E 43–3 4.3,4.3
NEIC IV 04 08 50 09.0–.31 37.81N 142.53E 35 4.4b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ45.00000°,λ71.00000°. NP2:ϕ_s105.00000°,δ48.00000°,λ108.00000°. $M_0$4.25000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=10.8km az=109.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=127.0.
(228) Near east coast of eastern Honshu
ISC IV 04 08 55 49.3–1.8 37.37N–.04 141.39E–.10 28–11 22 0-57
IDC IV 04 08 55 43.9–3.1 37.63N 141.74E 0 3.5,3.4b **¶17199751**
ISCJB IV 04 08 55 47.9–1.1 37.36N–.04 141.49E–.07 21–6 3.4b,3.4b
JMA IV 04 08 55 50.4–.10 37.39N 141.33E 30–1 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=68.4km s-min=40.6km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.7km az=18.1.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 04 09 29 27.6–1.0 37.23N–.04 141.39E–.05 20–3 3.5b 32 0-64
IDC IV 04 09 29 24.7–1.3 37.24N 141.44E 0 4.2,4.2s **¶600577312**
ISCJB IV 04 09 29 26.3–1.0 37.19N–.03 141.49E–.06 23–6 4.2s,3.5b
JMA IV 04 09 29 29.1–.10 37.22N 141.30E 35–1 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=24.1km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.2km az=18.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC IV 04 09 39 07.8–.63 36.99N–.03 142.11E–.03 6–3 5.0b,4.6s 718 1-146
NIED IV 04 09 39 00 37.10N 142.00E 17 5.0W,4.6s **¶16406772**
IDC IV 04 09 39 06.8–.43 37.00N 142.16E 0 4.7,4.7
BJI IV 04 09 39 07.8 36.94N 141.93E 12 5.2b,5.0s
JMA IV 04 09 39 08.1–.30 37.07N 142.02E 29–5 5.2,5.0s
ISCJB IV 04 09 39 09.2–.12 37.08N–.02 142.04E–.02 22 4.9b,4.6s
MOS IV 04 09 39 11.4–1.2 37.04N 142.00E 40 5.1b,4.6s
GCMT IV 04 09 39 12.9–.20 37.12N 142.11E 18–1 5.1W,4.6s
NEIC IV 04 09 39 12.8–.15 37.05N 142.05E 35 5.1b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ62.00000°,λ5.00000°. NP2:ϕ_s142.00000°,δ85.00000°,λ152.00000°. $M_0$4.20000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.4km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=173.6.
MOS Error ellipse: s-maj=6.5km s-min=4.9km az=105.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c58; s108,c181; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.26±.13 $M_{\theta\theta}$-4.55±.12; $M_{\phi\phi}$3.29±.10; $M_{r\theta}$0.44±.23; $M_{\theta\phi}$1.94±.09; $M_{\phi r}$-1.79±.29; Best double couple: NP1:ϕ_s145.00000°,δ77.00000°,λ155.00000°. NP2:ϕ_s241.00000°,δ65.00000°,λ14.00000°. Principal axes: T 4.5770,Plg27.0000°,Azm101.0000°; N 0.5410,Plg62.0000°,Azm299.0000°; P -5.1180,Plg8.0000°,Azm195.0000° $M_0$4.84700×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=157.0.
(228) Near east coast of eastern Honshu
ISC IV 04 10 35 46.3–1.2 38.55N–.06 142.21E–.09 24 3.6b 22 1-73
ISCJB IV 04 10 35 42.6–.95 38.37N–.07 142.34E–.07 24 3.7b **¶17199760**
JMA IV 04 10 35 46.9–.10 38.48N 142.12E 38–2 3.7
IDC IV 04 10 35 48.3–4.4 38.50N 142.43E 62–37 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=7.7km az=160.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.5km s-min=25.3km az=93.0.
(228) Near east coast of eastern Honshu
ISC IV 04 10 37 25.5–.55 38.15N–.04 141.71E–.06 47–3 4.1b 62 0-146
NIED IV 04 10 37 00 38.20N 141.70E 50 4.1W **¶16506188**
ISCJB IV 04 10 37 25.2–.64 38.16N–.04 141.70E–.07 59–5 4.0b,2.9s
JMA IV 04 10 37 25.8–.10 38.16N 141.69E 50–1 4.2,2.9s
IDC IV 04 10 37 28.2–.77 38.14N 141.62E 72–5 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ26.00000°,λ99.00000°. NP2:ϕ_s22.00000°,δ65.00000°,λ86.00000°. $M_0$1.36000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=17.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=109.0.
(162) South Island
WEL IV 04 11 21 52.0–.12 43.62S 172.74E 8–0 3.3L ¶16408810
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(309) Nepal-India border region
ISC IV 04 11 31 41.1–.30 29.63N–.03 80.73E–.02 17–1 5.6b,5.1s 1238 0-155
BJI IV 04 11 31 39.0 29.75N 80.85E 10 5.5s,5.4b **¶601129074**
ISCJB IV 04 11 31 40.2–.53 29.73N–.02 80.79E–.01 17–3 5.6b,5.1s

NDI IV 04 11 31 40.9–2.6 29.59N 80.88E 9–7 5.6b,5.5L
MOS IV 04 11 31 40.7–.96 29.71N 80.80E 22 5.8b,5.1s
DMN IV 04 11 31 41.1–.32 29.89N 80.63E 10 6.0L,5.1s
IDC IV 04 11 31 42.3–1.5 29.63N 80.82E 24–8 5.3,5.2L
GCMT IV 04 11 31 42.3–.10 29.43N 80.71E 19–0 5.4W,5.2L
NEIC IV 04 11 31 43.0–1.1 29.70N 80.75E 26–7 5.6b,5.3W
ISC Event type ke.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.6km az=22.7.
NDI Error ellipse: s-maj=5.5km s-min=6.6km az=-1.0.
MOS Error ellipse: s-maj=5.5km s-min=3.3km az=115.7.
DMN Event type ke. Error ellipse: s-maj=13.3km s-min=6.2km az=32.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=9.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s100,c151; s118,c240;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.07±.02 $M_{\theta\theta}$-0.97±.02; $M_{\phi\phi}$-0.09±.02; $M_{r\theta}$1.02±.04; $M_{\theta\phi}$0.59±.01; $M_{\phi r}$0.09±.04; Best double couple: NP1:ϕ_s96.00000°,δ67.00000°,λ70.00000°. NP2:ϕ_s318.00000°,δ30.00000°,λ128.00000°. Principal axes: T 1.5540,Plg63.0000°,Azm334.0000°; N 0.0210,Plg18.0000°,Azm104.0000° ; P -1.5700,Plg19.0000°,Azm201.0000° $M_0$1.56200×10^{17}
NEIC Event type de. Error ellipse: s-maj=3.7km s-min=2.3km az=211.0. Slight damage in western Nepal and in parts of Uttarakhand and Uttar Pradesh, India. Felt at Amargadhi, Nepalganj and as far as Gorkha. Nepal. Felt [IV] at Dehra Dun and Mohali; [III] at Chandigarh, Delhi, Ghaziabad, Gurgaon, Lucknow, New Delhi, Noida, Roorkee and Shimla; [II] at Alipur, India. Felt widely in northern India as far as Ghazipur, Jabalpur and Jaipur. Also felt at Lahore, Pakistan. Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ46.00000°,λ69.00000°. NP2:ϕ_s307.00000°,δ48.00000°,λ111.00000°. Principal axes: T 1.0400,Plg75.0000°,Azm290.0000°; N -0.0700,Plg15.0000°,Azm113.0000° ; P -0.9700,Plg1.0000°,Azm23.0000°

(227) Eastern Honshu

ISC	**IV**	**04 11 46 24.4–.78**	**36.09N–.04**	**140.02E–.05**	**52–6**	**4.1s,4.1b**	**59**	**0-117**
NIED	IV	04 11 46 00	36.20N	140.00E	41	4.0W,4.1b		**¶16408811**
ISCJB	IV	04 11 46 23.5–.39	36.10N–.03	140.05E–.05	60–3	4.1b,4.1b		
NEIC	IV	04 11 46 23.8–.84	36.06N	139.98E	48–8	4.3b,4.1b		
JMA	IV	04 11 46 24.9–.10	36.14N	140.01E	49–1	4.1,4.1b		
IDC	IV	04 11 46 24.5–1.8	36.08N	139.94E	52–16	4.1,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ25.00000°,λ-177.00000°. NP2:ϕ_s206.00000°,δ89.00000°,λ-65.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.9km az=5.0.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.4km az=60.0. Recorded [3 JMA] in Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ78.00000°,λ80.00000°. NP2: ϕ_s243.00000°,δ15.00000°,λ128.00000°. Principal axes: T Plg56.0000°,Azm282.0000° ; N Plg9.0000°,Azm26.0000°; P Plg32.0000°,Azm122.0000°
IDC Error ellipse: s-maj=17.6km s-min=9.7km az=74.0.

(1) Central Alaska

ISC	**IV**	**04 12 26 49.0–.80**	**62.93N–.03**	**143.64W–.02**	**15–5**		**91**	**0-13**
ISCJB	IV	04 12 26 48.2–.49	62.93N–.02	143.43W–.04	9–4			**¶16577656**
NEIC	IV	04 12 26 49.4	62.92N	143.61W	11	3.2L		
PGC	IV	04 12 26 49.5–.02	62.84N	143.66W	5	3.4L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=31.6.
NEIC Event type fe. Felt at Tok. After AEIC.
PGC Event type ke. 236km Ene of Valdez, Ak Central Alaska.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 12 56 59.6–1.5**	**37.07N–.04**	**141.3E–.10**	**42–11**	**3.4b**	**22**	**0-61**
IDC	IV	04 12 56 52.5–2.2	37.22N	141.62E	0	3.6,3.5		**¶17199772**
ISCJB	IV	04 12 56 58.8–.96	37.06N–.04	141.3E–.10	51–6	3.4b,3.5		
JMA	IV	04 12 57 00.6–.10	37.11N	141.13E	50–1	3.6,3.5		
NIED	IV	04 12 57 00	37.10N	141.10E	32	3.5W,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=25.7km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=6.9km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ40.00000°,λ167.00000°. NP2:ϕ_s334.00000°,δ82.00000°,λ51.00000°. $M_0$1.99000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 13 11 29.3–.60**	**39.25N–.04**	**142.81E–.04**	**27–3**	**4.8b,4.5s**	**351**	**1-145**
NIED	IV	04 13 11 00	39.10N	143.00E	20	4.8W,4.5s		**¶16455842**
JMA	IV	04 13 11 27.0–.10	39.13N	142.96E	21–2	4.8,4.5s		
ISCJB	IV	04 13 11 28.3–.82	39.21N–.03	142.87E–.03	31–5	4.8b,4.5s		
MOS	IV	04 13 11 28.5–.92	39.28N	142.85E	30	5.1b,4.2s		
BJI	IV	04 13 11 29.9	39.20N	142.50E	35	5.0b,4.9b		
NEIC	IV	04 13 11 31.2–.31	39.24N	142.75E	40–2	4.9b,4.9b		
IDC	IV	04 13 11 31.6–1.8	39.15N	142.86E	45–16	4.5,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ15.00000°,λ56.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ99.00000°. $M_0$2.02000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=143.1.
MOS Error ellipse: s-maj=7.6km s-min=4.6km az=101.5.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=144.0.
IDC Error ellipse: s-maj=12.9km s-min=10.9km az=123.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 13 17 46.0–1.1**	**36.80N–.04**	**140.94E–.07**	**26–7**	**3.9b**	**36**	**0-147**
NIED	IV	04 13 17 00	36.80N	141.10E	11	3.7W		**¶17199774**
ISCJB	IV	04 13 17 43.8–.98	36.74N–.04	141.12E–.07	24–6	3.8b		
JMA	IV	04 13 17 44.6	36.75N	141.06E	28–1	3.9		
IDC	IV	04 13 17 48.5–2.0	36.74N	140.97E	47–21	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ45.00000°,λ-106.00000°. NP2:ϕ_s19.00000°,δ47.00000°,λ-75.00000°. $M_0$4.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.3km az=22.1.
JMA Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=12.4km az=88.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**04 15 36 24.5**	**36.67N**	**140.61E**	**4–1**	**2.5**		**¶600577466**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 15 47 05.5–.65**	**37.58N–.04**	**141.59E–.06**	**51–6**	**4.2b**	**58**	**1-84**
NIED	IV	04 15 47 00	37.60N	141.50E	50	4.0W		**¶16506191**
ISCJB	IV	04 15 47 03.9–.65	37.55N–.03	141.60E–.07	55–5	4.2b,3.2s		
JMA	IV	04 15 47 05.6–.10	37.60N	141.49E	47–2	4.0,3.2s		
NEIC	IV	04 15 47 06.3–.54	37.53N	141.60E	61–5	4.6b,3.2s		
IDC	IV	04 15 47 06.0–.62	37.57N	141.53E	55–6	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ19.00000°,λ98.00000°. NP2:ϕ_s19.00000°,δ71.00000°,λ87.00000°. $M_0$1.31000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=5.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=107.0.
IDC Error ellipse: s-maj=15.8km s-min=9.6km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 17 27 04.9–2.5**	**39.21N–.07**	**142.4E–.10**	**33–13**		**15**	**1-63**
NIED	IV	04 17 27 00	39.20N	142.40E	53	4.4W		**¶600577541**
ISCJB	IV	04 17 27 03.5–1.5	39.16N–.06	142.52E–.09	31–7	3.5b		
JMA	IV	04 17 27 05.1–.10	39.21N	142.45E	32–1	3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ32.00000°,λ-26.00000°. NP2:ϕ_s99.00000°,δ76.00000°,λ-120.00000°. $M_0$4.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=9.6km az=177.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 17 27 39.4–1.3**	**36.72N–.06**	**140.59E–.09**	**10**		**8**	**0-2**
ISCJB	IV	04 17 27 39.1–1.0	36.72N–.06	140.62E–.09	10			**¶17199792**
JMA	IV	04 17 27 39.6	36.73N	140.59E	6–1	2.2		
IDC	IV	04 17 27 39.6–4.8	36.65N	140.20E	176–42	3.4,3.2		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.9km az=34.0.
JMA Event type fe.
IDC Error ellipse: s-maj=86.9km s-min=33.8km az=90.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**04 17 45 03.4**	**36.82N**	**140.53E**	**5–1**	**3.4**		**¶16455843**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ75.00000°,λ-78.00000°. NP2:ϕ_s347.00000°,δ19.00000°,λ-127.00000°. Principal axes: T Plg29.0000°,Azm287.0000°; N Plg11.0000°,Azm23.0000°; P Plg58.0000° ,Azm132.0000°

(13) Kodiak Island region

ISC	**IV**	**04 18 20 46.4–.46**	**58.98N–.03**	**153.17W–.03**	**71–3**	**4.6b**	**329**	**0-149**
BJI	IV	04 18 20 43.8	59.00N	153.30W	70	5.0s,4.9b		**¶16407607**
MOS	IV	04 18 20 45.3–.83	59.03N	153.40W	72	4.9b,4.9b		
ISCJB	IV	04 18 20 46.1–.19	58.98N–.02	153.14W–.04	83–1	4.6b,4.9b		
IDC	IV	04 18 20 47.8–1.9	59.19N	153.35W	75–15	4.5,4.4		
NEIC	IV	04 18 20 48.3	58.92N	153.13W	69	4.6b,4.5L		

ISC Event type fe.
MOS Error ellipse: s-maj=12.5km s-min=5.0km az=84.1.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.5km az=143.7.
IDC Error ellipse: s-maj=16.1km s-min=10.5km az=178.0.
NEIC Event type fe. Felt [II] at Homer. Also felt at Anchor Point and Ninilchik. After AEIC.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 18 46 36.5–1.5**	**35.96N–.06**	**141.1E–.10**	**21–3**	**4.1s,3.6b**	**13**	**0-80**
NIED	IV	04 18 46 00	36.00N	141.20E	11	3.5W,3.6b		**¶17199803**
ISCJB	IV	04 18 46 32.7–1.8	35.97N–.07	141.35E–.09	9–10	4.0s,3.6b		
JMA	IV	04 18 46 35.5–.10	35.96N	141.16E	25–2	3.9,3.6b		
IDC	IV	04 18 46 36.7–3.7	35.43N	140.53E	0	3.7,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ55.00000°,λ137.00000°. NP2:ϕ_s267.00000°,δ56.00000°,λ44.00000°. $M_0$2.22000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=10.1km az=135.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=130.4km s-min=24.3km az=61.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 19 14 34.7–2.2**	**38.76N–.06**	**142.0E–.10**	**31–14**	**3.9b**	**25**	**0-70**
NIED	IV	04 19 14 00	38.80N	142.00E	38	3.7W		**¶16408814**
ISCJB	IV	04 19 14 34.6–1.1	38.77N–.05	142.0E–.10	48–8	3.8b		
JMA	IV	04 19 14 35.1–.10	38.81N	142.00E	41–1	3.8		
IDC	IV	04 19 14 38.8–3.3	38.70N	141.91E	70–29	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ24.00000°,λ-47.00000°. NP2:ϕ_s233.00000°,δ73.00000°,λ-107.00000°. $M_0$3.48000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=7.7km az=4.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.7km s-min=17.0km az=86.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 19 30 25.4–.65**	**35.74N–.03**	**140.07E–.04**	**71–6**	**4.2b**	**77**	**0-117**
NIED	IV	04 19 30 00	35.80N	140.20E	62	4.3W		**¶16455845**
NEIC	IV	04 19 30 23.9–.77	35.64N	140.10E	61–6	4.4b		
ISCJB	IV	04 19 30 24.2–.32	35.71N–.03	140.08E–.05	77–2	4.0b		
JMA	IV	04 19 30 24.7–.20	35.81N	140.12E	67–2	3.9		
IDC	IV	04 19 30 25.6–1.2	35.64N	140.02E	73–12	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ27.00000°,λ85.00000°. NP2:ϕ_s4.00000°,δ63.00000°,λ92.00000°. $M_0$3.24000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=5.9km az=82.0. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama and Tokyo.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=161.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ68.00000°,λ87.00000°. NP2: ϕ_s190.00000°,δ22.00000°,λ98.00000°. Principal axes: T Plg67.0000°,Azm266.0000° ; N Plg3.0000°,Azm3.0000°; P Plg23.0000°,Azm94.0000°
IDC Error ellipse: s-maj=14.9km s-min=8.5km az=79.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 19 34 13.5–1.5**	**37.77N–.05**	**141.7E–.10**	**55–12**	**3.9b**	**29**	**1-74**
NIED	IV	04 19 34 00	37.80N	141.60E	56	4.0W		**¶17199806**
IDC	IV	04 19 34 03.9–1.6	37.89N	142.52E	0	3.9,3.9b		
ISCJB	IV	04 19 34 12.5–.91	37.77N–.04	141.7E–.10	63–7	3.9b,3.9b		
JMA	IV	04 19 34 13.5	37.79N	141.62E	54–1	3.9,3.9b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ37.00000°,λ84.00000°. NP2:ϕ_s5.00000°,δ54.00000°,λ94.00000°. $M_0$1.17000×10^{15}
IDC Error ellipse: s-maj=43.2km s-min=24.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=5.8km az=12.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 19 50 01.8–.93**	**36.71N–.03**	**140.64E–.06**	**11–6**	**3.8b**	**38**	**0-91**
ISCJB	IV	04 19 50 00.9–.72	36.66N–.03	140.76E–.06	15–5	3.8b		**¶16577660**
NIED	IV	04 19 50 00	36.70N	140.60E	5	3.8W		
NEIC	IV	04 19 50 01.2–5.2	36.71N	140.66E	5–33	4.4b		
JMA	IV	04 19 50 02.3	36.72N	140.63E	4–1	3.8		
IDC	IV	04 19 50 05.2–5.5	36.67N	140.68E	33–44	4.2L,3.8		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.4km az=20.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ29.00000°,λ-77.00000°. NP2:ϕ_s144.00000°,δ62.00000°,λ-97.00000°. $M_0$5.45000×10^{14}
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.6km az=66.0.
JMA Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=17.0km az=96.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**04 19 52 21.9**	**36.71N**	**140.63E**	**6–1**	**2.5**		**¶16506193**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 20 43 56.3–.72**	**36.29N–.04**	**140.98E–.05**	**25–4**	**4.5b,3.6s**	**140**	**0-147**
NIED	IV	04 20 43 00	36.30N	140.90E	35	4.4W,3.6s		**¶16408816**
IDC	IV	04 20 43 52.7–.51	36.29N	140.91E	0	4.4,4.3		
MOS	IV	04 20 43 55.2–1.1	36.32N	141.03E	30	4.8b,4.3		
ISCJB	IV	04 20 43 55.2–.73	36.29N–.03	141.04E–.04	31–4	4.4b,3.7s		
NEIC	IV	04 20 43 56.9–1.9	36.28N	140.90E	28–13	4.6b,3.7s		
BJI	IV	04 20 43 56.3	36.09N	140.83E	40	4.8b,4.7b		
JMA	IV	04 20 43 57.0–.10	36.30N	140.92E	41–1	4.3,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ7.00000°,λ46.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ95.00000°. $M_0$4.70000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=11.6km az=107.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=108.9.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=29.7.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=6.0km az=81.0. Recorded [4 JMA] in Ibaraki.
JMA Event type fe.

(254) Panay

MAN	**IV**	**04 20 54 21**	**11.27N**	**122.64E**	**10**	**4.2b,3.1L**		**¶601668974**

MAN Event type fe. INTENSITY IV - DUMARAO CAPIZ; INTENSITY III - BINGAWAN ILOILO; INTENSITY II - CUARTERO DUMALAG MAMBUSAO SIGMA IVISAN SAPIAN CAPIZ; ROXAS CITY.

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 21 36 59.5–1.1**	**36.77N–.04**	**140.61E–.04**	**8–7**	**4.2b**	**56**	**0-91**
IDC	IV	04 21 36 58.1–.77	36.77N	140.67E	0	4.0,3.8		**¶16577662**
ISCJB	IV	04 21 36 59.3–.61	36.69N–.03	140.74E–.05	20–3	4.1b,2.5s		
NEIC	IV	04 21 36 59.6–3.9	36.82N	140.69E	9–24	4.7b,2.5s		
NIED	IV	04 21 37 00	36.70N	140.60E	5	3.8W,2.5s		
JMA	IV	04 21 37 00.5	36.72N	140.63E	5–1	3.8,2.5s		

ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=14.0km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.0km az=34.3.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.5km az=87.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ26.00000°,λ-74.00000°. NP2:ϕ_s145.00000°,δ66.00000°,λ-97.00000°. $M_0$5.85000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s133.00000°,δ55.00000°,λ-100.00000°. NP2:ϕ_s330.00000°,δ36.00000°,λ-75.00000°. Principal axes: T Plg10.0000°,Azm230.0000°; N Plg9.0000°,Azm138.0000°; P Plg77.0000°

,Azm8.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**04 21 52 56.3–.56**	**38.27N–.04**	**141.91E–.05**	**51–5**	**4.3b,3.4s**	**114**	**0-146**
NIED	IV	04 21 52 00	38.30N	141.90E	47	4.2W,3.4s		**¶16506194**
BJI	IV	04 21 52 44.2	37.64N	142.55E	20	4.8b,4.5s		
ISCJB	IV	04 21 52 54.5–.58	38.25N–.03	141.94E–.06	51–4	4.3b,3.3s		
NEIC	IV	04 21 52 55.9–.67	38.25N	141.87E	48–6	4.7b,3.3s		
JMA	IV	04 21 52 55.9–.10	38.31N	141.86E	49–1	4.1,3.3s		
IDC	IV	04 21 52 56.6–.47	38.29N	141.85E	53–4	4.1,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ22.00000°,λ98.00000°. NP2:ϕ_s13.00000°,δ68.00000°,λ87.00000°. $M_0$2.03000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.3km az=21.3.

NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=117.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=14.0km s-min=9.0km az=108.0.

(284) South of Bali

ISC	**IV**	**04 23 11 04.2–.70**	**9.42S–.06**	**114.00E–.04**	**69–6**	**4.5b**	**103**	**1-146**
DJA	IV	04 23 11 00.4–.80	10S–4.0	114E–2.0	16–8	5.3b,4.8		**¶16577665**
ISCJB	IV	04 23 11 03.5–.56	9.34S–.06	114.00E–.03	77–4	4.3b,4.8		
NEIC	IV	04 23 11 04.0–.30	9.25S	114.01E	61	4.6b,4.8		
IDC	IV	04 23 11 04.3–1.0	9.22S	114.13E	63–8	4.4,4.2		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=4.4km az=15.4.

NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=4.5km az=210.0. Felt [II] at Nusadua.

IDC Error ellipse: s-maj=18.9km s-min=10.6km az=48.0.

(160) Off east coast of North Island

WEL	**IV**	**04 23 41 49.4–.33**	**36.54S**	**176.57E**	**205–6**	**4.3L**		
NEIC	IV	04 23 41 49.2	36.53S	176.56E	206	4.3		**¶16408822**

WEL Event type fe. Error ellipse: s-maj=6.0km s-min=5.7km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 3.

NEIC Event type se. After WEL.

(160) Off east coast of North Island

WEL	**IV**	**05 00 09 49.1–.31**	**39.25S**	**179.45E**	**33**	**3.5L**		
								¶601003512

WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=90.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.

(1) Central Alaska

ISC	**IV**	**05 00 26 43.1–.43**	**62.50N–.03**	**148.31W–.04**	**59–3**	**4.0b**	**140**	**1-146**
ISCJB	IV	05 00 26 41.8–.18	62.48N–.02	148.25W–.04	68–3	3.8b		**¶16424620**
NEIC	IV	05 00 26 43.0	62.47N	148.23W	40	4.2b,4.1L		
IDC	IV	05 00 26 43.1–.52	62.58N	148.58W	58–3	3.8,3.8		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.9km az=176.3.

NEIC Event type fe. Felt [II] at Eagle River. Also felt at Anchorage, Chugiak, Palmer and Talkeetna. After AEIC.

IDC Error ellipse: s-maj=10.8km s-min=9.6km az=91.0.

(243) Taiwan region

ISC	**IV**	**05 00 43 13.2–.66**	**24.55N–.03**	**122.85E–.02**	**87–5**	**3.7b**	**207**	**0-82**
ISCJB	IV	05 00 43 12.9–.19	24.60N–.02	122.86E–.01	92–2	4.0b		**¶16415540**
NEIC	IV	05 00 43 13.5–.46	24.68N	122.85E	84–5	4.7b		
JMA	IV	05 00 43 13.6–.10	24.50N	122.82E	86–1	3.5		
TAP	IV	05 00 43 14.5	24.54N	122.83E	80–0	4.8L		
IDC	IV	05 00 43 14.7–3.4	24.75N	122.87E	91–33	4.0s,4.0		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=1.8km az=164.5.

NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=7.0km az=153.0. Recorded [1 TAP] in Hualien, Taichung, Taitung and Yilan.

JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

TAP B.

IDC Error ellipse: s-maj=22.8km s-min=17.1km az=88.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 01 29 11.2–.52**	**39.68N–.04**	**142.11E–.05**	**49–3**	**4.7b,4.2s**	**288**	**0-149**
NIED	IV	05 01 29 00	39.70N	142.00E	50	4.8W,4.2s		**¶16408834**
ISCJB	IV	05 01 29 10.6–.36	39.67N–.03	142.08E–.04	56–2	4.6b,4.2s		
JMA	IV	05 01 29 10.8	39.67N	142.14E	48–1	4.7,4.2s		
MOS	IV	05 01 29 11.8–.95	39.86N	141.77E	54	4.9b,4.3s		
IDC	IV	05 01 29 13.7–1.9	39.63N	142.04E	71–17	4.4,4.2		
NEIC	IV	05 01 29 14.0–.67	39.71N	142.04E	74–5	4.8b,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ20.00000°,λ57.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ101.00000°. $M_0$1.71000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.5km az=32.0.

JMA Event type fe.

MOS Error ellipse: s-maj=8.2km s-min=5.1km az=108.0.

IDC Error ellipse: s-maj=13.9km s-min=10.5km az=100.0.

NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.4km az=128.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 02 38 17.7–1.6**	**36.41N–.09**	**140.69E–.09**	**52–8**	**3.3b**	**22**	**0-44**
ISCJB	IV	05 02 38 17.3–1.1	36.42N–.07	140.67E–.07	57–5	3.4b		**¶17199835**
JMA	IV	05 02 38 18.3–.10	36.43N	140.60E	53–1	3.1		
IDC	IV	05 02 38 18.7–7.2	36.30N	140.67E	67–57	3.6,3.3		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=7.2km az=140.9.

JMA Event type fe.

IDC Error ellipse: s-maj=125.6km s-min=53.6km az=10.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 02 57 14.0–1.1**	**38.21N–.05**	**141.75E–.09**	**54–9**	**4.0b,3.4s**	**45**	**0-146**
NIED	IV	05 02 57 00	38.20N	141.70E	59	4.3W,3.4s		**¶16506203**
ISCJB	IV	05 02 57 13.5–.70	38.19N–.04	141.73E–.08	64–5	3.9b,3.4s		
JMA	IV	05 02 57 14.3–.10	38.19N	141.70E	58–1	4.1,3.4s		
IDC	IV	05 02 57 17.9–2.4	38.17N	141.60E	90–21	3.9,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ46.00000°,λ48.00000°. NP2:ϕ_s39.00000°,δ57.00000°,λ125.00000°. $M_0$2.79000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.8km az=18.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=17.2km s-min=13.5km az=110.0.

(259) Mindanao

ISC	**IV**	**05 03 42 48.4–.72**	**7.89N–.03**	**125.00E–.04**	**14**	**3.9b,3.0s**	**22**	**1-96**
MAN	IV	05 03 42 47	7.97N	124.93E	1	4.7b,3.5L		**¶17199842**
ISCJB	IV	05 03 42 48.5–.42	7.89N–.03	125.03E–.06	14	3.8b,3.1s		
IDC	IV	05 03 42 52.6–2.5	7.82N	125.13E	33–18	3.9,3.9		

ISC Event type fe.

MAN Event type fe. INTENSITY III - VALENCIA BUKIDNON; INTENSITY II - MALAYBALAY BUKIDNON.

ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.6km az=173.3.

IDC Error ellipse: s-maj=48.3km s-min=15.8km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 04 25 27.7–.56**	**38.86N–.04**	**142.64E–.04**	**41–4**	**4.7b,3.8s**	**300**	**1-155**
NIED	IV	05 04 25 00	38.90N	142.60E	47	4.7W,3.8s		**¶16409321**
BJI	IV	05 04 25 25.2	38.74N	142.72E	40	4.9b,4.6b		
MOS	IV	05 04 25 27.7–.83	39.09N	142.44E	40	4.9b,4.6b		
JMA	IV	05 04 25 27.7–.10	38.90N	142.55E	42–2	4.6,4.6b		
ISCJB	IV	05 04 25 28.3–.45	38.93N–.03	142.43E–.04	51–3	4.6b,3.8s		
NEIC	IV	05 04 25 29.8–.55	38.89N	142.40E	52–5	4.7b,3.8s		
IDC	IV	05 04 25 31.9–2.4	38.86N	142.42E	75–22	4.4,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ45.00000°,λ106.00000°. NP2:ϕ_s248.00000°,δ47.00000°,λ75.00000°. $M_0$1.19000×10^{16}

MOS Error ellipse: s-maj=8.2km s-min=5.0km az=93.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=137.7.

NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.5km az=142.0. Recorded [3 JMA] in Miyagi.

IDC Error ellipse: s-maj=13.5km s-min=10.6km az=121.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 04 32 28.9–.80**	**36.13N–.05**	**140.03E–.04**	**49–6**	**3.9b**	**47**	**0-117**
NIED	IV	05 04 32 00	36.20N	140.00E	44	4.0W		**¶602567231**
ISCJB	IV	05 04 32 28.4–.45	36.14N–.04	140.04E–.05	59–3	3.9b		
JMA	IV	05 04 32 29.3–.10	36.13N	140.03E	49–1	3.8		
NEIC	IV	05 04 32 30.3–2.2	36.17N	139.88E	58–13	4.1b		
IDC	IV	05 04 32 31.1–1.9	36.12N	139.92E	70–19	3.9,3.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ77.00000°,λ-177.00000°. NP2:ϕ_s211.00000°,δ87.00000°,λ-13.00000°. $M_0$1.30000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.8km az=138.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s42.00000°,δ75.00000°,λ89.00000°. NP2: ϕ_s226.00000°,δ15.00000°,λ93.00000°. Principal axes: T Plg60.0000°,Azm311.0000° ; N Plg1.0000°,Azm43.0000°; P Plg30.0000°,Azm133.0000°

NEIC Event type fe. Error ellipse: s-maj=28.6km s-min=11.1km az=165.0. Recorded [3 JMA] in Ibaraki.

IDC Error ellipse: s-maj=29.0km s-min=19.2km az=19.0.

(277) Jawa

ISC	**IV**	**05 04 34 44.1–.56**	**7.13S–.03**	**106.06E–.03**	**64–4**	**5.2b**	**730**	**1-176**
MOS	IV	05 04 34 39.4–1.1	6.81S	106.24E	33	5.4b		**¶16408849**
BJI	IV	05 04 34 41.0	7.00S	106.20E	43	5.0b,4.9b		
IDC	IV	05 04 34 42.0–1.3	6.89S	106.23E	40–10	5.0,4.8		
DJA	IV	05 04 34 43.4–.20	7S–2.0	106E–1.0	50–3	5.6b,5.6		
ISCJB	IV	05 04 34 44.9–.32	7.02S–.03	106.15E–.02	84–2	5.0b,5.6		
GCMT	IV	05 04 34 46.3–.20	7.35S	106.01E	55–1	5.2W,5.6		
KLM	IV	05 04 34 46.6	7.19S	106.00E	101	5.8s,5.3b		
NEIC	IV	05 04 34 46.3–.67	6.93S	106.22E	83–5	5.2b,5.3b		

ISC Event type fe.

MOS Error ellipse: s-maj=10.8km s-min=5.1km az=116.1.

IDC Error ellipse: s-maj=11.4km s-min=8.8km az=74.0.

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.6km az=32.9.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c96; s82,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.70±.24 $M_{\theta\theta}$-4.24±.19; $M_{\phi\phi}$-1.46±.23; $M_{r\theta}$2.68±.15; $M_{\theta\phi}$4.56±.14; $M_{\phi r}$-0.75±.17; Best double couple: NP1:ϕ_s115.00000°,δ57.00000° ,λ76.00000°. NP2:ϕ_s320.00000°,δ36.00000°,λ111.00000°. Principal axes: T 6.4010,Plg74.0000°,Azm347.0000°; N 1.7100,Plg12.0000°,Azm123.0000° ; P -8.1110,Plg11.0000°,Azm215.0000° $M_0$7.25600×10^{16}

NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=3.7km az=223.0. Felt [III] at Banten, Cianjur and Sukabumi; [II] at Bogor and Jakarta. Also felt at Bandung, Cilegon, Curug, Karawang, Palabuhanratu, Serpong and Tangerang.

(2) Southern Alaska

ISC	**IV**	**05 04 41 55.4–.67**	**60.11N–.03**	**152.75W–.04**	**101–5**	**3.7b**	**128**	**0-148**
ISCJB	IV	05 04 41 53.8–.21	60.10N–.02	152.69W–.05	108–2	3.7b		**¶16506221**
NEIC	IV	05 04 41 56.1	60.08N	152.73W	95	3.6		
IDC	IV	05 04 41 57.6–3.7	60.34N	152.77W	114–32	3.9,3.7		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.7km az=42.8.

NEIC Event type fe. Felt [II] at Homer. After AEIC.

IDC Error ellipse: s-maj=28.6km s-min=12.0km az=39.0.

(259) Mindanao

MAN	**IV**	**05 05 25 55**	**7.86N**	**124.99E**	**1**	**4.6b,3.5L**		
								¶601668977

MAN Event type fe. INTENSITY III - VALENCIA AND MALAYBALAY BUKIDNON.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 06 34 12.3–.74**	**37.02N–.07**	**141.10E–.09**	**35**	**3.7b**	**23**	**0-90**
NIED	IV	05 06 34 00	37.00N	141.20E	23	3.8W		**¶17199859**
ISCJB	IV	05 06 34 10.7–.55	37.00N–.06	141.14E–.07	35	3.6b		
JMA	IV	05 06 34 10.1–.10	37.00N	141.17E	32–1	4.0		
IDC	IV	05 06 34 14.5–3.1	37.01N	141.07E	52–28	3.7,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ64.00000°,λ-23.00000°. NP2:ϕ_s199.00000°,δ69.00000°,λ-152.00000°. $M_0$5.87000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.0km az=146.1.

JMA Event type fe.

IDC Error ellipse: s-maj=20.0km s-min=16.9km az=113.0.

(457) Eastern Idaho

ISC	**IV**	**05 07 05 27.0–.37**	**44.66N–.02**	**112.03W–.02**	**10**	**4.5b,3.7s**	**280**	**1-123**
ISCJB	IV	05 07 05 25.7–.12	44.71N–.01	112.05W–.02	10	4.3b,3.8s		**¶16501961**
BJI	IV	05 07 05 25.0	44.60N	112.10W	12	4.9b,4.8b		
IDC	IV	05 07 05 25.5–.44	44.63N	112.07W	0	4.3,4.1		
NEIC	IV	05 07 05 26.0	44.61N	112.09W	12	4.5b,4.4L		
GCMT	IV	05 07 05 26.0–.50	44.69N	112.05W	12	4.6W,4.4L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=39.5.

IDC Error ellipse: s-maj=9.4km s-min=6.0km az=51.0.

NEIC Event type fe. Felt [III] at Lima and [II] at Bozeman, Butte, Dillon and Helena. Also felt at Anaconda, Corvallis, Hamilton, Missoula, Stevensville, Sula, Twin Bridges, West Yellowstone and Whitehall. Felt [II] at Ashton, Dubois, Rexburg and Saint Anthony, Idaho. Also felt at Challis, Idaho Falls, Ketchum, Monteview, North Fork, Spencer, Swan Valley and Victor. Felt at Brigham City, Utah. After BUT. Moment Tensor Solution. s69 Moment tensor: Scale 10^{15} Nm; M_{rr}-0.38 $M_{\theta\theta}$3.99 $M_{\phi\phi}$-3.61 $M_{r\theta}$0.70 $M_{\theta\phi}$2.03 $M_{\phi r}$-1.05 Best double couple: NP1: ϕ_s300.00000°,δ82.00000°,λ-15.00000°. NP2:ϕ_s32.00000°,δ75.00000°,λ-172.00000°. Principal axes: T 4.5400,Plg5.0000°,Azm347.0000°; N -0.0700,Plg73.0000°,Azm94.0000° ; P -4.4700,Plg16.0000°,Azm255.0000° $M_0$4.50000×10^{15}

GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s129,c188;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.17±.04 $M_{\theta\theta}$0.78±.04; $M_{\phi\phi}$-0.61±.04; $M_{r\theta}$0.04±.13; $M_{\theta\phi}$0.31±.03; $M_{\phi r}$-0.37±.12; Best double couple: NP1:ϕ_s36.00000°,δ73.00000°,λ-158.00000°. NP2: ϕ_s299.00000°,δ69.00000°,λ-19.00000°. Principal axes: T 0.8510,Plg3.0000°,Azm167.0000° ; N 0.0210,Plg62.0000°,Azm72.0000°; P -0.8730,Plg28.0000°,Azm259.0000° $M_0$0.86200×10^{16}

(546) Austria

ISC	**IV**	**05 07 14 26.3–1.1**	**47.66N–.01**	**13.77E–.02**	**4–9**		**153**	**0-4**
VIE	IV	05 07 14 25.8–.41	47.66N	13.71E	1–8	3.1L,2.7b		**¶16413452**
IPEC	IV	05 07 14 26.1–.07	47.61N	13.76E	2–0	3.1L,2.7b		
CSEM	IV	05 07 14 26.4–.14	47.66N	13.77E	2	3.5L,2.7b		
BGR	IV	05 07 14 28.3–.21	47.67N	13.73E	10	3.2L,2.7b		
PRU	IV	05 07 14 29.4	47.80N	13.80E	0	3.2L,2.7b		

ISC Event type ke.

VIE Error ellipse: s-maj=5.0km s-min=3.0km az=169.0. felt 4 ems98 at Altaussee / Styria.

IPEC Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=117.0.

CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=127.0.

BGR Event type fe. Error ellipse: s-maj=3.3km s-min=3.3km az=66.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**05 09 07 37.0**	**36.81N**	**140.57E**	**7–1**	**2.9**		
								¶602567224

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 09 08 50.0–.95**	**36.77N–.04**	**140.53E–.04**	**13–6**	**4.4b,4.2s**	**95**	**0-147**
NIED	IV	05 09 08 00	36.80N	140.60E	5	4.3W,4.2s		**¶602567233**
ISCJB	IV	05 09 08 49.2–.55	36.75N–.03	140.48E–.04	17–4	4.3b,4.2s		
JMA	IV	05 09 08 49.2	36.81N	140.57E	7–1	4.4,4.2s		
IDC	IV	05 09 08 52.7–3.0	36.79N	140.37E	33–23	4.2,4.2s		
NEIC	IV	05 09 08 53.7–.61	36.76N	140.41E	38–6	4.5b,4.2s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ24.00000°,λ-134.00000°. NP2:ϕ_s178.00000°,δ73.00000°,λ-73.00000°. $M_0$3.43000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.7km az=148.6.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s182.00000°,δ60.00000°,λ-74.00000°. NP2:ϕ_s331.00000°,δ33.00000°,λ-116.00000°. Principal axes: T Plg14.0000°,Azm260.0000°; N Plg14.0000°,Azm354.0000°; P Plg70.0000° ,Azm127.0000°

IDC Error ellipse: s-maj=14.7km s-min=12.7km az=111.0.

NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.6km az=133.0. Felt at Narita. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 09 30 02.6–1.0**	**36.79N–.04**	**140.55E–.07**	**8–8**	**3.5b**	**17**	**0-91**
IDC	IV	05 09 30 01.2–1.3	36.74N	140.60E	0	4.0,3.5b		**¶17199875**
ISCJB	IV	05 09 30 02.2–.64	36.76N–.04	140.63E–.07	13–4	3.5b,3.5b		
JMA	IV	05 09 30 02.7	36.78N	140.57E	7–1	3.4,3.5b		

ISC Event type ke.

IDC Error ellipse: s-maj=34.3km s-min=14.4km az=169.0.

ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=4.9km az=31.2.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s327.00000°,δ50.00000°,λ-103.00000°. NP2:ϕ_s167.00000°,δ42.00000°,λ-75.00000°.

Principal axes: T Plg4.0000°,Azm66.0000°; N Plg10.0000°,Azm335.0000°; P Plg79.0000°,Azm178.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 09 31 23.2–1.2**	**36.78N–.04**	**140.59E–.05**	**5–8**	**3.6b**	**21**	**0-91**	
ISCJB	IV	05 09 31 22.5–.62	36.78N–.04	140.61E–.05	10–4	3.6b			**¶17199876**
JMA	IV	05 09 31 22.7	36.78N	140.56E	7–1	3.6			
IDC	IV	05 09 31 22.3–.92	36.76N	140.55E	0	3.9,3.6			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.0km az=40.9.
JMA Event type fe.
IDC Error ellipse: s-maj=24.3km s-min=12.7km az=164.0.

(193) Bougainville-Solomon Islands region

ISC	**IV**	**05 09 57 13.1–.66**	**9.62S–.07**	**159.77E–.08**	**22–4**	**4.9b,4.0s**	**158**	**0-158**	
BJI	IV	05 09 57 06.7	10.21S	160.81E	28	5.1b,5.1s			**¶16408865**
ISCJB	IV	05 09 57 12.5–.85	9.56S–.06	159.63E–.05	27–5	4.8b,3.9s			
MOS	IV	05 09 57 12.3–.82	9.51S	159.66E	26	5.2b,3.9s			
NEIC	IV	05 09 57 13.7–.76	9.59S	159.73E	26–5	5.1b,3.9s			
IDC	IV	05 09 57 13.1–.66	9.62S	159.76E	23–3	4.4,4.4			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.1km az=154.9.
MOS Error ellipse: s-maj=11.3km s-min=9.3km az=58.4.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.8km az=144.0. Felt [IV] at Honiara.
IDC Error ellipse: s-maj=17.6km s-min=9.1km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 11 00 02.6–.64**	**38.41N–.05**	**142.12E–.06**	**41**	**4.0b**	**44**	**1-89**	
IDC	IV	05 10 59 56.7–.73	38.35N	142.23E	0	4.0,3.9			**¶16577676**
ISCJB	IV	05 11 00 00.5–.43	38.39N–.04	142.19E–.05	41	4.0b,3.9			
JMA	IV	05 11 00 00.4–.20	38.42N	142.22E	36–3	4.0,3.9			
NIED	IV	05 11 00 00	38.40N	142.20E	38	4.0W,3.9			
NEIC	IV	05 11 00 02.3–.81	38.38N	142.18E	41–7	4.6b,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.1km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=36.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ58.00000°,λ-156.00000°. NP2:ϕ_s232.00000°,δ70.00000°,λ-35.00000°. $M_0$1.05000×10^{15}
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.3km az=110.0.

(39) Central California

ISC	**IV**	**05 11 56 49.0–1.6**	**35.98N–.03**	**121.71W–.05**	**6–9**	**4.0b**	**213**	**1-101**	
ISCJB	IV	05 11 56 48.2–.61	35.95N–.02	121.65W–.03	8–4	4.6s,4.0b			**¶16411026**
IDC	IV	05 11 56 49.8–1.0	36.02N	121.57W	0	3.9,3.8			
NEIC	IV	05 11 56 50.4	36.07N	121.62W	11	4.3b,3.9W			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.4km az=147.4.
IDC Error ellipse: s-maj=18.8km s-min=9.1km az=49.0.
NEIC Event type fe. Felt [II] at Big Sur, Carmel, Carmel Valley, Monterey, Pacific Grove, Pebble Beach, Salinas, Santa Cruz, Seaside and Watsonville. Also felt at Aptos, Atascadero, Capitola, Felton, Fremont, Gilroy, Hollister, King City, Lockwood, Redwood City, San Francisco and Scotts Valley. After NCEDC. Moment Tensor Solution. $M_0$8.50000×10^{14}

(162) South Island

WEL	**IV**	**05 12 31 32.6–.20**	**44.74S**	**167.34E**	**5**	**3.9L**			**¶16411027**

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.1km az=90.0. Felt in the Fiordland region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA	**IV**	**05 12 44 07.3–.20**	**35.71N**	**140.96E**	**9–1**	**3.5**			**¶600578205**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**05 13 09 14.0–.10**	**38.04N**	**141.67E**	**48–2**	**3.7**			**¶600578233**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(71) Near coast of Guatemala

ISC	**IV**	**05 14 14 54.2–1.1**	**13.91N–.08**	**90.34W–.08**	**107–9**	**4.3b**	**70**	**3-147**	
ISCJB	IV	05 14 14 54.3–.82	13.95N–.08	90.37W–.07	118–7	4.3b			**¶16411030**
IDC	IV	05 14 14 55.9–1.8	14.02N	90.36W	114–14	4.2,4.0			
NEIC	IV	05 14 14 55.8–.80	14.00N	90.33W	114–7	4.6b,4.4			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.2km s-min=7.1km az=35.6.
IDC Error ellipse: s-maj=19.8km s-min=12.6km az=45.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=6.7km az=49.0. Felt [II] at San Salvador, El Salvador.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 14 41 38.6–1.3**	**35.86N–.06**	**140.92E–.05**	**3–9**	**4.3b,3.8s**	**97**	**0-152**	
NIED	IV	05 14 41 00	35.80N	141.00E	8	4.6W,3.8s			**¶602567229**
ISCJB	IV	05 14 41 36.4–.98	35.75N–.03	141.09E–.05	2–5	4.3b,3.7s			
IDC	IV	05 14 41 37.7–.64	35.70N	140.95E	0	4.2,4.1			
JMA	IV	05 14 41 38.3–.20	35.70N	140.99E	10–1	4.6,4.1			
MOS	IV	05 14 41 41.0–1.8	35.91N	140.89E	22	4.8b,4.1			
NEIC	IV	05 14 41 43.4–.96	36.18N	140.70E	18–6	4.7b,4.1			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ33.00000°,λ-80.00000°. NP2:ϕ_s159.00000°,δ58.00000°,λ-96.00000°. $M_0$1.02000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.2km az=18.1.
IDC Error ellipse: s-maj=17.8km s-min=13.9km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=100.6.
NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=6.6km az=150.0. Recorded [3 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 15 01 24.1–.90**	**39.30N–.04**	**142.28E–.05**	**48–7**	**4.3b,3.6s**	**121**	**0-82**	
NIED	IV	05 15 01 00	39.30N	142.20E	47	4.4W,3.6s			**¶16455853**
MOS	IV	05 15 01 20.7–.96	39.21N	142.26E	35	4.6b,3.6s			
ISCJB	IV	05 15 01 23.1–.51	39.28N–.03	142.28E–.06	52–3	4.3b,3.4s			
JMA	IV	05 15 01 23.8–.10	39.28N	142.25E	43–1	4.2,3.4s			
BJI	IV	05 15 01 25.2	39.70N	141.80E	10	4.9b,4.7b			
IDC	IV	05 15 01 26.9–2.1	39.27N	142.12E	69–19	4.1,4.0			
NEIC	IV	05 15 01 27.2–.74	39.28N	142.22E	74–6	4.6b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ102.00000°. $M_0$4.53000×10^{15}
MOS Error ellipse: s-maj=11.5km s-min=6.6km az=101.4.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.4km az=21.9.
JMA Event type fe.
IDC Error ellipse: s-maj=15.3km s-min=12.4km az=109.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=113.0.

(74) Near coast of Nicaragua

ISC	**IV**	**05 15 27 27.9–1.1**	**12.18N–.06**	**87.81W–.05**	**46–9**	**4.3b,3.6s**	**84**	**1-149**	
IDC	IV	05 15 27 25.1–3.3	12.29N	87.68W	21–20	4.1,4.0			**¶16411031**
ISCJB	IV	05 15 27 27.0–.49	12.12N–.05	87.82W–.04	54–5	4.2b,3.5s			
CASC	IV	05 15 27 27.5–1.8	12.13N	87.82W	36–999	4.5b,4.5			
NEIC	IV	05 15 27 29.0–.93	12.20N	87.74W	57–9	4.5b,4.0			

ISC Event type fe.
IDC Error ellipse: s-maj=35.8km s-min=14.7km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.1km az=38.4.
CASC Error ellipse: s-maj=10.4km s-min=7.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=16.3km s-min=6.3km az=48.0. Felt [I] at La Union, El Salvador.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 15 50 23.0–1.4**	**38.54N–.06**	**141.8E–.10**	**68**	**3.4b**	**21**	**0-83**	
NIED	IV	05 15 50 00	38.50N	141.80E	56	3.6W			**¶17199911**
IDC	IV	05 15 50 21.9–3.0	39.14N	141.09E	0	3.6,3.6			
ISCJB	IV	05 15 50 22.4–.97	38.53N–.05	141.8E–.10	68	3.4b,3.6			
JMA	IV	05 15 50 22.8–.10	38.53N	141.81E	51–1	3.7,3.6			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ28.00000°,λ68.00000°. NP2:ϕ_s15.00000°,δ65.00000°,λ101.00000°. $M_0$3.28000×10^{14}
IDC Error ellipse: s-maj=67.6km s-min=27.6km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=5.9km az=21.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**05 17 10 03.2–.10**	**35.69N**	**140.84E**	**27–1**	**2.8**			**¶600578371**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 18 13 05.7–1.1**	**37.10N–.04**	**141.19E–.09**	**53–8**	**3.8b,3.6s**	**32**	**0-74**	
ISCJB	IV	05 18 13 04.9–.85	37.08N–.04	141.2E–.10	62–4	3.7b,3.6s			**¶600578424**
IDC	IV	05 18 13 06.0–5.3	37.14N	141.26E	59–38	3.8,3.7			
JMA	IV	05 18 13 06.6–.10	37.09N	141.07E	55–1	3.9,3.7			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.1km az=1.8.
IDC Error ellipse: s-maj=67.0km s-min=15.8km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 19 11 41.2–2.1**	**38.57N–.04**	**142.51E–.05**	**8–12**	**4.1b,3.3s**	**115**	**1-145**	
NIED	IV	05 19 11 00	38.60N	142.40E	20	4.2W,3.3s			**¶16411034**
NEIC	IV	05 19 11 32.3–1.3	37.75N	144.54E	40–11	4.5b,3.3s			
BJI	IV	05 19 11 34.0	37.33N	143.90E	30	4.8b,4.4b			
ISCJB	IV	05 19 11 41.7–.85	38.58N–.03	142.52E–.04	21–5	4.1b,3.4s			
MOS	IV	05 19 11 42.5–.95	38.62N	142.52E	27	4.3b,3.4s			
JMA	IV	05 19 11 44.1–.10	38.61N	142.41E	33–3	4.2,3.4s			
IDC	IV	05 19 11 46.8–2.0	38.55N	142.33E	47–19	3.9,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ50.00000°,λ-51.00000°. NP2:ϕ_s257.00000°,δ53.00000°,λ-127.00000°. $M_0$2.26000×10^{15}
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=11.2km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=40.8.
MOS Error ellipse: s-maj=9.9km s-min=6.1km az=89.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=115.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 19 43 39.2–.58**	**39.72N–.04**	**142.28E–.05**	**46–4**	**4.6b,3.5s**	**234**	**0-145**	
NIED	IV	05 19 43 00	39.70N	142.30E	41	4.5W,3.5s			**¶16410390**
ISCJB	IV	05 19 43 37.9–.44	39.73N–.03	142.31E–.05	49–2	4.5b,3.4s			
MOS	IV	05 19 43 38.5–1.0	39.82N	142.23E	49	4.8b,3.4s			
JMA	IV	05 19 43 39.0–.10	39.73N	142.25E	44–1	4.3,3.4s			
NEIC	IV	05 19 43 41.4–.57	39.76N	142.19E	64–5	4.7b,3.4s			
IDC	IV	05 19 43 41.9–2.2	39.72N	142.17E	67–19	4.4,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ19.00000°,λ68.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ97.00000°. $M_0$6.22000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=25.5.
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=103.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=120.0.
IDC Error ellipse: s-maj=15.7km s-min=12.0km az=110.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 20 19 23.8–2.4**	**38.81N–.06**	**142.1E–.20**	**42–17**	**3.6b**	**22**	**0-59**	
IDC	IV	05 20 19 15.3–2.6	38.97N	142.74E	0	3.7,3.6			**¶17199924**
ISCJB	IV	05 20 19 23.9–1.3	38.78N–.05	142.0E–.10	56–7	3.5b,3.1s			
JMA	IV	05 20 19 24.2–.10	38.77N	142.01E	48–1	3.6,3.1s			

ISC Event type ke.
IDC Error ellipse: s-maj=54.9km s-min=29.7km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=17.2km s-min=7.9km az=1.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 21 23 59.7–.40**	**36.32N–.03**	**140.95E–.04**	**23–2**	**4.3b,3.4s**	**130**	**0-147**	
NIED	IV	05 21 23 00	36.30N	140.90E	29	4.3W,3.4s			**¶16410395**
BJI	IV	05 21 23 58.9	36.21N	140.70E	25	4.7b,4.6b			
ISCJB	IV	05 21 23 59.1–.57	36.31N–.02	141.01E–.04	31–3	4.2b,3.2s			
JMA	IV	05 21 23 59.8–.10	36.31N	140.94E	41–1	4.4,3.2s			
IDC	IV	05 21 24 01.0–.51	36.19N	140.81E	32–3	4.6L,4.2			
NEIC	IV	05 21 24 02.3–.93	36.20N	140.90E	47–8	4.7b,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ7.00000°,λ-168.00000°. NP2:ϕ_s200.00000°,δ88.00000°,λ-83.00000°. $M_0$2.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.0km az=16.9.
JMA Event type fe.
IDC Error ellipse: s-maj=14.1km s-min=12.5km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.6km az=125.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 22 01 58.5–.40**	**38.37N–.03**	**142.32E–.03**	**16–2**	**5.0b,4.5s**	**569**	**1-151**	
NIED	IV	05 22 01 00	38.40N	142.30E	14	4.8W,4.5s			**¶16410396**
BJI	IV	05 22 01 55.5	38.20N	142.30E	16	5.0b,4.9b			
IDC	IV	05 22 01 56.3–.45	38.32N	142.17E	0	4.8,4.7			
ISCJB	IV	05 22 01 58.6–.64	38.35N–.02	142.21E–.03	24–4	4.9b,4.5s			
JMA	IV	05 22 01 58.2–.20	38.40N	142.31E	27–3	5.0,4.5s			
NEIC	IV	05 22 01 59.3–2.0	38.37N	142.10E	16–12	5.0b,4.5s			
GCMT	IV	05 22 01 59.3–.30	38.37N	142.31E	17–1	5.0W,4.5s			
MOS	IV	05 22 02 00.2–.94	38.46N	142.15E	32	5.1b,4.6s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ22.00000°,λ-48.00000°. NP2:ϕ_s307.00000°,δ74.00000°,λ-105.00000°. $M_0$2.09000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=11.2km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=42.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=125.0. Recorded [3 JMA] in Miyagi.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c37; s92,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.28±.16 $M_{\theta\theta}$0.91±.09; $M_{\phi\phi}$1.37±.10; $M_{r\theta}$2.24±.31; $M_{\theta\phi}$-0.21±.06; $M_{\phi r}$-2.49±.30; Best double couple: NP1:ϕ_s320.00000°,δ76.00000°,λ-93.00000°. NP2:ϕ_s153.00000°,δ15.00000°,λ-78.00000°. Principal axes: T 3.3770,Plg31.0000°,Azm53.0000°; N 0.8950,Plg3.0000°,Azm321.0000°; P -4.2690,Plg59.0000°,Azm226.0000° $M_0$3.82300×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=108.0.

(238) Ryukyu Islands

ISC	**IV**	**05 22 31 31.1–1.3**	**29.10N–.03**	**129.51E–.05**	**13–9**	**3.4b**	**25**	**0-75**	
NIED	IV	05 22 31 00	29.10N	129.40E	5	3.9W			**¶17199935**
IDC	IV	05 22 31 29.4–1.4	29.09N	129.55E	0	3.7,3.5			
ISCJB	IV	05 22 31 31.8–.48	29.10N–.03	129.47E–.05	27–4	3.4b,2.8s			
JMA	IV	05 22 31 31.3–.10	29.12N	129.44E	34	3.5,2.8s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ22.00000°,λ-107.00000°. NP2:ϕ_s320.00000°,δ69.00000°,λ-83.00000°. $M_0$9.09000×10^{14}
IDC Error ellipse: s-maj=43.0km s-min=24.8km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.2km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**05 22 54 26.2–1.6**	**39.11N–.04**	**142.32E–.07**	**28–10**	**4.0b,3.1s**	**41**	**1-83**	
NIED	IV	05 22 54 00	39.20N	142.40E	32	3.8W,3.1s			**¶16577690**
IDC	IV	05 22 54 22.0–.85	39.06N	142.30E	0	3.9,3.8			
ISCJB	IV	05 22 54 26.4–.88	39.13N–.04	142.39E–.08	44–7	3.9b,3.2s			
JMA	IV	05 22 54 26.4–.10	39.19N	142.40E	32–1	4.2,3.2s			
NEIC	IV	05 22 54 27.2–.50	39.11N	142.33E	35	4.3b,3.2s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ42.00000°,λ-109.00000°. NP2:ϕ_s163.00000°,δ51.00000°,λ-74.00000°. $M_0$6.68000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=19.8km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.7km az=21.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.4km az=124.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 00 22 45.5–2.4**	**36.91N–.08**	**141.3E–.20**	**43–14**	**3.3b**	**20**	**0-51**	
IDC	IV	06 00 22 31.2–6.2	36.45N	142.46E	0	3.5,3.5			**¶17199941**
JMA	IV	06 00 22 47.5–.10	36.94N	141.13E	50–1	3.4,3.5			

ISC Event type ke.
IDC Error ellipse: s-maj=102.0km s-min=66.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 03 27 55.1–.84**	**38.80N–.07**	**141.94E–.10**	**51**	**3.7b**	**17**	**0-116**	

NIED IV 06 03 27 00 38.80N 142.10E 32 4.0W ¶17199954
IDC IV 06 03 27 48.0–.84 38.68N 141.99E 0 3.9,3.7
ISCJB IV 06 03 27 53.1–.71 38.76N–.06 142.03E–.07 51 3.8b,3.7
JMA IV 06 03 27 53.5–.10 38.80N 142.08E 36–2 3.9,3.7
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s219.00000°,δ55.00000°,λ-148.00000°. NP2:ϕ_s109.00000°,δ64.00000°,λ-39.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=35.3km s-min=21.8km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=7.8km az=148.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 06 04 39 48.5–1.2 36.49N–.07 140.65E–.07 60–8 20 0-56
IDC IV 06 04 39 38.8–3.0 36.66N 141.25E 0 3.6,3.5b ¶17199963
ISCJB IV 06 04 39 47.7–.88 36.48N–.05 140.64E–.07 64–6 3.5b,3.5b
JMA IV 06 04 39 49.2–.10 36.52N 140.57E 58–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=69.2km s-min=33.3km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.8km az=42.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 06 05 31 21.4–1.7 38.23N–.05 141.9E–.10 42–15 4.1b 26 1-80
NIED IV 06 05 31 00 38.30N 141.80E 44 3.7W ¶17199970
IDC IV 06 05 31 14.2–1.7 38.38N 142.43E 0 4.0,4.0b
ISCJB IV 06 05 31 21.4–1.1 38.26N–.05 141.9E–.10 55–7 4.0b,3.4s
JMA IV 06 05 31 22.5–.10 38.25N 141.78E 50–1 4.1,3.4s
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s179.00000°,δ16.00000°,λ69.00000°. NP2:ϕ_s20.00000°,δ75.00000°,λ96.00000°. $M_0$4.63000×10^{14}
IDC Error ellipse: s-maj=45.8km s-min=22.7km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=6.6km az=16.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 06 05 54 20.7–.72 38.36N–.04 142.27E–.04 8–4 4.5b,4.0s 142 1-145
NIED IV 06 05 54 00 38.40N 142.30E 11 4.3W,4.0s ¶16411040
ISCJB IV 06 05 54 21.5–.83 38.36N–.03 142.29E–.04 24–5 4.4b,3.9s
JMA IV 06 05 54 22.1–.20 38.40N 142.30E 31–3 4.5,3.9s
MOS IV 06 05 54 23.1–.98 38.38N 142.31E 37 4.6b,3.9s
NEIC IV 06 05 54 26.6–.73 38.35N 142.17E 46–6 4.6b,3.9s
IDC IV 06 05 54 26.2–2.2 38.35N 142.11E 42–20 4.3,4.2
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s158.00000°,δ19.00000°,λ-56.00000°. NP2:ϕ_s303.00000°,δ75.00000°,λ-101.00000°. $M_0$3.10000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=33.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=6.7km az=101.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.2km az=110.0.
IDC Error ellipse: s-maj=14.0km s-min=11.4km az=104.0.

(229) Off east coast of Honshu

ISC IV 06 06 06 58.4–.51 37.38N–.04 142.41E–.03 13–2 4.8b,4.0s 563 1-154
NIED IV 06 06 06 00 37.30N 142.50E 8 4.7W,4.0s ¶16411042
JMA IV 06 06 06 54.1–.20 37.32N 142.49E 0 4.8,4.0s
ISCJB IV 06 06 06 55.5–.85 37.30N–.02 142.42E–.02 4–5 4.7b,4.0s
IDC IV 06 06 06 55.9–.46 37.31N 142.45E 0 4.7,4.6
BJI IV 06 06 06 58.0 37.21N 142.60E 35 4.9b,4.8b
MOS IV 06 06 07 00.7–.90 37.63N 142.32E 28 5.0b,4.8b
NEIC IV 06 06 07 02.5–.65 37.34N 142.36E 40–5 4.9b,4.8b
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s347.00000°,δ44.00000°,λ-104.00000°. NP2:ϕ_s186.00000°,δ47.00000°,λ-76.00000°. $M_0$1.23000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=172.7.
IDC Error ellipse: s-maj=12.2km s-min=11.6km az=121.0.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=103.1.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=146.0.

(228) Near east coast of eastern Honshu

ISC IV 06 06 14 26.2–2.5 39.55N–.05 142.65E–.06 15–14 4.2b 59 1-145
NIED IV 06 06 14 00 39.60N 142.70E 8 4.2W ¶16506226
ISCJB IV 06 06 14 25.0–1.2 39.58N–.04 142.76E–.07 18–7 4.2b
JMA IV 06 06 14 24.9–.20 39.56N 142.75E 17–2 4.4
IDC IV 06 06 14 30.4–2.4 39.54N 142.68E 48–22 4.2,4.1
NEIC IV 06 06 14 30.5–1.0 39.65N 142.77E 47–8 4.5b,4.1
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s110.00000°,δ32.00000°,λ-34.00000°. NP2:ϕ_s229.00000°,δ73.00000°,λ-117.00000°. $M_0$2.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=6.0km az=29.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.3km az=137.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=123.0.

(228) Near east coast of eastern Honshu

JMA IV 06 07 12 58.5–.20 37.37N 141.83E 40–3 4.0 ¶600578788
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 06 07 54 18.4–1.1 38.57N–.06 142.18E–.09 41 3.5b 21 1-76
NIED IV 06 07 54 00 38.60N 142.20E 47 3.8W ¶17199984
IDC IV 06 07 54 12.6–1.1 38.60N 142.42E 0 3.9,3.8
ISCJB IV 06 07 54 16.8–.77 38.55N–.05 142.19E–.08 41 3.5b,3.8
JMA IV 06 07 54 17.4–.10 38.61N 142.16E 39–2 4.0,3.8
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s355.00000°,δ80.00000°,λ-176.00000°. NP2:ϕ_s265.00000°,δ86.00000°,λ-10.00000°. $M_0$5.32000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=21.1km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.7km az=166.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(254) Panay

MAN IV 06 09 31 28 10.85N 122.39E 8 4.1b,2.9L ¶601668983
MAN Event type fe. INTENSITY II - JANIUAY ILOILO.

(228) Near east coast of eastern Honshu

ISC IV 06 10 09 24.0–1.1 35.87N–.05 140.61E–.08 13–8 3.8b 27 0-91
NIED IV 06 10 09 00 35.90N 140.80E 23 4.0W ¶16413280
IDC IV 06 10 09 21.9–.67 35.86N 140.67E 0 3.9,3.8
ISCJB IV 06 10 09 23.8–.54 35.86N–.04 140.76E–.07 26–3 3.7b,2.9s
JMA IV 06 10 09 24.7–.10 35.89N 140.71E 18–1 4.1,2.9s
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s292.00000°,δ42.00000°,λ-143.00000°. NP2:ϕ_s173.00000°,δ66.00000°,λ-54.00000°. $M_0$1.24000×10^{15}
IDC Error ellipse: s-maj=20.8km s-min=15.3km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.4km az=158.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s170.00000°,δ52.00000°,λ-88.00000°. NP2:ϕ_s346.00000°,δ38.00000°,λ-93.00000°. Principal axes: T Plg7.0000°,Azm258.0000°; N Plg2.0000°,Azm348.0000°; P Plg83.0000° ,Azm94.0000°

(228) Near east coast of eastern Honshu

JMA IV 06 10 44 56.0–.20 38.94N 142.36E 32–2 3.5
NIED IV 06 10 44 00 38.90N 142.40E 38 3.9W ¶600578885
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s113.00000°,δ16.00000°,λ67.00000°. NP2:ϕ_s317.00000°,δ75.00000°,λ96.00000°. $M_0$8.94000×10^{14}

(228) Near east coast of eastern Honshu

ISC IV 06 10 47 54.1–.96 38.82N–.05 142.38E–.07 27 3.7b 17 1-88
NIED IV 06 10 47 00 38.90N 142.40E 50 3.9W ¶17199996
ISCJB IV 06 10 47 53.4–.79 38.87N–.06 142.50E–.07 27 3.5b
JMA IV 06 10 47 55.9–.20 38.95N 142.37E 39–2 3.9
IDC IV 06 10 47 58.5–4.0 38.83N 142.37E 62–38 3.6,3.6
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s134.00000°,δ28.00000°,λ-88.00000°. NP2:ϕ_s312.00000°,δ62.00000°,λ-91.00000°. $M_0$7.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=7.7km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.2km s-min=26.6km az=96.0.

(227) Eastern Honshu

ISC IV 06 11 48 55.8–1.1 37.05N–.03 140.32E–.03 11–9 3.7b 29 0-61
NIED IV 06 11 48 00 37.00N 140.30E 35 3.9W ¶16413281
IDC IV 06 11 48 54.5–1.7 36.96N 140.40E 0 3.7,3.6
ISCJB IV 06 11 48 56.1–.40 37.04N–.03 140.34E–.03 20–5 3.6b,3.6
JMA IV 06 11 48 56.3 37.05N 140.32E 12–1 3.8,3.6
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s281.00000°,δ59.00000°,λ-164.00000°. NP2:ϕ_s182.00000°,δ76.00000°,λ-32.00000°. $M_0$6.96000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=21.0km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=152.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ69.00000°,λ23.00000°. NP2:ϕ_s279.00000°,δ69.00000°,λ157.00000°. Principal axes: T Plg31.0000°,Azm238.0000°; N Plg59.0000°,Azm58.0000°; P Plg0.0000° ,Azm148.0000°

(228) Near east coast of eastern Honshu

ISC IV 06 12 21 49.6–1.0 37.49N–.04 141.61E–.09 39–3 3.5b 33 1-146
ISCJB IV 06 12 21 49.4–.94 37.46N–.04 141.58E–.09 50–8 3.5b ¶17200004
IDC IV 06 12 21 51.5–4.6 37.40N 141.47E 51–39 3.5,3.5
JMA IV 06 12 21 51.3–.10 37.52N 141.45E 47–2 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.2km az=8.0.
IDC Error ellipse: s-maj=39.6km s-min=16.8km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 06 12 56 51.6–.53 36.72N–.03 140.59E–.04 20–2 4.9b,4.0s 719 0-158
NIED IV 06 12 56 00 36.70N 140.70E 5 4.7W,4.0s ¶16411052
ISCJB IV 06 12 56 50.2–.52 36.78N–.02 140.42E–.02 15–3 4.8b,4.0s
BJI IV 06 12 56 50.3 36.63N 140.75E 37 4.9b,4.7b
JMA IV 06 12 56 50.4 36.73N 140.60E 7–1 4.9,4.7b
MOS IV 06 12 56 53.5–.94 37.10N 140.35E 28 5.1b,4.7b
NEIC IV 06 12 56 54.7–.54 36.74N 140.36E 36–5 4.9b,4.7b
IDC IV 06 12 56 55.1–1.4 36.70N 140.50E 44–13 4.6,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ35.00000°,λ-66.00000°. NP2:ϕ_s163.00000°,δ59.00000°,λ-106.00000°. $M_0$1.21000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=151.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s172.00000°,δ52.00000°,λ-76.00000°. NP2:ϕ_s330.00000°,δ40.00000°,λ-107.00000°. Principal axes: T Plg6.0000°,Azm252.0000°; N Plg11.0000°,Azm343.0000°; P Plg78.0000° ,Azm135.0000°
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=100.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.3km az=149.0. Felt at Tokyo. Recorded [4 JMA] in Ibaraki.
IDC Error ellipse: s-maj=10.2km s-min=8.1km az=74.0.

(228) Near east coast of eastern Honshu

ISC IV 06 13 54 51.2–.31 37.67N–.03 141.49E–.03 53–2 5.4b,4.9s 1273 1-156
NIED IV 06 13 54 00 37.60N 141.60E 53 5.1W,4.9s ¶16411054
MOS IV 06 13 54 47.7–.80 37.66N 141.44E 32 5.6b,4.1s
BJI IV 06 13 54 50.1 37.61N 141.43E 61 5.3b,5.0b
ISCJB IV 06 13 54 51.0–.28 37.65N–.02 141.45E–.02 60–2 5.4b,4.9s
JMA IV 06 13 54 51.1–.10 37.63N 141.57E 46–2 5.3,4.9s
IDC IV 06 13 54 51.4–.38 37.66N 141.56E 52–3 5.2,5.1
NEIC IV 06 13 54 52.2–.32 37.65N 141.43E 60–2 5.4b,5.3W
GCMT IV 06 13 54 52.2–.40 37.91N 141.56E 54–1 5.2W,5.3W
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ42.00000°,λ83.00000°. NP2:ϕ_s210.00000°,δ49.00000°,λ96.00000°. $M_0$5.84000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=104.2.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.0.
JMA Event type fe.
IDC Error ellipse: s-maj=10.1km s-min=7.7km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=139.0. Felt [II] at Tokyo. Also felt at Fukushima, Misawa, Musashino and Otawara. Recorded [4 JMA] in Miyagi. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-0.69 $M_{\phi\phi}$-0.38 $M_{r\theta}$0.13 $M_{\theta\phi}$0.43 $M_{\phi r}$-0.30 Best double couple: NP1:ϕ_s133.00000°,δ53.00000°,λ100.00000°. NP2: ϕ_s298.00000°,δ38.00000°,λ77.00000°. Principal axes: T 1.1200,Plg79.0000°,Azm83.0000° ; N -0.1000,Plg8.0000°,Azm308.0000°; P -1.0200,Plg8.0000°,Azm217.0000° $M_0$1.10000×10^{17}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c67; s53,c77; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}7.51±.31 $M_{\theta\theta}$-1.84±.20; $M_{\phi\phi}$-5.68±.20; $M_{r\theta}$-0.25±.17; $M_{\theta\phi}$-1.96±.14; $M_{\phi r}$-0.46±.19; Best double couple: NP1:ϕ_s203.00000° ,δ47.00000°,λ90.00000°. NP2:ϕ_s22.00000°,δ43.00000°,λ89.00000°. Principal axes: T 7.5300,Plg88.0000°,Azm123.0000°; N -1.0170,Plg0.0000°,Azm23.0000° ; P -6.5230,Plg2.0000°,Azm293.0000° $M_0$7.02600×10^{16}

(706) Northern Sumatera

ISC IV 06 14 01 44.7–.31 1.63N–.02 97.17E–.03 31–1 6.0s,5.8b 1395 1-175
BJI IV 06 14 01 42.2 1.70N 97.25E 20 6.4,6.3s ¶16411055
NEIC IV 06 14 01 42.6–.11 1.61N 97.09E 20 6.4,6.0W
ISCJB IV 06 14 01 42.3–.50 1.60N–.02 97.14E–.02 28–3 6.0s,5.8b
NEIC IV 06 14 01 43.0–.00 1.28N 97.15E 18 6.0s,5.8b
IDC IV 06 14 01 43.5–1.3 1.63N 97.29E 26–8 5.7,5.7s
GCMT IV 06 14 01 43.3–.10 1.40N 96.82E 24–0 5.9W,5.7s
MOS IV 06 14 01 43.1–.99 1.69N 97.22E 33 6.1b,5.9s
KLM IV 06 14 01 46.3 1.69N 97.13E 35 6.7s,6.0L
DJA IV 06 14 01 46.2–.40 2N–2.0 97E–2.0 36–3 6.1,6.0b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gunungsitoli, Nias and [III] at Sibolga, Sumatra. Also felt at Kuala Lumpur, Malaysia. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s59 Moment tensor: Scale 10^{17}Nm; M_{rr}4.04 $M_{\theta\theta}$-0.86 $M_{\phi\phi}$-3.18 $M_{r\theta}$3.62 $M_{\theta\phi}$-0.46 $M_{\phi r}$-2.56 Best double couple: NP1:ϕ_s146.00000°,δ71.00000°,λ72.00000°. NP2: ϕ_s11.00000°,δ26.00000°,λ132.00000°. Principal axes: T 6.5900,Plg60.0000°,Azm30.0000° ; N -2.3700,Plg17.0000°,Azm152.0000°; P -4.2200,Plg24.0000°,Azm250.0000° $M_0$5.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s320.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s140.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm50.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000° ,Azm230.0000°
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ77.00000° ,λ91.00000°. NP2:ϕ_s308.00000°,δ13.00000°,λ85.00000°. Principal axes: T 1.0700,Plg57.0000°,Azm44.0000°; N 0.0500,Plg0.0000°,Azm312.0000° ; P -1.1300,Plg32.0000°,Azm222.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c231; s113,c256;Duration: 2$\hat{s}$1 Moment tensor: Scale 10^{17} Nm; M_{rr}5.24±.08 $M_{\theta\theta}$-2.01±.05; $M_{\phi\phi}$-3.23±.06; $M_{r\theta}$4.30±.12; $M_{\theta\phi}$2.40±.04; $M_{\phi r}$-3.83±.12; Best double couple: NP1:ϕ_s135.00000°,δ69.00000°,λ85.00000°. NP2:ϕ_s329.00000° ,δ21.00000°,λ104.00000°. Principal axes: T 7.8530,Plg65.0000°,Azm36.0000° ; N -0.2340,Plg5.0000°,Azm136.0000°; P -7.6190,Plg24.0000°,Azm229.0000° $M_0$7.73600×10^{17}

(228) Near east coast of eastern Honshu

ISC IV 06 15 36 24.4–1.7 38.89N–.07 142.1E–.10 51 17 0-59
IDC IV 06 15 36 14.5–3.1 39.09N 142.98E 0 3.4,3.3b ¶17200022
ISCJB IV 06 15 36 23.6–1.3 38.88N–.05 142.1E–.10 51 3.2b,3.3b
JMA IV 06 15 36 24.2–.10 38.87N 142.03E 47–1 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=71.3km s-min=32.3km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.5km az=10.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 06 15 56 28.7–.00 37.04N–.04 141.34E–.07 33–5 3.8b 28 0-74
NIED IV 06 15 56 00 37.10N 141.20E 56 4.6W ¶17200023
ISCJB IV 06 15 56 28.2–.98 37.01N–.04 141.4E–.10 48–7 3.6b
JMA IV 06 15 56 30.2–.10 37.05N 141.19E 50–1 3.9
IDC IV 06 15 56 32.4–2.8 36.91N 141.15E 69–26 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ26.00000°,λ155.00000°. NP2:ϕ_s75.00000°,δ79.00000°,λ66.00000°. $M_0$8.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=6.8km az=4.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=14.6km az=74.0.

(162) South Island

ISC	**IV**	**06 15 57 14.4–1.0**	**43.52S–.03**	**172.81E–.04**	**8–8**		**64**	**0-153**
IDC	IV	06 15 56 58.6–8.0	40.89S	176.62E	0	3.4,3.3		¶16413334
ISCJB	IV	06 15 57 13.3–.56	43.58S–.03	172.86E–.05	15–4	3.0b,3.3		
NEIC	IV	06 15 57 15.4	43.53S	172.72E	10	4.0L,3.3		
WEL	IV	06 15 57 15.5–.08	43.53S	172.71E	10–0	4.0L,3.3		

ISC Event type fe.
IDC Error ellipse: s-maj=551.0km s-min=60.5km az=1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=136.5.
NEIC Event type fe. Felt widely in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 16 25 38.7–.79**	**38.34N–.04**	**142.25E–.04**	**27–4**	**4.6b,3.9s**	**218**	**1-145**
NIED	IV	06 16 25 00	38.40N	142.20E	38	4.4W,3.9s		¶16411058
IDC	IV	06 16 25 35.0–.50	38.33N	142.14E	0	4.8L,4.5		
BJI	IV	06 16 25 37.3	38.24N	142.23E	36	5.0b,4.8b		
ISCJB	IV	06 16 25 37.2–.75	38.32N–.03	142.25E–.04	28–4	4.5b,4.0s		
MOS	IV	06 16 25 38.5–.97	38.38N	142.27E	36	4.9b,4.0s		
JMA	IV	06 16 25 39.5–.20	38.39N	142.14E	39–3	4.5,4.0s		
NEIC	IV	06 16 25 41.2–.62	38.32N	142.16E	45–5	4.8b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ22.00000°,λ-179.00000°. NP2:ϕ_s180.00000°,δ90.00000°,λ-68.00000°. $M_0$3.89000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=12.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=35.3.
MOS Error ellipse: s-maj=8.3km s-min=5.5km az=103.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.7km az=118.0. Recorded [3 JMA] in Miyagi.

(246) Southwestern Ryukyu Islands

ISC	**IV**	**06 17 13 59.2–.81**	**24.25N–.08**	**123.47E–.03**	**44–7**	**3.6b**	**40**	**0-95**
NIED	IV	06 17 13 00	24.30N	123.50E	32	4.0W		¶17200028
ISCJB	IV	06 17 13 58.7–.46	24.26N–.07	123.46E–.03	53–3	3.6b		
JMA	IV	06 17 13 59.7	24.29N	123.51E	45–1	3.7		
IDC	IV	06 17 13 59.8–3.5	24.33N	123.44E	48–34	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ47.00000°,λ62.00000°. NP2:ϕ_s283.00000°,δ50.00000°,λ117.00000°. $M_0$1.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=4.6km az=177.4.
JMA Event type fe.
IDC Error ellipse: s-maj=25.0km s-min=16.1km az=63.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 17 55 18.2–.64**	**36.90N–.05**	**140.54E–.06**	**10**	**3.7b**	**19**	**0-91**
NIED	IV	06 17 55 00	36.90N	140.50E	5	3.7W		¶17200032
ISCJB	IV	06 17 55 16.9–.55	36.91N–.05	140.66E–.07	10	3.6b		
IDC	IV	06 17 55 16.4–.83	36.94N	140.63E	0	3.8,3.7		
JMA	IV	06 17 55 18.5	36.88N	140.52E	5–2	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ28.00000°,λ-110.00000°. NP2:ϕ_s192.00000°,δ64.00000°,λ-80.00000°. $M_0$4.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.3km az=39.1.
IDC Error ellipse: s-maj=21.3km s-min=16.3km az=109.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s172.00000°,δ45.00000°,λ-97.00000°. NP2:ϕ_s2.00000°,δ45.00000°,λ-83.00000°. Principal axes: T Plg0.0000°,Azm267.0000°; N Plg5.0000°,Azm177.0000°; P Plg85.0000° ,Azm357.0000°

(229) Off east coast of Honshu

ISC	**IV**	**06 19 20 19.0–.54**	**39.40N–.04**	**143.53E–.05**	**26–2**	**4.8b,4.8s**	**274**	**1-145**
NIED	IV	06 19 20 00	39.30N	143.90E	14	4.8W,4.8s		¶16413282
JMA	IV	06 19 20 11.7–.20	39.33N	143.90E	0	4.9,4.8s		
IDC	IV	06 19 20 15.0–.51	39.32N	143.63E	0	4.6,4.5		
ISCJB	IV	06 19 20 15.9–1.1	39.37N–.03	143.58E–.05	14–6	4.7b,4.6s		
MOS	IV	06 19 20 18.8–1.1	39.47N	143.53E	32	5.0b,4.4s		
NEIC	IV	06 19 20 20.2–.34	39.32N	143.52E	35	4.9b,4.4s		
BJI	IV	06 19 20 25.6	39.48N	142.77E	59	5.2b,4.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ35.00000°,λ85.00000°. NP2:ϕ_s14.00000°,δ56.00000°,λ93.00000°. $M_0$1.72000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.7km az=37.4.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=107.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.3km az=126.0.

(227) Eastern Honshu

ISC	**IV**	**06 20 56 45.2–1.4**	**37.04N–.07**	**140.85E–.07**	**7–10**	**3.4b**	**15**	**0-61**
ISCJB	IV	06 20 56 43.5–1.3	37.05N–.05	141.08E–.09	10–6	3.3b		¶17200050
IDC	IV	06 20 56 43.8–1.8	36.99N	141.08E	0	3.4,3.3b		
JMA	IV	06 20 56 46.3	37.10N	140.81E	7–1	2.9,3.3b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=7.6km az=9.9.
IDC Error ellipse: s-maj=40.8km s-min=23.9km az=54.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 22 25 35.8–1.2**	**37.92N–.04**	**141.70E–.08**	**52–10**	**4.0b,3.3s**	**52**	**1-89**
NIED	IV	06 22 25 00	37.90N	141.70E	50	4.2W,3.3s		¶17200059
ISCJB	IV	06 22 25 34.7–.74	37.92N–.04	141.70E–.08	58–5	4.0b,3.2s		
JMA	IV	06 22 25 35.4–.10	37.91N	141.67E	48–2	4.2,3.2s		
IDC	IV	06 22 25 37.6–2.0	37.87N	141.62E	70–18	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ3.00000°,λ52.00000°. NP2:ϕ_s6.00000°,δ87.00000°,λ92.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.2km az=18.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=12.8km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**06 23 49 31.5–1.6**	**37.36N–.04**	**141.50E–.07**	**29–10**	**4.2b**	**67**	**0-90**
NIED	IV	06 23 49 00	37.40N	141.60E	11	3.8W		¶16577711
IDC	IV	06 23 49 26.6–1.1	37.24N	141.54E	0	4.0b,4.0		
ISCJB	IV	06 23 49 30.6–1.0	37.35N–.03	141.54E–.05	33–6	4.2b,4.0		
JMA	IV	06 23 49 30.9–.10	37.38N	141.56E	32–2	4.2,4.0		
NEIC	IV	06 23 49 32.3–.33	37.30N	141.48E	35	4.7b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ19.00000°,λ-63.00000°. NP2:ϕ_s33.00000°,δ73.00000°,λ-99.00000°. $M_0$6.10000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=17.2km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.3km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.3km az=155.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**07 01 12 04.1–.10**	**37.42N**	**141.53E**	**42–2**	**3.6**		
								¶16506236

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 02 11 30.5–1.6**	**37.30N–.05**	**141.55E–.07**	**29–11**	**3.7b**	**25**	**1-146**
NIED	IV	07 02 11 00	37.30N	141.40E	56	3.9W		¶600579597
IDC	IV	07 02 11 26.3–.89	37.34N	141.50E	0	3.8,3.6		
ISCJB	IV	07 02 11 30.4–.95	37.27N–.04	141.54E–.09	44–9	3.6b,3.6		
JMA	IV	07 02 11 32.0–.10	37.29N	141.41E	44–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ33.00000°,λ86.00000°. NP2:ϕ_s17.00000°,δ57.00000°,λ92.00000°. $M_0$6.69000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=19.0km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.7km az=14.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(502) Arkansas

ISC	**IV**	**07 02 34 49.6–.98**	**35.29N–.02**	**92.42W–.02**	**7–8**		**295**	**0-17**
ISCJB	IV	07 02 34 49.4–.52	35.28N–.01	92.41W–.02	8–4			¶16424633
NEIC	IV	07 02 34 50.0	35.23N	92.37W	6	3.4W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.9km az=25.0.
NEIC Event type fe. Felt [IV] at Greenbrier; [III] at Damascus and Vilonia; [II] at Conway, Little Rock, Mountain Home and Mountain View. Also felt at Alpena, Arkadelphia, Benton, Cabot, Cave City, Choctaw, Enola, Fayetteville, Fort Smith, Hardy, Harrison, Huntsville, Kingston, Lakeview, Mabelvale, Maumelle, Mayflower, North Little Rock, Prairie Grove, Quitman and Rogers. After CERI. Moment Tensor Solution. s12 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.12 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-1.24 $M_{r\theta}$0.23 $M_{\theta\phi}$1.01 $M_{\phi r}$0.74 Best double couple: NP1:ϕ_s115.00000° ,δ65.00000°,λ-5.00000°. NP2:ϕ_s207.00000°,δ85.00000°,λ-155.00000°. Principal axes: T 1.8200,Plg14.0000°,Azm338.0000°; N 0.0000,Plg65.0000°,Azm217.0000° ; P -1.8200,Plg21.0000°,Azm74.0000° $M_0$1.80000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 02 40 46.2–.48**	**36.56N–.03**	**140.88E–.04**	**41–3**	**4.9b,4.2s**	**522**	**0-158**
NIED	IV	07 02 40 00	36.60N	140.90E	50	4.8W,4.2s		¶16413291
BJI	IV	07 02 40 43.0	36.39N	141.03E	49	5.0b,4.9b		
MOS	IV	07 02 40 45.1–.77	36.83N	140.67E	31	5.2b,4.0s		
JMA	IV	07 02 40 46.6–.10	36.54N	140.89E	51–1	4.9,4.0s		
ISCJB	IV	07 02 40 47.3–.30	36.61N–.03	140.72E–.03	57–2	4.8b,4.1s		
IDC	IV	07 02 40 48.7–1.3	36.52N	140.82E	63–11	4.9,4.6		
NEIC	IV	07 02 40 48.2–.55	36.59N	140.71E	53–4	4.9b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ10.00000°,λ51.00000°. NP2:ϕ_s35.00000°,δ82.00000°,λ96.00000°. $M_0$1.81000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=103.4.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=150.8.
IDC Error ellipse: s-maj=9.3km s-min=8.2km az=81.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=157.0. Recorded [4 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 06 04 44.6–1.0**	**36.66N–.04**	**140.61E–.05**	**12–6**		**19**	**0-60**
NIED	IV	07 06 04 00	36.70N	140.60E	5	3.4W		¶17200082
ISCJB	IV	07 06 04 44.0–1.0	36.60N–.04	140.72E–.07	11–4	3.7b		
IDC	IV	07 06 04 44.0–5.9	36.55N	140.70E	0	3.8,3.5		
JMA	IV	07 06 04 45.8	36.68N	140.59E	5–1	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ34.00000°,λ-75.00000°. NP2:ϕ_s165.00000°,δ57.00000°,λ-100.00000°. $M_0$1.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.4km az=33.8.
IDC Error ellipse: s-maj=124.7km s-min=28.7km az=24.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s350.00000°,δ53.00000°,λ-100.00000°. NP2:ϕ_s186.00000°,δ39.00000°,λ-77.00000°. Principal axes: T Plg7.0000°,Azm87.0000°; N Plg8.0000°,Azm356.0000°; P Plg79.0000° ,Azm218.0000°

(229) Off east coast of Honshu

ISC	**IV**	**07 06 34 21.9–2.1**	**37.89N–.05**	**142.51E–.05**	**15–12**	**4.6b,3.8s**	**132**	**1-146**
NIED	IV	07 06 34 00	37.80N	142.50E	20	4.2W,3.8s		¶16413298
IDC	IV	07 06 34 19.9–.60	37.89N	142.51E	0	4.4,4.3		
JMA	IV	07 06 34 21.0–.20	37.85N	142.53E	16–3	4.4,4.3		
ISCJB	IV	07 06 34 21.1–1.0	37.91N–.03	142.59E–.04	22–6	4.5b,3.7s		
MOS	IV	07 06 34 23.5–1.1	38.03N	142.53E	34	4.7b,3.7s		
NEIC	IV	07 06 34 24.6–1.5	37.99N	142.44E	28–10	4.6b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ17.00000°,λ63.00000°. NP2:ϕ_s32.00000°,δ75.00000°,λ98.00000°. $M_0$2.46000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=13.1km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=38.2.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=100.5.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.5km az=118.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 06 47 57.1–1.8**	**37.43N–.04**	**141.68E–.07**	**4–10**	**4.1b,3.7s**	**46**	**1-90**
NIED	IV	07 06 47 00	37.50N	141.70E	11	3.9W,3.7s		¶16512212
IDC	IV	07 06 47 56.3–1.1	37.44N	141.69E	0	4.1,4.0		
ISCJB	IV	07 06 47 57.2–1.0	37.42N–.04	141.80E–.06	18–6	4.1b,3.6s		
JMA	IV	07 06 47 59.0–.20	37.45N	141.70E	26–2	4.1,3.6s		
NEIC	IV	07 06 47 59.5–3.2	37.47N	141.69E	19–20	4.3b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ69.00000°,λ173.00000°. NP2:ϕ_s104.00000°,δ84.00000°,λ21.00000°. $M_0$6.91000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=18.3km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.2km az=33.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.4km az=132.0.

(164) Off east coast of South Island

ISC	**IV**	**07 07 16 14.4–2.0**	**42.26S–.04**	**177.59E–.05**	**25–13**	**5.0b,4.0s**	**378**	**2-177**
IDC	IV	07 07 16 10.0–.48	42.18S	177.68E	0	5.7L,4.8		¶16413299
GCMT	IV	07 07 16 11.2–.50	42.20S	177.92E	28–0	4.9W,4.8		
NEIC	IV	07 07 16 11.2–.25	42.24S	177.64E	10	5.2L,5.1b		
BJI	IV	07 07 16 12.3	42.20S	177.50E	14	5.7b,5.6b		
ISCJB	IV	07 07 16 13.0–.29	42.23S–.02	177.49E–.03	33	5.0b,4.1s		
MOS	IV	07 07 16 13.8–1.5	42.25S	177.49E	30	5.0b,4.1s		
WEL	IV	07 07 16 15.7–.23	42.22S	177.43E	33	5.2L,4.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=16.3km az=45.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s55,c68; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.11±.18 $M_{\theta\theta}$2.32±.14; $M_{\phi\phi}$0.79±.10; $M_{r\theta}$-0.54±.19; $M_{\theta\phi}$0.69±.10; $M_{\phi r}$-0.72±.16; Best double couple: NP1:ϕ_s61.00000°,δ53.00000° ,λ-98.00000°. NP2:ϕ_s255.00000°,δ38.00000°,λ-79.00000°. Principal axes: T 2.6920,Plg8.0000°,Azm157.0000°; N 0.5780,Plg7.0000°,Azm66.0000° ; P -3.2690,Plg80.0000°,Azm295.0000° $M_0$2.98000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.5km az=106.0. Felt at Wellington. Moment Tensor Solution. s26 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.44 $M_{\theta\theta}$0.84 $M_{\phi\phi}$0.60 $M_{r\theta}$-0.13 $M_{\theta\phi}$0.30 $M_{\phi r}$-0.11 Best double couple: NP1:ϕ_s236.00000°,δ41.00000°,λ-89.00000°. NP2: ϕ_s55.00000°,δ49.00000°,λ-91.00000°. Principal axes: T 1.0500,Plg4.0000°,Azm146.0000° ; N 0.4000,Plg0.0000°,Azm56.0000°; P -1.4500,Plg86.0000°,Azm319.0000° $M_0$1.30000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=25.2.
MOS Error ellipse: s-maj=21.9km s-min=12.7km az=129.1.
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=90.0. Felt from Taupo to Canterbury, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 08 25 02.2–1.5**	**37.62N–.04**	**141.91E–.05**	**7–8**	**4.3b**	**110**	**1-146**
NIED	IV	07 08 25 00	37.60N	141.90E	14	4.0W		¶600579849
ISCJB	IV	07 08 25 02.3–.84	37.62N–.03	141.96E–.04	18–5	4.3b,3.3s		
JMA	IV	07 08 25 03.7–.20	37.63N	141.89E	24–3	4.3,3.3s		
MOS	IV	07 08 25 04.6–1.4	37.72N	142.05E	37	4.4b,3.3s		
NEIC	IV	07 08 25 07.2–.75	37.66N	141.86E	38–7	4.5b,3.3s		
IDC	IV	07 08 25 07.5–2.3	37.61N	141.79E	42–22	4.1,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ31.00000°,λ-72.00000°. NP2:ϕ_s157.00000°,δ60.00000°,λ-101.00000°. $M_0$1.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=28.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=6.5km az=89.6.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=123.0.
IDC Error ellipse: s-maj=18.3km s-min=13.7km az=96.0.

(502) Arkansas

ISC	**IV**	**07 10 03 34.0–1.4**	**35.25N–.03**	**92.36W–.04**	**4–12**		**38**	**1-5**
NEIC	IV	07 10 03 34.6	35.24N	92.36W	3	2.5		¶16577717

ISC Event type fe.
NEIC Event type fe. Felt at Conway and Greenbrier. After CERI.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 10 52 13.3–.71**	**35.59N–.04**	**140.73E–.05**	**45–6**	**4.4b,3.9s**	**153**	**0-148**
NIED	IV	07 10 52 00	35.70N	140.70E	47	4.8W,3.9s		¶16413335
BJI	IV	07 10 52 08.1	35.45N	140.84E	36	4.9b,4.6b		
MOS	IV	07 10 52 10.1–1.1	35.58N	140.73E	33	4.5b,4.6b		
NEIC	IV	07 10 52 12.5–.29	35.61N	140.61E	35	4.8b,4.6b		
ISCJB	IV	07 10 52 12.9–.38	35.64N–.03	140.69E–.04	59–3	4.4b,3.9s		
JMA	IV	07 10 52 13.7–.10	35.74N	140.61E	48–1	3.9,3.9s		
IDC	IV	07 10 52 15.0–1.5	35.59N	140.51E	60–15	4.2,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ21.00000°,λ94.00000°. NP2:ϕ_s11.00000°,δ69.00000°,λ88.00000°. $M_0$1.60000×10^{16}
MOS Error ellipse: s-maj=9.5km s-min=6.1km az=110.5.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=6.1km az=89.0. Recorded [3 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.9km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s10.00000°,δ75.00000°,λ90.00000°. NP2: ϕ_s190.00000°,δ15.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm280.0000° ; N Plg0.0000°,Azm10.0000°; P Plg30.0000°,Azm100.0000°
IDC Error ellipse: s-maj=14.1km s-min=9.1km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 11 36 01.8–1.8**	**35.87N–.04**	**140.91E–.10**	**30–13**	**3.9b,2.9s**	**30**	**0-148**
NIED	IV	07 11 36 00	35.90N	140.90E	44	4.2W,2.9s		**¶17200103**
ISCJB	IV	07 11 36 01.7–.57	35.84N–.05	140.90E–.08	46–5	3.9b,3.1s		
JMA	IV	07 11 36 02.5–.10	35.87N	140.85E	38–1	4.1,3.1s		
IDC	IV	07 11 36 04.2–2.0	35.79N	140.82E	55–19	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ2.00000°,λ60.00000°. NP2:ϕ_s352.00000°,δ88.00000°,λ91.00000°. $M_0$2.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.6km az=166.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.2km az=84.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 11 47 24.7–2.0**	**38.32N–.05**	**142.09E–.08**	**26–14**	**3.7b**	**26**	**1-62**
ISCJB	IV	07 11 47 24.5–1.2	38.29N–.04	142.1E–.10	41–11	3.6b		**¶16705912**
JMA	IV	07 11 47 24.8–.20	38.34N	142.08E	32–2	4.0		
IDC	IV	07 11 47 28.5–2.8	38.31N	142.05E	60–28	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=6.5km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.0km s-min=15.0km az=100.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 11 48 22.3–.52**	**39.10N–.05**	**142.46E–.06**	**39–2**	**4.2b,3.8s**	**111**	**1-149**
NIED	IV	07 11 48 00	39.10N	142.40E	35	4.3W,3.8s		**¶17200105**
BJI	IV	07 11 48 16.0	38.98N	143.04E	47	4.7b,4.7b		
MOS	IV	07 11 48 20.8–1.1	39.19N	142.38E	39	4.5b,4.7b		
ISCJB	IV	07 11 48 21.0–.67	39.11N–.03	142.40E–.05	42–5	4.2b,3.8s		
JMA	IV	07 11 48 21.1–.10	39.11N	142.37E	31–1	4.4,3.8s		
NEIC	IV	07 11 48 22.4–.48	39.08N	142.38E	35	4.6b,3.8s		
IDC	IV	07 11 48 25.1–2.5	39.09N	142.27E	61–22	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ22.00000°,λ-131.00000°. NP2:ϕ_s191.00000°,δ73.00000°,λ-75.00000°. $M_0$3.10000×10^{15}
MOS Error ellipse: s-maj=8.8km s-min=6.6km az=90.4.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=22.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.4km az=129.0.
IDC Error ellipse: s-maj=16.6km s-min=12.4km az=119.0.

(227) Eastern Honshu

JMA	**IV**	**07 12 03 45.8**	**39.20N**	**141.87E**	**57–1**	**3.6**	**¶600579951**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 12 10 31.9–1.8**	**38.37N–.05**	**142.16E–.07**	**19–5**	**3.5b**	**16**	**1-58**
NIED	IV	07 12 10 00	38.50N	142.20E	35	3.5W		**¶17200109**
IDC	IV	07 12 10 29.4–1.7	38.18N	142.80E	0	3.7,3.6		
ISCJB	IV	07 12 10 30.0–1.7	38.31N–.05	142.32E–.09	18–11	3.5b,3.6		
JMA	IV	07 12 10 32.6–.10	38.45N	142.23E	28–2	4.0,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ16.00000°,λ-32.00000°. NP2:ϕ_s280.00000°,δ82.00000°,λ-104.00000°. $M_0$2.32000×10^{14}
IDC Error ellipse: s-maj=44.5km s-min=24.8km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=8.4km az=14.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(261) Borneo

ISC	**IV**	**07 12 34 27.3–.64**	**1.35N–.06**	**118.08E–.06**	**32**	**3.9b**	**27**	**3-82**
IDC	IV	07 12 34 22.3–.73	1.44N	118.23E	0	4.5L,4.3		**¶17200113**
ISCJB	IV	07 12 34 25.2–.46	1.32N–.05	118.05E–.07	32	4.0b,3.0s		
NEIC	IV	07 12 34 27.4–.47	1.34N	118.13E	35	4.1b,3.0s		
DJA	IV	07 12 34 28.8–.40	1N–3.0	118E–4.0	52–77	5.0b,4.7b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Tanjungredep.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 13 08 43.5–.81**	**38.64N–.06**	**142.17E–.08**	**41**	**3.8b**	**26**	**1-68**
NIED	IV	07 13 08 00	38.70N	142.10E	38	4.0W		**¶17200117**
ISCJB	IV	07 13 08 41.7–.61	38.68N–.06	142.24E–.07	41	3.8b		
JMA	IV	07 13 08 43.8–.10	38.67N	142.11E	42–2	3.8		
IDC	IV	07 13 08 45.4–2.5	38.68N	142.11E	57–23	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ32.00000°,λ-72.00000°. NP2:ϕ_s213.00000°,δ60.00000°,λ-101.00000°. $M_0$1.09000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.5km az=143.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=14.4km az=91.0.

(61) Chiapas

ISC	**IV**	**07 13 11 23.4–.28**	**17.27N–.03**	**94.14W–.03**	**165–2**	**6.0b**	**2141**	**1-159**
IDC	IV	07 13 11 18.9–2.2	17.41N	93.95W	121–19	5.9,5.8		**¶602546058**
MOS	IV	07 13 11 19.5–1.1	17.38N	93.93W	131	6.1b,6.0s		
GCMT	IV	07 13 11 22.4–.10	17.28N	94.12W	154–0	6.7W,6.0s		
MEX	IV	07 13 11 22.0–2.3	17.22N	94.32W	171–24	6.7,6.0s		
NEIC	IV	07 13 11 22.4	17.21N	94.34W	166	6.7,6.6W		
ISCJB	IV	07 13 11 22.7–.18	17.43N–.01	94.06W–.01	163–1	6.0b,6.6W		
BJI	IV	07 13 11 23.0	17.45N	93.90W	160	6.0b,6.6W		
NEIC	IV	07 13 11 24.0–.00	17.43N	93.78W	167	6.0b,6.6W		
CASC	IV	07 13 11 25.5–3.3	17.05N	93.89W	20–277	6.5b,5.6		

ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=7.0km az=56.0.
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=91.6.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c376; s139,c647;Duration: 5^{s}5 Moment tensor: Scale 10^{19} Nm; M_{rr}-0.56±.01 $M_{\theta\theta}$-0.29±.01; $M_{\phi\phi}$0.85±.01; $M_{r\theta}$0.91±.01; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$-0.62±.01; Best double couple: NP1:ϕ_s307.00000°,δ76.00000°,λ-119.00000°. NP2:ϕ_s194.00000° ,δ32.00000°,λ-27.00000°. Principal axes: T 1.5350,Plg26.0000°,Azm60.0000° ; N -0.1810,Plg28.0000°,Azm315.0000°; P -1.3540,Plg50.0000°,Azm185.0000° $M_0$1.44400×10^{19}
MEX Error ellipse: s-maj=14.7km s-min=13.6km az=-1.0.
NEIC Event type fe. Felt [V] at Cordoba and Tuxtla Gutierrez; [IV] at Coatzacoalcos, Huatulco, Jalapa, Minatitlan and Tehuacan; [III] at Coatepec, Oaxaca, Puebla, Puerto Escondido, San Cristobal de Las Casas and Villahermosa; [II] at Boca del Rio, Cuernavaca and Mexico. Felt [II] at Antigua Guatemala, Guatemala and Quetzaltenango, Guatemala. Felt widely in southern Mexico and in western Guatemala. Depth from broadband displacement seismograms. Energy computed from BB mechanism. After MEX. Moment Tensor Solution. $M_0$1.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000° ,δ77.00000°,λ-110.00000°. NP2:ϕ_s189.00000°,δ24.00000°,λ-35.00000°. Principal axes: T 1.1400,Plg29.0000°,Azm58.0000°; N -0.0400,Plg19.0000°,Azm317.0000° ; P -1.1000,Plg54.0000°,Azm197.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ10.00000°,λ-90.00000°. NP2: ϕ_s310.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm40.0000° ; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm220.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.5km az=139.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ76.00000° ,λ-113.00000°. NP2:ϕ_s183.00000°,δ27.00000°,λ-31.00000°. Principal axes: T 1.1700,Plg27.0000°,Azm50.0000°; N -0.0700,Plg23.0000°,Azm307.0000° ; P -1.1000,Plg52.0000°,Azm182.0000°
CASC Error ellipse: s-maj=27.8km s-min=219.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 13 46 24.8–1.5**	**36.62N–.04**	**141.12E–.05**	**12–9**	**3.9b**	**47**	**0-147**
IDC	IV	07 13 46 22.9–.60	36.59N	141.16E	0	3.9,3.9		**¶16577723**
ISCJB	IV	07 13 46 24.3–.97	36.58N–.03	141.23E–.06	22–6	3.8b,3.9		
JMA	IV	07 13 46 25.4–.10	36.63N	141.16E	34–1	3.9,3.9		
NEIC	IV	07 13 46 28.1–.30	36.56N	141.08E	35	4.5b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=14.1km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.8km az=19.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.0km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 32 44.1–.30**	**38.25N–.02**	**141.73E–.02**	**53–2**	**7.0s,6.8b**	**2736**	**0-164**
NIED	IV	07 14 32 00	38.20N	142.00E	68	7.1W,6.8b		**¶16413596**
BJI	IV	07 14 32 38.6	38.20N	141.90E	40	7.2,7.1s		
NEIC	IV	07 14 32 41.0–.00	38.25N	142.04E	49	7.2,7.1s		
MOS	IV	07 14 32 42.5–.96	38.29N	141.71E	49	7.3s,7.0b		
NEIC	IV	07 14 32 43.3–.09	38.28N	141.59E	42	7.1,7.1W		
JMA	IV	07 14 32 43.4–.10	38.20N	141.92E	66–1	7.2,7.1W		
GCMT	IV	07 14 32 43.3–.10	38.32N	141.85E	53–0	7.1W,7.1W		
ISCJB	IV	07 14 32 44.3–.24	38.21N–.01	141.69E–.01	63–2	6.8b,7.1W		
IDC	IV	07 14 32 48.1–1.6	38.25N	141.71E	88–13	6.9s,6.9		
NEIC	IV	07 14 33 01.5–.00	38.46N	141.66E	51	6.9s,6.9		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ40.00000°,λ81.00000°. NP2:ϕ_s211.00000°,δ50.00000°,λ97.00000°. $M_0$4.74000×10^{19}
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{19}Nm; M_{rr}5.92 $M_{\theta\theta}$-1.85 $M_{\phi\phi}$-4.06 $M_{r\theta}$-1.43 $M_{\theta\phi}$-1.22 $M_{\phi r}$-0.44 Best double couple: NP1:ϕ_s213.00000° ,δ51.00000°,λ101.00000°. NP2:ϕ_s17.00000°,δ40.00000°,λ77.00000°. Principal axes: T 6.1700,Plg80.0000°,Azm172.0000°; N -1.4800,Plg8.0000°,Azm26.0000° ; P -4.7000,Plg5.0000°,Azm295.0000° $M_0$5.60000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=105.3. Fault plane solution: P-wave C186, D37 . Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s216.00000°,δ61.00000°,λ118.00000°. NP2: ϕ_s349.00000°,δ39.00000°,λ50.00000°. Principal axes: T Plg63.0000°,Azm173.0000° ; N Plg24.0000°,Azm22.0000°; P Plg12.0000°,Azm286.0000° $M_0$5.40000×10^{19}
NEIC Event type de. Error ellipse: s-maj=3.0km s-min=2.2km az=140.0. Two people killed, 132 injured and several roads damaged in the Ishinomaki-Onagawa area. One person died in Yamagata when a power outage interrupted oxygen supply. Felt [VII] at Sendai, [V] at Misawa and [IV] in the Tokyo-Yokohama area. Felt [V] at Sapporo, Hokkaido. Felt widely in central and northern Honshu and in southern Hokkaido. Felt [II] at Yuzhno-Kuril'sk, Kuril Islands. Recorded [6U JMA] in Miyagi, Honshu. Complex earthquake, with at least one event occurring about 2 seconds after the onset observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$5.90000×10^{19} Moment Tensor Solution. s11 Moment tensor: Scale 10^{19}Nm; M_{rr}5.97 $M_{\theta\theta}$-2.39 $M_{\phi\phi}$-3.58 $M_{r\theta}$-0.32 $M_{\theta\phi}$-0.96 $M_{\phi r}$-1.43 Best double couple: NP1:ϕ_s205.00000°,δ53.00000°,λ87.00000°. NP2:ϕ_s31.00000° ,δ37.00000°,λ94.00000°. Principal axes: T 6.1800,Plg82.0000°,Azm99.0000° ; N -1.8800,Plg3.0000°,Azm207.0000°; P -4.3100,Plg8.0000°,Azm298.0000° $M_0$5.50000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ25.00000°,λ90.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm115.0000°; N Plg0.0000°,Azm0.0000°; P Plg20.0000° ,Azm295.0000°
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c387; s143,c682;Duration: 8^{s}8 Moment tensor: Scale 10^{19} Nm; M_{rr}5.99±.02 $M_{\theta\theta}$-1.43±.01; $M_{\phi\phi}$-4.55±.02; $M_{r\theta}$-1.11±.03; $M_{\theta\phi}$-1.65±.01; $M_{\phi r}$-1.25±.03; Best double couple: NP1:ϕ_s208.00000°,δ53.00000°,λ95.00000°. NP2:ϕ_s19.00000° ,δ37.00000°,λ83.00000°. Principal axes: T 6.2480,Plg81.0000°,Azm142.0000° ; N -0.7570,Plg4.0000°,Azm25.0000°; P -5.4810,Plg8.0000°,Azm294.0000° $M_0$5.86500×10^{19}
ISCJB Event type de. Error ellipse: s-maj=2.1km s-min=1.6km az=154.4.
IDC Error ellipse: s-maj=9.5km s-min=6.3km az=88.0.
NEIC Event type se. Moment Tensor Solution. s151 Moment tensor: Scale 10^{19}Nm; M_{rr}6.49 $M_{\theta\theta}$-1.64 $M_{\phi\phi}$-4.85 $M_{r\theta}$-1.02 $M_{\theta\phi}$-1.76 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s210.00000° ,δ49.00000°,λ98.00000°. NP2:ϕ_s18.00000°,δ42.00000°,λ81.00000°. Principal axes: T 6.6100,Plg83.0000°,Azm174.0000°; N -0.9400,Plg6.0000°,Azm25.0000° ; P -5.6700,Plg4.0000°,Azm294.0000° $M_0$6.10000×10^{19}

(228) Near east coast of eastern Honshu

JMA	**IV**	**07 14 36 40.4–.10**	**38.38N**	**141.92E**	**58–3**	**4.5**	**¶600579996**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**07 14 37 52.9–.10**	**38.45N**	**141.95E**	**57–2**	**4.5**	**¶600580002**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**07 14 40 24.0–.10**	**38.24N**	**141.90E**	**65–3**	**4.7**	**¶600580003**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**07 14 45 05.6–.10**	**38.34N**	**141.87E**	**64–3**	**3.5**	**¶600580006**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 46 23.5–2.0**	**38.21N–.05**	**141.96E–.10**	**28–14**		**20**	**1-58**
IDC	IV	07 14 46 16.7–4.0	38.31N	142.62E	0	4.0,3.9		**¶17200124**
JMA	IV	07 14 46 25.3–.10	38.25N	141.84E	57–3	4.2,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=68.7km s-min=39.7km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 47 22.2–1.4**	**38.26N–.04**	**142.03E–.08**	**59–11**	**4.3b**	**52**	**1-76**
ISCJB	IV	07 14 47 21.9–.76	38.29N–.04	141.97E–.08	70–5	4.2b		**¶16577724**
JMA	IV	07 14 47 23.3–.10	38.30N	141.92E	58–4	4.8		
IDC	IV	07 14 47 25.1–2.5	38.26N	141.86E	80–22	4.3,4.1		
NEIC	IV	07 14 47 25.0–1.9	38.18N	141.83E	83–16	4.7b,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.5km az=14.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=15.3km az=80.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=12.6km az=66.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 49 35.3–1.1**	**38.14N–.04**	**141.83E–.07**	**61–10**	**4.6b**	**79**	**1-150**
ISCJB	IV	07 14 49 34.6–.60	38.13N–.03	141.80E–.07	69–4	4.5b		**¶16506241**
JMA	IV	07 14 49 35.1–.10	38.14N	141.82E	59–3	4.6		
NEIC	IV	07 14 49 36.8–.72	38.12N	141.74E	74–7	4.6b		
IDC	IV	07 14 49 37.1–1.9	38.16N	141.74E	74–17	4.6,4.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.5km az=11.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.5km az=112.0. Recorded [3 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=13.6km s-min=9.9km az=106.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**07 14 51 38.8–.10**	**38.38N**	**141.86E**	**60–3**	**4.2**	**¶600580007**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 53 14.3–1.3**	**38.39N–.05**	**141.92E–.09**	**58–11**	**4.2b**	**49**	**1-146**
ISCJB	IV	07 14 53 13.3–.76	38.38N–.04	141.92E–.09	65–5	4.1b		**¶16506242**
JMA	IV	07 14 53 13.8–.20	38.36N	141.90E	59–4	4.6		
NEIC	IV	07 14 53 16.5–1.1	38.33N	141.85E	80–10	4.2b		
IDC	IV	07 14 53 17.0–2.6	38.39N	141.79E	81–23	4.2,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.7km az=16.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.2km az=64.0.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=82.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 14 58 18.9–2.0**	**38.30N–.08**	**142.0E–.10**	**62–14**	**4.0b**	**17**	**1-46**
ISCJB	IV	07 14 58 18.5–1.4	38.32N–.06	141.9E–.10	74–7	4.0b		**¶17200126**
JMA	IV	07 14 58 19.5–.10	38.32N	141.89E	64–2	4.0		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=19.7km s-min=7.1km az=25.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 07 14 59 15.5–1.5 38.30N–.04 141.99E–.08 34–3 3.9b 27 1-58
IDC IV 07 14 59 07.5–2.6 38.60N 142.74E 0 4.0,4.0 **¶600580009**
JMA IV 07 14 59 18.1–.10 38.40N 141.85E 51–3 3.9,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=65.4km s-min=24.5km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 15 01 04.2–1.0 38.25N–.05 141.96E–.08 61–9 3.9b 37 1-89
ISCJB IV 07 15 01 03.5–.81 38.28N–.04 141.89E–.09 70–6 3.9b **¶17200127**
JMA IV 07 15 01 04.4–.10 38.30N 141.87E 63–3 4.4
IDC IV 07 15 01 05.8–2.9 38.27N 141.86E 75–25 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.7km az=13.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=15.3km az=71.0.
(228) Near east coast of eastern Honshu
ISC IV 07 15 06 48.3–.70 38.38N–.04 141.88E–.07 62–6 4.3b 87 1-146
NEIC IV 07 15 06 45.6–1.1 38.07N 142.37E 72–10 4.7b **¶16455871**
ISCJB IV 07 15 06 46.6–.63 38.38N–.03 141.96E–.06 62–4 4.3b
JMA IV 07 15 06 47.9–.10 38.38N 141.85E 64–2 4.3
IDC IV 07 15 06 48.6–.74 38.39N 141.79E 66–6 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=10.3km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.8km az=19.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=12.0km az=116.0.
(162) South Island
WEL IV 07 15 12 04.6–.09 43.60S 172.64E 8–0 3.6L
¶16414395
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC IV 07 15 14 55.7–1.7 36.60N–.05 141.14E–.07 15–11 4.2b 21 0-60
ISCJB IV 07 15 14 53.4–1.6 36.54N–.06 141.35E–.09 15–12 4.2b **¶16577727**
JMA IV 07 15 14 56.0–.10 36.58N 141.16E 32–2 3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=8.7km az=24.9.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 07 15 14 57.5–1.4 38.21N–.06 141.87E–.08 52–12 3.9b 53 1-146
IDC IV 07 15 14 46.8–.72 37.49N 141.79E 0 4.1,3.9 **¶600580016**
NEIC IV 07 15 14 51.5–.50 37.30N 141.75E 35 4.5b,3.9
ISCJB IV 07 15 14 57.8–.73 38.25N–.05 141.79E–.07 67–5 3.9b,3.9
JMA IV 07 15 14 58.3–.10 38.25N 141.81E 58–3 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=16.4km az=151.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.4km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.6km az=34.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 15 25 13.1–.62 38.17N–.04 141.87E–.05 64–5 4.4b 180 1-146
MOS IV 07 15 25 11.5–1.1 38.28N 141.90E 61 4.6b **¶16424638**
ISCJB IV 07 15 25 12.2–.45 38.20N–.03 141.88E–.04 72–3 4.3b
IDC IV 07 15 25 13.8–.72 38.22N 141.79E 67–6 4.3,4.2
JMA IV 07 15 25 13.2–.10 38.20N 141.85E 63–3 4.5,4.2
NEIC IV 07 15 25 14.3–.50 38.21N 141.84E 74–4 4.5b,4.2
ISC Event type se.
MOS Error ellipse: s-maj=8.7km s-min=5.9km az=87.9.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=31.2.
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=134.0.
(228) Near east coast of eastern Honshu
ISC IV 07 15 31 29.3–.72 38.33N–.04 141.91E–.06 62–6 4.4b 79 1-89
ISCJB IV 07 15 31 27.9–.62 38.31N–.03 141.96E–.06 66–4 4.2b **¶16577728**
NEIC IV 07 15 31 27.4–.86 38.22N 142.25E 70–9 4.6b
JMA IV 07 15 31 29.3–.10 38.31N 141.90E 58–3 4.2
IDC IV 07 15 31 29.6–.76 38.27N 141.90E 65–7 4.0,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.7km az=18.4.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=8.0km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.2km s-min=12.6km az=122.0.
(228) Near east coast of eastern Honshu
JMA IV 07 15 33 49.3–.10 38.41N 141.86E 55–2 3.5
¶600580026
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 15 46 04.1–1.6 38.14N–.05 142.1E–.10 48–17 3.4b 23 1-62
IDC IV 07 15 45 55.4–2.1 38.34N 142.74E 0 3.6,3.6 **¶17200130**
ISCJB IV 07 15 46 03.8–1.1 38.17N–.05 142.0E–.10 62–9 3.5b,3.6
JMA IV 07 15 46 05.7–.10 38.21N 141.90E 56–4 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=56.3km s-min=20.9km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=6.4km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(377) Spain
ISC IV 07 15 53 44.0–.47 37.60N–.02 2.46W–.01 9–2 3.7b 440 0-66
ISCJB IV 07 15 53 43.1–.34 37.76N–.02 2.56W–.01 0–1 3.7b **¶16413599**
IDC IV 07 15 53 43.8–1.8 37.65N 2.30W 0 3.6,3.5
INMG IV 07 15 53 45.0–1.5 37.51N 2.45W 4–2 3.7,3.6L
MDD IV 07 15 53 45.2–.25 37.50N 2.44W 10–0 3.6,3.6L
LDG IV 07 15 53 45.5–.11 37.48N 2.45W 2 3.6L,3.6L
SFS IV 07 15 53 45.0 37.52N 2.45W 1 3.4L,3.6L
CSEM IV 07 15 53 45.4–.13 37.60N 2.54W 10 4.0L,3.6L
IGIL IV 07 15 53 46.0 37.51N 2.45W 12 3.3L,3.6L
STR IV 07 15 53 55.6–.27 38.22N 2.12W 2 3.5L,3.6L
CRAAG IV 07 15 54 25.6 36.18N 0.82E 2.5L,3.6L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.2.
IDC Error ellipse: s-maj=34.1km s-min=17.9km az=33.0.
INMG Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=140.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=153.0. EMS : IV INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=1.4km az=141.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.7km az=154.0.
STR Event type ke.
(228) Near east coast of eastern Honshu
ISC IV 07 16 40 06.4–1.6 38.36N–.04 142.14E–.10 49–15 3.7b 37 1-89
ISCJB IV 07 16 40 06.4–.83 38.38N–.04 142.03E–.09 62–7 3.6b **¶17200134**
JMA IV 07 16 40 07.1–.10 38.41N 142.00E 57–3 4.0
IDC IV 07 16 40 09.0–2.6 38.30N 142.01E 75–25 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.8km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=15.6km az=92.0.
(228) Near east coast of eastern Honshu
ISC IV 07 16 44 20.7–1.7 38.43N–.04 142.0E–.10 47–16 3.6b 26 1-59
IDC IV 07 16 44 11.8–2.6 38.62N 142.72E 0 3.6,3.6 **¶17200135**
ISCJB IV 07 16 44 20.9–.97 38.43N–.04 141.9E–.10 60–9 3.4b,3.6
JMA IV 07 16 44 21.8–.10 38.44N 141.87E 56–3 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=62.1km s-min=27.2km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.4km az=15.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 17 11 46.3–.57 38.36N–.04 141.91E–.06 55–5 3.9b 62 1-146
ISCJB IV 07 17 11 45.4–.68 38.39N–.04 141.89E–.08 61–5 3.9b **¶600580108**
JMA IV 07 17 11 46.0–.10 38.39N 141.88E 53–2 4.2
IDC IV 07 17 11 46.3–.59 38.34N 141.77E 55–4 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=4.9km az=20.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.4km az=117.0.
(228) Near east coast of eastern Honshu
ISC IV 07 17 24 50.7–1.3 38.37N–.04 141.98E–.08 53–11 4.0b 47 1-146
ISCJB IV 07 17 24 50.6–.69 38.41N–.04 141.90E–.08 67–5 3.8b **¶17200141**
JMA IV 07 17 24 51.7–.10 38.42N 141.87E 57–3 4.2
IDC IV 07 17 24 52.7–2.4 38.42N 141.81E 68–22 3.9,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.1km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=13.4km az=102.0.
(228) Near east coast of eastern Honshu
ISC IV 07 17 42 19.2–.73 38.20N–.04 141.93E–.06 68–6 4.0b 56 1-89
ISCJB IV 07 17 42 17.6–.63 38.23N–.03 141.94E–.07 69–4 3.9b **¶16455875**
JMA IV 07 17 42 18.7–.10 38.23N 141.91E 59–3 4.1
IDC IV 07 17 42 19.9–.71 38.18N 141.84E 74–7 4.1,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=4.8km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=11.5km az=127.0.
(228) Near east coast of eastern Honshu
ISC IV 07 18 09 58.6–1.5 38.39N–.05 141.99E–.10 49–14 3.5b 27 1-62
ISCJB IV 07 18 09 58.1–.85 38.42N–.04 141.94E–.10 62–7 3.5b **¶17200144**
JMA IV 07 18 09 59.5–.10 38.43N 141.87E 52–3 4.0
IDC IV 07 18 09 59.2–3.0 38.42N 142.12E 57–28 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.9km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=17.2km az=92.0.
(228) Near east coast of eastern Honshu
ISC IV 07 18 35 23.2–.87 38.29N–.04 141.77E–.07 54–8 3.7b 37 1-89
ISCJB IV 07 18 35 22.7–.71 38.30N–.04 141.68E–.09 67–6 3.6b **¶17200147**
IDC IV 07 18 35 23.5–.93 38.29N 141.66E 59–8 3.8,3.8
JMA IV 07 18 35 23.5–.10 38.30N 141.66E 59–2 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.6km az=8.8.
IDC Error ellipse: s-maj=20.3km s-min=15.0km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 18 52 03.8–1.6 36.14N–.05 141.10E–.09 20–11 3.5b 17 0-60
ISCJB IV 07 18 52 03.5–1.4 36.09N–.05 141.2E–.10 34–12 3.7b **¶600580182**
JMA IV 07 18 52 03.5–.10 36.07N 141.13E 40–1 3.6
IDC IV 07 18 52 09.1–3.6 35.68N 140.46E 40–31 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=7.5km az=169.6.
JMA Event type fe.
IDC Error ellipse: s-maj=37.8km s-min=18.8km az=72.0.
(228) Near east coast of eastern Honshu
ISC IV 07 19 01 03.6–1.6 38.52N–.06 142.0E–.10 41 4.0b 10 1-62
JMA IV 07 19 01 01.7–.30 38.50N 142.09E 36 4.0 **¶17200150**
ISCJB IV 07 19 01 02.2–1.2 38.50N–.06 142.1E–.10 41 3.9b
IDC IV 07 19 01 09.1–2.4 37.11N 140.42E 0 4.1,3.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=8.2km az=2.0.
IDC Error ellipse: s-maj=57.5km s-min=30.0km az=50.0.
(228) Near east coast of eastern Honshu
ISC IV 07 19 14 18.2–1.7 38.28N–.06 141.9E–.10 57–18 3.9b 20 1-62
ISCJB IV 07 19 14 17.6–1.1 38.28N–.05 141.8E–.10 71–11 3.8b **¶17200154**
IDC IV 07 19 14 17.3–2.5 37.16N 142.30E 0 4.0,3.9b
JMA IV 07 19 14 18.4–.10 38.27N 141.84E 59–3 4.1,3.9b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=18.6km s-min=7.4km az=13.8.
IDC Error ellipse: s-maj=66.7km s-min=26.3km az=60.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 19 34 00.0–2.0 38.36N–.04 142.25E–.07 13–11 3.9b 30 1-62
JMA IV 07 19 34 00.9–.40 38.41N 142.32E 32 4.0 **¶17200156**
IDC IV 07 19 34 04.9–2.8 38.35N 142.18E 46–28 3.8,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=15.5km az=97.0.
(456) Montana
ISC IV 07 19 40 58.4–1.0 45.09N–.06 106.89W–.05 0 15 2-9
NEIC IV 07 19 40 58.4–1.5 45.38N 106.66W 0 2.7L **¶17200157**
IDC IV 07 19 40 59.5–1.1 44.81N 106.59W 0 3.6,3.4
ISC Event type sm.
NEIC Event type fm. Error ellipse: s-maj=24.9km s-min=18.9km az=143.0. 56 km [35 miles] S of Colstrip. Suspected Mining explosion.
IDC Error ellipse: s-maj=67.7km s-min=8.5km az=138.0.
(228) Near east coast of eastern Honshu
ISC IV 07 19 43 00.1–1.8 38.22N–.05 142.0E–.10 46–18 3.5b 28 1-62
IDC IV 07 19 42 51.4–2.2 38.42N 142.70E 0 3.7,3.6 **¶17200158**
ISCJB IV 07 19 43 00.2–1.0 38.24N–.04 141.9E–.10 63–9 3.5b,3.6
JMA IV 07 19 43 01.5–.10 38.25N 141.85E 55–3 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=55.9km s-min=22.4km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=6.6km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(227) Eastern Honshu
ISC IV 07 19 46 09.7–1.0 36.05N–.05 139.98E–.06 49–9 3.6b 19 0-56
IDC IV 07 19 46 01.2–2.4 36.25N 140.56E 0 4.0L,3.7 **¶17200159**
ISCJB IV 07 19 46 09.0–.72 36.03N–.05 139.99E–.07 56–6 3.5b,3.7
JMA IV 07 19 46 10.5–.10 36.05N 139.93E 44–1 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=60.1km s-min=23.5km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=8.2km az=153.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s64.00000°,δ74.00000°,λ92.00000°. NP2: ϕ_s236.00000°,δ16.00000°,λ82.00000°. Principal axes: T Plg61.0000°,Azm337.0000° ; N Plg2.0000°,Azm243.0000°; P Plg29.0000°,Azm152.0000°
(228) Near east coast of eastern Honshu
ISC IV 07 19 53 07.7–1.8 38.18N–.05 142.1E–.10 51–17 3.8b 29 1-62
IDC IV 07 19 53 06.3–7.6 38.29N 142.39E 49–51 3.8,3.7 **¶600580227**
ISCJB IV 07 19 53 07.5–1.1 38.21N–.04 142.0E–.10 64–8 3.7b,3.7
JMA IV 07 19 53 09.3–.10 38.23N 141.88E 63–3 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=103.3km s-min=18.5km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.7km az=9.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 07 20 17 36.8–1.8 37.57N–.05 141.60E–.09 31–12 4.0b 19 1-74
IDC IV 07 20 17 28.8–5.6 37.91N 142.07E 0 3.9,3.8 **¶17200163**
JMA IV 07 20 17 39.0–.10 37.51N 141.47E 42–1 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=106.0km s-min=53.2km az=1.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 07 20 41 00.3–2.0 38.23N–.05 142.1E–.10 51–17 3.8b 24 1-58
IDC IV 07 20 40 51.6–2.7 38.43N 142.74E 0 3.8,3.8b **¶16577737**
NEIC IV 07 20 40 57.2–1.6 38.43N 142.52E 35 4.1b,3.8b
ISCJB IV 07 20 41 01.3–1.3 38.29N–.05 141.9E–.10 68–8 3.7b,3.8b
JMA IV 07 20 41 01.8–.10 38.28N 141.91E 61–4 3.9,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=66.5km s-min=27.9km az=68.0.
NEIC Event type se. Error ellipse: s-maj=32.0km s-min=19.3km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=17.5km s-min=7.1km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(731) North of Honduras

ISC	**IV**	**07 20 41 55.3–.28**	**17.15N–.04**	**85.19W–.04**	**35**	**5.3s,5.2b**	**916**	**4-175**
IDC	IV	07 20 41 50.2–.50	17.19N	85.06W	0	5.2,5.2s		**¶16414231**
MOS	IV	07 20 41 50.4–1.0	17.17N	85.06W	11	5.4b,5.4s		
NEIC	IV	07 20 41 51.5–.57	17.11N	85.08W	7–3	5.9W,5.8W		
GCMT	IV	07 20 41 51.5–.10	17.22N	85.17W	15	5.9W,5.8W		
ISCJB	IV	07 20 41 53.5–.13	17.17N–.02	85.17W–.02	33	5.3s,5.2b		
BJI	IV	07 20 41 54.5	17.20N	85.10W	20	5.9s,5.6		
NEIC	IV	07 20 41 54.0–.00	17.22N	85.09W	19	5.9s,5.6		

ISC Event type fe.
IDC Error ellipse: s-maj=17.3km s-min=10.3km az=55.0.
MOS Error ellipse: s-maj=8.3km s-min=4.6km az=103.5.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=207.0. Felt [II] at French Harbor and Roatan. Also felt at Arizona, Guanaja, Jose Santos Guardiola, La Ceiba and Sandy Bay. Felt at Dangriga, Belize and at Chetumal, Mexico. Also felt at Santa Ana, El Salvador. Moment Tension Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$1.84 $M_{r\theta}$0.18 $M_{\theta\phi}$8.22 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s84.00000°,δ79.00000°,λ2.00000°. NP2: ϕ_s354.00000°,δ88.00000°,λ169.00000°. Principal axes: T 8.6600,Plg9.0000°,Azm308.0000° ; N -0.1600,Plg79.0000°,Azm162.0000°; P -8.5000,Plg6.0000°,Azm39.0000° M_o8.60000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c156; s127,c280;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.10 $M_{\theta\theta}$-4.19±.10; $M_{\phi\phi}$3.83±.11; $M_{r\theta}$-0.61±.32; $M_{\theta\phi}$5.93±.08; $M_{\phi r}$3.39±.32; Best double couple: NP1: ϕ_s342.00000°,δ87.00000°,λ154.00000°. NP2:ϕ_s74.00000°,δ64.00000°,λ4.00000°. Principal axes: T 7.9780,Plg20.0000°,Azm295.0000°; N -0.0630,Plg64.0000°,Azm155.0000° ; P -7.9220,Plg15.0000°,Azm31.0000° M_o7.95000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=142.7.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.50 $M_{\theta\theta}$-5.70 $M_{\phi\phi}$6.20 $M_{r\theta}$0.20 $M_{\theta\phi}$2.60 $M_{\phi r}$1.80 Best double couple: NP1:ϕ_s326.00000° ,δ82.00000°,λ169.00000°. NP2:ϕ_s58.00000°,δ79.00000°,λ8.00000°. Principal axes: T 7.1000,Plg13.0000°,Azm281.0000°; N -0.9000,Plg76.0000°,Azm110.0000° ; P -6.2000,Plg1.0000°,Azm12.0000° M_o7.00000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 20 47 12.5–.48**	**37.07N–.04**	**141.24E–.05**	**51–4**	**4.2b,4.0s**	**144**	**0-147**
NIED	IV	07 20 47 00	37.10N	141.10E	56	4.5W,4.0s		**¶602553054**
BJI	IV	07 20 47 05.9	36.91N	141.28E	28	4.9b,4.8s		
MOS	IV	07 20 47 10.1–1.0	37.07N	141.08E	42	4.5b,4.8s		
ISCJB	IV	07 20 47 11.6–.43	37.08N–.03	141.18E–.05	58–3	4.3b,4.0s		
JMA	IV	07 20 47 12.9–.10	37.11N	141.10E	53–1	4.3,4.0s		
IDC	IV	07 20 47 13.3–.62	37.12N	141.00E	54–6	4.2,4.0		
NEIC	IV	07 20 47 15.2–.72	37.08N	141.04E	74–6	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ19.00000°,λ79.00000°. NP2:ϕ_s31.00000°,δ71.00000°,λ94.00000°. M_o5.56000×10^{15}
MOS Error ellipse: s-maj=9.4km s-min=5.6km az=94.1.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=23.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=8.5km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=95.0. Recorded [3 JMA] in Fukushima and Ibaraki.

(731) North of Honduras

ISC	**IV**	**07 21 06 04.0–.29**	**17.34N–.04**	**84.99W–.04**	**10**	**5.0b,4.8s**	**607**	**4-144**
CASC	IV	07 21 05 51.2–3.5	17.81N	83.72W	8	5.0b,4.5L		**¶16414233**
MOS	IV	07 21 06 02.3–.91	17.23N	85.01W	9	5.2b,4.5L		
ISCJB	IV	07 21 06 02.5–.15	17.22N–.02	85.11W–.02	10	4.9b,4.8s		
IDC	IV	07 21 06 02.7–.62	17.32N	84.93W	0	4.8,4.7		
NEIC	IV	07 21 06 03.9–1.4	17.15N	85.08W	8–9	5.0b,4.7		
BJI	IV	07 21 06 04.7	17.20N	85.10W	16	5.6s,5.5b		

ISC Event type fe.
CASC Error ellipse: s-maj=24.7km s-min=34.9km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=4.7km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=41.1.
IDC Error ellipse: s-maj=19.3km s-min=11.1km az=48.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=209.0. Felt at Guanaja.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 21 42 52.0–1.5**	**38.39N–.05**	**142.07E–.10**	**56–12**	**3.8b**	**44**	**1-146**
IDC	IV	07 21 42 44.5–.71	38.35N	141.97E	0	4.5s,4.5		**¶16525087**
NEIC	IV	07 21 42 50.0–.72	38.44N	142.23E	35	4.2b,4.5		
ISCJB	IV	07 21 42 51.7–.86	38.40N–.04	141.97E–.09	67–6	3.8b,4.5		
JMA	IV	07 21 42 52.8–.10	38.41N	141.91E	61–3	3.9,4.5		

ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=18.7km az=89.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=12.1km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.3km az=9.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 21 55 26.8–1.8**	**38.40N–.05**	**141.9E–.10**	**57–14**	**3.5b**	**23**	**1-58**
IDC	IV	07 21 55 16.8–2.6	38.64N	142.65E	0	4.1,4.1s		**¶17200171**
ISCJB	IV	07 21 55 26.5–1.2	38.40N–.05	141.9E–.10	68–9	3.4b,4.1s		
JMA	IV	07 21 55 26.8–.10	38.40N	141.91E	58–3	4.1,4.1s		

ISC Event type ke.
IDC Error ellipse: s-maj=66.3km s-min=30.4km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=7.1km az=11.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 21 57 47.3–2.1**	**38.17N–.07**	**142.0E–.10**	**50–19**		**23**	**1-58**
IDC	IV	07 21 57 38.0–3.1	38.29N	142.65E	0	3.6,3.6b		**¶17200172**
ISCJB	IV	07 21 57 47.0–1.3	38.18N–.05	142.0E–.10	63–11	3.5b,3.6b		
JMA	IV	07 21 57 48.0–.10	38.18N	141.88E	56–3	3.9,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=33.8km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=17.9km s-min=7.0km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(229) Off east coast of Honshu

ISC	**IV**	**07 22 02 18.2–.42**	**39.20N–.04**	**142.94E–.04**	**27–2**	**5.1b,4.9s**	**501**	**1-145**
NIED	IV	07 22 02 00	39.10N	143.00E	20	5.0W,4.9s		**¶600580318**
IDC	IV	07 22 02 13.7–.48	39.15N	142.98E	0	4.8,4.7		
JMA	IV	07 22 02 15.4–.20	39.10N	143.02E	8	5.0,4.7		
ISCJB	IV	07 22 02 16.0–.85	39.19N–.02	142.91E–.03	21–5	5.0b,4.8s		
BJI	IV	07 22 02 16.3	39.10N	142.90E	34	5.3b,5.1b		
MOS	IV	07 22 02 17.2–.91	39.31N	142.86E	27	5.4b,4.9s		
NEIC	IV	07 22 02 19.9–.61	39.14N	142.89E	41–5	5.1b,4.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ20.00000°,λ53.00000°. NP2:ϕ_s30.00000°,δ74.00000°,λ102.00000°. M_o3.55000×10^{16}
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=43.0.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=107.2.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.7km az=124.0.

(159) North Island

ISC	**IV**	**07 22 12 43.3–.89**	**39.66S–.03**	**174.42E–.03**	**143–5**	**3.5b**	**259**	**0-153**
ISCJB	IV	07 22 12 42.5–.32	39.64S–.02	174.39E–.03	139–3	3.4b		**¶16414396**
IDC	IV	07 22 12 42.7–1.6	39.60S	174.46E	112–20	3.8,3.6		
NEIC	IV	07 22 12 44.0	39.62S	174.44E	136	4.6,3.6		
WEL	IV	07 22 12 44.1–.18	39.62S	174.44E	135–1	4.6L,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.1km az=34.3.
IDC Error ellipse: s-maj=28.1km s-min=17.1km az=136.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt between Waikato, Manawatu and Taranaki, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 22 33 06.8–1.4**	**38.63N–.06**	**142.0E–.10**	**41**	**3.8b**	**23**	**1-73**
IDC	IV	07 22 32 58.5–2.5	38.79N	142.58E	0	3.8b,3.8		**¶16525089**
NEIC	IV	07 22 33 03.4–.77	38.75N	142.59E	35	4.1b,3.8		
ISCJB	IV	07 22 33 04.9–.94	38.64N–.05	142.11E–.10	41	3.8b,3.8s		
JMA	IV	07 22 33 07.2–.10	38.62N	141.92E	50–4	3.7,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=66.4km s-min=26.8km az=73.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=10.2km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.1km az=14.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 23 07 09.2–1.4**	**38.43N–.06**	**141.8E–.10**	**57–12**	**3.8b,3.5s**	**33**	**1-85**
IDC	IV	07 23 07 03.8–2.2	38.81N	141.82E	0	3.9,3.8b		**¶16525090**
ISCJB	IV	07 23 07 08.1–.72	38.44N–.04	141.86E–.08	65–6	3.8b,3.8b		
JMA	IV	07 23 07 08.3–.10	38.45N	141.88E	57–4	3.8,3.8b		
NEIC	IV	07 23 07 09.7–.75	38.46N	141.91E	62–8	4.3b,3.8b		

ISC Event type se.
IDC Error ellipse: s-maj=53.6km s-min=21.6km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.7km az=20.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=7.0km az=132.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 23 07 49.2–.45**	**35.51N–.04**	**141.01E–.06**	**33**	**4.3b**	**87**	**0-148**
IDC	IV	07 23 07 44.4–.64	35.49N	140.84E	0	4.3,4.3L		**¶16506244**
MOS	IV	07 23 07 45.9–.98	35.48N	141.12E	26	4.5b,4.3L		
ISCJB	IV	07 23 07 47.3–.33	35.55N–.03	141.13E–.05	33	4.3b,3.6s		
NEIC	IV	07 23 07 48.3–1.6	35.49N	140.97E	28–11	4.6b,3.6s		
JMA	IV	07 23 07 48.6–.10	35.56N	141.04E	36–1	3.9,3.6s		

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.0km az=88.0.
MOS Error ellipse: s-maj=10.4km s-min=6.2km az=109.2.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=24.1.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.8km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(502) Arkansas

ISC	**IV**	**07 23 11 09.3–.93**	**35.25N–.02**	**92.38W–.02**	**8–7**	**3.6b**	**328**	**0-44**
ISCJB	IV	07 23 11 08.3–.45	35.27N–.01	92.37W–.01	8–3	3.5b		**¶16414236**
NEIC	IV	07 23 11 09.0	35.25N	92.37W	6	4.0b,3.9W		
IDC	IV	07 23 11 09.4–.95	35.20N	92.30W	0	3.9,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.8km az=21.5.
NEIC Event type fe. Felt [IV] at Greenbrier, [III] at Quitman and Vilonia and [II] at Conway. Felt widely in central and northwestern Arkansas. Also felt in parts of southern Missouri and at Collierville, Tennessee. After CERI. Moment Tensor Solution. s25 Moment tensor: Scale 10^{14}Nm; M_{rr}0.42 $M_{\theta\theta}$5.03 $M_{\phi\phi}$-5.45 $M_{r\theta}$-1.53 $M_{\theta\phi}$4.67 $M_{\phi r}$-2.10 Best double couple: NP1: ϕ_s295.00000°,δ70.00000°,λ5.00000°. NP2:ϕ_s203.00000°,δ85.00000°,λ160.00000°. Principal axes: T 7.4900,Plg17.0000°,Azm157.0000°; N 0.0000,Plg69.0000°,Azm11.0000° ; P -7.4900,Plg11.0000°,Azm251.0000° M_o7.50000×10^{14}
IDC Error ellipse: s-maj=19.5km s-min=9.5km az=170.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**07 23 39 26.7–.59**	**38.88N–.06**	**142.09E–.07**	**51**	**4.3b**	**72**	**1-81**
ISCJB	IV	07 23 39 25.8–.41	38.91N–.04	142.03E–.05	51	4.2b		**¶602553049**
MOS	IV	07 23 39 27.4–.91	38.92N	141.96E	69	4.4b		
JMA	IV	07 23 39 27.3–.20	38.91N	141.91E	55–3	4.1		
IDC	IV	07 23 39 29.6–.88	38.86N	141.90E	74–5	4.2,3.9		
NEIC	IV	07 23 39 31.1–.79	38.82N	141.87E	89–7	4.4b,3.9		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.1km az=41.8.
MOS Error ellipse: s-maj=9.8km s-min=6.9km az=89.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=13.8km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.8km az=109.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 00 11 16.6–3.7**	**39.17N–.05**	**142.4E–.10**	**25–23**		**20**	**1-59**
IDC	IV	08 00 11 09.8–3.1	39.31N	143.12E	0	3.7,3.5		**¶17200179**
ISCJB	IV	08 00 11 16.6–1.9	39.19N–.04	142.4E–.10	24–9	3.5b,3.5		
JMA	IV	08 00 11 16.5–.20	39.18N	142.37E	27–3	4.0,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=70.1km s-min=32.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=5.9km az=12.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 00 28 51.6–1.5**	**38.38N–.05**	**142.08E–.09**	**51–13**	**4.2b**	**55**	**1-146**
NIED	IV	08 00 28 00	38.40N	142.00E	77	4.2W		**¶16525093**
IDC	IV	08 00 28 46.0–.78	38.72N	142.01E	0	4.3,4.2		
ISCJB	IV	08 00 28 52.0–.69	38.44N–.04	141.95E–.07	67–5	4.1b,4.2		
JMA	IV	08 00 28 52.2–.10	38.42N	141.98E	60–2	4.2,4.2		
NEIC	IV	08 00 28 54.2–.96	38.62N	141.90E	63–8	4.4b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ52.00000°,λ33.00000°. NP2:ϕ_s91.00000°,δ65.00000°,λ137.00000°. M_o2.08000×10^{15}
IDC Error ellipse: s-maj=21.3km s-min=15.7km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.6km az=21.2.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.4km az=138.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 00 32 55.5–1.1**	**38.84N–.06**	**142.4E–.20**	**35–10**	**3.6b**	**23**	**1-59**
JMA	IV	08 00 32 53.8–.20	38.78N	142.43E	31–5	3.6		**¶17200181**
ISCJB	IV	08 00 32 54.9–1.4	38.81N–.05	142.4E–.10	45–13	4.0s,3.6b		
IDC	IV	08 00 32 59.9–3.5	38.67N	142.29E	80–32	4.0s,4.0		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=8.3km az=4.2.
IDC Error ellipse: s-maj=27.1km s-min=22.1km az=88.0.

(229) Off east coast of Honshu

ISC	**IV**	**08 00 56 21.5–.44**	**36.84N–.05**	**142.18E–.04**	**19**	**4.8b,4.3s**	**230**	**1-146**
NIED	IV	08 00 56 00	36.70N	142.30E	14	4.7W,4.3s		**¶16414239**
IDC	IV	08 00 56 18.6–.65	36.74N	142.12E	0	4.5,4.4		
JMA	IV	08 00 56 18.7–.30	36.71N	142.28E	17	4.7,4.4		
ISCJB	IV	08 00 56 19.7–.25	36.72N–.03	142.23E–.03	19	4.7b,4.3s		
BJI	IV	08 00 56 22.1	36.72N	141.85E	29	5.0b,5.0b		
MOS	IV	08 00 56 22.9–.98	37.01N	142.07E	29	4.9b,4.2s		
NEIC	IV	08 00 56 24.5–.66	36.68N	142.14E	43–5	4.7b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ20.00000°,λ107.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ84.00000°. M_o1.38000×10^{16}
IDC Error ellipse: s-maj=16.7km s-min=12.0km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=158.4.
MOS Error ellipse: s-maj=7.8km s-min=5.1km az=111.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=142.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 01 12 05.7–.97**	**36.71N–.04**	**140.61E–.06**	**12–6**	**3.5b**	**20**	**0-78**
IDC	IV	08 01 12 04.1–1.2	36.63N	140.56E	0	3.6,3.4		**¶600580446**
ISCJB	IV	08 01 12 05.3–.73	36.67N–.04	140.64E–.06	18–4	3.4b,3.4		
JMA	IV	08 01 12 06.2	36.71N	140.55E	12–1	3.7,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=29.3km s-min=22.6km az=13.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.6km az=26.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s329.00000°,δ49.00000°,λ-98.00000°. NP2:ϕ_s161.00000°,δ42.00000°,λ-81.00000°. Principal axes: T Plg4.0000°,Azm65.0000°; N Plg6.0000°,Azm335.0000°; P Plg83.0000° ,Azm186.0000°

(135) Near coast of central Chile

ISC	**IV**	**08 01 23 52.5–3.6**	**36.12S–.05**	**73.7W–.10**	**1–21**	**3.8b**	**28**	**1-86**
NEIC	IV	08 01 23 54.0	36.16S	73.58W	14	4.2L,3.9b		**¶16529570**
GUC	IV	08 01 23 54.1–.60	36.16S	73.58W	14–4	4.2L,3.9b		
IDC	IV	08 01 23 55.9–1.3	36.18S	73.47W	0	4.2L,4.0		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, Hualpen, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at Chiguayante and Curanilahue. After GUC.
GUC Error ellipse: s-maj=2.4km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=20.1km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 01 24 00.6–1.3**	**36.77N–.07**	**140.56E–.05**	**5–12**	**3.5b**	**20**	**0-57**
ISCJB	IV	08 01 23 59.9–1.1	36.65N–.05	140.77E–.07	12–4	3.5b		**¶600580452**
IDC	IV	08 01 23 59.6–1.8	36.86N	140.66E	0	3.6,3.5		
JMA	IV	08 01 24 01.6	36.70N	140.64E	6–1	3.1,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.7km az=37.4.
IDC Error ellipse: s-maj=37.2km s-min=23.8km az=69.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 02 21 07.8–1.2**	**38.27N–.05**	**141.97E–.09**	**57–10**	**4.3b,3.0s**	**58**	**1-89**
NIED	IV	08 02 21 00	38.30N	141.90E	68	4.1W,3.0s		**¶16506248**
NEIC	IV	08 02 21 06.3–.78	38.29N	141.91E	40–7	4.5b,3.0s		
ISCJB	IV	08 02 21 07.9–.78	38.30N–.04	141.87E–.09	71–5	4.0b,3.0s		
JMA	IV	08 02 21 08.7–.10	38.31N	141.88E	60–2	4.2,3.0s		
IDC	IV	08 02 21 10.2–2.6	38.31N	141.88E	75–23	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s248.00000°,δ71.00000°,λ80.00000°. $M_0$1.47000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.8km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.7km az=16.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=13.0km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 02 24 38.7–2.2**	**38.24N–.07**	**142.0E–.10**	**57–15**	**3.7b**	**24**	**1-46**
IDC	IV	08 02 24 34.5–22	38.27N	142.60E	49–93	3.7,3.6		**¶17200188**
JMA	IV	08 02 24 38.9–.10	38.25N	141.89E	62–3	4.0,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=282.1km s-min=57.5km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 02 57 20.5–.57**	**36.83N–.03**	**141.19E–.04**	**45–4**	**4.8b,4.0s**	**358**	**0-155**
NIED	IV	08 02 57 00	36.80N	141.20E	47	4.8W,4.0s		**¶16414243**
MOS	IV	08 02 57 17.2–1.0	36.86N	141.08E	26	5.0b,4.0s		
BJI	IV	08 02 57 17.6	36.72N	141.17E	37	5.0b,4.7b		
NEIC	IV	08 02 57 20.6–.58	36.79N	141.03E	40–5	4.9b,4.7b		
ISCJB	IV	08 02 57 20.1–.35	36.79N–.02	141.10E–.03	51–2	4.8b,4.0s		
JMA	IV	08 02 57 20.1–.10	36.77N	141.17E	44–1	4.7,4.0s		
IDC	IV	08 02 57 24.2–1.6	36.79N	141.08E	75–13	4.6,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ16.00000°,λ160.00000°. NP2:ϕ_s246.00000°,δ85.00000°,λ75.00000°. $M_0$1.52000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=102.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=115.0. Recorded [3 JMA] in Fukushima and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=40.3.
JMA Event type fe.
IDC Error ellipse: s-maj=11.5km s-min=8.6km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 03 00 05.7–.58**	**37.15N–.05**	**141.22E–.07**	**46–3**	**3.9b**	**46**	**0-147**
NIED	IV	08 03 00 00	37.10N	141.10E	53	4.3W		**¶17200194**
ISCJB	IV	08 03 00 05.0–.76	37.15N–.05	141.18E–.09	55–4	3.9b		
JMA	IV	08 03 00 05.8–.10	37.10N	141.13E	52–1	4.1		
IDC	IV	08 03 00 08.1–.63	37.61N	141.01E	46–3	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ14.00000°,λ152.00000°. NP2:ϕ_s19.00000°,δ84.00000°,λ78.00000°. $M_0$2.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=7.3km az=12.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=8.7km az=148.0.

(502) Arkansas

ISC	**IV**	**08 03 27 57.5–1.1**	**35.27N–.02**	**92.40W–.02**	**3–8**		**199**	**0-16**
NEIC	IV	08 03 27 58.0	35.26N	92.39W	6	3.2		**¶16529571**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway, Mountain View, Quitman and Vilonia. After CERI.

(228) Near east coast of eastern Honshu

JMA	**IV**	**08 03 34 10.1–.10**	**38.39N**	**141.92E**	**58–2**	**3.7**		
								¶600580518

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 03 50 05.4–1.0**	**39.1N–.10**	**142.35E–.07**	**27**	**3.8b**	**21**	**1-76**
NIED	IV	08 03 50 00	39.20N	142.40E	32	4.0W		**¶17200198**
ISCJB	IV	08 03 50 04.1–.94	39.2N–.10	142.43E–.07	27	3.6b		
JMA	IV	08 03 50 04.4–.30	39.19N	142.38E	11	4.1		
IDC	IV	08 03 50 05.2–3.2	38.99N	142.38E	29–5	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s304.00000°,δ43.00000°,λ-154.00000°. NP2:ϕ_s194.00000°,δ73.00000°,λ-50.00000°. $M_0$1.29000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=19.3km s-min=6.8km az=167.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=82.2km s-min=19.5km az=177.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**08 05 11 00.0–.20**	**38.26N**	**142.13E**	**32–2**	**3.9**		
								¶600580597

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 06 14 32.5–1.8**	**38.20N–.07**	**141.9E–.10**	**60–14**	**3.9b**	**19**	**1-146**
IDC	IV	08 06 14 21.9–2.5	38.57N	143.07E	0	4.1,3.9		**¶600580646**
ISCJB	IV	08 06 14 32.5–1.1	38.21N–.06	141.8E–.10	67–8	3.9b,3.9		
JMA	IV	08 06 14 33.9	38.23N	141.81E	57–1	3.8,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=90.7km s-min=24.7km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=17.7km s-min=9.3km az=8.0.
JMA Event type fe.

(502) Arkansas

ISC	**IV**	**08 06 47 43.6–.90**	**35.24N–.02**	**92.37W–.02**	**6–7**		**53**	**0-4**
ISCJB	IV	08 06 47 43.3–.46	35.25N–.02	92.38W–.02	2–3			**¶16424646**
NEIC	IV	08 06 47 43.9	35.24N	92.36W	4	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=177.2.
NEIC Event type fe. Felt at Greenbrier. After CERI.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 07 04 31.2–.98**	**36.69N–.04**	**140.64E–.06**	**12–6**	**3.6b**	**24**	**0-57**
IDC	IV	08 07 04 29.6–1.3	36.65N	140.70E	0	3.7,3.5		**¶600580686**
ISCJB	IV	08 07 04 30.2–.86	36.66N–.04	140.77E–.06	12–4	3.5b,3.5		
JMA	IV	08 07 04 31.9	36.71N	140.63E	5–1	3.3,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=22.6km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.8km az=31.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 07 42 27.1–1.3**	**38.26N–.06**	**141.97E–.10**	**61–11**	**3.8b**	**37**	**1-89**
NIED	IV	08 07 42 00	38.20N	141.90E	59	3.9W		**¶17200219**
ISCJB	IV	08 07 42 26.4–.77	38.25N–.04	141.91E–.10	72–5	3.7b		
JMA	IV	08 07 42 27.6–.10	38.25N	141.86E	64–1	3.8		
IDC	IV	08 07 42 29.7–2.8	38.25N	141.83E	87–25	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ44.00000°,λ112.00000°. NP2:ϕ_s145.00000°,δ50.00000°,λ70.00000°. $M_0$7.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.3km az=18.9.
JMA Event type fe.
IDC Error ellipse: s-maj=19.9km s-min=16.3km az=83.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**08 08 03 25.7–.10**	**38.84N**	**142.09E**	**40–2**	**3.8**		
NIED	IV	08 08 03 00	38.80N	142.10E	53	4.1W		**¶600580730**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ73.00000°,λ-4.00000°. NP2:ϕ_s320.00000°,δ86.00000°,λ-163.00000°. $M_0$1.46000×10^{15}

(227) Eastern Honshu

JMA	**IV**	**08 09 40 03.9**	**35.92N**	**138.03E**	**9**	**3.6**		
NIED	IV	08 09 40 00	35.90N	138.00E	20	3.4W		**¶600580779**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s162.00000°,δ86.00000°,λ-12.00000°. NP2:ϕ_s253.00000°,δ78.00000°,λ-176.00000°. Principal axes: T Plg6.0000°,Azm208.0000°; N Plg77.0000°,Azm326.0000°; P Plg11.0000° ,Azm117.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ76.00000°,λ-173.00000°. NP2:ϕ_s160.00000°,δ84.00000°,λ-14.00000°. $M_0$1.45000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 10 33 14.6–.64**	**36.71N–.05**	**141.01E–.07**	**32**	**3.7b**	**22**	**0-147**
NIED	IV	08 10 33 00	36.90N	141.10E	50	3.8W		**¶17200233**
JMA	IV	08 10 33 16.9–.10	36.88N	141.06E	50–1	3.8		
IDC	IV	08 10 33 17.5–2.2	36.77N	141.12E	57–23	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ32.00000°,λ-99.00000°. NP2:ϕ_s193.00000°,δ59.00000°,λ-85.00000°. $M_0$6.63000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=13.0km az=80.0.

(45) California-Baja California border region

ISC	**IV**	**08 10 34 30.4–.83**	**32.67N–.02**	**115.74W–.02**	**15–5**		**87**	**0-6**
IASPE	IV	08 10 34 30.3–.91	32.69N–.03	115.74W–.02	17–4			**¶16577749**
ISCJB	IV	08 10 34 30.3–.32	32.68N–.02	115.70W–.02	13–2			
NEIC	IV	08 10 34 31.7	32.63N	115.73W	3	3.5L,3.3L		
ECX	IV	08 10 34 31.7–.51	32.63N	115.73W	3	3.5L,3.3		
MEX	IV	08 10 34 32.4–.44	32.81N	115.72W	20–76	3.9,3.3		

ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=162.7. GT5 selection from ISC bulletin. GT5 identified by Bond˜jr and McLaughlin (2009) selection criteria. Bond˜jr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=165.9.
NEIC Event type fe. Felt at El Centro, California. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=14.8km s-min=3.4km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 11 07 20.6–1.2**	**38.31N–.05**	**141.9E–.10**	**47–11**	**3.5b**	**26**	**0-89**
NIED	IV	08 11 07 00	38.40N	141.80E	62	3.7W		**¶600580850**
ISCJB	IV	08 11 07 20.4–.91	38.34N–.05	141.9E–.10	61–7	3.6b		
JMA	IV	08 11 07 21.9–.10	38.39N	141.76E	58–1	3.7		
IDC	IV	08 11 07 22.6–2.9	38.24N	141.80E	68–27	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ32.00000°,λ104.00000°. NP2:ϕ_s163.00000°,δ59.00000°,λ82.00000°. $M_0$3.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=7.0km az=12.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=30.1km s-min=17.6km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 11 09 16.0–1.8**	**38.27N–.05**	**142.1E–.10**	**56–14**	**4.1b**	**37**	**1-73**
IDC	IV	08 11 09 06.2–1.9	38.51N	142.79E	0	4.1,4.1b		**¶16577750**
NEIC	IV	08 11 09 11.6–.55	38.53N	142.65E	35	4.0b,4.1b		
ISCJB	IV	08 11 09 16.0–1.0	38.30N–.04	142.0E–.10	69–6	4.0b,4.1b		
JMA	IV	08 11 09 17.5–.10	38.32N	141.89E	63–1	4.0,4.1b		

ISC Event type se.
IDC Error ellipse: s-maj=52.6km s-min=20.4km az=63.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.2km az=10.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 11 53 02.5–2.2**	**38.53N–.05**	**142.24E–.09**	**25–15**	**3.5b**	**21**	**1-62**
IDC	IV	08 11 52 59.3–1.1	38.32N	142.86E	0	3.7,3.6		**¶17200242**
NIED	IV	08 11 53 00	38.60N	142.10E	56	3.8W,3.6		
ISCJB	IV	08 11 53 01.7–1.5	38.50N–.05	142.26E–.08	28–9	3.5b,3.6		
JMA	IV	08 11 53 04.3–.20	38.57N	142.11E	34–2	3.8,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=19.9km az=110.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ47.00000°,λ131.00000°. NP2:ϕ_s223.00000°,δ57.00000°,λ55.00000°. $M_0$5.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.9km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(502) Arkansas

ISC	**IV**	**08 12 46 38.6–.85**	**35.24N–.02**	**92.39W–.02**	**6–6**		**47**	**0-4**
ISCJB	IV	08 12 46 38.3–.38	35.24N–.02	92.39W–.02	3–3			**¶16577753**
NEIC	IV	08 12 46 39.0	35.24N	92.37W	6	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=144.9.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Vilonia. After CERI.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 12 46 49.7–1.7**	**37.65N–.04**	**142.02E–.09**	**43–16**	**4.0b**	**41**	**1-146**
NIED	IV	08 12 46 00	37.60N	141.90E	47	3.9W		**¶17200246**
ISCJB	IV	08 12 46 49.0–.91	37.61N–.04	141.95E–.09	55–7	3.9b,3.8s		
JMA	IV	08 12 46 49.7–.10	37.63N	141.92E	40–3	4.1,3.8s		
IDC	IV	08 12 46 52.2–2.6	37.63N	141.88E	67–24	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ10.00000°,λ126.00000°. NP2:ϕ_s195.00000°,δ82.00000°,λ84.00000°. $M_0$6.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.9km az=10.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.5km s-min=15.4km az=70.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 12 58 26.6–1.4**	**38.36N–.05**	**141.9E–.10**	**51–12**	**3.7b**	**32**	**0-62**
NIED	IV	08 12 58 00	38.40N	141.80E	74	3.8W		**¶17200247**
ISCJB	IV	08 12 58 26.0–.83	38.38N–.04	141.85E–.09	64–6	3.6b		
JMA	IV	08 12 58 27.2–.10	38.40N	141.78E	58–1	3.9		
IDC	IV	08 12 58 28.9–2.8	38.29N	141.75E	75–25	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ29.00000°,λ101.00000°. NP2:ϕ_s235.00000°,δ62.00000°,λ84.00000°. $M_0$6.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.8km az=10.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=15.7km az=83.0.

(137) San Juan Province

ISC	**IV**	**08 13 00 19.7–.56**	**31.29S–.04**	**68.66W–.05**	**107–4**	**4.2b**	**56**	**0-163**
NEIC	IV	08 13 00 18.0	31.25S	68.64W	105	4.5		**¶16577754**
GUC	IV	08 13 00 18.9–.41	31.28S	69.46W	202–11	4.2L		
ISCJB	IV	08 13 00 19.2–.32	31.32S–.03	68.63W–.04	113–3	4.1b		
IDC	IV	08 13 00 19.7–.60	31.36S	68.53W	106–5	4.0,3.8		
SJA	IV	08 13 00 19.0–.73	31.32S	68.63W	109–3	4.3L,4.1W		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at San Juan. After SJA.
GUC Error ellipse: s-maj=1.2km s-min=18.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=29.5.
IDC Error ellipse: s-maj=23.6km s-min=14.2km az=84.0.
SJA Error ellipse: s-maj=2.4km s-min=3.7km az=-1.0.

(502) Arkansas

ISC	**IV**	**08 13 16 48.1–.90**	**35.23N–.03**	**92.35W–.04**	**13–7**		**44**	**0-5**
ISCJB	IV	08 13 16 47.8–.55	35.24N–.02	92.35W–.04	5–5			**¶16587447**
NEIC	IV	08 13 16 48.0	35.24N	92.37W	6	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=13.3.
NEIC Event type fe. Felt at Conway and Greenbrier. After CERI.

(229) Off east coast of Honshu

ISC	**IV**	**08 13 20 24.2–1.7**	**37.89N–.05**	**142.33E–.05**	**8–9**	**4.2b**	**85**	**1-89**
NIED	IV	08 13 20 00	37.90N	142.30E	20	4.0W		**¶16577755**
IDC	IV	08 13 20 23.0–.68	37.89N	142.37E	0	4.2,4.1		
ISCJB	IV	08 13 20 23.5–1.1	37.86N–.03	142.39E–.05	17–7	4.1b,2.9s		
MOS	IV	08 13 20 24.8–1.1	37.94N	142.40E	25	4.4b,2.9s		
JMA	IV	08 13 20 25.8–.30	37.89N	142.31E	26–5	4.2,2.9s		
NEIC	IV	08 13 20 28.2–.52	37.91N	142.25E	35	4.5b,2.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ32.00000°,λ-141.00000°. NP2:ϕ_s36.00000°,δ71.00000°,λ-64.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.2km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=28.2.
MOS Error ellipse: s-maj=9.6km s-min=6.7km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.6km az=119.0.

(502) Arkansas

ISC	**IV**	**08 14 56 32.0–.78**	**35.27N–.02**	**92.34W–.03**	**11–5**	**4.0b,3.5s**	**335**	**0-101**
IDC	IV	08 14 56 31.7–.81	35.43N	92.38W	0	4.2L,4.0		**¶16414578**

NEIC IV 08 14 56 32.0 35.26N 92.36W 6 3.9W,3.9b
ISC Event type fe.
IDC Error ellipse: s-maj=15.3km s-min=10.6km az=168.0.
NEIC Event type fe. Felt [IV] at Damascus, Greenbrier and Mayflower; [III] at Bentonville, Fort Smith, Higden and Van Buren; [II] at Benton, Conway, Fayetteville, Little Rock, Springdale and Stuttgart. Felt widely in central and northwestern Arkansas. After CERI. Moment Tensor Solution. s25 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.34 $M_{\theta\theta}$6.72 $M_{\phi\phi}$-6.38 $M_{r\theta}$0.49 $M_{\theta\phi}$3.59 $M_{\phi r}$2.03 Best double couple: NP1:ϕ_s120.00000°,δ75.00000°,λ-5.00000°. NP2:ϕ_s211.00000°,δ85.00000°,λ-165.00000°. Principal axes: T 7.7600,Plg7.0000°,Azm345.0000° ; N 0.0000,Plg74.0000°,Azm229.0000°; P -7.7600,Plg14.0000°,Azm77.0000° $M_0$7.80000×10^{14}

(228) Near east coast of eastern Honshu

JMA	**IV**	**08 15 05 14.5–.10**	**36.95N**	**141.05E**	**50–1**	**3.7**		
NIED	IV	08 15 05 00	37.00N	141.10E	35	3.8W		**¶600581032**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ30.00000°,λ-122.00000°. NP2:ϕ_s276.00000°,δ65.00000°,λ-73.00000°. $M_0$6.63000×10^{14}

(377) Spain

ISC	**IV**	**08 15 07 10.1–.99**	**41.23N–.02**	**1.16W–.02**	**3–7**	**3.7b**	**843**	**1-80**
CSEM	IV	08 15 07 10.5–.06	41.20N	1.14W	2	4.5L,3.8W		**¶16414580**
IGIL	IV	08 15 07 11.8	41.16N	1.07W	2	3.5L,3.8W		
INMG	IV	08 15 07 12.7–1.9	41.18N	1.09W	6–3	4.0L,3.8W		
CRAAG	IV	08 15 07 13.0	41.16N	1.07W		4.0L,3.8W		
NEIC	IV	08 15 07 13.0	41.18N	1.09W	11	3.8W,3.8W		
SFS	IV	08 15 07 13.0	41.16N	1.07W	10	3.8L,3.8W		
MDD	IV	08 15 07 13.0–.20	41.18N	1.08W	11–0	4.1,3.8W		
LDG	IV	08 15 07 13.3–.06	41.19N	1.06W	10	4.5L,3.9		
IDC	IV	08 15 07 14.0–3.8	41.13N	1.20W	24–27	4.1L,3.8		
STR	IV	08 15 07 17.6–.16	41.51N	0.92W	5	4.2L,3.8		

ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=137.0.
INMG Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=108.0.
NEIC Event type fe. Felt [IV] in the Villar de los Navarros area. After MDD.
SFS Event type ke.
MDD Event type fe. Error ellipse: s-maj=2.3km s-min=1.7km az=134.0. EMS: IV-V INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=133.0.
IDC Error ellipse: s-maj=18.6km s-min=12.7km az=144.0.
STR Event type ke.

(256) Leyte

MAN	**IV**	**08 15 08 04**	**10.94N**	**124.43E**	**1**	**4.6b,3.5L**		**¶601668990**

MAN Event type fe. INTENSITY III - ISABEL LEYTE; INTENSITY II - PALOMPON & ORMOC CITY LEYTE.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 15 39 39.3–1.0**	**36.86N–.04**	**141.14E–.08**	**43–9**	**4.0b,3.1s**	**43**	**0-147**
NIED	IV	08 15 39 00	36.90N	141.10E	50	4.2W,3.1s		**¶602553058**
ISCJB	IV	08 15 39 38.7–.63	36.84N–.04	141.14E–.07	51–4	4.0b,3.0s		
JMA	IV	08 15 39 39.9–.10	36.88N	141.07E	50–1	4.2,3.0s		
IDC	IV	08 15 39 42.0–1.8	36.78N	140.96E	69–17	4.1,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ15.00000°,λ-108.00000°. NP2:ϕ_s195.00000°,δ76.00000°,λ-85.00000°. $M_0$2.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.7km az=17.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=10.2km az=90.0.

(502) Arkansas

ISC	**IV**	**08 16 46 19.1–1.0**	**35.25N–.02**	**92.38W–.02**	**5–9**		**123**	**0-11**
ISCJB	IV	08 16 46 18.6–.47	35.25N–.01	92.36W–.02	3–3			**¶16424648**
NEIC	IV	08 16 46 19.0	35.26N	92.38W	6	3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.4km az=165.7.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Batesville, Bauxite, Benton, Damascus, Eureka Springs, Fayetteville, Harrison, Hot Springs National Park, Kingston, Midway, Shirley, Springdale and West Memphis. After CERI.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 17 00 38.7–1.5**	**38.27N–.05**	**142.2E–.10**	**54–13**	**3.7b**	**41**	**1-46**
NIED	IV	08 17 00 00	38.30N	141.90E	56	3.8W		**¶16577758**
IDC	IV	08 17 00 30.6–3.9	38.54N	142.51E	0	4.1,4.0		
NEIC	IV	08 17 00 35.3–.96	38.47N	142.55E	35	4.1b,4.0		
ISCJB	IV	08 17 00 38.5–.92	38.24N–.03	142.06E–.10	70–6	3.8b,4.0		
JMA	IV	08 17 00 41.3–.10	38.31N	141.88E	65–1	3.6,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ73.00000°,λ-17.00000°. NP2:ϕ_s264.00000°,δ74.00000°,λ-162.00000°. $M_0$5.29000×10^{14}
IDC Error ellipse: s-maj=80.5km s-min=26.4km az=83.0.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=7.2km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=5.7km az=175.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(460) Wyoming

ISC	**IV**	**08 17 59 03.6–.66**	**43.73N–.03**	**105.20W–.03**	**0**	**4.0b**	**98**	**1-90**
IDC	IV	08 17 59 00.8–.90	43.42N	105.17W	0	4.0b,3.8		**¶17200270**
NEIC	IV	08 17 59 03.5–.44	43.76N	105.10W	0	3.3L,3.8		
ISCJB	IV	08 17 59 04.2–.21	43.74N–.02	105.34W–.02	0	4.0b,3.8		

ISC Event type sm.
NEIC Event type fm. 67 km [41 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(248) Philippine Islands region

ISC	**IV**	**08 18 29 17.2–.42**	**13.87N–.02**	**120.04E–.03**	**31–2**	**5.1b,4.6s**	**559**	**1-178**
BJI	IV	08 18 29 11.2	13.65N	120.28E	20	4.9b,4.9s		**¶17200272**
MOS	IV	08 18 29 15.6–.92	13.91N	120.14E	33	5.3b,4.7s		
BKK	IV	08 18 29 15.5–.30	14N–4.0	120E–4.0	10	5.5,5.2b		
IDC	IV	08 18 29 17.0–2.1	13.93N	120.22E	30–14	4.7,4.7		
MAN	IV	08 18 29 16	13.84N	119.79E	33	5.9b,5.4s		
ISCJB	IV	08 18 29 19.2–.32	13.91N–.02	120.10E–.02	65–3	5.0b,5.4s		
NEIC	IV	08 18 29 20.3–.45	13.87N	120.13E	64–4	5.1b,5.4s		
GCMT	IV	08 18 29 20.3–.20	13.99N	119.89E	21–1	5.2W,5.4s		
KLM	IV	08 18 29 20.3	13.78N	120.33E	66	5.9s,5.3b		
DJA	IV	08 18 29 26.4–.40	14N–2.0	120E–2.0	99–5	5.3b,5.3		

ISC Event type fe.
MAN Event type fe. INTENSITY IV - LOOC & LUBANG OCCIDENTAL MINDORO; INTENSITY III - PUERTO GALERA SAN TEODORO & BACO ORIENTAL MINDORO; MANILA & GUIGINTO BULACAN; MAKATI CITY; MUNTINLUPA CITY; MARIKINA CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV PIVS] at Looc and Lubang, Lubang Island and [III PIVS] at Abra de Ilog, Baco, Puerto Galera and San Teodoro. Felt [III PIVS] at Guiguinto, Makati, Manila, Marikina, Muntinlupa City and Quezon City, Luzon. Also felt at Olongapo, Salcedo and Tarlac.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c62; s72,c106;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.26±.26 $M_{\theta\theta}$0.79±.14; $M_{\phi\phi}$-4.05±.19; $M_{r\theta}$-0.22±.29; $M_{\theta\phi}$0.15±.09; $M_{\phi r}$-6.21±.64; Best double couple: NP1:ϕ_s182.00000°,δ75.00000°,λ92.00000°. NP2:ϕ_s353.00000°,δ15.00000°,λ81.00000°. Principal axes: T 6.8220,Plg60.0000°,Azm95.0000°; N 0.7820,Plg2.0000°,Azm1.0000° ; P -7.6010,Plg30.0000°,Azm270.0000° $M_0$7.21200×10^{16}

(221) Kuril Islands

ISC	**IV**	**08 18 42 29.6–.25**	**43.75N–.03**	**147.53E–.03**	**61–1**	**5.2b**	**1362**	**1-153**
NIED	IV	08 18 42 00	43.60N	147.60E	68	5.3W		**¶16414585**
ISCJB	IV	08 18 42 28.3–.30	43.69N–.02	147.58E–.02	62–2	5.2b		
MOS	IV	08 18 42 28.6–.91	43.71N	147.52E	65	5.5b,4.2s		
NEIC	IV	08 18 42 28.9–.29	43.72N	147.48E	54–2	5.3b,4.2s		
BJI	IV	08 18 42 28.7	43.90N	147.45E	59	5.2b,4.9b		
JMA	IV	08 18 42 28.9–.20	43.54N	147.53E	34	5.2,4.9b		
SKHL	IV	08 18 42 29.3–.20	43.64N	147.71E	66–4	5.8b,5.7		
GCMT	IV	08 18 42 29.0–.20	43.72N	147.56E	56–1	5.3W,5.7		
IDC	IV	08 18 42 29.9–.31	43.74N	147.49E	61–2	5.0,4.9		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ50.00000°,λ3.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ140.00000°. $M_0$8.98000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.1km az=166.7.
MOS Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=105.4. Felt (IV) at Malokuril'skoye, (III-IV) at Kuril'sk, (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=158.0. Felt [IV] at Kuril'sk and Shakotan and [II] at Yuzhno-Kuril'sk. Recorded [2 JMA] in eastern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
SKHL Event type fe. Felt (IV) at Malokurilskoe.Kurilsk; at (II) Yushno-Kurilsk.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c105; s96,c170; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.02 $M_{\theta\theta}$0.54±.02; $M_{\phi\phi}$-0.68±.02; $M_{r\theta}$0.63±.02; $M_{\theta\phi}$-0.49±.02; $M_{\phi r}$0.26±.02; Best double couple: NP1:ϕ_s62.00000°,δ84.00000°,λ138.00000°. NP2:ϕ_s157.00000°,δ49.00000°,λ8.00000°. Principal axes: T 1.0390,Plg33.0000°,Azm10.0000°; N 0.0150,Plg48.0000°,Azm235.0000° ; P -1.0550,Plg23.0000°,Azm116.0000° $M_0$1.04700×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=7.4km az=161.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 18 53 32.1–1.0**	**36.96N–.03**	**140.48E–.04**	**9–7**	**4.1b**	**75**	**0-147**
NIED	IV	08 18 53 00	36.90N	140.50E	5	4.0W		**¶600581198**
IDC	IV	08 18 53 31.2–.65	37.00N	140.45E	0	4.0,3.9		
ISCJB	IV	08 18 53 32.3–.38	36.94N–.02	140.60E–.04	24–2	4.1b,3.9		
JMA	IV	08 18 53 32.6	36.94N	140.54E	5–2	3.9,3.9		
NEIC	IV	08 18 53 37.0–.82	36.91N	140.48E	46–8	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ25.00000°,λ-114.00000°. NP2:ϕ_s42.00000°,δ67.00000°,λ-79.00000°. $M_0$9.81000×10^{14}
IDC Error ellipse: s-maj=16.6km s-min=14.6km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=22.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ68.00000°,λ-81.00000°. NP2:ϕ_s198.00000°,δ24.00000°,λ-111.00000°. Principal axes: T Plg22.0000°,Azm124.0000°; N Plg8.0000°,Azm217.0000°; P Plg66.0000° ,Azm327.0000°
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.2km az=74.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 18 56 56.4–.56**	**36.16N–.04**	**140.06E–.04**	**55–5**	**4.1b**	**87**	**0-92**
NIED	IV	08 18 56 00	36.20N	140.00E	56	4.2W		**¶16415749**
ISCJB	IV	08 18 56 55.1–.36	36.15N–.03	140.09E–.05	62–3	4.1b		
NEIC	IV	08 18 56 56.5–.61	36.12N	140.07E	59–5	4.6b		
JMA	IV	08 18 56 56.6–.10	36.19N	140.01E	52–1	4.1		
IDC	IV	08 18 56 56.4–.71	36.13N	140.04E	55–6	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ35.00000°,λ140.00000°. NP2:ϕ_s41.00000°,δ68.00000°,λ62.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=11.5.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=84.0. Recorded [3 JMA] in Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s62.00000°,δ73.00000°,λ91.00000°. NP2: ϕ_s239.00000°,δ17.00000°,λ87.00000°. Principal axes: T Plg62.0000°,Azm333.0000° ; N Plg1.0000°,Azm241.0000°; P Plg28.0000°,Azm151.0000°
IDC Error ellipse: s-maj=14.5km s-min=11.9km az=91.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 19 06 55.3–1.7**	**37.25N–.04**	**141.65E–.06**	**5–10**	**3.9b**	**67**	**1-90**
NIED	IV	08 19 06 00	37.30N	141.70E	11	3.8W		**¶16577764**
IDC	IV	08 19 06 54.8–.68	37.23N	141.59E	0	4.0,3.8		
ISCJB	IV	08 19 06 55.8–.93	37.23N–.03	141.70E–.05	20–6	3.9b,3.8		
JMA	IV	08 19 06 56.9–.10	37.26N	141.65E	27–1	4.2,3.8		
NEIC	IV	08 19 06 59.2–2.0	37.22N	141.63E	30–14	4.7b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_s223.00000°,δ47.00000°,λ-101.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=15.0km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=16.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.0km az=113.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 21 16 09.9–1.5**	**36.88N–.04**	**141.20E–.10**	**38–2**	**3.2b**	**20**	**0-57**
IDC	IV	08 21 16 03.7–2.3	36.87N	141.46E	0	3.4,3.3		**¶17200286**
ISCJB	IV	08 21 16 08.9–1.0	36.85N–.04	141.2E–.10	46–7	3.1b,3.3		
JMA	IV	08 21 16 10.6–.10	36.90N	141.06E	50–1	3.5,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=52.2km s-min=22.5km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.8km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**08 22 09 18.4–2.2**	**37.22N–.06**	**141.70E–.09**	**13–11**		**20**	**1-57**
NIED	IV	08 22 09 00	37.20N	141.40E	50	3.4W		**¶17200289**
IDC	IV	08 22 09 15.1–2.5	37.38N	141.98E	0	3.5,3.3b		
ISCJB	IV	08 22 09 20.7–1.6	37.17N–.05	141.62E–.10	32–7	3.3b,3.3b		
JMA	IV	08 22 09 23.2–.10	37.20N	141.41E	47–1	3.7,3.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ10.00000°,λ-7.00000°. NP2:ϕ_s4.00000°,δ89.00000°,λ-100.00000°. $M_0$1.55000×10^{14}
IDC Error ellipse: s-maj=48.5km s-min=36.0km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=8.4km az=177.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(135) Near coast of central Chile

ISC	**IV**	**08 22 28 60.0–.74**	**34.49S–.03**	**71.75W–.04**	**15–5**	**4.1b**	**39**	**0-95**
IDC	IV	08 22 28 58.0–1.3	34.43S	71.70W	0	4.2,4.2L		**¶16509626**
ISCJB	IV	08 22 28 59.5–.57	34.56S–.03	71.95W–.06	24–4	4.0b,3.2s		
NEIC	IV	08 22 28 59.0	34.52S	71.89W	26	4.1L,4.0b		
GUC	IV	08 22 28 59.7–.34	34.52S	71.90W	26–3	4.1L,4.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=36.2km s-min=27.2km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.3km az=175.2.
NEIC Event type fe. Felt [IV] at Lolol and Talca; [III] at Curico, Duao, Iloca, Longavi, Molina, Paredones, Pencahue, Pichilemu and San Fernando; [II] at Constitucion, Linares and San Vicente de Taguatagua. After GUC.
GUC Error ellipse: s-maj=0.8km s-min=2.6km az=-1.0.

(224) Hokkaido region

ISC	**IV**	**08 23 24 28.4–1.8**	**43.01N–.10**	**145.79E–.06**	**42–17**		**20**	**0-4**
ISCJB	IV	08 23 24 28.2–1.1	43.05N–.08	145.78E–.07	49–10			**¶600581445**
JMA	IV	08 23 24 28.5–.10	43.05N	145.75E	50–1	3.7		
SKHL	IV	08 23 24 28.9–.30	43.04N	145.81E	33–1	4.5b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=5.5km az=151.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 00 30 25.2–1.5**	**36.77N–.06**	**141.2E–.10**	**45–11**	**3.8b**	**27**	**0-60**
NIED	IV	09 00 30 00	36.80N	141.00E	50	3.6W		**¶600581509**
ISCJB	IV	09 00 30 24.5–.85	36.77N–.05	141.12E–.08	54–5	3.7b		
JMA	IV	09 00 30 26.2–.10	36.81N	141.01E	52–1	3.8		
IDC	IV	09 00 30 27.2–5.0	36.79N	141.06E	62–39	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ26.00000°,λ107.00000°. NP2:ϕ_s198.00000°,δ65.00000°,λ82.00000°. $M_0$3.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.9km az=28.4.
JMA Event type fe.
IDC Error ellipse: s-maj=37.7km s-min=20.3km az=75.0.

(229) Off east coast of Honshu

ISC	**IV**	**09 01 25 28.0–.27**	**36.77N–.03**	**142.12E–.03**	**30–1**	**5.3b,4.6s**	**1282**	**1-164**
NIED	IV	09 01 25 00	36.80N	142.30E	11	5.0W,4.6s		**¶600581545**
JMA	IV	09 01 25 24.0–.30	36.78N	142.25E	20–4	5.1,4.6s		
BJI	IV	09 01 25 25.7	36.78N	142.02E	25	5.1b,5.0b		
ISCJB	IV	09 01 25 25.2–.59	36.75N–.02	142.13E–.02	19–4	5.2b,4.6s		
NEIC	IV	09 01 25 26.7–1.5	36.75N	142.05E	19–9	5.4b,4.6s		
GCMT	IV	09 01 25 26.7–.30	36.81N	142.16E	22–0	5.1W,4.6s		
MOS	IV	09 01 25 27.9–.80	37.10N	142.03E	27	5.4b,4.4s		
IDC	IV	09 01 25 28.3–.35	36.74N	142.16E	32–1	4.9,4.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_s4.00000°,δ58.00000°,λ93.00000°. $M_0$3.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=164.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.1km az=146.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c46; s94,c139; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.57±.21 $M_{\theta\theta}$0.29±.14; $M_{\phi\phi}$-4.86±.15; $M_{r\theta}$-0.36±.24; $M_{\theta\phi}$-0.62±.08; $M_{\phi r}$1.31±.20; Best double couple: NP1:ϕ_s0.00000°,δ53.00000°,λ82.00000°. NP2:ϕ_s193.00000°,δ38.00000°,λ100.00000°. Principal axes: T 4.7910,Plg80.0000°,Azm235.0000°; N 0.3090,Plg6.0000°,Azm5.0000°; P -5.0970,Plg7.0000°,Azm96.0000° $M_0$4.94400×10^{16}

MOS Error ellipse: s-maj=6.1km s-min=3.9km az=109.8.

IDC Error ellipse: s-maj=9.3km s-min=8.4km az=154.0.

(229) Off east coast of Honshu

ISC	**IV**	**09 02 31 03.6–.67**	**39.96N–.04**	**143.28E–.04**	**24–4**	**4.8b,4.4s**	**339**	**1-150**
IDC	IV	09 02 30 59.3–.59	39.84N	143.30E	0	4.6,4.5		¶16415757
NIED	IV	09 02 31 00	40.00N	143.30E	14	4.8W,4.5		
ISCJB	IV	09 02 31 01.3–.71	39.86N–.03	143.28E–.03	21–4	4.7b,4.3s		
JMA	IV	09 02 31 01.4–.20	39.96N	143.28E	11–3	4.6,4.3s		
BJI	IV	09 02 31 02.0	39.82N	143.16E	29	5.0b,4.8b		
MOS	IV	09 02 31 03.0–1.0	39.99N	143.18E	30	4.9b,4.2s		
NEIC	IV	09 02 31 04.4–1.2	39.90N	143.17E	29–8	4.7b,4.2s		

ISC Event type se.

IDC Error ellipse: s-maj=14.6km s-min=12.1km az=129.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ20.00000°,λ34.00000°. NP2:ϕ_s36.00000°,δ79.00000°,λ107.00000°. $M_0$1.72000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=143.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=7.3km s-min=4.4km az=103.6.

NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=127.0.

(229) Off east coast of Honshu

ISC	**IV**	**09 02 33 49.5–.87**	**39.86N–.05**	**143.35E–.05**	**28–5**	**4.7b,4.3s**	**222**	**1-150**
NIED	IV	09 02 33 00	40.00N	143.20E	23	4.5W,4.3s		¶16415758
IDC	IV	09 02 33 45.8–.65	39.85N	143.28E	0	4.5,4.4		
ISCJB	IV	09 02 33 46.6–.84	39.83N–.03	143.38E–.03	19–5	4.6b,4.3s		
BJI	IV	09 02 33 47.4	39.73N	143.09E	20	4.9b,4.9b		
JMA	IV	09 02 33 47.5–.20	39.96N	143.25E	3–3	4.5,4.9b		
MOS	IV	09 02 33 48.4–.99	39.87N	143.31E	30	4.8b,4.9b		
NEIC	IV	09 02 33 50.3–1.7	39.76N	143.30E	34–12	4.7b,4.9b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ23.00000°,λ81.00000°. NP2:ϕ_s29.00000°,δ68.00000°,λ94.00000°. $M_0$7.30000×10^{15}

IDC Error ellipse: s-maj=16.7km s-min=13.4km az=140.0.

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.9km az=152.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=8.2km s-min=5.3km az=98.4.

NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=118.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 02 38 00.8–1.5**	**36.61N–.04**	**141.09E–.06**	**32–10**	**3.9b**	**39**	**0-91**
ISCJB	IV	09 02 38 00.8–.70	36.60N–.04	141.10E–.08	48–6	3.8b		¶17200305
NIED	IV	09 02 38 00	36.60N	141.00E	50	4.1W		
JMA	IV	09 02 38 01.8–.10	36.63N	141.04E	45–1	4.0		
IDC	IV	09 02 38 04.3–2.2	36.55N	140.93E	65–21	3.9,3.8		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.6km az=10.7.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ45.00000°,λ59.00000°. NP2:ϕ_s249.00000°,δ53.00000°,λ117.00000°. $M_0$1.57000×10^{15}

JMA Event type fe.

IDC Error ellipse: s-maj=21.1km s-min=12.3km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 02 52 55.6–2.1**	**37.01N–.05**	**141.88E–.07**	**3–12**	**3.9b**	**39**	**1-90**
IDC	IV	09 02 52 55.2–.85	36.97N	141.92E	0	3.9,3.9		¶16529581
ISCJB	IV	09 02 52 56.1–1.3	36.96N–.03	141.91E–.07	20–8	3.9b,3.9		
NEIC	IV	09 02 52 59.7–2.2	36.93N	141.88E	32–16	4.2b,3.9		
NIED	IV	09 02 53 00	37.10N	141.60E	44	3.9W,3.9		
JMA	IV	09 02 53 01.2–.20	37.05N	141.59E	44–2	3.9,3.9		

ISC Event type se.

IDC Error ellipse: s-maj=21.8km s-min=16.6km az=84.0.

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.6km az=4.9.

NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.8km az=92.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ17.00000°,λ-180.00000°. NP2:ϕ_s183.00000°,δ90.00000°,λ-73.00000°. $M_0$7.79000×10^{14}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 02 59 35.1–.86**	**38.46N–.05**	**141.88E–.05**	**54–7**	**4.4b,4.2s**	**175**	**0-151**
NIED	IV	09 02 59 00	38.40N	141.80E	50	4.2W,4.2s		¶602553064
MOS	IV	09 02 59 30.9–1.0	38.37N	141.70E	35	4.6b,4.2s		
NEIC	IV	09 02 59 34.1–.31	38.62N	141.81E	35	4.6b,4.2s		
ISCJB	IV	09 02 59 34.6–.42	38.50N–.03	141.80E–.04	61–3	4.4b,4.2s		
JMA	IV	09 02 59 35.5–.10	38.43N	141.80E	57–1	4.3,4.2s		
IDC	IV	09 02 59 36.4–2.3	38.41N	141.76E	67–21	4.3,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ28.00000°,λ59.00000°. NP2:ϕ_s73.00000°,δ66.00000°,λ105.00000°. $M_0$2.24000×10^{15}

MOS Error ellipse: s-maj=10.8km s-min=5.8km az=102.2.

NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.7km az=121.0. Recorded [3 JMA] in Miyagi.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=36.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=16.6km s-min=13.2km az=97.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 03 32 58.9–1.3**	**36.51N–.04**	**140.93E–.06**	**26–9**	**4.0b**	**38**	**0-147**
NIED	IV	09 03 32 00	36.50N	140.90E	23	4.0W		¶16415760
ISCJB	IV	09 03 32 57.2–.86	36.45N–.04	141.01E–.06	27–5	4.0b		
JMA	IV	09 03 32 58.2–.10	36.47N	140.94E	33–1	4.0		
IDC	IV	09 03 33 02.8–2.2	36.35N	140.74E	63–20	4.0,3.9		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ64.00000°,λ163.00000°. NP2:ϕ_s26.00000°,δ75.00000°,λ27.00000°. $M_0$1.12000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.4km az=24.8.

JMA Event type fe.

IDC Error ellipse: s-maj=18.5km s-min=14.7km az=89.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 03 39 00.7–1.4**	**38.40N–.06**	**141.9E–.10**	**49–12**	**3.7b**	**32**	**0-146**
ISCJB	IV	09 03 39 00.1–.82	38.39N–.04	141.86E–.09	60–6	3.8b		¶17200307
NIED	IV	09 03 39 00	38.40N	141.80E	50	4.0W		
JMA	IV	09 03 39 01.0–.10	38.40N	141.80E	56–1	3.9		
IDC	IV	09 03 39 01.3–3.6	38.36N	141.79E	56–33	3.8,3.8		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.7km az=14.5.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ34.00000°,λ74.00000°. NP2:ϕ_s51.00000°,δ58.00000°,λ100.00000°. $M_0$9.84000×10^{14}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=22.7km s-min=16.9km az=92.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**09 04 17 55.0–.10**	**38.75N**	**142.37E**	**38–2**	**3.6**		
NIED	IV	09 04 17 00	38.70N	142.40E	50	4.2W		¶600581649

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ19.00000°,λ159.00000°. NP2:ϕ_s139.00000°,δ83.00000°,λ72.00000°. $M_0$2.13000×10^{15}

(228) Near east coast of eastern Honshu

JMA	**IV**	**09 04 58 03.5–.10**	**38.37N**	**141.77E**	**58–1**	**3.9**		
								¶600581666

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 06 29 38.0–1.5**	**38.97N–.04**	**142.55E–.05**	**7–8**	**4.2b**	**73**	**1-88**
NIED	IV	09 06 29 00	39.00N	142.60E	8	4.1W		¶16512220
IDC	IV	09 06 29 36.9–.66	38.86N	142.73E	0	4.2,4.1		
ISCJB	IV	09 06 29 37.7–1.0	38.97N–.03	142.63E–.05	16–6	4.1b,4.1		
MOS	IV	09 06 29 39.9–1.2	39.00N	142.69E	34	4.3b,4.1		
JMA	IV	09 06 29 39.1–.20	39.00N	142.56E	25–2	4.1,4.1		
NEIC	IV	09 06 29 42.5–.90	38.92N	142.65E	39–8	4.6b,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ54.00000°,λ-152.00000°. NP2:ϕ_s125.00000°,δ67.00000°,λ-40.00000°. $M_0$1.54000×10^{15}

IDC Error ellipse: s-maj=19.0km s-min=14.1km az=128.0.

ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.3km az=29.9.

MOS Error ellipse: s-maj=11.1km s-min=7.0km az=77.3.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=11.3km s-min=5.9km az=120.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 07 28 38.1–1.1**	**36.62N–.07**	**141.1E–.10**	**40–9**	**3.9b**	**40**	**0-83**
NIED	IV	09 07 28 00	36.60N	141.00E	50	3.9W		¶16415761
ISCJB	IV	09 07 28 37.1–.88	36.61N–.05	141.10E–.08	47–6	3.9b,3.4s		
JMA	IV	09 07 28 38.5–.10	36.65N	140.99E	48–1	3.8,3.4s		
IDC	IV	09 07 28 42.9–2.1	36.60N	140.86E	84–18	4.0,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ25.00000°,λ53.00000°. NP2:ϕ_s36.00000°,δ70.00000°,λ105.00000°. $M_0$9.08000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.9km az=30.9.

JMA Event type fe.

IDC Error ellipse: s-maj=17.7km s-min=13.9km az=109.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 08 02 18.6–.70**	**36.20N–.05**	**140.05E–.05**	**58–6**	**4.2b,3.5s**	**91**	**0-153**
NIED	IV	09 08 02 00	36.30N	140.10E	56	4.4W,3.5s		¶16415762
IDC	IV	09 08 02 11.3–.59	36.22N	139.97E	0	4.3,4.2		
ISCJB	IV	09 08 02 17.7–.39	36.18N–.03	140.12E–.05	66–3	4.1b,4.2		
MOS	IV	09 08 02 17.4–1.4	36.29N	140.11E	59	4.4b,4.2		
JMA	IV	09 08 02 19.0–.10	36.23N	140.09E	54–1	4.3,4.2		
NEIC	IV	09 08 02 19.3–.67	36.19N	140.08E	61–6	4.4b,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ23.00000°,λ132.00000°. NP2:ϕ_s54.00000°,δ73.00000°,λ74.00000°. $M_0$3.80000×10^{15}

IDC Error ellipse: s-maj=17.4km s-min=14.8km az=90.0.

ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.3km az=0.4.

MOS Error ellipse: s-maj=10.3km s-min=7.5km az=110.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s38.00000°,δ71.00000°,λ88.00000°. NP2:ϕ_s226.00000°,δ19.00000°,λ97.00000°. Principal axes: T Plg64.0000°,Azm304.0000°; N Plg2.0000°,Azm39.0000°; P Plg26.0000°,Azm130.0000°

NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.9km az=67.0. Recorded [4 JMA] in Ibaraki.

(229) Off east coast of Honshu

ISC	**IV**	**09 08 17 02.6–.52**	**37.88N–.05**	**142.59E–.05**	**14**	**4.0b,3.3s**	**70**	**1-151**
JMA	IV	09 08 17 00.1–.30	37.83N	142.72E	15–5	4.3,3.3s		¶16506256
NIED	IV	09 08 17 00	37.80N	142.70E	23	4.2W,3.3s		
IDC	IV	09 08 17 00.3–.64	37.83N	142.63E	0	4.1,4.0		
ISCJB	IV	09 08 17 00.9–.35	37.83N–.03	142.71E–.04	14	4.0b,3.4s		
MOS	IV	09 08 17 04.6–1.2	37.93N	142.61E	39	4.2b,3.4s		
NEIC	IV	09 08 17 04.5–2.9	37.90N	142.72E	26–20	4.2b,3.4s		

ISC Event type se.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ33.00000°,λ-58.00000°. NP2:ϕ_s201.00000°,δ62.00000°,λ-109.00000°. $M_0$2.15000×10^{15}

IDC Error ellipse: s-maj=19.2km s-min=14.1km az=119.0.

ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.2km az=141.3.

MOS Error ellipse: s-maj=10.5km s-min=7.2km az=84.5.

NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.1km az=118.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 08 53 28.4–1.8**	**36.67N–.04**	**141.22E–.05**	**7–11**	**4.3b**	**84**	**1-152**
NIED	IV	09 08 53 00	36.60N	141.20E	8	4.0W		¶600581763
IDC	IV	09 08 53 27.2–.50	36.63N	141.09E	0	4.4,4.3		
ISCJB	IV	09 08 53 29.1–.76	36.64N–.03	141.24E–.05	24–5	4.3b,4.3		
JMA	IV	09 08 53 29.7–.10	36.64N	141.20E	37–1	4.3,4.3		
NEIC	IV	09 08 53 30.5–1.4	36.66N	141.14E	20–10	4.5b,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ53.00000°,λ-135.00000°. NP2:ϕ_s45.00000°,δ55.00000°,λ-47.00000°. $M_0$1.28000×10^{15}

IDC Error ellipse: s-maj=13.7km s-min=11.7km az=123.0.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=11.3.

JMA Event type fe.

NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=115.0.

(45) California-Baja California border region

ISC	**IV**	**09 08 58 48.3–.59**	**32.62N–.02**	**115.73W–.02**	**11–4**		**140**	**0-11**
IASPE	IV	09 08 58 48.2–.82	32.67N–.02	115.72W–.02	18–2			¶16415763
ISCJB	IV	09 08 58 48.4–.28	32.65N–.02	115.69W–.02	14–2			
NEIC	IV	09 08 58 49.9	32.63N	115.73W	4	4.1,4.1L		
ECX	IV	09 08 58 49.9–.74	32.63N	115.73W	4	4.1L,3.9		
MEX	IV	09 08 58 50.5–1.2	32.68N	115.63W	20–261	4.1,3.9		

ISC Event type fe.

IASPE Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=3.0. GT5 selection from ISC bulletin. GT5 identified by Bond˜jr and McLaughlin (2009) selection criteria. Bond˜jr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=174.8.

NEIC Event type fe. Felt [III] at Mexicali. Also felt at Tecate. Felt [II] at Calexico, El Centro and Imperial, California. Also felt at Blythe, Bonita, Chula Vista, Coronado, El Cajon, Heber, Holtville, Pauma Valley, Ramona, San Diego and San Ysidro. After ECX.

ECX Error ellipse: s-maj=1.3km s-min=1.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_s239.29000°,δ60.00000°,λ-90.00000°.

MEX Error ellipse: s-maj=40.1km s-min=19.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 09 01 41.9–.89**	**36.96N–.03**	**140.54E–.04**	**16–6**	**3.8b,3.2s**	**43**	**0-91**
NIED	IV	09 09 01 00	36.90N	140.70E	20	4.0W,3.2s		¶16416708
ISCJB	IV	09 09 01 41.8–.46	36.93N–.03	140.69E–.04	26–3	3.8b,3.0s		
JMA	IV	09 09 01 42.6	36.94N	140.61E	17–1	4.3,3.0s		
IDC	IV	09 09 01 46.5–1.6	36.51N	140.66E	75–16	3.9,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ26.00000°,λ-9.00000°. NP2:ϕ_s241.00000°,δ86.00000°,λ-115.00000°. $M_0$1.14000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=36.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ78.00000°,λ-107.00000°. NP2:ϕ_s120.00000°,δ20.00000°,λ-36.00000°. Principal axes: T Plg31.0000°,Azm348.0000°; N Plg16.0000°,Azm248.0000°; P Plg54.0000°,Azm134.0000°

IDC Error ellipse: s-maj=15.1km s-min=9.2km az=65.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 09 40 47.6–2.5**	**36.43N–.09**	**141.1E–.10**	**25–13**	**3.7b**	**23**	**0-60**
JMA	IV	09 09 40 48.7–.10	36.41N	141.00E	44–1	3.7		¶17200320
IDC	IV	09 09 40 50.8–1.7	37.25N	140.51E	0	3.7,3.6		

ISC Event type ke.

JMA Event type fe.

IDC Error ellipse: s-maj=36.1km s-min=24.4km az=66.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 09 42 20.7–.31**	**38.32N–.03**	**141.78E–.03**	**58–2**	**5.2b,4.7s**	**1189**	**0-160**
NIED	IV	09 09 42 00	38.20N	141.80E	68	5.4W,4.7s		¶16415798
MOS	IV	09 09 42 19.0–.84	38.50N	141.74E	44	5.4b,4.4s		
BJI	IV	09 09 42 19.0	38.20N	141.62E	59	5.2b,5.1b		
JMA	IV	09 09 42 20.3–.10	38.25N	141.81E	58–1	5.4,5.1b		
IDC	IV	09 09 42 20.9–1.4	38.32N	141.79E	57–12	4.9,4.7		
ISCJB	IV	09 09 42 20.5–.27	38.29N–.02	141.71E–.02	66–2	5.1b,4.7		
NEIC	IV	09 09 42 21.9–.36	38.28N	141.70E	65–3	5.4b,4.7		
GCMT	IV	09 09 42 21.9–.20	38.37N	141.81E	62–1	5.3W,4.7		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ53.00000°,λ156.00000°. NP2:ϕ_s162.00000°,δ71.00000°,λ39.00000°. $M_0$1.21000×10^{17}

MOS Error ellipse: s-maj=5.6km s-min=3.7km az=97.8.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=9.9km s-min=8.6km az=88.0.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=160.1.

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=140.0. Recorded [5L JMA] in Miyagi.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c127; s110,c200; Duration: 1ş1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.39±.02 $M_{\theta\theta}$0.73±.02; $M_{\phi\phi}$-1.12±.02; $M_{r\theta}$0.21±.02; $M_{\theta\phi}$-0.66±.02; $M_{\phi r}$-0.57±.02; Best double couple: NP1:ϕ_s157.00000°,δ81.00000°,λ32.00000°. NP2:ϕ_s61.00000°,δ58.00000°,λ169.00000°. Principal axes: T 1.1440,Plg29.0000°,Azm24.0000°; N 0.3120,Plg56.0000°,Azm172.0000°

; P -1.4560,Plg15.0000°,Azm285.0000° $M_0$1.30000×10^{17}

(135) Near coast of central Chile

ISC	**IV**	**09 10 02 33.1–.68**	**34.71S–.03**	**71.78W–.05**	**28–4**	**4.3b**	**41**	**0-153**
NEIC	IV	09 10 02 34.0	34.75S	71.77W	45	4.3		**¶16532006**
IDC	IV	09 10 02 34.7–.83	34.67S	71.60W	43–5	4.1L,3.9		
GUC	IV	09 10 02 34.3–.68	34.76S	71.78W	45–4	4.3L,3.9		

ISC Event type fe.

NEIC Event type fe. Felt [III] at Constitucion, Curico, Iloca, Linares, Pencahue, Pichilemu and Talca and [II] at Rancagua. After GUC.

IDC Error ellipse: s-maj=29.2km s-min=15.2km az=82.0.

GUC Error ellipse: s-maj=2.6km s-min=4.4km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 11 30 04.9–2.9**	**38.11N–.04**	**142.09E–.07**	**23–19**	**3.8b**	**37**	**1-89**
NIED	IV	09 11 30 00	38.20N	142.10E	53	3.8W		**¶17200330**
ISCJB	IV	09 11 30 05.6–1.1	38.13N–.03	142.13E–.09	42–10	3.7b		
JMA	IV	09 11 30 06.3–.20	38.18N	142.09E	44–2	4.0		
IDC	IV	09 11 30 08.0–2.4	38.12N	142.09E	48–24	3.7,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ50.00000°,λ-125.00000°. NP2:ϕ_s127.00000°,δ52.00000°,λ-56.00000°. $M_0$5.97000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.8km az=5.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=23.2km s-min=14.4km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 11 53 33.0–1.7**	**38.22N–.05**	**142.0E–.10**	**52–14**	**3.6b**	**27**	**1-58**
IDC	IV	09 11 53 23.6–2.6	38.41N	142.70E	0	3.6,3.6b		**¶17200334**
ISCJB	IV	09 11 53 33.2–1.1	38.25N–.04	141.9E–.10	66–7	3.5b,3.6b		
JMA	IV	09 11 53 34.2–.10	38.27N	141.83E	59–1	3.6,3.6b		

ISC Event type ke.

IDC Error ellipse: s-maj=65.3km s-min=27.9km az=65.0.

ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=6.5km az=10.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(123) Northern Chile

ISC	**IV**	**09 11 59 28.7–.57**	**20.55S–.04**	**69.37W–.08**	**93–5**	**4.1b**	**49**	**0-153**
ISCJB	IV	09 11 59 28.4–.35	20.61S–.03	69.33W–.08	103–4	3.9b		**¶16529587**
NEIC	IV	09 11 59 28.0	20.51S	69.67W	78	4.4b		
GUC	IV	09 11 59 28.8–.38	20.51S	69.67W	78–4	4.1L		
IDC	IV	09 11 59 29.0–.70	20.44S	69.34W	83–4	4.2,4.0		
SCB	IV	09 11 59 34.4–.77	20.09S	68.86W	100	3.8L,4.0		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=4.9km az=11.5.

NEIC Event type fe. Felt [III] at Alto Hospicio, Camina and Iquique; [II] at Huara, La Tirana, Mamina and Pozo Almonte. After GUC.

GUC Error ellipse: s-maj=1.0km s-min=4.4km az=-1.0.

IDC Error ellipse: s-maj=21.7km s-min=16.3km az=11.0.

SCB Event type ke. Error ellipse: s-maj=25.3km s-min=6.7km az=59.0.

(716) Kyrgyzstan

ISC	**IV**	**09 12 30 25.9–.79**	**42.05N–.02**	**74.78E–.01**	**18–3**	**4.4b,3.9s**	**281**	**0-154**
IDC	IV	09 12 30 22.8–.45	41.92N	74.81E	0	4.5,4.4		**¶16506260**
KNET	IV	09 12 30 24.8–.38	42.06N	74.83E	18–2	4.7L,4.4		
KRNET	IV	09 12 30 24.8–.10	42.06N	74.82E	16	5.1b,4.4		
BJI	IV	09 12 30 24.9	42.23N	74.67E	27	4.7L,4.6b		
NEIC	IV	09 12 30 25.6–1.6	42.07N	74.82E	14–9	4.9b,4.6b		
SOME	IV	09 12 30 25.9	42.08N	74.82E	10	3.8s,4.6b		
ISCJB	IV	09 12 30 25.7–.34	42.01N–.02	74.74E–.02	24–2	4.3b,3.9s		
NNC	IV	09 12 30 25.4–1.0	42.14N	74.86E	0	5.2b,4.8		
MOS	IV	09 12 30 27.7–1.1	42.29N	74.74E	31	4.7b,4.8		

ISC Event type fe.

IDC Error ellipse: s-maj=9.5km s-min=8.6km az=42.0.

KNET Error ellipse: s-maj=3.9km s-min=1.9km az=16.0.

NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=5.3km az=172.0. Felt [III] at Bishkek.

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=170.9.

NNC Event type se. Error ellipse: s-maj=9.2km s-min=4.2km az=155.0.

MOS Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=97.3. Felt (III) at Bishkek. Moment Tensor Solution.

(227) Eastern Honshu

ISC	**IV**	**09 12 47 50.4–.93**	**35.99N–.04**	**139.67E–.07**	**45–8**	**3.9b**	**41**	**0-79**
NIED	IV	09 12 47 00	36.00N	139.60E	53	4.0W		**¶16506261**
ISCJB	IV	09 12 47 49.5–.52	35.99N–.03	139.66E–.07	54–4	3.8b		
JMA	IV	09 12 47 50.9–.10	36.00N	139.64E	43–1	4.1		
IDC	IV	09 12 47 51.3–1.9	35.97N	139.59E	52–18	3.8,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ72.00000°,λ1.00000°. NP2:ϕ_s49.00000°,δ89.00000°,λ162.00000°. $M_0$9.70000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.9km az=173.5.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s136.00000°,δ86.00000°,λ30.00000°. NP2:ϕ_s44.00000°,δ60.00000°,λ175.00000°. Principal axes: T Plg24.0000°,Azm4.0000°; N Plg59.0000°,Azm143.0000°; P Plg18.0000° ,Azm266.0000°

IDC Error ellipse: s-maj=18.7km s-min=13.9km az=83.0.

(239) Southeast of Ryukyu Islands

ISC	**IV**	**09 12 57 50.1–.33**	**30.02N–.02**	**131.85E–.02**	**26–2**	**6.0b,5.7s**	**1902**	**1-174**
NIED	IV	09 12 57 00	30.00N	131.80E	20	5.8W,5.7s		**¶16415851**
ISCJB	IV	09 12 57 46.3–.50	30.00N–.01	131.81E–.01	10–3	6.0b,5.7s		
NEIC	IV	09 12 57 47.8–.07	30.00N	131.78E	11	6.1b,6.0		
BJI	IV	09 12 57 47.0	29.90N	131.77E	24	6.0,6.0s		
GCMT	IV	09 12 57 48.8–.10	30.04N	131.84E	12–0	6.0W,6.0s		
MOS	IV	09 12 57 49.6–1.0	30.06N	131.81E	33	6.2b,5.8s		
JMA	IV	09 12 57 49.4–.10	30.02N	131.84E	62–3	5.8,5.8s		
NEIC	IV	09 12 57 49.0–.00	30.01N	132.01E	21	5.8,5.8s		
IDC	IV	09 12 57 51.5–.46	30.05N	131.83E	34–3	5.7,5.6		
NEIC	IV	09 12 58 06.6–.00	30.04N	131.89E	10	5.7,5.6		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ47.00000°,λ-121.00000°. NP2:ϕ_s210.00000°,δ51.00000°,λ-61.00000°. $M_0$5.88000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.7km az=135.1.

NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=119.0. Felt at Kagoshima and Makurazaki, Kyushu. Also felt at P'yongt'aek, South Korea. Recorded [3 JMA] in Kagoshima. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s198.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm288.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000° ,Azm108.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c263; s128,c462;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.04±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$1.09±.01; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$0.18±.01; $M_{\theta r}$0.35±.02; Best double couple: NP1:ϕ_s199.00000°,δ56.00000°,λ-78.00000°. NP2:ϕ_s358.00000° ,δ36.00000°,λ-107.00000°. Principal axes: T 1.1860,Plg10.0000°,Azm280.0000° ; N -0.0470,Plg10.0000°,Azm12.0000°; P -1.1420,Plg76.0000°,Azm146.0000° $M_0$1.16400×10^{18}

MOS Error ellipse: s-maj=6.5km s-min=3.6km az=108.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}-9.33 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$9.63 $M_{r\theta}$-1.10 $M_{\theta\phi}$1.46 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s15.00000° ,δ47.00000°,λ-80.00000°. NP2:ϕ_s182.00000°,δ44.00000°,λ-99.00000°. Principal axes: T 9.8600,Plg1.0000°,Azm98.0000°; N -0.3900,Plg6.0000°,Azm188.0000° ; P -9.4700,Plg83.0000°,Azm355.0000° $M_0$9.70000×10^{17}

IDC Error ellipse: s-maj=9.4km s-min=6.3km az=76.0.

NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.09 $M_{\theta\theta}$0.07 $M_{\phi\phi}$1.02 $M_{r\theta}$0.18 $M_{\theta\phi}$0.19 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s203.00000° ,δ34.00000°,λ-70.00000°. NP2:ϕ_s359.00000°,δ58.00000°,λ-103.00000°. Principal axes: T 1.1600,Plg12.0000°,Azm98.0000°; N 0.0900,Plg11.0000°,Azm6.0000° ; P -1.2500,Plg73.0000°,Azm234.0000° $M_0$1.20000×10^{18}

(135) Near coast of central Chile

ISC	**IV**	**09 13 32 41.2–1.0**	**36.45S–.03**	**73.18W–.07**	**31–6**	**4.6b**	**92**	**0-178**
ISCJB	IV	09 13 32 36.9–1.1	36.39S–.03	73.47W–.06	8–6	4.6b		**¶16415852**
IDC	IV	09 13 32 37.4–.63	36.36S	73.11W	0	4.4,4.3		
BJI	IV	09 13 32 39.2	36.08S	73.24W	29	5.0s,4.9b		
NEIC	IV	09 13 32 41.0	36.47S	73.19W	14	4.7b,4.3L		
GUC	IV	09 13 32 41.5–.46	36.47S	73.19W	14–7	4.3L,4.3L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.6km az=8.5.

IDC Error ellipse: s-maj=23.2km s-min=17.3km az=73.0.

NEIC Event type fe. Felt [V] at Concepcion and Penco; [IV] at Coelemu, Coronel, Hualpen and Tome; [III] at Arauco, Cabrero, Cauquenes, Cobquecura, Contulmo, La Laja, Lebu, Linares, Longavi, Los Alamos, Mulchen, Parral, Pelluhue, Quilaco, San Clemente, San Rosendo and Yumbel; [II] at Angol, Chanco, Constitucion and Talca. After GUC.

GUC Error ellipse: s-maj=1.4km s-min=4.2km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**09 14 29 41.4–1.0**	**36.15N–.05**	**139.80E–.05**	**50–9**	**3.5b**	**21**	**0-60**
IDC	IV	09 14 29 32.7–1.9	36.34N	140.34E	0	3.9s,3.9		**¶600581936**
ISCJB	IV	09 14 29 40.5–.66	36.13N–.05	139.83E–.07	58–5	3.9s,3.5b		
JMA	IV	09 14 29 41.3–.10	36.13N	139.83E	50–1	3.3,3.5b		

ISC Event type ke.

IDC Error ellipse: s-maj=46.4km s-min=21.6km az=44.0.

ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=7.5km az=17.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s48.00000°,δ59.00000°,λ90.00000°. NP2: ϕ_s228.00000°,δ31.00000°,λ90.00000°. Principal axes: T Plg76.0000°,Azm318.0000° ; N Plg0.0000°,Azm48.0000°; P Plg14.0000°,Azm138.0000°

(162) South Island

WEL	**IV**	**09 16 33 45.5–.18**	**43.54S**	**172.81E**	**7–0**	**3.5L**		**¶16416021**

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.9km az=90.0. Felt from Marlborough to Canterbury, maximum reported intensity MM 5.

(45) California-Baja California border region

ISC	**IV**	**09 16 46 40.5–.92**	**32.66N–.02**	**115.72W–.02**	**18–3**		**54**	**0-3**
ISCJB	IV	09 16 46 40.7–.30	32.66N–.02	115.71W–.02	20–3			**¶16577774**
MEX	IV	09 16 46 41.8–.94	32.78N	115.62W	16–73	3.5		
ECX	IV	09 16 46 42.4–.58	32.64N	115.75W	3	2.9L,2.7		
NEIC	IV	09 16 46 42.4	32.64N	115.75W	3	2.9L,2.9L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.4km az=7.7.

MEX Error ellipse: s-maj=64.5km s-min=50.0km az=-1.0.

ECX Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.

NEIC Event type fe. Felt at Calexico, California. After ECX.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 16 57 23.1–.54**	**38.37N–.05**	**142.84E–.06**	**23**	**4.1b,3.3s**	**51**	**1-145**
NIED	IV	09 16 57 00	38.50N	142.80E	8	4.1W,3.3s		**¶600582051**
JMA	IV	09 16 57 20.7–.30	38.45N	142.84E	6–4	4.6,3.3s		
ISCJB	IV	09 16 57 21.5–.43	38.39N–.05	142.96E–.05	23	4.1b,3.2s		
IDC	IV	09 16 57 26.4–2.2	38.25N	142.92E	52–20	4.1,4.0		
NEIC	IV	09 16 57 27.1–1.1	38.24N	142.92E	61–10	4.7b,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ38.00000°,λ-67.00000°. NP2:ϕ_s257.00000°,δ56.00000°,λ-107.00000°. $M_0$1.71000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.3km az=147.9.

IDC Error ellipse: s-maj=15.8km s-min=11.4km az=101.0.

NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.0km az=115.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 17 47 30.6–.76**	**35.48N–.05**	**140.08E–.06**	**70–6**	**3.5b**	**32**	**0-80**
ISCJB	IV	09 17 47 29.5–.41	35.45N–.04	140.08E–.06	77–3	3.5b		**¶17200357**
JMA	IV	09 17 47 29.7–.20	35.58N	140.12E	70–2	3.2		
IDC	IV	09 17 47 30.9–1.6	35.42N	140.02E	74–15	3.7,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.7km az=150.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=23.1km s-min=10.6km az=75.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 18 22 50.5–2.1**	**37.58N–.05**	**141.74E–.07**	**4–12**	**3.5b**	**25**	**1-68**
NIED	IV	09 18 22 00	37.60N	141.70E	11	3.5W		**¶17200359**
ISCJB	IV	09 18 22 50.8–1.4	37.57N–.04	141.80E–.09	17–9	3.5b		
IDC	IV	09 18 22 50.3–1.8	37.69N	141.72E	0	3.7,3.6		
JMA	IV	09 18 22 52.5–.10	37.58N	141.70E	27–2	3.9,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ62.00000°,λ11.00000°. NP2:ϕ_s11.00000°,δ80.00000°,λ151.00000°. $M_0$1.88000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.9km az=16.1.

IDC Error ellipse: s-maj=48.4km s-min=21.9km az=75.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 18 47 07.4–1.5**	**38.14N–.05**	**142.0E–.10**	**53–13**	**3.5b,3.2s**	**27**	**1-62**
IDC	IV	09 18 46 58.5–2.0	38.34N	142.55E	0	3.7,3.6		**¶17200360**
NIED	IV	09 18 47 00	38.20N	141.80E	86	4.6W,3.6		
ISCJB	IV	09 18 47 07.0–1.0	38.15N–.05	141.9E–.10	66–7	3.5b,3.6		
JMA	IV	09 18 47 08.5–.10	38.19N	141.83E	62–1	3.8,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=55.6km s-min=19.2km az=71.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ31.00000°,λ-171.00000°. NP2:ϕ_s348.00000°,δ85.00000°,λ-59.00000°. $M_0$8.47000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.0km az=12.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 18 49 17.4–.94**	**35.57N–.06**	**140.07E–.06**	**72–7**	**3.5b**	**25**	**0-59**
IDC	IV	09 18 49 15.4–1.0	34.83N	138.13E	0	3.6,3.5		**¶17200361**
ISCJB	IV	09 18 49 16.3–.55	35.56N–.05	140.09E–.07	78–4	3.4b,3.5		
JMA	IV	09 18 49 16.4–.20	35.68N	140.14E	67–2	3.2,3.5		

ISC Event type ke.

IDC Error ellipse: s-maj=39.1km s-min=14.8km az=63.0.

ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.9km az=145.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s356.00000°,δ73.00000°,λ102.00000°. NP2: ϕ_s139.00000°,δ21.00000°,λ55.00000°. Principal axes: T Plg60.0000°,Azm283.0000° ; N Plg12.0000°,Azm172.0000°; P Plg27.0000°,Azm76.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 21 23 05.8–.48**	**35.70N–.03**	**140.08E–.03**	**66–4**	**4.7b**	**302**	**0-153**
NIED	IV	09 21 23 00	35.80N	140.10E	68	4.6W		**¶16416024**
MOS	IV	09 21 23 01.1–.89	35.64N	140.04E	40	4.9b		
BJI	IV	09 21 23 02.9	35.69N	140.18E	66	4.9b,4.6b		
ISCJB	IV	09 21 23 05.1–.27	35.68N–.02	140.09E–.03	78–2	4.7b,4.6b		
NEIC	IV	09 21 23 05.9–.37	35.66N	140.04E	68–3	4.9b,4.6b		
JMA	IV	09 21 23 06.0–.20	35.80N	140.10E	67–2	4.4,4.6b		
IDC	IV	09 21 23 06.4–1.1	35.65N	140.09E	72–9	4.3,4.1		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ30.00000°,λ63.00000°. NP2:ϕ_s13.00000°,δ64.00000°,λ105.00000°. $M_0$8.42000×10^{15}

MOS Error ellipse: s-maj=9.2km s-min=5.4km az=102.4.

ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=167.8.

NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=111.0. Felt at Narita. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama, Tochigi and Tokyo.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s9.00000°,δ68.00000°,λ89.00000°. NP2: ϕ_s192.00000°,δ22.00000°,λ93.00000°. Principal axes: T Plg67.0000°,Azm277.0000° ; N Plg1.0000°,Azm10.0000°; P Plg23.0000°,Azm100.0000°

IDC Error ellipse: s-maj=12.1km s-min=6.1km az=71.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**09 22 49 44.4–1.6**	**40.40N–.06**	**142.1E–.10**	**51–11**	**3.8b**	**24**	**0-71**
NIED	IV	09 22 49 00	40.40N	142.10E	104	4.7W		**¶17200384**
IDC	IV	09 22 49 36.2–1.7	40.51N	142.63E	0	3.7,3.7b		
ISCJB	IV	09 22 49 43.9–1.0	40.39N–.05	142.1E–.10	60–6	3.7b,3.7b		
JMA	IV	09 22 49 45.2–.10	40.36N	142.08E	50–1	3.8,3.7b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ44.00000°,λ26.00000°. NP2:ϕ_s217.00000°,δ72.00000°,λ131.00000°. $M_0$1.13000×10^{16}

IDC Error ellipse: s-maj=46.2km s-min=24.2km az=77.0.

ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=8.3km az=169.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 00 08 34.4–.96**	**37.68N–.03**	**141.77E–.05**	**8–5**	**4.2b**	**67**	**1-146**
NIED	IV	10 00 08 00	37.70N	141.80E	8	4.1W		**¶600582309**
ISCJB	IV	10 00 08 31.9–.94	37.67N–.03	141.89E–.04	1–5	4.1b,3.0s		

IDC	IV	10 00 08 33.1–.64	37.68N	141.77E	0	4.1,4.0			
JMA	IV	10 00 08 34.5–.10	37.70N	141.80E	20–2	4.2,4.0			
NEIC	IV	10 00 08 36.1–3.7	37.62N	141.87E	20–23	4.4b,4.0			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ45.00000°,λ-59.00000°. NP2:ϕ_s258.00000°,δ52.00000°,λ-118.00000°. $M_0$1.45000×10^{15}								
ISCJB	Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=41.1.								
IDC	Error ellipse: s-maj=19.1km s-min=15.1km az=109.0.								
JMA	Event type fe.								
NEIC	Event type se. Error ellipse: s-maj=11.2km s-min=8.2km az=122.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 00 50 46.4–.51**	**36.61N–.04**	**140.72E–.04**	**50–4**	**4.6b,3.4s**	**248**	**0-147**	
NIED	IV	10 00 50 00	36.50N	140.70E	53	4.4W,3.4s		**¶16416029**	
MOS	IV	10 00 50 43.5–1.1	36.53N	140.62E	39	4.8b,3.4s			
ISCJB	IV	10 00 50 45.7–.33	36.57N–.03	140.75E–.03	60–2	4.6b,3.5s			
BJI	IV	10 00 50 45.9	36.57N	140.66E	66	4.8b,4.6b			
JMA	IV	10 00 50 46.2–.10	36.51N	140.74E	52–1	4.2,4.6b			
IDC	IV	10 00 50 48.4–1.6	36.53N	140.68E	66–14	4.4,4.2			
NEIC	IV	10 00 50 48.8–.62	36.71N	140.63E	72–6	4.6b,4.2			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ45.00000°,λ74.00000°. NP2:ϕ_s334.00000°,δ47.00000°,λ106.00000°. $M_0$4.45000×10^{15}								
MOS	Error ellipse: s-maj=9.6km s-min=5.1km az=102.9.								
ISCJB	Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=40.1.								
JMA	Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s147.00000°,δ45.00000°,λ82.00000°. NP2:ϕ_s339.00000°,δ45.00000°,λ98.00000°. Principal axes: T Plg84.0000°,Azm333.0000°; N Plg6.0000°,Azm153.0000°; P Plg0.0000°,Azm243.0000°								
IDC	Error ellipse: s-maj=12.9km s-min=8.3km az=74.0.								
NEIC	Event type se. Error ellipse: s-maj=6.3km s-min=5.1km az=129.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 02 01 27.3–.90**	**38.66N–.10**	**142.2E–.10**	**39–6**	**3.5b**	**22**	**1-82**	
ISCJB	IV	10 02 01 26.7–1.4	38.66N–.07	142.2E–.10	47–10	3.4b		**¶16706220**	
JMA	IV	10 02 01 27.1–.10	38.67N	142.17E	39–2	3.8			
IDC	IV	10 02 01 30.4–7.7	38.42N	142.13E	79–52	3.5,3.4			
ISC	Event type ke.								
ISCJB	Event type fe. Error ellipse: s-maj=17.1km s-min=9.1km az=30.2.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
IDC	Error ellipse: s-maj=77.4km s-min=20.0km az=174.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 02 01 27.8–.55**	**36.32N–.04**	**141.03E–.06**	**21–3**	**4.2b**	**74**	**0-147**	
ISCJB	IV	10 02 01 28.4–.57	36.30N–.03	141.09E–.05	40–4	4.1b,3.0s		**¶17200402**	
JMA	IV	10 02 01 28.8–.10	36.31N	141.04E	46–1	4.1,3.0s			
NEIC	IV	10 02 01 28.5–1.6	36.29N	141.02E	27–11	4.4b,3.0s			
IDC	IV	10 02 01 30.3–3.1	36.23N	140.95E	40–28	4.0,4.0L			
ISC	Event type se.								
ISCJB	Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=177.6.								
JMA	Event type fe.								
NEIC	Event type se. Error ellipse: s-maj=6.7km s-min=5.4km az=88.0.								
IDC	Error ellipse: s-maj=19.2km s-min=15.6km az=65.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 02 29 25.9–1.9**	**38.39N–.06**	**142.0E–.10**	**43–19**	**3.6b**	**30**	**1-146**	
NIED	IV	10 02 29 00	38.40N	141.80E	56	4.4W		**¶17200406**	
ISCJB	IV	10 02 29 25.9–.87	38.39N–.04	141.9E–.10	60–8	3.5b			
JMA	IV	10 02 29 26.8–.10	38.40N	141.83E	56–1	3.8			
IDC	IV	10 02 29 27.9–4.3	38.34N	141.91E	63–41	3.5,3.5			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ22.00000°,λ158.00000°. NP2:ϕ_s166.00000°,δ82.00000°,λ69.00000°. $M_0$4.50000×10^{15}								
ISCJB	Event type fe. Error ellipse: s-maj=14.7km s-min=6.3km az=12.9.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
IDC	Error ellipse: s-maj=38.5km s-min=19.2km az=105.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 02 49 18.9–1.4**	**38.23N–.05**	**141.87E–.10**	**51–12**	**3.9b**	**43**	**0-146**	
NIED	IV	10 02 49 00	38.30N	141.80E	65	4.0W		**¶17200408**	
ISCJB	IV	10 02 49 18.6–.74	38.25N–.04	141.82E–.09	62–6	3.8b			
JMA	IV	10 02 49 19.4–.10	38.27N	141.79E	56–1	4.0			
IDC	IV	10 02 49 20.4–2.7	38.19N	141.78E	67–25	3.9,3.8			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ52.00000°,λ144.00000°. NP2:ϕ_s172.00000°,δ62.00000°,λ44.00000°. $M_0$1.24000×10^{15}								
ISCJB	Event type fe. Error ellipse: s-maj=11.6km s-min=5.7km az=14.9.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
IDC	Error ellipse: s-maj=20.0km s-min=15.7km az=117.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 03 11 22.6–1.9**	**38.56N–.05**	**141.75E–.10**	**17–13**	**3.5b**	**21**	**0-59**	
IDC	IV	10 03 11 19.4–2.9	38.86N	141.79E	0	3.5,3.4b		**¶600582452**	
JMA	IV	10 03 11 23.9–.10	38.56N	141.80E	46–1	3.7,3.4b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=69.8km s-min=34.1km az=74.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 03 13 23.4–3.2**	**37.45N–.04**	**142.12E–.05**	**18–20**	**4.1b,3.3s**	**56**	**1-146**	
NIED	IV	10 03 13 00	37.50N	141.90E	44	4.1W,3.3s		**¶16532008**	
IDC	IV	10 03 13 19.9–.83	37.60N	142.46E	0	4.0,4.0b			
NEIC	IV	10 03 13 25.9–.95	37.47N	142.21E	40–8	4.4b,4.0b			
JMA	IV	10 03 13 26.5–.10	37.46N	141.94E	36–3	4.0,4.0b			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ5.00000°,λ-148.00000°. NP2:ϕ_s10.00000°,δ87.00000°,λ-86.00000°. $M_0$1.60000×10^{15}								
IDC	Error ellipse: s-maj=20.3km s-min=17.0km az=95.0.								
NEIC	Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=94.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 03 21 53.7–.93**	**36.18N–.04**	**140.02E–.05**	**54–7**	**3.2b**	**25**	**0-65**	
NIED	IV	10 03 21 00	36.20N	140.00E	77	3.5W		**¶17200411**	
IDC	IV	10 03 21 46.4–1.2	36.34N	140.34E	0	3.5,3.5L			
ISCJB	IV	10 03 21 52.7–.55	36.16N–.04	140.09E–.06	60–5	3.2b,3.5L			
JMA	IV	10 03 21 54.0–.10	36.18N	140.01E	51–1	3.5,3.5L			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ33.00000°,λ141.00000°. NP2:ϕ_s31.00000°,δ70.00000°,λ63.00000°. $M_0$1.82000×10^{14}								
IDC	Error ellipse: s-maj=25.1km s-min=22.6km az=44.0.								
ISCJB	Event type fe. Error ellipse: s-maj=8.3km s-min=5.7km az=20.4.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s40.00000°,δ77.00000°,λ80.00000°. NP2: ϕ_s257.00000°,δ16.00000°,λ126.00000°. Principal axes: T Plg57.0000°,Azm297.0000° ; N Plg10.0000°,Azm42.0000°; P Plg31.0000°,Azm138.0000°								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 03 38 20.5–1.2**	**35.77N–.07**	**140.9E–.10**	**9–9**	**3.4b**	**10**	**0-75**	
NIED	IV	10 03 38 00	35.70N	140.90E	8	3.7W		**¶600582470**	
ISCJB	IV	10 03 38 19.1–1.8	35.74N–.10	141.0E–.10	12–7	3.4b			
IDC	IV	10 03 38 19.6–3.3	34.96N	139.69E	0	3.5,3.3			
JMA	IV	10 03 38 20.8–.10	35.74N	140.89E	9–1	3.7,3.3			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ39.00000°,λ-83.00000°. NP2:ϕ_s175.00000°,δ52.00000°,λ-96.00000°. $M_0$3.92000×10^{14}								
ISCJB	Event type fe. Error ellipse: s-maj=19.2km s-min=15.7km az=161.4.								
IDC	Error ellipse: s-maj=137.0km s-min=25.2km az=68.0.								
JMA	Event type fe.								
	(135) Near coast of central Chile								
ISC	**IV**	**10 03 44 36.1–.50**	**34.76S–.03**	**71.97W–.05**	**41–4**	**4.1b**	**63**	**0-157**	
ISCJB	IV	10 03 44 35.9–.44	34.77S–.03	71.94W–.06	50–4	4.1b,3.5s		**¶16532009**	
GUC	IV	10 03 44 36.0–.64	34.75S	71.90W	40–2	4.5L,3.5s			
NEIC	IV	10 03 44 36.0	34.75S	71.90W	40	4.2b,3.5s			
IDC	IV	10 03 44 36.5–.56	34.74S	71.70W	40–3	4.3L,4.1			
ISC	Event type fe.								
ISCJB	Event type fe. Error ellipse: s-maj=8.0km s-min=4.7km az=19.5.								
GUC	Error ellipse: s-maj=1.5km s-min=2.8km az=-1.0.								
NEIC	Event type fe. Felt [III] at Chepica, Chimbarongo, Curico, Iloca, Lolol, Molina, Paredones, Pichilemu, Rancagua, Rio Claro, Romeral, San Fernando, Santa Cruz and Talca; [II] at Cauquenes, Navidad, Pelluhue, Santiago and Yerbas Buenas. After GUC.								
IDC	Error ellipse: s-maj=22.0km s-min=13.9km az=68.0.								
	(137) San Juan Province								
ISC	**IV**	**10 03 59 39.2–.39**	**30.54S–.03**	**68.87W–.04**	**115–3**	**4.6b**	**586**	**1-177**	
IDC	IV	10 03 59 35.6–.51	30.55S	68.83W	78–3	4.6,4.4		**¶16416034**	
BJI	IV	10 03 59 35.4	30.50S	68.60W	79	5.2s,5.0			
NEIC	IV	10 03 59 35.6–.59	30.53S	68.60W	82–4	4.8b,4.4			
ISCJB	IV	10 03 59 36.9–.31	30.39S–.03	68.65W–.05	102–2	4.6b,4.4			
GUC	IV	10 03 59 38.6–.56	30.26S	68.83W	21–7	4.5L,4.4			
SJA	IV	10 03 59 38.1–.93	30.55S	68.89W	101–11	4.6L,4.3W			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=17.2km s-min=12.6km az=60.0.								
NEIC	Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=63.0. Felt [III] at San Juan.								
ISCJB	Event type fe. Error ellipse: s-maj=7.8km s-min=3.8km az=152.1.								
GUC	Error ellipse: s-maj=5.0km s-min=4.0km az=-1.0.								
SJA	Error ellipse: s-maj=2.1km s-min=3.8km az=-1.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 04 12 30.4–.44**	**36.27N–.03**	**141.28E–.05**	**28–2**	**4.3b,3.5s**	**169**	**1-147**	
NIED	IV	10 04 12 00	36.30N	141.20E	32	4.3W,3.5s		**¶16416035**	
MOS	IV	10 04 12 28.9–.99	36.28N	141.33E	35	4.6b,3.5s			
ISCJB	IV	10 04 12 29.8–.54	36.26N–.03	141.26E–.04	38–4	4.3b,3.4s			
JMA	IV	10 04 12 30.6–.10	36.26N	141.15E	48–2	4.2,3.4s			
NEIC	IV	10 04 12 31.4–.64	36.26N	141.17E	34–4	4.5b,3.4s			
IDC	IV	10 04 12 31.9–.48	36.19N	141.12E	40–4	4.2L,4.1			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ34.00000°,λ-29.00000°. NP2:ϕ_s249.00000°,δ74.00000°,λ-121.00000°. $M_0$3.53000×10^{15}								
MOS	Error ellipse: s-maj=8.9km s-min=6.2km az=107.4.								
ISCJB	Event type fe. Error ellipse: s-maj=6.1km s-min=4.3km az=17.9.								
JMA	Event type fe.								
NEIC	Event type se. Error ellipse: s-maj=6.2km s-min=4.2km az=142.0.								
IDC	Error ellipse: s-maj=13.4km s-min=8.3km az=104.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 04 18 03.3–2.2**	**35.75N–.10**	**140.9E–.20**	**11–7**	**3.6b**	**11**	**0-56**	
NIED	IV	10 04 18 00	35.70N	140.90E	8	3.8W		**¶17200419**	
IDC	IV	10 04 18 03.5–1.3	35.46N	140.53E	0	3.7,3.5b			
ISCJB	IV	10 04 18 04.2–.73	35.75N–.07	140.81E–.08	9–5	3.6b,3.5b			
JMA	IV	10 04 18 04.0–.20	35.74N	140.89E	9–1	3.8,3.5b			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ36.00000°,λ-103.00000°. NP2:ϕ_s188.00000°,δ55.00000°,λ-81.00000°. $M_0$4.92000×10^{14}								
IDC	Error ellipse: s-maj=31.7km s-min=29.9km az=84.0.								
ISCJB	Event type fe. Error ellipse: s-maj=13.6km s-min=8.2km az=41.4.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 04 30 12.8–1.7**	**36.84N–.09**	**141.2E–.20**	**37–3**	**3.3b**	**20**	**0-57**	
NIED	IV	10 04 30 00	36.90N	141.10E	53	3.5W		**¶17200421**	
IDC	IV	10 04 30 06.4–2.6	36.87N	141.56E	0	3.5,3.4			
ISCJB	IV	10 04 30 12.5–1.3	36.83N–.08	141.2E–.10	47–8	3.3b,3.4			
JMA	IV	10 04 30 14.1–.10	36.88N	141.06E	50–1	3.6,3.4			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ25.00000°,λ174.00000°. NP2:ϕ_s14.00000°,δ88.00000°,λ66.00000°. $M_0$1.86000×10^{14}								
IDC	Error ellipse: s-maj=65.5km s-min=29.2km az=60.0.								
ISCJB	Event type fe. Error ellipse: s-maj=17.8km s-min=8.6km az=36.3.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
	(229) Off east coast of Honshu								
ISC	**IV**	**10 05 23 29.3–.66**	**37.07N–.04**	**143.45E–.04**	**28–4**	**4.6b,4.1s**	**437**	**2-145**	
NIED	IV	10 05 23 00	37.10N	143.30E	11	4.3W,4.1s		**¶16416039**	
IDC	IV	10 05 23 25.0–.52	36.99N	143.47E	0	4.5,4.5			
BJI	IV	10 05 23 26.3	37.09N	143.84E	40	4.8b,4.6b			
ISCJB	IV	10 05 23 27.5–1.0	37.05N–.03	143.33E–.02	25–7	4.5b,4.1s			
NEIC	IV	10 05 23 28.4–1.5	36.93N	143.43E	21–11	4.7b,4.1s			
MOS	IV	10 05 23 28.8–.82	37.27N	143.33E	26	4.9b,4.1s			
JMA	IV	10 05 23 29.1–.20	37.06N	143.29E	57	4.3,4.1s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ37.00000°,λ-124.00000°. NP2:ϕ_s41.00000°,δ60.00000°,λ-67.00000°. $M_0$2.98000×10^{15}								
IDC	Error ellipse: s-maj=13.4km s-min=11.6km az=140.0.								
ISCJB	Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=171.4.								
NEIC	Event type se. Error ellipse: s-maj=5.2km s-min=4.3km az=142.0.								
MOS	Error ellipse: s-maj=8.4km s-min=5.8km az=99.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 06 30 23.6–1.4**	**36.01N–.06**	**140.98E–.09**	**24–9**	**3.7b**	**16**	**0-57**	
NIED	IV	10 06 30 00	36.00N	141.00E	29	3.6W		**¶600582565**	
IDC	IV	10 06 30 19.4–1.2	35.87N	141.09E	0	3.9L,3.8			
ISCJB	IV	10 06 30 22.8–.98	35.99N–.06	141.01E–.08	32–5	3.7b,3.8			
JMA	IV	10 06 30 23.1–.10	35.97N	141.01E	34–1	3.6,3.8			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ13.00000°,λ-15.00000°. NP2:ϕ_s2.00000°,δ87.00000°,λ-103.00000°. $M_0$2.89000×10^{14}								
IDC	Error ellipse: s-maj=34.3km s-min=22.6km az=67.0.								
ISCJB	Event type fe. Error ellipse: s-maj=12.8km s-min=8.2km az=144.9.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
	(229) Off east coast of Honshu								
ISC	**IV**	**10 06 37 27.0–1.9**	**37.92N–.05**	**142.27E–.06**	**13–11**	**3.9b**	**34**	**1-146**	
IDC	IV	10 06 37 25.1–.68	37.93N	142.21E	0	4.2,4.0		**¶17200432**	
JMA	IV	10 06 37 29.3–.30	37.96N	142.25E	31–5	4.1,4.0			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=20.3km s-min=15.5km az=121.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
	(228) Near east coast of eastern Honshu								
ISC	**IV**	**10 07 19 58.0–.77**	**38.70N–.06**	**142.12E–.08**	**41**	**3.6b**	**19**	**1-89**	
NIED	IV	10 07 19 00	38.70N	142.20E	62	3.8W		**¶17200435**	
IDC	IV	10 07 19 53.1–.94	38.91N	142.16E	0	3.7,3.5			
ISCJB	IV	10 07 19 56.8–.64	38.75N–.06	142.16E–.07	41	3.5b,3.5			
JMA	IV	10 07 19 56.8–.10	38.73N	142.18E	37–2	3.8,3.5			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ35.00000°,λ-3.00000°. NP2:ϕ_s63.00000°,δ88.00000°,λ-125.00000°. $M_0$6.26000×10^{14}								
IDC	Error ellipse: s-maj=35.5km s-min=20.3km az=126.0.								
ISCJB	Event type fe. Error ellipse: s-maj=9.0km s-min=6.9km az=156.2.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
	(227) Eastern Honshu								
ISC	**IV**	**10 08 52 29.8–.88**	**37.10N–.03**	**140.73E–.05**	**6–6**	**3.7b**	**32**	**0-147**	
NIED	IV	10 08 52 00	37.10N	140.80E	5	3.6W		**¶16416714**	
ISCJB	IV	10 08 52 29.0–.67	37.08N–.03	140.88E–.05	13–3	3.6b			
IDC	IV	10 08 52 28.8–.76	37.11N	140.78E	0	3.8,3.7			
JMA	IV	10 08 52 30.1	37.09N	140.78E	8–1	3.8,3.7			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ42.00000°,λ-63.00000°. NP2:ϕ_s231.00000°,δ53.00000°,λ-112.00000°. $M_0$2.84000×10^{14}								
ISCJB	Event type fe. Error ellipse: s-maj=7.0km s-min=4.8km az=14.6.								
IDC	Error ellipse: s-maj=20.2km s-min=14.9km az=104.0.								
JMA	Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s191.00000°,δ72.00000°,λ-86.00000°. NP2:ϕ_s359.00000°,δ18.00000°,λ-102.00000°. Principal axes: T Plg27.0000°,Azm278.0000°; N Plg4.0000°,Azm10.0000°; P Plg63.0000°,Azm107.0000°								
	(307) Sichuan								
ISC	**IV**	**10 09 02 44.9–.51**	**31.33N–.03**	**100.77E–.03**	**18–2**	**5.1s,5.0b**	**498**	**3-162**	
IDC	IV	10 09 02 41.0–.38	31.27N	100.71E	0	4.9,4.9s		**¶16416041**	
ISCJB	IV	10 09 02 41.8–.77	31.37N–.02	100.71E–.02	12–5	5.0s,5.0b			
BJI	IV	10 09 02 42.4	31.28N	100.80E	10	5.4s,5.3L			
MOS	IV	10 09 02 44.2–1.1	31.32N	100.74E	33	5.2b,5.2s			
NEIC	IV	10 09 02 47.4–.65	31.37N	100.76E	43–6	5.1b,5.2s			
GCMT	IV	10 09 02 47.4–.10	31.26N	100.87E	25	5.4W,5.2s			
ISC	Event type de.								
IDC	Error ellipse: s-maj=11.1km s-min=9.1km az=26.0.								

ISCJB Event type de. Error ellipse: s-maj=3.1km s-min=2.7km az=172.6.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=107.9.
NEIC Event type de. Error ellipse: s-maj=4.4km s-min=3.9km az=45.0. Minor damage to some houses and electricity disrupted in Luhuo. Felt at Dewu, Garze, Kanding, Xinlong and Yajiang.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c143; s125,c237; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.50±.02; $M_{\phi\phi}$-1.48±.02; $M_{r\theta}$-0.14±.04; $M_{\theta\phi}$0.05±.02; $M_{\phi r}$-0.43±.04; Best double couple: NP1:ϕ_s45.00000°,δ83.00000°,λ-165.00000°. NP2:ϕ_s313.00000°,δ75.00000°,λ-7.00000°. Principal axes: T 1.5150,Plg6.0000°,Azm178.0000°; N 0.0750,Plg74.0000°,Azm69.0000°; P -1.5970,Plg15.0000°,Azm270.0000° $M_0$1.55600×10^{17}

(227) Eastern Honshu

ISC	**IV**	**10 11 22 15.2–1.1**	**37.15N–.04**	**140.72E–.04**	**3–7**	**4.0b**	**66**	**0-147**
NIED	IV	10 11 22 00	37.10N	140.80E	5	3.8W		**¶16416715**
IDC	IV	10 11 22 14.8–.61	37.15N	140.66E	0	4.0,3.8		
JMA	IV	10 11 22 15.8	37.08N	140.77E	7–1	3.8,3.8		
NEIC	IV	10 11 22 20.0–.23	37.11N	140.63E	35	4.7b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ35.00000°,λ-78.00000°. NP2:ϕ_s166.00000°,δ56.00000°,λ-99.00000°. $M_0$5.95000×10^{14}
IDC Error ellipse: s-maj=19.1km s-min=13.9km az=109.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.4km az=141.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 13 06 19.6–2.0**	**37.40N–.04**	**141.52E–.08**	**2–12**	**3.6b**	**27**	**1-74**
NIED	IV	10 13 06 00	37.40N	141.30E	47	3.7W		**¶17200463**
ISCJB	IV	10 13 06 21.0–1.1	37.37N–.04	141.49E–.07	20–6	3.5b		
JMA	IV	10 13 06 24.0–.10	37.42N	141.25E	28–1	3.8		
IDC	IV	10 13 06 27.0–2.5	37.15N	141.47E	74–23	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ12.00000°,λ-160.00000°. NP2:ϕ_s227.00000°,δ86.00000°,λ-78.00000°. $M_0$4.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.2km az=24.2.
JMA Event type fe.
IDC Error ellipse: s-maj=21.5km s-min=14.0km az=71.0.

(227) Eastern Honshu

ISC	**IV**	**10 14 02 32.1–.97**	**37.07N–.03**	**140.77E–.05**	**4–7**		**22**	**0-57**
ISCJB	IV	10 14 02 31.6–.71	37.08N–.03	140.81E–.06	7–3	3.1b		**¶17200468**
JMA	IV	10 14 02 32.0	37.08N	140.77E	6–1	3.3		
IDC	IV	10 14 02 32.1–2.3	36.80N	140.82E	0	3.4,3.2		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.4km az=15.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s159.00000°,δ58.00000°,λ-113.00000°. NP2:ϕ_s17.00000°,δ39.00000°,λ-58.00000°. Principal axes: T Plg10.0000°,Azm265.0000°; N Plg19.0000°,Azm171.0000°; P Plg68.0000°,Azm21.0000°
IDC Error ellipse: s-maj=44.2km s-min=29.5km az=46.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 14 55 18.7–1.2**	**36.73N–.04**	**140.51E–.05**	**6–7**	**3.7b**	**34**	**0-91**
NIED	IV	10 14 55 00	36.70N	140.60E	5	3.7W		**¶17200473**
ISCJB	IV	10 14 55 17.9–1.0	36.63N–.04	140.71E–.07	13–6	3.5b,2.7s		
IDC	IV	10 14 55 17.5–.76	36.66N	140.56E	0	3.9,3.7		
JMA	IV	10 14 55 18.9	36.71N	140.63E	6–1	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ38.00000°,λ-99.00000°. NP2:ϕ_s127.00000°,δ53.00000°,λ-83.00000°. $M_0$3.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.8km az=19.4.
IDC Error ellipse: s-maj=19.5km s-min=12.1km az=165.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s308.00000°,δ53.00000°,λ-105.00000°. NP2:ϕ_s153.00000°,δ39.00000°,λ-71.00000°. Principal axes: T Plg7.0000°,Azm49.0000°; N Plg12.0000°,Azm318.0000°; P Plg76.0000°,Azm169.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 15 07 04.8–.65**	**38.29N–.04**	**141.97E–.05**	**58–5**	**4.5b,3.4s**	**219**	**1-146**
IDC	IV	10 15 06 57.3–.48	38.28N	141.87E	0	4.6,4.5		**¶602553070**
NIED	IV	10 15 07 00	38.30N	141.90E	65	4.4W,4.5		
MOS	IV	10 15 07 01.2–.91	38.31N	141.85E	38	4.7b,4.5		
ISCJB	IV	10 15 07 04.5–.41	38.31N–.03	141.91E–.04	68–3	4.4b,4.5		
JMA	IV	10 15 07 05.8–.10	38.33N	141.87E	64–1	4.5,4.5		
NEIC	IV	10 15 07 06.1–.61	38.34N	141.84E	67–5	4.6b,4.5		

ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=11.6km az=99.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ40.00000°,λ114.00000°. NP2:ϕ_s202.00000°,δ54.00000°,λ72.00000°. $M_0$3.98000×10^{15}
MOS Error ellipse: s-maj=8.8km s-min=5.0km az=96.9.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=33.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=128.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 16 21 38.1–1.0**	**38.24N–.04**	**141.88E–.07**	**55–8**	**4.2b,3.4s**	**87**	**0-146**
NIED	IV	10 16 21 00	38.20N	141.80E	62	4.1W,3.4s		**¶16416050**
IDC	IV	10 16 21 30.8–.66	38.18N	141.80E	0	4.3,4.1		
BJI	IV	10 16 21 33.3	37.88N	142.14E	57	4.6b,4.5b		
ISCJB	IV	10 16 21 37.4–.52	38.25N–.03	141.85E–.05	63–3	4.2b,4.5b		
JMA	IV	10 16 21 38.7–.10	38.26N	141.79E	56–1	4.1,4.5b		
NEIC	IV	10 16 21 39.3–.70	38.29N	141.82E	63–7	4.5b,4.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ43.00000°,λ140.00000°. NP2:ϕ_s176.00000°,δ64.00000°,λ54.00000°. $M_0$1.72000×10^{15}
IDC Error ellipse: s-maj=19.2km s-min=14.9km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=5.7km az=132.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 16 28 53.6–2.9**	**38.38N–.05**	**142.17E–.10**	**17–15**		**16**	**1-62**
NIED	IV	10 16 28 00	38.50N	142.20E	14	3.7W		**¶17200480**
ISCJB	IV	10 16 28 52.8–1.7	38.36N–.05	142.28E–.10	26–10	4.2b		
IDC	IV	10 16 28 53.9–3.7	37.89N	143.03E	0	4.1,4.1b		
JMA	IV	10 16 28 54.7–.10	38.45N	142.21E	30–2	4.2,4.1b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ15.00000°,λ-134.00000°. NP2:ϕ_s237.00000°,δ79.00000°,λ-79.00000°. $M_0$3.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.8km az=169.9.
IDC Error ellipse: s-maj=71.9km s-min=37.7km az=170.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 16 34 00.4–.69**	**36.42N–.04**	**141.18E–.05**	**22–5**	**4.3b,3.4s**	**78**	**1-147**
IDC	IV	10 16 33 56.6–.57	36.33N	141.14E	0	4.2,4.1		**¶16424666**
NIED	IV	10 16 34 00	36.40N	141.10E	47	4.2W,4.1		
JMA	IV	10 16 34 01.6–.10	36.37N	141.11E	48–1	4.2,4.1		
NEIC	IV	10 16 34 03.0–.74	36.42N	141.07E	43–7	4.5b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=110.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ23.00000°,λ16.00000°. NP2:ϕ_s106.00000°,δ84.00000°,λ112.00000°. $M_0$2.54000×10^{15}
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.4km az=125.0.

(256) Leyte

ISC	**IV**	**10 17 35 24.3–1.4**	**10.67N–.04**	**124.94E–.05**	**6–9**	**3.9b**	**29**	**0-94**
IDC	IV	10 17 35 22.9–.78	10.51N	124.69E	0	4.4L,3.8		**¶16706306**
MAN	IV	10 17 35 23	10.95N	125.05E	31	4.9b,3.9L		
ISCJB	IV	10 17 35 24.5–.84	10.72N–.03	124.97E–.05	19–7	3.8b,3.9L		
NEIC	IV	10 17 35 28.1–.52	10.51N	124.74E	35	4.2b,3.9L		

ISC Event type fe.
IDC Error ellipse: s-maj=56.5km s-min=12.6km az=72.0.
MAN Event type fe. INTENSITY III - DULAG & ABUYOG LEYTE; INTENSITY II - TOLOSA LEYTE.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.5km az=2.7.
NEIC Event type fe. Error ellipse: s-maj=39.7km s-min=9.0km az=75.0. Felt [III PIVS] at Abuyog and Dulag and [II PIVS] at Tolosa.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 17 44 54.2–.90**	**37.28N–.04**	**141.57E–.04**	**24–6**	**4.4b,3.6s**	**180**	**1-146**
NIED	IV	10 17 44 00	37.30N	141.40E	35	4.3W,3.6s		**¶602553067**
IDC	IV	10 17 44 51.1–.45	37.26N	141.47E	0	4.7L,4.4		
ISCJB	IV	10 17 44 52.8–.64	37.25N–.02	141.59E–.03	28–4	4.3b,3.6s		
MOS	IV	10 17 44 54.3–1.2	37.30N	141.56E	36	4.6b,3.6s		
JMA	IV	10 17 44 55.3–.10	37.30N	141.44E	36–1	4.5,3.6s		
NEIC	IV	10 17 44 56.6–.86	37.21N	141.49E	46–8	4.5b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ29.00000°,λ-93.00000°. NP2:ϕ_s190.00000°,δ61.00000°,λ-88.00000°. $M_0$3.21000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=10.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.8km az=34.1.
MOS Error ellipse: s-maj=9.6km s-min=6.2km az=89.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.5km az=125.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 18 20 58.3–.00**	**36.72N–.04**	**140.63E–.06**	**10–7**		**22**	**0-57**
IDC	IV	10 18 20 54.2–2.3	36.97N	140.90E	0	3.5,3.5		**¶17200488**
ISCJB	IV	10 18 20 57.7–.74	36.69N–.03	140.70E–.06	7–4	3.3b,3.5		
JMA	IV	10 18 20 58.3	36.70N	140.67E	4–1	3.0,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=40.3km s-min=28.6km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.1km az=20.2.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 18 29 07.7–1.9**	**36.32N–.07**	**140.89E–.08**	**26–11**	**3.3b**	**21**	**0-60**
NIED	IV	10 18 29 00	36.30N	140.80E	32	3.4W		**¶17200490**
IDC	IV	10 18 29 03.8–1.1	36.25N	140.93E	0	3.5,3.3		
ISCJB	IV	10 18 29 06.6–1.1	36.24N–.06	140.93E–.07	31–5	3.2b,3.3		
JMA	IV	10 18 29 08.1–.10	36.29N	140.85E	38–1	3.6,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ53.00000°,λ-14.00000°. NP2:ϕ_s243.00000°,δ79.00000°,λ-142.00000°. $M_0$1.28000×10^{14}
IDC Error ellipse: s-maj=28.1km s-min=20.9km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=8.7km az=156.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 19 23 53.3–.70**	**39.73N–.04**	**142.57E–.05**	**35–2**	**4.7b,3.8s**	**222**	**1-145**
NIED	IV	10 19 23 00	39.80N	142.40E	41	4.5W,3.8s		**¶16416186**
BJI	IV	10 19 23 51.1	39.56N	142.61E	51	4.9b,4.7b		
ISCJB	IV	10 19 23 53.6–.51	39.76N–.03	142.41E–.05	47–3	4.6b,3.6s		
MOS	IV	10 19 23 53.4–1.0	39.83N	142.35E	42	4.9b,3.6s		
JMA	IV	10 19 23 54.7–.10	39.76N	142.36E	41–1	4.4,3.6s		
NEIC	IV	10 19 23 56.4–.65	39.79N	142.34E	60–5	4.7b,3.6s		
IDC	IV	10 19 23 56.7–1.9	39.74N	142.33E	60–17	4.4,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ20.00000°,λ71.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ97.00000°. $M_0$5.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=25.2.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=99.4.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.1km az=117.0.
IDC Error ellipse: s-maj=13.2km s-min=11.2km az=117.0.

(224) Hokkaido region

ISC	**IV**	**10 19 27 05.1–.90**	**43.07N–.07**	**145.77E–.04**	**87–6**	**3.6b**	**47**	**0-70**
IDC	IV	10 19 26 54.0–1.3	42.99N	145.80E	0	3.8,3.6		**¶17200495**
MOS	IV	10 19 27 03.7–.88	42.99N	145.74E	97	3.8b,3.6		
ISCJB	IV	10 19 27 04.4–.62	43.09N–.06	145.78E–.05	95–3	3.6b,3.6		
JMA	IV	10 19 27 06.3–.10	43.12N	145.72E	84–1	3.6,3.6		
SKHL	IV	10 19 27 06.4–.20	43.21N	145.79E	100–1	5.4s,4.9b		

ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=23.6km az=157.0.
MOS Error ellipse: s-maj=24.3km s-min=12.6km az=79.5.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.1km az=154.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 20 02 05.8–2.0**	**36.66N–.05**	**141.27E–.07**	**2–11**	**3.5b**	**26**	**1-75**
IDC	IV	10 20 02 05.9–1.6	36.71N	141.25E	0	3.5,3.5		**¶600583017**
ISCJB	IV	10 20 02 06.3–1.4	36.62N–.04	141.32E–.08	17–8	3.4b,3.5		
JMA	IV	10 20 02 08.2–.10	36.63N	141.16E	34–1	3.9,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=22.1km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.4km az=25.0.
JMA Event type fe.

(259) Mindanao

ISC	**IV**	**10 20 04 22.5–.51**	**9.88N–.03**	**126.25E–.05**	**54–4**	**5.0b,3.8s**	**350**	**1-169**
BJI	IV	10 20 04 17.8	9.71N	126.25E	39	4.9b,4.9b		**¶16416188**
MOS	IV	10 20 04 18.5–1.3	9.87N	126.02E	32	5.3b,4.9b		
DJA	IV	10 20 04 20.2–.30	10N–3.0	126E–3.0	10	5.4b,4.9b		
MAN	IV	10 20 04 21	9.87N	126.21E	23	5.5b,4.8s		
IDC	IV	10 20 04 22.6–1.5	9.87N	126.03E	54–13	4.8,4.6		
ISCJB	IV	10 20 04 22.1–.43	9.87N–.02	126.24E–.03	66–4	4.8b,4.6		
NEIC	IV	10 20 04 23.7–.78	9.90N	126.18E	66–7	5.0b,4.6		
GCMT	IV	10 20 04 23.7–.30	9.93N	126.09E	37–0	5.0W,4.6		
KLM	IV	10 20 04 27.6	9.79N	126.32E	77	6.0s,4.9b		

ISC Event type fe.
MOS Error ellipse: s-maj=11.3km s-min=5.9km az=105.2.
MAN Event type fe. INTENSITY III - MAINIT SURIGAO DEL NORTE; GUIUAN E. SAMAR; INTENSITY II - SURIGAO CITY; LIBAGUN SOUTHERN LEYTE.
IDC Error ellipse: s-maj=13.4km s-min=8.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.0km az=162.9.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=83.0. Felt [III PIVS] at Mainit and [II PIVS] at Surigao. Also felt [III PIVS] at Guiuan, Samar and [II PIVS] at Libagon, Letye.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c32; s59,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.33±.23 $M_{\theta\theta}$-1.60±.13; $M_{\phi\phi}$-0.72±.15; $M_{r\theta}$0.93±.10; $M_{\theta\phi}$-1.79±.06; $M_{\phi r}$-1.84±.15; Best double couple: NP1:ϕ_s202.00000°,δ59.00000°,λ50.00000°. NP2:ϕ_s80.00000°,δ49.00000°,λ137.00000°. Principal axes: T 3.7060,Plg56.0000°,Azm57.0000°; N -0.6560,Plg33.0000°,Azm225.0000°; P -3.0430,Plg5.0000°,Azm319.0000° $M_0$3.37400×10^{16}

(227) Eastern Honshu

JMA	**IV**	**10 20 06 57.2**	**37.05N**	**140.76E**	**9–1**	**2.8**		**¶600583021**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**10 20 19 54.7–.64**	**36.43N–.04**	**141.08E–.05**	**28–3**	**4.3b,3.8s**	**75**	**0-147**
NIED	IV	10 20 19 00	36.40N	141.10E	32	4.2W,3.8s		**¶601626041**
ISCJB	IV	10 20 19 54.1–.70	36.39N–.03	141.17E–.06	40–5	4.2b,3.6s		
JMA	IV	10 20 19 55.4–.10	36.43N	141.08E	46–2	4.3,3.6s		
IDC	IV	10 20 19 56.6–.74	36.40N	141.04E	39–5	4.1,4.0		
NEIC	IV	10 20 19 57.2–1.1	36.31N	141.01E	53–10	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ5.00000°,λ-165.00000°. NP2:ϕ_s214.00000°,δ89.00000°,λ-85.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.2km az=9.3.
JMA Event type fe.
IDC Error ellipse: s-maj=14.2km s-min=11.8km az=112.0.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=8.2km az=70.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

JMA	**IV**	**10 20 20 25.4–.10**	**38.37N**	**141.76E**	**57–1**	**4.0**		
NIED	IV	10 20 20 00	38.40N	141.80E	32	4.3W		**¶602553068**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ53.00000°,λ-27.00000°. NP2:ϕ_s323.00000°,δ69.00000°,λ-140.00000°. $M_0$3.15000×10^{15}

(228) Near east coast of eastern Honshu

JMA IV 10 20 23 08.2–.20 37.35N 141.92E 38–3 3.9
NIED IV 10 20 23 00 37.30N 141.90E 47 3.6W **¶600583030**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ47.00000°,λ158.00000°. NP2:ϕ_s258.00000°,δ74.00000°,λ45.00000°. $M_0$3.32000×10^{14}
(135) Near coast of central Chile
ISC IV 10 20 24 24.8–1.2 36.12S–.04 73.49W–.06 25–8 5.2b,4.9s 538 1-178
IDC IV 10 20 24 21.1–.51 36.09S 73.43W 0 4.9,4.8 **¶16416189**
GUC IV 10 20 24 22.2–.41 36.20S 73.77W 24–5 5.0L,4.8
NEIC IV 10 20 24 22.0 36.19S 73.77W 24 5.2b,5.0L
GCMT IV 10 20 24 22.0–.20 36.17S 73.96W 18–1 5.2W,5.0L
ISCJB IV 10 20 24 23.1–1.1 36.09S–.03 73.44W–.06 19–8 5.1b,4.8s
BJI IV 10 20 24 24.2 35.77S 73.58W 27 5.3s,5.2b
MOS IV 10 20 24 25.6–1.2 36.05S 73.10W 33 5.4b,5.2b
ISC Event type fe.
IDC Error ellipse: s-maj=20.8km s-min=12.2km az=79.0.
GUC Error ellipse: s-maj=1.9km s-min=3.4km az=-1.0.
NEIC Event type fe. Felt [IV] at Cobquecura, Coronel, Penco and Quirihue; [III] at Cabrero, Cauquenes, Chiguayante, Concepcion, Hualpen, La Laja, Longavi, Pelluhue, San Pedro de la Paz, San Rosendo and Talcahuano; [II] at Angol, Arauco, Chanco, San Clemente and Talca. Also felt at Bulnes. After GUC.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c65; s68,c102; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.45±.02 $M_{\theta\theta}$0.01±.01; $M_{\phi\phi}$-0.45±.02; $M_{r\theta}$-0.06±.03; $M_{\theta\phi}$-0.01±.01; $M_{\phi r}$-0.77±.06; Best double couple: NP1:ϕ_s184.00000° ,δ75.00000°,λ92.00000°. NP2:ϕ_s357.00000°,δ15.00000°,λ83.00000°. Principal axes: T 0.8930,Plg60.0000°,Azm97.0000°; N 0.0050,Plg2.0000°,Azm4.0000° ; P -0.8970,Plg30.0000°,Azm273.0000° $M_0$0.89500×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=5.7.
MOS Error ellipse: s-maj=18.4km s-min=8.0km az=100.9.
(228) Near east coast of eastern Honshu
ISC IV 10 21 35 54.4–.34 36.79N–.03 141.10E–.03 55–2 5.1b,4.3s 1163 0-157
NIED IV 10 21 35 00 36.70N 141.20E 56 5.1W,4.3s **¶16416192**
BJI IV 10 21 35 51.8 36.62N 141.09E 55 5.0b,4.8b
MOS IV 10 21 35 52.1–.77 37.00N 141.01E 35 5.3b,4.2s
NEIC IV 10 21 35 52.6–.11 36.77N 140.99E 35 5.2b,4.2s
GCMT IV 10 21 35 52.6–.30 36.75N 141.23E 49–0 5.1W,4.2s
JMA IV 10 21 35 53.9–.10 36.74N 141.15E 53–1 5.1,4.2s
ISCJB IV 10 21 35 54.0–.27 36.78N–.02 141.04E–.02 60–2 5.1b,4.2s
IDC IV 10 21 35 55.2–1.7 36.75N 141.06E 61–15 4.9,4.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ38.00000°,λ97.00000°. NP2:ϕ_s181.00000°,δ53.00000°,λ85.00000°. $M_0$4.69000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=99.4.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=150.0. Felt at Atsugi, Chiba and Narita. Recorded [4 JMA] in Fukushima and Ibaraki.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c78; s85,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.38±.18 $M_{\theta\theta}$1.02±.13; $M_{\phi\phi}$-5.40±.12; $M_{r\theta}$-0.02±.11; $M_{\theta\phi}$-0.14±.10; $M_{\phi r}$-1.49±.10; Best double couple: NP1:ϕ_s181.00000° ,δ53.00000°,λ90.00000°. NP2:ϕ_s1.00000°,δ37.00000°,λ90.00000°. Principal axes: T 4.6020,Plg82.0000°,Azm90.0000°; N 1.0230,Plg0.0000°,Azm181.0000° ; P -5.6250,Plg8.0000°,Azm271.0000° $M_0$5.11300×10^{16}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s159.00000°,δ67.00000°,λ74.00000°. NP2:ϕ_s16.00000°,δ27.00000°,λ124.00000°. Principal axes: T Plg64.0000°,Azm42.0000°; N Plg15.0000°,Azm165.0000°; P Plg21.0000° ,Azm261.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=152.8.
IDC Error ellipse: s-maj=10.4km s-min=9.5km az=109.0.
(228) Near east coast of eastern Honshu
JMA IV 10 21 57 14.1 36.78N 140.65E 25–1 3.6
¶600583047
JMA Event type fe.
(92) Leeward Islands
ISC IV 10 23 44 02.5–1.4 15.36N–.02 59.97W–.04 10–8 4.6b,3.3s 419 1-131
ISCJB IV 10 23 44 04.3–.20 15.39N–.01 59.93W–.02 33 4.6b,3.5s **¶16525103**
BJI IV 10 23 44 04.6 15.30N 59.90W 23 4.6b,3.5s
TRN IV 10 23 44 05.5 15.36N 60.11W 29 4.2,3.5s
NEIC IV 10 23 44 06.1 15.36N 60.12W 33 4.6b,4.2
IDC IV 10 23 44 07.3–2.0 15.38N 60.08W 43–19 4.2,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=12.3.
TRN Event type fe. Felt in Dominica, MMI II.
NEIC Event type fe. Felt on Barbados. After TRN.
IDC Error ellipse: s-maj=18.8km s-min=12.6km az=76.0.
(228) Near east coast of eastern Honshu
ISC IV 10 23 47 17.7–.72 35.71N–.05 140.06E–.07 81–6 4.0b 45 0-117
NIED IV 10 23 47 00 35.80N 140.10E 68 4.1W **¶16506281**
IDC IV 10 23 47 15.9–2.0 35.80N 140.28E 63–17 4.0,3.8
ISCJB IV 10 23 47 16.5–.45 35.72N–.04 140.06E–.07 85–3 3.9b,3.8
JMA IV 10 23 47 17.6–.20 35.81N 140.07E 67–2 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ30.00000°,λ76.00000°. NP2:ϕ_s359.00000°,δ61.00000°,λ98.00000°. $M_0$1.58000×10^{15}
IDC Error ellipse: s-maj=26.3km s-min=9.8km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.0km az=150.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s354.00000°,δ58.00000°,λ83.00000°. NP2: ϕ_s187.00000°,δ33.00000°,λ101.00000°. Principal axes: T Plg76.0000°,Azm244.0000° ; N Plg6.0000°,Azm358.0000°; P Plg13.0000°,Azm89.0000°
(228) Near east coast of eastern Honshu
ISC IV 11 00 00 11.0–1.1 36.83N–.04 140.42E–.04 6–7 3.8b 31 0-91
NIED IV 11 00 00 00 36.80N 140.60E 5 3.7W **¶17200510**
ISCJB IV 11 00 00 11.2–.50 36.80N–.04 140.58E–.05 21–3 3.7b
JMA IV 11 00 00 11.7 36.83N 140.50E 5–2 4.0
IDC IV 11 00 00 15.3–4.3 36.85N 140.27E 33–32 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_s47.00000°,δ47.00000°,λ-93.00000°. $M_0$3.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.5km az=36.6.
JMA Event type fe.
IDC Error ellipse: s-maj=21.3km s-min=18.6km az=90.0.
(40) California-Nevada border region
ISC IV 11 00 22 21.5–.67 38.42N–.03 118.73W–.03 9 3.5b 31 0-100
ISCJB IV 11 00 22 21.9–.39 38.34N–.03 118.70W–.04 9 3.7b **¶17200515**
NEIC IV 11 00 22 21.1 38.38N 118.74W 14 4.2L,3.9W
IDC IV 11 00 22 22.0–1.1 38.31N 118.75W 0 3.8,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=148.8.
NEIC Event type fe. Felt [III] at Hawthorne. Also felt at Yerington. After REN. Moment Tensor Solution. s9 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.02 $M_{\theta\theta}$-3.26 $M_{\phi\phi}$8.29 $M_{r\theta}$-4.08 $M_{\theta\phi}$-0.43 $M_{\phi r}$0.24 Best double couple: NP1:ϕ_s30.00000°,δ55.00000°,λ-40.00000°. NP2:ϕ_s146.00000° ,δ58.00000°,λ-138.00000°. Principal axes: T 8.3200,Plg2.0000°,Azm267.0000° ; N 0.0000,Plg39.0000°,Azm176.0000°; P -8.3100,Plg51.0000°,Azm360.0000° $M_0$8.30000×10^{14}
IDC Error ellipse: s-maj=14.9km s-min=7.0km az=174.0.
(159) North Island
ISC IV 11 00 33 58.9–.46 40.28S–.02 176.33E–.02 31–3 4.5b 293 0-165
ISCJB IV 11 00 33 58.7–.23 40.30S–.02 176.45E–.03 44–2 4.5b **¶16418226**
WEL IV 11 00 33 59.7–.06 40.32S 176.49E 41–1 5.2L
IDC IV 11 00 33 59.4–.65 40.08S 176.29E 31–3 4.4,4.4
NEIC IV 11 00 33 59.9 40.28S 176.38E 34 5.1L,5.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=28.7.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt from Auckland to Wellington, and from Taranaki to Gisborne, maximum. reported intensity MM 6.
IDC Error ellipse: s-maj=20.3km s-min=16.9km az=61.0.
NEIC Event type fe. Felt widely in the southern part of the North Island. After WEL.
(228) Near east coast of eastern Honshu
JMA IV 11 01 24 46.9–.10 35.83N 140.88E 11–1 3.6
NIED IV 11 01 24 00 35.80N 140.90E 14 3.4W **¶600583132**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ53.00000°,λ-11.00000°. NP2:ϕ_s129.00000°,δ81.00000°,λ-143.00000°. $M_0$1.59000×10^{14}
(228) Near east coast of eastern Honshu
ISC IV 11 01 26 04.7–1.7 37.30N–.04 141.26E–.07 13–9 3.4b 28 0-50
IDC IV 11 01 25 53.4–9.2 36.81N 142.42E 0 3.6,3.5 **¶17200516**
NIED IV 11 01 26 00 37.30N 141.20E 26 3.8W,3.5
ISCJB IV 11 01 26 05.3–1.1 37.29N–.04 141.26E–.08 26–5 3.4b,3.5
JMA IV 11 01 26 07.3–.10 37.31N 141.10E 29–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=164.8km s-min=64.4km az=136.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ41.00000°,λ-38.00000°. NP2:ϕ_s224.00000°,δ66.00000°,λ-125.00000°. $M_0$5.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.1km az=21.3.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 11 02 00 34.6–.99 36.74N–.03 140.52E–.05 7–7 3.8b 25 0-83
NIED IV 11 02 00 00 36.70N 140.70E 5 3.6W **¶602597200**
IDC IV 11 02 00 33.4–1.1 36.77N 140.63E 0 3.9,3.9L
ISCJB IV 11 02 00 34.3–2.0 36.68N–.04 140.72E–.06 15–13 3.6s,3.6b
JMA IV 11 02 00 34.9 36.70N 140.66E 4–1 4.0,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ26.00000°,λ-81.00000°. NP2:ϕ_s163.00000°,δ65.00000°,λ-94.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=15.0km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.7km az=28.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s355.00000°,δ50.00000°,λ-79.00000°. NP2:ϕ_s158.00000°,δ42.00000°,λ-102.00000°. Principal axes: T Plg4.0000°,Azm77.0000°; N Plg8.0000°,Azm168.0000°; P Plg81.0000° ,Azm321.0000°
(229) Off east coast of Honshu
ISC IV 11 02 26 32.7–.00 37.49N–.05 142.49E–.04 15–5 4.4b,3.7s 173 1-146
NIED IV 11 02 26 00 37.30N 142.60E 5 4.3W,3.7s **¶600583156**
JMA IV 11 02 26 27.7–.30 37.31N 142.59E 0 4.5,3.7s
ISCJB IV 11 02 26 29.5–1.1 37.50N–.05 142.56E–.04 4–6 4.3b,3.7s
BJI IV 11 02 26 31.1 37.69N 142.65E 19 4.7b,4.5b
NEIC IV 11 02 26 33.2–2.1 37.39N 142.55E 22–13 4.4b,4.5b
MOS IV 11 02 26 34.9–.98 37.69N 142.38E 31 4.5b,4.5b
IDC IV 11 02 26 35.4–2.6 37.27N 142.53E 41–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ35.00000°,λ-151.00000°. NP2:ϕ_s36.00000°,δ74.00000°,λ-58.00000°. $M_0$3.67000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=3.9km az=153.4.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=133.0. Recorded [1 JMA] in Fukushima.
MOS Error ellipse: s-maj=8.9km s-min=6.0km az=104.1.
IDC Error ellipse: s-maj=16.3km s-min=13.6km az=126.0.
(259) Mindanao
ISC IV 11 04 01 48.0–.79 9.76N–.03 125.50E–.06 18–4 4.4b,4.1s 92 0-146
MAN IV 11 04 01 49 9.76N 125.51E 32 5.3b,4.5s **¶16525105**
NEIC IV 11 04 01 56.0–.92 10.11N 125.30E 67–8 4.5b,4.5s
IDC IV 11 04 01 56.0–2.9 10.14N 125.28E 66–27 4.6L,4.2
GCMT IV 11 04 01 56.0–.30 9.89N 125.43E 21–1 5.0W,4.2
ISC Event type fe.
MAN Event type fe. INTENSITY IV - SURIGAO CITY; INTENSITY III - ST. BERNARD HINUNANGAN SOGOD S. LEYTE; ABUYOG LEYTE; INTENSITY II - MAINIT SURIGAO DEL NORTE; TACLOBAN CITY.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=5.8km az=82.0. Felt [IV PIVS] at Surigao and [II PIVS] at Mainit, Mindanao. Felt [III PIVS] at Abuyog, Hinunangan, Saint Bernard and Sogod and [II PIVS] at Tacloban, Leyte.
IDC Error ellipse: s-maj=18.9km s-min=13.0km az=81.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c30; s86,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.01±.15 $M_{\theta\theta}$2.44±.12; $M_{\phi\phi}$-2.42±.14; $M_{r\theta}$-0.97±.21; $M_{\theta\phi}$-1.84±.09; $M_{\phi r}$-1.25±.26; Best double couple: NP1:ϕ_s65.00000°,δ82.00000° ,λ-156.00000°. NP2:ϕ_s331.00000°,δ66.00000°,λ-9.00000°. Principal axes: T 3.1570,Plg11.0000°,Azm196.0000°; N 0.5100,Plg65.0000°,Azm82.0000° ; P -3.6580,Plg23.0000°,Azm290.0000° $M_0$3.40700×10^{16}
(228) Near east coast of eastern Honshu
ISC IV 11 04 05 38.3–.88 36.83N–.04 140.54E–.04 10 3.7b 16 0-95
NIED IV 11 04 05 00 36.80N 140.50E 5 3.7W **¶17200522**
IDC IV 11 04 05 36.4–1.3 36.87N 140.55E 0 4.1s,4.1
ISCJB IV 11 04 05 37.5–.57 36.82N–.04 140.55E–.05 10 4.2s,3.7b
JMA IV 11 04 05 38.2 36.83N 140.52E 6–1 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ41.00000°,λ-91.00000°. NP2:ϕ_s230.00000°,δ49.00000°,λ-90.00000°. $M_0$4.20000×10^{14}
IDC Error ellipse: s-maj=20.7km s-min=17.4km az=19.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.6km az=31.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ57.00000°,λ-66.00000°. NP2:ϕ_s52.00000°,δ40.00000°,λ-122.00000°. Principal axes: T Plg9.0000°,Azm344.0000°; N Plg20.0000°,Azm77.0000°; P Plg68.0000° ,Azm231.0000°
(259) Mindanao
ISC IV 11 04 31 37.3–.84 9.79N–.03 125.38E–.05 16–6 3.8b 32 0-95
ISCJB IV 11 04 31 37.0–.61 9.85N–.04 125.47E–.06 21–5 3.7b,3.1s **¶16553303**
IDC IV 11 04 31 37.6–1.5 10.25N 125.39E 0 4.6L,3.9
MAN IV 11 04 31 38 9.78N 125.40E 22 4.8b,3.7L
NEIC IV 11 04 31 41.3–.77 10.08N 125.50E 35 3.8b,3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.6km az=175.5.
IDC Error ellipse: s-maj=43.5km s-min=29.9km az=85.0.
MAN Event type fe. INTENSITY III - SURIGAO CITY; INTENSITY I - MAINIT SURIGAO DEL NORTE.
NEIC Event type fe. Error ellipse: s-maj=30.1km s-min=12.3km az=78.0. Felt [III PIVS] at Surigao and [I PIVS] at Mainit, Mindanao.
(228) Near east coast of eastern Honshu
JMA IV 11 04 39 53.5–.10 38.29N 141.66E 54–1 3.6
¶600583242
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(338) Caspian Sea
ISC IV 11 04 49 51.1–.78 42.06N–.02 48.42E–.03 8–5 3.6b 145 0-50
IDC IV 11 04 49 49.2–.90 42.06N 48.18E 0 3.5,3.5 **¶16706361**
AZER IV 11 04 49 49.3–8.0 42.09N 48.34E 32–0 3.5,3.5
ISCJB IV 11 04 49 50.6–.52 42.11N–.02 48.43E–.03 7–3 3.4b,3.5
MOS IV 11 04 49 50.0–.84 42.02N 48.48E 8 4.1b,3.5
CSEM IV 11 04 49 51.5–.18 42.06N 48.49E 10 4.1b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=13.9km s-min=8.8km az=162.0.
AZER Error ellipse: s-maj=6.4km s-min=3.8km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=149.6.
MOS Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=25.0. Felt (II - III) at Derbent. Moment Tensor Solution.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=76.0.
(228) Near east coast of eastern Honshu
ISC IV 11 04 51 44.3–.48 37.47N–.03 141.38E–.03 26–2 5.0b,4.4s 620 0-148
NIED IV 11 04 51 00 37.50N 141.30E 32 4.8W,4.4s **¶16416730**
IDC IV 11 04 51 40.7–.45 37.48N 141.28E 0 4.9,4.8
BJI IV 11 04 51 41.5 37.41N 141.36E 21 4.9b,4.7b
ISCJB IV 11 04 51 44.9–.39 37.48N–.02 141.22E–.03 36–3 4.9b,4.4s
JMA IV 11 04 51 44.8–.10 37.47N 141.32E 29–1 5.0,4.4s
MOS IV 11 04 51 45.0–.87 37.80N 141.15E 27 5.2b,4.5s
NEIC IV 11 04 51 46.9–.49 37.50N 141.22E 40–4 5.0b,4.5s
GCMT IV 11 04 51 46.9–.40 37.54N 141.24E 30–1 4.9W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ51.00000°,λ-22.00000°. NP2:ϕ_s274.00000°,δ73.00000°,λ-139.00000°. $M_0$1.66000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=151.4.
JMA Event type fe.

MOS Error ellipse: s-maj=6.5km s-min=4.3km az=99.7.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=145.0. Recorded [4 JMA] in Fukushima.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c27; s82,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.32±.19 $M_{\theta\theta}$-0.24±.12; $M_{\phi\phi}$1.56±.14; $M_{r\theta}$1.99±.19; $M_{\theta\phi}$-1.77±.09; $M_{\phi r}$1.12±.16; Best double couple: NP1:ϕ_s293.00000°,δ62.00000°,λ-143.00000°. NP2:ϕ_s183.00000°,δ58.00000°,λ-34.00000°. Principal axes: T 2.6490,Plg2.0000°,Azm57.0000°; N 0.9580,Plg45.0000°,Azm326.0000°; P -3.6040,Plg45.0000°,Azm149.0000° $M_0$3.12700×10^{16}

(228) Near east coast of eastern Honshu

JMA	**IV**	**11 05 11 27.2**	**40.06N**	**141.95E**	**24–1**	**3.8**		**¶600583253**

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 05 59 08.7–1.2**	**36.79N–.03**	**138.61E–.03**	**3–9**	**3.6b,3.4s**	**29**	**0-92**
NIED	IV	11 05 59 00	36.80N	138.60E	5	4.2W,3.4s		**¶17200531**
ISCJB	IV	11 05 59 08.0–.50	36.79N–.03	138.59E–.04	9–4	3.6b,3.4s		
JMA	IV	11 05 59 07.7	36.82N	138.60E	0	3.7,3.4s		
IDC	IV	11 05 59 07.8–.79	36.61N	138.74E	0	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ75.00000°,λ-180.00000°. NP2:ϕ_s17.00000°,δ90.00000°,λ-15.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.4km az=34.7.
JMA Event type fe.
IDC Error ellipse: s-maj=20.1km s-min=7.2km az=162.0.

(227) Eastern Honshu

JMA	**IV**	**11 06 00 24.2**	**36.82N**	**138.60E**	**0**	**3.5**	
NIED	IV	11 06 00 00	36.80N	138.60E	5	3.9W	**¶600583271**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ79.00000°,λ0.00000°. NP2:ϕ_s114.00000°,δ90.00000°,λ-169.00000°. $M_0$7.61000×10^{14}

(162) South Island

WEL	**IV**	**11 06 10 15.7–.08**	**43.55S**	**172.39E**	**5**	**3.7L**	**¶16416811**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 07 06 41.1–1.9**	**37.51N–.06**	**141.5E–.10**	**33–8**	**3.5b**	**19**	**1-68**
NIED	IV	11 07 06 00	37.40N	141.60E	41	3.8W		**¶600583332**
IDC	IV	11 07 06 39.9–1.1	38.11N	141.21E	0	3.7,3.6L		
ISCJB	IV	11 07 06 41.0–1.2	37.52N–.06	141.5E–.10	49–8	3.5b,3.6L		
JMA	IV	11 07 06 41.4–.10	37.49N	141.49E	40–2	4.0,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s117.00000°,δ80.00000°,λ179.00000°. NP2:ϕ_s207.00000°,δ89.00000°,λ10.00000°. $M_0$5.46000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=22.7km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=18.2km s-min=8.5km az=24.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 07 29 30.6–2.2**	**38.74N–.06**	**142.14E–.08**	**0–13**	**3.5b**	**21**	**1-62**
NIED	IV	11 07 29 00	38.80N	142.10E	47	3.8W		**¶17200536**
IDC	IV	11 07 29 33.2–1.1	39.17N	142.05E	0	3.7,3.5		
JMA	IV	11 07 29 36.1–.10	38.78N	142.06E	41–1	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ56.00000°,λ-140.00000°. NP2:ϕ_s104.00000°,δ58.00000°,λ-42.00000°. $M_0$6.57000×10^{14}
IDC Error ellipse: s-maj=32.8km s-min=23.3km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(224) Hokkaido region

ISC	**IV**	**11 08 10 15.4–.60**	**42.60N–.04**	**143.41E–.04**	**88–5**	**4.3b**	**91**	**0-114**
NIED	IV	11 08 10 00	42.70N	143.40E	77	4.0W		**¶16505324**
IDC	IV	11 08 10 14.8–2.3	42.73N	143.37E	75–22	4.3,4.1		
NEIC	IV	11 08 10 15.0–.48	42.69N	143.41E	79–5	4.7b,4.1		
MOS	IV	11 08 10 14.5–1.2	42.68N	143.30E	90	4.4b,4.1		
ISCJB	IV	11 08 10 15.0–.31	42.63N–.04	143.42E–.04	99–2	4.2b,4.1		
JMA	IV	11 08 10 17.1–.10	42.67N	143.33E	85–1	3.7,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ32.00000°,λ14.00000°. NP2:ϕ_s45.00000°,δ83.00000°,λ121.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.6km az=154.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=128.0.
MOS Error ellipse: s-maj=11.4km s-min=6.8km az=74.5.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=150.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s45.00000°,δ77.00000°,λ125.00000°. NP2:ϕ_s153.00000°,δ37.00000°,λ21.00000°. Principal axes: T Plg46.0000°,Azm351.0000°; N Plg34.0000°,Azm217.0000°; P Plg24.0000°,Azm109.0000°

(227) Eastern Honshu

ISC	**IV**	**11 08 16 12.7–.34**	**36.95N–.02**	**140.58E–.02**	**13–1**	**6.5s,6.4b**	**2771**	**0-165**
NIED	IV	11 08 16 00	36.90N	140.70E	5	6.6W,6.4b		**¶16416735**
ISCJB	IV	11 08 16 10.1–.39	36.96N–.01	140.44E–.01	4–2	6.5s,6.3b		
IDC	IV	11 08 16 10.7–.28	36.98N	140.47E	0	6.4,6.4s		
MOS	IV	11 08 16 10.9–.94	37.07N	140.51E	12	6.5b,6.5s		
BJI	IV	11 08 16 11.1	36.90N	140.70E	30	6.8,6.8s		
GCMT	IV	11 08 16 12.7–.00	37.00N	140.54E	12	6.7W,6.8s		
NEIC	IV	11 08 16 12.7–.06	37.00N	140.40E	11	6.6W,6.6W		
JMA	IV	11 08 16 12.0	36.95N	140.67E	6–1	7.0,6.6W		
NEIC	IV	11 08 16 13.0–.00	37.01N	140.68E	15	7.0,6.6W		
NEIC	IV	11 08 16 33.5–.00	37.20N	140.33E	10	7.0,6.6W		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ41.00000°,λ-99.00000°. NP2:ϕ_s132.00000°,δ50.00000°,λ-82.00000°. $M_0$9.58000×10^{18}
ISCJB Event type de. Error ellipse: s-maj=2.2km s-min=1.6km az=144.9.
IDC Error ellipse: s-maj=10.6km s-min=7.8km az=63.0.
MOS Error ellipse: s-maj=5.7km s-min=3.7km az=101.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c339; s138,c598;Duration: 5s2 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.27±.00 $M_{\theta\theta}$0.76±.00; $M_{\phi\phi}$0.51±.01; $M_{r\theta}$-0.01±.01; $M_{\theta\phi}$-0.33±.00; $M_{\phi r}$0.45±.01; Best double couple: NP1:ϕ_s139.00000°,δ53.00000°,λ-75.00000°. NP2:ϕ_s295.00000°,δ39.00000°,λ-109.00000°. Principal axes: T 1.0230,Plg7.0000°,Azm218.0000°; N 0.3560,Plg12.0000°,Azm310.0000°; P -1.3770,Plg76.0000°,Azm97.0000° $M_0$1.20000×10^{19}
NEIC Event type de. Error ellipse: s-maj=2.4km s-min=1.8km az=135.0. Six people killed by landslides at Iwaki and one person killed in Ibaraki. Felt [V] at Misawa and [IV] at Akiruno, Tokyo, Yokohama, Yokosuka and Zama. Felt in much of central and northern Honshu. Recorded [6L JMA] in Fukushima and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s45.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm135.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm315.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ50.00000°,λ-70.00000°. NP2:ϕ_s326.00000°,δ44.00000°,λ-111.00000°. Principal axes: T Plg3.0000°,Azm251.0000°; N Plg15.0000°,Azm342.0000°; P Plg75.0000°,Azm151.0000°
NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.06 $M_{\theta\theta}$0.48 $M_{\phi\phi}$0.57 $M_{r\theta}$-0.02 $M_{\theta\phi}$-0.15 $M_{\phi r}$0.02 Best double couple: NP1:ϕ_s143.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_s324.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 0.6800,Plg0.0000°,Azm233.0000°; N 0.3700,Plg0.0000°,Azm143.0000°; P -1.0600,Plg89.0000°,Azm45.0000° $M_0$0.90000×10^{19}
NEIC Event type se. Moment Tensor Solution. s102 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.18 $M_{\theta\theta}$0.66 $M_{\phi\phi}$0.51 $M_{r\theta}$-0.08 $M_{\theta\phi}$-0.27 $M_{\phi r}$-0.22 Best double couple: NP1:ϕ_s316.00000°,δ48.00000°,λ-79.00000°. NP2:ϕ_s119.00000°,δ44.00000°,λ-102.00000°. Principal axes: T 0.8700,Plg2.0000°,Azm38.0000°; N 0.3400,Plg8.0000°,Azm128.0000°; P -1.2100,Plg81.0000°,Azm295.0000° $M_0$1.00000×10^{19}

(227) Eastern Honshu

JMA	**IV**	**11 08 19 31.4**	**37.01N**	**140.72E**	**11**	**4.5**	**¶600583392**

JMA Event type fe.

(227) Eastern Honshu

JMA	**IV**	**11 08 20 26.5**	**37.00N**	**140.75E**	**7–1**	**4.2**	**¶600583395**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**11 08 24 03.7**	**36.95N**	**140.67E**	**8**	**3.9**	**¶600583396**

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 08 26 34.0–.68**	**37.08N–.04**	**140.53E–.04**	**40–5**	**5.1b**	**642**	**0-161**
IDC	IV	11 08 26 27.8–.33	37.07N	140.45E	0	5.0,4.9		**¶16416749**
ISCJB	IV	11 08 26 28.8–.47	37.08N–.02	140.50E–.02	12–2	5.7s,5.0b		
BJI	IV	11 08 26 29.6	37.05N	140.50E	23	5.4s,5.1		
JMA	IV	11 08 26 29.0	37.06N	140.62E	5–1	5.4,5.1		
MOS	IV	11 08 26 30.6–1.2	37.07N	140.49E	26	5.3b,5.1		
NEIC	IV	11 08 26 35.3–.51	37.06N	140.35E	49–4	5.2b,5.1		

ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=42.1.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s118.00000°,δ48.00000°,λ-77.00000°. NP2:ϕ_s279.00000°,δ44.00000°,λ-104.00000°. Principal axes: T Plg2.0000°,Azm199.0000°; N Plg10.0000°,Azm289.0000°; P Plg80.0000°,Azm98.0000°
MOS Error ellipse: s-maj=7.9km s-min=5.2km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=143.0. Recorded [5L JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 08 33 34.7–.88**	**36.94N–.07**	**140.74E–.10**	**63–7**	**3.7b**	**15**	**0-147**
IDC	IV	11 08 33 26.5–.94	36.97N	140.60E	0	3.9,3.7		**¶16706382**
ISCJB	IV	11 08 33 33.4–.66	36.93N–.07	140.7E–.10	72–4	3.6b,3.7		
JMA	IV	11 08 33 39.6	36.98N	140.64E	10–1	4.2,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=23.7km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=11.4km az=17.3.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 08 34 00.3–.46**	**36.88N–.07**	**140.37E–.06**	**89**	**4.5b**	**92**	**2-152**
BJI	IV	11 08 33 46.9	36.94N	140.84E	15	4.7b		**¶17200545**
MOS	IV	11 08 33 55.6–1.4	37.08N	140.62E	54	4.6b		
NEIC	IV	11 08 33 57.3–.90	37.02N	140.44E	53–8	4.7b		
IDC	IV	11 08 33 58.7–2.7	37.03N	140.42E	64–24	4.3,4.2		
ISCJB	IV	11 08 33 59.4–.32	36.96N–.06	140.39E–.05	89	4.4b,4.2		

ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Fukushima and Ibaraki.
ISCJB Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 08 38 35.9–1.3**	**36.97N–.04**	**140.63E–.04**	**5–8**	**3.8b**	**34**	**0-147**
ISCJB	IV	11 08 38 36.1–.59	37.01N–.03	140.74E–.05	17–4	3.9b		**¶17200556**
JMA	IV	11 08 38 36.5	37.01N	140.65E	8–1	4.0		
IDC	IV	11 08 38 42.5–3.6	36.96N	140.45E	54–32	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=16.6.
JMA Event type fe.
IDC Error ellipse: s-maj=23.3km s-min=17.4km az=85.0.

(227) Eastern Honshu

ISC	**IV**	**11 08 43 54.2–.94**	**37.04N–.04**	**140.70E–.08**	**13–7**	**3.7b**	**15**	**0-147**
JMA	IV	11 08 43 54.3	37.05N	140.71E	12–1	3.7		**¶17200560**
IDC	IV	11 08 43 58.2–4.0	36.74N	140.09E	64–35	3.8,3.7		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=37.1km s-min=22.6km az=84.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 08 45 12.5–1.0**	**36.92N–.03**	**140.75E–.05**	**11–6**	**4.4b**	**106**	**0-161**
IDC	IV	11 08 45 10.9–.56	36.96N	140.76E	0	5.8,5.8s		**¶16505325**
ISCJB	IV	11 08 45 11.7–.58	36.93N–.02	140.84E–.05	18–3	5.6s,4.4b		
JMA	IV	11 08 45 12.5	36.95N	140.72E	7–1	4.7,4.4b		
MOS	IV	11 08 45 13.8–1.5	36.91N	140.71E	30	4.6b,4.4b		
NEIC	IV	11 08 45 15.7–1.9	36.90N	140.78E	34–13	4.5b,4.4b		

ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.7km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.7km az=18.0.
MOS Error ellipse: s-maj=9.7km s-min=7.1km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.9km az=103.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.

(227) Eastern Honshu

ISC	**IV**	**11 08 45 37.1–1.0**	**37.06N–.03**	**140.56E–.03**	**10–6**	**4.7b**	**117**	**0-147**
IDC	IV	11 08 45 35.6–.50	37.07N	140.47E	0	4.7,4.6		**¶16587453**
ISCJB	IV	11 08 45 37.6–.46	37.06N–.02	140.61E–.04	21–3	4.7b,4.6		
JMA	IV	11 08 45 37.3	37.02N	140.62E	10–1	4.8,4.6		
MOS	IV	11 08 45 39.8–1.5	37.18N	140.65E	41	4.8b,4.6		
NEIC	IV	11 08 45 42.2–.79	37.15N	140.44E	40–7	4.7b,4.6		

ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=13.5km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=24.0.
JMA Event type fe.
MOS Error ellipse: s-maj=9.3km s-min=6.9km az=84.3.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=132.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 08 48 11.0–.74**	**36.88N–.08**	**140.69E–.05**	**10**	**3.8b**	**26**	**0-147**
ISCJB	IV	11 08 48 10.0–.61	36.88N–.04	140.77E–.05	10	3.9b		**¶16587454**
IDC	IV	11 08 48 09.7–1.1	36.78N	140.78E	0	4.1,4.0L		
JMA	IV	11 08 48 10.5–.10	36.90N	140.68E	7–1	3.9,4.0L		
NEIC	IV	11 08 48 14.6–.62	36.76N	140.67E	35	4.5b,4.0L		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=139.6.
IDC Error ellipse: s-maj=33.0km s-min=19.6km az=173.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=11.8km az=175.0.

(227) Eastern Honshu

ISC	**IV**	**11 08 49 59.8–1.6**	**36.94N–.06**	**140.75E–.06**	**1–10**	**3.6b**	**24**	**0-147**
IDC	IV	11 08 49 59.4–.95	36.88N	140.86E	0	3.9,3.8L		**¶17200562**
ISCJB	IV	11 08 50 00.2–.73	37.00N–.04	140.84E–.07	13–3	3.8b,3.8L		
JMA	IV	11 08 50 00.8	37.02N	140.70E	10–1	3.8,3.8L		

ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=19.6km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.6km az=23.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 08 50 59.4–1.2**	**36.96N–.03**	**140.64E–.04**	**5–7**	**4.1b**	**56**	**0-147**
ISCJB	IV	11 08 50 59.8–.59	36.98N–.03	140.85E–.05	18–3	4.1b		**¶16505326**
JMA	IV	11 08 51 00.6	37.00N	140.75E	11–1	4.3		
NEIC	IV	11 08 51 03.9–.80	36.89N	140.75E	38–7	4.4b		
IDC	IV	11 08 51 05.3–2.3	36.98N	140.62E	46–22	4.0,4.0L		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.1km az=19.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.0km az=108.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=89.0.

(227) Eastern Honshu

ISC	**IV**	**11 08 58 02.6–.72**	**37.06N–.03**	**140.52E–.03**	**11–4**	**5.2s,5.0b**	**699**	**0-157**
ISCJB	IV	11 08 58 01.2–.49	37.02N–.02	140.42E–.02	9–3	5.1s,4.9b		**¶16416813**
JMA	IV	11 08 58 02.8	37.02N	140.61E	10–1	4.9,4.9b		
BJI	IV	11 08 58 02.3	37.00N	140.40E	17	5.4s,5.2b		
MOS	IV	11 08 58 05.4–.81	37.34N	140.36E	27	5.1b,5.2b		
IDC	IV	11 08 58 06.2–3.6	37.04N	140.46E	33–26	5.2s,5.2		
NEIC	IV	11 08 58 07.2–.49	37.03N	140.37E	38–4	5.0b,5.2		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=144.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s321.00000°,δ66.00000°,λ-93.00000°. NP2:ϕ_s148.00000°,δ24.00000°,λ-83.00000°. Principal axes: T Plg21.0000°,Azm53.0000°; N Plg3.0000°,Azm322.0000°; P Plg69.0000°,Azm225.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=94.0.
IDC Error ellipse: s-maj=12.5km s-min=10.0km az=103.0.

NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=134.0. Recorded [4 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 08 59 45.1–.88**	**37.02N–.03**	**140.65E–.03**	**12–5**	**4.8b**	**137**	**0-153**
ISCJB	IV	11 08 59 45.0–.43	37.01N–.02	140.79E–.04	20–2	4.7b		**¶16505327**
JMA	IV	11 08 59 45.3	36.99N	140.73E	12–1	4.8		
MOS	IV	11 08 59 48.8–.93	37.29N	140.69E	39	4.9b		
IDC	IV	11 08 59 49.6–2.5	37.07N	140.63E	41–22	4.7,4.6		
NEIC	IV	11 08 59 50.7–.66	37.08N	140.60E	50–6	4.7b,4.6		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=30.5.
JMA Event type fe.
MOS Error ellipse: s-maj=9.5km s-min=7.0km az=90.3.
IDC Error ellipse: s-maj=14.6km s-min=12.9km az=104.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=123.0.

(227) Eastern Honshu

ISC	**IV**	**11 09 03 57.3–.00**	**37.05N–.03**	**140.61E–.04**	**8–7**	**4.0b**	**45**	**0-152**
IDC	IV	11 09 03 56.1–.60	37.05N	140.61E	0	4.9,4.9s		**¶16706407**
ISCJB	IV	11 09 03 57.2–.48	37.02N–.03	140.75E–.04	19–3	4.0b,4.9s		
JMA	IV	11 09 03 57.5	37.02N	140.68E	9–1	4.1,4.9s		
NEIC	IV	11 09 04 02.6–.99	37.01N	140.51E	47–9	4.4b,4.9s		

ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=12.3km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.4km az=21.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.9km az=57.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 05 18.8–.53**	**37.02N–.02**	**140.64E–.03**	**15–3**	**5.0s,5.0b**	**708**	**0-156**
IDC	IV	11 09 05 16.4–.37	37.02N	140.56E	0	5.0,5.0b		**¶602553178**
BJI	IV	11 09 05 18.8	37.00N	140.60E	30	5.4s,5.3b		
ISCJB	IV	11 09 05 18.7–.42	37.03N–.02	140.52E–.02	21–2	5.0s,5.0b		
JMA	IV	11 09 05 18.4	36.99N	140.73E	12–1	5.1,5.0b		
MOS	IV	11 09 05 20.9–.91	37.33N	140.50E	28	5.3b,5.0b		
NEIC	IV	11 09 05 23.7–.48	37.03N	140.45E	48–4	4.9b,5.0b		

ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=143.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ55.00000°,λ-76.00000°. NP2:ϕ_s107.00000°,δ37.00000°,λ-108.00000°. Principal axes: T Plg9.0000°,Azm30.0000°; N Plg11.0000°,Azm122.0000°; P Plg76.0000°,Azm263.0000°
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=98.6.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=136.0. Recorded [4 JMA] in Fukushima, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 12 31.5–.81**	**36.88N–.03**	**140.70E–.03**	**16–4**	**4.7b**	**272**	**0-152**
BJI	IV	11 09 12 28.9	36.72N	140.67E	15	5.2s,5.1b		**¶17200569**
IDC	IV	11 09 12 29.1–.44	36.92N	140.64E	0	4.5,4.5		
JMA	IV	11 09 12 30.7	36.89N	140.69E	6–1	4.7,4.5		
ISCJB	IV	11 09 12 31.1–.40	36.90N–.02	140.59E–.03	19–2	4.6s,4.6b		
MOS	IV	11 09 12 34.0–.98	37.27N	140.50E	27	4.9b,4.6b		
NEIC	IV	11 09 12 35.1–.20	36.89N	140.50E	35	4.7b,4.6b		

ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=138.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=28.5.
MOS Error ellipse: s-maj=7.6km s-min=5.3km az=100.3.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.5km az=153.0. Recorded [3 JMA] in Fukushima and Ibaraki.

(229) Off east coast of Honshu

ISC	**IV**	**11 09 17 13.5–.40**	**37.78N–.04**	**142.72E–.04**	**31–2**	**5.0s,4.7b**	**307**	**1-154**
IDC	IV	11 09 17 09.0–.47	37.76N	142.56E	0	4.5,4.5		**¶16416814**
BJI	IV	11 09 17 10.1	37.57N	142.35E	10	5.4s,5.0		
ISCJB	IV	11 09 17 10.1–1.1	37.73N–.03	142.57E–.03	15–7	4.9s,4.6b		
MOS	IV	11 09 17 11.3–1.2	37.89N	142.55E	23	4.8b,4.6b		
JMA	IV	11 09 17 13.3–.30	37.82N	142.52E	36	4.8,4.6b		
NEIC	IV	11 09 17 14.6–.15	37.74N	142.55E	35	4.7b,4.6b		

ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.4km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=162.4.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=92.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.0km az=145.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 19 05.7–.68**	**38.12N–.05**	**142.30E–.06**	**29–4**	**4.2b**	**50**	**1-146**
ISCJB	IV	11 09 19 02.8–1.1	38.10N–.04	142.36E–.05	21–7	4.8s,4.1b		**¶16416752**
JMA	IV	11 09 19 04.8–.30	38.14N	142.33E	37	4.5,4.1b		
IDC	IV	11 09 19 06.0–.65	38.09N	142.34E	29–3	4.9,4.9s		
NEIC	IV	11 09 19 05.1–2.0	38.10N	142.38E	23–14	4.2b,4.9s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.5km az=42.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=15.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=122.0. Recorded [2 JMA] in Fukushima, Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 23 23.0–.90**	**36.99N–.03**	**140.83E–.05**	**12–5**	**4.0b**	**46**	**0-147**
IDC	IV	11 09 23 21.2–.72	37.00N	140.84E	0	4.1,4.0		**¶16418128**
ISCJB	IV	11 09 23 22.4–.71	36.96N–.03	140.93E–.06	19–4	3.9b,4.0		
JMA	IV	11 09 23 23.5	36.96N	140.81E	10–1	4.3,4.0		
NEIC	IV	11 09 23 26.3–4.1	36.97N	140.84E	35–29	4.0b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=14.7km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.3km az=13.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s114.00000°,δ51.00000°,λ-66.00000°. NP2:ϕ_s258.00000°,δ45.00000°,λ-117.00000°. Principal axes: T Plg3.0000°,Azm187.0000°; N Plg19.0000°,Azm278.0000°; P Plg71.0000°,Azm88.0000°
NEIC Event type fe. Error ellipse: s-maj=16.0km s-min=8.0km az=67.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 30 33.8–.88**	**36.97N–.03**	**140.58E–.03**	**10–5**	**5.0s,4.7b**	**236**	**0-149**
ISCJB	IV	11 09 30 32.5–.52	36.97N–.02	140.50E–.03	8–3	5.0s,4.5b		**¶16416815**
BJI	IV	11 09 30 33.2	36.90N	140.56E	19	5.2s,4.9		
JMA	IV	11 09 30 33.4	36.91N	140.72E	6–1	4.7,4.9		
IDC	IV	11 09 30 34.3–4.2	36.93N	140.58E	15–25	5.3,5.2s		
MOS	IV	11 09 30 35.9–1.2	37.02N	140.54E	33	4.7b,5.2s		
NEIC	IV	11 09 30 38.4–.54	37.00N	140.47E	37–5	4.7b,5.2s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.2km az=25.5.
JMA Event type fe.
IDC Error ellipse: s-maj=15.4km s-min=11.7km az=101.0.
MOS Error ellipse: s-maj=9.7km s-min=5.7km az=94.1.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.0km az=120.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

JMA	**IV**	**11 09 31 33.6**	**36.96N**	**140.66E**	**8–1**	**3.9**		
								¶600583413

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 09 35 17.7–.96**	**37.06N–.04**	**140.67E–.04**	**10–6**	**3.6b**	**25**	**0-147**
IDC	IV	11 09 35 16.1–.75	37.08N	140.58E	0	4.6,4.6s		**¶602553101**
ISCJB	IV	11 09 35 17.2–.54	37.06N–.04	140.75E–.06	18–4	4.5s,3.7b		
JMA	IV	11 09 35 17.3	37.05N	140.67E	7–1	3.5,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=16.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.2km az=19.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ49.00000°,λ-77.00000°. NP2:ϕ_s211.00000°,δ43.00000°,λ-104.00000°. Principal axes: T Plg3.0000°,Azm131.0000°; N Plg10.0000°,Azm222.0000°; P Plg80.0000°,Azm24.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 36 19.5–.81**	**36.93N–.03**	**140.57E–.03**	**3–5**	**4.9s,4.8b**	**346**	**0-156**
BJI	IV	11 09 36 17.0	36.80N	140.84E	15	5.1b,5.0s		**¶16416817**
ISCJB	IV	11 09 36 18.1–.65	36.94N–.02	140.42E–.03	0–4	4.8b,4.7s		
JMA	IV	11 09 36 20.2	36.90N	140.68E	8–1	4.8,4.7s		
IDC	IV	11 09 36 20.9–2.6	36.91N	140.57E	12–16	4.6,4.5		
MOS	IV	11 09 36 24.1–.90	37.25N	140.39E	31	5.0b,4.5		
NEIC	IV	11 09 36 25.1–.55	36.95N	140.42E	37–5	4.8b,4.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=42.3.
JMA Event type fe.
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=102.0.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=93.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=141.0. Recorded [4 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**IV**	**11 09 39 23.9–1.6**	**36.98N–.10**	**140.66E–.06**	**6–19**		**12**	**0-61**
ISCJB	IV	11 09 39 23.9–.93	37.01N–.06	140.83E–.10	17–7	3.6b		**¶17200574**
JMA	IV	11 09 39 24.5	37.03N	140.68E	9–1	3.4		
IDC	IV	11 09 39 25.7–2.4	36.64N	140.63E	0	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=9.5km az=9.4.
JMA Event type fe.
IDC Error ellipse: s-maj=40.3km s-min=18.5km az=16.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**11 09 42 08.3**	**36.99N**	**140.75E**	**9–1**	**3.3**		
								¶600583414

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 09 44 58.2–.88**	**37.01N–.03**	**140.75E–.04**	**13–5**	**3.8b**	**34**	**0-82**
ISCJB	IV	11 09 44 57.4–.63	36.99N–.03	140.87E–.05	20–4	3.8b		**¶17200576**
JMA	IV	11 09 44 58.4	37.00N	140.75E	11–1	4.2		
IDC	IV	11 09 45 02.6–2.6	36.97N	140.80E	48–25	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.6km az=20.3.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=12.1km az=57.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 46 47.6–1.1**	**36.97N–.04**	**140.66E–.06**	**9–8**	**3.6b**	**23**	**0-91**
IDC	IV	11 09 46 45.5–.86	36.78N	140.77E	0	3.7,3.6		**¶17200577**
ISCJB	IV	11 09 46 47.3–.66	36.97N–.04	140.80E–.08	18–4	3.5b,3.6		
JMA	IV	11 09 46 48.2	36.99N	140.73E	10–1	3.9,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=14.3km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.7km az=13.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 48 13.5–.79**	**37.02N–.03**	**140.61E–.04**	**8–5**	**4.9s,4.5b**	**130**	**0-147**
IDC	IV	11 09 48 12.4–.48	37.04N	140.57E	0	4.9s,4.9		**¶16418130**
ISCJB	IV	11 09 48 13.6–.40	36.99N–.02	140.72E–.04	22–2	4.8s,4.5b		
JMA	IV	11 09 48 14.1	36.97N	140.65E	10–1	4.6,4.5b		
MOS	IV	11 09 48 15.6–1.2	37.06N	140.72E	35	4.7b,4.5b		
NEIC	IV	11 09 48 16.4–1.7	37.04N	140.62E	26–11	4.8b,4.5b		
BJI	IV	11 09 48 17.0	37.00N	140.60E	45	5.2b,4.7		

ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.4km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s326.00000°,δ66.00000°,λ-73.00000°. NP2:ϕ_s109.00000°,δ30.00000°,λ-124.00000°. Principal axes: T Plg19.0000°,Azm43.0000°; N Plg16.0000°,Azm139.0000°; P Plg65.0000°,Azm266.0000°
MOS Error ellipse: s-maj=8.1km s-min=5.7km az=93.9.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.3km az=117.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 52 25.6–.78**	**37.11N–.05**	**141.50E–.07**	**33**	**3.5b**	**20**	**1-147**
IDC	IV	11 09 52 20.8–.89	37.13N	141.51E	0	3.7,3.6		**¶600583419**
ISCJB	IV	11 09 52 24.0–.68	37.10N–.04	141.60E–.06	33	3.5b,3.6		
JMA	IV	11 09 52 26.9–.20	37.18N	141.43E	42–2	3.9,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=15.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=177.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**11 09 54 59.3–1.3**	**37.11N–.05**	**140.59E–.07**	**6–9**	**4.0b**	**36**	**0-147**
ISCJB	IV	11 09 54 59.7–.50	37.11N–.04	140.75E–.06	20–3	4.1b		**¶16587456**
JMA	IV	11 09 54 59.9	37.07N	140.68E	8–1	4.3		
IDC	IV	11 09 55 00.8–4.7	37.10N	140.57E	15–29	4.2,4.1		
NEIC	IV	11 09 55 05.7–.86	37.04N	140.55E	57–8	4.2b,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.1km az=7.3.
JMA Event type fe.
IDC Error ellipse: s-maj=18.0km s-min=13.3km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=7.5km az=87.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 09 57 26.5–.67**	**38.21N–.04**	**141.91E–.07**	**66–6**	**3.8b**	**40**	**1-146**
ISCJB	IV	11 09 57 25.5–.72	38.24N–.04	141.90E–.09	71–5	3.7b		**¶17200579**
JMA	IV	11 09 57 26.9–.10	38.26N	141.87E	62–1	4.1		
IDC	IV	11 09 57 26.4–.73	38.18N	141.65E	64–6	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.9km az=19.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=11.5km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 10 00 04.1–.72**	**36.95N–.03**	**140.61E–.03**	**4–4**	**4.7s,4.6b**	**235**	**0-147**
BJI	IV	11 10 00 03.2	36.82N	140.58E	11	5.2b,4.9s		**¶602553159**
JMA	IV	11 10 00 04.4	36.94N	140.72E	6–1	4.7,4.9s		
ISCJB	IV	11 10 00 04.6–.46	36.92N–.02	140.73E–.03	19–3	4.9s,4.5b		
MOS	IV	11 10 00 06.9–1.1	36.96N	140.71E	35	4.8b,4.5b		
NEIC	IV	11 10 00 08.8–.51	36.93N	140.61E	36–4	4.7b,4.5b		
IDC	IV	11 10 00 08.4–4.0	36.92N	140.61E	33–29	4.4,4.3		

ISC Event type fe.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ61.00000°,λ-113.00000°. NP2:ϕ_s131.00000°,δ36.00000°,λ-55.00000°. Principal axes: T Plg13.0000°,Azm17.0000°; N Plg20.0000°,Azm282.0000°; P Plg66.0000°,Azm139.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=27.9.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=98.9.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=120.0. Felt in eastern Honshu. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=14.6km s-min=11.2km az=99.0.

(227) Eastern Honshu

JMA	**IV**	**11 10 02 36.3**	**37.03N**	**140.62E**	**7–2**	**3.5**		
								¶600583429

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 10 05 06.3–1.0**	**37.07N–.03**	**140.60E–.04**	**8–7**	**3.8b**	**31**	**0-91**
ISCJB	IV	11 10 05 05.9–.56	37.08N–.03	140.69E–.04	15–4	4.1s,3.8b		**¶602945422**
JMA	IV	11 10 05 06.0	37.07N	140.62E	7–2	4.3,3.8b		
IDC	IV	11 10 05 12.5–2.8	37.06N	140.40E	56–26	4.3,4.2s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.6km az=28.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s279.00000°,δ46.00000°,λ-103.00000°. NP2:ϕ_s117.00000°,δ46.00000°,λ-77.00000°. Principal axes: T Plg0.0000°,Azm18.0000°; N Plg9.0000°,Azm288.0000°; P Plg81.0000°,Azm108.0000°
IDC Error ellipse: s-maj=20.8km s-min=16.2km az=67.0.

(227) Eastern Honshu

JMA	**IV**	**11 10 09 37.4**	**37.06N**	**140.74E**	**10–1**	**3.5**		
								¶600583430

JMA Event type fe.
(227) Eastern Honshu
JMA IV 11 10 10 08.4 37.09N 140.61E 14–1 3.9
¶600583433
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 11 10 17 12.0–1.9 36.50N–.04 141.35E–.05 15–11 3.9b 45 1-147
IDC IV 11 10 17 10.3–.61 36.49N 141.31E 0 4.3L,4.1 **¶600583454**
ISCJB IV 11 10 17 12.7–.89 36.50N–.03 141.39E–.05 29–6 3.8b,4.1
JMA IV 11 10 17 15.1–.10 36.57N 141.24E 42–2 3.9,4.1
NEIC IV 11 10 17 16.0–1.1 36.44N 141.27E 42–11 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.6km az=164.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.3km az=50.0.
(227) Eastern Honshu
ISC IV 11 10 19 00.1–.89 37.02N–.03 140.59E–.04 11–5 4.4b 108 0-147
IDC IV 11 10 18 58.7–.51 37.07N 140.59E 0 4.4,4.3 **¶16455918**
ISCJB IV 11 10 18 59.7–.42 37.03N–.03 140.65E–.04 19–3 4.7s,4.3b
JMA IV 11 10 18 59.6 37.02N 140.62E 9–1 4.6,4.3b
MOS IV 11 10 19 01.9–1.2 37.05N 140.50E 33 4.5b,4.3b
NEIC IV 11 10 19 04.0–.37 37.04N 140.58E 35 4.7b,4.3b
BJI IV 11 10 19 05.0 37.10N 140.40E 48 5.1b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=11.9km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=31.5.
JMA Event type fe.
MOS Error ellipse: s-maj=9.9km s-min=6.3km az=104.9.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=7.3km az=126.0. Recorded [3 JMA] in Fukushima.
(227) Eastern Honshu
ISC IV 11 10 25 46.1–.85 37.01N–.03 140.67E–.03 5–5 4.3b 98 0-152
IDC IV 11 10 25 45.1–.51 37.04N 140.64E 0 4.3,4.2 **¶602553174**
ISCJB IV 11 10 25 46.3–.44 37.01N–.02 140.75E–.04 18–3 4.4s,4.2b
JMA IV 11 10 25 46.7 37.02N 140.65E 8–1 4.4,4.2b
MOS IV 11 10 25 47.1–1.4 37.02N 140.79E 25 4.4b,4.2b
BJI IV 11 10 25 51.0 37.10N 140.60E 30 4.5,4.5b
NEIC IV 11 10 25 52.0–1.1 37.04N 140.68E 51–9 4.5b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=29.9.
JMA Event type fe.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=93.4.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=7.7km az=127.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC IV 11 10 29 11.5–1.1 36.96N–.03 140.70E–.05 6–7 3.8b 35 0-91
ISCJB IV 11 10 29 10.9–.58 36.94N–.03 140.78E–.05 11–3 3.9b **¶17200586**
IDC IV 11 10 29 10.8–.66 36.74N 140.70E 0 4.0,3.9
JMA IV 11 10 29 11.3 36.97N 140.74E 12–1 4.3,3.9
NEIC IV 11 10 29 17.6–1.1 36.74N 140.44E 50–10 4.0b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=14.0.
IDC Error ellipse: s-maj=18.2km s-min=14.5km az=101.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ63.00000°,λ-108.00000°. NP2:ϕ_s192.00000°,δ32.00000°,λ-59.00000°. Principal axes: T Plg16.0000°,Azm79.0000°; N Plg16.0000°,Azm344.0000°; P Plg67.0000° ,Azm211.0000°
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=9.3km az=103.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC IV 11 10 31 09.1–.88 36.91N–.03 140.64E–.05 7–5 4.1b 57 0-152
IDC IV 11 10 31 08.0–.52 36.87N 140.65E 0 4.2,4.1 **¶16418133**
ISCJB IV 11 10 31 09.2–.56 36.88N–.03 140.78E–.05 18–4 4.0b,4.1
JMA IV 11 10 31 09.7 36.90N 140.69E 9–1 4.3,4.1
NEIC IV 11 10 31 14.3–.73 36.83N 140.55E 46–7 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=13.2km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.1km az=17.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.3km az=109.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
ISC IV 11 10 34 48.5–.97 36.92N–.03 140.69E–.04 11–6 3.8b 30 0-69
IDC IV 11 10 34 46.7–.97 36.93N 140.75E 0 3.8,3.7 **¶600583482**
ISCJB IV 11 10 34 47.8–.59 36.90N–.03 140.79E–.05 19–4 3.6b,3.7
JMA IV 11 10 34 48.4 36.92N 140.69E 7–1 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=18.8km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=18.1.
JMA Event type fe.
(227) Eastern Honshu
ISC IV 11 10 50 22.4–1.0 37.02N–.03 140.72E–.06 7–7 3.7b 22 0-64
ISCJB IV 11 10 50 21.5–.76 37.00N–.04 140.85E–.08 14–4 3.6b **¶600583517**
IDC IV 11 10 50 21.1–.91 37.01N 140.70E 0 3.8,3.7b
JMA IV 11 10 50 22.2 37.01N 140.73E 8–1 3.6,3.7b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.0km az=7.9.
IDC Error ellipse: s-maj=22.2km s-min=19.2km az=94.0.
JMA Event type fe.
(227) Eastern Honshu
ISC IV 11 10 59 10.2–1.0 37.06N–.04 140.69E–.05 6–7 4.0b 49 0-147
IDC IV 11 10 59 09.1–.56 37.02N 140.66E 0 4.2,4.1 **¶602553145**
JMA IV 11 10 59 10.2 37.07N 140.70E 6–2 4.5,4.1
NEIC IV 11 10 59 15.1–.76 37.00N 140.69E 42–7 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.2km az=113.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=118.0. Recorded [3 JMA] in Fukushima and Ibaraki.
(227) Eastern Honshu
JMA IV 11 11 00 34.2 37.02N 140.70E 11–1 4.4
¶602553151
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 11 11 12 40.9–1.1 36.93N–.03 140.63E–.05 4–7 4.0b 55 0-147
ISCJB IV 11 11 12 40.3–.61 36.91N–.03 140.78E–.05 16–4 4.0b **¶16587457**
JMA IV 11 11 12 41.0 36.95N 140.66E 8–1 4.3
NEIC IV 11 11 12 43.9–2.7 36.82N 140.55E 26–20 4.3b
IDC IV 11 11 12 46.8–1.8 36.86N 140.40E 47–18 4.0,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=20.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s284.00000°,δ73.00000°,λ-97.00000°. NP2:ϕ_s128.00000°,δ18.00000°,λ-68.00000°. Principal axes: T Plg28.0000°,Azm20.0000°; N Plg7.0000°,Azm286.0000°; P Plg61.0000° ,Azm184.0000°
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.4km az=80.0.
IDC Error ellipse: s-maj=18.3km s-min=10.9km az=83.0.
(228) Near east coast of eastern Honshu
ISC IV 11 11 23 22.1–1.1 36.72N–.03 140.61E–.04 4–7 3.6b 24 0-91
ISCJB IV 11 11 23 21.4–.60 36.71N–.03 140.65E–.05 9–3 3.5b **¶17200600**
JMA IV 11 11 23 21.8 36.70N 140.63E 7–1 3.8
IDC IV 11 11 23 21.5–.92 36.77N 140.55E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.5km az=27.7.
JMA Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=19.3km az=120.0.
(227) Eastern Honshu
ISC IV 11 11 23 58.6–1.0 36.99N–.05 140.64E–.06 12–10 13 0-61
IDC IV 11 11 23 56.7–5.8 36.97N 141.08E 0 3.8,3.5 **¶602553152**
ISCJB IV 11 11 23 57.9–.95 36.95N–.06 140.82E–.09 20–7 3.6b,3.5
JMA IV 11 11 23 58.9 37.00N 140.63E 10–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=117.4km s-min=44.0km az=25.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.7km az=25.7.
JMA Event type fe.
(227) Eastern Honshu
JMA IV 11 11 24 30.4 37.06N 140.72E 6–1 3.0
¶602553156
JMA Event type fe.
(227) Eastern Honshu
ISC IV 11 11 27 29.0–.66 37.05N–.03 140.70E–.04 7–4 4.7b,4.3s 288 0-147
IDC IV 11 11 27 28.0–.47 37.04N 140.64E 0 4.6,4.5 **¶602553073**
JMA IV 11 11 27 29.8 37.04N 140.68E 11–1 4.6,4.5
ISCJB IV 11 11 27 29.6–.41 37.05N–.02 140.63E–.03 16–2 4.6b,4.3s
BJI IV 11 11 27 29.8 36.91N 140.70E 22 5.0b,4.6b
MOS IV 11 11 27 32.0–.83 37.36N 140.48E 26 4.8b,4.6b
NEIC IV 11 11 27 34.0–.50 37.08N 140.53E 36–4 4.7b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.7km az=128.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s144.00000°,δ70.00000°,λ-93.00000°. NP2:ϕ_s332.00000°,δ20.00000°,λ-82.00000°. Principal axes: T Plg25.0000°,Azm236.0000°; N Plg3.0000°,Azm145.0000°; P Plg65.0000° ,Azm49.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=139.4.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=86.1.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=141.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
(228) Near east coast of eastern Honshu
ISC IV 11 11 42 35.7–.40 37.01N–.02 140.52E–.03 16–2 5.7b,5.0s 1817 0-165
NIED IV 11 11 42 00 36.90N 140.60E 8 5.5W,5.0s **¶602553182**
ISCJB IV 11 11 42 32.9–.45 37.00N–.01 140.42E–.02 5–2 5.6b,5.0s
BJI IV 11 11 42 33.9 37.00N 140.50E 14 5.4b,5.4s
GCMT IV 11 11 42 35.1–.20 37.01N 140.53E 12–0 5.5W,5.4s
NEIC IV 11 11 42 35.1–.07 36.98N 140.36E 10 5.6b,5.5W
JMA IV 11 11 42 35.1 36.97N 140.63E 11–1 5.9,5.5W
IDC IV 11 11 42 37.7–1.3 36.98N 140.48E 28–8 5.4,5.3
MOS IV 11 11 42 38.6–.87 37.27N 140.39E 36 5.8b,5.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ28.00000°,λ-86.00000°. NP2:ϕ_s264.00000°,δ62.00000°,λ-92.00000°. M$_0$1.72000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=148.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s64,c94; s116,c230;Duration: 1^{s}4 Moment tensor: Scale 10^{17}Nm; M$_{rr}$-1.86±.06 M$_{\theta\theta}$1.95±.04; M$_{\phi\phi}$-0.09±.04; M$_{r\theta}$0.45±.09; M$_{\theta\phi}$0.01±.03; M$_{\phi r}$0.96±.13; Best double couple: NP1: ϕ_s247.00000°,δ56.00000°,λ-117.00000°. NP2:ϕ_s110.00000°,δ42.00000°,λ-55.00000°. Principal axes: T 2.0100,Plg8.0000°,Azm356.0000°; N 0.3070,Plg23.0000°,Azm263.0000° ; P -2.3220,Plg66.0000°,Azm104.0000° M$_0$2.16600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=137.0. Felt at Ebina, Mishima, Shibukawa, Tokyo, Tsukuba, Yashio and Yokosuka. Recorded [5L JMA] in Fukushima. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M$_{rr}$-2.01 M$_{\theta\theta}$1.75 M$_{\phi\phi}$0.27 M$_{r\theta}$0.66 M$_{\theta\phi}$0.02 M$_{\phi r}$0.39 Best double couple: NP1:ϕ_s260.00000°,δ56.00000°,λ-100.00000°. NP2:ϕ_s97.00000°,δ36.00000°,λ-76.00000°. Principal axes: T 1.8700,Plg10.0000° ,Azm357.0000°; N 0.3200,Plg8.0000°,Azm265.0000°; P -2.1900,Plg77.0000°,Azm137.0000° M$_0$2.00000×10^{17}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s260.00000° ,δ67.00000°,λ-79.00000°. NP2:ϕ_s54.00000°,δ25.00000°,λ-115.00000°. Principal axes: T Plg21.0000°,Azm342.0000°; N Plg10.0000°,Azm76.0000°; P Plg66.0000°,Azm190.0000°
IDC Error ellipse: s-maj=10.1km s-min=7.1km az=77.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=108.6.
(228) Near east coast of eastern Honshu
ISC IV 11 11 53 54.0–1.2 36.98N–.03 140.55E–.05 10–8 3.7b 25 0-78
ISCJB IV 11 11 53 53.0–.93 36.94N–.03 140.81E–.06 16–6 3.6b **¶600583604**
IDC IV 11 11 53 52.5–.89 36.95N 140.65E 0 3.8,3.7
JMA IV 11 11 53 53.7 36.96N 140.71E 7–1 3.7,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=12.8.
IDC Error ellipse: s-maj=22.3km s-min=17.3km az=98.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA IV 11 12 05 03.9 36.96N 140.69E 13–1 3.6
¶600583639
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 11 12 06 17.1–1.1 36.94N–.03 140.60E–.04 5–7 3.8b 49 0-147
IDC IV 11 12 06 16.4–.56 36.88N 140.47E 0 4.0,3.9 **¶16505332**
ISCJB IV 11 12 06 17.0–1.4 36.94N–.02 140.68E–.04 15–9 3.8b,3.9
JMA IV 11 12 06 17.1 36.95N 140.62E 9–1 4.0,3.9
NEIC IV 11 12 06 18.6–3.2 36.83N 140.52E 15–20 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=12.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.7km az=26.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s274.00000°,δ72.00000°,λ-91.00000°. NP2:ϕ_s97.00000°,δ18.00000°,λ-87.00000°. Principal axes: T Plg27.0000°,Azm5.0000°; N Plg1.0000°,Azm275.0000°; P Plg63.0000° ,Azm183.0000°
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.3km az=90.0.
(227) Eastern Honshu
ISC IV 11 12 15 32.1–.99 37.04N–.03 140.68E–.04 6–8 3.6b 28 0-61
ISCJB IV 11 12 15 31.3–.55 37.03N–.03 140.79E–.05 13–3 3.7b **¶17200607**
JMA IV 11 12 15 31.9 37.04N 140.70E 8–1 3.6
IDC IV 11 12 15 38.0–2.8 36.97N 140.56E 53–27 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.1km az=12.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s255.00000°,δ53.00000°,λ-75.00000°. NP2:ϕ_s50.00000°,δ39.00000°,λ-109.00000°. Principal axes: T Plg7.0000°,Azm334.0000°; N Plg12.0000°,Azm65.0000°; P Plg76.0000° ,Azm214.0000°
IDC Error ellipse: s-maj=28.3km s-min=14.7km az=81.0.
(228) Near east coast of eastern Honshu
ISC IV 11 12 27 38.5–1.2 36.92N–.03 140.71E–.04 5–8 3.6b 25 0-61
ISCJB IV 11 12 27 38.0–.59 36.91N–.02 140.74E–.06 11–4 3.4b **¶600583677**
IDC IV 11 12 27 38.1–1.2 36.96N 140.65E 0 3.7L,3.6
JMA IV 11 12 27 38.3 36.92N 140.71E 6–1 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.9km az=11.6.
IDC Error ellipse: s-maj=26.0km s-min=21.5km az=89.0.
JMA Event type fe.
(227) Eastern Honshu
ISC IV 11 12 37 15.6–.85 37.04N–.03 140.72E–.06 12–6 3.6b 28 0-91
IDC IV 11 12 37 13.4–.91 37.10N 140.96E 0 3.8,3.8 **¶600583687**
ISCJB IV 11 12 37 15.1–.56 37.03N–.03 140.83E–.06 18–4 3.8s,3.7b
JMA IV 11 12 37 16.0 37.04N 140.71E 8–1 3.6,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=17.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.4km az=14.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s259.00000°,δ52.00000°,λ-83.00000°. NP2:ϕ_s67.00000°,δ38.00000°,λ-99.00000°. Principal axes: T Plg7.0000°,Azm344.0000°; N Plg6.0000°,Azm75.0000°; P Plg81.0000° ,Azm205.0000°
(227) Eastern Honshu
ISC IV 11 12 45 37.7–.94 37.05N–.03 140.65E–.03 12–7 25 0-61
ISCJB IV 11 12 45 37.8–.50 37.03N–.03 140.71E–.05 17–5 3.5b,3.4s **¶17200618**
IDC IV 11 12 45 37.8–2.6 36.87N 140.71E 0 3.8,3.7L
JMA IV 11 12 45 38.1 37.04N 140.61E 7–2 3.4,3.7L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.6km az=9.5.
IDC Error ellipse: s-maj=40.2km s-min=26.4km az=44.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC IV 11 12 47 19.9–1.1 36.97N–.03 140.59E–.04 6–7 4.1b 61 0-147
NIED IV 11 12 47 00 36.90N 140.70E 5 4.1W **¶16505333**
ISCJB IV 11 12 47 19.6–.56 36.93N–.03 140.77E–.04 16–4 4.1b
IDC IV 11 12 47 19.0–.49 36.95N 140.50E 0 4.3,4.1
JMA IV 11 12 47 20.0 36.95N 140.68E 7–1 4.3,4.1
NEIC IV 11 12 47 24.4–.35 36.96N 140.57E 35 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ45.00000°,λ-115.00000°. NP2:ϕ_s246.00000°,δ50.00000°,λ-68.00000°. $M_0$1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.7km az=26.4.
IDC Error ellipse: s-maj=18.4km s-min=12.7km az=94.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ47.00000°,λ-102.00000°. NP2:ϕ_s239.00000°,δ45.00000°,λ-77.00000°. Principal axes: T Plg1.0000°,Azm140.0000°; N Plg9.0000°,Azm50.0000°; P Plg81.0000°,Azm236.0000°
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.0km az=144.0.

(228) Near east coast of eastern Honshu

ISC IV 11 12 52 44.0–.88 36.91N–.03 140.67E–.05 20–3 3.6b 24 0-61
IDC IV 11 12 52 38.2–2.0 37.10N 141.18E 0 3.6,3.5 **¶17200619**
ISCJB IV 11 12 52 43.6–.59 36.90N–.03 140.75E–.06 28–4 3.4b,3.5
JMA IV 11 12 52 44.5–.10 36.91N 140.64E 19–2 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=53.3km s-min=20.7km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.4km az=14.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 11 12 59 49.7–1.0 36.92N–.04 140.71E–.06 13–7 3.6b 19 0-61
ISCJB IV 11 12 59 48.7–.92 36.91N–.04 140.82E–.08 21–5 3.5b **¶600583709**
IDC IV 11 12 59 48.0–7.6 35.89N 141.02E 55–57 4.1L,3.6
JMA IV 11 12 59 49.8 36.92N 140.72E 10–1 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.6km az=18.5.
IDC Error ellipse: s-maj=68.4km s-min=20.5km az=65.0.
JMA Event type fe.

(227) Eastern Honshu

ISC IV 11 13 05 40.6–.78 37.03N–.03 140.64E–.04 16–4 4.8b,4.0s 340 0-147
NIED IV 11 13 05 00 37.00N 140.80E 5 4.4W,4.0s **¶16706464**
ISCJB IV 11 13 05 38.8–.52 37.05N–.02 140.52E–.03 11–3 4.7b,4.0s
BJI IV 11 13 05 39.9 36.78N 140.56E 26 4.9b,4.6b
MOS IV 11 13 05 40.9–1.0 37.09N 140.57E 26 4.9b,4.6b
JMA IV 11 13 05 40.2 37.02N 140.69E 11–1 4.7,4.6b
NEIC IV 11 13 05 44.7–.50 37.07N 140.49E 42–4 4.8b,4.6b
IDC IV 11 13 05 45.6–2.0 37.07N 140.51E 51–17 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ43.00000°,λ-113.00000°. NP2:ϕ_s75.00000°,δ51.00000°,λ-70.00000°. $M_0$3.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=137.9.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=100.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s86.00000°,δ55.00000°,λ-63.00000°. NP2:ϕ_s224.00000°,δ43.00000°,λ-123.00000°. Principal axes: T Plg6.0000°,Azm157.0000°; N Plg22.0000°,Azm249.0000°; P Plg67.0000°,Azm52.0000°
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=136.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=115.0.

(228) Near east coast of eastern Honshu

ISC IV 11 13 21 19.7–.99 36.92N–.06 140.7E–.10 23–7 3.7b 18 0-91
NIED IV 11 13 21 00 37.00N 140.70E 11 3.8W **¶600583725**
IDC IV 11 13 21 16.1–.89 36.89N 140.69E 0 3.8,3.7b
ISCJB IV 11 13 21 18.8–.57 36.92N–.05 140.7E–.10 30–4 3.7b,3.7b
JMA IV 11 13 21 20.1 36.95N 140.61E 17–1 4.0,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ23.00000°,λ-160.00000°. NP2:ϕ_s192.00000°,δ82.00000°,λ-68.00000°. $M_0$6.49000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=14.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.1km az=19.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 11 13 24 12.2–.48 38.24N–.04 142.41E–.05 30–2 4.4b,3.8s 229 1-150
BJI IV 11 13 24 08.5 38.20N 142.40E 5 4.7b,4.5b **¶16455922**
MOS IV 11 13 24 09.8–1.1 38.21N 142.45E 25 4.6b,4.5b
NEIC IV 11 13 24 10.6–2.0 38.14N 142.41E 18–12 4.5b,4.5b
IDC IV 11 13 24 14.4–.65 38.15N 142.40E 46–5 4.3,4.2
JMA IV 11 13 24 29.7 36.97N 140.62E 11–1 3.9,4.2
ISC Event type se.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=90.6.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=118.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.4km s-min=10.5km az=127.0.
JMA Event type fe.

(227) Eastern Honshu

ISC IV 11 13 46 07.2–1.0 36.73N–.04 138.70E–.04 7–8 3.6b,3.1s 27 0-77
NIED IV 11 13 46 00 36.80N 138.60E 5 4.0W,3.1s **¶602553105**
IDC IV 11 13 46 05.8–.85 36.61N 138.77E 0 3.8,3.7
ISCJB IV 11 13 46 06.7–.49 36.81N–.03 138.58E–.04 10–4 3.5b,3.1s
JMA IV 11 13 46 06.7 36.83N 138.58E 0 3.8,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ71.00000°,λ-178.00000°. NP2:ϕ_s18.00000°,δ88.00000°,λ-19.00000°. $M_0$9.62000×10^{14}
IDC Error ellipse: s-maj=20.8km s-min=7.6km az=161.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=39.8.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 11 13 59 50.8–1.1 36.95N–.03 140.64E–.04 7–7 3.9b 38 0-147
NIED IV 11 13 59 00 36.90N 140.70E 5 3.9W **¶600583756**
ISCJB IV 11 13 59 50.4–.59 36.94N–.03 140.71E–.05 17–4 3.9b,2.9s
JMA IV 11 13 59 50.6 36.94N 140.67E 7–1 4.2,2.9s
IDC IV 11 13 59 54.6–3.9 36.88N 140.43E 33–30 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ41.00000°,λ-85.00000°. NP2:ϕ_s294.00000°,δ49.00000°,λ-95.00000°. $M_0$7.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=19.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ54.00000°,λ-104.00000°. NP2:ϕ_s128.00000°,δ38.00000°,λ-72.00000°. Principal axes: T Plg8.0000°,Azm25.0000°; N Plg11.0000°,Azm293.0000°; P Plg76.0000°,Azm151.0000°
IDC Error ellipse: s-maj=20.0km s-min=14.6km az=82.0.

(228) Near east coast of eastern Honshu

ISC IV 11 14 02 05.8–.93 36.89N–.03 140.71E–.04 13–5 4.1b,4.0s 67 0-147
NIED IV 11 14 02 00 36.90N 140.70E 5 4.0W,4.0s **¶16424682**
IDC IV 11 14 02 03.8–.53 36.88N 140.66E 0 4.1,4.0
ISCJB IV 11 14 02 05.2–.56 36.89N–.03 140.76E–.05 20–3 4.0b,3.9s
JMA IV 11 14 02 05.8 36.91N 140.68E 8–1 4.1,3.9s
NEIC IV 11 14 02 07.6–2.1 36.88N 140.70E 24–15 4.2b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ28.00000°,λ-90.00000°. NP2:ϕ_s170.00000°,δ62.00000°,λ-90.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=13.2km s-min=11.7km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.6km az=21.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.3km az=90.0.

(228) Near east coast of eastern Honshu

ISC IV 11 14 07 08.0–.98 36.90N–.03 140.70E–.05 13–7 3.4b 23 0-61
IDC IV 11 14 07 06.1–1.1 36.89N 140.70E 0 3.6,3.5 **¶17200628**
ISCJB IV 11 14 07 07.2–.72 36.88N–.03 140.80E–.06 19–5 3.4b,3.5
JMA IV 11 14 07 08.0 36.89N 140.70E 9–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=17.4km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.9km az=15.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ57.00000°,λ-91.00000°. NP2:ϕ_s167.00000°,δ33.00000°,λ-88.00000°. Principal axes: T Plg12.0000°,Azm76.0000°; N Plg1.0000°,Azm346.0000°; P Plg78.0000°,Azm251.0000°

(227) Eastern Honshu

ISC IV 11 14 08 48.1–.91 37.01N–.03 140.67E–.04 9–6 4.1b,4.0s 73 0-147
NIED IV 11 14 08 00 37.00N 140.70E 5 4.0W,4.0s **¶17200629**
IDC IV 11 14 08 46.7–.58 37.02N 140.61E 0 4.2,4.0
ISCJB IV 11 14 08 47.8–.44 37.02N–.02 140.72E–.04 19–3 4.2b,3.9s
JMA IV 11 14 08 48.2 37.02N 140.68E 9–1 4.3,3.9s
NEIC IV 11 14 08 50.8–1.9 36.95N 140.64E 28–14 4.4b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ36.00000°,λ-96.00000°. NP2:ϕ_s225.00000°,δ55.00000°,λ-86.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=11.5km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=17.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ46.00000°,λ-82.00000°. NP2:ϕ_s221.00000°,δ44.00000°,λ-99.00000°. Principal axes: T Plg1.0000°,Azm137.0000°; N Plg6.0000°,Azm227.0000°; P Plg84.0000°,Azm41.0000°
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=107.0.

(227) Eastern Honshu

ISC IV 11 14 12 06.1–1.0 36.99N–.05 140.70E–.05 10–9 3.6b 18 0-61
ISCJB IV 11 14 12 05.8–.67 37.01N–.03 140.78E–.07 20–5 3.6b **¶600583780**
JMA IV 11 14 12 06.7 37.03N 140.70E 10–1 3.4
IDC IV 11 14 12 07.4–2.5 36.75N 140.05E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.3km az=5.6.
JMA Event type fe.
IDC Error ellipse: s-maj=55.9km s-min=25.9km az=52.0.

(227) Eastern Honshu

ISC IV 11 14 19 16.6–.94 37.03N–.03 140.63E–.04 16–7 3.5b 20 0-69
ISCJB IV 11 14 19 16.3–.59 37.01N–.03 140.70E–.06 24–4 3.5b **¶17200632**
JMA IV 11 14 19 17.2 37.02N 140.62E 10–1 3.7
IDC IV 11 14 19 22.9–2.7 36.71N 140.62E 87–29 3.7,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.6km az=10.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s122.00000°,δ53.00000°,λ-85.00000°. NP2:ϕ_s293.00000°,δ37.00000°,λ-97.00000°. Principal axes: T Plg8.0000°,Azm208.0000°; N Plg4.0000°,Azm299.0000°; P Plg81.0000°,Azm55.0000°
IDC Error ellipse: s-maj=36.5km s-min=22.7km az=23.0.

(230) Near south coast of eastern Honshu

JMA IV 11 14 22 25.1–.10 35.39N 139.07E 12–1 2.5 ¶600583785
JMA Event type fe.

(227) Eastern Honshu

JMA IV 11 14 26 03.3 37.09N 140.65E 16–1 3.7 ¶602553112
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 11 14 37 20.6–.68 36.90N–.03 140.65E–.05 10 3.6b 22 0-147
NIED IV 11 14 37 00 36.90N 140.70E 5 3.6W **¶600583804**
ISCJB IV 11 14 37 19.2–.59 36.88N–.03 140.76E–.06 10 3.4b
JMA IV 11 14 37 20.8 36.90N 140.67E 6–1 3.9
IDC IV 11 14 37 24.3–4.8 36.91N 140.45E 35–38 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s189.00000°,δ65.00000°,λ-85.00000°. $M_0$3.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.2km az=7.8.
JMA Event type fe.
IDC Error ellipse: s-maj=27.9km s-min=17.5km az=81.0.

(229) Off east coast of Honshu

ISC IV 11 15 08 08.5–.45 37.59N–.05 142.58E–.05 35 4.2b,4.1s 120 1-146
IDC IV 11 15 08 03.9–.57 37.61N 142.48E 0 4.2,4.1 **¶16417148**
JMA IV 11 15 08 03.1–.20 37.65N 142.53E 0 4.4,4.1
ISCJB IV 11 15 08 06.7–.32 37.62N–.03 142.60E–.04 35 4.3b,3.8s
BJI IV 11 15 08 06.3 37.45N 142.36E 17 4.7b,4.5b
MOS IV 11 15 08 07.4–1.1 37.69N 142.52E 37 4.5b,4.5b
NEIC IV 11 15 08 08.8–.42 37.62N 142.55E 35–2 4.5b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=12.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.6km az=138.1.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=90.4.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=123.0.

(228) Near east coast of eastern Honshu

ISC IV 11 15 21 39.3–.66 36.87N–.03 140.50E–.04 14–4 4.8b,3.9s 349 0-147
NIED IV 11 15 21 00 36.80N 140.50E 5 4.5W,3.9s **¶16417149**
IDC IV 11 15 21 37.6–.44 36.89N 140.40E 0 4.6,4.5
ISCJB IV 11 15 21 37.7–.62 36.85N–.03 140.38E–.03 8–4 4.7b,3.9s
JMA IV 11 15 21 38.9 36.84N 140.51E 7–1 4.8,3.9s
BJI IV 11 15 21 38.6 36.65N 140.66E 38 4.9b,4.6b
MOS IV 11 15 21 42.2–.96 37.18N 140.35E 29 4.9b,4.6b
NEIC IV 11 15 21 43.8–.49 36.90N 140.26E 41–4 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ42.00000°,λ-93.00000°. NP2:ϕ_s49.00000°,δ48.00000°,λ-88.00000°. $M_0$6.11000×10^{15}
IDC Error ellipse: s-maj=13.6km s-min=10.5km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=155.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s54.00000°,δ55.00000°,λ-99.00000°. NP2:ϕ_s249.00000°,δ36.00000°,λ-78.00000°. Principal axes: T Plg10.0000°,Azm150.0000°; N Plg7.0000°,Azm59.0000°; P Plg78.0000°,Azm292.0000°
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=97.2.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=143.0. Recorded [3 JMA] in Fukushima and Miyagi.

(227) Eastern Honshu

JMA IV 11 15 24 23.6 37.10N 140.61E 13–1 3.7 ¶600583889
JMA Event type fe.

(227) Eastern Honshu

JMA IV 11 15 25 00.3 37.01N 140.70E 8–1 3.6 ¶600583892
JMA Event type fe.

(227) Eastern Honshu

ISC IV 11 15 26 29.5–.94 37.01N–.03 140.68E–.04 10–6 3.7b 35 0-147
NIED IV 11 15 26 00 37.00N 140.70E 5 3.7W **¶17200642**
IDC IV 11 15 26 28.2–.65 37.04N 140.64E 0 4.0,3.8
ISCJB IV 11 15 26 29.1–.56 37.00N–.03 140.77E–.05 17–4 3.7b,3.8
JMA IV 11 15 26 29.5 37.01N 140.68E 8–1 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ37.00000°,λ-75.00000°. NP2:ϕ_s36.00000°,δ54.00000°,λ-101.00000°. $M_0$4.15000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=15.7km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.7km az=19.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ54.00000°,λ-84.00000°. NP2:ϕ_s245.00000°,δ36.00000°,λ-98.00000°. Principal axes: T Plg9.0000°,Azm161.0000°; N Plg5.0000°,Azm252.0000°; P Plg80.0000°,Azm10.0000°

(227) Eastern Honshu

ISC IV 11 15 38 55.3–.95 37.01N–.04 140.69E–.04 12–7 3.3b 22 0-61
IDC IV 11 15 38 53.9–1.1 37.06N 140.65E 0 3.6,3.4 **¶17200644**
ISCJB IV 11 15 38 54.9–.68 36.99N–.04 140.79E–.06 17–5 3.4b,3.4
JMA IV 11 15 38 55.6 37.01N 140.69E 8–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=23.1km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.1km az=19.0.
JMA Event type fe.

(227) Eastern Honshu

ISC IV 11 15 41 19.7–.94 37.02N–.03 140.69E–.06 12–8 3.3b 21 0-61
IDC IV 11 15 41 17.2–2.3 37.12N 140.81E 0 3.4,3.2 **¶17200645**
ISCJB IV 11 15 41 19.2–.73 37.01N–.03 140.80E–.06 18–5 3.2b,3.2
JMA IV 11 15 41 20.0 37.02N 140.69E 9–1 3.4,3.2

ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=30.0km az=33.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.3km az=9.6.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**IV**	**11 15 43 14.1–.41**	**36.91N–.04**	**140.70E–.05**	**10**	**4.4b,3.3s**	**128**	**0-147**
NIED	IV	11 15 43 00	36.90N	140.70E	8	4.2W,3.3s		¶16417150
ISCJB	IV	11 15 43 12.7–.25	36.91N–.03	140.74E–.04	10	4.3b,3.5s		
JMA	IV	11 15 43 14.3	36.94N	140.65E	11–1	4.5,3.5s		
MOS	IV	11 15 43 14.4–1.5	36.94N	140.75E	25	4.5b,3.5s		
NEIC	IV	11 15 43 18.6–.67	36.92N	140.52E	42–6	4.4b,3.5s		
IDC	IV	11 15 43 19.2–1.5	36.88N	140.61E	48–14	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ48.00000°,λ-133.00000°. NP2:ϕ_s161.00000°,δ57.00000°,λ-53.00000°. $M_0$2.36000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=37.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ49.00000°,λ-121.00000°. NP2:ϕ_s147.00000°,δ49.00000°,λ-59.00000°. Principal axes: T Plg0.0000°,Azm36.0000°; N Plg23.0000°,Azm306.0000°; P Plg67.0000°,Azm126.0000°
MOS Error ellipse: s-maj=8.9km s-min=6.4km az=87.8.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=125.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=12.2km s-min=9.7km az=70.0.
(227) Eastern Honshu

JMA	**IV**	**11 15 48 19.5–.10**	**37.08N**	**140.87E**	**7–1**	**2.8**		**¶600583908**

JMA Event type fe.
(227) Eastern Honshu

ISC	**IV**	**11 15 55 12.8–.86**	**37.01N–.03**	**140.68E–.05**	**12–5**	**3.8b**	**55**	**0-147**
NIED	IV	11 15 55 00	37.00N	140.70E	8	3.8W		¶16525108
IDC	IV	11 15 55 11.0–.56	37.04N	140.70E	0	4.0,3.9		
ISCJB	IV	11 15 55 12.1–.54	36.99N–.03	140.84E–.05	19–3	3.9b,3.9		
JMA	IV	11 15 55 13.0	37.00N	140.72E	11–1	4.1,3.9		
NEIC	IV	11 15 55 17.2–.75	36.97N	140.71E	47–7	4.5b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ42.00000°,λ-106.00000°. NP2:ϕ_s142.00000°,δ50.00000°,λ-76.00000°. $M_0$5.45000×10^{14}
IDC Error ellipse: s-maj=16.5km s-min=13.4km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=16.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s133.00000°,δ50.00000°,λ-74.00000°. NP2:ϕ_s289.00000°,δ42.00000°,λ-108.00000°. Principal axes: T Plg4.0000°,Azm212.0000°; N Plg12.0000°,Azm303.0000°; P Plg77.0000°,Azm103.0000°
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.4km az=113.0.
(227) Eastern Honshu

ISC	**IV**	**11 15 57 57.0–.55**	**37.05N–.03**	**140.59E–.03**	**16–3**	**4.9b,4.2s**	**508**	**0-153**
NIED	IV	11 15 57 00	37.10N	140.70E	5	4.7W,4.2s		¶16417151
ISCJB	IV	11 15 57 55.3–.59	37.05N–.02	140.44E–.03	10–3	4.8b,4.2s		
JMA	IV	11 15 57 55.8	37.06N	140.65E	11–1	5.0,4.2s		
IDC	IV	11 15 57 57.6–3.0	37.08N	140.55E	16–18	4.6,4.6		
MOS	IV	11 15 57 58.7–.95	37.08N	140.38E	33	5.0b,4.6		
BJI	IV	11 15 57 59.4	37.10N	140.40E	43	4.9b,4.7b		
NEIC	IV	11 15 58 01.7–.53	37.06N	140.38E	46–5	4.9b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ37.00000°,λ-79.00000°. NP2:ϕ_s180.00000°,δ54.00000°,λ-98.00000°. $M_0$1.48000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.0km az=31.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s213.00000°,δ46.00000°,λ-97.00000°. NP2:ϕ_s43.00000°,δ44.00000°,λ-83.00000°. Principal axes: T Plg1.0000°,Azm308.0000°; N Plg5.0000°,Azm218.0000°; P Plg85.0000°,Azm49.0000°
IDC Error ellipse: s-maj=12.5km s-min=9.5km az=98.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=105.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=130.0. Recorded [4 JMA] in Fukushima.
(227) Eastern Honshu

JMA	**IV**	**11 16 02 49.5**	**37.10N**	**140.59E**	**15–1**	**3.3**		**¶600583914**

JMA Event type fe.
(227) Eastern Honshu

ISC	**IV**	**11 16 13 43.7–1.1**	**37.12N–.09**	**140.7E–.10**	**14–9**	**3.4b**	**11**	**0-61**
ISCJB	IV	11 16 13 41.9–1.4	37.17N–.07	140.9E–.10	22–7	3.6b		¶17200652
IDC	IV	11 16 13 41.2–1.6	37.15N	140.80E	0	3.8,3.7b		
JMA	IV	11 16 13 43.5	37.07N	140.65E	7–1	3.6,3.7b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=10.2km az=157.4.
IDC Error ellipse: s-maj=36.3km s-min=21.9km az=55.0.
JMA Event type fe.
(227) Eastern Honshu

ISC	**IV**	**11 16 19 24.8–.56**	**36.15N–.06**	**141.76E–.07**	**23**	**4.2b,3.6s**	**95**	**1-142**
JMA	IV	11 16 19 19.7	37.10N	140.66E	15–1	4.0,3.6s		¶602553166
IDC	IV	11 16 19 21.2–.65	36.05N	141.96E	0	4.1,4.0		
ISCJB	IV	11 16 19 23.3–.47	36.12N–.04	141.85E–.07	23	4.1b,3.8s		
MOS	IV	11 16 19 23.7–.82	36.10N	141.84E	27	4.5b,3.8s		
NEIC	IV	11 16 19 30.9–.92	36.42N	141.61E	52–8	4.3b,3.8s		

ISC Event type se.
JMA Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=14.6km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=24.8.
MOS Error ellipse: s-maj=12.4km s-min=7.2km az=125.5.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=8.7km az=138.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu

JMA	**IV**	**11 16 23 52.5**	**36.98N**	**140.70E**	**11–1**	**3.8**		**¶602553099**

JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**IV**	**11 16 45 26.5–1.0**	**36.69N–.03**	**140.54E–.05**	**10–6**	**3.8b**	**38**	**0-83**
NIED	IV	11 16 45 00	36.70N	140.60E	5	3.8W		¶17200657
ISCJB	IV	11 16 45 25.8–.69	36.67N–.03	140.67E–.05	18–4	3.7b		
JMA	IV	11 16 45 26.5	36.70N	140.57E	4–1	3.7		
IDC	IV	11 16 45 31.6–2.0	36.64N	140.54E	50–20	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ27.00000°,λ-98.00000°. NP2:ϕ_s184.00000°,δ63.00000°,λ-86.00000°. $M_0$5.56000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.9km az=33.2.
JMA Event type fe.
IDC Error ellipse: s-maj=15.1km s-min=9.9km az=57.0.
(227) Eastern Honshu

ISC	**IV**	**11 16 49 17.6–1.1**	**37.10N–.04**	**140.55E–.05**	**8–7**	**4.2b,3.3s**	**103**	**0-152**
NIED	IV	11 16 49 00	37.10N	140.70E	5	4.1W,3.3s		¶602553103
JMA	IV	11 16 49 17.6	37.07N	140.61E	8–2	4.3,3.3s		
ISCJB	IV	11 16 49 17.3–.46	37.09N–.03	140.64E–.04	18–3	4.1b,3.5s		
MOS	IV	11 16 49 19.3–1.6	37.12N	140.72E	33	4.4b,3.5s		
NEIC	IV	11 16 49 22.7–.68	37.11N	140.44E	43–6	4.4b,3.5s		
IDC	IV	11 16 49 22.8–1.8	37.07N	140.40E	45–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ37.00000°,λ-90.00000°. NP2:ϕ_s248.00000°,δ53.00000°,λ-90.00000°. $M_0$1.63000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s272.00000°,δ49.00000°,λ-62.00000°. NP2:ϕ_s52.00000°,δ49.00000°,λ-118.00000°. Principal axes: T Plg0.0000°,Azm342.0000°; N Plg21.0000°,Azm72.0000°; P Plg69.0000°,Azm252.0000°
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.5km az=34.6.
MOS Error ellipse: s-maj=9.6km s-min=7.2km az=79.8.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.5km az=121.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=10.7km az=86.0.
(228) Near east coast of eastern Honshu

ISC	**IV**	**11 16 56 58.5–1.7**	**36.83N–.06**	**140.73E–.06**	**3–12**	**3.4b**	**18**	**0-61**
IDC	IV	11 16 56 57.3–2.0	36.80N	140.87E	0	3.5,3.4L		¶600583985
JMA	IV	11 16 56 59.7	36.88N	140.68E	9–1	3.4,3.4L		

ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=24.3km az=53.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**IV**	**11 17 05 33.2–1.1**	**36.94N–.04**	**140.62E–.06**	**6–10**	**3.4b**	**19**	**0-61**
NIED	IV	11 17 05 00	36.90N	140.70E	62	3.7W		¶17200659
IDC	IV	11 17 05 31.6–1.5	36.92N	140.82E	0	3.5,3.4		
JMA	IV	11 17 05 33.1	36.92N	140.71E	6–1	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ40.00000°,λ131.00000°. NP2:ϕ_s115.00000°,δ61.00000°,λ61.00000°. $M_0$3.54000×10^{14}
IDC Error ellipse: s-maj=37.5km s-min=21.5km az=62.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**IV**	**11 17 18 03.6–.49**	**37.00N–.04**	**140.62E–.05**	**10**	**4.0b**	**38**	**0-82**
NIED	IV	11 17 18 00	37.00N	140.70E	26	3.8W		¶16418142
ISCJB	IV	11 17 18 01.2–.45	37.04N–.04	140.83E–.06	10	4.0b		
JMA	IV	11 17 18 05.0	36.99N	140.63E	19–1	4.1		
IDC	IV	11 17 18 08.6–2.3	37.01N	140.50E	50–21	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ27.00000°,λ122.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ75.00000°. $M_0$6.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.9km az=30.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s34.00000°,δ67.00000°,λ81.00000°. NP2:ϕ_s236.00000°,δ25.00000°,λ111.00000°. Principal axes: T Plg67.0000°,Azm287.0000°; N Plg9.0000°,Azm38.0000°; P Plg21.0000°,Azm131.0000°
IDC Error ellipse: s-maj=16.3km s-min=12.0km az=90.0.
(227) Eastern Honshu

ISC	**IV**	**11 17 21 00.6–.39**	**37.05N–.05**	**140.60E–.05**	**10**	**4.4b,3.1s**	**113**	**0-147**
ISCJB	IV	11 17 20 59.0–.28	37.04N–.04	140.67E–.04	10	4.3b,3.2s		¶16436610
NIED	IV	11 17 21 00	37.00N	140.60E	5	4.1W,3.2s		
JMA	IV	11 17 21 00.5	37.00N	140.61E	9–1	4.3,3.2s		
MOS	IV	11 17 21 01.8–1.7	37.06N	140.64E	27	4.5b,3.2s		
NEIC	IV	11 17 21 05.8–1.0	37.00N	140.48E	48–8	4.5b,3.2s		
BJI	IV	11 17 21 06.0	37.10N	140.30E	44	4.8b,4.6s		
IDC	IV	11 17 21 06.0–2.0	36.94N	140.46E	51–18	4.2,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.7km az=141.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s274.00000°,δ43.00000°,λ-84.00000°. NP2:ϕ_s86.00000°,δ47.00000°,λ-95.00000°. $M_0$1.36000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s97.00000°,δ46.00000°,λ-97.00000°. NP2:ϕ_s287.00000°,δ44.00000°,λ-83.00000°. Principal axes: T Plg1.0000°,Azm192.0000°; N Plg5.0000°,Azm102.0000°; P Plg85.0000°,Azm293.0000°
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=96.1.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=6.9km az=120.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=100.0.
(228) Near east coast of eastern Honshu

JMA	**IV**	**11 17 43 54.5**	**36.92N**	**140.71E**	**6–1**	**2.8**		**¶600584032**

JMA Event type fe.
(229) Off east coast of Honshu

ISC	**IV**	**11 17 53 32.7–.49**	**37.69N–.03**	**144.54E–.03**	**17–2**	**5.6b,5.0s**	**1844**	**3-163**
NIED	IV	11 17 53 00	37.70N	144.40E	8	5.4W,5.0s		¶16417154
ISCJB	IV	11 17 53 29.5–.50	37.67N–.02	144.51E–.01	6–3	5.5b,5.0s		
IDC	IV	11 17 53 29.9–.27	37.62N	144.58E	0	5.2,5.2		
BJI	IV	11 17 53 31.4	37.81N	144.22E	7	5.4b,5.4s		
GCMT	IV	11 17 53 31.7–.10	37.70N	144.50E	15–0	5.5W,5.4s		
NEIC	IV	11 17 53 32.0–.08	37.64N	144.47E	12	5.7b,5.4W		
JMA	IV	11 17 53 33.3–.20	37.67N	144.41E	47	5.4,5.4W		
MOS	IV	11 17 53 33.8–.93	38.00N	144.47E	23	5.7b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ42.00000°,λ-82.00000°. NP2:ϕ_s45.00000°,δ49.00000°,λ-97.00000°. $M_0$1.27000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=165.4.
IDC Error ellipse: s-maj=10.1km s-min=7.3km az=85.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c214; s127,c308;Duration: 1τ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.03±.03 $M_{\theta\theta}$1.37±.02; $M_{\phi\phi}$0.66±.02; $M_{r\theta}$0.11±.03; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.47±.04; Best double couple: NP1:ϕ_s228.00000°,δ51.00000°,λ-101.00000°. NP2:ϕ_s65.00000°,δ41.00000°,λ-77.00000°. Principal axes: T 1.9320,Plg5.0000°,Azm326.0000°; N 0.1770,Plg8.0000°,Azm235.0000°; P -2.1080,Plg80.0000°,Azm88.0000° $M_0$2.02000×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.0km az=148.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.47 $M_{\theta\theta}$0.93 $M_{\phi\phi}$0.53 $M_{r\theta}$-0.11 $M_{\theta\phi}$1.06 $M_{\phi r}$-0.18 Best double couple: NP1:ϕ_s47.00000°,δ49.00000°,λ-95.00000°. NP2:ϕ_s234.00000°,δ42.00000°,λ-85.00000°. Principal axes: T 1.8300,Plg3.0000°,Azm140.0000°; N -0.3500,Plg3.0000°,Azm50.0000°; P -1.4800,Plg85.0000°,Azm275.0000° $M_0$1.70000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.6km s-min=3.3km az=106.9.
(227) Eastern Honshu

ISC	**IV**	**11 18 15 16.5–.99**	**37.13N–.04**	**140.71E–.05**	**6–6**	**3.7b**	**29**	**0-147**
NIED	IV	11 18 15 00	37.10N	140.80E	5	3.9W		¶16418143
ISCJB	IV	11 18 15 14.9–.99	37.15N–.04	140.97E–.06	5–5	3.6b,3.6s		
JMA	IV	11 18 15 17.2	37.14N	140.79E	6–1	4.3,3.6s		
IDC	IV	11 18 15 21.9–2.4	37.16N	140.63E	42–24	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ49.00000°,λ-158.00000°. NP2:ϕ_s63.00000°,δ73.00000°,λ-43.00000°. $M_0$7.86000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=13.3.
JMA Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=13.3km az=78.0.
(227) Eastern Honshu

ISC	**IV**	**11 18 27 08.8–.47**	**37.07N–.04**	**140.63E–.05**	**10**	**4.0b**	**39**	**0-147**
NIED	IV	11 18 27 00	37.10N	140.70E	5	4.0W		¶16505340
ISCJB	IV	11 18 27 07.3–.35	37.08N–.03	140.64E–.05	10	4.0b		
JMA	IV	11 18 27 08.4	37.07N	140.65E	7–1	4.3		
IDC	IV	11 18 27 14.8–2.1	37.04N	140.39E	54–20	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ50.00000°,λ-127.00000°. NP2:ϕ_s221.00000°,δ52.00000°,λ-55.00000°. $M_0$1.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.3km az=0.8.
JMA Event type fe.
IDC Error ellipse: s-maj=16.4km s-min=10.9km az=77.0.
(228) Near east coast of eastern Honshu

JMA	**IV**	**11 18 29 19.8**	**36.99N**	**140.61E**	**12–1**	**3.5**		**¶600584057**

JMA Event type fe.
(227) Eastern Honshu

ISC	**IV**	**11 18 38 47.8–1.3**	**37.05N–.03**	**140.54E–.05**	**1–11**	**3.6b**	**24**	**0-61**
IDC	IV	11 18 38 44.6–2.5	37.23N	140.96E	0	3.7,3.7		¶600584060
ISCJB	IV	11 18 38 47.8–.54	37.02N–.03	140.63E–.04	10–4	3.5b,3.7		
JMA	IV	11 18 38 48.0	37.01N	140.61E	9–1	3.4,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=53.4km s-min=26.7km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=7.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s34.00000°,δ63.00000°,λ-125.00000°. NP2:ϕ_s270.00000°,δ43.00000°,λ-42.00000°. Principal axes: T Plg11.0000°,Azm148.0000°; N Plg31.0000°,Azm51.0000°; P Plg57.0000°,Azm256.0000°
(227) Eastern Honshu

ISC	**IV**	**11 18 46 01.1–.97**	**37.04N–.04**	**140.59E–.06**	**11–9**	**3.7b**	**20**	**0-68**
IDC	IV	11 18 45 59.1–1.4	37.05N	140.76E	0	3.7,3.5		¶600584062
ISCJB	IV	11 18 46 00.9–.58	37.02N–.03	140.70E–.06	21–4	3.5b,3.5		
JMA	IV	11 18 46 01.5	37.03N	140.63E	10–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=25.5km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=9.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s315.00000°,δ47.00000°,λ-82.00000°. NP2:ϕ_s123.00000°,δ43.00000°,λ-98.00000°. Principal axes: T Plg2.0000°,Azm39.0000°; N Plg6.0000°,Azm129.0000°; P Plg84.0000° ,Azm292.0000°

(227) Eastern Honshu

JMA	**IV**	**11 18 50 05.5**	**37.01N**	**140.61E**	**10–1**	**3.1**		**¶600584064**

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 19 22 05.7–.94**	**37.03N–.04**	**140.67E–.08**	**12–8**	**3.5b**	**18**	**0-61**
IDC	IV	11 19 22 03.7–2.1	37.01N	140.85E	0	3.6,3.4b		**¶17200670**
ISCJB	IV	11 19 22 05.2–.78	37.01N–.03	140.81E–.08	19–5	3.3b,3.4b		
JMA	IV	11 19 22 06.0	37.02N	140.70E	11–1	3.0,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=43.7km s-min=26.8km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.4km az=6.3.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 19 43 47.7–1.2**	**37.10N–.04**	**140.54E–.05**	**6–8**	**3.8b,3.6s**	**47**	**0-147**
NIED	IV	11 19 43 00	37.10N	140.70E	5	4.0W,3.6s		**¶16418145**
ISCJB	IV	11 19 43 47.8–.46	37.07N–.03	140.69E–.04	19–3	3.9b,3.5s		
JMA	IV	11 19 43 48.0	37.08N	140.61E	9–1	3.8,3.5s		
IDC	IV	11 19 43 54.1–2.7	37.06N	140.34E	51–24	4.0L,3.9		
NEIC	IV	11 19 43 55.2–1.2	37.08N	140.33E	60–11	4.4b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ23.00000°,λ-95.00000°. NP2:ϕ_s152.00000°,δ67.00000°,λ-88.00000°. $M_0$1.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s313.00000°,δ62.00000°,λ-91.00000°. NP2:ϕ_s135.00000°,δ28.00000°,λ-88.00000°. Principal axes: T Plg17.0000°,Azm44.0000°; N Plg1.0000°,Azm314.0000°; P Plg73.0000° ,Azm221.0000°
IDC Error ellipse: s-maj=18.1km s-min=15.1km az=66.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=10.2km az=75.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**IV**	**11 19 46 00.6–.95**	**37.02N–.04**	**140.62E–.07**	**11–9**	**3.6b**	**21**	**0-61**
IDC	IV	11 19 45 58.7–2.1	37.03N	140.81E	0	3.7,3.5		**¶17200673**
ISCJB	IV	11 19 46 00.3–.65	37.00N–.03	140.75E–.06	17–5	3.5b,3.5		
JMA	IV	11 19 46 01.0	37.01N	140.64E	9–1	3.5,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=44.1km s-min=27.7km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=10.4.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 20 00 04.2–.90**	**37.06N–.03**	**140.68E–.04**	**10–6**	**3.5b**	**26**	**0-69**
NIED	IV	11 20 00 00	37.10N	140.70E	5	3.6W		**¶600584118**
IDC	IV	11 20 00 02.5–.95	37.05N	140.78E	0	3.8,3.6		
ISCJB	IV	11 20 00 03.5–.61	37.06N–.03	140.80E–.05	17–4	3.6b,3.6		
JMA	IV	11 20 00 04.2	37.07N	140.68E	10–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ16.00000°,λ-153.00000°. NP2:ϕ_s214.00000°,δ83.00000°,λ-76.00000°. $M_0$3.24000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=18.5km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=16.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ58.00000°,λ-91.00000°. NP2:ϕ_s28.00000°,δ32.00000°,λ-88.00000°. Principal axes: T Plg13.0000°,Azm297.0000°; N Plg1.0000°,Azm207.0000°; P Plg77.0000° ,Azm113.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 20 03 43.4–.95**	**36.95N–.03**	**140.69E–.04**	**9–5**	**4.2b,3.5s**	**131**	**0-152**
NIED	IV	11 20 03 00	36.90N	140.70E	5	4.2W,3.5s		**¶602553141**
BJI	IV	11 20 03 37.8	36.37N	140.89E	10	4.9b,4.4b		
IDC	IV	11 20 03 42.2–.43	36.95N	140.59E	0	4.3,4.3		
ISCJB	IV	11 20 03 42.9–.50	36.94N–.02	140.76E–.04	18–3	4.2b,3.5s		
JMA	IV	11 20 03 43.4	36.94N	140.67E	6–1	4.4,3.5s		
MOS	IV	11 20 03 46.3–1.3	37.04N	140.68E	42	4.4b,3.5s		
NEIC	IV	11 20 03 47.7–.81	36.99N	140.58E	37–7	4.5b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ39.00000°,λ-89.00000°. NP2:ϕ_s222.00000°,δ51.00000°,λ-91.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=12.3km s-min=10.9km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.5km az=28.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s232.00000°,δ54.00000°,λ-85.00000°. NP2:ϕ_s43.00000°,δ36.00000°,λ-97.00000°. Principal axes: T Plg9.0000°,Azm318.0000°; N Plg4.0000°,Azm49.0000°; P Plg80.0000° ,Azm162.0000°
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=91.8.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=127.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 20 11 26.4–1.1**	**36.89N–.04**	**140.60E–.05**	**15–10**		**17**	**0-2**
ISCJB	IV	11 20 11 27.3–.82	36.91N–.03	140.68E–.06	8–5			**¶600584124**
JMA	IV	11 20 11 27.5	36.91N	140.65E	6–1	3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.2km az=23.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 20 27 21.6–.88**	**36.97N–.03**	**140.61E–.04**	**16–5**	**3.8b**	**40**	**0-147**
NIED	IV	11 20 27 00	37.00N	140.60E	8	3.8W		**¶602553140**
ISCJB	IV	11 20 27 21.0–.49	36.95N–.03	140.71E–.05	22–3	3.8b		
JMA	IV	11 20 27 21.8	36.97N	140.60E	10–1	3.9		
IDC	IV	11 20 27 26.6–2.2	36.91N	140.63E	57–20	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ41.00000°,λ-105.00000°. NP2:ϕ_s153.00000°,δ50.00000°,λ-77.00000°. $M_0$5.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=18.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s302.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s149.00000°,δ46.00000°,λ-70.00000°. Principal axes: T Plg1.0000°,Azm45.0000°; N Plg14.0000°,Azm315.0000°; P Plg76.0000° ,Azm139.0000°
IDC Error ellipse: s-maj=15.7km s-min=12.8km az=93.0.

(227) Eastern Honshu

JMA	**IV**	**11 20 30 08.7**	**37.02N**	**140.62E**	**9–1**	**3.4**		**¶600584150**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 20 31 29.5–1.5**	**36.85N–.05**	**140.99E–.10**	**33–5**		**19**	**0-61**
JMA	IV	11 20 31 32.7	36.91N	140.72E	6–1	3.6		**¶17200680**
IDC	IV	11 20 31 33.0–7.5	36.74N	141.00E	74–74	3.9,3.9		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=85.7km s-min=60.8km az=165.0.

(227) Eastern Honshu

ISC	**IV**	**11 20 42 59.9–1.0**	**37.01N–.03**	**140.63E–.05**	**9–7**	**3.5b**	**26**	**0-69**
NIED	IV	11 20 42 00	37.00N	140.60E	5	3.7W		**¶600584160**
IDC	IV	11 20 42 58.2–.90	37.00N	140.67E	0	3.8,3.7		
ISCJB	IV	11 20 42 59.2–.62	37.01N–.03	140.74E–.05	18–4	3.6b,3.7		
JMA	IV	11 20 42 59.7	37.02N	140.63E	8–2	3.6,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ36.00000°,λ-89.00000°. NP2:ϕ_s248.00000°,δ54.00000°,λ-90.00000°. $M_0$3.83000×10^{14}
IDC Error ellipse: s-maj=21.3km s-min=18.6km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=21.2.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 20 46 41.6–.92**	**37.09N–.04**	**140.71E–.05**	**11–7**	**3.4b**	**19**	**0-57**
IDC	IV	11 20 46 39.8–1.9	37.07N	140.78E	0	3.6,3.4b		**¶17200684**
JMA	IV	11 20 46 41.8	37.10N	140.70E	9–1	3.3,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=29.1km az=55.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 20 55 10.3–1.0**	**37.00N–.05**	**140.71E–.04**	**9–8**	**3.6b**	**24**	**0-61**
NIED	IV	11 20 55 00	37.00N	140.70E	5	3.5W		**¶17200687**
IDC	IV	11 20 55 08.2–1.8	37.05N	140.84E	0	3.9,3.7		
ISCJB	IV	11 20 55 09.5–.68	37.02N–.03	140.81E–.06	17–4	3.7b,3.7		
JMA	IV	11 20 55 10.5	37.04N	140.69E	11–1	3.6,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ29.00000°,λ-145.00000°. NP2:ϕ_s186.00000°,δ74.00000°,λ-66.00000°. $M_0$1.76000×10^{14}
IDC Error ellipse: s-maj=40.2km s-min=23.1km az=52.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.9km az=6.8.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 21 01 28.2–1.1**	**37.10N–.05**	**140.61E–.05**	**6–10**	**3.3b**	**22**	**0-61**
IDC	IV	11 21 01 27.3–1.2	36.85N	140.71E	0	3.7,3.5b		**¶600584174**
ISCJB	IV	11 21 01 28.3–.56	37.07N–.03	140.69E–.06	11–5	3.4s,3.4b		
JMA	IV	11 21 01 28.5	37.08N	140.65E	7–1	3.3,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=24.1km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=9.6.
JMA Event type fe.

(135) Near coast of central Chile

ISC	**IV**	**11 21 03 06.6–.89**	**36.26S–.05**	**73.83W–.10**	**35**	**4.1b**	**30**	**1-91**
ISCJB	IV	11 21 03 04.4–.71	36.21S–.05	73.90W–.07	33	4.3b,3.3s		**¶16427672**
NEIC	IV	11 21 03 05.0	36.22S	73.79W	20	4.2b,4.0L		
GUC	IV	11 21 03 05.2–.54	36.22S	73.79W	20–16	4.0L,4.0L		
IDC	IV	11 21 03 09.1–1.6	36.01S	72.29W	0	4.0,3.9b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=163.1.
NEIC Event type fe. Felt [III] at San Pedro de la Paz and [II] at Concepcion. After GUC.
GUC Error ellipse: s-maj=2.8km s-min=12.2km az=-1.0.
IDC Error ellipse: s-maj=50.1km s-min=20.0km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 21 03 36.9–.48**	**38.40N–.05**	**141.94E–.04**	**55–4**	**4.3b,3.5s**	**179**	**0-146**
BJI	IV	11 21 02 58.7	36.40N	145.80E	10	4.9b,4.6b		**¶16418150**
NIED	IV	11 21 03 00	38.40N	141.80E	53	4.2W,4.6b		
MOS	IV	11 21 03 35.4–1.2	38.43N	141.93E	57	4.4b,4.6b		
ISCJB	IV	11 21 03 36.0–.46	38.41N–.03	141.88E–.05	61–3	4.3b,4.6b		
JMA	IV	11 21 03 37.2–.10	38.43N	141.82E	54–1	4.1,4.6b		
IDC	IV	11 21 03 37.3–.49	38.38N	141.88E	58–4	4.1,4.0		
NEIC	IV	11 21 03 38.8–.67	38.38N	141.81E	72–6	4.7b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ39.00000°,λ66.00000°. NP2:ϕ_s40.00000°,δ55.00000°,λ108.00000°. $M_0$2.06000×10^{15}
MOS Error ellipse: s-maj=8.9km s-min=5.9km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=35.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.2km s-min=10.9km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=129.0. Recorded [3 JMA] in Iwate.

(227) Eastern Honshu

ISC	**IV**	**11 21 18 21.6–.93**	**37.08N–.04**	**140.69E–.05**	**7–6**	**3.6b**	**31**	**0-78**
NIED	IV	11 21 18 00	37.10N	140.70E	5	3.8W		**¶17200690**
IDC	IV	11 21 18 20.0–.79	37.02N	140.82E	0	3.8,3.7		
JMA	IV	11 21 18 21.7	37.05N	140.74E	10–1	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ66.00000°,λ-173.00000°. NP2:ϕ_s93.00000°,δ84.00000°,λ-24.00000°. $M_0$5.23000×10^{14}
IDC Error ellipse: s-maj=20.9km s-min=17.7km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s89.00000°,δ71.00000°,λ-24.00000°. NP2:ϕ_s188.00000°,δ68.00000°,λ-159.00000°. Principal axes: T Plg2.0000°,Azm139.0000°; N Plg60.0000°,Azm232.0000°; P Plg30.0000° ,Azm48.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 21 21 19.1–.50**	**38.88N–.05**	**141.93E–.06**	**51**	**4.5b,3.5s**	**159**	**0-145**
NIED	IV	11 21 21 00	38.90N	142.00E	53	4.3W,3.5s		**¶16427673**
IDC	IV	11 21 21 12.0–.70	38.86N	141.90E	0	4.2,4.2b		
MOS	IV	11 21 21 15.0–1.0	38.89N	141.82E	29	4.6b,4.2b		
ISCJB	IV	11 21 21 16.8–.35	38.88N–.04	142.06E–.05	51	4.4b,3.5s		
NEIC	IV	11 21 21 17.0–2.0	38.78N	141.86E	34–14	4.7b,3.5s		
BJI	IV	11 21 21 17.0	38.76N	142.03E	64	4.9b,4.6b		
JMA	IV	11 21 21 18.7–.10	38.89N	141.98E	51–2	4.2,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ101.00000°. $M_0$2.86000×10^{15}
IDC Error ellipse: s-maj=19.3km s-min=14.7km az=112.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=99.1.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.8km az=136.3.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.7km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 21 29 27.9–.95**	**36.89N–.03**	**140.69E–.05**	**14–7**	**3.3b**	**25**	**0-61**
NIED	IV	11 21 29 00	36.90N	140.70E	8	3.4W		**¶17200692**
IDC	IV	11 21 29 25.4–1.6	36.82N	140.84E	0	3.7L,3.6		
ISCJB	IV	11 21 29 27.1–.72	36.87N–.03	140.79E–.06	17–5	3.2b,3.6		
JMA	IV	11 21 29 28.0	36.90N	140.68E	9–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ32.00000°,λ-105.00000°. NP2:ϕ_s185.00000°,δ60.00000°,λ-81.00000°. $M_0$1.59000×10^{14}
IDC Error ellipse: s-maj=40.4km s-min=21.3km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.7km az=14.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ55.00000°,λ-102.00000°. NP2:ϕ_s19.00000°,δ37.00000°,λ-74.00000°. Principal axes: T Plg9.0000°,Azm278.0000°; N Plg10.0000°,Azm186.0000°; P Plg77.0000° ,Azm50.0000°

(227) Eastern Honshu

ISC	**IV**	**11 22 03 17.7–.89**	**37.02N–.03**	**140.54E–.04**	**13–5**	**4.4b,3.2s**	**136**	**0-147**
NIED	IV	11 22 03 00	37.00N	140.70E	5	4.2W,3.2s		**¶602553115**
BJI	IV	11 22 03 17.8	36.81N	140.39E	29	4.7b,4.5b		
ISCJB	IV	11 22 03 17.1–.42	37.02N–.02	140.62E–.04	21–2	4.4b,3.4s		
JMA	IV	11 22 03 17.2	37.01N	140.61E	9–1	4.3,3.4s		
MOS	IV	11 22 03 18.4–1.0	36.99N	140.54E	31	4.5b,3.4s		
NEIC	IV	11 22 03 23.0–.69	36.98N	140.40E	54–6	4.5b,3.4s		
IDC	IV	11 22 03 23.1–1.6	36.99N	140.43E	54–15	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ31.00000°,λ-113.00000°. NP2:ϕ_s271.00000°,δ62.00000°,λ-77.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=14.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s283.00000°,δ67.00000°,λ-71.00000°. NP2:ϕ_s62.00000°,δ29.00000°,λ-128.00000°. Principal axes: T Plg20.0000°,Azm359.0000°; N Plg18.0000°,Azm96.0000°; P Plg63.0000° ,Azm224.0000°
MOS Error ellipse: s-maj=9.9km s-min=6.1km az=111.1.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=86.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.2km s-min=8.7km az=81.0.

(227) Eastern Honshu

ISC	**IV**	**11 22 15 12.5–.00**	**37.02N–.05**	**140.64E–.06**	**8–8**	**3.5b**	**20**	**0-91**
NIED	IV	11 22 15 00	37.00N	140.70E	5	3.4W		**¶600584214**
IDC	IV	11 22 15 11.2–.94	37.02N	140.72E	0	3.6,3.5		
ISCJB	IV	11 22 15 12.0–.69	37.00N–.03	140.79E–.06	15–5	3.4b,3.5		
JMA	IV	11 22 15 12.8	37.00N	140.69E	7–2	3.5,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ37.00000°,λ-80.00000°. NP2:ϕ_s225.00000°,δ54.00000°,λ-97.00000°. $M_0$1.39000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=21.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.6km az=10.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s51.00000°,δ62.00000°,λ-93.00000°. NP2:ϕ_s237.00000°,δ28.00000°,λ-84.00000°.

Principal axes: T Plg17.0000°,Azm143.0000°; N Plg3.0000°,Azm52.0000°; P Plg73.0000°,Azm313.0000°

(227) Eastern Honshu

JMA	**IV**	**11 22 16 27.4**	**37.03N**	**140.61E**	**9–1**	**3.5**		**¶600584216**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 22 22 45.7–1.8**	**36.93N–.09**	**140.7E–.10**	**10**		**9**	**0-57**
IDC	IV	11 22 22 44.8–2.3	36.94N	140.73E	0	3.5,3.3		**¶600584225**
JMA	IV	11 22 22 47.5	36.97N	140.71E	10–1	3.9,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=21.0km az=2.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 22 26 18.3–.32**	**36.82N–.02**	**138.55E–.02**	**10–1**	**5.4s,5.0b**	**885**	**0-158**
NIED	IV	11 22 26 00	36.80N	138.60E	8	5.4W,5.0b		**¶16418156**
IDC	IV	11 22 26 16.6–.39	36.88N	138.48E	0	5.1,5.1s		
JMA	IV	11 22 26 16.8	36.82N	138.61E	0	5.6,5.1s		
ISCJB	IV	11 22 26 17.4–.44	36.87N–.02	138.41E–.02	8–2	5.4s,4.9b		
BJI	IV	11 22 26 18.7	36.90N	138.30E	6	5.5s,5.3		
MOS	IV	11 22 26 19.3–1.1	36.79N	138.33E	25	5.4s,5.1b		
GCMT	IV	11 22 26 20.0–.10	36.74N	138.56E	12	5.5W,5.1b		
NEIC	IV	11 22 26 20.0–.93	36.81N	138.28E	17–5	5.1b,5.1b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ85.00000°,λ-2.00000°. NP2:ϕ_s105.00000°,δ88.00000°,λ-175.00000°. $M_0$1.42000×10^{17}
IDC Error ellipse: s-maj=13.7km s-min=5.7km az=111.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s109.00000°,δ89.00000°,λ-176.00000°. NP2:ϕ_s19.00000°,δ86.00000°,λ-1.00000°. Principal axes: T Plg2.0000°,Azm244.0000°; N Plg86.0000°,Azm127.0000°; P Plg4.0000°,Azm334.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=152.8.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=96.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c175; s126,c246; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.42±.02 $M_{\theta\theta}$-0.71±.02; $M_{\phi\phi}$1.14±.02; $M_{r\theta}$-0.60±.05; $M_{\theta\phi}$-1.46±.02; $M_{\phi r}$-0.07±.05; Best double couple: NP1:ϕ_s109.00000°,δ78.00000°,λ-159.00000°. NP2:ϕ_s14.00000°,δ70.00000°,λ-13.00000°. Principal axes: T 1.9650,Plg6.0000°,Azm240.0000°; N -0.2110,Plg66.0000°,Azm137.0000°; P -1.7520,Plg23.0000°,Azm333.0000° $M_0$1.85900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=147.0. Felt at Nakano. Recorded [5L JMA] in Nagano.

(227) Eastern Honshu

JMA	**IV**	**11 22 27 28.9**	**36.84N**	**138.59E**	**5–3**	**3.8**		**¶600584229**

JMA Event type fe.

(227) Eastern Honshu

JMA	**IV**	**11 22 28 33.0**	**36.84N**	**138.56E**	**5–2**	**3.6**		**¶600584235**

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**11 22 32 52.2–1.1**	**36.82N–.03**	**138.57E–.03**	**8–7**	**4.4b**	**58**	**0-149**
NIED	IV	11 22 32 00	36.80N	138.60E	5	4.6W		**¶16505341**
ISCJB	IV	11 22 32 51.1–.47	36.83N–.02	138.55E–.03	10–3	4.1b		
JMA	IV	11 22 32 51.4	36.83N	138.58E	0	4.7		
IDC	IV	11 22 32 51.1–.54	36.86N	138.53E	0	4.3,4.2		
NEIC	IV	11 22 32 55.9–.29	36.72N	138.49E	35	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ61.00000°,λ-170.00000°. NP2:ϕ_s199.00000°,δ81.00000°,λ-30.00000°. $M_0$8.78000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=38.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s26.00000°,δ80.00000°,λ20.00000°. NP2:ϕ_s293.00000°,δ70.00000°,λ170.00000°. Principal axes: T Plg21.0000°,Azm251.0000°; N Plg68.0000°,Azm51.0000°; P Plg7.0000°,Azm158.0000°
IDC Error ellipse: s-maj=16.8km s-min=6.2km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=6.4km az=131.0. Recorded [3 JMA] in Gumma, Nagano and Niigata.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 22 44 12.6–1.5**	**38.85N–.05**	**142.1E–.10**	**42–12**	**4.0b**	**35**	**0-89**
ISCJB	IV	11 22 44 11.8–.89	38.85N–.05	142.1E–.10	51–6	4.0b		**¶17200699**
JMA	IV	11 22 44 12.4–.10	38.85N	142.09E	45–1	4.3		
IDC	IV	11 22 44 17.1–2.7	38.80N	142.01E	86–24	4.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=7.0km az=17.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=15.6km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 22 45 29.9–1.1**	**38.55N–.05**	**142.14E–.05**	**34–3**	**4.5b**	**106**	**1-145**
NIED	IV	11 22 45 00	38.60N	141.90E	50	4.3W		**¶16455929**
MOS	IV	11 22 45 28.8–1.2	38.65N	141.98E	33	4.6b		
JMA	IV	11 22 45 32.3–.10	38.62N	141.90E	48–1	4.2		
IDC	IV	11 22 45 33.7–2.5	38.59N	141.83E	62–21	4.3,4.1		
NEIC	IV	11 22 45 34.0–.88	38.61N	141.86E	66–7	4.7b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ30.00000°,λ59.00000°. NP2:ϕ_s21.00000°,δ65.00000°,λ107.00000°. $M_0$3.70000×10^{15}
MOS Error ellipse: s-maj=9.8km s-min=7.0km az=112.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=12.3km az=120.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=115.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 23 02 01.1–1.0**	**36.97N–.03**	**140.80E–.05**	**11–6**	**3.7b**	**33**	**0-83**
ISCJB	IV	11 23 01 59.4–.86	36.96N–.03	140.97E–.05	12–4	3.7b		**¶16418158**
IDC	IV	11 23 01 59.2–.87	36.97N	140.88E	0	3.9,3.7		
JMA	IV	11 23 02 01.2	36.97N	140.81E	10–1	3.9,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.1km az=16.6.
IDC Error ellipse: s-maj=23.6km s-min=18.9km az=86.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s30.00000°,δ47.00000°,λ-95.00000°. NP2:ϕ_s217.00000°,δ43.00000°,λ-85.00000°. Principal axes: T Plg2.0000°,Azm123.0000°; N Plg4.0000°,Azm33.0000°; P Plg86.0000°,Azm240.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 23 03 13.6–1.2**	**36.93N–.05**	**140.70E–.06**	**8–11**	**3.6b**	**18**	**0-57**
IDC	IV	11 23 03 12.7–1.7	36.87N	140.75E	0	3.6,3.4		**¶17200700**
ISCJB	IV	11 23 03 13.8–.77	36.95N–.03	140.77E–.07	15–6	3.4b,3.4		
JMA	IV	11 23 03 14.3	36.97N	140.70E	11–1	4.0,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=20.3km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.0km az=12.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 23 08 17.1–.30**	**35.44N–.02**	**140.70E–.02**	**17–1**	**6.2s,6.0b**	**2173**	**0-162**
NIED	IV	11 23 08 00	35.40N	141.00E	26	6.3W,6.0b		**¶602546097**
BJI	IV	11 23 08 12.6	35.35N	140.70E	5	6.6,6.6s		
IDC	IV	11 23 08 14.0–.33	35.45N	140.76E	0	6.2,6.2		
ISCJB	IV	11 23 08 14.8–.41	35.37N–.01	140.79E–.01	13–2	6.3s,5.9b		
JMA	IV	11 23 08 15.8–.10	35.48N	140.87E	26–1	6.4,5.9b		
NEIC	IV	11 23 08 16.0–.00	35.21N	140.14E	15	6.4,5.9b		
NEIC	IV	11 23 08 16.9–.11	35.42N	140.58E	15	6.6,6.2W		
GCMT	IV	11 23 08 16.9–.10	35.42N	140.85E	16–0	6.2W,6.2W		
MOS	IV	11 23 08 18.4–1.1	35.87N	140.70E	23	6.3s,6.1b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ72.00000°,λ13.00000°. NP2:ϕ_s304.00000°,δ77.00000°,λ162.00000°. $M_0$2.99000×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=165.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.48 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$2.14 $M_{r\theta}$-1.61 $M_{\theta\phi}$-1.16 $M_{\phi r}$0.54 Best double couple: NP1:ϕ_s122.00000°,δ81.00000°,λ-142.00000°. NP2:ϕ_s26.00000°,δ53.00000°,λ-10.00000°. Principal axes: T 2.7900,Plg18.0000°,Azm248.0000°; N 0.0900,Plg51.0000°,Azm133.0000°; P -2.8700,Plg32.0000°,Azm350.0000° $M_0$2.80000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=142.0. Felt [IV] at Narita, Tokyo and Yokosuka. Felt widely in southeastern Honshu. Recorded [5L JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.02 $M_{\theta\theta}$-1.76 $M_{\phi\phi}$1.79 $M_{r\theta}$-1.08 $M_{\theta\phi}$-0.81 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s30.00000°,δ69.00000°,λ-14.00000°. NP2:ϕ_s125.00000°,δ77.00000°,λ-159.00000°. Principal axes: T 1.9800,Plg5.0000°,Azm256.0000°; N 0.4400,Plg65.0000°,Azm155.0000°; P -2.4200,Plg24.0000°,Azm349.0000° $M_0$2.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s129.00000°,δ81.00000°,λ-155.00000°. NP2:ϕ_s35.00000°,δ65.00000°,λ-10.00000°. Principal axes: T Plg11.0000°,Azm260.0000°; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm355.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c244; s130,c456;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.27±.01 $M_{\theta\theta}$-1.88±.01; $M_{\phi\phi}$2.15±.01; $M_{r\theta}$-1.71±.06; $M_{\theta\phi}$-0.48±.01; $M_{\phi r}$0.16±.04; Best double couple: NP1:ϕ_s131.00000°,δ76.00000°,λ-149.00000°. NP2:ϕ_s33.00000°,δ60.00000°,λ-16.00000°. Principal axes: T 2.2750,Plg11.0000°,Azm259.0000°; N 0.7090,Plg56.0000°,Azm153.0000°; P -2.9860,Plg32.0000°,Azm356.0000° $M_0$2.63100×10^{18}
MOS Error ellipse: s-maj=5.4km s-min=3.3km az=109.7.

(228) Near east coast of eastern Honshu

JMA	**IV**	**11 23 15 46.2–.20**	**35.44N**	**140.90E**	**20–2**	**3.6**		**¶600584313**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**11 23 22 33.8–1.1**	**37.01N–.04**	**140.62E–.04**	**8–7**	**3.8b**	**33**	**0-147**
IDC	IV	11 23 22 32.7–.71	37.00N	140.67E	0	4.2,3.9		**¶16587470**
ISCJB	IV	11 23 22 34.0–.60	37.01N–.04	140.77E–.05	20–3	3.9b,3.9		
JMA	IV	11 23 22 34.8	37.03N	140.69E	11–1	3.9,3.9		
NEIC	IV	11 23 22 37.8–.43	36.95N	140.55E	35	4.3b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=13.2km az=161.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=26.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s38.00000°,δ48.00000°,λ-98.00000°. NP2:ϕ_s231.00000°,δ42.00000°,λ-81.00000°. Principal axes: T Plg3.0000°,Azm134.0000°; N Plg6.0000°,Azm44.0000°; P Plg83.0000°,Azm250.0000°
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.7km az=162.0.

(227) Eastern Honshu

ISC	**IV**	**11 23 24 22.1–1.1**	**36.80N–.03**	**138.60E–.03**	**6–8**	**3.9b**	**39**	**0-92**
IDC	IV	11 23 24 20.6–.82	36.70N	138.72E	0	4.1,3.9		**¶16418160**
ISCJB	IV	11 23 24 21.1–.49	36.81N–.03	138.59E–.03	8–4	3.8b,3.9		
JMA	IV	11 23 24 21.2	36.82N	138.61E	0	3.9,3.9		
NEIC	IV	11 23 24 25.4–.63	36.58N	138.48E	35	4.5b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=22.8km s-min=6.9km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=135.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s13.00000°,δ89.00000°,λ25.00000°. NP2:ϕ_s283.00000°,δ65.00000°,λ179.00000°. Principal axes: T Plg18.0000°,Azm241.0000°; N Plg65.0000°,Azm15.0000°; P Plg17.0000°,Azm145.0000°
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=13.6km az=145.0.

(227) Eastern Honshu

ISC	**IV**	**11 23 29 51.9–.94**	**37.03N–.04**	**140.69E–.06**	**10–7**	**3.6b**	**18**	**0-61**
IDC	IV	11 23 29 48.8–1.9	37.07N	141.18E	0	3.8,3.6		**¶600584315**
ISCJB	IV	11 23 29 51.5–2.3	36.99N–.04	140.90E–.09	15–16	3.6b,3.6		
JMA	IV	11 23 29 51.9	37.04N	140.69E	11–1	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=22.1km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.6km az=10.1.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 23 44 01.1–.99**	**35.53N–.05**	**140.79E–.10**	**33**	**3.5b**	**12**	**0-59**
IDC	IV	11 23 43 58.0–1.1	35.68N	141.04E	0	3.7,3.6b		**¶600584347**
ISCJB	IV	11 23 43 59.4–.96	35.48N–.05	141.0E–.10	33	3.5b,3.6b		
JMA	IV	11 23 43 59.4–.10	35.47N	140.92E	21–2	3.7,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=22.5km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=7.0km az=177.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**11 23 46 39.9–.90**	**35.47N–.04**	**140.86E–.07**	**33**	**3.5b**	**17**	**0-60**
IDC	IV	11 23 46 36.3–1.2	35.33N	141.20E	0	3.9,3.7b		**¶17200708**
ISCJB	IV	11 23 46 38.3–.69	35.44N–.04	140.91E–.07	33	3.6b,3.7b		
JMA	IV	11 23 46 38.0–.10	35.45N	140.91E	23–1	3.9,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=27.2km az=39.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=0.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**11 23 48 14.1–.98**	**37.00N–.03**	**140.61E–.03**	**8–6**	**4.6b**	**165**	**0-153**
JMA	IV	11 23 48 14.7	37.03N	140.69E	11–1	4.7		**¶16418162**
ISCJB	IV	11 23 48 14.3–.42	37.01N–.02	140.71E–.04	22–2	5.3s,4.5b		
BJI	IV	11 23 48 17.0	37.20N	140.40E	10	5.4b,5.1s		
MOS	IV	11 23 48 17.1–1.2	36.98N	140.68E	44	4.7b,5.1s		
NEIC	IV	11 23 48 19.3–1.0	37.00N	140.52E	47–8	4.8b,5.1s		
IDC	IV	11 23 48 20.7–1.6	36.98N	140.63E	59–14	4.5,4.3		

ISC Event type se.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s74.00000°,δ50.00000°,λ-100.00000°. NP2:ϕ_s269.00000°,δ41.00000°,λ-78.00000°. Principal axes: T Plg5.0000°,Azm171.0000°; N Plg8.0000°,Azm80.0000°; P Plg81.0000°,Azm293.0000°
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=24.4.
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=110.9.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.9km az=92.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=77.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**11 23 59 08.6**	**36.93N**	**140.66E**	**7–1**	**3.5**		**¶600584365**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ68.00000°,λ-102.00000°. NP2:ϕ_s205.00000°,δ25.00000°,λ-62.00000°. Principal axes: T Plg22.0000°,Azm94.0000°; N Plg11.0000°,Azm359.0000°; P Plg65.0000°,Azm244.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 00 04 48.1–.68**	**36.98N–.04**	**140.58E–.05**	**10**	**3.7b**	**18**	**0-147**
ISCJB	IV	12 00 04 47.4–.55	36.96N–.04	140.63E–.05	10	3.6b		**¶17200709**
JMA	IV	12 00 04 47.7	36.98N	140.61E	10–1	3.9		
IDC	IV	12 00 04 56.4–3.0	36.84N	140.14E	72–26	3.7,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=40.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s62.00000°,δ51.00000°,λ-117.00000°. NP2:ϕ_s281.00000°,δ47.00000°,λ-61.00000°. Principal axes: T Plg2.0000°,Azm171.0000°; N Plg21.0000°,Azm80.0000°; P Plg69.0000°,Azm267.0000°
IDC Error ellipse: s-maj=30.0km s-min=19.4km az=85.0.

(227) Eastern Honshu

JMA	**IV**	**12 00 07 17.9**	**37.00N**	**140.67E**	**9–1**	**3.5**		**¶600584375**

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**12 00 09 28.4–.98**	**37.07N–.03**	**140.59E–.04**	**7–6**	**4.3b**	**106**	**0-152**
BJI	IV	12 00 09 24.4	36.25N	140.75E	20	4.6s,4.5		**¶16418163**
JMA	IV	12 00 09 28.8	37.03N	140.69E	11–1	4.2,4.5		
ISCJB	IV	12 00 09 28.4–.45	37.03N–.02	140.74E–.04	20–2	4.3b,4.5		
NEIC	IV	12 00 09 28.2–1.6	37.00N	140.48E	8–9	4.5b,4.5		
MOS	IV	12 00 09 30.1–1.2	37.03N	140.66E	32	4.5b,4.5		
IDC	IV	12 00 09 30.0–3.3	37.04N	140.54E	17–20	4.3,4.2		

ISC Event type se.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s53.00000°,δ48.00000°,λ-76.00000°. NP2:ϕ_s212.00000°,δ44.00000°,λ-106.00000°. Principal axes: T Plg2.0000°,Azm133.0000°; N Plg11.0000°,Azm223.0000°; P Plg79.0000°

,Azm30.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=15.3.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.6km az=74.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=11.5km s-min=7.6km az=103.7.
IDC Error ellipse: s-maj=16.6km s-min=12.9km az=85.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 00 12 11.1–.10**	**35.47N**	**140.97E**	**21–2**	**3.5**		**¶600584379**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 00 14 26.6–.97**	**35.51N–.04**	**140.87E–.09**	**33**	**3.3b**	**12**	**0-65**
IDC	IV	12 00 14 22.9–1.2	35.26N	141.34E	0	3.7,3.4		**¶17200710**
ISCJB	IV	12 00 14 25.0–.78	35.50N–.05	140.9E–.10	33	3.4b,3.4		
JMA	IV	12 00 14 25.2–.10	35.49N	140.91E	23–1	3.6,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=27.5km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=7.4km az=169.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 00 20 09.8–1.0**	**35.43N–.05**	**140.97E–.09**	**33**	**3.6b**	**16**	**0-76**
IDC	IV	12 00 20 02.9–1.8	35.42N	141.69E	0	3.7,3.6L		**¶17200711**
ISCJB	IV	12 00 20 08.5–1.1	35.41N–.05	141.1E–.10	33	3.5b,3.6L		
JMA	IV	12 00 20 09.6–.10	35.42N	140.99E	23–2	3.9,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=60.7km s-min=26.9km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=7.2km az=171.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**IV**	**12 00 21 47.5**	**37.11N**	**140.78E**	**9–1**	**3.6**		**¶600584386**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 00 46 43.6–.94**	**36.98N–.03**	**140.75E–.05**	**12–5**	**3.8b**	**34**	**0-147**
ISCJB	IV	12 00 46 42.6–.79	36.97N–.03	140.89E–.07	18–4	3.8b		**¶602557241**
JMA	IV	12 00 46 43.7	36.98N	140.76E	11–1	4.1		
IDC	IV	12 00 46 44.1–4.2	36.95N	140.63E	14–25	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.0km az=14.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s106.00000°,δ48.00000°,λ-71.00000°. NP2:ϕ_s259.00000°,δ45.00000°,λ-110.00000°. Principal axes: T Plg2.0000°,Azm183.0000°; N Plg14.0000°,Azm273.0000°; P Plg76.0000°,Azm86.0000°
IDC Error ellipse: s-maj=22.3km s-min=17.3km az=95.0.

(227) Eastern Honshu

ISC	**IV**	**12 00 49 50.9–1.3**	**36.96N–.05**	**140.59E–.05**	**5–10**	**3.7b**	**21**	**0-69**
IDC	IV	12 00 49 50.0–.87	36.92N	140.63E	0	3.8,3.6		**¶17200712**
ISCJB	IV	12 00 49 51.1–.54	37.00N–.03	140.68E–.06	18–4	3.6b,3.6		
JMA	IV	12 00 49 51.4	37.02N	140.61E	10–1	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=13.4km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.4km az=17.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 00 53 49.0–.10**	**37.41N**	**141.36E**	**27–1**	**3.5**		**¶600584426**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 01 23 50.3–.47**	**35.45N–.03**	**140.97E–.06**	**10**	**4.2b**	**53**	**0-148**
NIED	IV	12 01 23 00	35.40N	141.00E	23	4.2W		**¶600584479**
ISCJB	IV	12 01 23 47.9–.38	35.41N–.03	141.12E–.06	10	4.2b		
JMA	IV	12 01 23 50.8–.10	35.47N	140.86E	24–1	4.2		
NEIC	IV	12 01 23 53.3–.35	35.31N	140.92E	35	4.5b		
IDC	IV	12 01 23 55.1–1.9	35.33N	140.91E	50–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ11.00000°,λ-83.00000°. NP2:ϕ_s77.00000°,δ79.00000°,λ-91.00000°. $M_0$2.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=170.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=7.6km az=61.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=17.7km s-min=11.0km az=86.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 01 33 11.1–.43**	**37.31N–.04**	**141.44E–.05**	**50–3**	**4.5b**	**186**	**1-147**
NIED	IV	12 01 33 00	37.30N	141.50E	44	4.4W		**¶602557255**
BJI	IV	12 01 33 08.2	36.83N	141.18E	40	5.2b,4.7b		
MOS	IV	12 01 33 09.0–1.0	37.31N	141.49E	48	4.7b,4.7b		
ISCJB	IV	12 01 33 09.9–.50	37.30N–.03	141.41E–.05	53–3	4.7s,4.5b		
JMA	IV	12 01 33 10.5–.10	37.28N	141.42E	44–1	4.2,4.5b		
NEIC	IV	12 01 33 11.8–.75	37.29N	141.37E	56–6	4.6b,4.5b		
IDC	IV	12 01 33 11.2–.36	37.28N	141.32E	49–3	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ19.00000°,λ64.00000°. NP2:ϕ_s24.00000°,δ73.00000°,λ99.00000°. $M_0$4.71000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.6km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=28.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.3km az=127.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.4km s-min=8.1km az=108.0.

(227) Eastern Honshu

ISC	**IV**	**12 01 59 26.6–2.9**	**37.00N–.05**	**141.3E–.10**	**3–18**	**3.7b**	**19**	**0-155**
ISCJB	IV	12 01 59 28.8–1.6	37.12N–.08	141.28E–.09	18–11	3.6b		**¶600584511**
IDC	IV	12 01 59 33.2–7.5	37.24N	141.80E	33–59	4.2L,3.8		
JMA	IV	12 01 59 35.0	37.02N	140.70E	11–1	3.2,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=11.5km az=143.8.
IDC Error ellipse: s-maj=24.0km s-min=19.7km az=103.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 02 03 52.7–.10**	**40.36N**	**142.19E**	**45–1**	**3.7**		**¶600584520**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(227) Eastern Honshu

JMA	**IV**	**12 02 06 47.3**	**37.10N**	**140.62E**	**13–1**	**3.7**		**¶600584527**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 02 13 50.8–.96**	**37.03N–.03**	**140.54E–.04**	**15–6**	**4.4s,4.4b**	**144**	**0-147**
NIED	IV	12 02 13 00	37.00N	140.70E	8	4.2W,4.4b		**¶16418169**
JMA	IV	12 02 13 50.0	37.02N	140.68E	10–1	4.2,4.4b		
NEIC	IV	12 02 13 50.3–.16	36.98N	140.40E	10	4.6b,4.4b		
ISCJB	IV	12 02 13 51.0–.47	37.00N–.03	140.48E–.04	26–3	4.5b,4.1s		
BJI	IV	12 02 13 52.1	36.67N	140.59E	50	5.2b,4.5b		
IDC	IV	12 02 13 59.4–2.6	37.04N	140.50E	84–22	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ36.00000°,λ-104.00000°. NP2:ϕ_s132.00000°,δ56.00000°,λ-80.00000°. $M_0$2.33000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s134.00000°,δ49.00000°,λ-75.00000°. NP2:ϕ_s291.00000°,δ43.00000°,λ-107.00000°. Principal axes: T Plg3.0000°,Azm213.0000°; N Plg12.0000°,Azm304.0000°; P Plg78.0000°,Azm109.0000°
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=133.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.2km az=17.5.
IDC Error ellipse: s-maj=14.4km s-min=13.5km az=104.0.

(227) Eastern Honshu

JMA	**IV**	**12 02 15 39.5**	**37.10N**	**140.63E**	**13–1**	**3.5**		**¶600584533**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 02 18 34.4–2.1**	**35.44N–.07**	**141.1E–.10**	**25**	**3.7b**	**11**	**0-55**
IDC	IV	12 02 18 29.6–3.0	35.60N	141.87E	0	3.7,3.6b		**¶17200718**
ISCJB	IV	12 02 18 33.7–1.4	35.41N–.06	141.2E–.10	25	3.6b,3.6b		
JMA	IV	12 02 18 35.8–.10	35.41N	141.01E	24–2	3.5,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=90.4km s-min=29.6km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=16.4km s-min=6.8km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 02 23 44.2–1.2**	**35.41N–.04**	**140.77E–.05**	**9–7**	**3.7b**	**41**	**0-148**
NIED	IV	12 02 23 00	35.40N	141.00E	8	4.2W		**¶16423563**
IDC	IV	12 02 23 42.1–.64	35.26N	140.76E	0	3.9,3.8		
ISCJB	IV	12 02 23 43.5–.85	35.45N–.03	140.96E–.07	17–6	4.2s,3.8b		
JMA	IV	12 02 23 44.0–.10	35.48N	140.85E	25–1	4.2,3.8b		
NEIC	IV	12 02 23 47.8–.52	35.41N	140.76E	35	4.1b,3.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ52.00000°,λ-174.00000°. NP2:ϕ_s47.00000°,δ86.00000°,λ-38.00000°. $M_0$2.05000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.5km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.6km az=8.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=10.1km az=14.0. Recorded [3 JMA] in Chiba.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 02 50 51.8–1.0**	**36.97N–.03**	**140.59E–.05**	**9–9**	**3.6b**	**20**	**0-64**
ISCJB	IV	12 02 50 51.5–.67	36.93N–.03	140.74E–.06	15–6	3.5b		**¶17200719**
IDC	IV	12 02 50 51.2–1.1	36.73N	140.68E	0	3.7,3.4		
JMA	IV	12 02 50 52.1	36.95N	140.65E	9–1	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.8km az=17.1.
IDC Error ellipse: s-maj=26.3km s-min=15.8km az=174.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s198.00000°,δ51.00000°,λ-97.00000°. NP2:ϕ_s29.00000°,δ39.00000°,λ-82.00000°. Principal axes: T Plg6.0000°,Azm293.0000°; N Plg5.0000°,Azm202.0000°; P Plg82.0000°,Azm73.0000°

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 02 51 26.8–.10**	**39.16N**	**142.61E**	**28–2**	**3.8**		**¶600584590**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**IV**	**12 03 13 45.5**	**37.03N**	**140.69E**	**10–1**	**3.5**		**¶600584624**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s307.00000°,δ48.00000°,λ-94.00000°. NP2:ϕ_s133.00000°,δ42.00000°,λ-86.00000°. Principal axes: T Plg3.0000°,Azm40.0000°; N Plg3.0000°,Azm310.0000°; P Plg86.0000°,Azm171.0000°

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 03 20 33.3–.10**	**35.51N**	**140.89E**	**23–1**	**3.8**		
NIED	IV	12 03 20 00	35.50N	141.00E	32	4.1W		**¶600584644**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ60.00000°,λ-2.00000°. NP2:ϕ_s6.00000°,δ88.00000°,λ-150.00000°. $M_0$1.53000×10^{15}

(227) Eastern Honshu

ISC	**IV**	**12 03 20 55.7–1.0**	**37.01N–.03**	**140.67E–.04**	**7–7**	**3.6b**	**28**	**0-147**
ISCJB	IV	12 03 20 55.2–.59	37.00N–.03	140.74E–.05	15–4	3.8s,3.7b		**¶600584646**
JMA	IV	12 03 20 55.5	37.01N	140.68E	5–1	3.9,3.7b		
IDC	IV	12 03 20 57.5–4.3	36.97N	140.52E	19–27	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=17.8.
JMA Event type fe.
IDC Error ellipse: s-maj=24.6km s-min=18.4km az=81.0.

(227) Eastern Honshu

JMA	**IV**	**12 03 25 43.6**	**37.02N**	**140.70E**	**9–1**	**3.1**		**¶600584655**

JMA Event type fe.

(390) Southern Italy

ISC	**IV**	**12 03 32 56.3–.67**	**41.59N–.02**	**15.89E–.02**	**13–4**	**3.7b**	**527**	**0-90**
LDG	IV	12 03 32 55.9–.05	41.60N	15.98E	10	3.9L		**¶17208877**
IDC	IV	12 03 32 55.6–.85	41.74N	16.01E	0	3.9,3.8b		
CSEM	IV	12 03 32 55.7–.08	41.58N	15.82E	10	4.2L,3.8b		
ROM	IV	12 03 32 55.7–.14	41.59N	16.01E	7–1	3.9L,3.8b		
NEIC	IV	12 03 32 55.0	41.66N	16.12E	10	3.9L,3.8b		
PDG	IV	12 03 32 56.2–.59	41.62N	16.01E	10–0	3.7L,3.8b		
ISCJB	IV	12 03 32 56.5–.22	41.62N–.01	15.95E–.01	18–2	3.7b,3.8b		
PRU	IV	12 03 32 58.4	41.62N	16.27E	19	3.7b,3.8b		

ISC Event type fe.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=20.0.
IDC Error ellipse: s-maj=15.1km s-min=12.4km az=57.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=21.0.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=39.0.
NEIC Event type fe. Felt [IV] at Manfredonia and Monte Sant'Angelo. Felt widely in northern Puglia. After ROM.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.7km az=32.7.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 03 33 18.9–1.6**	**35.47N–.04**	**140.98E–.06**	**19–7**	**4.0b,3.3s**	**45**	**0-148**
NIED	IV	12 03 33 00	35.50N	141.10E	29	4.1W,3.3s		**¶16505345**
ISCJB	IV	12 03 33 18.3–.77	35.46N–.03	141.04E–.06	31–4	4.0b,3.4s		
JMA	IV	12 03 33 19.1–.10	35.53N	140.98E	27–1	3.8,3.4s		
IDC	IV	12 03 33 23.1–3.0	35.43N	140.81E	51–26	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ11.00000°,λ-130.00000°. NP2:ϕ_s237.00000°,δ81.00000°,λ-83.00000°. $M_0$1.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.5km az=6.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.6km s-min=12.4km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 04 32 55.6–1.7**	**36.86N–.06**	**140.72E–.06**	**3–10**	**3.7b**	**32**	**0-147**
NIED	IV	12 04 32 00	36.90N	140.60E	8	3.7W		**¶17200726**
IDC	IV	12 04 32 54.9–.72	36.78N	140.76E	0	3.9,3.8		
ISCJB	IV	12 04 32 56.0–.78	36.91N–.03	140.73E–.05	15–5	3.7b,3.8		
JMA	IV	12 04 32 56.6	36.94N	140.65E	11–1	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ41.00000°,λ-142.00000°. NP2:ϕ_s156.00000°,δ66.00000°,λ-55.00000°. $M_0$4.07000×10^{14}
IDC Error ellipse: s-maj=18.6km s-min=16.3km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.5km az=22.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s289.00000°,δ58.00000°,λ-116.00000°. NP2:ϕ_s151.00000°,δ40.00000°,λ-55.00000°. Principal axes: T Plg10.0000°,Azm37.0000°; N Plg22.0000°,Azm303.0000°; P Plg66.0000°,Azm150.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 04 42 45.2–1.0**	**37.69N–.06**	**141.79E–.07**	**24**	**3.3b**	**17**	**1-146**
ISCJB	IV	12 04 42 43.7–.95	37.69N–.06	141.90E–.07	24	3.3b		**¶17200728**
JMA	IV	12 04 42 43.3–.20	37.64N	141.87E	22–3	3.7		
IDC	IV	12 04 42 47.3–5.4	37.49N	142.11E	41–47	3.3,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=8.0km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=47.5km s-min=30.1km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 04 59 39.4–.49**	**35.36N–.04**	**140.79E–.07**	**33**	**3.9b**	**45**	**0-148**
NIED	IV	12 04 59 00	35.50N	140.80E	20	4.2W		**¶16505347**
ISCJB	IV	12 04 59 37.7–.40	35.39N–.03	140.80E–.06	33	3.9b		
JMA	IV	12 04 59 37.1–.10	35.49N	140.81E	25–2	4.1		
NEIC	IV	12 04 59 39.9–.33	35.31N	140.76E	35	4.0b		
IDC	IV	12 04 59 40.2–3.2	35.31N	140.71E	35–26	3.9,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ33.00000°,λ104.00000°. NP2:ϕ_s12.00000°,δ58.00000°,λ81.00000°. $M_0$1.93000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=173.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=7.3km az=71.0. Recorded [2 JMA] in Chiba.
IDC Error ellipse: s-maj=17.7km s-min=13.3km az=83.0.

(227) Eastern Honshu

ISC	**IV**	**12 05 07 42.2–.29**	**37.12N–.02**	**140.58E–.02**	**14–1**	**6.2b,5.9s**	**2277**	**0-165**
NIED	IV	12 05 07 00	37.00N	140.70E	8	5.9W,5.9s		**¶16418173**
BJI	IV	12 05 07 35.5	36.90N	140.80E	5	6.3s,6.2		
ISCJB	IV	12 05 07 39.4–.47	37.13N–.01	140.40E–.01	5–2	6.0b,5.9s		
IDC	IV	12 05 07 40.0–.30	37.13N	140.48E	0	5.7,5.7		
NEIC	IV	12 05 07 41.9–.07	37.11N	140.37E	11	6.3b,6.2		
GCMT	IV	12 05 07 41.9–.10	37.08N	140.63E	18–0	5.9W,6.2		
NEIC	IV	12 05 07 42.0–.00	37.00N	140.90E	15	5.9W,6.2		
JMA	IV	12 05 07 42.2	37.05N	140.64E	15–1	6.4,6.2		
MOS	IV	12 05 07 44.4–.91	37.44N	140.38E	28	6.3b,5.9s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ51.00000°,λ2.00000°. NP2:ϕ_s76.00000°,δ89.00000°,λ141.00000°. M_o7.05000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=153.4.
IDC Error ellipse: s-maj=11.8km s-min=8.1km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=138.0. Felt in the Tokyo area. Recorded [6L JMA] in Fukushima and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s81 Moment tensor: Scale 10^{17}Nm; M_{rr}2.03 $M_{\theta\theta}$1.77 $M_{\phi\phi}$-3.80 $M_{r\theta}$4.66 $M_{\theta\phi}$-4.61 $M_{\phi r}$2.04 Best double couple: NP1:ϕ_s67.00000°,δ80.00000°,λ133.00000°. NP2:ϕ_s167.00000°,δ44.00000°,λ14.00000°. Principal axes: T 6.9300,Plg39.0000°,Azm15.0000° ; N 1.2300,Plg42.0000°,Azm238.0000°; P -8.1600,Plg23.0000°,Azm125.0000° M_o7.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s179.00000°,δ30.00000°,λ10.00000°. NP2:ϕ_s80.00000°,δ85.00000°,λ120.00000°. Principal axes: T Plg42.0000°,Azm19.0000°; N Plg0.0000°,Azm0.0000°; P Plg33.0000° ,Azm145.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c278; s141,c445;Duration: 2τ3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.24±.01 $M_{\theta\theta}$0.22±.01; $M_{\phi\phi}$-0.46±.01; $M_{r\theta}$0.55±.02; $M_{\theta\phi}$-0.73±.01; $M_{\phi r}$0.11±.01; Best double couple: NP1:ϕ_s73.00000°,δ81.00000°,λ143.00000°. NP2:ϕ_s170.00000° ,δ53.00000°,λ12.00000°. Principal axes: T 0.9530,Plg33.0000°,Azm25.0000° ; N 0.1020,Plg52.0000°,Azm241.0000°; P -1.0550,Plg18.0000°,Azm127.0000° M_o1.00400×10^{18}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}4.19 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-4.00 $M_{r\theta}$4.92 $M_{\theta\phi}$-4.31 $M_{\phi r}$2.49 Best double couple: NP1:ϕ_s58.00000° ,δ71.00000°,λ116.00000°. NP2:ϕ_s182.00000°,δ32.00000°,λ38.00000°. Principal axes: T 7.3900,Plg56.0000°,Azm2.0000°; N 1.2800,Plg24.0000°,Azm228.0000° ; P -8.6800,Plg21.0000°,Azm128.0000° M_o8.10000×10^{17}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s51.00000° ,δ58.00000°,λ107.00000°. NP2:ϕ_s202.00000°,δ36.00000°,λ66.00000°. Principal axes: T Plg72.0000°,Azm2.0000°; N Plg14.0000°,Azm222.0000°; P Plg11.0000°,Azm129.0000°
MOS Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=106.6. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.

(227) Eastern Honshu

JMA	**IV**	**12 05 10 43.8**	**37.03N**	**140.68E**	**11–1**	**4.3**		
								¶600584767

JMA Event type fe.

(227) Eastern Honshu

JMA	**IV**	**12 05 12 11.6–.30**	**36.80N**	**138.59E**	**0–3**	**3.7**		
								¶600584768

JMA Event type fe.

(227) Eastern Honshu

JMA	**IV**	**12 05 14 37.9**	**37.07N**	**140.65E**	**15–1**	**3.8**		
								¶600584769

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**12 05 15 06.2–.92**	**37.07N–.03**	**140.63E–.06**	**11–8**	**4.0b**	**24**	**0-68**
ISCJB	IV	12 05 15 05.9–.59	37.06N–.03	140.77E–.05	19–4	3.9b		**¶600584771**
JMA	IV	12 05 15 06.5	37.05N	140.67E	13–1	4.5		
IDC	IV	12 05 15 11.5–3.8	36.67N	140.63E	72–33	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=19.9.
JMA Event type fe.
IDC Error ellipse: s-maj=36.3km s-min=22.3km az=87.0.

(227) Eastern Honshu

ISC	**IV**	**12 05 26 33.5–.68**	**37.07N–.03**	**140.67E–.03**	**18–4**	**4.7b**	**259**	**0-152**
BJI	IV	12 05 26 26.8	36.97N	141.22E	5	5.3b,5.3s		**¶16418174**
ISCJB	IV	12 05 26 32.8–.38	37.06N–.02	140.67E–.03	24–2	4.9s,4.6b		
JMA	IV	12 05 26 33.2	37.04N	140.65E	14–1	4.8,4.6b		
IDC	IV	12 05 26 33.4–4.0	37.06N	140.57E	16–24	4.5,4.5		
MOS	IV	12 05 26 34.1–1.3	37.16N	140.62E	33	4.8b,4.5		
NEIC	IV	12 05 26 36.4–.19	37.06N	140.65E	35	4.7b,4.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=41.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s274.00000°,δ69.00000°,λ-119.00000°. NP2:ϕ_s152.00000°,δ35.00000°,λ-38.00000°. Principal axes: T Plg19.0000°,Azm26.0000°; N Plg27.0000°,Azm286.0000°; P Plg56.0000° ,Azm146.0000°
IDC Error ellipse: s-maj=13.9km s-min=9.8km az=98.0.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=98.8.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.2km az=125.0. Recorded [4 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**IV**	**12 05 32 46.8–1.0**	**37.11N–.03**	**140.58E–.05**	**9–8**	**3.5b**	**25**	**0-64**
ISCJB	IV	12 05 32 46.7–.51	37.09N–.03	140.71E–.05	20–4	3.4b		**¶17200731**
JMA	IV	12 05 32 47.1	37.10N	140.65E	15–1	4.0		
IDC	IV	12 05 32 54.2–2.9	36.98N	140.46E	71–26	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.9km az=15.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ85.00000°,λ151.00000°. NP2:ϕ_s168.00000°,δ61.00000°,λ6.00000°. Principal axes: T Plg24.0000°,Azm27.0000°; N Plg60.0000°,Azm245.0000°; P Plg16.0000° ,Azm125.0000°
IDC Error ellipse: s-maj=25.2km s-min=17.5km az=101.0.

(227) Eastern Honshu

ISC	**IV**	**12 05 42 20.1–1.2**	**37.09N–.03**	**140.59E–.04**	**4–8**	**3.7b**	**30**	**0-147**
ISCJB	IV	12 05 42 20.0–.89	37.07N–.03	140.68E–.04	14–6	3.6b		**¶600584790**
IDC	IV	12 05 42 19.4–.75	37.03N	140.55E	0	3.8,3.7		
JMA	IV	12 05 42 20.4	37.08N	140.64E	6–2	4.1,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=24.4.
IDC Error ellipse: s-maj=19.7km s-min=18.1km az=155.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s233.00000°,δ64.00000°,λ-95.00000°. NP2:ϕ_s65.00000°,δ26.00000°,λ-79.00000°. Principal axes: T Plg19.0000°,Azm327.0000°; N Plg5.0000°,Azm235.0000°; P Plg70.0000° ,Azm132.0000°

(227) Eastern Honshu

ISC	**IV**	**12 05 49 48.6–1.1**	**37.00N–.03**	**140.65E–.04**	**8–8**	**3.5b**	**24**	**0-69**
ISCJB	IV	12 05 49 48.0–.65	36.99N–.03	140.71E–.06	17–5	4.4s,3.5b		**¶600584811**
IDC	IV	12 05 49 47.1–.97	36.92N	140.70E	0	4.2,4.2s		
JMA	IV	12 05 49 48.4	37.00N	140.63E	6–1	3.8,4.2s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=10.4.
IDC Error ellipse: s-maj=22.5km s-min=20.5km az=97.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**12 06 23 18.3–.92**	**37.01N–.03**	**140.66E–.05**	**11–6**	**3.5b**	**26**	**0-147**
IDC	IV	12 06 23 16.8–.72	37.02N	140.70E	0	3.9,3.7		**¶17200740**
ISCJB	IV	12 06 23 17.7–.65	36.99N–.03	140.82E–.07	18–4	3.7b,3.7		
JMA	IV	12 06 23 18.6	37.01N	140.67E	8–1	3.9,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=17.7km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.9km az=19.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s44.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_s224.00000°,δ44.00000°,λ-90.00000°. Principal axes: T Plg1.0000°,Azm134.0000°; N Plg0.0000°,Azm44.0000°; P Plg89.0000° ,Azm314.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 06 57 27.5–.83**	**35.50N–.04**	**140.85E–.08**	**33**	**3.5b**	**15**	**0-79**
IDC	IV	12 06 57 23.6–.87	35.32N	141.24E	0	3.7,3.6		**¶17200745**
JMA	IV	12 06 57 25.9–.10	35.46N	140.88E	23–1	3.5,3.6		
ISCJB	IV	12 06 57 26.1–.68	35.44N–.06	141.0E–.10	33	3.5b,3.6		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 07 03 25.8–.93**	**35.41N–.07**	**140.78E–.09**	**33**	**3.3b**	**12**	**0-76**
IDC	IV	12 07 03 21.5–1.1	35.21N	141.16E	0	3.5,3.3		**¶17200746**
ISCJB	IV	12 07 03 24.7–.79	35.40N–.06	141.04E–.10	33	3.2b,3.3		
JMA	IV	12 07 03 24.0–.10	35.46N	140.96E	22–2	3.4,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=25.8km az=22.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.8km az=150.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**12 07 14 19.2–1.4**	**37.10N–.04**	**140.9E–.10**	**8–6**	**3.6b**	**15**	**0-69**
IDC	IV	12 07 14 17.0–1.9	37.09N	141.14E	0	3.6,3.6b		**¶602557222**
ISCJB	IV	12 07 14 17.6–1.9	37.10N–.04	141.0E–.10	9–9	3.6b,3.6b		
JMA	IV	12 07 14 19.4	37.10N	140.86E	7–1	3.1,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=26.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=18.1km s-min=6.7km az=9.6.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**12 07 15 00.2–1.0**	**36.82N–.03**	**138.53E–.03**	**6–6**	**4.6b,3.7s**	**305**	**0-149**
NIED	IV	12 07 14 00	36.80N	138.60E	5	4.5W,3.7s		**¶602557260**
BJI	IV	12 07 14 54.3	36.59N	139.14E	10	4.9b,4.5b		
IDC	IV	12 07 14 58.4–.43	36.88N	138.47E	0	4.2,4.2		
ISCJB	IV	12 07 14 59.3–.54	36.86N–.02	138.42E–.03	4–3	4.5b,3.9s		
JMA	IV	12 07 14 59.5–.30	36.83N	138.57E	1–3	4.6,3.9s		
MOS	IV	12 07 15 01.1–1.6	36.78N	138.34E	26	4.6b,3.9s		
NEIC	IV	12 07 15 02.3–.97	36.76N	138.33E	17–6	4.7b,3.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ61.00000°,λ10.00000°. NP2:ϕ_s263.00000°,δ81.00000°,λ151.00000°. M_o6.39000×10^{15}
IDC Error ellipse: s-maj=13.1km s-min=5.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.6km az=151.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s9.00000°,δ87.00000°,λ20.00000°. NP2:ϕ_s278.00000°,δ70.00000°,λ177.00000°. Principal axes: T Plg16.0000°,Azm235.0000°; N Plg70.0000°,Azm17.0000°; P Plg12.0000° ,Azm142.0000°
MOS Error ellipse: s-maj=9.7km s-min=5.8km az=87.6.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.2km az=155.0. Recorded [4 JMA] in Nagano.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 07 42 45.3–.99**	**36.75N–.04**	**141.50E–.05**	**43–8**	**4.4b,3.7s**	**197**	**1-149**
NIED	IV	12 07 42 00	36.70N	141.50E	29	4.2W,3.7s		**¶600584963**
BJI	IV	12 07 42 40.8	36.86N	141.22E	5	4.8b,4.8s		
JMA	IV	12 07 42 43.6–.10	36.74N	141.50E	38–3	4.4,4.8s		
ISCJB	IV	12 07 42 44.1–.61	36.72N–.04	141.47E–.04	45–5	4.4b,3.9s		
IDC	IV	12 07 42 45.4–2.0	36.68N	141.53E	47–20	4.1,4.1		
MOS	IV	12 07 42 45.5–1.0	37.00N	141.43E	47	4.4b,4.1		
NEIC	IV	12 07 42 47.8–.74	36.72N	141.40E	63–7	4.6b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ31.00000°,λ90.00000°. NP2: ϕ_s188.00000°,δ59.00000°,λ90.00000°. M_o2.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=141.7.
IDC Error ellipse: s-maj=15.5km s-min=13.5km az=92.0.
MOS Error ellipse: s-maj=9.1km s-min=7.1km az=78.4.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.8km az=190.0.

(227) Eastern Honshu

ISC	**IV**	**12 07 47 15.7–.96**	**37.02N–.03**	**140.69E–.04**	**9–6**	**4.2b**	**88**	**0-147**
NIED	IV	12 07 47 00	37.10N	140.80E	5	4.3W		**¶16418180**
ISCJB	IV	12 07 47 15.7–.56	37.02N–.03	140.87E–.05	19–3	4.1b,3.6s		
JMA	IV	12 07 47 16.4	37.05N	140.78E	11–1	4.4,3.6s		
MOS	IV	12 07 47 17.1–1.1	36.95N	140.89E	33	4.4b,3.6s		
NEIC	IV	12 07 47 22.4–.82	37.09N	140.67E	59–7	4.5b,3.6s		
IDC	IV	12 07 47 22.5–2.1	36.99N	140.71E	62–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ49.00000°,λ-40.00000°. NP2:ϕ_s2.00000°,δ61.00000°,λ-131.00000°. M_o2.95000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=30.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s240.00000°,δ54.00000°,λ-54.00000°. NP2:ϕ_s8.00000°,δ49.00000°,λ-130.00000°. Principal axes: T Plg3.0000°,Azm305.0000°; N Plg29.0000°,Azm37.0000°; P Plg61.0000° ,Azm210.0000°
MOS Error ellipse: s-maj=10.1km s-min=6.5km az=79.8.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=6.8km az=121.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.5km s-min=11.7km az=123.0.

(227) Eastern Honshu

ISC	**IV**	**12 07 49 19.8–1.0**	**37.06N–.04**	**140.62E–.06**	**8–8**	**4.0b**	**23**	**0-147**
ISCJB	IV	12 07 49 19.4–.61	37.04N–.03	140.76E–.06	19–4	3.8b		**¶17200759**
JMA	IV	12 07 49 20.1	37.04N	140.67E	8–1	3.9		
IDC	IV	12 07 49 28.2–3.9	36.97N	140.46E	76–32	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=7.5.
JMA Event type fe.
IDC Error ellipse: s-maj=31.8km s-min=17.8km az=82.0.

(227) Eastern Honshu

JMA	**IV**	**12 08 14 28.3**	**40.26N**	**140.37E**	**12–1**	**3.5**		
								¶600585021

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s108.00000°,δ78.00000°,λ17.00000°. NP2:ϕ_s15.00000°,δ74.00000°,λ168.00000°. Principal axes: T Plg20.0000°,Azm332.0000°; N Plg70.0000°,Azm143.0000°; P Plg3.0000° ,Azm241.0000°

(227) Eastern Honshu

ISC	**IV**	**12 08 48 26.0–.61**	**37.06N–.02**	**140.64E–.03**	**14–3**	**4.9b,3.9s**	**727**	**0-150**
NIED	IV	12 08 48 00	37.00N	140.70E	5	4.5W,3.9s		**¶602557231**
BJI	IV	12 08 48 19.1	36.82N	141.04E	5	4.9b,4.7b		
IDC	IV	12 08 48 23.6–.40	37.06N	140.56E	0	4.8,4.8		
JMA	IV	12 08 48 25.4	37.03N	140.69E	10–1	4.9,4.8		
ISCJB	IV	12 08 48 26.3–.47	37.03N–.02	140.49E–.02	24–3	4.8b,3.9s		
MOS	IV	12 08 48 29.2–.82	37.36N	140.39E	34	5.0b,3.9s		
NEIC	IV	12 08 48 30.3–.46	37.08N	140.43E	41–4	4.8b,3.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ37.00000°,λ-89.00000°. NP2:ϕ_s73.00000°,δ53.00000°,λ-91.00000°. M_o6.98000×10^{15}
IDC Error ellipse: s-maj=11.1km s-min=9.0km az=142.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ51.00000°,λ-100.00000°. NP2:ϕ_s270.00000°,δ40.00000°,λ-79.00000°. Principal axes: T Plg5.0000°,Azm172.0000°; N Plg7.0000°,Azm81.0000°; P Plg81.0000° ,Azm297.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=44.8.
MOS Error ellipse: s-maj=6.4km s-min=4.4km az=101.7.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=136.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 09 00 49.0–2.2**	**37.30N–.04**	**141.84E–.08**	**9–12**	**4.0b**	**54**	**1-117**
NIED	IV	12 09 00 00	37.30N	141.90E	8	3.9W		**¶600585095**
IDC	IV	12 09 00 47.6–.61	37.29N	141.82E	0	4.1,4.0		
ISCJB	IV	12 09 00 48.9–1.3	37.28N–.03	141.87E–.07	21–8	4.0b,3.2s		
JMA	IV	12 09 00 49.2–.20	37.29N	141.89E	27–3	4.4,3.2s		
NEIC	IV	12 09 00 53.2–.73	37.28N	141.82E	38–6	4.3b,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ26.00000°,λ-82.00000°. NP2:ϕ_s35.00000°,δ65.00000°,λ-94.00000°. M_o8.68000×10^{14}

IDC Error ellipse: s-maj=16.3km s-min=14.5km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.8km az=12.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.9km az=119.0.

(227) Eastern Honshu

ISC	**IV**	**12 09 14 27.7–1.1**	**36.82N–.04**	**138.62E–.03**	**7–10**		**22**	**0-85**
NIED	IV	12 09 14 00	36.80N	138.60E	8	3.8W		**¶17200764**
IDC	IV	12 09 14 26.4–2.1	36.85N	138.63E	0	3.9,3.8		
ISCJB	IV	12 09 14 27.1–.55	36.83N–.04	138.60E–.04	9–5	3.9b,3.3s		
JMA	IV	12 09 14 27.8	36.83N	138.61E	5–3	3.6,3.3s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ76.00000°,λ-177.00000°. NP2:ϕ_s10.00000°,δ87.00000°,λ-14.00000°. $M_0$4.74000×10^{14}
IDC Error ellipse: s-maj=14.0km s-min=8.1km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.0km az=146.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s104.00000°,δ87.00000°,λ176.00000°. NP2:ϕ_s194.00000°,δ86.00000°,λ3.00000°. Principal axes: T Plg5.0000°,Azm59.0000°; N Plg85.0000°,Azm250.0000°; P Plg1.0000° ,Azm149.0000°

(227) Eastern Honshu

JMA	**IV**	**12 09 16 51.8**	**37.02N**	**140.70E**	**10–1**	**3.6**	
NIED	IV	12 09 16 00	37.00N	140.70E	5	3.3W	**¶600585137**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ54.00000°,λ-138.00000°. NP2:ϕ_s326.00000°,δ57.00000°,λ-44.00000°. $M_0$8.72000×10^{13}

(115) Near coast of Peru

ISC	**IV**	**12 09 30 08.1–.81**	**16.5S–.10**	**73.65W–.09**	**39**	**4.0b,3.7s**	**25**	**5-149**
SCB	IV	12 09 29 51.8–.93	15.87S	74.62W	42	3.9L,3.7s		**¶16587471**
ISCJB	IV	12 09 30 06.3–.81	16.5S–.10	73.83W–.09	39	4.0b,3.6s		
NEIC	IV	12 09 30 08.5–1.3	16.43S	73.56W	45–11	4.4,3.6s		
IDC	IV	12 09 30 09.0–2.5	16.45S	73.53W	48–22	4.1,4.0		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=23.0km s-min=17.4km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=17.3km s-min=9.1km az=32.7.
NEIC Event type fe. Error ellipse: s-maj=15.3km s-min=9.9km az=213.0. Felt [II] at Atico.
IDC Error ellipse: s-maj=25.3km s-min=18.0km az=44.0.

(227) Eastern Honshu

ISC	**IV**	**12 10 15 34.5–.83**	**37.16N–.03**	**140.70E–.03**	**8–5**	**4.4b,3.5s**	**196**	**0-151**
NIED	IV	12 10 15 00	37.20N	140.90E	5	4.1W,3.5s		**¶602557232**
BJI	IV	12 10 15 31.4	37.16N	140.83E	5	4.9b,4.6s		
IDC	IV	12 10 15 32.9–.43	37.15N	140.70E	0	4.4,4.3L		
JMA	IV	12 10 15 34.7	37.15N	140.82E	10	4.5,4.3L		
ISCJB	IV	12 10 15 34.6–.42	37.14N–.02	140.78E–.03	19–2	4.4b,3.6s		
MOS	IV	12 10 15 37.0–1.1	37.20N	140.70E	39	4.6b,3.6s		
NEIC	IV	12 10 15 40.3–.64	37.12N	140.66E	52–5	4.5b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ52.00000°,λ-36.00000°. NP2:ϕ_s354.00000°,δ62.00000°,λ-136.00000°. $M_0$1.42000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=111.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ54.00000°,λ-59.00000°. NP2:ϕ_s13.00000°,δ46.00000°,λ-125.00000°. Principal axes: T Plg4.0000°,Azm307.0000°; N Plg25.0000°,Azm39.0000°; P Plg65.0000° ,Azm209.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=25.5.
MOS Error ellipse: s-maj=8.5km s-min=5.7km az=89.7.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=123.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 10 47 41.5–3.7**	**35.91N–.05**	**141.11E–.08**	**5–24**	**3.5b**	**14**	**0-65**
NIED	IV	12 10 47 00	35.90N	141.10E	5	3.5W		**¶17200768**
IDC	IV	12 10 47 40.0–1.4	35.67N	141.17E	0	3.6,3.4		
ISCJB	IV	12 10 47 42.4–1.2	35.91N–.06	141.14E–.08	22–7	3.4b,3.4		
JMA	IV	12 10 47 43.2–.10	35.93N	141.09E	20–2	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ50.00000°,λ-142.00000°. NP2:ϕ_s66.00000°,δ62.00000°,λ-47.00000°. $M_0$1.81000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=29.9km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=9.4km az=155.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**12 11 00 53.0–1.3**	**37.07N–.05**	**140.64E–.04**	**16–9**	**3.7b**	**27**	**0-91**
NIED	IV	12 11 00 00	37.10N	140.70E	14	3.5W		**¶602557243**
IDC	IV	12 11 00 50.6–.82	37.08N	140.62E	0	4.0,3.8		
ISCJB	IV	12 11 00 52.6–.50	37.06N–.03	140.73E–.06	25–3	3.7b,3.8		
JMA	IV	12 11 00 53.5	37.06N	140.64E	15–1	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ38.00000°,λ122.00000°. NP2:ϕ_s45.00000°,δ59.00000°,λ68.00000°. $M_0$2.33000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=16.3km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=0.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s253.00000°,δ47.00000°,λ101.00000°. NP2:ϕ_s58.00000°,δ44.00000°,λ79.00000°. Principal axes: T Plg82.0000°,Azm232.0000°; N Plg8.0000°,Azm66.0000°; P Plg2.0000° ,Azm336.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 11 47 02.9–.84**	**36.13N–.05**	**140.10E–.06**	**53–7**	**3.6b**	**28**	**0-92**
NIED	IV	12 11 47 00	36.10N	140.10E	62	3.7W		**¶17200771**
ISCJB	IV	12 11 47 01.9–.54	36.12N–.04	140.12E–.06	60–4	3.5b		
IDC	IV	12 11 47 01.1–3.6	36.14N	139.91E	34–27	3.6,3.6		
JMA	IV	12 11 47 03.4–.10	36.13N	140.05E	49–1	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ29.00000°,λ145.00000°. NP2:ϕ_s47.00000°,δ74.00000°,λ66.00000°. $M_0$3.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=169.0.
IDC Error ellipse: s-maj=32.4km s-min=16.1km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s45.00000°,δ75.00000°,λ91.00000°. NP2: ϕ_s221.00000°,δ15.00000°,λ87.00000°. Principal axes: T Plg60.0000°,Azm316.0000° ; N Plg1.0000°,Azm224.0000°; P Plg30.0000°,Azm134.0000°

(227) Eastern Honshu

ISC	**IV**	**12 12 33 50.6–.95**	**37.03N–.03**	**140.64E–.04**	**11–8**	**3.6b**	**17**	**0-61**
NIED	IV	12 12 33 00	37.00N	140.60E	5	3.5W		**¶17200774**
ISCJB	IV	12 12 33 50.0–.62	37.02N–.04	140.69E–.06	20–5	3.6b		
IDC	IV	12 12 33 49.0–1.4	36.96N	140.64E	0	3.8,3.6b		
JMA	IV	12 12 33 50.6	37.03N	140.62E	6–1	3.8,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ43.00000°,λ-92.00000°. NP2:ϕ_s56.00000°,δ47.00000°,λ-88.00000°. $M_0$1.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.0km az=5.8.
IDC Error ellipse: s-maj=27.0km s-min=17.6km az=8.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ50.00000°,λ-103.00000°. NP2:ϕ_s249.00000°,δ42.00000°,λ-75.00000°. Principal axes: T Plg4.0000°,Azm148.0000°; N Plg10.0000°,Azm57.0000°; P Plg79.0000° ,Azm260.0000°

(259) Mindanao

MAN	**IV**	**12 12 57 50**	**8.19N**	**124.84E**	**11**	**3.9s**	
							¶601669008

MAN Event type fe. INTENSITY III - VALENCIA CITY BUKIDNON; INTENSITY I - MALAYBALAY BUKIDNON.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 13 04 19.7–1.0**	**36.96N–.04**	**140.74E–.07**	**15–8**		**13**	**0-61**
NIED	IV	12 13 04 00	37.00N	140.70E	8	3.4W		**¶600585473**
ISCJB	IV	12 13 04 18.7–.94	36.96N–.04	140.82E–.09	23–6	3.9b		
IDC	IV	12 13 04 19.0–2.5	36.67N	140.71E	0	4.0,3.8		
JMA	IV	12 13 04 20.1	36.97N	140.69E	10–1	3.6,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ41.00000°,λ-46.00000°. NP2:ϕ_s291.00000°,δ62.00000°,λ-121.00000°. $M_0$1.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.7km az=6.9.
IDC Error ellipse: s-maj=42.5km s-min=17.1km az=14.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s151.00000°,δ58.00000°,λ-58.00000°. NP2:ϕ_s281.00000°,δ44.00000°,λ-130.00000°. Principal axes: T Plg8.0000°,Azm219.0000°; N Plg27.0000°,Azm313.0000°; P Plg62.0000° ,Azm114.0000°

(227) Eastern Honshu

ISC	**IV**	**12 13 07 31.8–1.1**	**36.82N–.05**	**138.61E–.03**	**8–10**		**20**	**0-60**
NIED	IV	12 13 07 00	36.80N	138.60E	5	3.8W		**¶17200778**
IDC	IV	12 13 07 30.6–1.6	36.83N	138.62E	0	3.7,3.5		
ISCJB	IV	12 13 07 31.7–.49	36.76N–.04	138.61E–.04	24–6	3.6b,3.5		
JMA	IV	12 13 07 31.6	36.81N	138.62E	0	3.5,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ59.00000°,λ-179.00000°. NP2:ϕ_s12.00000°,δ89.00000°,λ-31.00000°. $M_0$4.83000×10^{14}
IDC Error ellipse: s-maj=12.0km s-min=9.3km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=152.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s16.00000°,δ89.00000°,λ-18.00000°. NP2:ϕ_s107.00000°,δ72.00000°,λ-179.00000°. Principal axes: T Plg12.0000°,Azm63.0000°; N Plg72.0000°,Azm194.0000°; P Plg13.0000° ,Azm330.0000°

(227) Eastern Honshu

JMA	**IV**	**12 13 25 59.2**	**37.05N**	**140.67E**	**12–1**	**3.7**		
NIED	IV	12 13 25 00	37.10N	140.70E	17	3.5W		**¶600585489**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s260.00000°,δ75.00000°,λ-135.00000°. NP2:ϕ_s156.00000°,δ47.00000°,λ-21.00000°. Principal axes: T Plg17.0000°,Azm22.0000°; N Plg43.0000°,Azm275.0000°; P Plg42.0000° ,Azm128.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ22.00000°. NP2:ϕ_s60.00000°,δ82.00000°,λ109.00000°. $M_0$1.69000×10^{14}

(227) Eastern Honshu

JMA	**IV**	**12 13 30 08.6**	**37.01N**	**140.67E**	**10–1**	**3.5**	
							¶600585491

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 14 04 23.4–.20**	**35.69N**	**140.96E**	**8–1**	**3.5**		
NIED	IV	12 14 04 00	35.70N	141.00E	5	3.7W		**¶600585535**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ30.00000°,λ-57.00000°. NP2:ϕ_s150.00000°,δ65.00000°,λ-108.00000°. $M_0$3.97000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 14 55 18.1–1.2**	**35.46N–.04**	**140.98E–.06**	**14–7**	**4.0b,3.3s**	**43**	**0-148**
NIED	IV	12 14 55 00	35.50N	141.00E	20	4.2W,3.3s		**¶16505349**
ISCJB	IV	12 14 55 18.1–.67	35.51N–.03	140.98E–.06	23–4	3.9b,3.4s		
JMA	IV	12 14 55 18.9–.10	35.52N	140.88E	24–1	4.4,3.4s		
IDC	IV	12 14 55 22.6–1.9	35.51N	140.94E	45–18	3.9,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ50.00000°,λ-34.00000°. NP2:ϕ_s170.00000°,δ65.00000°,λ-134.00000°. $M_0$2.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.8km az=6.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=12.8km az=109.0.

(227) Eastern Honshu

ISC	**IV**	**12 15 09 49.7–1.0**	**37.02N–.03**	**140.68E–.05**	**7–7**	**3.6b**	**31**	**0-91**
NIED	IV	12 15 09 00	37.00N	140.70E	5	3.7W		**¶17200783**
IDC	IV	12 15 09 48.6–.64	36.99N	140.76E	0	3.8,3.7		
ISCJB	IV	12 15 09 49.4–.68	37.02N–.03	140.86E–.07	15–4	3.6b,3.7		
JMA	IV	12 15 09 50.4	37.04N	140.74E	9–1	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ35.00000°,λ-65.00000°. NP2:ϕ_s217.00000°,δ59.00000°,λ-106.00000°. $M_0$4.00000×10^{14}
IDC Error ellipse: s-maj=15.4km s-min=12.0km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.6km az=13.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s100.00000°,δ63.00000°,λ-32.00000°. NP2:ϕ_s206.00000°,δ62.00000°,λ-149.00000°. Principal axes: T Plg1.0000°,Azm153.0000°; N Plg49.0000°,Azm244.0000°; P Plg41.0000° ,Azm62.0000°

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 15 14 09.3–.10**	**35.69N**	**140.95E**	**9–1**	**3.5**		
NIED	IV	12 15 14 00	35.70N	140.90E	5	3.6W		**¶600585616**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ29.00000°,λ-87.00000°. NP2:ϕ_s170.00000°,δ62.00000°,λ-91.00000°. $M_0$3.11000×10^{14}

(227) Eastern Honshu

ISC	**IV**	**12 16 02 02.7–1.1**	**37.00N–.06**	**140.69E–.05**	**8–12**		**20**	**0-61**
ISCJB	IV	12 16 02 02.3–1.8	37.02N–.03	140.77E–.06	12–14	3.3b,3.0s		**¶17200789**
JMA	IV	12 16 02 03.1	37.03N	140.67E	7–1	3.4,3.0s		
IDC	IV	12 16 02 03.9–2.1	36.66N	140.72E	0	3.5,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=13.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s197.00000°,δ54.00000°,λ-115.00000°. NP2:ϕ_s55.00000°,δ43.00000°,λ-60.00000°. Principal axes: T Plg6.0000°,Azm304.0000°; N Plg20.0000°,Azm212.0000°; P Plg69.0000° ,Azm50.0000°
IDC Error ellipse: s-maj=42.4km s-min=6.3km az=15.0.

(227) Eastern Honshu

ISC	**IV**	**12 16 03 37.0–1.4**	**36.96N–.05**	**140.69E–.04**	**1–11**	**3.5b**	**23**	**0-61**
NIED	IV	12 16 03 00	37.00N	140.70E	8	3.4W		**¶17200790**
IDC	IV	12 16 03 36.7–1.1	36.88N	140.81E	0	3.7,3.4		
JMA	IV	12 16 03 37.8	37.02N	140.69E	9–1	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ47.00000°,λ-131.00000°. NP2:ϕ_s54.00000°,δ56.00000°,λ-55.00000°. $M_0$1.35000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=21.4km az=81.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s192.00000°,δ71.00000°,λ-143.00000°. NP2:ϕ_s88.00000°,δ55.00000°,λ-23.00000°. Principal axes: T Plg10.0000°,Azm317.0000°; N Plg49.0000°,Azm215.0000°; P Plg39.0000° ,Azm55.0000°

(227) Eastern Honshu

JMA	**IV**	**12 16 59 57.0**	**37.10N**	**140.66E**	**12–1**	**3.6**	
							¶17200791

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 16 59 58.7–1.1**	**35.41N–.04**	**141.03E–.10**	**33**	**3.5b**	**17**	**0-65**
IDC	IV	12 16 59 57.3–3.3	35.15N	141.07E	11–19	3.4,3.4		**¶600585689**
ISCJB	IV	12 16 59 59.1–.77	35.35N–.04	140.96E–.09	33	3.4b,3.1s		
JMA	IV	12 16 59 59.0–.10	35.45N	140.93E	24–2	4.0,3.1s		

ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=18.2km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.9km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**12 18 04 10.6–.10**	**36.29N**	**140.94E**	**46–1**	**3.5**		
NIED	IV	12 18 04 00	36.30N	140.90E	56	3.6W		**¶600585770**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ8.00000°,λ112.00000°. NP2:ϕ_s46.00000°,δ82.00000°,λ87.00000°. $M_0$3.30000×10^{14}

(227) Eastern Honshu

JMA	**IV**	**12 18 06 33.8**	**37.01N**	**140.66E**	**7–1**	**3.0**		
								¶600585771

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**12 18 47 52.7–1.3**	**36.99N–.04**	**140.63E–.04**	**2–10**	**3.6b**	**28**	**0-69**
NIED	IV	12 18 47 00	37.10N	140.70E	8	3.6W		**¶16423568**
IDC	IV	12 18 47 52.3–1.0	36.84N	140.86E	0	3.8,3.7		
ISCJB	IV	12 18 47 53.2–.54	37.03N–.03	140.75E–.05	15–4	3.6b,3.7		
JMA	IV	12 18 47 53.7	37.07N	140.67E	13–1	4.0,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ76.00000°,λ-9.00000°. NP2:ϕ_s277.00000°,δ81.00000°,λ-166.00000°. $M_0$2.86000×10^{14}
IDC Error ellipse: s-maj=24.8km s-min=16.9km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.5km az=15.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s284.00000°,δ80.00000°,λ-152.00000°. NP2:ϕ_s189.00000°,δ62.00000°,λ-11.00000°. Principal axes: T Plg12.0000°,Azm54.0000°; N Plg60.0000°,Azm302.0000°; P Plg27.0000° ,Azm150.0000°

(228) Near east coast of eastern Honshu
ISC IV 12 19 02 15.9–.80 36.96N–.03 140.61E–.03 17–5 4.6b,3.2s 231 0-149
NIED IV 12 19 02 00 36.90N 140.70E 5 4.1W,3.2s **¶16423569**
IDC IV 12 19 02 13.8–.50 37.00N 140.48E 0 4.5,4.4
ISCJB IV 12 19 02 15.3–.39 36.95N–.02 140.63E–.03 21–2 4.5b,3.3s
JMA IV 12 19 02 15.5 36.95N 140.63E 7–1 4.5,3.3s
MOS IV 12 19 02 17.4–1.2 37.07N 140.61E 33 4.7b,3.3s
BJI IV 12 19 02 17.0 36.70N 140.63E 41 4.7b,4.5b
NEIC IV 12 19 02 20.1–.61 36.98N 140.46E 43–5 4.6b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ34.00000°,λ-103.00000°. NP2:ϕ_s49.00000°,δ57.00000°,λ-81.00000°. $M_0$1.84000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.6km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=30.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s52.00000°,δ61.00000°,λ-83.00000°. NP2:ϕ_s218.00000°,δ30.00000°,λ-102.00000°. Principal axes: T Plg16.0000°,Azm137.0000°; N Plg6.0000°,Azm229.0000°; P Plg73.0000°,Azm339.0000°
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=127.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
JMA IV 12 19 04 50.5 36.88N 140.81E 7–1 4.0
NIED IV 12 19 04 00 36.90N 140.80E 5 3.6W **¶600585814**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ62.00000°,λ-2.00000°. NP2:ϕ_s124.00000°,δ88.00000°,λ-152.00000°. $M_0$3.26000×10^{14}
(227) Eastern Honshu
ISC IV 12 19 29 34.3–.97 37.05N–.03 140.61E–.04 9–7 3.5b 25 0-69
IDC IV 12 19 29 30.9–1.2 37.20N 141.08E 0 3.6,3.5 **¶600585833**
ISCJB IV 12 19 29 33.7–1.7 37.04N–.03 140.68E–.04 11–12 3.4b,3.5
JMA IV 12 19 29 34.3 37.04N 140.63E 8–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=21.9km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=17.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s140.00000°,δ49.00000°,λ-68.00000°. NP2:ϕ_s287.00000°,δ45.00000°,λ-114.00000°. Principal axes: T Plg2.0000°,Azm214.0000°; N Plg17.0000°,Azm305.0000°; P Plg73.0000°,Azm117.0000°
(227) Eastern Honshu
ISC IV 12 19 34 39.6–.91 37.08N–.03 140.67E–.05 19–3 3.8b 35 0-74
NIED IV 12 19 34 00 37.10N 140.70E 14 3.5W **¶602557264**
ISCJB IV 12 19 34 38.7–.53 37.08N–.03 140.76E–.05 27–3 3.8b
JMA IV 12 19 34 39.9 37.07N 140.65E 15–1 3.8
IDC IV 12 19 34 43.1–2.2 37.07N 140.71E 49–21 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ26.00000°,λ136.00000°. NP2:ϕ_s47.00000°,δ72.00000°,λ71.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=16.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ62.00000°,λ69.00000°. NP2:ϕ_s260.00000°,δ34.00000°,λ124.00000°. Principal axes: T Plg66.0000°,Azm273.0000°; N Plg18.0000°,Azm51.0000°; P Plg15.0000°,Azm146.0000°
IDC Error ellipse: s-maj=19.0km s-min=12.0km az=61.0.
(228) Near east coast of eastern Honshu
ISC IV 12 19 37 48.3–.35 39.38N–.03 141.98E–.03 48–2 5.5b,5.1s 1315 0-162
NIED IV 12 19 37 00 39.40N 142.00E 47 5.6W,5.1s **¶16423572**
BJI IV 12 19 37 44.8 39.40N 142.00E 50 5.4b,5.2s
MOS IV 12 19 37 46.9–.83 39.49N 141.89E 42 5.7b,5.2s
ISCJB IV 12 19 37 48.0–.25 39.33N–.02 141.92E–.02 56–2 5.4b,5.1s
JMA IV 12 19 37 48.4–.10 39.34N 142.06E 48–1 5.5,5.1s
GCMT IV 12 19 37 48.3–.10 39.39N 142.13E 52–0 5.6W,5.1s
NEIC IV 12 19 37 48.3–.10 39.37N 141.90E 45 5.6W,5.6W
NEIC IV 12 19 37 49.0–.00 39.43N 142.02E 44 5.6W,5.6W
IDC IV 12 19 37 51.2–2.1 39.38N 141.90E 72–18 5.0s,5.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ101.00000°. $M_0$2.64000×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.6km az=94.7.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=153.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ61.00000°,λ94.00000°. NP2:ϕ_s186.00000°,δ29.00000°,λ82.00000°. Principal axes: T Plg74.0000°,Azm295.0000°; N Plg4.0000°,Azm192.0000°; P Plg16.0000°,Azm101.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c208; s123,c296;Duration: 1π6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.45±.04 $M_{\theta\theta}$-0.18±.03; $M_{\phi\phi}$-2.26±.03; $M_{r\theta}$1.04±.03; $M_{\theta\phi}$-0.64±.02; $M_{\phi r}$1.88±.03; Best double couple: NP1:ϕ_s24.00000°,δ66.00000°,λ97.00000°. NP2:ϕ_s188.00000°,δ25.00000°,λ75.00000°. Principal axes: T 3.2870,Plg68.0000°,Azm308.0000°; N -0.0590,Plg6.0000°,Azm201.0000°; P -3.2210,Plg20.0000°,Azm109.0000° $M_0$3.25400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=146.0. Felt at Kesennuma. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s70 Moment tensor: Scale 10^{17}Nm; M_{rr}2.62 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-2.32 $M_{r\theta}$1.35 $M_{\theta\phi}$-0.67 $M_{\phi r}$2.32 Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ97.00000°. Principal axes: T 3.8000,Plg66.0000°,Azm308.0000°; N -0.1600,Plg6.0000°,Azm204.0000°; P -3.6400,Plg23.0000°,Azm111.0000° $M_0$3.70000×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$-1.28 $M_{r\theta}$0.89 $M_{\theta\phi}$-0.19 $M_{\phi r}$2.56 Best double couple: NP1:ϕ_s18.00000°,δ75.00000°,λ91.00000°. NP2:ϕ_s192.00000°,δ15.00000°,λ84.00000°. Principal axes: T 3.3700,Plg59.0000°,Azm290.0000°; N -0.4900,Plg1.0000°,Azm198.0000°; P -2.8800,Plg30.0000°,Azm107.0000° $M_0$3.20000×10^{17}
IDC Error ellipse: s-maj=11.7km s-min=8.2km az=91.0.
(460) Wyoming
ISC IV 12 20 06 27.8–.69 43.63N–.04 105.27W–.03 0 80 1-90
IDC IV 12 20 06 26.9–1.4 43.62N 105.48W 0 4.4b,4.3 **¶16577797**
ISCJB IV 12 20 06 27.8–.23 43.60N–.02 105.28W–.03 0 4.7s,4.6b
NEIC IV 12 20 06 28.3–.37 43.63N 105.16W 0 3.5L,4.6b
ISC Event type sm.
IDC Error ellipse: s-maj=34.1km s-min=9.3km az=154.0.
ISCJB Event type fm. Error ellipse: s-maj=3.8km s-min=2.4km az=154.6.
NEIC Event type fm. Error ellipse: s-maj=5.0km s-min=4.6km az=57.0. 78 km [49 miles] SSE of Gillette. Suspected Mining explosion.
(228) Near east coast of eastern Honshu
ISC IV 12 20 13 25.5–.94 35.65N–.04 140.13E–.06 74–7 3.4b 30 0-77
IDC IV 12 20 13 13.6–1.2 36.02N 141.11E 0 3.7,3.7L **¶600585863**
ISCJB IV 12 20 13 24.7–.57 35.64N–.03 140.13E–.06 78–4 3.3b,3.7L
JMA IV 12 20 13 26.0–.20 35.70N 140.13E 67–2 3.2,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=20.4km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.4km az=164.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 12 20 47 35.9–.00 36.99N–.04 140.60E–.04 13–7 3.6b 33 0-147
NIED IV 12 20 47 00 37.00N 140.60E 5 3.7W **¶17200806**
IDC IV 12 20 47 34.3–.72 37.04N 140.60E 0 3.9,3.7
ISCJB IV 12 20 47 35.6–.50 36.97N–.03 140.71E–.05 21–3 3.6b,3.7
JMA IV 12 20 47 36.2 36.98N 140.60E 8–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ41.00000°,λ-95.00000°. NP2:ϕ_s272.00000°,δ49.00000°,λ-85.00000°. $M_0$4.00000×10^{14}
IDC Error ellipse: s-maj=19.1km s-min=16.2km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=15.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s272.00000°,δ55.00000°,λ-83.00000°. NP2:ϕ_s79.00000°,δ35.00000°,λ-101.00000°. Principal axes: T Plg10.0000°,Azm357.0000°; N Plg6.0000°,Azm88.0000°; P Plg78.0000°,Azm208.0000°
(227) Eastern Honshu
ISC IV 12 20 52 09.7–1.2 37.05N–.03 140.55E–.05 6–10 3.5b 24 0-147
NIED IV 12 20 52 00 37.10N 140.70E 62 3.8W **¶17200807**
IDC IV 12 20 52 08.1–1.2 37.15N 140.80E 0 3.6,3.5
ISCJB IV 12 20 52 09.9–.61 37.05N–.03 140.78E–.06 22–4 3.4b,3.5
JMA IV 12 20 52 10.9 37.06N 140.68E 11–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ33.00000°,λ-124.00000°. NP2:ϕ_s186.00000°,δ63.00000°,λ-70.00000°. $M_0$5.05000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=20.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.9km az=2.2.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 12 20 53 35.4–1.0 39.18N–.06 142.5E–.10 20–6 3.6b 28 1-68
NIED IV 12 20 53 00 39.20N 142.40E 80 4.1W **¶17200808**
IDC IV 12 20 53 32.1–.88 39.20N 142.55E 0 3.7,3.6
ISCJB IV 12 20 53 34.9–1.2 39.17N–.05 142.52E–.07 30–6 3.5b,3.6
JMA IV 12 20 53 36.8–.10 39.20N 142.40E 27–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ23.00000°,λ-151.00000°. NP2:ϕ_s187.00000°,δ79.00000°,λ-69.00000°. $M_0$1.36000×10^{15}
IDC Error ellipse: s-maj=23.3km s-min=19.1km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=8.1km az=17.9.
JMA Event type fe.
(460) Wyoming
ISC IV 12 21 04 57.9–.82 43.71N–.03 105.28W–.03 0 48 1-20
ISCJB IV 12 21 04 56.9–.41 43.74N–.03 105.28W–.04 0 **¶17200809**
IDC IV 12 21 04 57.1–2.4 43.64N 105.46W 0 3.5,3.3L
NEIC IV 12 21 04 58.1–.39 43.73N 105.23W 0 3.3L,3.3L
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.2km s-min=3.9km az=23.3.
IDC Error ellipse: s-maj=58.4km s-min=11.1km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=5.9km s-min=5.0km az=182.0. 66 km [41 miles] SSE of Gillette. Suspected Mining explosion.
(228) Near east coast of eastern Honshu
ISC IV 12 21 07 46.3–1.1 36.56N–.04 140.95E–.07 47–8 3.7b 29 0-147
NIED IV 12 21 07 00 36.60N 140.90E 53 3.9W **¶17200810**
IDC IV 12 21 07 37.5–1.3 36.79N 141.54E 0 4.0,4.0s
ISCJB IV 12 21 07 45.5–.71 36.55N–.04 140.94E–.07 56–5 4.0s,3.6b
JMA IV 12 21 07 46.5–.10 36.55N 140.90E 49–1 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ7.00000°,λ100.00000°. NP2:ϕ_s48.00000°,δ83.00000°,λ89.00000°. $M_0$7.96000×10^{14}
IDC Error ellipse: s-maj=36.3km s-min=19.9km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.3km az=13.3.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA IV 12 21 48 32.1–.10 36.46N 141.19E 44–2 3.6
NIED IV 12 21 48 00 36.50N 141.20E 59 3.7W **¶600585956**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ41.00000°,λ30.00000°. NP2:ϕ_s123.00000°,δ71.00000°,λ126.00000°. $M_0$4.24000×10^{14}
(228) Near east coast of eastern Honshu
ISC IV 12 21 52 09.0–.46 36.36N–.03 141.86E–.04 26–2 4.9b,4.4s 492 1-154
NIED IV 12 21 52 00 36.40N 141.80E 26 4.7W,4.4s **¶600585958**
IDC IV 12 21 52 04.7–.47 36.34N 141.87E 0 4.9L,4.7
ISCJB IV 12 21 52 07.9–.83 36.36N–.02 141.79E–.02 27–5 4.9b,4.3s
NEIC IV 12 21 52 08.8–2.0 36.34N 141.76E 23–14 4.9b,4.3s
JMA IV 12 21 52 08.9–.10 36.41N 141.82E 53–4 4.6,4.3s
BJI IV 12 21 52 08.3 36.37N 141.65E 31 4.9b,4.9b
MOS IV 12 21 52 11.3–.81 36.76N 141.70E 43 5.1b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ16.00000°,λ-132.00000°. NP2:ϕ_s213.00000°,δ79.00000°,λ-79.00000°. $M_0$1.29000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.2km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=143.1.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.7km az=102.4.
(123) Northern Chile
ISC IV 12 21 57 14.2–.51 22.75S–.04 69.43W–.05 79–4 3.8b 55 0-149
ISCJB IV 12 21 57 14.2–.34 22.73S–.03 69.45W–.05 90–3 4.0b **¶16437935**
IDC IV 12 21 57 14.5–.69 22.78S 69.28W 79–5 4.0,3.9
NEIC IV 12 21 57 16.0 22.70S 69.48W 73 4.4b,3.9
GUC IV 12 21 57 16.0–.68 22.70S 69.48W 73–5 4.4L,3.9
SJA IV 12 21 57 20.1–.56 23.00S 68.99W 178–44 3.4W,3.0L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.0km az=162.5.
IDC Error ellipse: s-maj=20.5km s-min=17.2km az=35.0.
NEIC Event type fe. Felt [III] at Sierra Gorda and Tocopilla; [II] at Quillagua. After GUC.
GUC Error ellipse: s-maj=3.6km s-min=4.3km az=-1.0.
SJA Error ellipse: s-maj=6.3km s-min=15.4km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 12 22 09 08.5–.97 36.86N–.03 140.59E–.04 12–8 3.5b 20 0-57
IDC IV 12 22 09 06.8–1.6 36.82N 140.62E 0 3.7,3.5 **¶17200816**
ISCJB IV 12 22 09 08.1–.62 36.85N–.03 140.63E–.06 20–6 3.4b,3.5
JMA IV 12 22 09 08.5 36.87N 140.58E 6–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.0km az=2.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.5km az=17.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s177.00000°,δ75.00000°,λ-80.00000°. NP2:ϕ_s323.00000°,δ18.00000°,λ-123.00000°. Principal axes: T Plg29.0000°,Azm259.0000°; N Plg10.0000°,Azm354.0000°; P Plg59.0000°,Azm101.0000°
(229) Off east coast of Honshu
ISC IV 12 22 11 40.1–.56 37.93N–.05 142.09E–.06 30 4.0b 50 1-146
NIED IV 12 22 11 00 37.90N 142.10E 38 4.1W **¶16587477**
ISCJB IV 12 22 11 38.1–.41 37.91N–.04 142.23E–.05 30 4.0b,3.5s
JMA IV 12 22 11 39.4–.20 37.93N 142.12E 26–3 3.9,3.5s
NEIC IV 12 22 11 41.3–.86 37.94N 142.16E 39–7 4.2b,3.5s
IDC IV 12 22 11 41.3–2.7 37.90N 142.18E 39–23 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ34.00000°,λ-34.00000°. NP2:ϕ_s101.00000°,δ72.00000°,λ-119.00000°. $M_0$1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=146.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.2km az=123.0.
IDC Error ellipse: s-maj=15.8km s-min=13.6km az=101.0.
(228) Near east coast of eastern Honshu
ISC IV 12 22 35 49.2–1.2 36.90N–.03 140.62E–.04 4–7 4.1b 63 0-147
NIED IV 12 22 35 00 36.90N 140.60E 8 3.9W **¶16587479**
IDC IV 12 22 35 48.5–.53 36.90N 140.66E 0 4.4L,4.1
ISCJB IV 12 22 35 49.6–.51 36.92N–.02 140.75E–.04 20–3 4.0s,4.0b
JMA IV 12 22 35 50.4 36.95N 140.64E 10–1 3.8,4.0b
NEIC IV 12 22 35 53.5–.42 36.85N 140.59E 35 4.3b,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ41.00000°,λ-77.00000°. NP2:ϕ_s282.00000°,δ50.00000°,λ-101.00000°. $M_0$8.48000×10^{14}
IDC Error ellipse: s-maj=15.1km s-min=12.7km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.7km az=21.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s274.00000°,δ55.00000°,λ-115.00000°. NP2:ϕ_s134.00000°,δ42.00000°,λ-58.00000°. Principal axes: T Plg7.0000°,Azm22.0000°; N Plg21.0000°,Azm289.0000°; P Plg68.0000°,Azm130.0000°
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.4km az=116.0.
(229) Off east coast of Honshu
ISC IV 12 22 54 15.4–.60 37.75N–.04 142.07E–.06 34–1 4.0b 68 1-146
NIED IV 12 22 54 00 37.70N 142.10E 29 4.0W **¶16505351**
ISCJB IV 12 22 54 13.7–.90 37.72N–.04 142.15E–.07 36–7 4.0b,3.0s
JMA IV 12 22 54 14.3–.20 37.74N 142.05E 34–4 4.1,3.0s
IDC IV 12 22 54 15.3–.58 37.70N 142.13E 34–3 4.1L,4.0
NEIC IV 12 22 54 15.4–.38 37.75N 142.16E 35 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ27.00000°,λ-130.00000°. NP2:ϕ_s190.00000°,δ70.00000°,λ-72.00000°. $M_0$9.86000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.7km az=15.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=11.3km az=107.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.5km az=141.0.

(227) Eastern Honshu

ISC	**IV**	**12 22 55 17.5–.92**	**37.03N–.03**	**140.68E–.04**	**10–6**	**3.7b**	**28**	**0-147**
NIED	IV	12 22 55 00	37.00N	140.70E	53	4.0W		¶17200820
ISCJB	IV	12 22 55 16.8–.59	37.03N–.03	140.77E–.05	18–4	3.8b		
IDC	IV	12 22 55 16.0–.77	37.03N	140.68E	0	4.0,3.8		
JMA	IV	12 22 55 17.6	37.04N	140.69E	9–1	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ47.00000°,λ126.00000°. NP2:ϕ_s352.00000°,δ54.00000°,λ57.00000°. $M_0$1.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.4km az=18.1.
IDC Error ellipse: s-maj=21.1km s-min=18.3km az=129.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 23 36 21.2–.36**	**35.45N–.02**	**140.82E–.03**	**19–1**	**5.2b,5.0s**	**916**	**0-159**
NIED	IV	12 23 36 00	35.40N	141.00E	17	5.1W,5.0s		¶16423576
BJI	IV	12 23 36 17.3	35.19N	141.14E	30	5.3s,5.2		
ISCJB	IV	12 23 36 20.7–.44	35.42N–.02	140.75E–.02	21–3	5.1b,5.0s		
JMA	IV	12 23 36 20.2–.10	35.49N	140.88E	27–1	5.3,5.0s		
GCMT	IV	12 23 36 21.5–.20	35.38N	140.82E	23–0	5.2W,5.0s		
NEIC	IV	12 23 36 21.5–2.2	35.38N	140.68E	19–13	5.3b,5.0s		
MOS	IV	12 23 36 22.2–1.0	35.63N	140.75E	26	5.3b,4.9s		
IDC	IV	12 23 36 22.1–1.3	35.40N	140.82E	26–8	4.8,4.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ34.00000°,λ-178.00000°. NP2:ϕ_s53.00000°,δ89.00000°,λ-56.00000°. $M_0$5.04000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.6km az=145.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s28.00000°,δ62.00000°,λ-94.00000°. NP2: ϕ_s217.00000°,δ28.00000°,λ-82.00000°. Principal axes: T Plg17.0000°,Azm121.0000° ; N Plg4.0000°,Azm30.0000°; P Plg73.0000°,Azm288.0000°
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c72; s84,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.98±.21 $M_{\theta\theta}$-0.91±.13; $M_{\phi\phi}$5.89±.15; $M_{r\theta}$-2.58±.22; $M_{\theta\phi}$1.38±.08; $M_{\phi r}$-2.36±.19; Best double couple: NP1:ϕ_s31.00000°,δ62.00000° ,λ-68.00000°. NP2:ϕ_s170.00000°,δ36.00000°,λ-125.00000°. Principal axes: T 6.8580,Plg14.0000°,Azm105.0000°; N -0.4300,Plg20.0000°,Azm200.0000° ; P -6.4320,Plg66.0000°,Azm342.0000° $M_0$6.64500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=126.0. Recorded [3 JMA] in Chiba and Ibaraki.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=106.5.
IDC Error ellipse: s-maj=10.1km s-min=7.4km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**12 23 54 15.2–.48**	**38.25N–.04**	**141.86E–.05**	**62–3**	**4.3b**	**150**	**0-146**
NIED	IV	12 23 54 00	38.30N	141.90E	68	4.3W		¶16423577
BJI	IV	12 23 54 02.9	37.52N	142.17E	10	5.2b,4.7s		
MOS	IV	12 23 54 13.2–1.0	38.29N	141.99E	62	4.5b,4.7s		
ISCJB	IV	12 23 54 13.8–.53	38.25N–.03	141.93E–.05	66–3	4.2b,4.7s		
IDC	IV	12 23 54 15.2–.45	38.22N	141.75E	61–3	4.3,4.1		
NEIC	IV	12 23 54 15.9–.96	38.26N	141.80E	70–8	4.7b,4.1		
JMA	IV	12 23 54 15.1–.10	38.27N	141.87E	61–1	4.5,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ45.00000°,λ64.00000°. NP2:ϕ_s211.00000°,δ51.00000°,λ113.00000°. $M_0$3.16000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=5.9km az=93.6.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=31.5.
IDC Error ellipse: s-maj=10.4km s-min=9.0km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=8.7km s-min=6.9km az=117.0. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**IV**	**13 00 13 00.6–.54**	**37.44N–.05**	**142.22E–.05**	**20–3**	**4.4b**	**141**	**1-146**
NIED	IV	13 00 12 00	37.40N	142.20E	14	4.2W		¶16436795
ISCJB	IV	13 00 12 58.0–.99	37.40N–.04	142.29E–.04	17–6	4.3b,3.9s		
BJI	IV	13 00 12 58.1	37.20N	142.32E	27	5.2b,4.8s		
MOS	IV	13 00 12 59.3–1.2	37.44N	142.34E	27	4.6b,4.8s		
JMA	IV	13 00 12 59.0–.20	37.39N	142.22E	19	4.4,4.8s		
IDC	IV	13 00 13 01.4–.56	37.32N	142.26E	27–3	4.2,4.2		
NEIC	IV	13 00 13 02.6–.85	37.36N	142.24E	37–7	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ15.00000°,λ49.00000°. NP2:ϕ_s42.00000°,δ79.00000°,λ100.00000°. $M_0$2.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=140.6.
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=112.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=11.6km az=112.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.6km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 01 07 59.9–.43**	**36.95N–.02**	**140.63E–.02**	**20–1**	**5.4b,5.0s**	**1118**	**0-161**
NIED	IV	13 01 07 00	36.90N	140.70E	5	5.4W,5.0s		¶602557276
BJI	IV	13 01 07 55.9	36.76N	140.85E	24	5.4s,5.3b		
ISCJB	IV	13 01 07 57.0–.50	36.94N–.02	140.42E–.02	7–3	5.3b,5.0s		
IDC	IV	13 01 07 57.4–.31	36.99N	140.50E	0	5.1,5.1		
JMA	IV	13 01 07 58.0	36.92N	140.71E	5–1	5.7,5.1		
MOS	IV	13 01 08 01.9–.81	37.31N	140.40E	30	5.5b,4.9s		
GCMT	IV	13 01 08 02.2–.10	36.93N	140.63E	12	5.3W,4.9s		
NEIC	IV	13 01 08 02.2–1.1	36.95N	140.42E	32–7	5.4b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ33.00000°,λ-92.00000°. NP2:ϕ_s180.00000°,δ57.00000°,λ-89.00000°. $M_0$1.36000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=153.6.
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=86.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s331.00000° ,δ51.00000°,λ-114.00000°. NP2:ϕ_s187.00000°,δ45.00000°,λ-63.00000°. Principal axes: T Plg3.0000°,Azm78.0000°; N Plg19.0000°,Azm347.0000°; P Plg71.0000°,Azm177.0000°
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=103.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c119; s131,c259; Duration: 1ś1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$1.26±.01; $M_{r\theta}$0.12±.04; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$0.18±.04; Best double couple: NP1:ϕ_s180.00000°,δ49.00000° ,λ-82.00000°. NP2:ϕ_s348.00000°,δ42.00000°,λ-99.00000°. Principal axes: T 1.2830,Plg4.0000°,Azm265.0000°; N 0.0430,Plg6.0000°,Azm355.0000° ; P -1.3250,Plg83.0000°,Azm143.0000° $M_0$1.30400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=129.0. Recorded [5L JMA] in Ibaraki.

(14) Kenai Peninsula

NEIC	**IV**	**13 01 16 01.2**	**60.37N**	**150.70W**	**44**	**2.2L**	**¶16587486**

NEIC Event type fe. Felt at Soldotna. After AEIC.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 01 21 48.8–1.1**	**36.90N–.03**	**140.62E–.06**	**5–9**	**3.4b**	**24**	**0-64**
ISCJB	IV	13 01 21 48.0–.74	36.86N–.03	140.79E–.06	14–4	3.4b		¶17200838
IDC	IV	13 01 21 47.8–.98	36.77N	140.69E	0	3.6,3.4		
JMA	IV	13 01 21 48.7	36.88N	140.69E	5–1	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.6km az=15.9.
IDC Error ellipse: s-maj=21.3km s-min=16.2km az=179.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 02 46 05.0–1.4**	**40.08N–.05**	**141.94E–.09**	**13–7**	**3.9b**	**17**	**0-90**
NIED	IV	13 02 46 00	40.10N	141.90E	5	3.8W		¶17200843
ISCJB	IV	13 02 46 04.0–1.5	40.07N–.04	142.0E–.10	17–8	3.8b,3.3s		
JMA	IV	13 02 46 05.4	40.08N	141.93E	8–1	4.0,3.3s		
IDC	IV	13 02 46 18.6–2.7	39.83N	141.17E	112–25	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ33.00000°,λ-127.00000°. NP2:ϕ_s296.00000°,δ64.00000°,λ-68.00000°. $M_0$6.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.1km s-min=6.9km az=169.7.
JMA Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=15.6km az=86.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 03 16 59.6–.55**	**36.15N–.04**	**141.00E–.07**	**31**	**4.2b,3.1s**	**78**	**0-118**
NIED	IV	13 03 16 00	36.10N	141.10E	11	4.2W,3.1s		¶17200846
ISCJB	IV	13 03 16 57.7–.38	36.13N–.03	141.15E–.05	31	4.2b,3.1s		
JMA	IV	13 03 16 57.8–.10	36.07N	141.14E	43–1	4.2,3.1s		
NEIC	IV	13 03 17 00.4–1.3	35.93N	141.07E	42–12	4.5b,3.1s		
BJI	IV	13 03 17 02.7	36.01N	140.39E	42	5.0b,4.7s		
MOS	IV	13 03 17 03.8–.85	36.40N	140.81E	65	4.5b,4.7s		
IDC	IV	13 03 17 03.3–1.7	36.05N	140.92E	62–15	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ11.00000°,λ-92.00000°. NP2:ϕ_s23.00000°,δ79.00000°,λ-90.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.0km az=6.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.0km az=48.0.
MOS Error ellipse: s-maj=11.0km s-min=6.5km az=130.8.
IDC Error ellipse: s-maj=14.9km s-min=8.7km az=67.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 03 21 07.7–.97**	**35.69N–.07**	**140.76E–.08**	**11–8**	**3.7b**	**12**	**0-91**
JMA	IV	13 03 21 07.7–.10	35.70N	140.96E	12	3.4		¶17200848
IDC	IV	13 03 21 13.3–1.2	34.66N	139.22E	0	3.8,3.6		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=47.3km s-min=21.0km az=70.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**13 04 03 11.7–.10**	**37.34N**	**141.36E**	**46–1**	**3.5**		**¶600586177**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 04 24 47.7–2.4**	**38.45N–.05**	**142.19E–.10**	**12–14**	**3.8b**	**15**	**1-62**
ISCJB	IV	13 04 24 48.7–1.6	38.44N–.06	142.22E–.10	27–8	3.7b		¶17200854
IDC	IV	13 04 24 48.2–2.5	38.01N	143.13E	0	3.6,3.6b		
JMA	IV	13 04 24 50.7–.20	38.49N	142.14E	31–2	3.6,3.6b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=9.3km az=15.7.
IDC Error ellipse: s-maj=66.6km s-min=31.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(91) Virgin Islands

ISC	**IV**	**13 04 28 57.3–.24**	**18.82N–.04**	**64.32W–.02**	**39–2**	**5.2b,4.2s**	**1103**	**0-162**
TRN	IV	13 04 28 55.2	18.94N	64.28W	33	5.1,4.2s		¶16427695
ISCJB	IV	13 04 28 56.9–.26	18.83N–.02	64.30W–.01	49–3	5.1b,4.2s		
MOS	IV	13 04 28 57.4–1.1	18.79N	64.37W	51	5.1b,4.1s		
GCMT	IV	13 04 28 57.7–.20	18.98N	64.26W	44–1	5.2W,4.1s		
BJI	IV	13 04 28 57.7	19.00N	64.30W	31	5.4b,5.3s		
NEIC	IV	13 04 28 57.7	18.96N	64.26W	31	5.3b,5.1		
IDC	IV	13 04 28 59.7–1.4	18.71N	64.31W	62–12	4.9,4.8		

ISC Event type fe.
TRN Event type fe. Felt in St. Maarten, MMI II.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.7km az=21.2.
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=116.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c86; s100,c153; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.41±.20 $M_{\theta\theta}$-2.39±.15; $M_{\phi\phi}$-1.03±.16; $M_{r\theta}$-0.22±.13; $M_{\theta\phi}$4.28±.11; $M_{\phi r}$4.12±.14; Best double couple: NP1:ϕ_s342.00000°,δ70.00000° ,λ127.00000°. NP2:ϕ_s97.00000°,δ41.00000°,λ31.00000°. Principal axes: T 6.4150,Plg51.0000°,Azm294.0000°; N 0.4810,Plg34.0000°,Azm148.0000° ; P -6.9060,Plg17.0000°,Azm46.0000° $M_0$6.66100×10^{16}
NEIC Event type fe. Felt [III] at Christiansted, Saint Croix and at Road Town, Tortola. Also felt [III] on Saint John and Saint Thomas. Felt [III] at Carolina and San Juan and [II] at Fajardo, Puerto Rico. Felt widely in eastern Puerto Rico. Felt [II] on Saint Martin. Also felt on Anguilla. After RSPR. Moment Tensor Solution. s20 Moment tensor: Scale 10^{16}Nm; M_{rr}1.68 $M_{\theta\theta}$-0.71 $M_{\phi\phi}$-0.98 $M_{r\theta}$0.63 $M_{\theta\phi}$3.70 $M_{\phi r}$1.83 Best double couple: NP1:ϕ_s355.00000° ,δ72.00000°,λ147.00000°. NP2:ϕ_s96.00000°,δ59.00000°,λ22.00000°. Principal axes: T 4.1200,Plg36.0000°,Azm312.0000°; N 0.5400,Plg53.0000°,Azm149.0000° ; P -4.6700,Plg8.0000°,Azm48.0000° $M_0$4.40000×10^{16}
IDC Error ellipse: s-maj=9.0km s-min=7.5km az=47.0.

(227) Eastern Honshu

ISC	**IV**	**13 04 36 52.5–.96**	**37.12N–.03**	**140.70E–.04**	**6–8**	**3.3b**	**22**	**0-57**
ISCJB	IV	13 04 36 52.0–.55	37.12N–.03	140.76E–.06	11–4	3.3b		¶17200856
IDC	IV	13 04 36 51.4–1.9	37.19N	140.79E	0	3.5,3.4		
JMA	IV	13 04 36 52.3	37.12N	140.70E	7–1	3.4,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=15.8.
IDC Error ellipse: s-maj=38.3km s-min=27.1km az=64.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 05 22 22.1–.72**	**35.61N–.04**	**140.21E–.05**	**64–6**	**3.9b**	**46**	**0-118**
JMA	IV	13 05 22 20.7–.20	35.65N	140.20E	70–2	3.2		¶600586213
ISCJB	IV	13 05 22 21.0–.39	35.61N–.03	140.22E–.05	69–3	3.8b		
IDC	IV	13 05 22 23.7–1.4	35.55N	140.16E	80–12	3.9,3.7		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ85.00000°,λ72.00000°. NP2: ϕ_s280.00000°,δ18.00000°,λ165.00000°. Principal axes: T Plg47.0000°,Azm276.0000° ; N Plg17.0000°,Azm26.0000°; P Plg38.0000°,Azm130.0000°
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.1km az=156.2.
IDC Error ellipse: s-maj=18.5km s-min=7.1km az=67.0.

(229) Off east coast of Honshu

ISC	**IV**	**13 05 41 01.8–.52**	**37.10N–.04**	**142.40E–.04**	**9–2**	**4.7b,3.9s**	**322**	**1-146**
NIED	IV	13 05 40 00	37.10N	142.50E	11	4.5W,3.9s		¶16427696
JMA	IV	13 05 40 58.4–.20	37.07N	142.46E	0	4.7,3.9s		
ISCJB	IV	13 05 40 60.0–1.1	37.08N–.02	142.40E–.02	5–6	4.6b,3.9s		
IDC	IV	13 05 41 00.3–.44	37.03N	142.45E	0	4.6,4.6		
BJI	IV	13 05 41 03.3	37.08N	142.45E	36	4.9b,4.7b		
NEIC	IV	13 05 41 05.9–.13	37.04N	142.35E	35	4.7b,4.7b		
MOS	IV	13 05 41 05.2–.99	37.48N	142.27E	29	4.8b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ44.00000°,λ-134.00000°. NP2:ϕ_s221.00000°,δ60.00000°,λ-56.00000°. $M_0$5.84000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=166.5.
IDC Error ellipse: s-maj=12.3km s-min=10.7km az=96.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=156.0.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=98.2.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 05 49 02.0–1.2**	**35.7N–.10**	**140.72E–.04**	**17–8**	**3.3b**	**14**	**0-91**
NIED	IV	13 05 48 00	35.50N	140.90E	5	4.0W		¶17200865
JMA	IV	13 05 48 58.7–.10	35.48N	140.86E	25–1	3.9		
IDC	IV	13 05 49 02.1–3.9	36.22N	140.83E	0	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ17.00000°,λ-42.00000°. NP2:ϕ_s306.00000°,δ79.00000°,λ-103.00000°. $M_0$1.05000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=112.5km s-min=23.3km az=175.0.

(227) Eastern Honshu

ISC	**IV**	**13 05 52 21.1–.99**	**37.07N–.03**	**140.57E–.04**	**10–7**	**3.8b**	**31**	**0-147**
NIED	IV	13 05 52 00	37.10N	140.80E	20	3.9W		¶16423584
ISCJB	IV	13 05 52 21.5–.47	37.09N–.03	140.73E–.04	21–3	3.8b,3.7s		
JMA	IV	13 05 52 21.9	37.09N	140.65E	14–1	4.1,3.7s		
IDC	IV	13 05 52 29.1–2.8	37.16N	140.44E	71–26	3.9,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ38.00000°,λ28.00000°. NP2:ϕ_s74.00000°,δ73.00000°,λ125.00000°. $M_0$7.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=38.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ66.00000°,λ122.00000°. NP2:ϕ_s198.00000°,δ39.00000°,λ41.00000°. Principal axes: T Plg57.0000°,Azm28.0000°; N Plg29.0000°,Azm240.0000°; P Plg15.0000° ,Azm142.0000°
IDC Error ellipse: s-maj=23.0km s-min=15.9km az=91.0.

(228) Near east coast of eastern Honshu
ISC IV 13 06 09 34.9–1.1 36.73N–.03 140.49E–.04 4–8 3.6b 30 0-91
ISCJB IV 13 06 09 34.5–.71 36.68N–.03 140.70E–.05 11–3 3.6s,3.5b **¶17200867**
IDC IV 13 06 09 34.9–.74 36.77N 140.52E 0 3.8,3.6
JMA IV 13 06 09 35.4 36.70N 140.64E 7–1 3.4,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.6km az=31.7.
IDC Error ellipse: s-maj=20.1km s-min=16.7km az=1.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 13 06 35 54.3–.92 36.96N–.03 140.68E–.04 12–7 3.5b 27 0-91
IDC IV 13 06 35 52.6–1.1 36.96N 140.72E 0 4.1L,3.8 **¶600586259**
ISCJB IV 13 06 35 53.8–.59 36.94N–.03 140.78E–.05 18–4 3.5b,3.8
JMA IV 13 06 35 54.4 36.96N 140.69E 11–1 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=26.6km s-min=20.4km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.4km az=20.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s359.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s183.00000°,δ44.00000°,λ-88.00000°. Principal axes: T Plg1.0000°,Azm91.0000°; N Plg2.0000°,Azm1.0000°; P Plg88.0000°,Azm220.0000°
(228) Near east coast of eastern Honshu
ISC IV 13 06 37 23.7–1.1 37.00N–.03 140.76E–.08 10–7 3.4b 22 0-57
IDC IV 13 06 37 21.7–1.9 37.03N 140.97E 0 3.6,3.5L **¶600586261**
ISCJB IV 13 06 37 22.7–.90 36.97N–.03 140.91E–.07 12–4 3.4b,3.5L
JMA IV 13 06 37 24.0 36.99N 140.77E 7–1 3.5,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=40.7km s-min=28.2km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.6km az=15.2.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 13 07 32 33.9–1.1 39.13N–.05 142.29E–.06 43–9 4.2b,3.3s 86 0-145
NIED IV 13 07 32 00 39.10N 142.40E 32 4.1W,3.3s **¶16427697**
JMA IV 13 07 32 31.6–.10 39.13N 142.40E 32–1 4.1,3.3s
NEIC IV 13 07 32 33.0–.61 39.06N 142.50E 35 4.5b,3.3s
ISCJB IV 13 07 32 33.0–.66 39.14N–.04 142.29E–.06 49–4 4.3b,3.5s
MOS IV 13 07 32 34.8–1.2 39.14N 142.27E 68 4.3b,3.5s
BJI IV 13 07 32 35.8 39.35N 141.17E 14 4.8b,4.6b
IDC IV 13 07 32 36.0–2.0 39.05N 142.35E 65–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ32.00000°,λ-136.00000°. NP2:ϕ_s172.00000°,δ69.00000°,λ-66.00000°. $M_0$1.88000×10^{15}
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.0km az=30.6.
MOS Error ellipse: s-maj=9.5km s-min=7.0km az=89.6.
IDC Error ellipse: s-maj=15.2km s-min=11.0km az=124.0.
(228) Near east coast of eastern Honshu
ISC IV 13 08 26 05.8–.92 38.62N–.04 142.04E–.05 44–7 4.4b,3.4s 135 1-117
NIED IV 13 08 26 00 38.60N 141.90E 44 4.3W,3.4s **¶16423586**
JMA IV 13 08 26 06.9–.10 38.63N 141.93E 48–1 4.2,3.4s
ISCJB IV 13 08 26 06.0–.48 38.66N–.03 141.93E–.05 58–3 4.4b,3.4s
MOS IV 13 08 26 06.6–.86 38.68N 141.94E 64 4.6b,3.4s
NEIC IV 13 08 26 06.2–.50 38.73N 141.93E 35 4.3b,3.4s
IDC IV 13 08 26 08.7–1.9 38.62N 141.84E 65–17 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ17.00000°,λ76.00000°. NP2:ϕ_s26.00000°,δ74.00000°,λ94.00000°. $M_0$2.99000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=26.2.
MOS Error ellipse: s-maj=8.5km s-min=6.1km az=107.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.0km az=123.0.
IDC Error ellipse: s-maj=14.3km s-min=11.8km az=118.0.
(228) Near east coast of eastern Honshu
JMA IV 13 08 44 49.6–.10 37.22N 141.19E 35–1 3.5
NIED IV 13 08 44 00 37.20N 141.20E 62 3.6W **¶600586370**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ33.00000°,λ-88.00000°. NP2:ϕ_s236.00000°,δ57.00000°,λ-91.00000°. $M_0$2.41000×10^{14}
(228) Near east coast of eastern Honshu
JMA IV 13 09 06 13.3 36.97N 140.76E 12–1 3.6
¶600586394
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 13 09 27 27.3–1.5 38.36N–.05 142.0E–.10 59–10 3.5b 34 1-58
ISCJB IV 13 09 27 26.5–.87 38.35N–.04 141.97E–.10 71–6 3.5b **¶17200883**
IDC IV 13 09 27 27.5–2.8 38.38N 142.08E 69–22 3.8,3.5
JMA IV 13 09 27 28.2–.10 38.37N 141.88E 65–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=5.8km az=13.9.
IDC Error ellipse: s-maj=42.0km s-min=19.3km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
JMA IV 13 10 08 00.5 37.06N 140.80E 9–1 2.8
¶600586440
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 13 10 11 45.2–1.3 37.11N–.05 141.3E–.10 56–9 3.4b 21 0-61
NIED IV 13 10 11 00 37.10N 141.10E 53 3.5W **¶600586446**
ISCJB IV 13 10 11 44.9–.98 37.10N–.04 141.25E–.10 61–6 3.4b
JMA IV 13 10 11 47.5–.10 37.13N 141.08E 53–1 3.6
IDC IV 13 10 11 51.5–5.1 36.86N 140.85E 108–35 3.5,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s115.00000°,δ24.00000°,λ27.00000°. NP2:ϕ_s0.00000°,δ80.00000°,λ111.00000°. $M_0$2.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=6.8km az=6.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=54.0km s-min=13.1km az=59.0.
(228) Near east coast of eastern Honshu
ISC IV 13 10 33 14.7–2.5 39.22N–.06 142.39E–.09 9–14 3.5b 17 1-88
NIED IV 13 10 33 00 39.30N 142.30E 38 3.8W **¶17200887**
ISCJB IV 13 10 33 15.5–1.8 39.20N–.05 142.4E–.10 25–12 3.5b
JMA IV 13 10 33 16.9–.10 39.29N 142.35E 29–1 3.8
IDC IV 13 10 33 20.2–3.0 39.18N 142.46E 57–30 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ31.00000°,λ57.00000°. NP2:ϕ_s231.00000°,δ65.00000°,λ108.00000°. $M_0$5.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=8.0km az=12.9.
JMA Event type fe.
IDC Error ellipse: s-maj=38.0km s-min=16.2km az=105.0.
(227) Eastern Honshu
JMA IV 13 10 37 58.4 37.06N 140.59E 8–1 2.8
¶600586473
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA IV 13 10 45 04.3–.10 37.36N 141.29E 35–1 3.7
NIED IV 13 10 45 00 37.40N 141.30E 53 3.6W **¶600586488**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ45.00000°,λ-170.00000°. NP2:ϕ_s215.00000°,δ83.00000°,λ-46.00000°. $M_0$2.46000×10^{14}
(228) Near east coast of eastern Honshu
ISC IV 13 10 54 19.2–2.0 35.41N–.05 140.99E–.08 7–13 3.5b 19 0-65
IDC IV 13 10 54 18.0–1.1 35.36N 141.03E 0 3.6,3.4 **¶17200889**
JMA IV 13 10 54 21.6–.10 35.46N 140.92E 23–2 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=18.6km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC IV 13 11 58 49.1–1.1 36.99N–.05 140.63E–.04 9–9 3.4b 21 0-61
IDC IV 13 11 58 48.5–1.2 36.91N 140.71E 0 3.5,3.4 **¶17200892**
ISCJB IV 13 11 58 49.1–.54 37.00N–.03 140.70E–.05 19–5 3.3b,3.4
JMA IV 13 11 58 49.4 37.01N 140.65E 15–1 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=18.8km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.1km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s45.00000°,δ81.00000°,λ86.00000°. NP2:ϕ_s248.00000°,δ10.00000°,λ113.00000°. Principal axes: T Plg54.0000°,Azm310.0000°; N Plg4.0000°,Azm45.0000°; P Plg36.0000°,Azm138.0000°
(229) Off east coast of Honshu
ISC IV 13 12 05 34.9–.44 38.03N–.04 143.05E–.05 18 4.4b,3.5s 135 1-145
NIED IV 13 12 05 00 38.10N 143.00E 8 4.2W,3.5s **¶16427701**
IDC IV 13 12 05 32.0–.48 38.07N 143.15E 0 4.3,4.2
ISCJB IV 13 12 05 33.0–.29 38.05N–.03 143.10E–.04 18 4.3b,3.6s
JMA IV 13 12 05 33.5–.20 38.14N 143.03E 10 4.4,3.6s
MOS IV 13 12 05 33.9–1.1 38.14N 143.14E 24 4.5b,3.6s
BJI IV 13 12 05 35.3 38.19N 143.09E 34 4.8b,4.5b
NEIC IV 13 12 05 36.8–1.5 38.06N 143.10E 31–10 4.6b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ42.00000°,λ-73.00000°. NP2:ϕ_s355.00000°,δ50.00000°,λ-105.00000°. $M_0$2.40000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=5.8km az=96.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=112.0.
(228) Near east coast of eastern Honshu
ISC IV 13 12 48 13.3–.74 38.50N–.05 142.12E–.07 41 3.6b 25 1-89
NIED IV 13 12 48 00 38.40N 142.20E 17 3.9W **¶17200895**
JMA IV 13 12 48 10.5–.20 38.44N 142.16E 33–3 4.2
ISCJB IV 13 12 48 11.3–.58 38.41N–.05 142.11E–.06 41 3.8b
IDC IV 13 12 48 14.4–2.8 38.30N 142.25E 56–27 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ58.00000°,λ-36.00000°. NP2:ϕ_s294.00000°,δ60.00000°,λ-143.00000°. $M_0$8.59000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.5km az=155.4.
IDC Error ellipse: s-maj=24.6km s-min=14.8km az=96.0.
(228) Near east coast of eastern Honshu
ISC IV 13 12 58 17.8–1.7 37.22N–.04 141.29E–.07 7–10 4.3b 68 0-147
NIED IV 13 12 58 00 37.20N 141.20E 5 4.2W **¶602600751**
ISCJB IV 13 12 58 16.8–1.0 37.20N–.04 141.33E–.05 10–6 4.5s,4.2b
MOS IV 13 12 58 17.5–1.6 37.13N 141.37E 24 4.5b,4.2b
JMA IV 13 12 58 19.0 37.23N 141.20E 14–1 4.5,4.2b
NEIC IV 13 12 58 21.7–.48 37.09N 141.29E 35 4.5b,4.2b
IDC IV 13 12 58 22.8–2.6 37.08N 141.11E 43–24 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ41.00000°,λ-37.00000°. NP2:ϕ_s217.00000°,δ67.00000°,λ-124.00000°. $M_0$1.93000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=135.9.
MOS Error ellipse: s-maj=10.1km s-min=7.2km az=85.7.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.3km az=135.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.5km s-min=14.8km az=105.0.
(228) Near east coast of eastern Honshu
JMA IV 13 12 58 31.4–.10 35.48N 140.85E 25–2 4.2
¶602557297
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(229) Off east coast of Honshu
ISC IV 13 13 24 35.4–2.1 37.58N–.05 142.11E–.07 1–12 3.8b 47 1-89
ISCJB IV 13 13 24 35.5–1.7 37.56N–.03 142.17E–.04 14–10 3.7b **¶17200900**
IDC IV 13 13 24 35.3–.69 37.56N 142.09E 0 3.8,3.7
JMA IV 13 13 24 37.0–.20 37.59N 142.09E 20–3 4.0,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.2km az=139.5.
IDC Error ellipse: s-maj=18.1km s-min=14.0km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 13 13 29 09.9–.56 38.79N–.05 142.45E–.06 27 4.2b 70 1-88
NIED IV 13 13 29 00 38.90N 142.50E 38 4.1W **¶16427702**
ISCJB IV 13 13 29 07.9–.37 38.81N–.04 142.59E–.05 27 4.2s,4.1b
JMA IV 13 13 29 10.5–.20 38.90N 142.47E 36–2 4.1,4.1b
IDC IV 13 13 29 13.0–2.0 38.85N 142.42E 53–17 4.1,3.9L
NEIC IV 13 13 29 13.1–.72 38.90N 142.48E 54–6 4.4b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ30.00000°,λ-110.00000°. NP2:ϕ_s342.00000°,δ62.00000°,λ-79.00000°. $M_0$1.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.8km az=41.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=10.3km az=103.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.3km az=123.0.
(159) North Island
WEL IV 13 13 57 36.8–.05 39.87S 175.11E 33 3.5L
¶16427207
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt between King Country, Manawatu and Whanganui, maximum reported intensity. MM 5.
(227) Eastern Honshu
ISC IV 13 14 04 13.5–.84 37.06N–.03 140.67E–.04 14–6 3.5b 30 0-91
NIED IV 13 14 04 00 37.10N 140.70E 11 3.6W **¶600586672**
IDC IV 13 14 04 11.2–.88 37.05N 140.71E 0 3.7,3.6
ISCJB IV 13 14 04 12.8–.49 37.06N–.03 140.77E–.05 22–3 3.5b,3.6
JMA IV 13 14 04 13.6 37.06N 140.67E 13–1 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ43.00000°,λ96.00000°. NP2:ϕ_s51.00000°,δ47.00000°,λ84.00000°. $M_0$2.58000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=15.8km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=21.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s270.00000°,δ53.00000°,λ121.00000°. NP2:ϕ_s46.00000°,δ47.00000°,λ56.00000°. Principal axes: T Plg66.0000°,Azm242.0000°; N Plg24.0000°,Azm70.0000°; P Plg3.0000°,Azm339.0000°
(228) Near east coast of eastern Honshu
ISC IV 13 14 06 00.3–1.6 35.89N–.04 141.06E–.09 20–6 3.5b 18 0-60
ISCJB IV 13 14 05 56.5–1.6 35.88N–.05 141.30E–.08 8–8 3.4b **¶17200906**
IDC IV 13 14 05 56.7–1.9 35.94N 141.23E 0 3.5,3.4
JMA IV 13 14 06 00.8–.20 35.85N 141.00E 22–1 3.6,3.4
NIED IV 13 14 06 00 35.80N 141.00E 23 3.5W,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.0km az=156.2.
IDC Error ellipse: s-maj=44.2km s-min=20.0km az=62.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ60.00000°,λ-164.00000°. NP2:ϕ_s241.00000°,δ76.00000°,λ-31.00000°. $M_0$1.84000×10^{14}
(135) Near coast of central Chile
ISC IV 13 15 14 42.1–1.3 33.80S–.03 72.05W–.04 28–8 5.1b,5.1s 729 1-176
IDC IV 13 15 14 37.9–.37 33.75S 71.87W 0 5.0s,5.0 **¶16505360**
GUC IV 13 15 14 39.3–.66 33.77S 72.21W 31–4 5.4L,5.0
ISCJB IV 13 15 14 40.3–.74 33.79S–.02 72.12W–.03 24–5 5.1b,5.1s
MOS IV 13 15 14 42.1–1.2 33.73S 71.87W 33 5.3s,5.2b
BJI IV 13 15 14 42.4 34.03S 72.58W 39 5.3s,5.2
GCMT IV 13 15 14 43.0–.10 33.78S 72.27W 31–0 5.4W,5.2
NEIC IV 13 15 14 43.0–1.2 33.75S 71.84W 34–8 5.4L,5.1b
ISC Event type fe.
IDC Error ellipse: s-maj=18.5km s-min=12.3km az=90.0.
GUC Error ellipse: s-maj=1.7km s-min=3.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=4.8.
MOS Error ellipse: s-maj=15.3km s-min=7.5km az=100.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c162; s92,c152; Duration: 1^{s}3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.15±.03 $M_{\theta\theta}$0.12±.02; $M_{\phi\phi}$-1.27±.02; $M_{r\theta}$0.07±.03; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-1.18±.04; Best double couple: NP1:ϕ_s178.00000°,δ67.00000°,λ86.00000°. NP2:ϕ_s9.00000°,δ23.00000°,λ100.00000°. Principal axes:

T 1.6360,Plg68.0000°,Azm80.0000°; N 0.1190,Plg4.0000°,Azm180.0000° ; P -1.7510,Plg22.0000°,Azm272.0000° $M_0$1.69400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.1km az=71.0. Felt [V] at Pichilemu; [IV] at Graneros, Los Andes, Melipilla, Navidad, Paredones, Penaflor, Puente Alto, Quillota, Rancagua, San Antonio, San Bernardo, San Felipe, Santiago, Santo Domingo, Valparaiso, Villa Alemana and Vina del Mar; [III] at Colina, Constitucion, El Quisco, Machali, Petorca, Puchuncavi, Santa Cruz, Talca and Zapallar.

(227) Eastern Honshu

ISC	**IV**	**13 15 19 58.4–1.1**	**37.01N–.04**	**140.64E–.05**	**9–11**		**19**	**0-61**
ISCJB	IV	13 15 19 58.6–.64	37.02N–.03	140.75E–.06	15–6	3.8b		**¶17200910**
JMA	IV	13 15 19 59.1	37.03N	140.66E	6–1	3.2		
IDC	IV	13 15 20 01.9–3.6	36.36N	140.53E	0	3.9,3.6		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.5km az=21.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s247.00000°,δ83.00000°,λ-90.00000°. NP2:ϕ_s67.00000°,δ7.00000°,λ-90.00000°. Principal axes: T Plg38.0000°,Azm337.0000°; N Plg0.0000°,Azm67.0000°; P Plg52.0000° ,Azm157.0000°

IDC Error ellipse: s-maj=70.8km s-min=16.2km az=21.0.

(227) Eastern Honshu

ISC	**IV**	**13 17 03 24.3–1.2**	**37.09N–.03**	**140.59E–.05**	**1–11**	**3.5b**	**20**	**0-57**
IDC	IV	13 17 03 23.0–1.9	37.28N	140.67E	0	3.5,3.4b		**¶17200919**
ISCJB	IV	13 17 03 24.2–1.1	37.06N–.03	140.73E–.06	15–8	3.3b,3.4b		
JMA	IV	13 17 03 24.5	37.06N	140.68E	12–1	3.3,3.4b		

ISC Event type ke.

IDC Error ellipse: s-maj=37.6km s-min=27.0km az=76.0.

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.7km az=12.9.

JMA Event type fe.

(162) South Island

WEL	**IV**	**13 17 39 08.3–.10**	**43.21S**	**172.10E**	**8–1**	**3.6L**		**¶16427209**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(227) Eastern Honshu

ISC	**IV**	**13 17 41 11.6–1.0**	**37.06N–.03**	**140.56E–.04**	**8–8**	**3.6b**	**29**	**0-74**
NIED	IV	13 17 41 00	37.00N	140.60E	5	3.6W		**¶17200921**
IDC	IV	13 17 41 09.9–1.2	37.13N	140.75E	0	3.7,3.7		
ISCJB	IV	13 17 41 11.5–.48	37.04N–.03	140.70E–.05	20–4	3.6b,3.7		
JMA	IV	13 17 41 11.9	37.05N	140.61E	5–1	3.6,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ34.00000°,λ-99.00000°. NP2:ϕ_s115.00000°,δ56.00000°,λ-84.00000°. $M_0$3.08000×10^{14}

IDC Error ellipse: s-maj=32.2km s-min=18.0km az=72.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=16.9.

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**13 18 10 57.3–.92**	**37.02N–.03**	**140.73E–.05**	**13–7**		**20**	**0-61**
ISCJB	IV	13 18 10 56.6–.77	36.99N–.03	140.83E–.07	16–6	3.5b		**¶17200925**
IDC	IV	13 18 10 56.4–2.8	36.86N	140.79E	0	3.5,3.3b		
JMA	IV	13 18 10 57.5	37.02N	140.70E	9–1	3.1,3.3b		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=4.9km az=17.7.

IDC Error ellipse: s-maj=50.6km s-min=29.7km az=29.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 18 16 27.6–1.8**	**37.22N–.04**	**141.78E–.06**	**1–11**	**3.5b**	**25**	**1-61**
NIED	IV	13 18 16 00	37.20N	141.70E	8	3.6W		**¶17200926**
ISCJB	IV	13 18 16 27.8–1.4	37.21N–.04	141.86E–.08	15–9	3.4b		
IDC	IV	13 18 16 27.6–1.1	37.17N	141.79E	0	3.6,3.5		
JMA	IV	13 18 16 29.5–.20	37.19N	141.75E	27–3	3.9,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ48.00000°,λ-39.00000°. NP2:ϕ_s210.00000°,δ62.00000°,λ-131.00000°. $M_0$3.21000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.0km az=22.1.

IDC Error ellipse: s-maj=30.0km s-min=19.7km az=96.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 18 57 01.0–1.2**	**36.77N–.04**	**141.14E–.08**	**41–10**	**3.7b**	**42**	**0-147**
ISCJB	IV	13 18 57 00.2–.64	36.75N–.04	141.12E–.07	49–5	3.7b,2.4s		**¶17200929**
NIED	IV	13 18 57 00	36.80N	141.00E	56	3.9W,2.4s		
JMA	IV	13 18 57 01.4–.10	36.77N	141.03E	48–1	4.0,2.4s		
IDC	IV	13 18 57 02.5–1.9	36.74N	141.06E	55–17	3.8,3.7L		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=18.9.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ41.00000°,λ-97.00000°. NP2:ϕ_s9.00000°,δ50.00000°,λ-84.00000°. $M_0$8.24000×10^{14}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=14.6km s-min=10.8km az=72.0.

(460) Wyoming

ISC	**IV**	**13 19 39 21.5–.90**	**43.58N–.05**	**105.17W–.04**	**0**		**22**	**1-20**
IDC	IV	13 19 39 19.0–2.4	43.21N	105.09W	0	3.4,3.1		**¶17200933**
ISCJB	IV	13 19 39 19.7–.60	43.64N–.06	105.14W–.07	0	3.4,3.1		
NEIC	IV	13 19 39 20.7–.57	43.63N	105.13W	0	3.0L,3.1		

ISC Event type sm.

IDC Error ellipse: s-maj=45.5km s-min=9.6km az=155.0.

ISCJB Event type fm. Error ellipse: s-maj=8.3km s-min=7.2km az=7.5.

NEIC Event type fm. Error ellipse: s-maj=8.4km s-min=6.5km az=192.0. 79 km [49 miles] WSW of Newcastle. Suspected Mining explosion.

(229) Off east coast of Honshu

ISC	**IV**	**13 19 57 23.8–.44**	**39.59N–.03**	**143.56E–.02**	**16–2**	**6.2s,5.8b**	**2086**	**1-165**
NIED	IV	13 19 57 00	39.70N	143.80E	17	6.1W,5.8b		**¶16426887**
JMA	IV	13 19 57 18.5–.20	39.65N	143.81E	0	6.3,5.8b		
ISCJB	IV	13 19 57 21.0–.49	39.58N–.02	143.45E–.01	5–3	6.2s,5.8b		
BJI	IV	13 19 57 21.6	39.65N	143.50E	20	6.5,6.5s		
IDC	IV	13 19 57 21.3–.35	39.54N	143.46E	0	6.0s,6.0		
NEIC	IV	13 19 57 23.0–.00	39.39N	143.76E	15	6.0s,6.0		
GCMT	IV	13 19 57 25.4–.10	39.63N	143.59E	15–0	6.0W,6.0		
MOS	IV	13 19 57 25.9–.90	39.71N	143.36E	33	6.3s,6.0b		
NEIC	IV	13 19 57 25.4–.09	39.58N	143.34E	22	6.1W,6.0W		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ32.00000°,λ85.00000°. NP2:ϕ_s22.00000°,δ58.00000°,λ93.00000°. $M_0$1.39000×10^{18}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=157.5.

IDC Error ellipse: s-maj=10.5km s-min=9.3km az=128.0.

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-0.53 $M_{r\theta}$0.46 $M_{\theta\phi}$-0.08 $M_{\phi r}$1.10 Best double couple: NP1:ϕ_s21.00000° ,δ77.00000°,λ94.00000°. NP2:ϕ_s184.00000°,δ13.00000°,λ74.00000°. Principal axes: T 1.3800,Plg57.0000°,Azm296.0000°; N -0.1000,Plg3.0000°,Azm200.0000° ; P -1.2800,Plg31.0000°,Azm107.0000° $M_0$1.30000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c274; s138,c466;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.81±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$-0.85±.01; $M_{r\theta}$0.42±.01; $M_{\theta\phi}$-0.18±.02; Best double couple: NP1:ϕ_s19.00000°,δ72.00000°,λ95.00000°. NP2:ϕ_s182.00000° ,δ18.00000°,λ74.00000°. Principal axes: T 1.4370,Plg62.0000°,Azm297.0000° ; N 0.0590,Plg5.0000°,Azm197.0000°; P -1.4960,Plg27.0000°,Azm105.0000° $M_0$1.46600×10^{18}

MOS Error ellipse: s-maj=5.6km s-min=3.4km az=103.2.

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=141.0. Felt at Misawa, Soma and Yokohama. Also felt at Obihiro, Hokkaido. Recorded [3 JMA] in Akita, Iwate, Miyagi and Yamagata, Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s12 Moment tensor: Scale 10^{18} Nm; M_{rr}0.73 $M_{\theta\theta}$0.03 $M_{\phi\phi}$-0.77 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.18 $M_{\phi r}$1.32 Best double couple: NP1: ϕ_s178.00000°,δ15.00000°,λ63.00000°. NP2:ϕ_s25.00000°,δ77.00000°,λ97.00000°. Principal axes: T 1.6600,Plg58.0000°,Azm304.0000°; N 0.0200,Plg7.0000°,Azm204.0000° ; P -1.6800,Plg31.0000°,Azm110.0000° $M_0$1.70000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm280.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm100.0000°

(229) Off east coast of Honshu

ISC	**IV**	**13 20 02 30.3–2.3**	**39.54N–.04**	**143.49E–.04**	**15–14**	**4.9b**	**108**	**1-131**
IDC	IV	13 20 02 28.8–.58	39.57N	143.37E	0	4.8,4.7		**¶16426888**
JMA	IV	13 20 02 29.9–.20	39.57N	143.48E	15	5.3,4.7		
ISCJB	IV	13 20 02 29.7–1.1	39.52N–.03	143.51E–.04	19–7	4.8b,4.7		
BJI	IV	13 20 02 30.0	39.90N	143.10E	5	5.8s,5.6b		
NEIC	IV	13 20 02 31.0–3.2	39.57N	143.41E	15–20	5.0b,5.6b		
MOS	IV	13 20 02 30.9–.98	39.56N	143.47E	26	5.0b,5.6b		

ISC Event type se.

IDC Error ellipse: s-maj=15.4km s-min=12.3km az=122.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=139.6.

NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.2km az=115.0.

MOS Error ellipse: s-maj=9.8km s-min=6.8km az=85.7.

(229) Off east coast of Honshu

ISC	**IV**	**13 20 32 20.9–.51**	**39.70N–.03**	**143.30E–.03**	**18–2**	**5.8b,5.7s**	**1515**	**1-158**
NIED	IV	13 20 32 00	39.60N	143.50E	14	5.5W,5.7s		**¶16426890**
IDC	IV	13 20 32 17.9–.36	39.57N	143.34E	0	5.5,5.5b		
ISCJB	IV	13 20 32 18.0–.69	39.62N–.02	143.28E–.02	7–4	5.7s,5.7b		
JMA	IV	13 20 32 20.0–.20	39.65N	143.47E	33	5.7,5.7b		
BJI	IV	13 20 32 20.5	39.58N	142.98E	20	6.1b,5.7		
MOS	IV	13 20 32 21.6–.88	39.81N	143.20E	25	6.0b,5.7s		
GCMT	IV	13 20 32 21.4–.10	39.64N	143.48E	24	5.5W,5.7s		
NEIC	IV	13 20 32 21.4–.28	39.62N	143.19E	18–1	5.7b,5.7s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ20.00000°,λ50.00000°. NP2:ϕ_s37.00000°,δ75.00000°,λ103.00000°. $M_0$2.14000×10^{17}

IDC Error ellipse: s-maj=10.4km s-min=9.1km az=128.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=159.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=5.7km s-min=3.4km az=103.7.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s77,c127; s114,c237;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40±.03 $M_{\theta\theta}$-0.17±.02; $M_{\phi\phi}$-1.23±.02; $M_{r\theta}$0.72±.03; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$1.45±.03; Best double couple: NP1:ϕ_s24.00000° ,δ70.00000°,λ95.00000°. NP2:ϕ_s189.00000°,δ21.00000°,λ76.00000°. Principal axes: T 2.1680,Plg65.0000°,Azm302.0000°; N -0.1130,Plg5.0000°,Azm202.0000° ; P -2.0570,Plg25.0000°,Azm110.0000° $M_0$2.11300×10^{17}

NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.3km az=146.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 20 39 31.8–.82**	**37.40N–.03**	**141.31E–.06**	**20–6**	**4.2b**	**51**	**0-82**
ISCJB	IV	13 20 39 31.9–.69	37.37N–.03	141.38E–.06	36–6	4.1b		**¶16427210**
JMA	IV	13 20 39 33.4–.10	37.42N	141.27E	31–1	4.1		
NEIC	IV	13 20 39 34.6–.94	37.37N	141.33E	43–9	4.4b		
IDC	IV	13 20 39 36.5–2.0	37.31N	141.21E	62–19	4.1,3.9		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=5.9.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=8.8km az=100.0. Recorded [3 JMA] in Fukushima.

IDC Error ellipse: s-maj=15.3km s-min=12.1km az=78.0.

(227) Eastern Honshu

ISC	**IV**	**13 21 12 57.6–.91**	**37.01N–.03**	**140.61E–.05**	**16–9**		**17**	**0-57**
ISCJB	IV	13 21 12 57.8–.60	36.99N–.03	140.68E–.06	16–7	3.4b		**¶17200949**
JMA	IV	13 21 12 58.1	37.01N	140.60E	9–1	3.2		
IDC	IV	13 21 12 58.1–2.2	36.71N	140.63E	0	3.7,3.7		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.3km az=9.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s290.00000°,δ65.00000°,λ-84.00000°. NP2:ϕ_s95.00000°,δ25.00000°,λ-103.00000°. Principal axes: T Plg20.0000°,Azm15.0000°; N Plg6.0000°,Azm107.0000°; P Plg69.0000° ,Azm212.0000°

IDC Error ellipse: s-maj=38.4km s-min=24.7km az=64.0.

(229) Off east coast of Honshu

ISC	**IV**	**13 21 36 54.1–1.1**	**39.52N–.04**	**143.37E–.03**	**16–6**	**4.8b,4.5s**	**398**	**1-146**
NIED	IV	13 21 36 00	39.50N	143.50E	23	4.7W,4.5s		**¶16426891**
ISCJB	IV	13 21 36 51.7–.88	39.51N–.03	143.39E–.03	7–5	4.7b,4.5s		
IDC	IV	13 21 36 52.0–.58	39.49N	143.35E	0	4.6,4.5		
JMA	IV	13 21 36 53.2–.20	39.49N	143.52E	29	4.7,4.5		
BJI	IV	13 21 36 53.6	39.54N	143.15E	19	5.2b,4.8b		
MOS	IV	13 21 36 55.9–.98	39.66N	143.23E	30	5.0b,4.4s		
NEIC	IV	13 21 36 55.4–.75	39.52N	143.20E	18–4	4.8b,4.4s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ35.00000°,λ81.00000°. NP2:ϕ_s19.00000°,δ56.00000°,λ96.00000°. $M_0$1.37000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=146.1.

IDC Error ellipse: s-maj=14.5km s-min=12.0km az=120.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=6.8km s-min=4.1km az=108.5.

NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=139.0.

(227) Eastern Honshu

ISC	**IV**	**13 21 43 07.1–.94**	**36.99N–.03**	**140.59E–.04**	**12–6**	**4.1b**	**46**	**0-147**
IDC	IV	13 21 43 05.1–.61	36.96N	140.57E	0	4.1,4.0		**¶602557289**
ISCJB	IV	13 21 43 06.5–.44	36.99N–.03	140.63E–.05	23–3	4.0b,4.0		
JMA	IV	13 21 43 07.1	37.00N	140.60E	9–1	4.1,4.0		
NEIC	IV	13 21 43 10.8–.93	36.96N	140.49E	39–8	4.5b,4.0		

ISC Event type se.

IDC Error ellipse: s-maj=14.8km s-min=11.7km az=142.0.

ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=24.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s213.00000°,δ47.00000°,λ-99.00000°. NP2:ϕ_s46.00000°,δ43.00000°,λ-80.00000°. Principal axes: T Plg2.0000°,Azm309.0000°; N Plg7.0000°,Azm219.0000°; P Plg83.0000° ,Azm55.0000°

NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.3km az=118.0. Recorded [3 JMA] in Ibaraki.

(40) California-Nevada border region

ISC	**IV**	**13 22 10 08.8–1.1**	**38.33N–.02**	**118.74W–.02**	**0–7**	**4.3b**	**157**	**0-149**
NEIC	IV	13 22 10 08.3	38.37N	118.75W	16	4.5b,4.4L		**¶16426892**
IDC	IV	13 22 10 08.9–.57	38.32N	118.77W	0	4.2,4.1		

ISC Event type fe.

NEIC Event type fe. Felt [IV] at Hawthorne and [II] at Yerington. Also felt at Carson City, Silver Springs and Washoe Valley. Felt at Sacramento, California. After REN. Moment Tensor Solution. s44 Moment tensor: Scale 10^{15}Nm; M_{rr}-3.93 $M_{\theta\theta}$0.03 $M_{\phi\phi}$3.90 $M_{r\theta}$0.21 $M_{\theta\phi}$0.28 $M_{\phi r}$-0.82 Best double couple: NP1:ϕ_s188.00000°,δ39.00000°,λ-84.00000°. NP2:ϕ_s0.00000° ,δ51.00000°,λ-95.00000°. Principal axes: T 4.0000,Plg6.0000°,Azm94.0000° ; N 0.0300,Plg4.0000°,Azm3.0000°; P -4.0300,Plg83.0000°,Azm241.0000° $M_0$4.00000×10^{15}

IDC Error ellipse: s-maj=10.3km s-min=5.3km az=173.0.

(40) California-Nevada border region

ISC	**IV**	**13 22 16 08.0–1.2**	**38.44N–.03**	**118.73W–.03**	**7–11**		**43**	**0-31**
NEIC	IV	13 22 16 08.7	38.39N	118.74W	15	4.2L,4.1W		**¶16587502**
IDC	IV	13 22 16 09.8–1.0	38.38N	118.75W	0	4.1L,3.8		

ISC Event type fe.

NEIC Event type fe. Felt at Hawthorne. After REN. Moment Tensor Solution. s18 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.41 $M_{\theta\theta}$-1.12 $M_{\phi\phi}$1.52 $M_{r\theta}$-0.68 $M_{\theta\phi}$0.20 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s45.00000°,δ65.00000°,λ-20.00000°. NP2:ϕ_s144.00000°,δ72.00000°,λ-154.00000°. Principal axes: T 1.5500,Plg5.0000°,Azm273.0000°; N 0.0000,Plg58.0000°,Azm176.0000° ; P -1.5500,Plg31.0000°,Azm6.0000° $M_0$1.60000×10^{15}

IDC Error ellipse: s-maj=10.6km s-min=6.4km az=19.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 22 35 51.6–.61**	**36.79N–.02**	**140.52E–.03**	**17–3**	**5.2b,4.3s**	**998**	**0-162**
NIED	IV	13 22 35 00	36.80N	140.60E	5	4.9W,4.3s		**¶602557269**
BJI	IV	13 22 35 47.5	36.65N	140.94E	26	5.0b,4.7b		
JMA	IV	13 22 35 49.7	36.78N	140.57E	9–1	5.1,4.7b		
ISCJB	IV	13 22 35 49.5–.42	36.80N–.02	140.50E–.02	10–2	5.1b,4.4s		
IDC	IV	13 22 35 49.1–.29	36.83N	140.44E	0	5.0,5.0b		
MOS	IV	13 22 35 53.8–1.2	36.98N	140.37E	35	5.3b,4.1s		
NEIC	IV	13 22 35 53.3–.69	36.80N	140.37E	25–4	5.2b,4.1s		
GCMT	IV	13 22 35 53.3–.30	36.89N	140.49E	15–1	5.0W,4.1s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ29.00000°,λ-109.00000°. NP2:ϕ_s155.00000°,δ63.00000°,λ-80.00000°. $M_0$2.41000×10^{16}

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ51.00000°,λ-119.00000°. NP2:ϕ_s146.00000°,δ47.00000°,λ-59.00000°. Principal axes: T Plg2.0000°,Azm35.0000°; N Plg22.0000°,Azm304.0000°; P Plg68.0000°

,Azm130.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=141.5.
IDC Error ellipse: s-maj=9.5km s-min=7.6km az=117.0.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=137.0. Recorded [4 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c30; s98,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.58±.22 $M_{\theta\theta}$1.84±.14; $M_{\phi\phi}$1.74±.14; $M_{r\theta}$0.11±.42; $M_{\theta\phi}$-1.41±.07; $M_{\phi r}$0.33±.53; Best double couple: NP1:ϕ_s139.00000°,δ46.00000°,λ-84.00000°. NP2:ϕ_s309.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 3.2040,Plg1.0000°,Azm224.0000°; N 0.4050,Plg5.0000°,Azm314.0000°; P -3.6090,Plg85.0000°,Azm119.0000° $M_0$3.40700×10^{16}

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 23 01 16.3–.95**	**36.73N–.04**	**140.62E–.06**	**12–6**	**3.3b**	**16**	**0-78**
IDC	IV	13 23 01 14.6–1.2	36.55N	140.59E	0	4.1s,4.1		¶600587027
ISCJB	IV	13 23 01 15.6–.66	36.72N–.04	140.65E–.07	16–6	4.0s,3.2b		
JMA	IV	13 23 01 16.4	36.77N	140.58E	9–1	3.7,3.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=23.1km s-min=15.5km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.8km az=26.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s339.00000°,δ52.00000°,λ-100.00000°. NP2:ϕ_s175.00000°,δ40.00000°,λ-78.00000°. Principal axes: T Plg6.0000°,Azm76.0000°; N Plg8.0000°,Azm345.0000°; P Plg80.0000°,Azm203.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**13 23 05 30.3–.87**	**37.14N–.06**	**141.26E–.09**	**22–5**	**3.7b**	**27**	**0-147**
ISCJB	IV	13 23 05 28.5–1.4	37.15N–.06	141.40E–.08	20–8	3.6b		¶17200961
JMA	IV	13 23 05 30.1–.10	37.12N	141.26E	27–1	3.7		
IDC	IV	13 23 05 34.4–4.2	37.11N	141.07E	53–38	3.7,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=8.3km az=37.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.1km s-min=24.2km az=57.0.

(227) Eastern Honshu

ISC	**IV**	**13 23 43 40.3–.89**	**37.10N–.03**	**140.80E–.05**	**25–6**	**3.6b**	**28**	**0-64**
IDC	IV	13 23 43 36.4–1.2	37.27N	141.07E	0	3.6,3.5b		¶17200964
ISCJB	IV	13 23 43 40.5–.54	37.07N–.03	140.73E–.05	26–4	3.5b,3.5b		
JMA	IV	13 23 43 41.4	37.07N	140.65E	15–1	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=24.2km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=16.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s37.00000°,δ65.00000°,λ68.00000°. NP2:ϕ_s261.00000°,δ33.00000°,λ129.00000°. Principal axes: T Plg63.0000°,Azm270.0000°; N Plg20.0000°,Azm47.0000°; P Plg17.0000°,Azm143.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 00 10 06.6–.53**	**38.30N–.04**	**142.28E–.04**	**24–3**	**4.3b,3.7s**	**124**	**1-89**
NIED	IV	14 00 10 00	38.30N	142.20E	23	4.2W,3.7s		¶600587097
ISCJB	IV	14 00 10 03.2–1.2	38.25N–.03	142.38E–.03	15–7	4.2b,3.8s		
MOS	IV	14 00 10 05.1–1.2	38.36N	142.28E	26	4.5b,3.8s		
NEIC	IV	14 00 10 06.6–1.7	38.29N	142.22E	24–12	4.5b,3.8s		
JMA	IV	14 00 10 06.7–.20	38.35N	142.25E	35–3	4.2,3.8s		
IDC	IV	14 00 10 07.8–.61	38.26N	142.17E	30–3	4.2,4.1L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ33.00000°,λ-113.00000°. NP2:ϕ_s308.00000°,δ60.00000°,λ-76.00000°. $M_0$2.13000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.6km az=39.8.
MOS Error ellipse: s-maj=9.9km s-min=5.9km az=90.7.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.3km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=11.2km az=109.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 01 00 07.3–.10**	**38.39N**	**141.77E**	**58–1**	**3.7**		
NIED	IV	14 01 00 00	38.40N	141.80E	56	3.7W		¶600587134

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ26.00000°,λ58.00000°. NP2:ϕ_s287.00000°,δ68.00000°,λ104.00000°. $M_0$4.06000×10^{14}

(227) Eastern Honshu

ISC	**IV**	**14 01 02 13.3–.91**	**37.01N–.03**	**140.63E–.04**	**14–7**	**3.8b**	**23**	**0-57**
NIED	IV	14 01 02 00	37.00N	140.60E	5	3.4W		¶600587135
IDC	IV	14 01 02 11.1–2.1	36.98N	140.79E	0	3.7,3.6b		
ISCJB	IV	14 01 02 13.3–.56	37.00N–.03	140.70E–.05	16–6	3.6b,3.6b		
JMA	IV	14 01 02 13.5	37.02N	140.62E	7–1	3.7,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ29.00000°,λ-82.00000°. NP2:ϕ_s128.00000°,δ61.00000°,λ-94.00000°. $M_0$1.33000×10^{14}
IDC Error ellipse: s-maj=40.0km s-min=29.1km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=19.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s113.00000°,δ58.00000°,λ-84.00000°. NP2:ϕ_s282.00000°,δ32.00000°,λ-99.00000°. Principal axes: T Plg13.0000°,Azm199.0000°; N Plg5.0000°,Azm290.0000°; P Plg76.0000°,Azm40.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 01 06 48.6–.69**	**38.55N–.04**	**141.69E–.06**	**54–5**	**3.9b**	**56**	**0-89**
NIED	IV	14 01 06 00	38.60N	141.60E	59	4.1W		¶16427213
ISCJB	IV	14 01 06 47.3–.50	38.56N–.03	141.69E–.06	60–3	3.9b		
JMA	IV	14 01 06 48.7–.10	38.56N	141.60E	54–1	4.1		
IDC	IV	14 01 06 48.8–.71	38.56N	141.59E	55–7	3.9,3.7		
NEIC	IV	14 01 06 49.6–.84	38.59N	141.64E	63–7	4.3b,3.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ80.00000°,λ170.00000°. NP2:ϕ_s91.00000°,δ80.00000°,λ10.00000°. $M_0$1.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.4km az=22.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=11.8km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=12.0km s-min=6.8km az=123.0. Recorded [3 JMA] in Miyagi.

(229) Off east coast of Honshu

ISC	**IV**	**14 01 33 22.2–.58**	**39.81N–.04**	**143.31E–.04**	**23–3**	**4.7b,4.3s**	**313**	**1-146**
NIED	IV	14 01 33 00	39.80N	143.60E	23	4.7W,4.3s		¶16427215
JMA	IV	14 01 33 16.9–.20	39.75N	143.57E	0	4.6,4.3s		
IDC	IV	14 01 33 18.4–.53	39.72N	143.38E	0	4.5,4.5		
MOS	IV	14 01 33 21.2–1.0	39.94N	143.24E	21	4.9b,4.1s		
ISCJB	IV	14 01 33 23.0–.98	39.91N–.04	143.10E–.04	29–6	4.7b,4.3s		
BJI	IV	14 01 33 25.3	39.72N	142.92E	43	5.0b,4.8b		
NEIC	IV	14 01 33 26.6–.78	40.01N	142.87E	38–7	4.7b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ32.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ58.00000°,λ94.00000°. $M_0$1.37000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=112.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=107.8.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.0km az=138.5.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.8km az=148.0.

(76) Off coast of central America

ISC	**IV**	**14 01 56 30.6–.64**	**12.66N–.05**	**87.96W–.04**	**68–5**	**4.4b**	**239**	**1-148**
ISCJB	IV	14 01 56 29.6–.37	12.61N–.04	87.98W–.03	72–2	4.3b		¶16437940
CASC	IV	14 01 56 30.2–1.1	12.64N	88.00W	64–12	4.4b,4.1L		
IDC	IV	14 01 56 30.9–.75	12.81N	87.76W	68–6	4.0,4.0		
NEIC	IV	14 01 56 33.7–.86	12.81N	88.01W	84–9	4.4,4.4b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.2km az=33.8.
CASC Error ellipse: s-maj=6.7km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=26.8km s-min=9.3km az=51.0.
NEIC Event type fe. Error ellipse: s-maj=14.4km s-min=9.0km az=61.0. Felt [I] at La Union.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 02 24 09.8–1.0**	**36.95N–.03**	**140.66E–.04**	**8–6**	**3.9b**	**45**	**0-147**
NIED	IV	14 02 24 00	37.00N	140.70E	5	3.7W		¶16532022
ISCJB	IV	14 02 24 08.8–.62	36.91N–.02	140.82E–.04	15–4	3.9b		
IDC	IV	14 02 24 08.7–.65	36.93N	140.66E	0	4.1,4.0L		
JMA	IV	14 02 24 09.9	36.95N	140.67E	7–1	3.9,4.0L		
NEIC	IV	14 02 24 09.7–.41	36.87N	140.73E	10	4.2b,4.0L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ28.00000°,λ-77.00000°. NP2:ϕ_s311.00000°,δ63.00000°,λ-97.00000°. $M_0$4.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.6km az=23.6.
IDC Error ellipse: s-maj=20.6km s-min=15.1km az=111.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s284.00000°,δ75.00000°,λ-94.00000°. NP2:ϕ_s121.00000°,δ16.00000°,λ-74.00000°. Principal axes: T Plg30.0000°,Azm18.0000°; N Plg4.0000°,Azm286.0000°; P Plg60.0000°,Azm188.0000°
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.8km az=109.0.

(227) Eastern Honshu

ISC	**IV**	**14 03 04 06.2–.75**	**36.44N–.05**	**139.88E–.06**	**89–6**	**3.7b**	**38**	**0-117**
NIED	IV	14 03 04 00	36.40N	139.90E	83	3.9W		¶17200981
ISCJB	IV	14 03 04 05.2–.39	36.44N–.04	139.90E–.05	94–3	3.7b		
IDC	IV	14 03 04 06.8–1.0	36.43N	139.82E	94–11	3.8,3.7		
JMA	IV	14 03 04 06.5–.10	36.42N	139.85E	84–1	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ24.00000°,λ-66.00000°. NP2:ϕ_s158.00000°,δ68.00000°,λ-100.00000°. $M_0$7.33000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=6.0km az=19.9.
IDC Error ellipse: s-maj=15.9km s-min=9.6km az=73.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s148.00000°,δ66.00000°,λ-104.00000°. NP2: ϕ_s0.00000°,δ28.00000°,λ-61.00000°. Principal axes: T Plg20.0000°,Azm249.0000°; N Plg13.0000°,Azm154.0000°; P Plg66.0000°,Azm33.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 03 08 58.8–.40**	**37.02N–.02**	**140.78E–.03**	**17–2**	**5.4b,4.5s**	**1412**	**0-165**
NIED	IV	14 03 08 00	37.00N	140.80E	8	5.0W,4.5s		¶16427219
BJI	IV	14 03 08 56.7	36.99N	141.04E	29	5.0b,4.9b		
NEIC	IV	14 03 08 58.0–.08	36.99N	140.60E	10	5.4b,4.9b		
IDC	IV	14 03 08 57.8–2.2	37.03N	140.66E	8–13	5.2,5.2		
JMA	IV	14 03 08 58.3	36.98N	140.77E	11–1	5.4,5.2		
GCMT	IV	14 03 08 58.0–.20	37.02N	140.74E	12	5.1W,5.2		
MOS	IV	14 03 08 58.8–.88	37.15N	140.65E	21	5.6b,4.4s		
ISCJB	IV	14 03 08 58.3–.35	37.02N–.02	140.69E–.02	20–2	5.3b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ46.00000°,λ-66.00000°. NP2:ϕ_s227.00000°,δ49.00000°,λ-113.00000°. $M_0$3.80000×10^{16}
NEIC Event type fe. Felt at Aizubange, Narita and Utsunomiya. Recorded [4 JMA] in Fukushima and Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s102.00000°,δ60.00000°,λ-56.00000°. NP2:ϕ_s228.00000°,δ44.00000°,λ-135.00000°. Principal axes: T Plg9.0000°,Azm168.0000°; N Plg29.0000°,Azm263.0000°; P Plg59.0000°,Azm63.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c97; s91,c165;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.61±.09 $M_{\theta\theta}$3.70±.08; $M_{\phi\phi}$-0.09±.09; $M_{r\theta}$-0.35±.21; $M_{\theta\phi}$2.02±.07; $M_{\phi r}$3.21±.27; Best double couple: NP1:ϕ_s216.00000°,δ61.00000°,λ-127.00000°. NP2:ϕ_s94.00000°,δ46.00000°,λ-43.00000°. Principal axes: T 4.7120,Plg8.0000°,Azm332.0000°; N 0.9920,Plg32.0000°,Azm237.0000°; P -5.7050,Plg57.0000°,Azm75.0000° $M_0$5.20900×10^{16}
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 03 13 59.2–1.8**	**38.96N–.04**	**142.39E–.07**	**26–13**	**4.1b**	**37**	**1-88**
NIED	IV	14 03 13 00	39.00N	142.50E	11	4.0W		¶600587212
ISCJB	IV	14 03 13 59.4–.86	38.98N–.04	142.45E–.08	42–8	4.1b,3.9s		
JMA	IV	14 03 13 59.0–.10	39.02N	142.46E	29–2	4.2,3.9s		
IDC	IV	14 03 14 01.9–2.0	38.91N	142.44E	47–20	4.0,4.0		
NEIC	IV	14 03 14 02.5–.86	38.98N	142.40E	53–8	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ33.00000°,λ-126.00000°. NP2:ϕ_s138.00000°,δ64.00000°,λ-69.00000°. $M_0$1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.4km az=22.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=12.9km az=101.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=6.4km az=119.0.

(238) Ryukyu Islands

JMA	**IV**	**14 03 39 26.4–.20**	**26.23N**	**127.26E**	**35–2**	**3.7**		
								¶600587224

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 04 43 24.2–.79**	**37.62N–.05**	**141.60E–.07**	**50–7**	**3.8b**	**36**	**1-146**
NIED	IV	14 04 43 00	37.60N	141.60E	41	3.9W		¶600587245
ISCJB	IV	14 04 43 23.0–.88	37.61N–.04	141.62E–.09	55–7	3.8b		
IDC	IV	14 04 43 24.6–.76	37.59N	141.51E	54–7	3.8,3.7		
JMA	IV	14 04 43 24.1–.10	37.63N	141.59E	41–2	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ39.00000°,λ109.00000°. NP2:ϕ_s241.00000°,δ53.00000°,λ75.00000°. $M_0$9.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.4km az=20.3.
IDC Error ellipse: s-maj=22.1km s-min=14.8km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**IV**	**14 04 46 31.7–.45**	**39.74N–.03**	**143.00E–.04**	**19–1**	**4.9b,4.4s**	**399**	**1-145**
NIED	IV	14 04 46 00	39.70N	143.30E	20	4.7W,4.4s		¶16427222
JMA	IV	14 04 46 29.9–.30	39.65N	143.31E	22–5	4.7,4.4s		
MOS	IV	14 04 46 31.4–.84	39.88N	142.96E	22	5.1b,4.4s		
IDC	IV	14 04 46 31.7–5.1	39.60N	143.23E	27–34	4.6,4.5		
BJI	IV	14 04 46 31.2	39.58N	142.86E	26	5.0b,4.9b		
ISCJB	IV	14 04 46 32.0–.93	39.79N–.03	143.00E–.04	29–6	4.8b,4.3s		
NEIC	IV	14 04 46 33.8–.70	39.67N	143.01E	36–6	4.8b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ18.00000°,λ77.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ94.00000°. $M_0$1.34000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.1km az=108.4.
IDC Error ellipse: s-maj=13.7km s-min=10.5km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=41.4.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=132.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 04 54 48.1–.10**	**37.83N**	**141.81E**	**47–2**	**3.8**		
								¶600587250

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 04 59 38.8–1.1**	**36.88N–.03**	**140.69E–.05**	**12–8**		**18**	**0-61**
ISCJB	IV	14 04 59 37.9–.76	36.84N–.04	140.78E–.07	20–7	3.8b		¶17200988
IDC	IV	14 04 59 38.8–3.5	36.54N	140.66E	0	3.9,3.6		
JMA	IV	14 04 59 38.7	36.88N	140.70E	5–1	3.6,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.3km az=19.1.
IDC Error ellipse: s-maj=70.0km s-min=18.1km az=16.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s176.00000°,δ49.00000°,λ-114.00000°. NP2:ϕ_s30.00000°,δ47.00000°,λ-65.00000°. Principal axes: T Plg1.0000°,Azm283.0000°; N Plg18.0000°,Azm193.0000°; P Plg72.0000°,Azm16.0000°

(227) Eastern Honshu

JMA	**IV**	**14 05 14 17.9**	**37.02N**	**140.67E**	**12–1**	**3.5**		
								¶600587263

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s6.00000°,δ89.00000°,λ63.00000°. NP2:ϕ_s274.00000°,δ27.00000°,λ178.00000°. Principal axes: T Plg40.0000°,Azm251.0000°; N Plg27.0000°,Azm6.0000°; P Plg38.0000°,Azm120.0000°

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 05 49 00.5**	**36.98N**	**140.60E**	**8–1**	**3.5**		
								¶600587298

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 06 03 13.8–.82**	**38.33N–.04**	**141.54E–.07**	**66–6**	**3.9b**	**43**	**0-146**
NIED	IV	14 06 03 00	38.30N	141.50E	65	4.0W		¶600587310
ISCJB	IV	14 06 03 13.0–.54	38.32N–.04	141.57E–.07	72–4	3.7b		

JMA IV 14 06 03 14.2 38.33N 141.49E 66–1 3.5
IDC IV 14 06 03 17.8–2.4 38.28N 141.40E 104–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ36.00000°,λ83.00000°. NP2:ϕ_s5.00000°,δ55.00000°,λ95.00000°. $M_0$1.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.8km az=23.0.
JMA Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=14.1km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 06 07 07.5–.43**	**36.73N–.04**	**141.60E–.04**	**24–2**	**5.1s,4.9b**	**342**	**1-152**
NIED	IV	14 06 07 00	36.70N	141.60E	26	4.3W,4.9b		**¶16437942**
IDC	IV	14 06 07 03.7–.43	36.71N	141.67E	0	5.0s,4.9		
MOS	IV	14 06 07 05.9–.94	36.69N	141.62E	24	4.7b,4.9		
ISCJB	IV	14 06 07 06.9–.85	36.69N–.03	141.56E–.03	29–5	5.0s,4.8b		
JMA	IV	14 06 07 06.3–.30	36.74N	141.64E	33–4	4.3,4.8b		
BJI	IV	14 06 07 07.2	36.41N	141.64E	44	5.5s,5.2		
NEIC	IV	14 06 07 09.4–.43	36.69N	141.58E	36–4	5.1b,5.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ78.00000°,λ172.00000°. NP2:ϕ_s12.00000°,δ82.00000°,λ13.00000°. $M_0$3.51000×10^{15}
IDC Error ellipse: s-maj=13.3km s-min=10.4km az=107.0.
MOS Error ellipse: s-maj=8.6km s-min=6.0km az=101.9.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=138.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=128.0.

(229) Off east coast of Honshu

ISC	**IV**	**14 06 08 49.1–.41**	**35.65N–.03**	**141.90E–.03**	**20–1**	**5.5s,5.3b**	**622**	**1-166**
NIED	IV	14 06 08 00	35.50N	142.50E	5	5.7W,5.3b		**¶16427228**
JMA	IV	14 06 08 42.6–.30	35.52N	142.47E	28	6.0,5.3b		
IDC	IV	14 06 08 44.4–.45	35.46N	142.26E	0	5.2,5.2s		
BJI	IV	14 06 08 45.1	35.65N	141.80E	10	6.0s,5.9		
ISCJB	IV	14 06 08 47.7–.13	35.56N–.02	141.92E–.02	22	5.6s,5.1b		
GCMT	IV	14 06 08 47.3–.10	35.50N	142.25E	12	5.6W,5.1b		
NEIC	IV	14 06 08 47.3–.16	35.56N	141.88E	10	5.8W,5.7W		
NEIC	IV	14 06 08 48.0–.00	35.08N	141.87E	15	5.8W,5.7W		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ19.00000°,λ81.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ93.00000°. $M_0$4.17000×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=10.3km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=160.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c179; s129,c338;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36±.02 $M_{\theta\theta}$-0.34±.02; $M_{\phi\phi}$-2.02±.02; $M_{r\theta}$0.91±.07; $M_{\theta\phi}$-0.79±.02; $M_{\phi r}$2.38±.07; Best double couple: NP1:ϕ_s21.00000°,δ69.00000°,λ90.00000°. NP2:ϕ_s202.00000°,δ21.00000°,λ91.00000°. Principal axes:
T 3.4770,Plg66.0000°,Azm290.0000°; N -0.0220,Plg0.0000°,Azm21.0000°
; P -3.4520,Plg24.0000°,Azm111.0000° $M_0$3.46400×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=140.0. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17}Nm; M_{rr}3.65 $M_{\theta\theta}$-1.72 $M_{\phi\phi}$-1.93 $M_{r\theta}$2.00 $M_{\theta\phi}$-2.07 $M_{\phi r}$4.16 Best double couple: NP1:ϕ_s237.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s30.00000°,δ71.00000°,λ80.00000°. Principal axes: T 5.9600,Plg63.0000°,Azm284.0000°
; N 0.0200,Plg9.0000°,Azm33.0000°; P -5.9800,Plg25.0000°,Azm127.0000°
$M_0$6.00000×10^{17}
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}1.20 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-1.30 $M_{r\theta}$1.20 $M_{\theta\phi}$-0.90 $M_{\phi r}$3.90 Best double couple: NP1:ϕ_s16.00000°,δ80.00000°,λ85.00000°. NP2:ϕ_s223.00000°,δ11.00000°,λ117.00000°. Principal axes:
T 4.1000,Plg54.0000°,Azm280.0000°; N 0.6000,Plg4.0000°,Azm17.0000°
; P -4.6000,Plg35.0000°,Azm110.0000° $M_0$4.00000×10^{17}

(227) Eastern Honshu

JMA	**IV**	**14 07 26 07.7**	**37.00N**	**140.74E**	**7–1**	**3.0**		
								¶600587361

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 07 31 59.8–.59**	**37.13N–.04**	**141.49E–.05**	**31–3**	**3.8b**	**43**	**1-147**
ISCJB	IV	14 07 31 58.9–.83	37.11N–.03	141.52E–.07	39–8	3.7b		**¶16427232**
JMA	IV	14 07 32 00.5–.10	37.16N	141.40E	44–1	4.0		
NIED	IV	14 07 32 00	37.20N	141.50E	53	4.1W		
IDC	IV	14 07 32 01.6–.57	37.11N	141.36E	45–6	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.3km az=14.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ21.00000°,λ139.00000°. NP2:ϕ_s17.00000°,δ76.00000°,λ74.00000°. $M_0$1.78000×10^{15}
IDC Error ellipse: s-maj=18.2km s-min=9.5km az=112.0.

(227) Eastern Honshu

ISC	**IV**	**14 07 41 32.1–1.0**	**37.02N–.04**	**140.69E–.07**	**9–9**	**3.5b**	**15**	**0-61**
ISCJB	IV	14 07 41 30.9–.88	37.00N–.04	140.84E–.09	17–6	3.5b		**¶17200995**
IDC	IV	14 07 41 30.1–2.0	36.99N	140.81E	0	3.6,3.4		
JMA	IV	14 07 41 31.7	37.03N	140.65E	8–1	3.3,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.9km az=14.1.
IDC Error ellipse: s-maj=41.1km s-min=25.0km az=48.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ66.00000°,λ-100.00000°. NP2:ϕ_s51.00000°,δ26.00000°,λ-69.00000°.
Principal axes: T Plg20.0000°,Azm305.0000°; N Plg9.0000°,Azm212.0000°; P Plg68.0000°
,Azm98.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 08 14 50.8–1.0**	**37.03N–.04**	**140.55E–.04**	**10–7**	**4.0b**	**31**	**0-61**
NIED	IV	14 08 14 00	37.00N	140.70E	5	3.8W		**¶16587510**
IDC	IV	14 08 14 48.9–1.3	37.04N	140.75E	0	3.8,3.8		
JMA	IV	14 08 14 51.7	36.96N	140.69E	11–1	3.9,3.8		
NEIC	IV	14 08 14 56.5–1.0	36.95N	140.54E	54–12	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ24.00000°,λ-99.00000°. NP2:ϕ_s327.00000°,δ66.00000°,λ-86.00000°. $M_0$5.72000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=23.3km az=77.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ55.00000°,λ-97.00000°. NP2:ϕ_s168.00000°,δ36.00000°,λ-81.00000°.
Principal axes: T Plg10.0000°,Azm71.0000°; N Plg5.0000°,Azm340.0000°; P Plg79.0000°
,Azm221.0000°
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=10.5km az=116.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 08 47 10.6–1.4**	**36.58N–.04**	**141.84E–.04**	**11–8**	**4.6b,3.8s**	**192**	**1-147**
NIED	IV	14 08 47 00	36.60N	141.80E	29	4.4W,3.8s		**¶16437943**
IDC	IV	14 08 47 09.0–.50	36.54N	141.77E	0	4.5,4.4		
ISCJB	IV	14 08 47 10.8–.77	36.55N–.02	141.82E–.03	21–5	4.5b,3.8s		
MOS	IV	14 08 47 12.1–1.1	36.65N	141.81E	29	4.7b,3.8s		
JMA	IV	14 08 47 12.4–.20	36.58N	141.76E	34–4	4.5,3.8s		
BJI	IV	14 08 47 12.0	36.35N	142.08E	55	4.8b,4.6b		
NEIC	IV	14 08 47 14.8–.60	36.57N	141.72E	36–5	4.6b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ32.00000°,λ-68.00000°. NP2:ϕ_s225.00000°,δ61.00000°,λ-103.00000°. $M_0$4.09000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=12.1km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=4.0km az=43.0.
MOS Error ellipse: s-maj=7.9km s-min=5.4km az=101.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=129.0.

(227) Eastern Honshu

ISC	**IV**	**14 09 31 06.2–1.4**	**37.13N–.04**	**140.91E–.07**	**8–7**	**3.7b**	**19**	**0-69**
NIED	IV	14 09 31 00	37.10N	140.90E	5	3.6W		**¶600587439**
ISCJB	IV	14 09 31 04.4–1.1	37.12N–.04	141.04E–.07	6–5	3.7b		
IDC	IV	14 09 31 04.1–1.5	37.23N	141.09E	0	3.7,3.6		
JMA	IV	14 09 31 06.6	37.14N	140.88E	7	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ27.00000°,λ-114.00000°. NP2:ϕ_s215.00000°,δ66.00000°,λ-78.00000°. $M_0$2.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.0km az=17.9.
IDC Error ellipse: s-maj=34.7km s-min=24.7km az=67.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ47.00000°,λ-71.00000°. NP2:ϕ_s359.00000°,δ47.00000°,λ-109.00000°.
Principal axes: T Plg0.0000°,Azm283.0000°; N Plg14.0000°,Azm13.0000°; P Plg76.0000°
,Azm193.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 09 53 59.3–2.1**	**39.13N–.04**	**142.41E–.08**	**17–11**	**3.7b**	**27**	**1-59**
ISCJB	IV	14 09 53 59.3–1.3	39.13N–.04	142.45E–.08	22–7	3.5b		**¶17201004**
JMA	IV	14 09 54 00.3–.10	39.15N	142.40E	26–2	3.8		
NIED	IV	14 09 54 00	39.20N	142.40E	8	3.7W		
IDC	IV	14 09 54 05.5–3.1	39.09N	142.36E	67–29	3.4,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.6km az=15.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ33.00000°,λ-122.00000°. NP2:ϕ_s88.00000°,δ62.00000°,λ-71.00000°. $M_0$3.96000×10^{14}
IDC Error ellipse: s-maj=32.0km s-min=20.7km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 09 56 59.1–1.2**	**38.36N–.04**	**141.88E–.09**	**49–11**	**3.9b**	**39**	**0-146**
NIED	IV	14 09 56 00	38.40N	141.80E	59	4.0W		**¶17201005**
ISCJB	IV	14 09 56 58.5–.65	38.37N–.04	141.85E–.08	59–5	3.9b,2.8s		
JMA	IV	14 09 56 59.8–.10	38.39N	141.76E	57–1	4.1,2.8s		
IDC	IV	14 09 57 00.1–2.2	38.35N	141.80E	60–21	3.9,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ31.00000°,λ97.00000°. NP2:ϕ_s195.00000°,δ59.00000°,λ86.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.3km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=12.4km az=114.0.

(159) North Island

WEL	**IV**	**14 10 14 52.9–.11**	**40.30S**	**176.58E**	**25–0**	**3.6L**		
								¶16427237

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt from Hawke"s Bay to Wairarapa, maximum reported intensity MM 4.

(229) Off east coast of Honshu

ISC	**IV**	**14 10 32 34.3–.40**	**39.74N–.04**	**143.44E–.03**	**29–2**	**5.0b,4.7s**	**910**	**1-144**
NIED	IV	14 10 32 00	39.80N	143.40E	11	4.9W,4.7s		**¶602557474**
ISCJB	IV	14 10 32 30.3–.81	39.73N–.02	143.39E–.02	10–5	5.0b,4.6s		
BJI	IV	14 10 32 31.8	39.85N	143.38E	26	5.0b,4.9b		
JMA	IV	14 10 32 32.1–.20	39.79N	143.43E	32	5.0,4.9b		
GCMT	IV	14 10 32 33.7–.40	39.81N	143.39E	17–2	4.8W,4.9b		
NEIC	IV	14 10 32 33.7–1.1	39.70N	143.31E	22–8	5.1b,4.9b		
MOS	IV	14 10 32 33.4–.92	39.91N	143.26E	26	5.2b,4.4s		
IDC	IV	14 10 32 34.2–.60	39.66N	143.39E	28–3	4.7,4.6		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ14.00000°,λ-27.00000°. NP2:ϕ_s226.00000°,δ84.00000°,λ-103.00000°. $M_0$2.93000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=161.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c15; s75,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.33±.08 $M_{\theta\theta}$0.69±.08; $M_{\phi\phi}$-0.36±.07; $M_{r\theta}$0.66±.21; $M_{\theta\phi}$1.18±.06; $M_{\phi r}$1.78±.40; Best double couple: NP1:ϕ_s199.00000°,δ85.00000°,λ-123.00000°. NP2:ϕ_s101.00000°,δ33.00000°,λ-9.00000°. Principal axes:
T 2.4260,Plg32.0000°,Azm316.0000°; N -0.2420,Plg33.0000°,Azm202.0000°
; P -2.1840,Plg41.0000°,Azm78.0000° $M_0$2.30500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=136.0. Felt at Misawa. Recorded [3 JMA] in Iwate.
MOS Error ellipse: s-maj=6.2km s-min=3.8km az=96.0.
IDC Error ellipse: s-maj=11.4km s-min=10.2km az=130.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 11 02 27.1–1.1**	**36.85N–.03**	**140.63E–.04**	**7–7**	**4.1b**	**60**	**0-147**
NIED	IV	14 11 02 00	36.80N	140.60E	5	4.1W		**¶16436899**
IDC	IV	14 11 02 25.8–.56	36.81N	140.60E	0	4.2,4.1		
ISCJB	IV	14 11 02 26.9–.46	36.82N–.02	140.68E–.04	19–3	4.0b,2.9s		
JMA	IV	14 11 02 27.6	36.85N	140.59E	9–1	4.2,2.9s		
NEIC	IV	14 11 02 30.4–.46	36.77N	140.63E	35	4.6b,2.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ18.00000°,λ-120.00000°. NP2:ϕ_s196.00000°,δ75.00000°,λ-81.00000°. $M_0$1.57000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=12.5km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=27.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s329.00000°,δ53.00000°,λ-129.00000°. NP2:ϕ_s202.00000°,δ51.00000°,λ-50.00000°.
Principal axes: T Plg1.0000°,Azm85.0000°; N Plg30.0000°,Azm354.0000°; P Plg60.0000°
,Azm177.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=8.2km az=114.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**IV**	**14 11 24 30.8–.78**	**37.12N–.03**	**140.78E–.04**	**10–4**	**4.1b**	**53**	**0-147**
NIED	IV	14 11 24 00	37.10N	140.80E	5	4.0W		**¶16436900**
IDC	IV	14 11 24 29.3–.54	37.15N	140.74E	0	4.3,4.1		
ISCJB	IV	14 11 24 30.6–1.0	37.12N–.03	140.88E–.04	15–6	4.1b,2.9s		
JMA	IV	14 11 24 30.8	37.12N	140.77E	9–1	4.4,2.9s		
NEIC	IV	14 11 24 32.8–2.1	37.06N	140.86E	25–15	4.5b,2.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ39.00000°,λ-122.00000°. NP2:ϕ_s236.00000°,δ58.00000°,λ-67.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=11.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s85.00000°,δ60.00000°,λ-37.00000°. NP2:ϕ_s196.00000°,δ59.00000°,λ-144.00000°.
Principal axes: T Plg1.0000°,Azm141.0000°; N Plg44.0000°,Azm232.0000°; P Plg46.0000°
,Azm50.0000°
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.7km az=105.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**IV**	**14 11 46 48.4–1.3**	**36.96N–.03**	**140.54E–.03**	**0–8**	**3.9b**	**45**	**0-91**
NIED	IV	14 11 46 00	37.00N	140.60E	8	3.8W		**¶602557484**
IDC	IV	14 11 46 48.9–.68	36.96N	140.45E	0	4.0,3.9		
ISCJB	IV	14 11 46 49.4–.48	36.99N–.03	140.68E–.04	18–3	3.9b,3.9		
JMA	IV	14 11 46 49.9	37.02N	140.59E	9–1	4.1,3.9		
NEIC	IV	14 11 46 53.2–.52	36.87N	140.54E	35	4.1b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s126.00000°,δ25.00000°,λ-74.00000°. NP2:ϕ_s288.00000°,δ66.00000°,λ-98.00000°. $M_0$5.59000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=14.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=29.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s78.00000°,δ53.00000°,λ-102.00000°. NP2:ϕ_s278.00000°,δ39.00000°,λ-74.00000°.
Principal axes: T Plg7.0000°,Azm177.0000°; N Plg10.0000°,Azm86.0000°; P Plg78.0000°
,Azm301.0000°
NEIC Event type fe. Error ellipse: s-maj=12.3km s-min=9.5km az=116.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 12 17 36.5–.93**	**36.73N–.03**	**140.51E–.05**	**9–6**	**3.6b**	**28**	**0-91**
NIED	IV	14 12 17 00	36.70N	140.60E	5	3.7W		**¶17201020**
ISCJB	IV	14 12 17 35.6–.75	36.67N–.03	140.74E–.05	12–4	3.6b		
JMA	IV	14 12 17 36.9	36.71N	140.63E	7–1	3.6		
IDC	IV	14 12 17 42.0–3.4	36.68N	140.47E	49–33	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ28.00000°,λ-52.00000°. NP2:ϕ_s137.00000°,δ69.00000°,λ-108.00000°. $M_0$4.23000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.7km az=35.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s334.00000°,δ54.00000°,λ-88.00000°. NP2:ϕ_s150.00000°,δ36.00000°,λ-93.00000°.
Principal axes: T Plg9.0000°,Azm62.0000°; N Plg2.0000°,Azm152.0000°; P Plg81.0000°
,Azm255.0000°
IDC Error ellipse: s-maj=24.3km s-min=17.4km az=98.0.

(227) Eastern Honshu

ISC	**IV**	**14 12 24 06.4–.80**	**37.10N–.05**	**140.79E–.07**	**6–5**	**4.1b,3.2s**	**45**	**0-90**
NIED	IV	14 12 24 00	37.10N	140.90E	5	3.9W,3.2s		**¶602557482**
ISCJB	IV	14 12 24 04.7–.88	37.07N–.03	141.01E–.05	7–4	4.0b,3.1s		
IDC	IV	14 12 24 05.2–.64	37.08N	140.89E	0	4.1,4.0		

JMA IV 14 12 24 06.6 37.09N 140.82E 6–1 3.9,4.0
NEIC IV 14 12 24 10.3–.87 37.06N 140.93E 35–8 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ30.00000°,λ-119.00000°. NP2:ϕ_s258.00000°,δ64.00000°,λ-75.00000°. $M_0$9.27000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.8km az=32.1.
IDC Error ellipse: s-maj=17.5km s-min=13.9km az=107.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=7.8km az=123.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 13 06 19.3–1.4**	**35.92N–.04**	**140.85E–.09**	**34–3**	**3.7b,3.4s**	**24**	**0-91**
ISCJB	IV	14 13 06 17.9–.63	35.89N–.04	140.96E–.10	47–5	3.7b,3.5s		**¶600587565**
NEIC	IV	14 13 06 18.7–.65	35.90N	141.01E	35	4.3b,3.5s		
IDC	IV	14 13 06 18.6–3.7	35.82N	141.01E	34–30	3.9L,3.8		
JMA	IV	14 13 06 19.3–.10	35.88N	140.85E	40–1	3.4,3.8		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=6.0km az=172.7.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.2km az=86.0.
IDC Error ellipse: s-maj=25.3km s-min=14.4km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s343.00000°,δ87.00000°,λ73.00000°. NP2: ϕ_s244.00000°,δ17.00000°,λ171.00000°. Principal axes: T Plg45.0000°,Azm236.0000° ; N Plg17.0000°,Azm343.0000°; P Plg40.0000°,Azm88.0000°

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 13 15 20.7–.10**	**39.28N**	**142.34E**	**30–1**	**3.7**	
NIED	IV	14 13 15 00	39.30N	142.30E	11	3.6W	**¶600587574**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ54.00000°,λ-155.00000°. NP2:ϕ_s184.00000°,δ70.00000°,λ-39.00000°. $M_0$2.60000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 14 34 16.1–1.1**	**36.94N–.03**	**140.65E–.04**	**19–3**		**23**	**0-61**
ISCJB	IV	14 14 34 15.7–.59	36.93N–.03	140.72E–.05	20–5	3.5b		**¶600587635**
IDC	IV	14 14 34 15.1–5.5	38.22N	136.43E	59–56	3.3,3.3		
JMA	IV	14 14 34 16.4	36.95N	140.62E	8–1	3.6,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=20.6.
IDC Error ellipse: s-maj=72.6km s-min=21.8km az=78.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s238.00000°,δ60.00000°,λ-98.00000°. NP2:ϕ_s74.00000°,δ31.00000°,λ-77.00000°. Principal axes: T Plg14.0000°,Azm334.0000°; N Plg7.0000°,Azm242.0000°; P Plg74.0000° ,Azm127.0000°

(221) Kuril Islands

ISC	**IV**	**14 15 49 48.8–1.2**	**43.14N–.09**	**146.11E–.05**	**72–7**	**3.7b**	**45**	**0-70**
NIED	IV	14 15 49 00	43.10N	146.00E	68	3.3W		**¶600587704**
MOS	IV	14 15 49 47.4–.95	43.04N	146.13E	87	4.0b		
ISCJB	IV	14 15 49 48.2–.84	43.15N–.07	146.11E–.07	81–4	3.7b		
SKHL	IV	14 15 49 50.7–.40	43.13N	146.11E	47–2	4.3b		
JMA	IV	14 15 49 50.0–.10	43.15N	146.04E	70–1	3.8		
IDC	IV	14 15 49 55.3–2.8	45.51N	144.86E	0	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ36.00000°,λ58.00000°. NP2:ϕ_s24.00000°,δ60.00000°,λ111.00000°. $M_0$1.16000×10^{14}
MOS Error ellipse: s-maj=24.1km s-min=14.2km az=105.1.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=5.7km az=149.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=62.5km s-min=26.3km az=136.0.

(259) Mindanao

ISC	**IV**	**14 16 11 54.7–.31**	**5.89N–.03**	**126.25E–.04**	**152–2**	**5.0b**	**657**	**1-163**
BJI	IV	14 16 11 51.4	5.70N	126.21E	145	5.3b,5.1b		**¶16427710**
MAN	IV	14 16 11 53	5.81N	126.29E	151	5.7b,5.2s		
MOS	IV	14 16 11 53.6–.99	5.86N	126.11E	155	5.0b,5.2s		
ISCJB	IV	14 16 11 54.8–.23	5.89N–.01	126.25E–.02	167–2	5.0b,5.2s		
KLM	IV	14 16 11 54.3	5.84N	126.48E	154	6.0s,5.9L		
NEIC	IV	14 16 11 55.3–.47	5.89N	126.22E	157–4	5.1b,5.9L		
IDC	IV	14 16 11 55.8–.50	5.82N	126.17E	160–3	5.1,4.8		
GCMT	IV	14 16 11 55.3–.20	5.99N	126.40E	154–1	5.3W,4.8		
DJA	IV	14 16 12 01.7–.90	5N–8.0	126E–3.0	127–9	5.9,5.8b		

ISC Event type fe.
MAN Event type fe. INTENSITY II - GENERAL SANTOS CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [II PIVS] at General Santos. Also felt at Davao and Digos.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c117; s105,c175;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.02 $M_{\theta\theta}$0.08±.02; $M_{\phi\phi}$-0.35±.03; $M_{r\theta}$-0.65±.01; $M_{\theta\phi}$-0.92±.02; $M_{\phi r}$0.44±.02; Best double couple: NP1:ϕ_s258.00000°,δ68.00000°,λ151.00000°. NP2:ϕ_s360.00000° ,δ63.00000°,λ25.00000°. Principal axes: T 1.3640,Plg36.0000°,Azm217.0000° ; N -0.2840,Plg54.0000°,Azm44.0000°; P -1.0810,Plg3.0000°,Azm310.0000° $M_0$1.22300×10^{17}

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 16 48 34.4–.20**	**35.72N**	**140.96E**	**9–1**	**3.5**	
NIED	IV	14 16 48 00	35.70N	141.00E	8	3.6W	**¶600587780**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ30.00000°,λ-74.00000°. NP2:ϕ_s166.00000°,δ61.00000°,λ-99.00000°. $M_0$3.28000×10^{14}

(227) Eastern Honshu

ISC	**IV**	**14 17 12 38.8–1.3**	**37.04N–.06**	**140.88E–.08**	**9–7**	**3.4b**	**15**	**0-57**
IDC	IV	14 17 12 36.5–2.1	37.11N	141.15E	0	3.4,3.3b		**¶17201042**
ISCJB	IV	14 17 12 37.3–1.3	37.07N–.04	141.04E–.08	6–5	3.3b,3.3b		
JMA	IV	14 17 12 39.8	37.09N	140.84E	8–1	2.8,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=41.2km s-min=31.5km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.8km az=8.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 19 07 43.5–.88**	**36.95N–.03**	**140.70E–.05**	**14–6**	**3.5b**	**31**	**0-69**
NIED	IV	14 19 07 00	37.00N	140.70E	5	3.6W		**¶600587916**
ISCJB	IV	14 19 07 42.8–.59	36.94N–.03	140.81E–.06	20–4	3.5b		
JMA	IV	14 19 07 43.8	36.95N	140.67E	6–1	3.8		
IDC	IV	14 19 07 47.3–2.3	36.98N	140.73E	41–21	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ36.00000°,λ-105.00000°. NP2:ϕ_s234.00000°,δ56.00000°,λ-80.00000°. $M_0$2.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.5km az=17.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s226.00000°,δ45.00000°,λ-82.00000°. NP2:ϕ_s34.00000°,δ45.00000°,λ-98.00000°. Principal axes: T Plg0.0000°,Azm310.0000°; N Plg6.0000°,Azm40.0000°; P Plg84.0000° ,Azm220.0000°
IDC Error ellipse: s-maj=15.9km s-min=11.6km az=63.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 19 47 43.9**	**36.70N**	**140.57E**	**7–1**	**3.5**	
NIED	IV	14 19 47 00	36.70N	140.60E	5	3.3W	**¶600587956**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ40.00000°,λ-40.00000°. NP2:ϕ_s161.00000°,δ66.00000°,λ-122.00000°. $M_0$1.10000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 20 00 43.8–1.4**	**37.18N–.04**	**141.26E–.08**	**24–9**	**3.7b**	**42**	**0-147**
NIED	IV	14 20 00 00	37.20N	141.20E	26	3.9W		**¶602557494**
IDC	IV	14 20 00 40.2–.60	37.19N	141.22E	0	4.0,3.8		
ISCJB	IV	14 20 00 42.1–.95	37.16N–.04	141.36E–.07	26–6	3.7b,2.9s		
JMA	IV	14 20 00 44.2–.10	37.21N	141.22E	31–1	4.2,2.9s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ38.00000°,λ-73.00000°. NP2:ϕ_s211.00000°,δ54.00000°,λ-103.00000°. $M_0$9.16000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=15.1km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.8km az=13.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(74) Near coast of Nicaragua

ISC	**IV**	**14 20 50 19.0–.38**	**11.28N–.04**	**86.36W–.04**	**55–2**	**5.5b,5.4s**	**1182**	**1-177**
IDC	IV	14 20 50 11.5–.34	11.48N	86.06W	0	5.3,5.3s		**¶16436913**
NEIC	IV	14 20 50 15.1–.20	11.24N	86.34W	22	5.7W,5.6W		
GCMT	IV	14 20 50 16.5–.10	10.85N	86.81W	34–0	5.7W,5.6W		
CASC	IV	14 20 50 16.3–2.2	11.02N	86.57W	22–8	5.6b,4.9		
ISCJB	IV	14 20 50 18.8–.25	11.30N–.03	86.32W–.02	72–2	5.4b,4.9		
BJI	IV	14 20 50 19.5	11.30N	86.30W	56	5.9s,5.6		
NEIC	IV	14 20 50 19.0–.00	11.11N	86.25W	35	5.9s,5.6		
MOS	IV	14 20 50 19.1–1.1	11.52N	86.09W	64	5.7b,5.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=8.9km az=59.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=46.0. Felt [III] at Managua. Felt widely in western Nicaragua. Felt [III] at Sardinal, Costa Rica. Felt in northwestern Costa Rica and in the Valle Central. Felt [I] at San Salvador, El Salvador. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36 $M_{\theta\theta}$-1.84 $M_{\phi\phi}$-0.52 $M_{r\theta}$1.17 $M_{\theta\phi}$1.00 $M_{\phi r}$-0.58 Best double couple: NP1:ϕ_s117.00000°,δ59.00000°,λ89.00000°. NP2: ϕ_s299.00000°,δ31.00000°,λ92.00000°. Principal axes: T 2.6900,Plg76.0000°,Azm25.0000° ; N 0.0200,Plg1.0000°,Azm118.0000°; P -2.7100,Plg14.0000°,Azm208.0000° $M_0$2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c233; s123,c307;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.62±.04 $M_{\theta\theta}$-2.56±.03; $M_{\phi\phi}$-1.06±.04; $M_{r\theta}$2.04±.05; $M_{\theta\phi}$1.99±.03; $M_{\phi r}$-1.35±.05; Best double couple: NP1: ϕ_s124.00000°,δ61.00000°,λ89.00000°. NP2:ϕ_s305.00000°,δ29.00000°,λ91.00000°. Principal axes: T 4.3430,Plg74.0000°,Azm32.0000°; N 0.3160,Plg1.0000°,Azm124.0000° ; P -4.6590,Plg16.0000°,Azm215.0000° $M_0$4.50100×10^{17}
CASC Error ellipse: s-maj=9.5km s-min=6.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.4km az=39.0.
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}3.40 $M_{\theta\theta}$-2.20 $M_{\phi\phi}$-1.20 $M_{r\theta}$2.10 $M_{\theta\phi}$2.30 $M_{\phi r}$-2.20 Best double couple: NP1:ϕ_s133.00000° ,δ65.00000°,λ95.00000°. NP2:ϕ_s302.00000°,δ26.00000°,λ80.00000°. Principal axes: T 4.5000,Plg69.0000°,Azm53.0000°; N 0.7000,Plg4.0000°,Azm311.0000° ; P -5.2000,Plg19.0000°,Azm219.0000° $M_0$5.00000×10^{17}
MOS Error ellipse: s-maj=9.3km s-min=4.3km az=114.3.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 22 00 25.5–1.7**	**39.01N–.04**	**142.45E–.05**	**14–10**	**3.9b**	**53**	**1-88**
NIED	IV	14 22 00 00	39.10N	142.40E	32	4.1W		**¶16577812**
JMA	IV	14 22 00 27.3–.10	39.07N	142.39E	31–1	4.1		
IDC	IV	14 22 00 31.4–2.4	38.97N	142.26E	59–22	4.2,4.2s		
NEIC	IV	14 22 00 32.3–.88	38.94N	142.31E	70–7	4.3b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ28.00000°,λ-100.00000°. NP2:ϕ_s194.00000°,δ62.00000°,λ-84.00000°. $M_0$1.62000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=12.1km az=107.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.7km az=124.0.

(135) Near coast of central Chile

ISC	**IV**	**14 22 14 36.2–.96**	**34.72S–.04**	**71.96W–.07**	**41–8**	**4.2b**	**57**	**0-157**
ISCJB	IV	14 22 14 36.1–.54	34.68S–.04	71.98W–.07	52–4	4.2b		**¶16510403**
NEIC	IV	14 22 14 36.0	34.68S	71.74W	39	4.2b		
GUC	IV	14 22 14 36.8–.46	34.68S	71.74W	39–3	4.5L		
IDC	IV	14 22 14 38.0–3.2	34.59S	71.66W	50–29	4.2,4.2L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.0km az=15.7.
NEIC Event type fe. Felt [IV] at Curico, Pencahue, San Fernando and Santa Cruz; [III] at Chepica, Constitucion, Iloca, Lolol, Paredones, Pichilemu, Rancagua, Rengo, Rio Claro and Talca. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=20.1km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 22 24 05.6–2.0**	**38.85N–.05**	**142.25E–.08**	**26–14**	**3.4b**	**20**	**1-62**
NIED	IV	14 22 24 00	38.90N	142.30E	59	4.2W		**¶17201068**
IDC	IV	14 22 24 01.6–1.1	38.84N	142.49E	0	3.8s,3.8		
ISCJB	IV	14 22 24 03.7–1.6	38.87N–.05	142.4E–.10	23–10	3.8s,3.4b		
JMA	IV	14 22 24 06.0–.20	38.92N	142.27E	37–3	3.8,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ52.00000°,λ152.00000°. NP2:ϕ_s107.00000°,δ68.00000°,λ41.00000°. $M_0$2.41000×10^{15}
IDC Error ellipse: s-maj=31.7km s-min=22.0km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=7.6km az=23.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(227) Eastern Honshu

JMA	**IV**	**14 22 52 36.4**	**37.01N**	**140.67E**	**13–1**	**3.6**	

¶600588146

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**14 23 05 23.9–1.3**	**37.02N–.06**	**140.65E–.05**	**5–12**	**3.6b**	**14**	**0-61**
IDC	IV	14 23 05 22.5–2.3	37.08N	140.89E	0	3.7,3.6		**¶17201071**
ISCJB	IV	14 23 05 23.4–1.1	37.04N–.05	140.93E–.09	17–7	3.6s,3.5b		
JMA	IV	14 23 05 24.7	37.07N	140.69E	8–1	3.1,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=29.8km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.5km az=14.2.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**14 23 31 48.6–.46**	**38.92N–.04**	**142.49E–.05**	**27**	**4.2b**	**83**	**1-145**
NIED	IV	14 23 31 00	39.00N	142.40E	26	4.1W		**¶16436917**
IDC	IV	14 23 31 44.9–.58	38.92N	142.43E	0	4.2,4.1		
ISCJB	IV	14 23 31 47.1–.36	38.97N–.04	142.55E–.04	27	4.2b,4.1		
MOS	IV	14 23 31 48.7–1.1	39.03N	142.55E	39	4.3b,4.1		
JMA	IV	14 23 31 49.0–.10	39.05N	142.44E	34–2	4.3,4.1		
NEIC	IV	14 23 31 50.6–.71	38.92N	142.53E	41–6	4.8b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ49.00000°,λ-56.00000°. NP2:ϕ_s280.00000°,δ51.00000°,λ-123.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=146.1.
MOS Error ellipse: s-maj=9.9km s-min=6.6km az=82.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=126.0. Recorded [3 JMA] in Iwate.

(274) Southern Sumatera

ISC	**IV**	**14 23 45 22.6–.46**	**1.87S–.04**	**100.36E–.04**	**67–3**	**4.9b**	**320**	**1-159**
IDC	IV	14 23 45 13.8–.46	1.88S	100.31E	0	4.7,4.7b		**¶16436918**
MOS	IV	14 23 45 18.3–1.1	1.72S	100.59E	37	5.2b,4.3s		
BJI	IV	14 23 45 19.9	2.02S	100.46E	67	4.9b,4.9b		
ISCJB	IV	14 23 45 21.2–.34	1.86S–.02	100.41E–.03	67–3	4.8b,4.9b		
NEIC	IV	14 23 45 21.9–.66	1.83S	100.48E	59–6	4.9b,4.9b		
DJA	IV	14 23 45 22.4–.50	2S–2.0	100E–2.0	36–5	5.1b,5.0		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Padangpanjang and Painan. Also felt at Padang.

(228) Near east coast of eastern Honshu

JMA	**IV**	**14 23 53 28.2–.10**	**38.59N**	**142.23E**	**29–2**	**4.1**	

¶600588239

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 00 50 35.8–2.0**	**39.20N–.06**	**142.59E–.08**	**23–13**	**4.0b**	**39**	**1-81**
NIED	IV	15 00 50 00	39.30N	142.60E	35	3.9W		**¶16505383**
IDC	IV	15 00 50 31.7–.87	39.15N	142.66E	0	4.0,3.9b		
ISCJB	IV	15 00 50 34.6–1.1	39.17N–.05	142.66E–.06	30–7	4.0b,3.9b		
JMA	IV	15 00 50 36.2–.10	39.26N	142.59E	28–1	4.1,3.9b		
NEIC	IV	15 00 50 36.8–2.3	39.16N	142.64E	34–15	4.4b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ27.00000°,λ5.00000°. NP2:ϕ_s49.00000°,δ88.00000°,λ117.00000°. $M_0$8.96000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=17.3km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.9km az=41.8.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.9km az=125.0.

(135) Near coast of central Chile

ISC	**IV**	**15 00 53 33.4–.41**	**36.45S–.04**	**73.21W–.06**	**25**	**5.0b**	**78**	**0-174**
IDC	IV	15 00 53 29.3–1.2	36.50S	73.12W	0	4.3,4.3L		**¶16577823**
ISCJB	IV	15 00 53 31.6–.32	36.42S–.04	73.31W–.06	25	5.0b,3.5s		

NEIC IV 15 00 53 32.0 36.48S 73.39W 14 4.8b,4.5L
GUC IV 15 00 53 32.6–.33 36.48S 73.39W 14–1 4.5L,4.5L
BJI IV 15 00 53 34.6 36.40S 73.20W 29 5.4s,5.2
ISC Event type fe.
IDC Error ellipse: s-maj=36.6km s-min=29.5km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=157.8.
NEIC Event type fe. Felt [IV] at Angol, Chiguayante, Coronel, Penco and San Pedro de la Paz; [III] at Cauquenes, Concepcion and Renaico; [II] at Los Angeles. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.

(135) Near coast of central Chile

ISC IV 15 00 59 46.6–.42 37.13S–.06 73.62W–.07 14 4.7b 66 0-175
GUC IV 15 00 59 37.1–.33 37.50S 73.26W 15–2 4.5L **¶16440441**
ISCJB IV 15 00 59 45.0–.37 37.13S–.05 73.55W–.06 14 4.8b,4.1s
IDC IV 15 00 59 44.4–1.2 37.06S 73.65W 0 4.3,4.1L
BJI IV 15 00 59 45.6 37.10S 73.60W 17 5.1b,4.1L
NEIC IV 15 00 59 46.1–.33 37.09S 73.59W 10 4.8b,4.5L
ISC Event type fe.
GUC Error ellipse: s-maj=1.8km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.4km az=44.8.
IDC Error ellipse: s-maj=37.2km s-min=28.6km az=49.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=6.7km az=79.0. Felt [III] at Penco, San Pedro de la Paz and Talcahuano and [II] at Concepcion. Also felt at Canete.

(173) Tonga Islands

ISC IV 15 02 06 28.7–.47 15.25S–.04 173.12W–.04 17–2 5.7b,5.7s 1715 2-175
IDC IV 15 02 06 25.8–.32 15.31S 173.17W 0 5.5s,5.5 **¶16505384**
BJI IV 15 02 06 25.9 15.26S 173.13W 7 5.9b,5.6s
ISCJB IV 15 02 06 25.8–.09 15.27S–.02 173.21W–.02 10 5.6s,5.6b
GCMT IV 15 02 06 26.8–.10 15.07S 172.97W 30–0 5.8W,5.6b
NEIC IV 15 02 06 27.0–.00 14.77S 173.24W 15 5.8W,5.6b
NEIC IV 15 02 06 28.4–.09 15.28S 173.24W 17 5.8W,5.8W
MOS IV 15 02 06 30.5–.89 15.05S 173.12W 33 5.8b,5.7s
ISC Event type fe.
IDC Error ellipse: s-maj=13.2km s-min=9.4km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=142.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c248; s135,c383;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.28±.05 $M_{\theta\theta}$4.35±.05; $M_{\phi\phi}$-4.63±.05; $M_{r\theta}$-4.46±.13; $M_{\theta\phi}$3.02±.04; $M_{\phi r}$1.09±.09; Best double couple: NP1: ϕ_s298.00000°,δ86.00000°,λ39.00000°. NP2:ϕ_s205.00000°,δ51.00000°,λ174.00000°. Principal axes: T 7.5470,Plg30.0000°,Azm169.0000°; N -0.9990,Plg51.0000°,Azm304.0000°; P -6.5480,Plg23.0000°,Azm65.0000° $M_0$7.04800×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$3.10 $M_{\phi\phi}$-3.60 $M_{r\theta}$-2.40 $M_{\theta\phi}$3.50 $M_{\phi r}$3.50 Best double couple: NP1:ϕ_s112.00000°,δ82.00000°,λ-32.00000°. NP2:ϕ_s207.00000°,δ57.00000°,λ-171.00000°. Principal axes: T 4.8000,Plg16.0000°,Azm164.0000°; N 2.5000,Plg56.0000°,Azm280.0000°; P -7.4000,Plg28.0000°,Azm64.0000° $M_0$6.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=135.0. Felt at Neiafu. Felt [III] at Apia, Samoa. Also felt at Faleolo. Felt at Alao, Fagatogo, Malaeimi, Mapusagafou, Nu'uuli and Pago Pago, American Samoa. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.77 $M_{\theta\theta}$2.68 $M_{\phi\phi}$-1.90 $M_{r\theta}$-4.36 $M_{\theta\phi}$3.57 $M_{\phi r}$2.65 Best double couple: NP1:ϕ_s203.00000°,δ42.00000°,λ-172.00000°. NP2:ϕ_s107.00000°,δ84.00000°,λ-49.00000°. Principal axes: T 5.9900,Plg27.0000°,Azm165.0000°; N 1.2000,Plg41.0000°,Azm282.0000°; P -7.1900,Plg37.0000°,Azm52.0000° $M_0$6.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s231.00000°,δ11.00000°,λ-153.00000°. NP2:ϕ_s115.00000°,δ85.00000°,λ-80.00000°. Principal axes: T Plg39.0000°,Azm196.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000°,Azm36.0000°
MOS Error ellipse: s-maj=9.0km s-min=6.3km az=75.3.

(228) Near east coast of eastern Honshu

JMA IV 15 02 08 52.7–.10 35.67N 140.92E 13–1 3.6
NIED IV 15 02 08 00 35.70N 140.90E 8 3.4W **¶600588360**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ43.00000°,λ-120.00000°. NP2:ϕ_s181.00000°,δ54.00000°,λ-65.00000°. $M_0$1.53000×10^{14}

(228) Near east coast of eastern Honshu

ISC IV 15 02 29 50.3–3.1 36.37N–.04 141.81E–.05 9–19 4.0b 56 1-152
IDC IV 15 02 29 49.0–.63 36.36N 141.67E 0 4.9L,4.1 **¶16505385**
NEIC IV 15 02 29 51.6–2.8 36.33N 141.78E 18–17 4.1b,4.1
JMA IV 15 02 29 53.4–.10 36.41N 141.71E 53–4 3.9,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=16.9km az=98.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=7.2km az=51.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC IV 15 02 54 03.7–1.2 37.02N–.04 140.62E–.04 14–10 21 0-57
IDC IV 15 02 54 01.9–2.5 37.01N 140.75E 0 3.7,3.5b **¶17201079**
ISCJB IV 15 02 54 04.2–.56 37.00N–.03 140.66E–.05 16–7 3.6b,3.5b
JMA IV 15 02 54 04.4 37.01N 140.59E 6–1 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=45.8km s-min=32.5km az=34.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=12.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s281.00000°,δ70.00000°,λ-92.00000°. NP2:ϕ_s107.00000°,δ20.00000°,λ-84.00000°. Principal axes: T Plg25.0000°,Azm13.0000°; N Plg2.0000°,Azm282.0000°; P Plg65.0000°,Azm188.0000°

(227) Eastern Honshu

ISC IV 15 02 58 51.3–1.3 37.01N–.03 140.52E–.04 2–9 3.7b 33 0-147
NIED IV 15 02 58 00 37.00N 140.60E 5 4.0W **¶16505386**
ISCJB IV 15 02 58 52.2–.57 37.03N–.03 140.71E–.05 17–4 3.7b
JMA IV 15 02 58 52.7 37.03N 140.62E 8–1 4.0
IDC IV 15 02 58 58.6–3.5 37.03N 140.37E 55–32 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ40.00000°,λ-127.00000°. NP2:ϕ_s332.00000°,δ59.00000°,λ-63.00000°. $M_0$1.09000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=12.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ60.00000°,λ-93.00000°. NP2:ϕ_s136.00000°,δ30.00000°,λ-85.00000°. Principal axes: T Plg15.0000°,Azm42.0000°; N Plg3.0000°,Azm311.0000°; P Plg75.0000°,Azm211.0000°
IDC Error ellipse: s-maj=22.4km s-min=17.0km az=81.0.

(227) Eastern Honshu

ISC IV 15 04 12 56.2–1.1 37.03N–.04 140.69E–.05 13–9 16 0-57
IDC IV 15 04 12 53.8–2.6 37.00N 140.84E 0 3.7,3.5b **¶600588493**
ISCJB IV 15 04 12 55.7–.95 36.99N–.04 140.84E–.10 22–5 3.4b,3.5b
JMA IV 15 04 12 56.7 37.03N 140.62E 9–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=33.7km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.2km az=17.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s317.00000°,δ47.00000°,λ-75.00000°. NP2:ϕ_s115.00000°,δ45.00000°,λ-106.00000°. Principal axes: T Plg1.0000°,Azm36.0000°; N Plg11.0000°,Azm126.0000°; P Plg79.0000°,Azm301.0000°

(259) Mindanao

ISC IV 15 04 21 35.1–1.5 9.76N–.03 126.28E–.06 11–9 4.3b 57 1-120
MAN IV 15 04 21 39 9.63N 126.16E 17 4.8b,3.7L **¶16536011**
NEIC IV 15 04 21 46.8–1.3 9.62N 126.12E 117–12 4.2b,3.7L
IDC IV 15 04 21 46.9–2.5 9.61N 126.01E 116–24 4.2,3.9
DJA IV 15 04 22 09.7–.90 9N–8.0 125E–9.0 243–8 5.0b,4.4
ISC Event type fe.
MAN Event type fe. INTENSITY I - SURIGO CITY; GENERAL LUNA SURIGAO DEL NORTE.
NEIC Event type fe. Felt [I PIVS] at General Luna and Surigao.

(228) Near east coast of eastern Honshu

JMA IV 15 04 27 17.8–.10 38.44N 141.97E 61–1 3.5
¶600588511
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC IV 15 05 15 03.3–.92 37.00N–.03 140.69E–.04 10–6 4.0b 32 0-147
NIED IV 15 05 15 00 37.00N 140.70E 5 3.6W **¶600588543**
IDC IV 15 05 15 01.7–.89 37.05N 140.68E 0 3.9,3.8b
ISCJB IV 15 05 15 02.5–.62 37.00N–.03 140.82E–.05 17–4 3.9b,3.8b
JMA IV 15 05 15 03.4 37.01N 140.70E 7–1 3.7,3.8b
NEIC IV 15 05 15 08.0–2.1 36.97N 140.59E 45–18 4.4b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ37.00000°,λ-110.00000°. NP2:ϕ_s91.00000°,δ56.00000°,λ-76.00000°. $M_0$2.88000×10^{14}
IDC Error ellipse: s-maj=22.6km s-min=20.2km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.9km az=27.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s263.00000°,δ56.00000°,λ-105.00000°. NP2:ϕ_s108.00000°,δ36.00000°,λ-69.00000°. Principal axes: T Plg10.0000°,Azm3.0000°; N Plg12.0000°,Azm271.0000°; P Plg74.0000°,Azm132.0000°
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=11.1km az=62.0.

(227) Eastern Honshu

ISC IV 15 05 48 40.8–.95 37.02N–.03 140.70E–.04 9–6 3.6b 28 0-147
NIED IV 15 05 48 00 37.00N 140.70E 5 3.7W **¶17201093**
ISCJB IV 15 05 48 39.6–1.7 37.01N–.03 140.81E–.05 11–11 3.6b
IDC IV 15 05 48 39.2–.75 37.00N 140.74E 0 3.9,3.8
JMA IV 15 05 48 40.6 37.02N 140.69E 7–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ35.00000°,λ-73.00000°. NP2:ϕ_s251.00000°,δ57.00000°,λ-101.00000°. $M_0$4.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=18.8.
IDC Error ellipse: s-maj=22.4km s-min=17.9km az=138.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s100.00000°,δ52.00000°,λ-74.00000°. NP2:ϕ_s255.00000°,δ41.00000°,λ-110.00000°. Principal axes: T Plg6.0000°,Azm179.0000°; N Plg13.0000°,Azm270.0000°; P Plg76.0000°,Azm65.0000°

(228) Near east coast of eastern Honshu

ISC IV 15 05 53 15.5–1.6 36.73N–.10 140.7E–.10 4–12 3.5b 11 0-57
ISCJB IV 15 05 53 14.9–1.5 36.62N–.08 140.76E–.10 10–5 3.3b **¶17201094**
IDC IV 15 05 53 14.9–2.4 36.75N 140.72E 0 3.5,3.4
JMA IV 15 05 53 16.6 36.69N 140.63E 5–1 3.2,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=8.2km az=136.4.
IDC Error ellipse: s-maj=41.1km s-min=28.9km az=60.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s349.00000°,δ63.00000°,λ-76.00000°. NP2:ϕ_s141.00000°,δ30.00000°,λ-115.00000°. Principal axes: T Plg17.0000°,Azm69.0000°; N Plg12.0000°,Azm163.0000°; P Plg69.0000°,Azm287.0000°

(227) Eastern Honshu

ISC IV 15 06 27 58.4–1.4 36.93N–.06 138.51E–.05 6–11 13 0-57
IDC IV 15 06 27 57.7–1.5 36.93N 138.56E 0 3.8,3.4 **¶17201097**
ISCJB IV 15 06 27 58.1–.97 36.92N–.06 138.51E–.08 19–10 3.5b,3.4
JMA IV 15 06 27 58.4 36.91N 138.55E 0 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=8.3km az=28.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.4km az=136.1.
JMA Event type fe.

(227) Eastern Honshu

ISC IV 15 07 03 55.8–1.0 36.72N–.05 138.67E–.03 11–7 3.5b 23 0-77
NIED IV 15 07 03 00 36.80N 138.60E 5 3.9W **¶17201100**
ISCJB IV 15 07 03 54.2–.56 36.82N–.03 138.61E–.04 9–4 3.4b
JMA IV 15 07 03 54.5–.20 36.82N 138.62E 1–3 3.5
IDC IV 15 07 03 55.2–1.0 36.61N 138.71E 0 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ39.00000°,λ-168.00000°. NP2:ϕ_s178.00000°,δ83.00000°,λ-52.00000°. $M_0$8.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=141.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s187.00000°,δ80.00000°,λ-16.00000°. NP2:ϕ_s280.00000°,δ75.00000°,λ-170.00000°. Principal axes: T Plg4.0000°,Azm234.0000°; N Plg72.0000°,Azm336.0000°; P Plg18.0000°,Azm143.0000°
IDC Error ellipse: s-maj=24.5km s-min=7.9km az=167.0.

(318) Yunnan

ISC IV 15 07 44 46.8–.66 26.68N–.03 103.09E–.04 17–4 4.8b,3.8s 284 2-165
BJI IV 15 07 44 46.0 26.66N 102.94E 12 4.8b,4.7b **¶16436934**
ISCJB IV 15 07 44 47.2–1.2 26.70N–.02 103.09E–.03 30–8 4.7b,3.8s
MOS IV 15 07 44 48.2–1.1 26.67N 103.13E 41 5.0b,3.8s
IDC IV 15 07 44 48.9–3.5 26.68N 103.10E 33–27 4.4,4.4L
BKK IV 15 07 44 48.0–.30 27N–4.0 103E–5.0 10 5.1b,5.0
NEIC IV 15 07 44 50.6–.58 26.69N 103.06E 47–5 4.8b,5.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=14.6.
MOS Error ellipse: s-maj=8.4km s-min=5.1km az=99.7.
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=84.0. Felt at Xichang.

(227) Eastern Honshu

ISC IV 15 08 05 53.4–1.0 37.01N–.03 140.71E–.04 7–7 3.5b 29 0-64
IDC IV 15 08 05 52.0–.93 36.96N 140.79E 0 3.5,3.4 **¶17201105**
JMA IV 15 08 05 53.1 37.02N 140.69E 7–1 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=19.6km az=135.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s259.00000°,δ51.00000°,λ-99.00000°. NP2:ϕ_s93.00000°,δ40.00000°,λ-79.00000°. Principal axes: T Plg6.0000°,Azm355.0000°; N Plg7.0000°,Azm264.0000°; P Plg81.0000°,Azm125.0000°

(228) Near east coast of eastern Honshu

JMA IV 15 08 16 07.7–.10 38.20N 141.62E 54–1 3.8
NIED IV 15 08 16 00 38.20N 141.60E 17 3.9W **¶600588665**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ73.00000°,λ-180.00000°. NP2:ϕ_s224.00000°,δ90.00000°,λ-17.00000°. $M_0$6.92000×10^{14}

(227) Eastern Honshu

ISC IV 15 08 24 09.8–1.3 37.00N–.04 140.60E–.04 3–11 3.3b 21 0-61
ISCJB IV 15 08 24 10.4–.60 37.00N–.03 140.78E–.07 14–4 3.4b **¶600588667**
JMA IV 15 08 24 10.8 37.02N 140.69E 6–1 3.4
IDC IV 15 08 24 10.6–1.4 36.74N 140.79E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.6km az=16.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s86.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ_s261.00000°,δ34.00000°,λ-94.00000°. Principal axes: T Plg11.0000°,Azm174.0000°; N Plg2.0000°,Azm264.0000°; P Plg79.0000°,Azm6.0000°
IDC Error ellipse: s-maj=26.8km s-min=23.9km az=90.0.

(228) Near east coast of eastern Honshu

ISC IV 15 08 26 59.4–1.4 36.88N–.04 140.67E–.04 3–10 3.7b 31 0-147
IDC IV 15 08 26 58.8–.90 36.85N 140.76E 0 3.9,3.8 **¶17201109**
ISCJB IV 15 08 26 59.8–.62 36.91N–.03 140.75E–.05 17–5 3.7b,3.8
JMA IV 15 08 27 00.4 36.93N 140.66E 9–1 3.8,3.8
NIED IV 15 08 27 00 36.90N 140.70E 5 3.6W,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=18.0km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=16.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ73.00000°,λ-87.00000°. NP2:ϕ_s13.00000°,δ17.00000°,λ-98.00000°. Principal axes: T Plg28.0000°,Azm290.0000°; N Plg2.0000°,Azm21.0000°; P Plg62.0000°,Azm116.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ38.00000°,λ-115.00000°. NP2:ϕ_s169.00000°,δ56.00000°,λ-71.00000°. $M_0$2.41000×10^{14}

(573) Tanzania

ISC IV 15 08 49 33.0–.29 4.27S–.04 35.71E–.07 10 4.8b,4.0s 253 2-147
BJI IV 15 08 49 25.4 4.80S 34.82E 10 5.0b,4.8b **¶16436936**
ISCJB IV 15 08 49 31.3–.20 4.22S–.03 35.67E–.04 10 4.8b,4.0s
IDC IV 15 08 49 31.6–.43 4.22S 35.70E 0 4.6,4.5L
MOS IV 15 08 49 31.5–.90 4.17S 35.75E 10 4.9b,4.5L
NEIC IV 15 08 49 33.3–.15 4.25S 35.74E 10 4.9b,4.5L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=3.3.
IDC Error ellipse: s-maj=14.8km s-min=10.4km az=99.0.
MOS Error ellipse: s-maj=11.9km s-min=5.4km az=85.0.

NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=95.0. Felt [III] at Arusha. Also felt at Babati, Dodoma and Moshi. Felt [II] at Nairobi, Kenya. Also felt at Mombasa.

(227) Eastern Honshu

ISC	**IV**	**15 11 16 53.9–.94**	**37.04N–.03**	**140.64E–.04**	**10–8**		**22**	**0-57**
IDC	IV	15 11 16 52.1–1.8	37.00N	140.70E	0	3.5,3.4		**¶17201125**
ISCJB	IV	15 11 16 53.5–.55	37.03N–.03	140.73E–.07	15–6	3.2b,3.4		
JMA	IV	15 11 16 53.8	37.04N	140.64E	8–1	3.3,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=27.9km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.5km az=21.1.
JMA Event type fe.

(43) Southern California

ISC	**IV**	**15 11 48 54.8–.89**	**33.47N–.02**	**116.46W–.02**	**13–8**		**71**	**0-3**
ISCJB	IV	15 11 48 55.4–.36	33.44N–.01	116.44W–.02	5–3			**¶16587526**
ECX	IV	15 11 48 56.5–.60	33.46N	116.45W	6	2.9L,2.7		
NEIC	IV	15 11 48 56.4	33.46N	116.45W	6	3.0L,2.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.4km az=167.0.
ECX Error ellipse: s-maj=1.5km s-min=2.1km az=-1.0.
NEIC Event type fe. Felt [II] at La Quinta. Also felt at Cathedral City, Indian Wells, Loma Linda, Mountain Center, Palm Desert, San Clemente and San Diego. After PAS.

(284) South of Bali

ISC	**IV**	**15 11 59 12.1–.64**	**9.77S–.04**	**114.02E–.04**	**43–5**	**4.7b,3.9s**	**241**	**1-154**
IDC	IV	15 11 59 06.1–.41	9.59S	114.14E	0	4.6,4.6		**¶16437958**
BJI	IV	15 11 59 08.9	9.70S	114.20E	16	4.9b,4.8b		
MOS	IV	15 11 59 09.3–1.1	9.52S	114.19E	33	4.8b,4.8b		
NEIC	IV	15 11 59 11.9–.53	9.71S	114.01E	39–5	4.8b,4.8b		
DJA	IV	15 11 59 11.3–.20	10S–2.0	114E–1.0	10	5.4b,5.2		
ISCJB	IV	15 11 59 11.7–.41	9.71S–.03	114.03E–.02	57–3	4.7b,3.8s		
KLM	IV	15 11 59 14.0	9.94S	113.80E	44	5.7s,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=11.1km az=62.0.
MOS Error ellipse: s-maj=13.4km s-min=6.7km az=113.1.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=202.0. Felt [III] at Denpasar and Nusadua.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=21.6.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 12 43 05.6–1.4**	**40.33N–.06**	**142.28E–.10**	**46–12**	**3.8b**	**28**	**1-72**
NIED	IV	15 12 43 00	40.30N	142.30E	47	3.7W		**¶600588830**
ISCJB	IV	15 12 43 04.6–.92	40.34N–.05	142.3E–.10	54–7	3.7b		
JMA	IV	15 12 43 05.3–.10	40.32N	142.32E	36–1	4.1		
IDC	IV	15 12 43 07.6–2.5	40.34N	142.28E	67–22	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ27.00000°,λ54.00000°. NP2:ϕ_s14.00000°,δ68.00000°,λ107.00000°. $M_0$4.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=8.4km az=15.2.
JMA Event type fe.
IDC Error ellipse: s-maj=25.0km s-min=18.7km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 12 53 06.9–.79**	**37.48N–.03**	**141.23E–.05**	**24–5**	**4.5b,3.6s**	**158**	**0-147**
NIED	IV	15 12 53 00	37.40N	141.50E	5	4.4W,3.6s		**¶16437960**
IDC	IV	15 12 53 02.9–.53	37.38N	141.28E	0	4.5,4.4		
JMA	IV	15 12 53 04.2–.10	37.41N	141.49E	19–1	4.7,4.4		
ISCJB	IV	15 12 53 06.5–.48	37.41N–.03	141.25E–.04	33–4	4.4b,3.7s		
BJI	IV	15 12 53 08.4	37.62N	140.81E	25	4.8b,4.5b		
NEIC	IV	15 12 53 08.8–.32	37.47N	141.22E	35	4.6b,4.5b		
MOS	IV	15 12 53 08.1–.90	37.82N	141.08E	28	4.7b,4.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ52.00000°,λ-170.00000°. NP2:ϕ_s249.00000°,δ82.00000°,λ-39.00000°. $M_0$4.27000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=12.1km az=101.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=21.7.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=5.5km az=139.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=9.1km s-min=5.9km az=90.2.

(225) Off southeast coast of Hokkaido

ISC	**IV**	**15 13 15 21.9–1.5**	**42.77N–.04**	**146.18E–.04**	**0–8**	**4.6b,3.4s**	**146**	**1-84**
NIED	IV	15 13 15 00	42.70N	146.40E	23	4.2W,3.4s		**¶16505390**
IDC	IV	15 13 15 22.1–.77	42.83N	146.21E	0	4.4,4.3		
MOS	IV	15 13 15 23.1–1.3	42.74N	146.18E	23	4.8b,4.3		
SKHL	IV	15 13 15 24.4–.20	42.63N	146.31E	40–4	4.7b,4.3		
JMA	IV	15 13 15 24.4–.20	42.77N	146.31E	38–3	4.2,4.3		
ISCJB	IV	15 13 15 25.5–.78	42.77N–.04	146.20E–.05	40–5	4.4b,3.4s		
BJI	IV	15 13 15 25.0	42.70N	146.30E	30	4.8b,4.6b		
NEIC	IV	15 13 15 26.8–.54	42.76N	146.20E	35	4.4b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ65.00000°,λ156.00000°. NP2:ϕ_s9.00000°,δ68.00000°,λ27.00000°. $M_0$2.06000×10^{15}
IDC Error ellipse: s-maj=20.7km s-min=13.2km az=161.0.
MOS Error ellipse: s-maj=8.7km s-min=5.1km az=102.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=140.7.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=7.7km az=146.0. Recorded [1 JMA] in eastern Hokkaido.

(40) California-Nevada border region

ISC	**IV**	**15 13 33 55.0–1.1**	**38.39N–.02**	**118.73W–.02**	**3–9**	**3.5b**	**89**	**0-31**
IDC	IV	15 13 33 54.4–1.1	38.12N	118.76W	0	3.8,3.8L		**¶16440446**
NEIC	IV	15 13 33 55.9	38.40N	118.73W	13	4.3L,3.8W		

ISC Event type fe.
IDC Error ellipse: s-maj=11.9km s-min=6.8km az=156.0.
NEIC Event type fe. Felt [II] at Hawthorne. After REN. Moment Tensor Solution. s34 Moment tensor: Scale 10^{14}Nm; M_{rr}-6.29 $M_{\theta\theta}$1.37 $M_{\phi\phi}$4.92 $M_{r\theta}$1.67 $M_{\theta\phi}$0.31 $M_{\phi r}$-0.89 Best double couple: NP1:ϕ_s196.00000°,δ42.00000°,λ-72.00000°. NP2:ϕ_s352.00000°,δ50.00000°,λ-106.00000°. Principal axes: T 5.0000,Plg4.0000°,Azm93.0000° ; N 1.7100,Plg12.0000°,Azm2.0000°; P -6.7100,Plg77.0000°,Azm201.0000° $M_0$6.00000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 13 44 22.6–.85**	**37.04N–.04**	**141.27E–.06**	**43–7**	**4.0b,3.5s**	**75**	**0-147**
NIED	IV	15 13 44 00	37.10N	141.20E	50	4.2W,3.5s		**¶602557516**
MOS	IV	15 13 44 20.6–1.9	36.95N	141.44E	48	4.3b,3.5s		
ISCJB	IV	15 13 44 21.3–.47	37.03N–.03	141.31E–.05	52–4	4.0b,3.6s		
NEIC	IV	15 13 44 23.3–.70	37.03N	141.14E	48–7	4.1b,3.6s		
JMA	IV	15 13 44 23.6–.10	37.07N	141.14E	51–1	4.1,3.6s		
IDC	IV	15 13 44 24.7–1.9	37.04N	141.07E	58–19	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ26.00000°,λ58.00000°. NP2:ϕ_s61.00000°,δ69.00000°,λ104.00000°. $M_0$2.08000×10^{15}
MOS Error ellipse: s-maj=10.2km s-min=6.8km az=89.3.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=3.9km az=24.6.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=105.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=11.6km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 14 34 23.3–.32**	**39.15N–.03**	**142.42E–.03**	**20–2**	**5.0b,4.6s**	**732**	**1-155**
NIED	IV	15 14 34 00	39.10N	142.50E	26	4.9W,4.6s		**¶16437967**
GCMT	IV	15 14 34 22.1–.30	39.23N	142.39E	23–1	4.9W,4.6s		
NEIC	IV	15 14 34 22.1–.12	39.11N	142.29E	10	5.1b,4.6s		
BJI	IV	15 14 34 22.8	38.99N	142.33E	31	5.0b,4.8b		
MOS	IV	15 14 34 23.3–1.1	39.20N	142.36E	27	5.2b,4.8s		
JMA	IV	15 14 34 23.7–.10	39.17N	142.42E	31–1	5.0,4.8s		
ISCJB	IV	15 14 34 23.9–.51	39.13N–.02	142.33E–.02	31–3	4.9b,4.5s		
IDC	IV	15 14 34 26.9–1.8	39.12N	142.32E	43–16	4.8,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ34.00000°,λ-131.00000°. NP2:ϕ_s189.00000°,δ65.00000°,λ-66.00000°. $M_0$2.39000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c43; s75,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.11±.14 $M_{\theta\theta}$-0.33±.08; $M_{\phi\phi}$2.44±.09; $M_{r\theta}$1.34±.14; $M_{\theta\phi}$-0.52±.06; $M_{\phi r}$1.67±.13; Best double couple: NP1:ϕ_s198.00000°,δ67.00000°,λ-63.00000°. NP2:ϕ_s325.00000°,δ35.00000°,λ-137.00000°. Principal axes: T 2.9890,Plg18.0000°,Azm268.0000°; N 0.3500,Plg25.0000°,Azm7.0000° ; P -3.3430,Plg59.0000°,Azm146.0000° $M_0$3.16600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=137.0. Recorded [3 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=99.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s344.00000°,δ52.00000°,λ-102.00000°. NP2:ϕ_s182.00000°,δ40.00000°,λ-76.00000°. Principal axes: T Plg6.0000°,Azm82.0000°; N Plg9.0000°,Azm351.0000°; P Plg79.0000° ,Azm205.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=146.6.
IDC Error ellipse: s-maj=12.6km s-min=9.1km az=103.0.

(227) Eastern Honshu

JMA	**IV**	**15 14 37 59.6**	**37.00N**	**140.60E**	**8–1**	**3.5**		**¶600588938**

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**15 14 48 13.7–1.2**	**37.13N–.03**	**140.88E–.06**	**7–6**	**3.3b**	**22**	**0-61**
ISCJB	IV	15 14 48 12.0–.98	37.12N–.03	140.99E–.06	7–4	3.2b		**¶17201137**
IDC	IV	15 14 48 11.8–1.8	37.08N	141.07E	0	3.5,3.3L		
JMA	IV	15 14 48 13.7	37.14N	140.87E	8	3.5,3.3L		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.3km az=13.4.
IDC Error ellipse: s-maj=41.7km s-min=23.6km az=53.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 14 58 25.7–1.8**	**37.37N–.04**	**141.68E–.07**	**1–11**	**3.5b**	**27**	**1-77**
NIED	IV	15 14 58 00	37.40N	141.50E	14	3.5W		**¶600588967**
ISCJB	IV	15 14 58 26.7–1.0	37.34N–.03	141.68E–.07	19–7	3.4b		
JMA	IV	15 14 58 29.6–.10	37.37N	141.50E	32–2	3.9		
IDC	IV	15 14 58 41.3–2.5	36.83N	140.67E	91–23	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ45.00000°,λ-58.00000°. NP2:ϕ_s340.00000°,δ53.00000°,λ-118.00000°. $M_0$2.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=8.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.4km s-min=17.5km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 16 52 44.9–1.4**	**38.31N–.06**	**142.0E–.10**	**62–11**	**3.6b**	**25**	**1-62**
IDC	IV	15 16 52 38.4–1.6	38.13N	141.67E	0	3.7,3.6b		**¶600589064**
ISCJB	IV	15 16 52 44.1–.97	38.31N–.05	142.0E–.10	69–7	3.6b,3.6b		
JMA	IV	15 16 52 46.0–.10	38.33N	141.91E	60–1	3.7,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=21.4km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=6.4km az=20.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 17 07 54.1–.66**	**38.28N–.05**	**142.11E–.05**	**63–5**	**4.3b**	**130**	**1-82**
NIED	IV	15 17 07 00	38.30N	141.90E	74	4.0W		**¶16442650**
ISCJB	IV	15 17 07 53.0–.53	38.34N–.03	142.09E–.05	66–3	4.1b		
MOS	IV	15 17 07 53.2–.98	38.39N	142.05E	63	4.6b		
JMA	IV	15 17 07 55.9–.10	38.33N	141.89E	64–1	4.1		
NEIC	IV	15 17 07 55.6–.47	38.36N	141.98E	67–4	4.4b		
IDC	IV	15 17 07 55.1–.69	38.30N	141.91E	60–6	4.1,3.9		
BJI	IV	15 17 07 56.0	38.34N	141.70E	84	4.7b,4.4b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ46.00000°,λ8.00000°. NP2:ϕ_s241.00000°,δ84.00000°,λ136.00000°. $M_0$1.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=24.6.
MOS Error ellipse: s-maj=9.7km s-min=6.4km az=98.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=117.0.
IDC Error ellipse: s-maj=17.4km s-min=11.3km az=99.0.

(40) California-Nevada border region

ISC	**IV**	**15 17 24 25.7–.50**	**38.37N–.02**	**118.70W–.02**	**10**	**3.7b**	**170**	**0-101**
ISCJB	IV	15 17 24 25.7–.18	38.40N–.02	118.67W–.02	10	3.8b,3.0s		**¶16437973**
NEIC	IV	15 17 24 25.0	38.40N	118.74W	16	4.0L,4.0b		
IDC	IV	15 17 24 25.7–.85	38.42N	118.75W	0	4.0L,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=2.2km az=144.8.
NEIC Event type fe. Felt [II] at Hawthorne. Felt at Bridgeport and Mariposa, California. After REN. Moment Tensor Solution. s34 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.55 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$6.81 $M_{r\theta}$0.86 $M_{\theta\phi}$-0.50 $M_{\phi r}$-0.44 Best double couple: NP1:ϕ_s187.00000°,δ44.00000°,λ-75.00000°. NP2:ϕ_s346.00000°,δ48.00000°,λ-104.00000°. Principal axes: T 6.8600,Plg2.0000° ,Azm86.0000°; N -1.1300,Plg11.0000°,Azm356.0000°; P -5.7300,Plg79.0000° ,Azm188.0000° $M_0$6.40000×10^{14}
IDC Error ellipse: s-maj=14.4km s-min=5.9km az=13.0.

(256) Leyte

MAN	**IV**	**15 17 37 44**	**10.99N**	**124.52E**	**9**	**4.5b,3.4L**		**¶601669022**

MAN Event type fe. INTENSITY II - ORMOC CITY; ISABEL & MERIDA LEYTE.

(40) California-Nevada border region

ISC	**IV**	**15 18 21 32.1–.61**	**38.28N–.02**	**118.78W–.02**	**10**		**110**	**0-31**
NEIC	IV	15 18 21 31.9	38.39N	118.75W	10	4.0L,3.5W		**¶16587527**
ISCJB	IV	15 18 21 32.2–.24	38.40N–.02	118.73W–.02	10	2.7b,3.5W		
IDC	IV	15 18 21 33.1–1.1	38.53N	118.73W	0	3.7L,3.3		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Hawthorne. After REN. Moment Tensor Solution. s29 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.75 $M_{\theta\theta}$-1.18 $M_{\phi\phi}$1.92 $M_{r\theta}$0.96 $M_{\theta\phi}$-0.82 $M_{\phi r}$0.98 Best double couple: NP1:ϕ_s307.00000°,δ52.00000°,λ-161.00000°. NP2:ϕ_s205.00000° ,δ75.00000°,λ-40.00000°. Principal axes: T 2.3100,Plg15.0000°,Azm261.0000° ; N 0.0000,Plg48.0000°,Azm8.0000°; P -2.3200,Plg38.0000°,Azm159.0000° $M_0$2.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.7km az=18.5.
IDC Error ellipse: s-maj=16.8km s-min=6.3km az=29.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**15 19 27 04.6–.65**	**40.19N–.04**	**142.63E–.04**	**34–2**	**4.5b,4.1s**	**279**	**1-146**
NIED	IV	15 19 27 00	40.20N	142.60E	32	4.6W,4.1s		**¶16440079**
BJI	IV	15 19 27 00.7	40.05N	143.07E	45	4.9b,4.6b		
ISCJB	IV	15 19 27 04.2–.44	40.20N–.03	142.60E–.04	42–3	4.5b,4.1s		
JMA	IV	15 19 27 04.2–.10	40.18N	142.60E	27–2	4.6,4.1s		
MOS	IV	15 19 27 04.6–.96	40.26N	142.60E	44	4.8b,4.1s		
IDC	IV	15 19 27 06.8–1.5	40.18N	142.58E	49–14	4.3,4.2		
NEIC	IV	15 19 27 06.4–.49	40.21N	142.52E	46–4	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ29.00000°,λ68.00000°. NP2:ϕ_s33.00000°,δ64.00000°,λ102.00000°. $M_0$9.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=43.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=101.0.
IDC Error ellipse: s-maj=12.4km s-min=9.5km az=113.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=135.0.

(162) South Island

WEL	**IV**	**15 19 41 30.8–.08**	**43.58S**	**172.74E**	**9–0**	**3.7L**		**¶16440146**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

JMA	**IV**	**15 20 22 35.0–.10**	**38.39N**	**141.88E**	**57–1**	**3.5**		
NIED	IV	15 20 22 00	38.40N	141.90E	122	4.4W		**¶600589223**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ46.00000°,λ-174.00000°. NP2:ϕ_s346.00000°,δ86.00000°,λ-44.00000°. $M_0$4.92000×10^{15}

(229) Off east coast of Honshu

ISC	**IV**	**15 21 10 34.6–.95**	**37.29N–.03**	**142.49E–.03**	**8–5**	**5.0b,4.5s**	**817**	**1-146**
NIED	IV	15 21 10 00	37.30N	142.50E	20	4.9W,4.5s		**¶16440086**
BJI	IV	15 21 10 30.3	37.17N	142.90E	17	5.0b,5.0b		
ISCJB	IV	15 21 10 32.9–.75	37.23N–.02	142.48E–.02	5–4	5.0b,4.5s		
JMA	IV	15 21 10 32.6–.20	37.29N	142.51E	0	5.1,4.5s		
IDC	IV	15 21 10 35.5–3.8	37.25N	142.46E	12–23	4.8,4.8		
MOS	IV	15 21 10 36.5–1.1	37.30N	142.45E	28	5.2b,4.5s		
NEIC	IV	15 21 10 38.0–1.1	37.21N	142.41E	28–7	5.0b,4.5s		

GCMT IV 15 21 10 38.0–.30 37.42N 142.52E 15–1 5.0W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ59.00000°,λ-11.00000°. NP2:ϕ_s330.00000°,δ81.00000°,λ-148.00000°. $M_0$2.54000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=165.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.1km s-min=9.4km az=121.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=105.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s70,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.39±.14 $M_{\theta\theta}$-1.05±.10; $M_{\phi\phi}$2.44±.10; $M_{r\theta}$2.74±.42; $M_{\theta\phi}$0.97±.07; $M_{\phi r}$-3.04±.43; Best double couple: NP1:ϕ_s330.00000°,δ82.00000°,λ-117.00000°. NP2:ϕ_s224.00000°,δ28.00000°,λ-18.00000°. Principal axes: T 4.1730,Plg31.0000°,Azm82.0000°; N 0.9340,Plg27.0000°,Azm335.0000°; P -5.1070,Plg47.0000°,Azm212.0000° $M_0$4.64000×10^{16}

(2) Southern Alaska

ISC	**IV**	**15 23 03 36.1–.48**	**61.60N–.04**	**152.19W–.04**	**128–4**	**4.1b**	**201**	**0-147**
ISCJB	IV	15 23 03 34.6–.16	61.58N–.02	152.17W–.04	132–2	4.0b		**¶16440091**
NEIC	IV	15 23 03 36.6	61.58N	152.19W	125	4.4b		
IDC	IV	15 23 03 37.1–.84	61.70N	152.40W	132–7	4.2,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=143.6.
NEIC Event type fe. Felt at Anchorage. After AEIC.
IDC Error ellipse: s-maj=15.2km s-min=9.0km az=16.0.

(245) Northeast of Taiwan

ISC	**IV**	**16 01 11 10.9–.23**	**25.36N–.02**	**124.03E–.02**	**140–1**	**5.9b**	**2323**	**1-178**
NIED	IV	16 01 11 00	25.20N	124.00E	130	5.8W		**¶16440095**
MOS	IV	16 01 11 08.4–.94	25.53N	123.99E	124	5.9b,4.7s		
BJI	IV	16 01 11 08.4	25.30N	124.15E	131	6.0b,5.8b		
ISCJB	IV	16 01 11 09.8–.11	25.37N–.01	123.99E–.01	138–1	5.8b,5.8b		
TAP	IV	16 01 11 10.9	25.16N	124.03E	147–0	6.2L,5.8b		
GCMT	IV	16 01 11 10.7–.10	25.30N	123.98E	138–0	5.8W,5.8b		
NEIC	IV	16 01 11 10.4–.09	25.44N	123.90E	131	5.9b,5.8W		
NEIC	IV	16 01 11 10.0–.00	25.39N	124.22E	131	5.9b,5.8W		
IDC	IV	16 01 11 11.9–.37	25.42N	123.99E	144–2	5.8,5.5		
BKK	IV	16 01 11 11.1–.80	25N–5.0	124E–4.0	134–7	6.4,6.2		
JMA	IV	16 01 11 11.3–.10	25.21N	124.02E	137–3	5.8,6.2		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ19.00000°,λ-129.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ-78.00000°. $M_0$5.10000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=112.6.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.4km az=155.6.
TAP C.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c251; s119,c352;Duration: 1^{s}9 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.27±.05 $M_{\theta\theta}$-0.16±.06; $M_{\phi\phi}$2.43±.07; $M_{r\theta}$-3.87±.04; $M_{\theta\phi}$0.44±.06; $M_{\phi r}$-4.10±.04; Best double couple: NP1:ϕ_s40.00000°,δ80.00000°,λ-78.00000°. NP2:ϕ_s170.00000°,δ15.00000°,λ-139.00000°. Principal axes: T 5.8660,Plg34.0000°,Azm120.0000°; N 0.4920,Plg11.0000°,Azm218.0000°; P -6.3560,Plg54.0000°,Azm324.0000° $M_0$6.11100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.6km az=140.0. Felt [II] at Chatan, Okinawa. Also felt at Gushikawa and Ishigaki. Felt at Shulin, Taipei and Taoyuan, Taiwan. Recorded [2 JMA] in the Miyako-retto and Yaeyama-retto, Ryukyu Islands. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.19 $M_{\theta\theta}$1.25 $M_{\phi\phi}$1.94 $M_{r\theta}$-4.93 $M_{\theta\phi}$0.55 $M_{\phi r}$-4.59 Best double couple: NP1:ϕ_s46.00000°,δ79.00000°,λ-87.00000°. NP2:ϕ_s210.00000°,δ11.00000°,λ-105.00000°. Principal axes: T 6.7300,Plg34.0000°,Azm133.0000°; N 1.0600,Plg3.0000°,Azm225.0000°; P -7.7800,Plg56.0000°,Azm319.0000° $M_0$7.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ10.00000°,λ-90.00000°. NP2:ϕ_s55.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm145.0000°; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm325.0000°
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.00 $M_{\theta\theta}$0.06 $M_{\phi\phi}$1.95 $M_{r\theta}$-3.31 $M_{\theta\phi}$-0.16 $M_{\phi r}$-2.49 Best double couple: NP1:ϕ_s45.00000°,δ80.00000°,λ-76.00000°. NP2:ϕ_s171.00000°,δ17.00000°,λ-143.00000°. Principal axes: T 3.8300,Plg33.0000°,Azm123.0000°; N 1.2600,Plg13.0000°,Azm222.0000°; P -5.0900,Plg53.0000°,Azm330.0000° $M_0$4.60000×10^{17}
IDC Error ellipse: s-maj=7.2km s-min=5.9km az=71.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

(2) Southern Alaska

ISC	**IV**	**16 01 32 40.5–1.1**	**61.34N–.04**	**146.77W–.03**	**38–1**	**3.9b**	**98**	**0-75**
IDC	IV	16 01 32 28.5–2.0	60.41N	147.62W	0	3.8,3.8b		**¶16545153**
ISCJB	IV	16 01 32 40.4–.21	61.34N–.02	146.78W–.04	53–4	3.8b,3.8b		
NEIC	IV	16 01 32 42.1	61.36N	146.74W	27	3.6L,3.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=35.8km s-min=17.0km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=12.7.
NEIC Event type fe. Felt [III] at Valdez. After AEIC.

(227) Eastern Honshu

ISC	**IV**	**16 02 19 30.8–.24**	**36.39N–.02**	**139.85E–.02**	**78–1**	**6.0b**	**2519**	**0-166**
NIED	IV	16 02 19 00	36.40N	140.00E	80	5.8W		**¶16440099**
MOS	IV	16 02 19 24.1–.76	36.38N	139.72E	31	6.4b,5.2s		
BJI	IV	16 02 19 26.9	36.30N	139.90E	71	5.7b,5.7b		
NEIC	IV	16 02 19 29.0–.00	36.20N	140.08E	80	5.7b,5.7b		
GCMT	IV	16 02 19 30.8–.10	36.40N	140.00E	81–0	5.8W,5.7b		
NEIC	IV	16 02 19 30.8–.07	36.38N	139.65E	77	5.9b,5.8		
IDC	IV	16 02 19 31.2–.32	36.35N	139.79E	81–2	6.1,5.8		
JMA	IV	16 02 19 31.6	36.34N	139.95E	79–1	5.9,5.8		
ISCJB	IV	16 02 19 31.1–.15	36.35N–.01	139.78E–.01	91–1	5.9b,5.8		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ24.00000°,λ37.00000°. NP2:ϕ_s38.00000°,δ76.00000°,λ110.00000°. $M_0$5.02000×10^{17}
NEIC Event type se. Moment Tensor Solution. s44 Moment tensor: Scale 10^{17}Nm; M_{rr}2.30 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-2.70 $M_{r\theta}$3.30 $M_{\theta\phi}$-1.10 $M_{\phi r}$3.80 Best double couple: NP1:ϕ_s38.00000°,δ77.00000°,λ102.00000°. NP2:ϕ_s173.00000°,δ18.00000°,λ45.00000°. Principal axes: T 5.6000,Plg56.0000°,Azm325.0000°; N 0.2000,Plg12.0000°,Azm215.0000°; P -5.8000,Plg30.0000°,Azm118.0000° $M_0$6.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c248; s127,c342;Duration: 1^{s}9 Moment tensor: Scale 10^{17} Nm; M_{rr}3.34±.05 $M_{\theta\theta}$0.44±.05; $M_{\phi\phi}$-3.77±.05; $M_{r\theta}$3.17±.04; $M_{\theta\phi}$-1.13±.05; $M_{\phi r}$2.95±.04; Best double couple: NP1:ϕ_s38.00000°,δ71.00000°,λ109.00000°. NP2:ϕ_s171.00000°,δ27.00000°,λ46.00000°. Principal axes: T 5.7790,Plg59.0000°,Azm336.0000°; N -0.0960,Plg18.0000°,Azm212.0000°; P -5.6750,Plg24.0000°,Azm113.0000° $M_0$5.72700×10^{17}
NEIC Event type fe. Felt [IV] at Narita, Tokyo and Zushi and [III] at Atsugi, Yokohama and Yokosuka. Felt in much of Chiba, eastern Saitama, Kanagawa, southern Ibaraki and Tokyo. Recorded [5U JMA] in Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s67 Moment tensor: Scale 10^{17}Nm; M_{rr}4.44 $M_{\theta\theta}$-0.53 $M_{\phi\phi}$-3.91 $M_{r\theta}$3.68 $M_{\theta\phi}$-0.96 $M_{\phi r}$2.91 Best double couple: NP1:ϕ_s181.00000°,δ26.00000°,λ54.00000°. NP2:ϕ_s39.00000°,δ69.00000°,λ106.00000°. Principal axes: T 6.8400,Plg62.0000°,Azm334.0000°; N -1.0600,Plg15.0000°,Azm214.0000°; P -5.7700,Plg23.0000°,Azm117.0000° $M_0$6.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s186.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s40.00000°,δ75.00000°,λ100.00000°. Principal axes: T Plg59.0000°,Azm324.0000°; N Plg0.0000°,Azm0.0000°; P Plg29.0000°,Azm122.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000°,δ64.00000°,λ100.00000°. NP2:ϕ_s179.00000°,δ27.00000°,λ70.00000°. Principal axes: T Plg69.0000°,Azm312.0000°; N Plg9.0000°,Azm197.0000°; P Plg19.0000°,Azm104.0000°
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 03 22 39.5–.59**	**38.21N–.04**	**142.06E–.05**	**58–5**	**4.2b**	**121**	**1-151**
NIED	IV	16 03 22 00	38.20N	141.80E	56	4.1W		**¶16505404**
MOS	IV	16 03 22 37.8–1.2	38.29N	142.05E	54	4.4b		
ISCJB	IV	16 03 22 37.7–.52	38.22N–.03	142.05E–.05	55–4	4.1b,3.9s		
NEIC	IV	16 03 22 39.7–.63	38.20N	141.99E	56–6	4.3b,3.9s		
JMA	IV	16 03 22 40.2–.10	38.25N	141.84E	60–1	4.1,3.9s		
IDC	IV	16 03 22 40.4–.61	38.22N	141.81E	61–5	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ45.00000°,λ99.00000°. NP2:ϕ_s356.00000°,δ46.00000°,λ81.00000°. $M_0$1.87000×10^{15}
MOS Error ellipse: s-maj=9.4km s-min=6.1km az=78.9.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=27.4.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=11.2km az=108.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**16 03 32 17.5–.10**	**37.30N**	**141.32E**	**35–1**	**3.6**		**¶600589456**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 04 19 54.3–.47**	**37.61N–.04**	**141.65E–.04**	**52–4**	**4.5b,3.6s**	**231**	**1-152**
NIED	IV	16 04 19 00	37.60N	141.60E	56	4.4W,3.6s		**¶16440102**
BJI	IV	16 04 19 48.5	37.46N	141.75E	33	4.8b,4.6b		
MOS	IV	16 04 19 53.0–1.1	37.68N	141.62E	53	4.7b,4.6b		
ISCJB	IV	16 04 19 53.7–.45	37.64N–.03	141.54E–.04	58–3	4.5b,3.6s		
JMA	IV	16 04 19 54.2–.10	37.63N	141.58E	46–2	4.4,3.6s		
IDC	IV	16 04 19 54.9–.47	37.63N	141.53E	56–4	4.3,4.2		
NEIC	IV	16 04 19 55.6–.58	37.67N	141.48E	59–5	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ45.00000°,λ79.00000°. NP2:ϕ_s207.00000°,δ46.00000°,λ101.00000°. $M_0$5.06000×10^{15}
MOS Error ellipse: s-maj=7.7km s-min=5.4km az=93.4.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=38.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=9.5km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=139.0. Recorded [3 JMA] in Miyagi.

(594) Queensland

ISC	**IV**	**16 05 31 19.3–.27**	**20.01S–.04**	**147.68E–.04**	**10**	**5.2b,4.3s**	**354**	**1-153**
BJI	IV	16 05 31 15.1	19.95S	148.17E	7	5.1b,5.0b		**¶16440103**
IDC	IV	16 05 31 17.3–.54	19.89S	147.77E	0	4.9,4.8L		
ISCJB	IV	16 05 31 17.2–.20	20.06S–.03	147.68E–.03	10	5.1b,4.2s		
MOS	IV	16 05 31 18.0–1.3	19.88S	147.61E	10	5.2b,4.2s		
NEIC	IV	16 05 31 18.0	20.09S	147.76E	7	5.3L,5.2b		
AUST	IV	16 05 31 18.2–1.1	20.09S	147.76E	7–0	5.3L,5.2b		
GCMT	IV	16 05 31 18.0–.20	20.08S	147.77E	26–1	5.2W,5.2b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=11.9km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.7km az=165.8.
MOS Error ellipse: s-maj=9.3km s-min=7.3km az=109.7.
NEIC Event type fe. Felt [IV] at Ayr and Bowen; [III] at Charters Towers, Mackay, Moranbah and Townsville; [II] at Atherton, Brisbane, Emerald, Gold Coast, Ingham and Innisfail. Also felt at Bundaberg, Cairns, Coolum Beach, Maroochydore, Mooloolaba, Rockhampton, Toowoomba and Warwick. Felt at Casino, New South Wales. After AUST. Moment Tensor Solution. s7 Moment tensor: Scale 10^{16}Nm; M_{rr}0.01 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$0.09 $M_{r\theta}$-1.60 $M_{\theta\phi}$3.19 $M_{\phi r}$0.81 Best double couple: NP1:ϕ_s182.00000°,δ66.00000°,λ-170.00000°. NP2:ϕ_s88.00000°,δ81.00000°,λ-25.00000°. Principal axes: T 3.2900,Plg11.0000°,Azm137.0000°; N 0.6500,Plg64.0000°,Azm250.0000°; P -3.9500,Plg24.0000°,Azm42.0000° $M_0$3.70000×10^{16}
AUST Error ellipse: s-maj=0.9km s-min=0.3km az=30.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s53,c73; s87,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.95±.18 $M_{\theta\theta}$-0.25±.18; $M_{\phi\phi}$-0.69±.19; $M_{r\theta}$1.01±.35; $M_{\theta\phi}$6.33±.12; $M_{\phi r}$0.72±.34; Best double couple: NP1:ϕ_s92.00000°,δ82.00000°,λ10.00000°. NP2:ϕ_s0.00000°,δ80.00000°,λ171.00000°. Principal axes: T 6.1500,Plg13.0000°,Azm316.0000°; N 0.6610,Plg77.0000°,Azm130.0000°; P -6.8120,Plg1.0000°,Azm226.0000° $M_0$6.48100×10^{16}

(162) South Island

ISC	**IV**	**16 05 49 23.6–.30**	**43.57S–.03**	**172.81E–.04**	**10**	**5.2b,4.3s**	**309**	**0-165**
ISCJB	IV	16 05 49 20.6–.26	43.61S–.03	172.91E–.03	10	5.0b,4.3s		**¶16440104**
BJI	IV	16 05 49 21.8	43.90S	172.42E	7	5.4b,5.4b		
IDC	IV	16 05 49 21.8–.54	43.40S	172.77E	0	4.7,4.6		
NEIC	IV	16 05 49 22.2	43.61S	172.79E	11	5.3L,5.2b		
GCMT	IV	16 05 49 22.2–.20	43.59S	172.73E	12	5.0W,5.2b		
WEL	IV	16 05 49 22.7–.13	43.60S	172.76E	9–0	5.3L,5.2b		
MOS	IV	16 05 49 23.0–1.2	43.48S	172.54E	10	5.5b,5.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.1km az=142.0.
IDC Error ellipse: s-maj=17.9km s-min=12.8km az=167.0.
NEIC Event type fe. Felt [V] at Christchurch and [IV] at Rangiora. Also felt at Ashburton, Lyttelton, Oxford, Pleasant Point, Tai Tapu, Timaru and Woodend. After WEL. Moment Tensor Solution. s36 Moment tensor: Scale 10^{16}Nm; M_{rr}1.25 $M_{\theta\theta}$0.51 $M_{\phi\phi}$-1.76 $M_{r\theta}$1.65 $M_{\theta\phi}$-2.53 $M_{\phi r}$-0.33 Best double couple: NP1:ϕ_s174.00000°,δ58.00000°,λ23.00000°. NP2:ϕ_s71.00000°,δ71.00000°,λ146.00000°. Principal axes: T 3.3400,Plg37.0000°,Azm29.0000°; N 0.1400,Plg51.0000°,Azm226.0000°; P -3.4900,Plg8.0000°,Azm125.0000° $M_0$3.40000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s83,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.22±.10 $M_{\theta\theta}$0.32±.11; $M_{\phi\phi}$-1.55±.09; $M_{r\theta}$0.41±.26; $M_{\theta\phi}$-3.53±.07; $M_{\phi r}$0.82±.29; Best double couple: NP1:ϕ_s173.00000°,δ88.00000°,λ-10.00000°. NP2:ϕ_s263.00000°,δ80.00000°,λ-178.00000°. Principal axes: T 3.0550,Plg6.0000°,Azm218.0000°; N 1.3450,Plg79.0000°,Azm340.0000°; P -4.4090,Plg9.0000°,Azm127.0000° $M_0$3.73200×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt from Wairarapa to Southland, maximum reported intensity MM 8.
MOS Error ellipse: s-maj=16.7km s-min=11.5km az=129.4.

(594) Queensland

ISC	**IV**	**16 07 06 55.0–.84**	**20.34S–.06**	**147.60E–.09**	**10**	**4.3b**	**37**	**1-147**
ISCJB	IV	16 07 06 52.8–.63	20.37S–.05	147.57E–.06	10	4.4b		**¶16442662**
NEIC	IV	16 07 06 52.0	20.17S	147.68E	0	4.1L,4.0b		
AUST	IV	16 07 06 52.2–.36	20.17S	147.68E	0	4.1L,4.0b		
IDC	IV	16 07 06 52.2–1.9	20.37S	147.68E	0	3.9,3.9b		
BJI	IV	16 07 06 54.5	20.30S	147.60E	10	4.8b,4.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.7km az=139.5.
NEIC Event type fe. Felt [IV] at Bowen and [II] at Mackay and Townsville. Also felt at Atherton, Ayr, Emerald and Ingham. After AUST.
AUST Error ellipse: s-maj=5.9km s-min=1.8km az=20.0.
IDC Error ellipse: s-maj=37.4km s-min=20.0km az=15.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 07 20 21.8–.71**	**38.35N–.06**	**141.92E–.06**	**47–5**	**4.4b,3.3s**	**149**	**0-146**
MOS	IV	16 07 20 19.8–1.1	38.34N	141.98E	46	4.6b,3.3s		**¶16445554**
ISCJB	IV	16 07 20 19.8–.65	38.29N–.04	141.98E–.06	48–4	4.3b,3.3s		
BJI	IV	16 07 20 20.0	38.40N	141.90E	48	4.8b,4.5b		
JMA	IV	16 07 20 21.0–.10	38.30N	141.90E	47–2	4.1,4.5b		
IDC	IV	16 07 20 21.8–.73	38.30N	141.86E	50–6	4.2,4.1		
NEIC	IV	16 07 20 22.7–.82	38.27N	141.96E	61–6	4.5b,4.1		

ISC Event type se.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=93.8.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.7km az=30.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=117.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.0km az=127.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**16 07 24 38.0**	**36.94N**	**140.75E**	**14–1**	**3.6**		**¶600589588**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s152.00000°,δ65.00000°,λ-104.00000°. NP2:ϕ_s2.00000°,δ28.00000°,λ-63.00000°. Principal axes: T Plg19.0000°,Azm252.0000°; N Plg12.0000°,Azm158.0000°; P Plg67.0000°,Azm37.0000°

(227) Eastern Honshu

ISC	**IV**	**16 07 29 55.0–.92**	**37.03N–.03**	**140.62E–.04**	**15–6**	**3.5b**	**28**	**0-78**
NIED	IV	16 07 29 00	37.00N	140.60E	8	4.0W		**¶17201197**
ISCJB	IV	16 07 29 54.5–.45	37.02N–.03	140.69E–.05	24–3	3.6b		
JMA	IV	16 07 29 55.1	37.03N	140.61E	15–1	4.1		
IDC	IV	16 07 30 01.2–3.5	37.16N	140.66E	63–32	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ11.00000°,λ24.00000°. NP2:ϕ_s52.00000°,δ85.00000°,λ100.00000°. $M_0$1.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=23.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ69.00000°,λ108.00000°. NP2:ϕ_s187.00000°,δ28.00000°,λ51.00000°.

Principal axes: T Plg62.0000°,Azm348.0000°; N Plg17.0000°,Azm223.0000°; P Plg22.0000°,Azm126.0000°
IDC Error ellipse: s-maj=25.8km s-min=17.2km az=109.0.

(162) South Island

ISC	**IV**	**16 08 40 41.5–.96**	**43.57S–.04**	**172.81E–.04**	**12–6**		**85**	**0-149**
ISCJB	IV	16 08 40 40.9–.67	43.65S–.04	172.88E–.05	14–4	3.5s,3.2b		**¶16440149**
IDC	IV	16 08 40 41.3–1.8	43.24S	172.64E	0	3.6,3.5		
WEL	IV	16 08 40 43.0–.16	43.60S	172.76E	10–0	4.0L,3.5		
NEIC	IV	16 08 40 43.3	43.59S	172.72E	9	4.1L,3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=44.7.
IDC Error ellipse: s-maj=46.5km s-min=15.5km az=148.0.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in the Christchurch area. After WEL.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 09 34 59.6–.94**	**36.97N–.05**	**140.33E–.06**	**89–7**	**3.7b**	**34**	**0-61**
ISCJB	IV	16 09 34 58.2–.50	36.97N–.04	140.37E–.06	96–3	3.5b		**¶17201204**
IDC	IV	16 09 34 58.6–1.6	37.00N	140.42E	84–14	3.8,3.4		
JMA	IV	16 09 34 59.9–.10	36.97N	140.32E	86–1	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.6km az=25.6.
IDC Error ellipse: s-maj=25.0km s-min=10.9km az=85.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s316.00000°,δ68.00000°,λ-45.00000°. NP2: ϕ_s67.00000°,δ49.00000°,λ-150.00000°. Principal axes: T Plg11.0000°,Azm15.0000° ; N Plg41.0000°,Azm115.0000°; P Plg47.0000°,Azm273.0000°

(159) North Island

ISC	**IV**	**16 11 15 19.6–.61**	**38.43S–.04**	**175.89E–.04**	**196–5**	**3.7b**	**296**	**0-154**
BJI	IV	16 11 15 17.5	38.65S	176.61E	211	4.6b		**¶16440153**
ISCJB	IV	16 11 15 18.7–.24	38.38S–.02	175.88E–.04	200–2	3.8b		
IDC	IV	16 11 15 18.9–.54	38.39S	176.04E	188–6	4.1,3.6		
NEIC	IV	16 11 15 19.9	38.26S	175.99E	194	4.1b,3.6		
WEL	IV	16 11 15 20.4–.26	38.26S	176.00E	190–2	5.1L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=15.2.
IDC Error ellipse: s-maj=23.0km s-min=18.5km az=20.0.
NEIC Event type fe. Widely felt on the North Island. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.0km az=90.0. Felt between Bay of Plenty, Nelson and Gisborne, maximum reported intensity. MM 5.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 11 32 44.0–.84**	**36.56N–.04**	**141.01E–.06**	**26–6**	**3.8b**	**26**	**0-91**
ISCJB	IV	16 11 32 42.0–1.1	36.52N–.04	141.10E–.07	24–7	3.7b,3.2s		**¶17201214**
JMA	IV	16 11 32 43.0–.10	36.52N	141.03E	36–1	3.9,3.2s		
IDC	IV	16 11 32 44.3–.79	36.48N	140.95E	27–5	3.7,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.9km az=24.5.
JMA Event type fe.
IDC Error ellipse: s-maj=21.3km s-min=15.3km az=109.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 13 01 19.3–1.9**	**38.67N–.05**	**142.26E–.08**	**26–14**	**3.6b**	**27**	**1-89**
NIED	IV	16 13 01 00	38.70N	142.20E	47	3.8W		**¶600589804**
ISCJB	IV	16 13 01 19.2–1.2	38.67N–.05	142.30E–.09	38–12	3.6b,3.2s		
JMA	IV	16 13 01 20.9–.10	38.73N	142.19E	39–2	3.8,3.2s		
IDC	IV	16 13 01 21.3–2.7	38.63N	142.34E	39–25	3.8,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ62.00000°,λ-24.00000°. NP2:ϕ_s250.00000°,δ69.00000°,λ-150.00000°. $M_0$5.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.3km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=16.0km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 13 10 57.0–1.6**	**38.13N–.05**	**141.91E–.10**	**44–15**	**3.7b**	**32**	**1-89**
ISCJB	IV	16 13 10 56.9–.84	38.18N–.04	141.85E–.10	59–7	3.8b		**¶17201226**
IDC	IV	16 13 10 58.4–2.4	38.16N	141.85E	57–22	3.6,3.5		
JMA	IV	16 13 10 58.2–.10	38.18N	141.77E	55–1	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.6km az=17.4.
IDC Error ellipse: s-maj=25.6km s-min=15.8km az=89.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 13 22 52.1–3.3**	**37.48N–.06**	**141.5E–.10**	**2–18**		**15**	**1-58**
NIED	IV	16 13 22 00	37.50N	141.30E	20	3.5W		**¶17201227**
JMA	IV	16 13 22 56.2–.10	37.47N	141.32E	28–1	3.5		
IDC	IV	16 13 22 56.7–1.6	36.77N	141.37E	0	3.7,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ58.00000°,λ-146.00000°. NP2:ϕ_s177.00000°,δ62.00000°,λ-37.00000°. $M_0$1.85000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=40.0km s-min=26.8km az=150.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 13 36 37.7–.84**	**39.58N–.04**	**142.07E–.09**	**50–7**	**3.9b**	**40**	**0-81**
NIED	IV	16 13 36 00	39.60N	142.10E	56	3.8W		**¶16505407**
ISCJB	IV	16 13 36 36.6–.62	39.57N–.04	142.15E–.09	57–4	3.8b		
JMA	IV	16 13 36 38.0–.10	39.64N	142.10E	48–1	3.8		
IDC	IV	16 13 36 41.9–2.1	39.48N	142.02E	92–19	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ52.00000°,λ-173.00000°. NP2:ϕ_s282.00000°,δ84.00000°,λ-39.00000°. $M_0$5.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.2km az=9.7.
JMA Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=13.3km az=100.0.

(243) Taiwan region

ISC	**IV**	**16 13 39 51.7–1.1**	**23.96N–.02**	**122.83E–.02**	**6–7**	**4.1b,3.4s**	**198**	**1-96**
IDC	IV	16 13 39 51.0–.54	24.15N	122.96E	0	4.1,4.0		**¶16591743**
BJI	IV	16 13 39 53.1	23.95N	122.87E	12	4.5b,4.1b		
TAP	IV	16 13 39 53.4	24.01N	122.90E	26–0	4.7L,4.1b		
JMA	IV	16 13 39 53.7–.20	24.00N	122.85E	20–3	4.6,4.1b		
NEIC	IV	16 13 39 55.9–.46	24.03N	122.83E	35	4.0b,4.1b		

ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=12.4km az=83.0.
TAP C.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=7.4km az=142.0. Recorded [1 TAP] in Yilan. Recorded [1 JMA] on Yonaguni-jima, Ryukyu Islands.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 13 52 21.7–1.2**	**38.27N–.04**	**141.96E–.08**	**41–12**	**3.9b**	**40**	**1-146**
NIED	IV	16 13 52 00	38.30N	141.80E	65	4.0W		**¶600589868**
ISCJB	IV	16 13 52 21.8–.73	38.31N–.04	141.85E–.08	56–6	3.8b,3.6s		
JMA	IV	16 13 52 23.0–.10	38.33N	141.75E	57–1	4.1,3.6s		
IDC	IV	16 13 52 23.7–2.7	38.27N	141.78E	60–25	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ31.00000°,λ100.00000°. NP2:ϕ_s218.00000°,δ59.00000°,λ84.00000°. $M_0$1.26000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.9km az=19.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.4km s-min=14.9km az=94.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 14 08 19.3–.71**	**36.17N–.05**	**141.16E–.07**	**31**	**3.5b**	**20**	**1-78**
NIED	IV	16 14 08 00	36.10N	141.10E	29	3.6W		**¶600589882**
IDC	IV	16 14 08 14.7–.80	36.06N	141.36E	0	3.7,3.6		
ISCJB	IV	16 14 08 17.8–.60	36.18N–.04	141.20E–.06	31	3.4b,3.6		
JMA	IV	16 14 08 19.5–.10	36.12N	141.08E	42–2	3.5,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ42.00000°,λ-66.00000°. NP2:ϕ_s196.00000°,δ52.00000°,λ-111.00000°. $M_0$2.40000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=17.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.1km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 15 14 18.5–1.1**	**36.87N–.03**	**140.70E–.05**	**9–7**	**3.7b**	**41**	**0-147**
NIED	IV	16 15 14 00	36.90N	140.70E	5	3.7W		**¶17201236**
ISCJB	IV	16 15 14 17.7–.76	36.86N–.03	140.82E–.05	13–4	3.7b		
IDC	IV	16 15 14 17.1–.57	36.87N	140.71E	0	4.0,3.8		
JMA	IV	16 15 14 18.6	36.88N	140.69E	7	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ26.00000°,λ-58.00000°. NP2:ϕ_s153.00000°,δ68.00000°,λ-104.00000°. $M_0$4.50000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.5km az=25.0.
IDC Error ellipse: s-maj=17.9km s-min=12.9km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s158.00000°,δ78.00000°,λ-91.00000°. NP2:ϕ_s343.00000°,δ12.00000°,λ-86.00000°. Principal axes: T Plg33.0000°,Azm249.0000°; N Plg1.0000°,Azm158.0000°; P Plg57.0000°,Azm67.0000°

(227) Eastern Honshu

ISC	**IV**	**16 15 56 22.7–.51**	**37.00N–.03**	**138.70E–.02**	**8–2**	**4.7b,4.1s**	**336**	**0-149**
NIED	IV	16 15 56 00	37.10N	138.70E	5	4.7W,4.1s		**¶16442663**
ISCJB	IV	16 15 56 21.7–.40	37.02N–.02	138.65E–.02	11–2	4.5b,4.1s		
IDC	IV	16 15 56 21.1–.41	37.06N	138.64E	0	4.4,4.3L		
BJI	IV	16 15 56 22.8	37.10N	138.60E	9	4.9b,4.6s		
JMA	IV	16 15 56 22.4	37.02N	138.69E	8–2	4.9,4.6s		
MOS	IV	16 15 56 23.0–1.3	36.94N	138.62E	23	4.9b,4.1s		
NEIC	IV	16 15 56 23.8–.93	36.98N	138.55E	17–6	4.7b,4.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ43.00000°,λ117.00000°. NP2:ϕ_s217.00000°,δ52.00000°,λ67.00000°. $M_0$1.16000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=155.4.
IDC Error ellipse: s-maj=12.7km s-min=6.6km az=112.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s85.00000° ,δ66.00000°,λ-122.00000°. NP2:ϕ_s322.00000°,δ39.00000°,λ-41.00000°. Principal axes: T Plg15.0000°,Azm198.0000°; N Plg29.0000°,Azm100.0000°; P Plg57.0000°,Azm312.0000°
MOS Error ellipse: s-maj=7.2km s-min=4.5km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=5.0km az=153.0. Recorded [5L JMA] in Niigata.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 16 01 09.7–1.5**	**38.32N–.05**	**142.0E–.10**	**57–11**	**3.7b**	**34**	**1-68**
ISCJB	IV	16 16 01 08.8–.89	38.32N–.04	142.00E–.10	69–6	3.6b		**¶17201242**
IDC	IV	16 16 01 08.6–2.4	38.37N	142.27E	58–19	3.7,3.6		
JMA	IV	16 16 01 10.8–.10	38.34N	141.88E	63–1	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=5.9km az=15.8.
IDC Error ellipse: s-maj=36.9km s-min=14.9km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 16 21 17.6–1.1**	**38.66N–.04**	**141.75E–.08**	**49–8**	**3.4b**	**28**	**0-62**
ISCJB	IV	16 16 21 16.4–.71	38.67N–.04	141.74E–.09	59–5	3.5b		**¶17201244**
IDC	IV	16 16 21 17.9–2.1	38.71N	141.77E	59–21	3.7,3.7L		
JMA	IV	16 16 21 18.0–.10	38.68N	141.63E	55–1	3.8,3.7L		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.8km az=14.5.
IDC Error ellipse: s-maj=35.1km s-min=14.1km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(117) Southern Peru

NEIC	**IV**	**16 17 01 39.0**	**15.89S**	**72.82W**	**44**	**4.2**		**¶16631124**

NEIC Event type fe. Felt [III] at Chuquibamba and Pampacolca. After ARE.

(228) Near east coast of eastern Honshu

JMA	**IV**	**16 18 03 00.8–.10**	**35.86N**	**140.93E**	**15–1**	**3.7**		
NIED	IV	16 18 03 00	35.90N	140.90E	8	3.6W		**¶600590059**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ37.00000°,λ-47.00000°. NP2:ϕ_s149.00000°,δ64.00000°,λ-117.00000°. $M_0$2.60000×10^{14}

(162) South Island

WEL	**IV**	**16 18 12 04.3–.06**	**43.58S**	**172.62E**	**8–0**	**3.5L**		**¶601003847**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(226) Near west coast of eastern Honshu

ISC	**IV**	**16 19 17 51.7–1.0**	**37.03N–.03**	**138.70E–.03**	**9–9**	**3.7b,2.9s**	**26**	**0-77**
IDC	IV	16 19 17 50.2–1.3	37.07N	138.71E	0	3.8,3.6		**¶602557542**
ISCJB	IV	16 19 17 51.7–.44	37.04N–.03	138.68E–.04	24–5	3.7b,3.2s		
JMA	IV	16 19 17 52.1	37.03N	138.69E	8–2	3.2,3.2s		

ISC Event type ke.
IDC Error ellipse: s-maj=11.3km s-min=11.0km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.1km az=137.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s191.00000°,δ72.00000°,λ39.00000°. NP2:ϕ_s87.00000°,δ53.00000°,λ157.00000°. Principal axes: T Plg40.0000°,Azm55.0000°; N Plg48.0000°,Azm212.0000°; P Plg12.0000°,Azm315.0000°

(227) Eastern Honshu

ISC	**IV**	**16 20 19 16.9–.89**	**37.09N–.03**	**140.88E–.04**	**13–5**	**4.6b,4.3s**	**228**	**0-147**
NIED	IV	16 20 19 00	37.10N	140.90E	5	4.2W,4.3s		**¶602557523**
ISCJB	IV	16 20 19 15.7–.75	37.09N–.03	140.88E–.04	14–4	4.5b,4.1s		
IDC	IV	16 20 19 15.0–.48	37.08N	140.82E	0	4.3,4.3b		
BJI	IV	16 20 19 16.9	36.87N	140.97E	34	4.9b,4.5b		
JMA	IV	16 20 19 16.4	37.10N	140.83E	8–1	4.5,4.5b		
MOS	IV	16 20 19 17.6–1.1	37.15N	140.82E	25	4.8b,4.5b		
NEIC	IV	16 20 19 18.9–1.3	37.09N	140.85E	25–9	4.7b,4.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ26.00000°,λ-77.00000°. NP2:ϕ_s241.00000°,δ64.00000°,λ-96.00000°. $M_0$2.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=33.0.
IDC Error ellipse: s-maj=14.5km s-min=10.7km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s238.00000°,δ58.00000°,λ-98.00000°. NP2:ϕ_s74.00000°,δ32.00000°,λ-77.00000°. Principal axes: T Plg13.0000°,Azm334.0000°; N Plg7.0000°,Azm242.0000°; P Plg75.0000°,Azm125.0000°
MOS Error ellipse: s-maj=8.1km s-min=5.6km az=110.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=129.0. Recorded [3 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**16 20 21 32.0–.57**	**36.19N–.04**	**141.09E–.04**	**43–4**	**4.9b,4.0s**	**510**	**1-148**
NIED	IV	16 20 21 00	36.20N	141.00E	53	4.7W,4.0s		**¶16442380**
BJI	IV	16 20 21 29.8	36.10N	141.10E	49	4.8b,4.7b		
ISCJB	IV	16 20 21 32.2–.38	36.14N–.03	140.94E–.03	54–3	4.8b,4.0s		
JMA	IV	16 20 21 32.5–.10	36.18N	140.97E	52–1	4.7,4.0s		
MOS	IV	16 20 21 33.8–.76	36.59N	140.91E	50	5.1b,4.0s		
NEIC	IV	16 20 21 34.4–.53	36.13N	140.89E	62–4	4.8b,4.0s		
IDC	IV	16 20 21 34.4–1.5	36.16N	140.90E	59–13	4.6,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ31.00000°,λ-144.00000°. NP2:ϕ_s339.00000°,δ72.00000°,λ-64.00000°. $M_0$1.30000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=151.3.
JMA Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=109.1.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=154.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=12.9km s-min=8.0km az=96.0.

(89) Mona Passage

ISC	**IV**	**16 20 28 15.9–1.2**	**19.07N–.03**	**66.94W–.03**	**14–7**	**4.6b,3.1s**	**401**	**1-130**
IDC	IV	16 20 28 14.0–.57	19.06N	66.97W	0	4.3,4.2		**¶16442381**
ISCJB	IV	16 20 28 16.8–.65	19.09N–.02	66.96W–.02	31–5	4.5b,3.3s		
NEIC	IV	16 20 28 17.0	19.22N	67.01W	18	4.6b,4.4		
RSPR	IV	16 20 28 17.0	19.22N	67.01W	18–7	4.4,4.4		
BJI	IV	16 20 28 19.8	19.00N	67.00W	49	4.9s,4.5		

ISC Event type fe.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=39.7.
NEIC Event type fe. Felt [III] at Mayaguez. Felt widely in northwestern Puerto Rico. After RSPR. Moment Tensor Solution. s14 Moment tensor: Scale 10^{15}Nm; M_{rr}0.74 $M_{\theta\theta}$-1.62 $M_{\phi\phi}$0.88 $M_{r\theta}$-1.17 $M_{\theta\phi}$-1.20 $M_{\phi r}$3.92 Best double couple: NP1:ϕ_s268.00000°,δ10.00000°,λ-172.00000°. NP2:ϕ_s170.00000°,δ89.00000°,λ-80.00000°. Principal axes: T 5.1500,Plg43.0000° ,Azm251.0000°; N -2.0400,Plg10.0000°,Azm350.0000°; P -3.1100,Plg45.0000°

,Azm90.0000° $M_0$4.50000×10^{15}
RSPR Event type ke.
(229) Off east coast of Honshu
ISC IV 16 20 36 47.9–.34 36.87N–.03 143.90E–.03 25–1 5.8b,4.9s 1922 2-164
NIED IV 16 20 36 00 36.90N 143.80E 8 5.4W,4.9s **¶16442382**
IDC IV 16 20 36 44.0–.34 36.88N 144.03E 0 5.4,5.3
GCMT IV 16 20 36 46.3–.10 36.95N 143.92E 12 5.5W,5.3
NEIC IV 16 20 36 46.3–1.2 36.88N 143.92E 15–7 5.8b,5.5W
ISCJB IV 16 20 36 47.9–.07 36.80N–.02 143.94E–.01 36 5.7b,5.0s
MOS IV 16 20 36 47.7–.84 37.14N 143.93E 25 5.9b,5.0s
JMA IV 16 20 36 48.1–.30 36.94N 143.76E 54 5.4,5.0s
BJI IV 16 20 36 49.2 37.14N 143.43E 22 5.5b,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ31.00000°,λ-95.00000°. NP2:ϕ_s243.00000°,δ60.00000°,λ-87.00000°. $M_0$1.54000×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=100.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c176; s119,c304;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.75±.02 $M_{\theta\theta}$1.41±.02; $M_{\phi\phi}$0.34±.02; $M_{r\theta}$0.42±.04; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.91±.05; Best double couple: NP1:ϕ_s225.00000° ,δ59.00000°,λ-108.00000°. NP2:ϕ_s78.00000°,δ35.00000°,λ-63.00000°. Principal axes: T 2.0230,Plg13.0000°,Azm328.0000°; N 0.0750,Plg15.0000°,Azm235.0000° ; P -2.0960,Plg70.0000°,Azm96.0000° $M_0$2.06000×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=1.9km az=151.0. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.62 $M_{\theta\theta}$1.51 $M_{\phi\phi}$0.11 $M_{r\theta}$0.40 $M_{\theta\phi}$0.96 $M_{\phi r}$0.59 Best double couple: NP1:ϕ_s77.00000°,δ37.00000°,λ-68.00000°. NP2:ϕ_s230.00000° ,δ56.00000°,λ-106.00000°. Principal axes: T 2.1000,Plg10.0000°,Azm332.0000° ; N -0.3000,Plg13.0000°,Azm239.0000°; P -1.8100,Plg74.0000°,Azm97.0000° $M_0$2.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.5km az=163.3.
MOS Error ellipse: s-maj=5.5km s-min=3.5km az=109.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
(502) Arkansas
ISC IV 16 20 44 41.7–.91 35.37N–.02 92.67W–.01 11–7 127 0-9
ISCJB IV 16 20 44 41.5–.37 35.35N–.01 92.67W–.02 4–3 **¶16476056**
NEIC IV 16 20 44 42.0 35.35N 92.67W 3 3.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.2km az=4.4.
NEIC Event type fe. Felt at Cabot and Solgohachia. After CERI.
(228) Near east coast of eastern Honshu
ISC IV 16 20 54 09.3–1.0 38.63N–.05 141.96E–.06 48–8 4.2b 104 1-89
NIED IV 16 20 54 00 38.60N 141.90E 53 4.3W **¶16450740**
BJI IV 16 20 54 08.3 38.86N 141.48E 27 5.1b,4.5b
MOS IV 16 20 54 08.7–.95 38.69N 141.93E 56 4.6b,4.5b
ISCJB IV 16 20 54 08.9–.51 38.65N–.03 141.88E–.06 57–3 4.2b,3.2s
JMA IV 16 20 54 09.9–.10 38.64N 141.89E 49–1 4.0,3.2s
IDC IV 16 20 54 10.7–2.0 38.63N 141.87E 58–17 4.0,3.9
NEIC IV 16 20 54 11.8–.88 38.85N 141.51E 45–9 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ24.00000°,λ94.00000°. NP2:ϕ_s11.00000°,δ66.00000°,λ88.00000°. $M_0$2.89000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=7.0km az=91.6.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.5km az=27.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=12.7km az=119.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=8.4km az=122.0.
(228) Near east coast of eastern Honshu
ISC IV 16 21 29 37.5–1.6 38.27N–.05 142.0E–.10 47–16 3.4b 29 1-62
IDC IV 16 21 29 36.9–2.9 38.24N 142.07E 43–24 3.7,3.6 **¶17201263**
ISCJB IV 16 21 29 37.1–.92 38.29N–.05 142.0E–.10 63–8 3.5b,3.6
JMA IV 16 21 29 39.1–.10 38.32N 141.81E 58–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=44.0km s-min=16.1km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.3km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(460) Wyoming
ISC IV 16 21 57 44.8–.76 43.94N–.03 105.31W–.03 0 43 1-19
IDC IV 16 21 57 41.0–2.5 43.79N 105.48W 0 4.1L,3.1 **¶17201265**
ISCJB IV 16 21 57 43.8–.40 43.97N–.03 105.28W–.03 0 4.1L,3.1
NEIC IV 16 21 57 44.5–.67 43.99N 105.30W 0 3.0L,3.1
ISC Event type sm.
IDC Error ellipse: s-maj=29.5km s-min=18.0km az=148.0.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=3.0km az=19.5.
NEIC Event type fm. Error ellipse: s-maj=10.7km s-min=8.3km az=197.0. 37 km [23 miles] SSE of Gillette. Suspected Mining explosion.
(134) Off coast of central Chile
ISC IV 16 21 58 18.1–2.0 38.14S–.05 73.98W–.09 9–12 4.1s,3.7b 32 1-170
IDC IV 16 21 58 17.8–1.7 38.12S 73.59W 0 4.2,4.2s **¶16462837**
NEIC IV 16 21 58 18.0 38.19S 74.04W 41 4.2b,4.2s
GUC IV 16 21 58 18.3–.68 38.19S 74.04W 41–5 4.1L,4.2s
ISC Event type fe.
IDC Error ellipse: s-maj=50.3km s-min=19.0km az=56.0.
NEIC Event type fe. Felt [III] at Tirua and [II] at Puerto Saavedra. After GUC.
GUC Error ellipse: s-maj=2.2km s-min=12.4km az=-1.0.
(227) Eastern Honshu
JMA IV 16 23 01 23.1 37.02N 140.59E 7–1 3.5 ¶600590290
JMA Event type fe.
(40) California-Nevada border region
ISC IV 17 00 45 36.9–1.0 38.41N–.02 118.73W–.02 1–7 4.4b,4.1s 197 0-149
NEIC IV 17 00 45 37.0 38.39N 118.73W 15 4.6L,4.5W **¶16442391**
GCMT IV 17 00 45 37.0–.40 38.47N 118.71W 13–1 4.8W,4.5W
IDC IV 17 00 45 37.9–.52 38.38N 118.70W 0 4.4,4.3b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hawthorne. Also felt at Reno. Felt at Lee Vining, California. After REN. Moment Tensor Solution. $M_0$6.80000×10^{15}
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c22; s73,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.13 $M_{\theta\theta}$0.09±.08; $M_{\phi\phi}$1.42±.09; $M_{r\theta}$0.92±.29; $M_{\theta\phi}$0.34±.06; $M_{\phi r}$-1.00±.26; Best double couple: NP1:ϕ_s344.00000°,δ65.00000° ,λ-115.00000°. NP2:ϕ_s212.00000°,δ35.00000°,λ-48.00000°. Principal axes: T 1.7300,Plg16.0000°,Azm92.0000°; N 0.4990,Plg23.0000°,Azm355.0000° ; P -2.2320,Plg61.0000°,Azm215.0000° $M_0$1.98100×10^{16}
IDC Error ellipse: s-maj=8.0km s-min=5.3km az=7.0.
(40) California-Nevada border region
ISC IV 17 00 55 47.8–.67 38.27N–.03 118.79W–.03 10 3.3s 64 0-31
NEIC IV 17 00 55 46.3 38.37N 118.73W 13 4.1L,4.0W **¶16442393**
IDC IV 17 00 55 47.0–.89 38.32N 118.69W 0 4.0,3.7L
ISCJB IV 17 00 55 47.4–.26 38.30N–.02 118.71W–.03 10 3.5b,3.4s
ISC Event type fe.
NEIC Event type fe. Felt at Hawthorne. After REN. Moment Tensor Solution. $M_0$1.30000×10^{15}
ISCJB Event type fe.
(40) California-Nevada border region
ISC IV 17 01 19 25.1–1.2 38.43N–.02 118.74W–.03 1–10 55 0-24
IDC IV 17 01 19 25.7–1.9 38.42N 118.80W 0 3.4,3.3L **¶16545154**
NEIC IV 17 01 19 26.2 38.40N 118.74W 12 3.7L,3.3L
ISC Event type fe.
IDC Error ellipse: s-maj=20.9km s-min=11.5km az=13.0.
NEIC Event type fe. Felt at Hawthorne. After REN.
(228) Near east coast of eastern Honshu
ISC IV 17 01 37 50.4–.46 38.62N–.04 142.41E–.03 31–2 4.6b,4.0s 296 1-149
NIED IV 17 01 37 00 38.70N 142.40E 47 4.7W,4.0s **¶16442399**
BJI IV 17 01 37 48.9 38.60N 142.42E 36 4.9b,4.7b
MOS IV 17 01 37 50.6–1.1 38.74N 142.30E 39 5.0b,4.7b
NEIC IV 17 01 37 51.5–.65 38.61N 142.22E 36–5 4.7b,4.7b
JMA IV 17 01 37 51.1–.10 38.65N 142.37E 38–1 4.8,4.7b
ISCJB IV 17 01 37 51.5–.46 38.68N–.03 142.31E–.04 48–3 4.6b,3.8s
IDC IV 17 01 37 53.0–1.9 38.64N 142.26E 52–16 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ27.00000°,λ59.00000°. NP2:ϕ_s204.00000°,δ68.00000°,λ104.00000°. $M_0$1.11000×10^{16}
MOS Error ellipse: s-maj=7.7km s-min=5.0km az=95.6.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=149.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=44.2.
IDC Error ellipse: s-maj=13.6km s-min=12.1km az=120.0.
(228) Near east coast of eastern Honshu
JMA IV 17 02 21 26.0–.10 38.27N 141.52E 18–1 3.9
NIED IV 17 02 21 00 38.30N 141.50E 11 3.6W **¶600590406**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ54.00000°,λ137.00000°. NP2:ϕ_s82.00000°,δ56.00000°,λ45.00000°. $M_0$3.14000×10^{14}
(228) Near east coast of eastern Honshu
JMA IV 17 02 35 24.3–.10 38.42N 142.10E 31–2 3.7 ¶600590413
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(161) Off west coast of South Island
WEL IV 17 02 48 10.3–.59 45.98S 166.15E 12 4.4L
NEIC IV 17 02 48 09.6 46.03S 166.09E 17 4.4L **¶16442671**
WEL Event type fe. Error ellipse: s-maj=5.6km s-min=2.3km az=90.0. Felt from Canterbury to Southland, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
(228) Near east coast of eastern Honshu
ISC IV 17 03 43 58.3–1.3 36.88N–.04 140.62E–.05 2–9 3.7b 25 0-91
NIED IV 17 03 43 00 36.90N 140.60E 8 3.5W **¶17201278**
IDC IV 17 03 43 57.5–.90 36.69N 140.67E 0 3.9,3.6
ISCJB IV 17 03 43 58.5–.75 36.83N–.04 140.67E–.05 15–6 3.6b,3.2s
JMA IV 17 03 43 59.0 36.86N 140.59E 9–1 3.7,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ46.00000°,λ-115.00000°. NP2:ϕ_s18.00000°,δ49.00000°,λ-67.00000°. $M_0$2.26000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=20.8km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.1km az=31.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ73.00000°,λ-82.00000°. NP2:ϕ_s355.00000°,δ19.00000°,λ-116.00000°. Principal axes: T Plg28.0000°,Azm285.0000°; N Plg8.0000°,Azm19.0000°; P Plg61.0000° ,Azm124.0000°
(228) Near east coast of eastern Honshu
JMA IV 17 03 45 04.3 36.83N 140.62E 5–1 3.5 ¶600590445
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 17 04 23 22.6–1.9 36.35N–.08 140.81E–.08 24–12 3.8b 26 0-117
NIED IV 17 04 23 00 36.30N 140.80E 11 3.7W **¶16707161**
IDC IV 17 04 23 17.8–.80 36.10N 140.81E 0 3.9,3.7
ISCJB IV 17 04 23 22.2–1.4 36.29N–.08 140.83E–.09 36–9 3.7b,3.7
JMA IV 17 04 23 22.7 36.27N 140.78E 37–1 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ20.00000°,λ31.00000°. NP2:ϕ_s39.00000°,δ80.00000°,λ107.00000°. $M_0$4.27000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=19.4km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=16.1km s-min=7.0km az=138.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 17 04 23 57.0–.51 38.37N–.04 142.07E–.05 63–4 4.3b 108 1-146
BJI IV 17 04 23 43.6 39.10N 143.50E 33 4.8b,4.5b **¶17201281**
MOS IV 17 04 23 55.3–1.0 38.47N 142.00E 58 4.5b,4.5b
ISCJB IV 17 04 23 55.7–.52 38.38N–.03 142.01E–.05 63–4 4.2b,4.5b
JMA IV 17 04 23 57.6–.10 38.40N 141.91E 59–1 4.3,4.5b
NEIC IV 17 04 23 57.3–.64 38.41N 141.93E 60–6 4.4b,4.5b
IDC IV 17 04 23 57.7–.53 38.41N 141.81E 62–4 4.2,4.1
ISC Event type se.
MOS Error ellipse: s-maj=10.3km s-min=6.7km az=79.1.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.5km az=28.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=130.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=13.8km s-min=10.9km az=127.0.
(228) Near east coast of eastern Honshu
ISC IV 17 04 38 59.4–.58 35.83N–.03 140.48E–.04 26–3 4.5b,3.7s 213 0-153
NIED IV 17 04 38 00 35.90N 140.50E 50 4.6W,3.7s **¶16442672**
IDC IV 17 04 38 54.9–.44 35.75N 140.46E 0 4.4,4.3
BJI IV 17 04 38 58.5 35.76N 140.48E 34 4.9b,4.5b
MOS IV 17 04 38 58.2–1.1 35.85N 140.39E 27 4.7b,4.5b
NEIC IV 17 04 38 59.0–1.6 35.77N 140.37E 22–11 4.5b,4.5b
JMA IV 17 04 38 59.5 35.87N 140.47E 35–1 4.5,4.5b
ISCJB IV 17 04 38 59.0–.50 35.84N–.03 140.40E–.03 31–3 4.4b,3.7s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ40.00000°,λ-49.00000°. NP2:ϕ_s301.00000°,δ61.00000°,λ-118.00000°. $M_0$8.25000×10^{15}
NEIC Event type fe. Felt at Chiba and Tokyo. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s59.00000°,δ63.00000°,λ108.00000°. NP2:ϕ_s203.00000°,δ32.00000°,λ59.00000°. Principal axes: T Plg67.0000°,Azm4.0000°; N Plg16.0000°,Azm231.0000°; P Plg16.0000° ,Azm136.0000°
ISCJB Event type fe.
(227) Eastern Honshu
ISC IV 17 05 38 47.5–.92 37.02N–.03 140.62E–.03 8–6 4.4b,3.4s 167 0-152
NIED IV 17 05 38 00 37.00N 140.70E 5 4.2W,3.4s **¶16442676**
ISCJB IV 17 05 38 47.5–.39 37.01N–.02 140.70E–.03 19–2 4.3b,3.5s
JMA IV 17 05 38 47.7 37.01N 140.68E 7–1 4.5,3.5s
MOS IV 17 05 38 49.3–1.2 37.01N 140.70E 32 4.7b,3.5s
NEIC IV 17 05 38 52.8–.57 37.00N 140.57E 48–5 4.4b,3.5s
BJI IV 17 05 38 52.5 36.89N 139.92E 25 4.8b,4.3b
IDC IV 17 05 38 53.4–1.6 36.98N 140.58E 56–14 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ39.00000°,λ-90.00000°. NP2:ϕ_s227.00000°,δ51.00000°,λ-90.00000°. $M_0$2.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=30.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s66.00000°,δ51.00000°,λ-71.00000°. NP2:ϕ_s218.00000°,δ43.00000°,λ-111.00000°. Principal axes: T Plg4.0000°,Azm143.0000°; N Plg14.0000°,Azm234.0000°; P Plg75.0000° ,Azm37.0000°
MOS Error ellipse: s-maj=8.8km s-min=6.0km az=102.8.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.5km az=126.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=80.0.
(228) Near east coast of eastern Honshu
ISC IV 17 05 42 34.5–1.5 38.54N–.05 142.06E–.10 48–12 3.7b 36 1-82
NIED IV 17 05 42 00 38.60N 141.90E 62 3.9W **¶17201286**
ISCJB IV 17 05 42 33.6–.95 38.57N–.04 142.04E–.10 54–7 3.7b
IDC IV 17 05 42 34.6–2.4 38.54N 142.30E 57–19 3.8,3.7
JMA IV 17 05 42 35.7–.10 38.57N 141.89E 49–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ21.00000°,λ50.00000°. NP2:ϕ_s31.00000°,δ74.00000°,λ104.00000°. $M_0$7.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=5.5km az=19.0.
IDC Error ellipse: s-maj=25.8km s-min=13.1km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(61) Chiapas
ISC IV 17 06 09 44.4–.43 16.98N–.05 94.12W–.04 154–3 4.2b 240 1-145
BJI IV 17 06 09 42.1 16.90N 94.10W 150 5.0b **¶16447739**
ISCJB IV 17 06 09 43.3–.25 16.91N–.03 94.13W–.03 163–2 3.9b
IDC IV 17 06 09 44.0–.60 17.14N 93.92W 151–5 4.1,3.9
MEX IV 17 06 09 46.1–.60 17.08N 94.14W 147–6 4.9,3.9
NEIC IV 17 06 09 46.0 17.07N 94.15W 147 4.9,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=23.8.
IDC Error ellipse: s-maj=24.7km s-min=9.7km az=54.0.
MEX Error ellipse: s-maj=3.5km s-min=2.9km az=-1.0.
NEIC Event type fe. Felt at Tuxtla Gutierrez. After MEX.

(228) Near east coast of eastern Honshu
ISC IV 17 06 49 22.3–.55 35.84N–.03 140.45E–.04 24–3 4.5b,3.8s 234 0-148
NIED IV 17 06 49 00 35.90N 140.50E 32 4.6W,3.8s **¶16442678**
IDC IV 17 06 49 18.1–.47 35.71N 140.40E 0 4.5,4.4
BJI IV 17 06 49 18.0 35.67N 140.73E 27 4.8b,4.6b
MOS IV 17 06 49 21.3–1.1 35.82N 140.47E 30 4.8b,4.6b
ISCJB IV 17 06 49 22.0–.47 35.82N–.02 140.39E–.03 32–3 4.5b,3.8s
JMA IV 17 06 49 22.8 35.87N 140.46E 35–1 4.6,3.8s
NEIC IV 17 06 49 24.2–.50 35.73N 140.37E 39–4 4.6b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ48.00000°,λ-14.00000°. NP2:ϕ_s313.00000°,δ80.00000°,λ-137.00000°. M_o8.39000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=10.8km az=89.0.
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=104.6.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.9km az=152.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s92.00000°,δ74.00000°,λ108.00000°. NP2:ϕ_s222.00000°,δ23.00000°,λ43.00000°. Principal axes: T Plg57.0000°,Azm25.0000°; N Plg17.0000°,Azm267.0000°; P Plg27.0000° ,Azm168.0000°
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=140.0. Felt at Tokyo. Recorded [3 JMA] in Chiba and Ibaraki.
(228) Near east coast of eastern Honshu
ISC IV 17 07 06 04.4–.85 38.87N–.05 142.02E–.09 44–5 3.9b 36 0-70
NIED IV 17 07 06 00 38.90N 142.00E 26 3.8W **¶17201290**
ISCJB IV 17 07 06 03.6–.90 38.88N–.04 142.0E–.10 54–6 3.9b
JMA IV 17 07 06 04.9–.10 38.89N 141.97E 50–1 3.9
IDC IV 17 07 06 06.7–1.1 38.81N 141.97E 69–7 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s274.00000°,δ36.00000°,λ-136.00000°. NP2:ϕ_s145.00000°,δ66.00000°,λ-63.00000°. M_o5.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=5.9km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=16.6km az=91.0.
(228) Near east coast of eastern Honshu
ISC IV 17 07 12 50.8–.57 37.40N–.04 141.38E–.05 50–4 4.6b,3.5s 212 0-147
NIED IV 17 07 12 00 37.40N 141.40E 50 4.4W,3.5s **¶16444279**
MOS IV 17 07 12 48.2–1.1 37.51N 141.28E 33 4.7b,3.5s
ISCJB IV 17 07 12 49.9–.39 37.41N–.02 141.36E–.04 56–2 4.5b,3.5s
BJI IV 17 07 12 49.2 37.47N 141.37E 56 4.7b,4.7b
JMA IV 17 07 12 50.4–.10 37.41N 141.41E 47–1 4.3,4.7b
IDC IV 17 07 12 51.2–.63 37.38N 141.33E 53–5 4.3,4.2
NEIC IV 17 07 12 52.2–.47 37.44N 141.29E 60–4 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ15.00000°,λ81.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ92.00000°. M_o4.31000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.5km az=26.4.
JMA Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=8.7km az=114.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=142.0.
(227) Eastern Honshu
ISC IV 17 08 03 47.0–.85 37.05N–.04 140.74E–.03 9–5 4.2b,3.5s 90 0-147
NIED IV 17 08 03 00 37.10N 140.80E 5 4.1W,3.5s **¶602557559**
ISCJB IV 17 08 03 46.6–.77 37.07N–.02 140.80E–.04 15–5 4.2b,3.6s
JMA IV 17 08 03 47.0 37.09N 140.72E 9–1 4.3,3.6s
NEIC IV 17 08 03 51.6–.70 36.99N 140.67E 42–7 4.4b,3.6s
IDC IV 17 08 03 51.2–2.6 37.09N 140.65E 37–22 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ31.00000°,λ-103.00000°. NP2:ϕ_s211.00000°,δ60.00000°,λ-82.00000°. M_o1.38000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=28.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ71.00000°,λ-86.00000°. NP2:ϕ_s39.00000°,δ19.00000°,λ-101.00000°. Principal axes: T Plg26.0000°,Azm317.0000°; N Plg4.0000°,Azm49.0000°; P Plg64.0000° ,Azm146.0000°
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=6.0km az=114.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.5km s-min=11.8km az=94.0.
(115) Near coast of Peru
ISC IV 17 09 57 29.4–.64 16.6S–.10 72.68W–.10 100 4.2b 30 4-149
ISCJB IV 17 09 57 27.8–.61 16.49S–.09 72.69W–.08 100 4.2b **¶602945437**
IDC IV 17 09 57 30.7–2.1 16.50S 72.75W 114–17 4.3,4.1
NEIC IV 17 09 57 31.4–1.2 16.53S 72.62W 120–10 4.3b,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=8.7km az=37.6.
IDC Error ellipse: s-maj=22.2km s-min=14.3km az=39.0.
NEIC Event type fe. Error ellipse: s-maj=15.1km s-min=10.6km az=212.0. Felt [III] at Aplao and [II] at Arequipa, Camana, Chuquibamba and Ocona.
(227) Eastern Honshu
ISC IV 17 10 07 14.3–.90 37.07N–.04 140.73E–.04 10–7 3.3b 24 0-61
IDC IV 17 10 07 12.4–1.8 37.04N 140.87E 0 3.5,3.4b **¶17201304**
ISCJB IV 17 10 07 14.1–.65 37.08N–.03 140.82E–.06 16–4 3.3b,3.4b
JMA IV 17 10 07 14.9 37.09N 140.72E 8–1 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=22.9km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.7km az=16.1.
JMA Event type fe.
(196) Irian Jaya region
ISC IV 17 11 41 17.3–.57 0.95S–.08 136.81E–.06 29 4.1b,3.2s 32 3-89
IDC IV 17 11 41 13.0–.70 0.96S 136.66E 0 4.2L,4.1 **¶16536013**
DJA IV 17 11 41 14.8–.60 1S–8.0 137E–3.0 10 5.0b,4.7
ISCJB IV 17 11 41 15.3–.39 0.98S–.06 136.82E–.04 29 4.1b,3.3s
NEIC IV 17 11 41 18.4–.46 0.96S 136.80E 35 4.4b,3.3s
ISC Event type fe.
IDC Error ellipse: s-maj=30.5km s-min=14.5km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.4km az=11.4.
NEIC Event type fe. Error ellipse: s-maj=15.7km s-min=8.7km az=67.0. Felt [III] at Biak.
(228) Near east coast of eastern Honshu
ISC IV 17 12 13 05.4–2.0 39.17N–.05 142.39E–.08 24–13 3.6b 36 1-73
NIED IV 17 12 13 00 39.20N 142.40E 32 3.9W **¶17201315**
ISCJB IV 17 12 13 05.2–1.0 39.16N–.04 142.43E–.08 39–9 3.6b,3.3s
JMA IV 17 12 13 05.3–.10 39.17N 142.39E 26–1 4.1,3.3s
IDC IV 17 12 13 08.2–2.2 39.18N 142.40E 49–20 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ39.00000°,λ-146.00000°. NP2:ϕ_s183.00000°,δ69.00000°,λ-56.00000°. M_o7.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.5km az=18.6.
JMA Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=13.4km az=111.0.
(227) Eastern Honshu
ISC IV 17 12 51 42.1–.94 37.07N–.03 140.70E–.03 2–5 4.6b,3.7s 306 0-151
NIED IV 17 12 51 00 37.10N 140.70E 5 4.3W,3.7s **¶16442683**
IDC IV 17 12 51 41.3–.45 37.06N 140.69E 0 4.4,4.3
ISCJB IV 17 12 51 42.2–.42 37.07N–.02 140.71E–.02 10–2 4.5b,3.7s
JMA IV 17 12 51 42.5 37.07N 140.73E 8–1 4.6,3.7s
BJI IV 17 12 51 43.0 36.98N 140.62E 19 4.8b,4.4b
MOS IV 17 12 51 45.3–.98 37.37N 140.61E 23 4.8b,4.4b
NEIC IV 17 12 51 45.9–1.2 37.09N 140.61E 24–8 4.7b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ33.00000°,λ-43.00000°. NP2:ϕ_s183.00000°,δ68.00000°,λ-115.00000°. M_o3.37000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=10.8km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.8km az=139.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ65.00000°,λ-102.00000°. NP2:ϕ_s30.00000°,δ28.00000°,λ-67.00000°. Principal axes: T Plg19.0000°,Azm283.0000°; N Plg11.0000°,Azm189.0000°; P Plg68.0000° ,Azm72.0000°
MOS Error ellipse: s-maj=7.7km s-min=5.5km az=86.4.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=135.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC IV 17 14 10 16.9–.94 36.77N–.03 140.52E–.05 10–6 3.8b 45 0-91
NIED IV 17 14 10 00 36.70N 140.60E 5 3.7W **¶16443570**
IDC IV 17 14 10 15.4–.67 36.78N 140.49E 0 4.0,3.8
ISCJB IV 17 14 10 16.7–.48 36.74N–.03 140.64E–.05 20–3 3.8b,3.8
NEIC IV 17 14 10 16.9–1.9 36.79N 140.42E 8–12 4.1b,3.8
JMA IV 17 14 10 17.2 36.75N 140.59E 8–1 4.0,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ42.00000°,λ-62.00000°. NP2:ϕ_s146.00000°,δ54.00000°,λ-113.00000°. M_o3.82000×10^{14}
IDC Error ellipse: s-maj=16.9km s-min=11.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.0km az=21.8.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=7.7km az=111.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s154.00000°,δ47.00000°,λ-101.00000°. NP2:ϕ_s349.00000°,δ44.00000°,λ-79.00000°. Principal axes: T Plg2.0000°,Azm251.0000°; N Plg8.0000°,Azm161.0000°; P Plg82.0000° ,Azm355.0000°
(227) Eastern Honshu
ISC IV 17 14 42 25.6–1.0 37.05N–.03 140.59E–.05 7–7 3.6b 30 0-147
NIED IV 17 14 42 00 37.00N 140.70E 5 3.7W **¶17201328**
IDC IV 17 14 42 24.5–.64 37.03N 140.58E 0 3.9,3.8
ISCJB IV 17 14 42 25.4–.57 37.01N–.03 140.80E–.07 17–4 3.6b,3.4s
JMA IV 17 14 42 25.9 37.02N 140.68E 7–1 3.8,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ39.00000°,λ-86.00000°. NP2:ϕ_s239.00000°,δ52.00000°,λ-93.00000°. M_o3.41000×10^{14}
IDC Error ellipse: s-maj=18.3km s-min=15.2km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.8km az=13.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ50.00000°,λ-105.00000°. NP2:ϕ_s252.00000°,δ42.00000°,λ-73.00000°. Principal axes: T Plg4.0000°,Azm150.0000°; N Plg11.0000°,Azm59.0000°; P Plg78.0000° ,Azm259.0000°
(227) Eastern Honshu
ISC IV 17 14 46 51.3–1.2 37.06N–.03 140.97E–.05 4–7 4.3b,3.2s 155 0-147
NIED IV 17 14 46 00 37.10N 140.80E 5 4.1W,3.2s **¶16442685**
ISCJB IV 17 14 46 50.8–.71 37.08N–.03 140.97E–.04 12–4 4.2b,3.4s
IDC IV 17 14 46 50.4–.56 37.02N 140.90E 0 4.2,4.1
BJI IV 17 14 46 50.7 36.84N 140.76E 8 4.8b,4.5b
JMA IV 17 14 46 52.0 37.09N 140.83E 7–1 4.5,4.5b
MOS IV 17 14 46 52.8–1.2 37.06N 140.91E 27 4.6b,4.5b
NEIC IV 17 14 46 53.7–2.2 37.08N 140.92E 19–13 4.6b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ23.00000°,λ-69.00000°. NP2:ϕ_s235.00000°,δ69.00000°,λ-99.00000°. M_o1.63000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=26.1.
IDC Error ellipse: s-maj=15.4km s-min=13.4km az=86.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s219.00000°,δ60.00000°,λ-106.00000°. NP2:ϕ_s70.00000°,δ34.00000°,λ-64.00000°. Principal axes: T Plg14.0000°,Azm321.0000°; N Plg14.0000°,Azm227.0000°; P Plg70.0000° ,Azm93.0000°
MOS Error ellipse: s-maj=9.3km s-min=6.2km az=106.5.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.4km az=106.0. Recorded [4 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC IV 17 15 38 38.0–1.0 40.56N–.04 141.65E–.09 76–7 3.5b 24 0-64
ISCJB IV 17 15 38 37.0–.69 40.56N–.04 141.7E–.10 83–5 3.4b **¶17201332**
JMA IV 17 15 38 38.0–.10 40.57N 141.67E 76–1 3.2
IDC IV 17 15 38 39.2–1.9 40.57N 141.79E 98–21 3.4,3.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=5.8km az=2.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s16.00000°,δ73.00000°,λ-115.00000°. NP2: ϕ_s254.00000°,δ30.00000°,λ-36.00000°. Principal axes: T Plg24.0000°,Azm125.0000° ; N Plg24.0000°,Azm24.0000°; P Plg55.0000°,Azm255.0000°
IDC Error ellipse: s-maj=29.3km s-min=15.9km az=95.0.
(228) Near east coast of eastern Honshu
ISC IV 17 15 47 28.7–.34 37.00N–.03 141.31E–.03 20–2 4.9b,4.2s 876 0-148
NIED IV 17 15 47 00 37.10N 141.30E 11 4.7W,4.2s **¶16442686**
BJI IV 17 15 47 25.9 36.90N 141.08E 11 4.8b,4.7b
IDC IV 17 15 47 25.9–.40 37.05N 141.18E 0 4.6,4.6
ISCJB IV 17 15 47 28.9–.46 37.04N–.02 141.22E–.02 29–3 4.8b,4.1s
JMA IV 17 15 47 28.6–.10 37.00N 141.28E 29–1 4.8,4.1s
MOS IV 17 15 47 29.3–.91 37.29N 141.14E 24 5.1b,4.1s
NEIC IV 17 15 47 29.4–.36 37.02N 141.13E 21–2 4.9b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ26.00000°,λ-66.00000°. NP2:ϕ_s202.00000°,δ67.00000°,λ-101.00000°. M_o1.11000×10^{16}
IDC Error ellipse: s-maj=12.0km s-min=9.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=164.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=99.4.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=149.0. Recorded [3 JMA] in Fukushima and Ibaraki.
(228) Near east coast of eastern Honshu
ISC IV 17 15 53 41.9–1.0 35.90N–.06 140.61E–.07 50 3.4b 15 0-60
IDC IV 17 15 53 36.8–1.7 35.87N 140.62E 0 3.5,3.4 **¶17201335**
ISCJB IV 17 15 53 40.5–.58 35.91N–.05 140.61E–.08 50 3.4b,3.4
JMA IV 17 15 53 41.6 35.86N 140.47E 34–1 3.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=21.8km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.2km az=151.5.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 17 16 00 02.8–.45 36.67N–.04 141.60E–.04 23–2 4.7b,4.2s 331 1-155
IDC IV 17 15 59 58.8–.44 36.60N 141.60E 0 4.5,4.4 **¶17201337**
BJI IV 17 15 59 59.7 36.62N 141.32E 5 4.9b,4.7b
NIED IV 17 16 00 00 36.70N 141.70E 17 4.6W,4.7b
ISCJB IV 17 16 00 01.9–.79 36.66N–.03 141.63E–.03 29–5 4.7b,4.1s
JMA IV 17 16 00 01.6–.30 36.67N 141.70E 32–4 4.6,4.1s
NEIC IV 17 16 00 02.4–.29 36.61N 141.61E 22–1 4.7b,4.1s
MOS IV 17 16 00 02.8–1.1 36.67N 141.64E 36 4.9b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=91.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ31.00000°,λ-165.00000°. NP2:ϕ_s188.00000°,δ82.00000°,λ-60.00000°. M_o7.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=43.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=146.0.
MOS Error ellipse: s-maj=7.2km s-min=4.5km az=112.9.
(228) Near east coast of eastern Honshu
ISC IV 17 16 47 59.9–.58 37.40N–.04 141.56E–.05 33–2 4.0b,3.2s 60 1-146
ISCJB IV 17 16 47 59.1–.64 37.36N–.03 141.62E–.06 45–5 4.0b,3.2s **¶16529600**
JMA IV 17 16 48 00.6–.10 37.41N 141.53E 40–2 4.4,3.2s
NIED IV 17 16 48 00 37.40N 141.50E 50 4.2W,3.2s
NEIC IV 17 16 48 01.4–.44 37.41N 141.51E 46–4 4.5b,3.2s
IDC IV 17 16 48 01.5–.60 37.41N 141.46E 44–5 4.1L,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.9km az=4.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ30.00000°,λ-114.00000°. NP2:ϕ_s170.00000°,δ63.00000°,λ-76.00000°. M_o2.00000×10^{15}
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=116.0.
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=122.0.
(228) Near east coast of eastern Honshu
ISC IV 17 16 56 44.4–1.1 36.25N–.04 141.1E–.10 31 3.8b 17 1-75
NIED IV 17 16 56 00 36.20N 141.00E 29 3.8W **¶600590904**
IDC IV 17 16 56 37.4–.85 36.74N 141.46E 0 3.8,3.7
ISCJB IV 17 16 56 41.8–1.0 36.27N–.05 141.32E–.09 31 3.6b,3.3s
JMA IV 17 16 56 45.7 36.18N 141.02E 38–1 4.0,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ56.00000°,λ-11.00000°. NP2:ϕ_s345.00000°,δ81.00000°,λ-145.00000°. M_o5.96000×10^{14}

IDC Error ellipse: s-maj=23.7km s-min=17.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.4km az=155.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**17 16 56 48.2–.10**	**38.74N**	**142.23E**	**38–2**	**4.1**		**¶600590906**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**17 17 34 20.3–1.7**	**37.99N–.04**	**142.65E–.04**	**24–12**	**4.4b,3.4s**	**150**	**1-145**
NIED	IV	17 17 34 00	38.00N	142.60E	17	4.1W,3.4s		**¶16447740**
ISCJB	IV	17 17 34 16.8–1.1	38.01N–.03	142.65E–.03	10–7	4.3b,3.5s		
IDC	IV	17 17 34 17.3–.52	38.01N	142.59E	0	4.3,4.2		
JMA	IV	17 17 34 18.5–.30	38.04N	142.62E	19	4.3,4.2		
MOS	IV	17 17 34 19.8–.93	38.13N	142.60E	26	4.5b,4.2		
BJI	IV	17 17 34 20.5	38.04N	142.38E	26	4.7b,4.6b		
NEIC	IV	17 17 34 20.6–2.0	38.01N	142.61E	24–14	4.6b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ22.00000°,λ-11.00000°. NP2:ϕ_s162.00000°,δ86.00000°,λ-112.00000°. $M_0$1.77000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=149.9.
IDC Error ellipse: s-maj=14.8km s-min=11.3km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=6.3km az=90.1.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.6km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**17 18 08 48.1–.62**	**35.78N–.03**	**140.11E–.04**	**60–5**	**4.5b**	**245**	**0-148**
NIED	IV	17 18 08 00	35.80N	140.10E	71	4.7W		**¶16442693**
BJI	IV	17 18 08 42.6	35.60N	140.41E	46	4.8b,4.5b		
MOS	IV	17 18 08 46.1–1.2	35.82N	140.18E	58	4.9b,4.5b		
ISCJB	IV	17 18 08 47.8–.31	35.71N–.02	140.09E–.04	76–2	4.4b,4.5b		
JMA	IV	17 18 08 48.8–.20	35.79N	140.11E	65–2	4.4,4.5b		
IDC	IV	17 18 08 48.3–1.0	35.68N	140.18E	65–9	4.3,4.1		
NEIC	IV	17 18 08 48.3–.59	35.70N	140.07E	67–5	4.7b,4.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ33.00000°,λ39.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ117.00000°. $M_0$1.06000×10^{16}
MOS Error ellipse: s-maj=8.5km s-min=4.9km az=113.9.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.1km az=179.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s17.00000°,δ65.00000°,λ96.00000°. NP2: ϕ_s182.00000°,δ25.00000°,λ77.00000°. Principal axes: T Plg69.0000°,Azm299.0000° ; N Plg6.0000°,Azm194.0000°; P Plg20.0000°,Azm102.0000°
IDC Error ellipse: s-maj=11.1km s-min=6.3km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=5.5km az=113.0. Felt [II] at Yokohama. Also felt at Akiruno, Atsugi and Tokyo. Recorded [3 JMA] in Kanagawa.

(227) Eastern Honshu

ISC	**IV**	**17 18 33 40.8–1.1**	**36.95N–.04**	**140.70E–.04**	**9–7**	**3.9b**	**50**	**0-147**
NIED	IV	17 18 33 00	37.00N	140.80E	8	3.9W		**¶602557557**
IDC	IV	17 18 33 39.6–.56	36.98N	140.72E	0	4.1,4.0		
ISCJB	IV	17 18 33 40.7–.56	36.98N–.03	140.86E–.05	19–3	3.9b,2.7s		
JMA	IV	17 18 33 41.8	37.01N	140.70E	10–1	4.1,2.7s		
NEIC	IV	17 18 33 45.0–1.3	36.93N	140.73E	39–12	4.3b,2.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ40.00000°,λ-72.00000°. NP2:ϕ_s256.00000°,δ52.00000°,λ-104.00000°. $M_0$7.37000×10^{14}
IDC Error ellipse: s-maj=16.6km s-min=14.2km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.0km az=27.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s103.00000°,δ48.00000°,λ-75.00000°. NP2:ϕ_s262.00000°,δ44.00000°,λ-106.00000°. Principal axes: T Plg2.0000°,Azm183.0000°; N Plg11.0000°,Azm273.0000°; P Plg79.0000° ,Azm83.0000°
NEIC Event type fe. Error ellipse: s-maj=13.9km s-min=10.2km az=102.0. Recorded [3 JMA] in Fukushima.

(588) Northwest of Australia

ISC	**IV**	**17 18 41 18.6–.75**	**19.89S–.04**	**113.72E–.05**	**10–4**	**5.3b,4.4s**	**447**	**6-152**
BJI	IV	17 18 41 13.6	20.26S	113.96E	7	5.2b,5.1b		**¶16442694**
ISCJB	IV	17 18 41 16.3–1.1	19.89S–.03	113.75E–.03	6–6	5.2b,4.4s		
IDC	IV	17 18 41 17.3–.56	19.89S	113.73E	0	5.3L,5.2		
MOS	IV	17 18 41 17.2–1.0	19.85S	113.74E	10	5.4b,4.2s		
GCMT	IV	17 18 41 18.5–.10	19.85S	113.49E	26–0	5.3W,4.2s		
NEIC	IV	17 18 41 18.5–.25	19.92S	113.73E	10	5.3b,4.2s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=39.8.
IDC Error ellipse: s-maj=18.2km s-min=14.7km az=89.0.
MOS Error ellipse: s-maj=9.5km s-min=6.5km az=113.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s86,c142; s103,c185; Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.02 $M_{\theta\theta}$0.44±.01; $M_{\phi\phi}$-0.50±.02; $M_{r\theta}$0.47±.03; $M_{\theta\phi}$-0.85±.01; $M_{\phi r}$-0.20±.03; Best double couple: NP1:ϕ_s73.00000°,δ76.00000° ,λ159.00000°. NP2:ϕ_s168.00000°,δ70.00000°,λ15.00000°. Principal axes: T 1.1700,Plg25.0000°,Azm30.0000°; N -0.1620,Plg65.0000°,Azm220.0000° ; P -1.0090,Plg4.0000°,Azm121.0000° $M_0$1.09000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.0km az=225.0. Felt [II] at Karratha. Also felt at Roebourne.

(224) Hokkaido region

ISC	**IV**	**17 19 48 31.1–.82**	**42.76N–.05**	**143.23E–.05**	**113**	**3.5b**	**31**	**0-64**
ISCJB	IV	17 19 48 30.4–.43	42.77N–.05	143.24E–.06	113	3.5b		**¶17201350**
JMA	IV	17 19 48 31.8–.10	42.78N	143.18E	103–1	3.0		
IDC	IV	17 19 48 33.0–.93	45.38N	142.58E	0	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.3km az=146.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=23.5km s-min=17.0km az=94.0.

(460) Wyoming

ISC	**IV**	**17 20 06 06.3–.84**	**43.80N–.05**	**105.57W–.05**	**0**		**23**	**1-19**
ISCJB	IV	17 20 06 06.5–.51	43.81N–.05	105.41W–.06	0			**¶17201352**
NEIC	IV	17 20 06 08.0–.49	43.82N	105.37W	0	3.1L		
IDC	IV	17 20 06 08.9–1.5	43.92N	105.73W	0	3.7,3.5		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.7km s-min=6.5km az=32.1.
NEIC Event type fm. Error ellipse: s-maj=8.3km s-min=6.4km az=157.0. 54 km [33 miles] S of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=41.1km s-min=9.5km az=148.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**17 20 20 31.9–1.7**	**36.55N–.04**	**141.26E–.05**	**15–10**	**4.1b,3.1s**	**56**	**1-102**
NIED	IV	17 20 20 00	36.60N	141.30E	38	4.2W,3.1s		**¶600590986**
IDC	IV	17 20 20 29.8–.61	36.53N	141.31E	0	4.2,4.0		
ISCJB	IV	17 20 20 31.0–.87	36.53N–.03	141.49E–.05	26–6	4.0b,3.2s		
MOS	IV	17 20 20 32.0–1.9	36.63N	141.34E	29	4.5b,3.2s		
JMA	IV	17 20 20 34.3–.10	36.57N	141.28E	42–2	4.2,3.2s		
NEIC	IV	17 20 20 34.5–.62	36.54N	141.20E	35	4.5b,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ13.00000°,λ172.00000°. NP2:ϕ_s275.00000°,δ88.00000°,λ77.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=12.9km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=16.9.
MOS Error ellipse: s-maj=11.3km s-min=7.9km az=86.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=10.5km az=128.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**17 22 02 53.0–1.2**	**36.78N–.04**	**141.01E–.09**	**49–9**	**3.5b**	**23**	**0-60**
NIED	IV	17 22 02 00	36.80N	141.00E	47	3.4W		**¶17201362**
IDC	IV	17 22 02 43.9–2.0	36.99N	141.66E	0	3.7,3.6		
ISCJB	IV	17 22 02 51.8–.82	36.76N–.04	141.0E–.10	57–5	3.4b,3.6		
JMA	IV	17 22 02 53.5–.10	36.79N	140.95E	51–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ50.00000°,λ154.00000°. NP2:ϕ_s18.00000°,δ70.00000°,λ43.00000°. $M_0$1.59000×10^{14}
IDC Error ellipse: s-maj=54.0km s-min=20.9km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.5km az=4.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 00 03 05.2–1.9**	**38.35N–.05**	**142.15E–.07**	**10–11**	**3.7b**	**24**	**1-76**
NIED	IV	18 00 03 00	38.40N	142.20E	20	3.9W		**¶17201373**
ISCJB	IV	18 00 03 05.5–1.3	38.37N–.05	142.24E–.07	25–8	3.8b,2.7s		
JMA	IV	18 00 03 06.5–.10	38.43N	142.23E	27–2	4.2,2.7s		
IDC	IV	18 00 03 09.9–2.9	38.33N	142.26E	45–28	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ32.00000°,λ-28.00000°. NP2:ϕ_s293.00000°,δ76.00000°,λ-119.00000°. $M_0$8.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.6km az=29.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.9km s-min=15.2km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 00 19 19.0–1.8**	**38.85N–.05**	**142.17E–.10**	**10**		**15**	**0-44**
ISCJB	IV	18 00 19 18.0–1.3	38.78N–.05	142.22E–.09	10	3.5b		**¶17201374**
JMA	IV	18 00 19 21.1–.10	38.85N	142.05E	46–1	3.6		
IDC	IV	18 00 19 28.4–4.2	39.40N	140.84E	32–60	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.0km az=15.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=121.1km s-min=26.4km az=120.0.

(61) Chiapas

ISC	**IV**	**18 00 46 54.8–.50**	**17.65N–.03**	**94.98W–.03**	**139–4**	**4.4b**	**571**	**1-128**
ISCJB	IV	18 00 46 53.4–.19	17.64N–.02	94.91W–.02	140–2	4.4b		**¶16498609**
IDC	IV	18 00 46 53.5–.55	17.80N	94.53W	117–11	4.3,4.1		
BJI	IV	18 00 46 55.2	17.80N	94.80W	150	4.9b,4.1		
MEX	IV	18 00 46 55.7–.58	17.65N	94.99W	136–7	4.4,4.1		
NEIC	IV	18 00 46 55.7	17.65N	94.99W	136	4.4,4.4b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=1.0.
IDC Error ellipse: s-maj=27.9km s-min=14.3km az=55.0.
MEX Error ellipse: s-maj=6.8km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt at Oaxaca. After MEX.

(228) Near east coast of eastern Honshu

JMA	**IV**	**18 01 11 15.3–.10**	**37.50N**	**141.75E**	**38–3**	**3.8**		
NIED	IV	18 01 11 00	37.50N	141.70E	41	3.6W		**¶600591154**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ34.00000°,λ-3.00000°. NP2:ϕ_s249.00000°,δ88.00000°,λ-124.00000°. $M_0$2.80000×10^{14}

(227) Eastern Honshu

ISC	**IV**	**18 02 08 13.5–.93**	**37.10N–.03**	**140.58E–.04**	**12–6**	**4.4b**	**138**	**0-147**
NIED	IV	18 02 08 00	37.10N	140.70E	5	4.1W		**¶16443582**
IDC	IV	18 02 08 12.1–.56	37.10N	140.56E	0	4.4,4.3L		
JMA	IV	18 02 08 13.5	37.09N	140.66E	8–1	4.2,4.3L		
MOS	IV	18 02 08 13.5–1.1	37.19N	140.64E	23	4.6b,4.3L		
ISCJB	IV	18 02 08 13.4–.45	37.11N–.03	140.65E–.03	22–3	4.3b,3.1s		
NEIC	IV	18 02 08 18.3–.61	37.17N	140.50E	43–5	4.5b,3.1s		
BJI	IV	18 02 08 18.2	37.05N	140.56E	62	4.7b,4.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ29.00000°,λ-62.00000°. NP2:ϕ_s150.00000°,δ64.00000°,λ-105.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=13.3km az=108.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s161.00000°,δ50.00000°,λ-101.00000°. NP2:ϕ_s358.00000°,δ42.00000°,λ-78.00000°. Principal axes: T Plg4.0000°,Azm259.0000°; N Plg8.0000°,Azm168.0000°; P Plg81.0000° ,Azm15.0000°
MOS Error ellipse: s-maj=10.2km s-min=6.0km az=85.9.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=43.4.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.4km az=139.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 02 28 37.4–1.8**	**37.61N–.06**	**141.7E–.10**	**44–15**	**3.6b**	**27**	**1-90**
NIED	IV	18 02 28 00	37.60N	141.60E	50	3.7W		**¶17201384**
ISCJB	IV	18 02 28 37.4–.99	37.61N–.06	141.6E–.10	61–7	3.7b		
JMA	IV	18 02 28 38.1–.10	37.59N	141.64E	49–2	3.5		
IDC	IV	18 02 28 40.8–3.7	37.58N	141.55E	76–34	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ21.00000°,λ57.00000°. NP2:ϕ_s34.00000°,δ72.00000°,λ102.00000°. $M_0$3.68000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=8.1km az=19.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.7km s-min=23.4km az=106.0.

(186) Vanuatu Islands

ISC	**IV**	**18 02 56 36.1–.47**	**17.49S–.06**	**168.0E–.10**	**27**	**4.7b,4.0s**	**117**	**5-166**
IDC	IV	18 02 56 32.1–.68	17.42S	167.98E	0	4.7,4.5		**¶16450746**
ISCJB	IV	18 02 56 34.7–.42	17.42S–.06	167.88E–.09	27	4.7b,4.0s		
NEIC	IV	18 02 56 37.5–.29	17.45S	167.93E	35	4.8b,4.0s		
MOS	IV	18 02 56 39.2–1.1	17.34S	167.68E	54	4.9b,4.0s		
BJI	IV	18 02 56 41.0	17.30S	167.70E	60	4.9b,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=22.2km s-min=16.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.9km az=4.5.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.6km az=105.0. Felt at Port-Vila.
MOS Error ellipse: s-maj=11.8km s-min=9.1km az=43.8.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 03 13 48.9–1.4**	**39.25N–.05**	**142.2E–.10**	**42–12**	**3.8b,3.3s**	**27**	**0-73**
NIED	IV	18 03 13 00	39.30N	142.20E	50	4.1W,3.3s		**¶17201386**
ISCJB	IV	18 03 13 48.1–.90	39.25N–.04	142.3E–.10	51–6	3.6b,3.4s		
JMA	IV	18 03 13 48.8–.10	39.28N	142.24E	42–1	3.6,3.4s		
IDC	IV	18 03 13 52.7–2.3	39.24N	142.16E	80–20	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ15.00000°,λ75.00000°. NP2:ϕ_s22.00000°,δ75.00000°,λ94.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=5.7km az=16.9.
JMA Event type fe.
IDC Error ellipse: s-maj=23.0km s-min=13.8km az=105.0.

(235) Kyushu

JMA	**IV**	**18 04 07 28.7**	**32.77N**	**131.32E**	**13–1**	**3.6**		**¶600591253**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ73.00000°,λ-160.00000°. NP2:ϕ_s305.00000°,δ70.00000°,λ-18.00000°. Principal axes: T Plg2.0000°,Azm173.0000°; N Plg64.0000°,Azm79.0000°; P Plg26.0000° ,Azm264.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 04 20 50.9–1.5**	**38.31N–.05**	**141.9E–.10**	**52–12**	**3.6b**	**26**	**0-58**
NIED	IV	18 04 20 00	38.30N	141.80E	11	3.8W		**¶17201390**
IDC	IV	18 04 20 40.2–2.7	38.56N	142.82E	0	3.8,3.8s		
ISCJB	IV	18 04 20 50.8–.96	38.30N–.04	141.82E–.10	63–7	3.5b,3.8s		
JMA	IV	18 04 20 51.7–.10	38.30N	141.79E	58–1	3.6,3.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ59.00000°,λ-164.00000°. NP2:ϕ_s121.00000°,δ76.00000°,λ-32.00000°. $M_0$5.25000×10^{14}
IDC Error ellipse: s-maj=68.4km s-min=31.9km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.0km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 05 11 42.7–.89**	**36.72N–.04**	**140.57E–.07**	**11–6**	**3.4b**	**22**	**0-91**
NIED	IV	18 05 11 00	36.70N	140.60E	5	3.7W		**¶600591283**
IDC	IV	18 05 11 41.0–.86	36.70N	140.59E	0	3.7,3.6		
ISCJB	IV	18 05 11 41.9–.77	36.67N–.04	140.72E–.08	18–4	3.5b,3.6		
JMA	IV	18 05 11 43.2	36.73N	140.61E	7–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ37.00000°,λ-108.00000°. NP2:ϕ_s189.00000°,δ56.00000°,λ-77.00000°. $M_0$4.21000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=14.2km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.0km az=27.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s182.00000°,δ51.00000°,λ-89.00000°. NP2:ϕ_s0.00000°,δ39.00000°,λ-91.00000°. Principal axes: T Plg6.0000°,Azm271.0000°; N Plg1.0000°,Azm1.0000°; P Plg84.0000° ,Azm100.0000°

(227) Eastern Honshu

JMA IV 18 05 54 25.3 37.02N 140.69E 10–1 3.6
¶600591319

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 18 07 21 08.7–1.3 36.42N–.04 141.16E–.05 28–9 4.3b,3.5s 100 1-152
NIED IV 18 07 21 00 36.40N 141.10E 32 4.1W,3.5s **¶16447744**
MOS IV 18 07 21 05.6–1.3 36.38N 141.31E 24 4.6b,3.5s
ISCJB IV 18 07 21 08.2–.58 36.41N–.03 141.18E–.05 40–5 4.2b,3.4s
JMA IV 18 07 21 09.0–.10 36.43N 141.10E 46–2 4.1,3.4s
NEIC IV 18 07 21 10.5–.78 36.37N 141.19E 45–7 4.4b,3.4s
IDC IV 18 07 21 11.5–1.7 36.39N 141.08E 54–16 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ21.00000°,λ-39.00000°. NP2:ϕ_s230.00000°,δ77.00000°,λ-106.00000°. $M_0$1.56000×10^{15}
MOS Error ellipse: s-maj=10.2km s-min=7.3km az=106.7.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=12.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=103.0.
IDC Error ellipse: s-maj=13.5km s-min=8.8km az=75.0.

(228) Near east coast of eastern Honshu

ISC IV 18 08 01 58.7–1.9 37.19N–.04 141.32E–.05 16–11 4.0b 52 0-147
NIED IV 18 08 01 00 37.20N 141.20E 26 3.9W **¶601626069**
IDC IV 18 08 01 56.2–.74 37.18N 141.31E 0 4.0,3.9
ISCJB IV 18 08 01 58.0–.85 37.18N–.03 141.36E–.05 24–5 3.9b,2.8s
NEIC IV 18 08 01 60.0–2.0 37.18N 141.33E 24–15 4.3b,2.8s
JMA IV 18 08 01 59.7–.10 37.17N 141.24E 29–1 4.4,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ49.00000°,λ-41.00000°. NP2:ϕ_s241.00000°,δ60.00000°,λ-131.00000°. $M_0$8.72000×10^{14}
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.3km az=16.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.0km az=121.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(232) Western Honshu

JMA IV 18 08 16 29.3 35.39N 136.29E 38 3.6
NIED IV 18 08 16 00 35.40N 136.30E 32 3.4W **¶600591429**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ51.00000°,λ-56.00000°. NP2:ϕ_s182.00000°,δ50.00000°,λ-125.00000°. Principal axes: T Plg1.0000°,Azm116.0000°; N Plg26.0000°,Azm206.0000°; P Plg64.0000°,Azm24.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ51.00000°,λ-43.00000°. NP2:ϕ_s175.00000°,δ58.00000°,λ-132.00000°. $M_0$1.58000×10^{14}

(162) South Island

WEL IV 18 08 41 34.6–.10 43.63S 172.37E 10–1 2.8L
¶601003906

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.

(228) Near east coast of eastern Honshu

ISC IV 18 08 44 36.9–.99 36.95N–.03 140.64E–.04 11–6 4.0b,3.1s 52 0-147
NIED IV 18 08 44 00 36.90N 140.60E 5 3.9W,3.1s **¶16631138**
IDC IV 18 08 44 35.1–.60 36.99N 140.56E 0 4.1,4.0
ISCJB IV 18 08 44 36.5–.46 36.96N–.03 140.69E–.04 20–3 4.0b,3.1s
JMA IV 18 08 44 36.6 36.95N 140.64E 7–1 4.1,3.1s
NEIC IV 18 08 44 40.8–.84 36.99N 140.52E 39–8 4.2b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ25.00000°,λ-105.00000°. NP2:ϕ_s45.00000°,δ65.00000°,λ-83.00000°. $M_0$7.87000×10^{14}
IDC Error ellipse: s-maj=15.3km s-min=11.3km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=22.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s57.00000°,δ75.00000°,λ-82.00000°. NP2:ϕ_s209.00000°,δ17.00000°,λ-117.00000°. Principal axes: T Plg30.0000°,Azm141.0000°; N Plg7.0000°,Azm235.0000°; P Plg59.0000°,Azm338.0000°
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=104.0.

(228) Near east coast of eastern Honshu

ISC IV 18 10 56 04.5–.95 38.51N–.05 141.96E–.06 46–8 4.3b,3.4s 100 0-146
NIED IV 18 10 56 00 38.50N 141.80E 53 4.2W,3.4s **¶16450752**
ISCJB IV 18 10 56 04.0–.54 38.54N–.04 141.89E–.06 55–3 4.3b,3.2s
NEIC IV 18 10 56 04.0–.52 38.55N 141.95E 35 4.6b,3.2s
MOS IV 18 10 56 04.1–.93 38.59N 141.83E 53 4.5b,3.2s
BJI IV 18 10 56 05.0 38.50N 141.90E 64 4.8b,4.6b
IDC IV 18 10 56 05.7–1.6 38.51N 141.82E 53–14 4.1,4.1
JMA IV 18 10 56 05.3–.10 38.52N 141.84E 48–1 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ23.00000°,λ69.00000°. NP2:ϕ_s18.00000°,δ69.00000°,λ99.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.5km az=31.7.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=131.0.
MOS Error ellipse: s-maj=8.8km s-min=6.1km az=94.8.
IDC Error ellipse: s-maj=15.9km s-min=9.1km az=105.0.
JMA Event type fe.

(249) Luzon

MAN IV 18 11 53 54 13.59N 124.17E 61 5.3b,4.5s
¶601669035

MAN Event type fe. INTENSITY II - SORSOGON CITY.

(227) Eastern Honshu

JMA IV 18 12 16 57.9 37.08N 140.67E 13–1 3.2
¶600591597

JMA Event type fe.

(179) South of Kermadec Islands

ISC IV 18 13 03 04.4–.29 34.29S–.03 179.94E–.03 98–2 6.2b 2501 4-179
MOS IV 18 13 02 57.6–1.1 34.29S 179.91E 46 6.4b,5.9s **¶16445598**
ISCJB IV 18 13 03 00.8–.43 34.30S–.03 179.96E–.02 75–4 6.0b,5.9s
BJI IV 18 13 03 01.0 34.30S 180.00E 80 6.2,6.1s
NEIC IV 18 13 03 02.7–.10 34.34S 179.87E 86 6.6W,6.6W
GCMT IV 18 13 03 02.7–.10 34.40S 179.83W 100–0 6.5W,6.6W
IDC IV 18 13 03 03.4–.83 34.28S 179.97E 90–6 6.0,5.7
NEIC IV 18 13 03 04.0–.00 34.12S 179.81W 90 6.0,5.7
ISC Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=6.4km az=79.2.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=169.1.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=155.0. Felt [II] at Christchurch, Lower Hutt and Wellington, New Zealand. Felt in many parts of the North Island and in a few places on the South Island. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$9.60000×10^{18} Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.80 $M_{\theta\theta}$2.73 $M_{\phi\phi}$3.06 $M_{r\theta}$2.45 $M_{\theta\phi}$-0.69 $M_{\phi r}$7.65 Best double couple: NP1:ϕ_s353.00000°,δ15.00000°,λ-110.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-85.00000°. Principal axes: T 7.6000,Plg31.0000°,Azm279.0000°; N 3.1000,Plg5.0000°,Azm12.0000°; P -10.6000,Plg5.0000°,Azm11.0000° $M_0$9.50000×10^{18}
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c368; s139,c568;Duration: 4^{s}5 Moment tensor: Scale 10^{18} Nm; M_{rr}-3.04±.04 $M_{\theta\theta}$-1.31±.04; $M_{\phi\phi}$4.35±.04; $M_{r\theta}$2.05±.03; $M_{\theta\phi}$0.98±.03; $M_{\phi r}$6.56±.03; Best double couple: NP1:ϕ_s197.00000°,δ76.00000°,λ-84.00000°. NP2:ϕ_s355.00000°,δ15.00000°,λ-111.00000°. Principal axes: T 8.5480,Plg31.0000°,Azm283.0000°; N -1.3860,Plg6.0000°,Azm16.0000°; P -7.1620,Plg59.0000°,Azm115.0000° $M_0$7.85500×10^{18}
IDC Error ellipse: s-maj=10.7km s-min=9.8km az=16.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.50 $M_{\theta\theta}$0.88 $M_{\phi\phi}$3.61 $M_{r\theta}$1.99 $M_{\theta\phi}$1.03 $M_{\phi r}$7.57 Best double couple: NP1:ϕ_s195.00000°,δ76.00000°,λ-91.00000°. NP2:ϕ_s21.00000°,δ14.00000°,λ-84.00000°. Principal axes: T 8.6200,Plg30.0000°,Azm286.0000°; N 0.5500,Plg1.0000°,Azm195.0000°; P -9.1700,Plg59.0000°,Azm103.0000° $M_0$8.90000×10^{18}

(228) Near east coast of eastern Honshu

ISC IV 18 13 03 20.0–.42 40.18N–.04 142.45E–.05 39–2 4.7b,4.6s 285 1-116
NIED IV 18 13 03 00 40.20N 142.40E 38 4.6W,4.6s **¶602597380**
IDC IV 18 13 03 15.1–.76 40.21N 142.39E 0 4.5,4.4
MOS IV 18 13 03 20.7–.97 40.35N 142.29E 46 5.1b,4.4
JMA IV 18 13 03 21.0–.10 40.17N 142.38E 37–1 4.6,4.4
ISCJB IV 18 13 03 21.4–.43 40.27N–.03 142.24E–.05 54–3 4.8b,4.6s
NEIC IV 18 13 03 23.2–1.2 40.34N 142.14E 59–10 4.1b,4.6s
BJI IV 18 13 03 24.3 40.21N 141.88E 76 4.9b,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ20.00000°,λ65.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ99.00000°. $M_0$8.10000×10^{15}
IDC Error ellipse: s-maj=19.6km s-min=12.9km az=135.0.
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=103.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.2km az=32.1.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=9.1km az=138.0.

(228) Near east coast of eastern Honshu

ISC IV 18 14 19 24.9–1.6 38.27N–.05 142.0E–.10 55–12 3.4b 33 1-58
ISCJB IV 18 14 19 24.5–.88 38.28N–.04 141.95E–.09 68–6 3.5b **¶17201415**
JMA IV 18 14 19 25.5–.10 38.32N 141.90E 64–1 3.9
IDC IV 18 14 19 25.2–2.8 38.31N 142.14E 66–23 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.5km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.7km s-min=19.9km az=83.0.

(228) Near east coast of eastern Honshu

JMA IV 18 14 58 12.6 36.88N 140.81E 8–1 3.5
¶600591686

JMA Event type fe.

(227) Eastern Honshu

ISC IV 18 15 07 56.4–.81 37.26N–.03 140.80E–.05 10–5 4.1b 70 0-147
ISCJB IV 18 15 07 54.7–.71 37.25N–.03 141.04E–.04 11–4 4.0b **¶16446638**
IDC IV 18 15 07 54.9–.66 37.31N 140.88E 0 4.1,4.0
JMA IV 18 15 07 55.9 37.23N 140.93E 7 4.1,4.0
MOS IV 18 15 07 57.1–1.1 37.32N 140.99E 24 4.4b,4.0
NEIC IV 18 15 07 58.2–1.6 37.31N 140.89E 21–12 4.4b,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=25.4.
IDC Error ellipse: s-maj=18.9km s-min=14.3km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s187.00000°,δ61.00000°,λ-111.00000°. NP2:ϕ_s45.00000°,δ35.00000°,λ-57.00000°. Principal axes: T Plg14.0000°,Azm292.0000°; N Plg18.0000°,Azm197.0000°; P Plg67.0000°,Azm57.0000°
MOS Error ellipse: s-maj=10.9km s-min=7.7km az=93.6.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=114.0. Recorded [3 JMA] in Fukushima.

(402) North Atlantic Ocean

ISC IV 18 15 38 03.7–.41 32.51N–.06 65.66W–.04 10 4.5b 247 1-161
BJI IV 18 15 38 00.9 32.40N 65.66W 7 4.5b **¶16445605**
ISCJB IV 18 15 38 02.2–.23 32.54N–.03 65.60W–.03 10 4.3b
IDC IV 18 15 38 02.7–.66 32.55N 65.67W 0 4.9L,4.2
NEIC IV 18 15 38 03.9–.98 32.46N 65.60W 10–6 4.6b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=23.5.
IDC Error ellipse: s-maj=17.8km s-min=14.4km az=4.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=56.0. Felt [II] at Hamilton and Saint George.

(228) Near east coast of eastern Honshu

ISC IV 18 15 43 45.1–1.9 35.42N–.05 140.84E–.06 2–12 3.5b 29 0-65
ISCJB IV 18 15 43 45.4–.92 35.42N–.03 141.07E–.07 19–6 3.5b **¶17201423**
JMA IV 18 15 43 47.1–.10 35.48N 140.86E 24–1 3.8
IDC IV 18 15 43 49.0–5.7 35.29N 141.07E 33–43 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.2km az=4.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.9km s-min=15.8km az=85.0.

(228) Near east coast of eastern Honshu

ISC IV 18 16 20 19.5–1.4 37.43N–.04 141.32E–.08 31–8 3.8b 32 0-74
ISCJB IV 18 16 20 18.9–.81 37.40N–.03 141.34E–.09 41–7 3.7b,3.2s **¶16505426**
JMA IV 18 16 20 20.1–.10 37.42N 141.29E 33–1 3.9,3.2s
IDC IV 18 16 20 22.8–2.4 37.33N 141.23E 63–24 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.2km az=10.4.
JMA Event type fe.
IDC Error ellipse: s-maj=25.6km s-min=14.3km az=92.0.

(224) Hokkaido region

ISC IV 18 17 26 06.2–.79 41.48N–.04 142.06E–.04 59–7 4.3b,3.6s 109 1-89
NIED IV 18 17 26 00 41.50N 142.00E 56 4.3W,3.6s **¶16505427**
MOS IV 18 17 26 03.0–2.2 41.59N 141.93E 33 4.6b,3.6s
ISCJB IV 18 17 26 05.5–.33 41.50N–.03 142.04E–.04 68–2 4.1b,3.6s
JMA IV 18 17 26 06.2–.10 41.48N 142.01E 63–2 4.0,3.6s
IDC IV 18 17 26 07.8–1.6 41.46N 142.00E 75–13 4.1,4.0
NEIC IV 18 17 26 07.5–.48 41.47N 142.09E 74–5 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ40.00000°,λ52.00000°. NP2:ϕ_s16.00000°,δ60.00000°,λ117.00000°. $M_0$2.83000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=90.9.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=139.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ83.00000°,λ98.00000°. NP2: ϕ_s145.00000°,δ10.00000°,λ40.00000°. Principal axes: T Plg51.0000°,Azm294.0000°; N Plg8.0000°,Azm194.0000°; P Plg38.0000°,Azm98.0000°
IDC Error ellipse: s-maj=15.5km s-min=10.7km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=122.0. Recorded [2 JMA] in Aomori, Honshu.

(228) Near east coast of eastern Honshu

ISC IV 18 17 29 01.2–1.8 36.94N–.04 141.33E–.08 28–12 3.7b 28 0-61
IDC IV 18 17 28 55.8–2.0 37.05N 141.69E 0 3.8,3.8 **¶17201432**
NIED IV 18 17 29 00 36.90N 141.20E 47 3.8W,3.8
JMA IV 18 17 29 03.2–.10 36.93N 141.22E 45–1 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=19.7km az=68.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ11.00000°,λ-179.00000°. NP2:ϕ_s227.00000°,δ90.00000°,λ-79.00000°. $M_0$6.26000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(230) Near south coast of eastern Honshu

ISC IV 18 17 37 07.8–.57 35.55N–.04 139.67E–.04 83–5 4.2b 105 0-125
NIED IV 18 17 37 00 35.50N 139.60E 80 4.2W **¶602557577**
MOS IV 18 17 37 05.2–1.3 35.52N 139.84E 77 4.4b
ISCJB IV 18 17 37 06.9–.25 35.50N–.03 139.66E–.04 91–2 4.1b
JMA IV 18 17 37 07.7–.10 35.55N 139.67E 84–2 4.2
NEIC IV 18 17 37 07.5–.55 35.49N 139.62E 81–5 4.4b
IDC IV 18 17 37 08.2–.80 35.47N 139.66E 89–7 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ26.00000°,λ-12.00000°. NP2:ϕ_s307.00000°,δ85.00000°,λ-116.00000°. $M_0$2.28000×10^{15}
MOS Error ellipse: s-maj=10.2km s-min=6.3km az=94.3.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=155.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s306.00000°,δ83.00000°,λ-109.00000°. NP2: ϕ_s195.00000°,δ20.00000°,λ-22.00000°. Principal axes: T Plg35.0000°,Azm52.0000°; N Plg19.0000°,Azm308.0000°; P Plg49.0000°,Azm195.0000°
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=101.0. Recorded [3 JMA] in Kanagawa.
IDC Error ellipse: s-maj=14.1km s-min=5.6km az=72.0.

(228) Near east coast of eastern Honshu

ISC IV 18 17 54 15.4–1.8 36.30N–.04 141.43E–.06 6–10 3.9b 39 1-147
NIED IV 18 17 54 00 36.30N 141.30E 26 4.2W **¶16587533**
IDC IV 18 17 54 14.2–.72 36.24N 141.49E 0 3.9,3.8
ISCJB IV 18 17 54 16.2–.88 36.32N–.03 141.45E–.05 22–5 3.9b,2.9s
JMA IV 18 17 54 18.4–.10 36.31N 141.29E 47–2 3.8,2.9s
NEIC IV 18 17 54 18.6–3.1 36.29N 141.49E 29–22 4.7b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ22.00000°,λ-43.00000°. NP2:ϕ_s228.00000°,δ75.00000°,λ-107.00000°. $M_0$1.91000×10^{15}
IDC Error ellipse: s-maj=18.8km s-min=15.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.1km az=5.1.

JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.9km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 18 02 37.6–.60**	**39.49N–.04**	**142.83E–.04**	**27–3**	**4.9b,4.4s**	**320**	**1-145**
NIED	IV	18 18 02 00	39.40N	142.90E	14	4.7W,4.4s		¶16445783
IDC	IV	18 18 02 33.5–.50	39.42N	142.74E	0	4.7,4.6		
JMA	IV	18 18 02 34.7–.10	39.44N	142.89E	23–2	4.8,4.6		
MOS	IV	18 18 02 34.8–1.2	39.51N	142.87E	19	5.1b,4.1s		
ISCJB	IV	18 18 02 35.2–.77	39.50N–.03	142.85E–.04	19–4	4.8b,4.3s		
BJI	IV	18 18 02 38.1	39.49N	142.74E	50	5.0b,4.8b		
NEIC	IV	18 18 02 40.1–.70	39.54N	142.74E	43–6	4.8b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ22.00000°,λ-90.00000°. NP2:ϕ_s18.00000°,δ68.00000°,λ-90.00000°. $M_0$1.14000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=11.8km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=103.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=36.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.7km az=132.0.

(227) Eastern Honshu

ISC	**IV**	**18 19 14 28.1–.88**	**39.61N–.03**	**140.37E–.03**	**9–5**	**4.6b,4.0s**	**184**	**0-146**
NIED	IV	18 19 14 00	39.60N	140.40E	5	4.7W,4.0s		¶602557579
BJI	IV	18 19 14 23.3	39.45N	140.65E	10	4.7b,4.5b		
IDC	IV	18 19 14 26.6–.53	39.64N	140.19E	0	4.5,4.4		
JMA	IV	18 19 14 27.2	39.60N	140.39E	6–1	4.9,4.4		
ISCJB	IV	18 19 14 27.2–.47	39.60N–.02	140.32E–.03	13–3	4.5b,4.0s		
MOS	IV	18 19 14 30.7–1.2	39.68N	140.18E	37	4.7b,4.0s		
NEIC	IV	18 19 14 32.6–.66	39.67N	140.25E	37–6	4.6b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ49.00000°,λ178.00000°. NP2:ϕ_s79.00000°,δ89.00000°,λ41.00000°. $M_0$1.27000×10^{16}
IDC Error ellipse: s-maj=15.6km s-min=11.9km az=110.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s93.00000°,δ78.00000°,λ19.00000°. NP2:ϕ_s359.00000°,δ72.00000°,λ167.00000°. Principal axes: T Plg22.0000°,Azm317.0000°; N Plg68.0000°,Azm125.0000°; P Plg4.0000°,Azm225.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.4km az=16.4.
MOS Error ellipse: s-maj=7.6km s-min=4.8km az=88.1.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=128.0. Recorded [5L JMA] in Akita.

(228) Near east coast of eastern Honshu

ISC	**IV**	**18 21 33 50.4–.40**	**36.67N–.03**	**141.42E–.03**	**26–2**	**4.7b,4.1s**	**357**	**1-155**
NIED	IV	18 21 33 00	36.70N	141.50E	32	4.6W,4.1s		¶17201446
BJI	IV	18 21 33 46.2	36.35N	141.51E	18	4.8b,4.7b		
MOS	IV	18 21 33 47.7–1.2	36.74N	141.48E	18	4.9b,4.7b		
ISCJB	IV	18 21 33 49.8–.71	36.60N–.02	141.45E–.03	33–4	4.7b,4.1s		
NEIC	IV	18 21 33 49.8–.54	36.64N	141.40E	22–3	4.8b,4.1s		
IDC	IV	18 21 33 51.7–.67	36.67N	141.45E	37–5	4.4,4.3		
JMA	IV	18 21 33 51.0–.10	36.71N	141.47E	37–3	4.8,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ10.00000°,λ-149.00000°. NP2:ϕ_s194.00000°,δ85.00000°,λ-81.00000°. $M_0$9.22000×10^{15}
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=96.3.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.4km az=154.6.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=143.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=12.1km s-min=10.4km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(502) Arkansas

ISC	**IV**	**18 21 52 34.4–.84**	**35.25N–.02**	**92.38W–.03**	**7–5**		**39**	**0-2**
ISCJB	IV	18 21 52 34.1–.39	35.26N–.02	92.41W–.03	2–4			¶16648972
NEIC	IV	18 21 52 34.5	35.24N	92.35W	5	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=0.1.
NEIC Event type fe. Felt at Greenbrier. After CERI.

(259) Mindanao

ISC	**IV**	**18 23 06 15.6–1.0**	**9.93N–.08**	**125.87E–.07**	**10**	**4.1b**	**15**	**0-100**
ISCJB	IV	18 23 06 14.2–.90	9.85N–.09	126.03E–.06	10	3.9b,3.4s		¶17201453
MAN	IV	18 23 06 18	9.87N	125.79E	18	4.9b,3.9s		
IDC	IV	18 23 06 25.7–4.5	9.80N	126.05E	94–40	4.0,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.8km az=172.8.
MAN Event type fe. INTENSITY II - SURIGAO CITY; INTENSITY I - MALIMONO SURIGAO DEL NORTE.
IDC Error ellipse: s-maj=76.4km s-min=23.9km az=76.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 00 06 54.8–.58**	**37.74N–.04**	**141.64E–.07**	**59–4**	**3.9b**	**48**	**1-146**
NIED	IV	19 00 06 00	37.80N	141.60E	62	3.9W		¶16505433
ISCJB	IV	19 00 06 53.5–.77	37.75N–.04	141.67E–.09	62–6	3.8b		
JMA	IV	19 00 06 54.5	37.76N	141.64E	54–1	3.9		
IDC	IV	19 00 06 55.0–.52	37.67N	141.80E	63–4	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ45.00000°,λ81.00000°. NP2:ϕ_s8.00000°,δ46.00000°,λ99.00000°. $M_0$8.26000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=5.8km az=11.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.6km s-min=8.5km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 00 46 55.2–.81**	**36.08N–.04**	**140.03E–.05**	**72–6**	**3.9b**	**42**	**0-83**
NIED	IV	19 00 46 00	36.10N	140.00E	68	3.7W		¶600592128
ISCJB	IV	19 00 46 54.4–.46	36.08N–.03	140.04E–.06	80–3	3.8b		
JMA	IV	19 00 46 55.8–.10	36.09N	140.01E	67–1	3.6		
IDC	IV	19 00 46 57.0–1.8	36.01N	139.86E	88–14	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ94.00000°. NP2:ϕ_s358.00000°,δ70.00000°,λ89.00000°. $M_0$4.31000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.3km az=4.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s358.00000°,δ62.00000°,λ83.00000°. NP2:ϕ_s192.00000°,δ28.00000°,λ102.00000°. Principal axes: T Plg72.0000°,Azm253.0000°; N Plg6.0000°,Azm1.0000°; P Plg17.0000°,Azm93.0000°
IDC Error ellipse: s-maj=28.0km s-min=7.9km az=65.0.

(134) Off coast of central Chile

ISC	**IV**	**19 00 57 28.9–.48**	**33.44S–.03**	**72.38W–.04**	**26–3**	**5.0b,4.7s**	**374**	**1-176**
IDC	IV	19 00 57 24.7–.52	33.45S	72.29W	0	4.7,4.6L		¶16445792
GCMT	IV	19 00 57 27.0–.30	33.30S	72.48W	21–0	5.1W,4.6L		
NEIC	IV	19 00 57 27.0	33.42S	72.43W	45	5.0b,4.6L		
ISCJB	IV	19 00 57 27.4–.96	33.48S–.02	72.42W–.03	27–7	4.9b,4.6s		
GUC	IV	19 00 57 27.2–.69	33.42S	72.43W	45–3	5.0L,4.6s		
BJI	IV	19 00 57 29.1	33.40S	72.10W	21	5.2s,5.0		
MOS	IV	19 00 57 29.3–1.3	33.42S	72.23W	32	5.1b,5.0		

ISC Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=13.4km az=88.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c40; s61,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.06±.21 $M_{\theta\theta}$-0.01±.12; $M_{\phi\phi}$-4.05±.15; $M_{r\theta}$-0.81±.20; $M_{\theta\phi}$-0.21±.08; $M_{\phi r}$-2.53±.23; Best double couple: NP1:ϕ_s191.00000°,δ62.00000°,λ97.00000°. NP2:ϕ_s355.00000°,δ29.00000°,λ76.00000°. Principal axes: T 4.8900,Plg72.0000°,Azm119.0000°; N -0.0790,Plg7.0000°,Azm7.0000°; P -4.8130,Plg16.0000°,Azm275.0000° $M_0$4.85100×10^{16}
NEIC Event type fe. Felt [IV] at Navidad, Villa Alemana and Vina del Mar; [III] at Algarrobo, San Antonio, San Bernardo, Santiago, Santo Domingo and Valparaiso; [II] at Colina, Rancagua and Tiltil. Also felt at Calera, Melipilla and Quilpue. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=13.0.
GUC Error ellipse: s-maj=1.9km s-min=3.3km az=-1.0.
MOS Error ellipse: s-maj=18.1km s-min=8.2km az=101.3.

(162) South Island

WEL	**IV**	**19 01 31 28.9–.10**	**43.53S**	**172.77E**	**8–0**	**4.0L**		
NEIC	IV	19 01 31 29.0	43.53S	172.77E	7	4.0L,3.8b		¶16446875

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 02 19 48.6–.10**	**38.03N**	**141.88E**	**49–1**	**3.7**		¶600592208

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 02 21 57.3–.10**	**38.75N**	**142.19E**	**37–2**	**3.7**		¶600592211

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 02 26 52.0–.66**	**39.12N–.05**	**142.2E–.10**	**38–3**	**3.6b**	**34**	**0-88**
NIED	IV	19 02 26 00	39.20N	142.30E	47	3.9W		¶17201462
ISCJB	IV	19 02 26 51.6–.90	39.15N–.04	142.3E–.10	48–7	3.5b		
JMA	IV	19 02 26 51.1–.10	39.16N	142.34E	37–1	3.9		
IDC	IV	19 02 26 51.8–.69	39.02N	142.23E	38–6	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ22.00000°,λ-147.00000°. NP2:ϕ_s209.00000°,δ78.00000°,λ-71.00000°. $M_0$9.17000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=6.4km az=14.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=16.2km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 03 02 51.9–.85**	**38.15N–.04**	**141.77E–.07**	**43–6**	**3.6b**	**42**	**0-89**
NIED	IV	19 03 02 00	38.20N	141.70E	56	4.0W		¶16505436
ISCJB	IV	19 03 02 51.2–.76	38.15N–.04	141.73E–.09	53–6	3.6b		
JMA	IV	19 03 02 51.9–.10	38.17N	141.71E	50–1	3.7		
IDC	IV	19 03 02 53.4–2.4	38.08N	141.56E	59–23	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ34.00000°,λ29.00000°. NP2:ϕ_s26.00000°,δ74.00000°,λ120.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.1km az=19.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=13.6km az=90.0.

(78) Costa Rica

ISC	**IV**	**19 03 44 58.0–1.8**	**9.67N–.06**	**84.69W–.05**	**17–13**	**3.4b**	**27**	**0-84**
NEIC	IV	19 03 45 00.8–2.1	9.69N	84.78W	35	4.2		¶16532041
CASC	IV	19 03 45 01.4–1.8	9.68N	84.69W	32–5	4.2		
IDC	IV	19 03 45 04.0–1.1	10.84N	84.97W	0	3.7,3.5		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=53.0km s-min=15.6km az=210.0. Felt at Colon, Herradura, Jaco and Paquera.
CASC Error ellipse: s-maj=5.7km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=42.9km s-min=8.7km az=84.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 03 59 51.6–1.0**	**36.71N–.05**	**140.83E–.07**	**20–3**	**3.5b**	**22**	**0-74**
NIED	IV	19 03 59 00	36.70N	140.80E	8	3.5W		¶17201464
IDC	IV	19 03 59 46.6–1.0	36.80N	141.42E	0	3.8L,3.7		
ISCJB	IV	19 03 59 49.7–1.1	36.67N–.04	141.05E–.07	20–6	3.5b,3.7		
JMA	IV	19 03 59 52.6	36.75N	140.80E	14–1	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ43.00000°,λ-95.00000°. NP2:ϕ_s155.00000°,δ47.00000°,λ-85.00000°. $M_0$1.89000×10^{14}
IDC Error ellipse: s-maj=29.7km s-min=21.0km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.3km az=27.6.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**IV**	**19 04 04 31.8–.54**	**37.29N–.04**	**143.48E–.03**	**26–3**	**5.0b,4.7s**	**812**	**2-153**
NIED	IV	19 04 04 00	37.30N	143.50E	5	4.9W,4.7s		¶16446644
IDC	IV	19 04 04 27.3–.43	37.14N	143.56E	0	4.9,4.9		
ISCJB	IV	19 04 04 29.0–.76	37.27N–.02	143.47E–.02	14–4	5.0b,4.6s		
BJI	IV	19 04 04 28.6	37.29N	143.36E	10	5.2b,4.9b		
GCMT	IV	19 04 04 30.1–.20	37.28N	143.63E	12	5.0W,4.9b		
NEIC	IV	19 04 04 30.1–1.6	37.19N	143.49E	14–10	5.0b,4.9b		
MOS	IV	19 04 04 31.6–.93	37.48N	143.47E	25	5.2b,4.5s		
JMA	IV	19 04 04 31.7–.30	37.34N	143.46E	41	4.7,4.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ38.00000°,λ-80.00000°. NP2:ϕ_s194.00000°,δ53.00000°,λ-97.00000°. $M_0$2.76000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=165.4.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c39; s98,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.57±.07 $M_{\theta\theta}$0.87±.07; $M_{\phi\phi}$2.69±.07; $M_{r\theta}$0.28±.29; $M_{\theta\phi}$1.27±.06; $M_{\phi r}$-0.63±.27; Best double couple: NP1:ϕ_s19.00000°,δ49.00000°,λ-100.00000°. NP2:ϕ_s215.00000°,δ42.00000°,λ-78.00000°. Principal axes: T 3.3710,Plg4.0000°,Azm117.0000°; N 0.2940,Plg8.0000°,Azm26.0000°; P -3.6710,Plg81.0000°,Azm231.0000° $M_0$3.52100×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=138.0.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=107.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

(238) Ryukyu Islands

ISC	**IV**	**19 05 05 28.0–.36**	**27.98N–.03**	**128.09E–.03**	**22–3**	**4.5b,4.2s**	**174**	**1-99**
NIED	IV	19 05 05 00	28.10N	128.00E	5	4.9W,4.2s		¶16449044
JMA	IV	19 05 05 25.0–.20	28.11N	128.04E	16–3	4.7,4.2s		
BJI	IV	19 05 05 25.6	27.85N	127.99E	20	4.8b,4.8s		
ISCJB	IV	19 05 05 26.1–.64	28.07N–.03	128.05E–.03	22–5	4.5b,4.2s		
MOS	IV	19 05 05 27.5–1.1	28.05N	128.01E	33	4.7b,4.0s		
NEIC	IV	19 05 05 28.8–.32	28.11N	128.24E	35	4.8b,4.0s		
IDC	IV	19 05 05 33.1–2.5	28.12N	128.09E	75–23	4.2,4.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ35.00000°,λ-15.00000°. NP2:ϕ_s47.00000°,δ82.00000°,λ-124.00000°. $M_0$2.35000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.8km az=39.1.
MOS Error ellipse: s-maj=9.4km s-min=6.0km az=106.6.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=100.0. Recorded [1 JMA] on Tokuno-shima.
IDC Error ellipse: s-maj=18.1km s-min=11.8km az=71.0.

(248) Philippine Islands region

ISC	**IV**	**19 05 30 37.6–.43**	**19.03N–.03**	**121.19E–.04**	**32–3**	**4.7b,4.1s**	**317**	**1-173**
IDC	IV	19 05 30 31.6–.42	18.93N	121.30E	0	4.5,4.4		¶16449045
MAN	IV	19 05 30 32	19.41N	121.06E	19	5.8b,5.3s		
BKK	IV	19 05 30 33.6–.90	19N–6.0	122E–10	10	5.0b,4.6b		
ISCJB	IV	19 05 30 36.3–.16	19.14N–.02	121.24E–.03	30	4.6b,4.1s		
NEIC	IV	19 05 30 37.7–.60	18.91N	121.32E	40–5	4.8b,4.1s		
GCMT	IV	19 05 30 37.7–.30	19.06N	120.95E	46–1	5.0W,4.1s		
MOS	IV	19 05 30 38.1–1.0	18.95N	121.37E	62	4.8b,4.1s		
BJI	IV	19 05 30 40.9	19.40N	120.89E	31	4.9b,4.7L		
KLM	IV	19 05 30 49.0	18.72N	121.37E	156	5.6s,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=10.6km az=85.0.
MAN Event type fe. INTENSITY V - CALAYAN CAGAYAN; INTENSITY III - CLAVERIA CAGAYAN; INTENSITY II - PASUQUIN SARRAT BATAC ILOCOS NORTE; LAOAG CITY.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=7.2.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=106.0. Felt [V PIVS] at Calayan, [III PIVS] at Claveria and [II PIVS] at Batac, Laoag, Pasuquin and Sarrat. Also felt at Pagudpud.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c50; s63,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.06±.23 $M_{\theta\theta}$-0.24±.14; $M_{\phi\phi}$-2.82±.16; $M_{r\theta}$-1.54±.10; $M_{\theta\phi}$-1.86±.08; $M_{\phi r}$-0.98±.14; Best double couple: NP1:ϕ_s223.00000°,δ60.00000°,λ109.00000°. NP2:ϕ_s10.00000°,δ35.00000°,λ62.00000°. Principal axes: T 3.6760,Plg69.0000°,Azm173.0000°; N 0.4700,Plg16.0000°,Azm34.0000°; P -4.1500,Plg13.0000°,Azm300.0000° $M_0$3.91300×10^{16}
MOS Error ellipse: s-maj=9.3km s-min=5.4km az=96.7.

(134) Off coast of central Chile

ISC	**IV**	**19 05 50 45.2–.61**	**33.94S–.03**	**72.36W–.04**	**15–3**	**5.3b,4.8s**	**934**	**1-176**
IDC	IV	19 05 50 42.8–.41	33.88S	72.27W	0	5.1,5.1		¶16446648
ISCJB	IV	19 05 50 44.5–.96	33.90S–.02	72.47W–.03	19–6	5.2b,4.7s		
GUC	IV	19 05 50 44.8–.53	33.93S	72.42W	31–4	5.0L,4.7s		
NEIC	IV	19 05 50 45.4–.58	33.85S	72.15W	13–3	5.3b,5.0L		
MOS	IV	19 05 50 45.8–.99	33.72S	72.17W	22	5.4b,4.7s		

GCMT IV 19 05 50 45.4–.20 33.97S 72.65W 21–0 5.2W,4.7s
BJI IV 19 05 50 45.0 33.80S 72.10W 10 5.3s,5.1b
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=11.9km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.2km az=6.0.
GUC Error ellipse: s-maj=1.5km s-min=4.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=74.0. Felt [II] at Santiago. Also felt at Quilpue, San Felipe, Valparaiso and Vina del Mar.
MOS Error ellipse: s-maj=14.2km s-min=6.8km az=100.4.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c48; s76,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.81±.24 $M_{\theta\theta}$-0.36±.14; $M_{\phi\phi}$-4.44±.17; $M_{r\theta}$0.12±.24; $M_{\theta\phi}$-1.08±.10; $M_{\phi r}$-4.58±.30; Best double couple: NP1:ϕ_s184.00000°,δ67.00000°,λ82.00000°. NP2:ϕ_s23.00000°,δ24.00000°,λ108.00000°. Principal axes: T 6.7330,Plg67.0000°,Azm79.0000°; N -0.2530,Plg7.0000°,Azm187.0000°; P -6.4730,Plg22.0000°,Azm280.0000° M_o6.60300×10^{16}

(227) Eastern Honshu

ISC	**IV**	**19 06 53 33.0–.84**	**37.07N–.03**	**140.59E–.03**	**10–5**	**4.6b,3.9s**	**305**	**0-147**
NIED	IV	19 06 53 00	37.00N	140.70E	5	4.5W,3.9s		¶16446651
BJI	IV	19 06 53 31.5	36.98N	140.67E	14	4.8b,4.6b		
JMA	IV	19 06 53 32.7	37.02N	140.65E	7–1	4.6,4.6b		
ISCJB	IV	19 06 53 33.2–.42	37.07N–.02	140.54E–.03	18–3	4.6b,4.0s		
MOS	IV	19 06 53 34.8–1.1	37.15N	140.52E	29	4.8b,4.0s		
IDC	IV	19 06 53 37.4–1.9	37.05N	140.56E	42–17	4.5,4.4		
NEIC	IV	19 06 53 37.8–.56	37.07N	140.45E	39–5	4.6b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ27.00000°,λ-69.00000°. NP2:ϕ_s200.00000°,δ65.00000°,λ-100.00000°. M_o5.52000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s189.00000°,δ63.00000°,λ-97.00000°. NP2:ϕ_s24.00000°,δ28.00000°,λ-76.00000°. Principal axes: T Plg18.0000°,Azm284.0000°; N Plg6.0000°,Azm192.0000°; P Plg71.0000°,Azm83.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=44.7.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=87.3.
IDC Error ellipse: s-maj=13.5km s-min=9.8km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=140.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

JMA	**IV**	**19 06 59 41.9**	**37.02N**	**140.66E**	**5–1**	**3.0**		**¶600592412**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 07 03 03.2–2.0**	**37.34N–.05**	**141.47E–.10**	**26–13**		**24**	**0-57**
IDC	IV	19 07 03 01.2–2.6	37.17N	141.62E	0	3.5,3.3b		¶17201480
JMA	IV	19 07 03 04.0–.10	37.34N	141.44E	31–1	3.6,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=48.3km s-min=33.4km az=43.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(163) Cook Strait

WEL	**IV**	**19 09 01 30.2–.10**	**41.09S**	**174.52E**	**48–1**	**3.5L**		**¶602945440**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=0.0. Felt from Wellington to Nelson, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 10 00 59.0–.10**	**38.55N**	**141.97E**	**32–1**	**3.6**		**¶600592585**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(502) Arkansas

ISC	**IV**	**19 10 33 09.3–.78**	**35.26N–.02**	**92.38W–.02**	**5–4**		**137**	**0-16**
ISCJB	IV	19 10 33 08.5–.26	35.26N–.01	92.35W–.01	8–1			¶16449049
IASPE	IV	19 10 33 09.1–1.2	35.27N–.03	92.38W–.03	6–6			
NEIC	IV	19 10 33 09.3	35.25N	92.36W	3	3.5b,3.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=7.4.
IASPE Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=68.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Antoine, Beebe, Benton, Cabot, Conway and Vilonia. After CERI.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 11 52 34.9–.20**	**35.70N**	**140.93E**	**10–1**	**3.7**		
NIED	IV	19 11 52 00	35.70N	140.90E	5	3.6W		¶600592705

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ29.00000°,λ-98.00000°. NP2:ϕ_s176.00000°,δ62.00000°,λ-86.00000°. M_o2.75000×10^{14}

(364) Greece

ISC	**IV**	**19 12 13 18.5–.42**	**38.09N–.02**	**22.06E–.02**	**54–3**	**4.5b,3.2s**	**1006**	**0-121**
BJI	IV	19 12 13 14.6	38.63N	21.42E	44	4.8b,4.6b		¶16447756
MOS	IV	19 12 13 15.1–1.7	38.03N	22.00E	33	4.6b,4.6b		
PDG	IV	19 12 13 18.3–.80	38.11N	21.95E	62–2	4.6L,4.6b		
IDC	IV	19 12 13 18.7–1.3	38.17N	22.04E	55–13	4.4,4.2		
ISCJB	IV	19 12 13 18.2–.12	38.15N–.01	22.00E–.01	67–1	4.4b,4.2		
ATH	IV	19 12 13 18.8	38.12N	22.08E	58–1	4.4L,4.2		
TIR	IV	19 12 13 18.3	38.53N	22.18E	4	4.0L,4.2		
CSEM	IV	19 12 13 19.2–.07	38.13N	21.98E	60	4.5b,4.0W		
NEIC	IV	19 12 13 19.0	38.10N	22.08E	55	4.5b,4.0W		
HLW	IV	19 12 13 20.4	37.93N	22.57E	33–24	4.2,3.9L		
THE	IV	19 12 13 20.1	38.11N	22.09E	52–1	4.5L,3.9L		

ISC Event type ke.
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=80.7.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0.
IDC Error ellipse: s-maj=9.3km s-min=8.4km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=33.8.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=249.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=34.0.
NEIC Event type fe. Felt at Kalavryta, Nea Filadelfeia, Patrai and Zakharo. After ATH.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=231.0.

(227) Eastern Honshu

ISC	**IV**	**19 12 34 26.6–.97**	**37.07N–.03**	**140.65E–.03**	**9–6**	**3.9b**	**51**	**0-147**
NIED	IV	19 12 34 00	37.10N	140.70E	8	3.8W		¶602557609
IDC	IV	19 12 34 25.1–.63	37.08N	140.66E	0	4.1,4.0s		
ISCJB	IV	19 12 34 26.3–.49	37.08N–.02	140.76E–.04	18–3	4.1s,3.9b		
JMA	IV	19 12 34 26.7	37.07N	140.67E	9–1	4.1,3.9b		
NEIC	IV	19 12 34 30.4–.82	37.10N	140.66E	35–7	4.2b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ25.00000°,λ-117.00000°. NP2:ϕ_s157.00000°,δ68.00000°,λ-78.00000°. M_o4.97000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=13.9km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.5km az=23.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s148.00000°,δ55.00000°,λ-97.00000°. NP2:ϕ_s341.00000°,δ35.00000°,λ-79.00000°. Principal axes: T Plg10.0000°,Azm243.0000°; N Plg6.0000°,Azm152.0000°; P Plg78.0000°,Azm32.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=5.9km az=132.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 12 55 32.5–.69**	**40.07N–.03**	**142.13E–.05**	**45–6**	**4.6b,3.6s**	**258**	**0-151**
NIED	IV	19 12 55 00	40.10N	142.10E	50	4.3W,3.6s		¶16447757
MOS	IV	19 12 55 31.8–.91	40.15N	142.05E	50	4.8b,3.6s		
ISCJB	IV	19 12 55 32.1–.37	40.08N–.03	142.13E–.04	54–2	4.5b,3.5s		
JMA	IV	19 12 55 33.3–.10	40.08N	142.11E	48–1	4.3,3.5s		
IDC	IV	19 12 55 34.7–1.6	40.06N	142.06E	66–13	4.4,4.3		
NEIC	IV	19 12 55 35.1–.54	40.08N	142.08E	69–4	4.5b,4.3		
BJI	IV	19 12 55 41.5	41.20N	141.60E	60	4.7b,4.7b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ20.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ70.00000°,λ87.00000°. M_o3.65000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=4.7km az=101.2.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.9km az=26.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.1km s-min=9.6km az=114.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=127.0. Felt [IV] at Misawa. Recorded [4 JMA] in Aomori.

(238) Ryukyu Islands

ISC	**IV**	**19 13 06 07.7–1.5**	**28.02N–.05**	**128.03E–.05**	**6–10**	**3.8b,3.5s**	**29**	**1-77**
NIED	IV	19 13 06 00	28.10N	128.10E	5	4.3W,3.5s		¶600592798
JMA	IV	19 13 06 08.7–.20	28.08N	128.06E	16–2	4.0,3.5s		
IDC	IV	19 13 06 15.8–3.2	28.04N	127.91E	69–31	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ29.00000°,λ-18.00000°. NP2:ϕ_s39.00000°,δ81.00000°,λ-118.00000°. M_o3.25000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=15.8km az=72.0.

(315) India-Bangladesh border region

ISC	**IV**	**19 13 39 37.1–.59**	**23.72N–.06**	**92.62E–.05**	**35**	**4.0b**	**51**	**2-91**
IDC	IV	19 13 39 31.6–.68	23.76N	92.84E	0	4.1,4.0		¶16505440
ISCJB	IV	19 13 39 34.5–.38	23.64N–.05	92.63E–.04	33	4.0b,2.7s		
NEIC	IV	19 13 39 37.4–.77	23.77N	92.87E	38–7	4.1b,2.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=27.7km s-min=14.0km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.8km az=35.3.
NEIC Event type fe. Error ellipse: s-maj=12.8km s-min=4.8km az=56.0. Felt [IV] at Aizawl, India.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 14 01 33.8–.10**	**36.64N**	**141.06E**	**42–2**	**3.5**		**¶600592837**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**19 14 10 18.9–.38**	**36.17N–.03**	**139.81E–.03**	**57–3**	**5.1b,4.1s**	**1073**	**0-153**
NIED	IV	19 14 10 00	36.20N	139.80E	62	4.9W,4.1s		¶16447761
BJI	IV	19 14 10 13.9	35.98N	140.23E	65	4.9b,4.9b		
MOS	IV	19 14 10 17.6–.85	36.26N	139.68E	52	5.4b,4.9b		
ISCJB	IV	19 14 10 18.7–.25	36.14N–.02	139.69E–.02	64–2	5.1b,4.9b		
IDC	IV	19 14 10 19.6–1.2	36.17N	139.72E	58–10	5.0,4.8		
JMA	IV	19 14 10 20.0–.10	36.17N	139.81E	53–1	5.0,4.8		
GCMT	IV	19 14 10 20.1–.20	36.18N	139.83E	64–1	4.9W,4.8		
NEIC	IV	19 14 10 20.1–.33	36.16N	139.63E	64–2	5.0b,4.8		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ26.00000°,λ101.00000°. NP2:ϕ_s48.00000°,δ65.00000°,λ85.00000°. M_o2.40000×10^{16}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=106.7.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=151.9.
IDC Error ellipse: s-maj=10.7km s-min=6.5km az=81.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s43.00000°,δ57.00000°,λ81.00000°. NP2:ϕ_s240.00000°,δ34.00000°,λ104.00000°. Principal axes: T Plg76.0000°,Azm286.0000°; N Plg8.0000°,Azm48.0000°; P Plg12.0000°,Azm140.0000°
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s71,c116; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.87±.11 $M_{\theta\theta}$-2.12±.10; $M_{\phi\phi}$-0.75±.10; $M_{r\theta}$1.04±.08; $M_{\theta\phi}$-1.24±.07; $M_{\phi r}$1.00±.07; Best double couple: NP1:ϕ_s54.00000°,δ58.00000°,λ84.00000°. NP2:ϕ_s245.00000°,δ32.00000°,λ100.00000°. Principal axes: T 3.2280,Plg76.0000°,Azm306.0000°; N -0.0500,Plg5.0000°,Azm57.0000°; P -3.1800,Plg13.0000°,Azm148.0000° M_o3.20400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=145.0. Felt [II] at Tokyo. Also felt at Agui and Oyama. Recorded [4 JMA] in Ibaraki, Saitama and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 14 29 35.9–1.6**	**36.37N–.05**	**141.01E–.07**	**29–11**	**3.5b**	**24**	**0-60**
NIED	IV	19 14 29 00	36.30N	141.00E	38	3.7W		¶17201508
IDC	IV	19 14 29 31.3–1.6	36.25N	141.21E	0	3.6,3.6		
ISCJB	IV	19 14 29 34.9–1.2	36.31N–.04	141.10E–.07	33–7	3.5b,3.1s		
JMA	IV	19 14 29 35.6–.10	36.31N	141.04E	45–1	3.6,3.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ15.00000°,λ-157.00000°. NP2:ϕ_s181.00000°,δ84.00000°,λ-76.00000°. M_o3.91000×10^{14}
IDC Error ellipse: s-maj=44.8km s-min=22.4km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.5km az=5.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 14 35 36.5**	**36.97N**	**140.76E**	**10–1**	**3.5**		**¶600592861**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s315.00000°,δ56.00000°,λ-103.00000°. NP2:ϕ_s157.00000°,δ36.00000°,λ-71.00000°. Principal axes: T Plg10.0000°,Azm54.0000°; N Plg11.0000°,Azm322.0000°; P Plg75.0000°,Azm186.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 14 47 08.7–.92**	**36.91N–.03**	**140.80E–.05**	**13–5**	**4.5b,3.2s**	**163**	**0-147**
NIED	IV	19 14 47 00	36.90N	140.90E	5	4.2W,3.2s		¶16448718
ISCJB	IV	19 14 47 06.8–.62	36.87N–.02	140.91E–.04	12–3	4.4b,3.3s		
NEIC	IV	19 14 47 06.9–2.1	36.90N	140.84E	2–13	4.6b,3.3s		
IDC	IV	19 14 47 06.7–.52	36.89N	140.80E	0	4.5,4.4		
BJI	IV	19 14 47 07.9	37.03N	140.94E	23	4.8b,4.7b		
JMA	IV	19 14 47 08.1	36.88N	140.81E	8–1	4.5,4.7b		
MOS	IV	19 14 47 10.3–1.1	36.97N	140.81E	34	4.7b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ24.00000°,λ-72.00000°. NP2:ϕ_s145.00000°,δ68.00000°,λ-98.00000°. M_o2.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=23.4.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=106.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.8km s-min=13.1km az=142.0.
JMA Event type fe.
MOS Error ellipse: s-maj=9.2km s-min=5.4km az=104.6.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 15 48 29.8–.10**	**38.29N**	**141.89E**	**66–1**	**3.6**		**¶602945441**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 16 10 32.0–.10**	**38.40N**	**141.89E**	**57–1**	**3.6**		**¶600592924**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(235) Kyushu

ISC	**IV**	**19 17 35 32.9–1.2**	**32.16N–.04**	**132.00E–.04**	**29–9**	**3.8b**	**32**	**0-84**
NIED	IV	19 17 35 00	32.10N	132.00E	32	3.8W		¶17201528
ISCJB	IV	19 17 35 32.8–.52	32.13N–.04	132.03E–.04	44–7	3.7b,3.2s		
JMA	IV	19 17 35 33.4–.10	32.17N	131.98E	30–1	3.7,3.2s		
IDC	IV	19 17 35 35.3–1.9	32.11N	131.98E	51–21	3.8,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ41.00000°,λ-64.00000°. NP2:ϕ_s313.00000°,δ54.00000°,λ-111.00000°. M_o5.83000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.9km az=141.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s155.00000°,δ70.00000°,λ-69.00000°. NP2: ϕ_s287.00000°,δ29.00000°,λ-134.00000°. Principal axes: T Plg22.0000°,Azm229.0000°; N Plg19.0000°,Azm327.0000°; P Plg60.0000°,Azm95.0000°
IDC Error ellipse: s-maj=22.3km s-min=13.7km az=38.0.

(216) Mariana Islands

ISC	**IV**	**19 17 46 11.1–.56**	**13.74N–.04**	**145.29E–.06**	**81–4**	**5.1b**	**622**	**0-152**
BJI	IV	19 17 46 04.6	13.28N	145.84E	85	5.0b,4.9b		¶16447766
MOS	IV	19 17 46 09.9–1.0	13.82N	145.10E	82	5.1b,4.9b		
IDC	IV	19 17 46 10.3–.68	13.77N	145.27E	72–5	4.8,4.6		
ISCJB	IV	19 17 46 10.1–.52	13.77N–.03	145.16E–.02	82–4	4.9b,4.6		
GCMT	IV	19 17 46 11.2–.40	13.48N	145.29E	102–4	4.9W,4.6		
NEIC	IV	19 17 46 11.2–.58	13.75N	145.20E	81–5	5.2b,4.6		
DJA	IV	19 17 46 23.0–1.1	13N–4.0	146E–8.0	259–17	5.6b,5.2		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c26; s65,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.29±.13 $M_{\theta\theta}$-1.31±.12; $M_{\phi\phi}$0.02±.15; $M_{r\theta}$0.65±.08; $M_{\theta\phi}$2.23±.12; $M_{\phi r}$1.19±.10; Best double couple: NP1:ϕ_s344.00000°,δ65.00000°,λ147.00000°. NP2:ϕ_s89.00000°,δ60.00000°,λ30.00000°. Principal axes: T 2.8450,Plg41.0000°,Azm305.0000°; N 0.1380,Plg49.0000°,Azm131.0000°; P -2.9810,Plg3.0000°,Azm37.0000° M_o2.91300×10^{16}

NEIC Event type fe. Felt [II] at Andersen AFB and Dededo. Also felt at Apra Harbor, Barrigada, Hagatna, Mangilao, Santa Rita, Tamuning and Yigo.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 19 02 08.6–.46**	**35.42N–.04**	**140.94E–.06**	**33**	**4.2b,3.3s**	**98**	**0-148**
NIED	IV	19 19 02 00	35.40N	140.90E	23	4.2W,3.3s		**¶16505443**
IDC	IV	19 19 02 04.1–.65	35.38N	140.76E	0	4.1,3.9		
NEIC	IV	19 19 02 06.1–2.7	35.43N	140.96E	12–17	4.5b,3.9		
ISCJB	IV	19 19 02 07.0–.29	35.39N–.03	140.94E–.05	33	4.3b,3.4s		
JMA	IV	19 19 02 07.0–.10	35.45N	140.92E	26–1	4.2,3.4s		
MOS	IV	19 19 02 08.2–2.1	35.52N	140.95E	36	4.4b,3.4s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ67.00000°,λ13.00000°. NP2:ϕ_s307.00000°,δ78.00000°,λ157.00000°. $M_0$2.54000×10^{15}

IDC Error ellipse: s-maj=21.9km s-min=15.2km az=99.0.

NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=102.0. Recorded [2 JMA] in Chiba.

ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=11.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

MOS Error ellipse: s-maj=11.0km s-min=6.3km az=99.1.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 19 29 22.9–.69**	**37.08N–.04**	**141.23E–.05**	**51–5**	**4.5b,3.3s**	**254**	**0-147**
NIED	IV	19 19 29 00	37.00N	141.20E	53	4.3W,3.3s		**¶16448723**
ISCJB	IV	19 19 29 21.2–.45	37.06N–.03	141.25E–.05	52–3	4.4b,3.2s		
JMA	IV	19 19 29 22.9–.10	37.05N	141.16E	47–1	4.4,3.2s		
MOS	IV	19 19 29 24.0–.86	37.43N	140.97E	55	4.7b,3.2s		
NEIC	IV	19 19 29 24.3–.55	37.10N	141.13E	62–4	4.6b,3.2s		
BJI	IV	19 19 29 24.0	36.95N	140.81E	63	4.8b,4.7b		
IDC	IV	19 19 29 24.7–2.0	37.09N	141.13E	64–16	4.3,4.2		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ17.00000°,λ88.00000°. NP2:ϕ_s19.00000°,δ73.00000°,λ91.00000°. $M_0$3.31000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=18.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

MOS Error ellipse: s-maj=8.3km s-min=5.3km az=104.6.

NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=123.0. Felt at Misawa and Yokosuka. Recorded [3 JMA] in Fukushima.

IDC Error ellipse: s-maj=15.0km s-min=10.9km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 20 20 54.0–1.8**	**36.54N–.05**	**141.09E–.07**	**12–11**	**3.7b**	**22**	**0-75**
NIED	IV	19 20 20 00	36.50N	141.00E	8	3.8W		**¶600593136**
IDC	IV	19 20 20 51.7–.89	36.49N	141.15E	0	3.8,3.6		
ISCJB	IV	19 20 20 54.2–1.1	36.53N–.04	141.11E–.08	27–7	3.6b,2.4s		
JMA	IV	19 20 20 55.3–.10	36.53N	141.03E	34–1	3.7,2.4s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ59.00000°,λ-30.00000°. NP2:ϕ_s317.00000°,δ65.00000°,λ-146.00000°. $M_0$6.07000×10^{14}

IDC Error ellipse: s-maj=26.8km s-min=17.6km az=104.0.

ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=6.1km az=14.6.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 20 58 31.0–1.7**	**37.09N–.05**	**141.42E–.09**	**32–10**	**3.5b**	**21**	**0-57**
NIED	IV	19 20 58 00	37.10N	141.30E	44	3.6W		**¶600593164**
IDC	IV	19 20 58 25.9–1.4	36.96N	141.69E	0	3.7,3.5		
ISCJB	IV	19 20 58 31.0–.99	37.08N–.04	141.39E–.10	47–10	3.5b,3.5		
JMA	IV	19 20 58 33.0–.10	37.08N	141.25E	42–1	3.7,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ42.00000°,λ-2.00000°. NP2:ϕ_s111.00000°,δ89.00000°,λ-132.00000°. $M_0$2.62000×10^{14}

IDC Error ellipse: s-maj=34.6km s-min=25.6km az=119.0.

ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=7.0km az=7.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**19 21 22 42.5**	**36.92N**	**140.71E**	**9–1**	**3.1**	
							¶600593178

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 21 37 59.3–1.4**	**36.38N–.04**	**141.00E–.05**	**16–8**	**4.3b**	**67**	**0-147**
IDC	IV	19 21 37 57.6–.84	36.39N	140.81E	0	4.0,4.0L		**¶16448728**
ISCJB	IV	19 21 37 58.5–.86	36.37N–.04	141.03E–.05	21–5	4.4b,3.1s		
JMA	IV	19 21 38 00.7–.10	36.45N	140.93E	33–1	4.0,3.1s		
NIED	IV	19 21 38 00	36.50N	140.90E	14	4.0W,3.1s		
NEIC	IV	19 21 38 01.5–2.6	36.32N	140.93E	29–19	4.6b,3.1s		

ISC Event type se.

IDC Error ellipse: s-maj=22.9km s-min=19.9km az=113.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.0km az=37.1.

JMA Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ62.00000°,λ-160.00000°. NP2:ϕ_s184.00000°,δ72.00000°,λ-29.00000°. $M_0$1.13000×10^{15}

NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.5km az=89.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 22 58 30.6–2.7**	**39.20N–.05**	**142.5E–.10**	**5–15**	**3.7b**	**17**	**1-59**
IDC	IV	19 22 58 28.7–2.7	39.21N	142.82E	0	4.3,4.3s		**¶17201560**
JMA	IV	19 22 58 33.9–.10	39.19N	142.42E	31–1	3.9,4.3s		

ISC Event type ke.

IDC Error ellipse: s-maj=68.9km s-min=30.4km az=71.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**19 23 07 01.9–.32**	**34.08N–.03**	**140.19E–.03**	**91–2**	**5.0b**	**1081**	**1-155**
MOS	IV	19 23 06 55.7–.87	34.07N	140.08E	44	5.3b,4.1s		**¶16448730**
BJI	IV	19 23 06 56.5	34.05N	140.53E	90	4.9b,4.9b		
NIED	IV	19 23 07 00	34.10N	140.20E	80	4.9W,4.9b		
ISCJB	IV	19 23 07 01.8–.22	34.04N–.02	140.08E–.02	97–1	4.9b,4.9b		
JMA	IV	19 23 07 02.2–.10	34.12N	140.25E	84–2	5.0,4.9b		
NEIC	IV	19 23 07 02.3–.09	34.01N	140.05E	90	5.0b,4.9b		
IDC	IV	19 23 07 02.4–.32	34.08N	140.14E	94–2	4.9,4.7		
GCMT	IV	19 23 07 03.5–.30	34.10N	140.29E	94–2	5.0W,4.7		

ISC Event type fe.

MOS Error ellipse: s-maj=6.6km s-min=3.8km az=100.1.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ31.00000°,λ66.00000°. NP2:ϕ_s221.00000°,δ62.00000°,λ104.00000°. $M_0$2.70000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.8km az=168.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=153.0. Felt at Numazu, Tokyo, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba, Kanagawa, Shizuoka and Tokyo.

IDC Error ellipse: s-maj=9.9km s-min=5.1km az=96.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c44; s81,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.23±.12 $M_{\theta\theta}$-0.06±.13; $M_{\phi\phi}$-2.17±.13; $M_{r\theta}$-1.18±.08; $M_{\theta\phi}$-1.85±.11; $M_{\phi r}$-1.49±.08; Best double couple: NP1:ϕ_s217.00000°,δ63.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ28.00000°,λ74.00000°. Principal axes: T 2.8510,Plg71.0000°,Azm146.0000°; N 0.9790,Plg7.0000°,Azm33.0000°; P -3.8300,Plg17.0000°,Azm301.0000° $M_0$3.34000×10^{16}

(162) South Island

WEL	**IV**	**19 23 13 05.8–.14**	**43.56S**	**172.81E**	**8–0**	**3.8L**		
								¶16448797

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(456) Montana

ISC	**IV**	**20 00 15 13.4–.85**	**45.88N–.04**	**106.90W–.04**	**0**		**56**	**1-87**
ISCJB	IV	20 00 15 12.6–.46	45.80N–.03	106.90W–.04	0	3.3b		**¶17201565**
NEIC	IV	20 00 15 13.9–.59	45.78N	106.90W	0	2.7L		
IDC	IV	20 00 15 13.2–1.0	45.74N	107.16W	0	3.4b,3.3		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=4.5km s-min=4.3km az=177.4.

NEIC Event type fm. Error ellipse: s-maj=8.1km s-min=6.9km az=127.0. 23 km [15 miles] WSW of Colstrip. Suspected Mining explosion.

IDC Error ellipse: s-maj=27.7km s-min=8.7km az=122.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**20 00 39 23.1–1.1**	**36.96N–.03**	**140.55E–.04**	**6–7**	**3.6b**	**35**	**0-147**
ISCJB	IV	20 00 39 23.2–.74	36.93N–.03	140.73E–.05	15–4	3.6b		**¶17201566**
JMA	IV	20 00 39 23.6	36.94N	140.65E	5–1	3.9		
IDC	IV	20 00 39 29.4–3.9	36.95N	140.46E	50–36	3.6,3.6		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=24.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s224.00000°,δ49.00000°,λ-105.00000°. NP2:ϕ_s67.00000°,δ43.00000°,λ-73.00000°. Principal axes: T Plg3.0000°,Azm325.0000°; N Plg12.0000°,Azm234.0000°; P Plg78.0000°,Azm69.0000°

IDC Error ellipse: s-maj=26.1km s-min=18.3km az=90.0.

(227) Eastern Honshu

ISC	**IV**	**20 00 50 50.1–.85**	**37.06N–.02**	**140.59E–.03**	**10–5**	**4.8b,4.1s**	**554**	**0-161**
NIED	IV	20 00 50 00	37.00N	140.70E	5	4.5W,4.1s		**¶16448734**
IDC	IV	20 00 50 48.6–.37	37.06N	140.55E	0	4.8,4.7		
JMA	IV	20 00 50 49.9	37.03N	140.68E	7–1	4.8,4.7		
ISCJB	IV	20 00 50 50.8–.48	37.12N–.02	140.53E–.03	19–3	4.7b,4.0s		
BJI	IV	20 00 50 51.0	37.20N	140.60E	10	4.9b,4.6b		
NEIC	IV	20 00 50 54.6–.45	37.05N	140.46E	37–4	4.8b,4.6b		
MOS	IV	20 00 50 56.2–.83	37.49N	140.49E	49	5.0b,4.6b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ39.00000°,λ-84.00000°. NP2:ϕ_s229.00000°,δ51.00000°,λ-95.00000°. $M_0$6.36000×10^{15}

IDC Error ellipse: s-maj=13.8km s-min=9.6km az=98.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ52.00000°,λ-75.00000°. NP2:ϕ_s32.00000°,δ40.00000°,λ-108.00000°. Principal axes: T Plg6.0000°,Azm315.0000°; N Plg12.0000°,Azm46.0000°; P Plg77.0000°,Azm199.0000°

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=144.8.

NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=148.0. Recorded [3 JMA] in Fukushima and Ibaraki.

MOS Error ellipse: s-maj=6.9km s-min=4.4km az=99.8.

(228) Near east coast of eastern Honshu

ISC	**IV**	**20 03 09 13.0–1.0**	**38.41N–.05**	**142.20E–.07**	**24–6**	**3.6b,3.3s**	**32**	**1-91**
NIED	IV	20 03 09 00	38.40N	142.20E	32	3.9W,3.3s		**¶17201580**
ISCJB	IV	20 03 09 11.9–1.4	38.41N–.04	142.21E–.08	26–8	3.5b,3.4s		
JMA	IV	20 03 09 12.6–.10	38.44N	142.19E	27–1	3.7,3.4s		
IDC	IV	20 03 09 13.5–1.4	38.38N	142.21E	26–5	3.7,3.6L		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ53.00000°,λ-136.00000°. NP2:ϕ_s202.00000°,δ56.00000°,λ-47.00000°. $M_0$8.14000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.1km az=24.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=31.3km s-min=19.2km az=147.0.

(173) Tonga Islands

ISC	**IV**	**20 03 09 11.4–.28**	**20.91S–.06**	**175.41W–.06**	**89**	**4.8b**	**465**	**5-172**
MOS	IV	20 03 09 06.1–.89	20.67S	175.62W	49	5.0b		**¶16448737**
IDC	IV	20 03 09 10.2–1.5	20.72S	175.55W	75–12	4.8,4.7		
ISCJB	IV	20 03 09 10.4–.13	20.87S–.03	175.60W–.03	89	4.8b,4.7		
BJI	IV	20 03 09 12.2	20.62S	175.16W	107	5.2b,5.0b		
GCMT	IV	20 03 09 13.4–.20	20.88S	175.09W	104–2	5.2W,5.0b		
NEIC	IV	20 03 09 13.4–.96	20.84S	175.62W	105–8	4.8b,5.0b		

ISC Event type fe.

MOS Error ellipse: s-maj=9.8km s-min=7.1km az=55.0.

IDC Error ellipse: s-maj=13.9km s-min=10.3km az=149.0.

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.1km az=43.6.

GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c72; s93,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.14±.15 $M_{\theta\theta}$0.48±.19; $M_{\phi\phi}$-0.34±.18; $M_{r\theta}$-1.21±.12; $M_{\theta\phi}$5.18±.15; $M_{\phi r}$-3.94±.09; Best double couple: NP1:ϕ_s183.00000°,δ87.00000°,λ143.00000°. NP2:ϕ_s275.00000°,δ53.00000°,λ3.00000°. Principal axes: T 7.1070,Plg27.0000°,Azm132.0000°; N -1.0770,Plg53.0000°,Azm360.0000°; P -6.0290,Plg23.0000°,Azm235.0000° $M_0$6.56800×10^{16}

NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=150.0. Felt at Nuku'alofa and Vaini.

(135) Near coast of central Chile

ISC	**IV**	**20 03 24 18.2–1.3**	**38.18S–.04**	**73.4W–.10**	**19–4**	**3.5b**	**17**	**1-87**
IDC	IV	20 03 24 15.3–2.3	38.49S	73.62W	0	3.8,3.6L		**¶16530694**
ISCJB	IV	20 03 24 16.7–1.1	38.17S–.03	73.4W–.20	16–10	3.7s,3.5b		
NEIC	IV	20 03 24 17.0	38.17S	73.40W	29	4.2b,4.0L		
GUC	IV	20 03 24 17.7–.56	38.17S	73.40W	29–5	4.0L,4.0L		

ISC Event type fe.

IDC Error ellipse: s-maj=69.6km s-min=18.9km az=53.0.

ISCJB Event type fe. Error ellipse: s-maj=23.5km s-min=5.0km az=5.7.

NEIC Event type fe. Felt [IV] at Angol, [III] at Lumaco and [II] at Curacautin, Puren, Puerto Saavedra, Tirua and Traiguen. After GUC.

GUC Error ellipse: s-maj=1.4km s-min=10.3km az=-1.0.

(135) Near coast of central Chile

ISC	**IV**	**20 03 40 39.9–.44**	**38.20S–.04**	**73.85W–.07**	**18**	**4.5b,3.9s**	**82**	**1-175**
GUC	IV	20 03 40 32.2–.72	38.47S	74.49W	14–12	4.9L,3.9s		**¶16450782**
IDC	IV	20 03 40 37.4–.79	38.19S	73.87W	0	4.5,4.5L		
ISCJB	IV	20 03 40 38.7–.33	38.20S–.03	73.77W–.08	18	4.4b,3.8s		
NEIC	IV	20 03 40 42.5–2.3	38.17S	73.72W	34–15	4.9L,4.6b		
BJI	IV	20 03 40 42.8	38.20S	73.70W	34	4.9L,4.6b		

ISC Event type fe.

GUC Error ellipse: s-maj=4.7km s-min=13.2km az=-1.0.

IDC Error ellipse: s-maj=27.5km s-min=15.3km az=66.0.

ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.5km az=178.1.

NEIC Event type fe. Error ellipse: s-maj=13.0km s-min=6.5km az=83.0. Felt [IV] at Carahue and Puerto Saavedra, [III] at Angol and Tirua and [II] at Padre Las Casas. Also felt at Temuco.

(227) Eastern Honshu

ISC	**IV**	**20 04 22 36.8–1.1**	**37.05N–.04**	**140.81E–.07**	**11–6**		**19**	**0-57**
NIED	IV	20 04 22 00	37.00N	140.80E	5	3.5W		**¶600593435**
IDC	IV	20 04 22 34.7–2.3	36.89N	140.97E	0	3.8,3.6b		
ISCJB	IV	20 04 22 36.6–.98	37.04N–.04	140.85E–.07	9–4	3.5b,3.6b		
JMA	IV	20 04 22 37.2	37.05N	140.80E	9–1	3.8,3.6b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ18.00000°,λ-38.00000°. NP2:ϕ_s213.00000°,δ79.00000°,λ-105.00000°. $M_0$1.99000×10^{14}

IDC Error ellipse: s-maj=41.7km s-min=27.4km az=54.0.

ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.5km az=15.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**20 06 05 17.3–1.9**	**39.34N–.06**	**142.44E–.09**	**28–11**	**3.9b**	**37**	**1-145**
ISCJB	IV	20 06 05 16.0–1.3	39.15N–.05	142.39E–.08	33–7	3.9b		**¶17201590**
JMA	IV	20 06 05 17.8–.20	39.41N	142.44E	34–2	4.4		
IDC	IV	20 06 05 17.5–2.9	39.03N	142.52E	38–25	3.9,3.8		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=8.3km az=10.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=18.5km s-min=15.5km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**20 06 18 01.5–1.1**	**38.86N–.06**	**142.19E–.09**	**35**	**3.9b**	**23**	**0-70**
IDC	IV	20 06 17 53.9–2.0	39.02N	142.83E	0	3.9,3.8		**¶17201596**
ISCJB	IV	20 06 18 00.0–.87	38.88N–.05	142.30E–.08	35	3.8b,3.8		
NIED	IV	20 06 18 00	38.90N	142.00E	47	3.5W,3.8		
JMA	IV	20 06 18 03.4–.10	38.88N	142.00E	49–1	3.5,3.8		

ISC Event type ke.

IDC Error ellipse: s-maj=56.6km s-min=27.8km az=82.0.

ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.0km az=20.7.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ24.00000°,λ87.00000°. NP2:ϕ_s28.00000°,δ66.00000°,λ91.00000°. $M_0$2.12000×10^{14}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**20 07 09 29.5**	**38.35N**	**141.74E**	**57–1**	**3.5**	
							¶600593548

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**20 07 27 21.7–.10**	**38.35N**	**142.05E**	**34–1**	**3.7**	
							¶600593559

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**20 07 52 15.9–.59**	**36.24N–.04**	**141.77E–.05**	**26–4**	**4.5b,4.0s**	**206**	**1-147**
NIED	IV	20 07 52 00	36.20N	141.90E	11	4.6W,4.0s		**¶600593580**

JMA IV 20 07 52 14.1–.20 36.25N 141.85E 33 4.4,4.0s
ISCJB IV 20 07 52 15.1–.81 36.29N–.03 141.74E–.04 28–5 4.5b,4.0s
BJI IV 20 07 52 16.6 36.30N 141.51E 36 4.8b,4.8b
IDC IV 20 07 52 16.6–3.4 36.16N 141.74E 33–25 4.3,4.2
NEIC IV 20 07 52 18.1–.73 36.28N 141.68E 38–6 4.7b,4.2
MOS IV 20 07 52 19.2–.82 36.66N 141.57E 46 4.8b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ17.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ73.00000°,λ87.00000°. $M_0$7.59000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.4km az=39.1.
IDC Error ellipse: s-maj=13.5km s-min=11.1km az=100.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.4km az=146.0.
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=105.8.

(162) South Island

WEL IV 20 08 11 02.7–.10 43.58S 172.75E 8–0 3.7L ¶16448800

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC IV 20 08 30 25.5–.82 36.79N–.04 141.11E–.07 48–6 4.1b 104 0-147
NIED IV 20 08 30 00 36.80N 141.10E 44 4.0W **¶16448750**
MOS IV 20 08 30 23.5–1.1 36.85N 141.20E 47 4.5b
NEIC IV 20 08 30 24.3–.38 36.81N 141.19E 35 4.4b
ISCJB IV 20 08 30 24.0–.51 36.79N–.03 141.16E–.05 52–3 4.2b,3.8s
JMA IV 20 08 30 25.2–.10 36.78N 141.10E 46–1 4.1,3.8s
BJI IV 20 08 30 25.1 37.00N 140.90E 17 4.9b,4.5b
IDC IV 20 08 30 26.1–1.8 36.76N 141.08E 56–17 4.3L,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ24.00000°,λ-90.00000°. NP2:ϕ_s91.00000°,δ66.00000°,λ-90.00000°. $M_0$1.24000×10^{15}
MOS Error ellipse: s-maj=9.5km s-min=6.8km az=92.9.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.6km az=137.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=29.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.1km s-min=10.2km az=76.0.

(228) Near east coast of eastern Honshu

ISC IV 20 09 06 13.6–1.3 36.96N–.04 141.38E–.07 25–9 3.5b 26 0-147
NIED IV 20 09 06 00 37.00N 141.20E 59 3.8W **¶17201606**
IDC IV 20 09 06 12.1–1.2 36.60N 141.33E 0 3.7,3.4
ISCJB IV 20 09 06 14.0–.85 36.94N–.04 141.37E–.08 41–11 3.4b,3.4
JMA IV 20 09 06 15.8–.10 36.96N 141.22E 42–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ39.00000°,λ59.00000°. NP2:ϕ_s270.00000°,δ57.00000°,λ112.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=27.5km s-min=26.9km az=167.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.6km az=19.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC IV 20 09 27 19.7–.99 39.60N–.03 140.66E–.04 11–7 4.1b 25 0-80
NIED IV 20 09 27 00 39.60N 140.70E 11 3.4W **¶16450222**
ISCJB IV 20 09 27 19.1–.59 39.62N–.03 140.66E–.05 19–6 3.9b
JMA IV 20 09 27 19.2 39.62N 140.62E 4–1 3.8
IDC IV 20 09 27 22.8–5.8 39.63N 140.42E 33–46 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ22.00000°,λ90.00000°. NP2:ϕ_s248.00000°,δ68.00000°,λ90.00000°. $M_0$1.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.1km az=9.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s234.00000°,δ86.00000°,λ86.00000°. NP2:ϕ_s102.00000°,δ6.00000°,λ138.00000°. Principal axes: T Plg49.0000°,Azm139.0000°; N Plg4.0000°,Azm234.0000°; P Plg41.0000° ,Azm328.0000°
IDC Error ellipse: s-maj=31.9km s-min=17.4km az=99.0.

(228) Near east coast of eastern Honshu

JMA IV 20 10 01 22.0–.10 38.17N 141.76E 55–1 3.6 ¶600593660

JMA Event type fe.

(705) Off west coast of northern Sumatera

ISC IV 20 11 31 47.6–.44 4.70N–.05 94.44E–.05 42–3 4.5b,4.0s 196 2-159
BJI IV 20 11 31 43.3 4.41N 94.54E 38 4.6b,4.6b **¶16450790**
ISCJB IV 20 11 31 46.8–.78 4.69N–.04 94.54E–.04 51–7 4.5b,3.9s
MOS IV 20 11 31 46.9–.96 4.73N 94.59E 53 4.8b,3.9s
IDC IV 20 11 31 48.4–.62 4.77N 94.55E 47–5 4.3,4.2
NEIC IV 20 11 31 48.0–.56 4.73N 94.54E 46–5 4.7b,4.2
KLM IV 20 11 31 49.7 4.80N 94.61E 10 5.7s,4.6b
DJA IV 20 11 31 50.8–.60 5N–3.0 95E–4.0 47–8 4.9b,4.6
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.

(134) Off coast of central Chile

ISC IV 20 12 04 44.5–1.2 33.99S–.04 73.17W–.06 31–7 4.7b 172 1-177
ISCJB IV 20 12 04 43.4–1.3 34.02S–.03 73.19W–.03 31–9 4.7b,3.5s **¶16450791**
GUC IV 20 12 04 43.1–.30 33.86S 73.08W 29–1 4.1L,3.5s
BJI IV 20 12 04 43.2 34.00S 73.20W 17 5.3s,5.1b
NEIC IV 20 12 04 44.7–1.4 33.99S 73.14W 28–9 4.7b,4.1L
IDC IV 20 12 04 45.1–.66 34.04S 73.33W 32–4 4.6L,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=166.5.
GUC Error ellipse: s-maj=1.5km s-min=2.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=75.0. Felt at Vina del Mar.
IDC Error ellipse: s-maj=24.1km s-min=18.1km az=72.0.

(228) Near east coast of eastern Honshu

ISC IV 20 13 24 13.6–1.9 36.44N–.05 141.20E–.08 30–12 3.5b 27 1-60
NIED IV 20 13 24 00 36.40N 141.10E 32 3.7W **¶17201618**
ISCJB IV 20 13 24 13.3–.86 36.43N–.04 141.20E–.07 43–8 3.6b
JMA IV 20 13 24 14.4–.10 36.44N 141.08E 45–2 3.8
IDC IV 20 13 24 14.7–2.8 36.41N 141.28E 41–24 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ57.00000°,λ159.00000°. NP2:ϕ_s27.00000°,δ73.00000°,λ35.00000°. $M_0$3.71000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.3km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.1km s-min=11.5km az=67.0.

(2) Southern Alaska

ISC IV 20 13 36 53.0–1.3 60.75N–.03 147.16W–.02 10–9 3.7b 107 1-76
ISCJB IV 20 13 36 54.9–.49 60.78N–.03 147.15W–.04 29–4 3.7b **¶16536020**
IDC IV 20 13 36 55.3–4.2 60.58N 147.25W 39–25 3.9L,3.7
NEIC IV 20 13 36 55.8 60.80N 147.12W 10 3.7W,3.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=6.0.
IDC Error ellipse: s-maj=52.2km s-min=15.8km az=46.0.
NEIC Event type fe. Felt at Valdez. After AEIC. Moment Tensor Solution. s48 Moment tensor: Scale 10^{14}Nm; M_{rr}-1.75 $M_{\theta\theta}$-1.62 $M_{\phi\phi}$3.38 $M_{r\theta}$-1.58 $M_{\theta\phi}$1.56 $M_{\phi r}$0.75 Best double couple: NP1:ϕ_s160.00000°,δ64.00000°,λ-145.00000°. NP2:ϕ_s53.00000°,δ59.00000°,λ-31.00000°. Principal axes: T 3.8400,Plg3.0000°,Azm285.0000°; N -0.1900,Plg47.0000°,Azm192.0000° ; P -3.6500,Plg42.0000°,Azm18.0000° $M_0$3.80000×10^{14}

(227) Eastern Honshu

ISC IV 20 15 00 23.4–1.3 37.02N–.04 140.91E–.06 9–7 3.6b 31 0-74
NIED IV 20 15 00 00 37.00N 140.80E 5 3.6W **¶16505454**
ISCJB IV 20 15 00 21.9–.88 37.02N–.03 141.00E–.06 11–4 3.7b
JMA IV 20 15 00 23.9 37.04N 140.84E 9–1 3.8
IDC IV 20 15 00 27.4–1.7 36.98N 140.96E 43–16 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ39.00000°,λ-121.00000°. NP2:ϕ_s55.00000°,δ57.00000°,λ-67.00000°. $M_0$3.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.7km az=18.2.
JMA Event type fe.
IDC Error ellipse: s-maj=14.9km s-min=10.5km az=92.0.

(233) Near south coast of western Honshu

JMA IV 20 15 29 07.5 34.42N 134.83E 16–1 3.5 ¶600594038

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s223.00000°,δ80.00000°,λ-169.00000°. NP2:ϕ_s131.00000°,δ79.00000°,λ-10.00000°. Principal axes: T Plg1.0000°,Azm357.0000°; N Plg75.0000°,Azm263.0000°; P Plg15.0000° ,Azm87.0000°

(228) Near east coast of eastern Honshu

ISC IV 20 15 29 44.9–.77 36.65N–.04 140.97E–.05 49–6 4.3b,3.2s 106 0-147
NIED IV 20 15 29 00 36.70N 141.00E 50 4.2W,3.2s **¶602557843**
MOS IV 20 15 29 43.5–1.0 36.66N 140.97E 52 4.6b,3.2s
ISCJB IV 20 15 29 43.9–.45 36.63N–.03 140.96E–.04 56–3 4.2b,3.2s
NEIC IV 20 15 29 45.4–.64 36.60N 140.90E 54–6 4.5b,3.2s
JMA IV 20 15 29 45.2–.10 36.64N 140.90E 50–1 4.2,3.2s
IDC IV 20 15 29 47.3–1.5 36.58N 140.78E 70–14 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ9.00000°,λ-140.00000°. NP2:ϕ_s205.00000°,δ84.00000°,λ-83.00000°. $M_0$2.27000×10^{15}
MOS Error ellipse: s-maj=8.9km s-min=6.2km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=31.3.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.8km az=110.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
IDC Error ellipse: s-maj=12.9km s-min=8.7km az=71.0.

(162) South Island

WEL IV 20 15 49 38.5–.12 43.57S 172.68E 6–0 2.8L ¶601003975

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC IV 20 16 33 19.6–.55 38.16N–.04 141.84E–.04 50–4 4.7b,3.7s 408 0-152
NIED IV 20 16 33 00 38.10N 141.80E 56 4.6W,3.7s **¶16449067**
BJI IV 20 16 33 18.5 38.22N 141.88E 62 4.8b,4.6b
MOS IV 20 16 33 19.3–.94 38.42N 141.70E 47 5.0b,4.6b
IDC IV 20 16 33 21.0–1.7 38.19N 141.67E 60–14 4.5,4.4
JMA IV 20 16 33 20.6–.10 38.15N 141.74E 55–1 4.5,4.4
ISCJB IV 20 16 33 20.3–.32 38.16N–.02 141.69E–.03 65–2 4.5b,4.4
NEIC IV 20 16 33 21.8–.43 38.21N 141.65E 64–4 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ39.00000°,λ97.00000°. NP2:ϕ_s195.00000°,δ52.00000°,λ84.00000°. $M_0$7.91000×10^{15}
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=92.7.
IDC Error ellipse: s-maj=13.8km s-min=9.3km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=142.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=143.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC IV 20 16 57 11.0–2.0 38.24N–.04 142.11E–.08 29–13 3.4b 31 1-76
NIED IV 20 16 57 00 38.30N 142.00E 56 3.8W **¶17201629**
IDC IV 20 16 57 07.0–.91 38.08N 142.43E 0 3.6,3.6L
ISCJB IV 20 16 57 10.7–.98 38.23N–.04 142.11E–.09 38–11 3.3b,3.6L
JMA IV 20 16 57 12.0–.10 38.28N 142.01E 44–1 3.9,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ52.00000°,λ-144.00000°. NP2:ϕ_s127.00000°,δ62.00000°,λ-45.00000°. $M_0$4.74000×10^{14}
IDC Error ellipse: s-maj=27.9km s-min=18.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.5km az=20.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(49) Gulf of California

ISC IV 20 18 21 44.9–.40 27.52N–.03 111.42W–.02 10 4.6b,4.3s 162 1-126
ECX IV 20 18 21 40.2–1.0 27.56N 111.31W 13–16 4.5,4.3s **¶16485031**
MEX IV 20 18 21 43.4–.89 27.50N 111.37W 16–13 4.2,4.3s
ISCJB IV 20 18 21 44.3–.29 27.57N–.03 111.31W–.03 10 4.5b,4.3s
IDC IV 20 18 21 44.5–.70 27.68N 111.40W 0 4.3,4.3
NEIC IV 20 18 21 44.4–.49 27.42N 111.37W 10 4.6b,4.2
GCMT IV 20 18 21 45.5–.30 27.68N 111.46W 20–1 5.0W,4.2
ISC Event type fe.
ECX Error ellipse: s-maj=12.5km s-min=13.0km az=-1.0.
MEX Error ellipse: s-maj=7.8km s-min=5.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=40.1.
IDC Error ellipse: s-maj=14.9km s-min=10.9km az=51.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=201.0. Felt [II] at Guaymas, Sonora. Also felt at Empalme.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s91,c140; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.30±.13 $M_{\theta\theta}$-3.53±.12; $M_{\phi\phi}$3.22±.12; $M_{r\theta}$-1.37±.25; $M_{\theta\phi}$-1.40±.11; $M_{\phi r}$0.23±.22; Best double couple: NP1:ϕ_s124.00000°,δ85.00000° ,λ-162.00000°. NP2:ϕ_s33.00000°,δ72.00000°,λ-5.00000°. Principal axes: T 3.5800,Plg9.0000°,Azm257.0000°; N 0.5990,Plg71.0000°,Azm138.0000° ; P -4.1870,Plg16.0000°,Azm350.0000° $M_0$3.88300×10^{16}

(230) Near south coast of eastern Honshu

ISC IV 20 18 25 07.9–.90 35.92N–.05 139.90E–.07 81–7 4.2b 35 1-83
IDC IV 20 18 25 07.0–1.6 35.95N 140.09E 75–13 4.0,3.8 **¶600594229**
ISCJB IV 20 18 25 07.2–.58 35.90N–.04 139.85E–.08 89–4 4.0b,3.8
NEIC IV 20 18 25 07.3–.96 35.92N 140.00E 76–7 4.6b,3.8
JMA IV 20 18 25 09.0–.10 35.90N 139.82E 77–1 3.4,3.8
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=9.0km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.6km az=168.5.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s357.00000°,δ70.00000°,λ87.00000°. NP2: ϕ_s185.00000°,δ20.00000°,λ98.00000°. Principal axes: T Plg65.0000°,Azm262.0000° ; N Plg3.0000°,Azm358.0000°; P Plg25.0000°,Azm89.0000°

(227) Eastern Honshu

ISC IV 20 18 41 05.3–1.1 37.08N–.03 140.61E–.04 6–7 3.9b 31 0-147
NIED IV 20 18 41 00 37.10N 140.70E 5 3.8W **¶16450226**
ISCJB IV 20 18 41 05.2–.54 37.06N–.03 140.77E–.05 15–4 3.9b
JMA IV 20 18 41 05.7 37.07N 140.68E 8–1 3.9
IDC IV 20 18 41 12.3–3.4 37.01N 140.45E 59–30 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ38.00000°,λ-104.00000°. NP2:ϕ_s177.00000°,δ54.00000°,λ-80.00000°. $M_0$5.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.9km az=34.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s208.00000°,δ57.00000°,λ-100.00000°. NP2:ϕ_s45.00000°,δ35.00000°,λ-76.00000°. Principal axes: T Plg11.0000°,Azm305.0000°; N Plg8.0000°,Azm213.0000°; P Plg76.0000° ,Azm89.0000°
IDC Error ellipse: s-maj=23.5km s-min=16.3km az=89.0.

(228) Near east coast of eastern Honshu

ISC IV 20 19 04 23.8–.98 36.89N–.03 140.71E–.05 12–6 3.7b 34 0-74
NIED IV 20 19 04 00 36.90N 140.70E 5 3.8W **¶16450227**
IDC IV 20 19 04 21.7–.81 36.79N 140.75E 0 3.8,3.7
ISCJB IV 20 19 04 22.8–.67 36.87N–.03 140.82E–.06 20–4 3.7b,3.7
JMA IV 20 19 04 23.8 36.89N 140.71E 10–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ22.00000°,λ-54.00000°. NP2:ϕ_s171.00000°,δ73.00000°,λ-103.00000°. $M_0$5.65000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=14.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.2km az=23.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s186.00000°,δ46.00000°,λ-95.00000°. NP2:ϕ_s14.00000°,δ44.00000°,λ-84.00000°. Principal axes: T Plg1.0000°,Azm280.0000°; N Plg4.0000°,Azm190.0000°; P Plg86.0000° ,Azm24.0000°

(228) Near east coast of eastern Honshu

JMA IV 20 19 22 00.4–.10 36.38N 141.01E 39–1 3.6
NIED IV 20 19 22 00 36.40N 141.00E 29 3.6W **¶600594273**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ28.00000°,λ-178.00000°. NP2:ϕ_s225.00000°,δ89.00000°,λ-62.00000°. $M_0$2.42000×10^{14}

(227) Eastern Honshu

ISC IV 20 19 25 02.5–1.1 39.62N–.03 140.44E–.04 8–8 3.6b 21 0-63

NIED IV 20 19 25 00 39.60N 140.40E 5 3.6W **¶16450228**
IDC IV 20 19 25 01.2–.97 39.54N 140.52E 0 3.6,3.4
ISCJB IV 20 19 25 02.0–.57 39.64N–.03 140.40E–.05 17–6 3.5b,3.4
JMA IV 20 19 25 02.3 39.63N 140.40E 4–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ60.00000°,λ169.00000°. NP2:ϕ_s87.00000°,δ80.00000°,λ31.00000°. $M_0$2.87000×10^{14}
IDC Error ellipse: s-maj=34.9km s-min=18.3km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.2km az=26.4.
JMA Event type fe.

(460) Wyoming

ISC IV 20 19 39 04.4–.83 43.58N–.05 105.19W–.05 0 35 1-68
ISCJB IV 20 19 39 02.9–.39 43.64N–.04 105.11W–.05 0 4.2b,3.5s **¶17201638**
IDC IV 20 19 39 04.0–1.7 43.64N 105.39W 0 3.9b,3.8
NEIC IV 20 19 39 04.7–.42 43.61N 105.11W 0 3.4L,3.8
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.9km s-min=4.8km az=37.5.
IDC Error ellipse: s-maj=49.1km s-min=7.7km az=150.0.
NEIC Event type fm. Error ellipse: s-maj=6.7km s-min=5.3km az=133.0. 78 km [49 miles] WSW of Newcastle. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC IV 20 20 32 28.2–.94 36.15N–.04 140.08E–.05 53–7 3.4b 28 0-60
NIED IV 20 20 32 00 36.20N 140.10E 56 3.6W **¶17201641**
IDC IV 20 20 32 20.2–1.8 36.33N 140.44E 0 3.9L,3.6
ISCJB IV 20 20 32 27.1–.52 36.14N–.03 140.10E–.06 59–5 3.3b,3.6
JMA IV 20 20 32 28.4–.10 36.18N 140.05E 51–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ27.00000°,λ108.00000°. NP2:ϕ_s43.00000°,δ64.00000°,λ81.00000°. $M_0$2.74000×10^{14}
IDC Error ellipse: s-maj=43.5km s-min=19.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.4km az=18.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s39.00000°,δ73.00000°,λ83.00000°. NP2: ϕ_s241.00000°,δ18.00000°,λ111.00000°. Principal axes: T Plg61.0000°,Azm299.0000° ; N Plg6.0000°,Azm41.0000°; P Plg28.0000°,Azm134.0000°

(456) Montana

ISC IV 20 20 49 24.2–.95 45.90N–.05 106.21W–.06 0 17 1-12
ISCJB IV 20 20 49 23.0–.71 45.93N–.06 106.37W–.10 0 **¶17201642**
IDC IV 20 20 49 24.0–1.4 45.91N 106.59W 0 4.0L,3.8
NEIC IV 20 20 49 24.6–.71 45.92N 106.36W 0 2.8L,3.8
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=10.9km s-min=7.4km az=35.3.
IDC Error ellipse: s-maj=49.5km s-min=11.3km az=133.0.
NEIC Event type fm. Error ellipse: s-maj=10.9km s-min=8.0km az=128.0. 21 km [13 miles] E of Colstrip. Suspected Mining explosion.

(227) Eastern Honshu

ISC IV 20 20 51 55.6–.90 37.06N–.03 140.69E–.03 8–5 4.2b,3.5s 68 0-147
NIED IV 20 20 51 00 37.10N 140.70E 5 4.0W,3.5s **¶16450229**
IDC IV 20 20 51 54.6–.46 37.06N 140.63E 0 4.3,4.2
ISCJB IV 20 20 51 55.0–.45 37.06N–.02 140.77E–.04 17–3 4.1b,3.6s
JMA IV 20 20 51 55.5 37.07N 140.70E 8–1 4.3,3.6s
NEIC IV 20 20 51 58.5–1.9 37.04N 140.63E 27–13 4.4b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s225.00000°,δ65.00000°,λ-85.00000°. $M_0$1.29000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=10.5km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.7km az=21.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s249.00000°,δ72.00000°,λ-59.00000°. NP2:ϕ_s6.00000°,δ36.00000°,λ-149.00000°. Principal axes: T Plg21.0000°,Azm316.0000°; N Plg30.0000°,Azm59.0000°; P Plg52.0000° ,Azm196.0000°
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=4.9km az=125.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC IV 20 20 57 45.5–.97 37.08N–.04 140.66E–.05 8–10 21 0-61
ISCJB IV 20 20 57 45.3–1.1 37.05N–.03 140.81E–.07 14–9 3.9b **¶17201643**
JMA IV 20 20 57 45.9 37.06N 140.70E 7–1 3.2
IDC IV 20 20 57 50.0–2.3 36.27N 140.48E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.7km az=8.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ77.00000°,λ-87.00000°. NP2:ϕ_s25.00000°,δ13.00000°,λ-102.00000°. Principal axes: T Plg32.0000°,Azm305.0000°; N Plg3.0000°,Azm37.0000°; P Plg58.0000° ,Azm131.0000°
IDC Error ellipse: s-maj=41.5km s-min=25.3km az=46.0.

(162) South Island

WEL IV 20 21 17 50.6–.09 43.15S 170.80E 6–1 3.6L
¶16450378
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 4.

(238) Ryukyu Islands

ISC IV 20 22 10 19.8–.78 28.19N–.04 129.14E–.05 31–5 3.5b 40 0-76
NIED IV 20 22 10 00 28.20N 129.10E 44 3.9W **¶17201645**
ISCJB IV 20 22 10 19.5–.32 28.18N–.04 129.15E–.06 40–4 3.5b,2.7s
JMA IV 20 22 10 19.9–.10 28.13N 129.22E 31–1 3.8,2.7s
IDC IV 20 22 10 23.9–3.2 28.08N 128.86E 66–29 3.8L,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ20.00000°,λ-77.00000°. NP2:ϕ_s301.00000°,δ71.00000°,λ-95.00000°. $M_0$8.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.5km az=32.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=29.1km s-min=16.8km az=70.0.

(105) Near coast of Ecuador

ISC IV 20 22 27 58.8–.38 3.91S–.05 79.55W–.07 95 4.7b 383 1-165
IGQ IV 20 22 27 54 4.08S 79.69W 111–12 4.1b **¶16451844**
ISCJB IV 20 22 27 56.9–.26 3.96S–.03 79.61W–.03 95 4.6b
NEIC IV 20 22 27 60.0–.56 3.88S 79.47W 103–5 4.7b,4.5
IDC IV 20 22 27 59.4–2.0 3.84S 79.47W 96–19 4.5,4.3
BJI IV 20 22 27 59.5 3.90S 79.50W 97 5.0b,4.3
ISC Event type fe.
IGQ Error ellipse: s-maj=6.2km s-min=3.4km az=86.7.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=36.7.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=61.0. Felt [II] at Cuenca and Guayaquil. Also felt at Catamayo, Celica, Loja, Macara, Pinas and Zaruma. Felt [II] at Ayabaca, Peru. Also felt at Mancora and Pucara.
IDC Error ellipse: s-maj=20.9km s-min=11.8km az=61.0.

(250) Mindoro

ISC IV 20 23 24 20.2–1.3 13.49N–.05 120.73E–.05 8–9 3.6b 22 0-50
MAN IV 20 23 24 18 13.51N 120.65E 2 4.4b,3.3L **¶17201649**
IDC IV 20 23 24 18.8–1.1 13.54N 120.89E 0 3.9,3.6b
ISCJB IV 20 23 24 19.4–1.0 13.50N–.04 120.69E–.04 10–7 3.6b,3.5s
ISC Event type fe.
MAN Event type fe. INTENSITY II - PUERTO GALERA ORIENTAL MINDORO.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 20 23 34 02.2–3.4 38.39N–.06 142.18E–.08 7–20 3.9b 23 1-62
NIED IV 20 23 34 00 38.40N 142.10E 32 3.7W **¶600594492**
JMA IV 20 23 34 05.2–.10 38.41N 142.10E 38–1 4.0
IDC IV 20 23 34 07.0–2.9 38.31N 142.18E 48–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ47.00000°,λ-32.00000°. NP2:ϕ_s314.00000°,δ67.00000°,λ-133.00000°. $M_0$3.55000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=17.0km az=100.0.

(228) Near east coast of eastern Honshu

ISC IV 21 00 36 10.2–1.1 35.81N–.06 140.79E–.09 10–8 3.3b 14 0-65
NIED IV 21 00 36 00 35.80N 140.80E 8 3.6W **¶17201657**
ISCJB IV 21 00 36 10.0–.80 35.80N–.05 140.8E–.10 13–7 3.2b
JMA IV 21 00 36 10.5 35.79N 140.76E 6–1 3.8
IDC IV 21 00 36 16.1–1.2 34.92N 138.86E 0 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ44.00000°,λ-15.00000°. NP2:ϕ_s146.00000°,δ80.00000°,λ-133.00000°. $M_0$2.60000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.7km az=172.6.
JMA Event type fe.
IDC Error ellipse: s-maj=36.8km s-min=20.7km az=82.0.

(229) Off east coast of Honshu

ISC IV 21 00 39 04.6–.31 40.37N–.03 143.67E–.03 21–3 5.5b,5.3s 1506 2-154
NIED IV 21 00 39 00 40.30N 143.70E 11 5.6W,5.3s **¶16449644**
JMA IV 21 00 39 01.5–.30 40.33N 143.68E 10 5.7,5.3s
BJI IV 21 00 39 01.0 40.26N 143.47E 10 5.8s,5.7
ISCJB IV 21 00 39 01.0–.59 40.35N–.02 143.59E–.02 6–3 5.4b,5.3s
NEIC IV 21 00 39 03.2–.11 40.34N 143.55E 10 5.7W,5.7W
GCMT IV 21 00 39 03.2–.10 40.30N 143.85E 15 5.7W,5.7W
IDC IV 21 00 39 05.0–3.2 40.33N 143.69E 26–21 5.3,5.3s
NEIC IV 21 00 39 04.0–.00 40.50N 143.68E 15 5.3,5.3s
MOS IV 21 00 39 05.1–.97 40.48N 143.54E 33 5.7b,5.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ28.00000°,λ25.00000°. NP2:ϕ_s41.00000°,δ78.00000°,λ116.00000°. $M_0$3.19000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=158.9.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=148.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.81 $M_{\phi\phi}$-0.84 $M_{r\theta}$1.79 $M_{\theta\phi}$-1.39 $M_{\phi r}$2.92 Best double couple: NP1:ϕ_s243.00000°,δ17.00000°,λ120.00000°. NP2: ϕ_s32.00000°,δ76.00000°,λ82.00000°. Principal axes: T 3.7100,Plg58.0000°,Azm291.0000° ; N 0.4600,Plg8.0000°,Azm34.0000°; P -4.1700,Plg30.0000°,Azm129.0000° $M_0$4.00000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s200.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000° ,Azm110.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s89,c162; s124,c307;Duration: 1$\dot{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.60±.02 $M_{\theta\theta}$-0.10±.02; $M_{\phi\phi}$-1.51±.02; $M_{r\theta}$1.24±.07; $M_{\theta\phi}$-0.53±.01; $M_{\phi r}$3.23±.07; Best double couple: NP1:ϕ_s21.00000° ,δ77.00000°,λ91.00000°. NP2:ϕ_s196.00000°,δ13.00000°,λ85.00000°. Principal axes: T 3.7890,Plg58.0000°,Azm292.0000°; N 0.0780,Plg1.0000°,Azm201.0000° ; P -3.8720,Plg32.0000°,Azm110.0000° $M_0$3.83000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=9.3km az=86.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-0.90 $M_{r\theta}$1.20 $M_{\theta\phi}$0.20 $M_{\phi r}$4.00 Best double couple: NP1:ϕ_s15.00000°,δ84.00000° ,λ95.00000°. NP2:ϕ_s149.00000°,δ7.00000°,λ44.00000°. Principal axes: T 4.3000,Plg49.0000°,Azm291.0000°; N -0.1000,Plg5.0000°,Azm195.0000° ; P -4.2000,Plg39.0000°,Azm100.0000° $M_0$4.00000×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.9km az=104.9.

(228) Near east coast of eastern Honshu

JMA IV 21 00 40 01.2–.10 37.31N 141.14E 26–1 4.4
¶600594541
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA IV 21 00 42 12.1 38.43N 141.89E 55–1 3.5
¶600594542
JMA Event type fe.

(229) Off east coast of Honshu

ISC IV 21 01 54 42.6–.38 40.33N–.03 143.74E–.03 19–1 5.7b,5.6s 1743 2-160
NIED IV 21 01 54 00 40.30N 143.70E 17 5.8W,5.6s **¶16449646**
BJI IV 21 01 54 37.8 40.25N 143.70E 10 6.1s,6.0
ISCJB IV 21 01 54 39.2–.51 40.31N–.02 143.70E–.01 6–3 5.6s,5.6b
JMA IV 21 01 54 40.5–.40 40.31N 143.65E 11–5 6.0,5.6b
NEIC IV 21 01 54 40.0–.00 40.32N 144.08E 15 6.0,5.6b
GCMT IV 21 01 54 41.6–.10 40.33N 143.87E 15 5.8W,5.6b
NEIC IV 21 01 54 41.6–.10 40.31N 143.63E 11 5.9,5.8W
IDC IV 21 01 54 42.8–1.8 40.34N 143.75E 22–11 5.5,5.5s
MOS IV 21 01 54 43.7–1.0 40.43N 143.65E 33 5.9b,5.6s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ33.00000°,λ6.00000°. NP2:ϕ_s41.00000°,δ87.00000°,λ123.00000°. $M_0$5.09000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=162.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-1.20 $M_{r\theta}$1.50 $M_{\theta\phi}$0.00 $M_{\phi r}$6.70 Best double couple: NP1:ϕ_s12.00000° ,δ85.00000°,λ91.00000°. NP2:ϕ_s172.00000°,δ5.00000°,λ69.00000°. Principal axes: T 7.1000,Plg49.0000°,Azm284.0000°; N -0.2000,Plg1.0000°,Azm192.0000° ; P -6.9000,Plg40.0000°,Azm101.0000° $M_0$7.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s103,c206; s122,c281;Duration: 1$\dot{s}$9 Moment tensor: Scale 10^{17}Nm; M_{rr}1.47±.03 $M_{\theta\theta}$0.17±.02; $M_{\phi\phi}$-1.65±.02; $M_{r\theta}$1.90±.09; $M_{\theta\phi}$-0.08±.02; $M_{\phi r}$6.47±.08; Best double couple: NP1:ϕ_s16.00000° ,δ84.00000°,λ93.00000°. NP2:ϕ_s167.00000°,δ7.00000°,λ61.00000°. Principal axes: T 6.8820,Plg51.0000°,Azm290.0000°; N 0.0780,Plg3.0000°,Azm196.0000° ; P -6.9650,Plg39.0000°,Azm103.0000° $M_0$6.92300×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=148.0. Felt at Ichinoseki and Misawa. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s64 Moment tensor: Scale 10^{17}Nm; M_{rr}2.87 $M_{\theta\theta}$-0.39 $M_{\phi\phi}$-2.48 $M_{r\theta}$1.24 $M_{\theta\phi}$-0.04 $M_{\phi r}$6.77 Best double couple: NP1:ϕ_s176.00000° ,δ11.00000°,λ77.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ92.00000°. Principal axes: T 7.6000,Plg55.0000°,Azm283.0000°; N -0.4300,Plg2.0000°,Azm189.0000° ; P -7.1600,Plg34.0000°,Azm98.0000° $M_0$7.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm280.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm100.0000°
IDC Error ellipse: s-maj=10.4km s-min=10.0km az=112.0.
MOS Error ellipse: s-maj=5.6km s-min=3.7km az=102.3.

(226) Near west coast of eastern Honshu

ISC IV 21 02 58 47.8–.85 38.29N–.06 138.52E–.06 20–6 3.5b 21 0-148
IDC IV 21 02 58 49.1–.90 37.44N 140.30E 26–6 3.4,3.3 **¶17201667**
JMA IV 21 02 58 50.2 38.24N 138.63E 16–1 3.7,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.3km s-min=16.1km az=124.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC IV 21 03 08 37.8–.67 37.25N–.04 142.27E–.04 27–4 5.0b,4.4s 718 1-153
NIED IV 21 03 08 00 37.20N 142.40E 23 4.9W,4.4s **¶16449647**
JMA IV 21 03 08 32.5–.20 37.19N 142.41E 13–3 5.0,4.4s
ISCJB IV 21 03 08 33.1–1.0 37.27N–.02 142.30E–.02 5–6 4.9b,4.5s
IDC IV 21 03 08 36.4–3.0 37.23N 142.25E 17–18 4.7,4.7
NEIC IV 21 03 08 37.5–1.1 37.27N 142.25E 24–8 5.1b,4.7
BJI IV 21 03 08 37.9 37.15N 142.36E 43 5.3b,4.8s
GCMT IV 21 03 08 37.5–.40 37.31N 142.22E 15 5.0W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ22.00000°,λ-127.00000°. NP2:ϕ_s140.00000°,δ73.00000°,λ-77.00000°. $M_0$2.78000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=169.7.
IDC Error ellipse: s-maj=12.5km s-min=9.9km az=120.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=143.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c20; s63,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.34±.10 $M_{\theta\theta}$1.12±.07; $M_{\phi\phi}$0.22±.07; $M_{r\theta}$-1.09±.27; $M_{\theta\phi}$-0.58±.05; $M_{\phi r}$4.20±.30; Best double couple: NP1:ϕ_s162.00000°,δ83.00000° ,λ-80.00000°. NP2:ϕ_s286.00000°,δ12.00000°,λ-146.00000°. Principal axes: T 4.1470,Plg38.0000°,Azm243.0000°; N 0.7220,Plg10.0000°,Azm341.0000° ; P -4.8690,Plg51.0000°,Azm83.0000° $M_0$4.50800×10^{16}

(228) Near east coast of eastern Honshu

ISC IV 21 03 37 36.9–3.5 38.28N–.07 142.1E–.10 23–22 3.6b 18 1-58
ISCJB IV 21 03 37 36.2–1.8 38.28N–.06 142.1E–.10 28–9 3.5b,3.4s **¶17201669**
IDC IV 21 03 37 37.6–8.7 38.40N 142.61E 38–62 3.6,3.6s
JMA IV 21 03 37 37.9–.10 38.32N 142.07E 36–1 3.9,3.6s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=9.1km az=26.0.
IDC Error ellipse: s-maj=76.0km s-min=25.0km az=75.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(45) California-Baja California border region

ISC	**IV**	**21 04 11 16.2–.85**	**32.46N–.02**	**115.55W–.02**	**16–6**		**96**	**0-7**
MEX	IV	21 04 11 15.9–.86	32.70N	115.32W	30–13	3.9		¶16449651
ISCJB	IV	21 04 11 16.0–.39	32.44N–.02	115.51W–.02	13–3	3.9		
NEIC	IV	21 04 11 17.0	32.41N	115.55W	4	4.0L,3.9		
ECX	IV	21 04 11 17.0–.68	32.41N	115.55W	4	4.1L,3.9		

ISC Event type fe.
MEX Error ellipse: s-maj=11.9km s-min=19.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=17.9.
NEIC Event type fe. Felt [III] at Mexicali. Felt [IV] at Calexico and [II] at El Centro, California. Also felt at Brawley, El Cajon, Imperial, La Mesa, La Quinta, Poway and San Diego. After ECX.
ECX Error ellipse: s-maj=1.8km s-min=1.6km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**21 04 44 43.8**	**36.99N**	**140.60E**	**7**	**3.0**		
								¶600594701

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**21 06 06 01.2–1.2**	**37.03N–.04**	**140.86E–.07**	**7–7**	**3.6b**	**19**	**0-69**
ISCJB	IV	21 06 05 59.6–.94	37.02N–.04	140.97E–.07	10–4	3.6b		¶17201677
IDC	IV	21 06 05 59.7–1.1	37.01N	140.91E	0	3.7,3.5		
JMA	IV	21 06 06 01.6	37.05N	140.79E	8–1	3.4,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.9km az=14.9.
IDC Error ellipse: s-maj=25.8km s-min=22.0km az=89.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s294.00000°,δ51.00000°,λ-105.00000°. NP2:ϕ_s138.00000°,δ41.00000°,λ-72.00000°. Principal axes: T Plg5.0000°,Azm35.0000°; N Plg12.0000°,Azm304.0000°; P Plg77.0000° ,Azm147.0000°

(229) Off east coast of Honshu

ISC	**IV**	**21 07 01 10.1–.73**	**38.84N–.04**	**143.09E–.04**	**16–4**	**4.6b,3.7s**	**207**	**1-85**
NIED	IV	21 07 01 00	38.70N	143.10E	14	4.2W,3.7s		¶16451846
IDC	IV	21 07 01 08.2–.64	38.78N	142.97E	0	4.4,4.3		
BJI	IV	21 07 01 08.4	38.78N	143.06E	19	4.8b,4.7b		
JMA	IV	21 07 01 08.6–.10	38.72N	143.05E	14–2	4.4,4.7b		
ISCJB	IV	21 07 01 08.5–.99	38.77N–.03	143.11E–.03	15–6	4.4b,3.7s		
MOS	IV	21 07 01 11.4–1.0	38.91N	143.05E	33	4.7b,3.7s		
NEIC	IV	21 07 01 13.2–1.5	38.79N	143.03E	34–10	4.5b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s287.00000°,δ24.00000°,λ-9.00000°. NP2:ϕ_s26.00000°,δ86.00000°,λ-114.00000°. M_o2.19000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=13.3km az=123.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=138.5.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=100.3.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=124.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 08 18 13.6–.44**	**38.33N–.03**	**142.20E–.03**	**25–2**	**5.4b,4.7s**	**1409**	**1-161**
NIED	IV	21 08 18 00	38.30N	142.20E	20	4.9W,4.7s		¶16450242
BJI	IV	21 08 18 10.5	38.33N	142.34E	28	5.1b,4.9b		
ISCJB	IV	21 08 18 12.9–.52	38.32N–.02	142.16E–.02	28–3	5.3b,4.6s		
IDC	IV	21 08 18 12.8–6.0	38.28N	142.19E	19–38	5.2,5.2		
MOS	IV	21 08 18 12.8–1.3	38.28N	142.19E	33	5.6b,4.3s		
JMA	IV	21 08 18 13.0–.10	38.32N	142.23E	31–1	5.2,4.3s		
GCMT	IV	21 08 18 16.1–.20	38.38N	142.10E	25–0	5.0W,4.3s		
NEIC	IV	21 08 18 16.1–.39	38.33N	142.09E	40–3	5.3b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ39.00000°,λ-103.00000°. NP2:ϕ_s330.00000°,δ52.00000°,λ-80.00000°. M_o2.82000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=149.6.
IDC Error ellipse: s-maj=12.6km s-min=9.8km az=100.0.
MOS Error ellipse: s-maj=4.9km s-min=3.1km az=96.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c104; s102,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.80±.13 $M_{\theta\phi}$2.45±.09; $M_{\phi\phi}$2.34±.09; $M_{r\theta}$0.17±.17; $M_{\theta\theta}$-1.55±.06; $M_{\phi r}$-0.47±.19; Best double couple: NP1:ϕ_s316.00000°,δ48.00000° ,λ-87.00000°. NP2:ϕ_s132.00000°,δ42.00000°,λ-93.00000°. Principal axes: T 3.9690,Plg3.0000°,Azm44.0000°; N 0.8530,Plg2.0000°,Azm134.0000° ; P -4.8320,Plg86.0000°,Azm261.0000° M_o4.40000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=139.0. Recorded [4 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 10 18 11.3–1.6**	**37.19N–.05**	**141.51E–.07**	**33–9**	**3.7b**	**25**	**1-64**
NIED	IV	21 10 18 00	37.20N	141.40E	41	3.7W		¶17201707
ISCJB	IV	21 10 18 10.7–.94	37.21N–.04	141.52E–.09	46–9	3.6b		
JMA	IV	21 10 18 12.5–.10	37.22N	141.38E	48–1	3.6		
IDC	IV	21 10 18 13.2–2.0	37.24N	141.35E	47–20	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ7.00000°,λ35.00000°. NP2:ϕ_s46.00000°,δ86.00000°,λ96.00000°. M_o3.81000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.9km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=26.3km s-min=15.3km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 11 32 14.0–1.8**	**38.86N–.06**	**141.9E–.10**	**46–10**	**3.6b**	**17**	**0-59**
ISCJB	IV	21 11 32 13.1–1.3	38.85N–.06	141.9E–.10	55–7	3.5b		¶17201711
JMA	IV	21 11 32 13.4–.10	38.81N	141.93E	50–1	3.6		
IDC	IV	21 11 32 15.6–1.9	39.41N	140.84E	0	3.6,3.6b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=20.0km s-min=7.6km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.4km s-min=25.3km az=87.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 13 37 03.1–.32**	**35.64N–.02**	**140.55E–.03**	**43–2**	**5.8s,5.8b**	**1897**	**0-166**
MOS	IV	21 13 36 59.9–1.1	35.63N	140.45E	34	6.0b,5.8s		¶16450819
BJI	IV	21 13 37 00.5	35.55N	140.55E	50	6.1s,6.0		
NIED	IV	21 13 37 00	35.60N	140.90E	44	6.1W,6.0		
ISCJB	IV	21 13 37 00.9–.35	35.60N–.02	140.43E–.01	35–3	5.8s,5.8b		
JMA	IV	21 13 37 02.1–.10	35.68N	140.69E	46–1	6.0,5.8b		
NEIC	IV	21 13 37 03.3–.12	35.58N	140.31E	43	6.2W,6.2W		
NEIC	IV	21 13 37 03.0–.00	35.62N	140.65E	42	6.2W,6.2W		
GCMT	IV	21 13 37 03.3–.10	35.56N	140.78E	42–0	6.2W,6.2W		
IDC	IV	21 13 37 03.9–.81	35.62N	140.50E	52–7	5.7s,5.7		
NEIC	IV	21 13 37 20.8–.00	35.82N	140.87E	45	5.7s,5.7		

ISC Event type fe.
MOS Error ellipse: s-maj=7.2km s-min=4.3km az=104.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ26.00000°,λ121.00000°. NP2:ϕ_s0.00000°,δ68.00000°,λ76.00000°. M_o1.65000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=160.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s4.00000°,δ68.00000°,λ85.00000°. NP2: ϕ_s198.00000°,δ22.00000°,λ103.00000°. Principal axes: T Plg66.0000°,Azm265.0000° ; N Plg5.0000°,Azm6.0000°; P Plg23.0000°,Azm98.0000°
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=146.0. Felt [IV] at Narita, Tokyo and Yokohama; [III] at Yokosuka. Felt widely in southeastern Honshu. Recorded [5L JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o1.90000×10^{18} Moment Tensor Solution. s84 Moment tensor: Scale 10^{18}Nm; M_{rr}1.08 $M_{\theta\theta}$0.15 $M_{\phi\phi}$-1.23 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.34 $M_{\phi r}$1.36 Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ84.00000°. NP2:ϕ_s16.00000° ,δ70.00000°,λ92.00000°. Principal axes: T 1.7400,Plg65.0000°,Azm289.0000° ; N 0.2200,Plg2.0000°,Azm195.0000°; P -1.9700,Plg25.0000°,Azm104.0000° M_o1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s175.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s355.00000°,δ70.00000°,λ90.00000°. Principal axes: T Plg65.0000°,Azm265.0000°; N Plg0.0000°,Azm0.0000°; P Plg25.0000° ,Azm85.0000°
NEIC Event type se. Moment Tensor Solution. s75 Moment tensor: Scale 10^{18}Nm; M_{rr}1.23 $M_{\theta\theta}$-0.17 $M_{\phi\phi}$-1.06 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.03 $M_{\phi r}$1.93 Best double couple: NP1:ϕ_s1.00000° ,δ75.00000°,λ90.00000°. NP2:ϕ_s182.00000°,δ15.00000°,λ91.00000°. Principal axes: T 2.3300,Plg60.0000°,Azm271.0000°; N -0.1700,Plg0.0000°,Azm1.0000° ; P -2.1600,Plg29.0000°,Azm91.0000° M_o2.30000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c302; s135,c474;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}1.81±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$-1.90±.01; $M_{r\theta}$-0.17±.01; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$1.42±.02; Best double couple: NP1:ϕ_s359.00000°,δ64.00000°,λ81.00000°. NP2:ϕ_s198.00000° ,δ27.00000°,λ107.00000°. Principal axes: T 2.3210,Plg70.0000°,Azm251.0000° ; N 0.0800,Plg8.0000°,Azm2.0000°; P -2.3990,Plg18.0000°,Azm95.0000° M_o2.36000×10^{18}
IDC Error ellipse: s-maj=10.3km s-min=7.9km az=72.0.
NEIC Event type se. Moment Tensor Solution. s73 Moment tensor: Scale 10^{18}Nm; M_{rr}1.75 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$-1.64 $M_{r\theta}$-0.01 $M_{\theta\phi}$-0.31 $M_{\phi r}$1.49 Best double couple: NP1:ϕ_s198.00000° ,δ25.00000°,λ103.00000°. NP2:ϕ_s4.00000°,δ65.00000°,λ84.00000°. Principal axes: T 2.3200,Plg69.0000°,Azm262.0000°; N -0.0800,Plg5.0000°,Azm6.0000° ; P -2.2400,Plg20.0000°,Azm98.0000° M_o2.30000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 13 47 11.3–.66**	**35.72N–.05**	**140.84E–.05**	**40–5**	**4.6b,4.5s**	**169**	**0-148**
BJI	IV	21 13 47 08.9	35.53N	140.89E	47	5.3b,5.3s		¶16450820
MOS	IV	21 13 47 09.6–1.3	35.77N	140.89E	42	4.8b,5.3s		
ISCJB	IV	21 13 47 10.5–.36	35.71N–.03	140.82E–.04	50–3	4.6s,4.6b		
NEIC	IV	21 13 47 11.2–.32	35.71N	140.70E	35	5.1b,4.6b		
JMA	IV	21 13 47 11.1–.10	35.67N	140.74E	45–1	4.3,4.6b		
IDC	IV	21 13 47 13.7–2.0	35.69N	140.63E	59–18	4.5,4.4		

ISC Event type se.
MOS Error ellipse: s-maj=8.5km s-min=5.5km az=101.3.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=28.3.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.7km az=139.0. Recorded [3 JMA] in Chiba.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s215.00000°,δ62.00000°,λ-134.00000°. NP2: ϕ_s100.00000°,δ50.00000°,λ-37.00000°. Principal axes: T Plg7.0000°,Azm335.0000° ; N Plg38.0000°,Azm239.0000°; P Plg51.0000°,Azm74.0000°
IDC Error ellipse: s-maj=14.4km s-min=10.2km az=96.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**21 13 49 02.1–.10**	**39.28N**	**142.23E**	**43–1**	**4.2**		
								¶600595091

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 13 53 59.2–1.1**	**35.73N–.03**	**140.65E–.04**	**32–7**	**4.6b**	**166**	**0-148**
NIED	IV	21 13 53 00	35.70N	140.70E	29	4.6W		¶16450821
MOS	IV	21 13 53 56.5–.98	35.65N	140.79E	32	4.7b		
ISCJB	IV	21 13 53 57.0–.24	35.71N–.02	140.85E–.04	33	4.5b		
BJI	IV	21 13 53 59.6	35.60N	140.50E	53	5.3b,5.1s		
JMA	IV	21 13 53 59.9–.10	35.71N	140.72E	49–1	4.4,5.1s		
NEIC	IV	21 13 54 00.2–.70	35.63N	140.63E	44–6	4.8b,5.1s		
IDC	IV	21 13 54 01.5–1.6	35.66N	140.59E	54–14	4.3,4.3L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ24.00000°,λ159.00000°. NP2:ϕ_s6.00000°,δ82.00000°,λ67.00000°. M_o8.05000×10^{15}
MOS Error ellipse: s-maj=9.5km s-min=5.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=10.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ61.00000°,λ83.00000°. NP2: ϕ_s205.00000°,δ29.00000°,λ102.00000°. Principal axes: T Plg73.0000°,Azm265.0000° ; N Plg6.0000°,Azm14.0000°; P Plg16.0000°,Azm106.0000°
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.4km az=109.0. Recorded [3 JMA] in Chiba.
IDC Error ellipse: s-maj=15.1km s-min=8.5km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 14 10 03.0–1.1**	**35.68N–.06**	**140.88E–.09**	**47–11**	**3.4b**	**19**	**0-59**
ISCJB	IV	21 14 10 01.2–.85	35.71N–.05	141.0E–.10	55–7	3.4b		¶17201716
IDC	IV	21 14 10 02.3–2.6	35.71N	140.95E	40–22	3.6,3.5		
JMA	IV	21 14 10 03.4–.10	35.65N	140.72E	47–1	3.1,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=7.1km az=162.2.
IDC Error ellipse: s-maj=34.7km s-min=13.2km az=85.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(78) Costa Rica

ISC	**IV**	**21 14 45 36.9–.59**	**10.16N–.06**	**84.20W–.05**	**87–5**	**4.1b**	**80**	**0-151**
NEIC	IV	21 14 45 35.4–1.1	9.80N	84.29W	96–8	4.1b		¶16505467
IDC	IV	21 14 45 35.2–1.2	10.23N	84.08W	72–16	4.5s,4.5		
ISCJB	IV	21 14 45 36.2–.28	10.17N–.05	84.23W–.04	97–3	3.9b,4.5		
CASC	IV	21 14 45 37.3–1.4	10.18N	84.19W	79–6	4.3,4.1b		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=26.0km s-min=9.7km az=203.0. Felt [III] in the Valle Central.
IDC Error ellipse: s-maj=42.8km s-min=18.3km az=23.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=4.0km az=33.6.
CASC Error ellipse: s-maj=4.1km s-min=3.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 15 06 51.3–.54**	**35.64N–.04**	**140.76E–.05**	**46–4**	**4.5b,4.4s**	**218**	**0-148**
NIED	IV	21 15 06 00	35.70N	140.80E	50	4.6W,4.4s		¶16451852
BJI	IV	21 15 06 47.9	35.59N	140.76E	40	4.9b,4.7b		
MOS	IV	21 15 06 48.2–.98	35.57N	140.81E	35	4.8b,4.7b		
NEIC	IV	21 15 06 51.0–.48	35.55N	140.70E	42–4	4.7b,4.7b		
ISCJB	IV	21 15 06 50.6–.33	35.59N–.03	140.74E–.04	55–2	4.5b,4.3s		
JMA	IV	21 15 06 51.4–.10	35.68N	140.74E	47–1	4.4,4.3s		
IDC	IV	21 15 06 52.3–1.7	35.57N	140.65E	51–15	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ26.00000°,λ107.00000°. NP2:ϕ_s356.00000°,δ65.00000°,λ82.00000°. M_o1.01000×10^{16}
MOS Error ellipse: s-maj=8.7km s-min=5.4km az=107.4.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=114.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.3km az=16.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s3.00000°,δ68.00000°,λ86.00000°. NP2: ϕ_s193.00000°,δ22.00000°,λ99.00000°. Principal axes: T Plg67.0000°,Azm266.0000° ; N Plg4.0000°,Azm4.0000°; P Plg23.0000°,Azm96.0000°
IDC Error ellipse: s-maj=13.6km s-min=10.7km az=103.0.

(115) Near coast of Peru

NEIC	**IV**	**21 16 11 09.0**	**15.93S**	**74.76W**	**35**	**4.2L**		
								¶16631149

NEIC Event type fe. Felt [II] at Lomas and Yauca. After ARE.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 16 11 17.0–.32**	**37.53N–.03**	**141.36E–.03**	**47–2**	**5.6b,5.2s**	**1664**	**0-161**
NIED	IV	21 16 11 00	37.50N	141.50E	53	5.6W,5.2s		¶602557845
BJI	IV	21 16 11 12.7	37.42N	141.50E	38	5.5b,5.4b		
MOS	IV	21 16 11 14.1–.92	37.56N	141.34E	33	5.8b,5.2s		
ISCJB	IV	21 16 11 16.7–.27	37.57N–.02	141.29E–.02	52–2	5.6b,5.2s		
JMA	IV	21 16 11 16.9–.10	37.51N	141.45E	48–1	5.6,5.2s		
IDC	IV	21 16 11 17.9–.45	37.54N	141.32E	53–4	5.4,5.2		
GCMT	IV	21 16 11 18.5–.10	37.55N	141.49E	54–0	5.6W,5.2		
NEIC	IV	21 16 11 18.0–.00	37.55N	141.22E	56	5.6W,5.2		
NEIC	IV	21 16 11 18.4–.40	37.55N	141.22E	56–3	5.7W,5.6W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ24.00000°,λ72.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ98.00000°. M_o2.68000×10^{17}
MOS Error ellipse: s-maj=6.0km s-min=3.7km az=98.5.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=155.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s33.00000°,δ56.00000°,λ98.00000°. NP2:ϕ_s198.00000°,δ35.00000°,λ78.00000°. Principal axes: T Plg77.0000°,Azm330.0000°; N Plg7.0000°,Azm208.0000°; P Plg11.0000° ,Azm117.0000°
IDC Error ellipse: s-maj=10.1km s-min=8.3km az=112.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s111,c214; s126,c286;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.74±.04 $M_{\theta\theta}$-0.30±.03; $M_{\phi\phi}$-2.43±.03; $M_{r\theta}$0.78±.03; $M_{\theta\phi}$-0.85±.03; $M_{\phi r}$1.88±.03; Best double couple: NP1:ϕ_s21.00000° ,δ63.00000°,λ92.00000°. NP2:ϕ_s198.00000°,δ27.00000°,λ87.00000°. Principal axes: T 3.4150,Plg72.0000°,Azm295.0000°; N -0.0070,Plg1.0000°,Azm200.0000° ; P -3.4000,Plg18.0000°,Azm110.0000° M_o3.40800×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.37 $M_{\theta\theta}$-0.45 $M_{\phi\phi}$-0.92 $M_{r\theta}$1.51 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.82 Best double couple: NP1:ϕ_s40.00000° ,δ73.00000°,λ91.00000°. NP2:ϕ_s217.00000°,δ17.00000°,λ87.00000°. Principal axes:

T 2.6500,Plg61.0000°,Azm310.0000°; N 0.3600,Plg0.0000°,Azm219.0000° ; P -3.0100,Plg28.0000°,Azm128.0000° $M_0$2.80000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=138.0. Felt at Ichinoseki, Sakado, Sendai, Tokyo and Yokohama. Recorded [4 JMA] in Fukushima and Miyagi. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}3.75 $M_{\theta\theta}$-0.56 $M_{\phi\phi}$-3.19 $M_{r\theta}$0.82 $M_{\theta\phi}$-0.93 $M_{\phi r}$2.07 Best double couple: NP1:ϕ_s196.00000°,δ29.00000°,λ87.00000°. NP2:ϕ_s20.00000° ,δ61.00000°,λ92.00000°. Principal axes: T 4.3800,Plg74.0000°,Azm294.0000° ; N -0.2700,Plg2.0000°,Azm199.0000°; P -4.1100,Plg16.0000°,Azm108.0000° $M_0$4.30000×10^{17}

(228) Near east coast of eastern Honshu

JMA	**IV**	**21 16 15 16.6**	**36.96N**	**140.58E**	**8–1**	**4.3**		**¶600595262**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 17 28 38.8–1.5**	**39.67N–.05**	**142.1E–.10**	**48–9**		**20**	**0-43**
ISCJB	IV	21 17 28 38.2–1.0	39.70N–.04	142.1E–.10	53–6	3.5b		**¶17201728**
JMA	IV	21 17 28 38.8–.10	39.68N	142.13E	48–1	3.5		
IDC	IV	21 17 28 40.7–3.5	40.19N	140.92E	0	3.6b,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.1km az=6.5.

JMA Event type fe.

IDC Error ellipse: s-maj=71.5km s-min=32.1km az=111.0.

(227) Eastern Honshu

ISC	**IV**	**21 18 09 45.3–1.1**	**37.02N–.03**	**140.57E–.04**	**5–11**		**21**	**0-61**
ISCJB	IV	21 18 09 45.1–.53	37.02N–.03	140.61E–.04	9–5	3.4b		**¶17201731**
IDC	IV	21 18 09 45.0–1.8	36.99N	140.62E	0	3.6,3.4		
JMA	IV	21 18 09 45.2	37.02N	140.58E	6–1	3.3,3.4		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=33.9.

IDC Error ellipse: s-maj=32.4km s-min=30.2km az=150.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s293.00000°,δ70.00000°,λ-106.00000°. NP2:ϕ_s152.00000°,δ25.00000°,λ-54.00000°. Principal axes: T Plg23.0000°,Azm35.0000°; N Plg15.0000°,Azm299.0000°; P Plg62.0000° ,Azm179.0000°

(235) Kyushu

JMA	**IV**	**21 18 44 40.2**	**33.03N**	**130.74E**	**12–1**	**3.8**		
NIED	IV	21 18 44 00	33.00N	130.70E	11	3.7W		**¶16451672**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s60.00000°,δ76.00000°,λ-163.00000°. NP2:ϕ_s325.00000°,δ73.00000°,λ-15.00000°. Principal axes: T Plg2.0000°,Azm192.0000°; N Plg68.0000°,Azm97.0000°; P Plg22.0000° ,Azm283.0000°

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ67.00000°,λ-167.00000°. NP2:ϕ_s141.00000°,δ78.00000°,λ-23.00000°. $M_0$3.52000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 20 28 40.8–.81**	**36.60N–.04**	**141.59E–.05**	**15–4**	**4.4b,3.8s**	**136**	**1-147**
NIED	IV	21 20 28 00	36.60N	141.40E	35	4.5W,3.8s		**¶16456410**
BJI	IV	21 20 28 38.6	36.63N	141.28E	6	4.8b,4.7b		
ISCJB	IV	21 20 28 39.2–.92	36.59N–.03	141.71E–.04	20–6	4.4b,3.7s		
MOS	IV	21 20 28 41.5–1.4	36.66N	141.68E	35	4.6b,3.7s		
NEIC	IV	21 20 28 43.4–2.0	36.57N	141.56E	34–14	4.6b,3.7s		
JMA	IV	21 20 28 43.3–.10	36.61N	141.41E	46–2	4.5,3.7s		
IDC	IV	21 20 28 44.1–2.4	36.58N	141.50E	38–21	4.3,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ11.00000°,λ89.00000°. NP2:ϕ_s4.00000°,δ79.00000°,λ90.00000°. $M_0$7.47000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=36.1.

MOS Error ellipse: s-maj=8.3km s-min=5.6km az=98.9.

NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=130.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=14.8km s-min=12.0km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 20 55 09.1–1.5**	**38.25N–.06**	**142.04E–.10**	**57–12**	**3.9b**	**34**	**1-68**
NIED	IV	21 20 55 00	38.30N	141.90E	53	4.1W		**¶600595503**
ISCJB	IV	21 20 55 08.6–.92	38.26N–.04	141.99E–.10	68–6	3.8b		
IDC	IV	21 20 55 08.9–2.6	38.30N	142.20E	62–23	3.8,3.6		
JMA	IV	21 20 55 10.3–.10	38.27N	141.87E	64–1	3.8,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ39.00000°,λ-178.00000°. NP2:ϕ_s10.00000°,δ89.00000°,λ-51.00000°. $M_0$1.37000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=5.8km az=19.5.

IDC Error ellipse: s-maj=30.6km s-min=15.1km az=87.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 21 22 19.9–.96**	**36.71N–.04**	**140.62E–.06**	**9–6**	**3.6b**	**30**	**0-91**
ISCJB	IV	21 21 22 18.4–.81	36.66N–.04	140.77E–.05	12–4	3.5b		**¶17201745**
IDC	IV	21 21 22 18.4–.81	36.71N	140.67E	0	3.8,3.6		
JMA	IV	21 21 22 20.1	36.71N	140.65E	5–1	3.4,3.6		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=37.5.

IDC Error ellipse: s-maj=19.9km s-min=18.5km az=154.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 21 28 45.3–1.4**	**36.72N–.05**	**140.72E–.06**	**5–9**	**3.7b**	**29**	**0-83**
NIED	IV	21 21 28 00	36.70N	140.60E	5	3.5W		**¶17201748**
IDC	IV	21 21 28 43.9–1.3	36.74N	140.89E	0	3.8,3.7		
ISCJB	IV	21 21 28 44.7–.88	36.66N–.03	140.78E–.05	12–4	3.7b,3.7		
JMA	IV	21 21 28 46.3	36.71N	140.65E	5–1	3.6,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ26.00000°,λ-89.00000°. NP2:ϕ_s117.00000°,δ64.00000°,λ-90.00000°. $M_0$2.02000×10^{14}

IDC Error ellipse: s-maj=40.6km s-min=20.7km az=70.0.

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=24.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s282.00000°,δ54.00000°,λ-99.00000°. NP2:ϕ_s116.00000°,δ37.00000°,λ-78.00000°. Principal axes: T Plg8.0000°,Azm18.0000°; N Plg7.0000°,Azm287.0000°; P Plg79.0000° ,Azm157.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**21 21 33 43.1–1.1**	**36.72N–.05**	**140.52E–.06**	**6–9**	**3.6b**	**14**	**0-84**
IDC	IV	21 21 33 41.4–1.4	36.64N	140.69E	0	3.7,3.7		**¶17201749**
JMA	IV	21 21 33 43.3	36.71N	140.65E	5–1	3.3,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=31.9km s-min=20.8km az=65.0.

JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**21 22 55 43.2–1.6**	**37.16N–.07**	**141.4E–.10**	**35**	**3.5b**	**18**	**0-61**
ISCJB	IV	21 22 55 40.4–1.2	37.07N–.07	141.61E–.09	35	3.5b		**¶17201756**
IDC	IV	21 22 55 47.3–5.3	37.24N	141.30E	87–43	3.4,3.3		
JMA	IV	21 22 55 48.4	37.15N	140.86E	7–1	2.8,3.3		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=9.5km az=8.8.

IDC Error ellipse: s-maj=46.3km s-min=23.9km az=83.0.

JMA Event type fe.

(135) Near coast of central Chile

ISC	**IV**	**22 00 08 21.3–.73**	**30.89S–.04**	**71.68W–.06**	**29–5**	**4.3b,3.8s**	**59**	**1-165**
NEIC	IV	22 00 08 20.0	30.82S	71.62W	42	4.4b,3.8s		**¶16531759**
GUC	IV	22 00 08 20.9–.58	30.82S	71.62W	42–4	4.4L,3.8s		
IDC	IV	22 00 08 22.5–.71	30.85S	71.52W	37–5	4.1,4.1		

ISC Event type fe.

NEIC Event type fe. Felt [III] at Ovalle and Punitaqui and [II] at Vicuna. After GUC.

GUC Error ellipse: s-maj=1.3km s-min=6.8km az=-1.0.

IDC Error ellipse: s-maj=27.2km s-min=18.2km az=82.0.

(377) Spain

ISC	**IV**	**22 00 10 14.6–1.1**	**37.47N–.03**	**2.33W–.02**	**5–9**		**340**	**0-16**
ISCJB	IV	22 00 10 14.8–.40	37.61N–.02	2.42W–.02	5–2			**¶16451677**
CSEM	IV	22 00 10 15.3–.12	37.47N	2.34W	5	3.6L		
SFS	IV	22 00 10 15.0	37.42N	2.29W	0	3.0L		
INMG	IV	22 00 10 15.8–1.6	37.41N	2.28W	6–3	3.1L		
IGIL	IV	22 00 10 15.9	37.42N	2.30W	0	3.1L		
MDD	IV	22 00 10 15.6–.26	37.42N	2.29W	0	3.0		
LDG	IV	22 00 10 16.3–.14	37.38N	2.27W	2	3.0L		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=160.8.

CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=156.0.

SFS Event type ke.

INMG Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=127.0.

MDD Event type fe. Error ellipse: s-maj=2.6km s-min=2.3km az=128.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.

LDG Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=146.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 01 17 31.1–.81**	**36.46N–.05**	**140.69E–.07**	**56–6**	**4.1b,3.3s**	**47**	**0-91**
NIED	IV	22 01 17 00	36.50N	140.60E	59	4.3W,3.3s		**¶600595705**
ISCJB	IV	22 01 17 29.8–.53	36.42N–.04	140.72E–.07	62–3	4.0b,3.3s		
JMA	IV	22 01 17 31.4–.10	36.45N	140.60E	56–1	4.1,3.3s		
IDC	IV	22 01 17 32.4–1.8	36.39N	140.50E	68–16	4.0,3.9		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ21.00000°,λ72.00000°. NP2:ϕ_s18.00000°,δ70.00000°,λ97.00000°. $M_0$3.27000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=12.8.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s12.00000°,δ64.00000°,λ96.00000°. NP2:ϕ_s179.00000°,δ26.00000°,λ78.00000°. Principal axes: T Plg70.0000°,Azm294.0000°; N Plg5.0000°,Azm190.0000°; P Plg19.0000° ,Azm98.0000°

IDC Error ellipse: s-maj=19.0km s-min=10.2km az=77.0.

(227) Eastern Honshu

ISC	**IV**	**22 01 57 00.7–1.2**	**37.02N–.05**	**140.67E–.04**	**5–9**	**3.5b**	**27**	**0-147**
ISCJB	IV	22 01 57 00.7–1.7	37.05N–.03	140.76E–.05	13–12	3.6b		**¶16707671**
JMA	IV	22 01 57 01.3	37.07N	140.66E	6–1	3.2		
IDC	IV	22 01 57 08.5–3.5	36.96N	140.48E	61–31	3.6,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.0km az=27.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s10.00000°,δ47.00000°,λ-113.00000°. NP2:ϕ_s222.00000°,δ47.00000°,λ-67.00000°. Principal axes: T Plg0.0000°,Azm116.0000°; N Plg17.0000°,Azm26.0000°; P Plg73.0000° ,Azm206.0000°

IDC Error ellipse: s-maj=31.9km s-min=19.2km az=84.0.

(135) Near coast of central Chile

ISC	**IV**	**22 02 57 38.3–.49**	**34.77S–.03**	**71.81W–.05**	**48–4**	**4.6b,3.4s**	**130**	**0-176**
SJA	IV	22 02 57 35.9–.62	34.92S	71.75W	72–11	4.3L,4.1W		**¶16553309**
ISCJB	IV	22 02 57 37.9–.38	34.80S–.03	71.71W–.05	58–3	4.6b,3.4s		
IDC	IV	22 02 57 38.5–.61	34.73S	71.65W	50–5	4.5,4.4		
BJI	IV	22 02 57 39.7	34.70S	71.50W	55	5.0b,4.8s		
GUC	IV	22 02 57 39.0–.73	34.71S	71.54W	15–7	4.7L,4.8s		
NEIC	IV	22 02 57 39.6–.62	34.70S	71.54W	56–5	4.5b,4.8s		

ISC Event type fe.

SJA Error ellipse: s-maj=4.6km s-min=13.2km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=21.4.

IDC Error ellipse: s-maj=20.9km s-min=14.8km az=81.0.

GUC Error ellipse: s-maj=1.6km s-min=3.4km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=4.7km az=80.0. Felt [IV] at Chepica, Chimbarongo, Constitucion, Hualane, Molina, Paredones, Pencahue, Pichilemu, Romeral and Santa Cruz; [III] at Cauquenes, Curico, Linares, Rio Claro, San Fernando, San Vicente de Taguatagua and Talca. Felt widely in central Chile.

(227) Eastern Honshu

ISC	**IV**	**22 03 03 51.3–.85**	**37.08N–.03**	**140.73E–.04**	**8–5**	**3.7b**	**34**	**0-95**
NIED	IV	22 03 03 00	37.10N	140.70E	5	3.7W		**¶17201776**
IDC	IV	22 03 03 49.9–.76	37.06N	140.70E	0	3.9,3.8		
ISCJB	IV	22 03 03 50.9–.86	37.07N–.03	140.82E–.05	15–5	3.9s,3.7b		
JMA	IV	22 03 03 51.3	37.09N	140.71E	7–1	3.9,3.7b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ31.00000°,λ-120.00000°. NP2:ϕ_s44.00000°,δ63.00000°,λ-73.00000°. $M_0$3.99000×10^{14}

IDC Error ellipse: s-maj=21.5km s-min=16.4km az=112.0.

ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.2km az=12.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ54.00000°,λ-97.00000°. NP2:ϕ_s194.00000°,δ36.00000°,λ-80.00000°. Principal axes: T Plg9.0000°,Azm97.0000°; N Plg6.0000°,Azm6.0000°; P Plg79.0000° ,Azm243.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 03 12 54.5–.75**	**38.53N–.04**	**141.91E–.04**	**48–6**	**4.6b,3.7s**	**269**	**0-146**
NIED	IV	22 03 12 00	38.50N	141.80E	50	4.4W,3.7s		**¶16451681**
BJI	IV	22 03 12 48.7	38.49N	142.17E	32	4.8b,4.8b		
MOS	IV	22 03 12 51.8–.86	38.50N	141.77E	36	4.8b,4.8b		
ISCJB	IV	22 03 12 53.7–.43	38.55N–.03	141.88E–.04	52–3	4.5b,3.6s		
NEIC	IV	22 03 12 54.2–.38	38.50N	141.76E	41–3	4.7b,3.6s		
JMA	IV	22 03 12 55.3–.10	38.53N	141.81E	50–1	4.4,3.6s		
IDC	IV	22 03 12 56.9–1.8	38.52N	141.75E	65–15	4.4,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ18.00000°,λ85.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ91.00000°. $M_0$4.56000×10^{15}

MOS Error ellipse: s-maj=9.8km s-min=5.1km az=106.6.

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=31.8.

NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=130.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=13.6km s-min=10.4km az=116.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 03 17 49.8–1.1**	**36.96N–.03**	**140.57E–.04**	**5–7**	**3.6b**	**32**	**0-147**
NIED	IV	22 03 17 00	37.00N	140.60E	5	3.8W		**¶17201778**
IDC	IV	22 03 17 48.8–.73	36.85N	140.53E	0	4.0,3.7		
ISCJB	IV	22 03 17 49.5–.54	36.94N–.03	140.64E–.05	13–4	3.7b,3.7		
JMA	IV	22 03 17 49.8	36.96N	140.59E	7–1	3.8,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ30.00000°,λ-134.00000°. NP2:ϕ_s262.00000°,δ69.00000°,λ-68.00000°. $M_0$4.86000×10^{14}

IDC Error ellipse: s-maj=21.7km s-min=18.1km az=127.0.

ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=24.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s29.00000°,δ49.00000°,λ-111.00000°. NP2:ϕ_s240.00000°,δ45.00000°,λ-67.00000°. Principal axes: T Plg2.0000°,Azm134.0000°; N Plg16.0000°,Azm43.0000°; P Plg74.0000° ,Azm231.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 03 37 42.0–1.2**	**38.34N–.04**	**141.78E–.09**	**49–10**	**3.5b**	**34**	**0-146**
NIED	IV	22 03 37 00	38.40N	141.60E	35	3.7W		**¶17201783**
ISCJB	IV	22 03 37 41.8–.70	38.36N–.04	141.70E–.08	61–6	3.5b		
JMA	IV	22 03 37 42.8	38.38N	141.65E	56–1	3.8		
IDC	IV	22 03 37 42.8–3.8	38.28N	141.81E	57–36	3.5,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ44.00000°,λ-32.00000°. NP2:ϕ_s47.00000°,δ68.00000°,λ-129.00000°. $M_0$4.44000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.5km az=16.4.

JMA Event type fe.

IDC Error ellipse: s-maj=28.9km s-min=19.2km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 04 42 47.7–1.5**	**35.71N–.06**	**141.00E–.09**	**12–7**	**3.3b**	**16**	**0-59**
NIED	IV	22 04 42 00	35.70N	140.90E	8	3.8W		**¶17201786**
ISCJB	IV	22 04 42 45.0–2.2	35.76N–.06	141.18E–.10	4–11	3.3b		
IDC	IV	22 04 42 45.9–4.1	35.72N	141.05E	0	3.5,3.4b		
JMA	IV	22 04 42 48.7–.20	35.71N	140.95E	10–1	3.8,3.4b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ34.00000°,λ-82.00000°. NP2:ϕ_s163.00000°,δ57.00000°,λ-95.00000°. $M_0$5.95000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=7.4km az=147.1.

IDC Error ellipse: s-maj=123.9km s-min=25.9km az=55.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(135) Near coast of central Chile

ISC	**IV**	**22 05 12 49.8–.25**	**37.87S–.03**	**73.78W–.05**	**18**	**5.2b,5.0s**	**831**	**1-177**
IDC	IV	22 05 12 47.0–.44	37.92S	73.92W	0	4.9,4.8		**¶16451682**
BJI	IV	22 05 12 48.2	37.27S	73.75W	19	5.3s,5.2		
NEIC	IV	22 05 12 48.0	37.91S	73.90W	19	5.6W,5.3L		
GCMT	IV	22 05 12 48.0–.10	38.10S	74.31W	14–0	5.3W,5.3L		
GUC	IV	22 05 12 48.5–.38	37.91S	73.91W	19–12	5.3L,5.3L		
ISCJB	IV	22 05 12 48.5–.14	37.88S–.02	73.74W–.04	18	5.2b,5.0s		
MOS	IV	22 05 12 51.6–1.2	37.88S	73.78W	33	5.3b,4.9s		

ISC Event type fe.
IDC Error ellipse: s-maj=19.0km s-min=10.5km az=65.0.
NEIC Event type fe. Felt [IV] at Lebu and Tirua; [III] at Arauco, Coronel, Hualqui and Talcahuano; [II] at Angol, Concepcion and Tome. After GUC. Moment Tensor Solution. s16
Moment tensor: Scale 10^{17}Nm; M_{rr}1.96 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-1.84 $M_{r\theta}$-0.70 $M_{\theta\phi}$0.48 $M_{\phi r}$-1.71
Best double couple: NP1:ϕ_s188.00000°,δ67.00000°,λ108.00000°. NP2:ϕ_s329.00000°,δ29.00000°,λ54.00000°. Principal axes: T 2.8500,Plg64.0000°,Azm127.0000°
; N -0.3300,Plg16.0000°,Azm1.0000°; P -2.5200,Plg20.0000°,Azm265.0000°
$M_0$2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s78,c103; s103,c190;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.02 $M_{\theta\theta}$-0.01±.01; $M_{\phi\phi}$-0.73±.02; $M_{r\theta}$-0.03±.03; $M_{\theta\phi}$-0.00±.01; $M_{\phi r}$-0.97±.06; Best double couple: NP1: ϕ_s182.00000°,δ71.00000°,λ91.00000°. NP2:ϕ_s359.00000°,δ19.00000°,λ88.00000°.
Principal axes: T 1.2300,Plg64.0000°,Azm93.0000°; N -0.0100,Plg1.0000°,Azm1.0000°
; P -1.2190,Plg26.0000°,Azm271.0000° $M_0$1.22400×10^{17}
GUC Error ellipse: s-maj=2.1km s-min=4.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=6.5.
MOS Error ellipse: s-maj=17.1km s-min=7.1km az=105.1.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 06 35 22.8–.80**	**35.47N–.04**	**140.10E–.04**	**26–5**	**4.1b**	**52**	**0-148**
NIED	IV	22 06 35 00	35.50N	140.20E	26	4.1W		**¶602557860**
IDC	IV	22 06 35 18.8–.63	35.37N	140.09E	0	4.0,3.9		
ISCJB	IV	22 06 35 22.6–.33	35.41N–.03	140.13E–.05	37–3	4.0b,3.9		
JMA	IV	22 06 35 22.7–.10	35.50N	140.14E	24–2	4.1,3.9		
NEIC	IV	22 06 35 25.0–.61	35.31N	140.04E	44–6	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ64.00000°,λ156.00000°. NP2:ϕ_s9.00000°,δ69.00000°,λ28.00000°. $M_0$1.34000×10^{15}
IDC Error ellipse: s-maj=19.8km s-min=12.9km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=151.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s198.00000°,δ87.00000°,λ-24.00000°. NP2: ϕ_s289.00000°,δ66.00000°,λ-177.00000°. Principal axes: T Plg15.0000°,Azm246.0000°
; N Plg65.0000°,Azm12.0000°; P Plg19.0000°,Azm151.0000°
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.6km az=86.0. Recorded [3 JMA] in Chiba.

(365) Aegean Sea

ISC	**IV**	**22 07 50 40.7–.92**	**40.11N–.01**	**24.88E–.01**	**7–6**	**3.9b,3.6s**	**677**	**0-119**
IDC	IV	22 07 50 38.9–.95	40.07N	24.74E	0	3.9,3.8L		**¶16452794**
ISCJB	IV	22 07 50 39.8–.40	40.13N–.01	24.86E–.01	8–3	3.9b,3.5s		
NEIC	IV	22 07 50 39.9	40.12N	24.89E	26	4.4L,4.3b		
ATH	IV	22 07 50 39.9	40.11N	24.90E	27–0	4.3L,4.3b		
ISK	IV	22 07 50 40.9	40.08N	24.94E	7	4.4L,4.3b		
THE	IV	22 07 50 40.9	40.11N	24.89E	11–0	4.2L,4.3b		
SOF	IV	22 07 50 40.9	40.24N	24.90E	4	4.1,4.3b		
CSEM	IV	22 07 50 41.0–.07	40.11N	24.85E	10	4.2b,4.3b		
BJI	IV	22 07 50 41.9	40.10N	24.90E	26	4.8s,4.7		
MOS	IV	22 07 50 42.2–1.2	40.21N	24.92E	33	4.4b,4.7		
DDA	IV	22 07 50 44.8	40.20N	25.30E	40	4.0L,4.7		

ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=13.1km az=23.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=7.4.
NEIC Event type fe. Felt at Drama, Greece. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=49.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=10.0.
MOS Error ellipse: s-maj=5.6km s-min=4.6km az=84.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 08 42 40.6–1.5**	**37.38N–.04**	**141.88E–.05**	**11–9**	**4.1b,3.3s**	**91**	**1-90**
NIED	IV	22 08 42 00	37.40N	141.80E	17	3.8W,3.3s		**¶16452795**
BJI	IV	22 08 42 35.0	37.04N	142.36E	13	4.7b,4.6b		
IDC	IV	22 08 42 39.5–.71	37.34N	141.78E	0	4.0,4.0L		
ISCJB	IV	22 08 42 40.5–1.0	37.34N–.03	141.90E–.06	22–6	4.2b,3.2s		
NEIC	IV	22 08 42 40.8–2.3	37.28N	141.90E	12–14	4.6b,3.2s		
MOS	IV	22 08 42 42.6–1.2	37.41N	141.79E	33	4.3b,3.2s		
JMA	IV	22 08 42 43.6–.20	37.40N	141.77E	31–3	4.1,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ48.00000°,λ178.00000°. NP2:ϕ_s212.00000°,δ89.00000°,λ42.00000°. $M_0$6.04000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=13.8km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.6km az=25.6.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.1km az=125.0.
MOS Error ellipse: s-maj=13.2km s-min=7.4km az=83.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 08 52 01.2–2.8**	**38.38N–.05**	**142.2E–.10**	**11–17**		**16**	**1-58**
ISCJB	IV	22 08 52 02.5–1.7	38.38N–.06	142.2E–.10	28–9	3.4b		**¶17201800**
JMA	IV	22 08 52 03.8–.10	38.40N	142.17E	34–1	3.8		
IDC	IV	22 08 52 03.1–2.5	37.77N	142.66E	0	3.5,3.4b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=9.5km az=2.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.5km s-min=37.2km az=50.0.

(227) Eastern Honshu

JMA	**IV**	**22 12 00 30.7**	**37.03N**	**140.77E**	**10–1**	**2.9**	**¶600596105**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 12 38 33.1–2.1**	**36.91N–.09**	**140.58E–.05**	**0–22**		**15**	**0-61**
ISCJB	IV	22 12 38 33.8–.79	36.95N–.05	140.71E–.06	17–8	3.4b		**¶17201813**
JMA	IV	22 12 38 34.3	36.97N	140.60E	6–1	3.3		
IDC	IV	22 12 38 34.4–2.8	36.72N	140.64E	0	3.6,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.4km az=145.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s66.00000°,δ53.00000°,λ-105.00000°. NP2:ϕ_s271.00000°,δ39.00000°,λ-71.00000°. Principal axes: T Plg7.0000°,Azm167.0000°; N Plg12.0000°,Azm76.0000°; P Plg76.0000° ,Azm287.0000°
IDC Error ellipse: s-maj=49.7km s-min=28.2km az=31.0.

(227) Eastern Honshu

JMA	**IV**	**22 13 18 07.9**	**37.05N**	**140.79E**	**9–1**	**2.5**	**¶600596178**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 13 23 56.6–1.2**	**35.59N–.05**	**140.80E–.09**	**45–11**	**3.5b**	**18**	**0-59**
NIED	IV	22 13 23 00	35.60N	140.60E	59	3.9W		**¶17201816**
IDC	IV	22 13 23 48.9–2.2	35.75N	141.15E	0	4.0L,3.7		
ISCJB	IV	22 13 23 55.6–.77	35.60N–.05	140.82E–.09	57–5	3.5b,3.7		
JMA	IV	22 13 23 57.0–.10	35.64N	140.65E	47–1	3.1,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ15.00000°,λ98.00000°. NP2:ϕ_s17.00000°,δ75.00000°,λ88.00000°. $M_0$7.57000×10^{14}
IDC Error ellipse: s-maj=61.4km s-min=19.4km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=7.2km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**22 15 25 17.5–.40**	**37.21N–.03**	**141.05E–.03**	**25–2**	**5.5b,4.6s**	**1513**	**0-161**
NIED	IV	22 15 25 00	37.20N	141.30E	11	5.1W,4.6s		**¶16451861**
IDC	IV	22 15 25 13.8–.32	37.17N	141.12E	0	5.2,5.2		
BJI	IV	22 15 25 15.3	37.10N	141.21E	36	5.1b,5.1s		
ISCJB	IV	22 15 25 16.9–.35	37.20N–.02	141.00E–.02	28–2	5.4b,4.6s		
JMA	IV	22 15 25 16.1–.10	37.17N	141.19E	21–1	5.4,4.6s		
NEIC	IV	22 15 25 17.8–1.1	37.23N	140.99E	24–7	5.5b,4.5s		
GCMT	IV	22 15 25 17.8–.20	37.24N	141.16E	16–0	5.2W,4.5s		
MOS	IV	22 15 25 19.5–.87	37.64N	140.96E	33	5.7b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ43.00000°,λ-96.00000°. NP2:ϕ_s231.00000°,δ47.00000°,λ-85.00000°. $M_0$4.30000×10^{16}
IDC Error ellipse: s-maj=9.8km s-min=8.0km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=160.7.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s14.00000° ,δ63.00000°,λ-106.00000°. NP2:ϕ_s225.00000°,δ31.00000°,λ-62.00000°. Principal axes: T Plg17.0000°,Azm115.0000°; N Plg14.0000°,Azm21.0000°; P Plg68.0000°,Azm253.0000°
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=149.0. Recorded [5L JMA] in Fukushima.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c113; s107,c193; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.94±.18 $M_{\theta\theta}$3.78±.12; $M_{\phi\phi}$3.17±.12; $M_{r\theta}$-0.55±.30; $M_{\theta\phi}$2.84±.07; $M_{\phi r}$0.86±.32; Best double couple: NP1:ϕ_s221.00000°,δ46.00000° ,λ-100.00000°. NP2:ϕ_s55.00000°,δ45.00000°,λ-79.00000°. Principal axes:
T 6.3330,Plg1.0000°,Azm318.0000°; N 0.7500,Plg7.0000°,Azm228.0000°
; P -7.0740,Plg83.0000°,Azm54.0000° $M_0$6.70400×10^{16}
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=101.1.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 15 58 15.4–.99**	**36.96N–.05**	**141.09E–.08**	**47–8**	**3.7b**	**33**	**0-90**
NIED	IV	22 15 58 00	36.90N	141.10E	44	3.9W		**¶17201829**
ISCJB	IV	22 15 58 14.7–.57	36.95N–.05	141.06E–.08	57–4	3.8b,3.3s		
JMA	IV	22 15 58 15.6–.10	36.95N	141.08E	49–1	3.7,3.3s		
IDC	IV	22 15 58 18.8–1.9	36.86N	140.97E	83–20	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ20.00000°,λ105.00000°. NP2:ϕ_s32.00000°,δ71.00000°,λ85.00000°. $M_0$9.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.4km az=25.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=12.0km az=52.0.

(229) Off east coast of Honshu

ISC	**IV**	**22 16 27 39.7–.41**	**37.20N–.04**	**144.11E–.04**	**30–2**	**4.9b,4.3s**	**774**	**3-145**
NIED	IV	22 16 27 00	37.30N	144.00E	8	4.8W,4.3s		**¶16451862**
IDC	IV	22 16 27 34.5–.47	37.07N	144.29E	0	4.7,4.7		
ISCJB	IV	22 16 27 39.6–.13	37.23N–.03	144.06E–.02	37	4.8b,4.3s		
JMA	IV	22 16 27 39.2–.20	37.25N	143.97E	57	4.8,4.3s		
BJI	IV	22 16 27 39.0	37.49N	144.15E	34	5.0b,4.8b		
MOS	IV	22 16 27 40.6–.95	37.53N	144.06E	33	5.1b,4.8b		
NEIC	IV	22 16 27 40.7–.69	37.08N	144.12E	38–6	4.9b,4.8b		
GCMT	IV	22 16 27 40.7–.30	37.22N	144.08E	17–0	5.0W,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ37.00000°,λ-112.00000°. NP2:ϕ_s230.00000°,δ56.00000°,λ-74.00000°. $M_0$1.53000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=10.6km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.1km az=174.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=111.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=152.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c45; s75,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.91±.16 $M_{\theta\theta}$1.16±.11; $M_{\phi\phi}$1.76±.11; $M_{r\theta}$0.70±.29; $M_{\theta\phi}$1.67±.07; $M_{\phi r}$1.94±.31; Best double couple: NP1:ϕ_s208.00000°,δ62.00000° ,λ-101.00000°. NP2:ϕ_s52.00000°,δ30.00000°,λ-69.00000°. Principal axes:
T 3.7310,Plg17.0000°,Azm307.0000°; N -0.1090,Plg10.0000°,Azm214.0000°
; P -3.6130,Plg70.0000°,Azm94.0000° $M_0$3.67200×10^{16}

(227) Eastern Honshu

ISC	**IV**	**22 19 36 54.8–.96**	**37.02N–.03**	**140.69E–.04**	**11–7**	**3.7b**	**23**	**0-61**
IDC	IV	22 19 36 52.7–1.4	36.98N	140.75E	0	3.6,3.5		**¶17201833**
ISCJB	IV	22 19 36 54.0–.66	37.00N–.04	140.78E–.06	18–5	3.5b,3.5		
JMA	IV	22 19 36 54.8	37.02N	140.66E	7–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=22.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=27.4.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**22 19 44 16.5–1.5**	**37.00N–.06**	**139.44E–.04**	**5–13**		**17**	**0-61**
ISCJB	IV	22 19 44 17.2–.52	36.93N–.03	139.44E–.04	10–5	3.5b		**¶17201834**
JMA	IV	22 19 44 17.4	36.95N	139.43E	4–1	3.4		
IDC	IV	22 19 44 17.6–1.9	36.80N	139.45E	0	3.6,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.9km az=28.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s192.00000°,δ88.00000°,λ-14.00000°. NP2:ϕ_s282.00000°,δ76.00000°,λ-178.00000°. Principal axes: T Plg8.0000°,Azm238.0000°; N Plg76.0000°,Azm3.0000°; P Plg11.0000° ,Azm146.0000°
IDC Error ellipse: s-maj=21.0km s-min=14.3km az=15.0.

(460) Wyoming

ISC	**IV**	**22 19 50 19.6–.82**	**41.84N–.05**	**106.42W–.06**	**0**		**34**	**1-21**
IDC	IV	22 19 50 16.9–3.3	41.54N	106.50W	0	4.0L,3.9		**¶17201835**
ISCJB	IV	22 19 50 19.4–.37	41.90N–.04	106.29W–.05	0	2.7b,3.9		
NEIC	IV	22 19 50 20.8–.41	41.89N	106.35W	0	3.4L,3.9		

ISC Event type sm.
IDC Error ellipse: s-maj=42.1km s-min=13.7km az=169.0.
ISCJB Event type fm. Error ellipse: s-maj=6.1km s-min=3.9km az=40.2.
NEIC Event type fm. Error ellipse: s-maj=6.5km s-min=5.4km az=223.0. 62 km [38 miles] NE of Saratoga. Suspected Mining explosion.

(227) Eastern Honshu

JMA	**IV**	**22 21 25 27.8**	**37.23N**	**140.92E**	**5–1**	**2.7**	**¶600596672**

JMA Event type fe.

(235) Kyushu

JMA	**IV**	**22 21 33 04.8**	**33.03N**	**130.73E**	**12–1**	**3.1**	**¶600596679**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 23 02 56.3–1.4**	**36.38N–.03**	**141.01E–.06**	**23–11**	**3.6b**	**22**	**0-60**
ISCJB	IV	22 23 02 55.6–.88	36.34N–.03	141.12E–.07	30–5	3.5b		**¶17201842**
JMA	IV	22 23 02 57.2–.10	36.32N	140.98E	42–1	3.6		
IDC	IV	22 23 02 58.4–5.7	36.32N	141.14E	42–45	3.4,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=176.1.
JMA Event type fe.
IDC Error ellipse: s-maj=48.5km s-min=11.5km az=60.0.

(331) Kazakhstan-Xinjiang border region

ISC	**IV**	**22 23 11 11.3–.42**	**45.56N–.03**	**82.64E–.03**	**17–2**	**4.8b,3.9s**	**456**	**1-160**
BJI	IV	22 23 11 09.7	45.45N	82.60E	7	4.9b,4.9L		**¶16452070**
MOS	IV	22 23 11 10.3–.90	45.49N	82.66E	23	5.0b,4.9L		
IDC	IV	22 23 11 10.5–1.5	45.50N	82.63E	15–9	4.5,4.5		
ISCJB	IV	22 23 11 12.0–.46	45.57N–.02	82.67E–.03	33–4	4.7b,4.0s		
NEIC	IV	22 23 11 12.4–.81	45.51N	82.61E	25–5	4.9b,4.0s		
NNC	IV	22 23 11 13.8–1.2	45.63N	82.04E	7–10	5.3b,5.0		
SOME	IV	22 23 11 17.3	45.22N	82.12E	0	4.1s,5.0		

ISC Event type fe.
MOS Error ellipse: s-maj=6.1km s-min=4.5km az=120.4. Felt (III-IV) at Dostyk,(II-III) at Usharal. Moment Tensor Solution.
IDC Error ellipse: s-maj=9.0km s-min=8.5km az=3.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=26.5.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=192.0. Felt [IV] at Dostyq and [III] at Usharal, Kazakhstan.
NNC Event type se. Error ellipse: s-maj=14.8km s-min=5.1km az=112.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**22 23 15 26.7–.87**	**36.70N–.03**	**140.56E–.05**	**10–5**	**4.3b**	**64**	**0-97**
NIED	IV	22 23 15 00	36.70N	140.70E	5	4.1W		**¶602557859**
ISCJB	IV	22 23 15 25.9–.58	36.67N–.03	140.70E–.05	17–3	4.2b,2.5s		
JMA	IV	22 23 15 26.8	36.71N	140.64E	5–1	4.5,2.5s		
NEIC	IV	22 23 15 30.4–.60	36.68N	140.58E	36–5	4.3b,2.5s		
IDC	IV	22 23 15 30.9–2.1	36.69N	140.51E	40–19	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ28.00000°,λ-83.00000°. NP2:ϕ_s259.00000°,δ62.00000°,λ-94.00000°. $M_0$1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=28.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s288.00000°,δ58.00000°,λ-112.00000°. NP2:ϕ_s144.00000°,δ38.00000°,λ-60.00000°. Principal axes: T Plg10.0000°,Azm33.0000°; N Plg18.0000°,Azm300.0000°; P Plg69.0000° ,Azm151.0000°
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.2km az=130.0. Recorded [4 JMA] in Ibaraki.
IDC Error ellipse: s-maj=14.2km s-min=12.6km az=93.0.

(75) Nicaragua

ISC	**IV**	**23 01 50 32.5–.33**	**11.63N–.04**	**85.89W–.05**	**195–2**	**4.8b**	**854**	**0-162**
ISCJB	IV	23 01 50 31.8–.17	11.58N–.02	85.97W–.02	204–1	4.7b		**¶16452073**
CASC	IV	23 01 50 32.2–1.8	11.56N	86.00W	186–7	4.9b,4.6		
NEIC	IV	23 01 50 32.5–.21	11.57N	85.95W	196	4.9b,4.6		
IDC	IV	23 01 50 32.6–.40	11.75N	85.76W	194–3	4.6,4.2		
BJI	IV	23 01 50 33.6	11.60N	85.90W	210	4.9b,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.2km az=40.0.
CASC Error ellipse: s-maj=6.8km s-min=7.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=222.0. Felt at Catarina, Rivas and Tola. Felt [III] at Sardinal, Costa Rica. Also felt at Belen, Liberia, Santa Cruz, Samara and Tilaran.
IDC Error ellipse: s-maj=12.9km s-min=6.3km az=58.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 02 13 29.8–1.5**	**38.17N–.05**	**141.8E–.10**	**47–12**	**3.7b**	**26**	**0-58**
NIED	IV	23 02 13 00	38.20N	141.70E	53	3.5W		**¶17201855**
IDC	IV	23 02 13 21.0–2.8	38.39N	142.32E	0	3.7,3.6b		
ISCJB	IV	23 02 13 29.7–1.0	38.18N–.05	141.7E–.10	55–8	3.6b,3.6b		
JMA	IV	23 02 13 30.5–.10	38.17N	141.68E	50–1	3.5,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ32.00000°,λ28.00000°. NP2:ϕ_s43.00000°,δ76.00000°,λ119.00000°. $M_0$2.15000×10^{14}
IDC Error ellipse: s-maj=67.8km s-min=32.4km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=5.5km az=24.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(248) Philippine Islands region

ISC	**IV**	**23 03 06 10.4–.74**	**19.63N–.03**	**121.76E–.05**	**28–5**	**4.5b,3.7s**	**163**	**1-151**
MAN	IV	23 03 06 09	19.58N	121.55E	8	5.2b,4.3s		**¶16476059**
ISCJB	IV	23 03 06 09.4–.99	19.71N–.02	121.76E–.05	31–7	4.4b,3.7s		
NEIC	IV	23 03 06 09.9–1.4	19.65N	121.78E	24–10	4.6b,3.7s		
MOS	IV	23 03 06 12.5–1.1	19.70N	121.83E	60	4.9b,3.7s		
BJI	IV	23 03 06 13.3	19.96N	121.57E	33	4.7b,4.6b		
IDC	IV	23 03 06 13.9–2.5	19.67N	121.88E	59–23	4.6L,4.3		

ISC Event type fe.
MAN Event type fe. INTENSITY V - CALAYAN CAGAYAN.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.5km az=4.3.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=95.0. Felt [V PIVS] at Calayan, Luzon.
MOS Error ellipse: s-maj=12.0km s-min=6.0km az=102.5.
IDC Error ellipse: s-maj=16.8km s-min=11.8km az=76.0.

(193) Bougainville-Solomon Islands region

ISC	**IV**	**23 04 16 55.3–.22**	**10.36S–.03**	**161.25E–.03**	**86–1**	**6.5b**	**2120**	**2-175**
BJI	IV	23 04 16 52.4	10.35S	161.30E	80	6.6s,6.5		**¶602546183**
ISCJB	IV	23 04 16 53.5–.59	10.40S–.02	161.22E–.02	80–5	6.5b,6.5		
GCMT	IV	23 04 16 54.7–.00	10.47S	161.32E	77–0	6.8W,6.5		
NEIC	IV	23 04 16 54.7–.09	10.38S	161.20E	79	6.8W,6.8W		
IDC	IV	23 04 16 54.8–.56	10.38S	161.33E	84–4	6.3,6.0		
MOS	IV	23 04 16 55.9–.94	10.30S	161.19E	102	6.5b,6.4s		
NEIC	IV	23 04 16 55.0–.00	10.35S	161.23E	81	6.5b,6.4s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.5km az=25.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c376; s146,c687;Duration: 6τ3 Moment tensor: Scale 10^{19} Nm; M_{rr}0.37±.01 $M_{\theta\theta}$-0.99±.01; $M_{\phi\phi}$0.62±.01; $M_{r\theta}$-1.39±.01; $M_{\theta\phi}$1.37±.01; $M_{\phi r}$-0.23±.01; Best double couple: NP1:ϕ_s259.00000°,δ84.00000°,λ43.00000°. NP2:ϕ_s164.00000°,δ47.00000°,λ172.00000°. Principal axes: T 2.0050,Plg34.0000°,Azm131.0000° ; N 0.2650,Plg47.0000°,Azm265.0000°; P -2.2700,Plg24.0000°,Azm23.0000° $M_0$2.13700×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=107.0. Felt [V] at Honiara. Also felt at Tulagi. Complex earthquake observed on broadband displacement seismograms. A small event is followed by at least one other event about 2 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.10000×10^{19} Moment Tensor Solution. s73 Moment tensor: Scale 10^{19}Nm; M_{rr}0.34 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$0.36 $M_{r\theta}$-1.27 $M_{\theta\phi}$1.13 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ170.00000°. NP2:ϕ_s262.00000°,δ83.00000°,λ47.00000°. Principal axes: T 1.7300,Plg37.0000°,Azm136.0000° ; N 0.1500,Plg42.0000°,Azm269.0000°; P -1.8800,Plg26.0000°,Azm24.0000° $M_0$1.80000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ21.00000°,λ166.00000°. NP2:ϕ_s260.00000°,δ85.00000°,λ70.00000°. Principal axes: T Plg46.0000°,Azm149.0000°; N Plg0.0000°,Azm0.0000°; P Plg37.0000°,Azm8.0000°
IDC Error ellipse: s-maj=10.4km s-min=7.4km az=58.0.
MOS Error ellipse: s-maj=6.6km s-min=5.4km az=90.6.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{19}Nm; M_{rr}0.24 $M_{\theta\theta}$-0.91 $M_{\phi\phi}$0.66 $M_{r\theta}$-1.16 $M_{\theta\phi}$1.26 $M_{\phi r}$-0.26 Best double couple: NP1:ϕ_s257.00000° ,δ86.00000°,λ40.00000°. NP2:ϕ_s163.00000°,δ50.00000°,λ174.00000°. Principal axes: T 1.8200,Plg30.0000°,Azm127.0000°; N 0.1700,Plg50.0000°,Azm261.0000° ; P -1.9900,Plg23.0000°,Azm23.0000° $M_0$1.90000×10^{19}

(366) Turkey

ISC	**IV**	**23 05 22 11.9–.78**	**37.47N–.02**	**35.59E–.01**	**14–5**	**4.2b**	**358**	**0-78**
NSSC	IV	23 05 22 08.1–2.7	37.69N	35.48E	7–35	3.8L		**¶16476061**
BJI	IV	23 05 22 09.1	37.50N	35.60E	10	4.5b		
IDC	IV	23 05 22 10.1–.86	37.51N	35.45E	0	3.9,3.9		
DDA	IV	23 05 22 10.9	37.49N	35.58E	30	4.1L,3.9		
ISCJB	IV	23 05 22 11.9–.42	37.43N–.01	35.58E–.02	15–3	4.0b,3.9		
NEIC	IV	23 05 22 11.1	37.47N	35.58E	10	4.5b,4.0L		
ISK	IV	23 05 22 11.0	37.47N	35.58E	11	4.0L,4.0L		
CSEM	IV	23 05 22 12.1–.08	37.47N	35.60E	10	4.0L,4.0L		
GII	IV	23 05 22 16.4–.24	37.22N	35.12E	10	3.3,4.0L		
NIC	IV	23 05 22 16.3–.50	37.47N	35.10E	17	4.6b,4.3L		

ISC Event type fe.
NSSC Error ellipse: s-maj=18.4km s-min=20.2km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=13.8km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=18.8.
NEIC Event type fe. Felt at Adana. After ISK.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=93.0.
GII Event type ke.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 06 30 23.3–.92**	**39.03N–.04**	**142.37E–.05**	**29–6**	**4.7b,4.4s**	**198**	**1-146**
NIED	IV	23 06 30 00	39.00N	142.40E	53	4.3W,4.4s		**¶602557885**
BJI	IV	23 06 30 20.6	38.94N	142.77E	51	5.1b,4.7b		
MOS	IV	23 06 30 22.1–.98	39.01N	142.31E	33	4.8b,4.7b		
JMA	IV	23 06 30 22.5–.10	39.02N	142.42E	34–2	4.4,4.7b		
ISCJB	IV	23 06 30 23.9–.50	39.05N–.03	142.29E–.04	44–4	4.6b,4.5s		
IDC	IV	23 06 30 24.9–2.0	38.98N	142.35E	45–19	4.3,4.2		
NEIC	IV	23 06 30 26.5–.51	39.05N	142.28E	52–4	4.8b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ4.00000°,λ-145.00000°. NP2:ϕ_s210.00000°,δ88.00000°,λ-87.00000°. $M_0$3.35000×10^{15}
MOS Error ellipse: s-maj=8.4km s-min=5.6km az=90.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.9km az=42.9.
IDC Error ellipse: s-maj=15.2km s-min=11.8km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=142.0. Recorded [3 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 07 20 00.8–.65**	**35.55N–.05**	**141.08E–.06**	**33**	**3.7b**	**34**	**0-148**
IDC	IV	23 07 19 56.1–.75	35.51N	141.20E	0	3.9,3.8		**¶16505502**
ISCJB	IV	23 07 19 59.0–.54	35.52N–.04	141.23E–.06	33	3.7b,3.8		
JMA	IV	23 07 20 00.5–.10	35.57N	141.07E	37–1	3.6,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=15.6km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.4km az=10.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 08 11 29.6–1.8**	**37.34N–.04**	**141.78E–.06**	**8–10**	**4.0b**	**38**	**1-75**
NIED	IV	23 08 11 00	37.30N	141.80E	8	4.1W		**¶16577867**
ISCJB	IV	23 08 11 29.6–.97	37.34N–.03	141.83E–.05	15–6	3.9b		
JMA	IV	23 08 11 29.7–.10	37.32N	141.82E	26–2	4.2		
IDC	IV	23 08 11 30.0–.79	37.55N	141.65E	0	4.0,3.8		
NEIC	IV	23 08 11 33.2–2.3	37.55N	141.61E	21–16	4.3b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ16.00000°,λ-46.00000°. NP2:ϕ_s354.00000°,δ78.00000°,λ-102.00000°. $M_0$1.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=19.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=16.2km az=122.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=110.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 08 27 45.6–1.2**	**38.35N–.05**	**141.89E–.09**	**52–11**	**3.7b**	**35**	**0-146**
NIED	IV	23 08 27 00	38.40N	141.80E	8	3.7W		**¶17201864**
ISCJB	IV	23 08 27 45.0–.70	38.39N–.04	141.86E–.09	63–6	3.6b		
JMA	IV	23 08 27 46.4	38.40N	141.79E	57–1	4.0		
IDC	IV	23 08 27 46.5–2.4	38.37N	141.84E	60–22	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ73.00000°,λ-11.00000°. NP2:ϕ_s199.00000°,δ79.00000°,λ-163.00000°. $M_0$3.94000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.6km az=17.6.
JMA Event type fe.
IDC Error ellipse: s-maj=27.5km s-min=14.8km az=99.0.

(256) Leyte

MAN	**IV**	**23 09 35 43**	**11.23N**	**124.61E**	**12**	**4.5b,3.3L**		**¶601669063**

MAN Event type fe. INTENSITY II - TANANGA & CAPOOCAN LEYTE.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 10 12 46.9–.27**	**39.17N–.02**	**142.94E–.02**	**32–1**	**5.8b,5.7s**	**1871**	**1-165**
NIED	IV	23 10 12 00	39.10N	143.00E	35	5.9W,5.7s		**¶16452561**
ISCJB	IV	23 10 12 45.4–.49	39.13N–.01	142.93E–.01	30–3	5.8b,5.7s		
BJI	IV	23 10 12 45.1	39.03N	142.83E	34	5.9,5.9b		
MOS	IV	23 10 12 46.3–.95	39.25N	142.92E	33	5.9b,5.8s		
JMA	IV	23 10 12 46.2–.10	39.13N	143.00E	35–3	6.1,5.8s		
NEIC	IV	23 10 12 47.0–.10	39.10N	142.87E	31	6.0,6.0W		
IDC	IV	23 10 12 47.4–1.8	39.09N	142.91E	34–13	5.6,5.6s		
GCMT	IV	23 10 12 47.0–.10	39.21N	142.91E	30–0	6.0W,5.6s		
NEIC	IV	23 10 12 48.0–.00	38.96N	143.09E	38	6.0W,5.6s		
NEIC	IV	23 10 13 01.9–.00	39.18N	142.69E	32	6.0W,5.6s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ42.00000°,λ56.00000°. NP2:ϕ_s301.00000°,δ56.00000°,λ117.00000°. $M_0$8.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.7km az=160.6.
MOS Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=105.1. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=138.0. Felt [II] at Misawa and Tokyo. Also felt at Atsugi and Ichinoseki. Recorded [3 JMA] in Aomori, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s97 Moment tensor: Scale 10^{17}Nm; M_{rr}4.97 $M_{\theta\theta}$-8.10 $M_{\phi\phi}$3.12 $M_{r\theta}$-0.57 $M_{\theta\phi}$1.07 $M_{\phi r}$1.14 Best double couple: NP1:ϕ_s72.00000° ,δ48.00000°,λ55.00000°. NP2:ϕ_s298.00000°,δ53.00000°,λ122.00000°. Principal axes: T 5.5200,Plg65.0000°,Azm269.0000°; N 2.7100,Plg25.0000°,Azm97.0000° ; P -8.2300,Plg3.0000°,Azm6.0000° $M_0$7.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s120.00000°,δ25.00000°,λ90.00000°. NP2: ϕ_s300.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm210.0000° ; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm30.0000°
IDC Error ellipse: s-maj=9.6km s-min=7.4km az=66.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c286; s138,c425;Duration: 2τ3 Moment tensor: Scale 10^{18}Nm; M_{rr}1.05±.01 $M_{\theta\theta}$-1.00±.01; $M_{\phi\phi}$-0.05±.01; $M_{r\theta}$-0.30±.01; $M_{\theta\phi}$0.19±.01; $M_{\phi r}$0.20±.01; Best double couple: NP1: ϕ_s288.00000°,δ54.00000°,λ98.00000°. NP2:ϕ_s94.00000°,δ36.00000°,λ78.00000°. Principal axes: T 1.1210,Plg79.0000°,Azm230.0000°; N -0.0340,Plg7.0000°,Azm103.0000° ; P -1.0900,Plg9.0000°,Azm12.0000° $M_0$1.10500×10^{18}
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}7.65 $M_{\theta\theta}$-6.82 $M_{\phi\phi}$-0.83 $M_{r\theta}$-3.72 $M_{\theta\phi}$1.62 $M_{\phi r}$0.40 Best double couple: NP1:ϕ_s281.00000° ,δ58.00000°,λ86.00000°. NP2:ϕ_s107.00000°,δ32.00000°,λ96.00000°. Principal axes: T 8.5500,Plg76.0000°,Azm180.0000°; N -0.4500,Plg2.0000°,Azm282.0000° ; P -8.1100,Plg13.0000°,Azm13.0000° $M_0$8.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s60 Moment tensor: Scale 10^{18}Nm; M_{rr}1.03 $M_{\theta\theta}$-1.01 $M_{\phi\phi}$-0.02 $M_{r\theta}$0.41 $M_{\theta\phi}$0.26 $M_{\phi r}$-0.02 Best double couple: NP1:ϕ_s288.00000° ,δ35.00000°,λ97.00000°. NP2:ϕ_s100.00000°,δ56.00000°,λ85.00000°. Principal axes: T 1.1100,Plg79.0000°,Azm353.0000°; N 0.0400,Plg4.0000°,Azm103.0000° ; P -1.1500,Plg10.0000°,Azm193.0000° $M_0$1.10000×10^{18}

(163) Cook Strait

ISC	**IV**	**23 10 13 39.0–.96**	**41.85S–.03**	**174.10E–.03**	**17–6**	**3.4b**	**86**	**0-40**
IDC	IV	23 10 13 38.3–1.6	41.51S	173.88E	0	3.7,3.6		**¶16452562**
ISCJB	IV	23 10 13 39.1–.43	41.88S–.04	174.11E–.04	22–4	3.5b,3.6		
WEL	IV	23 10 13 39.7–.12	41.84S	174.09E	16–1	3.8L,3.6		
NEIC	IV	23 10 13 39.9	41.82S	174.10E	16	3.9L,3.6		

ISC Event type fe.
IDC Error ellipse: s-maj=34.2km s-min=27.8km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.0km az=155.9.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=1.0km az=0.0. Felt between Wellington, Marlborough and Nelson, maximum reported intensity. MM 5.
NEIC Event type fe. Felt at Marlborough. After WEL.

(228) Near east coast of eastern Honshu

ISC	**IV**	**23 10 59 24.1–1.5**	**35.90N–.04**	**141.67E–.05**	**26–10**	**4.5b,4.2s**	**202**	**1-152**
NIED	IV	23 10 59 00	35.90N	141.70E	23	4.3W,4.2s		**¶16476064**
IDC	IV	23 10 59 19.9–.42	35.87N	141.68E	0	4.4,4.4		
BJI	IV	23 10 59 23.2	35.63N	141.42E	29	5.3b,4.6b		
ISCJB	IV	23 10 59 23.4–1.0	35.86N–.03	141.65E–.04	33–7	4.5b,4.2s		
JMA	IV	23 10 59 23.3–.20	35.93N	141.68E	50–4	4.3,4.2s		
NEIC	IV	23 10 59 23.9–1.5	35.89N	141.66E	23–11	4.6b,4.2s		
MOS	IV	23 10 59 25.4–.89	36.26N	141.57E	33	4.6b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ43.00000°,λ-103.00000°. NP2:ϕ_s209.00000°,δ49.00000°,λ-79.00000°. $M_0$3.45000×10^{15}
IDC Error ellipse: s-maj=11.9km s-min=10.3km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.6km az=174.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.3km az=118.0.
MOS Error ellipse: s-maj=8.9km s-min=6.1km az=106.9.

(163) Cook Strait

ISC	**IV**	**23 11 07 29.3–.77**	**40.72S–.03**	**174.22E–.03**	**83–5**	**4.3b**	**271**	**0-152**
IDC	IV	23 11 07 26.6–1.3	40.73S	174.24E	52–14	4.1,4.1		**¶16452564**
ISCJB	IV	23 11 07 27.3–.26	40.76S–.02	174.26E–.04	110–4	4.1b,4.1		
WEL	IV	23 11 07 30.6–.10	40.69S	174.24E	71–1	4.3L,4.1		
NEIC	IV	23 11 07 30.5	40.70S	174.23E	73	4.3L,4.1		

ISC Event type fe.
IDC Error ellipse: s-maj=28.8km s-min=8.4km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=2.7km az=32.1.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Waikato to Nelson, maximum reported intensity MM 5.
NEIC Event type fe. Felt from Wanganui to Nelson. After WEL.

(227) Eastern Honshu

ISC	**IV**	**23 11 07 39.8–.94**	**37.02N–.03**	**140.67E–.03**	**8–6**	**4.1b**	**62**	**0-147**
NIED	IV	23 11 07 00	37.00N	140.70E	8	4.0W		**¶602557878**
ISCJB	IV	23 11 07 39.6–.45	37.04N–.02	140.76E–.04	17–3	4.1b		
JMA	IV	23 11 07 39.9	37.05N	140.66E	6–2	4.3		
IDC	IV	23 11 07 44.9–1.9	37.03N	140.57E	46–18	4.1,4.0		
NEIC	IV	23 11 07 45.1–.69	37.02N	140.66E	49–6	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ28.00000°,λ-104.00000°. NP2:ϕ_s154.00000°,δ63.00000°,λ-83.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=29.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s142.00000°,δ55.00000°,λ-78.00000°. NP2:ϕ_s303.00000°,δ37.00000°,λ-106.00000°. Principal axes: T Plg9.0000°,Azm224.0000°; N Plg10.0000°,Azm316.0000°; P Plg77.0000° ,Azm92.0000°
IDC Error ellipse: s-maj=16.6km s-min=12.3km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=122.0. Recorded [3 JMA] in Fukushima.

(235) Kyushu

JMA IV 23 11 51 51.3 32.88N 130.91E 11–1 3.5
¶16456656
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s83.00000°,δ62.00000°,λ-118.00000°. NP2:ϕ_s312.00000°,δ38.00000°,λ-49.00000°. Principal axes: T Plg13.0000°,Azm193.0000°; N Plg24.0000°,Azm97.0000°; P Plg62.0000°,Azm309.0000°
(228) Near east coast of eastern Honshu
ISC IV 23 12 56 42.3–1.7 35.40N–.04 140.94E–.05 10–10 4.0b 50 0-91
NIED IV 23 12 56 00 35.40N 141.00E 11 3.9W **¶16505506**
IDC IV 23 12 56 40.6–.57 35.35N 141.10E 0 4.0,3.9
ISCJB IV 23 12 56 41.9–.74 35.39N–.03 141.14E–.06 22–5 3.8b,3.6s
JMA IV 23 12 56 42.9–.10 35.44N 141.03E 23–1 3.9,3.6s
NEIC IV 23 12 56 45.6–.31 35.36N 141.05E 35 4.1b,3.6s
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s320.00000°,δ38.00000°,λ-59.00000°. NP2:ϕ_s102.00000°,δ58.00000°,λ-112.00000°. $M_0$8.90000×10^{14}
IDC Error ellipse: s-maj=18.0km s-min=12.3km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=179.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.7km az=102.0.
(331) Kazakhstan-Xinjiang border region
ISC IV 23 13 36 08.3–1.3 45.54N–.03 82.68E–.03 18–5 4.2b,3.6s 151 1-94
IDC IV 23 13 36 05.4–.61 45.56N 82.80E 0 4.2,4.1 **¶16456592**
NEIC IV 23 13 36 06.2–1.7 45.49N 82.62E 8–11 4.3b,4.1
BJI IV 23 13 36 06.3 45.50N 82.70E 6 4.6L,4.5b
MOS IV 23 13 36 06.2–1.4 45.51N 82.56E 22 4.4b,4.5b
ASRS IV 23 13 36 07.9–1.0 45.43N 82.60E 15 3.9s,4.5b
NNC IV 23 13 36 07.3–1.0 45.53N 82.47E 0 4.9b,4.6
SOME IV 23 13 36 12.3 45.65N 82.08E 10 3.9s,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=12.6km s-min=8.8km az=63.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=6.4km az=167.0. Felt [IV] at Dostyq, Kazakhstan.
MOS Event type fe. Error ellipse: s-maj=8.5km s-min=6.0km az=105.3. Felt (III-IV) at Dostyk. Moment Tensor Solution.
NNC Event type se. Error ellipse: s-maj=9.4km s-min=4.5km az=113.0.
(232) Western Honshu
JMA IV 23 14 08 54.3 35.02N 135.46E 12 2.6
¶600597320
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC IV 23 14 31 29.5–.71 36.49N–.04 140.68E–.05 52–6 4.3b,3.5s 138 0-95
NIED IV 23 14 31 00 36.40N 140.60E 56 4.5W,3.5s **¶602557895**
BJI IV 23 14 31 25.8 36.31N 140.85E 45 4.9b,4.6b
MOS IV 23 14 31 25.7–1.3 36.48N 140.66E 33 4.6b,4.6b
ISCJB IV 23 14 31 28.9–.40 36.48N–.03 140.62E–.05 61–2 4.3b,4.6b
JMA IV 23 14 31 29.2 36.42N 140.59E 55–1 4.2,4.6b
NEIC IV 23 14 31 31.6–.87 36.52N 140.42E 70–7 4.5b,4.6b
IDC IV 23 14 31 32.4–1.7 36.44N 140.40E 74–16 4.2,3.9
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s118.00000°,δ44.00000°,λ15.00000°. NP2:ϕ_s17.00000°,δ80.00000°,λ133.00000°. $M_0$5.90000×10^{15}
MOS Error ellipse: s-maj=10.6km s-min=6.3km az=105.6.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=28.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s29.00000°,δ80.00000°,λ130.00000°. NP2:ϕ_s131.00000°,δ41.00000°,λ16.00000°. Principal axes: T Plg41.0000°,Azm336.0000°; N Plg39.0000°,Azm200.0000°; P Plg24.0000°,Azm89.0000°
NEIC Event type fe. Error ellipse: s-maj=10.9km s-min=8.1km az=110.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=19.5km s-min=10.9km az=81.0.
(228) Near east coast of eastern Honshu
ISC IV 23 14 45 34.8–2.1 37.31N–.06 141.5E–.10 38–3 3.5b 25 0-57
ISCJB IV 23 14 45 33.9–1.1 37.33N–.04 141.48E–.09 45–9 3.5b **¶17201883**
IDC IV 23 14 45 33.9–2.0 37.83N 141.00E 0 3.8,3.8b
JMA IV 23 14 45 35.4–.10 37.34N 141.35E 48–1 3.8,3.8b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.1km az=23.9.
IDC Error ellipse: s-maj=41.5km s-min=27.6km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 23 16 07 10.9–1.2 35.80N–.05 140.93E–.08 12–7 3.5b 15 0-65
NIED IV 23 16 07 00 35.80N 141.00E 8 3.7W **¶17201889**
IDC IV 23 16 07 08.9–1.0 35.68N 140.89E 0 3.6,3.4
ISCJB IV 23 16 07 09.8–.90 35.73N–.06 140.96E–.09 20–5 3.5b,3.2s
JMA IV 23 16 07 10.6–.10 35.79N 140.96E 14–1 3.7,3.2s
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s38.00000°,δ65.00000°,λ-23.00000°. NP2:ϕ_s138.00000°,δ69.00000°,λ-153.00000°. $M_0$3.94000×10^{14}
IDC Error ellipse: s-maj=25.4km s-min=22.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=8.8km az=150.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC IV 23 16 39 49.1–1.2 36.93N–.05 140.60E–.04 9–11 3.6b 23 0-61
IDC IV 23 16 39 47.8–1.4 36.89N 140.63E 0 3.8,3.6 **¶17201893**
ISCJB IV 23 16 39 49.2–.54 36.95N–.03 140.69E–.05 20–5 3.6b,3.6
JMA IV 23 16 39 49.8 36.97N 140.60E 7–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=17.2km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.4km az=20.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s117.00000°,δ54.00000°,λ-73.00000°. NP2:ϕ_s269.00000°,δ39.00000°,λ-112.00000°. Principal axes: T Plg8.0000°,Azm195.0000°; N Plg14.0000°,Azm287.0000°; P Plg74.0000°,Azm76.0000°
(228) Near east coast of eastern Honshu
ISC IV 23 18 12 08.4–.94 36.88N–.03 140.68E–.04 13–7 3.2b 27 0-64
NIED IV 23 18 12 00 36.90N 140.70E 5 3.4W **¶17201899**
IDC IV 23 18 12 06.5–1.0 36.87N 140.69E 0 3.5,3.5
ISCJB IV 23 18 12 07.8–.59 36.86N–.03 140.77E–.06 20–5 3.2b,3.5
JMA IV 23 18 12 08.6 36.88N 140.66E 8–1 3.7,3.5
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s71.00000°,δ20.00000°,λ-8.00000°. NP2:ϕ_s169.00000°,δ87.00000°,λ-110.00000°. $M_0$1.40000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=15.1km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.2km az=17.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s193.00000°,δ64.00000°,λ-96.00000°. NP2:ϕ_s26.00000°,δ26.00000°,λ-78.00000°. Principal axes: T Plg19.0000°,Azm287.0000°; N Plg5.0000°,Azm195.0000°; P Plg70.0000°,Azm91.0000°
(228) Near east coast of eastern Honshu
ISC IV 23 18 54 58.6–.92 37.76N–.04 141.99E–.09 36–3 3.7b 42 1-89
NIED IV 23 18 54 00 37.80N 141.80E 53 4.1W **¶17201901**
ISCJB IV 23 18 54 58.7–.85 37.79N–.03 141.88E–.08 52–7 3.6b
JMA IV 23 18 54 59.8 37.80N 141.79E 47–1 4.2
IDC IV 23 18 54 59.4–2.2 37.87N 142.09E 46–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ44.00000°,λ96.00000°. NP2:ϕ_s10.00000°,δ47.00000°,λ84.00000°. $M_0$1.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.3km az=14.2.
JMA Event type fe.
IDC Error ellipse: s-maj=21.0km s-min=14.8km az=109.0.
(502) Arkansas
ISC IV 23 19 32 41.1–.83 35.24N–.02 92.39W–.02 7–5 78 0-5
ISCJB IV 23 19 32 40.8–.36 35.25N–.02 92.36W–.02 5–2 **¶16476066**
NEIC IV 23 19 32 41.2 35.24N 92.37W 7 2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=21.8.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Alexander. After CERI.
(228) Near east coast of eastern Honshu
ISC IV 23 20 04 57.6–.57 37.24N–.03 141.27E–.04 17–3 4.2b,3.3s 134 0-147
NIED IV 23 20 04 00 37.20N 141.30E 8 4.1W,3.3s **¶600597522**
BJI IV 23 20 04 55.3 37.08N 141.62E 35 4.7b,4.5b
ISCJB IV 23 20 04 56.9–.68 37.23N–.03 141.32E–.05 26–4 4.2b,3.5s
IDC IV 23 20 04 57.8–.60 37.20N 141.17E 18–3 4.1,4.1
JMA IV 23 20 04 57.6–.10 37.24N 141.29E 22–1 4.3,4.1
MOS IV 23 20 04 58.5–1.1 37.22N 141.26E 39 4.4b,4.1
NEIC IV 23 20 05 00.4–.53 37.26N 141.21E 37–4 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ44.00000°,λ-83.00000°. NP2:ϕ_s81.00000°,δ47.00000°,λ-96.00000°. $M_0$1.56000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.1km az=17.6.
IDC Error ellipse: s-maj=16.0km s-min=12.3km az=97.0.
JMA Event type fe.
MOS Error ellipse: s-maj=10.7km s-min=7.1km az=92.4.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=119.0.
(227) Eastern Honshu
ISC IV 23 20 53 03.1–1.2 37.05N–.03 140.66E–.04 1–8 3.5b 36 0-147
NIED IV 23 20 53 00 37.10N 140.80E 5 3.7W **¶16456657**
ISCJB IV 23 20 53 03.8–.87 37.09N–.03 140.85E–.05 14–5 3.6s,3.5b
IDC IV 23 20 53 03.4–.64 37.12N 140.71E 0 3.9,3.8
JMA IV 23 20 53 04.4 37.09N 140.75E 5–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ39.00000°,λ-91.00000°. NP2:ϕ_s41.00000°,δ51.00000°,λ-89.00000°. $M_0$4.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.2km az=35.4.
IDC Error ellipse: s-maj=18.6km s-min=14.1km az=119.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s236.00000°,δ72.00000°,λ-108.00000°. NP2:ϕ_s103.00000°,δ25.00000°,λ-46.00000°. Principal axes: T Plg25.0000°,Azm340.0000°; N Plg17.0000°,Azm242.0000°; P Plg59.0000°,Azm121.0000°
(181) Fiji Islands region
ISC IV 23 21 09 11.0–.28 16.31S–.04 179.43W–.04 515–2 4.9b 1254 3-172
ISCJB IV 23 21 09 08.0–.56 16.40S–.03 179.53W–.02 484–6 4.9b **¶16452975**
GCMT IV 23 21 09 10.9–.30 16.22S 179.51W 526–1 5.4W
IDC IV 23 21 09 10.7–.41 16.40S 179.46W 507–4 5.4,4.5
NEIC IV 23 21 09 10.9–.12 16.39S 179.53W 509 4.9b,4.5
BJI IV 23 21 09 11.4 15.97S 179.29W 517 5.0b,4.9b
MOS IV 23 21 09 11.6–.97 16.28S 179.56W 522 4.9b,4.9b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=159.7.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s77,c122;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.66±.03 $M_{\theta\theta}$0.96±.05; $M_{\phi\phi}$-0.29±.05; $M_{r\theta}$-0.82±.05; $M_{\theta\phi}$0.25±.04; $M_{\phi r}$-0.92±.04; Best double couple: NP1:ϕ_s49.00000°,δ76.00000°,λ-114.00000°. NP2:ϕ_s289.00000°,δ27.00000°,λ-32.00000°. Principal axes: T 1.5110,Plg27.0000°,Azm157.0000°; N 0.0050,Plg23.0000°,Azm55.0000°; P -1.5150,Plg53.0000°,Azm290.0000° $M_0$1.51300×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=6.4km az=156.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.7km az=144.0. Felt at Navua.
MOS Error ellipse: s-maj=7.6km s-min=7.2km az=60.0.
(228) Near east coast of eastern Honshu
ISC IV 23 21 30 36.7–1.4 35.44N–.04 140.85E–.08 20–5 3.4b 18 0-55
NIED IV 23 21 30 00 35.50N 140.90E 5 3.8W **¶17201911**
ISCJB IV 23 21 30 36.1–.92 35.47N–.04 140.96E–.09 25–5 3.3b
JMA IV 23 21 30 36.6–.10 35.49N 140.91E 25–1 3.7
IDC IV 23 21 30 43.6–5.2 35.25N 140.57E 68–32 3.4,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ15.00000°,λ-16.00000°. NP2:ϕ_s340.00000°,δ86.00000°,λ-104.00000°. $M_0$5.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=6.2km az=3.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=76.8km s-min=15.2km az=77.0.
(135) Near coast of central Chile
ISC IV 23 21 56 46.9–1.3 36.36S–.07 73.1W–.10 25 4.1b 17 0-93
ISCJB IV 23 21 56 45.5–.89 36.38S–.06 73.14W–.08 25 4.0b,3.2s **¶16577870**
NEIC IV 23 21 56 46.0 36.42S 73.23W 15 4.3b,4.0L
GUC IV 23 21 56 46.8–.41 36.42S 73.23W 15–5 4.0L,4.0L
IDC IV 23 21 56 48.4–1.5 36.31S 71.55W 0 4.0,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.9km az=143.3.
NEIC Event type fe. Felt [III] at Arauco, Concepcion, Penco and San Pedro de la Paz. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=59.6km s-min=19.1km az=85.0.
(227) Eastern Honshu
ISC IV 23 23 29 11.8–1.4 36.96N–.04 140.65E–.04 0–10 3.6b 27 0-69
IDC IV 23 23 29 11.5–1.1 37.02N 140.73E 0 3.7,3.5 **¶17201917**
ISCJB IV 23 23 29 12.2–.60 37.02N–.03 140.78E–.06 16–4 3.5b,3.5
JMA IV 23 23 29 12.8 37.02N 140.65E 6–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=20.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.2km az=19.7.
JMA Event type fe.
(162) South Island
WEL IV 24 00 14 01.4–.10 43.57S 172.43E 9–1 3.6L
¶16452986
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(76) Off coast of central America
ISC IV 24 00 19 23.8–1.0 12.93N–.07 88.55W–.05 66–9 4.1b 52 1-86
ISCJB IV 24 00 19 22.3–.46 12.87N–.06 88.57W–.05 73–4 3.9b **¶16596741**
CASC IV 24 00 19 22.8–1.8 12.80N 88.60W 33–9 4.4,3.7L
IDC IV 24 00 19 24.4–1.7 12.78N 88.49W 86–18 3.9,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=3.3km az=35.8.
CASC Error ellipse: s-maj=6.0km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=39.2km s-min=12.3km az=37.0.
(228) Near east coast of eastern Honshu
JMA IV 24 02 21 53.3–.10 38.74N 142.20E 32–2 3.9
NIED IV 24 02 21 00 38.70N 142.20E 35 4.0W **¶16577873**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ61.00000°,λ-155.00000°. NP2:ϕ_s224.00000°,δ68.00000°,λ-32.00000°. $M_0$1.01000×10^{15}
(228) Near east coast of eastern Honshu
ISC IV 24 03 17 58.5–.63 38.60N–.05 142.50E–.06 24 3.8b 40 1-145
ISCJB IV 24 03 17 57.2–.46 38.62N–.04 142.58E–.04 24 3.8b,3.0s **¶17201923**
NIED IV 24 03 18 00 38.60N 142.40E 53 4.1W,3.0s
JMA IV 24 03 18 00.5–.10 38.64N 142.41E 38–2 4.2,3.0s
IDC IV 24 03 18 02.6–2.4 38.66N 142.23E 57–20 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=149.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ37.00000°,λ128.00000°. NP2:ϕ_s221.00000°,δ62.00000°,λ65.00000°. $M_0$1.35000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=17.9km s-min=12.6km az=112.0.
(227) Eastern Honshu
ISC IV 24 03 25 10.6–.80 36.04N–.04 139.86E–.05 48–7 3.8b,3.0s 48 0-148
NIED IV 24 03 25 00 36.10N 139.90E 56 4.1W,3.0s **¶16456673**
ISCJB IV 24 03 25 09.7–.36 36.05N–.03 139.86E–.05 56–3 3.8b,2.9s
JMA IV 24 03 25 10.8–.10 36.07N 139.86E 44–1 4.1,2.9s
IDC IV 24 03 25 11.6–1.6 36.04N 139.78E 57–14 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ26.00000°,λ-153.00000°. NP2:ϕ_s169.00000°,δ78.00000°,λ-67.00000°. $M_0$1.87000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=167.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s357.00000°,δ79.00000°,λ74.00000°. NP2: ϕ_s235.00000°,δ20.00000°,λ146.00000°. Principal axes: T Plg53.0000°,Azm248.0000°; N Plg16.0000°,Azm1.0000°; P Plg32.0000°,Azm101.0000°
IDC Error ellipse: s-maj=15.6km s-min=12.6km az=54.0.
(228) Near east coast of eastern Honshu
ISC IV 24 04 02 17.9–1.4 39.14N–.04 142.34E–.06 20–5 3.7b 30 1-76
NIED IV 24 04 02 00 39.20N 142.40E 35 3.9W **¶17201924**

ISCJB IV 24 04 02 18.7–.99 39.17N–.04 142.41E–.09 37–10 3.5b
JMA IV 24 04 02 18.4–.10 39.20N 142.40E 29–1 4.1
IDC IV 24 04 02 21.6–2.3 39.15N 142.39E 51–21 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ35.00000°,λ-128.00000°. NP2:ϕ_s183.00000°,δ63.00000°,λ-67.00000°. $M_0$7.24000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.7km az=14.8.
JMA Event type fe.
IDC Error ellipse: s-maj=24.9km s-min=12.7km az=113.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 04 47 53.4–.99**	**38.35N–.05**	**141.90E–.07**	**60–8**	**4.1b**	**72**	**0-146**
NIED	IV	24 04 47 00	38.30N	141.90E	62	4.2W		**¶16505514**
ISCJB	IV	24 04 47 52.8–.54	38.35N–.03	141.90E–.06	71–3	4.1b		
JMA	IV	24 04 47 54.0–.10	38.34N	141.86E	63–1	4.3		
NEIC	IV	24 04 47 54.1–.76	38.40N	141.89E	64–6	4.3b		
IDC	IV	24 04 47 54.1–1.9	38.31N	141.88E	67–17	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ64.00000°,λ168.00000°. NP2:ϕ_s195.00000°,δ79.00000°,λ26.00000°. $M_0$2.11000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.7km az=27.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=5.8km az=135.0.
IDC Error ellipse: s-maj=15.6km s-min=12.6km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 05 12 56.1–1.1**	**36.67N–.04**	**140.67E–.06**	**10–6**	**3.6b**	**24**	**0-91**
ISCJB	IV	24 05 12 55.0–.95	36.63N–.05	140.74E–.06	13–4	3.5b		**¶16707840**
IDC	IV	24 05 12 54.2–.85	36.79N	140.81E	0	3.7,3.6		
JMA	IV	24 05 12 56.9	36.69N	140.61E	5–1	3.5,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.9km az=41.3.
IDC Error ellipse: s-maj=22.2km s-min=19.4km az=61.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 05 13 07.3–2.7**	**38.35N–.08**	**142.28E–.09**	**11–15**	**3.9b**	**21**	**1-74**
NIED	IV	24 05 13 00	38.40N	142.30E	20	4.0W		**¶17201926**
IDC	IV	24 05 13 05.4–.91	38.26N	142.26E	0	4.0,3.9b		
ISCJB	IV	24 05 13 07.0–1.6	38.31N–.07	142.35E–.09	23–9	3.9b,3.9b		
JMA	IV	24 05 13 08.3–.10	38.37N	142.31E	22–1	4.1,3.9b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ-88.00000°. NP2:ϕ_s5.00000°,δ59.00000°,λ-91.00000°. $M_0$9.97000×10^{14}
IDC Error ellipse: s-maj=28.1km s-min=21.0km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=11.4km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 06 11 34.6–.85**	**36.17N–.05**	**141.04E–.06**	**31**	**3.5b**	**15**	**0-65**
NIED	IV	24 06 11 00	36.10N	141.00E	44	3.6W		**¶600597905**
IDC	IV	24 06 11 31.2–1.2	36.30N	141.10E	0	3.9s,3.9		
ISCJB	IV	24 06 11 33.1–.79	36.17N–.05	141.08E–.07	31	3.9s,3.4b		
JMA	IV	24 06 11 34.0–.10	36.10N	141.03E	42–1	3.6,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ74.00000°,λ-170.00000°. NP2:ϕ_s77.00000°,δ80.00000°,λ-17.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=37.3km s-min=20.8km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.3km az=156.5.
JMA Event type fe.

(502) Arkansas

ISC	**IV**	**24 06 18 56.5–.80**	**35.22N–.02**	**92.40W–.02**	**5–5**		**180**	**0-11**
ISCJB	IV	24 06 18 56.2–.28	35.22N–.01	92.39W–.01	7–2			**¶16476070**
NEIC	IV	24 06 18 57.0	35.23N	92.38W	6	3.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.9km az=10.3.
NEIC Event type fe. Felt [III] at Conway, Damascus and Greenbrier. Also felt at Mountain Home and Rose Bud. After CERI.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 06 28 25.9–2.4**	**37.05N–.05**	**141.30E–.07**	**17–15**		**24**	**0-57**
IDC	IV	24 06 28 23.3–1.9	37.11N	141.35E	0	3.8,3.8s		**¶17201936**
JMA	IV	24 06 28 28.9–.10	37.09N	141.17E	50–1	3.7,3.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=28.2km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 07 00 04.7–.99**	**35.79N–.04**	**140.90E–.07**	**13–6**	**3.6b**	**26**	**0-148**
NIED	IV	24 07 00 00	35.80N	140.90E	8	3.7W		**¶17201939**
IDC	IV	24 07 00 02.9–.70	35.74N	140.92E	0	3.8,3.6		
ISCJB	IV	24 07 00 04.0–.75	35.80N–.04	140.96E–.07	17–5	3.5b,3.6		
JMA	IV	24 07 00 04.5–.10	35.82N	140.91E	12–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_s175.00000°,δ47.00000°,λ-93.00000°. $M_0$3.80000×10^{14}
IDC Error ellipse: s-maj=21.9km s-min=18.2km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.2km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(381) Central Italy

ISC	**IV**	**24 07 19 04.4–.71**	**43.53N–.02**	**12.13E–.01**	**13–4**	**3.5b**	**366**	**0-66**
LDG	IV	24 07 19 03.8–.12	43.60N	12.22E	2	3.2L		**¶16453000**
NEIC	IV	24 07 19 03.0	43.60N	12.20E	9	3.3L		
ISCJB	IV	24 07 19 03.9–.18	43.58N–.01	12.11E–.02	21–2	3.4b,3.1s		
ROM	IV	24 07 19 03.7–.09	43.59N	12.20E	8–1	3.3L,3.1s		
IASPE	IV	24 07 19 04.1–.79	43.56N–.02	12.18E–.02	13–5	3.5b,3.1s		
IDC	IV	24 07 19 04.9–1.8	43.69N	12.31E	0	3.4b,3.4		
CSEM	IV	24 07 19 04.2–.09	43.54N	12.13E	10	3.6L,3.4		
PRU	IV	24 07 19 05.8	43.66N	12.58E	0	3.6L,3.4		
STR	IV	24 07 19 13.3–.41	43.93N	11.46E	10	3.2L,3.4		

ISC Event type fe.
LDG Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=42.0.
NEIC Event type fe. Felt at San Giustino. After ROM.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=18.2.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=21.0.
IASPE Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=29.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
IDC Error ellipse: s-maj=29.5km s-min=20.5km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=27.0.
STR Event type ke.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 08 20 45.1–.76**	**38.31N–.03**	**141.98E–.06**	**30–5**	**3.8b**	**53**	**1-146**
NIED	IV	24 08 20 00	38.30N	141.80E	62	3.9W		**¶16577878**
ISCJB	IV	24 08 20 45.0–.69	38.28N–.03	141.93E–.07	45–7	3.7b		
IDC	IV	24 08 20 46.8–2.1	38.26N	141.91E	42–20	3.9,3.8L		
NEIC	IV	24 08 20 46.9–.85	38.25N	141.98E	45–9	4.3b,3.8L		
JMA	IV	24 08 20 47.2–.10	38.34N	141.77E	49–1	4.2,3.8L		

ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s233.00000°,δ41.00000°,λ-154.00000°. NP2:ϕ_s122.00000°,δ73.00000°,λ-52.00000°. $M_0$8.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.4km az=9.3.
IDC Error ellipse: s-maj=22.9km s-min=13.4km az=99.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=6.9km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(502) Arkansas

ISC	**IV**	**24 08 47 05.0–.80**	**35.23N–.02**	**92.41W–.02**	**5–5**		**117**	**0-9**
ISCJB	IV	24 08 47 04.6–.31	35.22N–.01	92.40W–.01	4–2			**¶16476071**
NEIC	IV	24 08 47 05.0	35.23N	92.38W	5	2.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.1km az=3.3.
NEIC Event type fe. Felt at Benton, Conway and Greenbrier. After CERI.

(162) South Island

ISC	**IV**	**24 08 51 00.5–.95**	**43.62S–.03**	**172.58E–.03**	**19–3**		**87**	**0-149**
ISCJB	IV	24 08 50 59.6–.47	43.66S–.03	172.64E–.05	23–4	3.2b		**¶16453003**
IDC	IV	24 08 50 59.9–1.9	43.36S	172.44E	0	3.6,3.5		
WEL	IV	24 08 51 01.3–.07	43.62S	172.50E	8–0	4.3L,3.5		
NEIC	IV	24 08 51 01.3	43.62S	172.49E	7	4.3L,3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.0km az=43.4.
IDC Error ellipse: s-maj=48.7km s-min=14.4km az=153.0.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.
NEIC Event type fe. Felt at Christchurch. After WEL.

(400) Central Mediterranean Sea

ISC	**IV**	**24 09 25 27.4–2.1**	**35.89N–.07**	**14.87E–.05**	**1–12**		**84**	**0-6**
ROM	IV	24 09 25 28.0–.47	35.83N	14.89E	9	3.7L		**¶16453005**
NEIC	IV	24 09 25 28.0	35.81N	14.89E	20	3.5L		
CSEM	IV	24 09 25 29.9–.50	35.93N	14.85E	10	3.7L		

ISC Event type fe.
ROM Event type ke. Error ellipse: s-maj=6.9km s-min=2.2km az=143.0.
NEIC Event type fe. Felt [III] at Birkirkara and San Giljan and [II] at Sliema and Tarxien. Also felt at Kalkara, Kirkop, Luqa, Masaskala, Melieha, Msida, Paola, Pieta, San Gwann, San Pawl il-Bahar, Valletta, Zabbar and Zejtun. After ROM.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=5.0km az=147.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 09 51 57.1–.57**	**38.71N–.04**	**141.97E–.04**	**50–4**	**4.5b,3.7s**	**232**	**0-151**
NIED	IV	24 09 51 00	38.60N	141.90E	53	4.5W,3.7s		**¶16453007**
MOS	IV	24 09 51 53.6–1.1	38.68N	142.01E	33	4.8b,3.7s		
BJI	IV	24 09 51 53.3	38.62N	142.30E	59	4.9b,4.7b		
ISCJB	IV	24 09 51 55.5–.42	38.66N–.03	141.98E–.04	52–3	4.5b,3.7s		
JMA	IV	24 09 51 56.5–.10	38.62N	141.92E	49–1	4.4,3.7s		
IDC	IV	24 09 51 57.2–.61	38.63N	141.84E	54–5	4.3,4.2		
NEIC	IV	24 09 51 58.2–.51	38.68N	141.92E	59–4	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ27.00000°,λ30.00000°. NP2:ϕ_s46.00000°,δ77.00000°,λ114.00000°. $M_0$6.79000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=4.9km az=96.6.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=36.2.
JMA Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=11.4km az=95.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=125.0.

(227) Eastern Honshu

ISC	**IV**	**24 10 09 51.1–.51**	**37.07N–.03**	**140.64E–.03**	**12–3**	**4.6b,3.6s**	**199**	**0-153**
NIED	IV	24 10 09 00	37.10N	140.70E	14	4.2W,3.6s		**¶602557908**
IDC	IV	24 10 09 50.9–.53	37.04N	140.48E	11–3	4.3,4.3L		
BJI	IV	24 10 09 50.8	37.06N	141.03E	37	4.9b,4.6b		
ISCJB	IV	24 10 09 51.1–.35	37.07N–.02	140.66E–.03	24–2	4.5b,3.7s		
JMA	IV	24 10 09 51.7	37.06N	140.64E	14–1	4.5,3.7s		
MOS	IV	24 10 09 52.1–1.1	37.12N	140.68E	33	4.5b,3.7s		
NEIC	IV	24 10 09 55.7–.51	37.08N	140.52E	43–5	4.9b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s126.00000°,δ25.00000°,λ-28.00000°. NP2:ϕ_s242.00000°,δ79.00000°,λ-113.00000°. $M_0$2.14000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=10.6km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=26.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s224.00000°,δ77.00000°,λ-115.00000°. NP2:ϕ_s109.00000°,δ28.00000°,λ-28.00000°. Principal axes: T Plg28.0000°,Azm334.0000°; N Plg24.0000°,Azm230.0000°; P Plg51.0000°,Azm106.0000°
MOS Error ellipse: s-maj=8.6km s-min=5.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=115.0. Recorded [4 JMA] in Fukushima.

(227) Eastern Honshu

JMA	**IV**	**24 10 35 15.5**	**37.10N**	**140.70E**	**8–1**	**2.8**		**¶600598067**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 10 45 14.2–.80**	**38.65N–.06**	**142.05E–.08**	**41**	**3.7b**	**30**	**1-82**
NIED	IV	24 10 45 00	38.70N	142.00E	53	3.8W		**¶17201955**
ISCJB	IV	24 10 45 12.2–.57	38.64N–.05	142.19E–.06	41	3.6b		
JMA	IV	24 10 45 14.1–.10	38.66N	142.04E	44–1	3.8		
IDC	IV	24 10 45 14.1–3.7	38.61N	141.98E	40–33	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s178.00000°,δ15.00000°,λ68.00000°. NP2:ϕ_s20.00000°,δ76.00000°,λ96.00000°. $M_0$6.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.0km az=143.6.
JMA Event type fe.
IDC Error ellipse: s-maj=23.6km s-min=17.8km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 10 49 37.1–1.1**	**38.47N–.05**	**141.89E–.08**	**53–9**	**3.6b**	**45**	**0-89**
NIED	IV	24 10 49 00	38.50N	141.80E	62	4.0W		**¶17201956**
ISCJB	IV	24 10 49 36.3–.61	38.48N–.04	141.84E–.07	62–4	3.6b		
JMA	IV	24 10 49 37.1	38.50N	141.85E	56–1	4.1		
IDC	IV	24 10 49 39.0–2.2	38.44N	141.77E	72–21	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s308.00000°,δ15.00000°,λ43.00000°. NP2:ϕ_s175.00000°,δ80.00000°,λ101.00000°. $M_0$9.60000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.2km az=21.7.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=15.2km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 11 03 38.1–1.0**	**36.89N–.03**	**140.66E–.05**	**9–7**	**3.6b**	**32**	**0-91**
NIED	IV	24 11 03 00	36.90N	140.70E	5	3.7W		**¶17201957**
ISCJB	IV	24 11 03 37.2–.66	36.87N–.03	140.80E–.05	13–4	3.6b		
JMA	IV	24 11 03 38.0	36.89N	140.68E	7–1	3.8		
IDC	IV	24 11 03 43.4–2.4	36.83N	140.60E	51–23	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s341.00000°,δ25.00000°,λ-117.00000°. NP2:ϕ_s190.00000°,δ67.00000°,λ-78.00000°. $M_0$3.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.0km az=21.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s300.00000°,δ55.00000°,λ-117.00000°. NP2:ϕ_s162.00000°,δ43.00000°,λ-57.00000°. Principal axes: T Plg6.0000°,Azm49.0000°; N Plg22.0000°,Azm317.0000°; P Plg67.0000°,Azm154.0000°
IDC Error ellipse: s-maj=25.4km s-min=12.7km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 11 07 34.6–1.0**	**35.72N–.04**	**140.98E–.06**	**16–6**	**3.3b**	**21**	**0-65**
NIED	IV	24 11 07 00	35.70N	141.00E	14	3.8W		**¶17201959**
ISCJB	IV	24 11 07 32.4–.98	35.74N–.04	141.13E–.07	16–7	3.3s,3.2b		
IDC	IV	24 11 07 32.5–1.2	35.63N	141.05E	0	3.5,3.4L		
JMA	IV	24 11 07 33.9–.20	35.70N	141.02E	21–1	3.6,3.4L		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s222.00000°,δ83.00000°,λ4.00000°. NP2:ϕ_s131.00000°,δ86.00000°,λ173.00000°. $M_0$4.82000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=171.3.
IDC Error ellipse: s-maj=28.2km s-min=18.6km az=84.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC	**IV**	**24 11 50 16.8–1.1**	**37.07N–.05**	**140.81E–.05**	**4–6**	**3.4b**	**21**	**0-57**
ISCJB	IV	24 11 50 16.7–.88	37.13N–.03	140.87E–.06	2–5	3.4b		**¶600598117**
IDC	IV	24 11 50 16.3–1.5	36.98N	141.06E	0	3.6,3.3		
JMA	IV	24 11 50 17.4	37.13N	140.79E	3–1	3.1,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.5km az=23.4.
IDC Error ellipse: s-maj=33.9km s-min=26.7km az=151.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**24 12 20 56.6–.91**	**37.13N–.03**	**140.80E–.04**	**3–5**	**3.8s,3.5b**	**31**	**0-147**
NIED	IV	24 12 20 00	37.10N	140.80E	5	3.6W,3.5b		**¶16456681**
ISCJB	IV	24 12 20 55.5–.66	37.13N–.03	140.87E–.05	5–3	3.6s,3.5b		
IDC	IV	24 12 20 55.5–.77	37.03N	140.83E	0	3.8,3.6		
JMA	IV	24 12 20 56.5	37.13N	140.79E	4–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s29.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s201.00000°,δ58.00000°,λ-95.00000°. $M_0$2.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=18.6.

IDC Error ellipse: s-maj=19.9km s-min=17.5km az=120.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s210.00000°,δ46.00000°,λ-98.00000°. NP2:ϕ_s42.00000°,δ44.00000°,λ-82.00000°. Principal axes: T Plg1.0000°,Azm306.0000°; N Plg6.0000°,Azm216.0000°; P Plg84.0000° ,Azm45.0000°

(400) Central Mediterranean Sea

ISC	**IV**	**24 13 02 14.3–1.0**	**35.95N–.04**	**14.82E–.04**	**11–7**	**3.6b**	**166**	**0-74**
ISCJB	IV	24 13 02 12.4–.75	35.82N–.03	14.89E–.03	19–5	3.4b,2.7s		**¶16453013**
NEIC	IV	24 13 02 12.0	35.82N	14.88E	20	4.1L,2.7s		
ROM	IV	24 13 02 12.0–.31	35.83N	14.91E	10	4.3L,2.7s		
IDC	IV	24 13 02 13.2–1.1	36.00N	14.75E	0	3.6,3.6		
CSEM	IV	24 13 02 13.2–.41	35.84N	14.84E	15	4.1L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=153.8.
NEIC Event type fe. Felt [III] at Birkirkara and Sliema. Also felt at Attard, Balzan, Birzebugia, Bormla, Dingli, Ghaxaq, Gudja, Gzira, Marsascala, Mqabba, Naxxar, Qormi, Rabat, San Gwann, Swieqi, Tarxien, Valletta, Xghajra, Zabbar and Zebbug. Felt in southeastern Sicily. After ROM.
ROM Event type ke. Error ellipse: s-maj=4.7km s-min=1.7km az=146.0.
IDC Error ellipse: s-maj=19.7km s-min=16.3km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=4.6km az=164.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 14 34 02.9–.77**	**37.97N–.04**	**141.80E–.05**	**50–7**	**4.4b,3.0s**	**196**	**1-144**
MOS	IV	24 14 33 59.5–1.0	37.98N	141.84E	33	4.6b,3.0s		**¶16453017**
NIED	IV	24 14 34 00	38.00N	141.60E	50	4.2W,3.0s		
BJI	IV	24 14 34 00.5	37.87N	141.90E	64	4.9b,4.6b		
ISCJB	IV	24 14 34 02.0–.43	37.99N–.02	141.74E–.04	56–3	4.4b,3.1s		
JMA	IV	24 14 34 03.4–.10	37.97N	141.65E	47–1	4.2,3.1s		
IDC	IV	24 14 34 03.4–1.3	38.00N	141.68E	47–12	4.3,4.1		
NEIC	IV	24 14 34 04.6–.50	38.03N	141.69E	62–4	4.6b,4.1		

ISC Event type se.
MOS Error ellipse: s-maj=7.8km s-min=5.4km az=100.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ20.00000°,λ111.00000°. NP2:ϕ_s1.00000°,δ71.00000°,λ83.00000°. $M_0$2.65000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=7.7km az=99.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=113.0.

(115) Near coast of Peru

ISC	**IV**	**24 14 51 32.8–.67**	**13.79S–.10**	**76.2W–.10**	**49**	**4.1b**	**28**	**2-146**
ISCJB	IV	24 14 51 31.0–.75	13.77S–.09	76.2W–.10	49	4.2b		**¶16681481**
NEIC	IV	24 14 51 33.4–.59	13.67S	76.15W	48	4.2		
IDC	IV	24 14 51 33.6–.66	13.75S	76.51W	50–5	4.0,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=17.6km s-min=8.2km az=139.4.
NEIC Event type fe. Error ellipse: s-maj=18.0km s-min=10.4km az=224.0. Felt [III] at Chincha Alta, Pisco and Tambo de Mora.
IDC Error ellipse: s-maj=19.4km s-min=9.1km az=69.0.

(232) Western Honshu

JMA	**IV**	**24 14 56 57.8**	**34.86N**	**136.82E**	**40–1**	**3.1**	
							¶600598242

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s216.00000°,δ79.00000°,λ-11.00000°. NP2:ϕ_s308.00000°,δ79.00000°,λ-169.00000°. Principal axes: T Plg0.0000°,Azm262.0000°; N Plg75.0000°,Azm352.0000°; P Plg15.0000° ,Azm172.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 15 13 24.5–1.9**	**39.26N–.05**	**142.27E–.10**	**33–12**	**3.3b**	**20**	**0-67**
ISCJB	IV	24 15 13 24.4–1.1	39.24N–.04	142.3E–.10	48–8	3.4b		**¶17201969**
JMA	IV	24 15 13 25.4–.10	39.28N	142.24E	42–1	3.4		
IDC	IV	24 15 13 30.9–2.2	39.19N	142.08E	92–20	3.4,3.2		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=7.1km az=9.7.
JMA Event type fe.
IDC Error ellipse: s-maj=28.0km s-min=14.3km az=103.0.

(227) Eastern Honshu

ISC	**IV**	**24 16 41 43.8–1.1**	**37.08N–.04**	**140.84E–.06**	**15–5**	**3.4b**	**20**	**0-69**
IDC	IV	24 16 41 41.7–1.5	37.52N	140.92E	0	4.3,4.3s		**¶17201971**
JMA	IV	24 16 41 45.5	37.09N	140.75E	6–1	3.1,4.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=34.2km s-min=22.9km az=75.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**IV**	**24 17 43 12.6–1.0**	**37.09N–.03**	**140.63E–.05**	**6–10**		**21**	**0-57**
IDC	IV	24 17 43 11.5–1.7	36.98N	140.86E	0	3.7,3.6b		**¶17201973**
ISCJB	IV	24 17 43 12.6–.55	37.08N–.03	140.70E–.05	11–4	3.5b,3.6b		
JMA	IV	24 17 43 12.8	37.08N	140.66E	9–1	3.3,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=27.6km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=27.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s159.00000°,δ49.00000°,λ-111.00000°. NP2:ϕ_s10.00000°,δ45.00000°,λ-67.00000°. Principal axes: T Plg2.0000°,Azm264.0000°; N Plg16.0000°,Azm173.0000°; P Plg74.0000° ,Azm1.0000°

(235) Kyushu

ISC	**IV**	**24 17 48 22.5–.88**	**33.01N–.04**	**130.70E–.05**	**11–6**	**3.2b**	**19**	**0-72**
NIED	IV	24 17 48 00	33.00N	130.70E	8	4.0W		**¶16456684**
IDC	IV	24 17 48 20.2–.91	32.99N	130.59E	0	3.5,3.4		
ISCJB	IV	24 17 48 21.3–.52	33.01N–.04	130.71E–.06	20–4	3.2b,2.8s		
JMA	IV	24 17 48 22.0	33.03N	130.73E	12–1	4.1,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ67.00000°,λ-18.00000°. NP2:ϕ_s245.00000°,δ74.00000°,λ-156.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=6.3km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=6.9km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s329.00000°,δ82.00000°,λ-14.00000°. NP2:ϕ_s60.00000°,δ77.00000°,λ-172.00000°. Principal axes: T Plg4.0000°,Azm15.0000°; N Plg74.0000°,Azm120.0000°; P Plg15.0000° ,Azm284.0000°

(229) Off east coast of Honshu

ISC	**IV**	**24 19 49 37.3–.61**	**40.33N–.04**	**143.70E–.05**	**23–3**	**4.5b,4.0s**	**254**	**1-146**
NIED	IV	24 19 49 00	40.30N	143.70E	26	4.5W,4.0s		**¶16453174**
IDC	IV	24 19 49 33.5–.53	40.25N	143.79E	0	4.6L,4.4		
JMA	IV	24 19 49 34.5–.30	40.34N	143.70E	10–4	4.4,4.4		
ISCJB	IV	24 19 49 35.1–.81	40.31N–.03	143.70E–.03	17–5	4.4b,4.0s		
MOS	IV	24 19 49 37.3–1.2	40.31N	143.69E	33	4.6b,4.0s		
BJI	IV	24 19 49 39.7	40.38N	143.42E	45	4.9b,4.6b		
NEIC	IV	24 19 49 39.7–.71	40.30N	143.62E	41–6	4.6b,4.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ41.00000°,λ81.00000°. NP2: ϕ_s197.00000°,δ49.00000°,λ98.00000°. $M_0$6.58000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=136.6.
MOS Error ellipse: s-maj=7.7km s-min=5.0km az=97.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.5km az=135.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 20 54 25.5–1.1**	**35.75N–.07**	**140.73E–.09**	**7–11**	**3.6b**	**14**	**0-56**
NIED	IV	24 20 54 00	35.80N	140.80E	5	3.5W		**¶600598530**
ISCJB	IV	24 20 54 25.5–.66	35.77N–.05	140.74E–.07	9–6	3.5b		
JMA	IV	24 20 54 25.7	35.78N	140.78E	7–1	3.6		
IDC	IV	24 20 54 29.0–2.5	35.20N	139.89E	0	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ38.00000°,λ-160.00000°. NP2:ϕ_s205.00000°,δ78.00000°,λ-54.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.5km az=147.0.
JMA Event type fe.
IDC Error ellipse: s-maj=77.0km s-min=23.9km az=63.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 21 06 36.8–.39**	**35.25N–.03**	**141.02E–.03**	**29–2**	**5.1b,4.8s**	**1124**	**0-152**
NIED	IV	24 21 06 00	35.20N	141.30E	20	5.0W,4.8s		**¶16453175**
IDC	IV	24 21 06 32.0–.38	35.18N	141.13E	0	5.0,4.9		
JMA	IV	24 21 06 34.3–.10	35.23N	141.24E	40–2	5.1,4.9		
BJI	IV	24 21 06 34.9	35.29N	141.05E	37	4.9,4.9b		
MOS	IV	24 21 06 36.3–.91	35.24N	140.95E	35	5.3b,4.7s		
ISCJB	IV	24 21 06 36.4–.37	35.21N–.02	140.92E–.02	35–3	5.0b,4.8s		
NEIC	IV	24 21 06 38.6–.54	35.20N	140.93E	41–4	5.1b,4.8s		
GCMT	IV	24 21 06 38.6–.40	35.07N	141.02E	25	5.0W,4.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ29.00000°,λ-169.00000°. NP2:ϕ_s216.00000°,δ85.00000°,λ-62.00000°. $M_0$3.62000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=9.0km az=89.0.
JMA Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=108.6.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=172.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=153.0. Recorded [2 JMA] in Chiba, Ibaraki and Saitama.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c30; s62,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.54±.14 $M_{\theta\theta}$-2.32±.09; $M_{\phi\phi}$0.78±.11; $M_{r\theta}$3.11±.19; $M_{\theta\phi}$0.80±.08; $M_{\phi r}$0.42±.23; Best double couple: NP1:ϕ_s83.00000°,δ75.00000° ,λ73.00000°. NP2:ϕ_s314.00000°,δ22.00000°,λ139.00000°. Principal axes: T 3.4840,Plg56.0000°,Azm331.0000°; N 0.6160,Plg17.0000°,Azm87.0000° ; P -4.1000,Plg28.0000°,Azm187.0000° $M_0$3.79200×10^{16}

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 22 44 13.2–1.5**	**36.42N–.05**	**140.85E–.07**	**27–10**	**3.7b**	**32**	**0-78**
NIED	IV	24 22 44 00	36.40N	141.00E	59	4.2W		**¶17201991**
ISCJB	IV	24 22 44 11.6–.93	36.38N–.04	141.04E–.07	34–8	3.6b		
JMA	IV	24 22 44 12.1–.10	36.37N	140.97E	38–1	3.6		
IDC	IV	24 22 44 14.4–1.8	36.34N	141.01E	42–16	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ13.00000°,λ77.00000°. NP2:ϕ_s116.00000°,δ77.00000°,λ93.00000°. $M_0$2.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.7km az=19.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.2km s-min=9.6km az=79.0.

(268) Sulawesi

ISC	**IV**	**24 23 07 54.7–.34**	**4.48S–.03**	**122.86E–.03**	**28–2**	**5.8s,5.7b**	**901**	**3-174**
BJI	IV	24 23 07 48.6	4.60S	122.75E	10	5.9s,5.8		**¶16453181**
IDC	IV	24 23 07 49.6–.33	4.37S	122.75E	0	5.7,5.7s		
ISCJB	IV	24 23 07 51.6–.50	4.41S–.02	122.94E–.02	19–3	5.7s,5.6b		
NEIC	IV	24 23 07 51.5–.19	4.59S	122.77E	8	6.1W,6.1W		
NEIC	IV	24 23 07 51.0–.00	4.59S	122.81E	15	6.1W,6.1W		
GCMT	IV	24 23 07 51.5–.10	4.27S	122.80E	15	6.1W,6.1W		
KLM	IV	24 23 07 52.1	4.38S	123.03E	10	6.3L,6.3s		
DJA	IV	24 23 07 54.0–.60	4S–2.0	123E–1.0	12–5	6.2b,6.1		
MOS	IV	24 23 07 54.1–1.9	4.42S	122.86E	33	5.9b,5.7s		
NEIC	IV	24 23 08 09.7–.00	4.02S	122.89E	10	5.9b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=169.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=57.0. Felt [IV] at Kendari. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13 $M_{\theta\theta}$1.31 $M_{\phi\phi}$-1.44 $M_{r\theta}$0.29 $M_{\theta\phi}$-0.69 $M_{\phi r}$0.05 Best double couple: NP1:ϕ_s149.00000°,δ80.00000° ,λ5.00000°. NP2:ϕ_s58.00000°,δ85.00000°,λ169.00000°. Principal axes: T 1.5200,Plg11.0000°,Azm13.0000°; N 0.0800,Plg78.0000°,Azm212.0000° ; P -1.6100,Plg4.0000°,Azm104.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.30 $M_{\theta\theta}$1.18 $M_{\phi\phi}$-0.88 $M_{r\theta}$1.38 $M_{\theta\phi}$-0.35 $M_{\phi r}$0.76 Best double couple: NP1:ϕ_s241.00000° ,δ84.00000°,λ-123.00000°. NP2:ϕ_s142.00000°,δ34.00000°,λ-9.00000°. Principal axes: T 2.0100,Plg31.0000°,Azm357.0000°; N -0.1600,Plg33.0000°,Azm244.0000° ; P -1.8500,Plg40.0000°,Azm119.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c295; s137,c466;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.26±.01 $M_{\theta\theta}$1.67±.01; $M_{\phi\phi}$-1.41±.01; $M_{r\theta}$0.66±.03; $M_{\theta\phi}$-0.47±.01; $M_{\phi r}$0.80±.03; Best double couple: NP1:ϕ_s236.00000°,δ81.00000°,λ-148.00000°. NP2:ϕ_s141.00000° ,δ58.00000°,λ-10.00000°. Principal axes: T 1.8870,Plg15.0000°,Azm4.0000° ; N 0.0730,Plg57.0000°,Azm249.0000°; P -1.9600,Plg28.0000°,Azm103.0000° $M_0$1.92400×10^{18}
MOS Error ellipse: s-maj=7.6km s-min=4.4km az=111.8.
NEIC Event type se. Moment Tensor Solution. s90 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.12 $M_{\theta\theta}$1.38 $M_{\phi\phi}$-1.26 $M_{r\theta}$0.51 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s138.00000° ,δ55.00000°,λ-17.00000°. NP2:ϕ_s238.00000°,δ76.00000°,λ-144.00000°. Principal axes: T 1.5400,Plg14.0000°,Azm4.0000°; N 1.1000,Plg52.0000°,Azm256.0000° ; P -2.6400,Plg35.0000°,Azm103.0000° $M_0$2.10000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**IV**	**24 23 20 42.9–1.7**	**37.23N–.04**	**141.56E–.06**	**11–9**	**3.9b**	**38**	**1-146**
IDC	IV	24 23 20 41.3–1.4	37.28N	141.67E	0	3.9,3.8		**¶16577882**
ISCJB	IV	24 23 20 42.2–1.1	37.20N–.04	141.61E–.06	17–6	3.7b,3.8		
JMA	IV	24 23 20 44.4–.20	37.22N	141.47E	34–2	3.8,3.8		
NEIC	IV	24 23 20 46.6–1.4	36.92N	141.61E	50–8	4.0b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=25.4km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=28.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=22.0km s-min=8.7km az=149.0.

(268) Sulawesi

ISC	**IV**	**24 23 25 14.3–.30**	**4.20S–.04**	**122.64E–.04**	**35**	**5.2s,4.7b**	**164**	**3-157**
BJI	IV	24 23 25 08.2	4.20S	122.60E	10	5.4b,5.3s		**¶16453182**
IDC	IV	24 23 25 09.1–.44	4.10S	122.55E	0	4.6,4.5		
NEIC	IV	24 23 25 09.6–2.6	4.13S	122.63E	6–16	4.8b,4.5		
ISCJB	IV	24 23 25 11.9–.18	4.16S–.03	122.66E–.02	33	5.3s,4.7b		
MOS	IV	24 23 25 12.2–1.3	4.18S	122.65E	33	4.9b,4.7b		
DJA	IV	24 23 25 12.3–.20	4S–2.0	123E–2.0	10	6.5b,6.3		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Kendari.
ISCJB Event type fe.

(115) Near coast of Peru

NEIC	**IV**	**25 00 25 05.0**	**13.73S**	**76.38W**	**48**	**4.0b**		
								¶16684737

NEIC Event type fe. Felt [II] at Pisco. After ARE.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 00 46 08.4–1.5**	**38.76N–.05**	**142.1E–.10**	**44–12**	**4.0b**	**35**	**0-78**
ISCJB	IV	25 00 46 08.1–.87	38.77N–.05	142.1E–.10	56–6	4.0b,4.0s		**¶16577886**
JMA	IV	25 00 46 08.7–.10	38.80N	142.11E	43–2	3.9,4.0s		
IDC	IV	25 00 46 11.1–2.2	38.65N	142.04E	73–21	4.0s,4.0		
NEIC	IV	25 00 46 12.4–.76	38.68N	142.02E	85–6	4.4b,4.0		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.5km az=12.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=12.8km az=90.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.3km az=118.0.

(80) Panama-Costa Rica border region

ISC	**IV**	**25 00 49 21.4–.63**	**8.24N–.06**	**82.86W–.04**	**20–2**	**4.5b**	**403**	**1-153**
IDC	IV	25 00 49 20.1–1.5	8.87N	82.41W	0	4.3,4.0		**¶16476076**
ISCJB	IV	25 00 49 22.3–.28	8.51N–.04	82.73W–.03	28	4.5b,4.0		
NEIC	IV	25 00 49 22.6–2.1	8.24N	82.83W	26–15	4.5,4.5b		
CASC	IV	25 00 49 22.9–3.0	8.41N	82.82W	6–11	4.5,3.7L		
BJI	IV	25 00 49 23.4	8.30N	82.90W	29	5.0b,4.9s		

ISC Event type fe.
IDC Error ellipse: s-maj=57.4km s-min=16.0km az=31.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=2.7km az=26.1.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=5.9km az=213.0. Felt [III] at Boquete and [II] at David, Panama. Also felt at Los Algarrobos. Felt at Burica, Corredor, Laurel and San Vito, Costa Rica.
CASC Error ellipse: s-maj=10.3km s-min=4.7km az=-1.0.

(717) Afghanistan-Tajikistan border region

ISC	**IV**	**25 00 54 33.6–.36**	**36.23N–.03**	**72.21E–.03**	**97–3**	**5.0b**	**812**	**2-151**
ISCJB	IV	25 00 54 30.5–.34	36.25N–.01	72.22E–.02	79–3	5.0b		**¶16456691**
BJI	IV	25 00 54 31.2	36.25N	72.28E	78	5.1b,5.1b		
NEIC	IV	25 00 54 33.0–.49	36.23N	72.18E	90–4	5.0b,5.1b		
MOS	IV	25 00 54 33.4–.93	36.27N	72.25E	106	5.1b,5.1b		

IDC IV 25 00 54 34.3–1.7 36.24N 72.16E 102–15 5.0,4.7
NNC IV 25 00 54 38.9–1.5 36.62N 72.13E 167–13 5.5,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.1km az=39.6.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=188.0. Felt at Peshawar. Also felt at Asadabad and Kabul, Afghanistan.
MOS Error ellipse: s-maj=4.9km s-min=3.3km az=118.0.
IDC Error ellipse: s-maj=9.5km s-min=7.0km az=177.0.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=11.7km az=22.0.

(235) Kyushu

JMA IV 25 02 44 17.9 33.03N 130.73E 12 2.7 ¶600598691

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 25 03 16 08.0–1.5 38.42N–.05 141.95E–.09 20–8 21 0-68
JMA IV 25 03 16 10.4–.10 38.44N 141.79E 53–1 3.8 **¶600598700**
IDC IV 25 03 16 12.1–1.6 39.17N 140.45E 0 3.7,3.7b
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=68.0km s-min=24.0km az=97.0.

(116) Central Peru

ISC IV 25 04 30 57.7–.40 11.88S–.04 72.16W–.04 10 4.7b 77 2-166
ISCJB IV 25 04 30 56.9–.28 11.93S–.04 72.13W–.04 10 4.5b,3.5s **¶16544901**
IDC IV 25 04 30 56.7–.63 11.88S 72.10W 0 4.3,4.2
NEIC IV 25 04 31 00.5–1.4 11.98S 72.18W 24–10 4.8b,4.7L
BJI IV 25 04 31 01.5 11.90S 72.10W 25 5.3,5.3s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.9km az=139.9.
IDC Error ellipse: s-maj=21.4km s-min=12.3km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.1km az=222.0. Felt at Urcos.

(228) Near east coast of eastern Honshu

ISC IV 25 04 56 59.8–.61 37.61N–.04 141.67E–.06 34–1 3.7b 39 1-90
ISCJB IV 25 04 56 59.6–.96 37.60N–.04 141.7E–.10 49–8 3.8b **¶17202017**
JMA IV 25 04 57 00.9–.10 37.63N 141.61E 44–2 4.0
IDC IV 25 04 57 01.5–.60 37.55N 141.63E 51–5 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.0km az=7.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=10.7km az=104.0.

(228) Near east coast of eastern Honshu

JMA IV 25 05 26 20.1–.10 35.46N 140.98E 19–2 3.7
NIED IV 25 05 26 00 35.50N 141.10E 17 3.6W **¶600598778**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S98.00000°,δ54.00000°,λ-138.00000°. NP2:ϕ_S340.00000°,δ57.00000°,λ-44.00000°. $M_0$2.57000×10^{14}

(228) Near east coast of eastern Honshu

JMA IV 25 06 11 40.8–.10 37.38N 141.33E 34–1 3.5 ¶600598792

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 25 06 41 23.1–.69 36.70N–.04 141.81E–.04 26–4 4.7b,4.1s 347 1-147
NIED IV 25 06 41 00 36.80N 141.70E 23 4.6W,4.1s **¶16456704**
BJI IV 25 06 41 23.2 36.81N 141.70E 43 4.9b,4.7b
ISCJB IV 25 06 41 23.4–.51 36.75N–.03 141.71E–.03 36–3 4.6b,4.0s
JMA IV 25 06 41 23.5–.20 36.76N 141.69E 47–3 4.5,4.0s
MOS IV 25 06 41 24.0–.91 36.84N 141.62E 38 5.0b,4.0s
NEIC IV 25 06 41 25.4–.59 36.74N 141.66E 39–5 4.6b,4.0s
IDC IV 25 06 41 25.6–1.9 36.75N 141.72E 42–16 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S209.00000°,δ17.00000°,λ97.00000°. NP2:ϕ_S22.00000°,δ73.00000°,λ88.00000°. $M_0$8.26000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=43.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=4.3km az=105.3.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=121.0.
IDC Error ellipse: s-maj=13.1km s-min=10.0km az=116.0.

(228) Near east coast of eastern Honshu

ISC IV 25 08 31 42.9–4.0 38.76N–.05 142.21E–.07 17–25 3.6b 29 1-89
NIED IV 25 08 31 00 38.70N 142.20E 62 4.5W **¶17202027**
JMA IV 25 08 31 43.8–.10 38.74N 142.21E 31–1 3.8
IDC IV 25 08 31 48.0–2.7 38.77N 142.05E 61–24 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S114.00000°,δ45.00000°,λ63.00000°. NP2:ϕ_S329.00000°,δ51.00000°,λ114.00000°. $M_0$7.41000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=24.1km s-min=15.8km az=107.0.

(228) Near east coast of eastern Honshu

ISC IV 25 09 00 20.1–.42 36.24N–.03 141.07E–.03 26–2 5.0b,4.5s 806 1-152
NIED IV 25 09 00 00 36.20N 141.10E 20 5.0W,4.5s **¶602557925**
IDC IV 25 09 00 15.8–.40 36.16N 140.95E 0 4.7,4.6L
BJI IV 25 09 00 16.6 36.05N 141.09E 26 5.0b,4.8b
JMA IV 25 09 00 18.5–.10 36.17N 141.03E 39–1 5.0,4.8b
ISCJB IV 25 09 00 19.6–.53 36.31N–.02 140.95E–.02 29–3 4.9b,4.5s
MOS IV 25 09 00 20.9–.83 36.54N 140.89E 30 5.2b,4.5s
GCMT IV 25 09 00 21.6–.20 36.25N 140.91E 27–0 5.1W,4.5s
NEIC IV 25 09 00 21.6–1.2 36.22N 140.89E 34–8 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S26.00000°,δ26.00000°,λ-70.00000°. NP2:ϕ_S184.00000°,δ66.00000°,λ-99.00000°. $M_0$3.54000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.0km az=88.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=165.2.
MOS Error ellipse: s-maj=6.6km s-min=4.4km az=105.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c53; s87,c137; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.05±.19 $M_{\theta\theta}$0.43±.13; $M_{\phi\phi}$3.62±.13; $M_{r\theta}$0.82±.24; $M_{\theta\phi}$1.53±.09; $M_{\phi r}$3.73±.23; Best double couple: NP1:ϕ_S195.00000°,δ66.00000°,λ-95.00000°. NP2:ϕ_S29.00000°,δ24.00000°,λ-78.00000°. Principal axes:
T 5.7010,Plg21.0000°,Azm290.0000°; N -0.1300,Plg5.0000°,Azm198.0000°
; P -5.5710,Plg68.0000°,Azm95.0000° $M_0$5.63600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=144.0. Recorded [4 JMA] in Chiba and Ibaraki.

(259) Mindanao

MAN IV 25 09 44 29 8.95N 125.62E 15 4.1b,2.9L ¶601669075

MAN Event type fe. INTENSITY I - BUTUAN CITY.

(228) Near east coast of eastern Honshu

ISC IV 25 10 22 36.4–1.5 36.26N–.04 141.01E–.06 5–10 3.8b 28 1-147
NIED IV 25 10 22 00 36.20N 141.00E 20 3.7W **¶16505526**
IDC IV 25 10 22 35.3–.74 36.11N 141.08E 0 3.9,3.7
JMA IV 25 10 22 38.2 36.16N 140.99E 39–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S32.00000°,δ32.00000°,λ-62.00000°. NP2:ϕ_S180.00000°,δ62.00000°,λ-106.00000°. $M_0$4.21000×10^{14}
IDC Error ellipse: s-maj=23.3km s-min=18.1km az=114.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 25 10 29 53.6–1.0 36.24N–.05 140.98E–.09 31 3.6b 16 1-147
NIED IV 25 10 29 00 36.20N 141.00E 26 3.7W **¶17202039**
IDC IV 25 10 29 50.1–.75 36.05N 141.04E 0 3.8,3.7
ISCJB IV 25 10 29 53.1–.55 36.23N–.04 141.07E–.06 31 3.6b,3.4s
JMA IV 25 10 29 53.0–.10 36.17N 141.02E 39–1 3.7,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S30.00000°,δ36.00000°,λ-92.00000°. NP2:ϕ_S212.00000°,δ54.00000°,λ-89.00000°. $M_0$3.92000×10^{14}
IDC Error ellipse: s-maj=20.6km s-min=19.2km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=8.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 25 11 16 43.6–.66 35.36N–.05 140.99E–.07 33 3.7b,3.0s 28 0-91
NIED IV 25 11 16 00 35.40N 141.10E 29 3.9W,3.0s **¶17202043**
IDC IV 25 11 16 39.4–.69 35.33N 141.07E 0 3.9,3.8
ISCJB IV 25 11 16 42.2–.49 35.31N–.03 141.03E–.06 33 3.7b,3.0s
JMA IV 25 11 16 42.4–.10 35.39N 140.99E 23–2 3.9,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S253.00000°,δ34.00000°,λ-151.00000°. NP2:ϕ_S138.00000°,δ75.00000°,λ-60.00000°. $M_0$7.89000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=14.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=173.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(95) Windward Islands

ISC IV 25 13 10 23.1–.81 14.03N–.03 60.12W–.05 69–7 4.5b 440 1-165
IDC IV 25 13 10 19.3–1.9 14.01N 60.01W 33–13 4.9L,4.2 **¶602602110**
NEIC IV 25 13 10 21.8 14.04N 60.10W 70 4.6b,4.2
BJI IV 25 13 10 21.9 14.10N 60.10W 67 4.6b,4.2
TRN IV 25 13 10 21.8 14.03N 60.11W 68 4.3,4.2
ISCJB IV 25 13 10 22.3–.30 14.01N–.02 60.14W–.03 76–2 4.4b,4.2
FUNV IV 25 13 10 23.7 13.91N 59.80W 72 4.3W,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=12.8km az=93.0.
NEIC Event type fe. Felt [IV] at Le Robert and [II] at Fort-de-France, Martinique. Also felt at Ducos, Le Francois, Le Lamentin, Saint-Pierre, Sainte-Luce, Sainte-Marie and Schoelcher. Felt at Castries, Saint Lucia and at Biabou, Saint Vincent. After TRN.
TRN Event type fe. Felt in Saint Lucia MMI III, and St. VincentMMI II and III.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.6km az=171.4.

(227) Eastern Honshu

ISC IV 25 14 51 12.6–.88 36.66N–.03 139.54E–.04 16–5 3.9b 46 0-82
NIED IV 25 14 51 00 36.70N 139.60E 8 3.7W **¶16707971**
IDC IV 25 14 51 10.0–.61 36.65N 139.59E 0 4.0,3.9
ISCJB IV 25 14 51 11.9–.48 36.65N–.03 139.62E–.04 24–3 3.9b,3.9
JMA IV 25 14 51 12.4 36.67N 139.58E 10–1 3.8,3.9
NEIC IV 25 14 51 15.7–.88 36.60N 139.51E 40–8 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S157.00000°,δ36.00000°,λ35.00000°. NP2:ϕ_S37.00000°,δ70.00000°,λ121.00000°. $M_0$4.41000×10^{14}
IDC Error ellipse: s-maj=13.6km s-min=10.8km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=27.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S33.00000°,δ66.00000°,λ119.00000°. NP2:ϕ_S160.00000°,δ37.00000°,λ43.00000°. Principal axes: T Plg59.0000°,Azm344.0000°; N Plg26.0000°,Azm200.0000°; P Plg16.0000°,Azm102.0000°
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.5km az=96.0.

(228) Near east coast of eastern Honshu

ISC IV 25 15 08 16.4–1.6 35.68N–.05 141.21E–.08 26–10 3.8b 25 0-75
ISCJB IV 25 15 08 16.6–.96 35.69N–.05 141.20E–.09 37–8 3.6b **¶16505529**
JMA IV 25 15 08 18.8–.10 35.74N 141.01E 35–1 3.1
IDC IV 25 15 08 19.1–2.5 35.73N 141.21E 42–21 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.6km az=170.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=41.1km s-min=16.1km az=76.0.

(228) Near east coast of eastern Honshu

ISC IV 25 15 13 19.4–.90 36.94N–.03 140.68E–.04 12–5 4.1b,3.2s 95 0-147
NIED IV 25 15 13 00 36.90N 140.60E 5 4.0W,3.2s **¶600599066**
IDC IV 25 15 13 17.9–.53 36.96N 140.62E 0 4.2,4.1
ISCJB IV 25 15 13 18.7–.49 36.93N–.02 140.79E–.04 18–3 4.1b,3.5s
JMA IV 25 15 13 19.5 36.95N 140.63E 5–2 4.3,3.5s
MOS IV 25 15 13 20.1–1.2 37.00N 140.78E 28 4.3b,3.5s
NEIC IV 25 15 13 24.0–.59 36.97N 140.56E 43–5 4.3b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S246.00000°,δ44.00000°,λ-91.00000°. NP2:ϕ_S67.00000°,δ46.00000°,λ-89.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=11.9km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.4km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S254.00000°,δ55.00000°,λ-107.00000°. NP2:ϕ_S102.00000°,δ39.00000°,λ-68.00000°. Principal axes: T Plg8.0000°,Azm356.0000°; N Plg14.0000°,Azm264.0000°; P Plg74.0000°,Azm116.0000°
MOS Error ellipse: s-maj=10.1km s-min=6.6km az=85.7.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=118.0.

(228) Near east coast of eastern Honshu

ISC IV 25 15 59 24.9–1.3 38.41N–.06 142.0E–.10 60–10 3.9b 39 1-146
NIED IV 25 15 59 00 38.40N 141.90E 59 3.8W **¶16505530**
ISCJB IV 25 15 59 23.9–.79 38.41N–.04 142.0E–.10 67–6 3.8b
JMA IV 25 15 59 25.1–.10 38.42N 141.92E 63–1 4.0
IDC IV 25 15 59 26.3–2.1 38.39N 141.98E 74–19 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S201.00000°,δ40.00000°,λ84.00000°. NP2:ϕ_S29.00000°,δ50.00000°,λ95.00000°. $M_0$5.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=5.6km az=17.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=13.3km az=97.0.

(162) South Island

WEL IV 25 19 19 52.1–.09 43.57S 172.72E 8–0 3.7L ¶16460254

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(2) Southern Alaska

ISC IV 25 19 29 15.0–.35 59.10N–.04 152.65W–.03 65–2 4.8b 555 0-162
BJI IV 25 19 29 10.7 59.14N 152.75W 57 4.9b,4.9b **¶16459941**
MOS IV 25 19 29 13.2–.83 59.22N 152.94W 59 5.1b,4.9b
ISCJB IV 25 19 29 14.4–.19 59.23N–.02 152.75W–.03 70–1 4.7b,4.9b
NEIC IV 25 19 29 15.9 59.06N 152.53W 57 4.9W,4.9b
IDC IV 25 19 29 15.8–1.9 59.27N 152.84W 66–17 4.6,4.4
GCMT IV 25 19 29 15.9–.30 59.08N 152.76W 82–3 5.0W,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=10.3km s-min=4.3km az=91.5.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=157.0.
NEIC Event type fe. Felt [III] at Anchor Point and Homer. Also felt at King Salmon and Ninilchik. After AEIC. Moment Tensor Solution. s43 Moment tensor: Scale 10^{16}Nm; M_{rr}0.48 $M_{\theta\theta}$-1.79 $M_{\phi\phi}$1.31 $M_{r\theta}$0.67 $M_{\theta\phi}$2.14 $M_{\phi r}$0.78 Best double couple: NP1:ϕ_S340.00000°,δ71.00000°,λ166.00000°. NP2:ϕ_S74.00000°,δ77.00000°,λ20.00000°. Principal axes:
T 2.8300,Plg23.0000°,Azm298.0000°; N 0.0700,Plg66.0000°,Azm106.0000°
; P -2.9000,Plg4.0000°,Azm206.0000° $M_0$2.90000×10^{16}
IDC Error ellipse: s-maj=12.9km s-min=8.9km az=1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c53; s74,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.54±.16 $M_{\theta\theta}$-4.48±.18; $M_{\phi\phi}$2.94±.15; $M_{r\theta}$-0.28±.14; $M_{\theta\phi}$2.18±.12; $M_{\phi r}$1.40±.09; Best double couple: NP1:ϕ_S327.00000°,δ76.00000°,λ157.00000°. NP2:ϕ_S63.00000°,δ68.00000°,λ15.00000°. Principal axes:
T 4.1660,Plg26.0000°,Azm283.0000°; N 0.9690,Plg63.0000°,Azm117.0000°
; P -5.1350,Plg6.0000°,Azm16.0000° $M_0$4.65000×10^{16}

(228) Near east coast of eastern Honshu

ISC IV 25 20 11 28.9–1.9 36.29N–.04 141.35E–.06 9–12 3.9b 44 1-91
NIED IV 25 20 11 00 36.30N 141.30E 41 4.0W **¶16631206**
IDC IV 25 20 11 27.3–.58 36.24N 141.37E 0 4.1L,4.0
NEIC IV 25 20 11 31.8–2.5 36.21N 141.29E 29–18 4.2b,4.0
JMA IV 25 20 11 32.0–.10 36.32N 141.26E 49–2 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S230.00000°,δ37.00000°,λ175.00000°. NP2:ϕ_S324.00000°,δ87.00000°,λ53.00000°. $M_0$1.27000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.3km az=106.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.4km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 25 20 24 37.3–1.5 37.09N–.04 141.18E–.05 9–9 3.5b 29 0-147
NIED IV 25 20 24 00 37.10N 141.10E 26 3.5W **¶602557927**
ISCJB IV 25 20 24 36.0–1.2 37.06N–.04 141.31E–.06 15–8 3.5b
IDC IV 25 20 24 35.5–.76 37.05N 141.33E 0 3.6,3.5
JMA IV 25 20 24 38.8–.10 37.09N 141.09E 32–1 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S83.00000°,δ39.00000°,λ-42.00000°. NP2:ϕ_S208.00000°,δ65.00000°,λ-121.00000°. $M_0$2.30000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.8km az=21.9.
IDC Error ellipse: s-maj=22.0km s-min=15.9km az=114.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 20 51 15.0–1.9**	**35.99N–.07**	**140.74E–.08**	**1–15**	**3.5b**	**15**	**0-65**
NIED	IV	25 20 51 00	35.90N	141.10E	8	3.4W		**¶17202077**
JMA	IV	25 20 51 13.7–.20	35.92N	141.12E	21–2	3.5		
IDC	IV	25 20 51 15.3–1.2	35.89N	140.60E	0	3.5,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ36.00000°,λ-113.00000°. NP2:ϕ_s44.00000°,δ57.00000°,λ-74.00000°. $M_0$1.47000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.9km s-min=21.5km az=55.0.

(229) Off east coast of Honshu

ISC	**IV**	**25 21 14 10.7–.74**	**36.83N–.03**	**142.23E–.03**	**2–4**	**5.0b,4.4s**	**653**	**1-154**
NIED	IV	25 21 14 00	36.90N	142.20E	23	4.9W,4.4s		**¶16459946**
ISCJB	IV	25 21 14 11.0–.78	36.85N–.02	142.18E–.02	10–4	4.9b,4.5s		
IDC	IV	25 21 14 10.9–.48	36.83N	142.12E	0	4.8,4.8		
JMA	IV	25 21 14 12.9–.20	36.87N	142.22E	25–4	5.0,4.8		
BJI	IV	25 21 14 12.1	36.86N	141.72E	7	5.2b,5.0b		
GCMT	IV	25 21 14 14.4–.40	36.84N	142.07E	15	5.1W,5.0b		
NEIC	IV	25 21 14 14.4–1.1	36.85N	142.17E	22–8	4.9b,5.0b		
MOS	IV	25 21 14 14.3–1.0	36.93N	142.12E	31	5.2b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ14.00000°,λ73.00000°. NP2:ϕ_s5.00000°,δ76.00000°,λ94.00000°. $M_0$2.25000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=164.7.
IDC Error ellipse: s-maj=13.8km s-min=11.1km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s65,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.00±.11 $M_{\theta\theta}$0.09±.09; $M_{\phi\phi}$-1.09±.07; $M_{r\theta}$0.53±.27; $M_{\theta\phi}$0.30±.05; $M_{\phi r}$5.02±.24; Best double couple: NP1:ϕ_s6.00000°,δ84.00000°,λ95.00000°. NP2:ϕ_s147.00000°,δ7.00000°,λ51.00000°. Principal axes: T 5.1520,Plg50.0000°,Azm281.0000°; N 0.0200,Plg5.0000°,Azm185.0000° ; P -5.1750,Plg39.0000°,Azm91.0000° $M_0$5.16400×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=138.0.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=109.3.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 21 16 22.5–1.1**	**38.29N–.05**	**141.96E–.07**	**62–9**	**4.5b**	**56**	**1-146**
ISCJB	IV	25 21 16 21.9–.60	38.32N–.04	141.90E–.07	71–4	4.5b		**¶16459947**
JMA	IV	25 21 16 23.2–.10	38.35N	141.87E	64–1	4.5		
NEIC	IV	25 21 16 24.5–.95	38.31N	141.85E	79–8	4.7b		
IDC	IV	25 21 16 24.8–2.6	38.29N	141.88E	79–24	4.5,4.3		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.4km az=20.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.8km az=127.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=19.0km s-min=15.1km az=67.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 21 42 16.0–.87**	**36.73N–.05**	**140.55E–.05**	**14–6**	**3.6b**	**22**	**0-91**
IDC	IV	25 21 42 14.3–.89	36.97N	140.63E	0	3.7,3.5		**¶600599349**
ISCJB	IV	25 21 42 15.5–.82	36.65N–.04	140.73E–.06	18–5	3.5b,3.5		
JMA	IV	25 21 42 17.1	36.70N	140.60E	7–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.5km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.6km az=36.4.
JMA Event type fe.

(110) Peru-Ecuador border region

ISC	**IV**	**25 22 22 10.0–1.2**	**2.78S–.03**	**78.07W–.05**	**8–7**	**4.8b,4.2s**	**315**	**1-152**
ISCJB	IV	25 22 22 08.3–.22	2.89S–.03	78.06W–.04	10	4.8b,4.2s		**¶16459948**
IDC	IV	25 22 22 09.4–.62	2.89S	78.00W	0	4.6,4.4		
IGQ	IV	25 22 22 11	2.66S	78.12W	12–3	4.4b,4.4		
NEIC	IV	25 22 22 16.7–1.0	2.91S	77.63W	41–9	4.8b,4.6		
BJI	IV	25 22 22 21.4	2.90S	77.40W	69	5.4b,5.3s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.3km az=160.1.
IDC Error ellipse: s-maj=26.1km s-min=12.4km az=52.0.
IGQ Error ellipse: s-maj=3.9km s-min=3.1km az=9.1.
NEIC Event type fe. Error ellipse: s-maj=12.0km s-min=5.6km az=61.0. Felt at Banos and Macas, Ecuador.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 22 42 29.9–2.3**	**36.84N–.05**	**140.86E–.10**	**7–15**	**3.5b**	**15**	**0-61**
NIED	IV	25 22 42 00	36.90N	140.70E	5	3.6W		**¶17202086**
IDC	IV	25 22 42 28.7–2.1	36.90N	140.92E	0	3.7,3.7L		
ISCJB	IV	25 22 42 30.3–1.1	36.79N–.04	140.90E–.09	19–6	3.4b,3.4s		
JMA	IV	25 22 42 32.4	36.85N	140.69E	9–1	3.8,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ33.00000°,λ-51.00000°. NP2:ϕ_s138.00000°,δ65.00000°,λ-112.00000°. $M_0$3.06000×10^{14}
IDC Error ellipse: s-maj=43.8km s-min=26.1km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.4km az=21.8.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 23 15 02.0–2.4**	**38.41N–.04**	**142.30E–.07**	**12–13**	**3.8b**	**35**	**1-74**
NIED	IV	25 23 15 00	38.40N	142.20E	26	3.8W		**¶17202089**
JMA	IV	25 23 15 03.7–.10	38.44N	142.25E	29–2	3.8		
IDC	IV	25 23 15 07.2–2.4	38.34N	142.31E	52–22	3.7,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ21.00000°,λ-76.00000°. NP2:ϕ_s297.00000°,δ70.00000°,λ-95.00000°. $M_0$5.40000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=14.2km az=107.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**25 23 24 50.6–.78**	**36.31N–.04**	**141.17E–.06**	**29–4**	**4.4b**	**84**	**1-147**
NIED	IV	25 23 24 00	36.30N	141.10E	38	4.4W		**¶16708010**
ISCJB	IV	25 23 24 50.6–.62	36.32N–.03	141.10E–.06	42–4	4.3b		
JMA	IV	25 23 24 50.8–.10	36.32N	141.06E	48–1	4.1		
NEIC	IV	25 23 24 52.0–.84	36.23N	141.11E	44–7	4.6b		
IDC	IV	25 23 24 54.4–1.7	36.24N	140.99E	62–16	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ18.00000°,λ50.00000°. NP2:ϕ_s31.00000°,δ76.00000°,λ102.00000°. $M_0$3.84000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.8km az=8.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=7.4km az=117.0.
IDC Error ellipse: s-maj=14.5km s-min=10.7km az=86.0.

(224) Hokkaido region

ISC	**IV**	**25 23 26 34.7–.39**	**42.06N–.04**	**142.57E–.03**	**67–3**	**4.8b**	**626**	**0-148**
NIED	IV	25 23 26 00	42.00N	142.60E	59	4.7W		**¶17202090**
BJI	IV	25 23 26 30.5	41.93N	142.74E	62	4.9b,4.9b		
MOS	IV	25 23 26 33.5–1.0	42.09N	142.50E	66	5.2b,4.9b		
ISCJB	IV	25 23 26 33.5–.24	42.05N–.02	142.51E–.03	65–2	4.7b,4.9b		
JMA	IV	25 23 26 34.1–.10	42.02N	142.59E	61–2	4.6,4.9b		
NEIC	IV	25 23 26 35.2–.43	42.05N	142.47E	68–4	4.8b,4.9b		
IDC	IV	25 23 26 36.4–1.3	42.09N	142.53E	80–10	4.7,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ28.00000°,λ94.00000°. NP2:ϕ_s26.00000°,δ62.00000°,λ88.00000°. $M_0$1.35000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.1km az=98.8.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=145.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s25.00000°,δ67.00000°,λ91.00000°. NP2: ϕ_s202.00000°,δ23.00000°,λ87.00000°. Principal axes: T Plg68.0000°,Azm297.0000° ; N Plg1.0000°,Azm204.0000°; P Plg22.0000°,Azm114.0000°
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=147.0. Recorded [2 JMA] in southern and southwestern Hokkaido. Also recorded [2 JMA] in Aomori, Honshu.
IDC Error ellipse: s-maj=11.6km s-min=8.2km az=123.0.

(227) Eastern Honshu

JMA	**IV**	**26 00 05 20.4**	**37.05N**	**140.64E**	**14–1**	**3.6**		
NIED	IV	26 00 05 00	37.10N	140.70E	20	3.3W		**¶602557961**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ60.00000°,λ35.00000°. NP2:ϕ_s91.00000°,δ60.00000°,λ145.00000°. Principal axes: T Plg45.0000°,Azm56.0000°; N Plg45.0000°,Azm236.0000°; P Plg0.0000° ,Azm326.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ54.00000°,λ37.00000°. NP2:ϕ_s82.00000°,δ61.00000°,λ138.00000°. $M_0$9.15000×10^{13}

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 00 30 47.4–1.1**	**36.70N–.05**	**140.63E–.08**	**7–8**		**15**	**0-57**
ISCJB	IV	26 00 30 46.5–1.0	36.67N–.05	140.69E–.09	11–4	3.5b		**¶600599456**
IDC	IV	26 00 30 46.8–2.5	36.72N	140.59E	0	3.7,3.5		
JMA	IV	26 00 30 47.4	36.71N	140.60E	6–1	3.2,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=5.2km az=33.4.
IDC Error ellipse: s-maj=46.0km s-min=33.4km az=32.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 01 07 46.5–1.9**	**36.47N–.06**	**140.95E–.06**	**8–12**	**3.4b**	**19**	**0-64**
NIED	IV	26 01 07 00	36.50N	140.90E	11	3.6W		**¶17202097**
IDC	IV	26 01 07 44.8–1.1	36.33N	140.99E	0	3.5,3.4		
ISCJB	IV	26 01 07 46.2–1.1	36.45N–.05	141.05E–.07	19–8	3.8s,3.3b		
JMA	IV	26 01 07 47.8–.10	36.48N	140.92E	32–1	3.9,3.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ44.00000°,λ-51.00000°. NP2:ϕ_s322.00000°,δ57.00000°,λ-122.00000°. $M_0$2.82000×10^{14}
IDC Error ellipse: s-maj=24.8km s-min=24.1km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=32.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**26 01 35 08.5–.10**	**38.41N**	**142.12E**	**35–1**	**4.1**		
NIED	IV	26 01 35 00	38.40N	142.10E	35	4.0W		**¶600599493**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ32.00000°,λ-129.00000°. NP2:ϕ_s322.00000°,δ66.00000°,λ-69.00000°. $M_0$1.06000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 02 25 54.5–.93**	**36.74N–.04**	**140.62E–.05**	**11–6**	**3.9b**	**36**	**0-147**
NIED	IV	26 02 25 00	36.80N	140.60E	5	3.9W		**¶600599521**
ISCJB	IV	26 02 25 53.3–.71	36.70N–.04	140.73E–.06	17–4	3.8b		
JMA	IV	26 02 25 54.3	36.75N	140.59E	4–1	3.7		
IDC	IV	26 02 25 58.4–2.8	36.75N	140.52E	38–24	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ23.00000°,λ-90.00000°. NP2:ϕ_s176.00000°,δ67.00000°,λ-90.00000°. $M_0$8.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.1km az=29.0.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=103.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 02 27 18.1–.67**	**36.74N–.03**	**140.60E–.05**	**15–4**	**4.2b**	**75**	**0-147**
NIED	IV	26 02 27 00	36.80N	140.60E	5	4.1W		**¶16505534**
ISCJB	IV	26 02 27 16.4–.62	36.69N–.03	140.78E–.04	18–4	4.2b,3.2s		
JMA	IV	26 02 27 17.9	36.76N	140.60E	4–1	3.9,3.2s		
NEIC	IV	26 02 27 17.5–.29	36.75N	140.60E	10	4.1b,3.2s		
MOS	IV	26 02 27 18.8–1.2	36.77N	140.75E	33	4.4b,3.2s		
IDC	IV	26 02 27 23.1–2.1	36.71N	140.53E	53–19	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ30.00000°,λ-102.00000°. NP2:ϕ_s195.00000°,δ61.00000°,λ-83.00000°. $M_0$1.48000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=19.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=7.2km az=69.0.
MOS Error ellipse: s-maj=10.5km s-min=7.8km az=109.3.
IDC Error ellipse: s-maj=14.9km s-min=10.3km az=58.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 02 38 15.2–1.7**	**38.37N–.04**	**142.14E–.06**	**12–10**	**3.6b**	**31**	**1-146**
JMA	IV	26 02 38 17.4–.10	38.49N	142.15E	27–1	4.1		**¶17202103**
IDC	IV	26 02 38 23.7–3.9	38.42N	142.01E	78–36	3.5,3.4		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.0km s-min=16.5km az=95.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 03 39 33.4–1.1**	**36.77N–.03**	**140.53E–.05**	**5–7**	**3.9b**	**43**	**0-147**
NIED	IV	26 03 39 00	36.80N	140.60E	5	3.9W		**¶16577894**
ISCJB	IV	26 03 39 32.7–.62	36.76N–.03	140.71E–.05	13–3	3.8b,2.9s		
IDC	IV	26 03 39 32.4–.61	36.77N	140.55E	0	4.1,4.0		
JMA	IV	26 03 39 33.3	36.76N	140.59E	4–1	3.8,4.0		
NEIC	IV	26 03 39 36.2–2.2	36.79N	140.52E	26–15	4.1b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ36.00000°,λ-88.00000°. NP2:ϕ_s200.00000°,δ54.00000°,λ-92.00000°. $M_0$8.34000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=31.0.
IDC Error ellipse: s-maj=16.7km s-min=13.9km az=133.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ51.00000°,λ-70.00000°. NP2:ϕ_s203.00000°,δ43.00000°,λ-113.00000°. Principal axes: T Plg4.0000°,Azm129.0000°; N Plg15.0000°,Azm220.0000°; P Plg74.0000° ,Azm24.0000°
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.4km az=139.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 03 42 31.2–1.2**	**36.72N–.04**	**140.67E–.06**	**6–8**	**3.4b**	**17**	**0-147**
ISCJB	IV	26 03 42 30.6–.76	36.72N–.04	140.69E–.07	7–4	3.4b,2.8s		**¶17202106**
IDC	IV	26 03 42 30.5–1.1	36.52N	140.66E	0	3.7,3.4		
JMA	IV	26 03 42 31.3	36.76N	140.59E	5–1	3.3,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.0km az=28.9.
IDC Error ellipse: s-maj=30.3km s-min=22.4km az=144.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s8.00000°,δ61.00000°,λ-103.00000°. NP2:ϕ_s214.00000°,δ32.00000°,λ-68.00000°. Principal axes: T Plg15.0000°,Azm108.0000°; N Plg11.0000°,Azm15.0000°; P Plg71.0000° ,Azm249.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 04 01 49.8–.41**	**37.29N–.03**	**141.30E–.03**	**24–2**	**4.9b,4.4s**	**744**	**0-152**
NIED	IV	26 04 01 00	37.30N	141.30E	5	4.8W,4.4s		**¶602557962**
IDC	IV	26 04 01 45.9–.44	37.28N	141.14E	0	4.8,4.7		
ISCJB	IV	26 04 01 46.8–.59	37.28N–.02	141.26E–.02	13–3	4.8b,4.4s		
JMA	IV	26 04 01 47.3	37.29N	141.25E	13–1	5.2,4.4s		
MOS	IV	26 04 01 50.3–.98	37.44N	141.17E	35	5.1b,4.2s		
NEIC	IV	26 04 01 51.6–.49	37.30N	141.19E	37–4	4.9b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ44.00000°,λ-95.00000°. NP2:ϕ_s270.00000°,δ46.00000°,λ-85.00000°. $M_0$2.10000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=10.6km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=149.7.
JMA Event type fe.
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=139.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 04 14 41.5–1.2**	**38.28N–.05**	**141.84E–.08**	**54–9**	**3.8b**	**52**	**0-146**
NIED	IV	26 04 14 00	38.30N	141.80E	62	4.1W		**¶17202108**
ISCJB	IV	26 04 14 40.7–.63	38.28N–.04	141.81E–.07	65–4	3.8b		
JMA	IV	26 04 14 42.0	38.29N	141.76E	56–1	4.2		
IDC	IV	26 04 14 43.4–2.4	38.23N	141.72E	74–22	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ75.00000°,λ-167.00000°. NP2:ϕ_s333.00000°,δ77.00000°,λ-16.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=22.3.
JMA Event type fe.
IDC Error ellipse: s-maj=18.3km s-min=14.2km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 04 52 20.2–.67**	**38.29N–.04**	**141.87E–.07**	**49–5**	**3.9b**	**45**	**0-146**
NIED	IV	26 04 52 00	38.30N	141.80E	50	4.0W		**¶16505536**
ISCJB	IV	26 04 52 18.7–.77	38.27N–.04	141.89E–.09	53–6	3.8b,2.6s		

JMA IV 26 04 52 19.9–.10 38.30N 141.84E 46–1 3.7,2.6s
IDC IV 26 04 52 20.3–.60 38.23N 141.82E 52–5 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ23.00000°,λ88.00000°. NP2:ϕ_s32.00000°,δ67.00000°,λ91.00000°. $M_0$1.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.2km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=10.3km az=107.0.

(227) Eastern Honshu

JMA IV 26 05 06 26.0 37.00N 140.60E 10–1 3.2
¶600599616

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s128.00000°,δ62.00000°,λ-70.00000°. NP2:ϕ_s271.00000°,δ34.00000°,λ-122.00000°. Principal axes: T Plg15.0000°,Azm204.0000°; N Plg17.0000°,Azm299.0000°; P Plg67.0000°,Azm76.0000°

(159) North Island

WEL IV 26 05 14 25.3–.08 39.27S 175.08E 28–0 3.5L
¶601004170

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt from Waikato to Nelson, maximum reported intensity MM 4.

(277) Jawa

ISC IV 26 06 39 35.1–.30 8.06S–.03 108.49E–.03 86–2 5.6b 1088 0-179
BJI IV 26 06 39 32.9 8.00S 108.50E 79 5.3b,5.3b **¶16459965**
NEIC IV 26 06 39 34.0–.00 8.43S 108.69E 79 5.3b,5.3b
DJA IV 26 06 39 35.2–.20 8S–2.0 108E–1.0 66–2 6.3,6.1b
KLM IV 26 06 39 35.5 8.33S 108.09E 115 6.5s,5.9L
ISCJB IV 26 06 39 35.3–.25 8.08S–.02 108.50E–.02 98–2 5.5b,5.9L
MOS IV 26 06 39 36.9–1.1 7.92S 108.57E 108 5.7b,4.6s
NEIC IV 26 06 39 36.5–.78 8.08S 108.48E 95–6 5.7b,5.6W
GCMT IV 26 06 39 38.0–.10 8.38S 108.40E 82–0 5.6W,5.6W
IDC IV 26 06 39 40.7–.67 8.03S 108.62E 131–5 5.4,5.1
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}1.70 $M_{\theta\theta}$0.30 $M_{\phi\phi}$-2.00 $M_{r\theta}$1.00 $M_{\theta\phi}$-0.40 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s164.00000°,δ73.00000°,λ72.00000°. NP2:ϕ_s32.00000°,δ23.00000°,λ135.00000°. Principal axes: T 3.3000,Plg57.0000°,Azm50.0000°; N 0.0000,Plg16.0000°,Azm169.0000°; P -3.3000,Plg26.0000°,Azm267.0000° $M_0$3.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=27.4.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=111.8.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=50.0. Felt [IV] at Pangandaran; [III] at Bogor, Cilacap Karangkates and Yogyakarta; [II] at Bandung and Jakarta. Also felt at Banjaran, Karawang, Kebumen, Magelang, Padalarang, Purwokerto, Tasikmalaya and Wonosobo. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}2.35 $M_{\theta\theta}$0.29 $M_{\phi\phi}$-2.64 $M_{r\theta}$0.84 $M_{\theta\phi}$-0.44 $M_{\phi r}$-1.88 Best double couple: NP1:ϕ_s169.00000°,δ65.00000°,λ71.00000°. NP2:ϕ_s28.00000°,δ31.00000°,λ125.00000°. Principal axes: T 3.2700,Plg64.0000°,Azm46.0000°; N 0.0000,Plg17.0000°,Azm177.0000°; P -3.2700,Plg18.0000°,Azm273.0000° $M_0$3.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c220; s122,c258;Duration: 1s^6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.34±.04 $M_{\theta\theta}$0.45±.04; $M_{\phi\phi}$-2.80±.05; $M_{r\theta}$1.10±.03; $M_{\theta\phi}$-0.25±.04; $M_{\phi r}$-1.85±.03; Best double couple: NP1: ϕ_s163.00000°,δ66.00000°,λ69.00000°. NP2:ϕ_s26.00000°,δ32.00000°,λ129.00000°. Principal axes: T 3.3700,Plg63.0000°,Azm38.0000°; N 0.0220,Plg20.0000°,Azm172.0000°; P -3.3990,Plg18.0000°,Azm268.0000° $M_0$3.38500×10^{17}
IDC Error ellipse: s-maj=8.5km s-min=6.8km az=62.0.

(228) Near east coast of eastern Honshu

JMA IV 26 06 50 18.6 36.92N 140.69E 9–1 3.5
¶600599677

JMA Event type fe.

(162) South Island

WEL IV 26 07 16 50.5–.11 43.58S 172.77E 7–0 3.9L
NEIC IV 26 07 16 50.1 43.60S 172.79E 9 3.9L **¶16460256**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt strongly at Christchurch. After WEL.

(277) Jawa

ISC IV 26 07 24 57.6–.50 8.21S–.05 108.45E–.04 78–3 4.8b 318 0-153
DJA IV 26 07 24 56.8–.20 9S–2.0 108E–1.0 45–5 5.5b,5.1 **¶16459966**
ISCJB IV 26 07 24 57.7–.34 8.12S–.04 108.48E–.02 94–2 4.8b,5.1
MOS IV 26 07 24 58.8–1.2 8.01S 108.49E 100 4.9b,5.1
NEIC IV 26 07 24 59.0–.97 8.11S 108.45E 90–8 4.8b,5.1
IDC IV 26 07 25 03.8–.83 8.00S 108.65E 133–6 4.6,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.2km az=22.7.
MOS Error ellipse: s-maj=9.5km s-min=6.4km az=107.6.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.9km az=46.0. Felt at Bandung and Jakarta.
IDC Error ellipse: s-maj=14.4km s-min=8.3km az=48.0.

(228) Near east coast of eastern Honshu

ISC IV 26 08 24 52.9–.92 36.46N–.05 140.64E–.06 51–7 3.5b 27 0-80
NIED IV 26 08 24 00 36.40N 140.60E 53 3.8W **¶600599728**
IDC IV 26 08 24 45.2–1.3 36.36N 140.81E 0 3.7,3.6
ISCJB IV 26 08 24 51.8–.60 36.44N–.04 140.63E–.07 59–4 4.2s,3.5b
JMA IV 26 08 24 52.7–.10 36.43N 140.59E 53–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ37.00000°,λ-28.00000°. NP2:ϕ_s216.00000°,δ73.00000°,λ-123.00000°. $M_0$5.03000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=24.8km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.9km az=24.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s27.00000°,δ86.00000°,λ135.00000°. NP2:ϕ_s120.00000°,δ45.00000°,λ5.00000°. Principal axes: T Plg33.0000°,Azm333.0000°; N Plg45.0000°,Azm203.0000°; P Plg27.0000°,Azm83.0000°

(162) South Island

WEL IV 26 10 07 46.2–.08 43.58S 172.72E 7–0 4.1L
NEIC IV 26 10 07 46.2 43.59S 172.72E 8 4.2L **¶16460259**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.

(162) South Island

WEL IV 26 10 08 15.8–.08 43.58S 172.73E 6–0 4.5L
¶602945452

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(159) North Island

ISC IV 26 10 28 49.6–.78 40.12S–.03 176.93E–.04 26–5 4.2b 200 0-153
IDC IV 26 10 28 46.0–.99 40.07S 176.84E 0 4.5,4.3 **¶16460261**
ISCJB IV 26 10 28 48.9–.45 40.16S–.02 176.98E–.05 33–2 4.3b,3.4s
NEIC IV 26 10 28 49.5 40.14S 176.98E 22 4.8b,4.6L
WEL IV 26 10 28 49.7–.15 40.14S 176.99E 24–1 4.6L,4.6L
ISC Event type fe.
IDC Error ellipse: s-maj=29.6km s-min=21.4km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=2.9km az=27.9.
NEIC Event type fe. Felt in Hawke's Bay County. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt from Hawke''s Bay to Wellington, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC IV 26 10 31 57.6–1.5 37.79N–.04 141.80E–.09 45–15 3.6b 39 1-89
NIED IV 26 10 31 00 37.80N 141.70E 50 3.6W **¶600599818**
ISCJB IV 26 10 31 57.2–.79 37.81N–.04 141.74E–.09 59–7 3.7b
IDC IV 26 10 31 57.9–2.2 37.72N 141.75E 51–22 3.6,3.6
JMA IV 26 10 31 58.4 37.82N 141.68E 53–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ44.00000°,λ84.00000°. NP2:ϕ_s35.00000°,δ46.00000°,λ96.00000°. $M_0$3.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.3km az=18.0.
IDC Error ellipse: s-maj=23.1km s-min=12.3km az=96.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 26 10 33 39.2–2.2 39.16N–.05 142.4E–.10 24–13 3.8b 19 1-59
NIED IV 26 10 33 00 39.20N 142.40E 38 3.7W **¶17202124**
IDC IV 26 10 33 32.8–2.9 39.38N 143.07E 0 3.8,3.6
ISCJB IV 26 10 33 38.9–1.6 39.17N–.04 142.5E–.10 30–7 3.6b,3.6
JMA IV 26 10 33 40.1–.10 39.19N 142.38E 31–1 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ31.00000°,λ-127.00000°. NP2:ϕ_s180.00000°,δ66.00000°,λ-70.00000°. $M_0$3.38000×10^{14}
IDC Error ellipse: s-maj=70.9km s-min=32.2km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.8km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(58) Near coast of Guerrero

ISC IV 26 11 07 28.2–.43 16.97N–.02 99.59W–.02 19–1 5.2b,4.9s 1073 0-153
IDC IV 26 11 07 24.7–.55 16.84N 99.48W 0 4.8,4.8 **¶16460262**
ISCJB IV 26 11 07 25.8–.17 16.99N–.02 99.40W–.02 10 5.2b,4.9s
GCMT IV 26 11 07 27.0–.20 16.91N 99.45W 23–0 5.4W,4.9s
NEIC IV 26 11 07 27.0–.18 16.85N 99.47W 11 5.5,5.5W
MOS IV 26 11 07 28.8–.99 16.92N 99.37W 33 5.4b,4.9s
MEX IV 26 11 07 28.0–1.0 16.71N 99.68W 8–4 5.5,4.9s
BJI IV 26 11 07 29.5 17.10N 99.40W 20 5.5s,5.4b
ISC Event type fe.
IDC Error ellipse: s-maj=17.2km s-min=10.4km az=48.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=13.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c108; s106,c191; Duration: 1s^2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10±.04 $M_{\theta\theta}$-0.91±.02; $M_{\phi\phi}$-0.19±.02; $M_{r\theta}$0.85±.04; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$-0.63±.04; Best double couple: NP1:ϕ_s121.00000°,δ68.00000°,λ98.00000°. NP2:ϕ_s281.00000°,δ24.00000°,λ72.00000°. Principal axes: T 1.5580,Plg66.0000°,Azm45.0000°; N -0.1280,Plg7.0000°,Azm298.0000°; P -1.4340,Plg22.0000°,Azm205.0000° $M_0$1.49600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=202.0. Felt [V] at Acapulco and [II] at Mexico. Also felt at Acambay, Acamixtla, Cuernavaca, Huixquilucan, Oaxaca, Puebla and San Jeronimo. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.53 $M_{\theta\theta}$-2.32 $M_{\phi\phi}$0.79 $M_{r\theta}$-0.02 $M_{\theta\phi}$1.04 $M_{\phi r}$-0.73 Best double couple: NP1:ϕ_s137.00000°,δ58.00000°,λ135.00000°. NP2:ϕ_s256.00000°,δ53.00000°,λ42.00000°. Principal axes: T 2.0500,Plg53.0000°,Azm104.0000°; N 0.5900,Plg36.0000°,Azm289.0000°; P -2.6400,Plg3.0000°,Azm197.0000° $M_0$2.40000×10^{17}
MOS Error ellipse: s-maj=8.7km s-min=3.9km az=96.8.
MEX Error ellipse: s-maj=5.2km s-min=3.5km az=-1.0.

(58) Near coast of Guerrero

ISC IV 26 11 18 30.7–1.3 16.79N–.03 99.61W–.02 5–8 4.6b 400 0-146
IDC IV 26 11 18 30.3–1.1 16.87N 99.49W 0 4.4,4.3b **¶16476089**
ISCJB IV 26 11 18 32.1–.61 16.79N–.03 99.55W–.02 23–4 4.8s,4.5b
NEIC IV 26 11 18 32.5–1.1 16.78N 99.50W 13–6 4.6b,4.3
MEX IV 26 11 18 33.6–.95 16.70N 99.69W 9–4 4.3,4.3
ISC Event type fe.
IDC Error ellipse: s-maj=26.2km s-min=15.8km az=33.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=4.1.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=5.0km az=199.0. Felt at Mexico and Oaxaca.
MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.

(227) Eastern Honshu

ISC IV 26 12 12 00.8–.32 36.07N–.03 140.00E–.03 47–2 5.1b,4.2s 819 0-162
MOS IV 26 12 11 59.3–.93 36.13N 139.80E 45 5.4b,4.0s **¶16460943**
ISCJB IV 26 12 12 00.3–.30 36.05N–.02 139.84E–.02 53–2 5.1b,4.1s
NEIC IV 26 12 12 00.5–.44 36.09N 139.78E 40–4 5.1b,4.1s
NIED IV 26 12 12 00 36.10N 140.00E 59 4.9W,4.1s
GCMT IV 26 12 12 00.5–.30 36.05N 139.98E 52–1 5.0W,4.1s
IDC IV 26 12 12 01.1–.47 36.07N 139.98E 48–4 5.0,4.9
JMA IV 26 12 12 01.5–.10 36.09N 139.98E 46–1 5.0,4.9
ISC Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=3.7km az=105.2.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=42.7.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=137.0. Felt [III] at Tokyo and [II] at Kanagawa. Also felt at Ayase, Itsukaichi, Musashimurayama, Narita, Numazu, Sagamihara, Tachikawa, Yamato, Yokohama and Yokosuka. Recorded [4 JMA] in Ibaraki and Tochigi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ33.00000°,λ150.00000°. NP2:ϕ_s42.00000°,δ74.00000°,λ61.00000°. $M_0$2.74000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c42; s78,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.81±.23 $M_{\theta\theta}$-2.95±.14; $M_{\phi\phi}$0.14±.15; $M_{r\theta}$1.23±.11; $M_{\theta\phi}$-1.21±.09; $M_{\phi r}$2.03±.09; Best double couple: NP1:ϕ_s48.00000°,δ65.00000°,λ67.00000°. NP2:ϕ_s273.00000°,δ34.00000°,λ130.00000°. Principal axes: T 3.9460,Plg63.0000°,Azm280.0000°; N -0.0390,Plg21.0000°,Azm59.0000°; P -3.9040,Plg16.0000°,Azm155.0000° $M_0$3.92500×10^{16}
IDC Error ellipse: s-maj=6.8km s-min=5.8km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s39.00000°,δ71.00000°,λ89.00000°. NP2: ϕ_s223.00000°,δ19.00000°,λ94.00000°. Principal axes: T Plg64.0000°,Azm307.0000°; N Plg1.0000°,Azm39.0000°; P Plg26.0000°,Azm130.0000°

(228) Near east coast of eastern Honshu

ISC IV 26 12 26 54.9–.40 38.37N–.04 141.87E–.04 54–2 4.4b,3.9s 206 0-151
NIED IV 26 12 26 00 38.40N 141.80E 59 4.5W,3.9s **¶16460945**
ISCJB IV 26 12 26 53.6–.40 38.35N–.02 141.87E–.04 60–2 4.4b,3.9s
MOS IV 26 12 26 53.4–1.0 38.41N 141.91E 59 4.8b,3.9s
JMA IV 26 12 26 55.5 38.40N 141.76E 56–1 4.3,3.9s
NEIC IV 26 12 26 56.6–.57 38.39N 141.77E 68–5 4.6b,3.9s
IDC IV 26 12 26 58.3–.55 38.37N 141.64E 81–4 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ27.00000°,λ104.00000°. NP2:ϕ_s7.00000°,δ64.00000°,λ83.00000°. $M_0$5.74000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.3km az=23.5.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=100.2.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=118.0.
IDC Error ellipse: s-maj=10.7km s-min=9.3km az=100.0.

(228) Near east coast of eastern Honshu

ISC IV 26 13 13 09.6–1.5 36.58N–.05 140.91E–.07 31–12 23 0-57
NIED IV 26 13 13 00 36.50N 141.10E 11 3.6W **¶17202143**
ISCJB IV 26 13 13 06.8–1.1 36.54N–.04 141.15E–.07 22–6 3.5b
JMA IV 26 13 13 07.8–.10 36.52N 141.07E 38–1 3.9
IDC IV 26 13 13 09.6–2.7 36.61N 141.26E 52–29 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ82.00000°,λ-176.00000°. NP2:ϕ_s224.00000°,δ86.00000°,λ-8.00000°. $M_0$2.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.6km az=21.3.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=14.3km az=69.0.

(227) Eastern Honshu

ISC IV 26 14 20 24.2–.99 37.07N–.03 140.70E–.04 5–9 22 0-61
ISCJB IV 26 14 20 23.5–.60 37.08N–.03 140.78E–.06 12–4 3.5b,3.4s **¶17202149**
IDC IV 26 14 20 23.6–1.8 36.97N 140.82E 0 3.5,3.4b
JMA IV 26 14 20 24.1 37.09N 140.70E 8–1 2.9,3.4b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=10.8.
IDC Error ellipse: s-maj=31.8km s-min=30.8km az=139.0.
JMA Event type fe.

(162) South Island

WEL IV 26 14 42 48.8–.08 43.46S 172.15E 8–1 3.9L
¶16463559

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC IV 26 14 53 41.6–2.4 39.04N–.08 142.4E–.10 25–15 3.6b 17 1-63
NIED IV 26 14 53 00 39.10N 142.40E 47 3.7W **¶17202152**
ISCJB IV 26 14 53 41.1–1.5 39.00N–.06 142.43E–.09 30–8 3.5b
JMA IV 26 14 53 42.4–.20 39.09N 142.38E 32–2 3.9
IDC IV 26 14 53 50.4–4.1 38.87N 142.41E 104–37 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ21.00000°,λ-163.00000°. NP2:ϕ_s166.00000°,δ84.00000°,λ-70.00000°. $M_0$4.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=8.6km az=35.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.6km s-min=19.9km az=80.0.

(227) Eastern Honshu

ISC	**IV**	**26 16 41 55.4–1.0**	**37.18N–.03**	**140.62E–.03**	**8–9**		**19**	**0-57**
IDC	IV	26 16 41 53.8–2.5	37.33N	140.68E	0	3.8,3.6		**¶17202164**
ISCJB	IV	26 16 41 55.1–.58	37.19N–.03	140.66E–.07	15–7	3.6s,3.4b		
JMA	IV	26 16 41 55.2	37.18N	140.60E	6–1	3.3,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=42.8km s-min=35.3km az=32.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.4km az=3.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s4.00000°,δ51.00000°,λ-57.00000°. NP2:ϕ_s138.00000°,δ49.00000°,λ-124.00000°. Principal axes: T Plg1.0000°,Azm71.0000°; N Plg25.0000°,Azm161.0000°; P Plg65.0000° ,Azm339.0000°

(227) Eastern Honshu

ISC	**IV**	**26 17 12 22.4–1.0**	**37.01N–.03**	**140.68E–.05**	**7–9**		**19**	**0-57**
ISCJB	IV	26 17 12 21.9–.69	37.01N–.03	140.75E–.06	9–4	3.8b		**¶600600067**
IDC	IV	26 17 12 21.1–1.9	36.84N	140.82E	0	3.7,3.7b		
JMA	IV	26 17 12 22.3	37.01N	140.69E	8–1	3.4,3.7b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.6km az=27.2.
IDC Error ellipse: s-maj=32.5km s-min=29.8km az=86.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ45.00000°,λ-87.00000°. NP2:ϕ_s46.00000°,δ45.00000°,λ-93.00000°. Principal axes: T Plg0.0000°,Azm318.0000°; N Plg2.0000°,Azm48.0000°; P Plg88.0000° ,Azm228.0000°

(227) Eastern Honshu

ISC	**IV**	**26 17 17 34.9–1.0**	**36.21N–.05**	**139.95E–.06**	**58–8**	**3.7b**	**20**	**0-60**
NIED	IV	26 17 17 00	36.30N	140.00E	68	3.7W		**¶17202169**
IDC	IV	26 17 17 25.8–2.1	36.44N	140.48E	0	3.9L,3.7		
ISCJB	IV	26 17 17 33.8–.69	36.18N–.05	140.01E–.08	65–5	3.6b,3.7		
JMA	IV	26 17 17 35.5–.10	36.20N	139.96E	52–1	3.6,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ19.00000°,λ92.00000°. NP2:ϕ_s43.00000°,δ71.00000°,λ89.00000°. $M_0$3.38000×10^{14}
IDC Error ellipse: s-maj=56.1km s-min=21.3km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.6km az=167.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s36.00000°,δ78.00000°,λ86.00000°. NP2: ϕ_s236.00000°,δ13.00000°,λ109.00000°. Principal axes: T Plg57.0000°,Azm301.0000° ; N Plg4.0000°,Azm37.0000°; P Plg33.0000°,Azm130.0000°

(36) Northern California

ISC	**IV**	**26 17 43 09.0–.89**	**38.70N–.04**	**122.93W–.06**	**10**		**48**	**0-24**
IDC	IV	26 17 43 07.2–2.8	38.64N	122.93W	0	3.7,3.4		**¶16631210**
ISCJB	IV	26 17 43 08.7–.38	38.80N–.03	122.73W–.04	10	3.1s,2.7b		
NEIC	IV	26 17 43 08.3	38.81N	122.82W	4	3.9W,2.7b		

ISC Event type fe.
IDC Error ellipse: s-maj=35.1km s-min=11.2km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=145.9.
NEIC Event type fe. Felt [IV] at Kelseyville. Also felt at Cloverdale, Geyserville, Healdsburg, Lakeport and Middletown. After NCEDC. Moment Tensor Solution. $M_0$8.80000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 18 17 56.7–3.7**	**37.44N–.04**	**141.38E–.07**	**10–24**	**3.5b**	**26**	**0-74**
NIED	IV	26 18 17 00	37.50N	141.30E	29	3.8W		**¶17202175**
IDC	IV	26 18 17 55.2–.90	37.41N	141.41E	0	3.7,3.7L		
ISCJB	IV	26 18 17 57.1–.91	37.43N–.03	141.45E–.07	27–5	3.5b,3.7L		
JMA	IV	26 18 17 58.9–.10	37.48N	141.33E	29–1	4.0,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ67.00000°,λ-165.00000°. NP2:ϕ_s196.00000°,δ76.00000°,λ-24.00000°. $M_0$5.58000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=17.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.6km az=11.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**IV**	**26 19 39 52.5–.20**	**38.79N**	**142.38E**	**20–4**	**3.5**		**¶600600171**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 20 07 12.8–2.2**	**36.17N–.06**	**141.08E–.09**	**24–14**	**3.3b**	**17**	**0-69**
IDC	IV	26 20 07 08.8–2.4	36.20N	141.27E	0	3.5,3.4		**¶17202182**
ISCJB	IV	26 20 07 13.5–.97	36.17N–.05	141.04E–.09	40–8	4.0s,3.3b		
JMA	IV	26 20 07 14.3–.10	36.16N	140.95E	43–1	3.4,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=63.9km s-min=28.7km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=8.4km az=156.8.
JMA Event type fe.

(49) Gulf of California

ISC	**IV**	**26 21 10 25.9–.31**	**27.60N–.04**	**111.40W–.03**	**10**	**5.1s,5.0b**	**932**	**1-142**
ECX	IV	26 21 10 21.0–1.8	27.54N	111.32W	8–32	5.5,5.0b		**¶602546222**
ISCJB	IV	26 21 10 24.4–.19	27.63N–.02	111.27W–.01	10	5.1s,4.9b		
IDC	IV	26 21 10 24.4–.54	27.65N	111.41W	0	4.9,4.9s		
MEX	IV	26 21 10 24.4–.63	27.57N	111.46W	13	5.4,4.9s		
GCMT	IV	26 21 10 25.6–.10	27.67N	111.54W	18–0	5.4W,4.9s		
NEIC	IV	26 21 10 25.6–1.2	27.46N	111.53W	11–7	5.4,5.3W		
BJI	IV	26 21 10 25.1	27.40N	111.60W	15	5.6b,5.6s		
NEIC	IV	26 21 10 26.0–.00	27.44N	111.60W	15	5.6b,5.6s		
MOS	IV	26 21 10 26.0–1.2	27.61N	111.36W	20	5.4s,5.2b		

ISC Event type fe.
ECX Error ellipse: s-maj=22.8km s-min=23.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=25.1.
IDC Error ellipse: s-maj=15.0km s-min=9.5km az=46.0.
MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c135; s120,c224; Duration: 1±3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.02 $M_{\theta\theta}$-1.57±.03; $M_{\phi\phi}$1.64±.03; $M_{r\theta}$-0.31±.06; $M_{\theta\phi}$-0.53±.02; $M_{\phi r}$-0.06±.05; Best double couple: NP1:ϕ_s35.00000°,δ82.00000° ,λ-8.00000°. NP2:ϕ_s126.00000°,δ82.00000°,λ-172.00000°. Principal axes: T 1.7250,Plg0.0000°,Azm81.0000°; N -0.0110,Plg79.0000°,Azm172.0000° ; P -1.7160,Plg11.0000°,Azm351.0000° $M_0$1.72000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=216.0. Felt [III] at Guaymas and [II] at Hermosillo, Sonora. Also felt at Agua Prieta, Bahia de Kino, Empalme and Kino. Felt at Santa Rosalia, Baja California Sur.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-1.30 $M_{\phi\phi}$1.40 $M_{r\theta}$0.40 $M_{\theta\phi}$0.00 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s316.00000° ,δ84.00000°,λ-163.00000°. NP2:ϕ_s224.00000°,δ73.00000°,λ-5.00000°. Principal axes: T 1.4000,Plg7.0000°,Azm89.0000°; N 0.0000,Plg72.0000°,Azm334.0000° ; P -1.4000,Plg15.0000°,Azm181.0000° $M_0$1.00000×10^{17}
MOS Error ellipse: s-maj=7.7km s-min=4.3km az=97.5.

(289) Timor region

ISC	**IV**	**26 21 43 48.2–.48**	**9.02S–.03**	**125.68E–.03**	**20–2**	**5.4b,4.9s**	**1083**	**2-172**
IDC	IV	26 21 43 45.1–.33	8.94S	125.57E	0	5.3,5.3b		**¶16462191**
ISCJB	IV	26 21 43 46.4–.91	8.95S–.02	125.63E–.02	21–6	5.3b,4.9s		
NEIC	IV	26 21 43 47.5–2.0	8.81S	125.66E	10–11	5.5b,5.0s		
GCMT	IV	26 21 43 47.5–.10	9.24S	125.81E	22–0	5.3W,5.0s		
BJI	IV	26 21 43 48.3	8.90S	125.70E	25	5.2b,5.2b		
MOS	IV	26 21 43 49.4–1.6	8.78S	125.55E	33	5.6b,4.9s		
DJA	IV	26 21 43 52.1–.30	9S–2.0	126E–2.0	50–5	5.8,5.7b		
KLM	IV	26 21 43 56.1	9.03S	125.66E	85	6.0s,5.4b		

ISC Event type fe.
IDC Error ellipse: s-maj=13.5km s-min=9.7km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.3km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.4km az=47.0. Felt [II] at Dili.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c146; s92,c177; Duration: 1±1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.91±.03 $M_{\theta\theta}$-0.92±.02; $M_{\phi\phi}$0.01±.02; $M_{r\theta}$0.23±.03; $M_{\theta\phi}$-0.33±.01; $M_{\phi r}$-0.19±.04; Best double couple: NP1:ϕ_s88.00000°,δ52.00000° ,λ110.00000°. NP2:ϕ_s237.00000°,δ43.00000°,λ66.00000°. Principal axes: T 0.9910,Plg73.0000°,Azm57.0000°; N 0.0440,Plg16.0000°,Azm255.0000° ; P -1.0350,Plg5.0000°,Azm164.0000° $M_0$1.01300×10^{17}
MOS Error ellipse: s-maj=8.3km s-min=5.2km az=105.5.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 22 35 32.2–.66**	**35.44N–.04**	**140.98E–.06**	**33**	**3.7b**	**26**	**0-86**
NIED	IV	26 22 35 00	35.40N	141.10E	23	4.2W		**¶600600247**
IDC	IV	26 22 35 28.2–.65	35.40N	141.15E	0	3.9,3.8		
ISCJB	IV	26 22 35 31.1–.48	35.36N–.04	141.10E–.07	33	4.2s,3.7b		
JMA	IV	26 22 35 31.8–.10	35.42N	140.99E	27–2	4.2,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ51.00000°,λ-135.00000°. NP2:ϕ_s27.00000°,δ56.00000°,λ-49.00000°. $M_0$2.29000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=15.0km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.1km az=167.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**26 23 13 14.2–1.6**	**39.26N–.06**	**142.4E–.20**	**39–6**	**4.0b**	**18**	**1-59**
NIED	IV	26 23 13 00	39.30N	142.40E	50	3.7W		**¶17202194**
ISCJB	IV	26 23 13 13.7–1.4	39.26N–.05	142.4E–.10	45–11	3.6b		
JMA	IV	26 23 13 14.1–.10	39.27N	142.40E	35–1	3.8		
IDC	IV	26 23 13 21.8–10	39.14N	142.06E	100–64	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ47.00000°,λ-61.00000°. NP2:ϕ_s208.00000°,δ50.00000°,λ-118.00000°. $M_0$3.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=17.9km s-min=7.6km az=9.1.
JMA Event type fe.
IDC Error ellipse: s-maj=138.2km s-min=24.4km az=71.0.

(227) Eastern Honshu

ISC	**IV**	**27 00 43 12.3–.99**	**37.08N–.04**	**140.74E–.06**	**11–8**		**16**	**0-57**
ISCJB	IV	27 00 43 12.8–.65	37.09N–.03	140.75E–.07	7–5	3.4b		**¶17202197**
JMA	IV	27 00 43 12.7	37.09N	140.70E	8–1	2.9		
IDC	IV	27 00 43 18.0–2.9	36.10N	140.43E	0	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=4.9km az=17.2.
JMA Event type fe.
IDC Error ellipse: s-maj=74.0km s-min=26.5km az=43.0.

(227) Eastern Honshu

ISC	**IV**	**27 00 55 52.2–.91**	**37.05N–.03**	**140.66E–.04**	**9–6**	**3.8b**	**62**	**0-147**
NIED	IV	27 00 55 00	37.00N	140.70E	5	3.7W		**¶16681490**
IDC	IV	27 00 55 50.6–.62	37.07N	140.68E	0	4.0,3.9		
ISCJB	IV	27 00 55 51.7–.48	37.05N–.03	140.78E–.04	18–3	4.0s,4.0b		
JMA	IV	27 00 55 52.2	37.04N	140.68E	9–1	4.1,4.0b		
NEIC	IV	27 00 55 56.8–.65	37.05N	140.60E	44–5	4.2b,4.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ44.00000°,λ-86.00000°. NP2:ϕ_s226.00000°,δ46.00000°,λ-94.00000°. $M_0$4.07000×10^{14}
IDC Error ellipse: s-maj=17.3km s-min=13.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.2km az=26.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s240.00000°,δ54.00000°,λ-91.00000°. NP2:ϕ_s62.00000°,δ36.00000°,λ-88.00000°. Principal axes: T Plg9.0000°,Azm331.0000°; N Plg1.0000°,Azm241.0000°; P Plg81.0000° ,Azm145.0000°
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=5.0km az=126.0. Recorded [2 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 03 55 09.6–.95**	**37.05N–.03**	**140.67E–.04**	**7–6**	**3.9b**	**40**	**0-74**
NIED	IV	27 03 55 00	37.10N	140.70E	8	3.9W		**¶602557992**
ISCJB	IV	27 03 55 08.9–.53	37.04N–.03	140.80E–.05	15–3	3.9b		
IDC	IV	27 03 55 08.2–.81	36.96N	140.69E	0	4.0,3.9		
JMA	IV	27 03 55 09.5	37.06N	140.67E	10–1	4.1,3.9		
NEIC	IV	27 03 55 09.8–.73	36.97N	140.60E	10	4.2b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ16.00000°,λ-73.00000°. NP2:ϕ_s175.00000°,δ75.00000°,λ-95.00000°. $M_0$7.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=28.8.
IDC Error ellipse: s-maj=18.3km s-min=12.6km az=148.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ67.00000°,λ-96.00000°. NP2:ϕ_s10.00000°,δ23.00000°,λ-75.00000°. Principal axes: T Plg22.0000°,Azm269.0000°; N Plg6.0000°,Azm177.0000°; P Plg67.0000° ,Azm73.0000°
NEIC Event type fe. Error ellipse: s-maj=16.3km s-min=9.1km az=140.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 04 03 43.8–1.2**	**37.05N–.04**	**141.26E–.05**	**20–5**	**3.9b**	**41**	**0-147**
NIED	IV	27 04 03 00	37.00N	141.30E	11	3.9W		**¶16505546**
ISCJB	IV	27 04 03 42.4–.91	37.02N–.03	141.32E–.06	24–5	3.8b,3.4s		
JMA	IV	27 04 03 43.8–.10	37.04N	141.21E	28–1	4.0,3.4s		
IDC	IV	27 04 03 48.5–2.4	37.00N	141.09E	58–23	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ50.00000°,λ-49.00000°. NP2:ϕ_s212.00000°,δ55.00000°,λ-128.00000°. $M_0$7.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.4km az=21.5.
JMA Event type fe.
IDC Error ellipse: s-maj=17.8km s-min=16.6km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 04 06 05.0–2.2**	**39.07N–.05**	**142.46E–.09**	**8–11**		**19**	**1-59**
NIED	IV	27 04 06 00	39.10N	142.30E	32	3.5W		**¶17202206**
IDC	IV	27 04 06 01.7–3.1	39.18N	142.88E	0	4.3,4.3s		
ISCJB	IV	27 04 06 06.7–1.6	39.03N–.05	142.5E–.10	25–7	4.2s,3.8b		
JMA	IV	27 04 06 08.7–.10	39.06N	142.35E	33–1	4.0,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ13.00000°,λ112.00000°. NP2:ϕ_s359.00000°,δ78.00000°,λ85.00000°. $M_0$2.14000×10^{14}
IDC Error ellipse: s-maj=71.6km s-min=39.1km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.7km az=4.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 04 23 56.9–1.4**	**37.09N–.05**	**141.55E–.07**	**42–13**	**3.8b**	**36**	**1-147**
NIED	IV	27 04 23 00	37.10N	141.40E	53	3.9W		**¶17202207**
ISCJB	IV	27 04 23 56.6–.80	37.08N–.04	141.53E–.08	54–6	3.8b		
JMA	IV	27 04 23 57.8–.10	37.10N	141.43E	54–1	3.9		
IDC	IV	27 04 24 00.6–2.6	37.08N	141.22E	75–25	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ27.00000°,λ71.00000°. NP2:ϕ_s193.00000°,δ64.00000°,λ100.00000°. $M_0$7.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.5km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=16.7km az=94.0.

(227) Eastern Honshu

ISC	**IV**	**27 04 39 39.8–1.0**	**39.00N–.05**	**141.81E–.08**	**65–7**	**3.7b**	**24**	**0-59**
ISCJB	IV	27 04 39 38.9–.69	39.00N–.05	141.80E–.09	72–5	3.7b		**¶17202209**
JMA	IV	27 04 39 40.2	39.03N	141.72E	67–1	3.5		
IDC	IV	27 04 39 42.9–3.3	38.95N	141.63E	95–32	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.1km az=17.9.
JMA Event type fe.
IDC Error ellipse: s-maj=30.9km s-min=21.5km az=97.0.

(134) Off coast of central Chile

ISC	**IV**	**27 04 57 35.4–1.3**	**33.95S–.03**	**72.21W–.06**	**24–8**	**5.2b,4.6s**	**792**	**0-179**
GUC	IV	27 04 57 32.9–.55	33.95S	72.50W	24–9	5.0L,4.6s		**¶16463269**
GCMT	IV	27 04 57 32.0–.20	34.01S	72.66W	20–1	5.2W,4.6s		
NEIC	IV	27 04 57 32.0	33.95S	72.50W	24	5.3b,5.1W		
ISCJB	IV	27 04 57 33.9–.99	33.87S–.03	72.20W–.06	24–7	5.2b,4.6s		
MOS	IV	27 04 57 36.1–1.2	33.71S	72.13W	33	5.3b,4.6s		
BJI	IV	27 04 57 36.2	34.24S	72.68W	39	5.4s,5.2		
IDC	IV	27 04 57 37.8–3.0	33.88S	72.19W	39–25	5.0,4.9L		

ISC Event type fe.
GUC Error ellipse: s-maj=2.0km s-min=5.1km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c54; s79,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.23±.20 $M_{\theta\theta}$-0.10±.11; $M_{\phi\phi}$-4.13±.15; $M_{r\theta}$-0.11±.21; $M_{\theta\phi}$-0.76±.08; $M_{\phi r}$-4.97±.33; Best double couple: NP1:ϕ_s183.00000° ,δ70.00000°,λ85.00000°. NP2:ϕ_s17.00000°,δ21.00000°,λ103.00000°. Principal axes: T 6.5510,Plg65.0000°,Azm86.0000°; N -0.0190,Plg4.0000°,Azm185.0000° ; P -6.5270,Plg25.0000°,Azm277.0000° $M_0$6.53900×10^{16}
NEIC Event type fe. Felt [IV] at Constitucion and Valparaiso; [II] at Curico, Navidad, Rancagua and Talca. Also felt at Colina, Santiago and Vina del Mar. After GUC. Moment Tensor Solution. s19 Moment tensor: Scale 10^{16}Nm; M_{rr}3.14 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-3.24 $M_{r\theta}$-1.15 $M_{\theta\phi}$1.78 $M_{\phi r}$-3.01

Best double couple: NP1:ϕ_s184.00000°,δ67.00000°,λ117.00000°. NP2:ϕ_s311.00000°,δ35.00000°,λ43.00000°. Principal axes: T 4.9700,Plg59.0000°,Azm131.0000°; N -0.2000,Plg25.0000°,Azm353.0000°; P -4.7700,Plg18.0000°,Azm254.0000° M_o4.90000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=169.3.
MOS Error ellipse: s-maj=15.3km s-min=7.0km az=101.1.
IDC Error ellipse: s-maj=19.6km s-min=12.3km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 06 15 39.0–1.1**	**36.74N–.05**	**140.66E–.05**	**9–7**	**3.8b**	**25**	**0-74**
NIED	IV	27 06 15 00	36.70N	140.70E	5	3.7W		**¶17202212**
IDC	IV	27 06 15 37.5–1.6	36.77N	140.77E	0	3.9,3.8		
ISCJB	IV	27 06 15 38.4–.88	36.66N–.04	140.75E–.07	18–5	3.7b,3.8		
JMA	IV	27 06 15 39.7	36.72N	140.65E	6–1	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ47.00000°,λ-114.00000°. NP2:ϕ_s150.00000°,δ48.00000°,λ-67.00000°. M_o3.67000×10^{14}
IDC Error ellipse: s-maj=35.6km s-min=22.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=4.7km az=22.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s293.00000°,δ62.00000°,λ-120.00000°. NP2:ϕ_s163.00000°,δ40.00000°,λ-47.00000°. Principal axes: T Plg12.0000°,Azm44.0000°; N Plg26.0000°,Azm308.0000°; P Plg61.0000°,Azm156.0000°

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 07 03 20.8–.90**	**39.91N–.04**	**142.38E–.05**	**41–8**	**4.5b,3.7s**	**124**	**0-93**
NIED	IV	27 07 03 00	40.00N	142.40E	44	4.4W,3.7s		**¶16466101**
MOS	IV	27 07 03 18.9–1.3	40.00N	142.29E	33	4.7b,3.7s		
JMA	IV	27 07 03 20.8–.10	39.95N	142.34E	41–1	4.2,3.7s		
ISCJB	IV	27 07 03 20.3–.47	39.98N–.03	142.34E–.05	49–3	4.4b,3.7s		
NEIC	IV	27 07 03 20.7–.58	39.95N	142.35E	35	4.7b,3.7s		
IDC	IV	27 07 03 24.0–1.9	39.95N	142.24E	68–17	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ16.00000°,λ89.00000°. NP2:ϕ_s23.00000°,δ74.00000°,λ90.00000°. M_o4.55000×10^{15}
MOS Error ellipse: s-maj=9.0km s-min=5.7km az=91.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.3km az=31.6.
NEIC Event type fe. Error ellipse: s-maj=13.7km s-min=7.9km az=129.0. Recorded [2 JMA] in Iwate.
IDC Error ellipse: s-maj=14.2km s-min=11.4km az=116.0.

(14) Kenai Peninsula

ISC	**IV**	**27 07 45 31.9–1.3**	**60.84N–.03**	**149.28W–.03**	**36–2**		**95**	**0-58**
ISCJB	IV	27 07 45 31.2–.23	60.84N–.02	149.26W–.04	51–5	3.5b		**¶16649467**
NEIC	IV	27 07 45 32.5	60.85N	149.28W	24	3.4L		
IDC	IV	27 07 45 33.1–8.9	60.78N	149.19W	66–49	3.3,3.3		

ISC Event type fe.
ISCJB Error ellipse: s-maj=3.8km s-min=3.0km az=156.3.
NEIC Event type fe. Felt [II] at Anchorage and Girdwood. After AEIC.
IDC Error ellipse: s-maj=102.5km s-min=38.5km az=46.0.

(268) Sulawesi

ISC	**IV**	**27 08 00 10.5–.70**	**4.38S–.08**	**122.94E–.06**	**33**	**4.1b,3.4s**	**30**	**3-121**
IDC	IV	27 08 00 05.4–.89	4.35S	122.96E	0	4.3,4.2		**¶16708147**
NEIC	IV	27 08 00 06.7–.43	4.39S	122.94E	10	4.1b,4.2		
ISCJB	IV	27 08 00 08.1–.39	4.39S–.05	122.97E–.04	33	4.2b,3.5s		
DJA	IV	27 08 00 08.6–.20	4S–3.0	123E–2.0	16	5.3b,4.7		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Kendari.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 08 35 36.3–.81**	**35.68N–.05**	**140.87E–.07**	**44–7**	**4.0b**	**39**	**0-79**
NIED	IV	27 08 35 00	35.70N	140.80E	53	4.2W		**¶16505549**
IDC	IV	27 08 35 30.6–.81	35.68N	140.85E	0	4.0,4.0		
ISCJB	IV	27 08 35 34.8–.52	35.66N–.03	140.95E–.07	51–4	4.0b,3.0s		
NEIC	IV	27 08 35 34.2–1.9	35.61N	140.87E	26–14	4.4b,3.0s		
JMA	IV	27 08 35 36.5–.10	35.69N	140.74E	47–1	3.6,3.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ20.00000°,λ88.00000°. NP2:ϕ_s355.00000°,δ70.00000°,λ91.00000°. M_o2.15000×10^{15}
IDC Error ellipse: s-maj=24.6km s-min=15.5km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.7km az=171.9.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.3km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s23.00000°,δ82.00000°,λ96.00000°. NP2: ϕ_s162.00000°,δ10.00000°,λ50.00000°. Principal axes: T Plg52.0000°,Azm300.0000°; N Plg6.0000°,Azm202.0000°; P Plg37.0000°,Azm107.0000°

(227) Eastern Honshu

ISC	**IV**	**27 10 27 24.7–.99**	**36.80N–.03**	**138.62E–.03**	**10–6**	**4.2b,3.6s**	**69**	**0-149**
NIED	IV	27 10 27 00	36.80N	138.60E	8	4.4W,3.6s		**¶16465533**
IDC	IV	27 10 27 23.8–.48	36.88N	138.49E	0	4.2,4.1		
ISCJB	IV	27 10 27 24.0–.48	36.82N–.03	138.58E–.03	16–4	4.0b,3.6s		
JMA	IV	27 10 27 24.2–.20	36.82N	138.62E	0–3	4.6,3.6s		
NEIC	IV	27 10 27 26.0–.81	36.75N	138.49E	18–5	4.3b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ78.00000°,λ-170.00000°. NP2:ϕ_s10.00000°,δ80.00000°,λ-12.00000°. M_o5.13000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=5.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=144.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ85.00000°,λ8.00000°. NP2:ϕ_s94.00000°,δ82.00000°,λ175.00000°. Principal axes: T Plg9.0000°,Azm49.0000°; N Plg81.0000°,Azm217.0000°; P Plg2.0000°,Azm319.0000°
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.7km az=119.0. Recorded [4 JMA] in Gumma.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 11 12 45.5–1.2**	**38.40N–.05**	**141.85E–.09**	**54–10**	**3.6b**	**36**	**0-76**
ISCJB	IV	27 11 12 44.9–.67	38.41N–.04	141.84E–.08	65–6	3.5b		**¶17202230**
JMA	IV	27 11 12 46.3	38.40N	141.78E	58–1	3.8		
IDC	IV	27 11 12 46.4–2.5	38.45N	141.86E	64–23	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.2km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=29.9km s-min=16.6km az=97.0.

(227) Eastern Honshu

ISC	**IV**	**27 12 27 46.8–1.0**	**37.09N–.03**	**140.53E–.04**	**9–7**	**3.8b**	**40**	**0-147**
NIED	IV	27 12 27 00	37.00N	140.70E	11	3.7W		**¶16465534**
ISCJB	IV	27 12 27 46.8–.43	37.08N–.03	140.72E–.04	23–3	3.9b		
JMA	IV	27 12 27 47.4	37.06N	140.66E	13–1	3.9		
IDC	IV	27 12 27 51.0–2.0	37.10N	140.51E	41–18	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ44.00000°,λ90.00000°. NP2:ϕ_s47.00000°,δ46.00000°,λ90.00000°. M_o4.20000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s255.00000°,δ54.00000°,λ96.00000°. NP2:ϕ_s65.00000°,δ36.00000°,λ82.00000°. Principal axes: T Plg80.0000°,Azm191.0000°; N Plg5.0000°,Azm72.0000°; P Plg9.0000°,Azm341.0000°
IDC Error ellipse: s-maj=17.5km s-min=12.1km az=104.0.

(227) Eastern Honshu

ISC	**IV**	**27 12 57 12.0–.90**	**37.06N–.03**	**140.70E–.04**	**10–6**	**3.8b**	**35**	**0-69**
NIED	IV	27 12 57 00	37.10N	140.70E	5	3.7W		**¶16577905**
IDC	IV	27 12 57 09.4–1.3	37.08N	140.92E	0	3.9,3.8		
ISCJB	IV	27 12 57 11.1–.52	37.05N–.03	140.81E–.05	16–4	3.7b,3.8		
JMA	IV	27 12 57 11.8	37.07N	140.67E	9–1	3.7,3.8		
NEIC	IV	27 12 57 15.3–.80	36.99N	140.72E	35–8	4.0b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ13.00000°,λ-105.00000°. NP2:ϕ_s189.00000°,δ77.00000°,λ-86.00000°. M_o3.47000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=18.3km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=20.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s197.00000°,δ61.00000°,λ-95.00000°. NP2:ϕ_s28.00000°,δ29.00000°,λ-81.00000°. Principal axes: T Plg16.0000°,Azm291.0000°; N Plg4.0000°,Azm200.0000°; P Plg73.0000°,Azm95.0000°
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.5km az=107.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**27 13 55 24.8–.10**	**37.44N**	**141.52E**	**43–2**	**3.5**		
NIED	IV	27 13 55 00	37.50N	141.60E	47	3.6W		**¶600600737**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ16.00000°,λ157.00000°. NP2:ϕ_s25.00000°,δ84.00000°,λ76.00000°. M_o2.63000×10^{14}

(227) Eastern Honshu

ISC	**IV**	**27 14 48 24.2–.94**	**37.05N–.03**	**140.66E–.04**	**10–8**	**3.5b**	**21**	**0-61**
IDC	IV	27 14 48 22.4–2.4	37.03N	140.85E	0	3.7,3.5b		**¶17202240**
ISCJB	IV	27 14 48 23.9–.63	37.03N–.03	140.75E–.05	15–5	3.6b,3.5b		
JMA	IV	27 14 48 24.4	37.05N	140.65E	7–2	3.3,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=49.7km s-min=29.2km az=31.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.4km az=23.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ51.00000°,λ-77.00000°. NP2:ϕ_s6.00000°,δ41.00000°,λ-105.00000°. Principal axes: T Plg5.0000°,Azm287.0000°; N Plg10.0000°,Azm18.0000°; P Plg79.0000°,Azm172.0000°

(460) Wyoming

ISC	**IV**	**27 19 09 22.4–.82**	**43.35N–.04**	**105.16W–.03**	**0**		**41**	**1-20**
IDC	IV	27 19 09 22.8–2.2	43.61N	105.40W	0	3.4,3.2		**¶17202252**
NEIC	IV	27 19 09 23.0–.82	43.63N	105.35W	0	3.0L,3.2		

ISC Event type sm.
IDC Error ellipse: s-maj=45.3km s-min=10.2km az=150.0.
NEIC Event type fm. Error ellipse: s-maj=12.7km s-min=8.8km az=180.0. 75 km [46 miles] S of Gillette. Suspected Mining explosion.

(40) California-Nevada border region

ISC	**IV**	**27 19 19 22.2–1.3**	**38.35N–.03**	**118.61W–.04**	**1–10**		**88**	**0-31**
NEIC	IV	27 19 19 20.6	38.41N	118.72W	3	4.3L,3.9W		**¶16485049**
IDC	IV	27 19 19 21.2–.91	38.39N	118.71W	0	4.0L,3.9		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Hawthorne. Also felt at Carson City and Yerington. After REN. Moment Tensor Solution. M_o9.60000×10^{14}
IDC Error ellipse: s-maj=12.6km s-min=6.5km az=9.0.

(227) Eastern Honshu

ISC	**IV**	**27 21 11 18.1–1.1**	**36.99N–.04**	**140.70E–.04**	**20–3**	**3.5b**	**21**	**0-57**
NIED	IV	27 21 11 00	37.00N	140.70E	5	3.6W		**¶17202259**
IDC	IV	27 21 11 14.8–2.0	36.95N	140.79E	0	3.7,3.6b		
ISCJB	IV	27 21 11 17.6–.68	36.99N–.03	140.75E–.06	25–4	3.5b,3.6b		
JMA	IV	27 21 11 18.5	37.00N	140.65E	17–1	3.5,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ21.00000°,λ-122.00000°. NP2:ϕ_s209.00000°,δ72.00000°,λ-78.00000°. M_o2.85000×10^{14}
IDC Error ellipse: s-maj=39.1km s-min=23.7km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=14.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 21 45 02.5–.41**	**38.14N–.03**	**141.83E–.03**	**55–3**	**5.1b,4.5s**	**969**	**0-160**
MOS	IV	27 21 44 58.9–1.2	38.17N	141.87E	33	5.3b,4.5s		**¶16465539**
BJI	IV	27 21 45 00.2	38.11N	141.90E	58	4.9b,4.8b		
NIED	IV	27 21 45 00	38.10N	141.80E	53	4.7W,4.8b		
ISCJB	IV	27 21 45 02.5–.30	38.14N–.02	141.71E–.02	64–2	5.0b,4.8b		
JMA	IV	27 21 45 02.6–.10	38.13N	141.78E	53–1	4.8,4.8b		
IDC	IV	27 21 45 02.9–.54	38.13N	141.74E	58–4	4.9,4.7		
GCMT	IV	27 21 45 04.2–.50	38.42N	141.84E	56–1	5.0W,4.7		
NEIC	IV	27 21 45 04.2–.37	38.15N	141.65E	66–3	5.1b,4.7		

ISC Event type se.
MOS Error ellipse: s-maj=7.7km s-min=5.4km az=84.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ45.00000°,λ117.00000°. NP2:ϕ_s196.00000°,δ51.00000°,λ65.00000°. M_o1.31000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=157.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.7km s-min=9.1km az=117.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c46; s53,c69; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.22 $M_{\theta\theta}$-0.82±.15; $M_{\phi\phi}$-2.56±.15; $M_{r\theta}$1.36±.15; $M_{\theta\phi}$-1.16±.10; $M_{\phi r}$-0.79±.14; Best double couple: NP1:ϕ_s187.00000°,δ49.00000°,λ63.00000°. NP2:ϕ_s46.00000°,δ48.00000°,λ118.00000°. Principal axes: T 3.9680,Plg70.0000°,Azm29.0000°; N -0.8290,Plg20.0000°,Azm206.0000°; P -3.1420,Plg1.0000°,Azm296.0000° M_o3.55500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=148.0. Recorded [3 JMA] in Iwate and Miyagi.

(236) Shikoku

ISC	**IV**	**27 22 00 18.9–.77**	**32.71N–.05**	**132.13E–.03**	**37–1**	**3.8b**	**35**	**0-84**
NIED	IV	27 22 00 00	32.70N	132.20E	32	4.0W		**¶17202261**
ISCJB	IV	27 22 00 18.5–.43	32.73N–.05	132.10E–.04	50–4	3.7b,3.5s		
JMA	IV	27 22 00 19.1	32.69N	132.14E	37–1	3.9,3.5s		
IDC	IV	27 22 00 19.5–.76	32.65N	131.96E	41–7	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ34.00000°,λ-102.00000°. NP2:ϕ_s180.00000°,δ57.00000°,λ-82.00000°. M_o1.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.9km az=155.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s170.00000°,δ50.00000°,λ-80.00000°. NP2:ϕ_s335.00000°,δ41.00000°,λ-102.00000°. Principal axes: T Plg5.0000°,Azm253.0000°; N Plg8.0000°,Azm344.0000°; P Plg81.0000°,Azm132.0000°
IDC Error ellipse: s-maj=20.5km s-min=13.1km az=62.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**27 22 29 28.6–1.0**	**36.94N–.03**	**140.67E–.04**	**8–7**	**3.6b**	**33**	**0-147**
NIED	IV	27 22 29 00	36.90N	140.70E	5	3.7W		**¶17202264**
ISCJB	IV	27 22 29 27.9–.61	36.92N–.03	140.77E–.05	15–5	3.6b		
IDC	IV	27 22 29 27.4–.76	36.88N	140.66E	0	3.8,3.7		
JMA	IV	27 22 29 28.6	36.95N	140.66E	7–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ43.00000°,λ-83.00000°. NP2:ϕ_s267.00000°,δ48.00000°,λ-96.00000°. M_o3.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=22.0.
IDC Error ellipse: s-maj=22.9km s-min=16.5km az=104.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s276.00000°,δ55.00000°,λ-105.00000°. NP2:ϕ_s120.00000°,δ38.00000°,λ-70.00000°. Principal axes: T Plg9.0000°,Azm16.0000°; N Plg12.0000°,Azm284.0000°; P Plg75.0000°,Azm142.0000°

(229) Off east coast of Honshu

ISC	**IV**	**28 00 02 23.4–.34**	**36.80N–.03**	**142.65E–.03**	**19–3**	**4.9b,4.8s**	**881**	**2-160**
NIED	IV	28 00 02 00	36.80N	142.60E	11	4.9W,4.8s		**¶16465541**
ISCJB	IV	28 00 02 20.0–.77	36.77N–.02	142.59E–.02	6–4	4.9b,4.8s		
GCMT	IV	28 00 02 22.8–.30	36.72N	142.67E	28–1	5.0W,4.8s		
JMA	IV	28 00 02 22.5–.10	36.79N	142.64E	54	5.0,4.8s		
NEIC	IV	28 00 02 22.8–1.5	36.72N	142.57E	16–9	4.9b,4.8s		
IDC	IV	28 00 02 23.6–5.5	36.74N	142.63E	21–35	4.7,4.7		
MOS	IV	28 00 02 24.5–.97	36.93N	142.56E	33	5.1b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ23.00000°,λ139.00000°. NP2:ϕ_s2.00000°,δ75.00000°,λ73.00000°. M_o2.85000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.1km az=166.5.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s71,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.25±.21 $M_{\theta\theta}$-0.70±.12; $M_{\phi\phi}$-2.55±.13; $M_{r\theta}$1.10±.19; $M_{\theta\phi}$-1.47±.07; $M_{\phi r}$2.77±.19; Best double couple: NP1:ϕ_s24.00000°,δ66.00000°,λ86.00000°. NP2:ϕ_s214.00000°,δ24.00000°,λ99.00000°. Principal axes: T 4.4080,Plg69.0000°,Azm286.0000°; N 0.0890,Plg4.0000°,Azm26.0000°; P -4.4950,Plg21.0000°,Azm117.0000° M_o4.45100×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=139.0. Recorded [1 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=12.0km s-min=9.2km az=100.0.
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=105.6.

(228) Near east coast of eastern Honshu

ISC	**IV**	**28 00 38 55.0–1.6**	**37.95N–.05**	**141.96E–.09**	**43–15**	**3.6b**	**41**	**1-146**
NIED	IV	28 00 38 00	38.00N	141.80E	56	3.9W		**¶17202269**

ISCJB IV 28 00 38 54.6–.84 37.98N–.04 141.93E–.08 57–7 3.8b
JMA IV 28 00 38 55.8–.10 37.97N 141.84E 52–1 3.9
IDC IV 28 00 38 55.5–1.7 37.93N 141.89E 49–16 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ44.00000°,λ118.00000°. NP2:ϕ_s15.00000°,δ53.00000°,λ66.00000°. $M_0$8.65000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=22.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=10.7km az=98.0.

(40) California-Nevada border region

ISC IV 28 00 49 56.4–.79 38.44N–.02 118.69W–.02 9 49 1-8
NEIC IV 28 00 49 56.6 38.42N 118.72W 2 3.7L **¶16681493**
ISC Event type fe.
NEIC Event type fe. Felt at Gardnerville. After REN.

(518) Texas-Mexico border region

ISC IV 28 01 03 40.5–1.2 30.71N–.03 105.59W–.03 2–8 4.2b 180 1-127
IDC IV 28 01 03 40.7–.61 30.74N 105.77W 0 4.3,4.1b **¶16483643**
NEIC IV 28 01 03 42.0–1.6 30.74N 105.71W 6–11 4.4,4.4b
MEX IV 28 01 03 42.7–.47 30.66N 105.57W 10 4.4,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=5.7km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=195.0. Felt at El Paso and Van Horn, Texas.
MEX Error ellipse: s-maj=4.9km s-min=5.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 28 01 44 47.3–.51 38.57N–.04 141.92E–.03 50–4 4.9b,4.2s 598 1-155
NIED IV 28 01 44 00 38.60N 141.90E 53 4.8W,4.2s **¶16465548**
MOS IV 28 01 44 43.9–.99 38.62N 141.84E 33 5.3b,4.0s
ISCJB IV 28 01 44 46.9–.35 38.61N–.02 141.77E–.03 56–2 4.9b,4.1s
JMA IV 28 01 44 47.0–.10 38.56N 141.89E 48–1 4.8,4.1s
IDC IV 28 01 44 48.5–1.4 38.59N 141.79E 60–12 4.8,4.6
NEIC IV 28 01 44 49.0–.38 38.61N 141.75E 62–3 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ90.00000°. $M_0$1.90000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=105.8.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=40.4.
JMA Event type fe.
IDC Error ellipse: s-maj=11.7km s-min=8.4km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC IV 28 02 46 22.5–1.5 38.17N–.05 141.89E–.09 41–14 3.6b 33 1-73
ISCJB IV 28 02 46 21.5–.82 38.16N–.03 141.92E–.09 52–7 3.7b **¶17202272**
JMA IV 28 02 46 23.1–.10 38.20N 141.81E 47–1 3.6
IDC IV 28 02 46 23.4–2.3 38.19N 141.95E 52–20 3.7,3.7L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.1km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.6km s-min=14.1km az=99.0.

(518) Texas-Mexico border region

ISC IV 28 04 58 34.2–.54 30.69N–.04 105.66W–.02 10 3.5b 61 1-127
IDC IV 28 04 58 32.0–1.3 30.82N 105.89W 0 4.3L,4.0 **¶16483646**
ISCJB IV 28 04 58 33.4–.33 30.70N–.03 105.74W–.03 10 3.6b,3.3s
NEIC IV 28 04 58 34.6–1.8 30.68N 105.75W 9–13 4.1,4.1b
MEX IV 28 04 58 35.8–.90 30.71N 105.54W 10 4.1,4.1b
ISC Event type fe.
IDC Error ellipse: s-maj=32.5km s-min=7.9km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=174.6.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=187.0. Felt at El Paso, Texas. Moment Tensor Solution. s17 Moment tensor: Scale 10^{14}Nm; M_{rr}-2.10 $M_{\theta\theta}$-1.10 $M_{\phi\phi}$3.20 $M_{r\theta}$-0.24 $M_{\theta\phi}$-0.97 $M_{\phi r}$-1.92 Best double couple: NP1:ϕ_s6.00000°,δ65.00000°,λ-68.00000°. NP2:ϕ_s143.00000°,δ33.00000°,λ-128.00000°. Principal axes: T 3.9600,Plg17.0000° ,Azm80.0000°; N -1.0800,Plg20.0000°,Azm176.0000°; P -2.8900,Plg63.0000° ,Azm312.0000° $M_0$3.50000×10^{14}
MEX Error ellipse: s-maj=9.0km s-min=10.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 28 05 06 51.6–2.1 36.83N–.05 141.44E–.09 15–10 3.4b 22 1-57
NIED IV 28 05 06 00 36.90N 141.20E 14 3.6W **¶17202281**
IDC IV 28 05 06 49.2–1.3 36.97N 141.67E 0 3.6,3.5
ISCJB IV 28 05 06 51.3–1.6 36.82N–.05 141.5E–.10 19–8 3.4b,3.5
JMA IV 28 05 06 54.6–.10 36.85N 141.22E 36–1 3.4,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ50.00000°,λ-128.00000°. NP2:ϕ_s57.00000°,δ53.00000°,λ-54.00000°. $M_0$2.50000×10^{14}
IDC Error ellipse: s-maj=29.5km s-min=27.4km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=7.2km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA IV 28 05 09 04.2–.10 38.28N 141.80E 54–1 3.8 ¶600601242
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 28 08 05 57.7–1.5 38.23N–.06 141.9E–.10 47–14 3.7b 38 0-146
ISCJB IV 28 08 05 57.3–.81 38.24N–.04 141.84E–.10 59–7 3.8b **¶17202289**
JMA IV 28 08 05 58.4–.10 38.25N 141.77E 56–1 3.9
IDC IV 28 08 05 58.7–2.8 38.21N 141.82E 58–26 3.8,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=5.5km az=18.8.
JMA Event type fe.
IDC Error ellipse: s-maj=26.6km s-min=14.6km az=115.0.

(228) Near east coast of eastern Honshu

ISC IV 28 09 27 47.9–.32 37.49N–.03 141.70E–.03 45–2 5.7b,5.1s 1736 1-164
NIED IV 28 09 27 00 37.40N 141.80E 47 5.6W,5.1s **¶16465967**
BJI IV 28 09 27 44.9 37.38N 141.72E 46 5.4b,5.3b
MOS IV 28 09 27 45.2–.78 37.68N 141.63E 28 5.8b,5.1s
IDC IV 28 09 27 45.5–4.6 37.44N 141.75E 28–31 5.4,5.3
ISCJB IV 28 09 27 46.9–.29 37.44N–.02 141.69E–.01 49–2 5.6b,5.2s
JMA IV 28 09 27 46.7–.10 37.41N 141.78E 44–3 5.7,5.2s
NEIC IV 28 09 27 47.2–.08 37.46N 141.65E 38 5.8b,5.5W
GCMT IV 28 09 27 47.2–.10 37.50N 141.85E 43–0 5.6W,5.5W
NEIC IV 28 09 27 48.0–.00 37.29N 141.65E 48 5.6W,5.5W
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ38.00000°,λ92.00000°. NP2:ϕ_s197.00000°,δ52.00000°,λ88.00000°. $M_0$2.72000×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.7km az=97.3.
IDC Error ellipse: s-maj=11.5km s-min=8.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=146.0. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c198; s118,c262;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.98±.04 $M_{\theta\theta}$-0.38±.03; $M_{\phi\phi}$-2.60±.03; $M_{r\theta}$-0.05±.03; $M_{\theta\phi}$-0.73±.02; $M_{\phi r}$-0.38±.03; Best double couple: NP1: ϕ_s196.00000°,δ49.00000°,λ89.00000°. NP2:ϕ_s18.00000°,δ41.00000°,λ92.00000°. Principal axes: T 3.0060,Plg86.0000°,Azm91.0000°; N -0.1580,Plg1.0000°,Azm196.0000° ; P -2.8430,Plg4.0000°,Azm287.0000° $M_0$2.92500×10^{17}
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}2.28 $M_{\theta\theta}$-0.69 $M_{\phi\phi}$-1.58 $M_{r\theta}$0.11 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.07 Best double couple: NP1:ϕ_s18.00000° ,δ58.00000°,λ83.00000°. NP2:ϕ_s212.00000°,δ32.00000°,λ102.00000°. Principal axes: T 2.5600,Plg75.0000°,Azm266.0000°; N -0.4400,Plg6.0000°,Azm21.0000° ; P -2.1100,Plg13.0000°,Azm113.0000° $M_0$2.40000×10^{17}

(224) Hokkaido region

ISC IV 28 10 42 44.4–1.3 42.55N–.06 145.08E–.04 42–11 4.1b 74 1-92
NIED IV 28 10 42 00 42.60N 145.10E 26 4.0W **¶16649522**
JMA IV 28 10 42 43.4 42.53N 145.08E 53–1 4.2
MOS IV 28 10 42 43.3–1.3 42.52N 144.99E 53 4.3b
ISCJB IV 28 10 42 44.0–.67 42.57N–.05 145.06E–.05 54–5 4.6s,4.0b
NEIC IV 28 10 42 45.0–1.1 42.52N 145.00E 49–10 4.4b,4.0b
SKHL IV 28 10 42 44.4–.40 42.53N 145.06E 58–3 4.5b,4.0b
IDC IV 28 10 42 46.3–2.4 42.43N 144.99E 64–19 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ58.00000°,λ-165.00000°. NP2:ϕ_s303.00000°,δ77.00000°,λ-33.00000°. $M_0$1.16000×10^{15}
JMA Event type fe.
MOS Error ellipse: s-maj=14.3km s-min=9.3km az=78.1.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.4km az=151.7.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=9.5km az=138.0. Recorded [1 JMA] in eastern and southeastern Hokkaido.
IDC Error ellipse: s-maj=16.8km s-min=16.3km az=134.0.

(227) Eastern Honshu

ISC IV 28 12 39 30.1–1.3 37.05N–.05 140.88E–.06 9–7 3.7b 22 0-69
NIED IV 28 12 39 00 37.10N 140.90E 5 3.7W **¶16482358**
IDC IV 28 12 39 28.7–1.6 37.09N 141.08E 0 3.8,3.7
ISCJB IV 28 12 39 29.0–1.0 37.07N–.04 141.00E–.07 8–4 3.6b,3.7
JMA IV 28 12 39 31.2 37.09N 140.83E 8–1 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ16.00000°,λ-74.00000°. NP2:ϕ_s234.00000°,δ74.00000°,λ-94.00000°. $M_0$3.36000×10^{14}
IDC Error ellipse: s-maj=32.7km s-min=25.2km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.3km az=19.3.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 28 14 01 49.6–1.6 36.86N–.04 141.26E–.09 31–9 3.2b 25 0-61
IDC IV 28 14 01 45.0–1.6 36.72N 141.51E 0 3.5,3.5 **¶17202305**
ISCJB IV 28 14 01 48.4–.90 36.84N–.04 141.28E–.08 41–10 3.2b,3.5
JMA IV 28 14 01 50.3–.10 36.89N 141.11E 50–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=20.3km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.5km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC IV 28 16 24 47.1–1.7 36.60N–.08 140.74E–.09 13–7 3.6b 19 0-60
IDC IV 28 16 24 38.2–1.6 35.96N 141.43E 0 3.9,3.7 **¶600601657**
ISCJB IV 28 16 24 46.9–1.2 36.63N–.05 140.81E–.10 22–5 3.6s,3.6b
JMA IV 28 16 24 48.8 36.70N 140.61E 7–1 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=43.5km s-min=19.5km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.1km az=31.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 28 16 43 51.9–1.6 38.58N–.05 142.0E–.10 44–13 3.5b 27 0-73
NIED IV 28 16 43 00 38.60N 141.90E 38 3.7W **¶17202315**
ISCJB IV 28 16 43 50.8–.97 38.58N–.04 142.0E–.10 51–8 3.5b
JMA IV 28 16 43 52.3–.10 38.62N 141.91E 49–1 3.7
IDC IV 28 16 43 53.0–2.6 38.64N 141.86E 53–24 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s19.00000°,δ73.00000°,λ93.00000°. $M_0$3.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=6.0km az=12.7.
JMA Event type fe.
IDC Error ellipse: s-maj=36.1km s-min=16.9km az=91.0.

(228) Near east coast of eastern Honshu

ISC IV 28 17 17 55.4–1.0 39.12N–.04 142.37E–.06 32–6 4.2b,3.3s 96 1-88
NIED IV 28 17 17 00 39.10N 142.40E 35 4.2W,3.3s **¶602558008**
MOS IV 28 17 17 53.8–1.2 39.17N 142.52E 33 4.4b,3.3s
ISCJB IV 28 17 17 54.4–.61 39.13N–.03 142.46E–.05 39–4 4.2b,3.2s
JMA IV 28 17 17 55.1–.10 39.14N 142.39E 35–1 4.3,3.2s
IDC IV 28 17 17 58.0–2.0 39.09N 142.30E 52–18 4.2,4.1L
NEIC IV 28 17 17 58.2–.89 39.09N 142.39E 57–8 4.6b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ9.00000°,λ-53.00000°. NP2:ϕ_s163.00000°,δ82.00000°,λ-96.00000°. $M_0$2.50000×10^{15}
MOS Error ellipse: s-maj=9.3km s-min=6.4km az=86.4.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=27.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=11.8km az=113.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.7km az=113.0. Recorded [3 JMA] in Iwate.

(277) Jawa

ISC IV 28 17 41 59.6–.62 8.83S–.06 109.85E–.03 51–5 4.7b,3.9s 172 1-155
NEIC IV 28 17 41 56.1–1.6 8.88S 109.78E 24–11 4.9b,3.9s **¶16476117**
MOS IV 28 17 41 57.1–1.2 8.73S 110.01E 43 5.0b,3.9s
DJA IV 28 17 41 57.7–.70 9S–3.0 110E–1.0 12–5 5.3b,5.3
ISCJB IV 28 17 41 59.0–.51 8.91S–.05 109.82E–.02 64–4 4.6b,5.3
IDC IV 28 17 41 59.3–.65 8.81S 109.94E 47–6 4.5,4.4
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=223.0. Felt [II] at Bantul and Yogyakarta.
MOS Error ellipse: s-maj=14.2km s-min=7.1km az=112.3.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.5km az=13.0.
IDC Error ellipse: s-maj=17.2km s-min=10.6km az=63.0.

(229) Off east coast of Honshu

ISC IV 28 20 59 20.2–.73 37.82N–.05 142.65E–.06 22–5 4.2b,3.4s 76 1-145
NIED IV 28 20 59 00 37.90N 142.60E 17 4.2W,3.4s **¶16505567**
ISCJB IV 28 20 59 17.7–1.5 37.82N–.04 142.67E–.04 15–9 4.2b,3.4s
JMA IV 28 20 59 17.4–.20 37.83N 142.65E 23–3 4.3,3.4s
IDC IV 28 20 59 20.4–.69 37.82N 142.60E 23–3 4.1,4.1
NEIC IV 28 20 59 22.3–.76 37.83N 142.63E 38–6 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ26.00000°,λ-80.00000°. NP2:ϕ_s188.00000°,δ65.00000°,λ-95.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.4km az=4.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=11.4km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=127.0. Recorded [1 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC IV 28 22 04 32.2–.80 37.63N–.04 141.63E–.07 48–7 3.6b 39 1-77
NIED IV 28 22 04 00 37.60N 141.60E 56 3.9W **¶600601958**
ISCJB IV 28 22 04 30.1–.85 37.60N–.04 141.70E–.08 49–6 3.7b
IDC IV 28 22 04 32.4–.78 37.58N 141.62E 54–7 3.8,3.7
JMA IV 28 22 04 32.2–.10 37.65N 141.58E 45–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ39.00000°,λ55.00000°. NP2:ϕ_s232.00000°,δ58.00000°,λ115.00000°. $M_0$6.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.8km az=15.6.
IDC Error ellipse: s-maj=14.2km s-min=9.4km az=128.0.
JMA Event type fe.

(226) Near west coast of eastern Honshu

ISC IV 28 22 21 55.5–1.2 37.07N–.03 138.69E–.03 11–9 3.8b,3.1s 30 0-82
NIED IV 28 22 21 00 37.00N 138.70E 5 3.8W,3.1s **¶602558013**
IDC IV 28 22 21 53.6–1.2 37.14N 138.67E 0 3.9,3.8
ISCJB IV 28 22 21 55.8–.38 37.06N–.02 138.68E–.04 25–4 3.7b,3.1s
JMA IV 28 22 21 56.2 37.04N 138.71E 9–1 3.5,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ43.00000°,λ80.00000°. NP2:ϕ_s52.00000°,δ48.00000°,λ99.00000°. $M_0$6.06000×10^{14}
IDC Error ellipse: s-maj=30.6km s-min=10.6km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=16.1.
JMA Event type fe.

(227) Eastern Honshu

ISC IV 28 23 49 34.1–1.1 37.08N–.05 140.85E–.06 9–6 18 0-57
IDC IV 28 23 49 32.8–1.9 36.89N 140.87E 0 3.6,3.4b **¶17202333**
ISCJB IV 28 23 49 34.2–.89 37.12N–.03 140.85E–.07 10–4 3.4b,3.4b
JMA IV 28 23 49 35.3 37.14N 140.79E 4–1 3.2,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=21.4km az=6.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.1km az=16.0.
JMA Event type fe.

(224) Hokkaido region

ISC	**IV**	**29 00 00 00.7–1.5**	**42.13N–.05**	**139.18E–.04**	**13–9**	**4.0b**	**41**	**0-88**
ISCJB	IV	28 23 59 59.9–.81	42.16N–.05	139.10E–.05	19–7	4.2s,3.9b		¶600602068
NIED	IV	29 00 00 00	42.20N	139.30E	8	4.0W,3.9b		
JMA	IV	29 00 00 01.5–.10	42.11N	139.20E	18–1	3.9,3.9b		
IDC	IV	29 00 00 03.6–3.8	42.11N	139.12E	33–29	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.5km az=157.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ23.00000°,λ53.00000°. NP2:ϕ_s42.00000°,δ72.00000°,λ104.00000°. $M_0$1.14000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=16.0km s-min=12.8km az=144.0.

(229) Off east coast of Honshu

ISC	**IV**	**29 01 13 52.4–.53**	**37.47N–.04**	**142.46E–.04**	**20–3**	**4.8b,4.2s**	**342**	**1-146**
NIED	IV	29 01 13 00	37.50N	142.60E	20	4.5W,4.2s		¶16482372
IDC	IV	29 01 13 49.2–.53	37.46N	142.55E	0	4.6,4.6L		
BJI	IV	29 01 13 50.6	37.48N	142.56E	28	4.9b,4.8b		
JMA	IV	29 01 13 50.9–.20	37.47N	142.59E	25	4.6,4.8b		
ISCJB	IV	29 01 13 51.6–.80	37.47N–.02	142.52E–.03	26–5	4.7b,4.1s		
MOS	IV	29 01 13 52.9–1.1	37.57N	142.46E	33	5.1b,4.0s		
NEIC	IV	29 01 13 54.4–.68	37.49N	142.45E	32–4	4.8b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ8.00000°,λ95.00000°. NP2:ϕ_s36.00000°,δ82.00000°,λ89.00000°. $M_0$6.95000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.1km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=145.7.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=108.8.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.5km az=133.0. Recorded [1 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 01 25 07.1–.72**	**38.22N–.04**	**142.12E–.10**	**39–5**	**3.6b**	**38**	**1-146**
NIED	IV	29 01 25 00	38.30N	142.10E	32	3.6W		¶17202338
ISCJB	IV	29 01 25 06.8–.86	38.24N–.04	142.09E–.08	52–8	3.5b		
JMA	IV	29 01 25 07.8–.10	38.28N	142.03E	49–1	3.8		
IDC	IV	29 01 25 10.8–2.8	38.26N	142.04E	73–25	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ29.00000°,λ161.00000°. NP2:ϕ_s205.00000°,δ81.00000°,λ63.00000°. $M_0$2.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.6km az=15.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.7km s-min=18.2km az=105.0.

(232) Western Honshu

ISC	**IV**	**29 03 56 07.8–1.1**	**35.97N–.03**	**133.36E–.04**	**8–9**		**20**	**0-56**
NIED	IV	29 03 56 00	36.00N	133.30E	14	3.5W		¶17202345
ISCJB	IV	29 03 56 07.7–.65	35.99N–.03	133.31E–.04	15–9	3.4b		
JMA	IV	29 03 56 07.8	35.98N	133.33E	16	4.0		
IDC	IV	29 03 56 07.5–1.3	36.03N	133.20E	0	3.5,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ76.00000°,λ170.00000°. NP2:ϕ_s338.00000°,δ80.00000°,λ15.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.4km az=165.5.
JMA Event type fe.
IDC Error ellipse: s-maj=28.6km s-min=16.3km az=129.0.

(232) Western Honshu

JMA	**IV**	**29 04 00 55.8**	**35.98N**	**133.33E**	**17**	**3.9**		
NIED	IV	29 04 00 00	36.00N	133.30E	8	3.7W		¶600602210

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ57.00000°,λ-3.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ-147.00000°. $M_0$3.40000×10^{14}

(235) Kyushu

ISC	**IV**	**29 04 38 37.6–.60**	**30.25N–.04**	**130.90E–.04**	**51–5**	**4.8b,3.8s**	**333**	**0-155**
NIED	IV	29 04 38 00	30.20N	130.90E	50	4.7W,3.8s		¶16482376
BJI	IV	29 04 38 35.6	30.13N	130.94E	54	4.7b,4.6b		
MOS	IV	29 04 38 35.7–.92	30.36N	130.83E	46	5.3b,4.6b		
ISCJB	IV	29 04 38 36.1–.33	30.24N–.02	130.90E–.03	54–2	4.8b,3.8s		
JMA	IV	29 04 38 36.9–.10	30.24N	130.95E	44–1	4.6,3.8s		
NEIC	IV	29 04 38 37.8–.48	30.26N	130.78E	51–4	4.8b,3.8s		
IDC	IV	29 04 38 37.8–1.2	30.29N	130.74E	51–10	4.7,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ55.00000°,λ-170.00000°. NP2:ϕ_s255.00000°,δ82.00000°,λ-36.00000°. $M_0$1.34000×10^{16}
MOS Error ellipse: s-maj=8.8km s-min=4.7km az=110.3.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=40.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=120.0. Recorded [3 JMA] on Tanega-shima.
IDC Error ellipse: s-maj=13.0km s-min=7.5km az=102.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 05 30 01.7–2.0**	**36.94N–.05**	**141.41E–.09**	**11–10**	**3.6b**	**20**	**1-61**
NIED	IV	29 05 30 00	36.90N	141.40E	5	3.5W		¶17202349
ISCJB	IV	29 05 30 01.4–1.3	36.93N–.04	141.44E–.08	16–9	3.6b		
JMA	IV	29 05 30 03.3–.10	36.96N	141.32E	27–1	3.9		
IDC	IV	29 05 30 05.3–2.1	36.29N	141.11E	0	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ61.00000°,λ-176.00000°. NP2:ϕ_s245.00000°,δ87.00000°,λ-29.00000°. $M_0$1.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=7.2km az=13.5.
JMA Event type fe.
IDC Error ellipse: s-maj=43.3km s-min=22.9km az=54.0.

(228) Near east coast of eastern Honshu

JMA	**IV**	**29 05 45 37.7–.10**	**37.01N**	**141.13E**	**50–1**	**3.7**		
NIED	IV	29 05 45 00	37.00N	141.20E	68	3.5W		¶600602243

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ35.00000°,λ175.00000°. NP2:ϕ_s350.00000°,δ87.00000°,λ55.00000°. $M_0$2.33000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 06 54 47.4–.39**	**39.35N–.03**	**142.13E–.04**	**46–2**	**4.9b,4.2s**	**527**	**0-151**
NIED	IV	29 06 54 00	39.30N	142.00E	53	4.9W,4.2s		¶16482377
BJI	IV	29 06 54 45.2	39.19N	142.16E	54	5.0b,4.9b		
ISCJB	IV	29 06 54 47.9–.26	39.36N–.02	141.90E–.03	57–2	4.9b,4.2s		
JMA	IV	29 06 54 48.1–.10	39.34N	142.06E	48–1	4.8,4.2s		
NEIC	IV	29 06 54 49.7–.50	39.33N	141.88E	60–4	4.9b,4.2s		
IDC	IV	29 06 54 50.2–.77	39.34N	141.96E	70–5	4.6,4.5		
MOS	IV	29 06 54 50.0–.96	39.56N	141.85E	72	5.1b,4.5		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ80.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ94.00000°. $M_0$2.16000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=135.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=136.0. Felt at Misawa. Recorded [4 JMA] in Iwate.
IDC Error ellipse: s-maj=13.4km s-min=11.0km az=111.0.
MOS Error ellipse: s-maj=6.5km s-min=4.4km az=99.2.

(135) Near coast of central Chile

ISC	**IV**	**29 07 31 51.4–1.3**	**34.02S–.04**	**72.28W–.06**	**23–9**	**5.0b,4.1s**	**149**	**0-176**
IDC	IV	29 07 31 48.0–.62	33.96S	72.11W	0	4.4,4.3		¶16483654
ISCJB	IV	29 07 31 49.0–1.1	34.05S–.03	72.46W–.04	18–8	4.8b,4.0s		
NEIC	IV	29 07 31 50.0	34.06S	72.28W	28	5.0b,4.5L		
GUC	IV	29 07 31 50.1–.79	34.06S	72.28W	28–4	4.5L,4.5L		
BJI	IV	29 07 31 52.2	34.00S	72.20W	27	5.1s,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=29.1km s-min=16.6km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=31.7.
NEIC Event type fe. Felt at San Antonio, Santiago, Valparaiso and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=5.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 08 29 07.3–1.1**	**36.58N–.04**	**141.05E–.08**	**36–1**	**3.6b**	**32**	**0-91**
NIED	IV	29 08 29 00	36.60N	140.90E	41	3.7W		¶17202365
ISCJB	IV	29 08 29 06.5–.63	36.57N–.04	141.02E–.06	48–6	3.6b		
IDC	IV	29 08 29 08.1–1.9	36.55N	141.01E	43–21	3.8,3.7		
JMA	IV	29 08 29 08.0–.10	36.61N	140.90E	50–1	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ24.00000°,λ-60.00000°. NP2:ϕ_s246.00000°,δ69.00000°,λ-103.00000°. $M_0$4.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=22.4.
IDC Error ellipse: s-maj=16.8km s-min=10.9km az=71.0.
JMA Event type fe.

(706) Northern Sumatera

ISC	**IV**	**29 08 56 49.0–.26**	**4.04N–.03**	**95.80E–.03**	**58–1**	**5.7b,4.8s**	**1437**	**1-173**
BJI	IV	29 08 56 44.3	3.84N	95.67E	53	5.7b,5.3b		¶16482384
MOS	IV	29 08 56 47.3–1.0	4.20N	95.88E	54	6.0b,4.6s		
GCMT	IV	29 08 56 47.9–.20	3.97N	96.04E	75–1	5.4W,4.6s		
ISCJB	IV	29 08 56 47.9–.33	4.02N–.02	95.82E–.02	62–2	5.6b,4.6s		
NEIC	IV	29 08 56 47.7–.12	4.03N	95.76E	44	5.7,5.7b		
IDC	IV	29 08 56 48.9–.39	4.15N	95.91E	55–3	5.5,5.3b		
DJA	IV	29 08 56 49.5–.30	4N–2.0	96E–3.0	56–2	6.0,5.8b		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c129; s109,c209;Duration: 1$\dot{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.03 $M_{\theta\theta}$0.83±.03; $M_{\phi\phi}$-0.66±.03; $M_{r\theta}$0.79±.02; $M_{\theta\phi}$-1.39±.03; $M_{\phi r}$0.18±.03; Best double couple: NP1:ϕ_s257.00000°,δ87.00000°,λ-152.00000°. NP2:ϕ_s166.00000°,δ62.00000°,λ-3.00000°. Principal axes: T 1.8380,Plg17.0000°,Azm28.0000°; N -0.1260,Plg62.0000°,Azm263.0000°; P -1.7130,Plg21.0000°,Azm125.0000° $M_0$1.77600×10^{17}
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Banda Aceh and [III] at Meulaboh. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56 $M_{\theta\theta}$0.18 $M_{\phi\phi}$0.38 $M_{r\theta}$1.06 $M_{\theta\phi}$-0.69 $M_{\phi r}$-0.25 Best double couple: NP1:ϕ_s288.00000°,δ76.00000°,λ-116.00000°. NP2:ϕ_s173.00000°,δ30.00000°,λ-29.00000°. Principal axes: T 1.4200,Plg26.0000°,Azm39.0000°; N -0.0800,Plg26.0000°,Azm295.0000°; P -1.3400,Plg52.0000°,Azm168.0000° $M_0$1.40000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 12 24 55.5–1.1**	**36.68N–.04**	**140.63E–.08**	**10–7**	**3.6b**	**18**	**0-87**
ISCJB	IV	29 12 24 54.3–.96	36.63N–.04	140.74E–.07	12–4	4.0b,3.7s		¶602558026
IDC	IV	29 12 24 54.0–1.7	36.69N	140.61E	0	3.7s,3.7		
JMA	IV	29 12 24 55.8	36.69N	140.62E	7–1	3.0,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=27.9.
IDC Error ellipse: s-maj=33.1km s-min=18.0km az=15.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 12 53 54.5–.65**	**34.74N–.05**	**140.10E–.05**	**60–5**	**4.0b**	**38**	**0-75**
NIED	IV	29 12 53 00	34.80N	140.10E	59	4.0W		¶17202383
ISCJB	IV	29 12 53 52.9–.42	34.71N–.04	140.11E–.05	63–3	4.0b		
JMA	IV	29 12 53 53.3–.20	34.75N	140.12E	61–2	3.5		
IDC	IV	29 12 53 54.7–.80	34.70N	140.06E	62–6	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ39.00000°,λ153.00000°. NP2:ϕ_s359.00000°,δ73.00000°,λ55.00000°. $M_0$1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.2km s-min=5.3km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 13 02 28.0–2.1**	**39.06N–.05**	**142.40E–.09**	**3–13**		**18**	**1-59**
NIED	IV	29 13 02 00	39.00N	142.50E	53	3.9W		¶17202384
ISCJB	IV	29 13 02 28.4–1.6	39.03N–.05	142.5E–.10	20–12	3.5b		
JMA	IV	29 13 02 29.4–.10	39.07N	142.44E	32–2	3.9		
IDC	IV	29 13 02 34.6–6.8	39.10N	141.97E	86–86	3.4,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ35.00000°,λ-111.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ-76.00000°. $M_0$9.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=6.7km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=193.8km s-min=21.7km az=115.0.

(243) Taiwan region

ISC	**IV**	**29 13 12 47.4–.28**	**21.20N–.02**	**122.03E–.03**	**195–2**	**5.5b**	**1389**	**1-175**
NIED	IV	29 13 12 00	21.10N	121.90E	110	5.2W		¶16483657
BJI	IV	29 13 12 43.4	21.12N	122.29E	177	5.5b,5.4b		
NEIC	IV	29 13 12 45.0–.00	21.18N	121.98E	177	5.5b,5.4b		
GCMT	IV	29 13 12 46.2–.10	21.24N	121.92E	185–1	5.3W,5.4b		
ISCJB	IV	29 13 12 46.2–.12	21.22N–.01	122.00E–.01	189–1	5.5b,5.4b		
JMA	IV	29 13 12 46.3–.30	21.14N	121.90E	175	5.3,5.4b		
NEIC	IV	29 13 12 46.2–.33	21.13N	122.01E	181–3	5.5b,5.4W		
MOS	IV	29 13 12 46.1–.90	21.20N	122.08E	194	5.6b,4.1s		
IDC	IV	29 13 12 48.6–.73	21.14N	122.12E	206–6	5.6,5.1		
BKK	IV	29 13 12 48.1–.60	21N–4.0	122E–5.0	205–7	6.2,5.4b		
TAP	IV	29 13 12 48.3	21.35N	122.07E	178–1	5.9L,5.4b		
MAN	IV	29 13 12 50	20.91N	121.89E	183	5.7b,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ52.00000°,λ174.00000°. NP2:ϕ_s307.00000°,δ86.00000°,λ38.00000°. $M_0$7.41000×10^{16}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ75.00000°,λ-59.00000°. NP2:ϕ_s181.00000°,δ33.00000°,λ-152.00000°. Principal axes: T 1.0700,Plg23.0000°,Azm134.0000°; N 0.0900,Plg29.0000°,Azm239.0000°; P -1.1600,Plg50.0000°,Azm11.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c139; s116,c204; Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53±.02 $M_{\theta\theta}$-0.15±.02; $M_{\phi\phi}$0.68±.02; $M_{r\theta}$-0.92±.01; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$-0.25±.02; Best double couple: NP1:ϕ_s62.00000°,δ75.00000°,λ-56.00000°. NP2:ϕ_s173.00000°,δ36.00000°,λ-154.00000°. Principal axes: T 1.2630,Plg23.0000°,Azm127.0000°; N 0.0340,Plg32.0000°,Azm233.0000°; P -1.2960,Plg49.0000°,Azm9.0000° $M_0$1.28000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=2.1.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.8km az=96.0. Felt [II] at Kaohsiung. Also felt at Chungli, Fengyuan, Taichung, Tainan, Taipei and Tanshui. Felt [III PIVS] at Basco, Philippines. Also felt at Ballesteros. Recorded [2 TAP] at Changua, Chiayi, Kaoshiung, Pingtung, Taichung, Tainan, Taitung and Yunlin; [1 TAP] at Nantou and Penghu. Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ63.00000°,λ-60.00000°. NP2:ϕ_s179.00000°,δ39.00000°,λ-135.00000°. Principal axes: T 1.4000,Plg13.0000°,Azm120.0000°; N -0.0100,Plg27.0000°,Azm217.0000°; P -1.3900,Plg60.0000°,Azm6.0000°
MOS Error ellipse: s-maj=6.3km s-min=3.7km az=110.1.
IDC Error ellipse: s-maj=6.7km s-min=4.7km az=62.0.
TAP C.
MAN Event type fe. INTENSITY III - BASCO BATANES.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 14 31 48.6–1.7**	**37.20N–.04**	**141.74E–.07**	**14–10**	**3.4b**	**23**	**1-61**
NIED	IV	29 14 31 00	37.20N	141.50E	47	3.6W		¶17202388
IDC	IV	29 14 31 46.6–1.3	37.11N	141.83E	0	3.6,3.4		
JMA	IV	29 14 31 52.4–.10	37.22N	141.55E	46–2	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ41.00000°,λ77.00000°. NP2:ϕ_s62.00000°,δ51.00000°,λ101.00000°. $M_0$2.92000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=22.8km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 14 33 32.8–1.7**	**36.43N–.05**	**140.89E–.07**	**24–12**	**3.6b**	**22**	**0-69**
NIED	IV	29 14 33 00	36.30N	140.90E	35	3.8W		¶600602690
IDC	IV	29 14 33 29.2–.90	36.38N	140.85E	0	3.8,3.7		
ISCJB	IV	29 14 33 32.9–.91	36.38N–.05	140.90E–.08	41–7	4.0s,3.7b		
JMA	IV	29 14 33 33.1–.10	36.34N	140.90E	40–1	3.8,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ16.00000°,λ100.00000°. NP2:ϕ_s31.00000°,δ75.00000°,λ87.00000°. $M_0$6.34000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=16.1km az=1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.9km az=35.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**IV**	**29 17 04 12.7–.78**	**35.35N–.03**	**140.92E–.04**	**17–4**	**4.8b,4.0s**	**307**	**0-148**
NIED	IV	29 17 04 00	35.50N	141.00E	17	4.5W,4.0s		¶602558027

IDC IV 29 17 04 10.3–.47 35.33N 140.90E 0 4.5,4.5
BJI IV 29 17 04 10.7 35.10N 140.96E 22 4.8b,4.5b
ISCJB IV 29 17 04 10.8–.64 35.30N–.02 140.93E–.03 15–4 4.7b,4.0s
JMA IV 29 17 04 12.6–.10 35.46N 140.92E 24–1 4.7,4.0s
MOS IV 29 17 04 13.4–1.0 35.32N 140.92E 33 4.8b,4.0s
NEIC IV 29 17 04 13.3–1.4 35.27N 140.88E 21–9 4.9b,4.0s
ISC Event type fe.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s171.00000°,δ32.00000°,λ148.00000°. NP2:ϕ_s289.00000°,δ74.00000°,λ62.00000°. $M_0$7.11000×10^{15}
IDC Error ellipse: s-maj=14.9km s-min=11.0km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.7km az=40.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.5km az=108.4.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=126.0. Felt at Narita. Recorded [3 JMA] in Chiba and Ibaraki.

(162) South Island

WEL IV 29 17 48 02.4–.07 43.59S 172.42E 10–0 3.8L ¶16485262

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(460) Wyoming

ISC IV 29 18 10 01.6–.72 43.57N–.05 105.23W–.05 0 65 1-62
ISCJB IV 29 18 10 00.4–.37 43.65N–.03 105.19W–.04 0 4.0b,2.9s **¶17202401**
IDC IV 29 18 10 00.9–.92 43.46N 105.39W 0 3.9,3.8b
NEIC IV 29 18 10 02.5–.29 43.65N 105.23W 0 3.6L,3.8b
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.7km s-min=4.3km az=143.4.
IDC Error ellipse: s-maj=18.2km s-min=9.0km az=155.0.
NEIC Event type fm. Error ellipse: s-maj=3.8km s-min=3.4km az=52.0. 73 km [45 miles] SSE of Gillette. Suspected Mining explosion.

(255) Cebu

MAN IV 29 18 27 19 10.24N 123.01E 1 4.5b,3.3L ¶601669089

MAN Event type fe. INTENSITY III - HINIGARAN NEGROS OCCIDENTAL.

(228) Near east coast of eastern Honshu

ISC IV 29 18 44 32.9–1.3 38.42N–.06 142.22E–.10 41 3.1b 18 1-62
IDC IV 29 18 44 26.6–1.9 38.38N 142.66E 0 3.5,3.3 **¶17202405**
ISCJB IV 29 18 44 31.1–.93 38.39N–.05 142.29E–.09 41 3.3b,3.3
JMA IV 29 18 44 32.7–.10 38.39N 142.15E 38–1 3.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=51.2km s-min=27.6km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.3km az=177.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(159) North Island

WEL IV 29 18 50 52.0–.11 38.60S 177.87E 25–1 4.0L
NEIC IV 29 18 50 51.8 38.61S 177.92E 26 4.2b,4.0L **¶16485263**
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.8km az=90.0. Felt from Gisborne to Hawke"s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Gisborne. After WEL.

(159) North Island

WEL IV 29 18 53 24.2–.11 38.61S 177.88E 26–1 3.8L ¶16485264

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=1.0km az=90.0. Felt from Gisborne to Hawke"s Bay, maximum reported intensity MM 4.

(162) South Island

ISC IV 29 19 08 03.1–.69 43.23S–.03 172.10E–.02 15–4 4.7b,4.1s 211 0-159
IDC IV 29 19 08 01.8–.61 43.06S 172.00E 0 4.4,4.4L **¶16485188**
ISCJB IV 29 19 08 02.3–.38 43.28S–.03 172.18E–.04 23–3 4.5b,4.2s
BJI IV 29 19 08 02.2 43.50S 171.61E 8 5.3b,5.0b
WEL IV 29 19 08 04.2–.08 43.18S 171.99E 11–0 5.2L,5.0b
NEIC IV 29 19 08 04.1 43.18S 172.01E 9 5.2L,4.8W
ISC Event type fe.
IDC Error ellipse: s-maj=20.6km s-min=10.2km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=2.6km az=138.3.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Marlborough to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt [III] at Christchurch. Also felt at Darfield and Rangora. After WEL. Moment Tensor Solution. s35 Moment tensor: Scale 10^{16}Nm; M_{rr}0.54 $M_{\theta\theta}$0.77 $M_{\phi\phi}$-1.30 $M_{r\theta}$0.30 $M_{\theta\phi}$-1.37 $M_{\phi r}$0.38 Best double couple: NP1:ϕ_s251.00000°,δ88.00000°,λ-168.00000°. NP2: ϕ_s161.00000°,δ78.00000°,λ-2.00000°. Principal axes: T 1.4600,Plg7.0000°,Azm25.0000° ; N 0.6100,Plg78.0000°,Azm262.0000°; P -2.0700,Plg10.0000°,Azm117.0000° $M_0$1.80000×10^{16}

(228) Near east coast of eastern Honshu

ISC IV 29 20 21 13.0–.92 36.78N–.03 140.52E–.04 13–7 3.6b 24 0-57
NIED IV 29 20 21 00 36.70N 140.60E 8 3.5W **¶17202412**
ISCJB IV 29 20 21 12.5–.58 36.75N–.03 140.63E–.05 18–5 3.5b
JMA IV 29 20 21 13.3 36.77N 140.53E 10–1 3.7
IDC IV 29 20 21 15.8–3.3 36.72N 140.66E 39–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ42.00000°,λ-36.00000°. NP2:ϕ_s279.00000°,δ67.00000°,λ-126.00000°. $M_0$1.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=19.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s297.00000°,δ53.00000°,λ-118.00000°. NP2:ϕ_s158.00000°,δ45.00000°,λ-59.00000°. Principal axes: T Plg4.0000°,Azm46.0000°; N Plg22.0000°,Azm314.0000°; P Plg68.0000° ,Azm146.0000°
IDC Error ellipse: s-maj=33.7km s-min=19.6km az=80.0.

(229) Off east coast of Honshu

ISC IV 29 20 42 07.3–1.1 37.54N–.03 142.34E–.04 3–6 4.7b,4.5s 353 1-146
NIED IV 29 20 42 00 37.60N 142.30E 14 4.4W,4.5s **¶16485195**
IDC IV 29 20 42 07.5–.48 37.55N 142.28E 0 4.5,4.4
BJI IV 29 20 42 07.2 37.49N 142.38E 19 5.0b,4.7b
ISCJB IV 29 20 42 07.2–.76 37.54N–.02 142.41E–.03 15–5 4.7b,4.3s
JMA IV 29 20 42 09.5–.20 37.60N 142.20E 8–3 4.5,4.3s
NEIC IV 29 20 42 10.6–1.3 37.54N 142.36E 24–9 4.8b,4.3s
MOS IV 29 20 42 12.0–.86 37.83N 142.22E 33 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ18.00000°,λ-124.00000°. NP2:ϕ_s33.00000°,δ75.00000°,λ-79.00000°. $M_0$5.12000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.6km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=40.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=127.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=110.7.

(228) Near east coast of eastern Honshu

ISC IV 29 21 11 36.0–1.2 36.36N–.03 141.06E–.06 25–9 3.9b,3.5s 34 0-91
NIED IV 29 21 11 00 36.30N 141.10E 32 4.1W,3.5s **¶17202417**
ISCJB IV 29 21 11 35.5–.72 36.34N–.03 141.18E–.07 36–7 3.8b,3.6s
JMA IV 29 21 11 36.4–.10 36.33N 141.08E 46–1 4.0,3.6s
IDC IV 29 21 11 39.7–2.0 36.24N 141.05E 60–20 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ9.00000°,λ-102.00000°. NP2:ϕ_s206.00000°,δ81.00000°,λ-88.00000°. $M_0$1.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.8km az=4.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=9.6km az=68.0.

(228) Near east coast of eastern Honshu

ISC IV 29 22 19 31.1–.33 38.86N–.03 142.07E–.03 44–2 5.3b,4.8s 1032 0-155
NIED IV 29 22 19 00 38.80N 142.10E 47 5.1W,4.8s **¶16485197**
BJI IV 29 22 19 27.1 38.72N 142.32E 44 5.3b,5.1b
JMA IV 29 22 19 30.9–.10 38.84N 142.11E 44–2 5.2,5.1b
MOS IV 29 22 19 30.1–1.0 38.93N 142.00E 46 5.6b,4.8s
ISCJB IV 29 22 19 31.4–.29 38.84N–.02 141.95E–.02 55–2 5.2b,4.7s
IDC IV 29 22 19 32.5–1.5 38.84N 142.01E 55–13 5.0,4.9
GCMT IV 29 22 19 33.4–.20 38.92N 142.19E 50–0 5.2W,4.9
NEIC IV 29 22 19 33.4–.41 38.86N 141.92E 59–3 5.2b,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ21.00000°,λ73.00000°. NP2:ϕ_s22.00000°,δ69.00000°,λ96.00000°. $M_0$5.91000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ62.00000°,λ96.00000°. NP2: ϕ_s183.00000°,δ28.00000°,λ79.00000°. Principal axes: T Plg72.0000°,Azm298.0000° ; N Plg5.0000°,Azm193.0000°; P Plg17.0000°,Azm101.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=97.6.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.4.
IDC Error ellipse: s-maj=11.5km s-min=8.3km az=115.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c114; s101,c191; Duration: 1τ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.02 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.63±.01; $M_{r\theta}$0.20±.01; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$0.40±.01; Best double couple: NP1:ϕ_s19.00000°,δ62.00000° ,λ99.00000°. NP2:ϕ_s181.00000°,δ29.00000°,λ74.00000°. Principal axes: T 0.8110,Plg72.0000°,Azm308.0000°; N -0.0230,Plg8.0000°,Azm195.0000° ; P -0.7880,Plg17.0000°,Azm103.0000° $M_0$0.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.

(48) Baja California

ISC IV 29 22 32 00.6–.88 28.88N–.04 113.06W–.04 27–5 5.0b,4.8s 921 2-144
ISCJB IV 29 22 31 56.3–.21 28.85N–.02 112.99W–.02 10 4.8b,4.8s **¶16485198**
BJI IV 29 22 31 56.9 28.78N 113.20W 19 5.5b,5.4s
MEX IV 29 22 31 56.4–.35 28.81N 113.19W 8–3 5.1,5.4s
IDC IV 29 22 31 56.6–.55 29.00N 113.10W 0 4.7,4.7s
MOS IV 29 22 31 57.1–1.4 28.77N 113.09W 19 5.2b,5.0s
NEIC IV 29 22 31 58.3–.30 28.74N 113.13W 10 5.2W,5.0b
GCMT IV 29 22 31 58.3–.20 28.81N 113.12W 17–0 5.3W,5.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.5km az=27.6.
MEX Error ellipse: s-maj=2.8km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=9.3km az=47.0.
MOS Error ellipse: s-maj=7.5km s-min=3.9km az=94.7.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=42.0. Felt at Guerrero Negro, Baja California Sur. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}0.51 $M_{\theta\theta}$-6.76 $M_{\phi\phi}$6.25 $M_{r\theta}$-0.15 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.89 Best double couple: NP1:ϕ_s309.00000° ,δ78.00000°,λ168.00000°. NP2:ϕ_s42.00000°,δ78.00000°,λ12.00000°. Principal axes: T 6.8900,Plg17.0000°,Azm266.0000°; N -0.0500,Plg73.0000°,Azm86.0000° ; P -6.8400,Plg0.0000°,Azm356.0000° $M_0$6.90000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c108; s114,c201; Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.40±.02 $M_{\theta\theta}$-0.80±.02; $M_{\phi\phi}$1.20±.02; $M_{r\theta}$-0.43±.06; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$-0.14±.05; Best double couple: NP1:ϕ_s31.00000°,δ70.00000° ,λ-25.00000°. NP2:ϕ_s130.00000°,δ66.00000°,λ-158.00000°. Principal axes: T 1.2580,Plg2.0000°,Azm81.0000°; N -0.1280,Plg58.0000°,Azm175.0000° ; P -1.1330,Plg32.0000°,Azm350.0000° $M_0$1.19500×10^{17}

(377) Spain

ISC IV 29 23 24 57.2–1.0 39.63N–.02 1.21W–.02 11–9 371 1-9
ISCJB IV 29 23 24 55.9–.28 39.68N–.01 1.35W–.02 2–2 **¶16485200**
CSEM IV 29 23 24 57.4–.08 39.63N 1.24W 2 3.5L
MDD IV 29 23 24 59.8–.26 39.59N 1.20W 11–0 3.1
SFS IV 29 23 24 59.0 39.58N 1.20W 10 2.9L
LDG IV 29 23 24 59.7–.07 39.57N 1.16W 10 3.3L
INMG IV 29 23 24 59.6–1.8 39.60N 1.22W 0 3.0L
IGIL IV 29 23 24 59.8 39.59N 1.20W 10 3.0L
STR IV 29 23 25 15.3–.39 39.89N 1.14W 10 3.3L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=39.6.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.3km az=128.0.
MDD Event type fe. Error ellipse: s-maj=3.2km s-min=1.8km az=121.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
SFS Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=126.0.
INMG Event type ke. Error ellipse: s-maj=2.8km s-min=1.4km az=109.0.
STR Event type ke.

(228) Near east coast of eastern Honshu

JMA IV 30 01 05 10.5–.10 35.74N 140.94E 11–1 3.5
NIED IV 30 01 05 00 35.80N 141.00E 11 3.6W **¶600603071**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ37.00000°,λ-115.00000°. NP2:ϕ_s194.00000°,δ57.00000°,λ-72.00000°. $M_0$2.99000×10^{14}

(228) Near east coast of eastern Honshu

JMA IV 30 01 34 09.6–.10 38.29N 141.78E 57–1 3.7
NIED IV 30 01 34 00 38.30N 141.80E 47 4.2W **¶600603086**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ22.00000°,λ95.00000°. NP2:ϕ_s171.00000°,δ68.00000°,λ88.00000°. $M_0$2.53000×10^{15}

(228) Near east coast of eastern Honshu

ISC IV 30 01 54 26.8–.59 39.66N–.03 142.19E–.05 51–4 4.4b,3.5s 191 0-145
NIED IV 30 01 54 00 39.70N 142.20E 50 4.3W,3.5s **¶16485202**
ISCJB IV 30 01 54 25.7–.39 39.68N–.03 142.16E–.05 56–2 4.4b,3.5s
MOS IV 30 01 54 26.5–.85 39.78N 142.10E 60 4.7b,3.5s
JMA IV 30 01 54 26.7–.10 39.67N 142.14E 47–1 4.2,3.5s
IDC IV 30 01 54 28.9–1.7 39.65N 142.06E 70–15 4.2,4.0
NEIC IV 30 01 54 28.7–.54 39.65N 142.13E 69–4 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ15.00000°,λ54.00000°. NP2:ϕ_s16.00000°,δ78.00000°,λ99.00000°. $M_0$3.68000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=22.3.
MOS Error ellipse: s-maj=8.5km s-min=5.8km az=107.7.
JMA Event type fe.
IDC Error ellipse: s-maj=14.3km s-min=11.1km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=113.0. Recorded [2 JMA] in Iwate.

(228) Near east coast of eastern Honshu

ISC IV 30 05 06 33.8–.41 36.83N–.03 141.18E–.03 28–2 5.2b,4.8s 1090 0-152
NIED IV 30 05 06 00 36.80N 141.30E 8 5.0W,4.8s **¶602558044**
IDC IV 30 05 06 29.2–.42 36.75N 141.19E 0 5.1,5.0
JMA IV 30 05 06 31.1–.10 36.76N 141.28E 37–2 5.3,5.0
ISCJB IV 30 05 06 33.5–.44 36.81N–.02 141.08E–.02 31–2 5.1b,4.8s
BJI IV 30 05 06 33.8 36.93N 141.12E 40 5.0s,4.8b
MOS IV 30 05 06 34.9–.81 37.12N 141.03E 33 5.4b,4.8s
GCMT IV 30 05 06 35.9–.20 36.86N 141.27E 20–0 5.1W,4.8s
NEIC IV 30 05 06 35.9–.44 36.79N 141.07E 39–4 5.2b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ66.00000°,λ-156.00000°. NP2:ϕ_s52.00000°,δ68.00000°,λ-26.00000°. $M_0$4.01000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=9.5km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=160.4.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=102.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c58; s94,c143; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.43±.23 $M_{\theta\theta}$-2.64±.14; $M_{\phi\phi}$6.07±.17; $M_{r\theta}$-1.31±.30; $M_{\theta\phi}$2.30±.11; $M_{\phi r}$0.15±.25; Best double couple: NP1:ϕ_s48.00000°,δ59.00000° ,λ-38.00000°. NP2:ϕ_s160.00000°,δ58.00000°,λ-143.00000°. Principal axes: T 6.6430,Plg1.0000°,Azm104.0000°; N -2.0100,Plg43.0000°,Azm195.0000° ; P -4.6330,Plg47.0000°,Azm13.0000° $M_0$5.63800×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=142.0. Recorded [4 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC IV 30 05 29 49.1–1.5 36.75N–.04 141.28E–.06 10–9 3.7b 35 1-69
NIED IV 30 05 29 00 36.80N 141.30E 5 3.8W **¶16485206**
ISCJB IV 30 05 29 47.5–1.1 36.70N–.03 141.37E–.06 15–7 3.7b,2.9s
IDC IV 30 05 29 47.6–.83 36.63N 141.25E 0 3.9L,3.8
JMA IV 30 05 29 49.6–.10 36.75N 141.25E 35–1 4.1,3.8
NEIC IV 30 05 29 52.9–.93 36.63N 141.18E 39–11 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ84.00000°,λ3.00000°. NP2: ϕ_s321.00000°,δ87.00000°,λ174.00000°. $M_0$6.55000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=19.9.
IDC Error ellipse: s-maj=21.8km s-min=15.4km az=98.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=14.5km s-min=9.6km az=101.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC IV 30 05 46 57.0–1.3 37.34N–.03 141.26E–.04 9–8 4.7b,3.9s 269 0-152

NIED IV 30 05 46 00 37.30N 141.30E 23 4.4W,3.9s ¶16485469
IDC IV 30 05 46 55.1–.48 37.33N 141.21E 0 4.8L,4.6
BJI IV 30 05 46 58.0 37.40N 141.20E 15 4.8b,4.6b
JMA IV 30 05 46 59.3–.10 37.34N 141.30E 33–1 4.5,4.6b
ISCJB IV 30 05 46 59.4–.16 37.35N–.02 141.26E–.03 33 4.7b,3.9s
NEIC IV 30 05 47 01.9–.51 37.39N 141.20E 40–4 4.7b,3.9s
MOS IV 30 05 47 01.0–.93 37.73N 141.14E 33 4.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ18.00000°,λ-51.00000°. NP2:ϕ_s229.00000°,δ76.00000°,λ-102.00000°. $M_0$3.93000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=11.2km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=143.6.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=134.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=7.9km s-min=5.6km az=88.0.

(228) Near east coast of eastern Honshu

ISC IV 30 06 04 23.2–.53 36.80N–.03 141.11E–.04 25–3 5.0s,4.8b 326 0-150
IDC IV 30 06 04 19.1–.44 36.77N 141.17E 0 4.9s,4.9 ¶16485209
JMA IV 30 06 04 21.6–.10 36.77N 141.25E 37–1 4.6,4.9
BJI IV 30 06 04 21.0 36.80N 141.00E 15 5.0b,4.8s
MOS IV 30 06 04 22.2–1.1 36.79N 141.12E 29 4.9b,4.8s
ISCJB IV 30 06 04 23.6–.44 36.78N–.02 141.07E–.03 37–3 4.9s,4.7b
NEIC IV 30 06 04 26.0–.50 36.75N 141.06E 44–4 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=10.7km az=107.0.
JMA Event type fe.
MOS Error ellipse: s-maj=7.6km s-min=5.5km az=105.2.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=31.4.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=131.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC IV 30 06 33 24.0–2.0 37.28N–.05 141.62E–.08 25–14 3.4b 22 1-64
ISCJB IV 30 06 33 22.8–1.5 37.25N–.04 141.67E–.09 27–8 3.4b ¶17202443
JMA IV 30 06 33 26.2–.10 37.29N 141.42E 46–1 3.4
IDC IV 30 06 33 28.1–4.9 37.22N 141.43E 63–47 3.2,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=6.7km az=10.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=44.7km s-min=27.6km az=107.0.

(228) Near east coast of eastern Honshu

ISC IV 30 08 18 21.2–1.5 36.31N–.04 141.05E–.05 14–9 4.0b 39 0-147
NIED IV 30 08 18 00 36.30N 141.10E 35 4.1W ¶16505587
JMA IV 30 08 18 24.1–.10 36.31N 141.07E 48–1 3.9
IDC IV 30 08 18 26.5–2.1 36.23N 141.00E 56–21 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ17.00000°,λ116.00000°. NP2:ϕ_s26.00000°,δ75.00000°,λ82.00000°. $M_0$1.51000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=11.7km az=86.0.

(83) South of Panama

ISC IV 30 08 19 16.7–.27 6.85N–.04 82.36W–.04 10 5.8s,5.7b 1284 2-175
IDC IV 30 08 19 14.3–.50 6.86N 82.52W 0 5.5,5.5s ¶16587542
MOS IV 30 08 19 15.3–1.2 6.95N 82.35W 10 5.9b,5.7s
GCMT IV 30 08 19 16.3–.10 6.88N 82.39W 21–0 6.2W,5.7s
NEIC IV 30 08 19 16.0–.00 6.83N 82.08W 15 6.2W,5.7s
BJI IV 30 08 19 16.2 6.85N 82.30W 10 6.2s,6.0
NEIC IV 30 08 19 16.7–.23 6.85N 82.33W 12 6.1,6.1W
ISCJB IV 30 08 19 17.0–.23 7.18N–.03 82.35W–.02 10 5.7s,5.6b
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c276; s139,c517;Duration: 3s_0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.13±.01 $M_{\theta\theta}$0.47±.01; $M_{\phi\phi}$-0.34±.01; $M_{r\theta}$0.28±.03; $M_{\theta\phi}$2.31±.01; $M_{\phi r}$-0.02±.03; Best double couple: NP1:ϕ_s275.00000°,δ90.00000°,λ-7.00000°. NP2:ϕ_s5.00000°,δ83.00000°,λ-180.00000°. Principal axes: T 2.4270,Plg5.0000°,Azm320.0000°; N -0.1260,Plg83.0000°,Azm91.0000°; P -2.2990,Plg5.0000°,Azm230.0000° $M_0$2.36300×10^{18}
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.20 $M_{\theta\theta}$0.21 $M_{\phi\phi}$-0.01 $M_{r\theta}$-0.87 $M_{\theta\phi}$1.61 $M_{\phi r}$0.26 Best double couple: NP1:ϕ_s90.00000°,δ82.00000°,λ-28.00000°. NP2:ϕ_s184.00000°,δ62.00000°,λ-171.00000°. Principal axes: T 1.8300,Plg13.0000°,Azm140.0000°; N 0.0700,Plg60.0000°,Azm255.0000°; P -1.8900,Plg25.0000°,Azm43.0000° $M_0$1.90000×10^{18}
NEIC Event type fe. Felt [II] at Boquete and David. Also felt at Ancon, Atalaya, Bejuco, Bugaba, Cerro Punta, Los Algarrobos, Nueva Gorgona, Nuevo Arraijan, Panama, Penonome, Puerto Armuelles, Rio Hato, San Miguelito and Volcan. Felt [IV] at Talamanca, Costa Rica. Also felt at Escazu, Golfito, Heredia, San Isidro and San Vito. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s68 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$-0.03 $M_{\phi\phi}$-0.01 $M_{r\theta}$0.04 $M_{\theta\phi}$1.42 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s360.00000°,δ88.00000°,λ180.00000°. NP2:ϕ_s90.00000°,δ90.00000°,λ2.00000°. Principal axes: T 1.4100,Plg1.0000°,Azm315.0000°; N 0.0300,Plg88.0000°,Azm91.0000°; P -1.4400,Plg1.0000°,Azm225.0000° $M_0$1.40000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s95.00000°,δ90.00000°,λ5.00000°. NP2:ϕ_s5.00000°,δ85.00000°,λ-180.00000°. Principal axes: T Plg4.0000°,Azm320.0000°; N Plg0.0000°,Azm0.0000°; P Plg4.0000°,Azm230.0000°
ISCJB Event type fe.

(244) Taiwan

ISC IV 30 08 35 38.8–.31 24.67N–.02 121.86E–.02 75–2 4.7b 522 0-167
NIED IV 30 08 35 00 24.70N 121.90E 98 5.1W ¶16485217
BKK IV 30 08 35 32.9–.60 25N–5.0 122E–7.0 10 6.0,5.1b
ISCJB IV 30 08 35 37.7–.11 24.67N–.01 121.85E–.01 81–1 4.6b,5.1b
TAP IV 30 08 35 38.4 24.65N 121.81E 75–0 5.8L,5.1b
MOS IV 30 08 35 38.3–1.1 24.61N 121.85E 91 5.4s,4.8b
NEIC IV 30 08 35 38.8–.32 24.62N 121.85E 79–3 5.1W,4.9b
JMA IV 30 08 35 38.0–.20 24.61N 121.80E 72–3 4.8,4.9b
IDC IV 30 08 35 38.3–.50 24.61N 121.85E 78–3 4.8s,4.8
BJI IV 30 08 35 39.1 24.80N 121.65E 70 4.9b,4.8b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ82.00000°,λ176.00000°. NP2:ϕ_s147.00000°,δ86.00000°,λ8.00000°. $M_0$4.65000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=144.8.
TAP B.
MOS Error ellipse: s-maj=9.2km s-min=5.5km az=112.1.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.5km az=104.0. Felt [IV] at Taipei. Felt in much of Taiwan. Recorded [4 TAP] in Yilan; [3 TAP] in Hualien, Miaoli, Nantou and Taoyuan; [2 TAP] in Changhua, Chiayi, Hsinchu, Taitung and Yunlin; [1 TAP] in Penghu. Recorded [1 JMA] on Iriomote-jima and Yonaguni-jima, Ryukyu Islands. Moment Tensor Solution. s19 Moment tensor: Scale 10^{16}Nm; M_{rr}1.32 $M_{\theta\theta}$3.47 $M_{\phi\phi}$-4.80 $M_{r\theta}$-1.99 $M_{\theta\phi}$-2.27 $M_{\phi r}$-0.17 Best double couple: NP1:ϕ_s332.00000°,δ67.00000°,λ16.00000°. NP2:ϕ_s236.00000°,δ75.00000°,λ156.00000°. Principal axes: T 5.0200,Plg27.0000°,Azm192.0000°; N 0.4200,Plg62.0000°,Azm27.0000°; P -5.4500,Plg6.0000°,Azm286.0000° $M_0$5.30000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=10.0km az=41.0.

(228) Near east coast of eastern Honshu

ISC IV 30 10 21 43.5–1.6 36.79N–.04 141.28E–.06 13–9 3.7b 43 0-147
IDC IV 30 10 21 41.6–.68 36.77N 141.30E 0 3.9s,3.9 ¶16587548
ISCJB IV 30 10 21 42.9–.95 36.78N–.03 141.36E–.05 21–6 3.9s,3.7b
JMA IV 30 10 21 44.0–.10 36.77N 141.25E 37–1 3.6,3.7b
NEIC IV 30 10 21 44.7–3.4 36.82N 141.25E 20–21 4.8b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=15.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.6km az=28.8.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.8km az=119.0.

(228) Near east coast of eastern Honshu

ISC IV 30 10 46 19.1–1.7 38.20N–.04 142.16E–.06 9–11 3.6b 26 1-146
NIED IV 30 10 46 00 38.30N 142.20E 47 3.9W ¶17202450
IDC IV 30 10 46 19.3–.77 38.30N 142.38E 0 3.8,3.6
JMA IV 30 10 46 23.5–.20 38.31N 142.12E 37–2 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ56.00000°,λ143.00000°. NP2:ϕ_s155.00000°,δ60.00000°,λ40.00000°. $M_0$7.39000×10^{14}
IDC Error ellipse: s-maj=23.4km s-min=16.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(186) Vanuatu Islands

ISC IV 30 12 20 58.0–.57 17.98S–.07 168.06E–.09 32 4.6b,3.5s 42 4-124
ISCJB IV 30 12 20 56.3–.44 17.87S–.06 168.04E–.06 32 4.5b,3.5s ¶16485922
IDC IV 30 12 20 59.2–3.6 18.09S 168.18E 42–30 4.7L,4.5
NEIC IV 30 12 21 01.5–1.3 17.96S 168.07E 65–13 4.6b,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=7.7km az=135.8.
IDC Error ellipse: s-maj=24.6km s-min=18.8km az=73.0.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=9.1km az=213.0. Felt at Port-Vila.

(227) Eastern Honshu

ISC IV 30 12 57 47.4–1.3 36.97N–.04 140.56E–.03 1–9 3.6b 29 0-147
NIED IV 30 12 57 00 37.00N 140.60E 8 3.6W ¶17202459
IDC IV 30 12 57 47.0–.86 36.95N 140.65E 0 3.8,3.7
ISCJB IV 30 12 57 48.0–.51 37.00N–.03 140.69E–.04 17–4 3.5b,2.8s
JMA IV 30 12 57 48.6 37.03N 140.59E 9–1 3.6,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ46.00000°,λ-130.00000°. NP2:ϕ_s171.00000°,δ57.00000°,λ-56.00000°. $M_0$2.84000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=18.0km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.3km az=25.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s154.00000°,δ50.00000°,λ-58.00000°. NP2:ϕ_s290.00000°,δ50.00000°,λ-122.00000°. Principal axes: T Plg0.0000°,Azm222.0000°; N Plg24.0000°,Azm312.0000°; P Plg66.0000°,Azm132.0000°

(162) South Island

WEL IV 30 13 19 18.6–.09 43.60S 172.67E 10–0 3.6L ¶16485923
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC IV 30 13 22 05.5–1.3 36.13N–.04 141.11E–.07 31 15 0-60
IDC IV 30 13 21 59.6–4.5 36.69N 141.51E 0 3.7,3.5 ¶17202460
NIED IV 30 13 22 00 36.20N 141.00E 20 3.5W,3.5
ISCJB IV 30 13 22 07.0–.94 36.25N–.05 141.09E–.09 31 3.5b,3.5
JMA IV 30 13 22 07.9–.10 36.22N 140.99E 39–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=81.6km s-min=32.4km az=23.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ51.00000°,λ-42.00000°. NP2:ϕ_s222.00000°,δ59.00000°,λ-133.00000°. $M_0$2.24000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.4km az=165.4.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC IV 30 17 11 59.2–.57 36.34N–.04 140.92E–.03 24–3 4.8b,4.2s 393 0-149
NIED IV 30 17 11 00 36.40N 141.00E 5 4.7W,4.2s ¶16485483
IDC IV 30 17 11 55.5–.48 36.35N 140.88E 0 4.4,4.4
ISCJB IV 30 17 11 57.5–.59 36.37N–.03 140.88E–.03 20–3 4.8b,4.2s
JMA IV 30 17 11 57.0–.10 36.39N 141.01E 21–1 4.9,4.2s
NEIC IV 30 17 11 59.8–1.4 36.32N 140.80E 27–9 4.9b,4.2s
MOS IV 30 17 12 01.4–1.4 36.69N 140.75E 36 5.1b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ35.00000°,λ-156.00000°. NP2:ϕ_s203.00000°,δ76.00000°,λ-58.00000°. $M_0$1.36000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.6km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=154.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=141.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=109.0.

(228) Near east coast of eastern Honshu

ISC IV 30 18 07 07.8–1.7 38.80N–.07 142.1E–.10 44–13 3.6b 21 0-67
ISCJB IV 30 18 07 06.7–1.2 38.85N–.05 142.1E–.10 49–8 3.5b ¶17202470
JMA IV 30 18 07 07.8–.10 38.84N 142.06E 46–1 3.7
IDC IV 30 18 07 09.6–2.8 38.90N 142.28E 68–22 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=7.4km az=19.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.9km s-min=17.0km az=104.0.

(73) El Salvador

ISC IV 30 21 46 54.6–.84 13.18N–.06 89.74W–.05 64–6 4.5b 394 1-147
ISCJB IV 30 21 46 53.4–.41 13.12N–.03 89.69W–.03 65–3 4.4b ¶16485940
CASC IV 30 21 46 53.3–1.5 13.13N 89.75W 30–6 4.5b,4.3L
NEIC IV 30 21 46 55.6–.65 13.19N 89.66W 69–6 4.7W,4.5b
IDC IV 30 21 47 00.1–2.2 13.49N 89.28W 105–19 4.3,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.1km az=36.9.
CASC Error ellipse: s-maj=5.5km s-min=5.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.6km az=215.0. Felt [III] at San Salvador. Also felt at Santo Tomas. Felt at Guatemala, Guatemala. Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ69.00000°,λ-72.00000°. NP2:ϕ_s112.00000°,δ28.00000°,λ-128.00000°. Principal axes: T 1.3000,Plg22.0000°,Azm51.0000°; N -0.2300,Plg17.0000°,Azm147.0000°; P -1.0700,Plg62.0000°,Azm272.0000°
IDC Error ellipse: s-maj=20.7km s-min=10.1km az=52.0.

(228) Near east coast of eastern Honshu

ISC IV 30 22 04 43.6–1.4 35.63N–.06 141.18E–.09 29–8 3.7b,3.0s 25 0-75
ISCJB IV 30 22 04 42.8–1.0 35.65N–.05 141.2E–.10 36–8 3.7b,3.4s ¶17202479
JMA IV 30 22 04 45.0–.10 35.73N 140.96E 35–1 3.3,3.4s
IDC IV 30 22 04 46.1–2.2 35.61N 141.04E 47–20 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=7.7km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.9km s-min=8.6km az=71.0.

(228) Near east coast of eastern Honshu

ISC IV 30 22 47 58.8–1.1 36.93N–.03 140.73E–.07 12–8 3.6b 19 0-57
ISCJB IV 30 22 47 58.1–.90 36.92N–.04 140.85E–.08 17–6 3.5b,3.4s ¶17202483
JMA IV 30 22 47 59.2 36.94N 140.70E 6–1 3.3,3.4s
IDC IV 30 22 48 03.9–6.8 36.88N 140.71E 50–57 3.4,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.2km az=18.5.
JMA Event type fe.
IDC Error ellipse: s-maj=52.7km s-min=26.0km az=72.0.

(228) Near east coast of eastern Honshu

ISC IV 30 23 03 58.8–1.4 39.49N–.04 142.40E–.08 19–3 3.3b 25 0-60
NIED IV 30 23 03 00 39.50N 142.40E 20 3.6W ¶17202484
ISCJB IV 30 23 03 57.4–1.5 39.48N–.03 142.48E–.10 16–10 3.2b
JMA IV 30 23 03 59.4–.10 39.51N 142.37E 30–1 3.8
IDC IV 30 23 04 01.5–2.9 39.45N 142.66E 53–23 3.3,3.2L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ12.00000°,λ14.00000°. NP2:ϕ_s69.00000°,δ87.00000°,λ101.00000°. $M_0$2.59000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.3km az=12.1.
JMA Event type fe.
IDC Error ellipse: s-maj=35.1km s-min=11.8km az=110.0.

(228) Near east coast of eastern Honshu

ISC IV 30 23 08 13.3–1.5 36.40N–.04 140.98E–.05 13–9 4.0b,3.1s 59 0-147
NIED IV 30 23 08 00 36.40N 141.00E 8 4.0W,3.1s ¶16505589
NEIC IV 30 23 08 08.5–.84 34.33N 140.42E 35–8 4.2b,3.1s
ISCJB IV 30 23 08 13.8–.84 36.40N–.04 140.95E–.06 29–5 4.1b,3.3s
JMA IV 30 23 08 13.3–.10 36.40N 141.01E 20–1 4.2,3.3s
IDC IV 30 23 08 18.8–1.9 36.33N 140.83E 54–17 3.9,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ58.00000°,λ175.00000°. NP2:ϕ_s39.00000°,δ86.00000°,λ32.00000°. $M_0$9.77000×10^{14}
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=7.3km az=65.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.7km az=26.5.
JMA Event type fe.
IDC Error ellipse: s-maj=14.8km s-min=9.0km az=66.0.

(228) Near east coast of eastern Honshu

ISC IV 30 23 24 21.6–1.9 36.36N–.05 140.99E–.06 4–11 3.9b 42 0-147

NIED IV 30 23 24 00 36.40N 141.00E 5 4.0W ¶600603655
ISCJB IV 30 23 24 20.2–1.1 36.32N–.04 141.11E–.05 6–6 3.8b,3.0s
JMA IV 30 23 24 23.0 36.40N 141.00E 20–1 4.3,3.0s
IDC IV 30 23 24 27.4–1.8 36.38N 140.74E 41–17 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ46.00000°,λ-173.00000°. NP2:ϕ_s215.00000°,δ85.00000°,λ-44.00000°. $M_0$1.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.9km az=15.6.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=10.8km az=85.0.

(227) Eastern Honshu

ISC V 01 00 02 32.6–.88 37.11N–.04 140.85E–.06 7–4 3.8b 47 0-147
NIED V 01 00 02 00 37.10N 140.80E 5 3.7W ¶16486817
ISCJB V 01 00 02 31.3–.76 37.08N–.03 140.97E–.05 11–3 3.8b
IDC V 01 00 02 31.5–.71 37.15N 140.81E 0 3.9,3.8
JMA V 01 00 02 32.9 37.10N 140.85E 9–1 3.7,3.8
NEIC V 01 00 02 36.8–3.3 37.17N 140.89E 35–22 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ47.00000°,λ-115.00000°. NP2:ϕ_s72.00000°,δ49.00000°,λ-66.00000°. $M_0$4.69000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=24.3.
IDC Error ellipse: s-maj=18.5km s-min=14.1km az=142.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s62.00000°,δ50.00000°,λ-79.00000°. NP2:ϕ_s225.00000°,δ42.00000°,λ-102.00000°. Principal axes: T Plg4.0000°,Azm144.0000°; N Plg8.0000°,Azm235.0000°; P Plg81.0000° ,Azm28.0000°
NEIC Event type fe. Error ellipse: s-maj=16.7km s-min=10.2km az=135.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC V 01 01 27 44.6–.66 35.90N–.03 140.96E–.04 32–4 4.6b,3.8s 320 0-152
NIED V 01 01 27 00 36.00N 140.90E 44 4.7W,3.8s ¶16485947
MOS V 01 01 27 43.5–1.1 35.89N 140.92E 34 4.9b,3.8s
NEIC V 01 01 27 44.3–1.4 35.80N 140.77E 28–9 4.7b,3.8s
ISCJB V 01 01 27 45.2–.38 35.80N–.03 140.83E–.03 49–3 4.6b,3.8s
JMA V 01 01 27 45.8–.10 35.90N 140.85E 39–1 4.5,3.8s
IDC V 01 01 27 47.9–1.4 35.80N 140.78E 57–13 4.4,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ16.00000°,λ119.00000°. NP2:ϕ_s15.00000°,δ76.00000°,λ82.00000°. $M_0$1.08000×10^{16}
MOS Error ellipse: s-maj=8.3km s-min=4.5km az=109.4.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=115.0. Felt [II] at Yokosuka. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.4km az=179.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s29.00000°,δ67.00000°,λ80.00000°. NP2: ϕ_s232.00000°,δ25.00000°,λ111.00000°. Principal axes: T Plg67.0000°,Azm281.0000° ; N Plg9.0000°,Azm33.0000°; P Plg21.0000°,Azm126.0000°
IDC Error ellipse: s-maj=12.5km s-min=7.3km az=72.0.

(230) Near south coast of eastern Honshu

ISC V 01 01 45 17.3–.73 35.88N–.04 139.79E–.06 82–6 4.0b 60 0-148
NIED V 01 01 45 00 35.90N 139.80E 80 4.2W ¶16486820
ISCJB V 01 01 45 16.4–.37 35.86N–.03 139.79E–.06 89–3 3.9b
JMA V 01 01 45 17.6–.10 35.92N 139.83E 77–2 4.2
IDC V 01 01 45 18.3–.84 35.77N 139.70E 94–7 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ29.00000°,λ81.00000°. NP2:ϕ_s7.00000°,δ61.00000°,λ95.00000°. $M_0$2.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s9.00000°,δ64.00000°,λ92.00000°. NP2: ϕ_s184.00000°,δ26.00000°,λ86.00000°. Principal axes: T Plg71.0000°,Azm283.0000° ; N Plg2.0000°,Azm188.0000°; P Plg19.0000°,Azm97.0000°
IDC Error ellipse: s-maj=14.6km s-min=6.3km az=67.0.

(228) Near east coast of eastern Honshu

ISC V 01 01 56 01.6–1.4 37.06N–.04 141.53E–.06 26–10 4.0b 56 1-152
NIED V 01 01 56 00 37.20N 141.50E 50 4.0W ¶16486821
ISCJB V 01 01 56 01.8–.66 37.09N–.03 141.51E–.06 41–6 4.0b
NEIC V 01 01 56 03.5–.69 37.10N 141.52E 37–7 4.3b
IDC V 01 01 56 03.3–3.0 37.15N 141.42E 33–23 3.9,3.9
JMA V 01 01 56 03.5–.10 37.15N 141.37E 49–1 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ62.00000°,λ28.00000°. NP2:ϕ_s91.00000°,δ65.00000°,λ149.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.0km az=11.3.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=6.6km az=125.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.9km s-min=15.5km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(358) Romania

ISC V 01 02 24 16.5–.24 45.62N–.02 26.42E–.02 140–2 4.6b 1481 0-144
PRU V 01 02 24 05.4 45.49N 27.95E 109 4.7 ¶16485948
BEO V 01 02 24 12.6–2.1 45.56N 26.52E 0 4.8
PDG V 01 02 24 14.7–.70 45.59N 26.40E 150–2 4.4L
MOS V 01 02 24 14.6–.92 45.58N 26.44E 135 4.7b
SOF V 01 02 24 14.9 45.53N 26.35E 141 4.4
SIGU V 01 02 24 14.3 45.60N 26.53E 157 4.5b
CSEM V 01 02 24 15.9–.05 45.58N 26.41E 141 4.6b,3.2s
BUC V 01 02 24 15.8–.57 45.58N 26.44E 146–6 5.3,3.2s
ISCJB V 01 02 24 15.1–.08 45.577N–.01 26.41E–.01 141–1 4.4b,3.2s
NEIC V 01 02 24 16.1 45.58N 26.46E 138 4.6b,3.2s
IDC V 01 02 24 16.3–.29 45.61N 26.26E 139–2 4.5,4.1
ISK V 01 02 24 27.4 44.44N 27.07E 5 4.5L,4.1
ISC Event type fe.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.6km az=0.0.
MOS Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=105.1. Felt (IV) at Kishinev. Moment Tensor Solution.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=40.0.
BUC Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=355.0.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.3km az=43.9.
NEIC Event type fe. Felt [II] at Bucharest. Also felt at Barcani, Tecuci, Vaslui and Voluntari. Felt at Ruse and Silistra, Bulgaria and at Cahul and Ialoveni, Moldova. After BUC.
IDC Error ellipse: s-maj=8.4km s-min=6.3km az=163.0.

(330) Lake Issyk-Kul region

ISC V 01 02 31 29.1–.19 43.62N–.02 77.66E–.01 20–0 5.2b,4.8s 919 0-151
BJI V 01 02 31 26.8 43.71N 77.74E 8 5.3L,5.2b ¶16485949
NNC V 01 02 31 27.5–.52 43.72N 77.66E 2–3 5.8b,5.3
KRNET V 01 02 31 28.1–.10 43.64N 77.66E 24 5.4b,5.3
SOME V 01 02 31 28.9 43.58N 77.70E 20 4.3s,5.3
MOS V 01 02 31 28.3–1.1 43.64N 77.76E 22 5.3b,4.8s
IDC V 01 02 31 29.3–.33 43.55N 77.69E 23–1 4.7,4.6
NEIC V 01 02 31 29.6–.11 43.56N 77.75E 23 5.3b,4.8s
ISCJB V 01 02 31 29.3–.25 43.61N–.01 77.75E–.01 30–1 5.1b,4.7s
GCMT V 01 02 31 29.6–.20 43.72N 77.73E 25–1 5.2W,4.7s
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=5.2km s-min=2.2km az=170.0.
MOS Event type fe. Error ellipse: s-maj=4.9km s-min=4.6km az=127.5. Felt (IV) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=7.5km s-min=5.3km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=172.0. Felt [IV] at Almaty.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.8km az=171.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c65; s91,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.93±.12 $M_{\theta\theta}$-3.58±.10; $M_{\phi\phi}$1.66±.09; $M_{r\theta}$-5.28±.38; $M_{\theta\phi}$0.33±.07; $M_{\phi r}$-2.17±.25; Best double couple: NP1:ϕ_s248.00000°,δ79.00000° ,λ72.00000°. NP2:ϕ_s129.00000°,δ21.00000°,λ149.00000°. Principal axes: T 6.0710,Plg52.0000°,Azm137.0000°; N 0.8070,Plg18.0000°,Azm251.0000° ; P -6.8680,Plg32.0000°,Azm353.0000° $M_0$6.47000×10^{16}

(228) Near east coast of eastern Honshu

ISC V 01 02 48 45.4–.43 37.40N–.03 141.30E–.04 24–2 4.5b,4.0s 298 0-152
NIED V 01 02 48 00 37.40N 141.20E 29 4.4W,4.0s ¶16485950
ISCJB V 01 02 48 44.8–.53 37.38N–.02 141.25E–.03 30–3 4.5b,4.2s
IDC V 01 02 48 45.5–.43 37.37N 141.11E 26–2 4.6L,4.4
JMA V 01 02 48 45.7–.10 37.42N 141.21E 29–1 4.6,4.4
MOS V 01 02 48 45.2–1.3 37.44N 141.32E 33 4.7b,4.4
NEIC V 01 02 48 47.4–.52 37.45N 141.12E 37–4 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ54.00000°,λ-146.00000°. NP2:ϕ_s166.00000°,δ63.00000°,λ-41.00000°. $M_0$4.83000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=21.0.
IDC Error ellipse: s-maj=14.0km s-min=10.0km az=92.0.
JMA Event type fe.
MOS Error ellipse: s-maj=7.8km s-min=4.8km az=96.4.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=127.0. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC V 01 03 26 41.2–1.1 37.08N–.04 141.28E–.08 50–8 3.9b,3.4s 55 0-147
NIED V 01 03 26 00 37.10N 141.20E 53 4.1W,3.4s ¶16577933
ISCJB V 01 03 26 39.9–.62 37.07N–.03 141.30E–.07 53–4 3.9b,3.4s
JMA V 01 03 26 41.5–.10 37.11N 141.15E 56–1 4.2,3.4s
IDC V 01 03 26 42.1–1.9 37.07N 141.10E 59–18 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ31.00000°,λ117.00000°. NP2:ϕ_s220.00000°,δ63.00000°,λ75.00000°. $M_0$1.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.0km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=10.8km az=89.0.

(229) Off east coast of Honshu

ISC V 01 03 28 15.6–2.2 37.79N–.05 142.09E–.08 10–13 3.5b 25 1-89
NIED V 01 03 28 00 37.90N 142.10E 23 3.6W ¶17202494
IDC V 01 03 28 14.0–.89 37.69N 142.29E 0 3.8,3.6
ISCJB V 01 03 28 15.2–1.6 37.78N–.04 142.19E–.08 17–10 3.5b,3.6
JMA V 01 03 28 18.1–.20 37.83N 142.04E 30–3 4.1,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ13.00000°,λ-106.00000°. NP2:ϕ_s219.00000°,δ78.00000°,λ-86.00000°. $M_0$3.33000×10^{14}
IDC Error ellipse: s-maj=28.8km s-min=22.4km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC V 01 03 37 18.4–1.1 37.05N–.03 140.64E–.04 5–7 3.6b 28 0-147
NIED V 01 03 37 00 37.10N 140.70E 5 3.7W ¶16486822
ISCJB V 01 03 37 17.8–.53 37.05N–.03 140.76E–.06 15–4 3.6b
IDC V 01 03 37 17.4–.75 36.98N 140.67E 0 3.8,3.7
JMA V 01 03 37 18.3 37.07N 140.67E 10–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ15.00000°,λ-107.00000°. NP2:ϕ_s184.00000°,δ75.00000°,λ-85.00000°. $M_0$4.68000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=20.8.
IDC Error ellipse: s-maj=17.6km s-min=13.6km az=145.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s199.00000°,δ80.00000°,λ-90.00000°. NP2:ϕ_s19.00000°,δ10.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm289.0000°; N Plg0.0000°,Azm19.0000°; P Plg55.0000° ,Azm109.0000°

(227) Eastern Honshu

ISC V 01 04 40 19.5–1.0 37.00N–.03 140.66E–.04 9–8 20 0-61
ISCJB V 01 04 40 18.7–.63 36.99N–.03 140.78E–.06 16–6 3.5b ¶17202499
IDC V 01 04 40 18.8–2.6 36.84N 140.73E 0 3.6,3.5
JMA V 01 04 40 19.4 37.01N 140.65E 8–1 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.2km az=4.4.
IDC Error ellipse: s-maj=40.8km s-min=28.0km az=40.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s222.00000°,δ79.00000°,λ-109.00000°. NP2:ϕ_s103.00000°,δ21.00000°,λ-30.00000°. Principal axes: T Plg32.0000°,Azm327.0000°; N Plg18.0000°,Azm225.0000°; P Plg52.0000° ,Azm110.0000°

(228) Near east coast of eastern Honshu

ISC V 01 05 06 05.5–1.7 37.50N–.04 141.43E–.06 4–10 3.7b 45 0-90
NIED V 01 05 06 00 37.50N 141.30E 17 3.9W ¶16486823
ISCJB V 01 05 06 04.3–1.0 37.49N–.03 141.49E–.05 7–5 3.9s,3.7b
IDC V 01 05 06 04.6–.80 37.47N 141.48E 0 3.9,3.9L
JMA V 01 05 06 07.5 37.53N 141.28E 19–1 4.2,3.9L
NEIC V 01 05 06 08.9–2.1 37.48N 141.42E 29–15 4.2b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ61.00000°,λ-5.00000°. NP2:ϕ_s325.00000°,δ86.00000°,λ-151.00000°. $M_0$8.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.0km az=17.9.
IDC Error ellipse: s-maj=21.3km s-min=15.0km az=126.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=6.4km az=120.0. Recorded [3 JMA] in Fukushima.

(134) Off coast of central Chile

ISC V 01 05 11 53.1–1.1 38.03S–.05 74.3W–.10 35 4.1b 24 2-151
IDC V 01 05 11 50.8–1.9 38.44S 73.68W 0 4.1,4.1L ¶16587551
GUC V 01 05 11 50.7–.32 38.05S 74.32W 18–2 4.2L,4.1L
NEIC V 01 05 11 50.0 38.05S 74.32W 18 4.2L,4.1L
ISCJB V 01 05 11 51.3–.90 38.03S–.04 74.34W–.09 33 4.2b,4.1L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Tirua and [II] at Lebu, Padre Las Casas, Puerto Saavedra, Renaico, Temuco and Valdivia. After GUC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC V 01 07 04 29.1–.41 35.93N–.03 141.07E–.04 24–2 4.5b,3.6s 216 0-147
NIED V 01 07 04 00 36.00N 141.10E 20 4.4W,3.6s ¶16485957
ISCJB V 01 07 04 27.8–.53 35.90N–.02 141.07E–.03 27–3 4.4b,3.7s
JMA V 01 07 04 28.3–.10 35.91N 141.06E 30–1 4.4,3.7s
MOS V 01 07 04 28.5–1.0 35.92N 141.13E 33 4.6b,3.7s
NEIC V 01 07 04 30.7–1.6 35.86N 141.02E 35–11 4.6b,3.7s
IDC V 01 07 04 30.1–3.6 35.89N 141.01E 31–25 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ43.00000°,λ-56.00000°. NP2:ϕ_s10.00000°,δ56.00000°,λ-117.00000°. $M_0$4.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.0km az=26.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=99.6.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=111.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=16.0km s-min=12.2km az=99.0.

(330) Lake Issyk-Kul region

ISC V 01 07 41 39.5–1.0 43.60N–.02 77.66E–.01 9–8 4.0b 105 0-33
KRNET V 01 07 41 38.6–.10 43.62N 77.66E 23 3.3b ¶16912256
NNC V 01 07 41 38.7–.67 43.61N 77.67E 3–4 3.5b,3.3
ISCJB V 01 07 41 39.3–.35 43.61N–.02 77.67E–.02 3–2 3.9b,3.3
SOME V 01 07 41 39.6 43.60N 77.65E 20 3.9b,3.3
MOS V 01 07 41 40.1–2.3 43.71N 77.68E 19 4.1b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.8km s-min=2.8km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=166.5.
MOS Event type fe. Error ellipse: s-maj=14.3km s-min=11.3km az=61.7. Felt (II) at Tyrgen. Moment Tensor Solution.

(330) Lake Issyk-Kul region

ISC V 01 09 13 55.0–.32 43.62N–.02 77.66E–.01 17–1 4.7b,4.0s 349 0-149
NNC V 01 09 13 53.0–.65 43.69N 77.67E 0–5 5.1b,4.8 ¶16485958
MOS V 01 09 13 53.5–1.5 43.74N 77.64E 16 4.7b,4.8
KRNET V 01 09 13 54.2–.10 43.62N 77.65E 22 4.6b,4.8
IDC V 01 09 13 55.3–.48 43.53N 77.66E 23–2 4.2,4.1
NEIC V 01 09 13 55.9–.49 43.60N 77.64E 22–3 4.9b,4.1
ISCJB V 01 09 13 55.2–.26 43.66N–.02 77.70E–.02 26–2 4.6b,3.9s
SOME V 01 09 13 55.4 43.62N 77.67E 25 3.5s,3.9s
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=6.6km s-min=2.2km az=172.0.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=106.6. Felt (III-IV) at Almaty. Moment Tensor Solution.

IDC Error ellipse: s-maj=9.2km s-min=6.6km az=144.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=169.0. Felt [III] at Almaty. Also felt at Energeticheskiy.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=163.2.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 09 32 11.6–.72**	**38.67N–.07**	**141.96E–.09**	**41**	**3.8b,3.4s**	**31**	**0-89**
NIED	V	01 09 32 00	38.60N	141.90E	50	4.2W,3.4s		**¶16577938**
ISCJB	V	01 09 32 09.7–.56	38.63N–.05	142.11E–.07	41	3.8b,3.4s		
JMA	V	01 09 32 12.2–.10	38.64N	141.89E	47–1	3.9,3.4s		
IDC	V	01 09 32 13.5–2.5	38.65N	141.83E	61–21	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ17.00000°,λ106.00000°. NP2:ϕ_s23.00000°,δ74.00000°,λ85.00000°. $M_0$1.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.6km az=135.7.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=16.5km az=136.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 09 36 33.2–.95**	**36.61N–.05**	**140.60E–.06**	**24–6**	**3.4b**	**19**	**0-60**
NIED	V	01 09 36 00	36.60N	140.60E	35	3.7W		**¶16486827**
IDC	V	01 09 36 29.4–1.1	36.46N	140.66E	0	3.6,3.5		
ISCJB	V	01 09 36 32.1–.82	36.58N–.05	140.70E–.07	28–4	3.4b,3.5		
JMA	V	01 09 36 33.7	36.63N	140.56E	22–1	3.9,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ12.00000°,λ-100.00000°. NP2:ϕ_s157.00000°,δ78.00000°,λ-88.00000°. $M_0$4.24000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=21.9km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.3km az=43.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s162.00000°,δ80.00000°,λ-91.00000°. NP2:ϕ_s350.00000°,δ10.00000°,λ-82.00000°. Principal axes: T Plg35.0000°,Azm253.0000°; N Plg1.0000°,Azm162.0000°; P Plg55.0000° ,Azm70.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**01 10 22 40.7–.48**	**35.90N–.04**	**140.76E–.04**	**32–3**	**4.7b,3.8s**	**340**	**0-151**
NIED	V	01 10 22 00	36.00N	140.90E	44	4.6W,3.8s		**¶16485959**
ISCJB	V	01 10 22 41.2–.35	35.84N–.03	140.73E–.03	52–3	4.7b,3.7s		
JMA	V	01 10 22 41.0–.10	35.90N	140.85E	42–1	4.4,3.7s		
NEIC	V	01 10 22 43.8–.53	35.84N	140.68E	60–4	4.8b,3.7s		
IDC	V	01 10 22 43.3–1.6	35.83N	140.75E	57–14	4.4,4.3		
MOS	V	01 10 22 44.3–.94	36.27N	140.65E	62	4.9b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ15.00000°,λ105.00000°. NP2:ϕ_s17.00000°,δ76.00000°,λ86.00000°. $M_0$9.98000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=145.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=130.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=13.7km s-min=9.1km az=92.0.
MOS Error ellipse: s-maj=7.5km s-min=4.7km az=104.2.

(228) Near east coast of eastern Honshu

JMA	**V**	**01 10 23 49.7–.20**	**37.18N**	**141.43E**	**44–2**	**3.8**	
							¶600603975

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 10 35 11.3–.91**	**39.04N–.04**	**142.33E–.06**	**31–6**	**3.8b**	**34**	**1-76**
NIED	V	01 10 35 00	39.00N	142.40E	29	3.7W		**¶17202512**
ISCJB	V	01 10 35 08.6–1.1	39.00N–.04	142.47E–.07	24–7	3.7b		
JMA	V	01 10 35 09.7–.10	39.04N	142.43E	31–2	3.7		
IDC	V	01 10 35 11.4–.79	38.95N	142.40E	32–6	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ32.00000°,λ-34.00000°. NP2:ϕ_s202.00000°,δ73.00000°,λ-118.00000°. $M_0$3.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.5km az=29.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=15.3km az=106.0.

(330) Lake Issyk-Kul region

ISC	**V**	**01 11 37 09.6–.35**	**43.66N–.02**	**77.64E–.01**	**13–2**	**4.5b,3.5s**	**260**	**0-150**
NNC	V	01 11 37 07.9–.54	43.67N	77.68E	0	4.8b,4.6		**¶16485961**
ISCJB	V	01 11 37 08.7–.50	43.72N–.02	77.66E–.02	12–3	4.3b,3.6s		
KRNET	V	01 11 37 08.9–.10	43.62N	77.66E	22	4.3b,3.6s		
MOS	V	01 11 37 09.4–1.5	43.82N	77.50E	21	4.4b,3.6s		
SOME	V	01 11 37 09.9	43.58N	77.67E	20	2.7s,3.6s		
IDC	V	01 11 37 09.6–.58	43.57N	77.66E	23–2	4.0,3.9L		
NEIC	V	01 11 37 11.6–.94	43.72N	77.54E	28–6	4.8b,3.9L		

ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=7.7km s-min=2.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=162.7.
MOS Event type fe. Error ellipse: s-maj=6.9km s-min=5.3km az=82.6. Felt (IV) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=10.2km s-min=7.8km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.4km az=150.0. Felt [III] at Almaty. Also felt at Esik.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 11 47 12.7–1.8**	**38.48N–.06**	**142.0E–.10**	**43–17**		**25**	**1-59**
NIED	V	01 11 47 00	38.50N	141.80E	17	3.8W		**¶17202518**
ISCJB	V	01 11 47 12.0–1.0	38.52N–.05	142.0E–.10	54–9	3.3b,2.9s		
IDC	V	01 11 47 13.0–3.2	38.51N	142.19E	54–31	3.5,3.4		
JMA	V	01 11 47 13.5	38.51N	141.85E	56–1	3.8,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ66.00000°,λ-174.00000°. NP2:ϕ_s128.00000°,δ84.00000°,λ-24.00000°. $M_0$5.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=6.3km az=19.6.
IDC Error ellipse: s-maj=42.0km s-min=19.0km az=104.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 12 55 12.4–1.0**	**39.67N–.04**	**142.08E–.10**	**49–7**	**3.9b**	**28**	**0-73**
NIED	V	01 12 55 00	39.70N	142.10E	44	3.8W		**¶600604045**
ISCJB	V	01 12 55 11.2–.76	39.68N–.04	142.1E–.10	56–5	3.8b,2.4s		
JMA	V	01 12 55 12.3	39.67N	142.13E	47–1	3.6,2.4s		
IDC	V	01 12 55 14.1–2.6	39.65N	142.01E	67–23	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ13.00000°,λ74.00000°. NP2:ϕ_s16.00000°,δ77.00000°,λ94.00000°. $M_0$6.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=6.5km az=7.0.
JMA Event type fe.
IDC Error ellipse: s-maj=24.0km s-min=17.2km az=95.0.

(162) South Island

WEL	**V**	**01 14 57 03.0–.06**	**43.58S**	**172.62E**	**11–0**	**3.7L**	
							¶16486895

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(193) Bougainville-Solomon Islands region

ISC	**V**	**01 16 12 42.5–.20**	**6.94S–.03**	**155.83E–.03**	**54–1**	**5.9b,5.2s**	**1568**	**5-163**
NEIC	V	01 16 12 41.4–.09	6.95S	155.86E	46	5.9W,5.8W		**¶16577941**
ISCJB	V	01 16 12 41.9–.61	6.96S–.02	155.80E–.02	62–5	5.8b,5.8W		
MOS	V	01 16 12 41.9–.98	6.93S	155.80E	61	5.7b,5.1s		
BJI	V	01 16 12 41.3	6.75S	155.89E	54	5.5b,5.5b		
GCMT	V	01 16 12 42.3–.10	7.16S	155.76E	54–0	5.8W,5.5b		
IDC	V	01 16 12 43.0–.41	6.97S	155.86E	56–3	5.7,5.4		
NEIC	V	01 16 12 43.0–.00	6.99S	155.60E	58	5.7,5.4		
DJA	V	01 16 12 47.6–.70	7S–3.0	156E–4.0	91–8	6.1b,5.9b		
NEIC	V	01 16 12 58.1–.00	6.62S	155.63E	53	6.1b,5.9b		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=116.0. Felt at Arawa. Also felt at Gizo, Solomon Islands. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}5.83 $M_{\theta\theta}$-4.40 $M_{\phi\phi}$-1.43 $M_{r\theta}$-0.63 $M_{\theta\phi}$3.77 $M_{\phi r}$-0.04 Best double couple: NP1: ϕ_s300.00000°,δ47.00000°,λ84.00000°. NP2:ϕ_s129.00000°,δ43.00000°,λ97.00000°. Principal axes: T 5.8900,Plg85.0000°,Azm149.0000°; N 1.1000,Plg5.0000°,Azm304.0000° ; P -6.9900,Plg2.0000°,Azm34.0000° $M_0$6.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ45.00000°,λ126.00000°. NP2: ϕ_s320.00000°,δ55.00000°,λ60.00000°. Principal axes: T Plg65.0000°,Azm173.0000° ; N Plg0.0000°,Azm0.0000°; P Plg6.0000°,Azm71.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=15.5.
MOS Error ellipse: s-maj=6.4km s-min=5.4km az=102.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c256; s124,c343;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}6.02±.06 $M_{\theta\theta}$-4.04±.05; $M_{\phi\phi}$-1.98±.05; $M_{r\theta}$-0.92±.05; $M_{\theta\phi}$3.61±.04; $M_{\phi r}$-0.34±.05; Best double couple: NP1: ϕ_s299.00000°,δ48.00000°,λ78.00000°. NP2:ϕ_s136.00000°,δ43.00000°,λ103.00000°. Principal axes: T 6.1670,Plg81.0000°,Azm142.0000°; N 0.6200,Plg9.0000°,Azm306.0000° ; P -6.7860,Plg2.0000°,Azm37.0000° $M_0$6.47700×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=7.8km az=78.0.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}5.49 $M_{\theta\theta}$-3.28 $M_{\phi\phi}$-2.21 $M_{r\theta}$-0.57 $M_{\theta\phi}$3.09 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s305.00000° ,δ47.00000°,λ84.00000°. NP2:ϕ_s135.00000°,δ43.00000°,λ97.00000°. Principal axes: T 5.5300,Plg84.0000°,Azm152.0000°; N 0.3600,Plg4.0000°,Azm309.0000° ; P -5.8900,Plg1.0000°,Azm39.0000° $M_0$5.70000×10^{17}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}8.10 $M_{\theta\theta}$-4.46 $M_{\phi\phi}$-3.64 $M_{r\theta}$-1.37 $M_{\theta\phi}$3.92 $M_{\phi r}$0.84 Best double couple: NP1:ϕ_s310.00000° ,δ51.00000°,λ87.00000°. NP2:ϕ_s134.00000°,δ39.00000°,λ93.00000°. Principal axes: T 8.2600,Plg84.0000°,Azm202.0000°; N -0.1200,Plg2.0000°,Azm312.0000° ; P -8.1400,Plg6.0000°,Azm42.0000° $M_0$8.20000×10^{17}

(227) Eastern Honshu

ISC	**V**	**01 19 59 30.9–1.0**	**37.06N–.03**	**140.66E–.04**	**5–7**	**3.6b**	**28**	**0-69**
NIED	V	01 19 59 00	37.10N	140.70E	5	3.9W		**¶17202557**
IDC	V	01 19 59 29.6–.84	36.94N	140.81E	0	3.9,3.7		
JMA	V	01 19 59 30.8	37.07N	140.67E	10–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ17.00000°,λ-90.00000°. NP2:ϕ_s209.00000°,δ73.00000°,λ-90.00000°. $M_0$8.84000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=17.2km az=99.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ53.00000°,λ-71.00000°. NP2:ϕ_s357.00000°,δ41.00000°,λ-113.00000°. Principal axes: T Plg6.0000°,Azm283.0000°; N Plg15.0000°,Azm15.0000°; P Plg74.0000° ,Azm171.0000°

(330) Lake Issyk-Kul region

ISC	**V**	**01 20 29 04.3–.37**	**43.63N–.02**	**77.69E–.02**	**15–2**	**4.0b,3.1s**	**211**	**0-110**
ISCJB	V	01 20 29 03.8–.56	43.72N–.02	77.72E–.02	12–4	3.9b,3.1s		**¶16577944**
MOS	V	01 20 29 03.3–1.0	43.78N	77.66E	17	4.2b,3.1s		
KRNET	V	01 20 29 04.0–.10	43.64N	77.66E	24	4.6b,3.1s		
NNC	V	01 20 29 04.1–.83	43.67N	77.68E	3–6	4.5b,4.2		
IDC	V	01 20 29 04.9–.58	43.52N	77.70E	23–2	3.9,3.9		
SOME	V	01 20 29 05.3	43.62N	77.67E	20	2.8s,3.9		
NEIC	V	01 20 29 05.0–2.1	43.64N	77.73E	21–16	4.0b,3.9		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.2km az=159.7.
MOS Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=84.3. Felt (IV) at Almaty. Moment Tensor Solution.
NNC Event type se. Error ellipse: s-maj=8.6km s-min=3.8km az=167.0.
IDC Error ellipse: s-maj=10.9km s-min=7.1km az=146.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.8km az=163.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**01 22 05 18.2–.20**	**38.38N**	**142.31E**	**29–2**	**3.9**	
							¶600604358

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(238) Ryukyu Islands

ISC	**V**	**01 23 01 59.7–1.3**	**28.72N–.04**	**129.53E–.06**	**12–9**	**3.7b,3.1s**	**42**	**0-76**
IDC	V	01 23 01 57.4–.75	28.69N	129.59E	0	3.8,3.7		**¶17202569**
ISCJB	V	01 23 02 00.5–.46	28.68N–.03	129.63E–.05	29–3	3.6b,3.2s		
NIED	V	01 23 02 00	28.70N	129.60E	20	4.1W,3.2s		
JMA	V	01 23 02 01.2–.10	28.66N	129.59E	16–3	3.9,3.2s		

ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=13.9km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=3.8km az=22.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ24.00000°,λ-133.00000°. NP2:ϕ_s334.00000°,δ72.00000°,λ-73.00000°. $M_0$1.49000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

(169) Samoa Islands region

ISC	**V**	**01 23 19 01.8–.28**	**15.22S–.06**	**172.89W–.06**	**29**	**4.9b,4.3s**	**619**	**2-154**
IDC	V	01 23 18 57.3–.51	15.16S	172.77W	0	4.8,4.6		**¶16486834**
NEIC	V	01 23 18 58.6–.10	15.14S	172.94W	10	5.0b,4.6		
BJI	V	01 23 18 58.4	15.09S	172.98W	6	5.5b,5.3s		
GCMT	V	01 23 18 58.6–.20	14.92S	172.58W	22–1	5.0W,5.3s		
ISCJB	V	01 23 18 59.9–.15	15.22S–.04	172.90W–.04	29	4.9b,4.3s		
MOS	V	01 23 19 02.7–1.0	14.86S	172.68W	33	5.0b,4.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=21.2km s-min=13.8km az=125.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=2.7km az=134.0. Felt at Apia.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c41; s74,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.57±.18 $M_{\theta\theta}$1.86±.14; $M_{\phi\phi}$-0.29±.14; $M_{r\theta}$-0.88±.23; $M_{\theta\phi}$-3.16±.10; $M_{\phi r}$0.97±.24; Best double couple: NP1:ϕ_s168.00000°,δ86.00000° ,λ-22.00000°. NP2:ϕ_s260.00000°,δ68.00000°,λ-175.00000°. Principal axes: T 4.3970,Plg12.0000°,Azm216.0000°; N -1.7520,Plg68.0000°,Azm338.0000° ; P -2.6450,Plg18.0000°,Azm122.0000° $M_0$3.52100×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.0km az=140.3.
MOS Error ellipse: s-maj=11.6km s-min=7.5km az=70.2.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 23 25 26.2–1.2**	**37.74N–.04**	**141.82E–.07**	**41–11**	**4.2b**	**57**	**1-82**
NIED	V	01 23 25 00	37.80N	141.70E	56	4.0W		**¶16577946**
IDC	V	01 23 25 20.4–.73	37.87N	141.94E	0	4.1,4.0		
ISCJB	V	01 23 25 24.8–.70	37.70N–.03	141.87E–.06	46–5	4.0b,2.7s		
NEIC	V	01 23 25 27.0–.83	37.71N	141.86E	50–7	4.4b,2.7s		
JMA	V	01 23 25 28.1	37.78N	141.57E	48–1	4.1,2.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ30.00000°,λ107.00000°. NP2:ϕ_s19.00000°,δ61.00000°,λ80.00000°. $M_0$1.08000×10^{15}
IDC Error ellipse: s-maj=19.8km s-min=14.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.9km az=17.3.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.2km az=121.0. Recorded [2 JMA] in Fukushima.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**01 23 52 21.1–1.0**	**36.70N–.03**	**140.62E–.05**	**8–7**	**3.7b**	**22**	**0-64**
IDC	V	01 23 52 20.0–1.1	36.84N	140.58E	0	3.8,3.6		**¶16486836**
ISCJB	V	01 23 52 20.1–.79	36.67N–.03	140.71E–.06	11–4	3.6b,3.6		
JMA	V	01 23 52 21.1	36.70N	140.63E	7–1	3.3,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=25.0km s-min=16.3km az=170.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.7km az=25.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s343.00000°,δ56.00000°,λ-74.00000°. NP2:ϕ_s135.00000°,δ37.00000°,λ-113.00000°. Principal axes: T Plg10.0000°,Azm61.0000°; N Plg14.0000°,Azm153.0000°; P Plg73.0000° ,Azm296.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**02 00 38 04.4–1.3**	**39.79N–.04**	**142.52E–.05**	**32–8**	**4.1b,3.3s**	**81**	**1-90**
NEIC	V	02 00 37 59.9–1.5	39.39N	143.36E	41–12	4.6b,3.3s		**¶16501705**
ISCJB	V	02 00 38 04.2–.62	39.76N–.04	142.48E–.06	44–5	4.2b,3.4s		
MOS	V	02 00 38 04.8–1.3	39.69N	142.48E	51	4.3b,3.4s		
JMA	V	02 00 38 06.0–.10	39.75N	142.37E	40–1	4.0,3.4s		
IDC	V	02 00 38 09.8–2.0	39.70N	142.29E	76–16	4.0,3.8		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=12.6km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.3km az=34.2.
MOS Error ellipse: s-maj=10.4km s-min=6.8km az=84.8.
JMA Event type fe.
IDC Error ellipse: s-maj=18.7km s-min=11.5km az=112.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**02 00 38 42.1**	**36.70N**	**140.60E**	**9–1**	**3.7**	
							¶600604430

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**02 00 49 07.5–1.5**	**36.41N–.04**	**140.90E–.06**	**26–10**	**3.9b**	**26**	**0-93**

NIED V 02 00 49 00 36.30N 140.90E 20 3.7W ¶17202570
JMA V 02 00 49 06.9–.10 36.33N 140.94E 39–1 3.8
ISCJB V 02 00 49 07.2–.85 36.36N–.04 140.95E–.08 40–7 3.9b,3.2s
IDC V 02 00 49 08.5–5.9 36.37N 140.93E 34–43 3.9,3.8
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s248.00000°,δ13.00000°,λ140.00000°. NP2:ϕ_s18.00000°,δ82.00000°,λ80.00000°. M_o3.68000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.3km az=14.9.
IDC Error ellipse: s-maj=35.4km s-min=16.2km az=73.0.
(228) Near east coast of eastern Honshu
ISC V 02 02 09 34.4–.40 37.64N–.04 141.72E–.04 45–3 4.6b,3.4s 411 1-146
NIED V 02 02 09 00 37.60N 141.70E 56 4.5W,3.4s ¶16486838
MOS V 02 02 09 33.0–.98 37.74N 141.58E 40 4.9b,3.4s
ISCJB V 02 02 09 34.8–.35 37.65N–.02 141.57E–.03 58–2 4.6b,3.6s
JMA V 02 02 09 35.5–.10 37.65N 141.60E 48–2 4.7,3.6s
IDC V 02 02 09 36.3–.53 37.65N 141.57E 57–4 4.6,4.4
NEIC V 02 02 09 37.0–.48 37.62N 141.56E 65–4 4.7b,4.4
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s195.00000°,δ33.00000°,λ91.00000°. NP2:ϕ_s14.00000°,δ57.00000°,λ89.00000°. M_o5.74000×10^{15}
MOS Error ellipse: s-maj=7.2km s-min=4.3km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=135.0.
JMA Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=10.0km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=148.0. Recorded [3 JMA] in Fukushima.
(268) Sulawesi
ISC V 02 02 28 14.1–.81 4.43S–.05 122.87E–.07 10 4.0b 21 3-62
ISCJB V 02 02 28 12.2–.53 4.44S–.04 123.00E–.06 10 3.9b,2.9s ¶16577950
IDC V 02 02 28 13.3–1.2 4.51S 122.82E 0 4.0,3.9
NEIC V 02 02 28 14.1–.70 4.41S 122.93E 10 3.8b,3.9
DJA V 02 02 28 14.9–.50 4S–4.0 123E–4.0 10 5.3b,4.8b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Kendari.
(268) Sulawesi
ISC V 02 02 39 50.9–.56 4.60S–.05 122.76E–.05 33 4.3b,3.3s 44 3-92
IDC V 02 02 39 45.8–.71 4.59S 122.78E 0 4.2,4.1 ¶16487754
NEIC V 02 02 39 46.8–3.7 4.63S 122.80E 6–25 4.2b,4.1
ISCJB V 02 02 39 48.4–.32 4.65S–.04 122.83E–.05 33 4.3b,3.3s
DJA V 02 02 39 49.6–1.1 5S–4.0 123E–3.0 21–14 5.2b,5.0b
ISC Event type fe.
NEIC Event type fe. Felt [III] at Raha.
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC V 02 03 16 54.7–1.1 37.01N–.03 140.46E–.04 5–8 3.8b 34 0-82
NIED V 02 03 16 00 37.00N 140.50E 5 3.9W ¶16486841
ISCJB V 02 03 16 54.9–.42 36.99N–.03 140.59E–.05 19–3 3.7b
JMA V 02 03 16 55.0 36.99N 140.53E 7–2 3.9
IDC V 02 03 17 01.2–2.4 36.92N 140.27E 58–24 3.8,3.7L
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s82.00000°,δ28.00000°,λ-93.00000°. NP2:ϕ_s265.00000°,δ62.00000°,λ-89.00000°. M_o7.12000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=22.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s269.00000°,δ56.00000°,λ-85.00000°. NP2:ϕ_s81.00000°,δ34.00000°,λ-97.00000°. Principal axes: T Plg11.0000°,Azm356.0000°; N Plg4.0000°,Azm87.0000°; P Plg78.0000°,Azm196.0000°
IDC Error ellipse: s-maj=21.4km s-min=13.2km az=73.0.
(224) Hokkaido region
ISC V 02 06 09 34.0–1.5 42.98N–.08 145.52E–.04 32–9 4.0b 45 0-71
NIED V 02 06 09 00 42.90N 145.50E 11 3.8W ¶16577952
MOS V 02 06 09 34.5–1.2 42.92N 145.62E 59 4.2b
ISCJB V 02 06 09 34.2–.90 42.93N–.08 145.52E–.06 51–5 3.8b
JMA V 02 06 09 34.4–.10 42.93N 145.51E 44–1 4.0
SKHL V 02 06 09 35.0–.50 43.00N 145.30E 53–5 4.5b
IDC V 02 06 09 39.1–2.7 43.02N 145.56E 78–21 3.9,3.7
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s153.00000°,δ34.00000°,λ1.00000°. NP2:ϕ_s63.00000°,δ89.00000°,λ124.00000°. M_o5.38000×10^{14}
MOS Error ellipse: s-maj=16.9km s-min=9.9km az=89.4.
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=5.8km az=155.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=22.9km s-min=17.1km az=163.0.
(228) Near east coast of eastern Honshu
ISC V 02 06 25 13.0–.77 39.96N–.04 142.47E–.07 31 3.7b 32 0-70
NIED V 02 06 25 00 39.90N 142.40E 38 3.8W ¶17202586
ISCJB V 02 06 25 11.1–.57 39.91N–.04 142.59E–.06 31 3.7b,3.0s
JMA V 02 06 25 13.6–.10 39.92N 142.40E 38–1 3.7,3.0s
IDC V 02 06 25 18.8–2.1 39.84N 142.34E 87–18 3.7,3.5
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s238.00000°,δ13.00000°,λ129.00000°. NP2:ϕ_s18.00000°,δ80.00000°,λ82.00000°. M_o4.75000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.3km az=36.4.
JMA Event type fe.
IDC Error ellipse: s-maj=19.1km s-min=13.0km az=110.0.
(228) Near east coast of eastern Honshu
ISC V 02 06 44 18.7–1.6 36.37N–.05 140.85E–.06 31–11 3.5b 30 0-65
NIED V 02 06 44 00 36.30N 140.80E 50 3.7W ¶17202587
JMA V 02 06 44 19.7–.10 36.35N 140.82E 49–1 3.8
IDC V 02 06 44 21.4–2.1 36.34N 140.88E 62–20 3.6,3.5
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s203.00000°,δ40.00000°,λ112.00000°. NP2:ϕ_s356.00000°,δ54.00000°,λ73.00000°. M_o4.41000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=18.6km s-min=10.5km az=69.0.
(228) Near east coast of eastern Honshu
ISC V 02 07 55 17.3–1.3 36.62N–.04 140.88E–.06 17–7 3.7b 31 0-78
NIED V 02 07 55 00 36.60N 140.80E 14 3.7W ¶16486855
ISCJB V 02 07 55 16.6–.81 36.59N–.04 140.95E–.06 26–5 3.8b
JMA V 02 07 55 18.1 36.60N 140.83E 28–1 3.9
IDC V 02 07 55 22.2–2.3 36.55N 140.78E 60–24 3.6,3.5
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s347.00000°,δ32.00000°,λ-56.00000°. NP2:ϕ_s128.00000°,δ64.00000°,λ-110.00000°. M_o3.53000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.1km az=29.0.
JMA Event type fe.
IDC Error ellipse: s-maj=19.5km s-min=10.4km az=68.0.
(228) Near east coast of eastern Honshu
ISC V 02 09 52 50.5–.60 37.07N–.04 141.47E–.05 31–3 3.7b 46 1-147
NIED V 02 09 52 00 37.10N 141.40E 41 3.7W ¶17202603
ISCJB V 02 09 52 50.5–.74 37.05N–.03 141.45E–.07 47–7 3.6b,2.7s
JMA V 02 09 52 51.4–.10 37.08N 141.41E 46–2 3.9,2.7s
IDC V 02 09 52 52.6–.58 37.05N 141.34E 48–5 3.7,3.7
ISC Event type ke.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s81.00000°,δ23.00000°,λ124.00000°. NP2:ϕ_s225.00000°,δ71.00000°,λ77.00000°. M_o3.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.3km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=9.7km az=111.0.
(228) Near east coast of eastern Honshu
ISC V 02 11 29 48.8–.40 38.59N–.04 141.98E–.04 44–3 4.5b,3.5s 207 1-146
NIED V 02 11 29 00 38.60N 141.90E 47 4.4W,3.5s ¶16487756
MOS V 02 11 29 45.8–.98 38.63N 141.89E 33 4.6b,3.5s
ISCJB V 02 11 29 47.6–.42 38.62N–.02 141.96E–.04 52–3 4.4b,3.6s
JMA V 02 11 29 49.0–.10 38.62N 141.89E 49–1 4.3,3.6s
IDC V 02 11 29 49.0–.45 38.64N 141.81E 46–3 4.3,4.2
NEIC V 02 11 29 50.7–.59 38.64N 141.88E 63–5 4.7b,4.2
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s187.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ96.00000°. M_o4.55000×10^{15}
MOS Error ellipse: s-maj=8.7km s-min=5.3km az=100.6.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=24.0.
JMA Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.4km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.2km az=125.0. Recorded [3 JMA] in Miyagi.
(518) Texas-Mexico border region
ISC V 02 11 43 27.4–.87 30.74N–.03 105.70W–.04 7–5 4.3b,3.5s 262 1-127
IDC V 02 11 43 26.2–.56 30.74N 105.76W 0 4.3,4.1 ¶16487757
NEIC V 02 11 43 28.2–.30 30.73N 105.72W 10 4.5,4.3b
MEX V 02 11 43 28.6–.59 30.75N 105.66W 5–12 4.5,4.3b
ISC Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=5.6km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=193.0. Felt at Ciudad Juarez. Felt [II] at El Paso, Texas. Felt at Santa Teresa, New Mexico. Moment Tensor Solution. s42 Moment tensor: Scale 10^{15}Nm; M_{rr}-2.25 $M_{\theta\theta}$0.00 $M_{\phi\phi}$2.25 $M_{r\theta}$-0.35 $M_{\theta\phi}$-0.60 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s152.00000°,δ33.00000°,λ-114.00000°. NP2:ϕ_s0.00000°,δ60.00000°,λ-75.00000°. Principal axes: T 2.6900,Plg14.0000°,Azm79.0000°; N 0.0000,Plg13.0000°,Azm172.0000°; P -2.6900,Plg71.0000°,Azm304.0000° M_o2.70000×10^{15}
MEX Error ellipse: s-maj=10.3km s-min=10.5km az=-1.0.
(228) Near east coast of eastern Honshu
ISC V 02 12 36 46.0–.31 38.33N–.04 142.22E–.03 30–1 4.8b,4.2s 750 1-145
NIED V 02 12 36 00 38.30N 142.20E 38 4.8W,4.2s ¶16487758
IDC V 02 12 36 41.6–.44 38.27N 142.10E 0 4.7,4.7
JMA V 02 12 36 45.7–.10 38.31N 142.23E 38–2 4.7,4.7
MOS V 02 12 36 46.5–.95 38.52N 142.06E 33 5.0b,4.0s
ISCJB V 02 12 36 47.0–.42 38.34N–.03 142.10E–.02 44–3 4.8b,4.2s
NEIC V 02 12 36 49.4–.45 38.33N 142.06E 52–4 4.8b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s11.00000°,δ50.00000°,λ-97.00000°. M_o1.65000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=10.6km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=99.7.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=158.2.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=142.0. Recorded [2 JMA] in Iwate and Miyagi.
(518) Texas-Mexico border region
ISC V 02 13 55 36.5–.65 30.82N–.04 105.69W–.03 5–3 4.5b 307 1-127
IDC V 02 13 55 35.7–.58 30.80N 105.68W 0 4.3,4.2b ¶16487763
NEIC V 02 13 55 36.8–1.3 30.73N 105.67W 5–9 4.4,4.4b
MEX V 02 13 55 38.8–.42 30.76N 105.63W 5 4.4,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=17.3km s-min=6.5km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=193.0. Felt at Ciudad Juarez. Felt [II] at El Paso, Texas. Also felt at San Elizario and Sierra Blanca. Moment Tensor Solution. M_o2.80000×10^{15}
MEX Error ellipse: s-maj=4.3km s-min=4.6km az=-1.0.
(228) Near east coast of eastern Honshu
ISC V 02 15 14 20.8–1.6 36.72N–.05 141.24E–.08 32–10 3.5b 29 1-74
NIED V 02 15 14 00 36.70N 141.10E 53 3.8W ¶17202620
IDC V 02 15 14 15.9–.88 36.72N 141.35E 0 3.8,3.7
ISCJB V 02 15 14 20.3–.96 36.69N–.04 141.25E–.09 44–8 3.8s,3.5b
JMA V 02 15 14 22.6–.10 36.72N 141.05E 46–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ26.00000°,λ20.00000°. NP2:ϕ_s219.00000°,δ81.00000°,λ115.00000°. M_o5.17000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=15.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=5.8km az=11.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(115) Near coast of Peru
ISC V 02 15 30 41.7–.95 16.39S–.09 74.48W–.10 35 14 5-149
ISCJB V 02 15 30 38.5–.81 16.54S–.08 74.61W–.08 33 3.6b,3.4s ¶16708614
NEIC V 02 15 30 38.7–1.0 16.43S 74.65W 16–6 4.1L,3.4s
IDC V 02 15 30 44.9–2.6 16.19S 74.34W 78–20 3.9,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=5.7km az=44.3.
NEIC Event type fe. Error ellipse: s-maj=31.4km s-min=9.0km az=224.0. Felt [II] at Yauca.
IDC Error ellipse: s-maj=36.3km s-min=13.4km az=35.0.
(196) Irian Jaya region
ISC V 02 15 42 37.2–.26 3.41S–.03 135.50E–.03 22 5.2b,4.2s 382 2-152
IDC V 02 15 42 33.8–.42 3.27S 135.55E 0 4.8,4.8 ¶16708616
ISCJB V 02 15 42 35.1–.15 3.36S–.02 135.61E–.02 22 5.1b,4.2s
BJI V 02 15 42 36.9 3.13S 135.79E 31 5.3b,5.2b
GCMT V 02 15 42 36.9–.20 3.31S 135.43E 17–1 5.2W,5.2b
MOS V 02 15 42 36.8–.89 3.31S 135.53E 33 5.3b,5.2b
NEIC V 02 15 42 36.9–1.6 3.29S 135.55E 22–12 5.2b,5.2b
DJA V 02 15 42 38.5–.70 3S–2.0 136E–1.0 16–6 5.5b,5.4
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c91; s98,c154;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.09±.10 $M_{\theta\theta}$-1.41±.08; $M_{\phi\phi}$1.51±.10; $M_{r\theta}$-5.06±.44; $M_{\theta\phi}$-3.66±.08; $M_{\phi r}$0.93±.22; Best double couple: NP1:ϕ_s101.00000°,δ89.00000°,λ-127.00000°. NP2:ϕ_s10.00000°,δ37.00000°,λ-1.00000°. Principal axes: T 6.4650,Plg34.0000°,Azm222.0000°; N 0.0390,Plg37.0000°,Azm102.0000°; P -6.4970,Plg35.0000°,Azm340.0000° M_o6.48100×10^{16}
NEIC Event type fe. Felt [IV] at Nabire.
(228) Near east coast of eastern Honshu
ISC V 02 16 43 56.4–1.2 37.01N–.04 140.49E–.06 6–11 3.3b 21 0-61
IDC V 02 16 43 54.4–2.0 37.07N 140.68E 0 3.4,3.3 ¶17202624
ISCJB V 02 16 43 56.5–.55 36.99N–.03 140.60E–.04 17–7 3.2b,3.0s
JMA V 02 16 43 56.6 36.99N 140.53E 5–1 3.2,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=25.8km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.6km az=9.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ54.00000°,λ-83.00000°. NP2:ϕ_s243.00000°,δ36.00000°,λ-99.00000°. Principal axes: T Plg9.0000°,Azm160.0000°; N Plg6.0000°,Azm251.0000°; P Plg79.0000°,Azm11.0000°
(228) Near east coast of eastern Honshu
ISC V 02 17 44 09.1–1.1 37.20N–.06 141.61E–.07 33 3.4b 19 1-57
NIED V 02 17 44 00 37.20N 141.50E 35 3.5W ¶17202627
IDC V 02 17 44 04.5–1.4 37.06N 141.93E 0 3.6,3.6
JMA V 02 17 44 10.5–.20 37.20N 141.52E 46–2 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ53.00000°,λ131.00000°. NP2:ϕ_s216.00000°,δ53.00000°,λ49.00000°. M_o2.25000×10^{14}
IDC Error ellipse: s-maj=30.3km s-min=20.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(498) Western Texas
ISC V 02 19 07 14.8–.77 33.04N–.03 100.79W–.03 10 128 1-8
ISCJB V 02 19 07 13.9–.27 33.05N–.02 100.84W–.02 10 ¶16489791
NEIC V 02 19 07 15.0–.39 33.06N 100.79W 5 3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=140.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=185.0. Felt at Snyder.
(228) Near east coast of eastern Honshu
ISC V 02 20 01 47.6–1.4 36.66N–.05 141.2E–.10 43–12 3.9b,3.1s 32 0-147
NIED V 02 20 01 00 36.70N 141.10E 44 4.0W,3.1s ¶17202638
ISCJB V 02 20 01 46.0–.80 36.64N–.04 141.20E–.08 45–6 3.9b,3.3s
JMA V 02 20 01 47.3–.10 36.66N 141.10E 45–1 4.0,3.3s
IDC V 02 20 01 51.1–2.2 36.56N 140.98E 77–20 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ1.00000°,λ-177.00000°. NP2:ϕ_s27.00000°,δ90.00000°,λ-89.00000°. M_o1.23000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.4km az=13.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=9.6km az=67.0.
(224) Hokkaido region
ISC V 02 20 15 43.7–1.1 41.38N–.03 141.22E–.06 13–7 3.8b 21 0-65

NIED V 02 20 15 00 41.40N 141.30E 5 3.6W ¶17202639
ISCJB V 02 20 15 43.3–.70 41.39N–.03 141.24E–.08 22–5 3.7b
JMA V 02 20 15 43.5 41.40N 141.26E 7–1 3.5
IDC V 02 20 15 50.4–1.7 41.50N 141.18E 69–17 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ37.00000°,λ90.00000°. NP2:ϕ_s140.00000°,δ53.00000°,λ90.00000°. $M_0$3.23000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.8km az=179.6.
JMA Event type fe.
IDC Error ellipse: s-maj=24.1km s-min=12.3km az=112.0.

(228) Near east coast of eastern Honshu

ISC V 02 20 31 16.3–.62 37.18N–.04 141.33E–.06 27–3 4.5b 110 0-151
NIED V 02 20 31 00 37.20N 141.40E 20 4.2W ¶16577961
ISCJB V 02 20 31 14.8–.82 37.18N–.03 141.38E–.06 28–5 4.4b,3.1s
JMA V 02 20 31 16.0–.20 37.17N 141.31E 34–1 4.3,3.1s
IDC V 02 20 31 16.6–.60 37.21N 141.25E 28–3 4.4,4.3
NEIC V 02 20 31 17.9–.82 37.23N 141.27E 37–7 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ33.00000°,λ-98.00000°. NP2:ϕ_s73.00000°,δ58.00000°,λ-85.00000°. $M_0$2.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.2km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=140.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.5km az=136.0. Recorded [2 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

ISC V 02 21 25 49.7–.29 40.07N–.03 142.67E–.04 38–1 5.1b,4.6s 884 1-151
NIED V 02 21 25 00 40.10N 142.70E 35 5.1W,4.6s ¶16487926
BJI V 02 21 25 45.0 39.93N 142.81E 31 5.1b,5.0b
JMA V 02 21 25 47.9–.20 40.06N 142.72E 31–2 5.1,5.0b
ISCJB V 02 21 25 48.8–.37 40.08N–.02 142.59E–.02 40–3 5.1b,4.5s
MOS V 02 21 25 48.3–.84 40.21N 142.55E 31 5.4b,4.7s
NEIC V 02 21 25 49.5–.14 40.10N 142.56E 32 5.1b,4.7s
GCMT V 02 21 25 49.5–.20 40.13N 142.77E 37–0 5.1W,4.7s
IDC V 02 21 25 50.0–1.8 40.08N 142.71E 40–15 4.9,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ69.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ98.00000°. $M_0$4.51000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=138.6.
MOS Error ellipse: s-maj=6.3km s-min=3.6km az=107.3.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=140.0. Recorded [3 JMA] in Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c76; s86,c150; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.08±.17 $M_{\theta\theta}$-0.30±.10; $M_{\phi\phi}$-3.78±.11; $M_{r\theta}$1.27±.10; $M_{\theta\phi}$-0.71±.06; $M_{\phi r}$3.27±.11; Best double couple: NP1:ϕ_s18.00000°,δ66.00000°,λ95.00000°. NP2:ϕ_s185.00000°,δ25.00000°,λ79.00000°. Principal axes: T 5.4240,Plg69.0000°,Azm298.0000°; N -0.2120,Plg5.0000°,Azm195.0000°; P -5.2140,Plg21.0000°,Azm104.0000° $M_0$5.31900×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=113.0.

(377) Spain

ISC V 02 23 30 09.2–.91 37.99N–.02 6.53W–.02 28–8 347 0-10
CNRM V 02 23 30 06.6 38.01N 6.71W 30 3.6 ¶16487930
CSEM V 02 23 30 08.1–.07 38.00N 6.54W 10 3.9L
INMG V 02 23 30 09.6–1.4 37.97N 6.55W 13–2 3.4L,3.3
IGIL V 02 23 30 09.2 37.97N 6.55W 7 2.7L,3.3
LDG V 02 23 30 10.5–.12 37.97N 6.56W 20 3.1L,3.3
MDD V 02 23 30 10.3–.19 37.99N 6.57W 20–1 3.4,3.3
SFS V 02 23 30 10.0 37.98N 6.56W 20 3.5L,3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=11.0.
INMG Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=29.0.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=5.0.
MDD Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=24.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
SFS Event type ke.

(228) Near east coast of eastern Honshu

ISC V 02 23 46 03.3–2.1 39.17N–.06 142.4E–.10 32–11 3.6b 19 1-59
IDC V 02 23 45 56.6–2.7 39.20N 142.94E 0 3.8,3.7b ¶17202648
NIED V 02 23 46 00 39.10N 142.40E 32 3.5W,3.7b
ISCJB V 02 23 46 03.4–1.6 39.09N–.06 142.3E–.20 46–12 3.6b,3.7b
JMA V 02 23 46 03.3–.10 39.10N 142.37E 35–1 3.6,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=68.4km s-min=29.8km az=71.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ21.00000°,λ-39.00000°. NP2:ϕ_s149.00000°,δ77.00000°,λ-107.00000°. $M_0$1.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=20.6km s-min=8.1km az=17.3.
JMA Event type fe.

(74) Near coast of Nicaragua

ISC V 02 23 55 39.7–.35 12.01N–.03 87.64W–.03 33–1 5.5b,5.1s 1425 1-166
ISCJB V 02 23 55 38.4–.14 12.14N–.02 87.45W–.02 33 5.4b,5.0s ¶16487931
IDC V 02 23 55 38.7–1.7 12.36N 87.19W 24–9 5.2,5.2
BJI V 02 23 55 38.8 12.10N 87.50W 25 5.4b,5.4s
MOS V 02 23 55 39.2–1.4 12.37N 87.30W 33 5.4b,5.1s
NEIC V 02 23 55 39.5–.20 12.13N 87.47W 28 5.6b,5.5
SSS V 02 23 55 39.9 12.07N 87.67W 26 5.5W,5.4L
INET V 02 23 55 39.1 12.01N 87.70W 8 5.5L,5.4L
CASC V 02 23 55 39.9–1.7 12.06N 87.68W 24 5.5b,5.2L
GCMT V 02 23 55 40.4–.10 11.90N 87.95W 32–0 5.5W,5.2L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=1.9km az=41.4.
IDC Error ellipse: s-maj=18.1km s-min=10.2km az=60.0.
MOS Error ellipse: s-maj=9.1km s-min=4.7km az=109.6.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=37.0. Felt [II] at Diriamba and Managua. Also felt at Chinandega, Corinto and Leon. Felt [III] at San Salvador, El Salvador. Felt at Santa Cruz, Costa Rica and at Tegucigalpa, Honduras. Complex earthquake observed on broadband displacement seismograms. A large event is followed by a smaller event about 2 seconds later. Depth based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s40 Moment tensor: Scale 10^{17}Nm; M_{rr}1.54 $M_{\theta\theta}$-0.72 $M_{\phi\phi}$-0.82 $M_{r\theta}$0.41 $M_{\theta\phi}$0.83 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s133.00000°,δ54.00000°,λ85.00000°. NP2:ϕ_s321.00000°,δ37.00000°,λ96.00000°. Principal axes: T 1.6200,Plg81.0000°,Azm22.0000°; N 0.0600,Plg4.0000°,Azm136.0000°; P -1.6800,Plg9.0000°,Azm226.0000° $M_0$1.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s330.00000°,δ15.00000°,λ90.00000°. NP2:ϕ_s150.00000°,δ75.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm60.0000°; N Plg0.0000°,Azm0.0000°; P Plg30.0000°,Azm240.0000°
CASC Error ellipse: s-maj=3.9km s-min=2.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s108,c197; s111,c216; Duration: 1⁋4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.06±.04 $M_{\theta\theta}$-1.74±.03; $M_{\phi\phi}$-0.32±.03; $M_{r\theta}$1.05±.04; $M_{\theta\phi}$1.19±.02; $M_{\phi r}$-0.87±.05; Best double couple: NP1:ϕ_s126.00000°,δ61.00000°,λ96.00000°. NP2:ϕ_s293.00000°,δ30.00000°,λ79.00000°. Principal axes: T 2.4550,Plg73.0000°,Azm52.0000°; N 0.3290,Plg6.0000°,Azm302.0000°; P -2.7890,Plg16.0000°,Azm211.0000° $M_0$2.62200×10^{17}

(228) Near east coast of eastern Honshu

JMA V 03 00 10 14.1–.10 38.95N 142.35E 33–2 3.9
NIED V 03 00 10 00 38.90N 142.40E 56 4.5W ¶600605303
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ35.00000°,λ-25.00000°. NP2:ϕ_s117.00000°,δ76.00000°,λ-123.00000°. $M_0$6.24000×10^{15}

(228) Near east coast of eastern Honshu

ISC V 03 02 13 23.9–.92 36.95N–.03 140.63E–.04 13–6 3.5b 29 0-147
NIED V 03 02 13 00 37.00N 140.60E 8 3.7W ¶600605358
ISCJB V 03 02 13 23.4–.54 36.93N–.03 140.74E–.05 19–4 3.6b
JMA V 03 02 13 24.2 36.96N 140.62E 9–1 3.8
IDC V 03 02 13 29.1–2.6 36.82N 140.64E 55–26 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ43.00000°,λ-77.00000°. NP2:ϕ_s32.00000°,δ48.00000°,λ-102.00000°. $M_0$4.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.3km az=19.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s45.00000°,δ47.00000°,λ-90.00000°. NP2:ϕ_s225.00000°,δ43.00000°,λ-90.00000°. Principal axes: T Plg2.0000°,Azm135.0000°; N Plg0.0000°,Azm45.0000°; P Plg88.0000°,Azm315.0000°
IDC Error ellipse: s-maj=21.0km s-min=11.6km az=55.0.

(518) Texas-Mexico border region

ISC V 03 02 58 30.1–.61 30.83N–.03 105.68W–.03 10 130 1-74
ISCJB V 03 02 58 28.0–.26 30.72N–.03 105.68W–.02 10 3.9b ¶16488872
IDC V 03 02 58 28.5–.90 30.77N 105.78W 0 4.0,4.0b
NEIC V 03 02 58 30.2–.33 30.67N 105.73W 10 4.0b,3.8W
MEX V 03 02 58 30.6–.27 30.88N 105.49W 20–9 4.5,3.8W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.5km az=8.4.
IDC Error ellipse: s-maj=20.0km s-min=6.6km az=47.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=188.0. Felt at El Paso, Texas. Moment Tensor Solution. s55 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.49 $M_{\theta\theta}$-0.40 $M_{\phi\phi}$5.90 $M_{r\theta}$-1.75 $M_{\theta\phi}$-2.05 $M_{\phi r}$-3.03 Best double couple: NP1:ϕ_s142.00000°,δ38.00000°,λ-126.00000°. NP2:ϕ_s5.00000°,δ60.00000°,λ-65.00000°. Principal axes: T 7.0000,Plg12.0000°,Azm77.0000°; N 0.0000,Plg21.0000°,Azm172.0000°; P -7.0000,Plg65.0000°,Azm321.0000° $M_0$7.00000×10^{14}
MEX Error ellipse: s-maj=3.1km s-min=4.0km az=-1.0.

(137) San Juan Province

ISC V 03 03 57 24.5–.53 31.21S–.05 68.52W–.04 109–4 4.3b 84 0-173
ISCJB V 03 03 57 24.1–.30 31.29S–.03 68.52W–.04 114–3 4.2b ¶16493769
NEIC V 03 03 57 24.0 31.31S 68.54W 108 4.4b,4.2
GUC V 03 03 57 24.6–.41 31.19S 68.78W 137–38 4.2L,4.2
SJA V 03 03 57 24.3–1.2 31.32S 68.54W 108–6 4.2L,4.1W
IDC V 03 03 57 25.2–.78 31.36S 68.54W 112–5 4.1,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.8km az=32.2.
NEIC Event type fe. Felt [II] in the epicentral area. After SJA.
GUC Error ellipse: s-maj=1.6km s-min=21.2km az=-1.0.
SJA Error ellipse: s-maj=3.4km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=27.7km s-min=19.4km az=71.0.

(228) Near east coast of eastern Honshu

ISC V 03 03 57 49.7–.79 36.79N–.05 141.27E–.06 13–3 3.8b 32 0-147
NIED V 03 03 57 00 36.80N 141.20E 8 3.7W ¶600605398
ISCJB V 03 03 57 48.5–1.1 36.75N–.04 141.36E–.06 18–7 3.7b,3.2s
IDC V 03 03 57 50.7–.93 36.72N 141.21E 19–5 3.8,3.7
JMA V 03 03 57 50.2–.10 36.76N 141.22E 36–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ39.00000°,λ-83.00000°. NP2:ϕ_s200.00000°,δ51.00000°,λ-95.00000°. $M_0$4.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.3km az=18.5.
IDC Error ellipse: s-maj=20.1km s-min=14.8km az=91.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC V 03 05 26 08.6–.99 34.85N–.03 140.17E–.04 27–7 4.1b,3.4s 45 0-149
NIED V 03 05 26 00 35.00N 140.20E 11 4.0W,3.4s ¶16708669
IDC V 03 05 26 05.0–.61 34.91N 140.09E 0 4.2,4.1L
ISCJB V 03 05 26 08.3–.39 34.92N–.03 140.24E–.05 40–4 4.0b,3.5s
JMA V 03 05 26 08.9–.10 35.00N 140.24E 33–2 4.2,3.5s
NEIC V 03 05 26 09.9–.37 34.90N 140.06E 35 4.3b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ28.00000°,λ-137.00000°. NP2:ϕ_s231.00000°,δ71.00000°,λ-69.00000°. $M_0$1.33000×10^{15}
IDC Error ellipse: s-maj=19.2km s-min=13.0km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.3km az=161.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ51.00000°,λ-105.00000°. NP2:ϕ_s225.00000°,δ41.00000°,λ-72.00000°. Principal axes: T Plg5.0000°,Azm122.0000°; N Plg12.0000°,Azm31.0000°; P Plg77.0000°,Azm234.0000°
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.6km az=76.0. Recorded [2 JMA] in Chiba.

(228) Near east coast of eastern Honshu

ISC V 03 06 22 25.5–1.8 35.76N–.05 141.47E–.07 15–10 4.1b 42 0-147
NIED V 03 06 22 00 35.80N 141.40E 23 4.2W ¶16577965
JMA V 03 06 22 25.3–.30 35.80N 141.44E 10–4 4.2
ISCJB V 03 06 22 26.4–1.0 35.72N–.04 141.45E–.08 35–9 4.0b,3.1s
NEIC V 03 06 22 28.3–1.1 35.67N 141.41E 37–9 4.5b,3.1s
IDC V 03 06 22 28.5–3.4 35.68N 141.38E 37–29 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ41.00000°,λ-48.00000°. NP2:ϕ_s172.00000°,δ61.00000°,λ-120.00000°. $M_0$1.99000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.8km az=174.7.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.1km az=121.0. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=18.4km s-min=16.4km az=112.0.

(162) South Island

ISC V 03 06 55 19.2–.79 41.48S–.04 173.29E–.04 119–5 248 0-152
ISCJB V 03 06 55 17.9–.26 41.51S–.03 173.35E–.04 135–4 3.7b ¶16489317
IDC V 03 06 55 17.7–1.1 41.50S 173.42E 94–12 4.1,4.0
NEIC V 03 06 55 20.0 41.35S 173.23E 114 5.0,4.0
WEL V 03 06 55 20.4–.21 41.40S 173.25E 111–1 4.9L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=2.7km az=40.1.
IDC Error ellipse: s-maj=34.1km s-min=8.8km az=131.0.
NEIC Event type fe. Felt in Marlborough, Nelson and Wellington. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.5km az=0.0. Felt from Whanganui to Canterbury, maximum reported intensity MM 5.

(43) Southern California

ISC V 03 08 27 31.5–.89 34.06N–.02 117.85W–.02 13–7 58 0-3
ISCJB V 03 08 27 31.4–.41 34.04N–.02 117.87W–.02 7–3 ¶16503259
NEIC V 03 08 27 32.5 34.07N 117.87W 12 3.0L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=18.2.
NEIC Event type fe. Felt [II] in the Chino-Monrovia-Rancho Cucamonga area. Felt in the Los Angeles area and as far as Lancaster and Palm Springs. After PAS.

(228) Near east coast of eastern Honshu

ISC V 03 10 26 02.4–2.6 36.55N–.05 142.00E–.06 7–15 4.2b,3.5s 84 1-147
NIED V 03 10 26 00 36.60N 141.90E 26 4.2W,3.5s ¶16577968
ISCJB V 03 10 26 02.5–1.0 36.54N–.03 142.01E–.04 21–7 4.1b,3.4s
JMA V 03 10 26 05.5–.20 36.61N 141.88E 38–5 4.1,3.4s
MOS V 03 10 26 05.1–1.3 36.63N 141.96E 41 4.4b,3.4s
NEIC V 03 10 26 06.9–.41 36.57N 141.92E 35 4.3b,3.4s
IDC V 03 10 26 09.0–2.4 36.47N 141.81E 55–23 4.1,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ6.00000°,λ-143.00000°. NP2:ϕ_s222.00000°,δ86.00000°,λ-85.00000°. $M_0$2.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=10.4km s-min=7.5km az=93.3.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=7.8km az=124.0. Recorded [1 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=17.6km s-min=10.3km az=79.0.

(228) Near east coast of eastern Honshu

ISC V 03 11 44 08.8–.71 37.49N–.04 141.48E–.05 57–5 4.5b,3.2s 130 0-150
NIED V 03 11 44 00 37.50N 141.40E 47 4.2W,3.2s ¶600605700
ISCJB V 03 11 44 07.0–.48 37.48N–.03 141.47E–.05 57–3 4.4b,3.4s
MOS V 03 11 44 07.6–1.0 37.54N 141.41E 62 4.7b,3.4s
JMA V 03 11 44 08.5–.10 37.51N 141.38E 49–1 4.3,3.4s
IDC V 03 11 44 09.1–1.9 37.47N 141.26E 56–17 4.2,4.1
NEIC V 03 11 44 10.2–.75 37.48N 141.41E 70–6 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ18.00000°,λ107.00000°. NP2:ϕ_s18.00000°,δ73.00000°,λ85.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=23.8.
MOS Error ellipse: s-maj=8.9km s-min=6.2km az=99.2.
JMA Event type fe.
IDC Error ellipse: s-maj=16.0km s-min=10.3km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.8km az=115.0. Recorded [2 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu
JMA V 03 13 35 41.2 36.74N 140.56E 9 2.5 ¶602919011
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC V 03 13 35 54.3–.47 38.89N–.03 141.98E–.04 46–3 4.8b,4.1s 497 0-145
ISCJB V 03 13 35 54.3–.33 38.86N–.02 141.93E–.03 56–2 4.8b,4.0s **¶16489807**
MOS V 03 13 35 54.3–.92 39.04N 141.90E 49 5.1b,4.0s
IDC V 03 13 35 54.9–1.7 38.86N 141.95E 47–16 4.7,4.6
JMA V 03 13 35 54.1–.10 38.80N 142.04E 47–1 4.8,4.6
NEIC V 03 13 35 56.2–.45 38.85N 141.90E 60–4 4.7b,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=136.7.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=105.5.
IDC Error ellipse: s-maj=12.3km s-min=9.6km az=107.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.
(227) Eastern Honshu
ISC V 03 13 57 15.1–.83 37.05N–.03 140.52E–.04 14–5 4.5b,3.2s 169 0-147
NIED V 03 13 57 00 37.00N 140.60E 5 4.3W,3.2s **¶16489808**
ISCJB V 03 13 57 14.6–.36 37.02N–.02 140.60E–.03 21–2 4.4b,3.3s
JMA V 03 13 57 14.8 37.01N 140.59E 8–1 4.5,3.3s
MOS V 03 13 57 16.5–1.4 37.02N 140.71E 38 4.6b,3.3s
IDC V 03 13 57 19.8–1.5 37.03N 140.39E 47–15 4.3,4.2
NEIC V 03 13 57 20.1–.68 36.97N 140.42E 50–6 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ30.00000°,λ-63.00000°. NP2:ϕ_s277.00000°,δ64.00000°,λ-105.00000°. $M_0$2.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=33.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s292.00000°,δ53.00000°,λ-74.00000°. NP2:ϕ_s85.00000°,δ40.00000°,λ-111.00000°. Principal axes: T Plg7.0000°,Azm10.0000°; N Plg13.0000°,Azm102.0000°; P Plg75.0000°,Azm252.0000°
MOS Error ellipse: s-maj=8.9km s-min=5.7km az=92.2.
IDC Error ellipse: s-maj=14.7km s-min=9.3km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.4km az=120.0. Recorded [4 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC V 03 14 02 27.4–1.9 37.17N–.04 141.34E–.07 10–11 3.1b 19 0-64
IDC V 03 14 02 26.3–1.8 37.27N 141.34E 0 3.3,3.2 **¶600605801**
ISCJB V 03 14 02 27.6–1.3 37.16N–.04 141.38E–.09 22–8 3.1b,3.2
JMA V 03 14 02 30.1–.10 37.20N 141.20E 30–1 3.4,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=49.7km s-min=26.2km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.8km az=14.6.
JMA Event type fe.
(315) India-Bangladesh border region
ISC V 03 14 38 56.9–.65 23.37N–.05 90.72E–.05 35 3.7b,2.9s 36 2-63
IDC V 03 14 38 53.9–1.9 23.65N 90.95E 0 3.8,3.7 **¶17202685**
ISCJB V 03 14 38 54.6–.44 23.37N–.04 90.68E–.04 33 3.7b,2.8s
NEIC V 03 14 39 00.2–.96 23.69N 91.32E 10 4.0b,2.8s
ISC Event type fe.
IDC Error ellipse: s-maj=84.5km s-min=19.0km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=178.7.
NEIC Event type fe. Error ellipse: s-maj=16.8km s-min=14.2km az=202.0. Felt at Comilla, Feni, Lakshmipur and in the Dhaka area, Bangladesh.
(227) Eastern Honshu
ISC V 03 14 53 06.6–1.1 37.05N–.04 140.77E–.09 8–7 17 0-57
NIED V 03 14 53 00 37.00N 140.80E 5 3.4W **¶600605847**
IDC V 03 14 53 04.8–2.7 37.13N 140.89E 0 3.5,3.3b
ISCJB V 03 14 53 05.4–.97 37.02N–.04 140.89E–.08 12–4 3.4b,3.3b
JMA V 03 14 53 06.3 37.04N 140.82E 10–1 3.5,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ26.00000°,λ-101.00000°. NP2:ϕ_s42.00000°,δ65.00000°,λ-85.00000°. $M_0$1.62000×10^{14}
IDC Error ellipse: s-maj=45.4km s-min=36.1km az=34.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.8km az=11.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ62.00000°,λ-77.00000°. NP2:ϕ_s203.00000°,δ31.00000°,λ-113.00000°. Principal axes: T Plg16.0000°,Azm130.0000°; N Plg12.0000°,Azm223.0000°; P Plg70.0000°,Azm348.0000°
(228) Near east coast of eastern Honshu
ISC V 03 15 27 48.1–1.1 35.74N–.05 140.75E–.08 49–9 18 0-56
IDC V 03 15 27 41.8–2.0 35.72N 140.98E 0 3.5,3.5 **¶17202689**
ISCJB V 03 15 27 46.7–.76 35.76N–.05 140.82E–.09 58–6 4.0s,3.5b
JMA V 03 15 27 48.2–.10 35.76N 140.66E 47–1 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=47.4km s-min=24.5km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.4km az=159.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC V 03 15 44 54.6–1.9 37.10N–.06 141.54E–.08 24–13 3.8b 25 1-147
NIED V 03 15 44 00 37.20N 141.40E 44 3.9W **¶17202693**
IDC V 03 15 44 50.7–.83 37.07N 141.77E 0 4.0,3.9
ISCJB V 03 15 44 52.3–1.3 37.05N–.04 141.62E–.08 22–8 4.3s,3.8b
JMA V 03 15 44 55.5–.10 37.18N 141.38E 48–1 3.9,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ49.00000°,λ142.00000°. NP2:ϕ_s199.00000°,δ62.00000°,λ48.00000°. $M_0$7.85000×10^{14}
IDC Error ellipse: s-maj=20.7km s-min=18.0km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.9km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(244) Taiwan
ISC V 03 15 52 34.2–.50 23.92N–.02 121.78E–.02 41–4 4.9b,3.8s 472 0-125
NIED V 03 15 52 00 23.90N 121.70E 47 4.6W,3.8s **¶16489813**
BKK V 03 15 52 01.4–2.0 26N–19 125E–19 10 6.7,5.0
MOS V 03 15 52 31.2–1.2 23.98N 121.86E 33 5.2b,5.0
BJI V 03 15 52 33.3 24.05N 121.58E 47 4.9L,4.8b
JMA V 03 15 52 33.2–.10 23.88N 121.69E 39–2 4.7,4.8b
NEIC V 03 15 52 34.3–.43 23.88N 121.76E 43–3 5.0b,4.7W
TAP V 03 15 52 34.4 23.93N 121.71E 41–0 5.2L,4.7W
ISCJB V 03 15 52 34.1–.14 23.92N–.01 121.77E–.01 53–1 4.8b,3.8s
IDC V 03 15 52 36.5–2.7 23.99N 121.89E 65–25 4.6,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ50.00000°,λ-155.00000°. NP2:ϕ_s309.00000°,δ71.00000°,λ-43.00000°. $M_0$1.04000×10^{16}
MOS Error ellipse: s-maj=8.2km s-min=5.1km az=114.5.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=137.0. Felt [II] at Hsinchu and Taipei. Also felt at Taichung, Taoyuan, Xindian, Yilan, Yungho and Zhunan. Recorded [4 TAP] in Hualien and Nantou; [3 TAP] in Taichung and Yilan; [2 TAP] in Changhua, Hsinchu, Miaoli, Taitung, Taoyuan and Yunlin; [1 TAP] in Chiayi and Penghu. Moment Tensor Solution. s20 Moment tensor: Scale 10^{16}Nm; M_{rr}0.26 $M_{\theta\theta}$0.07 $M_{\phi\phi}$-0.34 $M_{r\theta}$-0.41 $M_{\theta\phi}$-0.48 $M_{\phi r}$-1.12 Best double couple: NP1:ϕ_s69.00000°,δ15.00000°,λ141.00000°. NP2:ϕ_s198.00000°,δ81.00000°,λ78.00000°. Principal axes: T 1.1200,Plg53.0000°,Azm94.0000°; N 0.3300,Plg12.0000°,Azm200.0000°; P -1.4600,Plg35.0000°,Azm298.0000° $M_0$1.30000×10^{16}
TAP B.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=146.6.
IDC Error ellipse: s-maj=14.0km s-min=10.6km az=71.0.
(227) Eastern Honshu
JMA V 03 17 55 00.8 37.01N 140.71E 9–1 2.5 ¶603241684
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC V 03 18 40 08.1–1.1 36.32N–.03 140.91E–.05 19–4 3.7b 23 0-75
NIED V 03 18 40 00 36.20N 141.00E 26 3.9W **¶17202704**
JMA V 03 18 40 09.1 36.25N 141.01E 38–1 3.8
IDC V 03 18 40 11.7–2.9 36.24N 141.04E 44–30 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ32.00000°,λ-66.00000°. NP2:ϕ_s183.00000°,δ61.00000°,λ-104.00000°. $M_0$7.04000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=11.8km az=69.0.
(227) Eastern Honshu
ISC V 03 19 15 33.9–.97 38.00N–.03 140.59E–.03 14–7 3.5b 34 0-90
NIED V 03 19 15 00 38.00N 140.60E 8 3.6W **¶600606031**
IDC V 03 19 15 31.6–.79 38.04N 140.65E 0 3.8,3.6
ISCJB V 03 19 15 33.9–.37 37.98N–.02 140.61E–.04 24–3 3.5b,3.6
JMA V 03 19 15 34.3 37.98N 140.56E 10–1 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ22.00000°,λ154.00000°. NP2:ϕ_s346.00000°,δ81.00000°,λ70.00000°. $M_0$3.13000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=16.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.9km az=10.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s344.00000°,δ79.00000°,λ64.00000°. NP2:ϕ_s232.00000°,δ28.00000°,λ155.00000°. Principal axes: T Plg50.0000°,Azm226.0000°; N Plg25.0000°,Azm350.0000°; P Plg29.0000°,Azm95.0000°
(228) Near east coast of eastern Honshu
JMA V 03 20 58 32.4–.10 37.41N 141.28E 34–1 3.5
NIED V 03 20 58 00 37.40N 141.30E 44 3.6W **¶600606080**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ81.00000°,λ-7.00000°. NP2:ϕ_s136.00000°,δ83.00000°,λ-171.00000°. $M_0$2.96000×10^{14}
(460) Wyoming
ISC V 03 21 02 34.7–.68 43.77N–.04 105.16W–.05 0 66 1-90
ISCJB V 03 21 02 34.5–.39 43.73N–.03 105.23W–.04 0 4.0b **¶17202714**
IDC V 03 21 02 35.3–.89 44.17N 105.80W 0 3.9b,3.8
NEIC V 03 21 02 35.9–.52 43.74N 105.20W 0 3.7L,3.8
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=4.0km az=35.3.
IDC Error ellipse: s-maj=24.8km s-min=8.1km az=144.0.
NEIC Event type fm. Error ellipse: s-maj=6.8km s-min=6.4km az=74.0. 66 km [41 miles] SSE of Gillette. Suspected Mining explosion.
(227) Eastern Honshu
ISC V 03 21 28 03.1–.83 36.11N–.04 139.88E–.05 59–7 3.6b 33 0-75
NIED V 03 21 28 00 36.10N 139.80E 47 3.8W **¶17202717**
ISCJB V 03 21 28 01.9–.47 36.11N–.04 139.93E–.06 65–4 3.6b
IDC V 03 21 28 02.4–1.8 36.07N 140.01E 53–16 3.7,3.6L
JMA V 03 21 28 04.0–.10 36.14N 139.85E 50–1 3.6,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ28.00000°,λ167.00000°. NP2:ϕ_s327.00000°,δ84.00000°,λ63.00000°. $M_0$5.61000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.9km az=4.3.
IDC Error ellipse: s-maj=21.9km s-min=9.7km az=76.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s153.00000°,δ89.00000°,λ-77.00000°. NP2:ϕ_s246.00000°,δ13.00000°,λ-178.00000°. Principal axes: T Plg43.0000°,Azm231.0000°; N Plg13.0000°,Azm333.0000°; P Plg44.0000°,Azm76.0000°
(40) California-Nevada border region
ISC V 03 21 41 49.6–1.0 36.38N–.02 117.88W–.02 6–8 3.9b,3.4s 165 0-103
NEIC V 03 21 41 49.8 36.40N 117.87W 2 4.5L,3.4s **¶16491551**
IDC V 03 21 41 49.0–.88 36.35N 117.95W 0 3.9,3.8L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Lone Pine and [II] at Ridgecrest, Springville, Trona and Wasco. Also felt at Bakersfield, Independence, Inyokern, Lindsay, Porterville, Tollhouse and Visalia. After PAS.
IDC Error ellipse: s-maj=16.0km s-min=6.7km az=68.0.
(88) Dominican Republic region
NEIC V 03 21 44 25.9–.60 19.64N 70.65W 10 4.5b,3.9 ¶602607214
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.3km az=0.0. Felt [III] at Santiago. Also felt at Pedro Garcia and Tamboril.
(229) Off east coast of Honshu
ISC V 03 22 01 30.1–1.1 38.34N–.04 142.07E–.07 42–10 4.1b,3.0s 82 1-146
NIED V 03 22 01 00 38.40N 142.00E 50 4.0W,3.0s **¶600606104**
NEIC V 03 22 01 11.6–1.7 37.16N 144.61E 37–13 4.5b,3.0s
ISCJB V 03 22 01 28.7–.62 38.33N–.03 142.09E–.06 46–5 4.1b,3.1s
JMA V 03 22 01 30.4 38.39N 141.98E 47–1 4.2,3.1s
IDC V 03 22 01 30.9–1.4 38.30N 142.02E 52–13 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ19.00000°,λ66.00000°. NP2:ϕ_s207.00000°,δ73.00000°,λ98.00000°. $M_0$1.26000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=18.1km s-min=11.2km az=132.0. Recorded [2 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.1km az=19.8.
JMA Event type fe.
IDC Error ellipse: s-maj=12.4km s-min=8.1km az=109.0.
(228) Near east coast of eastern Honshu
ISC V 04 01 43 35.0–1.5 37.05N–.05 141.3E–.10 44–11 3.8b 20 0-57
NIED V 04 01 43 00 37.10N 141.20E 44 3.6W **¶17202722**
IDC V 04 01 43 33.2–4.2 37.15N 141.59E 36–35 3.7,3.6
ISCJB V 04 01 43 34.7–1.1 37.04N–.05 141.2E–.10 52–6 3.6b,3.0s
JMA V 04 01 43 35.7–.10 37.07N 141.18E 51–1 3.8,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ11.00000°,λ94.00000°. NP2:ϕ_s15.00000°,δ79.00000°,λ89.00000°. $M_0$3.27000×10^{14}
IDC Error ellipse: s-maj=45.6km s-min=22.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=8.2km az=7.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(218) Near east coast of Kamchatka Peninsula
ISC V 04 03 21 42.7–.59 53.14N–.03 159.94E–.04 63–4 4.4b 282 0-144
KRSC V 04 03 21 41.3–.83 53.11N 160.06E 58–9 4.9L **¶16491557**
ISCJB V 04 03 21 42.9–.30 53.15N–.03 159.84E–.05 78–2 4.3b
MOS V 04 03 21 42.4–1.2 53.16N 159.80E 75 4.5b
NEIC V 04 03 21 44.7–.48 53.36N 159.66E 74–4 4.5b
IDC V 04 03 21 46.3–1.0 53.37N 159.60E 87–8 4.2,4.1
ISC Event type fe.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.7km az=41.8.
MOS Event type fe. Error ellipse: s-maj=7.7km s-min=4.3km az=86.7. Felt (II-III) at Viluchinsk, Ribachiy, Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=161.0. Felt [III] at Petropavlovsk-Kamchatskiy.
IDC Error ellipse: s-maj=15.4km s-min=10.4km az=153.0.
(228) Near east coast of eastern Honshu
ISC V 04 03 47 30.0–.68 35.81N–.06 140.52E–.08 50 3.7b 23 0-76
NIED V 04 03 47 00 35.90N 140.60E 53 4.1W **¶16577980**
ISCJB V 04 03 47 28.8–.44 35.80N–.04 140.44E–.08 50 3.8b
JMA V 04 03 47 30.1–.10 35.88N 140.55E 45–1 3.3
IDC V 04 03 47 31.5–2.1 35.84N 140.32E 60–20 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ18.00000°,λ121.00000°. NP2:ϕ_s331.00000°,δ75.00000°,λ80.00000°. $M_0$1.36000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.6km az=165.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ79.00000°,λ76.00000°. NP2:ϕ_s208.00000°,δ17.00000°,λ141.00000°. Principal axes: T Plg54.0000°,Azm229.0000°; N Plg13.0000°,Azm338.0000°; P Plg33.0000°,Azm77.0000°
IDC Error ellipse: s-maj=23.2km s-min=14.5km az=80.0.
(228) Near east coast of eastern Honshu
ISC V 04 04 52 22.9–2.0 36.01N–.08 141.08E–.10 14–13 3.9s,3.5b 14 0-65
NIED V 04 04 52 00 35.90N 141.10E 8 3.7W,3.5b **¶600606336**
IDC V 04 04 52 20.6–1.4 35.89N 141.29E 0 3.5,3.4b
ISCJB V 04 04 52 22.8–1.1 35.94N–.06 141.13E–.09 29–6 3.8s,3.5b
JMA V 04 04 52 22.7–.10 35.95N 141.15E 24–2 3.8,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ39.00000°,λ26.00000°. NP2:ϕ_s134.00000°,δ74.00000°,λ126.00000°. $M_0$3.98000×10^{14}
IDC Error ellipse: s-maj=35.6km s-min=31.7km az=60.0.

ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=8.9km az=153.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 05 41 45.7–.42**	**40.88N–.03**	**141.43E–.03**	**85–3**	**4.9b**	**954**	**0-159**
NIED	V	04 05 41 00	40.80N	141.40E	83	4.7W		¶16491561
BJI	V	04 05 41 34.0	40.66N	141.94E	36	5.1b,5.0b		
NEIC	V	04 05 41 40.5–.12	40.79N	141.27E	35	5.0b,5.0b		
MOS	V	04 05 41 45.0–1.1	40.90N	141.26E	89	4.8b,5.0b		
ISCJB	V	04 05 41 46.0–.20	40.87N–.02	141.26E–.02	97–1	4.8b,5.0b		
JMA	V	04 05 41 46.4–.10	40.85N	141.41E	92–1	4.6,5.0b		
IDC	V	04 05 41 46.6–.55	40.86N	141.30E	94–4	4.9,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ28.00000°,λ124.00000°. NP2:ϕ_s189.00000°,δ67.00000°,λ74.00000°. $M_0$1.23000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.0. Recorded [3 JMA] in Aomori and Iwate.
MOS Error ellipse: s-maj=5.6km s-min=3.9km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=155.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s190.00000°,δ71.00000°,λ58.00000°. NP2:ϕ_s72.00000°,δ37.00000°,λ146.00000°. Principal axes: T Plg53.0000°,Azm61.0000°; N Plg30.0000°,Azm201.0000°; P Plg19.0000°,Azm303.0000°
IDC Error ellipse: s-maj=9.3km s-min=8.2km az=101.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 06 59 27.5–2.7**	**38.74N–.06**	**142.28E–.08**	**13–16**	**3.8b**	**22**	**1-73**
NIED	V	04 06 59 00	38.70N	142.20E	65	3.9W		¶17202732
IDC	V	04 06 59 26.6–2.4	38.91N	142.10E	0	3.7,3.7b		
JMA	V	04 06 59 30.4–.10	38.67N	142.17E	40–2	3.9,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ42.00000°,λ7.00000°. NP2:ϕ_s23.00000°,δ85.00000°,λ132.00000°. $M_0$7.63000×10^{14}
IDC Error ellipse: s-maj=55.8km s-min=26.1km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 07 48 40.4–2.8**	**36.51N–.06**	**141.15E–.08**	**5–15**	**3.7b**	**17**	**0-60**
NIED	V	04 07 48 00	36.50N	141.00E	17	3.5W		¶17202735
IDC	V	04 07 48 39.4–2.0	36.52N	141.17E	0	3.7,3.6b		
ISCJB	V	04 07 48 41.0–1.4	36.47N–.06	141.18E–.08	20–8	3.6b,3.6b		
JMA	V	04 07 48 43.6–.10	36.53N	141.01E	34–1	3.5,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ79.00000°,λ-172.00000°. NP2:ϕ_s218.00000°,δ82.00000°,λ-11.00000°. $M_0$2.24000×10^{14}
IDC Error ellipse: s-maj=45.0km s-min=24.6km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=9.2km az=139.3.
JMA Event type fe.
(229) Off east coast of Honshu

ISC	**V**	**04 08 23 52.0–.30**	**37.05N–.03**	**143.33E–.03**	**29–1**	**5.3b,5.3s**	**1301**	**2-159**
NIED	V	04 08 23 00	37.00N	143.30E	5	5.5W,5.3s		¶16493553
IDC	V	04 08 23 47.2–.38	36.97N	143.33E	0	5.1,5.1s		
ISCJB	V	04 08 23 48.1–.61	37.10N–.02	143.31E–.01	12–3	5.2b,5.2s		
JMA	V	04 08 23 49.4–.20	37.05N	143.35E	44	5.5,5.2s		
BJI	V	04 08 23 50.0	37.17N	143.16E	18	5.7s,5.5		
MOS	V	04 08 23 53.4–1.0	37.44N	143.21E	36	5.4b,5.3s		
GCMT	V	04 08 23 53.1–.10	37.03N	143.38E	12	5.5W,5.3s		
NEIC	V	04 08 23 53.1–.09	37.04N	143.25E	35	5.3b,5.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ41.00000°,λ-82.00000°. NP2:ϕ_s198.00000°,δ50.00000°,λ-97.00000°. $M_0$1.84000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=10.0km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=169.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=103.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c161; s129,c270; Duration: 1±3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.85±.02 $M_{\theta\theta}$0.40±.02; $M_{\phi\phi}$1.46±.02; $M_{r\theta}$-0.06±.05; $M_{\theta\phi}$0.73±.02; $M_{\phi r}$0.10±.05; Best double couple: NP1:ϕ_s204.00000°,δ46.00000°,λ-94.00000°. NP2:ϕ_s30.00000°,δ44.00000°,λ-86.00000°. Principal axes: T 1.8340,Plg1.0000°,Azm297.0000°; N 0.0270,Plg3.0000°,Azm207.0000°; P -1.8560,Plg87.0000°,Azm45.0000° $M_0$1.84500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=151.0. Recorded [1 JMA] in Miyagi.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 08 38 10.4–1.2**	**36.80N–.04**	**140.50E–.05**	**5–9**	**3.6b**	**20**	**0-91**
ISCJB	V	04 08 38 10.2–.79	36.79N–.04	140.61E–.06	13–5	3.5b		¶17202737
JMA	V	04 08 38 10.5	36.80N	140.55E	8–1	3.5		
IDC	V	04 08 38 14.0–5.9	36.68N	140.58E	31–45	3.7,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.5km az=36.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s179.00000°,δ55.00000°,λ-75.00000°. NP2:ϕ_s335.00000°,δ38.00000°,λ-110.00000°. Principal axes: T Plg9.0000°,Azm259.0000°; N Plg12.0000°,Azm351.0000°; P Plg75.0000°,Azm133.0000°
IDC Error ellipse: s-maj=26.2km s-min=21.3km az=121.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 08 47 08.5–.00**	**36.80N–.03**	**140.54E–.04**	**12–6**	**3.8b**	**31**	**0-91**
IDC	V	04 08 47 06.6–.65	36.82N	140.65E	0	3.9,3.7		¶16497633
ISCJB	V	04 08 47 07.7–.58	36.78N–.03	140.66E–.05	19–4	3.6b,3.7		
JMA	V	04 08 47 08.7	36.80N	140.55E	8–1	3.8,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=14.8km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=21.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s178.00000°,δ48.00000°,λ-74.00000°. NP2:ϕ_s335.00000°,δ44.00000°,λ-107.00000°. Principal axes: T Plg2.0000°,Azm257.0000°; N Plg12.0000°,Azm347.0000°; P Plg78.0000°,Azm158.0000°
(228) Near east coast of eastern Honshu

ISC	**V**	**04 11 02 25.2–1.4**	**39.47N–.04**	**142.54E–.05**	**18–5**	**3.6b**	**39**	**1-73**
NIED	V	04 11 02 00	39.40N	142.60E	38	3.7W		¶17202747
JMA	V	04 11 02 26.4–.10	39.43N	142.56E	34–1	4.0		
IDC	V	04 11 02 29.3–1.9	39.41N	142.56E	56–18	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ7.00000°,λ83.00000°. NP2:ϕ_s12.00000°,δ83.00000°,λ91.00000°. $M_0$4.14000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=10.8km az=103.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 11 43 17.3–.38**	**36.30N–.03**	**141.33E–.04**	**27–2**	**4.4b,4.0s**	**165**	**1-147**
NIED	V	04 11 43 00	36.30N	141.20E	38	4.3W,4.0s		¶16497656
MOS	V	04 11 43 16.4–1.4	36.39N	141.38E	33	4.4b,4.0s		
ISCJB	V	04 11 43 16.1–.65	36.30N–.02	141.28E–.04	28–4	4.4b,3.9s		
JMA	V	04 11 43 17.5–.10	36.31N	141.17E	47–2	4.2,3.9s		
NEIC	V	04 11 43 18.9–.21	36.26N	141.19E	35	4.7b,3.9s		
IDC	V	04 11 43 19.0–.43	36.26N	141.19E	36–3	4.3,4.3L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ11.00000°,λ-44.00000°. NP2:ϕ_s332.00000°,δ82.00000°,λ-98.00000°. $M_0$2.83000×10^{15}
MOS Error ellipse: s-maj=9.0km s-min=5.8km az=92.2.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.7km az=12.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=132.0. Recorded [2 JMA] in Ibaraki.
IDC Error ellipse: s-maj=11.4km s-min=9.3km az=98.0.
(277) Jawa

ISC	**V**	**04 12 31 37.3–1.4**	**7.86S–.05**	**107.27E–.04**	**27–13**		**23**	**1-29**
ISCJB	V	04 12 31 37.0–.81	7.88S–.04	107.23E–.04	32–6	4.4b		¶16512051
NEIC	V	04 12 31 38.4–.73	7.83S	107.20E	35	4.4b		
DJA	V	04 12 31 38.6–.50	8S–4.0	107E–2.0	25–4	4.1,4.1		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Pangalengan.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 13 18 49.4–.74**	**38.91N–.04**	**142.03E–.06**	**44–5**	**4.5b,3.9s**	**120**	**0-89**
NIED	V	04 13 18 00	38.90N	141.90E	53	4.3W,3.9s		¶16577983
MOS	V	04 13 18 46.7–1.3	38.89N	142.01E	33	4.6b,3.9s		
ISCJB	V	04 13 18 48.7–.48	38.92N–.03	142.03E–.05	56–3	4.3b,3.9s		
JMA	V	04 13 18 49.9	38.88N	141.99E	49–1	4.2,3.9s		
IDC	V	04 13 18 51.6–2.0	38.88N	141.88E	64–17	4.2,4.0		
NEIC	V	04 13 18 51.2–.61	38.88N	142.00E	62–5	4.7b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ61.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ100.00000°. $M_0$2.76000×10^{15}
MOS Error ellipse: s-maj=7.8km s-min=5.3km az=96.4.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=30.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=12.3km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.9km az=115.0. Recorded [2 JMA] in Iwate and Miyagi.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 15 09 03.1–1.1**	**36.81N–.03**	**140.43E–.03**	**4–7**	**4.1b**	**54**	**0-152**
NIED	V	04 15 09 00	36.80N	140.60E	5	3.9W		¶16497681
ISCJB	V	04 15 09 03.8–.52	36.80N–.03	140.62E–.04	20–3	4.0b,3.5s		
JMA	V	04 15 09 04.2	36.80N	140.55E	7–1	4.1,3.5s		
IDC	V	04 15 09 08.5–2.2	36.80N	140.34E	41–21	4.0,4.0		
NEIC	V	04 15 09 08.3–.82	36.81N	140.45E	42–7	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ31.00000°,λ-117.00000°. NP2:ϕ_s185.00000°,δ63.00000°,λ-75.00000°. $M_0$9.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=30.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ49.00000°,λ-73.00000°. NP2:ϕ_s340.00000°,δ44.00000°,λ-109.00000°. Principal axes: T Plg3.0000°,Azm263.0000°; N Plg13.0000°,Azm354.0000°; P Plg77.0000°,Azm161.0000°
IDC Error ellipse: s-maj=17.5km s-min=14.4km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=7.4km az=121.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 16 29 01.0–1.7**	**37.85N–.04**	**141.93E–.06**	**11–9**	**4.2b,3.6s**	**67**	**1-92**
IDC	V	04 16 28 59.5–.75	37.89N	142.06E	0	3.8,3.8L		¶16497693
NIED	V	04 16 29 00	37.80N	141.90E	32	3.9W,3.8L		
ISCJB	V	04 16 29 01.7–.87	37.82N–.03	141.93E–.05	26–5	4.2b,3.8s		
JMA	V	04 16 29 03.6–.10	37.84N	141.81E	31–2	4.2,3.8s		
NEIC	V	04 16 29 05.3–.81	37.83N	141.94E	46–7	4.5b,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.0km az=112.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ67.00000°,λ179.00000°. NP2:ϕ_s9.00000°,δ89.00000°,λ23.00000°. $M_0$9.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=6.7km az=123.0. Recorded [2 JMA] in Fukushima.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 17 36 13.7–2.1**	**38.21N–.05**	**142.37E–.07**	**15–11**	**3.8b**	**31**	**1-73**
NIED	V	04 17 36 00	38.20N	142.20E	32	3.7W		¶17202773
JMA	V	04 17 36 16.6–.20	38.24N	142.22E	38–2	4.2		
IDC	V	04 17 36 17.5–2.7	38.16N	142.42E	42–23	3.8,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ33.00000°,λ-51.00000°. NP2:ϕ_s36.00000°,δ65.00000°,λ-112.00000°. $M_0$3.35000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=35.6km s-min=26.1km az=123.0.
(227) Eastern Honshu

JMA	**V**	**04 18 22 20.5**	**35.23N**	**138.40E**	**18–1**	**3.6**		**¶16497697**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ74.00000°,λ36.00000°. NP2:ϕ_s261.00000°,δ56.00000°,λ161.00000°. Principal axes: T Plg36.0000°,Azm227.0000°; N Plg51.0000°,Azm23.0000°; P Plg12.0000°,Azm128.0000°
(228) Near east coast of eastern Honshu

ISC	**V**	**04 19 13 47.0–2.0**	**36.58N–.05**	**141.36E–.10**	**27–12**	**3.7b**	**24**	**1-75**
NIED	V	04 19 13 00	36.60N	141.20E	44	3.8W		¶17202785
ISCJB	V	04 19 13 47.1–1.0	36.59N–.04	141.36E–.09	42–9	3.6b,2.8s		
JMA	V	04 19 13 48.4–.10	36.58N	141.22E	46–2	3.7,2.8s		
IDC	V	04 19 13 49.1–2.7	36.57N	141.43E	49–21	3.8,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ9.00000°,λ51.00000°. NP2:ϕ_s350.00000°,δ83.00000°,λ96.00000°. $M_0$5.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.1km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=39.3km s-min=13.6km az=87.0.
(228) Near east coast of eastern Honshu

JMA	**V**	**04 20 53 12.1–.10**	**37.11N**	**141.37E**	**45–1**	**3.5**		
NIED	V	04 20 53 00	37.10N	141.40E	35	3.6W		¶600606797

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ30.00000°,λ135.00000°. NP2:ϕ_s306.00000°,δ69.00000°,λ68.00000°. $M_0$2.72000×10^{14}
(162) South Island

WEL	**V**	**04 20 54 15.6–.07**	**43.53S**	**172.71E**	**7–0**	**4.1L**		
NEIC	V	04 20 54 15.6	43.53S	172.70E	7	4.1L		¶16497703

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type se. After WEL.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 21 13 44.3–.65**	**38.17N–.04**	**141.80E–.07**	**45–4**	**3.9b**	**51**	**0-89**
NIED	V	04 21 13 00	38.20N	141.70E	53	3.8W		¶16577994
ISCJB	V	04 21 13 43.7–.73	38.16N–.04	141.77E–.08	55–5	3.9b		
JMA	V	04 21 13 45.0–.10	38.18N	141.68E	51–1	3.9		
IDC	V	04 21 13 46.9–.70	38.17N	141.76E	68–5	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ17.00000°,λ75.00000°. NP2:ϕ_s24.00000°,δ73.00000°,λ95.00000°. $M_0$6.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=4.6km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.5km az=96.0.
(229) Off east coast of Honshu

ISC	**V**	**04 21 39 07.3–.49**	**37.08N–.04**	**142.28E–.05**	**10**	**4.2b,3.3s**	**85**	**1-146**
NIED	V	04 21 39 00	37.20N	142.40E	14	4.0W,3.3s		¶16577995
JMA	V	04 21 39 03.6–.20	37.10N	142.47E	0	4.3,3.3s		
ISCJB	V	04 21 39 05.4–.32	37.10N–.03	142.49E–.03	10	4.2b,3.3s		
IDC	V	04 21 39 05.6–.56	37.03N	142.34E	0	4.1,4.0L		
NEIC	V	04 21 39 09.2–2.1	37.08N	142.41E	24–15	4.6b,4.0L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ33.00000°,λ-138.00000°. NP2:ϕ_s230.00000°,δ69.00000°,λ-64.00000°. $M_0$1.28000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=162.1.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=6.9km az=106.0. Recorded [1 JMA] in Fukushima.
(228) Near east coast of eastern Honshu

ISC	**V**	**04 21 53 24.6–.77**	**37.71N–.04**	**141.66E–.08**	**57–7**	**3.6b**	**37**	**1-90**
NIED	V	04 21 53 00	37.70N	141.60E	71	3.9W		¶600606834
ISCJB	V	04 21 53 23.1–.75	37.71N–.04	141.68E–.09	61–6	3.7b		
JMA	V	04 21 53 24.4	37.72N	141.60E	56–1	4.0		
IDC	V	04 21 53 25.1–.77	37.70N	141.57E	62–7	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ33.00000°,λ71.00000°. NP2:ϕ_s51.00000°,δ59.00000°,λ102.00000°. $M_0$6.75000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.6km az=19.3.
JMA Event type fe.
IDC Error ellipse: s-maj=19.3km s-min=13.6km az=112.0.
(160) Off east coast of North Island

WEL	**V**	**04 22 14 00.9–.12**	**38.30S**	**178.13E**	**20–1**	**3.9L**		

NEIC V 04 22 14 01.0 38.30S 178.10E 19 4.0L ¶16497710
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Gisborne region, maximum reported intensity MM 3.
NEIC Event type se. After WEL.

(135) Near coast of central Chile

ISC V 04 22 40 40.9–1.4 35.23S–.03 72.47W–.06 28–10 4.7b 48 1-155
ISCJB V 04 22 40 40.5–.51 35.15S–.03 72.75W–.08 33 4.7b ¶16708855
GUC V 04 22 40 41.4–.67 35.19S 72.48W 39–3 4.0L
NEIC V 04 22 40 41.0 35.19S 72.48W 39 4.7b
IDC V 04 22 40 44.2–3.4 35.21S 72.35W 51–30 4.2L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=3.8km az=14.0.
GUC Error ellipse: s-maj=1.5km s-min=3.7km az=-1.0.
NEIC Event type fe. Felt [IV] at Constitucion and Iloca; [III] at Curico, Pencahue, San Javier and Talca; [II] at Linares and Parral. After GUC.
IDC Error ellipse: s-maj=47.8km s-min=23.1km az=83.0.

(259) Mindanao

ISC V 05 03 46 34.8–.70 9.26N–.03 125.51E–.05 53–6 4.4b,4.1s 145 1-146
IDC V 05 03 46 26.5–.51 9.42N 125.91E 0 4.4L,4.2 ¶16497719
MAN V 05 03 46 29 9.26N 125.47E 4 5.4b,4.6s
ISCJB V 05 03 46 32.5–.50 9.22N–.03 125.51E–.04 50–5 4.4b,4.1s
MOS V 05 03 46 34.5–1.9 9.27N 125.41E 66 4.9b,4.1s
GCMT V 05 03 46 38.0–.20 9.30N 125.56E 24–1 5.0W,4.1s
NEIC V 05 03 46 38.0–.98 9.16N 125.61E 92–10 4.5b,4.1s
DJA V 05 03 46 40.9–2.0 9N–14 126E–6.0 43–23 5.3b,5.2
ISC Event type fe.
MAN Event type fe. INTENSITY IV - MAINIT SURIGAO DEL NORTE; BARANGAY LA UNION CABADBARAN AGUSAN DEL NORTE; BUTUAN CITY; INTENSITY III - SURIGAO CITY; GIGAQUIT PLACER MALIMONO SURIGAO DEL NORTE; INTENSITY I - GENERAL LUNA SIARGAO.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c49; s91,c139;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.05±.14 $M_{\theta\theta}$1.00±.09; $M_{\phi\phi}$-1.05±.12; $M_{r\theta}$-1.40±.17; $M_{\theta\phi}$-3.55±.08; $M_{\phi r}$-1.07±.17; Best double couple: NP1:ϕ_s83.00000°,δ81.00000°,λ-159.00000°. NP2:ϕ_s350.00000°,δ69.00000°,λ-9.00000°. Principal axes: T 3.7390,Plg8.0000°,Azm215.0000°; N 0.6390,Plg67.0000°,Azm105.0000° ; P -4.3740,Plg21.0000°,Azm308.0000° $M_0$4.05600×10^{16}
NEIC Event type fe. Felt [IV PIVS] at Butuan, Cabadbaran, La Union and Mainit; [III PIVS] at Gigaquit, Malimono, Placer and Surigao; [I PIVS] at General Luna.

(228) Near east coast of eastern Honshu

ISC V 05 03 54 59.7–1.6 36.88N–.04 141.33E–.09 30–10 3.6b 26 0-57
IDC V 05 03 54 55.9–1.2 37.03N 141.25E 0 3.7,3.6 ¶17202814
ISCJB V 05 03 54 59.4–.86 36.86N–.04 141.33E–.08 46–8 3.6b,3.6
NIED V 05 03 55 00 36.90N 141.20E 47 3.6W,3.6
JMA V 05 03 55 01.3–.10 36.87N 141.16E 48–1 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=19.8km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.0km az=12.8.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ11.00000°,λ143.00000°. NP2:ϕ_s48.00000°,δ83.00000°,λ81.00000°. $M_0$3.20000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC V 05 04 28 54.4–.68 35.88N–.05 140.93E–.09 46–6 3.9b 30 0-148
NIED V 05 04 28 00 35.90N 140.80E 41 4.1W ¶16577999
ISCJB V 05 04 28 52.8–.69 35.89N–.04 141.0E–.10 51–5 3.8b,3.6s
JMA V 05 04 28 54.9–.10 35.90N 140.82E 39–1 3.6,3.6s
IDC V 05 04 28 54.8–.68 35.86N 140.92E 51–6 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ17.00000°,λ144.00000°. NP2:ϕ_s11.00000°,δ80.00000°,λ76.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=6.9km az=174.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=8.6km az=102.0.

(228) Near east coast of eastern Honshu

ISC V 05 05 06 42.5–.54 35.68N–.04 140.77E–.05 43–4 4.2b,3.6s 107 0-148
NIED V 05 05 06 00 35.70N 140.70E 50 4.3W,3.6s ¶600607084
JMA V 05 05 06 41.9–.10 35.69N 140.75E 45–1 3.7,3.6s
NEIC V 05 05 06 41.4–.79 35.64N 140.83E 37–7 4.6b,3.6s
IDC V 05 05 06 41.8–.82 35.66N 140.74E 39–6 4.1,4.0
ISCJB V 05 05 06 41.6–.39 35.68N–.03 140.76E–.05 52–3 4.2b,3.3s
MOS V 05 05 06 42.9–1.3 36.21N 140.70E 33 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ25.00000°,λ11.00000°. NP2:ϕ_s1.00000°,δ85.00000°,λ114.00000°. $M_0$3.08000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.9km az=119.0. Recorded [2 JMA] in Chiba.
IDC Error ellipse: s-maj=16.4km s-min=13.7km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.0km az=177.6.
MOS Error ellipse: s-maj=10.1km s-min=7.3km az=114.0.

(228) Near east coast of eastern Honshu

ISC V 05 08 57 30.0–1.6 39.17N–.05 142.29E–.08 32–10 3.7b 23 0-62
NIED V 05 08 57 00 39.20N 142.40E 32 3.7W ¶17202831
ISCJB V 05 08 57 27.9–1.5 39.17N–.04 142.44E–.10 28–8 3.5b
JMA V 05 08 57 28.8–.10 39.20N 142.40E 35–1 3.9
IDC V 05 08 57 33.2–3.1 39.16N 142.36E 69–30 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ31.00000°,λ-114.00000°. NP2:ϕ_s167.00000°,δ62.00000°,λ-77.00000°. $M_0$3.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.3km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=39.7km s-min=16.4km az=111.0.

(228) Near east coast of eastern Honshu

ISC V 05 09 20 12.6–1.9 39.09N–.04 142.42E–.07 15–10 3.9b 37 1-88
NIED V 05 09 20 00 39.10N 142.50E 32 4.1W ¶17202833
JMA V 05 09 20 13.5–.10 39.14N 142.42E 34–1 4.1
IDC V 05 09 20 16.7–2.0 39.06N 142.39E 52–19 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ30.00000°,λ-135.00000°. NP2:ϕ_s186.00000°,δ70.00000°,λ-68.00000°. $M_0$1.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.7km s-min=11.4km az=108.0.

(162) South Island

WEL V 05 09 24 14.1–.05 43.58S 172.72E 5 3.5L ¶16497730
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC V 05 10 20 48.3–.86 36.82N–.03 140.67E–.04 11–5 4.6b,3.7s 298 0-147
NIED V 05 10 20 00 36.80N 140.70E 5 4.4W,3.7s ¶16497733
IDC V 05 10 20 46.1–.48 36.76N 140.64E 0 4.5,4.4
ISCJB V 05 10 20 47.0–.47 36.84N–.02 140.61E–.02 9–2 4.5b,3.8s
JMA V 05 10 20 47.4 36.85N 140.58E 8–1 4.5,3.8s
NEIC V 05 10 20 50.6–1.2 36.79N 140.58E 25–8 4.7b,3.8s
MOS V 05 10 20 51.0–1.1 37.00N 140.54E 33 4.7b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ19.00000°,λ-128.00000°. NP2:ϕ_s199.00000°,δ75.00000°,λ-78.00000°. $M_0$4.04000×10^{15}
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=144.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ65.00000°,λ-72.00000°. NP2:ϕ_s343.00000°,δ31.00000°,λ-124.00000°. Principal axes: T Plg18.0000°,Azm278.0000°; N Plg17.0000°,Azm14.0000°; P Plg65.0000° ,Azm143.0000°
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=143.0. Recorded [3 JMA] in Fukushima and Ibaraki.
MOS Error ellipse: s-maj=7.5km s-min=5.2km az=89.4.

(228) Near east coast of eastern Honshu

ISC V 05 11 02 10.5–1.1 36.94N–.04 141.28E–.07 41–10 3.8b 37 0-90
NIED V 05 11 02 00 37.00N 141.10E 50 3.9W ¶17202841
ISCJB V 05 11 02 09.2–.72 36.96N–.04 141.30E–.07 50–5 3.7b
JMA V 05 11 02 11.7–.10 36.96N 141.07E 51–1 3.9
IDC V 05 11 02 14.0–2.0 36.90N 141.12E 77–20 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ11.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ79.00000°,λ93.00000°. $M_0$6.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.6km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=11.1km az=71.0.

(228) Near east coast of eastern Honshu

ISC V 05 13 23 39.4–1.2 38.88N–.05 142.01E–.09 49–9 3.7b 32 0-73
NIED V 05 13 23 00 38.90N 142.00E 47 3.8W ¶17202851
ISCJB V 05 13 23 38.3–.83 38.88N–.04 142.02E–.10 57–6 3.9s,3.7b
JMA V 05 13 23 39.4–.10 38.88N 141.99E 50–1 3.9,3.7b
IDC V 05 13 23 40.8–2.3 38.89N 142.00E 66–20 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ30.00000°,λ50.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ110.00000°. $M_0$5.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.2km az=15.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=13.9km az=106.0.

(58) Near coast of Guerrero

ISC V 05 13 24 07.6–.42 16.70N–.03 98.80W–.02 32–2 5.4s,5.3b 1203 1-167
IDC V 05 13 24 02.9–.50 16.70N 98.76W 0 5.3,5.3s ¶16497740
BJI V 05 13 24 05.3 16.80N 98.60W 24 5.7s,5.6b
NEIC V 05 13 24 06.0–.00 16.81N 98.59W 20 5.7s,5.6b
GCMT V 05 13 24 07.8–.10 16.85N 98.72W 31–0 5.7W,5.6b
MOS V 05 13 24 07.3–1.0 16.81N 98.53W 33 5.5b,5.3s
NEIC V 05 13 24 07.8–.19 16.78N 98.62W 24 5.7W,5.5
MEX V 05 13 24 07.6–.49 16.61N 98.91W 12–4 5.5,5.5
ISCJB V 05 13 24 08.6–.64 16.96N–.02 98.51W–.02 33–4 5.4s,5.3b
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40 $M_{\theta\theta}$-1.60 $M_{\phi\phi}$0.20 $M_{r\theta}$-3.30 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s303.00000° ,δ82.00000°,λ102.00000°. NP2:ϕ_s63.00000°,δ14.00000°,λ31.00000°. Principal axes: T 4.8000,Plg50.0000°,Azm226.0000°; N -0.7000,Plg12.0000°,Azm121.0000° ; P -4.1000,Plg36.0000°,Azm22.0000° $M_0$4.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s111,c197; s120,c284;Duration: 1ⁱ7 Moment tensor: Scale 10^{17} Nm; M_{rr}0.73±.03 $M_{\theta\theta}$-1.32±.03; $M_{\phi\phi}$0.59±.03; $M_{r\theta}$-3.62±.11; $M_{\theta\phi}$-0.08±.03; $M_{\phi r}$2.44±.09; Best double couple: NP1:ϕ_s303.00000°,δ85.00000°,λ102.00000°. NP2:ϕ_s54.00000° ,δ12.00000°,λ22.00000°. Principal axes: T 4.5380,Plg48.0000°,Azm225.0000° ; N -0.0480,Plg12.0000°,Azm122.0000°; P -4.4890,Plg39.0000°,Azm22.0000° $M_0$4.51400×10^{17}
NEIC Event type fe. Felt [III] at Mexico and Puebla and [II] at Oaxaca and Toluca. Felt in much of southern Mexico. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17} Nm; M_{rr}0.14 $M_{\theta\theta}$-0.24 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.77 $M_{\theta\phi}$-0.89 $M_{\phi r}$1.40 Best double couple: NP1: ϕ_s20.00000°,δ14.00000°,λ-12.00000°. NP2:ϕ_s122.00000°,δ87.00000°,λ-103.00000°. Principal axes: T 2.7400,Plg41.0000°,Azm224.0000°; N -0.8600,Plg13.0000°,Azm122.0000° ; P -1.8900,Plg46.0000°,Azm18.0000° $M_0$2.40000×10^{17}
ISCJB Event type fe.

(12) Alaska Peninsula

ISC V 05 14 13 01.2–.24 55.08N–.03 160.56W–.02 41–1 6.0b,5.2s 2321 0-164
MOS V 05 14 12 55.5–.88 55.15N 160.63W 10 6.2b,5.3s ¶16497743
BJI V 05 14 12 58.6 55.11N 160.84W 35 5.9b,5.7b
GCMT V 05 14 13 01.6–.10 54.86N 160.22W 55–0 5.7W,5.7b
ISCJB V 05 14 13 01.6–.21 55.09N–.01 160.47W–.01 57–1 6.0b,5.2s
IDC V 05 14 13 01.9–1.3 55.12N 160.55W 44–11 5.6,5.5
NEIC V 05 14 13 01.6–.10 55.09N 160.54W 39 5.9b,5.8
NEIC V 05 14 13 01.0–.00 55.12N 160.57W 39 5.9b,5.8
ISC Event type fe.
MOS Error ellipse: s-maj=6.2km s-min=3.7km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c265; s134,c337;Duration: 1ⁱ8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95±.05 $M_{\theta\theta}$-3.21±.04; $M_{\phi\phi}$-0.73±.04; $M_{r\theta}$2.20±.04; $M_{\theta\phi}$-1.68±.03; $M_{\phi r}$1.06±.03; Best double couple: NP1:ϕ_s64.00000° ,δ61.00000°,λ91.00000°. NP2:ϕ_s243.00000°,δ29.00000°,λ89.00000°. Principal axes: T 4.6360,Plg74.0000°,Azm335.0000°; N 0.1140,Plg1.0000°,Azm243.0000° ; P -4.7450,Plg16.0000°,Azm153.0000° $M_0$4.69000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.4km az=7.9.
IDC Error ellipse: s-maj=13.1km s-min=7.7km az=15.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=174.0. Felt [V] at Sand Point. Also felt at Cold Bay and King Cove. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}2.92 $M_{\theta\theta}$-3.07 $M_{\phi\phi}$0.15 $M_{r\theta}$1.83 $M_{\theta\phi}$-1.87 $M_{\phi r}$1.21 Best double couple: NP1:ϕ_s254.00000°,δ29.00000°,λ104.00000°. NP2:ϕ_s59.00000° ,δ62.00000°,λ82.00000°. Principal axes: T 3.5900,Plg72.0000°,Azm311.0000° ; N 0.9700,Plg7.0000°,Azm62.0000°; P -4.5500,Plg16.0000°,Azm154.0000° $M_0$4.20000×10^{17}
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}3.22 $M_{\theta\theta}$-2.13 $M_{\phi\phi}$-1.08 $M_{r\theta}$2.48 $M_{\theta\phi}$-0.32 $M_{\phi r}$1.81 Best double couple: NP1:ϕ_s59.00000° ,δ69.00000°,λ84.00000°. NP2:ϕ_s254.00000°,δ21.00000°,λ104.00000°. Principal axes: T 4.6400,Plg65.0000°,Azm319.0000°; N -1.1000,Plg5.0000°,Azm61.0000° ; P -3.5400,Plg24.0000°,Azm153.0000° $M_0$4.20000×10^{17}

(228) Near east coast of eastern Honshu

ISC V 05 14 33 10.2–1.6 37.11N–.05 141.43E–.07 19–5 3.6b 19 1-57
ISCJB V 05 14 33 09.8–1.5 37.17N–.06 141.48E–.10 24–8 3.9s,3.5b ¶17202855
IDC V 05 14 33 13.1–2.2 37.01N 141.55E 49–21 4.0,4.0s
JMA V 05 14 33 14.2–.10 37.18N 141.12E 33–1 3.9,4.0s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=8.1km az=25.9.
IDC Error ellipse: s-maj=27.5km s-min=19.5km az=92.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC V 05 14 58 19.8–.39 38.20N–.03 144.15E–.03 20–1 6.1b,5.8s 2189 2-164
NIED V 05 14 58 00 38.20N 144.10E 8 6.0W,5.8s ¶16497745
ISCJB V 05 14 58 16.4–.49 38.18N–.01 144.08E–.01 6–3 6.0b,5.8s
IDC V 05 14 58 16.6–.28 38.16N 144.22E 0 5.7,5.7
BJI V 05 14 58 17.9 38.20N 144.00E 20 6.3s,6.2
NEIC V 05 14 58 18.7–.09 38.17N 144.03E 11 6.2b,6.1W
GCMT V 05 14 58 18.7–.10 38.24N 144.17E 14–0 6.1W,6.1W
MOS V 05 14 58 19.6–.98 38.23N 144.12E 33 6.0b,5.8s
JMA V 05 14 58 19.1–.20 38.21N 144.12E 42 6.1,5.8s
NEIC V 05 14 58 21.0–.00 37.97N 144.44E 24 6.1,5.8s
NEIC V 05 14 58 41.0–.00 38.69N 143.95E 13 6.1,5.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ48.00000°,λ-122.00000°. NP2:ϕ_s41.00000°,δ51.00000°,λ-60.00000°. $M_0$1.09000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=162.0.
IDC Error ellipse: s-maj=9.6km s-min=7.5km az=87.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=149.0. Recorded [3 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s18 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.45 $M_{\theta\theta}$-0.64 $M_{\phi\phi}$2.09 $M_{r\theta}$0.13 $M_{\theta\phi}$0.55 $M_{\phi r}$-0.04 Best double couple: NP1:ϕ_s201.00000° ,δ46.00000°,λ-75.00000°. NP2:ϕ_s1.00000°,δ46.00000°,λ-105.00000°. Principal axes: T 2.2000,Plg0.0000°,Azm101.0000°; N -0.7200,Plg10.0000°,Azm11.0000° ; P -1.4800,Plg80.0000°,Azm192.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s20.00000°,δ25.00000°,λ-90.00000°. NP2: ϕ_s200.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm290.0000° ; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm110.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c273; s131,c431;Duration: 2ⁱ6 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.12±.01 $M_{\theta\theta}$-0.39±.01; $M_{\phi\phi}$1.51±.01; $M_{r\theta}$0.11±.02; $M_{\theta\phi}$0.84±.01; $M_{\phi r}$0.37±.02; Best double couple: NP1:ϕ_s197.00000°,δ52.00000°,λ-95.00000°. NP2:ϕ_s25.00000° ,δ38.00000°,λ-84.00000°. Principal axes: T 1.8770,Plg7.0000°,Azm291.0000° ; N -0.7030,Plg4.0000°,Azm200.0000°; P -1.1710,Plg82.0000°,Azm84.0000° $M_0$1.52400×10^{18}
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.07 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$1.19 $M_{r\theta}$-0.08 $M_{\theta\phi}$0.20 $M_{\phi r}$0.77 Best double couple: NP1:ϕ_s180.00000° ,δ62.00000°,λ-99.00000°. NP2:ϕ_s18.00000°,δ29.00000°,λ-73.00000°. Principal axes:

T 1.4400,Plg16.0000°,Azm276.0000°; N -0.1200,Plg7.0000°,Azm183.0000°
; P -1.3200,Plg71.0000°,Azm69.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Moment Tensor Solution. s78 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.41 $M_{\theta\theta}$-0.26 $M_{\phi\phi}$1.67 $M_{r\theta}$0.27 $M_{\theta\phi}$0.83 $M_{\phi r}$-1.01 Best double couple: NP1:ϕ_s225.00000° ,δ37.00000°,λ-50.00000°. NP2:ϕ_s359.00000°,δ62.00000°,λ-116.00000°. Principal axes: T 2.1800,Plg14.0000°,Azm107.0000°; N -0.3000,Plg23.0000°,Azm11.0000° ; P -1.8800,Plg63.0000°,Azm226.0000° $M_0$2.00000×10^{18}

(274) Southern Sumatera

ISC	**V**	**05 15 20 57.6–.75**	**4.37S–.09**	**102.07E–.09**	**37**	**4.2b**	**52**	**1-145**
IDC	V	05 15 20 52.3–1.1	4.25S	102.16E	0	4.2,4.2		¶16708925
ISCJB	V	05 15 20 55.3–.49	4.44S–.06	101.98E–.05	37	4.2b,4.2		
NEIC	V	05 15 20 58.0–.44	4.25S	102.16E	35	4.3b,4.2		
DJA	V	05 15 21 00.2–.60	4S–5.0	102E–5.0	30–5	4.2,4.2b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bengkulu.

(228) Near east coast of eastern Honshu

ISC	**V**	**05 15 48 21.4–2.9**	**38.24N–.05**	**142.22E–.09**	**16–16**	**3.6b**	**22**	**1-62**
ISCJB	V	05 15 48 21.8–1.5	38.32N–.05	142.28E–.08	29–8	3.4b		¶17202863
JMA	V	05 15 48 23.7–.20	38.36N	142.19E	31–2	3.9		
IDC	V	05 15 48 26.2–3.0	38.39N	142.45E	57–29	3.4,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=6.9km az=26.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=39.1km s-min=18.1km az=93.0.

(12) Alaska Peninsula

ISC	**V**	**05 16 57 37.1–.20**	**55.04N–.03**	**160.49W–.02**	**43–1**	**6.0b,5.4s**	**2710**	**0-163**
MOS	V	05 16 57 31.4–.93	55.08N	160.62W	10	6.3b,5.4s		¶602607233
BJI	V	05 16 57 34.1	55.10N	160.40W	48	6.1b,5.9b		
GCMT	V	05 16 57 36.6–.10	54.79N	160.34W	56–0	5.8W,5.9b		
NEIC	V	05 16 57 36.6–.11	55.02N	160.69W	36	6.1b,5.8L		
IDC	V	05 16 57 37.5–.34	55.05N	160.58W	40–2	5.8,5.6b		
ISCJB	V	05 16 57 37.4–.21	55.03N–.01	160.46W–.01	53–1	6.0b,5.4s		
NEIC	V	05 16 57 38.0–.00	55.14N	160.62W	46	6.0b,5.4s		

ISC Event type se.
MOS Error ellipse: s-maj=6.2km s-min=3.4km az=88.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c262; s137,c350;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}5.75±.07 $M_{\theta\theta}$-5.53±.07; $M_{\phi\phi}$-0.22±.06; $M_{r\theta}$3.27±.07; $M_{\theta\phi}$-2.80±.05; $M_{\phi r}$2.10±.06; Best double couple: NP1:ϕ_s61.00000° ,δ61.00000°,λ84.00000°. NP2:ϕ_s254.00000°,δ30.00000°,λ101.00000°. Principal axes: T 6.8970,Plg73.0000°,Azm316.0000°; N 0.9220,Plg5.0000°,Azm64.0000° ; P -7.8210,Plg16.0000°,Azm156.0000° $M_0$7.35900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=178.0. Items knocked from shelves [V] at Sand Point. Felt [III] at King Cove. Also felt at Cold Bay, False Pass and Perryville. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{17} Nm; M_{rr}5.31 $M_{\theta\theta}$-4.91 $M_{\phi\phi}$-0.40 $M_{r\theta}$2.74 $M_{\theta\phi}$-3.36 $M_{\phi r}$1.25 Best double couple: NP1: ϕ_s239.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_s64.00000°,δ58.00000°,λ93.00000°. Principal axes: T 6.0300,Plg77.0000°,Azm342.0000°; N 1.3900,Plg2.0000°,Azm243.0000° ; P -7.4100,Plg13.0000°,Azm152.0000° $M_0$6.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s240.00000°,δ25.00000°,λ90.00000°. NP2: ϕ_s60.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm330.0000° ; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm150.0000°
IDC Error ellipse: s-maj=11.1km s-min=6.7km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.4km az=10.1.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}4.82 $M_{\theta\theta}$-3.45 $M_{\phi\phi}$-1.37 $M_{r\theta}$3.57 $M_{\theta\phi}$0.15 $M_{\phi r}$2.88 Best double couple: NP1:ϕ_s64.00000° ,δ69.00000°,λ78.00000°. NP2:ϕ_s274.00000°,δ24.00000°,λ118.00000°. Principal axes: T 7.0600,Plg63.0000°,Azm314.0000°; N -2.0300,Plg10.0000°,Azm67.0000° ; P -5.0300,Plg23.0000°,Azm162.0000° $M_0$6.30000×10^{17}

(227) Eastern Honshu

ISC	**V**	**05 17 04 28.9–.53**	**37.09N–.03**	**140.88E–.03**	**12–2**	**5.4s,5.2b**	**445**	**0-151**
NIED	V	05 17 04 00	37.10N	140.90E	5	4.9W,5.2b		¶16497759
BJI	V	05 17 04 26.8	37.07N	140.92E	15	5.3b,5.0b		
IDC	V	05 17 04 26.6–.43	37.06N	140.86E	0	5.0,5.0b		
ISCJB	V	05 17 04 27.2–.40	37.11N–.02	140.81E–.02	7–2	5.2s,5.1b		
JMA	V	05 17 04 27.3	37.10N	140.81E	6–1	5.2,5.1b		
NEIC	V	05 17 04 29.5–2.1	37.07N	140.75E	15–13	5.2b,5.1b		
MOS	V	05 17 04 32.8–1.1	37.36N	140.67E	37	5.4b,5.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ28.00000°,λ-84.00000°. NP2:ϕ_s242.00000°,δ62.00000°,λ-93.00000°. $M_0$2.76000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.7km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=154.2.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s241.00000° ,δ64.00000°,λ-98.00000°. NP2:ϕ_s79.00000°,δ28.00000°,λ-73.00000°. Principal axes: T Plg18.0000°,Azm337.0000°; N Plg8.0000°,Azm245.0000°; P Plg70.0000°,Azm133.0000°
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.3km az=140.0. Recorded [5L JMA] in Fukushima.
MOS Error ellipse: s-maj=9.9km s-min=5.5km az=99.8.

(227) Eastern Honshu

JMA	**V**	**05 17 35 24.2**	**37.10N**	**140.80E**	**6–1**	**3.0**		**¶600607410**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**05 18 06 48.4–.95**	**36.72N–.03**	**140.60E–.05**	**9–7**	**3.8b**	**23**	**0-60**
IDC	V	05 18 06 46.9–1.4	36.76N	140.67E	0	3.7,3.7		¶16497761
ISCJB	V	05 18 06 47.2–.80	36.68N–.03	140.74E–.06	12–4	3.5b,3.7		
JMA	V	05 18 06 48.4	36.72N	140.61E	7–1	3.5,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.6km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.7km az=21.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s337.00000°,δ60.00000°,λ-80.00000°. NP2:ϕ_s138.00000°,δ32.00000°,λ-107.00000°. Principal axes: T Plg14.0000°,Azm60.0000°; N Plg9.0000°,Azm152.0000°; P Plg73.0000° ,Azm273.0000°

(227) Eastern Honshu

ISC	**V**	**05 18 32 07.3–1.0**	**37.73N–.04**	**139.93E–.03**	**12–8**	**3.4b**	**28**	**0-64**
IDC	V	05 18 32 05.2–.96	37.76N	139.93E	0	4.2s,4.2		¶16497763
ISCJB	V	05 18 32 07.2–.63	37.72N–.03	139.96E–.04	14–5	4.2s,3.4b		
JMA	V	05 18 32 07.5	37.73N	139.93E	8–1	3.4,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=17.8km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=141.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s22.00000°,δ48.00000°,λ73.00000°. NP2:ϕ_s227.00000°,δ44.00000°,λ108.00000°. Principal axes: T Plg77.0000°,Azm223.0000°; N Plg13.0000°,Azm34.0000°; P Plg2.0000° ,Azm124.0000°

(249) Luzon

ISC	**V**	**05 19 58 15.0–1.1**	**18.01N–.05**	**120.23E–.07**	**50–11**	**3.7b**	**26**	**0-89**
IDC	V	05 19 58 07.0–.82	17.76N	120.34E	0	3.8,3.7b		¶16578007
MAN	V	05 19 58 13	18.02N	120.15E	24	4.8b,3.8s		
ISCJB	V	05 19 58 14.2–.70	18.02N–.04	120.19E–.07	52–8	3.6b,3.6s		

ISC Event type fe.
MAN Event type fe. INTENSITY II - LAOAG CITY PASUQUIN ILOCOS NORTE.
ISCJB Event type fe.

(12) Alaska Peninsula

ISC	**V**	**05 20 08 52.0–1.2**	**55.0N–.10**	**160.28W–.07**	**51–10**	**3.9b**	**74**	**0-84**
IDC	V	05 20 08 44.0–1.5	54.88N	160.76W	0	3.9,3.7		¶16708958
ISCJB	V	05 20 08 51.4–.59	54.98N–.07	160.28W–.08	65–6	3.8b,3.7		
NEIC	V	05 20 08 51.4	54.90N	160.32W	25	3.7L,3.7		

ISC Event type fe.
IDC Error ellipse: s-maj=31.3km s-min=21.6km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=3.3km az=150.8.
NEIC Event type fe. Felt at Sand Point. After AEIC.

(228) Near east coast of eastern Honshu

ISC	**V**	**05 21 55 24.4–1.5**	**37.39N–.04**	**141.34E–.07**	**24–11**	**3.6b**	**27**	**0-57**
NIED	V	05 21 55 00	37.40N	141.30E	47	3.8W		¶17202879
IDC	V	05 21 55 21.1–1.2	37.43N	141.36E	0	3.6,3.6		
ISCJB	V	05 21 55 24.2–.88	37.36N–.03	141.41E–.08	38–9	3.5b,3.6		
JMA	V	05 21 55 25.9–.10	37.40N	141.29E	34–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ31.00000°,λ-108.00000°. NP2:ϕ_s196.00000°,δ61.00000°,λ-80.00000°. $M_0$6.02000×10^{14}
IDC Error ellipse: s-maj=26.3km s-min=20.0km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.4km az=12.7.
JMA Event type fe.

(227) Eastern Honshu

ISC	**V**	**05 22 36 56.7–1.1**	**37.04N–.03**	**140.44E–.04**	**6–7**	**3.9b**	**53**	**0-147**
NIED	V	05 22 36 00	37.00N	140.50E	5	3.9W		¶16497769
IDC	V	05 22 36 55.7–.60	37.02N	140.42E	0	4.0,3.9L		
ISCJB	V	05 22 36 57.0–.43	37.03N–.03	140.54E–.03	20–3	3.9b,3.9L		
JMA	V	05 22 36 57.1	37.02N	140.51E	6–1	4.0,3.9L		
NEIC	V	05 22 37 01.6–.90	37.05N	140.35E	39–7	4.3b,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s299.00000°,δ35.00000°,λ-98.00000°. NP2:ϕ_s128.00000°,δ55.00000°,λ-85.00000°. $M_0$7.30000×10^{14}
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=135.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s120.00000°,δ48.00000°,λ-90.00000°. NP2:ϕ_s300.00000°,δ42.00000°,λ-90.00000°. Principal axes: T Plg3.0000°,Azm210.0000°; N Plg0.0000°,Azm120.0000°; P Plg87.0000° ,Azm30.0000°
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=136.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**V**	**05 22 46 49.1–1.4**	**36.56N–.03**	**141.87E–.04**	**15–8**	**4.6b,3.5s**	**210**	**1-147**
NIED	V	05 22 46 00	36.60N	141.80E	26	4.3W,3.5s		¶16501727
IDC	V	05 22 46 47.1–.52	36.53N	141.68E	0	4.3,4.3		
ISCJB	V	05 22 46 48.2–.88	36.52N–.02	141.94E–.03	23–5	4.5b,3.6s		
JMA	V	05 22 46 50.6–.20	36.57N	141.82E	44	4.1,3.6s		
NEIC	V	05 22 46 52.0–.53	36.55N	141.83E	37–4	4.8b,3.6s		
MOS	V	05 22 46 52.4–.85	36.88N	141.59E	33	4.7b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ31.00000°,λ-70.00000°. NP2:ϕ_s342.00000°,δ62.00000°,λ-101.00000°. $M_0$3.18000×10^{15}
IDC Error ellipse: s-maj=15.9km s-min=11.3km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.8km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=111.0. Recorded [2 JMA] in Fukushima and Ibaraki.
MOS Error ellipse: s-maj=11.4km s-min=6.3km az=112.2.

(229) Off east coast of Honshu

ISC	**V**	**05 23 09 11.0–.46**	**37.23N–.06**	**142.55E–.05**	**9**	**4.5b,4.1s**	**131**	**1-146**
NIED	V	05 23 09 00	37.30N	142.50E	8	4.3W,4.1s		¶16501728
JMA	V	05 23 09 06.5–.10	37.34N	142.56E	0	4.6,4.1s		
IDC	V	05 23 09 08.8–.51	37.27N	142.55E	0	4.3,4.3		
ISCJB	V	05 23 09 09.1–.21	37.29N–.03	142.52E–.02	9	4.5b,4.3s		
NEIC	V	05 23 09 10.7–1.9	37.26N	142.56E	10–11	4.7b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ34.00000°,λ-105.00000°. NP2:ϕ_s215.00000°,δ57.00000°,λ-80.00000°. $M_0$3.37000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=11.4km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=166.5.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.7km az=137.0. Recorded [1 JMA] in Miyagi.

(238) Ryukyu Islands

ISC	**V**	**05 23 21 23.8–.39**	**26.16N–.02**	**128.62E–.02**	**25–2**	**5.5b,5.0s**	**1270**	**1-176**
NIED	V	05 23 21 00	26.00N	128.80E	14	5.3W,5.0s		¶16499286
BJI	V	05 23 21 19.1	26.06N	128.65E	19	5.6s,5.5		
GCMT	V	05 23 21 22.1–.10	25.99N	128.51E	18–0	5.3W,5.5		
NEIC	V	05 23 21 22.0–.00	25.93N	128.42E	15	5.3W,5.5		
JMA	V	05 23 21 22.4–.30	26.08N	128.67E	35	5.6,5.5		
NEIC	V	05 23 21 22.1–.10	26.12N	128.40E	10	5.6b,5.5W		
IDC	V	05 23 21 22.6–2.8	26.16N	128.51E	17–16	5.3,5.2b		
ISCJB	V	05 23 21 23.5–.09	26.16N–.02	128.47E–.02	28	5.5b,5.0s		
MOS	V	05 23 21 24.1–1.2	26.22N	128.48E	33	5.8b,5.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ33.00000°,λ76.00000°. NP2:ϕ_s50.00000°,δ58.00000°,λ99.00000°. $M_0$9.83000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s80,c144; s105,c226;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86±.02 $M_{\theta\theta}$-0.41±.01; $M_{\phi\phi}$-0.45±.01; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$-0.43±.01; $M_{\phi r}$0.52±.03; Best double couple: NP1:ϕ_s46.00000° ,δ66.00000°,λ92.00000°. NP2:ϕ_s221.00000°,δ24.00000°,λ85.00000°. Principal axes: T 1.1530,Plg69.0000°,Azm320.0000°; N -0.0020,Plg2.0000°,Azm225.0000° ; P -1.1510,Plg21.0000°,Azm134.0000° $M_0$1.15200×10^{17}
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$-0.40 $M_{\phi\phi}$-0.10 $M_{r\theta}$1.60 $M_{\theta\phi}$-0.70 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s41.00000° ,δ81.00000°,λ85.00000°. NP2:ϕ_s248.00000°,δ9.00000°,λ117.00000°. Principal axes: T 2.2000,Plg53.0000°,Azm306.0000°; N 0.4000,Plg4.0000°,Azm42.0000° ; P -2.6000,Plg36.0000°,Azm135.0000° $M_0$2.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=129.0. Felt [II] at Chatan, Ginowan, Gushikawa, Ishikawa, Okinawa and Yomitan. Also felt at Naha and Nishihara. Recorded [2 JMA] on Okinawa. Moment Tensor Solution. Best double couple: NP1: ϕ_s206.00000°,δ26.00000°,λ104.00000°. NP2:ϕ_s10.00000°,δ65.00000°,λ83.00000°. Principal axes: T 1.2400,Plg70.0000°,Azm265.0000°; N -0.2600,Plg6.0000°,Azm13.0000° ; P -0.9700,Plg19.0000°,Azm105.0000°
IDC Error ellipse: s-maj=12.9km s-min=8.3km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=139.7.
MOS Error ellipse: s-maj=6.5km s-min=3.7km az=104.8.

(228) Near east coast of eastern Honshu

JMA	**V**	**06 00 15 04.8–.10**	**35.49N**	**140.96E**	**24–1**	**3.5**		**¶600607592**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(13) Kodiak Island region

ISC	**V**	**06 01 48 08.6–.47**	**58.15N–.04**	**152.51W–.04**	**35–4**	**4.3b**	**157**	**0-71**
ISCJB	V	06 01 48 07.5–.32	58.15N–.03	152.47W–.04	38–4	4.2b		¶16497776
NEIC	V	06 01 48 09.1	58.09N	152.55W	44	4.4b,3.8L		
IDC	V	06 01 48 09.2–1.3	58.39N	152.89W	47–8	3.6,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=155.9.
NEIC Event type fe. Felt [III] at Kodiak. After AEIC.
IDC Error ellipse: s-maj=22.7km s-min=19.1km az=46.0.

(159) North Island

ISC	**V**	**06 03 59 31.3–.62**	**38.40S–.04**	**175.95E–.04**	**173–5**	**4.6b**	**201**	**0-154**
IDC	V	06 03 59 29.5–.78	37.74S	176.52E	174–6	4.2,3.9		¶16497782
ISCJB	V	06 03 59 30.3–.24	38.31S–.02	175.94E–.04	177–2	4.6b,3.9		
NEIC	V	06 03 59 30.9	38.17S	176.04E	174	4.3b,3.9		
WEL	V	06 03 59 31.3–.27	38.18S	176.05E	171–2	5.2L,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=19.9km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=19.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=1.1km az=90.0. Felt from Bay of Plenty to Nelson, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA	**V**	**06 04 22 51.6–.10**	**38.61N**	**142.07E**	**35–1**	**3.6**		
NIED	V	06 04 22 00	38.60N	142.10E	68	3.9W		¶600607742

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ20.00000°,λ61.00000°. NP2:ϕ_s173.00000°,δ73.00000°,λ100.00000°. $M_0$7.50000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**06 05 14 56.9–.46**	**39.03N–.03**	**142.28E–.04**	**41–3**	**4.8b,4.2s**	**463**	**0-147**
NIED	V	06 05 14 00	39.10N	142.20E	47	4.7W,4.2s		¶16497786
JMA	V	06 05 14 56.9–.10	39.08N	142.23E	44–1	4.7,4.2s		
ISCJB	V	06 05 14 57.3–.34	39.09N–.02	142.12E–.03	53–2	4.8b,4.1s		
MOS	V	06 05 14 58.1–.97	39.16N	142.10E	59	5.1b,4.1s		
NEIC	V	06 05 14 59.8–.41	39.09N	142.08E	59–3	4.8b,4.1s		

IDC V 06 05 14 59.2–1.7 39.03N 142.12E 60–15 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ21.00000°,λ28.00000°. NP2:ϕ_s46.00000°,δ80.00000°,λ108.00000°. $M_0$1.32000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=139.0.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=142.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.9km s-min=10.6km az=91.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**06 06 29 05.9–1.9**	**37.91N–.05**	**141.95E–.09**	**31–13**	**3.5b**	**24**	**1-89**
NIED	V	06 06 29 00	37.90N	141.90E	35	3.8W		**¶17202906**
JMA	V	06 06 29 06.9–.10	37.91N	141.94E	38–2	3.8		
IDC	V	06 06 29 09.8–4.6	37.99N	141.78E	68–44	3.5,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ21.00000°,λ159.00000°. NP2:ϕ_s335.00000°,δ82.00000°,λ70.00000°. $M_0$6.21000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=39.2km s-min=19.7km az=104.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**06 06 43 53.3–1.4**	**38.36N–.06**	**142.13E–.10**	**22–8**	**3.6b**	**23**	**1-62**
NIED	V	06 06 43 00	38.40N	142.20E	35	3.8W		**¶17202907**
ISCJB	V	06 06 43 54.0–1.2	38.38N–.05	142.2E–.10	42–10	3.6b		
JMA	V	06 06 43 53.9–.10	38.41N	142.20E	36–1	4.2		
IDC	V	06 06 43 58.1–3.6	38.43N	142.16E	63–26	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ31.00000°,λ-157.00000°. NP2:ϕ_s253.00000°,δ79.00000°,λ-61.00000°. $M_0$5.55000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.9km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=47.9km s-min=23.9km az=146.0.

(265) Minahassa Peninsula, Sulawesi

ISC	**V**	**06 06 46 25.3–.30**	**0.11S–.02**	**122.86E–.03**	**101–2**	**5.6b**	**1511**	**1-177**
BJI	V	06 06 46 22.6	0.10S	123.00E	82	5.5b,5.5b		**¶16497787**
NEIC	V	06 06 46 23.5–.08	0.07S	122.95E	82	5.8b,5.5W		
NEIC	V	06 06 46 23.0–.00	0.33S	122.91E	85	5.8b,5.5W		
GCMT	V	06 06 46 23.5–.10	0.05S	122.89E	92–0	5.5W,5.5W		
IDC	V	06 06 46 24.0–1.3	0.09S	122.84E	90–11	5.3,5.0		
ISCJB	V	06 06 46 24.5–.25	0.14S–.01	122.96E–.02	109–2	5.5b,5.0		
MOS	V	06 06 46 25.5–1.3	0.03S	122.89E	114	5.5b,4.3s		
KLM	V	06 06 46 25.1	0.32S	122.90E	86	6.3s,5.7b		
DJA	V	06 06 46 26.0–.20	0S–2.0	123E–1.0	91–2	6.4,6.0b		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gorontalo and [III] at Luwuk and Manado. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.43 $M_{\phi\phi}$-1.22 $M_{r\theta}$0.07 $M_{\theta\phi}$-1.01 $M_{\phi r}$-1.48 Best double couple: NP1:ϕ_s192.00000°,δ66.00000°,λ69.00000°. NP2:ϕ_s56.00000°,δ32.00000°,λ129.00000°. Principal axes: T 2.3600,Plg63.0000°,Azm67.0000° ; N -0.0600,Plg19.0000°,Azm201.0000°; P -2.2900,Plg18.0000°,Azm298.0000° $M_0$2.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-1.46 $M_{r\theta}$-0.14 $M_{\theta\phi}$-1.10 $M_{\phi r}$-0.94 Best double couple: NP1:ϕ_s198.00000°,δ59.00000°,λ76.00000°. NP2:ϕ_s44.00000°,δ34.00000°,λ112.00000°. Principal axes: T 1.9300,Plg72.0000°,Azm73.0000°; N 0.3600,Plg12.0000°,Azm205.0000° ; P -2.2900,Plg12.0000°,Azm298.0000° $M_0$2.10000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c219; s127,c269;Duration: 1s4 Moment tensor: Scale 10^{17} Nm; M_{rr}1.67±.02 $M_{\theta\theta}$-0.44±.02; $M_{\phi\phi}$-1.23±.03; $M_{r\theta}$0.12±.02; $M_{\theta\phi}$-1.29±.02; $M_{\phi r}$-0.97±.02; Best double couple: NP1:ϕ_s195.00000°,δ59.00000°,λ64.00000°. NP2:ϕ_s59.00000°,δ40.00000°,λ126.00000°. Principal axes: T 2.0820,Plg65.0000°,Azm58.0000° ; N 0.2330,Plg22.0000°,Azm210.0000°; P -2.3170,Plg11.0000°,Azm304.0000° $M_0$2.19900×10^{17}
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**06 07 56 11.4–.92**	**38.29N–.05**	**141.85E–.06**	**46–8**	**4.1b**	**81**	**0-146**
NIED	V	06 07 56 00	38.30N	141.80E	56	4.0W		**¶16497788**
MOS	V	06 07 56 09.2–1.6	38.41N	141.79E	33	4.3b		
ISCJB	V	06 07 56 10.4–.49	38.31N–.03	141.86E–.06	57–4	4.2b,3.4s		
JMA	V	06 07 56 12.5–.10	38.34N	141.73E	51–1	4.1,3.4s		
IDC	V	06 07 56 14.3–2.1	38.33N	141.53E	69–19	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ29.00000°,λ124.00000°. NP2:ϕ_s34.00000°,δ67.00000°,λ73.00000°. $M_0$1.32000×10^{15}
MOS Error ellipse: s-maj=10.3km s-min=6.4km az=81.1.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.8km az=23.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=13.0km az=89.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**06 08 30 52.2–1.2**	**39.72N–.05**	**142.2E–.10**	**46–9**	**3.6b**	**28**	**0-73**
NIED	V	06 08 30 00	39.70N	142.20E	44	3.8W		**¶600607823**
ISCJB	V	06 08 30 51.0–.81	39.73N–.05	142.3E–.10	51–6	3.6b		
JMA	V	06 08 30 52.3–.10	39.73N	142.23E	44–1	3.9		
IDC	V	06 08 30 54.5–2.3	39.75N	142.27E	70–20	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ22.00000°,λ80.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ94.00000°. $M_0$5.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=6.3km az=19.2.
JMA Event type fe.
IDC Error ellipse: s-maj=20.9km s-min=13.1km az=113.0.

(226) Near west coast of eastern Honshu

ISC	**V**	**06 09 00 14.1–1.2**	**37.64N–.03**	**138.11E–.04**	**10–7**	**4.2b**	**92**	**0-149**
NIED	V	06 09 00 00	37.70N	138.10E	8	4.2W		**¶16500354**
IDC	V	06 09 00 15.5–3.4	37.62N	138.00E	20–22	4.1,4.0		
ISCJB	V	06 09 00 15.1–.38	37.68N–.02	138.11E–.03	27–3	4.1b,3.4s		
JMA	V	06 09 00 15.1	37.71N	138.11E	18–1	4.2,3.4s		
MOS	V	06 09 00 15.9–1.1	37.64N	138.01E	33	4.3b,3.4s		
NEIC	V	06 09 00 18.3–.66	37.56N	138.03E	43–7	4.3b,3.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ33.00000°,λ136.00000°. NP2:ϕ_s347.00000°,δ67.00000°,λ65.00000°. $M_0$1.89000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=11.6km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.6km az=164.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ79.00000°,λ48.00000°. NP2:ϕ_s233.00000°,δ43.00000°,λ163.00000°. Principal axes: T Plg41.0000°,Azm207.0000°; N Plg41.0000°,Azm346.0000°; P Plg22.0000° ,Azm96.0000°
MOS Error ellipse: s-maj=11.9km s-min=7.7km az=99.2.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=6.6km az=99.0. Recorded [3 JMA] in Niigata.

(36) Northern California

ISC	**V**	**06 09 20 22.2–1.2**	**38.85N–.03**	**122.77W–.04**	**8–10**		**37**	**0-18**
IDC	V	06 09 20 18.5–4.2	38.48N	123.25W	0	3.8,3.4L		**¶16709003**
NEIC	V	06 09 20 21.7	38.82N	122.79W	4	3.2L,3.4L		
ISCJB	V	06 09 20 22.0–.60	38.83N–.03	122.72W–.04	4–6	3.2L,3.4L		

ISC Event type fe.
NEIC Event type fe. Felt at Calistoga, Kelseyville, Middletown and San Rafael. After NCEDC.
ISCJB Event type fe.

(127) Chile-Argentina border region

ISC	**V**	**06 09 25 49.4–.86**	**30.30S–.07**	**69.32W–.08**	**41–7**	**4.0b**	**25**	**1-153**
NEIC	V	06 09 25 44.4–.57	30.60S	69.34W	10	3.8		**¶16709004**
SJA	V	06 09 25 47.8–.46	30.24S	69.28W	5–2	4.0L,3.6W		
IDC	V	06 09 25 49.4–.83	30.39S	69.30W	40–5	3.8,3.8b		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=12.8km s-min=10.5km az=67.0. Felt [III] in the San Jose de Jachal area.
SJA Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=25.6km az=81.0.

(86) Jamaica region

ISC	**V**	**06 09 29 22.4–.90**	**18.04N–.04**	**76.63W–.03**	**16–5**	**4.2b,3.5s**	**292**	**0-151**
IDC	V	06 09 29 19.5–.54	17.91N	76.69W	0	4.3,4.2		**¶16709006**
ISCJB	V	06 09 29 21.0–.47	18.07N–.02	76.59W–.02	13–3	4.1b,3.3s		
NEIC	V	06 09 29 21.6–1.2	18.06N	76.60W	5–8	4.2b,3.3s		
JSN	V	06 09 29 22.5–.35	18.06N	76.65W	11–3	4.3,3.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.9km s-min=13.0km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=35.9.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.3km az=199.0. Felt [IV] at Gordon Town, Kingston and Mona; [III] at Constant Spring, Half Way Tree, Spanish Town and Stony Hill. Also felt at Port Antonio and Portmore.
JSN Error ellipse: s-maj=1.9km s-min=1.1km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**06 11 26 18.7–1.9**	**38.14N–.05**	**141.86E–.09**	**37–3**		**24**	**1-58**
NIED	V	06 11 26 00	38.20N	141.70E	59	3.7W		**¶17202918**
IDC	V	06 11 26 12.9–2.0	38.12N	142.09E	0	3.6,3.6b		
ISCJB	V	06 11 26 18.4–1.1	38.16N–.05	141.8E–.10	50–10	3.6b,3.6b		
JMA	V	06 11 26 19.7–.10	38.17N	141.71E	50–1	3.7,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ35.00000°,λ53.00000°. NP2:ϕ_s14.00000°,δ62.00000°,λ113.00000°. $M_0$4.15000×10^{14}
IDC Error ellipse: s-maj=49.4km s-min=29.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=5.8km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

JMA	**V**	**06 11 52 14.2**	**39.56N**	**140.45E**	**9–1**	**3.6**		
NIED	V	06 11 52 00	39.60N	140.50E	5	3.5W		**¶16498378**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ77.00000°,λ-162.00000°. NP2:ϕ_s279.00000°,δ72.00000°,λ-14.00000°. Principal axes: T Plg3.0000°,Azm146.0000°; N Plg68.0000°,Azm49.0000°; P Plg22.0000° ,Azm237.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ46.00000°,λ-3.00000°. NP2:ϕ_s12.00000°,δ88.00000°,λ-136.00000°. $M_0$1.85000×10^{14}

(238) Ryukyu Islands

JMA	**V**	**06 12 13 00.8–.10**	**29.09N**	**129.42E**	**22–4**	**3.4**		
NIED	V	06 12 13 00	29.10N	129.30E	8	3.8W		**¶600608016**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ45.00000°,λ-140.00000°. NP2:ϕ_s335.00000°,δ63.00000°,λ-53.00000°. $M_0$5.39000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**06 14 15 16.7–1.2**	**36.93N–.03**	**140.69E–.04**	**6–8**	**3.6b**	**23**	**0-147**
NIED	V	06 14 15 00	36.90N	140.70E	8	3.8W		**¶17202932**
IDC	V	06 14 15 15.4–.93	36.82N	140.75E	0	4.0,3.8L		
ISCJB	V	06 14 15 16.1–.74	36.91N–.03	140.73E–.06	14–5	3.6b,3.8L		
JMA	V	06 14 15 16.7	36.94N	140.65E	7–1	3.8,3.8L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ18.00000°,λ-102.00000°. NP2:ϕ_s153.00000°,δ73.00000°,λ-86.00000°. $M_0$5.39000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=21.5km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.6km az=23.1.
JMA Event type fe.

(135) Near coast of central Chile

ISC	**V**	**06 15 03 07.5–2.3**	**29.21S–.04**	**71.83W–.08**	**3–12**		**32**	**1-153**
IDC	V	06 15 03 03.8–2.1	28.43S	73.77W	0	4.8L,3.8		**¶16684753**
NEIC	V	06 15 03 11.0	29.31S	71.41W	72	4.3,3.8		
GUC	V	06 15 03 11.9–.45	29.31S	71.41W	72–16	4.3L,3.8		

ISC Event type fe.
IDC Error ellipse: s-maj=133.0km s-min=60.6km az=133.0.
NEIC Event type fe. Felt [III] at Coquimbo, La Higuera and La Serena; [II] at Alto del Carmen and Vicuna. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=24.2km az=-1.0.

(135) Near coast of central Chile

ISC	**V**	**06 18 06 25.7–.87**	**34.75S–.04**	**72.11W–.09**	**47–7**	**3.8b**	**44**	**0-85**
ISCJB	V	06 18 06 24.0–.68	34.76S–.04	72.13W–.08	51–5	4.5b		**¶16709044**
GUC	V	06 18 06 25.5–.56	34.74S	71.85W	46–6	4.1L		
NEIC	V	06 18 06 27.1–1.1	34.64S	71.86W	49–10	4.5b		
IDC	V	06 18 06 28.1–4.0	34.71S	71.75W	58–43	4.1L,3.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.0km az=10.4.
GUC Error ellipse: s-maj=1.7km s-min=9.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.5km s-min=8.8km az=81.0. Felt [III] at Duao, Iloca, Molina and Talca and [II] at Curico, Linares, Longavi and Romeral.
IDC Error ellipse: s-maj=42.4km s-min=32.3km az=97.0.

(460) Wyoming

ISC	**V**	**06 19 04 45.1–.90**	**43.56N–.05**	**105.22W–.05**	**0**		**26**	**1-20**
IDC	V	06 19 04 41.9–2.9	42.98N	105.04W	0	3.5,3.4L		**¶17202945**
ISCJB	V	06 19 04 44.1–.53	43.61N–.05	105.10W–.06	0	3.5,3.4L		
NEIC	V	06 19 04 46.1–.49	43.55N	105.16W	0	3.3L,3.4L		

ISC Event type sm.
IDC Error ellipse: s-maj=51.8km s-min=9.5km az=156.0.
ISCJB Event type fm. Error ellipse: s-maj=7.2km s-min=5.9km az=41.0.
NEIC Event type fm. Error ellipse: s-maj=7.5km s-min=6.1km az=168.0. 84 km [52 miles] WSW of Newcastle. Suspected Mining explosion.

(460) Wyoming

ISC	**V**	**06 19 23 04.5–.96**	**43.35N–.05**	**105.23W–.06**	**0**		**20**	**1-20**
IDC	V	06 19 23 04.4–1.8	43.23N	105.34W	0	3.4,3.1		**¶17202948**
ISCJB	V	06 19 23 05.7–.66	43.54N–.05	105.27W–.08	0	3.4,3.1		
NEIC	V	06 19 23 06.7–.88	43.47N	105.26W	0	3.0L,3.1		

ISC Event type sm.
IDC Error ellipse: s-maj=38.3km s-min=9.4km az=152.0.
ISCJB Event type fm. Error ellipse: s-maj=8.7km s-min=7.2km az=22.1.
NEIC Event type fm. Error ellipse: s-maj=11.8km s-min=10.4km az=126.0. 80 km [50 miles] N of Douglas. Suspected Mining explosion.

(244) Taiwan

ISC	**V**	**06 21 31 51.6–.65**	**23.17N–.02**	**121.54E–.02**	**25–4**	**4.3b,3.7s**	**239**	**0-84**
NIED	V	06 21 31 00	23.20N	121.60E	29	4.4W,3.7s		**¶16498616**
BJI	V	06 21 31 47.5	23.24N	121.40E	6	4.4b,4.4L		
JMA	V	06 21 31 48.2–.20	23.19N	121.60E	2–2	4.2,4.4L		
ISCJB	V	06 21 31 49.8–.26	23.16N–.01	121.54E–.01	24–2	4.3b,3.7s		
NEIC	V	06 21 31 49.3–.84	23.21N	121.54E	9–5	4.7L,4.4b		
TAP	V	06 21 31 50.7	23.23N	121.43E	23–0	4.7L,4.4b		
IDC	V	06 21 31 54.5–4.3	23.09N	121.53E	54–41	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ45.00000°,λ33.00000°. NP2:ϕ_s205.00000°,δ67.00000°,λ130.00000°. $M_0$4.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=149.5.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=102.0. Recorded [4 TAP] in Taitung and [3 TAP] in Hualien.
TAP B.
IDC Error ellipse: s-maj=18.5km s-min=10.1km az=73.0.

(221) Kuril Islands

ISC	**V**	**06 21 58 34.0–1.6**	**43.10N–.08**	**146.32E–.05**	**25–11**	**3.5b**	**27**	**0-70**
NIED	V	06 21 58 00	43.20N	146.30E	50	3.6W		**¶17202956**
IDC	V	06 21 58 29.9–2.4	43.04N	146.45E	0	3.7,3.5		
JMA	V	06 21 58 36.7–.10	43.20N	146.27E	49–1	3.5,3.5		
SKHL	V	06 21 58 37.2–.50	43.20N	146.30E	30–1	4.7b,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s106.00000°,δ71.00000°,λ92.00000°. $M_0$2.78000×10^{14}
IDC Error ellipse: s-maj=68.7km s-min=25.6km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**06 23 43 14.9–1.2**	**39.22N–.04**	**142.35E–.06**	**19–3**	**3.8b**	**31**	**1-70**
NIED	V	06 23 43 00	39.30N	142.40E	35	4.1W		**¶17202960**
JMA	V	06 23 43 15.8–.10	39.27N	142.37E	37–1	3.8		
IDC	V	06 23 43 18.6–2.5	39.20N	142.44E	62–23	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ65.00000°,λ-177.00000°. NP2:ϕ_s227.00000°,δ87.00000°,λ-25.00000°. $M_0$1.82000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=27.4km s-min=15.2km az=104.0.

(383) Northwestern Balkan Peninsula

ISC	**V**	**06 23 44 52.4–.85**	**45.00N–.01**	**14.98E–.02**	**11–6**	**3.8b**	**805**	**0-78**
ISCJB	V	06 23 44 51.6–.24	45.021N–.01	14.98E–.01	13–1	3.8b,3.5s		**¶602920609**
LDG	V	06 23 44 52.0–.07	45.09N	15.13E	2	4.2L,3.5s		
NEIC	V	06 23 44 52.3	45.00N	15.03E	9	4.2L,4.0b		

CSEM V 06 23 44 52.2–.05 45.00N 14.97E 5 4.6L,4.0b
IDC V 06 23 44 52.1–.87 45.09N 15.15E 0 3.9,3.8L
PDG V 06 23 44 52.3–.79 45.01N 14.99E 13–1 4.5,4.4L
ROM V 06 23 44 52.3–.10 44.95N 15.04E 10 4.2L,4.4L
VIE V 06 23 44 53.6–.59 45.08N 15.02E 6 4.2L,3.8b
BEO V 06 23 44 53.4–1.7 45.16N 15.15E 0 4.2,3.8b
PRU V 06 23 44 53.2 45.08N 15.14E 0 4.0,3.8b
STR V 06 23 45 01.6–.30 45.26N 14.37E 5 4.3L,3.8b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=36.1.
LDG Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=21.0.
NEIC Event type fe. Felt at Rijeka. After ZAG.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=37.0.
IDC Error ellipse: s-maj=14.2km s-min=9.1km az=54.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=73.0.
VIE Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=147.0.
BEO Event type ke.
STR Event type ke.

(127) Chile-Argentina border region

ISC V 07 00 29 13.1–.86 30.61S–.04 70.91W–.07 91–8 3.9b 40 0-88
ISCJB V 07 00 29 12.8–.41 30.61S–.03 70.93W–.07 101–4 4.0b **¶16649720**
NEIC V 07 00 29 12.0 30.63S 70.70W 82 4.1b
GUC V 07 00 29 12.9–.51 30.63S 70.70W 82–5 4.1L
SJA V 07 00 29 13.1–.44 30.86S 70.78W 157–7 4.0L,3.8W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=4.0km az=169.8.
NEIC Event type fe. Felt [III] at Coquimbo and La Serena. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=19.4km az=-1.0.
SJA Error ellipse: s-maj=2.4km s-min=5.9km az=-1.0.

(224) Hokkaido region

ISC V 07 00 37 21.9–.63 42.89N–.05 143.85E–.04 118–5 4.1b 83 0-85
NIED V 07 00 37 00 42.90N 143.80E 116 3.9W **¶16560919**
ISCJB V 07 00 37 21.1–.28 42.88N–.03 143.84E–.04 124–2 4.1b
MOS V 07 00 37 21.3–1.0 42.87N 143.83E 129 4.2b
JMA V 07 00 37 22.5–.10 42.91N 143.81E 116–1 3.8
IDC V 07 00 37 22.4–1.5 42.89N 143.80E 121–10 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ39.00000°,λ156.00000°. NP2:ϕ_s90.00000°,δ75.00000°,λ53.00000°. $M_0$8.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=142.2.
MOS Error ellipse: s-maj=11.8km s-min=7.7km az=84.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ64.00000°,λ49.00000°. NP2: ϕ_s333.00000°,δ47.00000°,λ144.00000°. Principal axes: T Plg52.0000°,Azm311.0000° ; N Plg36.0000°,Azm111.0000°; P Plg10.0000°,Azm208.0000°
IDC Error ellipse: s-maj=17.4km s-min=14.1km az=157.0.

(162) South Island

WEL V 07 01 23 16.1–.07 43.60S 172.67E 5–0 4.0L
NEIC V 07 01 23 15.9 43.60S 172.66E 6 4.0L **¶16498445**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 7.
NEIC Event type fe. Felt strongly at Christchurch. After WEL.

(257) Negros

ISC V 07 01 48 38.1–1.1 9.61N–.04 122.36E–.07 39–5 4.1b 20 1-147
IDC V 07 01 48 34.0–1.1 10.00N 124.96E 0 4.1,4.0b **¶16578043**
MAN V 07 01 48 37 9.63N 122.43E 18 4.5b,3.3L
NEIC V 07 01 48 40.4–1.3 9.56N 124.18E 35 4.3b,3.3L
ISC Event type fe.
IDC Error ellipse: s-maj=124.9km s-min=16.7km az=66.0.
MAN Event type fe. INTENSITY III - BARANGAY LINAWON CAUAYAN NEGROS OCCIDENTAL; INTENSITY II - BARANGAY BASAK CAUAYAN NEGROS OCCIDENTAL.
NEIC Event type se. Error ellipse: s-maj=171.0km s-min=13.4km az=64.0.

(238) Ryukyu Islands

ISC V 07 03 21 49.8–.53 28.65N–.03 129.62E–.04 20–3 4.1b,3.2s 55 0-77
NIED V 07 03 21 00 28.70N 129.60E 20 4.2W,3.2s **¶16578045**
IDC V 07 03 21 46.4–.64 28.61N 129.37E 0 4.0,3.9
ISCJB V 07 03 21 49.4–.40 28.66N–.02 129.63E–.04 31–3 3.9b,3.2s
JMA V 07 03 21 50.0–.10 28.67N 129.59E 17–4 3.9,3.2s
NEIC V 07 03 21 52.3–.76 28.60N 129.60E 41–8 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ23.00000°,λ-136.00000°. NP2:ϕ_s331.00000°,δ74.00000°,λ-73.00000°. $M_0$2.22000×10^{15}
IDC Error ellipse: s-maj=21.7km s-min=14.2km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.2km az=25.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=7.3km az=118.0. Recorded [1 JMA] on Amami-oshima and Kikaiga-shima.

(259) Mindanao

ISC V 07 04 05 36.9–1.5 9.41N–.04 125.89E–.09 44–15 4.2b,3.5s 43 2-120
IDC V 07 04 05 30.5–.64 9.37N 125.66E 0 4.2,4.0 **¶16578046**
MAN V 07 04 05 34 9.46N 125.94E 14 4.9b,3.9L
ISCJB V 07 04 05 36.3–.96 9.40N–.04 125.90E–.09 55–10 4.1b,3.5s
NEIC V 07 04 05 38.0–1.4 9.37N 125.73E 56–13 4.5b,3.5s
ISC Event type fe.
IDC Error ellipse: s-maj=39.7km s-min=13.2km az=86.0.
MAN Event type fe. INTENSITY III - CARRASCAL AND CANTILAN SURIGAO DEL SUR; INTENSITY II - CARMEN AND MADRID SURIGAO DEL SUR; INTENSITY I - CORTEZ SURIGAO DEL SUR; SOCORRO SURIGAO DEL SUR.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=5.9km az=170.0.
NEIC Event type fe. Error ellipse: s-maj=17.7km s-min=7.6km az=85.0. Felt [III PIVS] at Cantilan and Carrascal, [II PIVS] at Carmen and Madrid and [I PIVS] at Cortes and Socorro.

(227) Eastern Honshu

ISC V 07 04 34 55.2–.81 37.71N–.02 139.92E–.02 18–3 4.8b,3.8s 689 0-156
NIED V 07 04 34 00 37.70N 139.90E 8 4.5W,3.8s **¶16498405**
IDC V 07 04 34 52.2–.40 37.75N 139.86E 0 4.6,4.5
ISCJB V 07 04 34 53.8–.36 37.70N–.02 139.87E–.02 17–2 4.7b,3.9s
JMA V 07 04 34 53.9 37.75N 139.93E 8–1 4.6,3.9s
MOS V 07 04 34 56.0–1.0 37.71N 139.86E 33 4.9b,3.9s
NEIC V 07 04 34 59.0–.35 37.69N 139.77E 45–3 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ49.00000°,λ44.00000°. NP2:ϕ_s234.00000°,δ59.00000°,λ129.00000°. $M_0$5.51000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=8.6km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=159.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ70.00000°,λ130.00000°. NP2:ϕ_s347.00000°,δ44.00000°,λ30.00000°. Principal axes: T Plg49.0000°,Azm188.0000°; N Plg37.0000°,Azm39.0000°; P Plg15.0000° ,Azm297.0000°
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=83.1.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=135.0. Recorded [4 JMA] in Fukushima.

(518) Texas-Mexico border region

ISC V 07 04 51 00.3–.52 30.67N–.03 105.80W–.02 10 3.7b 121 1-125
ISCJB V 07 04 50 59.0–.28 30.69N–.03 105.72W–.02 10 3.6b **¶16498618**
IDC V 07 04 50 59.1–.73 30.76N 105.69W 0 4.0b,3.9
NEIC V 07 04 51 00.9–.39 30.64N 105.73W 10 4.1,3.9b
MEX V 07 04 51 01.6–.58 30.70N 105.59W 10 4.1,3.9b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=180.0.
IDC Error ellipse: s-maj=21.0km s-min=8.4km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=5.0. Felt [II] at Ciudad Juarez. Felt at El Paso, Texas.
MEX Error ellipse: s-maj=4.0km s-min=4.6km az=-1.0.

(227) Eastern Honshu

ISC V 07 05 16 37.0–1.3 36.84N–.04 138.67E–.04 0–9 3.6b,2.6s 25 0-92
NIED V 07 05 16 00 36.80N 138.70E 8 3.9W,2.6s **¶17202972**
ISCJB V 07 05 16 36.1–.57 36.85N–.03 138.65E–.04 5–5 3.6b,2.7s
IDC V 07 05 16 37.0–.81 36.85N 138.60E 0 3.9,3.7
JMA V 07 05 16 36.6–.20 36.83N 138.68E 2–3 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ81.00000°,λ2.00000°. NP2:ϕ_s252.00000°,δ88.00000°,λ171.00000°. $M_0$7.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=135.2.
IDC Error ellipse: s-maj=24.0km s-min=7.2km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s77.00000°,δ69.00000°,λ-141.00000°. NP2:ϕ_s331.00000°,δ54.00000°,λ-27.00000°. Principal axes: T Plg9.0000°,Azm201.0000°; N Plg47.0000°,Azm101.0000°; P Plg42.0000° ,Azm299.0000°

(228) Near east coast of eastern Honshu

JMA V 07 05 54 47.9–.10 38.46N 141.83E 55–1 3.6
¶600608779
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC V 07 06 21 42.3–2.3 37.70N–.04 141.91E–.09 37–3 31 1-61
NIED V 07 06 21 00 37.70N 141.70E 35 3.7W **¶17202975**
IDC V 07 06 21 33.4–5.1 38.10N 142.25E 0 3.8,3.7
ISCJB V 07 06 21 42.3–.90 37.71N–.04 141.82E–.09 56–11 3.7b,3.7
JMA V 07 06 21 43.4 37.73N 141.74E 51–2 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ51.00000°,λ137.00000°. NP2:ϕ_s318.00000°,δ58.00000°,λ48.00000°. $M_0$4.30000×10^{14}
IDC Error ellipse: s-maj=97.4km s-min=53.1km az=180.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.7km az=14.2.
JMA Event type fe.

(472) New York

ISC V 07 06 45 09.7–.95 44.73N–.03 73.89W–.02 18–6 76 0-4
ISCJB V 07 06 45 09.8–.42 44.74N–.03 73.88W–.03 22–4 **¶16501774**
NEIC V 07 06 45 10.8 44.67N 73.84W 10 2.6L
OTT V 07 06 45 10.4–.07 44.76N 73.88W 18 2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=168.8.
NEIC Event type fe. Felt at Ellenburg Depot and Lyon Mountain. After LDO.
OTT Event type ke. 43km southeast from Huntingdon, Qc Western Quebec Seismic Zone.

(135) Near coast of central Chile

ISC V 07 06 57 31.0–1.2 33.95S–.04 72.45W–.05 24–8 5.1b,4.3s 638 1-176
ISCJB V 07 06 57 30.0–.91 33.93S–.03 72.38W–.04 26–6 5.0b,4.3s **¶16498411**
GCMT V 07 06 57 31.0–.40 33.98S 72.82W 29–1 5.0W,4.3s
GUC V 07 06 57 31.1–.49 34.02S 72.32W 42–2 4.7L,4.3s
NEIC V 07 06 57 31.0 34.02S 72.32W 42 5.0b,4.3s
MOS V 07 06 57 32.0–1.1 33.79S 72.15W 37 5.1b,4.3s
IDC V 07 06 57 32.4–4.4 33.86S 72.19W 33–32 4.7,4.6
BJI V 07 06 57 33.5 33.80S 72.10W 36 5.3s,5.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=26.7.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s62,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.67±.19 $M_{\theta\theta}$-0.28±.11; $M_{\phi\phi}$-2.38±.14; $M_{r\theta}$-0.50±.14; $M_{\theta\phi}$-0.62±.08; $M_{\phi r}$-2.18±.20; Best double couple: NP1:ϕ_s194.00000° ,δ65.00000°,λ89.00000°. NP2:ϕ_s17.00000°,δ25.00000°,λ93.00000°. Principal axes: T 3.4980,Plg70.0000°,Azm101.0000°; N -0.1160,Plg1.0000°,Azm194.0000° ; P -3.3770,Plg20.0000°,Azm285.0000° $M_0$3.43700×10^{16}
GUC Error ellipse: s-maj=2.8km s-min=4.3km az=-1.0.
NEIC Event type fe. Felt [II] at Curico, Duao, Iloca, Licanten, Navidad, Paredones, Pichilemu, Rancagua, San Bernardo and Santiago. Also felt at Colina, Quilpue and San Antonio. After GUC.
MOS Error ellipse: s-maj=17.3km s-min=7.6km az=100.1.
IDC Error ellipse: s-maj=22.6km s-min=12.5km az=83.0.

(244) Taiwan

ISC V 07 08 35 33.0–1.1 24.44N–.02 122.03E–.02 2–7 3.9b,3.2s 182 0-82
NIED V 07 08 35 00 24.40N 121.90E 5 4.2W,3.2s **¶16498621**
NEIC V 07 08 35 32.9–.97 24.37N 121.99E 1–8 4.2b,3.2s
BJI V 07 08 35 32.6 24.54N 121.97E 6 4.4b,4.3b
ISCJB V 07 08 35 32.3–.30 24.48N–.01 122.07E–.01 1–2 3.9b,3.2s
JMA V 07 08 35 33.0–.10 24.42N 121.95E 12 4.2,3.2s
TAP V 07 08 35 33.4 24.47N 121.97E 13–0 4.5L,3.2s
IDC V 07 08 35 47.3–5.1 24.44N 122.07E 132–49 3.9,3.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ43.00000°,λ-21.00000°. NP2:ϕ_s32.00000°,δ76.00000°,λ-131.00000°. $M_0$1.95000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.6km az=151.0. Felt at Hsinchu.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=155.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=22.9km s-min=14.3km az=73.0.

(115) Near coast of Peru

ISC V 07 10 33 45.3–.45 15.36S–.06 74.52W–.07 73–3 5.0b 572 3-170
SCB V 07 10 33 32.4–1.1 14.92S 75.20W 59 4.4L **¶16498446**
ISCJB V 07 10 33 43.2–.24 15.13S–.04 74.22W–.05 64 5.0b
NEIC V 07 10 33 45.2–.18 15.10S 74.23W 60 5.0b
BJI V 07 10 33 45.3 15.10S 74.20W 60 5.4s,5.2b
GCMT V 07 10 33 45.1–.50 15.48S 74.42W 37–3 4.9W,5.2b
MOS V 07 10 33 46.1–1.2 15.08S 74.34W 83 4.9b,5.2b
IDC V 07 10 33 46.6–1.8 15.25S 74.30W 81–16 4.6,4.5
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=85.2km s-min=23.3km az=6.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=3.6km az=54.0. Felt [IV] at Acari and Yauca and [II] at Nazca.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c19; s67,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.53±.20 $M_{\theta\theta}$-1.34±.12; $M_{\phi\phi}$1.87±.19; $M_{r\theta}$-1.26±.16; $M_{\theta\phi}$1.66±.12; $M_{\phi r}$0.70±.22; Best double couple: NP1:ϕ_s162.00000°,δ71.00000° ,λ-155.00000°. NP2:ϕ_s63.00000°,δ66.00000°,λ-21.00000°. Principal axes: T 2.5830,Plg3.0000°,Azm292.0000°; N 0.3300,Plg59.0000°,Azm197.0000° ; P -2.9070,Plg31.0000°,Azm24.0000° $M_0$2.74500×10^{16}
MOS Error ellipse: s-maj=15.9km s-min=6.5km az=120.9.
IDC Error ellipse: s-maj=22.0km s-min=11.9km az=52.0.

(228) Near east coast of eastern Honshu

ISC V 07 11 24 49.6–1.6 36.63N–.04 141.12E–.05 1–10 4.2b,3.6s 57 0-91
NIED V 07 11 24 00 36.70N 141.20E 5 4.0W,3.6s **¶16560925**
ISCJB V 07 11 24 48.1–.91 36.66N–.03 141.26E–.04 4–5 4.1b,3.4s
IDC V 07 11 24 49.8–.61 36.61N 141.10E 0 4.1,4.0
JMA V 07 11 24 51.0–.10 36.72N 141.11E 24–1 4.2,4.0
NEIC V 07 11 24 54.9–.45 36.61N 141.12E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ51.00000°,λ-159.00000°. NP2:ϕ_s240.00000°,δ74.00000°,λ-41.00000°. $M_0$1.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=22.5.
IDC Error ellipse: s-maj=14.8km s-min=12.9km az=163.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=8.2km az=105.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC V 07 11 32 28.4–1.1 38.15N–.04 141.66E–.08 57–9 3.2b 34 0-63
NIED V 07 11 32 00 38.10N 141.60E 71 3.7W **¶17202983**
ISCJB V 07 11 32 27.3–.67 38.13N–.03 141.67E–.08 68–6 3.1b
IDC V 07 11 32 28.3–2.3 38.17N 141.59E 59–25 3.3,3.3
JMA V 07 11 32 29.1 38.15N 141.55E 61–1 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ33.00000°,λ116.00000°. NP2:ϕ_s201.00000°,δ61.00000°,λ74.00000°. $M_0$3.64000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.1km az=13.4.
IDC Error ellipse: s-maj=33.1km s-min=15.3km az=104.0.
JMA Event type fe.

(236) Shikoku

ISC V 07 12 47 38.5–.73 33.86N–.05 134.69E–.03 35–2 3.6b,3.3s 38 0-77
NIED V 07 12 47 00 33.90N 134.70E 35 4.1W,3.3s **¶16500442**
ISCJB V 07 12 47 37.4–.41 33.85N–.04 134.69E–.03 42–5 3.6b,3.3s
IDC V 07 12 47 38.3–.85 33.78N 134.70E 34–6 3.8,3.8
JMA V 07 12 47 38.1 33.86N 134.69E 39–1 4.0,3.8
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ26.00000°,λ148.00000°. NP2:ϕ_s261.00000°,δ77.00000°,λ68.00000°. $M_0$1.87000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.1km az=161.2.

IDC Error ellipse: s-maj=19.3km s-min=15.6km az=138.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s289.00000°,δ59.00000°,λ89.00000°. NP2:ϕ_s111.00000°,δ31.00000°,λ92.00000°. Principal axes: T Plg76.0000°,Azm196.0000°; N Plg1.0000°,Azm290.0000°; P Plg14.0000°,Azm20.0000°

(236) Shikoku

ISC	**V**	**07 13 00 25.8–1.1**	**33.88N–.05**	**134.68E–.03**	**33–4**		**27**	**0-55**
NIED	V	07 13 00 00	33.90N	134.70E	41	3.6W		**¶17202989**
IDC	V	07 13 00 21.9–1.3	33.68N	134.79E	0	3.8,3.6		
ISCJB	V	07 13 00 25.3–.52	33.87N–.04	134.68E–.04	43–7	3.7b,3.6		
JMA	V	07 13 00 26.1	33.86N	134.68E	38–1	3.6,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ30.00000°,λ87.00000°. NP2:ϕ_s306.00000°,δ60.00000°,λ92.00000°. $M_0$3.20000×10^{14}

IDC Error ellipse: s-maj=40.6km s-min=23.7km az=120.0.

ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=162.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s308.00000°,δ50.00000°,λ105.00000°. NP2:ϕ_s106.00000°,δ42.00000°,λ73.00000°. Principal axes: T Plg78.0000°,Azm278.0000°; N Plg11.0000°,Azm119.0000°; P Plg4.0000°,Azm28.0000°

(502) Arkansas

ISC	**V**	**07 13 08 28.7–.84**	**35.24N–.02**	**92.38W–.02**	**9–5**		**87**	**0-9**
ISCJB	V	07 13 08 28.6–.36	35.25N–.02	92.36W–.02	7–3			**¶16684761**
NEIC	V	07 13 08 29.0	35.25N	92.38W	6	3.1		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=137.2.

NEIC Event type fe. Felt [II] at Conway and Greenbrier. Also felt at Benton, Damascus, Harrison and Mountain Veiw. After CERI.

(134) Off coast of central Chile

ISC	**V**	**07 13 10 48.6–.83**	**33.92S–.04**	**72.54W–.08**	**20–5**	**4.3b**	**50**	**1-157**
ISCJB	V	07 13 10 48.7–1.3	33.95S–.04	72.54W–.07	23–10	4.3b,3.9s		**¶16506879**
GUC	V	07 13 10 48.5–.70	33.91S	72.46W	20–9	4.3L,3.9s		
NEIC	V	07 13 10 48.0	33.91S	72.45W	20	4.3L,4.2b		
IDC	V	07 13 10 51.5–6.2	34.01S	72.27W	33–46	4.4,4.3		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.4km az=16.9.

GUC Error ellipse: s-maj=2.1km s-min=4.5km az=-1.0.

NEIC Event type fe. Felt [III] at Navidad and [II] at Pichilemu and Santiago. After GUC.

IDC Error ellipse: s-maj=39.1km s-min=25.3km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 14 25 40.0–1.8**	**38.27N–.04**	**142.04E–.08**	**26–13**	**3.8b**	**25**	**1-89**
NIED	V	07 14 25 00	38.40N	142.00E	68	3.9W		**¶17202992**
ISCJB	V	07 14 25 40.9–1.1	38.35N–.04	142.1E–.10	44–11	3.7b,2.8s		
IDC	V	07 14 25 41.0–5.8	38.20N	142.30E	33–46	3.7,3.7		
JMA	V	07 14 25 42.2–.10	38.39N	141.98E	47–1	4.0,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ46.00000°,λ179.00000°. NP2:ϕ_s220.00000°,δ89.00000°,λ44.00000°. $M_0$7.09000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=6.2km az=17.2.

IDC Error ellipse: s-maj=35.2km s-min=16.8km az=107.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 14 31 03.3–1.2**	**35.72N–.04**	**140.92E–.09**	**17–5**		**19**	**0-59**
NIED	V	07 14 31 00	35.70N	140.90E	11	3.6W		**¶17202993**
IDC	V	07 14 31 01.0–1.8	35.71N	141.03E	0	3.7,3.6		
ISCJB	V	07 14 31 02.4–1.2	35.72N–.04	141.1E–.10	26–7	3.6b,3.6		
JMA	V	07 14 31 04.2–.10	35.73N	140.92E	13–1	3.8,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ42.00000°,λ-100.00000°. NP2:ϕ_s5.00000°,δ48.00000°,λ-81.00000°. $M_0$2.99000×10^{14}

IDC Error ellipse: s-maj=46.2km s-min=25.1km az=76.0.

ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=5.7km az=174.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 17 17 09.3–1.1**	**36.37N–.08**	**140.98E–.09**	**21–5**	**3.4b**	**21**	**0-75**
NIED	V	07 17 17 00	36.30N	141.00E	26	3.5W		**¶17202999**
IDC	V	07 17 17 05.7–1.1	36.25N	141.03E	0	3.6,3.5		
ISCJB	V	07 17 17 08.5–1.2	36.33N–.06	141.05E–.07	32–6	3.4b,3.5		
JMA	V	07 17 17 09.8–.10	36.32N	140.95E	41–1	3.7,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ9.00000°,λ-1.00000°. NP2:ϕ_s224.00000°,δ90.00000°,λ-99.00000°. $M_0$2.13000×10^{14}

IDC Error ellipse: s-maj=25.1km s-min=21.6km az=78.0.

ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.1km az=136.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 20 03 05.8–.61**	**38.80N–.04**	**141.86E–.07**	**76–5**	**4.2b**	**97**	**0-145**
NIED	V	07 20 03 00	38.80N	141.70E	77	4.0W		**¶16505595**
ISCJB	V	07 20 03 04.3–.46	38.80N–.03	141.97E–.06	82–2	4.1b		
IDC	V	07 20 03 06.3–.79	38.80N	141.73E	74–7	4.1,3.9		
NEIC	V	07 20 03 06.5–.60	38.79N	141.88E	83–6	4.4b,3.9		
JMA	V	07 20 03 07.2–.10	38.81N	141.70E	78–1	4.1,3.9		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ84.00000°,λ175.00000°. NP2:ϕ_s171.00000°,δ85.00000°,λ6.00000°. $M_0$1.20000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=20.8.

IDC Error ellipse: s-maj=16.4km s-min=11.2km az=102.0.

NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.5km az=118.0. Felt at Sendai. Recorded [2 JMA] in Iwate.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ84.00000°,λ-43.00000°. NP2:ϕ_s252.00000°,δ48.00000°,λ-172.00000°. Principal axes: T Plg24.0000°,Azm212.0000°; N Plg47.0000°,Azm331.0000°; P Plg33.0000°,Azm105.0000°

(460) Wyoming

ISC	**V**	**07 20 06 11.4–.69**	**43.82N–.03**	**105.20W–.03**	**0**		**86**	**1-61**
ISCJB	V	07 20 06 11.0–.22	43.75N–.02	105.31W–.02	0	4.3b,2.8s		**¶16709116**
IDC	V	07 20 06 10.9–2.2	43.84N	105.54W	0	4.1b,3.8		
NEIC	V	07 20 06 13.3–.94	43.79N	105.24W	13–8	3.4L,3.8		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=3.5km s-min=2.3km az=167.4.

IDC Error ellipse: s-maj=67.4km s-min=12.0km az=144.0.

NEIC Event type fm. Error ellipse: s-maj=3.6km s-min=2.9km az=47.0. 60 km [37 miles] SSE of Gillette. Suspected Mining explosion.

(162) South Island

WEL	**V**	**07 20 49 56.3–.20**	**43.54S**	**172.82E**	**7–0**	**3.6L**		**¶16499292**

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 20 52 20.8–.22**	**40.26N–.03**	**142.45E–.03**	**39–2**	**5.4b,5.3s**	**1321**	**1-155**
NIED	V	07 20 52 00	40.20N	142.40E	41	5.7W,5.3s		**¶16499107**
BJI	V	07 20 52 13.2	40.09N	142.70E	16	5.6s,5.5		
MOS	V	07 20 52 19.5–1.3	40.37N	142.37E	33	5.6b,5.3s		
JMA	V	07 20 52 20.3–.10	40.24N	142.50E	34–1	5.7,5.3s		
NEIC	V	07 20 52 20.8–.10	40.24N	142.24E	35	5.7W,5.5b		
GCMT	V	07 20 52 20.8–.10	40.29N	142.53E	42–0	5.8W,5.5b		
ISCJB	V	07 20 52 21.0–.29	40.28N–.02	142.34E–.02	48–2	5.4b,5.3s		
IDC	V	07 20 52 22.7–.52	40.26N	142.33E	54–4	5.3s,5.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ22.00000°,λ66.00000°. NP2:ϕ_s25.00000°,δ70.00000°,λ100.00000°. $M_0$4.55000×10^{17}

MOS Error ellipse: s-maj=9.0km s-min=5.7km az=91.3.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=152.0. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32 $M_{\theta\theta}$0.73 $M_{\phi\phi}$-3.06 $M_{r\theta}$1.60 $M_{\theta\phi}$0.07 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s153.00000°,δ29.00000°,λ43.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ112.00000°. Principal axes: T 4.0300,Plg59.0000°,Azm324.0000°; N 0.0900,Plg20.0000°,Azm196.0000°; P -4.1200,Plg23.0000°,Azm97.0000° $M_0$4.10000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c239; s122,c340;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.85±.05 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$-3.94±.04; $M_{r\theta}$1.32±.04; $M_{\theta\phi}$-0.84±.03; $M_{\phi r}$3.16±.05; Best double couple: NP1:ϕ_s19.00000°,δ65.00000°,λ97.00000°. NP2:ϕ_s183.00000°,δ25.00000°,λ76.00000°. Principal axes: T 5.1590,Plg69.0000°,Azm302.0000°; N 0.1900,Plg6.0000°,Azm196.0000°; P -5.3470,Plg20.0000°,Azm104.0000° $M_0$5.25300×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=149.6.

IDC Error ellipse: s-maj=9.0km s-min=7.2km az=89.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**07 21 22 00.0–.20**	**35.73N**	**140.87E**	**13–1**	**3.5**		**¶600609283**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 21 23 58.5–1.8**	**37.25N–.05**	**141.73E–.07**	**29–12**	**4.0b**	**50**	**1-90**
ISCJB	V	07 21 23 58.2–.86	37.28N–.04	141.73E–.07	41–6	3.9b		**¶16560928**
JMA	V	07 21 24 00.4–.10	37.34N	141.60E	44–2	4.3		
NIED	V	07 21 24 00	37.30N	141.60E	32	4.1W		
IDC	V	07 21 24 01.8–2.0	37.33N	141.60E	53–17	3.9,3.8		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.6km az=16.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ33.00000°,λ105.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ80.00000°. $M_0$1.86000×10^{15}

IDC Error ellipse: s-maj=17.7km s-min=13.8km az=102.0.

(227) Eastern Honshu

ISC	**V**	**07 22 11 07.1–.91**	**37.13N–.03**	**140.70E–.04**	**8–5**	**4.5b,4.3s**	**196**	**0-147**
NIED	V	07 22 11 00	37.10N	140.80E	5	4.1W,4.3s		**¶16499108**
IDC	V	07 22 11 05.5–.52	37.12N	140.74E	0	4.3,4.2		
ISCJB	V	07 22 11 07.3–.47	37.11N–.02	140.75E–.03	20–3	4.5b,4.4s		
JMA	V	07 22 11 07.1	37.11N	140.77E	4–1	4.5,4.4s		
MOS	V	07 22 11 09.4–1.0	37.14N	140.75E	37	4.5b,4.4s		
NEIC	V	07 22 11 12.8–.36	37.12N	140.65E	50–3	4.6b,4.4s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ35.00000°,λ-81.00000°. NP2:ϕ_s220.00000°,δ56.00000°,λ-96.00000°. $M_0$1.80000×10^{15}

IDC Error ellipse: s-maj=16.1km s-min=12.9km az=105.0.

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=36.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s237.00000°,δ68.00000°,λ-100.00000°. NP2:ϕ_s82.00000°,δ24.00000°,λ-67.00000°. Principal axes: T Plg22.0000°,Azm335.0000°; N Plg9.0000°,Azm241.0000°; P Plg66.0000°,Azm130.0000°

MOS Error ellipse: s-maj=8.6km s-min=6.4km az=94.8.

NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=135.0. Recorded [3 JMA] in Fukushima.

(229) Off east coast of Honshu

ISC	**V**	**07 23 18 25.1–.53**	**37.42N–.03**	**142.71E–.04**	**17–2**	**4.8b,4.0s**	**462**	**1-146**
NIED	V	07 23 18 00	37.40N	142.70E	8	4.5W,4.0s		**¶16499111**
ISCJB	V	07 23 18 21.2–.86	37.38N–.02	142.65E–.02	0–5	4.9b,4.0s		
IDC	V	07 23 18 22.9–.51	37.42N	142.61E	0	4.7,4.6		
JMA	V	07 23 18 24.0–.30	37.37N	142.68E	34	4.5,4.6		
NEIC	V	07 23 18 24.6–1.2	37.39N	142.62E	11–7	4.8b,4.6		
MOS	V	07 23 18 28.1–.90	37.72N	142.51E	33	4.9b,4.6		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ29.00000°,λ-135.00000°. NP2:ϕ_s72.00000°,δ70.00000°,λ-69.00000°. $M_0$6.01000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=153.4.

IDC Error ellipse: s-maj=13.0km s-min=11.4km az=140.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=132.0. Recorded [1 JMA] in Miyagi.

MOS Error ellipse: s-maj=6.8km s-min=4.0km az=108.2.

(228) Near east coast of eastern Honshu

ISC	**V**	**07 23 48 42.9–.97**	**39.23N–.05**	**142.24E–.09**	**46**	**3.6b**	**26**	**0-67**
NIED	V	07 23 48 00	39.30N	142.30E	47	3.9W		**¶17203011**
ISCJB	V	07 23 48 42.0–.79	39.29N–.04	142.25E–.08	46	3.6b		
JMA	V	07 23 48 42.2–.10	39.28N	142.24E	42–1	3.4		
IDC	V	07 23 48 46.7–2.0	39.22N	142.12E	85–18	3.8,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ14.00000°,λ79.00000°. NP2:ϕ_s25.00000°,δ76.00000°,λ93.00000°. $M_0$8.88000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=17.8.

JMA Event type fe.

IDC Error ellipse: s-maj=29.6km s-min=13.8km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 00 23 05.6–1.6**	**36.33N–.05**	**140.83E–.06**	**13–10**	**3.5b**	**20**	**0-56**
NIED	V	08 00 23 00	36.40N	140.90E	35	3.5W		**¶17203012**
IDC	V	08 00 23 03.1–2.0	36.33N	141.05E	0	3.4,3.4		
ISCJB	V	08 00 23 06.1–1.0	36.33N–.05	140.94E–.07	29–6	3.4b,3.0s		
JMA	V	08 00 23 07.2–.10	36.36N	140.88E	37–1	3.5,3.0s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ33.00000°,λ173.00000°. NP2:ϕ_s3.00000°,δ86.00000°,λ57.00000°. $M_0$1.78000×10^{14}

IDC Error ellipse: s-maj=44.1km s-min=23.9km az=61.0.

ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=7.2km az=29.5.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 00 46 27.3–1.1**	**36.94N–.03**	**140.63E–.04**	**5–8**	**4.0b**	**32**	**0-78**
ISCJB	V	08 00 46 26.6–.59	36.92N–.03	140.75E–.05	17–4	3.8b		**¶16577230**
IDC	V	08 00 46 26.5–.92	36.85N	140.59E	0	3.9,3.8		
JMA	V	08 00 46 27.4	36.94N	140.63E	9–1	3.5,3.8		
NEIC	V	08 00 46 32.6–2.1	36.87N	140.44E	42–18	4.2b,3.8		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=19.6.

IDC Error ellipse: s-maj=20.0km s-min=16.1km az=171.0.

JMA Event type fe.

NEIC Event type se. Error ellipse: s-maj=21.1km s-min=14.3km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 04 53 42.5–.39**	**37.04N–.03**	**141.08E–.04**	**51–3**	**4.4b,3.6s**	**206**	**0-152**
NIED	V	08 04 53 00	37.00N	141.10E	50	4.4W,3.6s		**¶16499295**
ISCJB	V	08 04 53 41.7–.36	37.03N–.03	141.08E–.04	57–2	4.4b,3.5s		
JMA	V	08 04 53 42.3–.10	37.02N	141.08E	51–1	4.4,3.5s		
IDC	V	08 04 53 42.7–.40	37.02N	140.98E	51–3	4.3,4.2		
NEIC	V	08 04 53 43.1–.53	37.06N	140.98E	55–4	4.5b,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ18.00000°,λ112.00000°. NP2:ϕ_s19.00000°,δ74.00000°,λ83.00000°. $M_0$4.06000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=34.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=11.8km s-min=7.9km az=101.0.

NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=131.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 05 01 48.2–1.2**	**36.89N–.03**	**140.65E–.04**	**3–8**	**3.8b**	**27**	**0-147**
ISCJB	V	08 05 01 47.7–.63	36.88N–.03	140.73E–.06	10–4	3.8b		**¶17203025**
IDC	V	08 05 01 47.7–.84	36.65N	140.64E	0	4.0,3.8		
JMA	V	08 05 01 48.1	36.89N	140.67E	8–1	3.7,3.8		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.1km az=18.7.

IDC Error ellipse: s-maj=22.7km s-min=14.2km az=172.0.

JMA Event type fe.

(369) Dodecanese Islands

ISC	**V**	**08 06 50 24.3–.34**	**36.68N–.01**	**27.22E–.01**	**17–1**	**5.1b,4.6s**	**1903**	**0-161**
BEO	V	08 06 50 14.6	36.35N	28.36E	0	5.1b,4.6s		**¶16499298**
BJI	V	08 06 50 21.5	36.60N	27.30E	13	5.2b,5.0b		
IDC	V	08 06 50 21.4–.41	36.67N	27.22E	0	4.8,4.8b		
ISK	V	08 06 50 22.3	36.70N	27.12E	6	5.1L,4.8b		
ISCJB	V	08 06 50 23.7–.23	36.65N–.01	27.23E–.01	26–1	5.0b,4.6s		
CSEM	V	08 06 50 23.5–.06	36.63N	27.26E	12	5.2b,5.2W		
NIC	V	08 06 50 23.8–.40	35.94N	26.93E	81	5.0b,4.7L		

PDG V 08 06 50 23.2–.62 36.72N 27.27E 13–1 4.8L,4.7L
ATH V 08 06 50 23.2 36.69N 27.18E 22–0 4.9L,4.7L
NEIC V 08 06 50 24.3 36.70N 27.24E 11 5.2L,5.1L
MOS V 08 06 50 24.3–.96 36.70N 27.26E 27 5.2b,4.5s
GCMT V 08 06 50 24.3–.20 36.57N 27.36E 13–0 5.2W,4.5s
THE V 08 06 50 24.7 36.70N 27.24E 10–0 5.3L,4.5s
HLW V 08 06 50 25.6 36.46N 27.31E 32–25 4.4L,4.3
DDA V 08 06 50 59.5 36.86N 27.26E 18 4.9L,4.3
ISC Event type fe.
BEO Event type ke.
IDC Error ellipse: s-maj=10.4km s-min=8.1km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.4km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=13.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.1km az=0.0.
ATH Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=69.0.
NEIC Event type fe. Felt [V] at Kos and [IV] at Kalymnos. Also felt at Antimacheia, Kardamaina, Kefalos, Lakkion, Pythagoreion, Rodos and Symi. Felt [III] at Bodrum and [II] at Soke, Turkey. Also felt at Aydin, Datca and Marmaris. After THE. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.31 $M_{\theta\theta}$4.29 $M_{\phi\phi}$-0.99 $M_{r\theta}$0.93 $M_{\theta\phi}$2.73 $M_{\phi r}$0.47 Best double couple: NP1:ϕ_s70.00000°,δ38.00000°,λ-85.00000°. NP2:ϕ_s244.00000° ,δ52.00000°,λ-94.00000°. Principal axes: T 5.5800,Plg7.0000°,Azm337.0000° ; N -2.1400,Plg3.0000°,Azm247.0000°; P -3.4300,Plg83.0000°,Azm132.0000° M_o4.90000×10^{16}
MOS Error ellipse: s-maj=4.1km s-min=2.5km az=99.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c113; s104,c196; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.02 $M_{\theta\theta}$0.65±.01; $M_{\phi\phi}$0.05±.01; $M_{r\theta}$0.44±.04; $M_{\theta\phi}$0.37±.01; $M_{\phi r}$0.15±.03; Best double couple: NP1:ϕ_s248.00000°,δ61.00000° ,λ-86.00000°. NP2:ϕ_s60.00000°,δ30.00000°,λ-97.00000°. Principal axes: T 0.9580,Plg15.0000°,Azm335.0000°; N -0.1190,Plg4.0000°,Azm66.0000° ; P -0.8390,Plg74.0000°,Azm169.0000° M_o0.89900×10^{17}
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=136.0.

(383) Northwestern Balkan Peninsula

ISC	**V**	**08 09 47 11.9–.78**	**41.99N–.01**	**21.28E–.02**	**9–5**	**3.4b**	**313**	**0-70**
PRU	V	08 09 47 04.8	41.64N	21.53E	0	3.4b		**¶602920612**
TIR	V	08 09 47 09.0	40.06N	21.18E	25	3.2L		
IDC	V	08 09 47 10.6–1.1	42.05N	21.09E	0	3.5b,3.5		
SOF	V	08 09 47 10.9	41.97N	21.35E	15	2.8,3.5		
ISCJB	V	08 09 47 10.2–.35	42.04N–.01	21.30E–.02	0–2	3.4b,3.5		
NEIC	V	08 09 47 11.4–.58	42.01N	21.25E	5	3.4L,3.5		
SKO	V	08 09 47 11.2	41.93N	21.29E	15	3.4L,3.1		
CSEM	V	08 09 47 11.4–.09	42.01N	21.28E	2	3.5L,3.1		
PDG	V	08 09 47 11.3–.54	42.03N	21.29E	9–0	3.5L,3.4		
THE	V	08 09 47 11.9	42.01N	21.30E	2–3	3.5L,3.4		
BEO	V	08 09 47 12.2–.36	42.01N	21.27E	13–2	3.2,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=15.1km az=34.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=143.2.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.5km az=131.0. Felt [II] at Skopje.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=50.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
THE Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=18.0.
BEO Event type ke.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 10 42 54.2–.34**	**37.67N–.03**	**141.58E–.03**	**54–2**	**4.8b,3.7s**	**583**	**1-153**
NIED	V	08 10 42 00	37.60N	141.60E	53	4.6W,3.7s		**¶16499301**
JMA	V	08 10 42 53.7–.10	37.65N	141.59E	46–2	4.7,3.7s		
ISCJB	V	08 10 42 53.9–.30	37.66N–.02	141.45E–.03	60–2	4.8b,3.8s		
IDC	V	08 10 42 54.2–.37	37.63N	141.51E	53–3	4.7,4.6		
MOS	V	08 10 42 54.3–.84	37.88N	141.44E	57	5.1b,4.6		
NEIC	V	08 10 42 55.8–.39	37.65N	141.44E	64–3	4.8b,4.6		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ36.00000°,λ115.00000°. NP2:ϕ_s3.00000°,δ58.00000°,λ73.00000°. M_o8.76000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=41.7.
IDC Error ellipse: s-maj=10.8km s-min=7.4km az=103.0.
MOS Error ellipse: s-maj=6.1km s-min=4.3km az=107.7.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=137.0. Felt at Tokyo. Recorded [3 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 11 21 31.4–2.0**	**38.77N–.04**	**142.39E–.07**	**12–11**	**3.6b**	**31**	**1-63**
NIED	V	08 11 21 00	38.80N	142.40E	20	3.5W		**¶17203043**
JMA	V	08 11 21 32.9–.10	38.80N	142.35E	28–2	4.1		
IDC	V	08 11 21 35.6–2.3	38.70N	142.37E	44–21	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ14.00000°,λ141.00000°. NP2:ϕ_s341.00000°,δ81.00000°,λ79.00000°. M_o2.12000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.0km s-min=14.2km az=90.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**08 11 39 08.9**	**38.24N**	**141.82E**	**56–1**	**3.6**		**¶600609751**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 11 49 51.2–1.3**	**38.26N–.05**	**141.78E–.09**	**45–12**	**3.6b**	**28**	**0-89**
NIED	V	08 11 49 00	38.30N	141.70E	5	4.1W		**¶600609757**
ISCJB	V	08 11 49 50.4–.74	38.26N–.04	141.76E–.09	56–7	3.6b		
IDC	V	08 11 49 51.6–2.4	38.21N	141.77E	50–22	3.6,3.6		
JMA	V	08 11 49 52.0–.10	38.30N	141.67E	52–1	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ4.00000°,λ-95.00000°. NP2:ϕ_s175.00000°,δ86.00000°,λ-90.00000°. M_o1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.2km az=19.5.
IDC Error ellipse: s-maj=36.7km s-min=15.6km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 13 28 39.4–1.3**	**38.53N–.05**	**142.58E–.04**	**13–7**	**4.5b,3.5s**	**159**	**1-145**
NIED	V	08 13 28 00	38.50N	142.50E	20	4.2W,3.5s		**¶16499305**
ISCJB	V	08 13 28 38.3–.89	38.53N–.03	142.61E–.05	15–5	4.4b,3.6s		
MOS	V	08 13 28 41.1–1.0	38.61N	142.57E	33	4.5b,3.6s		
JMA	V	08 13 28 41.0–.10	38.56N	142.47E	28–2	4.2,3.6s		
NEIC	V	08 13 28 44.0–.66	38.54N	142.49E	42–6	4.8b,3.6s		
IDC	V	08 13 28 46.0–2.5	38.51N	142.41E	59–21	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ43.00000°,λ-114.00000°. NP2:ϕ_s343.00000°,δ52.00000°,λ-69.00000°. M_o2.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.6km az=32.5.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=97.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.4km az=124.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=14.4km s-min=12.7km az=126.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 15 20 44.4–.96**	**36.91N–.03**	**140.74E–.04**	**14–6**	**3.9b**	**61**	**0-147**
NIED	V	08 15 20 00	37.00N	140.80E	8	3.8W		**¶16501802**
IDC	V	08 15 20 42.9–.59	36.96N	140.85E	0	4.0,3.9		
ISCJB	V	08 15 20 43.9–.81	36.98N–.03	140.97E–.06	19–5	4.0s,3.9b		
JMA	V	08 15 20 45.6	36.98N	140.78E	12–1	4.1,3.9b		
NEIC	V	08 15 20 49.3–.60	37.04N	140.78E	43–5	4.2b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ50.00000°,λ-41.00000°. NP2:ϕ_s161.00000°,δ60.00000°,λ-132.00000°. M_o5.68000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=12.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.4km az=24.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ54.00000°,λ-55.00000°. NP2:ϕ_s180.00000°,δ49.00000°,λ-128.00000°. Principal axes: T Plg3.0000°,Azm116.0000°; N Plg28.0000°,Azm208.0000°; P Plg62.0000° ,Azm20.0000°
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.1km az=113.0. Recorded [2 JMA] in Fukushima and Ibaraki.

(266) Northern Molucca Sea

ISC	**V**	**08 15 51 37.9–.54**	**1.05N–.03**	**125.42E–.04**	**76–4**	**4.8b**	**422**	**2-160**
MOS	V	08 15 51 32.8–1.1	1.19N	125.14E	41	5.3b		**¶16499313**
ISCJB	V	08 15 51 37.2–.29	1.09N–.02	125.44E–.02	84–3	4.8b		
IDC	V	08 15 51 37.6–1.5	1.11N	125.26E	73–13	4.8,4.5		
NEIC	V	08 15 51 38.9–.63	1.07N	125.31E	86–6	4.9b,4.5		
BJI	V	08 15 51 38.7	1.00N	125.30E	84	4.9b,4.8b		
DJA	V	08 15 51 38.7–.20	1N–2.0	126E–2.0	57–3	5.7,5.5b		
GCMT	V	08 15 51 38.9–.20	1.18N	125.28E	59–2	5.1W,5.5b		
KLM	V	08 15 51 43.3	1.00N	125.14E	65	5.6s,5.4L		

ISC Event type fe.
MOS Error ellipse: s-maj=10.0km s-min=5.3km az=114.6.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=162.5.
IDC Error ellipse: s-maj=11.8km s-min=8.6km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=61.0. Felt [IV] at Manado and [III] at Tondano, Indonesia.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c75; s68,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.94±.16 $M_{\theta\theta}$-2.88±.13; $M_{\phi\phi}$1.94±.18; $M_{r\theta}$1.38±.12; $M_{\theta\phi}$4.47±.13; $M_{\phi r}$2.80±.17; Best double couple: NP1:ϕ_s342.00000°,δ71.00000° ,λ156.00000°. NP2:ϕ_s80.00000°,δ67.00000°,λ20.00000°. Principal axes: T 6.3880,Plg30.0000°,Azm300.0000°; N -0.8250,Plg60.0000°,Azm126.0000° ; P -5.5600,Plg3.0000°,Azm32.0000° M_o5.97400×10^{16}

(235) Kyushu

ISC	**V**	**08 17 32 42.8–1.8**	**30.08N–.09**	**130.88E–.08**	**25–10**	**3.8b**	**26**	**0-74**
NIED	V	08 17 32 00	30.10N	130.90E	5	4.0W		**¶17203060**
IDC	V	08 17 32 38.1–3.1	29.95N	130.81E	0	3.7,3.7b		
ISCJB	V	08 17 32 42.5–1.0	30.09N–.05	130.90E–.07	31–6	3.7b,3.7b		
JMA	V	08 17 32 42.4–.10	30.07N	130.89E	24–1	3.6,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ4.00000°,λ165.00000°. NP2:ϕ_s224.00000°,δ89.00000°,λ86.00000°. M_o1.13000×10^{15}
IDC Error ellipse: s-maj=62.3km s-min=31.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.4km az=35.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**08 19 22 55.0–1.6**	**38.35N–.05**	**142.1E–.10**	**43–15**	**3.5b**	**34**	**1-76**
NIED	V	08 19 22 00	38.40N	142.00E	44	3.8W		**¶600610038**
ISCJB	V	08 19 22 54.1–.93	38.36N–.04	142.08E–.10	51–8	3.6b		
JMA	V	08 19 22 55.5–.10	38.40N	141.99E	48–1	3.8		
IDC	V	08 19 22 57.5–2.1	38.33N	142.00E	68–20	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ45.00000°,λ17.00000°. NP2:ϕ_s189.00000°,δ78.00000°,λ134.00000°. M_o5.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.8km az=16.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.0km s-min=13.6km az=101.0.

(227) Eastern Honshu

JMA	**V**	**08 19 59 30.9**	**35.98N**	**137.31E**	**7**	**2.9**		**¶600610059**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**V**	**08 21 28 31.5–.10**	**36.32N**	**140.81E**	**53–1**	**3.3**		**¶600610112**

JMA Event type fe.

(249) Luzon

ISC	**V**	**08 21 44 45.7–1.2**	**17.77N–.09**	**120.7E–.10**	**28**	**3.5b**	**11**	**0-77**
IDC	V	08 21 44 42.5–2.1	17.76N	121.18E	0	3.8,3.6		**¶17203081**
MAN	V	08 21 44 44	17.80N	120.53E	23	4.9b,3.8L		
ISCJB	V	08 21 44 45.7–.62	17.67N–.05	120.52E–.06	28	3.5b,3.8L		

ISC Event type fe.
MAN Event type fe. INTENSITY II - VIGAN SANTA MAGSINGALSTO DOMINGO BANTAY AND SAN ILDEFONSO ILOCOS SUR.
ISCJB Event type fe.

(353) Southern Iran

ISC	**V**	**08 22 17 37.7–.55**	**29.78N–.03**	**50.95E–.03**	**30–3**	**4.9b,3.8s**	**934**	**1-125**
OMAN	V	08 22 17 32.8	29.81N	50.88E	8	4.9b,3.8s		**¶16500451**
TEH	V	08 22 17 32.8	29.81N	50.88E	8	4.8L,3.8s		
MOS	V	08 22 17 33.1–1.1	29.77N	50.88E	10	4.9b,3.8s		
ISCJB	V	08 22 17 34.8–.62	29.72N–.02	50.92E–.02	24–4	4.9b,3.9s		
CSEM	V	08 22 17 34.8–.08	29.76N	50.91E	10	5.0b,3.9s		
DSN	V	08 22 17 35.1–.45	29.63N	50.74E	10	4.6b,3.9s		
IDC	V	08 22 17 37.1–2.8	29.82N	50.94E	25–18	4.6,4.6		
NEIC	V	08 22 17 38.0	29.84N	51.00E	42	4.9b,4.6		
THR	V	08 22 17 38.0–.32	29.84N	51.00E	42–3	4.9L,4.6		
ISN	V	08 22 17 46.6–1.1	29.67N	50.48E	0–140	4.9L,4.6		

ISC Event type fe.
MOS Error ellipse: s-maj=5.5km s-min=3.3km az=109.9.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=24.3.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=19.0.
DSN Error ellipse: s-maj=10.6km s-min=3.5km az=62.0.
IDC Error ellipse: s-maj=12.0km s-min=9.6km az=167.0.
NEIC Event type fe. Felt at Shiraz. After THR.
THR Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
ISN Error ellipse: s-maj=100.1km s-min=165.6km az=-1.0.

(227) Eastern Honshu

ISC	**V**	**08 22 24 34.3–1.3**	**37.20N–.04**	**140.94E–.08**	**10–7**	**3.2b**	**17**	**0-57**
IDC	V	08 22 24 31.9–2.6	37.57N	141.23E	0	3.4,3.3b		**¶17203084**
JMA	V	08 22 24 34.9	37.22N	140.89E	8–1	3.2,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=59.0km s-min=33.7km az=68.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s20.00000°,δ56.00000°,λ-65.00000°. NP2:ϕ_s161.00000°,δ41.00000°,λ-122.00000°. Principal axes: T Plg8.0000°,Azm93.0000°; N Plg20.0000°,Azm186.0000°; P Plg68.0000° ,Azm343.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**08 23 03 58.5–1.2**	**36.89N–.03**	**140.73E–.05**	**6–9**	**3.6b**	**19**	**0-57**
NIED	V	08 23 03 00	36.90N	140.70E	8	3.5W		**¶17203087**
ISCJB	V	08 23 03 58.0–.75	36.90N–.03	140.74E–.06	8–5	3.7b		
IDC	V	08 23 03 57.3–1.9	36.69N	140.78E	0	3.8,3.6		
JMA	V	08 23 03 58.5	36.92N	140.68E	10–1	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ21.00000°,λ-143.00000°. NP2:ϕ_s183.00000°,δ78.00000°,λ-73.00000°. M_o2.34000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.6km az=20.0.
IDC Error ellipse: s-maj=42.3km s-min=26.5km az=51.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s176.00000°,δ68.00000°,λ-68.00000°. NP2:ϕ_s308.00000°,δ31.00000°,λ-133.00000°. Principal axes: T Plg20.0000°,Azm249.0000°; N Plg20.0000°,Azm347.0000°; P Plg61.0000° ,Azm119.0000°

(162) South Island

WEL	**V**	**08 23 52 18.9–.08**	**43.59S**	**172.40E**	**11–0**	**4.0L**		
NEIC	V	08 23 52 19.0	43.59S	172.39E	10	4.0L		**¶16501025**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(238) Ryukyu Islands

ISC	**V**	**08 23 54 32.7–1.3**	**29.10N–.03**	**129.45E–.04**	**18–3**	**3.3b**	**30**	**0-75**
NIED	V	08 23 54 00	29.10N	129.40E	8	4.0W		**¶17203091**
ISCJB	V	08 23 54 32.5–.44	29.10N–.03	129.40E–.05	25–4	3.4b		
JMA	V	08 23 54 32.5–.10	29.09N	129.43E	23–4	3.8		
IDC	V	08 23 54 40.2–4.3	29.27N	129.38E	71–43	3.5,3.5L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ51.00000°,λ-133.00000°. NP2:ϕ_s332.00000°,δ55.00000°,λ-49.00000°. M_o1.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=43.8km s-min=21.9km az=70.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 00 00 58.9–1.0**	**36.82N–.03**	**140.51E–.04**	**8–7**	**4.0b**	**40**	**0-147**
NIED	V	09 00 00 00	36.80N	140.60E	5	3.9W		**¶600610184**

IDC V 09 00 00 57.3–.63 36.81N 140.52E 0 4.0,3.8
ISCJB V 09 00 00 58.5–.49 36.79N–.03 140.62E–.05 19–3 3.9b,3.8
JMA V 09 00 00 58.9 36.81N 140.58E 5–1 3.8,3.8
NEIC V 09 00 01 04.2–.88 36.78N 140.36E 51–8 4.1b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ18.00000°,λ-109.00000°. NP2:ϕ_s214.00000°,δ73.00000°,λ-84.00000°. $M_0$6.92000×10^{14}
IDC Error ellipse: s-maj=17.3km s-min=15.6km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=27.2.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.9km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 00 41 15.1–2.1**	**36.97N–.06**	**141.57E–.07**	**9–12**	**3.5b**	**23**	**1-90**
NIED	V	09 00 41 00	36.90N	141.60E	5	3.4W		**¶17203093**
IDC	V	09 00 41 13.8–1.3	36.79N	141.70E	0	3.6,3.4		
ISCJB	V	09 00 41 14.4–1.3	36.94N–.05	141.63E–.06	15–7	3.4b,3.4		
JMA	V	09 00 41 15.3–.10	36.92N	141.58E	30–2	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ43.00000°,λ-101.00000°. NP2:ϕ_s226.00000°,δ48.00000°,λ-80.00000°. $M_0$1.61000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=28.8km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.7km az=42.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 02 09 51.3–1.7**	**38.28N–.05**	**142.1E–.10**	**60–12**	**3.4b**	**29**	**1-74**
IDC	V	09 02 09 39.4–2.3	38.41N	143.00E	0	3.7,3.6		**¶17203096**
ISCJB	V	09 02 09 52.1–1.1	38.34N–.04	141.9E–.10	70–6	3.4b,3.6		
JMA	V	09 02 09 53.0–.10	38.34N	141.87E	64–1	3.6,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=57.7km s-min=31.5km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=6.0km az=15.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 02 19 18.9–1.2**	**36.39N–.04**	**141.15E–.06**	**19–4**	**3.5b**	**31**	**1-83**
NIED	V	09 02 19 00	36.40N	141.00E	41	3.7W		**¶600610238**
IDC	V	09 02 19 16.1–1.0	36.39N	141.15E	0	3.7,3.6		
JMA	V	09 02 19 21.9–.10	36.39N	141.02E	47–2	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ26.00000°,λ79.00000°. NP2:ϕ_s32.00000°,δ65.00000°,λ95.00000°. $M_0$3.68000×10^{14}
IDC Error ellipse: s-maj=23.1km s-min=19.7km az=180.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 02 26 38.9–1.9**	**36.94N–.04**	**141.56E–.06**	**3–11**	**3.9b**	**49**	**1-117**
NIED	V	09 02 26 00	36.90N	141.60E	8	3.9W		**¶16560936**
ISCJB	V	09 02 26 38.0–1.4	36.93N–.03	141.71E–.04	9–9	3.8b		
IDC	V	09 02 26 38.4–.74	36.84N	141.56E	0	4.0,3.8		
JMA	V	09 02 26 41.0–.10	36.96N	141.54E	43–2	4.3,3.8		
NEIC	V	09 02 26 42.8–2.7	36.85N	141.63E	30–20	4.0b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ40.00000°,λ-89.00000°. NP2:ϕ_s27.00000°,δ50.00000°,λ-91.00000°. $M_0$9.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=5.0km az=162.5.
IDC Error ellipse: s-maj=19.0km s-min=18.5km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=10.1km az=102.0. Recorded [2 JMA] in Fukushima.

(518) Texas-Mexico border region

ISC	**V**	**09 06 40 19.7–1.3**	**30.84N–.04**	**105.69W–.03**	**16–9**		**76**	**1-18**
NEIC	V	09 06 40 19.1–.39	30.76N	105.69W	10	3.9,3.8L		**¶16719694**
MEX	V	09 06 40 19.8–.46	30.79N	105.62W	4–13	3.9,3.8L		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.1km az=178.0. Felt at El Paso, Texas.
MEX Error ellipse: s-maj=10.5km s-min=10.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 06 58 43.5–1.9**	**37.25N–.05**	**141.57E–.07**	**27–13**	**3.9b**	**31**	**1-146**
NIED	V	09 06 58 00	37.30N	141.60E	47	3.9W		**¶17203110**
ISCJB	V	09 06 58 44.0–1.2	37.28N–.05	141.7E–.10	46–9	3.8b,3.5s		
JMA	V	09 06 58 44.6–.10	37.29N	141.60E	45–2	3.8,3.5s		
IDC	V	09 06 58 48.9–2.9	37.24N	141.55E	77–26	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ25.00000°,λ72.00000°. NP2:ϕ_s50.00000°,δ67.00000°,λ98.00000°. $M_0$8.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=7.7km az=21.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=20.6km az=6.0.

(159) North Island

WEL	**V**	**09 07 28 36.3–.10**	**40.64S**	**176.05E**	**29–1**	**3.6L**		**¶16501026**

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Wairarapa region, maximum reported intensity MM 4.

(71) Near coast of Guatemala

ISC	**V**	**09 08 44 37.7–1.6**	**13.18N–.06**	**90.18W–.04**	**28–12**	**4.4b,3.4s**	**234**	**1-137**
IDC	V	09 08 44 34.0–1.2	13.42N	89.68W	0	4.2,4.0		**¶16709248**
ISCJB	V	09 08 44 37.6–.56	13.09N–.04	90.11W–.03	47–4	4.3b,3.2s		
CASC	V	09 08 44 38.0–1.7	13.20N	90.13W	32–7	4.1L,3.2s		
NEIC	V	09 08 44 39.5–.99	13.15N	90.06W	42–9	4.6,4.4b		
MEX	V	09 08 44 44.4–.89	13.30N	90.62W	9–145	4.0,4.4b		

ISC Event type fe.
IDC Error ellipse: s-maj=37.3km s-min=22.5km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.0km az=37.6.
CASC Error ellipse: s-maj=4.9km s-min=6.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=13.4km s-min=8.3km az=216.0. Felt [II] at San Salvador.
MEX Error ellipse: s-maj=111.0km s-min=65.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 09 09 25.6–1.0**	**35.84N–.06**	**140.95E–.08**	**21–2**	**3.9s,3.6b**	**15**	**0-148**
NIED	V	09 09 09 00	35.80N	140.90E	32	3.8W,3.6b		**¶17203115**
IDC	V	09 09 09 22.4–1.2	35.70N	141.06E	0	3.8,3.7		
ISCJB	V	09 09 09 25.4–.97	35.85N–.06	140.97E–.10	30–5	4.0s,3.6b		
JMA	V	09 09 09 26.3–.10	35.82N	140.92E	29–1	3.5,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ50.00000°,λ-36.00000°. NP2:ϕ_s295.00000°,δ63.00000°,λ-134.00000°. $M_0$5.33000×10^{14}
IDC Error ellipse: s-maj=31.6km s-min=30.0km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=8.1km az=155.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(40) California-Nevada border region

ISC	**V**	**09 09 46 24.8–.72**	**38.42N–.02**	**118.73W–.02**	**10**		**83**	**0-28**
ISCJB	V	09 09 46 25.0–.27	38.48N–.02	118.65W–.03	10	2.8b,2.7s		**¶16505596**
IDC	V	09 09 46 24.5–1.0	38.41N	118.78W	0	3.6L,3.4		
NEIC	V	09 09 46 24.2	38.42N	118.74W	2	3.9L,3.6W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=160.0.
IDC Error ellipse: s-maj=10.6km s-min=7.0km az=13.0.
NEIC Event type fe. Felt [II] at Hawthorne. After REN. Moment Tensor Solution. s35 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.88 $M_{\theta\theta}$-1.89 $M_{\phi\phi}$2.77 $M_{r\theta}$1.13 $M_{\theta\phi}$0.44 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s324.00000°,δ56.00000°,λ-165.00000°. NP2:ϕ_s225.00000°,δ78.00000°,λ-35.00000°. Principal axes: T 3.0500,Plg14.0000°,Azm278.0000° ; N -0.4200,Plg53.0000°,Azm28.0000°; P -2.6200,Plg33.0000°,Azm179.0000° $M_0$2.90000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**09 10 53 19.7–.83**	**36.53N–.04**	**140.95E–.06**	**47–7**	**4.3b,3.4s**	**70**	**0-91**
NIED	V	09 10 53 00	36.60N	140.90E	56	4.1W,3.4s		**¶16502522**
ISCJB	V	09 10 53 18.7–.41	36.54N–.03	140.96E–.05	56–3	4.2b,3.3s		
NEIC	V	09 10 53 18.5–.42	36.53N	140.99E	35	4.5b,3.3s		
JMA	V	09 10 53 20.0–.10	36.54N	140.86E	52–1	4.0,3.3s		
IDC	V	09 10 53 22.8–2.0	36.49N	140.75E	75–17	4.2,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ56.00000°,λ144.00000°. NP2:ϕ_s107.00000°,δ61.00000°,λ39.00000°. $M_0$1.84000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=5.8.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=7.4km az=108.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
IDC Error ellipse: s-maj=16.6km s-min=11.5km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 12 08 17.4–1.3**	**36.42N–.04**	**141.06E–.04**	**9–7**	**4.3b,3.4s**	**93**	**0-147**
NIED	V	09 12 08 00	36.50N	141.10E	5	4.1W,3.4s		**¶16503261**
ISCJB	V	09 12 08 15.1–.84	36.37N–.03	141.14E–.04	5–5	4.2b,3.6s		
IDC	V	09 12 08 15.3–.56	36.42N	140.97E	0	4.2,4.1		
JMA	V	09 12 08 17.6	36.47N	141.08E	23–1	4.4,4.1		
NEIC	V	09 12 08 21.3–.38	36.27N	140.98E	35	4.5b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ19.00000°,λ-103.00000°. NP2:ϕ_s197.00000°,δ72.00000°,λ-86.00000°. $M_0$1.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=5.0km az=8.5.
IDC Error ellipse: s-maj=17.1km s-min=13.9km az=84.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.8km az=124.0. Recorded [2 JMA] in Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 13 35 20.3–1.5**	**36.54N–.05**	**141.04E–.06**	**13–9**	**3.6b**	**19**	**0-67**
NIED	V	09 13 35 00	36.60N	141.00E	8	3.4W		**¶17203127**
ISCJB	V	09 13 35 18.8–1.1	36.51N–.04	141.18E–.07	19–8	4.0s,3.5b		
IDC	V	09 13 35 18.0–1.6	36.50N	141.09E	0	3.5,3.4		
JMA	V	09 13 35 21.2–.10	36.56N	140.99E	24–1	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ77.00000°,λ-180.00000°. NP2:ϕ_s233.00000°,δ90.00000°,λ-13.00000°. $M_0$1.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.8km az=22.9.
IDC Error ellipse: s-maj=33.0km s-min=23.3km az=71.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 13 55 45.9–.78**	**35.63N–.05**	**140.18E–.05**	**65–7**	**3.7b**	**37**	**0-79**
NIED	V	09 13 55 00	35.70N	140.20E	62	4.1W		**¶17203129**
ISCJB	V	09 13 55 45.2–.42	35.56N–.04	140.15E–.06	74–4	3.6b		
JMA	V	09 13 55 45.1–.20	35.66N	140.19E	66–2	3.7		
IDC	V	09 13 55 46.7–2.0	35.51N	140.12E	72–18	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ27.00000°,λ110.00000°. NP2:ϕ_s1.00000°,δ65.00000°,λ80.00000°. $M_0$1.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.8km az=145.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ86.00000°,λ89.00000°. NP2: ϕ_s205.00000°,δ4.00000°,λ104.00000°. Principal axes: T Plg49.0000°,Azm280.0000° ; N Plg1.0000°,Azm11.0000°; P Plg41.0000°,Azm102.0000°
IDC Error ellipse: s-maj=22.1km s-min=14.1km az=76.0.

(36) Northern California

ISC	**V**	**09 14 36 47.7–1.1**	**38.82N–.04**	**122.80W–.06**	**8**		**16**	**0-18**
ISCJB	V	09 14 36 46.2–.71	38.86N–.06	122.67W–.09	8			**¶16577243**
NEIC	V	09 14 36 47.4	38.80N	122.78W	4	3.3L		
IDC	V	09 14 36 48.2–4.1	38.74N	122.75W	0	3.7,3.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=150.5.
NEIC Event type fe. Felt at Calistoga, Geyserville, Healdsburg, Livermore, Middletown, Novato, Oakland, Roseville and San Ramon. After NCEDC.
IDC Error ellipse: s-maj=53.4km s-min=11.0km az=49.0.

(162) South Island

ISC	**V**	**09 15 04 24.2–.40**	**43.56S–.04**	**172.46E–.03**	**16**	**4.7b,4.1s**	**185**	**0-159**
ISCJB	V	09 15 04 20.9–.27	43.62S–.03	172.59E–.04	16	4.8b,4.2s		**¶16501829**
GCMT	V	09 15 04 23.2–.30	43.56S	172.31E	14–1	5.0W,4.2s		
NEIC	V	09 15 04 23.3	43.59S	172.41E	12	5.2L,5.0W		
WEL	V	09 15 04 23.3–.05	43.59S	172.41E	12	5.2L,5.0W		
IDC	V	09 15 04 24.6–.70	43.23S	172.12E	0	4.7,4.6b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.4km az=140.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c23; s70,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.15±.13 $M_{\theta\theta}$2.79±.12; $M_{\phi\phi}$-2.94±.12; $M_{r\theta}$0.38±.26; $M_{\theta\phi}$-1.44±.11; $M_{\phi r}$1.75±.39; Best double couple: NP1:ϕ_s146.00000°,δ74.00000°,λ-17.00000°. NP2:ϕ_s241.00000°,δ73.00000°,λ-164.00000°. Principal axes: T 3.1320,Plg1.0000°,Azm194.0000°; N 0.9130,Plg67.0000°,Azm285.0000° ; P -4.0470,Plg23.0000°,Azm103.0000° $M_0$3.58900×10^{16}
NEIC Event type fe. Felt [V] at Christchurch. Felt in much of Canterbury. Also felt in the Greymouth area. After WEL. Moment Tensor Solution. s20 Moment tensor: Scale 10^{16}Nm; M_{rr}0.32 $M_{\theta\theta}$3.01 $M_{\phi\phi}$-3.32 $M_{r\theta}$-0.34 $M_{\theta\phi}$-1.05 $M_{\phi r}$0.39 Best double couple: NP1:ϕ_s234.00000°,δ81.00000°,λ178.00000°. NP2:ϕ_s324.00000°,δ88.00000°,λ9.00000°. Principal axes: T 3.2300,Plg8.0000°,Azm190.0000°; N 0.2900,Plg81.0000°,Azm337.0000° ; P -3.5200,Plg5.0000°,Azm99.0000° $M_0$3.40000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=0.0. Felt between Nelson, Otago and Wellington, maximum reported intensity MM 7.
IDC Error ellipse: s-maj=20.9km s-min=11.1km az=145.0.

(12) Alaska Peninsula

ISC	**V**	**09 19 04 58.3–.28**	**54.94N–.04**	**160.33W–.03**	**32–1**	**5.1b,4.7s**	**882**	**0-156**
MOS	V	09 19 04 53.9–.96	55.11N	160.41W	10	5.4b,4.7s		**¶16501970**
ISCJB	V	09 19 04 57.6–.12	55.00N–.02	160.29W–.02	36	5.0b,4.7s		
GCMT	V	09 19 04 58.8–.40	54.68N	160.28W	52–2	5.1W,4.7s		
NEIC	V	09 19 04 58.8	54.86N	160.17W	21	5.1b,4.8L		
IDC	V	09 19 04 58.3–.58	54.98N	160.31W	33–3	4.9,4.7b		
BJI	V	09 19 04 58.6	55.37N	160.80W	37	5.3b,5.3s		

ISC Event type fe.
MOS Error ellipse: s-maj=8.6km s-min=5.4km az=79.1.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=179.3.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c56; s38,c57; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.92±.25 $M_{\theta\theta}$-2.76±.20; $M_{\phi\phi}$-1.16±.20; $M_{r\theta}$2.58±.21; $M_{\theta\phi}$-1.61±.16; $M_{\phi r}$1.32±.17; Best double couple: NP1:ϕ_s61.00000°,δ64.00000°,λ92.00000°. NP2:ϕ_s236.00000°,δ27.00000°,λ85.00000°. Principal axes: T 4.8950,Plg71.0000°,Azm336.0000°; N -0.1710,Plg2.0000°,Azm240.0000° ; P -4.7240,Plg18.0000°,Azm149.0000° $M_0$4.81000×10^{16}
NEIC Event type fe. Felt at Chignik, Cold Bay, Perryville and Sand Point. After AEIC.
IDC Error ellipse: s-maj=12.4km s-min=8.7km az=171.0.

(259) Mindanao

ISC	**V**	**09 19 13 28.9–.42**	**5.34N–.02**	**126.49E–.04**	**47–3**	**5.4b,5.3s**	**690**	**2-172**
MAN	V	09 19 13 18	4.73N	126.73E	59	5.9b,5.5s		**¶16501972**
BJI	V	09 19 13 22.8	4.95N	126.45E	38	5.4b,5.3b		
MOS	V	09 19 13 24.9–1.0	5.35N	126.47E	32	5.7b,5.1s		
NEIC	V	09 19 13 25.9–.34	5.34N	126.42E	29–2	5.5s,5.5b		
IDC	V	09 19 13 25.9–1.6	5.34N	126.24E	29–10	5.1,5.0		
GCMT	V	09 19 13 25.9–.20	5.33N	126.68E	32–0	5.7W,5.0		
ISCJB	V	09 19 13 27.5–.35	5.40N–.02	126.53E–.02	55–3	5.3b,5.2s		
DJA	V	09 19 13 30.9–.40	5N–2.0	127E–2.0	52–4	5.7b,5.3b		

ISC Event type fe.
NEIC Event type fe. Felt at Santo Nino.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s66,c95; s90,c168;Duration: 1^{h}7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.80±.11 $M_{\theta\theta}$-0.13±.06; $M_{\phi\phi}$-3.67±.07; $M_{r\theta}$0.47±.10; $M_{\theta\phi}$-0.12±.05; $M_{\phi r}$1.60±.11; Best double couple: NP1:ϕ_s8.00000°,δ57.00000°,λ96.00000°. NP2:ϕ_s177.00000°,δ34.00000°,λ81.00000°. Principal axes: T 4.1730,Plg77.0000°,Azm297.0000°; N -0.1630,Plg5.0000° ,Azm184.0000°; P -4.0100,Plg12.0000°,Azm93.0000° $M_0$4.09200×10^{17}
ISCJB Event type fe.

(229) Off east coast of Honshu

ISC	**V**	**09 20 15 55.7–.32**	**37.80N–.03**	**143.55E–.03**	**27–1**	**5.9b,5.2s**	**1988**	**2-160**
NIED	V	09 20 15 00	37.80N	143.60E	8	5.6W,5.2s		**¶16501973**
IDC	V	09 20 15 51.4–.28	37.72N	143.67E	0	5.6,5.6b		
ISCJB	V	09 20 15 51.5–.54	37.71N–.02	143.57E–.01	8–3	5.9b,5.2s		
NEIC	V	09 20 15 53.6–.09	37.74N	143.54E	11	6.0b,5.8		
JMA	V	09 20 15 53.8–.20	37.80N	143.62E	45	5.6,5.8		
GCMT	V	09 20 15 53.4–.10	37.85N	143.67E	13–0	5.6W,5.8		
MOS	V	09 20 15 56.5–1.2	38.10N	143.48E	33	6.1b,5.2s		
BJI	V	09 20 15 58.1	37.89N	142.95E	30	5.6b,5.6b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_s220.00000°,δ56.00000°,λ-88.00000°. M_o2.70000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=7.8km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=166.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=145.0. Recorded [2 JMA] in Fukushima, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s35.00000°,δ25.00000°,λ-90.00000°. NP2: ϕ_s215.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm305.0000° ; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm125.0000°
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s77,c153; s122,c328;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.13±.06 $M_{\theta\theta}$1.17±.04; $M_{\phi\phi}$1.96±.04; $M_{r\theta}$0.30±.10; $M_{\theta\phi}$1.84±.03; $M_{\theta r}$0.61±.10; Best double couple: NP1:ϕ_s216.00000°,δ51.00000°,λ-94.00000°. NP2:ϕ_s42.00000°,δ39.00000°,λ-86.00000°. Principal axes: T 3.5130,Plg6.0000°,Azm309.0000°; N -0.3100,Plg3.0000°,Azm218.0000° ; P -3.2030,Plg84.0000°,Azm102.0000° M_o3.35800×10^{17}
MOS Error ellipse: s-maj=8.0km s-min=5.0km az=95.5.

(162) South Island

WEL	**V**	**09 21 09 19.7–.06**	**43.59S**	**172.39E**	**12**	**4.1L**		
NEIC	V	09 21 09 19.5	43.59S	172.40E	15	4.1L		¶16502618

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(479) Colorado

ISC	**V**	**09 23 28 53.0–.55**	**37.14N–.02**	**104.84W–.02**	**10**	**3.7b,3.1s**	**108**	**0-94**
NEIC	V	09 23 28 52.8–.51	37.02N	104.78W	5	4.0b,3.9L		¶16503270
ISCJB	V	09 23 28 53.1–.25	37.12N–.02	104.71W–.02	10	3.8b,3.3s		
IDC	V	09 23 28 53.2–.78	37.20N	104.75W	0	3.9,3.8b		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.2km az=171.0. Felt [III] at Weston and [II] at Trinidad. Also felt at Aguilar, Boncarbo, La Junta, La Veta and Walsenburg. Moment Tensor Solution. s31 Moment tensor: Scale 10^{14}Nm; M_{rr}-4.81 $M_{\theta\theta}$0.09 $M_{\phi\phi}$4.72 $M_{r\theta}$1.30 $M_{\theta\phi}$1.72 $M_{\theta r}$-0.91 Best double couple: NP1:ϕ_s215.00000°,δ45.00000°,λ-65.00000°. NP2: ϕ_s2.00000°,δ50.00000°,λ-113.00000°. Principal axes: T 5.3100,Plg3.0000°,Azm108.0000° ; N 0.0000,Plg17.0000°,Azm17.0000°; P -5.3100,Plg72.0000°,Azm206.0000° M_o5.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=32.9.
IDC Error ellipse: s-maj=15.3km s-min=9.3km az=72.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 23 38 22.7–.76**	**36.73N–.03**	**140.52E–.04**	**8–4**	**4.6b,3.2s**	**220**	**0-147**
NIED	V	09 23 38 00	36.70N	140.70E	5	4.3W,3.2s		¶16502524
JMA	V	09 23 38 22.7	36.70N	140.64E	6–1	4.5,3.2s		
ISCJB	V	09 23 38 22.6–.45	36.69N–.02	140.63E–.03	17–3	4.4b,3.3s		
MOS	V	09 23 38 26.0–1.0	36.89N	140.49E	33	4.8b,3.3s		
IDC	V	09 23 38 26.7–3.7	36.72N	140.41E	33–28	4.3,4.3		
NEIC	V	09 23 38 28.7–.51	36.75N	140.37E	48–4	4.6b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ30.00000°,λ-68.00000°. NP2:ϕ_s150.00000°,δ63.00000°,λ-102.00000°. M_o2.79000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s134.00000°,δ61.00000°,λ-116.00000°. NP2:ϕ_s0.00000°,δ38.00000°,λ-52.00000°. Principal axes: T Plg12.0000°,Azm243.0000°; N Plg23.0000°,Azm148.0000°; P Plg64.0000° ,Azm359.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=30.5.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=107.8.
IDC Error ellipse: s-maj=14.7km s-min=11.3km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=153.0. Recorded [4 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 23 52 39.2–1.6**	**36.20N–.04**	**141.21E–.05**	**3–10**	**3.8b**	**54**	**1-147**
NIED	V	09 23 52 00	36.20N	141.10E	20	3.6W		¶16709300
IDC	V	09 23 52 39.7–.71	36.17N	141.17E	0	3.9,3.8		
ISCJB	V	09 23 52 40.4–.75	36.25N–.03	141.19E–.05	20–5	3.9b,3.8		
JMA	V	09 23 52 42.2	36.24N	141.05E	40–1	3.9,3.8		
NEIC	V	09 23 52 44.8–.31	36.14N	141.10E	35	4.7b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ40.00000°,λ-77.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ-101.00000°. M_o2.99000×10^{14}
IDC Error ellipse: s-maj=18.6km s-min=16.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.5km az=7.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.3km az=162.0. Recorded [2 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**V**	**09 23 58 06.2–.97**	**36.73N–.04**	**140.59E–.07**	**13–7**	**3.5b**	**21**	**0-57**
IDC	V	09 23 58 04.0–1.9	36.78N	140.79E	0	3.7,3.5		¶17203157
ISCJB	V	09 23 58 05.6–.88	36.70N–.04	140.71E–.07	14–5	3.4b,3.5		
JMA	V	09 23 58 06.7	36.75N	140.58E	7–1	3.2,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=38.4km s-min=24.7km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=4.7km az=33.7.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**10 01 56 37.7–2.0**	**39.01N–.05**	**142.43E–.07**	**13–11**	**3.6b**	**24**	**1-63**
NIED	V	10 01 56 00	39.00N	142.40E	35	3.7W		¶17203161
ISCJB	V	10 01 56 36.8–1.3	38.99N–.04	142.52E–.08	18–8	3.6b		
JMA	V	10 01 56 38.7–.10	39.04N	142.42E	34–2	3.9		
IDC	V	10 01 56 42.3–3.2	38.96N	142.46E	57–32	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ37.00000°,λ-141.00000°. NP2:ϕ_s162.00000°,δ68.00000°,λ-59.00000°. M_o4.67000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.0km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.1km s-min=15.0km az=110.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**10 02 52 21.9–.10**	**38.15N**	**141.98E**	**37–1**	**4.0**		**¶600610947**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**10 04 02 21.4–1.6**	**36.0N–.10**	**140.42E–.08**	**35**	**3.2b**	**11**	**0-56**
ISCJB	V	10 04 02 19.9–1.3	35.88N–.07	140.45E–.08	35	3.2b		¶17203168
IDC	V	10 04 02 19.4–6.8	37.26N	140.44E	103–49	3.4,3.2		
JMA	V	10 04 02 20.9–.10	35.90N	140.36E	37–1	3.3,3.2		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=9.1km az=155.3.
IDC Error ellipse: s-maj=66.2km s-min=25.7km az=65.0.
JMA Event type fe.

(135) Near coast of central Chile

ISC	**V**	**10 04 31 41.7–1.3**	**34.66S–.03**	**72.01W–.06**	**7–8**	**4.6b**	**89**	**0-176**
ISCJB	V	10 04 31 41.6–.91	34.65S–.03	72.13W–.06	12–5	4.5b,3.5s		¶16503272
NEIC	V	10 04 31 41.0	34.65S	72.04W	16	4.6b,4.3L		
IDC	V	10 04 31 41.3–.78	34.54S	71.88W	0	4.5,4.3L		
GUC	V	10 04 31 41.8–.64	34.65S	72.04W	16–4	4.3L,4.3L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.6km az=11.4.
NEIC Event type fe. Felt [III] at Pichilemu and [II] at Colbun, Parral, Pencahue and Talca. After GUC.
IDC Error ellipse: s-maj=34.1km s-min=18.7km az=73.0.
GUC Error ellipse: s-maj=2.1km s-min=4.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**10 05 22 06.8–2.7**	**35.80N–.06**	**141.1E–.10**	**3–14**		**13**	**0-56**
NIED	V	10 05 22 00	35.70N	140.90E	8	3.4W		¶17203177
IDC	V	10 05 22 08.6–3.1	36.29N	141.09E	0	3.5,3.4b		
JMA	V	10 05 22 09.0–.20	35.74N	140.94E	12–1	3.5,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ47.00000°,λ-165.00000°. NP2:ϕ_s55.00000°,δ79.00000°,λ-44.00000°. M_o1.36000×10^{14}
IDC Error ellipse: s-maj=80.9km s-min=31.8km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**10 05 40 32.6–.66**	**37.61N–.04**	**141.52E–.07**	**48–6**	**3.9b**	**45**	**1-146**
NIED	V	10 05 40 00	37.60N	141.50E	53	4.0W		¶16560948
ISCJB	V	10 05 40 31.3–.75	37.58N–.04	141.52E–.09	56–5	4.0b,3.8s		
JMA	V	10 05 40 32.2–.10	37.60N	141.52E	45–2	4.0,3.8s		
IDC	V	10 05 40 33.1–.59	37.60N	141.41E	53–6	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ24.00000°,λ106.00000°. NP2:ϕ_s21.00000°,δ67.00000°,λ83.00000°. M_o9.63000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.1km az=13.7.
JMA Event type fe.
IDC Error ellipse: s-maj=15.4km s-min=14.5km az=112.0.

(229) Off east coast of Honshu

ISC	**V**	**10 07 16 13.4–.37**	**37.28N–.03**	**143.75E–.03**	**31–2**	**5.4b,4.8s**	**1501**	**2-160**
NIED	V	10 07 16 00	37.40N	143.50E	8	5.0W,4.8s		¶600611041
IDC	V	10 07 16 08.6–.36	37.25N	143.78E	0	5.3,5.3		
JMA	V	10 07 16 12.8–.20	37.31N	143.58E	51	5.0,5.3		
BJI	V	10 07 16 12.7	37.47N	143.46E	22	5.1b,5.0b		
ISCJB	V	10 07 16 13.5–.08	37.26N–.02	143.68E–.01	44	5.3b,4.7s		
MOS	V	10 07 16 13.1–.84	37.45N	143.69E	33	5.7b,4.7s		
NEIC	V	10 07 16 14.2–.38	37.26N	143.71E	35–3	5.4b,4.7s		
GCMT	V	10 07 16 14.2–.20	37.37N	143.75E	16–0	5.2W,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ42.00000°,λ-96.00000°. NP2:ϕ_s220.00000°,δ48.00000°,λ-85.00000°. M_o3.59000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.1km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.5km az=166.2.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=112.1.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=143.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki, Miyagi and Tochigi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c115; s117,c191; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.68±.16 $M_{\theta\theta}$3.00±.10; $M_{\phi\phi}$3.67±.11; $M_{r\theta}$1.35±.28; $M_{\theta\phi}$1.87±.07; $M_{\theta r}$2.33±.32; Best double couple: NP1:ϕ_s216.00000°,δ57.00000° ,λ-93.00000°. NP2:ϕ_s42.00000°,δ33.00000°,λ-85.00000°. Principal axes: T 5.8010,Plg12.0000°,Azm309.0000°; N 1.4560,Plg3.0000°,Azm218.0000° ; P -7.2670,Plg78.0000°,Azm116.0000° M_o6.53400×10^{16}

(229) Off east coast of Honshu

ISC	**V**	**10 08 30 31.3–.37**	**37.86N–.03**	**143.65E–.03**	**30–2**	**5.3b,4.8s**	**1305**	**2-159**
NIED	V	10 08 30 00	37.80N	143.60E	8	5.1W,4.8s		¶16502540
IDC	V	10 08 30 26.1–.44	37.73N	143.71E	0	5.1,5.1		
ISCJB	V	10 08 30 27.2–.74	37.83N–.02	143.59E–.02	12–4	5.2b,4.8s		
JMA	V	10 08 30 29.2–.20	37.85N	143.60E	47	5.1,4.8s		
NEIC	V	10 08 30 30.9–.91	37.80N	143.56E	25–6	5.4b,4.8s		
GCMT	V	10 08 30 30.9–.20	37.91N	143.61E	15–0	5.3W,4.8s		
MOS	V	10 08 30 31.5–.90	38.06N	143.54E	33	5.5b,4.4s		
BJI	V	10 08 30 33.9	38.04N	142.86E	25	5.1b,5.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ32.00000°,λ-91.00000°. NP2:ϕ_s203.00000°,δ58.00000°,λ-89.00000°. M_o5.78000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=10.8km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=169.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=142.0. Recorded [1 JMA] in Fukushima, Ibaraki, Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c82; s62,c124; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.03 $M_{\theta\theta}$0.13±.02; $M_{\phi\phi}$0.58±.02; $M_{r\theta}$0.27±.07; $M_{\theta\phi}$0.39±.01; $M_{\theta r}$0.48±.06; Best double couple: NP1:ϕ_s210.00000°,δ63.00000° ,λ-90.00000°. NP2:ϕ_s31.00000°,δ27.00000°,λ-89.00000°. Principal axes: T 0.9890,Plg18.0000°,Azm300.0000°; N -0.0950,Plg0.0000°,Azm210.0000° ; P -0.8940,Plg72.0000°,Azm119.0000° M_o0.94200×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.

(188) Loyalty Islands

ISC	**V**	**10 08 55 12.5–.36**	**20.34S–.03**	**168.28E–.03**	**33–1**	**6.8s,6.4b**	**2331**	**2-167**
IDC	V	10 08 55 07.1–.28	20.31S	168.27E	0	6.7,6.7s		¶16502541
GCMT	V	10 08 55 08.9–.00	20.29S	168.15E	18–0	6.8W,6.7s		
NEIC	V	10 08 55 08.9–.09	20.24S	168.23E	11	6.8,6.8W		
ISCJB	V	10 08 55 09.8–1.3	20.27S–.02	168.26E–.02	25–8	6.8s,6.4b		
NEIC	V	10 08 55 09.0–.00	20.25S	167.87E	15	6.8s,6.4b		
BJI	V	10 08 55 10.0	20.20S	168.20E	20	6.9b,6.9s		
MOS	V	10 08 55 10.7–1.1	20.32S	168.21E	33	6.8s,6.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=11.3km s-min=9.7km az=53.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c357; s144,c674;Duration: 6s1 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.71±.01 $M_{\theta\theta}$-0.17±.01; $M_{\phi\phi}$1.88±.01; $M_{r\theta}$-0.34±.02; $M_{\theta\phi}$-0.66±.01; $M_{\theta r}$0.21±.02; Best double couple: NP1:ϕ_s153.00000°,δ50.00000°,λ-104.00000°. NP2:ϕ_s354.00000° ,δ42.00000°,λ-74.00000°. Principal axes: T 2.0980,Plg4.0000°,Azm253.0000° ; N -0.3170,Plg11.0000°,Azm162.0000°; P -1.7830,Plg78.0000°,Azm6.0000° M_o1.94100×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=141.0. Felt at Tadine and We. Felt [II] at Dumbea and Noumea, New Caledonia. Also felt at Bourail, Mont-Dore and Yate. Felt [II] at Port-Vila, Vanuatu. Also felt at Isangel. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. M_o3.90000×10^{19} Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.78 $M_{\theta\theta}$-0.34 $M_{\phi\phi}$1.13 $M_{r\theta}$0.07 $M_{\theta\phi}$-0.40 $M_{\theta r}$-0.51 Best double couple: NP1:ϕ_s352.00000° ,δ59.00000°,λ-82.00000°. NP2:ϕ_s157.00000°,δ32.00000°,λ-102.00000°. Principal axes: T 1.3500,Plg14.0000°,Azm76.0000°; N -0.4400,Plg7.0000°,Azm168.0000° ; P -0.9100,Plg75.0000°,Azm283.0000° M_o1.20000×10^{19}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=19.5.
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.70 $M_{\theta\theta}$-0.27 $M_{\phi\phi}$1.96 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.66 $M_{\theta r}$-0.10 Best double couple: NP1:ϕ_s350.00000° ,δ46.00000°,λ-82.00000°. NP2:ϕ_s159.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 2.1400,Plg1.0000°,Azm74.0000°; N -0.4300,Plg5.0000°,Azm164.0000° ; P -1.7100,Plg84.0000°,Azm333.0000° M_o2.00000×10^{19}
MOS Error ellipse: s-maj=6.6km s-min=6.0km az=90.6.

(235) Kyushu

ISC	**V**	**10 09 02 38.1–1.1**	**32.20N–.08**	**131.30E–.06**	**72–7**		**16**	**0-73**
ISCJB	V	10 09 02 37.2–.77	32.19N–.09	131.31E–.07	77–5	3.8b		¶17203197
JMA	V	10 09 02 39.4–.10	32.24N	131.29E	63–1	3.3		
IDC	V	10 09 02 39.7–1.1	33.95N	130.37E	0	3.9b,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.1km az=154.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ87.00000°,λ101.00000°. NP2:ϕ_s131.00000°,δ11.00000°,λ16.00000°. Principal axes: T Plg47.0000°,Azm306.0000°; N Plg11.0000°,Azm204.0000°; P Plg41.0000° ,Azm105.0000°
IDC Error ellipse: s-maj=47.5km s-min=10.5km az=62.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**10 10 14 41.2–.54**	**36.28N–.03**	**141.70E–.04**	**27–3**	**5.4s,5.1b**	**777**	**1-150**
NIED	V	10 10 14 00	36.30N	142.00E	20	5.3W,5.1b		¶16502622
IDC	V	10 10 14 36.7–.40	36.22N	141.77E	0	5.0s,5.0		
BJI	V	10 10 14 38.8	36.32N	141.60E	24	5.7b,5.4s		
JMA	V	10 10 14 38.8–.30	36.23N	141.86E	58	5.4,5.4s		
ISCJB	V	10 10 14 40.0–.73	36.25N–.02	141.66E–.02	29–5	5.3s,5.0b		
MOS	V	10 10 14 41.7–.85	36.60N	141.62E	29	5.4b,5.0b		
NEIC	V	10 10 14 43.2–.53	36.24N	141.61E	41–4	5.1b,5.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ18.00000°,λ89.00000°. NP2:ϕ_s19.00000°,δ72.00000°,λ90.00000°. M_o1.08000×10^{17}
IDC Error ellipse: s-maj=12.8km s-min=9.3km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=148.2.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=108.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=137.0. Recorded [3 JMA] in Ibaraki.

(188) Loyalty Islands

ISC	**V**	**10 12 07 36.7–.32**	**20.21S–.06**	**168.37E–.05**	**25**	**4.8b**	**182**	**3-165**
IDC	V	10 12 07 32.6–.56	20.11S	168.35E	0	4.6,4.4		¶16503276

NEIC V 10 12 07 34.5–.18 20.13S 168.35E 10 5.0b,4.4
ISCJB V 10 12 07 35.3–.20 20.15S–.04 168.26E–.04 25 5.0s,4.8b
BJI V 10 12 07 35.2 19.53S 168.82E 16 5.4b,5.3s
MOS V 10 12 07 36.6–1.2 20.07S 168.32E 33 5.1b,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=19.5km s-min=14.8km az=123.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=5.0km az=135.0. Felt at Houailu, New Caledonia.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.0km az=140.2.
MOS Error ellipse: s-maj=10.6km s-min=8.7km az=164.9.

(162) South Island

WEL V 10 12 08 24.7–.07 43.54S 172.73E 5–0 3.8L
NEIC V 10 12 08 24.1 43.54S 172.75E 8 3.9L **¶16506429**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt [V] in the Christchurch area. After WEL.

(228) Near east coast of eastern Honshu

ISC V 10 13 13 43.6–1.9 35.67N–.05 141.16E–.08 18–8 3.5b 19 0-59
NIED V 10 13 13 00 35.60N 141.00E 11 3.7W **¶17203266**
IDC V 10 13 13 43.2–1.7 35.57N 141.01E 0 3.6,3.5
ISCJB V 10 13 13 44.3–1.1 35.65N–.05 141.12E–.09 24–6 3.6b,3.5
JMA V 10 13 13 45.5–.20 35.63N 141.03E 17–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ43.00000°,λ-42.00000°. NP2:ϕ_s312.00000°,δ63.00000°,λ-125.00000°. $M_0$4.59000×10^{14}
IDC Error ellipse: s-maj=46.7km s-min=21.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=7.7km az=170.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(233) Near south coast of western Honshu

ISC V 10 14 01 54.0–1.1 34.20N–.03 135.20E–.03 7–7 4.1b 63 0-96
NIED V 10 14 01 00 34.20N 135.20E 5 4.0W **¶16503279**
IDC V 10 14 01 52.5–.69 34.16N 135.23E 0 4.1,3.9
ISCJB V 10 14 01 53.2–.51 34.20N–.03 135.20E–.03 11–3 4.0b,3.9
JMA V 10 14 01 53.4 34.20N 135.19E 5–1 4.2,3.9
NEIC V 10 14 01 56.0–1.4 34.11N 135.22E 23–10 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ47.00000°,λ47.00000°. NP2:ϕ_s231.00000°,δ57.00000°,λ127.00000°. $M_0$1.06000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=13.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=25.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s1.00000°,δ61.00000°,λ55.00000°. NP2:ϕ_s236.00000°,δ45.00000°,λ136.00000°. Principal axes: T Plg58.0000°,Azm220.0000°; N Plg30.0000°,Azm20.0000°; P Plg9.0000° ,Azm115.0000°
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=4.5km az=173.0. Recorded [4 JMA] in Wakayama.

(228) Near east coast of eastern Honshu

ISC V 10 14 35 28.5–2.4 38.77N–.04 142.38E–.07 5–15 4.0b 34 1-63
IDC V 10 14 35 26.9–1.8 38.67N 142.79E 0 4.0b,3.9 **¶600611288**
NEIC V 10 14 35 32.1–.64 38.68N 142.65E 35 4.1b,3.9
JMA V 10 14 35 33.5–.10 38.88N 142.08E 48–1 3.7,3.9
ISC Event type se.
IDC Error ellipse: s-maj=39.4km s-min=22.6km az=78.0.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=7.1km az=97.0. Recorded [1 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC V 10 15 22 39.7–1.1 36.73N–.04 141.01E–.08 44–9 3.5b 30 0-60
NIED V 10 15 22 00 36.70N 140.90E 44 3.7W **¶17203290**
IDC V 10 15 22 33.2–1.0 36.60N 141.11E 0 4.0,4.0s
ISCJB V 10 15 22 38.2–.68 36.71N–.04 141.07E–.07 51–5 3.8s,3.5b
JMA V 10 15 22 39.7–.10 36.73N 140.93E 52–1 3.7,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ37.00000°,λ60.00000°. NP2:ϕ_s192.00000°,δ58.00000°,λ111.00000°. $M_0$3.77000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=20.3km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=20.8.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC V 10 16 52 01.7–1.0 38.88N–.06 142.35E–.07 27 3.6b 20 1-82
ISCJB V 10 16 51 59.7–.75 38.81N–.05 142.50E–.06 27 3.6b,3.4s **¶17203310**
NIED V 10 16 52 00 38.90N 142.40E 32 3.5W,3.4s
JMA V 10 16 52 01.0–.20 38.86N 142.45E 35–3 3.8,3.4s
IDC V 10 16 52 04.8–3.1 38.78N 142.44E 61–28 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.6km az=151.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ15.00000°,λ95.00000°. NP2:ϕ_s349.00000°,δ75.00000°,λ89.00000°. $M_0$2.07000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=18.3km az=97.0.

(228) Near east coast of eastern Honshu

ISC V 10 17 02 16.1–.77 35.68N–.03 140.87E–.05 26–5 4.3b,4.1s 102 0-148
NIED V 10 17 02 00 35.70N 140.80E 38 4.4W,4.1s **¶600611375**
IDC V 10 17 02 12.6–.57 35.62N 140.83E 0 4.2,4.2
NEIC V 10 17 02 14.5–2.1 35.59N 140.83E 14–13 4.6b,4.2
JMA V 10 17 02 15.6–.10 35.67N 140.84E 28–1 4.1,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ17.00000°,λ-14.00000°. NP2:ϕ_s254.00000°,δ86.00000°,λ-107.00000°. $M_0$4.34000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=13.3km az=70.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=5.2km az=95.0. Recorded [2 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(40) California-Nevada border region

ISC V 10 18 21 51.5–.65 38.30N–.02 118.12W–.02 12–6 85 0-10
NEIC V 10 18 21 52.2 38.29N 118.18W 16 3.6L **¶16505614**
ISC Event type fe.
NEIC Event type fe. Felt at Incline Village. After REN.

(228) Near east coast of eastern Honshu

ISC V 10 18 24 17.4–.92 38.27N–.04 141.95E–.05 48–8 4.5b,3.5s 198 1-146
NIED V 10 18 24 00 38.30N 141.90E 47 4.5W,3.5s **¶16503598**
MOS V 10 18 24 13.9–1.1 38.26N 142.06E 33 4.8b,3.5s
ISCJB V 10 18 24 16.3–.47 38.29N–.03 141.96E–.04 53–3 4.6b,3.6s
JMA V 10 18 24 17.6–.10 38.30N 141.88E 47–1 4.2,3.6s
IDC V 10 18 24 18.4–1.9 38.30N 141.83E 51–16 4.2,4.1
NEIC V 10 18 24 19.4–.47 38.30N 141.87E 64–4 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ22.00000°,λ81.00000°. NP2:ϕ_s24.00000°,δ68.00000°,λ94.00000°. $M_0$5.79000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=105.8.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.5km az=27.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.1km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=122.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC V 10 19 22 25.2–1.0 35.78N–.05 140.97E–.05 13–6 4.1b 51 0-75
NIED V 10 19 22 00 35.80N 141.00E 8 3.9W **¶16560962**
IDC V 10 19 22 23.2–1.1 35.64N 140.79E 0 3.9,3.8
ISCJB V 10 19 22 24.5–.69 35.79N–.04 141.02E–.05 19–5 4.3b,3.8
JMA V 10 19 22 25.1–.20 35.79N 140.98E 13–1 4.2,3.8
NEIC V 10 19 22 25.9–3.1 35.73N 140.95E 17–20 4.7b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ33.00000°,λ-120.00000°. NP2:ϕ_s25.00000°,δ62.00000°,λ-72.00000°. $M_0$9.24000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=23.1km az=167.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.6km az=146.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=8.1km az=108.0. Recorded [2 JMA] in Ibaraki.

(188) Loyalty Islands

ISC V 10 19 31 47.3–.34 20.21S–.06 168.41E–.07 25 5.1b,4.0s 351 3-165
IDC V 10 19 31 43.5–.53 20.18S 168.45E 0 4.8,4.8 **¶16560963**
ISCJB V 10 19 31 46.0–.17 20.21S–.04 168.38E–.04 25 5.0b,4.1s
NEIC V 10 19 31 45.1–.14 20.15S 168.45E 10 5.1b,4.1s
MOS V 10 19 31 47.8–1.1 20.07S 168.31E 33 5.3b,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=17.5km s-min=14.1km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=154.7.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.2km az=156.0. Felt at We. Also felt at Noumea, New Caledonia.
MOS Error ellipse: s-maj=9.7km s-min=9.0km az=8.3.

(228) Near east coast of eastern Honshu

ISC V 10 19 58 10.2–1.0 38.89N–.04 142.00E–.07 52–7 4.5b 96 0-81
NIED V 10 19 58 00 38.90N 141.90E 47 4.0W **¶600611467**
ISCJB V 10 19 58 09.7–.54 38.90N–.03 141.95E–.06 61–3 4.5b
JMA V 10 19 58 10.8–.10 38.91N 141.94E 51–1 4.0
NEIC V 10 19 58 12.2–.61 38.91N 141.95E 68–5 4.6b
IDC V 10 19 58 12.2–2.0 38.92N 141.88E 63–17 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ89.00000°. $M_0$1.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.0km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=114.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=21.2km s-min=13.1km az=95.0.

(228) Near east coast of eastern Honshu

ISC V 10 20 08 22.9–.93 35.55N–.04 140.09E–.05 71–7 3.7b 28 0-75
ISCJB V 10 20 08 21.8–.55 35.54N–.04 140.11E–.06 77–5 3.6b **¶17203319**
JMA V 10 20 08 22.3–.20 35.63N 140.10E 68–2 3.4
IDC V 10 20 08 22.3–3.3 35.54N 140.18E 68–26 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.2km az=146.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ71.00000°,λ110.00000°. NP2: ϕ_s147.00000°,δ28.00000°,λ45.00000°. Principal axes: T Plg59.0000°,Azm314.0000° ; N Plg19.0000°,Azm189.0000°; P Plg23.0000°,Azm90.0000°
IDC Error ellipse: s-maj=46.6km s-min=7.1km az=67.0.

(228) Near east coast of eastern Honshu

ISC V 10 20 24 14.5–.95 35.66N–.03 141.14E–.04 11–5 4.5b,3.8s 222 0-148
NIED V 10 20 24 00 35.80N 141.10E 8 4.5W,3.8s **¶16503601**
IDC V 10 20 24 12.4–.54 35.56N 141.04E 0 4.4,4.4L
ISCJB V 10 20 24 13.5–.71 35.66N–.02 141.14E–.03 15–4 4.5b,3.8s
NEIC V 10 20 24 14.3–.25 35.58N 141.06E 10 4.6b,3.8s
JMA V 10 20 24 15.3–.10 35.67N 141.01E 23–1 4.7,3.8s
MOS V 10 20 24 16.1–1.5 35.70N 141.15E 33 4.8b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ56.00000°,λ-11.00000°. NP2:ϕ_s312.00000°,δ81.00000°,λ-146.00000°. $M_0$7.42000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=12.4km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.9km az=32.4.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=129.0. Felt at Narita. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s309.00000°,δ89.00000°,λ-140.00000°. NP2: ϕ_s218.00000°,δ50.00000°,λ-2.00000°. Principal axes: T Plg26.0000°,Azm76.0000° ; N Plg50.0000°,Azm310.0000°; P Plg28.0000°,Azm181.0000°
MOS Error ellipse: s-maj=8.6km s-min=5.0km az=99.9.

(228) Near east coast of eastern Honshu

ISC V 10 23 13 22.9–1.1 35.78N–.05 140.89E–.09 15–6 3.5b 15 0-56
IDC V 10 23 13 20.8–1.4 35.65N 140.92E 0 3.7,3.5b **¶17203329**
ISCJB V 10 23 13 21.8–1.1 35.78N–.05 141.02E–.09 18–6 3.5b,3.5b
JMA V 10 23 13 22.8–.10 35.79N 140.96E 13–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=26.3km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=8.0km az=162.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC V 10 23 25 35.0–.84 38.48N–.04 144.75E–.05 30–6 4.5b,3.5s 250 2-87
NIED V 10 23 25 00 38.50N 144.60E 5 4.2W,3.5s **¶16560965**
IDC V 10 23 25 30.5–.54 38.41N 144.85E 0 4.5,4.4
ISCJB V 10 23 25 32.6–.97 38.47N–.03 144.64E–.03 15–6 4.5b,3.5s
JMA V 10 23 25 34.4–.20 38.46N 144.61E 52 5.0,3.5s
NEIC V 10 23 25 35.2–.68 38.43N 144.71E 27–5 4.6b,3.5s
MOS V 10 23 25 35.7–1.0 38.75N 144.65E 33 4.8b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ43.00000°,λ-78.00000°. NP2:ϕ_s186.00000°,δ49.00000°,λ-101.00000°. $M_0$1.97000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.1km az=159.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=154.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=106.9.

(228) Near east coast of eastern Honshu

ISC V 11 00 35 21.7–1.5 39.09N–.04 142.38E–.07 18–4 3.8b 24 1-73
NIED V 11 00 35 00 39.10N 142.40E 35 3.7W **¶17203337**
JMA V 11 00 35 22.1–.10 39.12N 142.41E 33–2 3.9
IDC V 11 00 35 27.4–3.8 39.03N 142.27E 73–34 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ12.00000°,λ-169.00000°. NP2:ϕ_s181.00000°,δ88.00000°,λ-78.00000°. $M_0$4.40000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=34.2km s-min=20.2km az=86.0.

(181) Fiji Islands region

ISC V 11 00 48 08.7–.26 18.85S–.06 176.69W–.04 350 5.0b 839 5-176
IDC V 11 00 48 05.8–1.1 18.87S 176.75W 317–9 5.0,4.5 **¶16560023**
NEIC V 11 00 48 06.2–.50 18.92S 176.77W 320–4 5.0b,4.5
GCMT V 11 00 48 06.2–.60 18.91S 176.05W 361–3 5.2W,4.5
ISCJB V 11 00 48 07.9–.11 18.98S–.03 176.78W–.02 350 4.9b,4.5
MOS V 11 00 48 07.1–1.8 18.79S 176.75W 327 5.0b,4.5
ISC Event type fe.
IDC Error ellipse: s-maj=10.6km s-min=9.0km az=158.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=149.0. Felt at Tubou and Vunisea.
GCMT Error ellipse: s-maj=6.7km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s56,c62;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42±.53 $M_{\theta\theta}$3.05±.87; $M_{\phi\phi}$-2.64±.68; $M_{r\theta}$0.89±.69; $M_{\theta\phi}$-3.28±.51; $M_{\phi r}$-7.91±.49; Best double couple: NP1:ϕ_s346.00000°,δ89.00000°,λ-62.00000°. NP2:ϕ_s77.00000°,δ28.00000°,λ-179.00000°. Principal axes: T 8.1050,Plg38.0000°,Azm50.0000°; N 1.6940,Plg28.0000°,Azm165.0000° ; P -9.8050,Plg39.0000°,Azm281.0000° $M_0$8.95500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.5km az=153.5.
MOS Error ellipse: s-maj=8.0km s-min=6.7km az=135.2.

(228) Near east coast of eastern Honshu

ISC V 11 00 50 49.1–.84 38.17N–.05 141.76E–.08 45–5 3.7b 35 0-89
NIED V 11 00 50 00 38.20N 141.70E 47 3.8W **¶16560022**
ISCJB V 11 00 50 48.7–.79 38.17N–.04 141.72E–.09 56–6 3.8b
JMA V 11 00 50 49.6–.10 38.17N 141.68E 51–1 3.9
IDC V 11 00 50 51.8–1.2 38.12N 141.64E 71–8 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ17.00000°,λ114.00000°. NP2:ϕ_s21.00000°,δ75.00000°,λ83.00000°. $M_0$5.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=5.4km az=24.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=20.2km az=125.0.

(169) Samoa Islands region

ISC V 11 01 07 27.7–.44 15.1S–.10 173.7W–.10 33–1 4.8b,4.3s 174 2-150
IDC V 11 01 07 27.8–.66 15.13S 173.69W 51–5 4.3,4.3 **¶16503609**
ISCJB V 11 01 07 29.4–.38 14.29S–.08 173.36W–.05 33 4.7b,4.3s
MOS V 11 01 07 31.1–.99 13.83S 173.33W 33 5.0b,4.3s
NEIC V 11 01 07 33.1–.67 13.88S 173.33W 39–5 4.7b,4.3s
ISC Event type fe.

IDC Error ellipse: s-maj=24.9km s-min=14.9km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.6km az=167.5.
MOS Error ellipse: s-maj=16.0km s-min=10.4km az=45.3.
NEIC Event type fe. Error ellipse: s-maj=12.3km s-min=6.6km az=149.0. Felt at Apia, Samoa and at Fagatogo, American Samoa.

(229) Off east coast of Honshu

ISC	**V**	**11 01 20 07.3–.31**	**37.86N–.03**	**143.56E–.03**	**28–1**	**5.5b,4.8s**	**1453**	**2-160**
NIED	V	11 01 20 00	37.90N	143.50E	8	5.2W,4.8s		**¶16503610**
ISCJB	V	11 01 20 02.9–.69	37.84N–.02	143.60E–.01	8–4	5.4b,4.7s		
JMA	V	11 01 20 05.3–.20	37.86N	143.59E	43	5.2,4.7s		
NEIC	V	11 01 20 05.6–1.4	37.81N	143.56E	15–8	5.6b,4.7s		
GCMT	V	11 01 20 05.6–.20	37.88N	143.68E	13–0	5.2W,4.7s		
BJI	V	11 01 20 07.2	38.02N	143.13E	18	5.2b,5.1b		
MOS	V	11 01 20 07.2–.95	37.97N	143.51E	33	5.7b,4.8s		
IDC	V	11 01 20 08.8–.41	37.79N	143.59E	41–3	5.1,5.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ31.00000°,λ-78.00000°. NP2:ϕ_s210.00000°,δ59.00000°,λ-97.00000°. $M_0$6.42000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=168.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=140.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki, Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s61,c102; s94,c201;Duration: 1τ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.64±.02 $M_{\theta\theta}$0.10±.01; $M_{\phi\phi}$0.54±.01; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.50±.01; $M_{\phi r}$0.44±.04; Best double couple: NP1:ϕ_s199.00000°,δ61.00000°,λ-107.00000°. NP2:ϕ_s51.00000°,δ33.00000°,λ-62.00000°. Principal axes: T 0.9760,Plg15.0000°,Azm301.0000°; N -0.1810,Plg15.0000°,Azm207.0000°; P -0.7960,Plg69.0000°,Azm73.0000° $M_0$0.88600×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=4.0km az=105.8.
IDC Error ellipse: s-maj=11.1km s-min=8.2km az=99.0.

(259) Mindanao

ISC	**V**	**11 01 28 06.8–.58**	**6.10N–.04**	**126.02E–.05**	**97–5**	**4.8b**	**271**	**1-163**
DJA	V	11 01 28 02.6–.60	7N–5.0	126E–4.0	49–5	5.7b,5.5		**¶16503611**
MOS	V	11 01 28 02.9–1.2	6.08N	125.84E	77	5.1b,5.5		
ISCJB	V	11 01 28 05.8–.32	6.06N–.02	126.03E–.03	98–3	4.8b,5.5		
MAN	V	11 01 28 05	6.06N	125.99E	98	5.4b,4.6s		
BJI	V	11 01 28 06.0	6.00N	126.00E	105	5.0b,4.8b		
IDC	V	11 01 28 06.0–.70	6.02N	125.81E	97–5	4.7,4.4		
NEIC	V	11 01 28 08.4–.69	6.04N	125.95E	111–6	4.9b,4.4		

ISC Event type fe.
MOS Error ellipse: s-maj=11.1km s-min=6.0km az=110.5.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=168.1.
MAN Event type fe. INTENSITY II - DAVAO CITY.
IDC Error ellipse: s-maj=16.3km s-min=8.1km az=77.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=76.0. Felt [II PIVS] at Davao and Digos.

(124) Chile-Bolivia border region

ISC	**V**	**11 02 30 04.5–.35**	**20.17S–.03**	**68.72W–.04**	**124–2**	**4.4b**	**419**	**0-167**
ISCJB	V	11 02 30 03.0–.24	20.18S–.03	68.71W–.03	124–2	4.5b		**¶16577265**
SCB	V	11 02 30 03.5–.42	20.06S	68.51W	116	4.5L		
NEIC	V	11 02 30 04.9–.23	20.16S	68.47W	122	4.5b		
IDC	V	11 02 30 05.0–.48	20.13S	68.51W	125–3	4.6,4.3		
GUC	V	11 02 30 05.4–.69	20.22S	68.89W	109–5	4.8L,4.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=155.9.
SCB Event type ke. Error ellipse: s-maj=13.8km s-min=3.3km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.4km az=66.0. Felt [III] at Pica and [II] at Alto Hospicio, Camina, Huara, Iquique, Pisagua, Pozo Almonte and Quillagua, Chile.
IDC Error ellipse: s-maj=14.5km s-min=10.9km az=67.0.
GUC Error ellipse: s-maj=2.5km s-min=5.7km az=-1.0.

(70) Guatemala

ISC	**V**	**11 03 18 32.3–1.1**	**13.97N–.09**	**91.80W–.06**	**59–9**	**3.9b**	**44**	**1-63**
ISCJB	V	11 03 18 31.9–.88	14.07N–.09	91.74W–.06	70–8	3.7b		**¶16709545**
NEIC	V	11 03 18 32.5–2.5	14.01N	91.91W	23–22	3.9		
MEX	V	11 03 18 35.0–.97	13.98N	92.00W	24–27	3.9		
IDC	V	11 03 18 36.9–8.0	14.43N	91.63W	82–40	3.7,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=17.6km s-min=3.8km az=32.0.
NEIC Event type fe. Error ellipse: s-maj=28.6km s-min=13.0km az=224.0. Felt at Antigua Guatemala, Petapa and Villa Nueva.
MEX Error ellipse: s-maj=9.2km s-min=18.2km az=-1.0.
IDC Error ellipse: s-maj=93.1km s-min=26.2km az=6.0.

(159) North Island

ISC	**V**	**11 04 37 32.6–.60**	**38.26S–.04**	**177.49E–.04**	**88–4**	**4.9b**	**224**	**0-155**
IDC	V	11 04 37 30.9–1.2	38.36S	177.56E	76–6	4.7,4.6		**¶16505619**
ISCJB	V	11 04 37 31.7–.26	38.22S–.02	177.53E–.03	91–2	4.8b,4.6		
WEL	V	11 04 37 32.8–.14	38.05S	177.55E	79–1	5.0L,4.6		
NEIC	V	11 04 37 32.6	38.05S	177.55E	81	5.0L,4.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=24.8km s-min=19.6km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.4km az=32.8.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt between Bay of Plenty, Wellington and Gisborne, maximum reported. intensity MM 5.
NEIC Event type fe. Felt in parts of the North Island. After WEL.

(688) East of North Island

ISC	**V**	**11 06 11 26.2–.42**	**36.48S–.04**	**179.60W–.04**	**34–1**	**5.4b,4.5s**	**489**	**2-175**
NEIC	V	11 06 11 23.0–.21	36.33S	179.49W	10	5.3b,4.5s		**¶16503619**
WEL	V	11 06 11 22.9–.51	36.27S	179.08W	33	5.8L,4.5s		
GCMT	V	11 06 11 23.0–.10	36.25S	179.22W	14–0	5.3W,4.5s		
ISCJB	V	11 06 11 25.9–.16	36.49S–.03	179.58W–.03	38	5.3b,4.5s		
MOS	V	11 06 11 25.8–1.1	36.29S	179.62W	33	5.2b,4.8s		
BJI	V	11 06 11 26.5	36.51S	179.74W	42	5.5b,5.4b		
IDC	V	11 06 11 28.9–1.6	36.28S	179.52W	53–14	5.2L,4.9		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=136.0. Felt on the east coast of the North Island.
WEL Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=90.0. Felt between Auckland, Southland and Gisborne, maximum reported intensity MM. 4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c153; s106,c191; Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.07±.02 $M_{\theta\theta}$-0.23±.02; $M_{\phi\phi}$1.30±.02; $M_{r\theta}$-0.05±.04; $M_{\theta\phi}$0.22±.01; $M_{\phi r}$-0.00±.03; Best double couple: NP1:ϕ_s12.00000°,δ45.00000°,λ-85.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-95.00000°. Principal axes: T 1.3300,Plg0.0000°,Azm98.0000°; N -0.2600,Plg4.0000°,Azm188.0000°; P -1.0730,Plg86.0000°,Azm4.0000° $M_0$1.20200×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.3km az=138.0.
MOS Error ellipse: s-maj=10.8km s-min=9.7km az=81.5.
IDC Error ellipse: s-maj=11.8km s-min=8.7km az=163.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**11 07 11 04.2–.10**	**38.52N**	**142.04E**	**40–1**	**3.6**		
NIED	V	11 07 11 00	38.50N	142.00E	65	4.1W		**¶600611660**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ20.00000°,λ-104.00000°. NP2:ϕ_s345.00000°,δ71.00000°,λ-85.00000°. $M_0$1.36000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**V**	**11 10 44 39.0–2.2**	**38.23N–.05**	**142.40E–.08**	**11–12**	**3.7b**	**32**	**1-89**
NIED	V	11 10 44 00	38.30N	142.30E	32	3.6W		**¶17203382**
JMA	V	11 10 44 42.4–.10	38.30N	142.23E	40–2	4.0		
IDC	V	11 10 44 44.4–2.6	38.20N	142.32E	52–23	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ25.00000°,λ-111.00000°. NP2:ϕ_s42.00000°,δ67.00000°,λ-80.00000°. $M_0$2.62000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=16.9km az=91.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**11 10 53 00.1–1.7**	**40.34N–.05**	**142.42E–.08**	**28–12**	**3.9b**	**22**	**1-66**
NIED	V	11 10 53 00	40.30N	142.30E	62	4.2W		**¶17203384**
IDC	V	11 10 53 02.9–3.3	40.36N	142.38E	55–26	3.7,3.5		
JMA	V	11 10 53 02.6–.10	40.29N	142.28E	37–1	3.9,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ29.00000°,λ134.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ69.00000°. $M_0$1.88000×10^{15}
IDC Error ellipse: s-maj=42.9km s-min=28.5km az=134.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**11 12 16 28.2–.65**	**35.74N–.04**	**140.98E–.05**	**21–2**	**3.7b**	**29**	**0-148**
NIED	V	11 12 16 00	35.90N	141.00E	32	3.9W		**¶17203390**
IDC	V	11 12 16 24.8–.76	35.77N	141.20E	0	3.8,3.7L		
ISCJB	V	11 12 16 27.8–.90	35.85N–.04	141.10E–.08	29–5	3.6b,3.4s		
JMA	V	11 12 16 29.8–.10	35.82N	140.92E	29–1	3.4,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ2.00000°,λ20.00000°. NP2:ϕ_s90.00000°,δ89.00000°,λ92.00000°. $M_0$7.91000×10^{14}
IDC Error ellipse: s-maj=22.8km s-min=14.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.3km az=175.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**11 13 03 07.7–1.8**	**38.47N–.04**	**141.99E–.08**	**24–14**	**3.5b**	**24**	**1-62**
NIED	V	11 13 03 00	38.50N	142.10E	32	3.5W		**¶17203393**
IDC	V	11 13 03 04.2–1.8	38.19N	142.72E	0	3.6,3.6		
ISCJB	V	11 13 03 06.3–1.3	38.45N–.04	142.18E–.09	30–7	3.5b,3.6		
JMA	V	11 13 03 08.6–.10	38.53N	142.06E	34–1	3.5,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ40.00000°,λ-116.00000°. NP2:ϕ_s140.00000°,δ55.00000°,λ-70.00000°. $M_0$1.75000×10^{14}
IDC Error ellipse: s-maj=47.7km s-min=23.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.0km az=9.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(377) Spain

ISC	**V**	**11 15 05 12.7–.60**	**37.73N–.02**	**1.71W–.02**	**5–3**	**4.3b,3.6s**	**784**	**0-86**
IDC	V	11 15 05 12.8–.74	37.64N	1.59W	0	4.2,4.2L		**¶16505628**
CSEM	V	11 15 05 12.0–.07	37.75N	1.72W	0	4.8L,4.5W		
CRAAG	V	11 15 05 12.0	37.70N	1.63W		4.5L,4.5W		
NEIC	V	11 15 05 13.1	37.69N	1.67W	0	4.5L,4.5W		
MDD	V	11 15 05 13.5–.15	37.72N	1.71W	2–3	4.6b,4.5		
INMG	V	11 15 05 13.0–1.0	37.70N	1.70W	0	4.5L,4.2		
STR	V	11 15 05 13.0–.77	37.72N	1.67W	5	4.5L,4.2		
MOS	V	11 15 05 13.2–1.5	37.96N	1.79W	10	4.4b,4.2		
LDG	V	11 15 05 13.0–.10	37.60N	1.65W	2	4.5L,4.2		
IGIL	V	11 15 05 13.9	37.70N	1.68W	0	4.2L,4.2		
SFS	V	11 15 05 13.0	37.70N	1.67W	0	4.5L,4.2		
CNRM	V	11 15 05 15.7	37.73N	1.65W	30	4.2,4.2		

ISC Event type fe.
IDC Error ellipse: s-maj=16.8km s-min=15.9km az=122.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=167.0.
NEIC Event type fe. Felt [II] at Lorca and Murcia. Also felt at Aguilas, Ciudad Real, Mazarron and Velez Rubio. After MDD.
MDD Event type fe. Error ellipse: s-maj=1.5km s-min=1.4km az=166.0. EMS VI INTENSIDAD MAXIMA. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=1.4km s-min=1.0km az=142.0.
STR Event type ke.
MOS Error ellipse: s-maj=7.7km s-min=3.3km az=64.6.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=142.0.
SFS Event type ke.

(228) Near east coast of eastern Honshu

ISC	**V**	**11 15 17 01.3–1.7**	**38.86N–.06**	**142.1E–.10**	**44–13**	**3.8b**	**20**	**0-59**
ISCJB	V	11 15 17 00.0–1.2	38.86N–.06	142.1E–.10	51–8	3.8b,3.7s		**¶17203403**
NIED	V	11 15 17 00	38.80N	142.10E	62	3.5W,3.7s		
JMA	V	11 15 17 01.1–.10	38.84N	142.06E	45–1	3.6,3.7s		
IDC	V	11 15 17 02.1–2.9	38.89N	142.22E	57–26	3.7,3.6b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=18.2km s-min=7.3km az=22.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ37.00000°,λ70.00000°. NP2:ϕ_s22.00000°,δ56.00000°,λ105.00000°. $M_0$1.88000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=41.7km s-min=18.0km az=95.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**11 16 39 59.0–1.1**	**37.56N–.04**	**141.78E–.08**	**45–10**	**3.6b**	**37**	**1-74**
ISCJB	V	11 16 39 58.0–.91	37.56N–.04	141.76E–.09	52–8	3.6b		**¶17203411**
NIED	V	11 16 40 00	37.60N	141.60E	38	3.8W		
JMA	V	11 16 40 00.1–.10	37.58N	141.60E	47–2	3.9		
IDC	V	11 16 40 01.3–2.3	37.59N	141.79E	67–21	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=5.9km az=15.2.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ14.00000°,λ39.00000°. NP2:ϕ_s202.00000°,δ81.00000°,λ101.00000°. $M_0$5.02000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=14.0km az=107.0.

(377) Spain

ISC	**V**	**11 16 47 26.0–.44**	**37.65N–.02**	**1.69W–.02**	**7–2**	**5.2b,4.7s**	**2311**	**0-149**
BJI	V	11 16 47 23.7	37.70N	1.70W	5	5.4s,5.3b		**¶16505634**
MOS	V	11 16 47 24.6–1.2	37.74N	1.67W	10	5.3b,4.6s		
IDC	V	11 16 47 24.9–.40	37.64N	1.63W	0	4.8L,4.8		
CSEM	V	11 16 47 25.3–.06	37.71N	1.65W	2	5.4L,5.3b		
SFS	V	11 16 47 25.0	37.69N	1.67W	0	5.1L,5.3b		
NEIC	V	11 16 47 25.7	37.70N	1.67W	1	5.6L,5.3b		
CRAAG	V	11 16 47 25.0	37.68N	1.68W		5.1W,5.3b		
INMG	V	11 16 47 25.5–1.9	37.72N	1.69W	1–2	5.2L,4.5		
GCMT	V	11 16 47 25.7–.20	37.70N	1.65W	12	5.1W,4.5		
MDD	V	11 16 47 26.0–.15	37.72N	1.71W	4	5.4,4.5		
ISCJB	V	11 16 47 27.0–.07	37.72N–.01	1.63W–.01	24	5.1b,4.6s		
IGIL	V	11 16 47 26.4	37.70N	1.68W	0	4.8L,4.6s		
STR	V	11 16 47 27.0–.48	37.77N	1.67W	5	5.3L,4.6s		
CNRM	V	11 16 47 27.5	37.71N	1.50W	25	4.6,4.6s		
LDG	V	11 16 47 28.2–.14	37.58N	1.72W	25	5.6L,4.8s		

ISC Event type de.
MOS Error ellipse: s-maj=5.4km s-min=2.4km az=61.0.
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=133.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=165.0.
SFS Event type ke.
NEIC Event type de. At least ten people killed and dozens injured in the Lorca area. Felt [VI] at Lorca, [V] at Alhama de Murcia and [IV] at Huercal-Overa, Mazarron, Murcia, Lumbreras and Totana. Felt in much of southeastern Spain and in the Madrid area. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After MDD. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}0.84 $M_{\theta\theta}$-5.02 $M_{\phi\phi}$4.18 $M_{r\theta}$-0.47 $M_{\theta\phi}$-0.42 $M_{\phi r}$1.89 Best double couple: NP1:ϕ_s45.00000°,δ70.00000°,λ15.00000°. NP2:ϕ_s310.00000°,δ76.00000°,λ159.00000°. Principal axes: T 5.0700,Plg24.0000°,Azm266.0000°; N 0.0000,Plg65.0000°,Azm97.0000°; P -5.0700,Plg4.0000°,Azm358.0000° $M_0$5.10000×10^{16} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s113.00000°,δ42.00000°,λ157.00000°. NP2:ϕ_s220.00000°,δ75.00000°,λ50.00000°. Principal axes: T Plg45.0000°,Azm90.0000°; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm339.0000°
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=142.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c68; s110,c199; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.43±.11 $M_{\theta\theta}$-6.19±.08; $M_{\phi\phi}$2.76±.11; $M_{r\theta}$1.71±.26; $M_{\theta\phi}$-0.87±.08; $M_{\phi r}$-0.73±.32; Best double couple: NP1:ϕ_s111.00000°,δ61.00000°,λ126.00000°. NP2:ϕ_s234.00000°,δ45.00000°,λ43.00000°. Principal axes: T 4.2440,Plg57.0000°,Azm71.0000°; N 2.2990,Plg31.0000°,Azm271.0000°; P -6.5430,Plg9.0000°,Azm175.0000° $M_0$5.39300×10^{16}
MDD Event type fe. Error ellipse: s-maj=1.5km s-min=1.4km az=164.0. EMS: VII INTENSIDAD MAXIMA. PRXIMO.
ISCJB Event type de. Error ellipse: s-maj=1.7km s-min=1.1km az=164.9.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=2.3km az=109.0.

(233) Near south coast of western Honshu

JMA	**V**	**11 17 46 20.3**	**34.20N**	**135.18E**	**6–1**	**3.5**		**¶16506397**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s343.00000°,δ56.00000°,λ50.00000°. NP2:ϕ_s219.00000°,δ50.00000°,λ133.00000°. Principal axes: T Plg58.0000°,Azm195.0000°; N Plg32.0000°,Azm8.0000°; P Plg3.0000°,Azm100.0000°

(228) Near east coast of eastern Honshu
ISC V 11 18 20 14.7–.56 35.64N–.05 140.71E–.07 45 4.5s,4.2b 46 0-81
ISCJB V 11 18 20 12.2–.42 35.64N–.03 140.89E–.06 45 4.5s,4.1b **¶16560034**
JMA V 11 18 20 15.4–.10 35.72N 140.60E 47–1 3.5,4.1b
NEIC V 11 18 20 17.6–1.2 35.61N 140.50E 68–10 4.8b,4.1b
IDC V 11 18 20 17.3–2.0 35.58N 140.39E 64–18 4.5s,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.8km az=168.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s5.00000°,δ76.00000°,λ97.00000°. NP2: ϕ_s157.00000°,δ15.00000°,λ63.00000°. Principal axes: T Plg58.0000°,Azm284.0000° ; N Plg7.0000°,Azm183.0000°; P Plg31.0000°,Azm89.0000°
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.0km az=75.0.
IDC Error ellipse: s-maj=17.1km s-min=13.3km az=70.0.
(228) Near east coast of eastern Honshu
ISC V 11 18 21 47.5–.53 38.53N–.04 141.87E–.04 52–4 4.9b 398 0-155
NIED V 11 18 21 00 38.50N 141.80E 56 4.8W **¶16506303**
MOS V 11 18 21 46.1–.92 38.62N 141.85E 53 5.2b
ISCJB V 11 18 21 47.0–.39 38.55N–.02 141.78E–.04 56–2 5.2s,4.9b
JMA V 11 18 21 48.0–.10 38.53N 141.81E 50–1 4.6,4.9b
IDC V 11 18 21 48.5–.58 38.56N 141.70E 54–4 4.8,4.6
NEIC V 11 18 21 48.9–.66 38.51N 141.73E 60–6 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ19.00000°,λ86.00000°. NP2:ϕ_s21.00000°,δ71.00000°,λ91.00000°. $M_0$1.61000×10^{16}
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=99.2.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=30.5.
JMA Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=9.6km az=147.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.
(479) Colorado
ISC V 11 19 06 14.5–.85 37.18N–.02 104.73W–.02 4–6 3.9b 217 0-96
IDC V 11 19 06 14.0–.70 37.15N 104.78W 0 4.1,4.0b **¶16506948**
NEIC V 11 19 06 15.3–.20 37.10N 104.67W 5 3.9L,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=11.3km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=199.0. Felt [III] at Weston and [II] at Trinidad. Also felt at Aguilar, La Junta and Walsenburg. Moment Tensor Solution. s21 Moment tensor: Scale 10^{14}Nm; M_{rr}-6.19 $M_{\theta\theta}$0.12 $M_{\phi\phi}$6.07 $M_{r\theta}$0.26 $M_{\theta\phi}$0.95 $M_{\phi r}$-1.12 Best double couple: NP1:ϕ_s193.00000°,δ40.00000°,λ-84.00000°. NP2:ϕ_s5.00000° ,δ50.00000°,λ-95.00000°. Principal axes: T 6.3100,Plg5.0000°,Azm99.0000° ; N 0.0000,Plg4.0000°,Azm8.0000°; P -6.3100,Plg84.0000°,Azm240.0000° $M_0$6.30000×10^{14}
(259) Mindanao
ISC V 11 19 16 15.8–.83 6.31N–.04 126.10E–.06 57–8 4.4b 63 1-160
ISCJB V 11 19 16 13.9–.43 6.32N–.03 126.13E–.05 57–4 4.2b,3.7s **¶16709628**
IDC V 11 19 16 15.3–1.5 6.29N 126.01E 53–14 5.2L,4.2
DJA V 11 19 16 15.8–1.0 6N–9.0 126E–7.0 26–22 5.2b,4.9b
NEIC V 11 19 16 16.2–1.1 6.33N 126.06E 63–10 4.5b,4.9b
MAN V 11 19 16 16 6.53N 126.08E 39 4.9b,3.9s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.5km az=165.1.
IDC Error ellipse: s-maj=34.0km s-min=10.5km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=6.4km az=83.0. Felt [II PIVS] at Sigaboy.
(227) Eastern Honshu
ISC V 11 19 20 54.6–.60 36.17N–.04 138.91E–.07 131–5 4.0b 67 0-149
NIED V 11 19 20 00 36.10N 139.00E 122 4.1W **¶16560035**
ISCJB V 11 19 20 53.3–.28 36.12N–.04 138.91E–.07 136–2 4.0b
NEIC V 11 19 20 54.5–.57 36.10N 138.85E 132–5 4.7b
JMA V 11 19 20 54.5–.20 36.13N 138.97E 131–2 3.9
IDC V 11 19 20 54.5–.74 36.07N 138.78E 132–6 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ38.00000°,λ-33.00000°. NP2:ϕ_s260.00000°,δ71.00000°,λ-123.00000°. $M_0$1.87000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.9km az=175.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=7.6km az=82.0. Recorded [2 JMA] in Yamanashi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s252.00000°,δ66.00000°,λ-90.00000°. NP2: ϕ_s72.00000°,δ24.00000°,λ-90.00000°. Principal axes: T Plg21.0000°,Azm342.0000° ; N Plg0.0000°,Azm72.0000°; P Plg69.0000°,Azm162.0000°
IDC Error ellipse: s-maj=14.5km s-min=9.9km az=84.0.
(460) Wyoming
ISC V 11 20 04 27.7–.93 43.84N–.05 105.30W–.05 0 29 1-19
ISCJB V 11 20 04 26.7–.49 43.85N–.05 105.27W–.06 0 **¶17203429**
NEIC V 11 20 04 27.5–.68 43.74N 105.23W 0 3.2L
IDC V 11 20 04 27.8–1.8 43.97N 105.58W 0 3.6,3.3
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=7.0km s-min=5.9km az=175.1.
NEIC Event type fm. Error ellipse: s-maj=9.5km s-min=8.3km az=145.0. 65 km [40 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=51.6km s-min=10.1km az=147.0.
(228) Near east coast of eastern Honshu
ISC V 11 20 08 14.6–1.8 37.17N–.04 141.39E–.06 8–11 26 0-57
ISCJB V 11 20 08 14.8–1.1 37.15N–.04 141.44E–.06 17–7 3.5b **¶17203430**
JMA V 11 20 08 17.4–.10 37.18N 141.26E 31–1 3.4
IDC V 11 20 08 19.7–3.9 37.04N 141.43E 42–40 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.3km az=22.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=17.1km az=63.0.
(377) Spain
ISC V 11 20 37 44.2–1.1 37.74N–.02 1.72W–.02 6–8 4.0b,3.0s 429 0-60
ISCJB V 11 20 37 43.3–.30 37.84N–.02 1.80W–.01 8–2 3.8b,2.9s **¶16506310**
IDC V 11 20 37 43.7–1.1 37.69N 1.69W 0 4.1L,4.0
CSEM V 11 20 37 44.4–.09 37.73N 1.72W 5 4.3L,3.9W
CRAAG V 11 20 37 44.0 37.76N 1.72W 3.9W,3.9W
MDD V 11 20 37 45.4–.17 37.73N 1.70W 4 4.0,3.9W
SFS V 11 20 37 45.0 37.68N 1.64W 6 3.9L,3.9W
LDG V 11 20 37 45.2–.12 37.65N 1.63W 2 4.1L,3.9W
INMG V 11 20 37 45.5–1.0 37.76N 1.68W 5–1 3.9L,3.9W
IGIL V 11 20 37 45.8 37.68N 1.64W 6 3.6L,3.9W
STR V 11 20 37 48.3–.73 37.95N 1.67W 5 4.2L,3.9W
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=163.8.
IDC Error ellipse: s-maj=22.7km s-min=14.4km az=49.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=161.0.
MDD Event type fe. Error ellipse: s-maj=1.8km s-min=1.6km az=177.0. EMS: IV INTENSIDAD MAXIMA.
SFS Event type ke.
LDG Event type ke. Error ellipse: s-maj=3.1km s-min=1.5km az=143.0.
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=131.0.
STR Event type ke.
(228) Near east coast of eastern Honshu
ISC V 11 20 46 57.9–1.4 39.62N–.04 142.13E–.09 47–9 3.6b 22 0-60
ISCJB V 11 20 46 57.0–.92 39.65N–.04 142.2E–.10 52–6 3.3b **¶17203434**
JMA V 11 20 46 58.0 39.63N 142.11E 48–1 3.3
IDC V 11 20 47 02.2–2.3 39.92N 141.56E 49–27 3.3,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.1km az=8.4.
JMA Event type fe.
IDC Error ellipse: s-maj=42.2km s-min=17.6km az=99.0.
(224) Hokkaido region
ISC V 11 22 13 31.4–1.3 42.25N–.05 144.68E–.04 32–9 4.1b 121 1-115
NIED V 11 22 13 00 42.30N 144.70E 35 4.0W **¶16560037**
ISCJB V 11 22 13 30.6–.57 42.21N–.04 144.74E–.04 44–4 4.2b
SKHL V 11 22 13 30.8–.10 42.11N 144.82E 54–4 5.1b
JMA V 11 22 13 31.9 42.34N 144.68E 36–1 3.9
MOS V 11 22 13 31.0–1.3 42.21N 144.61E 46 4.3b
NEIC V 11 22 13 32.1–.89 42.21N 144.70E 40–9 4.5b
IDC V 11 22 13 33.2–2.6 42.22N 144.56E 47–24 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ35.00000°,λ116.00000°. NP2:ϕ_s48.00000°,δ59.00000°,λ73.00000°. $M_0$1.10000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.9km az=145.1.
JMA Event type fe.
MOS Error ellipse: s-maj=11.4km s-min=8.5km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.1km az=170.0. Recorded [1 JMA] in southeastern Hokkaido.
IDC Error ellipse: s-maj=20.3km s-min=17.5km az=161.0.
(228) Near east coast of eastern Honshu
ISC V 12 01 47 27.5–1.1 36.30N–.04 140.90E–.05 30–8 3.7b 28 0-75
NIED V 12 01 47 00 36.30N 140.80E 41 3.7W **¶17203447**
ISCJB V 12 01 47 26.9–.58 36.31N–.04 140.88E–.06 41–6 3.6b
JMA V 12 01 47 27.8–.10 36.30N 140.82E 43–1 3.7
IDC V 12 01 47 29.1–1.9 36.23N 140.83E 43–19 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ5.00000°,λ-53.00000°. NP2:ϕ_s268.00000°,δ86.00000°,λ-93.00000°. $M_0$3.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.8km az=8.8.
JMA Event type fe.
IDC Error ellipse: s-maj=23.6km s-min=14.8km az=90.0.
(228) Near east coast of eastern Honshu
JMA V 12 01 50 09.9–.10 36.18N 141.02E 39–1 3.5 ¶600612186
JMA Event type fe.
(99) Northern Colombia
ISC V 12 03 27 50.3–.82 6.88N–.03 73.57W–.03 13–5 3.4b 34 0-150
ISCJB V 12 03 27 51.1–.50 6.88N–.03 73.57W–.03 22–5 3.4b **¶16709661**
RSNC V 12 03 27 51.6–1.0 6.89N 73.55W 14–4 3.6L
NEIC V 12 03 27 51.6 6.89N 73.55W 14 3.6L,3.5b
IDC V 12 03 27 52.6–4.7 6.83N 73.16W 58–47 3.4,3.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=161.2.
RSNC Error ellipse: s-maj=2.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Felt at Bucaramanga. After RSNC.
IDC Error ellipse: s-maj=48.0km s-min=30.2km az=41.0.
(706) Northern Sumatera
ISC V 12 07 41 09.3–.66 5.18N–.05 94.69E–.05 71–5 4.7b 219 2-142
IDC V 12 07 41 00.5–.67 5.15N 94.70E 0 4.6,4.5b **¶16506400**
NEIC V 12 07 41 06.0–.32 5.14N 94.60E 35 4.8b,4.5b
ISCJB V 12 07 41 07.3–.58 5.19N–.03 94.75E–.03 63–5 4.7b,4.5b
MOS V 12 07 41 07.0–1.1 5.27N 94.83E 57 5.0b,4.5b
DJA V 12 07 41 08.9–1.5 5N–3.0 95E–5.0 35–15 5.7b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.
ISCJB Event type fe.
(706) Northern Sumatera
ISC V 12 08 04 31.8–.41 5.34N–.05 94.27E–.05 46 4.6b,3.9s 178 2-146
ISCJB V 12 08 04 29.8–.27 5.27N–.04 94.23E–.03 46 4.6b,3.9s **¶16506401**
MOS V 12 08 04 31.2–.94 5.30N 94.31E 60 4.8b,3.9s
NEIC V 12 08 04 32.6–.65 5.34N 94.31E 54–6 4.8b,3.9s
IDC V 12 08 04 32.2–.74 5.36N 94.30E 49–7 4.4,4.3
DJA V 12 08 04 38.2–.80 5N–3.0 95E–8.0 77–8 6.0,5.2b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.
(227) Eastern Honshu
JMA V 12 09 51 24.3 37.00N 140.79E 10–1 3.7 ¶603241698
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s204.00000°,δ46.00000°,λ-88.00000°. NP2:ϕ_s20.00000°,δ44.00000°,λ-92.00000°. Principal axes: T Plg1.0000°,Azm292.0000°; N Plg2.0000°,Azm22.0000°; P Plg88.0000° ,Azm170.0000°
(224) Hokkaido region
ISC V 12 10 25 48.3–1.4 42.51N–.07 145.70E–.05 44–13 3.7b 50 1-84
NIED V 12 10 25 00 42.60N 145.60E 47 3.9W **¶17203472**
MOS V 12 10 25 46.5–1.1 42.46N 145.63E 52 4.1b
JMA V 12 10 25 47.9–.10 42.56N 145.64E 58–2 4.1
ISCJB V 12 10 25 47.4–.81 42.53N–.05 145.67E–.05 51–7 3.8b
SKHL V 12 10 25 49.1–.80 42.60N 145.65E 62–4 4.7b
IDC V 12 10 25 50.0–2.9 42.47N 145.63E 63–26 3.9L,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ37.00000°,λ43.00000°. NP2:ϕ_s105.00000°,δ66.00000°,λ119.00000°. $M_0$6.88000×10^{14}
MOS Error ellipse: s-maj=22.1km s-min=11.7km az=78.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.6km az=147.0.
IDC Error ellipse: s-maj=20.6km s-min=18.4km az=93.0.
(162) South Island
WEL V 12 12 11 36.8–.14 43.52S 172.70E 11–0 3.6L ¶16509192
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(134) Off coast of central Chile
ISC V 12 12 13 06.8–.32 35.72S–.04 73.36W–.06 35 4.9b,4.4s 218 1-178
GUC V 12 12 13 03.9–.34 35.75S 73.43W 46–1 5.1L,4.4s **¶16506441**
ISCJB V 12 12 13 05.9–.18 35.71S–.03 73.26W–.04 33 4.7b,4.4s
MOS V 12 12 13 06.2–1.1 35.68S 73.31W 33 5.1b,4.4s
IDC V 12 12 13 08.4–2.7 35.66S 73.29W 42–25 4.7L,4.4
NEIC V 12 12 13 08.1–.69 35.66S 73.25W 37–6 4.9b,4.4
ISC Event type fe.
GUC Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=154.5.
MOS Error ellipse: s-maj=22.9km s-min=9.6km az=99.7.
IDC Error ellipse: s-maj=25.2km s-min=13.9km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.0km az=85.0. Felt [IV] at Hualpen; [III] at Concepcion and Talcahuano; [II] at Arauco, Coronel and San Pedro de la Paz.
(228) Near east coast of eastern Honshu
ISC V 12 12 41 21.8–1.7 38.36N–.05 142.0E–.10 60–10 4.0b 33 1-46
NIED V 12 12 41 00 38.40N 141.90E 68 3.7W **¶17203478**
ISCJB V 12 12 41 21.0–.91 38.36N–.04 141.95E–.10 71–5 3.9b
IDC V 12 12 41 21.4–3.0 38.41N 142.20E 71–22 4.1,3.8
JMA V 12 12 41 22.6–.10 38.37N 141.87E 65–1 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ34.00000°,λ14.00000°. NP2:ϕ_s43.00000°,δ82.00000°,λ123.00000°. $M_0$4.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.6km az=16.7.
IDC Error ellipse: s-maj=42.5km s-min=19.2km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC V 12 15 26 15.2–.61 36.36N–.03 141.04E–.04 28–3 4.5b,3.6s 221 0-147
NIED V 12 15 26 00 36.30N 141.10E 35 4.4W,3.6s **¶16509464**
MOS V 12 15 26 14.3–1.2 36.34N 141.11E 37 4.6b,3.6s
JMA V 12 15 26 15.2–.10 36.30N 141.03E 46–2 4.3,3.6s
ISCJB V 12 15 26 15.0–.46 36.34N–.02 141.09E–.04 43–3 4.4b,3.6s
NEIC V 12 15 26 17.6–.63 36.35N 141.01E 50–5 4.6b,3.6s
IDC V 12 15 26 18.4–1.6 36.26N 141.01E 58–15 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ19.00000°,λ180.00000°. NP2:ϕ_s11.00000°,δ90.00000°,λ71.00000°. $M_0$4.76000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.3km az=111.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=11.9.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=5.0km az=135.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=13.0km s-min=8.8km az=62.0.
(227) Eastern Honshu
JMA V 12 15 48 03.2 37.10N 140.83E 7 2.9 ¶600612606
JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**V**	**12 16 20 59.2–.45**	**39.65N–.03**	**142.22E–.04**	**50–3**	**4.8b,3.9s**	**439**	**0-145**	
NIED	V	12 16 20 00	39.70N	142.10E	47	4.8W,3.9s			**¶16506975**
MOS	V	12 16 20 58.9–.95	39.77N	142.04E	52	5.1b,3.9s			
ISCJB	V	12 16 20 58.4–.32	39.65N–.02	142.15E–.03	54–2	4.8b,3.9s			
JMA	V	12 16 20 59.3	39.66N	142.14E	49–1	4.7,3.9s			
IDC	V	12 16 21 00.9–1.6	39.65N	142.01E	62–13	4.6,4.4			
NEIC	V	12 16 21 00.9–.56	39.66N	142.02E	63–5	4.7b,4.4			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ17.00000°,λ117.00000°. NP2:ϕ_s8.00000°,δ75.00000°,λ82.00000°. M_o1.78000×10^{16}

MOS Error ellipse: s-maj=6.6km s-min=4.1km az=108.7.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=30.2.

JMA Event type fe.

IDC Error ellipse: s-maj=13.2km s-min=10.2km az=107.0.

NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.1km az=124.0. Recorded [3 JMA] in Iwate and Miyagi.

(40) California-Nevada border region

ISC	**V**	**12 16 23 47.8–1.1**	**38.39N–.02**	**118.72W–.02**	**2–9**	**3.1s**	**151**	**0-50**	
NEIC	V	12 16 23 49.0	38.42N	118.72W	0	4.1L,3.9W			**¶16506976**
IDC	V	12 16 23 48.7–.94	38.44N	118.80W	0	3.8,3.8L			

ISC Event type fe.

NEIC Event type fe. Felt [III] at Hawthorne. Also felt at Carson City. After REN. Moment Tensor Solution. s78 Moment tensor: Scale 10^{14}Nm; M_{rr}-9.19 $M_{\theta\theta}$1.51 $M_{\phi\phi}$7.68 $M_{r\theta}$0.17 $M_{\theta\phi}$4.42 $M_{\phi r}$-1.08 Best double couple: NP1:ϕ_s212.00000°,δ43.00000°,λ-84.00000°. NP2:ϕ_s23.00000°,δ48.00000°,λ-96.00000°. Principal axes: T 10.0000,Plg3.0000°,Azm117.0000° ; N -0.7000,Plg4.0000°,Azm27.0000°; P -9.3000,Plg85.0000°,Azm239.0000° M_o9.70000×10^{14}

IDC Error ellipse: s-maj=8.9km s-min=6.7km az=20.0.

(460) Wyoming

ISC	**V**	**12 18 39 09.5–.95**	**43.69N–.05**	**105.29W–.05**	**0**		**27**	**1-20**	
IDC	V	12 18 39 07.0–2.2	43.41N	105.28W	0	3.7,3.5L			**¶17203494**
ISCJB	V	12 18 39 09.2–.50	43.66N–.05	105.26W–.06	0	3.7,3.5L			
NEIC	V	12 18 39 10.6–.46	43.64N	105.27W	0	3.0L,3.5L			

ISC Event type sm.

IDC Error ellipse: s-maj=48.8km s-min=9.3km az=154.0.

ISCJB Event type fm. Error ellipse: s-maj=6.8km s-min=6.1km az=156.3.

NEIC Event type fm. Error ellipse: s-maj=6.5km s-min=5.7km az=154.0. 75 km [46 miles] SSE of Gillette. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC	**V**	**12 19 52 19.0–.87**	**35.80N–.04**	**140.73E–.08**	**48–8**	**3.6b**	**24**	**0-75**	
NIED	V	12 19 52 00	35.70N	140.80E	50	4.0W			**¶600612722**
ISCJB	V	12 19 52 17.5–.62	35.82N–.04	140.81E–.10	57–4	3.6b,2.8s			
IDC	V	12 19 52 18.7–2.7	35.85N	140.81E	52–21	3.7,3.5			
JMA	V	12 19 52 18.4–.10	35.75N	140.66E	49–1	3.4,3.5			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ23.00000°,λ26.00000°. NP2:ϕ_s3.00000°,δ80.00000°,λ111.00000°. M_o1.25000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.2km az=172.7.

IDC Error ellipse: s-maj=35.8km s-min=12.1km az=82.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**12 20 03 04.7–.71**	**38.81N–.05**	**142.03E–.08**	**51**	**3.8b**	**33**	**0-81**	
NIED	V	12 20 03 00	38.80N	142.10E	50	3.9W			**¶17203500**
ISCJB	V	12 20 03 02.9–.56	38.83N–.05	142.12E–.07	51	3.8b,2.8s			
JMA	V	12 20 03 03.8–.10	38.84N	142.10E	44–1	3.8,2.8s			
IDC	V	12 20 03 05.7–2.2	38.82N	142.07E	60–19	3.8,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ25.00000°,λ65.00000°. NP2:ϕ_s21.00000°,δ68.00000°,λ101.00000°. M_o7.71000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.8km az=34.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=20.7km s-min=13.1km az=109.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**12 20 24 34.9–2.1**	**38.60N–.06**	**142.1E–.10**	**45–15**	**3.5b**	**22**	**1-73**	
NIED	V	12 20 24 00	38.60N	141.90E	47	3.6W			**¶17203503**
IDC	V	12 20 24 23.8–4.7	38.53N	143.12E	0	3.8b,3.7			
ISCJB	V	12 20 24 36.0–1.4	38.65N–.06	141.9E–.10	54–6	3.6b,3.7			
JMA	V	12 20 24 36.6–.10	38.64N	141.91E	48–1	3.8,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ22.00000°,λ57.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ102.00000°. M_o3.30000×10^{14}

IDC Error ellipse: s-maj=84.5km s-min=37.7km az=126.0.

ISCJB Event type fe. Error ellipse: s-maj=19.7km s-min=7.7km az=16.5.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**12 20 52 10.4–.71**	**35.55N–.05**	**140.07E–.06**	**72–6**	**4.3b**	**69**	**0-148**	
NIED	V	12 20 52 00	35.60N	140.10E	65	4.4W			**¶16560045**
ISCJB	V	12 20 52 09.3–.42	35.55N–.04	140.08E–.06	78–3	4.2b			
NEIC	V	12 20 52 09.1–.80	35.58N	140.14E	60–7	4.6b			
JMA	V	12 20 52 09.7–.30	35.66N	140.06E	70–3	4.1			
IDC	V	12 20 52 10.7–1.4	35.50N	139.95E	72–14	4.2,3.9			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ44.00000°,λ20.00000°. NP2:ϕ_s29.00000°,δ76.00000°,λ132.00000°. M_o4.20000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.1km az=158.2.

NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.9km az=83.0. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama and Tokyo.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000°,δ76.00000°,λ106.00000°. NP2:ϕ_s129.00000°,δ21.00000°,λ42.00000°. Principal axes: T Plg56.0000°,Azm290.0000° ; N Plg16.0000°,Azm175.0000°; P Plg29.0000°,Azm76.0000°

IDC Error ellipse: s-maj=17.3km s-min=9.6km az=75.0.

(210) South of Mariana Islands

ISC	**V**	**12 22 22 08.8–.53**	**12.38N–.03**	**144.14E–.03**	**20–2**	**5.3b,5.2s**	**883**	**1-173**	
ISCJB	V	12 22 22 05.5–.85	12.41N–.02	143.96E–.02	3–5	5.3b,5.2s			**¶16873146**
BJI	V	12 22 22 05.0	12.32N	144.15E	9	5.3b,5.3s			
IDC	V	12 22 22 06.9–1.6	12.33N	144.07E	10–9	5.0,5.0			
MOS	V	12 22 22 08.5–.97	12.34N	144.08E	33	5.6b,5.1s			
GCMT	V	12 22 22 08.0–.10	12.19N	143.98E	18–0	5.4W,5.1s			
NEIC	V	12 22 22 08.0–.61	12.37N	143.97E	12–3	5.4b,5.2s			
DJA	V	12 22 22 12.9–.60	12N–3.0	144E–4.0	43–7	6.2,5.9b			

ISC Event type fe.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c186; s108,c212;Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.38±.03 $M_{\theta\theta}$-1.10±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$0.35±.04; $M_{\theta\phi}$-1.02±.02; $M_{\phi r}$0.61±.05; Best double couple: NP1:ϕ_s43.00000°,δ57.00000°,λ73.00000°. NP2:ϕ_s252.00000°,δ36.00000°,λ114.00000°. Principal axes: T 1.5800,Plg72.0000°,Azm272.0000° ; N 0.3370,Plg14.0000°,Azm52.0000°; P -1.9110,Plg11.0000°,Azm145.0000° M_o1.74500×10^{17}

NEIC Event type fe. Felt at Merizo.

(228) Near east coast of eastern Honshu

ISC	**V**	**12 22 36 06.9–1.0**	**36.60N–.05**	**140.66E–.05**	**10–6**	**3.5b**	**23**	**0-78**	
ISCJB	V	12 22 36 06.3–1.0	36.59N–.05	140.73E–.07	13–4	3.5b			**¶16507992**
IDC	V	12 22 36 06.2–.94	36.82N	140.62E	0	3.8,3.6			
JMA	V	12 22 36 08.4	36.67N	140.60E	6–1	3.6,3.6			

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.9km az=41.7.

IDC Error ellipse: s-maj=22.6km s-min=18.9km az=92.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s351.00000°,δ53.00000°,λ-90.00000°. NP2:ϕ_s171.00000°,δ37.00000°,λ-90.00000°. Principal axes: T Plg8.0000°,Azm81.0000°; N Plg0.0000°,Azm171.0000°; P Plg82.0000° ,Azm261.0000°

(87) Haiti region

ISC	**V**	**12 22 51 11.7–.65**	**18.34N–.07**	**72.94W–.04**	**6**	**3.6b**	**41**	**1-74**	
ISCJB	V	12 22 51 10.0–.37	18.29N–.04	72.95W–.03	6	3.5b			**¶16510405**
NEIC	V	12 22 51 12.1–.64	18.43N	72.94W	10	3.9W			
IDC	V	12 22 51 13.2–1.6	18.60N	72.98W	0	3.9,3.7			

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=159.5.

NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=7.5km az=180.0. Felt at Grand-Goave. Moment Tensor Solution. s10 Moment tensor: Scale 10^{14}Nm; M_{rr}4.77 $M_{\theta\theta}$-2.79 $M_{\phi\phi}$-1.98 $M_{r\theta}$0.16 $M_{\theta\phi}$7.35 $M_{\phi r}$2.63 Best double couple: NP1:ϕ_s348.00000°,δ66.00000°,λ141.00000°. NP2:ϕ_s96.00000°,δ55.00000°,λ31.00000°. Principal axes: T 6.9800,Plg45.0000° ,Azm308.0000°; N 2.9600,Plg45.0000°,Azm141.0000°; P -9.9400,Plg7.0000°,Azm44.0000° M_o8.80000×10^{14}

IDC Error ellipse: s-maj=45.3km s-min=32.8km az=38.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**12 23 35 54.8–2.3**	**36.1N–.40**	**140.04E–.09**	**51–10**	**3.4b**	**12**	**0-92**	
NIED	V	12 23 35 00	36.20N	140.10E	68	3.8W			**¶17203514**
IDC	V	12 23 35 50.7–2.8	36.84N	140.19E	0	3.7,3.5			
ISCJB	V	12 23 35 54.6–1.5	36.2N–.40	140.0E–.10	58–5	3.3b,3.5			
JMA	V	12 23 35 55.4–.10	36.17N	140.10E	50–1	3.9,3.5			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ26.00000°,λ148.00000°. NP2:ϕ_s58.00000°,δ77.00000°,λ68.00000°. M_o5.06000×10^{14}

IDC Error ellipse: s-maj=70.8km s-min=32.9km az=165.0.

ISCJB Event type fe. Error ellipse: s-maj=74.1km s-min=10.8km az=9.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s42.00000°,δ73.00000°,λ85.00000°. NP2:ϕ_s238.00000°,δ18.00000°,λ105.00000°. Principal axes: T Plg62.0000°,Azm305.0000° ; N Plg5.0000°,Azm44.0000°; P Plg28.0000°,Azm136.0000°

(210) South of Mariana Islands

ISC	**V**	**13 01 04 39.2–.52**	**12.43N–.03**	**144.14E–.03**	**23–3**	**5.5b,5.2s**	**1007**	**1-173**	
BJI	V	13 01 04 32.0	12.17N	144.45E	10	5.4b,5.4s			**¶16507996**
ISCJB	V	13 01 04 35.7–.69	12.46N–.02	143.98E–.02	7–4	5.4b,5.2s			
NEIC	V	13 01 04 36.8–2.1	12.43N	143.99E	6–13	5.6b,5.5W			
GCMT	V	13 01 04 36.8–.10	12.23N	144.08E	19–0	5.5W,5.5W			
IDC	V	13 01 04 37.4–1.5	12.45N	143.97E	10–8	5.1,5.1			
MOS	V	13 01 04 38.6–.89	12.38N	144.05E	33	5.7b,5.2s			
NEIC	V	13 01 04 39.0–.00	12.45N	144.60E	18	5.7b,5.2s			
DJA	V	13 01 04 44.0–.50	13N–4.0	144E–5.0	67–8	7.0,6.0b			

ISC Event type fe.

ISCJB Event type fe.

NEIC Event type fe. Felt [II] at Santa Rita. Also felt at Apra Harbor, Barrigada, Hagatna Heights, Mangilao, Talofofo and Yigo.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s98,c185; s115,c256;Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46±.03 $M_{\theta\theta}$-0.82±.02; $M_{\phi\phi}$-0.64±.02; $M_{r\theta}$0.53±.05; $M_{\theta\phi}$-1.17±.02; $M_{\phi r}$0.87±.05; Best double couple: NP1:ϕ_s37.00000°,δ61.00000°,λ78.00000°. NP2:ϕ_s240.00000°,δ31.00000°,λ110.00000°. Principal axes: T 1.7770,Plg71.0000°,Azm280.0000° ; N 0.3930,Plg10.0000°,Azm43.0000°; P -2.1700,Plg15.0000°,Azm136.0000° M_o1.97400×10^{17}

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.30 $M_{\theta\phi}$-1.30 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s79.00000°,δ65.00000°,λ129.00000°. NP2:ϕ_s196.00000°,δ45.00000°,λ36.00000°. Principal axes: T 2.3000,Plg52.0000°,Azm36.0000°; N -0.3000,Plg34.0000°,Azm240.0000° ; P -2.0000,Plg11.0000°,Azm142.0000° M_o2.00000×10^{17}

(88) Dominican Republic region

ISC	**V**	**13 01 19 20.0–.53**	**19.61N–.04**	**70.43W–.04**	**25**	**3.7b**	**69**	**1-74**	
ISCJB	V	13 01 19 18.4–.30	19.64N–.03	70.36W–.03	25	3.7b			**¶16580976**
IDC	V	13 01 19 18.6–.98	19.76N	70.14W	0	4.1,3.9			
NEIC	V	13 01 19 20.0–2.4	19.55N	70.46W	23–21	3.8b,3.9			

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=20.1.

IDC Error ellipse: s-maj=28.6km s-min=15.2km az=32.0.

NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=5.1km az=185.0. Felt [III] at San Francisco de Macoris and Santiago; [II] at Jarabacoa, Santo Domingo and Sosua. Also felt at Azua, Baitoa, Mao, Moca and Tamboril.

(92) Leeward Islands

TRN	**V**	**13 02 10 56.8**	**17.19N**	**61.63W**	**23**	**4.0**			
NEIC	V	13 02 10 58.4	17.13N	61.74W	27	4.0			**¶17324851**

TRN Event type fe. Felt Antigua MMI II.

NEIC Event type fe. Felt [II] at Saint John's, Antigua. Also felt at Carlisle and Potters Village. After TRN.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 02 29 48.8–.65**	**38.68N–.06**	**142.08E–.07**	**41**	**3.8b**	**33**	**1-145**	
NIED	V	13 02 29 00	38.70N	142.20E	44	3.9W			**¶16560047**
ISCJB	V	13 02 29 47.3–.52	38.68N–.04	142.21E–.05	41	3.8b			
JMA	V	13 02 29 47.8–.10	38.66N	142.17E	38–2	3.9			
IDC	V	13 02 29 51.1–2.3	38.67N	142.05E	63–19	3.8,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ30.00000°,λ55.00000°. NP2:ϕ_s17.00000°,δ66.00000°,λ109.00000°. M_o8.11000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.2km az=142.3.

JMA Event type fe.

IDC Error ellipse: s-maj=20.4km s-min=14.1km az=127.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**13 02 45 05.6–.10**	**37.19N**	**141.40E**	**48–1**	**3.5**			**¶600612946**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(45) California-Baja California border region

ISC	**V**	**13 03 31 32.0–.75**	**32.67N–.02**	**115.77W–.02**	**16–3**		**91**	**0-7**	
IASPE	V	13 03 31 32.1–.82	32.68N–.03	115.79W–.02	16–5				**¶16719703**
ISCJB	V	13 03 31 32.3–.36	32.68N–.02	115.77W–.02	14–2				
ECX	V	13 03 31 33.6–.69	32.65N	115.79W	3	3.6L,3.4			
MEX	V	13 03 31 33.4–.93	32.91N	115.80W	17–16	3.7,3.4			
NEIC	V	13 03 31 33.2	32.66N	115.79W	14	3.6L,3.4			

ISC Event type fe.

IASPE Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=160.0. GT5 selection from ISC bulletin. GT5 identified by Bond¨jr and McLaughlin (2009) selection criteria. Bond¨jr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.

ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.6km az=25.7.

ECX Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.

MEX Error ellipse: s-maj=14.8km s-min=5.0km az=-1.0.

NEIC Event type fe. Felt [III] at El Centro. Also felt at Calexico, Coachella and Imperial. Felt at Mexicali, Baja California. After PAS.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 03 47 36.2–2.0**	**37.55N–.04**	**141.89E–.06**	**16–12**	**3.4b**	**27**	**1-146**	
NIED	V	13 03 47 00	37.60N	141.80E	44	3.7W			**¶17203521**
ISCJB	V	13 03 47 34.8–1.3	37.54N–.04	141.97E–.07	15–8	3.4b			
IDC	V	13 03 47 34.1–.98	37.53N	141.98E	0	3.7,3.6L			
JMA	V	13 03 47 37.5–.10	37.58N	141.84E	32–3	3.8,3.6L			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ17.00000°,λ70.00000°. NP2:ϕ_s336.00000°,δ74.00000°,λ96.00000°. M_o3.45000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.4km az=24.0.

IDC Error ellipse: s-maj=32.0km s-min=19.7km az=130.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(548) Poland

ISC	**V**	**13 03 59 06.4–.29**	**51.49N–.02**	**16.11E–.02**	**0**	**4.4b,4.4s**	**776**	**1-151**	
ISCJB	V	13 03 59 04.7–.13	51.47N–.01	16.14E–.02	0	4.4b,4.3s			**¶16508002**
LDG	V	13 03 59 04.9–.09	51.51N	16.25E	1	4.5L,4.3s			
MOS	V	13 03 59 05.3–1.7	51.51N	15.94E	10	4.4b,4.3s			
CSEM	V	13 03 59 06.6–.07	51.47N	16.13E	0	4.5L,4.4b			
IPEC	V	13 03 59 06.0–.30	51.52N	16.31E	0	3.7L,4.4b			
WAR	V	13 03 59 07.8	51.46N	16.16E	1	3.7W,4.4b			
IDC	V	13 03 59 07.3–.38	51.46N	16.00E	0	4.2s,4.2			
STR	V	13 03 59 07.0–.50	51.54N	16.08E	5	4.7L,4.2			
PRU	V	13 03 59 07.3	51.46N	16.19E	0	4.5,4.2			
BGR	V	13 03 59 08.0–.40	51.41N	16.18E	1	4.1L,4.2			
NEIC	V	13 03 59 08.0–.16	51.41N	16.18E	5	4.5b,4.4L			
BNS	V	13 03 59 10.1–.82	51.52N	16.00E	5	3.9L,4.4L			
UPP	V	13 03 59 11.1–2.8	51.76N	15.84E	0	3.4L,4.4L			

ISC Event type sr.

ISCJB Event type sr. Error ellipse: s-maj=1.5km s-min=1.4km az=165.9.

LDG Event type sr. Error ellipse: s-maj=2.4km s-min=1.6km az=175.0. Suspected Mining induced.

MOS Error ellipse: s-maj=4.6km s-min=3.0km az=70.2.

CSEM Event type ki. Error ellipse: s-maj=2.0km s-min=1.8km az=149.0.

IPEC Event type ki. Error ellipse: s-maj=3.2km s-min=1.7km az=67.0.

IDC Error ellipse: s-maj=7.6km s-min=5.6km az=89.0.

STR Event type ke.

PRU Event type ki. Felt In Harrachov.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=3.3km az=17.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.6km az=139.0. Felt at Lubin.
BNS Event type ke.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 07 49 33.5–1.5**	**37.75N–.04**	**141.91E–.09**	**49–14**	**3.7b**	**42**	**1-89**
NIED	V	13 07 49 00	37.80N	141.80E	41	4.0W		**¶17203531**
ISCJB	V	13 07 49 33.0–.78	37.76N–.03	141.83E–.08	64–6	3.7b		
JMA	V	13 07 49 34.1	37.77N	141.78E	49–1	4.2		
IDC	V	13 07 49 35.9–2.3	37.79N	141.67E	72–21	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ38.00000°,λ81.00000°. NP2:ϕ_s37.00000°,δ52.00000°,λ97.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.2km az=15.1.
JMA Event type fe.
IDC Error ellipse: s-maj=25.4km s-min=16.0km az=93.0.

(227) Eastern Honshu

ISC	**V**	**13 08 19 41.9–.87**	**37.09N–.03**	**140.73E–.04**	**9–5**	**3.6b**	**26**	**0-91**
NIED	V	13 08 19 00	37.10N	140.70E	5	3.7W		**¶17203535**
ISCJB	V	13 08 19 41.3–.90	37.07N–.03	140.84E–.05	15–6	3.6b		
JMA	V	13 08 19 41.9	37.09N	140.70E	6–1	3.5		
IDC	V	13 08 19 46.0–3.9	36.99N	140.82E	38–36	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ23.00000°,λ-109.00000°. NP2:ϕ_s226.00000°,δ68.00000°,λ-82.00000°. $M_0$3.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.0km az=178.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s19.00000°,δ49.00000°,λ-99.00000°. NP2:ϕ_s212.00000°,δ41.00000°,λ-80.00000°. Principal axes: T Plg4.0000°,Azm115.0000°; N Plg7.0000°,Azm25.0000°; P Plg82.0000° ,Azm235.0000°
IDC Error ellipse: s-maj=28.6km s-min=17.5km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 08 26 48.8–1.2**	**36.86N–.04**	**141.18E–.07**	**43–10**	**3.8b**	**34**	**0-78**
NIED	V	13 08 26 00	36.90N	141.10E	53	3.9W		**¶600613114**
ISCJB	V	13 08 26 47.9–.69	36.84N–.04	141.18E–.07	53–5	3.8b,2.2s		
JMA	V	13 08 26 49.7–.10	36.87N	141.06E	49–1	4.0,2.2s		
IDC	V	13 08 26 51.7–2.7	36.82N	140.98E	70–26	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ48.00000°,λ153.00000°. NP2:ϕ_s55.00000°,δ70.00000°,λ45.00000°. $M_0$8.69000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.0km s-min=16.6km az=78.0.

(162) South Island

WEL	**V**	**13 10 45 48.8–.09**	**43.57S**	**172.40E**	**5**	**3.5L**	**¶16509197**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 12 19 12.2–1.2**	**35.41N–.03**	**140.99E–.05**	**14–7**	**4.2b,3.3s**	**72**	**0-148**
NIED	V	13 12 19 00	35.40N	141.10E	11	4.1W,3.3s		**¶16510408**
IDC	V	13 12 19 09.4–.63	35.36N	140.92E	0	4.2,4.1		
ISCJB	V	13 12 19 11.8–.73	35.41N–.03	141.03E–.05	21–5	4.2b,3.3s		
JMA	V	13 12 19 11.7–.10	35.44N	141.04E	24–1	4.3,3.3s		
NEIC	V	13 12 19 15.2–.42	35.38N	140.96E	35	4.3b,3.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ43.00000°,λ-70.00000°. NP2:ϕ_s121.00000°,δ50.00000°,λ-108.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=14.2km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=8.2km az=152.0. Recorded [1 JMA] in Chiba.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 13 34 57.4–.74**	**37.77N–.04**	**141.94E–.06**	**24**	**3.7b**	**29**	**1-89**
NIED	V	13 13 34 00	37.80N	141.90E	41	3.8W		**¶17203547**
IDC	V	13 13 34 54.1–.76	37.70N	142.12E	0	3.9,3.8		
ISCJB	V	13 13 34 56.1–.55	37.78N–.04	142.02E–.05	24	3.7b,3.1s		
JMA	V	13 13 34 57.4–.10	37.76N	141.94E	31–3	3.9,3.1s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ36.00000°,λ-130.00000°. NP2:ϕ_s196.00000°,δ63.00000°,λ-65.00000°. $M_0$6.63000×10^{14}
IDC Error ellipse: s-maj=19.5km s-min=16.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=43.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 13 51 11.0–.99**	**35.80N–.04**	**141.03E–.06**	**24–6**	**4.0b,3.2s**	**52**	**0-148**
NIED	V	13 13 51 00	35.90N	141.10E	35	4.3W,3.2s		**¶17203548**
IDC	V	13 13 51 07.3–.56	35.72N	140.97E	0	4.1,4.0		
ISCJB	V	13 13 51 11.0–.89	35.77N–.03	141.04E–.05	33–6	4.0b,3.3s		
JMA	V	13 13 51 11.0–.10	35.81N	141.00E	28–1	4.2,3.3s		
NEIC	V	13 13 51 12.5–.42	35.76N	140.92E	35	4.4b,3.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ23.00000°,λ51.00000°. NP2:ϕ_s106.00000°,δ73.00000°,λ105.00000°. $M_0$2.89000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.6km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.7km az=173.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=8.4km az=162.0. Recorded [2 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 13 54 39.7–.00**	**35.81N–.06**	**140.93E–.08**	**25–6**	**3.7b**	**26**	**0-79**
IDC	V	13 13 54 35.3–.81	35.71N	141.04E	0	3.8,3.7		**¶600613330**
ISCJB	V	13 13 54 38.1–.96	35.78N–.04	141.04E–.10	30–5	3.7b,3.7		
JMA	V	13 13 54 39.0–.10	35.80N	140.99E	27–1	4.0,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=15.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.1km az=174.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 14 21 36.6–1.6**	**37.59N–.05**	**141.86E–.08**	**41–14**	**3.7b**	**43**	**1-146**
NIED	V	13 14 21 00	37.60N	141.70E	44	3.8W		**¶16560051**
ISCJB	V	13 14 21 37.1–.79	37.62N–.04	141.72E–.08	59–6	3.8b,3.1s		
JMA	V	13 14 21 38.0–.10	37.61N	141.69E	48–2	3.9,3.1s		
IDC	V	13 14 21 40.4–2.4	37.61N	141.59E	73–23	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ49.00000°,λ54.00000°. NP2:ϕ_s52.00000°,δ52.00000°,λ124.00000°. $M_0$5.24000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.9km az=20.6.
JMA Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=16.4km az=85.0.

(121) Off coast of northern Chile

ISC	**V**	**13 14 45 35.2–1.3**	**25.68S–.04**	**70.8W–.10**	**35**		**21**	**1-18**
ISCJB	V	13 14 45 32.9–.92	25.75S–.03	70.7W–.20	35			**¶16684764**
NEIC	V	13 14 45 33.0	25.54S	71.12W	18	4.0L		
GUC	V	13 14 45 33.6–.33	25.54S	71.12W	18–3	4.0L		
SJA	V	13 14 45 35.9–.81	26.03S	70.58W	40–42	4.0L,3.4W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=19.9km s-min=4.5km az=178.2.
NEIC Event type fe. Felt [II] at Copiapo, Taltal and Tierra Amarilla. After GUC.
GUC Error ellipse: s-maj=3.5km s-min=5.8km az=-1.0.
SJA Error ellipse: s-maj=27.7km s-min=18.4km az=-1.0.

(99) Northern Colombia

ISC	**V**	**13 15 18 24.2–.43**	**6.74N–.03**	**73.00W–.03**	**160–3**	**4.9b**	**976**	**0-154**
CASC	V	13 15 18 19.3–27	6.23N	72.74W	154–239	4.9b		**¶16510409**
ISCJB	V	13 15 18 23.3–.17	6.75N–.02	72.99W–.02	166–1	4.9b		
IDC	V	13 15 18 24.2–.63	6.73N	72.95W	158–5	4.8,4.5		
NEIC	V	13 15 18 24.6–.12	6.72N	72.93W	164	4.9b,4.5		
RSNC	V	13 15 18 25.9–.99	6.78N	73.12W	152–4	5.2L,4.5		
FUNV	V	13 15 18 26.2	6.86N	73.03W	170	5.0W,4.5		

ISC Event type fe.
CASC Error ellipse: s-maj=151.7km s-min=122.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=33.9.
IDC Error ellipse: s-maj=9.7km s-min=6.6km az=115.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.4km az=85.0. Felt [II] at Bogota and Bucaramanga. Also felt at Barichara, Contratacion, Floridablanca and Remedios.
RSNC Error ellipse: s-maj=3.5km s-min=5.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 16 28 02.9–1.1**	**36.76N–.04**	**140.46E–.04**	**6–7**	**4.4b**	**118**	**0-147**
NIED	V	13 16 28 00	36.70N	140.60E	5	4.2W		**¶16510214**
IDC	V	13 16 28 01.7–.60	36.72N	140.50E	0	4.3,4.1		
ISCJB	V	13 16 28 02.5–.54	36.76N–.03	140.54E–.04	14–3	4.4b,3.8s		
JMA	V	13 16 28 03.3	36.74N	140.59E	6–1	4.3,3.8s		
NEIC	V	13 16 28 07.3–.18	36.81N	140.46E	35	4.5b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ35.00000°,λ-75.00000°. NP2:ϕ_s165.00000°,δ56.00000°,λ-101.00000°. $M_0$1.88000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=14.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=40.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ51.00000°,λ-80.00000°. NP2:ϕ_s177.00000°,δ40.00000°,λ-103.00000°. Principal axes: T Plg6.0000°,Azm96.0000°; N Plg8.0000°,Azm187.0000°; P Plg80.0000° ,Azm330.0000°
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=147.0. Recorded [3 JMA] in Ibaraki.

(502) Arkansas

ISC	**V**	**13 17 14 32.3–.87**	**35.26N–.02**	**92.37W–.02**	**5–5**		**82**	**0-6**
ISCJB	V	13 17 14 31.5–.32	35.27N–.02	92.36W–.02	6–2			**¶16719706**
NEIC	V	13 17 14 32.1	35.26N	92.36W	4	2.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=8.2.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Benton and Quitman. After CERI.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 17 59 52.4–1.1**	**38.98N–.05**	**142.3E–.10**	**39–8**	**3.6b**	**17**	**0-59**
NIED	V	13 17 59 00	39.10N	142.40E	35	3.9W		**¶17203564**
ISCJB	V	13 17 59 51.4–1.3	39.00N–.05	142.3E–.10	45–14	3.5b,3.3s		
JMA	V	13 17 59 51.0–.10	39.08N	142.39E	32–2	3.9,3.3s		
IDC	V	13 17 59 53.5–2.2	38.96N	142.42E	49–24	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ41.00000°,λ36.00000°. NP2:ϕ_s318.00000°,δ68.00000°,λ125.00000°. $M_0$7.82000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=7.2km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=14.7km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 19 51 45.8–1.9**	**37.06N–.05**	**141.40E–.07**	**9–11**	**3.7b,3.0s**	**25**	**0-147**
NIED	V	13 19 51 00	37.00N	141.40E	8	3.9W,3.0s		**¶17203566**
ISCJB	V	13 19 51 46.0–1.3	37.04N–.04	141.43E–.09	24–7	3.6b,3.0s		
JMA	V	13 19 51 47.0–.10	37.05N	141.36E	31–1	4.0,3.0s		
IDC	V	13 19 51 51.6–2.0	37.00N	141.15E	49–19	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ37.00000°,λ-90.00000°. NP2:ϕ_s199.00000°,δ53.00000°,λ-90.00000°. $M_0$8.27000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.6km az=10.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=12.9km az=85.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 20 17 36.8–1.3**	**37.66N–.04**	**141.79E–.08**	**51–10**	**4.2b,3.6s**	**128**	**1-146**
NIED	V	13 20 17 00	37.70N	141.80E	53	4.2W,3.6s		**¶17203567**
ISCJB	V	13 20 17 35.7–.59	37.66N–.03	141.82E–.05	58–4	4.3b,3.3s		
JMA	V	13 20 17 36.7	37.66N	141.77E	45–2	4.3,3.3s		
NEIC	V	13 20 17 37.9–.58	37.71N	141.79E	60–5	4.4b,3.3s		
IDC	V	13 20 17 38.9–2.0	37.66N	141.69E	69–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ30.00000°,λ66.00000°. NP2:ϕ_s24.00000°,δ63.00000°,λ103.00000°. $M_0$1.94000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=21.6.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=121.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
IDC Error ellipse: s-maj=15.4km s-min=11.5km az=96.0.

(2) Southern Alaska

ISC	**V**	**13 20 30 42.4–.57**	**60.10N–.03**	**152.63W–.03**	**108–5**	**4.5b**	**244**	**0-148**
ISCJB	V	13 20 30 41.1–.15	60.10N–.02	152.63W–.04	112–1	4.4b		**¶16509652**
IDC	V	13 20 30 43.9–1.9	60.27N	152.73W	112–17	4.4,4.1		
NEIC	V	13 20 30 43.4	60.05N	152.61W	101	4.5b,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=143.9.
IDC Error ellipse: s-maj=15.7km s-min=10.0km az=11.0.
NEIC Event type fe. Felt [III] at Homer. Also felt at Anchorage, Clam Gulch, Girdwood, Kasilof, Kenai, Ninilchik, Pedro Bay and Soldotna. Felt widely on the Kenai Peninsula. After AEIC.

(717) Afghanistan-Tajikistan border region

ISC	**V**	**13 21 39 30.0–.29**	**36.55N–.03**	**71.02E–.03**	**237–2**	**4.8b**	**688**	**3-151**
ISCJB	V	13 21 39 28.1–.24	36.58N–.02	71.00E–.02	229–2	4.7b		**¶16509654**
MOS	V	13 21 39 28.8–.85	36.62N	71.06E	236	4.9b		
GCMT	V	13 21 39 29.8–.40	36.78N	70.92E	235–3	5.0W		
NEIC	V	13 21 39 29.8–.41	36.59N	71.01E	232–4	4.9b		
IDC	V	13 21 39 30.6–.56	36.57N	71.04E	243–5	5.0,4.4		
NNC	V	13 21 39 34.4–1.4	36.99N	71.05E	204–35	5.6,4.5b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=26.0.
MOS Error ellipse: s-maj=5.3km s-min=3.6km az=112.3.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s65,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.32±.16 $M_{\theta\theta}$0.22±.19; $M_{\phi\phi}$-2.54±.18; $M_{r\theta}$0.56±.15; $M_{\theta\phi}$1.02±.16; $M_{\phi r}$2.88±.16; Best double couple: NP1:ϕ_s4.00000°,δ71.00000° ,λ108.00000°. NP2:ϕ_s139.00000°,δ27.00000°,λ48.00000°. Principal axes: T 3.9030,Plg60.0000°,Azm300.0000°; N 0.0940,Plg17.0000°,Azm177.0000° ; P -3.9930,Plg23.0000°,Azm80.0000° $M_0$3.94800×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=167.0. Felt at Kabul, Charikar and Nuristan. Also felt at Rawalpindi, Pakistan and at Dushanbe, Tajikistan.
IDC Error ellipse: s-maj=7.4km s-min=6.0km az=165.0.
NNC Event type se. Error ellipse: s-maj=35.5km s-min=9.4km az=119.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 21 49 25.2–.66**	**35.96N–.03**	**141.10E–.04**	**14–3**	**4.8b,4.4s**	**363**	**0-152**
NIED	V	13 21 49 00	36.00N	141.20E	14	4.5W,4.4s		**¶16509656**
IDC	V	13 21 49 23.1–.43	35.96N	141.06E	0	4.7,4.7b		
ISCJB	V	13 21 49 24.8–.72	35.93N–.02	141.01E–.03	21–5	4.7b,4.4s		
NEIC	V	13 21 49 24.4–1.6	35.93N	140.99E	7–10	4.8b,4.4s		
JMA	V	13 21 49 25.2–.10	35.96N	141.10E	29–2	4.7,4.4s		
MOS	V	13 21 49 25.5–1.3	36.04N	141.13E	33	5.0b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ35.00000°,λ18.00000°. NP2:ϕ_s190.00000°,δ80.00000°,λ124.00000°. $M_0$6.71000×10^{15}
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=4.0km az=6.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=125.0. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.7km az=104.8.

(78) Costa Rica

ISC	**V**	**13 22 47 55.3–.36**	**10.11N–.03**	**84.19W–.03**	**77–2**	**5.5b**	**1650**	**0-165**
MOS	V	13 22 47 52.0–1.2	10.18N	84.21W	55	5.6b,5.1s		**¶602607319**
IDC	V	13 22 47 52.5–1.2	10.30N	84.12W	52–9	5.4,5.3		
CASC	V	13 22 47 53.9–7.4	10.02N	84.19W	74–15	5.3L,4.6		
NEIC	V	13 22 47 54.0	9.95N	84.31W	73	5.9W,5.9W		
ISCJB	V	13 22 47 54.9–.16	10.16N–.02	84.28W–.01	88–1	5.4b,5.9W		
GCMT	V	13 22 47 54.0–.10	10.01N	84.31W	85–0	6.0W,5.9W		
NEIC	V	13 22 47 55.0–.00	10.10N	84.26W	70	6.0W,5.9W		
BJI	V	13 22 47 56.5	10.10N	84.30W	96	5.5b,5.9W		

ISC Event type se.

MOS Error ellipse: s-maj=6.5km s-min=4.2km az=101.0.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=57.0.
CASC Error ellipse: s-maj=17.7km s-min=13.0km az=-1.0.
NEIC Event type fe. Felt [VI] at Santiago and Turrucares and [V] throughout the Valle Central. Felt in most of Costa Rica. Felt [II] at David, Panama. Felt widely in western Panama and at Bluefields and San Juan del Sur, Nicaragua. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After UCR. Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ65.00000°,λ10.00000°. NP2: ϕ_s31.00000°,δ81.00000°,λ155.00000°. Principal axes: T 1.0200,Plg24.0000°,Azm345.0000° ; N 0.0000,Plg63.0000°,Azm192.0000°; P -1.0200,Plg11.0000°,Azm80.0000° Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.03 $M_{\theta\theta}$5.94 $M_{\phi\phi}$-7.96 $M_{r\theta}$4.76 $M_{\theta\phi}$2.40 $M_{\phi r}$2.64 Best double couple: NP1:ϕ_s131.00000°,δ58.00000°,λ18.00000°. NP2: ϕ_s31.00000°,δ75.00000°,λ146.00000°. Principal axes: T 9.8000,Plg34.0000°,Azm347.0000° ; N -1.0700,Plg54.0000°,Azm190.0000°; P -8.7300,Plg11.0000°,Azm84.0000° $M_0$9.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ71.00000°,λ16.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ160.00000°. Principal axes: T Plg25.0000°,Azm352.0000°; N Plg0.0000°,Azm0.0000°; P Plg3.0000° ,Azm83.0000°
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=1.6km az=33.5.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c280; s131,c385;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}0.20±.01 $M_{\theta\theta}$0.76±.01; $M_{\phi\phi}$-0.96±.01; $M_{r\theta}$0.54±.01; $M_{\theta\phi}$0.27±.01; $M_{\phi r}$0.36±.01; Best double couple: NP1:ϕ_s33.00000°,δ78.00000°,λ146.00000°. NP2:ϕ_s131.00000° ,δ57.00000°,λ14.00000°. Principal axes: T 1.1740,Plg32.0000°,Azm347.0000° ; N -0.0990,Plg54.0000°,Azm196.0000°; P -1.0750,Plg14.0000°,Azm86.0000° $M_0$1.12500×10^{18}
NEIC Event type se. Moment Tensor Solution. s54 Moment tensor: Scale 10^{17}Nm; M_{rr}1.27 $M_{\theta\theta}$5.84 $M_{\phi\phi}$-7.11 $M_{r\theta}$5.29 $M_{\theta\phi}$1.45 $M_{\phi r}$2.34 Best double couple: NP1:ϕ_s36.00000°,δ77.00000° ,λ144.00000°. NP2:ϕ_s135.00000°,δ55.00000°,λ15.00000°. Principal axes: T 9.6900,Plg33.0000°,Azm349.0000°; N -1.9700,Plg52.0000°,Azm199.0000° ; P -7.7100,Plg14.0000°,Azm89.0000° $M_0$8.90000×10^{17}

(228) Near east coast of eastern Honshu

JMA	**V**	**13 23 17 10.5–.20**	**35.22N**	**140.22E**	**27–2**	**2.7**		**¶600613643**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**13 23 35 52.9–.22**	**37.40N–.03**	**141.46E–.03**	**39–1**	**5.8s,5.6b**	**1979**	**0-164**
NIED	V	13 23 35 00	37.30N	141.60E	41	6.0W,5.6b		**¶16509660**
BJI	V	13 23 35 47.8	37.31N	141.73E	35	6.0s,5.9		
MOS	V	13 23 35 50.1–1.1	37.37N	141.49E	33	5.9s,5.8b		
JMA	V	13 23 35 50.9–.10	37.33N	141.63E	41–2	5.9,5.8b		
ISCJB	V	13 23 35 51.9–.28	37.40N–.01	141.42E–.01	40–2	5.8s,5.6b		
GCMT	V	13 23 35 52.9–.10	37.31N	141.67E	41–0	6.1W,5.6b		
NEIC	V	13 23 35 52.9–.10	37.40N	141.34E	35	6.1W,6.0W		
IDC	V	13 23 35 53.6–1.7	37.38N	141.52E	51–15	5.7,5.7		
NEIC	V	13 23 35 53.0–.00	37.18N	141.80E	37	5.7,5.7		
NEIC	V	13 23 36 10.1–.00	37.58N	141.54E	39	5.7,5.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s18.00000°,δ68.00000°,λ89.00000°. $M_0$1.28000×10^{18}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=97.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=154.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c302; s138,c464;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}1.23±.01 $M_{\theta\theta}$0.14±.01; $M_{\phi\phi}$-1.09±.01; $M_{r\theta}$0.40±.01; $M_{\theta\phi}$-0.40±.01; $M_{\phi r}$1.06±.01; Best double couple: NP1:ϕ_s20.00000°,δ66.00000°,λ90.00000°. NP2:ϕ_s200.00000° ,δ24.00000°,λ89.00000°. Principal axes: T 1.6710,Plg69.0000°,Azm291.0000° ; N 0.0070,Plg0.0000°,Azm200.0000°; P -1.6790,Plg21.0000°,Azm110.0000° $M_0$1.67500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=141.0. Felt [III] at Tokyo. Also felt at Atsugi, Hachioji, Ichinoseki, Kishiwada, Motegi, Narita, Nikko, Sakado, Yokohama and Yokosuka. Recorded [4 JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.90000×10^{18} Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}7.30 $M_{\theta\theta}$-1.07 $M_{\phi\phi}$-6.23 $M_{r\theta}$3.67 $M_{\theta\phi}$-0.86 $M_{\phi r}$5.53 Best double couple: NP1:ϕ_s180.00000° ,δ25.00000°,λ67.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ100.00000°. Principal axes: T 10.2000,Plg66.0000°,Azm313.0000°; N -1.4000,Plg9.0000°,Azm201.0000° ; P -8.8000,Plg22.0000°,Azm107.0000° $M_0$9.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s171.00000°,δ18.00000°,λ57.00000°. NP2: ϕ_s25.00000°,δ75.00000°,λ100.00000°. Principal axes: T Plg59.0000°,Azm309.0000° ; N Plg0.0000°,Azm0.0000°; P Plg29.0000°,Azm107.0000°
IDC Error ellipse: s-maj=12.7km s-min=8.3km az=104.0.
NEIC Event type se. Moment Tensor Solution. s43 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-0.62 $M_{r\theta}$0.65 $M_{\theta\phi}$-0.31 $M_{\phi r}$1.37 Best double couple: NP1:ϕ_s26.00000° ,δ75.00000°,λ87.00000°. NP2:ϕ_s216.00000°,δ15.00000°,λ99.00000°. Principal axes: T 1.8200,Plg60.0000°,Azm292.0000°; N -0.1400,Plg2.0000°,Azm27.0000° ; P -1.6800,Plg29.0000°,Azm118.0000° $M_0$1.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}1.08 $M_{\theta\theta}$-0.31 $M_{\phi\phi}$-0.77 $M_{r\theta}$0.45 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.78 Best double couple: NP1:ϕ_s211.00000° ,δ25.00000°,λ90.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ90.00000°. Principal axes: T 1.4200,Plg70.0000°,Azm300.0000°; N -0.0700,Plg0.0000°,Azm30.0000° ; P -1.3400,Plg20.0000°,Azm120.0000° $M_0$1.40000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**V**	**13 23 40 36.0–1.1**	**37.29N–.04**	**141.74E–.05**	**19–4**	**4.4b**	**51**	**1-146**
JMA	V	13 23 40 38.9–.10	37.30N	141.62E	44–2	4.4		**¶16577297**
NEIC	V	13 23 40 39.4–1.6	37.32N	141.69E	45–14	4.6b		
IDC	V	13 23 40 40.6–2.4	37.18N	141.55E	58–23	4.3,4.2		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.8km s-min=10.9km az=120.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=18.3km s-min=13.7km az=94.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 00 25 10.4–1.9**	**37.24N–.04**	**141.79E–.05**	**23–13**	**4.3b**	**117**	**1-146**
ISCJB	V	14 00 25 10.3–1.0	37.24N–.03	141.75E–.04	33–6	4.2b		**¶600613665**
MOS	V	14 00 25 11.1–1.0	37.33N	141.71E	38	4.4b		
JMA	V	14 00 25 12.8–.10	37.30N	141.61E	45–2	4.3		
NEIC	V	14 00 25 13.0–.87	37.26N	141.70E	40–8	4.5b		
IDC	V	14 00 25 15.0–2.1	37.23N	141.52E	56–19	4.1,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=24.7.
MOS Error ellipse: s-maj=9.2km s-min=6.9km az=107.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.7km az=106.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=15.0km s-min=11.2km az=75.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**14 02 37 20.0–.10**	**35.45N**	**140.90E**	**24–1**	**3.7**		**¶600613730**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 03 39 27.2–1.9**	**37.41N–.04**	**141.75E–.06**	**11–11**	**3.7b**	**34**	**1-146**
NIED	V	14 03 39 00	37.50N	141.80E	5	3.7W		**¶600613751**
ISCJB	V	14 03 39 25.5–1.3	37.37N–.04	141.97E–.07	15–9	3.7b,3.2s		
IDC	V	14 03 39 25.9–.78	37.44N	141.83E	0	4.0,3.8		
JMA	V	14 03 39 28.0–.20	37.44N	141.84E	22–3	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ44.00000°,λ-146.00000°. NP2:ϕ_s82.00000°,δ67.00000°,λ-51.00000°. $M_0$3.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.5km az=24.6.
IDC Error ellipse: s-maj=20.9km s-min=17.9km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**14 05 16 52.5–.10**	**38.57N**	**142.02E**	**40–2**	**3.5**		**¶600613799**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 05 44 20.6–1.3**	**36.88N–.06**	**141.19E–.08**	**43–11**	**3.7b**	**37**	**0-64**
NIED	V	14 05 44 00	36.90N	141.10E	77	4.0W		**¶16529944**
ISCJB	V	14 05 44 19.8–.73	36.89N–.04	141.17E–.07	54–5	3.7b		
JMA	V	14 05 44 21.3–.10	36.92N	141.07E	50–1	3.8		
IDC	V	14 05 44 22.1–2.6	36.89N	141.06E	57–23	3.7,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ34.00000°,λ-125.00000°. NP2:ϕ_s88.00000°,δ63.00000°,λ-69.00000°. $M_0$1.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.4km az=32.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=14.9km az=124.0.

(391) Albania

ISC	**V**	**14 08 45 52.3–.92**	**41.69N–.01**	**20.91E–.01**	**14–6**	**4.2b,3.5s**	**739**	**0-122**
MOS	V	14 08 45 50.1–1.1	41.65N	20.75E	14	4.4b,3.5s		**¶602920614**
ATH	V	14 08 45 50.7	41.75N	20.95E	14–1	3.8L,3.5s		
IDC	V	14 08 45 50.1–.82	41.68N	20.84E	0	3.9,3.8		
ISCJB	V	14 08 45 51.1–.27	41.734N–.01	20.89E–.01	10–2	4.2b,3.7s		
PDG	V	14 08 45 51.4–.66	41.72N	20.94E	6–1	4.1,4.1L		
SKO	V	14 08 45 51.0	41.66N	20.87E	18	4.2L,3.8		
THE	V	14 08 45 51.5	41.71N	20.90E	2–0	3.9L,3.8		
TIR	V	14 08 45 51.8	41.85N	20.96E	14	3.9L,3.8		
CSEM	V	14 08 45 52.4–.07	41.70N	20.91E	10	4.3b,4.1W		
NEIC	V	14 08 45 52.8–.36	41.74N	20.81E	10	4.5b,4.2L		
BEO	V	14 08 45 52.4–.31	41.68N	20.92E	14–2	4.0,4.2L		
LDG	V	14 08 45 52.3–.13	41.74N	20.98E	10	4.1L,4.2L		
PRU	V	14 08 45 54.7	41.70N	20.68E	4	4.5,4.2L		

ISC Event type ke.
MOS Error ellipse: s-maj=5.7km s-min=3.6km az=109.2.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=176.0.
IDC Error ellipse: s-maj=15.4km s-min=11.2km az=27.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.3km az=156.7.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=307.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=60.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=180.0. Felt [IV] at Gostivar, [III] at Tetovo and [II] at Skopje. Also felt at Bogovinje, Kicevo, Kondovo, Negotino and Saraj. Felt at Pristina and Urosevac, Kosovo. Moment Tensor Solution. s15 Moment tensor: Scale 10^{15} Nm; M_{rr}-0.61 $M_{\theta\theta}$1.61 $M_{\phi\phi}$-1.00 $M_{r\theta}$-0.33 $M_{\theta\phi}$0.15 $M_{\phi r}$0.80 Best double couple: NP1: ϕ_s228.00000°,δ57.00000°,λ-156.00000°. NP2:ϕ_s125.00000°,δ70.00000°,λ-35.00000°. Principal axes: T 1.6600,Plg8.0000°,Azm179.0000°; N 0.0000,Plg50.0000°,Azm279.0000° ; P -1.6600,Plg39.0000°,Azm83.0000° $M_0$1.70000×10^{15}
BEO Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.1km s-min=2.3km az=1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 10 11 33.0–1.9**	**38.51N–.05**	**142.24E–.08**	**24–12**	**3.8b**	**29**	**1-76**
NIED	V	14 10 11 00	38.60N	142.10E	44	3.8W		**¶600613935**
JMA	V	14 10 11 35.1–.10	38.60N	142.16E	35–1	4.1		
IDC	V	14 10 11 36.9–2.5	38.52N	142.10E	52–22	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ59.00000°,λ144.00000°. NP2:ϕ_s88.00000°,δ59.00000°,λ37.00000°. $M_0$6.26000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.4km s-min=19.5km az=84.0.

(717) Afghanistan-Tajikistan border region

ISC	**V**	**14 10 21 34.9–.29**	**36.64N–.03**	**70.99E–.03**	**236–2**	**4.7b**	**586**	**3-150**
ISCJB	V	14 10 21 32.9–.26	36.64N–.02	71.01E–.02	225–2	4.6b		**¶16510268**
MOS	V	14 10 21 34.4–.98	36.65N	71.08E	243	4.8b		
NEIC	V	14 10 21 35.5–.17	36.64N	71.03E	242	4.8b		
IDC	V	14 10 21 36.1–.53	36.60N	71.00E	249–5	4.9,4.4		
NNC	V	14 10 21 37.1–1.1	36.92N	70.97E	219–6	5.5,4.3b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=141.7.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.8km az=142.0. Felt [II] at Kabul. Also felt at Baghlan, Charikar, Ishkashem and Nuristan.
IDC Error ellipse: s-maj=6.4km s-min=5.9km az=160.0.
NNC Event type se. Error ellipse: s-maj=10.1km s-min=5.9km az=159.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 10 52 57.7–1.3**	**35.62N–.06**	**141.02E–.08**	**33**		**15**	**0-56**
NIED	V	14 10 52 00	35.60N	141.00E	26	3.7W		**¶17203603**
IDC	V	14 10 52 53.2–4.0	35.51N	141.16E	0	3.5,3.4b		
ISCJB	V	14 10 52 56.1–1.2	35.64N–.07	141.1E–.10	33	3.5b,2.7s		
JMA	V	14 10 52 57.0–.20	35.64N	141.01E	22–1	3.6,2.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ34.00000°,λ-56.00000°. NP2:ϕ_s332.00000°,δ62.00000°,λ-111.00000°. $M_0$3.77000×10^{14}
IDC Error ellipse: s-maj=119.1km s-min=31.0km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=7.2km az=155.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(162) South Island

WEL	**V**	**14 13 01 40.8–.07**	**43.66S**	**172.36E**	**9–0**	**3.9L**		
NEIC	V	14 13 01 40.6	43.67S	172.37E	12	4.1b,4.0L		**¶16512064**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 13 46 49.7–1.2**	**36.72N–.05**	**140.63E–.05**	**4–9**	**3.5b**	**28**	**0-76**
NIED	V	14 13 46 00	36.70N	140.60E	5	3.4W		**¶17203610**
IDC	V	14 13 46 49.0–1.0	36.69N	140.64E	0	3.7,3.7		
ISCJB	V	14 13 46 49.2–.75	36.66N–.03	140.71E–.06	11–4	3.5b,3.7		
JMA	V	14 13 46 50.4	36.69N	140.61E	5	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ35.00000°,λ-57.00000°. NP2:ϕ_s172.00000°,δ61.00000°,λ-111.00000°. $M_0$1.35000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=17.5km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.3km az=25.8.
JMA Event type fe.

(584) South Africa

ISC	**V**	**14 14 10 43.1–1.5**	**32.78S–.04**	**22.08E–.04**	**25–13**		**59**	**1-57**
NEIC	V	14 14 10 41.4	32.88S	22.12E	5	4.1L,3.8b		**¶16524503**
PRE	V	14 14 10 41.7–1.6	32.78S	22.14E	5	4.8L,3.8b		

ISC Event type fe.
NEIC Event type fe. Felt [III] at George, Knysna and Plettenberg Bay; [II] at Mossel Bay. Also felt at Port Elizabeth and Somerset West. After PRE.
PRE Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.

(162) South Island

WEL	**V**	**14 14 25 03.5–.15**	**43.56S**	**172.85E**	**9–0**	**4.2L**		
NEIC	V	14 14 25 03.6	43.55S	172.83E	9	4.1L		**¶16512065**

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(502) Arkansas

ISC	**V**	**14 14 36 38.8–.92**	**35.20N–.03**	**92.22W–.03**	**8–6**		**33**	**0-4**
ISCJB	V	14 14 36 38.4–.59	35.18N–.02	92.19W–.03	8–3			**¶16717018**
NEIC	V	14 14 36 39.0	35.20N	92.21W	7	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=42.3.
NEIC Event type fe. Felt at Conway. After CERI.

(162) South Island

WEL	**V**	**14 14 40 32.4–.18**	**43.56S**	**172.86E**	**9–0**	**3.6L**		
NEIC	V	14 14 40 31.8	43.55S	172.90E	9	4.0L		**¶16512067**

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 14 49 09.3–.64**	**37.12N–.05**	**141.42E–.06**	**42–5**	**3.4b**	**39**	**0-147**
NIED	V	14 14 49 00	37.20N	141.40E	44	3.8W		**¶17203617**
ISCJB	V	14 14 49 07.4–.87	37.10N–.04	141.46E–.08	44–8	3.4b,3.0s		
JMA	V	14 14 49 08.6–.10	37.15N	141.36E	48–1	3.9,3.0s		
IDC	V	14 14 49 09.4–.54	37.07N	141.29E	44–5	3.7L,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ47.00000°,λ42.00000°. NP2:ϕ_s273.00000°,δ61.00000°,λ128.00000°. $M_0$6.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.3km az=16.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=9.5km az=111.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 15 01 41.1–1.3**	**37.38N–.03**	**141.32E–.04**	**10–8**	**4.6b,3.8s**	**216**	**0-147**	
NIED	V	14 15 01 00	37.40N	141.40E	11	4.3W,3.8s			¶16512071
ISCJB	V	14 15 01 40.0–.21	37.36N–.02	141.31E–.03	10	4.5b,3.7s			
IDC	V	14 15 01 40.2–.49	37.40N	141.17E	0	4.5,4.5			
MOS	V	14 15 01 43.4–1.3	37.46N	141.35E	36	4.8b,4.5			
JMA	V	14 15 01 43.4–.10	37.41N	141.32E	28–1	4.6,4.5			
NEIC	V	14 15 01 45.6–.22	37.44N	141.15E	35	4.6b,4.5			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ11.00000°,λ-140.00000°. NP2:ϕ_s225.00000°,δ83.00000°,λ-81.00000°. $M_0$3.64000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.9km az=19.5.
IDC Error ellipse: s-maj=15.1km s-min=11.3km az=103.0.
MOS Error ellipse: s-maj=7.7km s-min=4.8km az=105.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=135.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

JMA	**V**	**14 15 47 08.0–.10**	**37.05N**	**141.20E**	**28–1**	**3.5**			
NIED	V	14 15 47 00	37.00N	141.20E	8	3.5W			¶600614175

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ42.00000°,λ-88.00000°. NP2:ϕ_s19.00000°,δ48.00000°,λ-92.00000°. $M_0$1.85000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**14 15 50 34.8–2.1**	**37.28N–.04**	**141.76E–.08**	**24–14**	**3.6b**	**29**	**1-90**	
NIED	V	14 15 50 00	37.30N	141.60E	50	3.8W			¶16560065
IDC	V	14 15 50 31.4–1.1	37.31N	141.88E	0	3.9,3.8			
ISCJB	V	14 15 50 33.7–1.2	37.28N–.04	141.79E–.07	23–7	3.7b,2.8s			
JMA	V	14 15 50 37.3–.10	37.30N	141.58E	44–2	4.0,2.8s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ10.00000°,λ68.00000°. NP2:ϕ_s28.00000°,δ81.00000°,λ94.00000°. $M_0$4.90000×10^{14}
IDC Error ellipse: s-maj=25.6km s-min=20.9km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.0km az=14.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 16 45 10.5–1.4**	**38.82N–.05**	**142.1E–.10**	**44–12**	**4.0b**	**35**	**0-78**	
NIED	V	14 16 45 00	38.90N	142.10E	53	3.9W			¶16560067
ISCJB	V	14 16 45 09.9–.87	38.84N–.05	142.12E–.10	52–6	3.9b,3.5s			
JMA	V	14 16 45 11.0–.10	38.86N	142.08E	42–2	3.9,3.5s			
IDC	V	14 16 45 13.6–2.0	38.82N	142.05E	72–18	4.0,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ24.00000°,λ81.00000°. NP2:ϕ_s33.00000°,δ66.00000°,λ94.00000°. $M_0$9.31000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.1km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.3km s-min=13.5km az=96.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 18 41 54.2–2.1**	**35.97N–.06**	**141.28E–.08**	**8–12**	**3.5b**	**15**	**0-65**	
NIED	V	14 18 41 00	36.00N	141.30E	11	3.5W			¶17203629
IDC	V	14 18 41 53.0–1.2	35.89N	141.30E	0	3.6,3.4b			
JMA	V	14 18 41 55.1–.20	35.97N	141.28E	32–2	3.6,3.4b			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ19.00000°,λ-15.00000°. NP2:ϕ_s303.00000°,δ85.00000°,λ-108.00000°. $M_0$2.10000×10^{14}
IDC Error ellipse: s-maj=31.7km s-min=24.0km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(227) Eastern Honshu

ISC	**V**	**14 19 20 56.2–.91**	**37.15N–.03**	**140.74E–.04**	**7–7**		**21**	**0-57**	
ISCJB	V	14 19 20 55.7–.64	37.16N–.03	140.82E–.06	10–4	3.3b			¶17203635
IDC	V	14 19 20 55.0–1.9	37.11N	140.90E	0	3.5,3.4			
JMA	V	14 19 20 56.2	37.16N	140.74E	8–1	3.1,3.4			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=17.2.
IDC Error ellipse: s-maj=34.7km s-min=29.7km az=116.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 19 30 15.9–.92**	**35.62N–.04**	**140.05E–.06**	**74–7**	**3.7b**	**28**	**0-70**	
IDC	V	14 19 30 03.9–1.7	35.92N	141.15E	0	3.8,3.7			¶17203637
ISCJB	V	14 19 30 14.9–.55	35.61N–.04	140.06E–.07	79–4	3.6b,3.7			
JMA	V	14 19 30 15.6–.20	35.69N	140.08E	68–2	3.3,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=20.1km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=157.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000°,δ63.00000°,λ93.00000°. NP2: ϕ_s172.00000°,δ27.00000°,λ84.00000°. Principal axes: T Plg72.0000°,Azm277.0000° ; N Plg3.0000°,Azm178.0000°; P Plg18.0000°,Azm87.0000°

(718) Hindu Kush region

ISC	**V**	**14 21 07 21.8–.16**	**36.43N–.02**	**70.72E–.02**	**208–1**	**5.7b**	**2062**	**3-154**	
MOS	V	14 21 07 17.9–.87	36.34N	70.74E	180	6.0b,5.1s			¶16512075
ISCJB	V	14 21 07 19.9–.22	36.45N–.01	70.74E–.01	198–2	5.6b,5.1s			
BJI	V	14 21 07 20.9	36.55N	70.65E	208	6.1b,5.8b			
IDC	V	14 21 07 21.9–.33	36.33N	70.76E	208–2	5.9,5.4			
GCMT	V	14 21 07 22.2–.10	36.45N	70.62E	210–0	6.0W,5.4			
NEIC	V	14 21 07 22.0–.00	36.44N	70.74E	207	6.0W,5.4			
NEIC	V	14 21 07 22.2–.10	36.41N	70.75E	207	6.0W,5.9W			
NNC	V	14 21 07 25.6–1.5	36.96N	70.53E	214–8	7.0,5.7b			

ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=113.0. Felt (III) at Dushanbe, Tashkent; (II) at Shymkent. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.4km az=22.7.
IDC Error ellipse: s-maj=7.2km s-min=5.3km az=2.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c253; s130,c440;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}0.78±.01 $M_{\theta\theta}$-0.66±.01; $M_{\phi\phi}$-0.12±.01; $M_{r\theta}$0.74±.01; $M_{\theta\phi}$0.23±.01; $M_{\phi r}$-0.52±.01; Best double couple: NP1:ϕ_s121.00000°,δ70.00000°,λ97.00000°. NP2:ϕ_s281.00000° ,δ21.00000°,λ72.00000°. Principal axes: T 1.2130,Plg64.0000°,Azm42.0000° ; N -0.0630,Plg6.0000°,Azm299.0000°; P -1.1500,Plg25.0000°,Azm206.0000° $M_0$1.18200×10^{18}
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}6.40 $M_{\theta\theta}$-5.30 $M_{\phi\phi}$-1.10 $M_{r\theta}$6.58 $M_{\theta\phi}$1.72 $M_{\phi r}$-3.94 Best double couple: NP1:ϕ_s118.00000° ,δ71.00000°,λ95.00000°. NP2:ϕ_s283.00000°,δ20.00000°,λ76.00000°. Principal axes: T 10.1000,Plg63.0000°,Azm36.0000°; N -0.6000,Plg4.0000°,Azm296.0000° ; P -9.5000,Plg25.0000°,Azm204.0000° $M_0$9.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=204.0. Felt [III] at Bagrami, Charikar, Faizabad, Kabul and Qunduz; [II] at Jabal-os-Saraj, Jalalabad and Mazar-e Sharif. Also felt at Baghlan, Baghran and Basawul. Felt [IV] at Islamabad and [III] at Peshawar, Pakistan. Also felt at Abbottabad, Mingaora and Rawalpindi. Felt [III] at Dushanbe, Tajikistan. Also felt at Garm. Felt [III] at Tashkent, Uzbekistan. Felt [II] at Shymkent, Kazakhstan. Also felt at Taraz. Felt at Baramula, Chandigarh and Noida, India. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ68.00000°,λ97.00000°. NP2:ϕ_s282.00000° ,δ23.00000°,λ74.00000°. Principal axes: T 1.0600,Plg66.0000°,Azm41.0000° ; N -0.0100,Plg6.0000°,Azm297.0000°; P -1.0500,Plg23.0000°,Azm204.0000°
NNC Event type se. Error ellipse: s-maj=14.5km s-min=7.9km az=157.0.

(518) Texas-Mexico border region

ISC	**V**	**14 22 07 48.8–1.0**	**30.74N–.05**	**105.77W–.04**	**10**		**40**	**1-15**	
MEX	V	14 22 07 49.2–.97	30.57N	105.33W	15–64	3.9			¶602597740
ISCJB	V	14 22 07 50.0–.56	30.84N–.04	105.77W–.04	10	3.9			
NEIC	V	14 22 07 51.1–.62	30.82N	105.74W	10	3.9,3.7L			

ISC Event type fe.
MEX Error ellipse: s-maj=47.3km s-min=57.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=152.9.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.2km az=162.0. Felt at El Paso, Texas.

(225) Off southeast coast of Hokkaido

ISC	**V**	**14 22 30 29.8–.35**	**43.04N–.03**	**146.22E–.03**	**42–2**	**5.2b,4.5s**	**1262**	**0-153**	
NIED	V	14 22 30 00	42.80N	146.40E	32	4.9W,4.5s			¶16512080
IDC	V	14 22 30 22.7–.44	42.91N	146.24E	0	5.1,4.9			
JMA	V	14 22 30 27.4–.10	42.85N	146.31E	48–2	5.0,4.9			
SKHL	V	14 22 30 27.5–.40	42.80N	146.32E	54–5	5.8b,5.3s			
BJI	V	14 22 30 28.2	43.05N	146.25E	51	4.9b,4.9b			
GCMT	V	14 22 30 29.7–.50	42.95N	146.37E	37–1	5.1W,4.9b			
NEIC	V	14 22 30 29.7–.43	43.14N	146.13E	37–4	5.2b,4.9b			
ISCJB	V	14 22 30 29.6–.32	43.04N–.02	146.20E–.02	54–2	5.2b,4.5s			
MOS	V	14 22 30 29.4–.87	43.09N	146.14E	53	5.5b,4.4s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ45.00000°,λ24.00000°. NP2:ϕ_s58.00000°,δ73.00000°,λ132.00000°. $M_0$2.97000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.1km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s62,c89; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.21±.57 $M_{\theta\theta}$0.14±.32; $M_{\phi\phi}$-4.35±.33; $M_{r\theta}$3.12±.32; $M_{\theta\phi}$-1.85±.17; $M_{\phi r}$1.76±.28; Best double couple: NP1:ϕ_s43.00000°,δ65.00000° ,λ114.00000°. NP2:ϕ_s177.00000°,δ34.00000°,λ50.00000°. Principal axes: T 5.9460,Plg63.0000°,Azm351.0000°; N -0.1360,Plg21.0000°,Azm212.0000° ; P -5.8140,Plg16.0000°,Azm116.0000° $M_0$5.88000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=153.0. Recorded [3 JMA] in eastern Hokkaido.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=166.4.
MOS Error ellipse: s-maj=6.7km s-min=5.2km az=104.8.

(228) Near east coast of eastern Honshu

ISC	**V**	**14 23 50 48.6–.31**	**37.72N–.03**	**141.58E–.03**	**52–2**	**5.2b,4.3s**	**1127**	**1-152**	
NIED	V	14 23 50 00	37.70N	141.60E	56	5.0W,4.3s			¶16512083
BJI	V	14 23 50 46.2	37.66N	141.55E	58	5.2b,5.0b			
MOS	V	14 23 50 47.2–.88	37.79N	141.56E	51	5.5b,5.0b			
JMA	V	14 23 50 48.1–.10	37.66N	141.58E	48–2	5.1,5.0b			
ISCJB	V	14 23 50 48.2–.27	37.66N–.02	141.45E–.02	59–2	5.2b,4.3s			
IDC	V	14 23 50 49.8–1.8	37.66N	141.49E	64–16	5.1,5.0			
GCMT	V	14 23 50 49.8–.40	37.71N	141.75E	56–1	5.0W,5.0			
NEIC	V	14 23 50 49.8–.40	37.67N	141.40E	60–3	5.3b,5.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ35.00000°,λ96.00000°. NP2:ϕ_s8.00000°,δ55.00000°,λ86.00000°. $M_0$3.69000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=5.3km az=91.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s348.00000°,δ51.00000°,λ69.00000°. NP2:ϕ_s200.00000°,δ44.00000°,λ114.00000°. Principal axes: T Plg73.0000°,Azm196.0000°; N Plg17.0000°,Azm2.0000°; P Plg4.0000° ,Azm93.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=153.8.
IDC Error ellipse: s-maj=12.5km s-min=10.2km az=100.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c57; s81,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.13±.20 $M_{\theta\theta}$0.04±.13; $M_{\phi\phi}$-4.17±.12; $M_{r\theta}$-0.66±.10; $M_{\theta\phi}$-0.70±.09; $M_{\phi r}$0.63±.10; Best double couple: NP1:ϕ_s359.00000°,δ49.00000° ,λ76.00000°. NP2:ϕ_s199.00000°,δ42.00000°,λ105.00000°. Principal axes: T 4.2980,Plg79.0000°,Azm208.0000°; N 0.0230,Plg10.0000°,Azm8.0000° ; P -4.3160,Plg4.0000°,Azm99.0000° $M_0$4.30700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=137.0. Recorded [3 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 00 51 43.7–.68**	**36.76N–.05**	**141.56E–.06**	**24–3**	**4.0b**	**54**	**1-147**	
NIED	V	15 00 51 00	36.80N	141.40E	41	4.1W			¶16590014
ISCJB	V	15 00 51 41.4–1.0	36.73N–.03	141.64E–.05	22–6	3.9b,3.3s			
JMA	V	15 00 51 44.7–.20	36.75N	141.38E	48–2	4.1,3.3s			
IDC	V	15 00 51 45.1–.87	36.67N	141.49E	35–5	4.1L,3.9			
NEIC	V	15 00 51 45.0–.66	36.68N	141.61E	36–5	4.3b,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ32.00000°,λ-156.00000°. NP2:ϕ_s203.00000°,δ77.00000°,λ-60.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.6km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=15.5km az=93.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=7.6km az=107.0. Recorded [1 JMA] in Fukushima and Ibaraki.

(12) Alaska Peninsula

ISC	**V**	**15 04 08 47.1–1.6**	**54.9N–.10**	**160.30W–.07**	**47–11**	**4.0b**	**62**	**0-85**	
ISCJB	V	15 04 08 47.2–.74	54.94N–.08	160.30W–.08	62–5	3.9b			¶16560069
IDC	V	15 04 08 47.8–6.0	55.17N	160.47W	42–43	3.9,3.8			
NEIC	V	15 04 08 48.5	54.93N	160.40W	12	3.6L,3.8			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=3.8km az=154.2.
IDC Error ellipse: s-maj=63.6km s-min=22.2km az=157.0.
NEIC Event type fe. Felt at Sand Point. After AEIC.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 04 12 16.2–1.4**	**38.14N–.06**	**141.82E–.10**	**50–12**	**3.7b**	**33**	**0-146**	
NIED	V	15 04 12 00	38.10N	141.70E	56	3.7W			¶600614668
ISCJB	V	15 04 12 15.7–.78	38.15N–.05	141.78E–.09	63–6	3.7b			
JMA	V	15 04 12 16.8–.10	38.15N	141.73E	55–1	3.9			
IDC	V	15 04 12 20.6–3.1	38.13N	141.64E	92–28	3.7,3.6			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ109.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ74.00000°. $M_0$4.54000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.8km az=25.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.7km s-min=17.0km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 04 25 01.3–2.1**	**36.61N–.07**	**141.33E–.08**	**7–11**	**3.9b**	**28**	**1-75**	
IDC	V	15 04 25 00.1–1.0	36.66N	141.47E	0	3.9,3.8L			¶600614676
NIED	V	15 04 25 00	36.60N	141.20E	11	3.7W,3.8L			
ISCJB	V	15 04 25 01.5–1.2	36.56N–.06	141.37E–.07	21–7	3.8b,3.0s			
JMA	V	15 04 25 04.2–.10	36.61N	141.17E	39–2	3.8,3.0s			
NEIC	V	15 04 25 05.6–.58	36.64N	141.32E	35	4.1b,3.0s			

ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=21.2km az=84.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ47.00000°,λ-120.00000°. NP2:ϕ_s229.00000°,δ51.00000°,λ-62.00000°. $M_0$3.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=7.3km az=140.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=9.3km az=136.0. Recorded [1 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 04 54 58.3–1.6**	**38.64N–.05**	**142.50E–.07**	**40–13**	**4.2b,3.2s**	**66**	**1-151**	
NIED	V	15 04 54 00	38.60N	142.40E	47	4.1W,3.2s			¶16591586
ISCJB	V	15 04 54 57.1–.84	38.66N–.04	142.50E–.07	46–6	4.2b,3.2s			
JMA	V	15 04 54 58.1–.10	38.63N	142.41E	38–2	4.3,3.2s			
NEIC	V	15 04 54 58.6–.83	38.64N	142.45E	44–7	4.3b,3.2s			
IDC	V	15 04 55 02.0–2.5	38.57N	142.35E	76–22	4.2,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ37.00000°,λ101.00000°. NP2:ϕ_s203.00000°,δ54.00000°,λ82.00000°. $M_0$1.88000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.2km az=26.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.5km az=128.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=15.3km s-min=14.1km az=100.0.

(135) Near coast of central Chile

ISC	**V**	**15 05 01 06.2–.94**	**36.71S–.07**	**73.2W–.10**	**35**	**4.4b**	**24**	**1-86**	
ISCJB	V	15 05 01 06.0–.77	36.73S–.06	73.29W–.09	35	4.1b			¶16512092
NEIC	V	15 05 01 08.0	36.68S	72.97W	40	4.5b			
GUC	V	15 05 01 08.9–.51	36.68S	72.97W	40–3	3.8L			
IDC	V	15 05 01 12.1–4.2	36.76S	72.71W	64–44	3.4L,3.3			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=8.8km az=14.2.
NEIC Event type fe. Felt [IV] at Coelemu, Coronel and Penco; [III] at Cauquenes, Chiguayante, Concepcion, Hualpen, Linares, Parral, Talcahuano and Tome; [II] at Longavi and Pelluhue. After GUC.
GUC Error ellipse: s-maj=5.3km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=62.6km s-min=36.7km az=69.0.

(224) Hokkaido region

ISC	**V**	**15 05 19 42.7–.67**	**42.60N–.05**	**142.97E–.04**	**112–5**	**3.8b**	**57**	**0-70**
NIED	V	15 05 19 00	42.70N	143.00E	116	3.9W		¶16560070
MOS	V	15 05 19 40.9–1.3	42.56N	142.89E	115	3.9b		
ISCJB	V	15 05 19 41.5–.35	42.59N–.04	142.96E–.04	118–2	3.9b		
IDC	V	15 05 19 42.7–1.6	42.58N	142.75E	109–10	3.9,3.6		
JMA	V	15 05 19 43.4–.10	42.67N	143.01E	106–2	3.5,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ29.00000°,λ46.00000°. NP2:ϕ_s353.00000°,δ69.00000°,λ112.00000°. $M_0$7.19000×10^{14}

MOS Error ellipse: s-maj=16.9km s-min=10.7km az=68.7.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=149.7.

IDC Error ellipse: s-maj=19.5km s-min=15.2km az=118.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(201) Irian Jaya

ISC	**V**	**15 06 47 04.2–.31**	**3.07S–.03**	**139.70E–.03**	**93–2**	**5.5b**	**724**	**1-154**
BJI	V	15 06 46 58.5	3.44S	140.10E	90	5.5b,5.4b		¶16512093
ISCJB	V	15 06 47 02.9–.37	3.08S–.02	139.71E–.02	93–3	5.4b,5.4b		
MOS	V	15 06 47 02.5–.96	3.04S	139.68E	89	5.5b,5.4b		
IDC	V	15 06 47 03.5–.54	3.11S	139.81E	88–4	5.2,4.9		
NEIC	V	15 06 47 04.0–.00	3.26S	139.67E	86	5.2,4.9		
NEIC	V	15 06 47 05.3–.62	3.11S	139.70E	103–6	5.6b,5.4W		
DJA	V	15 06 47 05.2–.20	3S–2.0	140E–2.0	92–3	6.7,6.0b		
GCMT	V	15 06 47 05.3–.10	3.01S	139.76E	95–0	5.4W,6.0b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.2km az=24.0.

MOS Error ellipse: s-maj=9.2km s-min=5.2km az=103.6.

IDC Error ellipse: s-maj=8.8km s-min=7.3km az=80.0.

NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}1.20 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-0.60 $M_{r\theta}$-0.50 $M_{\theta\phi}$0.70 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s316.00000° ,δ60.00000°,λ93.00000°. NP2:ϕ_s130.00000°,δ29.00000°,λ84.00000°. Principal axes: T 1.4000,Plg74.0000°,Azm235.0000°; N 0.1000,Plg2.0000°,Azm135.0000° ; P -1.5000,Plg15.0000°,Azm44.0000° $M_0$1.00000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=207.0. Felt [III] at Genyem, Jayapura, Sentani and Wamena. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17} Nm; M_{rr}1.51 $M_{\theta\theta}$-0.66 $M_{\phi\phi}$-0.86 $M_{r\theta}$0.04 $M_{\theta\phi}$0.67 $M_{\phi r}$0.18 Best double couple: NP1: ϕ_s134.00000°,δ43.00000°,λ82.00000°. NP2:ϕ_s325.00000°,δ47.00000°,λ97.00000°. Principal axes: T 1.5300,Plg84.0000°,Azm297.0000°; N -0.0900,Plg5.0000°,Azm140.0000° ; P -1.4400,Plg2.0000°,Azm49.0000° $M_0$1.50000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c184; s115,c206;Duration: 1^{s}2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40±.02 $M_{\theta\theta}$-0.81±.02; $M_{\phi\phi}$-0.58±.03; $M_{r\theta}$0.06±.02; $M_{\theta\phi}$0.83±.02; $M_{\phi r}$0.26±.02; Best double couple: NP1: ϕ_s321.00000°,δ48.00000°,λ104.00000°. NP2:ϕ_s121.00000°,δ43.00000°,λ75.00000°. Principal axes: T 1.4470,Plg80.0000°,Azm298.0000°; N 0.0940,Plg10.0000°,Azm132.0000° ; P -1.5360,Plg2.0000°,Azm42.0000° $M_0$1.49100×10^{17}

(227) Eastern Honshu

JMA	**V**	**15 07 03 30.5**	**37.11N**	**140.79E**	**9–1**	**3.5**		
								¶600614766

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s215.00000°,δ54.00000°,λ-85.00000°. NP2:ϕ_s26.00000°,δ36.00000°,λ-97.00000°. Principal axes: T Plg9.0000°,Azm301.0000°; N Plg4.0000°,Azm32.0000°; P Plg80.0000° ,Azm147.0000°

(307) Sichuan

ISC	**V**	**15 07 05 32.5–.61**	**32.53N–.02**	**105.46E–.03**	**11–3**	**5.0b,4.2s**	**422**	**2-163**
ISCJB	V	15 07 05 30.4–.86	32.55N–.02	105.44E–.02	8–5	4.9b,4.2s		¶16512094
IDC	V	15 07 05 30.1–.51	32.46N	105.37E	0	4.8,4.7		
MOS	V	15 07 05 31.2–1.1	32.45N	105.48E	19	5.2b,4.3s		
NEIC	V	15 07 05 32.1–.16	32.50N	105.42E	10	5.0b,4.3s		
BJI	V	15 07 05 32.4	32.59N	105.34E	17	4.9L,4.8b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.8km az=166.8.

IDC Error ellipse: s-maj=15.2km s-min=10.4km az=27.0.

MOS Error ellipse: s-maj=6.5km s-min=3.9km az=115.0.

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.5km az=58.0. Felt at Chengdu and Chongqing.

(227) Eastern Honshu

ISC	**V**	**15 07 56 45.1–1.0**	**37.70N–.03**	**139.93E–.03**	**11–9**		**28**	**0-61**
NIED	V	15 07 56 00	37.70N	139.90E	8	3.6W		¶16516456
IDC	V	15 07 56 40.8–3.7	38.05N	139.84E	0	3.9,3.6		
ISCJB	V	15 07 56 44.9–.49	37.70N–.02	139.95E–.03	8–4	3.7b,3.6		
JMA	V	15 07 56 45.2	37.71N	139.93E	7–1	3.7,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ46.00000°,λ125.00000°. NP2:ϕ_s13.00000°,δ54.00000°,λ60.00000°. $M_0$3.05000×10^{14}

IDC Error ellipse: s-maj=74.4km s-min=40.5km az=156.0.

ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.6km az=150.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s3.00000°,δ73.00000°,λ52.00000°. NP2:ϕ_s252.00000°,δ41.00000°,λ153.00000°. Principal axes: T Plg48.0000°,Azm233.0000°; N Plg36.0000°,Azm16.0000°; P Plg19.0000° ,Azm120.0000°

(76) Off coast of central America

ISC	**V**	**15 08 34 48.6–.44**	**12.59N–.04**	**88.14W–.04**	**59–3**	**4.8b,3.6s**	**758**	**1-152**
CASC	V	15 08 34 47.9–14	12.76N	88.06W	85–133	4.9W,4.8		¶16512095
ISCJB	V	15 08 34 48.3–.28	12.58N–.03	88.11W–.02	70–2	4.7b,4.8		
GCMT	V	15 08 34 48.6–.40	12.61N	88.25W	48–1	4.9W,4.8		
IDC	V	15 08 34 48.1–.66	12.77N	87.88W	55–5	4.6,4.6		
NEIC	V	15 08 34 48.6–.22	12.57N	88.07W	57	5.0,4.8b		

ISC Event type fe.

CASC Error ellipse: s-maj=101.5km s-min=58.6km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.5km az=38.2.

GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c45; s45,c56; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.16±.14 $M_{\theta\theta}$-2.21±.10; $M_{\phi\phi}$0.04±.12; $M_{r\theta}$0.30±.07; $M_{\theta\phi}$1.11±.10; $M_{\phi r}$-0.33±.08; Best double couple: NP1:ϕ_s118.00000°,δ50.00000° ,λ98.00000°. NP2:ϕ_s286.00000°,δ41.00000°,λ80.00000°. Principal axes: T 2.2150,Plg82.0000°,Azm75.0000°; N 0.4780,Plg6.0000°,Azm293.0000° ; P -2.6990,Plg5.0000°,Azm203.0000° $M_0$2.45700×10^{16}

IDC Error ellipse: s-maj=18.4km s-min=9.4km az=58.0.

NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=217.0. Felt [II] at San Salvador, El Salvador. Also felt at Usulutan.

(243) Taiwan region

ISC	**V**	**15 08 42 52.6–1.1**	**24.94N–.03**	**122.41E–.03**	**12–7**	**4.0b,2.9s**	**113**	**0-82**
ISCJB	V	15 08 42 52.3–.54	25.06N–.02	122.41E–.02	12–3	4.0b,3.0s		¶16523195
JMA	V	15 08 42 53.7–.10	24.98N	122.37E	48–3	3.4,3.0s		
BJI	V	15 08 42 54.2	25.05N	122.19E	10	4.4L,4.1b		
TAP	V	15 08 42 54.4	25.00N	122.29E	19–0	4.2L,4.1b		
NEIC	V	15 08 42 54.0–2.0	24.91N	122.34E	6–11	4.4L,4.1b		
IDC	V	15 08 43 00.4–4.1	24.96N	122.27E	74–38	4.0,3.8		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=178.2.

JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

TAP C.

NEIC Event type fe. Error ellipse: s-maj=27.5km s-min=9.3km az=195.0. Recorded [2 TAP] in Yilan and [1 TAP] in Hualien and Taipei.

IDC Error ellipse: s-maj=19.5km s-min=13.1km az=72.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 09 56 38.0–1.2**	**38.32N–.04**	**141.78E–.09**	**46–11**	**3.7b**	**39**	**0-146**
NIED	V	15 09 56 00	38.30N	141.70E	68	3.8W		¶17203684
ISCJB	V	15 09 56 37.2–.63	38.30N–.03	141.76E–.08	59–5	3.6b		
JMA	V	15 09 56 38.5–.10	38.33N	141.72E	52–1	3.7		
IDC	V	15 09 56 38.7–1.8	38.30N	141.59E	55–17	3.7,3.7L		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ20.00000°,λ140.00000°. NP2:ϕ_s356.00000°,δ78.00000°,λ75.00000°. $M_0$5.79000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.5km az=15.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=22.5km s-min=10.8km az=98.0.

(229) Off east coast of Honshu

ISC	**V**	**15 10 25 18.5–.46**	**37.10N–.03**	**142.37E–.03**	**17–2**	**5.1b,4.6s**	**777**	**1-160**
NIED	V	15 10 25 00	37.10N	142.50E	20	4.8W,4.6s		¶16512097
JMA	V	15 10 25 14.4–.40	37.07N	142.49E	6–4	5.1,4.6s		
ISCJB	V	15 10 25 15.8–.75	37.06N–.02	142.37E–.02	5–4	5.0b,4.6s		
IDC	V	15 10 25 15.9–.40	37.07N	142.41E	0	4.9,4.8		
BJI	V	15 10 25 19.1	37.15N	142.24E	33	5.1b,5.0b		
MOS	V	15 10 25 20.1–.92	37.46N	142.27E	23	5.3b,4.6s		
NEIC	V	15 10 25 21.3–1.1	37.06N	142.33E	31–8	5.1b,4.6s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ54.00000°,λ-162.00000°. NP2:ϕ_s232.00000°,δ75.00000°,λ-37.00000°. $M_0$1.92000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=174.0.

IDC Error ellipse: s-maj=12.8km s-min=10.2km az=97.0.

MOS Error ellipse: s-maj=5.9km s-min=3.8km az=100.7.

NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=131.0. Recorded [2 JMA] in Fukushima and Miyagi.

(229) Off east coast of Honshu

ISC	**V**	**15 12 14 18.8–.45**	**37.27N–.03**	**142.76E–.03**	**45–3**	**4.8b,3.9s**	**416**	**2-160**
NIED	V	15 12 14 00	37.30N	142.60E	74	5.1W,3.9s		¶16512098
ISCJB	V	15 12 14 18.7–.40	37.29N–.02	142.67E–.03	53–3	4.8b,3.9s		
MOS	V	15 12 14 19.9–.91	37.52N	142.56E	59	5.1b,3.9s		
NEIC	V	15 12 14 20.3–.58	37.24N	142.61E	57–5	4.9b,3.9s		
GCMT	V	15 12 14 20.3–.20	37.29N	142.67E	72–1	5.1W,3.9s		
IDC	V	15 12 14 20.9–1.8	37.24N	142.65E	67–16	4.6,4.4		
JMA	V	15 12 14 20.7–.20	37.29N	142.56E	68	5.3,4.4		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ55.00000°,λ-28.00000°. NP2:ϕ_s242.00000°,δ68.00000°,λ-142.00000°. $M_0$4.33000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=44.7.

MOS Error ellipse: s-maj=7.0km s-min=4.5km az=100.2.

NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=129.0. Recorded [3 JMA] in Iwate and Miyagi.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c73; s95,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.13 $M_{\theta\theta}$4.54±.12; $M_{\phi\phi}$-3.37±.12; $M_{r\theta}$1.59±.09; $M_{\theta\phi}$-1.53±.10; $M_{\phi r}$1.91±.08; Best double couple: NP1:ϕ_s239.00000°,δ78.00000° ,λ-149.00000°. NP2:ϕ_s142.00000°,δ59.00000°,λ-14.00000°. Principal axes: T 5.0830,Plg12.0000°,Azm8.0000°; N -0.1310,Plg56.0000°,Azm259.0000° ; P -4.9520,Plg31.0000°,Azm105.0000° $M_0$5.01700×10^{16}

IDC Error ellipse: s-maj=11.9km s-min=10.0km az=91.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(105) Near coast of Ecuador

ISC	**V**	**15 12 15 44.8–.44**	**1.10S–.05**	**80.21W–.07**	**16**	**4.6b**	**62**	**2-146**
ISCJB	V	15 12 15 42.9–.34	1.22S–.04	80.39W–.04	16	4.4b,4.1s		¶16524505
NEIC	V	15 12 15 48.9–1.0	1.08S	80.26W	50–11	4.6b,4.4		
IDC	V	15 12 15 51.2–2.4	1.18S	80.00W	75–23	3.9,3.8		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.0km az=172.4.

NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=7.5km az=57.0. Felt [III] at Manta and [II] at Bahia de Caraquez. Also felt at Esmeraldas, Guayaquil and Portoviejo.

IDC Error ellipse: s-maj=24.2km s-min=13.3km az=82.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 12 32 59.9–.68**	**39.84N–.04**	**142.75E–.04**	**27–4**	**4.7b,3.8s**	**351**	**1-162**
NIED	V	15 12 32 00	39.80N	142.70E	20	4.5W,3.8s		¶16512100
JMA	V	15 12 32 58.4–.20	39.77N	142.73E	31–2	4.7,3.8s		
ISCJB	V	15 12 32 58.4–.59	39.88N–.03	142.69E–.03	20–4	4.7b,3.9s		
MOS	V	15 12 33 01.8–.84	39.98N	142.57E	43	5.0b,3.9s		
IDC	V	15 12 33 02.0–1.7	39.75N	142.76E	45–15	4.4,4.3		
NEIC	V	15 12 33 03.2–.55	39.85N	142.61E	46–5	4.8b,4.3		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ57.00000°,λ14.00000°. NP2:ϕ_s60.00000°,δ78.00000°,λ146.00000°. $M_0$5.98000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.0km az=147.5.

MOS Error ellipse: s-maj=7.4km s-min=4.5km az=100.3.

IDC Error ellipse: s-maj=13.3km s-min=10.6km az=101.0.

NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=143.0. Recorded [2 JMA] in Iwate and Miyagi.

(229) Off east coast of Honshu

ISC	**V**	**15 13 48 33.4–.72**	**37.67N–.04**	**142.87E–.05**	**11–4**	**4.8s,4.6b**	**197**	**1-145**
NIED	V	15 13 48 00	37.60N	142.80E	26	4.6W,4.6b		¶16521352
IDC	V	15 13 48 32.0–.52	37.63N	142.83E	0	4.6s,4.6		
JMA	V	15 13 48 31.6–.30	37.66N	142.84E	12–4	4.8,4.6		
ISCJB	V	15 13 48 32.3–.98	37.71N–.03	142.85E–.03	12–6	4.7s,4.5b		
MOS	V	15 13 48 35.6–1.4	37.82N	142.81E	33	4.9b,4.5b		
NEIC	V	15 13 48 37.1–1.9	37.72N	142.83E	32–13	4.8b,4.5b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ41.00000°,λ113.00000°. NP2:ϕ_s217.00000°,δ53.00000°,λ71.00000°. $M_0$8.95000×10^{15}

IDC Error ellipse: s-maj=14.1km s-min=11.7km az=92.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.9km az=140.6.

MOS Error ellipse: s-maj=8.1km s-min=4.7km az=108.0.

NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.6km az=118.0. Recorded [1 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

JMA	**V**	**15 13 51 10.2–.10**	**37.41N**	**141.39E**	**28–1**	**3.7**		
								¶600614979

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 15 34 07.2–3.0**	**38.41N–.05**	**142.26E–.09**	**14–17**	**4.1b**	**33**	**1-96**
NIED	V	15 15 34 00	38.40N	142.20E	80	4.0W		¶16580985
IDC	V	15 15 34 05.2–1.1	38.40N	142.32E	0	3.9,3.8		
JMA	V	15 15 34 08.8–.10	38.44N	142.21E	31–2	3.8,3.8		
NEIC	V	15 15 34 11.0–.84	38.39N	142.22E	42–8	4.4b,3.8		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ67.00000°,λ-5.00000°. NP2:ϕ_s252.00000°,δ85.00000°,λ-157.00000°. $M_0$9.49000×10^{14}

IDC Error ellipse: s-maj=37.6km s-min=17.0km az=93.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=15.9km s-min=6.5km az=108.0. Recorded [1 JMA] in Iwate and Miyagi.

(136) Central Chile

ISC	**V**	**15 16 14 03.0–.36**	**28.77S–.04**	**70.61W–.08**	**49–3**	**4.8b,3.8s**	**368**	**0-161**
ISCJB	V	15 16 14 01.7–.38	28.75S–.03	70.46W–.06	53–3	4.8b,3.7s		¶16524506
GUC	V	15 16 14 02.6–.50	28.80S	70.78W	50–2	4.6L,3.7s		
NEIC	V	15 16 14 03.0–.15	28.75S	70.58W	47	4.8b,3.7s		
IDC	V	15 16 14 03.0–.44	28.80S	70.69W	47–3	4.4,4.3		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.5km az=177.3.

GUC Error ellipse: s-maj=1.2km s-min=9.7km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=3.7km az=78.0. Felt [IV] at Alto del Carmen; [III] at Copiapo, Freirina, Huasco, La Higuera, Tierra Amarilla, Vallenar and Vicuna; [II] at Caldera, Coquimbo, La Serena and Los Loros.

IDC Error ellipse: s-maj=16.7km s-min=13.0km az=84.0.

(460) Wyoming

ISC	**V**	**15 18 45 40.0–.72**	**43.84N–.03**	**105.28W–.02**	**0**		**53**	**1-19**
ISCJB	V	15 18 45 38.4–.35	43.77N–.04	105.47W–.03	0			¶17203704
IDC	V	15 18 45 38.4–2.2	43.66N	105.38W	0	3.6,3.4		
NEIC	V	15 18 45 39.4–1.1	43.75N	105.36W	0	3.1L,3.4		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=5.3km s-min=2.5km az=169.8.

IDC Error ellipse: s-maj=50.6km s-min=9.2km az=151.0.

NEIC Event type fm. Error ellipse: s-maj=12.2km s-min=11.5km az=69.0. 61 km [38 miles] S of Gillette. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 19 07 40.2–.41**	**38.64N–.03**	**141.99E–.04**	**46–2**	**4.9b,4.7s**	**430**	**1-145**
NIED	V	15 19 07 00	38.60N	141.90E	41	5.0W,4.7s		¶16512226
MOS	V	15 19 07 38.4–.93	38.71N	141.89E	37	5.2b,4.7s		
ISCJB	V	15 19 07 39.9–.39	38.66N–.02	141.89E–.04	51–2	4.9b,4.8s		
JMA	V	15 19 07 40.9–.10	38.63N	141.93E	48–1	4.7,4.8s		
IDC	V	15 19 07 41.6–1.6	38.64N	141.89E	52–14	4.7,4.7s		

NEIC V 15 19 07 42.0–.61 38.66N 141.80E 56–5 4.9b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ14.00000°,λ40.00000°. NP2:ϕ_s3.00000°,δ81.00000°,λ101.00000°. $M_0$3.70000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=3.9km az=105.6.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.1km az=30.7.
JMA Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=131.0. Recorded [3 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**15 21 58 16.1–.70**	**35.83N–.03**	**140.56E–.04**	**30–4**	**4.5b,3.9s**	**160**	**0-151**
NIED	V	15 21 58 00	35.90N	140.60E	53	4.4W,3.9s		**¶16524508**
MOS	V	15 21 58 17.7–1.2	35.94N	140.71E	60	4.8b,3.9s		
JMA	V	15 21 58 18.0–.10	35.87N	140.62E	52–1	3.8,3.9s		
NEIC	V	15 21 58 19.8–.72	35.74N	140.55E	64–6	4.7b,3.9s		
IDC	V	15 21 58 19.7–1.4	35.75N	140.53E	62–12	4.2,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ21.00000°,λ139.00000°. NP2:ϕ_s356.00000°,δ76.00000°,λ74.00000°. $M_0$4.32000×10^{15}
MOS Error ellipse: s-maj=10.1km s-min=6.0km az=121.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s358.00000°,δ87.00000°,λ73.00000°. NP2: ϕ_s260.00000°,δ17.00000°,λ171.00000°. Principal axes: T Plg45.0000°,Azm251.0000° ; N Plg17.0000°,Azm359.0000°; P Plg40.0000°,Azm104.0000°
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=100.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=13.4km s-min=7.4km az=66.0.

(196) Irian Jaya region

ISC	**V**	**16 02 35 21.4–.31**	**2.78S–.04**	**136.52E–.04**	**34**	**4.8b,3.9s**	**164**	**3-150**
IDC	V	16 02 35 15.7–.52	2.63S	136.67E	0	4.8L,4.7		**¶16524512**
ISCJB	V	16 02 35 19.6–.20	2.77S–.03	136.56E–.02	34	4.8b,4.0s		
NEIC	V	16 02 35 21.9–.74	2.71S	136.55E	43–7	4.8b,4.0s		
DJA	V	16 02 35 23.2–1.1	3S–3.0	137E–2.0	36–11	5.5b,5.0		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Serui.

(228) Near east coast of eastern Honshu

JMA	**V**	**16 03 20 46.7–.10**	**39.11N**	**142.13E**	**45–1**	**3.7**		
NIED	V	16 03 20 00	39.10N	142.10E	17	3.9W		**¶600615417**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ64.00000°,λ-21.00000°. NP2:ϕ_s345.00000°,δ71.00000°,λ-153.00000°. $M_0$8.64000×10^{14}

(228) Near east coast of eastern Honshu

JMA	**V**	**16 03 22 52.6–.10**	**35.78N**	**140.98E**	**13–1**	**3.6**		
								¶600615421

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(99) Northern Colombia

ISC	**V**	**16 05 12 37.2–.50**	**6.80N–.03**	**72.99W–.04**	**152–4**	**4.5b**	**551**	**0-154**
ISCJB	V	16 05 12 36.4–.20	6.76N–.02	72.99W–.02	161–1	4.4b		**¶16524514**
NEIC	V	16 05 12 37.5–.39	6.74N	72.93W	154–4	4.7b		
IDC	V	16 05 12 37.6–.60	6.76N	72.93W	156–6	4.5,4.2		
FUNV	V	16 05 12 38.0	6.79N	73.11W	164	4.6W,4.2		
RSNC	V	16 05 12 39.0–1.0	6.76N	73.11W	142–6	4.7L,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=139.8.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.6km az=72.0. Felt at San Cristobal, Venezuela.
IDC Error ellipse: s-maj=9.7km s-min=6.6km az=123.0.
RSNC Error ellipse: s-maj=4.9km s-min=6.0km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 07 31 44.9–2.2**	**38.40N–.05**	**142.21E–.09**	**8–13**	**3.7b**	**16**	**1-62**
NIED	V	16 07 31 00	38.40N	142.20E	65	3.8W		**¶17203732**
ISCJB	V	16 07 31 46.5–1.5	38.39N–.06	142.24E–.09	27–9	3.6b		
IDC	V	16 07 31 47.4–2.7	37.85N	142.85E	0	3.6,3.5b		
JMA	V	16 07 31 48.0–.10	38.45N	142.18E	30–2	3.8,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ30.00000°,λ-37.00000°. NP2:ϕ_s182.00000°,δ72.00000°,λ-115.00000°. $M_0$5.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=9.3km az=9.5.
IDC Error ellipse: s-maj=71.3km s-min=31.7km az=56.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 08 30 02.0–.81**	**37.22N–.04**	**141.55E–.07**	**36–2**	**3.9b**	**36**	**1-147**
ISCJB	V	16 08 30 00.5–.82	37.18N–.04	141.56E–.07	44–7	3.9b,2.9s		**¶17203735**
NIED	V	16 08 30 00	37.30N	141.40E	56	4.0W,2.9s		
JMA	V	16 08 30 03.0–.10	37.26N	141.35E	49–1	3.9,2.9s		
IDC	V	16 08 30 04.1–.80	37.06N	141.48E	62–7	4.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.8km az=12.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ24.00000°,λ85.00000°. NP2:ϕ_s24.00000°,δ66.00000°,λ92.00000°. $M_0$9.61000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.7km s-min=9.7km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 09 05 56.9–2.0**	**37.31N–.04**	**141.66E–.06**	**1–12**	**3.6b**	**30**	**1-90**
NIED	V	16 09 05 00	37.30N	141.50E	8	3.7W		**¶17203739**
IDC	V	16 09 05 56.9–.76	37.31N	141.56E	0	3.8,3.8L		
ISCJB	V	16 09 05 57.4–1.8	37.29N–.03	141.67E–.05	15–11	3.5b,3.8L		
JMA	V	16 09 05 59.3–.10	37.31N	141.54E	32–2	4.1,3.8L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ44.00000°,λ-121.00000°. NP2:ϕ_s245.00000°,δ54.00000°,λ-63.00000°. $M_0$4.46000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=18.2km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.7km az=25.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(159) North Island

WEL	**V**	**16 10 04 28.2–.06**	**39.24S**	**175.42E**	**13–0**	**3.4L**		
								¶16523288

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt from King Country to Whanganui, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 10 55 31.0–2.0**	**38.97N–.05**	**142.41E–.08**	**9–12**	**3.8b**	**24**	**1-62**
NIED	V	16 10 55 00	39.00N	142.40E	29	3.5W		**¶17203743**
JMA	V	16 10 55 32.6–.10	39.00N	142.45E	32–2	3.8		
IDC	V	16 10 55 34.9–3.4	38.94N	142.42E	38–31	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ29.00000°,λ-116.00000°. NP2:ϕ_s88.00000°,δ64.00000°,λ-76.00000°. $M_0$2.28000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=17.5km az=110.0.

(123) Northern Chile

ISC	**V**	**16 10 58 30.5–.72**	**22.48S–.05**	**68.49W–.07**	**117–6**	**4.2b**	**52**	**0-154**
IDC	V	16 10 58 28.8–.64	22.35S	68.21W	100–6	4.2,4.1		**¶16710009**
ISCJB	V	16 10 58 30.0–.34	22.48S–.05	68.55W–.05	125–3	4.1b,4.1		
GUC	V	16 10 58 30.8–.47	22.44S	68.58W	115–6	4.6L,4.1		
SJA	V	16 10 58 30.9–.96	22.49S	68.46W	107–23	3.6W,2.8L		
NEIC	V	16 10 58 30.0	22.44S	68.58W	115	4.2b,2.8L		

ISC Event type fe.
IDC Error ellipse: s-maj=17.0km s-min=15.0km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.8km az=43.8.
GUC Error ellipse: s-maj=2.2km s-min=5.9km az=-1.0.
SJA Error ellipse: s-maj=13.8km s-min=18.9km az=-1.0.
NEIC Event type fe. Felt [III] at Calama and [II] at Oficina Maria Elena, Sierra Gorda and Tocopilla. After GUC.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 14 00 26.7–1.8**	**37.28N–.04**	**141.47E–.07**	**4–11**		**27**	**0-57**
IDC	V	16 14 00 26.3–1.9	37.15N	141.63E	0	3.6,3.6		**¶17203754**
ISCJB	V	16 14 00 27.1–1.0	37.27N–.03	141.52E–.06	21–6	3.4b,3.6		
JMA	V	16 14 00 30.1–.10	37.31N	141.32E	36–1	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=43.5km s-min=23.3km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.8km az=15.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(86) Jamaica region

ISC	**V**	**16 15 07 07.8–1.0**	**17.91N–.05**	**77.93W–.05**	**29–7**	**4.6b,3.5s**	**356**	**0-150**
IDC	V	16 15 07 03.7–.52	17.82N	77.99W	0	4.5,4.4L		**¶16524520**
ISCJB	V	16 15 07 06.5–.56	17.85N–.02	77.82W–.03	31–4	4.6b,3.6s		
NEIC	V	16 15 07 07.4–1.2	17.91N	77.92W	28–9	4.7b,3.6s		
JSN	V	16 15 07 08.1–.70	17.82N	77.86W	21–5	5.0,3.6s		

ISC Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=11.6km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=143.1.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=222.0. Felt [IV] at Mandeville, May Pen, Montego Bay and Savanna la Mar; [III] at Half Way Tree and Kingston; [II] at Constant Spring, Mona and Spanish Town. Felt throughout Jamaica.
JSN Error ellipse: s-maj=8.4km s-min=10.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 15 53 31.6–.48**	**37.35N–.03**	**141.34E–.03**	**31–2**	**4.9b,4.1s**	**453**	**0-147**
NIED	V	16 15 53 00	37.40N	141.40E	38	4.7W,4.1s		**¶16521366**
MOS	V	16 15 53 31.2–1.0	37.43N	141.32E	33	5.2b,4.1s		
JMA	V	16 15 53 32.7–.10	37.38N	141.30E	35–1	4.6,4.1s		
ISCJB	V	16 15 53 32.4–.37	37.37N–.02	141.26E–.03	43–2	4.8b,4.1s		
IDC	V	16 15 53 34.1–1.7	37.41N	141.21E	42–15	4.7,4.6		
NEIC	V	16 15 53 34.6–.48	37.43N	141.15E	47–4	4.8b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ6.00000°,λ-35.00000°. NP2:ϕ_s215.00000°,δ87.00000°,λ-95.00000°. $M_0$1.09000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.2km az=108.3.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=40.4.
IDC Error ellipse: s-maj=12.8km s-min=10.2km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.1km az=142.0. Recorded [4 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**V**	**16 18 05 03.7–1.2**	**36.48N–.04**	**137.63E–.02**	**2–8**	**4.1b,3.8s**	**52**	**0-93**
NIED	V	16 18 05 00	36.50N	137.70E	11	4.6W,3.8s		**¶16560081**
ISCJB	V	16 18 05 03.0–.46	36.47N–.03	137.64E–.03	8–3	3.9b,3.8s		
JMA	V	16 18 05 02.8–.10	36.48N	137.64E	2–2	4.5,3.8s		
NEIC	V	16 18 05 03.8–1.3	36.46N	137.64E	3–9	4.2b,3.8s		
IDC	V	16 18 05 03.1–.59	36.39N	137.67E	0	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ81.00000°,λ-8.00000°. NP2:ϕ_s274.00000°,δ82.00000°,λ-171.00000°. $M_0$1.02000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=172.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s181.00000°,δ84.00000°,λ6.00000°. NP2:ϕ_s91.00000°,δ84.00000°,λ174.00000°. Principal axes: T Plg9.0000°,Azm46.0000°; N Plg81.0000°,Azm226.0000°; P Plg0.0000° ,Azm316.0000°
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.2km az=151.0. Recorded [2 JMA] in Gifu and Nagano.
IDC Error ellipse: s-maj=15.6km s-min=6.8km az=166.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 18 12 33.9–.57**	**38.10N–.04**	**142.41E–.05**	**26–3**	**4.0b**	**52**	**1-145**
NIED	V	16 18 12 00	38.20N	142.50E	26	3.8W		**¶600615872**
ISCJB	V	16 18 12 33.3–.95	38.10N–.03	142.51E–.07	35–8	4.0b		
JMA	V	16 18 12 34.0–.20	38.18N	142.46E	35–3	3.8		
IDC	V	16 18 12 35.5–.59	38.04N	142.44E	38–4	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ14.00000°,λ-101.00000°. NP2:ϕ_s174.00000°,δ76.00000°,λ-87.00000°. $M_0$5.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=11.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.1km s-min=12.3km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 20 31 36.7–.73**	**35.93N–.04**	**140.14E–.05**	**64–7**	**3.8b**	**35**	**0-92**
NIED	V	16 20 31 00	36.00N	140.10E	65	3.8W		**¶17203771**
ISCJB	V	16 20 31 35.6–.47	35.92N–.03	140.16E–.06	69–4	3.8b		
IDC	V	16 20 31 35.1–1.3	35.97N	140.29E	45–16	3.8,3.7L		
JMA	V	16 20 31 37.2–.10	35.97N	140.08E	63–1	3.7,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ46.00000°,λ59.00000°. NP2:ϕ_s84.00000°,δ52.00000°,λ119.00000°. $M_0$5.71000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=177.9.
IDC Error ellipse: s-maj=14.3km s-min=8.1km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s211.00000°,δ68.00000°,λ68.00000°. NP2: ϕ_s77.00000°,δ31.00000°,λ132.00000°. Principal axes: T Plg61.0000°,Azm88.0000° ; N Plg20.0000°,Azm219.0000°; P Plg20.0000°,Azm317.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**16 21 14 05.2–1.1**	**38.12N–.04**	**141.79E–.07**	**51–9**	**4.3b**	**99**	**0-146**
NIED	V	16 21 14 00	38.10N	141.80E	59	4.1W		**¶16560083**
ISCJB	V	16 21 14 04.7–.51	38.13N–.03	141.81E–.05	61–3	4.2b		
IDC	V	16 21 14 04.6–1.7	38.13N	141.70E	43–16	4.1,4.1		
NEIC	V	16 21 14 05.9–.62	38.20N	141.76E	54–5	4.5b,4.1		
JMA	V	16 21 14 05.8–.10	38.16N	141.75E	55–1	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ33.00000°,λ111.00000°. NP2:ϕ_s189.00000°,δ59.00000°,λ77.00000°. $M_0$1.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=27.4.
IDC Error ellipse: s-maj=16.7km s-min=9.4km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.9km az=125.0. Recorded [2 JMA] in Iwate and Miyagi.
JMA Event type fe.

(224) Hokkaido region

ISC	**V**	**16 22 14 21.9–.82**	**41.54N–.05**	**142.15E–.04**	**60–7**	**4.3b**	**103**	**1-86**
NIED	V	16 22 14 00	41.60N	142.10E	53	4.2W		**¶16524524**
MOS	V	16 22 14 20.7–1.1	41.63N	142.07E	55	4.4b		
ISCJB	V	16 22 14 21.2–.35	41.57N–.03	142.11E–.04	69–3	4.1b		
JMA	V	16 22 14 21.7–.10	41.55N	142.07E	64–3	4.2		
IDC	V	16 22 14 22.9–1.7	41.57N	142.06E	68–14	4.0,3.9		
NEIC	V	16 22 14 23.3–.56	41.62N	142.15E	70–7	4.5b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ21.00000°,λ90.00000°. NP2:ϕ_s19.00000°,δ69.00000°,λ90.00000°. $M_0$2.45000×10^{15}
MOS Error ellipse: s-maj=10.8km s-min=7.7km az=81.8.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=135.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ81.00000°,λ101.00000°. NP2: ϕ_s151.00000°,δ14.00000°,λ41.00000°. Principal axes: T Plg53.0000°,Azm304.0000° ; N Plg11.0000°,Azm200.0000°; P Plg35.0000°,Azm102.0000°
IDC Error ellipse: s-maj=15.7km s-min=11.2km az=119.0.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=6.7km az=135.0. Recorded [2 JMA] in Aomori, Honshu.

(97) Near coast of Venezuela

ISC	**V**	**16 22 18 22.1–.44**	**10.73N–.03**	**62.51W–.03**	**99–4**	**4.2b**	**352**	**1-161**
ISCJB	V	16 22 18 21.1–.18	10.76N–.02	62.49W–.02	104–1	4.2b		**¶16560085**
IDC	V	16 22 18 22.7–.48	10.86N	62.56W	101–4	4.2,4.0		
TRN	V	16 22 18 23.8	10.78N	62.30W	103	4.6,4.0		
FUNV	V	16 22 18 23.0	10.66N	62.33W	96	3.7W,4.0		
NEIC	V	16 22 18 24.1	10.78N	62.29W	102	4.7b,4.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=136.2.
IDC Error ellipse: s-maj=12.9km s-min=8.7km az=94.0.
TRN Event type fe. Felt MMI II and III in north-west Trinidad.
NEIC Event type fe. Felt at Carenage and Cascade, Trinidad. After TRN.

(228) Near east coast of eastern Honshu

ISC	**V**	**16 23 14 21.7–1.8**	**37.40N–.05**	**141.48E–.08**	**25–11**	**3.7b**	**27**	**0-74**
NIED	V	16 23 14 00	37.40N	141.30E	44	3.6W		**¶17203782**
IDC	V	16 23 14 17.2–1.6	37.44N	141.66E	0	3.9,3.8		
ISCJB	V	16 23 14 21.3–1.2	37.37N–.05	141.50E–.07	32–6	3.7b,3.8		
JMA	V	16 23 14 23.9–.10	37.41N	141.31E	33–1	3.7,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ43.00000°,λ167.00000°. NP2:ϕ_s57.00000°,δ81.00000°,λ47.00000°. M_o2.61000×10^{14}
IDC Error ellipse: s-maj=43.6km s-min=26.4km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.5km az=21.0.
JMA Event type fe.

(282) South of Jawa

ISC	**V**	**17 00 15 00.3–.38**	**9.15S–.03**	**112.59E–.03**	**53–2**	**5.5b,5.2s**	**1373**	**1-177**
BJI	V	17 00 14 55.7	9.20S	112.60E	28	5.5b,5.3b		**¶16523247**
IDC	V	17 00 14 56.3–2.1	9.16S	112.62E	21–12	5.4,5.3		
DJA	V	17 00 14 57.4–.30	10S–3.0	113E–2.0	10	6.3b,6.3		
GCMT	V	17 00 14 57.7–.10	9.53S	112.69E	41–0	5.7W,6.3		
NEIC	V	17 00 14 57.6–.12	9.20S	112.59E	28	5.7W,5.7b		
MOS	V	17 00 14 57.4–.91	9.15S	112.60E	48	5.8b,5.1s		
NEIC	V	17 00 14 58.0–.00	9.58S	113.01E	32	5.8b,5.1s		
ISCJB	V	17 00 15 00.1–.35	9.21S–.02	112.65E–.02	66–3	5.4b,5.1s		
KLM	V	17 00 15 01.7	9.40S	112.54E	71	6.5s,6.2L		

ISC Event type fe.
IDC Error ellipse: s-maj=12.3km s-min=8.5km az=73.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c226; s125,c343;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.50±.04 $M_{\theta\theta}$3.75±.03; $M_{\phi\phi}$-0.24±.04; $M_{r\theta}$0.54±.03; $M_{\theta\phi}$-0.97±.03; $M_{\phi r}$0.77±.04; Best double couple: NP1: ϕ_s269.00000°,δ50.00000°,λ-110.00000°. NP2:ϕ_s117.00000°,δ44.00000°,λ-68.00000°. Principal axes: T 3.9900,Plg3.0000°,Azm12.0000°; N -0.2340,Plg15.0000°,Azm282.0000° ; P -3.7490,Plg75.0000°,Azm113.0000° M_o3.87000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=217.0. Felt [IV] at Blitar and Karangkates; [III] at Malang; [II] at Surabaya and Yogyakarta. Also felt at Banyuwangi, Batu, Jember, Kepanjen and Pare. Felt [IV] at Denpasar and [II] at Kuta, Bali. Also felt at Ubud. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.99 $M_{\theta\theta}$2.59 $M_{\phi\phi}$0.40 $M_{r\theta}$0.41 $M_{\theta\phi}$-0.40 $M_{\phi r}$0.11 Best double couple: NP1:ϕ_s103.00000° ,δ41.00000°,λ-85.00000°. NP2:ϕ_s277.00000°,δ49.00000°,λ-94.00000°. Principal axes: T 2.6900,Plg4.0000°,Azm10.0000°; N 0.3400,Plg3.0000°,Azm280.0000° ; P -3.0300,Plg85.0000°,Azm151.0000° M_o2.90000×10^{17}
MOS Error ellipse: s-maj=9.2km s-min=6.2km az=105.7.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.70 $M_{\theta\theta}$3.60 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.80 $M_{\theta\phi}$-0.70 $M_{\phi r}$3.10 Best double couple: NP1:ϕ_s129.00000° ,δ67.00000°,λ-67.00000°. NP2:ϕ_s262.00000°,δ31.00000°,λ-132.00000°. Principal axes: T 4.6000,Plg19.0000°,Azm203.0000°; N 1.0000,Plg20.0000°,Azm300.0000° ; P -5.6000,Plg61.0000°,Azm73.0000° M_o5.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=19.1.

(162) South Island

WEL	**V**	**17 00 41 56.8–.06**	**43.60S**	**172.52E**	**7–0**	**3.9L**	
NEIC	V	17 00 41 56.7	43.59S	172.52E	8	4.1L	**¶16523290**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 00 56 08.6–1.2**	**35.85N–.05**	**140.94E–.09**	**28–7**	**3.5b**	**17**	**0-56**
IDC	V	17 00 56 04.5–1.4	35.78N	140.97E	0	3.7,3.5		**¶600616117**
ISCJB	V	17 00 56 07.6–1.1	35.86N–.05	141.01E–.08	32–6	3.5b,3.5		
JMA	V	17 00 56 08.4–.10	35.85N	140.95E	32–1	3.3,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=25.2km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=7.7km az=155.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(73) El Salvador

ISC	**V**	**17 01 01 33.4–.89**	**13.24N–.06**	**89.61W–.05**	**62–7**	**4.3b**	**120**	**1-147**
ISCJB	V	17 01 01 32.6–.50	13.21N–.04	89.63W–.04	64–4	4.2b		**¶16523249**
CASC	V	17 01 01 33.7–5.9	13.24N	89.60W	55–47	4.5,4.2L		
NEIC	V	17 01 01 35.3–.83	13.34N	89.51W	70–8	4.4,4.4b		
IDC	V	17 01 01 35.5–3.2	13.60N	89.34W	66–30	4.2L,4.1s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=3.2km az=40.2.
CASC Error ellipse: s-maj=24.1km s-min=20.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.2km az=220.0. Felt [III] at San Salvador. Also felt at El Rosario, Ilopango, La Herradura and Zaragoza.
IDC Error ellipse: s-maj=35.7km s-min=13.5km az=56.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 01 03 03.6–1.2**	**37.76N–.03**	**141.06E–.05**	**12–7**	**3.8b**	**23**	**0-77**
ISCJB	V	17 01 03 03.5–.85	37.76N–.03	141.05E–.06	12–5	4.0s,3.7b		**¶16523250**
JMA	V	17 01 03 03.7	37.76N	141.02E	18	4.0,3.7b		
IDC	V	17 01 03 05.5–1.0	37.27N	141.16E	0	4.0,4.0s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.6km az=7.0.
JMA Event type fe.
IDC Error ellipse: s-maj=29.9km s-min=21.7km az=129.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 04 54 48.5–1.3**	**39.30N–.05**	**142.27E–.08**	**43–10**	**4.1b,3.4s**	**43**	**0-88**
NIED	V	17 04 54 00	39.30N	142.20E	47	4.1W,3.4s		**¶16580992**
IDC	V	17 04 54 43.6–1.4	39.62N	142.14E	0	4.0,3.8		
ISCJB	V	17 04 54 47.7–.77	39.29N–.04	142.23E–.09	52–4	4.0b,3.3s		
JMA	V	17 04 54 48.0–.10	39.27N	142.25E	42–1	3.9,3.3s		
NEIC	V	17 04 54 50.4–.83	39.47N	142.17E	56–6	4.6b,3.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ22.00000°,λ73.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ97.00000°. M_o1.68000×10^{15}
IDC Error ellipse: s-maj=37.7km s-min=20.4km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.3km az=19.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=7.1km az=130.0. Recorded [2 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

JMA	**V**	**17 04 57 33.2**	**36.86N**	**140.66E**	**11–1**	**3.5**	
							¶600616218

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 06 04 30.5–2.1**	**39.07N–.05**	**142.43E–.07**	**11–12**	**3.9b**	**27**	**1-63**
NIED	V	17 06 04 00	39.10N	142.40E	38	3.8W		**¶17203790**
ISCJB	V	17 06 04 30.7–1.1	39.09N–.04	142.50E–.07	20–7	3.8b		
IDC	V	17 06 04 32.2–.90	39.56N	142.15E	0	3.9,3.7		
JMA	V	17 06 04 32.2–.10	39.09N	142.42E	31–1	4.0,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ32.00000°,λ-69.00000°. NP2:ϕ_s195.00000°,δ61.00000°,λ-102.00000°. M_o5.22000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.8km az=26.1.
IDC Error ellipse: s-maj=29.7km s-min=17.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 07 49 00.1–1.0**	**35.89N–.05**	**140.91E–.07**	**25–7**	**3.6b**	**24**	**0-91**
IDC	V	17 07 48 56.5–.86	35.87N	141.06E	0	3.7,3.7L		**¶17203801**
ISCJB	V	17 07 48 58.7–.79	35.90N–.05	141.04E–.07	29–5	3.5b,3.7L		
NIED	V	17 07 49 00	35.80N	140.90E	35	3.7W,3.7L		
JMA	V	17 07 49 00.0–.10	35.84N	140.93E	32–1	3.5,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=18.4km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.8km az=148.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ48.00000°,λ-32.00000°. NP2:ϕ_s189.00000°,δ67.00000°,λ-133.00000°. M_o4.42000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(134) Off coast of central Chile

ISC	**V**	**17 10 47 23.4–1.8**	**33.30S–.04**	**72.30W–.06**	**4–10**	**4.3b,4.1s**	**45**	**1-156**
IDC	V	17 10 47 24.2–1.2	33.31S	72.08W	0	4.2L,4.2b		**¶16710100**
SJA	V	17 10 47 25.8–1.4	33.40S	72.23W	10–29	4.5L,4.4W		
GUC	V	17 10 47 26.7–.39	33.30S	72.26W	38–1	4.4L,4.4W		
NEIC	V	17 10 47 28.1–.81	33.33S	72.23W	35	4.5b,4.4W		

ISC Event type fe.
IDC Error ellipse: s-maj=39.4km s-min=21.3km az=90.0.
SJA Error ellipse: s-maj=12.7km s-min=18.4km az=-1.0.
GUC Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=21.6km s-min=11.4km az=89.0. Felt [III] at Constitucion, Navidad, Pichilemu, Quillota, Rancagua and San Antonio; [II] at Linares, Paredones, San Fernando, Santiago and Villa Alemana.

(129) Salta Province

ISC	**V**	**17 12 44 10.8–.35**	**23.52S–.04**	**63.71W–.05**	**545–3**	**4.8b**	**1004**	**1-171**
SCB	V	17 12 44 06.0–.31	22.41S	63.87W	555	4.7L		**¶16527335**
SJA	V	17 12 44 06.2–.56	23.78S	64.12W	590	5.1L,4.6W		
ISCJB	V	17 12 44 09.9–.23	23.40S–.03	63.64W–.03	540–2	4.8b,4.6W		
NEIC	V	17 12 44 10.2–.31	23.49S	63.59W	532–3	4.8b,4.6		
MOS	V	17 12 44 10.3–.97	23.44S	63.59W	540	4.8b,4.6		
GCMT	V	17 12 44 10.2–.50	23.73S	63.40W	556–3	5.4W,4.6		
IDC	V	17 12 44 11.1–.44	23.50S	63.67W	544–4	5.3,4.5		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=10.1km s-min=7.2km az=22.0.
SJA Error ellipse: s-maj=6.3km s-min=20.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=142.4.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.5km az=60.0. Felt at Salta.
MOS Error ellipse: s-maj=12.9km s-min=6.7km az=111.6.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s54,c68;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.11±.06 $M_{\theta\theta}$0.07±.09; $M_{\phi\phi}$1.03±.11; $M_{r\theta}$-0.30±.10; $M_{\theta\phi}$-0.57±.10; $M_{\phi r}$0.87±.10; Best double couple: NP1:ϕ_s159.00000°,δ64.00000°,λ-86.00000°. NP2:ϕ_s330.00000°,δ27.00000°,λ-98.00000°. Principal axes: T 1.6060,Plg19.0000°,Azm246.0000°; N -0.1910,Plg4.0000°,Azm337.0000° ; P -1.4230,Plg71.0000°,Azm78.0000° M_o1.51400×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=7.3km az=60.0.

(162) South Island

WEL	**V**	**17 13 17 55.0–.11**	**43.55S**	**172.19E**	**9–1**	**3.6L**	
							¶16527119

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 13 41 00.7–.83**	**36.28N–.05**	**140.54E–.06**	**54–7**	**3.9b**	**35**	**0-117**
ISCJB	V	17 13 40 59.3–.52	36.26N–.04	140.57E–.06	60–4	3.9b		**¶16525813**
IDC	V	17 13 41 00.9–2.0	36.29N	140.63E	57–17	3.9,3.8		
NIED	V	17 13 41 00	36.30N	140.50E	59	4.1W,3.8		
JMA	V	17 13 41 01.0–.10	36.27N	140.46E	52–1	4.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.4km az=29.0.
IDC Error ellipse: s-maj=16.2km s-min=12.4km az=76.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ21.00000°,λ132.00000°. NP2:ϕ_s0.00000°,δ75.00000°,λ76.00000°. M_o1.45000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s357.00000°,δ66.00000°,λ76.00000°. NP2:ϕ_s209.00000°,δ28.00000°,λ119.00000°. Principal axes: T Plg66.0000°,Azm242.0000°; N Plg13.0000°,Azm3.0000°; P Plg20.0000° ,Azm98.0000°

(145) Southern Chile-Argentina border region

ISC	**V**	**17 14 31 48.9–.76**	**40.53S–.07**	**72.22W–.07**	**10**	**4.0b**	**33**	**1-170**
SJA	V	17 14 31 45.3–.79	41.01S	72.05W	156–55	4.7W,3.5L		**¶16527337**
IDC	V	17 14 31 47.2–1.4	40.70S	72.27W	0	4.6L,4.2		
ISCJB	V	17 14 31 48.3–.61	40.43S–.05	72.15W–.09	10	4.0b,2.7s		
GUC	V	17 14 31 49.1–.46	40.35S	71.58W	138–6	4.6L,2.7s		
NEIC	V	17 14 31 54.7–.95	40.42S	71.80W	45–8	4.6,4.2b		

ISC Event type fe.
SJA Error ellipse: s-maj=8.2km s-min=83.0km az=-1.0.
IDC Error ellipse: s-maj=36.8km s-min=14.8km az=13.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.5km az=163.9.
GUC Error ellipse: s-maj=2.8km s-min=8.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.0km s-min=7.8km az=86.0. Felt [III] at Poblacion Lago Ranco, Puyehue and Rio Bueno.

(35) Near coast of northern California

ISC	**V**	**17 15 20 05.1–1.1**	**39.27N–.03**	**123.21W–.07**	**7**		**26**	**0-6**
ISCJB	V	17 15 20 05.8–.72	39.19N–.04	123.17W–.09	7			**¶16527338**
NEIC	V	17 15 20 06.8	39.23N	123.18W	9	3.7W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=4.8km az=160.7.
NEIC Event type fe. Felt [III] at Potter Valley, Redwood Valley and Ukiah; [II] at Upper Lake and Willits. Also felt at Albion, Boonville, Lakeport, McKinleyville, Point Arena, Rohnert Park and Sacramento. After NCEDC. Moment Tensor Solution. M_o5.10000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**17 15 23 43.1–1.1**	**36.90N–.03**	**140.69E–.04**	**10–7**	**4.0b**	**41**	**0-147**
NIED	V	17 15 23 00	36.90N	140.60E	5	3.7W		**¶16580990**
IDC	V	17 15 23 41.5–.76	36.90N	140.75E	0	3.9,3.8		
ISCJB	V	17 15 23 42.4–.59	36.91N–.03	140.76E–.05	18–4	3.8b,3.8		
JMA	V	17 15 23 42.9	36.92N	140.64E	5–1	3.7,3.8		
NEIC	V	17 15 23 47.0–.89	36.91N	140.65E	41–8	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ45.00000°,λ-62.00000°. NP2:ϕ_s180.00000°,δ52.00000°,λ-115.00000°. M_o4.11000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=14.2km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s173.00000°,δ56.00000°,λ-101.00000°. NP2:ϕ_s12.00000°,δ35.00000°,λ-75.00000°. Principal axes: T Plg11.0000°,Azm271.0000°; N Plg9.0000°,Azm179.0000°; P Plg76.0000° ,Azm51.0000°
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.2km az=126.0.

(227) Eastern Honshu

ISC	**V**	**17 18 35 13.6–1.3**	**39.75N–.05**	**141.8E–.10**	**59–8**	**3.9b**	**15**	**0-64**
NIED	V	17 18 35 00	39.80N	141.90E	50	3.6W		**¶17203831**
ISCJB	V	17 18 35 12.9–.90	39.78N–.05	141.9E–.10	63–5	3.8b		
IDC	V	17 18 35 13.0–1.7	40.17N	140.85E	0	3.8,3.8b		
JMA	V	17 18 35 13.9	39.76N	141.85E	57–1	3.5,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ27.00000°,λ161.00000°. NP2:ϕ_s350.00000°,δ82.00000°,λ65.00000°. M_o2.42000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=7.9km az=3.3.
IDC Error ellipse: s-maj=47.5km s-min=22.0km az=84.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s24.00000°,δ67.00000°,λ102.00000°. NP2:ϕ_s175.00000°,δ26.00000°,λ64.00000°. Principal axes: T Plg66.0000°,Azm316.0000°; N Plg11.0000°,Azm199.0000°; P Plg21.0000° ,Azm105.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**17 19 34 28.7–1.2**	**36.81N–.04**	**140.78E–.05**	**10–7**	**4.0b**	**60**	**0-147**
NIED	V	17 19 34 00	36.90N	140.70E	5	3.9W		**¶16710126**
IDC	V	17 19 34 27.7–.72	36.80N	140.72E	0	3.9,3.9b		
ISCJB	V	17 19 34 28.6–.59	36.84N–.03	140.86E–.05	21–3	4.1b,3.0s		
JMA	V	17 19 34 30.0	36.88N	140.69E	9–1	3.9,3.0s		
NEIC	V	17 19 34 32.7–.69	36.80N	140.75E	38–7	4.5b,3.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ29.00000°,λ-78.00000°. NP2:ϕ_s182.00000°,δ62.00000°,λ-97.00000°. M_o6.73000×10^{14}
IDC Error ellipse: s-maj=15.4km s-min=13.9km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.0km az=26.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ52.00000°,λ-89.00000°. NP2:ϕ_s2.00000°,δ38.00000°,λ-92.00000°. Principal axes: T Plg7.0000°,Azm273.0000°; N Plg1.0000°,Azm3.0000°; P Plg83.0000° ,Azm101.0000°
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.8km az=107.0. Recorded [2 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

JMA	**V**	**17 22 53 40.1–.10**	**36.22N**	**141.01E**	**36–1**	**3.5**		
NIED	V	17 22 53 00	36.20N	141.00E	17	3.3W		**¶600616797**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ50.00000°,λ-152.00000°. NP2:ϕ_s124.00000°,δ69.00000°,λ-44.00000°. M_o8.90000×10^{13}

(228) Near east coast of eastern Honshu

ISC	**V**	**17 23 04 08.2–1.0**	**35.61N–.03**	**140.92E–.06**	**11–6**	**3.8b**	**24**	**0-65**
NIED	V	17 23 04 00	35.60N	140.90E	11	4.0W		**¶17203844**
ISCJB	V	17 23 04 06.6–1.0	35.64N–.04	141.06E–.07	12–5	3.7b		
IDC	V	17 23 04 06.4–.91	35.54N	140.94E	0	3.9,3.7		
JMA	V	17 23 04 07.9–.10	35.63N	140.93E	16–1	3.8,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ37.00000°,λ-85.00000°. NP2:ϕ_s169.00000°,δ53.00000°,λ-94.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.8km az=171.0.
IDC Error ellipse: s-maj=24.5km s-min=20.6km az=85.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**17 23 36 12.9–1.9**	**39.23N–.04**	**142.41E–.07**	**16–11**	**3.6b**	**28**	**1-76**
NIED	V	17 23 36 00	39.20N	142.40E	29	3.7W		**¶600616811**
JMA	V	17 23 36 13.9–.10	39.23N	142.38E	31–1	4.0		
IDC	V	17 23 36 19.4–2.5	39.19N	142.17E	76–24	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ36.00000°,λ-123.00000°. NP2:ϕ_s182.00000°,δ60.00000°,λ-68.00000°. $M_0$4.62000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=28.0km s-min=14.2km az=110.0.

(134) Off coast of central Chile

ISC	**V**	**18 00 43 19.3–.67**	**37.12S–.05**	**73.81W–.08**	**35**	**4.2b**	**52**	**1-160**
IDC	V	18 00 43 13.7–1.7	37.11S	73.83W	0	4.2,4.1L		**¶16710146**
GUC	V	18 00 43 14.7–.46	37.03S	74.05W	39–2	5.3L,4.1L		
NEIC	V	18 00 43 14.0	37.03S	74.05W	39	4.6b,4.1L		
ISCJB	V	18 00 43 17.2–.51	37.13S–.03	73.80W–.06	33	4.2b,3.4s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Arauco; [III] at Concepcion, Hualpen, La Laja, Lebu, San Pedro de la Paz and Talcahuano; [II] at Chiguayante, Los Alamos and Penco. After GUC.
ISCJB Event type fe.

(2) Southern Alaska

ISC	**V**	**18 00 49 14.3–1.1**	**61.54N–.03**	**146.50W–.03**	**29–10**		**89**	**0-43**
IDC	V	18 00 49 09.3–2.5	61.34N	146.75W	0	3.5,3.5L		**¶16710147**
ISCJB	V	18 00 49 13.7–.23	61.56N–.02	146.49W–.04	47–5	3.0b,3.5L		
NEIC	V	18 00 49 15.0	61.54N	146.50W	36	3.3L,3.5L		

ISC Event type fe.
IDC Error ellipse: s-maj=36.8km s-min=12.6km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=32.3.
NEIC Event type fe. Felt at Valdez. After AEIC.

(216) Mariana Islands

ISC	**V**	**18 02 43 20.0–.33**	**13.93N–.04**	**144.81E–.04**	**154–2**	**4.8b**	**506**	**0-156**
MOS	V	18 02 43 19.4–1.2	14.00N	144.73E	158	4.9b		**¶16525128**
ISCJB	V	18 02 43 19.4–.47	13.92N–.03	144.69E–.03	156–4	4.8b		
NEIC	V	18 02 43 21.0–.60	13.93N	144.74E	159–5	4.8b		
IDC	V	18 02 43 20.0–.59	13.97N	144.89E	154–4	4.7,4.4		
GCMT	V	18 02 43 21.0–.20	13.77N	144.76E	156–1	5.3W,4.4		
DJA	V	18 02 43 22.1–.40	14N–4.0	145E–6.0	140–6	5.5b,5.1b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Mangilao and Santa Rita; [III] at Barrigada, Dededo and Hagatna Heights; [II] at Andersen AFB, Apra Harbor, Tamuning and Yigo. Also felt at Agat, Hagatna, Inarajan and Talofofo.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c90; s96,c148;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$0.05±.02; $M_{\theta\phi}$0.06±.02; $M_{r\theta}$-0.01±.02; $M_{\theta\theta}$-0.93±.02; $M_{\theta r}$-0.41±.01; Best double couple: NP1:ϕ_s359.00000°,δ86.00000°,λ-24.00000°. NP2:ϕ_s91.00000°,δ66.00000°,λ-176.00000°. Principal axes: T 1.0600,Plg14.0000°,Azm47.0000°; N -0.0800,Plg65.0000°,Azm171.0000°; P -0.9790,Plg20.0000°,Azm312.0000° $M_0$1.01900×10^{17}

(282) South of Jawa

ISC	**V**	**18 05 01 42.6–.59**	**9.28S–.04**	**112.65E–.04**	**63–5**	**5.0b**	**452**	**1-166**
IDC	V	18 05 01 34.3–.34	9.19S	112.62E	0	5.0,4.9		**¶16525131**
BJI	V	18 05 01 38.7	9.40S	112.60E	50	5.1b,4.9b		
MOS	V	18 05 01 39.0–.89	9.15S	112.65E	46	5.2b,4.9b		
NEIC	V	18 05 01 39.5–.19	9.29S	112.56E	35	5.1b,4.9b		
DJA	V	18 05 01 39.1–.30	10S–3.0	113E–2.0	10	5.8b,5.8b		
KLM	V	18 05 01 41.0	9.59S	112.56E	28	6.3s,5.3L		
ISCJB	V	18 05 01 42.3–.40	9.25S–.03	112.61E–.02	79–3	4.9b,5.3L		

ISC Event type fe.
NEIC Event type fe. Felt at Malang. Also felt at Denpasar and Kuta, Bali.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

JMA	**V**	**18 05 15 05.8–.10**	**38.24N**	**141.82E**	**57–1**	**3.8**		
NIED	V	18 05 15 00	38.20N	141.80E	32	3.7W		**¶600616977**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ68.00000°,λ-162.00000°. NP2:ϕ_s333.00000°,δ73.00000°,λ-23.00000°. $M_0$4.52000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**18 05 26 05.2–1.9**	**37.22N–.04**	**141.19E–.09**	**11–10**	**3.6b**	**19**	**0-57**
ISCJB	V	18 05 26 02.9–1.4	37.23N–.05	141.31E–.07	6–6	3.5b		**¶17203854**
IDC	V	18 05 26 02.7–2.0	37.26N	141.40E	0	3.6,3.5b		
JMA	V	18 05 26 06.3	37.24N	141.11E	15–1	3.4,3.5b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=7.4km az=17.4.
IDC Error ellipse: s-maj=41.2km s-min=27.6km az=64.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 07 23 55.8–.51**	**37.15N–.04**	**141.58E–.05**	**44–4**	**4.4b,3.5s**	**131**	**1-147**
NIED	V	18 07 23 00	37.20N	141.40E	47	4.3W,3.5s		**¶16525827**
MOS	V	18 07 23 53.5–.98	37.25N	141.53E	33	4.7b,3.5s		
ISCJB	V	18 07 23 54.3–.51	37.20N–.03	141.54E–.04	43–4	4.3b,3.5s		
NEIC	V	18 07 23 55.7–.33	37.23N	141.47E	35	4.6b,3.5s		
JMA	V	18 07 23 56.2–.10	37.22N	141.39E	48–1	4.2,3.5s		
IDC	V	18 07 23 57.6–.58	37.30N	141.40E	51–3	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ57.00000°. NP2:ϕ_s43.00000°,δ75.00000°,λ101.00000°. $M_0$3.03000×10^{15}
MOS Error ellipse: s-maj=8.4km s-min=5.8km az=100.2.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=28.7.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=135.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=7.7km az=153.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 09 11 20.2–1.1**	**38.16N–.04**	**141.74E–.08**	**54–10**	**3.7b**	**36**	**0-89**
NIED	V	18 09 11 00	38.20N	141.60E	68	3.8W		**¶17203869**
ISCJB	V	18 09 11 19.7–.67	38.18N–.04	141.70E–.08	66–5	3.6b		
IDC	V	18 09 11 21.3–2.8	38.20N	141.70E	66–27	3.7,3.6		
JMA	V	18 09 11 21.1	38.21N	141.61E	60–1	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ40.00000°,λ95.00000°. NP2:ϕ_s9.00000°,δ50.00000°,λ86.00000°. $M_0$5.40000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.7km az=11.4.
IDC Error ellipse: s-maj=23.9km s-min=16.4km az=86.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 11 16 37.5–1.8**	**38.35N–.04**	**142.19E–.06**	**6–12**	**3.7b**	**24**	**1-62**
NIED	V	18 11 16 00	38.40N	142.20E	32	3.5W		**¶17203875**
IDC	V	18 11 16 36.9–1.3	38.21N	143.09E	0	3.7,3.7		
JMA	V	18 11 16 41.5–.10	38.41N	142.13E	31–1	4.0,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ39.00000°,λ-24.00000°. NP2:ϕ_s255.00000°,δ75.00000°,λ-127.00000°. $M_0$1.93000×10^{14}
IDC Error ellipse: s-maj=39.1km s-min=19.3km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 11 48 27.4–.87**	**36.61N–.04**	**141.01E–.06**	**43–7**	**4.2b,3.4s**	**71**	**0-91**
NIED	V	18 11 48 00	36.60N	141.10E	50	4.2W,3.4s		**¶16529248**
ISCJB	V	18 11 48 26.4–.50	36.60N–.03	141.07E–.05	52–3	4.2b,3.3s		
NEIC	V	18 11 48 26.7–.34	36.62N	141.07E	35	4.5b,3.3s		
JMA	V	18 11 48 27.7–.10	36.60N	140.97E	48–1	4.2,3.3s		
IDC	V	18 11 48 31.4–1.6	36.51N	140.81E	79–15	4.1,4.0		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s80.00000°,δ2.00000°,λ-51.00000°. NP2:ϕ_s221.00000°,δ89.00000°,λ-91.00000°. $M_0$1.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.3km az=18.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=101.0. Felt at Noda. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=8.4km az=70.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 13 32 43.0–.98**	**36.91N–.03**	**140.72E–.05**	**10–6**	**4.3b,3.2s**	**93**	**0-147**
NIED	V	18 13 32 00	36.90N	140.70E	5	4.0W,3.2s		**¶600617234**
IDC	V	18 13 32 41.7–.55	36.87N	140.49E	0	4.2,4.1		
ISCJB	V	18 13 32 42.5–.60	36.91N–.03	140.84E–.05	19–3	4.3b,3.5s		
JMA	V	18 13 32 43.3	36.93N	140.70E	8–1	4.3,3.5s		
NEIC	V	18 13 32 47.0–.71	36.93N	140.67E	38–6	4.5b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ41.00000°,λ-86.00000°. NP2:ϕ_s316.00000°,δ49.00000°,λ-93.00000°. $M_0$1.08000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=12.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.9km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s286.00000°,δ47.00000°,λ-84.00000°. NP2:ϕ_s97.00000°,δ43.00000°,λ-97.00000°. Principal axes: T Plg2.0000°,Azm12.0000°; N Plg5.0000°,Azm102.0000°; P Plg85.0000° ,Azm259.0000°
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=115.0. Recorded [2 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

JMA	**V**	**18 18 59 28.9–.10**	**35.18N**	**140.07E**	**13–3**	**2.9**		
								¶600617435

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 20 39 24.6–2.2**	**38.37N–.05**	**141.96E–.10**	**18–13**		**20**	**0-44**
IDC	V	18 20 39 26.9–3.3	38.34N	142.04E	58–32	3.6,3.4		**¶17203909**
JMA	V	18 20 39 27.9–.10	38.40N	141.78E	58–1	4.1,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=17.7km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(159) North Island

WEL	**V**	**18 23 10 44.3–.06**	**40.61S**	**175.14E**	**42–1**	**4.2L**		
NEIC	V	18 23 10 44.3	40.61S	175.14E	42	4.2L		**¶16528396**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt between Taranaki, Wellington and Hawke''s Bay, maximum reported intensity. MM 4.
NEIC Event type fe. Felt at Manawatu and Wellington. After WEL.

(228) Near east coast of eastern Honshu

ISC	**V**	**18 23 17 30.2–.52**	**37.82N–.03**	**141.98E–.04**	**10**	**4.3b**	**74**	**1-146**
NIED	V	18 23 17 00	37.80N	142.00E	8	4.1W		**¶600617593**
ISCJB	V	18 23 17 28.7–.37	37.77N–.03	142.07E–.03	10	4.4b,3.5s		
IDC	V	18 23 17 29.4–.73	37.82N	141.98E	0	4.1,4.0		
JMA	V	18 23 17 30.9–.10	37.77N	141.97E	24–2	4.2,4.0		
NEIC	V	18 23 17 30.5–3.6	37.79N	142.10E	11–22	4.8b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ-38.00000°. NP2:ϕ_s274.00000°,δ76.00000°,λ-109.00000°. $M_0$1.46000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=140.9.
IDC Error ellipse: s-maj=19.4km s-min=15.0km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=7.2km az=120.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.

(162) South Island

WEL	**V**	**19 02 42 26.7–.05**	**43.61S**	**172.52E**	**11–0**	**3.7L**		
								¶16528397

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(499) Oklahoma

ISC	**V**	**19 02 46 45.6–.88**	**35.58N–.02**	**97.20W–.02**	**14–7**		**122**	**0-8**
ISCJB	V	19 02 46 45.4–.45	35.60N–.01	97.19W–.02	5–4			**¶16529256**
NEIC	V	19 02 46 46.0	35.59N	97.20W	3	2.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.3km az=28.9.
NEIC Event type fe. Felt [III] at Harrah and [II] at Luther. Also felt at Choctaw and Oklahoma City. After TUL.

(224) Hokkaido region

ISC	**V**	**19 03 12 32.0–.60**	**41.54N–.05**	**142.12E–.05**	**59**	**4.0b**	**48**	**1-71**
NIED	V	19 03 12 00	41.60N	142.10E	50	3.8W		**¶17203934**
MOS	V	19 03 12 28.3–.98	41.36N	142.06E	49	4.2b		
ISCJB	V	19 03 12 30.7–.35	41.53N–.04	142.12E–.05	59	3.9b,3.7s		
JMA	V	19 03 12 31.9–.10	41.57N	142.06E	62–2	3.6,3.7s		
IDC	V	19 03 12 32.4–1.8	41.54N	142.13E	67–15	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ26.00000°,λ78.00000°. NP2:ϕ_s24.00000°,δ64.00000°,λ96.00000°. $M_0$6.24000×10^{14}
MOS Error ellipse: s-maj=15.3km s-min=9.4km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.5km az=43.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=12.0km az=113.0.

(227) Eastern Honshu

JMA	**V**	**19 03 13 22.5**	**37.06N**	**140.55E**	**7–1**	**2.6**		
								¶600617704

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 03 41 48.8–1.1**	**40.90N–.04**	**142.06E–.07**	**57–11**	**4.4b**	**21**	**1-66**
NIED	V	19 03 41 00	40.90N	142.10E	56	3.7W		**¶17203938**
ISCJB	V	19 03 41 48.2–.69	40.91N–.04	142.06E–.09	65–7	4.2b		
JMA	V	19 03 41 48.4–.10	40.91N	142.13E	52–2	3.8		
IDC	V	19 03 41 51.7–3.4	41.06N	141.81E	70–27	3.9b,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ61.00000°,λ-6.00000°. NP2:ϕ_s260.00000°,δ85.00000°,λ-151.00000°. $M_0$3.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.9km az=15.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=92.9km s-min=18.9km az=110.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 08 32 48.1–.42**	**38.37N–.03**	**141.90E–.03**	**54–3**	**4.8b,4.0s**	**387**	**0-155**
NIED	V	19 08 32 00	38.30N	141.80E	59	4.7W,4.0s		**¶16528332**
MOS	V	19 08 32 48.5–.95	38.62N	141.67E	53	5.0b,4.0s		
ISCJB	V	19 08 32 48.9–.32	38.39N–.02	141.70E–.03	64–2	4.8b,4.0s		
IDC	V	19 08 32 49.8–1.5	38.32N	141.81E	66–13	4.5,4.4		
NEIC	V	19 08 32 49.9–.57	38.35N	141.66E	60–5	4.8b,4.4		
JMA	V	19 08 32 49.1	38.33N	141.78E	60–1	4.8,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ20.00000°,λ103.00000°. NP2:ϕ_s265.00000°,δ71.00000°,λ85.00000°. $M_0$1.47000×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.6km az=97.4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=38.2.
IDC Error ellipse: s-maj=14.0km s-min=10.1km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.6km az=127.0. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe.

(486) New Madrid region, Missouri

ISC	**V**	**19 08 41 08.9–1.7**	**36.76N–.03**	**90.81W–.06**	**2–12**		**30**	**1-3**
NEIC	V	19 08 41 10.5	36.82N	90.79W	9	2.5		**¶17340844**

ISC Event type fe.
NEIC Event type fe. Felt at Festus, Poplar Bluff and Wentzville. After CERI.

(221) Kuril Islands

ISC	**V**	**19 08 55 02.6–.71**	**44.38N–.05**	**149.29E–.04**	**34–2**	**4.7b,4.3s**	**677**	**1-152**
NIED	V	19 08 55 00	44.50N	149.10E	38	5.0W,4.3s		**¶16529262**
ISCJB	V	19 08 55 00.2–.41	44.30N–.03	149.31E–.03	35–3	4.6b,4.3s		
MOS	V	19 08 55 01.4–1.2	44.40N	149.19E	40	4.8b,4.3s		
SKHL	V	19 08 55 02.1–.80	44.33N	149.31E	48–5	5.5b,5.1s		
JMA	V	19 08 55 02.4–.60	44.52N	149.12E	30	4.9,5.1s		
IDC	V	19 08 55 03.2–2.3	44.39N	149.20E	46–21	4.4,4.3		
NEIC	V	19 08 55 03.7–.53	44.37N	149.13E	47–4	4.7b,4.3		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ36.00000°,λ-5.00000°. NP2:ϕ_s252.00000°,δ87.00000°,λ-126.00000°. $M_0$3.30000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=155.7.
MOS Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=96.7. Felt (II-III) at Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (II-III) at Kurilsk.
JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=11.0km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.1km az=154.0. Felt [III] at Kuril'sk.

(229) Off east coast of Honshu

ISC	**V**	**19 09 12 46.6–.30**	**37.26N–.03**	**142.67E–.03**	**28–1**	**5.3b,5.2s**	**876**	**1-154**
NIED	V	19 09 12 00	37.20N	142.80E	17	5.2W,5.2s		**¶16528398**
IDC	V	19 09 12 42.1–.38	37.13N	142.86E	0	4.9,4.9		
ISCJB	V	19 09 12 43.4–.72	37.14N–.02	142.71E–.02	15–5	5.2b,5.2s		
JMA	V	19 09 12 43.7–.20	37.17N	142.85E	42	5.5,5.2s		
BJI	V	19 09 12 45.3	37.32N	142.51E	22	5.4s,5.3		
GCMT	V	19 09 12 48.5–.20	37.24N	142.76E	15	5.3W,5.3		
MOS	V	19 09 12 48.2–1.0	37.64N	142.62E	33	5.2b,5.2s		
NEIC	V	19 09 12 48.5–.52	37.12N	142.67E	40–4	5.4b,5.2s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ46.00000°,λ-159.00000°. NP2:ϕ_s219.00000°,δ75.00000°,λ-46.00000°. $M_0$7.59000×10^{16}
IDC Error ellipse: s-maj=12.0km s-min=9.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=156.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c87; s100,c166; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.09±.01 $M_{\theta\theta}$-0.35±.01; $M_{\phi\phi}$0.43±.01; $M_{r\theta}$0.94±.04; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$0.69±.04; Best double couple: NP1:ϕ_s233.00000°,δ88.00000°,λ-70.00000°. NP2:ϕ_s330.00000°,δ20.00000°,λ-173.00000°. Principal axes: T 1.2510,Plg40.0000°,Azm305.0000°; N -0.0110,Plg20.0000°,Azm53.0000°; P -1.2410,Plg44.0000°,Azm163.0000° $M_0$1.24600×10^{17}
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=135.0. Felt at Ichinoseki. Recorded [2 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 09 58 23.6–1.3**	**36.69N–.04**	**141.18E–.08**	**41–11**	**3.8b**	**32**	**0-147**
NIED	V	19 09 58 00	36.70N	141.00E	32	3.7W		**¶600617887**
ISCJB	V	19 09 58 22.4–.74	36.68N–.03	141.22E–.08	48–6	3.8b		
JMA	V	19 09 58 24.7–.10	36.71N	141.04E	48–1	3.7		
IDC	V	19 09 58 27.7–2.4	36.55N	140.98E	80–22	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ43.00000°,λ54.00000°. NP2:ϕ_s39.00000°,δ56.00000°,λ119.00000°. $M_0$3.66000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.5km az=13.9.
JMA Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=10.5km az=64.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 12 12 16.0–1.7**	**36.03N–.04**	**141.16E–.06**	**3–11**	**3.8b,3.6s**	**35**	**0-147**
NIED	V	19 12 12 00	36.00N	141.20E	47	4.1W,3.6s		**¶16710294**
ISCJB	V	19 12 12 15.8–1.0	36.01N–.03	141.29E–.07	17–7	3.8b,3.6s		
IDC	V	19 12 12 15.6–.69	35.98N	141.13E	0	3.9,3.9b		
JMA	V	19 12 12 18.2–.10	35.99N	141.10E	34–2	4.1,3.9b		
NEIC	V	19 12 12 20.5–.45	35.95N	141.09E	35	4.1b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ15.00000°,λ-126.00000°. NP2:ϕ_s12.00000°,δ78.00000°,λ-81.00000°. $M_0$1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.5km az=3.7.
IDC Error ellipse: s-maj=18.0km s-min=13.9km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=8.8km az=79.0. Recorded [2 JMA] in Chiba and Ibaraki.

(23) British Columbia

PGC	**V**	**19 13 05 15.2**	**59.49N**	**122.41W**	**10**	**4.2L,3.6W**	
NEIC	V	19 13 05 15.2	59.49N	122.41W	10	3.6W,3.5b	**¶16548960**

PGC Event type fe. 76km Nne of Fort Nelson, Bc British Columbia, Canada Felt at 59.5N 122.4W by workers "in the bush".
NEIC Event type fe. Felt in the epicentral area. After OTT. Moment Tensor Solution. $M_0$3.60000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**19 13 42 27.7–.57**	**36.71N–.03**	**140.54E–.05**	**10**	**3.5b**	**29**	**0-91**
ISCJB	V	19 13 42 26.0–.45	36.70N–.03	140.64E–.05	10	3.5b		**¶16530091**
JMA	V	19 13 42 26.2	36.70N	140.63E	6–1	3.2		
IDC	V	19 13 42 26.3–.65	36.70N	140.51E	0	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=19.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s0.00000°,δ56.00000°,λ-74.00000°. NP2:ϕ_s152.00000°,δ37.00000°,λ-113.00000°. Principal axes: T Plg10.0000°,Azm78.0000°; N Plg14.0000°,Azm170.0000°; P Plg73.0000°,Azm313.0000°
IDC Error ellipse: s-maj=19.6km s-min=14.8km az=118.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 14 01 45.8–1.5**	**38.57N–.05**	**142.0E–.10**	**45–14**	**3.9b**	**18**	**0-59**
NIED	V	19 14 01 00	38.60N	141.90E	53	3.9W		**¶17203973**
ISCJB	V	19 14 01 44.6–1.1	38.56N–.05	142.0E–.10	50–9	3.7b		
IDC	V	19 14 01 46.8–2.4	38.55N	142.13E	63–22	3.7,3.5		
JMA	V	19 14 01 46.6–.10	38.62N	141.89E	47–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ21.00000°,λ109.00000°. NP2:ϕ_s27.00000°,δ70.00000°,λ83.00000°. $M_0$6.75000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=7.1km az=17.8.
IDC Error ellipse: s-maj=35.9km s-min=15.4km az=99.0.
JMA Event type fe.

(120) Central Bolivia

ISC	**V**	**19 15 00 45.3–.71**	**17.30S–.06**	**64.54W–.04**	**10**	**4.7b**	**33**	**3-149**
SCB	V	19 15 00 42.5–.13	17.47S	64.40W	25	4.2L		**¶16710305**
ISCJB	V	19 15 00 43.4–2.0	17.38S–.05	64.24W–.05	8–13	4.7b		
IDC	V	19 15 00 44.8–1.3	17.27S	64.48W	0	4.2L,4.1		
NEIC	V	19 15 00 49.6–.86	17.35S	64.48W	40–9	4.8b,4.1		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=7.9km az=24.5.
IDC Error ellipse: s-maj=38.7km s-min=13.2km az=176.0.
NEIC Event type fe. Error ellipse: s-maj=14.0km s-min=8.5km az=130.0. Felt at Mizque.

(228) Near east coast of eastern Honshu

JMA	**V**	**19 15 48 18.3–.10**	**39.71N**	**142.13E**	**46–1**	**3.5**		
NIED	V	19 15 48 00	39.70N	142.10E	65	3.6W		**¶600618150**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ18.00000°,λ78.00000°. NP2:ϕ_s341.00000°,δ73.00000°,λ94.00000°. $M_0$3.25000×10^{14}

(135) Near coast of central Chile

ISC	**V**	**19 17 05 11.3–.27**	**34.75S–.03**	**71.66W–.05**	**46–2**	**5.2b,4.4s**	**895**	**0-179**
MOS	V	19 17 05 10.9–1.2	34.75S	71.72W	50	5.4b,4.4s		**¶16529269**
BJI	V	19 17 05 11.5	34.70S	71.50W	46	5.3s,5.0b		
IDC	V	19 17 05 11.2–.36	34.67S	71.66W	47–2	5.0,4.8		
NEIC	V	19 17 05 11.0	34.75S	71.67W	36	5.2b,4.8		
GUC	V	19 17 05 11.3–.66	34.75S	71.67W	36–3	5.2L,4.8		
GCMT	V	19 17 05 11.6–.20	34.63S	71.95W	53–1	5.2W,4.8		
ISCJB	V	19 17 05 12.0–.39	34.76S–.02	71.63W–.05	68–3	5.0b,4.8		
SJA	V	19 17 05 15.4–.49	34.43S	71.59W	127–8	5.1W,5.0L		

ISC Event type fe.
MOS Error ellipse: s-maj=17.5km s-min=7.4km az=101.3.
IDC Error ellipse: s-maj=14.9km s-min=10.3km az=70.0.
NEIC Event type fe. Felt [VI] at Constitucion and [V] at Cauquenes, Hualane, Linares, Longavi, Maule, Molina, Paredones, Parral, Pichilemu, San Clemente and Talca. Felt widely in central Chile from Los Andes to Los Angeles. Felt at Mendoza, Argentina. After GUC.
GUC Error ellipse: s-maj=1.4km s-min=4.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c86; s71,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.58±.20 $M_{\theta\theta}$0.59±.17; $M_{\phi\phi}$-6.17±.16; $M_{r\theta}$1.74±.14; $M_{\theta\phi}$-0.34±.14; $M_{\phi r}$-3.57±.16; Best double couple: NP1:ϕ_s167.00000°,δ62.00000°,λ74.00000°. NP2:ϕ_s19.00000°,δ32.00000°,λ118.00000°. Principal axes: T 7.0620,Plg68.0000°,Azm44.0000°; N 0.1140,Plg14.0000°,Azm175.0000°; P -7.1720,Plg16.0000°,Azm269.0000° $M_0$7.11700×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.7km az=7.0.
SJA Error ellipse: s-maj=9.1km s-min=12.2km az=-1.0.

(40) California-Nevada border region

ISC	**V**	**19 17 23 50.7–.97**	**38.41N–.04**	**118.74W–.04**	**9**		**20**	**1-5**
ISCJB	V	19 17 23 50.9–.71	38.47N–.04	118.81W–.06	9			**¶16722572**
NEIC	V	19 17 23 50.5	38.42N	118.74W	4	3.3L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.0km az=16.9.
NEIC Event type fe. Felt at Hawthorne. After REN.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 19 41 59.1–1.8**	**37.22N–.04**	**141.19E–.08**	**9–10**	**3.4b**	**24**	**0-57**
NIED	V	19 19 41 00	37.20N	141.10E	5	3.5W		**¶17203991**
ISCJB	V	19 19 41 57.9–1.2	37.22N–.04	141.25E–.07	12–5	3.4b		
IDC	V	19 19 41 57.8–1.2	37.19N	141.14E	0	3.5,3.5		
JMA	V	19 19 41 59.8	37.23N	141.14E	13–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ38.00000°,λ-136.00000°. NP2:ϕ_s67.00000°,δ65.00000°,λ-61.00000°. $M_0$2.26000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.8km az=9.1.
IDC Error ellipse: s-maj=22.3km s-min=16.4km az=139.0.
JMA Event type fe.

(366) Turkey

ISC	**V**	**19 20 15 25.1–.36**	**39.13N–.01**	**29.07E–.01**	**12–2**	**5.8b,5.8s**	**3029**	**0-164**
GCMT	V	19 20 15 22.9–.10	39.08N	29.11E	12–0	5.9W,5.8s		**¶602607377**
NEIC	V	19 20 15 22.9	39.15N	29.10E	7	6.2L,5.9L		
DDA	V	19 20 15 22.8	39.13N	29.08E	24	5.7L,5.9L		
MOS	V	19 20 15 22.8–1.1	39.20N	29.09E	9	6.0b,5.8s		
BJI	V	19 20 15 22.1	39.10N	29.00E	10	6.1s,6.0b		
ISCJB	V	19 20 15 22.1–.24	39.126N–.01	29.122E–.01	6–1	5.7s,5.7b		
SFS	V	19 20 15 22.0	39.15N	29.10E	7	5.8L,5.7b		
IDC	V	19 20 15 22.8–.29	39.13N	29.10E	0	5.5,5.5s		
PDA	V	19 20 15 23.0	39.15N	29.10E	7	5.9L,5.5s		
NEIC	V	19 20 15 23.0–.00	39.11N	29.12E	15	5.9L,5.5s		
CSEM	V	19 20 15 23.4–.04	39.14N	29.13E	2	5.8s,5.8b		
ISN	V	19 20 15 23.3–.96	39.15N	29.29E	0–90	5.8L,5.8b		
THE	V	19 20 15 23.8	39.11N	29.12E	1–0	6.1L,5.8b		
ISK	V	19 20 15 23.0	39.16N	29.10E	8	5.9L,5.8b		
PDG	V	19 20 15 23.7–.68	39.16N	29.07E	13–1	6.0,5.9L		
GII	V	19 20 15 25.3–.00	38.77N	28.95E	1	5.2,5.1b		
NIC	V	19 20 15 26.4–.50	38.92N	28.74E	25	5.3b,5.1L		
SOF	V	19 20 15 28.3	39.64N	28.93E	2	4.5,5.1L		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c267; s136,c438;Duration: 2s2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.89±.01; $M_{\phi\phi}$-0.08±.01; $M_{r\theta}$0.03±.01; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-0.05±.02; Best double couple: NP1:ϕ_s286.00000°,δ46.00000°,λ-85.00000°. NP2:ϕ_s98.00000°,δ44.00000°,λ-96.00000°. Principal axes: T 0.9390,Plg1.0000°,Azm12.0000°; N -0.1280,Plg4.0000°,Azm102.0000°; P -0.8110,Plg86.0000°,Azm264.0000° $M_0$0.87500×10^{18}
NEIC Event type fe. Felt [VI] at Simav and [V] at Kutahya and Usak. Felt throughout western Turkey and as far as Adana and Corum. Felt [III] at Burgas and [II] at Plovdiv and Sofia, Bulgaria. Felt at Alexandroupoli, Mitilini, Orestias and Souflion, Greece. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After ISK. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.05 $M_{\theta\theta}$6.23 $M_{\phi\phi}$-1.17 $M_{r\theta}$2.07 $M_{\theta\phi}$-2.31 $M_{\phi r}$1.90 Best double couple: NP1:ϕ_s262.00000°,δ58.00000°,λ-122.00000°. NP2:ϕ_s131.00000°,δ44.00000°,λ-50.00000°. Principal axes: T 7.0800,Plg7.0000°,Azm14.0000°; N -0.6200,Plg27.0000°,Azm280.0000°; P -6.4600,Plg62.0000°,Azm118.0000° $M_0$6.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s37.00000°,δ46.00000°,λ-144.00000°. NP2: ϕ_s280.00000°,δ65.00000°,λ-50.00000°. Principal axes: T Plg11.0000°,Azm342.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm238.0000°
DDA Event type ke.
MOS Error ellipse: s-maj=3.7km s-min=2.6km az=103.8.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.2km az=23.5.
SFS Event type ke.
IDC Error ellipse: s-maj=7.5km s-min=7.0km az=171.0.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.49 $M_{\theta\theta}$5.79 $M_{\phi\phi}$0.70 $M_{r\theta}$-1.73 $M_{\theta\phi}$-1.24 $M_{\phi r}$1.46 Best double couple: NP1:ϕ_s111.00000°,δ54.00000°,λ-80.00000°. NP2:ϕ_s275.00000°,δ37.00000°,λ-102.00000°. Principal axes: T 6.3900,Plg8.0000°,Azm194.0000°; N 0.5500,Plg7.0000°,Azm285.0000°; P -6.9500,Plg78.0000°,Azm55.0000° $M_0$6.70000×10^{17}
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=21.0.
ISN Error ellipse: s-maj=30.2km s-min=88.1km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=65.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
GII Event type ke.

(40) California-Nevada border region

ISC	**V**	**19 21 00 11.9–1.2**	**37.15N–.03**	**117.37W–.03**	**12–12**		**23**	**0-4**
NEIC	V	19 21 00 12.0	37.16N	117.38W	14	3.4L		**¶16853816**

ISC Event type fe.
NEIC Event type fe. Felt at Las Vegas. Also felt at Death Valley, California. After REN.

(366) Turkey

ISC	**V**	**19 21 12 51.5–.86**	**39.11N–.02**	**29.04E–.01**	**9–5**	**4.3b**	**786**	**0-116**
ISN	V	19 21 12 49.9–1.2	39.15N	29.13E	0–108	4.6L		**¶16530707**
IDC	V	19 21 12 49.2–.61	39.07N	28.98E	0	4.2,4.1		
ISCJB	V	19 21 12 50.6–.35	39.09N–.01	29.06E–.01	11–2	4.3b,3.9s		
DDA	V	19 21 12 50.7	39.11N	29.04E	8	4.8L,3.9s		
MOS	V	19 21 12 50.1–1.1	39.15N	29.05E	8	4.6b,3.9s		
ISK	V	19 21 12 50.9	39.11N	29.04E	6	4.6L,3.9s		
CSEM	V	19 21 12 51.3–.06	39.09N	29.07E	5	4.5b,3.9s		
NEIC	V	19 21 12 51.0	39.12N	29.04E	7	4.6L,4.6L		
THE	V	19 21 12 52.0	39.09N	29.01E	0–1	4.6L,4.6L		
NIC	V	19 21 12 53.0–.30	38.99N	28.83E	25	4.7b,4.3L		
GII	V	19 21 12 53.7–.22	38.79N	28.84E	10	4.2b,3.8		

ISC Event type fe.
ISN Error ellipse: s-maj=36.3km s-min=105.7km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=9.5km az=9.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.7km az=135.6.
DDA Event type ke.
MOS Error ellipse: s-maj=4.5km s-min=3.7km az=99.1.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=47.0.
NEIC Event type fe. Felt [IV] at Kutahya; [III] at Bursa, Buyukcekmece and Izmir; [II] at Istanbul. Also felt at Adapazari, Antalya, Balikesir, Corlu, Esenyurt, Eskisehir, Mudanya, Selcuk, Sindirgi, Soma, Sultanbeyli, Tire and Usak. After ISK.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=57.0.
GII Event type ke.

(228) Near east coast of eastern Honshu

ISC	**V**	**19 22 02 05.7–.84**	**38.80N–.05**	**142.43E–.06**	**26–4**	**3.7b**	**29**	**1-63**
NIED	V	19 22 02 00	38.80N	142.40E	35	4.1W		**¶17203996**
ISCJB	V	19 22 02 05.9–1.2	38.80N–.05	142.5E–.10	44–10	3.7b		
JMA	V	19 22 02 06.3–.10	38.83N	142.41E	34–2	3.8		
IDC	V	19 22 02 07.1–.91	38.71N	142.55E	41–8	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ24.00000°,λ37.00000°. NP2:ϕ_s332.00000°,δ76.00000°,λ110.00000°. $M_0$1.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=7.0km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.0km s-min=15.8km az=96.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**19 23 52 51.5**	**36.94N**	**140.74E**	**12–1**	**3.5**		
								¶600618583

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s350.00000°,δ53.00000°,λ-109.00000°. NP2:ϕ_s199.00000°,δ41.00000°,λ-67.00000°. Principal axes: T Plg6.0000°,Azm93.0000°; N Plg15.0000°,Azm1.0000°; P Plg74.0000°,Azm204.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**20 00 02 13.3–1.3**	**36.23N–.08**	**140.54E–.08**	**53–8**	**3.5b**	**22**	**0-56**
IDC	V	20 00 02 03.9–2.3	36.47N	141.18E	0	3.7,3.6		**¶17203999**
ISCJB	V	20 00 02 12.3–.95	36.22N–.06	140.55E–.08	59–5	3.5b,3.6		
JMA	V	20 00 02 13.8–.10	36.25N	140.48E	52–1	3.1,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=58.0km s-min=26.8km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=8.4km az=137.7.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**V**	**20 00 10 12.2–.49**	**37.81N–.04**	**142.14E–.05**	**41–4**	**4.4b,3.7s**	**118**	**1-146**
NIED	V	20 00 10 00	37.80N	142.10E	38	4.3W,3.7s		**¶16530710**
ISCJB	V	20 00 10 09.8–.65	37.82N–.03	142.23E–.05	35–5	4.5b,3.8s		
JMA	V	20 00 10 10.7–.20	37.81N	142.06E	33–4	4.4,3.8s		
IDC	V	20 00 10 12.4–.50	37.80N	142.06E	42–4	4.1,4.0		
NEIC	V	20 00 10 12.6–.57	37.83N	142.24E	46–5	4.7b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s84.00000°,δ3.00000°,λ-60.00000°. NP2:ϕ_s234.00000°,δ87.00000°,λ-92.00000°. $M_0$2.72000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.7km az=26.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=9.6km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.9km az=124.0. Recorded [2 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 00 46 16.4–.32**	**35.82N–.02**	**141.05E–.03**	**28–1**	**5.7b,5.4s**	**1986**	**0-162**
NIED	V	20 00 46 00	35.80N	141.30E	32	5.7W,5.4s		**¶16529675**
IDC	V	20 00 46 12.4–.33	35.78N	141.03E	0	5.5,5.5		
BJI	V	20 00 46 14.1	35.73N	141.02E	35	5.7s,5.6		
MOS	V	20 00 46 15.6–.86	35.78N	140.99E	33	6.0b,5.5s		
JMA	V	20 00 46 15.4–.10	35.80N	141.18E	36–1	5.8,5.5s		
NEIC	V	20 00 46 16.0–.00	35.94N	141.38E	26	5.8,5.5s		
NEIC	V	20 00 46 16.9–.10	35.76N	140.84E	29	5.8W,5.7		
GCMT	V	20 00 46 17.0–.10	35.74N	141.22E	37–0	5.8W,5.7		
ISCJB	V	20 00 46 17.0–.24	35.73N–.01	140.91E–.01	43–2	5.7b,5.4s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s13.00000°,δ74.00000°,λ93.00000°. $M_0$3.95000×10^{17}
JMA Event type fe.
NEIC Event type se. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}3.00 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-2.80 $M_{r\theta}$2.90 $M_{\theta\phi}$-0.70 $M_{\phi r}$5.70 Best double couple: NP1:ϕ_s25.00000° ,δ77.00000°,λ95.00000°. NP2:ϕ_s183.00000°,δ13.00000°,λ68.00000°. Principal axes: T 7.1000,Plg57.0000°,Azm301.0000°; N -0.1000,Plg4.0000°,Azm204.0000° ; P -7.0000,Plg32.0000°,Azm111.0000° $M_0$7.00000×10^{17}
NEIC Event type fe. Felt [II] at Tokyo. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s52 Moment tensor: Scale 10^{17} Nm; M_{rr}2.68 $M_{\theta\theta}$-1.21 $M_{\phi\phi}$-1.46 $M_{r\theta}$1.03 $M_{\theta\phi}$0.35 $M_{\phi r}$2.59 Best double couple: NP1: ϕ_s168.00000°,δ20.00000°,λ67.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ98.00000°. Principal axes: T 4.1400,Plg62.0000°,Azm295.0000°; N -1.4200,Plg8.0000°,Azm190.0000° ; P -2.7200,Plg26.0000°,Azm96.0000° $M_0$3.60000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c236; s130,c345;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}4.38±.05 $M_{\theta\theta}$-0.50±.04; $M_{\phi\phi}$-3.88±.04; $M_{r\theta}$1.02±.05; $M_{\theta\phi}$-1.34±.03; $M_{\phi r}$3.63±.06; Best double couple: NP1:ϕ_s17.00000°,δ65.00000°,λ88.00000°. NP2:ϕ_s201.00000° ,δ25.00000°,λ94.00000°. Principal axes: T 5.7870,Plg70.0000°,Azm283.0000° ; N -0.0370,Plg2.0000°,Azm18.0000°; P -5.7460,Plg20.0000°,Azm108.0000° $M_0$5.76700×10^{17}
ISCJB Event type fe.

(99) Northern Colombia

ISC	**V**	**20 03 14 50.1–.37**	**6.77N–.03**	**72.98W–.03**	**160–3**	**4.6b**	**776**	**0-154**
ISCJB	V	20 03 14 49.1–.18	6.75N–.02	72.97W–.02	167–1	4.6b		**¶16530711**
NEIC	V	20 03 14 50.5–.14	6.73N	72.91W	164	4.7b		
IDC	V	20 03 14 50.2–.39	6.73N	72.95W	161–3	4.7,4.3		
FUNV	V	20 03 14 51.1	6.80N	73.07W	168	4.6W,4.3		
RSNC	V	20 03 14 52.7–.91	6.77N	73.13W	142–5	4.9L,4.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=150.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.9km az=49.0. Felt [II] at Bucaramanga and Medellin. Also felt at Bogota, Cucuta, Piedecuesta and Valledupar.
IDC Error ellipse: s-maj=8.4km s-min=6.0km az=113.0.
RSNC Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 03 50 17.9–.77**	**37.04N–.04**	**141.34E–.07**	**39–3**	**4.2b**	**38**	**0-147**
NIED	V	20 03 50 00	37.10N	141.20E	59	3.9W		**¶16591596**
ISCJB	V	20 03 50 17.1–.69	37.05N–.04	141.34E–.07	50–5	4.0b		
NEIC	V	20 03 50 18.4–.76	37.03N	141.30E	44–7	4.3b		
IDC	V	20 03 50 19.2–1.8	37.04N	141.26E	46–17	3.8,3.8L		
JMA	V	20 03 50 19.2–.10	37.07N	141.17E	50–1	3.9,3.8L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ18.00000°,λ85.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ92.00000°. $M_0$7.40000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.4km az=17.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.8km az=105.0.
IDC Error ellipse: s-maj=16.6km s-min=12.5km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(90) Puerto Rico region

ISC	**V**	**20 03 54 53.4–.93**	**17.85N–.04**	**65.59W–.02**	**19–3**	**3.7b**	**114**	**0-65**
IDC	V	20 03 54 50.4–.88	17.83N	65.76W	0	4.0L,3.7		**¶16530096**
ISCJB	V	20 03 54 52.9–.45	17.81N–.04	65.60W–.02	25–4	3.6b,3.7		
RSPR	V	20 03 54 54.2	17.88N	65.60W	6–1	3.9,3.7		
NEIC	V	20 03 54 54.2	17.88N	65.60W	6	4.0b,3.9		

ISC Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=11.5km az=39.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.3km az=16.9.
RSPR Event type ke.
NEIC Event type fe. Felt at Aguadilla, Aguas Buenas, Gurabo, Humacao, Isabela, Mayaguez, Naguabo, Rio Grande, Sabana Grande and San Juan. After RSPR.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 04 48 02.8–.99**	**36.66N–.05**	**140.48E–.06**	**6–8**	**3.7b**	**15**	**0-65**
ISCJB	V	20 04 48 01.7–1.1	36.62N–.07	140.70E–.09	12–4	3.6b		**¶17204014**
IDC	V	20 04 48 02.1–1.1	36.73N	140.56E	0	3.7,3.6		
JMA	V	20 04 48 03.0	36.68N	140.56E	3–1	3.4,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=7.0km az=41.0.
IDC Error ellipse: s-maj=22.1km s-min=14.2km az=161.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 07 28 45.6–.25**	**37.46N–.03**	**141.59E–.03**	**28–1**	**5.2b,4.4s**	**916**	**1-150**
NIED	V	20 07 28 00	37.50N	141.50E	41	5.0W,4.4s		**¶16530103**
BJI	V	20 07 28 43.2	37.12N	141.51E	37	5.1b,4.9b		
MOS	V	20 07 28 44.4–1.1	37.49N	141.53E	33	5.3b,4.2s		
ISCJB	V	20 07 28 45.8–.39	37.43N–.02	141.46E–.02	38–3	5.1b,4.4s		
JMA	V	20 07 28 46.4–.10	37.45N	141.48E	41–2	5.2,4.4s		
IDC	V	20 07 28 47.2–.29	37.45N	141.51E	40–2	4.7,4.5		
GCMT	V	20 07 28 48.2–.20	37.49N	141.54E	41–1	5.1W,4.5		
NEIC	V	20 07 28 48.1–.46	37.44N	141.41E	43–4	5.2b,4.5		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ64.00000°,λ-20.00000°. NP2:ϕ_s298.00000°,δ72.00000°,λ-152.00000°. $M_0$3.92000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=95.4.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=138.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=7.9km s-min=6.2km az=109.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c51; s100,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.20 $M_{\theta\theta}$-1.83±.13; $M_{\phi\phi}$3.34±.14; $M_{r\theta}$2.85±.13; $M_{\theta\phi}$-2.72±.09; $M_{\phi r}$0.13±.11; Best double couple: NP1:ϕ_s298.00000°,δ73.00000° ,λ-144.00000°. NP2:ϕ_s195.00000°,δ56.00000°,λ-21.00000°. Principal axes: T 4.6980,Plg11.0000°,Azm63.0000°; N 0.3660,Plg50.0000°,Azm320.0000° ; P -5.0650,Plg38.0000°,Azm161.0000° $M_0$4.88200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=134.0. Felt at Fuchu, Narita and Tsukuba. Recorded [4 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 08 53 03.2–.47**	**35.91N–.03**	**140.09E–.03**	**71–3**	**4.8b**	**529**	**0-152**
NIED	V	20 08 53 00	36.00N	140.10E	68	4.7W		**¶16530156**
IDC	V	20 08 53 03.1–1.6	35.93N	140.06E	66–13	4.7,4.4		
JMA	V	20 08 53 03.9–.10	35.99N	140.09E	64–1	4.6,4.4		
ISCJB	V	20 08 53 03.3–.25	35.90N–.02	139.96E–.02	78–2	4.7b,4.4		
NEIC	V	20 08 53 05.2–.45	35.91N	139.93E	81–4	4.7b,4.4		
MOS	V	20 08 53 05.5–.89	36.33N	139.91E	81	4.9b,4.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s4.00000°,δ68.00000°,λ90.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=8.8km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000°,δ61.00000°,λ86.00000°. NP2: ϕ_s187.00000°,δ29.00000°,λ98.00000°. Principal axes: T Plg74.0000°,Azm258.0000° ; N Plg4.0000°,Azm1.0000°; P Plg16.0000°,Azm92.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.1km az=38.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.9km az=137.0. Felt [II] at Tokyo. Also felt in Chiba, Kanagawa, Saitama and Tokyo. Recorded [4 JMA] in Ibaraki.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=110.9.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 11 04 23.0–1.2**	**35.84N–.05**	**141.04E–.09**	**28–8**		**16**	**0-60**
IDC	V	20 11 04 19.6–1.8	35.72N	141.09E	0	3.6,3.6		**¶17204032**
ISCJB	V	20 11 04 21.5–1.0	35.81N–.04	141.1E–.10	34–10	3.6b,3.6		
JMA	V	20 11 04 24.0–.10	35.82N	140.92E	30–1	3.1,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=42.4km s-min=23.5km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=7.0km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 11 16 02.0–1.5**	**36.29N–.04**	**141.17E–.06**	**24–11**	**3.9b**	**35**	**1-71**
NIED	V	20 11 16 00	36.30N	141.00E	38	3.9W		**¶17204034**
JMA	V	20 11 16 03.7–.10	36.32N	141.05E	45–2	3.9		
IDC	V	20 11 16 04.7–1.9	36.31N	141.14E	42–18	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ16.00000°,λ153.00000°. NP2:ϕ_s17.00000°,δ83.00000°,λ76.00000°. $M_0$6.83000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=10.1km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 11 42 15.8–1.4**	**38.16N–.05**	**141.80E–.09**	**48–11**	**4.0b**	**43**	**0-84**
NIED	V	20 11 42 00	38.20N	141.70E	56	4.0W		**¶17204037**
ISCJB	V	20 11 42 14.8–.74	38.17N–.04	141.79E–.08	56–5	4.0b,3.3s		
IDC	V	20 11 42 16.6–2.2	38.21N	141.86E	56–19	3.9,3.8		
JMA	V	20 11 42 16.3–.10	38.18N	141.70E	51–1	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ22.00000°,λ90.00000°. NP2:ϕ_s12.00000°,δ68.00000°,λ90.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=4.6km az=21.7.
IDC Error ellipse: s-maj=22.9km s-min=13.7km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 12 31 21.5–1.3**	**38.71N–.04**	**141.76E–.08**	**63–9**		**29**	**0-59**
ISCJB	V	20 12 31 20.4–.77	38.72N–.04	141.74E–.07	68–6	3.9b		**¶17204042**
IDC	V	20 12 31 20.4–3.4	38.64N	142.19E	58–39	3.7,3.6		
JMA	V	20 12 31 21.7	38.73N	141.65E	64–1	3.4,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=18.1.
IDC Error ellipse: s-maj=61.6km s-min=27.7km az=110.0.
JMA Event type fe.

(2) Southern Alaska

ISC	**V**	**20 12 51 50.6–.62**	**59.94N–.04**	**153.30W–.04**	**135–5**	**4.2b**	**147**	**0-83**
ISCJB	V	20 12 51 49.2–.18	59.94N–.02	153.33W–.04	138–2	4.1b		**¶16530715**
NEIC	V	20 12 51 51.2	59.89N	153.27W	137	4.8b		
IDC	V	20 12 51 51.6–2.1	60.15N	153.36W	135–19	4.2,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=136.6.
NEIC Event type fe. Felt at Anchorage. After AEIC.
IDC Error ellipse: s-maj=19.4km s-min=10.6km az=16.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**20 12 59 02.4–.10**	**37.45N**	**141.47E**	**39–2**	**3.5**		
NIED	V	20 12 59 00	37.50N	141.50E	44	3.5W		**¶600618995**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ55.00000°,λ171.00000°. NP2:ϕ_s49.00000°,δ83.00000°,λ35.00000°. $M_0$2.03000×10^{14}

(230) Near south coast of eastern Honshu

ISC	**V**	**20 16 04 42.8–1.4**	**35.53N–.03**	**139.18E–.07**	**15–9**	**3.9b**	**25**	**0-69**
NIED	V	20 16 04 00	35.50N	139.10E	17	3.8W		**¶16531568**
IDC	V	20 16 04 42.1–.85	35.26N	138.56E	0	3.9,3.8		
ISCJB	V	20 16 04 43.8–.69	35.47N–.03	139.17E–.07	29–5	3.8b,3.8		
JMA	V	20 16 04 44.6	35.49N	139.13E	17–1	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ24.00000°,λ-150.00000°. NP2:ϕ_s235.00000°,δ78.00000°,λ-69.00000°. $M_0$5.25000×10^{14}
IDC Error ellipse: s-maj=34.5km s-min=10.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=167.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s76.00000°,δ70.00000°,λ74.00000°. NP2:ϕ_s295.00000°,δ25.00000°,λ126.00000°. Principal axes: T Plg62.0000°,Azm322.0000°; N Plg15.0000°,Azm82.0000°; P Plg23.0000° ,Azm178.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**20 18 01 25.4–.97**	**36.92N–.03**	**140.62E–.05**	**12–8**		**18**	**0-61**
IDC	V	20 18 01 23.5–1.7	36.87N	140.72E	0	3.5,3.5		**¶600619272**
ISCJB	V	20 18 01 24.6–.65	36.91N–.04	140.75E–.06	19–6	3.5b,3.5		
JMA	V	20 18 01 25.5	36.93N	140.62E	9–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=22.1km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=14.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ72.00000°,λ-88.00000°. NP2:ϕ_s32.00000°,δ18.00000°,λ-95.00000°. Principal axes: T Plg27.0000°,Azm306.0000°; N Plg2.0000°,Azm37.0000°; P Plg63.0000° ,Azm130.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**20 18 32 02.8–2.8**	**38.94N–.05**	**142.5E–.10**	**23–18**	**3.5b**	**23**	**1-63**
NIED	V	20 18 32 00	39.00N	142.40E	35	3.6W		**¶17204069**
ISCJB	V	20 18 32 03.1–1.3	38.93N–.05	142.48E–.08	32–8	3.7s,3.5b		
JMA	V	20 18 32 04.0–.10	38.98N	142.44E	31–2	3.9,3.5b		
IDC	V	20 18 32 06.0–2.9	38.91N	142.60E	47–26	3.5,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ18.00000°,λ-86.00000°. NP2:ϕ_s148.00000°,δ72.00000°,λ-91.00000°. $M_0$3.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=7.8km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=43.7km s-min=23.1km az=87.0.

(207) Eastern New Guinea region

ISC	**V**	**20 19 43 17.4–.41**	**7.20S–.02**	**146.94E–.03**	**14–2**	**6.1b,5.5s**	**1747**	**2-167**
ISCJB	V	20 19 43 13.9–.75	7.19S–.02	146.91E–.02	0–4	6.1b,5.5s		**¶602607383**
IDC	V	20 19 43 15.6–.25	7.16S	146.85E	0	5.8,5.8		
BJI	V	20 19 43 15.7	7.15S	147.00E	10	6.2b,5.8b		
NEIC	V	20 19 43 15.0–.00	7.21S	146.89E	15	6.2b,5.8b		
GCMT	V	20 19 43 16.2–.10	7.38S	147.05E	12	5.7W,5.8b		
NEIC	V	20 19 43 16.2–.09	7.19S	146.91E	7	6.2b,5.7		
MOS	V	20 19 43 18.7–.87	7.22S	146.88E	33	6.2b,5.5s		
DJA	V	20 19 43 21.0–.90	7S–2.0	147E–3.0	36–7	6.3b,6.2		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.10 $M_{\theta\theta}$0.40 $M_{\phi\phi}$1.70 $M_{r\theta}$-1.10 $M_{\theta\phi}$-3.20 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s356.00000° ,δ63.00000°,λ-36.00000°. NP2:ϕ_s104.00000°,δ58.00000°,λ-148.00000°. Principal axes: T 4.3000,Plg3.0000°,Azm51.0000°; N -0.4000,Plg46.0000°,Azm145.0000° ; P -3.9000,Plg43.0000°,Azm318.0000° $M_0$4.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c194; s130,c374;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}-1.97±.04 $M_{\theta\theta}$0.71±.04; $M_{\phi\phi}$1.26±.04; $M_{r\theta}$-1.27±.09; $M_{\theta\phi}$-3.88±.03; $M_{\phi r}$-1.91±.10; Best double couple: NP1:ϕ_s355.00000°,δ67.00000°,λ-33.00000°. NP2:ϕ_s99.00000° ,δ60.00000°,λ-153.00000°. Principal axes: T 4.9210,Plg5.0000°,Azm48.0000°

; N -0.1900,Plg50.0000°,Azm144.0000°; P -4.7280,Plg39.0000°,Azm314.0000°
$M_0$4.82500×10^{17}
NEIC Event type fe. Felt at Kainantu, Port Moresby and Wau. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.15 $M_{\theta\theta}$1.71 $M_{\phi\phi}$1.43 $M_{r\theta}$1.24 $M_{\theta\phi}$-2.63 $M_{\phi r}$-0.81 Best double couple: NP1:ϕ_s308.00000°,δ56.00000°,λ-97.00000°. NP2:ϕ_s141.00000°,δ35.00000°,λ-79.00000°. Principal axes: T 4.4900,Plg11.0000°,Azm43.0000°
; N -1.0400,Plg6.0000°,Azm312.0000°; P -3.4500,Plg78.0000°,Azm193.0000°
$M_0$4.10000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s270.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s90.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm180.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm360.0000°

(590) Western Australia

ISC	**V**	**20 20 03 26.7–.41**	**23.57S–.04**	**119.50E–.05**	**10**	**4.5b**	**92**	**5-120**
ISCJB	V	20 20 03 25.0–.26	23.58S–.03	119.49E–.04	10	4.7s,4.5b		**¶16532334**
IDC	V	20 20 03 26.1–.75	23.44S	119.30E	0	4.6L,4.3		
NEIC	V	20 20 03 29.0	23.46S	119.33E	9	4.7L,4.7b		
AUST	V	20 20 03 29.8–.27	23.46S	119.33E	9	4.7L,4.7b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.4km az=24.9.
IDC Error ellipse: s-maj=17.8km s-min=16.4km az=30.0.
NEIC Event type fe. Felt [II] at Port Hedland and Roebourne. Also felt at Karratha. After AUST.
AUST Error ellipse: s-maj=0.1km s-min=0.1km az=295.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 20 20 52.2–.99**	**35.83N–.04**	**140.90E–.07**	**25–6**	**3.5b**	**20**	**0-148**
IDC	V	20 20 20 48.5–1.1	35.74N	140.94E	0	3.6,3.6		**¶17204077**
ISCJB	V	20 20 20 50.6–.92	35.84N–.05	141.00E–.08	30–4	3.5b,3.6		
JMA	V	20 20 20 51.7–.10	35.82N	140.91E	29–1	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=17.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=7.0km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 20 22 29.6–1.2**	**36.92N–.04**	**140.48E–.04**	**4–9**	**3.7b**	**23**	**0-91**
IDC	V	20 20 22 28.6–1.1	36.90N	140.54E	0	3.7,3.6		**¶17204078**
ISCJB	V	20 20 22 29.7–.70	36.90N–.03	140.60E–.05	15–5	3.5b,3.6		
JMA	V	20 20 22 30.0	36.89N	140.54E	7–1	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=14.9km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.2km az=22.3.
JMA Event type fe.

(246) Southwestern Ryukyu Islands

ISC	**V**	**20 21 18 12.0–1.2**	**24.8N–.10**	**125.47E–.07**	**43–7**	**3.9b**	**43**	**0-85**
JMA	V	20 21 18 12.2–.10	24.79N	125.41E	47–1	3.7		**¶17204083**
IDC	V	20 21 18 28.1–6.3	25.71N	125.22E	144–60	3.9,3.6		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=33.6km s-min=14.4km az=65.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**20 23 43 16.5–1.6**	**38.13N–.03**	**142.09E–.05**	**7–9**	**4.2b,3.2s**	**76**	**1-146**
NIED	V	20 23 43 00	38.20N	142.20E	5	4.2W,3.2s		**¶16560110**
ISCJB	V	20 23 43 14.7–1.2	38.16N–.03	142.20E–.04	5–7	4.2b,3.3s		
JMA	V	20 23 43 16.3–.10	38.17N	142.14E	14–1	4.5,3.3s		
NEIC	V	20 23 43 20.7–.74	38.10N	142.08E	35–6	4.5b,3.3s		
IDC	V	20 23 43 20.7–3.5	38.13N	141.98E	33–26	4.1,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ36.00000°,λ-98.00000°. NP2:ϕ_s177.00000°,δ55.00000°,λ-84.00000°. $M_0$2.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.3km az=25.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.4km az=118.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=15.2km s-min=13.4km az=105.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**21 00 34 40.9–.10**	**38.75N**	**142.27E**	**39–2**	**3.6**		**¶600619526**

JMA Event type fe.

(43) Southern California

ISC	**V**	**21 01 09 21.5–1.0**	**33.52N–.03**	**119.10W–.03**	**16–8**		**78**	**0-14**
ISCJB	V	21 01 09 21.7–.47	33.47N–.03	119.13W–.03	27–4			**¶16531787**
NEIC	V	21 01 09 22.1	33.50N	119.12W	15	3.7L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=30.9.
NEIC Event type fe. Felt [II] at Los Angeles. Also felt at Bell, Burbank, El Segundo, North Hollywood, Oxnard, Redondo Beach, Santa Monica, Simi Valley and Westminster. After PAS.

(110) Peru-Ecuador border region

ISC	**V**	**21 01 34 29.7–.56**	**3.52S–.05**	**80.42W–.10**	**35**	**4.0b,3.5s**	**50**	**4-152**
ISCJB	V	21 01 34 27.9–.37	3.63S–.04	80.48W–.06	33	4.0b,3.5s		**¶16531788**
NEIC	V	21 01 34 31.6–2.0	3.63S	80.32W	49–21	4.3b,4.2		
IDC	V	21 01 34 32.9–2.1	3.63S	80.42W	73–20	4.1,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.7km az=159.8.
NEIC Event type fe. Error ellipse: s-maj=28.4km s-min=10.5km az=70.0. Felt at Tumbes and Zorritos, Peru.
IDC Error ellipse: s-maj=20.4km s-min=12.2km az=73.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**21 02 46 31.8–.10**	**38.25N**	**141.85E**	**47–1**	**3.7**		**¶600619605**
NIED	V	21 02 46 00	38.30N	141.80E	5	4.0W		

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ7.00000°,λ120.00000°. NP2:ϕ_s337.00000°,δ84.00000°,λ86.00000°. $M_0$1.30000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**V**	**21 03 40 45.0–1.0**	**37.08N–.04**	**141.26E–.07**	**43–8**	**4.0b**	**59**	**0-147**
NIED	V	21 03 40 00	37.10N	141.20E	47	4.1W		**¶16560112**
ISCJB	V	21 03 40 43.8–.61	37.06N–.03	141.30E–.07	51–4	4.0b,2.9s		
NEIC	V	21 03 40 45.0–.58	37.12N	141.22E	41–5	4.2b,2.9s		
JMA	V	21 03 40 45.7–.10	37.09N	141.16E	51–1	4.0,2.9s		
IDC	V	21 03 40 47.0–2.2	37.13N	141.08E	56–19	4.0,3.8L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ16.00000°,λ107.00000°. NP2:ϕ_s34.00000°,δ75.00000°,λ85.00000°. $M_0$1.82000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=5.1.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.5km az=112.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=14.4km az=100.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 05 35 26.2–.79**	**39.06N–.04**	**142.41E–.04**	**33–2**	**4.4b,3.8s**	**234**	**1-145**
NIED	V	21 05 35 00	39.10N	142.50E	29	4.4W,3.8s		**¶16531792**
MOS	V	21 05 35 23.3–1.0	39.09N	142.34E	24	4.6b,3.8s		
JMA	V	21 05 35 24.4–.10	39.09N	142.44E	30–1	4.4,3.8s		
ISCJB	V	21 05 35 25.7–.49	39.10N–.03	142.34E–.04	40–4	4.5b,3.7s		
NEIC	V	21 05 35 26.9–.19	39.11N	142.38E	35	4.6b,3.7s		
IDC	V	21 05 35 27.9–1.8	39.05N	142.37E	51–16	4.2,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ23.00000°,λ-109.00000°. NP2:ϕ_s170.00000°,δ68.00000°,λ-82.00000°. $M_0$3.78000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.9km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=137.7.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.2km az=151.0. Recorded [2 JMA] in Iwate.
IDC Error ellipse: s-maj=15.3km s-min=10.4km az=113.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**21 06 46 52.3–.20**	**38.97N**	**142.45E**	**28–2**	**3.7**		**¶600619679**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(676) Northern Alaska

ISC	**V**	**21 08 33 23.1–.57**	**65.48N–.05**	**166.86W–.03**	**15–3**	**5.0b,4.1s**	**1046**	**0-149**
BJI	V	21 08 33 19.0	65.40N	166.90W	10	5.0b,4.9b		**¶16531596**
MOS	V	21 08 33 21.8–.97	65.50N	166.71W	16	5.3b,4.2s		
NEIC	V	21 08 33 21.7	65.36N	166.83W	19	5.2L,5.0b		
IDC	V	21 08 33 21.2–.45	65.51N	166.70W	0	4.9,4.8		
GCMT	V	21 08 33 21.7–.20	65.44N	166.90W	12	5.0W,4.8		
ISCJB	V	21 08 33 21.2–.11	65.55N–.02	166.60W–.03	11	5.0b,4.2s		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Nome. Also felt at Wales. After AEIC. Moment Tensor Solution. s72 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.89 $M_{\theta\theta}$1.60 $M_{\phi\phi}$0.30 $M_{r\theta}$-0.65 $M_{\theta\phi}$-0.54 $M_{\phi r}$0.78 Best double couple: NP1:ϕ_s123.00000°,δ59.00000°,λ-77.00000°. NP2:ϕ_s279.00000°,δ33.00000°,λ-111.00000°. Principal axes: T 1.9900,Plg13.0000°,Azm203.0000°
; N 0.2100,Plg11.0000°,Azm296.0000°; P -2.2000,Plg73.0000°,Azm65.0000°
$M_0$2.10000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c56; s98,c138;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.27±.07 $M_{\theta\theta}$2.95±.08; $M_{\phi\phi}$0.31±.06; $M_{r\theta}$-0.32±.26; $M_{\theta\phi}$-1.49±.06; $M_{\phi r}$1.02±.22; Best double couple: NP1:ϕ_s128.00000°,δ52.00000°,λ-72.00000°. NP2:ϕ_s280.00000°,δ41.00000°,λ-111.00000°. Principal axes: T 3.6960,Plg6.0000°,Azm205.0000°; N -0.1600,Plg14.0000°,Azm297.0000°
; P -3.5410,Plg75.0000°,Azm93.0000° $M_0$3.61800×10^{16}
ISCJB Event type fe.

(78) Costa Rica

ISC	**V**	**21 08 37 08.1–1.3**	**8.81N–.08**	**82.99W–.04**	**13–8**	**4.2b,3.4s**	**66**	**0-142**
IDC	V	21 08 37 05.9–1.3	8.92N	83.42W	0	4.1,3.9		**¶16684776**
NEIC	V	21 08 37 07.0–.84	8.82N	83.16W	10	4.8L,4.5b		
ISCJB	V	21 08 37 08.1–.72	8.78N–.06	82.98W–.04	26–5	4.2b,3.7s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Golfito and [III] at Buenos Aires. Also felt at San Vito. Felt in Chiriqui, Panama.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 08 51 46.0–.39**	**35.94N–.04**	**140.43E–.04**	**50**	**4.5b,4.3s**	**173**	**0-151**
NIED	V	21 08 51 00	36.00N	140.40E	56	4.2W,4.3s		**¶16531794**
ISCJB	V	21 08 51 44.4–.26	35.89N–.03	140.43E–.04	50	4.4b,4.1s		
MOS	V	21 08 51 46.3–1.2	36.02N	140.46E	66	4.7b,4.1s		
NEIC	V	21 08 51 47.8–.63	35.92N	140.37E	63–5	4.8b,4.1s		
JMA	V	21 08 51 47.5–.10	36.01N	140.39E	55–1	3.6,4.1s		
IDC	V	21 08 51 48.7–1.4	35.92N	140.33E	71–13	4.2,4.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ29.00000°,λ112.00000°. NP2:ϕ_s3.00000°,δ63.00000°,λ78.00000°. $M_0$2.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.6km az=25.1.
MOS Error ellipse: s-maj=10.9km s-min=6.7km az=121.8.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=108.0. Felt at Narita. Recorded [2 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s34.00000°,δ74.00000°,λ103.00000°. NP2: ϕ_s175.00000°,δ20.00000°,λ52.00000°. Principal axes: T Plg59.0000°,Azm322.0000°
; N Plg12.0000°,Azm211.0000°; P Plg28.0000°,Azm114.0000°
IDC Error ellipse: s-maj=15.7km s-min=8.7km az=82.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 09 43 48.5–1.9**	**37.51N–.05**	**141.78E–.07**	**8–12**	**3.7b**	**23**	**1-63**
NIED	V	21 09 43 00	37.60N	141.70E	14	3.7W		**¶16710495**
IDC	V	21 09 43 49.2–1.0	37.45N	142.13E	0	3.9L,3.8		
JMA	V	21 09 43 51.6–.10	37.58N	141.70E	23–3	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ44.00000°,λ159.00000°. NP2:ϕ_s277.00000°,δ76.00000°,λ48.00000°. $M_0$3.41000×10^{14}
IDC Error ellipse: s-maj=30.3km s-min=18.2km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(207) Eastern New Guinea region

ISC	**V**	**21 09 53 55.1–.45**	**7.32S–.03**	**147.01E–.05**	**48–3**	**5.2b,4.1s**	**350**	**2-152**
IDC	V	21 09 53 48.5–.40	7.24S	147.03E	0	5.0,5.0		**¶16531630**
ISCJB	V	21 09 53 52.3–.67	7.27S–.02	146.94E–.03	33–6	5.1b,4.1s		
MOS	V	21 09 53 52.2–1.0	7.22S	146.95E	33	5.3b,4.1s		
BJI	V	21 09 53 54.5	6.77S	147.18E	42	5.1b,5.0b		
GCMT	V	21 09 53 55.8–.30	7.30S	147.16E	27–1	5.0W,5.0b		
NEIC	V	21 09 53 55.9–.53	7.29S	146.95E	54–5	5.1b,5.0b		
DJA	V	21 09 53 55.6–1.3	7S–3.0	147E–4.0	39–10	7.4,5.4b		

ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c46; s70,c98;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.04±.20 $M_{\theta\theta}$1.91±.12; $M_{\phi\phi}$1.13±.13; $M_{r\theta}$1.49±.19; $M_{\theta\phi}$-1.62±.07; $M_{\phi r}$-2.63±.26; Best double couple: NP1:ϕ_s323.00000°,δ67.00000°,λ-78.00000°. NP2:ϕ_s114.00000°,δ25.00000°,λ-117.00000°. Principal axes: T 4.2980,Plg22.0000°,Azm44.0000°; N 0.0850,Plg11.0000°,Azm139.0000°
; P -4.3830,Plg65.0000°,Azm254.0000° $M_0$4.34000×10^{16}
NEIC Event type fe. Felt at Wau.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 10 24 42.8–.67**	**37.20N–.04**	**141.59E–.04**	**26–4**	**4.5b,3.5s**	**252**	**1-150**
NIED	V	21 10 24 00	37.20N	141.50E	32	4.3W,3.5s		**¶16532336**
MOS	V	21 10 24 41.5–1.0	37.24N	141.44E	27	4.6b,3.5s		
ISCJB	V	21 10 24 42.8–.19	37.23N–.03	141.53E–.02	32	4.5b,3.6s		
JMA	V	21 10 24 44.2–.10	37.19N	141.47E	48–2	4.4,3.6s		
NEIC	V	21 10 24 44.6–.16	37.20N	141.44E	35	4.6b,3.6s		
IDC	V	21 10 24 45.8–1.6	37.22N	141.47E	46–14	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ22.00000°,λ94.00000°. NP2:ϕ_s162.00000°,δ68.00000°,λ88.00000°. $M_0$3.44000×10^{15}
MOS Error ellipse: s-maj=8.3km s-min=5.3km az=93.3.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.5km az=158.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=143.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.6km s-min=9.4km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 10 42 26.8–.71**	**38.67N–.04**	**142.34E–.04**	**32–4**	**4.5b,3.6s**	**257**	**1-145**
NIED	V	21 10 42 00	38.70N	142.20E	41	4.4W,3.6s		**¶16532337**
ISCJB	V	21 10 42 26.6–.52	38.71N–.03	142.27E–.04	40–3	4.5b,3.6s		
MOS	V	21 10 42 28.3–.85	38.90N	142.06E	43	4.7b,3.6s		
NEIC	V	21 10 42 28.2–.24	38.78N	142.21E	35	4.6b,3.6s		
JMA	V	21 10 42 28.0–.10	38.70N	142.21E	40–2	4.4,3.6s		
IDC	V	21 10 42 29.4–1.5	38.70N	142.16E	48–13	4.4,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ74.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ95.00000°. $M_0$3.80000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=32.5.
MOS Error ellipse: s-maj=7.5km s-min=5.0km az=109.5.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.0km az=130.0. Recorded [2 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=10.2km az=115.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 12 04 51.2–1.1**	**38.22N–.04**	**141.78E–.08**	**54–10**	**3.7b**	**35**	**0-62**
NIED	V	21 12 04 00	38.20N	141.60E	50	3.5W		**¶600619856**
ISCJB	V	21 12 04 50.4–.72	38.22N–.03	141.77E–.08	68–6	3.5b		
IDC	V	21 12 04 50.0–1.7	38.22N	141.90E	47–16	3.7,3.6		
JMA	V	21 12 04 52.6	38.24N	141.62E	62–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ23.00000°,λ65.00000°. NP2: ϕ_s213.00000°,δ70.00000°,λ100.00000°. $M_0$1.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.6km az=8.3.
IDC Error ellipse: s-maj=32.2km s-min=11.3km az=93.0.
JMA Event type fe.

(249) Luzon

ISC	**V**	**21 13 08 04.8–.41**	**17.25N–.02**	**121.91E–.03**	**34–1**	**5.2b,4.7s**	**702**	**0-170**
IDC	V	21 13 07 59.0–.44	17.11N	121.74E	0	5.0,5.0		**¶16531800**
MAN	V	21 13 08 01	17.19N	121.89E	13	5.9b,5.5s		
MOS	V	21 13 08 02.5–1.1	17.17N	121.78E	33	5.4b,4.6s		
ISCJB	V	21 13 08 02.6–.41	17.25N–.01	121.88E–.02	31–3	5.1b,4.6s		
NEIC	V	21 13 08 04.5–.55	17.19N	121.72E	35–5	5.3b,4.6s		
BJI	V	21 13 08 04.6	17.24N	121.86E	46	5.1b,5.0s		
GCMT	V	21 13 08 04.5–.10	17.31N	121.91E	13–0	5.2W,5.0s		
KLM	V	21 13 08 07.6	17.23N	122.13E	94	5.8s,5.2b		

BKK V 21 13 08 09.3–5.9 17N–15 122E–40 90–30 5.1b,4.7b
ISC Event type fe.
MAN Event type fe. INTENSITY V - ILAGAN ISABELA; INTENSITY IV - TUGUEGARAO CITY; PENABLANCA CAGAYAN; QUIRINO AND TUMAUINI ISABELA; INTENSITY II - BAGUIO CITY; TABUK KALINGA.
ISCJB Event type fe.
NEIC Event type fe. Felt [V PIVS] at Ilagan; [IV PIVS] at Baler, Penablanca, Quirino, Tuguegarao City and Tumauini; [II PIVS] at Baguio and Tabuk. Also felt at Angadanan, Bayombong, Cabarroguis, Gamu, Luna, San Mateo and Santiago.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c89; s113,c200;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.24±.13 $M_{\theta\theta}$-6.04±.12; $M_{\phi\phi}$4.81±.12; $M_{r\theta}$1.13±.25; $M_{\theta\phi}$2.79±.09; $M_{\phi r}$1.72±.30; Best double couple: NP1:ϕ_s61.00000°,δ79.00000°,λ19.00000°. NP2:ϕ_s327.00000°,δ71.00000°,λ168.00000°. Principal axes: T 6.2420,Plg21.0000°,Azm285.0000°; N 0.5460,Plg68.0000°,Azm90.0000° ; P -6.7780,Plg5.0000°,Azm193.0000° $M_0$6.51000×10^{16}

(2) Southern Alaska

ISC	**V**	**21 13 57 09.8–.67**	**59.78N–.04**	**152.66W–.04**	**83–6**	**4.2b**	**129**	**1-149**
ISCJB	V	21 13 57 08.4–.20	59.76N–.02	152.60W–.04	95–3	4.1b		**¶16531801**
NEIC	V	21 13 57 10.5	59.75N	152.68W	82	3.9		
IDC	V	21 13 57 11.6–3.7	60.01N	152.76W	92–34	4.1,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=43.8.
NEIC Event type fe. Felt at Anchor Point, Homer and Soldotna. After AEIC.
IDC Error ellipse: s-maj=28.3km s-min=12.7km az=34.0.

(227) Eastern Honshu

JMA	**V**	**21 14 06 46.5**	**36.95N**	**139.43E**	**4–1**	**2.7**		
								¶600619953

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 14 16 17.2–1.3**	**38.24N–.05**	**142.0E–.10**	**38–2**	**3.4b**	**33**	**1-76**
NIED	V	21 14 16 00	38.20N	142.00E	44	3.6W		**¶17204141**
IDC	V	21 14 16 11.3–1.1	38.15N	142.28E	0	3.7,3.6		
ISCJB	V	21 14 16 16.4–.94	38.23N–.04	142.05E–.09	50–9	3.4b,3.6		
JMA	V	21 14 16 18.2–.10	38.28N	141.92E	52–1	4.0,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ47.00000°,λ127.00000°. NP2:ϕ_s186.00000°,δ55.00000°,λ57.00000°. $M_0$2.49000×10^{14}
IDC Error ellipse: s-maj=29.3km s-min=19.9km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.5km az=18.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(256) Leyte

ISC	**V**	**21 14 56 58.3–1.3**	**10.39N–.03**	**125.57E–.05**	**27–9**	**4.1b,3.2s**	**84**	**1-147**
NEIC	V	21 14 56 55.7–.52	10.34N	125.83E	10	4.4b,3.2s		**¶16710519**
MAN	V	21 14 56 59	10.40N	125.56E	33	5.3b,4.5s		
IDC	V	21 14 57 03.8–2.8	10.24N	125.41E	80–27	4.0,3.8		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=23.8km s-min=9.1km az=86.0. Felt [V PIVS] at Libjo; [IV PIVS] at Loreto and San Jose; [III PIVS] at Dinagat; [II PIVS] at Basilisa and Cagdianao, Dinagat Island. Also felt [II PIVS] at Anahawan and Hinundayan, Leyte. Felt [I PIVS] at Surigao, Mindanao.
MAN Event type fe. INTENSITY V - LIBJO DINAGAT ISLAND; INTENSITY IV - SAN JOSE AND LORETO DINAGAT ISLAND; INTENSITY III - MUNICIPALITY OF DINAGAT DINAGAT ISLAND; INTENSITY II - BASILISA AND CAGDIANAO DINAGAT ISLAND; INTENSITY I - SURIGAO CITY.
IDC Error ellipse: s-maj=20.3km s-min=9.9km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 15 03 09.6–1.0**	**36.51N–.05**	**141.04E–.07**	**42–9**	**3.9b**	**43**	**0-117**
NIED	V	21 15 03 00	36.60N	140.90E	50	3.9W		**¶16533357**
ISCJB	V	21 15 03 08.5–.63	36.51N–.04	141.06E–.07	49–5	3.8b		
JMA	V	21 15 03 10.5–.10	36.54N	140.87E	51–1	4.1		
IDC	V	21 15 03 12.1–1.6	36.47N	140.90E	66–16	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ24.00000°,λ57.00000°. NP2:ϕ_s35.00000°,δ70.00000°,λ104.00000°. $M_0$7.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.3km az=20.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.8km s-min=9.8km az=70.0.

(227) Eastern Honshu

ISC	**V**	**21 17 17 22.7–1.1**	**36.95N–.03**	**139.42E–.03**	**6–8**	**3.6b**	**24**	**0-61**
NIED	V	21 17 17 00	36.90N	139.40E	5	3.8W		**¶16533356**
IDC	V	21 17 17 21.0–1.1	36.76N	139.52E	0	3.6,3.4		
ISCJB	V	21 17 17 22.1–.47	36.95N–.02	139.42E–.04	8–4	3.6b,3.4s		
JMA	V	21 17 17 22.2	36.95N	139.42E	4–1	3.9,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ81.00000°,λ-178.00000°. NP2:ϕ_s7.00000°,δ88.00000°,λ-9.00000°. $M_0$6.40000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=12.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=20.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s10.00000°,δ80.00000°,λ-14.00000°. NP2:ϕ_s103.00000°,δ77.00000°,λ-169.00000°. Principal axes: T Plg2.0000°,Azm57.0000°; N Plg73.0000°,Azm154.0000°; P Plg17.0000° ,Azm326.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**21 17 37 03.5–1.4**	**36.32N–.04**	**141.18E–.06**	**27–10**	**4.2b**	**70**	**1-72**
IDC	V	21 17 36 59.8–1.0	36.26N	141.17E	0	3.9,3.8		**¶16710528**
NIED	V	21 17 37 00	36.30N	141.00E	29	3.8W,3.8		
ISCJB	V	21 17 37 03.5–.59	36.34N–.03	141.20E–.05	44–5	4.3b,4.1s		
NEIC	V	21 17 37 05.6–.65	36.32N	141.21E	46–6	4.5b,4.1s		
JMA	V	21 17 37 05.1–.10	36.33N	141.01E	46–1	3.7,4.1s		

ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=17.0km az=70.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ44.00000°,λ151.00000°. NP2:ϕ_s18.00000°,δ70.00000°,λ50.00000°. $M_0$5.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.3km az=11.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.8km az=103.0.
JMA Event type fe.

(224) Hokkaido region

ISC	**V**	**21 17 45 01.4–.51**	**43.56N–.04**	**144.78E–.04**	**145–4**	**4.4b**	**274**	**0-84**
ISCJB	V	21 17 45 00.6–.20	43.57N–.03	144.80E–.03	148–1	4.4b		**¶16535812**
NIED	V	21 17 45 00	43.50N	144.90E	150	4.0W		
MOS	V	21 17 45 00.4–.93	43.64N	144.69E	145	4.3b		
IDC	V	21 17 45 01.4–1.1	43.59N	144.83E	144–8	4.3,4.0		
JMA	V	21 17 45 01.7–.10	43.51N	144.85E	143–1	4.0,4.0		
SKHL	V	21 17 45 01.8–.70	43.56N	144.87E	145–4	5.8s,4.6b		
NEIC	V	21 17 45 02.1–.33	43.61N	144.74E	146–3	4.6b,4.6b		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=149.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ23.00000°,λ-169.00000°. NP2:ϕ_s256.00000°,δ86.00000°,λ-67.00000°. $M_0$1.22000×10^{15}
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=107.5.
IDC Error ellipse: s-maj=13.2km s-min=11.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=139.0.

(89) Mona Passage

ISC	**V**	**21 18 29 15.7–.59**	**18.91N–.03**	**67.67W–.03**	**23–4**	**4.7b,3.9s**	**508**	**1-159**
IDC	V	21 18 29 12.0–.46	18.77N	67.65W	0	4.6,4.5		**¶16531807**
NEIC	V	21 18 29 14.8	18.98N	67.89W	26	4.7b,4.6		
RSPR	V	21 18 29 14.9	18.98N	67.89W	26–29	4.2,4.6		
ISCJB	V	21 18 29 15.3–.62	18.95N–.03	67.65W–.02	27–5	4.6b,3.9s		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Higuey and Santo Domingo. Also felt at Azua and Otra Banda. Felt [IV] at Isabela and Mayaguez; [III] at Moca; [II] at Aguada, Aguadilla, Gurabo and San German, Puerto Rico. Also felt at Cabo Rojo, Caguas, Guanica, Hormigueros, Ponce, Rincon, San Juan, San Sebastian and Utuado. After RSPR.
RSPR Event type ke.
ISCJB Event type fe.

(162) South Island

WEL	**V**	**21 19 56 23.2–.06**	**43.59S**	**172.43E**	**10–0**	**3.7L**		
								¶16532354

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(318) Yunnan

ISC	**V**	**21 20 31 16.3–1.1**	**22.80N–.02**	**103.61E–.02**	**3–8**	**4.0b,3.0s**	**87**	**1-63**
ISCJB	V	21 20 31 15.1–.55	22.83N–.02	103.64E–.03	6–4	4.1b,3.0s		**¶16545726**
IDC	V	21 20 31 16.1–1.3	22.85N	103.67E	0	4.1L,3.9		
NEIC	V	21 20 31 17.7–.42	22.82N	103.62E	10	4.1b,3.9		
PLV	V	21 20 31 17.6–2.6	22.82N	103.72E	2–10	4.2L,3.9		
BJI	V	21 20 31 17.1	22.91N	103.64E	7	4.4b,4.3b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=2.5.
IDC Error ellipse: s-maj=30.7km s-min=20.5km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=6.4km az=109.0. Felt at Xicheng, China.
PLV Error ellipse: s-maj=7.4km s-min=6.2km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**21 22 06 25.8–.21**	**35.63N–.02**	**140.71E–.03**	**36–1**	**5.6b,5.0s**	**1701**	**0-166**
NIED	V	21 22 06 00	35.80N	140.70E	50	5.5W,5.0s		**¶602607399**
BJI	V	21 22 06 21.6	35.58N	140.90E	39	5.7b,5.4b		
GCMT	V	21 22 06 26.4–.20	35.64N	140.79E	49–0	5.5W,5.4b		
NEIC	V	21 22 06 26.0–.00	35.59N	140.73E	34	5.5W,5.4b		
NEIC	V	21 22 06 26.4–.38	35.60N	140.49E	37–3	5.6W,5.5b		
MOS	V	21 22 06 27.4–.81	36.01N	140.44E	42	5.8b,4.9s		
JMA	V	21 22 06 27.4–.10	35.73N	140.64E	48–1	5.5,4.9s		
IDC	V	21 22 06 29.0–1.2	35.66N	140.49E	57–10	5.4,5.2		
ISCJB	V	21 22 06 28.1–.22	35.61N–.02	140.46E–.02	61–1	5.6b,5.2		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ22.00000°,λ136.00000°. NP2:ϕ_s357.00000°,δ75.00000°,λ74.00000°. $M_0$1.91000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c147; s118,c237;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.10±.05 $M_{\theta\theta}$-0.06±.03; $M_{\phi\phi}$-2.04±.03; $M_{r\theta}$-0.15±.03; $M_{\theta\phi}$-0.39±.02; $M_{\phi r}$1.32±.03; Best double couple: NP1:ϕ_s2.00000°,δ61.00000°,λ81.00000°. NP2:ϕ_s200.00000°,δ30.00000° ,λ106.00000°. Principal axes: T 2.5110,Plg72.0000°,Azm251.0000°; N -0.0420,Plg8.0000° ,Azm6.0000°; P -2.4720,Plg16.0000°,Azm98.0000° $M_0$2.49100×10^{17}
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.60 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.90 Best double couple: NP1:ϕ_s352.00000° ,δ77.00000°,λ80.00000°. NP2:ϕ_s209.00000°,δ15.00000°,λ125.00000°. Principal axes: T 3.4000,Plg56.0000°,Azm250.0000°; N -0.1000,Plg9.0000°,Azm354.0000° ; P -3.3000,Plg31.0000°,Azm89.0000° $M_0$3.00000×10^{17}
NEIC Event type fe. Felt [IV] at Narita; [III] at Tokyo, Yokosuka and Zushi; [II] at Yokohama. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba and Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ79.00000°,λ87.00000°. NP2:ϕ_s210.00000°,δ11.00000°,λ106.00000°. Principal axes: T Plg56.0000°,Azm279.0000°; N Plg3.0000°,Azm14.0000°; P Plg34.0000° ,Azm106.0000°
ISCJB Event type fe.

(227) Eastern Honshu

ISC	**V**	**21 22 32 36.0–1.1**	**37.02N–.05**	**141.12E–.08**	**52–7**	**3.9b**	**42**	**0-69**
NIED	V	21 22 32 00	37.00N	141.00E	41	4.0W		**¶600620321**
ISCJB	V	21 22 32 35.1–.58	37.03N–.03	141.11E–.06	60–4	3.9s,3.9b		
JMA	V	21 22 32 36.9–.10	37.05N	140.98E	53–1	3.9,3.9b		
NEIC	V	21 22 32 37.4–1.5	37.04N	141.08E	64–12	4.1b,3.9b		
IDC	V	21 22 32 37.9–2.1	37.08N	141.03E	71–17	4.0s,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ51.00000°,λ5.00000°. NP2:ϕ_s252.00000°,δ86.00000°,λ141.00000°. $M_0$1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.4km az=23.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s252.00000°,δ71.00000°,λ149.00000°. NP2:ϕ_s353.00000°,δ61.00000°,λ22.00000°. Principal axes: T Plg35.0000°,Azm210.0000°; N Plg54.0000°,Azm45.0000°; P Plg7.0000° ,Azm305.0000°
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=12.2km az=126.0.
IDC Error ellipse: s-maj=19.4km s-min=12.9km az=109.0.

(124) Chile-Bolivia border region

ISC	**V**	**21 23 45 15.7–.40**	**19.89S–.03**	**69.09W–.06**	**111–3**	**4.9b**	**406**	**0-172**
BJI	V	21 23 45 14.6	19.80S	68.90W	93	5.1b		**¶16532357**
ISCJB	V	21 23 45 14.7–.27	19.84S–.02	68.99W–.04	114–2	4.8b		
NEIC	V	21 23 45 15.0–.46	19.82S	68.94W	99–4	5.0b		
IDC	V	21 23 45 16.9–.63	19.78S	68.91W	117–5	4.5,4.3		
GUC	V	21 23 45 16.8–.62	19.95S	69.22W	105–3	5.0L,4.3		
MOS	V	21 23 45 17.8–1.4	19.73S	68.91W	134	4.6b,4.3		
SCB	V	21 23 45 17.8–1.1	19.61S	68.65W	125	4.0L,4.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.8km az=170.5.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=77.0. Felt [IV] at Pica; [III] at Alto Hospicio, Iquique and Pisagua; [II] at Quillagua.
IDC Error ellipse: s-maj=15.7km s-min=11.6km az=71.0.
GUC Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
MOS Error ellipse: s-maj=18.5km s-min=7.7km az=108.7.
SCB Event type ke. Error ellipse: s-maj=46.4km s-min=6.8km az=69.0.

(159) North Island

WEL	**V**	**22 01 25 38.6–.11**	**40.44S**	**175.08E**	**27–1**	**3.9L**		
NEIC	V	22 01 25 38.7	40.42S	175.10E	28	3.9L		**¶16532362**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from Whanganui to Wellington, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Kapiti-Manawatu area. After WEL.

(244) Taiwan

ISC	**V**	**22 01 34 14.4–.45**	**24.12N–.02**	**121.77E–.02**	**16–2**	**4.8b,4.7s**	**502**	**0-168**
NIED	V	22 01 34 00	24.10N	121.70E	23	5.0W,4.7s		**¶16532363**
IDC	V	22 01 34 11.1–.55	24.14N	121.94E	0	4.5,4.5s		
TAP	V	22 01 34 11.9	24.12N	121.76E	6–0	5.0L,4.5s		
JMA	V	22 01 34 11.6–.20	24.11N	121.72E	0	5.3,4.5s		
GCMT	V	22 01 34 12.3–.20	24.12N	121.65E	13–1	5.0W,4.5s		
NEIC	V	22 01 34 12.3–.73	24.09N	121.76E	6–4	5.0W,5.0b		
BJI	V	22 01 34 13.3	24.15N	121.60E	10	5.5L,5.3s		
ISCJB	V	22 01 34 13.3–.24	24.14N–.01	121.82E–.01	19–1	4.7s,4.7b		
MOS	V	22 01 34 15.1–1.4	24.15N	121.92E	35	5.0b,4.7s		
BKK	V	22 01 34 17.9–.70	25N–5.0	122E–8.0	10	5.2b,5.2		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ81.00000°,λ8.00000°. NP2:ϕ_s121.00000°,δ82.00000°,λ171.00000°. $M_0$3.30000×10^{16}
TAP C.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c56; s94,c157;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.73±.15 $M_{\theta\theta}$-3.88±.12; $M_{\phi\phi}$2.15±.11; $M_{r\theta}$2.65±.34; $M_{\theta\phi}$-1.75±.09; $M_{\phi r}$0.90±.30; Best double couple: NP1:ϕ_s53.00000°,δ72.00000°,λ61.00000°. NP2:ϕ_s293.00000°,δ34.00000°,λ145.00000°. Principal axes: T 2.9120,Plg54.0000°,Azm287.0000°; N 2.5270,Plg27.0000°,Azm63.0000° ; P -5.4390,Plg21.0000°,Azm164.0000° $M_0$4.17500×10^{16}
NEIC Event type fe. Felt [III] at Hualien and [II] at Taipei. Also felt at Puli. Recorded [5 TAP] in Hualien; [4 TAP] in Yilan; [2 TAP] in Nantou and Taichung; [1 TAP] in Taoyuan. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}2.07 $M_{\theta\theta}$-3.60 $M_{\phi\phi}$1.53 $M_{r\theta}$3.16 $M_{\theta\phi}$-1.14 $M_{\phi r}$-0.37 Best double couple: NP1:ϕ_s226.00000°,δ29.00000°,λ41.00000°. NP2: ϕ_s99.00000°,δ71.00000°,λ113.00000°. Principal axes: T 3.7800,Plg57.0000°,Azm40.0000° ; N 1.3500,Plg22.0000°,Azm271.0000°; P -5.1300,Plg23.0000°,Azm172.0000° $M_0$4.60000×10^{16}
ISCJB Event type fe.

(123) Northern Chile

ISC	**V**	**22 01 41 03.3–.45**	**19.06S–.03**	**69.63W–.05**	**103–4**	**4.0b**	**77**	**1-151**
SCB	V	22 01 40 59.8–.49	18.97S	69.33W	10	4.0L		**¶16617318**
ISCJB	V	22 01 41 03.4–.29	19.11S–.03	69.66W–.05	116–2	4.1b		
IDC	V	22 01 41 04.2–.59	18.94S	69.31W	105–4	4.4,4.2		
GUC	V	22 01 41 04.2–.37	19.06S	69.50W	94–3	4.3L,4.2		
NEIC	V	22 01 41 04.0	19.06S	69.50W	94	4.0b,4.2		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=14.5km s-min=3.7km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=1.4.
IDC Error ellipse: s-maj=16.2km s-min=13.3km az=84.0.
GUC Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
NEIC Event type fe. Felt [III] at Codpa and [II] at Arica, Cuya, Huara and Pisagua. After GUC.

(228) Near east coast of eastern Honshu

ISC	**V**	**22 03 16 04.3–1.0**	**39.81N–.04**	**142.27E–.08**	**47–8**	**4.3b,3.5s**	**70**	**0-151**
NIED	V	22 03 16 00	39.80N	142.30E	44	4.3W,3.5s		**¶16560119**
ISCJB	V	22 03 16 03.3–.53	39.84N–.03	142.29E–.06	53–3	4.2b,3.5s		

NEIC V 22 03 16 04.8–.64 39.81N 142.24E 53–5 4.5b,3.5s
JMA V 22 03 16 04.2–.10 39.83N 142.27E 43–1 4.1,3.5s
IDC V 22 03 16 07.6–1.9 39.78N 142.15E 76–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ12.00000°,λ79.00000°. NP2:ϕ_s11.00000°,δ78.00000°,λ92.00000°. M_o2.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.5km az=16.4.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=126.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
JMA Event type fe.
IDC Error ellipse: s-maj=16.1km s-min=12.7km az=99.0.

(228) Near east coast of eastern Honshu

ISC V 22 06 17 10.8–.98 37.64N–.05 141.69E–.08 46–9 3.8b 33 1-90
NIED V 22 06 17 00 37.60N 141.60E 56 3.7W **¶17204196**
ISCJB V 22 06 17 09.3–.86 37.62N–.04 141.75E–.08 50–7 3.7b
JMA V 22 06 17 11.3 37.65N 141.60E 45–2 3.7
IDC V 22 06 17 12.2–3.1 37.64N 141.70E 61–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ38.00000°,λ97.00000°. NP2:ϕ_s11.00000°,δ52.00000°,λ84.00000°. M_o4.39000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.9km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=23.6km s-min=17.3km az=78.0.

(162) South Island

WEL V 22 07 06 47.5–.16 43.49S 172.78E 7–1 3.5L
¶601006022
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(30) Off coast of Oregon

ISC V 22 07 21 37.7–.49 43.45N–.06 127.12W–.06 14 4.6b,3.9s 454 3-99
IDC V 22 07 21 35.0–.65 43.48N 126.97W 0 4.2,4.1 **¶16532373**
ISCJB V 22 07 21 37.2–.21 43.53N–.02 126.97W–.03 14 4.4b,3.8s
NEIC V 22 07 21 38.2–.25 43.53N 127.03W 10 4.6b,3.8s
GCMT V 22 07 21 38.2–.30 43.30N 127.45W 20–1 4.9W,3.8s
ISC Event type fe.
IDC Error ellipse: s-maj=17.7km s-min=9.1km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=142.7.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=48.0. Felt at Florence, Gresham, Medford and Salem. Also felt at Crescent City, California.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s88,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.11±.11 $M_{\theta\theta}$-1.95±.09; $M_{\phi\phi}$2.06±.09; $M_{r\theta}$-0.85±.21; $M_{\theta r}$-1.72±.08; $M_{\phi r}$0.26±.16; Best double couple: NP1:ϕ_s115.00000°,δ87.00000°,λ-161.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ-3.00000°. Principal axes: T 2.7980,Plg11.0000°,Azm248.0000°; N -0.0220,Plg71.0000°,Azm124.0000° ; P -2.7790,Plg15.0000°,Azm341.0000° M_o2.78900×10^{16}

(228) Near east coast of eastern Honshu

ISC V 22 08 28 21.8–.38 39.16N–.04 142.90E–.04 25–1 4.7b,4.4s 356 1-145
NIED V 22 08 28 00 39.10N 142.90E 35 4.7W,4.4s **¶17204207**
JMA V 22 08 28 20.1–.10 39.13N 142.98E 22–2 4.7,4.4s
ISCJB V 22 08 28 20.4–.80 39.16N–.03 142.94E–.04 27–5 4.7b,4.3s
NEIC V 22 08 28 23.4–.28 39.15N 142.95E 35 4.7b,4.3s
IDC V 22 08 28 23.3–.55 39.11N 142.87E 35–3 4.4,4.3
MOS V 22 08 28 23.4–.89 39.38N 142.73E 37 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ16.00000°,λ64.00000°. NP2:ϕ_s28.00000°,δ75.00000°,λ97.00000°. M_o1.29000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.5km az=39.2.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=127.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=12.8km s-min=10.5km az=115.0.
MOS Error ellipse: s-maj=7.4km s-min=4.6km az=109.1.

(229) Off east coast of Honshu

ISC V 22 08 33 40.9–.43 39.21N–.04 142.84E–.04 35–1 4.8b,4.3s 354 1-154
NIED V 22 08 33 00 39.10N 143.00E 29 4.7W,4.3s **¶16532375**
JMA V 22 08 33 37.2–.10 39.12N 143.01E 21–2 4.7,4.3s
ISCJB V 22 08 33 39.7–.50 39.14N–.03 142.89E–.04 39–3 4.7b,4.3s
MOS V 22 08 33 40.7–.96 39.41N 142.71E 33 5.0b,4.3s
IDC V 22 08 33 40.7–.49 39.12N 142.90E 35–3 4.5,4.4
NEIC V 22 08 33 41.4–.27 39.21N 142.83E 35 5.0b,4.4
BJI V 22 08 33 41.1 39.19N 142.46E 37 4.9b,4.9b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ22.00000°,λ65.00000°. NP2:ϕ_s24.00000°,δ70.00000°,λ100.00000°. M_o1.14000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=42.1.
MOS Error ellipse: s-maj=7.2km s-min=4.8km az=111.1.
IDC Error ellipse: s-maj=12.2km s-min=10.5km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.1km az=142.0. Felt at Ichinoseki and Tokyo. Recorded [2 JMA] in Iwate.

(229) Off east coast of Honshu

ISC V 22 11 06 58.3–.59 37.65N–.04 142.04E–.04 27–3 4.7b,4.1s 465 1-150
NIED V 22 11 06 00 37.60N 142.10E 8 4.6W,4.1s **¶16535842**
IDC V 22 11 06 54.0–.50 37.56N 141.97E 0 4.6,4.5
JMA V 22 11 06 55.9–.10 37.58N 142.06E 27–3 4.7,4.5
ISCJB V 22 11 06 57.2–.62 37.62N–.03 141.94E–.03 26–4 4.6b,4.0s
NEIC V 22 11 06 58.5–1.1 37.66N 141.95E 23–7 4.7b,4.0s
MOS V 22 11 07 00.1–.94 37.92N 141.89E 40 4.9b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ26.00000°,λ-75.00000°. NP2:ϕ_s21.00000°,δ65.00000°,λ-97.00000°. M_o7.90000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.6km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=147.5.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=145.0. Recorded [2 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=103.0.

(378) Pyrenees

ISC V 22 14 45 11.9–.84 43.02N–.02 1.29W–.02 18–3 413 0-8
CSEM V 22 14 45 12.0–.08 43.00N 1.27W 10 3.3L **¶16532391**
MDD V 22 14 45 12.8–.14 42.99N 1.28W 4–2 3.0
INMG V 22 14 45 12.9–1.1 42.98N 1.29W 1–2 2.7L
STR V 22 14 45 13.8–.25 43.09N 1.20W 3 3.0L
LDG V 22 14 45 13.3–.05 43.02N 1.27W 2 3.4L,3.2
IGIL V 22 14 45 14.5 42.98N 1.29W 2 3.4L,3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=158.0.
MDD Event type fe. Error ellipse: s-maj=1.5km s-min=1.1km az=45.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=44.0.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=149.0.

(229) Off east coast of Honshu

ISC V 22 14 46 11.5–.34 37.64N–.03 143.53E–.03 28–1 5.5b,5.2s 1413 2-159
NIED V 22 14 46 00 37.60N 143.40E 11 5.5W,5.2s **¶16533376**
IDC V 22 14 46 07.3–.40 37.59N 143.60E 0 5.3,5.3
ISCJB V 22 14 46 08.1–.48 37.62N–.02 143.49E–.01 14–2 5.4b,5.2s
JMA V 22 14 46 10.2–.20 37.58N 143.46E 45 5.6,5.2s
NEIC V 22 14 46 11.7–.46 37.60N 143.49E 29–3 5.6W,5.5b
GCMT V 22 14 46 11.7–.10 37.59N 143.59E 17–0 5.6W,5.5b
MOS V 22 14 46 13.4–.85 37.99N 143.47E 40 5.7b,5.2s
BJI V 22 14 46 14.3 37.76N 142.85E 29 5.6b,5.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ68.00000°,λ-8.00000°. NP2:ϕ_s153.00000°,δ83.00000°,λ-158.00000°. M_o2.21000×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.6km az=159.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=149.0. Recorded [2 JMA] in Fukushima and Miyagi. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56 $M_{\theta\theta}$-2.07 $M_{\phi\phi}$2.63 $M_{r\theta}$0.28 $M_{\theta\phi}$1.11 $M_{\phi r}$0.22 Best double couple: NP1:ϕ_s237.00000°,δ88.00000°,λ-8.00000°. NP2:ϕ_s328.00000°,δ82.00000°,λ-178.00000°. Principal axes: T 2.9000,Plg5.0000°,Azm283.0000°; N -0.5600,Plg81.0000°,Azm44.0000° ; P -2.3500,Plg7.0000°,Azm192.0000° M_o2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s90,c173; s122,c317;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.03 $M_{\theta\theta}$-2.17±.03; $M_{\phi\phi}$3.02±.03; $M_{r\theta}$0.05±.08; $M_{\theta\phi}$1.36±.03; $M_{\phi r}$1.05±.09; Best double couple: NP1:ϕ_s329.00000°,δ86.00000°,λ165.00000°. NP2:ϕ_s60.00000°,δ75.00000°,λ4.00000°. Principal axes: T 3.5940,Plg13.0000°,Azm283.0000°; N -1.0670,Plg75.0000°,Azm135.0000° ; P -2.5320,Plg8.0000°,Azm15.0000° M_o3.06300×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=3.4km az=105.7.

(228) Near east coast of eastern Honshu

ISC V 22 15 15 04.7–1.1 36.82N–.03 140.53E–.04 7–8 3.5b 22 0-76
IDC V 22 15 15 03.4–1.0 36.76N 140.53E 0 3.7,3.5 **¶17204230**
ISCJB V 22 15 15 04.1–.69 36.82N–.03 140.63E–.07 14–5 3.3b,3.5
JMA V 22 15 15 04.7 36.82N 140.53E 4–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=14.9km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=5.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s356.00000°,δ49.00000°,λ-118.00000°. NP2:ϕ_s216.00000°,δ49.00000°,λ-62.00000°. Principal axes: T Plg0.0000°,Azm106.0000°; N Plg21.0000°,Azm16.0000°; P Plg69.0000° ,Azm196.0000°

(235) Kyushu

JMA V 22 16 18 12.5 33.03N 130.72E 12–1 3.5
NIED V 22 16 18 00 33.00N 130.70E 11 3.5W **¶600620865**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ65.00000°,λ-30.00000°. NP2:ϕ_s233.00000°,δ63.00000°,λ-152.00000°. Principal axes: T Plg1.0000°,Azm182.0000°; N Plg52.0000°,Azm273.0000°; P Plg38.0000° ,Azm91.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ70.00000°,λ14.00000°. NP2:ϕ_s30.00000°,δ77.00000°,λ159.00000°. M_o1.69000×10^{14}

(250) Mindoro

ISC V 22 16 42 23.5–.21 13.62N–.02 120.81E–.03 139–1 5.5b 1745 0-177
MOS V 22 16 42 22.5–.91 13.61N 120.84E 143 5.4b,4.7s **¶16532394**
MAN V 22 16 42 23 13.65N 120.71E 103 6.0b,5.7s
ISCJB V 22 16 42 23.8–.23 13.63N–.01 120.85E–.02 154–2 5.4b,5.7s
NEIC V 22 16 42 23.0–.00 13.67N 120.72E 134 5.4b,5.7s
BJI V 22 16 42 23.1 13.58N 120.94E 158 5.6b,5.5b
IDC V 22 16 42 23.1–.38 13.59N 120.75E 133–3 5.5,5.2
NEIC V 22 16 42 24.5–.44 13.60N 120.75E 149–4 5.7W,5.7W
GCMT V 22 16 42 24.5–.10 13.67N 120.68E 128–0 5.7W,5.7W
KLM V 22 16 42 24.1 13.66N 120.80E 141 6.1s,5.7b
BKK V 22 16 42 28.3–.60 14N–4.0 121E–3.0 171–5 6.0,5.8
DJA V 22 16 42 29.7–.40 14N–2.0 121E–3.0 196–5 5.8b,5.7
ISC Event type fe.
MAN Event type fe. INTENSITY IV - ILIJAN BATANGAS; INTENSITY III - TAGAYTAY CITY; MALATE MANILA; PTO GALERA ORIENTAL MINDORO; TAGAYTAY CITY; ALABANG MUNTINLUPA; CLARK PAMPANGA; INTENSITY II - MALOLOS BULACAN; INTENSITY I - NICHOLS PASAY.
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}3.80 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$-3.20 $M_{r\theta}$0.30 $M_{\theta\phi}$0.70 $M_{\phi r}$1.20 Best double couple: NP1:ϕ_s354.00000° ,δ54.00000°,λ98.00000°. NP2:ϕ_s160.00000°,δ36.00000°,λ78.00000°. Principal axes: T 4.0000,Plg78.0000°,Azm295.0000°; N -0.4000,Plg6.0000°,Azm169.0000° ; P -3.6000,Plg8.0000°,Azm78.0000° M_o4.00000×10^{17}
NEIC Event type fe. Felt [IV PIVS] at Abra de Ilog and [III PIVS] at Calapan and Puerto Galera. Also felt at Naujan. Felt [IV PIVS] at Ilijan; [III PIVS] at Alabang, Clark Field, Malate and Tagaytay; [II PIVS] at Malolos; [I PIVS] at Nichols; [IV] at Batangas and Olongapo; [II] at Cavite, Manila and Santa Rosa, Luzon. Felt widely in central Luzon and as far as Abucay. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95 $M_{\theta\theta}$-0.28 $M_{\phi\phi}$-3.67 $M_{r\theta}$0.64 $M_{\theta\phi}$0.60 $M_{\phi r}$1.44 Best double couple: NP1:ϕ_s160.00000°,δ37.00000°,λ72.00000°. NP2:ϕ_s1.00000°,δ55.00000°,λ103.00000°. Principal axes: T 4.3300,Plg76.0000° ,Azm310.0000°; N -0.3400,Plg10.0000°,Azm174.0000°; P -4.0000,Plg10.0000° ,Azm83.0000° M_o4.20000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c223; s128,c328;Duration: 1s7 Moment tensor: Scale 10^{17} Nm; M_{rr}4.04±.03 $M_{\theta\theta}$-0.59±.04; $M_{\phi\phi}$-3.45±.04; $M_{r\theta}$0.23±.03; $M_{\theta\phi}$0.74±.04; $M_{\phi r}$1.36±.04; Best double couple: NP1:ϕ_s353.00000°,δ55.00000°,λ98.00000°. NP2:ϕ_s160.00000° ,δ36.00000°,λ79.00000°. Principal axes: T 4.3050,Plg79.0000°,Azm292.0000° ; N -0.4720,Plg6.0000°,Azm169.0000°; P -3.8360,Plg9.0000°,Azm78.0000° M_o4.07100×10^{17}

(259) Mindanao

ISC V 22 19 07 45.1–.36 6.00N–.03 125.76E–.04 168–2 5.2b 905 1-172
MOS V 22 19 07 41.4–.88 5.97N 125.59E 148 5.3b **¶16533381**
BJI V 22 19 07 43.5 6.02N 125.69E 161 5.2b,4.9b
KLM V 22 19 07 44.9 6.07N 126.00E 180 6.2s,5.4b
IDC V 22 19 07 44.5–.49 5.95N 125.61E 161–4 5.2,4.9
ISCJB V 22 19 07 45.2–.28 5.99N–.02 125.75E–.02 181–2 5.2b,4.9
GCMT V 22 19 07 46.1–.20 5.91N 125.79E 154–1 5.2W,4.9
NEIC V 22 19 07 46.1–.52 6.01N 125.70E 175–5 5.3b,4.9
DJA V 22 19 07 47.2–.80 6N–6.0 126E–7.0 120–12 5.7,5.6b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c56; s90,c156;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.24±.15 $M_{\theta\theta}$0.47±.18; $M_{\phi\phi}$-5.72±.22; $M_{r\theta}$1.07±.13; $M_{\theta\phi}$-2.73±.17; $M_{\phi r}$2.75±.17; Best double couple: NP1:ϕ_s21.00000°,δ58.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ32.00000°,λ89.00000°. Principal axes: T 5.9270,Plg77.0000°,Azm292.0000°; N 1.5060,Plg0.0000°,Azm201.0000° ; P -7.4380,Plg13.0000°,Azm111.0000° M_o6.68300×10^{16}
NEIC Event type fe. Felt at General Santos and Tupi.

(244) Taiwan

ISC V 22 21 07 15.7–.64 23.88N–.01 121.07E–.02 18–2 4.4b 239 0-83
NIED V 22 21 07 00 23.90N 121.10E 20 4.5W **¶16550619**
BJI V 22 21 07 13.4 24.05N 120.95E 10 4.6b,4.4b
JMA V 22 21 07 14.5–.20 23.91N 121.06E 0 4.3,4.4b
TAP V 22 21 07 16.0 23.88N 121.06E 19–0 4.7L,4.4b
ISCJB V 22 21 07 16.6–.15 23.89N–.01 121.07E–.01 28–1 4.3b,4.1s
NEIC V 22 21 07 16.0 23.88N 121.06E 19 4.7L,4.5b
IDC V 22 21 07 18.7–2.8 23.77N 121.22E 51–25 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ27.00000°,λ72.00000°. NP2:ϕ_s65.00000°,δ65.00000°,λ99.00000°. M_o5.79000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=43.3.
NEIC Event type fe. Recorded [3 TAP] in Hualien; [2 TAP] in Changhua, Hualien, Taichung and Yunlin; [1 TAP] in Chiayi, Miaoli, Yilan and Yunlin. After TAP.
IDC Error ellipse: s-maj=18.2km s-min=11.8km az=67.0.

(228) Near east coast of eastern Honshu

ISC V 22 21 39 53.8–.37 37.59N–.03 141.62E–.04 46–3 4.7b,3.9s 367 1-155
NIED V 22 21 39 00 37.60N 141.60E 47 4.5W,3.9s **¶16535857**
MOS V 22 21 39 52.1–.89 37.62N 141.57E 46 4.9b,3.9s
ISCJB V 22 21 39 52.6–.41 37.58N–.02 141.62E–.04 51–3 4.7b,4.0s
JMA V 22 21 39 53.4–.10 37.61N 141.61E 43–2 4.3,4.0s
NEIC V 22 21 39 54.8–.37 37.59N 141.59E 57–3 4.9b,4.0s
IDC V 22 21 39 54.3–.41 37.59N 141.55E 51–4 4.4,4.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ13.00000°,λ98.00000°. NP2:ϕ_s16.00000°,δ78.00000°,λ88.00000°. M_o5.63000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=24.1.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=129.0. Felt at Tokyo. Recorded [2 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=12.1km s-min=9.1km az=108.0.

(13) Kodiak Island region

ISC V 22 22 37 48.9–.74 56.32N–.08 153.15W–.06 22 3.8b 45 1-84
IDC V 22 22 37 44.9–1.1 56.17N 153.33W 0 4.0,3.8 **¶16710660**
ISCJB V 22 22 37 46.8–.54 56.25N–.05 153.08W–.08 22 3.8b,3.5s
NEIC V 22 22 37 49.7 56.16N 153.10W 6 3.6L,3.5s
ISC Event type fe.

IDC Error ellipse: s-maj=32.1km s-min=15.1km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=4.4.
NEIC Event type fe. Felt [II] at Kodiak. After AEIC.

(162) South Island

WEL	**V**	**22 23 06 47.8–.30**	**43.54S**	**172.85E**	**6–1**	**3.5L**		**¶601006047**

WEL Event type fe. Error ellipse: s-maj=2.6km s-min=1.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**V**	**23 03 26 21.4–1.1**	**38.15N–.05**	**141.71E–.08**	**51–9**	**4.0b**	**47**	**0-89**
NIED	V	23 03 26 00	38.20N	141.70E	56	3.9W		**¶16560130**
ISCJB	V	23 03 26 20.5–.66	38.16N–.04	141.71E–.08	58–5	3.9b,2.9s		
JMA	V	23 03 26 21.3–.10	38.16N	141.68E	51–1	3.8,2.9s		
IDC	V	23 03 26 23.4–2.4	38.16N	141.63E	70–21	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ25.00000°,λ93.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ89.00000°. $M_0$8.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=4.7km az=22.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=14.7km az=80.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**23 05 21 00.6–.93**	**38.22N–.04**	**141.92E–.05**	**23–5**	**4.5b,3.7s**	**181**	**1-146**
NIED	V	23 05 20 00	38.20N	142.20E	5	4.4W,3.7s		**¶16535862**
JMA	V	23 05 20 56.8–.20	38.19N	142.15E	16–1	4.8,3.7s		
ISCJB	V	23 05 20 59.0–.82	38.19N–.03	142.06E–.04	27–5	4.4b,3.7s		
MOS	V	23 05 21 01.5–1.2	38.14N	141.92E	47	4.7b,3.7s		
IDC	V	23 05 21 01.8–2.9	38.13N	141.99E	39–25	4.2,4.1		
NEIC	V	23 05 21 04.4–.77	38.22N	141.86E	52–7	4.6b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ45.00000°,λ-94.00000°. NP2:ϕ_s337.00000°,δ45.00000°,λ-86.00000°. $M_0$4.45000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=34.9.
MOS Error ellipse: s-maj=9.6km s-min=5.8km az=107.0.
IDC Error ellipse: s-maj=17.6km s-min=14.0km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=6.9km az=134.0. Recorded [2 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**23 05 33 24.9–2.4**	**38.71N–.06**	**142.3E–.10**	**33–10**	**3.7b**	**21**	**1-59**
NIED	V	23 05 33 00	38.70N	142.30E	53	3.7W		**¶17204283**
IDC	V	23 05 33 18.1–2.8	38.84N	142.80E	0	3.7,3.7b		
ISCJB	V	23 05 33 24.9–1.5	38.69N–.05	142.3E–.10	48–11	3.7b,3.7b		
JMA	V	23 05 33 25.3–.10	38.70N	142.25E	38–2	3.9,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ16.00000°,λ139.00000°. NP2:ϕ_s24.00000°,δ79.00000°,λ78.00000°. $M_0$4.52000×10^{14}
IDC Error ellipse: s-maj=68.3km s-min=32.6km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=18.6km s-min=7.9km az=10.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**23 07 17 41.3–1.6**	**38.27N–.05**	**141.8E–.10**	**46–13**		**23**	**0-58**
NIED	V	23 07 17 00	38.30N	141.70E	47	3.9W		**¶17204289**
IDC	V	23 07 17 32.7–3.0	38.46N	142.40E	0	3.6,3.5b		
ISCJB	V	23 07 17 41.1–1.0	38.28N–.04	141.8E–.10	55–9	3.3b,3.5b		
JMA	V	23 07 17 42.0–.10	38.30N	141.74E	51–1	3.7,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ12.00000°,λ68.00000°. NP2:ϕ_s356.00000°,δ79.00000°,λ95.00000°. $M_0$9.31000×10^{14}
IDC Error ellipse: s-maj=69.3km s-min=38.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=5.8km az=19.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(230) Near south coast of eastern Honshu

ISC	**V**	**23 09 32 25.3–.80**	**35.90N–.04**	**139.67E–.07**	**90–6**	**4.0b**	**38**	**0-117**
NIED	V	23 09 32 00	35.90N	139.70E	92	3.9W		**¶17204292**
ISCJB	V	23 09 32 24.3–.43	35.88N–.04	139.65E–.07	96–3	3.9b		
IDC	V	23 09 32 25.5–1.1	35.84N	139.62E	94–10	4.0,3.8		
JMA	V	23 09 32 25.8–.20	35.91N	139.68E	85–2	3.6,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ29.00000°,λ70.00000°. NP2:ϕ_s9.00000°,δ63.00000°,λ101.00000°. $M_0$7.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.5km az=160.9.
IDC Error ellipse: s-maj=22.5km s-min=7.3km az=67.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ56.00000°,λ88.00000°. NP2: ϕ_s186.00000°,δ34.00000°,λ93.00000°. Principal axes: T Plg79.0000°,Azm264.0000° ; N Plg2.0000°,Azm4.0000°; P Plg11.0000°,Azm94.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**23 10 37 47.3–1.5**	**37.00N–.05**	**141.3E–.10**	**40–11**	**3.9b,3.6s**	**33**	**0-74**
ISCJB	V	23 10 37 46.6–.81	36.98N–.04	141.25E–.08	51–6	3.7b,3.7s		**¶600621357**
IDC	V	23 10 37 48.8–2.6	37.03N	141.35E	55–24	3.8,3.7		
JMA	V	23 10 37 48.4–.10	37.01N	141.12E	50–1	3.9,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=19.2.
IDC Error ellipse: s-maj=21.9km s-min=18.8km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**23 14 40 26.0–.60**	**38.13N–.04**	**142.60E–.04**	**29–3**	**4.7b,4.3s**	**380**	**1-149**
NIED	V	23 14 40 00	38.00N	142.60E	17	4.6W,4.3s		**¶16535869**
IDC	V	23 14 40 21.5–.55	38.03N	142.57E	0	4.5,4.4		
JMA	V	23 14 40 22.7–.20	38.06N	142.65E	32–4	4.8,4.4		
ISCJB	V	23 14 40 24.4–.80	38.10N–.03	142.51E–.03	29–5	4.7b,4.3s		
MOS	V	23 14 40 25.2–.92	38.15N	142.51E	34	4.9b,4.0s		
NEIC	V	23 14 40 27.2–.49	38.12N	142.49E	37–4	4.7b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ15.00000°,λ161.00000°. NP2:ϕ_s356.00000°,δ85.00000°,λ75.00000°. $M_0$1.02000×10^{16}
IDC Error ellipse: s-maj=14.4km s-min=12.2km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=154.0.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=138.0. Recorded [2 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

JMA	**V**	**23 15 09 09.6**	**36.89N**	**140.69E**	**10–1**	**3.5**		
NIED	V	23 15 09 00	36.90N	140.70E	8	3.3W		**¶600621510**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s181.00000°,δ70.00000°,λ-81.00000°. NP2:ϕ_s337.00000°,δ22.00000°,λ-112.00000°. Principal axes: T Plg24.0000°,Azm264.0000°; N Plg8.0000°,Azm358.0000°; P Plg64.0000° ,Azm105.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ37.00000°,λ-69.00000°. NP2:ϕ_s219.00000°,δ55.00000°,λ-105.00000°. $M_0$1.06000×10^{14}

(227) Eastern Honshu

ISC	**V**	**23 18 32 33.1–.94**	**37.10N–.03**	**140.64E–.06**	**10–10**		**21**	**0-61**
ISCJB	V	23 18 32 33.0–.61	37.08N–.03	140.77E–.06	16–5	3.6b		**¶17204315**
JMA	V	23 18 32 33.6	37.09N	140.67E	8–1	3.2		
IDC	V	23 18 32 34.1–4.0	36.69N	140.73E	0	3.7,3.5b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=12.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s359.00000°,δ64.00000°,λ-102.00000°. NP2:ϕ_s204.00000°,δ28.00000°,λ-68.00000°. Principal axes: T Plg18.0000°,Azm98.0000°; N Plg10.0000°,Azm5.0000°; P Plg69.0000° ,Azm246.0000°
IDC Error ellipse: s-maj=80.8km s-min=29.4km az=23.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**23 18 50 14.0–.10**	**38.33N**	**142.04E**	**26–1**	**3.9**		
NIED	V	23 18 50 00	38.30N	142.00E	20	3.4W		**¶600621689**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ67.00000°,λ1.00000°. NP2:ϕ_s76.00000°,δ89.00000°,λ157.00000°. $M_0$1.61000×10^{14}

(161) Off west coast of South Island

WEL	**V**	**23 19 51 00.8–.45**	**41.00S**	**172.19E**	**5**	**3.5L**		**¶16537227**

WEL Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=90.0. Felt from Nelson to West Coast, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA	**V**	**23 21 53 55.4–.10**	**37.16N**	**141.20E**	**31–1**	**3.5**		
NIED	V	23 21 53 00	37.20N	141.20E	26	3.3W		**¶600621749**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ38.00000°,λ-51.00000°. NP2:ϕ_s204.00000°,δ61.00000°,λ-117.00000°. $M_0$9.74000×10^{13}

(228) Near east coast of eastern Honshu

ISC	**V**	**23 21 55 27.5–1.4**	**38.51N–.06**	**141.8E–.10**	**51–10**	**3.8b**	**28**	**0-76**
NIED	V	23 21 55 00	38.50N	141.70E	56	3.7W		**¶17204329**
IDC	V	23 21 55 16.8–1.4	38.76N	142.66E	0	3.9,3.8b		
ISCJB	V	23 21 55 26.7–.95	38.51N–.04	141.8E–.10	59–5	3.7b,3.8b		
JMA	V	23 21 55 28.2–.10	38.54N	141.71E	54–1	3.8,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ25.00000°,λ86.00000°. NP2:ϕ_s17.00000°,δ65.00000°,λ92.00000°. $M_0$3.48000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=28.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=5.9km az=17.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**23 23 56 38.9–2.2**	**36.06N–.06**	**141.24E–.08**	**16–13**	**3.6b**	**19**	**0-60**
NIED	V	23 23 56 00	36.00N	141.20E	17	3.5W		**¶17204339**
IDC	V	23 23 56 37.0–1.8	35.99N	141.31E	0	4.0L,3.8		
ISCJB	V	23 23 56 38.7–1.2	35.99N–.05	141.27E–.08	29–6	3.7b,3.8		
JMA	V	23 23 56 39.3–.10	36.00N	141.22E	37–2	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ24.00000°,λ-60.00000°. NP2:ϕ_s7.00000°,δ69.00000°,λ-103.00000°. $M_0$2.10000×10^{14}
IDC Error ellipse: s-maj=52.3km s-min=19.1km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.9km az=152.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 00 55 18.8–.65**	**35.67N–.06**	**140.81E–.07**	**49–5**	**3.8b,3.0s**	**35**	**0-81**
NIED	V	24 00 55 00	35.80N	140.70E	50	4.0W,3.0s		**¶17204342**
ISCJB	V	24 00 55 17.4–.52	35.65N–.04	140.83E–.07	56–4	3.9b,2.9s		
JMA	V	24 00 55 18.3–.10	35.75N	140.68E	48–1	3.4,2.9s		
IDC	V	24 00 55 19.1–.81	35.61N	140.76E	52–7	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ23.00000°,λ75.00000°. NP2:ϕ_s13.00000°,δ67.00000°,λ97.00000°. $M_0$1.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.9km az=164.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s0.00000°,δ78.00000°,λ80.00000°. NP2: ϕ_s221.00000°,δ16.00000°,λ130.00000°. Principal axes: T Plg56.0000°,Azm257.0000° ; N Plg10.0000°,Azm3.0000°; P Plg32.0000°,Azm99.0000°
IDC Error ellipse: s-maj=12.3km s-min=8.4km az=63.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 01 10 26.1–.82**	**35.74N–.05**	**140.75E–.08**	**47–7**	**3.7b**	**24**	**0-79**
ISCJB	V	24 01 10 24.6–.67	35.74N–.06	140.80E–.10	53–4	3.7b		**¶17204343**
JMA	V	24 01 10 25.6–.10	35.75N	140.67E	45–1	3.3		
IDC	V	24 01 10 32.8–2.4	35.29N	139.36E	71–17	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=8.3km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s18.00000°,δ78.00000°,λ89.00000°. NP2: ϕ_s203.00000°,δ12.00000°,λ94.00000°. Principal axes: T Plg57.0000°,Azm287.0000° ; N Plg1.0000°,Azm18.0000°; P Plg33.0000°,Azm109.0000°
IDC Error ellipse: s-maj=34.0km s-min=18.5km az=67.0.

(229) Off east coast of Honshu

ISC	**V**	**24 03 40 52.1–.32**	**39.78N–.02**	**143.32E–.03**	**24–1**	**5.8b,5.6s**	**2011**	**1-158**
NIED	V	24 03 40 00	39.80N	143.50E	17	5.8W,5.6s		**¶602607425**
IDC	V	24 03 40 48.8–.48	39.74N	143.37E	0	5.7,5.7s		
ISCJB	V	24 03 40 49.6–.53	39.75N–.02	143.33E–.01	12–3	5.7b,5.7s		
JMA	V	24 03 40 50.0–.20	39.78N	143.49E	27	5.8,5.7s		
BJI	V	24 03 40 51.6	39.75N	143.15E	30	6.1,6.1s		
NEIC	V	24 03 40 51.3–.10	39.71N	143.25E	16	5.8,5.8W		
GCMT	V	24 03 40 52.2–.10	39.75N	143.42E	25	5.9W,5.8W		
NEIC	V	24 03 40 52.0–.00	39.72N	143.24E	22	5.9W,5.8W		
MOS	V	24 03 40 53.1–.90	39.92N	143.21E	31	6.0b,5.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ66.00000°. NP2:ϕ_s28.00000°,δ71.00000°,λ99.00000°. $M_0$5.34000×10^{17}
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=143.0. Felt at Ichinoseki and Misawa. Recorded [3 JMA] in Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}3.10 $M_{\theta\theta}$-0.85 $M_{\phi\phi}$-2.25 $M_{r\theta}$2.96 $M_{\theta\phi}$-1.12 $M_{\phi r}$5.36 Best double couple: NP1:ϕ_s209.00000°,δ13.00000°,λ90.00000°. NP2:ϕ_s29.00000° ,δ77.00000°,λ90.00000°. Principal axes: T 6.9300,Plg58.0000°,Azm299.0000° ; N -0.2300,Plg0.0000°,Azm29.0000°; P -6.7000,Plg32.0000°,Azm119.0000° $M_0$6.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c237; s134,c379;Duration: 2τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}3.45±.04 $M_{\theta\theta}$-0.04±.03; $M_{\phi\phi}$-3.41±.03; $M_{r\theta}$3.08±.09; $M_{\theta\phi}$-0.90±.03; $M_{\phi r}$6.37±.08; Best double couple: NP1:ϕ_s25.00000° ,δ77.00000°,λ95.00000°. NP2:ϕ_s183.00000°,δ14.00000°,λ69.00000°. Principal axes: T 7.8850,Plg58.0000°,Azm301.0000°; N 0.0550,Plg5.0000°,Azm203.0000° ; P -7.9440,Plg32.0000°,Azm110.0000° $M_0$7.91400×10^{17}
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}2.58 $M_{\theta\theta}$-0.38 $M_{\phi\phi}$-2.19 $M_{r\theta}$1.81 $M_{\theta\phi}$-0.33 $M_{\phi r}$5.71 Best double couple: NP1:ϕ_s17.00000° ,δ79.00000°,λ92.00000°. NP2:ϕ_s186.00000°,δ11.00000°,λ79.00000°. Principal axes: T 6.6300,Plg55.0000°,Azm289.0000°; N -0.3600,Plg2.0000°,Azm196.0000° ; P -6.2800,Plg34.0000°,Azm105.0000° $M_0$6.50000×10^{17}
MOS Error ellipse: s-maj=5.5km s-min=3.5km az=102.3.

(227) Eastern Honshu

JMA	**V**	**24 04 14 14.3**	**36.95N**	**139.43E**	**4–1**	**2.7**		**¶600621935**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 04 46 53.4–2.3**	**38.36N–.06**	**142.20E–.08**	**9–14**	**3.6b**	**26**	**1-89**
IDC	V	24 04 46 52.0–1.0	38.24N	142.40E	0	3.9,3.8L		**¶17204353**
ISCJB	V	24 04 46 53.1–2.0	38.37N–.05	142.3E–.10	15–14	3.7b,3.8L		
JMA	V	24 04 46 55.0–.10	38.45N	142.23E	28–1	4.0,3.8L		

ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=20.9km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=6.8km az=24.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 05 29 53.8–1.6**	**36.94N–.05**	**141.26E–.06**	**13–9**	**3.8b**	**30**	**0-147**
NIED	V	24 05 29 00	37.00N	141.20E	35	4.3W		**¶17204357**
IDC	V	24 05 29 51.5–.87	36.83N	141.43E	0	3.9,3.8		
ISCJB	V	24 05 29 52.1–1.3	36.98N–.05	141.38E–.05	11–6	3.7b,3.8		
JMA	V	24 05 29 54.7–.10	37.00N	141.20E	32–1	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s290.00000°,δ4.00000°,λ-64.00000°. NP2:ϕ_s85.00000°,δ86.00000°,λ-92.00000°. $M_0$3.25000×10^{15}
IDC Error ellipse: s-maj=20.5km s-min=19.6km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.6km az=163.8.
JMA Event type fe.

(224) Hokkaido region

ISC	**V**	**24 05 43 29.2–.52**	**42.32N–.04**	**143.13E–.04**	**57–5**	**4.1b**	**89**	**0-148**
ISCJB	V	24 05 43 28.6–.29	42.29N–.03	143.12E–.04	69–2	4.2b		**¶16710784**
IDC	V	24 05 43 29.0–.61	42.34N	143.05E	55–5	4.2,4.1		
MOS	V	24 05 43 28.0–1.1	42.32N	142.96E	63	4.5b,4.1		
NEIC	V	24 05 43 29.5–.58	42.34N	143.04E	60–6	4.6b,4.1		
JMA	V	24 05 43 30.5–.10	42.36N	143.12E	50–1	4.1,4.1		

ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=141.2.
IDC Error ellipse: s-maj=14.7km s-min=11.5km az=119.0.
MOS Error ellipse: s-maj=11.6km s-min=7.4km az=75.6.
NEIC Event type fe. Error ellipse: s-maj=9.1km s-min=6.7km az=111.0. Recorded [2 JMA] in southern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

(59) Guerrero

ISC	**V**	**24 06 21 12.7–.67**	**17.40N–.03**	**99.46W–.03**	**22–5**	**4.0b**	**81**	**1-58**
IDC	V	24 06 21 05.8–4.6	17.10N	99.57W	0	4.1,3.9		**¶16538118**
MEX	V	24 06 21 16.6–.77	17.41N	99.46W	44–10	3.9,3.9		
NEIC	V	24 06 21 16.7	17.42N	99.46W	39	4.0b,3.9		

ISC Event type fe.
IDC Error ellipse: s-maj=86.3km s-min=33.9km az=8.0.
MEX Error ellipse: s-maj=2.9km s-min=2.1km az=-1.0.
NEIC Event type fe. Felt at Chilpancingo. After MEX.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 06 37 22.2–1.8**	**35.8N–.10**	**141.1E–.20**	**31**	**3.7b**	**15**	**0-56**
IDC	V	24 06 37 17.1–3.0	35.81N	141.24E	0	3.7,3.6		**¶17204360**
ISCJB	V	24 06 37 20.7–1.3	35.87N–.09	141.2E–.10	31	3.5b,3.6		
JMA	V	24 06 37 25.4–.10	35.73N	140.67E	47–1	3.0,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=86.8km s-min=24.5km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=18.1km s-min=7.7km az=142.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 08 03 26.6–2.1**	**37.08N–.06**	**141.43E–.09**	**17–10**	**3.7b**	**22**	**1-57**
NIED	V	24 08 03 00	37.10N	141.10E	50	3.8W		**¶17204365**
IDC	V	24 08 03 24.1–1.3	37.15N	141.38E	0	3.8b,3.8		
JMA	V	24 08 03 31.8–.10	37.11N	141.13E	51–1	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ16.00000°,λ72.00000°. NP2:ϕ_s29.00000°,δ75.00000°,λ95.00000°. M_o6.00000×10^{14}
IDC Error ellipse: s-maj=26.3km s-min=19.3km az=160.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(259) Mindanao

ISC	**V**	**24 08 13 43.8–.83**	**8.01N–.04**	**126.55E–.07**	**89–6**	**4.2b**	**45**	**0-144**
IDC	V	24 08 13 41.9–3.7	8.11N	126.70E	73–33	4.3,4.2		**¶16632917**
ISCJB	V	24 08 13 43.1–.55	8.01N–.03	126.53E–.06	97–4	4.2b,4.2		
NEIC	V	24 08 13 44.2–2.2	8.02N	126.59E	94–19	4.5b,4.2		
MAN	V	24 08 13 44	7.96N	126.45E	98	4.7b,3.6L		

ISC Event type fe.
IDC Error ellipse: s-maj=37.7km s-min=15.1km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=175.2.
NEIC Event type fe. Error ellipse: s-maj=37.1km s-min=11.2km az=71.0. Felt [I PIVS] at Lingig.
MAN Event type fe. INTENSITY I - LINGIG SURIGAO DEL SUR.

(238) Ryukyu Islands

ISC	**V**	**24 09 58 41.9–.72**	**27.31N–.05**	**128.95E–.05**	**46–6**	**4.0b**	**44**	**0-115**
NIED	V	24 09 58 00	27.30N	128.90E	29	3.8W		**¶16560140**
ISCJB	V	24 09 58 40.8–.48	27.32N–.04	128.96E–.06	53–4	3.9b,2.6s		
JMA	V	24 09 58 41.6–.10	27.31N	128.94E	42–2	3.7,2.6s		
IDC	V	24 09 58 42.4–.79	27.38N	128.85E	47–8	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ48.00000°,λ56.00000°. NP2:ϕ_s346.00000°,δ52.00000°,λ122.00000°. M_o6.48000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=4.0km az=37.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=12.4km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 10 18 13.4–.83**	**36.80N–.03**	**141.21E–.04**	**16–4**	**4.5b,3.6s**	**192**	**0-147**
NIED	V	24 10 18 00	36.80N	141.30E	8	4.4W,3.6s		**¶16538120**
IDC	V	24 10 18 10.6–.45	36.78N	141.21E	0	4.4,4.3		
JMA	V	24 10 18 12.8–.10	36.78N	141.29E	36–1	4.6,4.3		
MOS	V	24 10 18 14.8–1.2	36.85N	141.21E	37	4.7b,4.3		
ISCJB	V	24 10 18 14.0–.59	36.78N–.02	141.19E–.03	29–3	4.5b,3.6s		
NEIC	V	24 10 18 16.5–.18	36.77N	141.11E	35	4.7b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ47.00000°,λ-122.00000°. NP2:ϕ_s215.00000°,δ52.00000°,λ-60.00000°. M_o4.55000×10^{15}
IDC Error ellipse: s-maj=14.2km s-min=10.8km az=108.0.
JMA Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=5.9km az=94.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=27.7.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.7km az=147.0. Recorded [3 JMA] in Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 11 49 22.5–.50**	**36.43N–.03**	**141.08E–.03**	**32–3**	**5.2b,4.5s**	**755**	**0-152**
NIED	V	24 11 49 00	36.40N	141.20E	29	4.9W,4.5s		**¶16538121**
BJI	V	24 11 49 19.4	36.41N	141.21E	36	5.0b,4.9b		
JMA	V	24 11 49 20.3–.10	36.40N	141.12E	44–1	5.0,4.9b		
IDC	V	24 11 49 22.8–1.8	36.36N	141.05E	34–13	4.9,4.8		
ISCJB	V	24 11 49 22.5–.31	36.42N–.02	141.01E–.02	39–2	5.1b,4.5s		
MOS	V	24 11 49 23.3–.97	36.75N	140.93E	33	5.4b,4.3s		
GCMT	V	24 11 49 23.5–.30	36.51N	140.99E	31–1	5.0W,4.3s		
NEIC	V	24 11 49 23.5–.10	36.38N	140.94E	35	5.3b,4.3s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ18.00000°,λ-119.00000°. NP2:ϕ_s255.00000°,δ74.00000°,λ-81.00000°. M_o2.34000×10^{16}
JMA Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=8.8km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=43.3.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=103.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c44; s88,c130; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.16±.13 $M_{\theta\theta}$1.31±.08; $M_{\phi\phi}$0.85±.08; $M_{r\theta}$2.81±.15; $M_{\theta\phi}$1.04±.05; $M_{\phi r}$0.69±.09; Best double couple: NP1:ϕ_s250.00000°,δ72.00000°,λ-78.00000°. NP2:ϕ_s37.00000°,δ21.00000°,λ-122.00000°. Principal axes: T 3.4690,Plg26.0000°,Azm331.0000°; N 0.2670,Plg11.0000°,Azm67.0000° ; P -3.7290,Plg61.0000°,Azm177.0000° M_o3.59900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=142.0. Felt at Hitachinaka and Tokyo. Recorded [3 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

JMA	**V**	**24 11 50 31.3–.20**	**35.68N**	**140.04E**	**69–2**	**3.8**	
							¶600622167

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(7) Andreanof Islands

ISC	**V**	**24 17 43 23.9–.19**	**52.54N–.03**	**173.24W–.02**	**142–1**	**5.6b**	**2468**	**1-161**
BJI	V	24 17 43 23.1	52.66N	173.49W	143	5.9b,5.4b		**¶16538127**
ISCJB	V	24 17 43 23.6–.18	52.57N–.02	173.19W–.01	149–1	5.5b,5.4b		
MOS	V	24 17 43 23.4–.89	52.60N	173.23W	145	5.6b,4.0s		
GCMT	V	24 17 43 24.1–.10	52.49N	173.18W	142–0	5.5W,4.0s		
IDC	V	24 17 43 24.2–.35	52.59N	173.25W	140–2	5.4,5.1		
NEIC	V	24 17 43 24.1–.08	52.60N	173.26W	138	5.6b,5.5W		
NEIC	V	24 17 43 25.0–.00	52.61N	173.22W	150	5.6b,5.5W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.4km az=176.3.
MOS Error ellipse: s-maj=5.8km s-min=4.0km az=88.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c194; s124,c277;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.02 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.68±.03; $M_{r\theta}$1.70±.02; $M_{\theta\phi}$0.13±.03; $M_{\phi r}$1.21±.02; Best double couple: NP1:ϕ_s233.00000°,δ90.00000°,λ-72.00000°. NP2:ϕ_s324.00000°,δ18.00000°,λ-180.00000°. Principal axes: T 2.1400,Plg42.0000°,Azm306.0000°; N 0.1030,Plg18.0000°,Azm53.0000° ; P -2.2430,Plg42.0000°,Azm160.0000° M_o2.19200×10^{17}
IDC Error ellipse: s-maj=8.6km s-min=5.8km az=170.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.4km az=169.0. Felt at Atka. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11 $M_{\theta\theta}$-0.88 $M_{\phi\phi}$1.00 $M_{r\theta}$1.84 $M_{\theta\phi}$0.33 $M_{\phi r}$1.36 Best double couple: NP1:ϕ_s326.00000°,δ24.00000°,λ-176.00000°. NP2: ϕ_s233.00000°,δ89.00000°,λ-67.00000°. Principal axes: T 2.5000,Plg39.0000°,Azm302.0000° ; N 0.0000,Plg23.0000°,Azm52.0000°; P -2.5000,Plg42.0000°,Azm165.0000° M_o2.50000×10^{17}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.20 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$0.30 $M_{r\theta}$1.80 $M_{\theta\phi}$0.20 $M_{\phi r}$1.10 Best double couple: NP1:ϕ_s58.00000°,δ88.00000° ,λ78.00000°. NP2:ϕ_s319.00000°,δ12.00000°,λ171.00000°. Principal axes: T 2.2000,Plg45.0000°,Azm316.0000°; N 0.0000,Plg11.0000°,Azm58.0000° ; P -2.1000,Plg41.0000°,Azm159.0000° M_o2.00000×10^{17}

(162) South Island

WEL	**V**	**24 18 00 21.0–.08**	**43.58S**	**172.70E**	**6–0**	**4.1L**		
NEIC	V	24 18 00 15.9	43.69S	172.91E	36	3.9L		**¶16543230**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.

(244) Taiwan

ISC	**V**	**24 18 32 04.8–.47**	**23.44N–.02**	**121.62E–.02**	**35–1**	**4.0b**	**212**	**0-125**
NIED	V	24 18 32 00	23.40N	121.70E	38	4.1W		**¶16539597**
JMA	V	24 18 32 03.3–.20	23.41N	121.65E	32–4	4.4		
BJI	V	24 18 32 03.1	23.54N	121.47E	10	4.5b,4.3b		
ISCJB	V	24 18 32 04.4–.19	23.42N–.02	121.63E–.01	48–2	4.2b,3.5s		
NEIC	V	24 18 32 04.5–.74	23.44N	121.62E	39–7	4.4b,3.5s		
TAP	V	24 18 32 05.1	23.45N	121.53E	37–0	4.7L,3.5s		
IDC	V	24 18 32 07.8–6.0	23.35N	121.52E	65–56	4.0,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ33.00000°,λ130.00000°. NP2:ϕ_s6.00000°,δ65.00000°,λ67.00000°. M_o1.74000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=152.2.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.5km az=127.0. Recorded [3 TAP] in Taitung, [2 TAP] in Hualien and [1 TAP] in Changhua, Chiayi, Miaoli, Nantou and Yunlin.
TAP B.
IDC Error ellipse: s-maj=32.3km s-min=12.4km az=67.0.

(49) Gulf of California

ISC	**V**	**24 19 01 43.4–.43**	**27.69N–.04**	**111.53W–.04**	**10**	**4.7b,4.6s**	**529**	**1-125**
ISCJB	V	24 19 01 40.3–.29	27.52N–.03	111.47W–.02	10	4.6b,4.5s		**¶16544919**
ECX	V	24 19 01 41.9–.32	27.82N	111.70W	10	5.4,4.5s		
GCMT	V	24 19 01 42.6–.30	27.66N	111.53W	19–1	5.1W,4.5s		
NEIC	V	24 19 01 42.6–.43	27.59N	111.56W	10	5.0,4.7b		
MEX	V	24 19 01 43.1–.56	27.68N	111.67W	12–6	5.0,4.7b		
IDC	V	24 19 01 45.2–1.1	28.00N	111.26W	0	4.5,4.5s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=1.7km az=21.5.
ECX Error ellipse: s-maj=1.4km s-min=2.0km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c68; s108,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.32±.14 $M_{\theta\theta}$-5.31±.14; $M_{\phi\phi}$5.63±.15; $M_{r\theta}$-1.12±.28; $M_{\theta\phi}$-1.20±.12; $M_{\phi r}$0.10±.27; Best double couple: NP1:ϕ_s129.00000°,δ83.00000° ,λ-170.00000°. NP2:ϕ_s38.00000°,δ80.00000°,λ-7.00000°. Principal axes: T 5.7680,Plg2.0000°,Azm264.0000°; N -0.0970,Plg78.0000°,Azm164.0000° ; P -5.6680,Plg12.0000°,Azm354.0000° M_o5.71800×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=209.0. Felt [III] at Guaymas, Sonora. Also felt at Hermosillo.
MEX Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=10.9km az=31.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 20 11 55.8–1.5**	**38.26N–.05**	**142.03E–.10**	**56–11**	**4.1b**	**38**	**1-146**
NIED	V	24 20 11 00	38.30N	141.90E	59	3.8W		**¶17204401**
ISCJB	V	24 20 11 55.0–.89	38.27N–.04	142.00E–.09	68–6	3.9b		
JMA	V	24 20 11 56.8–.10	38.28N	141.88E	62–1	3.8		
IDC	V	24 20 11 56.3–2.4	38.35N	142.22E	69–20	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ45.00000°,λ64.00000°. NP2:ϕ_s211.00000°,δ50.00000°,λ113.00000°. M_o4.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=5.4km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=11.9km az=108.0.

(227) Eastern Honshu

JMA	**V**	**24 20 35 13.4**	**37.11N**	**140.83E**	**7–1**	**3.0**	
							¶602919071

JMA Event type fe.

(227) Eastern Honshu

ISC	**V**	**24 20 36 13.3–.85**	**37.07N–.02**	**140.92E–.03**	**6–4**	**4.8b,4.2s**	**488**	**0-147**
NIED	V	24 20 36 00	37.10N	140.90E	5	4.7W,4.2s		**¶16539604**
IDC	V	24 20 36 12.7–.52	37.06N	140.83E	0	4.6,4.5		
ISCJB	V	24 20 36 12.7–.48	37.10N–.02	140.92E–.02	9–3	4.8b,4.2s		
JMA	V	24 20 36 13.4	37.11N	140.83E	7–1	5.0,4.2s		
NEIC	V	24 20 36 16.7–1.2	37.04N	140.84E	27–9	4.9b,4.2s		
MOS	V	24 20 36 17.0–1.2	37.07N	140.80E	41	5.0b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ28.00000°,λ-85.00000°. NP2:ϕ_s246.00000°,δ62.00000°,λ-92.00000°. M_o1.31000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=12.2km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=141.2.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s219.00000° ,δ52.00000°,λ-129.00000°. NP2:ϕ_s93.00000°,δ52.00000°,λ-51.00000°. Principal axes: T Plg0.0000°,Azm336.0000°; N Plg30.0000°,Azm246.0000°; P Plg60.0000°,Azm66.0000°
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=130.0. Recorded [5L JMA] in Fukushima.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=110.7.

(227) Eastern Honshu

ISC	**V**	**24 20 59 00.2–.88**	**37.09N–.04**	**140.75E–.06**	**8–7**	**3.5b**	**21**	**0-57**
IDC	V	24 20 58 58.4–2.1	37.07N	141.09E	0	3.6,3.5b		**¶17204403**
ISCJB	V	24 20 58 59.5–.98	37.10N–.03	140.94E–.07	7–4	3.4b,3.5b		
JMA	V	24 20 59 00.7	37.12N	140.83E	8–1	3.2,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=30.2km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=16.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s231.00000°,δ49.00000°,λ-100.00000°. NP2:ϕ_s66.00000°,δ42.00000°,λ-79.00000°. Principal axes: T Plg3.0000°,Azm328.0000°; N Plg7.0000°,Azm238.0000°; P Plg82.0000° ,Azm81.0000°

(228) Near east coast of eastern Honshu

ISC	**V**	**24 21 21 04.7–1.3**	**37.88N–.04**	**141.71E–.08**	**58–12**		**29**	**1-58**
IDC	V	24 21 20 54.5–2.3	38.30N	142.15E	0	3.8,3.7		**¶17204404**
NIED	V	24 21 21 00	37.90N	141.50E	35	3.5W,3.7		
ISCJB	V	24 21 21 04.8–.87	37.89N–.05	141.61E–.09	69–8	3.5b,3.7		
JMA	V	24 21 21 06.3	37.92N	141.53E	61–1	3.6,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=32.0km az=73.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ44.00000°,λ70.00000°. NP2:ϕ_s186.00000°,δ50.00000°,λ108.00000°. M_o2.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.1km az=24.2.
JMA Event type fe.

(381) Central Italy

ISC	**V**	**24 22 03 53.3–.73**	**43.84N–.02**	**11.96E–.01**	**9–4**	**4.2b**	**543**	**0-80**
ROM	V	24 22 03 51.9–.12	43.87N	12.03E	4–1	3.9L		**¶16546358**
GEN	V	24 22 03 51.3	43.88N	12.10E	3	3.8L		
NEIC	V	24 22 03 52.0	43.84N	12.03E	1	4.3b		
LDG	V	24 22 03 52.7–.14	43.88N	12.19E	5	4.1L		
IDC	V	24 22 03 52.5–.94	43.87N	12.16E	0	3.9,3.8		
PRU	V	24 22 03 52.6	43.88N	12.19E	0	4.3,3.8		
ISCJB	V	24 22 03 52.8–.21	43.84N–.01	11.93E–.02	20–2	4.1b,3.0s		
CSEM	V	24 22 03 53.2–.08	43.82N	11.95E	10	4.4b,4.0L		
MOS	V	24 22 03 53.6–1.2	43.97N	11.98E	17	4.4b,4.0L		
STR	V	24 22 04 17.3–.22	44.83N	9.83E	10	3.7L,4.0L		

ISC Event type fe.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=15.0.
NEIC Event type fe. Felt [III] at Cesena, Faenza and Forli. After ROM.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=11.0.
IDC Error ellipse: s-maj=15.4km s-min=13.8km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=28.0.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=81.1.
STR Event type ke.

(228) Near east coast of eastern Honshu

ISC	**V**	**24 22 05 16.2–2.0**	**39.18N–.05**	**142.39E–.09**	**26–13**	**3.6b**	**27**	**1-59**

NIED V 24 22 05 00 39.20N 142.40E 32 3.5W ¶17204411
ISCJB V 24 22 05 14.3–1.2 39.16N–.04 142.49E–.07 25–7 3.6b,2.8s
JMA V 24 22 05 16.2–.10 39.18N 142.39E 30–1 3.9,2.8s
IDC V 24 22 05 18.3–3.0 39.18N 142.50E 50–27 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ32.00000°,λ-144.00000°. NP2:ϕ_s190.00000°,δ72.00000°,λ-64.00000°. $M_0$2.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.2km az=13.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.4km s-min=16.4km az=108.0.

(228) Near east coast of eastern Honshu

ISC V 24 22 37 53.1–.49 37.36N–.04 141.64E–.06 41–4 4.1b,3.4s 82 1-146
NIED V 24 22 37 00 37.40N 141.50E 44 4.2W,3.4s ¶16539615
ISCJB V 24 22 37 51.3–.61 37.36N–.03 141.64E–.06 41–5 4.2b,3.3s
JMA V 24 22 37 53.2–.10 37.44N 141.51E 42–2 4.3,3.3s
IDC V 24 22 37 54.0–.47 37.38N 141.38E 42–3 4.1,4.0
NEIC V 24 22 37 53.3–.78 37.40N 141.59E 38–7 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ54.00000°,λ-42.00000°. NP2:ϕ_s297.00000°,δ58.00000°,λ-135.00000°. $M_0$2.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.0km az=12.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=9.2km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=6.9km az=111.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC V 24 23 03 08.1–.94 36.84N–.03 140.71E–.06 15–6 3.6b 33 0-83
NIED V 24 23 03 00 36.90N 140.70E 8 3.7W ¶17204412
IDC V 24 23 03 05.6–.99 36.86N 140.81E 0 3.8,3.8
ISCJB V 24 23 03 07.0–.70 36.82N–.03 140.87E–.06 21–4 3.6b,3.8
JMA V 24 23 03 08.6 36.85N 140.70E 9–1 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ33.00000°,λ-100.00000°. NP2:ϕ_s158.00000°,δ57.00000°,λ-84.00000°. $M_0$4.15000×10^{14}
IDC Error ellipse: s-maj=24.5km s-min=18.9km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.5km az=23.6.
JMA Event type fe.

(274) Southern Sumatera

ISC V 24 23 29 34.5–.35 4.31S–.04 102.13E–.04 49–2 4.9b,3.6s 688 1-161
MOS V 24 23 29 32.6–1.1 4.06S 102.37E 43 5.2b,3.6s ¶16539619
DJA V 24 23 29 34.7–.40 4S–2.0 102E–2.0 32–4 5.5b,5.3
IDC V 24 23 29 34.2–.42 4.11S 102.35E 44–3 4.8,4.6
KLM V 24 23 29 35.2 4.51S 101.88E 75 6.2s,5.2L
NEIC V 24 23 29 35.2–.41 4.18S 102.27E 54–3 5.0b,5.2L
ISCJB V 24 23 29 35.4–.42 4.21S–.03 102.27E–.03 70–3 4.8b,5.2L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Kapahiang. Also felt at Bengkulu.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC V 25 00 19 14.4–.56 35.86N–.04 140.20E–.04 59–4 4.7b,3.5s 339 0-151
NIED V 25 00 19 00 35.90N 140.20E 65 4.6W,3.5s ¶16543233
MOS V 25 00 19 10.1–.86 35.84N 140.02E 33 5.0b,3.5s
JMA V 25 00 19 15.8–.10 35.92N 140.14E 62–1 4.5,3.5s
ISCJB V 25 00 19 15.1–.31 35.83N–.02 140.06E–.03 74–2 4.6b,3.5s
IDC V 25 00 19 16.7–1.6 35.84N 140.03E 79–14 4.5,4.3
NEIC V 25 00 19 17.1–.62 35.87N 139.93E 77–5 4.6b,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ105.00000°. NP2:ϕ_s4.00000°,δ67.00000°,λ84.00000°. $M_0$9.60000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=5.3km az=108.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s7.00000°,δ73.00000°,λ89.00000°. NP2: ϕ_s190.00000°,δ17.00000°,λ93.00000°. Principal axes: T Plg62.0000°,Azm276.0000° ; N Plg1.0000°,Azm8.0000°; P Plg28.0000°,Azm98.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.8km az=179.3.
IDC Error ellipse: s-maj=14.2km s-min=11.0km az=81.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.8km az=120.0. Felt [III] at Tokyo. Recorded [3 JMA] in Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC V 25 01 04 05.4–.64 38.28N–.05 142.23E–.07 35 3.9b 40 1-146
NIED V 25 01 04 00 38.30N 142.20E 41 3.9W ¶17204421
ISCJB V 25 01 04 03.6–.54 38.34N–.04 142.35E–.06 35 3.8b
JMA V 25 01 04 05.2–.10 38.35N 142.20E 38–1 4.1
IDC V 25 01 04 09.8–2.5 38.29N 142.12E 75–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ35.00000°,λ-72.00000°. NP2:ϕ_s328.00000°,δ57.00000°,λ-102.00000°. $M_0$6.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.4km az=32.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=15.8km az=89.0.

(228) Near east coast of eastern Honshu

ISC V 25 03 23 48.4–1.9 39.07N–.04 142.33E–.08 11–10 3.8b 28 1-73
NIED V 25 03 23 00 39.10N 142.30E 38 3.6W ¶17204425
ISCJB V 25 03 23 48.6–1.5 39.08N–.04 142.40E–.10 27–8 3.7b
JMA V 25 03 23 49.9–.10 39.10N 142.33E 33–1 3.6
IDC V 25 03 23 54.4–2.9 39.04N 142.24E 67–26 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ24.00000°. NP2:ϕ_s36.00000°,δ81.00000°,λ112.00000°. $M_0$3.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=6.2km az=15.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.7km s-min=20.7km az=98.0.

(378) Pyrenees

ISC V 25 04 06 53.9–.93 42.91N–.02 1.44W–.02 12–7 208 0-6
CSEM V 25 04 06 53.3–.13 42.91N 1.44W 5 3.0L ¶16539631
MDD V 25 04 06 54.2–.19 42.86N 1.44W 1–3 2.6
STR V 25 04 06 54.6–.16 42.92N 1.44W 6 2.9L
LDG V 25 04 06 54.6–.11 42.89N 1.44W 2 3.1L,2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=168.0.
MDD Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=136.0. EMS: II INTENSIDAD MAXIMA. PRXIMO.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=6.0.

(228) Near east coast of eastern Honshu

ISC V 25 04 07 26.2–1.1 35.74N–.05 140.81E–.09 50–8 3.7b 20 0-75
IDC V 25 04 07 18.4–1.6 35.85N 141.23E 0 3.9,3.8 ¶17204427
ISCJB V 25 04 07 25.1–.84 35.73N–.05 140.8E–.10 57–6 3.7b,2.6s
JMA V 25 04 07 26.5–.10 35.75N 140.67E 48–1 3.3,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=19.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=7.2km az=160.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ77.00000°,λ82.00000°. NP2: ϕ_s222.00000°,δ15.00000°,λ123.00000°. Principal axes: T Plg57.0000°,Azm267.0000° ; N Plg8.0000°,Azm10.0000°; P Plg32.0000°,Azm105.0000°

(228) Near east coast of eastern Honshu

JMA V 25 04 11 41.6–.20 38.13N 142.02E 21–1 3.9
NIED V 25 04 11 00 38.10N 142.00E 68 3.8W ¶600622723
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ72.00000°,λ1.00000°. NP2:ϕ_s109.00000°,δ89.00000°,λ162.00000°. $M_0$6.31000×10^{14}

(249) Luzon

MAN V 25 04 27 40 13.50N 122.10E 17 3.7b,2.4L ¶601669236
MAN Event type fe. INTENSITY II - STA CRUZ MARINDUQUE.

(228) Near east coast of eastern Honshu

ISC V 25 05 49 30.9–1.1 36.90N–.04 140.74E–.06 13–7 3.5b 19 0-57
NIED V 25 05 49 00 36.90N 140.70E 5 3.5W ¶17204431
IDC V 25 05 49 28.5–1.8 36.92N 140.83E 0 3.7,3.6
ISCJB V 25 05 49 30.1–.92 36.89N–.05 140.84E–.07 20–6 3.4b,3.6
JMA V 25 05 49 31.3 36.91N 140.68E 7–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ28.00000°,λ-98.00000°. NP2:ϕ_s150.00000°,δ62.00000°,λ-86.00000°. $M_0$1.72000×10^{14}
IDC Error ellipse: s-maj=38.0km s-min=22.8km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.5km az=30.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s321.00000°,δ56.00000°,λ-102.00000°. NP2:ϕ_s161.00000°,δ36.00000°,λ-73.00000°. Principal axes: T Plg10.0000°,Azm59.0000°; N Plg10.0000°,Azm327.0000°; P Plg76.0000° ,Azm194.0000°

(228) Near east coast of eastern Honshu

ISC V 25 08 08 47.5–1.2 35.74N–.05 140.75E–.08 48–9 16 0-59
IDC V 25 08 08 36.2–6.4 36.26N 141.74E 0 3.7,3.4 ¶600622803
ISCJB V 25 08 08 46.6–.81 35.74N–.06 140.77E–.09 57–6 3.4b,2.5s
JMA V 25 08 08 47.7–.10 35.73N 140.66E 46–1 2.9,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=143.8km s-min=38.8km az=36.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.8km az=148.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA V 25 08 26 55.1–.10 37.44N 141.52E 40–2 3.6 ¶16560142
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC V 25 08 27 52.0–1.2 38.10N–.05 141.74E–.08 57–10 3.9b 45 0-146
NIED V 25 08 27 00 38.10N 141.60E 62 4.0W ¶600622814
ISCJB V 25 08 27 51.9–.61 38.13N–.04 141.63E–.08 68–5 3.8b
JMA V 25 08 27 52.8 38.14N 141.60E 60–1 4.1
IDC V 25 08 27 54.1–2.0 38.11N 141.54E 73–19 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ45.00000°,λ102.00000°. NP2:ϕ_s193.00000°,δ46.00000°,λ78.00000°. $M_0$9.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.2km az=22.7.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=13.2km az=104.0.

(220) Northwest of Kuril Islands

ISC V 25 10 02 52.4–.27 49.10N–.03 147.61E–.03 568–2 5.1b 1952 4-152
NIED V 25 10 02 00 48.70N 148.40E 620 5.3W ¶602608607
SKHL V 25 10 02 49.6–1.2 49.12N 148.34E 557–5 5.9s,5.9
JMA V 25 10 02 49.3–.30 48.69N 148.40E 585 5.4,5.9
ISCJB V 25 10 02 51.1–.15 49.18N–.02 147.53E–.02 559–2 5.1b,5.9
MOS V 25 10 02 51.3–.78 49.14N 147.55E 563 5.3b,5.9
BJI V 25 10 02 51.2 49.09N 147.49E 557 5.2b,4.8b
GCMT V 25 10 02 52.4–.30 49.18N 147.52E 569–2 5.3W,4.8b
NEIC V 25 10 02 52.4–.21 49.16N 147.48E 562–2 5.1b,4.8b
IDC V 25 10 02 52.9–.42 49.14N 147.52E 570–4 5.6,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ45.00000°,λ-125.00000°. NP2:ϕ_s167.00000°,δ55.00000°,λ-60.00000°. $M_0$8.84000×10^{16}
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.1.
MOS Error ellipse: s-maj=6.1km s-min=3.8km az=97.1.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s78,c118;Duration: 1s^1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.47±.03 $M_{\theta\theta}$0.58±.04; $M_{\phi\phi}$-0.11±.04; $M_{r\theta}$-0.76±.04; $M_{\theta\phi}$-0.65±.04; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s87.00000°,δ75.00000°,λ-127.00000°. NP2:ϕ_s338.00000° ,δ40.00000°,λ-24.00000°. Principal axes: T 1.1860,Plg21.0000°,Azm204.0000° ; N -0.0890,Plg36.0000°,Azm98.0000°; P -1.0970,Plg47.0000°,Azm318.0000° $M_0$1.14100×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.6km az=150.0.
IDC Error ellipse: s-maj=5.8km s-min=4.8km az=151.0.

(127) Chile-Argentina border region

ISC V 25 10 58 27.0–.65 33.68S–.05 70.10W–.07 120–5 3.9b 51 0-164
ISCJB V 25 10 58 26.0–.34 33.72S–.04 70.08W–.07 122–3 4.4b ¶16710896
SJA V 25 10 58 26.2–.98 33.69S 70.09W 111–31 3.8
IDC V 25 10 58 27.4–2.4 33.69S 69.94W 119–22 4.1,3.9
NEIC V 25 10 58 27.0 33.66S 70.24W 121 4.6b,3.9
GUC V 25 10 58 27.2–.45 33.66S 70.25W 121–2 4.6L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.3km az=15.5.
SJA Error ellipse: s-maj=18.2km s-min=17.8km az=-1.0.
IDC Error ellipse: s-maj=26.4km s-min=16.1km az=90.0.
NEIC Event type fe. Felt [II] at Rancagua, San Bernardo, Santiago and Tiltil. After GUC.
GUC Error ellipse: s-maj=3.8km s-min=6.6km az=-1.0.

(228) Near east coast of eastern Honshu

ISC V 25 14 20 52.9–.77 35.48N–.05 140.91E–.07 33 3.6b,3.4s 26 0-75
NIED V 25 14 20 00 35.50N 140.90E 20 4.0W,3.4s ¶17204453
IDC V 25 14 20 48.4–.82 35.41N 141.06E 0 3.8,3.7
ISCJB V 25 14 20 50.9–.56 35.47N–.04 140.98E–.07 33 3.7b,3.3s
JMA V 25 14 20 51.2–.10 35.50N 140.93E 24–1 3.9,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ33.00000°,λ-179.00000°. NP2:ϕ_s72.00000°,δ89.00000°,λ-57.00000°. $M_0$1.19000×10^{15}
IDC Error ellipse: s-maj=22.8km s-min=16.6km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.3km az=13.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC V 25 16 58 30.3–1.2 36.79N–.03 140.52E–.04 4–10 3.7b 21 0-76
NIED V 25 16 58 00 36.80N 140.50E 8 3.6W ¶17204462
IDC V 25 16 58 27.9–1.3 36.27N 140.61E 0 4.0,3.7b
ISCJB V 25 16 58 29.8–.59 36.78N–.03 140.58E–.05 11–4 3.7b,2.7s
JMA V 25 16 58 30.2 36.79N 140.54E 8–1 3.6,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ46.00000°,λ-125.00000°. NP2:ϕ_s171.00000°,δ54.00000°,λ-60.00000°. $M_0$2.79000×10^{14}
IDC Error ellipse: s-maj=34.9km s-min=23.8km az=14.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.3km az=26.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s327.00000°,δ53.00000°,λ-106.00000°. NP2:ϕ_s174.00000°,δ40.00000°,λ-69.00000°. Principal axes: T Plg7.0000°,Azm69.0000°; N Plg13.0000°,Azm337.0000°; P Plg75.0000° ,Azm187.0000°

(228) Near east coast of eastern Honshu

ISC V 25 17 27 35.3–.59 39.77N–.04 142.39E–.06 39–3 4.2b 80 0-75
NIED V 25 17 27 00 39.80N 142.30E 41 4.0W ¶16710918
ISCJB V 25 17 27 34.4–.68 39.77N–.03 142.45E–.07 48–4 4.1b,3.2s
JMA V 25 17 27 35.7 39.75N 142.35E 41–1 3.8,3.2s
MOS V 25 17 27 35.5–1.0 39.86N 142.43E 56 4.4b,3.2s
NEIC V 25 17 27 37.4–.74 39.76N 142.52E 63–6 4.6b,3.2s
IDC V 25 17 27 37.3–2.4 39.76N 142.48E 61–20 4.1,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ68.00000°,λ97.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.1km az=16.7.
JMA Event type fe.
MOS Error ellipse: s-maj=10.6km s-min=7.6km az=93.2.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=5.7km az=113.0.
IDC Error ellipse: s-maj=20.8km s-min=13.3km az=95.0.

(229) Off east coast of Honshu

ISC V 25 20 29 29.2–.69 39.70N–.04 143.49E–.04 23–4 4.9b,4.5s 323 1-146
NIED V 25 20 29 00 39.60N 143.70E 17 4.7W,4.5s ¶16545200
IDC V 25 20 29 25.9–.55 39.62N 143.46E 0 4.7,4.6
ISCJB V 25 20 29 25.7–.00 39.67N–.03 143.46E–.04 7–6 4.8b,4.4s
JMA V 25 20 29 26.3–.20 39.68N 143.67E 30 4.8,4.4s
NEIC V 25 20 29 28.9–2.4 39.63N 143.39E 18–15 4.8b,4.4s
MOS V 25 20 29 31.0–.93 39.88N 143.23E 34 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ25.00000°,λ61.00000°. NP2:ϕ_s33.00000°,δ68.00000°,λ103.00000°. $M_0$1.20000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=38.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.6km az=132.0. Recorded [1 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=108.6.
(368) Southern Greece

ISC	**V**	**25 23 27 50.3–.58**	**37.91N–.01**	**21.11E–.01**	**14–3**	**4.9b,4.2s**	**1339**	**0-132**
HLW	V	25 23 27 44.2	38.32N	21.37E	33–22	4.7L,4.2s		**¶602385986**
IDC	V	25 23 27 47.9–.50	38.00N	21.22E	0	4.6,4.6b		
ISCJB	V	25 23 27 49.6–.23	37.91N–.01	21.06E–.01	20–1	4.8b,4.1s		
NEIC	V	25 23 27 49.4	37.94N	21.12E	10	5.0L,4.9L		
PDG	V	25 23 27 49.0–.62	37.96N	21.08E	6–1	4.8L,4.9L		
CSEM	V	25 23 27 49.5–.09	37.93N	21.08E	5	4.8b,4.9L		
ATH	V	25 23 27 49.4	37.94N	21.12E	13–0	4.9L,4.9L		
THE	V	25 23 27 50.1	37.95N	21.12E	0–1	5.1L,4.9L		
MOS	V	25 23 27 50.4–1.4	37.94N	21.09E	25	5.1b,4.2s		

ISC Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=9.6km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=30.4.
NEIC Event type fe. Felt [IV] at Planos and Patrai; [III] at Zakynthos. Also felt at Agrinion, Bokhali, Kalamakion, Mouzakion and Pyrgos. After ATH.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=29.0.
ATH Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=206.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=270.0.
MOS Error ellipse: s-maj=4.8km s-min=2.8km az=79.1.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 01 06 20.1–.82**	**35.68N–.06**	**141.74E–.07**	**25**	**3.8b**	**25**	**1-93**
NIED	V	26 01 06 00	35.90N	141.80E	8	3.8W		**¶17204475**
IDC	V	26 01 06 15.9–.86	35.63N	141.75E	0	3.9,3.8		
ISCJB	V	26 01 06 17.9–.64	35.67N–.05	141.82E–.06	25	3.8b,2.5s		
JMA	V	26 01 06 18.1–.20	35.79N	141.83E	32–3	4.1,2.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ45.00000°,λ-65.00000°. NP2:ϕ_s344.00000°,δ50.00000°,λ-113.00000°. $M_0$5.38000×10^{14}
IDC Error ellipse: s-maj=22.4km s-min=17.0km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.9km az=141.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu

JMA	**V**	**26 01 37 09.0–.10**	**37.24N**	**141.04E**	**30–1**	**3.5**	
NIED	V	26 01 37 00	37.20N	141.00E	62	3.6W	**¶600623307**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ41.00000°,λ0.00000°. NP2:ϕ_s41.00000°,δ90.00000°,λ131.00000°. $M_0$2.86000×10^{14}
(228) Near east coast of eastern Honshu

ISC	**V**	**26 01 43 55.8–2.3**	**38.85N–.06**	**142.3E–.10**	**25–14**	**3.4b**	**20**	**1-62**
NIED	V	26 01 43 00	38.80N	142.20E	80	3.7W		**¶17204477**
IDC	V	26 01 43 48.4–1.3	38.98N	143.12E	0	3.5,3.3		
JMA	V	26 01 43 58.6–.10	38.84N	142.16E	42–1	3.5,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ22.00000°,λ14.00000°. NP2:ϕ_s98.00000°,δ85.00000°,λ112.00000°. $M_0$4.61000×10^{14}
IDC Error ellipse: s-maj=32.6km s-min=27.9km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

JMA	**V**	**26 03 22 51.2**	**36.70N**	**140.62E**	**7–1**	**2.8**	
							¶17204482

JMA Event type fe.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 03 23 35.8–.85**	**35.49N–.05**	**140.78E–.07**	**35**	**3.4b**	**20**	**0-65**
ISCJB	V	26 03 23 33.9–.56	35.46N–.04	140.80E–.07	35	3.4b		**¶600623339**
JMA	V	26 03 23 34.3–.10	35.53N	140.72E	26–1	3.1		
IDC	V	26 03 23 36.8–4.0	35.34N	140.71E	36–35	3.6,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.4km az=4.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.9km s-min=17.4km az=87.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 06 57 34.4–.87**	**39.61N–.04**	**142.11E–.08**	**49–7**	**4.2b,3.1s**	**65**	**0-145**
NIED	V	26 06 57 00	39.60N	142.10E	53	4.1W,3.1s		**¶16560147**
ISCJB	V	26 06 57 33.6–.49	39.62N–.03	142.10E–.07	58–3	4.2b,3.0s		
JMA	V	26 06 57 34.5–.10	39.63N	142.10E	48–1	4.1,3.0s		
NEIC	V	26 06 57 36.1–.63	39.63N	142.11E	68–6	4.5b,3.0s		
IDC	V	26 06 57 37.2–2.1	39.55N	142.03E	78–19	4.2,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ90.00000°. NP2:ϕ_s17.00000°,δ69.00000°,λ90.00000°. $M_0$1.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.7km az=16.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=5.4km az=113.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=16.8km s-min=13.1km az=95.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 08 24 02.7–1.7**	**35.78N–.06**	**141.0E–.10**	**12–8**	**3.6b**	**13**	**0-56**
NIED	V	26 08 24 00	35.70N	141.00E	5	3.6W		**¶17204489**
ISCJB	V	26 08 24 01.4–1.6	35.76N–.07	141.11E–.10	12–7	3.6b		
IDC	V	26 08 24 03.3–1.4	35.55N	140.71E	0	3.7,3.5		
JMA	V	26 08 24 03.2–.20	35.75N	140.99E	14–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ41.00000°,λ-130.00000°. NP2:ϕ_s13.00000°,δ60.00000°,λ-61.00000°. $M_0$2.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.7km s-min=9.0km az=141.9.
IDC Error ellipse: s-maj=29.7km s-min=22.8km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(286) Flores region

ISC	**V**	**26 08 57 33.1–.44**	**8.35S–.03**	**121.72E–.03**	**23–2**	**5.3b,4.5s**	**501**	**1-171**
BJI	V	26 08 57 30.3	8.20S	121.70E	15	5.5b,5.2b		**¶16545962**
ISCJB	V	26 08 57 33.9–.37	8.33S–.02	121.80E–.02	44–3	5.2b,4.5s		
MOS	V	26 08 57 33.6–1.2	8.19S	121.57E	33	5.4b,4.1s		
GCMT	V	26 08 57 34.3–.10	8.38S	121.70E	12	5.3W,4.1s		
NEIC	V	26 08 57 34.3–1.3	8.30S	121.67E	30–9	5.3b,4.1s		
KLM	V	26 08 57 35.6	8.42S	121.94E	51	6.2s,5.4b		
DJA	V	26 08 57 35.2–.30	8S–2.0	122E–1.0	19–3	5.6b,5.4		
IDC	V	26 08 57 36.8–2.8	8.25S	121.69E	52–24	5.0,4.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=139.3.
MOS Error ellipse: s-maj=12.4km s-min=6.6km az=105.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c149; s121,c199; Duration: 1±1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.05±.01 $M_{\theta\theta}$-0.15±.01; $M_{\phi\phi}$-0.89±.01; $M_{r\theta}$-0.26±.03; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$0.01±.03; Best double couple: NP1:ϕ_s206.00000°,δ48.00000°,λ106.00000°. NP2:ϕ_s3.00000°,δ45.00000°,λ73.00000°. Principal axes: T 1.1070,Plg78.0000°,Azm188.0000°; N -0.1560,Plg12.0000°,Azm15.0000°; P -0.9530,Plg2.0000°,Azm285.0000° $M_0$1.03000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=56.0. Felt [IV] at Ende and [III] at Maumere and Ruteng.
IDC Error ellipse: s-maj=16.0km s-min=10.3km az=57.0.
(227) Eastern Honshu

ISC	**V**	**26 10 15 53.5–1.4**	**37.05N–.06**	**140.85E–.06**	**4–8**	**3.8b**	**25**	**0-74**
NIED	V	26 10 15 00	37.10N	140.80E	5	3.7W		**¶602920532**
ISCJB	V	26 10 15 52.7–.89	37.10N–.03	140.96E–.05	6–4	3.7b		
JMA	V	26 10 15 54.2	37.11N	140.84E	7	3.7		
IDC	V	26 10 16 02.0–3.6	37.01N	140.78E	70–29	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ23.00000°,λ-53.00000°. NP2:ϕ_s242.00000°,δ72.00000°,λ-104.00000°. $M_0$3.66000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.4km az=23.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s234.00000°,δ61.00000°,λ-98.00000°. NP2:ϕ_s70.00000°,δ30.00000°,λ-76.00000°. Principal axes: T Plg15.0000°,Azm330.0000°; N Plg7.0000°,Azm238.0000°; P Plg73.0000°,Azm125.0000°
IDC Error ellipse: s-maj=28.4km s-min=18.8km az=89.0.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 10 56 38.5–.50**	**36.71N–.03**	**140.63E–.03**	**26–3**	**4.8b,3.8s**	**375**	**0-147**
NIED	V	26 10 56 00	36.70N	140.60E	5	4.6W,3.8s		**¶16546021**
IDC	V	26 10 56 34.6–.45	36.69N	140.46E	0	4.7,4.6		
ISCJB	V	26 10 56 36.8–.48	36.79N–.02	140.45E–.03	18–3	4.7b,3.8s		
JMA	V	26 10 56 36.2	36.72N	140.62E	6–1	4.8,3.8s		
MOS	V	26 10 56 41.2–.84	37.07N	140.36E	41	5.0b,3.8s		
NEIC	V	26 10 56 41.5–.46	36.79N	140.37E	42–4	4.8b,3.8s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ34.00000°,λ-75.00000°. NP2:ϕ_s144.00000°,δ58.00000°,λ-100.00000°. $M_0$9.25000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=11.0km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=139.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s139.00000°,δ50.00000°,λ-101.00000°. NP2:ϕ_s336.00000°,δ42.00000°,λ-78.00000°. Principal axes: T Plg4.0000°,Azm237.0000°; N Plg8.0000°,Azm146.0000°; P Plg81.0000°,Azm353.0000°
MOS Error ellipse: s-maj=7.2km s-min=4.6km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=143.0. Felt at Karasuyama. Recorded [4 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 11 12 49.8–1.0**	**36.75N–.03**	**140.50E–.04**	**7–7**	**4.1b**	**49**	**0-147**
NIED	V	26 11 12 00	36.70N	140.70E	5	3.9W		**¶16560148**
IDC	V	26 11 12 48.9–.55	36.74N	140.53E	0	4.2,4.1		
ISCJB	V	26 11 12 49.5–.70	36.71N–.03	140.73E–.05	16–4	4.0b,4.1		
JMA	V	26 11 12 50.4	36.72N	140.63E	6–1	4.0,4.1		
NEIC	V	26 11 12 54.2–.32	36.77N	140.53E	35	4.3b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ25.00000°,λ-61.00000°. NP2:ϕ_s133.00000°,δ68.00000°,λ-103.00000°. $M_0$9.07000×10^{14}
IDC Error ellipse: s-maj=16.0km s-min=13.1km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.2km az=23.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s136.00000°,δ59.00000°,λ-106.00000°. NP2:ϕ_s345.00000°,δ34.00000°,λ-65.00000°. Principal axes: T Plg13.0000°,Azm237.0000°; N Plg14.0000°,Azm144.0000°; P Plg71.0000°,Azm9.0000°
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.6km az=136.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu

JMA	**V**	**26 11 19 13.6–.20**	**35.74N**	**140.94E**	**12–1**	**3.0**	
							¶600623490

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(368) Southern Greece

ISC	**V**	**26 12 56 18.8–.58**	**37.92N–.01**	**21.09E–.02**	**10–3**	**4.8b,4.0s**	**1079**	**0-122**
IDC	V	26 12 56 16.6–.49	37.95N	21.13E	0	4.5,4.5b		**¶16546030**
PDG	V	26 12 56 18.7–.26	38.05N	21.15E	10–1	4.8,4.7L		
THE	V	26 12 56 18.6	37.93N	21.16E	0–1	4.7L,4.7L		
ISCJB	V	26 12 56 18.1–.26	37.94N–.01	21.04E–.01	15–2	4.7b,3.9s		
NEIC	V	26 12 56 18.4	37.92N	21.16E	15	4.8b,4.7L		
CSEM	V	26 12 56 18.2–.08	37.93N	21.11E	5	4.7b,4.3W		
ATH	V	26 12 56 18.3	37.94N	21.16E	17–0	4.5L,4.3W		
MOS	V	26 12 56 20.5–1.5	37.95N	21.04E	34	4.9b,4.3W		
HLW	V	26 12 56 21.6	38.08N	22.01E	33–20	4.1L,4.3W		

ISC Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=9.5km az=33.0.
PDG Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=181.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=31.6.
NEIC Event type fe. Felt [III] at Zakynthos. Also felt at Naxos, Patrai and Pelopion. After ATH.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=28.0.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=229.0.
MOS Error ellipse: s-maj=5.3km s-min=3.1km az=78.2.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 15 04 39.8–1.4**	**39.04N–.05**	**142.32E–.08**	**43–11**	**4.3b,3.3s**	**87**	**1-76**
NIED	V	26 15 04 00	39.10N	142.50E	35	4.0W,3.3s		**¶16710985**
ISCJB	V	26 15 04 38.4–.68	39.06N–.03	142.36E–.06	48–4	4.2b,3.4s		
JMA	V	26 15 04 38.3–.10	39.08N	142.38E	34–1	4.2,3.4s		
NEIC	V	26 15 04 41.1–.69	39.03N	142.32E	58–6	4.6b,3.4s		
IDC	V	26 15 04 41.9–2.3	39.05N	142.28E	61–20	4.0,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ15.00000°,λ-146.00000°. NP2:ϕ_s196.00000°,δ82.00000°,λ-77.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.5km az=23.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=5.1km az=121.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=18.5km s-min=12.0km az=110.0.
(162) South Island

WEL	**V**	**26 16 36 09.5–.09**	**43.53S**	**172.70E**	**5**	**3.5L**	
							¶601006160

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(228) Near east coast of eastern Honshu

ISC	**V**	**26 17 19 02.8–.70**	**36.52N–.04**	**141.43E–.05**	**26–4**	**4.2b,3.4s**	**118**	**1-147**
NIED	V	26 17 19 00	36.60N	141.40E	38	4.3W,3.4s		**¶16560150**
ISCJB	V	26 17 19 00.7–.84	36.53N–.03	141.51E–.04	25–5	4.2b,3.5s		
MOS	V	26 17 19 02.0–1.1	36.58N	141.49E	31	4.4b,3.5s		
NEIC	V	26 17 19 03.0–1.6	36.53N	141.39E	26–11	4.6b,3.5s		
IDC	V	26 17 19 04.2–3.4	36.53N	141.29E	33–26	4.2,4.1		
JMA	V	26 17 19 04.4–.10	36.56N	141.25E	46–2	4.3,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ10.00000°,λ156.00000°. NP2:ϕ_s283.00000°,δ86.00000°,λ81.00000°. $M_0$3.74000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=19.7.
MOS Error ellipse: s-maj=8.7km s-min=6.0km az=99.2.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=113.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.4km s-min=10.0km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

JMA	**V**	**26 17 44 22.1–.10**	**36.43N**	**141.04E**	**46–1**	**3.6**		
NIED	V	26 17 44 00	36.40N	141.00E	32	3.4W		**¶600623763**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ44.00000°,λ114.00000°. NP2:ϕ_s58.00000°,δ50.00000°,λ68.00000°. $M_0$1.47000×10^{14}
(228) Near east coast of eastern Honshu

ISC	**V**	**26 19 17 00.5–1.7**	**36.40N–.07**	**140.94E–.08**	**30–9**	**3.4b**	**23**	**0-60**
ISCJB	V	26 19 16 59.6–1.1	36.36N–.05	140.99E–.07	31–5	3.4b		**¶600623843**
JMA	V	26 19 17 01.2–.10	36.39N	140.89E	35–1	3.4		
IDC	V	26 19 17 07.5–1.2	35.09N	137.51E	0	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=7.0km az=27.0.
JMA Event type fe.
IDC Error ellipse: s-maj=32.5km s-min=19.2km az=93.0.
(227) Eastern Honshu

ISC	**V**	**26 19 50 41.5–1.1**	**37.09N–.03**	**140.58E–.05**	**6–9**	**3.5b**	**25**	**0-61**
NIED	V	26 19 50 00	37.10N	140.60E	5	3.6W		**¶17204529**
IDC	V	26 19 50 40.4–1.1	37.01N	140.64E	0	3.6,3.5		
ISCJB	V	26 19 50 41.3–.52	37.08N–.03	140.73E–.05	19–4	3.5b,3.5		
JMA	V	26 19 50 41.9	37.08N	140.63E	8–1	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ35.00000°,λ-95.00000°. NP2:ϕ_s131.00000°,δ55.00000°,λ-87.00000°. $M_0$2.84000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=20.6km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=29.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ67.00000°,λ-100.00000°. NP2:ϕ_s155.00000°,δ26.00000°,λ-67.00000°. Principal axes: T Plg21.0000°,Azm48.0000°; N Plg10.0000°,Azm314.0000°; P Plg67.0000°,Azm201.0000°
(228) Near east coast of eastern Honshu

ISC	**V**	**26 22 09 15.9–1.1**	**35.89N–.09**	**140.98E–.10**	**31**	**3.6b**	**15**	**0-70**
IDC	V	26 22 09 11.9–1.5	35.78N	141.02E	0	3.7,3.6b		**¶17204533**
ISCJB	V	26 22 09 13.9–.94	35.88N–.07	141.11E–.09	31	3.6b,3.6b		

JMA V 26 22 09 14.5–.10 35.91N 141.06E 29–2 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=47.8km s-min=21.2km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=8.3km az=42.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
JMA V 26 22 52 59.2–.10 39.13N 142.49E 31–1 3.7
NIED V 26 22 52 00 39.10N 142.50E 26 3.4W **¶600623975**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ11.00000°,λ-84.00000°. NP2:ϕ_s186.00000°,δ79.00000°,λ-91.00000°. $M_0$1.36000×10^{14}
(227) Eastern Honshu
ISC V 26 23 21 41.8–1.0 37.09N–.04 140.83E–.05 6–5 3.7b 30 0-90
NIED V 26 23 21 00 37.10N 140.80E 5 3.8W **¶600623995**
IDC V 26 23 21 39.3–1.5 36.99N 141.13E 0 3.8,3.8s
ISCJB V 26 23 21 40.9–.90 37.10N–.03 140.90E–.06 8–4 3.9s,3.8b
JMA V 26 23 21 41.6 37.11N 140.83E 8–1 3.5,3.8b
NEIC V 26 23 21 44.9–.95 36.98N 141.03E 35 4.3b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s93.00000°,δ26.00000°,λ-52.00000°. NP2:ϕ_s232.00000°,δ70.00000°,λ-107.00000°. $M_0$5.54000×10^{14}
IDC Error ellipse: s-maj=32.6km s-min=26.7km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.0km az=16.6.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=14.0km az=110.0.
(228) Near east coast of eastern Honshu
ISC V 26 23 34 46.3–1.0 37.06N–.04 141.28E–.05 19–3 4.0b 40 0-147
NIED V 26 23 34 00 37.10N 141.40E 5 3.8W **¶600624006**
IDC V 26 23 34 43.4–.74 37.06N 141.26E 0 4.0,3.9
ISCJB V 26 23 34 44.2–1.3 37.06N–.04 141.43E–.08 20–8 3.9b,3.1s
JMA V 26 23 34 44.9–.10 37.08N 141.37E 25–1 4.3,3.1s
NEIC V 26 23 34 50.0–.86 37.06N 141.18E 48–6 4.4b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ44.00000°,λ-94.00000°. NP2:ϕ_s212.00000°,δ46.00000°,λ-86.00000°. $M_0$5.90000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=15.6km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=14.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=127.0. Recorded [1 JMA] in Fukushima and Ibaraki.
(228) Near east coast of eastern Honshu
ISC V 27 01 37 55.7–1.1 35.28N–.04 140.89E–.05 32–8 4.3b,3.3s 79 0-148
NIED V 27 01 37 00 35.30N 140.90E 41 4.1W,3.3s **¶16560154**
ISCJB V 27 01 37 55.4–.47 35.27N–.03 140.88E–.06 46–3 4.2b,3.2s
JMA V 27 01 37 55.9–.10 35.34N 140.87E 41–2 3.8,3.2s
NEIC V 27 01 37 55.5–1.6 35.33N 140.85E 29–11 4.4b,3.2s
IDC V 27 01 37 57.2–1.3 35.23N 140.84E 44–11 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ22.00000°,λ-164.00000°. NP2:ϕ_s231.00000°,δ84.00000°,λ-69.00000°. $M_0$1.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.6km az=101.0. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=13.4km s-min=7.5km az=77.0.
(227) Eastern Honshu
ISC V 27 03 34 16.2–.89 37.09N–.03 140.83E–.04 13–5 4.5b,3.7s 154 0-152
NIED V 27 03 34 00 37.10N 140.90E 5 4.5W,3.7s **¶16551112**
ISCJB V 27 03 34 14.6–.71 37.08N–.03 140.91E–.04 12–4 4.4b,3.7s
IDC V 27 03 34 14.0–.60 37.09N 140.87E 0 4.3,4.2
JMA V 27 03 34 15.3 37.11N 140.83E 8–1 4.7,4.2
NEIC V 27 03 34 19.7–.59 37.04N 140.87E 38–5 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ28.00000°,λ-60.00000°. NP2:ϕ_s235.00000°,δ66.00000°,λ-105.00000°. $M_0$5.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=136.9.
IDC Error ellipse: s-maj=15.8km s-min=14.5km az=156.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s223.00000°,δ51.00000°,λ-101.00000°. NP2:ϕ_s60.00000°,δ41.00000°,λ-77.00000°. Principal axes: T Plg5.0000°,Azm321.0000°; N Plg9.0000°,Azm230.0000°; P Plg80.0000° ,Azm80.0000°
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.8km az=125.0. Recorded [4 JMA] in Fukushima.
(162) South Island
ISC V 27 03 42 50.7–.75 44.46S–.03 170.63E–.04 10 55 0-149
ISCJB V 27 03 42 50.2–.41 44.47S–.04 170.67E–.05 10 3.7b,2.5s **¶16549420**
IDC V 27 03 42 51.0–1.6 44.32S 170.23E 0 4.0,3.7
NEIC V 27 03 42 51.2 44.46S 170.66E 5 4.3L,3.7
WEL V 27 03 42 51.1–.10 44.46S 170.66E 5 4.3L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.5km az=137.2.
IDC Error ellipse: s-maj=45.1km s-min=10.7km az=144.0.
NEIC Event type fe. Felt in southern Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC V 27 04 44 03.6–.94 37.37N–.05 141.46E–.06 27–6 3.7b 30 0-146
NIED V 27 04 44 00 37.40N 141.50E 20 3.6W **¶17204544**
ISCJB V 27 04 44 01.5–1.2 37.34N–.04 141.55E–.08 24–7 3.7b
JMA V 27 04 44 03.2–.10 37.38N 141.46E 30–2 3.6
IDC V 27 04 44 04.0–.83 37.32N 141.44E 29–6 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ35.00000°,λ-37.00000°. NP2:ϕ_s360.00000°,δ70.00000°,λ-119.00000°. $M_0$3.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.1km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=19.6km az=84.0.
(228) Near east coast of eastern Honshu
ISC V 27 06 32 32.6–1.0 35.75N–.04 140.88E–.08 13–5 3.5b 16 0-65
NIED V 27 06 32 00 35.80N 141.00E 8 3.5W **¶600624269**
ISCJB V 27 06 32 31.8–1.2 35.79N–.05 141.01E–.08 9–7 3.5b
IDC V 27 06 32 31.4–1.2 35.45N 140.86E 0 3.7,3.5
JMA V 27 06 32 32.3–.10 35.78N 140.97E 11–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ52.00000°,λ-40.00000°. NP2:ϕ_s134.00000°,δ59.00000°,λ-134.00000°. $M_0$2.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.6km az=172.9.
IDC Error ellipse: s-maj=30.6km s-min=27.8km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC V 27 08 04 07.8–.80 37.07N–.03 140.66E–.05 15–5 4.0b 60 0-147
NIED V 27 08 04 00 37.10N 140.70E 11 3.9W **¶16549389**
ISCJB V 27 08 04 07.4–.40 37.07N–.02 140.73E–.04 23–2 4.1s,4.0b
JMA V 27 08 04 08.1 37.07N 140.65E 15–1 4.2,4.0b
NEIC V 27 08 04 11.6–.80 37.16N 140.66E 42–7 4.3b,4.0b
IDC V 27 08 04 11.6–2.1 37.11N 140.52E 41–19 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ45.00000°,λ21.00000°. NP2:ϕ_s83.00000°,δ75.00000°,λ133.00000°. $M_0$7.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=23.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s84.00000°,δ76.00000°,λ135.00000°. NP2:ϕ_s188.00000°,δ47.00000°,λ20.00000°. Principal axes: T Plg41.0000°,Azm36.0000°; N Plg44.0000°,Azm250.0000°; P Plg18.0000° ,Azm142.0000°
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.7km az=122.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.5km s-min=13.5km az=109.0.
(228) Near east coast of eastern Honshu
ISC V 27 08 51 47.3–1.1 36.95N–.08 141.3E–.10 40–9 3.4b 20 0-64
NIED V 27 08 51 00 36.90N 141.10E 47 3.7W **¶17204555**
ISCJB V 27 08 51 46.3–1.1 36.95N–.06 141.29E–.10 49–8 3.5b
IDC V 27 08 51 48.7–3.3 36.97N 141.23E 51–30 3.5,3.5
JMA V 27 08 51 48.6–.10 36.93N 141.08E 51–1 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ14.00000°,λ127.00000°. NP2:ϕ_s28.00000°,δ79.00000°,λ82.00000°. $M_0$4.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=8.3km az=31.4.
IDC Error ellipse: s-maj=29.1km s-min=17.7km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(235) Kyushu
ISC V 27 10 30 40.1–1.3 31.14N–.04 131.46E–.09 41–11 3.7b,3.2s 30 0-76
NIED V 27 10 30 00 31.10N 131.50E 20 4.0W,3.2s **¶17204561**
ISCJB V 27 10 30 38.9–.75 31.13N–.03 131.54E–.08 52–6 3.6b,3.2s
JMA V 27 10 30 39.5–.10 31.11N 131.50E 34–1 3.9,3.2s
IDC V 27 10 30 42.8–3.2 31.24N 131.41E 65–31 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ8.00000°,λ-127.00000°. NP2:ϕ_s194.00000°,δ83.00000°,λ-85.00000°. $M_0$1.07000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.0km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s344.00000°,δ66.00000°,λ-111.00000°. NP2: ϕ_s208.00000°,δ32.00000°,λ-51.00000°. Principal axes: T Plg18.0000°,Azm90.0000° ; N Plg19.0000°,Azm353.0000°; P Plg63.0000°,Azm220.0000°
IDC Error ellipse: s-maj=53.9km s-min=20.7km az=60.0.
(228) Near east coast of eastern Honshu
ISC V 27 11 25 09.6–1.0 37.02N–.03 140.67E–.06 6–9 3.5b 23 0-61
NIED V 27 11 25 00 37.00N 140.80E 5 3.6W **¶16551157**
IDC V 27 11 25 07.5–1.7 37.22N 140.73E 0 3.6,3.4
ISCJB V 27 11 25 08.0–.83 36.97N–.03 140.91E–.07 12–4 3.6b,3.4
JMA V 27 11 25 08.7 36.98N 140.83E 15–1 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ30.00000°,λ-175.00000°. NP2:ϕ_s40.00000°,δ87.00000°,λ-60.00000°. $M_0$2.51000×10^{14}
IDC Error ellipse: s-maj=33.1km s-min=20.8km az=173.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.6km az=10.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s221.00000°,δ79.00000°,λ28.00000°. NP2:ϕ_s126.00000°,δ63.00000°,λ168.00000°. Principal axes: T Plg27.0000°,Azm87.0000°; N Plg60.0000°,Azm241.0000°; P Plg11.0000° ,Azm351.0000°
(227) Eastern Honshu
ISC V 27 13 33 38.3–.58 39.58N–.03 140.69E–.03 25–3 4.6b,3.6s 266 0-146
NIED V 27 13 33 00 39.60N 140.70E 5 4.2W,3.6s **¶16551172**
IDC V 27 13 33 35.0–.48 39.60N 140.56E 0 4.5,4.4
JMA V 27 13 33 36.1 39.61N 140.63E 5–1 4.6,4.4
ISCJB V 27 13 33 36.1–.41 39.62N–.02 140.65E–.02 18–3 4.5b,3.7s
MOS V 27 13 33 38.7–1.1 39.60N 140.60E 40 4.8b,3.7s
NEIC V 27 13 33 41.5–.57 39.59N 140.58E 51–5 4.7b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ59.00000°,λ144.00000°. NP2:ϕ_s272.00000°,δ60.00000°,λ36.00000°. $M_0$2.61000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.4km az=99.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s261.00000°,δ69.00000°,λ41.00000°. NP2:ϕ_s154.00000°,δ53.00000°,λ153.00000°. Principal axes: T Plg43.0000°,Azm124.0000°; N Plg45.0000°,Azm284.0000°; P Plg10.0000° ,Azm24.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=144.5.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=97.2.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=137.0. Recorded [4 JMA] in Akita.
(230) Near south coast of eastern Honshu
ISC V 27 13 51 25.1–.74 34.99N–.03 139.47E–.04 20–3 3.6b 30 0-59
ISCJB V 27 13 51 26.6–.48 35.00N–.03 139.48E–.04 32–3 3.6b **¶17204572**
JMA V 27 13 51 26.6 35.03N 139.46E 33–1 3.4
IDC V 27 13 51 29.1–1.8 34.91N 139.31E 52–18 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=161.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ76.00000°,λ36.00000°. NP2:ϕ_s274.00000°,δ56.00000°,λ163.00000°. Principal axes: T Plg35.0000°,Azm239.0000°; N Plg52.0000°,Azm33.0000°; P Plg13.0000° ,Azm140.0000°
IDC Error ellipse: s-maj=31.7km s-min=10.9km az=72.0.
(259) Mindanao
ISC V 27 14 19 25.0–.49 5.93N–.03 126.19E–.04 71–4 4.8b 514 1-163
MOS V 27 14 19 19.5–1.2 5.97N 126.09E 40 5.1b **¶16553941**
MAN V 27 14 19 21 5.86N 126.30E 68 5.6b,5.0s
ISCJB V 27 14 19 23.4–.35 5.96N–.02 126.25E–.03 74–3 4.8b,5.0s
GCMT V 27 14 19 24.8–.20 5.94N 126.31E 48–1 5.1W,5.0s
KLM V 27 14 19 25.0 6.16N 126.24E 68 5.7s,5.0b
NEIC V 27 14 19 24.8–.92 5.98N 126.12E 73–8 5.0b,5.0b
IDC V 27 14 19 25.4–.97 5.92N 126.08E 74–7 4.7,4.5
DJA V 27 14 19 25.4–.40 6N–3.0 126E–3.0 53–3 5.9,5.5
ISC Event type fe.
MAN Event type fe. INTENSITY III - MALITA DAVAO DEL SUR; INTENSITY II - GENERAL SANTOS CITY; KIDAPAWAN CITY.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c87; s75,c116;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.17±.14 $M_{\theta\theta}$0.43±.10; $M_{\phi\phi}$-4.60±.11; $M_{r\theta}$1.75±.09; $M_{\theta\phi}$-0.91±.10; $M_{\phi r}$0.52±.13; Best double couple: NP1:ϕ_s30.00000°,δ54.00000°,λ116.00000°. NP2:ϕ_s170.00000°,δ43.00000°,λ59.00000°. Principal axes: T 4.8630,Plg69.0000°,Azm357.0000°; N -0.0310,Plg21.0000°,Azm194.0000° ; P -4.8350,Plg5.0000°,Azm102.0000° $M_0$4.84900×10^{16}
NEIC Event type fe. Felt [II PIVS] at General Santos and Kidapawan.
(228) Near east coast of eastern Honshu
ISC V 27 14 39 25.2–.48 36.37N–.04 141.29E–.05 17–3 4.5b 129 1-147
NIED V 27 14 39 00 36.40N 141.20E 32 4.2W **¶16560157**
MOS V 27 14 39 26.5–1.3 36.45N 141.20E 37 4.5b
ISCJB V 27 14 39 26.0–.81 36.43N–.03 141.22E–.04 33–5 4.4b,3.9s
JMA V 27 14 39 27.3–.10 36.43N 141.12E 46–2 4.3,3.9s
NEIC V 27 14 39 28.0–.35 36.43N 141.18E 35 4.6b,3.9s
IDC V 27 14 39 30.7–1.8 36.32N 141.10E 59–17 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ10.00000°,λ-81.00000°. NP2:ϕ_s215.00000°,δ80.00000°,λ-92.00000°. $M_0$2.08000×10^{15}
MOS Error ellipse: s-maj=10.6km s-min=6.8km az=98.4.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=39.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.3km az=146.0. Recorded [2 JMA] in Ibaraki and Tochigi.
IDC Error ellipse: s-maj=14.6km s-min=8.9km az=70.0.
(228) Near east coast of eastern Honshu
ISC V 27 15 02 48.1–1.4 35.90N–.04 140.95E–.06 13–9 4.0b 40 0-148
NIED V 27 15 02 00 35.90N 141.10E 11 3.9W **¶16711067**
IDC V 27 15 02 46.5–.56 35.80N 140.86E 0 4.1,4.0
ISCJB V 27 15 02 48.4–.61 35.84N–.03 140.89E–.06 24–4 3.9b,2.6s
JMA V 27 15 02 48.2–.10 35.89N 140.97E 18–1 4.2,2.6s
NEIC V 27 15 02 51.2–.47 35.79N 140.80E 35 4.4b,2.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ32.00000°,λ-113.00000°. NP2:ϕ_s218.00000°,δ61.00000°,λ-76.00000°. $M_0$8.09000×10^{14}
IDC Error ellipse: s-maj=17.7km s-min=12.3km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.5km az=164.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s243.00000°,δ60.00000°,λ-97.00000°. NP2: ϕ_s76.00000°,δ30.00000°,λ-79.00000°. Principal axes: T Plg15.0000°,Azm338.0000° ; N Plg6.0000°,Azm246.0000°; P Plg74.0000°,Azm136.0000°
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=9.6km az=76.0. Recorded [1 JMA] in Chiba, Ibaraki and Tochigi.
(81) Panama
ISC V 27 16 56 42.8–.67 7.31N–.06 80.41W–.08 8 4.2b,3.3s 49 2-154
ISCJB V 27 16 56 41.0–.59 7.31N–.04 80.46W–.06 8 4.1b,3.3s **¶16711073**
IDC V 27 16 56 42.5–1.0 7.44N 80.63W 0 4.3,4.2
NEIC V 27 16 56 46.7–.67 7.53N 80.52W 35 4.9b,4.2
ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.2km az=162.2.
IDC Error ellipse: s-maj=32.1km s-min=17.5km az=42.0.
NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=9.0km az=71.0. Felt at Las Tablas and Tonosi.

(370) Crete

ISC	**V**	**27 17 24 30.9–.51**	**35.77N–.02**	**23.47E–.02**	**15–3**	**4.9b,3.4s**	**1224**	**0-145**
ISK	V	27 17 24 27.4	35.72N	23.35E	2	4.5L,3.4s		**¶16551195**
ISCJB	V	27 17 24 29.7–.36	35.67N–.01	23.46E–.02	20–2	4.8b,3.4s		
NEIC	V	27 17 24 30.9	35.79N	23.55E	0	4.8b,4.7L		
THE	V	27 17 24 30.9	35.79N	23.55E	0–0	4.7L,4.7L		
ATH	V	27 17 24 30.1	35.78N	23.51E	21–1	4.6L,4.7L		
IDC	V	27 17 24 30.4–1.9	35.77N	23.51E	11–10	4.7,4.7b		
CSEM	V	27 17 24 30.7–.08	35.71N	23.47E	15	4.8b,4.2W		
MOS	V	27 17 24 31.7–1.0	35.76N	23.53E	30	5.0b,4.2W		
HLW	V	27 17 24 31.2	35.89N	23.76E	33–23	4.4L,4.2W		
PDG	V	27 17 24 32.2–.35	35.91N	23.19E	10–11	4.7L,4.2W		
NIC	V	27 17 24 34.2–.20	36.52N	23.87E	25	5.1b,4.7L		
GII	V	27 17 24 36.3–.19	35.59N	24.04E	10	4.3b,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=34.5.
NEIC Event type fe. Felt [IV] at Platanos and [III] at Chania. Also felt at Iraklion, Kalivai, Kolimvarion and Rethymnon. After THE. Moment Tensor Solution. s12 Moment tensor: Scale 10^{15}Nm; M_{rr}-2.94 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$3.15 $M_{r\theta}$0.33 $M_{\theta\phi}$0.43 $M_{\phi r}$0.85 Best double couple: NP1: ϕ_s191.00000°,δ53.00000°,λ-85.00000°. NP2:ϕ_s3.00000°,δ37.00000°,λ-97.00000°. Principal axes: T 3.3300,Plg8.0000°,Azm278.0000°; N -0.2500,Plg4.0000°,Azm8.0000° ; P -3.0800,Plg81.0000°,Azm126.0000° $M_0$3.20000×10^{15}
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=222.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=218.0.
IDC Error ellipse: s-maj=11.3km s-min=9.2km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=36.0.
MOS Error ellipse: s-maj=5.3km s-min=3.2km az=77.4.
PDG Event type ke. Error ellipse: s-maj=13.5km s-min=4.3km az=90.0.
GII Event type ke.

(226) Near west coast of eastern Honshu

ISC	**V**	**27 18 33 19.9–.99**	**37.03N–.03**	**138.73E–.03**	**13–9**		**22**	**0-61**
IDC	V	27 18 33 18.2–1.8	37.09N	138.75E	0	3.6,3.5		**¶16551198**
ISCJB	V	27 18 33 19.8–.50	37.05N–.03	138.70E–.04	29–5	3.5b,3.5		
JMA	V	27 18 33 20.5	37.04N	138.71E	8–2	3.2,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=13.6km s-min=12.8km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=41.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s82.00000°,δ86.00000°,λ146.00000°. NP2:ϕ_s175.00000°,δ57.00000°,λ5.00000°. Principal axes: T Plg26.0000°,Azm33.0000°; N Plg56.0000°,Azm256.0000°; P Plg20.0000° ,Azm133.0000°

(40) California-Nevada border region

ISC	**V**	**27 19 45 48.9–.54**	**38.40N–.02**	**118.67W–.02**	**10**	**3.8b**	**146**	**0-101**
ISCJB	V	27 19 45 48.8–.19	38.41N–.02	118.68W–.02	10	4.3b,3.6s		**¶16577333**
NEIC	V	27 19 45 48.5	38.44N	118.73W	3	4.2L,3.8W		
IDC	V	27 19 45 48.9–.92	38.42N	118.75W	0	3.9,3.9L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.3km az=135.6.
NEIC Event type fe. Felt [III] at Hawthorne. After REN. Moment Tensor Solution. s18 Moment tensor: Scale 10^{14}Nm; M_{rr}-6.31 $M_{\theta\theta}$1.13 $M_{\phi\phi}$5.18 $M_{r\theta}$0.00 $M_{\theta\phi}$2.42 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s205.00000°,δ45.00000°,λ-90.00000°. NP2:ϕ_s25.00000° ,δ45.00000°,λ-90.00000°. Principal axes: T 6.3100,Plg0.0000°,Azm115.0000° ; N 0.0000,Plg0.0000°,Azm205.0000°; P -6.3100,Plg90.0000°,Azm0.0000° $M_0$6.30000×10^{14}
IDC Error ellipse: s-maj=13.7km s-min=5.9km az=11.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**27 20 29 57.5**	**36.72N**	**140.61E**	**8**	**2.6**		
								¶600624690

JMA Event type fe.

(115) Near coast of Peru

ISC	**V**	**27 22 07 53.1–.78**	**14.11S–.09**	**76.4W–.10**	**30**	**4.1b**	**21**	**2-146**
NEIC	V	27 22 07 48.0	14.59S	76.61W	28	4.2L,4.1b		**¶16640724**
IDC	V	27 22 07 56.3–3.9	14.24S	76.07W	35–31	3.7,3.7		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Ica. After ARE.
IDC Error ellipse: s-maj=35.4km s-min=19.1km az=55.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**27 23 01 54.1–.47**	**39.81N–.03**	**142.07E–.04**	**51–3**	**4.8b,3.7s**	**387**	**0-145**
NIED	V	27 23 01 00	39.80N	142.10E	47	4.5W,3.7s		**¶16551226**
MOS	V	27 23 01 50.4–.93	39.77N	141.95E	33	5.0b,3.7s		
JMA	V	27 23 01 53.7	39.80N	142.14E	47–1	4.5,3.7s		
ISCJB	V	27 23 01 53.4–.27	39.81N–.02	142.04E–.03	57–2	4.8b,3.6s		
IDC	V	27 23 01 54.8–1.4	39.80N	142.09E	59–12	4.5,4.3		
NEIC	V	27 23 01 56.0–.38	39.82N	142.00E	68–3	4.8b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ26.00000°,λ43.00000°. NP2:ϕ_s30.00000°,δ73.00000°,λ110.00000°. $M_0$5.92000×10^{15}
MOS Error ellipse: s-maj=7.5km s-min=4.3km az=107.4.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=32.4.
IDC Error ellipse: s-maj=14.0km s-min=8.8km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=132.0. Recorded [3 JMA] in Iwate.

(43) Southern California

ISC	**V**	**27 23 17 24.5–.88**	**34.22N–.02**	**117.03W–.02**	**8–6**		**125**	**0-36**
NEIC	V	27 23 17 24.3	34.23N	117.05W	2	3.8L		**¶16631873**
IDC	V	27 23 17 30.1–3.5	34.37N	116.75W	20–18	3.6,3.4		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Running Springs and [II] at Angelus Oaks, Big Bear City, Big Bear Lake, Cedar Glen, Highland, Lake Arrowhead, Redlands, Riverside and San Bernardino. Also felt at Camarillo, Colton, Crestline, Irvine, Joshua Tree, Loma Linda, Mentone, Palm Springs, Temecula and Yucaipa. After PAS.
IDC Error ellipse: s-maj=40.0km s-min=14.9km az=46.0.

(43) Southern California

ISC	**V**	**28 00 21 25.9–.96**	**34.21N–.02**	**117.05W–.02**	**7–9**		**47**	**0-2**
ISCJB	V	28 00 21 25.0–.37	34.22N–.02	117.06W–.02	3–4			**¶17451589**
NEIC	V	28 00 21 26.0	34.23N	117.05W	2	2.7L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.9km az=157.9.
NEIC Event type fe. Felt at Chatsworth, Highland, Redlands and Running Springs. After PAS.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 01 08 11.3–1.8**	**39.59N–.05**	**142.61E–.06**	**13–10**	**4.1b,3.4s**	**54**	**1-88**
NIED	V	28 01 08 00	39.60N	142.70E	14	4.0W,3.4s		**¶16560158**
JMA	V	28 01 08 10.8–.10	39.56N	142.70E	25–1	4.2,3.4s		
NEIC	V	28 01 08 16.9–2.6	39.83N	142.35E	35	4.2b,3.4s		
IDC	V	28 01 08 17.4–2.1	39.58N	142.56E	66–18	3.9,3.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ45.00000°,λ-21.00000°. NP2:ϕ_s208.00000°,δ76.00000°,λ-133.00000°. $M_0$1.28000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=55.7km s-min=14.1km az=120.0. Recorded [1 JMA] in Aomori and Iwate.
IDC Error ellipse: s-maj=18.8km s-min=14.3km az=105.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 01 57 19.5–1.1**	**35.69N–.04**	**140.98E–.06**	**9–6**	**4.2b,3.4s**	**66**	**0-148**
NIED	V	28 01 57 00	35.70N	141.00E	8	4.3W,3.4s		**¶16551244**
ISCJB	V	28 01 57 17.1–.00	35.72N–.03	141.12E–.04	6–6	4.2b,3.3s		
IDC	V	28 01 57 18.2–.57	35.66N	140.88E	0	4.2,4.1L		
NEIC	V	28 01 57 19.5–2.7	35.69N	141.00E	9–17	4.5b,4.1L		
JMA	V	28 01 57 19.9–.20	35.71N	140.95E	11–1	4.4,4.1L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ39.00000°,λ-78.00000°. NP2:ϕ_s162.00000°,δ52.00000°,λ-100.00000°. $M_0$3.66000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.0km az=154.2.
IDC Error ellipse: s-maj=18.9km s-min=13.5km az=88.0.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=7.1km az=111.0. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 02 13 59.5–.50**	**36.45N–.04**	**140.67E–.04**	**54–3**	**4.5b,3.1s**	**266**	**0-148**
NIED	V	28 02 13 00	36.50N	140.60E	59	4.3W,3.1s		**¶16551248**
MOS	V	28 02 13 57.6–.98	36.53N	140.62E	50	4.8b,3.1s		
ISCJB	V	28 02 13 58.9–.36	36.48N–.03	140.62E–.04	62–2	4.5b,3.1s		
JMA	V	28 02 13 59.8–.10	36.46N	140.60E	56–1	4.4,3.1s		
NEIC	V	28 02 14 00.5–.55	36.49N	140.53E	59–4	4.7b,3.1s		
IDC	V	28 02 14 02.2–1.5	36.40N	140.46E	77–13	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ21.00000°,λ62.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ100.00000°. $M_0$3.71000×10^{15}
MOS Error ellipse: s-maj=9.5km s-min=5.3km az=113.2.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=32.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ65.00000°,λ88.00000°. NP2:ϕ_s197.00000°,δ25.00000°,λ94.00000°. Principal axes: T Plg70.0000°,Azm279.0000°; N Plg2.0000°,Azm13.0000°; P Plg20.0000° ,Azm104.0000°
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.7km az=133.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=14.0km s-min=9.3km az=82.0.

(162) South Island

ISC	**V**	**28 05 24 49.8–.73**	**45.51S–.05**	**167.09E–.05**	**74–6**	**3.7b**	**84**	**0-146**
ISCJB	V	28 05 24 48.7–.39	45.49S–.04	167.16E–.05	84–4	4.2b		**¶16551271**
IDC	V	28 05 24 50.8–7.2	45.39S	167.20E	79–70	4.8L,3.6		
WEL	V	28 05 24 50.4–.22	45.56S	167.01E	65–1	4.5L,3.6		
NEIC	V	28 05 24 50.6	45.58S	167.04E	64	4.7b,4.6L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=145.4.
IDC Error ellipse: s-maj=73.3km s-min=26.1km az=16.0.
WEL Event type fe. Error ellipse: s-maj=2.7km s-min=1.6km az=90.0. Felt between Otago, Southland and Fiordland, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Te Anau. After WEL.

(366) Turkey

ISC	**V**	**28 05 47 18.4–.74**	**39.13N–.01**	**29.00E–.01**	**13–4**	**4.9b,4.3s**	**1396**	**0-146**
HLW	V	28 05 47 16.8	39.21N	28.95E	33–22	4.4L,4.3s		**¶16551277**
IDC	V	28 05 47 16.0–.42	39.08N	29.08E	0	4.6,4.5		
DDA	V	28 05 47 16.7	39.12N	29.04E	23	4.7L,4.5		
ISCJB	V	28 05 47 17.9–.24	39.095N–.01	29.03E–.01	20–2	4.8b,4.2s		
NEIC	V	28 05 47 17.0	39.12N	29.05E	9	5.0L,4.9b		
PDG	V	28 05 47 17.6–.49	39.13N	29.03E	15–0	4.7L,4.9b		
ISK	V	28 05 47 17.0	39.11N	29.02E	8	5.0L,4.9b		
GCMT	V	28 05 47 17.0–.20	39.09N	29.04E	14–0	5.1W,4.9b		
MOS	V	28 05 47 17.3–.91	39.14N	29.07E	14	5.1b,4.2s		
THE	V	28 05 47 18.8	39.10N	28.97E	1–2	5.1b,4.2s		
CSEM	V	28 05 47 18.1–.04	39.11N	29.04E	10	5.0b,5.0W		
NIC	V	28 05 47 21.5–.20	39.05N	29.02E	25	5.0b,4.7L		
GII	V	28 05 47 22.3–.00	38.94N	29.11E	28	4.3b,4.2		

ISC Event type fe.
IDC Error ellipse: s-maj=10.0km s-min=8.8km az=169.0.
DDA Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.4km az=32.0.
NEIC Event type fe. Felt [IV] at Bursa and [II] at Simav. Also felt at Istanbul, Izmir, Kocaeli and Mudanya. After ISK. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.57 $M_{\theta\theta}$1.95 $M_{\phi\phi}$-0.38 $M_{r\theta}$0.40 $M_{\theta\phi}$-1.27 $M_{\phi r}$-0.21 Best double couple: NP1:ϕ_s296.00000° ,δ51.00000°,λ-86.00000°. NP2:ϕ_s111.00000°,δ39.00000°,λ-94.00000°. Principal axes: T 2.5600,Plg6.0000°,Azm24.0000°; N -0.9300,Plg3.0000°,Azm114.0000° ; P -1.6200,Plg83.0000°,Azm228.0000° $M_0$2.20000×10^{16}
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c60; s92,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.36±.20 $M_{\theta\theta}$3.68±.14; $M_{\phi\phi}$0.67±.13; $M_{r\theta}$-1.07±.25; $M_{\theta\phi}$-2.03±.09; $M_{\phi r}$-1.06±.32; Best double couple: NP1:ϕ_s100.00000° ,δ51.00000°,λ-113.00000°. NP2:ϕ_s314.00000°,δ45.00000°,λ-65.00000°. Principal axes: T 4.7300,Plg3.0000°,Azm206.0000°; N 0.1060,Plg18.0000°,Azm115.0000° ; P -4.8380,Plg72.0000°,Azm306.0000° $M_0$4.78400×10^{16}
MOS Error ellipse: s-maj=4.2km s-min=3.2km az=89.3.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.5km az=63.0.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=27.0.
GII Event type ke.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 10 47 54.7–1.1**	**36.92N–.03**	**140.76E–.05**	**9–8**	**3.6b**	**20**	**0-61**
NIED	V	28 10 47 00	36.90N	140.70E	5	3.5W		**¶17204620**
ISCJB	V	28 10 47 53.9–.83	36.90N–.03	140.82E–.07	15–8	3.6b		
JMA	V	28 10 47 55.0	36.93N	140.67E	5–1	3.6		
IDC	V	28 10 48 02.4–4.1	36.46N	140.37E	35–33	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ22.00000°,λ-64.00000°. NP2:ϕ_s237.00000°,δ70.00000°,λ-100.00000°. $M_0$1.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=12.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ48.00000°,λ-87.00000°. NP2:ϕ_s55.00000°,δ42.00000°,λ-93.00000°. Principal axes: T Plg3.0000°,Azm327.0000°; N Plg2.0000°,Azm57.0000°; P Plg86.0000° ,Azm181.0000°
IDC Error ellipse: s-maj=27.7km s-min=20.3km az=87.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 11 55 14.5–.58**	**38.67N–.05**	**142.43E–.06**	**24**	**3.9b**	**42**	**1-145**
NIED	V	28 11 55 00	38.70N	142.40E	41	3.9W		**¶17204625**
ISCJB	V	28 11 55 12.8–.47	38.69N–.04	142.51E–.05	24	3.8b,3.6s		
JMA	V	28 11 55 14.8–.10	38.70N	142.40E	34–2	3.9,3.6s		
IDC	V	28 11 55 16.1–.73	38.62N	142.29E	37–6	3.9,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ39.00000°,λ75.00000°. NP2:ϕ_s347.00000°,δ53.00000°,λ102.00000°. $M_0$8.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.0km az=162.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.0km s-min=12.8km az=103.0.

(162) South Island

WEL	**V**	**28 12 05 20.4–.07**	**43.54S**	**172.70E**	**10–0**	**3.6L**		
								¶16551323

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(230) Near south coast of eastern Honshu

ISC	**V**	**28 12 28 28.0–.81**	**35.88N–.04**	**139.93E–.05**	**72–6**	**4.1b**	**34**	**0-69**
NIED	V	28 12 28 00	35.90N	139.90E	62	3.7W		**¶17204627**
ISCJB	V	28 12 28 26.6–.47	35.87N–.03	139.94E–.06	76–3	4.0b		
IDC	V	28 12 28 27.3–2.9	35.84N	140.00E	67–21	4.0,3.8		
JMA	V	28 12 28 27.9–.10	35.92N	139.93E	66–2	3.7,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ60.00000°,λ154.00000°. NP2:ϕ_s93.00000°,δ68.00000°,λ33.00000°. $M_0$3.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.0km az=161.9.
IDC Error ellipse: s-maj=39.7km s-min=6.9km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s81.00000°,δ87.00000°,λ37.00000°. NP2: ϕ_s349.00000°,δ53.00000°,λ177.00000°. Principal axes: T Plg27.0000°,Azm311.0000° ; N Plg53.0000°,Azm84.0000°; P Plg23.0000°,Azm209.0000°

(162) South Island

WEL	**V**	**28 13 35 07.5–.18**	**41.86S**	**173.97E**	**15–1**	**3.8L**		
								¶16551335

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.3km az=0.0. Felt in the Marlborough region, maximum reported intensity MM 4.

(229) Off east coast of Honshu

ISC	**V**	**28 13 46 06.9–.38**	**36.32N–.03**	**142.16E–.04**	**32–2**	**5.1b,4.7s**	**689**	**1-147**
NIED	V	28 13 46 00	36.40N	142.20E	11	4.9W,4.7s		**¶16551340**
IDC	V	28 13 46 01.9–.48	36.26N	142.19E	0	4.9,4.8		
JMA	V	28 13 46 04.7–.20	36.30N	142.13E	77–5	5.0,4.8		
ISCJB	V	28 13 46 05.3–.70	36.33N–.02	142.07E–.02	27–4	5.1b,4.6s		
BJI	V	28 13 46 05.8	36.46N	141.89E	31	5.4b,5.1b		
NEIC	V	28 13 46 07.9–.13	36.29N	142.02E	35	5.0b,5.1b		
GCMT	V	28 13 46 07.9–.30	36.27N	142.32E	25–1	5.0W,5.1b		
MOS	V	28 13 46 08.1–.83	36.66N	142.00E	37	5.4b,4.6s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ19.00000°,λ94.00000°. NP2:ϕ_s13.00000°,δ71.00000°,λ88.00000°. M_o2.73000×10^{16}

IDC Error ellipse: s-maj=12.4km s-min=10.7km az=111.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.5km az=142.7.

NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=156.0. Felt at Ichinoseki and Kagawa. Recorded [1 JMA] in Chiba, Ibaraki and Saitama.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c43; s80,c119; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.88±.18 $M_{\theta\theta}$-0.74±.11; $M_{\phi\phi}$-2.15±.11; $M_{r\theta}$1.05±.22; $M_{\theta\phi}$-0.83±.06; $M_{\phi r}$2.73±.21; Best double couple: NP1:ϕ_s22.00000°,δ69.00000°,λ88.00000°. NP2:ϕ_s207.00000°,δ21.00000°,λ94.00000°. Principal axes: T 4.1600,Plg66.0000°,Azm289.0000°; N -0.3550,Plg2.0000°,Azm23.0000°; P -3.8110,Plg24.0000°,Azm113.0000° M_o3.98600×10^{16}

MOS Error ellipse: s-maj=6.4km s-min=3.9km az=109.5.

(227) Eastern Honshu

ISC	**V**	**28 13 54 11.2–.92**	**37.04N–.03**	**140.68E–.04**	**10–7**	**3.8b**	**24**	**0-61**
IDC	V	28 13 54 08.8–1.7	37.08N	140.84E	0	3.9,3.8		¶600625196
ISCJB	V	28 13 54 10.6–.59	37.03N–.03	140.78E–.05	16–5	3.8b,3.8		
JMA	V	28 13 54 11.2	37.03N	140.68E	9–1	3.6,3.8		

ISC Event type ke.

IDC Error ellipse: s-maj=36.1km s-min=22.6km az=61.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=14.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ59.00000°,λ-100.00000°. NP2:ϕ_s125.00000°,δ33.00000°,λ-73.00000°. Principal axes: T Plg13.0000°,Azm23.0000°; N Plg9.0000°,Azm291.0000°; P Plg74.0000°,Azm168.0000°

(229) Off east coast of Honshu

ISC	**V**	**28 14 56 04.5–.46**	**37.48N–.04**	**143.65E–.04**	**31–2**	**4.9b,4.7s**	**372**	**2-153**
IDC	V	28 14 55 59.9–.46	37.42N	143.71E	0	4.6,4.5		¶17204636
ISCJB	V	28 14 56 01.0–.77	37.55N–.03	143.53E–.02	12–4	4.8b,4.6s		
NIED	V	28 14 56 00	37.50N	143.50E	5	4.9W,4.6s		
JMA	V	28 14 56 02.3–.10	37.48N	143.55E	41	4.7,4.6s		
GCMT	V	28 14 56 04.9–.20	37.54N	143.64E	19–1	5.0W,4.6s		
NEIC	V	28 14 56 04.9–.28	37.42N	143.59E	35	5.0b,4.6s		
MOS	V	28 14 56 06.1–1.1	37.86N	143.40E	34	5.0b,4.4s		
BJI	V	28 14 56 07.0	37.61N	143.09E	35	5.2b,4.9s		

ISC Event type se.

IDC Error ellipse: s-maj=13.0km s-min=10.5km az=108.0.

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=165.9.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ44.00000°,λ179.00000°. NP2:ϕ_s37.00000°,δ89.00000°,λ46.00000°. M_o2.89000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s84,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.21±.14 $M_{\theta\theta}$-2.95±.10; $M_{\phi\phi}$4.16±.12; $M_{r\theta}$0.81±.21; $M_{\theta\phi}$-0.40±.08; $M_{\phi r}$0.78±.20; Best double couple: NP1:ϕ_s219.00000°,δ80.00000°,λ-22.00000°. NP2:ϕ_s313.00000°,δ69.00000°,λ-169.00000°. Principal axes: T 4.2810,Plg8.0000°,Azm268.0000°; N -0.9570,Plg66.0000°,Azm15.0000°; P -3.3240,Plg23.0000°,Azm175.0000° M_o3.80200×10^{16}

NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=146.0. Recorded [1 JMA] in Iwate and Miyagi.

MOS Error ellipse: s-maj=7.7km s-min=4.7km az=110.1.

(71) Near coast of Guatemala

ISC	**V**	**28 15 56 47.7–1.6**	**13.8N–.10**	**90.91W–.06**	**70–18**		**38**	**1-7**
ISCJB	V	28 15 56 46.1–1.0	13.8N–.10	90.92W–.06	89–13			¶16855443
CASC	V	28 15 56 46.5–.70	13.78N	90.94W	72–10	4.2L,3.9		
MEX	V	28 15 56 48.3–.58	13.70N	90.96W	78–30	4.1,3.9		
NEIC	V	28 15 56 48.3	13.70N	90.96W	78	4.3,4.1		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=19.7km s-min=4.9km az=28.9.

CASC Error ellipse: s-maj=8.7km s-min=5.4km az=-1.0.

MEX Error ellipse: s-maj=9.0km s-min=12.6km az=-1.0.

NEIC Event type fe. Felt [I] at Ahuachapan, El Salvador. After MEX.

(40) California-Nevada border region

ISC	**V**	**28 16 21 15.7–.70**	**38.44N–.02**	**118.75W–.02**	**10**		**54**	**0-24**
NEIC	V	28 16 21 15.5	38.42N	118.74W	5	3.3L		¶16577345
ISCJB	V	28 16 21 16.0–.34	38.49N–.02	118.78W–.04	10	2.8b		
IDC	V	28 16 21 18.0–.92	38.65N	118.59W	0	3.5L,3.3		

ISC Event type fe.

NEIC Event type fe. Felt at Hawthorne. After REN.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=156.1.

IDC Error ellipse: s-maj=23.0km s-min=5.8km az=50.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 16 54 17.1–.81**	**35.66N–.05**	**140.08E–.06**	**74–6**	**4.0b**	**36**	**0-75**
NIED	V	28 16 54 00	35.70N	140.10E	71	4.0W		¶17204645
ISCJB	V	28 16 54 15.7–.47	35.65N–.04	140.10E–.06	79–3	3.9b		
IDC	V	28 16 54 15.8–2.3	35.67N	140.35E	68–17	3.9,3.6b		
JMA	V	28 16 54 16.5–.20	35.70N	140.09E	71–2	3.4,3.6b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ21.00000°,λ96.00000°. NP2:ϕ_s4.00000°,δ69.00000°,λ88.00000°. M_o1.01000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.9km az=151.3.

IDC Error ellipse: s-maj=34.9km s-min=10.7km az=77.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s3.00000°,δ67.00000°,λ80.00000°. NP2: ϕ_s207.00000°,δ25.00000°,λ112.00000°. Principal axes: T Plg67.0000°,Azm255.0000°; N Plg9.0000°,Azm7.0000°; P Plg21.0000°,Azm101.0000°

(274) Southern Sumatera

ISC	**V**	**28 17 07 41.9–.29**	**5.73S–.03**	**103.46E–.03**	**43–2**	**6.0b,5.4s**	**1991**	**1-178**
BJI	V	28 17 07 33.8	6.30S	103.47E	27	5.8b,5.7b		¶16551362
NEIC	V	28 17 07 36.0–.00	5.86S	103.39E	15	5.8b,5.7b		
MOS	V	28 17 07 40.1–.93	5.62S	103.62E	33	6.2b,5.2s		
GCMT	V	28 17 07 40.2–.10	5.98S	103.31E	26	5.7W,5.2s		
ISCJB	V	28 17 07 41.8–.32	5.70S–.02	103.53E–.02	48–2	6.0b,5.4s		
NEIC	V	28 17 07 41.1–.09	5.70S	103.49E	32	6.1b,5.7W		
DJA	V	28 17 07 43.6–.30	6S–2.0	103E–2.0	42–3	6.3b,6.2		
KLM	V	28 17 07 43.3	5.86S	103.10E	88	6.4s,5.7b		
IDC	V	28 17 07 43.9–.85	5.65S	103.54E	52–6	5.7,5.5		

ISC Event type fe.

NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-0.90 $M_{\phi\phi}$1.00 $M_{r\theta}$3.80 $M_{\theta\phi}$1.20 $M_{\phi r}$-3.00 Best double couple: NP1:ϕ_s131.00000°,δ86.00000°,λ99.00000°. NP2:ϕ_s240.00000°,δ9.00000°,λ19.00000°. Principal axes: T 4.2000,Plg47.0000°,Azm51.0000°; N 1.5000,Plg9.0000°,Azm310.0000°; P -5.7000,Plg41.0000°,Azm212.0000° M_o5.00000×10^{17}

MOS Error ellipse: s-maj=6.9km s-min=4.0km az=115.2.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s106,c202; s102,c224;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.41±.04 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.22±.04; $M_{r\theta}$2.96±.07; $M_{\theta\phi}$2.14±.03; $M_{\phi r}$-2.20±.08; Best double couple: NP1: ϕ_s123.00000°,δ80.00000°,λ84.00000°. NP2:ϕ_s335.00000°,δ12.00000°,λ121.00000°. Principal axes: T 2.9730,Plg55.0000°,Azm25.0000°; N 1.9590,Plg6.0000°,Azm124.0000°; P -4.9320,Plg35.0000°,Azm218.0000° M_o3.95300×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.1km az=39.9.

NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=219.0. Felt [IV] at Krui and Liwa and [II] at Kapahiang and Kotabumi. Felt at Jakarta, Java. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}0.89 $M_{\theta\theta}$0.45 $M_{\phi\phi}$-1.34 $M_{r\theta}$1.09 $M_{\theta\phi}$0.52 $M_{\phi r}$-1.30 Best double couple: NP1: ϕ_s141.00000°,δ75.00000°,λ69.00000°. NP2:ϕ_s17.00000°,δ25.00000°,λ143.00000°. Principal axes: T 1.9600,Plg55.0000°,Azm25.0000°; N 0.3100,Plg20.0000°,Azm147.0000°; P -2.2700,Plg27.0000°,Azm248.0000° M_o2.10000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s325.00000°,δ2.00000°,λ90.00000°. NP2: ϕ_s145.00000°,δ88.00000°,λ90.00000°. Principal axes: T Plg47.0000°,Azm55.0000°; N Plg0.0000°,Azm0.0000°; P Plg43.0000°,Azm235.0000°

IDC Error ellipse: s-maj=9.4km s-min=6.1km az=51.0.

(162) South Island

WEL	**V**	**28 17 14 09.7–.06**	**43.58S**	**172.61E**	**5**	**3.5L**		¶601006219

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 17 59 40.4–1.5**	**40.55N–.05**	**141.98E–.10**	**41–13**	**3.6b**	**17**	**0-61**
JMA	V	28 17 59 39.8–.10	40.54N	142.05E	41–1	3.7		¶600625340
ISCJB	V	28 17 59 40.0–1.0	40.55N–.04	142.0E–.10	46–9	3.5b		
IDC	V	28 17 59 41.8–2.9	40.49N	142.23E	67–25	3.5,3.4		

ISC Event type ke.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.3km az=178.2.

IDC Error ellipse: s-maj=43.3km s-min=22.2km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 18 52 54.5–1.3**	**38.84N–.04**	**142.26E–.08**	**50–10**	**4.3b**	**96**	**1-145**
NIED	V	28 18 52 00	38.90N	142.30E	47	4.3W		¶16577347
ISCJB	V	28 18 52 53.1–.63	38.85N–.03	142.35E–.06	56–4	4.3b,3.5s		
JMA	V	28 18 52 54.4	38.88N	142.26E	46–1	4.3,3.5s		
NEIC	V	28 18 52 56.6–.70	38.90N	142.29E	70–5	4.4b,3.5s		
IDC	V	28 18 52 59.7–2.5	38.82N	142.08E	92–22	4.2,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ28.00000°,λ6.00000°. NP2:ϕ_s218.00000°,δ87.00000°,λ117.00000°. M_o2.96000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.5km az=17.5.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=121.0. Recorded [2 JMA] in Iwate and Miyagi.

IDC Error ellipse: s-maj=17.5km s-min=13.2km az=86.0.

(105) Near coast of Ecuador

ISC	**V**	**28 19 37 03.7–.45**	**2.37S–.05**	**81.64W–.07**	**35**	**4.4b**	**111**	**4-151**
IDC	V	28 19 36 58.9–.64	2.33S	81.71W	0	4.5L,4.3		¶16577348
ISCJB	V	28 19 37 02.0–.28	2.36S–.04	81.65W–.04	33	4.4b,3.7s		
NEIC	V	28 19 37 02.5–2.0	2.37S	81.63W	24–15	4.5b,4.2		

ISC Event type fe.

IDC Error ellipse: s-maj=21.4km s-min=11.8km az=53.0.

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=136.0.

NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=4.2km az=54.0. Felt [IV] at Salinas.

(235) Kyushu

ISC	**V**	**28 20 18 38.7–.98**	**31.63N–.04**	**129.63E–.04**	**10–6**	**4.5b**	**103**	**0-101**
NIED	V	28 20 18 00	31.60N	129.60E	5	4.3W		¶16551392
ISCJB	V	28 20 18 37.5–.68	31.61N–.03	129.60E–.03	13–4	4.4b		
JMA	V	28 20 18 38.0–.10	31.62N	129.60E	7	4.3		
NEIC	V	28 20 18 41.2–1.3	31.65N	129.59E	24–9	4.6b		
IDC	V	28 20 18 45.9–2.9	31.84N	129.64E	60–22	4.0,3.9		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ35.00000°,λ-29.00000°. NP2:ϕ_s211.00000°,δ74.00000°,λ-121.00000°. M_o3.23000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=9.2.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s87.00000°,δ56.00000°,λ-79.00000°. NP2:ϕ_s248.00000°,δ35.00000°,λ-105.00000°. Principal axes: T Plg11.0000°,Azm169.0000°; N Plg9.0000°,Azm261.0000°; P Plg76.0000°,Azm29.0000°

NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=166.0. Recorded [3 JMA] in Kagoshima.

IDC Error ellipse: s-maj=26.0km s-min=16.7km az=7.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 21 04 01.4–1.4**	**37.32N–.04**	**141.52E–.08**	**43–12**	**3.8b**	**43**	**1-90**
ISCJB	V	28 21 04 00.4–.75	37.31N–.03	141.50E–.08	50–6	3.7b		¶17204654
NIED	V	28 21 04 00	37.30N	141.40E	44	3.9W		
JMA	V	28 21 04 02.2–.10	37.34N	141.37E	48–1	3.9		
IDC	V	28 21 04 03.3–2.1	37.28N	141.50E	63–19	3.8,3.7		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.3km az=11.1.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ20.00000°,λ64.00000°. NP2:ϕ_s25.00000°,δ72.00000°,λ99.00000°. M_o7.80000×10^{14}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=16.3km s-min=12.8km az=82.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**28 22 09 32.1–1.2**	**38.80N–.05**	**142.15E–.09**	**50**	**3.6b**	**22**	**0-59**
NIED	V	28 22 09 00	38.80N	142.10E	65	3.8W		¶17204656
ISCJB	V	28 22 09 31.2–1.0	38.83N–.04	142.15E–.09	50	3.5b		
JMA	V	28 22 09 32.9–.10	38.84N	142.06E	46–1	3.7		
IDC	V	28 22 09 45.0–18	38.43N	141.02E	133–112	3.4,3.2b		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ10.00000°,λ-89.00000°. NP2:ϕ_s139.00000°,δ80.00000°,λ-90.00000°. M_o5.92000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.3km az=18.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=254.7km s-min=26.9km az=65.0.

(36) Northern California

ISC	**V**	**28 22 55 25.5–.90**	**38.78N–.03**	**122.74W–.04**	**10**		**42**	**0-30**
IDC	V	28 22 55 21.6–1.9	38.64N	123.14W	0	3.6,3.4		¶16577349
ISCJB	V	28 22 55 24.9–.51	38.75N–.03	122.74W–.06	10	4.2b,3.4		
NEIC	V	28 22 55 24.8	38.79N	122.76W	4	4.3b,3.7W		

ISC Event type fe.

IDC Error ellipse: s-maj=23.7km s-min=12.9km az=50.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.8km az=149.3.

NEIC Event type fe. Felt [III] at Calistoga, Geyserville and Middletown; [II] at Cloverdale and Healdsburg. Also felt at Clearlake, Glen Ellen, Guerneville, Hidden Valley Lake, Kelseyville, Lower Lake, Napa, Saint Helena, Santa Rosa, Vacaville and Windsor. After NCEDC. Moment Tensor Solution. M_o4.90000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**29 00 03 06.7–.57**	**39.81N–.03**	**142.40E–.04**	**32–3**	**4.6b,3.4s**	**164**	**0-145**
NIED	V	29 00 03 00	39.70N	142.40E	44	4.3W,3.4s		¶16551422
ISCJB	V	29 00 03 04.7–.31	39.79N–.03	142.52E–.04	33	4.7b,3.4s		
MOS	V	29 00 03 05.9–1.0	39.93N	142.21E	33	4.6b,3.4s		
JMA	V	29 00 03 07.3	39.75N	142.36E	41–1	4.1,3.4s		
IDC	V	29 00 03 08.4–1.8	39.76N	142.36E	51–15	4.1,4.0		
NEIC	V	29 00 03 13.2–.66	40.24N	141.45E	38–6	4.8b,4.0		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ21.00000°,λ76.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ95.00000°. M_o2.77000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=34.4.

MOS Error ellipse: s-maj=9.7km s-min=5.8km az=99.6.

JMA Event type fe.

IDC Error ellipse: s-maj=15.6km s-min=10.5km az=108.0.

NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=134.0. Recorded [2 JMA] in Aomori.

(366) Turkey

ISC	**V**	**29 01 31 40.4–.98**	**39.15N–.02**	**29.09E–.01**	**4–6**	**4.2b,3.3s**	**508**	**0-78**
DDA	V	29 01 31 39.2	39.14N	29.09E	5	4.5L,3.3s		¶602386139
MOS	V	29 01 31 39.9–1.3	39.18N	29.10E	13	4.3b,3.3s		
ISCJB	V	29 01 31 39.5–.39	39.14N–.01	29.08E–.02	9–3	4.2b,3.4s		
IDC	V	29 01 31 39.4–.65	39.12N	29.10E	0	4.1b,4.1		
NEIC	V	29 01 31 39.5	39.12N	29.08E	11	4.6L,4.5L		
ISK	V	29 01 31 39.5	39.12N	29.09E	10	4.6L,4.5L		
CSEM	V	29 01 31 40.6–.08	39.12N	29.08E	10	4.2b,4.5L		
NIC	V	29 01 31 43.6–.30	39.08N	29.18E	25	4.5b,4.1L		

ISC Event type fe.

DDA Event type ke.

MOS Error ellipse: s-maj=6.2km s-min=3.9km az=86.5.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.0km az=135.9.

IDC Error ellipse: s-maj=12.3km s-min=10.2km az=35.0.

NEIC Event type fe. Felt at Simav. After ISK.

CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=52.0.

(228) Near east coast of eastern Honshu

JMA	**V**	**29 02 27 50.5**	**36.80N**	**140.57E**	**17–1**	**3.6**		
NIED	V	29 02 27 00	36.80N	140.60E	41	3.5W		¶600625645

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ89.00000°,λ-56.00000°. NP2:ϕ_s308.00000°,δ34.00000°,λ-178.00000°. Principal axes: T Plg35.0000°,Azm278.0000°; N Plg34.0000°,Azm36.0000°; P Plg37.0000°,Azm156.0000°

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ36.00000°,λ-161.00000°. NP2:ϕ_s215.00000°,δ79.00000°,λ-55.00000°. M_o2.06000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**V**	**29 02 55 50.7–1.7**	**36.57N–.05**	**141.13E–.08**	**20–13**	**3.6b**	**21**	**0-78**

NIED V 29 02 55 00 36.60N 141.10E 8 3.7W ¶17204666
ISCJB V 29 02 55 50.3–1.0 36.54N–.04 141.15E–.07 28–5 3.6b
JMA V 29 02 55 51.5–.10 36.57N 141.06E 36–1 3.8
IDC V 29 02 55 52.9–.89 35.88N 140.76E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ48.00000°,λ-24.00000°. NP2:ϕ_s336.00000°,δ73.00000°,λ-135.00000°. M_o4.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.5km az=18.9.
JMA Event type fe.
IDC Error ellipse: s-maj=22.9km s-min=18.8km az=92.0.

(228) Near east coast of eastern Honshu

ISC V 29 03 12 18.4–1.2 38.17N–.05 141.75E–.08 45–10 3.8b 46 0-89
NIED V 29 03 12 00 38.20N 141.70E 50 4.0W ¶16560171
ISCJB V 29 03 12 18.1–.67 38.17N–.04 141.70E–.08 58–4 3.8b,2.3s
JMA V 29 03 12 18.6–.10 38.17N 141.70E 50–1 3.8,2.3s
IDC V 29 03 12 21.8–2.3 38.13N 141.60E 77–20 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ22.00000°,λ92.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ89.00000°. M_o1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.3km az=22.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=14.3km az=95.0.

(228) Near east coast of eastern Honshu

JMA V 29 03 58 13.7 39.63N 142.12E 48–1 3.9
NIED V 29 03 58 00 39.60N 142.10E 68 3.7W ¶600625684
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ33.00000°,λ-4.00000°. NP2:ϕ_s232.00000°,δ88.00000°,λ-123.00000°. M_o4.34000×10^{14}

(228) Near east coast of eastern Honshu

ISC V 29 04 23 31.4–1.3 36.95N–.03 140.54E–.04 3–9 3.8b 30 0-147
NIED V 29 04 23 00 37.00N 140.60E 8 3.9W ¶17204669
ISCJB V 29 04 23 32.2–.53 36.97N–.03 140.66E–.05 18–4 3.7b,2.9s
JMA V 29 04 23 32.5 36.98N 140.60E 10–1 4.2,2.9s
IDC V 29 04 23 40.9–2.8 36.83N 140.18E 76–24 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ53.00000°,λ-134.00000°. NP2:ϕ_s154.00000°,δ55.00000°,λ-48.00000°. M_o6.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=24.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s276.00000°,δ52.00000°,λ-129.00000°. NP2:ϕ_s150.00000°,δ52.00000°,λ-51.00000°. Principal axes: T Plg0.0000°,Azm33.0000°; N Plg30.0000°,Azm303.0000°; P Plg60.0000° ,Azm123.0000°
IDC Error ellipse: s-maj=26.3km s-min=16.7km az=83.0.

(228) Near east coast of eastern Honshu

ISC V 29 04 44 11.9–1.9 36.85N–.04 140.76E–.06 5–13 3.7b 23 0-61
NIED V 29 04 44 00 36.90N 140.70E 5 3.5W ¶17204671
IDC V 29 04 44 11.5–2.1 36.84N 140.81E 0 3.9L,3.8
ISCJB V 29 04 44 12.4–.79 36.84N–.03 140.81E–.06 15–4 3.6b,3.8
JMA V 29 04 44 13.5 36.87N 140.69E 8–1 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ30.00000°,λ-97.00000°. NP2:ϕ_s171.00000°,δ60.00000°,λ-86.00000°. M_o2.21000×10^{14}
IDC Error ellipse: s-maj=45.4km s-min=26.0km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.3km az=20.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s353.00000°,δ49.00000°,λ-88.00000°. NP2:ϕ_s169.00000°,δ41.00000°,λ-93.00000°. Principal axes: T Plg4.0000°,Azm81.0000°; N Plg2.0000°,Azm171.0000°; P Plg86.0000° ,Azm288.0000°

(159) North Island

WEL V 29 07 39 55.8–.11 38.54S 177.90E 24–1 3.6L ¶16551465
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.

(254) Panay

ISC V 29 09 15 24.7–.68 10.65N–.03 122.18E–.03 47–6 4.5b,3.8s 188 0-174
IDC V 29 09 15 16.9–.42 10.62N 122.27E 0 4.9L,4.4 ¶16577350
MAN V 29 09 15 21 10.60N 122.10E 21 5.6b,5.0s
ISCJB V 29 09 15 23.0–.30 10.72N–.02 122.28E–.03 49–3 4.5b,3.9s
NEIC V 29 09 15 23.1–.78 10.66N 122.39E 44–7 4.7b,3.9s
KLM V 29 09 15 27.7 10.41N 122.30E 48 5.9s,4.6b
DJA V 29 09 15 34.7–1.3 10N–6.0 122E–6.0 62–15 5.5b,4.9
ISC Event type fe.
MAN Event type fe. INTENSITY IV - SIBALOM ANTIQUE; INTENSITY III - ILOILO CITY; SAN JOSE PATNOGON AND HAMTIC ANTIQUE.
ISCJB Event type fe.
NEIC Event type fe. Felt [V PIVS] at Tubungan, [IV PIVS] at Sibalom and [III PIVS] at Hamtic, Iloilo, Patnongon and San Jose. Also felt at Tigbauan.

(159) North Island

WEL V 29 09 30 44.8–.10 38.23S 177.02E 63–1 4.1L
NEIC V 29 09 30 44.8 38.24S 177.03E 64 4.1L ¶16551478
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt from Bay of Plenty to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Taneatua. After WEL.

(228) Near east coast of eastern Honshu

ISC V 29 09 38 39.5–1.5 37.79N–.06 141.9E–.10 35–16 3.4b 35 1-146
NIED V 29 09 38 00 37.80N 141.80E 44 3.7W ¶17204686
IDC V 29 09 38 34.0–.89 37.68N 142.07E 0 3.8,3.5
ISCJB V 29 09 38 39.7–1.0 37.77N–.04 141.83E–.09 51–10 3.5b,3.5
JMA V 29 09 38 40.5–.10 37.78N 141.76E 48–2 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s151.00000°,δ68.00000°,λ90.00000°. M_o4.18000×10^{14}
IDC Error ellipse: s-maj=27.2km s-min=21.5km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.3km az=17.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC V 29 09 40 41.8–.55 38.32N–.04 141.84E–.05 54–4 4.2b 116 0-149
NIED V 29 09 40 00 38.40N 141.80E 56 4.2W ¶16551480
MOS V 29 09 40 41.8–1.3 38.31N 141.91E 75 4.2b
ISCJB V 29 09 40 41.0–.48 38.34N–.03 141.83E–.05 61–3 4.2b
IDC V 29 09 40 42.1–.65 38.34N 141.82E 57–5 4.1,4.0
JMA V 29 09 40 42.1–.10 38.37N 141.77E 54–1 4.2,4.0
NEIC V 29 09 40 44.0–.78 38.32N 141.75E 72–7 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ46.00000°,λ71.00000°. NP2:ϕ_s223.00000°,δ47.00000°,λ109.00000°. M_o2.24000×10^{15}
MOS Error ellipse: s-maj=11.7km s-min=7.1km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=20.7.
IDC Error ellipse: s-maj=15.4km s-min=11.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=7.1km az=108.0. Recorded [2 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC V 29 09 49 17.1–1.2 36.35N–.04 141.20E–.05 35–3 3.8b 42 1-91
NIED V 29 09 49 00 36.40N 141.00E 47 4.1W ¶17204687
ISCJB V 29 09 49 16.7–.69 36.36N–.03 141.13E–.06 46–6 3.7b
JMA V 29 09 49 18.3–.10 36.42N 141.01E 50–1 4.1
IDC V 29 09 49 21.5–2.3 36.34N 140.85E 75–22 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ49.00000°,λ2.00000°. NP2:ϕ_s235.00000°,δ89.00000°,λ139.00000°. M_o1.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.4km az=15.6.
JMA Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=14.9km az=82.0.

(366) Turkey

ISC V 29 11 02 06.3–.62 37.32N–.02 42.60E–.02 10–3 4.4b,3.4s 574 0-96
IDC V 29 11 02 04.1–.72 37.21N 42.49E 0 4.3,4.3 ¶16551494
NSSC V 29 11 02 04.8–1.8 37.50N 42.50E 0–17 4.4L,2.4
ISCJB V 29 11 02 05.0–.57 37.26N–.02 42.68E–.02 13–3 4.3b,3.5s
NEIC V 29 11 02 05.5 37.41N 42.58E 11 4.6L,4.5b
AZER V 29 11 02 05.1–.37 37.35N 42.49E 24–15 4.6L,4.5b
MOS V 29 11 02 05.4–1.2 37.28N 42.57E 12 4.5b,4.5b
ISK V 29 11 02 05.5 37.41N 42.57E 11 4.6L,4.5b
CSEM V 29 11 02 06.3–.12 37.36N 42.66E 10 4.5b,4.5b
TEH V 29 11 02 11.2 37.31N 42.75E 20 4.6L,4.5b
ISN V 29 11 02 18.4–1.2 36.79N 42.97E 0–3 4.5L,4.5b
DDA V 29 11 02 29.6 37.22N 42.56E 11 4.6L,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=14.9km s-min=10.4km az=5.0.
NSSC Error ellipse: s-maj=17.2km s-min=26.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=162.4.
NEIC Event type fe. Felt at Sirnak, Turkey. After ISK.
AZER Error ellipse: s-maj=12.3km s-min=2.3km az=52.0.
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=98.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=166.0.
ISN Error ellipse: s-maj=6.0km s-min=6.4km az=-1.0.
DDA Event type ke.

(224) Hokkaido region

ISC V 29 11 29 46.5–.90 42.09N–.05 141.52E–.06 93–6 3.9b 25 0-78
ISCJB V 29 11 29 45.7–.58 42.09N–.05 141.51E–.07 99–4 3.8b ¶17204696
JMA V 29 11 29 47.1–.10 42.12N 141.50E 88–2 3.8
IDC V 29 11 29 49.5–7.0 42.83N 140.35E 62–49 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.4km az=33.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=118.4km s-min=41.0km az=155.0.

(228) Near east coast of eastern Honshu

ISC V 29 11 41 39.5–1.1 36.80N–.03 140.60E–.04 6–7 3.6b 27 0-91
NIED V 29 11 41 00 36.80N 140.60E 5 3.8W ¶17204697
ISCJB V 29 11 41 38.8–.60 36.78N–.03 140.65E–.05 14–4 3.5b
IDC V 29 11 41 38.2–.79 36.64N 140.61E 0 3.8,3.6
JMA V 29 11 41 39.3 36.81N 140.57E 6–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ16.00000°,λ-124.00000°. NP2:ϕ_s205.00000°,δ77.00000°,λ-81.00000°. M_o5.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.4km az=28.4.
IDC Error ellipse: s-maj=21.6km s-min=17.7km az=120.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ74.00000°,λ-80.00000°. NP2:ϕ_s350.00000°,δ19.00000°,λ-121.00000°. Principal axes: T Plg28.0000°,Azm284.0000°; N Plg10.0000°,Azm19.0000°; P Plg60.0000° ,Azm126.0000°

(228) Near east coast of eastern Honshu

JMA V 29 13 39 54.8–.10 35.71N 140.67E 48–1 3.1 ¶600625915
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(280) Banda Sea

ISC V 29 13 44 20.6–.25 6.59S–.03 129.89E–.04 146 5.0b 368 2-151
BJI V 29 13 44 17.6 6.89S 129.78E 147 5.0b,4.9b ¶16551507
ISCJB V 29 13 44 19.4–.14 6.64S–.02 129.83E–.02 146 4.9b,4.9b
MOS V 29 13 44 19.8–.81 6.58S 129.76E 148 5.0b,4.9b
IDC V 29 13 44 21.3–1.7 6.60S 129.78E 146–15 4.9,4.6
NEIC V 29 13 44 21.2–.34 6.60S 129.79E 149–3 5.2b,4.6
GCMT V 29 13 44 21.2–.30 6.55S 129.89E 162–3 5.0W,4.6
DJA V 29 13 44 23.4–.30 7S–3.0 130E–2.0 164–3 5.8,5.5b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Darwin, Australia.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c22; s65,c96;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.41±.18 $M_{\theta\theta}$-3.83±.16; $M_{\phi\phi}$3.42±.18; $M_{r\theta}$0.83±.14; $M_{\theta\phi}$0.63±.18; $M_{\phi r}$2.16±.15; Best double couple: NP1:ϕ_s52.00000°,δ78.00000°,λ27.00000°. NP2:ϕ_s316.00000°,δ63.00000°,λ166.00000°. Principal axes: T 4.6530,Plg28.0000°,Azm277.0000°; N -0.6590,Plg60.0000°,Azm75.0000° ; P -3.9930,Plg10.0000°,Azm182.0000° M_o4.32300×10^{16}

(273) Southwest of Sumatera

ISC V 29 18 24 02.8–.38 7.72S–.03 101.78E–.03 21–4 5.4b,5.4s 803 3-178
BJI V 29 18 23 59.0 7.80S 101.70E 10 5.8s,5.6 ¶16551537
ISCJB V 29 18 24 00.5–.61 7.69S–.02 101.76E–.02 13–3 5.3s,5.3b
IDC V 29 18 24 00.0–.34 7.68S 101.76E 0 5.1,5.1
NEIC V 29 18 24 01.2–.26 7.72S 101.76E 13 6.4,5.9W
NEIC V 29 18 24 01.0–.00 7.75S 101.75E 15 6.4,5.9W
DJA V 29 18 24 01.8–.30 8S–3.0 102E–3.0 10 6.6,6.0b
GCMT V 29 18 24 01.2–.10 7.77S 101.71E 28–0 5.9W,6.0b
MOS V 29 18 24 04.0–1.4 7.46S 101.87E 33 5.4b,5.2s
KLM V 29 18 24 06.3 7.60S 101.64E 42 6.5s,6.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=15.0.
IDC Error ellipse: s-maj=11.4km s-min=9.9km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.1km az=223.0. Felt [II] at Lampung. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}0.55 $M_{\theta\theta}$5.26 $M_{\phi\phi}$-5.82 $M_{r\theta}$0.88 $M_{\theta\phi}$2.67 $M_{\phi r}$0.71 Best double couple: NP1:ϕ_s123.00000°,δ80.00000° ,λ5.00000°. NP2:ϕ_s32.00000°,δ86.00000°,λ170.00000°. Principal axes: T 6.0600,Plg11.0000°,Azm347.0000°; N 0.4000,Plg79.0000°,Azm188.0000° ; P -6.4600,Plg4.0000°,Azm77.0000° M_o6.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s228.00000°,δ62.00000°,λ139.00000°. NP2: ϕ_s340.00000°,δ55.00000°,λ35.00000°. Principal axes: T Plg48.0000°,Azm191.0000° ; N Plg0.0000°,Azm0.0000°; P Plg4.0000°,Azm286.0000°
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}0.40 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-0.80 $M_{r\theta}$-2.70 $M_{\theta\phi}$-6.60 $M_{\phi r}$4.10 Best double couple: NP1:ϕ_s359.00000° ,δ78.00000°,λ29.00000°. NP2:ϕ_s263.00000°,δ60.00000°,λ167.00000°. Principal axes: T 9.1000,Plg28.0000°,Azm224.0000°; N -1.9000,Plg58.0000°,Azm18.0000° ; P -7.1000,Plg11.0000°,Azm128.0000° M_o8.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c249; s130,c413;Duration: 2s1 Moment tensor: Scale 10^{17} Nm; M_{rr}0.17±.06 $M_{\theta\theta}$0.37±.05; $M_{\phi\phi}$-0.53±.06; $M_{r\theta}$-0.25±.11; $M_{\theta\phi}$-7.60±.05; $M_{\phi r}$0.68±.12; Best double couple: NP1:ϕ_s358.00000°,δ88.00000°,λ5.00000°. NP2:ϕ_s268.00000° ,δ85.00000°,λ178.00000°. Principal axes: T 7.5860,Plg5.0000°,Azm223.0000° ; N 0.1240,Plg84.0000°,Azm18.0000°; P -7.7100,Plg2.0000°,Azm133.0000° M_o7.64800×10^{17}
MOS Error ellipse: s-maj=8.7km s-min=4.6km az=109.2.

(228) Near east coast of eastern Honshu

ISC V 29 18 32 13.0–1.5 39.06N–.04 142.44E–.06 18–7 4.1b 35 1-73
NIED V 29 18 32 00 39.10N 142.50E 29 3.9W ¶17204715
JMA V 29 18 32 14.2–.10 39.12N 142.47E 32–1 4.3
IDC V 29 18 32 19.2–3.8 38.97N 142.38E 75–35 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ30.00000°,λ-104.00000°. NP2:ϕ_s163.00000°,δ61.00000°,λ-82.00000°. M_o7.68000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.3km s-min=16.5km az=96.0.

(227) Eastern Honshu

ISC V 29 21 55 15.4–1.0 37.67N–.04 139.94E–.03 11–7 3.6b 26 0-78
NIED V 29 21 55 00 37.70N 139.90E 5 3.8W ¶17204727
ISCJB V 29 21 55 14.8–.63 37.70N–.04 139.94E–.03 12–4 3.5b
JMA V 29 21 55 15.5 37.67N 139.94E 8–1 3.6
IDC V 29 21 55 22.3–2.9 37.64N 139.75E 66–27 3.6,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ36.00000°,λ148.00000°. NP2:ϕ_s10.00000°,δ71.00000°,λ58.00000°. M_o4.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=166.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s8.00000°,δ66.00000°,λ55.00000°. NP2:ϕ_s247.00000°,δ41.00000°,λ142.00000°. Principal axes: T Plg55.0000°,Azm233.0000°; N Plg31.0000°,Azm23.0000°; P Plg14.0000° ,Azm122.0000°
IDC Error ellipse: s-maj=28.1km s-min=16.2km az=88.0.

(173) Tonga Islands

ISC V 30 00 06 27.8–.28 15.19S–.06 173.41W–.07 30 5.2b,4.7s 661 2-175
IDC V 30 00 06 23.1–.43 15.24S 173.44W 0 4.9,4.8 ¶16551547
NEIC V 30 00 06 24.7–.14 15.18S 173.56W 10 5.3b,4.8
GCMT V 30 00 06 24.7–.30 15.14S 173.35W 12 5.3W,4.8
MOS V 30 00 06 26.5–1.0 15.16S 173.54W 32 5.3b,4.7s
ISCJB V 30 00 06 26.1–.12 15.26S–.04 173.56W–.04 30 5.1b,4.6s

BJI V 30 00 06 27.1 15.27S 173.57W 30 5.5b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.3km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=3.5km az=125.0. Felt at Afono, American Samoa and at Apia, Samoa.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c13; s76,c95; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.00±.01 $M_{\theta\theta}$0.15±.01; $M_{\phi\phi}$-0.14±.01; $M_{r\theta}$-0.92±.04; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.53±.03; Best double couple: NP1:ϕ_s121.00000°,δ89.00000°,λ-83.00000°. NP2:ϕ_s216.00000°,δ8.00000°,λ-174.00000°. Principal axes: T 1.0960,Plg44.0000°,Azm203.0000°; N -0.0510,Plg7.0000°,Azm300.0000°; P -1.0450,Plg45.0000°,Azm38.0000° $M_0$1.07000×10^{17}
MOS Error ellipse: s-maj=13.7km s-min=7.9km az=61.9.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.2km az=135.4.

(160) Off east coast of North Island

ISC	**V**	**30 00 42 30.7–.61**	**38.14S–.04**	**178.07E–.04**	**69–5**	**4.7b**	**245**	**0-178**
IDC	V	30 00 42 27.3–6.5	37.49S	177.98E	32–45	4.5,4.5		¶16560174
ISCJB	V	30 00 42 29.1–.35	38.14S–.02	178.12E–.04	73–2	4.5b,4.5		
NEIC	V	30 00 42 30.6	38.04S	178.07E	66	4.8W,4.7b		
WEL	V	30 00 42 30.5–.25	38.04S	178.08E	67–2	5.5L,4.7b		

ISC Event type fe.
IDC Error ellipse: s-maj=27.8km s-min=17.7km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=5.9.
NEIC Event type fe. Felt at Gisborne and in the Bay of Plenty area. After WEL. Moment Tensor Solution. s25 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.12 $M_{\theta\theta}$-1.47 $M_{\phi\phi}$1.59 $M_{r\theta}$-0.85 $M_{\theta\phi}$0.97 $M_{\phi r}$0.54 Best double couple: NP1:ϕ_s153.00000°,δ79.00000°,λ-155.00000°. NP2:ϕ_s58.00000°,δ66.00000°,λ-12.00000°. Principal axes: T 1.9200,Plg9.0000°,Azm284.0000°; N 0.2800,Plg63.0000°,Azm176.0000°; P -2.2000,Plg25.0000°,Azm18.0000° $M_0$2.10000×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt between Bay of Plenty, Wellington and Gisborne, maximum reported. intensity MM 5.

(228) Near east coast of eastern Honshu

JMA	**V**	**30 01 12 42.5–.10**	**38.74N**	**142.24E**	**33–2**	**4.0**		
								¶600626221

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 03 14 22.4–1.1**	**35.54N–.06**	**140.11E–.08**	**65–9**	**3.4b**	**16**	**0-59**
ISCJB	V	30 03 14 21.5–.75	35.50N–.06	140.1E–.10	77–7	3.5b		¶17204737
JMA	V	30 03 14 22.2–.20	35.59N	140.12E	63–2	2.8		
IDC	V	30 03 14 24.2–1.9	35.42N	140.07E	82–16	3.5,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=8.6km az=157.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=7.2km az=69.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 05 21 35.9–2.0**	**37.32N–.04**	**141.32E–.08**	**6–11**	**3.6b**	**23**	**0-57**
IDC	V	30 05 21 33.9–2.1	37.37N	141.52E	0	3.5,3.4b		¶600626337
ISCJB	V	30 05 21 36.3–1.3	37.31N–.04	141.37E–.08	17–8	3.3b,3.0s		
JMA	V	30 05 21 39.4–.10	37.34N	141.14E	27–1	3.7,3.0s		

ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=31.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.9km az=11.9.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**V**	**30 05 28 14.6–.10**	**35.51N**	**140.12E**	**23–1**	**3.0**		
								¶17204740

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 05 28 37.2–1.1**	**36.94N–.03**	**140.80E–.05**	**19–3**	**3.1b**	**23**	**0-64**
IDC	V	30 05 28 34.0–1.4	37.02N	140.99E	0	3.8L,3.5		¶600626343
ISCJB	V	30 05 28 36.4–.83	36.93N–.03	140.90E–.06	19–5	3.2b,3.5		
JMA	V	30 05 28 37.9	36.96N	140.73E	14–1	3.7,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=34.9km s-min=24.8km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.8km az=20.1.
JMA Event type fe.

(259) Mindanao

MAN	**V**	**30 05 47 53**	**8.72N**	**123.34E**	**17**	**4.1b,2.9L**		
								¶601650925

MAN Event type fe. INTENSITY III - DIPOLOG CITY.

(228) Near east coast of eastern Honshu

JMA	**V**	**30 06 34 56.2–.10**	**38.66N**	**142.07E**	**43–1**	**3.6**		
								¶600626365

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**V**	**30 06 41 51.9–.10**	**38.35N**	**141.94E**	**15–1**	**4.0**		
								¶600626370

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(268) Sulawesi

ISC	**V**	**30 09 45 55.2–1.3**	**4.04S–.06**	**122.60E–.06**	**10–9**	**4.2b,3.1s**	**23**	**0-76**
IDC	V	30 09 45 54.0–1.4	3.98S	122.70E	0	4.2,4.1		¶16702288
ISCJB	V	30 09 45 54.7–.90	4.05S–.05	122.63E–.06	17–8	4.1b,3.2s		
DJA	V	30 09 45 55.9–.30	4S–3.0	123E–3.0	10	4.3,4.3		
NEIC	V	30 09 45 56.9–3.3	4.01S	122.63E	20–27	4.0b,4.3		

ISC Event type fe.
IDC Error ellipse: s-maj=34.7km s-min=21.1km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=8.2km az=160.0.
NEIC Event type fe. Error ellipse: s-maj=17.1km s-min=8.9km az=64.0. Felt [II] at Kendari.

(159) North Island

WEL	**V**	**30 10 31 15.9–.16**	**40.34S**	**176.78E**	**30–1**	**3.7L**		
								¶16551571

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Hawke"s Bay region, maximum reported intensity MM 4.

(256) Leyte

MAN	**V**	**30 10 58 26**	**11.15N**	**124.88E**	**113**	**4.6b,3.5L**		
								¶601650926

MAN Event type fe. INTENSITY II - ORMOC CITY.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 12 24 04.2–1.6**	**37.34N–.04**	**141.38E–.06**	**5–9**	**4.0b**	**44**	**0-147**
NIED	V	30 12 24 00	37.30N	141.40E	14	3.9W		¶16551574
IDC	V	30 12 24 03.3–.62	37.28N	141.45E	0	4.1,3.9		
ISCJB	V	30 12 24 04.8–.97	37.30N–.03	141.45E–.06	19–6	3.9b,3.9		
JMA	V	30 12 24 06.3–.10	37.33N	141.36E	30–1	3.8,3.9		
NEIC	V	30 12 24 08.7–.48	37.31N	141.41E	35	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ28.00000°,λ-101.00000°. NP2:ϕ_s232.00000°,δ63.00000°,λ-84.00000°. $M_0$9.43000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=14.7km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.9km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.3km s-min=8.4km az=135.0. Recorded [1 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 13 40 08.3–.98**	**40.88N–.05**	**142.05E–.07**	**57**	**3.6b**	**20**	**1-66**
ISCJB	V	30 13 40 07.0–.71	40.87N–.04	142.14E–.08	57	3.7b		¶17204766
JMA	V	30 13 40 07.9–.10	40.91N	142.13E	50–3	3.3		
IDC	V	30 13 40 08.0–5.2	40.84N	141.98E	55–59	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.1km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=60.7km s-min=22.7km az=71.0.

(125) Southern Bolivia

ISC	**V**	**30 17 28 46.6–.45**	**19.85S–.03**	**66.98W–.04**	**244–4**	**4.7b**	**774**	**2-167**
SCB	V	30 17 28 44.0–.20	19.64S	66.56W	240	4.9L		¶16551583
ISCJB	V	30 17 28 44.2–.28	19.70S–.03	66.79W–.03	233–3	4.7b		
MOS	V	30 17 28 46.6–1.2	19.67S	66.79W	247	4.7b		
GUC	V	30 17 28 46.6–.57	19.97S	67.64W	285–7	5.6L		
IDC	V	30 17 28 47.9–.63	19.70S	66.78W	252–5	4.8,4.3		
NEIC	V	30 17 28 48.0–.16	19.73S	66.66W	252	4.8b,4.3		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=10.2km s-min=4.5km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=143.0.
MOS Error ellipse: s-maj=19.2km s-min=6.7km az=117.7.
GUC Error ellipse: s-maj=2.8km s-min=9.6km az=-1.0.
IDC Error ellipse: s-maj=12.0km s-min=7.9km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=55.0. Felt at Iquique and Tocopilla, Chile.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 18 23 54.9–1.3**	**39.62N–.04**	**142.02E–.09**	**45–8**		**23**	**0-43**
ISCJB	V	30 18 23 54.1–.91	39.63N–.04	142.1E–.10	51–6	3.5b		¶17204776
JMA	V	30 18 23 54.2	39.64N	142.11E	48–1	3.3		
IDC	V	30 18 23 56.1–3.7	40.13N	140.89E	0	3.7b,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=5.6km az=7.5.
JMA Event type fe.
IDC Error ellipse: s-maj=75.8km s-min=33.1km az=110.0.

(227) Eastern Honshu

ISC	**V**	**30 18 34 51.9–.84**	**38.62N–.05**	**141.05E–.06**	**93–6**	**3.6b**	**36**	**0-62**
ISCJB	V	30 18 34 50.8–.50	38.61N–.04	141.05E–.06	99–3	3.5b		¶17204778
JMA	V	30 18 34 52.0	38.62N	141.00E	92–1	3.3		
IDC	V	30 18 34 52.8–2.2	38.59N	141.05E	107–20	3.6,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.7km az=28.4.
JMA Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=15.9km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 19 36 39.4–.48**	**36.50N–.03**	**140.92E–.03**	**28–2**	**4.9b,4.2s**	**488**	**0-152**
NIED	V	30 19 36 00	36.50N	140.90E	5	4.7W,4.2s		¶16551585
IDC	V	30 19 36 35.1–.44	36.48N	140.85E	0	4.7,4.6		
JMA	V	30 19 36 36.8–.10	36.51N	140.93E	15–1	5.0,4.6		
ISCJB	V	30 19 36 37.5–.50	36.48N–.03	140.84E–.02	23–3	4.8b,4.2s		
MOS	V	30 19 36 39.0–1.3	36.55N	140.86E	33	5.0b,4.5s		
NEIC	V	30 19 36 41.5–.60	36.47N	140.76E	42–5	4.9b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ33.00000°,λ-50.00000°. NP2:ϕ_s153.00000°,δ65.00000°,λ-113.00000°. $M_0$1.48000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=113.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ56.00000°,λ-49.00000°. NP2:ϕ_s172.00000°,δ51.00000°,λ-134.00000°. Principal axes: T Plg3.0000°,Azm112.0000°; N Plg33.0000°,Azm204.0000°; P Plg57.0000°,Azm17.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=154.2.
MOS Error ellipse: s-maj=6.3km s-min=4.4km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=143.0. Felt at Akiruno and Tsukuba. Recorded [3 JMA] in Ibaraki and Tochigi.

(162) South Island

WEL	**V**	**30 20 26 37.6–.10**	**43.57S**	**172.32E**	**9–1**	**3.5L**		
								¶601006279

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**V**	**30 20 39 18.4–1.1**	**36.79N–.04**	**140.55E–.05**	**10–9**	**3.6b**	**20**	**0-91**
NIED	V	30 20 39 00	36.80N	140.60E	5	3.6W		¶17204785
IDC	V	30 20 39 16.9–1.3	36.75N	140.56E	0	3.8,3.6		
ISCJB	V	30 20 39 18.0–.68	36.78N–.04	140.65E–.06	19–5	3.5b,3.6		
JMA	V	30 20 39 18.7	36.81N	140.56E	7–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ42.00000°,λ-110.00000°. NP2:ϕ_s168.00000°,δ51.00000°,λ-73.00000°. $M_0$2.46000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=24.6km az=4.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.5km az=38.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ50.00000°,λ-103.00000°. NP2:ϕ_s150.00000°,δ42.00000°,λ-75.00000°. Principal axes: T Plg4.0000°,Azm49.0000°; N Plg10.0000°,Azm318.0000°; P Plg79.0000°,Azm161.0000°

(274) Southern Sumatera

ISC	**V**	**30 23 33 31.6–1.4**	**1.58S–.04**	**101.08E–.04**	**6–8**	**4.2b**	**67**	**1-145**
ISCJB	V	30 23 33 31.8–.97	1.66S–.04	101.09E–.04	19–6	4.2b,2.9s		¶16702351
IDC	V	30 23 33 31.1–.87	1.66S	101.07E	0	3.9,3.8		
DJA	V	30 23 33 33.9–.30	2S–3.0	101E–2.0	10	4.8b,4.7b		
NEIC	V	30 23 33 35.4–.60	1.65S	101.19E	35	4.7b,4.7b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=39.6.
IDC Error ellipse: s-maj=47.1km s-min=17.9km az=54.0.
NEIC Event type fe. Error ellipse: s-maj=18.1km s-min=11.2km az=52.0. Felt [III] at Muaralabuh and Solok; [II] at Padang.

(229) Off east coast of Honshu

ISC	**V**	**30 23 53 44.6–.73**	**40.32N–.04**	**143.31E–.04**	**32–4**	**5.0s,4.9b**	**446**	**1-154**
NIED	V	30 23 53 00	40.30N	143.40E	20	5.1W,4.9b		¶16551594
JMA	V	30 23 53 39.9–.20	40.26N	143.38E	10–2	5.0,4.9b		
IDC	V	30 23 53 39.0–.55	40.25N	143.28E	0	4.7,4.7		
ISCJB	V	30 23 53 42.0–.84	40.32N–.03	143.26E–.04	24–5	4.9s,4.8b		
MOS	V	30 23 53 44.1–.94	40.39N	143.23E	39	5.2b,5.2s		
NEIC	V	30 23 53 45.5–.61	40.29N	143.21E	39–5	4.9b,5.2s		
GCMT	V	30 23 53 45.5–.20	40.33N	143.52E	31–0	5.1W,5.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ21.00000°,λ56.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ102.00000°. $M_0$5.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=13.2km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.1km az=36.0.
MOS Error ellipse: s-maj=7.7km s-min=4.2km az=108.1.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=125.0. Recorded [2 JMA] in Aomori.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c74; s92,c153; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.89±.20 $M_{\theta\theta}$-0.34±.12; $M_{\phi\phi}$-4.55±.13; $M_{r\theta}$1.25±.17; $M_{\theta\phi}$-0.34±.08; $M_{\phi r}$4.11±.16; Best double couple: NP1:ϕ_s13.00000°,δ66.00000°,λ96.00000°. NP2:ϕ_s178.00000°,δ25.00000°,λ77.00000°. Principal axes: T 6.5890,Plg68.0000°,Azm294.0000°; N -0.3990,Plg5.0000°,Azm190.0000°; P -6.1880,Plg21.0000°,Azm98.0000° $M_0$6.38900×10^{16}

(85) Cuba region

ISC	**V**	**31 00 12 02.0–.69**	**19.84N–.07**	**75.48W–.04**	**30**	**4.9b**	**28**	**0-37**
ISCJB	V	31 00 12 00.5–.41	19.85N–.05	75.47W–.03	30	4.9b		¶16587343
NEIC	V	31 00 12 02.2–1.1	19.84N	75.45W	29–9	4.5b		
JSN	V	31 00 12 03.0–.89	19.86N	75.55W	25–296	4.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=3.7km az=158.8.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=8.1km az=201.0. Felt [III] at Guantanamo.
JSN Error ellipse: s-maj=104.0km s-min=97.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 07 12 19.7–1.2**	**37.19N–.04**	**141.15E–.07**	**28–7**	**3.7b**	**31**	**0-147**
NIED	V	31 07 12 00	37.20N	141.10E	35	3.8W		¶17204813
ISCJB	V	31 07 12 18.1–.99	37.17N–.04	141.27E–.06	23–5	3.7b,3.2s		
JMA	V	31 07 12 20.2–.10	37.20N	141.09E	32–1	3.9,3.2s		
IDC	V	31 07 12 25.7–3.1	37.08N	140.86E	75–27	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ12.00000°,λ-77.00000°. NP2:ϕ_s238.00000°,δ79.00000°,λ-93.00000°. $M_0$6.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.4km az=25.2.
JMA Event type fe.
IDC Error ellipse: s-maj=26.2km s-min=21.8km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 07 50 13.6–1.0**	**36.24N–.03**	**141.01E–.04**	**29–7**	**4.3b,3.5s**	**127**	**1-147**
NIED	V	31 07 50 00	36.20N	141.00E	41	4.3W,3.5s		¶16560237
ISCJB	V	31 07 50 13.2–.55	36.28N–.03	141.02E–.04	37–4	4.3b,3.5s		
JMA	V	31 07 50 13.2–.10	36.22N	141.00E	45–1	4.4,3.5s		
NEIC	V	31 07 50 16.6–.57	36.43N	140.87E	45–5	4.6b,3.5s		
IDC	V	31 07 50 16.9–1.7	36.20N	140.94E	58–15	4.1,4.0		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ13.00000°,λ34.00000°. NP2:ϕ_s13.00000°,δ83.00000°,λ101.00000°. $M_0$3.33000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.6km az=23.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=143.0. Felt at Narita and Tsukuba. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=13.9km s-min=8.8km az=70.0.

(224) Hokkaido region

ISC	**V**	**31 07 56 45.4–.91**	**42.82N–.06**	**145.30E–.04**	**51–7**	**4.1b**	**105**	**0-89**
NIED	V	31 07 56 00	42.60N	145.40E	35	4.0W		**¶17204815**
JMA	V	31 07 56 42.4–.10	42.64N	145.37E	47–2	3.9		
ISCJB	V	31 07 56 43.9–.58	42.78N–.05	145.33E–.05	56–4	4.3s,4.1b		
MOS	V	31 07 56 44.3–1.5	42.93N	145.23E	51	4.4b,4.1b		
SKHL	V	31 07 56 45.0–.10	42.83N	145.26E	61–5	5.3b,4.7s		
IDC	V	31 07 56 51.1–2.4	43.23N	145.15E	84–20	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ31.00000°,λ53.00000°. NP2:ϕ_s44.00000°,δ66.00000°,λ110.00000°. $M_0$1.21000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.4km az=149.2.
MOS Error ellipse: s-maj=10.2km s-min=6.2km az=86.0.
IDC Error ellipse: s-maj=21.5km s-min=14.5km az=162.0.

(162) South Island

WEL	**V**	**31 08 08 55.6–.07**	**43.56S**	**172.63E**	**8–0**	**3.6L**		**¶16551672**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(259) Mindanao

MAN	**V**	**31 10 59 42**	**8.82N**	**123.43E**	**58**	**4.2b,3.0L**		**¶601650931**

MAN Event type fe. INTENSITY III - DIPOLOG CITY; INTENSITY II - LINGASAD ZAMBOANGA DEL NORTE.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 12 28 35.5–.36**	**39.36N–.03**	**142.03E–.03**	**46–2**	**5.3b,5.0s**	**1213**	**0-159**
NIED	V	31 12 28 00	39.40N	142.10E	50	5.4W,5.0s		**¶16552288**
BJI	V	31 12 28 31.0	39.22N	142.39E	45	5.3b,5.0b		
MOS	V	31 12 28 33.6–.88	39.43N	141.79E	36	5.5b,5.0s		
JMA	V	31 12 28 35.7	39.34N	142.06E	48–1	5.3,5.0s		
ISCJB	V	31 12 28 35.8–.23	39.39N–.02	141.91E–.02	58–1	5.2b,4.8s		
IDC	V	31 12 28 36.7–1.6	39.33N	141.98E	59–14	4.7s,4.7		
NEIC	V	31 12 28 38.3–.43	39.41N	141.79E	65–3	5.3b,4.7		
GCMT	V	31 12 28 38.3–.10	39.40N	142.09E	49–0	5.4W,4.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ101.00000°. $M_0$1.31000×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=104.7.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=154.5.
IDC Error ellipse: s-maj=12.7km s-min=9.4km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=148.0. Felt at Ichinoseki and Misawa. Recorded [4 JMA] in Iwate.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c174; s121,c228; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.03 $M_{\theta\theta}$-0.17±.02; $M_{\phi\phi}$-1.11±.02; $M_{r\theta}$0.55±.02; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$0.99±.02; Best double couple: NP1:ϕ_s24.00000°,δ66.00000°,λ97.00000°. NP2:ϕ_s187.00000°,δ25.00000°,λ74.00000°. Principal axes: T 1.7370,Plg68.0000°,Azm307.0000°; N -0.1380,Plg7.0000°,Azm201.0000°; P -1.5960,Plg21.0000°,Azm109.0000° $M_0$1.66700×10^{17}

(297) Myanmar-China border region

ISC	**V**	**31 13 13 39.5–.36**	**24.98N–.04**	**98.76E–.03**	**17**	**4.3b,3.7s**	**160**	**4-89**
BJI	V	31 13 13 37.0	25.04N	98.70E	11	4.7L,4.6b		**¶16552290**
IDC	V	31 13 13 37.2–.53	25.04N	98.86E	0	4.2,4.2L		
ISCJB	V	31 13 13 38.2–.20	25.03N–.02	98.74E–.03	17	4.3b,3.7s		
MOS	V	31 13 13 39.8–1.1	25.01N	98.71E	30	4.6b,3.7s		
NEIC	V	31 13 13 42.3–1.8	25.06N	98.79E	34–13	4.7b,3.7s		
BKK	V	31 13 14 01.3–4.4	24N–36	99E–13	10	4.7,4.6b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Dali, China.

(229) Off east coast of Honshu

ISC	**V**	**31 16 26 11.1–.41**	**40.25N–.03**	**143.31E–.03**	**31–2**	**5.0b,4.9s**	**549**	**1-148**
NIED	V	31 16 26 00	40.20N	143.30E	20	5.0W,4.9s		**¶16552293**
IDC	V	31 16 26 06.4–.49	40.25N	143.38E	0	4.7,4.6		
JMA	V	31 16 26 07.9–.10	40.25N	143.35E	12–2	5.1,4.6		
ISCJB	V	31 16 26 08.7–.73	40.27N–.02	143.32E–.03	22–5	4.9b,4.8s		
MOS	V	31 16 26 10.4–1.2	40.32N	143.25E	33	5.2b,5.0s		
GCMT	V	31 16 26 12.4–.30	40.33N	143.51E	32–1	5.0W,5.0s		
NEIC	V	31 16 26 12.4–.59	40.25N	143.22E	39–5	4.9b,5.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ17.00000°,λ43.00000°. NP2:ϕ_s33.00000°,δ79.00000°,λ103.00000°. $M_0$3.87000×10^{16}
IDC Error ellipse: s-maj=13.6km s-min=11.4km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=136.9.
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=110.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c36; s75,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.12±.21 $M_{\theta\theta}$-0.40±.12; $M_{\phi\phi}$-2.72±.13; $M_{r\theta}$1.13±.14; $M_{\theta\phi}$-0.54±.07; $M_{\phi r}$2.76±.15; Best double couple: NP1:ϕ_s19.00000°,δ68.00000°,λ95.00000°. NP2:ϕ_s187.00000°,δ23.00000°,λ79.00000°. Principal axes: T 4.3730,Plg67.0000°,Azm297.0000°; N -0.3180,Plg4.0000°,Azm197.0000°; P -4.0550,Plg22.0000°,Azm106.0000° $M_0$4.21400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.3km az=135.0. Recorded [2 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 16 41 19.3–1.6**	**37.65N–.05**	**141.8E–.10**	**45–14**	**3.9b**	**49**	**1-146**
NIED	V	31 16 41 00	37.70N	141.70E	68	4.1W		**¶600627276**
ISCJB	V	31 16 41 18.0–.85	37.66N–.04	141.89E–.07	49–7	3.9b,3.8s		
JMA	V	31 16 41 19.6	37.66N	141.76E	44–2	4.2,3.8s		
IDC	V	31 16 41 23.2–2.4	37.67N	141.69E	81–22	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ34.00000°,λ91.00000°. NP2:ϕ_s203.00000°,δ56.00000°,λ89.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=22.5.
JMA Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=13.4km az=105.0.

(229) Off east coast of Honshu

ISC	**V**	**31 17 15 16.9–.78**	**38.90N–.05**	**142.00E–.07**	**45–5**	**4.3b,3.4s**	**81**	**0-81**
NEIC	V	31 17 14 38.6–.91	36.63N	146.46E	10	4.8b,3.4s		**¶17204836**
NIED	V	31 17 15 00	38.90N	142.00E	50	4.2W,3.4s		
ISCJB	V	31 17 15 16.5–.66	38.89N–.03	142.01E–.07	57–3	4.2b,3.2s		
JMA	V	31 17 15 17.1–.10	38.88N	142.00E	50–1	4.1,3.2s		
IDC	V	31 17 15 19.5–1.1	38.91N	141.95E	68–7	3.9,3.7		

ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=16.3km s-min=14.4km az=130.0. Recorded [2 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ25.00000°,λ56.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ105.00000°. $M_0$2.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=4.6km az=20.8.
JMA Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=9.6km az=118.0.

(227) Eastern Honshu

ISC	**V**	**31 18 48 25.6–1.1**	**37.01N–.04**	**140.79E–.05**	**10–7**	**3.5b**	**21**	**0-64**
IDC	V	31 18 48 23.9–1.5	37.00N	140.86E	0	3.6,3.5		**¶17204840**
ISCJB	V	31 18 48 24.4–.94	36.98N–.04	140.91E–.07	16–6	3.5b,3.0s		
JMA	V	31 18 48 25.8	37.01N	140.72E	8–1	3.5,3.0s		

ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=22.2km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.0km az=26.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ72.00000°,λ-94.00000°. NP2:ϕ_s76.00000°,δ18.00000°,λ-78.00000°. Principal axes: T Plg27.0000°,Azm337.0000°; N Plg4.0000°,Azm245.0000°; P Plg63.0000°,Azm148.0000°

(207) Eastern New Guinea region

ISC	**V**	**31 19 08 16.5–.35**	**5.65S–.04**	**146.76E–.06**	**100**	**4.5b**	**94**	**4-154**
ISCJB	V	31 19 08 14.6–.29	5.57S–.03	146.81E–.05	100	4.4b		**¶16577362**
NEIC	V	31 19 08 18.6–.61	5.61S	146.76E	126–6	4.7b		
IDC	V	31 19 08 19.3–2.5	5.58S	146.77E	130–23	4.6,4.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.5km az=176.9.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.8km az=101.0. Felt at Kainantu and Lae.
IDC Error ellipse: s-maj=17.5km s-min=11.0km az=91.0.

(162) South Island

WEL	**V**	**31 19 25 04.1–.13**	**43.59S**	**172.73E**	**7–0**	**3.6L**		**¶16552972**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(227) Eastern Honshu

ISC	**V**	**31 21 23 27.1–1.1**	**37.09N–.04**	**140.84E–.05**	**5–6**	**3.5b**	**23**	**0-57**
IDC	V	31 21 23 25.1–1.8	36.97N	141.01E	0	3.4,3.4		**¶16552787**
ISCJB	V	31 21 23 26.2–.94	37.10N–.03	140.92E–.06	4–4	3.4b,3.4		
JMA	V	31 21 23 27.2	37.12N	140.84E	7–1	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=24.3km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.5km az=26.1.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 23 03 40.9–.86**	**35.54N–.06**	**141.13E–.09**	**33**	**3.6b**	**23**	**0-75**
NIED	V	31 23 03 00	35.60N	141.10E	44	3.9W		**¶17204854**
IDC	V	31 23 03 35.7–1.1	35.47N	141.33E	0	3.8,3.7		
ISCJB	V	31 23 03 38.6–.62	35.57N–.04	141.26E–.07	33	3.6b,3.4s		
JMA	V	31 23 03 40.6–.10	35.56N	141.03E	36–1	3.6,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ47.00000°,λ176.00000°. NP2:ϕ_s327.00000°,δ87.00000°,λ43.00000°. $M_0$8.63000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=17.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.5km az=5.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 23 19 58.6–1.1**	**36.74N–.06**	**140.63E–.05**	**9–7**	**4.0b**	**37**	**0-147**
NIED	V	31 23 19 00	36.70N	140.60E	5	3.9W		**¶16552793**
IDC	V	31 23 19 57.2–.66	36.72N	140.64E	0	4.1,3.9		
ISCJB	V	31 23 19 58.0–.65	36.67N–.03	140.72E–.05	18–4	3.9b,3.9		
JMA	V	31 23 19 59.3	36.73N	140.59E	8–1	3.8,3.9		
NEIC	V	31 23 20 03.1–1.6	36.73N	140.51E	41–14	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ40.00000°,λ-97.00000°. NP2:ϕ_s180.00000°,δ50.00000°,λ-84.00000°. $M_0$6.83000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=16.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=35.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s165.00000°,δ46.00000°,λ-97.00000°. NP2:ϕ_s355.00000°,δ44.00000°,λ-83.00000°. Principal axes: T Plg1.0000°,Azm260.0000°; N Plg5.0000°,Azm170.0000°; P Plg85.0000°,Azm1.0000°
NEIC Event type fe. Error ellipse: s-maj=13.0km s-min=9.1km az=86.0. Recorded [3 JMA] in Ibaraki.

(160) Off east coast of North Island

ISC	**V**	**31 23 45 15.7–1.5**	**37.99S–.04**	**177.62E–.05**	**87–9**		**160**	**0-151**
ISCJB	V	31 23 45 13.5–.68	37.96S–.03	177.79E–.06	110–5	4.0b		**¶16552974**
IDC	V	31 23 45 17.1–1.4	37.82S	176.56E	0	4.4,4.1		
WEL	V	31 23 45 18.4–.19	37.91S	177.57E	50–2	4.4L,4.1		
NEIC	V	31 23 45 18.4	37.91S	177.57E	50	4.4L,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.5km az=164.8.
IDC Error ellipse: s-maj=47.2km s-min=8.9km az=39.0.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=1.1km az=0.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Opotiki. After WEL.

(228) Near east coast of eastern Honshu

ISC	**V**	**31 23 53 57.7–.47**	**38.59N–.05**	**142.04E–.05**	**41**	**4.4b,3.4s**	**149**	**1-145**
NIED	V	31 23 53 00	38.60N	141.90E	50	4.3W,3.4s		**¶16577363**
ISCJB	V	31 23 53 56.1–.30	38.61N–.03	142.12E–.04	41	4.3b,3.5s		
MOS	V	31 23 53 59.0–.97	38.71N	141.90E	61	4.8b,3.5s		
JMA	V	31 23 53 59.0–.10	38.64N	141.91E	49–1	4.2,3.5s		
NEIC	V	31 23 54 00.1–.62	38.63N	142.00E	61–5	4.7b,3.5s		
IDC	V	31 23 54 01.1–2.1	38.63N	141.87E	68–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ20.00000°,λ62.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ100.00000°. $M_0$3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.4km az=42.4.
MOS Error ellipse: s-maj=9.8km s-min=6.4km az=105.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=5.0km az=128.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=16.2km s-min=13.7km az=117.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**01 00 54 57.0**	**36.83N**	**140.57E**	**6–1**	**3.7**		
NIED	VI	01 00 54 00	36.80N	140.60E	5	3.5W		**¶600627526**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ68.00000°,λ-76.00000°. NP2:ϕ_s325.00000°,δ26.00000°,λ-122.00000°. Principal axes: T Plg22.0000°,Azm259.0000°; N Plg13.0000°,Azm354.0000°; P Plg64.0000°,Azm113.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ20.00000°,λ-126.00000°. NP2:ϕ_s191.00000°,δ74.00000°,λ-78.00000°. $M_0$2.26000×10^{14}

(186) Vanuatu Islands

ISC	**VI**	**01 02 30 25.1–.30**	**18.18S–.05**	**168.19E–.05**	**32**	**4.9b,3.9s**	**291**	**4-166**
MOS	VI	01 02 30 24.9–1.2	18.21S	168.13E	43	5.1b,3.9s		**¶16552796**
ISCJB	VI	01 02 30 24.4–.16	18.14S–.04	168.09E–.03	32	4.8b,3.9s		
IDC	VI	01 02 30 27.3–2.6	18.20S	168.20E	54–23	5.1L,4.7		
BJI	VI	01 02 30 27.9	17.83S	168.65E	67	5.0b,5.0s		
GCMT	VI	01 02 30 27.0–.40	18.32S	168.09E	54–2	4.9W,5.0s		
NEIC	VI	01 02 30 27.0–1.3	18.17S	168.09E	46–11	5.0b,5.0s		

ISC Event type fe.
MOS Error ellipse: s-maj=9.8km s-min=8.3km az=175.1.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.2km az=158.4.
IDC Error ellipse: s-maj=13.8km s-min=12.6km az=40.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c32; s61,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.22±.27 $M_{\theta\theta}$0.05±.20; $M_{\phi\phi}$-2.27±.17; $M_{r\theta}$1.31±.14; $M_{\theta\phi}$1.63±.13; $M_{\phi r}$-0.99±.12; Best double couple: NP1:ϕ_s135.00000°,δ62.00000°,λ69.00000°. NP2:ϕ_s354.00000°,δ34.00000°,λ124.00000°. Principal axes: T 2.8460,Plg66.0000°,Azm7.0000°; N 0.6540,Plg18.0000°,Azm145.0000°; P -3.5000,Plg15.0000°,Azm240.0000° $M_0$3.17300×10^{16}
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.7km az=169.0. Felt [III] at Port-Vila.

(229) Off east coast of Honshu

ISC	**VI**	**01 03 14 13.1–.47**	**39.72N–.03**	**143.65E–.03**	**28–2**	**5.0s,4.8b**	**605**	**1-146**
NIED	VI	01 03 14 00	39.70N	143.80E	8	5.2W,4.8b		**¶16552797**
IDC	VI	01 03 14 09.2–.47	39.72N	143.67E	0	4.8,4.8s		
ISCJB	VI	01 03 14 10.6–.63	39.75N–.02	143.60E–.02	19–4	5.0s,4.8b		
JMA	VI	01 03 14 11.0–.20	39.78N	143.71E	33	5.1,4.8b		
BJI	VI	01 03 14 12.6	39.77N	143.45E	32	5.3s,5.2b		
MOS	VI	01 03 14 13.6–1.2	39.93N	143.52E	33	5.1b,5.2b		
NEIC	VI	01 03 14 14.4–.51	39.74N	143.57E	36–4	4.9b,5.2b		
GCMT	VI	01 03 14 14.4–.20	39.79N	143.84E	14–0	5.2W,5.2b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ32.00000°,λ59.00000°. NP2:ϕ_s28.00000°,δ63.00000°,λ108.00000°. $M_0$5.97000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=10.7km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=146.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=140.0. Recorded [1 JMA] in Iwate and Miyagi.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c101; s110,c206; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.48±.19 $M_{\theta\theta}$-0.07±.11; $M_{\phi\phi}$-5.41±.13; $M_{r\theta}$1.91±.25; $M_{\theta\phi}$-1.17±.07; $M_{\phi r}$5.97±.35; Best double couple: NP1:ϕ_s16.00000°,δ69.00000° ,λ93.00000°. NP2:ϕ_s187.00000°,δ21.00000°,λ81.00000°. Principal axes: T 8.3140,Plg66.0000°,Azm292.0000°; N 0.1440,Plg3.0000°,Azm195.0000° ; P -8.4540,Plg24.0000°,Azm104.0000° $M_0$8.38400×10^{16}

(603) Near southeast coast of Australia

ISC	**VI**	**01 03 29 03.8–1.0**	**37.36S–.07**	**142.43E–.06**	**10**		**29**	**1-19**
ISCJB	VI	01 03 29 02.8–.80	37.46S–.07	142.40E–.09	10			**¶16684504**
AUST	VI	01 03 29 04.3–.90	37.49S	142.43E	2–6			
NEIC	VI	01 03 29 04.0	37.49S	142.43E	2	3.8L		
IDC	VI	01 03 29 10.5–5.7	37.02S	141.34E	0	4.0,3.9L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.6km az=137.4.
AUST Error ellipse: s-maj=6.6km s-min=2.7km az=26.0.
NEIC Event type fe. Felt at Dunkeld and Halls Gap. After AUST.
IDC Error ellipse: s-maj=69.8km s-min=38.6km az=116.0.

(709) Southeastern Afghanistan

ISC	**VI**	**01 03 43 32.6–.49**	**34.36N–.05**	**69.50E–.04**	**24**	**4.0b**	**113**	**0-84**
NEIC	VI	01 03 43 33.4–1.4	34.46N	69.20E	27–9	4.1b		**¶16587344**
MOS	VI	01 03 43 33.6–2.6	34.43N	69.75E	36	4.2b		
NNC	VI	01 03 43 36.5–4.0	34.68N	69.59E	0	4.8b,4.5		
IDC	VI	01 03 43 39.4–3.8	34.72N	69.85E	64–33	4.0,3.8		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=18.3km s-min=13.0km az=155.0. Felt [III] at Kabul. Also felt at Charikar.
MOS Error ellipse: s-maj=9.3km s-min=4.9km az=89.8.
NNC Event type se. Error ellipse: s-maj=33.8km s-min=29.8km az=80.0.
IDC Error ellipse: s-maj=25.3km s-min=14.5km az=9.0.

(274) Southern Sumatera

ISC	**VI**	**01 06 13 57.0–.38**	**4.97S–.05**	**102.76E–.06**	**59**	**4.5b,3.6s**	**320**	**1-152**
ISCJB	VI	01 06 13 55.1–.30	5.02S–.04	102.76E–.04	59	4.5b,3.5s		**¶16577366**
DJA	VI	01 06 13 55.3–.70	5S–3.0	103E–3.0	15–7	5.6b,5.1		
IDC	VI	01 06 13 58.5–2.2	4.82S	102.97E	68–19	4.4,4.2		
NEIC	VI	01 06 13 58.2–.82	4.89S	102.81E	69–6	4.6b,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=40.9.
IDC Error ellipse: s-maj=16.2km s-min=9.5km az=53.0.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=5.4km az=223.0. Felt [II] at Kapahiang.

(229) Off east coast of Honshu

ISC	**VI**	**01 06 44 34.3–1.5**	**40.29N–.04**	**143.35E–.05**	**32–10**	**4.6b,3.9s**	**240**	**1-93**
NIED	VI	01 06 44 00	40.30N	143.40E	17	4.4W,3.9s		**¶16558664**
JMA	VI	01 06 44 30.6–.20	40.27N	143.35E	10–2	4.5,3.9s		
ISCJB	VI	01 06 44 30.2–.96	40.26N–.03	143.45E–.04	18–6	4.5b,3.9s		
BJI	VI	01 06 44 32.1	40.30N	143.23E	30	4.8b,4.8b		
NEIC	VI	01 06 44 32.9–1.6	40.28N	143.42E	24–11	4.7b,4.8b		
MOS	VI	01 06 44 32.6–1.1	40.30N	143.37E	33	4.8b,4.8b		
IDC	VI	01 06 44 33.8–3.8	40.21N	143.38E	33–28	4.3,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ23.00000°,λ49.00000°. NP2:ϕ_s33.00000°,δ73.00000°,λ105.00000°. $M_0$4.09000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=38.9.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.0km az=125.0. Recorded [1 JMA] in Iwate.
MOS Error ellipse: s-maj=8.8km s-min=5.0km az=103.5.
IDC Error ellipse: s-maj=15.2km s-min=12.3km az=125.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 08 18 18.5–.34**	**35.49N–.03**	**140.68E–.04**	**10**	**4.5b,3.8s**	**207**	**0-148**
NIED	VI	01 08 18 00	35.50N	140.80E	38	4.6W,3.8s		**¶16552800**
IDC	VI	01 08 18 15.9–.50	35.33N	140.60E	0	4.4,4.3		
BJI	VI	01 08 18 17.1	35.25N	140.73E	25	4.8b,4.6b		
ISCJB	VI	01 08 18 17.2–.21	35.41N–.03	140.55E–.03	10	4.5b,3.8s		
MOS	VI	01 08 18 18.6–1.4	35.34N	140.57E	27	4.7b,3.8s		
JMA	VI	01 08 18 18.9–.10	35.53N	140.72E	28–1	4.5,3.8s		
NEIC	VI	01 08 18 20.4–1.7	35.33N	140.56E	24–12	4.5b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ60.00000°,λ153.00000°. NP2:ϕ_s30.00000°,δ67.00000°,λ33.00000°. $M_0$9.60000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.0km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.7km az=138.5.
MOS Error ellipse: s-maj=9.9km s-min=6.0km az=114.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=5.2km az=128.0. Recorded [3 JMA] in Chiba.

(340) Turkmenistan

ISC	**VI**	**01 10 23 39.6–.42**	**39.70N–.04**	**54.81E–.03**	**29**	**4.2b,3.1s**	**311**	**3-97**
IDC	VI	01 10 23 34.9–.76	39.36N	54.61E	0	4.2,4.1		**¶16577367**
CSEM	VI	01 10 23 37.6–.14	39.67N	54.80E	10	4.5b,4.1		
MOS	VI	01 10 23 37.2–1.4	39.80N	54.78E	16	4.5b,4.1		
NEIC	VI	01 10 23 37.2–.30	39.58N	54.72E	10	4.4,4.2b		
ISCJB	VI	01 10 23 38.4–.20	39.66N–.02	54.73E–.02	29	4.1b,3.2s		
AZER	VI	01 10 23 41.7–.04	39.35N	54.03E	5	4.1b,3.2s		
TEH	VI	01 10 23 43.0	39.58N	54.81E	40	4.4L,3.2s		
NNC	VI	01 10 23 44.7–4.5	40.13N	55.52E	0	4.9,4.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.5km s-min=8.0km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=3.0.
MOS Error ellipse: s-maj=6.7km s-min=5.2km az=35.5.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.3km az=181.0. Felt at Turkmenbasy.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=8.2.
AZER Error ellipse: s-maj=1.9km s-min=1.5km az=33.0.
NNC Event type se. Error ellipse: s-maj=46.5km s-min=18.0km az=71.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 11 33 35.1–1.8**	**38.93N–.05**	**142.38E–.06**	**12–10**	**3.8b**	**36**	**1-88**
NIED	VI	01 11 33 00	38.90N	142.50E	29	3.7W		**¶17204887**
JMA	VI	01 11 33 36.9–.10	38.93N	142.41E	36–2	4.0		
IDC	VI	01 11 33 41.6–3.1	38.84N	142.37E	70–29	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ16.00000°,λ-119.00000°. NP2:ϕ_s174.00000°,δ76.00000°,λ-82.00000°. $M_0$4.60000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=14.9km az=103.0.

(135) Near coast of central Chile

ISC	**VI**	**01 12 55 21.0–.18**	**37.56S–.03**	**73.83W–.04**	**10**	**6.3s,5.6b**	**1338**	**1-178**
GUC	VI	01 12 55 07.0–.64	37.58S	75.22W	10–8	6.1L,5.6b		**¶16722583**
IDC	VI	01 12 55 18.9–.34	37.60S	73.70W	0	6.3,6.3s		
ISCJB	VI	01 12 55 18.4–.13	37.51S–.02	73.91W–.04	10	6.3s,5.5b		
BJI	VI	01 12 55 21.9	37.45S	73.45W	20	6.6s,6.5		
NEIC	VI	01 12 55 21.0–.00	37.54S	73.16W	15	6.6s,6.5		
NEIC	VI	01 12 55 22.4–.16	37.58S	73.69W	21	6.3W,6.3W		
GCMT	VI	01 12 55 22.4–.10	37.74S	74.41W	12	6.3W,6.3W		
MOS	VI	01 12 55 23.5–1.2	37.50S	73.67W	33	6.3s,5.7b		

ISC Event type fe.
GUC Error ellipse: s-maj=2.3km s-min=10.5km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=10.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=162.9.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{18}Nm; M_{rr}0.70 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-0.50 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.60 $M_{\phi r}$-2.70 Best double couple: NP1:ϕ_s185.00000° ,δ83.00000°,λ78.00000°. NP2:ϕ_s65.00000°,δ13.00000°,λ150.00000°. Principal axes: T 3.0000,Plg50.0000°,Azm81.0000°; N -0.2000,Plg11.0000°,Azm186.0000° ; P -2.8000,Plg37.0000°,Azm285.0000° $M_0$3.00000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.6km az=77.0. Felt [IV] at Arauco, Canete, Carahue, Concepcion, Contulmo, Curarrehue, Lebu, Los Alamos, Lota, Puerto Saavedra and Tirua. Felt widely in Araucania and Bio-Bio and in parts of Los Rios. Felt at Neuquen, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$4.90000×10^{18} Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}1.78 $M_{\theta\theta}$0.34 $M_{\phi\phi}$-2.12 $M_{r\theta}$-1.13 $M_{\theta\phi}$1.60 $M_{\phi r}$-3.04 Best double couple: NP1:ϕ_s188.00000°,δ76.00000°,λ119.00000°. NP2: ϕ_s303.00000°,δ32.00000°,λ28.00000°. Principal axes: T 4.2500,Plg51.0000°,Azm131.0000° ; N -0.2800,Plg28.0000°,Azm1.0000°; P -3.9700,Plg25.0000°,Azm256.0000° $M_0$4.10000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s5.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s185.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm95.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000° ,Azm275.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c285; s140,c554;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}2.25±.01 $M_{\theta\theta}$0.02±.01; $M_{\phi\phi}$-2.27±.01; $M_{r\theta}$-0.19±.03; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$-3.40±.03; Best double couple: NP1:ϕ_s183.00000°,δ73.00000°,λ91.00000°. NP2:ϕ_s1.00000°,δ17.00000° ,λ88.00000°. Principal axes: T 4.0770,Plg62.0000°,Azm94.0000°; N 0.0180,Plg1.0000° ,Azm3.0000°; P -4.0990,Plg28.0000°,Azm272.0000° $M_0$4.08800×10^{18}
MOS Error ellipse: s-maj=13.5km s-min=7.2km az=96.9.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 13 39 46.6–1.5**	**38.15N–.05**	**141.89E–.09**	**44–14**	**3.6b**	**39**	**1-146**
ISCJB	VI	01 13 39 46.2–.75	38.14N–.04	141.82E–.08	57–6	3.5b		**¶17204893**
IDC	VI	01 13 39 46.8–2.6	38.08N	141.92E	49–25	3.6,3.6		
JMA	VI	01 13 39 47.0–.10	38.15N	141.77E	54–1	4.0,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.3km az=21.2.
IDC Error ellipse: s-maj=24.2km s-min=16.6km az=106.0.
JMA Event type fe.

(135) Near coast of central Chile

ISC	**VI**	**01 13 47 28.6–.27**	**37.59S–.03**	**73.72W–.06**	**23**	**5.3s,5.0b**	**360**	**1-175**
IDC	VI	01 13 47 25.2–.46	37.62S	73.83W	0	5.1s,5.0		**¶16553283**
GUC	VI	01 13 47 26.0–.46	37.56S	74.12W	36–2	5.2L,5.0		
ISCJB	VI	01 13 47 27.4–.19	37.57S–.03	73.76W–.05	23	5.3s,4.9b		
NEIC	VI	01 13 47 29.6–1.8	37.49S	73.67W	28–12	5.2L,5.1b		
GCMT	VI	01 13 47 29.6–.50	37.37S	74.30W	27–1	5.4W,5.1b		
MOS	VI	01 13 47 29.4–1.3	37.50S	73.82W	33	5.2b,5.1b		

ISC Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=13.4km az=86.0.
GUC Error ellipse: s-maj=1.4km s-min=4.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=179.8.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=4.8km az=78.0. Felt [IV] at Curanilahue and Lebu; [III] at Arauco, Concepcion, Contulmo, Coronel, Hualpen, La Laja, Longavi, Melipeuco, Penco, San Pedro de la Paz, San Rosendo, Tirua and Tolten; [II] at Carahue, Los Sauces, Parral and Temuco. Also felt at Chillan and Talcahuano.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c26; s60,c79; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06±.10 $M_{\theta\theta}$-0.15±.06; $M_{\phi\phi}$-0.90±.07; $M_{r\theta}$-0.44±.09; $M_{\theta\phi}$-0.21±.03; $M_{\phi r}$-0.90±.10; Best double couple: NP1:ϕ_s202.00000° ,δ68.00000°,λ95.00000°. NP2:ϕ_s9.00000°,δ23.00000°,λ77.00000°. Principal axes: T 1.4840,Plg67.0000°,Azm122.0000°; N -0.1190,Plg5.0000°,Azm20.0000° ; P -1.3630,Plg22.0000°,Azm288.0000° $M_0$1.42400×10^{17}
MOS Error ellipse: s-maj=16.9km s-min=9.3km az=98.1.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 14 36 39.1–1.9**	**38.27N–.05**	**141.99E–.09**	**30–12**		**25**	**1-62**
IDC	VI	01 14 36 34.5–1.9	38.06N	142.45E	0	3.6,3.5b		**¶17204897**
JMA	VI	01 14 36 40.0–.10	38.29N	141.90E	47–1	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=33.0km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 14 42 09.5–1.1**	**35.39N–.06**	**140.47E–.08**	**45**	**3.4b**	**14**	**0-59**
IDC	VI	01 14 42 08.0–2.8	35.40N	140.78E	42–25	3.5,3.5		**¶17204898**
ISCJB	VI	01 14 42 09.6–.96	35.40N–.06	140.5E–.10	45	3.4b,3.5		
JMA	VI	01 14 42 09.9–.20	35.42N	140.40E	50–3	2.9,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=47.6km s-min=21.1km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=8.2km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(224) Hokkaido region

ISC	**VI**	**01 16 39 27.5–.49**	**41.76N–.03**	**142.23E–.03**	**31–3**	**4.5b**	**187**	**1-87**
NIED	VI	01 16 39 00	41.70N	142.20E	26	4.2W		**¶16558657**
JMA	VI	01 16 39 26.8–.10	41.67N	142.24E	42–4	4.1		
BJI	VI	01 16 39 27.1	41.64N	142.33E	61	4.9b,4.6b		
MOS	VI	01 16 39 27.1–1.1	41.76N	142.25E	47	4.8b,4.6b		
ISCJB	VI	01 16 39 27.5–.31	41.74N–.02	142.23E–.03	50–2	4.4b,3.4s		
IDC	VI	01 16 39 28.6–.74	41.78N	142.11E	37–5	4.4L,4.1		
NEIC	VI	01 16 39 30.9–.62	41.81N	142.23E	62–5	4.7b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ27.00000°,λ83.00000°. NP2:ϕ_s352.00000°,δ63.00000°,λ94.00000°. $M_0$2.29000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=8.5km s-min=5.5km az=93.2.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.8km az=137.6.
IDC Error ellipse: s-maj=15.4km s-min=11.1km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.1km az=122.0. Recorded [2 JMA] in Aomori, Honshu.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 18 37 00.0–1.0**	**39.69N–.03**	**142.32E–.06**	**44–8**	**4.5b,3.6s**	**114**	**0-145**
BJI	VI	01 18 36 58.0	40.00N	142.30E	30	4.8b,4.6b		**¶600628059**
ISCJB	VI	01 18 36 58.8–.53	39.74N–.03	142.33E–.06	50–3	4.5b,3.5s		
NIED	VI	01 18 37 00	39.70N	142.20E	47	4.4W,3.5s		
JMA	VI	01 18 37 00.0	39.73N	142.25E	44–1	4.3,3.5s		
NEIC	VI	01 18 37 01.6–.58	39.75N	142.24E	61–4	4.7b,3.5s		
IDC	VI	01 18 37 01.9–1.9	39.72N	142.22E	62–16	4.4,4.2		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=15.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ78.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ94.00000°. $M_0$4.26000×10^{15}
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.3km az=120.0. Recorded [2 JMA] in Aomori and Iwate.
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=107.0.

(227) Eastern Honshu

JMA	**VI**	**01 19 57 55.5**	**36.64N**	**139.47E**	**4**	**2.9**		**¶600628090**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 20 27 12.3–.95**	**35.55N–.05**	**141.21E–.07**	**33**	**3.6b**	**26**	**0-59**
ISCJB	VI	01 20 27 10.0–.66	35.59N–.04	141.39E–.07	33	3.6b		**¶600628102**
IDC	VI	01 20 27 12.9–3.1	35.55N	141.32E	38–25	3.7,3.6		
JMA	VI	01 20 27 13.4–.10	35.55N	141.03E	37–1	3.3,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.5km az=175.5.
IDC Error ellipse: s-maj=39.0km s-min=16.0km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 20 33 27.3–1.7**	**40.41N–.05**	**142.41E–.08**	**28–11**	**4.1b**	**34**	**1-132**
NIED	VI	01 20 33 00	40.40N	142.30E	50	3.8W		**¶16722586**
JMA	VI	01 20 33 29.3–.10	40.38N	142.27E	40–1	4.1		
IDC	VI	01 20 33 30.7–2.2	40.33N	142.33E	64–18	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ20.00000°,λ94.00000°. NP2:ϕ_s17.00000°,δ70.00000°,λ89.00000°. $M_0$5.48000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=29.8km s-min=12.7km az=88.0.

(2) Southern Alaska

ISC	**VI**	**01 21 08 24.5–.94**	**61.34N–.03**	**147.25W–.02**	**29–8**	**3.5b**	**104**	**0-79**
IDC	VI	01 21 08 17.6–1.4	61.05N	148.29W	0	3.8,3.7		**¶16856053**
ISCJB	VI	01 21 08 24.2–.34	61.39N–.02	147.20W–.03	31–3	3.5b,3.7		
NEIC	VI	01 21 08 24.9	61.39N	147.15W	12	3.7L,3.7		

ISC Event type fe.
IDC Error ellipse: s-maj=24.5km s-min=13.7km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=21.2.
NEIC Event type fe. Felt at Girdwood. After AEIC.

(228) Near east coast of eastern Honshu

ISC	**VI**	**01 22 06 41.9–1.2**	**40.37N–.04**	**142.12E–.09**	**49–9**	**4.0b,3.2s**	**32**	**0-80**
NIED	VI	01 22 06 00	40.40N	142.30E	47	3.9W,3.2s		**¶17204925**
ISCJB	VI	01 22 06 40.2–.91	40.39N–.04	142.2E–.10	57–6	3.9b,3.3s		
JMA	VI	01 22 06 41.0–.10	40.37N	142.26E	40–1	4.1,3.3s		
IDC	VI	01 22 06 42.9–2.7	40.41N	142.38E	70–21	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ22.00000°,λ93.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ89.00000°. M_o8.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.2km az=176.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=16.4km az=88.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**01 22 17 05.6–.10**	**38.70N**	**142.24E**	**38–1**	**3.7**		
NIED	VI	01 22 17 00	38.70N	142.30E	53	3.6W		¶600628153

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ18.00000°,λ110.00000°. NP2:ϕ_s351.00000°,δ73.00000°,λ84.00000°. M_o2.38000×10^{14}

(103) Colombia

ISC	**VI**	**01 22 57 59.6–.34**	**4.84N–.03**	**75.92W–.03**	**66–2**	**5.0b**	**739**	**1-156**
MOS	VI	01 22 57 56.2–.93	4.72N	75.90W	50	5.2b		¶16554281
BJI	VI	01 22 57 59.2	4.80N	75.80W	78	5.2,5.2b		
ISCJB	VI	01 22 57 59.4–.27	4.90N–.02	75.93W–.02	75–2	4.9b,5.2b		
RSNC	VI	01 22 58 00.1–.98	4.88N	75.96W	20–4	4.5L,5.2b		
NEIC	VI	01 22 58 01.1–.45	4.79N	75.77W	80–4	5.0b,5.2b		
IDC	VI	01 22 58 02.0–1.3	4.78N	75.84W	90–11	4.6,4.4		

ISC Event type fe.
MOS Error ellipse: s-maj=10.2km s-min=6.1km az=110.6.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.0km az=37.5.
RSNC Error ellipse: s-maj=2.3km s-min=2.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=58.0. Felt [IV] at Pereira. Also felt at Andes, Manizales, Medellin and Tunja.
IDC Error ellipse: s-maj=14.2km s-min=10.0km az=61.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 00 29 43.9–.79**	**38.23N–.04**	**141.95E–.07**	**63–6**	**3.9b**	**47**	**1-146**
NIED	VI	02 00 29 00	38.30N	141.90E	62	3.9W		¶17204927
ISCJB	VI	02 00 29 42.9–.71	38.25N–.04	141.92E–.08	68–5	3.8b		
JMA	VI	02 00 29 44.0–.10	38.27N	141.88E	64–1	3.9		
IDC	VI	02 00 29 45.3–2.5	38.20N	141.89E	77–23	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ44.00000°,λ95.00000°. NP2:ϕ_s351.00000°,δ46.00000°,λ85.00000°. M_o7.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.3km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.4km s-min=14.2km az=82.0.

(259) Mindanao

MAN	**VI**	**02 00 58 34**	**9.17N**	**125.60E**	**4**	**3.5b,3.4L**		¶601651023

MAN Event type fe. INTENSITY II - BUTUAN CITY; CABADBARAN AGUSAN DEL NORTE.

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 01 28 18.3–1.1**	**36.94N–.04**	**140.76E–.07**	**20–4**		**18**	**0-57**
NIED	VI	02 01 28 00	37.00N	140.70E	23	3.5W		¶17204932
ISCJB	VI	02 01 28 17.9–.91	36.92N–.04	140.84E–.08	17–8	3.9b		
JMA	VI	02 01 28 18.8	36.96N	140.70E	17–1	3.9		
IDC	VI	02 01 28 18.1–4.2	36.56N	140.80E	0	3.9,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ51.00000°,λ-179.00000°. NP2:ϕ_s197.00000°,δ89.00000°,λ-39.00000°. M_o1.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.4km az=19.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ75.00000°,λ-32.00000°. NP2:ϕ_s300.00000°,δ59.00000°,λ-163.00000°. Principal axes: T Plg11.0000°,Azm253.0000°; N Plg55.0000°,Azm359.0000°; P Plg33.0000° ,Azm156.0000°
IDC Error ellipse: s-maj=81.4km s-min=28.6km az=29.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**02 02 03 55.7–.10**	**38.76N**	**142.18E**	**37–2**	**3.5**		
NIED	VI	02 02 03 00	38.80N	142.20E	71	4.4W		¶600628241

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ51.00000°,λ-140.00000°. NP2:ϕ_s347.00000°,δ60.00000°,λ-47.00000°. M_o4.16000×10^{15}

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 02 15 37.0–1.1**	**38.14N–.05**	**141.89E–.08**	**49–9**	**4.1b**	**51**	**1-146**
NIED	VI	02 02 15 00	38.20N	141.80E	50	4.1W		¶16722590
ISCJB	VI	02 02 15 36.8–.70	38.17N–.04	141.80E–.08	61–5	4.0b		
JMA	VI	02 02 15 37.7–.10	38.17N	141.76E	55–1	4.0		
IDC	VI	02 02 15 39.8–2.3	38.14N	141.68E	74–21	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ27.00000°,λ98.00000°. NP2:ϕ_s180.00000°,δ63.00000°,λ86.00000°. M_o1.68000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.4km az=24.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=13.7km az=90.0.

(227) Eastern Honshu

ISC	**VI**	**02 02 33 50.3–.59**	**36.97N–.03**	**138.77E–.03**	**25–4**	**4.6b,4.0s**	**271**	**0-149**
NIED	VI	02 02 33 00	37.00N	138.70E	5	4.6W,4.0s		¶603243974
BJI	VI	02 02 33 42.3	36.81N	139.24E	10	4.8b,4.5b		
ISCJB	VI	02 02 33 48.0–.37	37.00N–.02	138.70E–.03	18–2	4.5b,4.0s		
IDC	VI	02 02 33 48.5–2.0	36.95N	138.73E	11–12	4.4,4.3		
JMA	VI	02 02 33 48.0	37.02N	138.71E	6–3	4.7,4.3		
NEIC	VI	02 02 33 50.0–.80	36.89N	138.72E	25–6	4.7b,4.3		
MOS	VI	02 02 33 49.7–1.2	36.93N	138.67E	33	4.7b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ35.00000°,λ93.00000°. NP2:ϕ_s222.00000°,δ55.00000°,λ88.00000°. M_o8.80000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=39.2.
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=114.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000° ,δ86.00000°,λ-47.00000°. NP2:ϕ_s96.00000°,δ43.00000°,λ-175.00000°. Principal axes: T Plg28.0000°,Azm59.0000°; N Plg43.0000°,Azm179.0000°; P Plg34.0000°,Azm308.0000°
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=139.0. Recorded [5U JMA] in Niigata.
MOS Error ellipse: s-maj=8.1km s-min=5.1km az=103.1.

(228) Near east coast of eastern Honshu

JMA	**VI**	**02 03 18 30.1–.10**	**38.34N**	**141.89E**	**63–1**	**3.5**		
NIED	VI	02 03 18 00	38.30N	142.00E	68	4.3W		¶600628283

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s35.00000°,δ36.00000°,λ137.00000°. NP2:ϕ_s162.00000°,δ66.00000°,λ62.00000°. M_o3.07000×10^{15}

(226) Near west coast of eastern Honshu

ISC	**VI**	**02 03 51 02.3–1.1**	**37.04N–.02**	**138.65E–.03**	**6–7**	**4.0b,3.3s**	**49**	**0-149**
NIED	VI	02 03 51 00	37.00N	138.70E	5	4.1W,3.3s		¶603243977
ISCJB	VI	02 03 51 02.9–.34	37.04N–.02	138.69E–.03	21–3	3.9b,3.4s		
IDC	VI	02 03 51 03.6–2.6	37.02N	138.56E	16–17	4.1,4.0		
JMA	VI	02 03 51 03.0	37.04N	138.71E	8–2	4.1,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s207.00000°,δ34.00000°,λ67.00000°. NP2:ϕ_s54.00000°,δ59.00000°,λ105.00000°. M_o1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=7.3.
IDC Error ellipse: s-maj=19.3km s-min=16.2km az=91.0.
JMA Event type fe.

(330) Lake Issyk-Kul region

ISC	**VI**	**02 05 13 58.7–.74**	**43.62N–.02**	**77.66E–.02**	**16–5**		**108**	**0-66**
NNC	VI	02 05 13 58.5–.48	43.59N	77.70E	6–3	4.1b,3.8		¶17204944
MOS	VI	02 05 13 58.2–1.4	43.76N	77.55E	12	4.3b,3.8		
IDC	VI	02 05 13 58.1–2.6	43.62N	77.55E	12–20	3.5,3.5		
KRNET	VI	02 05 13 58.4–.10	43.60N	77.66E	35	3.9b,3.5		
ISCJB	VI	02 05 13 59.2–.40	43.61N–.02	77.68E–.02	9–3	3.7s,3.4b		
SOME	VI	02 05 13 59.1	43.62N	77.68E	15	2.5s,3.4b		

ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.9km s-min=2.2km az=169.0.
MOS Event type fe. Error ellipse: s-maj=16.9km s-min=9.5km az=67.0. Felt (III) at Talgar; (II) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=17.2km s-min=9.8km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=160.9.

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 05 47 52.5–.81**	**36.82N–.03**	**140.60E–.05**	**12–5**	**4.3b**	**89**	**0-147**
NIED	VI	02 05 47 00	36.80N	140.70E	5	4.0W		¶16577370
BJI	VI	02 05 47 51.9	36.62N	140.77E	36	4.6b,4.4b		
ISCJB	VI	02 05 47 51.9–.51	36.83N–.02	140.68E–.04	19–3	4.2b,3.4s		
JMA	VI	02 05 47 52.5	36.83N	140.59E	7–1	4.2,3.4s		
NEIC	VI	02 05 47 57.1–.56	36.84N	140.47E	45–5	4.6b,3.4s		
IDC	VI	02 05 47 58.5–2.1	36.79N	140.45E	62–19	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ43.00000°,λ-111.00000°. NP2:ϕ_s220.00000°,δ50.00000°,λ-72.00000°. M_o1.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=31.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s233.00000°,δ57.00000°,λ-77.00000°. NP2:ϕ_s29.00000°,δ35.00000°,λ-110.00000°. Principal axes: T Plg11.0000°,Azm313.0000°; N Plg11.0000°,Azm45.0000°; P Plg74.0000° ,Azm179.0000°
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.1km az=137.0. Recorded [2 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=15.8km s-min=13.9km az=47.0.

(193) Bougainville-Solomon Islands region

ISC	**VI**	**02 06 47 27.7–.32**	**10.39S–.04**	**161.33E–.04**	**84–2**	**5.2b**	**375**	**2-160**
IDC	VI	02 06 47 27.2–.46	10.43S	161.31E	79–3	4.9,4.8		¶16722592
ISCJB	VI	02 06 47 27.7–.70	10.45S–.03	161.19E–.03	92–6	5.1b,4.8		
MOS	VI	02 06 47 28.5–.90	10.38S	161.15E	100	5.2b,4.4s		
BJI	VI	02 06 47 28.5	9.92S	161.45E	89	5.0b,4.9b		
NEIC	VI	02 06 47 29.3–.66	10.45S	161.23E	95–6	5.3b,4.9b		
GCMT	VI	02 06 47 29.3–.10	10.45S	161.27E	81–1	5.3W,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=11.2km s-min=6.7km az=39.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.3km az=21.1.
MOS Error ellipse: s-maj=8.5km s-min=7.3km az=90.1.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=89.0. Felt at Honiara.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c168; s112,c211; Duration: 1$\mathfrak{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.02 $M_{\theta\theta}$-0.83±.02; $M_{\phi\phi}$0.09±.02; $M_{r\theta}$-0.67±.01; $M_{\theta\phi}$0.68±.02; $M_{\phi r}$-0.27±.01; Best double couple: NP1:ϕ_s268.00000°,δ67.00000° ,λ53.00000°. NP2:ϕ_s150.00000°,δ43.00000°,λ144.00000°. Principal axes: T 1.2180,Plg53.0000°,Azm133.0000°; N 0.0880,Plg33.0000°,Azm284.0000° ; P -1.3060,Plg14.0000°,Azm24.0000° M_o1.26200×10^{17}

(226) Near west coast of eastern Honshu

ISC	**VI**	**02 07 01 48.9–1.2**	**37.04N–.04**	**138.72E–.04**	**14–10**		**24**	**0-57**
IDC	VI	02 07 01 47.9–2.3	37.06N	138.72E	0	4.2,4.2s		¶603243979
ISCJB	VI	02 07 01 49.5–.59	37.03N–.03	138.67E–.04	13–6	4.3s,4.0b		
JMA	VI	02 07 01 50.0	37.03N	138.69E	8–2	3.4,4.0b		

ISC Event type ke.
IDC Error ellipse: s-maj=16.3km s-min=12.1km az=32.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=142.5.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 11 22 38.0–.82**	**39.11N–.04**	**142.22E–.06**	**29–5**	**3.8b**	**34**	**0-88**
NIED	VI	02 11 22 00	39.10N	142.50E	32	3.7W		¶17204992
ISCJB	VI	02 11 22 35.0–1.3	39.08N–.04	142.46E–.08	27–6	3.7b,2.9s		
JMA	VI	02 11 22 35.9–.10	39.13N	142.42E	32–1	3.9,2.9s		
IDC	VI	02 11 22 37.3–.90	38.97N	142.30E	35–7	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s316.00000°,δ24.00000°,λ-132.00000°. NP2:ϕ_s180.00000°,δ72.00000°,λ-74.00000°. M_o4.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=6.0km az=11.0.
JMA Event type fe.
IDC Error ellipse: s-maj=29.7km s-min=20.0km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 11 26 42.9–1.1**	**39.07N–.04**	**142.35E–.08**	**21–4**	**3.9b**	**31**	**1-63**
NIED	VI	02 11 26 00	39.10N	142.50E	32	3.5W		¶17204994
IDC	VI	02 11 26 39.4–2.1	38.92N	142.13E	0	3.8,3.8b		
ISCJB	VI	02 11 26 41.7–1.3	39.10N–.04	142.47E–.08	26–6	3.8b,3.8b		
JMA	VI	02 11 26 43.0–.10	39.13N	142.40E	34–1	3.9,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ13.00000°,λ-116.00000°. NP2:ϕ_s191.00000°,δ78.00000°,λ-84.00000°. M_o1.87000×10^{14}
IDC Error ellipse: s-maj=58.8km s-min=24.8km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.1km az=9.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(227) Eastern Honshu

ISC	**VI**	**02 12 00 10.2–.71**	**36.44N–.06**	**137.65E–.03**	**11**	**3.7b,3.4s**	**18**	**0-82**
NIED	VI	02 12 00 00	36.50N	137.60E	8	4.3W,3.4s		¶17204997
JMA	VI	02 12 00 07.8–.10	36.48N	137.64E	1–2	3.8,3.4s		
ISCJB	VI	02 12 00 08.5–.46	36.43N–.06	137.66E–.03	11	3.6b,3.5s		
IDC	VI	02 12 00 08.7–.79	36.36N	137.70E	0	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s276.00000°,δ76.00000°,λ-170.00000°. NP2:ϕ_s184.00000°,δ80.00000°,λ-14.00000°. M_o2.94000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s188.00000°,δ86.00000°,λ6.00000°. NP2:ϕ_s98.00000°,δ84.00000°,λ176.00000°. Principal axes: T Plg7.0000°,Azm53.0000°; N Plg83.0000°,Azm217.0000°; P Plg2.0000° ,Azm323.0000°
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=3.9km az=174.7.
IDC Error ellipse: s-maj=22.2km s-min=7.5km az=161.0.

(135) Near coast of central Chile

ISC	**VI**	**02 12 21 33.6–2.1**	**34.05S–.04**	**72.19W–.07**	**14–12**	**4.5b,3.5s**	**59**	**1-157**
ISCJB	VI	02 12 21 34.1–1.6	34.04S–.04	72.27W–.06	31–12	4.4b,3.7s		¶16856104
GUC	VI	02 12 21 34.0–.38	34.05S	72.19W	45–3	4.4L,3.7s		
NEIC	VI	02 12 21 34.0	34.05S	72.19W	45	4.5b,3.7s		
IDC	VI	02 12 21 36.3–7.3	34.02S	72.00W	29–49	4.2,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.9km az=23.8.
GUC Error ellipse: s-maj=1.4km s-min=3.3km az=-1.0.
NEIC Event type fe. Felt [III] at Pichilemu and [II] at Limache, Melipilla, Rancagua, San Antonio and Talca. After GUC.
IDC Error ellipse: s-maj=31.2km s-min=21.0km az=88.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**02 14 28 06.6–.75**	**35.64N–.04**	**140.22E–.05**	**65–7**	**3.8b**	**39**	**0-79**
NIED	VI	02 14 28 00	35.70N	140.20E	62	4.1W		¶17205003
ISCJB	VI	02 14 28 05.5–.41	35.62N–.03	140.19E–.06	71–3	3.8b		
IDC	VI	02 14 28 05.8–1.6	35.58N	140.25E	57–15	3.9,3.8		
JMA	VI	02 14 28 05.7–.20	35.65N	140.18E	69–2	3.5,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ99.00000°. NP2:ϕ_s4.00000°,δ68.00000°,λ86.00000°. M_o1.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.4km az=161.0.
IDC Error ellipse: s-maj=21.3km s-min=9.7km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s197.00000°,δ88.00000°,λ-90.00000°. NP2: ϕ_s17.00000°,δ2.00000°,λ-90.00000°. Principal axes: T Plg43.0000°,Azm287.0000° ; N Plg0.0000°,Azm17.0000°; P Plg47.0000°,Azm107.0000°

(229) Off east coast of Honshu

ISC	**VI**	**02 14 37 50.9–.54**	**37.45N–.04**	**142.88E–.04**	**29–3**	**4.8b,4.4s**	**432**	**2-160**
NIED	VI	02 14 37 00	37.50N	142.70E	17	4.7W,4.4s		¶16554499
IDC	VI	02 14 37 46.6–.45	37.45N	142.79E	0	4.6,4.6		
ISCJB	VI	02 14 37 48.1–.85	37.50N–.02	142.72E–.02	15–5	4.7b,4.4s		
JMA	VI	02 14 37 49.6–.20	37.51N	142.72E	31	4.9,4.4s		
BJI	VI	02 14 37 50.7	37.50N	142.70E	35	4.9b,4.7b		
NEIC	VI	02 14 37 50.1–1.9	37.45N	142.76E	19–11	4.9b,4.7b		
MOS	VI	02 14 37 51.2–1.1	37.70N	142.71E	33	4.9b,4.7b		

ISC Event type fe.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s63.00000°,δ28.00000°,λ-77.00000°. NP2:ϕ_s229.00000°,δ63.00000°,λ-97.00000°. M_o1.41000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=10.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=158.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=136.0. Felt at Fukushima. Recorded [2 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=106.6.

(227) Eastern Honshu

ISC	**VI**	**02 14 41 36.1–.96**	**37.11N–.03**	**140.61E–.03**	**9–7**	**3.6b**	**24**	**0-61**

IDC VI 02 14 41 34.3–1.2 37.09N 140.61E 0 3.9,3.8 ¶16555884
ISCJB VI 02 14 41 35.4–.45 37.10N–.03 140.66E–.04 18–4 3.7b,3.8
JMA VI 02 14 41 35.5 37.10N 140.59E 7–1 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=20.1km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=10.6.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 02 16 14 57.0–1.6 38.41N–.05 141.9E–.10 53–11 3.6b 25 0-58
NIED VI 02 16 14 00 38.40N 141.80E 53 3.7W ¶17205009
ISCJB VI 02 16 14 56.5–.99 38.42N–.04 141.86E–.10 61–7 3.5b
JMA VI 02 16 14 57.6–.10 38.43N 141.82E 57–1 3.8
IDC VI 02 16 15 01.3–1.8 39.18N 140.37E 0 3.6b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ59.00000°,λ177.00000°. NP2:ϕ_s9.00000°,δ87.00000°,λ31.00000°. M_o4.62000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=5.9km az=19.7.
JMA Event type fe.
IDC Error ellipse: s-maj=48.0km s-min=25.3km az=89.0.
(59) Guerrero
ISC VI 02 16 29 44.1–.51 18.62N–.04 101.48W–.03 64–4 4.9b 938 1-151
IDC VI 02 16 29 44.3–.70 18.75N 101.28W 60–5 4.7,4.6 ¶16722594
NEIC VI 02 16 29 46.2–.39 18.69N 101.32W 82–3 5.3W,5.1
ISCJB VI 02 16 29 46.7–.18 18.75N–.02 101.29W–.02 100 4.8b,5.1
GCMT VI 02 16 29 46.2–.20 18.67N 101.50W 77–1 5.2W,5.1
MEX VI 02 16 29 46.2–.81 18.47N 101.51W 20–10 5.1,5.1
MOS VI 02 16 29 48.6–1.0 18.87N 101.20W 111 4.9b,5.1
ISC Event type fe.
IDC Error ellipse: s-maj=18.0km s-min=9.9km az=61.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=219.0. Felt [II] at Mexico, Morelia and Patzcuaro. Also felt at Ixtapa, La Union, Lazaro Cardenas and Zihuatanejo. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-7.52 $M_{\theta\theta}$9.98 $M_{\phi\phi}$-2.46 $M_{r\theta}$-0.26 $M_{\theta\phi}$-0.25 $M_{\theta r}$3.33 Best double couple: NP1:ϕ_s247.00000°,δ50.00000°,λ-126.00000°. NP2: ϕ_s115.00000°,δ52.00000°,λ-56.00000°. Principal axes: T 9.9900,Plg1.0000°,Azm181.0000° ; N -0.8200,Plg26.0000°,Azm272.0000°; P -9.1700,Plg64.0000°,Azm89.0000° $M_0$9.60000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=25.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c125; s86,c139; Duration: 0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.58±.01 $M_{\theta\theta}$0.78±.01; $M_{\phi\phi}$-0.20±.02; $M_{r\theta}$0.28±.01; $M_{\theta\phi}$-0.07±.02; $M_{\phi r}$-0.01±.01; Best double couple: NP1:ϕ_s273.00000°,δ56.00000° ,λ-91.00000°. NP2:ϕ_s96.00000°,δ34.00000°,λ-88.00000°. Principal axes: T 0.8420,Plg11.0000°,Azm4.0000°; N -0.2120,Plg1.0000°,Azm274.0000° ; P -0.6300,Plg79.0000°,Azm178.0000° $M_0$0.73600×10^{17}
MEX Error ellipse: s-maj=2.5km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=4.6km az=101.3.
(243) Taiwan region
ISC VI 02 17 07 54.2–.49 22.26N–.03 121.45E–.02 43–4 5.0b,4.4s 745 0-176
NIED VI 02 17 07 00 21.90N 121.20E 32 4.9W,4.4s ¶16554506
JMA VI 02 17 07 46.6–.60 21.94N 121.21E 43 5.1,4.4s
ISCJB VI 02 17 07 52.3–.20 22.22N–.01 121.47E–.02 41–1 4.9b,4.4s
TAP VI 02 17 07 52.3 22.26N 121.34E 22–0 5.2L,4.4s
MOS VI 02 17 07 53.5–1.0 22.26N 121.44E 51 5.3b,4.6s
NEIC VI 02 17 07 54.0–.60 22.24N 121.41E 43–5 5.0b,4.6s
BJI VI 02 17 07 53.2 22.30N 121.25E 30 4.8b,4.7L
GCMT VI 02 17 07 54.0–.20 22.20N 121.41E 29–0 5.0W,4.7L
IDC VI 02 17 07 54.2–1.3 22.21N 121.59E 48–11 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ50.00000°,λ23.00000°. NP2:ϕ_s55.00000°,δ73.00000°,λ138.00000°. M_o2.89000×10^{16}
JMA Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.0km az=16.9.
TAP B.
MOS Error ellipse: s-maj=7.2km s-min=4.0km az=114.2.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=105.0. Recorded [4 TAP] in Taitung, [3 TAP] in Pingtung, [2 TAP] in Chiayi and [1 TAP] in Hualien and Yunlin.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c44; s79,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.23±.22 $M_{\theta\theta}$0.57±.12; $M_{\phi\phi}$-3.80±.14; $M_{r\theta}$1.21±.18; $M_{\theta\phi}$-2.28±.07; $M_{\phi r}$-0.61±.18; Best double couple: NP1:ϕ_s177.00000°,δ52.00000° ,λ52.00000°. NP2:ϕ_s49.00000°,δ51.00000°,λ129.00000°. Principal axes: T 3.9820,Plg61.0000°,Azm24.0000°; N 0.7950,Plg29.0000°,Azm203.0000° ; P -4.7730,Plg1.0000°,Azm293.0000° M_o4.37800×10^{16}
IDC Error ellipse: s-maj=12.9km s-min=9.2km az=72.0.
(229) Off east coast of Honshu
ISC VI 02 20 25 28.9–1.8 37.80N–.04 142.26E–.06 8–10 4.2b,3.3s 97 1-146
NIED VI 02 20 25 00 37.80N 142.30E 29 4.1W,3.3s ¶600629039
BJI VI 02 20 25 25.0 37.70N 142.50E 10 4.7b,4.5b
ISCJB VI 02 20 25 28.5–1.0 37.81N–.03 142.32E–.05 15–6 4.2b,3.3s
JMA VI 02 20 25 31.3–.20 37.85N 142.21E 32–3 4.1,3.3s
NEIC VI 02 20 25 32.6–2.1 37.88N 142.25E 28–14 4.4b,3.3s
IDC VI 02 20 25 35.9–2.1 37.87N 142.22E 56–17 4.1,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ57.00000°,λ-5.00000°. NP2:ϕ_s83.00000°,δ85.00000°,λ-147.00000°. M_o1.54000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.9km az=13.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.3km az=106.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
IDC Error ellipse: s-maj=15.5km s-min=11.2km az=112.0.
(330) Lake Issyk-Kul region
ISC VI 02 21 06 42.0–.75 42.45N–.02 78.39E–.02 12–4 3.9b,3.2s 194 0-83
IDC VI 02 21 06 40.0–.68 42.38N 78.45E 0 4.0,3.9 ¶16637551
ISCJB VI 02 21 06 40.3–.54 42.37N–.02 78.54E–.02 5–3 3.8b,3.3s
BJI VI 02 21 06 40.3 42.46N 78.43E 5 4.4b,4.4L
KRNET VI 02 21 06 41.5–.10 42.37N 78.41E 25 5.0b,4.4L
SOME VI 02 21 06 41.9 42.33N 78.38E 25 3.4s,4.4L
NNC VI 02 21 06 42.8–.93 42.53N 78.43E 0 4.8b,4.6
MOS VI 02 21 06 42.5–1.4 42.59N 78.52E 21 4.5b,4.6
NEIC VI 02 21 06 46.5–.71 42.54N 78.43E 44–7 4.1b,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=11.2km s-min=9.0km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=167.2.
NNC Event type se. Error ellipse: s-maj=8.6km s-min=2.4km az=167.0.
MOS Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=117.4. Felt (II-III) at Almaty. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=185.0. Felt [III] at Almaty, Kazakhstan.
(228) Near east coast of eastern Honshu
ISC VI 02 22 15 54.2–2.8 39.10N–.04 142.44E–.08 18–16 4.0b 36 1-88
NIED VI 02 22 15 00 39.10N 142.40E 38 4.0W ¶17205033
JMA VI 02 22 15 55.9–.10 39.13N 142.41E 34–1 4.3
IDC VI 02 22 16 00.7–2.5 39.02N 142.33E 70–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ26.00000°,λ-128.00000°. NP2:ϕ_s191.00000°,δ70.00000°,λ-73.00000°. M_o1.11000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.7km s-min=15.5km az=95.0.
(228) Near east coast of eastern Honshu
ISC VI 02 23 33 49.3–1.8 40.41N–.05 142.2E–.10 33–5 3.5b 16 1-60
NIED VI 02 23 33 00 40.40N 142.30E 56 3.6W ¶17205042
ISCJB VI 02 23 33 48.8–1.1 40.39N–.06 142.2E–.10 52–9 3.5b
JMA VI 02 23 33 48.9–.10 40.38N 142.27E 40–1 3.9
IDC VI 02 23 33 51.2–1.7 40.87N 141.01E 0 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ24.00000°,λ154.00000°. NP2:ϕ_s355.00000°,δ80.00000°,λ69.00000°. M_o2.39000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=10.0km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=47.2km s-min=24.9km az=88.0.
(228) Near east coast of eastern Honshu
ISC VI 02 23 38 04.8–2.2 39.07N–.05 142.41E–.08 13–11 3.7b 24 1-59
NIED VI 02 23 38 00 39.00N 142.40E 26 3.5W ¶17205045
ISCJB VI 02 23 38 04.8–1.3 39.04N–.04 142.45E–.08 21–7 3.5b
JMA VI 02 23 38 06.1–.10 39.06N 142.39E 32–1 3.9
IDC VI 02 23 38 11.7–3.0 38.94N 142.29E 72–28 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ21.00000°,λ-117.00000°. NP2:ϕ_s168.00000°,δ71.00000°,λ-80.00000°. M_o2.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.6km az=19.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=21.3km az=105.0.
(229) Off east coast of Honshu
ISC VI 03 00 05 01.7–.34 37.30N–.02 143.97E–.02 20–1 6.4b,6.0s 2625 2-163
IDC VI 03 00 04 58.1–.30 37.20N 144.06E 0 5.9,5.9 ¶602897544
ISCJB VI 03 00 04 59.5–.43 37.31N–.01 143.93E–.01 14–2 6.3b,5.9s
GCMT VI 03 00 05 00.8–.10 37.35N 143.96E 20–0 6.1W,5.9s
BJI VI 03 00 05 00.8 37.35N 144.00E 30 6.2s,6.1b
NEIC VI 03 00 05 00.8–.07 37.29N 143.91E 14 6.4b,6.2W
NIED VI 03 00 05 00 37.30N 143.70E 11 5.9W,6.2W
MOS VI 03 00 05 01.1–1.2 37.36N 143.98E 28 6.6b,6.0s
JMA VI 03 00 05 02.7–.30 37.30N 143.83E 57 6.1,6.0s
NEIC VI 03 00 05 03.0–.00 37.29N 143.91E 25 6.1,6.0s
NEIC VI 03 00 05 10.5–.00 37.45N 144.60E 23 6.1,6.0s
ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.4km az=168.2.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c276; s137,c504;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.41±.01 $M_{\theta\theta}$0.85±.01; $M_{\phi\phi}$0.55±.01; $M_{r\theta}$-0.37±.02; $M_{\theta\phi}$0.99±.01; $M_{\phi r}$0.41±.02; Best double couple: NP1:ϕ_s70.00000°,δ49.00000°,λ-60.00000°. NP2:ϕ_s208.00000° ,δ49.00000°,λ-120.00000°. Principal axes: T 1.7100,Plg0.0000°,Azm139.0000° ; N -0.0720,Plg22.0000°,Azm229.0000°; P -1.6380,Plg68.0000°,Azm48.0000° M_o1.67400×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=154.0. Felt [III] at Tokyo. Also felt at Ichinoseki, Musashino and Sakado. Recorded [3 JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s39 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.24 $M_{\theta\theta}$0.36 $M_{\phi\phi}$0.88 $M_{r\theta}$0.45 $M_{\theta\phi}$0.70 $M_{\phi r}$0.01 Best double couple: NP1:ϕ_s19.00000°,δ42.00000° ,λ-115.00000°. NP2:ϕ_s230.00000°,δ53.00000°,λ-70.00000°. Principal axes: T 1.3900,Plg6.0000°,Azm306.0000°; N -0.0200,Plg16.0000°,Azm38.0000° ; P -1.3700,Plg73.0000°,Azm197.0000° $M_0$1.40000×10^{18}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ39.00000°,λ-136.00000°. NP2:ϕ_s72.00000°,δ64.00000°,λ-60.00000°. M_o8.76000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.6km az=100.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06 $M_{\theta\theta}$0.57 $M_{\phi\phi}$0.49 $M_{r\theta}$-0.71 $M_{\theta\phi}$0.55 $M_{\phi r}$-0.68 Best double couple: NP1:ϕ_s47.00000° ,δ66.00000°,λ-90.00000°. NP2:ϕ_s228.00000°,δ24.00000°,λ-88.00000°. Principal axes: T 1.4700,Plg21.0000°,Azm137.0000°; N -0.0200,Plg0.0000°,Azm46.0000° ; P -1.4400,Plg68.0000°,Azm315.0000° $M_0$1.50000×10^{18}
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.57 $M_{\theta\theta}$0.94 $M_{\phi\phi}$0.63 $M_{r\theta}$-1.42 $M_{\theta\phi}$1.04 $M_{\phi r}$-1.72 Best double couple: NP1:ϕ_s240.00000° ,δ19.00000°,λ-72.00000°. NP2:ϕ_s41.00000°,δ71.00000°,λ-96.00000°. Principal axes: T 2.9300,Plg26.0000°,Azm136.0000°; N -0.2300,Plg6.0000°,Azm43.0000° ; P -2.7000,Plg63.0000°,Azm302.0000° $M_0$2.80000×10^{18}
(311) Sikkim
ISC VI 03 00 53 25.3–.31 27.46N–.03 87.84E–.03 30–2 4.8b 420 2-155
NDI VI 03 00 53 23.3–2.8 27.54N 87.92E 10–13 5.0b,5.0L ¶16555902
ISCJB VI 03 00 53 24.5–.45 27.46N–.02 87.99E–.02 37–4 4.8b,4.3s
MOS VI 03 00 53 24.8–1.0 27.54N 88.06E 38 4.9b,4.3s
BJI VI 03 00 53 25.2 27.53N 87.92E 33 5.3b,4.8b
BKK VI 03 00 53 25.7–.40 28N–6.0 88E–7.0 10 5.1b,4.8b
IDC VI 03 00 53 26.9–.61 27.55N 88.03E 44–4 4.5,4.4
NEIC VI 03 00 53 27.3–.17 27.53N 88.02E 46 5.0b,4.4
DMN VI 03 00 53 27.1–.00 27.60N 88.03E 66 5.0b,4.4
ISC Event type fe.
NDI Error ellipse: s-maj=8.5km s-min=8.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=27.6.
MOS Error ellipse: s-maj=7.7km s-min=4.1km az=118.2.
IDC Error ellipse: s-maj=11.3km s-min=9.5km az=21.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=46.0. Felt at Baghdogra, Darjiling, Gangtok, Kalimpang, Shiliguri and Singtam. Also felt at Ilam, Nepal and [III] at Thimphu, Bhutan.
DMN Event type ke.
(228) Near east coast of eastern Honshu
ISC VI 03 01 33 26.8–.51 35.92N–.04 140.24E–.04 62–4 4.8b 335 0-153
NIED VI 03 01 33 00 36.00N 140.20E 62 4.7W ¶603243986
BJI VI 03 01 33 22.3 35.73N 140.51E 54 5.2b,4.8b
MOS VI 03 01 33 24.9–.99 35.96N 140.20E 57 5.0b,4.8b
ISCJB VI 03 01 33 26.2–.33 35.90N–.02 140.17E–.03 70–2 4.7b,4.8b
NEIC VI 03 01 33 26.5–.50 35.91N 140.16E 56–4 4.8b,4.8b
JMA VI 03 01 33 27.7–.10 35.98N 140.16E 62–1 4.5,4.8b
IDC VI 03 01 33 28.4–1.4 35.89N 140.08E 77–11 4.5,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ26.00000°,λ73.00000°. NP2:ϕ_s354.00000°,δ65.00000°,λ98.00000°. M_o1.09000×10^{16}
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=113.4.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.7km az=176.2.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=112.0. Felt [II] at Tokyo. Also felt at Chiba, Fujisawa, Mitaka and Sagamihara. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s166.00000°,δ87.00000°,λ-91.00000°. NP2: ϕ_s12.00000°,δ3.00000°,λ-64.00000°. Principal axes: T Plg42.0000°,Azm257.0000° ; N Plg1.0000°,Azm166.0000°; P Plg48.0000°,Azm74.0000°
IDC Error ellipse: s-maj=12.7km s-min=10.3km az=72.0.
(249) Luzon
MAN VI 03 01 36 33 18.30N 120.84E 13 4.7b,3.6L ¶601651102
MAN Event type fe. INTENSITY II - PASUQUIN AND BANGUI ILOCOS NORTE.
(227) Eastern Honshu
JMA VI 03 02 05 40.6 37.08N 140.81E 8–1 2.7 ¶600629272
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 03 05 31 15.3–1.2 35.55N–.05 141.10E–.07 31–7 4.1b 44 0-80
NIED VI 03 05 31 00 35.60N 141.10E 47 4.2W ¶16640729
ISCJB VI 03 05 31 14.0–.66 35.55N–.03 141.17E–.07 39–5 4.0b,3.2s
JMA VI 03 05 31 15.1–.10 35.56N 141.06E 36–1 3.5,3.2s
IDC VI 03 05 31 16.4–2.2 35.49N 141.09E 43–19 4.0,3.9
NEIC VI 03 05 31 16.0–.71 35.49N 141.12E 40–6 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ24.00000°,λ96.00000°. NP2:ϕ_s18.00000°,δ66.00000°,λ87.00000°. M_o2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.2km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.9km s-min=13.4km az=88.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.8km az=98.0.
(228) Near east coast of eastern Honshu
ISC VI 03 07 07 16.4–1.9 37.03N–.06 141.26E–.07 10–11 3.5b 22 0-61
NIED VI 03 07 07 00 36.90N 141.20E 14 3.5W ¶17205070
IDC VI 03 07 07 14.9–1.2 36.93N 141.28E 0 3.6,3.5b
ISCJB VI 03 07 07 16.4–1.1 36.99N–.05 141.32E–.07 22–6 3.5b,3.5b
JMA VI 03 07 07 18.2–.10 37.00N 141.18E 30–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ40.00000°,λ-111.00000°. NP2:ϕ_s64.00000°,δ53.00000°,λ-73.00000°. M_o2.23000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=26.9km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.3km az=29.4.
JMA Event type fe.
(232) Western Honshu
JMA VI 03 08 21 00.7 35.00N 135.59E 10–1 3.1

¶600629514

JMA Event type fe.

(173) Tonga Islands

ISC	**VI**	**03 09 50 02.0–.50**	**18.22S–.10**	**174.7W–.10**	**130**	**4.7b**	**58**	**5-149**
IDC	VI	03 09 49 59.3–2.9	18.38S	174.75W	104–26	4.4,4.2		¶16577377
NEIC	VI	03 09 49 59.5–1.0	18.27S	174.86W	104–9	4.8b,4.2		
ISCJB	VI	03 09 50 01.1–.34	18.39S–.07	174.89W–.08	130	4.5b,4.2		

ISC Event type fe.
NEIC Event type fe. Felt at Neiafu.
ISCJB Event type fe.

(159) North Island

ISC	**VI**	**03 10 41 43.5–.83**	**38.41S–.03**	**177.19E–.03**	**48–5**	**4.0b**	**228**	**0-155**
ISCJB	VI	03 10 41 42.9–.38	38.42S–.03	177.24E–.04	73–4	4.0b		¶16556042
IDC	VI	03 10 41 43.7–1.2	38.35S	177.13E	41–10	4.0,4.0		
WEL	VI	03 10 41 44.9–.11	38.34S	177.19E	46–2	4.4L,4.0		
NEIC	VI	03 10 41 44.3	38.31S	177.24E	51	4.4L,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.2km az=164.6.
IDC Error ellipse: s-maj=27.1km s-min=24.9km az=35.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt from Bay of Plenty to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Bay of Plenty-Gisborne-Hawke's Bay area. After WEL.

(228) Near east coast of eastern Honshu

ISC	**VI**	**03 12 44 39.2–.56**	**37.25N–.04**	**141.48E–.05**	**30–3**	**4.2b**	**83**	**0-152**
NIED	VI	03 12 44 00	37.30N	141.50E	14	3.9W		¶16722600
JMA	VI	03 12 44 38.7–.10	37.28N	141.47E	36–2	4.2		
IDC	VI	03 12 44 39.5–.49	37.24N	141.40E	30–3	4.1,4.0		
NEIC	VI	03 12 44 39.9–1.7	37.24N	141.51E	35–12	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ21.00000°,λ-85.00000°. NP2:ϕ_s50.00000°,δ69.00000°,λ-92.00000°. $M_0$8.52000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=10.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.6km az=106.0. Recorded [2 JMA] in Fukushima and Miyagi.

(60) Oaxaca

ISC	**VI**	**03 14 21 23.6–.52**	**17.87N–.04**	**95.18W–.04**	**125–4**	**4.6b**	**534**	**1-148**
ISCJB	VI	03 14 21 23.0–.26	17.87N–.02	95.06W–.02	137–2	4.5b		¶16577378
IDC	VI	03 14 21 23.6–.41	17.95N	94.97W	120–4	4.6,4.4		
NEIC	VI	03 14 21 25.0	17.69N	95.31W	135	4.9,4.6b		
MEX	VI	03 14 21 25.0–1.4	17.78N	95.21W	123–13	4.9,4.6b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.2km az=30.3.
IDC Error ellipse: s-maj=15.4km s-min=7.3km az=64.0.
NEIC Event type fe. Felt [III] at Oaxaca. Also felt at Coxcatlan, Esperanza, Tehuacan and Zinacatepec. After MEX.
MEX Error ellipse: s-maj=9.2km s-min=5.8km az=-1.0.

(117) Southern Peru

ISC	**VI**	**03 14 51 34.0–.88**	**16.02S–.08**	**74.04W–.09**	**54**		**16**	**5-135**
NEIC	VI	03 14 51 35.0	15.93S	73.98W	70	4.0		¶16856195
IDC	VI	03 14 51 37.2–2.5	15.86S	73.88W	76–23	4.3,4.0		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Chala. After ARE.
IDC Error ellipse: s-maj=39.6km s-min=25.9km az=47.0.

(227) Eastern Honshu

ISC	**VI**	**03 16 00 15.3–.27**	**37.04N–.02**	**141.08E–.03**	**22–2**	**5.7b,5.0s**	**1640**	**0-165**
NIED	VI	03 16 00 00	37.00N	141.20E	11	5.4W,5.0s		¶602918555
BJI	VI	03 16 00 10.3	36.89N	141.40E	25	5.5s,5.4b		
GCMT	VI	03 16 00 13.9–.10	37.03N	141.18E	18–0	5.4W,5.4b		
JMA	VI	03 16 00 14.1–.10	36.99N	141.21E	30–1	5.5,5.4b		
MOS	VI	03 16 00 14.0–.94	37.11N	141.07E	24	5.8b,5.4s		
NEIC	VI	03 16 00 15.0–.09	37.07N	140.91E	17	5.7b,5.5W		
ISCJB	VI	03 16 00 15.5–.37	37.03N–.01	141.06E–.02	31–2	5.6b,5.0s		
NEIC	VI	03 16 00 16.0–.00	36.87N	141.15E	24	5.6b,5.0s		
IDC	VI	03 16 00 17.2–2.0	37.01N	141.01E	33–14	5.4,5.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ34.00000°,λ-73.00000°. NP2:ϕ_s47.00000°,δ57.00000°,λ-101.00000°. $M_0$1.31000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c184; s120,c271;Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.46±.03 $M_{\theta\theta}$1.03±.02; $M_{\phi\phi}$0.43±.02; $M_{r\theta}$-0.53±.04; $M_{\theta\phi}$0.85±.01; $M_{\phi r}$0.08±.04; Best double couple: NP1:ϕ_s69.00000°,δ54.00000°,λ-72.00000°. NP2:ϕ_s220.00000°,δ40.00000°,λ-113.00000°. Principal axes: T 1.6840,Plg7.0000°,Azm146.0000°; N -0.0780,Plg14.0000°,Azm238.0000°; P -1.6030,Plg74.0000°,Azm30.0000° $M_0$1.64400×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=99.7.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=143.0. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [5L JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.29 $M_{\theta\theta}$1.00 $M_{\phi\phi}$0.29 $M_{r\theta}$-0.64 $M_{\theta\phi}$1.06 $M_{\phi r}$-0.54 Best double couple: NP1:ϕ_s51.00000°,δ59.00000°,λ-94.00000°. NP2:ϕ_s239.00000°,δ31.00000°,λ-83.00000°. Principal axes: T 1.9700,Plg14.0000°,Azm144.0000°; N -0.4700,Plg3.0000°,Azm53.0000°; P -1.5100,Plg75.0000°,Azm310.0000° $M_0$1.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=147.5.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20 $M_{\theta\theta}$0.60 $M_{\phi\phi}$0.60 $M_{r\theta}$-1.00 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.30 Best double couple: NP1:ϕ_s63.00000°,δ66.00000°,λ-76.00000°. NP2:ϕ_s212.00000°,δ27.00000°,λ-118.00000°. Principal axes: T 1.4000,Plg20.0000°,Azm143.0000°; N 0.2000,Plg12.0000°,Azm238.0000°; P -1.7000,Plg65.0000°,Azm357.0000° $M_0$2.00000×10^{17}
IDC Error ellipse: s-maj=11.9km s-min=8.6km az=96.0.

(232) Western Honshu

ISC	**VI**	**03 16 57 32.6–.55**	**35.07N–.03**	**132.66E–.02**	**19–2**	**4.9b,4.3s**	**447**	**0-154**
NIED	VI	03 16 57 00	35.10N	132.70E	11	4.9W,4.3s		¶16556052
ISCJB	VI	03 16 57 30.4–.39	35.12N–.02	132.57E–.02	11–2	4.9b,4.3s		
BJI	VI	03 16 57 30.7	35.04N	132.96E	33	5.0s,4.9b		
JMA	VI	03 16 57 31.0	35.10N	132.67E	11–1	5.2,4.9b		
NEIC	VI	03 16 57 31.6–.24	35.03N	132.33E	10	5.1b,4.9b		
MOS	VI	03 16 57 31.6–2.0	35.00N	132.30E	33	5.1b,4.3s		
IDC	VI	03 16 57 34.4–3.1	35.02N	132.50E	33–23	4.5,4.5		
GCMT	VI	03 16 57 35.6–.20	35.12N	132.51E	15–1	5.0W,4.5		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ68.00000°,λ177.00000°. NP2:ϕ_s336.00000°,δ87.00000°,λ22.00000°. $M_0$2.60000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=168.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s259.00000°,δ79.00000°,λ149.00000°. NP2:ϕ_s355.00000°,δ60.00000°,λ12.00000°. Principal axes: T Plg29.0000°,Azm213.0000°; N Plg58.0000°,Azm61.0000°; P Plg13.0000°,Azm310.0000°
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=161.0. Felt [III] at Matsue and [II] at Iwakuni. Felt in much of western Honshu and at Matsuyama, Shikoku. Recorded [4 JMA] in Hiroshima, Shimane and Tottori.
MOS Error ellipse: s-maj=6.0km s-min=4.1km az=106.4.
IDC Error ellipse: s-maj=12.6km s-min=11.8km az=75.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c38; s95,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.59±.10 $M_{\theta\theta}$2.96±.10; $M_{\phi\phi}$-2.37±.08; $M_{r\theta}$-1.44±.33; $M_{\theta\phi}$-1.67±.07; $M_{\phi r}$-0.56±.28; Best double couple: NP1:ϕ_s63.00000°,δ87.00000°,λ-153.00000°. NP2:ϕ_s331.00000°,δ63.00000°,λ-4.00000°. Principal axes: T 3.7960,Plg16.0000°,Azm194.0000°; N -0.5850,Plg63.0000°,Azm69.0000°; P -3.2130,Plg21.0000°,Azm290.0000° $M_0$3.50400×10^{16}

(232) Western Honshu

JMA	**VI**	**03 17 03 22.6**	**35.10N**	**132.67E**	**10–1**	**3.7**		

¶600629966

JMA Event type fe.

(70) Guatemala

ISC	**VI**	**03 19 20 10.7–.50**	**14.25N–.05**	**91.75W–.04**	**55–3**	**4.5b,3.6s**	**376**	**2-151**
IDC	VI	03 19 20 11.3–.82	14.51N	91.12W	54–5	4.2,4.2		¶16577379
MEX	VI	03 19 20 13.3–.84	14.06N	91.97W	20–118	4.6,4.2		
CASC	VI	03 19 20 13.3–2.2	14.29N	91.55W	75	4.6b,4.2L		
NEIC	VI	03 19 20 13.2–.82	14.22N	91.59W	79–7	4.6b,4.6		

ISC Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=11.0km az=49.0.
MEX Error ellipse: s-maj=92.8km s-min=39.8km az=-1.0.
CASC Error ellipse: s-maj=9.6km s-min=12.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=214.0. Felt at Quetzaltenango and San Marcos La Laguna.

(224) Hokkaido region

ISC	**VI**	**03 21 15 43.7–1.3**	**41.69N–.04**	**142.22E–.03**	**6–9**	**3.7b**	**40**	**1-76**
NIED	VI	03 21 15 00	41.70N	142.20E	35	3.8W		¶17205123
JMA	VI	03 21 15 46.9–.10	41.68N	142.22E	38	3.7		
IDC	VI	03 21 15 50.0–2.1	41.77N	142.17E	53–18	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ16.00000°,λ152.00000°. NP2:ϕ_s19.00000°,δ83.00000°,λ76.00000°. $M_0$6.07000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s39.00000°,δ66.00000°,λ-73.00000°. NP2: ϕ_s182.00000°,δ30.00000°,λ-124.00000°. Principal axes: T Plg19.0000°,Azm116.0000°; N Plg16.0000°,Azm212.0000°; P Plg65.0000°,Azm339.0000°
IDC Error ellipse: s-maj=25.6km s-min=13.5km az=110.0.

(162) South Island

WEL	**VI**	**03 23 07 32.7–.08**	**43.63S**	**172.36E**	**7–0**	**4.1L**		
NEIC	VI	03 23 07 32.7	43.62S	172.37E	8	4.0L		¶16557028

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(224) Hokkaido region

ISC	**VI**	**04 00 03 31.2–.69**	**43.44N–.06**	**144.88E–.04**	**138–5**	**3.9b**	**60**	**0-84**
NIED	VI	04 00 03 00	43.50N	145.00E	160	4.4W		¶17205136
MOS	VI	04 00 03 30.3–.79	43.40N	144.87E	150	3.9b		
ISCJB	VI	04 00 03 30.4–.42	43.46N–.06	144.87E–.05	142–3	3.8b		
JMA	VI	04 00 03 32.2–.10	43.49N	144.85E	135–1	3.7		
SKHL	VI	04 00 03 32.8–.10	43.50N	144.93E	139–8	4.8b,4.7s		
IDC	VI	04 00 03 35.1–2.9	43.98N	144.67E	143–9	4.0,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ68.00000°,λ18.00000°. NP2:ϕ_s51.00000°,δ73.00000°,λ157.00000°. $M_0$4.15000×10^{15}
MOS Error ellipse: s-maj=17.7km s-min=13.9km az=81.2.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.1km az=159.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=63.5km s-min=14.9km az=165.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 00 03 35.0–.75**	**37.24N–.04**	**141.50E–.05**	**35–2**	**4.2b,3.4s**	**96**	**1-147**
ISCJB	VI	04 00 03 31.0–.73	37.21N–.03	141.62E–.04	21–4	4.1b,3.3s		¶16722601
JMA	VI	04 00 03 33.7–.10	37.27N	141.48E	36–2	4.3,3.3s		
MOS	VI	04 00 03 33.3–1.1	37.30N	141.47E	33	4.7b,3.3s		
NEIC	VI	04 00 03 35.0–1.9	37.20N	141.45E	33–13	4.5b,3.3s		
IDC	VI	04 00 03 35.9–2.4	37.21N	141.42E	39–20	4.0,4.0		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=24.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=7.0km az=98.2.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.9km az=90.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=15.9km s-min=12.2km az=89.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 00 40 26.6–1.9**	**38.37N–.04**	**142.22E–.06**	**16–10**	**3.7b**	**35**	**1-89**
NIED	VI	04 00 40 00	38.40N	142.20E	29	3.7W		¶17205140
ISCJB	VI	04 00 40 27.5–.96	38.38N–.04	142.21E–.07	34–9	3.6b,3.2s		
JMA	VI	04 00 40 28.0–.10	38.42N	142.16E	32–1	3.9,3.2s		
IDC	VI	04 00 40 30.2–2.8	38.34N	142.10E	41–25	3.7,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ46.00000°,λ-34.00000°. NP2:ϕ_s258.00000°,δ67.00000°,λ-131.00000°. $M_0$3.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.4km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.3km s-min=16.6km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 01 41 07.4–2.2**	**36.94N–.05**	**141.17E–.07**	**2–14**	**3.5b**	**20**	**0-61**
NIED	VI	04 01 41 00	37.00N	141.20E	11	3.6W		¶17205145
IDC	VI	04 01 41 07.3–1.4	36.93N	141.25E	0	3.7,3.4		
ISCJB	VI	04 01 41 08.1–1.3	36.99N–.05	141.33E–.07	18–9	3.5b,3.4		
JMA	VI	04 01 41 10.0–.10	37.00N	141.19E	28–1	4.1,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ67.00000°,λ179.00000°. NP2:ϕ_s275.00000°,δ89.00000°,λ23.00000°. $M_0$2.40000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=26.1km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.5km az=32.7.
JMA Event type fe.

(134) Off coast of central Chile

ISC	**VI**	**04 02 20 46.6–1.0**	**37.57S–.07**	**73.97W–.10**	**35**	**3.8b**	**26**	**1-145**
SJA	VI	04 02 20 38.4–.34	40.47S	71.97W	139–32	3.1W,2.9L		¶16646371
IDC	VI	04 02 20 40.9–2.1	37.48S	74.12W	0	4.1L,4.0		
NEIC	VI	04 02 20 42.0	37.69S	74.19W	29	4.1L,3.8b		
GUC	VI	04 02 20 42.4–.41	37.69S	74.19W	29–5	4.1L,3.8b		
ISCJB	VI	04 02 20 44.8–.83	37.53S–.07	73.97W–.08	33	3.7b,3.6s		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Lebu and Puren. After GUC.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 03 00 16.6–1.7**	**36.45N–.04**	**140.97E–.05**	**1–10**	**3.8b,2.9s**	**32**	**0-147**
NIED	VI	04 03 00 00	36.50N	140.90E	5	3.9W,2.9s		¶17205151
IDC	VI	04 03 00 16.2–.67	36.29N	141.05E	0	3.9,3.8		
JMA	VI	04 03 00 17.5	36.51N	140.94E	14–1	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ37.00000°,λ-31.00000°. NP2:ϕ_s127.00000°,δ72.00000°,λ-123.00000°. $M_0$6.77000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=15.0km az=99.0.
JMA Event type fe.

(227) Eastern Honshu

ISC	**VI**	**04 03 32 59.0–.98**	**40.28N–.04**	**140.42E–.04**	**13–6**	**4.2b,3.6s**	**52**	**0-146**
NIED	VI	04 03 32 00	40.20N	140.40E	8	3.9W,3.6s		¶16556904
ISCJB	VI	04 03 32 58.5–.47	40.26N–.03	140.37E–.04	21–4	4.0b,3.7s		
JMA	VI	04 03 32 58.5	40.24N	140.38E	13–1	4.1,3.7s		
NEIC	VI	04 03 33 02.8–.70	40.33N	140.34E	37–7	4.3b,3.7s		
IDC	VI	04 03 33 04.9–2.2	40.47N	140.23E	50–20	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ72.00000°,λ168.00000°. NP2:ϕ_s131.00000°,δ79.00000°,λ18.00000°. $M_0$9.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s309.00000°,δ89.00000°,λ-25.00000°. NP2:ϕ_s39.00000°,δ65.00000°,λ-179.00000°. Principal axes: T Plg17.0000°,Azm357.0000°; N Plg65.0000°,Azm127.0000°; P Plg18.0000°,Azm261.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=6.2km az=120.0. Recorded [3 JMA] in Akita.
IDC Error ellipse: s-maj=17.2km s-min=13.4km az=119.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 03 37 15.9–.36**	**38.35N–.04**	**141.28E–.04**	**78–2**	**4.6b**	**377**	**0-152**
NIED	VI	04 03 37 00	38.30N	141.30E	77	4.4W		¶16558164
BJI	VI	04 03 37 13.4	38.20N	141.29E	78	4.8b,4.7b		
IDC	VI	04 03 37 15.6–.41	38.37N	141.21E	74–3	4.5,4.4		
JMA	VI	04 03 37 15.8	38.27N	141.27E	76–1	4.4,4.4		
ISCJB	VI	04 03 37 15.9–.23	38.43N–.02	141.15E–.03	82–2	4.5b,4.4		
MOS	VI	04 03 37 15.7–.94	38.52N	141.12E	79	4.9b,4.4		
NEIC	VI	04 03 37 17.0–.32	38.41N	141.08E	80–3	4.7b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ46.00000°,λ140.00000°. NP2:ϕ_s162.00000°,δ63.00000°,λ52.00000°. $M_0$4.53000×10^{15}
IDC Error ellipse: s-maj=10.8km s-min=7.3km az=126.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=139.3.

MOS Error ellipse: s-maj=7.1km s-min=4.8km az=89.5.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=147.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 06 29 41.5–1.0**	**38.00N–.04**	**141.64E–.07**	**58–9**	**3.7b**	**43**	**1-146**
NIED	VI	04 06 29 00	38.00N	141.60E	59	3.9W		**¶17205164**
ISCJB	VI	04 06 29 40.8–.55	38.00N–.03	141.59E–.07	67–4	3.6b		
JMA	VI	04 06 29 42.1	38.02N	141.51E	62–1	3.8		
IDC	VI	04 06 29 43.4–2.0	37.99N	141.55E	77–19	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ42.00000°,λ80.00000°. NP2:ϕ_s39.00000°,δ49.00000°,λ98.00000°. M_o7.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.9km az=16.9.
JMA Event type fe.
IDC Error ellipse: s-maj=19.0km s-min=16.0km az=97.0.

(709) Southeastern Afghanistan

ISC	**VI**	**04 06 29 54.7–.52**	**34.38N–.05**	**69.37E–.05**	**24**	**4.2b,3.1s**	**127**	**0-84**
ISCJB	VI	04 06 29 53.1–.30	34.45N–.03	69.50E–.04	24	4.2b,3.1s		**¶16577383**
BJI	VI	04 06 29 53.1	34.72N	69.31E	17	4.7b,4.5b		
MOS	VI	04 06 29 54.6–.96	34.51N	69.44E	33	4.4b,4.5b		
NEIC	VI	04 06 29 54.4–1.4	34.45N	69.36E	16–8	4.5b,4.5b		
NNC	VI	04 06 29 58.4–3.9	34.46N	69.54E	108–46	4.2,3.7b		
IDC	VI	04 06 30 01.7–3.0	34.64N	69.57E	79–26	4.0,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=150.0.
MOS Error ellipse: s-maj=11.1km s-min=5.2km az=84.1.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=8.0km az=152.0. Felt [III] at Kabul. Also felt at Bagrami, Charikar and Jabal us Saraj.
NNC Event type se. Error ellipse: s-maj=31.2km s-min=29.5km az=101.0.
IDC Error ellipse: s-maj=19.4km s-min=14.0km az=9.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 07 19 34.6–1.0**	**37.25N–.05**	**141.64E–.09**	**40–8**	**3.9b**	**29**	**1-74**
NIED	VI	04 07 19 00	37.30N	141.60E	35	3.9W		**¶17205166**
IDC	VI	04 07 19 29.3–3.6	36.49N	142.32E	52–26	3.9,3.7		
ISCJB	VI	04 07 19 33.5–1.1	37.25N–.05	141.70E–.09	47–8	3.9b,3.4s		
JMA	VI	04 07 19 34.9–.10	37.29N	141.59E	45–2	3.7,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ19.00000°,λ69.00000°. NP2:ϕ_s47.00000°,δ72.00000°,λ97.00000°. M_o8.34000×10^{14}
IDC Error ellipse: s-maj=40.3km s-min=23.5km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.8km az=22.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(136) Central Chile

ISC	**VI**	**04 10 19 09.5–1.0**	**40.3S–.20**	**72.1W–.10**	**35**	**3.8b**	**19**	**1-157**
GUC	VI	04 10 19 03.9–.46	40.40S	72.09W	3–2	3.9L		**¶16725941**
NEIC	VI	04 10 19 03.0	40.40S	72.09W	3	3.9L		
IDC	VI	04 10 19 05.0–1.3	40.25S	71.99W	0	5.1L,4.2		
ISCJB	VI	04 10 19 07.8–.93	40.3S–.10	72.1W–.10	33	3.9b,4.2		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Lago Ranco. After GUC.
ISCJB Event type fe.

(136) Central Chile

ISC	**VI**	**04 10 46 02.5–1.5**	**40.4S–.30**	**72.1W–.10**	**35**	**3.9b**	**10**	**1-86**
GUC	VI	04 10 45 58.6–.40	40.46S	72.11W	19–3	4.2L		**¶16725943**
NEIC	VI	04 10 45 58.0	40.46S	72.11W	19	4.3L		
IDC	VI	04 10 45 59.6–1.3	40.10S	71.84W	0	4.0,3.9		
ISCJB	VI	04 10 46 02.2–.69	40.2S–.10	71.98W–.09	33	3.7b,3.9		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Lago Ranco. After GUC.
ISCJB Event type fe.

(224) Hokkaido region

ISC	**VI**	**04 11 01 34.6–.43**	**43.60N–.04**	**144.47E–.04**	**135–3**	**4.7b**	**312**	**0-114**
NIED	VI	04 11 01 00	43.50N	144.50E	140	4.4W		**¶16558738**
BJI	VI	04 11 01 33.8	43.64N	144.61E	145	4.7b,4.6b		
ISCJB	VI	04 11 01 34.3–.19	43.55N–.03	144.50E–.03	145–1	4.6b,4.6b		
MOS	VI	04 11 01 34.2–.94	43.65N	144.42E	141	4.9b,4.6b		
JMA	VI	04 11 01 35.6–.10	43.52N	144.51E	143–1	4.4,4.6b		
NEIC	VI	04 11 01 35.2–.38	43.58N	144.48E	138–3	4.6b,4.6b		
SKHL	VI	04 11 01 35.8–.70	43.57N	144.53E	144–4	5.4s,5.0b		
IDC	VI	04 11 01 36.2–.89	43.63N	144.48E	146–6	4.6,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ48.00000°,λ179.00000°. NP2:ϕ_s94.00000°,δ90.00000°,λ42.00000°. M_o4.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=144.2.
MOS Error ellipse: s-maj=7.6km s-min=4.9km az=104.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s99.00000°,δ83.00000°,λ36.00000°. NP2: ϕ_s3.00000°,δ54.00000°,λ171.00000°. Principal axes: T Plg30.0000°,Azm327.0000° ; N Plg53.0000°,Azm108.0000°; P Plg19.0000°,Azm226.0000°
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=134.0. Recorded [2 JMA] in eastern Hokkaido.
IDC Error ellipse: s-maj=11.7km s-min=9.5km az=121.0.

(709) Southeastern Afghanistan

ISC	**VI**	**04 12 01 16.2–.44**	**34.48N–.05**	**69.42E–.03**	**24**	**4.2b,3.2s**	**155**	**0-95**
BJI	VI	04 12 01 09.1	34.45N	69.10E	13	4.5b,4.4b		**¶16557032**
IDC	VI	04 12 01 12.6–.62	34.53N	69.49E	0	4.3,4.2		
NEIC	VI	04 12 01 14.8–1.3	34.47N	69.47E	16–8	4.3b,4.2		
ISCJB	VI	04 12 01 14.3–.30	34.50N–.03	69.59E–.04	24	4.2b,3.2s		
MOS	VI	04 12 01 15.2–.99	34.55N	69.61E	25	4.4b,3.2s		
NNC	VI	04 12 01 22.7–3.7	34.64N	69.47E	131–15	4.7,3.8b		

ISC Event type fe.
IDC Error ellipse: s-maj=14.9km s-min=14.0km az=36.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=151.0. Felt [III] at Kabul. Also felt at Bagrami and Charikar.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=143.5.
MOS Error ellipse: s-maj=9.1km s-min=4.8km az=85.4.
NNC Event type se. Error ellipse: s-maj=31.3km s-min=25.5km az=59.0.

(136) Central Chile

ISC	**VI**	**04 12 23 52.8–.49**	**40.37S–.06**	**71.95W–.05**	**10**	**4.8b,3.8s**	**55**	**1-160**
SJA	VI	04 12 23 48.9–.60	40.87S	73.16W	275–251	4.6L,3.8s		**¶16725942**
GUC	VI	04 12 23 49.9–.38	40.49S	72.09W	13–4	4.4L,3.8s		
NEIC	VI	04 12 23 49.0	40.49S	72.09W	13	4.8b,4.4L		
ISCJB	VI	04 12 23 52.4–.38	40.37S–.04	71.95W–.05	10	4.5b,3.9s		
IDC	VI	04 12 23 52.6–.82	40.19S	71.83W	0	4.3,4.1b		

ISC Event type fe.
SJA Error ellipse: s-maj=49.4km s-min=67.7km az=-1.0.
GUC Error ellipse: s-maj=1.9km s-min=1.7km az=-1.0.
NEIC Event type fe. Felt [III] at Lago Ranco. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=139.1.
IDC Error ellipse: s-maj=27.8km s-min=11.3km az=38.0.

(136) Central Chile

ISC	**VI**	**04 12 26 28.9–.54**	**40.5S–.10**	**72.03W–.09**	**35**	**4.7b**	**40**	**1-173**
NEIC	VI	04 12 26 23.0	40.48S	72.12W	15	4.3L		**¶16725944**
IDC	VI	04 12 26 23.5–.80	40.59S	72.14W	0	5.3L,4.7		
GUC	VI	04 12 26 23.6–.39	40.48S	72.12W	15–4	4.3L,4.7		
ISCJB	VI	04 12 26 27.4–.58	40.47S–.10	72.10W–.09	33	4.7b,4.7		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Puyehue. After GUC.
ISCJB Event type fe.

(136) Central Chile

ISC	**VI**	**04 12 56 48.8–2.3**	**40.7S–.30**	**72.5W–.20**	**35**	**3.6b**	**8**	**1-87**
NEIC	VI	04 12 56 43.0	40.54S	72.32W	2	3.6L		**¶16725947**
IDC	VI	04 12 56 44.0–2.7	40.87S	72.35W	0	5.4L,4.0		
GUC	VI	04 12 56 43.0–.36	40.54S	72.32W	2–1	3.6L,4.0		
ISCJB	VI	04 12 56 47.1–2.0	40.7S–.20	72.5W–.20	33	3.5b,4.0		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Lago Ranco. After GUC.
ISCJB Event type fe.

(136) Central Chile

ISC	**VI**	**04 13 20 55.9–.41**	**40.36S–.06**	**72.01W–.06**	**35**	**4.6b**	**117**	**1-175**
IDC	VI	04 13 20 50.3–.64	40.47S	72.10W	0	4.6,4.5		**¶16722604**
GUC	VI	04 13 20 51.7–.41	40.42S	72.07W	13–4	4.4L,4.5		
NEIC	VI	04 13 20 51.0	40.42S	72.06W	13	4.7b,4.4L		
ISCJB	VI	04 13 20 55.5–.32	40.29S–.06	71.80W–.07	33	4.5b,4.4L		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Puyehue. After GUC.
ISCJB Event type fe.

(112) Peru-Brazil border region

ISC	**VI**	**04 13 37 44.7–.35**	**7.77S–.04**	**74.47W–.06**	**152–3**	**5.1b**	**1059**	**4-168**
MOS	VI	04 13 37 41.4–1.6	7.58S	74.46W	139	5.1b		**¶16557035**
NEIC	VI	04 13 37 42.0	7.74S	74.63W	141	5.2b		
GCMT	VI	04 13 37 42.0–.30	7.84S	74.46W	154–2	5.0W		
BJI	VI	04 13 37 44.3	7.70S	74.30W	140	5.1b		
ISCJB	VI	04 13 37 44.2–.51	7.65S–.03	74.46W–.03	156–4	5.0b		
IDC	VI	04 13 37 45.4–.37	7.64S	74.32W	152–3	5.1,4.9		

ISC Event type fe.
MOS Error ellipse: s-maj=16.0km s-min=5.9km az=114.0.
NEIC Event type fe. Felt [III] at Pucallpa. Also felt at Barranca. After ARE.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c43; s81,c114; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.59±.10 $M_{\theta\theta}$-0.20±.10; $M_{\phi\phi}$3.79±.13; $M_{r\theta}$-0.31±.09; $M_{\theta\phi}$-0.75±.13; $M_{\phi r}$-0.42±.13; Best double couple: NP1:ϕ_s356.00000° ,δ48.00000°,λ-81.00000°. NP2:ϕ_s163.00000°,δ43.00000°,λ-100.00000°. Principal axes: T 3.9430,Plg3.0000°,Azm80.0000°; N -0.2940,Plg7.0000°,Azm170.0000° ; P -3.6510,Plg83.0000°,Azm327.0000° M_o3.79700×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=135.4.
IDC Error ellipse: s-maj=13.0km s-min=8.3km az=55.0.

(136) Central Chile

ISC	**VI**	**04 14 06 36.1–1.1**	**40.3S–.10**	**71.99W–.06**	**35**		**10**	**1-50**
NEIC	VI	04 14 06 32.0	40.40S	72.02W	5	4.4b,4.3L		**¶17529478**
GUC	VI	04 14 06 32.2–.74	40.40S	72.02W	5–6	4.3L,4.3L		
ISCJB	VI	04 14 06 35.0–.75	40.16S–.08	71.90W–.07	33	4.4b,4.3L		

ISC Event type fe.
NEIC Event type fe. Felt [V] at Rio Bueno and [IV] at Lago Ranco. After GUC.
ISCJB Event type fe.

(136) Central Chile

ISC	**VI**	**04 15 05 46.3–.43**	**40.42S–.07**	**72.07W–.06**	**35**	**4.6b,4.0s**	**75**	**1-175**
GUC	VI	04 15 05 39.6–.69	40.54S	72.16W	7–7	4.7L,4.0s		**¶16557041**
NEIC	VI	04 15 05 39.0	40.54S	72.16W	7	4.7b,4.7L		
IDC	VI	04 15 05 41.7–.66	40.40S	72.03W	0	5.7L,4.4		
ISCJB	VI	04 15 05 44.6–.33	40.44S–.05	72.07W–.07	33	4.5b,4.0s		

ISC Event type fe.
NEIC Event type fe. Felt [V] at Rio Bueno and [IV] at Lago Ranco. Also felt at Panguipulli. Felt at Bariloche, Argentina. After GUC.
ISCJB Event type fe.

(136) Central Chile

ISC	**VI**	**04 16 03 48.9–2.2**	**40.6S–.20**	**72.2W–.10**	**35**		**10**	**1-75**
NEIC	VI	04 16 03 44.0	40.55S	72.16W	16	4.7L		**¶16856318**
GUC	VI	04 16 03 44.3–.50	40.55S	72.17W	16–9	4.7L		
IDC	VI	04 16 03 45.7–3.1	40.62S	72.18W	0	5.4L,4.0		
ISCJB	VI	04 16 03 47.8–1.8	40.6S–.20	72.2W–.10	33	3.2b,4.0		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Rio Bueno. After GUC.
ISCJB Event type fe.

(136) Central Chile

ISC	**VI**	**04 16 24 42.1–1.6**	**40.4S–.20**	**72.1W–.10**	**35**	**3.7b**	**12**	**1-147**
NEIC	VI	04 16 24 38.0	40.48S	72.12W	13	4.7L		**¶16856319**
GUC	VI	04 16 24 38.1–.83	40.48S	72.13W	13–10	4.7L		
IDC	VI	04 16 24 39.5–4.1	40.51S	72.14W	13–22	5.3L,4.0		
ISCJB	VI	04 16 24 41.3–1.2	40.2S–.10	72.1W–.10	33	3.6b,4.0		

ISC Event type fe.
NEIC Event type fe. Felt [V] at Puyehue, [IV] at Futrono and Lago Ranco, [III] at Puerto Montt and [II] at Los Muermos. After GUC.
ISCJB Event type fe.

(145) Southern Chile-Argentina border region

ISC	**VI**	**04 16 28 46.6–.41**	**40.61S–.04**	**72.25W–.04**	**10**	**4.7b,4.4s**	**82**	**1-175**
GUC	VI	04 16 28 44.3–.70	40.58S	72.25W	18–3	4.7L,4.4s		**¶16557046**
IDC	VI	04 16 28 45.7–.83	40.56S	72.07W	0	5.8L,4.6		
ISCJB	VI	04 16 28 46.0–.26	40.66S–.03	72.08W–.05	10	4.7b,4.4s		
GCMT	VI	04 16 28 47.9–.30	40.59S	72.22W	21–1	5.0W,4.4s		
NEIC	VI	04 16 28 47.7–2.5	40.55S	71.90W	10–15	4.8b,4.7L		

ISC Event type fe.
GUC Error ellipse: s-maj=1.7km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=26.2km s-min=11.8km az=17.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=14.8.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c34; s78,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.19±.18 $M_{\theta\theta}$-1.95±.14; $M_{\phi\phi}$3.14±.16; $M_{r\theta}$-1.67±.29; $M_{\theta\phi}$2.84±.10; $M_{\phi r}$-0.13±.23; Best double couple: NP1:ϕ_s65.00000°,δ77.00000° ,λ-27.00000°. NP2:ϕ_s162.00000°,δ64.00000°,λ-165.00000°. Principal axes: T 4.5260,Plg8.0000°,Azm116.0000°; N -0.5170,Plg60.0000°,Azm221.0000° ; P -4.0090,Plg28.0000°,Azm21.0000° M_o4.26700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=15.2km s-min=8.5km az=83.0. Felt at Osorno, Purranque and Valdivia. Felt [II] at Bariloche, Argentina.

(228) Near east coast of eastern Honshu

ISC	**VI**	**04 16 37 54.1–1.5**	**39.00N–.04**	**142.23E–.08**	**30–10**	**3.6b**	**33**	**0-73**
NIED	VI	04 16 37 00	39.10N	142.10E	44	3.8W		**¶17205239**
ISCJB	VI	04 16 37 55.0–.81	39.07N–.04	142.19E–.09	50–7	3.6b		
JMA	VI	04 16 37 56.1–.10	39.09N	142.14E	45–1	3.9		
IDC	VI	04 16 37 58.6–2.4	39.05N	142.35E	73–21	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ36.00000°,λ-168.00000°. NP2:ϕ_s173.00000°,δ83.00000°,λ-54.00000°. M_o5.42000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.6km az=15.3.
JMA Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=14.1km az=104.0.

(145) Southern Chile-Argentina border region

ISC	**VI**	**04 17 54 06.1–.43**	**40.45S–.06**	**72.10W–.05**	**10**	**4.9b,4.1s**	**99**	**1-177**
GUC	VI	04 17 54 02.0–.49	40.66S	72.26W	14–5	4.8L,4.1s		**¶16577391**
ISCJB	VI	04 17 54 05.9–.39	40.38S–.06	71.95W–.06	10	4.9b,4.0s		
IDC	VI	04 17 54 05.7–1.5	40.43S	72.03W	0	5.5L,4.5		
NEIC	VI	04 17 54 07.5–1.8	40.46S	71.74W	14–10	4.9b,4.8L		
BJI	VI	04 17 54 08.3	40.30S	71.70W	21	5.2s,5.1b		

ISC Event type fe.
GUC Error ellipse: s-maj=2.8km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.9km az=32.3.
IDC Error ellipse: s-maj=41.3km s-min=12.9km az=28.0.
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=6.3km az=80.0. Felt at Bariloche. Also felt at Osorno, Chile.

(381) Central Italy

ISC	**VI**	**04 18 06 51.2–.68**	**43.85N–.02**	**11.94E–.01**	**11–4**	**4.0b**	**493**	**0-75**
GEN	VI	04 18 06 48.1	43.85N	12.11E	1	3.6L		**¶16557055**
ROM	VI	04 18 06 50.2–.09	43.87N	11.98E	7–1	3.6L		
ISCJB	VI	04 18 06 50.4–.18	43.90N–.01	11.93E–.01	23–2	3.7b		
LDG	VI	04 18 06 50.2–.11	43.87N	12.11E	2	3.7L		
NEIC	VI	04 18 06 50.0	43.89N	11.98E	9	3.3L		
PDG	VI	04 18 06 50.7–.95	43.89N	11.98E	12–1	3.7L		
CSEM	VI	04 18 06 50.7–.08	43.85N	11.95E	10	3.8L		
IDC	VI	04 18 06 50.3–.83	43.93N	12.03E	0	3.8,3.7		
PRU	VI	04 18 06 52.8	43.91N	11.99E	21	3.8,3.7		
STR	VI	04 18 06 59.8–.21	44.27N	11.19E	10	3.7L,3.7		

ISC Event type fe.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=10.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=17.9.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=5.0.
NEIC Event type fe. Felt at Florence and in parts of Emilia-Romagna and Tuscany. After ROM.
PDG Event type ke. Error ellipse: s-maj=1.1km s-min=1.2km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=23.0.
IDC Error ellipse: s-maj=14.3km s-min=10.8km az=96.0.
STR Event type ke.

(136) Central Chile

ISC	**VI**	**04 18 26 39.3–.82**	**40.51S–.09**	**72.10W–.07**	**10**	**3.6b**	**18**	**1-75**

NEIC VI 04 18 26 38.0 40.52S 72.21W 9 4.5L,4.0b ¶16856329
IDC VI 04 18 26 38.9–3.2 40.60S 72.20W 0 5.0L,4.3
GUC VI 04 18 26 38.0–.44 40.52S 72.21W 9–3 4.5L,4.3
ISC Event type fe.
NEIC Event type fe. Felt [V] at Puyehue. Associated with eruption at the Complejo Volcanico Puyehue-Cordon Caulle. After GUC.
IDC Error ellipse: s-maj=67.6km s-min=16.0km az=22.0.
GUC Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0.

(228) Near east coast of eastern Honshu

JMA VI 04 19 08 02.7–.10 37.19N 141.37E 49–1 3.4
NIED VI 04 19 08 00 37.20N 141.40E 5 3.9W ¶600631425
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ5.00000°,λ114.00000°. NP2:ϕ_s2.00000°,δ85.00000°,λ88.00000°. $M_0$6.79000×10^{14}

(162) South Island

WEL VI 04 19 45 09.9–.08 43.62S 172.42E 9–0 3.7L
¶16557330
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(250) Mindoro

MAN VI 04 20 19 22 13.42N 120.80E 10 4.4b,3.3L
¶601651212
MAN Event type fe. INTENSITY II - PUERTO GALERA ORIENTAL MINDORO.

(250) Mindoro

MAN VI 04 20 22 23 13.39N 120.87E 19 4.1b,2.9L
¶601651213
MAN Event type fe. INTENSITY II - PUERTO GALERA ORIENTAL MINDORO.

(228) Near east coast of eastern Honshu

ISC VI 04 21 14 09.0–.47 35.79N–.04 141.29E–.04 48–3 4.7b,3.5s 232 0-147
NIED VI 04 21 14 00 35.90N 141.40E 35 4.4W,3.5s ¶16558746
BJI VI 04 21 14 05.9 35.70N 141.33E 43 4.7b,4.7b
MOS VI 04 21 14 06.7–.68 35.78N 141.25E 41 4.9b,4.7b
JMA VI 04 21 14 07.4–.10 35.88N 141.28E 41–1 4.4,4.7b
ISCJB VI 04 21 14 07.3–.41 35.79N–.03 141.25E–.03 46–3 4.7b,3.5s
NEIC VI 04 21 14 08.8–.42 35.77N 141.23E 44–4 4.8b,3.5s
IDC VI 04 21 14 09.3–1.9 35.80N 141.19E 49–17 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ29.00000°,λ-160.00000°. NP2:ϕ_s177.00000°,δ80.00000°,λ-62.00000°. $M_0$4.36000×10^{15}
MOS Error ellipse: s-maj=9.1km s-min=6.1km az=121.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.2km az=15.2.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=127.0. Recorded [2 JMA] in Ibaraki and Tochigi.
IDC Error ellipse: s-maj=16.0km s-min=13.0km az=94.0.

(162) South Island

WEL VI 04 22 37 55.7–.06 43.63S 172.42E 11–0 3.9L
NEIC VI 04 22 37 55.6 43.62S 172.42E 12 3.9L ¶16557331
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.

(210) South of Mariana Islands

ISC VI 05 00 16 48.5–.39 12.60N–.03 144.36E–.04 69–3 5.1b 447 1-168
BJI VI 05 00 16 42.3 12.47N 144.69E 46 5.1b,5.0b ¶16557185
ISCJB VI 05 00 16 45.0–.78 12.63N–.03 144.32E–.03 47–7 5.1b,3.8s
GCMT VI 05 00 16 48.4–.20 12.39N 144.18E 86–2 5.0W,3.8s
MOS VI 05 00 16 48.2–.88 12.61N 144.41E 89 5.1b,3.8s
NEIC VI 05 00 16 48.4–.84 12.62N 144.29E 66–7 5.2b,3.8s
IDC VI 05 00 16 49.4–.83 12.62N 144.24E 76–7 4.9,4.7
DJA VI 05 00 16 51.8–.50 13N–7.0 145E–6.0 113–6 5.7b,5.2
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c72; s80,c125;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.36±.17 $M_{\theta\theta}$1.74±.17; $M_{\phi\phi}$0.61±.19; $M_{r\theta}$3.50±.09; $M_{\theta\phi}$1.84±.15; $M_{\phi r}$1.18±.12; Best double couple: NP1: ϕ_s249.00000°,δ73.00000°,λ-78.00000°. NP2:ϕ_s33.00000°,δ21.00000°,λ-124.00000°. Principal axes: T 4.8680,Plg27.0000°,Azm329.0000°; N -0.5020,Plg12.0000°,Azm65.0000° ; P -4.3690,Plg61.0000°,Azm177.0000° $M_0$4.61800×10^{16}
NEIC Event type fe. Felt [II] at Dededo and Tamuning. Also felt at Apra Harbor, Hagatna Heights, Mangilao, Merizo and Yona.

(228) Near east coast of eastern Honshu

ISC VI 05 00 16 56.5–3.3 36.54N–.04 140.92E–.05 3–22 3.8b 24 0-78
NIED VI 05 00 16 00 36.50N 140.90E 5 3.7W ¶17205262
ISCJB VI 05 00 16 55.6–1.2 36.49N–.04 141.08E–.05 8–7 3.7b
IDC VI 05 00 16 56.0–.98 36.52N 140.93E 0 3.8,3.7
JMA VI 05 00 16 58.3–.10 36.52N 140.93E 14–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ54.00000°,λ-39.00000°. NP2:ϕ_s146.00000°,δ59.00000°,λ-137.00000°. $M_0$4.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.6km az=138.0.
IDC Error ellipse: s-maj=22.8km s-min=18.5km az=98.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC VI 05 01 22 04.1–.77 35.64N–.05 140.76E–.06 50–7 3.9b,3.2s 38 0-92
NIED VI 05 01 22 00 35.70N 140.60E 50 4.3W,3.2s ¶16722607
ISCJB VI 05 01 22 02.9–.46 35.68N–.04 140.80E–.07 55–4 3.8b,3.3s
JMA VI 05 01 22 04.3–.10 35.71N 140.64E 48–1 3.5,3.3s
IDC VI 05 01 22 04.3–1.7 35.63N 140.66E 51–16 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ24.00000°,λ105.00000°. NP2:ϕ_s14.00000°,δ67.00000°,λ84.00000°. $M_0$2.67000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.1km az=167.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s7.00000°,δ79.00000°,λ86.00000°. NP2: ϕ_s209.00000°,δ12.00000°,λ111.00000°. Principal axes: T Plg56.0000°,Azm272.0000° ; N Plg4.0000°,Azm8.0000°; P Plg34.0000°,Azm101.0000°
IDC Error ellipse: s-maj=19.7km s-min=10.4km az=87.0.

(228) Near east coast of eastern Honshu

ISC VI 05 02 17 02.4–2.1 37.43N–.06 141.85E–.09 26–13 3.4b 29 1-146
IDC VI 05 02 16 58.1–1.3 37.39N 141.87E 0 3.6,3.5b ¶17205271
NIED VI 05 02 17 00 37.50N 141.70E 50 3.6W,3.5b
JMA VI 05 02 17 05.7–.10 37.47N 141.67E 46–2 3.9,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=24.6km az=48.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ45.00000°,λ87.00000°. NP2:ϕ_s53.00000°,δ45.00000°,λ93.00000°. $M_0$3.19000×10^{14}
JMA Event type fe.

(307) Sichuan

ISC VI 05 05 21 44.2–.39 31.80N–.03 104.34E–.03 12–2 4.8b,3.6s 331 1-170
MOS VI 05 05 21 43.9–.73 31.79N 104.27E 23 4.9b,3.6s ¶16557334
ISCJB VI 05 05 21 45.0–.92 31.79N–.02 104.21E–.03 30–7 4.6b,3.6s
NEIC VI 05 05 21 44.9–.13 31.84N 104.21E 15 4.8b,4.8L
BJI VI 05 05 21 45.3 31.80N 104.14E 19 4.6b,4.6L
IDC VI 05 05 21 47.5–3.0 31.80N 104.27E 33–22 4.4,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=112.8.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.4km az=163.8.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.0km az=52.0. Felt at Chengdu.
IDC Error ellipse: s-maj=12.2km s-min=8.9km az=46.0.

(190) New Ireland region

ISC VI 05 07 02 10.6–.57 3.76S–.04 152.19E–.05 20–2 5.3b,4.7s 386 0-157
IDC VI 05 07 02 06.8–.44 3.70S 152.20E 0 5.0,5.0 ¶16557338
ISCJB VI 05 07 02 07.0–.16 3.69S–.02 152.13E–.03 10 5.2b,4.7s
BJI VI 05 07 02 07.4 3.27S 152.45E 9 5.3b,5.1b
GCMT VI 05 07 02 08.7–.10 3.76S 151.96E 12 5.4W,5.1b
NEIC VI 05 07 02 08.7–.16 3.69S 152.08E 10 5.4b,5.1b
MOS VI 05 07 02 09.9–1.3 3.65S 152.05E 29 5.5b,4.8s
DJA VI 05 07 02 11.6–1.5 4S–3.0 152E–5.0 28–11 6.0,5.8b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c131; s124,c221;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$1.40±.02; $M_{\phi\phi}$-1.29±.02; $M_{r\theta}$0.17±.05; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$-0.33±.05; Best double couple: NP1:ϕ_s317.00000°,δ85.00000°,λ-15.00000°. NP2:ϕ_s48.00000° ,δ75.00000°,λ-175.00000°. Principal axes: T 1.4280,Plg7.0000°,Azm4.0000° ; N -0.0510,Plg74.0000°,Azm119.0000°; P -1.3780,Plg14.0000°,Azm272.0000° $M_0$1.40300×10^{17}
NEIC Event type fe. Felt at Namatanai. Also felt at Kokopo and Rabaul, New Britain.

(263) Talaud Islands

ISC VI 05 07 46 28.3–.75 3.27N–.04 126.64E–.05 68–6 4.7b 215 1-161
BJI VI 05 07 46 20.0 2.94N 126.77E 40 4.8b,4.8b ¶16557339
IDC VI 05 07 46 26.8–1.8 3.17N 126.52E 56–15 4.6,4.4
ISCJB VI 05 07 46 27.1–.45 3.30N–.02 126.71E–.03 74–4 4.6b,4.4
NEIC VI 05 07 46 28.3–.71 3.24N 126.70E 73–6 4.7b,4.4
DJA VI 05 07 46 29.7–.70 3N–5.0 127E–5.0 83–7 5.2b,5.0
KLM VI 05 07 46 31.6 3.50N 126.58E 68 5.8s,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=7.6km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.2km az=167.7.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.6km az=66.0. Felt at Bitung.

(227) Eastern Honshu

ISC VI 05 08 19 00.2–1.8 37.08N–.04 140.96E–.08 7–10 3.5b 22 0-57
IDC VI 05 08 19 00.1–2.0 36.92N 141.11E 0 3.4,3.3 ¶17205298
ISCJB VI 05 08 19 01.8–.00 37.11N–.03 140.89E–.07 6–4 3.3b,3.3
JMA VI 05 08 19 02.5 37.12N 140.83E 8–1 3.3,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=39.6km s-min=23.1km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.0km az=17.5.
JMA Event type fe.

(227) Eastern Honshu

JMA VI 05 08 22 12.9 37.11N 140.83E 7–1 3.3
¶600631888
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ66.00000°,λ-102.00000°. NP2:ϕ_s64.00000°,δ27.00000°,λ-66.00000°. Principal axes: T Plg20.0000°,Azm316.0000°; N Plg11.0000°,Azm222.0000°; P Plg67.0000° ,Azm106.0000°

(227) Eastern Honshu

ISC VI 05 08 32 38.4–1.3 37.09N–.03 140.90E–.06 6–7 3.6b 30 0-74
NIED VI 05 08 32 00 37.10N 140.90E 5 3.7W ¶17205301
ISCJB VI 05 08 32 37.0–.85 37.10N–.03 140.97E–.06 8–4 3.6b
IDC VI 05 08 32 37.0–.99 37.08N 141.03E 0 3.7,3.6
JMA VI 05 08 32 38.9 37.11N 140.82E 7–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ26.00000°,λ-58.00000°. NP2:ϕ_s235.00000°,δ69.00000°,λ-104.00000°. $M_0$4.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=5.3.
IDC Error ellipse: s-maj=23.3km s-min=16.8km az=82.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s234.00000°,δ54.00000°,λ-98.00000°. NP2:ϕ_s68.00000°,δ37.00000°,λ-79.00000°. Principal axes: T Plg9.0000°,Azm330.0000°; N Plg7.0000°,Azm239.0000°; P Plg79.0000° ,Azm112.0000°

(228) Near east coast of eastern Honshu

ISC VI 05 09 34 46.0–.95 35.91N–.06 140.18E–.09 60 3.4b 14 0-60
ISCJB VI 05 09 34 44.8–.75 35.89N–.05 140.3E–.10 60 3.4b ¶17205307
JMA VI 05 09 34 46.9–.10 35.98N 140.15E 59–1 3.1
IDC VI 05 09 34 46.9–2.3 35.87N 140.19E 69–20 3.4,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=7.3km az=165.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.0km s-min=12.4km az=74.0.

(274) Southern Sumatera

ISC VI 05 09 41 01.4–.79 2.73S–.05 101.79E–.05 113–6 4.4b 159 1-149
KLM VI 05 09 40 57.7 3.06S 101.89E 81 4.6b,4.1L ¶16640739
BJI VI 05 09 40 58.9 3.14S 101.75E 141 4.6b,4.6b
ISCJB VI 05 09 41 00.4–.37 2.69S–.04 101.81E–.04 119–3 4.5b,4.6b
IDC VI 05 09 41 01.4–1.7 2.76S 101.83E 114–14 4.4,4.1
NEIC VI 05 09 41 01.5–.59 2.72S 101.79E 113–5 4.7b,4.1
DJA VI 05 09 41 02.0–.30 3S–3.0 102E–4.0 81–9 4.5b,4.4
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bengkulu.

(135) Near coast of central Chile

ISC VI 05 10 25 16.7–.23 35.10S–.03 71.94W–.04 44–1 5.5b,4.7s 1381 1-179
NEIC VI 05 10 25 15.0 35.00S 72.19W 32 5.6L,5.5b ¶16557343
GUC VI 05 10 25 15.6–.32 35.00S 72.19W 32–2 5.6L,5.5b
GCMT VI 05 10 25 15.0–.10 35.01S 72.11W 50–0 5.3W,5.5b
MOS VI 05 10 25 15.0–.95 34.93S 71.81W 33 5.8b,4.9s
BJI VI 05 10 25 15.5 34.31S 71.66W 44 5.4b,5.2s
IDC VI 05 10 25 17.2–.30 35.03S 71.76W 43–2 5.4,5.2
ISCJB VI 05 10 25 17.7–.41 35.05S–.02 71.77W–.04 64–3 5.5b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [VII] at Constitucion; [VI] at Cauquenes, Chanco, Curico, Hualane, Iloca, Linares, Maule and Talca; [V] at Colbun, Longavi, Molina, Parral, Pencahue, Pichilemu, Rio Claro, Romeral, San Clemente, San Fernando, San Javier and Santa Cruz. Felt widely in central Chile from Tiltil and Vina del Mar to Concepcion. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s90,c134; s98,c164;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.02 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$-1.02±.02; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$-0.17±.02; $M_{\phi r}$-0.69±.02; Best double couple: NP1:ϕ_s172.00000°,δ63.00000°,λ74.00000°. NP2:ϕ_s24.00000° ,δ31.00000°,λ118.00000°. Principal axes: T 1.2630,Plg68.0000°,Azm52.0000° ; N -0.0180,Plg14.0000°,Azm180.0000°; P -1.2420,Plg17.0000°,Azm274.0000° $M_0$1.25200×10^{17}
ISCJB Event type fe.

(224) Hokkaido region

ISC VI 05 10 43 24.4–.69 42.22N–.05 143.07E–.04 58–6 4.0b 46 0-86
NIED VI 05 10 43 00 42.30N 143.00E 59 3.8W ¶17205313
ISCJB VI 05 10 43 23.7–.41 42.25N–.04 143.06E–.05 64–3 3.9b
MOS VI 05 10 43 23.8–.85 42.24N 143.02E 64 4.2b
JMA VI 05 10 43 25.4–.10 42.31N 143.05E 50–1 3.6
IDC VI 05 10 43 26.2–2.0 42.22N 143.03E 74–15 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ27.00000°,λ82.00000°. NP2:ϕ_s23.00000°,δ63.00000°,λ94.00000°. $M_0$5.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.2km az=150.5.
MOS Error ellipse: s-maj=15.9km s-min=9.0km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=13.9km az=112.0.

(228) Near east coast of eastern Honshu

ISC VI 05 10 46 06.0–.94 36.91N–.03 140.77E–.05 15–5 4.0s,3.8b 50 0-91
NIED VI 05 10 46 00 36.90N 140.80E 8 3.7W,3.8b ¶16640741
IDC VI 05 10 46 04.1–.79 36.99N 140.74E 0 4.0s,4.0
ISCJB VI 05 10 46 05.3–.58 36.92N–.03 140.86E–.05 22–3 4.1s,3.8b
JMA VI 05 10 46 06.3 36.92N 140.73E 14–1 3.9,3.8b
NEIC VI 05 10 46 09.7–.86 36.92N 140.66E 39–8 4.2b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ44.00000°,λ-54.00000°. NP2:ϕ_s140.00000°,δ56.00000°,λ-120.00000°. $M_0$3.83000×10^{14}
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.0km az=23.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s346.00000°,δ49.00000°,λ-84.00000°. NP2:ϕ_s157.00000°,δ41.00000°,λ-97.00000°. Principal axes: T Plg4.0000°,Azm72.0000°; N Plg5.0000°,Azm162.0000°; P Plg84.0000° ,Azm303.0000°
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=8.0km az=116.0. Recorded [2 JMA] in Fukushima and Ibaraki.

(227) Eastern Honshu

ISC VI 05 11 16 36.2–1.2 36.99N–.03 140.76E–.04 2–8 4.1b 54 0-147
NIED VI 05 11 16 00 37.10N 140.80E 8 4.2W ¶16558243
ISCJB VI 05 11 16 36.5–.54 37.04N–.03 140.83E–.04 11–3 4.0b,3.1s
JMA VI 05 11 16 37.0 37.05N 140.77E 11–1 4.4,3.1s
IDC VI 05 11 16 43.6–1.9 36.86N 140.61E 62–17 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ49.00000°,λ-131.00000°. NP2:ϕ_s239.00000°,δ56.00000°,λ-53.00000°. $M_0$2.31000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=20.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s0.00000°,δ61.00000°,λ-125.00000°. NP2:ϕ_s235.00000°,δ45.00000°,λ-44.00000°. Principal axes: T Plg9.0000°,Azm114.0000°; N Plg30.0000°,Azm19.0000°; P Plg58.0000°,Azm219.0000°
IDC Error ellipse: s-maj=14.7km s-min=13.0km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**05 11 28 38.9–1.1**	**38.77N–.04**	**141.73E–.08**	**68–8**		**31**	**0-62**
ISCJB	VI	05 11 28 37.4–.62	38.78N–.03	141.73E–.08	75–5	3.5b		¶600631993
IDC	VI	05 11 28 38.0–2.4	38.72N	142.01E	63–27	3.5,3.5		
JMA	VI	05 11 28 39.2	38.79N	141.62E	68–1	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.2km az=15.8.
IDC Error ellipse: s-maj=44.4km s-min=11.4km az=103.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ66.00000°,λ142.00000°. NP2:ϕ_s338.00000°,δ56.00000°,λ29.00000°. Principal axes: T Plg43.0000°,Azm190.0000°; N Plg46.0000°,Azm22.0000°; P Plg6.0000°,Azm286.0000°

(227) Eastern Honshu

ISC	**VI**	**05 11 36 52.4–.58**	**37.05N–.03**	**140.77E–.04**	**10**	**3.6b**	**37**	**0-91**
ISCJB	VI	05 11 36 50.7–.44	37.06N–.02	140.80E–.05	10	3.6b		¶17205316
JMA	VI	05 11 36 50.6	37.07N	140.77E	10–1	3.7		
IDC	VI	05 11 36 50.7–.74	36.89N	140.83E	0	3.8,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.2km az=17.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s355.00000°,δ68.00000°,λ-120.00000°. NP2:ϕ_s233.00000°,δ36.00000°,λ-38.00000°. Principal axes: T Plg18.0000°,Azm107.0000°; N Plg28.0000°,Azm7.0000°; P Plg56.0000°,Azm226.0000°
IDC Error ellipse: s-maj=19.4km s-min=14.6km az=121.0.

(277) Jawa

ISC	**VI**	**05 14 02 10.6–.90**	**7.56S–.08**	**109.65E–.03**	**35**	**3.7b**	**30**	**1-38**
IDC	VI	05 14 02 06.2–3.5	7.86S	109.45E	0	4.0,3.8		¶16856391
NEIC	VI	05 14 02 06.7–1.1	7.42S	109.60E	10	3.7b,3.8		
DJA	VI	05 14 02 07.7–.20	8S–4.0	110E–1.0	10	3.8,3.8		
ISCJB	VI	05 14 02 08.8–.38	7.53S–.08	109.69E–.03	33	3.6b,3.8		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Banjarnegara and Kebumen.
ISCJB Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**05 14 31 43.9–1.2**	**37.52N–.04**	**141.73E–.05**	**20–5**	**3.7b**	**41**	**1-77**
NIED	VI	05 14 31 00	37.50N	141.70E	50	4.1W		¶17205332
ISCJB	VI	05 14 31 44.4–.89	37.50N–.04	141.77E–.07	37–8	3.6b		
JMA	VI	05 14 31 45.2–.10	37.51N	141.70E	38–3	4.1		
IDC	VI	05 14 31 50.8–2.8	37.46N	141.45E	79–26	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ37.00000°,λ104.00000°. NP2:ϕ_s249.00000°,δ55.00000°,λ80.00000°. $M_0$1.80000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.5km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=16.5km az=100.0.

(471) Ohio

ISC	**VI**	**05 15 35 20.2–1.3**	**41.00N–.02**	**82.04W–.02**	**1–10**		**100**	**1-7**
NEIC	VI	05 15 35 21.1	41.03N	82.08W	5	3.0		¶16577396
OTT	VI	05 15 35 22.1–.13	41.03N	82.08W	5	3.5		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Creston, Lodi, Spencer and West Salem; [II] at Barberton, Homerville, Medina, Polk and Seville. Felt in much of the Akron-Mansfield-Wellington-Wooster area. After OGSO.
OTT Event type fe. Ohio, U.S. Felt. 128km south from Leamington, On Felt in Ohio.

(228) Near east coast of eastern Honshu

ISC	**VI**	**05 16 36 16.8–1.6**	**37.13N–.04**	**141.24E–.05**	**8–10**	**3.2b**	**27**	**0-57**
NIED	VI	05 16 36 00	37.10N	141.20E	14	3.4W		¶600632231
IDC	VI	05 16 36 15.9–1.3	37.15N	141.27E	0	3.4,3.3		
ISCJB	VI	05 16 36 16.9–1.1	37.08N–.04	141.31E–.07	20–7	3.3b,3.3		
JMA	VI	05 16 36 18.9–.10	37.09N	141.15E	30–1	3.5,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ32.00000°,λ-42.00000°. NP2:ϕ_s212.00000°,δ69.00000°,λ-115.00000°. $M_0$1.35000×10^{14}
IDC Error ellipse: s-maj=27.7km s-min=19.8km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.7km az=21.1.
JMA Event type fe.

(162) South Island

WEL	**VI**	**05 19 00 39.2–.07**	**43.60S**	**172.50E**	**10–0**	**3.7L**		
								¶16558325

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(162) South Island

WEL	**VI**	**05 19 58 05.9–.10**	**41.95S**	**172.46E**	**12**	**3.8L**		
								¶16558326

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt from Nelson to West Coast, maximum reported intensity MM 4.

(162) South Island

ISC	**VI**	**05 21 09 55.0–.95**	**43.56S–.02**	**172.43E–.02**	**1–5**	**5.0b,4.2s**	**421**	**0-167**
IDC	VI	05 21 09 53.8–.60	43.62S	172.43E	0	4.7,4.6		¶16558247
ISCJB	VI	05 21 09 53.0–.47	43.61S–.02	172.58E–.03	14–3	5.0b,4.2s		
NEIC	VI	05 21 09 55.3	43.58S	172.39E	8	5.5L,5.1b		
BJI	VI	05 21 09 55.3	43.72S	172.21E	6	5.6b,5.3b		
GCMT	VI	05 21 09 55.3–.20	43.49S	172.31E	12	5.1W,5.3b		
WEL	VI	05 21 09 55.3–.05	43.59S	172.39E	9–0	5.5L,5.3b		
MOS	VI	05 21 09 56.0–2.0	43.47S	172.19E	10	5.0b,5.3b		

ISC Event type fe.
IDC Error ellipse: s-maj=21.7km s-min=10.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.4km az=137.4.
NEIC Event type fe. Felt [V] at Christchurch. Felt throughout Canterbury and in the Hokitika-Westport area. After WEL. Moment Tensor Solution. s41 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.04 $M_{\theta\theta}$1.14 $M_{\phi\phi}$-1.11 $M_{r\theta}$0.50 $M_{\theta\phi}$-3.96 $M_{\phi r}$0.35 Best double couple: NP1: ϕ_s262.00000°,δ86.00000°,λ-173.00000°. NP2:ϕ_s172.00000°,δ83.00000°,λ-4.00000°. Principal axes: T 4.1400,Plg3.0000°,Azm37.0000°; N 0.0300,Plg82.0000°,Azm289.0000°; P -4.1800,Plg8.0000°,Azm127.0000° $M_0$4.20000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c45; s95,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.03±.12 $M_{\theta\theta}$2.41±.11; $M_{\phi\phi}$-2.37±.10; $M_{r\theta}$-0.30±.30; $M_{\theta\phi}$-4.15±.09; $M_{\phi r}$-0.12±.29; Best double couple: NP1:ϕ_s75.00000°,δ90.00000°,λ-176.00000°. NP2:ϕ_s345.00000°,δ86.00000°,λ0.00000°. Principal axes: T 4.8170,Plg2.0000°,Azm210.0000°; N -0.0290,Plg86.0000°,Azm82.0000°; P -4.7830,Plg3.0000°,Azm300.0000° $M_0$4.80000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0. Felt between Nelson, Southland and Wellington, maximum reported intensity MM. 7.
MOS Error ellipse: s-maj=14.4km s-min=11.5km az=83.4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**05 21 37 47.3–2.6**	**38.34N–.06**	**142.25E–.10**	**4–14**	**3.4b**	**20**	**1-62**
NIED	VI	05 21 37 00	38.40N	142.20E	68	3.8W		¶17205361
IDC	VI	05 21 37 44.6–2.5	38.36N	143.16E	0	3.5,3.4b		
JMA	VI	05 21 37 49.9–.10	38.43N	142.20E	35–1	3.6,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ64.00000°,λ165.00000°. NP2:ϕ_s101.00000°,δ77.00000°,λ27.00000°. $M_0$5.97000×10^{14}
IDC Error ellipse: s-maj=68.5km s-min=25.9km az=60.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(162) South Island

WEL	**VI**	**05 23 41 59.4–.08**	**43.57S**	**172.41E**	**10–0**	**3.8L**		
NEIC	VI	05 23 41 59.3	43.57S	172.40E	10	3.8L		¶16558327

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in central Canterbury. After WEL.

(249) Luzon

ISC	**VI**	**06 01 51 38.6–1.3**	**13.70N–.03**	**122.71E–.04**	**4–9**	**3.6b,3.5s**	**45**	**0-92**
IDC	VI	06 01 51 37.2–1.0	13.63N	122.73E	0	4.0,3.9b		¶16684507
MAN	VI	06 01 51 37	13.65N	122.69E	2	4.8b,3.7L		
NEIC	VI	06 01 51 38.6–.73	13.63N	122.73E	10	3.6b,3.7L		

ISC Event type fe.
IDC Error ellipse: s-maj=28.2km s-min=17.0km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=20.3km s-min=13.0km az=56.0. Felt [II PIVS] at Guinayangan.

(228) Near east coast of eastern Honshu

ISC	**VI**	**06 03 00 05.1–.36**	**38.28N–.04**	**142.18E–.04**	**21–3**	**4.5b,3.2s**	**161**	**1-146**
NIED	VI	06 03 00 00	38.30N	142.20E	29	4.2W,3.2s		¶16679565
BJI	VI	06 03 00 04.6	38.33N	142.15E	32	4.7b,4.5b		
JMA	VI	06 03 00 05.0–.10	38.32N	142.22E	40–3	4.0,4.5b		
ISCJB	VI	06 03 00 05.2–.48	38.30N–.03	142.22E–.04	37–4	4.6b,3.2s		
IDC	VI	06 03 00 06.3–.61	38.25N	142.15E	32–3	4.2,4.1		
NEIC	VI	06 03 00 08.4–.47	38.31N	142.17E	50–4	4.6b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ39.00000°,λ-94.00000°. NP2:ϕ_s156.00000°,δ52.00000°,λ-87.00000°. $M_0$2.40000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.7km az=39.1.
IDC Error ellipse: s-maj=13.6km s-min=12.8km az=78.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=127.0. Recorded [2 JMA] in Miyagi.

(249) Luzon

MAN	**VI**	**06 03 08 23**	**13.65N**	**122.57E**	**7**	**3.6b,2.3L**		
								¶601653334

MAN Event type fe. INTENSITY II - GUINAYANGAN QUEZON.

(364) Greece

ISC	**VI**	**06 03 35 01.3–.79**	**38.12N–.02**	**20.56E–.02**	**18–4**	**3.5b**	**208**	**0-45**
NEIC	VI	06 03 35 00.7	38.12N	20.57E	21	3.3L,3.2L		¶16702421
ATH	VI	06 03 35 00.7	38.12N	20.57E	22–1	3.2L,3.2L		
ISCJB	VI	06 03 35 00.0–.47	38.10N–.02	20.46E–.02	12–3	3.3b,2.8s		
CSEM	VI	06 03 35 01.1–.17	38.12N	20.56E	10	3.2L,2.8s		
IDC	VI	06 03 35 01.6–1.3	38.31N	21.03E	0	3.4,3.4b		
THE	VI	06 03 35 02.0	38.12N	20.63E	3–1	3.3L,3.4b		

ISC Event type fe.
NEIC Event type fe. Felt at Argostolion. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=25.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=31.0.
IDC Error ellipse: s-maj=31.6km s-min=22.4km az=87.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=62.0.

(135) Near coast of central Chile

ISC	**VI**	**06 04 31 16.7–.99**	**33.93S–.05**	**71.14W–.08**	**75–8**	**3.6b**	**27**	**1-152**
ISCJB	VI	06 04 31 16.4–.63	33.95S–.05	71.09W–.09	83–5	3.5b		¶16702422
SJA	VI	06 04 31 16.6–.61	33.83S	71.22W	87–9	3.6W,3.4L		
NEIC	VI	06 04 31 17.0	33.92S	71.14W	68	3.5b,3.4L		
GUC	VI	06 04 31 17.4–.46	33.92S	71.14W	68–12	3.9L,3.4L		
IDC	VI	06 04 31 33.2–18	33.34S	70.69W	199–130	3.9,3.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.1km az=14.3.
SJA Error ellipse: s-maj=10.6km s-min=14.4km az=-1.0.
NEIC Event type fe. Felt [III] at Rancagua, Rengo and San Fernando; [II] at San Antonio and Villa Alemana. Also felt at Santiago. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=143.6km s-min=57.2km az=34.0.

(162) South Island

ISC	**VI**	**06 05 04 19.2–.90**	**43.57S–.04**	**172.45E–.03**	**20–4**		**89**	**0-149**
ISCJB	VI	06 05 04 18.3–.38	43.63S–.04	172.53E–.06	27–3	3.8b,3.2s		¶16558328
NEIC	VI	06 05 04 19.6	43.59S	172.40E	10	4.5L,3.2s		
WEL	VI	06 05 04 19.8–.06	43.58S	172.40E	9–0	4.5L,3.2s		
IDC	VI	06 05 04 21.1–1.3	43.13S	172.02E	0	4.1,3.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.0km az=45.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 6.
IDC Error ellipse: s-maj=37.1km s-min=12.4km az=134.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**06 06 20 53.8–1.1**	**37.17N–.04**	**141.47E–.09**	**38–3**	**3.7b,3.0s**	**32**	**1-74**
NIED	VI	06 06 20 00	37.20N	141.40E	47	3.9W,3.0s		¶17205391
ISCJB	VI	06 06 20 52.2–.91	37.14N–.04	141.48E–.08	44–8	3.8b,3.0s		
JMA	VI	06 06 20 53.4–.10	37.19N	141.38E	49–1	3.9,3.0s		
IDC	VI	06 06 20 55.9–2.8	37.09N	141.25E	57–24	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ8.00000°,λ60.00000°. NP2:ϕ_s27.00000°,δ83.00000°,λ94.00000°. $M_0$7.08000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.2km az=5.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=31.0km s-min=12.5km az=80.0.

(162) South Island

WEL	**VI**	**06 08 25 20.6–.08**	**43.58S**	**172.39E**	**10–0**	**3.5L**		
								¶601026994

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(259) Mindanao

MAN	**VI**	**06 08 40 22**	**8.46N**	**124.60E**	**33**	**4.3b,3.1L**		
								¶601653339

MAN Event type fe. INTENSITY II - CAGAYAN DE ORO CITY; INTENSITY I - ILIGAN CITY AND EL SALVADOR CITY.

(227) Eastern Honshu

ISC	**VI**	**06 10 24 15.8–1.1**	**36.27N–.09**	**137.51E–.06**	**16–8**	**2.8s**	**12**	**0-60**
NIED	VI	06 10 24 00	36.10N	137.50E	8	4.0W		¶16560651
ISCJB	VI	06 10 24 15.2–1.2	36.1N–.10	137.44E–.08	19–13	3.5b,2.8s		
JMA	VI	06 10 24 16.3	36.10N	137.47E	8	4.1,2.8s		
IDC	VI	06 10 24 18.0–2.7	36.19N	137.59E	34–32	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ56.00000°,λ26.00000°. NP2:ϕ_s265.00000°,δ68.00000°,λ143.00000°. $M_0$1.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=17.9km s-min=9.4km az=164.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ74.00000°,λ41.00000°. NP2:ϕ_s259.00000°,δ51.00000°,λ159.00000°. Principal axes: T Plg40.0000°,Azm228.0000°; N Plg47.0000°,Azm21.0000°; P Plg14.0000°,Azm126.0000°
IDC Error ellipse: s-maj=36.9km s-min=11.9km az=56.0.

(227) Eastern Honshu

ISC	**VI**	**06 12 36 10.4–.82**	**36.12N–.05**	**140.01E–.06**	**76–6**	**4.0b**	**40**	**0-75**
NIED	VI	06 12 36 00	36.20N	140.00E	71	3.9W		¶16722620
ISCJB	VI	06 12 36 09.4–.47	36.11N–.03	140.01E–.06	83–3	3.9b		
IDC	VI	06 12 36 10.5–1.3	36.14N	139.97E	77–11	3.9,3.7		
JMA	VI	06 12 36 11.1–.10	36.11N	139.99E	68–1	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ26.00000°,λ91.00000°. NP2:ϕ_s0.00000°,δ64.00000°,λ89.00000°. $M_0$8.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=178.7.
IDC Error ellipse: s-maj=16.5km s-min=7.9km az=69.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s0.00000°,δ61.00000°,λ87.00000°. NP2: ϕ_s186.00000°,δ29.00000°,λ96.00000°. Principal axes: T Plg74.0000°,Azm261.0000°; N Plg3.0000°,Azm1.0000°; P Plg16.0000°,Azm92.0000°

(227) Eastern Honshu

ISC	**VI**	**06 12 46 53.3–1.0**	**36.11N–.04**	**140.01E–.06**	**76–8**	**3.5b**	**25**	**0-60**
ISCJB	VI	06 12 46 52.5–.64	36.10N–.04	140.02E–.07	83–5	3.5b		¶17205413
IDC	VI	06 12 46 54.5–4.2	36.04N	139.93E	85–25	3.6,3.3		
JMA	VI	06 12 46 54.3–.10	36.11N	139.99E	68–1	3.0,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.4km az=171.7.
IDC Error ellipse: s-maj=61.6km s-min=9.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(229) Off east coast of Honshu

ISC	**VI**	**06 18 52 23.0–.36**	**37.59N–.04**	**143.71E–.04**	**32–1**	**5.0b,4.4s**	**593**	**2-153**
NIED	VI	06 18 52 00	37.60N	143.50E	5	4.9W,4.4s		¶16558936
IDC	VI	06 18 52 18.2–.43	37.53N	143.73E	0	4.8,4.7		
JMA	VI	06 18 52 20.8–.20	37.59N	143.64E	45	4.9,4.7		

ISCJB VI 06 18 52 23.6–.15 37.60N–.02 143.52E–.02 42 4.9b,4.4s
MOS VI 06 18 52 23.9–.92 37.89N 143.52E 33 5.2b,4.3s
NEIC VI 06 18 52 24.2–.47 37.55N 143.60E 37–4 4.9b,4.3s
BJI VI 06 18 52 25.6 37.71N 143.28E 51 5.0b,4.8b
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s17.00000°,δ39.00000°,λ-107.00000°. NP2:ϕ_s217.00000°,δ53.00000°,λ-77.00000°. M_o2.18000×10^{16}

IDC Error ellipse: s-maj=13.5km s-min=10.3km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=165.1.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=145.0. Recorded [1 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**VI**	**06 20 10 27.2–.56**	**37.81N–.04**	**141.63E–.04**	**47–4**	**4.9b,3.6s**	**438**	**1-146**
NIED	VI	06 20 10 00	37.80N	141.60E	50	4.6W,3.6s		**¶16558938**
BJI	VI	06 20 10 23.3	37.70N	141.76E	44	4.9b,4.8b		
MOS	VI	06 20 10 25.5–.87	37.82N	141.63E	46	5.1b,4.8b		
ISCJB	VI	06 20 10 26.5–.40	37.80N–.02	141.59E–.04	53–2	4.8b,3.6s		
JMA	VI	06 20 10 27.1–.10	37.77N	141.60E	48–2	4.6,3.6s		
IDC	VI	06 20 10 28.5–1.8	37.80N	141.51E	57–15	4.6,4.4		
NEIC	VI	06 20 10 28.8–.47	37.82N	141.52E	59–4	4.9b,4.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ15.00000°,λ88.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ91.00000°. M_o8.56000×10^{15}

MOS Error ellipse: s-maj=7.0km s-min=4.1km az=112.7.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=32.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=10.4km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.5km az=127.0. Felt at Ichinoseki. Recorded [3 JMA] in Fukushima and Miyagi.

(228) Near east coast of eastern Honshu

JMA	**VI**	**06 20 37 15.1–.10**	**37.44N**	**141.48E**	**39–2**	**3.6**		
NIED	VI	06 20 37 00	37.40N	141.50E	56	3.5W		**¶600633340**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ62.00000°,λ-28.00000°. NP2:ϕ_s288.00000°,δ65.00000°,λ-149.00000°. M_o1.79000×10^{14}

(543) Germany

ISC	**VI**	**07 00 10 42.7–.74**	**51.52N–.02**	**6.48E–.02**	**0**		**182**	**0-6**
LDG	VI	07 00 10 43.9–.22	51.57N	6.49E	1	3.0,2.5L		**¶16581025**
ISCJB	VI	07 00 10 43.5–.35	51.48N–.02	6.47E–.03	0	3.0,2.5L		
CSEM	VI	07 00 10 43.9–.22	51.51N	6.46E	1	2.6L,2.5L		
BUG	VI	07 00 10 44.8	51.59N	6.61E	1	1.8L,2.5L		
BNS	VI	07 00 10 44.9–1.0	51.52N	6.51E	1	1.4L,2.5L		
BGR	VI	07 00 10 45.2–.25	51.49N	6.57E	1	2.1L,2.5L		
UCC	VI	07 00 10 45.6	51.45N	6.60E	10	2.0L,2.5L		

ISC Event type ki.
LDG Event type sr. Error ellipse: s-maj=3.7km s-min=2.6km az=7.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=2.8km s-min=2.2km az=148.1.
CSEM Event type ki. Error ellipse: s-maj=4.2km s-min=3.3km az=144.0.
GDNRW Event type fi.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=123.0.
UCC Event type si.

(135) Near coast of central Chile

ISC	**VI**	**07 01 07 05.7–.95**	**34.55S–.03**	**71.99W–.06**	**13–5**	**4.5b,3.2s**	**95**	**0-157**
IDC	VI	07 01 07 03.7–.57	34.52S	71.97W	0	4.4,4.4L		**¶16577410**
ISCJB	VI	07 01 07 05.1–.61	34.54S–.03	72.04W–.05	19–4	4.4b,3.3s		
NEIC	VI	07 01 07 05.0	34.55S	71.96W	20	4.6b,4.6L		
GUC	VI	07 01 07 05.0–.50	34.55S	71.96W	20–3	4.6L,4.6L		

ISC Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=15.3km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=11.3.
NEIC Event type fe. Felt [IV] at Pichilemu; [III] at Lolol and Paredones; [II] at Cauquenes, Constitucion, Iloca, Navidad, Pencahue, Rancagua, Rio Claro and Talca. Also felt at Santiago and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=1.4km s-min=4.7km az=-1.0.

(249) Luzon

ISC	**VI**	**07 02 15 02.1–1.4**	**18.55N–.07**	**120.62E–.07**	**32–9**	**3.3b**	**20**	**0-46**
IDC	VI	07 02 14 57.5–1.1	18.50N	120.77E	0	3.8L,3.7		**¶17205443**
MAN	VI	07 02 15 01	18.55N	120.67E	5	4.6b,3.5L		

ISC Event type fe.
IDC Error ellipse: s-maj=40.3km s-min=20.3km az=63.0.
MAN Event type fe. INTENSITY II - PASUQUIN ILOCOS NORTE.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 04 02 31.9–1.2**	**40.37N–.04**	**142.07E–.09**	**53–9**	**3.8b**	**22**	**0-72**
NIED	VI	07 04 02 00	40.40N	142.10E	50	3.7W		**¶17205446**
ISCJB	VI	07 04 02 31.0–.82	40.38N–.04	142.10E–.10	57–7	3.9b		
JMA	VI	07 04 02 32.1–.10	40.35N	142.08E	50–1	3.9		
IDC	VI	07 04 02 33.3–3.7	40.40N	142.25E	73–20	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ37.00000°,λ163.00000°. NP2:ϕ_s335.00000°,δ80.00000°,λ54.00000°. M_o3.85000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.6km az=2.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=62.5km s-min=17.5km az=112.0.

(135) Near coast of central Chile

ISC	**VI**	**07 04 12 14.5–.99**	**34.55S–.03**	**71.96W–.06**	**13–7**	**3.8b**	**40**	**0-126**
ISCJB	VI	07 04 12 14.0–.73	34.57S–.03	72.00W–.08	13–5	3.6b,3.2s		**¶16679577**
NEIC	VI	07 04 12 14.0	34.56S	71.96W	17	3.8L,3.2s		
GUC	VI	07 04 12 14.2–.58	34.56S	71.96W	17–4	3.8L,3.2s		
IDC	VI	07 04 12 17.8–5.8	34.62S	71.81W	35–47	3.9L,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=4.1km az=17.1.
NEIC Event type fe. Felt [III] at Lolol, Paredones and Pichilemu; [II] at Curico, Iloca, Pencahue, Rancagua and Talca. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=5.5km az=-1.0.
IDC Error ellipse: s-maj=44.1km s-min=27.3km az=94.0.

(135) Near coast of central Chile

ISC	**VI**	**07 07 55 34.2–2.4**	**32.85S–.05**	**71.86W–.10**	**10–13**		**33**	**1-25**
SJA	VI	07 07 55 29.4–1.1	32.88S	72.32W	10	3.8W,3.7L		**¶16856535**
GUC	VI	07 07 55 36.8–.40	32.80S	71.63W	22–5	3.7L,3.7L		
NEIC	VI	07 07 55 36.0	32.79S	71.63W	22	3.7L,3.5b		

ISC Event type fe.
SJA Error ellipse: s-maj=12.0km s-min=11.8km az=-1.0.
GUC Error ellipse: s-maj=4.6km s-min=3.1km az=-1.0.
NEIC Event type fe. Felt [III] at Puchuncavi, Valparaiso and Vina del Mar; [II] at Pichilemu. After GUC.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 08 06 48.4–.58**	**38.01N–.04**	**142.77E–.06**	**14**	**4.2b,3.4s**	**60**	**1-145**
NIED	VI	07 08 06 00	38.00N	142.80E	20	4.1W,3.4s		**¶16640747**
ISCJB	VI	07 08 06 46.8–.41	38.03N–.03	142.82E–.04	14	4.1b,3.2s		
JMA	VI	07 08 06 46.7–.20	38.04N	142.80E	18–2	4.3,3.2s		
NEIC	VI	07 08 06 51.8–1.1	38.07N	142.84E	37–9	4.5b,3.2s		
IDC	VI	07 08 06 51.7–3.3	38.07N	142.68E	36–27	4.0,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ53.00000°,λ-140.00000°. NP2:ϕ_s85.00000°,δ59.00000°,λ-44.00000°. M_o1.58000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=160.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=13.9km s-min=7.6km az=120.0. Recorded [1 JMA] in Miyagi.
IDC Error ellipse: s-maj=22.6km s-min=14.0km az=107.0.

(485) Missouri-Illinois border region

ISC	**VI**	**07 08 10 34.2–.97**	**38.13N–.02**	**90.91W–.02**	**15–7**	**4.3b**	**579**	**1-131**
ISCJB	VI	07 08 10 33.1–.47	38.160N–.01	90.96W–.01	15–4	4.3b,3.7s		**¶16560661**
IDC	VI	07 08 10 34.7–2.5	38.17N	90.96W	15–19	4.2,4.2L		
NEIC	VI	07 08 10 36.7	38.08N	90.90W	21	4.2b,3.9W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.5km az=155.3.
IDC Error ellipse: s-maj=13.3km s-min=9.7km az=177.0.

NEIC Event type fe. Felt [IV] at Arcadia, Fletcher, Potosi and Westphalia; [III] in the Camdenton-Louisiana-Perryville area. Also felt [III] in the Carbondale-Pittsfield area, Illinois. Felt throughout central Missouri and southwestern Illinois and in parts of northern Arkansas, eastern Kansas and western Kentucky. After CERI. Moment Tensor Solution. s51 Moment tensor: Scale 10^{14}Nm; M_{rr}1.41 $M_{\theta\theta}$0.90 $M_{\phi\phi}$-2.31 $M_{r\theta}$3.04 $M_{\theta\phi}$6.71 $M_{\phi r}$1.40 Best double couple: NP1:ϕ_s4.00000°,δ67.00000°,λ164.00000°. NP2:ϕ_s100.00000°,δ75.00000°,λ24.00000°. Principal axes: T 7.8500,Plg27.0000°,Azm323.0000° ; N -0.1700,Plg62.0000°,Azm130.0000°; P -7.6700,Plg5.0000°,Azm230.0000° M_o7.80000×10^{14}

(248) Philippine Islands region

ISC	**VI**	**07 08 34 00.4–1.0**	**10.42N–.04**	**126.17E–.06**	**69–9**	**4.4b**	**129**	**1-120**
MAN	VI	07 08 33 56	10.33N	126.30E	109	5.1b,4.6s		**¶16577415**
ISCJB	VI	07 08 33 57.2–.68	10.40N–.03	126.27E–.05	60–6	4.4b,4.6s		
NEIC	VI	07 08 34 00.8–1.2	10.40N	126.21E	77–11	4.5b,4.6s		
DJA	VI	07 08 34 02.7–1.4	11N–8.0	126E–8.0	44–13	5.4,5.3b		
IDC	VI	07 08 34 02.0–2.7	10.31N	126.06E	88–25	4.3,4.0		

ISC Event type fe.
MAN Event type fe. INTENSITY IV - SAN BENITO SIARGAO SURIGAO DEL NORTE; INTENSITY III - BURGOS SIARGAO SURIGAO DEL NORTE; INTENSITY II - SURIGAO CITY; SAN JOSE DINAGAT ISLAND; DAPA SIARGAO SURIGAO DEL NORTE; INTENSITY I - LORETO DINAGAT ISLAND.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=164.1.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.0km az=74.0. Felt [IV PIVS] at San Benito, [III PIVS] at San Isidro, [II PIVS] at Dapa, San Jose and Surigao and [I PIVS] at Loreto.
IDC Error ellipse: s-maj=21.7km s-min=9.8km az=77.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 09 22 20.6–1.0**	**36.91N–.03**	**140.65E–.06**	**10–8**	**3.6b**	**20**	**0-61**
NIED	VI	07 09 22 00	36.90N	140.70E	5	3.4W		**¶600633776**
ISCJB	VI	07 09 22 19.9–.71	36.89N–.03	140.78E–.07	14–4	3.6b		
JMA	VI	07 09 22 20.8	36.91N	140.66E	7–1	3.5		
IDC	VI	07 09 22 29.8–1.2	35.49N	137.13E	0	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ38.00000°,λ-148.00000°. NP2:ϕ_s236.00000°,δ71.00000°,λ-56.00000°. M_o1.19000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.4km az=13.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s233.00000°,δ64.00000°,λ-63.00000°. NP2:ϕ_s4.00000°,δ37.00000°,λ-133.00000°. Principal axes: T Plg15.0000°,Azm304.0000°; N Plg24.0000°,Azm41.0000°; P Plg61.0000° ,Azm185.0000°
IDC Error ellipse: s-maj=30.8km s-min=20.8km az=83.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 09 45 03.0–1.8**	**38.31N–.05**	**142.26E–.07**	**15–10**	**3.5b**	**31**	**1-74**
IDC	VI	07 09 45 00.3–1.1	38.40N	142.57E	0	3.6,3.5		**¶17205471**
NIED	VI	07 09 45 00	38.30N	142.10E	26	3.6W,3.5		
ISCJB	VI	07 09 45 03.9–1.4	38.28N–.05	142.17E–.08	26–9	3.4b,3.5		
JMA	VI	07 09 45 05.7–.10	38.33N	142.09E	35–1	3.9,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=20.7km az=110.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ36.00000°,λ-8.00000°. NP2:ϕ_s234.00000°,δ85.00000°,λ-126.00000°. M_o2.90000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.0km az=21.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 10 06 40.5–1.1**	**35.99N–.05**	**141.29E–.08**	**26**	**3.4b**	**14**	**0-65**
NIED	VI	07 10 06 00	36.10N	141.30E	5	3.6W		**¶17205476**
IDC	VI	07 10 06 37.9–1.2	36.15N	141.56E	0	3.9s,3.9		
ISCJB	VI	07 10 06 40.4–.85	36.04N–.04	141.30E–.08	26	3.9s,3.4b		
JMA	VI	07 10 06 41.3–.20	36.00N	141.20E	35–2	3.8,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ8.00000°,λ-140.00000°. NP2:ϕ_s33.00000°,δ85.00000°,λ-84.00000°. M_o3.00000×10^{14}

IDC Error ellipse: s-maj=28.5km s-min=21.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.0km az=170.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 10 18 12.1–1.6**	**37.38N–.04**	**141.73E–.05**	**11–9**	**4.3b**	**78**	**1-90**
NIED	VI	07 10 18 00	37.40N	141.70E	8	4.1W		**¶16722624**
ISCJB	VI	07 10 18 12.1–.84	37.37N–.03	141.75E–.04	22–5	4.2b,3.8s		
JMA	VI	07 10 18 12.8–.10	37.43N	141.71E	27–2	4.2,3.8s		
NEIC	VI	07 10 18 16.3–.82	37.40N	141.69E	40–7	4.6b,3.8s		
IDC	VI	07 10 18 17.0–1.8	37.36N	141.60E	47–18	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ30.00000°,λ-150.00000°. NP2:ϕ_s258.00000°,δ76.00000°,λ-63.00000°. M_o1.41000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=5.8km az=104.0. Recorded [1 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=19.1km s-min=10.7km az=88.0.

(69) Near coast of Chiapas

ISC	**VI**	**07 14 55 19.6–.29**	**15.25N–.04**	**93.35W–.03**	**80–2**	**5.3b**	**1320**	**0-152**
ISCJB	VI	07 14 55 18.8–.14	15.41N–.02	93.18W–.02	77	5.2b		**¶16570218**
MOS	VI	07 14 55 19.3–.97	15.49N	93.03W	76	5.5b,4.4s		
GCMT	VI	07 14 55 20.1–.10	15.31N	93.41W	76–1	5.4W,4.4s		
BJI	VI	07 14 55 20.1	15.40N	93.10W	76	5.2s,5.1b		
IDC	VI	07 14 55 20.2–.47	15.48N	92.90W	73–4	5.1,4.9		
NEIC	VI	07 14 55 20.1–.17	15.36N	93.08W	76	5.5W,5.4b		
MEX	VI	07 14 55 20.2–1.0	15.11N	93.49W	68–16	5.2,5.4b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=41.1.
MOS Error ellipse: s-maj=7.7km s-min=3.9km az=106.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s103,c179; s114,c207; Duration: 1s^2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.54±.02 $M_{\theta\theta}$0.36±.02; $M_{\phi\phi}$0.18±.02; $M_{r\theta}$0.93±.01; $M_{\theta\phi}$-0.38±.02; $M_{\phi r}$-0.73±.01; Best double couple: NP1:ϕ_s308.00000°,δ77.00000° ,λ-90.00000°. NP2:ϕ_s129.00000°,δ13.00000°,λ-89.00000°. Principal axes: T 1.3880,Plg32.0000°,Azm39.0000°; N -0.1200,Plg0.0000°,Azm308.0000° ; P -1.2690,Plg58.0000°,Azm218.0000° M_o1.32900×10^{17}
IDC Error ellipse: s-maj=15.6km s-min=8.3km az=54.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=35.0. Felt [II] at Guatemala and Quetzaltenango, Guatemala. Also felt at Huehuetenango, Panajachel, San Antonio Huista and San Marcos La Laguna. Felt at Cayo, Belize and at Villahermosa, Mexico. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.55 $M_{\theta\theta}$0.89 $M_{\phi\phi}$0.65 $M_{r\theta}$0.26 $M_{\theta\phi}$-1.52 $M_{\phi r}$-0.15 Best double couple: NP1:ϕ_s308.00000°,δ49.00000°,λ-96.00000°. NP2: ϕ_s138.00000°,δ41.00000°,λ-83.00000°. Principal axes: T 2.3200,Plg4.0000°,Azm43.0000° ; N -0.7500,Plg5.0000°,Azm312.0000°; P -1.5700,Plg84.0000°,Azm176.0000° M_o2.00000×10^{17} Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000° ,δ81.00000°,λ-83.00000°. NP2:ϕ_s78.00000°,δ11.00000°,λ-129.00000°. Principal axes: T 1.0600,Plg36.0000°,Azm21.0000°; N 0.0300,Plg7.0000°,Azm116.0000° ; P -1.0800,Plg53.0000°,Azm216.0000°
MEX Error ellipse: s-maj=11.7km s-min=7.5km az=-1.0.

(162) South Island

ISC	**VI**	**07 15 15 06.9–.78**	**42.32S–.03**	**173.16E–.03**	**15**		**118**	**0-150**
ISCJB	VI	07 15 15 06.2–.26	42.37S–.03	173.19E–.04	15	3.4s,3.3b		**¶16578080**
IDC	VI	07 15 15 06.3–9.5	40.72S	173.52E	0	3.6,3.4		
NEIC	VI	07 15 15 07.2	42.31S	173.15E	12	4.0L,3.4		
WEL	VI	07 15 15 07.3–.07	42.32S	173.17E	12	4.0L,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.6km az=135.4.
IDC Error ellipse: s-maj=573.0km s-min=52.9km az=34.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 15 44 20.3–1.8**	**37.17N–.05**	**141.58E–.08**	**27–11**	**3.5b**	**32**	**1-74**
NIED	VI	07 15 44 00	37.20N	141.40E	41	3.6W		**¶17205494**
ISCJB	VI	07 15 44 20.3–.88	37.16N–.04	141.61E–.08	43–8	3.5b		
IDC	VI	07 15 44 21.8–2.0	37.14N	141.68E	44–17	3.7,3.5		
JMA	VI	07 15 44 22.9–.10	37.20N	141.38E	48–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ10.00000°,λ120.00000°. NP2:ϕ_s1.00000°,δ82.00000°,λ85.00000°. M_o2.97000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.2km az=18.4.
IDC Error ellipse: s-maj=18.9km s-min=11.6km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(162) South Island

WEL	**VI**	**07 15 54 46.6–.08**	**43.50S**	**172.15E**	**9–0**	**3.5L**	**¶601027044**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 18 30 41.4–1.1**	**38.59N–.05**	**142.04E–.08**	**46–10**	**3.7b**	**30**	**1-68**
NIED	VI	07 18 30 00	38.60N	141.90E	50	3.7W		**¶17205504**
ISCJB	VI	07 18 30 40.3–.93	38.59N–.04	142.0E–.10	52–8	3.6b,3.4s		
IDC	VI	07 18 30 42.5–2.4	38.58N	142.05E	61–23	3.7,3.5		
JMA	VI	07 18 30 42.1–.10	38.62N	141.91E	48–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ25.00000°,λ85.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ92.00000°. $M_0$4.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=5.6km az=18.1.
IDC Error ellipse: s-maj=28.6km s-min=18.0km az=105.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**07 18 48 55.3–1.6**	**38.26N–.05**	**141.9E–.10**	**52–13**	**3.7b**	**27**	**0-62**
NIED	VI	07 18 48 00	38.30N	141.80E	77	3.6W		**¶17205505**
IDC	VI	07 18 48 45.0–2.6	38.57N	142.65E	0	3.6,3.5b		
ISCJB	VI	07 18 48 54.8–.96	38.26N–.04	141.9E–.10	63–8	3.5b,3.5b		
JMA	VI	07 18 48 56.2	38.27N	141.82E	56–1	3.7,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ37.00000°,λ104.00000°. NP2:ϕ_s322.00000°,δ54.00000°,λ79.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=68.2km s-min=31.6km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=5.9km az=19.8.
JMA Event type fe.

(236) Shikoku

ISC	**VI**	**07 21 36 53.7–.62**	**33.95N–.03**	**132.99E–.03**	**44–5**	**3.9b**	**44**	**0-76**
NIED	VI	07 21 36 00	34.00N	133.00E	41	3.8W		**¶17205517**
ISCJB	VI	07 21 36 52.4–.32	33.96N–.03	132.99E–.04	48–3	3.8b,3.0s		
JMA	VI	07 21 36 52.8	33.96N	132.98E	40	3.8,3.0s		
IDC	VI	07 21 36 54.7–.98	33.89N	132.98E	59–6	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ35.00000°,λ-105.00000°. NP2:ϕ_s25.00000°,δ57.00000°,λ-80.00000°. $M_0$5.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.4km az=2.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s57.00000°,δ58.00000°,λ-46.00000°. NP2:ϕ_s177.00000°,δ53.00000°,λ-138.00000°. Principal axes: T Plg3.0000°,Azm118.0000°; N Plg36.0000°,Azm210.0000°; P Plg54.0000°,Azm24.0000°
IDC Error ellipse: s-maj=19.9km s-min=8.8km az=148.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**07 21 53 18.8–.10**	**37.23N**	**141.22E**	**35–1**	**3.5**	**¶600634219**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**VI**	**07 23 09 04.0–.10**	**37.10N**	**141.14E**	**51–1**	**3.6**		
NIED	VI	07 23 09 00	37.10N	141.20E	59	3.5W		**¶600634256**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ37.00000°,λ132.00000°. NP2:ϕ_s342.00000°,δ63.00000°,λ63.00000°. $M_0$2.27000×10^{14}

(332) Northern Xinjiang

ISC	**VI**	**08 01 53 26.2–.37**	**43.04N–.03**	**88.25E–.02**	**22–2**	**5.3b,5.1s**	**1066**	**1-153**
BJI	VI	08 01 53 23.4	42.95N	88.30E	10	5.5L,5.1s		**¶16575902**
MOS	VI	08 01 53 24.4–.93	43.02N	88.28E	23	5.5b,5.0s		
NNC	VI	08 01 53 24.5–1.9	43.03N	88.31E	19–10	5.6,5.6b		
ISCJB	VI	08 01 53 24.4–.10	43.02N–.02	88.23E–.02	20	5.2b,5.0s		
GCMT	VI	08 01 53 26.1–.20	43.03N	88.28E	24–0	5.1W,5.0s		
OBM	VI	08 01 53 26.0–.09	43.07N	88.18E	15	4.9L,5.0s		
NEIC	VI	08 01 53 26.1–.82	43.02N	88.25E	21–5	5.3b,5.0s		
IDC	VI	08 01 53 29.0–1.6	43.04N	88.34E	45–15	5.0,4.8b		

ISC Event type de.
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=40.0.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=11.3km az=85.0.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.7km az=15.3.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c73; s90,c154; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.29±.16 $M_{\theta\theta}$-4.48±.10; $M_{\phi\phi}$0.19±.09; $M_{r\theta}$2.23±.14; $M_{\theta\phi}$0.07±.07; $M_{\phi r}$0.68±.13; Best double couple: NP1:ϕ_s82.00000°,δ59.00000°,λ81.00000°. NP2:ϕ_s279.00000°,δ32.00000°,λ104.00000°. Principal axes: T 4.9200,Plg74.0000°,Azm328.0000°; N 0.0980,Plg8.0000°,Azm87.0000°; P -5.0160,Plg14.0000°,Azm179.0000° $M_0$4.96800×10^{16}
OBM Error ellipse: s-maj=2.2km s-min=1.1km az=177.0.
NEIC Event type de. Error ellipse: s-maj=2.8km s-min=2.1km az=189.0. At least eight people injured, 50 homes damaged and landslides occurred in the Dabancheng area. Felt [III] at Urumqi. Also felt at Korla.
IDC Error ellipse: s-maj=8.6km s-min=6.7km az=1.0.

(118) Peru-Bolivia border region

ISC	**VI**	**08 03 06 21.8–.22**	**17.21S–.03**	**69.69W–.03**	**141–1**	**5.8b**	**1872**	**1-178**
BJI	VI	08 03 06 18.9	17.10S	69.65W	100	5.6b		**¶16575907**
ISCJB	VI	08 03 06 21.6–.12	16.94S–.02	69.64W–.02	147	5.7b		
NEIC	VI	08 03 06 22.6–.14	17.08S	69.52W	146	5.9W,5.9W		
IDC	VI	08 03 06 22.8–.33	17.08S	69.78W	144–2	5.7,5.4		
GCMT	VI	08 03 06 22.6–.10	17.37S	69.84W	150–0	5.9W,5.4		
GUC	VI	08 03 06 22.2–.31	17.53S	70.00W	146–2	6.2L,5.4		
NEIC	VI	08 03 06 23.0–.00	17.08S	69.52W	146	6.2L,5.4		
SCB	VI	08 03 06 24.7–.43	17.15S	68.88W	150	5.6L,5.4		
MOS	VI	08 03 06 24.0–.93	16.74S	69.67W	139	6.0b,5.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=38.7.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=63.0. Felt [III] at Tacna and Tarata. Also felt at Arequipa, Ilo, Juliaca, Moquegua and Puno. Felt [II] at La Paz, Bolivia. Also felt at Cochabamba and El Alto. Felt [IV] at Codpa, Cuya and Poconchile; [III] at Arica, Camina, Pisagua and Putre; [II] at Alto Hospicio, Huara, Iquique and Pozo Almonte, Chile. Also felt at Antofagasta. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17} Nm; M_{rr}-2.79 $M_{\theta\theta}$-3.94 $M_{\phi\phi}$6.73 $M_{r\theta}$2.31 $M_{\theta\phi}$2.65 $M_{\phi r}$-4.52 Best double couple: NP1: ϕ_s337.00000°,δ77.00000°,λ-134.00000°. NP2:ϕ_s234.00000°,δ45.00000°,λ-18.00000°. Principal axes: T 8.7500,Plg20.0000°,Azm98.0000°; N -1.2600,Plg43.0000°,Azm349.0000°; P -7.4900,Plg41.0000°,Azm206.0000° $M_0$8.20000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s237.00000°,δ30.00000°,λ-4.00000°. NP2: ϕ_s330.00000°,δ88.00000°,λ-120.00000°. Principal axes: T Plg36.0000°,Azm86.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm213.0000°
IDC Error ellipse: s-maj=9.2km s-min=7.2km az=153.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c272; s137,c406;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.40±.01 $M_{\theta\theta}$-0.32±.01; $M_{\phi\phi}$0.72±.01; $M_{r\theta}$0.56±.01; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$-0.55±.01; Best double couple: NP1: ϕ_s321.00000°,δ76.00000°,λ-119.00000°. NP2:ϕ_s208.00000°,δ32.00000°,λ-27.00000°. Principal axes: T 1.0300,Plg25.0000°,Azm73.0000°; N -0.0400,Plg28.0000°,Azm329.0000°; P -0.9890,Plg50.0000°,Azm198.0000° $M_0$1.01000×10^{18}
GUC Error ellipse: s-maj=2.4km s-min=3.0km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.13 $M_{\theta\theta}$-4.43 $M_{\phi\phi}$8.57 $M_{r\theta}$3.37 $M_{\theta\phi}$-0.60 $M_{\phi r}$-4.69 Best double couple: NP1:ϕ_s326.00000°,δ73.00000°,λ-127.00000°. NP2:ϕ_s215.00000°,δ40.00000°,λ-26.00000°. Principal axes: T 10.3000,Plg19.0000°,Azm83.0000°; N -2.1000,Plg35.0000°,Azm338.0000°; P -8.2000,Plg48.0000°,Azm196.0000° $M_0$9.40000×10^{17}
SCB Event type ke. Error ellipse: s-maj=15.0km s-min=5.3km az=81.0.
MOS Error ellipse: s-maj=22.3km s-min=7.8km az=55.1.

(135) Near coast of central Chile

ISC	**VI**	**08 04 41 33.6–1.2**	**34.02S–.04**	**72.27W–.06**	**30–7**	**4.8b,4.5s**	**316**	**0-176**
IDC	VI	08 04 41 29.1–.65	34.05S	72.13W	0	4.6,4.5		**¶16577425**
ISCJB	VI	08 04 41 31.2–1.1	34.00S–.03	72.36W–.05	21–8	4.7b,4.5s		
BJI	VI	08 04 41 31.5	34.56S	71.94W	27	5.2s,5.1b		
NEIC	VI	08 04 41 31.0	34.03S	72.20W	23	4.9b,4.9L		
GUC	VI	08 04 41 31.3–.59	34.03S	72.20W	23–3	4.9L,4.9L		

ISC Event type fe.
IDC Error ellipse: s-maj=23.8km s-min=19.3km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.9km az=18.4.
NEIC Event type fe. Felt [III] at Talca and Vina del Mar and [II] at Constitucion, Curico, Iloca, Linares, Litueche, Melipilla, Navidad, Paredones, Pencahue, Pichilemu, Rancagua, San Antonio, Santiago, Santo Domingo and Tiltil. Also felt at Los Andes, Valparaiso and Villa Alemana. After GUC.
GUC Error ellipse: s-maj=2.4km s-min=4.7km az=-1.0.

(224) Hokkaido region

ISC	**VI**	**08 07 53 44.5–1.0**	**41.30N–.03**	**142.65E–.04**	**29–7**	**4.4b,3.5s**	**161**	**1-87**
NIED	VI	08 07 53 00	41.30N	142.70E	32	4.1W,3.5s		**¶16577428**
BJI	VI	08 07 53 37.6	41.39N	143.15E	20	4.6b,4.6b		
JMA	VI	08 07 53 45.6–.10	41.31N	142.67E	38–4	4.1,4.6b		
MOS	VI	08 07 53 45.3–1.2	41.40N	142.62E	49	4.6b,4.6b		
NEIC	VI	08 07 53 48.4–.53	41.41N	142.56E	58–5	4.6b,4.6b		
IDC	VI	08 07 53 50.2–2.0	41.35N	142.47E	77–17	4.2,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ22.00000°,λ124.00000°. NP2:ϕ_s22.00000°,δ72.00000°,λ77.00000°. $M_0$1.78000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=95.8.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=137.0. Recorded [1 JMA] in southwestern Hokkaido. Also recorded [1 JMA] in Aomori, Honshu.
IDC Error ellipse: s-maj=15.0km s-min=12.9km az=126.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**08 12 27 00.9–.10**	**37.26N**	**141.19E**	**35–1**	**3.5**	
NIED	VI	08 12 27 00	37.30N	141.20E	50	3.6W	**¶600634780**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ37.00000°,λ-39.00000°. NP2:ϕ_s358.00000°,δ68.00000°,λ-120.00000°. $M_0$2.84000×10^{14}

(705) Off west coast of northern Sumatera

ISC	**VI**	**08 15 57 27.1–1.4**	**3.91N–.06**	**95.91E–.09**	**56–11**	**4.2b**	**53**	**1-142**
ISCJB	VI	08 15 57 27.4–.94	3.91N–.05	95.93E–.07	77–8	4.1b		**¶16684509**
NEIC	VI	08 15 57 28.4–1.1	3.90N	95.89E	70–9	4.3b		
IDC	VI	08 15 57 30.7–6.0	4.00N	95.94E	86–52	4.3L,4.2		
DJA	VI	08 15 57 30.5–1.1	4N–4.0	96E–7.0	20–5	4.2,4.2		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Meulaboh.

(705) Off west coast of northern Sumatera

ISC	**VI**	**08 16 32 19.0–.34**	**1.17N–.03**	**96.75E–.03**	**23–1**	**5.3b,4.7s**	**893**	**1-157**
BJI	VI	08 16 32 15.5	1.01N	96.78E	20	5.5s,5.3		**¶16577432**
IDC	VI	08 16 32 15.3–.34	1.14N	96.76E	0	5.1,5.1b		
KLM	VI	08 16 32 17.3	1.19N	96.65E	10	6.2s,5.3b		
NEIC	VI	08 16 32 18.5–1.1	1.17N	96.78E	21–7	5.3b,5.3W		
MOS	VI	08 16 32 18.2–1.0	1.23N	96.75E	28	5.4b,4.7s		
GCMT	VI	08 16 32 18.5–.20	1.22N	96.70E	12	5.3W,4.7s		
ISCJB	VI	08 16 32 18.0–.65	1.16N–.02	96.77E–.02	29–4	5.2b,4.8s		
DJA	VI	08 16 32 19.9–.20	1N–2.0	97E–2.0	10	5.5b,5.4		

ISC Event type fe.
NEIC Event type fe. Felt at Kuala Lumpur, Malaysia. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.54 $M_{\theta\theta}$2.67 $M_{\phi\phi}$2.87 $M_{r\theta}$5.78 $M_{\theta\phi}$-2.01 $M_{\phi r}$-5.42 Best double couple: NP1:ϕ_s138.00000°,δ17.00000°,λ-86.00000°. NP2:ϕ_s314.00000°,δ73.00000°,λ-91.00000°. Principal axes: T 9.0600,Plg28.0000°,Azm45.0000°; N 0.7700,Plg1.0000°,Azm314.0000°; P -9.8300,Plg62.0000°,Azm222.0000° $M_0$9.50000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c105; s107,c188;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.59±.01 $M_{\theta\theta}$0.27±.01; $M_{\phi\phi}$0.32±.01; $M_{r\theta}$0.89±.03; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$-0.32±.03; Best double couple: NP1:ϕ_s295.00000°,δ75.00000°,λ-100.00000°. NP2:ϕ_s151.00000°,δ18.00000°,λ-56.00000°. Principal axes: T 1.0360,Plg29.0000°,Azm33.0000°; N 0.1230,Plg10.0000°,Azm298.0000°; P -1.1590,Plg59.0000°,Azm191.0000° $M_0$1.09800×10^{17}
ISCJB Event type fe.

(22) Queen Charlotte Islands region

PGC	**VI**	**08 16 59 42.1–1.8**	**51.89N**	**131.50W**	**20**	**3.9L**	**¶16577434**

PGC Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 153km Sse of Sandspit, Bc Haida Gwaii Region Felt (I) at Skidegate.

(228) Near east coast of eastern Honshu

ISC	**VI**	**08 22 11 15.2–.31**	**38.99N–.03**	**142.45E–.03**	**35–1**	**4.9b,4.6s**	**635**	**1-146**
NIED	VI	08 22 11 00	39.00N	142.50E	32	4.9W,4.6s		**¶16580629**
BJI	VI	08 22 11 14.0	38.92N	142.38E	44	5.0b,4.9b		
JMA	VI	08 22 11 14.0–.10	39.04N	142.44E	34–1	5.0,4.9b		
ISCJB	VI	08 22 11 15.0–.34	39.03N–.02	142.36E–.02	40–2	4.9b,4.6s		
MOS	VI	08 22 11 15.1–.99	39.19N	142.30E	33	5.1b,4.5s		
IDC	VI	08 22 11 18.0–1.8	39.04N	142.38E	55–15	4.5,4.4		
GCMT	VI	08 22 11 17.4–.40	39.20N	142.36E	32–1	5.0W,4.4		
NEIC	VI	08 22 11 17.4–.36	39.03N	142.32E	47–3	5.1b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ19.00000°,λ-101.00000°. NP2:ϕ_s186.00000°,δ71.00000°,λ-86.00000°. $M_0$2.72000×10^{16}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s171.00000°,δ63.00000°,λ-76.00000°. NP2:ϕ_s323.00000°,δ30.00000°,λ-115.00000°. Principal axes: T Plg17.0000°,Azm251.0000°; N Plg12.0000°,Azm345.0000°; P Plg69.0000°,Azm109.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=145.7.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=104.0.
IDC Error ellipse: s-maj=12.4km s-min=8.9km az=115.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c37; s74,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.37±.20 $M_{\theta\theta}$-0.13±.12; $M_{\phi\phi}$2.50±.13; $M_{r\theta}$0.03±.15; $M_{\theta\phi}$0.07±.08; $M_{\phi r}$3.07±.21; Best double couple: NP1:ϕ_s181.00000°,δ71.00000°,λ-91.00000°. NP2:ϕ_s2.00000°,δ19.00000°,λ-89.00000°. Principal axes: T 3.9850,Plg26.0000°,Azm271.0000°; N -0.1270,Plg0.0000°,Azm181.0000°; P -3.8530,Plg64.0000°,Azm90.0000° $M_0$3.91900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=139.0. Recorded [4 JMA] in Iwate and Miyagi.

(246) Southwestern Ryukyu Islands

ISC	**VI**	**09 00 12 08.3–.51**	**25.03N–.04**	**125.97E–.03**	**49–4**	**4.6b,3.7s**	**279**	**1-100**
NIED	VI	09 00 12 00	25.10N	125.90E	47	4.7W,3.7s		**¶16580431**
IDC	VI	09 00 12 01.3–.61	24.99N	125.81E	0	4.4,4.3		
BJI	VI	09 00 12 03.0	24.68N	126.18E	40	4.6b,4.3b		
ISCJB	VI	09 00 12 06.6–.31	24.99N–.03	125.97E–.02	52–2	4.6b,3.7s		
JMA	VI	09 00 12 06.8–.10	25.01N	125.95E	61–2	4.4,3.7s		
MOS	VI	09 00 12 07.5–1.1	25.02N	125.69E	55	4.9b,3.7s		
NEIC	VI	09 00 12 08.8–.59	24.97N	125.85E	56–5	4.7b,3.7s		
BKK	VI	09 00 12 40.4–2.9	26N–61	123E–49	10	4.4,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ66.00000°,λ-176.00000°. NP2:ϕ_s131.00000°,δ87.00000°,λ-24.00000°. $M_0$1.14000×10^{16}
ISCJB Event type fe.
JMA Event type fe.
NEIC Event type fe. Recorded [1 JMA] on Kume-jima and Miyako-jima.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 00 49 02.0–1.2**	**36.92N–.05**	**140.65E–.06**	**8–11**	**3.7b**	**14**	**0-57**
JMA	VI	09 00 49 02.1	36.93N	140.67E	9–1	3.3		**¶17205581**
IDC	VI	09 00 49 05.5–1.6	36.24N	140.46E	0	3.7,3.5		

ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s160.00000°,δ64.00000°,λ-100.00000°. NP2:ϕ_s3.00000°,δ27.00000°,λ-70.00000°. Principal axes: T Plg19.0000°,Azm258.0000°; N Plg9.0000°,Azm165.0000°; P Plg69.0000°,Azm50.0000°
IDC Error ellipse: s-maj=27.2km s-min=17.2km az=26.0.

(226) Near west coast of eastern Honshu

JMA	**VI**	**09 04 33 36.8**	**36.35N**	**136.74E**	**7–1**	**3.7**		
NIED	VI	09 04 33 00	36.40N	136.80E	5	4.0W		**¶16580436**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s168.00000°,δ84.00000°,λ12.00000°. NP2:ϕ_s77.00000°,δ78.00000°,λ174.00000°. Principal axes: T Plg13.0000°,Azm33.0000°; N Plg76.0000°,Azm195.0000°; P Plg4.0000°,Azm302.0000°

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ68.00000°,λ12.00000°. NP2:ϕ_s259.00000°,δ79.00000°,λ158.00000°. $M_0$1.31000×10^{15}

(227) Eastern Honshu

ISC	**VI**	**09 04 47 09.4–.86**	**39.67N–.04**	**140.83E–.05**	**10**	**3.9b**	**23**	**0-63**
NIED	VI	09 04 47 00	39.60N	140.60E	14	3.3W		**¶16580439**
IDC	VI	09 04 47 07.3–1.8	39.87N	141.25E	0	3.9,3.8		
ISCJB	VI	09 04 47 10.0–.46	39.63N–.03	140.69E–.04	10	3.7b,3.8		
JMA	VI	09 04 47 10.7	39.61N	140.63E	4–1	3.6,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ28.00000°,λ-26.00000°. NP2:ϕ_s26.00000°,δ78.00000°,λ-116.00000°. $M_0$1.10000×10^{14}

IDC Error ellipse: s-maj=44.2km s-min=20.5km az=69.0.

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=155.2.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s214.00000°,δ90.00000°,λ100.00000°. NP2:ϕ_s304.00000°,δ10.00000°,λ0.00000°. Principal axes: T Plg44.0000°,Azm134.0000°; N Plg10.0000°,Azm34.0000°; P Plg44.0000° ,Azm294.0000°

(221) Kuril Islands

ISC	**VI**	**09 07 12 02.1–.63**	**44.03N–.04**	**147.77E–.04**	**77–4**	**4.8b**	**881**	**1-153**
NIED	VI	09 07 12 00	43.80N	147.80E	83	4.7W		**¶16580457**
ISCJB	VI	09 07 12 01.9–.30	44.08N–.03	147.75E–.02	86–2	4.8b		
MOS	VI	09 07 12 01.6–.96	44.07N	147.75E	84	5.0b		
BJI	VI	09 07 12 01.9	44.09N	148.01E	102	4.8b,4.7b		
IDC	VI	09 07 12 02.7–2.0	44.07N	147.75E	80–17	4.8,4.6		
JMA	VI	09 07 12 02.4–.20	43.78N	147.85E	57	4.5,4.6		
SKHL	VI	09 07 12 02.7–.40	43.91N	147.76E	96–2	5.1s,5.1b		
NEIC	VI	09 07 12 04.2–.52	44.20N	147.71E	87–4	4.8b,5.1b		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ20.00000°,λ22.00000°. NP2:ϕ_s62.00000°,δ83.00000°,λ109.00000°. $M_0$1.06000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=163.3.

MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.1km az=104.4. Felt (II) at Malokuril'skoye. Moment Tensor Solution.

IDC Error ellipse: s-maj=15.5km s-min=10.4km az=153.0.

JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

SKHL Event type fe. Felt (II) at Malokurilskoe (74 km).

NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=2.6km az=171.0. Felt [II] at Shakotan.

(316) Bangladesh

ISC	**VI**	**09 07 34 27.2–.41**	**23.59N–.04**	**89.64E–.03**	**35**	**4.0b,3.1s**	**125**	**3-83**
ISCJB	VI	09 07 34 25.4–.25	23.61N–.03	89.66E–.02	33	4.0b,3.2s		**¶16581053**
NEIC	VI	09 07 34 27.4–.35	23.60N	89.66E	35	4.4b,3.2s		
IDC	VI	09 07 34 27.1–.62	23.69N	89.60E	30–3	4.8L,3.8		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=14.1.

NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=39.0. Felt [II] at Dhaka. Also felt at Bogra and Narayanganj. Felt at Calcutta, India.

IDC Error ellipse: s-maj=17.9km s-min=11.8km az=43.0.

(2) Southern Alaska

ISC	**VI**	**09 07 40 30.4–.66**	**59.58N–.04**	**152.45W–.04**	**83–6**	**4.0b**	**168**	**0-149**
ISCJB	VI	09 07 40 28.9–.19	59.55N–.02	152.36W–.04	94–2	4.0b		**¶16580442**
NEIC	VI	09 07 40 31.0	59.57N	152.49W	83	4.3b		
IDC	VI	09 07 40 32.2–2.7	59.81N	152.61W	96–22	3.8,3.6		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=143.9.

NEIC Event type fe. Felt at Anchor Point and Homer. After AEIC.

IDC Error ellipse: s-maj=20.4km s-min=14.6km az=26.0.

(229) Off east coast of Honshu

ISC	**VI**	**09 10 26 04.9–.39**	**37.27N–.03**	**142.24E–.03**	**16–1**	**5.2b,4.8s**	**912**	**1-151**
NIED	VI	09 10 26 00	37.20N	142.20E	5	5.1W,4.8s		**¶16580463**
IDC	VI	09 10 26 02.4–.39	37.26N	142.25E	0	4.9,4.9		
ISCJB	VI	09 10 26 02.6–.68	37.25N–.02	142.21E–.02	9–4	5.1b,4.9s		
JMA	VI	09 10 26 02.8–.30	37.23N	142.28E	22–5	5.2,4.9s		
BJI	VI	09 10 26 04.1	37.24N	142.08E	21	5.1b,5.0s		
MOS	VI	09 10 26 06.3–.94	37.45N	142.16E	32	5.3b,5.0s		
NEIC	VI	09 10 26 08.2–.12	37.26N	142.15E	35	5.1b,5.0s		
GCMT	VI	09 10 26 08.2–.20	37.25N	142.20E	12	5.0W,5.0s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ33.00000°,λ-78.00000°. NP2:ϕ_s185.00000°,δ58.00000°,λ-98.00000°. $M_0$4.78000×10^{16}

IDC Error ellipse: s-maj=11.6km s-min=9.0km az=101.0.

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=166.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=6.1km s-min=4.2km az=108.5.

NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=148.0. Recorded [2 JMA] in Fukushima and Miyagi.

GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c57; s118,c190; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.61±.09 $M_{\theta\theta}$0.28±.09; $M_{\phi\phi}$4.32±.08; $M_{r\theta}$-0.76±.31; $M_{\theta\phi}$1.00±.08; $M_{\phi r}$0.46±.27; Best double couple: NP1:ϕ_s183.00000°,δ48.00000° ,λ-103.00000°. NP2:ϕ_s23.00000°,δ44.00000°,λ-76.00000°. Principal axes: T 4.5630,Plg2.0000°,Azm283.0000°; N 0.1960,Plg10.0000°,Azm193.0000° ; P -4.7660,Plg80.0000°,Azm23.0000° $M_0$4.66400×10^{16}

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 10 38 33.9–.46**	**36.50N–.02**	**140.97E–.03**	**13–2**	**5.3b,5.2s**	**1097**	**0-158**
NIED	VI	09 10 38 00	36.50N	140.90E	5	5.5W,5.2s		**¶16580633**
BJI	VI	09 10 38 30.8	36.27N	140.97E	15	5.7s,5.5		
IDC	VI	09 10 38 31.5–.39	36.50N	140.83E	0	5.0,5.0		
JMA	VI	09 10 38 32.9–.10	36.50N	140.97E	13–2	5.7,5.0		
ISCJB	VI	09 10 38 34.0–.42	36.48N–.02	140.88E–.02	22–2	5.2s,5.2b		
MOS	VI	09 10 38 33.4–1.2	36.55N	140.93E	24	5.4b,5.2s		
GCMT	VI	09 10 38 34.5–.10	36.47N	140.90E	12	5.4W,5.2s		
NEIC	VI	09 10 38 34.5–1.6	36.48N	140.77E	16–9	5.3b,5.2s		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ36.00000°,λ-32.00000°. NP2:ϕ_s142.00000°,δ72.00000°,λ-122.00000°. $M_0$1.96000×10^{17}

IDC Error ellipse: s-maj=12.4km s-min=9.8km az=88.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s352.00000°,δ52.00000°,λ-106.00000°. NP2:ϕ_s198.00000°,δ41.00000°,λ-70.00000°. Principal axes: T Plg6.0000°,Azm94.0000°; N Plg13.0000°,Azm3.0000°; P Plg76.0000° ,Azm207.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=147.6.

MOS Error ellipse: s-maj=6.9km s-min=4.8km az=104.7.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c116; s131,c251; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.02 $M_{\theta\theta}$-0.88±.02; $M_{\phi\phi}$1.73±.02; $M_{r\theta}$0.47±.05; $M_{\theta\phi}$-0.44±.02; $M_{\phi r}$0.49±.05; Best double couple: NP1:ϕ_s206.00000°,δ68.00000° ,λ-40.00000°. NP2:ϕ_s313.00000°,δ54.00000°,λ-152.00000°. Principal axes: T 1.8650,Plg9.0000°,Azm262.0000°; N -0.3990,Plg45.0000°,Azm1.0000° ; P -1.4680,Plg43.0000°,Azm164.0000° $M_0$1.66700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=140.0. Felt [III] at Narita and Tokyo. Also felt at Abiko, Ageo, Ashikaga, Chiba, Enzan, Ichinoseki, Kashiwa, Kumagaya and Sendai. Recorded [4 JMA] in Ibaraki and Tochigi.

(238) Ryukyu Islands

ISC	**VI**	**09 11 20 49.4–1.0**	**28.19N–.04**	**129.50E–.05**	**17–7**	**3.7b**	**43**	**0-88**
IDC	VI	09 11 20 47.2–.82	28.23N	129.16E	0	3.8,3.7L		**¶17205617**
ISCJB	VI	09 11 20 50.7–.40	28.29N–.03	129.55E–.04	27–3	3.6b,3.7L		
JMA	VI	09 11 20 50.9–.10	28.30N	129.56E	26–2	3.9,3.7L		

ISC Event type ke.

IDC Error ellipse: s-maj=28.9km s-min=19.4km az=85.0.

ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.1km az=33.8.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**09 14 54 43.4–.10**	**37.45N**	**141.52E**	**42–2**	**3.8**		
NIED	VI	09 14 54 00	37.40N	141.60E	56	3.6W		**¶600635859**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ45.00000°,λ93.00000°. NP2:ϕ_s32.00000°,δ46.00000°,λ87.00000°. $M_0$2.56000×10^{14}

(45) California-Baja California border region

ISC	**VI**	**09 15 22 12.0–.80**	**32.67N–.02**	**115.75W–.02**	**9–5**	**4.0b,3.0s**	**212**	**0-119**
ISCJB	VI	09 15 22 10.9–.27	32.67N–.01	115.71W–.01	9–2	4.2b,2.9s		**¶16581056**
MEX	VI	09 15 22 11.0–.49	33.00N	115.71W	16–35	4.3,2.9s		
IDC	VI	09 15 22 11.4–1.4	32.72N	115.71W	0	3.9,3.9L		
IASPE	VI	09 15 22 11.2–.92	32.68N–.02	115.73W–.02	18–4	4.0b,3.0s		
NEIC	VI	09 15 22 12.6	32.64N	115.74W	3	4.6L,4.4L		
ECX	VI	09 15 22 12.6–.68	32.64N	115.74W	3	4.6L,4.4L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=2.3.

MEX Error ellipse: s-maj=25.5km s-min=12.3km az=-1.0.

IDC Error ellipse: s-maj=28.4km s-min=8.7km az=40.0.

IASPE Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=169.0. GT5 selection from ISC bulletin. GT5 identified by Bond¨ jr and McLaughlin (2009) selection criteria. Bond¨ jr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.

NEIC Event type fe. Felt [II] at Mexicali. Also felt at Ensenada and Tijuana. Felt [III] at Brawley, El Centro and Imperial; [II] at Aliso Viejo, Borrego Springs, Calexico, Coronado, El Cajon, La Jolla and San Diego, California. Felt in Imperial, Orange, Riverside and San Diego Counties. After ECX.

ECX Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 15 40 56.0–.46**	**37.93N–.03**	**141.66E–.04**	**47–3**	**4.7b,3.4s**	**427**	**1-146**
NIED	VI	09 15 40 00	37.90N	141.70E	53	4.4W,3.4s		**¶16587349**
BJI	VI	09 15 40 53.4	37.72N	141.90E	54	4.7b,4.7b		
ISCJB	VI	09 15 40 55.9–.33	37.89N–.02	141.60E–.03	59–2	4.7b,3.3s		
MOS	VI	09 15 40 56.3–.86	38.16N	141.55E	50	4.9b,3.3s		
JMA	VI	09 15 40 56.3–.10	37.90N	141.65E	49–1	4.4,3.3s		
IDC	VI	09 15 40 56.6–.54	37.88N	141.61E	50–5	4.5,4.4		
NEIC	VI	09 15 40 57.5–.43	37.89N	141.58E	58–4	4.7b,4.4		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ27.00000°,λ78.00000°. NP2:ϕ_s26.00000°,δ63.00000°,λ96.00000°. $M_0$4.18000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=41.2.

MOS Error ellipse: s-maj=6.7km s-min=4.5km az=105.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=12.1km s-min=9.1km az=107.0.

NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=135.0. Recorded [2 JMA] in Fukushima and Miyagi.

(391) Albania

ISC	**VI**	**09 16 16 34.2–.98**	**40.69N–.01**	**19.88E–.02**	**12–6**	**4.2b,3.2s**	**927**	**1-123**
PRU	VI	09 16 16 28.8	40.29N	19.46E	0	4.5,3.2s		**¶603247069**
ROM	VI	09 16 16 31.4–.34	40.56N	20.22E	10	4.3L,3.2s		
ATH	VI	09 16 16 32.7	40.77N	19.81E	13–1	3.9L,3.2s		
IDC	VI	09 16 16 32.4–.67	40.66N	19.78E	0	4.0,4.0b		
MOS	VI	09 16 16 33.3–1.0	40.71N	19.68E	18	4.4b,4.0b		
TIR	VI	09 16 16 33.8	40.74N	19.88E	15	4.1L,4.0b		
NEIC	VI	09 16 16 33.0	40.72N	19.86E	7	4.5b,4.1L		
LDG	VI	09 16 16 34.6–.08	40.68N	19.86E	10	4.2L,4.1L		
THE	VI	09 16 16 34.4	40.68N	19.92E	2–1	4.1L,4.1L		
PDG	VI	09 16 16 34.3–.72	40.70N	19.81E	11–1	4.0,4.0L		
CSEM	VI	09 16 16 35.0–.06	40.70N	19.83E	10	4.6b,4.3L		
BEO	VI	09 16 16 38.3–.71	40.81N	19.98E	21–3	3.9,4.3L		

ISC Event type ke.

ROM Event type ke. Error ellipse: s-maj=5.7km s-min=2.0km az=119.0.

ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=162.0.

IDC Error ellipse: s-maj=11.4km s-min=9.8km az=33.0.

MOS Error ellipse: s-maj=4.8km s-min=3.3km az=103.3.

NEIC Event type fe. Felt at Ballsh and Berat. After TIR.

LDG Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=39.0.

THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=139.0.

PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.

CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=45.0.

BEO Event type ke.

(460) Wyoming

ISC	**VI**	**09 18 12 16.8–.93**	**43.53N–.04**	**105.36W–.04**	**0**		**23**	**1-14**
ISCJB	VI	09 18 12 17.7–.66	43.50N–.06	105.25W–.07	0			**¶17205650**
IDC	VI	09 18 12 17.4–1.6	43.69N	105.60W	0	3.7,3.5		
NEIC	VI	09 18 12 18.5–.65	43.52N	105.22W	0	3.1L,3.5		

ISC Event type sm.

ISCJB Event type fm. Error ellipse: s-maj=9.8km s-min=6.7km az=24.4.

IDC Error ellipse: s-maj=32.2km s-min=10.1km az=150.0.

NEIC Event type fm. Error ellipse: s-maj=9.9km s-min=7.5km az=171.0. 85 km [53 miles] N of Douglas. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 18 15 52.9–.45**	**40.15N–.03**	**142.48E–.04**	**42–3**	**4.9b,4.2s**	**411**	**1-144**
NIED	VI	09 18 15 00	40.20N	142.40E	41	4.8W,4.2s		**¶16581060**
BJI	VI	09 18 15 48.4	39.96N	142.77E	42	4.9b,4.9b		
ISCJB	VI	09 18 15 52.8–.39	40.18N–.02	142.37E–.04	48–3	4.9b,4.2s		
JMA	VI	09 18 15 53.3–.10	40.15N	142.40E	37–1	4.7,4.2s		
MOS	VI	09 18 15 53.4–.92	40.33N	142.31E	47	5.1b,4.2s		
IDC	VI	09 18 15 53.4–.67	40.14N	142.36E	42–5	4.7,4.6		
NEIC	VI	09 18 15 54.9–.63	40.20N	142.30E	54–5	4.8b,4.6		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ19.00000°,λ65.00000°. NP2:ϕ_s27.00000°,δ73.00000°,λ98.00000°. $M_0$1.66000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=32.9.

JMA Event type fe.

MOS Error ellipse: s-maj=6.6km s-min=4.0km az=111.8.

IDC Error ellipse: s-maj=12.1km s-min=10.4km az=124.0.

NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=134.0. Recorded [3 JMA] in Iwate.

(224) Hokkaido region

ISC	**VI**	**09 18 34 00.6–.81**	**42.04N–.05**	**142.52E–.04**	**63–7**	**3.7b**	**40**	**0-86**
ISCJB	VI	09 18 34 00.1–.43	42.05N–.04	142.53E–.04	72–3	3.6b		**¶17205651**
JMA	VI	09 18 34 00.9–.10	42.03N	142.56E	62–2	3.5		
NIED	VI	09 18 34 00	42.00N	142.50E	71	3.8W		
IDC	VI	09 18 34 02.3–2.4	42.13N	142.44E	76–19	3.6,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.0km az=145.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s70.00000°,δ64.00000°,λ110.00000°. NP2: ϕ_s210.00000°,δ32.00000°,λ55.00000°. Principal axes: T Plg65.0000°,Azm15.0000° ; N Plg18.0000°,Azm241.0000°; P Plg17.0000°,Azm145.0000°

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ21.00000°,λ20.00000°. NP2:ϕ_s57.00000°,δ83.00000°,λ110.00000°. $M_0$6.45000×10^{14}

IDC Error ellipse: s-maj=31.8km s-min=20.3km az=142.0.

(135) Near coast of central Chile

ISC	**VI**	**09 19 35 59.6–1.7**	**34.64S–.03**	**71.95W–.08**	**1–10**	**4.4b,3.1s**	**51**	**1-167**
IDC	VI	09 19 35 59.7–.66	34.56S	71.81W	0	4.5L,4.4		**¶16856804**
ISCJB	VI	09 19 36 01.4–1.4	34.67S–.03	72.01W–.08	19–10	4.3b,3.2s		
NEIC	VI	09 19 36 02.0	34.69S	71.91W	25	4.6b,4.2L		
GUC	VI	09 19 36 02.2–.48	34.69S	71.91W	25–3	4.2L,4.2L		

ISC Event type fe.

IDC Error ellipse: s-maj=32.7km s-min=16.5km az=87.0.

ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=4.1km az=21.3.

NEIC Event type fe. Felt [III] at Chepica, Curico, Lolol, Molina, Paredones, Pichilemu, Santa Cruz and Talca; [II] at Constitucion, Iloca, Longavi, Pencahue and Rancagua. After GUC.

GUC Error ellipse: s-maj=1.7km s-min=3.3km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 19 54 03.9–1.0**	**39.67N–.04**	**142.14E–.09**	**48–8**	**3.7b**	**34**	**0-67**
NIED	VI	09 19 54 00	39.70N	142.10E	50	3.8W		**¶17205655**
ISCJB	VI	09 19 54 03.2–.69	39.68N–.03	142.13E–.10	55–5	3.6b,3.2s		
JMA	VI	09 19 54 04.0	39.71N	142.13E	48–1	3.7,3.2s		
IDC	VI	09 19 54 05.6–2.2	39.65N	142.17E	68–21	3.7,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ20.00000°,λ81.00000°. NP2:ϕ_s29.00000°,δ71.00000°,λ93.00000°. $M_0$5.02000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.1km az=4.6.

JMA Event type fe.

IDC Error ellipse: s-maj=25.8km s-min=17.6km az=100.0.

(229) Off east coast of Honshu

ISC	**VI**	**09 20 30 05.2–.77**	**37.77N–.05**	**142.58E–.06**	**29–4**	**4.0b**	**46**	**1-146**
NIED	VI	09 20 30 00	37.80N	142.50E	35	4.0W		**¶17205657**
ISCJB	VI	09 20 30 05.0–1.0	37.79N–.04	142.52E–.08	38–9	3.9b		
JMA	VI	09 20 30 05.9–.20	37.80N	142.43E	42–4	4.3		

IDC VI 09 20 30 07.3–.79 37.71N 142.42E 42–7 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ19.00000°,λ89.00000°. NP2:ϕ_s227.00000°,δ71.00000°,λ90.00000°. $M_0$9.58000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.4km az=15.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=13.9km az=87.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 20 44 15.8–1.1**	**35.75N–.06**	**140.84E–.09**	**14–6**		**15**	**0-56**
NIED	VI	09 20 44 00	35.70N	140.80E	11	3.7W		**¶17205659**
ISCJB	VI	09 20 44 14.3–1.2	35.78N–.05	141.01E–.09	16–6	3.3b		
IDC	VI	09 20 44 14.6–3.8	35.64N	140.77E	0	3.4,3.3b		
JMA	VI	09 20 44 16.1–.10	35.74N	140.84E	14–1	3.5,3.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ31.00000°,λ-111.00000°. NP2:ϕ_s164.00000°,δ61.00000°,λ-78.00000°. $M_0$3.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=8.4km az=159.8.
IDC Error ellipse: s-maj=108.3km s-min=26.5km az=49.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 20 51 26.5–.47**	**36.26N–.05**	**141.54E–.06**	**38–2**	**4.6b,4.5s**	**157**	**1-147**
NIED	VI	09 20 51 00	36.30N	141.60E	11	4.5W,4.5s		**¶16581495**
IDC	VI	09 20 51 20.9–.57	36.20N	141.53E	0	4.4,4.3		
NEIC	VI	09 20 51 22.8–2.1	36.20N	141.61E	13–13	4.8b,4.3		
JMA	VI	09 20 51 24.6–.10	36.23N	141.53E	53–3	4.5,4.3		
ISCJB	VI	09 20 51 24.3–.61	36.21N–.03	141.58E–.05	36–4	4.5b,4.4s		
MOS	VI	09 20 51 27.1–.92	36.64N	141.31E	35	4.9b,4.4s		
BJI	VI	09 20 51 28.9	36.28N	140.86E	40	4.8b,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ17.00000°,λ101.00000°. NP2:ϕ_s21.00000°,δ74.00000°,λ87.00000°. $M_0$7.40000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.9km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=122.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=7.1.
MOS Error ellipse: s-maj=9.2km s-min=5.5km az=126.8.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 21 03 15.7–1.1**	**35.67N–.04**	**140.78E–.07**	**13–7**	**3.6b**	**25**	**0-71**
NIED	VI	09 21 03 00	35.80N	140.90E	14	3.8W		**¶17205661**
IDC	VI	09 21 03 13.9–1.1	35.63N	140.81E	0	3.8,3.7		
ISCJB	VI	09 21 03 14.9–.82	35.73N–.04	141.01E–.07	22–5	3.6b,3.7		
JMA	VI	09 21 03 16.4–.20	35.74N	140.83E	13–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ35.00000°,λ-127.00000°. NP2:ϕ_s201.00000°,δ63.00000°,λ-68.00000°. $M_0$6.37000×10^{14}
IDC Error ellipse: s-maj=28.9km s-min=17.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.0km az=170.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**09 21 44 21.4–1.5**	**37.77N–.04**	**141.72E–.09**	**42–13**	**4.0b**	**40**	**1-79**
NIED	VI	09 21 44 00	37.80N	141.60E	47	3.7W		**¶16713157**
IDC	VI	09 21 44 14.0–1.5	37.90N	142.12E	0	3.9,3.8		
ISCJB	VI	09 21 44 21.4–.82	37.76N–.04	141.62E–.09	58–5	3.9b,3.8		
JMA	VI	09 21 44 22.6	37.78N	141.57E	49–1	3.7,3.8		
NEIC	VI	09 21 44 24.9–1.9	37.71N	141.50E	74–15	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ25.00000°,λ74.00000°. NP2:ϕ_s18.00000°,δ66.00000°,λ97.00000°. $M_0$4.54000×10^{14}
IDC Error ellipse: s-maj=44.8km s-min=18.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.7km az=12.4.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=20.2km s-min=12.4km az=71.0. Recorded [1 JMA] in Fukushima and Miyagi.

(227) Eastern Honshu

ISC	**VI**	**09 22 05 59.1–.76**	**38.99N–.04**	**141.51E–.08**	**81–5**	**3.6b**	**29**	**0-67**
ISCJB	VI	09 22 05 58.7–.56	39.02N–.04	141.51E–.10	88–4	3.5b		**¶17205666**
IDC	VI	09 22 05 59.1–1.1	39.06N	141.55E	76–8	3.6,3.4		
JMA	VI	09 22 06 00.4	39.04N	141.46E	78–1	3.4,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=6.6km az=9.9.
IDC Error ellipse: s-maj=27.7km s-min=18.4km az=93.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s42.00000°,δ66.00000°,λ147.00000°. NP2:ϕ_s147.00000°,δ60.00000°,λ28.00000°. Principal axes: T Plg40.0000°,Azm3.0000°; N Plg50.0000°,Azm191.0000°; P Plg4.0000° ,Azm96.0000°

(136) Central Chile

ISC	**VI**	**09 23 04 07.9–.49**	**39.36S–.05**	**72.43W–.08**	**115**	**4.5b**	**63**	**1-160**
SJA	VI	09 23 03 58.5–.50	39.65S	73.10W	114–26	4.1W,3.7L		**¶16587352**
ISCJB	VI	09 23 04 06.8–.42	39.29S–.04	72.19W–.09	115	4.6b,3.7L		
NEIC	VI	09 23 04 06.0	39.31S	72.70W	113	4.7b,3.7L		
IDC	VI	09 23 04 06.8–2.2	39.33S	71.90W	89–19	4.3,4.0		
GUC	VI	09 23 04 06.6–.41	39.31S	72.70W	113–2	4.6L,4.0		

ISC Event type fe.
SJA Error ellipse: s-maj=3.3km s-min=24.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.1km az=170.8.
NEIC Event type fe. Felt [IV] at Villarrica, [III] at Queule and Tolten and [II] at Gorbea and Valdivia. After GUC.
IDC Error ellipse: s-maj=33.5km s-min=18.6km az=72.0.
GUC Error ellipse: s-maj=2.0km s-min=6.5km az=-1.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**10 01 18 17.2–.10**	**38.59N**	**142.10E**	**50–1**	**3.5**	**¶600636218**

JMA Event type fe.

(244) Taiwan

ISC	**VI**	**10 01 25 22.3–.34**	**23.57N–.02**	**121.69E–.02**	**35–1**	**4.7b,4.0s**	**458**	**0-168**
NIED	VI	10 01 25 00	23.60N	121.60E	35	4.7W,4.0s		**¶16581508**
JMA	VI	10 01 25 20.8–.10	23.58N	121.58E	39–3	4.7,4.0s		
MOS	VI	10 01 25 20.1–.89	23.57N	121.71E	35	4.9b,4.0s		
ISCJB	VI	10 01 25 21.7–.16	23.58N–.01	121.67E–.01	46–1	4.7b,4.0s		
NEIC	VI	10 01 25 21.5–.58	23.55N	121.61E	31–4	5.2L,4.8b		
TAP	VI	10 01 25 22.1	23.59N	121.59E	35–0	5.1L,4.8b		
BJI	VI	10 01 25 22.2	23.72N	121.51E	27	4.7b,4.7L		
IDC	VI	10 01 25 23.2–2.7	23.63N	121.76E	49–25	4.4,4.3		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ47.00000°,λ63.00000°. NP2: ϕ_s225.00000°,δ49.00000°,λ116.00000°. $M_0$1.21000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=5.2km az=119.2.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=150.2.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=122.0. Felt at Changhua, Hualien, Taichung and Taipei. Recorded [4 TAP] in Hualien; [3 TAP] in Taitung; [2 TAP] in Changhua, Chiayi, Nantou, Yilan and Yunlin; [1 TAP] in Miaoli. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}4.17 $M_{\theta\theta}$-1.29 $M_{\phi\phi}$-2.89 $M_{r\theta}$-0.85 $M_{\theta\phi}$-3.86 $M_{\phi r}$4.45 Best double couple: NP1:ϕ_s9.00000°,δ68.00000°,λ58.00000°. NP2:ϕ_s248.00000°,δ39.00000° ,λ143.00000°. Principal axes: T 7.1100,Plg55.0000°,Azm238.0000°; N -0.2000,Plg30.0000° ,Azm23.0000°; P -6.9000,Plg17.0000°,Azm122.0000° $M_0$7.00000×10^{15}
TAP B.
IDC Error ellipse: s-maj=13.4km s-min=10.8km az=55.0.

(71) Near coast of Guatemala

ISC	**VI**	**10 04 44 38.7–1.3**	**13.89N–.08**	**91.54W–.06**	**49–18**	**3.9b**	**56**	**2-51**
IDC	VI	10 04 44 34.9–11	13.17N	92.53W	0	4.3L,4.2		**¶16590029**
NEIC	VI	10 04 44 37.7–1.1	13.77N	91.52W	35	4.0b,4.0		
ISCJB	VI	10 04 44 38.5–.80	13.85N–.08	91.51W–.06	61–10	3.8b,4.0		
MEX	VI	10 04 44 40.6–.73	13.88N	91.77W	20	4.0,4.0		

ISC Event type fe.
IDC Error ellipse: s-maj=225.2km s-min=119.2km az=12.0.
NEIC Event type fe. Error ellipse: s-maj=21.9km s-min=10.1km az=207.0. Felt at Chimaltenango, Escuintla, Quetzaltenango and Retalhuleu.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=5.2km az=32.7.
MEX Error ellipse: s-maj=7.4km s-min=13.7km az=-1.0.

(122) Near coast of northern Chile

ISC	**VI**	**10 04 55 39.3–.53**	**26.26S–.03**	**70.66W–.05**	**19–2**	**4.8b,3.8s**	**659**	**1-174**
ISCJB	VI	10 04 55 38.3–.81	26.23S–.02	70.76W–.04	25–6	4.8b,3.9s		**¶16587357**
GUC	VI	10 04 55 39.3–.80	26.27S	70.66W	39–4	5.0L,3.9s		
NEIC	VI	10 04 55 39.0	26.27S	70.66W	39	4.8b,4.5W		
MOS	VI	10 04 55 41.8–1.1	26.04S	70.56W	40	4.9b,4.5W		
IDC	VI	10 04 55 44.4–3.0	26.22S	70.60W	58–25	4.5,4.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.4km az=177.2.
GUC Error ellipse: s-maj=1.7km s-min=12.7km az=-1.0.
NEIC Event type fe. Felt [IV] at Copiapo and Tierra Amarilla, [III] at Caldera and Chanaral and [II] at Diego de Almagro and Los Loros. After GUC. Moment Tensor Solution. s20 Moment tensor: Scale 10^{15}Nm; M_{rr}0.73 $M_{\theta\theta}$-5.43 $M_{\phi\phi}$4.70 $M_{r\theta}$3.22 $M_{\theta\phi}$-0.99 $M_{\phi r}$-5.38 Best double couple: NP1:ϕ_s227.00000°,δ42.00000°,λ8.00000°. NP2:ϕ_s131.00000°,δ85.00000°,λ132.00000°. Principal axes: T 8.9500,Plg36.0000°,Azm77.0000°; N -1.9800,Plg42.0000°,Azm307.0000° ; P -6.9700,Plg28.0000°,Azm189.0000° $M_0$8.10000×10^{15}
MOS Error ellipse: s-maj=14.3km s-min=7.9km az=106.1.
IDC Error ellipse: s-maj=21.0km s-min=14.9km az=47.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 08 18 32.7–.77**	**36.43N–.04**	**140.81E–.04**	**20–3**	**4.4b,3.4s**	**149**	**0-153**
NIED	VI	10 08 18 00	36.50N	141.00E	5	4.2W,3.4s		**¶16581518**
IDC	VI	10 08 18 28.0–.57	36.30N	141.04E	0	4.1,4.1		
JMA	VI	10 08 18 29.6–.10	36.48N	140.99E	19–1	4.4,4.1		
ISCJB	VI	10 08 18 31.9–.75	36.47N–.04	140.79E–.04	21–4	4.4b,3.5s		
NEIC	VI	10 08 18 31.2–3.3	36.33N	140.86E	11–21	4.6b,3.5s		
MOS	VI	10 08 18 32.4–1.6	36.27N	140.78E	33	4.7b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ54.00000°,λ-16.00000°. NP2:ϕ_s125.00000°,δ77.00000°,λ-143.00000°. $M_0$2.25000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=14.2km az=104.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=142.4.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=7.2km az=122.0. Recorded [3 JMA] in Ibaraki.
MOS Error ellipse: s-maj=9.6km s-min=7.5km az=97.8.

(573) Tanzania

ISC	**VI**	**10 08 28 13.5–.41**	**6.99S–.05**	**39.55E–.06**	**10**	**4.6b,4.0s**	**65**	**4-143**
ISCJB	VI	10 08 28 11.6–.32	7.02S–.04	39.60E–.05	10	4.4b,4.0s		**¶16583948**
IDC	VI	10 08 28 11.9–.62	6.97S	39.73E	0	4.4,4.4L		
BJI	VI	10 08 28 12.9	7.10S	39.60E	10	5.0b,4.8b		
NEIC	VI	10 08 28 13.4–.35	7.08S	39.64E	10	4.8b,4.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.9km az=43.4.
IDC Error ellipse: s-maj=20.6km s-min=14.6km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=10.9km s-min=7.0km az=103.0. Felt [III] at Dar es Salaam. Also felt at Mkuranga and Zanzibar.

(58) Near coast of Guerrero

ISC	**VI**	**10 13 13 23.6–1.4**	**16.30N–.04**	**98.47W–.03**	**2–7**	**4.8b,3.9s**	**582**	**0-135**
MEX	VI	10 13 13 22.7–.89	16.02N	98.61W	4	4.9,3.9s		**¶16590030**
ISCJB	VI	10 13 13 24.8–1.1	16.43N–.03	98.28W–.02	15–6	4.7b,3.9s		
NEIC	VI	10 13 13 24.0	16.00N	98.54W	10	4.9,4.8b		
IDC	VI	10 13 13 25.1–1.3	16.68N	98.35W	0	4.5,4.3b		

ISC Event type fe.
MEX Error ellipse: s-maj=5.8km s-min=3.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.1km az=14.6.
NEIC Event type fe. Felt at Oaxaca. After MEX.
IDC Error ellipse: s-maj=28.5km s-min=16.5km az=8.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 13 39 45.1–.51**	**38.60N–.04**	**141.90E–.04**	**54–3**	**4.7b,4.5s**	**317**	**0-146**
NIED	VI	10 13 39 00	38.60N	141.90E	50	4.5W,4.5s		**¶603244135**
BJI	VI	10 13 39 40.2	38.54N	142.15E	47	4.8b,4.8b		
JMA	VI	10 13 39 44.8–.10	38.62N	141.90E	48–1	4.4,4.8b		
ISCJB	VI	10 13 39 44.1–.38	38.61N–.03	141.87E–.04	56–2	4.7b,4.4s		
IDC	VI	10 13 39 45.6–1.8	38.63N	141.85E	56–16	4.4,4.3		
NEIC	VI	10 13 39 45.3–.59	38.67N	141.77E	52–5	4.7b,4.3		
MOS	VI	10 13 39 46.3–.90	38.88N	141.71E	61	5.0b,4.4s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ92.00000°. $M_0$6.22000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=39.3.
IDC Error ellipse: s-maj=13.2km s-min=11.0km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=130.0. Felt at Ichinoseki. Recorded [3 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=106.1.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 13 42 07.0–.82**	**37.38N–.04**	**141.56E–.05**	**16–4**	**4.4b,4.1s**	**92**	**1-95**
NIED	VI	10 13 42 00	37.40N	141.60E	5	4.6W,4.1s		**¶16593357**
IDC	VI	10 13 42 04.2–.64	37.39N	141.58E	0	4.4,4.3		
JMA	VI	10 13 42 05.5–.20	37.38N	141.59E	19–2	4.7,4.3		
NEIC	VI	10 13 42 08.1–2.6	37.36N	141.63E	28–19	4.3b,4.3		
MOS	VI	10 13 42 08.3–1.3	37.43N	141.52E	35	4.8b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ28.00000°,λ-54.00000°. NP2:ϕ_s195.00000°,δ67.00000°,λ-107.00000°. $M_0$8.99000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=13.3km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=8.7km az=110.0. Recorded [1 JMA] in Fukushima, Miyagi and Yamagata.
MOS Error ellipse: s-maj=9.7km s-min=6.2km az=94.1.

(123) Northern Chile

ISC	**VI**	**10 14 45 25.9–.33**	**23.94S–.03**	**69.45W–.04**	**81–2**	**4.9b**	**563**	**1-173**
SCB	VI	10 14 44 55.3–.34	25.53S	70.81W	42	4.6L		**¶16587366**
MOS	VI	10 14 45 21.7–1.0	23.71S	69.28W	46	5.3b		
SJA	VI	10 14 45 21.3–.35	24.03S	69.58W	263–50	4.6W,4.2L		
GUC	VI	10 14 45 25.8–.42	23.98S	69.38W	46–5	5.1L,4.2L		
NEIC	VI	10 14 45 25.0	23.98S	69.37W	46	5.0b,4.2L		
ISCJB	VI	10 14 45 25.8–.30	23.89S–.03	69.49W–.03	90–2	4.8b,4.2L		
BJI	VI	10 14 45 26.8	23.90S	69.40W	79	5.2b,5.2s		
IDC	VI	10 14 45 26.3–.37	23.98S	69.37W	80–2	4.7,4.6		

ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=9.2km s-min=5.3km az=65.0.
MOS Error ellipse: s-maj=15.6km s-min=7.3km az=113.7.
SJA Error ellipse: s-maj=5.6km s-min=31.3km az=-1.0.
GUC Error ellipse: s-maj=1.9km s-min=2.9km az=-1.0.
NEIC Event type fe. Felt [III] at Mejillones and [II] at Antofagasta, Calama, Ollague, Peine, San Pedro de Atacama and Talabre. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.1km az=157.8.
IDC Error ellipse: s-maj=13.6km s-min=7.7km az=101.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**10 15 35 07.6–.10**	**37.28N**	**141.25E**	**37–1**	**3.6**		
NIED	VI	10 15 35 00	37.30N	141.30E	44	3.5W		**¶600636704**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ35.00000°,λ-83.00000°. NP2:ϕ_s230.00000°,δ55.00000°,λ-95.00000°. $M_0$2.22000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 15 40 55.6–1.0**	**36.93N–.03**	**140.70E–.04**	**10–7**	**3.7b**	**28**	**0-61**
NIED	VI	10 15 40 00	36.90N	140.70E	8	3.6W		**¶600636710**
ISCJB	VI	10 15 40 54.6–.62	36.92N–.03	140.80E–.05	17–5	3.6b		
JMA	VI	10 15 40 55.4	36.94N	140.68E	11–1	3.9		
IDC	VI	10 15 40 58.0–4.9	36.92N	140.79E	34–38	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s304.00000°,δ43.00000°,λ-120.00000°. NP2:ϕ_s163.00000°,δ54.00000°,λ-65.00000°. $M_0$2.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=17.2.
JMA Event type fe.
IDC Error ellipse: s-maj=31.9km s-min=18.8km az=78.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 17 34 25.3–1.2**	**38.80N–.04**	**141.75E–.09**	**71–8**		**25**	**0-59**
IDC	VI	10 17 34 12.5–3.1	39.12N	142.76E	0	3.5,3.4b		**¶17205723**
ISCJB	VI	10 17 34 24.8–.83	38.80N–.04	141.72E–.10	77–6	3.4b,3.4b		

JMA VI 10 17 34 25.8 38.81N 141.67E 72–1 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=39.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.6km az=9.0.
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**VI**	**10 18 33 23.6–.40**	**36.82N–.04**	**142.15E–.04**	**28–2**	**4.7b,4.3s**	**498**	**1-149**
NIED	VI	10 18 33 00	36.80N	142.30E	20	4.7W,4.3s		**¶16587561**
IDC	VI	10 18 33 19.2–.44	36.69N	142.21E	0	4.6,4.5		
ISCJB	VI	10 18 33 20.5–.70	36.72N–.02	142.17E–.02	17–4	4.7b,4.2s		
JMA	VI	10 18 33 20.9–.30	36.74N	142.25E	25	4.7,4.2s		
BJI	VI	10 18 33 22.1	36.75N	142.09E	31	4.9b,4.8b		
NEIC	VI	10 18 33 22.8–1.2	36.70N	142.14E	23–9	4.8b,4.8b		
MOS	VI	10 18 33 23.3–.90	37.04N	142.11E	25	5.0b,4.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ16.00000°,λ85.00000°. NP2:ϕ_s29.00000°,δ74.00000°,λ91.00000°. $M_0$1.21000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=10.0km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=154.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=141.0. Recorded [1 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=109.7.

(162) South Island

ISC	**VI**	**10 19 32 00.8–1.2**	**44.17S–.04**	**168.42E–.03**	**11–8**	**4.3b,3.2s**	**140**	**0-152**
ISCJB	VI	10 19 31 59.7–.63	44.07S–.02	168.30E–.04	12–4	4.4b,3.1s		**¶16590034**
IDC	VI	10 19 32 00.7–1.0	43.96S	168.36E	0	4.3L,4.0		
WEL	VI	10 19 32 01.4–.16	44.19S	168.38E	5	4.6L,4.0		
NEIC	VI	10 19 32 01.1	44.18S	168.36E	5	4.9b,4.6L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=35.9.
IDC Error ellipse: s-maj=48.8km s-min=19.2km az=1.0.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.2km az=90.0. Felt from Auckland to Otago, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Fox Glacier. After WEL.

(543) Germany

ISC	**VI**	**10 19 54 01.0–.76**	**51.52N–.02**	**6.41E–.02**	**0**		**129**	**0-6**
CSEM	VI	10 19 54 01.9–.23	51.52N	6.42E	1	2.7L		**¶16617335**
LDG	VI	10 19 54 01.7–.23	51.60N	6.51E	1	3.0,2.8L		
ISCJB	VI	10 19 54 01.0–.43	51.51N–.02	6.38E–.04	0	3.0,2.8L		
BNS	VI	10 19 54 02.9–1.1	51.53N	6.53E	1	1.8L,2.8L		
BGR	VI	10 19 54 03.3–.35	51.51N	6.51E	1	2.2L,2.8L		
BUG	VI	10 19 54 03.2	51.47N	6.58E	1	1.8L,2.8L		
STR	VI	10 19 54 09.3–.65	51.25N	7.95E	10	2.0L,2.8L		

ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=3.2km az=127.0.
LDG Event type sr. Error ellipse: s-maj=3.9km s-min=2.7km az=2.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=2.5km az=34.2.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=2.2km az=119.0.
GDNRW Event type fi.
STR Event type ke.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 21 22 31.0–2.0**	**36.54N–.05**	**140.95E–.08**	**4–11**	**3.6b,3.1s**	**22**	**0-147**
NIED	VI	10 21 22 00	36.50N	140.90E	5	3.9W,3.1s		**¶16596654**
JMA	VI	10 21 22 31.1	36.52N	140.94E	16–1	3.8,3.1s		
IDC	VI	10 21 22 31.6–.79	36.14N	140.72E	0	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ34.00000°,λ-47.00000°. NP2:ϕ_s154.00000°,δ66.00000°,λ-114.00000°. $M_0$6.91000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=14.2km az=17.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 21 23 47.4–1.5**	**37.43N–.04**	**141.56E–.07**	**30–10**	**3.7b**	**36**	**1-146**
NIED	VI	10 21 23 00	37.40N	141.50E	50	3.9W		**¶17205732**
ISCJB	VI	10 21 23 48.0–.77	37.38N–.03	141.48E–.08	50–6	3.7b		
JMA	VI	10 21 23 49.2–.10	37.41N	141.40E	46–1	3.9		
IDC	VI	10 21 23 52.1–2.5	37.35N	141.46E	74–23	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ14.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ77.00000°,λ94.00000°. $M_0$7.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.4km az=11.4.
JMA Event type fe.
IDC Error ellipse: s-maj=20.6km s-min=12.7km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 21 40 09.7–1.3**	**39.09N–.05**	**142.4E–.10**	**22–8**	**3.6b**	**25**	**1-63**
NIED	VI	10 21 40 00	39.10N	142.50E	32	3.6W		**¶600636937**
IDC	VI	10 21 40 06.4–1.0	38.95N	142.20E	0	3.7,3.6b		
ISCJB	VI	10 21 40 09.0–1.2	39.07N–.04	142.47E–.07	30–7	3.6b,3.6b		
JMA	VI	10 21 40 10.0–.20	39.11N	142.43E	23–2	3.9,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ17.00000°,λ-117.00000°. NP2:ϕ_s180.00000°,δ75.00000°,λ-82.00000°. $M_0$2.62000×10^{14}
IDC Error ellipse: s-maj=23.3km s-min=15.9km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=7.1km az=15.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 22 35 54.1–.27**	**38.31N–.03**	**142.23E–.03**	**29–1**	**5.1b,4.5s**	**1118**	**1-151**
NIED	VI	10 22 35 00	38.40N	142.20E	35	4.9W,4.5s		**¶16589792**
JMA	VI	10 22 35 53.9–.10	38.36N	142.22E	36–1	5.0,4.5s		
ISCJB	VI	10 22 35 54.1–.29	38.31N–.02	142.16E–.02	37–2	5.1b,4.4s		
MOS	VI	10 22 35 54.5–.73	38.51N	142.12E	34	5.3b,4.5s		
BJI	VI	10 22 35 54.1	38.21N	142.08E	45	5.0b,4.9b		
NEIC	VI	10 22 35 55.1–.50	38.32N	142.16E	32–3	5.1b,4.9b		
GCMT	VI	10 22 35 55.1–.20	38.42N	142.26E	30–0	5.0W,4.9b		
IDC	VI	10 22 35 57.3–2.1	38.33N	142.17E	52–18	4.9,4.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ42.00000°,λ-95.00000°. NP2:ϕ_s287.00000°,δ48.00000°,λ-86.00000°. $M_0$2.70000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=149.8.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=101.8.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=146.0. Felt at Ichinoseki. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c93; s93,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.11±.12 $M_{\theta\theta}$3.58±.08; $M_{\phi\phi}$0.52±.08; $M_{r\theta}$0.21±.10; $M_{\theta\phi}$-0.22±.06; $M_{\phi r}$-0.11±.11; Best double couple: NP1:ϕ_s275.00000°,δ47.00000°,λ-88.00000°. NP2:ϕ_s93.00000°,δ43.00000°,λ-92.00000°. Principal axes: T 3.6020,Plg2.0000°,Azm4.0000°; N 0.5100,Plg1.0000°,Azm94.0000° ; P -4.1180,Plg88.0000°,Azm220.0000° $M_0$3.86000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=9.4km az=118.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**10 23 20 46.1–1.1**	**37.26N–.04**	**141.34E–.05**	**34–2**	**3.8b**	**38**	**0-147**
NIED	VI	10 23 20 00	37.20N	141.40E	23	3.7W		**¶16713622**
ISCJB	VI	10 23 20 42.4–1.1	37.21N–.03	141.56E–.06	16–7	3.9b,3.4s		
IDC	VI	10 23 20 42.1–.95	37.25N	141.21E	0	4.5L,4.0		
JMA	VI	10 23 20 46.0–.10	37.24N	141.31E	34–1	3.9,4.0		
NEIC	VI	10 23 20 46.3–.61	37.17N	141.51E	35	4.2b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ44.00000°,λ-107.00000°. NP2:ϕ_s74.00000°,δ48.00000°,λ-74.00000°. $M_0$3.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.0km az=20.2.
IDC Error ellipse: s-maj=32.6km s-min=18.9km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.4km s-min=12.8km az=141.0. Recorded [2 JMA] in Fukushima.

(45) California-Baja California border region

ISC	**VI**	**10 23 27 31.3–.80**	**32.64N–.02**	**115.71W–.02**	**17–5**		**66**	**0-4**
ISCJB	VI	10 23 27 31.9–.30	32.67N–.02	115.72W–.02	18–4			**¶16884577**
ECX	VI	10 23 27 32.9–.59	32.63N	115.72W	3	3.3L,3.0		
MEX	VI	10 23 27 32.7–1.5	32.81N	115.67W	20–112	3.6,3.0		
NEIC	VI	10 23 27 33.0	32.63N	115.73W	3	3.3L,3.3L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.3km az=8.4.
ECX Error ellipse: s-maj=1.0km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=99.4km s-min=69.8km az=-1.0.
NEIC Event type fe. Felt at El Centro, California. After ECX.

(224) Hokkaido region

JMA	**VI**	**11 00 02 36.4**	**43.80N**	**141.59E**	**8–2**	**2.0**		**¶600637003**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**11 02 08 29.9–1.8**	**38.36N–.05**	**142.25E–.06**	**9–10**	**4.1b,3.0s**	**35**	**1-73**
NIED	VI	11 02 08 00	38.40N	142.30E	26	3.7W,3.0s		**¶16685951**
IDC	VI	11 02 08 28.4–.99	38.33N	142.48E	0	3.9,3.8b		
JMA	VI	11 02 08 32.4–.10	38.44N	142.23E	29–1	4.0,3.8b		
NEIC	VI	11 02 08 33.7–1.0	38.35N	142.44E	40–9	4.0b,3.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ26.00000°,λ-11.00000°. NP2:ϕ_s269.00000°,δ85.00000°,λ-115.00000°. $M_0$4.10000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=19.0km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.2km s-min=7.1km az=117.0. Recorded [2 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**VI**	**11 04 50 02.3–1.7**	**36.88N–.06**	**141.1E–.10**	**41–11**	**3.5b**	**16**	**0-57**
NIED	VI	11 04 50 00	36.90N	141.10E	26	3.5W		**¶600637205**
ISCJB	VI	11 04 50 01.7–1.2	36.87N–.06	141.1E–.10	50–7	3.4b		
JMA	VI	11 04 50 02.7–.10	36.88N	141.06E	50–1	3.7		
IDC	VI	11 04 50 04.4–7.7	36.99N	141.06E	58–60	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ61.00000°,λ151.00000°. NP2:ϕ_s54.00000°,δ65.00000°,λ33.00000°. $M_0$1.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=8.3km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=55.5km s-min=25.7km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**11 06 18 54.0–1.5**	**35.95N–.04**	**141.04E–.07**	**11–9**	**3.9b,3.0s**	**40**	**0-147**
NIED	VI	11 06 18 00	35.90N	141.00E	8	3.9W,3.0s		**¶16682676**
IDC	VI	11 06 18 52.4–.65	35.89N	140.99E	0	4.3L,4.1		
ISCJB	VI	11 06 18 53.7–.83	35.95N–.03	141.10E–.06	21–5	4.0b,3.1s		
JMA	VI	11 06 18 54.6–.10	35.92N	141.02E	19–2	4.3,3.1s		
NEIC	VI	11 06 18 54.4–3.0	35.94N	140.98E	12–19	4.5b,3.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ48.00000°,λ-58.00000°. NP2:ϕ_s182.00000°,δ51.00000°,λ-120.00000°. $M_0$9.29000×10^{14}
IDC Error ellipse: s-maj=20.4km s-min=16.4km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.1km az=0.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.5km az=96.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC	**VI**	**11 06 34 12.7–1.2**	**36.97N–.04**	**140.51E–.03**	**3–8**	**4.2b**	**48**	**0-147**
NIED	VI	11 06 34 00	36.90N	140.70E	5	4.0W		**¶600637277**
ISCJB	VI	11 06 34 12.9–.58	36.93N–.03	140.76E–.05	18–3	4.2b		
JMA	VI	11 06 34 13.5	36.95N	140.66E	5–1	4.2		
NEIC	VI	11 06 34 17.5–.39	36.99N	140.58E	35	4.6b		
IDC	VI	11 06 34 19.4–1.7	36.92N	140.60E	56–15	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ42.00000°,λ-76.00000°. NP2:ϕ_s172.00000°,δ50.00000°,λ-102.00000°. $M_0$1.19000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=25.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=7.6km az=115.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=78.0.

(662) Sakhalin Island

ISC	**VI**	**11 07 19 39.2–1.3**	**51.72N–.03**	**142.84E–.05**	**5–9**	**3.6b**	**30**	**1-80**
SKHL	VI	11 07 19 36.3–.70	51.79N	142.84E	10	4.3s,4.2b		**¶17205762**
IDC	VI	11 07 19 39.9–.94	51.62N	142.79E	0	3.8,3.6		
MOS	VI	11 07 19 39.8–2.4	51.78N	142.88E	12	4.1b,3.6		

ISC Event type ke.
SKHL Event type fe. Felt (II) at Nysh.
IDC Error ellipse: s-maj=25.1km s-min=20.1km az=158.0.
MOS Event type fe. Error ellipse: s-maj=21.9km s-min=8.8km az=87.2. Felt (II) at Nysh. Moment Tensor Solution.

(229) Off east coast of Honshu

ISC	**VI**	**11 09 05 00.3–.63**	**37.50N–.04**	**142.91E–.04**	**25–3**	**4.6b,3.9s**	**287**	**2-145**
NIED	VI	11 09 04 00	37.60N	142.80E	11	4.4W,3.9s		**¶16591619**
BJI	VI	11 09 04 54.8	37.49N	142.95E	10	4.8b,4.6b		
ISCJB	VI	11 09 04 57.9–.98	37.57N–.03	142.73E–.03	15–6	4.6b,3.9s		
JMA	VI	11 09 04 57.0–.40	37.60N	142.76E	7–5	4.5,3.9s		
MOS	VI	11 09 05 00.8–1.2	37.67N	142.67E	33	4.8b,3.9s		
IDC	VI	11 09 05 02.5–2.3	37.52N	142.69E	38–19	4.4,4.4		
NEIC	VI	11 09 05 02.5–.47	37.57N	142.71E	36–4	4.6b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ39.00000°,λ-56.00000°. NP2:ϕ_s18.00000°,δ59.00000°,λ-114.00000°. $M_0$4.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.8km az=104.3.
IDC Error ellipse: s-maj=14.0km s-min=10.9km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=138.0. Recorded [1 JMA] in Miyagi.

(259) Mindanao

ISC	**VI**	**11 09 34 02.7–.97**	**9.34N–.03**	**124.01E–.04**	**31–7**	**4.1b,3.6s**	**58**	**0-120**
MAN	VI	11 09 34 02	9.41N	124.01E	24	4.5b,3.4L		**¶17205768**
ISCJB	VI	11 09 34 03.1–.33	9.39N–.02	124.02E–.03	45–4	4.0b,3.5s		
IDC	VI	11 09 34 13.5–2.3	9.32N	124.06E	129–21	4.1,3.8		

ISC Event type fe.
MAN Event type fe. INTENSITY III - LOBOC BOHOL; INTENSITY II - TAGBILARAN CITY; DUMAGUETE CITY; CORTES BOHOL; INTENSITY I - MAMBAJAO CAMIGUIN; MANDAUE CITY.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.7km az=4.8.
IDC Error ellipse: s-maj=26.1km s-min=10.9km az=64.0.

(249) Luzon

ISC	**VI**	**11 11 10 53.0–.60**	**19.27N–.03**	**121.46E–.09**	**46**	**3.6b,3.3s**	**38**	**1-115**
IDC	VI	11 11 10 45.1–.82	18.97N	121.42E	0	4.0,3.8L		**¶16704928**
NEIC	VI	11 11 10 47.2–.42	18.97N	121.31E	15	3.8b,3.8L		
MAN	VI	11 11 10 49	19.17N	121.26E	3	5.1b,4.2s		
ISCJB	VI	11 11 10 51.4–.35	19.27N–.02	121.29E–.09	46	3.7b,3.3s		

ISC Event type fe.
NEIC Event type fe. Felt [II PIVS] at Calayan.
MAN Event type fe. INTENSITY II - CALAYAN CAGAYAN.
ISCJB Event type fe.

(460) Wyoming

ISC	**VI**	**11 18 02 29.5–.92**	**43.73N–.06**	**105.22W–.07**	**0**	**3.8b**	**32**	**1-82**
ISCJB	VI	11 18 02 28.5–.43	43.72N–.04	105.19W–.06	0	4.0b		**¶17205787**
IDC	VI	11 18 02 29.1–1.9	43.63N	105.40W	0	3.9,3.9b		
NEIC	VI	11 18 02 30.2–.40	43.70N	105.20W	0	3.3L,3.9b		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.7km s-min=5.4km az=147.6.
IDC Error ellipse: s-maj=55.3km s-min=7.3km az=149.0.
NEIC Event type fm. Error ellipse: s-maj=6.8km s-min=5.2km az=146.0. 72 km [45 miles] SSE of Gillette. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

ISC	**VI**	**11 18 41 12.3–.58**	**40.79N–.04**	**142.62E–.05**	**48–4**	**4.3b,3.2s**	**93**	**1-87**
NIED	VI	11 18 41 00	40.80N	142.70E	35	4.1W,3.2s		**¶16720900**
JMA	VI	11 18 41 09.8–.20	40.76N	142.66E	25	4.0,3.2s		
ISCJB	VI	11 18 41 10.9–.53	40.79N–.04	142.62E–.06	53–4	4.2b,3.2s		
MOS	VI	11 18 41 10.2–.97	40.77N	142.62E	49	4.4b,3.2s		

IDC VI 11 18 41 12.8–.71 40.77N 142.53E 52–4 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ18.00000°,λ96.00000°. NP2:ϕ_s14.00000°,δ72.00000°,λ88.00000°. $M_0$1.38000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.4km az=33.1.
MOS Error ellipse: s-maj=9.8km s-min=6.4km az=101.7.
IDC Error ellipse: s-maj=17.2km s-min=13.6km az=95.0.

(228) Near east coast of eastern Honshu

ISC VI 11 20 08 57.4–.50 37.09N–.04 141.36E–.04 12–2 4.4b,3.3s 172 0-151
NIED VI 11 20 08 00 37.20N 141.20E 11 4.2W,3.3s **¶16591634**
BJI VI 11 20 08 55.7 36.89N 141.32E 11 4.7b,4.5b
ISCJB VI 11 20 08 55.7–.81 37.15N–.03 141.36E–.03 11–4 4.4b,3.3s
IDC VI 11 20 08 58.4–.55 37.18N 141.10E 18–2 4.5L,4.2
NEIC VI 11 20 08 58.7–.81 37.09N 141.33E 21–5 4.5b,4.2
JMA VI 11 20 08 58.4–.10 37.22N 141.21E 21–1 4.5,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ23.00000°,λ-81.00000°. NP2:ϕ_s218.00000°,δ67.00000°,λ-94.00000°. $M_0$2.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.9km az=148.6.
IDC Error ellipse: s-maj=15.3km s-min=13.2km az=83.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.5km az=146.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe.

(277) Jawa

ISC VI 11 20 23 12.1–.35 6.76S–.05 106.33E–.05 35 4.5b,3.5s 199 0-156
IDC VI 11 20 23 06.4–.45 6.59S 106.37E 0 4.4,4.3 **¶16591635**
NEIC VI 11 20 23 08.5–.52 6.62S 106.34E 14–3 4.7b,4.3
ISCJB VI 11 20 23 09.9–.24 6.72S–.04 106.33E–.03 33 4.5b,3.5s
MOS VI 11 20 23 10.4–1.3 6.47S 106.51E 33 4.9b,3.5s
DJA VI 11 20 23 10.1–.30 7S–4.0 106E–3.0 10 5.7b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [II] at Banten, Cisarua, Lebak and Sukabumi. Also felt at Curug and Jakarta.
ISCJB Event type fe.

(227) Eastern Honshu

ISC VI 11 21 16 48.6–.90 37.09N–.03 140.72E–.04 11–6 3.5b 23 0-61
IDC VI 11 21 16 47.2–1.3 37.00N 140.89E 0 3.8,3.6 **¶17205796**
ISCJB VI 11 21 16 48.4–1.8 37.07N–.03 140.78E–.05 15–13 3.6b,3.6
JMA VI 11 21 16 48.6 37.10N 140.69E 9–1 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=20.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=25.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ49.00000°,λ-107.00000°. NP2:ϕ_s219.00000°,δ43.00000°,λ-71.00000°. Principal axes: T Plg3.0000°,Azm116.0000°; N Plg13.0000°,Azm25.0000°; P Plg77.0000° ,Azm219.0000°

(116) Central Peru

NEIC VI 11 22 15 59.0 8.86S 75.99W 24 4.2b,4.1L
¶602918605
NEIC Event type fe. Felt [III] at Aucayacu. After ARE.

(76) Off coast of central America

ISC VI 11 22 23 33.1–.53 12.63N–.04 88.49W–.04 74–4 4.7b 650 1-149
IDC VI 11 22 23 31.2–1.7 12.81N 88.08W 54–14 4.4,4.4 **¶16591638**
CASC VI 11 22 23 31.7–2.1 12.51N 88.55W 38–253 4.7b,4.5L
ISCJB VI 11 22 23 32.0–.28 12.63N–.03 88.46W–.02 83–2 4.7b,4.5L
NEIC VI 11 22 23 35.4–.53 12.72N 88.40W 94–5 5.0,4.7b
ISC Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=10.7km az=58.0.
CASC Error ellipse: s-maj=10.3km s-min=6.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.4km az=37.3.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=216.0. Felt [III] at San Salvador. Also felt at Antiguo Cuscatlan and Ozatlan.

(274) Southern Sumatera

ISC VI 11 23 17 47.2–.65 3.56S–.08 101.30E–.09 50 4.4b 30 1-145
IDC VI 11 23 17 40.9–1.7 3.50S 101.30E 0 4.2,4.1 **¶16684516**
ISCJB VI 11 23 17 45.4–.52 3.59S–.06 101.26E–.08 50 4.3b,4.1
NEIC VI 11 23 17 46.0–.39 3.49S 101.35E 35 4.3b,4.1
DJA VI 11 23 17 49.0–.70 3S–5.0 101E–5.0 18–9 4.4b,4.2
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Ketaun.

(228) Near east coast of eastern Honshu

ISC VI 12 00 37 58.2–.62 35.76N–.03 140.76E–.03 14–3 4.6b,3.8s 228 0-148
NIED VI 12 00 37 00 35.80N 141.00E 8 4.3W,3.8s **¶603244137**
IDC VI 12 00 37 54.2–.52 35.64N 140.86E 0 4.3,4.2
ISCJB VI 12 00 37 56.1–.55 35.73N–.02 140.68E–.03 8–3 4.6b,3.9s
JMA VI 12 00 37 56.2–.10 35.79N 140.88E 11–1 4.4,3.9s
BJI VI 12 00 37 56.7 35.67N 141.03E 33 4.8b,4.6b
NEIC VI 12 00 37 59.7–1.8 35.75N 140.61E 21–13 4.7b,4.6b
MOS VI 12 00 38 00.5–1.4 36.00N 140.63E 33 4.5b,4.6b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ55.00000°,λ-151.00000°. NP2:ϕ_s202.00000°,δ66.00000°,λ-38.00000°. $M_0$3.52000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.4km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=162.1.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.6km az=134.0. Felt at Chiba, Kashiwa and Narita. Recorded [3 JMA] in Chiba and Ibaraki.
MOS Error ellipse: s-maj=8.0km s-min=5.7km az=105.8.

(162) South Island

ISC VI 12 02 28 18.8–1.2 44.31S–.03 168.19E–.04 7–8 4.0b 105 0-152
ISCJB VI 12 02 28 17.5–.77 44.22S–.03 168.14E–.05 10–5 4.2b,3.3s **¶16591644**
NEIC VI 12 02 28 18.5 44.31S 168.16E 5 5.2b,4.8L
WEL VI 12 02 28 18.6–.10 44.32S 168.17E 5 4.8L,4.8L
IDC VI 12 02 28 18.8–1.9 44.29S 168.26E 0 4.3L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.5km az=31.4.
NEIC Event type fe. Felt in western Otago. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Auckland to Otago, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=78.6km s-min=18.3km az=177.0.

(160) Off east coast of North Island

ISC VI 12 03 17 41.0–1.3 37.46S–.08 178.25E–.05 10 43 0-150
IDC VI 12 03 17 37.3–3.5 37.53S 178.68E 0 3.9,3.6 **¶16591647**
ISCJB VI 12 03 17 40.5–.92 37.42S–.05 178.23E–.06 10 3.4b,3.6
WEL VI 12 03 17 41.5–.63 37.46S 178.21E 5 3.7L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=90.2km s-min=39.1km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=40.8.
WEL Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=0.0. Felt in the Gisborne region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC VI 12 03 51 10.6–2.0 37.84N–.05 142.00E–.08 15–11 28 1-58
NIED VI 12 03 51 00 37.90N 142.00E 56 3.6W **¶17205813**
IDC VI 12 03 51 07.4–2.0 37.72N 142.50E 0 3.6,3.6
ISCJB VI 12 03 51 10.7–1.2 37.85N–.04 142.00E–.07 25–7 3.5b,3.6
JMA VI 12 03 51 12.3–.10 37.89N 141.93E 41–2 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ35.00000°,λ28.00000°. NP2:ϕ_s88.00000°,δ74.00000°,λ121.00000°. $M_0$3.07000×10^{14}
IDC Error ellipse: s-maj=38.3km s-min=24.6km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.3km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC VI 12 08 09 46.1–.37 36.40N–.03 141.13E–.04 42–2 4.8b,3.8s 443 0-158
NIED VI 12 08 09 00 36.50N 141.20E 32 4.6W,3.8s **¶603244143**
BJI VI 12 08 09 42.7 36.33N 141.37E 44 4.7b,4.7b
ISCJB VI 12 08 09 45.7–.38 36.41N–.02 141.05E–.02 44–3 4.7b,3.8s
JMA VI 12 08 09 45.4–.10 36.41N 141.08E 47–1 4.6,3.8s
IDC VI 12 08 09 46.1–2.3 36.39N 141.12E 40–20 4.6,4.5L
NEIC VI 12 08 09 47.2–.42 36.41N 141.00E 46–3 4.9b,4.5L
MOS VI 12 08 09 47.4–.83 36.82N 141.02E 44 4.9b,4.5L
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ17.00000°,λ-103.00000°. NP2:ϕ_s215.00000°,δ74.00000°,λ-86.00000°. $M_0$7.98000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=154.6.
JMA Event type fe.
IDC Error ellipse: s-maj=14.6km s-min=10.0km az=93.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=145.0. Felt at Chiba. Recorded [3 JMA] in Ibaraki.
MOS Error ellipse: s-maj=6.4km s-min=4.7km az=104.9.

(228) Near east coast of eastern Honshu

ISC VI 12 08 27 46.2–1.2 36.87N–.05 140.56E–.04 7–9 3.6b 30 0-91
NIED VI 12 08 27 00 36.80N 140.60E 5 3.7W **¶600638106**
IDC VI 12 08 27 45.7–1.3 36.94N 140.55E 0 3.7,3.6
ISCJB VI 12 08 27 46.4–.49 36.84N–.03 140.61E–.04 18–4 3.5b,2.4s
JMA VI 12 08 27 46.9 36.85N 140.53E 7–1 3.6,2.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ25.00000°,λ-113.00000°. NP2:ϕ_s179.00000°,δ67.00000°,λ-80.00000°. $M_0$3.53000×10^{14}
IDC Error ellipse: s-maj=31.0km s-min=18.8km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ47.00000°,λ-89.00000°. NP2:ϕ_s180.00000°,δ43.00000°,λ-91.00000°. Principal axes: T Plg2.0000°,Azm91.0000°; N Plg1.0000°,Azm181.0000°; P Plg88.0000° ,Azm298.0000°

(76) Off coast of central America

ISC VI 12 10 17 56.4–.91 12.84N–.06 88.52W–.05 85–8 4.8b 803 2-157
IDC VI 12 10 17 51.6–.63 12.97N 88.31W 38–4 4.6,4.6 **¶16591656**
ISCJB VI 12 10 17 56.0–.21 12.77N–.03 88.54W–.02 100 4.7b,4.6
GCMT VI 12 10 17 57.0–.30 12.58N 88.96W 43–1 5.0W,4.6
NEIC VI 12 10 17 57.0–.52 12.79N 88.48W 91–4 4.8b,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=18.6km s-min=9.6km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.5km az=34.9.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c75; s54,c71; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.36±.15 $M_{\theta\theta}$-2.33±.10; $M_{\phi\phi}$-1.03±.12; $M_{r\theta}$0.77±.12; $M_{\theta\phi}$1.85±.09; $M_{\phi r}$-0.57±.11; Best double couple: NP1:ϕ_s126.00000°,δ53.00000° ,λ91.00000°. NP2:ϕ_s305.00000°,δ37.00000°,λ89.00000°. Principal axes: T 3.4880,Plg82.0000°,Azm39.0000°; N 0.2810,Plg0.0000°,Azm305.0000° ; P -3.7690,Plg8.0000°,Azm215.0000° $M_0$3.62900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=217.0. Felt [I] at San Salvador.

(228) Near east coast of eastern Honshu

ISC VI 12 12 57 55.8–.52 36.25N–.03 141.65E–.04 28–3 5.0b,4.3s 580 1-150
NIED VI 12 12 57 00 36.20N 141.80E 17 4.7W,4.3s **¶600638305**
NEIC VI 12 12 57 52.8–1.6 36.18N 141.58E 5–9 4.9b,4.3s
JMA VI 12 12 57 53.4–.30 36.24N 141.75E 29 4.9,4.3s
BJI VI 12 12 57 54.6 36.31N 141.56E 36 5.0b,4.9b
ISCJB VI 12 12 57 54.1–.66 36.20N–.02 141.59E–.02 24–4 4.9b,4.3s
IDC VI 12 12 57 55.8–3.3 36.20N 141.63E 27–22 4.7,4.7
MOS VI 12 12 57 56.5–.89 36.58N 141.52E 28 5.2b,4.3s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ35.00000°,λ8.00000°. NP2:ϕ_s17.00000°,δ85.00000°,λ125.00000°. $M_0$1.43000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=131.0. Felt at Akiruno and Tokyo. Recorded [2 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=143.1.
IDC Error ellipse: s-maj=13.1km s-min=10.4km az=110.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=109.1.

(228) Near east coast of eastern Honshu

ISC VI 12 13 33 59.2–.99 36.79N–.03 140.59E–.05 13–7 21 0-60
NIED VI 12 13 33 00 36.80N 140.50E 5 3.4W **¶17205826**
IDC VI 12 13 33 57.0–3.0 36.77N 140.70E 0 3.7,3.7
ISCJB VI 12 13 33 59.1–.57 36.76N–.03 140.64E–.05 19–5 3.8s,3.5b
JMA VI 12 13 33 59.9 36.79N 140.54E 8–1 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ32.00000°,λ-145.00000°. NP2:ϕ_s175.00000°,δ72.00000°,λ-63.00000°. $M_0$1.26000×10^{14}
IDC Error ellipse: s-maj=48.5km s-min=29.1km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=16.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ51.00000°,λ-73.00000°. NP2:ϕ_s328.00000°,δ42.00000°,λ-110.00000°. Principal axes: T Plg5.0000°,Azm252.0000°; N Plg13.0000°,Azm343.0000°; P Plg76.0000° ,Azm142.0000°

(228) Near east coast of eastern Honshu

ISC VI 12 15 30 21.8–1.3 38.19N–.04 141.78E–.09 50–11 3.4b 35 0-62
NIED VI 12 15 30 00 38.20N 141.70E 47 3.4W **¶17205831**
ISCJB VI 12 15 30 21.1–.70 38.17N–.03 141.72E–.08 64–6 3.4b
IDC VI 12 15 30 22.4–2.4 38.14N 141.76E 59–22 3.5,3.4
JMA VI 12 15 30 22.7 38.21N 141.62E 59–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ10.00000°,λ3.00000°. NP2:ϕ_s178.00000°,δ90.00000°,λ100.00000°. $M_0$1.26000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.3km az=10.1.
IDC Error ellipse: s-maj=31.5km s-min=14.0km az=93.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC VI 12 16 01 49.2–1.7 39.29N–.04 142.70E–.08 32–11 3.6b 36 1-63
NIED VI 12 16 01 00 39.30N 142.50E 56 3.7W **¶17205832**
JMA VI 12 16 01 51.6–.10 39.33N 142.48E 52–1 3.9
IDC VI 12 16 01 53.9–3.7 39.27N 142.38E 69–31 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ76.00000°,λ7.00000°. NP2:ϕ_s238.00000°,δ83.00000°,λ166.00000°. $M_0$4.30000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=36.6km s-min=18.7km az=83.0.

(228) Near east coast of eastern Honshu

ISC VI 12 18 31 22.2–1.3 36.53N–.03 140.91E–.05 13–7 4.1b,3.3s 56 0-147
NIED VI 12 18 31 00 36.50N 141.00E 5 4.1W,3.3s **¶16730252**
ISCJB VI 12 18 31 20.1–.94 36.47N–.03 141.05E–.04 8–5 4.0b,3.3s
IDC VI 12 18 31 20.1–.62 36.33N 141.00E 0 4.1,4.0
JMA VI 12 18 31 21.8 36.49N 140.94E 17–1 4.4,4.0
NEIC VI 12 18 31 21.4–.55 36.35N 141.07E 10 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ63.00000°,λ-20.00000°. NP2:ϕ_s96.00000°,δ72.00000°,λ-151.00000°. $M_0$1.56000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=25.7.
IDC Error ellipse: s-maj=15.3km s-min=14.2km az=85.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=10.3km az=120.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.

(228) Near east coast of eastern Honshu

ISC VI 12 20 22 48.0–1.2 38.68N–.05 141.94E–.09 50–9 4.0b 35 0-73
NIED VI 12 20 22 00 38.70N 141.80E 59 4.0W **¶16591893**
ISCJB VI 12 20 22 47.1–.78 38.69N–.04 141.90E–.09 58–5 4.0b
JMA VI 12 20 22 48.6–.10 38.70N 141.80E 53–1 3.9
IDC VI 12 20 22 50.0–2.5 38.68N 141.89E 70–23 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ23.00000°,λ89.00000°. NP2:ϕ_s15.00000°,δ67.00000°,λ90.00000°. $M_0$1.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.3km az=19.0.
JMA Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=14.8km az=83.0.

(116) Central Peru

ISC VI 12 20 32 25.5–.44 8.52S–.05 74.92W–.06 135–4 4.5b 95 4-168
NEIC VI 12 20 32 21.0 8.68S 75.23W 140 4.8b **¶16593439**
ISCJB VI 12 20 32 24.8–.58 8.58S–.04 74.99W–.05 141–6 4.4b
IDC VI 12 20 32 25.4–.43 8.57S 74.98W 132–4 4.7,4.3
ISC Event type fe.

NEIC Event type fe. Felt [III] at Aguatia and Tingo Maria; [II] at Pucallpa. Also felt at Campoverde. After ARE.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.9km az=157.8.
IDC Error ellipse: s-maj=9.6km s-min=8.2km az=67.0.

(558) Ethiopia

ISC	**VI**	**12 20 32 40.0–.44**	**13.44N–.03**	**41.73E–.03**	**7–2**	**5.3b,5.2s**	**1266**	**2-170**
BJI	VI	12 20 32 34.7	13.13N	41.53E	4	5.8b,5.6		**¶16591779**
IDC	VI	12 20 32 38.2–.44	13.33N	41.71E	0	5.4s,5.3		
ISCJB	VI	12 20 32 39.2–.15	13.38N–.02	41.72E–.02	15	5.2b,5.2s		
STR	VI	12 20 32 39.6–.00	13.10N	41.20E		5.4b,5.2s		
MOS	VI	12 20 32 39.0–1.1	13.46N	41.69E	10	5.6b,5.0s		
DHMR	VI	12 20 32 39.8–1.0	13.56N	42.17E	9–30	5.3L,5.0s		
NEIC	VI	12 20 32 40.0–.00	13.46N	41.69E	15	5.3L,5.0s		
SFS	VI	12 20 32 40.0	13.42N	41.70E	10	5.3L,5.0s		
GCMT	VI	12 20 32 40.5–.10	13.58N	41.81E	12	5.6W,5.0s		
CSEM	VI	12 20 32 40.5–.10	13.42N	41.73E	10	5.6W,5.3b		
DSN	VI	12 20 32 40.2–.46	13.38N	41.93E	10	5.5b,5.3b		
NEIC	VI	12 20 32 40.5–.17	13.41N	41.74E	10	5.7W,5.6W		

ISC Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.2km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=23.0.
STR Event type ke.
MOS Error ellipse: s-maj=7.0km s-min=3.3km az=97.3.
DHMR Error ellipse: s-maj=4.3km s-min=27.0km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.15 $M_{\theta\theta}$1.26 $M_{\phi\phi}$0.89 $M_{r\theta}$0.72 $M_{\theta\phi}$-1.42 $M_{\phi r}$-1.23 Best double couple: NP1:ϕ_s322.00000° ,δ61.00000°,λ-78.00000°. NP2:ϕ_s119.00000°,δ31.00000°,λ-109.00000°. Principal axes: T 2.8700,Plg15.0000°,Azm43.0000°; N -0.2800,Plg10.0000°,Azm136.0000° ; P -2.5900,Plg71.0000°,Azm258.0000° M_o2.70000×10^{17}
SFS Event type ke.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c143; s121,c299;Duration: 1⇗5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.45±.03 $M_{\theta\theta}$1.71±.03; $M_{\phi\phi}$0.74±.03; $M_{r\theta}$0.81±.08; $M_{\theta\phi}$-1.75±.02; $M_{\phi r}$0.29±.08; Best double couple: NP1: ϕ_s290.00000°,δ53.00000°,λ-113.00000°. NP2:ϕ_s145.00000°,δ43.00000°,λ-63.00000°. Principal axes: T 3.0810,Plg5.0000°,Azm36.0000°; N -0.3510,Plg18.0000°,Azm305.0000° ; P -2.7300,Plg71.0000°,Azm141.0000° M_o2.90600×10^{17}
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=26.0.
DSN Error ellipse: s-maj=14.3km s-min=5.8km az=124.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=47.0. Felt at Ta'izz, Yemen. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49 $M_{\theta\theta}$2.01 $M_{\phi\phi}$-0.52 $M_{r\theta}$2.02 $M_{\theta\phi}$-2.68 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s265.00000°,δ73.00000°,λ-139.00000°. NP2:ϕ_s161.00000°,δ51.00000°,λ-22.00000°. Principal axes: T 4.0100,Plg14.0000° ,Azm28.0000°; N -0.1600,Plg46.0000°,Azm283.0000°; P -3.8500,Plg41.0000° ,Azm130.0000° M_o3.90000×10^{17}

(238) Ryukyu Islands

ISC	**VI**	**12 20 48 16.9–.74**	**28.04N–.04**	**130.09E–.04**	**28–4**	**4.8b,4.1s**	**382**	**0-115**
NIED	VI	12 20 48 00	28.00N	130.30E	35	5.2W,4.1s		**¶16591780**
BJI	VI	12 20 48 08.3	27.75N	130.44E	10	4.9b,4.9s		
IDC	VI	12 20 48 13.1–.47	28.21N	130.11E	0	4.6,4.5		
JMA	VI	12 20 48 14.3–.10	28.00N	130.26E	35–2	4.6,4.5		
ISCJB	VI	12 20 48 15.9–.56	28.05N–.02	130.10E–.03	31–3	4.7b,4.0s		
NEIC	VI	12 20 48 16.6–1.5	28.10N	129.97E	23–10	4.9b,4.0s		
GCMT	VI	12 20 48 16.6–.40	28.01N	130.33E	28–1	5.0W,4.0s		
MOS	VI	12 20 48 16.2–1.3	28.09N	130.06E	33	4.9b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ24.00000°,λ110.00000°. NP2:ϕ_s202.00000°,δ68.00000°,λ81.00000°. M_o6.47000×10^{16}
IDC Error ellipse: s-maj=17.1km s-min=11.6km az=68.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.8km az=35.4.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=126.0. Recorded [3 JMA] on Kikaiga-shima.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c29; s58,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.98±.33 $M_{\theta\theta}$-1.07±.18; $M_{\phi\phi}$-2.91±.20; $M_{r\theta}$0.91±.32; $M_{\theta\phi}$-1.58±.11; $M_{\phi r}$1.69±.29; Best double couple: NP1:ϕ_s29.00000°,δ58.00000° ,λ89.00000°. NP2:ϕ_s211.00000°,δ32.00000°,λ91.00000°. Principal axes: T 4.4260,Plg77.0000°,Azm297.0000°; N -0.1620,Plg1.0000°,Azm30.0000° ; P -4.2640,Plg13.0000°,Azm120.0000° M_o4.34500×10^{16}
MOS Error ellipse: s-maj=8.6km s-min=4.9km az=106.4.

(558) Ethiopia

ISC	**VI**	**12 21 03 22.3–.48**	**13.52N–.03**	**41.70E–.03**	**3–2**	**5.6b,5.1s**	**1387**	**2-143**
BJI	VI	12 21 03 16.4	13.23N	41.28E	4	5.5b,5.4s		**¶17206003**
IDC	VI	12 21 03 20.9–.39	13.38N	41.69E	0	5.2,5.2		
ISCJB	VI	12 21 03 21.2–.14	13.54N–.02	41.65E–.02	8	5.5b,5.0s		
STR	VI	12 21 03 22.6–.00	13.59N	41.60E		5.4b,5.0s		
CSEM	VI	12 21 03 22.5–.09	13.55N	41.68E	5	5.6b,5.4W		
MOS	VI	12 21 03 22.4–1.0	13.57N	41.60E	14	5.9b,5.0s		
NEIC	VI	12 21 03 23.2–.16	13.53N	41.64E	10	5.6b,5.1s		
GCMT	VI	12 21 03 23.1–.10	13.58N	41.80E	12	5.4W,5.1s		
DHMR	VI	12 21 03 23.6–.60	13.55N	42.24E	6–17	5.2L,5.1s		
DSN	VI	12 21 03 26.8–1.1	13.81N	41.96E	10	5.9b,5.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=9.9km s-min=8.6km az=52.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=19.9.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=19.0.
MOS Error ellipse: s-maj=6.7km s-min=3.1km az=99.1.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=222.0. Felt [IV] at Mek'ele and [III] at Korem, Ethiopia. Felt [II] at Asmera, Eritrea. Also felt at Assab. Felt at Djibouti, Djibouti. Also felt at Aden and Al Hudaydah, Yemen.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s82,c118; s117,c263;Duration: 1⇗2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.02 $M_{\theta\theta}$1.17±.01; $M_{\phi\phi}$0.09±.02; $M_{r\theta}$0.46±.04; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$0.12±.04; Best double couple: NP1: ϕ_s280.00000°,δ54.00000°,λ-106.00000°. NP2:ϕ_s127.00000°,δ39.00000°,λ-69.00000°. Principal axes: T 1.4650,Plg8.0000°,Azm22.0000°; N -0.0800,Plg13.0000°,Azm290.0000° ; P -1.3810,Plg75.0000°,Azm142.0000° M_o1.42300×10^{17}
DHMR Error ellipse: s-maj=2.6km s-min=15.8km az=-1.0.
DSN Error ellipse: s-maj=18.2km s-min=10.4km az=178.0.

(224) Hokkaido region

ISC	**VI**	**12 21 08 14.4–.85**	**41.75N–.04**	**141.42E–.04**	**95–7**	**3.9b**	**38**	**0-65**
ISCJB	VI	12 21 08 13.6–.44	41.76N–.04	141.41E–.05	102–3	4.0b		**¶17206005**
JMA	VI	12 21 08 14.8–.10	41.78N	141.45E	91–1	3.1		
IDC	VI	12 21 08 19.1–10	42.20N	141.26E	116–36	3.9,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.7km az=28.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=183.2km s-min=17.8km az=167.0.

(122) Near coast of northern Chile

ISC	**VI**	**12 23 24 46.5–.50**	**21.30S–.03**	**70.52W–.05**	**38–1**	**4.7b**	**343**	**1-153**
ISCJB	VI	12 23 24 44.8–.15	21.26S–.02	70.69W–.03	33	4.7b		**¶16593447**
SCB	VI	12 23 24 45.5–1.3	21.27S	70.38W	35	4.0L		
GUC	VI	12 23 24 47.0–.33	21.29S	70.47W	52–7	4.7L		
NEIC	VI	12 23 24 47.0	21.29S	70.47W	52	4.7b		
IDC	VI	12 23 24 51.2–1.8	21.27S	70.21W	80–16	4.3,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=140.8.
SCB Event type ke. Error ellipse: s-maj=36.6km s-min=12.0km az=66.0.
GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.
NEIC Event type fe. Felt [IV] at Calama; [III] at Alto Hospicio, Iquique and Quillagua; [II] at Pozo Almonte. After GUC.
IDC Error ellipse: s-maj=21.9km s-min=13.6km az=74.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**13 00 08 31.1–.94**	**35.55N–.05**	**140.17E–.07**	**65–8**	**3.6b**	**29**	**0-79**
ISCJB	VI	13 00 08 30.5–.60	35.56N–.04	140.13E–.08	73–5	3.5b		**¶17206016**
JMA	VI	13 00 08 30.9–.20	35.62N	140.15E	65–2	3.3		
IDC	VI	13 00 08 32.3–1.9	35.53N	140.06E	75–18	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.2km az=168.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.1km s-min=11.6km az=73.0.

(162) South Island

ISC	**VI**	**13 00 29 43.1–.93**	**43.38S–.03**	**172.21E–.03**	**10–6**		**99**	**0-149**
ISCJB	VI	13 00 29 42.3–.55	43.39S–.03	172.25E–.05	12–4	3.6b		**¶16594421**
NEIC	VI	13 00 29 44.1	43.37S	172.16E	11	4.3L		
WEL	VI	13 00 29 44.2–.07	43.37S	172.17E	7–1	4.3L		
IDC	VI	13 00 29 44.3–1.6	43.22S	172.07E	0	4.0,3.7b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.5km az=43.5.
NEIC Event type fe. Felt in central Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 7.
IDC Error ellipse: s-maj=43.8km s-min=12.8km az=139.0.

(162) South Island

ISC	**VI**	**13 01 01 00.1–1.2**	**43.53S–.02**	**172.79E–.03**	**2–7**	**5.1b,4.6s**	**305**	**0-175**
ISCJB	VI	13 01 00 57.9–.26	43.58S–.02	172.92E–.03	10	5.0b,4.6s		**¶16594422**
WEL	VI	13 01 01 00.3–.09	43.58S	172.75E	9–0	5.9L,5.3W		
NEIC	VI	13 01 01 00.3	43.58S	172.76E	9	5.6L,5.2W		
IDC	VI	13 01 01 00.6–.55	43.35S	172.64E	0	4.8,4.7b		
GCMT	VI	13 01 01 00.3–.10	43.49S	172.62E	12	5.2W,4.7b		
MOS	VI	13 01 01 02.5–1.2	43.38S	172.30E	10	5.1b,4.8s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.1km az=146.0.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from Wellington to Southland, maximum reported intensity MM 7.
NEIC Event type fe. Felt [V] at Christchurch. Also felt at Ashburton, Cust, Dunedin and Timaru. After WEL. Moment Tensor Solution. s29 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42 $M_{\theta\theta}$7.37 $M_{\phi\phi}$-6.95 $M_{r\theta}$1.81 $M_{\theta\phi}$-1.84 $M_{\phi r}$-1.08 Best double couple: NP1:ϕ_s143.00000°,δ86.00000° ,λ14.00000°. NP2:ϕ_s52.00000°,δ76.00000°,λ176.00000°. Principal axes: T 8.0400,Plg13.0000°,Azm8.0000°; N -0.7500,Plg75.0000°,Azm158.0000° ; P -7.2900,Plg7.0000°,Azm276.0000° M_o7.70000×10^{16}
IDC Error ellipse: s-maj=14.1km s-min=12.0km az=136.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s55,c79; s107,c190;Duration: 1⇗0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.08±.01 $M_{\theta\theta}$0.67±.01; $M_{\phi\phi}$-0.74±.01; $M_{r\theta}$0.17±.04; $M_{\theta\phi}$-0.36±.01; $M_{\phi r}$0.10±.03; Best double couple: NP1:ϕ_s58.00000° ,δ88.00000°,λ166.00000°. NP2:ϕ_s149.00000°,δ76.00000°,λ2.00000°. Principal axes: T 0.7770,Plg11.0000°,Azm12.0000°; N 0.0720,Plg76.0000°,Azm231.0000° ; P -0.8490,Plg9.0000°,Azm104.0000° M_o0.81300×10^{17}
MOS Error ellipse: s-maj=18.3km s-min=11.8km az=120.7.

(162) South Island

ISC	**VI**	**13 01 08 30.2–.97**	**43.60S–.04**	**172.86E–.04**	**13–5**	**3.5b**	**84**	**0-149**
ISCJB	VI	13 01 08 29.8–.50	43.60S–.03	172.86E–.03	13–3	3.5b		**¶16594423**
NEIC	VI	13 01 08 31.2	43.59S	172.77E	11	4.4L,3.7b		
WEL	VI	13 01 08 32.0–.11	43.56S	172.74E	6–0	4.4L,3.7b		
IDC	VI	13 01 08 32.0–1.9	43.15S	172.46E	0	4.4,4.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.2km az=154.3.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt from Auckland to Otago, maximum reported intensity MM 7.
IDC Error ellipse: s-maj=46.5km s-min=14.8km az=143.0.

(162) South Island

ISC	**VI**	**13 02 20 50.3–.47**	**43.50S–.02**	**172.78E–.02**	**9–2**	**6.0s,5.8b**	**1485**	**0-178**
ISCJB	VI	13 02 20 48.9–.18	43.40S–.02	172.82E–.03	10	6.0s,5.8b		**¶16591901**
MOS	VI	13 02 20 48.0–1.1	43.37S	172.89E	10	5.9s,5.8b		
BJI	VI	13 02 20 49.4	43.63S	172.67E	8	6.0b,5.9s		
WEL	VI	13 02 20 49.3–.10	43.57S	172.74E	7–0	6.4L,6.0W		
GCMT	VI	13 02 20 49.3–.10	43.52S	172.62E	12	6.0W,6.0W		
NEIC	VI	13 02 20 49.3	43.56S	172.74E	6	6.4,6.3L		
IDC	VI	13 02 20 49.1–.34	43.36S	172.90E	0	5.7,5.7s		
NEIC	VI	13 02 20 50.0–.00	43.68S	172.74E	11	5.7,5.7s		

ISC Event type de.
ISCJB Event type de. Error ellipse: s-maj=3.7km s-min=2.0km az=141.1.
MOS Error ellipse: s-maj=14.4km s-min=11.2km az=92.2.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Northland to Otago, maximum reported intensity MM 8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c279; s144,c463;Duration: 2⇗3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.29±.01 $M_{\theta\theta}$0.55±.01; $M_{\phi\phi}$-0.84±.01; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$-0.75±.01; $M_{\phi r}$-0.19±.02; Best double couple: NP1:ϕ_s161.00000°,δ76.00000°,λ19.00000°. NP2:ϕ_s66.00000° ,δ72.00000°,λ165.00000°. Principal axes: T 1.0080,Plg23.0000°,Azm24.0000° ; N 0.1690,Plg67.0000°,Azm197.0000°; P -1.1770,Plg3.0000°,Azm293.0000° M_o1.09200×10^{18}
NEIC Event type de. Forty-five people injured, 100 previously-damaged buildings destroyed, many roads damaged, one bridge destroyed, utilities disrupted, widespread liquefaction and landslides observed [VII] in the Christchurch area. Seaport damaged at Lyttelton. Total damage in Canterbury estimated at 3 to 5 billion U.S. dollars. Felt [IV] at Westport and [III] at Dunedin. Felt in much of Canterbury and as far as Invercargill and Wellington. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After WEL. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}2.77 $M_{\theta\theta}$4.74 $M_{\phi\phi}$-7.50 $M_{r\theta}$4.44 $M_{\theta\phi}$-5.41 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s61.00000°,δ74.00000° ,λ150.00000°. NP2:ϕ_s160.00000°,δ61.00000°,λ18.00000°. Principal axes: T 9.3600,Plg32.0000°,Azm17.0000°; N 0.4800,Plg56.0000°,Azm216.0000° ; P -9.8400,Plg9.0000°,Azm113.0000° M_o9.60000×10^{17} Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}3.33 $M_{\theta\theta}$4.16 $M_{\phi\phi}$-7.49 $M_{r\theta}$3.02 $M_{\theta\phi}$-3.89 $M_{\phi r}$0.21 Best double couple: NP1:ϕ_s157.00000°,δ62.00000°,λ23.00000°. NP2:ϕ_s56.00000° ,δ70.00000°,λ149.00000°. Principal axes: T 7.3700,Plg36.0000°,Azm14.0000° ; N 1.4100,Plg54.0000°,Azm205.0000°; P -8.7700,Plg5.0000°,Azm108.0000° M_o8.20000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ48.00000°,λ155.00000°. NP2:ϕ_s160.00000°,δ72.00000°,λ45.00000°. Principal axes: T Plg44.0000°,Azm26.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000° ,Azm281.0000°
IDC Error ellipse: s-maj=13.6km s-min=10.3km az=52.0.
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$4.41 $M_{\phi\phi}$-6.21 $M_{r\theta}$3.88 $M_{\theta\phi}$-6.02 $M_{\phi r}$-1.54 Best double couple: NP1:ϕ_s66.00000° ,δ71.00000°,λ158.00000°. NP2:ϕ_s163.00000°,δ69.00000°,λ20.00000°. Principal axes: T 9.4100,Plg28.0000°,Azm23.0000°; N -0.4800,Plg61.0000°,Azm206.0000° ; P -8.9300,Plg1.0000°,Azm114.0000° M_o9.20000×10^{17}

(162) South Island

ISC	**VI**	**13 02 40 28.6–1.2**	**43.50S–.03**	**172.89E–.04**	**1–8**	**4.4b**	**184**	**0-153**
ISCJB	VI	13 02 40 27.7–.59	43.61S–.03	172.95E–.04	9–4	4.4b		**¶16593450**
IDC	VI	13 02 40 29.6–1.2	43.34S	172.68E	0	4.5,4.3		
WEL	VI	13 02 40 30.7–.11	43.53S	172.76E	4–0	4.7L,4.3		
NEIC	VI	13 02 40 30.8	43.56S	172.81E	12	4.9L,4.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.8km az=138.6.
IDC Error ellipse: s-maj=43.3km s-min=14.1km az=157.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt from Auckland to Southland, maximum reported intensity MM 7.
NEIC Event type fe. Felt at Christchurch and Cust. After WEL.

(162) South Island

ISC	**VI**	**13 02 54 06.9–1.1**	**43.54S–.04**	**172.88E–.04**	**10–7**		**102**	**0-149**
ISCJB	VI	13 02 54 05.8–.60	43.59S–.03	172.89E–.04	12–4	3.5b		**¶16594428**
IDC	VI	13 02 54 06.9–1.8	43.42S	172.74E	0	3.9,3.7		
NEIC	VI	13 02 54 07.8	43.54S	172.73E	13	4.1L,3.7		
WEL	VI	13 02 54 08.1–.12	43.53S	172.77E	6–0	4.1L,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.5km az=139.1.
IDC Error ellipse: s-maj=48.6km s-min=16.6km az=158.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(162) South Island

WEL	**VI**	**13 03 08 29.4–.13**	**43.59S**	**172.76E**	**10–0**	**3.8L**		**¶16594429**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt from Canterbury to Southland, maximum reported intensity MM 5.

(277) Jawa

ISC	**VI**	**13 03 17 00.5–.54**	**8.89S–.08**	**112.46E–.05**	**71**	**4.2b**	**52**	**1-155**

IDC VI 13 03 16 51.3–.69 8.50S 112.44E 0 4.3,4.2 ¶16684526
ISCJB VI 13 03 17 00.0–.41 8.94S–.06 112.44E–.03 71 4.1b,4.2
NEIC VI 13 03 17 00.9–.74 8.72S 112.46E 76–7 4.2b,4.2
DJA VI 13 03 17 02.7–.70 9S–5.0 112E–2.0 37–7 6.2b,5.8
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Blitar and [II] at Karangkates and Tulungagung.

(162) South Island

WEL VI 13 03 33 08.7–.20 43.62S 172.81E 5–0 3.4L ¶603731176

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL VI 13 04 10 47.5–.19 43.58S 172.80E 7–0 3.4L ¶603814386

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.

(162) South Island

WEL VI 13 04 23 09.4–.11 43.56S 172.75E 6–0 3.6L ¶16594435

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL VI 13 04 40 40.5–.13 43.59S 172.79E 6–0 3.6L ¶16594437

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL VI 13 04 56 36.4–.12 43.54S 172.74E 8–0 3.4L ¶16594438

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 4.

(135) Near coast of central Chile

ISC VI 13 05 19 55.3–.54 32.41S–.03 71.36W–.05 44–4 4.7b,3.7s 127 1-167
SJA VI 13 05 19 50.3–.83 32.33S 71.77W 35–40 4.7W,4.7L ¶16593451
ISCJB VI 13 05 19 55.5–.41 32.43S–.02 71.33W–.06 61–4 4.6b,4.7L
GUC VI 13 05 19 55.7–.70 32.42S 71.23W 46–2 4.7L,4.7L
NEIC VI 13 05 19 55.0 32.42S 71.22W 46 4.7b,4.7L
IDC VI 13 05 19 56.0–.64 32.35S 71.06W 50–5 4.4,4.3
ISC Event type fe.
SJA Error ellipse: s-maj=7.1km s-min=36.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.1km az=177.4.
GUC Error ellipse: s-maj=1.4km s-min=5.1km az=-1.0.
NEIC Event type fe. Felt [V] at Quillota, San Felipe and Zapallar; [IV] at Algarrobo, Cabildo, Casablanca, La Ligua, Los Andes, Papudo, Puchuncavi, Quintero, Tiltil, Valparaiso, Villa Alemana and Vina del Mar; [III] at Canela, Melipilla, Penaflor, Petorca, Salamanca, San Antonio, San Bernardo, San Jose de Maipo and Santiago; [II] at Illapel, Los Vilos, Rancagua and Talca. Also felt at Buin, Calera, Colina, Lampa, Limache, Llaillay, Paine, Puente Alto, Quilpue, Rengo and San Felipe. After GUC.
IDC Error ellipse: s-maj=17.5km s-min=15.4km az=77.0.

(162) South Island

WEL VI 13 06 16 04.9–.16 43.52S 172.76E 4–1 3.6L ¶603482795

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(229) Off east coast of Honshu

ISC VI 13 06 50 32.5–.51 39.89N–.03 143.11E–.03 29–3 5.0b,5.0s 956 1-154
NIED VI 13 06 50 00 39.90N 143.20E 20 5.1W,5.0s ¶16591908
BJI VI 13 06 50 29.0 39.85N 143.14E 25 5.1b,5.1b
JMA VI 13 06 50 29.3–.20 39.95N 143.23E 16–2 5.1,5.1b
ISCJB VI 13 06 50 31.2–.60 39.91N–.02 143.10E–.02 28–4 5.0b,4.9s
GCMT VI 13 06 50 31.6–.20 40.01N 143.13E 23–0 5.1W,4.9s
NEIC VI 13 06 50 31.6–.39 39.91N 143.02E 18–2 5.0b,4.9s
MOS VI 13 06 50 32.0–.86 40.07N 142.97E 28 5.2b,4.9s
IDC VI 13 06 50 33.9–2.2 39.87N 143.09E 39–19 4.7,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ17.00000°,λ75.00000°. NP2:ϕ_s26.00000°,δ74.00000°,λ94.00000°. $M_0$4.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=152.8.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c69; s103,c165; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.76±.19 $M_{\theta\theta}$-0.51±.11; $M_{\phi\phi}$-3.26±.12; $M_{r\theta}$1.79±.17; $M_{\theta\phi}$-0.62±.07; $M_{\phi r}$3.66±.19; Best double couple: NP1:ϕ_s22.00000°,δ69.00000°,λ96.00000°. NP2:ϕ_s185.00000°,δ21.00000°,λ74.00000°. Principal axes: T 5.6480,Plg65.0000°,Azm303.0000°; N -0.4720,Plg6.0000°,Azm200.0000°; P -5.1840,Plg24.0000°,Azm107.0000° $M_0$5.41600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=145.0. Felt at Misawa. Recorded [2 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=105.8.
IDC Error ellipse: s-maj=13.1km s-min=10.9km az=112.0.

(162) South Island

WEL VI 13 07 29 01.9–.28 43.61S 172.86E 2 3.5L ¶601027376

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL VI 13 07 42 24.3–.13 43.59S 172.79E 8–0 3.7L ¶603482796

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC VI 13 07 42 36.6–1.5 36.35N–.04 141.15E–.07 26–10 3.8b 31 1-83
NIED VI 13 07 42 00 36.30N 141.10E 38 3.8W ¶17206036
ISCJB VI 13 07 42 36.4–.76 36.33N–.03 141.15E–.07 43–7 3.8b
JMA VI 13 07 42 37.0–.10 36.32N 141.05E 47–1 3.6
IDC VI 13 07 42 40.5–2.4 36.25N 140.98E 65–22 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ23.00000°,λ92.00000°. NP2:ϕ_s23.00000°,δ67.00000°,λ89.00000°. $M_0$5.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.6km az=179.3.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=10.0km az=67.0.

(228) Near east coast of eastern Honshu

ISC VI 13 07 44 43.6–.91 35.69N–.04 140.73E–.07 46–8 3.8b 32 0-148
NIED VI 13 07 44 00 35.70N 140.80E 47 4.1W ¶16720915
ISCJB VI 13 07 44 42.5–.55 35.67N–.04 140.70E–.08 52–5 3.7b,3.0s
JMA VI 13 07 44 43.0–.10 35.72N 140.67E 46–1 3.6,3.0s
IDC VI 13 07 44 45.1–1.9 35.54N 140.63E 62–17 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ20.00000°,λ91.00000°. NP2:ϕ_s26.00000°,δ70.00000°,λ90.00000°. $M_0$1.42000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=6.4km az=165.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s35.00000°,δ62.00000°,λ84.00000°. NP2: ϕ_s227.00000°,δ28.00000°,λ101.00000°. Principal axes: T Plg72.0000°,Azm292.0000°; N Plg5.0000°,Azm37.0000°; P Plg17.0000°,Azm129.0000°
IDC Error ellipse: s-maj=20.2km s-min=7.8km az=68.0.

(228) Near east coast of eastern Honshu

ISC VI 13 08 01 46.2–.90 35.70N–.05 140.79E–.06 49–8 3.7b 30 0-76
NIED VI 13 08 01 00 35.70N 140.70E 50 4.1W ¶17206038
ISCJB VI 13 08 01 44.5–.57 35.70N–.04 140.84E–.06 53–5 3.6b,3.1s
IDC VI 13 08 01 45.9–1.7 35.61N 140.79E 48–17 3.7,3.6
JMA VI 13 08 01 45.4–.10 35.73N 140.68E 49–1 3.3,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ82.00000°. NP2:ϕ_s28.00000°,δ73.00000°,λ93.00000°. $M_0$1.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.8km az=164.5.
IDC Error ellipse: s-maj=19.8km s-min=8.4km az=71.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s34.00000°,δ83.00000°,λ89.00000°. NP2: ϕ_s222.00000°,δ7.00000°,λ98.00000°. Principal axes: T Plg52.0000°,Azm303.0000°; N Plg1.0000°,Azm34.0000°; P Plg38.0000°,Azm125.0000°

(162) South Island

WEL VI 13 08 28 25.7–.14 43.59S 172.78E 7–0 4.0L
NEIC VI 13 08 28 25.2 43.59S 172.81E 9 4.0L ¶16594443
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt from Nelson to Canterbury, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.

(162) South Island

WEL VI 13 09 40 39.4–.14 43.58S 172.77E 8–0 3.6L ¶16613926

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(229) Off east coast of Honshu

ISC VI 13 11 39 23.7–.52 36.74N–.05 142.05E–.05 19 4.3b,3.7s 91 1-90
NIED VI 13 11 39 00 36.80N 142.00E 20 4.3W,3.7s ¶16720916
IDC VI 13 11 39 20.7–.65 36.68N 142.09E 0 4.2,4.1
ISCJB VI 13 11 39 21.5–.37 36.65N–.03 142.17E–.04 19 4.2b,3.5s
NEIC VI 13 11 39 23.6–2.4 36.69N 142.16E 19–15 4.5b,3.5s
JMA VI 13 11 39 24.6–.40 36.76N 142.03E 47 4.3,3.5s
MOS VI 13 11 39 24.1–1.1 36.77N 142.13E 33 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ18.00000°,λ86.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ91.00000°. $M_0$3.20000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=13.3km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.5km az=41.7.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.7km az=123.0. Recorded [1 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=6.9km az=98.1.

(256) Leyte

ISC VI 13 12 06 08.9–1.6 10.77N–.03 124.52E–.03 4–12 4.1b,3.1s 36 0-92
ISCJB VI 13 12 06 08.7–.84 10.76N–.03 124.57E–.04 2–6 4.0b,3.2s ¶17206049
MAN VI 13 12 06 09 10.75N 124.55E 11 4.8b,3.8L
IDC VI 13 12 06 10.8–1.8 11.06N 124.62E 0 4.8L,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=33.6.
MAN Event type fe. INTENSITY II - ISABEL LEYTE.
IDC Error ellipse: s-maj=102.1km s-min=24.6km az=81.0.

(162) South Island

WEL VI 13 12 43 59.2–.07 43.59S 172.72E 7–0 3.8L
NEIC VI 13 12 43 58.8 43.59S 172.74E 9 3.8L ¶16594444
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.

(181) Fiji Islands region

ISC VI 13 12 46 00.3–.34 19.26S–.04 177.41W–.04 570–3 5.0b 787 5-174
MOS VI 13 12 45 58.7–.97 19.05S 177.56W 556 4.8b ¶16593458
BJI VI 13 12 45 58.9 18.75S 177.40W 552 4.9b,4.8b
ISCJB VI 13 12 45 58.7–.50 19.23S–.03 177.48W–.02 562–6 5.0b,4.8b
IDC VI 13 12 45 59.4–.79 19.17S 177.44W 560–8 5.1,4.4
NEIC VI 13 12 46 00.6–.44 19.19S 177.52W 571–5 5.2b,4.4
GCMT VI 13 12 46 00.6–.40 19.25S 177.34W 585–3 5.3W,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=9.0km s-min=7.7km az=57.3.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=158.1.
IDC Error ellipse: s-maj=9.0km s-min=8.1km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=142.0. Felt at Suva.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s59,c72;Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.25±.04 $M_{\theta\theta}$0.20±.06; $M_{\phi\phi}$-0.45±.05; $M_{r\theta}$-0.18±.06; $M_{\theta\phi}$0.01±.05; $M_{\phi r}$-0.98±.05; Best double couple: NP1:ϕ_s191.00000°,δ81.00000°,λ97.00000°. NP2:ϕ_s333.00000°,δ12.00000°,λ52.00000°. Principal axes: T 0.9740,Plg54.0000°,Azm110.0000°; N 0.1770,Plg7.0000°,Azm10.0000°; P -1.1510,Plg35.0000°,Azm275.0000° $M_0$1.06200×10^{17}

(228) Near east coast of eastern Honshu

ISC VI 13 13 38 46.7–1.7 37.31N–.04 141.24E–.06 5–10 4.1b 34 0-75
NIED VI 13 13 38 00 37.30N 141.30E 5 3.8W ¶16730405
ISCJB VI 13 13 38 45.3–1.0 37.30N–.03 141.33E–.05 8–5 4.0b
IDC VI 13 13 38 46.3–.85 37.34N 141.18E 0 3.9,3.9b
JMA VI 13 13 38 47.1 37.29N 141.23E 14–1 3.8,3.9b
NEIC VI 13 13 38 50.5–2.7 37.39N 141.14E 27–19 4.2b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ38.00000°,λ-87.00000°. NP2:ϕ_s268.00000°,δ52.00000°,λ-92.00000°. $M_0$6.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=24.5.
IDC Error ellipse: s-maj=21.1km s-min=16.6km az=100.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=13.2km s-min=7.2km az=127.0. Recorded [1 JMA] in Fukushima.

(266) Northern Molucca Sea

ISC VI 13 14 31 23.4–.29 2.55N–.02 126.46E–.03 66–2 6.4b 2419 1-173
KLM VI 13 14 31 16.1 2.25N 127.37E 60 6.9s,6.5b ¶602897626
BJI VI 13 14 31 20.1 2.45N 126.50E 42 6.6b,6.3b
NEIC VI 13 14 31 21.0–.00 2.53N 126.75E 80 6.6b,6.3b
MOS VI 13 14 31 21.4–1.0 2.53N 126.45E 58 6.5b,5.7s
ISCJB VI 13 14 31 22.3–.25 2.47N–.01 126.48E–.02 71–2 6.3b,5.7s
NEIC VI 13 14 31 23.0–.52 2.52N 126.46E 61–4 7.0,6.4b
IDC VI 13 14 31 23.4–1.1 2.45N 126.51E 67–8 6.1,5.8
GCMT VI 13 14 31 23.0–.10 2.74N 126.35E 82–0 6.4W,5.8
DJA VI 13 14 31 24.8–.20 2N–2.0 126E–1.0 81–2 6.8,6.8b
NEIC VI 13 14 31 36.6–.00 2.25N 126.68E 53 6.8,6.8b
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s54 Moment tensor: Scale 10^{18}Nm; M_{rr}0.58 $M_{\theta\theta}$2.21 $M_{\phi\phi}$-2.79 $M_{r\theta}$0.31 $M_{\theta\phi}$3.06 $M_{\phi r}$0.71 Best double couple: NP1:ϕ_s19.00000°,δ87.00000°,λ168.00000°. NP2:ϕ_s110.00000°,δ78.00000°,λ3.00000°. Principal axes: T 3.7700,Plg10.0000°,Azm333.0000°; N 0.5300,Plg77.0000°,Azm184.0000°; P -4.2900,Plg6.0000°,Azm65.0000° $M_0$4.10000×10^{18}
MOS Error ellipse: s-maj=6.7km s-min=3.8km az=112.6.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=160.6.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=75.0. Felt [V] at Manado; [IV] on Pulau Ternate and at Tahuna; [III] at Bitung and Melonguanne, Indonesia. Felt at Zamboanga, Philippines. Complex event observed on broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}1.50 $M_{\theta\theta}$2.17 $M_{\phi\phi}$-3.66 $M_{r\theta}$-0.05 $M_{\theta\phi}$2.10 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s207.00000°,δ90.00000°,λ-175.00000°. NP2:ϕ_s117.00000°,δ85.00000°,λ0.00000°. Principal axes: T 2.8500,Plg3.0000°,Azm342.0000°; N 1.5200,Plg85.0000°,Azm212.0000°; P -4.3600,Plg4.0000°,Azm72.0000° $M_0$3.80000×10^{18}
IDC Error ellipse: s-maj=9.3km s-min=5.8km az=70.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c342; s135,c500;Duration: 3^{s}9 Moment tensor: Scale 10^{18} Nm; M_{rr}0.63±.02 $M_{\theta\theta}$2.91±.02; $M_{\phi\phi}$-3.54±.03; $M_{r\theta}$0.88±.02; $M_{\theta\phi}$3.68±.02; $M_{\phi r}$0.14±.02; Best double couple: NP1:ϕ_s111.00000°,δ83.00000°,λ10.00000°. NP2:ϕ_s20.00000°,δ80.00000°,λ173.00000°. Principal axes: T 4.7590,Plg12.0000°,Azm336.0000°; N 0.4610,Plg78.0000°,Azm145.0000°; P -5.2170,Plg2.0000°,Azm245.0000° $M_0$4.98800×10^{18}
NEIC Event type se. Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}0.37 $M_{\theta\theta}$3.19 $M_{\phi\phi}$-3.56 $M_{r\theta}$0.74 $M_{\theta\phi}$3.23 $M_{\phi r}$0.85 Best double couple: NP1:ϕ_s114.00000°,δ77.00000°,λ5.00000°. NP2:ϕ_s22.00000°,δ85.00000°,λ167.00000°. Principal axes: T 4.7200,Plg13.0000°,Azm337.0000°; N 0.1900,Plg76.0000°,Azm182.0000°; P -4.9000,Plg6.0000°,Azm69.0000° $M_0$4.80000×10^{18}

(162) South Island

ISC VI 13 14 48 07.6–1.0 43.58S–.03 172.80E–.03 8–7 130 0-149
ISCJB VI 13 14 48 05.8–.53 43.65S–.03 172.87E–.03 13–4 3.8b ¶16594445
IDC VI 13 14 48 06.8–1.6 43.33S 172.70E 0 4.2,4.0
NEIC VI 13 14 48 08.2 43.58S 172.73E 9 4.6L,4.0
WEL VI 13 14 48 08.7–.08 43.58S 172.72E 6–0 4.6L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.0km az=148.1.
IDC Error ellipse: s-maj=45.4km s-min=15.2km az=152.0.
NEIC Event type fe. Felt at Christchurch. After WEL.

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt from Wellington to Otago, maximum reported intensity MM 6.

(277) Jawa

ISC	**VI**	**13 15 46 35.2–.36**	**8.18S–.05**	**110.68E–.04**	**150**	**4.6b**	**156**	**0-146**
BJI	VI	13 15 46 33.6	8.10S	110.70E	152	4.9b,4.6b		¶16593463
ISCJB	VI	13 15 46 34.0–.22	8.03S–.04	110.74E–.03	150	4.5b,4.6b		
MOS	VI	13 15 46 34.3–.77	7.90S	110.80E	154	4.8b,4.6b		
KLM	VI	13 15 46 34.5	8.43S	110.88E	169	6.4s,4.6b		
NEIC	VI	13 15 46 35.6–.42	8.04S	110.73E	152–3	4.7b,4.6b		
IDC	VI	13 15 46 36.1–5.9	7.94S	110.80E	154–55	4.6,4.3		
DJA	VI	13 15 46 37.3–.20	8S–4.0	111E–2.0	125–2	5.7b,5.2		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bantul, Gunungkidul, Pacitan and Yogyakarta.

(228) Near east coast of eastern Honshu

ISC	**VI**	**13 15 53 59.9–1.2**	**35.74N–.05**	**140.76E–.08**	**49–9**	**3.4b**	**20**	**0-59**
ISCJB	VI	13 15 53 58.9–.78	35.73N–.05	140.75E–.09	58–6	3.5b		¶17206054
IDC	VI	13 15 53 59.2–5.9	35.74N	140.83E	48–42	3.4,3.3		
JMA	VI	13 15 54 00.1–.10	35.75N	140.63E	47–1	2.9,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.8km az=160.9.
IDC Error ellipse: s-maj=79.1km s-min=15.3km az=75.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**13 16 20 14.5–2.0**	**38.99N–.05**	**142.44E–.09**	**26–13**	**3.6b**	**26**	**1-63**
JMA	VI	13 16 20 16.0–.10	38.99N	142.39E	42–1	3.6		¶17206056
IDC	VI	13 16 20 19.8–3.7	38.91N	142.24E	76–34	3.6,3.5		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=18.5km az=97.0.

(460) Wyoming

ISC	**VI**	**13 16 46 44.7–.00**	**43.39N–.05**	**105.57W–.05**	**0**		**21**	**1-10**
ISCJB	VI	13 16 46 45.9–1.1	43.54N–.08	105.74W–.09	0			¶17206058
IDC	VI	13 16 46 45.8–2.1	43.35N	105.57W	0	3.7,3.5		
NEIC	VI	13 16 46 47.4–1.1	43.49N	105.69W	0	3.0L,3.5		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=12.7km s-min=7.3km az=36.7.
IDC Error ellipse: s-maj=48.2km s-min=8.9km az=154.0.
NEIC Event type fm. Error ellipse: s-maj=15.3km s-min=7.7km az=219.0. 49 km [30 miles] E of Midwest. Suspected Mining explosion.

(229) Off east coast of Honshu

ISC	**VI**	**13 16 49 48.3–.63**	**36.65N–.04**	**142.06E–.04**	**30–4**	**4.8b,4.5s**	**372**	**1-146**
NIED	VI	13 16 49 00	36.70N	142.00E	20	4.7W,4.5s		¶16593464
IDC	VI	13 16 49 44.3–.61	36.65N	142.02E	0	4.6,4.5		
BJI	VI	13 16 49 46.5	36.60N	142.01E	31	5.0b,4.9b		
ISCJB	VI	13 16 49 46.2–.70	36.66N–.02	142.02E–.03	23–4	4.8b,4.5s		
JMA	VI	13 16 49 47.2–.30	36.68N	142.03E	36	4.7,4.5s		
NEIC	VI	13 16 49 49.2–1.5	36.69N	141.96E	32–10	4.9b,4.5s		
MOS	VI	13 16 49 50.3–.95	37.01N	141.85E	39	5.1b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ12.00000°,λ94.00000°. NP2:ϕ_s22.00000°,δ78.00000°,λ89.00000°. $M_0$1.36000×10^{16}
IDC Error ellipse: s-maj=15.3km s-min=12.3km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=40.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=3.9km az=131.0. Recorded [1 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
MOS Error ellipse: s-maj=7.4km s-min=4.5km az=110.5.

(162) South Island

WEL	**VI**	**13 18 37 43.5–.10**	**43.60S**	**172.72E**	**10–0**	**3.5L**	
							¶601027440

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(238) Ryukyu Islands

ISC	**VI**	**13 20 14 26.0–1.0**	**29.19N–.04**	**129.30E–.06**	**9–7**	**3.6b**	**19**	**0-49**
IDC	VI	13 20 14 24.8–4.6	29.17N	129.35E	0	3.7,3.6		¶17206066
ISCJB	VI	13 20 14 25.6–.94	29.22N–.03	129.21E–.07	13–6	3.5b,3.6		
JMA	VI	13 20 14 25.4–.10	29.22N	129.21E	14–1	2.9,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=236.5km s-min=27.1km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.1km az=12.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.

(162) South Island

WEL	**VI**	**13 20 52 45.4–.14**	**43.60S**	**172.78E**	**9–0**	**3.9L**	
							¶16594449

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.

(228) Near east coast of eastern Honshu

ISC	**VI**	**13 20 59 34.6–1.7**	**37.31N–.04**	**141.42E–.06**	**25–11**	**4.0b,3.2s**	**62**	**0-147**
NIED	VI	13 20 59 00	37.30N	141.40E	20	4.1W,3.2s		¶16720921
ISCJB	VI	13 20 59 34.1–.79	37.29N–.03	141.42E–.06	36–6	4.1b,3.2s		
JMA	VI	13 20 59 35.1–.10	37.34N	141.33E	33–1	4.4,3.2s		
IDC	VI	13 20 59 36.5–3.1	37.31N	141.27E	37–27	4.1,4.0L		
NEIC	VI	13 20 59 39.7–1.1	37.21N	141.18E	70–9	4.3b,4.0L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ10.00000°,λ-64.00000°. NP2:ϕ_s213.00000°,δ81.00000°,λ-95.00000°. $M_0$1.69000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.1km az=12.7.
JMA Event type fe.
IDC Error ellipse: s-maj=17.1km s-min=14.5km az=78.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=9.6km az=109.0. Recorded [2 JMA] in Fukushima.

(162) South Island

WEL	**VI**	**13 21 43 48.5–.14**	**43.60S**	**172.76E**	**8–0**	**3.6L**	
							¶16613937

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(706) Northern Sumatera

ISC	**VI**	**14 00 08 34.4–.35**	**1.78N–.03**	**99.07E–.03**	**29–2**	**5.2b,5.1s**	**861**	**1-177**
IDC	VI	14 00 08 28.1–.37	1.76N	99.10E	0	4.9,4.9s		¶602897630
KLM	VI	14 00 08 28.3	1.64N	98.95E	10	6.2s,5.8L		
BJI	VI	14 00 08 29.4	1.37N	98.90E	24	5.7s,5.4		
NEIC	VI	14 00 08 32.5–.20	1.83N	99.23E	17	5.5W,5.5W		
NEIC	VI	14 00 08 33.0–.00	1.63N	99.28E	23	5.5W,5.5W		
ISCJB	VI	14 00 08 33.0–.61	1.82N–.02	99.16E–.02	25–4	5.1s,5.0b		
MOS	VI	14 00 08 34.7–2.0	2.05N	99.20E	33	5.4b,5.1s		
GCMT	VI	14 00 08 35.2–.10	1.85N	99.11E	21–0	5.5W,5.1s		
DJA	VI	14 00 08 35.7–.10	2N–2.0	99E–2.0	10	6.1,5.8		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Sibolga and Tarutung and [III] at Medan. Also felt at Pematangsiantar. Felt [III] at Gunungsitoli, Nias. Felt [III] in the Kuala Lumpur area and at Subang Jaya; [II] at Kajang, Klang, Petaling Jaya and Shah Alam, Malaysia. Also felt at Kampung Gelugor, Sepang and Tanjong Karang. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.05 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$1.61 $M_{r\theta}$0.28 $M_{\theta\phi}$0.93 $M_{\phi r}$-0.31 Best double couple: NP1:ϕ_s240.00000°,δ78.00000°,λ-2.00000°. NP2:ϕ_s330.00000°,δ88.00000°,λ-168.00000°. Principal axes: T 1.8900,Plg7.0000°,Azm104.0000° ; N 0.0800,Plg78.0000°,Azm339.0000°; P -1.9700,Plg10.0000°,Azm195.0000° $M_0$1.90000×10^{17} Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}0.20 $M_{\theta\theta}$-1.34 $M_{\phi\phi}$1.14 $M_{r\theta}$-0.15 $M_{\theta\phi}$0.68 $M_{\phi r}$0.34 Best double couple: NP1:ϕ_s60.00000° ,δ75.00000°,λ5.00000°. NP2:ϕ_s329.00000°,δ86.00000°,λ165.00000°. Principal axes: T 1.3900,Plg14.0000°,Azm283.0000°; N 0.1600,Plg74.0000°,Azm133.0000° ; P -1.5500,Plg8.0000°,Azm15.0000° $M_0$1.50000×10^{17}
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-1.60 $M_{\phi\phi}$1.70 $M_{r\theta}$0.60 $M_{\theta\phi}$0.60 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s326.00000° ,δ78.00000°,λ-165.00000°. NP2:ϕ_s233.00000°,δ76.00000°,λ-11.00000°. Principal axes: T 1.9000,Plg2.0000°,Azm99.0000°; N 0.1000,Plg71.0000°,Azm3.0000° ; P -1.9000,Plg17.0000°,Azm190.0000° $M_0$2.00000×10^{17}
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c160; s124,c250;Duration: 1$\pm$4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07$\pm$.03 $M_{\theta\theta}$-1.93$\pm$.03; $M_{\phi\phi}$1.86$\pm$.03; $M_{r\theta}$-0.73$\pm$.06; $M_{\theta\phi}$0.94$\pm$.02; $M_{\phi r}$-0.71$\pm$.06; Best double couple: NP1:ϕ_s239.00000°,δ85.00000°,λ25.00000°. NP2:ϕ_s147.00000° ,δ65.00000°,λ175.00000°. Principal axes: T 2.4050,Plg21.0000°,Azm106.0000° ; N -0.1200,Plg65.0000°,Azm249.0000°; P -2.2850,Plg14.0000°,Azm10.0000° $M_0$2.34500×10^{17}

(162) South Island

WEL	**VI**	**14 00 11 35.8–.17**	**43.62S**	**172.81E**	**5–0**	**3.5L**		
								¶16614290

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.

(162) South Island

WEL	**VI**	**14 00 22 56.5–.09**	**43.60S**	**172.76E**	**10–0**	**4.2L**		
								¶16614291

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6. CRLZ not around.

(162) South Island

WEL	**VI**	**14 02 33 03.8–.24**	**43.64S**	**172.84E**	**6–0**	**3.6L**		
								¶16614295

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.8km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.

(706) Northern Sumatera

ISC	**VI**	**14 03 01 30.7–.33**	**1.85N–.02**	**99.08E–.03**	**29–1**	**5.5s,5.3b**	**1254**	**1-177**
BJI	VI	14 03 01 24.2	1.39N	98.94E	23	6.0s,5.8		¶16594456
IDC	VI	14 03 01 25.6–.36	1.90N	99.13E	0	5.2s,5.2		
ISCJB	VI	14 03 01 29.1–.57	1.87N–.02	99.13E–.02	29–4	5.5s,5.2b		
GCMT	VI	14 03 01 29.8–.10	1.81N	99.11E	17–0	5.7W,5.2b		
KLM	VI	14 03 01 29.4	1.86N	99.25E	10	6.4s,5.8L		
NEIC	VI	14 03 01 29.0–.00	1.83N	99.13E	22	6.4s,5.8L		
NEIC	VI	14 03 01 29.8–.16	1.84N	99.11E	22	5.6W,5.6W		
DJA	VI	14 03 01 30.6–.10	2N–2.0	99E–2.0	10	5.9b,5.8		
MOS	VI	14 03 01 31.0–1.3	2.02N	99.15E	40	5.4b,5.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=14.0km s-min=9.8km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=135.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c203; s125,c350;Duration: 1$\pm$7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07$\pm$.04 $M_{\theta\theta}$-3.44$\pm$.04; $M_{\phi\phi}$3.37$\pm$.04; $M_{r\theta}$-2.09$\pm$.13; $M_{\theta\phi}$1.52$\pm$.04; $M_{\phi r}$-0.79$\pm$.11; Best double couple: NP1:ϕ_s57.00000° ,δ87.00000°,λ-30.00000°. NP2:ϕ_s149.00000°,δ60.00000°,λ-177.00000°. Principal axes: T 4.1000,Plg19.0000°,Azm107.0000°; N 0.4540,Plg60.0000°,Azm232.0000° ; P -4.5580,Plg23.0000°,Azm8.0000° $M_0$4.32900×10^{17}
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-2.90 $M_{\phi\phi}$2.90 $M_{r\theta}$1.00 $M_{\theta\phi}$1.30 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s328.00000° ,δ80.00000°,λ-164.00000°. NP2:ϕ_s235.00000°,δ74.00000°,λ-9.00000°. Principal axes: T 3.2000,Plg4.0000°,Azm101.0000°; N 0.3000,Plg71.0000°,Azm357.0000° ; P -3.5000,Plg17.0000°,Azm192.0000° $M_0$3.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=46.0. Felt [IV] at Sibolga and Tarutung. Felt [III] at Gunungsitoli, Nias. Felt [III] at Subang Jaya and [II] at Ampang, Kampung Salak Tinggi, George Town, Kajang, Klang, Kuala Lumpur, Petaling Jaya and Shah Alam, Malaysia. Felt widely in the George Town-Melaka area. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}0.58 $M_{\theta\theta}$-2.93 $M_{\phi\phi}$2.35 $M_{r\theta}$0.35 $M_{\theta\phi}$1.20 $M_{\phi r}$0.11 Best double couple: NP1:ϕ_s327.00000°,δ83.00000°,λ180.00000°. NP2:ϕ_s57.00000° ,δ90.00000°,λ7.00000°. Principal axes: T 2.6200,Plg5.0000°,Azm282.0000° ; N 0.5900,Plg83.0000°,Azm58.0000°; P -3.2100,Plg5.0000°,Azm192.0000° $M_0$3.00000×10^{17} Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}0.54 $M_{\theta\theta}$-2.92 $M_{\phi\phi}$2.38 $M_{r\theta}$-0.59 $M_{\theta\phi}$0.47 $M_{\phi r}$-0.03 Best double couple: NP1:ϕ_s50.00000° ,δ85.00000°,λ-8.00000°. NP2:ϕ_s140.00000°,δ82.00000°,λ-175.00000°. Principal axes: T 2.4200,Plg2.0000°,Azm95.0000°; N 0.6300,Plg80.0000°,Azm200.0000° ; P -3.0500,Plg9.0000°,Azm5.0000° $M_0$2.80000×10^{17}
MOS Error ellipse: s-maj=7.4km s-min=4.1km az=108.6.

(329) Eastern Kazakhstan

ISC	**VI**	**14 03 12 29.1–1.1**	**45.05N–.03**	**78.92E–.03**	**7–8**		**77**	**0-72**
BJI	VI	14 03 12 26.9	45.27N	78.80E	5	3.6L		¶17206080
ISCJB	VI	14 03 12 27.6–.67	45.08N–.02	78.92E–.04	3–5	3.6b		
NNC	VI	14 03 12 28.7–.56	45.03N	78.81E	0	4.1b,3.7		
SOME	VI	14 03 12 29.9	44.92N	78.85E	10	2.9s,3.7		
IDC	VI	14 03 12 29.7–1.1	45.09N	78.97E	0	3.5,3.5		
MOS	VI	14 03 12 32.0–1.8	45.33N	78.67E	25	4.3b,3.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=27.1.
NNC Event type se. Error ellipse: s-maj=13.4km s-min=4.5km az=137.0.
IDC Error ellipse: s-maj=16.3km s-min=9.8km az=139.0.
MOS Event type fe. Error ellipse: s-maj=12.3km s-min=7.8km az=81.8. Felt (III) at Tekeli. Moment Tensor Solution.

(162) South Island

WEL	**VI**	**14 04 08 16.0–.09**	**43.59S**	**172.75E**	**9–0**	**3.9L**		
NEIC	VI	14 04 08 15.9	43.59S	172.75E	10	3.9L		¶16614301

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.

(162) South Island

ISC	**VI**	**14 04 16 26.0–.89**	**43.52S–.03**	**171.20E–.03**	**12–6**	**4.2b,3.7s**	**105**	**0-153**
ISCJB	VI	14 04 16 25.4–.36	43.55S–.03	171.18E–.03	25–3	4.3b,3.9s		¶16596674
WEL	VI	14 04 16 25.9–.06	43.48S	171.15E	5	4.8L,3.9s		
NEIC	VI	14 04 16 25.9	43.48S	171.15E	5	4.8L,4.4W		
IDC	VI	14 04 16 25.0–1.2	43.50S	171.20E	0	4.1,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.8km az=139.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt from West Coast to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury and in the Greymouth-Hokitika area. After WEL. Moment Tensor Solution. s34 Moment tensor: Scale 10^{15}Nm; M_{rr}0.80 $M_{\theta\theta}$2.96 $M_{\phi\phi}$-3.76 $M_{r\theta}$-0.93 $M_{\theta\phi}$-3.82 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s339.00000°,δ78.00000°,λ1.00000°. NP2: ϕ_s249.00000°,δ89.00000°,λ168.00000°. Principal axes: T 4.7900,Plg9.0000°,Azm204.0000° ; N 0.8200,Plg78.0000°,Azm64.0000°; P -5.6100,Plg8.0000°,Azm295.0000° $M_0$5.20000×10^{15}
IDC Error ellipse: s-maj=48.4km s-min=33.3km az=33.0.

(162) South Island

WEL	**VI**	**14 06 01 15.2–.26**	**43.58S**	**172.75E**	**8–1**	**3.0L**		
								¶601027470

WEL Event type fe. Error ellipse: s-maj=3.0km s-min=1.2km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA	**VI**	**14 08 01 05.8–.10**	**39.35N**	**142.37E**	**31–1**	**3.6**		
NIED	VI	14 08 01 00	39.30N	142.40E	32	3.4W		¶600640127

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ46.00000°,λ9.00000°. NP2:ϕ_s75.00000°,δ84.00000°,λ136.00000°. $M_0$1.54000×10^{14}

(112) Peru-Brazil border region

ISC	**VI**	**14 08 38 19.3–.40**	**10.25S–.04**	**71.05W–.06**	**540–4**	**4.1b**	**391**	**6-154**
ISCJB	VI	14 08 38 18.6–.29	10.27S–.03	71.05W–.04	552–4	4.2b		¶16594464
NEIC	VI	14 08 38 19.5–.32	10.28S	70.97W	540–4	4.2b		
IDC	VI	14 08 38 19.1–.46	10.35S	71.09W	542–5	4.5,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.7km az=159.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=3.5km az=76.0. Felt [II] at Puerto Maldonado, Peru. Also felt at Iberia.
IDC Error ellipse: s-maj=14.2km s-min=8.7km az=54.0.

(227) Eastern Honshu

ISC	**VI**	**14 09 23 58.8–.92**	**37.04N–.03**	**140.80E–.05**	**10–6**	**3.6b**	**25**	**0-61**
ISCJB	VI	14 09 23 57.9–.72	37.01N–.03	140.89E–.06	12–3	3.6b		¶17206104
IDC	VI	14 09 23 57.5–1.4	37.06N	140.77E	0	3.6,3.6		
JMA	VI	14 09 23 59.0	37.02N	140.77E	8–1	3.1,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.3km az=7.3.
IDC Error ellipse: s-maj=21.2km s-min=17.8km az=168.0.
JMA Event type fe.

(162) South Island

WEL	**VI**	**14 09 41 55.7–.10**	**43.61S**	**172.76E**	**9–0**	**4.0L**		
NEIC	VI	14 09 41 55.2	43.61S	172.81E	10	4.0L		¶16614304

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt from Canterbury to Southland, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.

(162) South Island
WEL VI 14 12 28 41.9–.17 43.64S 172.84E 6–0 3.6L ¶16614306
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 4.

(224) Hokkaido region
ISC VI 14 12 48 54.0–.42 43.14N–.03 145.29E–.03 70–3 5.2b 1416 0-155
NIED VI 14 12 48 00 43.10N 145.40E 80 5.0W **¶603244146**
IDC VI 14 12 48 52.7–1.6 43.24N 145.34E 55–14 5.1,4.9
BJI VI 14 12 48 52.8 43.22N 145.29E 74 5.1b,5.0b
NEIC VI 14 12 48 53.2–.38 43.22N 145.24E 56–3 5.3b,5.0b
GCMT VI 14 12 48 53.2–.30 43.21N 145.24E 82–2 5.0W,5.0b
ISCJB VI 14 12 48 53.8–.20 43.13N–.02 145.28E–.02 79–1 5.1b,5.0b
JMA VI 14 12 48 54.9–.10 43.12N 145.36E 73–1 5.1,5.0b
MOS VI 14 12 48 54.0–.87 43.22N 145.24E 79 5.5b,5.0b
SKHL VI 14 12 48 55.7–.90 43.19N 145.38E 91–7 5.6s,5.6b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ50.00000°,λ137.00000°. NP2:ϕ_s157.00000°,δ59.00000°,λ49.00000°. $M_0$3.62000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.3km az=155.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=160.0. Felt at Obihiro and Sapporo. Also felt at Misawa, Honshu. Felt [III] at Shakotan and Yuzhno-Kuril'sk, Kuril Islands. Recorded [4 JMA] in eastern Hokkaido.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c57; s78,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.12 $M_{\theta\theta}$2.22±.12; $M_{\phi\phi}$-4.03±.11; $M_{r\theta}$1.46±.08; $M_{\theta\phi}$-0.53±.10; $M_{\phi r}$-1.15±.09; Best double couple: NP1:ϕ_s149.00000°,δ70.00000°,λ40.00000°. NP2:ϕ_s43.00000°,δ53.00000°,λ154.00000°. Principal axes: T 3.6650,Plg42.0000°,Azm12.0000°; N 0.5930,Plg46.0000°,Azm172.0000°; P -4.2590,Plg10.0000°,Azm272.0000° $M_0$3.96200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=164.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ48.00000°,λ65.00000°. NP2:ϕ_s216.00000°,δ48.00000°,λ115.00000°. Principal axes: T Plg72.0000°,Azm199.0000°; N Plg18.0000°,Azm19.0000°; P Plg0.0000°,Azm109.0000°
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=3.8km az=102.4. Felt (III) Yuzhno-Kuril'sk, Malokuril'skoye. Moment Tensor Solution.
SKHL Event type fe. Felt (III) at Yushno-Kurilsk (102 km).

(229) Off east coast of Honshu
ISC VI 14 13 06 54.3–.36 37.78N–.03 143.57E–.03 30–2 5.7b,5.5s 1972 2-160
NIED VI 14 13 06 00 37.80N 143.60E 20 5.8W,5.5s **¶16596682**
IDC VI 14 13 06 50.0–.32 37.72N 143.60E 0 5.5,5.5s
ISCJB VI 14 13 06 51.0–.43 37.72N–.01 143.55E–.01 16–2 5.6b,5.5s
GCMT VI 14 13 06 51.5–.10 37.73N 143.58E 20–0 5.8W,5.5s
JMA VI 14 13 06 52.8–.20 37.81N 143.58E 50 6.0,5.5s
NEIC VI 14 13 06 52.2–.08 37.73N 143.51E 14 6.2,5.8W
MOS VI 14 13 06 53.3–.86 37.70N 143.51E 33 5.8b,5.8s
NEIC VI 14 13 06 55.0–.00 37.76N 143.62E 15 5.8b,5.8s
BJI VI 14 13 06 56.8 37.91N 142.92E 33 6.0b,5.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ45.00000°,λ-157.00000°. NP2:ϕ_s220.00000°,δ74.00000°,λ-48.00000°. $M_0$4.89000×10^{17}
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=161.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c235; s146,c418;Duration: 2$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.51±.05 $M_{\theta\theta}$-4.76±.05; $M_{\phi\phi}$6.27±.06; $M_{r\theta}$2.16±.12; $M_{\theta\phi}$1.33±.04; $M_{\phi r}$2.81±.13; Best double couple: NP1:ϕ_s228.00000°,δ85.00000°,λ-34.00000°. NP2:ϕ_s322.00000°,δ57.00000°,λ-174.00000°. Principal axes: T 7.4900,Plg19.0000°,Azm280.0000°; N -1.6510,Plg56.0000°,Azm41.0000°; P -5.8380,Plg27.0000°,Azm180.0000° $M_0$6.66400×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=146.0. Felt [II] at Tokyo. Also felt at Akiruno, Atsugi, Ichinoseki, Kasama, Kumagaya, Sagamihara, Yokosuka and Zushi. Recorded [3 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s71 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53 $M_{\theta\theta}$-5.82 $M_{\phi\phi}$6.35 $M_{r\theta}$1.71 $M_{\theta\phi}$1.07 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s320.00000°,δ69.00000°,λ-179.00000°. NP2:ϕ_s230.00000°,δ89.00000°,λ-21.00000°. Principal axes: T 6.8900,Plg14.0000°,Azm277.0000°; N -0.5400,Plg69.0000°,Azm46.0000°; P -6.3500,Plg16.0000°,Azm183.0000° $M_0$6.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s308.00000°,δ60.00000°,λ-174.00000°. NP2:ϕ_s215.00000°,δ85.00000°,λ-30.00000°. Principal axes: T Plg17.0000°,Azm265.0000°; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm167.0000°
MOS Error ellipse: s-maj=5.8km s-min=4.2km az=110.2.
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30 $M_{\theta\theta}$-3.40 $M_{\phi\phi}$4.70 $M_{r\theta}$2.90 $M_{\theta\phi}$0.60 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s324.00000°,δ66.00000°,λ-153.00000°. NP2:ϕ_s223.00000°,δ66.00000°,λ-25.00000°. Principal axes: T 4.7000,Plg0.0000°,Azm93.0000°; N 0.7000,Plg55.0000°,Azm3.0000°; P -5.4000,Plg34.0000°,Azm184.0000° $M_0$5.00000×10^{17}

(228) Near east coast of eastern Honshu
ISC VI 14 14 56 01.2–.39 39.49N–.03 142.50E–.03 25–2 5.3s,5.2b 984 1-148
BJI VI 14 14 55 57.2 39.40N 142.52E 19 5.4b,5.3s **¶17206119**
NEIC VI 14 14 56 00.7–.33 39.48N 142.39E 20–2 5.2b,5.3s
JMA VI 14 14 56 00.0–.10 39.49N 142.53E 28–1 5.3,5.3s
GCMT VI 14 14 56 00.7–.20 39.57N 142.62E 15 5.4W,5.3s
NIED VI 14 14 56 00 39.50N 142.60E 17 5.2W,5.3s
ISCJB VI 14 14 56 01.6–.30 39.50N–.02 142.41E–.02 36–2 5.2s,5.2b
IDC VI 14 14 56 02.5–2.8 39.49N 142.47E 32–20 4.9,4.9s
MOS VI 14 14 56 02.0–.88 39.55N 142.42E 39 5.4b,5.4s
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=145.0. Felt [III] at Misawa. Also felt at Aomori and Ichinoseki. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000°,δ89.00000°,λ118.00000°. NP2:ϕ_s114.00000°,δ28.00000°,λ2.00000°. Principal axes: T Plg40.0000°,Azm317.0000°; N Plg28.0000°,Azm201.0000°; P Plg38.0000°,Azm87.0000°
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c56; s83,c132; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.00±.02 $M_{\theta\theta}$0.08±.01; $M_{\phi\phi}$-0.08±.01; $M_{r\theta}$0.78±.04; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$1.56±.04; Best double couple: NP1:ϕ_s27.00000°,δ90.00000°,λ92.00000°. NP2:ϕ_s123.00000°,δ2.00000°,λ6.00000°. Principal axes: T 1.7260,Plg45.0000°,Azm299.0000°; N 0.0370,Plg2.0000°,Azm207.0000°; P -1.7630,Plg45.0000°,Azm114.0000° $M_0$1.74500×10^{17}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ16.00000°,λ23.00000°. NP2:ϕ_s29.00000°,δ84.00000°,λ105.00000°. $M_0$6.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.5.
IDC Error ellipse: s-maj=11.5km s-min=8.8km az=99.0.
MOS Error ellipse: s-maj=5.8km s-min=3.9km az=105.2.

(662) Sakhalin Island
ISC VI 14 15 26 10.0–.99 46.95N–.03 142.22E–.04 12 16 0-9
JMA VI 14 15 26 07.4–.40 47.25N 142.27E 18 3.4 **¶600640361**
SKHL VI 14 15 26 08.9–.30 46.99N 142.14E 10 4.5b
ISCJB VI 14 15 26 09.2–.61 46.99N–.03 142.15E–.05 12 4.5b
MOS VI 14 15 26 09.0–2.3 47.01N 142.14E 10 4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
SKHL Event type fe. Felt (IV) at Pyatirech'ye, Chaplanovo, (III) at Kholmsk.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=162.8.
MOS Event type fe. Error ellipse: s-maj=57.2km s-min=32.2km az=100.8. Felt (IV) at Pyatirech'e, Chaplanovo; (III) at Holmsk. Moment Tensor Solution.

(229) Off east coast of Honshu
ISC VI 14 15 33 54.0–.96 39.61N–.06 143.4E–.10 38–3 3.8b 51 1-67
NIED VI 14 15 33 00 39.60N 143.50E 17 3.9W **¶16601808**
IDC VI 14 15 33 47.8–.95 39.49N 143.49E 0 3.8,3.8
JMA VI 14 15 33 50.8–.20 39.64N 143.51E 33 4.2,3.8
ISCJB VI 14 15 33 51.2–.89 39.58N–.04 143.53E–.07 34–7 4.0b,3.8s
NEIC VI 14 15 33 54.0–3.9 39.64N 143.39E 35 4.2b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s30.00000°,δ75.00000°,λ100.00000°. $M_0$8.26000×10^{14}
IDC Error ellipse: s-maj=24.5km s-min=16.3km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.2km az=20.3.
NEIC Event type fe. Error ellipse: s-maj=77.1km s-min=6.9km az=113.0. Felt at Misawa.

(116) Central Peru
ISC VI 14 16 25 05.9–.45 9.74S–.06 74.62W–.07 130 4.1b 47 3-150
ISCJB VI 14 16 25 04.7–.37 9.73S–.05 74.59W–.05 130 3.9b **¶16601810**
IDC VI 14 16 25 05.5–.67 9.75S 74.60W 126–6 4.1,3.9
NEIC VI 14 16 25 06.3–.75 9.72S 74.59W 132–7 4.3b,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=30.2.
IDC Error ellipse: s-maj=12.3km s-min=10.8km az=61.0.
NEIC Event type fe. Error ellipse: s-maj=10.8km s-min=7.0km az=215.0. Felt [III] at Pucallpa. Also felt at Campoverde, Huanuco and Tingo Maria.

(227) Eastern Honshu
ISC VI 14 16 51 40.7–.87 38.98N–.05 140.95E–.04 10–7 23 0-63
NIED VI 14 16 51 00 39.00N 140.90E 5 3.7W **¶17206125**
ISCJB VI 14 16 51 40.0–.54 39.04N–.03 140.90E–.04 11–5 3.8b
IDC VI 14 16 51 39.8–1.6 38.88N 141.20E 0 3.7,3.7b
JMA VI 14 16 51 40.3 39.04N 140.87E 5–1 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ72.00000°,λ16.00000°. NP2:ϕ_s112.00000°,δ75.00000°,λ161.00000°. $M_0$3.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.4km az=161.7.
IDC Error ellipse: s-maj=41.3km s-min=22.8km az=93.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s302.00000°,δ77.00000°,λ-148.00000°. NP2:ϕ_s203.00000°,δ58.00000°,λ-15.00000°. Principal axes: T Plg12.0000°,Azm69.0000°; N Plg55.0000°,Azm321.0000°; P Plg32.0000°,Azm167.0000°

(228) Near east coast of eastern Honshu
ISC VI 14 17 54 49.7–.37 39.50N–.03 142.51E–.04 38–1 4.6b,4.3s 378 1-145
NIED VI 14 17 54 00 39.50N 142.50E 17 4.6W,4.3s **¶16603752**
JMA VI 14 17 54 46.6–.10 39.50N 142.55E 28–1 4.6,4.3s
ISCJB VI 14 17 54 48.0–.42 39.49N–.02 142.48E–.03 35–3 4.6b,4.3s
BJI VI 14 17 54 47.9 39.39N 142.29E 31 4.8b,4.6b
MOS VI 14 17 54 48.4–1.1 39.56N 142.51E 35 4.8b,4.5s
IDC VI 14 17 54 50.8–1.8 39.45N 142.44E 45–16 4.2,4.1
NEIC VI 14 17 54 50.7–.51 39.47N 142.44E 46–5 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ4.00000°,λ141.00000°. NP2:ϕ_s31.00000°,δ88.00000°,λ87.00000°. $M_0$7.96000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.2km az=136.8.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=95.3.
IDC Error ellipse: s-maj=15.0km s-min=12.2km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=137.0. Recorded [2 JMA] in Iwate and Miyagi.

(99) Northern Colombia
ISC VI 14 17 55 14.0–.43 6.79N–.03 72.97W–.04 161–3 4.7b 755 0-154
ISCJB VI 14 17 55 12.7–.19 6.80N–.02 73.02W–.02 162–1 4.7b **¶16617368**
NEIC VI 14 17 55 13.8–.28 6.76N 72.99W 158–3 4.7b
IDC VI 14 17 55 14.2–.45 6.77N 72.98W 162–4 4.6,4.3
RSNC VI 14 17 55 15.3–1.1 6.79N 73.11W 148–5 4.8L,4.3
FUNV VI 14 17 55 17.4 6.90N 72.87W 166 4.1W,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=141.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=3.0km az=122.0. Felt at Bogota and Los Santos.
IDC Error ellipse: s-maj=10.5km s-min=6.9km az=125.0.
RSNC Error ellipse: s-maj=3.6km s-min=6.0km az=-1.0.

(460) Wyoming
ISC VI 14 18 12 23.0–.91 43.78N–.05 105.18W–.05 0 62 1-20
IDC VI 14 18 12 20.6–2.7 43.32N 105.13W 0 4.2L,3.7 **¶16730494**
ISCJB VI 14 18 12 22.2–.40 43.72N–.03 105.26W–.05 0 4.2L,3.7
NEIC VI 14 18 12 23.9–.42 43.70N 105.24W 0 3.3L,3.7
ISC Event type sm.
IDC Error ellipse: s-maj=58.8km s-min=9.1km az=155.0.
ISCJB Event type fm. Error ellipse: s-maj=4.9km s-min=4.5km az=146.7.
NEIC Event type fm. Error ellipse: s-maj=5.5km s-min=5.1km az=70.0. 69 km [43 miles] SSE of Gillette. Suspected Mining explosion.

(162) South Island
ISC VI 14 18 27 26.1–.45 43.42S–.04 172.88E–.03 13 4.7b,3.9s 169 0-154
BJI VI 14 18 27 19.0 44.44S 173.32E 5 5.7b,5.3b **¶16601814**
ISCJB VI 14 18 27 21.9–.36 43.69S–.04 172.98E–.04 10 4.7b,3.9s
WEL VI 14 18 27 24.2–.13 43.65S 172.84E 5 5.2L,3.9s
NEIC VI 14 18 27 26.8–.48 43.64S 172.93E 35 5.0b,4.8W
GCMT VI 14 18 27 26.8–.50 43.67S 172.85E 13–2 4.9W,4.8W
IDC VI 14 18 27 34.3–6.2 43.45S 172.66E 75–51 4.4,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.3km az=146.7.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=4.1km az=138.0. Felt at Christchurch. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}0.27 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.64 $M_{r\theta}$0.49 $M_{\theta\phi}$-0.70 $M_{\phi r}$-0.53 Best double couple: NP1:ϕ_s149.00000°,δ83.00000°,λ24.00000°. NP2:ϕ_s56.00000°,δ66.00000°,λ172.00000°. Principal axes: T 1.7700,Plg22.0000°,Azm15.0000°; N 0.1100,Plg65.0000°,Azm165.0000°; P -1.8800,Plg11.0000°,Azm280.0000° $M_0$1.80000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c11; s68,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.27±.12 $M_{\theta\theta}$2.21±.12; $M_{\phi\phi}$-1.93±.10; $M_{r\theta}$0.25±.27; $M_{\theta\phi}$-0.83±.11; $M_{\phi r}$1.45±.44; Best double couple: NP1:ϕ_s142.00000°,δ70.00000°,λ-22.00000°. NP2:ϕ_s240.00000°,δ69.00000°,λ-159.00000°. Principal axes: T 2.3710,Plg1.0000°,Azm191.0000°; N 0.5490,Plg61.0000°,Azm282.0000°; P -2.9110,Plg29.0000°,Azm101.0000° $M_0$2.64100×10^{16}
IDC Error ellipse: s-maj=34.4km s-min=17.3km az=80.0.

(162) South Island
ISC VI 14 18 32 01.6–1.2 43.62S–.05 172.90E–.05 6–8 42 0-154
NEIC VI 14 18 32 02.0 43.66S 172.87E 1 4.2L **¶16614315**
WEL VI 14 18 32 02.3–.18 43.65S 172.85E 6–0 4.2L
IDC VI 14 18 32 04.0–1.6 43.19S 172.89E 0 4.2,3.9
ISC Event type fe.
NEIC Event type fe. Felt in parts of Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=98.0km s-min=41.7km az=27.0.

(162) South Island
WEL VI 14 20 44 58.4–.28 43.65S 172.85E 7–0 3.7L ¶16614317
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island
WEL VI 14 21 41 41.9–.18 43.63S 172.82E 6–0 3.8L ¶16614319
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.

(218) Near east coast of Kamchatka Peninsula
ISC VI 14 23 01 35.5–.50 55.30N–.03 162.20E–.04 87–3 4.8b 727 1-117
BJI VI 14 23 01 31.8 55.30N 162.07E 85 4.9b,4.7b **¶16598344**
KRSC VI 14 23 01 31.1–.65 55.27N 162.52E 90–17 5.4L,4.7b
IDC VI 14 23 01 32.1–1.8 55.35N 162.07E 53–15 4.6,4.5
MOS VI 14 23 01 34.5–.94 55.32N 162.10E 91 4.8b,4.5
ISCJB VI 14 23 01 34.6–.22 55.32N–.02 162.13E–.03 93–2 4.7b,4.5
NEIC VI 14 23 01 35.5–.46 55.46N 161.94E 81–4 4.8b,4.5
ISC Event type fe.
KRSC Event type se. FELT [II] at Ust-Kamchatsk.
IDC Error ellipse: s-maj=13.5km s-min=8.9km az=148.0.
MOS Event type fe. Error ellipse: s-maj=6.0km s-min=3.5km az=84.7. Felt (II) at Ust'-Kamchatsk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=144.6.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.5km az=159.0. Felt [II] at Ust'-Kamchatsk.

(228) Near east coast of eastern Honshu
ISC VI 14 23 15 50.5–.90 36.97N–.04 140.71E–.05 13–6 3.6b 30 0-147
IDC VI 14 23 15 49.0–.89 37.00N 140.71E 0 3.9,3.7 ¶17206140
ISCJB VI 14 23 15 50.0–.57 36.95N–.03 140.80E–.05 18–4 3.6b,3.7
JMA VI 14 23 15 50.8 36.97N 140.67E 7–1 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=17.6km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=20.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s215.00000°,δ63.00000°,λ-112.00000°. NP2:ϕ_s77.00000°,δ35.00000°,λ-54.00000°. Principal axes: T Plg15.0000°,Azm321.0000°; N Plg20.0000°,Azm226.0000°; P Plg65.0000°,Azm86.0000°
(162) South Island
ISC VI 15 01 03 42.2–.71 43.69S–.04 172.92E–.04 10 4.6b,3.7s 107 0-154
ISCJB VI 15 01 03 40.3–.34 43.69S–.03 172.96E–.04 10 4.7b,3.7s ¶16614378
IDC VI 15 01 03 41.7–1.4 43.74S 172.82E 0 4.8,4.6b
NEIC VI 15 01 03 41.9 43.66S 172.86E 5 4.7b,4.6L
WEL VI 15 01 03 42.1–.18 43.66S 172.86E 5 4.7L,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.4km az=140.2.
IDC Error ellipse: s-maj=92.4km s-min=34.3km az=23.0.
NEIC Event type fe. Felt in the Christchurch area. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}-3.13 $M_{\theta\theta}$8.58 $M_{\phi\phi}$-5.45 $M_{r\theta}$0.66 $M_{\theta\phi}$-2.66 $M_{\phi r}$-1.55 Best double couple: NP1:ϕ_s323.00000°,δ77.00000°,λ-20.00000°. NP2:ϕ_s57.00000°,δ71.00000°,λ-167.00000°. Principal axes: T 9.1400,Plg4.0000°,Azm11.0000° ; N -2.6100,Plg67.0000°,Azm111.0000°; P -6.5200,Plg23.0000°,Azm279.0000° $M_0$8.20000×10^{15}
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(353) Southern Iran
ISC VI 15 01 05 28.8–.28 27.95N–.02 57.66E–.02 33–1 5.3b,5.0s 1865 1-155
ISN VI 15 01 05 19.3–1.4 27.47N 58.25E 5–94 5.3L,5.0s ¶17206144
MOS VI 15 01 05 27.1–.86 27.93N 57.58E 33 5.5b,4.9s
ISCJB VI 15 01 05 27.3–.12 27.89N–.02 57.63E–.01 35 5.3b,4.9s
THR VI 15 01 05 27.3–.75 27.94N 57.75E 18–6 5.7L,4.9s
BJI VI 15 01 05 28.4 28.00N 57.60E 35 5.2b,5.2s
SFS VI 15 01 05 29.0 27.98N 57.57E 40 5.3L,5.2s
CSEM VI 15 01 05 29.0–.08 28.02N 57.70E 33 5.3b,5.0s
GCMT VI 15 01 05 30.7–.10 27.71N 57.56E 41–0 5.5W,5.0s
IDC VI 15 01 05 30.3–1.5 27.99N 57.70E 46–13 5.2,5.1L
OMAN VI 15 01 05 30.9–20 27.87N 57.77E 25–0 5.2,5.1L
NEIC VI 15 01 05 30.7 27.78N 57.77E 34 5.7L,5.4b
TEH VI 15 01 05 30.7 27.78N 57.77E 34 5.3L,5.4b
DSN VI 15 01 05 31.3–.02 27.94N 57.65E 36 6.1L,5.2b
ISC Event type fe.
ISN Error ellipse: s-maj=43.8km s-min=73.0km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=3.3km az=121.1.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=7.8.
THR Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=11.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c196; s113,c226;Duration: 1ŝ3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.70±.02 $M_{\theta\theta}$-1.06±.02; $M_{\phi\phi}$0.35±.02; $M_{r\theta}$1.08±.03; $M_{\theta\phi}$0.98±.02; $M_{\phi r}$0.67±.03; Best double couple: NP1:ϕ_s79.00000°,δ74.00000°,λ47.00000°. NP2:ϕ_s333.00000°,δ45.00000°,λ157.00000°. Principal axes: T 1.9350,Plg44.0000°,Azm308.0000°; N -0.1600,Plg41.0000°,Azm94.0000° ; P -1.7730,Plg18.0000°,Azm199.0000° $M_0$1.85400×10^{17}
IDC Error ellipse: s-maj=10.6km s-min=8.6km az=159.0.
OMAN Error ellipse: s-maj=2.6km s-min=1.3km az=273.0.
NEIC Event type fe. Felt at Bandar Abbas and Kahnuj. After TEH.
DSN Error ellipse: s-maj=1.9km s-min=0.7km az=290.0.
(162) South Island
WEL VI 15 01 29 34.1–.14 43.65S 172.86E 8–0 4.1L
NEIC VI 15 01 29 34.1 43.65S 172.86E 8 4.1L ¶16614380
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
(162) South Island
WEL VI 15 02 27 08.6–.23 43.66S 172.87E 5 4.2L
NEIC VI 15 02 27 07.7 43.69S 172.92E 0 4.3L ¶16614382
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area and on the Banks Peninsula. After WEL.
(277) Jawa
ISC VI 15 02 34 20.9–.80 7.67S–.08 107.20E–.04 62–6 4.4b 100 0-154
IDC VI 15 02 34 12.8–.47 7.49S 107.16E 0 4.5,4.4b ¶16713159
NEIC VI 15 02 34 18.0–.87 7.65S 106.97E 37–8 4.8b,4.4b
DJA VI 15 02 34 18.0–.60 8S–2.0 107E–2.0 12–4 5.0b,4.9
ISCJB VI 15 02 34 20.7–.44 7.56S–.06 107.21E–.04 75–3 4.3b,4.9
ISC Event type fe.
NEIC Event type fe. Felt [II] at Sindangbarang.
ISCJB Event type fe.
(162) South Island
WEL VI 15 04 15 46.7–.28 43.65S 172.84E 8–0 3.6L
¶16614384
WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.2km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(228) Near east coast of eastern Honshu
ISC VI 15 06 07 44.6–2.3 38.75N–.05 142.2E–.10 9–11 3.8b 20 1-50
IDC VI 15 06 07 49.9–12 39.45N 141.41E 0 3.8b,3.7 ¶17206161
JMA VI 15 06 07 50.3–.10 38.85N 142.04E 46–1 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=249.3km s-min=43.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(259) Mindanao
ISC VI 15 06 24 25.3–1.5 8.05N–.04 123.24E–.05 25–11 3.9b 27 1-86
IDC VI 15 06 24 22.1–.97 8.49N 123.47E 0 4.5L,3.9 ¶17206164
MAN VI 15 06 24 24 8.06N 123.28E 20 4.4b,3.3L
ISCJB VI 15 06 24 25.2–.81 8.06N–.04 123.24E–.04 31–6 3.8b,2.6s
ISC Event type fe.
MAN Event type fe. INTENSITY III - MOLAVE AND AURORA ZAMBOANGA DEL SUR; INTENSITY I - PAGADIAN CITY.
ISCJB Event type fe.
(186) Vanuatu Islands
ISC VI 15 07 20 28.4–.44 14.93S–.05 167.36E–.06 108–3 4.6b 185 7-166
BJI VI 15 07 20 26.5 14.59S 167.57E 99 4.9b,4.8b ¶16598364
ISCJB VI 15 07 20 27.6–1.4 14.92S–.05 167.32E–.05 114–13 4.7b,4.8b
IDC VI 15 07 20 28.3–.61 14.91S 167.38E 108–4 4.6,4.4
MOS VI 15 07 20 28.1–.98 14.93S 167.30E 117 4.8b,4.4
NEIC VI 15 07 20 29.2–.88 14.91S 167.37E 117–8 4.7b,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.4km az=44.7.
IDC Error ellipse: s-maj=16.2km s-min=10.8km az=99.0.
MOS Error ellipse: s-maj=10.9km s-min=9.3km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=6.0km az=147.0. Felt at Luganville.
(228) Near east coast of eastern Honshu
JMA VI 15 07 42 09.0 36.06N 140.67E 12–1 3.5
¶600640870
JMA Event type fe.
(135) Near coast of central Chile
ISC VI 15 07 49 44.2–1.7 28.46S–.03 71.52W–.07 1–10 40 1-153
ISCJB VI 15 07 49 47.6–1.3 28.33S–.03 71.57W–.08 18–9 4.3b,3.2s ¶16730546
NEIC VI 15 07 49 49.0 28.47S 71.25W 36 4.0L,3.2s
GUC VI 15 07 49 49.8–.74 28.47S 71.25W 36–12 4.0L,3.2s
IDC VI 15 07 50 03.9–5.2 27.63S 70.22W 92–38 4.0b,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.6km az=175.7.
NEIC Event type fe. Felt [III] at Freirina and Huasco and [II] at Copiapo and Tierra Amarilla. After GUC.
GUC Error ellipse: s-maj=2.0km s-min=8.1km az=-1.0.
IDC Error ellipse: s-maj=54.6km s-min=38.9km az=26.0.
(259) Mindanao
MAN VI 15 07 54 45 9.48N 125.89E 5 4.7b,3.6L
¶601654270
MAN Event type fe. INTENSITY IV - CARRASCAL AND CANTILAN SURIGAO DEL SUR; INTENSITY III - MADRID SURIGAO DEL SUR; INTENSITY II - CARMEN SURIGAO DEL SUR.
(135) Near coast of central Chile
ISC VI 15 08 44 48.0–.97 29.07S–.03 71.54W–.06 28–7 53 1-153
SJA VI 15 08 44 43.5–.34 28.77S 71.70W 10 4.2W,4.1L ¶16730549
IDC VI 15 08 44 48.9–1.0 29.04S 71.41W 32–5 3.8L,3.7
GUC VI 15 08 44 49.3–.50 29.01S 71.39W 58–13 4.0L,3.7
NEIC VI 15 08 44 49.0 29.01S 71.39W 58 4.0,3.7
ISC Event type fe.
SJA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=46.8km s-min=36.7km az=95.0.
GUC Error ellipse: s-maj=1.4km s-min=11.9km az=-1.0.
NEIC Event type fe. Felt [II] at Coquimbo, La Higuera and La Serena. After GUC.
(162) South Island
WEL VI 15 10 07 54.4–.08 43.59S 172.75E 5 4.0L
NEIC VI 15 10 07 54.4 43.59S 172.76E 5 4.0L ¶16614388
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
(162) South Island
ISC VI 15 10 16 39.6–1.4 43.67S–.06 172.91E–.06 12–9 34 0-5
ISCJB VI 15 10 16 38.8–1.5 43.70S–.08 172.96E–.10 9–9 ¶16614389
NEIC VI 15 10 16 40.8 43.63S 172.83E 6 3.8L
WEL VI 15 10 16 41.0–.25 43.62S 172.83E 5 3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=6.9km az=140.2.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.9km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
(135) Near coast of central Chile
ISC VI 15 10 29 55.9–.66 30.88S–.04 71.33W–.08 52–5 3.9b 49 1-154
ISCJB VI 15 10 29 55.4–.77 30.83S–.03 71.5W–.10 70–8 3.6b ¶16730557
NEIC VI 15 10 29 55.0 30.85S 71.29W 43 4.2b
GUC VI 15 10 29 55.9–.70 30.85S 71.30W 43–4 4.3L
IDC VI 15 10 29 55.4–1.0 31.04S 71.18W 53–5 4.1,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=4.8km az=178.6.
NEIC Event type fe. Felt [III] at Coquimbo, Illapel, La Serena, Salamanca and Vicuna and [II] at Canela and Paiguano. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=12.2km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=26.6km az=160.0.
(372) Cyprus region
ISC VI 15 11 32 04.2–1.3 34.45N–.02 32.84E–.02 7–9 3.8b 286 0-81
JSO VI 15 11 32 01.8–.72 34.76N 32.77E 138–135 3.7 ¶16601823
ISK VI 15 11 32 01.1 34.27N 32.73E 3 3.8L
NSSC VI 15 11 32 03.5–1.2 34.54N 32.81E 0–16 3.2L,1.3
IDC VI 15 11 32 03.4–.93 34.48N 32.83E 0 3.9,3.9
NEIC VI 15 11 32 03.3 34.37N 32.90E 1 4.0L,3.8b
ISCJB VI 15 11 32 03.9–.47 34.38N–.01 32.77E–.02 11–3 3.7b,3.8b
NIC VI 15 11 32 03.3–.10 34.37N 32.90E 1 4.0L,3.8b
DDA VI 15 11 32 04.3 34.55N 32.79E 7 4.2L,3.8b
GII VI 15 11 32 04.9–.00 34.47N 32.85E 5–0 3.5,3.8b
CSEM VI 15 11 32 05.2–.09 34.42N 32.80E 10 4.0L,3.8b
HLW VI 15 11 32 05.6 34.66N 32.83E 33–32 3.6L,3.5
ISC Event type fe.
JSO Error ellipse: s-maj=157.8km s-min=127.0km az=-1.0.
NSSC Error ellipse: s-maj=3.6km s-min=31.5km az=-1.0.
IDC Error ellipse: s-maj=19.1km s-min=14.9km az=46.0.
NEIC Event type fe. Felt at Limassol. After NIC.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=164.9.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=71.0.
(221) Kuril Islands
ISC VI 15 11 32 42.4–1.4 43.41N–.07 147.01E–.06 42–12 4.0b 65 1-83
NIED VI 15 11 32 00 43.30N 147.00E 50 3.8W ¶16720924
JMA VI 15 11 32 41.9–.30 43.35N 146.97E 38–3 3.9
SKHL VI 15 11 32 42.9–.00 43.34N 147.01E 62–5 5.1b
ISCJB VI 15 11 32 42.3–.87 43.44N–.06 146.98E–.07 57–7 4.0b
MOS VI 15 11 32 43.5–1.4 43.63N 146.76E 61 4.3b
IDC VI 15 11 32 45.5–4.4 43.60N 146.93E 62–28 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ52.00000°,λ16.00000°. NP2:ϕ_s72.00000°,δ78.00000°,λ141.00000°. $M_0$5.76000×10^{14}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
SKHL Event type fe. Felt (II) at Malokurilskoe(80 km).
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=138.1.
MOS Event type fe. Error ellipse: s-maj=11.3km s-min=8.1km az=103.0. Felt (II) at Malokuril'skoye. Moment Tensor Solution.
IDC Error ellipse: s-maj=60.6km s-min=22.5km az=168.0.
(228) Near east coast of eastern Honshu
ISC VI 15 12 03 11.2–1.7 37.32N–.04 141.62E–.06 16–10 26 1-57
NIED VI 15 12 03 00 37.30N 141.60E 29 3.5W ¶17206181
IDC VI 15 12 03 09.2–1.8 37.32N 141.72E 0 3.6,3.6
ISCJB VI 15 12 03 10.2–1.0 37.29N–.03 141.70E–.06 19–7 3.6b,3.6
JMA VI 15 12 03 12.9–.10 37.34N 141.55E 33–2 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s64.00000°,δ37.00000°,λ-97.00000°. NP2:ϕ_s253.00000°,δ53.00000°,λ-85.00000°. $M_0$1.93000×10^{14}
IDC Error ellipse: s-maj=35.9km s-min=26.2km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.7km az=12.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(48) Baja California
ISC VI 15 12 29 06.7–1.1 31.27N–.03 115.66W–.02 3–9 144 0-24
MEX VI 15 12 29 07.8–.29 31.10N 115.60W 26–4 4.2 ¶16601824
ECX VI 15 12 29 07.0–.84 31.23N 115.68W 5 4.2L,4.0
NEIC VI 15 12 29 07.1 31.24N 115.67W 12 4.2,4.2L
ISC Event type fe.
MEX Error ellipse: s-maj=3.7km s-min=3.4km az=-1.0.
ECX Error ellipse: s-maj=2.6km s-min=2.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_s344.90000°,δ75.52000°,λ-26.57000°.
NEIC Event type fe. Felt at Lazaro Cardenas. After ECX.
(162) South Island
WEL VI 15 12 32 09.6–.10 43.57S 172.81E 8–0 3.5L
¶601027557
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Taranaki to Canterbury, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 15 12 48 26.7–.72 38.87N–.05 142.01E–.07 54–5 4.2b,3.0s 70 0-78
NIED VI 15 12 48 00 38.90N 141.90E 53 4.0W,3.0s ¶600641001
ISCJB VI 15 12 48 25.6–.54 38.90N–.03 141.97E–.06 58–4 4.2b,2.9s
MOS VI 15 12 48 26.0–1.0 38.99N 141.91E 58 4.7b,2.9s
JMA VI 15 12 48 26.8–.10 38.91N 141.94E 52–1 4.0,2.9s
IDC VI 15 12 48 28.4–.91 38.89N 141.95E 69–6 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ88.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ91.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.4km az=26.3.
MOS Error ellipse: s-maj=10.8km s-min=7.0km az=84.5.
JMA Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.9km az=107.0.
(162) South Island
WEL VI 15 13 12 43.5–.16 43.58S 172.79E 6–0 3.5L
¶16614391
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
(117) Southern Peru

ISC VI 15 14 16 53.3–.52 14.96S–.09 72.09W–.07 124 4.2b 57 4-159
SCB VI 15 14 16 47.5–.52 14.72S 72.08W 126 4.0L **¶16617369**
NEIC VI 15 14 16 49.5–.59 15.11S 72.05W 92–6 4.4b
IDC VI 15 14 16 51.9–1.9 14.97S 72.05W 109–15 4.3,4.1
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=12.9km s-min=9.0km az=133.0.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=58.0. Felt at Chivay.
IDC Error ellipse: s-maj=23.7km s-min=12.5km az=32.0.
(228) Near east coast of eastern Honshu
ISC VI 15 15 16 32.6–.58 38.35N–.04 142.30E–.05 27–3 4.2b,3.4s 129 1-89
NIED VI 15 15 16 00 38.30N 142.30E 41 4.1W,3.4s **¶600641122**
ISCJB VI 15 15 16 31.7–.59 38.28N–.03 142.39E–.05 38–4 4.2b,3.4s
MOS VI 15 15 16 31.5–.81 38.30N 142.34E 33 4.4b,3.4s
BJI VI 15 15 16 33.0 38.28N 142.17E 48 4.8b,4.6b
JMA VI 15 15 16 33.1–.20 38.32N 142.26E 39–2 4.2,4.6b
IDC VI 15 15 16 34.0–.81 38.27N 142.29E 37–5 4.1,4.0
NEIC VI 15 15 16 34.7–.54 38.31N 142.29E 46–4 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ13.00000°,λ-99.00000°. NP2:ϕ_s20.00000°,δ77.00000°,λ-88.00000°. $M_0$1.81000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.0km az=24.9.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=109.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=12.6km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=112.0. Recorded [2 JMA] in Miyagi.
(228) Near east coast of eastern Honshu
ISC VI 15 15 36 32.6–1.4 38.82N–.05 142.14E–.10 47–11 4.0b,3.2s 38 0-78
NIED VI 15 15 36 00 38.90N 142.10E 47 3.9W,3.2s **¶17206192**
ISCJB VI 15 15 36 31.5–.88 38.86N–.04 142.12E–.10 52–6 4.0b,3.3s
JMA VI 15 15 36 32.7–.10 38.85N 142.06E 46–1 3.8,3.3s
IDC VI 15 15 36 34.1–2.0 38.87N 142.10E 60–17 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ75.00000°. NP2:ϕ_s25.00000°,δ68.00000°,λ96.00000°. $M_0$7.64000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=5.8km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.9km s-min=12.0km az=95.0.
(228) Near east coast of eastern Honshu
ISC VI 15 15 56 42.7–.91 36.70N–.04 140.62E–.04 11–6 3.8b 46 0-91
NIED VI 15 15 56 00 36.70N 140.60E 5 3.7W **¶16614394**
ISCJB VI 15 15 56 42.0–.56 36.66N–.03 140.69E–.04 19–3 3.8b,2.5s
JMA VI 15 15 56 43.4 36.70N 140.58E 8–1 3.9,2.5s
IDC VI 15 15 56 46.7–2.5 36.68N 140.56E 39–23 4.3L,3.8
NEIC VI 15 15 56 46.8–.70 36.74N 140.55E 39–7 4.6b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ31.00000°,λ-80.00000°. NP2:ϕ_s173.00000°,δ59.00000°,λ-96.00000°. $M_0$4.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=30.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s8.00000°,δ44.00000°,λ-87.00000°. Principal axes: T Plg1.0000°,Azm276.0000°; N Plg2.0000°,Azm186.0000°; P Plg88.0000° ,Azm34.0000°
IDC Error ellipse: s-maj=19.5km s-min=15.4km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=9.1km s-min=6.4km az=125.0. Recorded [3 JMA] in Ibaraki.
(162) South Island
WEL VI 15 17 16 02.8–.08 43.63S 172.42E 13–1 3.6L
¶16614398
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
(662) Sakhalin Island
ISC VI 15 22 38 50.1–.69 53.89N–.05 143.25E–.05 11 3.6b,2.7s 27 0-62
ISCJB VI 15 22 38 47.4–.56 53.70N–.06 143.23E–.08 11 3.7b,2.8s **¶17206205**
IDC VI 15 22 38 49.7–1.7 54.14N 143.09E 0 3.8,3.6
MOS VI 15 22 38 50.0–3.0 53.80N 143.36E 29 4.1b,3.6
SKHL VI 15 22 38 51.2–.70 53.27N 143.28E 10–1 4.6b,3.4s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.6km az=149.1.
IDC Error ellipse: s-maj=46.9km s-min=19.7km az=164.0.
MOS Event type fe. Error ellipse: s-maj=23.8km s-min=13.2km az=76.5. Felt (II) at Oha, Nyvrovo. Moment Tensor Solution.
SKHL Event type fe. Felt (II) at Okha, Nyvrovo.
(192) New Britain region
ISC VI 16 00 03 37.6–.30 5.88S–.02 151.20E–.02 27–1 6.5s,6.0b 2088 2-166
ISCJB VI 16 00 03 33.2–.68 5.90S–.02 151.13E–.02 7–4 6.5s,5.9b **¶602918643**
IDC VI 16 00 03 33.5–.88 5.85S 151.19E 8–4 6.2,6.2s
BJI VI 16 00 03 34.5 6.00S 151.20E 20 6.4s,6.3
GCMT VI 16 00 03 35.8–.10 6.12S 151.21E 22 6.3W,6.3
NEIC VI 16 00 03 35.8–.11 5.93S 151.04E 16 6.5s,6.4W
MOS VI 16 00 03 36.9–1.3 5.88S 151.08E 35 6.4s,6.0b
NEIC VI 16 00 03 36.0–.00 5.99S 151.10E 25 6.4s,6.0b
DJA VI 16 00 03 41.9–.50 6S–2.0 151E–3.0 53–5 6.5b,6.3
NEIC VI 16 00 04 01.5–.00 5.55S 151.30E 26 6.5b,6.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=175.1.
IDC Error ellipse: s-maj=8.2km s-min=6.0km az=74.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c345; s147,c514;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.35±.02 $M_{\theta\theta}$-2.41±.01; $M_{\phi\phi}$2.06±.01; $M_{r\theta}$3.48±.03; $M_{\theta\phi}$0.56±.01; $M_{\theta r}$-1.25±.03; Best double couple: NP1:ϕ_s122.00000°,δ84.00000°,λ114.00000°. NP2:ϕ_s225.00000° ,δ25.00000°,λ15.00000°. Principal axes: T 3.2280,Plg46.0000°,Azm57.0000° ; N 1.7400,Plg24.0000°,Azm299.0000°; P -4.9700,Plg35.0000°,Azm192.0000° $M_0$4.09900×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.8km az=126.0. Felt at Kimbe. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$6.30000×10^{18} Moment Tensor Solution. s86 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.01 $M_{\theta\theta}$-0.76 $M_{\phi\phi}$0.77 $M_{r\theta}$2.34 $M_{\theta\phi}$-0.16 $M_{\phi r}$-0.53 Best double couple: NP1:ϕ_s107.00000°,δ87.00000°,λ103.00000°. NP2:ϕ_s209.00000° ,δ13.00000°,λ13.00000°. Principal axes: T 2.1700,Plg46.0000°,Azm30.0000° ; N 0.6000,Plg13.0000°,Azm286.0000°; P -2.7700,Plg41.0000°,Azm185.0000° $M_0$2.50000×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=4.9km az=96.4.
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{18}Nm; M_{rr}0.36 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$1.44 $M_{r\theta}$4.46 $M_{\theta\phi}$0.35 $M_{\phi r}$0.09 Best double couple: NP1:ϕ_s87.00000°,δ83.00000° ,λ84.00000°. NP2:ϕ_s311.00000°,δ9.00000°,λ134.00000°. Principal axes: T 3.9000,Plg51.0000°,Azm349.0000°; N 1.4200,Plg6.0000°,Azm87.0000° ; P -5.3200,Plg38.0000°,Azm182.0000° $M_0$4.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.08 $M_{\theta\theta}$-1.79 $M_{\phi\phi}$1.87 $M_{r\theta}$2.92 $M_{\theta\phi}$0.46 $M_{\phi r}$-2.05 Best double couple: NP1:ϕ_s225.00000° ,δ27.00000°,λ2.00000°. NP2:ϕ_s133.00000°,δ89.00000°,λ117.00000°. Principal axes: T 3.5200,Plg40.0000°,Azm68.0000°; N 0.8800,Plg27.0000°,Azm313.0000° ; P -4.4000,Plg38.0000°,Azm199.0000° $M_0$4.00000×10^{18}
(162) South Island
WEL VI 16 01 30 55.7–.13 43.59S 172.79E 8–0 3.8L
NEIC VI 16 01 30 55.6 43.59S 172.79E 9 3.8L **¶16614529**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
(228) Near east coast of eastern Honshu
ISC VI 16 02 19 00.3–1.5 36.50N–.05 140.96E–.06 8–9 3.9b 41 0-147
ISCJB VI 16 02 18 58.6–1.2 36.45N–.04 141.04E–.04 8–7 3.9b **¶16730628**
JMA VI 16 02 19 00.4 36.49N 140.95E 12–2 4.5
NIED VI 16 02 19 00 36.50N 141.00E 5 4.1W
NEIC VI 16 02 19 03.5–3.0 36.42N 140.88E 29–21 4.0b
IDC VI 16 02 19 04.5–3.1 36.40N 140.87E 37–27 3.9,3.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.8km az=159.1.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ45.00000°,λ-57.00000°. NP2:ϕ_s329.00000°,δ54.00000°,λ-118.00000°. $M_0$1.35000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=9.0km az=133.0. Recorded [1 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=21.8km s-min=16.2km az=75.0.
(162) South Island
WEL VI 16 03 38 28.1–.11 43.53S 172.74E 7–0 3.5L
¶601027585
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(472) New York
ISC VI 16 04 03 16.4–.93 44.49N–.02 74.33W–.02 15–6 79 0-5
ISCJB VI 16 04 03 15.8–.46 44.53N–.02 74.33W–.02 13–2 **¶16679623**
OTT VI 16 04 03 16.4–.21 44.49N 74.31W 18 2.6
NEIC VI 16 04 03 17.0 44.52N 74.28W 8 2.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.8km az=26.3.
OTT Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. 67km south from Huntingdon, Qc Western Quebec Seismic Zone.
NEIC Event type fe. Felt at Lake Clear, Paul Smiths, Saranac Lake and Vermontville. After LDO.
(228) Near east coast of eastern Honshu
JMA VI 16 06 48 29.8 38.73N 141.70E 52–1 3.5
NIED VI 16 06 48 00 38.70N 141.70E 65 3.6W **¶600641699**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ79.00000°,λ178.00000°. NP2:ϕ_s61.00000°,δ88.00000°,λ11.00000°. $M_0$2.52000×10^{14}
(228) Near east coast of eastern Honshu
ISC VI 16 06 53 02.1–.99 36.77N–.03 140.52E–.04 6–6 4.2b,3.6s 62 0-91
NIED VI 16 06 53 00 36.70N 140.70E 5 4.1W,3.6s **¶16603776**
IDC VI 16 06 53 01.2–1.1 36.85N 140.58E 0 4.2,4.0
JMA VI 16 06 53 01.9 36.72N 140.62E 5–1 4.2,4.0
ISCJB VI 16 06 53 01.3–.62 36.71N–.03 140.71E–.04 12–3 4.2b,3.4s
MOS VI 16 06 53 01.7–.94 36.45N 140.84E 33 4.4b,3.4s
NEIC VI 16 06 53 05.3–1.9 36.86N 140.53E 25–14 4.4b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ32.00000°,λ-82.00000°. NP2:ϕ_s140.00000°,δ58.00000°,λ-95.00000°. $M_0$1.40000×10^{15}
IDC Error ellipse: s-maj=26.3km s-min=17.8km az=151.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ54.00000°,λ-79.00000°. NP2:ϕ_s147.00000°,δ38.00000°,λ-105.00000°. Principal axes: T Plg8.0000°,Azm67.0000°; N Plg9.0000°,Azm158.0000°; P Plg78.0000° ,Azm296.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=34.5.
MOS Error ellipse: s-maj=11.5km s-min=7.5km az=117.9.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.2km az=141.0. Recorded [3 JMA] in Ibaraki.
(228) Near east coast of eastern Honshu
JMA VI 16 06 59 07.3 38.45N 141.85E 56–1 3.6
¶600641702
JMA Event type fe.
(448) Gaspe Peninsula
OTT VI 16 07 20 40.2–.11 48.27N 69.65W 23 3.8
NEIC VI 16 07 20 40.2 48.27N 69.65W 23 3.8 **¶16621485**
OTT Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 21km southwest from Les Escoumins, Qc. Felt Felt in Les Escoumins, Riviere-du-Loup, Sacre-Coeur, Tadoussac, Trois-Pistoles, Cacouna, Les Bergeronnes, Chicoutimi, La Malbaie, L''Anse-Saint-Jean, LaSalle, Longue-Rive, Mascouche, Notre-Dame- du-Portage, Saint-Alexandre-de-Kamouraska, Saint-Eloi, Saint-Simeon, St-Arsene, St-Clements, and St-Urbain, Qc.
NEIC Event type fe. Felt in the Chicoutimi-Longue-Rive-Saint-Urbain area. Also felt at Cacouna, LaSalle, Mascouche, Montreal, Notre-Dame-du-Portage, Riviere-du-Loup, Saint-Alexandre-de-Kamouraska, Saint-Arsene, Saint-Clements, Saint-Eloi and Trois-Pistoles. Felt at Jackman, Maine. After OTT.
(254) Panay
MAN VI 16 07 30 20 10.71N 122.33E 1 4.7b,3.6L
¶601654305
MAN Event type fe. INTENSITY III - ILOILO CITY.
(162) South Island
WEL VI 16 09 29 48.8–.25 43.66S 172.82E 8–0 3.7L
¶16614737
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.1km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 5.
(229) Off east coast of Honshu
ISC VI 16 10 09 08.1–.49 39.75N–.04 143.39E–.03 15–2 5.0b,4.5s 514 1-146
NIED VI 16 10 09 00 39.70N 143.70E 14 4.8W,4.5s **¶16614738**
IDC VI 16 10 09 05.0–.52 39.66N 143.50E 0 4.7,4.7
JMA VI 16 10 09 05.6–.20 39.81N 143.60E 17–4 4.9,4.7
BJI VI 16 10 09 05.4 39.73N 143.36E 13 5.0b,5.0b
ISCJB VI 16 10 09 07.8–.72 39.79N–.02 143.32E–.03 20–4 4.8b,4.4s
GCMT VI 16 10 09 09.7–.50 39.77N 143.56E 15 5.0W,4.4s
NEIC VI 16 10 09 09.7–.79 39.80N 143.20E 19–4 5.0b,4.4s
MOS VI 16 10 09 09.4–.93 39.94N 143.20E 26 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ16.00000°,λ49.00000°. NP2:ϕ_s33.00000°,δ78.00000°,λ101.00000°. $M_0$1.78000×10^{16}
IDC Error ellipse: s-maj=14.9km s-min=11.3km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=151.3.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s67,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.85±.07 $M_{\theta\theta}$-0.07±.06; $M_{\phi\phi}$-0.77±.05; $M_{r\theta}$1.71±.19; $M_{\theta\phi}$-0.17±.04; $M_{\phi r}$3.24±.19; Best double couple: NP1:ϕ_s27.00000°,δ84.00000° ,λ93.00000°. NP2:ϕ_s182.00000°,δ7.00000°,λ65.00000°. Principal axes: T 3.7960,Plg51.0000°,Azm301.0000°; N -0.0800,Plg3.0000°,Azm207.0000° ; P -3.7170,Plg39.0000°,Azm115.0000° $M_0$3.75700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.4km az=145.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=112.9.
(196) Irian Jaya region
ISC VI 16 12 24 39.2–.86 1.4S–.10 134.37E–.10 29 4.0b 12 3-86
IDC VI 16 12 24 35.3–1.1 1.37S 134.43E 0 4.3L,4.2 **¶16730720**
ISCJB VI 16 12 24 37.5–.78 1.43S–.09 134.36E–.08 29 3.9b,4.2
NEIC VI 16 12 24 40.3–.60 1.42S 134.52E 35 3.9b,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=40.2km s-min=19.2km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=8.8km az=36.1.
NEIC Event type fe. Error ellipse: s-maj=17.4km s-min=10.2km az=80.0. Felt [III] at Ransiki.
(232) Western Honshu
ISC VI 16 14 32 21.9–1.0 35.07N–.03 132.65E–.03 6–8 3.4b 23 0-58
NIED VI 16 14 32 00 35.10N 132.70E 8 3.8W **¶603244148**
ISCJB VI 16 14 32 20.9–.50 35.09N–.03 132.65E–.04 12–3 3.3b,3.0s
IDC VI 16 14 32 20.9–.98 35.04N 132.69E 0 3.6,3.4
JMA VI 16 14 32 21.1 35.10N 132.67E 9–1 3.9,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ78.00000°,λ-179.00000°. NP2:ϕ_s161.00000°,δ89.00000°,λ-12.00000°. $M_0$4.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.8km az=37.8.
IDC Error ellipse: s-maj=21.5km s-min=13.3km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s74.00000°,δ76.00000°,λ-161.00000°. NP2:ϕ_s339.00000°,δ72.00000°,λ-15.00000°. Principal axes: T Plg3.0000°,Azm206.0000°; N Plg67.0000°,Azm109.0000°; P Plg23.0000° ,Azm297.0000°
(228) Near east coast of eastern Honshu
ISC VI 16 14 38 42.0–1.8 36.96N–.04 141.88E–.05 28–12 4.2b,3.1s 87 1-146
NIED VI 16 14 38 00 37.00N 141.80E 29 4.0W,3.1s **¶600641912**
IDC VI 16 14 38 38.2–.63 36.92N 141.85E 0 4.2,4.2
ISCJB VI 16 14 38 39.4–.90 36.95N–.03 141.91E–.04 23–6 4.1b,3.1s
MOS VI 16 14 38 41.5–1.2 37.05N 141.81E 33 4.4b,3.1s
JMA VI 16 14 38 42.7–.20 36.96N 141.71E 49–3 4.3,3.1s
NEIC VI 16 14 38 43.0–.55 36.93N 141.93E 35 4.3b,3.1s
BJI VI 16 14 38 43.5 36.86N 141.23E 20 4.8b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ41.00000°,λ-69.00000°. NP2:ϕ_s329.00000°,δ52.00000°,λ-108.00000°. $M_0$1.31000×10^{15}

IDC Error ellipse: s-maj=17.7km s-min=13.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=23.4.
MOS Error ellipse: s-maj=10.2km s-min=7.1km az=97.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=9.1km az=126.0. Recorded [2 JMA] in Fukushima.

(162) South Island

WEL	**VI**	**16 15 41 26.9–.08**	**43.59S**	**172.73E**	**8–0**	**3.5L**		**¶16628211**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

ISC	**VI**	**16 18 37 25.8–1.2**	**43.60S–.04**	**172.83E–.04**	**13–7**		**176**	**0-149**
ISCJB	VI	16 18 37 24.3–.61	43.67S–.03	172.94E–.03	15–5	4.0b,3.3s		**¶16628213**
IDC	VI	16 18 37 25.6–1.4	43.39S	172.72E	0	4.3,4.1		
WEL	VI	16 18 37 27.3–.11	43.60S	172.74E	10–0	4.5L,4.1		
NEIC	VI	16 18 37 27.3	43.59S	172.79E	5	4.4L,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=2.9km az=147.7.
IDC Error ellipse: s-maj=46.0km s-min=15.0km az=158.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in the Christchurch area. After WEL.

(228) Near east coast of eastern Honshu

ISC	**VI**	**16 19 00 13.5–.51**	**35.32N–.03**	**141.17E–.04**	**23–3**	**5.1b,4.3s**	**686**	**0-151**
NIED	VI	16 19 00 00	35.40N	141.30E	20	4.9W,4.3s		**¶16621491**
BJI	VI	16 19 00 09.9	35.23N	141.17E	19	4.8b,4.7b		
IDC	VI	16 19 00 10.4–.42	35.35N	141.18E	0	4.8,4.8		
ISCJB	VI	16 19 00 13.4–.54	35.27N–.02	141.14E–.02	31–3	5.0b,4.1s		
JMA	VI	16 19 00 13.2–.10	35.42N	141.29E	31–2	4.9,4.1s		
MOS	VI	16 19 00 14.0–1.1	35.29N	141.01E	33	5.2b,4.1s		
GCMT	VI	16 19 00 16.3–.50	35.22N	141.22E	12	4.9W,4.1s		
NEIC	VI	16 19 00 16.3–.57	35.28N	141.02E	38–5	5.1b,4.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ29.00000°,λ0.00000°. NP2:ϕ_s314.00000°,δ90.00000°,λ-119.00000°. $M_0$2.74000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=9.2km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=172.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=4.5km az=117.9.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c29; s60,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.42±.11 $M_{\theta\theta}$-1.81±.09; $M_{\phi\phi}$0.38±.07; $M_{r\theta}$1.16±.23; $M_{\theta\phi}$0.76±.06; $M_{\phi r}$-2.10±.24; Best double couple: NP1:ϕ_s140.00000°,δ75.00000°,λ116.00000°. NP2:ϕ_s259.00000°,δ29.00000°,λ32.00000°. Principal axes: T 3.1100,Plg53.0000°,Azm81.0000°; N -0.2120,Plg25.0000°,Azm313.0000°; P -2.9000,Plg26.0000°,Azm210.0000° $M_0$3.00500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=106.0. Felt at Chiba and Narita. Recorded [2 JMA] in Chiba and Ibaraki.

(14) Kenai Peninsula

ISC	**VI**	**16 19 06 05.0–.29**	**60.77N–.03**	**151.15W–.03**	**70–2**	**5.0b**	**786**	**0-171**
BJI	VI	16 19 06 02.7	60.73N	151.73W	64	5.2b,5.0b		**¶16621492**
MOS	VI	16 19 06 03.3–.91	60.89N	151.27W	69	5.2b,4.3s		
ISCJB	VI	16 19 06 03.6–.15	60.85N–.01	151.20W–.02	70–1	4.9b,4.3s		
IDC	VI	16 19 06 05.7–.53	60.88N	151.25W	77–3	4.7,4.5		
NEIC	VI	16 19 06 05.2	60.77N	151.08W	59	5.2L,5.1b		
GCMT	VI	16 19 06 05.2–.20	60.79N	151.23W	74–2	5.1W,5.1b		

ISC Event type fe.
MOS Error ellipse: s-maj=9.9km s-min=5.2km az=93.5.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=13.4.
IDC Error ellipse: s-maj=11.5km s-min=8.2km az=172.0.
NEIC Event type fe. Felt [IV] at Anchorage, Cooper Landing, Ninilchik, Soldotna and Sterling. Felt widely in the Kenai Peninsula-Cook Inlet area. After AEIC. Moment Tensor Solution. s58 Moment tensor: Scale 10^{16}Nm; M_{rr}0.17 $M_{\theta\theta}$-3.62 $M_{\phi\phi}$3.45 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.31 Best double couple: NP1:ϕ_s312.00000°,δ71.00000°,λ171.00000°. NP2:ϕ_s45.00000°,δ81.00000°,λ19.00000°. Principal axes: T 3.9100,Plg19.0000°,Azm270.0000°; N -0.2300,Plg69.0000°,Azm69.0000°; P -3.6800,Plg7.0000°,Azm177.0000° $M_0$3.80000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c77; s88,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.66±.14 $M_{\theta\theta}$-5.01±.15; $M_{\phi\phi}$4.35±.13; $M_{r\theta}$-0.12±.12; $M_{\theta\phi}$-0.65±.12; $M_{\phi r}$2.08±.09; Best double couple: NP1:ϕ_s44.00000°,δ73.00000°,λ18.00000°. NP2:ϕ_s308.00000°,δ73.00000°,λ163.00000°. Principal axes: T 5.3250,Plg24.0000°,Azm266.0000°; N -0.2730,Plg66.0000°,Azm85.0000°; P -5.0550,Plg0.0000°,Azm176.0000° $M_0$5.19000×10^{16}

(228) Near east coast of eastern Honshu

ISC	**VI**	**17 00 14 01.2–1.9**	**39.06N–.04**	**142.45E–.06**	**4–11**	**4.1b**	**46**	**1-88**
IDC	VI	17 00 13 59.9–.79	38.95N	142.51E	0	4.0,3.9b		**¶16714861**
NIED	VI	17 00 14 00	39.00N	142.40E	29	3.7W,3.9b		
JMA	VI	17 00 14 03.8–.10	39.07N	142.41E	32–1	4.0,3.9b		
NEIC	VI	17 00 14 06.8–.77	39.05N	142.51E	48–6	4.4b,3.9b		

ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=17.3km az=87.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ37.00000°,λ-91.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ-89.00000°. $M_0$3.76000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=5.7km az=120.0. Recorded [1 JMA] in Iwate and Miyagi.

(276) Sunda Strait

ISC	**VI**	**17 01 15 36.2–.68**	**6.90S–.04**	**104.73E–.05**	**42–5**	**4.8b,3.7s**	**293**	**3-151**
IDC	VI	17 01 15 32.1–.41	6.41S	105.00E	0	4.7,4.7		**¶16621506**
BJI	VI	17 01 15 33.4	7.00S	104.60E	31	4.9b,4.7b		
ISCJB	VI	17 01 15 33.1–1.2	6.74S–.04	104.82E–.04	23–8	4.8b,3.7s		
NEIC	VI	17 01 15 34.8–.77	6.96S	104.68E	36–6	5.0b,3.7s		
KLM	VI	17 01 15 35.4	7.00S	104.64E	29	5.9s,4.9b		
MOS	VI	17 01 15 35.6–1.2	6.31S	105.20E	33	5.0b,4.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.7km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.0km az=42.6.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=5.5km az=220.0. Felt [II] at Bandar Lampung, Sumatra.
MOS Error ellipse: s-maj=10.9km s-min=5.6km az=117.2.

(135) Near coast of central Chile

ISC	**VI**	**17 01 52 12.5–1.9**	**30.78S–.05**	**71.52W–.07**	**1–13**	**4.2b**	**43**	**1-151**
IDC	VI	17 01 52 12.2–1.2	30.84S	71.49W	0	4.1b,4.0		**¶16713631**
GUC	VI	17 01 52 15.7–.68	30.62S	71.50W	37–6	4.0L,4.0		
NEIC	VI	17 01 52 15.0	30.62S	71.50W	37	4.0b,4.0L		

ISC Event type fe.
IDC Error ellipse: s-maj=31.1km s-min=24.1km az=122.0.
GUC Error ellipse: s-maj=1.4km s-min=7.6km az=-1.0.
NEIC Event type fe. Felt [II] at Coquimbo, La Higuera, Ovalle and Vicuna. After GUC.

(162) South Island

ISC	**VI**	**17 02 39 11.3–.83**	**43.57S–.03**	**172.77E–.04**	**15–5**	**4.3s,4.0b**	**102**	**0-153**
ISCJB	VI	17 02 39 09.7–.48	43.60S–.03	172.83E–.04	15–3	4.3b,4.0s		**¶16631888**
NEIC	VI	17 02 39 11.5	43.53S	172.76E	6	4.4L,4.2W		
WEL	VI	17 02 39 11.7–.08	43.53S	172.75E	5–0	4.4L,4.2W		
IDC	VI	17 02 39 11.4–1.4	43.23S	172.60E	0	4.2,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.1km az=42.3.
NEIC Event type fe. Felt in the Christchurch area. After WEL. Moment Tensor Solution. s24 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.35 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$0.43 $M_{r\theta}$0.67 $M_{\theta\phi}$-2.47 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s274.00000°,δ82.00000°,λ-164.00000°. NP2:ϕ_s182.00000°,δ74.00000°,λ-9.00000°. Principal axes: T 2.6900,Plg5.0000°,Azm47.0000°; N -0.1700,Plg72.0000°,Azm301.0000°; P -2.5200,Plg17.0000°,Azm139.0000° $M_0$2.60000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
IDC Error ellipse: s-maj=43.2km s-min=13.7km az=149.0.

(162) South Island

ISC	**VI**	**17 04 21 56.1–1.0**	**43.62S–.04**	**172.88E–.04**	**13–6**		**120**	**0-153**
IDC	VI	17 04 21 55.4–1.3	43.42S	172.83E	0	4.4,4.1		**¶16628221**
WEL	VI	17 04 21 57.6–.08	43.61S	172.77E	9–0	4.6L,4.1		
NEIC	VI	17 04 21 57.6	43.60S	172.77E	8	4.5L,4.1		

ISC Event type fe.
IDC Error ellipse: s-maj=45.3km s-min=25.5km az=160.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.

(162) South Island

WEL	**VI**	**17 04 39 15.0–.14**	**43.60S**	**172.77E**	**8–0**	**3.8L**		
NEIC	VI	17 04 39 14.9	43.60S	172.78E	8	3.9L		**¶16628222**

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.

(383) Northwestern Balkan Peninsula

ISC	**VI**	**17 05 31 06.4–1.1**	**43.82N–.02**	**16.43E–.02**	**15–7**	**4.2b**	**534**	**1-71**
PDG	VI	17 05 31 04.9–.55	43.76N	16.55E	5–1	4.2,4.1L		**¶16631889**
LDG	VI	17 05 31 04.9–.07	43.78N	16.51E	2	4.0L,4.1L		
MOS	VI	17 05 31 04.3–1.0	43.78N	16.42E	12	4.3b,4.1L		
CSEM	VI	17 05 31 05.4–.08	43.79N	16.51E	2	4.2L,4.1L		
NEIC	VI	17 05 31 06.4–.37	43.80N	16.45E	10	4.6b,4.2L		
PRU	VI	17 05 31 06.2	43.83N	16.76E	0	4.6,4.2L		
BEO	VI	17 05 31 06.3–.29	43.86N	16.53E	0	3.9,4.2L		
IDC	VI	17 05 31 09.6–1.2	43.86N	16.60E	40–12	3.8,3.8		

ISC Event type fe.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=54.0.
MOS Error ellipse: s-maj=5.5km s-min=4.1km az=92.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=36.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=5.1km az=63.0. Felt at Split.
BEO Event type ke.
IDC Error ellipse: s-maj=12.5km s-min=9.7km az=49.0.

(558) Ethiopia

ISC	**VI**	**17 09 16 12.0–.47**	**13.26N–.03**	**41.69E–.03**	**7–2**	**5.4b,5.4s**	**1549**	**2-175**
BJI	VI	17 09 16 08.5	13.22N	41.59E	4	5.8s,5.6		**¶16621538**
DHMR	VI	17 09 16 08.7–1.3	13.30N	41.85E	12–12	5.5L,5.6		
ISCJB	VI	17 09 16 10.6–.16	13.25N–.02	41.71E–.01	11	5.3b,5.3s		
IDC	VI	17 09 16 10.3–.46	13.20N	41.71E	0	5.3s,5.3b		
MOS	VI	17 09 16 10.8–.85	13.30N	41.70E	10	5.7b,5.2s		
STR	VI	17 09 16 11.3–.00	13.32N	41.80E		5.4b,5.2s		
CSEM	VI	17 09 16 11.0–.11	13.26N	41.75E	2	5.6W,5.4s		
NEIC	VI	17 09 16 12.6–.20	13.30N	41.73E	10	5.6W,5.5b		
GCMT	VI	17 09 16 12.6–.10	13.46N	41.76E	12	5.6W,5.5b		
DSN	VI	17 09 16 12.0–.02	13.17N	42.14E	10	5.7b,5.5b		

ISC Event type fe.
DHMR Error ellipse: s-maj=7.2km s-min=11.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=16.0.
IDC Error ellipse: s-maj=12.8km s-min=8.7km az=57.0.
MOS Error ellipse: s-maj=7.7km s-min=3.4km az=95.4.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=16.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.5km az=219.0. Felt at Asmera, Eritrea, at Mek'ele, Ethiopia and at Al Hudaydah, Yemen. Moment Tensor Solution. s40 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$-0.37 $M_{\phi\phi}$0.28 $M_{r\theta}$-0.52 $M_{\theta\phi}$-2.57 $M_{\phi r}$-1.46 Best double couple: NP1:ϕ_s3.00000°,δ87.00000°,λ-29.00000°. NP2:ϕ_s95.00000°,δ61.00000°,λ-176.00000°. Principal axes: T 2.7800,Plg18.0000°,Azm53.0000°; N 0.4300,Plg61.0000°,Azm177.0000°; P -3.2100,Plg23.0000°,Azm315.0000° $M_0$3.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c186; s129,c337;Duration: 1⅋6 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.62±.03 $M_{\theta\theta}$-0.86±.04; $M_{\phi\phi}$1.47±.04; $M_{r\theta}$-0.61±.09; $M_{\theta\phi}$-3.11±.03; $M_{\phi r}$0.17±.09; Best double couple: NP1: ϕ_s101.00000°,δ88.00000°,λ-169.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ-2.00000°. Principal axes: T 3.6820,Plg6.0000°,Azm235.0000°; N -0.6050,Plg79.0000°,Azm111.0000°; P -3.0810,Plg9.0000°,Azm326.0000° $M_0$3.38200×10^{17}
DSN Error ellipse: s-maj=3.3km s-min=1.1km az=303.0.

(233) Near south coast of western Honshu

ISC	**VI**	**17 10 33 20.7–.97**	**33.83N–.04**	**135.33E–.03**	**49–7**		**35**	**0-53**
ISCJB	VI	17 10 33 19.5–.48	33.82N–.04	135.34E–.03	57–5	3.3b		**¶17206381**
JMA	VI	17 10 33 20.9	33.86N	135.37E	51–1	3.4		
IDC	VI	17 10 33 20.8–1.9	33.75N	135.36E	46–27	3.6,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=175.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s176.00000°,δ67.00000°,λ-48.00000°. NP2:ϕ_s289.00000°,δ47.00000°,λ-148.00000°. Principal axes: T Plg12.0000°,Azm237.0000°; N Plg39.0000°,Azm337.0000°; P Plg49.0000°,Azm133.0000°
IDC Error ellipse: s-maj=32.7km s-min=22.7km az=14.0.

(222) East of Kuril Islands

ISC	**VI**	**17 10 39 37.2–.25**	**48.54N–.03**	**156.19E–.03**	**41–1**	**5.3b,5.0s**	**1568**	**2-157**
KRSC	VI	17 10 39 32.5–3.2	48.39N	156.48E	101–47	6.0L,5.0s		**¶16621539**
ISCJB	VI	17 10 39 33.6–.61	48.50N–.02	156.32E–.02	29–4	5.3b,4.9s		
BJI	VI	17 10 39 33.5	48.45N	156.45E	40	5.3b,5.3b		
MOS	VI	17 10 39 35.2–1.0	48.55N	156.27E	40	5.5b,4.8s		
SKHL	VI	17 10 39 35.3–.70	48.42N	156.37E	52–8	6.4s,5.7b		
IDC	VI	17 10 39 40.0–.38	48.60N	156.13E	65–3	5.1,5.0		
GCMT	VI	17 10 39 39.8–.10	48.54N	156.33E	35–0	5.4W,5.0		
NEIC	VI	17 10 39 39.8–.08	48.60N	156.20E	65	5.3b,5.0		

ISC Event type fe.
KRSC Event type se. FELT [II] at lighthouse Krugliy.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=155.1.
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=2.7km az=84.9. Felt (III) Severo-Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (III) at Severo-Kurilsk(250 km).
IDC Error ellipse: s-maj=9.7km s-min=8.0km az=126.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s100,c169; s126,c226; Duration: 1⅋2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10±.03 $M_{\theta\theta}$0.28±.02; $M_{\phi\phi}$-1.38±.02; $M_{r\theta}$-0.56±.03; $M_{\theta\phi}$-0.35±.01; $M_{\phi r}$0.77±.03; Best double couple: NP1:ϕ_s345.00000°,δ64.00000°,λ61.00000°. NP2:ϕ_s218.00000°,δ38.00000°,λ136.00000°. Principal axes: T 1.6230,Plg59.0000°,Azm212.0000°; N -0.0020,Plg26.0000°,Azm359.0000°; P -1.6190,Plg14.0000°,Azm96.0000° $M_0$1.62100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=155.0. Felt [III] at Severo-Kuril'sk. Also felt at Petropavlovsk-Kamchatskiy.

(236) Shikoku

ISC	**VI**	**17 12 09 07.1–.64**	**32.69N–.05**	**132.13E–.03**	**41–5**	**3.8b,3.4s**	**42**	**0-76**
NIED	VI	17 12 09 00	32.70N	132.20E	32	4.2W,3.4s		**¶17206386**
ISCJB	VI	17 12 09 06.5–.39	32.71N–.04	132.13E–.04	55–3	3.8b,3.4s		
IDC	VI	17 12 09 06.4–.78	32.91N	132.31E	39–5	3.9,3.8		
JMA	VI	17 12 09 07.3	32.68N	132.13E	37–1	4.1,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ34.00000°,λ-116.00000°. NP2:ϕ_s13.00000°,δ60.00000°,λ-74.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=153.9.
IDC Error ellipse: s-maj=25.4km s-min=13.1km az=55.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s10.00000°,δ71.00000°,λ-78.00000°. NP2:ϕ_s157.00000°,δ22.00000°,λ-121.00000°. Principal axes: T Plg25.0000°,Azm91.0000°; N Plg11.0000°,Azm186.0000°; P Plg62.0000°,Azm298.0000°

(228) Near east coast of eastern Honshu

ISC	**VI**	**17 14 21 02.8–1.4**	**36.57N–.04**	**140.84E–.06**	**15–7**	**3.7b**	**23**	**0-79**
IDC	VI	17 14 20 58.4–1.7	36.62N	141.18E	0	3.7,3.6		**¶17206392**
ISCJB	VI	17 14 20 59.3–1.1	36.49N–.04	141.06E–.06	5–5	3.6b,3.3s		
NIED	VI	17 14 21 00	36.50N	140.90E	5	3.7W,3.3s		
JMA	VI	17 14 21 01.4	36.51N	140.93E	16–1	3.7,3.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=20.2km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.9km az=9.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ30.00000°,λ-78.00000°. NP2:ϕ_s165.00000°,δ61.00000°,λ-97.00000°. $M_0$3.70000×10^{14}
JMA Event type fe.

(45) California-Baja California border region

ISC	**VI**	**17 17 38 49.8–.83**	**32.98N–.02**	**116.27W–.02**	**15–6**		**109**	**0-8**

ISCJB VI 17 17 38 50.3–.23 32.98N–.02 116.30W–.02 21–3 ¶16915488
ECX VI 17 17 38 51.5–.60 32.98N 116.36W 7 3.7L,3.6
MEX VI 17 17 38 51.0–.76 33.00N 116.35W 8 3.5,3.6
NEIC VI 17 17 38 51.0 33.00N 116.35W 8 3.6L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.3km az=137.0.
ECX Error ellipse: s-maj=2.1km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=27.1km s-min=21.4km az=-1.0.
NEIC Event type fe. Felt [III] at Descanso and [II] at Alpine, El Cajon, Lakeside, La Mesa, Pine Valley, Poway, Ramona and San Diego. Felt widely in San Diego County. After PAS.

(162) South Island

ISC VI 17 18 50 50.2–1.0 43.64S–.04 172.81E–.03 12–6 128 0-149
ISCJB VI 17 18 50 48.5–.59 43.65S–.03 172.94E–.04 14–4 3.7b ¶16631890
WEL VI 17 18 50 51.0–.13 43.58S 172.81E 6–0 4.5L
IDC VI 17 18 50 50.8–1.6 43.23S 172.56E 0 4.1,3.9
NEIC VI 17 18 50 51.3 43.58S 172.78E 6 4.5L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.0km az=140.4.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=44.6km s-min=15.0km az=148.0.
NEIC Event type fe. Felt at Christchurch. After WEL.

(228) Near east coast of eastern Honshu

ISC VI 17 19 21 54.9–.74 36.31N–.06 140.49E–.07 104–6 4.1b 33 0-148
NIED VI 17 19 21 00 36.30N 140.30E 101 4.1W ¶17206407
ISCJB VI 17 19 21 54.0–.63 36.26N–.05 140.42E–.09 110–4 4.0b
IDC VI 17 19 21 55.8–1.7 36.21N 140.35E 107–15 4.1,3.8
JMA VI 17 19 21 56.1–.10 36.28N 140.30E 101–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ45.00000°,λ-138.00000°. NP2:ϕ_s238.00000°,δ62.00000°,λ-53.00000°. $M_0$1.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=7.7km az=165.1.
IDC Error ellipse: s-maj=23.4km s-min=10.2km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s220.00000°,δ50.00000°,λ-87.00000°. NP2: ϕ_s35.00000°,δ40.00000°,λ-94.00000°. Principal axes: T Plg5.0000°,Azm308.0000° ; N Plg3.0000°,Azm38.0000°; P Plg84.0000°,Azm153.0000°

(227) Eastern Honshu

ISC VI 17 19 48 22.7–2.0 36.20N–.08 137.58E–.06 5–14 13 0-60
NIED VI 17 19 48 00 36.20N 137.40E 11 3.7W ¶16631482
ISCJB VI 17 19 48 23.2–1.3 36.10N–.08 137.47E–.05 9–8 3.3b
JMA VI 17 19 48 24.4 36.16N 137.44E 7–1 3.8
IDC VI 17 19 48 26.6–2.2 36.24N 137.56E 33–28 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ86.00000°,λ3.00000°. NP2:ϕ_s252.00000°,δ87.00000°,λ176.00000°. $M_0$4.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.5km az=166.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s69.00000°,δ75.00000°,λ165.00000°. NP2:ϕ_s163.00000°,δ75.00000°,λ15.00000°. Principal axes: T Plg21.0000°,Azm26.0000°; N Plg69.0000°,Azm206.0000°; P Plg0.0000° ,Azm116.0000°
IDC Error ellipse: s-maj=30.7km s-min=10.0km az=59.0.

(228) Near east coast of eastern Honshu

ISC VI 17 20 13 04.4–1.1 40.13N–.04 142.07E–.08 62–7 3.5b 28 0-64
NIED VI 17 20 13 00 40.10N 142.10E 71 3.4W ¶17206413
ISCJB VI 17 20 13 03.2–.71 40.14N–.04 142.11E–.09 68–5 3.4b
JMA VI 17 20 13 04.5 40.15N 142.06E 60–1 3.7
IDC VI 17 20 13 04.6–2.3 40.14N 142.32E 77–23 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ32.00000°,λ33.00000°. NP2:ϕ_s236.00000°,δ73.00000°,λ118.00000°. $M_0$1.59000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=6.1km az=1.2.
JMA Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=16.6km az=91.0.

(238) Ryukyu Islands

ISC VI 17 21 32 40.9–.33 26.59N–.03 126.34E–.03 124–2 4.8b 355 0-97
NIED VI 17 21 32 00 26.50N 126.40E 107 4.7W ¶16714865
BJI VI 17 21 32 35.7 26.31N 126.64E 119 4.7b,4.6b
ISCJB VI 17 21 32 38.9–.17 26.55N–.02 126.36E–.02 121–2 4.7b,4.6b
JMA VI 17 21 32 40.3–.20 26.56N 126.36E 114–2 4.4,4.6b
IDC VI 17 21 32 41.0–.43 26.66N 126.30E 125–3 4.6,4.3
NEIC VI 17 21 32 40.8–.37 26.60N 126.24E 123–3 4.8b,4.3
MOS VI 17 21 32 42.0–.90 26.61N 126.25E 151 4.6b,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ15.00000°,λ128.00000°. NP2:ϕ_s260.00000°,δ78.00000°,λ80.00000°. $M_0$1.27000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=142.7.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=7.5km az=75.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=117.0. Felt on Okinawa. Recorded [1 JMA] in the Kerama-retto and on Kume-jima and Tonaki-jima.
MOS Error ellipse: s-maj=8.9km s-min=4.9km az=99.1.

(228) Near east coast of eastern Honshu

ISC VI 18 00 13 37.3–1.4 36.90N–.06 141.2E–.10 21–5 3.5b 24 0-57
NIED VI 18 00 13 00 36.90N 141.10E 35 3.4W ¶17206425
IDC VI 18 00 13 33.0–1.9 37.15N 141.45E 0 3.5,3.5b
JMA VI 18 00 13 40.6–.10 36.94N 141.06E 51–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ17.00000°,λ96.00000°. NP2:ϕ_s22.00000°,δ73.00000°,λ88.00000°. $M_0$1.28000×10^{14}
IDC Error ellipse: s-maj=41.4km s-min=28.0km az=63.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

JMA VI 18 00 17 44.4 36.91N 140.67E 7–1 3.5 ¶600643130
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s225.00000°,δ54.00000°,λ-69.00000°. NP2:ϕ_s13.00000°,δ41.00000°,λ-116.00000°. Principal axes: T Plg7.0000°,Azm301.0000°; N Plg17.0000°,Azm33.0000°; P Plg72.0000° ,Azm189.0000°

(115) Near coast of Peru

NEIC VI 18 00 50 21.0 15.66S 74.44W 68 4.0b ¶602918661
NEIC Event type fe. Felt [II] at Chala. After ARE.

(228) Near east coast of eastern Honshu

ISC VI 18 01 40 20.0–1.3 38.31N–.04 141.94E–.09 50–12 3.7b 37 0-146
NIED VI 18 01 40 00 38.40N 141.80E 59 3.8W ¶17206429
ISCJB VI 18 01 40 19.6–.77 38.32N–.03 141.87E–.08 60–6 3.7b
JMA VI 18 01 40 20.7–.10 38.35N 141.80E 57–1 3.8
IDC VI 18 01 40 21.9–3.5 38.30N 141.88E 68–30 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ48.00000°,λ42.00000°. NP2:ϕ_s222.00000°,δ60.00000°,λ129.00000°. $M_0$4.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.1km az=17.2.
JMA Event type fe.
IDC Error ellipse: s-maj=28.1km s-min=16.8km az=76.0.

(45) California-Baja California border region

ISC VI 18 02 21 29.7–1.1 32.58N–.03 115.62W–.02 6–10 53 0-7
ISCJB VI 18 02 21 30.5–.47 32.54N–.03 115.63W–.02 13–3 ¶16713638
NEIC VI 18 02 21 31.6 32.56N 115.67W 14 3.0L
MEX VI 18 02 21 31.7–.82 32.70N 115.56W 17–97 3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=15.2.
NEIC Event type fe. Felt at El Centro, California. After PAS.
MEX Error ellipse: s-maj=90.1km s-min=77.7km az=-1.0.

(228) Near east coast of eastern Honshu

JMA VI 18 04 33 22.4 36.68N 140.62E 12 3.8
NIED VI 18 04 33 00 36.70N 140.60E 11 3.5W ¶16631483
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s315.00000°,δ60.00000°,λ-93.00000°. NP2:ϕ_s141.00000°,δ30.00000°,λ-85.00000°. Principal axes: T Plg15.0000°,Azm47.0000°; N Plg3.0000°,Azm316.0000°; P Plg75.0000° ,Azm216.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ44.00000°,λ-34.00000°. NP2:ϕ_s282.00000°,δ67.00000°,λ-128.00000°. $M_0$2.14000×10^{14}

(227) Eastern Honshu

ISC VI 18 04 39 04.7–.56 37.05N–.03 140.70E–.03 16–3 4.5b,3.7s 230 0-147
NIED VI 18 04 39 00 37.10N 140.70E 8 4.4W,3.7s ¶603244155
BJI VI 18 04 39 02.1 36.86N 140.75E 20 4.8b,4.6b
ISCJB VI 18 04 39 04.3–.35 37.07N–.02 140.61E–.03 23–2 4.5b,3.6s
JMA VI 18 04 39 04.6 37.06N 140.63E 15–1 4.6,3.6s
MOS VI 18 04 39 05.5–1.1 37.12N 140.51E 33 4.7b,3.6s
IDC VI 18 04 39 08.8–1.9 37.09N 140.46E 49–18 4.4,4.3L
NEIC VI 18 04 39 08.6–.48 37.12N 140.46E 43–4 4.6b,4.3L
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ22.00000°,λ-19.00000°. NP2:ϕ_s244.00000°,δ83.00000°,λ-111.00000°. $M_0$4.54000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=36.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s251.00000°,δ76.00000°,λ-125.00000°. NP2:ϕ_s142.00000°,δ38.00000°,λ-23.00000°. Principal axes: T Plg23.0000°,Azm7.0000°; N Plg34.0000°,Azm260.0000°; P Plg47.0000° ,Azm124.0000°
MOS Error ellipse: s-maj=9.0km s-min=5.6km az=98.0.
IDC Error ellipse: s-maj=15.9km s-min=11.2km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=131.0. Felt at Tokai. Recorded [4 JMA] in Fukushima.

(118) Peru-Bolivia border region

ISC VI 18 05 38 22.8–.41 17.89S–.03 69.99W–.05 105–3 4.9b 721 1-171
SCB VI 18 05 38 20.1–.57 17.78S 69.94W 120 4.8L ¶16631485
BJI VI 18 05 38 21.0 17.60S 69.60W 84 5.3s,5.2b
ISCJB VI 18 05 38 21.5–.12 17.76S–.02 69.74W–.04 113 4.9b,5.2b
IDC VI 18 05 38 24.0–.50 17.67S 69.73W 114–3 5.0,4.8
NEIC VI 18 05 38 23.9–.15 17.64S 69.59W 112 4.8b,4.8
GUC VI 18 05 38 25.6–.33 18.22S 70.31W 106–4 4.7L,4.8
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=17.8km s-min=4.8km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.5km az=164.9.
IDC Error ellipse: s-maj=15.7km s-min=11.3km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=68.0. Felt [III] at Codpa and [II] at Alcerreca, Arica, Camina, Cuya, Poconchile, Putre and Visviri. Felt [II] at Locumba and Tacna, Peru. Also felt at La Paz, Bolivia.
GUC Error ellipse: s-maj=2.6km s-min=4.0km az=-1.0.

(162) South Island

WEL VI 18 07 12 15.1–.10 43.56S 172.74E 8–0 3.7L ¶16631897
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL VI 18 08 27 09.7–.22 43.68S 172.88E 5 4.0L
NEIC VI 18 08 27 10.0 43.67S 172.86E 7 4.0L ¶16631898
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

ISC VI 18 09 12 49.5–.63 36.97N–.04 141.23E–.07 49–5 3.9b,3.1s 51 0-90
NIED VI 18 09 12 00 37.00N 141.20E 53 4.1W,3.1s ¶603244163
ISCJB VI 18 09 12 48.2–.65 36.98N–.03 141.24E–.07 52–4 3.9b,3.2s
JMA VI 18 09 12 49.5–.10 37.00N 141.17E 48–1 4.0,3.2s
IDC VI 18 09 12 50.4–.64 36.99N 141.16E 55–6 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ19.00000°,λ114.00000°. NP2:ϕ_s17.00000°,δ73.00000°,λ82.00000°. $M_0$1.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.4km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=9.1km az=137.0.

(228) Near east coast of eastern Honshu

JMA VI 18 09 24 42.7–.10 35.81N 140.90E 11–1 3.1 ¶600643510
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC VI 18 09 57 55.6–.56 35.56N–.04 140.14E–.04 68–4 4.4b 139 0-148
NIED VI 18 09 57 00 35.70N 140.10E 68 4.4W ¶16632942
JMA VI 18 09 57 54.9–.20 35.67N 140.12E 71–2 4.2
IDC VI 18 09 57 54.9–1.2 35.53N 140.18E 65–12 4.2,4.1
ISCJB VI 18 09 57 55.5–.26 35.55N–.03 140.03E–.04 75–2 4.3b,4.1
NEIC VI 18 09 57 55.8–.49 35.55N 140.05E 65–4 4.4b,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ39.00000°,λ-41.00000°. NP2:ϕ_s233.00000°,δ65.00000°,λ-122.00000°. $M_0$4.05000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s41.00000°,δ77.00000°,λ124.00000°. NP2: ϕ_s149.00000°,δ36.00000°,λ23.00000°. Principal axes: T Plg47.0000°,Azm346.0000° ; N Plg33.0000°,Azm212.0000°; P Plg24.0000°,Azm105.0000°
IDC Error ellipse: s-maj=14.9km s-min=6.2km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=149.8.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.6km az=102.0. Felt [II] at Tokyo. Also felt at Chiba, Kodaira, Sagamihara, Yokohama, Yokosuka and Zama. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama, Tochigi and Tokyo.

(162) South Island

WEL VI 18 10 13 32.6–.11 43.55S 172.73E 8–0 3.6L ¶16640749
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(229) Off east coast of Honshu

ISC VI 18 10 41 48.4–.48 36.16N–.04 142.10E–.05 23 4.3b,3.6s 122 1-84
NIED VI 18 10 41 00 36.30N 141.90E 17 4.1W,3.6s ¶16632943
IDC VI 18 10 41 45.5–.73 36.18N 141.99E 0 4.1,4.1b
ISCJB VI 18 10 41 46.9–.34 36.21N–.03 142.07E–.04 23 4.2b,3.7s
MOS VI 18 10 41 48.6–.84 36.25N 142.02E 33 4.5b,3.7s
BJI VI 18 10 41 48.9 36.02N 141.91E 33 4.9b,4.6b
JMA VI 18 10 41 49.3–.20 36.27N 141.88E 66–5 3.9,4.6b
NEIC VI 18 10 41 49.3–1.5 36.15N 142.00E 27–10 4.7b,4.6b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s27.00000°,δ67.00000°,λ97.00000°. $M_0$1.85000×10^{15}
IDC Error ellipse: s-maj=21.2km s-min=13.7km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=20.9.
MOS Error ellipse: s-maj=10.3km s-min=6.6km az=125.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=105.0. Felt at Tokyo.

(34) Off coast of northern California

ISC VI 18 10 49 09.7–1.7 41.87N–.05 127.02W–.05 3–9 4.9b,4.6s 438 2-154
BJI VI 18 10 49 06.7 41.80N 126.90W 10 5.3b,5.0b ¶16631601
IDC VI 18 10 49 08.3–.60 41.83N 126.95W 0 4.5,4.4
MOS VI 18 10 49 09.3–1.1 41.82N 126.99W 12 5.1b,4.7s
ISCJB VI 18 10 49 10.4–.85 41.93N–.02 126.87W–.03 11–5 4.7b,4.4s
NEIC VI 18 10 49 11.4–.27 41.88N 127.00W 10 4.8b,4.4s
GCMT VI 18 10 49 11.4–.10 41.93N 127.14W 12 5.2W,4.4s
ISC Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=35.0.
MOS Error ellipse: s-maj=6.0km s-min=4.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.5km az=38.4.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=38.0. Felt [II] at Eureka.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c126; s126,c244; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$0.82±.01; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-0.37±.03; Best double couple: NP1:ϕ_s352.00000°,δ57.00000° ,λ-93.00000°. NP2:ϕ_s177.00000°,δ33.00000°,λ-86.00000°. Principal axes: T 0.9190,Plg12.0000°,Azm84.0000°; N -0.0330,Plg2.0000°,Azm354.0000° ; P -0.8860,Plg77.0000°,Azm253.0000° $M_0$0.90200×10^{17}

(228) Near east coast of eastern Honshu

ISC VI 18 11 31 05.9–.30 37.69N–.02 141.75E–.02 24–1 5.9b,5.4s 2161 1-161
NIED VI 18 11 31 00 37.60N 141.90E 20 5.7W,5.4s ¶602897676
BJI VI 18 11 31 01.9 37.52N 141.64E 15 5.9s,5.8

IDC	VI	18 11 31 02.5–.31	37.66N	141.75E	0	5.5,5.4	
JMA	VI	18 11 31 04.6–.10	37.62N	141.82E	28–2	6.0,5.4	
ISCJB	VI	18 11 31 05.1–.34	37.62N–.01	141.73E–.01	26–2	5.8b,5.5s	
GCMT	VI	18 11 31 05.9–.10	37.68N	141.76E	16–0	5.8W,5.5s	
NEIC	VI	18 11 31 05.9–.07	37.66N	141.66E	20	5.9b,5.7W	
MOS	VI	18 11 31 06.2–.85	37.69N	141.74E	37	6.0b,5.5s	
NEIC	VI	18 11 31 06.0–.00	37.61N	141.86E	11	6.0b,5.5s	
NEIC	VI	18 11 31 14.2–.00	37.73N	141.67E	10	6.0b,5.5s	

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ36.00000°,λ-161.00000°. NP2:ϕ_s141.00000°,δ79.00000°,λ-55.00000°. M_o3.74000×10^{17}

IDC Error ellipse: s-maj=10.6km s-min=8.0km az=81.0.

JMA Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=155.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c237; s135,c362;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.89±.04 $M_{\theta\theta}$3.02±.03; $M_{\phi\phi}$-1.13±.03; $M_{r\theta}$-1.90±.10; $M_{\theta\phi}$-1.17±.02; $M_{\phi r}$5.86±.19; Best double couple: NP1: ϕ_s152.00000°,δ83.00000°,λ-68.00000°. NP2:ϕ_s259.00000°,δ23.00000°,λ-162.00000°. Principal axes: T 5.9550,Plg35.0000°,Azm224.0000°; N 1.4610,Plg22.0000°,Azm330.0000° ; P -7.4170,Plg47.0000°,Azm85.0000° M_o6.68600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=141.0. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.18 $M_{\theta\theta}$1.24 $M_{\phi\phi}$-0.06 $M_{r\theta}$-1.20 $M_{\theta\phi}$-0.28 $M_{\phi r}$2.85 Best double couple: NP1:ϕ_s271.00000°,δ15.00000°,λ-149.00000°. NP2:ϕ_s151.00000°,δ82.00000°,λ-77.00000°. Principal axes: T 2.9000,Plg36.0000° ,Azm229.0000°; N 0.7500,Plg13.0000°,Azm329.0000°; P -3.6400,Plg51.0000°,Azm75.0000° M_o3.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ11.00000°,λ-153.00000°. NP2:ϕ_s155.00000°,δ85.00000°,λ-80.00000°. Principal axes: T Plg39.0000°,Azm236.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm76.0000°

MOS Error ellipse: s-maj=5.6km s-min=4.0km az=105.4.

NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.38 $M_{\theta\theta}$1.71 $M_{\phi\phi}$-0.33 $M_{r\theta}$-0.55 $M_{\theta\phi}$-0.79 $M_{\phi r}$5.00 Best double couple: NP1:ϕ_s167.00000° ,δ85.00000°,λ-76.00000°. NP2:ϕ_s276.00000°,δ14.00000°,λ-160.00000°. Principal axes: T 4.5000,Plg39.0000°,Azm245.0000°; N 1.3800,Plg13.0000°,Azm346.0000° ; P -5.8800,Plg47.0000°,Azm91.0000° M_o5.30000×10^{17}

NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.81 $M_{\theta\theta}$2.53 $M_{\phi\phi}$-0.72 $M_{r\theta}$-0.42 $M_{\theta\phi}$-1.12 $M_{\phi r}$2.49 Best double couple: NP1:ϕ_s257.00000° ,δ42.00000°,λ-149.00000°. NP2:ϕ_s143.00000°,δ70.00000°,λ-52.00000°. Principal axes: T 3.2100,Plg16.0000°,Azm206.0000°; N 0.6200,Plg35.0000°,Azm308.0000° ; P -3.8300,Plg50.0000°,Azm95.0000° M_o3.50000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**VI**	**18 11 50 07.5–2.1**	**36.85N–.05**	**141.36E–.10**	**15–11**	**3.6b**	**18**	**1-57**
IDC	VI	18 11 50 03.2–2.8	36.95N	142.06E	0	3.7,3.6		**¶17206460**
ISCJB	VI	18 11 50 07.3–1.5	36.81N–.04	141.4E–.10	23–8	3.5b,3.6		
JMA	VI	18 11 50 09.6–.10	36.84N	141.19E	36–1	3.4,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=59.7km s-min=30.3km az=74.0.

ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=7.0km az=1.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(207) Eastern New Guinea region

ISC	**VI**	**18 11 56 39.0–.27**	**6.26S–.03**	**146.70E–.05**	**50**	**5.2b,4.8s**	**248**	**3-152**
IDC	VI	18 11 56 31.4–.48	6.30S	146.76E	0	5.1,5.0		**¶16631901**
BJI	VI	18 11 56 36.9	6.11S	146.97E	58	5.6b,5.3s		
MOS	VI	18 11 56 36.5–.93	6.27S	146.64E	45	5.3b,4.7s		
ISCJB	VI	18 11 56 37.0–.18	6.30S–.02	146.59E–.04	50	5.2b,4.8s		
GCMT	VI	18 11 56 39.7–.30	6.39S	146.72E	47–2	5.1W,4.8s		
NEIC	VI	18 11 56 39.7–.56	6.32S	146.59E	60–5	5.2b,4.8s		
DJA	VI	18 11 56 42.3–.50	7S–3.0	147E–5.0	69–5	5.6,5.3b		

ISC Event type fe.

ISCJB Event type fe.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c17; s74,c106;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.36±.40 $M_{\theta\theta}$-0.39±.24; $M_{\phi\phi}$1.75±.27; $M_{r\theta}$2.42±.18; $M_{\theta\phi}$-4.04±.15; $M_{\phi r}$-0.71±.21; Best double couple: NP1:ϕ_s282.00000°,δ82.00000°,λ-145.00000°. NP2:ϕ_s186.00000°,δ56.00000°,λ-10.00000°. Principal axes: T 5.4900,Plg17.0000°,Azm49.0000°; N -1.1280,Plg55.0000°,Azm294.0000° ; P -4.3620,Plg30.0000°,Azm150.0000° M_o4.92600×10^{16}

NEIC Event type fe. Felt at Kainantu and Lae.

(706) Northern Sumatera

ISC	**VI**	**18 11 57 59.6–1.2**	**1.77N–.03**	**99.06E–.03**	**17–7**	**4.8b,4.7s**	**342**	**1-147**
BJI	VI	18 11 57 54.6	1.31N	98.78E	15	5.2b,5.1s		**¶16631602**
ISCJB	VI	18 11 57 57.0–.19	1.81N–.02	99.00E–.03	10	4.7b,4.5s		
MOS	VI	18 11 57 59.6–1.7	1.77N	99.12E	33	5.0b,4.5s		
DJA	VI	18 11 58 00.7–.20	2N–2.0	99E–2.0	10	5.7b,5.4		
GCMT	VI	18 11 58 01.0–.20	1.80N	99.12E	17–1	5.2W,5.4		
KLM	VI	18 11 58 02.0	1.80N	99.25E	20	6.1s,5.4L		
NEIC	VI	18 11 58 01.0–1.3	1.85N	99.11E	25–9	5.0W,4.9b		
IDC	VI	18 11 58 06.7–4.5	1.82N	99.14E	75–41	4.7,4.6s		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=143.6.

MOS Error ellipse: s-maj=10.4km s-min=5.7km az=111.6.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c49; s100,c153; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.02 $M_{\theta\theta}$-0.58±.02; $M_{\phi\phi}$0.74±.02; $M_{r\theta}$-0.21±.05; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$-0.49±.07; Best double couple: NP1:ϕ_s36.00000°,δ86.00000° ,λ-40.00000°. NP2:ϕ_s129.00000°,δ51.00000°,λ-175.00000°. Principal axes: T 0.9560,Plg23.0000°,Azm89.0000°; N -0.2240,Plg50.0000°,Azm211.0000° ; P -0.7310,Plg30.0000°,Azm345.0000° M_o0.84400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=219.0. Felt [V] at Sibolga and [IV] at Sarulla and Tarutung. Felt [IV] at Petaling Jaya and [II] at Kuala Lumpur, Malaysia. Also felt at Balakong, Kajang-Sungai Chua, Klang, Nilai, Rawang, Shah Alam and Subang Jaya. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.32 $M_{\theta\theta}$-3.30 $M_{\phi\phi}$4.62 $M_{r\theta}$1.08 $M_{\theta\phi}$-1.09 $M_{\phi r}$-0.26 Best double couple: NP1:ϕ_s215.00000°,δ72.00000°,λ-13.00000°. NP2:ϕ_s310.00000°,δ77.00000°,λ-161.00000°. Principal axes: T 4.7900,Plg4.0000° ,Azm82.0000°; N -0.9200,Plg67.0000°,Azm343.0000°; P -3.8700,Plg22.0000° ,Azm173.0000° M_o4.40000×10^{16}

IDC Error ellipse: s-maj=19.3km s-min=10.5km az=51.0.

(268) Sulawesi

ISC	**VI**	**18 16 04 22.2–.92**	**2.43S–.05**	**121.15E–.07**	**53**	**3.4b**	**17**	**1-60**
IDC	VI	18 16 04 15.9–1.5	2.35S	121.35E	0	3.6,3.4		**¶16730897**
NEIC	VI	18 16 04 19.0	2.51S	121.29E	10	3.5b,3.4		
ISCJB	VI	18 16 04 20.1–.65	2.47S–.06	121.18E–.07	53	3.3b,3.4		
DJA	VI	18 16 04 20.3–.40	2S–4.0	121E–4.0	46–55	4.2b,4.0		

ISC Event type fe.

NEIC Event type fe. Felt [III] at Soroako. After DJA.

ISCJB Event type fe.

(243) Taiwan region

ISC	**VI**	**18 16 54 05.6–.99**	**22.01N–.03**	**121.56E–.03**	**13–5**	**4.0b,3.4s**	**143**	**0-85**
NIED	VI	18 16 54 00	22.20N	121.70E	11	4.3W,3.4s		**¶16638625**
IDC	VI	18 16 54 03.8–.55	21.90N	121.63E	0	4.1,3.9		
TAP	VI	18 16 54 05.1	21.95N	121.49E	13–0	4.3L,3.9		
BJI	VI	18 16 54 05.8	21.98N	121.48E	10	4.4b,3.9b		
JMA	VI	18 16 54 06.5–.20	22.23N	121.67E	7	4.1,3.9b		
NEIC	VI	18 16 54 08.8–.62	22.05N	121.59E	35	4.7L,4.3b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ19.00000°,λ-86.00000°. NP2:ϕ_s294.00000°,δ71.00000°,λ-91.00000°. M_o3.22000×10^{15}

IDC Error ellipse: s-maj=24.9km s-min=12.5km az=66.0.

TAP C.

JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=10.1km az=80.0. Recorded [4 TAP] at Taitung.

(228) Near east coast of eastern Honshu

ISC	**VI**	**18 16 57 51.7–1.9**	**38.55N–.05**	**142.0E–.10**	**29–12**	**3.7b**	**23**	**1-62**
NIED	VI	18 16 57 00	38.60N	142.00E	35	3.5W		**¶17206474**
IDC	VI	18 16 57 45.9–2.0	38.70N	142.51E	0	3.7,3.6		
ISCJB	VI	18 16 57 50.6–1.3	38.55N–.05	142.11E–.09	30–7	3.6b,3.6		
JMA	VI	18 16 57 52.6–.10	38.60N	142.00E	34–1	3.9,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ29.00000°,λ-31.00000°. NP2:ϕ_s294.00000°,δ75.00000°,λ-116.00000°. M_o1.95000×10^{14}

IDC Error ellipse: s-maj=43.4km s-min=30.6km az=74.0.

ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=7.5km az=6.8.

JMA Event type fe.

(70) Guatemala

ISC	**VI**	**18 17 30 23.5–.76**	**14.07N–.05**	**91.82W–.05**	**70–6**	**4.8b**	**823**	**2-160**
GCMT	VI	18 17 30 19.5–.10	13.98N	92.33W	26–0	5.5W		**¶602918674**
NEIC	VI	18 17 30 19.5–.18	14.02N	91.64W	32	5.5W,5.4W		
CASC	VI	18 17 30 20.1–1.7	14.27N	91.68W	0–182	4.9,4.9b		
NEIC	VI	18 17 30 20.0–.00	13.91N	92.11W	30	4.9,4.9b		
MEX	VI	18 17 30 20.4–.55	13.91N	92.11W	20	4.8,4.9b		
ISCJB	VI	18 17 30 24.1–.38	14.08N–.02	91.61W–.02	91–3	4.7b,4.9b		
BJI	VI	18 17 30 26.0	14.20N	91.50W	76	5.3s,5.1b		
IDC	VI	18 17 30 27.5–2.7	14.12N	91.59W	101–23	4.7s,4.7		
MOS	VI	18 17 30 27.3–.92	14.42N	91.67W	99	4.9b,4.7s		

ISC Event type fe.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s112,c210; s110,c187; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.74±.03 $M_{\theta\theta}$-1.36±.02; $M_{\phi\phi}$-0.37±.03; $M_{r\theta}$0.74±.04; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$-0.83±.05; Best double couple: NP1:ϕ_s127.00000°,δ62.00000° ,λ101.00000°. NP2:ϕ_s285.00000°,δ30.00000°,λ71.00000°. Principal axes: T 2.1070,Plg71.0000°,Azm61.0000°; N -0.1770,Plg9.0000°,Azm302.0000° ; P -1.9270,Plg16.0000°,Azm209.0000° M_o2.01700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=216.0. Felt [II] at Antigua Guatemala and Guatemala. Felt in much of southwestern Guatemala. Also felt at Antiguo Cuscatlan, Izalco, Olocuitla and San Salvador, El Salvador. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.03 $M_{\theta\phi}$0.29 $M_{\phi r}$0.06 Best double couple: NP1:ϕ_s170.00000°,δ44.00000°,λ91.00000°. NP2:ϕ_s348.00000° ,δ46.00000°,λ89.00000°. Principal axes: T 1.3100,Plg88.0000°,Azm223.0000° ; N 0.1400,Plg1.0000°,Azm349.0000°; P -1.4500,Plg1.0000°,Azm79.0000° M_o1.40000×10^{17}

CASC Error ellipse: s-maj=131.0km s-min=365.5km az=-1.0.

NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46 $M_{\theta\theta}$-1.28 $M_{\phi\phi}$-0.17 $M_{r\theta}$1.04 $M_{\theta\phi}$1.16 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s115.00000° ,δ62.00000°,λ82.00000°. NP2:ϕ_s312.00000°,δ29.00000°,λ104.00000°. Principal axes: T 1.8100,Plg72.0000°,Azm6.0000°; N 0.5300,Plg7.0000°,Azm119.0000° ; P -2.3400,Plg16.0000°,Azm211.0000° M_o2.10000×10^{17}

MEX Error ellipse: s-maj=6.4km s-min=10.3km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=44.3.

IDC Error ellipse: s-maj=21.0km s-min=10.1km az=58.0.

MOS Error ellipse: s-maj=10.3km s-min=4.7km az=108.9.

(228) Near east coast of eastern Honshu

ISC	**VI**	**18 19 10 27.9–1.4**	**36.97N–.04**	**141.31E–.06**	**13–8**	**4.3b**	**88**	**0-147**
NIED	VI	18 19 10 00	37.00N	141.20E	11	4.0W		**¶603244165**
ISCJB	VI	18 19 10 27.9–.79	36.99N–.03	141.31E–.05	25–5	4.3b		
JMA	VI	18 19 10 29.3–.10	36.99N	141.20E	28–1	4.3		
NEIC	VI	18 19 10 31.8–.66	37.04N	141.19E	37–6	4.5b		
IDC	VI	18 19 10 32.8–2.9	37.00N	141.11E	43–27	4.0,3.9L		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ34.00000°,λ-63.00000°. NP2:ϕ_s41.00000°,δ60.00000°,λ-107.00000°. M_o1.05000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=23.0.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.0km az=124.0. Recorded [3 JMA] in Fukushima.

IDC Error ellipse: s-maj=22.5km s-min=14.4km az=76.0.

(162) South Island

WEL	**VI**	**18 19 26 34.3–.16**	**43.55S**	**172.92E**	**7–0**	**3.6L**		**¶16633275**

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**18 20 05 26.5–1.9**	**36.86N–.05**	**141.30E–.06**	**12–11**	**4.5b**	**44**	**0-69**
NIED	VI	18 20 05 00	36.80N	141.30E	5	3.7W		**¶600643990**
ISCJB	VI	18 20 05 25.1–1.4	36.77N–.05	141.45E–.06	15–9	4.5b,3.8s		
JMA	VI	18 20 05 27.6–.10	36.81N	141.28E	27–1	3.9,3.8s		
NEIC	VI	18 20 05 29.5–.59	36.68N	141.39E	35	4.9b,3.8s		
IDC	VI	18 20 05 29.9–3.4	37.39N	141.06E	0	3.9,3.8b		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ42.00000°,λ-84.00000°. NP2:ϕ_s193.00000°,δ49.00000°,λ-95.00000°. M_o4.44000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.6km az=136.9.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=14.2km s-min=9.0km az=154.0. Recorded [1 JMA] in Fukushima and Ibaraki.

IDC Error ellipse: s-maj=78.1km s-min=24.6km az=153.0.

(1) Central Alaska

ISC	**VI**	**18 20 40 28.3–.74**	**62.09N–.03**	**148.32W–.03**	**42–7**	**4.3b,3.3s**	**225**	**0-146**
ISCJB	VI	18 20 40 27.8–.16	62.09N–.02	148.31W–.03	54–2	4.3b,3.4s		**¶16632950**
NEIC	VI	18 20 40 29.4	62.08N	148.26W	29	4.5b,4.1W		
IDC	VI	18 20 40 32.1–2.5	62.25N	148.38W	74–20	4.0,3.8		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=15.5.

NEIC Event type fe. Felt [II] at Palmer. Also felt at Girdwood and Valdez. After AEIC. Moment Tensor Solution. s47 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.70 $M_{\theta\theta}$1.02 $M_{\phi\phi}$0.68 $M_{r\theta}$-0.24 $M_{\theta\phi}$0.89 $M_{\phi r}$0.62 Best double couple: NP1:ϕ_s212.00000°,δ51.00000°,λ-114.00000°. NP2: ϕ_s68.00000°,δ44.00000°,λ-63.00000°. Principal axes: T 1.7700,Plg4.0000°,Azm319.0000° ; N 0.1600,Plg18.0000°,Azm228.0000°; P -1.9200,Plg71.0000°,Azm60.0000° M_o1.90000×10^{15}

IDC Error ellipse: s-maj=19.0km s-min=12.7km az=30.0.

(123) Northern Chile

ISC	**VI**	**18 21 18 41.3–.60**	**19.60S–.04**	**69.22W–.08**	**115–5**	**4.2b**	**42**	**0-152**
ISCJB	VI	18 21 18 40.5–.36	19.63S–.03	69.25W–.08	123–3	4.2b		**¶16684535**
IDC	VI	18 21 18 41.0–2.7	19.43S	69.07W	108–23	4.5,4.2		
GUC	VI	18 21 18 41.3–.57	19.62S	69.28W	113–3	4.2L,4.2		
NEIC	VI	18 21 18 41.0	19.62S	69.28W	113	4.1b,4.2		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.6km az=0.6.

IDC Error ellipse: s-maj=34.5km s-min=19.3km az=123.0.

GUC Error ellipse: s-maj=1.9km s-min=4.0km az=-1.0.

NEIC Event type fe. Felt [III] at Cuya and [II] at Arica, Camina, Codpa, Pisagua and Poconchile. After GUC.

(58) Near coast of Guerrero

ISC	**VI**	**18 22 54 42.5–.39**	**16.94N–.03**	**99.56W–.03**	**23–2**	**4.8b,4.1s**	**687**	**0-129**
ISCJB	VI	18 22 54 41.6–.24	16.99N–.02	99.42W–.02	30	4.7b,4.1s		**¶16632956**
IDC	VI	18 22 54 43.8–.81	17.11N	99.23W	26–4	4.5,4.4		
NEIC	VI	18 22 54 44.0	16.92N	99.60W	26	5.2,4.8b		
MEX	VI	18 22 54 44.2–1.3	16.90N	99.61W	29–7	5.2,4.8b		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=4.1.

IDC Error ellipse: s-maj=26.5km s-min=10.9km az=59.0.

NEIC Event type fe. Felt [III] at Acapulco and [II] at Mexico. Also felt at Chilapa, Chilpancingo, Ixtapaluca, Tierra Colorada and Tlalnepantla. After MEX. Moment Tensor Solution. s17 Moment tensor: Scale 10^{16}Nm; M_{rr}2.25 $M_{\theta\theta}$-1.80 $M_{\phi\phi}$-0.45 $M_{r\theta}$-0.97 $M_{\theta\phi}$-0.20 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s77.00000°,δ33.00000°,λ80.00000°. NP2:ϕ_s269.00000° ,δ58.00000°,λ97.00000°. Principal axes: T 2.4900,Plg76.0000°,Azm199.0000° ; N -0.4500,Plg6.0000°,Azm86.0000°; P -2.0400,Plg12.0000°,Azm354.0000° M_o2.30000×10^{16}

MEX Error ellipse: s-maj=4.7km s-min=2.9km az=-1.0.

(109) Near coast of northern Peru

ISC	**VI**	**19 00 20 06.2–.29**	**6.07S–.04**	**81.10W–.05**	**30**	**5.1s,5.0b**	**719**	**3-178**
IDC	VI	19 00 20 01.6–.51	5.83S	81.03W	0	5.2,5.1s		**¶16632960**
GCMT	VI	19 00 20 03.8–.10	6.12S	81.22W	20–0	5.6W,5.1s		
NEIC	VI	19 00 20 03.8–.23	5.96S	80.98W	10	5.5W,5.0b		
ISCJB	VI	19 00 20 04.4–.20	5.93S–.03	80.92W–.03	28	5.1s,4.9b		
BJI	VI	19 00 20 07.3	6.00S	80.90W	30	5.4b,5.4s		

ISC Event type fe.

IDC Error ellipse: s-maj=12.7km s-min=9.0km az=42.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c187; s120,c274;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.96±.03 $M_{\theta\theta}$-0.19±.02; $M_{\phi\phi}$-1.77±.03; $M_{r\theta}$0.47±.04; $M_{\theta\phi}$0.43±.02; $M_{\phi r}$-2.42±.08; Best double couple: NP1:

ϕ_s168.00000°,δ71.00000°,λ92.00000°. NP2:ϕ_s343.00000°,δ19.00000°,λ86.00000°.
Principal axes: T 3.1670,Plg64.0000°,Azm81.0000°; N -0.0840,Plg1.0000°,Azm348.0000°
; P -3.0830,Plg26.0000°,Azm257.0000° $M_0$3.12500×10^{17}

NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.3km az=56.0. Felt [III] at Piura and Sechura. Also felt at Cajamarca, Chiclayo, Paita and Talara. Moment Tensor Solution. s47
Moment tensor: Scale 10^{17}Nm; M_{rr}1.03 $M_{\theta\theta}$0.19 $M_{\phi\phi}$-1.21 $M_{r\theta}$0.31 $M_{\theta\phi}$0.35 $M_{\phi r}$-1.59
Best double couple: NP1:ϕ_s169.00000°,δ72.00000°,λ92.00000°. NP2:ϕ_s344.00000°
,δ18.00000°,λ85.00000°. Principal axes: T 1.8600,Plg63.0000°,Azm81.0000°
; N 0.2700,Plg1.0000°,Azm348.0000°; P -2.1300,Plg27.0000°,Azm257.0000°
$M_0$2.00000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=143.9.

(162) South Island

WEL	**VI**	**19 03 16 37.2–.09**	**44.53S**	**168.39E**	**5**	**4.5L**	
NEIC	VI	19 03 16 37.1	44.53S	168.37E	5	4.5L	**¶16633277**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from West Coast to Southland, and from Fiordland to Otago, maximum. reported intensity MM 5.

NEIC Event type fe. Felt in the Queenstown area. After WEL.

(227) Eastern Honshu

JMA	**VI**	**19 03 31 22.6**	**37.08N**	**140.78E**	**8–1**	**2.6**	**¶600644345**

JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**VI**	**19 04 23 50.1**	**36.85N**	**140.70E**	**10–1**	**3.6**	**¶600644382**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:
ϕ_s159.00000°,δ49.00000°,λ-112.00000°. NP2:ϕ_s12.00000°,δ45.00000°,λ-66.00000°.
Principal axes: T Plg2.0000°,Azm265.0000°; N Plg17.0000°,Azm174.0000°; P Plg73.0000°
,Azm2.0000°

(228) Near east coast of eastern Honshu

JMA	**VI**	**19 06 41 04.8–.10**	**37.39N**	**141.43E**	**34–2**	**3.9**	
NIED	VI	19 06 41 00	37.40N	141.40E	47	3.7W	**¶600644437**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ68.00000°,λ-163.00000°.
NP2:ϕ_s209.00000°,δ74.00000°,λ-23.00000°. $M_0$3.47000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 06 52 45.6–.69**	**35.40N–.03**	**141.00E–.04**	**27–4**	**4.7b,3.9s**	**236**	**0-139**	
NIED	VI	19 06 52 00	35.50N	141.10E	38	4.8W,3.9s			**¶16632969**
BJI	VI	19 06 52 37.8	35.22N	141.28E	10	4.7b,4.7b			
IDC	VI	19 06 52 42.0–.52	35.43N	140.82E	0	4.6,4.5L			
MOS	VI	19 06 52 44.6–1.3	35.48N	141.03E	33	4.8b,4.5L			
ISCJB	VI	19 06 52 45.7–.46	35.37N–.03	140.96E–.04	43–3	4.6b,3.9s			
JMA	VI	19 06 52 46.1–.10	35.52N	141.02E	38–1	4.5,3.9s			
NEIC	VI	19 06 52 47.1–.25	35.43N	140.87E	35	4.8b,3.9s			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ56.00000°,λ35.00000°.
NP2:ϕ_s301.00000°,δ61.00000°,λ140.00000°. $M_0$1.58000×10^{16}

IDC Error ellipse: s-maj=16.9km s-min=11.2km az=100.0.

MOS Error ellipse: s-maj=8.7km s-min=4.9km az=110.9.

ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=171.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s75.00000°,δ57.00000°,λ78.00000°. NP2:
ϕ_s277.00000°,δ35.00000°,λ108.00000°. Principal axes: T Plg75.0000°,Azm311.0000°
; N Plg10.0000°,Azm82.0000°; P Plg11.0000°,Azm174.0000°

NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=116.0. Recorded [2 JMA] in Chiba and Ibaraki.

(162) South Island

WEL	**VI**	**19 07 17 47.1–.07**	**43.61S**	**172.40E**	**9–0**	**4.2L**	
NEIC	VI	19 07 17 47.1	43.61S	172.40E	8	4.2L	**¶16633279**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 08 46 42.6–1.2**	**39.61N–.04**	**142.11E–.08**	**44–8**	**3.6b**	**31**	**0-47**	
NIED	VI	19 08 46 00	39.60N	142.10E	56	3.7W			**¶17206517**
ISCJB	VI	19 08 46 41.5–.77	39.62N–.03	142.11E–.09	51–5	3.6b			
JMA	VI	19 08 46 41.9	39.60N	142.11E	48–1	3.7			
IDC	VI	19 08 46 44.6–3.0	39.71N	142.06E	61–22	3.7,3.5			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ72.00000°.
NP2:ϕ_s33.00000°,δ69.00000°,λ97.00000°. $M_0$3.92000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.1km az=13.3.

JMA Event type fe.

IDC Error ellipse: s-maj=35.4km s-min=15.9km az=124.0.

(91) Virgin Islands

ISC	**VI**	**19 10 13 27.2–1.6**	**19.19N–.05**	**64.80W–.03**	**19–6**	**4.3b,3.3s**	**146**	**1-162**	
IDC	VI	19 10 13 23.6–.72	19.21N	64.77W	0	4.1,4.0			**¶16632974**
TRN	VI	19 10 13 26.7	19.10N	64.92W	13	4.1,4.0			
NEIC	VI	19 10 13 29.5	19.23N	64.81W	12	4.5b,4.1W			
RSPR	VI	19 10 13 29.5	19.23N	64.81W	12–2	4.1,4.1W			

ISC Event type fe.

IDC Error ellipse: s-maj=18.4km s-min=14.5km az=62.0.

NEIC Event type fe. Felt [IV] at Vega Alta, Puerto Rico. After RSPR. Moment Tensor Solution. s10
Moment tensor: Scale 10^{15}Nm; M_{rr}1.47 $M_{\theta\theta}$-1.71 $M_{\phi\phi}$0.24 $M_{r\theta}$0.09 $M_{\theta\phi}$0.90 $M_{\phi r}$-0.14
Best double couple: NP1:ϕ_s117.00000°,δ47.00000°,λ98.00000°. NP2:ϕ_s285.00000°
,δ43.00000°,λ81.00000°. Principal axes: T 1.4800,Plg84.0000°,Azm92.0000°
; N 0.5800,Plg6.0000°,Azm292.0000°; P -2.0700,Plg2.0000°,Azm202.0000°
$M_0$1.80000×10^{15}

RSPR Event type ke.

(244) Taiwan

ISC	**VI**	**19 10 18 55.3–.46**	**24.71N–.03**	**121.87E–.02**	**80–3**	**4.2b**	**255**	**0-146**	
NIED	VI	19 10 18 00	24.70N	121.80E	59	4.3W			**¶16638738**
IDC	VI	19 10 18 54.8–.76	24.69N	121.96E	89–6	3.8,3.6			
JMA	VI	19 10 18 54.2–.20	24.66N	121.83E	82–2	4.1,3.6			
ISCJB	VI	19 10 18 54.2–.14	24.73N–.02	121.88E–.01	86–1	4.1b,3.6			
NEIC	VI	19 10 18 55.1–.32	24.71N	121.84E	78–3	4.5b,3.6			
BJI	VI	19 10 18 55.5	24.78N	121.58E	88	4.4b,4.3b			
TAP	VI	19 10 18 55.4	24.69N	121.84E	75–0	4.8L,4.3b			

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ64.00000°,λ19.00000°.
NP2:ϕ_s71.00000°,δ73.00000°,λ153.00000°. $M_0$3.36000×10^{15}

IDC Error ellipse: s-maj=20.9km s-min=13.0km az=71.0.

JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=152.7.

NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=105.0. Felt [II] at Taipei. Recorded [4 TAP] in Yilan; [2 TAP] in Hualien, Miaoli and Taoyuan; [1 TAP] in Changhua, Hsinchu, Nantou and Yunlin.

TAP B.

(162) South Island

WEL	**VI**	**19 11 00 57.6–.33**	**43.58S**	**172.82E**	**8–1**	**3.5L**	**¶16633280**

WEL Event type fe. Error ellipse: s-maj=3.2km s-min=1.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**VI**	**19 13 03 50.5–.22**	**43.65S**	**172.84E**	**7–0**	**4.2L**	
NEIC	VI	19 13 03 50.1	43.66S	172.86E	8	4.2L	**¶16633281**

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt on the Banks Peninsula and at Christchurch. After WEL.

(162) South Island

WEL	**VI**	**19 13 10 25.9–.12**	**43.60S**	**172.73E**	**10–0**	**3.5L**	**¶601027696**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(256) Leyte

MAN	**VI**	**19 13 59 50**	**10.39N**	**125.22E**	**18**	**4.5b,3.4L**	**¶601654443**

MAN Event type fe. INTENSITY II - ST BERNARD SOUTHERN LEYTE.

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 15 49 24.0–.73**	**38.49N–.05**	**142.08E–.05**	**44–6**	**4.2b**	**94**	**1-86**	
NIED	VI	19 15 49 00	38.50N	141.90E	53	4.0W			**¶600644817**
ISCJB	VI	19 15 49 22.3–.60	38.49N–.03	142.08E–.06	46–4	4.2b,3.3s			
MOS	VI	19 15 49 23.3–.84	38.53N	142.08E	55	4.4b,3.3s			
JMA	VI	19 15 49 24.3–.10	38.52N	141.92E	44–1	4.1,3.3s			
NEIC	VI	19 15 49 24.4–.67	38.46N	142.19E	56–6	4.3b,3.3s			
IDC	VI	19 15 49 25.2–2.4	38.51N	141.93E	51–20	4.1,4.0L			

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ57.00000°,λ28.00000°.
NP2:ϕ_s350.00000°,δ67.00000°,λ144.00000°. $M_0$1.29000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=16.5.

MOS Error ellipse: s-maj=10.9km s-min=7.9km az=97.0.

JMA Event type fe.

NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=113.0. Felt at Ichinoseki. Recorded [2 JMA] in Iwate and Miyagi.

IDC Error ellipse: s-maj=27.1km s-min=14.9km az=84.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**19 16 31 20.3–.10**	**37.49N**	**141.37E**	**28–1**	**3.5**	
NIED	VI	19 16 31 00	37.50N	141.40E	35	3.5W	**¶600644853**

JMA Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ62.00000°,λ-167.00000°.
NP2:ϕ_s202.00000°,δ79.00000°,λ-28.00000°. $M_0$2.23000×10^{14}

(83) South of Panama

ISC	**VI**	**19 16 34 42.3–.69**	**7.28N–.05**	**82.34W–.04**	**20–3**	**5.0b,4.1s**	**923**	**2-154**	
IDC	VI	19 16 34 38.9–.60	7.25N	82.31W	0	4.8,4.7			**¶16632982**
MOS	VI	19 16 34 40.8–1.1	7.54N	82.17W	10	5.2b,4.7			
ISCJB	VI	19 16 34 42.6–.25	7.60N–.04	82.17W–.02	21	4.9b,4.1s			
NEIC	VI	19 16 34 43.0–.74	7.32N	82.20W	21–5	5.0b,4.1s			
BJI	VI	19 16 34 43.2	7.40N	82.20W	20	5.4b,5.2s			
GCMT	VI	19 16 34 43.0–.20	7.23N	82.33W	23–1	5.1W,5.2s			

ISC Event type fe.

IDC Error ellipse: s-maj=20.5km s-min=14.0km az=54.0.

MOS Error ellipse: s-maj=11.0km s-min=5.4km az=112.8.

ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.2km az=21.4.

NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.3km az=207.0. Felt at Horconcito. Also felt at Laurel, Rio Claro and San Vito, Costa Rica.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c68; s106,c165;
Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.12±.18 $M_{\theta\theta}$1.30±.13; $M_{\phi\phi}$-1.42±.18;
$M_{r\theta}$0.34±.20; $M_{\theta\phi}$6.12±.14; $M_{\phi r}$-0.11±.23; Best double couple: NP1:ϕ_s276.00000°,δ89.00000°
,λ-3.00000°. NP2:ϕ_s6.00000°,δ87.00000°,λ-179.00000°. Principal axes: T 6.2160,Plg2.0000°
,Azm321.0000°; N 0.1280,Plg87.0000°,Azm87.0000°; P -6.3430,Plg3.0000°,Azm231.0000°
$M_0$6.27900×10^{16}

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 16 59 58.8–1.7**	**37.35N–.04**	**141.48E–.07**	**14–9**	**3.7b**	**32**	**0-69**	
NIED	VI	19 17 00 00	37.40N	141.30E	53	3.8W			**¶17206537**
IDC	VI	19 17 00 02.0–3.2	37.37N	141.50E	39–27	3.7,3.6			
JMA	VI	19 17 00 02.3–.10	37.37N	141.30E	35–1	3.7,3.6			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ27.00000°,λ-35.00000°.
NP2:ϕ_s244.00000°,δ75.00000°,λ-112.00000°. $M_0$4.98000×10^{14}

IDC Error ellipse: s-maj=33.9km s-min=17.5km az=89.0.

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 18 13 04.8–.70**	**36.77N–.03**	**141.16E–.04**	**28–4**	**4.5b,4.0s**	**219**	**0-99**	
NIED	VI	19 18 13 00	36.80N	141.30E	5	4.6W,4.0s			**¶16638786**
JMA	VI	19 18 13 01.7–.10	36.77N	141.29E	30–2	4.7,4.0s			
ISCJB	VI	19 18 13 03.6–.59	36.82N–.03	141.18E–.03	27–3	4.5b,4.0s			
MOS	VI	19 18 13 04.5–1.4	36.86N	141.20E	33	4.6b,4.0s			
IDC	VI	19 18 13 05.7–2.4	36.79N	141.19E	38–20	4.1,4.1			
BJI	VI	19 18 13 05.3	36.58N	141.05E	43	4.8b,4.5b			
NEIC	VI	19 18 13 06.8–.81	36.88N	140.99E	37–7	4.7b,4.5b			

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ38.00000°,λ-102.00000°.
NP2:ϕ_s25.00000°,δ53.00000°,λ-81.00000°. $M_0$1.03000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=141.8.

MOS Error ellipse: s-maj=8.1km s-min=5.3km az=94.8.

IDC Error ellipse: s-maj=15.7km s-min=11.2km az=105.0.

NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=4.9km az=142.0. Felt at Hitachinaka and Yokohama. Recorded [2 JMA] in Fukushima and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 18 58 33.3–.55**	**36.92N–.04**	**141.48E–.04**	**25–3**	**4.5b,3.6s**	**174**	**1-126**	
NIED	VI	19 18 58 00	36.90N	141.50E	32	4.2W,3.6s			**¶16638789**
ISCJB	VI	19 18 58 32.6–.70	36.92N–.03	141.49E–.04	32–4	4.4b,3.5s			
JMA	VI	19 18 58 33.8–.20	36.92N	141.39E	46–2	4.3,3.5s			
MOS	VI	19 18 58 33.0–1.0	36.98N	141.46E	33	4.7b,3.5s			
BJI	VI	19 18 58 34.9	37.03N	141.06E	39	4.8b,4.6b			
NEIC	VI	19 18 58 36.6–.68	37.00N	141.31E	49–6	4.6b,4.6b			
IDC	VI	19 18 58 36.9–1.7	36.91N	141.37E	53–15	4.4,4.2			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ26.00000°,λ-167.00000°.
NP2:ϕ_s35.00000°,δ85.00000°,λ-65.00000°. $M_0$2.27000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.8km az=32.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

MOS Error ellipse: s-maj=8.7km s-min=6.1km az=94.4.

NEIC Event type fe. Error ellipse: s-maj=8.7km s-min=5.3km az=137.0. Recorded [3 JMA] in Fukushima.

IDC Error ellipse: s-maj=12.3km s-min=9.3km az=93.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 19 50 57.3–1.0**	**36.92N–.03**	**140.47E–.03**	**9–7**	**3.9b**	**51**	**0-91**	
NIED	VI	19 19 50 00	36.90N	140.50E	5	3.8W			**¶16730977**
ISCJB	VI	19 19 50 57.8–.41	36.96N–.02	140.53E–.03	21–3	3.9b,3.5s			
JMA	VI	19 19 50 57.7	36.93N	140.48E	6–1	3.8,3.5s			
NEIC	VI	19 19 50 57.5–.52	36.87N	140.42E	10	4.3b,3.5s			
IDC	VI	19 19 50 58.8–4.6	36.98N	140.36E	16–27	3.9,3.9			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ45.00000°,λ-94.00000°.
NP2:ϕ_s221.00000°,δ46.00000°,λ-86.00000°. $M_0$5.54000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.6km az=30.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:
ϕ_s207.00000°,δ46.00000°,λ-103.00000°. NP2:ϕ_s45.00000°,δ46.00000°,λ-77.00000°.
Principal axes: T Plg0.0000°,Azm306.0000°; N Plg9.0000°,Azm216.0000°; P Plg81.0000°
,Azm36.0000°

NEIC Event type se. Error ellipse: s-maj=11.1km s-min=9.0km az=97.0.

IDC Error ellipse: s-maj=27.9km s-min=14.7km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**19 20 24 20.3–1.2**	**39.83N–.04**	**142.16E–.07**	**29–7**	**3.7b**	**28**	**0-72**	
NIED	VI	19 20 24 00	39.80N	142.20E	38	3.5W			**¶17206543**
ISCJB	VI	19 20 24 18.1–.98	39.85N–.04	142.31E–.07	27–5	3.5b			
JMA	VI	19 20 24 19.3–.10	39.84N	142.23E	30–1	3.9			
IDC	VI	19 20 24 22.6–3.0	39.85N	142.21E	55–28	3.6,3.5L			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ38.00000°,λ-150.00000°.
NP2:ϕ_s94.00000°,δ72.00000°,λ-56.00000°. $M_0$2.25000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.4km az=6.6.

JMA Event type fe.

IDC Error ellipse: s-maj=39.1km s-min=20.4km az=105.0.

(227) Eastern Honshu

ISC	**VI**	**19 21 17 09.1–1.5**	**37.10N–.04**	**140.92E–.07**	**4–9**	**3.7b**	**19**	**0-67**	
NIED	VI	19 21 17 00	37.10N	140.90E	8	3.5W			**¶16638791**
ISCJB	VI	19 21 17 08.0–.99	37.09N–.03	140.97E–.07	8–4	3.6b,3.5s			
IDC	VI	19 21 17 07.9–2.2	37.09N	140.99E	0	3.7,3.6b			
JMA	VI	19 21 17 09.4	37.11N	140.86E	7	3.7,3.6b			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ22.00000°,λ-104.00000°.
NP2:ϕ_s240.00000°,δ68.00000°,λ-84.00000°. $M_0$2.30000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=15.5.

IDC Error ellipse: s-maj=46.9km s-min=28.5km az=36.0.

JMA Event type fe.

(181) Fiji Islands region

ISC	**VI**	**19 21 26 46.5–.31**	**15.22S–.05**	**178.06W–.05**	**35**	**5.0b,4.7s**	**330**	**4-178**	
IDC	VI	19 21 26 39.7–.75	15.02S	178.07W	0	4.8s,4.8			**¶16633288**
BJI	VI	19 21 26 42.4	14.75S	178.20W	6	5.2b,5.1s			

ISCJB VI 19 21 26 44.5–.16 15.11S–.04 178.19W–.04 35 5.0b,4.7s
MOS VI 19 21 26 45.2–1.7 15.07S 178.25W 37 5.2b,4.7s
NEIC VI 19 21 26 46.2–.19 15.02S 178.25W 35 5.0b,4.7s
GCMT VI 19 21 26 49.8–.10 15.01S 177.94W 12 5.4W,4.7s
ISC Event type fe.
IDC Error ellipse: s-maj=26.4km s-min=17.2km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=44.3.
MOS Error ellipse: s-maj=12.0km s-min=7.5km az=135.4.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=4.9km az=127.0. Felt at Lambasa, Nausori and Suva. Also felt at Sigave, Wallis and Futuna.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c155; s121,c220; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.02 $M_{\theta\theta}$-0.39±.02; $M_{\phi\phi}$0.54±.02; $M_{r\theta}$-0.18±.04; $M_{\theta\phi}$1.30±.01; $M_{\phi r}$-0.09±.04; Best double couple: NP1:ϕ_s260.00000°,δ89.00000°,λ8.00000°. NP2:ϕ_s170.00000°,δ82.00000°,λ179.00000°. Principal axes: T 1.4790,Plg6.0000°,Azm125.0000°; N -0.1670,Plg82.0000°,Azm268.0000°; P -1.3120,Plg5.0000°,Azm35.0000° M_o1.39600×10^{17}

(227) Eastern Honshu

ISC	**VI**	**19 21 55 30.6–1.6**	**37.07N–.05**	**140.93E–.07**	**7–8**	**4.0s**	**20**	**0-74**
IDC	VI	19 21 55 30.8–2.4	36.91N	141.03E	0	4.0,3.9s		**¶16638792**
ISCJB	VI	19 21 55 31.7–.96	37.10N–.03	140.90E–.07	8–4	4.0s,3.4b		
JMA	VI	19 21 55 32.6	37.12N	140.83E	8–1	3.3,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=41.9km s-min=28.3km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.1km az=17.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s229.00000°,δ53.00000°,λ-95.00000°. NP2:ϕ_s58.00000°,δ37.00000°,λ-83.00000°. Principal axes: T Plg8.0000°,Azm323.0000°; N Plg4.0000°,Azm232.0000°; P Plg81.0000°,Azm116.0000°

(228) Near east coast of eastern Honshu

JMA	**VI**	**19 23 05 00.1–.10**	**36.35N**	**140.91E**	**40–1**	**3.5**		
NIED	VI	19 23 05 00	36.40N	140.90E	35	3.6W		**¶600645071**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ21.00000°,λ112.00000°. NP2:ϕ_s19.00000°,δ71.00000°,λ82.00000°. M_o2.67000×10^{14}

(76) Off coast of central America

ISC	**VI**	**20 00 10 41.8–1.2**	**12.93N–.08**	**88.96W–.06**	**65–10**	**3.5b**	**48**	**1-88**
ISCJB	VI	20 00 10 41.4–.56	12.95N–.07	88.94W–.05	73–6	3.6b		**¶16684542**
IDC	VI	20 00 10 41.5–9.3	12.74N	88.59W	76–62	3.8L,3.7		
CASC	VI	20 00 10 42.4–2.2	12.92N	88.94W	36–879	4.5,4.0b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=4.1km az=32.9.
IDC Error ellipse: s-maj=91.4km s-min=37.2km az=23.0.
CASC Error ellipse: s-maj=11.5km s-min=6.1km az=-1.0.

(671) Eastern Siberia

ISC	**VI**	**20 00 12 55.2–.62**	**60.66N–.04**	**165.71E–.05**	**15**	**3.7b,3.0s**	**32**	**0-57**
KRSC	VI	20 00 12 51.8–.44	60.71N	165.60E	6–3	4.7L,3.0s		**¶16638793**
MOS	VI	20 00 12 52.1–1.7	60.72N	165.66E	7	3.9b,3.0s		
ISCJB	VI	20 00 12 53.7–.41	60.70N–.04	165.58E–.08	15	3.8b,3.2s		
IDC	VI	20 00 12 54.2–1.4	60.84N	165.62E	0	5.1L,3.8		
NEIC	VI	20 00 12 58.9–.88	60.83N	165.57E	35	4.0b,3.8		

ISC Event type fe.
KRSC Event type se. FELT [II-III] at Tilichiki; [II] at Korf.
MOS Event type fe. Error ellipse: s-maj=20.3km s-min=10.6km az=85.6. Felt (II) at Tilichiki, Korf. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.2km az=146.4.
IDC Error ellipse: s-maj=38.3km s-min=12.7km az=168.0.
NEIC Event type fe. Error ellipse: s-maj=24.1km s-min=8.7km az=169.0. Felt [II] at Korf and Tilichiki.

(228) Near east coast of eastern Honshu

JMA	**VI**	**20 00 15 32.3**	**36.51N**	**140.97E**	**16–1**	**3.8**		
NIED	VI	20 00 15 00	36.50N	141.00E	5	3.4W		**¶600645102**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ67.00000°,λ-21.00000°. NP2:ϕ_s123.00000°,δ71.00000°,λ-156.00000°. M_o1.61000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 00 41 39.4–1.2**	**38.29N–.04**	**141.94E–.10**	**39–4**	**3.4b**	**32**	**0-62**
NIED	VI	20 00 41 00	38.30N	141.80E	59	3.9W		**¶17206556**
IDC	VI	20 00 41 33.5–1.2	38.30N	142.09E	0	3.7,3.6		
ISCJB	VI	20 00 41 38.7–.88	38.26N–.03	141.89E–.09	51–7	3.5b,3.6		
JMA	VI	20 00 41 40.2–.10	38.31N	141.79E	50–1	4.0,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ24.00000°,λ-97.00000°. NP2:ϕ_s122.00000°,δ66.00000°,λ-87.00000°. M_o7.48000×10^{14}
IDC Error ellipse: s-maj=27.7km s-min=20.0km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.1km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 00 50 52.7–2.1**	**39.32N–.04**	**142.59E–.08**	**7–11**	**3.1b**	**22**	**1-59**
NIED	VI	20 00 50 00	39.30N	142.50E	32	3.6W		**¶600645116**
JMA	VI	20 00 50 56.2–.10	39.27N	142.49E	33–1	4.0		
IDC	VI	20 00 51 01.1–4.2	39.20N	142.53E	82–37	3.4,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ27.00000°,λ-52.00000°. NP2:ϕ_s269.00000°,δ69.00000°,λ-107.00000°. M_o2.87000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=41.8km s-min=24.2km az=90.0.

(243) Taiwan region

ISC	**VI**	**20 01 06 32.3–1.2**	**22.41N–.02**	**121.51E–.03**	**4–8**	**4.1b,3.4s**	**157**	**0-84**
NIED	VI	20 01 06 00	22.50N	121.60E	5	4.1W,3.4s		**¶16642450**
IDC	VI	20 01 06 31.6–.69	22.19N	121.36E	0	4.1,4.0		
ISCJB	VI	20 01 06 33.1–.43	22.35N–.02	121.54E–.02	20–3	4.0b,3.2s		
JMA	VI	20 01 06 33.7–.10	22.53N	121.56E	1–2	4.5,3.2s		
NEIC	VI	20 01 06 34.3	22.42N	121.38E	14	4.6L,4.4b		
BJI	VI	20 01 06 34.6	22.50N	121.32E	5	3.8b,3.8s		
TAP	VI	20 01 06 35.1	22.44N	121.39E	30–0	4.5L,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ54.00000°,λ148.00000°. NP2:ϕ_s351.00000°,δ65.00000°,λ40.00000°. M_o1.63000×10^{15}
IDC Error ellipse: s-maj=28.9km s-min=14.3km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=145.9.
NEIC Event type fe. Recorded [2 TAP] in Taitung. After TAP.
TAP B.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 01 34 49.6–1.1**	**35.38N–.04**	**141.16E–.05**	**24–7**	**4.4b**	**107**	**0-118**
NIED	VI	20 01 34 00	35.50N	141.00E	38	4.6W		**¶16638794**
ISCJB	VI	20 01 34 49.2–.78	35.35N–.03	141.10E–.04	31–5	4.5b,3.4s		
BJI	VI	20 01 34 50.0	35.30N	141.00E	35	4.9b,4.5s		
JMA	VI	20 01 34 51.2–.20	35.52N	140.97E	42–2	4.4,4.5s		
NEIC	VI	20 01 34 51.5–.30	35.36N	141.02E	35	4.6b,4.5s		
IDC	VI	20 01 34 53.5–1.8	35.44N	140.87E	53–18	4.0,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ14.00000°,λ-173.00000°. NP2:ϕ_s128.00000°,δ88.00000°,λ-76.00000°. M_o8.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=165.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.9km az=140.0. Recorded [1 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=18.8km s-min=10.6km az=91.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 01 42 42.2–.79**	**35.48N–.04**	**140.95E–.08**	**33**	**3.9b**	**23**	**0-70**
NIED	VI	20 01 42 00	35.50N	140.90E	41	4.0W		**¶17206559**
JMA	VI	20 01 42 43.5–.20	35.52N	140.94E	38–1	3.5		
IDC	VI	20 01 42 46.1–2.6	35.42N	140.73E	62–22	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ19.00000°,λ141.00000°. NP2:ϕ_s335.00000°,δ78.00000°,λ75.00000°. M_o1.33000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.7km s-min=12.6km az=81.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 01 46 35.9–.30**	**35.45N–.03**	**140.91E–.04**	**33**	**4.7b,3.9s**	**304**	**0-146**
NIED	VI	20 01 46 00	35.50N	141.00E	44	4.8W,3.9s		**¶16633292**
BJI	VI	20 01 46 32.8	35.30N	140.94E	38	4.9b,4.8b		
ISCJB	VI	20 01 46 34.1–.18	35.36N–.03	140.87E–.03	33	4.7b,3.9s		
JMA	VI	20 01 46 35.9–.10	35.52N	140.94E	40–1	4.6,3.9s		
MOS	VI	20 01 46 37.9–1.0	35.42N	140.77E	67	4.8b,3.9s		
IDC	VI	20 01 46 38.7–1.5	35.44N	140.73E	59–14	4.5,4.4		
NEIC	VI	20 01 46 38.5–.56	35.43N	140.72E	56–5	4.7b,4.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ22.00000°,λ106.00000°. NP2:ϕ_s339.00000°,δ69.00000°,λ84.00000°. M_o1.69000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.3km az=152.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.8km az=115.9.
IDC Error ellipse: s-maj=14.5km s-min=8.4km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=125.0. Felt at Chiba and Tokyo. Recorded [3 JMA] in Chiba and Ibaraki.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 02 03 39.3–1.1**	**36.41N–.07**	**140.60E–.07**	**53–7**	**3.5b**	**22**	**0-56**
ISCJB	VI	20 02 03 38.4–.86	36.39N–.07	140.63E–.08	58–5	3.8s,3.4b		**¶600645133**
JMA	VI	20 02 03 39.4–.10	36.42N	140.57E	54–1	3.4,3.4b		
IDC	VI	20 02 03 41.0–4.8	36.38N	140.48E	66–45	4.0,3.8s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=6.8km az=136.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ68.00000°,λ125.00000°. NP2:ϕ_s135.00000°,δ41.00000°,λ35.00000°. Principal axes: T Plg53.0000°,Azm330.0000°; N Plg32.0000°,Azm183.0000°; P Plg16.0000°,Azm82.0000°
IDC Error ellipse: s-maj=49.2km s-min=27.4km az=99.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 02 35 31.0–.61**	**37.38N–.04**	**141.82E–.05**	**27–3**	**4.0b**	**58**	**1-90**
NIED	VI	20 02 35 00	37.40N	141.70E	32	3.8W		**¶600645146**
ISCJB	VI	20 02 35 30.8–.75	37.35N–.04	141.82E–.06	42–6	4.0b		
JMA	VI	20 02 35 32.6–.10	37.42N	141.70E	39–3	3.8		
IDC	VI	20 02 35 33.0–.76	37.36N	141.68E	41–5	4.1L,4.0		
NEIC	VI	20 02 35 33.7–1.0	37.36N	141.85E	51–9	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ29.00000°,λ92.00000°. NP2:ϕ_s301.00000°,δ61.00000°,λ89.00000°. M_o6.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=7.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=14.2km az=81.0.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=9.2km az=90.0. Recorded [1 JMA] in Fukushima.

(368) Southern Greece

ISC	**VI**	**20 02 35 41.0–.73**	**37.86N–.01**	**21.13E–.01**	**11–4**	**4.0b**	**384**	**0-74**
IDC	VI	20 02 35 39.9–.93	37.93N	21.05E	0	4.0b,3.8		**¶603247075**
ISCJB	VI	20 02 35 40.8–.38	37.89N–.02	21.01E–.01	13–2	3.9b,3.8		
CSEM	VI	20 02 35 40.9–.16	37.88N	21.07E	2	3.6L,3.8		
NEIC	VI	20 02 35 40.7	37.85N	21.14E	2	3.8L,3.6L		
ATH	VI	20 02 35 40.7	37.85N	21.14E	2–1	3.6L,3.6L		
THE	VI	20 02 35 41.4	37.87N	21.17E	0–1	3.8L,3.6L		
BEO	VI	20 02 35 53.6–.92	38.83N	21.00E	0	3.2,3.6L		
TIR	VI	20 02 36 07.2–.30	39.19N	20.47E	7	3.6L,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=15.4km az=24.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=10.7.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=18.0.
NEIC Event type fe. Felt at Gastouni. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=261.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=254.0.
BEO Event type ke.
TIR Error ellipse: s-maj=7.1km s-min=3.0km az=-1.0.

(249) Luzon

MAN	**VI**	**20 03 13 00**	**13.59N**	**124.18E**	**28**	**4.3b,3.2L**		**¶601654504**

MAN Event type fe. INTENSITY III - VIRAC CATANDUANES.

(706) Northern Sumatera

ISC	**VI**	**20 03 32 48.7–1.4**	**1.87N–.03**	**99.13E–.03**	**1–11**	**3.8b**	**31**	**0-58**
IDC	VI	20 03 32 46.8–3.5	1.59N	98.94E	0	4.6L,4.0		**¶16731007**
ISCJB	VI	20 03 32 50.4–1.4	1.85N–.04	99.10E–.04	8–10	3.7b,4.0		
DJA	VI	20 03 32 51.6–.30	2N–3.0	99E–3.0	10	4.2,4.2		
NEIC	VI	20 03 32 54.0–.77	1.89N	98.96E	35	3.8b,4.2		
KLM	VI	20 03 33 00.7	2.03N	99.61E	52	4.5b,4.1L		

ISC Event type fe.
IDC Error ellipse: s-maj=157.2km s-min=26.0km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.6km az=40.0.
NEIC Event type fe. Error ellipse: s-maj=14.3km s-min=13.1km az=91.0. Felt [III] at Sibolga and Tarutung.

(228) Near east coast of eastern Honshu

JMA	**VI**	**20 04 07 44.1–.10**	**37.32N**	**141.16E**	**63–1**	**3.6**		**¶600645169**

JMA Event type fe.

(305) Western Xizang-India border region

ISC	**VI**	**20 06 27 19.9–.46**	**30.55N–.03**	**79.32E–.02**	**27–3**	**4.8b,3.9s**	**388**	**0-142**
BJI	VI	20 06 27 14.6	30.38N	79.19E	8	4.8b,4.7b		**¶16638796**
IDC	VI	20 06 27 15.6–.44	30.50N	79.33E	0	4.6,4.6b		
ISCJB	VI	20 06 27 18.2–.48	30.57N–.02	79.35E–.02	25–3	4.7b,3.9s		
NEIC	VI	20 06 27 18.4–1.9	30.61N	79.34E	14–11	4.9b,3.9s		
NDI	VI	20 06 27 18.9–2.5	30.41N	79.36E	12–6	4.9b,4.9L		
MOS	VI	20 06 27 19.9–1.3	30.70N	79.32E	33	4.9b,4.9L		
DMN	VI	20 06 27 19.6–.31	30.50N	79.12E	10	5.2L,4.9L		
NNC	VI	20 06 27 28.5–2.8	31.10N	78.90E	44–23	4.7b,4.9L		

ISC Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=10.0km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=25.6.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.2km az=200.0. Felt [III] at Chandigarh, Dehra Dun and Gurgaon; [II] at Delhi and Noida. Also felt at Faridabad, Gopeshwar, New Delhi, Rishikesh, Shimla, Tehri and Tigri.
NDI Error ellipse: s-maj=4.6km s-min=5.5km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=4.2km az=108.9.
DMN Event type ke. Error ellipse: s-maj=21.7km s-min=5.9km az=30.0.
NNC Event type se. Error ellipse: s-maj=35.7km s-min=17.4km az=79.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 07 55 41.0–1.1**	**36.80N–.04**	**140.59E–.04**	**10–9**		**21**	**0-57**
ISCJB	VI	20 07 55 40.4–1.8	36.78N–.03	140.62E–.06	10–14	3.4b		**¶17206583**
IDC	VI	20 07 55 40.4–2.3	36.61N	140.58E	0	3.8,3.5		
JMA	VI	20 07 55 41.6	36.80N	140.54E	8–1	3.4,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.6km az=29.3.
IDC Error ellipse: s-maj=44.0km s-min=26.8km az=48.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s178.00000°,δ55.00000°,λ-77.00000°. NP2:ϕ_s336.00000°,δ37.00000°,λ-108.00000°. Principal axes: T Plg9.0000°,Azm259.0000°; N Plg11.0000°,Azm351.0000°; P Plg76.0000°,Azm130.0000°

(297) Myanmar-China border region

ISC	**VI**	**20 10 16 52.6–.41**	**25.05N–.03**	**98.72E–.03**	**19–1**	**5.3b,4.5s**	**761**	**4-165**
BJI	VI	20 10 16 49.6	25.05N	98.69E	10	5.4L,5.3s		**¶16638798**
IDC	VI	20 10 16 49.1–.34	25.01N	98.77E	0	5.1,5.1		
ISCJB	VI	20 10 16 52.5–.12	25.06N–.02	98.71E–.02	32	5.2b,4.5s		
MOS	VI	20 10 16 52.6–.94	25.04N	98.77E	35	5.5b,4.5s		
BKK	VI	20 10 16 53.0–.30	25N–4.0	99E–6.0	10	5.7,5.5		
NEIC	VI	20 10 16 55.3–.60	25.08N	98.72E	39–5	5.3b,5.5		
GCMT	VI	20 10 16 55.3–.20	25.00N	98.80E	16–0	5.0W,5.5		

ISC Event type de.
IDC Error ellipse: s-maj=10.4km s-min=8.6km az=67.0.
ISCJB Event type de. Error ellipse: s-maj=2.8km s-min=2.3km az=19.0.
MOS Error ellipse: s-maj=5.9km s-min=3.5km az=117.2.
NEIC Event type de. Error ellipse: s-maj=3.5km s-min=3.0km az=215.0. Four people injured and moderate damage at Baoshan, China.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c65; s104,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.90±.18 $M_{\theta\theta}$-5.45±.13; $M_{\phi\phi}$2.55±.12;

$M_{r\theta}$0.17±.31; $M_{\theta\theta}$0.99±.10; $M_{\theta r}$-0.04±.43; Best double couple: NP1:ϕ_s103.00000°,δ46.00000°,λ98.00000°. NP2:ϕ_s271.00000°,δ44.00000°,λ82.00000°. Principal axes:
T 2.9060,Plg84.0000°,Azm86.0000°; N 2.6690,Plg6.0000°,Azm277.0000°
; P -5.5750,Plg1.0000°,Azm187.0000° $M_0$4.24100×10^{16}

(162) South Island

WEL	**VI**	**20 11 21 01.1–.09**	**43.55S**	**172.30E**	**10–1**	**3.7L**		**¶16638802**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(124) Chile-Bolivia border region

ISC	**VI**	**20 16 36 00.9–.18**	**21.77S–.02**	**68.38W–.03**	**126–1**	**6.0b**	**2279**	**1-178**
SJA	VI	20 16 35 53.9–.99	21.59S	68.47W	226–46	6.1L		**¶16638810**
SCB	VI	20 16 35 55.6–.57	21.88S	68.25W	117	5.8L		
ISCJB	VI	20 16 35 57.8–.24	21.71S–.02	68.40W–.02	112–2	6.0b		
BJI	VI	20 16 35 57.5	21.80S	68.30W	100	6.3b		
GUC	VI	20 16 35 59.0–.71	21.87S	68.67W	129–6	6.4L		
MOS	VI	20 16 36 00.7–1.2	21.61S	68.50W	129	6.0b,5.8s		
GCMT	VI	20 16 36 01.2–.10	21.89S	68.63W	131–0	6.5W,5.8s		
IDC	VI	20 16 36 01.4–.25	21.67S	68.27W	126–1	5.9,5.6		
NEIC	VI	20 16 36 01.0–.00	21.70S	68.23W	128	5.9,5.6		
NEIC	VI	20 16 36 01.2–.11	21.70S	68.23W	128	6.5W,6.4W		
CASC	VI	20 16 36 03.0–2.5	21.70S	68.23W	128	6.0b,6.4W		

ISC Event type fe.
SJA Error ellipse: s-maj=12.2km s-min=23.9km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=15.6km s-min=4.3km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=41.8.
GUC Error ellipse: s-maj=2.6km s-min=7.4km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=5.5km az=101.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c350; s136,c502;Duration: 4^{s}5 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.30±.04 $M_{\theta\theta}$-0.35±.04; $M_{\phi\phi}$0.65±.05; $M_{r\theta}$-0.02±.03; $M_{\theta\phi}$1.50±.04; $M_{\phi r}$-7.58±.03; Best double couple: NP1:ϕ_s360.00000°,δ88.00000°,λ-101.00000°. NP2:ϕ_s261.00000°,δ11.00000°,λ-9.00000°. Principal axes: T 7.9220,Plg42.0000°,Azm100.0000°
; N -0.3600,Plg11.0000°,Azm0.0000°; P -7.5610,Plg46.0000°,Azm258.0000°
$M_0$7.74200×10^{18}
IDC Error ellipse: s-maj=7.8km s-min=5.7km az=78.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.20 $M_{\theta\theta}$-0.37 $M_{\phi\phi}$0.57 $M_{r\theta}$-0.59 $M_{\theta\phi}$0.37 $M_{\phi r}$-5.22 Best double couple: NP1:ϕ_s6.00000°,δ88.00000°,λ-92.00000°. NP2:ϕ_s238.00000°,δ4.00000°,λ-38.00000°. Principal axes:
T 5.5000,Plg42.0000°,Azm98.0000°; N -0.4400,Plg2.0000°,Azm6.0000°
; P -5.0600,Plg47.0000°,Azm273.0000° $M_0$5.30000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=63.0. Felt [VI] at Alto Hospicio, Iquique and Pica; [V] at Calama, Huara, Pozo Almonte, Quillagua and Tocopilla; [IV] at Camina and Maria Elena; [III] at Antofagasta, Arica, Caldera, Chanaral, Codpa, Copiapo, Mejillones, Poconchile, San Pedro de Atacama, Taltal and Tierra Amarilla; [II] at Cuya, Los Loros and Putre. Also felt at Buin. Felt [IV] at Arequipa and [II] at Tacna, Peru. Also felt at Moquegua. Felt at Potosi, Bolivia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution.
$M_0$1.10000×10^{19} Moment Tensor Solution. s38 Moment tensor: Scale 10^{18}Nm; M_{rr}1.82 $M_{\theta\theta}$-0.84 $M_{\phi\phi}$-0.98 $M_{r\theta}$-1.83 $M_{\theta\phi}$2.03 $M_{\phi r}$-5.82 Best double couple: NP1:ϕ_s188.00000°,δ84.00000°,λ109.00000°. NP2:ϕ_s295.00000°,δ19.00000°,λ18.00000°. Principal axes:
T 7.2900,Plg48.0000°,Azm118.0000°; N -1.6800,Plg18.0000°,Azm6.0000°
; P -5.6100,Plg37.0000°,Azm262.0000° $M_0$6.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s298.00000°,δ16.00000°,λ19.00000°. NP2:ϕ_s190.00000°,δ85.00000°,λ105.00000°. Principal axes: T Plg48.0000°,Azm116.0000°
; N Plg0.0000°,Azm0.0000°; P Plg38.0000°,Azm267.0000°
CASC Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.

(162) South Island

WEL	**VI**	**20 17 27 47.9–.12**	**43.60S**	**172.52E**	**10–1**	**3.6L**		**¶16640759**

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 20 26 22.7–1.5**	**38.06N–.04**	**141.98E–.08**	**33–4**	**3.4b**	**31**	**1-82**
IDC	VI	20 20 26 15.6–2.2	38.34N	142.51E	0	3.8,3.8s		**¶17206622**
JMA	VI	20 20 26 25.1–.10	38.12N	141.78E	56–1	3.7,3.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=56.2km s-min=27.7km az=83.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(460) Wyoming

ISC	**VI**	**20 21 11 13.3–.66**	**43.77N–.03**	**105.17W–.03**	**0**		**70**	**1-68**
IDC	VI	20 21 11 10.7–1.6	43.41N	105.16W	0	4.2b,3.9		**¶17206632**
ISCJB	VI	20 21 11 13.0–.34	43.78N–.02	105.23W–.04	0	4.4b,3.4s		
NEIC	VI	20 21 11 14.3–.46	43.77N	105.22W	0	3.6L,2.9		

ISC Event type sm.
IDC Error ellipse: s-maj=38.7km s-min=8.9km az=156.0.
ISCJB Event type fm. Error ellipse: s-maj=3.8km s-min=3.4km az=24.7.
NEIC Event type fm. Error ellipse: s-maj=6.2km s-min=5.8km az=74.0. 64 km [40 miles] SSE of Gillette. Suspected Mining explosion.

(228) Near east coast of eastern Honshu

JMA	**VI**	**20 21 27 51.1–.10**	**36.38N**	**140.58E**	**54–1**	**2.8**		**¶600645743**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**20 22 26 38.9–1.3**	**37.05N–.04**	**141.29E–.08**	**42–11**	**3.4b**	**29**	**0-57**
NIED	VI	20 22 26 00	37.10N	141.10E	44	3.8W		**¶600645790**
ISCJB	VI	20 22 26 37.7–.81	37.02N–.04	141.34E–.08	49–6	3.5b		
JMA	VI	20 22 26 39.9–.10	37.06N	141.14E	51–1	3.8		
IDC	VI	20 22 26 42.8–2.6	36.89N	141.12E	84–24	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ10.00000°,λ104.00000°. NP2:ϕ_s45.00000°,δ80.00000°,λ87.00000°. $M_0$4.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.5km az=16.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=13.0km az=65.0.

(229) Off east coast of Honshu

ISC	**VI**	**20 23 10 03.4–1.1**	**40.09N–.04**	**142.43E–.07**	**46–9**	**4.2b**	**72**	**0-81**
BJI	VI	20 23 09 32.9	39.49N	146.35E	8	4.7b,4.6s		**¶603482802**
NEIC	VI	20 23 09 38.8–.26	39.15N	146.33E	35	4.7b,4.6s		
NIED	VI	20 23 10 00	40.10N	142.40E	38	4.1W,4.6s		
ISCJB	VI	20 23 10 01.7–.72	40.16N–.04	142.47E–.07	50–5	4.3b,3.0s		
JMA	VI	20 23 10 01.9–.10	40.15N	142.46E	35–1	4.0,3.0s		
IDC	VI	20 23 10 04.9–2.3	40.15N	142.48E	67–20	4.0,3.8		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=153.0. Recorded [1 JMA] in Aomori and Iwate.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ17.00000°,λ61.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ98.00000°. $M_0$1.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.1km az=12.5.
JMA Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=14.3km az=111.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 04 39 51.0–.76**	**38.65N–.05**	**142.02E–.07**	**50–6**	**4.1b**	**55**	**1-89**
NIED	VI	21 04 39 00	38.70N	142.00E	47	4.1W		**¶16638821**
ISCJB	VI	21 04 39 50.4–.75	38.71N–.05	141.99E–.08	56–5	4.2b		
JMA	VI	21 04 39 50.9–.10	38.67N	142.02E	45–1	4.1		
IDC	VI	21 04 39 51.2–.70	38.62N	142.00E	50–6	4.0,4.0		
NEIC	VI	21 04 39 51.9–.73	38.72N	142.00E	54–6	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ32.00000°,λ40.00000°. NP2:ϕ_s35.00000°,δ70.00000°,λ116.00000°. $M_0$1.62000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.8km az=28.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=12.3km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=124.0. Recorded [3 JMA] in Iwate and Miyagi.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 05 16 60.0–.77**	**38.54N–.05**	**141.94E–.07**	**49–5**	**3.9b**	**39**	**0-62**
ISCJB	VI	21 05 16 59.7–.65	38.56N–.04	141.84E–.08	62–5	3.8b		**¶600646052**
JMA	VI	21 05 17 00.9	38.58N	141.73E	61–1	4.0		
NIED	VI	21 05 17 00	38.60N	141.80E	59	4.0W		
IDC	VI	21 05 17 01.4–.79	38.42N	141.91E	70–7	4.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.8km az=21.9.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ45.00000°,λ-177.00000°. NP2:ϕ_s317.00000°,δ88.00000°,λ-45.00000°. $M_0$9.68000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=11.4km az=109.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 05 21 21.0–2.0**	**38.26N–.04**	**142.10E–.09**	**24–15**	**3.5b**	**21**	**1-58**
NIED	VI	21 05 21 00	38.30N	142.10E	41	3.7W		**¶17206656**
IDC	VI	21 05 21 19.4–1.4	37.89N	143.19E	0	3.8L,3.6		
ISCJB	VI	21 05 21 20.3–1.3	38.24N–.05	142.15E–.07	28–8	3.4b,3.6		
JMA	VI	21 05 21 21.6–.10	38.31N	142.12E	36–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ47.00000°,λ-117.00000°. NP2:ϕ_s84.00000°,δ49.00000°,λ-64.00000°. $M_0$4.12000×10^{14}
IDC Error ellipse: s-maj=39.4km s-min=26.4km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.7km az=8.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 05 36 58.7–1.0**	**35.67N–.05**	**140.77E–.08**	**49–9**	**3.8b**	**23**	**0-75**
NIED	VI	21 05 36 00	35.70N	140.60E	47	4.0W		**¶17206658**
ISCJB	VI	21 05 36 58.2–.62	35.69N–.04	140.7E–.10	59–5	3.8b,3.2s		
IDC	VI	21 05 36 58.8–2.4	35.64N	140.69E	49–23	3.9,3.8		
JMA	VI	21 05 36 59.2–.10	35.72N	140.62E	47–1	3.2,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ14.00000°,λ68.00000°. NP2:ϕ_s15.00000°,δ77.00000°,λ95.00000°. $M_0$1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=7.0km az=170.1.
IDC Error ellipse: s-maj=32.5km s-min=17.7km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ80.00000°,λ86.00000°. NP2:ϕ_s212.00000°,δ11.00000°,λ113.00000°. Principal axes: T Plg55.0000°,Azm273.0000°
; N Plg4.0000°,Azm9.0000°; P Plg35.0000°,Azm102.0000°

(7) Andreanof Islands

ISC	**VI**	**21 06 20 36.1–.64**	**51.4N–.10**	**177.06W–.04**	**48**	**4.0b**	**55**	**0-152**
IDC	VI	21 06 20 29.2–.76	51.46N	177.12W	0	4.1,3.9		**¶16731114**
NEIC	VI	21 06 20 31.0	51.21N	176.86W	1	4.1L,3.8b		
ISCJB	VI	21 06 20 34.5–.60	51.31N–.07	176.99W–.05	48	4.0b,3.8b		

ISC Event type fe.
NEIC Event type fe. Felt on Adak. After AEIC.
ISCJB Event type fe.

(162) South Island

ISC	**VI**	**21 07 35 04.4–.76**	**43.71S–.04**	**171.86E–.04**	**16**		**78**	**0-149**
ISCJB	VI	21 07 35 03.3–.34	43.79S–.04	171.96E–.04	16	3.7b		**¶16640768**
IDC	VI	21 07 35 04.4–1.6	43.65S	171.83E	0	4.1,3.8b		
WEL	VI	21 07 35 06.2–.07	43.70S	171.77E	12	4.3L,3.8b		
NEIC	VI	21 07 35 06.2	43.70S	171.75E	12	4.3L,3.8b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=2.9km az=143.1.
IDC Error ellipse: s-maj=58.2km s-min=12.2km az=171.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(163) Cook Strait

WEL	**VI**	**21 08 13 05.8–.06**	**41.04S**	**174.85E**	**33**	**3.5L**		**¶601027736**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Wellington to Marlborough, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 08 49 42.0–.40**	**35.65N–.03**	**141.38E–.03**	**25–2**	**5.5b,5.0s**	**1429**	**0-161**
NIED	VI	21 08 49 00	35.90N	141.50E	17	5.3W,5.0s		**¶603244174**
IDC	VI	21 08 49 37.8–.37	35.64N	141.45E	0	5.1,5.1		
BJI	VI	21 08 49 37.6	35.74N	141.34E	13	5.4s,5.3b		
JMA	VI	21 08 49 39.9–.20	35.76N	141.47E	21–2	5.5,5.3b		
NEIC	VI	21 08 49 40.5–.07	35.62N	141.31E	15	5.5b,5.4W		
GCMT	VI	21 08 49 40.5–.20	35.76N	141.32E	20–0	5.2W,5.4W		
MOS	VI	21 08 49 41.6–.85	35.69N	141.35E	32	5.6b,5.3s		
ISCJB	VI	21 08 49 41.0–.45	35.65N–.02	141.36E–.01	29–3	5.4b,5.0s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ18.00000°,λ-86.00000°. NP2:ϕ_s183.00000°,δ72.00000°,λ-91.00000°. $M_0$1.02000×10^{17}
JMA Event type fe.
NEIC Event type fe. Felt [II] at Tokyo. Also felt at Chiba, Narita, Tatebayashi and Yachimata. Recorded [3 JMA] in Chiba and Ibaraki. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.97 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$1.51 $M_{r\theta}$-0.04 $M_{\theta\phi}$0.70 $M_{\phi r}$-0.19 Best double couple: NP1:ϕ_s12.00000°,δ49.00000°,λ-97.00000°. NP2:ϕ_s203.00000°,δ41.00000°,λ-82.00000°. Principal axes: T 1.7400,Plg4.0000°,Azm107.0000°; N -0.7600,Plg5.0000°,Azm17.0000°
; P -0.9800,Plg83.0000°,Azm236.0000° $M_0$1.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c100; s96,c176;Duration: 1^{s}0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.52±.19 $M_{\theta\theta}$0.08±.12; $M_{\phi\phi}$5.44±.14; $M_{r\theta}$2.17±.27; $M_{\theta\phi}$2.01±.09; $M_{\phi r}$5.54±.29; Best double couple: NP1:ϕ_s201.00000°,δ68.00000°,λ-88.00000°. NP2:ϕ_s16.00000°,δ22.00000°,λ-95.00000°. Principal axes: T 8.6100,Plg23.0000°,Azm289.0000°
; N -0.5830,Plg2.0000°,Azm20.0000°; P -8.0300,Plg67.0000°,Azm114.0000°
$M_0$8.32000×10^{16}
ISCJB Event type fe.

(224) Hokkaido region

JMA	**VI**	**21 09 51 49.0**	**42.97N**	**141.42E**	**0**	**3.8**		
NIED	VI	21 09 51 00	43.00N	141.40E	5	3.8W		**¶600646201**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ33.00000°,λ83.00000°. NP2:ϕ_s4.00000°,δ57.00000°,λ95.00000°. $M_0$5.09000×10^{14}

(162) South Island

ISC	**VI**	**21 10 34 23.0–.68**	**43.63S–.02**	**172.61E–.02**	**10–4**	**5.2b,4.5s**	**355**	**0-169**
ISCJB	VI	21 10 34 19.5–.23	43.69S–.02	172.78E–.02	10	5.0b,4.5s		**¶16638998**
BJI	VI	21 10 34 20.7	43.56S	172.88E	10	5.4b,5.4b		
IDC	VI	21 10 34 20.8–.58	43.68S	172.63E	0	5.1,5.0b		
NEIC	VI	21 10 34 23.0	43.60S	172.53E	8	5.4L,5.2b		
WEL	VI	21 10 34 23.0–.06	43.60S	172.52E	9–0	5.4L,5.2b		
GCMT	VI	21 10 34 23.0–.20	43.61S	172.44E	12	5.2W,5.2b		
MOS	VI	21 10 34 27.2–2.1	43.48S	172.15E	33	5.0b,4.4s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=1.8km az=145.8.
IDC Error ellipse: s-maj=20.8km s-min=11.8km az=178.0.
NEIC Event type fe. Felt [VII] at Hornby and [VI] at Christchurch. Felt throughout Canterbury, in much of West Coast and as far as Palmerston North and the Invercargill area. After WEL. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}0.60 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.76 $M_{\theta\phi}$-6.58 $M_{\phi r}$-1.04 Best double couple: NP1:ϕ_s180.00000°,δ75.00000°,λ10.00000°. NP2:ϕ_s87.00000°,δ80.00000°,λ165.00000°. Principal axes: T 6.9200,Plg18.0000°,Azm43.0000°; N 0.0000,Plg72.0000°,Azm236.0000°; P -6.9200,Plg4.0000°,Azm134.0000°
$M_0$6.90000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt from Manawatu to Southland, maximum reported intensity MM 8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c75; s103,c170; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.15±.15 $M_{\theta\theta}$-0.23±.15; $M_{\phi\phi}$-0.92±.15; $M_{r\theta}$0.15±.38; $M_{\theta\phi}$-6.81±.11; $M_{\phi r}$1.54±.40; Best double couple: NP1:ϕ_s359.00000°,δ88.00000°,λ13.00000°. NP2:ϕ_s269.00000°,δ77.00000°,λ178.00000°. Principal axes:
T 6.4180,Plg10.0000°,Azm224.0000°; N 1.1480,Plg77.0000°,Azm6.0000°
; P -7.5670,Plg8.0000°,Azm133.0000° $M_0$6.99300×10^{16}
MOS Error ellipse: s-maj=22.2km s-min=15.4km az=44.7.

(162) South Island

WEL	**VI**	**21 10 38 05.5–.08**	**43.60S**	**172.53E**	**7–0**	**4.4L**		
NEIC	VI	21 10 38 05.4	43.60S	172.51E	5	4.7L		**¶16646149**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt [V] in Canterbury. After WEL.

(228) Near east coast of eastern Honshu

ISC	**VI**	**21 10 53 46.0–1.3**	**38.80N–.04**	**141.71E–.08**	**67–8**	**3.8b**	**29**	**0-59**
ISCJB	VI	21 10 53 45.2–.80	38.79N–.04	141.67E–.09	74–4	3.8b		**¶17206671**

JMA VI 21 10 53 46.0 38.78N 141.62E 71–1 3.4
IDC VI 21 10 53 50.6–3.5 39.43N 139.66E 0 3.9b,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.2km az=15.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ84.00000°,λ35.00000°. NP2:ϕ_s63.00000°,δ55.00000°,λ172.00000°. Principal axes: T Plg29.0000°,Azm26.0000°; N Plg54.0000°,Azm166.0000°; P Plg19.0000°,Azm285.0000°
IDC Error ellipse: s-maj=102.1km s-min=24.0km az=71.0.
(162) South Island
WEL VI 21 10 57 02.0–.09 43.60S 172.51E 7–1 3.5L
¶16640770
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(162) South Island
WEL VI 21 11 09 33.9–.06 43.59S 172.53E 5 3.6L
¶16640772
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
(228) Near east coast of eastern Honshu
JMA VI 21 13 10 31.4–.10 37.18N 141.39E 48–1 3.6
NIED VI 21 13 10 00 37.20N 141.40E 26 3.2W **¶600646322**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=–1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ31.00000°,λ178.00000°. NP2:ϕ_s165.00000°,δ89.00000°,λ59.00000°. $M_0$7.87000×10^{13}
(162) South Island
WEL VI 21 13 34 28.4–.20 43.61S 172.78E 7–0 3.5L
¶601027758
WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 21 13 59 10.4–1.1 36.95N–.06 141.2E–.10 35 3.5b 18 0-61
NIED VI 21 13 59 00 36.90N 141.30E 8 3.6W **¶600646348**
IDC VI 21 13 59 05.5–1.1 36.87N 141.31E 0 3.6,3.5
JMA VI 21 13 59 07.8–.10 36.92N 141.27E 30–1 3.7,3.5
ISCJB VI 21 13 59 08.6–.86 36.93N–.05 141.22E–.09 35 3.5b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ41.00000°,λ-54.00000°. NP2:ϕ_s185.00000°,δ58.00000°,λ-118.00000°. $M_0$2.79000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
(162) South Island
WEL VI 21 14 25 58.7–.19 43.57S 172.92E 5 3.8L
¶16646151
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 21 14 30 58.7–.57 35.25N–.04 140.46E–.04 45–4 4.4b,3.5s 144 0-148
NIED VI 21 14 30 00 35.40N 140.40E 53 4.6W,3.5s **¶16646382**
BJI VI 21 14 30 52.8 35.13N 140.79E 35 4.8b,4.4b
MOS VI 21 14 30 55.2–1.5 35.25N 140.57E 32 4.5b,4.4b
IDC VI 21 14 30 59.0–1.4 35.26N 140.45E 50–13 4.0,4.0
NEIC VI 21 14 30 58.1–.61 35.30N 140.45E 39–5 4.6b,4.0
ISCJB VI 21 14 30 58.5–.30 35.28N–.03 140.43E–.03 57–2 4.3b,3.4s
JMA VI 21 14 30 59.0–.20 35.38N 140.45E 54–2 4.3,3.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ8.00000°,λ14.00000°. NP2:ϕ_s5.00000°,δ88.00000°,λ98.00000°. $M_0$9.24000×10^{15}
MOS Error ellipse: s-maj=9.3km s-min=5.6km az=103.4.
IDC Error ellipse: s-maj=15.0km s-min=6.4km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=5.4km az=129.0. Felt at Chiba, Niiza, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.5km az=25.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(162) South Island
ISC VI 21 15 28 07.9–.77 43.62S–.04 172.56E–.04 18–4 110 0-149
ISCJB VI 21 15 28 06.8–.44 43.69S–.04 172.68E–.05 20–3 3.9s,3.6b **¶16643038**
NEIC VI 21 15 28 08.6 43.60S 172.48E 5 4.5L,4.1W
WEL VI 21 15 28 08.7–.07 43.60S 172.53E 9–0 4.5L,4.1W
IDC VI 21 15 28 09.1–1.7 43.13S 172.33E 0 4.1,4.1s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=3.3km az=135.1.
NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s15 Moment tensor: Scale 10^{15}Nm; M_{rr}0.07 $M_{\theta\theta}$1.09 $M_{\phi\phi}$-1.16 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.06 Best double couple: NP1: ϕ_s155.00000°,δ75.00000°,λ5.00000°. NP2:ϕ_s64.00000°,δ85.00000°,λ165.00000°. Principal axes: T 1.4900,Plg14.0000°,Azm18.0000°; N 0.0000,Plg74.0000°,Azm226.0000°; P -1.5000,Plg7.0000°,Azm110.0000° $M_0$1.50000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=51.8km s-min=37.0km az=169.0.
(162) South Island
WEL VI 21 15 37 47.0–.09 43.60S 172.52E 8–1 3.5L
¶16646152
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL VI 21 15 52 14.8–.09 43.60S 172.53E 7–0 4.0L
NEIC VI 21 15 52 10.8 43.85S 172.67E 5 4.0L **¶16646153**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
(135) Near coast of central Chile
ISC VI 21 16 21 22.5–.46 37.51S–.04 74.11W–.07 35 4.5b 75 1-175
GUC VI 21 16 21 13.8–.52 37.55S 74.35W 11–6 4.7L **¶16640780**
IDC VI 21 16 21 17.6–.85 37.55S 73.85W 0 4.6,4.6s
ISCJB VI 21 16 21 20.9–.40 37.52S–.03 73.87W–.07 33 4.4b,4.2s
BJI VI 21 16 21 21.4 38.22S 73.17W 37 5.4,5.3s
NEIC VI 21 16 21 23.0–.82 37.52S 73.81W 37–7 4.6b,5.3s
ISC Event type fe.
GUC Error ellipse: s-maj=1.9km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=17.9km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=177.3.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=5.1km az=87.0. Felt [III] at Arauco, Contulmo, Curanilahue and Lebu; [II] at Concepcion, Lota, Mulchen and San Pedro de la Paz.
(274) Southern Sumatera
ISC VI 21 16 25 07.6–.53 1.89S–.04 100.02E–.06 30–3 5.0b,4.0s 361 1-158
KLM VI 21 16 25 00.6 2.25S 99.40E 16 5.5s,5.0L **¶16640781**
BJI VI 21 16 25 03.6 2.40S 100.05E 40 5.0b,4.7b
DJA VI 21 16 25 05.8–.50 2S–4.0 100E–6.0 10 5.3b,5.3b
MOS VI 21 16 25 06.7–.98 1.78S 100.15E 33 5.1b,5.3b
ISCJB VI 21 16 25 07.9–.62 1.86S–.03 100.04E–.04 45–5 4.8b,4.1s
IDC VI 21 16 25 08.3–.64 1.82S 100.10E 31–4 4.8L,4.6
NEIC VI 21 16 25 09.0–.68 1.84S 100.15E 42–5 5.1b,4.6
ISC Event type fe.
MOS Error ellipse: s-maj=11.9km s-min=5.6km az=109.4.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.9km az=147.4.
IDC Error ellipse: s-maj=15.0km s-min=8.8km az=58.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=59.0. Felt [III] at Padang and Padangpanjang.
(162) South Island
WEL VI 21 16 36 31.1–.13 43.60S 172.74E 7–0 2.8L
¶601027769
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(162) South Island
WEL VI 21 17 16 57.3–.23 43.58S 172.53E 10–2 3.9L
¶16646154
WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.2km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 21 19 03 55.7–1.9 38.99N–.04 142.46E–.07 11–11 3.9b,3.6s 37 1-88
NIED VI 21 19 03 00 39.00N 142.40E 35 4.1W,3.6s **¶17206695**
ISCJB VI 21 19 03 55.6–.99 38.98N–.03 142.50E–.06 21–6 3.8b,3.7s
JMA VI 21 19 03 57.4–.10 39.03N 142.41E 30–2 4.1,3.7s
IDC VI 21 19 03 59.8–2.8 38.94N 142.41E 40–26 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ49.00000°,λ-139.00000°. NP2:ϕ_s134.00000°,δ60.00000°,λ-49.00000°. $M_0$1.37000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.9km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=15.0km az=100.0.
(135) Near coast of central Chile
ISC VI 21 19 43 03.7–2.0 34.28S–.04 72.42W–.08 5–12 4.7b 51 0-166
IDC VI 21 19 43 03.0–1.3 34.37S 72.27W 0 3.9,3.8 **¶16731161**
ISCJB VI 21 19 43 05.6–1.1 34.34S–.03 72.39W–.07 23–7 4.6b,3.0s
NEIC VI 21 19 43 07.0 34.31S 72.25W 25 4.0L,3.0s
GUC VI 21 19 43 07.2–.65 34.31S 72.25W 25–4 4.0L,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=70.8km s-min=28.8km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.3km az=19.1.
NEIC Event type fe. Felt [III] at Pichilemu. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=4.6km az=-1.0.
(238) Ryukyu Islands
ISC VI 21 20 18 38.9–.45 26.02N–.04 128.52E–.04 21–3 4.6b,4.0s 282 1-96
NIED VI 21 20 18 00 26.00N 128.70E 11 4.5W,4.0s **¶16643042**
BJI VI 21 20 18 30.7 25.75N 128.83E 6 4.8b,4.6b
IDC VI 21 20 18 35.5–.64 26.10N 128.43E 0 4.3,4.2
ISCJB VI 21 20 18 36.6–.69 26.02N–.02 128.50E–.03 19–4 4.6b,4.1s
NEIC VI 21 20 18 37.6–1.3 26.05N 128.35E 13–7 4.8b,4.1s
JMA VI 21 20 18 37.2–.30 26.04N 128.66E 32 4.6,4.1s
MOS VI 21 20 18 39.1–1.2 26.08N 128.45E 36 4.9b,4.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ36.00000°,λ119.00000°. NP2:ϕ_s28.00000°,δ59.00000°,λ70.00000°. $M_0$6.20000×10^{15}
IDC Error ellipse: s-maj=21.6km s-min=12.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=41.6.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=122.0. Felt at Ginowan, Okinawa.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.7km az=112.0.
(135) Near coast of central Chile
ISC VI 21 20 20 34.5–1.6 34.24S–.03 72.26W–.07 18–8 4.3b,3.2s 52 0-157
ISCJB VI 21 20 20 33.4–1.1 34.32S–.04 72.46W–.06 22–8 4.2b,3.3s **¶16731164**
GUC VI 21 20 20 35.1–.58 34.30S 72.31W 28–5 4.2L,3.3s
NEIC VI 21 20 20 38.9–1.2 34.18S 72.21W 50–10 4.4b,3.3s
IDC VI 21 20 20 41.6–3.8 34.23S 71.99W 74–34 4.0L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=28.7.
GUC Error ellipse: s-maj=1.5km s-min=3.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=17.6km s-min=7.8km az=85.0. Felt [IV] at Pichilemu; [III] at Peralillo and Santa Cruz; [II] at Duao, Iloca, Navidad, Paredones and Rancagua.
IDC Error ellipse: s-maj=46.9km s-min=26.1km az=99.0.
(228) Near east coast of eastern Honshu
ISC VI 21 20 26 58.2–2.3 37.28N–.07 141.5E–.10 33–4 3.5b 15 0-57
IDC VI 21 20 26 57.5–2.2 37.87N 141.19E 0 3.5,3.5b **¶17206698**
JMA VI 21 20 26 59.5–.10 37.29N 141.38E 46–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=28.9km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(162) South Island
WEL VI 21 20 33 03.2–.09 43.60S 172.52E 8–1 3.8L
¶16646155
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 21 21 15 59.9–.37 36.26N–.03 141.81E–.03 24–2 4.9b,4.6s 679 1-152
NIED VI 21 21 15 00 36.30N 141.80E 14 4.8W,4.6s **¶600646587**
IDC VI 21 21 15 55.8–.49 36.21N 141.88E 0 5.0,4.9
BJI VI 21 21 15 58.2 36.40N 141.59E 21 5.1b,5.0b
JMA VI 21 21 15 58.6–.30 36.29N 141.85E 73 5.0,5.0b
NEIC VI 21 21 16 00.7–.12 36.23N 141.72E 27 4.9b,5.0b
ISCJB VI 21 21 16 00.7–.35 36.27N–.02 141.74E–.02 38–2 4.9b,4.5s
MOS VI 21 21 16 01.2–.78 36.57N 141.71E 31 5.3b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ17.00000°,λ96.00000°. NP2:ϕ_s21.00000°,δ73.00000°,λ88.00000°. $M_0$1.87000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.0. Recorded [2 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=135.2.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=111.7.
(228) Near east coast of eastern Honshu
ISC VI 21 21 52 40.7–1.7 38.84N–.05 142.1E–.10 45–13 3.8b 24 0-67
NIED VI 21 21 52 00 38.90N 142.00E 50 3.9W **¶17206702**
IDC VI 21 21 52 32.9–2.1 39.10N 142.73E 0 3.9,3.9
ISCJB VI 21 21 52 40.9–1.1 38.87N–.04 142.0E–.10 55–7 3.8b,3.9
JMA VI 21 21 52 42.0–.10 38.89N 141.97E 50–1 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ38.00000°,λ65.00000°. NP2:ϕ_s213.00000°,δ56.00000°,λ108.00000°. $M_0$7.87000×10^{14}
IDC Error ellipse: s-maj=55.9km s-min=24.1km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=16.9km s-min=7.1km az=9.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC VI 21 21 56 09.4–.89 37.00N–.03 140.63E–.04 15–7 3.6b 23 0-57
ISCJB VI 21 21 56 09.5–.56 37.00N–.03 140.70E–.05 19–5 3.5b **¶17206703**
JMA VI 21 21 56 10.1 37.00N 140.61E 9–1 3.7
IDC VI 21 21 56 14.7–5.0 37.11N 140.60E 54–42 3.5,3.5L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.9km az=10.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s303.00000°,δ57.00000°,λ-57.00000°. NP2:ϕ_s73.00000°,δ46.00000°,λ-130.00000°. Principal axes: T Plg6.0000°,Azm10.0000°; N Plg27.0000°,Azm103.0000°; P Plg62.0000°,Azm268.0000°
IDC Error ellipse: s-maj=37.4km s-min=21.7km az=46.0.
(546) Austria
ISC VI 21 22 14 31.8–.77 47.25N–.01 11.26E–.01 10–4 367 0-8
ISCJB VI 21 22 14 30.7–.20 47.30N–.01 11.21E–.01 2–1 **¶16643045**
ROM VI 21 22 14 31.9–.15 47.24N 11.27E 10 2.6L
VIE VI 21 22 14 31.8–.19 47.23N 11.24E 9–2 2.9L,2.3b
CSEM VI 21 22 14 31.7–.08 47.27N 11.27E 2 3.1L,2.3b
IASPE VI 21 22 14 31.8–.86 47.25N–.02 11.23E–.02 10–5 3.1L,2.3b
BGR VI 21 22 14 33.1–.20 47.23N 11.26E 10 2.7L,2.3b
PRU VI 21 22 14 33.7 47.32N 11.31E 4 2.7L,2.3b
LDG VI 21 22 14 33.7–.13 47.25N 11.31E 5 2.9L,2.3b
STR VI 21 22 14 37.7–.28 47.30N 10.88E 5 2.9L,2.3b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.5km az=162.6.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.2km az=167.0.
VIE Event type ke. Error ellipse: s-maj=1.2km s-min=1.0km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=156.0.
IASPE Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=6.8. GT5 selection from ISC bulletin. GT5 identified by Bond˜jr and McLaughlin (2009) selection criteria. Bond˜jr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
BGR Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=167.0. Reports of slight damage of buildings like fissures in the plastering in the epicentral region.
PRU Near Innsbruck.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=25.0.
STR Event type ke.
(162) South Island

WEL VI 22 00 35 38.0–.06 43.59S 172.52E 9–0 3.5L
¶601027780
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 22 00 57 18.4–2.2 37.34N–.05 141.45E–.06 2–13 3.6b 27 0-147
NIED VI 22 00 57 00 37.40N 141.30E 20 3.7W **¶600646691**
ISCJB VI 22 00 57 18.8–1.3 37.33N–.04 141.51E–.07 17–8 3.6b
IDC VI 22 00 57 18.0–.81 37.35N 141.47E 0 3.8,3.7L
JMA VI 22 00 57 21.9–.20 37.35N 141.31E 31–1 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ49.00000°,λ-125.00000°. NP2:ϕ_s203.00000°,δ52.00000°,λ-57.00000°. M_o4.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.9km az=23.8.
IDC Error ellipse: s-maj=22.0km s-min=17.5km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(228) Near east coast of eastern Honshu
ISC VI 22 01 39 34.4–1.2 39.17N–.05 142.22E–.09 54–9 4.1b 37 0-88
NIED VI 22 01 39 00 39.20N 142.20E 53 4.1W **¶17206717**
ISCJB VI 22 01 39 33.7–.76 39.19N–.04 142.19E–.10 60–5 4.0b
JMA VI 22 01 39 34.5 39.18N 142.18E 52–1 4.0
IDC VI 22 01 39 38.8–2.4 39.14N 142.05E 96–22 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ30.00000°,λ82.00000°. NP2:ϕ_s216.00000°,δ60.00000°,λ94.00000°. M_o1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=6.7km az=17.3.
JMA Event type fe.
IDC Error ellipse: s-maj=19.3km s-min=14.1km az=76.0.
(228) Near east coast of eastern Honshu
ISC VI 22 03 17 41.9–3.1 37.78N–.04 141.87E–.06 8–20 3.7b,3.4s 34 1-146
NIED VI 22 03 17 00 37.80N 141.80E 11 3.8W,3.4s **¶17206721**
IDC VI 22 03 17 40.8–.85 37.73N 142.04E 0 4.3L,4.0
ISCJB VI 22 03 17 42.2–1.0 37.75N–.03 141.92E–.06 19–7 3.6b,3.5s
JMA VI 22 03 17 44.2–.10 37.79N 141.81E 32–3 4.1,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ51.00000°,λ-156.00000°. NP2:ϕ_s161.00000°,δ72.00000°,λ-41.00000°. M_o5.02000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=15.4km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(162) South Island
WEL VI 22 03 19 40.2–.07 43.57S 172.42E 9–1 3.5L
¶601027787
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
JMA VI 22 03 49 07.1–.10 38.47N 142.23E 41–1 3.5
¶600646793
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 22 04 28 07.2–1.9 37.53N–.05 141.59E–.09 27–12 26 1-58
IDC VI 22 04 28 01.1–2.5 37.65N 141.89E 0 3.4,3.4b **¶600646824**
JMA VI 22 04 28 09.8–.10 37.52N 141.38E 50–1 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=48.5km s-min=37.4km az=40.0.
JMA Event type fe.
(162) South Island
WEL VI 22 08 26 57.8–.11 43.51S 172.16E 10–1 3.8L
NEIC VI 22 08 26 57.5 43.50S 172.16E 5 3.8L **¶16646156**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
(228) Near east coast of eastern Honshu
ISC VI 22 10 16 01.6–1.3 38.59N–.06 141.98E–.10 48–10 3.8b 31 1-76
NIED VI 22 10 16 00 38.60N 141.90E 50 4.0W **¶600647019**
ISCJB VI 22 10 16 01.5–.85 38.64N–.05 141.9E–.10 61–5 3.8b
JMA VI 22 10 16 02.3–.10 38.64N 141.91E 49–1 3.9
IDC VI 22 10 16 03.9–2.5 38.63N 141.87E 67–21 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ21.00000°,λ52.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ103.00000°. M_o1.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.7km az=27.7.
JMA Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=18.0km az=125.0.
(228) Near east coast of eastern Honshu
ISC VI 22 11 35 09.6–.94 35.54N–.04 141.10E–.05 33–6 4.4b,3.6s 131 0-148
NIED VI 22 11 35 00 35.60N 141.00E 47 4.5W,3.6s **¶16646388**
BJI VI 22 11 35 06.0 35.44N 141.16E 35 4.9b,4.7s
MOS VI 22 11 35 07.7–1.1 35.55N 141.14E 33 4.6b,4.7s
ISCJB VI 22 11 35 08.1–.54 35.55N–.03 141.14E–.05 36–4 4.3b,3.6s
JMA VI 22 11 35 09.6–.10 35.56N 141.03E 38–1 3.9,3.6s
NEIC VI 22 11 35 10.0–.67 35.52N 141.09E 36–5 4.6b,3.6s
IDC VI 22 11 35 11.2–1.6 35.47N 140.97E 45–15 4.2,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ20.00000°,λ100.00000°. NP2:ϕ_s9.00000°,δ71.00000°,λ87.00000°. M_o6.79000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=6.0km az=115.8.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.0km az=111.0. Felt at Chiba. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=18.6km s-min=9.4km az=90.0.
(228) Near east coast of eastern Honshu
ISC VI 22 13 50 55.7–1.4 38.81N–.06 142.2E–.20 36–5 3.5b 23 0-63
IDC VI 22 13 50 50.1–1.2 38.63N 142.51E 0 3.6,3.4 **¶600647176**
ISCJB VI 22 13 50 54.5–1.3 38.78N–.05 142.2E–.10 42–12 3.4b,3.4
JMA VI 22 13 50 54.5–.10 38.79N 142.20E 36–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=24.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=7.3km az=20.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(130) Catamarca Province
ISC VI 22 13 57 30.9–.26 28.00S–.03 66.67W–.04 163–2 5.3b 1183 1-176
ISCJB VI 22 13 57 28.6–.37 27.87S–.03 66.58W–.03 151–3 5.2b **¶16644203**
SJA VI 22 13 57 29.7–.69 28.10S 66.66W 180–7 5.3L,5.0W
IDC VI 22 13 57 31.2–.32 27.98S 66.57W 163–2 5.4,5.0
NEIC VI 22 13 57 31.2–.12 27.96S 66.56W 164 5.3b,5.3
MOS VI 22 13 57 31.6–1.1 27.76S 66.64W 168 5.3b,5.3
GUC VI 22 13 57 31.1–.70 27.99S 66.79W 126–146 5.7W,5.3
GCMT VI 22 13 57 31.2–.20 28.24S 66.82W 174–1 5.3W,5.3
BJI VI 22 13 57 32.0 27.90S 66.50W 153 5.2b,5.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=140.7.
SJA Error ellipse: s-maj=3.7km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=7.5km az=70.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=62.0. Felt [IV] at Catamarca, Tinogasta and in northern La Rioja. Also felt at Cordoba. Felt [III] at Caldera and [II] at Copiapo and Tierra Amarilla, Chile.
MOS Error ellipse: s-maj=13.1km s-min=6.8km az=107.0.
GUC Error ellipse: s-maj=3.6km s-min=40.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c89; s105,c163; Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.31±.03 $M_{\theta\theta}$-0.36±.03; $M_{\phi\phi}$0.05±.04; $M_{r\theta}$0.79±.02; $M_{\theta\phi}$-0.74±.03; $M_{\phi r}$-0.33±.02; Best double couple: NP1:ϕ_s94.00000°,δ78.00000°,λ133.00000°. NP2:ϕ_s196.00000°,δ44.00000°,λ17.00000°. Principal axes: T 1.2520,Plg40.0000°,Azm43.0000°; N -0.1540,Plg42.0000°,Azm263.0000° ; P -1.0990,Plg21.0000°,Azm152.0000° M_o1.17500×10^{17}
(228) Near east coast of eastern Honshu
ISC VI 22 14 28 57.7–.42 40.01N–.03 142.91E–.03 34–1 5.3s,5.2b 1221 1-161
NIED VI 22 14 28 00 40.10N 142.90E 32 5.6W,5.2b **¶16644204**
IDC VI 22 14 28 52.7–.41 40.03N 142.91E 0 5.3,5.3s
JMA VI 22 14 28 55.7–.20 40.06N 142.91E 23–2 5.5,5.3s
ISCJB VI 22 14 28 57.0–.29 40.04N–.02 142.89E–.02 37–2 5.4s,5.2b
BJI VI 22 14 28 56.2 39.97N 142.79E 41 5.6s,5.5b
MOS VI 22 14 28 57.7–.82 40.24N 142.75E 34 5.6s,5.5b
NEIC VI 22 14 28 59.2–.36 40.05N 142.78E 43–3 5.3s,5.2b
GCMT VI 22 14 28 59.2–.10 40.13N 142.89E 32–0 5.7W,5.2b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s31.00000°,δ68.00000°,λ102.00000°. M_o2.74000×10^{17}
IDC Error ellipse: s-maj=14.0km s-min=10.6km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=151.9.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=104.9.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=142.0. Felt at Sendai. Recorded [3 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c199; s128,c301;Duration: 1τ6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.28±.04 $M_{\theta\theta}$-0.12±.03; $M_{\phi\phi}$-2.16±.03; $M_{r\theta}$1.35±.05; $M_{\theta\phi}$-0.52±.02; $M_{\phi r}$2.75±.06; Best double couple: NP1:ϕ_s24.00000°,δ72.00000°,λ96.00000°. NP2:ϕ_s184.00000°,δ19.00000°,λ72.00000°. Principal axes: T 3.8520,Plg63.0000°,Azm303.0000°; N -0.0610,Plg6.0000°,Azm202.0000° ; P -3.7880,Plg27.0000°,Azm109.0000° M_o3.82000×10^{17}
(162) South Island
WEL VI 22 14 35 26.9–.06 43.60S 172.53E 10–0 3.7L
¶16646157
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 22 18 19 01.6–.76 36.42N–.04 140.70E–.06 57–6 4.1b,3.1s 54 0-91
ISCJB VI 22 18 19 00.6–.44 36.41N–.03 140.67E–.06 62–3 4.0b,3.1s **¶603244177**
NIED VI 22 18 19 00 36.40N 140.60E 59 4.1W,3.1s
NEIC VI 22 18 19 01.9–.79 36.42N 140.71E 60–7 4.6b,3.1s
JMA VI 22 18 19 02.4–.10 36.43N 140.55E 53–1 3.8,3.1s
IDC VI 22 18 19 03.1–1.6 36.40N 140.61E 69–16 4.0,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.0km az=13.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ43.00000°,λ21.00000°. NP2:ϕ_s26.00000°,δ76.00000°,λ131.00000°. M_o1.64000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.5km az=92.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.3km az=88.0.
(227) Eastern Honshu
ISC VI 22 18 56 54.9–1.2 36.80N–.04 138.59E–.03 2–12 21 0-57
ISCJB VI 22 18 56 54.4–.69 36.80N–.04 138.58E–.04 13–5 3.7b,2.9s **¶17206771**
JMA VI 22 18 56 54.6–.20 36.80N 138.59E 1–3 3.2,2.9s
IDC VI 22 18 56 54.4–2.0 36.80N 138.61E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.4km az=149.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ84.00000°,λ-8.00000°. NP2:ϕ_s107.00000°,δ82.00000°,λ-174.00000°. Principal axes: T Plg1.0000°,Azm62.0000°; N Plg80.0000°,Azm158.0000°; P Plg10.0000° ,Azm332.0000°
IDC Error ellipse: s-maj=12.7km s-min=12.1km az=57.0.
(229) Off east coast of Honshu
ISC VI 22 20 43 48.0–.88 37.68N–.05 144.35E–.04 12–4 4.9b,3.9s 592 2-144
NIED VI 22 20 43 00 37.60N 144.20E 20 4.7W,3.9s **¶16645785**
ISCJB VI 22 20 43 45.7–.82 37.71N–.03 144.28E–.02 5–5 4.8b,3.9s
IDC VI 22 20 43 45.3–.70 37.49N 144.42E 0 4.6,4.5
BJI VI 22 20 43 48.2 37.76N 144.00E 11 5.0b,4.8b
JMA VI 22 20 43 49.1–.20 37.59N 144.17E 57 4.7,4.8b
NEIC VI 22 20 43 49.2–1.7 37.70N 144.26E 14–10 5.1b,4.8b
MOS VI 22 20 43 51.2–.99 37.89N 144.22E 36 4.9b,4.8b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ76.00000°,λ-3.00000°. NP2:ϕ_s161.00000°,δ87.00000°,λ-166.00000°. M_o1.15000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=176.4.
IDC Error ellipse: s-maj=18.8km s-min=11.7km az=157.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=2.7km az=157.0. Felt at Tokyo.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=102.1.
(228) Near east coast of eastern Honshu
ISC VI 22 21 50 51.6–.30 39.98N–.02 142.46E–.02 32–1 6.7s,6.1b 2470 0-163
NIED VI 22 21 50 00 39.90N 142.60E 41 6.7W,6.1b **¶16645786**
BJI VI 22 21 50 46.6 39.85N 142.60E 20 7.0s,6.9
NEIC VI 22 21 50 48.0–.00 40.08N 142.77E 35 7.0s,6.9
MOS VI 22 21 50 49.9–.90 40.04N 142.35E 24 6.9s,6.3b
JMA VI 22 21 50 50.7 39.95N 142.59E 36–1 6.9,6.3b
ISCJB VI 22 21 50 52.8–.21 39.99N–.01 142.28E–.01 48–1 6.7s,6.1b
GCMT VI 22 21 50 52.3–.00 39.99N 142.51E 41–0 6.7W,6.1b
NEIC VI 22 21 50 52.4–.08 39.96N 142.21E 33 6.7s,6.7W
IDC VI 22 21 50 55.0–.79 39.96N 142.37E 60–6 6.7s,6.7
NEIC VI 22 21 51 11.2–.00 40.16N 142.30E 36 6.7s,6.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ20.00000°,λ92.00000°. NP2:ϕ_s14.00000°,δ70.00000°,λ89.00000°. M_o1.23000×10^{19}
NEIC Event type se. Moment Tensor Solution. s99 Moment tensor: Scale 10^{19}Nm; M_{rr}0.94 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$-0.90 $M_{r\theta}$0.26 $M_{\theta\phi}$-0.13 $M_{\phi r}$1.17 Best double couple: NP1:ϕ_s12.00000° ,δ71.00000°,λ92.00000°. NP2:ϕ_s185.00000°,δ19.00000°,λ84.00000°. Principal axes: T 1.5200,Plg63.0000°,Azm284.0000°; N -0.0200,Plg1.0000°,Azm190.0000° ; P -1.5000,Plg25.0000°,Azm100.0000° M_o1.50000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=3.4km az=101.1. Fault plane solution: P-wave C169, D85 . Felt (II) at Yuzhno-Kuril'sk, Malokuril'skoye. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s360.00000°,δ84.00000°,λ90.00000°. NP2: ϕ_s180.00000°,δ6.00000°,λ90.00000°. Principal axes: T Plg51.0000°,Azm270.0000° ; N Plg0.0000°,Azm180.0000°; P Plg39.0000°,Azm90.0000° M_o4.00000×10^{19}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s346.00000° ,δ62.00000°,λ81.00000°. NP2:ϕ_s186.00000°,δ29.00000°,λ108.00000°. Principal axes: T Plg71.0000°,Azm235.0000°; N Plg8.0000°,Azm350.0000°; P Plg17.0000°,Azm83.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=153.9.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c373; s141,c650;Duration: 5τ6 Moment tensor: Scale 10^{19} Nm; M_{rr}1.05±.01 $M_{\theta\theta}$0.04±.00; $M_{\phi\phi}$-1.09±.00; $M_{r\theta}$0.12±.01; $M_{\theta\phi}$-0.03±.00; $M_{\phi r}$1.12±.01; Best double couple: NP1:ϕ_s5.00000°,δ68.00000°,λ93.00000°. NP2:ϕ_s178.00000°,δ22.00000° ,λ83.00000°. Principal axes: T 1.5360,Plg67.0000°,Azm280.0000°; N 0.0420,Plg2.0000° ,Azm184.0000°; P -1.5730,Plg23.0000°,Azm93.0000° M_o1.55400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=150.0. Felt [V] at Misawa and [II] at Morioka. Also felt at Ichinoseki, Kawasaki, Kizukuri, Narita, Ota, Sendai, Tokyo and Yokohama. Felt [II] at Sapporo, Hokkaido. Also felt at Obihiro. Recorded [5L JMA] in Aomori and Iwate, Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o1.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ25.00000°,λ59.00000°. NP2:ϕ_s10.00000° ,δ69.00000°,λ103.00000°. Principal axes: T 0.9800,Plg63.0000°,Azm301.0000° ; N 0.1200,Plg12.0000°,Azm185.0000°; P -1.1000,Plg23.0000°,Azm90.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ10.00000° ,λ90.00000°. NP2:ϕ_s5.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000° ,Azm275.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm95.0000°
IDC Error ellipse: s-maj=7.3km s-min=5.7km az=100.0.
NEIC Event type se. Moment Tensor Solution. s146 Moment tensor: Scale 10^{19}Nm; M_{rr}1.00 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$-0.99 $M_{r\theta}$0.14 $M_{\theta\phi}$-0.06 $M_{\phi r}$1.19 Best double couple: NP1:ϕ_s181.00000° ,δ20.00000°,λ86.00000°. NP2:ϕ_s6.00000°,δ70.00000°,λ92.00000°. Principal axes: T 1.5600,Plg65.0000°,Azm279.0000°; N -0.0100,Plg1.0000°,Azm185.0000° ; P -1.5600,Plg25.0000°,Azm95.0000° M_o1.60000×10^{19}
(228) Near east coast of eastern Honshu
JMA VI 22 21 56 54.9–.10 39.99N 142.50E 32–2 3.7
¶600647421
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA VI 22 22 00 33.9–.10 40.01N 142.46E 33–1 3.7
¶600647423
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu

JMA VI 22 23 34 21.2 36.23N 141.07E 36–1 3.9
¶600647467
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA VI 22 23 47 49.8 37.37N 141.14E 34–1 3.8
¶600647471
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA VI 23 00 32 32.4–.10 40.01N 142.45E 37–1 3.6
¶600647485
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
(228) Near east coast of eastern Honshu
JMA VI 23 01 06 32.3–.10 40.00N 142.47E 35–1 3.5
¶600647502
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA VI 23 01 15 38.4–.10 36.25N 141.09E 32–1 3.5
¶600647508
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 23 03 11 48.6–1.3 39.94N–.05 142.2E–.10 44–9 3.9b 22 0-67
ISCJB VI 23 03 11 46.2–1.4 39.99N–.06 142.4E–.20 48–10 3.9b **¶17206793**
JMA VI 23 03 11 46.9–.10 39.98N 142.39E 40–1 3.8
IDC VI 23 03 11 52.0–3.0 39.91N 142.24E 88–25 3.8,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=20.0km s-min=8.5km az=167.8.
JMA Event type fe.
IDC Error ellipse: s-maj=51.5km s-min=22.4km az=93.0.
(42) Western Arizona
ISC VI 23 03 14 04.6–.65 36.99N–.02 112.25W–.03 10 116 0-69
IDC VI 23 03 14 01.0–.90 37.03N 112.36W 0 3.8,3.8b **¶16684543**
NEIC VI 23 03 14 01.0 36.96N 112.09W 1 3.4L,3.8b
ISCJB VI 23 03 14 03.1–.22 36.96N–.02 112.22W–.03 10 3.6b,3.8b
ISC Event type fe.
NEIC Event type fe. Felt at Marble Canyon. After SLC.
ISCJB Event type fe.
(136) Central Chile
ISC VI 23 04 21 08.6–1.4 35.41S–.04 70.74W–.05 4–10 4.4b 42 1-153
GUC VI 23 04 21 14.9–.39 35.27S 71.18W 69–1 4.3L **¶16731282**
NEIC VI 23 04 21 14.0 35.27S 71.18W 69 4.3
IDC VI 23 04 21 18.1–3.9 34.93S 71.26W 54–33 3.9,3.8
ISC Event type fe.
GUC Error ellipse: s-maj=1.9km s-min=4.4km az=-1.0.
NEIC Event type fe. Felt [III] at Lolol, Molina, Romeral, San Fernando, San Javier, Santa Cruz and Talca; [II] at Constitucion, Curico, Iloca, Linares, Maule, Paredones, Pencahue and Rancagua. After GUC.
IDC Error ellipse: s-maj=84.1km s-min=26.9km az=92.0.
(160) Off east coast of North Island
WEL VI 23 05 21 24.6–.10 39.15S 177.49E 30–1 3.5L
¶601027829
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Hawke"s Bay region, maximum reported intensity MM 4.
(146) Southern Argentina
ISC VI 23 06 36 04.0–.41 37.60S–.03 70.81W–.05 165–3 4.7b 646 0-176
SJA VI 23 06 35 57.4–.95 37.56S 72.23W 185–14 4.7W,4.1L **¶16646396**
ISCJB VI 23 06 36 02.1–.33 37.58S–.03 70.64W–.05 156–2 4.7b,4.1L
BJI VI 23 06 36 04.1 37.60S 70.60W 160 5.1b,4.1L
NEIC VI 23 06 36 04.6–.16 37.58S 70.48W 168 4.7b,4.1L
IDC VI 23 06 36 04.5–.62 37.79S 70.69W 171–5 4.8,4.4
GUC VI 23 06 36 05.1–.73 37.70S 70.81W 125–11 4.7L,4.4
ISC Event type fe.
SJA Error ellipse: s-maj=4.4km s-min=47.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=172.5.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=80.0. Felt [IV] at Angol, Cobquecura and Puerto Saavedra; [III] at Concepcion, Coronel, Lota, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at Constitucion and Talca. Also felt at Chillan.
IDC Error ellipse: s-maj=15.0km s-min=7.7km az=90.0.
GUC Error ellipse: s-maj=2.0km s-min=6.2km az=-1.0.
(366) Turkey
ISC VI 23 07 34 45.6–.40 38.55N–.01 39.61E–.01 10–2 5.2b,4.8s 1460 0-164
NEIC VI 23 07 34 42.7 38.58N 39.64E 6 5.4L,5.2b **¶16645799**
ISK VI 23 07 34 42.9 38.57N 39.62E 6 5.4L,5.2b
GCMT VI 23 07 34 42.7–.10 38.53N 39.57E 19–0 5.4W,5.2b
DDA VI 23 07 34 43.3 38.56N 39.63E 13 5.3L,5.2b
SFS VI 23 07 34 43.0 38.58N 39.96E 5 5.2L,5.2b
IDC VI 23 07 34 43.7–.39 38.53N 39.65E 0 4.8,4.8s
DSN VI 23 07 34 44.8–1.4 38.38N 39.54E 10 5.1b,4.8s
BJI VI 23 07 34 44.4 38.50N 39.70E 10 5.4b,5.2s
ISCJB VI 23 07 34 44.2–.09 38.54N–.01 39.67E–.01 10 5.0b,4.8s
MOS VI 23 07 34 44.2–1.1 38.57N 39.64E 10 5.3b,4.6s
CSEM VI 23 07 34 44.5–.07 38.54N 39.70E 2 5.4W,5.2b
ISN VI 23 07 34 51.1–.52 38.27N 40.32E 0–1 5.4L,5.2b
NSSC VI 23 07 34 52.7–2.0 38.00N 39.02E 36–41 5.0L,5.2b
ISC Event type fe.
NEIC Event type fe. Felt at Diyarbakir, Elazig and Gaziantep. After ISK. Moment Tensor Solution. s23 Moment tensor: Scale 10^{16}Nm; M_{rr}0.60 $M_{\theta\theta}$-4.93 $M_{\phi\phi}$4.33 $M_{r\theta}$1.03 $M_{\theta\phi}$5.06 $M_{\phi r}$-3.84 Best double couple: NP1:ϕ_s250.00000°,δ60.00000°,λ5.00000°. NP2:ϕ_s157.00000° ,δ86.00000°,λ150.00000°. Principal axes: T 7.9400,Plg24.0000°,Azm110.0000° ; N 0.0000,Plg60.0000°,Azm330.0000°; P -7.9500,Plg17.0000°,Azm208.0000° $M_0$7.90000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c134; s127,c246; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.02 $M_{\theta\theta}$-0.86±.02; $M_{\phi\phi}$0.71±.02; $M_{r\theta}$0.23±.04; $M_{\theta\phi}$1.11±.02; $M_{\phi r}$-0.15±.04; Best double couple: NP1:ϕ_s343.00000°,δ84.00000° ,λ-172.00000°. NP2:ϕ_s252.00000°,δ82.00000°,λ-6.00000°. Principal axes: T 1.2930,Plg1.0000°,Azm117.0000°; N 0.1860,Plg80.0000°,Azm20.0000° ; P -1.4790,Plg10.0000°,Azm207.0000° $M_0$1.38600×10^{17}
DDA Event type ke.
SFS Event type ke.
IDC Error ellipse: s-maj=9.2km s-min=7.0km az=163.0.
DSN Error ellipse: s-maj=21.6km s-min=5.8km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.2km az=178.0.
MOS Error ellipse: s-maj=4.4km s-min=2.9km az=108.9.
CSEM Event type ke.
ISN Error ellipse: s-maj=3.8km s-min=3.2km az=-1.0.
NSSC Error ellipse: s-maj=24.8km s-min=8.2km az=-1.0.
(227) Eastern Honshu
ISC VI 23 08 09 29.4–1.1 37.00N–.04 140.54E–.03 13–9 3.3b 21 0-57
IDC VI 23 08 09 28.0–1.4 36.95N 140.62E 0 3.8,3.5 **¶17206806**
ISCJB VI 23 08 09 29.6–.54 36.99N–.03 140.57E–.04 16–7 3.5b,3.5
JMA VI 23 08 09 29.7 37.00N 140.51E 5–2 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=23.7km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=39.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s136.00000°,δ52.00000°,λ-79.00000°. NP2:ϕ_s298.00000°,δ39.00000°,λ-104.00000°. Principal axes: T Plg7.0000°,Azm218.0000°; N Plg9.0000°,Azm309.0000°; P Plg79.0000° ,Azm90.0000°
(228) Near east coast of eastern Honshu
ISC VI 23 08 22 21.7–1.5 39.95N–.04 142.67E–.06 16–9 4.0b 37 1-116
JMA VI 23 08 22 24.7–.10 39.94N 142.48E 35–1 4.0 **¶16731295**
IDC VI 23 08 22 29.5–2.7 39.84N 142.39E 81–23 4.0,3.8
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=21.3km s-min=15.0km az=107.0.
(228) Near east coast of eastern Honshu
ISC VI 23 08 22 49.3–.43 36.99N–.04 141.25E–.04 53–3 4.6b,3.9s 272 0-155
NIED VI 23 08 22 00 37.10N 141.20E 11 4.7W,3.9s **¶17206807**
MOS VI 23 08 22 46.8–.92 37.00N 141.04E 40 4.8b,3.9s
NEIC VI 23 08 22 48.9–.30 37.22N 141.13E 35 4.7b,3.9s
ISCJB VI 23 08 22 48.5–.38 37.03N–.02 141.21E–.04 55–2 4.6b,3.8s
JMA VI 23 08 22 49.3–.10 37.07N 141.17E 50–1 4.5,3.8s
BJI VI 23 08 22 49.0 36.96N 141.08E 65 5.0b,4.7b
IDC VI 23 08 22 49.7–.41 37.01N 141.25E 54–3 4.4,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ53.00000°,λ-176.00000°. NP2:ϕ_s15.00000°,δ87.00000°,λ-37.00000°. $M_0$1.32000×10^{16}
MOS Error ellipse: s-maj=10.2km s-min=5.7km az=109.1.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=5.2km az=155.0. Felt at Ichinoseki and Niiza. Recorded [2 JMA] in Aomori and Iwate.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.7km az=31.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.0km s-min=7.1km az=139.0.
(228) Near east coast of eastern Honshu
ISC VI 23 10 15 57.7–.87 39.97N–.04 142.43E–.05 42–7 4.3b 141 0-88
NIED VI 23 10 15 00 40.00N 142.40E 44 4.4W **¶16646399**
MOS VI 23 10 15 54.7–1.1 39.94N 142.27E 32 4.5b
ISCJB VI 23 10 15 56.6–.48 39.99N–.03 142.42E–.05 49–3 4.3b,3.6s
JMA VI 23 10 15 56.8–.10 39.97N 142.42E 38–1 4.3,3.6s
BJI VI 23 10 15 56.1 40.10N 142.20E 35 4.9b,4.6b
NEIC VI 23 10 15 57.2–.48 40.04N 142.42E 35 4.7b,4.6b
IDC VI 23 10 15 59.1–2.1 39.98N 142.36E 58–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ18.00000°,λ72.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ96.00000°. $M_0$4.72000×10^{15}
MOS Error ellipse: s-maj=11.8km s-min=6.3km az=99.6.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.4km az=25.5.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=6.6km az=121.0. Recorded [2 JMA] in Aomori.
IDC Error ellipse: s-maj=16.4km s-min=11.5km az=114.0.
(228) Near east coast of eastern Honshu
ISC VI 23 10 35 01.6–.26 38.50N–.03 141.66E–.03 53–1 5.3b,4.6s 1326 0-160
MOS VI 23 10 34 57.8–.85 38.47N 141.44E 31 5.6b,4.6s **¶16646161**
BJI VI 23 10 34 57.8 38.37N 141.89E 54 5.3b,5.1b
NEIC VI 23 10 35 00.2–.09 38.48N 141.44E 35 5.3b,5.1b
NIED VI 23 10 35 00 38.50N 141.60E 59 5.3W,5.1b
GCMT VI 23 10 35 00.2–.10 38.55N 141.62E 57–0 5.3W,5.1b
IDC VI 23 10 35 01.8–.35 38.47N 141.52E 54–2 5.1,4.9
JMA VI 23 10 35 02.2 38.47N 141.61E 57–1 5.3,4.9
ISCJB VI 23 10 35 02.3–.19 38.51N–.02 141.49E–.02 67–1 5.2b,4.9
ISC Event type fe.
NEIC Event type fe. Felt at Chiba, Ichinoseki and Morioka. Recorded [4 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ69.00000°,λ99.00000°. $M_0$9.60000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c158; s113,c220;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.92±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.82±.01; $M_{r\theta}$0.33±.01; $M_{\theta\phi}$-0.24±.01; $M_{\phi r}$0.64±.01; Best double couple: NP1:ϕ_s23.00000°,δ64.00000°,λ95.00000°. NP2:ϕ_s191.00000° ,δ26.00000°,λ79.00000°. Principal axes: T 1.1770,Plg70.0000°,Azm304.0000° ; N -0.0360,Plg5.0000°,Azm201.0000°; P -1.1410,Plg19.0000°,Azm109.0000° $M_0$1.15900×10^{17}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s35.00000°,δ75.00000°,λ95.00000°. NP2:ϕ_s195.00000°,δ16.00000°,λ70.00000°. Principal axes: T Plg59.0000°,Azm313.0000°; N Plg5.0000°,Azm214.0000°; P Plg30.0000° ,Azm121.0000°
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 23 11 13 55.2–2.0 39.18N–.04 142.39E–.09 26–12 3.6b 30 1-88
NIED VI 23 11 13 00 39.20N 142.40E 35 3.8W **¶600647748**
ISCJB VI 23 11 13 55.3–.99 39.16N–.04 142.40E–.09 39–9 3.6b
JMA VI 23 11 13 55.1–.10 39.19N 142.40E 29–1 3.9
IDC VI 23 11 13 59.3–2.4 39.12N 142.51E 66–22 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ27.00000°,λ-173.00000°. NP2:ϕ_s189.00000°,δ87.00000°,λ-63.00000°. $M_0$5.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.6km az=9.4.
JMA Event type fe.
IDC Error ellipse: s-maj=25.1km s-min=16.6km az=87.0.
(235) Kyushu
ISC VI 23 11 38 33.6–.31 30.26N–.04 131.59E–.03 34–0 5.0b,4.7s 658 1-162
NIED VI 23 11 38 00 30.20N 131.60E 14 5.0W,4.7s **¶16646093**
ISCJB VI 23 11 38 31.3–.59 30.28N–.02 131.53E–.02 26–4 5.0b,4.6s
JMA VI 23 11 38 31.8–.10 30.25N 131.61E 50–2 4.7,4.6s
MOS VI 23 11 38 32.9–.95 30.42N 131.41E 33 5.1b,4.6s
GCMT VI 23 11 38 32.9–.20 30.37N 131.58E 13–0 5.1W,4.6s
BJI VI 23 11 38 32.3 30.04N 131.73E 55 5.0b,4.8s
NEIC VI 23 11 38 32.9–1.0 30.28N 131.47E 26–7 5.2b,4.8s
IDC VI 23 11 38 35.1–.45 30.36N 131.48E 46–3 4.6s,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ45.00000°,λ-116.00000°. NP2:ϕ_s237.00000°,δ51.00000°,λ-66.00000°. $M_0$3.54000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.6km az=151.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=99.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c80; s89,c165; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.42±.15 $M_{\theta\theta}$-0.17±.09; $M_{\phi\phi}$4.59±.11; $M_{r\theta}$0.59±.27; $M_{\theta\phi}$1.45±.07; $M_{\phi r}$1.94±.25; Best double couple: NP1:ϕ_s196.00000°,δ57.00000° ,λ-89.00000°. NP2:ϕ_s15.00000°,δ33.00000°,λ-91.00000°. Principal axes: T 5.4150,Plg12.0000°,Azm286.0000°; N -0.5780,Plg1.0000°,Azm16.0000° ; P -4.8380,Plg78.0000°,Azm108.0000° $M_0$5.12600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=148.0. Recorded [2 JMA] in Kagoshima.
IDC Error ellipse: s-maj=11.6km s-min=7.6km az=71.0.
(533) United Kingdom
ISC VI 23 13 43 37.0–.94 50.52N–.02 3.66W–.02 19–3 174 0-8
ISCJB VI 23 13 43 36.1–.61 50.45N–.02 3.53W–.06 18–8 **¶16646400**
CSEM VI 23 13 43 37.2–.10 50.50N 3.66W 15 3.4L
LDG VI 23 13 43 37.4–.10 50.58N 3.75W 10 3.4L,3.1
NEIC VI 23 13 43 38.1 50.57N 3.73W 3 2.7L,3.1
BGS VI 23 13 43 38.1–.46 50.57N 3.73W 3–4 2.7L,3.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.5km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.9km az=64.0.
LDG Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=62.0.
NEIC Event type fe. Felt [IV] in Devon. After BGS.
BGS Error ellipse: s-maj=1.9km s-min=2.3km az=-1.0.
(228) Near east coast of eastern Honshu
ISC VI 23 16 25 29.9–2.0 36.08N–.05 141.19E–.07 5–13 3.5b 17 0-60
NIED VI 23 16 25 00 36.20N 141.00E 23 3.3W **¶17206823**
IDC VI 23 16 25 30.1–1.4 35.93N 141.05E 0 3.6,3.4
JMA VI 23 16 25 33.6 36.17N 141.00E 38–1 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ44.00000°,λ-87.00000°. NP2:ϕ_s4.00000°,δ46.00000°,λ-92.00000°. $M_0$9.26000×10^{13}
IDC Error ellipse: s-maj=29.1km s-min=26.3km az=84.0.
JMA Event type fe.
(230) Near south coast of eastern Honshu
ISC VI 23 18 48 02.1–1.1 34.60N–.03 139.27E–.04 7–8 3.3b 23 0-52
NIED VI 23 18 48 00 34.60N 139.20E 5 3.8W **¶16731318**
IDC VI 23 18 48 00.5–1.2 34.57N 139.32E 0 3.9L,3.7
ISCJB VI 23 18 48 01.7–.59 34.59N–.03 139.25E–.06 12–4 3.2b,2.8s
JMA VI 23 18 48 02.1 34.62N 139.25E 10–1 3.6,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ62.00000°,λ-17.00000°. NP2:ϕ_s289.00000°,δ75.00000°,λ-151.00000°. $M_0$5.41000×10^{14}
IDC Error ellipse: s-maj=28.9km s-min=16.3km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.7km az=162.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s1.00000°,δ71.00000°,λ-22.00000°. NP2:ϕ_s98.00000°,δ69.00000°,λ-159.00000°. Principal axes: T Plg1.0000°,Azm50.0000°; N Plg61.0000°,Azm142.0000°; P Plg29.0000° ,Azm319.0000°

(228) Near east coast of eastern Honshu
ISC VI 23 19 15 42.2–2.0 36.45N–.05 141.04E–.07 5–12 3.5b 19 0-60
NIED VI 23 19 15 00 36.50N 141.00E 5 3.6W **¶17206828**
ISCJB VI 23 19 15 40.4–1.2 36.43N–.04 141.12E–.06 5–7 3.5b
IDC VI 23 19 15 41.0–1.2 36.31N 141.15E 0 3.6,3.5
JMA VI 23 19 15 43.4 36.49N 140.96E 17–1 4.1,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ51.00000°,λ-140.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ-47.00000°. $M_0$3.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=6.8km az=13.9.
IDC Error ellipse: s-maj=29.8km s-min=21.1km az=81.0.
JMA Event type fe.
(162) South Island
WEL VI 23 19 59 50.1–.17 43.57S 172.78E 5 3.6L
¶16681158
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 23 20 58 49.2–2.5 40.06N–.05 142.4E–.10 23–14 3.7b 23 0-60
NIED VI 23 20 58 00 40.00N 142.40E 53 3.6W **¶17206833**
JMA VI 23 20 58 49.9–.10 40.04N 142.41E 38–1 3.7
IDC VI 23 20 58 54.6–3.2 40.42N 141.02E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ30.00000°,λ5.00000°. NP2:ϕ_s333.00000°,δ88.00000°,λ120.00000°. $M_0$2.57000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=89.8km s-min=28.0km az=69.0.
(228) Near east coast of eastern Honshu
ISC VI 23 21 05 41.9–2.2 38.37N–.05 142.35E–.09 5–12 19 1-62
ISCJB VI 23 21 05 44.0–1.6 38.36N–.05 142.35E–.09 19–9 3.5b **¶17206835**
IDC VI 23 21 05 43.4–13 38.23N 142.79E 0 3.7,3.6b
JMA VI 23 21 05 46.0–.10 38.47N 142.28E 27–2 3.9,3.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=8.2km az=8.6.
IDC Error ellipse: s-maj=274.3km s-min=58.5km az=8.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(398) Sicily
ISC VI 23 22 02 47.6–.83 38.06N–.02 14.81E–.02 9–5 4.2b,3.9s 930 0-127
NEIC VI 23 22 02 46.0 38.06N 14.76E 7 4.3b,4.1L **¶16649785**
ROM VI 23 22 02 46.7–.17 38.06N 14.78E 7–1 4.4L,4.1L
MOS VI 23 22 02 46.8–.93 38.10N 14.85E 14 4.6b,4.1L
CRAAG VI 23 22 02 46.0 38.06N 14.76E 4.2b,4.1L
LDG VI 23 22 02 46.5–.11 38.04N 14.83E 10 3.9L,4.1L
PDG VI 23 22 02 47.6–.80 38.03N 14.84E 20–1 4.2L,4.1L
CSEM VI 23 22 02 48.3–.08 38.06N 14.88E 10 5.2L,4.4b
IDC VI 23 22 02 49.3–1.8 38.07N 14.73E 22–14 4.1,4.1
THE VI 23 22 02 51.2 38.06N 15.01E 33–74 4.5L,4.1
ISC Event type fe.
NEIC Event type fe. Felt in the Catania-Messina-Palermo area. After ROM.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=137.0.
MOS Error ellipse: s-maj=6.1km s-min=3.3km az=64.2.
LDG Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=29.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=0.9km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=6.0.
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=113.0.
THE Event type ke. Error ellipse: s-maj=74.0km s-min=1.6km az=0.0.
(228) Near east coast of eastern Honshu
JMA VI 23 22 22 31.5–.10 37.21N 141.20E 22–1 3.6
NIED VI 23 22 22 00 37.20N 141.20E 11 3.2W **¶600648095**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ46.00000°,λ-35.00000°. NP2:ϕ_s178.00000°,δ65.00000°,λ-130.00000°. $M_0$7.03000×10^{13}
(232) Western Honshu
JMA VI 23 22 47 16.1 35.14N 135.89E 11 2.8
¶600648102
JMA Event type fe.
(227) Eastern Honshu
ISC VI 24 00 36 41.3–1.0 37.67N–.03 139.93E–.03 10–7 3.9b 39 0-91
NIED VI 24 00 36 00 37.70N 139.90E 5 3.7W **¶16652958**
IDC VI 24 00 36 39.7–.88 37.66N 139.98E 0 4.0,3.8
ISCJB VI 24 00 36 41.5–.47 37.68N–.03 139.96E–.04 21–4 3.9b,3.8
JMA VI 24 00 36 41.4 37.68N 139.93E 9–1 3.7,3.8
NEIC VI 24 00 36 45.1–.50 37.67N 139.90E 35 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ47.00000°,λ120.00000°. NP2:ϕ_s354.00000°,δ51.00000°,λ62.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=12.6km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.0km az=41.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ58.00000°,λ131.00000°. NP2:ϕ_s351.00000°,δ50.00000°,λ44.00000°. Principal axes: T Plg56.0000°,Azm195.0000°; N Plg34.0000°,Azm25.0000°; P Plg5.0000° ,Azm292.0000°
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.4km az=136.0.
(228) Near east coast of eastern Honshu
ISC VI 24 01 00 15.4–1.1 36.40N–.05 140.70E–.07 52–8 3.5b 19 0-56
NIED VI 24 01 00 00 36.40N 140.60E 65 3.5W **¶17206840**
IDC VI 24 01 00 08.2–1.7 36.51N 140.87E 0 3.6,3.5
ISCJB VI 24 01 00 14.6–.72 36.40N–.05 140.68E–.08 59–5 3.4b,3.5
JMA VI 24 01 00 15.7–.10 36.37N 140.63E 53–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ19.00000°,λ138.00000°. NP2:ϕ_s14.00000°,δ77.00000°,λ75.00000°. $M_0$2.19000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=18.8km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.8km az=25.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s24.00000°,δ67.00000°,λ84.00000°. NP2:ϕ_s220.00000°,δ23.00000°,λ105.00000°. Principal axes: T Plg67.0000°,Azm283.0000°; N Plg6.0000°,Azm27.0000°; P Plg22.0000° ,Azm119.0000°
(228) Near east coast of eastern Honshu
ISC VI 24 01 21 45.0–1.1 38.88N–.06 142.1E–.10 51 3.8b 22 0-67
NIED VI 24 01 21 00 38.90N 142.10E 47 3.7W **¶17206841**
ISCJB VI 24 01 21 43.5–.90 38.84N–.05 142.12E–.09 51 3.8b
JMA VI 24 01 21 44.3–.10 38.85N 142.09E 45–1 3.6
IDC VI 24 01 21 48.8–3.6 38.79N 141.95E 87–32 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s11.00000°,δ71.00000°,λ92.00000°. $M_0$4.58000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.8km az=7.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.7km s-min=23.0km az=86.0.
(9) Fox Islands
ISC VI 24 03 09 38.9–.24 51.98N–.03 171.82W–.02 50–1 7.0s,6.9b 3051 1-161
IDC VI 24 03 09 37.1–1.4 52.02N 171.76W 32–9 6.9,6.9s **¶602897721**
BJI VI 24 03 09 37.8 51.85N 171.90W 60 7.3s,7.1b
MOS VI 24 03 09 37.8–.88 52.10N 171.78W 52 7.1b,7.0s
ISCJB VI 24 03 09 38.4–.25 52.00N–.01 171.71W–.01 58–2 7.0s,6.9b
GCMT VI 24 03 09 39.5–.10 52.09N 171.77W 74–0 7.3W,6.9b
NEIC VI 24 03 09 39.5–.08 52.05N 171.84W 52 7.4,7.3W
NEIC VI 24 03 09 39.0–.00 51.81N 171.67W 70 7.4,7.3W
ISC Event type fe.
IDC Error ellipse: s-maj=12.2km s-min=8.1km az=177.0.
MOS Error ellipse: s-maj=5.6km s-min=4.4km az=88.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ84.00000°,λ90.00000°. NP2: ϕ_s270.00000°,δ6.00000°,λ90.00000°. Principal axes: T Plg51.0000°,Azm0.0000° ; N Plg0.0000°,Azm270.0000°; P Plg39.0000°,Azm180.0000° $M_0$1.60000×10^{20}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.3km az=179.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s147,c411; s146,c741;Duration: 10≅3 Moment tensor: Scale 10^{19} Nm; M_{rr}-0.27±.03 $M_{\theta\theta}$1.71±.02; $M_{\phi\phi}$-1.44±.02; $M_{r\theta}$9.22±.10; $M_{\theta\phi}$1.84±.01; $M_{\phi r}$1.11±.03; Best double couple: NP1:ϕ_s265.00000°,δ87.00000°,λ-81.00000°. NP2:ϕ_s15.00000° ,δ10.00000°,λ-160.00000°. Principal axes: T 10.3700,Plg41.0000°,Azm347.0000° ; N -1.7940,Plg9.0000°,Azm85.0000°; P -8.5770,Plg48.0000°,Azm185.0000° $M_0$9.47400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.5km az=171.0. Felt [VI] at Nikolski and [II] at Dutch Harbor. Also felt at Adak, Anchorage, Cold Bay, Elmendorf AFB, Homer and Unalaska. Tsunami generated with wave heights [peak-to-trough] recorded at the following selected tide stations: 10 cm at Nikolski, 9 cm at Saint Paul, 6 cm on Adak and 4 cm on Akutan; 4 cm on Midway Island; 6 cm at Hilo and 4 cm at Nawiliwili, Hawaii. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.80000×10^{20} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s85.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm355.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm175.0000°
NEIC Event type se. Moment Tensor Solution. s132 Moment tensor: Scale 10^{19}Nm; M_{rr}0.70 $M_{\theta\theta}$0.95 $M_{\phi\phi}$-1.64 $M_{r\theta}$9.05 $M_{\theta\phi}$1.65 $M_{\phi r}$2.01 Best double couple: NP1:ϕ_s260.00000° ,δ89.00000°,λ-83.00000°. NP2:ϕ_s359.00000°,δ7.00000°,λ-170.00000°. Principal axes: T 10.4000,Plg43.0000°,Azm343.0000°; N -2.2000,Plg6.0000°,Azm79.0000° ; P -8.2000,Plg45.0000°,Azm176.0000° $M_0$9.50000×10^{19}
(228) Near east coast of eastern Honshu
JMA VI 24 03 59 15.6–.10 38.42N 142.17E 31–2 3.9
¶600648204
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(162) South Island
WEL VI 24 04 49 51.1–.10 43.53S 172.76E 6–0 4.2L
NEIC VI 24 04 49 49.5 43.52S 172.79E 19 4.2L **¶16681162**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
(228) Near east coast of eastern Honshu
ISC VI 24 06 54 31.5–1.6 36.01N–.04 141.13E–.05 13–9 4.1b 53 0-147
IDC VI 24 06 54 28.8–.69 35.93N 141.25E 0 4.0,3.9 **¶17206851**
ISCJB VI 24 06 54 31.0–.88 36.00N–.03 141.21E–.06 25–5 4.1b,3.9
JMA VI 24 06 54 31.2–.20 35.99N 141.16E 25–2 4.3,3.9
NEIC VI 24 06 54 33.2–2.5 35.96N 141.17E 28–18 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=16.0km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.5km az=1.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=8.0km az=100.0. Recorded [2 JMA] in Chiba and Ibaraki.
(228) Near east coast of eastern Honshu
ISC VI 24 09 08 03.3–1.4 34.46N–.03 140.32E–.05 8–10 3.7b 26 0-58
JMA VI 24 09 08 04.6–.10 34.49N 140.49E 38–2 3.7 **¶17206861**
IDC VI 24 09 08 05.9–1.2 34.03N 138.96E 0 3.9,3.7b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=41.3km s-min=16.0km az=62.0.
(162) South Island
WEL VI 24 09 30 56.9–.35 43.66S 172.87E 5 3.9L
NEIC VI 24 09 30 53.9 43.66S 172.98E 2 4.0L **¶16681167**
WEL Event type fe. Error ellipse: s-maj=2.7km s-min=1.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
(228) Near east coast of eastern Honshu
ISC VI 24 09 43 59.2–1.3 39.70N–.04 142.27E–.10 44–10 4.1b 30 0-75
NIED VI 24 09 43 00 39.70N 142.10E 41 4.0W **¶17206863**
ISCJB VI 24 09 43 58.0–.92 39.70N–.03 142.3E–.10 49–6 3.8b,3.6s
JMA VI 24 09 43 59.7 39.68N 142.12E 48–1 3.9,3.6s
IDC VI 24 09 44 00.2–2.7 39.77N 142.46E 69–22 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ12.00000°,λ93.00000°. NP2:ϕ_s15.00000°,δ78.00000°,λ89.00000°. $M_0$1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=5.4km az=9.7.
JMA Event type fe.
IDC Error ellipse: s-maj=35.9km s-min=11.1km az=110.0.
(162) South Island
WEL VI 24 11 22 56.7–.09 43.59S 172.50E 6–0 3.6L
¶16681169
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(228) Near east coast of eastern Honshu
ISC VI 24 12 40 59.3–2.0 38.90N–.06 142.62E–.09 14–11 22 1-59
IDC VI 24 12 40 55.4–3.0 39.09N 143.08E 0 3.5,3.4b **¶17206868**
ISCJB VI 24 12 40 59.5–1.3 38.82N–.05 142.63E–.08 17–7 3.2b,3.4b
JMA VI 24 12 41 01.3–.20 38.87N 142.54E 26–2 3.7,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=37.7km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.6km az=14.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(227) Eastern Honshu
ISC VI 24 14 39 02.9–1.2 38.32N–.03 140.71E–.03 11–8 21 0-58
IDC VI 24 14 38 49.3–3.4 39.91N 140.94E 0 3.5,3.3 **¶17206877**
IASPE VI 24 14 39 02.6–1.1 38.32N–.03 140.71E–.03 14–8 3.5,3.3
ISCJB VI 24 14 39 02.7–.48 38.31N–.02 140.72E–.04 12–3 3.3b,3.3
JMA VI 24 14 39 03.1 38.32N 140.70E 12–1 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=84.4km s-min=34.3km az=69.0.
IASPE Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=94.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=10.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ51.00000°,λ80.00000°. NP2:ϕ_s42.00000°,δ40.00000°,λ101.00000°. Principal axes: T Plg81.0000°,Azm69.0000°; N Plg7.0000°,Azm213.0000°; P Plg5.0000° ,Azm304.0000°
(228) Near east coast of eastern Honshu
ISC VI 24 14 46 53.2–.67 37.01N–.04 141.11E–.06 51–5 4.2b,3.3s 99 0-151
NIED VI 24 14 46 00 37.00N 141.10E 50 4.3W,3.3s **¶603244179**
ISCJB VI 24 14 46 52.0–.45 36.99N–.03 141.14E–.05 57–3 4.2b,3.5s
IDC VI 24 14 46 53.3–.59 37.01N 141.12E 55–5 4.1,4.0
JMA VI 24 14 46 53.3–.10 37.02N 141.09E 52–1 4.3,4.0
NEIC VI 24 14 46 54.5–.71 37.06N 141.02E 60–6 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ18.00000°,λ100.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ87.00000°. $M_0$2.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=26.9.
IDC Error ellipse: s-maj=10.4km s-min=7.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.3km az=135.0. Recorded [3 JMA] in Fukushima.
(228) Near east coast of eastern Honshu
ISC VI 24 15 22 53.5–.71 37.10N–.05 141.26E–.07 52–5 3.9b 49 0-147
NIED VI 24 15 22 00 37.10N 141.10E 50 4.1W **¶16720984**
ISCJB VI 24 15 22 51.7–.66 37.09N–.04 141.25E–.08 55–4 3.9b,3.4s
JMA VI 24 15 22 53.4–.10 37.10N 141.14E 53–1 4.1,3.4s
IDC VI 24 15 22 54.3–.64 37.11N 141.11E 59–5 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ21.00000°,λ127.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ77.00000°. $M_0$1.59000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.3km az=17.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=12.5km az=92.0.
(229) Off east coast of Honshu
ISC VI 24 15 31 01.8–.51 39.11N–.04 144.54E–.05 28–3 4.6b,3.6s 258 2-87
ISCJB VI 24 15 30 59.1–.99 39.15N–.03 144.40E–.03 17–7 4.5b,3.5s **¶16679643**
BJI VI 24 15 31 00.0 39.10N 144.69E 35 5.0b,4.6b
NIED VI 24 15 31 00 39.20N 144.40E 5 4.3W,4.6b
MOS VI 24 15 31 01.1–1.1 39.12N 144.43E 36 4.8b,4.6b
IDC VI 24 15 31 02.6–.59 39.03N 144.57E 36–3 4.3,4.3
JMA VI 24 15 31 02.2–.20 39.19N 144.34E 49 4.6,4.3
NEIC VI 24 15 31 02.7–.24 39.04N 144.44E 35 4.7b,4.3
ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=153.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_s173.00000°,δ48.00000°,λ-101.00000°. $M_0$3.67000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=103.5.
IDC Error ellipse: s-maj=14.3km s-min=11.9km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=140.0. Recorded [1 JMA] in Miyagi.

(228) Near east coast of eastern Honshu

ISC	**VI**	**24 17 25 11.4–2.5**	**36.85N–.05**	**141.25E–.07**	**7–15**	**3.6b**	**28**	**0-57**
NIED	VI	24 17 25 00	36.90N	141.10E	47	3.8W		**¶17206882**
IDC	VI	24 17 25 10.0–1.2	36.76N	141.34E	0	4.0,4.0		
JMA	VI	24 17 25 15.5–.10	36.91N	141.06E	51–1	3.9,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ32.00000°,λ-132.00000°. NP2:ϕ_s257.00000°,δ67.00000°,λ-68.00000°. $M_0$4.99000×10^{14}
IDC Error ellipse: s-maj=28.6km s-min=19.1km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(224) Hokkaido region

ISC	**VI**	**24 17 39 26.4–.29**	**42.01N–.03**	**142.66E–.02**	**53–2**	**5.5b,4.8s**	**1644**	**0-160**
NIED	VI	24 17 39 00	42.00N	142.70E	56	5.4W,4.8s		**¶16679649**
BJI	VI	24 17 39 20.3	41.86N	142.97E	39	5.5b,5.3b		
MOS	VI	24 17 39 24.9–.99	42.07N	142.61E	54	5.8b,4.8s		
ISCJB	VI	24 17 39 26.1–.18	42.00N–.01	142.61E–.02	61–1	5.4b,4.8s		
JMA	VI	24 17 39 26.4–.10	41.97N	142.72E	57–2	5.4,4.8s		
NEIC	VI	24 17 39 27.2–.09	42.05N	142.55E	58	5.5W,4.8s		
GCMT	VI	24 17 39 27.2–.10	42.00N	142.77E	54–0	5.4W,4.8s		
IDC	VI	24 17 39 27.2–.54	42.03N	142.66E	58–4	5.3,5.1		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ85.00000°. $M_0$1.47000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=98.6.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=147.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ83.00000°,λ90.00000°. NP2: ϕ_s201.00000°,δ7.00000°,λ90.00000°. Principal axes: T Plg52.0000°,Azm291.0000° ; N Plg0.0000°,Azm21.0000°; P Plg38.0000°,Azm111.0000°
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=149.0. Felt at Kitahiroshima, Obihiro and Sapporo. Also felt at Misawa, Honshu. Recorded [3 JMA] in southern Hokkaido and in Aomori, Honshu. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}1.16 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-0.57 $M_{r\theta}$0.96 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.18 Best double couple: NP1:ϕ_s234.00000° ,δ22.00000°,λ104.00000°. NP2:ϕ_s40.00000°,δ69.00000°,λ85.00000°. Principal axes: T 1.8500,Plg66.0000°,Azm301.0000°; N 0.4200,Plg5.0000°,Azm42.0000° ; P -2.2700,Plg24.0000°,Azm134.0000° $M_0$2.10000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c175; s106,c183; Duration: 1π3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.44±.03 $M_{\theta\theta}$-0.27±.02; $M_{\phi\phi}$-1.18±.02; $M_{r\theta}$0.39±.02; $M_{\theta\phi}$-0.53±.02; $M_{\phi r}$0.88±.02; Best double couple: NP1:ϕ_s24.00000°,δ62.00000° ,λ90.00000°. NP2:ϕ_s205.00000°,δ28.00000°,λ91.00000°. Principal axes: T 1.7340,Plg73.0000°,Azm294.0000°; N -0.0230,Plg0.0000°,Azm24.0000° ; P -1.7180,Plg17.0000°,Azm115.0000° $M_0$1.72600×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=8.5km az=87.0.

(460) Wyoming

ISC	**VI**	**24 18 16 10.3–.81**	**43.74N–.05**	**105.28W–.07**	**0**		**62**	**1-90**
ISCJB	VI	24 18 16 09.3–.37	43.73N–.03	105.30W–.04	0	3.8b		**¶17206884**
NEIC	VI	24 18 16 11.7–1.1	43.75N	105.28W	9–9	3.5L		
IDC	VI	24 18 16 11.2–.92	44.11N	105.88W	0	3.7,3.7b		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.8km s-min=4.3km az=157.0.
NEIC Event type fm. Error ellipse: s-maj=3.4km s-min=3.1km az=77.0. 63 km [39 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=23.2km s-min=8.7km az=144.0.

(460) Wyoming

ISC	**VI**	**24 19 13 42.3–.95**	**43.51N–.05**	**105.40W–.05**	**0**		**46**	**1-14**
ISCJB	VI	24 19 13 41.6–.44	43.50N–.03	105.40W–.05	0			**¶16731393**
NEIC	VI	24 19 13 42.8–.35	43.52N	105.37W	0	3.0L		
IDC	VI	24 19 13 43.0–1.6	43.82N	105.81W	0	3.6,3.4		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.4km s-min=4.7km az=163.3.
NEIC Event type fm. Error ellipse: s-maj=4.4km s-min=4.1km az=101.0. 74 km [46 miles] E of Midwest. Suspected Mining explosion.
IDC Error ellipse: s-maj=43.1km s-min=8.9km az=149.0.

(162) South Island

WEL	**VI**	**24 21 35 49.1–.08**	**43.59S**	**172.69E**	**10–0**	**3.7L**		**¶16681348**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(228) Near east coast of eastern Honshu

ISC	**VI**	**24 21 40 58.9–1.7**	**35.72N–.05**	**141.04E–.09**	**13–7**		**16**	**0-56**
IDC	VI	24 21 40 56.4–4.0	35.79N	141.20E	0	3.5,3.4b		**¶17206891**
ISCJB	VI	24 21 40 58.7–1.3	35.71N–.05	141.05E–.09	15–5	3.4b,3.4b		
JMA	VI	24 21 41 00.3–.10	35.68N	140.93E	13–1	3.4,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=116.9km s-min=30.7km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.6km az=171.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(122) Near coast of northern Chile

ISC	**VI**	**24 22 13 56.4–.83**	**22.39S–.04**	**70.10W–.06**	**52–6**	**4.1b**	**29**	**0-147**
IDC	VI	24 22 13 49.7–3.9	22.94S	69.47W	0	3.6,3.6b		**¶16704932**
ISCJB	VI	24 22 13 55.9–.43	22.38S–.03	70.12W–.06	62–4	4.1b,3.6b		
NEIC	VI	24 22 13 56.0	22.37S	70.08W	51	4.2b,3.6b		
GUC	VI	24 22 13 56.3–.54	22.37S	70.08W	51–2	4.0L,3.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=134.5km s-min=43.4km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=18.8.
NEIC Event type fe. Felt [III] at Tocopilla. After GUC.
GUC Error ellipse: s-maj=1.2km s-min=2.3km az=-1.0.

(162) South Island

WEL	**VI**	**25 00 30 26.6–.07**	**43.60S**	**172.53E**	**6–0**	**4.1L**		
NEIC	VI	25 00 30 26.5	43.60S	172.52E	5	4.1L		**¶16681350**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

(228) Near east coast of eastern Honshu

JMA	**VI**	**25 00 32 22.3–.10**	**38.38N**	**142.18E**	**35–1**	**3.6**		**¶600648645**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(523) Central Mexico

ISC	**VI**	**25 00 41 28.5–1.7**	**21.32N–.03**	**99.40W–.04**	**5–12**	**4.3b**	**60**	**1-55**
MEX	VI	25 00 41 29.7–.87	21.32N	99.36W	8	4.4		**¶16681351**
NEIC	VI	25 00 41 30.3–.48	21.35N	99.46W	10	4.2b,4.2		
IDC	VI	25 00 41 34.5–3.8	21.44N	99.13W	35–33	3.6,3.5		

ISC Event type fe.
MEX Error ellipse: s-maj=7.4km s-min=8.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.7km az=98.0. Felt at Queretaro and San Juan del Rio.
IDC Error ellipse: s-maj=64.1km s-min=18.1km az=50.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 00 44 18.2–.60**	**39.70N–.03**	**142.17E–.05**	**48–4**	**4.5b,3.6s**	**210**	**0-95**
NIED	VI	25 00 44 00	39.70N	142.10E	50	4.5W,3.6s		**¶16681352**
ISCJB	VI	25 00 44 17.4–.40	39.70N–.03	142.13E–.05	57–2	4.4b,3.6s		
JMA	VI	25 00 44 18.1	39.68N	142.13E	48–1	4.3,3.6s		
MOS	VI	25 00 44 19.0–.98	39.81N	142.01E	65	4.8b,3.6s		
BJI	VI	25 00 44 19.1	39.75N	142.01E	67	4.9b,4.5b		
NEIC	VI	25 00 44 20.9–.60	39.76N	142.07E	72–4	4.7b,4.5b		
IDC	VI	25 00 44 20.2–1.7	39.66N	142.14E	70–14	4.2,4.0		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ19.00000°,λ73.00000°. NP2:ϕ_s16.00000°,δ72.00000°,λ96.00000°. $M_0$6.93000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.9km az=21.3.
JMA Event type fe.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=109.7.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=4.9km az=126.0. Felt at Misawa. Recorded [2 JMA] in Iwate.
IDC Error ellipse: s-maj=16.1km s-min=10.3km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 02 42 40.5–1.1**	**35.93N–.06**	**141.07E–.08**	**31**	**3.4b**	**14**	**0-56**
IDC	VI	25 02 42 36.5–1.5	35.76N	141.13E	0	3.6,3.4		**¶17206897**
ISCJB	VI	25 02 42 39.1–.89	35.92N–.04	141.10E–.08	31	4.3s,3.5b		
JMA	VI	25 02 42 39.8–.10	35.91N	141.04E	31–1	3.3,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=31.2km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.1km az=172.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 03 46 14.4–2.0**	**37.56N–.05**	**141.79E–.06**	**8–12**	**3.9b**	**38**	**1-146**
NIED	VI	25 03 46 00	37.60N	141.80E	23	3.8W		**¶17206901**
ISCJB	VI	25 03 46 14.0–1.0	37.56N–.04	141.95E–.05	17–7	3.8b		
JMA	VI	25 03 46 16.4–.10	37.58N	141.82E	26–3	4.1		
IDC	VI	25 03 46 18.1–5.7	37.56N	141.75E	31–42	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ13.00000°,λ27.00000°. NP2:ϕ_s343.00000°,δ84.00000°,λ101.00000°. $M_0$5.55000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.7km az=35.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=14.9km az=96.0.

(162) South Island

WEL	**VI**	**25 04 35 11.7–.08**	**43.63S**	**172.40E**	**8–1**	**3.7L**		
NEIC	VI	25 04 35 11.4	43.65S	172.40E	12	3.8L		**¶16681354**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.

(162) South Island

WEL	**VI**	**25 05 34 25.1–.24**	**43.72S**	**172.92E**	**5**	**3.6L**		**¶16681355**

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(162) South Island

WEL	**VI**	**25 05 43 19.7–.06**	**43.59S**	**172.53E**	**5**	**3.5L**		**¶16681357**

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(224) Hokkaido region

ISC	**VI**	**25 05 50 21.1–.84**	**41.95N–.06**	**142.67E–.05**	**59–7**	**4.0b,3.4s**	**36**	**0-86**
NIED	VI	25 05 50 00	42.00N	142.70E	53	4.0W,3.4s		**¶16720988**
ISCJB	VI	25 05 50 20.0–.57	41.94N–.06	142.67E–.06	67–4	3.8b,3.4s		
JMA	VI	25 05 50 20.8–.10	41.95N	142.70E	56–2	3.7,3.4s		
IDC	VI	25 05 50 23.6–1.8	42.05N	142.58E	80–14	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ22.00000°,λ107.00000°. NP2:ϕ_s23.00000°,δ69.00000°,λ83.00000°. $M_0$1.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.5km az=144.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=12.2km az=122.0.

(229) Off east coast of Honshu

ISC	**VI**	**25 06 54 31.9–.43**	**37.10N–.04**	**142.47E–.04**	**21–3**	**4.7b,4.3s**	**305**	**1-146**
NIED	VI	25 06 54 00	37.00N	142.50E	17	4.6W,4.3s		**¶16681193**
BJI	VI	25 06 54 24.9	37.13N	142.93E	13	5.0b,4.7b		
JMA	VI	25 06 54 27.8–.30	37.02N	142.47E	15–4	4.7,4.7b		
IDC	VI	25 06 54 28.5–.53	37.04N	142.34E	0	4.6,4.5		
NEIC	VI	25 06 54 31.0–1.7	37.07N	142.36E	13–11	4.7b,4.5		
ISCJB	VI	25 06 54 31.5–.18	37.05N–.02	142.36E–.02	29	4.7b,4.2s		
MOS	VI	25 06 54 34.2–.97	37.47N	142.20E	34	4.9b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ34.00000°,λ-18.00000°. NP2:ϕ_s232.00000°,δ80.00000°,λ-123.00000°. $M_0$9.24000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=11.6km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=131.0. Recorded [2 JMA] in Fukushima and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=174.9.
MOS Error ellipse: s-maj=7.1km s-min=4.8km az=104.1.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 07 06 02.2–.99**	**36.98N–.03**	**140.50E–.03**	**9–6**	**4.5b**	**169**	**0-151**
IDC	VI	25 07 06 00.4–.55	36.97N	140.48E	0	4.5,4.4		**¶16681195**
NIED	VI	25 07 06 00	37.00N	140.60E	5	4.2W,4.4		
JMA	VI	25 07 06 02.2	36.96N	140.54E	6–1	4.5,4.4		
ISCJB	VI	25 07 06 02.2–.42	36.96N–.02	140.47E–.03	17–3	4.5b,3.2s		
BJI	VI	25 07 06 03.4	36.84N	140.53E	35	5.0b,4.6b		
NEIC	VI	25 07 06 06.5–.15	36.99N	140.33E	35	4.5b,4.6b		

ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=11.8km az=109.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ37.00000°,λ-95.00000°. NP2:ϕ_s256.00000°,δ53.00000°,λ-86.00000°. $M_0$2.25000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ54.00000°,λ-112.00000°. NP2:ϕ_s98.00000°,δ41.00000°,λ-63.00000°. Principal axes: T Plg7.0000°,Azm349.0000°; N Plg18.0000°,Azm257.0000°; P Plg71.0000° ,Azm100.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.2km az=28.5.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=138.0. Recorded [3 JMA] in Fukushima and Ibaraki.

(227) Eastern Honshu

ISC	**VI**	**25 08 01 51.1–1.3**	**37.07N–.03**	**140.95E–.06**	**7–7**	**3.9b**	**41**	**0-147**
NIED	VI	25 08 01 00	37.10N	140.90E	5	3.7W		**¶603244185**
IDC	VI	25 08 01 49.7–.95	37.05N	140.93E	0	4.1,3.9		
ISCJB	VI	25 08 01 50.0–.77	37.07N–.03	141.01E–.05	10–4	3.9b,3.8s		
JMA	VI	25 08 01 51.7	37.10N	140.85E	9–1	4.0,3.8s		
NEIC	VI	25 08 01 55.7–1.2	37.09N	140.95E	41–10	4.3b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ37.00000°,λ-54.00000°. NP2:ϕ_s213.00000°,δ61.00000°,λ-114.00000°. $M_0$4.49000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=20.8km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=12.9.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=15.0km s-min=10.5km az=133.0. Recorded [3 JMA] in Fukushima.

(227) Eastern Honshu

ISC	**VI**	**25 08 25 32.5–1.6**	**37.11N–.03**	**141.01E–.06**	**0–10**	**3.9b**	**49**	**0-90**
NIED	VI	25 08 25 00	37.10N	140.90E	5	3.8W		**¶16681199**
ISCJB	VI	25 08 25 32.3–.79	37.08N–.03	141.03E–.05	9–4	3.9b		
IDC	VI	25 08 25 32.3–.81	37.07N	140.94E	0	4.0,3.9		
JMA	VI	25 08 25 34.3	37.10N	140.85E	9–1	4.1,3.9		
NEIC	VI	25 08 25 38.5–1.0	37.11N	140.94E	42–8	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ47.00000°,λ-109.00000°. NP2:ϕ_s69.00000°,δ47.00000°,λ-71.00000°. $M_0$5.76000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.0km az=19.7.
IDC Error ellipse: s-maj=24.0km s-min=17.5km az=96.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s242.00000°,δ54.00000°,λ-97.00000°. NP2:ϕ_s74.00000°,δ36.00000°,λ-80.00000°. Principal axes: T Plg9.0000°,Azm337.0000°; N Plg6.0000°,Azm246.0000°; P Plg79.0000° ,Azm123.0000°
NEIC Event type fe. Error ellipse: s-maj=13.2km s-min=7.4km az=128.0. Recorded [3 JMA] in Fukushima.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 08 53 31.0–1.9**	**38.94N–.05**	**142.38E–.08**	**28–12**	**3.7b**	**25**	**1-73**
NIED	VI	25 08 53 00	39.00N	142.50E	32	3.5W		**¶17206915**
ISCJB	VI	25 08 53 28.3–1.3	38.90N–.05	142.56E–.08	22–7	3.6b,3.4s		
JMA	VI	25 08 53 29.8–.10	38.96N	142.49E	28–2	4.0,3.4s		
IDC	VI	25 08 53 34.3–2.8	38.95N	142.33E	63–24	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ23.00000°,λ-32.00000°. NP2:ϕ_s167.00000°,δ78.00000°,λ-110.00000°. $M_0$1.80000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.8km az=25.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.7km s-min=15.6km az=111.0.

(160) Off east coast of North Island

WEL	**VI**	**25 08 54 15.7–.09**	**39.33S**	**177.40E**	**33**	**3.7L**		
								¶16681359

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0. Felt in the Hawke"s Bay region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 09 59 31.3–.72**	**36.06N–.04**	**140.23E–.05**	**64–6**	**4.3b**	**92**	**0-148**
NIED	VI	25 09 59 00	36.00N	140.10E	62	4.1W		**¶600648799**
ISCJB	VI	25 09 59 30.4–.40	36.01N–.03	140.19E–.05	76–3	4.3b		
NEIC	VI	25 09 59 32.1–.54	36.05N	140.16E	75–4	4.7b		
JMA	VI	25 09 59 32.3–.10	36.02N	140.10E	63–1	3.7		
IDC	VI	25 09 59 32.5–1.3	35.94N	140.03E	78–11	4.1,3.9		
BJI	VI	25 09 59 33.9	36.24N	139.74E	74	5.0b,4.6b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ29.00000°,λ90.00000°. NP2:ϕ_s6.00000°,δ61.00000°,λ90.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=179.3.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=5.1km az=101.0. Felt at Kiryu, Nagareyama and Tokyo.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ59.00000°,λ83.00000°. NP2: ϕ_s194.00000°,δ31.00000°,λ101.00000°. Principal axes: T Plg75.0000°,Azm253.0000° ; N Plg6.0000°,Azm5.0000°; P Plg14.0000°,Azm96.0000°
IDC Error ellipse: s-maj=17.0km s-min=6.9km az=66.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 11 56 37.0–1.1**	**34.32N–.04**	**140.25E–.05**	**51–13**		**27**	**1-58**
IDC	VI	25 11 56 30.6–1.7	34.19N	140.77E	0	3.6,3.5		**¶17206920**
ISCJB	VI	25 11 56 35.9–.59	34.32N–.03	140.25E–.06	62–7	3.4b,3.5		
JMA	VI	25 11 56 36.9–.10	34.33N	140.25E	47–2	3.7,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=40.5km s-min=21.6km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=170.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(224) Hokkaido region

ISC	**VI**	**25 13 04 58.6–.48**	**42.91N–.03**	**142.58E–.03**	**106–4**	**4.5b**	**276**	**0-91**
NIED	VI	25 13 04 00	42.90N	142.60E	101	4.3W		**¶16681365**
BJI	VI	25 13 04 53.2	42.95N	143.01E	100	5.0b,4.7b		
ISCJB	VI	25 13 04 57.6–.18	42.90N–.02	142.54E–.02	110–1	4.5b,4.7b		
MOS	VI	25 13 04 57.7–.76	42.91N	142.55E	112	4.7b,4.7b		
NEIC	VI	25 13 04 58.3–.38	42.93N	142.49E	101–4	4.6b,4.7b		
JMA	VI	25 13 04 58.8–.10	42.90N	142.64E	103–2	4.1,4.7b		
IDC	VI	25 13 04 59.4–.62	42.96N	142.57E	112–4	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ37.00000°,λ168.00000°. NP2:ϕ_s185.00000°,δ83.00000°,λ54.00000°. $M_0$3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=154.5.
MOS Error ellipse: s-maj=6.6km s-min=4.9km az=90.8.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=152.0. Recorded [2 JMA] in central and southern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ87.00000°,λ59.00000°. NP2: ϕ_s91.00000°,δ31.00000°,λ175.00000°. Principal axes: T Plg40.0000°,Azm67.0000° ; N Plg31.0000°,Azm187.0000°; P Plg35.0000°,Azm302.0000°
IDC Error ellipse: s-maj=10.8km s-min=8.2km az=120.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 13 35 42.7–.78**	**39.88N–.04**	**142.50E–.09**	**40–8**	**4.0b,3.4s**	**42**	**0-88**
NIED	VI	25 13 35 00	39.90N	142.50E	44	4.1W,3.4s		**¶16720993**
ISCJB	VI	25 13 35 42.2–.86	39.90N–.03	142.49E–.09	49–7	3.9b,3.4s		
JMA	VI	25 13 35 42.2–.10	39.92N	142.50E	35–1	4.0,3.4s		
IDC	VI	25 13 35 44.9–2.1	39.90N	142.53E	61–18	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ36.00000°,λ105.00000°. NP2:ϕ_s354.00000°,δ56.00000°,λ79.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.5km az=10.4.
JMA Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=11.8km az=108.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 17 22 09.2–1.9**	**39.22N–.06**	**142.3E–.10**	**27**		**14**	**0-73**
NIED	VI	25 17 22 00	39.10N	142.40E	38	3.5W		**¶600648967**
JMA	VI	25 17 22 08.2–.10	39.12N	142.35E	32–1	3.6		
IDC	VI	25 17 22 13.4–2.4	32.87N	138.68E	244–36	3.4,3.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ16.00000°,λ-170.00000°. NP2:ϕ_s193.00000°,δ87.00000°,λ-74.00000°. $M_0$2.00000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=123.9km s-min=22.7km az=73.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 18 15 19.9–1.4**	**40.01N–.04**	**142.37E–.08**	**32–9**	**3.5b**	**27**	**0-67**
NIED	VI	25 18 15 00	40.00N	142.40E	32	3.5W		**¶17206933**
ISCJB	VI	25 18 15 19.6–1.1	40.01N–.05	142.4E–.10	37–11	3.4b		
JMA	VI	25 18 15 19.0–.10	40.04N	142.41E	38–1	3.8		
IDC	VI	25 18 15 22.4–2.7	39.80N	142.71E	64–25	3.4,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ34.00000°,λ-17.00000°. NP2:ϕ_s177.00000°,δ80.00000°,λ-123.00000°. $M_0$1.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=8.0km az=175.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=15.9km az=101.0.

(162) South Island

WEL	**VI**	**25 18 23 32.4–.21**	**41.32S**	**172.38E**	**5**	**3.7L**		
								¶16682694

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.2km az=90.0. Felt from Nelson to West Coast, maximum reported intensity MM 5.

(76) Off coast of central America

ISC	**VI**	**25 20 05 04.2–.76**	**12.69N–.08**	**89.36W–.08**	**47**	**4.1b**	**180**	**1-148**
NEIC	VI	25 20 04 53.8–2.7	11.66N	89.28W	35	4.3b,3.8		**¶16702428**
ISCJB	VI	25 20 05 02.8–.43	12.68N–.05	89.42W–.05	47	4.1b,2.8s		
IDC	VI	25 20 05 03.9–3.1	12.68N	89.20W	42–28	3.9,3.9		
CASC	VI	25 20 05 05.1–2.5	12.82N	89.30W	36–999	4.3b,4.1		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=41.3km s-min=15.9km az=172.0. Felt [I] at La Libertad, El Salvador.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.1km az=44.4.
IDC Error ellipse: s-maj=38.4km s-min=20.9km az=63.0.
CASC Error ellipse: s-maj=36.2km s-min=25.4km az=-1.0.

(227) Eastern Honshu

ISC	**VI**	**25 20 11 35.1–1.2**	**39.58N–.03**	**140.67E–.03**	**4–8**	**3.8b**	**33**	**0-146**
NIED	VI	25 20 11 00	39.60N	140.60E	5	3.8W		**¶603244187**
ISCJB	VI	25 20 11 34.2–.68	39.60N–.03	140.67E–.04	13–4	3.7b,3.1s		
JMA	VI	25 20 11 34.6	39.60N	140.63E	4–1	3.9,3.1s		
IDC	VI	25 20 11 41.0–2.0	39.53N	140.58E	56–19	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ50.00000°,λ28.00000°. NP2:ϕ_s182.00000°,δ69.00000°,λ136.00000°. $M_0$6.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=143.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ72.00000°,λ132.00000°. NP2:ϕ_s289.00000°,δ45.00000°,λ26.00000°. Principal axes: T Plg46.0000°,Azm133.0000°; N Plg40.0000°,Azm344.0000°; P Plg16.0000° ,Azm240.0000°
IDC Error ellipse: s-maj=19.5km s-min=12.1km az=113.0.

(171) South of Fiji Islands

ISC	**VI**	**25 21 16 55.6–.31**	**24.49S–.04**	**179.52E–.04**	**533–3**	**5.3b**	**1245**	**5-174**
IDC	VI	25 21 16 54.9–.43	24.54S	179.45E	523–4	5.5,4.8		**¶602918769**
ISCJB	VI	25 21 16 54.1–.43	24.52S–.02	179.35E–.02	518–5	5.2b,4.8		
MOS	VI	25 21 16 55.0–.99	24.45S	179.39E	525	5.2b,4.8		
GCMT	VI	25 21 16 55.5–.20	24.51S	179.58E	539–1	5.6W,4.8		
NEIC	VI	25 21 16 55.5–.43	24.51S	179.37E	528–5	5.6W,5.6W		
BJI	VI	25 21 16 56.0	24.21S	179.74E	547	5.3b,5.3b		
NEIC	VI	25 21 16 57.0–.00	24.41S	179.51E	546	5.3b,5.3b		

ISC Event type fe.
IDC Error ellipse: s-maj=7.2km s-min=6.4km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=149.4.
MOS Error ellipse: s-maj=8.1km s-min=7.0km az=78.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c158; s27,c28; Duration: 1$\dot{s}$5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.75±.04 $M_{\theta\theta}$-1.17±.07; $M_{\phi\phi}$0.41±.07; $M_{r\theta}$-0.04±.07; $M_{\theta\phi}$-0.01±.07; $M_{\phi r}$-2.93±.06; Best double couple: NP1:ϕ_s181.00000° ,δ88.00000°,λ89.00000°. NP2:ϕ_s29.00000°,δ2.00000°,λ118.00000°. Principal axes: T 3.5190,Plg47.0000°,Azm90.0000°; N -1.1690,Plg1.0000°,Azm181.0000° ; P -2.3510,Plg43.0000°,Azm272.0000° $M_0$2.93500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=147.0. Felt at Suva. Also felt at Nuku'alofa, Tonga. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.29 $M_{\theta\theta}$1.03 $M_{\phi\phi}$-0.74 $M_{r\theta}$1.58 $M_{\theta\phi}$0.02 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s324.00000° ,δ89.00000°,λ-74.00000°. NP2:ϕ_s57.00000°,δ16.00000°,λ-176.00000°. Principal axes: T 2.8300,Plg42.0000°,Azm39.0000°; N 0.4800,Plg16.0000°,Azm144.0000° ; P -3.3100,Plg44.0000°,Azm249.0000° $M_0$3.10000×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$-0.65 $M_{\phi\phi}$0.16 $M_{r\theta}$-0.05 $M_{\theta\phi}$0.70 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s174.00000° ,δ87.00000°,λ107.00000°. NP2:ϕ_s275.00000°,δ18.00000°,λ11.00000°. Principal axes: T 2.9100,Plg45.0000°,Azm101.0000°; N -0.5900,Plg17.0000°,Azm353.0000° ; P -2.3200,Plg39.0000°,Azm248.0000° $M_0$2.70000×10^{17}

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 21 38 18.2–1.0**	**36.91N–.04**	**141.13E–.07**	**46–8**	**3.8b**	**40**	**0-147**
NIED	VI	25 21 38 00	36.90N	141.10E	68	4.2W		**¶600649098**
ISCJB	VI	25 21 38 16.7–.62	36.90N–.03	141.17E–.07	53–5	3.9b		
JMA	VI	25 21 38 18.1–.10	36.91N	141.08E	51–1	4.1		
IDC	VI	25 21 38 20.4–2.4	36.86N	141.01E	70–22	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ19.00000°,λ58.00000°. NP2:ϕ_s15.00000°,δ74.00000°,λ100.00000°. $M_0$2.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.1km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.2km s-min=10.5km az=68.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**25 22 58 16.3–.90**	**36.00N–.05**	**140.17E–.06**	**66–7**	**3.5b**	**31**	**0-69**
NIED	VI	25 22 58 00	36.00N	140.10E	71	3.8W		**¶17206947**
ISCJB	VI	25 22 58 15.3–.55	35.96N–.04	140.19E–.06	74–4	3.4b		
IDC	VI	25 22 58 17.0–1.8	35.96N	140.22E	76–16	3.6,3.4		
JMA	VI	25 22 58 17.2	35.97N	140.09E	62–1	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ23.00000°,λ88.00000°. NP2:ϕ_s354.00000°,δ67.00000°,λ91.00000°. $M_0$5.32000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=172.4.
IDC Error ellipse: s-maj=22.2km s-min=8.8km az=64.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s1.00000°,δ65.00000°,λ89.00000°. NP2:ϕ_s184.00000°,δ25.00000°,λ92.00000°. Principal axes: T Plg70.0000°,Azm269.0000°; N Plg1.0000°,Azm2.0000°; P Plg20.0000° ,Azm92.0000°

(118) Peru-Bolivia border region

ISC	**VI**	**26 00 08 24.6–.50**	**16.82S–.04**	**69.50W–.05**	**181–4**	**4.5b**	**122**	**1-169**
BJI	VI	26 00 08 14.5	15.90S	71.30W	99	5.3b		**¶16682699**
ISCJB	VI	26 00 08 23.6–.31	16.81S–.03	69.49W–.05	184–3	4.4b		
NEIC	VI	26 00 08 23.3–.53	16.70S	69.33W	165–5	4.5b		
SCB	VI	26 00 08 23.4–.55	16.58S	69.16W	190	3.8L		
GUC	VI	26 00 08 25.6–.40	16.95S	69.39W	159–4	4.8L		
IDC	VI	26 00 08 26.1–.67	16.62S	69.26W	187–4	4.7,4.4		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.4km az=10.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.1km az=77.0. Felt [III] at Juliaca. Also felt at Puno.
SCB Event type ke. Error ellipse: s-maj=20.9km s-min=12.8km az=122.0.
GUC Error ellipse: s-maj=2.8km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=10.5km az=101.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**26 01 58 11.8–2.2**	**36.33N–.05**	**141.12E–.07**	**14–13**	**3.5b**	**20**	**1-60**
IDC	VI	26 01 58 09.1–1.2	36.50N	141.57E	0	3.6,3.4		**¶17206951**
JMA	VI	26 01 58 16.0–.10	36.29N	141.01E	45–1	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.1km s-min=25.6km az=90.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**26 02 42 53.1–.99**	**36.71N–.04**	**140.63E–.06**	**11–6**	**3.5b**	**18**	**0-147**
IDC	VI	26 02 42 51.3–.94	36.64N	140.58E	0	3.7,3.6		**¶17206953**
ISCJB	VI	26 02 42 52.0–.82	36.69N–.04	140.71E–.07	17–5	3.5b,3.1s		
JMA	VI	26 02 42 53.3	36.74N	140.58E	8–1	3.3,3.1s		

ISC Event type ke.
IDC Error ellipse: s-maj=22.4km s-min=15.5km az=1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.2km az=29.6.
JMA Event type fe.

(162) South Island

WEL	**VI**	**26 02 55 10.5–.04**	**43.59S**	**172.59E**	**2**	**3.5L**		
								¶16682701

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**26 03 00 14.7–1.6**	**36.64N–.04**	**141.16E–.08**	**33–10**		**20**	**0-57**
NIED	VI	26 03 00 00	36.60N	141.00E	59	3.6W		**¶17206954**
IDC	VI	26 03 00 13.9–9.3	36.69N	141.31E	35–67	3.7,3.7		
ISCJB	VI	26 03 00 14.2–.95	36.62N–.04	141.19E–.09	44–10	3.6b,3.4s		
JMA	VI	26 03 00 15.6–.10	36.63N	141.04E	47–1	3.8,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ22.00000°,λ90.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ90.00000°. $M_0$2.51000×10^{14}
IDC Error ellipse: s-maj=63.7km s-min=24.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.1km az=15.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(2) Southern Alaska

ISC	**VI**	**26 03 03 30.7–.60**	**59.91N–.03**	**152.97W–.04**	**115–5**	**4.1b**	**158**	**0-81**
ISCJB	VI	26 03 03 29.4–.18	59.92N–.02	152.96W–.04	121–2	4.1b		**¶16681521**
IDC	VI	26 03 03 30.9–2.6	60.00N	153.00W	114–22	4.1,3.8		
NEIC	VI	26 03 03 31.6	59.89N	152.99W	108	4.1,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=137.7.
IDC Error ellipse: s-maj=25.3km s-min=13.4km az=161.0.
NEIC Event type fe. Felt [II] at Homer. After AEIC.

(306) Xizang

ISC	**VI**	**26 07 48 16.9–.36**	**32.41N–.03**	**95.96E–.02**	**30–2**	**5.2b,4.7s**	**792**	**5-158**
IDC	VI	26 07 48 11.9–.42	32.41N	95.97E	0	5.0,5.0		**¶16682702**
ISCJB	VI	26 07 48 15.2–.09	32.41N–.02	95.92E–.02	31	5.2b,4.7s		
MOS	VI	26 07 48 15.8–.83	32.42N	95.97E	36	5.4b,4.7s		
BJI	VI	26 07 48 15.4	32.40N	96.05E	20	5.5b,5.3s		
GCMT	VI	26 07 48 16.8–.10	32.33N	95.98E	16–0	5.3W,5.3s		
NEIC	VI	26 07 48 16.8–.10	32.45N	95.95E	29	5.3b,5.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=14.2km s-min=10.2km az=31.0.
ISCJB Event type de. Error ellipse: s-maj=2.5km s-min=1.8km az=42.6.
MOS Error ellipse: s-maj=5.7km s-min=3.4km az=120.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c110; s103,c192; Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.45±.02 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.36±.04; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.29±.05; Best double couple: NP1:ϕ_s77.00000°,δ63.00000° ,λ-31.00000°. NP2:ϕ_s182.00000°,δ63.00000°,λ-149.00000°. Principal axes: T 1.0540,Plg0.0000°,Azm129.0000°; N -0.0580,Plg50.0000°,Azm220.0000° ; P -0.9970,Plg40.0000°,Azm39.0000° $M_0$1.02500×10^{17}
NEIC Event type de. Error ellipse: s-maj=3.0km s-min=2.2km az=47.0. Ten houses destroyed and cracks developed in 90 percent of houses in the epicentral area. Felt at Gyegu.

(227) Eastern Honshu

ISC	**VI**	**26 09 40 16.7–.94**	**40.26N–.03**	**140.41E–.04**	**15–7**	**3.6b**	**25**	**0-64**
IDC	VI	26 09 40 15.0–1.1	40.09N	140.44E	0	3.7,3.5		**¶17206971**

ISCJB VI 26 09 40 16.3–.49 40.23N–.03 140.37E–.05 21–6 3.5b,3.5
JMA VI 26 09 40 16.6 40.24N 140.38E 13–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=17.7km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.1km az=167.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s140.00000°,δ65.00000°,λ30.00000°. NP2:ϕ_s37.00000°,δ63.00000°,λ152.00000°. Principal axes: T Plg38.0000°,Azm359.0000°; N Plg52.0000°,Azm177.0000°; P Plg1.0000° ,Azm268.0000°

(228) Near east coast of eastern Honshu

ISC	**VI**	**26 10 11 35.3–.49**	**40.61N–.04**	**142.48E–.04**	**43–3**	**4.4b,3.7s**	**215**	**1-146**
NIED	VI	26 10 11 00	40.60N	142.50E	41	4.4W,3.7s		**¶16682705**
BJI	VI	26 10 11 31.9	40.69N	142.89E	57	4.9b,4.6b		
MOS	VI	26 10 11 32.8–1.1	40.62N	142.44E	33	4.8b,4.6b		
JMA	VI	26 10 11 33.6–.10	40.57N	142.55E	30–2	4.4,4.6b		
ISCJB	VI	26 10 11 34.7–.45	40.62N–.03	142.49E–.04	50–3	4.4b,3.7s		
NEIC	VI	26 10 11 34.7–.38	40.64N	142.51E	35	4.7b,3.7s		
IDC	VI	26 10 11 35.4–.65	40.58N	142.45E	46–5	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ23.00000°,λ54.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ104.00000°. $M_0$5.24000×10^{15}
MOS Error ellipse: s-maj=9.9km s-min=5.4km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.9km az=31.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=6.0km az=114.0. Recorded [1 JMA] in Aomori and Ibaraki. Also recorded [1 JMA] in southwestern Hokkaido.
IDC Error ellipse: s-maj=19.1km s-min=11.0km az=80.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**26 10 16 54.7–.10**	**38.91N**	**142.34E**	**31–2**	**3.6**		
								¶600649376

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(224) Hokkaido region

ISC	**VI**	**26 12 05 22.3–1.2**	**41.15N–.04**	**142.56E–.06**	**48–12**	**3.8b**	**36**	**1-71**
NIED	VI	26 12 05 00	41.10N	142.60E	32	3.7W		**¶16721004**
ISCJB	VI	26 12 05 21.8–.56	41.16N–.04	142.56E–.06	57–6	3.8b		
JMA	VI	26 12 05 21.5–.10	41.13N	142.57E	33–4	4.0		
IDC	VI	26 12 05 25.3–2.6	41.24N	142.38E	68–22	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ31.00000°,λ70.00000°. NP2:ϕ_s34.00000°,δ61.00000°,λ101.00000°. $M_0$3.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.3km az=34.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=35.3km s-min=20.8km az=152.0.

(228) Near east coast of eastern Honshu

JMA	**VI**	**26 12 16 32.0–.10**	**38.35N**	**142.31E**	**30–2**	**3.6**		
								¶600649399

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(196) Irian Jaya region

ISC	**VI**	**26 12 16 39.6–.35**	**2.39S–.03**	**136.66E–.03**	**25–2**	**6.4s,6.0b**	**1131**	**3-169**
ISCJB	VI	26 12 16 34.8–.57	2.34S–.02	136.63E–.02	6–3	6.4s,5.8b		**¶16682707**
IDC	VI	26 12 16 34.9–.31	2.35S	136.60E	0	6.3,6.3s		
BJI	VI	26 12 16 36.2	2.35S	136.65E	15	6.3s,6.2		
MOS	VI	26 12 16 38.8–1.2	2.35S	136.65E	35	6.2b,6.2s		
DJA	VI	26 12 16 38.0–.10	2S–2.0	137E–1.0	10	6.5b,6.2		
NEIC	VI	26 12 16 38.6–.10	2.38S	136.63E	17	6.5,6.4s		
GCMT	VI	26 12 16 38.6–.00	2.27S	136.61E	13–0	6.4W,6.4s		
NEIC	VI	26 12 16 39.0–.00	2.08S	137.03E	11	6.4W,6.4s		
NEIC	VI	26 12 16 54.1–.00	2.24S	136.92E	10	6.4W,6.4s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=36.7.
IDC Error ellipse: s-maj=13.4km s-min=8.4km az=71.0.
MOS Error ellipse: s-maj=7.8km s-min=4.4km az=110.3.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.0km az=65.0. Felt [V] at Serui and Waren; [IV] at Biak, Nabire and Sarmi; [III] at Timika and Wamena. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.00000×10^{19} Moment Tensor Solution. s22 Moment tensor: Scale 10^{18} Nm; M_{rr}0.07 $M_{\theta\theta}$-2.98 $M_{\phi\phi}$2.91 $M_{r\theta}$-0.18 $M_{\theta\phi}$1.27 $M_{\phi r}$-0.61 Best double couple: NP1: ϕ_s146.00000°,δ81.00000°,λ173.00000°. NP2:ϕ_s237.00000°,δ83.00000°,λ9.00000°. Principal axes: T 3.3000,Plg11.0000°,Azm102.0000°; N -0.0600,Plg79.0000°,Azm277.0000° ; P -3.2400,Plg1.0000°,Azm12.0000° $M_0$3.30000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s234.00000°,δ75.00000°,λ-5.00000°. NP2: ϕ_s325.00000°,δ85.00000°,λ-165.00000°. Principal axes: T Plg7.0000°,Azm98.0000° ; N Plg0.0000°,Azm0.0000°; P Plg14.0000°,Azm190.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c323; s147,c562;Duration: 3$s^2$7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.19±.02 $M_{\theta\theta}$-4.17±.02; $M_{\phi\phi}$3.97±.02; $M_{r\theta}$-0.06±.04; $M_{\theta\phi}$1.30±.02; $M_{\phi r}$0.74±.05; Best double couple: NP1:ϕ_s323.00000°,δ85.00000°,λ171.00000°. NP2:ϕ_s54.00000° ,δ81.00000°,λ5.00000°. Principal axes: T 4.2990,Plg10.0000°,Azm279.0000° ; N 0.0750,Plg80.0000°,Azm112.0000°; P -4.3790,Plg2.0000°,Azm9.0000° $M_0$4.33900×10^{18}
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}0.97 $M_{\theta\theta}$-3.02 $M_{\phi\phi}$2.06 $M_{r\theta}$-0.17 $M_{\theta\phi}$1.24 $M_{\phi r}$1.52 Best double couple: NP1:ϕ_s323.00000° ,δ73.00000°,λ151.00000°. NP2:ϕ_s62.00000°,δ62.00000°,λ19.00000°. Principal axes: T 3.2700,Plg32.0000°,Azm280.0000°; N 0.1100,Plg56.0000°,Azm115.0000° ; P -3.3700,Plg7.0000°,Azm14.0000° $M_0$3.30000×10^{18}
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$-3.87 $M_{\phi\phi}$3.85 $M_{r\theta}$1.10 $M_{\theta\phi}$1.56 $M_{\phi r}$-2.09 Best double couple: NP1:ϕ_s146.00000° ,δ88.00000°,λ151.00000°. NP2:ϕ_s237.00000°,δ61.00000°,λ2.00000°. Principal axes: T 4.8900,Plg22.0000°,Azm97.0000°; N -0.2000,Plg61.0000°,Azm322.0000° ; P -4.6900,Plg19.0000°,Azm195.0000° $M_0$4.80000×10^{18}

(228) Near east coast of eastern Honshu

ISC	**VI**	**26 12 29 05.5–1.2**	**38.31N–.04**	**141.94E–.09**	**56–10**	**4.0b**	**39**	**0-146**
ISCJB	VI	26 12 29 05.0–.73	38.34N–.04	141.86E–.09	66–5	3.9b		**¶600649401**
JMA	VI	26 12 29 06.1	38.37N	141.83E	59–1	3.9		
IDC	VI	26 12 29 08.0–2.6	38.32N	141.73E	78–23	4.0,3.9		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.5km az=16.3.
JMA Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=15.4km az=84.0.

(244) Taiwan

ISC	**VI**	**26 13 19 14.7–.72**	**23.85N–.01**	**121.03E–.02**	**16–4**	**4.5b**	**296**	**0-148**
BJI	VI	26 13 19 12.5	23.90N	121.00E	6	5.0b,4.7L		**¶601177305**
MOS	VI	26 13 19 13.3–.88	23.73N	121.10E	27	4.9b,4.7L		
JMA	VI	26 13 19 13.5–.10	23.86N	121.03E	0	4.8,4.7L		
IASPE	VI	26 13 19 14.4–.85	23.85N–.01	121.02E–.02	13–6	4.5b,4.7L		
IDC	VI	26 13 19 14.3–3.2	23.76N	121.18E	22–20	4.6,4.6s		
ISCJB	VI	26 13 19 14.9–.16	23.87N–.01	121.01E–.01	26–1	4.4b,4.6s		
NEIC	VI	26 13 19 14.3–.45	23.80N	121.06E	18–3	5.1L,4.7b		
TAP	VI	26 13 19 14.1	23.85N	121.00E	15–0	5.0L,4.7b		

ISC Event type fe.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=106.9.
IASPE Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=116.9. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
IDC Error ellipse: s-maj=18.0km s-min=13.3km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=140.3.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=129.0. Felt at Bate, Danshui, Hsinchu, Sanxia, Taichung and Taipei. Recorded [3 TAP] in Changhua, Hualien and Nantou; [2 TAP] in Chiayi, Taichung, Yilan and Yunlin; [1 TAP] in Miaoli, Penghu and Taitung.
TAP B.

(162) South Island

ISC	**VI**	**26 13 20 40.9–1.0**	**43.53S–.04**	**172.88E–.04**	**9–7**		**145**	**0-153**
ISCJB	VI	26 13 20 39.6–.68	43.60S–.04	172.94E–.05	13–4	3.8b		**¶16683819**
IDC	VI	26 13 20 40.6–1.4	43.41S	172.85E	0	4.2,4.1L		
NEIC	VI	26 13 20 41.9	43.51S	172.80E	5	4.4L,4.1L		
WEL	VI	26 13 20 42.2–.11	43.51S	172.76E	6–0	4.4L,4.1L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=3.4km az=136.3.
IDC Error ellipse: s-maj=46.9km s-min=26.6km az=159.0.
NEIC Event type fe. Felt widely in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(230) Near south coast of eastern Honshu

JMA	**VI**	**26 13 55 41.1**	**35.45N**	**139.04E**	**21–1**	**3.0**		
								¶600649428

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ59.00000°,λ73.00000°. NP2:ϕ_s228.00000°,δ35.00000°,λ116.00000°. Principal axes: T Plg71.0000°,Azm248.0000°; N Plg15.0000°,Azm27.0000°; P Plg12.0000° ,Azm120.0000°

(228) Near east coast of eastern Honshu

JMA	**VI**	**26 16 50 33.1–.10**	**35.75N**	**140.92E**	**9–1**	**3.5**		
								¶600649538

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**26 20 10 29.0–.75**	**39.08N–.05**	**142.38E–.07**	**27**	**4.0b**	**42**	**1-81**
NIED	VI	26 20 10 00	39.20N	142.40E	29	4.1W		**¶16731556**
IDC	VI	26 20 10 24.4–.87	39.00N	142.41E	0	4.1,4.1b		
ISCJB	VI	26 20 10 27.0–.51	39.07N–.04	142.50E–.05	27	4.0b,4.1b		
JMA	VI	26 20 10 28.3–.10	39.16N	142.43E	32–1	3.8,4.1b		
NEIC	VI	26 20 10 32.5–1.2	39.04N	142.41E	64–10	4.4b,4.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ24.00000°,λ-108.00000°. NP2:ϕ_s173.00000°,δ68.00000°,λ-82.00000°. $M_0$1.66000×10^{15}
IDC Error ellipse: s-maj=23.0km s-min=18.0km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=37.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=16.4km s-min=9.2km az=119.0. Recorded [1 JMA] in Iwate and Miyagi.

(259) Mindanao

MAN	**VI**	**26 21 16 57**	**7.17N**	**122.09E**	**31**	**3.7b,2.4L**		
								¶601655013

MAN Event type fe. INTENSITY I - ZAMBOANGA CITY.

(159) North Island

ISC	**VI**	**26 22 00 25.5–1.5**	**41.06S–.03**	**176.63E–.04**	**12–9**	**3.9b**	**165**	**0-153**
ISCJB	VI	26 22 00 24.7–.88	41.14S–.03	176.74E–.07	24–5	3.9b		**¶16683833**
IDC	VI	26 22 00 26.1–1.6	40.89S	176.30E	0	4.1,3.9		
WEL	VI	26 22 00 27.9–.32	40.99S	176.54E	24–2	3.9L,3.9		
NEIC	VI	26 22 00 28.2	40.97S	176.53E	26	3.9L,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.4km az=30.7.
IDC Error ellipse: s-maj=43.5km s-min=28.3km az=137.0.
WEL Event type fe. Error ellipse: s-maj=2.7km s-min=1.4km az=90.0. Felt from Hawke''s Bay to Wairarapa, maximum reported intensity MM 3.
NEIC Event type fe. Felt at Alfredton and Dannevirke. After WEL.

(227) Eastern Honshu

JMA	**VI**	**26 22 57 54.7**	**37.03N**	**140.65E**	**10–1**	**3.6**		
NIED	VI	26 22 57 00	37.00N	140.70E	5	3.3W		**¶600649726**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s103.00000°,δ56.00000°,λ-75.00000°. NP2:ϕ_s258.00000°,δ36.00000°,λ-111.00000°. Principal axes: T Plg10.0000°,Azm183.0000°; N Plg12.0000°,Azm275.0000°; P Plg74.0000° ,Azm54.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ49.00000°,λ-57.00000°. NP2:ϕ_s56.00000°,δ51.00000°,λ-123.00000°. $M_0$1.05000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**VI**	**27 02 06 41.8–1.2**	**40.00N–.05**	**142.34E–.08**	**42–11**	**3.6b**	**31**	**0-88**
NIED	VI	27 02 06 00	40.00N	142.40E	38	3.8W		**¶17207038**
ISCJB	VI	27 02 06 40.8–.77	40.04N–.04	142.40E–.08	47–7	3.6b		
JMA	VI	27 02 06 40.8–.10	40.04N	142.41E	38–1	3.9		
IDC	VI	27 02 06 43.3–2.7	40.04N	142.42E	59–24	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ14.00000°,λ37.00000°. NP2:ϕ_s4.00000°,δ81.00000°,λ101.00000°. $M_0$6.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.3km az=178.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=20.9km az=130.0.

(7) Andreanof Islands

ISC	**VI**	**27 09 28 54.3–.73**	**51.9N–.10**	**172.29W–.04**	**32**	**3.9b**	**41**	**1-89**
IDC	VI	27 09 28 50.2–.94	51.93N	172.24W	0	4.1,3.9b		**¶16731599**
ISCJB	VI	27 09 28 52.7–.60	51.9N–.10	172.31W–.05	32	3.9b,3.0s		
NEIC	VI	27 09 28 52.5	51.75N	172.30W	45	3.9L,3.0s		

ISC Event type fe.
IDC Error ellipse: s-maj=33.1km s-min=16.2km az=166.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=3.6km az=170.8.
NEIC Event type fe. Felt on Adak. After AEIC.

(218) Near east coast of Kamchatka Peninsula

ISC	**VI**	**27 09 32 26.6–1.1**	**54.85N–.02**	**162.29E–.03**	**25–9**	**3.4b**	**130**	**0-82**
IDC	VI	27 09 32 24.1–1.6	54.27N	162.89E	0	3.7,3.4		**¶16683852**
KRSC	VI	27 09 32 25.2–.68	54.81N	162.30E	41–10	4.1L,3.4		
ISCJB	VI	27 09 32 26.9–.45	54.83N–.02	162.30E–.05	38–8	3.3b,3.0s		
MOS	VI	27 09 32 26.8–.57	54.83N	162.33E	36	4.3b,3.0s		

ISC Event type se.
IDC Error ellipse: s-maj=78.3km s-min=24.5km az=154.0.
KRSC Event type se. FELT [II] at GMS Kronoki.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.0km az=18.6.
MOS Event type fe. Error ellipse: s-maj=8.4km s-min=5.3km az=82.2. Felt (II) at Kronoki. Moment Tensor Solution.

(228) Near east coast of eastern Honshu

ISC	**VI**	**27 09 43 46.2–.93**	**38.70N–.06**	**142.42E–.09**	**46–7**	**3.7b**	**33**	**1-90**
NIED	VI	27 09 43 00	38.70N	142.50E	44	3.9W		**¶17207062**
JMA	VI	27 09 43 44.9–.10	38.68N	142.45E	42–2	4.0		
ISCJB	VI	27 09 43 45.1–1.2	38.68N–.05	142.4E–.10	53–9	3.8b,3.8s		
IDC	VI	27 09 43 46.2–.93	38.60N	142.26E	47–7	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ24.00000°,λ88.00000°. NP2:ϕ_s212.00000°,δ66.00000°,λ91.00000°. $M_0$8.65000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=7.2km az=10.5.
IDC Error ellipse: s-maj=20.9km s-min=18.6km az=75.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**27 10 14 48.7–1.6**	**39.06N–.04**	**142.24E–.08**	**27–11**	**3.3b**	**28**	**0-59**
NIED	VI	27 10 14 00	39.10N	142.20E	44	3.6W		**¶17207063**
ISCJB	VI	27 10 14 49.2–.83	39.07N–.04	142.20E–.09	45–8	3.3b		
JMA	VI	27 10 14 49.8	39.09N	142.16E	45–1	3.6		
IDC	VI	27 10 14 51.8–2.6	38.99N	142.26E	58–26	3.4,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ43.00000°,λ-155.00000°. NP2:ϕ_s170.00000°,δ74.00000°,λ-50.00000°. $M_0$2.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.8km az=20.7.
JMA Event type fe.
IDC Error ellipse: s-maj=37.2km s-min=19.8km az=106.0.

(227) Eastern Honshu

ISC	**VI**	**27 11 48 39.6–.96**	**37.03N–.03**	**140.60E–.03**	**11–8**		**23**	**0-61**
IDC	VI	27 11 48 38.6–2.1	36.91N	140.64E	0	3.5,3.5		**¶17207069**
ISCJB	VI	27 11 48 39.1–.50	37.02N–.03	140.65E–.05	18–6	3.6b,3.5		
JMA	VI	27 11 48 39.5	37.04N	140.57E	9–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=35.7km s-min=21.9km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=9.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ60.00000°,λ-120.00000°. NP2:ϕ_s140.00000°,δ42.00000°,λ-49.00000°. Principal axes: T Plg10.0000°,Azm22.0000°; N Plg26.0000°,Azm287.0000°; P Plg62.0000° ,Azm132.0000°

(228) Near east coast of eastern Honshu

ISC	**VI**	**27 13 04 14.1–1.6**	**36.35N–.05**	**140.95E–.06**	**25–13**		**18**	**0-60**
IDC	VI	27 13 04 14.4–6.2	36.64N	141.13E	56–41	3.4,3.3		**¶17207077**
JMA	VI	27 13 04 15.0–.10	36.22N	140.88E	46–1	3.1,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=27.0km az=32.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

JMA	**VI**	**27 13 54 42.5**	**39.64N**	**142.11E**	**48–1**	**3.5**		

NIED VI 27 13 54 00 39.60N 142.10E 47 3.6W ¶600650068
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ47.00000°,λ26.00000°. NP2:ϕ_s51.00000°,δ72.00000°,λ134.00000°. $M_0$2.45000×10^{14}

(228) Near east coast of eastern Honshu

ISC VI 27 15 04 47.6–.74 35.85N–.03 141.05E–.05 12–4 4.5b,3.3s 166 0-148
NIED VI 27 15 04 00 35.90N 141.10E 11 4.2W,3.3s ¶16684567
IDC VI 27 15 04 45.2–.54 35.77N 141.00E 0 4.3,4.3
ISCJB VI 27 15 04 46.6–.58 35.84N–.02 141.07E–.04 19–4 4.4b,3.4s
JMA VI 27 15 04 47.5–.10 35.82N 141.00E 18–1 4.5,3.4s
BJI VI 27 15 04 47.4 35.83N 141.06E 27 4.8b,4.6s
NEIC VI 27 15 04 48.5–2.0 35.86N 140.99E 19–12 4.7b,4.6s
MOS VI 27 15 04 49.7–.89 36.15N 140.95E 27 4.7b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ40.00000°,λ-110.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ-74.00000°. $M_0$2.12000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=11.9km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.2km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=122.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=9.0km s-min=5.3km az=111.8.

(160) Off east coast of North Island

WEL VI 27 15 48 54.3–.10 39.31S 177.35E 28–1 3.7L ¶16684568
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.

(229) Off east coast of Honshu

ISC VI 27 16 37 42.3–.54 36.80N–.05 142.19E–.06 19 4.2b 80 1-146
NIED VI 27 16 37 00 36.90N 141.80E 17 4.2W ¶16684569
IDC VI 27 16 37 39.1–.58 36.78N 142.15E 0 4.2,4.2b
ISCJB VI 27 16 37 40.1–.36 36.79N–.03 142.12E–.04 19 4.2b,3.0s
BJI VI 27 16 37 40.0 36.77N 141.96E 8 4.9b,4.6s
NEIC VI 27 16 37 41.6–2.4 36.82N 142.13E 16–15 4.5b,4.6s
JMA VI 27 16 37 44.3–.40 36.87N 141.82E 49 4.3,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ25.00000°,λ-102.00000°. NP2:ϕ_s174.00000°,δ66.00000°,λ-84.00000°. $M_0$2.07000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=11.7km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.1km az=24.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=121.0. Recorded [1 JMA] in Fukushima and Miyagi.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

(286) Flores region

ISC VI 27 16 47 14.9–.30 8.98S–.03 122.49E–.03 128–2 5.7b 1710 0-170
MOS VI 27 16 47 08.7–.99 8.88S 122.45E 82 6.0b ¶602918790
BJI VI 27 16 47 13.4 8.90S 122.50E 121 5.9b,5.8b
ISCJB VI 27 16 47 14.9–.29 9.07S–.02 122.44E–.02 149–2 5.7b,5.8b
GCMT VI 27 16 47 14.3–.10 9.21S 122.56E 133–0 5.6W,5.8b
NEIC VI 27 16 47 14.0–.00 8.92S 122.57E 130 5.6W,5.8b
NEIC VI 27 16 47 14.3–.45 8.93S 122.47E 120–3 5.8b,5.5W
DJA VI 27 16 47 15.7–.20 9S–2.0 122E–1.0 139–2 6.4,6.0b
IDC VI 27 16 47 15.6–.84 8.93S 122.53E 129–6 5.8,5.4
KLM VI 27 16 47 17.0 9.39S 122.38E 163 6.3s,6.0L
ISC Event type fe.
MOS Error ellipse: s-maj=7.7km s-min=4.6km az=114.1.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=43.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c197; s126,c295;Duration: 1¤5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59±.03 $M_{\theta\theta}$-1.98±.03; $M_{\phi\phi}$1.39±.04; $M_{r\theta}$1.77±.02; $M_{\theta\phi}$0.66±.03; $M_{\phi r}$1.29±.03; Best double couple: NP1:ϕ_s60.00000°,δ82.00000°,λ51.00000°. NP2:ϕ_s321.00000°,δ39.00000°,λ168.00000°. Principal axes: T 2.8900,Plg40.0000°,Azm295.0000°; N -0.0100,Plg38.0000°,Azm66.0000° ; P -2.8830,Plg27.0000°,Azm180.0000° $M_0$2.88600×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}0.39 $M_{\theta\theta}$-1.19 $M_{\phi\phi}$0.81 $M_{r\theta}$1.75 $M_{\theta\phi}$0.13 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s60.00000°,δ84.00000°,λ66.00000°. NP2:ϕ_s316.00000°,δ25.00000°,λ164.00000°. Principal axes: T 2.1000,Plg46.0000°,Azm305.0000°; N 0.2800,Plg23.0000°,Azm63.0000° ; P -2.3800,Plg34.0000°,Azm170.0000° $M_0$2.30000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=46.0. Felt [III] at Ende. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$-0.61 $M_{\phi\phi}$0.51 $M_{r\theta}$1.77 $M_{\theta\phi}$0.47 $M_{\phi r}$1.13 Best double couple: NP1:ϕ_s329.00000°,δ19.00000°,λ179.00000°. NP2: ϕ_s60.00000°,δ90.00000°,λ71.00000°. Principal axes: T 2.3200,Plg42.0000°,Azm312.0000° ; N -0.2100,Plg19.0000°,Azm60.0000°; P -2.1200,Plg42.0000°,Azm168.0000° $M_0$2.20000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=6.5km az=60.0.

(137) San Juan Province

ISC VI 27 18 13 39.3–1.3 31.34S–.02 68.80W–.04 6–11 30 0-151
IDC VI 27 18 13 30.0–2.9 32.70S 69.52W 0 4.0b,3.9 ¶16731631
SJA VI 27 18 13 38.7–.92 31.33S 68.83W 35–2 4.0W,3.7L
ISCJB VI 27 18 13 40.6–.68 31.33S–.02 68.79W–.04 8–5 3.8b,3.7L
NEIC VI 27 18 13 42.9–1.4 31.84S 69.28W 78–13 4.0,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=75.3km s-min=70.2km az=138.0.
SJA Error ellipse: s-maj=1.9km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=5.8.
NEIC Event type fe. Error ellipse: s-maj=27.4km s-min=13.7km az=53.0. Felt [III] at San Juan.

(228) Near east coast of eastern Honshu

ISC VI 27 18 22 47.5–1.3 36.45N–.05 141.18E–.08 50–11 3.7b 31 1-60
NIED VI 27 18 22 00 36.50N 141.00E 71 3.8W ¶600650186
ISCJB VI 27 18 22 46.9–.78 36.42N–.04 141.16E–.07 56–6 3.7b
IDC VI 27 18 22 46.5–2.9 36.59N 141.47E 47–26 3.7,3.7
JMA VI 27 18 22 48.7–.10 36.46N 141.01E 54–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ38.00000°,λ82.00000°. NP2:ϕ_s234.00000°,δ53.00000°,λ96.00000°. $M_0$5.74000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.2km az=15.6.
IDC Error ellipse: s-maj=33.3km s-min=17.3km az=78.0.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC VI 27 19 31 38.6–.85 35.71N–.05 140.79E–.07 47–7 3.8b 25 0-79
NIED VI 27 19 31 00 35.70N 140.80E 50 3.9W ¶17207094
ISCJB VI 27 19 31 37.5–.55 35.69N–.04 140.80E–.07 55–4 3.7b
JMA VI 27 19 31 38.5–.10 35.73N 140.69E 47–1 3.2
IDC VI 27 19 31 39.1–2.6 35.62N 140.81E 55–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ91.00000°. NP2:ϕ_s18.00000°,δ72.00000°,λ90.00000°. $M_0$9.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.9km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s26.00000°,δ63.00000°,λ102.00000°. NP2: ϕ_s181.00000°,δ30.00000°,λ68.00000°. Principal axes: T Plg70.0000°,Azm321.0000° ; N Plg11.0000°,Azm200.0000°; P Plg17.0000°,Azm107.0000°
IDC Error ellipse: s-maj=25.5km s-min=8.5km az=67.0.

(159) North Island

WEL VI 27 19 49 31.1–.20 40.46S 176.78E 5 3.8L ¶16684571
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.1km az=90.0. Felt from Hawke''s Bay to Manawatu, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

ISC VI 27 20 49 24.6–2.9 36.94N–.04 141.19E–.08 11–18 21 0-57
ISCJB VI 27 20 49 24.3–1.8 36.92N–.04 141.33E–.09 15–15 3.2b ¶17207098
JMA VI 27 20 49 25.7–.10 36.95N 141.19E 26–1 3.7
IDC VI 27 20 49 26.6–2.7 36.43N 141.09E 0 3.4,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.3km az=4.9.
JMA Event type fe.
IDC Error ellipse: s-maj=56.5km s-min=31.6km az=39.0.

(109) Near coast of northern Peru

ISC VI 27 21 05 28.3–.38 6.48S–.06 80.73W–.08 35 4.8b,3.9s 342 2-168
IDC VI 27 21 05 22.7–.68 6.46S 80.95W 0 4.5,4.4 ¶16683870
ISCJB VI 27 21 05 26.4–.25 6.41S–.04 80.65W–.04 33 4.8b,4.0s
NEIC VI 27 21 05 29.8–.67 6.49S 80.71W 50–6 4.7b,4.0s
BJI VI 27 21 05 29.5 6.60S 80.80W 43 5.3b,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=20.9km s-min=15.0km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.2km az=145.5.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=60.0. Felt [II] at Chiclayo. Also felt at Chimbote and Mancora.

(366) Turkey

ISC VI 27 21 14 00.2–.73 39.14N–.02 29.04E–.01 13–4 4.7b,4.1s 1050 0-116
BJI VI 27 21 13 53.7 38.47N 28.81E 10 5.0b,4.7b ¶16683872
NSSC VI 27 21 13 55.1–1.7 38.72N 28.30E 0–147 3.4L,4.7b
ISCJB VI 27 21 13 59.0–.27 39.116N–.01 29.03E–.01 14–1 4.6b,4.1s
NEIC VI 27 21 13 58.8 39.11N 29.03E 10 4.9L,4.7b
MOS VI 27 21 13 58.6–1.2 39.17N 29.06E 11 4.8b,4.0s
DDA VI 27 21 13 58.5 39.11N 29.03E 18 5.0L,4.0s
HLW VI 27 21 13 58.0 39.22N 29.40E 33–12 4.8,4.0s
GCMT VI 27 21 13 58.8–.40 39.07N 29.13E 19–1 5.0W,4.0s
ISK VI 27 21 13 58.6 39.12N 29.02E 9 4.9L,4.0s
IDC VI 27 21 13 58.3–.57 39.08N 28.96E 0 4.5,4.4
ISN VI 27 21 13 59.9–.66 39.15N 29.21E 0–66 4.8L,4.4
THE VI 27 21 14 00.2 39.15N 29.01E 2–0 4.7L,4.4
CSEM VI 27 21 14 00.0–.05 39.11N 29.02E 10 4.8b,4.7W
NIC VI 27 21 14 04.3–.50 39.02N 29.04E 81 5.1b,4.8L
SOF VI 27 21 14 04.2 39.56N 28.72E 2 3.8,4.8L
GII VI 27 21 14 04.3–.00 38.61N 29.05E 1 4.4b,4.2
ISC Event type fe.
NSSC Error ellipse: s-maj=104.4km s-min=243.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=33.5.
NEIC Event type fe. Felt [II] at Eskisehir and Izmir. Also felt at Akhisar, Bursa, Cesme, Gediz, Golcuk, Karamursel, Kutahya, Mudanya and Simav. After ISK. Moment Tensor Solution. s30 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.18 $M_{\theta\theta}$1.27 $M_{\phi\phi}$-0.09 $M_{r\theta}$0.20 $M_{\theta\phi}$-0.59 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s86.00000°,δ41.00000°,λ-131.00000°. NP2:ϕ_s315.00000° ,δ60.00000°,λ-60.00000°. Principal axes: T 1.5700,Plg10.0000°,Azm24.0000° ; N 0.0000,Plg26.0000°,Azm119.0000°; P -1.5700,Plg62.0000°,Azm274.0000° $M_0$1.60000×10^{16}
MOS Error ellipse: s-maj=4.7km s-min=3.1km az=94.6.
DDA Event type ke.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c33; s76,c111; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.58±.29 $M_{\theta\theta}$3.22±.19; $M_{\phi\phi}$0.36±.16; $M_{r\theta}$0.20±.32; $M_{\theta\phi}$-1.56±.12; $M_{\phi r}$-1.61±.40; Best double couple: NP1:ϕ_s313.00000°,δ55.00000° ,λ-66.00000°. NP2:ϕ_s95.00000°,δ42.00000°,λ-120.00000°. Principal axes: T 4.0030,Plg7.0000°,Azm26.0000°; N 0.1710,Plg19.0000°,Azm118.0000° ; P -4.1700,Plg69.0000°,Azm278.0000° $M_0$4.08700×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=8.4km az=17.0.
ISN Error ellipse: s-maj=26.3km s-min=62.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=39.0.
GII Event type ke.

(228) Near east coast of eastern Honshu

ISC VI 27 22 22 35.1–1.5 38.00N–.05 141.90E–.09 50–12 3.8b 38 1-73
NIED VI 27 22 22 00 38.00N 141.80E 44 3.9W ¶17207103
ISCJB VI 27 22 22 34.6–.87 38.02N–.04 141.86E–.09 64–6 3.7b
IDC VI 27 22 22 35.4–2.5 38.00N 141.72E 50–22 3.7,3.5
JMA VI 27 22 22 36.2–.10 38.03N 141.77E 54–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ45.00000°,λ103.00000°. NP2:ϕ_s196.00000°,δ46.00000°,λ78.00000°. $M_0$7.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.8km az=19.3.
IDC Error ellipse: s-maj=26.4km s-min=12.8km az=89.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(162) South Island

WEL VI 28 00 37 04.7–.49 43.66S 172.78E 5 3.5L ¶601027978
WEL Event type fe. Error ellipse: s-maj=4.4km s-min=1.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(228) Near east coast of eastern Honshu

JMA VI 28 01 35 25.9–.10 38.25N 142.02E 44–1 3.5 ¶600651284
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(135) Near coast of central Chile

ISC VI 28 01 54 40.4–1.1 35.04S–.04 72.81W–.08 44–9 4.6b,3.9s 288 1-177
IDC VI 28 01 54 33.9–.83 35.13S 72.91W 0 4.6,4.5b ¶16702430
ISCJB VI 28 01 54 36.0–1.2 35.04S–.03 72.95W–.05 24–8 4.6b,3.8s
GUC VI 28 01 54 35.4–.83 35.05S 72.97W 48–8 4.8L,3.8s
BJI VI 28 01 54 36.1 34.90S 72.70W 11 5.3s,5.2b
NEIC VI 28 01 54 39.5–.22 34.95S 72.70W 35 4.8L,4.6b
ISC Event type fe.
IDC Error ellipse: s-maj=29.8km s-min=22.4km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.6km az=1.5.
GUC Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.2km az=79.0. Felt [III] at Colbun and Constitucion and [II] at Cauquenes, Chanco, Longavi, Pelluhue, Pencahue and Talca.

(227) Eastern Honshu

ISC VI 28 03 45 04.8–.76 37.12N–.03 140.82E–.04 13–4 4.3b,3.3s 98 0-147
NIED VI 28 03 45 00 37.10N 140.90E 5 4.0W,3.3s ¶603244192
ISCJB VI 28 03 45 03.5–.66 37.12N–.03 140.94E–.05 15–4 4.3b,3.3s
JMA VI 28 03 45 04.1 37.12N 140.87E 9–1 4.3,3.3s
BJI VI 28 03 45 07.0 37.09N 140.78E 40 4.8b,4.5s
NEIC VI 28 03 45 08.5–.65 37.12N 140.82E 39–6 4.7b,4.5s
IDC VI 28 03 45 09.7–2.5 37.03N 140.74E 50–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ26.00000°,λ-107.00000°. NP2:ϕ_s238.00000°,δ65.00000°,λ-82.00000°. $M_0$1.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=25.1.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.5km az=133.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.2km s-min=14.0km az=90.0.

(160) Off east coast of North Island

WEL VI 28 05 02 08.1–.11 39.30S 177.30E 27–1 3.8L ¶16684580
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.

(137) San Juan Province

ISC VI 28 06 30 53.7–.68 31.07S–.04 68.45W–.04 102–6 3.8b 63 0-153
ISCJB VI 28 06 30 53.7–.34 31.15S–.03 68.47W–.04 112–3 3.9b ¶16731677
NEIC VI 28 06 30 53.3–.67 31.19S 68.33W 96–6 4.4,4.1b
IDC VI 28 06 30 53.3–2.6 31.21S 68.49W 96–23 4.1,3.9
SJA VI 28 06 30 53.8–.67 31.17S 68.48W 103–3 4.4L,4.2W
GUC VI 28 06 30 54.4–.41 31.11S 68.72W 146–30 4.3L,4.2W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.1km az=7.3.
NEIC Event type fe. Error ellipse: s-maj=11.6km s-min=7.2km az=81.0. Felt [III] at San Juan.
IDC Error ellipse: s-maj=33.2km s-min=19.3km az=87.0.
SJA Error ellipse: s-maj=1.7km s-min=2.6km az=-1.0.
GUC Error ellipse: s-maj=1.5km s-min=19.5km az=-1.0.

(228) Near east coast of eastern Honshu

ISC VI 28 06 50 54.6–1.6 38.39N–.04 142.04E–.08 30–11 4.1b 34 1-150
NIED VI 28 06 50 00 38.40N 141.80E 53 4.1W ¶17207120
IDC VI 28 06 50 49.9–1.1 38.33N 142.43E 0 4.2,4.1
ISCJB VI 28 06 50 55.9–.91 38.37N–.04 141.91E–.09 49–8 4.0b,4.1
JMA VI 28 06 50 57.1–.10 38.43N 141.79E 56–1 4.0,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ33.00000°,λ89.00000°. NP2:ϕ_s46.00000°,δ58.00000°,λ91.00000°. $M_0$1.50000×10^{15}
IDC Error ellipse: s-maj=26.7km s-min=23.3km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.2km az=16.6.
JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC VI 28 07 22 53.9–2.1 38.88N–.05 142.2E–.10 30–12 18 0-60
IDC VI 28 07 22 47.2–3.1 39.08N 142.75E 0 4.3,4.3s ¶17207123
JMA VI 28 07 22 56.5–.10 38.86N 142.03E 46–1 3.5,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=71.3km s-min=40.6km az=66.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(228) Near east coast of eastern Honshu
ISC VI 28 07 29 01.8–1.4 36.37N–.04 141.05E–.06 23–12 22 0-56
IDC VI 28 07 28 57.6–2.8 36.37N 141.29E 0 3.5,3.4 ¶17207125
ISCJB VI 28 07 29 01.9–.80 36.35N–.03 141.03E–.06 30–5 3.4b,3.4
JMA VI 28 07 29 02.4–.10 36.32N 141.00E 43–1 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=28.4km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.0km az=0.9.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 28 08 11 07.6–1.0 38.40N–.04 142.00E–.08 51–9 3.6b 33 1-89
ISCJB VI 28 08 11 06.9–.80 38.40N–.04 141.94E–.09 61–7 3.5b ¶17207128
IDC VI 28 08 11 06.6–2.6 38.38N 142.04E 42–26 3.6,3.6
JMA VI 28 08 11 08.7–.10 38.44N 141.83E 57–1 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.8km az=19.4.
IDC Error ellipse: s-maj=29.9km s-min=19.9km az=102.0.
JMA Event type fe.
(228) Near east coast of eastern Honshu
ISC VI 28 08 27 02.0–1.5 37.35N–.03 141.27E–.06 13–9 3.5b 27 0-57
IDC VI 28 08 26 59.3–1.3 37.54N 141.66E 0 3.7,3.5 ¶17207130
ISCJB VI 28 08 27 01.1–1.2 37.30N–.04 141.47E–.07 17–9 3.4b,3.5
JMA VI 28 08 27 03.5–.10 37.34N 141.31E 27–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=32.2km s-min=23.2km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=19.9.
JMA Event type fe.
(228) Near east coast of eastern Honshu
JMA VI 28 09 13 10.8–.10 38.90N 142.50E 39–2 3.6
¶600651473
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
(543) Germany
ISC VI 28 09 58 21.8–.72 51.44N–.02 6.55E–.02 0 212 0-8
ISCJB VI 28 09 58 21.1–.36 51.48N–.02 6.48E–.03 0 ¶16692801
BUG VI 28 09 58 22.1 51.51N 6.57E 1 2.8L
CSEM VI 28 09 58 22.6–.21 51.46N 6.57E 1 3.6L
BGR VI 28 09 58 23.7–.25 51.46N 6.64E 1 3.1L
LDG VI 28 09 58 23.0–.12 51.49N 6.63E 1 3.5L,3.2
BNS VI 28 09 58 23.8–.48 51.49N 6.66E 1–7 2.8L,3.2
UCC VI 28 09 58 24.9 51.49N 6.66E 0 2.8L,3.2
PRU VI 28 09 58 24.2 51.58N 6.70E 0 2.8L,3.2
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.2km s-min=2.1km az=138.1.
GDNRW Event type fi.
CSEM Event type ki. Error ellipse: s-maj=4.1km s-min=2.9km az=145.0.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=121.0.
LDG Event type sr. Error ellipse: s-maj=2.7km s-min=1.8km az=142.0. Suspected Mining induced.
BNS Event type ki.
UCC Event type ki.
(235) Kyushu
ISC VI 28 12 18 27.1–1.1 33.02N–.04 130.72E–.04 5–8 3.5b,3.1s 17 0-68
NIED VI 28 12 18 00 33.00N 130.70E 11 4.1W,3.1s ¶603244194
ISCJB VI 28 12 18 25.9–.55 33.03N–.04 130.73E–.06 13–4 3.5b,3.1s
IDC VI 28 12 18 26.2–.88 33.10N 130.67E 0 3.7,3.6
JMA VI 28 12 18 26.2 33.02N 130.74E 11–1 4.2,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ76.00000°,λ179.00000°. NP2:ϕ_s310.00000°,δ89.00000°,λ14.00000°. $M_0$1.64000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.3km az=36.1.
IDC Error ellipse: s-maj=15.9km s-min=6.0km az=178.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ87.00000°,λ-10.00000°. NP2:ϕ_s221.00000°,δ80.00000°,λ-177.00000°. Principal axes: T Plg5.0000°,Azm176.0000°; N Plg80.0000°,Azm295.0000°; P Plg9.0000° ,Azm85.0000°
(228) Near east coast of eastern Honshu
ISC VI 28 13 22 58.1–1.6 38.19N–.05 142.13E–.09 43–14 4.2b,3.1s 54 1-146
NIED VI 28 13 22 00 38.20N 142.00E 47 4.1W,3.1s ¶16721024
ISCJB VI 28 13 22 57.9–.68 38.19N–.03 142.01E–.07 59–5 4.3b,3.0s
JMA VI 28 13 22 58.6–.10 38.21N 142.00E 50–1 4.2,3.0s
NEIC VI 28 13 22 59.9–.61 38.21N 141.99E 61–5 4.9b,3.0s
IDC VI 28 13 23 00.5–2.3 38.17N 141.93E 65–21 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ21.00000°,λ112.00000°. NP2:ϕ_s196.00000°,δ70.00000°,λ82.00000°. $M_0$1.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.0km az=19.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=115.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=18.5km s-min=12.8km az=87.0.
(228) Near east coast of eastern Honshu
JMA VI 28 13 54 14.4–.10 40.03N 142.41E 38–1 3.8
NIED VI 28 13 54 00 40.00N 142.40E 47 3.6W ¶600651745
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ13.00000°,λ-20.00000°. NP2:ϕ_s179.00000°,δ85.00000°,λ-102.00000°. $M_0$2.70000×10^{14}
(162) South Island
WEL VI 28 14 27 20.1–.12 43.61S 172.76E 9–0 4.1L
NEIC VI 28 14 27 19.9 43.60S 172.78E 10 4.1L ¶16685963
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
(162) South Island
WEL VI 28 14 30 47.4–.22 43.61S 172.81E 10–1 3.7L
¶16685964
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(45) California-Baja California border region
ISC VI 28 14 45 56.8–.94 33.01N–.02 115.58W–.02 18–3 52 0-3
ISCJB VI 28 14 45 57.0–.42 33.02N–.02 115.58W–.03 10–3 ¶600045351
NEIC VI 28 14 45 57.9 33.00N 115.56W 12 2.6L
ECX VI 28 14 45 58.5–.55 33.02N 115.62W 12 2.7L,2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=39.7.
NEIC Event type fe. Felt [II] at Brawley. After PAS.
ECX Error ellipse: s-maj=1.5km s-min=2.0km az=-1.0.
(267) Halmahera
ISC VI 28 15 13 50.5–.66 0.62S–.06 127.58E–.06 41 4.0b 39 0-72
IDC VI 28 15 13 44.7–.84 0.62S 127.69E 0 4.1,4.0 ¶16731711
ISCJB VI 28 15 13 48.3–.44 0.62S–.04 127.61E–.03 41 4.1b,3.5s
NEIC VI 28 15 13 50.5–1.1 0.67S 127.63E 46–12 4.7b,3.5s
DJA VI 28 15 13 50.4–.50 1S–3.0 128E–3.0 30 5.4b,4.8
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Labuha.
(228) Near east coast of eastern Honshu
ISC VI 28 16 17 14.1–2.3 37.09N–.05 141.30E–.08 17–14 23 0-57
NIED VI 28 16 17 00 37.10N 141.10E 68 3.9W ¶17207149
IDC VI 28 16 17 10.9–2.0 36.93N 141.46E 0 3.9,3.8
JMA VI 28 16 17 17.4–.10 37.13N 141.06E 54–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ57.00000°. NP2:ϕ_s44.00000°,δ71.00000°,λ103.00000°. $M_0$8.01000×10^{14}
IDC Error ellipse: s-maj=34.0km s-min=28.4km az=80.0.
JMA Event type fe.
(173) Tonga Islands

ISC VI 28 17 26 01.4–.31 15.39S–.06 173.35W–.06 42 4.9b,4.0s 301 2-154
BJI VI 28 17 25 55.1 15.53S 173.58W 9 5.3b,5.2s ¶16685966
IDC VI 28 17 25 55.5–.55 15.27S 173.34W 0 4.7,4.5
NEIC VI 28 17 25 56.9–.14 15.32S 173.40W 10 4.9b,4.5
GCMT VI 28 17 25 56.9–.30 15.31S 173.19W 27–1 5.1W,4.5
ISCJB VI 28 17 26 00.1–.17 15.28S–.05 173.52W–.04 42 4.9b,4.0s
ISC Event type fe.
NEIC Event type fe. Felt at Apia, Samoa.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c31; s75,c104;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.30±.14 $M_{\theta\theta}$-1.57±.11; $M_{\phi\phi}$1.27±.11; $M_{r\theta}$-5.88±.47; $M_{\theta\phi}$0.15±.09; $M_{\phi r}$-1.49±.20; Best double couple: NP1:ϕ_s254.00000°,δ86.00000°,λ82.00000°. NP2:ϕ_s140.00000°,δ9.00000°,λ155.00000°. Principal axes: T 5.6700,Plg48.0000°,Azm156.0000°; N 1.0130,Plg8.0000°,Azm255.0000° ; P -6.6810,Plg41.0000°,Azm352.0000° $M_0$6.17500×10^{16}
ISCJB Event type fe.
(228) Near east coast of eastern Honshu
JMA VI 28 18 55 39.4–.10 37.49N 141.43E 39–1 3.9
NIED VI 28 18 55 00 37.50N 141.40E 50 3.9W ¶600651932
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ53.00000°,λ-170.00000°. NP2:ϕ_s282.00000°,δ82.00000°,λ-37.00000°. $M_0$8.86000×10^{14}
(228) Near east coast of eastern Honshu
ISC VI 28 20 13 32.7–1.5 39.05N–.05 142.24E–.09 40–15 3.6b 28 0-59
NIED VI 28 20 13 00 39.10N 142.10E 47 3.6W ¶17207154
ISCJB VI 28 20 13 32.5–1.0 39.09N–.05 142.2E–.10 50–7 3.6b
JMA VI 28 20 13 33.7–.10 39.11N 142.12E 46–1 3.6
IDC VI 28 20 13 35.1–2.8 39.06N 142.25E 67–24 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ19.00000°,λ58.00000°. NP2:ϕ_s25.00000°,δ74.00000°,λ101.00000°. $M_0$2.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=5.6km az=20.6.
JMA Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=17.3km az=106.0.
(228) Near east coast of eastern Honshu
ISC VI 28 20 48 40.3–.57 36.60N–.04 141.58E–.05 26 4.1b 71 1-147
NIED VI 28 20 48 00 36.60N 141.50E 32 3.9W ¶16721026
IDC VI 28 20 48 36.1–.84 36.59N 141.74E 0 4.0,3.9
ISCJB VI 28 20 48 38.3–.34 36.59N–.03 141.65E–.04 26 4.2b,3.9
JMA VI 28 20 48 41.9–.10 36.61N 141.40E 45–2 4.0,3.9
NEIC VI 28 20 48 41.8–.48 36.60N 141.61E 38–4 4.7b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ20.00000°,λ-85.00000°. NP2:ϕ_s186.00000°,δ70.00000°,λ-92.00000°. $M_0$7.39000×10^{14}
IDC Error ellipse: s-maj=22.3km s-min=16.1km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.8km az=23.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=117.0. Recorded [1 JMA] in Fukushima and Ibaraki.
(78) Costa Rica
ISC VI 28 23 44 43.1–.68 10.73N–.03 85.12W–.03 12–4 4.8b,3.8s 522 0-141
IDC VI 28 23 44 38.0–2.0 10.30N 85.17W 0 4.4,4.2 ¶16711269
CASC VI 28 23 44 41.9–1.8 10.80N 85.12W 6–5 4.8b,4.3
ISCJB VI 28 23 44 42.2–.32 10.80N–.02 85.11W–.02 12–2 4.7b,3.9s
NEIC VI 28 23 44 47.4–1.3 10.52N 85.01W 56–12 4.8b,4.4
ISC Event type fe.
IDC Error ellipse: s-maj=53.1km s-min=24.7km az=27.0.
CASC Error ellipse: s-maj=1.8km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.5km az=135.7.
NEIC Event type fe. Error ellipse: s-maj=13.6km s-min=9.1km az=217.0. Felt at Alajuela, Bagaces, Liberia, Naranjo and Upala.
(162) South Island
WEL VI 28 23 46 48.3–.13 43.60S 172.75E 8–0 3.5L
¶16685973
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(227) Eastern Honshu
ISC VI 29 01 51 03.0–1.5 37.12N–.04 140.96E–.06 5–8 3.7b 31 0-82
NIED VI 29 01 51 00 37.10N 140.90E 5 3.8W ¶16721028
ISCJB VI 29 01 51 01.7–.91 37.13N–.04 141.02E–.06 8–4 3.8b
JMA VI 29 01 51 03.8 37.14N 140.86E 7–1 3.8
IDC VI 29 01 51 08.8–3.9 37.12N 140.99E 52–31 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ26.00000°,λ-81.00000°. NP2:ϕ_s215.00000°,δ65.00000°,λ-94.00000°. $M_0$5.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=27.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s55.00000°,δ56.00000°,λ-75.00000°. NP2:ϕ_s209.00000°,δ37.00000°,λ-111.00000°. Principal axes: T Plg10.0000°,Azm134.0000°; N Plg13.0000°,Azm226.0000°; P Plg74.0000° ,Azm7.0000°
IDC Error ellipse: s-maj=27.9km s-min=20.8km az=106.0.
(227) Eastern Honshu
ISC VI 29 02 04 55.4–1.2 37.13N–.04 140.88E–.06 7–6 3.7b 23 0-82
ISCJB VI 29 02 04 53.8–.94 37.13N–.05 141.00E–.06 6–4 3.5b ¶603244197
IDC VI 29 02 04 53.9–1.2 37.10N 140.98E 0 3.8,3.6
JMA VI 29 02 04 55.8 37.13N 140.85E 7–1 3.3,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.5km az=43.3.
IDC Error ellipse: s-maj=29.5km s-min=23.4km az=137.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s8.00000°,δ54.00000°,λ-106.00000°. NP2:ϕ_s214.00000°,δ39.00000°,λ-69.00000°. Principal axes: T Plg8.0000°,Azm109.0000°; N Plg13.0000°,Azm17.0000°; P Plg75.0000° ,Azm230.0000°
(99) Northern Colombia
ISC VI 29 02 23 45.1–.46 6.82N–.03 73.08W–.04 163–4 4.1b 146 0-154
ISCJB VI 29 02 23 44.0–.19 6.80N–.02 73.05W–.02 162–1 4.0b ¶16685974
FUNV VI 29 02 23 44.1 6.76N 73.25W 167 4.7W
NEIC VI 29 02 23 45.4–.52 6.75N 73.03W 159–6 4.3b
IDC VI 29 02 23 45.5–.46 6.79N 72.95W 167–4 4.0,3.7
RSNC VI 29 02 23 46.2–.78 6.78N 73.15W 151–3 4.6L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=38.1.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.3km az=104.0. Felt at Duitama.
IDC Error ellipse: s-maj=12.1km s-min=6.6km az=128.0.
RSNC Error ellipse: s-maj=2.4km s-min=3.4km az=-1.0.
(228) Near east coast of eastern Honshu
ISC VI 29 03 58 36.1–1.5 38.88N–.06 142.1E–.10 48–10 4.0b 31 0-73
NIED VI 29 03 58 00 38.90N 142.00E 59 3.9W ¶17207165
ISCJB VI 29 03 58 35.1–1.0 38.88N–.04 142.0E–.10 55–6 3.9b
JMA VI 29 03 58 36.5–.10 38.89N 141.97E 50–1 3.8
IDC VI 29 03 58 39.3–3.4 38.84N 141.95E 80–28 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s33.00000°,δ68.00000°,λ92.00000°. $M_0$6.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=6.2km az=15.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=30.4km s-min=19.4km az=74.0.
(162) South Island
WEL VI 29 04 48 08.1–.10 43.57S 172.79E 7–0 3.6L
¶16685975
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
(227) Eastern Honshu
ISC VI 29 05 27 19.4–1.2 37.72N–.03 140.02E–.04 7–10 23 0-58
IDC VI 29 05 27 17.5–2.4 37.76N 140.08E 0 3.8,3.5b ¶603244199
ISCJB VI 29 05 27 20.3–.58 37.69N–.03 139.95E–.03 9–5 3.4b,3.5b
JMA VI 29 05 27 20.7 37.68N 139.94E 8–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=40.7km s-min=35.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=140.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s242.00000°,δ60.00000°,λ133.00000°. NP2:ϕ_s0.00000°,δ51.00000°,λ40.00000°. Principal axes: T Plg53.0000°,Azm206.0000°; N Plg37.0000°,Azm37.0000°; P Plg5.0000°

,Azm303.0000°
(134) Off coast of central Chile

ISC	**VI**	**29 05 36 50.4–.83**	**33.90S–.03**	**72.17W–.04**	**30–5**	**5.5b,5.2s**	**1036**	**1-179**
IDC	VI	29 05 36 45.3–.37	33.95S	72.13W	0	5.2,5.2s		**¶16685765**
NEIC	VI	29 05 36 46.0	33.91S	72.34W	20	5.5b,5.2s		
GCMT	VI	29 05 36 46.0–.10	33.98S	72.54W	19–0	5.5W,5.2s		
GUC	VI	29 05 36 46.8–.47	33.91S	72.34W	20–7	5.1L,5.2s		
ISCJB	VI	29 05 36 47.5–.89	33.88S–.02	72.41W–.04	22–6	5.4b,5.2s		
BJI	VI	29 05 36 49.1	33.90S	72.10W	18	5.5s,5.4		
MOS	VI	29 05 36 50.0–1.1	33.77S	72.19W	31	5.6b,5.3s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.3km az=86.0.
NEIC Event type fe. Felt [III] at Curico, Iloca, Molina, Navidad, Paredones, Pichilemu and San Antonio; [II] at Chepica, Cobquecura, Colina, Concepcion, Constitucion, El Quisco, Lolol, Parral, Rancagua, San Carlos, Santa Cruz, Santiago, Talca, Talcahuano, Tiltil, Valparaiso and Vina del Mar. After GUC.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c145; s110,c196; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.52±.03 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$-1.43±.03; $M_{r\theta}$-0.05±.05; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$-2.02±.08; Best double couple: NP1:ϕ_s183.00000° ,δ72.00000°,λ87.00000°. NP2:ϕ_s13.00000°,δ18.00000°,λ100.00000°. Principal axes: T 2.5470,Plg63.0000°,Azm88.0000°; N -0.0760,Plg3.0000°,Azm184.0000° ; P -2.4730,Plg27.0000°,Azm275.0000° $M_0$2.51000×10^{17}
GUC Error ellipse: s-maj=1.9km s-min=5.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.9km az=176.8.
MOS Error ellipse: s-maj=14.7km s-min=7.0km az=100.8.

(162) South Island

WEL	**VI**	**29 06 03 06.8–.08**	**43.54S**	**172.16E**	**9–0**	**3.7L**	**¶16685976**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

(134) Off coast of central Chile

ISC	**VI**	**29 07 02 25.0–.38**	**33.97S–.03**	**72.36W–.04**	**17**	**4.7b,4.1s**	**134**	**1-179**
IDC	VI	29 07 02 21.9–.73	33.91S	72.25W	0	4.4,4.4L		**¶16685977**
NEIC	VI	29 07 02 23.0	33.97S	72.47W	30	4.7b,4.3L		
GUC	VI	29 07 02 23.7–.69	33.97S	72.47W	30–8	4.3L,4.3L		
ISCJB	VI	29 07 02 24.4–.27	34.01S–.03	72.43W–.04	17	4.6b,4.1s		
BJI	VI	29 07 02 24.4	34.00S	71.90W	18	5.3b,5.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=33.0km s-min=20.3km az=79.0.
NEIC Event type fe. Felt [II] at Curico, Iloca and Talca. After GUC.
GUC Error ellipse: s-maj=2.6km s-min=7.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=4.2km az=173.5.

(228) Near east coast of eastern Honshu

ISC	**VI**	**29 07 18 55.6–2.0**	**36.81N–.06**	**141.19E–.07**	**17–11**	**3.7b**	**28**	**0-147**
NIED	VI	29 07 18 00	36.80N	141.20E	11	4.0W		**¶17207175**
IDC	VI	29 07 18 52.8–.97	36.76N	141.12E	0	3.9,3.8b		
ISCJB	VI	29 07 18 55.3–1.1	36.80N–.05	141.20E–.07	28–5	3.7b,3.8b		
JMA	VI	29 07 18 55.7–.10	36.81N	141.16E	34–1	3.9,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ49.00000°,λ-56.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ-123.00000°. $M_0$9.77000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=22.9km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.3km az=36.7.
JMA Event type fe.

(162) South Island

ISC	**VI**	**29 07 43 45.7–1.0**	**43.50S–.03**	**170.27E–.02**	**10–8**		**86**	**0-148**
IDC	VI	29 07 43 44.0–1.1	43.80S	170.13E	0	3.7,3.6		**¶16685978**
ISCJB	VI	29 07 43 45.1–.58	43.50S–.03	170.24E–.04	8–5	3.4b,3.6		
NEIC	VI	29 07 43 45.7	43.48S	170.28E	5	4.1L,3.6		
WEL	VI	29 07 43 45.8–.09	43.49S	170.27E	5	4.0L,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=8.9km az=177.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=145.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the West Coast region, maximum reported intensity MM 4.

(135) Near coast of central Chile

ISC	**VI**	**29 08 22 13.4–.49**	**32.27S–.03**	**71.51W–.05**	**47–4**	**5.0b,3.9s**	**715**	**1-178**
MOS	VI	29 08 22 10.9–1.0	32.18S	71.28W	33	5.2b,3.9s		**¶16685772**
SJA	VI	29 08 22 13.2–1.4	32.19S	71.31W	10–13	4.7L,4.5W		
ISCJB	VI	29 08 22 13.4–.41	32.18S–.03	71.28W–.06	60–4	5.0b,4.5W		
GUC	VI	29 08 22 13.4–.73	32.24S	71.34W	43–2	4.8L,4.5W		
IDC	VI	29 08 22 13.6–.50	32.20S	71.29W	50–3	4.7,4.5b		
NEIC	VI	29 08 22 13.0	32.24S	71.34W	43	5.0b,4.5b		
BJI	VI	29 08 22 14.3	32.20S	71.20W	50	5.1s,5.0		

ISC Event type fe.
MOS Error ellipse: s-maj=18.0km s-min=7.8km az=103.0.
SJA Error ellipse: s-maj=7.4km s-min=21.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.3km az=171.7.
GUC Error ellipse: s-maj=2.2km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=13.5km az=81.0.
NEIC Event type fe. Felt [IV] at Los Vilos and Zapallar; [III] at Canela, Colina, Illapel, Lampa, Quillota, Quilpue, Salamanca, San Bernardo, Santiago, Talagante, Tiltil, Valparaiso, Villa Alemana and Vina del Mar; [II] at Puente Alto, Rancagua and San Jose de Maipo. Also felt at La Ligua, Limache and San Antonio. After GUC.

(228) Near east coast of eastern Honshu

JMA	**VI**	**29 08 35 32.0–.10**	**37.43N**	**141.27E**	**26–1**	**3.6**		
NIED	VI	29 08 35 00	37.40N	141.30E	32	3.5W		**¶600652303**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ35.00000°,λ65.00000°. NP2:ϕ_s235.00000°,δ59.00000°,λ106.00000°. $M_0$1.78000×10^{14}

(227) Eastern Honshu

ISC	**VI**	**29 10 32 40.0–.78**	**36.20N–.03**	**137.99E–.03**	**10**	**3.5b**	**24**	**0-60**
ISCJB	VI	29 10 32 38.6–.42	36.21N–.03	137.96E–.03	10	3.5b,2.9s		**¶16686675**
JMA	VI	29 10 32 38.8	36.19N	137.95E	4–1	3.4,2.9s		
IDC	VI	29 10 32 39.1–1.0	36.22N	137.94E	0	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=4.0km az=137.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ74.00000°,λ143.00000°. NP2:ϕ_s345.00000°,δ55.00000°,λ20.00000°. Principal axes: T Plg37.0000°,Azm199.0000°; N Plg50.0000°,Azm43.0000°; P Plg12.0000° ,Azm298.0000°
IDC Error ellipse: s-maj=12.2km s-min=7.7km az=123.0.

(111) Northern Peru

ISC	**VI**	**29 10 41 33.0–.48**	**6.21S–.05**	**76.85W–.08**	**41**	**4.6b**	**63**	**2-150**
IDC	VI	29 10 41 27.3–.74	6.09S	77.01W	0	4.2,4.1		**¶16702438**
ISCJB	VI	29 10 41 31.3–.33	6.23S–.03	76.89W–.05	41	4.5b,3.7s		
NEIC	VI	29 10 41 34.3–.71	6.30S	76.99W	53–7	4.7b,3.7s		
BJI	VI	29 10 41 35.5	6.30S	76.70W	69	5.3b,5.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=17.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=3.8.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.4km az=83.0. Felt [III] at Nueva Cajamarca and Rioja; [II] at Moyobamba, Soritor and Tarapoto. Also felt at Jepelacio, Lamas, San Jose de Sisa and Tabalosos.

(137) San Juan Province

ISC	**VI**	**29 12 40 35.4–.52**	**31.87S–.05**	**68.28W–.04**	**117–5**	**4.2b**	**65**	**0-172**
ISCJB	VI	29 12 40 34.6–.32	31.95S–.04	68.27W–.04	124–4	4.4b		**¶16685980**
SJA	VI	29 12 40 34.9–.44	31.97S	68.26W	122–6	4.3L,4.0W		
GUC	VI	29 12 40 35.9–.39	31.75S	68.89W	9–8	3.9L,4.0W		
IDC	VI	29 12 40 36.0–.63	31.89S	68.38W	124–5	4.1,3.9		
NEIC	VI	29 12 40 35.1–.60	31.95S	68.23W	115–6	4.3,4.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.4km az=164.0.
SJA Error ellipse: s-maj=2.3km s-min=2.8km az=-1.0.
GUC Error ellipse: s-maj=2.4km s-min=11.1km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=16.2km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.7km az=85.0. Felt [IV] at San Juan.

(171) South of Fiji Islands

ISC	**VI**	**29 13 04 02.6–.40**	**22.73S–.07**	**179.48W–.08**	**579**	**4.2b**	**114**	**5-170**
IDC	VI	29 13 03 59.4–1.2	22.54S	179.50W	534–13	4.3,3.5		**¶16702440**
ISCJB	VI	29 13 04 01.9–.32	22.76S–.06	179.57W–.08	579	4.1b,3.5		
NEIC	VI	29 13 04 02.4–1.3	22.62S	179.62W	571–12	4.3b,3.5		

ISC Event type fe.
IDC Error ellipse: s-maj=14.5km s-min=11.4km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=8.0km az=25.6.
NEIC Event type fe. Error ellipse: s-maj=23.8km s-min=14.8km az=136.0. Felt at Suva.

(228) Near east coast of eastern Honshu

ISC	**VI**	**29 14 19 34.1–1.1**	**36.96N–.05**	**141.13E–.08**	**46–8**	**3.9b**	**36**	**0-74**
NIED	VI	29 14 19 00	37.00N	141.10E	50	3.8W		**¶17207200**
ISCJB	VI	29 14 19 32.3–.70	36.95N–.04	141.21E–.07	52–5	3.8b		
JMA	VI	29 14 19 33.8–.10	36.96N	141.07E	51–1	3.9		
IDC	VI	29 14 19 35.1–1.7	36.96N	141.12E	62–15	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ23.00000°,λ98.00000°. NP2:ϕ_s21.00000°,δ68.00000°,λ87.00000°. $M_0$6.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.4km az=20.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=10.2km az=88.0.

(235) Kyushu

ISC	**VI**	**29 14 36 10.8–.78**	**33.38N–.05**	**131.93E–.04**	**66–6**	**3.5b**	**33**	**0-71**
NIED	VI	29 14 36 00	33.40N	131.90E	59	3.9W		**¶17207201**
ISCJB	VI	29 14 36 09.8–.40	33.38N–.04	131.93E–.04	74–3	3.5b		
JMA	VI	29 14 36 11.1	33.41N	131.91E	64–1	3.8		
IDC	VI	29 14 36 11.4–1.2	33.33N	131.83E	74–11	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ27.00000°,λ96.00000°. NP2:ϕ_s91.00000°,δ63.00000°,λ87.00000°. $M_0$6.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=161.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s106.00000°,δ68.00000°,λ67.00000°. NP2:ϕ_s335.00000°,δ31.00000°,λ135.00000°. Principal axes: T Plg60.0000°,Azm342.0000°; N Plg21.0000°,Azm115.0000°; P Plg20.0000° ,Azm213.0000°
IDC Error ellipse: s-maj=20.8km s-min=17.8km az=68.0.

(267) Halmahera

ISC	**VI**	**29 15 16 47.4–.47**	**1.58N–.05**	**127.42E–.06**	**128**	**4.4b**	**73**	**2-81**
ISCJB	VI	29 15 16 45.4–.30	1.64N–.03	127.49E–.05	128	4.4b		**¶16702446**
NEIC	VI	29 15 16 48.5–1.4	1.63N	127.58E	148–13	4.4b		
IDC	VI	29 15 16 48.8–2.1	1.57N	127.36E	144–19	4.3,3.9		
DJA	VI	29 15 16 50.2–1.2	1N–3.0	127E–4.0	23–10	4.9,4.8		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Labuha.

(228) Near east coast of eastern Honshu

JMA	**VI**	**29 15 59 38.9**	**38.44N**	**141.84E**	**57–1**	**3.9**		
NIED	VI	29 15 59 00	38.40N	141.80E	74	3.8W		**¶600652564**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ33.00000°,λ110.00000°. NP2:ϕ_s360.00000°,δ59.00000°,λ78.00000°. $M_0$4.78000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**VI**	**29 17 09 31.8–1.1**	**38.17N–.04**	**141.77E–.07**	**44–10**	**3.9b**	**50**	**0-146**
NIED	VI	29 17 09 00	38.20N	141.60E	59	4.0W		**¶600652598**
ISCJB	VI	29 17 09 31.2–.62	38.18N–.03	141.74E–.07	53–5	3.9b,2.9s		
JMA	VI	29 17 09 32.9–.10	38.21N	141.60E	53–1	4.0,2.9s		
IDC	VI	29 17 09 32.5–1.6	38.16N	141.78E	49–16	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ44.00000°,λ92.00000°. NP2:ϕ_s195.00000°,δ46.00000°,λ88.00000°. $M_0$1.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.7km az=15.0.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=10.5km az=92.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**29 17 49 47.7–.94**	**35.67N–.03**	**140.90E–.06**	**15–5**	**3.6b**	**24**	**0-59**
NIED	VI	29 17 49 00	35.70N	140.90E	8	3.7W		**¶17207207**
IDC	VI	29 17 49 46.0–1.6	35.62N	140.98E	0	3.6,3.5		
ISCJB	VI	29 17 49 46.2–.90	35.67N–.03	141.08E–.07	16–6	3.5b,3.5		
JMA	VI	29 17 49 48.5–.10	35.66N	140.86E	14–1	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ39.00000°,λ-75.00000°. NP2:ϕ_s165.00000°,δ52.00000°,λ-102.00000°. $M_0$4.66000×10^{14}
IDC Error ellipse: s-maj=34.1km s-min=18.8km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.0km az=177.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s177.00000°,δ70.00000°,λ-111.00000°. NP2: ϕ_s45.00000°,δ29.00000°,λ-46.00000°. Principal axes: T Plg22.0000°,Azm283.0000° ; N Plg19.0000°,Azm185.0000°; P Plg60.0000°,Azm57.0000°

(228) Near east coast of eastern Honshu

JMA	**VI**	**29 18 23 05.2**	**36.70N**	**140.56E**	**5–1**	**2.8**	**¶600652631**

JMA Event type fe.

(228) Near east coast of eastern Honshu

ISC	**VI**	**29 19 52 02.4–1.9**	**36.59N–.04**	**140.91E–.06**	**12–13**	**3.5b**	**20**	**0-60**
IDC	VI	29 19 51 58.9–1.9	36.59N	141.28E	0	3.7,3.6		**¶17207217**
ISCJB	VI	29 19 52 00.8–1.2	36.54N–.04	141.07E–.06	9–6	3.6b,3.6		
NIED	VI	29 19 52 00	36.60N	140.90E	5	3.5W,3.6		
JMA	VI	29 19 52 02.7–.10	36.55N	140.95E	19–2	3.8,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=48.1km s-min=20.6km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.4km az=14.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ53.00000°,λ-150.00000°. NP2:ϕ_s213.00000°,δ66.00000°,λ-41.00000°. $M_0$2.32000×10^{14}
JMA Event type fe.

(229) Off east coast of Honshu

ISC	**VI**	**29 20 09 47.0–.78**	**37.06N–.05**	**142.46E–.05**	**19–2**	**4.4b,3.8s**	**131**	**1-146**
NIED	VI	29 20 09 00	37.10N	142.40E	17	4.5W,3.8s		**¶16704494**
ISCJB	VI	29 20 09 43.5–1.0	37.09N–.03	142.46E–.03	7–6	4.3b,3.8s		
BJI	VI	29 20 09 44.8	36.79N	142.65E	30	4.8b,4.5b		
IDC	VI	29 20 09 44.4–.52	37.05N	142.34E	0	4.3,4.2		
JMA	VI	29 20 09 45.3–.30	37.06N	142.37E	22–5	4.4,4.2		
NEIC	VI	29 20 09 46.4–2.4	37.06N	142.43E	14–15	4.7b,4.2		
MOS	VI	29 20 09 47.4–.97	37.21N	142.44E	32	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ49.00000°,λ-133.00000°. NP2:ϕ_s145.00000°,δ57.00000°,λ-52.00000°. $M_0$5.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.6km az=156.1.
IDC Error ellipse: s-maj=14.8km s-min=11.7km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.1km az=115.0. Recorded [1 JMA] in Fukushima and Miyagi.
MOS Error ellipse: s-maj=8.8km s-min=5.9km az=104.1.

(162) South Island

WEL	**VI**	**29 21 39 36.7–.06**	**43.60S**	**172.53E**	**5**	**3.5L**	
NEIC	VI	29 21 39 36.4	43.60S	172.50E	2	3.9L	**¶16947404**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt [IV] at Christchurch, Halswell and Hornby. After WEL.

(228) Near east coast of eastern Honshu

JMA	**VI**	**29 22 04 41.0–.10**	**36.43N**	**140.55E**	**54–1**	**3.5**		
NIED	VI	29 22 04 00	36.40N	140.50E	53	3.4W		**¶600652693**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ36.00000°,λ77.00000°. NP2:ϕ_s357.00000°,δ55.00000°,λ99.00000°. $M_0$1.63000×10^{14}

(228) Near east coast of eastern Honshu

ISC	**VI**	**29 22 14 36.1–.47**	**35.68N–.03**	**140.56E–.03**	**34–1**	**4.8b,4.1s**	**488**	**0-149**
NIED	VI	29 22 14 00	35.70N	140.70E	50	5.0W,4.1s		**¶16686685**
BJI	VI	29 22 14 29.3	35.54N	141.02E	29	4.9b,4.9b		
MOS	VI	29 22 14 35.2–.94	35.72N	140.48E	37	5.1b,4.1s		
ISCJB	VI	29 22 14 36.7–.29	35.62N–.02	140.52E–.03	53–2	4.8b,4.1s		
JMA	VI	29 22 14 37.0–.10	35.74N	140.62E	51–1	4.6,4.1s		
NEIC	VI	29 22 14 38.5–.56	35.60N	140.46E	55–5	4.9b,4.1s		
GCMT	VI	29 22 14 38.5–.20	35.66N	140.74E	54–1	5.0W,4.1s		

IDC VI 29 22 14 38.1–1.3 35.64N 140.55E 52–12 4.6,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ17.00000°,λ67.00000°. NP2:ϕ_s12.00000°,δ74.00000°,λ97.00000°. $M_0$3.80000×10^{16}
MOS Error ellipse: s-maj=8.9km s-min=4.7km az=113.3.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.3km az=37.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s10.00000°,δ75.00000°,λ93.00000°. NP2: ϕ_s180.00000°,δ15.00000°,λ80.00000°. Principal axes: T Plg60.0000°,Azm284.0000° ; N Plg3.0000°,Azm189.0000°; P Plg30.0000°,Azm98.0000°
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=124.0. Felt at Narita. Recorded [3 JMA] in Chiba.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c81; s79,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.20±.13 $M_{\theta\theta}$-0.23±.09; $M_{\phi\phi}$-2.97±.09; $M_{r\theta}$0.20±.08; $M_{\theta\phi}$-0.46±.07; $M_{\phi r}$2.23±.08; Best double couple: NP1:ϕ_s7.00000°,δ63.00000° ,λ88.00000°. NP2:ϕ_s191.00000°,δ27.00000°,λ94.00000°. Principal axes: T 3.9220,Plg72.0000°,Azm272.0000°; N -0.1560,Plg2.0000°,Azm8.0000° ; P -3.7610,Plg18.0000°,Azm98.0000° $M_0$3.84100×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=8.2km az=86.0.

(227) Eastern Honshu

ISC	**VI**	**29 23 16 40.2–.49**	**36.21N–.03**	**137.98E–.03**	**14–2**	**4.8b,4.5s**	**391**	**0-151**
NIED	VI	29 23 16 00	36.20N	138.00E	5	5.0W,4.5s		**¶16686686**
BJI	VI	29 23 16 33.6	36.03N	138.39E	2	5.1b,5.0s		
IDC	VI	29 23 16 37.2–.49	36.25N	137.87E	0	4.4,4.4		
JMA	VI	29 23 16 37.0	36.19N	137.95E	4–1	5.4,4.4		
NEIC	VI	29 23 16 40.2–.19	36.26N	137.68E	10	4.9b,4.4		
GCMT	VI	29 23 16 40.2–.20	36.24N	137.84E	12	5.0W,4.4		
ISCJB	VI	29 23 16 41.3–.17	36.29N–.03	137.75E–.03	26	4.7b,4.5s		
MOS	VI	29 23 16 43.3–1.1	36.68N	137.71E	29	4.9b,4.5s		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ70.00000°,λ167.00000°. NP2:ϕ_s349.00000°,δ78.00000°,λ20.00000°. $M_0$3.15000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=6.0km az=142.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s77.00000° ,δ87.00000°,λ-166.00000°. NP2:ϕ_s347.00000°,δ76.00000°,λ-3.00000°. Principal axes: T Plg8.0000°,Azm211.0000°; N Plg75.0000°,Azm88.0000°; P Plg12.0000°,Azm303.0000°
NEIC Event type de. Error ellipse: s-maj=5.8km s-min=4.5km az=141.0. At least 7 people injured at Nagano. Felt at Matsumoto and Nishin. Recorded [5U JMA] in Nagano.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c59; s102,c169; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.42±.08 $M_{\theta\theta}$1.18±.07; $M_{\phi\phi}$-1.60±.07; $M_{r\theta}$-1.52±.19; $M_{\theta\phi}$-3.25±.06; $M_{\phi r}$-1.25±.20; Best double couple: NP1:ϕ_s79.00000°,δ84.00000° ,λ-156.00000°. NP2:ϕ_s346.00000°,δ66.00000°,λ-6.00000°. Principal axes: T 3.4570,Plg13.0000°,Azm210.0000°; N 1.0140,Plg65.0000°,Azm91.0000° ; P -4.4740,Plg21.0000°,Azm305.0000° $M_0$3.96600×10^{16}
ISCJB Event type de. Error ellipse: s-maj=4.3km s-min=2.8km az=153.9.
MOS Error ellipse: s-maj=8.0km s-min=5.8km az=101.8.

(227) Eastern Honshu

ISC	**VI**	**29 23 21 35.0–.94**	**36.19N–.02**	**137.94E–.03**	**5–6**	**4.6b**	**278**	**0-150**
NIED	VI	29 23 21 00	36.20N	138.00E	5	4.6W		**¶600652720**
BJI	VI	29 23 21 30.1	35.89N	138.34E	9	5.0b,4.8s		
JMA	VI	29 23 21 33.7	36.19N	137.95E	4–1	5.1,4.8s		
ISCJB	VI	29 23 21 33.1–.46	36.18N–.02	137.92E–.03	2–3	4.6s,4.5b		
IDC	VI	29 23 21 33.8–.53	36.16N	138.02E	0	4.3,4.2		
NEIC	VI	29 23 21 35.5–.26	36.15N	137.90E	10	4.7b,4.2		
MOS	VI	29 23 21 36.3–1.1	36.15N	137.93E	28	4.8b,4.2		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ48.00000°,λ167.00000°. NP2:ϕ_s339.00000°,δ80.00000°,λ42.00000°. $M_0$9.00000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s253.00000°,δ82.00000°,λ157.00000°. NP2:ϕ_s347.00000°,δ67.00000°,λ9.00000°. Principal axes: T Plg22.0000°,Azm208.0000°; N Plg66.0000°,Azm55.0000°; P Plg10.0000° ,Azm302.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=35.7.
IDC Error ellipse: s-maj=14.7km s-min=6.0km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=126.0. Felt at Matsumoto. Recorded [4 JMA] in Nagano.
MOS Error ellipse: s-maj=9.7km s-min=6.3km az=100.4.

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 01 19 34.0–.79**	**35.66N–.04**	**140.86E–.06**	**44–7**	**3.9b,3.1s**	**51**	**0-148**
NIED	VI	30 01 19 00	35.70N	140.70E	50	4.2W,3.1s		**¶16721033**
IDC	VI	30 01 19 28.3–.70	35.62N	140.86E	0	4.0,3.9		
NEIC	VI	30 01 19 32.2–2.3	35.69N	140.89E	28–17	4.3b,3.9		
ISCJB	VI	30 01 19 33.2–.47	35.74N–.03	140.82E–.06	55–4	4.0b,3.1s		
JMA	VI	30 01 19 34.5–.10	35.72N	140.68E	48–1	3.5,3.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ22.00000°,λ115.00000°. NP2:ϕ_s4.00000°,δ70.00000°,λ81.00000°. $M_0$2.07000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=13.6km az=76.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.7km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=171.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ74.00000°,λ79.00000°. NP2: ϕ_s223.00000°,δ19.00000°,λ123.00000°. Principal axes: T Plg60.0000°,Azm263.0000° ; N Plg10.0000°,Azm11.0000°; P Plg28.0000°,Azm107.0000°

(224) Hokkaido region

ISC	**VI**	**30 02 51 19.1–.79**	**42.04N–.05**	**142.55E–.04**	**64–7**	**4.0b**	**42**	**0-86**
NIED	VI	30 02 51 00	42.00N	142.60E	47	3.8W		**¶16721034**
ISCJB	VI	30 02 51 18.0–.48	42.04N–.05	142.55E–.05	71–3	3.8b		
JMA	VI	30 02 51 18.9–.20	42.04N	142.58E	62–2	3.8		
IDC	VI	30 02 51 20.7–1.8	42.10N	142.52E	78–13	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ39.00000°,λ129.00000°. NP2:ϕ_s46.00000°,δ61.00000°,λ63.00000°. $M_0$5.76000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=147.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s20.00000°,δ80.00000°,λ89.00000°. NP2: ϕ_s208.00000°,δ10.00000°,λ98.00000°. Principal axes: T Plg55.0000°,Azm288.0000° ; N Plg1.0000°,Azm20.0000°; P Plg35.0000°,Azm111.0000°
IDC Error ellipse: s-maj=19.2km s-min=11.9km az=121.0.

(227) Eastern Honshu

ISC	**VI**	**30 04 18 06.7–1.2**	**39.86N–.02**	**141.12E–.03**	**2–8**	**3.9b**	**42**	**0-145**
NIED	VI	30 04 18 00	39.90N	141.10E	5	3.4W		**¶16686688**
ISCJB	VI	30 04 18 06.8–.49	39.85N–.02	141.11E–.05	15–5	3.9b		
IDC	VI	30 04 18 06.4–.68	39.82N	140.82E	0	3.9,3.8b		
JMA	VI	30 04 18 07.0	39.87N	141.15E	8–1	3.5,3.8b		
NEIC	VI	30 04 18 09.8–2.4	39.85N	140.87E	23–18	4.3b,3.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ33.00000°,λ88.00000°. NP2:ϕ_s352.00000°,δ57.00000°,λ91.00000°. $M_0$1.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=12.4.
IDC Error ellipse: s-maj=21.2km s-min=13.4km az=113.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ75.00000°,λ87.00000°. NP2:ϕ_s175.00000°,δ15.00000°,λ100.00000°. Principal axes: T Plg60.0000°,Azm251.0000°; N Plg3.0000°,Azm346.0000°; P Plg30.0000° ,Azm77.0000°
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.8km az=121.0.

(227) Eastern Honshu

JMA	**VI**	**30 05 11 36.2**	**36.20N**	**137.95E**	**4–1**	**3.4**		**¶16686692**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s101.00000°,δ80.00000°,λ157.00000°. NP2:ϕ_s195.00000°,δ67.00000°,λ10.00000°. Principal axes: T Plg23.0000°,Azm56.0000°; N Plg65.0000°,Azm260.0000°; P Plg9.0000° ,Azm150.0000°

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 05 58 54.7–2.7**	**39.13N–.04**	**142.50E–.08**	**11–16**	**3.9b**	**31**	**1-67**
NIED	VI	30 05 58 00	39.20N	142.40E	35	3.9W		**¶17207237**
JMA	VI	30 05 58 57.0–.10	39.15N	142.42E	31–1	4.0		
IDC	VI	30 05 59 00.0–2.7	39.02N	142.41E	56–26	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ18.00000°,λ-110.00000°. NP2:ϕ_s175.00000°,δ73.00000°,λ-84.00000°. $M_0$9.40000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=25.6km s-min=14.0km az=90.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 06 32 09.7–1.7**	**38.25N–.04**	**142.10E–.08**	**29–11**	**3.7b**	**34**	**1-74**
NIED	VI	30 06 32 00	38.30N	141.90E	50	3.7W		**¶17207239**
IDC	VI	30 06 32 12.7–3.0	38.32N	142.17E	58–23	3.7,3.6		
JMA	VI	30 06 32 12.6–.10	38.28N	141.87E	46–1	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ18.00000°,λ153.00000°. NP2:ϕ_s339.00000°,δ82.00000°,λ74.00000°. $M_0$4.22000×10^{14}
IDC Error ellipse: s-maj=43.6km s-min=17.6km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 10 22 44.0–.36**	**37.39N–.03**	**141.55E–.03**	**32–2**	**4.9b,4.8s**	**519**	**1-143**
NIED	VI	30 10 22 00	37.40N	141.60E	44	4.7W,4.8s		**¶16692881**
BJI	VI	30 10 22 42.3	37.28N	141.63E	42	5.2b,5.0b		
MOS	VI	30 10 22 43.7–.79	37.51N	141.41E	35	5.2b,4.6s		
JMA	VI	30 10 22 44.4–.10	37.34N	141.59E	43–2	4.8,4.6s		
NEIC	VI	30 10 22 44.7–.12	37.36N	141.42E	35	4.9b,4.6s		
ISCJB	VI	30 10 22 45.0–.35	37.39N–.02	141.45E–.03	51–2	4.9b,4.6s		
IDC	VI	30 10 22 46.8–1.9	37.33N	141.51E	58–17	4.8,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ22.00000°,λ110.00000°. NP2:ϕ_s14.00000°,δ69.00000°,λ82.00000°. $M_0$1.43000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=4.3km az=104.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=139.0. Recorded [3 JMA] in Fukushima and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=135.7.
IDC Error ellipse: s-maj=14.2km s-min=10.7km az=106.0.

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 12 42 45.9–2.8**	**38.69N–.06**	**142.48E–.08**	**30–19**	**3.9b**	**30**	**1-88**
NIED	VI	30 12 42 00	38.70N	142.40E	38	3.9W		**¶17207254**
ISCJB	VI	30 12 42 45.5–1.1	38.70N–.05	142.5E–.10	44–10	3.8b,3.2s		
JMA	VI	30 12 42 46.6–.10	38.73N	142.38E	38–1	4.2,3.2s		
IDC	VI	30 12 42 48.0–2.6	38.67N	142.35E	50–24	3.8,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ29.00000°,λ154.00000°. NP2:ϕ_s200.00000°,δ78.00000°,λ63.00000°. $M_0$8.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.8km az=17.9.
JMA Event type fe.
IDC Error ellipse: s-maj=26.6km s-min=15.3km az=98.0.

(115) Near coast of Peru

NEIC	**VI**	**30 13 59 05.0**	**13.47S**	**76.30W**	**77**	**4.1**		**¶602918853**

NEIC Event type fe. Felt [II] at Chincha Alta and Tambo de Mora. After ARE.

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 14 07 58.0–.99**	**35.43N–.04**	**140.53E–.05**	**28–7**	**3.6b**	**23**	**0-59**
NIED	VI	30 14 07 00	35.50N	140.40E	41	4.0W		**¶17207257**
IDC	VI	30 14 07 54.2–1.1	35.34N	140.44E	0	3.8,3.7		
ISCJB	VI	30 14 07 57.6–.48	35.41N–.04	140.50E–.06	40–5	3.6b,3.7		
JMA	VI	30 14 07 58.4–.10	35.46N	140.41E	31–2	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ23.00000°,λ70.00000°. NP2:ϕ_s80.00000°,δ69.00000°,λ98.00000°. $M_0$9.48000×10^{14}
IDC Error ellipse: s-maj=29.9km s-min=16.3km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.9km az=178.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s84.00000°,δ66.00000°,λ91.00000°. NP2: ϕ_s261.00000°,δ24.00000°,λ88.00000°. Principal axes: T Plg69.0000°,Azm356.0000° ; N Plg1.0000°,Azm263.0000°; P Plg21.0000°,Azm173.0000°

(228) Near east coast of eastern Honshu

ISC	**VI**	**30 16 20 37.2–1.5**	**37.42N–.04**	**141.38E–.04**	**14–9**	**4.2b,3.3s**	**96**	**0-90**
NIED	VI	30 16 20 00	37.40N	141.30E	23	3.9W,3.3s		**¶16704505**
BJI	VI	30 16 20 31.9	37.47N	141.77E	11	4.7b,4.3b		
ISCJB	VI	30 16 20 38.0–.59	37.40N–.03	141.42E–.05	34–5	4.3b,3.3s		
JMA	VI	30 16 20 39.1–.10	37.44N	141.30E	29–1	4.2,3.3s		
NEIC	VI	30 16 20 41.0–.64	37.38N	141.34E	44–6	4.5b,3.3s		
IDC	VI	30 16 20 43.0–2.1	37.33N	141.29E	63–19	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ13.00000°,λ-87.00000°. NP2:ϕ_s237.00000°,δ77.00000°,λ-91.00000°. $M_0$7.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.2km az=26.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=126.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.7km s-min=13.5km az=106.0.

(162) South Island

WEL	**VI**	**30 19 47 49.8–.10**	**43.58S**	**172.79E**	**7–0**	**3.5L**		**¶16704509**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

(229) Off east coast of Honshu

ISC	**VI**	**30 21 47 57.5–.67**	**40.37N–.04**	**143.48E–.04**	**20–2**	**4.8b,4.1s**	**326**	**1-144**
NIED	VI	30 21 47 00	40.40N	143.50E	20	4.6W,4.1s		**¶16702925**
IDC	VI	30 21 47 54.0–.72	40.33N	143.54E	0	4.4,4.3		
ISCJB	VI	30 21 47 55.5–.76	40.36N–.02	143.50E–.03	17–5	4.6b,4.0s		
JMA	VI	30 21 47 55.2–.20	40.35N	143.52E	12–3	4.6,4.0s		
BJI	VI	30 21 47 57.9	40.41N	143.30E	34	4.9b,4.8b		
MOS	VI	30 21 47 59.5–.93	40.47N	143.22E	37	4.9b,4.8b		
NEIC	VI	30 21 47 59.3–1.6	40.38N	143.40E	30–11	4.8b,4.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ25.00000°,λ70.00000°. NP2:ϕ_s30.00000°,δ67.00000°,λ99.00000°. $M_0$7.73000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=14.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=40.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.1km az=121.5.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.8km az=118.0. Recorded [1 JMA] in Aomori and Iwate.

PROBABLE EXPLOSIONS

(329) Eastern Kazakhstan

ISC	**I**	**02 07 54 50.3–1.1**	**50.02N–.06**	**78.6E–.10**	**0**		**25**	**1-6**
ISCJB	I	02 07 54 48.9–.84	49.96N–.03	78.5E–.10	0			**¶16394645**
NNC	I	02 07 54 49.9–.59	50.02N	78.82E	0	2.8b,2.5		
IDC	I	02 07 54 50.6–1.0	50.10N	78.76E	0	2.6,2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=10.9km s-min=4.6km az=173.5.
NNC Event type sm. Error ellipse: s-maj=18.6km s-min=2.8km az=69.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=13.3km s-min=6.8km az=64.0.

(460) Wyoming

ISC	**I**	**02 20 02 28.1–.85**	**43.63N–.04**	**105.12W–.04**	**0**		**44**	**1-68**
IDC	I	02 20 02 27.6–2.1	43.56N	105.31W	0	4.3b,4.1		**¶17189237**
NEIC	I	02 20 02 28.5–.69	43.62N	105.08W	0	3.1L,4.1		
ISCJB	I	02 20 02 29.3–.75	43.60N–.04	105.31W–.06	0	4.6b,4.1		

ISC Event type sm.
NEIC Event type fm. 75 km [45 miles] WSW of Newcastle. Suspected Mining explosion.
ISCJB Event type fm.

(366) Turkey

ISC	**I**	**03 13 29 04.1–.79**	**39.97N–.03**	**32.37E–.03**	**0**		**36**	**0-2**
DDA	I	03 13 29 04.0	39.98N	32.40E	7	2.7		**¶16357791**
ISCJB	I	03 13 29 04.0–.49	39.97N–.04	32.39E–.04	0	2.7		
CSEM	I	03 13 29 04.0–.22	39.96N	32.38E	1	2.8		
ISK	I	03 13 29 04.0	39.93N	32.40E	9	2.8		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=3.4km az=27.7.
CSEM Event type sm. Error ellipse: s-maj=6.5km s-min=3.8km az=26.0. Suspected Mining explosion.

(366) Turkey

ISC	**I**	**03 14 53 51.9–2.5**	**40.7N–.10**	**41.3E–.20**	**0**		**9**	**0-1**
DDA	I	03 14 53 52.2	40.67N	41.36E	7	2.5		**¶601608313**

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC	**I**	**03 20 17 31.0–.69**	**43.58N–.05**	**105.06W–.05**	**0**	**4.1b**	**56**	**1-82**
ISCJB	I	03 20 17 29.9–.40	43.62N–.03	105.16W–.05	0	3.9b,3.8s		**¶17189359**
IDC	I	03 20 17 30.9–1.0	43.45N	105.31W	0	3.9b,3.8		
NEIC	I	03 20 17 31.6–.37	43.57N	105.16W	0	3.3L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.1km s-min=5.0km az=148.2.
IDC Error ellipse: s-maj=22.1km s-min=8.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=5.1km s-min=4.5km az=64.0. 83 km [52 miles] WSW of Newcastle. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**I**	**03 22 58 35.9–.72**	**49.82N–.03**	**18.42E–.02**	**0**		**85**	**0-4**
ISCJB	I	03 22 58 34.5–.37	49.87N–.03	18.35E–.03	0			**¶15908071**
IPEC	I	03 22 58 35.6–.18	49.84N	18.49E	0	2.3L		
CSEM	I	03 22 58 35.9–.19	49.82N	18.38E	2	3.2L		
VIE	I	03 22 58 36.4–.46	49.71N	18.42E	0	2.8L,2.1b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=2.3km az=13.8.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=3.0km az=12.0.
VIE Event type sr. Error ellipse: s-maj=3.3km s-min=2.0km az=71.0. Suspected Mining induced.

(536) Sweden

HEL	**I**	**04 00 23 08.0–.10**	**67.92N**	**20.31E**	**0**	**1.6L,1.5L**		
CSEM	I	04 00 23 07.5–.43	67.87N	20.39E	2	1.6L,1.5L		**¶600672622**
UPP	I	04 00 23 08.1–.10	67.85N	20.28E	0	1.5L,1.5L		

HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=10.4km s-min=8.6km az=90.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.

(548) Poland

ISC	**I**	**04 02 26 38.9–.80**	**50.09N–.03**	**19.08E–.02**	**0**		**49**	**0-4**
ISCJB	I	04 02 26 37.5–.51	50.12N–.04	19.04E–.03	0			**¶15908081**
IPEC	I	04 02 26 38.4–.20	50.16N	19.10E	2–1	1.7L		
CSEM	I	04 02 26 38.5–.29	50.11N	19.08E	2	2.6L		
PRU	I	04 02 26 38.6	50.15N	19.06E	0	2.6L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.4km s-min=2.5km az=9.8.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.4km az=9.0.
PRU Event type ki.

(366) Turkey

ISC	**I**	**04 08 31 03.2–1.0**	**41.56N–.04**	**35.43E–.03**	**0**		**32**	**0-2**
ISK	I	04 08 31 00.6	41.73N	35.52E	5	2.6		**¶16357801**
ISCJB	I	04 08 31 02.7–.88	41.59N–.05	35.45E–.06	0	2.6		
CSEM	I	04 08 31 02.7–.32	41.60N	35.44E	1	2.6		
DDA	I	04 08 31 02.4	41.58N	35.43E	7	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.8km s-min=4.2km az=33.6.
CSEM Event type sm. Error ellipse: s-maj=7.7km s-min=3.4km az=24.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(329) Eastern Kazakhstan

ISC	**I**	**04 08 55 11.0–.98**	**51.63N–.06**	**75.33E–.05**	**0**		**15**	**2-9**
IDC	I	04 08 55 10.5–.84	51.69N	75.48E	0	2.7,2.7		**¶16394874**
NNC	I	04 08 55 13.2–1.4	52.00N	75.81E	0	3.2b,2.8		

ISC Event type sm.
IDC Error ellipse: s-maj=23.4km s-min=6.5km az=29.0.
NNC Event type sm. Error ellipse: s-maj=21.5km s-min=7.8km az=26.0. Suspected Mining explosion.

(366) Turkey

ISC	**I**	**04 09 12 14.2–.92**	**37.63N–.04**	**41.60E–.02**	**0**		**37**	**0-2**
ISCJB	I	04 09 12 13.3–.60	37.55N–.04	41.62E–.03	0			**¶16357803**
DDA	I	04 09 12 14.0	37.64N	41.66E	7	2.9		
CSEM	I	04 09 12 13.4–.31	37.55N	41.62E	2	2.9		
ISK	I	04 09 12 15.4	37.63N	41.50E	13	2.9		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=3.5km az=176.3.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.

(723) Finland-Karelia border region

ISC	**I**	**04 11 03 47.9–.93**	**64.83N–.02**	**30.72E–.04**	**0**		**107**	**1-10**
ISCJB	I	04 11 03 46.5–.49	64.80N–.02	30.64E–.08	0			**¶15908608**
HEL	I	04 11 03 47.4–.40	64.84N	30.77E	0	2.0L,1.6L		
KOLA	I	04 11 03 47.9	64.69N	30.95E	0	2.0L,1.6L		
NAO	I	04 11 03 48.3–1.5	64.80N	30.64E		2.4L,1.6L		
CSEM	I	04 11 03 48.2–.43	64.84N	30.65E	2	2.0L,1.6L		
IDC	I	04 11 03 48.9–2.4	64.76N	30.73E	0	3.1,3.1		
BER	I	04 11 03 50.1–3.7	64.85N	30.38E	0	2.4L,3.1		
UPP	I	04 11 03 50.1–2.3	64.84N	30.50E	0	1.6L,3.1		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.0km s-min=2.9km az=11.9.
HEL Event type kh. Error ellipse: s-maj=1.5km s-min=3.0km az=-1.0. Explosion.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=10.3km s-min=6.0km az=96.0. Mining explosion.
IDC Error ellipse: s-maj=35.7km s-min=9.1km az=102.0.
BER Event type sh. Error ellipse: s-maj=8.3km s-min=40.4km az=-1.0. Suspected explosion.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0. Suspected explosion.

(366) Turkey

ISC	**I**	**04 11 16 16.1–.93**	**39.29N–.03**	**40.34E–.03**	**0**		**25**	**0-1**
ISK	I	04 11 16 14.0	39.30N	40.34E	18	2.5		**¶16357806**
ISCJB	I	04 11 16 15.0–.54	39.28N–.03	40.31E–.04	0	2.5		
CSEM	I	04 11 16 15.1–.45	39.29N	40.31E	2	2.5		
DDA	I	04 11 16 16.9	39.43N	40.32E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=4.1km az=146.0.
CSEM Event type sm. Error ellipse: s-maj=13.2km s-min=8.6km az=136.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(721) Finland

ISC	**I**	**04 13 38 43.7–.69**	**62.03N–.03**	**23.56E–.02**	**0**		**66**	**1-8**
ISCJB	I	04 13 38 40.9–.37	61.98N–.02	23.46E–.04	0			**¶17189427**
HEL	I	04 13 38 43.9–.10	62.02N	23.50E	0	2.0L		
CSEM	I	04 13 38 43.9	62.02N	23.50E	0	2.0L		
IDC	I	04 13 38 44.9–.70	61.98N	23.65E	0	3.0,2.9		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.2km s-min=2.9km az=164.5.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=1.8km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
IDC Error ellipse: s-maj=9.9km s-min=5.7km az=16.0.

(548) Poland

ISC	**I**	**04 16 25 43.0–.90**	**50.10N–.04**	**18.47E–.03**	**0**		**35**	**0-4**
ISCJB	I	04 16 25 42.2–.69	50.12N–.04	18.34E–.04	0			**¶15908089**
IPEC	I	04 16 25 43.1–.17	50.04N	18.47E	1–2	1.6L		
CSEM	I	04 16 25 43.0–.36	50.08N	18.39E	1	2.6L		
VIE	I	04 16 25 46.8–.55	49.72N	18.26E	0	2.1L		
PRU	I	04 16 25 46.1	50.02N	18.23E	0	2.1L		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.8km s-min=3.7km az=179.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=8.6km s-min=4.8km az=172.0.
VIE Event type sr. Error ellipse: s-maj=3.7km s-min=1.6km az=107.0. Suspected Mining induced.
PRU Event type ki.

(548) Poland

ISC	**I**	**04 16 46 57.1–1.1**	**51.45N–.05**	**16.09E–.02**	**0**		**54**	**1-4**
ISCJB	I	04 16 46 54.9–.81	51.46N–.04	16.13E–.04	0			**¶15908093**
CSEM	I	04 16 46 56.8–.53	51.44N	16.10E	2	2.8L		
PRU	I	04 16 46 58.4	51.41N	16.10E	0	2.8L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.7km s-min=3.1km az=8.3.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=4.1km az=172.0.
PRU Event type ki.

(548) Poland

ISC	**I**	**04 17 05 41.4–1.5**	**51.51N–.07**	**16.14E–.04**	**0**		**40**	**1-3**
ISCJB	I	04 17 05 40.6–1.0	51.48N–.04	16.09E–.05	0			**¶15908095**
CSEM	I	04 17 05 41.3–.70	51.50N	16.13E	2	2.8L		
PRU	I	04 17 05 42.3	51.46N	16.17E	0	2.8L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.9km s-min=4.1km az=24.8.
CSEM Event type ki.
PRU Event type ki.

(548) Poland

ISC	**I**	**04 20 57 18.5–1.3**	**51.52N–.06**	**16.16E–.03**	**0**		**52**	**1-4**
ISCJB	I	04 20 57 16.5–.90	51.50N–.04	16.18E–.04	0			**¶15908100**
CSEM	I	04 20 57 18.4–.54	51.50N	16.16E	2	3.0L		
PRU	I	04 20 57 20.6	51.44N	16.17E	0	3.0L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=3.4km az=13.4.
CSEM Event type ki. Error ellipse: s-maj=8.6km s-min=4.4km az=174.0.
PRU Event type ki.

(548) Poland

PRU	**I**	**04 21 24 29.5**	**50.12N**	**19.07E**	**0**			
CSEM	I	04 21 24 28.9–.22	50.13N	19.08E	2			**¶15908101**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=2.8km az=4.0.

(548) Poland

PRU	**I**	**04 21 25 21.2**	**50.18N**	**19.11E**	**0**			
CSEM	I	04 21 25 20.0–.31	50.15N	19.13E	1	2.4L		**¶15908104**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=3.5km az=8.0.

(548) Poland

PRU	**I**	**04 22 31 53.1**	**50.09N**	**18.41E**	**0**			
								¶15908106

PRU Event type ki.

(548) Poland

ISC	**I**	**05 05 02 55.2–.83**	**50.05N–.04**	**18.43E–.02**	**0**		**38**	**0-4**
ISCJB	I	05 05 02 53.7–.58	50.09N–.04	18.36E–.03	0			**¶15908117**
PRU	I	05 05 02 55.9	50.04N	18.38E	0			
IPEC	I	05 05 02 55.1–.17	50.05N	18.45E	0	1.5L		
CSEM	I	05 05 02 55.1–.26	50.04N	18.40E	1	2.5L		
VIE	I	05 05 02 57.7–.75	49.71N	18.35E	0–5	2.1L,1.4b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.7km s-min=3.0km az=3.2.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.1km s-min=3.2km az=178.0.
VIE Event type sr. Error ellipse: s-maj=4.9km s-min=2.0km az=115.0. Suspected Mining induced.

(548) Poland

ISC	**I**	**05 07 49 22.1–.79**	**50.01N–.04**	**18.54E–.02**	**0**		**41**	**0-4**
ISCJB	I	05 07 49 20.4–.53	50.02N–.04	18.49E–.03	0			**¶15908121**
CSEM	I	05 07 49 21.4–.29	50.00N	18.50E	2	2.7L		
IPEC	I	05 07 49 21.3–.17	49.96N	18.61E	5–1	2.0L		
PRU	I	05 07 49 22.6	50.00N	18.48E	0	2.0L		
VIE	I	05 07 49 23.3–.80	49.72N	18.46E	0	2.3L,1.6b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.9km s-min=2.6km az=4.6.
CSEM Event type ki. Error ellipse: s-maj=8.2km s-min=3.4km az=178.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=160.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=7.1km s-min=2.7km az=121.0. Suspected Mining induced.

(713) Central Kazakhstan

ISC	**I**	**05 08 07 39.4–1.3**	**48.35N–.08**	**70.29E–.06**	**0**		**20**	**4-11**
ISCJB	I	05 08 07 36.6–.87	48.37N–.05	70.31E–.07	0			**¶16394966**
NNC	I	05 08 07 40.0–1.6	48.48N	70.29E	0	3.6,3.5b		
SOME	I	05 08 07 39.1	49.10N	69.43E		3.6,3.5b		
IDC	I	05 08 07 41.7–2.7	48.48N	70.45E	0	2.8,2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.2km s-min=5.7km az=39.2.
NNC Event type sm. Error ellipse: s-maj=12.8km s-min=11.0km az=122.0. Suspected Mining explosion.
SOME Event type kx.
IDC Error ellipse: s-maj=31.1km s-min=11.2km az=48.0.

(543) Germany

ISC	**I**	**05 08 33 40.7–.68**	**51.45N–.01**	**6.52E–.02**	**0**		**322**	**0-8**
ISCJB	I	05 08 33 39.6–.25	51.43N–.01	6.41E–.03	0			**¶15908123**
BUG	I	05 08 33 41.1	51.46N	6.54E	1	3.1L		
CSEM	I	05 08 33 41.3–.14	51.48N	6.56E	1	3.8L		
PRU	I	05 08 33 41.6	51.47N	6.54E	0	3.8L		
LDG	I	05 08 33 42.2–.09	51.49N	6.64E	1	3.7L		
UCC	I	05 08 33 42.1	51.52N	6.60E	7	3.1L		
BGR	I	05 08 33 43.0–.22	51.48N	6.65E	1	3.2L		
BNS	I	05 08 33 43.1–1.6	51.45N	6.61E	1–36	3.1L		
STR	I	05 08 33 46.4–.20	51.22N	6.50E	1	3.3L		

ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=2.5km s-min=1.7km az=31.7.
GDNRW Event type fi.
CSEM Event type ki. Error ellipse: s-maj=2.8km s-min=2.2km az=140.0.
LDG Event type sr. Error ellipse: s-maj=2.0km s-min=1.4km az=145.0. Suspected Mining induced.
UCC Event type ki.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=113.0.
BNS Event type ki.
STR Event type ke.

(329) Eastern Kazakhstan

ISC	**I**	**05 11 04 03.0–.95**	**51.75N–.06**	**75.46E–.05**	**0**		**28**	**2-9**

ISCJB I 05 11 04 01.8–.45 51.59N–.05 75.37E–.06 0 ¶16394978
NNC I 05 11 04 02.5–.59 51.73N 75.42E 0 3.2b,2.8
IDC I 05 11 04 03.7–.83 51.75N 75.51E 0 2.7,2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.8km s-min=3.3km az=28.9.
NNC Event type sm. Error ellipse: s-maj=11.9km s-min=3.8km az=27.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=30.4km s-min=6.6km az=29.0.

(366) Turkey

ISC I 05 13 55 31.9–.90 40.54N–.03 37.71E–.02 0 36 0-2
ISCJB I 05 13 55 31.9–.47 40.56N–.03 37.70E–.03 0 ¶16357830
DDA I 05 13 55 31.9 40.55N 37.67E 7 2.7
ISK I 05 13 55 31.3 40.49N 37.76E 7 2.6
CSEM I 05 13 55 32.0–.20 40.56N 37.71E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.2km az=157.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.0km s-min=3.3km az=158.0. Suspected Mining explosion.

(366) Turkey

ISC I 05 14 23 53.6–.81 37.27N–.03 37.23E–.03 0 37 0-2
ISK I 05 14 23 52.8 37.28N 37.21E 7 2.7 ¶16357831
ISCJB I 05 14 23 53.5–.51 37.24N–.03 37.20E–.03 0 2.7
CSEM I 05 14 23 53.1–.39 37.29N 37.19E 1 2.7
DDA I 05 14 23 54.0 37.29N 37.14E 2 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.9km az=11.7.
CSEM Event type sm. Error ellipse: s-maj=10.0km s-min=8.3km az=46.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(369) Dodecanese Islands

ISC I 05 14 29 12.6–.96 36.91N–.04 28.22E–.03 0 27 0-1
ISCJB I 05 14 29 13.2–.71 36.94N–.04 28.22E–.04 0 ¶16357832
CSEM I 05 14 29 13.2–.43 36.92N 28.24E 1 2.4
DDA I 05 14 29 14.2 36.98N 28.18E 7 2.5
ISK I 05 14 29 14.0 37.03N 28.19E 14 2.4
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.6km s-min=4.0km az=14.9.
CSEM Event type sm. Error ellipse: s-maj=9.6km s-min=6.1km az=10.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 05 14 49 28.2–.78 40.68N–.02 41.18E–.03 0 55 0-2
ISCJB I 05 14 49 27.8–.43 40.70N–.02 41.15E–.03 0 ¶16357834
DDA I 05 14 49 27.8 40.70N 41.18E 8 2.9
CSEM I 05 14 49 28.0–.24 40.69N 41.15E 2 2.9
ISK I 05 14 49 31.2 40.42N 40.96E 5 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.9km s-min=2.7km az=39.1.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.8km s-min=3.6km az=129.0. Suspected Mining explosion.

(548) Poland

ISC I 05 16 22 54.2–1.2 51.47N–.05 16.08E–.03 0 52 1-3
ISCJB I 05 16 22 53.0–.84 51.44N–.04 16.10E–.04 0 ¶15908129
IPEC I 05 16 22 53.6–.28 51.52N 16.18E 0 2.0L
CSEM I 05 16 22 54.2–.41 51.46N 16.10E 2 3.0L
PRU I 05 16 22 55.2 51.44N 16.10E 0 3.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.6km s-min=3.4km az=12.7.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.2km az=34.0.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=3.6km az=173.0.
PRU Event type ki.

(536) Sweden

ISC I 05 18 12 24.5–.72 67.09N–.02 21.00E–.02 0 112 1-8
ISCJB I 05 18 12 23.5–.35 67.09N–.02 21.07E–.07 0 ¶15908755
HEL I 05 18 12 24.8–.10 67.10N 20.97E 0 2.0L,1.8L
CSEM I 05 18 12 24.6–.21 67.09N 21.03E 2 1.8L,1.8L
UPP I 05 18 12 24.2–.10 67.08N 21.02E 0 1.8L,1.8L
NAO I 05 18 12 25.1–1.0 67.08N 21.23E 2.4L,1.8L
IDC I 05 18 12 25.8–1.0 67.07N 21.27E 0 2.9,2.8
BER I 05 18 12 26.6–3.0 67.09N 20.88E 0 2.4L,1.6L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.7km s-min=2.8km az=6.6.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.8km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.5km s-min=4.0km az=99.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=8.6km az=113.0.
BER Event type sh. Error ellipse: s-maj=5.9km s-min=16.7km az=-1.0. Suspected explosion.

(460) Wyoming

ISC I 05 21 01 11.6–.74 43.61N–.03 105.33W–.03 0 55 1-20
ISCJB I 05 21 01 10.3–.37 43.63N–.03 105.36W–.03 0 ¶17189539
IDC I 05 21 01 11.8–2.0 43.57N 105.31W 0 3.5,3.3
NEIC I 05 21 01 12.0–.50 43.62N 105.26W 0 3.2L,3.3
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.7km s-min=3.5km az=8.7.
IDC Error ellipse: s-maj=49.8km s-min=8.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=6.5km s-min=5.9km az=211.0. 77 km [48 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC I 06 00 56 35.7–.78 50.19N–.04 18.63E–.02 0 49 0-3
ISCJB I 06 00 56 34.4–.43 50.21N–.04 18.57E–.03 0 ¶15916082
CSEM I 06 00 56 35.5–.30 50.25N 18.63E 2 2.7L
PRU I 06 00 56 36.3 50.23N 18.63E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.4km s-min=2.3km az=10.9.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=3.3km az=11.0.
PRU Event type ki.

(541) Belgium

LDG I 06 06 56 48.8–.07 50.55N 4.94E 1 2.3L,2.2
CSEM I 06 06 56 48.5–.41 50.50N 4.97E 1 2.2L,2.2 ¶15925539
UCC I 06 06 56 48.7 50.56N 4.93E 1 1.5L,2.2
LDG Event type sr. Error ellipse: s-maj=1.2km s-min=1.1km az=155.0. Suspected Mining induced.
CSEM Event type km. Error ellipse: s-maj=9.4km s-min=5.8km az=139.0. Mining explosion.
UCC Event type km. Mining explosion.

(723) Finland-Karelia border region

ISC I 06 10 00 02.3–.88 64.72N–.02 30.63E–.05 0 64 1-10
ISCJB I 06 09 59 58.7–.48 64.61N–.02 30.39E–.08 0 ¶15928040
IDC I 06 09 59 59.8–3.4 64.60N 32.03E 0 3.2,3.0
NAO I 06 10 00 00.4–.90 64.58N 31.48E 2.2L,3.0
CSEM I 06 10 00 00.8–.31 64.61N 30.56E 2 1.8L,3.0
HEL I 06 10 00 01.3–.10 64.73N 30.86E 0 1.8L,3.0
BER I 06 10 00 03.6–3.7 64.67N 30.63E 0 2.2L,3.0
KOLA I 06 10 00 03.6 64.74N 30.60E 0 2.2L,3.0
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.1km s-min=2.9km az=13.8.
IDC Error ellipse: s-maj=49.1km s-min=10.9km az=99.0.
CSEM Event type km. Error ellipse: s-maj=7.3km s-min=4.3km az=99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=1.6km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=9.4km s-min=44.2km az=-1.0. Suspected explosion.
KOLA Event type km.

(369) Dodecanese Islands

ISC I 06 10 32 43.1–1.2 36.89N–.05 28.00E–.02 0 24 0-1
ISCJB I 06 10 32 42.9–.79 36.91N–.05 28.00E–.03 0 ¶16357846
CSEM I 06 10 32 43.3–.31 36.92N 28.00E 1 2.7
ISK I 06 10 32 43.2 36.96N 27.97E 15 2.7
DDA I 06 10 32 44.2 37.08N 27.95E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.7km s-min=3.9km az=7.7.
CSEM Event type sm. Error ellipse: s-maj=7.5km s-min=4.0km az=12.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 06 12 36 11.9–.93 39.06N–.04 27.51E–.05 0 25 0-2
CSEM I 06 12 36 10.1–.76 39.01N 27.31E 1 2.7 ¶601608404
ISCJB I 06 12 36 12.2–.85 39.04N–.04 27.46E–.06 0 2.7
DDA I 06 12 36 12.7 39.09N 27.53E 7 2.7
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=19.3km s-min=10.1km az=47.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.3km s-min=5.1km az=143.9.
DDA Event type sm. Suspected Mining explosion.

(367) Turkey-Georgia-Armenia border region

DDA I 06 14 14 46.8 41.02N 41.78E 7 2.6
¶601608413
DDA Event type sm. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU I 06 23 04 02.9 49.82N 18.51E 0
CSEM I 06 23 04 00.0–1.2 49.83N 18.66E 1 1.7L ¶15916095
IPEC I 06 23 04 02.0–.18 49.83N 18.58E 0 0.9L
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=18.5km s-min=13.0km az=98.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.

(536) Sweden

ISC I 07 01 29 58.2–.79 67.14N–.03 20.77E–.04 0 65 1-32
ISCJB I 07 01 29 57.7–.53 67.17N–.02 20.6E–.10 0 3.7b ¶15928046
CSEM I 07 01 29 58.5–.33 67.16N 20.63E 2 2.4L
HEL I 07 01 29 58.8–.30 67.17N 20.56E 0 2.4L
NAO I 07 01 29 58.4–1.0 67.12N 21.08E 2.3L
IDC I 07 01 29 59.8–1.1 67.15N 20.91E 0 3.6b,3.3
BER I 07 01 30 01.3–4.3 67.17N 21.14E 0 2.4L,2.3L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.6km s-min=3.5km az=7.8.
CSEM Event type km. Error ellipse: s-maj=9.5km s-min=4.9km az=99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=8.0km az=109.0.
BER Event type sh. Error ellipse: s-maj=7.1km s-min=25.9km az=-1.0. Suspected explosion.

(548) Poland

ISC I 07 01 58 04.1–1.1 51.43N–.05 16.05E–.02 0 53 1-4
ISCJB I 07 01 58 01.8–.80 51.44N–.04 16.10E–.04 0 ¶15916097
CSEM I 07 01 58 03.3–.54 51.45N 16.07E 2 2.9L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=3.1km az=6.9.
CSEM Event type ki. Error ellipse: s-maj=8.6km s-min=4.6km az=167.0.

(548) Poland

ISC I 07 09 59 42.5–.80 50.16N–.03 19.04E–.02 0 40 0-4
ISCJB I 07 09 59 41.0–.54 50.22N–.04 18.98E–.03 0 ¶15916102
PRU I 07 09 59 42.8 50.22N 19.01E 0
CSEM I 07 09 59 42.1–.29 50.24N 19.03E 2 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=2.6km az=12.6.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=7.6km s-min=3.2km az=13.0.

(548) Poland

ISC I 07 12 45 57.9–1.8 51.51N–.08 16.05E–.06 0 32 1-3
CSEM I 07 12 45 56.6–.81 51.56N 16.06E 1 2.8L ¶15916104
PRU I 07 12 45 58.0 51.52N 16.09E 0 2.8L
ISC Event type ki.
CSEM Event type ki.
PRU Event type ki.

(547) Czech and Slovak Republics

ISC I 07 13 48 55.9–.84 49.80N–.04 18.54E–.02 0 38 0-3
ISCJB I 07 13 48 54.7–.49 49.85N–.04 18.47E–.03 0 ¶15916105
IPEC I 07 13 48 55.6–.18 49.81N 18.59E 0–3 1.7L
CSEM I 07 13 48 55.4–.21 49.84N 18.52E 1 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=2.7km az=4.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=2.7km az=3.0.

(460) Wyoming

ISC I 07 18 13 35.2–.91 43.99N–.07 105.39W–.05 0 17 1-15
ISCJB I 07 18 13 35.5–.71 43.97N–.07 105.27W–.08 0 ¶17189651
NEIC I 07 18 13 36.4–.70 43.96N 105.22W 0 2.7L
IDC I 07 18 13 36.5–1.2 44.32N 105.76W 0 3.5,3.2
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=10.2km s-min=8.4km az=162.3.
NEIC Event type fm. Error ellipse: s-maj=12.0km s-min=8.5km az=154.0. 45 km [25 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=27.9km s-min=9.7km az=148.0.

(548) Poland

ISC I 07 20 44 56.0–1.6 51.51N–.08 16.00E–.04 0 40 1-3
ISCJB I 07 20 44 54.1–1.1 51.52N–.05 16.05E–.05 0 ¶15916119
CSEM I 07 20 44 55.6–.55 51.50N 16.07E 2 3.0L
PRU I 07 20 44 56.2 51.50N 16.07E 0 3.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.3km s-min=4.3km az=21.7.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=5.0km az=3.0.
PRU Event type ki.

(548) Poland

ISC I 08 00 04 29.9–.86 50.12N–.04 19.14E–.02 0 38 0-4
ISCJB I 08 00 04 28.5–.57 50.14N–.04 19.08E–.03 0 ¶15916121
PRU I 08 00 04 30.1 50.16N 19.08E 0
IPEC I 08 00 04 30.0–.19 50.06N 19.19E 0–1 2.0L
CSEM I 08 00 04 30.1–.27 50.10N 19.14E 2 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=2.8km az=10.7.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=162.0.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.5km az=4.0.

(548) Poland

ISC I 08 05 50 40.9–.82 50.07N–.04 18.42E–.02 0 41 0-3
ISCJB I 08 05 50 39.3–.57 50.12N–.04 18.38E–.03 0 ¶15916129
IPEC I 08 05 50 40.9–.17 50.07N 18.45E 1–2 1.5L
CSEM I 08 05 50 40.9–.26 50.08N 18.41E 1 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.5km s-min=2.8km az=8.0.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=2.9km az=5.0.

(548) Poland

ISC I 08 10 07 15.2–.84 50.16N–.05 19.23E–.02 0 45 0-4
ISCJB I 08 10 07 14.2–.59 50.22N–.04 19.19E–.03 0 ¶15916131
PRU I 08 10 07 15.7 50.21N 19.20E 0
IPEC I 08 10 07 15.2–.20 50.23N 19.27E 0–1 1.9L
CSEM I 08 10 07 15.1–.35 50.21N 19.23E 2 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=2.8km az=10.6.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.9km s-min=1.1km az=169.0.
CSEM Event type ki. Error ellipse: s-maj=8.6km s-min=3.8km az=10.0.

(366) Turkey

ISC I 08 14 02 11.0–.96 40.12N–.03 29.44E–.02 0 30 0-2
ISCJB I 08 14 02 10.8–.57 40.11N–.04 29.44E–.04 0 ¶16357910
CSEM I 08 14 02 10.6–.28 40.12N 29.43E 1 2.3
ISK I 08 14 02 10.2 40.13N 29.43E 15 2.3
DDA I 08 14 02 10.4 40.16N 29.47E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.9km s-min=3.6km az=19.9.
CSEM Event type sm. Error ellipse: s-maj=6.0km s-min=5.5km az=29.0. Suspected Mining explosion.

DDA Event type sm. Suspected Mining explosion.
(460) Wyoming
ISC I 08 21 30 16.7–.92 43.75N–.04 105.22W–.06 0 26 1-90
ISCJB I 08 21 30 14.2–.91 43.74N–.04 105.05W–.09 0 3.8b ¶17189724
NEIC I 08 21 30 16.3–.91 43.72N 105.13W 0 2.7L
IDC I 08 21 30 18.3–1.0 44.09N 105.70W 0 3.8b,3.6
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=9.4km s-min=5.9km az=2.6.
NEIC Event type fm. Error ellipse: s-maj=14.0km s-min=7.4km az=117.0. 65 km [40 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=25.3km s-min=9.0km az=147.0.
(548) Poland
CSEM I 09 13 24 19.9–.31 50.25N 19.00E 2
PRU I 09 13 24 20.2 50.27N 19.00E 0 ¶15916157
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=3.9km az=14.0.
PRU Event type ki.
(536) Sweden
UPP I 10 00 29 13.8 67.84N 20.18E 0 0.8L
CSEM I 10 00 29 13.8 67.84N 20.18E 0 0.8L ¶601902456
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
(536) Sweden
ISC I 10 00 29 16.2–.82 67.86N–.02 20.31E–.03 0 50 0-7
NAO I 10 00 29 14.6–2.4 67.85N 20.35E 1.8L ¶15928067
ISCJB I 10 00 29 14.7–.57 67.81N–.02 20.4E–.10 0 1.8L
UPP I 10 00 29 15.8 67.83N 20.20E 0 1.0L
CSEM I 10 00 29 15.4–.31 67.83N 20.32E 2 1.0L
HEL I 10 00 29 16.2–.20 67.85N 20.32E 0 1.7L,1.0L
BER I 10 00 29 17.0–3.0 67.85N 20.20E 0 1.9L,1.8L
ISC Event type km.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
ISCJB Event type km. Error ellipse: s-maj=6.0km s-min=3.5km az=171.6.
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=7.4km s-min=5.7km az=93.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=2.0km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=5.8km s-min=20.6km az=-1.0. Suspected explosion.
(536) Sweden
UPP I 10 00 29 34.1–.40 67.83N 20.40E 0 1.5L
¶602597412
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.3km az=-1.0. Explosion.
(366) Turkey
ISC I 10 10 43 38.5–1.1 37.17N–.04 28.00E–.02 0 24 0-1
ISK I 10 10 43 37.6 37.21N 27.99E 14 2.4 ¶16357955
ISCJB I 10 10 43 38.3–.60 37.15N–.04 27.99E–.04 0 2.4
DDA I 10 10 43 38.1 37.26N 27.95E 7 2.5
CSEM I 10 10 43 38.2–.37 37.14N 27.99E 1 2.4
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.5km s-min=3.8km az=22.4.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9.3km s-min=5.9km az=18.0. Suspected Mining explosion.
(547) Czech and Slovak Republics
ISC I 10 23 47 29.3–.72 49.82N–.03 18.50E–.02 0 99 0-4
ISCJB I 10 23 47 27.8–.37 49.85N–.03 18.42E–.02 0 ¶15925765
IPEC I 10 23 47 29.2–.18 49.82N 18.59E 0 2.4L
CSEM I 10 23 47 29.0–.19 49.83N 18.48E 2 3.2L
VIE I 10 23 47 30.1–.49 49.64N 18.47E 0 2.7L,2.4b
PRU I 10 23 47 30.4 49.83N 18.46E 0 2.7L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=2.2km az=12.7.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.1km s-min=2.7km az=10.0.
VIE Event type sr. Error ellipse: s-maj=3.3km s-min=2.0km az=87.0. Suspected Mining induced.
PRU Event type ki.
(536) Sweden
UPP I 11 00 26 53.1 67.83N 20.20E 0 2.5L
CSEM I 11 00 26 52.6–.25 67.83N 20.27E 2 2.5L ¶601990503
HEL I 11 00 26 52.8 67.77N 20.05E 0 1.4L
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=5.6km s-min=4.4km az=155.0. Mining explosion.
HEL Event type kh. Explosion.
(536) Sweden
UPP I 11 00 26 57.3 67.84N 20.20E 0 1.4L
CSEM I 11 00 26 56.9–.33 67.85N 20.25E 1 1.4L ¶601685697
UPP Event type km. Mining explosion.
CSEM Event type km. Mining explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC I 11 03 39 24.6–1.6 67.68N–.04 34.13E–.09 0 64 0-12
CSEM I 11 03 39 27.6–.79 67.68N 33.78E 1 2.7L ¶15928069
KOLA I 11 03 39 27.6 67.64N 33.89E 0 2.7L
ISCJB I 11 03 39 27.5–1.1 67.75N–.03 33.6E–.20 0 2.7L
HEL I 11 03 39 27.8–.50 67.72N 33.87E 0 2.3L
NAO I 11 03 39 27.7–1.2 67.69N 33.77E 2.7L
IDC I 11 03 39 28.4–1.9 67.73N 33.75E 0 3.6,3.6
ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=16.0km s-min=8.0km az=85.0. Mining explosion.
KOLA Event type km.
ISCJB Event type km. Error ellipse: s-maj=9.0km s-min=4.4km az=175.2.
HEL Event type kh. Error ellipse: s-maj=2.0km s-min=3.3km az=-1.0. Explosion.
IDC Error ellipse: s-maj=21.8km s-min=10.2km az=80.0.
(366) Turkey
DDA I 11 10 53 09.2 40.70N 41.26E 7 2.7
CSEM I 11 10 53 09.1 40.70N 41.26E 7 2.7 ¶601608593
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
(536) Sweden
HEL I 11 11 27 20.8–1.1 67.72N 20.00E 0 1.1L
CSEM I 11 11 27 19.5–.59 67.60N 20.08E 1 1.1L ¶600672988
HEL Event type kh. Error ellipse: s-maj=5.2km s-min=22.4km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=13.6km s-min=12.5km az=53.0. Mining explosion.
(366) Turkey
ISC I 11 13 57 59.6–.85 39.89N–.03 29.97E–.03 0 38 0-2
ISK I 11 13 57 58.2 39.88N 29.98E 5 2.6 ¶16357991
ISCJB I 11 13 57 59.5–.53 39.88N–.03 29.95E–.04 0 2.6
CSEM I 11 13 57 59.5–.21 39.88N 29.96E 1 2.6
DDA I 11 13 57 59.5 39.86N 29.97E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.4km s-min=4.3km az=169.5.
CSEM Event type sm. Error ellipse: s-maj=4.3km s-min=3.6km az=62.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(536) Sweden
ISC I 11 18 06 20.5–.73 67.07N–.02 20.99E–.02 0 82 0-7
ISCJB I 11 18 06 20.1–.35 67.08N–.02 21.09E–.06 0 ¶17189932
UPP I 11 18 06 20.9–.10 67.06N 20.96E 0 1.8L
HEL I 11 18 06 21.6–.10 67.06N 20.96E 0 2.2L,1.8L
IDC I 11 18 06 21.5–.99 67.07N 21.12E 0 3.0,2.9
CSEM I 11 18 06 21.0–.22 67.09N 21.03E 2 1.8L,2.9
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.5km s-min=3.0km az=0.9.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0. Explosion.
IDC Error ellipse: s-maj=18.0km s-min=8.7km az=114.0.
CSEM Event type km. Error ellipse: s-maj=5.5km s-min=4.2km az=82.0. Mining explosion.
(548) Poland
ISC I 11 22 44 30.7–.70 50.25N–.02 18.85E–.01 0 176 0-6
CSEM I 11 22 44 30.7–.25 50.37N 18.79E 2 3.5L ¶15925880
IPEC I 11 22 44 30.7–.25 50.36N 18.91E 2–2 2.6L
SIGU I 11 22 44 31.9–.20 50.13N–.02 18.85E–.01 5–0 3.0b
ISCJB I 11 22 44 31.4–.31 50.28N–.03 18.63E–.02 0 3.0b
BGR I 11 22 44 32.2–.98 50.20N 18.81E 1 3.5L
VIE I 11 22 44 33.4–.65 49.70N 19.00E 1–3 2.9L,2.6b
ISC Event type sr.
CSEM Event type ki. Error ellipse: s-maj=6.5km s-min=2.9km az=11.0.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=1.1km az=170.0.
ISCJB Event type sr. Error ellipse: s-maj=4.3km s-min=1.6km az=13.9.
BGR Event type ki. Error ellipse: s-maj=14.5km s-min=11.1km az=8.0.
VIE Event type sr. Error ellipse: s-maj=3.7km s-min=3.4km az=72.0. Suspected Mining induced.
(547) Czech and Slovak Republics
PRU I 12 00 16 49.2 49.78N 18.60E 0
¶15925884
PRU Event type ki.
(366) Turkey
ISC I 12 08 16 19.1–.77 38.39N–.02 37.63E–.02 0 56 0-2
CSEM I 12 08 16 18.9–.31 38.35N 37.68E 1 2.8 ¶16358015
ISK I 12 08 16 18.6 38.34N 37.64E 11 2.9
ISCJB I 12 08 16 19.4–.37 38.42N–.02 37.66E–.03 0 2.9
DDA I 12 08 16 19.6 38.40N 37.67E 7 2.8
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=7.9km s-min=5.9km az=13.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.3km s-min=3.1km az=43.5.
DDA Event type sm. Suspected Mining explosion.
(374) Jordan-Syria region
DDA I 12 10 31 15.6 36.34N 37.45E 20 2.8
CSEM I 12 10 31 15.6 36.34N 37.45E 20 2.8 ¶601608642
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
(329) Eastern Kazakhstan
ISC I 12 10 37 37.1–.91 51.78N–.06 75.51E–.04 0 22 2-9
IDC I 12 10 37 37.6–.76 51.63N 75.36E 0 2.7,2.7 ¶16395600
NNC I 12 10 37 40.8–1.6 51.97N 75.89E 0 3.4b,3.0
ISC Event type sm.
IDC Error ellipse: s-maj=24.3km s-min=6.1km az=28.0.
NNC Event type sm. Error ellipse: s-maj=34.4km s-min=7.9km az=26.0. Suspected Mining explosion.
(366) Turkey
ISC I 12 12 37 41.2–.80 39.65N–.02 31.90E–.03 0 37 0-2
ISCJB I 12 12 37 40.8–.51 39.65N–.03 31.94E–.04 0 ¶16358025
CSEM I 12 12 37 40.9–.27 39.66N 31.94E 1 2.7
DDA I 12 12 37 40.7 39.66N 31.91E 7 2.9
ISK I 12 12 37 41.2 39.62N 31.92E 15 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.9km az=148.4.
CSEM Event type sm. Error ellipse: s-maj=6.2km s-min=5.1km az=51.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(374) Jordan-Syria region
DDA I 12 13 21 59.4 37.00N 37.47E 7 2.9
NSSC I 12 13 21 56.6–4.2 35.51N 38.11E 229–36 1.9L ¶601685730
CSEM I 12 13 21 59.4 37.00N 37.47E 7 2.9
DDA Event type sm. Suspected Mining explosion.
NSSC Error ellipse: s-maj=48.4km s-min=48.7km az=-1.0.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
(366) Turkey
ISC I 12 13 36 44.8–.80 41.40N–.03 35.85E–.02 0 56 0-3
DDA I 12 13 36 44.2 41.42N 35.87E 8 2.7 ¶16358027
ISCJB I 12 13 36 45.3–.47 41.40N–.03 35.86E–.03 0 2.7
CSEM I 12 13 36 45.4–.23 41.37N 35.84E 1 2.7
ISK I 12 13 36 45.2 41.36N 35.80E 6 2.9
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.6km s-min=3.0km az=18.5.
CSEM Event type sm. Error ellipse: s-maj=5.4km s-min=3.9km az=18.0. Suspected Mining explosion.
(366) Turkey
ISC I 12 13 46 45.0–.84 40.99N–.03 36.04E–.03 0 30 0-2
ISK I 12 13 46 40.3 41.32N 36.16E 7 2.6 ¶16358028
ISCJB I 12 13 46 44.9–.52 41.00N–.03 36.09E–.04 0 2.6
CSEM I 12 13 46 44.8–.27 40.99N 36.07E 2 2.6
DDA I 12 13 46 44.6 40.99N 36.06E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.5km s-min=3.9km az=36.7.
CSEM Event type sm. Error ellipse: s-maj=7.3km s-min=5.5km az=43.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(366) Turkey
ISC I 12 14 07 09.4–.85 39.71N–.03 32.61E–.03 0 25 0-2
ISK I 12 14 07 08.7 39.75N 32.58E 10 2.3 ¶16358029
ISCJB I 12 14 07 09.5–.65 39.71N–.04 32.59E–.05 0 2.3
CSEM I 12 14 07 09.5–.39 39.70N 32.63E 1 2.3
DDA I 12 14 07 12.1 39.74N 32.66E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=4.9km az=32.2.
CSEM Event type sm. Error ellipse: s-maj=9.7km s-min=7.5km az=143.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
ISC I 12 15 34 15.0–.78 50.07N–.03 18.40E–.02 0 58 0-4
ISCJB I 12 15 34 13.4–.46 50.06N–.03 18.34E–.03 0 ¶15925901
IPEC I 12 15 34 13.9–.16 50.04N 18.48E 0 2.1L
CSEM I 12 15 34 14.4–.28 50.06N 18.35E 2 3.0L
PRU I 12 15 34 15.7 50.05N 18.33E 0 3.0L
VIE I 12 15 34 16.4–.64 49.72N 18.36E 0 2.7L,1.9b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.8km s-min=2.6km az=13.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=3.6km az=12.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=4.4km s-min=2.6km az=115.0. Suspected Mining induced.
(460) Wyoming
ISC I 12 20 17 05.4–.86 43.40N–.05 105.02W–.06 0 24 1-62
IDC I 12 20 16 59.6–1.2 42.41N 104.56W 0 4.2L,3.7 ¶17190016
ISCJB I 12 20 17 06.0–.57 43.58N–.04 105.18W–.07 0 4.4b,3.6s
NEIC I 12 20 17 07.2–.58 43.58N 105.16W 0 3.2L,3.6s
ISC Event type sm.
IDC Error ellipse: s-maj=19.6km s-min=12.8km az=163.0.
ISCJB Event type fm. Error ellipse: s-maj=7.5km s-min=6.3km az=14.2.
NEIC Event type fm. Error ellipse: s-maj=8.1km s-min=6.7km az=119.0. 80 km [50 miles] WSW of Newcastle. Suspected Mining explosion.
(460) Wyoming
ISC I 12 20 30 32.5–.83 43.46N–.04 105.25W–.05 0 32 1-21
IDC I 12 20 30 30.1–1.9 43.14N 105.25W 0 3.5,3.3 ¶17190018
ISCJB I 12 20 30 31.9–.53 43.57N–.04 105.24W–.06 0 3.4b,3.3
NEIC I 12 20 30 33.3–.38 43.56N 105.21W 0 3.1L,3.3
ISC Event type sm.
IDC Error ellipse: s-maj=34.9km s-min=8.5km az=154.0.
ISCJB Event type fm. Error ellipse: s-maj=6.5km s-min=6.2km az=38.4.
NEIC Event type fm. Error ellipse: s-maj=5.1km s-min=5.1km az=219.0. 85 km [50 miles] SSE of Gillette. Suspected Mining explosion.
(547) Czech and Slovak Republics
PRU I 12 21 13 07.5 49.75N 18.57E 0
¶15925915
PRU Event type ki.
(548) Poland
ISC I 13 00 26 13.8–.77 50.04N–.04 18.58E–.02 0 60 0-4
ISCJB I 13 00 26 13.0–.42 50.05N–.04 18.47E–.03 0 ¶15931420
CSEM I 13 00 26 13.9–.32 50.04N 18.50E 2 2.8L
IPEC I 13 00 26 14.4–.17 50.01N 18.58E 3–2 2.1L

VIE I 13 00 26 14.3–.66 49.71N 18.65E 0 2.6L,2.1b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.1km s-min=2.5km az=173.5.
CSEM Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
VIE Event type sr. Error ellipse: s-maj=3.8km s-min=2.8km az=95.0. Suspected Mining induced.

(548) Poland

CSEM I 13 06 18 42.1–.31 50.15N 18.37E 2 2.1L
IPEC I 13 06 18 41.9–.17 50.10N 18.47E 0–2 1.3L **¶15931428**
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.5km az=2.0.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.

(723) Finland-Karelia border region

ISC I 13 10 00 28.8–.97 64.66N–.02 30.51E–.06 0 39 1-10
IDC I 13 10 00 25.8–3.4 64.53N 31.85E 0 3.1,3.1 **¶17190047**
ISCJB I 13 10 00 26.0–.71 64.66N–.03 30.5E–.10 0 3.1,3.1
CSEM I 13 10 00 29.0 64.69N 30.64E 0 1.9L,3.1
HEL I 13 10 00 29.0–.10 64.69N 30.64E 0 1.9L,3.1
KOLA I 13 10 00 30.5 64.68N 30.82E 0 1.9L,3.1
ISC Event type km.
IDC Error ellipse: s-maj=47.3km s-min=11.1km az=101.0.
ISCJB Event type km. Error ellipse: s-maj=7.1km s-min=4.3km az=7.1.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.7km s-min=2.7km az=-1.0. Explosion.
KOLA Event type km.

(366) Turkey

ISC I 13 10 11 47.3–.91 41.38N–.04 35.13E–.04 0 28 0-2
ISCJB I 13 10 11 47.6–.77 41.38N–.04 35.11E–.06 0 **¶16358037**
ISK I 13 10 11 47.1 41.39N 35.12E 8 2.7
CSEM I 13 10 11 48.0–.33 41.37N 35.07E 1 2.8
DDA I 13 10 11 49.0 41.31N 34.95E 6 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.7km s-min=4.8km az=138.4.
CSEM Event type sm. Error ellipse: s-maj=8.3km s-min=5.7km az=52.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 13 14 12 14.0–1.0 40.38N–.03 35.74E–.05 0 22 1-2
ISK I 13 14 12 11.2 40.34N 35.88E 10 2.8L **¶16358047**
CSEM I 13 14 12 15.8–.82 40.19N 35.62E 1 2.6
DDA I 13 14 12 21.0 40.47N 35.67E 7 2.6
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=23.1km s-min=14.0km az=113.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 13 14 18 53.2–.88 38.66N–.02 30.78E–.02 0 59 0-2
ISCJB I 13 14 18 52.8–.36 38.66N–.02 30.78E–.03 0 **¶16358048**
CSEM I 13 14 18 52.9–.15 38.65N 30.80E 1 2.8
DDA I 13 14 18 52.7 38.67N 30.77E 15 2.8
ISK I 13 14 18 52.5 38.66N 30.80E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.8km s-min=3.0km az=37.7.
CSEM Event type sm. Error ellipse: s-maj=3.7km s-min=3.0km az=137.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 13 14 27 17.2–.78 37.51N–.02 38.69E–.02 0 44 0-2
ISK I 13 14 27 15.7 37.42N 38.59E 10 2.6 **¶16358049**
ISCJB I 13 14 27 17.2–.42 37.52N–.02 38.70E–.03 0 2.6
CSEM I 13 14 27 17.3–.27 37.52N 38.75E 1 2.6
DDA I 13 14 27 17.3 37.51N 38.70E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.6km s-min=3.4km az=152.0.
CSEM Event type sm. Error ellipse: s-maj=6.6km s-min=5.3km az=82.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC I 13 20 37 13.7–.76 49.86N–.03 18.47E–.02 0 50 0-3
ISCJB I 13 20 37 12.4–.44 49.86N–.03 18.41E–.03 0 **¶15931441**
CSEM I 13 20 37 13.4–.24 49.87N 18.44E 2 2.5L
IPEC I 13 20 37 13.4–.18 49.83N 18.55E 0 1.6L
PRU I 13 20 37 14.8 49.85N 18.44E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.6km az=8.8.
CSEM Event type ki. Error ellipse: s-maj=6.1km s-min=3.3km az=8.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
PRU Event type ki.

(548) Poland

ISC I 13 23 53 09.9–1.1 51.56N–.04 16.14E–.04 0 49 1-4
ISCJB I 13 23 53 10.1–.85 51.47N–.04 16.03E–.05 0 **¶15931450**
CSEM I 13 23 53 12.0–.51 51.43N 16.04E 2 3.2L
PRU I 13 23 53 12.3 51.44N 16.09E 0 3.2L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.6km s-min=4.2km az=40.6.
CSEM Event type ki. Error ellipse: s-maj=7.9km s-min=5.4km az=28.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC I 14 10 26 26.6–.90 59.33N–.02 27.09E–.05 0 47 1-9
ISCJB I 14 10 26 25.6–.65 59.30N–.03 27.24E–.09 0 **¶17190154**
HEL I 14 10 26 26.3–.20 59.32N 27.29E 0 1.7L
CSEM I 14 10 26 27.0–.54 59.33N 27.26E 2 1.7L
IDC I 14 10 26 29.2–1.3 59.43N 27.22E 0 2.9,2.9
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.8km s-min=3.4km az=13.3.
HEL Event type kh. Error ellipse: s-maj=1.0km s-min=4.5km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=14.5km s-min=6.8km az=105.0. Mining explosion.
IDC Error ellipse: s-maj=13.0km s-min=9.0km az=93.0.

(366) Turkey

DDA I 14 12 20 15.8 39.85N 32.40E 10 2.6
CSEM I 14 12 20 15.9 39.85N 32.40E 10 2.6 **¶601608712**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

DDA I 14 12 20 40.4 40.38N 36.37E 7 2.7
CSEM I 14 12 20 40.4 40.38N 36.37E 7 2.7 **¶601608713**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

DDA I 14 13 39 01.0 37.54N 42.43E 6 2.9
CSEM I 14 13 39 01.0 37.54N 42.43E 6 2.9 **¶601608717**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

ISC I 14 14 01 16.2–.81 37.29N–.03 37.24E–.03 0 37 0-2
ISK I 14 14 01 15.8 37.28N 37.22E 8 2.8 **¶16358071**
ISCJB I 14 14 01 16.4–.50 37.25N–.03 37.19E–.03 0 2.8
CSEM I 14 14 01 16.5–.41 37.34N 37.25E 1 2.7
DDA I 14 14 01 17.1 37.29N 37.18E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.2km s-min=3.7km az=20.4.
CSEM Event type sm. Error ellipse: s-maj=10.2km s-min=8.9km az=23.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

DDA I 14 14 02 17.4 41.01N 36.02E 7 2.4
CSEM I 14 14 02 17.5 41.01N 36.02E 7 2.4 **¶601608718**
DDA Event type sm. Suspected Mining explosion.

CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(367) Turkey-Georgia-Armenia border region

ISC I 14 15 57 28.3–1.2 41.23N–.06 42.40E–.05 0 25 0-2
TIF I 14 15 57 27.4 41.26N 42.37E 9–3 **¶600243287**
ISCJB I 14 15 57 28.4–.89 41.22N–.07 42.38E–.07 0
CSEM I 14 15 57 28.1–.33 41.21N 42.39E 2 2.6
DDA I 14 15 57 28.4 41.26N 42.35E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=11.8km s-min=3.4km az=146.0.
CSEM Event type sm. Error ellipse: s-maj=11.3km s-min=3.4km az=146.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

PRU I 14 20 32 26.2 50.06N 18.40E 0
IPEC I 14 20 32 25.1–.17 50.07N 18.50E 3–2 1.8L **¶15931485**
CSEM I 14 20 32 25.0–.31 50.09N 18.39E 1 2.6L
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=7.2km s-min=4.0km az=1.0.

(536) Sweden

ISC I 15 00 25 34.0–.90 67.84N–.03 20.19E–.03 0 63 0-8
ISCJB I 15 00 25 33.0–.51 67.82N–.03 20.2E–.10 0 **¶17190222**
CSEM I 15 00 25 33.9–.34 67.85N 20.23E 2 2.1L
IDC I 15 00 25 33.7–1.2 67.84N 20.58E 0 3.0,2.9
UPP I 15 00 25 33.6–.10 67.85N 20.20E 0 2.1L,2.9
HEL I 15 00 25 34.2–.10 67.84N 20.24E 0 2.1L,2.0L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.2km s-min=4.3km az=18.6.
CSEM Event type km. Error ellipse: s-maj=8.2km s-min=6.5km az=124.0. Mining explosion.
IDC Error ellipse: s-maj=22.4km s-min=7.5km az=123.0.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=1.2km az=-1.0. Explosion.

(548) Poland

ISC I 15 05 23 28.5–.95 51.60N–.04 16.15E–.03 0 47 1-4
ISCJB I 15 05 23 28.5–.77 51.52N–.03 16.09E–.05 0 **¶15931501**
CSEM I 15 05 23 28.7–.47 51.59N 16.08E 2 3.0L
PRU I 15 05 23 30.7 51.51N 16.12E 0 3.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=3.8km az=27.0.
CSEM Event type ki.
PRU Event type ki.

(329) Eastern Kazakhstan

ISC I 15 09 25 55.1–1.0 50.05N–.08 76.10E–.05 0 19 2-7
ISCJB I 15 09 25 53.3–.79 50.16N–.07 76.16E–.06 0 **¶16395906**
NNC I 15 09 25 54.1–.41 50.11N 76.15E 0 3.1b,2.8
IDC I 15 09 25 55.8–1.4 50.12N 76.26E 0 2.8,2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=11.1km s-min=4.3km az=16.8.
NNC Event type sm. Error ellipse: s-maj=5.1km s-min=2.1km az=6.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=18.1km s-min=11.1km az=18.0.

(548) Poland

ISC I 15 10 07 37.5–1.8 51.55N–.08 15.97E–.06 0 31 1-3
ISCJB I 15 10 07 36.3–1.3 51.54N–.05 15.94E–.07 0 **¶15931507**
CSEM I 15 10 07 36.7–.98 51.57N 15.99E 2 2.9L
PRU I 15 10 07 37.5 51.56N 16.02E 0 2.9L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=8.6km s-min=4.7km az=33.8.
CSEM Event type ki. Error ellipse: s-maj=15.0km s-min=8.3km az=16.0.
PRU Event type ki.

(547) Czech and Slovak Republics

ISC I 15 15 48 28.8–1.0 49.78N–.06 18.52E–.03 0 34 0-3
ISCJB I 15 15 48 28.1–.74 49.86N–.05 18.46E–.04 0 **¶15931513**
CSEM I 15 15 48 28.3–.52 49.78N 18.50E 1 2.5L
IPEC I 15 15 48 29.0–.18 49.80N 18.57E 0 1.6L
PRU I 15 15 48 29.7 49.85N 18.48E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.2km s-min=3.8km az=167.4.
CSEM Event type ki. Error ellipse: s-maj=11.8km s-min=6.3km az=164.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
PRU Event type ki.

(548) Poland

ISC I 16 17 15 55.6–.80 51.53N–.03 16.05E–.02 0 78 1-5
ISCJB I 16 17 15 54.5–.50 51.49N–.03 16.11E–.03 0 **¶15931541**
CSEM I 16 17 15 55.7–.25 51.52N 16.02E 2 3.4L
VIE I 16 17 15 58.0–.43 51.31N 16.02E 0 2.8L,2.6b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=2.8km az=5.5.
CSEM Event type ki. Error ellipse: s-maj=4.3km s-min=4.2km az=159.0.
VIE Event type sr. Error ellipse: s-maj=3.1km s-min=2.4km az=7.0. Suspected Mining induced.

(548) Poland

ISC I 16 22 08 35.1–.81 50.11N–.03 19.13E–.02 0 55 0-4
ISCJB I 16 22 08 33.8–.46 50.14N–.03 19.08E–.03 0 **¶15931548**
IPEC I 16 22 08 34.7–.20 50.18N 19.16E 0–1 1.6L
CSEM I 16 22 08 34.7–.26 50.16N 19.14E 2 2.7L
PRU I 16 22 08 35.5 50.15N 19.12E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.3km az=11.0.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=167.0.
CSEM Event type ki. Error ellipse: s-maj=6.5km s-min=2.8km az=9.0.
PRU Event type ki.

(536) Sweden

CSEM I 17 00 28 49.3–.51 67.88N 21.13E 1 1.4L
UPP I 17 00 28 46.4 67.86N 20.20E 0 1.3L **¶601685891**
CSEM Event type km. Error ellipse: s-maj=15.1km s-min=11.0km az=14.0. Mining explosion.
UPP Event type km. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC I 17 10 55 50.3–.82 59.32N–.02 27.11E–.04 0 40 1-10
ISCJB I 17 10 55 49.3–.63 59.29N–.02 27.27E–.10 0 **¶17190398**
CSEM I 17 10 55 50.7–.41 59.32N 27.23E 1 1.8L
HEL I 17 10 55 51.2–.20 59.32N 27.13E 0 1.8L
IDC I 17 10 55 53.0–1.5 59.41N 26.95E 0 3.4,3.2
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=7.1km s-min=3.5km az=8.5.
CSEM Event type km. Error ellipse: s-maj=11.2km s-min=5.4km az=104.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=5.1km az=-1.0. Explosion.
IDC Error ellipse: s-maj=35.8km s-min=9.9km az=80.0.

(366) Turkey

ISC I 17 10 58 58.2–.77 40.31N–.02 33.42E–.02 0 49 0-3
ISCJB I 17 10 58 58.4–.38 40.31N–.02 33.44E–.03 0 **¶16358145**
CSEM I 17 10 58 58.6–.18 40.32N 33.41E 2 2.7
DDA I 17 10 58 58.0 40.30N 33.45E 7 2.7
ISK I 17 10 58 58.5 40.36N 33.35E 8 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.1km az=26.9.
CSEM Event type sm. Error ellipse: s-maj=4.5km s-min=3.7km az=128.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC I 17 11 07 39.0–1.6 51.51N–.07 16.10E–.04 0 30 1-3
ISCJB I 17 11 07 38.0–1.3 51.49N–.05 16.08E–.06 0 **¶15942360**
CSEM I 17 11 07 38.8–.65 51.52N 16.11E 1 2.7L
PRU I 17 11 07 39.4 51.51N 16.11E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=8.1km s-min=4.1km az=23.8.
CSEM Event type ki.
PRU Event type ki.

(547) Czech and Slovak Republics

ISC I 17 12 06 39.3–.84 49.80N–.04 18.49E–.02 0 40 0-3
ISCJB I 17 12 06 38.6–.51 49.82N–.04 18.46E–.03 0 **¶15942362**
IPEC I 17 12 06 39.2–.18 49.82N 18.58E 0 1.9L

CSEM I 17 12 06 39.3–.28 49.82N 18.48E 1 2.9L
PRU I 17 12 06 40.4 49.84N 18.46E 0 2.9L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=3.0km az=7.7.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=8.3km s-min=3.9km az=4.0.
PRU Event type ki.

(548) Poland

ISC I 17 19 32 17.7–1.1 51.50N–.05 16.12E–.03 0 61 1-4
ISCJB I 17 19 32 16.3–.72 51.46N–.04 16.16E–.04 0 **¶15942401**
CSEM I 17 19 32 17.4–.44 51.48N 16.16E 2 3.3L
PRU I 17 19 32 18.9 51.45N 16.15E 0 3.3L
VIE I 17 19 32 21.5–.33 51.20N 16.28E 0 2.7L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.2km s-min=3.3km az=8.1.
CSEM Event type sr. Error ellipse: s-maj=7.5km s-min=4.1km az=169.0. Suspected Mining induced.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=2.6km s-min=2.1km az=51.0. Suspected Mining induced.

(548) Poland

ISC I 17 20 55 08.4–.79 50.13N–.03 19.29E–.02 0 57 0-5
ISCJB I 17 20 55 06.3–.51 50.21N–.04 19.18E–.03 0 **¶15942415**
IPEC I 17 20 55 07.4–.20 50.24N 19.26E 0–1 2.2L
CSEM I 17 20 55 07.8–.27 50.18N 19.23E 1 2.9L
PRU I 17 20 55 08.2 50.20N 19.21E 0 2.9L
VIE I 17 20 55 11.7–.56 49.61N 19.05E 0 2.4L,2.3b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.6km s-min=2.4km az=12.6.
IPEC Event type ki. Error ellipse: s-maj=2.9km s-min=1.1km az=169.0.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=2.8km az=10.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=3.2km s-min=2.6km az=101.0. Suspected Mining induced.

(548) Poland

ISC I 18 01 15 50.6–2.4 51.44N–.10 16.13E–.05 0 30 1-3
CSEM I 18 01 15 49.9–.71 51.45N 16.16E 1 2.5L **¶15942451**
ISCJB I 18 01 15 50.3–1.7 51.40N–.06 16.07E–.07 0 2.5L
PRU I 18 01 15 50.6 51.43N 16.19E 0 2.5L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9.8km s-min=5.8km az=10.0.
ISCJB Event type ki. Error ellipse: s-maj=9.7km s-min=4.9km az=26.7.
PRU Event type ki.

(548) Poland

ISC I 18 09 43 12.8–1.6 51.48N–.07 16.10E–.04 0 35 1-3
ISCJB I 18 09 43 12.1–1.2 51.47N–.05 16.06E–.06 0 **¶15942512**
CSEM I 18 09 43 13.1–.54 51.48N 16.11E 1 2.9L
PRU I 18 09 43 13.6 51.46N 16.13E 0 2.9L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.5km s-min=4.5km az=26.2.
CSEM Event type ki. Error ellipse: s-maj=8.2km s-min=4.8km az=171.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC I 18 10 17 37.4–.89 59.32N–.02 27.03E–.05 0 60 1-10
ISCJB I 18 10 17 36.7–.61 59.29N–.02 27.00E–.08 0 **¶15963016**
NAO I 18 10 17 37.5–1.0 59.29N 26.76E 2.2L
CSEM I 18 10 17 37.5–.35 59.30N 27.08E 1 2.2L
BER I 18 10 17 38.5–2.9 59.31N 27.01E 0 2.2L
HEL I 18 10 17 38.1–.20 59.29N 27.11E 0 1.9L
IDC I 18 10 17 40.7–2.6 59.50N 27.03E 0 3.1,3.1
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.0km s-min=3.4km az=13.2.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type km. Error ellipse: s-maj=8.7km s-min=4.9km az=107.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=5.2km s-min=23.4km az=-1.0. Suspected explosion.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=1.3km az=-1.0. Explosion.
IDC Error ellipse: s-maj=25.2km s-min=11.4km az=146.0.

(536) Sweden

UPP I 18 12 33 16.9 56.54N 13.19E 0 1.3L
CSEM I 18 12 33 16.7–.17 56.54N 13.19E 2 1.3L **¶15938514**
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=4.6km s-min=3.3km az=73.0. Mining explosion.

(366) Turkey

ISC I 18 14 22 52.1–.95 37.28N–.03 31.95E–.03 0 29 1-2
ISK I 18 14 22 51.3 37.30N 31.94E 5 2.8 **¶16358179**
DDA I 18 14 22 51.7 37.26N 31.90E 7 2.9
ISCJB I 18 14 22 52.3–.59 37.27N–.03 31.92E–.05 0 2.9
CSEM I 18 14 22 52.3–.29 37.26N 31.95E 2 2.8
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=4.1km az=166.7.
CSEM Event type sm. Error ellipse: s-maj=7.2km s-min=5.0km az=78.0. Suspected Mining explosion.

(543) Germany

ISC I 18 19 39 38.7–.79 51.47N–.02 6.52E–.02 0 137 0-6
ISCJB I 18 19 39 38.4–.41 51.42N–.02 6.47E–.04 0 **¶15994898**
BUG I 18 19 39 39.5 51.44N 6.58E 1 2.0L
CSEM I 18 19 39 39.4–.30 51.49N 6.50E 1 2.6L
BNS I 18 19 39 40.3–1.2 51.51N 6.58E 1 1.9L
LDG I 18 19 39 40.5–.10 51.50N 6.58E 1 2.5L
BGR I 18 19 39 40.6–.74 51.46N 6.59E 1 2.1L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=4.2km s-min=2.6km az=42.6.
BUG Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=4.4km az=141.0.
BNS Event type ki.
LDG Event type sr. Error ellipse: s-maj=1.9km s-min=1.3km az=146.0. Suspected Mining induced.
BGR Event type ki. Error ellipse: s-maj=11.1km s-min=6.7km az=120.0.

(536) Sweden

UPP I 19 09 44 58.0–.10 67.17N 20.68E 0 2.1L
CSEM I 19 09 44 57.8–.16 67.18N 20.68E 0–1 2.1L **¶600673336**
HEL I 19 09 44 58.6–.10 67.16N 20.67E 0 2.1L,1.5L
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Suspected explosion.
CSEM Event type km. Error ellipse: s-maj=4.6km s-min=3.3km az=88.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.7km az=-1.0. Explosion.

(366) Turkey

ISC I 19 10 43 33.3–1.0 37.17N–.04 27.88E–.03 0 20 0-1
ISK I 19 10 43 32.1 37.16N 27.91E 5 2.1 **¶16358213**
ISCJB I 19 10 43 33.6–.76 37.14N–.05 27.90E–.04 0 2.1
CSEM I 19 10 43 33.4–.43 37.14N 27.90E 1 2.1
DDA I 19 10 43 35.9 37.30N 27.56E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.5km s-min=4.4km az=164.5.
CSEM Event type sm. Error ellipse: s-maj=9.7km s-min=6.4km az=162.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 19 11 25 50.5–1.2 37.20N–.07 38.33E–.04 0 23 0-2
ISK I 19 11 25 49.4 37.15N 38.38E 2 2.7 **¶16358216**
CSEM I 19 11 25 49.6–.37 37.13N 38.35E 2 2.8
ISCJB I 19 11 25 50.1–1.1 37.16N–.07 38.38E–.05 0 2.8
DDA I 19 11 25 50.8 37.19N 38.35E 7 2.8
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=8.7km s-min=4.8km az=22.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=10.1km s-min=5.2km az=162.6.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 19 12 14 28.2–.99 38.51N–.03 28.79E–.02 0 31 0-1
ISCJB I 19 12 14 27.6–.46 38.53N–.03 28.81E–.03 0 **¶16358217**
CSEM I 19 12 14 27.7–.28 38.53N 28.83E 1 2.5
DDA I 19 12 14 27.7 38.50N 28.79E 7 2.8
ISK I 19 12 14 27.1 38.50N 28.79E 5 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.7km az=25.5.
CSEM Event type sm. Error ellipse: s-maj=6.7km s-min=5.3km az=172.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 19 16 20 08.6–.87 37.17N–.04 27.94E–.03 0 28 0-1
ISK I 19 16 20 07.9 37.20N 27.88E 14 2.5 **¶16358226**
ISCJB I 19 16 20 08.2–.57 37.11N–.04 27.93E–.03 0 2.5
CSEM I 19 16 20 08.3–.40 37.10N 27.92E 1 2.5
DDA I 19 16 20 09.8 37.13N 27.84E 7 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.7km s-min=3.7km az=13.7.
CSEM Event type sm. Error ellipse: s-maj=9.8km s-min=6.4km az=15.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC I 19 18 13 25.5–2.1 51.44N–.10 16.18E–.05 0 36 1-3
CSEM I 19 18 13 25.1–.90 51.45N 16.16E 1 2.8L **¶15942567**
PRU I 19 18 13 26.7 51.40N 16.20E 0 2.8L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=13.4km s-min=7.6km az=5.0.
PRU Event type ki.

(548) Poland

ISC I 19 22 17 01.9–.89 50.13N–.04 18.38E–.02 0 50 0-3
ISCJB I 19 22 17 00.6–.51 50.13N–.04 18.35E–.03 0 **¶15942576**
IPEC I 19 22 17 01.7–.17 50.08N 18.45E 0–2 1.6L
CSEM I 19 22 17 01.9–.24 50.11N 18.38E 1 2.6L
PRU I 19 22 17 03.3 50.07N 18.34E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.3km az=8.5.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=2.6km az=3.0.
PRU Event type ki.

(548) Poland

ISC I 20 04 59 03.3–.65 51.60N–.02 16.19E–.02 0 184 1-40
ISCJB I 20 04 59 01.9–.25 51.56N–.01 16.18E–.02 0 2.9b **¶15960437**
IPEC I 20 04 59 03.4–.29 51.60N 16.22E 0 3.0L
CSEM I 20 04 59 04.0–.11 51.55N 16.16E 2 4.0L
IDC I 20 04 59 05.4–.63 51.52N 16.01E 0 3.3,3.2
BGR I 20 04 59 05.7–.63 51.59N 16.11E 1 3.6L,3.2
VIE I 20 04 59 07.4–.36 51.29N 16.17E 0 3.3L,2.9b
UPP I 20 04 59 09.3–2.8 51.87N 15.53E 0 2.3L,2.9b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.1km s-min=2.1km az=145.4.
IPEC Event type ki. Error ellipse: s-maj=3.2km s-min=1.7km az=66.0.
CSEM Event type ki. Error ellipse: s-maj=2.3km s-min=2.0km az=83.0.
IDC Error ellipse: s-maj=13.9km s-min=7.0km az=100.0.
BGR Event type ki. Error ellipse: s-maj=10.0km s-min=5.6km az=162.0.
VIE Event type sr. Error ellipse: s-maj=2.3km s-min=2.2km az=146.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.2km az=-1.0. Suspected explosion.

(548) Poland

ISC I 20 05 00 54.9–.41 51.58N–.02 16.21E–.02 0 3.8b 232 1-84
LDG I 20 05 00 43.9–.17 53.10N 15.52E 1 4.3L **¶15960438**
BNS I 20 05 00 50.5–.74 51.34N 15.91E 5 3.4L
ISCJB I 20 05 00 53.4–.25 51.52N–.02 16.17E–.02 0 3.8b
IPEC I 20 05 00 55.2–.36 51.57N 16.18E 0–1 3.4L
CSEM I 20 05 00 55.3–.15 51.53N 16.16E 1 4.2L
IDC I 20 05 00 56.1–.47 51.56N 16.11E 0 3.9,3.8b
BGR I 20 05 00 57.1–.66 51.53N 16.13E 1 3.9L,3.8b
PRU I 20 05 00 57.3 51.48N 16.13E 0 3.9L,3.8b
VIE I 20 05 00 58.2–1.0 51.28N 16.18E 0–4 3.7L,3.4b
UPP I 20 05 00 59.4–3.4 51.76N 15.48E 0 3.1L,3.4b
ISC Event type sr.
LDG Event type sr. Error ellipse: s-maj=6.0km s-min=2.8km az=143.0. Suspected Mining induced.
BNS Event type ke.
ISCJB Event type sr. Error ellipse: s-maj=2.2km s-min=1.7km az=6.9.
IPEC Event type ki. Error ellipse: s-maj=3.8km s-min=1.8km az=60.0.
CSEM Event type ki. Error ellipse: s-maj=3.0km s-min=2.0km az=15.0.
IDC Error ellipse: s-maj=9.4km s-min=5.5km az=104.0.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=5.6km az=53.0.
PRU Event type ki. Felt In Harrachov.
VIE Event type sr. Error ellipse: s-maj=4.9km s-min=2.3km az=17.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0. Suspected explosion.

(367) Turkey-Georgia-Armenia border region

DDA I 20 07 16 00.7 41.30N 41.87E 7 1.8 ¶601608895
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC I 20 07 32 04.1–.92 50.23N–.05 19.21E–.02 0 37 0-4
ISCJB I 20 07 32 02.8–.70 50.27N–.05 19.18E–.03 0 **¶15960439**
CSEM I 20 07 32 03.9–.29 50.26N 19.21E 2 2.6L
PRU I 20 07 32 04.6 50.25N 19.21E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.3km s-min=2.8km az=10.7.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=2.8km az=9.0.
PRU Event type ki.

(536) Sweden

ISC I 20 18 03 18.8–.70 67.05N–.02 20.94E–.03 0 104 1-11
ISCJB I 20 18 03 17.8–.34 67.04N–.02 21.00E–.09 0 **¶17190638**
UPP I 20 18 03 18.7–.10 67.07N 21.00E 0 2.0L
NAO I 20 18 03 19.7–1.0 67.10N 21.28E 2.3L
CSEM I 20 18 03 19.2–.17 67.09N 20.89E 2 2.3L
HEL I 20 18 03 19.5–.10 67.06N 20.99E 0 2.3L,2.0L
IDC I 20 18 03 20.3–.78 67.00N 21.22E 0 3.2,3.2
BER I 20 18 03 21.4–3.6 67.12N 20.97E 0 2.3L,1.6L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.9km s-min=2.7km az=0.5.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
CSEM Event type km. Error ellipse: s-maj=5.3km s-min=3.2km az=93.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.7km s-min=1.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=15.8km s-min=7.6km az=110.0.
BER Event type sh. Error ellipse: s-maj=6.2km s-min=18.7km az=-1.0. Suspected explosion.

(366) Turkey

ISC I 20 23 28 19.5–.77 37.25N–.02 28.28E–.02 0 49 0-2
DDA I 20 23 28 19.0 37.22N 28.41E 7 2.6 **¶16358271**
ISCJB I 20 23 28 20.0–.41 37.24N–.02 28.32E–.03 0 2.6
ISK I 20 23 28 19.1 37.26N 28.27E 5 2.8
CSEM I 20 23 28 20.0–.24 37.25N 28.31E 1 2.8
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=3.4km az=151.0.
CSEM Event type sm. Error ellipse: s-maj=5.5km s-min=4.8km az=59.0. Suspected Mining explosion.

(548) Poland

PRU I 21 02 09 41.2 51.42N 16.13E 0
CSEM I 21 02 09 41.6–.77 51.37N 16.17E 2 2.4L **¶15960461**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=11.5km s-min=6.6km az=12.0.

(366) Turkey

ISC I 21 14 04 48.1–.83 40.29N–.03 39.68E–.02 0 33 0-2
ISK I 21 14 04 47.3 40.30N 39.52E 20 2.6 **¶16358299**
ISCJB I 21 14 04 49.1–.52 40.33N–.03 39.63E–.04 0 2.6
CSEM I 21 14 04 49.8–.39 40.39N 39.64E 1 2.6
DDA I 21 14 04 50.2 40.40N 39.68E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.9km az=1.3.
CSEM Event type sm. Error ellipse: s-maj=9.7km s-min=7.4km az=167.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 21 14 13 18.7–.84 40.70N–.02 39.93E–.03 0 34 0-2
DDA I 21 14 13 19.0 40.69N 39.93E 7 2.7 **¶16358300**
ISCJB I 21 14 13 19.5–.47 40.69N–.03 39.90E–.03 0 2.7
CSEM I 21 14 13 19.8–.18 40.69N 39.91E 1 2.7
ISK I 21 14 13 19.6 40.68N 39.84E 9 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.9km s-min=3.5km az=161.0.
CSEM Event type sm. Error ellipse: s-maj=3.4km s-min=3.3km az=109.0. Suspected Mining explosion.

(366) Turkey

DDA I 21 17 27 22.2 40.12N 31.79E 8 2.5
CSEM I 21 17 27 19.7–.40 40.03N 32.00E 1 2.5 **¶601608952**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC I 21 20 03 31.1–.83 43.52N–.07 105.05W–.06 0 15 1-93
IDC I 21 20 03 27.8–1.5 42.88N 104.79W 0 4.1,4.1b **¶17190696**
ISCJB I 21 20 03 29.8–.85 43.5N–.10 104.90W–.09 0 4.2b,4.1b
NEIC I 21 20 03 33.4–.77 43.67N 105.32W 0 3.1L,4.1b
ISC Event type sm.
IDC Error ellipse: s-maj=24.9km s-min=9.0km az=158.0.
ISCJB Event type fm. Error ellipse: s-maj=16.4km s-min=7.2km az=153.0.
NEIC Event type fm. Error ellipse: s-maj=14.6km s-min=9.6km az=147.0. 71 km [44 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC I 21 22 31 46.0–.87 43.25N–.04 105.83W–.04 0 31 1-7
ISCJB I 21 22 31 45.0–.58 43.21N–.04 105.89W–.04 0 **¶601792940**
NEIC I 21 22 31 45.8–.81 43.25N 105.80W 0 2.6L
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.1km s-min=3.9km az=16.9.
NEIC Event type fm. Error ellipse: s-maj=10.9km s-min=9.6km az=190.0. 43 km [26 miles] ESE of Midwest. Suspected Mining explosion.

(548) Poland

ISC I 22 04 31 24.5–.88 51.58N–.03 16.11E–.02 0 80 1-4
ISCJB I 22 04 31 23.9–.56 51.51N–.03 16.12E–.03 0 **¶15960481**
CSEM I 22 04 31 25.2–.29 51.53N 16.10E 2 3.3L
VIE I 22 04 31 28.0–.36 51.30N 16.20E 0 2.7L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.2km s-min=2.8km az=12.6.
CSEM Event type ki. Error ellipse: s-maj=5.0km s-min=3.6km az=1.0.
VIE Event type sr. Error ellipse: s-maj=3.1km s-min=2.4km az=95.0. Suspected Mining induced.

(548) Poland

ISC I 22 04 34 04.3–.83 50.10N–.03 19.07E–.02 0 46 0-4
ISCJB I 22 04 34 03.3–.54 50.16N–.04 19.04E–.03 0 **¶15960482**
IPEC I 22 04 34 04.3–.17 50.17N 19.12E 0 1.8L
CSEM I 22 04 34 04.0–.28 50.17N 19.06E 2 2.8L
PRU I 22 04 34 04.4 50.16N 19.05E 0 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.9km s-min=2.7km az=10.0.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=167.0.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.0km az=8.0.
PRU Event type ki.

(366) Turkey

ISC I 22 08 15 55.8–1.2 41.03N–.04 35.93E–.02 0 26 0-1
ISCJB I 22 08 15 55.5–.61 41.02N–.05 35.93E–.04 0 **¶16358326**
CSEM I 22 08 15 55.4–.36 41.01N 35.92E 1 2.5
DDA I 22 08 15 55.7 41.02N 35.93E 7 2.5
ISK I 22 08 15 55.0 41.05N 35.91E 6 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.3km s-min=3.7km az=19.7.
CSEM Event type sm. Error ellipse: s-maj=9.4km s-min=6.2km az=11.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC I 22 12 06 17.6–.96 39.12N–.04 39.87E–.03 0 26 0-2
CSEM I 22 12 06 17.9–.46 39.21N 39.82E 1 2.6 **¶16358333**
ISK I 22 12 06 17.7 39.07N 39.91E 20 2.5
ISCJB I 22 12 06 18.5–.55 39.08N–.03 39.90E–.04 0 2.5
DDA I 22 12 06 25.4 39.07N 39.54E 5 2.6
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=10.3km s-min=8.2km az=95.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.9km az=174.8.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC I 22 12 10 43.2–.87 50.13N–.04 19.09E–.02 0 38 0-4
ISCJB I 22 12 10 42.4–.61 50.17N–.05 19.06E–.03 0 **¶15960485**
IPEC I 22 12 10 43.5–.17 50.19N 19.11E 0 1.7L
CSEM I 22 12 10 43.4–.29 50.15N 19.09E 2 2.5L
PRU I 22 12 10 43.7 50.15N 19.06E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.7km s-min=2.8km az=6.7.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=168.0.
CSEM Event type ki. Error ellipse: s-maj=7.5km s-min=3.1km az=3.0.
PRU Event type ki.

(366) Turkey

ISC I 22 13 15 58.0–.91 38.39N–.03 37.10E–.02 0 42 0-2
ISK I 22 13 15 56.6 38.41N 37.10E 5 2.8 **¶16358335**
ISCJB I 22 13 15 57.5–.44 38.39N–.03 37.10E–.04 0 2.8
CSEM I 22 13 15 57.8–.16 38.39N 37.11E 2 2.8
DDA I 22 13 15 57.8 38.40N 37.15E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.7km az=144.8.
CSEM Event type sm. Error ellipse: s-maj=3.6km s-min=2.9km az=13.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC I 22 16 40 36.2–.77 49.87N–.04 18.48E–.02 0 47 0-3
ISCJB I 22 16 40 35.2–.47 49.90N–.03 18.45E–.03 0 **¶15960489**
IPEC I 22 16 40 35.7–.18 49.83N 18.56E 1–3 1.4L
CSEM I 22 16 40 35.8–.23 49.86N 18.45E 1 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.9km s-min=2.6km az=7.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=3.0km az=6.0.

(548) Poland

ISC I 22 23 12 16.1–1.0 51.45N–.05 16.05E–.02 0 74 1-5
ISCJB I 22 23 12 14.2–.60 51.44N–.03 16.09E–.03 0 **¶15960496**
CSEM I 22 23 12 16.3–.39 51.42N 16.06E 2 3.2L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.6km az=8.1.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.6km az=174.0.

(548) Poland

ISC I 23 09 24 09.9–.58 51.60N–.03 16.06E–.02 0 3.4b 193 1-75
LDG I 23 09 24 09.8–.11 51.56N 16.17E 1 3.8L **¶15960504**
ISCJB I 23 09 24 09.1–.32 51.55N–.02 16.10E–.02 0 3.4b
CSEM I 23 09 24 10.9–.16 51.55N 16.09E 0 4.0L
BGR I 23 09 24 12.0–.58 51.55N 16.13E 1 3.5L
IDC I 23 09 24 11.6–.65 51.54N 15.98E 0 3.7,3.5
VIE I 23 09 24 14.6–.99 51.27N 16.12E 0–4 3.2L,3.2b
ISC Event type sr.
LDG Event type sr. Error ellipse: s-maj=2.8km s-min=1.8km az=15.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=2.7km s-min=2.1km az=20.4.
CSEM Event type ki. Error ellipse: s-maj=3.0km s-min=2.2km az=15.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=21.0.
IDC Error ellipse: s-maj=13.3km s-min=7.4km az=106.0.
VIE Event type sr. Error ellipse: s-maj=5.5km s-min=2.8km az=174.0. Suspected Mining induced.

(536) Sweden

HEL I 23 15 16 11.8–.50 67.84N 20.07E 0 1.1L
¶600673521
HEL Event type kh. Error ellipse: s-maj=2.4km s-min=10.7km az=-1.0. Explosion.

(721) Finland

HEL I 23 15 16 37.9–.10 67.90N 25.39E 0 0.8L
CSEM I 23 15 16 37.9 67.90N 25.39E 0 0.8L **¶600673522**
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=1.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(548) Poland

PRU I 23 19 32 01.8 51.52N 16.14E 0
CSEM I 23 19 32 03.5 51.47N 16.13E 0 **¶15960515**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

(536) Sweden

ISC I 24 00 26 18.2–.70 67.79N–.02 20.30E–.02 0 90 0-11
ISCJB I 24 00 26 17.4–.40 67.80N–.02 20.24E–.06 0 **¶16176388**
UPP I 24 00 26 18.5–.00 67.83N 20.20E 0 1.5L
CSEM I 24 00 26 18.3–.16 67.80N 20.29E 2 1.5L
HEL I 24 00 26 19.0–.10 67.83N 20.23E 0 1.8L,1.5L
NAO I 24 00 26 19.0–1.1 67.82N 20.41E 2.2L,1.5L
BER I 24 00 26 21.0–3.1 67.86N 20.26E 0 2.2L,1.9L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.5km s-min=3.1km az=178.2.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=3.3km s-min=3.3km az=86.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=0.9km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=4.4km s-min=17.4km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

ISC I 24 03 56 36.6–.79 49.84N–.04 18.54E–.02 0 47 0-3
ISCJB I 24 03 56 35.5–.44 49.86N–.04 18.49E–.03 0 **¶15972728**
IPEC I 24 03 56 36.6–.18 49.83N 18.59E 0–4 1.7L
CSEM I 24 03 56 36.4–.19 49.83N 18.52E 1 2.6L
PRU I 24 03 56 37.5 49.84N 18.49E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.9km s-min=2.5km az=7.9.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.5km s-min=2.4km az=6.0.
PRU Event type ki.

(548) Poland

ISC I 24 05 05 35.9–.85 50.11N–.04 19.07E–.02 0 46 0-4
ISCJB I 24 05 05 34.7–.54 50.13N–.04 19.03E–.03 0 **¶15972729**
CSEM I 24 05 05 35.8–.24 50.13N 19.08E 2 2.5L
IPEC I 24 05 05 36.5–.17 50.11N 19.12E 0 1.5L
PRU I 24 05 05 36.4 50.12N 19.06E 0 1.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=2.4km az=8.5.
CSEM Event type ki. Error ellipse: s-maj=6.6km s-min=2.5km az=7.0.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=1.0km az=163.0.
PRU Event type ki.

(721) Finland

ISC I 24 09 15 58.0–.87 63.20N–.04 21.59E–.03 0 25 1-7
IDC I 24 09 15 56.1–1.3 63.06N 21.01E 0 2.9,2.8 **¶17190880**
ISCJB I 24 09 15 57.0–.61 63.19N–.04 21.61E–.07 0 2.9,2.8
CSEM I 24 09 15 58.8 63.16N 21.62E 0 1.5L,2.8
HEL I 24 09 15 58.8–.00 63.16N 21.62E 0 1.5L,2.8
ISC Event type km.
IDC Error ellipse: s-maj=18.3km s-min=13.5km az=36.0.
ISCJB Event type km. Error ellipse: s-maj=6.5km s-min=4.3km az=18.7.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0. Explosion.

(548) Poland

ISC I 24 13 15 35.9–.83 50.12N–.03 19.10E–.02 0 56 0-4
ISCJB I 24 13 15 34.3–.53 50.17N–.04 19.06E–.03 0 **¶15972734**
CSEM I 24 13 15 34.9–.29 50.18N 19.12E 2 3.0L
IPEC I 24 13 15 35.2–.20 50.19N 19.14E 1–1 2.0L
PRU I 24 13 15 35.4 50.19N 19.11E 0 2.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.7km s-min=2.5km az=10.6.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=2.9km az=8.0.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=167.0.
PRU Event type ki.

(548) Poland

ISC I 24 16 23 31.7–.80 50.10N–.03 18.41E–.02 0 59 0-4
ISCJB I 24 16 23 30.6–.48 50.11N–.03 18.36E–.03 0 **¶15972737**
IPEC I 24 16 23 31.3–.17 50.07N 18.48E 0–2 1.6L
CSEM I 24 16 23 31.2–.26 50.09N 18.39E 1 2.5L
PRU I 24 16 23 32.8 50.08N 18.35E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.5km az=12.3.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=3.1km az=12.0.
PRU Event type ki.

(547) Czech and Slovak Republics

ISC I 24 22 05 41.4–.71 49.79N–.03 18.52E–.01 0 118 0-5
ISCJB I 24 22 05 39.6–.34 49.84N–.02 18.46E–.02 0 **¶15972746**
IPEC I 24 22 05 41.3–.18 49.81N 18.59E 0–4 2.3L
CSEM I 24 22 05 41.2–.19 49.83N 18.49E 2 3.1L
VIE I 24 22 05 41.2–.81 49.67N 18.58E 0 2.5L,2.5b
PRU I 24 22 05 42.0 49.87N 18.51E 0 2.5L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.7km s-min=1.9km az=18.7.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.3km s-min=2.5km az=15.0.
VIE Event type sr. Error ellipse: s-maj=6.3km s-min=4.8km az=83.0. Suspected Mining induced.
PRU Event type ki.

(548) Poland

ISC I 24 22 39 30.9–.84 50.20N–.04 19.22E–.02 0 49 0-4
ISCJB I 24 22 39 29.0–.59 50.26N–.04 19.19E–.03 0 **¶15972747**
CSEM I 24 22 39 30.7–.35 50.22N 19.22E 2 2.7L
PRU I 24 22 39 31.3 50.22N 19.20E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.5km s-min=2.4km az=14.4.
CSEM Event type ki. Error ellipse: s-maj=9.2km s-min=3.6km az=11.0.
PRU Event type ki.

(366) Turkey

ISC I 25 08 58 26.2–.89 39.89N–.02 29.97E–.02 0 53 0-1
ISCJB I 25 08 58 25.7–.39 39.89N–.02 29.95E–.03 0 **¶16358386**
CSEM I 25 08 58 25.7–.14 39.88N 29.96E 1 2.4
DDA I 25 08 58 25.7 39.86N 29.96E 8 2.6
ISK I 25 08 58 25.2 39.90N 29.97E 10 2.4
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.6km s-min=3.0km az=1.4.
CSEM Event type sm. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(723) Finland-Karelia border region

ISC I 25 10 00 30.8–1.1 64.77N–.03 30.70E–.07 0 55 1-14
ISCJB I 25 10 00 30.8–.88 64.73N–.03 30.3E–.10 0 **¶17190955**
CSEM I 25 10 00 30.3–.55 64.66N 30.69E 2 1.8L
HEL I 25 10 00 31.5–.20 64.73N 30.62E 0 1.8L,1.4L
IDC I 25 10 00 33.3–2.8 64.81N 31.43E 0 3.4,3.4
UPP I 25 10 00 39.2 64.88N 29.37E 0 1.4L,3.4
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=8.7km s-min=4.5km az=16.0.
CSEM Event type km. Error ellipse: s-maj=13.4km s-min=7.0km az=92.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=1.6km az=-1.0. Explosion.
IDC Error ellipse: s-maj=41.3km s-min=9.8km az=102.0.
UPP Event type sm. Suspected Mining explosion.

(359) Bulgaria

BEO I 25 13 09 19.8–1.5 42.57N 24.16E 0 1.7
CSEM I 25 13 09 18.8–1.3 42.50N 24.19E 2 1.7L **¶601254583**
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=29.8km s-min=15.3km az=150.0. Mining explosion.

(548) Poland
ISC I 25 17 02 14.1–.81 50.05N–.03 18.46E–.02 0 58 0-4
ISCJB I 25 17 02 13.0–.47 50.07N–.03 18.40E–.03 0 ¶15972765
IPEC I 25 17 02 14.2–.17 50.06N 18.53E 2–2 2.0L
CSEM I 25 17 02 14.1–.24 50.09N 18.45E 1 2.8L
PRU I 25 17 02 15.2 50.05N 18.43E 0 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.6km az=4.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.3km s-min=3.0km az=8.0.
PRU Event type ki.

(460) Wyoming
ISC I 25 21 06 44.6–.71 43.94N–.04 105.29W–.04 0 44 1-19
IDC I 25 21 06 43.7–1.7 43.92N 105.41W 0 3.5,3.2 ¶16135805
ISCJB I 25 21 06 44.2–.41 44.01N–.03 105.28W–.04 0 3.5,3.2
NEIC I 25 21 06 45.7–.64 43.97N 105.28W 0 3.5L,3.2
ISC Event type sm.
IDC Error ellipse: s-maj=47.4km s-min=9.1km az=148.0.
ISCJB Event type fm. Error ellipse: s-maj=4.6km s-min=4.0km az=14.0.
NEIC Event type fm. Error ellipse: s-maj=8.9km s-min=6.9km az=211.0. 40 km [25 miles] SSE of Gillette. Suspected Mining explosion.

(536) Sweden
UPP I 26 00 30 53.5–.00 67.83N 20.23E 0 1.6L
CSEM I 26 00 30 53.2–.22 67.82N 20.25E 2 1.6L ¶600888527
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=6.5km s-min=5.1km az=135.0. Mining explosion.

(536) Sweden
CSEM I 26 00 30 49.0 67.83N 20.20E 5 1.1L
¶601902992
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(723) Finland-Karelia border region
ISC I 26 09 16 29.6–1.4 60.88N–.07 28.96E–.06 0 36 1-9
ISCJB I 26 09 16 28.6–1.1 60.89N–.05 29.0E–.10 0 ¶17191024
HEL I 26 09 16 30.4–.30 60.90N 29.02E 0 1.9L
CSEM I 26 09 16 30.4 60.90N 29.02E 0 1.9L
IDC I 26 09 16 31.3–1.9 60.93N 28.92E 0 3.3,3.2
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=9.5km s-min=4.8km az=135.5.
HEL Event type kh. Error ellipse: s-maj=2.0km s-min=2.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
IDC Error ellipse: s-maj=18.6km s-min=11.9km az=173.0.

(374) Jordan-Syria region
DDA I 26 09 45 58.1 36.31N 37.05E 7 2.9
¶601609108
DDA Event type sm. Suspected Mining explosion.

(366) Turkey
DDA I 26 10 28 08.7 37.72N 38.06E 7 2.6
¶601609113
DDA Event type sm. Suspected Mining explosion.

(374) Jordan-Syria region
ISC I 26 10 56 23.8–.85 36.33N–.03 37.05E–.04 0 31 0-1
NSSC I 26 10 56 23.5–.74 36.38N 37.10E 10–5 1.7L,0.9 ¶601609114
ISCJB I 26 10 56 24.4–.62 36.31N–.03 37.05E–.04 0 1.7L,0.9
CSEM I 26 10 56 24.5–.35 36.31N 37.05E 1 1.7L,0.9
DDA I 26 10 56 25.0 36.35N 37.06E 7 2.9,0.9
ISC Event type sm.
NSSC Error ellipse: s-maj=2.6km s-min=6.4km az=-1.0.
ISCJB Event type sm. Error ellipse: s-maj=5.9km s-min=3.4km az=35.0.
CSEM Event type sm. Error ellipse: s-maj=8.3km s-min=5.0km az=132.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey
ISC I 26 12 54 08.5–1.0 37.06N–.04 27.96E–.02 0 26 0-1
ISCJB I 26 12 54 08.7–.64 37.04N–.04 27.98E–.04 0 ¶16358408
ISK I 26 12 54 08.6 37.10N 27.91E 22 2.2L,2.2
CSEM I 26 12 54 09.2–.35 37.03N 27.95E 1 2.2,2.2
DDA I 26 12 54 10.6 37.10N 27.92E 7 2.6,2.2
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.6km s-min=4.2km az=3.6.
CSEM Event type sm. Error ellipse: s-maj=8.0km s-min=5.5km az=173.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland
ISC I 26 17 45 03.3–.64 51.58N–.03 16.10E–.02 0 152 1-60
ISCJB I 26 17 45 02.5–.36 51.49N–.02 16.12E–.02 0 3.5b ¶15972781
IPEC I 26 17 45 03.0–.29 51.58N 16.20E 0 2.8L
CSEM I 26 17 45 04.3–.19 51.51N 16.07E 2 3.7L
BGR I 26 17 45 05.0–.77 51.63N 16.03E 1 3.3L
IDC I 26 17 45 05.3–.66 51.48N 15.98E 0 3.6,3.5
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=2.9km s-min=2.2km az=15.2.
IPEC Event type ki. Error ellipse: s-maj=3.3km s-min=1.7km az=66.0.
CSEM Event type ki. Error ellipse: s-maj=3.8km s-min=2.6km az=12.0.
BGR Event type ki. Error ellipse: s-maj=20.0km s-min=7.8km az=158.0.
IDC Error ellipse: s-maj=10.5km s-min=6.5km az=108.0.

(460) Wyoming
ISC I 26 20 01 11.4–.94 43.67N–.06 104.91W–.05 0 26 1-20
ISCJB I 26 20 01 09.4–.58 43.66N–.06 104.86W–.07 0 ¶17191058
IDC I 26 20 01 10.0–2.5 43.44N 105.21W 0 3.3,3.1
NEIC I 26 20 01 12.7–.44 43.63N 105.10W 0 2.9L,3.1
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=8.2km s-min=6.8km az=9.4.
IDC Error ellipse: s-maj=53.4km s-min=9.6km az=152.0.
NEIC Event type fm. Error ellipse: s-maj=6.1km s-min=5.4km az=193.0. 75 km [50 miles] WSW of Newcastle. Suspected Mining explosion.

(548) Poland
ISC I 26 23 42 06.4–.79 50.10N–.04 18.42E–.02 0 56 0-4
ISCJB I 26 23 42 05.4–.48 50.12N–.03 18.33E–.03 0 ¶15972786
CSEM I 26 23 42 06.9–.28 50.08N 18.35E 2 2.7L
IPEC I 26 23 42 06.6–.17 50.05N 18.46E 0–2 1.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=2.5km az=8.9.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=3.4km az=7.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.

(536) Sweden
ISC I 27 00 31 53.1–.80 67.85N–.03 20.12E–.02 0 45 0-4
ISCJB I 27 00 31 52.9–.47 67.82N–.03 20.40E–.08 0 ¶600673719
HEL I 27 00 31 52.7–.40 67.92N 19.95E 0 1.6L
CSEM I 27 00 31 53.1–.22 67.84N 20.26E 1 0.7L
UPP I 27 00 31 53.8 67.86N 20.19E 0 0.7L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=4.0km az=44.9.
HEL Event type kh. Error ellipse: s-maj=2.3km s-min=6.7km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.2km s-min=4.4km az=166.0. Mining explosion.
UPP Event type km. Mining explosion.

(548) Poland
ISC I 27 00 48 05.0–.80 50.11N–.03 19.15E–.02 0 43 0-4
ISCJB I 27 00 48 03.8–.49 50.11N–.03 19.11E–.03 0 ¶15994992
IPEC I 27 00 48 04.4–.20 50.19N 19.15E 1–1 1.8L
PRU I 27 00 48 04.4 50.18N 19.12E 0 1.8L
CSEM I 27 00 48 04.4–.23 50.14N 19.16E 2 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.8km s-min=2.8km az=5.3.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=167.0.
PRU Event type ki.
CSEM Event type ki.

(536) Sweden
ISC I 27 01 36 14.7–.68 67.82N–.02 20.29E–.02 0 135 0-10
ISCJB I 27 01 36 14.5–.32 67.83N–.02 20.30E–.06 0 ¶16005288
UPP I 27 01 36 15.1–.00 67.84N 20.21E 0 1.9L
IDC I 27 01 36 15.9–1.2 67.89N 20.45E 0 3.0,2.8
CSEM I 27 01 36 15.4–.15 67.84N 20.32E 2 1.9L,2.8
NAO I 27 01 36 15.6–.80 67.85N 20.58E 2.4L,2.8
HEL I 27 01 36 15.7–.00 67.86N 20.22E 0 2.1L,1.9L
BER I 27 01 36 17.5–3.8 67.84N 20.37E 0 2.4L,2.3
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.2km s-min=2.8km az=36.2.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=17.9km s-min=7.0km az=121.0.
CSEM Event type km. Error ellipse: s-maj=3.8km s-min=3.2km az=132.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=0.3km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=5.5km s-min=17.3km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics
ISC I 27 03 37 26.1–.97 49.84N–.07 18.54E–.03 0 30 0-3
ISCJB I 27 03 37 25.6–.75 49.85N–.05 18.43E–.04 0 ¶15994997
IPEC I 27 03 37 25.8–.38 49.84N 18.60E 2–4 1.7L
PRU I 27 03 37 26.8 49.87N 18.51E 0 1.7L
CSEM I 27 03 37 26.4–.31 49.83N 18.48E 1 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=8.0km s-min=3.8km az=165.6.
IPEC Event type ki. Error ellipse: s-maj=2.4km s-min=2.1km az=110.0.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.2km s-min=3.7km az=165.0.

(548) Poland
PRU I 27 04 19 17.0 50.22N 19.27E 0
CSEM I 27 04 19 16.2–.19 50.23N 19.26E 1 ¶15995001
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.2km s-min=2.3km az=6.0.

(548) Poland
ISC I 27 04 49 23.4–.66 51.52N–.03 16.10E–.02 0 114 1-60
ISCJB I 27 04 49 22.2–.39 51.48N–.02 16.13E–.03 0 3.2b ¶15995002
CSEM I 27 04 49 24.1–.30 51.46N 16.14E 2 3.5L
IDC I 27 04 49 24.9–.71 51.46N 16.01E 0 3.3,3.3L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.1km s-min=2.6km az=6.5.
CSEM Event type ki. Error ellipse: s-maj=5.4km s-min=4.0km az=171.0.
IDC Error ellipse: s-maj=11.3km s-min=6.9km az=97.0.

(548) Poland
ISC I 27 08 38 39.9–.79 50.15N–.04 19.26E–.02 0 48 0-4
ISCJB I 27 08 38 38.1–.56 50.22N–.04 19.19E–.03 0 ¶15995004
IPEC I 27 08 38 39.4–.21 50.26N 19.26E 0–1 2.2L
CSEM I 27 08 38 39.3–.32 50.20N 19.23E 1 3.1L
PRU I 27 08 38 40.2 50.18N 19.22E 0 3.1L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.7km s-min=2.4km az=15.3.
IPEC Event type ki. Error ellipse: s-maj=2.9km s-min=1.1km az=170.0.
CSEM Event type ki. Error ellipse: s-maj=8.0km s-min=3.3km az=12.0.
PRU Event type ki.

(374) Jordan-Syria region
ISC I 27 10 22 15.5–.77 34.29N–.02 36.45E–.03 0 54 0-4
GRAL I 27 10 22 14.9–.52 34.46N 36.68E 9–9 3.0 ¶16506015
ISCJB I 27 10 22 15.8–.47 34.39N–.02 36.54E–.04 0 3.0
CSEM I 27 10 22 17.4–.28 34.30N 36.53E 15 1.9L
NSSC I 27 10 22 20.6–2.0 34.03N 36.73E 0–9 1.9L
DDA I 27 10 22 35.2 35.13N 36.67E 7 3.0
ISC Event type sm.
GRAL Error ellipse: s-maj=10.2km s-min=6.1km az=-1.0.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.3km az=17.3.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.5km az=120.0.
NSSC Error ellipse: s-maj=6.9km s-min=6.3km az=-1.0.
DDA Event type sm. Suspected Mining explosion.

(713) Central Kazakhstan
ISC I 27 11 42 06.7–1.0 49.16N–.05 72.95E–.09 0 11 1-9
ISCJB I 27 11 42 05.0–.70 49.18N–.04 72.97E–.09 0 ¶16396967
NNC I 27 11 42 06.0–.57 49.18N 72.89E 0 3.0b,2.8
IDC I 27 11 42 07.3–3.4 49.12N 73.05E 0 2.9,2.9
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=9.0km s-min=5.7km az=3.6.
NNC Event type sm. Error ellipse: s-maj=8.1km s-min=2.5km az=97.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=65.7km s-min=12.6km az=42.0.

(367) Turkey-Georgia-Armenia border region
ISC I 27 12 35 18.6–2.5 40.95N–.09 43.6E–.10 0 11 0-1
DDA I 27 12 35 22.7 40.80N 43.29E 7 2.6 ¶601609184
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming
ISC I 27 21 21 34.6–.61 43.99N–.03 105.42W–.03 0 49 1-19
ISCJB I 27 21 21 32.8–.35 44.05N–.03 105.37W–.03 0 ¶17191145
IDC I 27 21 21 32.7–1.0 44.10N 105.52W 0 3.2,3.1
NEIC I 27 21 21 34.3–.38 44.06N 105.42W 0 2.8L,3.1
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=3.0km az=15.2.
IDC Error ellipse: s-maj=21.4km s-min=8.6km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=6.8km s-min=4.1km az=182.0. 28 km [17 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland
ISC I 28 05 31 25.4–1.1 51.52N–.05 15.95E–.02 0 72 1-4
ISCJB I 28 05 31 22.7–.61 51.52N–.03 16.01E–.03 0 ¶15995025
CSEM I 28 05 31 25.2–.44 51.49N 15.99E 2 3.0L
PRU I 28 05 31 28.1 51.41N 15.98E 0 3.0L
VIE I 28 05 31 30.8–1.6 51.21N 16.11E 0 2.5L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.4km s-min=2.7km az=12.7.
CSEM Event type ki. Error ellipse: s-maj=7.1km s-min=3.9km az=179.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=11.1km s-min=8.4km az=55.0. Suspected Mining induced.

(548) Poland
ISC I 28 06 59 22.4–.85 50.23N–.04 18.66E–.02 0 38 0-3
ISCJB I 28 06 59 21.5–.50 50.29N–.04 18.65E–.03 0 ¶15995027
CSEM I 28 06 59 22.1–.27 50.28N 18.69E 2 2.8L
PRU I 28 06 59 22.7 50.24N 18.67E 0 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.0km s-min=2.7km az=5.2.
CSEM Event type ki. Error ellipse: s-maj=7.0km s-min=3.3km az=7.0.
PRU Event type ki.

(536) Sweden
ISC I 28 08 03 26.9–.55 67.18N–.02 20.68E–.02 0 3.5b 169 1-62
ISCJB I 28 08 03 26.3–.27 67.17N–.02 20.73E–.05 0 3.7b ¶15977466
NAO I 28 08 03 27.7–.70 67.16N 20.99E 3.5L
UPP I 28 08 03 27.3–.10 67.19N 20.65E 0 3.0L
IDC I 28 08 03 27.5–.59 67.16N 20.87E 0 3.7,3.7
CSEM I 28 08 03 27.5–.12 67.17N 20.73E 2 2.9L,3.7
HEL I 28 08 03 28.1–.10 67.18N 20.69E 0 3.0L,3.0L
BER I 28 08 03 30.1–3.6 67.13N 20.93E 0 3.5L,3.4
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.0km s-min=2.3km az=6.2.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=11.3km s-min=5.4km az=112.0.
CSEM Event type sm. Error ellipse: s-maj=3.2km s-min=2.4km az=97.0. Suspected Mining explosion.
HEL Event type sh. Error ellipse: s-maj=0.4km s-min=0.5km az=-1.0. Suspected explosion.
BER Event type sh. Error ellipse: s-maj=5.3km s-min=14.9km az=-1.0. Suspected explosion.

(366) Turkey
ISC I 28 12 43 46.3–1.1 40.72N–.03 39.55E–.03 0 22 0-2
DDA I 28 12 43 45.3 40.66N 39.63E 7 2.8 ¶601609209
ISCJB I 28 12 43 46.1–.61 40.72N–.04 39.55E–.06 0 2.8
CSEM I 28 12 43 46.2–.23 40.72N 39.56E 1 2.8
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.4km s-min=4.0km az=41.4.

CSEM Event type sm. Error ellipse: s-maj=5.5km s-min=4.3km az=129.0. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**I**	**28 13 51 52.7–1.5**	**67.66N–.04**	**33.99E–.08**	**0**		**90**	**0-12**
ISCJB	I	28 13 51 51.4–1.0	67.50N–.03	33.8E–.10	0			**¶600673814**
HEL	I	28 13 51 52.5	67.56N	34.10E	0	2.6L		
UPP	I	28 13 51 54.3–3.0	67.65N	33.78E	0	1.9L		
NAO	I	28 13 51 54.3–1.2	67.68N	33.81E		3.0L		
CSEM	I	28 13 51 54.7–.91	67.52N	33.53E	2	3.0L		
KOLA	I	28 13 51 54.2	67.64N	33.91E	0	3.0L		
IDC	I	28 13 51 55.1–1.9	67.72N	33.95E	0	3.4,3.4		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=8.0km s-min=4.9km az=178.4.
HEL Event type kh. Explosion.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.6km az=-1.0. Suspected explosion.
CSEM Event type km. Error ellipse: s-maj=17.5km s-min=8.6km az=90.0. Mining explosion.
KOLA Event type km.
IDC Error ellipse: s-maj=22.8km s-min=10.1km az=91.0.

(366) Turkey

ISC	**I**	**28 15 26 37.1–.99**	**40.68N–.04**	**41.14E–.04**	**0**		**22**	**1-2**
ISCJB	I	28 15 26 36.9–.57	40.67N–.04	41.18E–.05	0			**¶601609223**
DDA	I	28 15 26 36.7	40.70N	41.09E	7	2.6		
CSEM	I	28 15 26 37.2–.14	40.67N	41.16E	1	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.0km s-min=3.7km az=141.4.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.1km s-min=2.5km az=137.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**I**	**28 16 14 32.0–.76**	**49.96N–.03**	**18.53E–.02**	**0**		**70**	**0-4**
ISCJB	I	28 16 14 30.9–.41	49.98N–.03	18.44E–.03	0			**¶15995039**
IPEC	I	28 16 14 32.0–.17	49.98N	18.57E	2–2	2.3L		
CSEM	I	28 16 14 32.0–.22	49.98N	18.48E	2	3.1L		
VIE	I	28 16 14 33.2–.83	49.73N	18.55E	0	2.6L,2.1b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.4km s-min=2.3km az=10.1.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.7km s-min=3.1km az=7.0.
VIE Event type sr. Error ellipse: s-maj=5.4km s-min=4.7km az=46.0. Suspected Mining induced.

(548) Poland

ISC	**I**	**29 10 15 40.9–.84**	**50.28N–.04**	**18.78E–.02**	**0**		**46**	**0-4**
ISCJB	I	29 10 15 39.8–.50	50.29N–.04	18.72E–.03	0			**¶15995075**
CSEM	I	29 10 15 40.9–.32	50.28N	18.75E	2	2.8L		
IPEC	I	29 10 15 41.3–.52	50.25N	18.81E	0–2	2.0L		
PRU	I	29 10 15 41.4	50.28N	18.72E	0	2.0L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.5km az=5.1.
CSEM Event type ki. Error ellipse: s-maj=7.6km s-min=3.4km az=7.0.
IPEC Event type ki. Error ellipse: s-maj=10.8km s-min=1.1km az=160.0.
PRU Event type ki.

(548) Poland

ISC	**I**	**29 11 36 19.8–.56**	**51.53N–.03**	**16.15E–.02**	**0**	**3.6b**	**174**	**1-60**
ISCJB	I	29 11 36 18.5–.28	51.52N–.02	16.18E–.03	0	3.5b,3.0s		**¶15995079**
CSEM	I	29 11 36 20.6–.15	51.50N	16.15E	2	3.8L,3.0s		
IDC	I	29 11 36 21.0–.62	51.50N	15.95E	0	3.6,3.6b		
PRU	I	29 11 36 22.6	51.42N	16.13E	0	3.6,3.6b		
BGR	I	29 11 36 22.4–.44	51.43N	16.14E	1	3.3L,3.6b		
BNS	I	29 11 36 22.9–.28	50.96N	16.11E	10	3.1L,3.6b		
VIE	I	29 11 36 23.7–.69	51.26N	16.23E	0	3.2L,2.8b		
UPP	I	29 11 36 23.7–3.3	51.59N	15.54E	0	1.9L,2.8b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.6km s-min=2.2km az=25.3.
CSEM Event type ki. Error ellipse: s-maj=3.3km s-min=2.6km az=47.0.
IDC Error ellipse: s-maj=13.3km s-min=7.2km az=101.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=14.0.
BNS Event type ke.
VIE Event type sr. Error ellipse: s-maj=6.8km s-min=3.6km az=29.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

ISC	**I**	**29 13 27 09.9–.72**	**49.81N–.03**	**18.52E–.02**	**0**		**97**	**0-5**
ISCJB	I	29 13 27 08.8–.35	49.85N–.03	18.48E–.03	0			**¶15995082**
IPEC	I	29 13 27 10.3–.18	49.83N	18.57E	0	2.3L		
CSEM	I	29 13 27 10.1–.17	49.83N	18.51E	2	3.2L		
VIE	I	29 13 27 10.4–.66	49.71N	18.58E	0	2.9L,2.8b		
PRU	I	29 13 27 11.0	49.85N	18.48E	0	2.9L,2.8b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=2.1km az=17.1.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=2.4km az=14.0.
VIE Event type sr. Error ellipse: s-maj=5.3km s-min=3.3km az=58.0. Suspected Mining induced.
PRU Event type ki.

(536) Sweden

ISC	**I**	**29 20 10 50.5–.75**	**67.13N–.02**	**20.74E–.03**	**0**		**97**	**1-17**
ISCJB	I	29 20 10 49.9–.38	67.08N–.02	21.02E–.06	0			**¶16005308**
HEL	I	29 20 10 50.9–.10	67.19N	20.58E	0	2.0L		
CSEM	I	29 20 10 51.6–.21	67.13N	20.94E	2	2.0L		
NAO	I	29 20 10 51.7–1.0	67.12N	20.98E		2.4L		
IDC	I	29 20 10 51.6–.84	67.10N	21.04E	0	3.2,3.2		
BER	I	29 20 10 54.5–3.7	67.11N	20.91E	0	2.5L,2.4L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.7km s-min=2.6km az=12.2.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=3.3km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.7km s-min=3.4km az=99.0. Mining explosion.
IDC Error ellipse: s-maj=14.6km s-min=7.2km az=107.0.
BER Event type sh. Error ellipse: s-maj=5.8km s-min=20.8km az=-1.0. Suspected explosion.

(548) Poland

ISC	**I**	**29 22 56 40.4–.87**	**51.55N–.03**	**16.11E–.02**	**0**		**85**	**1-4**
ISCJB	I	29 22 56 40.0–.60	51.47N–.03	16.13E–.03	0			**¶15995096**
CSEM	I	29 22 56 41.4–.38	51.48N	16.10E	2	3.2L		
VIE	I	29 22 56 44.2–1.0	51.27N	16.13E	0	2.7L,2.4b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.5km s-min=2.8km az=17.4.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=4.7km az=3.0.
VIE Event type sr. Error ellipse: s-maj=8.9km s-min=6.9km az=25.0. Suspected Mining induced.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**I**	**30 03 47 33.7–1.5**	**67.58N–.03**	**33.96E–.08**	**0**		**74**	**0-12**
HEL	I	30 03 47 35.8–.30	67.73N	33.75E	0	2.5L		**¶15995101**
KOLA	I	30 03 47 36.0	67.67N	33.79E	0	2.5L		
NAO	I	30 03 47 36.6–1.0	67.64N	33.71E		3.0L		
CSEM	I	30 03 47 37.3–.52	67.64N	33.31E	1	2.6L		
IDC	I	30 03 47 37.1–1.7	67.73N	33.74E	0	3.6,3.6		

ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Explosion.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=10.6km s-min=7.1km az=72.0. Mining explosion.
IDC Error ellipse: s-maj=18.7km s-min=9.1km az=82.0.

(548) Poland

ISC	**I**	**30 07 27 42.7–.81**	**51.54N–.03**	**16.14E–.02**	**0**		**99**	**1-12**
ISCJB	I	30 07 27 42.2–.51	51.43N–.02	16.13E–.03	0			**¶15995105**
IPEC	I	30 07 27 42.7–.29	51.52N	16.21E	0	2.4L		
CSEM	I	30 07 27 43.1–.27	51.49N	16.11E	2	3.5L		
IDC	I	30 07 27 45.1–1.1	51.38N	16.13E	0	3.3,3.1		
VIE	I	30 07 27 45.8–.75	51.30N	16.46E	0	3.0L,2.4b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.6km s-min=2.6km az=15.4.
IPEC Event type ki. Error ellipse: s-maj=3.3km s-min=1.7km az=67.0.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=4.1km az=8.0.
IDC Error ellipse: s-maj=16.8km s-min=9.5km az=129.0.
VIE Event type sr. Error ellipse: s-maj=5.1km s-min=4.0km az=71.0. Suspected Mining induced.

(547) Czech and Slovak Republics

ISC	**I**	**30 08 35 44.2–.88**	**49.79N–.04**	**18.53E–.03**	**0**		**37**	**0-3**
ISCJB	I	30 08 35 42.1–.67	49.67N–.04	18.56E–.04	0			**¶15995106**
IPEC	I	30 08 35 44.5–.19	49.82N	18.59E	2–2	1.7L		
CSEM	I	30 08 35 44.5–.30	49.84N	18.52E	1	2.6L		
PRU	I	30 08 35 45.4	49.87N	18.50E	0	2.6L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=3.9km az=174.7.
IPEC Event type ki. Error ellipse: s-maj=2.3km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=8.3km s-min=3.6km az=167.0.
PRU Event type ki.

(374) Jordan-Syria region

ISC	**I**	**30 10 38 39.3–.82**	**36.59N–.04**	**38.58E–.03**	**0**		**26**	**0-2**
ISCJB	I	30 10 38 39.8–.60	36.61N–.04	38.62E–.04	0			**¶601609246**
DDA	I	30 10 38 39.6	36.64N	38.59E	7	2.8		
CSEM	I	30 10 38 40.3–.39	36.62N	38.60E	2	2.8		
NSSC	I	30 10 38 40.5–.90	36.09N	38.66E	24–8	1.7L		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.1km s-min=4.0km az=28.4.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=10.0km s-min=7.2km az=28.0. Suspected Mining explosion.
NSSC Error ellipse: s-maj=5.0km s-min=8.3km az=-1.0.

(366) Turkey

ISC	**I**	**30 15 59 02.0–.90**	**40.69N–.04**	**41.18E–.03**	**0**		**29**	**0-2**
ISCJB	I	30 15 59 01.9–.53	40.72N–.04	41.16E–.04	0			**¶601609251**
DDA	I	30 15 59 01.3	40.73N	41.13E	7	2.8		
CSEM	I	30 15 59 02.0–.13	40.68N	41.20E	1	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=3.2km az=146.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.7km s-min=2.1km az=140.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**I**	**30 22 05 47.1–.78**	**49.87N–.03**	**18.41E–.02**	**0**		**70**	**0-4**
ISCJB	I	30 22 05 45.5–.40	49.90N–.03	18.37E–.03	0			**¶15995114**
IPEC	I	30 22 05 46.9–.17	49.86N	18.51E	2–3	1.9L		
CSEM	I	30 22 05 47.1–.26	49.88N	18.39E	1	2.9L		
PRU	I	30 22 05 48.0	49.88N	18.40E	0	2.9L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.3km az=10.3.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=7.1km s-min=3.6km az=8.0.
PRU Event type ki.

(548) Poland

ISC	**I**	**31 00 53 36.4–.95**	**50.11N–.05**	**18.39E–.03**	**0**		**18**	**0-2**
								¶602602062

ISC Event type si.

(716) Kyrgyzstan

ISC	**I**	**31 20 14 57.5–.94**	**42.29N–.04**	**71.57E–.03**	**0**		**26**	**1-3**
ISCJB	I	31 20 14 58.0–.62	42.32N–.04	71.55E–.04	0			**¶16487851**
NNC	I	31 20 14 58.3–2.8	42.40N	71.58E	0	2.5b,2.2		
SOME	I	31 20 14 58.0	42.28N	71.57E		2.5b,2.2		
KRNET	I	31 20 14 58.3–.10	42.24N	71.69E	7	1.9b,2.2		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.7km s-min=4.6km az=10.5.
NNC Event type sm. Error ellipse: s-maj=35.3km s-min=5.1km az=15.0. Suspected Mining explosion.
SOME Event type kx.

(547) Czech and Slovak Republics

ISC	**I**	**31 22 36 47.0–.72**	**49.78N–.03**	**18.52E–.02**	**0**		**90**	**0-5**
ISCJB	I	31 22 36 45.9–.35	49.84N–.03	18.46E–.03	0			**¶15995142**
CSEM	I	31 22 36 47.0–.19	49.83N	18.49E	2	2.9L		
IPEC	I	31 22 36 47.3–.18	49.82N	18.59E	1–4	2.1L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.2km s-min=2.2km az=14.3.
CSEM Event type ki. Error ellipse: s-maj=5.5km s-min=2.7km az=16.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.

(548) Poland

ISC	**I**	**31 22 38 42.2–.57**	**50.12N–.02**	**19.12E–.01**	**0**		**216**	**0-62**
ISCJB	I	31 22 38 40.8–.23	50.16N–.02	19.14E–.02	0	3.1b		**¶15995143**
IDC	I	31 22 38 41.6–.87	49.77N	19.38E	0	3.5,3.3		
SIGU	I	31 22 38 41.9–.20	50.12N–.02	19.18E–.01	15	3.1b,3.3		
IPEC	I	31 22 38 42.9–.19	50.09N	19.18E	3–1	2.9L,3.3		
CSEM	I	31 22 38 42.9–.16	50.13N	19.09E	2	3.6L,3.3		
PRU	I	31 22 38 43.4	50.13N	19.11E	0	3.6L,3.3		
BGR	I	31 22 38 43.9–.30	50.13N	19.16E	1	3.3L,3.3		
VIE	I	31 22 38 48.4–.79	49.60N	18.78E	2–4	2.9b,2.8L		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.4km s-min=1.4km az=12.0.
IDC Error ellipse: s-maj=14.5km s-min=7.0km az=156.0.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=163.0.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=2.0km az=17.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=174.0.
VIE Event type sr. Error ellipse: s-maj=4.5km s-min=2.2km az=107.0. Suspected Mining induced.

(548) Poland

ISC	**I**	**31 22 41 13.4–.99**	**50.31N–.05**	**19.30E–.02**	**0**		**41**	**0-4**
ISCJB	I	31 22 41 12.0–.86	50.35N–.05	19.21E–.04	0			**¶15995144**
CSEM	I	31 22 41 12.6–.36	50.32N	19.28E	1	3.1L		
PRU	I	31 22 41 14.8	50.25N	19.25E	0	3.1L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.2km s-min=2.9km az=17.9.
CSEM Event type ki. Error ellipse: s-maj=8.6km s-min=3.4km az=7.0.
PRU Event type ki.

(460) Wyoming

ISC	**I**	**31 23 05 30.5–.81**	**43.66N–.04**	**105.17W–.05**	**0**		**37**	**1-20**
ISCJB	I	31 23 05 28.7–.53	43.79N–.03	105.05W–.05	0			**¶17191444**
IDC	I	31 23 05 29.5–2.2	43.63N	105.27W	0	3.1,3.0		
NEIC	I	31 23 05 31.1–.67	43.70N	105.18W	0	3.0L,2.5		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.1km s-min=4.1km az=140.5.
IDC Error ellipse: s-maj=48.3km s-min=9.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=8.9km s-min=5.7km az=57.0. 71 km [44 miles] SSE of Gillette. Suspected Mining explosion.

(721) Finland

ISC	**II**	**01 11 39 10.0–.77**	**63.10N–.02**	**27.70E–.03**	**0**		**102**	**1-8**
ISCJB	II	01 11 39 08.1–.40	63.17N–.02	27.51E–.06	0			**¶15993437**
IDC	II	01 11 39 10.8–1.6	63.02N	28.09E	0	3.3,3.3		
HEL	II	01 11 39 10.0–.10	63.12N	27.78E	0	2.3L,3.3		
NAO	II	01 11 39 10.9–1.1	63.11N	27.76E		2.5L,3.3		
CSEM	II	01 11 39 10.1–.29	62.99N	27.74E	1	2.3L,3.3		
BER	II	01 11 39 12.2–4.0	63.13N	27.69E	0	2.5L,3.3		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.0km s-min=2.6km az=27.2.
IDC Error ellipse: s-maj=20.3km s-min=7.3km az=108.0.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.2km s-min=4.8km az=115.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=9.5km s-min=30.9km az=-1.0. Suspected explosion.

(366) Turkey

DDA	**II**	**01 13 33 56.6**	**39.68N**	**29.47E**	**7**	**2.6**		
CSEM	II	01 13 33 56.6	39.68N	29.47E	7	2.6		**¶601609276**

DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(378) Pyrenees

CSEM	**II**	**01 15 34 59.8–.13**	**42.39N**	**0.45E**	**1**	**1.6L**		
LDG	II	01 15 34 58.8–.16	42.42N	0.67E	15	2.1,2.0L		**¶16002343**

CSEM Event type km. Error ellipse: s-maj=3.7km s-min=2.2km az=27.0. Mining explosion.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=1.2km az=175.0.

(460) Wyoming

ISC	**II**	**01 19 08 48.6–.73**	**43.58N–.04**	**105.26W–.04**	**0**		**64**	**1-62**

IDC II 01 19 08 46.3–1.8 43.32N 105.20W 0 4.3b,4.0 ¶17191505
ISCJB II 01 19 08 49.0–.26 43.67N–.03 105.34W–.03 0 4.5b,4.0
NEIC II 01 19 08 49.7–.41 43.69N 105.25W 0 3.0L,4.0
ISC Event type sm.
IDC Error ellipse: s-maj=37.5km s-min=8.0km az=154.0.
ISCJB Event type fm. Error ellipse: s-maj=4.2km s-min=2.5km az=145.9.
NEIC Event type fm. Error ellipse: s-maj=5.9km s-min=5.5km az=166.0. 69 km [43 miles] SSE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC II 01 22 23 31.6–.76 49.80N–.03 18.51E–.02 0 66 0-4
ISCJB II 01 22 23 30.6–.42 49.85N–.03 18.42E–.03 0 ¶16002075
IPEC II 01 22 23 31.8–.18 49.81N 18.59E 0 2.0L
CSEM II 01 22 23 31.9–.23 49.81N 18.47E 1 2.9L
VIE II 01 22 23 32.6–1.1 49.63N 18.44E 1–7 2.5L,2.0b
PRU II 01 22 23 32.9 49.84N 18.47E 0 2.5L,2.0b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.9km s-min=2.3km az=10.1.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.5km s-min=3.0km az=8.0.
VIE Event type sr. Error ellipse: s-maj=6.6km s-min=2.6km az=108.0. Suspected Mining induced.
PRU Event type ki.

(548) Poland

CSEM II 02 00 13 10.1–.38 50.31N 18.87E 2
PRU II 02 00 13 10.6 50.28N 18.88E 0 ¶16002076
CSEM Event type ki. Error ellipse: s-maj=10.7km s-min=4.3km az=179.0.
PRU Event type ki.

(536) Sweden

UPP II 02 00 27 19.0 67.83N 20.21E 0 1.2L
CSEM II 02 00 27 17.2–.69 67.81N 20.50E 1 1.2L ¶602000930
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=19.3km s-min=14.7km az=169.0. Mining explosion.

(723) Finland-Karelia border region

ISC II 02 08 58 46.1–1.1 61.06N–.04 28.99E–.06 0 39 1-9
ISCJB II 02 08 58 43.8–.94 61.07N–.04 29.10E–.09 0 ¶16020126
CSEM II 02 08 58 45.5–.40 61.03N 29.05E 1 1.9L
HEL II 02 08 58 47.1–.30 60.99N 29.06E 0 1.9L
BER II 02 08 58 47.9–2.7 61.02N 29.07E 0 2.3L
NAO II 02 08 58 47.9–1.9 61.01N 28.99E 2.3L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=7.5km s-min=4.7km az=42.3.
CSEM Event type km. Error ellipse: s-maj=8.0km s-min=4.5km az=132.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.7km s-min=3.8km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=12.5km s-min=19.0km az=-1.0. Suspected explosion.

(366) Turkey

ISC II 02 10 09 02.1–1.1 37.07N–.04 27.95E–.02 0 24 0-1
ISK II 02 10 09 01.0 37.07N 27.91E 5 2.6 ¶16494100
ISCJB II 02 10 09 02.2–.66 37.07N–.04 27.94E–.03 0 2.6
CSEM II 02 10 09 02.3–.31 37.06N 27.92E 1 2.6
DDA II 02 10 09 03.4 37.15N 27.86E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.9km s-min=3.9km az=3.7.
CSEM Event type sm. Error ellipse: s-maj=7.2km s-min=4.6km az=3.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 02 15 05 18.6–.89 37.40N–.03 28.11E–.03 0 28 0-2
CSEM II 02 15 05 18.8–.82 37.41N 28.14E 1 2.6 ¶16494106
ISK II 02 15 05 18.2 37.44N 28.03E 23 2.7
ISCJB II 02 15 05 19.4–.62 37.41N–.03 28.10E–.05 0 2.7
DDA II 02 15 05 20.1 37.40N 28.13E 7 2.6
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=18.4km s-min=12.9km az=64.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=4.4km az=171.0.
DDA Event type sm. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC II 02 17 00 03.4–.75 49.81N–.03 18.49E–.02 0 76 0-4
ISCJB II 02 17 00 02.2–.39 49.83N–.03 18.43E–.03 0 ¶16002083
IPEC II 02 17 00 03.4–.18 49.82N 18.59E 1–4 2.0L
CSEM II 02 17 00 03.3–.21 49.82N 18.47E 2 2.9L
VIE II 02 17 00 05.3–.86 49.64N 18.37E 1–5 2.5L,2.3b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.5km s-min=2.3km az=14.2.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.8km s-min=3.0km az=11.0.
VIE Event type sr. Error ellipse: s-maj=5.4km s-min=2.3km az=105.0. Suspected Mining induced.

(543) Germany

ISC II 02 17 23 44.2–.71 51.49N–.02 6.49E–.02 0 353 0-8
ISCJB II 02 17 23 42.9–.28 51.45N–.02 6.35E–.02 0 ¶15998206
CSEM II 02 17 23 44.7–.18 51.50N 6.44E 1 3.7L
BUG II 02 17 23 45.5 51.48N 6.57E 1 3.0L
BGR II 02 17 23 46.9–.61 51.49N 6.57E 1 3.2L
BNS II 02 17 23 46.1–.80 51.51N 6.57E 1–17 2.9L
LDG II 02 17 23 46.1–.12 51.50N 6.58E 1 3.6,3.6L
UCC II 02 17 23 46.2–.36 51.47N 6.68E 3–6 2.9L,3.6L
PRU II 02 17 23 50.1 51.40N 6.77E 18 2.9L,3.6L
STR II 02 17 23 50.4–.29 51.30N 6.65E 10 3.2L,3.6L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=2.5km s-min=1.7km az=140.8.
CSEM Event type ki. Error ellipse: s-maj=3.6km s-min=2.4km az=149.0.
GDNRW Event type fi.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=110.0.
BNS Event type ki.
LDG Event type sr. Error ellipse: s-maj=2.3km s-min=1.7km az=153.0. Suspected Mining induced.
UCC Event type ki.
STR Event type ke.

(548) Poland

ISC II 02 18 29 00.8–.79 50.07N–.03 18.39E–.02 0 57 0-4
ISCJB II 02 18 28 59.3–.53 50.11N–.04 18.36E–.03 0 ¶16002086
IPEC II 02 18 29 00.5–.17 50.06N 18.46E 1–2 1.8L
CSEM II 02 18 29 00.3–.29 50.08N 18.37E 1 2.8L
PRU II 02 18 29 01.8 50.06N 18.34E 0 2.8L
VIE II 02 18 29 03.0–.51 49.70N 18.32E 0 2.3L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.2km s-min=2.6km az=11.1.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=3.3km az=8.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=3.6km s-min=2.0km az=116.0. Suspected Mining induced.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 03 04 22 20.9–2.1 67.64N–.04 33.7E–.10 0 56 0-7
HEL II 03 04 22 18.1–.40 67.59N 34.20E 0 2.2L ¶602734454
NAO II 03 04 22 19.8–1.6 67.60N 33.91E 2.3L
CSEM II 03 04 22 21.2–.70 67.62N 33.56E 2 2.3L
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.7km s-min=7.2km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=12.5km s-min=8.2km az=105.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 03 04 20 50.0–.71 26.71N–.04 143.48E–.04 19–2 4.8b,3.9s 360 1-150
NIED II 03 04 20 00 26.90N 143.80E 5 4.6W,3.9s ¶16020128
ISCJB II 03 04 20 45.8–1.2 26.63N–.03 143.50E–.03 3–7 4.8b,3.9s
IDC II 03 04 20 45.9–.46 26.57N 143.65E 0 4.7,4.6
BJI II 03 04 20 47.6 26.68N 143.32E 10 5.0b,4.6b
NEIC II 03 04 20 48.2–.20 26.58N 143.54E 10 4.9b,4.6b
MOS II 03 04 20 48.4–1.2 26.57N 143.54E 23 5.0b,4.6b
JMA II 03 04 20 49.3–.30 26.91N 143.76E 57 4.5,4.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ43.00000°,λ-60.00000°. NP2:ϕ_s321.00000°,δ54.00000°,λ-115.00000°. $M_0$7.79000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=150.3.
IDC Error ellipse: s-maj=13.7km s-min=12.0km az=85.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=159.0.
MOS Error ellipse: s-maj=9.3km s-min=5.2km az=105.9.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 03 10 24 29.7–1.6 67.70N–.04 34.45E–.08 0 81 0-12
KOLA II 03 10 24 31.9 67.69N 34.23E 0 ¶16020129
HEL II 03 10 24 31.4–.30 67.73N 34.30E 0 2.5L
NAO II 03 10 24 31.8–1.2 67.60N 34.21E 2.9L
ISCJB II 03 10 24 31.4–1.0 67.76N–.03 34.0E–.10 0 2.9L
CSEM II 03 10 24 32.8–.36 67.71N 34.08E 5 2.9L
IDC II 03 10 24 33.9–1.9 67.78N 33.93E 0 3.5,3.5
ISC Event type km.
KOLA Event type km.
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0. Explosion.
ISCJB Event type km. Error ellipse: s-maj=7.9km s-min=4.7km az=1.2.
CSEM Event type km. Error ellipse: s-maj=7.0km s-min=3.8km az=84.0. Mining explosion.
IDC Error ellipse: s-maj=21.3km s-min=9.8km az=79.0.

(366) Turkey

ISC II 03 14 15 23.9–.88 41.03N–.02 36.04E–.02 0 40 0-2
ISK II 03 14 15 21.7 40.98N 36.02E 5 2.6 ¶16494137
ISCJB II 03 14 15 24.0–.51 41.04N–.03 36.07E–.04 0 2.6
CSEM II 03 14 15 23.8–.29 41.05N 36.06E 2 2.6
DDA II 03 14 15 23.8 41.02N 36.07E 10 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.5km az=147.9.
CSEM Event type sm. Error ellipse: s-maj=7.2km s-min=5.5km az=47.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 03 14 24 01.7–.92 41.36N–.03 35.80E–.03 0 30 0-2
ISK II 03 14 23 58.9 41.48N 36.07E 5 2.5 ¶16494138
ISCJB II 03 14 24 01.6–.59 41.38N–.03 35.84E–.04 0 2.5
CSEM II 03 14 24 01.3–.42 41.39N 35.86E 2 2.7
DDA II 03 14 24 01.3 41.32N 35.83E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=3.8km az=43.2.
CSEM Event type sm. Error ellipse: s-maj=10.5km s-min=6.3km az=50.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 03 15 55 37.6–.99 40.70N–.04 41.16E–.03 0 25 0-2
ISCJB II 03 15 55 37.5–.60 40.71N–.04 41.15E–.05 0 ¶601609333
CSEM II 03 15 55 37.6–.16 40.67N 41.18E 2 2.6
DDA II 03 15 55 37.3 40.69N 41.14E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.3km s-min=3.5km az=137.6.
CSEM Event type sm. Error ellipse: s-maj=5.5km s-min=2.6km az=138.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC II 03 19 10 06.2–.96 43.54N–.04 105.31W–.04 0 26 1-20
ISCJB II 03 19 10 04.7–.63 43.69N–.06 105.22W–.07 0 ¶17191612
IDC II 03 19 10 04.8–2.6 43.53N 105.41W 0 3.3,3.1
NEIC II 03 19 10 06.3–.61 43.62N 105.25W 0 3.0L,3.1
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=8.6km s-min=7.3km az=23.4.
IDC Error ellipse: s-maj=57.6km s-min=9.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=9.1km s-min=7.5km az=177.0. 77 km [48 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC II 03 20 09 29.1–1.2 45.00N–.06 106.73W–.08 0 26 2-18
IDC II 03 20 09 32.5–1.1 45.14N 107.00W 0 3.5,3.3 ¶17191615
NEIC II 03 20 09 33.1–.93 45.22N 106.70W 0 3.0L,3.3
ISC Event type sm.
IDC Error ellipse: s-maj=38.8km s-min=8.6km az=131.0.
NEIC Event type fm. Error ellipse: s-maj=11.8km s-min=9.5km az=120.0. 51 km [31 miles] NNE of Sheridan. Suspected Mining explosion.

(460) Wyoming

ISC II 03 22 01 27.9–.55 43.75N–.03 105.20W–.02 0 3.8b 84 1-90
IDC II 03 22 01 24.8–1.7 43.32N 105.15W 0 4.0b,3.9 ¶17191622
ISCJB II 03 22 01 26.8–.33 43.77N–.03 105.18W–.03 0 4.0b,3.9
NEIC II 03 22 01 28.3–.40 43.73N 105.22W 0 3.2L,3.9
ISC Event type sm.
IDC Error ellipse: s-maj=45.1km s-min=8.9km az=153.0.
ISCJB Event type fm. Error ellipse: s-maj=3.7km s-min=2.9km az=177.6.
NEIC Event type fm. Error ellipse: s-maj=6.0km s-min=4.9km az=165.0. 66 km [41 miles] SSE of Gillette. Suspected Mining explosion.

(536) Sweden

HEL II 04 00 36 02.7–.00 67.84N 20.20E 0 1.7L,0.8L
CSEM II 04 00 36 01.5–.21 67.81N 20.30E 2 0.8L,0.8L ¶601778298
UPP II 04 00 36 05.1–.10 67.85N 20.21E 0 1.6L,0.8L
HEL Event type kh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.2km s-min=3.9km az=43.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.

(721) Finland

ISC II 04 11 52 14.9–.87 64.01N–.03 28.09E–.04 0 65 1-8
ISCJB II 04 11 52 10.9–.58 63.88N–.02 28.41E–.10 0 ¶17191646
CSEM II 04 11 52 14.2–.56 63.78N 28.15E 1 1.9L
HEL II 04 11 52 14.2–.10 63.99N 28.10E 0 1.9L
IDC II 04 11 52 14.4–1.8 63.94N 28.88E 0 3.2,3.2
UPP II 04 11 52 20.1–2.3 64.24N 27.84E 0 1.7L,3.2
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.3km s-min=3.2km az=11.8.
CSEM Event type km. Error ellipse: s-maj=13.2km s-min=9.7km az=78.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=1.7km az=-1.0. Explosion.
IDC Error ellipse: s-maj=28.7km s-min=8.8km az=99.0.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0. Suspected explosion.

(336) Western Kazakhstan

NNC II 04 13 34 57.3–2.1 48.48N 59.03E 6–9 3.7b,3.0
CSEM II 04 13 34 57.3 48.48N 59.03E 6 3.7b,3.0 ¶16498960
NNC Event type sm. Error ellipse: s-maj=13.0km s-min=10.2km az=172.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(548) Poland

ISC II 04 13 52 56.7–.96 50.05N–.04 18.40E–.03 0 31 0-2
ISCJB II 04 13 52 56.8–.71 50.00N–.04 18.34E–.05 0 ¶16008952
IPEC II 04 13 52 56.1–.17 50.06N 18.45E 0–2 1.5L
CSEM II 04 13 52 57.4–.30 50.01N 18.34E 2 2.5L
PRU II 04 13 52 58.5 50.01N 18.32E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.3km s-min=3.5km az=26.7.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=3.7km az=26.0.
PRU Event type ki.

(536) Sweden

HEL II 05 00 32 13.9–.10 67.81N 20.23E 0 1.6L,1.2L
UPP II 05 00 32 13.3 67.82N 20.20E 0 1.2L,1.2L ¶600709120
CSEM II 05 00 32 13.4–.30 67.80N 20.32E 2 1.2L,1.2L
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0. Explosion.
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=6.7km s-min=5.5km az=110.0. Mining explosion.

(329) Eastern Kazakhstan

ISC II 05 07 30 22.6–.96 50.07N–.05 78.74E–.09 0 27 1-8
NNC II 05 07 30 20.9–1.2 49.98N 78.19E 0 3.3b,3.1 ¶16397643
ISCJB II 05 07 30 21.2–.76 49.97N–.03 78.5E–.10 0 3.3b,3.1
IDC II 05 07 30 23.2–.84 50.08N 78.82E 0 2.8,2.8
ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=27.9km s-min=5.5km az=104.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=9.7km s-min=4.4km az=175.9.
IDC Error ellipse: s-maj=9.6km s-min=6.2km az=53.0.

(548) Poland
ISC II 05 07 44 59.8–.68 51.59N–.03 16.10E–.02 0 169 1-19
ISCJB II 05 07 44 58.4–.29 51.56N–.02 16.11E–.02 0 ¶16008965
IPEC II 05 07 44 59.8–.29 51.61N 16.22E 0 2.8L
CSEM II 05 07 45 00.4–.13 51.55N 16.11E 2 3.7L
VIE II 05 07 45 00.3–.86 51.48N 15.76E 0 3.2L,2.8b
IDC II 05 07 45 01.8–.76 51.53N 16.07E 0 3.5,3.4
BGR II 05 07 45 01.3–.52 51.59N 16.12E 1 3.4L,3.4
UPP II 05 07 45 03.9–3.1 51.68N 15.38E 0 2.6L,3.4
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.4km s-min=1.9km az=14.3.
IPEC Event type ki. Error ellipse: s-maj=3.2km s-min=1.7km az=66.0.
CSEM Event type ki. Error ellipse: s-maj=2.7km s-min=2.0km az=17.0.
VIE Event type sr. Error ellipse: s-maj=6.2km s-min=5.5km az=79.0. Suspected Mining induced.
IDC Error ellipse: s-maj=13.5km s-min=7.6km az=110.0.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=7.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0. Suspected explosion.
(460) Wyoming
ISC II 05 21 00 13.9–.64 43.88N–.03 105.41W–.03 0 59 1-11
ISCJB II 05 21 00 11.8–.29 43.92N–.02 105.37W–.03 0 ¶17191760
IDC II 05 21 00 13.4–2.0 43.85N 105.55W 0 3.8,3.5
NEIC II 05 21 00 13.5–.58 43.88N 105.36W 0 3.1L,3.5
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.1km s-min=2.7km az=149.8.
IDC Error ellipse: s-maj=69.9km s-min=9.1km az=149.0.
NEIC Event type fm. Error ellipse: s-maj=8.7km s-min=7.7km az=113.0. 49 km [30 miles] SSE of Gillette. Suspected Mining explosion.
(374) Jordan-Syria region
ISC II 06 09 57 58.3–1.4 36.41N–.03 37.35E–.08 0 34 0-2
ISCJB II 06 09 57 58.3–1.1 36.42N–.03 37.34E–.08 0 ¶601609438
CSEM II 06 09 57 58.4–.48 36.42N 37.37E 1 2.8
NSSC II 06 09 58 00.9–.49 36.39N 37.18E 1–3 1.5L
DDA II 06 09 58 00.9 36.53N 37.23E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=9.3km s-min=3.8km az=11.1.
CSEM Event type sm. Error ellipse: s-maj=8.4km s-min=4.6km az=93.0. Suspected Mining explosion.
NSSC Error ellipse: s-maj=2.0km s-min=4.5km az=-1.0.
DDA Event type sm. Suspected Mining explosion.
(547) Czech and Slovak Republics
PRU II 06 13 49 42.6 49.82N 18.57E 0 ¶16008985
PRU Event type ki.
(536) Sweden
ISC II 07 00 20 22.0–.82 67.84N–.04 20.22E–.04 0 51 1-8
ISCJB II 07 00 20 20.8–.52 67.71N–.03 20.32E–.10 0 ¶16020133
IDC II 07 00 20 21.8–1.2 67.99N 20.71E 0 3.0,2.9
HEL II 07 00 20 22.2–.10 67.76N 20.08E 0 2.1L,2.9
CSEM II 07 00 20 23.2–.26 67.82N 20.30E 2 2.1L,2.9
NAO II 07 00 20 24.0–1.0 67.82N 20.58E 2.2L,2.9
BER II 07 00 20 25.9–4.5 67.87N 20.41E 0 2.2L,1.8L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.3km s-min=3.7km az=38.1.
IDC Error ellipse: s-maj=18.9km s-min=7.2km az=121.0.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.9km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=6.2km s-min=4.8km az=105.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=6.6km s-min=22.9km az=-1.0. Suspected explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC II 07 11 20 26.1–.87 59.33N–.02 27.05E–.04 0 56 1-10
ISCJB II 07 11 20 25.6–.59 59.32N–.03 26.73E–.09 0 ¶16020135
FIA0 II 07 11 20 26.5 59.34N 27.07E 0 2.1L
CSEM II 07 11 20 26.6–.33 59.30N 27.19E 2 1.9L
NAO II 07 11 20 26.8–1.0 59.29N 26.89E 2.8L
BER II 07 11 20 27.7–3.2 59.30N 26.97E 0 2.8L
IDC II 07 11 20 31.4–2.1 59.61N 26.63E 0 3.3,3.2
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.5km s-min=3.4km az=16.1.
FIA0 Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=9.3km s-min=4.7km az=106.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=6.3km s-min=22.1km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=18.1km s-min=10.3km az=124.0.
(374) Jordan-Syria region
ISC II 07 14 26 12.9–.83 36.57N–.03 38.55E–.03 0 34 0-2
NSSC II 07 14 26 11.1–1.4 35.55N 38.96E 116–10 2.4L ¶601609494
ISCJB II 07 14 26 12.7–.45 36.58N–.03 38.59E–.04 0 2.4L
CSEM II 07 14 26 13.0–.27 36.59N 38.60E 2 2.8
DDA II 07 14 26 13.1 36.59N 38.53E 6 2.8
ISC Event type sm.
NSSC Error ellipse: s-maj=9.8km s-min=6.9km az=-1.0.
ISCJB Event type sm. Error ellipse: s-maj=5.5km s-min=3.2km az=38.3.
CSEM Event type sm. Error ellipse: s-maj=7.3km s-min=4.9km az=38.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(460) Wyoming
ISC II 07 22 42 38.2–.59 43.47N–.02 105.24W–.02 0 75 1-68
ISCJB II 07 22 42 38.0–.26 43.55N–.02 105.26W–.03 0 4.4b,3.1s ¶16342592
IDC II 07 22 42 38.8–.97 43.51N 105.27W 0 4.2b,3.8
NEIC II 07 22 42 38.9–.45 43.55N 105.23W 0 3.3L,3.8
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.0km s-min=2.7km az=142.0.
IDC Error ellipse: s-maj=19.9km s-min=8.9km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=5.9km s-min=5.8km az=99.0. 86 km [53 miles] SSE of Gillette. Suspected Mining explosion.
(366) Turkey
ISC II 08 06 18 50.9–.87 40.27N–.02 33.36E–.03 0 38 0-2
ISK II 08 06 18 49.4 40.33N 33.26E 14 2.7 ¶16494342
ISCJB II 08 06 18 50.6–.50 40.27N–.02 33.40E–.05 0 2.7
CSEM II 08 06 18 50.2–.26 40.28N 33.34E 1 2.6
DDA II 08 06 18 51.2 40.30N 33.44E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=3.3km az=10.5.
CSEM Event type sm. Error ellipse: s-maj=6.3km s-min=3.8km az=108.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(329) Eastern Kazakhstan
NNC II 08 07 21 52.1–.47 50.00N 78.66E 4–6 3.5b,3.2 ¶16501921
NNC Event type sm. Error ellipse: s-maj=9.7km s-min=3.2km az=63.0. Suspected Mining explosion.
(366) Turkey
ISC II 08 11 04 52.8–.99 37.30N–.02 27.95E–.03 0 25 0-1
ISK II 08 11 04 51.1 37.30N 27.97E 28 2.5 ¶16494351
ISCJB II 08 11 04 53.1–.59 37.28N–.03 28.00E–.05 0 2.5
CSEM II 08 11 04 53.4–.38 37.29N 28.01E 1 2.5
DDA II 08 11 04 54.5 37.35N 28.13E 7 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=4.3km az=168.9.
CSEM Event type sm. Error ellipse: s-maj=8.5km s-min=7.1km az=76.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(366) Turkey
ISC II 08 11 06 48.1–.83 37.41N–.03 28.15E–.03 0 31 0-1
ISK II 08 11 06 45.9 37.42N 28.26E 12 2.8 ¶16494352
ISCJB II 08 11 06 48.4–.51 37.28N–.03 28.10E–.04 0 2.8
CSEM II 08 11 06 48.6–.21 37.29N 28.10E 1 2.8
DDA II 08 11 06 48.7 37.33N 28.08E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=3.8km az=141.6.
CSEM Event type sm. Error ellipse: s-maj=4.7km s-min=4.0km az=50.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
CSEM II 08 17 31 08.9–.28 50.10N 19.13E 1 1.9L
PRU II 08 17 31 08.8 50.15N 19.09E 0 1.9L ¶16019915
IPEC II 08 17 31 09.2–.20 50.16N 19.10E 1–1 1.9L
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=3.4km az=171.0.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=1.1km az=166.0.
(548) Poland
ISC II 08 21 30 08.1–1.1 51.36N–.05 16.11E–.03 0 52 1-4
ISCJB II 08 21 30 06.6–.69 51.37N–.03 16.09E–.03 0 ¶16019920
CSEM II 08 21 30 07.2–.66 51.42N 16.06E 1 2.4L
VIE II 08 21 30 08.8–.32 51.25N 16.13E 0 2.6L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.9km s-min=3.0km az=12.2.
CSEM Event type ki. Error ellipse: s-maj=11.4km s-min=8.5km az=153.0.
VIE Event type sr. Error ellipse: s-maj=2.0km s-min=1.7km az=9.0. Suspected Mining induced.
(548) Poland
ISC II 08 22 52 30.6–.62 51.54N–.03 16.11E–.02 0 171 1-40
ISCJB II 08 22 52 29.5–.29 51.52N–.02 16.10E–.02 0 3.0b ¶16019922
CSEM II 08 22 52 31.1–.11 51.53N 16.13E 1 3.7L
IDC II 08 22 52 32.3–.71 51.47N 16.01E 0 3.6,3.6
PRU II 08 22 52 33.1 51.45N 16.07E 0 3.6,3.6
BGR II 08 22 52 33.4–.45 51.43N 16.08E 1 3.3L,3.6
BNS II 08 22 52 34.5–.26 51.51N 15.98E 10 3.0L,3.6
VIE II 08 22 52 34.4–1.9 51.25N 16.11E 0–9 3.2L,2.7b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.7km s-min=1.9km az=13.5.
CSEM Event type ki. Error ellipse: s-maj=2.6km s-min=1.8km az=25.0.
IDC Error ellipse: s-maj=12.1km s-min=6.9km az=102.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=20.0.
BNS Event type ke.
VIE Event type sr. Error ellipse: s-maj=9.0km s-min=3.6km az=28.0. Suspected Mining induced.
(536) Sweden
CSEM II 09 00 29 04.1 67.84N 20.20E 0 0.5L ¶602001340
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
(547) Czech and Slovak Republics
ISC II 09 05 43 03.0–.85 49.55N–.03 14.19E–.03 0 28 0-2
ISCJB II 09 05 43 01.7–.46 49.53N–.02 14.21E–.04 0 ¶16019931
IPEC II 09 05 43 03.1–.07 49.55N 14.19E 2–0 1.5L
CSEM II 09 05 43 03.6–.49 49.49N 14.24E 2 2.6L
VIE II 09 05 43 03.2–.51 49.47N 14.22E 0 2.2L,1.8b
PRU II 09 05 43 03.5 49.55N 14.21E 0 2.2L,1.8b
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.5km s-min=2.9km az=7.5.
IPEC Event type ke. Error ellipse: s-maj=0.5km s-min=0.4km az=119.0.
CSEM Event type sm. Error ellipse: s-maj=9.2km s-min=5.1km az=132.0. Suspected Mining explosion.
VIE Event type sm. Error ellipse: s-maj=4.1km s-min=2.0km az=2.0. Suspected Mining explosion.
PRU Event type ke. Tectonic Event Near Orlik.
(723) Finland-Karelia border region
ISC II 09 09 50 30.9–1.2 61.02N–.03 28.79E–.06 0 47 1-9
ISCJB II 09 09 50 27.2–.88 61.02N–.03 29.00E–.10 0 ¶16020141
BER II 09 09 50 30.8–2.9 60.82N 28.92E 0 2.3L
NAO II 09 09 50 30.0–2.1 60.77N 28.93E 2.3L
HEL II 09 09 50 30.5–.50 60.97N 29.06E 0 2.1L
CSEM II 09 09 50 30.1–.60 61.00N 28.88E 2 2.1L
IDC II 09 09 50 32.0–1.9 60.94N 28.93E 0 3.4,3.3
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.9km s-min=4.1km az=8.8.
BER Event type sh. Error ellipse: s-maj=13.9km s-min=18.7km az=-1.0. Suspected explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=6.2km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=10.9km s-min=6.6km az=107.0. Mining explosion.
IDC Error ellipse: s-maj=18.1km s-min=11.1km az=169.0.
(374) Jordan-Syria region
ISC II 09 12 39 34.9–.98 36.36N–.03 37.33E–.03 0 30 0-1
NSSC II 09 12 39 34.0–1.1 36.63N 37.36E 31–6 1.8L,1.3 ¶601609536
DDA II 09 12 39 34.8 36.33N 37.33E 7 2.7,1.3
ISCJB II 09 12 39 35.2–.67 36.39N–.03 37.32E–.04 0 2.7,1.3
CSEM II 09 12 39 35.1–.44 36.38N 37.32E 1 2.7,1.3
ISC Event type sm.
NSSC Error ellipse: s-maj=8.2km s-min=10.8km az=-1.0.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.6km s-min=4.0km az=38.7.
CSEM Event type sm. Error ellipse: s-maj=11.1km s-min=6.4km az=146.0. Suspected Mining explosion.
(536) Sweden
ISC II 09 13 26 44.4–.65 67.17N–.02 20.69E–.02 0 159 0-11
ISCJB II 09 13 26 43.7–.27 67.20N–.02 20.69E–.05 0 ¶16020146
UPP II 09 13 26 44.8–.10 67.19N 20.71E 1–3 2.2L
IDC II 09 13 26 45.0–.75 67.13N 20.81E 0 3.4,3.3
HEL II 09 13 26 45.5–.10 67.18N 20.67E 1 2.6L,2.2L
NAO II 09 13 26 45.2–.70 67.14N 20.99E 2.9L,2.2L
CSEM II 09 13 26 45.0–.14 67.19N 20.70E 2 2.6L,2.2L
BER II 09 13 26 46.9–3.7 67.17N 20.69E 0 2.9L,2.2L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=2.8km s-min=2.2km az=25.5.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=13.1km s-min=6.6km az=110.0.
HEL Event type sh. Error ellipse: s-maj=0.4km s-min=0.5km az=-1.0. Suspected explosion.
CSEM Event type sm. Error ellipse: s-maj=3.4km s-min=2.8km az=102.0. Suspected Mining explosion.
BER Event type sh. Error ellipse: s-maj=4.4km s-min=11.4km az=-1.0. Suspected explosion.
(545) Northern Italy
ISC II 09 13 34 03.4–.82 45.73N–.02 13.82E–.02 0 47 0-2
VIE II 09 13 34 02.8–.35 45.70N 13.84E 8–3 1.6L,1.3b ¶601241490
CSEM II 09 13 34 03.3–.22 45.72N 13.84E 1 2.1L,1.3b
ISC Event type km.
VIE Error ellipse: s-maj=2.5km s-min=1.4km az=13.0.
CSEM Event type km. Error ellipse: s-maj=5.2km s-min=4.2km az=62.0. Mining explosion.
(366) Turkey
ISC II 09 14 43 02.5–.85 41.34N–.03 35.80E–.02 0 41 0-2
ISK II 09 14 43 00.9 41.42N 35.96E 6 2.4 ¶16494386
ISCJB II 09 14 43 02.4–.46 41.36N–.03 35.82E–.04 0 2.4
CSEM II 09 14 43 02.5–.24 41.35N 35.82E 2 2.8
DDA II 09 14 43 02.4 41.35N 35.84E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=3.0km az=35.8.
CSEM Event type sm. Error ellipse: s-maj=7.4km s-min=3.8km az=39.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
ISC II 09 18 40 03.7–.79 50.03N–.03 18.44E–.02 0 48 0-4
ISCJB II 09 18 40 01.7–.52 50.11N–.04 18.38E–.03 0 ¶16019936
IPEC II 09 18 40 02.6–.17 50.07N 18.48E 1–2 1.7L
CSEM II 09 18 40 03.3–.24 50.00N 18.43E 1 2.6L
VIE II 09 18 40 03.9–.56 49.69N 18.46E 2–2 2.2L,1.8b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.2km s-min=2.6km az=10.9.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=3.2km az=1.0.
VIE Event type sr. Error ellipse: s-maj=3.8km s-min=2.3km az=115.0. Suspected Mining induced.
(724) Baltic States-Belarus-Northwestern Russia
ISC II 10 04 20 47.8–1.8 67.76N–.04 33.63E–.09 0 45 0-7
HEL II 10 04 20 46.8–.40 67.76N 33.89E 0 1.9L ¶16025450
NAO II 10 04 20 46.4–1.7 67.51N 33.88E 2.5L
CSEM II 10 04 20 47.8–.84 67.72N 33.58E 2 2.5L
ISC Event type km.

HEL Event type kh. Error ellipse: s-maj=2.6km s-min=6.5km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=15.0km s-min=8.3km az=77.0. Mining explosion.

(366) Turkey

DDA	**II**	**10 09 19 23.5**	**39.68N**	**29.42E**	**7**	**2.8**	
CSEM	II	10 09 19 23.5	39.68N	29.42E	7	2.8	¶601609554

DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

ISC	**II**	**10 10 19 48.8–1.1**	**40.79N–.02**	**34.86E–.03**	**0**		**38**	**1-1**
ISK	II	10 10 19 48.9	40.81N	34.90E	10	2.7	¶16494404	
ISCJB	II	10 10 19 49.0–.45	40.80N–.02	34.85E–.04	0	2.7		
CSEM	II	10 10 19 49.1–.20	40.79N	34.85E	1	2.7		
DDA	II	10 10 19 49.2	40.80N	34.85E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=3.1km az=21.1.
CSEM Event type sm. Error ellipse: s-maj=5.3km s-min=3.1km az=116.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**II**	**10 10 43 00.6–.76**	**49.99N–.03**	**18.56E–.02**	**0**		**75**	**0-4**
ISCJB	II	10 10 42 59.5–.38	50.01N–.03	18.53E–.02	0		¶16024692	
IPEC	II	10 10 43 00.5–.18	49.96N	18.68E	2–2	2.1L		
CSEM	II	10 10 43 00.6–.30	50.01N	18.56E	2	2.8L		
VIE	II	10 10 43 02.5–1.3	49.82N	18.55E	0–8	2.4L,2.3b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.1km s-min=2.3km az=2.5.
IPEC Event type ki. Error ellipse: s-maj=2.3km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=3.8km az=8.0.
VIE Event type sr. Error ellipse: s-maj=8.5km s-min=4.5km az=117.0. Suspected Mining induced.

(456) Montana

ISC	**II**	**10 19 50 08.4–.98**	**45.95N–.06**	**106.90W–.06**	**0**		**23**	**2-17**
IDC	II	10 19 50 07.8–1.1	45.80N	107.00W	0	3.2,3.1	¶17192035	
NEIC	II	10 19 50 10.3–.75	45.85N	106.66W	0	2.7L,3.1		

ISC Event type sm.
IDC Error ellipse: s-maj=17.3km s-min=9.4km az=124.0.
NEIC Event type fm. Error ellipse: s-maj=12.0km s-min=8.8km az=139.0. 5 km [3 miles] SW of Colstrip. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**II**	**10 21 57 25.0–.77**	**49.82N–.03**	**18.54E–.02**	**0**		**62**	**0-3**
ISCJB	II	10 21 57 23.6–.42	49.86N–.03	18.48E–.03	0		¶16024698	
CSEM	II	10 21 57 24.8–.24	49.82N	18.50E	1	2.5L		
IPEC	II	10 21 57 25.0–.18	49.83N	18.59E	2–4	2.0L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.8km s-min=2.4km az=15.3.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.2km az=12.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.

(548) Poland

ISC	**II**	**11 05 03 52.5–.62**	**51.64N–.03**	**16.00E–.02**	**0**		**201**	**1-60**
ISCJB	II	11 05 03 51.8–.31	51.58N–.02	16.04E–.02	0	3.4b	¶16024701	
IPEC	II	11 05 03 53.3–.34	51.63N	16.12E	2–2	2.9L		
CSEM	II	11 05 03 53.7–.16	51.58N	16.00E	2	3.8L		
IDC	II	11 05 03 54.5–.73	51.57N	15.92E	0	3.6,3.5		
BGR	II	11 05 03 55.0–.36	51.54N	16.02E	1	3.3L,3.5		
VIE	II	11 05 03 57.3–1.4	51.30N	16.01E	0–6	3.1L,3.0b		
UPP	II	11 05 03 58.0–3.1	51.81N	15.24E	0	2.0L,3.0b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.7km s-min=1.9km az=14.0.
IPEC Event type ki. Error ellipse: s-maj=3.7km s-min=1.8km az=61.0.
CSEM Event type ki. Error ellipse: s-maj=3.2km s-min=2.4km az=17.0.
IDC Error ellipse: s-maj=13.9km s-min=7.5km az=102.0.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=2.2km az=14.0.
VIE Event type sr. Error ellipse: s-maj=6.7km s-min=3.6km az=12.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0. Suspected explosion.

(723) Finland-Karelia border region

ISC	**II**	**11 09 59 09.2–1.0**	**64.78N–.03**	**30.38E–.05**	**0**		**58**	**1-9**
ISCJB	II	11 09 59 07.9–.74	64.77N–.03	30.2E–.10	0		¶16025503	
NAO	II	11 09 59 08.2–1.6	64.69N	30.84E		2.4L		
BER	II	11 09 59 09.7–4.3	64.72N	30.47E	0	2.4L		
CSEM	II	11 09 59 09.6–.49	64.78N	30.12E	2	1.9L		
HEL	II	11 09 59 10.2–.30	64.76N	30.47E	0	1.9L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=7.0km s-min=4.0km az=27.6.
BER Event type sh. Error ellipse: s-maj=9.6km s-min=47.0km az=-1.0. Suspected explosion.
CSEM Event type km. Error ellipse: s-maj=11.1km s-min=5.7km az=113.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=5.0km az=-1.0. Explosion.

(366) Turkey

ISC	**II**	**11 10 16 31.4–.89**	**37.26N–.03**	**27.83E–.03**	**0**		**22**	**0-1**
CSEM	II	11 10 16 31.8–.51	37.26N	27.91E	1	2.4	¶16494428	
ISK	II	11 10 16 31.5	37.25N	27.82E	22	2.6		
ISCJB	II	11 10 16 32.9–.59	37.31N–.03	27.81E–.04	0	2.6		
DDA	II	11 10 16 33.5	37.38N	27.66E	7	2.4		

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=13.2km s-min=11.0km az=129.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=4.3km az=152.9.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC	**II**	**11 11 04 23.9–.70**	**51.60N–.02**	**16.05E–.02**	**0**		**157**	**1-19**
ISCJB	II	11 11 04 22.9–.32	51.55N–.02	16.05E–.02	0		¶16024702	
IPEC	II	11 11 04 24.7–.29	51.59N	16.15E	0	2.8L		
CSEM	II	11 11 04 24.7–.12	51.55N	16.05E	2	3.7L		
IDC	II	11 11 04 26.2–.79	51.51N	16.06E	0	3.7,3.6		
PRU	II	11 11 04 26.7	51.50N	16.02E	0	3.7,3.6		
BGR	II	11 11 04 26.8–.40	51.50N	16.03E	1	3.2L,3.6		
UPP	II	11 11 04 28.8–2.9	51.79N	15.62E	0	2.0L,3.6		
VIE	II	11 11 04 28.3–.36	51.27N	16.02E	0	3.1L,2.6b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.4km s-min=2.1km az=23.2.
IPEC Event type ki. Error ellipse: s-maj=3.4km s-min=1.7km az=66.0.
CSEM Event type ki. Error ellipse: s-maj=2.4km s-min=2.1km az=63.0.
IDC Error ellipse: s-maj=19.4km s-min=7.1km az=106.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=15.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=2.3km s-min=2.0km az=163.0. Suspected Mining induced.

(366) Turkey

ISC	**II**	**11 11 40 21.4–.81**	**39.86N–.02**	**30.05E–.02**	**0**		**47**	**0-1**
ISCJB	II	11 11 40 21.4–.39	39.86N–.02	30.06E–.03	0		¶16494434	
CSEM	II	11 11 40 21.4–.15	39.85N	30.05E	2	2.8		
DDA	II	11 11 40 21.2	39.85N	30.08E	7	2.8		
ISK	II	11 11 40 21.5	39.89N	29.96E	11	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.5km s-min=3.0km az=171.7.
CSEM Event type sm. Error ellipse: s-maj=3.1km s-min=2.7km az=177.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

ISC	**II**	**11 18 01 22.4–.73**	**67.05N–.03**	**20.93E–.03**	**0**		**95**	**1-8**
ISCJB	II	11 18 01 21.8–.35	67.03N–.02	20.96E–.08	0		¶16025505	
UPP	II	11 18 01 22.1–.20	67.09N	20.92E	0	1.8L		
HEL	II	11 18 01 22.9–.20	67.07N	20.85E	0	2.2L,1.8L		
CSEM	II	11 18 01 23.1–.25	67.10N	20.92E	2	1.8L,1.8L		
IDC	II	11 18 01 23.5–.93	67.13N	21.55E	0	2.8,2.7		
NAO	II	11 18 01 23.3–.90	67.08N	21.10E		2.5L,2.7		
BER	II	11 18 01 25.5–4.1	67.05N	20.97E	0	2.7,2.5L		
KOLA	II	11 18 01 34.0	67.53N	21.80E	0	2.7,2.5L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.4km s-min=3.2km az=24.2.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=1.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.1km s-min=5.6km az=116.0. Mining explosion.
IDC Error ellipse: s-maj=17.2km s-min=7.2km az=116.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=7.6km s-min=19.6km az=-1.0. Suspected explosion.
KOLA Event type km.

(548) Poland

ISC	**II**	**11 20 38 09.7–.79**	**50.12N–.04**	**19.02E–.02**	**0**		**51**	**0-4**
ISCJB	II	11 20 38 09.1–.48	50.17N–.03	18.98E–.03	0		¶16024704	
CSEM	II	11 20 38 09.7–.40	50.19N	19.02E	2	2.9L		
PRU	II	11 20 38 10.5	50.15N	19.00E	0	2.9L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.8km s-min=2.6km az=17.4.
CSEM Event type ki. Error ellipse: s-maj=9.2km s-min=4.6km az=13.0.
PRU Event type ki.

(460) Wyoming

ISC	**II**	**11 21 07 37.1–.59**	**43.62N–.02**	**105.29W–.02**	**0**		**134**	**1-62**
IDC	II	11 21 07 19.3–1.6	41.39N	104.89W	0	4.4b,3.9	¶601793043	
ISCJB	II	11 21 07 36.9–.19	43.59N–.02	105.36W–.02	0	4.7b,3.9		
NEIC	II	11 21 07 37.9–.43	43.63N	105.26W	0	3.4L,3.9		

ISC Event type sm.
IDC Error ellipse: s-maj=24.4km s-min=11.3km az=172.0.
ISCJB Event type fm. Error ellipse: s-maj=2.6km s-min=1.8km az=172.3.
NEIC Event type fm. Error ellipse: s-maj=6.0km s-min=5.1km az=37.0. 75 km [47 miles] SSE of Gillette. Suspected Mining explosion.

(536) Sweden

UPP	**II**	**12 00 36 08.1**	**67.84N**	**20.23E**	**0**	**0.9L**		
CSEM	II	12 00 36 06.9–.41	67.85N	20.41E	2	0.9L	¶602001503	
HEL	II	12 00 36 08.0	67.95N	20.02E	0	1.8L		

UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9.4km s-min=7.9km az=176.0. Mining explosion.
HEL Event type kh. Explosion.

(536) Sweden

UPP	**II**	**12 00 36 11.5**	**67.85N**	**20.19E**	**0**	**1.4L**		
CSEM	II	12 00 36 11.4–.60	67.91N	20.14E	1	1.4L	¶601778583	

UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=19.1km s-min=13.1km az=161.0. Mining explosion.

(548) Poland

ISC	**II**	**12 05 25 37.9–.83**	**51.55N–.03**	**16.21E–.03**	**0**		**66**	**1-19**
ISCJB	II	12 05 25 37.0–.53	51.54N–.02	16.17E–.05	0		¶16024710	
CSEM	II	12 05 25 39.0–.34	51.52N	16.14E	2	3.5L		
IDC	II	12 05 25 40.0–.86	51.47N	16.25E	0	3.2,3.1		
VIE	II	12 05 25 42.9–.52	51.26N	16.12E	0	3.0L,2.2b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.2km s-min=3.4km az=160.3.
CSEM Event type ki. Error ellipse: s-maj=6.6km s-min=5.0km az=85.0.
IDC Error ellipse: s-maj=17.8km s-min=7.3km az=107.0.
VIE Event type sr. Error ellipse: s-maj=3.5km s-min=2.8km az=0.0. Suspected Mining induced.

(329) Eastern Kazakhstan

ISC	**II**	**12 07 26 03.5–.79**	**50.00N–.04**	**78.62E–.07**	**0**		**37**	**1-13**
ISCJB	II	12 07 26 01.5–.52	49.96N–.02	78.47E–.06	0		¶16398053	
NNC	II	12 07 26 02.8–.27	50.01N	78.59E	1–3	3.6b,3.3		
IDC	II	12 07 26 04.1–.80	50.08N	78.82E	0	3.4,3.4		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.0km s-min=3.1km az=14.1.
NNC Event type sm. Error ellipse: s-maj=4.6km s-min=2.1km az=70.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=12.6km s-min=6.2km az=56.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**II**	**12 11 27 40.8–1.2**	**59.32N–.03**	**27.57E–.07**	**0**		**37**	**1-10**
ISCJB	II	12 11 27 40.2–.95	59.30N–.03	27.6E–.10	0		¶17192113	
CSEM	II	12 11 27 41.5–.70	59.30N	27.61E	2	1.8L		
HEL	II	12 11 27 41.6–.30	59.30N	27.64E	0	1.7L		
IDC	II	12 11 27 44.2–3.6	59.50N	27.60E	0	3.5,3.3		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=9.2km s-min=4.3km az=18.6.
CSEM Event type km. Error ellipse: s-maj=17.3km s-min=7.3km az=107.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=4.7km az=-1.0. Explosion.
IDC Error ellipse: s-maj=38.5km s-min=21.1km az=124.0.

(366) Turkey

ISC	**II**	**13 09 06 07.6–1.4**	**39.07N–.04**	**27.60E–.04**	**0**		**24**	**0-2**
ISCJB	II	13 09 06 06.0–1.1	39.10N–.06	27.56E–.06	0		¶16494488	
DDA	II	13 09 06 05.0	39.11N	27.53E	7	2.3		
ISK	II	13 09 06 06.5	39.03N	27.58E	5	2.8		
CSEM	II	13 09 06 07.1–.46	39.03N	27.58E	1	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=9.4km s-min=6.8km az=19.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=11.1km s-min=7.8km az=16.0. Suspected Mining explosion.

(534) North Sea

ISC	**II**	**13 19 29 02.1–2.7**	**58.35N–.03**	**1.78E–.03**	**29–22**	**3.7b**	**307**	**2-57**
CSEM	II	13 19 29 00.8–.13	58.33N	1.74E	15	3.6L	¶16022612	
BGS	II	13 19 29 00.9–1.2	58.41N	1.97E	10	3.5L		
IDC	II	13 19 29 00.2–1.4	58.51N	1.66E	0	3.7,3.7L		
LDG	II	13 19 29 01.3–.20	58.42N	1.27E	10	3.8L,3.7L		
NAO	II	13 19 29 01.1–3.7	58.43N	1.71E	19–24	2.9L,3.7L		
BER	II	13 19 29 02.6–2.5	58.44N	1.67E	8–7	3.5L,2.9L		
UPP	II	13 19 29 07.5–3.1	58.31N	2.65E	0	2.2L,2.9L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=130.0.
BGS Error ellipse: s-maj=3.3km s-min=12.3km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=19.8km az=159.0.
LDG Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=67.0.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=4.1km s-min=6.2km az=-1.0.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.5km az=-1.0. Suspected explosion.

(460) Wyoming

ISC	**II**	**13 21 10 59.3–.66**	**43.43N–.04**	**105.02W–.03**	**0**	**4.1b**	**54**	**1-90**
ISCJB	II	13 21 10 57.8–.42	43.40N–.03	105.01W–.04	0	4.2b	¶17192172	
IDC	II	13 21 10 59.6–2.0	43.39N	104.99W	0	4.0b,3.8		
NEIC	II	13 21 10 59.8–.52	43.39N	104.98W	0	3.2L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.6km s-min=3.9km az=172.9.
IDC Error ellipse: s-maj=56.1km s-min=12.6km az=149.0.
NEIC Event type fm. Error ellipse: s-maj=7.4km s-min=7.2km az=104.0. 78 km [48 miles] NNE of Douglas. Suspected Mining explosion.

(548) Poland

ISC	**II**	**13 23 21 39.8–1.3**	**51.46N–.06**	**16.20E–.03**	**0**		**57**	**1-4**
ISCJB	II	13 23 21 39.2–.90	51.43N–.04	16.11E–.05	0		¶16024744	
CSEM	II	13 23 21 39.9–.50	51.46N	16.18E	2	3.1L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.0km s-min=3.7km az=21.3.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=4.5km az=9.0.

(548) Poland

CSEM	**II**	**14 04 00 52.2–.59**	**51.42N**	**16.14E**	**2**	**3.2L**		
							¶16030238	

CSEM Event type ki. Error ellipse: s-maj=9.1km s-min=5.7km az=14.0.

(548) Poland

ISC	**II**	**14 05 10 48.0–.69**	**50.16N–.03**	**18.78E–.02**	**0**		**96**	**0-20**
ISCJB	II	14 05 10 46.6–.36	50.23N–.03	18.69E–.02	0		¶16030241	
IPEC	II	14 05 10 48.9–.32	50.16N	18.85E	2–2	2.3L		
CSEM	II	14 05 10 48.0–.35	50.24N	18.71E	2	3.2L		
IDC	II	14 05 10 50.7–1.7	50.31N	18.62E	0	3.8,3.8		
VIE	II	14 05 10 52.2–.71	49.70N	18.73E	1–2	2.5L,2.1b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.3km s-min=1.9km az=8.7.
IPEC Event type ki. Error ellipse: s-maj=9.4km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=9.2km s-min=3.8km az=10.0.
IDC Error ellipse: s-maj=34.3km s-min=10.4km az=132.0.
VIE Event type sr. Error ellipse: s-maj=4.5km s-min=2.8km az=106.0. Suspected Mining induced.

(713) Central Kazakhstan

ISC II 14 09 12 21.8–1.1 48.31N–.08 70.27E–.06 0 18 1-69
ISCJB II 14 09 12 20.9–1.0 48.41N–.07 70.30E–.09 0 3.4b ¶16398170
NNC II 14 09 12 21.9–1.3 48.40N 70.26E 0 3.3b,3.0
IDC II 14 09 12 24.2–2.1 48.45N 70.45E 0 3.2,3.2b
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=11.1km s-min=6.3km az=37.0.
NNC Event type sm. Error ellipse: s-maj=15.0km s-min=6.0km az=24.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=25.9km s-min=10.6km az=46.0.

(723) Finland-Karelia border region

ISC II 14 09 59 21.9–1.3 64.75N–.03 30.73E–.07 0 66 1-10
ISCJB II 14 09 59 21.5–.84 64.75N–.03 30.6E–.10 0 ¶17192236
IDC II 14 09 59 21.4–3.0 64.67N 31.45E 0 3.0,2.9
CSEM II 14 09 59 22.9 64.74N 30.75E 0 1.6L,2.9
HEL II 14 09 59 22.9–.20 64.74N 30.75E 0 1.6L,2.9
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=8.3km s-min=3.3km az=11.9.
IDC Error ellipse: s-maj=44.2km s-min=9.9km az=100.0.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.7km s-min=1.5km az=-1.0. Explosion.

(366) Turkey

CSEM II 14 10 50 18.0–.28 40.17N 29.85E 1 2.2
DDA II 14 10 50 16.9 40.23N 29.88E 7 2.4 ¶16494511
ISK II 14 10 50 18.2 40.22N 29.81E 3 2.2
CSEM Event type sm. Error ellipse: s-maj=7.4km s-min=5.2km az=39.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(543) Germany

ISC II 14 12 43 10.9–.84 50.30N–.01 7.76E–.01 6–5 4.1b 989 0-131
BJI II 14 12 43 07.8 50.14N 7.47E 10 4.9b,4.9b ¶602001594
MOS II 14 12 43 09.4–1.2 50.31N 7.69E 10 4.3b,4.9b
IDC II 14 12 43 10.7–.82 50.32N 7.58E 0 4.2L,4.0
CSEM II 14 12 43 11.4–.08 50.29N 7.70E 8 4.8L,4.1b
UCC II 14 12 43 11.6–.42 50.28N 7.81E 0–1 4.1L,4.1b
LDG II 14 12 43 11.7–.07 50.36N 7.85E 15 4.8L,4.3
BNS II 14 12 43 12.8–.58 50.34N 7.86E 10–4 4.4L,4.3
NEIC II 14 12 43 12.7 50.34N 7.84E 12 4.5L,4.4L
BGR II 14 12 43 12.4–.17 50.37N 7.89E 10 4.5L,4.4L
BUG II 14 12 43 13.5 50.43N 7.66E 1 4.4L,4.4L
PRU II 14 12 43 14.3 50.40N 8.07E 11 4.4L,4.4L
STR II 14 12 43 15.0–.17 50.16N 7.65E 10 4.7L,4.4L
ISC Event type ke.
MOS Error ellipse: s-maj=4.8km s-min=3.4km az=64.5.
IDC Error ellipse: s-maj=14.2km s-min=10.1km az=68.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=146.0.
UCC Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=145.0.
BNS Event type ke.
NEIC Event type fe. Felt [V] in the Elz-Niederelbert area and [III] at Koblenz and Limburg. Felt widely in Hessen and Rheinland-Pfalz and in parts of Baden-Wurttemberg, Nordrhein-Westfalen and Saarland. Also felt in Luxembourg and in the Metz-Nancy area, France. After LEDBW. Moment Tensor Solution. s13 Moment tensor: Scale 10^{14}Nm; M_{rr}-8.44 $M_{\theta\theta}$8.62 $M_{\phi\phi}$-0.18 $M_{r\theta}$-1.07 $M_{\theta\phi}$-3.25 $M_{\phi r}$-3.29 Best double couple: NP1:ϕ_s309.00000° ,δ49.00000°,λ-60.00000°. NP2:ϕ_s88.00000°,δ49.00000°,λ-120.00000°. Principal axes: T 9.6900,Plg0.0000°,Azm18.0000°; N 0.1400,Plg22.0000°,Azm108.0000° ; P -9.8300,Plg68.0000°,Azm288.0000° M_o9.80000×10^{14}
BGR Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=23.0.
BUG Event type ki.
STR Event type ke.

(548) Poland

ISC II 15 02 03 31.5–.73 50.19N–.03 18.65E–.01 0 98 0-6
ISCJB II 15 02 03 30.1–.37 50.25N–.03 18.60E–.02 0 ¶16030254
IPEC II 15 02 03 30.8–.57 50.34N 18.62E 5–2 2.0L
CSEM II 15 02 03 31.5–.28 50.24N 18.61E 2 3.0L
VIE II 15 02 03 33.9–1.4 49.66N 18.76E 0 2.4L,2.0b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.3km s-min=1.9km az=10.9.
IPEC Event type ki. Error ellipse: s-maj=9.2km s-min=1.2km az=158.0.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=3.0km az=13.0.
VIE Event type sr. Error ellipse: s-maj=9.5km s-min=7.3km az=111.0. Suspected Mining induced.

(366) Turkey

ISC II 15 08 50 50.6–.80 39.66N–.02 29.42E–.03 0 43 0-2
DDA II 15 08 50 49.5 39.71N 29.40E 7 2.7 ¶16494527
ISCJB II 15 08 50 50.5–.46 39.67N–.02 29.40E–.04 0 2.7
CSEM II 15 08 50 50.4–.24 39.67N 29.40E 2 2.1L
ISK II 15 08 50 50.0 39.64N 29.27E 8 2.1L
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.3km az=11.5.
CSEM Event type sm. Error ellipse: s-maj=5.6km s-min=4.2km az=101.0. Suspected Mining explosion.

(713) Central Kazakhstan

NNC II 15 08 51 27.9–1.3 53.50N 69.56E 0 1.9 ¶16524955
NNC Event type sm. Error ellipse: s-maj=7.3km s-min=3.2km az=100.0. Suspected Mining explosion.

(723) Finland-Karelia border region

ISC II 15 10 28 32.9–1.1 64.83N–.03 30.38E–.05 0 65 1-10
ISCJB II 15 10 28 31.5–.77 64.79N–.03 30.6E–.10 0 ¶16056923
KOLA II 15 10 28 31.7 64.77N 30.05E 0
CSEM II 15 10 28 32.8–.51 64.79N 30.62E 1 2.2L
IDC II 15 10 28 33.1–2.4 64.74N 30.91E 0 3.2,3.1
NAO II 15 10 28 34.3–1.3 64.82N 30.36E 2.5L,3.1
BER II 15 10 28 35.1–4.5 64.80N 30.24E 0 2.5L,3.1
HEL II 15 10 28 35.7–.40 64.83N 30.35E 0 2.2L,3.1
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=7.6km s-min=4.1km az=23.5.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=12.5km s-min=5.4km az=109.0. Mining explosion.
IDC Error ellipse: s-maj=35.1km s-min=8.2km az=102.0.
BER Event type sh. Error ellipse: s-maj=8.7km s-min=39.9km az=-1.0. Suspected explosion.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0. Explosion.

(713) Central Kazakhstan

ISC II 15 12 54 37.0–1.3 43.26N–.08 71.34E–.04 0 29 0-2
SOME II 15 12 54 36.7 43.25N 71.38E 0 ¶16524981
ISCJB II 15 12 54 37.6–.78 43.22N–.06 71.40E–.03 0
NNC II 15 12 54 39.0–.23 42.97N 71.33E 0 2.8b,2.1
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.4km s-min=3.4km az=7.2.
NNC Event type sm. Error ellipse: s-maj=27.0km s-min=1.0km az=11.0. Suspected Mining explosion.

(548) Poland

ISC II 15 20 59 08.9–.82 51.53N–.03 16.05E–.02 0 80 1-4
ISCJB II 15 20 59 08.0–.56 51.47N–.03 16.06E–.03 0 ¶16030264
CSEM II 15 20 59 08.7–.31 51.51N 16.06E 1 3.2L
VIE II 15 20 59 14.4–1.6 51.18N 16.19E 0 2.7L,2.6b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.3km s-min=2.7km az=4.8.
CSEM Event type ki. Error ellipse: s-maj=5.2km s-min=4.7km az=17.0.
VIE Event type sr. Error ellipse: s-maj=10.9km s-min=10.0km az=113.0. Suspected Mining induced.

(366) Turkey

ISC II 16 10 21 22.7–.86 39.64N–.03 30.08E–.02 0 36 0-1
ISCJB II 16 10 21 22.3–.51 39.63N–.03 30.05E–.04 0 ¶16494551
CSEM II 16 10 21 22.6–.18 39.63N 30.05E 2 2.7
DDA II 16 10 21 22.7 39.63N 30.09E 3 2.7
ISK II 16 10 21 23.0 39.67N 29.98E 5 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.2km s-min=3.4km az=145.9.
CSEM Event type sm. Error ellipse: s-maj=4.2km s-min=3.0km az=161.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC II 16 13 33 27.1–.81 50.09N–.04 18.43E–.02 0 53 0-3
ISCJB II 16 13 33 25.9–.57 50.11N–.04 18.38E–.03 0 ¶16030277
CSEM II 16 13 33 26.8–.28 50.09N 18.41E 1 2.5L
IPEC II 16 13 33 27.3–.17 50.07N 18.47E 2–2 1.6L
PRU II 16 13 33 28.5 50.06N 18.36E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.9km az=12.3.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=3.3km az=12.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
PRU Event type ki.

(366) Turkey

ISC II 16 15 22 24.7–.92 40.75N–.03 41.23E–.03 0 32 0-2
ISK II 16 15 22 23.8 40.75N 41.25E 4 2.7 ¶16494559
ISCJB II 16 15 22 24.3–.49 40.76N–.04 41.24E–.04 0 2.7
CSEM II 16 15 22 24.4–.17 40.75N 41.23E 1 2.6
DDA II 16 15 22 24.3 40.76N 41.25E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.4km s-min=3.3km az=146.3.
CSEM Event type sm. Error ellipse: s-maj=5.3km s-min=2.9km az=142.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 16 15 42 37.3–.99 37.22N–.03 28.17E–.03 0 26 0-1
DDA II 16 15 42 36.7 37.25N 28.24E 7 2.4 ¶16494560
ISK II 16 15 42 36.9 37.15N 28.16E 15 2.5
ISCJB II 16 15 42 37.2–.57 37.20N–.03 28.19E–.04 0 2.5
CSEM II 16 15 42 37.4–.26 37.20N 28.19E 1 2.5
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.7km s-min=4.0km az=40.7.
CSEM Event type sm. Error ellipse: s-maj=6.9km s-min=4.5km az=40.0. Suspected Mining explosion.

(460) Wyoming

ISC II 16 21 05 02.5–.76 44.00N–.04 105.27W–.03 0 37 1-19
ISCJB II 16 21 05 00.9–.46 44.06N–.04 105.21W–.04 0 ¶17192384
NEIC II 16 21 05 02.5–.42 44.00N 105.20W 0 3.3L
IDC II 16 21 05 03.8–1.9 44.20N 105.73W 0 3.6,3.6L
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.4km s-min=4.5km az=7.9.
NEIC Event type fm. Error ellipse: s-maj=7.4km s-min=5.1km az=173.0. 40 km [25 miles] SE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=24.2km s-min=15.7km az=158.0.

(536) Sweden

ISC II 17 03 54 32.8–.79 67.82N–.02 20.28E–.03 0 74 0-10
ISCJB II 17 03 54 32.1–.48 67.80N–.03 20.31E–.09 0 ¶16056932
UPP II 17 03 54 33.2–.10 67.84N 20.21E 0 1.5L
HEL II 17 03 54 33.8–.00 67.85N 20.22E 0 1.5L
CSEM II 17 03 54 33.1–.13 67.83N 20.26E 2 1.5L
NAO II 17 03 54 33.6–1.1 67.84N 20.53E 2.4L
IDC II 17 03 54 34.0–1.2 67.80N 20.39E 0 3.0,2.9
BER II 17 03 54 35.7–3.7 67.85N 20.34E 0 2.7,2.4L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.1km s-min=3.9km az=24.1.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=0.5km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=3.4km s-min=2.6km az=120.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=8.9km az=113.0.
BER Event type sh. Error ellipse: s-maj=5.6km s-min=22.1km az=-1.0. Suspected explosion.

(329) Eastern Kazakhstan

ISC II 17 07 39 37.7–.86 49.94N–.02 78.63E–.06 0 36 1-8
SOME II 17 07 39 36.0 49.93N 78.65E 5 ¶16529471
NNC II 17 07 39 41.0–.43 50.04N 78.66E 0 3.3b,3.1
ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=7.0km s-min=2.2km az=80.0. Suspected Mining explosion.

(723) Finland-Karelia border region

ISC II 17 09 59 01.2–1.0 64.70N–.03 30.43E–.05 0 52 1-9
ISCJB II 17 09 58 59.0–.72 64.74N–.03 30.14E–.10 0 ¶17192409
CSEM II 17 09 58 59.8 64.69N 30.78E 0 2.3L
HEL II 17 09 58 59.8–.30 64.69N 30.78E 0 2.3L
IDC II 17 09 58 59.7–2.8 64.57N 31.27E 0 2.9,2.8
KOLA II 17 09 59 00.6 64.70N 30.34E 0 2.9,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.9km s-min=3.8km az=33.2.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=4.3km az=-1.0. Explosion.
IDC Error ellipse: s-maj=38.5km s-min=10.0km az=103.0.
KOLA Event type km.

(366) Turkey

ISC II 17 14 25 53.1–.77 39.59N–.02 33.23E–.02 0 63 0-2
ISCJB II 17 14 25 52.9–.36 39.58N–.03 33.23E–.03 0 ¶16494586
CSEM II 17 14 25 52.8–.14 39.58N 33.22E 1 2.8
ISK II 17 14 25 52.6 39.58N 33.24E 9 2.7
DDA II 17 14 25 53.2 39.56N 33.23E 1 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.0km az=144.7.
CSEM Event type sm. Error ellipse: s-maj=3.4km s-min=2.9km az=128.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 17 14 35 57.6–1.2 37.24N–.03 28.18E–.03 0 23 0-1
ISK II 17 14 35 56.5 37.27N 28.18E 5 2.9 ¶16494588
ISCJB II 17 14 35 57.4–.68 37.25N–.04 28.19E–.05 0 2.9
CSEM II 17 14 35 57.4–.30 37.26N 28.20E 1 2.9
DDA II 17 14 35 57.4 37.25N 28.21E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.6km s-min=3.9km az=40.0.
CSEM Event type sm. Error ellipse: s-maj=7.0km s-min=4.7km az=44.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC II 17 18 04 33.1–1.1 44.08N–.09 105.35W–.06 0 13 1-9
ISCJB II 17 18 04 32.3–.73 44.15N–.07 105.40W–.08 0 ¶17192438
IDC II 17 18 04 33.0–1.8 44.06N 105.55W 0 3.4,3.2
NEIC II 17 18 04 33.8–.74 44.11N 105.33W 0 2.7L,3.2
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=11.0km s-min=8.0km az=158.4.
IDC Error ellipse: s-maj=58.5km s-min=8.6km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=13.9km s-min=8.6km az=140.0. 23 km [14 miles] SE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC II 17 18 18 42.0–1.1 43.96N–.08 105.21W–.05 0 12 1-10
IDC II 17 18 18 40.1–2.2 43.71N 105.28W 0 3.4,3.2 ¶17192439
NEIC II 17 18 18 44.1–1.2 43.34N 104.59W 0 3.0L,3.2
ISC Event type sm.
IDC Error ellipse: s-maj=58.9km s-min=8.7km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=20.4km s-min=9.7km az=115.0. 65 km [40 miles] SSW of Newcastle. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 17 22 19 60.0–2.1 67.78N–.04 33.7E–.10 0 43 0-7
NAO II 17 22 20 01.0–1.3 67.69N 33.65E 2.2L ¶602734474
HEL II 17 22 20 01.0–.40 67.76N 33.71E 0 1.1L
CSEM II 17 22 20 01.2–.68 67.75N 33.57E 2 2.2L
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.6km s-min=2.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=14.2km s-min=5.9km az=81.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 17 22 20 50.9–.79 16.44N–.03 120.43E–.05 33–4 4.5b,4.2s 169 0-98

MAN II 17 22 20 46 16.45N 120.48E 14 5.5b,5.0s ¶16056947
IDC II 17 22 20 49.6–4.9 16.43N 120.77E 40–45 4.1s,4.1
MOS II 17 22 20 49.4–1.6 16.28N 120.63E 47 4.8b,4.1
ISCJB II 17 22 20 49.9–.42 16.49N–.02 120.41E–.03 34–4 4.4b,4.2s
NEIC II 17 22 20 54.5–.67 16.54N 120.45E 68–6 4.6b,4.2s
BJI II 17 22 20 57.1 16.87N 120.17E 63 4.7b,4.5s
BKK II 17 22 21 40.8–2.7 19N–14 117E–19 221–20 5.5b,5.0
ISC Event type fe.
MAN Event type fe. INTENSITY IV - BAGUIO CITY; INTENSITY III - SAN FERNANDO LA UNION; INTENSITY II - BURGOS ILOCOS SUR.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV PIVS] at Baguio, [III PIVS] at San Fernando and [II PIVS] at Burgos. Also felt at Aringay, La Trinidad, Naguilian, San Juan, Sison and Tarlac.

(548) Poland

ISC II 17 22 51 11.8–1.0 51.51N–.04 16.08E–.02 0 84 1-5
ISCJB II 17 22 51 10.5–.63 51.47N–.03 16.12E–.03 0 ¶16056951
CSEM II 17 22 51 11.5–.35 51.51N 16.10E 2 3.0L
VIE II 17 22 51 13.7–.79 51.35N 16.03E 0 2.4L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.4km s-min=2.7km az=8.7.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=3.5km az=177.0.
VIE Event type sr. Error ellipse: s-maj=4.7km s-min=2.7km az=28.0. Suspected Mining induced.

(543) Germany

ISC II 18 04 08 47.0–.78 51.46N–.02 6.52E–.02 0 150 0-6
ISCJB II 18 04 08 46.8–.38 51.50N–.02 6.53E–.03 0 ¶16158797
BGR II 18 04 08 47.9–.69 51.45N 6.61E 1 2.1L
BUG II 18 04 08 47.2 51.52N 6.60E 1 2.2L
CSEM II 18 04 08 47.2–.35 51.49N 6.51E 1 2.9L
LDG II 18 04 08 48.8–.21 51.47N 6.65E 2 2.9,2.8L
BNS II 18 04 08 49.2–.53 51.48N 6.65E 1 2.1L,2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.1km s-min=2.5km az=42.5.
BGR Event type ki. Error ellipse: s-maj=11.1km s-min=5.6km az=121.0.
BUG Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=5.4km az=147.0.
LDG Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=13.0.
BNS Event type ki.

(548) Poland

ISC II 18 04 26 43.5–.43 51.57N–.02 16.04E–.02 0 3.8b 484 1-84
ISCJB II 18 04 26 42.5–.19 51.54N–.01 16.09E–.02 0 4.0s,3.8b ¶16032021
MOS II 18 04 26 42.9–1.5 51.66N 15.85E 10 4.3b,3.8b
NEIC II 18 04 26 44.0–.30 51.63N 15.91E 5 4.0b,3.8b
LDG II 18 04 26 43.5–.11 51.60N 16.13E 1 4.1L,3.8b
IDC II 18 04 26 45.0–.56 51.53N 15.97E 0 4.8,4.8s
CSEM II 18 04 26 44.4–.10 51.56N 16.07E 0 4.3L,3.9s
IPEC II 18 04 26 44.3–.42 51.58N 16.17E 0–2 3.5L,3.9s
BGR II 18 04 26 45.6–.48 51.50N 16.10E 1 3.8L,3.9s
PRU II 18 04 26 46.0 51.53N 16.06E 0 4.0,3.9s
VIE II 18 04 26 48.6–.74 51.30N 15.88E 0 3.9s,3.4L
UPP II 18 04 26 48.6–3.1 51.72N 15.17E 0 2.1L,3.4L
BNS II 18 04 26 51.3–.69 51.64N 15.62E 10 3.4L,3.4L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.9km s-min=1.6km az=11.3.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=77.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.9km az=158.0.
LDG Event type sr. Error ellipse: s-maj=2.9km s-min=1.5km az=3.0. Suspected Mining induced.
IDC Error ellipse: s-maj=10.1km s-min=6.7km az=103.0.
CSEM Event type ki. Error ellipse: s-maj=2.3km s-min=1.9km az=2.0.
IPEC Event type ki. Error ellipse: s-maj=4.3km s-min=1.9km az=54.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=33.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=4.7km s-min=4.2km az=16.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0. Suspected explosion.
BNS Event type ke.

(366) Turkey

ISC II 18 08 46 22.8–.96 40.24N–.04 36.47E–.04 0 22 0-1
ISCJB II 18 08 46 22.6–.86 40.27N–.05 36.46E–.05 0 ¶16494598
CSEM II 18 08 46 22.5–.46 40.28N 36.49E 1 2.3
DDA II 18 08 46 22.4 40.28N 36.49E 7 2.3
ISK II 18 08 46 26.1 39.92N 36.49E 13 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.6km s-min=4.9km az=155.7.
CSEM Event type sm. Error ellipse: s-maj=10.4km s-min=7.8km az=168.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(326) Southwestern Siberia

IDC II 18 10 11 11.0–1.3 51.37N 81.87E 0 2.2,2.2 ¶16398470
IDC Error ellipse: s-maj=14.5km s-min=11.0km az=140.0.

(366) Turkey

DDA II 18 10 21 07.5 37.33N 27.76E 7 2.2 ¶601609729
DDA Event type sm. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 18 10 53 55.7–1.7 67.66N–.04 34.00E–.09 0 58 0-12
HEL II 18 10 53 56.9–.30 67.70N 34.00E 0 2.2L ¶602001824
ISCJB II 18 10 53 57.6–1.1 67.70N–.04 33.5E–.20 0 2.2L
CSEM II 18 10 53 57.3–.86 67.65N 33.74E 2 2.5L
NAO II 18 10 53 57.4–1.4 67.62N 33.90E 2.5L
IDC II 18 10 53 59.5–1.8 67.63N 33.65E 0 3.3,3.3
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.7km s-min=5.5km az=-1.0. Explosion.
ISCJB Event type km. Error ellipse: s-maj=9.0km s-min=5.0km az=169.3.
CSEM Event type km. Error ellipse: s-maj=16.2km s-min=9.4km az=105.0. Mining explosion.
IDC Error ellipse: s-maj=19.1km s-min=9.9km az=83.0.

(724) Baltic States-Belarus-Northwestern Russia

HEL II 18 10 54 53.5–.20 59.23N 27.73E 0 2.0L
CSEM II 18 10 54 54.0–.85 59.31N 27.72E 2 1.8L ¶601778718
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=16.1km s-min=8.5km az=114.0. Mining explosion.

(366) Turkey

ISC II 18 14 01 56.5–.89 41.34N–.03 35.82E–.02 0 42 0-2
ISK II 18 14 01 55.7 41.40N 35.90E 10 2.4 ¶16494618
ISCJB II 18 14 01 56.3–.50 41.37N–.03 35.82E–.04 0 2.4
CSEM II 18 14 01 56.4–.23 41.34N 35.81E 1 2.7
DDA II 18 14 01 58.2 41.19N 36.02E 8 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.5km az=139.8.
CSEM Event type sm. Error ellipse: s-maj=5.9km s-min=3.9km az=45.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 18 15 55 36.7–.92 37.94N–.03 36.02E–.05 0 27 0-2
ISK II 18 15 55 36.0 38.02N 36.00E 5 2.3 ¶16494623
ISCJB II 18 15 55 37.7–.67 37.97N–.03 36.05E–.06 0 2.3
CSEM II 18 15 55 37.7–.48 38.01N 36.01E 2 2.8
DDA II 18 15 55 37.3 37.97N 36.13E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.8km s-min=3.6km az=4.9.
CSEM Event type sm. Error ellipse: s-maj=13.6km s-min=7.3km az=91.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC II 18 18 55 35.5–.78 50.10N–.03 18.41E–.02 0 56 0-3
ISCJB II 18 18 55 34.6–.47 50.12N–.03 18.36E–.03 0 ¶16056967
IPEC II 18 18 55 35.3–.17 50.05N 18.48E 0–2 1.8L
CSEM II 18 18 55 35.0–.31 50.12N 18.38E 1 2.7L
PRU II 18 18 55 36.9 50.08N 18.33E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.5km az=14.3.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=7.0km s-min=3.7km az=13.0.
PRU Event type ki.

(329) Eastern Kazakhstan

ISC II 19 08 03 09.3–.70 49.98N–.02 78.82E–.03 0 50 1-9
ISCJB II 19 08 03 08.6–.50 50.00N–.02 78.66E–.05 0 ¶16398536
NNC II 19 08 03 08.9–.47 50.02N 78.79E 0 3.3b,3.1
SOME II 19 08 03 09.1 49.95N 78.70E 0 3.3b,3.1
IDC II 19 08 03 10.4–.83 50.09N 78.84E 0 3.1,3.1
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=3.2km az=177.7.
NNC Event type sm. Error ellipse: s-maj=6.6km s-min=2.3km az=82.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=10.0km s-min=6.0km az=56.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 20 06 02 49.4–1.2 67.67N–.03 33.44E–.06 0 104 0-12
HEL II 20 06 02 46.8–.50 67.68N 34.01E 0 2.6L ¶16158814
ISCJB II 20 06 02 47.3–.90 67.74N–.03 33.6E–.10 0 2.6L
KOLA II 20 06 02 48.2 67.67N 33.79E 0 2.6L
CSEM II 20 06 02 48.7–.55 67.59N 33.43E 1 3.0L
NAO II 20 06 02 48.4–1.2 67.59N 33.77E 3.0L
IDC II 20 06 02 52.2–2.2 67.66N 33.13E 0 3.3,3.2
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=2.5km s-min=8.1km az=-1.0. Explosion.
ISCJB Event type km. Error ellipse: s-maj=7.4km s-min=3.7km az=175.2.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=11.1km s-min=6.7km az=83.0. Mining explosion.
IDC Error ellipse: s-maj=22.0km s-min=9.4km az=78.0.

(547) Czech and Slovak Republics

ISC II 21 00 52 47.2–.74 49.81N–.03 18.51E–.02 0 68 0-4
ISCJB II 21 00 52 46.1–.39 49.82N–.03 18.44E–.03 0 ¶16154782
IPEC II 21 00 52 47.3–.18 49.83N 18.59E 2–4 2.0L
CSEM II 21 00 52 47.3–.19 49.81N 18.49E 2 2.8L
VIE II 21 00 52 48.5–.72 49.63N 18.42E 0 2.6L,1.9b
PRU II 21 00 52 48.3 49.80N 18.47E 0 2.6L,1.9b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.4km s-min=2.2km az=15.2.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.1km s-min=2.5km az=13.0.
VIE Event type sr. Error ellipse: s-maj=4.6km s-min=2.2km az=103.0. Suspected Mining induced.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 21 10 54 09.1–.77 59.33N–.02 27.01E–.03 0 77 1-10
ISCJB II 21 10 54 08.8–.54 59.32N–.02 27.11E–.07 0 ¶16158819
CSEM II 21 10 54 10.1–.39 59.33N 27.03E 2 2.1L
BER II 21 10 54 10.6–2.6 59.34N 27.05E 0 2.4L
NAO II 21 10 54 10.1–1.1 59.32N 27.01E 2.4L
IDC II 21 10 54 11.2–1.1 59.43N 27.20E 0 3.2,3.2
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.9km s-min=3.1km az=15.7.
CSEM Event type km. Error ellipse: s-maj=7.8km s-min=5.5km az=113.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=4.8km s-min=18.7km az=-1.0. Suspected explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=9.9km az=86.0.

(366) Turkey

ISC II 21 14 24 48.9–.83 39.89N–.02 33.08E–.03 0 43 0-2
ISCJB II 21 14 24 48.9–.46 39.88N–.03 33.08E–.04 0 ¶16494706
CSEM II 21 14 24 48.7–.26 39.89N 33.09E 1 2.4
ISK II 21 14 24 48.3 39.90N 33.09E 8 2.4
DDA II 21 14 24 49.3 39.87N 33.07E 7 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.7km s-min=3.7km az=14.4.
CSEM Event type sm. Error ellipse: s-maj=5.8km s-min=5.2km az=90.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 21 14 45 42.6–.88 39.23N–.02 29.33E–.03 0 38 0-2
ISCJB II 21 14 45 42.4–.45 39.22N–.02 29.32E–.05 0 ¶16494708
CSEM II 21 14 45 42.6–.14 39.22N 29.34E 1 2.4
DDA II 21 14 45 42.6 39.21N 29.33E 7 2.4
ISK II 21 14 45 42.4 39.22N 29.31E 8 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=3.3km az=18.3.
CSEM Event type sm. Error ellipse: s-maj=4.5km s-min=2.5km az=107.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC II 21 15 31 00.6–.76 39.68N–.02 29.47E–.02 0 58 0-2
ISK II 21 15 30 59.6 39.61N 29.66E 19 2.7 ¶16494709
ISCJB II 21 15 31 00.7–.38 39.69N–.02 29.46E–.04 0 2.7
CSEM II 21 15 31 00.7–.21 39.68N 29.49E 1 2.7
DDA II 21 15 31 00.5 39.68N 29.43E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=3.0km az=14.7.
CSEM Event type sm. Error ellipse: s-maj=5.2km s-min=4.1km az=103.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC II 21 16 32 15.5–.89 43.77N–.05 105.30W–.06 0 33 1-20
ISCJB II 21 16 32 13.9–.46 43.75N–.04 105.22W–.05 0 ¶17192642
IDC II 21 16 32 14.2–1.6 43.82N 105.47W 0 3.6,3.3
NEIC II 21 16 32 15.0–.36 43.80N 105.25W 0 3.0L,3.3
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.2km s-min=5.6km az=23.3.
IDC Error ellipse: s-maj=43.8km s-min=8.3km az=148.0.
NEIC Event type fm. Error ellipse: s-maj=5.3km s-min=4.9km az=149.0. 60 km [37 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC II 21 19 07 45.0–.71 43.61N–.04 105.25W–.03 0 60 1-62
IDC II 21 19 07 43.1–1.9 43.46N 105.21W 0 4.2b,3.9 ¶17192653
ISCJB II 21 19 07 44.8–.27 43.64N–.03 105.29W–.03 0 4.5b,3.3s
NEIC II 21 19 07 45.5–.54 43.68N 105.19W 0 3.3L,3.3s
ISC Event type sm.
IDC Error ellipse: s-maj=46.8km s-min=9.2km az=149.0.
ISCJB Event type fm. Error ellipse: s-maj=4.4km s-min=2.5km az=150.4.
NEIC Event type fm. Error ellipse: s-maj=9.2km s-min=6.5km az=134.0. 72 km [45 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC II 22 02 37 23.0–.84 51.49N–.04 16.18E–.03 0 51 1-4
ISCJB II 22 02 37 21.0–.53 51.51N–.02 16.21E–.04 0 ¶16154792
CSEM II 22 02 37 22.9–.25 51.50N 16.17E 1 3.1L
PRU II 22 02 37 25.3 51.40N 16.18E 0 4.7
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.8km s-min=3.3km az=145.9.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=3.8km az=83.0.
PRU Event type ki.

(548) Poland

ISC II 22 04 36 54.0–.46 51.56N–.02 16.14E–.02 0 3.9b 354 1-84
ISCJB II 22 04 36 51.6–.18 51.51N–.01 16.09E–.02 0 3.8b,3.1s ¶16057297
LDG II 22 04 36 53.5–.07 51.49N 16.20E 1 3.9L,3.1s
MOS II 22 04 36 53.4–.93 51.54N 16.15E 8 4.3b,3.1s
IPEC II 22 04 36 53.2–.30 51.54N 16.25E 0 3.4L,3.1s
CSEM II 22 04 36 53.6–.11 51.52N 16.14E 0 4.1L,4.1b
IDC II 22 04 36 54.5–.44 51.50N 16.09E 0 3.9,3.8b
PRU II 22 04 36 55.5 51.44N 16.15E 0 3.9,3.8b
BGR II 22 04 36 55.1–.50 51.41N 16.14E 1 3.6L,3.8b
VIE II 22 04 36 57.1–.40 51.22N 16.17E 0 3.8s,3.4L
STR II 22 04 36 59.8–.23 52.09N 15.28E 5 4.5L,3.4L
UPP II 22 04 36 59.0–3.1 51.81N 15.60E 0 2.9L,3.4L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.9km s-min=1.6km az=166.8.
LDG Event type sr. Error ellipse: s-maj=2.1km s-min=1.1km az=173.0. Suspected Mining induced.

MOS Error ellipse: s-maj=6.9km s-min=4.1km az=89.5.
IPEC Event type ki. Error ellipse: s-maj=3.3km s-min=1.7km az=67.0.
CSEM Event type ki. Error ellipse: s-maj=2.5km s-min=2.3km az=174.0.
IDC Error ellipse: s-maj=8.9km s-min=5.0km az=99.0.
PRU Event type ki. Felt In Harrachov.
BGR Event type ki. Error ellipse: s-maj=8.9km s-min=3.3km az=15.0.
VIE Event type sr. Error ellipse: s-maj=2.6km s-min=1.7km az=177.0. Suspected Mining induced.
STR Event type ke.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(366) Turkey

ISC	**II**	**22 10 28 27.2–.88**	**40.45N–.02**	**37.04E–.02**	**0**		**46**	**0-2**
ISCJB	II	22 10 28 27.4–.49	40.46N–.03	37.01E–.03	0			**¶16494743**
ISK	II	22 10 28 27.2	40.46N	37.03E	16	2.6		
DDA	II	22 10 28 27.9	40.45N	37.02E	7	2.7		
CSEM	II	22 10 28 27.4–.30	40.46N	37.01E	1	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.8km az=146.6.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.1km s-min=5.2km az=154.0. Suspected Mining explosion.

(548) Poland

PRU	**II**	**22 14 06 04.4**	**50.07N**	**18.40E**	**0**			
CSEM	II	22 14 06 03.2–.18	50.12N	18.40E	1			**¶16154798**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.6km s-min=2.3km az=3.0.

(366) Turkey

ISC	**II**	**22 14 17 39.1–.80**	**41.01N–.02**	**36.04E–.03**	**0**		**41**	**0-2**
ISK	II	22 14 17 38.5	41.02N	36.08E	4	2.5		**¶16494759**
ISCJB	II	22 14 17 39.2–.46	41.01N–.03	36.05E–.04	0	2.5		
CSEM	II	22 14 17 39.1–.22	41.00N	36.04E	1	2.5		
DDA	II	22 14 17 39.3	41.01N	36.09E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.3km az=143.5.
CSEM Event type sm. Error ellipse: s-maj=6.0km s-min=4.2km az=49.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC	**II**	**22 20 35 46.3–.73**	**43.78N–.03**	**105.30W–.03**	**0**		**70**	**1-90**
ISCJB	II	22 20 35 45.7–.27	43.77N–.02	105.33W–.03	0	3.7b		**¶17192727**
IDC	II	22 20 35 45.9–1.7	43.77N	105.41W	0	3.7b,3.5		
NEIC	II	22 20 35 46.2–.40	43.79N	105.26W	0	3.1L,3.5		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.7km s-min=2.3km az=154.4.
IDC Error ellipse: s-maj=46.9km s-min=8.6km az=148.0.
NEIC Event type fm. Error ellipse: s-maj=6.2km s-min=5.5km az=156.0. 59 km [37 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC	**II**	**23 01 13 52.9–.82**	**50.08N–.04**	**19.11E–.02**	**0**		**57**	**0-4**
ISCJB	II	23 01 13 51.7–.49	50.14N–.04	19.02E–.03	0			**¶16154809**
CSEM	II	23 01 13 52.7–.31	50.18N	19.11E	1	3.0L		
PRU	II	23 01 13 54.2	50.14N	19.07E	0	3.0L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.7km s-min=2.3km az=20.6.
CSEM Event type ki. Error ellipse: s-maj=9.7km s-min=3.6km az=7.0.
PRU Event type ki.

(713) Central Kazakhstan

NNC	**II**	**23 08 05 13.8–1.8**	**48.60N**	**70.63E**	**0**	**3.6b,3.1**		
								¶16544987

NNC Event type sm. Error ellipse: s-maj=18.2km s-min=4.6km az=44.0. Suspected Mining explosion.

(374) Jordan-Syria region

ISC	**II**	**23 08 39 39.6–1.9**	**36.45N–.08**	**36.86E–.09**	**0**		**9**	**0-1**
ISCJB	II	23 08 39 37.4–1.9	36.40N–.07	37.0E–.10	0			**¶601609885**
DDA	II	23 08 39 38.1	36.29N	36.96E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=15.8km s-min=6.1km az=35.7.
DDA Event type sm. Suspected Mining explosion.

(374) Jordan-Syria region

ISC	**II**	**23 09 08 24.6–.91**	**36.27N–.03**	**37.06E–.04**	**0**		**33**	**0-3**
ISCJB	II	23 09 08 24.3–.65	36.29N–.02	37.05E–.05	0			**¶601609887**
CSEM	II	23 09 08 25.4–.29	36.31N	37.00E	1	1.9L		
DDA	II	23 09 08 25.9	36.36N	36.97E	7	2.8		
NSSC	II	23 09 08 26.8–1.2	36.32N	36.97E	17–12	1.9L,1.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=3.4km az=9.9.
CSEM Event type sm. Error ellipse: s-maj=6.5km s-min=4.9km az=111.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
NSSC Error ellipse: s-maj=10.9km s-min=5.7km az=-1.0.

(366) Turkey

DDA	**II**	**23 09 46 24.5**	**39.65N**	**30.06E**	**7**	**2.1**		
								¶601609889

DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**II**	**23 14 14 56.6–.86**	**40.12N–.02**	**29.42E–.02**	**0**		**45**	**0-2**
ISK	II	23 14 14 55.3	40.14N	29.44E	20	2.5		**¶16494815**
ISCJB	II	23 14 14 56.7–.42	40.15N–.02	29.45E–.03	0	2.5		
CSEM	II	23 14 14 56.5–.26	40.16N	29.44E	1	2.5		
DDA	II	23 14 14 56.8	40.13N	29.46E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.9km s-min=3.3km az=37.0.
CSEM Event type sm. Error ellipse: s-maj=5.8km s-min=4.9km az=116.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

ISC	**II**	**23 18 00 07.5–.68**	**67.18N–.02**	**20.70E–.02**	**0**		**118**	**0-8**
ISCJB	II	23 18 00 06.6–.35	67.13N–.02	20.81E–.06	0			**¶16158851**
CSEM	II	23 18 00 07.5–.21	67.16N	20.72E	2	2.0L		
UPP	II	23 18 00 07.5–.10	67.18N	20.66E	0	2.1L		
IDC	II	23 18 00 08.4–.83	67.15N	20.97E	0	2.9,2.9		
HEL	II	23 18 00 08.2–.10	67.18N	20.64E	0	2.1L,2.0L		
NAO	II	23 18 00 08.2–.90	67.16N	20.95E		2.5L,2.0L		
BER	II	23 18 00 10.2–4.5	67.16N	20.73E	0	2.5L,2.0L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.4km s-min=3.2km az=151.6.
CSEM Event type km. Error ellipse: s-maj=4.9km s-min=4.2km az=87.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=14.4km s-min=6.2km az=117.0.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=6.4km s-min=18.7km az=-1.0. Suspected explosion.

(548) Poland

PRU	**II**	**24 04 54 42.2**	**51.53N**	**16.09E**	**0**			
								¶16168104

PRU Event type ki.

(329) Eastern Kazakhstan

NNC	**II**	**24 07 43 54.0–.37**	**50.02N**	**78.79E**	**0**	**3.6b,3.3**		
								¶16545037

NNC Event type sm. Error ellipse: s-maj=6.0km s-min=1.9km az=80.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

VIE	**II**	**24 15 04 03.5–.22**	**49.22N**	**14.90E**	**0**	**2.5L,1.9b**		
								¶601241542

VIE Event type sm. Error ellipse: s-maj=1.9km s-min=1.3km az=2.0. Suspected Mining explosion.

(723) Finland-Karelia border region

ISC	**II**	**25 10 00 31.7–.92**	**64.74N–.03**	**30.61E–.04**	**0**		**71**	**1-9**
ISCJB	II	25 10 00 30.7–.49	64.69N–.02	30.42E–.08	0			**¶16172989**
HEL	II	25 10 00 31.6	64.67N	30.66E	0	2.1L		
NAO	II	25 10 00 31.1–.90	64.65N	31.11E		2.1L		
IDC	II	25 10 00 32.5–3.2	64.61N	30.78E	0	2.8,2.8		
CSEM	II	25 10 00 32.1–.53	64.68N	30.37E	2	2.1L,2.8		
KOLA	II	25 10 00 32.5	64.75N	30.13E	0	2.1L,2.8		
BER	II	25 10 00 33.5–3.8	64.71N	30.47E	0	2.1L,2.8		
UPP	II	25 10 00 33.5	64.72N	30.56E	0	1.5L,2.8		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.1km s-min=3.4km az=7.3.
HEL Event type kh. Explosion.
IDC Error ellipse: s-maj=50.4km s-min=9.0km az=103.0.
CSEM Event type km. Error ellipse: s-maj=14.4km s-min=7.4km az=96.0. Mining explosion.
KOLA Event type km.
BER Event type sh. Error ellipse: s-maj=9.6km s-min=45.0km az=-1.0. Suspected explosion.
UPP Event type sm. Suspected Mining explosion.

(336) Western Kazakhstan

IDC	**II**	**25 11 54 52.0–4.5**	**52.99N**	**62.86E**	**0**	**2.9,2.9**		
								¶16398905

IDC Error ellipse: s-maj=55.0km s-min=35.4km az=169.0.

(366) Turkey

ISC	**II**	**25 13 20 40.3–.86**	**40.67N–.03**	**35.72E–.03**	**0**		**35**	**0-2**
DDA	II	25 13 20 40.0	40.70N	35.71E	7	2.7		**¶16494870**
ISCJB	II	25 13 20 40.0–.51	40.69N–.03	35.75E–.04	0	2.7		
CSEM	II	25 13 20 40.0–.21	40.68N	35.74E	2	2.7		
ISK	II	25 13 20 40.1	40.74N	35.68E	13	2.7		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.2km s-min=3.6km az=32.2.
CSEM Event type sm. Error ellipse: s-maj=5.4km s-min=3.7km az=114.0. Suspected Mining explosion.

(536) Sweden

ISC	**II**	**25 18 01 49.7–.77**	**67.07N–.03**	**20.89E–.03**	**0**		**83**	**1-8**
ISCJB	II	25 18 01 48.8–.36	67.08N–.02	20.92E–.09	0			**¶17192855**
CSEM	II	25 18 01 49.7–.22	67.08N	20.99E	2	1.8L		
UPP	II	25 18 01 49.7–.10	67.07N	20.92E	0	1.8L		
HEL	II	25 18 01 50.4–.10	67.07N	20.92E	0	2.1L,1.8L		
IDC	II	25 18 01 50.7–.91	67.05N	21.34E	0	2.9,2.9		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.1km s-min=2.8km az=8.5.
CSEM Event type km. Error ellipse: s-maj=5.7km s-min=4.1km az=90.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.8km az=-1.0. Explosion.
IDC Error ellipse: s-maj=17.3km s-min=8.3km az=116.0.

(547) Czech and Slovak Republics

PRU	**II**	**26 02 28 11.8**	**49.99N**	**18.47E**	**0**			
								¶16168138

PRU Event type ki.

(642) Norwegian Sea

ISC	**II**	**26 04 30 15.6–1.6**	**61.54N–.04**	**2.15E–.04**	**14–11**		**217**	**1-17**
IDC	II	26 04 30 14.9–2.8	61.58N	2.26E	0	3.7,3.6		**¶16159039**
BGS	II	26 04 30 16.3–2.0	61.93N	2.03E	37–999	3.6L,3.6		
BER	II	26 04 30 17.5–2.2	61.63N	2.04E	10	3.6L,3.0L		
CSEM	II	26 04 30 17.6–.13	61.56N	2.13E	20	3.0L,3.0L		
NAO	II	26 04 30 18.4–5.2	61.64N	2.64E	3–29	3.0L,3.0L		
UPP	II	26 04 30 23.2–2.2	61.48N	3.10E	0	2.4L,3.0L		

ISC Event type ke.
IDC Error ellipse: s-maj=34.7km s-min=25.5km az=142.0.
BGS Error ellipse: s-maj=23.0km s-min=15.0km az=-1.0.
BER Error ellipse: s-maj=6.1km s-min=7.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=157.0.
NAO Error ellipse: s-maj=0.3km s-min=0.2km az=-1.0.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0. Suspected explosion.

(548) Poland

PRU	**II**	**26 16 05 33.1**	**50.26N**	**18.90E**	**0**			
								¶16168150

PRU Event type ki.

(536) Sweden

ISC	**II**	**27 07 12 08.6–.89**	**67.86N–.03**	**20.39E–.04**	**0**		**60**	**1-8**
HEL	II	27 07 12 06.2–.30	67.87N	19.96E	0	1.8L		**¶16173000**
ISCJB	II	27 07 12 06.8–.67	67.77N–.03	20.50E–.10	0	1.8L		
CSEM	II	27 07 12 07.2–.71	67.80N	20.34E	2	1.5L		
NAO	II	27 07 12 08.5–1.6	67.87N	20.54E		2.3L		
IDC	II	27 07 12 09.7–1.2	67.81N	20.38E	0	2.9,2.8		
BER	II	27 07 12 10.4–3.4	67.90N	20.29E	0	2.3L,1.5L		

ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.9km s-min=5.3km az=-1.0. Explosion.
ISCJB Event type km. Error ellipse: s-maj=5.9km s-min=4.3km az=143.9.
CSEM Event type km. Error ellipse: s-maj=14.5km s-min=6.8km az=56.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=9.0km az=114.0.
BER Event type sh. Error ellipse: s-maj=5.3km s-min=18.5km az=-1.0. Suspected explosion.

(460) Wyoming

ISC	**II**	**27 19 04 34.9–1.0**	**43.87N–.06**	**105.15W–.06**	**0**		**21**	**2-19**
ISCJB	II	27 19 04 33.2–.85	43.87N–.07	105.10W–.08	0			**¶17192965**
IDC	II	27 19 04 33.3–2.4	43.60N	105.31W	0	3.4,3.2		
NEIC	II	27 19 04 36.7–1.1	43.86N	105.33W	0	3.0L,3.2		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=10.6km s-min=8.2km az=158.8.
IDC Error ellipse: s-maj=58.4km s-min=8.6km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=15.9km s-min=14.0km az=177.0. 50 km [31 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC	**II**	**27 20 13 24.0–.74**	**43.53N–.03**	**105.29W–.03**	**0**		**55**	**1-20**
IDC	II	27 20 13 22.6–1.8	43.46N	105.33W	0	3.5,3.3		**¶17192966**
ISCJB	II	27 20 13 23.5–.27	43.54N–.02	105.31W–.03	0	3.5,3.3		
NEIC	II	27 20 13 24.3–.44	43.56N	105.25W	0	3.2L,3.3		

ISC Event type sm.
IDC Error ellipse: s-maj=39.7km s-min=7.9km az=150.0.
ISCJB Event type fm. Error ellipse: s-maj=3.8km s-min=2.7km az=148.1.
NEIC Event type fm. Error ellipse: s-maj=6.2km s-min=5.6km az=131.0. 84 km [52 miles] SSE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU	**II**	**28 01 45 45.5**	**49.87N**	**18.47E**	**0**			
								¶16168299

PRU Event type ki.

(548) Poland

ISC	**II**	**28 03 51 56.3–.76**	**50.05N–.03**	**19.06E–.02**	**0**		**51**	**0-5**
ISCJB	II	28 03 51 55.3–.37	50.05N–.03	18.94E–.03	0			**¶16168301**
CSEM	II	28 03 51 57.2–.63	49.93N	19.18E	2	2.6L		
PRU	II	28 03 51 57.3	50.09N	19.05E	0	2.6L		
VIE	II	28 03 52 02.0–.61	49.71N	18.76E	1–2	2.4L,2.0b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=2.2km az=23.6.
CSEM Event type ki. Error ellipse: s-maj=19.8km s-min=12.8km az=167.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=3.8km s-min=2.9km az=110.0. Suspected Mining induced.

(374) Jordan-Syria region

ISC	**II**	**28 10 12 02.0–2.0**	**36.09N–.08**	**36.56E–.06**	**0**		**16**	**0-1**
ISCJB	II	28 10 11 58.9–1.9	35.96N–.09	36.69E–.07	0			**¶601610041**
CSEM	II	28 10 11 58.9–1.2	35.91N	36.67E	1	2.8		
DDA	II	28 10 12 01.9	36.11N	36.56E	7	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=13.7km s-min=6.0km az=151.0.
CSEM Event type sm. Error ellipse: s-maj=24.5km s-min=9.0km az=155.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(374) Jordan-Syria region

ISC	**II**	**28 10 17 30.4–2.9**	**36.29N–.10**	**37.4E–.10**	**0**		**17**	**1-2**
CSEM	II	28 10 17 27.6–1.3	36.22N	37.56E	1	2.9		**¶16494923**
DDA	II	28 10 17 30.9	36.30N	37.38E	3	2.7		
ISK	II	28 10 17 31.2	36.35N	37.31E	9	2.9		

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=26.4km s-min=10.5km az=128.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC II 28 10 25 24.8–.78 59.29N–.02 27.10E–.04 0 73 1-10
ISCJB II 28 10 25 24.8–.62 59.30N–.03 27.09E–.07 0 ¶16173007
HEL II 28 10 25 25.8–.10 59.30N 27.12E 0 1.9L
CSEM II 28 10 25 25.8–.26 59.30N 27.08E 2 1.9L
NAO II 28 10 25 25.3–1.1 59.30N 26.95E 2.2L
BER II 28 10 25 26.7–2.9 59.29N 26.91E 0 2.2L
IDC II 28 10 25 27.4–1.3 59.40N 26.97E 0 3.4,3.3
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.3km s-min=3.5km az=18.6.
HEL Event type kh. Error ellipse: s-maj=0.7km s-min=2.2km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=6.2km s-min=3.7km az=102.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=6.0km s-min=20.2km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=19.1km s-min=12.6km az=83.0.

(544) Switzerland

ZUR II 28 12 39 55.0 46.31N 7.80E 4–3 0.7L
CSEM II 28 12 39 55.0 46.31N 7.80E 4 0.7L ¶602734556
ZUR Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(544) Switzerland

ISC II 28 12 39 16.4–2.2 6.81S–.08 104.44E–.06 16–12 4.0b 39 1-145
IDC II 28 12 39 14.1–1.7 6.67S 104.41E 0 4.6L,4.0 ¶16168950
DJA II 28 12 39 17.8–1.5 7S–4.0 104E–4.0 25–17 4.2,4.2
ISC Event type ke.

(548) Poland

ISC II 28 16 35 25.5–.78 51.54N–.03 16.13E–.03 0 58 1-19
ISCJB II 28 16 35 24.5–.52 51.51N–.03 16.14E–.04 0 ¶16168314
CSEM II 28 16 35 26.0–.42 51.50N 16.01E 2 2.4b
IDC II 28 16 35 27.2–.93 51.51N 16.01E 0 3.4,3.2
VIE II 28 16 35 28.7–.35 51.30N 16.10E 0 2.6L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=3.2km az=30.2.
CSEM Event type sr. Error ellipse: s-maj=14.4km s-min=7.4km az=86.0. Suspected Mining induced.
IDC Error ellipse: s-maj=17.5km s-min=8.3km az=95.0.
VIE Event type sr. Error ellipse: s-maj=2.4km s-min=1.8km az=16.0. Suspected Mining induced.

(460) Wyoming

ISC II 28 18 59 48.0–.77 43.93N–.04 105.27W–.04 0 25 1-89
ISCJB II 28 18 59 46.3–.50 43.87N–.05 105.02W–.06 0 3.5b ¶17193013
NEIC II 28 18 59 48.1–.37 43.91N 105.12W 0 3.0L
IDC II 28 18 59 49.3–1.1 44.22N 105.64W 0 3.5,3.5b
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=7.2km s-min=6.0km az=40.1.
NEIC Event type fm. Error ellipse: s-maj=5.6km s-min=4.7km az=197.0. 53 km [33 miles] SE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=24.6km s-min=9.1km az=143.0.

(548) Poland

ISC III 01 05 07 01.4–.73 50.16N–.03 18.65E–.01 0 77 0-4
VIE III 01 05 07 00.9–.78 49.61N 18.97E 0–2 2.2L,1.6b ¶16193806
ISCJB III 01 05 07 00.2–.38 50.24N–.03 18.61E–.02 0 2.2L,1.6b
IPEC III 01 05 07 01.5–.21 50.22N 18.70E 2–2 1.8L,1.6b
CSEM III 01 05 07 01.2–.23 50.21N 18.62E 2 2.8L,1.6b
PRU III 01 05 07 02.0 50.24N 18.64E 0 2.8L,1.6b
ISC Event type sr.
VIE Event type sr. Error ellipse: s-maj=6.9km s-min=2.8km az=131.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=4.6km s-min=2.0km az=10.9.
IPEC Event type ki. Error ellipse: s-maj=2.4km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.1km az=179.0.
PRU Event type ki.

(548) Poland

ISC III 01 09 38 03.4–1.1 51.42N–.05 16.07E–.02 0 54 1-4
ISCJB III 01 09 38 00.6–.77 51.47N–.04 16.10E–.03 0 ¶16193807
CSEM III 01 09 38 02.9–.46 51.43N 16.10E 2 2.5L
PRU III 01 09 38 03.8 51.42N 16.10E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=2.8km az=4.3.
CSEM Event type ki. Error ellipse: s-maj=7.5km s-min=3.7km az=1.0.
PRU Event type ki.

(723) Finland-Karelia border region

ISC III 01 10 00 21.3–.89 64.86N–.02 30.45E–.05 0 89 1-14
ISCJB III 01 10 00 19.8–.57 64.85N–.03 30.20E–.09 0 ¶16173017
HEL III 01 10 00 19.4–.20 64.85N 30.88E 0 2.1L
KOLA III 01 10 00 21.5 64.72N 30.92E 0 2.1L
IDC III 01 10 00 22.5–2.6 64.75N 30.76E 0 3.1,3.0
NAO III 01 10 00 22.9–1.5 64.84N 30.22E 2.4L,3.0
CSEM III 01 10 00 22.2–.37 64.88N 30.32E 2 2.1L,3.0
BER III 01 10 00 24.2–4.5 64.85N 30.18E 0 2.4L,3.0
UPP III 01 10 00 42.4 64.72N 26.94E 0 1.5L,3.0
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.8km s-min=3.0km az=26.7.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=3.6km az=-1.0. Explosion.
KOLA Event type km.
IDC Error ellipse: s-maj=41.1km s-min=8.7km az=101.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type km. Error ellipse: s-maj=8.1km s-min=4.4km az=116.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=7.6km s-min=42.7km az=-1.0. Suspected explosion.
UPP Event type sm. Suspected Mining explosion.

(329) Eastern Kazakhstan

ISC III 02 07 18 32.7–.83 50.05N–.05 78.69E–.05 0 18 1-7
NNC III 02 07 18 31.8–.96 50.02N 78.77E 0 3.2b,2.9 ¶16484219
IDC III 02 07 18 33.0–1.0 50.09N 78.70E 0 2.8,2.8
ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=8.2km s-min=5.0km az=81.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=16.9km s-min=6.3km az=67.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 02 11 17 16.4–.80 59.36N–.02 27.05E–.04 0 66 1-10
HEL III 02 11 17 17.6–.30 59.34N 27.27E 0 2.0L ¶16295198
NAO III 02 11 17 18.2–1.2 59.30N 27.18E 2.5L
ISCJB III 02 11 17 18.3–.66 59.35N–.03 26.84E–.08 0 2.5L
BER III 02 11 17 18.9–2.6 59.33N 27.16E 0 2.5L
CSEM III 02 11 17 18.9–.37 59.32N 27.04E 2 1.9L
IDC III 02 11 17 21.9–2.5 59.53N 26.87E 0 3.4,3.4
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=5.3km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
ISCJB Event type km. Error ellipse: s-maj=6.4km s-min=3.7km az=23.8.
BER Event type sh. Error ellipse: s-maj=4.8km s-min=19.0km az=-1.0. Suspected explosion.
CSEM Event type km. Error ellipse: s-maj=9.7km s-min=5.3km az=99.0. Mining explosion.
IDC Error ellipse: s-maj=23.3km s-min=10.8km az=143.0.

(366) Turkey

ISC III 02 11 51 11.1–1.0 40.74N–.05 39.53E–.03 0 24 0-2
ISK III 02 11 51 11.4 40.66N 39.60E 2 2.6 ¶16494999
DDA III 02 11 51 12.4 40.69N 39.46E 7 2.6
CSEM III 02 11 51 12.4–.26 40.66N 39.55E 2 2.6
ISCJB III 02 11 51 12.2–.61 40.67N–.03 39.54E–.05 0 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(536) Sweden

UPP III 02 12 23 10.0–.70 56.04N 14.03E 1–4 1.5L
CSEM III 02 12 23 09.6–.17 56.04N 14.04E 2 1.5L ¶16193955
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.1km s-min=3.4km az=80.0. Mining explosion.

(543) Germany

UCC III 02 12 54 56.4–1.1 50.61N 6.01E 1–4 1.9L
CSEM III 02 12 54 55.7–.60 50.61N 6.06E 1 1.9L ¶602002433
UCC Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=10.6km s-min=4.9km az=115.0. Mining explosion.

(535) Southern Norway

BER III 03 12 02 55.2–1.2 59.36N 6.12E 0 1.5L,1.4
CSEM III 03 12 02 54.3–.23 59.37N 6.10E 2 1.5L,1.4 ¶16196369
BER Event type kh. Error ellipse: s-maj=2.5km s-min=6.3km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=6.3km s-min=4.3km az=71.0. Mining explosion.

(548) Poland

PRU III 03 12 33 19.8 50.05N 18.41E 0
CSEM III 03 12 33 19.8 50.05N 18.41E 0 ¶16194001
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

(456) Montana

ISC III 03 20 39 45.0–.00 45.78N–.05 106.70W–.06 0 15 1-9
IDC III 03 20 39 46.6–1.4 45.42N 106.32W 0 3.3,3.1 ¶17193207
NEIC III 03 20 39 46.7–.56 45.85N 106.66W 0 2.8L,3.1
ISCJB III 03 20 39 46.1–.76 45.85N–.06 106.7W–.10 0 2.8L,3.1
ISC Event type sm.
NEIC Event type fm. 5 km [3 miles] SW of Colstrip. Suspected Mining explosion.
ISCJB Event type fm.

(329) Eastern Kazakhstan

ISC III 04 07 11 08.4–.86 50.03N–.05 78.73E–.05 0 42 1-12
ISCJB III 04 07 11 06.7–.54 49.98N–.02 78.55E–.06 0 ¶16484341
NNC III 04 07 11 07.8–.38 50.04N 78.76E 2–3 3.7b,3.4
IDC III 04 07 11 08.8–.74 50.05N 78.74E 0 3.5,3.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=3.3km az=11.2.
NNC Event type sm. Error ellipse: s-maj=6.5km s-min=2.7km az=65.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=9.2km s-min=5.9km az=64.0.

(366) Turkey

DDA III 04 08 52 39.5 39.70N 29.45E 8
CSEM III 04 08 52 39.5 39.70N 29.45E 8 2.9 ¶601610137
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

ISC III 04 09 45 31.6–1.0 37.05N–.05 27.96E–.03 0 19 0-1
ISCJB III 04 09 45 32.8–.77 37.03N–.06 28.02E–.04 0 ¶601610141
CSEM III 04 09 45 33.1–.56 36.96N 27.98E 1 2.5
DDA III 04 09 45 34.4 37.10N 27.96E 7 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.3km s-min=4.8km az=15.6.
CSEM Event type sm. Error ellipse: s-maj=15.0km s-min=7.5km az=3.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

DDA III 04 09 49 15.6 39.69N 29.50E 10
CSEM III 04 09 49 15.6 39.69N 29.50E 10 2.7 ¶601610142
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

ISC III 04 09 53 27.4–.98 37.27N–.05 28.18E–.03 0 28 0-1
ISK III 04 09 53 27.1 37.21N 28.14E 5 2.5 ¶16495053
DDA III 04 09 53 28.4 37.25N 28.20E 7 2.5
CSEM III 04 09 53 28.2–.20 37.23N 28.17E 1 2.5
ISCJB III 04 09 53 28.1–.58 37.23N–.04 28.17E–.04 0 2.5
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

DDA III 04 10 02 06.4 37.38N 28.02E 7
¶602442048
DDA Event type sm. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 04 10 43 06.7–1.8 67.63N–.04 33.51E–.09 0 36 0-7
NAO III 04 10 43 04.3–1.6 67.62N 33.93E 2.9L ¶16295200
HEL III 04 10 43 05.0–.40 67.66N 33.85E 0 2.6L
CSEM III 04 10 43 06.9–.60 67.65N 33.45E 2 2.9L
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=2.4km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=11.2km s-min=7.5km az=64.0. Mining explosion.

(642) Norwegian Sea

ISC III 04 11 16 45.0–.34 73.08N–.04 5.93E–.04 11 4.5b,3.9s 387 4-123
NAO III 04 11 16 41.6–1.5 72.99N 5.88E 3.9L,3.9s ¶16194042
CSEM III 04 11 16 42.9–.10 73.05N 5.87E 2 4.6b,3.9s
ISCJB III 04 11 16 42.9–.18 73.03N–.02 6.03E–.09 11 4.3b,3.9s
BJI III 04 11 16 42.9 73.10N 5.90E 14 5.0b,4.8s
MOS III 04 11 16 43.5–1.4 73.19N 5.90E 10 4.4b,4.8s
IDC III 04 11 16 43.1–.54 73.03N 5.67E 0 4.0,3.9
NEIC III 04 11 16 44.8–.20 73.02N 5.83E 10 4.7b,3.9
HEL III 04 11 16 45.3–.40 73.11N 6.58E 10 3.8L,2.9
BER III 04 11 16 46.3–3.2 73.07N 5.75E 23–34 2.9,2.9L
ISC Event type ke.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=143.0.
MOS Error ellipse: s-maj=21.9km s-min=4.8km az=95.3.
IDC Error ellipse: s-maj=13.7km s-min=10.6km az=50.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.6km az=54.0.
HEL Error ellipse: s-maj=2.3km s-min=4.6km az=-1.0.
BER Error ellipse: s-maj=7.9km s-min=41.6km az=-1.0.

(366) Turkey

ISC III 04 13 59 27.8–.84 39.91N–.02 33.08E–.02 0 43 0-2
CSEM III 04 13 59 27.6–.12 39.91N 33.08E 1 2.7 ¶16495064
ISK III 04 13 59 27.4 39.90N 33.08E 5 2.7
ISCJB III 04 13 59 27.6–.41 39.90N–.03 33.09E–.04 0 2.7
DDA III 04 13 59 28.1 39.91N 33.05E 7 2.7
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=3.0km s-min=2.6km az=117.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.8km az=21.8.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

PRU III 04 20 49 38.4 50.07N 18.41E 0
¶16245318
PRU Event type ki.

(460) Wyoming

ISC III 04 21 06 27.7–.66 43.81N–.02 105.22W–.02 0 78 1-20
IDC III 04 21 06 24.7–2.1 43.57N 105.25W 0 3.6,3.3 ¶17193246
NEIC III 04 21 06 27.5–.40 43.79N 105.20W 0 3.2L,3.3
ISCJB III 04 21 06 27.6–.25 43.81N–.02 105.28W–.02 0 3.2L,3.3
ISC Event type sm.
NEIC Event type fm. 61 km [38 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(548) Poland

ISC III 05 01 51 22.5–.61 51.52N–.02 16.17E–.02 0 183 1-40
ISCJB III 05 01 51 21.5–.25 51.50N–.02 16.19E–.02 0 2.9b ¶16245324
CSEM III 05 01 51 23.5–.12 51.48N 16.20E 2 3.1L
IDC III 05 01 51 24.8–.66 51.46N 15.94E 0 3.3,3.2
BGR III 05 01 51 25.5–.44 51.41N 16.18E 1 3.1L,3.2
VIE III 05 01 51 26.0–.66 51.28N 16.25E 0 3.0L,2.4b
UPP III 05 01 51 27.5–2.6 51.69N 15.74E 0 2.5L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.3km s-min=1.8km az=25.6.
CSEM Event type ki. Error ellipse: s-maj=2.4km s-min=2.2km az=52.0.
IDC Error ellipse: s-maj=14.3km s-min=7.7km az=104.0.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=2.2km az=23.0.
VIE Event type sr. Error ellipse: s-maj=5.4km s-min=4.1km az=113.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC III 05 02 46 50.4–.54 51.60N–.03 16.07E–.02 0 3.4b 249 1-60

ISCJB III 05 02 46 49.3–.22 51.59N–.01 16.09E–.02 0 3.2b ¶16245325
CSEM III 05 02 46 51.3–.16 51.59N 16.08E 1 3.3L
IDC III 05 02 46 52.8–.60 51.55N 16.01E 0 3.6,3.4
BGR III 05 02 46 53.3–.34 51.53N 16.12E 1 3.3L,3.4
LDG III 05 02 46 54.5–.17 51.43N 15.87E 1 3.4L,3.4
UPP III 05 02 46 55.8–2.7 51.79N 15.63E 0 2.5L,3.4
VIE III 05 02 46 56.3–.69 51.26N 16.18E 0 3.2L,3.0b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.0km s-min=1.7km az=17.7.
CSEM Event type ki. Error ellipse: s-maj=3.3km s-min=3.2km az=64.0.
IDC Error ellipse: s-maj=13.8km s-min=7.4km az=106.0.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=15.0.
LDG Event type sr. Error ellipse: s-maj=4.5km s-min=2.3km az=3.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=6.5km s-min=4.6km az=96.0. Suspected Mining induced.

(548) Poland

ISC III 05 04 32 36.7–.32 51.50N–.02 16.11E–.02 0 4.3b 668 1-125
BJI III 05 04 32 29.4 50.41N 15.21E 5 4.9b,4.4b ¶16195229
BNS III 05 04 32 34.1–1.6 51.43N 16.67E 10 4.2L,4.4b
ISCJB III 05 04 32 35.3–.13 51.49N–.01 16.11E–.01 0 4.3b,4.0s
LDG III 05 04 32 36.2–.08 51.54N 16.21E 1 4.5L,4.0s
MOS III 05 04 32 36.6–.95 51.52N 16.09E 10 4.4b,4.0s
CSEM III 05 04 32 36.7–.07 51.54N 16.13E 0 4.4L,4.3s
IDC III 05 04 32 37.4–.38 51.49N 16.10E 0 4.1,4.1b
BGR III 05 04 32 38.2–.32 51.49N 16.16E 1 4.2L,4.1b
NEIC III 05 04 32 38.1–.18 51.46N 16.19E 5 4.3b,4.1b
PRU III 05 04 32 38.0 51.51N 16.11E 0 4.4,4.1b
VIE III 05 04 32 39.4–.65 51.35N 16.20E 0 4.3s,4.0L
UPP III 05 04 32 41.4–3.0 51.80N 15.56E 0 3.3L,4.0L
ISC Event type sr.
BNS Event type ke.
ISCJB Event type sr. Error ellipse: s-maj=1.6km s-min=1.2km az=173.2.
LDG Event type sr. Error ellipse: s-maj=2.5km s-min=1.7km az=164.0. Suspected Mining induced.
MOS Error ellipse: s-maj=4.9km s-min=3.2km az=86.9.
CSEM Event type ki. Error ellipse: s-maj=2.1km s-min=1.6km az=166.0.
IDC Error ellipse: s-maj=7.5km s-min=4.8km az=99.0.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=15.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=168.0.
PRU Event type ki. Felt In Harrachov.
VIE Event type sr. Error ellipse: s-maj=6.7km s-min=3.5km az=29.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.2km az=-1.0. Suspected explosion.

(548) Poland

ISC III 05 04 45 31.3–1.2 51.47N–.06 16.12E–.03 0 47 1-4
ISCJB III 05 04 45 28.8–.82 51.50N–.04 16.15E–.04 0 ¶16245329
CSEM III 05 04 45 30.0–.70 51.51N 16.18E 2 2.5L
PRU III 05 04 45 32.2 51.46N 16.11E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=3.2km az=12.6.
CSEM Event type ki. Error ellipse: s-maj=11.1km s-min=5.8km az=19.0.
PRU Event type ki.

(329) Eastern Kazakhstan

ISC III 05 09 01 35.1–.89 51.76N–.07 75.51E–.05 0 17 2-7
ISCJB III 05 09 01 32.8–.60 51.74N–.06 75.53E–.08 0 ¶16484396
NNC III 05 09 01 34.5–.54 51.76N 75.48E 0 3.0b,2.6
IDC III 05 09 01 37.1–1.0 51.71N 75.59E 0 2.7,2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=10.6km s-min=4.4km az=32.0.
NNC Event type sm. Error ellipse: s-maj=8.0km s-min=3.4km az=30.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=34.1km s-min=7.7km az=31.0.

(366) Turkey

ISC III 05 10 47 45.9–.93 37.31N–.03 28.17E–.03 0 32 0-2
ISK III 05 10 47 44.1 37.34N 28.18E 5 2.6 ¶16495083
ISCJB III 05 10 47 45.9–.57 37.26N–.04 28.23E–.04 0 2.6
DDA III 05 10 47 46.4 37.20N 28.09E 7 2.6
CSEM III 05 10 47 46.0–.37 37.27N 28.20E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.9km s-min=4.0km az=24.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9.0km s-min=6.3km az=19.0. Suspected Mining explosion.

(366) Turkey

ISC III 05 13 34 47.3–.87 37.29N–.03 28.07E–.03 0 40 0-2
ISK III 05 13 34 47.9 37.19N 28.18E 14 2.6 ¶16495084
CSEM III 05 13 34 48.4–.23 37.24N 28.20E 2 2.6
ISCJB III 05 13 34 48.4–.45 37.22N–.03 28.18E–.03 0 2.6
DDA III 05 13 34 49.1 37.27N 28.09E 7 2.6
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=6.3km s-min=3.8km az=42.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=3.0km az=38.3.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC III 05 15 57 27.9–.90 37.26N–.03 28.05E–.04 0 34 0-2
DDA III 05 15 57 28.8 37.23N 28.15E 7 ¶16495088
ISK III 05 15 57 28.4 37.26N 28.19E 7 2.6
ISCJB III 05 15 57 28.7–.51 37.26N–.04 28.20E–.05 0 2.6
CSEM III 05 15 57 29.0–.23 37.26N 28.19E 2 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.5km s-min=3.5km az=135.6.
CSEM Event type sm. Error ellipse: s-maj=6.5km s-min=3.9km az=43.0. Suspected Mining explosion.

(548) Poland

ISC III 05 18 02 38.3–2.2 51.51N–.09 16.15E–.07 0 24 1-3
CSEM III 05 18 02 38.4–.62 51.50N 16.14E 1 ¶16245334
PRU III 05 18 02 38.8 51.50N 16.15E 0
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9.1km s-min=5.7km az=10.0.
PRU Event type ki.

(548) Poland

ISC III 05 18 04 19.2–1.1 51.49N–.05 16.08E–.03 0 44 1-4
ISCJB III 05 18 04 16.6–.82 51.50N–.04 16.10E–.03 0 ¶16245335
CSEM III 05 18 04 18.6–.47 51.48N 16.09E 2 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.4km s-min=3.0km az=7.4.
CSEM Event type ki. Error ellipse: s-maj=8.0km s-min=4.3km az=5.0.

(548) Poland

ISC III 05 18 45 51.7–.47 51.59N–.02 16.06E–.02 0 3.7b 331 1-75
ISCJB III 05 18 45 50.1–.21 51.58N–.01 16.07E–.02 0 3.7b ¶16245336
MOS III 05 18 45 51.4–1.0 51.67N 16.12E 10 4.1b
LDG III 05 18 45 51.6–.14 51.60N 16.12E 1 3.9L
CSEM III 05 18 45 52.1–.11 51.60N 16.10E 2 4.0b
IDC III 05 18 45 52.8–.53 51.57N 16.03E 0 3.7,3.6
PRU III 05 18 45 53.9 51.52N 16.05E 0 3.7,3.6
BGR III 05 18 45 53.6–.33 51.53N 16.12E 1 3.7L,3.6
BNS III 05 18 45 54.0–.91 51.57N 16.15E 10 3.2L,3.6
UPP III 05 18 45 54.7–3.2 51.71N 15.54E 0 1.8L,3.6
VIE III 05 18 45 56.7–.62 51.26N 16.18E 0 3.2L,3.0b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.1km s-min=1.7km az=6.1.
MOS Error ellipse: s-maj=7.3km s-min=4.0km az=87.8.
LDG Event type sr. Error ellipse: s-maj=3.9km s-min=2.0km az=3.0. Suspected Mining induced.
CSEM Event type ki. Error ellipse: s-maj=2.6km s-min=2.3km az=159.0.
IDC Error ellipse: s-maj=11.9km s-min=6.3km az=108.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=13.0.
BNS Event type ke.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=4.8km s-min=4.0km az=155.0. Suspected Mining induced.

(536) Sweden

ISC III 06 00 21 16.3–.85 67.86N–.03 20.18E–.03 0 55 0-8
ISCJB III 06 00 21 15.5–.50 67.82N–.03 20.23E–.09 0 ¶602002664
CSEM III 06 00 21 16.0–.31 67.84N 20.28E 2 1.1L
HEL III 06 00 21 16.8–.10 67.86N 20.19E 0 1.4L,1.1L
UPP III 06 00 21 16.1 67.86N 20.20E 0 1.1L,1.1L
IDC III 06 00 21 17.2–1.6 67.92N 20.13E 0 3.1,3.0
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.1km s-min=3.7km az=18.5.
CSEM Event type km. Error ellipse: s-maj=6.6km s-min=6.2km az=154.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0. Explosion.
UPP Event type km. Mining explosion.
IDC Error ellipse: s-maj=22.1km s-min=11.1km az=115.0.

(536) Sweden

UPP III 06 00 21 26.7 67.85N 20.22E 0 1.3L
CSEM III 06 00 21 23.4–1.1 68.12N 20.52E 1 1.3L ¶17193315
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=27.3km s-min=20.4km az=127.0. Mining explosion.

(536) Sweden

HEL III 07 00 26 02.5–.60 67.85N 20.30E 0 1.5L
¶600710887
HEL Event type kh. Error ellipse: s-maj=2.6km s-min=9.2km az=-1.0. Explosion.

(329) Eastern Kazakhstan

ISC III 07 07 46 32.7–.73 50.07N–.04 78.76E–.05 0 29 1-43
ISCJB III 07 07 46 31.5–.47 49.98N–.03 78.53E–.06 0 4.3b ¶16449408
NNC III 07 07 46 32.5–.77 50.01N 78.67E 0 3.5b,3.2
IDC III 07 07 46 33.0–.82 50.06N 78.81E 0 4.3b,3.8
SOME III 07 07 46 33.6 49.97N 78.72E 4.3b,3.8
NEIC III 07 07 46 34.3–.68 50.06N 78.66E 10 4.3b,3.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=4.0km az=172.6.
NNC Event type sm. Error ellipse: s-maj=9.4km s-min=3.9km az=88.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=12.8km s-min=6.8km az=66.0.
SOME Event type kx.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.9km az=76.0.

(724) Baltic States-Belarus-Northwestern Russia

HEL III 07 11 58 00.9–.20 59.21N 27.77E 0 1.9L
CSEM III 07 11 58 02.1–.67 59.30N 27.70E 2 1.5L ¶600710910
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=2.4km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=15.1km s-min=8.3km az=118.0. Mining explosion.

(548) Poland

PRU III 07 12 00 18.7 50.32N 18.91E 0
¶16303683
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 07 12 40 01.9–.87 59.35N–.02 26.98E–.04 0 48 1-10
CSEM III 07 12 40 01.4–.56 59.32N 27.19E 2 2.0L ¶17193413
ISCJB III 07 12 40 01.2–.68 59.29N–.03 27.2E–.10 0 2.0L
HEL III 07 12 40 02.4–.20 59.29N 27.16E 0 2.0L
IDC III 07 12 40 04.2–2.3 59.38N 27.11E 0 3.3,3.2
ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=15.3km s-min=6.3km az=99.0. Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=7.6km s-min=3.6km az=14.5.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=2.7km az=-1.0. Explosion.
IDC Error ellipse: s-maj=25.2km s-min=13.8km az=101.0.

(639) Jan Mayen Island region

ISC III 07 13 52 57.6–.46 70.87N–.04 7.07W–.04 16 3.6b,2.7s 157 0-65
ISCJB III 07 13 52 55.3–.25 70.78N–.02 6.96W–.06 16 3.5b,2.8s ¶16245349
IDC III 07 13 52 56.4–.65 70.88N 7.02W 0 3.9,3.8L
NAO III 07 13 52 56.3–5.3 70.78N 7.15W 11–76 3.9L,3.8L
CSEM III 07 13 52 56.4–.15 70.86N 7.03W 10 4.3L,3.8L
BER III 07 13 52 57.9–4.0 70.88N 7.11W 8–31 4.3L,3.9L
REY III 07 13 52 59.8 70.82N 8.70W 10 4.3L,3.9L
UPP III 07 13 54 02.2–3.7 70.00N 7.03E 0 2.1L,3.9L
ISC Event type ke.
ISCJB Event type sh. Error ellipse: s-maj=3.8km s-min=2.4km az=154.3.
IDC Error ellipse: s-maj=17.3km s-min=6.8km az=14.0.
NAO Error ellipse: s-maj=0.2km s-min=0.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=155.0.
BER Error ellipse: s-maj=8.8km s-min=52.0km az=-1.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.8km az=-1.0. Suspected explosion.

(543) Germany

ISC III 08 16 06 43.3–.69 51.43N–.02 6.47E–.02 0 315 0-8
ISCJB III 08 16 06 42.0–.27 51.41N–.02 6.37E–.02 0 ¶16294217
CSEM III 08 16 06 43.6–.20 51.47N 6.46E 1 3.7L
BUG III 08 16 06 44.0 51.52N 6.58E 1 3.0L
LDG III 08 16 06 44.6–.07 51.43N 6.68E 1 3.5L
BNS III 08 16 06 45.7–1.1 51.45N 6.60E 1 2.8L
BGR III 08 16 06 45.4–.25 51.47N 6.62E 1 3.2L
PRU III 08 16 06 47.7 51.53N 6.76E 18 3.2L
STR III 08 16 06 50.8–.19 51.24N 7.01E 10 3.2L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=2.4km s-min=1.8km az=140.0.
CSEM Event type ki. Error ellipse: s-maj=4.0km s-min=2.8km az=153.0.
GDNRW Event type fi.
LDG Event type sr. Error ellipse: s-maj=1.8km s-min=1.2km az=134.0. Suspected Mining induced.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=111.0.
STR Event type ke.

(383) Northwestern Balkan Peninsula

ISC III 08 16 27 10.0–.88 44.15N–.04 15.83E–.04 0 52 1-5
ISCJB III 08 16 27 09.5–.51 44.16N–.04 15.85E–.05 0 ¶603310068
CSEM III 08 16 27 10.1–.28 44.17N 15.80E 2 2.9L
PRU III 08 16 27 12.1 44.17N 16.16E 14 2.9L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.9km s-min=2.9km az=43.0.
CSEM Event type km. Error ellipse: s-maj=9.1km s-min=3.6km az=41.0. Mining explosion.

(383) Northwestern Balkan Peninsula

VIE III 08 16 39 53.2–.65 46.35N 15.08E 8–17 1.4L
LJU III 08 16 39 53.8 46.39N 15.07E 0 2.3L ¶601123973
VIE Error ellipse: s-maj=3.8km s-min=1.2km az=5.0.
LJU Rockburst.

(460) Wyoming

ISC III 08 18 19 50.3–1.3 44.01N–.09 105.21W–.08 0 16 1-9
IDC III 08 18 19 49.6–2.2 43.74N 105.30W 0 3.3,3.1 ¶17193481
ISCJB III 08 18 19 50.1–.74 44.13N–.09 105.29W–.08 0 3.3,3.1
NEIC III 08 18 19 51.4–.71 44.04N 105.29W 0 2.9L,3.1
ISC Event type sm.
IDC Error ellipse: s-maj=62.0km s-min=8.7km az=151.0.
ISCJB Event type fm. Error ellipse: s-maj=13.3km s-min=7.7km az=166.2.
NEIC Event type fm. Error ellipse: s-maj=14.0km s-min=7.6km az=165.0. 33 km [20 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC III 08 20 11 45.3–.65 43.59N–.03 105.25W–.03 0 3.9b 62 1-82
IDC III 08 20 11 41.6–1.8 43.06N 105.01W 0 3.6,3.5b ¶17193489
ISCJB III 08 20 11 45.5–.29 43.59N–.03 105.27W–.03 0 3.9b,3.1s
NEIC III 08 20 11 45.4–.56 43.61N 105.07W 0 3.2L,3.1s
ISC Event type sm.
IDC Error ellipse: s-maj=42.1km s-min=9.6km az=159.0.
ISCJB Event type fm. Error ellipse: s-maj=4.2km s-min=2.5km az=155.5.
NEIC Event type fm. Error ellipse: s-maj=8.9km s-min=7.5km az=173.0. 75 km [47 miles] WSW of Newcastle. Suspected Mining explosion.

(544) Switzerland

ZUR III 09 12 56 08.2 46.24N 7.00E 0–3 0.8L
CSEM III 09 12 56 08.2 46.24N 7.00E 0 0.8L ¶16461145
ZUR Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

ISC III 09 14 57 54.2–.84 40.65N–.04 41.25E–.03 0 32 0-2
ISK III 09 14 57 54.8 40.84N 41.30E 23 2.8 ¶16495173

CSEM III 09 14 57 55.5–.47 40.81N 41.09E 1 2.8
DDA III 09 14 57 57.1 40.74N 41.26E 7 2.8
ISCJB III 09 14 57 57.0–.56 40.73N–.03 41.23E–.04 0 2.8
ISC Event type sm.
CSEM Event type sm. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(548) Poland

ISC III 09 15 35 38.0–1.2 51.48N–.06 16.04E–.03 0 61 1-4
ISCJB III 09 15 35 36.1–.77 51.48N–.04 16.06E–.03 0 **¶16303951**
CSEM III 09 15 35 37.0–.48 51.51N 16.08E 2 2.6L
PRU III 09 15 35 38.9 51.48N 16.01E 0 2.6L
VIE III 09 15 35 40.4–2.1 51.33N 16.08E 0 2.6L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.4km s-min=2.9km az=14.1.
CSEM Event type ki. Error ellipse: s-maj=7.5km s-min=4.8km az=18.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=28.5km s-min=11.5km az=96.0. Suspected Mining induced.

(383) Northwestern Balkan Peninsula

CSEM III 10 02 45 47.7–99 46.39N 15.07E 0
LJU III 10 02 45 47.7 46.39N 15.07E 0 0.4L **¶601123980**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(329) Eastern Kazakhstan

NNC III 10 09 34 38.6–.64 51.62N 75.22E 0 3.9,3.3b
¶16577588
NNC Event type sm. Error ellipse: s-maj=38.9km s-min=4.4km az=26.0. Suspected Mining explosion.

(366) Turkey

DDA III 10 10 30 24.5 40.84N 41.55E 7
CSEM III 10 10 30 24.5 40.84N 41.55E 7 2.5 **¶601582347**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

CSEM III 10 11 09 09.0–99 46.39N 15.07E 0
LJU III 10 11 09 09.0 46.39N 15.07E 0 0.4L **¶601123981**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(721) Finland

HEL III 10 11 48 42.8–.10 64.00N 28.15E 0 1.9L
CSEM III 10 11 48 42.8 64.00N 28.15E 0 1.9L **¶600711182**
UPP III 10 11 49 19.6–1.7 66.00N 24.07E 0 1.5L
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=1.7km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0. Suspected explosion.

(713) Central Kazakhstan

ISC III 10 11 49 17.0–.73 50.96N–.06 73.39E–.06 0 18 3-60
ISCJB III 10 11 49 15.4–.57 50.79N–.05 73.56E–.08 0 3.5b **¶16484779**
NNC III 10 11 49 18.0–.87 50.87N 73.59E 0 3.4b,3.0
IDC III 10 11 49 19.0–.75 50.82N 73.62E 0 3.3,3.3b
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.6km s-min=6.2km az=138.6.
NNC Event type sm. Error ellipse: s-maj=12.0km s-min=7.3km az=49.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=12.2km s-min=8.8km az=28.0.

(548) Poland

ISC III 10 14 56 51.2–1.1 51.48N–.05 16.16E–.02 0 64 1-4
ISCJB III 10 14 56 49.9–.68 51.44N–.03 16.18E–.03 0 **¶16313854**
CSEM III 10 14 56 51.3–.39 51.45N 16.17E 2 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.9km s-min=2.7km az=7.9.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=3.8km az=5.0.

(460) Wyoming

ISC III 10 20 06 12.3–.72 43.58N–.03 105.18W–.03 0 55 1-20
IDC III 10 20 06 11.0–1.1 43.46N 105.29W 0 3.3,3.2 **¶17193654**
ISCJB III 10 20 06 12.8–.29 43.57N–.03 105.21W–.03 0 3.3,3.2
NEIC III 10 20 06 12.4–.52 43.62N 105.02W 0 3.4L,3.2
ISC Event type sm.
IDC Error ellipse: s-maj=19.2km s-min=9.3km az=152.0.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=2.6km az=148.1.
NEIC Event type fm. Error ellipse: s-maj=7.6km s-min=6.6km az=61.0. 71 km [44 miles] WSW of Newcastle. Suspected Mining explosion.

(536) Sweden

ISC III 10 21 51 22.5–.70 67.85N–.02 20.21E–.02 0 119 0-10
CSEM III 10 21 51 22.7–.21 67.85N 20.23E 2 1.9L **¶16484820**
ISCJB III 10 21 51 22.0–.41 67.83N–.02 20.24E–.08 0 1.9L
HEL III 10 21 51 23.4–.00 67.86N 20.21E 0 2.0L,1.9L
NAO III 10 21 51 23.0–.90 67.87N 20.54E 2.7L,1.9L
UPP III 10 21 51 23.1–.40 67.85N 20.21E 2–2 1.9L,1.9L
BER III 10 21 51 24.1–3.9 67.87N 20.20E 0 2.7L,2.1L
IDC III 10 21 51 24.1–1.1 67.81N 20.48E 0 3.3,3.3
ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=5.0km s-min=4.0km az=104.0. Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=2.7km az=8.8.
HEL Event type kh. Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0. Explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=5.9km s-min=20.1km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=17.4km s-min=8.5km az=118.0.

(536) Sweden

ISC III 10 23 42 10.2–.67 67.17N–.02 20.60E–.02 0 151 1-11
ISCJB III 10 23 42 10.4–.36 67.16N–.02 20.70E–.07 0 **¶16303254**
UPP III 10 23 42 11.2–.70 67.18N 20.67E 0–5 2.5L
NAO III 10 23 42 11.4–.80 67.17N 21.07E 2.7L
IDC III 10 23 42 11.7–.76 67.14N 20.81E 0 3.3,3.3
CSEM III 10 23 42 11.4–.15 67.19N 20.66E 2 2.5L,3.3
HEL III 10 23 42 12.0–.10 67.18N 20.67E 1 2.5L,2.2L
BER III 10 23 42 13.0–4.2 67.18N 20.76E 0 2.7L,2.0L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.0km s-min=2.5km az=5.1.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=7.0km az=108.0.
CSEM Event type km. Error ellipse: s-maj=4.0km s-min=2.9km az=87.0. Mining explosion.
HEL Event type sh. Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0. Suspected explosion.
BER Event type sh. Error ellipse: s-maj=6.5km s-min=21.1km az=-1.0. Suspected explosion.

(536) Sweden

UPP III 11 06 42 27.9–.10 57.73N 16.73E 0 4.0L
CSEM III 11 06 42 27.9 57.73N 16.73E 0 4.0L **¶600888904**
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(329) Eastern Kazakhstan

NNC III 11 07 31 10.6–.44 50.03N 78.84E 0 3.9b,3.6
¶16587400
NNC Event type sm. Error ellipse: s-maj=8.4km s-min=2.3km az=76.0. Suspected Mining explosion.

(329) Eastern Kazakhstan

NNC III 11 09 00 49.7–1.1 51.21N 75.57E 0 3.6b,3.2
¶16587402
NNC Event type sm. Error ellipse: s-maj=18.0km s-min=7.7km az=20.0. Suspected Mining explosion.

(335) Ural Mountains region

NNC III 11 09 26 48.1–.64 51.11N 60.00E 0 3.6b,3.3
CSEM III 11 09 26 48.1 51.11N 60.00E 0 3.6b,3.3 **¶16587403**
NNC Event type sm. Error ellipse: s-maj=6.3km s-min=3.6km az=164.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU III 11 09 28 19.9 49.92N 18.57E 0
¶16313877
PRU Event type ki.

(366) Turkey

DDA III 11 09 40 04.3 39.63N 29.45E 7
¶602442223
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

DDA III 11 09 48 25.9 39.66N 29.42E 7
CSEM III 11 09 48 25.9 39.66N 29.42E 7 2.5 **¶601582366**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 11 10 00 23.2–1.1 64.75N–.03 30.75E–.05 0 58 1-6
UPP III 11 10 00 17.5 64.51N 31.85E 0 0.9L **¶16461305**
ISCJB III 11 10 00 22.4–.70 64.73N–.04 30.6E–.10 0 0.9L
NAO III 11 10 00 23.8–1.7 64.71N 30.90E 2.3L
KOLA III 11 10 00 23.9 64.74N 30.41E 0 2.3L
HEL III 11 10 00 23.3–.10 64.71N 30.67E 0 1.8L,0.9L
CSEM III 11 10 00 24.2–.55 64.74N 30.51E 2 1.8L,0.9L
BER III 11 10 00 26.2–5.4 64.74N 30.59E 0 2.3L,0.9L
ISC Event type km.
UPP Event type sm. Suspected Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=7.5km s-min=4.6km az=39.8.
KOLA Event type km.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=0.9km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=12.6km s-min=9.6km az=108.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=12.6km s-min=64.0km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

PRU III 11 12 07 46.5 49.86N 18.53E 0
¶16313881
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

NAO III 11 15 27 52.3–1.5 67.64N 33.79E 2.5L
CSEM III 11 15 27 52.5–.14 67.67N 33.70E 1 2.5L **¶16318204**
CSEM Event type sm. Error ellipse: s-maj=3.8km s-min=1.2km az=102.0. Suspected Mining explosion.

(548) Poland

PRU III 11 19 07 06.9 50.16N 19.07E 0
CSEM III 11 19 07 08.6–.71 50.28N 18.81E 1 **¶16313889**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=30.9km s-min=12.5km az=8.0.

(335) Ural Mountains region

ISC III 11 23 15 08.9–.82 53.12N–.05 56.20E–.09 35 16 3-25
IDC III 11 23 15 05.7–.74 53.02N 56.39E 0 3.7,3.6 **¶16476682**
ISCJB III 11 23 15 07.4–.66 53.03N–.06 55.9E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.

(383) Northwestern Balkan Peninsula

CSEM III 12 01 33 01.1 46.39N 15.07E 0
LJU III 12 01 33 01.1 46.39N 15.07E 0 0.8L **¶601123986**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(713) Central Kazakhstan

NNC III 12 11 38 48.0–1.3 50.82N 72.39E 0–11 3.5b,2.9
¶16587432
NNC Event type sm. Error ellipse: s-maj=11.1km s-min=5.5km az=31.0. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 12 12 03 07.7–1.5 67.56N–.04 34.00E–.08 0 74 0-12
ISCJB III 12 12 03 07.4–1.0 67.50N–.04 33.7E–.20 0 **¶603310073**
KOLA III 12 12 03 07.2 67.66N 34.11E 0
HEL III 12 12 03 08.8–.40 67.61N 33.97E 0 2.2L
CSEM III 12 12 03 09.6–.52 67.56N 33.72E 1 2.8L
NAO III 12 12 03 10.1–1.2 67.57N 33.84E 2.8L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=9.8km s-min=4.3km az=159.8.
KOLA Event type km.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=2.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=11.7km s-min=4.5km az=74.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 12 12 03 40.4–.45 25.25N–.04 110.02W–.05 10 4.6b 337 1-86
ISCJB III 12 12 03 39.6–.23 25.18N–.02 109.87W–.02 10 4.4b,4.0s **¶16310809**
IDC III 12 12 03 39.3–.61 25.18N 109.86W 0 4.3,4.2b
MEX III 12 12 03 40.7–.29 25.40N 109.98W 15–4 4.4,4.2b
NEIC III 12 12 03 41.1–.37 25.14N 109.79W 10 4.5b,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=135.7.
IDC Error ellipse: s-maj=17.1km s-min=9.1km az=94.0.
MEX Error ellipse: s-maj=1.8km s-min=2.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=59.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 12 12 19 46.7–1.8 67.58N–.05 34.26E–.09 0 57 0-12
CSEM III 12 12 19 47.8–1.2 67.57N 34.08E 2 2.2L **¶603310074**
HEL III 12 12 19 48.4–.50 67.57N 34.06E 0 2.1L
KOLA III 12 12 19 49.3 67.62N 33.99E 0 2.1L
NAO III 12 12 19 49.1–1.5 67.51N 33.90E 2.2L
ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=22.1km s-min=12.1km az=110.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.7km s-min=7.9km az=-1.0. Explosion.
KOLA Event type km.

(724) Baltic States-Belarus-Northwestern Russia

ISC III 12 12 17 54.0–.49 36.61N–.07 143.61E–.08 35 4.7b 56 4-153
IDC III 12 12 17 48.9–.48 36.66N 143.76E 0 4.8,4.7 **¶16318216**
ISCJB III 12 12 17 52.0–.34 36.55N–.06 143.61E–.06 33 4.6b,4.7
NEIC III 12 12 17 54.1–.27 36.65N 143.66E 35 4.7b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=14.9km s-min=13.4km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.5km az=143.7.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.0km az=146.0.

(547) Czech and Slovak Republics

CSEM III 12 14 41 19.5–.25 49.88N 18.43E 1 1.9L
IPEC III 12 14 41 20.0–.14 49.84N 18.51E 1–7 1.9L **¶16330921**
CSEM Event type ki. Error ellipse: s-maj=7.8km s-min=3.4km az=179.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=0.9km az=159.0.

(547) Czech and Slovak Republics

IPEC III 12 17 29 29.3–.18 49.82N 18.51E 0 1.2L
CSEM III 12 17 29 29.0–.27 49.85N 18.45E 1 1.2L **¶16330940**
PRU III 12 17 29 29.6 49.82N 18.46E 0 1.2L
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=159.0.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=3.4km az=165.0.
PRU Event type ki.

(460) Wyoming

ISC III 12 19 09 09.9–.77 43.78N–.03 105.32W–.03 0 97 1-11
IDC III 12 19 09 08.2–2.0 43.62N 105.31W 0 3.7,3.4 **¶17194554**
ISCJB III 12 19 09 09.4–.22 43.75N–.02 105.34W–.02 0 3.7,3.4
NEIC III 12 19 09 10.1–.45 43.79N 105.22W 0 3.7,3.4
ISC Event type sm.
IDC Error ellipse: s-maj=53.5km s-min=9.1km az=151.0.
ISCJB Event type fm. Error ellipse: s-maj=3.1km s-min=2.2km az=159.2.
NEIC Event type fm. Error ellipse: s-maj=6.7km s-min=5.8km az=145.0. 61 km [38 miles] SSE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU III 13 02 42 19.8 49.81N 18.60E 0
¶16331043
PRU Event type ki.

(366) Turkey

DDA III 13 12 38 18.3 39.63N 29.48E 7
CSEM III 13 12 38 18.7–.26 39.62N 29.49E 2 3.2 **¶601582410**
DDA Event type sm. Suspected Mining explosion.

CSEM Event type sm. Error ellipse: s-maj=5.8km s-min=5.0km az=13.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU III 13 14 21 39.7 49.88N 18.46E 0 ¶16331054

PRU Event type ki.

(548) Poland

PRU III 13 20 13 14.1 51.48N 16.21E 0
CSEM III 13 20 13 06.9–.42 51.82N 16.03E 1 **¶16331058**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.2km az=45.0.

(366) Turkey

ISC III 14 09 56 07.1–.83 39.55N–.03 29.85E–.03 0 44 0-2
ISK III 14 09 56 05.4 39.50N 29.89E 17 2.6 **¶16495297**
ISCJB III 14 09 56 06.6–.64 39.51N–.03 29.86E–.04 0 2.6
DDA III 14 09 56 07.8 39.58N 29.82E 7 2.6
CSEM III 14 09 56 07.1–.39 39.54N 29.78E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=3.9km az=143.6.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.7km s-min=5.9km az=137.0. Suspected Mining explosion.

(366) Turkey

ISC III 14 10 03 30.1–1.3 37.37N–.03 28.06E–.04 0 20 0-1
ISK III 14 10 03 30.8 37.36N 28.05E 26 2.5 **¶16495298**
CSEM III 14 10 03 32.3–.27 37.37N 28.06E 1 2.5
ISCJB III 14 10 03 32.4–.70 37.36N–.04 28.04E–.05 0 2.5
DDA III 14 10 03 34.5 37.50N 27.68E 7 2.5
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=6.2km s-min=4.8km az=56.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=4.9km az=145.5.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC III 14 10 06 07.4–1.1 37.35N–.03 28.03E–.03 0 28 0-1
ISK III 14 10 06 08.2 37.33N 28.02E 25 2.7 **¶16495299**
DDA III 14 10 06 08.8 37.33N 28.06E 7 2.7
CSEM III 14 10 06 09.3–.29 37.34N 28.05E 1 2.7
ISCJB III 14 10 06 09.5–.57 37.34N–.03 28.02E–.04 0 2.7
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC III 14 10 07 59.0–1.0 37.35N–.03 28.08E–.04 0 24 0-1
ISK III 14 10 07 59.3 37.36N 28.07E 26 2.8 **¶16495301**
DDA III 14 10 08 00.2 37.31N 28.10E 7 2.8
CSEM III 14 10 08 00.8–.32 37.34N 28.08E 1 2.8
ISCJB III 14 10 08 00.5–.78 37.33N–.03 28.09E–.05 0 2.8
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC III 14 10 21 55.4–.97 37.47N–.04 36.27E–.03 0 19 0-1
CSEM III 14 10 21 54.4–.59 37.43N 36.29E 1 2.7 **¶601582438**
ISCJB III 14 10 21 56.3–.68 37.56N–.04 36.20E–.04 0 2.7
DDA III 14 10 21 56.4 37.55N 36.21E 7 2.7
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=16.7km s-min=12.0km az=21.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=4.3km az=19.6.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC III 14 11 38 49.0–.78 39.99N–.03 33.50E–.03 0 47 0-2
CSEM III 14 11 38 49.4–.28 39.99N 33.57E 1 2.8 **¶16495305**
ISCJB III 14 11 38 49.6–.46 39.99N–.03 33.57E–.04 0 2.8
ISK III 14 11 38 49.2 40.03N 33.50E 12 2.8
DDA III 14 11 38 50.3 39.99N 33.60E 7 2.8
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=7.6km s-min=5.3km az=125.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.6km s-min=3.6km az=30.9.
DDA Event type sm. Suspected Mining explosion.

(713) Central Kazakhstan

NNC III 14 12 29 26.8–1.5 50.86N 73.68E 0 3.6b,3.2 ¶16591719

NNC Event type sm. Error ellipse: s-maj=19.6km s-min=12.2km az=50.0. Suspected Mining explosion.

(460) Wyoming

ISC III 14 20 10 09.4–.79 43.76N–.03 105.26W–.03 0 64 1-20
IDC III 14 20 10 06.6–1.5 43.40N 105.20W 0 3.7,3.4 **¶17195248**
NEIC III 14 20 10 07.0–.68 43.54N 105.11W 0 3.2L,3.4
ISCJB III 14 20 10 08.4–.30 43.73N–.03 105.36W–.03 0 3.2L,3.4
ISC Event type sm.
NEIC Event type fm. 81 km [50 miles] WSW of Newcastle. Suspected Mining explosion.
ISCJB Event type fm.

(548) Poland

ISC III 15 07 05 15.5–.83 50.10N–.04 18.40E–.02 0 43 0-3
ISCJB III 15 07 05 14.6–.56 50.11N–.03 18.34E–.03 0 **¶16331200**
IPEC III 15 07 05 15.9–.17 50.05N 18.45E 0–3 1.9L
CSEM III 15 07 05 15.4–.25 50.10N 18.36E 1 2.6L
PRU III 15 07 05 16.9 50.07N 18.34E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.9km s-min=2.6km az=8.5.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=5.6km s-min=2.9km az=179.0.
PRU Event type ki.

(329) Eastern Kazakhstan

NNC III 15 07 32 08.3–.51 50.01N 78.70E 0 3.5b,3.2 ¶16594145

NNC Event type sm. Error ellipse: s-maj=6.1km s-min=2.9km az=81.0. Suspected Mining explosion.

(366) Turkey

ISC III 15 08 51 02.9–.87 39.23N–.03 27.62E–.03 0 39 0-1
CSEM III 15 08 51 04.6–.54 39.18N 27.57E 1 2.7 **¶16495337**
ISK III 15 08 51 04.0 39.21N 27.57E 16 2.8
ISCJB III 15 08 51 05.7–.60 39.14N–.03 27.64E–.05 0 2.8
DDA III 15 08 51 06.5 39.15N 27.63E 7 2.8
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=11.8km s-min=9.7km az=116.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=3.9km az=15.1.
DDA Event type sm. Suspected Mining explosion.

(542) Denmark

ISC III 15 12 29 32.6–1.0 56.13N–.05 11.44E–.06 10 63 1-15
CSEM III 15 12 29 33.4–.22 56.16N 11.47E 5 2.1L **¶16336080**
UPP III 15 12 29 33.6–.90 56.16N 11.50E 4–4 2.5L
BER III 15 12 29 34.2–2.8 56.12N 11.53E 0–18 2.3,2.1L
NAO III 15 12 29 36.0–3.2 56.32N 11.17E 2.1L,2.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.6km az=40.0.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.1km az=-1.0. Suspected explosion.
BER Error ellipse: s-maj=14.4km s-min=22.8km az=-1.0.
NAO Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0.

(358) Romania

BEO III 15 12 43 59.0–.30 44.14N 22.09E 0 1.5
CSEM III 15 12 43 59.0 44.14N 22.09E 0 1.5L **¶601258367**
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(366) Turkey

ISC III 15 12 49 29.2–.81 40.48N–.02 39.58E–.02 0 54 0-2
CSEM III 15 12 49 29.8–.16 40.45N 39.53E 1 3.0 **¶16495339**
ISK III 15 12 49 29.4 40.50N 39.52E 11 3.0
ISCJB III 15 12 49 29.6–.39 40.47N–.03 39.53E–.03 0 3.0
DDA III 15 12 49 30.3 40.45N 39.50E 7 3.0
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=3.8km s-min=3.1km az=3.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.9km s-min=3.1km az=8.3.
DDA Event type sm. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

VIE III 15 18 42 20.7–.37 46.38N 15.08E 8–7 0.9L
CSEM III 15 18 42 20.1–.43 46.35N 15.13E 2 0.9L **¶601124010**
LJU III 15 18 42 20.8 46.39N 15.07E 0 1.6L
VIE Error ellipse: s-maj=2.3km s-min=1.1km az=5.0.
CSEM Event type km. Error ellipse: s-maj=9.0km s-min=3.6km az=154.0. Mining explosion.
LJU Rockburst.

(548) Poland

PRU III 15 19 33 27.0 51.51N 16.22E 0
CSEM III 15 19 33 27.0 51.51N 16.22E 0 **¶16331262**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

(547) Czech and Slovak Republics

ISC III 15 21 34 04.7–.66 49.85N–.02 18.47E–.01 0 116 0-12
ISCJB III 15 21 34 04.0–.27 49.84N–.02 18.40E–.02 0 **¶16331265**
CSEM III 15 21 34 04.9–.15 49.83N 18.46E 2 2.6L
PRU III 15 21 34 04.9 49.90N 18.44E 0 2.6L
IPEC III 15 21 34 05.1–.18 49.82N 18.56E 0–3 2.6L
IDC III 15 21 34 06.0–1.0 49.66N 18.58E 0 3.3,3.1
VIE III 15 21 34 08.2–.54 49.80N 18.22E 12–2 2.8L,2.3b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.0km s-min=1.8km az=20.2.
CSEM Event type ki. Error ellipse: s-maj=3.9km s-min=2.3km az=17.0.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
IDC Error ellipse: s-maj=19.4km s-min=8.0km az=155.0.
VIE Event type sr. Error ellipse: s-maj=6.1km s-min=4.1km az=14.0. Suspected Mining induced.

(536) Sweden

ISC III 16 00 26 01.5–.70 67.19N–.02 20.71E–.02 0 124 1-8
ISCJB III 16 00 26 00.5–.32 67.18N–.02 20.75E–.06 0 **¶16336083**
NAO III 16 00 26 01.8–.90 67.16N 20.97E 2.4L
UPP III 16 00 26 01.3–.10 67.19N 20.70E 0 2.0L
CSEM III 16 00 26 01.7–.19 67.19N 20.75E 2 2.0L
IDC III 16 00 26 02.2–1.1 67.16N 20.91E 0 3.0,2.9
HEL III 16 00 26 02.0–.00 67.20N 20.73E 0 2.2L,2.0L
BER III 16 00 26 03.5–4.0 67.17N 20.73E 0 2.4L,1.9L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.4km s-min=2.6km az=5.5.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.8km s-min=3.8km az=93.0. Mining explosion.
IDC Error ellipse: s-maj=20.9km s-min=9.6km az=109.0.
HEL Event type kh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=6.9km s-min=20.7km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

PRU III 16 04 24 19.0 49.77N 18.49E 0 ¶16340029

PRU Event type ki.

(548) Poland

ISC III 16 04 48 44.8–.76 51.54N–.03 16.07E–.02 0 87 1-6
ISCJB III 16 04 48 43.3–.34 51.52N–.02 16.10E–.03 0 **¶16339513**
CSEM III 16 04 48 45.1–.16 51.52N 16.05E 2 2.3b
UPP III 16 04 48 48.6–3.4 51.68N 15.54E 0 2.2L
VIE III 16 04 48 49.2–.65 51.23N 16.21E 0 2.7L,2.3b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.8km s-min=2.7km az=38.4.
CSEM Event type sr. Error ellipse: s-maj=5.3km s-min=2.6km az=101.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=4.7km s-min=4.0km az=49.0. Suspected Mining induced.

(548) Poland

PRU III 16 11 18 12.9 50.34N 18.89E 0 ¶16340034

PRU Event type ki.

(535) Southern Norway

BER III 16 14 18 33.5–1.5 58.29N 6.36E 0 2.1,1.4L
CSEM III 16 14 18 33.5 58.29N 6.36E 0 1.4L,1.4L **¶16911942**
BER Event type kh. Error ellipse: s-maj=5.8km s-min=8.5km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(383) Northwestern Balkan Peninsula

CSEM III 16 21 39 07.3–.99 46.39N 15.07E 0
LJU III 16 21 39 07.3 46.39N 15.07E 0 0.6L **¶601124018**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(646) Northern Norway

ISC III 16 22 23 18.2–1.0 69.41N–.03 23.93E–.02 12–8 126 0-7
NAO III 16 22 23 17.3–1.2 69.19N 24.03E 2.3L **¶16336089**
ISCJB III 16 22 23 18.4–.55 69.35N–.03 24.05E–.06 8–4 2.3L
CSEM III 16 22 23 18.9–.20 69.35N 24.03E 2 1.9L
BER III 16 22 23 19.6–2.4 69.33N 24.08E 0–9 2.3L,2.2
HEL III 16 22 23 19.2–.10 69.39N 23.95E 4–0 1.9L,1.8L
UPP III 16 22 23 20.7 69.28N 23.70E 0 1.5L,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=163.9.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.9km az=154.0.
BER Error ellipse: s-maj=4.7km s-min=9.5km az=-1.0.
HEL Error ellipse: s-maj=0.7km s-min=0.4km az=-1.0.

(383) Northwestern Balkan Peninsula

CSEM III 16 23 58 44.0 46.39N 15.07E 0
LJU III 16 23 58 44.0 46.39N 15.07E 0 1.5L **¶601124021**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(366) Turkey

ISC III 17 14 27 09.3–.97 37.24N–.03 28.23E–.04 0 25 0-1
CSEM III 17 14 27 09.3–.28 37.20N 28.22E 1 2.7 **¶16495382**
ISK III 17 14 27 09.1 37.13N 28.22E 12 2.7
ISCJB III 17 14 27 09.3–.66 37.23N–.04 28.20E–.05 0 2.7
DDA III 17 14 27 10.3 37.27N 28.11E 7 2.7
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=7.9km s-min=4.6km az=40.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.7km s-min=4.0km az=39.2.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

ISC III 17 19 05 31.3–.74 67.08N–.02 20.91E–.02 0 96 1-6
ISCJB III 17 19 05 30.8–.35 67.08N–.02 21.10E–.07 0 **¶602447644**
CSEM III 17 19 05 31.8–.22 67.09N 21.04E 2 2.2L
UPP III 17 19 05 31.4 67.07N 20.92E 0 1.7L
NAO III 17 19 05 32.8–1.6 67.10N 21.30E 2.4L
HEL III 17 19 05 32.2–.10 67.07N 20.93E 0 2.2L,1.7L
BER III 17 19 05 35.4–4.8 67.14N 21.11E 0 2.4L,1.7L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.9km s-min=2.6km az=176.5.
CSEM Event type km. Error ellipse: s-maj=5.8km s-min=4.0km az=83.0. Mining explosion.
UPP Event type km. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.9km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=10.7km s-min=45.0km az=-1.0. Suspected explosion.

(548) Poland

ISC III 17 22 52 11.6–.75 50.16N–.04 18.65E–.02 0 58 0-4
ISCJB III 17 22 52 10.6–.39 50.22N–.03 18.61E–.02 0 **¶16340065**
IPEC III 17 22 52 11.7–.18 50.22N 18.71E 0 1.9L
CSEM III 17 22 52 11.5–.19 50.25N 18.64E 2 2.5L

PRU III 17 22 52 12.5 50.23N 18.62E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.1km az=10.6.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=165.0.
CSEM Event type ki. Error ellipse: s-maj=5.5km s-min=2.4km az=179.0.
PRU Event type ki.

(383) Northwestern Balkan Peninsula

CSEM III 18 01 06 55.5–.99 46.39N 15.07E 0
LJU III 18 01 06 55.5 46.39N 15.07E 0 0.0L **¶601124036**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(547) Czech and Slovak Republics

ISC III 18 02 25 01.7–.83 49.97N–.04 18.55E–.02 0 42 0-3
CSEM III 18 02 25 01.8–.25 50.03N 18.57E 2 2.7L **¶16340068**
ISCJB III 18 02 25 01.3–.50 50.00N–.03 18.54E–.03 0 2.7L
IPEC III 18 02 25 02.2–.18 49.97N 18.64E 3–2 1.6L
PRU III 18 02 25 03.0 50.00N 18.52E 0 1.6L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.1km az=176.0.
ISCJB Event type ki. Error ellipse: s-maj=4.9km s-min=2.5km az=9.3.
IPEC Event type ki. Error ellipse: s-maj=2.3km s-min=1.1km az=161.0.
PRU Event type ki.

(547) Czech and Slovak Republics

PRU III 18 03 04 15.5 49.83N 18.57E 0
CSEM III 18 03 04 14.2–.80 49.80N 18.60E 1 1.3L **¶16340069**
IPEC III 18 03 04 15.7–.18 49.83N 18.57E 0 1.3L
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=10.6km s-min=8.7km az=80.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.

(548) Poland

PRU III 18 05 29 50.9 51.39N 16.18E 0
CSEM III 18 05 29 49.9–.62 51.42N 16.16E 1 **¶16340071**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.9km s-min=5.6km az=8.0.

(366) Turkey

ISC III 18 09 00 23.4–.85 39.48N–.03 29.70E–.03 0 33 0-1
DDA III 18 09 00 22.7 39.48N 29.71E 7 **¶16495398**
ISK III 18 09 00 22.5 39.40N 29.65E 18 2.1
CSEM III 18 09 00 23.6–.34 39.47N 29.67E 1 2.6
ISCJB III 18 09 00 23.4–.53 39.46N–.03 29.70E–.03 0 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(383) Northwestern Balkan Peninsula

BEO III 18 12 39 54.8–.28 44.44N 21.92E 0 1.7
CSEM III 18 12 39 53.5–.23 44.43N 21.91E 2 1.7L **¶601258382**
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=5.1km s-min=3.3km az=116.0. Mining explosion.

(548) Poland

ISC III 18 16 33 51.4–.48 51.52N–.02 16.17E–.02 0 3.6b 262 1-84
ISCJB III 18 16 33 49.8–.21 51.51N–.01 16.17E–.02 0 3.7b **¶16340073**
CSEM III 18 16 33 51.6–.16 51.51N 16.16E 1 3.3L
IDC III 18 16 33 52.4–.50 51.47N 16.11E 0 3.8,3.8
LDG III 18 16 33 52.5–.15 51.43N 16.13E 1 4.1L,3.8
UPP III 18 16 33 53.9–2.9 51.58N 15.60E 0 2.2L,3.8
PRU III 18 16 33 53.5 51.46N 16.11E 0 2.2L,3.8
BGR III 18 16 33 53.3–.46 51.49N 16.18E 1 3.5L,3.8
BNS III 18 16 33 53.6–.60 51.19N 16.24E 5 3.2L,3.8
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.1km s-min=1.7km az=15.7.
CSEM Event type ki. Error ellipse: s-maj=3.5km s-min=3.0km az=27.0.
IDC Error ellipse: s-maj=9.5km s-min=6.0km az=109.0.
LDG Event type sr. Error ellipse: s-maj=3.9km s-min=1.9km az=7.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=4.4km az=5.0.
BNS Event type ke.

(460) Wyoming

ISC III 18 18 08 04.9–.81 43.54N–.04 105.20W–.03 0 51 1-9
IDC III 18 18 08 01.3–3.0 43.07N 105.11W 0 3.7,3.5 **¶17197066**
NEIC III 18 18 08 05.9–.88 43.64N 105.19W 0 3.1L,3.5
ISCJB III 18 18 08 05.5–.33 43.67N–.04 105.29W–.03 0 3.1L,3.5
ISC Event type sm.
NEIC Event type fm. 77 km [48 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(548) Poland

ISC III 19 05 37 27.4–.72 51.48N–.03 16.20E–.02 0 124 1-19
ISCJB III 19 05 37 26.5–.42 51.43N–.02 16.18E–.02 0 **¶16340082**
CSEM III 19 05 37 28.0–.22 51.44N 16.21E 2 2.9L
IDC III 19 05 37 28.7–.79 51.44N 16.07E 0 3.3,3.2
BGR III 19 05 37 29.2–.54 51.42N 16.20E 1 3.0L,3.2
PRU III 19 05 37 29.7 51.41N 16.15E 0 3.0L,3.2
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.4km s-min=1.9km az=18.1.
CSEM Event type ki. Error ellipse: s-maj=4.0km s-min=2.3km az=25.0.
IDC Error ellipse: s-maj=17.4km s-min=7.1km az=101.0.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=4.4km az=121.0.
PRU Event type ki.

(366) Turkey

ISC III 19 07 19 46.3–.93 37.19N–.04 28.14E–.03 0 25 0-2
ISK III 19 07 19 45.7 37.09N 28.15E 13 2.7 **¶16495439**
DDA III 19 07 19 46.6 37.23N 28.20E 7 2.7
CSEM III 19 07 19 46.8–.25 37.20N 28.18E 1 2.7
ISCJB III 19 07 19 46.7–.57 37.21N–.04 28.18E–.05 0 2.7
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC III 19 10 04 54.7–.00 37.13N–.04 37.20E–.03 0 22 0-1
ISK III 19 10 04 53.1 37.10N 37.22E 5 2.1 **¶16495443**
CSEM III 19 10 04 55.6–.53 37.19N 37.22E 1 2.1
ISCJB III 19 10 04 55.7–.69 37.16N–.05 37.23E–.05 0 2.1
DDA III 19 10 04 56.2 37.17N 37.24E 7 2.1
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=13.2km s-min=12.1km az=26.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.4km s-min=4.5km az=29.3.
DDA Event type sm. Suspected Mining explosion.

(713) Central Kazakhstan

ISC III 19 10 10 26.6–1.2 50.9N–.10 73.5E–.10 0 16 2-60
ISCJB III 19 10 10 24.1–1.1 50.9N–.10 73.4E–.20 0 3.8s,3.1b **¶16479404**
IDC III 19 10 10 28.2–1.6 50.92N 73.64E 0 4.0s,3.8
NNC III 19 10 10 29.7–.86 51.48N 74.06E 0 3.3b,3.0
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=26.0km s-min=5.9km az=35.0.
IDC Error ellipse: s-maj=34.6km s-min=8.0km az=33.0.
NNC Event type sm. Error ellipse: s-maj=34.6km s-min=3.1km az=23.0. Suspected Mining explosion.

(366) Turkey

ISC III 19 10 15 05.1–.77 37.38N–.03 27.94E–.03 0 44 0-2
DDA III 19 10 15 05.8 37.37N 28.08E 7 **¶16495445**
CSEM III 19 10 15 06.1–.24 37.35N 28.06E 1 2.9
ISK III 19 10 15 06.0 37.34N 28.03E 9 2.9
ISCJB III 19 10 15 06.2–.42 37.35N–.03 28.04E–.03 0 2.9
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC III 19 10 18 30.8–.77 37.36N–.02 27.87E–.03 0 43 0-2
DDA III 19 10 18 31.9 37.36N 28.00E 7 **¶16495446**
CSEM III 19 10 18 31.9–.24 37.34N 28.06E 2 2.9
ISK III 19 10 18 31.4 37.34N 28.07E 12 2.9
ISCJB III 19 10 18 31.8–.45 37.34N–.03 28.07E–.03 0 2.9
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(721) Finland

ISC III 19 11 21 51.6–.64 60.60N–.02 25.23E–.02 0 290 0-9
ISCJB III 19 11 21 51.0–.28 60.68N–.02 25.28E–.04 0 **¶16338689**
CSEM III 19 11 21 52.7–.14 60.62N 25.32E 1–0 2.6L
NAO III 19 11 21 52.0–1.0 60.60N 25.30E 2.8L
HEL III 19 11 21 53.3–.10 60.56N 25.30E 5 2.8L,2.6L
NEIC III 19 11 21 53.3 60.57N 25.30E 3 2.6L,2.5L
BER III 19 11 21 53.3–3.9 60.59N 25.26E 0 2.8L,2.5L
UPP III 19 11 21 54.6–1.8 60.57N 25.09E 0 2.5L,2.5L
IDC III 19 11 21 54.7–1.9 60.78N 25.01E 0 3.6,3.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=2.6km s-min=2.6km az=141.8.
CSEM Event type sm. Error ellipse: s-maj=3.3km s-min=2.9km az=128.0. Suspected Mining explosion.
HEL Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0.
NEIC Event type fe. Felt at Hyvinkaa, Jarvenpaa, Mantsala, Nurmijarvi and Tuusula. After HEL.
BER Event type sh. Error ellipse: s-maj=7.3km s-min=15.5km az=-1.0. Suspected explosion.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=24.6km s-min=5.4km az=147.0.

(366) Turkey

ISC III 19 13 45 02.5–.81 41.37N–.03 35.85E–.02 0 54 0-3
DDA III 19 13 45 01.5 41.41N 35.88E 4 **¶16495449**
CSEM III 19 13 45 02.9–.28 41.36N 35.86E 1 2.7
ISK III 19 13 45 02.3 41.41N 35.92E 13 2.8
ISCJB III 19 13 45 03.1–.43 41.39N–.03 35.86E–.03 0 2.8
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC III 19 15 02 01.2–.97 37.21N–.03 28.16E–.03 0 29 0-2
DDA III 19 15 01 59.8 37.24N 28.23E 7 **¶16495451**
ISK III 19 15 01 59.2 37.21N 28.18E 14 2.6
ISCJB III 19 15 02 00.1–.58 37.24N–.04 28.20E–.04 0 2.6
CSEM III 19 15 02 00.3–.31 37.23N 28.18E 1 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.6km s-min=3.6km az=35.9.
CSEM Event type sm. Error ellipse: s-maj=9.3km s-min=4.9km az=37.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU III 20 01 39 30.0 49.82N 18.53E 0
CSEM III 20 01 39 28.0–.83 49.80N 18.63E 1 0.8L **¶16354473**
IPEC III 20 01 39 29.5–.18 49.82N 18.59E 0 0.8L
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=11.4km s-min=8.7km az=76.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.

(536) Sweden

ISC III 20 04 39 09.8–.76 67.83N–.02 20.20E–.02 0 70 0-8
CSEM III 20 04 39 09.8–.28 67.85N 20.23E 2 0.9L **¶16462017**
ISCJB III 20 04 39 09.3–.51 67.84N–.03 20.17E–.09 0 0.9L
UPP III 20 04 39 09.8 67.86N 20.14E 0 0.9L
HEL III 20 04 39 10.4–.10 67.86N 20.13E 0 1.8L,0.9L
NAO III 20 04 39 11.0–1.1 67.89N 20.48E 2.1L,0.9L
BER III 20 04 39 12.2–3.1 67.92N 20.15E 0 2.1L,1.6L
ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=6.2km s-min=5.1km az=120.0. Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=5.0km s-min=3.6km az=16.4.
UPP Event type sm. Suspected Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.0km s-min=1.0km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=5.6km s-min=19.0km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

CSEM III 20 05 31 08.6–.23 49.85N 18.51E 1 1.4L
IPEC III 20 05 31 08.9–.18 49.82N 18.57E 0 1.4L **¶16354476**
CSEM Event type ki. Error ellipse: s-maj=8.0km s-min=3.1km az=177.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.

(548) Poland

ISC III 20 06 39 10.5–.74 51.59N–.02 16.10E–.02 0 129 1-7
ISCJB III 20 06 39 09.0–.33 51.56N–.02 16.13E–.03 0 **¶16354478**
CSEM III 20 06 39 11.0–.16 51.56N 16.09E 2 3.0L
PRU III 20 06 39 11.5 51.54N 16.09E 0 3.0L
BGR III 20 06 39 13.1–.51 51.52N 16.03E 1 3.0L
UPP III 20 06 39 14.5–2.9 51.75N 15.42E 0 1.6L
ISC Event type sh.
ISCJB Event type sh. Error ellipse: s-maj=2.7km s-min=2.2km az=38.4.
CSEM Event type ki. Error ellipse: s-maj=3.3km s-min=2.7km az=90.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=5.6km az=97.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(713) Central Kazakhstan

ISC III 20 09 13 16.5–.98 43.09N–.10 71.28E–.03 0 36 1-3
KRNET III 20 09 13 14.0–.10 43.43N 70.92E 2.5b **¶16633167**
NNC III 20 09 13 16.4–1.2 42.69N 71.16E 0 2.8b,2.0
SOME III 20 09 13 16.1 43.10N 71.38E 0 2.8b,2.0
ISCJB III 20 09 13 18.4–.43 43.05N–.07 71.26E–.03 0 2.8b,2.0
ISC Event type sm.
NNC Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(536) Sweden

HEL III 20 15 07 38.0–.40 67.82N 20.21E 0 1.4L
¶600711750
HEL Event type kh. Error ellipse: s-maj=1.5km s-min=2.4km az=-1.0. Explosion.

(383) Northwestern Balkan Peninsula

BEO III 20 16 01 00.0–1.3 44.08N 19.20E 0 1.4
CSEM III 20 16 01 00.0 44.08N 19.20E 0 1.4L **¶601258389**
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(460) Wyoming

ISC III 20 17 56 19.8–1.2 43.69N–.08 105.47W–.05 0 19 1-9
IDC III 20 17 56 23.1–2.6 43.50N 105.08W 0 3.5,3.4 **¶17197512**
NEIC III 20 17 56 25.7–1.3 44.14N 105.35W 0 2.8L,3.4
ISC Event type sm.
IDC Error ellipse: s-maj=65.4km s-min=9.0km az=153.0.
NEIC Event type fm. Error ellipse: s-maj=22.1km s-min=14.2km az=163.0. 22 km [13 miles] SE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU III 21 02 48 51.6 49.78N 18.55E 0
CSEM III 21 02 48 52.8–.39 49.65N 18.34E 2 **¶16354500**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=12.6km s-min=3.7km az=21.0.

(548) Poland

PRU III 21 05 49 52.7 50.21N 19.23E 0
CSEM III 21 05 49 51.7–.36 50.27N 19.24E 1 **¶16354504**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=12.0km s-min=3.8km az=9.0.

(329) Eastern Kazakhstan

ISC III 21 07 36 31.4–.91 50.06N–.05 78.76E–.07 0 27 1-7
ISCJB III 21 07 36 29.8–.67 50.02N–.03 78.7E–.10 0 **¶16479939**
NNC III 21 07 36 30.4–.32 50.04N 78.71E 0 3.2b,2.8
IDC III 21 07 36 31.1–1.1 50.09N 78.76E 0 2.7,2.7
ISC Event type sm.

ISCJB Event type sm. Error ellipse: s-maj=12.9km s-min=3.5km az=164.1.
NNC Event type sm. Error ellipse: s-maj=6.5km s-min=1.7km az=75.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=15.4km s-min=6.4km az=66.0.

(320) Kyrgyzstan-Xinjiang border region

ISC	**III**	**21 08 10 35.3–1.6**	**41.88N–.08**	**78.16E–.05**	**0**		**26**	**1-3**
KRNET	III	21 08 10 34.5–.10	41.86N	78.13E	10	2.0b		**¶16633202**
ISCJB	III	21 08 10 35.9–1.0	41.89N–.05	78.18E–.06	0	2.0b		
NNC	III	21 08 10 36.8–6.5	41.84N	78.28E	0	3.0b,2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.9km s-min=4.3km az=145.2.
NNC Event type sm. Error ellipse: s-maj=65.9km s-min=16.5km az=159.0. Suspected Mining explosion.

(366) Turkey

ISC	**III**	**21 10 37 23.4–.88**	**37.37N–.03**	**28.04E–.04**	**0**		**26**	**0-1**
DDA	III	21 10 37 25.4	37.37N	28.03E	7			**¶16495497**
CSEM	III	21 10 37 25.8–.32	37.30N	28.04E	1	2.6		
ISK	III	21 10 37 25.7	37.26N	28.03E	7	2.6		
ISCJB	III	21 10 37 25.6–.56	37.31N–.03	28.05E–.04	0	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(383) Northwestern Balkan Peninsula

LJU	**III**	**21 13 12 13.4**	**45.95N**	**14.30E**	**0**	**0.7L**		
CSEM	III	21 13 12 13.4	45.94N	14.30E	0	0.7L		**¶601124065**

LJU Artificial.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(460) Wyoming

ISC	**III**	**21 19 05 55.6–.78**	**43.76N–.04**	**105.28W–.04**	**0**		**68**	**1-90**
IDC	III	21 19 05 55.0–1.4	43.93N	105.52W	0	3.5,3.5b		**¶17197739**
NEIC	III	21 19 05 55.6–.46	43.80N	105.21W	0	3.1L,3.5b		
ISCJB	III	21 19 05 55.6–.27	43.74N–.03	105.33W–.03	0	3.6b,3.5b		

ISC Event type sm.
NEIC Event type fm. 59 km [37 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(536) Sweden

HEL	**III**	**22 00 33 16.8**	**67.84N**	**19.84E**	**0**	**1.6L**		
CSEM	III	22 00 33 17.7–.29	67.82N	20.26E	2	0.8L		**¶602003385**
UPP	III	22 00 33 18.0	67.83N	20.20E	7	0.8L		

HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=6.1km s-min=5.4km az=5.0. Mining explosion.
UPP Event type km. Mining explosion.

(536) Sweden

CSEM	**III**	**22 00 33 20.6–.09**	**67.81N**	**20.22E**	**2**	**1.0L**		
UPP	III	22 00 33 20.8	67.82N	20.21E	0	1.0L		**¶600711806**

CSEM Event type km. Error ellipse: s-maj=2.1km s-min=1.3km az=172.0. Mining explosion.
UPP Event type km. Mining explosion.

(383) Northwestern Balkan Peninsula

CSEM	**III**	**22 03 28 16.9–99**	**46.39N**	**15.07E**	**0**			
LJU	III	22 03 28 16.9	46.39N	15.07E	0	0.9L		**¶601124072**

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(547) Czech and Slovak Republics

PRU	**III**	**22 04 12 20.5**	**49.80N**	**18.56E**	**0**			
								¶16354526

PRU Event type ki.

(366) Turkey

ISC	**III**	**22 10 54 01.4–.81**	**39.78N–.04**	**30.80E–.03**	**0**		**36**	**0-2**
DDA	III	22 10 54 01.4	39.73N	30.73E	7			**¶16495527**
CSEM	III	22 10 54 02.5–.24	39.67N	30.73E	1	2.9		
ISCJB	III	22 10 54 02.5–.46	39.69N–.03	30.73E–.04	0	2.9		
ISK	III	22 10 54 02.8	39.67N	30.72E	5	2.7		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.9km s-min=4.8km az=37.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.7km az=26.8.

(366) Turkey

ISC	**III**	**22 11 40 19.4–.92**	**40.52N–.03**	**37.71E–.03**	**0**		**34**	**0-10**
DDA	III	22 11 40 20.7	40.53N	37.68E	7			**¶16495529**
CSEM	III	22 11 40 20.9–.22	40.52N	37.71E	1	2.5		
ISCJB	III	22 11 40 20.7–.46	40.54N–.03	37.71E–.03	0	2.5		
ISK	III	22 11 40 20.1	40.45N	37.77E	4	2.5		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=3.8km az=155.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.3km az=166.9.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**III**	**22 14 18 33.2–.68**	**59.72N–.03**	**21.31E–.02**	**0**		**73**	**1-10**
ISCJB	III	22 14 18 34.1–.38	59.73N–.03	21.28E–.04	0			**¶17198016**
CSEM	III	22 14 18 35.1–.22	59.71N	21.27E	2	2.0L		
UPP	III	22 14 18 35.4–.70	59.71N	21.17E	0	2.0L		
HEL	III	22 14 18 35.4–.10	59.69N	21.27E	0	2.0L,1.5L		
IDC	III	22 14 18 35.4–2.1	59.67N	21.34E	0	3.1,3.0		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=3.1km az=178.3.
CSEM Event type km. Error ellipse: s-maj=6.1km s-min=4.5km az=177.0. Mining explosion.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.1km az=-1.0. Suspected explosion.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=0.8km az=-1.0. Explosion.
IDC Error ellipse: s-maj=31.1km s-min=7.5km az=169.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**III**	**22 14 21 56.9–.71**	**59.77N–.02**	**21.34E–.02**	**0**		**96**	**1-10**
ISCJB	III	22 14 21 58.5–.34	59.71N–.03	21.26E–.04	0			**¶17198017**
CSEM	III	22 14 21 59.4–.18	59.71N	21.25E	2	2.1L		
IDC	III	22 14 21 59.7–1.9	59.64N	21.38E	0	3.2,3.1		
HEL	III	22 14 21 59.7–.10	59.68N	21.26E	0	2.1L,3.1		
UPP	III	22 14 22 00.0–.60	59.69N	21.10E	0	2.1L,3.1		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=2.6km az=5.5.
CSEM Event type km. Error ellipse: s-maj=5.3km s-min=3.4km az=2.0. Mining explosion.
IDC Error ellipse: s-maj=25.5km s-min=7.9km az=164.0.
HEL Event type kh. Error ellipse: s-maj=1.0km s-min=0.7km az=-1.0. Explosion.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.1km az=-1.0. Suspected explosion.

(383) Northwestern Balkan Peninsula

CSEM	**III**	**22 14 57 25.7–99**	**46.39N**	**15.07E**	**0**			
LJU	III	22 14 57 25.7	46.39N	15.07E	0	0.4L		**¶601124076**

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(374) Jordan-Syria region

ISC	**III**	**22 15 23 29.6–.93**	**36.80N–.05**	**36.76E–.05**	**0**		**20**	**0-2**
ISK	III	22 15 23 29.6	36.77N	36.70E	20	2.3		**¶16495538**
ISCJB	III	22 15 23 29.8–.67	36.81N–.05	36.72E–.06	0	2.3		
CSEM	III	22 15 23 30.0–.52	36.78N	36.72E	1	2.6		
DDA	III	22 15 23 38.7	37.27N	37.15E	2	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.5km s-min=4.6km az=44.1.
CSEM Event type sm. Error ellipse: s-maj=23.5km s-min=10.1km az=136.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

ISC	**III**	**22 19 22 35.5–.97**	**67.10N–.04**	**20.98E–.04**	**0**		**47**	**1-5**
HEL	III	22 19 22 31.7–.20	66.82N	20.89E	0	2.5L		**¶600711837**
CSEM	III	22 19 22 34.2–.28	67.15N	21.72E	1	2.2L		
UPP	III	22 19 22 36.0–.20	67.07N	20.96E	0	2.2L		

ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=4.9km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.9km s-min=6.1km az=86.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.

(547) Czech and Slovak Republics

PRU	**III**	**22 19 42 25.7**	**49.79N**	**18.50E**	**0**			
								¶16354539

PRU Event type ki.

(535) Southern Norway

ISC	**III**	**23 11 45 01.7–.78**	**59.13N–.03**	**5.91E–.03**	**0**		**72**	**0-13**
UPP	III	23 11 44 54.1–3.2	59.24N	4.71E	0	2.3L		**¶16349365**
ISCJB	III	23 11 45 01.2–.48	59.10N–.03	5.87E–.06	0	2.3L		
CSEM	III	23 11 45 01.9–.21	59.10N	5.83E	1	2.2L		
IDC	III	23 11 45 01.7–2.2	59.20N	5.45E	0	3.5,3.4		
BER	III	23 11 45 03.3–3.0	59.10N	5.84E	0	2.2L,2.1L		
NAO	III	23 11 45 07.4–2.8	59.42N	6.13E		2.1L,2.1L		

ISC Event type sm.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.5km az=-1.0. Suspected explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.7km s-min=3.5km az=142.2.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=3.4km az=55.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=42.5km s-min=20.9km az=153.0.
BER Event type sh. Error ellipse: s-maj=4.7km s-min=9.3km az=-1.0. Suspected explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**III**	**23 12 03 43.0–1.1**	**59.28N–.03**	**27.62E–.05**	**0**		**40**	**1-7**
FIA0	III	23 12 03 39.3	59.15N	27.59E	0	1.8L		**¶16401088**
ISCJB	III	23 12 03 42.6–.79	59.25N–.03	27.63E–.09	0	1.8L		
CSEM	III	23 12 03 43.6–.47	59.24N	27.64E	2	1.5L		
NAO	III	23 12 03 43.2–1.8	59.26N	27.46E		2.2L		
BER	III	23 12 03 45.5–.59	59.25N	27.44E	0	2.2L		

ISC Event type km.
FIA0 Event type kh. Explosion.
ISCJB Event type km. Error ellipse: s-maj=7.0km s-min=4.2km az=17.4.
CSEM Event type km. Error ellipse: s-maj=10.4km s-min=5.6km az=116.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
BER Event type sh. Error ellipse: s-maj=1.4km s-min=5.9km az=-1.0. Suspected explosion.

(366) Turkey

ISC	**III**	**23 13 55 56.1–1.1**	**37.28N–.04**	**28.21E–.04**	**0**		**22**	**0-2**
ISK	III	23 13 55 55.4	37.22N	28.26E	24	2.5		**¶16495573**
ISCJB	III	23 13 55 56.9–.72	37.25N–.04	28.25E–.05	0	2.5		
DDA	III	23 13 55 57.8	37.27N	28.20E	7	2.5		
CSEM	III	23 13 55 57.2–.37	37.25N	28.24E	2	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.0km s-min=5.0km az=36.7.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=10.3km s-min=6.0km az=42.0. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

BEO	**III**	**23 14 57 52.6–.72**	**44.07N**	**19.13E**	**0**	**1.4**		
CSEM	III	23 14 57 52.6	44.07N	19.13E	0	1.4L		**¶601258408**

BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(547) Czech and Slovak Republics

PRU	**III**	**24 02 05 49.9**	**49.87N**	**18.41E**	**0**			
								¶16373206

PRU Event type ki.

(329) Eastern Kazakhstan

ISC	**III**	**24 07 30 47.7–1.3**	**50.02N–.08**	**78.8E–.20**	**0**		**27**	**1-5**
NNC	III	24 07 30 46.9–.43	50.07N	78.99E	0	2.8b,2.7		**¶16480570**
ISCJB	III	24 07 30 46.5–.94	50.01N–.07	78.8E–.20	0	2.8b,2.7		
IDC	III	24 07 30 48.4–1.1	50.07N	78.77E	0	2.9,2.9		

ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=11.9km s-min=2.1km az=62.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=23.9km s-min=3.8km az=156.2.
IDC Error ellipse: s-maj=18.0km s-min=6.8km az=66.0.

(329) Eastern Kazakhstan

NNC	**III**	**24 08 34 02.2–2.6**	**50.87N**	**75.66E**	**0**	**3.5b,3.2**		
								¶16647837

NNC Event type sm. Error ellipse: s-maj=65.3km s-min=7.9km az=19.0. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**III**	**24 09 02 42.0–.70**	**59.78N–.02**	**22.29E–.02**	**0**		**167**	**1-10**
ISCJB	III	24 09 02 42.1–.30	59.85N–.02	22.30E–.04	0			**¶16401091**
IDC	III	24 09 02 43.9–1.7	59.75N	22.33E	0	3.2,3.1		
CSEM	III	24 09 02 43.4–.14	59.78N	22.29E	2	2.5L,3.1		
HEL	III	24 09 02 43.6–.10	59.74N	22.28E	0	2.4L,2.3L		
NAO	III	24 09 02 44.0–1.6	59.86N	22.23E		2.2L,2.3L		
UPP	III	24 09 02 44.8–.90	59.76N	22.06E	0	2.3L,2.3L		
BER	III	24 09 02 45.7–4.2	59.90N	22.25E	0	2.2L,2.3L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.4km s-min=2.6km az=161.0.
IDC Error ellipse: s-maj=22.3km s-min=7.7km az=162.0.
CSEM Event type km. Error ellipse: s-maj=3.8km s-min=2.8km az=160.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.4km az=-1.0. Explosion.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.1km az=-1.0. Suspected explosion.
BER Event type sh. Error ellipse: s-maj=25.0km s-min=20.6km az=-1.0. Suspected explosion.

(366) Turkey

ISC	**III**	**24 09 19 42.2–.77**	**39.72N–.02**	**29.41E–.03**	**0**		**47**	**0-2**
ISK	III	24 09 19 41.5	39.67N	29.30E	8	2.5		**¶16495610**
DDA	III	24 09 19 42.5	39.68N	29.53E	7	2.5		
ISCJB	III	24 09 19 42.5–.41	39.68N–.02	29.43E–.04	0	2.5		
CSEM	III	24 09 19 42.4–.25	39.69N	29.45E	1	2.5		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.4km s-min=3.1km az=176.4.
CSEM Event type sm. Error ellipse: s-maj=6.0km s-min=4.8km az=86.0. Suspected Mining explosion.

(366) Turkey

ISC	**III**	**24 09 52 23.6–.87**	**41.00N–.03**	**36.19E–.04**	**0**		**38**	**0-2**
ISK	III	24 09 52 24.4	41.02N	36.10E	6	2.5		**¶16495611**
DDA	III	24 09 52 25.6	41.02N	36.02E	7	2.5		
ISCJB	III	24 09 52 25.3–.51	41.00N–.03	36.03E–.04	0	2.5		
CSEM	III	24 09 52 25.2–.25	41.00N	36.03E	1	2.5		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.4km s-min=4.0km az=142.9.
CSEM Event type sm. Error ellipse: s-maj=5.5km s-min=5.0km az=51.0. Suspected Mining explosion.

(367) Turkey-Georgia-Armenia border region

DDA	**III**	**24 14 03 22.4**	**41.21N**	**41.94E**	**7**			
								¶602442643

DDA Event type sm. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**III**	**25 10 54 55.0–1.6**	**67.69N–.04**	**33.94E–.09**	**0**		**66**	**0-12**
IDC	III	25 10 54 54.4–1.9	67.84N	34.28E	0	3.6,3.6		**¶16401160**
ISCJB	III	25 10 54 56.4–1.1	67.73N–.03	33.6E–.20	0	3.6,3.6		
CSEM	III	25 10 54 56.1–.60	67.72N	33.84E	2	3.0L,3.6		
NAO	III	25 10 54 56.2–1.2	67.73N	33.77E		3.0L,3.6		
HEL	III	25 10 54 57.1–.40	67.70N	33.79E	0	2.7L,3.6		

ISC Event type km.
IDC Error ellipse: s-maj=21.5km s-min=11.6km az=75.0.
ISCJB Event type km. Error ellipse: s-maj=8.9km s-min=4.9km az=178.6.
CSEM Event type km. Error ellipse: s-maj=12.0km s-min=6.9km az=95.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.8km s-min=2.7km az=-1.0. Explosion.

(548) Poland

ISC	**III**	**25 13 20 00.4–.80**	**51.51N–.03**	**16.23E–.03**	**0**		**66**	**1-19**
ISCJB	III	25 13 19 59.3–.57	51.47N–.03	16.23E–.04	0			**¶16373225**
CSEM	III	25 13 20 01.3–.46	51.46N	16.22E	2	2.8L		
PRU	III	25 13 20 02.5	51.43N	16.20E	0	2.8L		
IDC	III	25 13 20 02.3–.92	51.41N	16.23E	0	3.6,3.5		
VIE	III	25 13 20 03.3–.44	51.29N	16.20E	0–2	3.0L,2.5b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.1km s-min=3.4km az=22.4.
CSEM Event type ki. Error ellipse: s-maj=7.5km s-min=4.7km az=175.0.

PRU Event type ki.
IDC Error ellipse: s-maj=19.3km s-min=8.0km az=108.0.
VIE Event type sr. Error ellipse: s-maj=2.3km s-min=1.6km az=177.0. Suspected Mining induced.

(366) Turkey

ISC	**III**	**25 14 02 52.3–.81**	**39.97N–.03**	**32.27E–.02**	**0**		**47**	**0-2**
DDA	III	25 14 02 52.4	39.97N	32.26E	7			**¶16495666**
CSEM	III	25 14 02 52.3–.20	39.95N	32.29E	2	2.6		
ISK	III	25 14 02 52.1	39.90N	32.29E	8	2.6		
ISCJB	III	25 14 02 52.2–.46	39.95N–.03	32.30E–.03	0	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(535) Southern Norway

CSEM	**III**	**25 14 19 25.5–.51**	**58.37N**	**6.48E**	**1**	**1.6L**		
BER	III	25 14 19 26.9–2.1	58.33N	6.48E	0	2.1,1.6L		**¶16389100**
NAO	III	25 14 19 29.3–3.0	58.59N	6.52E		1.5L,1.6L		

CSEM Event type km. Error ellipse: s-maj=11.6km s-min=3.8km az=31.0. Mining explosion.
BER Event type kh. Error ellipse: s-maj=6.2km s-min=8.1km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.

(713) Central Kazakhstan

ISC	**III**	**26 08 24 23.8–1.1**	**43.04N–.06**	**71.61E–.03**	**0**		**25**	**1-3**
NNC	III	26 08 24 24.3–.61	42.77N	71.45E	0	3.0b,2.2		**¶16681406**
ISCJB	III	26 08 24 25.3–.64	42.91N–.06	71.48E–.05	0	3.0b,2.2		
KRNET	III	26 08 24 25.7–.10	42.89N	71.65E	12	2.6b,2.2		

ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=10.0km s-min=3.2km az=20.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=9.5km s-min=4.2km az=15.7.

(383) Northwestern Balkan Peninsula

CSEM	**III**	**26 12 26 49.9–99**	**46.39N**	**15.07E**	**0**			
LJU	III	26 12 26 49.9	46.39N	15.07E	0	0.8L		**¶601124112**

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(548) Poland

ISC	**III**	**26 16 53 00.1–1.1**	**51.54N–.05**	**16.07E–.03**	**0**		**53**	**1-4**
ISCJB	III	26 16 52 58.0–.72	51.54N–.04	16.10E–.03	0			**¶16373242**
CSEM	III	26 16 52 59.7–.50	51.52N	16.08E	2	2.5L		
PRU	III	26 16 53 01.1	51.52N	16.03E	0	2.5L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.9km az=9.2.
CSEM Event type ki. Error ellipse: s-maj=8.2km s-min=4.9km az=2.0.
PRU Event type ki.

(460) Wyoming

ISC	**III**	**26 18 36 53.2–.63**	**43.71N–.03**	**105.30W–.04**	**0**	**3.7b**	**75**	**1-90**
ISCJB	III	26 18 36 53.5–.24	43.69N–.02	105.37W–.02	0	3.8b,3.2s		**¶17198672**
NEIC	III	26 18 36 54.0–.30	43.77N	105.25W	0	3.2L,3.2s		
IDC	III	26 18 36 54.4–.75	44.01N	105.77W	0	3.8b,3.7		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.5km s-min=2.3km az=155.1.
NEIC Event type fm. Error ellipse: s-maj=4.9km s-min=4.3km az=158.0. 61 km [38 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=21.2km s-min=7.7km az=145.0.

(548) Poland

ISC	**III**	**26 19 34 56.5–.83**	**51.59N–.04**	**16.17E–.02**	**0**		**65**	**1-11**
ISCJB	III	26 19 34 54.6–.46	51.57N–.02	16.19E–.03	0			**¶16373246**
CSEM	III	26 19 34 56.8–.39	51.53N	16.18E	2	2.4L		
IPEC	III	26 19 34 56.2–.30	51.59N	16.26E	0	1.9L		
PRU	III	26 19 34 58.0	51.54N	16.12E	0	1.9L		
IDC	III	26 19 34 59.1–1.1	51.44N	16.17E	0	3.1,2.9		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.6km s-min=2.8km az=9.6.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=4.0km az=5.0.
IPEC Event type ki. Error ellipse: s-maj=3.2km s-min=1.7km az=66.0.
PRU Event type ki.
IDC Error ellipse: s-maj=15.8km s-min=8.9km az=121.0.

(536) Sweden

ISC	**III**	**27 00 43 36.4–.73**	**67.81N–.02**	**20.25E–.03**	**0**		**103**	**0-10**
ISCJB	III	27 00 43 35.4–.46	67.82N–.02	20.22E–.09	0			**¶16408653**
UPP	III	27 00 43 36.3–.30	67.83N	20.21E	0	1.7L		
HEL	III	27 00 43 36.9–.10	67.84N	20.23E	0	2.0L,1.7L		
CSEM	III	27 00 43 36.9–.21	67.84N	20.32E	2	1.7L,1.7L		
NAO	III	27 00 43 36.6–.90	67.82N	20.38E		2.4L,1.7L		
IDC	III	27 00 43 37.8–1.2	67.80N	20.47E	0	2.9,2.8		
BER	III	27 00 43 38.2–4.5	67.86N	20.22E	0	2.4L,1.8L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.7km s-min=3.1km az=10.5.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=1.1km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.3km s-min=3.7km az=102.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=8.7km az=117.0.
BER Event type sh. Error ellipse: s-maj=7.3km s-min=24.0km az=-1.0. Suspected explosion.

(366) Turkey

DDA	**III**	**27 07 16 01.7**	**39.66N**	**29.46E**	**7**			
CSEM	III	27 07 16 01.7–.28	39.67N	29.47E	2	2.7		**¶601582803**

DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.7km s-min=5.5km az=89.0. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

BEO	**III**	**27 07 45 10.6–.77**	**44.08N**	**19.06E**	**0**	**1.4**		
CSEM	III	27 07 45 10.5–.39	44.11N	19.12E	1	1.4L		**¶601258501**

BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=7.8km s-min=6.9km az=12.0. Mining explosion.

(366) Turkey

ISC	**III**	**27 10 54 25.7–.84**	**37.29N–.04**	**28.18E–.03**	**0**		**36**	**0-2**
DDA	III	27 10 54 26.2	37.25N	28.26E	7			**¶16495731**
CSEM	III	27 10 54 26.3–.22	37.26N	28.22E	1	2.6		
ISK	III	27 10 54 26.0	37.25N	28.19E	11	2.6		
ISCJB	III	27 10 54 26.2–.46	37.26N–.03	28.23E–.04	0	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(543) Germany

ISC	**III**	**27 12 22 48.5–.75**	**51.46N–.02**	**6.53E–.02**	**0**		**143**	**0-5**
ISCJB	III	27 12 22 47.7–.42	51.49N–.02	6.43E–.04	0			**¶16424591**
BUG	III	27 12 22 49.0	51.53N	6.60E	1	2.2L		
BNS	III	27 12 22 49.7–1.1	51.52N	6.58E	1	2.1L		
CSEM	III	27 12 22 49.0–.26	51.49N	6.49E	1	2.7L		
LDG	III	27 12 22 49.4–.15	51.54N	6.60E	1	2.6L		
BGR	III	27 12 22 50.6–.45	51.55N	6.60E	1	2.2L		

ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.7km s-min=2.7km az=135.2.
GDNRW Event type fi.
BNS Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.6km s-min=4.0km az=128.0.
LDG Event type sr. Error ellipse: s-maj=2.7km s-min=1.9km az=178.0. Suspected Mining induced.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=132.0.

(366) Turkey

DDA	**III**	**27 14 01 15.5**	**39.79N**	**29.58E**	**7**			
								¶602442700

DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**III**	**27 14 01 47.8–.96**	**37.19N–.04**	**28.12E–.04**	**0**		**32**	**0-1**
DDA	III	27 14 01 45.5	37.34N	28.34E	7			**¶16495736**
ISCJB	III	27 14 01 47.3–.58	37.24N–.04	28.23E–.04	0			
CSEM	III	27 14 01 47.6–.18	37.24N	28.23E	2	2.6		
ISK	III	27 14 01 47.5	37.21N	28.21E	6	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.0km s-min=4.2km az=37.4.
CSEM Event type sm. Error ellipse: s-maj=5.3km s-min=3.1km az=44.0. Suspected Mining explosion.

(479) Colorado

ISC	**III**	**27 22 49 06.2–.67**	**40.47N–.02**	**107.14W–.02**	**0**		**92**	**1-23**
ISCJB	III	27 22 49 04.7–.25	40.51N–.02	107.15W–.02	0	3.5b		**¶17198862**
IDC	III	27 22 49 06.4–1.4	40.59N	107.18W	0	3.9L,3.8		
NEIC	III	27 22 49 06.5–.34	40.41N	107.10W	0	3.5L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=2.8km s-min=2.6km az=144.0.
IDC Error ellipse: s-maj=25.0km s-min=10.7km az=64.0.
NEIC Event type fm. Error ellipse: s-maj=5.5km s-min=4.4km az=62.0. 24 km [15 miles] WSW of Steamboat Springs. Suspected Mining explosion.

(366) Turkey

ISC	**III**	**28 06 57 35.1–.84**	**37.27N–.04**	**28.12E–.03**	**0**		**31**	**0-2**
ISK	III	28 06 57 35.3	37.27N	28.31E	2	2.6		**¶16495757**
DDA	III	28 06 57 36.1	37.25N	28.17E	7	2.6		
CSEM	III	28 06 57 36.3–.17	37.26N	28.26E	2	2.6		
ISCJB	III	28 06 57 36.0–.53	37.24N–.04	28.19E–.04	0	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(329) Eastern Kazakhstan

ISC	**III**	**28 07 38 31.6–.87**	**50.15N–.03**	**78.76E–.04**	**0**		**35**	**0-8**
ISCJB	III	28 07 38 29.9–.59	49.98N–.03	78.63E–.06	0			**¶16684623**
SOME	III	28 07 38 31.6	50.00N	78.67E	5			
NNC	III	28 07 38 31.0–.35	50.03N	78.70E	1–4	3.5b,3.1		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=3.6km az=0.6.
NNC Event type sm. Error ellipse: s-maj=6.4km s-min=2.8km az=64.0. Suspected Mining explosion.

(366) Turkey

ISC	**III**	**28 07 52 38.0–.92**	**39.52N–.04**	**29.99E–.04**	**0**		**32**	**0-1**
ISK	III	28 07 52 38.2	39.45N	29.94E	17	2.5		**¶16495760**
CSEM	III	28 07 52 39.3–.57	39.53N	29.92E	1	2.5		
ISCJB	III	28 07 52 40.0–.74	39.59N–.04	29.89E–.05	0	2.5		
DDA	III	28 07 52 40.3	39.55N	29.92E	7	2.5		

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=13.3km s-min=8.8km az=143.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.0km s-min=4.5km az=41.5.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

UPP	**III**	**28 10 02 24.6**	**59.45N**	**13.25E**	**0**	**1.1L**		
CSEM	III	28 10 02 24.6	59.45N	13.25E	0	1.1L		**¶602003626**

UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

BER	**III**	**28 10 02 38.1–2.5**	**59.30N**	**27.06E**	**0**	**2.3L**		
CSEM	III	28 10 02 37.5–.38	59.34N	27.18E	2	1.6L		**¶16373268**
NAO	III	28 10 02 37.5–2.5	59.30N	26.97E		2.3L		

BER Event type sh. Error ellipse: s-maj=11.5km s-min=20.7km az=-1.0. Suspected explosion.
CSEM Event type km. Error ellipse: s-maj=8.7km s-min=5.2km az=110.0. Mining explosion.

(366) Turkey

ISC	**III**	**28 10 12 17.1–1.0**	**38.98N–.03**	**37.12E–.04**	**0**		**24**	**0-2**
ISK	III	28 10 12 17.5	38.99N	37.07E	5	2.6		**¶16495764**
CSEM	III	28 10 12 18.3–.39	39.03N	37.15E	1	2.8		
ISCJB	III	28 10 12 18.2–.57	39.03N–.03	37.14E–.04	0	2.8		
DDA	III	28 10 12 19.1	39.06N	37.27E	7	2.8		

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=8.5km s-min=7.2km az=27.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=4.1km az=143.2.
DDA Event type sm. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**III**	**29 00 02 32.1–.73**	**49.80N–.03**	**18.47E–.02**	**0**		**116**	**0-5**
ISCJB	III	29 00 02 30.9–.33	49.84N–.02	18.42E–.02	0			**¶16403050**
CSEM	III	29 00 02 31.8–.19	49.82N	18.48E	1	2.8L		
IPEC	III	29 00 02 32.6–.18	49.82N	18.55E	0	2.0L		
VIE	III	29 00 02 33.6–.41	49.65N	18.37E	0	2.4L,2.2b		
PRU	III	29 00 02 33.4	49.82N	18.45E	0	2.4L,2.2b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.5km s-min=1.9km az=22.8.
CSEM Event type ki. Error ellipse: s-maj=4.7km s-min=2.6km az=20.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
VIE Event type sr. Error ellipse: s-maj=3.0km s-min=2.0km az=87.0. Suspected Mining induced.
PRU Event type ki.

(548) Poland

ISC	**III**	**29 01 42 55.3–.75**	**50.15N–.03**	**18.73E–.02**	**0**		**94**	**0-5**
ISCJB	III	29 01 42 53.2–.34	50.15N–.03	18.69E–.02	0			**¶16403053**
IPEC	III	29 01 42 55.4–.21	50.23N	18.79E	2–2	2.1L		
CSEM	III	29 01 42 55.0–.26	50.24N	18.70E	2	2.1L		
VIE	III	29 01 42 57.6–.69	49.67N	18.80E	0	2.5L,2.3b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=1.8km az=14.5.
IPEC Event type ki. Error ellipse: s-maj=2.5km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=8.1km s-min=3.4km az=6.0.
VIE Event type sr. Error ellipse: s-maj=4.6km s-min=3.6km az=120.0. Suspected Mining induced.

(723) Finland-Karelia border region

ISC	**III**	**29 08 03 20.3–1.1**	**61.12N–.04**	**28.69E–.06**	**0**		**41**	**1-9**
CSEM	III	29 08 03 17.2–.41	61.02N	29.09E	2	2.3L		**¶16408657**
ISCJB	III	29 08 03 17.7–.92	61.08N–.05	28.7E–.10	0	2.3L		
HEL	III	29 08 03 19.3–.20	61.03N	28.99E	0	2.3L		
BER	III	29 08 03 20.6–2.5	60.95N	28.99E	0	2.3L		
NAO	III	29 08 03 20.5–1.8	60.93N	28.91E		2.3L		
IDC	III	29 08 03 20.5–2.1	60.94N	28.91E	0	3.2,3.2		

ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=9.4km s-min=4.2km az=126.0. Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=10.5km s-min=4.2km az=37.4.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=3.0km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=11.5km s-min=17.7km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=18.5km s-min=13.2km az=149.0.

(544) Switzerland

ZUR	**III**	**29 14 30 08.6**	**47.62N**	**8.09E**	**5–3**	**1.2L**		
CSEM	III	29 14 30 08.6	47.62N	8.09E	5	1.2L		**¶603310067**

ZUR Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(544) Switzerland

ISC	**III**	**29 14 30 02.2–.35**	**5.93S–.05**	**150.94E–.06**	**43**	**4.7b,4.0s**	**110**	**2-152**
BJI	III	29 14 29 58.4	6.09S	151.17E	36	5.0b,4.9s		**¶16460904**
IDC	III	29 14 30 00.6–2.8	5.90S	151.04E	29–19	4.4,4.3		
ISCJB	III	29 14 30 00.7–.23	5.94S–.03	150.91E–.04	43	4.6b,4.0s		
NEIC	III	29 14 30 03.4–.74	5.92S	150.93E	54–7	4.8b,4.0s		

ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=10.0km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=24.1.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=120.0.

(366) Turkey

ISC	**III**	**29 14 57 53.0–1.1**	**37.31N–.05**	**28.28E–.04**	**0**		**24**	**0-1**
DDA	III	29 14 57 53.7	37.25N	28.24E	7			**¶16495822**
ISK	III	29 14 57 53.3	37.24N	28.20E	5	2.5		
ISCJB	III	29 14 57 54.1–.67	37.26N–.04	28.23E–.05	0	2.5		
CSEM	III	29 14 57 54.4–.24	37.25N	28.23E	1	2.5		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.9km s-min=3.8km az=39.4.
CSEM Event type sm. Error ellipse: s-maj=6.5km s-min=3.6km az=44.0. Suspected Mining explosion.

(460) Wyoming

ISC III 29 19 16 51.1–.72 43.57N–.03 105.29W–.03 0 70 1-62
IDC III 29 19 16 50.0–2.0 43.43N 105.35W 0 4.0b,3.6 ¶17199102
ISCJB III 29 19 16 50.8–.27 43.56N–.02 105.30W–.03 0 4.4b,3.3s
NEIC III 29 19 16 51.5–.49 43.58N 105.28W 0 3.0L,3.3s
ISC Event type sm.
IDC Error ellipse: s-maj=46.7km s-min=9.6km az=155.0.
ISCJB Event type fm. Error ellipse: s-maj=3.6km s-min=2.6km az=164.8.
NEIC Event type fm. Error ellipse: s-maj=8.0km s-min=6.3km az=154.0. 82 km [51 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC III 30 01 42 52.7–.00 50.16N–.06 19.04E–.03 0 16 0-2
CSEM III 30 01 42 52.3–.40 50.33N 19.04E 1 ¶16403074
ISCJB III 30 01 42 52.1–.80 50.17N–.05 19.01E–.05 0
PRU III 30 01 42 53.9 50.18N 19.05E 0 4.9
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=21.3km s-min=5.7km az=2.0.
ISCJB Event type ki. Error ellipse: s-maj=7.5km s-min=4.6km az=3.6.
PRU Event type ki.

(548) Poland

ISC III 30 02 02 49.6–.58 50.06N–.02 18.38E–.01 0 188 0-39
ISCJB III 30 02 02 49.1–.24 50.07N–.02 18.29E–.02 0 3.0b ¶16401463
SIGU III 30 02 02 49.1–.20 50.12N–.01 18.36E–.01 5–0 3.2b
CSEM III 30 02 02 50.7–.14 50.06N 18.34E 1 3.6L
IPEC III 30 02 02 51.2–.17 50.08N 18.44E 0 3.0L
PRU III 30 02 02 52.2 50.06N 18.30E 0 3.0L
IDC III 30 02 02 52.1–.81 49.92N 18.37E 0 3.4,3.3
UPP III 30 02 02 54.6–3.3 50.21N 17.96E 0 2.2L,3.3
VIE III 30 02 02 54.3–.59 49.71N 18.28E 3–2 2.9L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.7km s-min=1.7km az=14.0.
CSEM Event type ki. Error ellipse: s-maj=3.4km s-min=2.7km az=3.0.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
PRU Event type ki.
IDC Error ellipse: s-maj=14.0km s-min=6.9km az=147.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=4.0km s-min=2.9km az=110.0. Suspected Mining induced.

(383) Northwestern Balkan Peninsula

CSEM III 30 03 17 21.4–99 46.39N 15.07E 0
LJU III 30 03 17 21.4 46.39N 15.07E 0 ¶601124142
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(548) Poland

PRU III 30 04 00 42.3 50.07N 18.52E 0
¶16403078
PRU Event type ki.

(548) Poland

ISC III 30 04 17 12.8–.47 51.52N–.03 16.03E–.02 0 3.5b 235 1-151
ISCJB III 30 04 17 10.6–.24 51.53N–.01 15.94E–.02 0 3.7b ¶16401471
STR III 30 04 17 11.5–.64 49.22N 16.68E 5 4.3L
LDG III 30 04 17 12.8–.11 51.59N 16.13E 1 4.0L
CSEM III 30 04 17 12.5–.22 51.57N 15.93E 0–0 4.0L,3.6s
IDC III 30 04 17 14.8–.45 51.48N 16.03E 0 3.7,3.6
PRU III 30 04 17 15.3 51.46N 16.03E 0 3.7,3.6
VIE III 30 04 17 16.3–.44 51.30N 16.01E 2–2 3.6s,3.1L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.2km s-min=2.1km az=138.1.
STR Event type ke.
LDG Event type sr. Error ellipse: s-maj=3.1km s-min=1.6km az=176.0. Suspected Mining induced.
CSEM Event type ki. Error ellipse: s-maj=4.5km s-min=3.7km az=9.0.
IDC Error ellipse: s-maj=8.7km s-min=5.4km az=108.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=2.4km s-min=1.6km az=21.0. Suspected Mining induced.

(548) Poland

ISC III 31 07 06 34.5–1.2 51.56N–.06 15.98E–.03 0 60 1-5
CSEM III 31 07 06 33.9–.52 51.57N 16.00E 2 2.4b ¶16403104
ISCJB III 31 07 06 33.3–.72 51.51N–.03 16.02E–.04 0 2.4b
PRU III 31 07 06 35.0 51.55N 16.01E 0 2.4b
VIE III 31 07 06 36.4–.84 51.40N 16.00E 0 2.7L,2.4b
ISC Event type sr.
CSEM Event type ki. Error ellipse: s-maj=7.9km s-min=6.3km az=178.0.
ISCJB Event type sr. Error ellipse: s-maj=4.9km s-min=3.1km az=12.7.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=5.3km s-min=2.8km az=17.0. Suspected Mining induced.

(329) Eastern Kazakhstan

NNC III 31 10 03 46.5–.53 51.26N 75.64E 0 3.5b,3.1
¶16705047
NNC Event type sm. Error ellipse: s-maj=8.0km s-min=3.9km az=16.0. Suspected Mining explosion.

(535) Southern Norway

ISC III 31 13 00 24.8–.72 59.12N–.02 5.93E–.03 0 102 0-13
UPP III 31 13 00 19.9–3.0 59.09N 5.03E 0 2.3L ¶16401559
ISCJB III 31 13 00 24.7–.37 59.11N–.02 5.89E–.05 0 2.3L
CSEM III 31 13 00 25.5–.15 59.10N 5.86E 1 2.3L
BER III 31 13 00 26.9–2.5 59.10N 5.81E 0 2.4L,2.4
IDC III 31 13 00 28.7–2.8 59.50N 5.76E 0 3.4,3.3
NAO III 31 13 00 28.8–2.6 59.33N 5.98E 2.4L,3.3
ISC Event type sm.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0. Suspected explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.8km s-min=2.9km az=153.0.
CSEM Event type sm. Error ellipse: s-maj=3.6km s-min=2.5km az=56.0. Suspected Mining explosion.
BER Event type sh. Error ellipse: s-maj=3.2km s-min=6.7km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=37.3km s-min=19.5km az=169.0.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.

(366) Turkey

ISC III 31 13 36 12.4–.84 37.25N–.04 28.12E–.03 0 40 0-2
ISK III 31 13 36 11.9 37.21N 28.16E 5 2.7 ¶16495881
DDA III 31 13 36 12.9 37.23N 28.18E 7 2.7
ISCJB III 31 13 36 12.8–.45 37.22N–.03 28.18E–.03 0 2.7
CSEM III 31 13 36 13.0–.15 37.22N 28.18E 2 2.7
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.7km s-min=3.2km az=29.6.
CSEM Event type sm. Error ellipse: s-maj=3.7km s-min=2.6km az=28.0. Suspected Mining explosion.

(460) Wyoming

ISC III 31 17 14 13.3–.47 43.59N–.03 105.27W–.03 0 4.3b 207 1-93
IDC III 31 17 14 12.8–.63 43.52N 105.34W 0 4.2,4.1b ¶17199322
ISCJB III 31 17 14 12.6–.17 43.57N–.02 105.26W–.02 0 4.2b,4.1b
NEIC III 31 17 14 13.5–.19 43.65N 105.14W 0 4.0L,4.1b
ISC Event type sm.
IDC Error ellipse: s-maj=14.6km s-min=7.1km az=153.0.
ISCJB Event type fm. Error ellipse: s-maj=2.4km s-min=2.0km az=141.0.
NEIC Event type fm. Error ellipse: s-maj=3.2km s-min=3.0km az=159.0. 78 km [49 miles] SSE of Gillette. Suspected Mining explosion.

(460) Wyoming

ISC III 31 18 12 09.5–.89 44.13N–.05 105.51W–.04 0 23 1-19
ISCJB III 31 18 12 08.6–.62 44.07N–.07 105.48W–.08 0 ¶17199333
IDC III 31 18 12 10.7–1.5 44.03N 105.53W 0 3.5,3.2
NEIC III 31 18 12 10.7–.62 44.00N 105.23W 0 2.9L,3.2
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=11.1km s-min=6.1km az=146.8.
IDC Error ellipse: s-maj=43.8km s-min=8.1km az=147.0.
NEIC Event type fm. Error ellipse: s-maj=10.9km s-min=6.7km az=132.0. 39 km [24 miles] SE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC III 31 19 46 40.6–.76 49.86N–.03 18.47E–.02 0 53 0-4
ISCJB III 31 19 46 39.9–.43 49.92N–.03 18.39E–.03 0 ¶16403119
IPEC III 31 19 46 40.6–.18 49.84N 18.53E 0 2.3L
CSEM III 31 19 46 40.2–.33 49.83N 18.46E 1 2.3L
PRU III 31 19 46 42.1 49.88N 18.39E 0 2.3L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.5km s-min=2.4km az=15.1.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=8.9km s-min=4.6km az=5.0.
PRU Event type ki.

(543) Germany

ISC IV 01 00 36 34.8–.75 51.47N–.02 6.51E–.02 0 175 0-7
ISCJB IV 01 00 36 34.2–.37 51.49N–.02 6.44E–.03 0 ¶16414352
BUG IV 01 00 36 35.8 51.54N 6.60E 1 2.3L
CSEM IV 01 00 36 35.6–.22 51.48N 6.53E 1 3.1L
LDG IV 01 00 36 36.8–.10 51.48N 6.54E 1 3.5,3.1L
BNS IV 01 00 36 36.4–.87 51.50N 6.58E 1 2.4L,3.1L
BGR IV 01 00 36 37.0–.59 51.47N 6.60E 1 2.5L,3.1L
UCC IV 01 00 36 37.7 51.51N 6.73E 10 2.2L,3.1L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.5km s-min=2.3km az=43.0.
GDNRW Event type fi.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=3.3km az=139.0.
LDG Event type sr. Error ellipse: s-maj=2.1km s-min=1.4km az=149.0. Suspected Mining induced.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=10.0km s-min=4.4km az=124.0.
UCC Event type ki.

(548) Poland

ISC IV 01 02 47 43.7–1.0 51.61N–.04 16.11E–.04 0 45 1-4
ISCJB IV 01 02 47 42.3–.69 51.59N–.03 16.11E–.05 0 ¶16407530
CSEM IV 01 02 47 45.2–.74 51.52N 16.06E 2 2.9L
PRU IV 01 02 47 46.0 51.52N 16.06E 0 2.9L
VIE IV 01 02 47 46.5–1.0 51.42N 16.00E 0 2.3L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.8km s-min=4.1km az=140.5.
CSEM Event type ki. Error ellipse: s-maj=11.0km s-min=7.2km az=16.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=8.2km s-min=4.3km az=38.0. Suspected Mining induced.

(329) Eastern Kazakhstan

ISC IV 01 08 28 39.9–.98 51.7N–.20 75.30E–.09 0 13 2-7
IDC IV 01 08 28 40.4–1.4 51.79N 75.62E 0 2.5,2.5 ¶16705120
NNC IV 01 08 28 43.3–1.6 51.86N 75.74E 0 3.0b,2.6
ISC Event type sm.
IDC Error ellipse: s-maj=28.8km s-min=11.4km az=30.0.
NNC Event type sm. Error ellipse: s-maj=47.8km s-min=8.9km az=26.0. Suspected Mining explosion.

(366) Turkey

ISC IV 01 08 58 48.4–.98 37.29N–.03 28.17E–.03 0 26 0-1
ISK IV 01 08 58 46.8 37.29N 28.18E 2 2.6 ¶16647926
ISCJB IV 01 08 58 48.6–.61 37.28N–.03 28.20E–.04 0 2.6
CSEM IV 01 08 58 48.6–.38 37.28N 28.21E 1 2.6
DDA IV 01 08 59 47.5 37.24N 28.23E 10 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.1km s-min=3.7km az=136.8.
CSEM Event type sm. Error ellipse: s-maj=9.9km s-min=5.5km az=49.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC IV 01 09 15 31.3–.85 38.86N–.02 27.85E–.02 0 46 0-1
ISK IV 01 09 15 30.3 38.83N 27.83E 5 2.7 ¶16647927
DDA IV 01 09 15 30.5 38.88N 27.86E 5 2.5
ISCJB IV 01 09 15 31.3–.44 38.85N–.02 27.82E–.03 0 2.5
CSEM IV 01 09 15 31.4–.21 38.85N 27.81E 2 2.5
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.9km s-min=3.3km az=10.8.
CSEM Event type sm. Error ellipse: s-maj=5.0km s-min=3.7km az=124.0. Suspected Mining explosion.

(366) Turkey

ISC IV 01 11 22 43.1–.80 40.27N–.02 29.13E–.02 0 63 0-2
ISCJB IV 01 11 22 43.0–.37 40.29N–.02 29.11E–.03 0 ¶16647929
ISK IV 01 11 22 42.4 40.28N 29.14E 12 2.5
CSEM IV 01 11 22 43.2–.16 40.28N 29.13E 2 2.5
DDA IV 01 11 22 43.1 40.30N 29.13E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.6km s-min=3.1km az=136.7.
CSEM Event type sm. Error ellipse: s-maj=3.3km s-min=3.1km az=153.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC IV 01 21 08 05.7–2.5 51.47N–.10 16.19E–.06 0 28 1-3
ISCJB IV 01 21 08 04.9–1.7 51.43N–.07 16.15E–.07 0 ¶16407548
CSEM IV 01 21 08 06.6–.78 51.41N 16.15E 1 2.6L
PRU IV 01 21 08 07.7 51.37N 16.16E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=10.3km s-min=4.7km az=23.5.
CSEM Event type ki. Error ellipse: s-maj=11.2km s-min=5.9km az=12.0.
PRU Event type ki.

(548) Poland

ISC IV 02 04 59 08.1–.66 51.52N–.03 16.11E–.02 0 138 1-60
ISCJB IV 02 04 59 06.6–.36 51.49N–.02 16.12E–.02 0 3.3b ¶16407563
IDC IV 02 04 59 09.8–.65 51.45N 16.01E 0 3.4,3.3
CSEM IV 02 04 59 09.3–.25 51.45N 16.09E 2 3.4L,3.3
PRU IV 02 04 59 10.2 51.45N 16.04E 0 3.4L,3.3
BGR IV 02 04 59 10.4–.36 51.44N 16.11E 1 3.0L,3.3
VIE IV 02 04 59 12.4–.67 51.22N 16.23E 0 3.0L,3.3
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.1km s-min=2.0km az=9.6.
IDC Error ellipse: s-maj=12.5km s-min=6.2km az=106.0.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=2.6km az=16.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=17.0.
VIE Event type sr. Error ellipse: s-maj=5.5km s-min=4.1km az=40.0. Suspected Mining induced.

(320) Kyrgyzstan-Xinjiang border region

ISC IV 02 09 06 53.1–2.1 42.03N–.10 78.20E–.09 0 10 0-3
NNC IV 02 09 06 50.5–7.9 44.81N 77.48E 0 3.1b,2.7 ¶601092335
SOME IV 02 09 06 50.2 41.65N 78.25E 3.1b,2.7
KRNET IV 02 09 06 54.8–.10 42.03N 78.47E 35 1.9b,2.7
ISCJB IV 02 09 06 55.0–1.4 41.96N–.07 78.15E–.08 0 1.9b,2.7
ISC Event type kx.
SOME Event type kx.
ISCJB Event type kx.

(548) Poland

ISC IV 02 17 40 43.0–.80 50.07N–.03 18.45E–.02 0 43 0-4
ISCJB IV 02 17 40 41.9–.48 50.08N–.03 18.40E–.03 0 ¶16407569
IPEC IV 02 17 40 43.2–.17 50.06N 18.48E 0 1.6L
CSEM IV 02 17 40 43.0–.18 50.09N 18.41E 1 2.5L
PRU IV 02 17 40 44.0 50.07N 18.40E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.5km az=17.8.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=4.1km s-min=2.4km az=1.0.
PRU Event type ki.

(536) Sweden

UPP IV 02 23 21 02.5–.10 67.85N 20.20E 0 1.5L
CSEM IV 02 23 21 02.1–.06 67.84N 20.22E 4–0 1.5L ¶16912017
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=2.1km s-min=1.3km az=3.0. Mining explosion.

(535) Southern Norway

ISC IV 03 01 23 27.8–1.2 61.05N–.03 4.36E–.03 16–9 158 1-10
CSEM IV 03 01 23 29.1–.18 61.08N 4.35E 15 2.6L ¶16409310
NAO IV 03 01 23 30.7–4.8 61.06N 4.63E 3–20 2.5L
BER IV 03 01 23 30.9–1.4 61.10N 4.32E 16–4 2.5L,2.5
BGS IV 03 01 23 31.1–.37 61.11N 4.37E 24–10 2.6L,2.5
UPP IV 03 01 23 33.0–2.0 60.88N 5.05E 0 1.8L,2.5
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=121.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
BER Error ellipse: s-maj=1.8km s-min=5.0km az=-1.0.
BGS Error ellipse: s-maj=3.7km s-min=3.0km az=-1.0.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0. Suspected explosion.

(336) Western Kazakhstan

ISC	**IV**	**03 08 35 09.9–.87**	**53.00N–.04**	**63.13E–.03**	**0**		**38**	**4-21**
ISCJB	IV	03 08 35 07.6–.49	53.00N–.05	63.23E–.05	0	3.5b		**¶16705415**
IDC	IV	03 08 35 11.1–1.1	53.19N	63.21E	0	3.5,3.5b		
NNC	IV	03 08 35 12.3–1.5	52.64N	63.49E	0	3.4b,3.0		
CSEM	IV	03 08 35 12.3	52.64N	63.49E	0	3.4b,3.0		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.3km s-min=4.0km az=170.0.
IDC Error ellipse: s-maj=20.9km s-min=7.6km az=26.0.
NNC Event type sm. Error ellipse: s-maj=29.2km s-min=5.3km az=153.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(548) Poland

ISC	**IV**	**03 08 51 00.2–2.3**	**51.43N–.09**	**16.18E–.08**	**0**		**29**	**1-3**
CSEM	IV	03 08 51 00.2–1.1	51.50N	16.01E	1	2.7L		**¶16407581**
PRU	IV	03 08 51 01.4	51.46N	16.10E	0	2.7L		

ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=14.5km s-min=8.9km az=176.0.
PRU Event type ki.

(460) Wyoming

ISC	**IV**	**03 18 06 49.6–.87**	**43.78N–.04**	**105.30W–.05**	**0**		**25**	**1-20**
IDC	IV	03 18 06 50.3–2.2	43.76N	105.36W	0	3.5,3.3		**¶17199682**
ISCJB	IV	03 18 06 51.9–.93	43.62N–.05	105.38W–.10	0	3.5,3.3		
NEIC	IV	03 18 06 52.8–.86	43.69N	105.36W	0	3.1L,3.3		

ISC Event type sm.
IDC Error ellipse: s-maj=57.2km s-min=8.5km az=149.0.
ISCJB Event type fm. Error ellipse: s-maj=11.1km s-min=5.4km az=150.8.
NEIC Event type fm. Error ellipse: s-maj=11.2km s-min=7.3km az=58.0. 71 km [44 miles] SSE of Gillette. Suspected Mining explosion.

(713) Central Kazakhstan

ISC	**IV**	**03 18 56 42.3–1.1**	**42.35N–.04**	**69.25E–.05**	**0**		**37**	**1-11**
ISCJB	IV	03 18 56 43.0–.82	42.43N–.04	69.25E–.06	0			**¶16713876**
NNC	IV	03 18 56 43.9–1.1	42.30N	69.48E	0	3.6b,3.3		
KRNET	IV	03 18 56 44.1–.10	42.36N	69.45E		2.9b,3.3		
SOME	IV	03 18 56 44.5	42.27N	69.50E	5	2.9b,3.3		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.8km s-min=5.4km az=160.2.
NNC Event type sm. Error ellipse: s-maj=8.5km s-min=4.9km az=89.0. Suspected Mining explosion.

(548) Poland

ISC	**IV**	**04 03 30 29.8–.86**	**51.58N–.03**	**16.06E–.02**	**0**		**69**	**1-4**
ISCJB	IV	04 03 30 28.7–.54	51.52N–.03	16.11E–.03	0			**¶16409318**
CSEM	IV	04 03 30 29.8–.26	51.55N	16.05E	2	3.0L		
VIE	IV	04 03 30 33.7–.63	51.29N	16.11E	0	2.5L,2.3b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=2.8km az=13.1.
CSEM Event type ki. Error ellipse: s-maj=4.9km s-min=4.2km az=101.0.
VIE Event type sr. Error ellipse: s-maj=4.8km s-min=4.5km az=111.0. Suspected Mining induced.

(548) Poland

ISC	**IV**	**04 03 36 15.0–1.3**	**51.51N–.06**	**15.99E–.03**	**0**		**45**	**1-4**
ISCJB	IV	04 03 36 12.5–.83	51.53N–.04	16.08E–.04	0			**¶16413433**
CSEM	IV	04 03 36 14.4–.70	51.52N	16.03E	2	2.8L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=3.7km az=13.6.
CSEM Event type ki. Error ellipse: s-maj=10.4km s-min=7.6km az=15.0.

(724) Baltic States-Belarus-Northwestern Russia

HEL	**IV**	**04 11 30 39.3–.20**	**59.26N**	**27.63E**	**0**	**1.9L**		
CSEM	IV	04 11 30 37.9–1.2	59.27N	27.67E	1	1.9L		**¶602945406**

HEL Event type kh. Error ellipse: s-maj=0.7km s-min=2.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=25.2km s-min=10.1km az=103.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**IV**	**04 11 31 41.1–.30**	**29.63N–.03**	**80.73E–.02**	**17–1**	**5.6b,5.1s**	**1238**	**0-155**
BJI	IV	04 11 31 39.0	29.75N	80.85E	10	5.5s,5.4b		**¶601129074**
ISCJB	IV	04 11 31 40.2–.53	29.73N–.02	80.79E–.01	17–3	5.6b,5.1s		
NDI	IV	04 11 31 40.9–2.6	29.59N	80.88E	9–7	5.6b,5.5L		
MOS	IV	04 11 31 40.7–.96	29.71N	80.80E	22	5.8b,5.1s		
DMN	IV	04 11 31 41.1–.32	29.89N	80.63E	10	6.0L,5.1s		
IDC	IV	04 11 31 42.3–1.5	29.63N	80.82E	24–8	5.3,5.2L		
GCMT	IV	04 11 31 42.3–.10	29.43N	80.71E	19–0	5.4W,5.2L		
NEIC	IV	04 11 31 43.0–1.1	29.70N	80.75E	26–7	5.6b,5.3W		

ISC Event type ke.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.6km az=22.7.
NDI Error ellipse: s-maj=5.5km s-min=6.6km az=-1.0.
MOS Error ellipse: s-maj=5.5km s-min=3.3km az=115.7.
DMN Event type ke. Error ellipse: s-maj=13.3km s-min=6.2km az=32.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=9.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s100,c151; s118,c240;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.07±.02 $M_{\theta\theta}$-0.97±.02; $M_{\phi\phi}$-0.09±.02; $M_{r\theta}$1.02±.04; $M_{\theta\phi}$0.59±.01; $M_{\phi r}$0.09±.04; Best double couple: NP1:ϕ_s96.00000° ,δ67.00000°,λ70.00000°. NP2:ϕ_s318.00000°,δ30.00000°,λ128.00000°. Principal axes: T 1.5540,Plg63.0000°,Azm334.0000°; N 0.0210,Plg18.0000°,Azm104.0000° ; P -1.5700,Plg19.0000°,Azm201.0000° $M_0$1.56200×10^{17}
NEIC Event type de. Error ellipse: s-maj=3.7km s-min=2.3km az=211.0. Slight damage in western Nepal and in parts of Uttarakhand and Uttar Pradesh, India. Felt at Amargadhi, Nepalganj and as far as Gorkha. Nepal. Felt [IV] at Dehra Dun and Mohali; [III] at Chandigarh, Delhi, Ghaziabad, Gurgaon, Lucknow, New Delhi, Noida, Roorkee and Shimla; [II] at Alipur, India. Felt widely in northern India as far as Ghazipur, Jabalpur and Jaipur. Also felt at Lahore, Pakistan. Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ46.00000° ,λ69.00000°. NP2:ϕ_s307.00000°,δ48.00000°,λ111.00000°. Principal axes: T 1.0400,Plg75.0000°,Azm290.0000°; N -0.0700,Plg15.0000°,Azm113.0000° ; P -0.9700,Plg1.0000°,Azm23.0000°

(366) Turkey

ISC	**IV**	**04 14 55 28.5–1.0**	**38.98N–.05**	**32.64E–.06**	**0**		**22**	**0-2**
ISCJB	IV	04 14 55 30.7–.66	39.00N–.05	32.79E–.08	0			**¶601583160**
CSEM	IV	04 14 55 30.1–.28	39.03N	32.73E	2	2.7		
DDA	IV	04 14 55 30.5	39.06N	32.76E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=10.0km s-min=4.1km az=34.4.
CSEM Event type sm. Error ellipse: s-maj=8.8km s-min=4.8km az=120.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(374) Jordan-Syria region

ISC	**IV**	**04 15 07 04.3–.97**	**36.92N–.03**	**36.51E–.05**	**0**		**21**	**0-1**
ISCJB	IV	04 15 07 08.2–.63	36.93N–.03	36.57E–.05	0			**¶601583164**
CSEM	IV	04 15 07 08.2–.43	36.93N	36.58E	1	2.6		
DDA	IV	04 15 07 08.8	36.95N	36.62E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=4.2km az=13.3.
CSEM Event type sm. Error ellipse: s-maj=12.5km s-min=8.7km az=75.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**IV**	**04 19 10 16.3–.87**	**41.22N–.05**	**34.30E–.04**	**0**		**32**	**0-1**
ISK	IV	04 19 10 16.2	41.15N	34.28E	3	2.7		**¶16648082**
ISCJB	IV	04 19 10 17.1–.56	41.17N–.04	34.26E–.04	0	2.7		
CSEM	IV	04 19 10 17.2–.19	41.17N	34.25E	1	2.7		
DDA	IV	04 19 10 17.1	41.16N	34.23E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.1km s-min=3.1km az=150.6.
CSEM Event type sm. Error ellipse: s-maj=5.1km s-min=2.5km az=149.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(377) Spain

CSEM	**IV**	**05 10 01 50.5**	**41.27N**	**1.77E**	**0**	**1.6L**		

¶602212539

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(548) Poland

ISC	**IV**	**05 11 54 25.0–1.1**	**50.20N–.07**	**18.91E–.03**	**0**		**27**	**1-4**
ISCJB	IV	05 11 54 23.9–.72	50.27N–.05	18.87E–.04	0			**¶16413454**
PRU	IV	05 11 54 25.7	50.25N	18.91E	0			
CSEM	IV	05 11 54 27.1–1.6	50.30N	18.78E	1	2.8L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=14.8.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=23.4km s-min=12.9km az=48.0.

(535) Southern Norway

ISC	**IV**	**05 12 30 00.1–.72**	**59.12N–.02**	**5.91E–.03**	**0**		**91**	**0-13**
UPP	IV	05 12 29 54.7–3.0	59.11N	4.98E	0	2.3L		**¶16409340**
ISCJB	IV	05 12 29 59.9–.38	59.12N–.02	5.92E–.05	0	2.3L		
CSEM	IV	05 12 30 00.5–.12	59.10N	5.85E	1	2.2L		
IDC	IV	05 12 30 02.4–2.6	59.04N	5.93E	0	3.4,3.3		
BER	IV	05 12 30 02.0–2.9	59.09N	5.84E	0	2.4,2.2L		
NAO	IV	05 12 30 03.5–2.9	59.30N	5.96E		2.2L,2.2L		

ISC Event type sm.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0. Suspected explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.7km s-min=2.9km az=147.7.
CSEM Event type sm. Error ellipse: s-maj=2.7km s-min=1.9km az=56.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=29.1km s-min=19.6km az=162.0.
BER Event type sh. Suspected explosion.

(548) Poland

ISC	**IV**	**05 23 38 46.3–.78**	**50.09N–.03**	**18.40E–.02**	**0**		**50**	**0-3**
ISCJB	IV	05 23 38 45.3–.47	50.08N–.03	18.34E–.03	0			**¶16413466**
IPEC	IV	05 23 38 46.6–.17	50.05N	18.46E	0–3	1.7L		
CSEM	IV	05 23 38 46.2–.25	50.07N	18.37E	1	2.7L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.5km az=16.0.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=5.8km s-min=3.4km az=2.0.

(548) Poland

ISC	**IV**	**06 05 12 08.1–.72**	**51.52N–.03**	**16.18E–.02**	**0**		**80**	**1-19**
ISCJB	IV	06 05 12 06.8–.45	51.47N–.02	16.22E–.03	0			**¶16413473**
CSEM	IV	06 05 12 08.8–.27	51.46N	16.16E	2	3.4L		
IDC	IV	06 05 12 09.9–.73	51.47N	16.01E	0	3.4,3.3		
PRU	IV	06 05 12 11.5	51.36N	16.13E	0	3.4,3.3		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.4km s-min=2.8km az=12.9.
CSEM Event type ki. Error ellipse: s-maj=4.5km s-min=4.1km az=173.0.
IDC Error ellipse: s-maj=13.5km s-min=6.8km az=105.0.
PRU Event type ki.

(441) Ontario

ISC	**IV**	**06 06 34 10.0–.64**	**46.72N–.02**	**81.27W–.03**	**0**		**120**	**0-25**
ISCJB	IV	06 06 34 09.8–.29	46.71N–.02	81.23W–.03	0	3.3b		**¶16411044**
IDC	IV	06 06 34 11.1–.74	46.66N	81.23W	0	3.8,3.7		
OTT	IV	06 06 34 12.1–.08	46.67N	81.34W	1	3.7,3.7		

ISC Event type kr.
ISCJB Event type kr. Error ellipse: s-maj=2.7km s-min=2.3km az=15.1.
IDC Error ellipse: s-maj=10.8km s-min=6.7km az=59.0.
OTT Event type kr. Mining induced event, Sudbury, On Mining induced.

(548) Poland

ISC	**IV**	**06 07 15 56.1–.83**	**50.20N–.04**	**18.65E–.02**	**0**		**39**	**0-3**
ISCJB	IV	06 07 15 55.3–.58	50.27N–.04	18.64E–.03	0			**¶16413474**
IPEC	IV	06 07 15 56.6–.20	50.22N	18.69E	3–1	1.8L		
CSEM	IV	06 07 15 56.0–.18	50.27N	18.67E	2	2.7L		
PRU	IV	06 07 15 57.0	50.25N	18.61E	0	2.7L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.6km s-min=2.9km az=12.1.
IPEC Event type ki. Error ellipse: s-maj=2.3km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=5.0.
PRU Event type ki.

(366) Turkey

ISC	**IV**	**06 10 17 37.7–.78**	**39.48N–.02**	**30.04E–.02**	**0**		**49**	**0-2**
ISCJB	IV	06 10 17 37.9–.43	39.46N–.03	30.08E–.03	0			**¶16648193**
CSEM	IV	06 10 17 38.1–.20	39.45N	30.03E	1	2.7		
DDA	IV	06 10 17 38.1	39.47N	30.04E	3	2.6		
ISK	IV	06 10 17 38.2	39.44N	29.99E	9	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.6km s-min=3.5km az=175.6.
CSEM Event type sm. Error ellipse: s-maj=4.6km s-min=4.4km az=23.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**IV**	**06 11 20 06.8–.77**	**40.52N–.02**	**37.20E–.03**	**0**		**52**	**0-2**
ISK	IV	06 11 20 06.1	40.51N	37.24E	5	2.8		**¶16648200**
ISCJB	IV	06 11 20 07.0–.49	40.54N–.03	37.27E–.04	0	2.8		
CSEM	IV	06 11 20 07.0–.24	40.51N	37.26E	2	2.8		
DDA	IV	06 11 20 07.7	40.49N	37.27E	7	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.3km s-min=3.5km az=44.0.
CSEM Event type sm. Error ellipse: s-maj=5.1km s-min=4.5km az=39.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**IV**	**06 11 30 46.7–1.1**	**39.37N–.03**	**38.20E–.02**	**0**		**27**	**0-1**
ISCJB	IV	06 11 30 45.7–.57	39.39N–.04	38.19E–.04	0			**¶16648202**
ISK	IV	06 11 30 45.6	39.37N	38.21E	11	2.5		
DDA	IV	06 11 30 46.0	39.34N	38.19E	8	2.6		
CSEM	IV	06 11 30 46.0–.27	39.34N	38.18E	2	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.1km s-min=3.9km az=20.1.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.7km s-min=5.0km az=19.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**IV**	**06 16 45 26.2–.77**	**49.80N–.04**	**18.48E–.02**	**0**		**43**	**0-3**
ISCJB	IV	06 16 45 24.2–.46	49.89N–.04	18.38E–.03	0			**¶16413482**
IPEC	IV	06 16 45 25.7–.18	49.83N	18.51E	0	1.8L		
CSEM	IV	06 16 45 25.3–.36	49.95N	18.40E	1	2.5L		
PRU	IV	06 16 45 26.8	49.85N	18.40E	0	2.5L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.5km az=12.9.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=10.2km s-min=5.0km az=174.0.
PRU Event type ki.

(547) Czech and Slovak Republics

ISC	**IV**	**07 10 20 02.8–.78**	**49.79N–.04**	**18.52E–.02**	**0**		**32**	**0-3**
ISCJB	IV	07 10 20 02.0–.46	49.84N–.04	18.47E–.03	0			**¶16417059**
CSEM	IV	07 10 20 02.9–.37	49.86N	18.52E	1	2.8L		
IPEC	IV	07 10 20 03.0–.18	49.81N	18.58E	0–3	2.1L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.6km az=10.6.
CSEM Event type ki. Error ellipse: s-maj=12.4km s-min=5.5km az=169.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.

(366) Turkey

DDA	**IV**	**07 14 17 25.8**	**39.68N**	**29.46E**	**8**	**2.7**		
CSEM	IV	07 14 17 25.8	39.68N	29.46E	8	2.7		**¶601583298**

DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(536) Sweden

HEL	**IV**	**07 14 17 31.7–.50**	**67.78N**	**19.97E**	**0**	**1.6L**		

¶601129245

HEL Event type kh. Error ellipse: s-maj=2.1km s-min=8.0km az=-1.0. Explosion.

(548) Poland

ISC	**IV**	**07 17 32 01.0–.42**	**51.56N–.02**	**16.11E–.02**	**0**	**3.9b**	**396**	**1-84**

BNS IV 07 17 31 53.0–.50 51.26N 17.35E 10 3.7L ¶16417068
ISCJB IV 07 17 31 59.6–.21 51.52N–.01 16.08E–.02 0 3.8b
MOS IV 07 17 32 00.0–1.1 51.63N 16.14E 10 4.0b
LDG IV 07 17 32 00.6–.17 51.52N 16.11E 1 4.3L
CSEM IV 07 17 32 00.8–.11 51.56N 16.10E 0 4.3s,4.3L
IDC IV 07 17 32 01.6–.53 51.52N 16.03E 0 3.9,3.7
BGR IV 07 17 32 02.1–.22 51.53N 16.12E 1 3.9L,3.7
PRU IV 07 17 32 02.0 51.53N 16.10E 0 3.9L,3.7
VIE IV 07 17 32 05.4–1.1 51.25N 16.03E 0 4.3s,3.4b
ISC Event type sr.
BNS Event type ke.
ISCJB Event type sr. Error ellipse: s-maj=2.1km s-min=1.5km az=8.7.
MOS Error ellipse: s-maj=8.1km s-min=4.7km az=87.5.
LDG Event type sr. Error ellipse: s-maj=4.5km s-min=2.2km az=10.0. Suspected Mining induced.
CSEM Event type ki. Error ellipse: s-maj=2.5km s-min=2.1km az=5.0.
IDC Error ellipse: s-maj=10.5km s-min=6.5km az=115.0.
BGR Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=27.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=6.9km s-min=6.8km az=12.0. Suspected Mining induced.

(456) Montana

ISC IV 07 19 40 58.4–1.0 45.09N–.06 106.89W–.05 0 15 2-9
NEIC IV 07 19 40 58.4–1.5 45.38N 106.66W 0 2.7L ¶17200157
IDC IV 07 19 40 59.5–1.1 44.81N 106.59W 0 3.6,3.4
ISC Event type sm.
NEIC Event type fm. Error ellipse: s-maj=24.9km s-min=18.9km az=143.0. 56 km [35 miles] S of Colstrip. Suspected Mining explosion.
IDC Error ellipse: s-maj=67.7km s-min=8.5km az=138.0.

(383) Northwestern Balkan Peninsula

CSEM IV 07 22 20 27.3 46.39N 15.07E 0
LJU IV 07 22 20 27.3 46.39N 15.07E 0 0.9L ¶601124204
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(547) Czech and Slovak Republics

ISC IV 08 02 26 57.9–.76 49.89N–.04 18.49E–.02 0 50 0-4
ISCJB IV 08 02 26 57.4–.42 49.92N–.03 18.41E–.03 0 ¶16417075
IPEC IV 08 02 26 58.5–.18 49.84N 18.52E 1–3 2.2L
CSEM IV 08 02 26 58.4–.22 49.89N 18.43E 1 2.8L
PRU IV 08 02 26 59.8 49.84N 18.39E 0 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.3km az=17.1.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki.
PRU Event type ki.

(713) Central Kazakhstan

NNC IV 08 10 05 23.2–1.4 43.63N 69.73E 0 3.5b,2.9
SOME IV 08 10 05 22.1 43.63N 69.62E 3.5b,2.9 ¶16719613
NNC Event type sm. Error ellipse: s-maj=7.7km s-min=5.7km az=125.0. Suspected Mining explosion.
SOME Event type kx.

(548) Poland

ISC IV 08 11 01 34.4–.78 50.09N–.03 18.38E–.02 0 46 0-3
ISCJB IV 08 11 01 33.1–.47 50.08N–.04 18.33E–.04 0 ¶16417081
CSEM IV 08 11 01 34.0–.28 50.08N 18.36E 1 2.6L
PRU IV 08 11 01 35.8 50.05N 18.34E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=2.8km az=21.0.
CSEM Event type ki. Error ellipse: s-maj=7.6km s-min=3.9km az=18.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC IV 08 11 41 06.2–1.7 67.68N–.04 34.11E–.09 0 51 0-12
ISCJB IV 08 11 41 05.6–1.1 67.70N–.04 34.1E–.20 0 ¶16418692
KOLA IV 08 11 41 06.7 67.66N 34.15E 0
NAO IV 08 11 41 07.7–1.5 67.50N 33.88E 2.7L
HEL IV 08 11 41 08.4–.40 67.66N 33.92E 0 2.3L
CSEM IV 08 11 41 10.2–.58 67.64N 33.44E 2 2.7L
IDC IV 08 11 41 10.5–1.9 67.72N 33.52E 0 3.4,3.4
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=8.5km s-min=5.0km az=10.8.
KOLA Event type km.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=11.9km s-min=6.7km az=82.0. Mining explosion.
IDC Error ellipse: s-maj=21.1km s-min=10.0km az=80.0.

(460) Wyoming

ISC IV 08 17 59 03.6–.66 43.73N–.03 105.20W–.03 0 4.0b 98 1-90
IDC IV 08 17 59 00.8–.90 43.42N 105.17W 0 4.0b,3.8 ¶17200270
NEIC IV 08 17 59 03.5–.44 43.76N 105.10W 0 3.3L,3.8
ISCJB IV 08 17 59 04.2–.21 43.74N–.02 105.34W–.02 0 4.0b,3.8
ISC Event type sm.
NEIC Event type fm. 67 km [41 miles] SSE of Gillette. Suspected Mining explosion.
ISCJB Event type fm.

(548) Poland

ISC IV 09 05 54 39.8–.79 51.56N–.03 16.04E–.02 0 80 1-7
ISCJB IV 09 05 54 38.4–.48 51.52N–.02 16.08E–.03 0 ¶16417093
CSEM IV 09 05 54 40.3–.22 51.53N 16.01E 2 3.5L
VIE IV 09 05 54 43.7–.82 51.28N 16.29E 0 2.9L,2.2b
UPP IV 09 05 54 43.5–3.1 51.66N 15.37E 0 1.6L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.5km s-min=2.8km az=11.7.
CSEM Event type ki. Error ellipse: s-maj=4.0km s-min=3.6km az=81.0.
VIE Event type sr. Error ellipse: s-maj=6.8km s-min=5.4km az=53.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0. Suspected explosion.

(548) Poland

ISC IV 09 06 12 35.5–1.2 51.50N–.06 16.13E–.03 0 40 1-3
ISCJB IV 09 06 12 33.6–.98 51.51N–.04 16.12E–.04 0 ¶16417094
CSEM IV 09 06 12 35.4–.34 51.49N 16.14E 1 3.1L
PRU IV 09 06 12 36.5 51.46N 16.12E 0 3.1L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.5km s-min=3.7km az=14.7.
CSEM Event type ki.
PRU Event type ki.

(548) Poland

ISC IV 09 08 11 11.7–1.1 50.06N–.05 18.33E–.03 0 30 0-3
ISCJB IV 09 08 11 10.7–.91 50.10N–.05 18.35E–.04 0 ¶16417096
IPEC IV 09 08 11 11.9–.17 50.06N 18.46E 2–4 1.6L
CSEM IV 09 08 11 11.9–.36 50.08N 18.36E 1 2.6L
PRU IV 09 08 11 13.6 50.03N 18.33E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.1km s-min=3.3km az=19.5.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=3.0km az=20.0.
PRU Event type ki.

(548) Poland

ISC IV 09 11 43 09.6–1.1 51.50N–.05 16.06E–.02 0 67 1-4
ISCJB IV 09 11 43 08.0–.76 51.48N–.04 16.07E–.04 0 ¶16417099
CSEM IV 09 11 43 09.5–.43 51.50N 16.05E 2 3.3L
VIE IV 09 11 43 12.8–1.0 51.27N 16.10E 0 2.6L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.3km s-min=3.0km az=13.2.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.8km az=4.0.
VIE Event type sr. Error ellipse: s-maj=9.2km s-min=6.0km az=95.0. Suspected Mining induced.

(536) Sweden

UPP IV 09 23 38 37.7 67.82N 20.20E 0 1.3L
CSEM IV 09 23 38 37.4–.29 67.81N 20.27E 0–1 1.3L ¶602212671
HEL IV 09 23 38 38.5–.10 67.83N 20.20E 0 1.6L,1.3L
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=5.7km s-min=5.1km az=170.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0. Explosion.

(536) Sweden

UPP IV 09 23 38 40.5–.10 67.84N 20.20E 0 1.6L
CSEM IV 09 23 38 40.0–.75 67.75N 20.30E 1 1.6L ¶600888967
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=21.3km s-min=12.4km az=8.0. Mining explosion.

(366) Turkey

ISC IV 10 09 19 15.7–.92 37.16N–.03 28.09E–.03 0 28 0-1
ISCJB IV 10 09 19 16.9–.54 37.23N–.04 28.17E–.04 0 ¶16648421
CSEM IV 10 09 19 16.9–.26 37.19N 28.14E 2 2.8
ISK IV 10 09 19 16.1 37.17N 28.13E 5 2.8
DDA IV 10 09 19 16.4 37.22N 28.15E 7 2.6L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.7km s-min=3.5km az=40.8.
CSEM Event type sm. Error ellipse: s-maj=7.6km s-min=4.4km az=38.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

BEO IV 10 11 29 20.6–.27 44.64N 21.74E 0 1.6
CSEM IV 10 11 29 20.6 44.64N 21.74E 0 1.6L ¶601258592
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(329) Eastern Kazakhstan

ISC IV 11 07 29 20.9–.85 50.01N–.04 78.56E–.07 0 31 1-6
ISCJB IV 11 07 29 19.4–.64 49.95N–.03 78.47E–.09 0 ¶16706372
NNC IV 11 07 29 19.8–.72 49.97N 78.51E 0 2.7b,2.6
IDC IV 11 07 29 21.6–1.0 50.02N 78.70E 0 2.8,2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.6km s-min=3.4km az=169.7.
NNC Event type sm. Error ellipse: s-maj=13.7km s-min=2.5km az=80.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=9.3km s-min=7.2km az=39.0.

(548) Poland

ISC IV 11 07 55 01.2–.76 50.09N–.03 18.46E–.02 0 59 0-4
ISCJB IV 11 07 55 00.6–.43 50.10N–.03 18.41E–.03 0 ¶16436605
IPEC IV 11 07 55 01.2–.17 50.04N 18.53E 0–2 2.4L
CSEM IV 11 07 55 01.8–.25 50.07N 18.42E 2 3.0L
PRU IV 11 07 55 02.9 50.05N 18.40E 0 3.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.4km s-min=2.4km az=17.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=3.3km az=10.0.
PRU Event type ki.

(366) Turkey

DDA IV 11 08 30 48.9 39.68N 29.45E 7 2.7L
CSEM IV 11 08 30 48.9 39.68N 29.45E 7 2.7L ¶601583384
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

BEO IV 11 09 46 11.5–.84 44.08N 19.20E 0 1.3
CSEM IV 11 09 46 11.5 44.08N 19.20E 0 1.3L ¶601258596
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(366) Turkey

ISC IV 11 12 56 12.6–.76 39.69N–.02 30.67E–.03 0 49 0-2
CSEM IV 11 12 56 12.8–.29 39.66N 30.73E 1 2.8 ¶16648496
ISK IV 11 12 56 12.4 39.57N 30.67E 11 2.7
DDA IV 11 12 56 12.8 39.70N 30.72E 7 2.8
ISCJB IV 11 12 56 13.0–.43 39.68N–.02 30.74E–.04 0 2.8
ISC Event type sm.
CSEM Event type sm. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(536) Sweden

UPP IV 11 13 37 22.8 58.39N 12.94E 0 1.0L
CSEM IV 11 13 37 22.8 58.39N 12.94E 0 1.0L ¶602212692
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(548) Poland

ISC IV 11 19 20 46.2–.62 51.53N–.03 16.20E–.02 0 138 1-60
ISCJB IV 11 19 20 44.4–.27 51.51N–.01 16.23E–.03 0 3.4s,3.2b ¶16424687
IPEC IV 11 19 20 45.9–.29 51.54N 16.24E 0 2.8L,3.2b
CSEM IV 11 19 20 46.8–.15 51.48N 16.17E 2 3.7L,3.2b
IDC IV 11 19 20 47.8–.64 51.46N 16.00E 0 3.3s,3.3
UPP IV 11 19 20 50.8–2.9 51.68N 15.88E 0 2.4L,3.3
VIE IV 11 19 20 50.5–.77 51.23N 16.14E 0 3.0L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.6km s-min=2.1km az=164.4.
IPEC Event type ki. Error ellipse: s-maj=3.1km s-min=1.6km az=62.0.
CSEM Event type ki. Error ellipse: s-maj=3.2km s-min=2.6km az=69.0.
IDC Error ellipse: s-maj=13.5km s-min=6.8km az=103.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=7.5km s-min=5.3km az=81.0. Suspected Mining induced.

(548) Poland

ISC IV 11 20 38 04.9–1.2 51.55N–.05 16.15E–.03 0 70 1-4
ISCJB IV 11 20 38 03.9–.72 51.49N–.03 16.14E–.04 0 ¶16436613
IPEC IV 11 20 38 04.7–.48 51.54N 16.10E 0–2 2.2L
CSEM IV 11 20 38 05.5–.40 51.50N 16.15E 2 3.4L
VIE IV 11 20 38 09.0–.97 51.26N 16.19E 0 2.7L,2.3b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.2km s-min=3.1km az=18.6.
IPEC Event type ki. Error ellipse: s-maj=3.5km s-min=2.5km az=59.0.
CSEM Event type ki. Error ellipse: s-maj=6.5km s-min=4.0km az=6.0.
VIE Event type sr. Error ellipse: s-maj=10.1km s-min=6.2km az=92.0. Suspected Mining induced.

(547) Czech and Slovak Republics

ISC IV 12 02 55 27.4–.62 49.86N–.02 18.37E–.01 0 175 0-12
SIGU IV 12 02 55 25.5–.40 49.79N–.02 18.41E–.02 3–0 2.9b ¶16436690
ISCJB IV 12 02 55 26.3–.26 49.86N–.02 18.33E–.02 0 2.9b
CSEM IV 12 02 55 26.9–.16 49.92N 18.41E 2 3.4L
IPEC IV 12 02 55 27.3–.18 49.83N 18.52E 0 3.0L
BGR IV 12 02 55 27.6–.48 49.92N 18.49E 1 3.3L
PRU IV 12 02 55 28.6 49.87N 18.37E 0 3.3L
VIE IV 12 02 55 28.6–.80 49.68N 18.42E 0 2.6b
IDC IV 12 02 55 29.4–1.1 49.79N 18.34E 0 3.4,3.3
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.4km s-min=1.7km az=17.2.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=2.4km az=13.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=6.7km az=8.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=7.9km s-min=3.6km az=33.0. Suspected Mining induced.
IDC Error ellipse: s-maj=18.2km s-min=7.5km az=140.0.

(366) Turkey

ISC IV 12 06 37 36.7–.91 37.27N–.04 28.09E–.03 0 21 0-1
ISK IV 12 06 37 35.9 37.27N 28.09E 15 2.8 ¶16648552
ISCJB IV 12 06 37 37.9–.65 37.16N–.05 28.08E–.05 0 2.8
CSEM IV 12 06 37 38.2–.31 37.16N 28.10E 1 2.7
DDA IV 12 06 37 39.0 37.22N 28.08E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.5km s-min=4.5km az=29.2.
CSEM Event type sm. Error ellipse: s-maj=9.8km s-min=5.4km az=22.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC IV 12 11 18 59.0–.84 39.09N–.03 27.63E–.03 0 34 0-1
ISCJB IV 12 11 18 58.6–.60 39.08N–.03 27.60E–.05 0 ¶16648561
CSEM IV 12 11 18 59.1–.30 39.07N 27.63E 1 3.4
ISK IV 12 11 18 59.2 39.01N 27.65E 8 3.4
DDA IV 12 11 18 59.1 39.11N 27.62E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=4.1km az=176.2.
CSEM Event type sm. Error ellipse: s-maj=6.6km s-min=5.4km az=126.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

ISC	**IV**	**12 17 01 41.7–.72**	**67.08N–.02**	**20.95E–.03**	**0**		**106**	**1-11**
ISCJB	IV	12 17 01 40.3–.37	67.08N–.02	21.02E–.08	0			**¶16418704**
CSEM	IV	12 17 01 41.7–.33	67.07N	21.33E	2	1.8L		
HEL	IV	12 17 01 41.7–.20	67.09N	20.92E	0	2.1L,1.8L		
UPP	IV	12 17 01 41.0–.10	67.08N	20.95E	0	1.8L,1.8L		
IDC	IV	12 17 01 42.9–.88	67.12N	21.49E	0	3.0,3.0		
NAO	IV	12 17 01 43.4–.70	67.11N	21.26E		2.4L,3.0		
KOLA	IV	12 17 01 44.1	66.74N	21.29E	0	2.4L,3.0		
BER	IV	12 17 01 45.1–4.1	67.13N	20.95E	0	2.4L,1.8L		
ISC	Event type km.							
ISCJB	Event type km. Error ellipse: s-maj=4.4km s-min=3.1km az=4.1.							
CSEM	Event type km. Error ellipse: s-maj=8.9km s-min=6.2km az=99.0. Mining explosion.							
HEL	Event type kh. Error ellipse: s-maj=1.2km s-min=1.5km az=-1.0. Explosion.							
UPP	Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.							
IDC	Error ellipse: s-maj=19.0km s-min=6.8km az=110.0.							
KOLA	Event type km.							
BER	Event type sh. Error ellipse: s-maj=7.1km s-min=21.8km az=-1.0. Suspected explosion.							
	(460) Wyoming							
ISC	**IV**	**12 20 06 27.8–.69**	**43.63N–.04**	**105.27W–.03**	**0**		**80**	**1-90**
IDC	IV	12 20 06 26.9–1.4	43.62N	105.48W	0	4.4b,4.3		**¶16577797**
ISCJB	IV	12 20 06 27.8–.23	43.60N–.02	105.28W–.03	0	4.7s,4.6b		
NEIC	IV	12 20 06 28.3–.37	43.63N	105.16W	0	3.5L,4.6b		
ISC	Event type sm.							
IDC	Error ellipse: s-maj=34.1km s-min=9.3km az=154.0.							
ISCJB	Event type fm. Error ellipse: s-maj=3.8km s-min=2.4km az=154.6.							
NEIC	Event type fm. Error ellipse: s-maj=5.0km s-min=4.6km az=57.0. 78 km [49 miles] SSE of Gillette. Suspected Mining explosion.							
	(460) Wyoming							
ISC	**IV**	**12 21 04 57.9–.82**	**43.71N–.03**	**105.28W–.03**	**0**		**48**	**1-20**
ISCJB	IV	12 21 04 56.9–.41	43.74N–.03	105.28W–.04	0			**¶17200809**
IDC	IV	12 21 04 57.1–2.4	43.64N	105.46W	0	3.5,3.3L		
NEIC	IV	12 21 04 58.1–.39	43.73N	105.23W	0	3.3L,3.3L		
ISC	Event type sm.							
ISCJB	Event type fm. Error ellipse: s-maj=4.2km s-min=3.9km az=23.3.							
IDC	Error ellipse: s-maj=58.4km s-min=11.1km az=147.0.							
NEIC	Event type fm. Error ellipse: s-maj=5.9km s-min=5.0km az=182.0. 66 km [41 miles] SSE of Gillette. Suspected Mining explosion.							
	(366) Turkey							
ISC	**IV**	**13 08 44 13.4–.84**	**39.74N–.02**	**29.28E–.03**	**0**		**33**	**0-2**
ISCJB	IV	13 08 44 12.8–.53	39.77N–.03	29.36E–.06	0			**¶16648628**
CSEM	IV	13 08 44 12.8–.21	39.77N	29.32E	1	2.4L		
ISK	IV	13 08 44 12.2	39.74N	29.26E	7	2.4L		
DDA	IV	13 08 44 13.1	39.72N	29.53E	7	2.6		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=6.6km s-min=3.9km az=160.8.							
CSEM	Event type sm. Error ellipse: s-maj=6.1km s-min=4.0km az=73.0. Suspected Mining explosion.							
DDA	Event type sm. Suspected Mining explosion.							
	(366) Turkey							
ISC	**IV**	**13 09 48 03.8–.81**	**37.12N–.04**	**28.02E–.03**	**0**		**29**	**0-2**
ISK	IV	13 09 48 03.9	37.23N	28.14E	5	1.9L		**¶16648630**
ISCJB	IV	13 09 48 04.8–.55	37.21N–.04	28.16E–.04	0	1.9L		
DDA	IV	13 09 48 04.7	37.21N	28.13E	7	2.6		
CSEM	IV	13 09 48 05.0–.29	37.22N	28.18E	2	1.9L		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=6.3km s-min=3.6km az=26.9.							
DDA	Event type sm. Suspected Mining explosion.							
CSEM	Event type sm. Error ellipse: s-maj=8.4km s-min=4.9km az=29.0. Suspected Mining explosion.							
	(329) Eastern Kazakhstan							
ISC	**IV**	**13 09 53 18.2–.98**	**51.43N–.07**	**75.85E–.05**	**0**		**16**	**2-9**
ISCJB	IV	13 09 53 14.3–.68	51.27N–.07	75.64E–.08	0			**¶16706738**
NNC	IV	13 09 53 17.2–.27	51.41N	75.69E	0	3.2b,2.8		
IDC	IV	13 09 53 19.1–.94	51.39N	75.86E	0	2.8,2.8		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=11.6km s-min=5.3km az=28.7.							
NNC	Event type sm. Error ellipse: s-maj=6.1km s-min=1.7km az=26.0. Suspected Mining explosion.							
IDC	Error ellipse: s-maj=20.3km s-min=7.5km az=29.0.							
	(366) Turkey							
ISC	**IV**	**13 14 21 25.8–.90**	**41.47N–.04**	**35.87E–.02**	**0**		**47**	**0-3**
ISCJB	IV	13 14 21 27.3–.50	41.38N–.04	35.80E–.04	0			**¶16648634**
CSEM	IV	13 14 21 27.4–.18	41.36N	35.82E	1	2.9		
DDA	IV	13 14 21 27.7	41.34N	35.86E	8	2.9		
ISK	IV	13 14 21 27.3	41.36N	35.81E	7	2.9		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=5.6km s-min=3.6km az=20.0.							
CSEM	Event type sm. Error ellipse: s-maj=5.5km s-min=3.2km az=29.0. Suspected Mining explosion.							
DDA	Event type sm. Suspected Mining explosion.							
	(366) Turkey							
ISC	**IV**	**13 14 41 50.8–.76**	**40.25N–.03**	**30.00E–.02**	**0**		**54**	**0-2**
ISCJB	IV	13 14 41 51.8–.41	40.19N–.03	29.99E–.03	0			**¶16648636**
DDA	IV	13 14 41 52.0	40.16N	30.03E	7	2.8		
CSEM	IV	13 14 41 52.1–.24	40.19N	29.99E	1	2.7		
ISK	IV	13 14 41 52.3	40.24N	29.95E	19	2.7		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=3.7km s-min=3.1km az=156.5.							
DDA	Event type sm. Suspected Mining explosion.							
CSEM	Event type sm. Error ellipse: s-maj=4.8km s-min=4.4km az=142.0. Suspected Mining explosion.							
	(547) Czech and Slovak Republics							
ISC	**IV**	**13 14 59 05.8–.73**	**49.82N–.03**	**18.43E–.02**	**0**		**71**	**0-3**
ISCJB	IV	13 14 59 04.9–.36	49.85N–.03	18.36E–.03	0			**¶16436805**
IPEC	IV	13 14 59 05.1–.18	49.84N	18.52E	0	2.1L		
CSEM	IV	13 14 59 06.0–.18	49.81N	18.36E	2	2.8L		
VIE	IV	13 14 59 06.5–1.7	49.64N	18.42E	0	2.6L,2.0b		
ISC	Event type sr.							
ISCJB	Event type sr. Error ellipse: s-maj=4.2km s-min=2.3km az=17.2.							
IPEC	Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.							
CSEM	Event type ki. Error ellipse: s-maj=4.9km s-min=2.7km az=18.0.							
VIE	Event type sr. Error ellipse: s-maj=10.2km s-min=7.9km az=101.0. Suspected Mining induced.							
	(548) Poland							
ISC	**IV**	**13 19 08 18.8–.80**	**50.16N–.04**	**19.24E–.02**	**0**		**55**	**0-4**
ISCJB	IV	13 19 08 17.7–.54	50.23N–.04	19.17E–.03	0			**¶16436808**
CSEM	IV	13 19 08 17.9–.47	50.28N	19.18E	2	2.8L		
PRU	IV	13 19 08 19.5	50.22N	19.19E	0	2.8L		
ISC	Event type ki.							
ISCJB	Event type ki. Error ellipse: s-maj=6.1km s-min=2.4km az=20.7.							
CSEM	Event type ki. Error ellipse: s-maj=11.8km s-min=4.4km az=12.0.							
PRU	Event type ki.							
	(460) Wyoming							
ISC	**IV**	**13 19 39 21.5–.90**	**43.58N–.05**	**105.17W–.04**	**0**		**22**	**1-20**
IDC	IV	13 19 39 19.0–2.4	43.21N	105.09W	0	3.4,3.1		**¶17200933**
ISCJB	IV	13 19 39 19.7–.60	43.64N–.06	105.14W–.07	0	3.4,3.1		
NEIC	IV	13 19 39 20.7–.57	43.63N	105.13W	0	3.0L,3.1		
ISC	Event type sm.							
IDC	Error ellipse: s-maj=45.5km s-min=9.6km az=155.0.							
ISCJB	Event type fm. Error ellipse: s-maj=8.3km s-min=7.2km az=7.5.							
NEIC	Event type fm. Error ellipse: s-maj=8.4km s-min=6.5km az=192.0. 79 km [49 miles] WSW of Newcastle. Suspected Mining explosion.							
	(721) Finland							
ISC	**IV**	**14 10 38 40.0–.85**	**63.02N–.03**	**27.72E–.03**	**0**		**84**	**1-8**
ISCJB	IV	14 10 38 38.4–.40	63.07N–.02	27.72E–.06	0			**¶17201012**
CSEM	IV	14 10 38 39.4–.36	63.05N	27.70E	1	1.8L		
IDC	IV	14 10 38 39.0–1.5	63.06N	28.02E	0	3.1,3.0		
HEL	IV	14 10 38 40.5–.10	63.08N	27.70E	0	1.8L,1.8L		
UPP	IV	14 10 38 41.9–2.6	63.14N	27.56E	0	1.8L,1.8L		
ISC	Event type km.							
ISCJB	Event type km. Error ellipse: s-maj=3.9km s-min=3.1km az=16.1.							
CSEM	Event type km. Error ellipse: s-maj=8.1km s-min=6.8km az=81.0. Mining explosion.							
IDC	Error ellipse: s-maj=23.8km s-min=6.8km az=105.0.							
HEL	Event type kh. Error ellipse: s-maj=0.6km s-min=0.7km az=-1.0. Explosion.							
UPP	Event type kh. Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0. Explosion.							
	(536) Sweden							
ISC	**IV**	**14 17 02 21.5–.69**	**67.06N–.02**	**20.90E–.02**	**0**		**116**	**1-11**
ISCJB	IV	14 17 02 21.2–.34	67.07N–.02	21.08E–.07	0			**¶601129562**
CSEM	IV	14 17 02 21.8–.26	67.04N	21.17E	1	2.4L		
HEL	IV	14 17 02 22.6–.10	67.08N	20.94E	0	2.4L,2.1L		
UPP	IV	14 17 02 22.0–.10	67.07N	20.92E	0	2.1L,2.1L		
IDC	IV	14 17 02 23.2–.81	67.01N	21.37E	0	3.2,3.2		
NAO	IV	14 17 02 23.0–.80	67.00N	21.33E		2.7L,3.2		
BER	IV	14 17 02 24.7–3.7	67.02N	20.84E	0	2.7L,1.8L		
ISC	Event type km.							
ISCJB	Event type km. Error ellipse: s-maj=3.7km s-min=2.8km az=0.5.							
CSEM	Event type km. Error ellipse: s-maj=7.0km s-min=5.4km az=79.0. Mining explosion.							
HEL	Event type kh. Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0. Explosion.							
UPP	Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.							
IDC	Error ellipse: s-maj=16.2km s-min=7.5km az=109.0.							
NAO	Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.							
BER	Event type sh. Error ellipse: s-maj=7.5km s-min=21.9km az=-1.0. Suspected explosion.							
	(548) Poland							
ISC	**IV**	**15 03 07 59.9–.63**	**50.10N–.02**	**18.40E–.01**	**0**		**176**	**0-62**
ISCJB	IV	15 03 07 58.6–.29	50.11N–.02	18.41E–.02	0	2.9b		**¶16445525**
SIGU	IV	15 03 07 58.9–.60	50.02N–.02	18.38E–.03	4–0	3.0b		
BGR	IV	15 03 08 01.0–.33	50.10N	18.38E	1	3.1L		
CSEM	IV	15 03 08 00.0–.17	50.08N	18.40E	2	3.4L		
IDC	IV	15 03 08 00.5–.80	49.97N	18.48E	0	3.3,3.2		
PRU	IV	15 03 08 01.0	50.07N	18.39E	0	3.3,3.2		
ISC	Event type ki.							
ISCJB	Event type ki. Error ellipse: s-maj=3.5km s-min=1.8km az=14.4.							
BGR	Event type ki. Error ellipse: s-maj=8.9km s-min=4.4km az=176.0.							
CSEM	Event type ki. Error ellipse: s-maj=5.0km s-min=2.2km az=17.0.							
IDC	Error ellipse: s-maj=16.9km s-min=7.4km az=147.0.							
PRU	Event type ki.							
	(329) Eastern Kazakhstan							
ISC	**IV**	**15 07 22 17.0–.90**	**50.32N–.03**	**78.31E–.06**	**0**		**16**	**0-8**
NNC	IV	15 07 22 11.2–.53	50.02N	78.77E	0	3.5b,3.1		**¶16852762**
SOME	IV	15 07 22 51.5	48.68N	79.33E	0	3.5b,3.1		
ISC	Event type sm.							
NNC	Event type sm. Error ellipse: s-maj=6.0km s-min=2.4km az=90.0. Suspected Mining explosion.							
	(383) Northwestern Balkan Peninsula							
BEO	**IV**	**15 13 10 44.6–1.3**	**44.07N**	**19.09E**	**0**	**1.4**		
CSEM	IV	15 13 10 43.8–.33	44.08N	19.10E	1	1.4L		**¶601258617**
BEO	Event type km. Mining explosion.							
CSEM	Event type km. Error ellipse: s-maj=11.3km s-min=4.9km az=8.0. Mining explosion.							
	(366) Turkey							
ISC	**IV**	**15 14 49 55.7–.75**	**39.75N–.02**	**30.78E–.02**	**0**		**51**	**0-2**
ISK	IV	15 14 49 55.8	39.71N	30.81E	5	2.7		**¶16648766**
ISCJB	IV	15 14 49 56.1–.38	39.73N–.02	30.78E–.03	0	2.7		
CSEM	IV	15 14 49 56.1–.18	39.73N	30.79E	2	2.8		
DDA	IV	15 14 49 56.0	39.73N	30.73E	7	2.8		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=3.8km s-min=3.0km az=45.0.							
CSEM	Event type sm. Error ellipse: s-maj=4.0km s-min=3.7km az=36.0. Suspected Mining explosion.							
DDA	Event type sm. Suspected Mining explosion.							
	(366) Turkey							
ISC	**IV**	**15 15 26 44.2–.80**	**40.15N–.03**	**39.53E–.02**	**0**		**40**	**0-2**
ISK	IV	15 15 26 44.4	40.11N	39.50E	3	2.7		**¶16648767**
DDA	IV	15 15 26 45.0	40.10N	39.44E	12	2.8		
ISCJB	IV	15 15 26 45.1–.50	40.09N–.03	39.47E–.03	0	2.8		
CSEM	IV	15 15 26 45.0–.28	40.08N	39.46E	2	2.8		
ISC	Event type sm.							
DDA	Event type sm. Suspected Mining explosion.							
ISCJB	Event type sm. Error ellipse: s-maj=4.9km s-min=3.4km az=172.4.							
CSEM	Event type sm. Error ellipse: s-maj=7.0km s-min=5.0km az=156.0. Suspected Mining explosion.							
	(366) Turkey							
ISC	**IV**	**15 15 36 19.9–.82**	**40.39N–.03**	**27.83E–.02**	**0**		**56**	**0-2**
ISCJB	IV	15 15 36 19.9–.37	40.38N–.03	27.86E–.03	0			**¶16648769**
CSEM	IV	15 15 36 20.1–.17	40.36N	27.85E	1	2.7		
DDA	IV	15 15 36 20.3	40.33N	27.83E	9	2.8		
ISK	IV	15 15 36 20.2	40.35N	27.87E	8	2.7		
ISC	Event type sm.							
ISCJB	Event type sm. Error ellipse: s-maj=4.0km s-min=3.0km az=177.5.							
CSEM	Event type sm. Error ellipse: s-maj=4.3km s-min=3.6km az=17.0. Suspected Mining explosion.							
DDA	Event type sm. Suspected Mining explosion.							
	(548) Poland							
ISC	**IV**	**15 20 29 55.7–.82**	**50.17N–.04**	**19.26E–.02**	**0**		**54**	**0-4**
ISCJB	IV	15 20 29 54.4–.53	50.21N–.04	19.19E–.03	0			**¶16445544**
CSEM	IV	15 20 29 55.5–.28	50.19N	19.25E	2	2.7L		
PRU	IV	15 20 29 56.4	50.20N	19.22E	0	2.7L		
ISC	Event type ki.							
ISCJB	Event type ki. Error ellipse: s-maj=5.6km s-min=2.4km az=17.3.							
CSEM	Event type ki. Error ellipse: s-maj=6.7km s-min=3.1km az=16.0.							
PRU	Event type ki.							
	(548) Poland							
ISC	**IV**	**15 21 48 41.7–.88**	**50.22N–.04**	**19.22E–.02**	**0**		**46**	**0-4**
ISCJB	IV	15 21 48 40.8–.65	50.25N–.04	19.17E–.03	0			**¶16445545**
CSEM	IV	15 21 48 41.6–.30	50.25N	19.22E	2	2.5L		
PRU	IV	15 21 48 42.8	50.25N	19.20E	0	2.5L		
ISC	Event type ki.							
ISCJB	Event type ki. Error ellipse: s-maj=6.4km s-min=2.6km az=13.4.							
CSEM	Event type ki. Error ellipse: s-maj=7.1km s-min=2.9km az=10.0.							
PRU	Event type ki.							
	(367) Turkey-Georgia-Armenia border region							
DDA	**IV**	**16 02 19 21.8**	**41.53N**	**41.99E**	**7**	**2.3**		
CSEM	IV	16 02 19 21.7–.95	41.54N	41.96E	2	2.3		**¶16648812**
DDA	Event type sm. Suspected Mining explosion.							
CSEM	Event type sm. Error ellipse: s-maj=22.1km s-min=9.2km az=150.0. Suspected Mining explosion.							
	(548) Poland							
ISC	**IV**	**16 02 43 24.1–1.0**	**50.25N–.05**	**19.24E–.03**	**0**		**24**	**0-2**
ISCJB	IV	16 02 43 23.7–.81	50.26N–.05	19.22E–.04	0			**¶16445549**
PRU	IV	16 02 43 24.7	50.26N	19.27E	0			
CSEM	IV	16 02 43 24.1–.42	50.27N	19.25E	1			
ISC	Event type ki.							
ISCJB	Event type ki. Error ellipse: s-maj=7.9km s-min=3.5km az=4.6.							
PRU	Event type ki.							
CSEM	Event type ki. Error ellipse: s-maj=9.7km s-min=4.6km az=6.0.							
	(547) Czech and Slovak Republics							
ISC	**IV**	**16 02 51 20.2–.88**	**49.81N–.03**	**18.51E–.02**	**0**		**32**	**0-2**
ISCJB	IV	16 02 51 19.7–.54	49.81N–.04	18.50E–.03	0			**¶16445550**
IPEC	IV	16 02 51 20.7–.18	49.80N	18.54E	0–3	1.4L		
CSEM	IV	16 02 51 20.6–.29	49.81N	18.50E	1	2.5L		
ISC	Event type ki.							
ISCJB	Event type ki. Error ellipse: s-maj=5.9km s-min=3.2km az=8.7.							
IPEC	Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.							
CSEM	Event type ki. Error ellipse: s-maj=8.5km s-min=4.3km az=9.0.							
	(366) Turkey							
ISC	**IV**	**16 08 15 31.7–1.2**	**39.22N–.03**	**27.71E–.06**	**0**		**29**	**0-1**
CSEM	IV	16 08 15 32.7–.44	39.23N	27.76E	1	2.7		**¶16648824**
DDA	IV	16 08 15 32.2	39.27N	27.73E	7	2.7		
ISCJB	IV	16 08 15 33.0–.91	39.23N–.03	27.79E–.07	0	2.7		
ISK	IV	16 08 15 33.2	39.23N	27.90E	5	2.6		
ISC	Event type sm.							
CSEM	Event type sm. Error ellipse: s-maj=9.5km s-min=5.6km az=79.0. Suspected Mining explosion.							

DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=8.1km s-min=4.4km az=0.0.

(366) Turkey

ISC	**IV**	**16 08 58 16.9–.82**	**39.14N–.03**	**27.57E–.03**	**0**		**40**	**0-2**
ISCJB	IV	16 08 58 17.7–.52	39.10N–.03	27.56E–.04	0			**¶16648825**
ISK	IV	16 08 58 17.4	39.11N	27.59E	8	2.7		
DDA	IV	16 08 58 18.0	39.09N	27.55E	7	2.5		
CSEM	IV	16 08 58 18.0–.28	39.11N	27.56E	1	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.6km az=147.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.3km s-min=5.2km az=131.0. Suspected Mining explosion.

(460) Wyoming

ISC	**IV**	**16 21 57 44.8–.76**	**43.94N–.03**	**105.31W–.03**	**0**		**43**	**1-19**
IDC	IV	16 21 57 41.0–2.5	43.79N	105.48W	0	4.1L,3.1		**¶17201265**
ISCJB	IV	16 21 57 43.8–.40	43.97N–.03	105.28W–.03	0	4.1L,3.1		
NEIC	IV	16 21 57 44.5–.67	43.99N	105.30W	0	3.0L,3.1		

ISC Event type sm.
IDC Error ellipse: s-maj=29.5km s-min=18.0km az=148.0.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=3.0km az=19.5.
NEIC Event type fm. Error ellipse: s-maj=10.7km s-min=8.3km az=197.0. 37 km [23 miles] SSE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**IV**	**16 23 01 32.6–.75**	**49.83N–.03**	**18.53E–.02**	**0**		**56**	**0-4**
ISCJB	IV	16 23 01 32.0–.44	49.84N–.03	18.46E–.03	0			**¶16445571**
IPEC	IV	16 23 01 33.4–.18	49.80N	18.59E	0	1.7L		
CSEM	IV	16 23 01 33.4–.22	49.80N	18.50E	1	2.5L		
PRU	IV	16 23 01 34.4	49.86N	18.50E	0	2.5L		
VIE	IV	16 23 01 35.3–.68	49.61N	18.42E	0	2.2L,1.9b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.8km s-min=2.4km az=11.1.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=3.0km az=6.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=4.4km s-min=3.5km az=71.0. Suspected Mining induced.

(548) Poland

ISC	**IV**	**17 01 45 07.8–.77**	**50.14N–.04**	**18.66E–.02**	**0**		**49**	**0-3**
ISCJB	IV	17 01 45 06.8–.46	50.24N–.03	18.63E–.03	0			**¶16445574**
CSEM	IV	17 01 45 07.5–.29	50.24N	18.65E	1	2.6L		
PRU	IV	17 01 45 08.2	50.24N	18.63E	0	2.6L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=2.5km az=9.1.
CSEM Event type ki. Error ellipse: s-maj=7.2km s-min=3.2km az=12.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**IV**	**17 02 38 55.9–1.7**	**67.67N–.04**	**34.03E–.08**	**0**		**74**	**0-12**
HEL	IV	17 02 38 57.3–.50	67.66N	33.93E	0	2.4L		**¶602945434**
NAO	IV	17 02 38 58.6–1.2	67.65N	33.75E		2.7L		
KOLA	IV	17 02 38 58.8	67.66N	33.76E	0	2.7L		
CSEM	IV	17 02 38 59.6–.46	67.47N	33.25E	1	2.2L		

ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=2.5km s-min=7.9km az=-1.0. Explosion.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=9.1km s-min=6.4km az=105.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**IV**	**17 02 37 13.1–.34**	**27.67S–.04**	**63.32W–.05**	**563–3**	**4.7b**	**1073**	**2-175**
SJA	IV	17 02 37 05.0–.86	27.69S	63.39W	620–16	5.5L,4.7W		**¶601129677**
BJI	IV	17 02 37 12.7	27.60S	63.30W	550	5.2b,4.7W		
GUC	IV	17 02 37 12.5–1.6	27.61S	63.28W	564	5.7W,4.7W		
ISCJB	IV	17 02 37 12.5–.22	27.64S–.02	63.31W–.03	565–2	4.7b,4.7W		
IDC	IV	17 02 37 13.6–.44	27.59S	63.28W	564–4	5.2,4.5		
NEIC	IV	17 02 37 13.2–.11	27.68S	63.24W	563	5.0,4.7b		
MOS	IV	17 02 37 14.1–.90	27.42S	63.21W	573	4.8b,4.7b		

ISC Event type ke.
SJA Error ellipse: s-maj=7.1km s-min=12.5km az=-1.0.
GUC Error ellipse: s-maj=8.9km s-min=22.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=161.2.
IDC Error ellipse: s-maj=10.0km s-min=6.9km az=48.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=57.0.
MOS Error ellipse: s-maj=12.9km s-min=7.2km az=107.1.

(383) Northwestern Balkan Peninsula

BEO	**IV**	**17 12 48 55.9–.29**	**44.41N**	**21.97E**	**0**	**1.6**		
CSEM	IV	17 12 48 55.9	44.41N	21.97E	0	1.6L		**¶601258627**

BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(460) Wyoming

ISC	**IV**	**17 20 06 06.3–.84**	**43.80N–.05**	**105.57W–.05**	**0**		**23**	**1-19**
ISCJB	IV	17 20 06 06.5–.51	43.81N–.05	105.41W–.06	0			**¶17201352**
NEIC	IV	17 20 06 08.0–.49	43.82N	105.37W	0	3.1L		
IDC	IV	17 20 06 08.9–1.5	43.92N	105.73W	0	3.7,3.5		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.7km s-min=6.5km az=32.1.
NEIC Event type fm. Error ellipse: s-maj=8.3km s-min=6.4km az=157.0. 54 km [33 miles] S of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=41.1km s-min=9.5km az=148.0.

(536) Sweden

UPP	**IV**	**17 23 32 43.2–.10**	**67.84N**	**20.20E**	**0**	**1.5L**		
CSEM	IV	17 23 32 43.2	67.84N	20.20E	0	1.5L		**¶600888988**

UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(536) Sweden

HEL	**IV**	**17 23 32 40.8–.10**	**67.86N**	**20.15E**	**0**	**1.8L,1.1L**		
CSEM	IV	17 23 32 39.2–.31	67.78N	20.28E	2	1.1L,1.1L		**¶603458269**

HEL Event type kh. Error ellipse: s-maj=0.9km s-min=0.8km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.3km s-min=5.6km az=13.0. Mining explosion.

(366) Turkey

ISC	**IV**	**18 05 51 22.2–.84**	**39.49N–.03**	**26.99E–.02**	**0**		**44**	**0-2**
ISCJB	IV	18 05 51 22.3–.48	39.47N–.03	26.99E–.03	0			**¶16648928**
CSEM	IV	18 05 51 22.6–.18	39.46N	26.97E	1	2.8		
ISK	IV	18 05 51 22.3	39.46N	26.97E	8	2.6		
DDA	IV	18 05 51 22.7	39.43N	27.01E	8	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.7km s-min=3.3km az=161.8.
CSEM Event type sm. Error ellipse: s-maj=3.9km s-min=3.5km az=160.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(329) Eastern Kazakhstan

NNC	**IV**	**18 08 14 09.1–3.4**	**51.19N**	**75.29E**	**0**	**3.3b,2.9**		
								¶16852905

NNC Event type sm. Error ellipse: s-maj=123.3km s-min=8.8km az=22.0. Suspected Mining explosion.

(536) Sweden

HEL	**IV**	**18 23 34 17.6–.10**	**67.83N**	**20.21E**	**0**	**1.5L,1.0L**		
CSEM	IV	18 23 34 16.8–.12	67.82N	20.23E	2	1.0L,1.0L		**¶602212873**
UPP	IV	18 23 34 17.1	67.83N	20.19E	0	1.0L,1.0L		

HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=2.9km s-min=2.6km az=144.0. Mining explosion.
UPP Event type km. Mining explosion.

(536) Sweden

UPP	**IV**	**18 23 34 24.2**	**67.84N**	**20.16E**	**0**	**1.0L**		
CSEM	IV	18 23 34 19.2–.72	67.74N	21.18E	2	1.0L		**¶603458270**

UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=18.8km s-min=14.3km az=53.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**IV**	**19 09 02 09.9–.73**	**64.83N–.02**	**30.57E–.04**	**0**		**98**	**1-50**
KOLA	IV	19 09 02 09.0	64.61N	31.17E	0			**¶16462848**
CSEM	IV	19 09 02 09.5–.51	64.81N	30.66E	2	2.0L		
HEL	IV	19 09 02 10.2–.20	64.78N	30.60E	0	2.0L,1.4L		
NAO	IV	19 09 02 11.4–1.3	64.81N	30.49E		2.3L,1.4L		
BER	IV	19 09 02 12.1–3.5	64.83N	30.36E	0	2.3L,1.4L		
UPP	IV	19 09 02 15.0	64.81N	29.85E	0	1.4L,1.4L		

ISC Event type km.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=12.7km s-min=7.9km az=89.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=1.7km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=7.4km s-min=32.1km az=-1.0. Suspected explosion.
UPP Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**IV**	**19 10 00 29.2–1.1**	**41.36N–.04**	**35.85E–.03**	**0**		**27**	**0-2**
ISK	IV	19 10 00 29.8	41.42N	35.93E	5	2.4		**¶16648983**
ISCJB	IV	19 10 00 30.7–.61	41.36N–.04	35.84E–.05	0	2.4		
CSEM	IV	19 10 00 30.8–.23	41.35N	35.83E	1	2.6		
DDA	IV	19 10 00 30.4	41.36N	35.81E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.6km s-min=3.9km az=38.1.
CSEM Event type sm. Error ellipse: s-maj=7.4km s-min=3.8km az=40.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**IV**	**19 10 39 32.1–1.2**	**37.40N–.05**	**28.24E–.05**	**0**		**22**	**0-1**
ISK	IV	19 10 39 34.4	37.34N	28.15E	21	2.6,2.0L		**¶16648984**
ISCJB	IV	19 10 39 35.2–.68	37.32N–.04	28.15E–.05	0	2.6,2.0L		
CSEM	IV	19 10 39 35.7–.33	37.32N	28.12E	1	2.6,2.0L		
DDA	IV	19 10 39 35.3	37.29N	28.11E	7	2.7,2.0L		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.4km s-min=4.1km az=41.9.
CSEM Event type sm. Error ellipse: s-maj=7.8km s-min=5.5km az=51.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**IV**	**19 10 56 37.2–.86**	**37.02N–.05**	**28.06E–.04**	**0**		**26**	**0-2**
ISK	IV	19 10 56 37.1	37.09N	28.21E	25	2.7		**¶16648985**
CSEM	IV	19 10 56 38.9–.54	37.18N	28.23E	1	2.7		
DDA	IV	19 10 56 38.8	37.25N	28.26E	7	2.7		
ISCJB	IV	19 10 56 39.5–.58	37.20N–.04	28.17E–.04	0	2.7		

ISC Event type sm.
CSEM Event type sm. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(546) Austria

VIE	**IV**	**19 11 52 47.0–.22**	**47.55N**	**14.98E**	**0**	**1.6b,1.3L**		
								¶601242571

VIE Event type km. Error ellipse: s-maj=2.8km s-min=1.3km az=36.0. Mining explosion.

(329) Eastern Kazakhstan

ISC	**IV**	**19 13 15 57.0–.99**	**50.03N–.06**	**78.77E–.06**	**0**		**10**	**1-8**
ISCJB	IV	19 13 15 51.0–.89	49.82N–.05	78.67E–.09	0			**¶16707401**
NNC	IV	19 13 15 53.7–2.0	49.95N	78.88E	0	3.5b,3.2		
IDC	IV	19 13 15 57.3–.83	50.09N	78.88E	0	2.8,2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.1km s-min=7.1km az=3.2.
NNC Event type sm. Error ellipse: s-maj=29.9km s-min=10.3km az=78.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=11.0km s-min=6.0km az=56.0.

(456) Montana

ISC	**IV**	**20 00 15 13.4–.85**	**45.88N–.04**	**106.90W–.04**	**0**		**56**	**1-87**
ISCJB	IV	20 00 15 12.6–.46	45.80N–.03	106.90W–.04	0	3.3b		**¶17201565**
NEIC	IV	20 00 15 13.9–.59	45.78N	106.90W	0	2.7L		
IDC	IV	20 00 15 13.2–1.0	45.74N	107.16W	0	3.4b,3.3		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.5km s-min=4.3km az=177.4.
NEIC Event type fm. Error ellipse: s-maj=8.1km s-min=6.9km az=127.0. 23 km [15 miles] WSW of Colstrip. Suspected Mining explosion.
IDC Error ellipse: s-maj=27.7km s-min=8.7km az=122.0.

(533) United Kingdom

ISC	**IV**	**20 07 38 48.6–.94**	**51.79N–.05**	**1.89E–.03**	**0**		**47**	**1-5**
ISCJB	IV	20 07 38 48.2–.40	51.81N–.04	1.87E–.05	0			**¶16448799**
CSEM	IV	20 07 38 49.3–.20	51.79N	1.89E	2	2.5L		
UCC	IV	20 07 38 52.3	51.52N	1.72E	8	2.3L		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.5km s-min=3.3km az=31.6.
CSEM Event type km. Error ellipse: s-maj=8.0km s-min=3.6km az=29.0. Mining explosion.
UCC Event type se.

(366) Turkey

ISC	**IV**	**20 13 02 04.5–.80**	**40.19N–.02**	**29.39E–.02**	**0**		**79**	**0-2**
ISCJB	IV	20 13 02 04.4–.30	40.19N–.02	29.39E–.02	0			**¶16649032**
CSEM	IV	20 13 02 04.6–.11	40.19N	29.38E	1	2.5		
DDA	IV	20 13 02 04.4	40.19N	29.40E	6	2.7		
ISK	IV	20 13 02 04.2	40.19N	29.38E	8	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.1km s-min=2.3km az=147.5.
CSEM Event type sm. Error ellipse: s-maj=2.6km s-min=1.9km az=143.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC	**IV**	**20 14 28 55.8–.71**	**51.61N–.03**	**16.12E–.02**	**0**		**118**	**1-60**
ISCJB	IV	20 14 28 54.3–.39	51.56N–.02	16.13E–.03	0	3.3b,2.8s		**¶16450793**
IPEC	IV	20 14 28 56.6–.41	51.55N	16.20E	0–2	2.5L,2.8s		
CSEM	IV	20 14 28 56.2–.20	51.60N	16.11E	2	3.0L,2.8s		
IDC	IV	20 14 28 57.1–.75	51.54N	16.06E	0	3.4,3.3b		
BGR	IV	20 14 28 58.8–.86	51.44N	16.05E	1	3.0L,3.3b		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.2km s-min=2.3km az=12.3.
IPEC Event type ki. Error ellipse: s-maj=4.3km s-min=1.9km az=55.0.
CSEM Event type ki. Error ellipse: s-maj=4.7km s-min=2.9km az=17.0.
IDC Error ellipse: s-maj=15.3km s-min=7.4km az=110.0.
BGR Event type ki. Error ellipse: s-maj=15.6km s-min=5.6km az=13.0.

(460) Wyoming

ISC	**IV**	**20 19 39 04.4–.83**	**43.58N–.05**	**105.19W–.05**	**0**		**35**	**1-68**
ISCJB	IV	20 19 39 02.9–.39	43.64N–.04	105.11W–.05	0	4.2b,3.5s		**¶17201638**
IDC	IV	20 19 39 04.0–1.7	43.64N	105.39W	0	3.9b,3.8		
NEIC	IV	20 19 39 04.7–.42	43.61N	105.11W	0	3.4L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.9km s-min=4.8km az=37.5.
IDC Error ellipse: s-maj=49.1km s-min=7.7km az=150.0.
NEIC Event type fm. Error ellipse: s-maj=6.7km s-min=5.3km az=133.0. 78 km [49 miles] WSW of Newcastle. Suspected Mining explosion.

(456) Montana

ISC	**IV**	**20 20 49 24.2–.95**	**45.90N–.05**	**106.21W–.06**	**0**		**17**	**1-12**
ISCJB	IV	20 20 49 23.0–.71	45.93N–.06	106.37W–.10	0			**¶17201642**
IDC	IV	20 20 49 24.0–1.4	45.91N	106.59W	0	4.0L,3.8		
NEIC	IV	20 20 49 24.6–.71	45.92N	106.36W	0	2.8L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=10.9km s-min=7.4km az=35.3.
IDC Error ellipse: s-maj=49.5km s-min=11.3km az=133.0.
NEIC Event type fm. Error ellipse: s-maj=10.9km s-min=8.0km az=128.0. 21 km [13 miles] E of Colstrip. Suspected Mining explosion.

(536) Sweden

HEL	**IV**	**20 23 27 22.1**	**67.84N**	**20.20E**	**0**	**1.6L**		
CSEM	IV	20 23 27 21.0–.21	67.83N	20.22E	2	0.8L		**¶602212948**
UPP	IV	20 23 27 21.1	67.84N	20.19E	0	0.8L		

HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.2km s-min=4.1km az=173.0. Mining explosion.
UPP Event type km. Mining explosion.

(536) Sweden

UPP	**IV**	**20 23 27 26.3**	**67.85N**	**20.20E**	**0**	**0.9L**		
CSEM	IV	20 23 27 23.2–.36	67.75N	20.67E	1	0.9L		**¶601129863**

UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=13.6km s-min=6.6km az=28.0. Mining explosion.

(548) Poland

PRU	**IV**	**21 00 39 08.6**	**50.34N**	**18.76E**	**0**			
								¶16456395

PRU Event type ki.
(548) Poland
ISC IV 21 07 47 14.0–.62 50.12N–.02 18.41E–.01 0 144 0-62
ISCJB IV 21 07 47 12.7–.28 50.08N–.02 18.33E–.02 0 3.4b ¶16456399
SIGU IV 21 07 47 13.1–.20 50.04N–.01 18.40E–.01 3–0 3.0b
IDC IV 21 07 47 13.5–2.5 49.80N 18.72E 0 3.4,3.3
CSEM IV 21 07 47 14.3–.20 50.08N 18.38E 1 3.5L,3.3
IPEC IV 21 07 47 14.6–.17 50.07N 18.44E 1–3 3.3L,3.3
PRU IV 21 07 47 15.3 50.07N 18.34E 0 3.3L,3.3
BGR IV 21 07 47 15.1–.35 50.09N 18.42E 1 3.4L,3.3
VIE IV 21 07 47 17.5–.79 49.97N 18.27E 10 3.5L,2.5b
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=2.9km s-min=1.8km az=10.0.
IDC Error ellipse: s-maj=42.7km s-min=9.3km az=135.0.
CSEM Event type ki. Error ellipse: s-maj=4.5km s-min=2.9km az=13.0.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=4.4km az=176.0.
VIE Error ellipse: s-maj=8.2km s-min=5.0km az=152.0.
(330) Lake Issyk-Kul region
ISC IV 21 08 12 27.4–.91 43.13N–.04 77.01E–.02 0 24 0-5
SOME IV 21 08 12 24.6 43.27N 77.23E ¶16872840
NNC IV 21 08 12 26.1–3.1 43.34N 77.07E 0 2.6b,2.5
KRNET IV 21 08 12 26.9–.10 43.10N 77.00E 17 2.0b,2.5
ISCJB IV 21 08 12 27.4–.49 43.11N–.03 77.03E–.03 0 2.0b,2.5
ISC Event type sm.
SOME Event type kx.
NNC Event type sm. Suspected Mining explosion.
ISCJB Event type sm.
(723) Finland-Karelia border region
ISC IV 21 09 00 07.1–.92 64.73N–.02 30.59E–.05 0 47 1-10
ISCJB IV 21 09 00 07.0–.72 64.71N–.03 30.8E–.10 0 ¶17201699
IDC IV 21 09 00 08.0–2.6 64.60N 31.02E 0 2.8,2.7
CSEM IV 21 09 00 08.3 64.72N 30.83E 0 1.8L,2.7
HEL IV 21 09 00 08.3–.20 64.72N 30.83E 0 1.8L,2.7
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=7.0km s-min=4.0km az=176.8.
IDC Error ellipse: s-maj=37.4km s-min=8.6km az=103.0.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0. Explosion.
(366) Turkey
ISC IV 21 09 14 06.8–.80 37.93N–.03 27.41E–.03 0 50 0-2
DDA IV 21 09 14 06.9 37.88N 27.45E 7 2.6 ¶16649073
ISCJB IV 21 09 14 07.2–.37 37.89N–.02 27.45E–.03 0 2.6
CSEM IV 21 09 14 07.6–.15 37.89N 27.46E 1 2.6
ISK IV 21 09 14 07.0 37.89N 27.42E 8 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=3.5km s-min=2.9km az=162.8.
CSEM Event type sm. Error ellipse: s-maj=3.6km s-min=2.6km az=77.0. Suspected Mining explosion.
(548) Poland
PRU IV 21 22 49 28.7 50.26N 18.77E 0
¶16456416
PRU Event type ki.
(547) Czech and Slovak Republics
PRU IV 22 00 33 10.1 49.84N 18.42E 0
¶16456553
PRU Event type ki.
(460) Wyoming
ISC IV 22 19 50 19.6–.82 41.84N–.05 106.42W–.06 0 34 1-21
IDC IV 22 19 50 16.9–3.3 41.54N 106.50W 0 4.0L,3.9 ¶17201835
ISCJB IV 22 19 50 19.4–.37 41.90N–.04 106.29W–.05 0 2.7b,3.9
NEIC IV 22 19 50 20.8–.41 41.89N 106.35W 0 3.4L,3.9
ISC Event type sm.
IDC Error ellipse: s-maj=42.1km s-min=13.7km az=169.0.
ISCJB Event type fm. Error ellipse: s-maj=6.1km s-min=3.9km az=40.2.
NEIC Event type fm. Error ellipse: s-maj=6.5km s-min=5.4km az=223.0. 62 km [38 miles] NE of Saratoga. Suspected Mining explosion.
(548) Poland
PRU IV 22 22 46 53.9 50.13N 19.10E 0
¶16456572
PRU Event type ki.
(548) Poland
ISC IV 23 03 56 56.8–.63 51.51N–.03 16.16E–.02 0 103 1-60
ISCJB IV 23 03 56 55.0–.29 51.51N–.02 16.22E–.03 0 2.8b ¶16456661
CSEM IV 23 03 56 57.6–.18 51.48N 16.24E 1 2.8L
IDC IV 23 03 56 58.8–.63 51.46N 15.99E 0 3.3,3.2
VIE IV 23 03 56 59.5 51.32N 16.26E 0 3.5b,3.0L
UPP IV 23 03 57 02.6–3.1 51.71N 15.76E 0 1.8L,3.0L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.6km s-min=2.3km az=153.4.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=2.8km az=74.0.
IDC Error ellipse: s-maj=13.2km s-min=6.4km az=105.0.
VIE Event type sr. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
(548) Poland
CSEM IV 23 03 59 02.5–.34 50.06N 18.43E 1 1.8L
IPEC IV 23 03 59 02.8–.17 50.04N 18.48E 0–3 1.8L ¶16456662
PRU IV 23 03 59 03.3 50.05N 18.42E 0 1.8L
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=4.7km az=6.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
PRU Event type ki.
(548) Poland
PRU IV 23 04 34 02.7 50.31N 18.77E 0
¶16456663
PRU Event type ki.
(329) Eastern Kazakhstan
ISC IV 23 13 12 27.1–.84 50.02N–.06 78.66E–.07 0 3.7b 16 1-43
ISCJB IV 23 13 12 25.6–.69 50.00N–.05 78.59E–.08 0 4.7s,3.9b ¶16707791
IDC IV 23 13 12 26.9–.88 50.08N 78.91E 0 4.7,4.7s
NNC IV 23 13 12 26.4–1.1 50.03N 78.68E 0 3.4b,3.1
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.3km s-min=6.0km az=137.5.
IDC Error ellipse: s-maj=18.6km s-min=7.2km az=58.0.
NNC Event type sm. Error ellipse: s-maj=12.7km s-min=6.6km az=83.0. Suspected Mining explosion.
(536) Sweden
HEL IV 23 23 36 04.8 67.79N 20.18E 0 1.5L
CSEM IV 23 23 36 04.2–.48 67.76N 20.32E 1 1.2L ¶600889000
UPP IV 23 23 36 05.0 67.83N 20.19E 0 1.2L
HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=10.7km s-min=9.1km az=41.0. Mining explosion.
UPP Event type km. Mining explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC IV 24 02 23 35.0–1.6 67.62N–.03 33.91E–.08 0 67 0-12
KOLA IV 24 02 23 37.0 67.67N 33.78E 0 ¶602945446
HEL IV 24 02 23 36.5–.40 67.65N 33.85E 0 2.1L
CSEM IV 24 02 23 37.9–.52 67.59N 33.37E 1 2.6L
NAO IV 24 02 23 37.2–1.0 67.67N 33.72E 2.6L
ISC Event type km.
KOLA Event type km.
HEL Event type kh. Error ellipse: s-maj=2.2km s-min=6.8km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=10.1km s-min=7.2km az=82.0. Mining explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC IV 24 02 25 04.2–.57 36.95N–.05 143.88E–.06 35 4.0b,2.7s 87 2-145
IDC IV 24 02 24 58.6–.68 36.83N 143.99E 0 4.1,4.0 ¶601129960
NEIC IV 24 02 25 00.8–3.7 36.88N 144.06E 14–22 4.2b,4.0
MOS IV 24 02 25 01.8–1.4 36.90N 144.07E 33 4.4b,4.0
ISCJB IV 24 02 25 02.4–.38 36.93N–.04 143.84E–.04 33 4.0b,2.8s
JMA IV 24 02 25 03.4–.20 36.97N 143.75E 45 4.6,2.8s

ISC Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=16.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.0km az=135.0.
MOS Error ellipse: s-maj=11.3km s-min=7.5km az=114.6.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=173.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
(536) Sweden
UPP IV 24 23 36 32.8 67.85N 20.21E 1 1.2L
NAO IV 24 23 36 30.2–1.7 67.66N 20.07E 2.0L ¶602600745
CSEM IV 24 23 36 32.8–.20 67.83N 20.20E 2 1.2L
BER IV 24 23 36 34.5–3.8 67.79N 20.09E 0 2.0L,1.6L
UPP Event type km. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type km. Error ellipse: s-maj=5.3km s-min=4.3km az=121.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=9.3km s-min=23.2km az=-1.0. Suspected explosion.
(536) Sweden
UPP IV 24 23 36 39.0 67.86N 20.19E 1 1.6L
CSEM IV 24 23 36 39.0 67.86N 20.19E 1 1.6L ¶602600748
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
(366) Turkey
ISC IV 25 08 31 17.0–.84 37.22N–.03 28.05E–.03 0 27 0-1
ISK IV 25 08 31 17.5 37.29N 28.20E 7 2.5,2.3L ¶16649356
ISCJB IV 25 08 31 18.2–.60 37.28N–.03 28.22E–.05 0 2.5,2.3L
CSEM IV 25 08 31 18.4–.23 37.28N 28.22E 1 2.5,2.3L
DDA IV 25 08 31 18.1 37.25N 28.22E 7 2.5,2.3L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=3.3km az=141.5.
CSEM Event type sm. Error ellipse: s-maj=7.8km s-min=3.3km az=54.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC IV 25 13 09 46.2–1.5 67.67N–.04 33.48E–.07 0 53 0-7
HEL IV 25 13 09 44.8–.40 67.71N 33.84E 0 2.1L ¶602945449
NAO IV 25 13 09 44.9–1.5 67.64N 33.78E 2.7L
CSEM IV 25 13 09 46.5–.51 67.52N 33.25E 1 2.7L
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=2.0km s-min=6.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9.7km s-min=8.4km az=121.0. Mining explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC IV 25 13 10 23.1–.81 14.03N–.03 60.12W–.05 69–7 4.5b 440 1-165
IDC IV 25 13 10 19.3–1.9 14.01N 60.01W 33–13 4.9L,4.2 ¶602602110
NEIC IV 25 13 10 21.8 14.04N 60.10W 70 4.6b,4.2
BJI IV 25 13 10 21.9 14.10N 60.10W 67 4.6b,4.2
TRN IV 25 13 10 21.8 14.03N 60.11W 68 4.3,4.2
ISCJB IV 25 13 10 22.3–.30 14.01N–.02 60.14W–.03 76–2 4.4b,4.2
FUNV IV 25 13 10 23.7 13.91N 59.80W 72 4.3W,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=12.8km az=93.0.
NEIC Event type fe. Felt [IV] at Le Robert and [II] at Fort-de-France, Martinique. Also felt at Ducos, Le Francois, Le Lamentin, Saint-Pierre, Sainte-Luce, Sainte-Marie and Schoelcher. Felt at Castries, Saint Lucia and at Biabou, Saint Vincent. After TRN.
TRN Event type fe. Felt in Saint Lucia MMI III, and St. VincentMMI II and III.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.6km az=171.4.
(329) Eastern Kazakhstan
ISC IV 25 13 37 52.1–.87 50.09N–.06 78.80E–.06 0 19 1-7
SOME IV 25 13 37 47.7 49.93N 78.73E ¶16707969
ISCJB IV 25 13 37 50.3–.73 50.00N–.05 78.56E–.07 0
NNC IV 25 13 37 51.6–.59 50.04N 78.65E 0 3.5b,3.2
IDC IV 25 13 37 52.1–.83 50.06N 78.79E 0 3.4,3.4
ISC Event type sm.
SOME Event type kx.
ISCJB Event type sm. Error ellipse: s-maj=7.9km s-min=5.8km az=39.0.
NNC Event type sm. Error ellipse: s-maj=6.0km s-min=3.7km az=88.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=11.5km s-min=6.3km az=57.0.
(548) Poland
ISC IV 25 13 52 46.5–2.1 51.43N–.09 16.25E–.07 0 25 1-3
CSEM IV 25 13 52 47.5–1.4 51.48N 16.08E 1 2.5L ¶16466074
PRU IV 25 13 52 48.6 51.45N 16.10E 0 2.5L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=20.2km s-min=11.7km az=13.0.
PRU Event type ki.
(548) Poland
ISC IV 25 17 00 21.7–1.5 51.53N–.07 16.08E–.04 0 56 1-4
ISCJB IV 25 17 00 21.3–.87 51.51N–.04 15.99E–.04 0 ¶16466075
CSEM IV 25 17 00 21.9–.55 51.53N 16.06E 2 2.9L
PRU IV 25 17 00 23.4 51.51N 15.99E 0 2.9L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=3.1km az=20.4.
CSEM Event type ki. Error ellipse: s-maj=8.6km s-min=4.6km az=19.0.
PRU Event type ki.
(548) Poland
PRU IV 26 01 08 29.6 50.28N 18.76E 0
CSEM IV 26 01 08 28.9–.28 50.31N 18.77E 2 ¶16466079
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=3.3km az=8.0.
(366) Turkey
ISC IV 26 08 57 40.4–.83 37.10N–.05 28.05E–.04 0 22 0-1
ISCJB IV 26 08 57 41.9–.53 37.20N–.03 28.17E–.04 0 ¶16649407
DDA IV 26 08 57 41.6 37.22N 28.17E 7 2.6
ISK IV 26 08 57 41.3 37.22N 28.17E 2 2.5
CSEM IV 26 08 57 42.1–.35 37.21N 28.18E 1 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=3.4km az=40.3.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9.9km s-min=5.7km az=40.0. Suspected Mining explosion.
(548) Poland
ISC IV 27 02 39 49.7–.77 50.07N–.03 18.39E–.02 0 60 0-4
ISCJB IV 27 02 39 48.4–.40 50.11N–.03 18.33E–.02 0 ¶16466097
IPEC IV 27 02 39 49.5–.17 50.06N 18.47E 0–2 1.8L
CSEM IV 27 02 39 49.3–.26 50.11N 18.37E 1 2.8L
PRU IV 27 02 39 51.0 50.05N 18.33E 0 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.1km s-min=2.2km az=7.7.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.1km s-min=3.1km az=9.0.
PRU Event type ki.
(366) Turkey
ISC IV 27 12 53 24.5–.86 39.00N–.02 29.85E–.02 0 58 0-2
ISCJB IV 27 12 53 24.1–.41 39.00N–.02 29.86E–.03 0 ¶16649458
CSEM IV 27 12 53 24.6–.12 38.99N 29.83E 2 2.7
DDA IV 27 12 53 24.2 38.99N 29.84E 8 2.7
ISK IV 27 12 53 24.8 38.99N 29.75E 8 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.7km s-min=3.1km az=143.7.
CSEM Event type sm. Error ellipse: s-maj=2.5km s-min=2.2km az=149.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
ISC IV 27 14 20 38.2–.79 50.14N–.03 19.02E–.02 0 59 0-4
ISCJB IV 27 14 20 37.5–.44 50.17N–.03 18.95E–.03 0 ¶16466105
CSEM IV 27 14 20 37.8–.34 50.22N 19.04E 2 2.6L
PRU IV 27 14 20 38.8 50.22N 19.02E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.9km s-min=2.4km az=18.6.
CSEM Event type ki. Error ellipse: s-maj=8.5km s-min=3.7km az=15.0.
PRU Event type ki.
(548) Poland
ISC IV 27 15 42 12.9–1.9 51.48N–.09 16.11E–.05 0 37 1-3

CSEM IV 27 15 42 12.2–.76 51.50N 16.09E 2 2.7L ¶16466108
PRU IV 27 15 42 13.5 51.46N 16.12E 0 2.7L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=11.1km s-min=7.0km az=7.0.
PRU Event type ki.

(536) Sweden

ISC IV 27 17 07 11.1–.76 67.09N–.02 20.99E–.03 0 73 1-8
ISCJB IV 27 17 07 10.4–.38 67.09N–.02 21.13E–.08 0 ¶601130112
CSEM IV 27 17 07 10.9–.36 67.10N 21.19E 2 1.8L
HEL IV 27 17 07 11.1 67.07N 20.87E 0 2.3L
UPP IV 27 17 07 11.3–.10 67.07N 20.88E 0 1.8L
IDC IV 27 17 07 12.3–.75 67.14N 21.55E 0 2.8,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.3km s-min=3.0km az=174.9.
CSEM Event type km. Error ellipse: s-maj=8.9km s-min=6.9km az=75.0. Mining explosion.
HEL Event type kh. Explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=15.0km s-min=5.9km az=114.0.

(460) Wyoming

ISC IV 27 19 09 22.4–.82 43.35N–.04 105.16W–.03 0 41 1-20
IDC IV 27 19 09 22.8–2.2 43.61N 105.40W 0 3.4,3.2 ¶17202252
NEIC IV 27 19 09 23.0–.82 43.63N 105.35W 0 3.0L,3.2
ISC Event type sm.
IDC Error ellipse: s-maj=45.3km s-min=10.2km az=150.0.
NEIC Event type fm. Error ellipse: s-maj=12.7km s-min=8.8km az=180.0. 75 km [46 miles] S of Gillette. Suspected Mining explosion.

(536) Sweden

UPP IV 27 23 42 39.0 67.83N 20.19E 0 0.6L
CSEM IV 27 23 42 42.8–.38 67.71N 19.66E 2 0.6L ¶602213075
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9.4km s-min=6.9km az=179.0. Mining explosion.

(366) Turkey

ISC IV 28 08 24 22.0–.95 41.15N–.03 34.75E–.03 0 34 0-2
ISCJB IV 28 08 24 23.6–.47 41.12N–.03 34.76E–.03 0 ¶16649505
DDA IV 28 08 24 23.4 41.12N 34.74E 7 2.7
CSEM IV 28 08 24 23.8–.17 41.12N 34.76E 2 2.7
ISK IV 28 08 24 23.3 41.14N 34.79E 5 2.6L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.8km s-min=3.6km az=160.7.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=3.6km s-min=3.2km az=167.0. Suspected Mining explosion.

(366) Turkey

DDA IV 28 08 26 28.9 38.71N 29.31E 7 2.8
CSEM IV 28 08 26 17.4–.84 38.18N 29.97E 1 2.8 ¶601583894
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=35.0km s-min=15.8km az=48.0. Suspected Mining explosion.

(366) Turkey

ISC IV 28 08 32 38.6–.89 39.72N–.02 29.46E–.03 0 34 0-1
ISK IV 28 08 32 36.5 39.65N 29.77E 12 2.5 ¶16649506
ISCJB IV 28 08 32 38.6–.45 39.70N–.02 29.47E–.04 0 2.5
CSEM IV 28 08 32 38.4–.36 39.71N 29.46E 1 2.5
DDA IV 28 08 32 38.3 39.70N 29.47E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.3km az=5.5.
CSEM Event type sm. Error ellipse: s-maj=8.5km s-min=5.9km az=98.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(537) Baltic Sea

UPP IV 28 10 00 15.2–.40 55.99N 15.58E 0 2.5L
CSEM IV 28 10 00 14.8–.28 55.95N 15.61E 2 2.5L ¶16487727
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.4km s-min=4.2km az=136.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC IV 28 11 21 25.5–1.1 60.95N–.05 29.25E–.05 0 42 1-9
CSEM IV 28 11 21 25.8–.54 60.94N 29.15E 2 2.0L ¶17202299
ISCJB IV 28 11 21 26.5–.89 61.05N–.04 29.02E–.09 0 2.0L
HEL IV 28 11 21 27.8–.30 60.90N 29.20E 0 2.0L
IDC IV 28 11 21 29.8–2.2 60.86N 28.99E 0 3.4,3.2
ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=9.2km s-min=5.5km az=121.0. Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=6.6km s-min=4.6km az=31.9.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=4.5km az=-1.0. Explosion.
IDC Error ellipse: s-maj=17.9km s-min=11.9km az=164.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC IV 28 17 44 59.4–.78 59.01N–.03 23.11E–.03 0 72 0-11
ISCJB IV 28 17 44 59.0–.36 59.02N–.03 23.08E–.04 0 ¶16476118
IDC IV 28 17 44 58.7–3.3 58.85N 23.38E 0 3.0,2.9
CSEM IV 28 17 44 59.9–.18 59.00N 23.14E 2 1.8L,2.9
HEL IV 28 17 45 00.2–.10 58.99N 23.05E 0 2.1L,1.8L
UPP IV 28 17 45 01.9–2.1 59.14N 22.86E 0 2.1L,1.8L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.9km s-min=3.3km az=171.8.
IDC Error ellipse: s-maj=38.4km s-min=12.8km az=163.0.
CSEM Event type km. Error ellipse: s-maj=5.1km s-min=3.9km az=177.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0. Explosion.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC IV 29 00 32 11.1–1.0 51.41N–.05 16.14E–.02 0 65 1-4
ISCJB IV 29 00 32 09.4–.70 51.41N–.03 16.18E–.03 0 ¶16485894
CSEM IV 29 00 32 10.2–.44 51.44N 16.15E 2 3.0L
PRU IV 29 00 32 12.1 51.40N 16.14E 0 3.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.0km s-min=2.8km az=9.9.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=3.6km az=175.0.
PRU Event type ki.

(713) Central Kazakhstan

ISC IV 29 04 36 49.9–1.1 46.92N–.05 74.15E–.06 0 25 2-5
SOME IV 29 04 36 50.9 46.97N 74.13E 0 ¶16912175
NNC IV 29 04 36 52.1–1.3 46.91N 73.96E 4–18 3.1b,2.8
ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=28.4km s-min=5.4km az=83.0. Suspected Mining explosion.

(366) Turkey

ISC IV 29 09 07 23.5–6.0 37.2N–.50 27.7E–.70 0 5 0-1
ISCJB IV 29 09 07 22.2–3.4 37.2N–.10 27.9E–.20 0 ¶601583950
DDA IV 29 09 07 24.2 37.33N 27.57E 7 2.3
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=29.7km s-min=7.6km az=39.2.
DDA Event type sm. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC IV 29 10 03 21.0–1.6 67.66N–.05 34.19E–.09 0 38 0-12
ISCJB IV 29 10 03 20.6–1.2 67.70N–.05 34.2E–.20 0 ¶16497352
HEL IV 29 10 03 20.7–.60 67.74N 34.60E 0 2.6L
CSEM IV 29 10 03 22.2–.66 67.69N 34.09E 2 2.7L
NAO IV 29 10 03 23.9–1.7 67.60N 33.76E 2.7L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=10.1km s-min=7.3km az=3.4.
HEL Event type kh. Error ellipse: s-maj=3.5km s-min=4.1km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=14.3km s-min=9.5km az=87.0. Mining explosion.

(366) Turkey

ISC IV 29 11 02 44.0–1.3 39.11N–.04 27.42E–.05 0 28 0-1
ISCJB IV 29 11 02 44.9–.86 39.08N–.04 27.48E–.05 0 ¶601583961
ISK IV 29 11 02 44.8 39.07N 27.51E 13 2.4
CSEM IV 29 11 02 45.2–.36 39.07N 27.47E 1 2.7
DDA IV 29 11 02 45.8 39.08N 27.53E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=4.8km az=40.9.
CSEM Event type sm. Error ellipse: s-maj=6.8km s-min=5.2km az=117.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(544) Switzerland

ISC IV 29 13 40 31.1–1.3 48.04N–.07 8.64E–.03 0 24 0-2
ZUR IV 29 13 40 30.7 47.97N 8.64E 0 1.6L ¶16497361
ISCJB IV 29 13 40 32.8–.81 47.91N–.05 8.71E–.04 0 1.6L
CSEM IV 29 13 40 32.8–.18 47.94N 8.67E 1 2.5L
VIE IV 29 13 40 33.5–.67 48.01N 8.82E 0 2.0L,1.2b
ISC Event type sm.
ZUR Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.4km s-min=4.2km az=170.9.
CSEM Event type sm. Error ellipse: s-maj=4.4km s-min=2.4km az=174.0. Suspected Mining explosion.
VIE Event type sm. Error ellipse: s-maj=5.6km s-min=4.1km az=22.0. Suspected Mining explosion.

(548) Poland

ISC IV 29 15 38 32.5–.62 51.54N–.03 16.11E–.02 0 154 1-60
ISCJB IV 29 15 38 31.9–.40 51.49N–.02 16.10E–.03 0 3.3b ¶16485899
CSEM IV 29 15 38 33.7–.17 51.47N 16.10E 2 3.6L
IDC IV 29 15 38 33.8–.65 51.49N 15.95E 0 3.4,3.3
BGR IV 29 15 38 34.2–.43 51.51N 16.11E 1 3.1L,3.3
VIE IV 29 15 38 38.1–1.0 51.20N 16.13E 0 3.1L,2.7b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.3km s-min=2.2km az=14.0.
CSEM Event type ki. Error ellipse: s-maj=3.4km s-min=2.1km az=13.0.
IDC Error ellipse: s-maj=10.9km s-min=6.8km az=105.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=20.0.
VIE Event type sr. Error ellipse: s-maj=8.8km s-min=7.1km az=113.0. Suspected Mining induced.

(547) Czech and Slovak Republics

PRU IV 29 16 16 08.6 49.85N 18.54E 0
CSEM IV 29 16 16 08.5–1.4 49.96N 18.51E 1 ¶16485900
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=23.0km s-min=15.8km az=89.0.

(460) Wyoming

ISC IV 29 18 10 01.6–.72 43.57N–.05 105.23W–.05 0 65 1-62
ISCJB IV 29 18 10 00.4–.37 43.65N–.03 105.19W–.04 0 4.0b,2.9s ¶17202401
IDC IV 29 18 10 00.9–.92 43.46N 105.39W 0 3.9,3.8b
NEIC IV 29 18 10 02.5–.29 43.65N 105.23W 0 3.6L,3.8b
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.7km s-min=4.3km az=143.4.
IDC Error ellipse: s-maj=18.2km s-min=9.0km az=155.0.
NEIC Event type fm. Error ellipse: s-maj=3.8km s-min=3.4km az=52.0. 73 km [45 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC IV 30 03 32 01.6–.66 51.51N–.03 16.15E–.02 0 156 1-60
ISCJB IV 30 03 31 59.8–.30 51.53N–.02 16.19E–.03 0 3.4b ¶16485914
CSEM IV 30 03 32 02.0–.17 51.50N 16.16E 2 3.6L
IDC IV 30 03 32 02.9–.73 51.47N 16.10E 0 3.3,3.3b
BGR IV 30 03 32 03.6–.52 51.47N 16.17E 1 3.0L,3.3b
UPP IV 30 03 32 03.6–3.2 51.48N 15.38E 0 1.7L,3.3b
ISC Event type sh.
ISCJB Event type sh. Error ellipse: s-maj=2.6km s-min=2.4km az=19.5.
CSEM Event type ki. Error ellipse: s-maj=3.4km s-min=3.0km az=37.0.
IDC Error ellipse: s-maj=13.9km s-min=7.3km az=107.0.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=23.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(366) Turkey

ISC IV 30 07 52 04.4–.79 39.11N–.02 34.28E–.02 0 37 1-2
ISK IV 30 07 52 02.4 38.41N 33.04E 10 2.5 ¶16649646
ISCJB IV 30 07 52 05.4–.47 39.09N–.03 34.29E–.04 0 2.5
DDA IV 30 07 52 05.1 39.10N 34.32E 7 2.9
CSEM IV 30 07 52 05.1–.34 39.09N 34.29E 2 2.9
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.4km s-min=3.9km az=156.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.3km s-min=6.8km az=145.0. Suspected Mining explosion.

(366) Turkey

ISC IV 30 10 37 38.5–.88 39.55N–.04 36.82E–.03 0 25 0-2
ISCJB IV 30 10 37 38.7–.74 39.53N–.04 36.81E–.05 0 ¶16649658
CSEM IV 30 10 37 38.6–.50 39.55N 36.82E 1 2.9
ISK IV 30 10 37 38.1 39.58N 36.71E 9 2.9
DDA IV 30 10 37 40.0 39.55N 36.91E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.3km s-min=5.2km az=143.4.
CSEM Event type sm. Error ellipse: s-maj=12.4km s-min=11.3km az=47.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC IV 30 13 36 25.9–.87 39.53N–.04 35.40E–.02 0 32 0-2
DDA IV 30 13 36 24.9 39.46N 35.35E 7 2.8 ¶16649668
ISCJB IV 30 13 36 25.6–.58 39.53N–.04 35.39E–.04 0 2.8
ISK IV 30 13 36 26.5 39.63N 35.41E 9 2.6
CSEM IV 30 13 36 26.1–.26 39.54N 35.40E 2 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.1km s-min=4.0km az=10.2.
CSEM Event type sm. Error ellipse: s-maj=6.7km s-min=4.8km az=7.0. Suspected Mining explosion.

(548) Poland

ISC IV 30 15 40 08.4–.47 51.55N–.03 16.09E–.02 0 3.8b 328 1-75
ISCJB IV 30 15 40 07.0–.20 51.52N–.01 16.13E–.02 0 3.7b,3.4s ¶16485929
MOS IV 30 15 40 08.5–.97 51.59N 16.11E 10 4.1b,3.4s
LDG IV 30 15 40 08.2–.11 51.56N 16.17E 1 3.7L,3.4s
IPEC IV 30 15 40 08.7–.29 51.55N 16.19E 0 3.2L,3.4s
IDC IV 30 15 40 09.9–.56 51.50N 15.98E 0 3.7,3.7b
CSEM IV 30 15 40 09.1–.10 51.52N 16.08E 2 4.0b,3.9L
PRU IV 30 15 40 10.2 51.49N 16.10E 0 4.0b,3.9L
BGR IV 30 15 40 11.2–.43 51.45N 16.08E 1 3.6L,3.9L
VIE IV 30 15 40 13.0–.58 51.25N 16.06E 0 3.5s,3.2L
UPP IV 30 15 40 15.5–3.0 51.89N 15.50E 0 2.0L,3.2L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.9km s-min=1.7km az=4.5.
MOS Error ellipse: s-maj=9.6km s-min=5.1km az=85.9.
LDG Event type sr. Error ellipse: s-maj=3.1km s-min=1.7km az=177.0. Suspected Mining induced.
IPEC Event type ki. Error ellipse: s-maj=3.3km s-min=1.7km az=66.0.
IDC Error ellipse: s-maj=9.7km s-min=6.7km az=99.0.
CSEM Event type ki. Error ellipse: s-maj=2.3km s-min=2.2km az=122.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=16.0.
VIE Event type sr. Error ellipse: s-maj=4.5km s-min=3.5km az=39.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC IV 30 23 22 26.3–1.5 51.48N–.07 16.11E–.04 0 47 1-3
ISCJB IV 30 23 22 25.2–1.0 51.47N–.04 16.07E–.05 0 ¶601130255
CSEM IV 30 23 22 25.5–.67 51.51N 16.09E 1 2.6L
PRU IV 30 23 22 27.1 51.47N 16.10E 0 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.9km s-min=3.6km az=26.1.
CSEM Event type ki. Error ellipse: s-maj=10.3km s-min=5.3km az=14.0.
PRU Event type ki.

(548) Poland

ISC V 01 05 13 45.5–1.1 51.46N–.05 16.15E–.02 0 63 1-4
ISCJB V 01 05 13 44.0–.68 51.45N–.03 16.15E–.04 0 ¶16497371
CSEM V 01 05 13 45.1–.39 51.46N 16.15E 2 2.8L
WAR V 01 05 13 46.0 51.46N 16.15E 1 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=3.1km az=12.0.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=3.6km az=178.0.

(547) Czech and Slovak Republics

ISC V 01 20 00 48.3–.81 49.79N–.04 18.51E–.02 0 41 0-3
ISCJB V 01 20 00 47.5–.55 49.81N–.04 18.50E–.03 0 ¶16497384
IPEC V 01 20 00 48.6–.18 49.81N 18.58E 1–4 1.6L

CSEM V 01 20 00 48.1–.25 49.80N 18.53E 1 2.5L
PRU V 01 20 00 49.7 49.83N 18.47E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.6km s-min=3.2km az=5.3.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=3.4km az=1.0.
PRU Event type ki.

(366) Turkey

ISC V 01 23 29 01.3–.94 40.64N–.03 30.58E–.02 0 40 0-2
DDA V 01 23 29 00.9 40.65N 30.58E 7 2.6 **¶16853100**
ISCJB V 01 23 29 01.1–.51 40.63N–.04 30.55E–.04 0 2.6
CSEM V 01 23 29 01.3–.16 40.63N 30.59E 5 2.9
ISK V 01 23 29 02.3 40.58N 30.47E 7 2.9
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.5km s-min=4.6km az=22.6.
CSEM Event type sm. Error ellipse: s-maj=3.9km s-min=3.4km az=21.0. Suspected Mining explosion.

(543) Germany

ISC V 02 02 57 21.3–.79 52.80N–.03 9.09E–.02 0 109 0-7
CSEM V 02 02 57 19.2–.26 52.96N 9.06E 1 2.7L **¶16489780**
ISCJB V 02 02 57 20.9–.47 52.67N–.03 8.99E–.04 0 2.7L
BNS V 02 02 57 21.6–.44 52.94N 9.28E 1–9 2.6L
LDG V 02 02 57 21.3–.12 52.97N 9.21E 5 2.6L
BGR V 02 02 57 21.1–.68 52.93N 9.29E 4–3 2.5L
PRU V 02 02 57 22.8 52.98N 9.58E 9 2.5L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=5.4km s-min=4.0km az=153.0.
ISCJB Event type ki. Error ellipse: s-maj=4.4km s-min=2.8km az=29.1.
BNS Event type ki.
LDG Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=152.0.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=3.3km az=64.0.

(546) Austria

VIE V 02 12 46 31.4–.16 46.68N 13.78E 0 0.9L,-0.4b ¶601242618
VIE Event type km. Error ellipse: s-maj=1.3km s-min=1.1km az=15.0. Mining explosion.

(537) Baltic Sea

ISC V 02 13 06 08.6–.81 58.73N–.03 18.27E–.03 0 62 0-11
ISCJB V 02 13 06 08.7–.43 58.67N–.03 18.44E–.06 0 **¶16487759**
UPP V 02 13 06 09.1–.20 58.71N 18.55E 0 1.8L
CSEM V 02 13 06 09.8–.29 58.69N 18.35E 2 1.8L
IDC V 02 13 06 12.9–2.0 58.91N 18.49E 0 2.8,2.7
NAO V 02 13 06 12.8–2.3 58.91N 18.46E 2.2L,2.7
BER V 02 13 06 13.6–3.1 58.87N 18.43E 0 2.2L,2.7
HEL V 02 13 06 20.9–.40 59.21N 19.31E 0 1.6L,2.7
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.6km s-min=4.2km az=29.9.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.2km s-min=6.0km az=103.0. Mining explosion.
IDC Error ellipse: s-maj=24.6km s-min=8.3km az=174.0.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=26.2km s-min=13.0km az=-1.0. Suspected explosion.
HEL Event type kh. Error ellipse: s-maj=2.3km s-min=2.7km az=-1.0. Explosion.

(537) Baltic Sea

ISC V 02 13 41 33.4–.78 58.71N–.02 18.48E–.03 0 118 0-11
ISCJB V 02 13 41 32.7–.34 58.69N–.03 18.54E–.05 0 **¶601479786**
UPP V 02 13 41 33.4–.20 58.70N 18.52E 0 2.3L
IDC V 02 13 41 34.7–1.9 58.64N 18.49E 0 2.9,2.8
CSEM V 02 13 41 34.1–.12 58.70N 18.43E 2 2.3L,2.8
HEL V 02 13 41 36.1 58.76N 18.76E 0 1.7L,2.8
NAO V 02 13 41 38.4–2.1 59.13N 18.39E 2.4L,2.8
BER V 02 13 41 39.2–4.3 59.05N 18.39E 0 2.4L,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.9km s-min=3.2km az=151.6.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=21.1km s-min=8.3km az=172.0.
CSEM Event type km. Error ellipse: s-maj=3.3km s-min=2.7km az=125.0. Mining explosion.
HEL Event type kh. Explosion.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=35.1km s-min=17.4km az=-1.0. Suspected explosion.

(537) Baltic Sea

ISC V 02 15 41 45.4–.70 58.76N–.02 18.28E–.02 0 116 0-11
ISCJB V 02 15 41 46.7–.32 58.73N–.02 18.42E–.04 0 **¶601479791**
UPP V 02 15 41 46.4–.20 58.70N 18.54E 0 2.2L
CSEM V 02 15 41 47.3–.21 58.74N 18.42E 2 2.2L
NAO V 02 15 41 48.8–2.0 58.76N 18.49E 2.4L
HEL V 02 15 41 50.0 58.84N 18.47E 0 2.2L
IDC V 02 15 41 51.2–1.9 58.95N 18.58E 0 2.9,2.8
BER V 02 15 41 52.0–2.9 58.94N 18.54E 0 2.4L,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.5km s-min=3.0km az=151.6.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.5km s-min=4.5km az=120.0. Mining explosion.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
HEL Event type kh. Explosion.
IDC Error ellipse: s-maj=21.7km s-min=8.6km az=173.0.
BER Event type sh. Error ellipse: s-maj=19.5km s-min=12.5km az=-1.0. Suspected explosion.

(537) Baltic Sea

ISC V 02 16 10 47.0–.76 58.69N–.02 18.50E–.03 0 106 0-11
UPP V 02 16 10 46.8–.20 58.69N 18.54E 0 2.4L **¶16497409**
ISCJB V 02 16 10 46.7–.33 58.68N–.02 18.42E–.04 0 2.4L
CSEM V 02 16 10 47.5–.19 58.71N 18.45E 2 2.4L
HEL V 02 16 10 47.8–.00 58.70N 18.51E 0 2.4L,2.0L
IDC V 02 16 10 49.6–2.0 58.80N 18.61E 0 2.9,2.8
NAO V 02 16 10 49.9–2.0 58.86N 18.44E 2.4L,2.8
BER V 02 16 10 51.4–2.0 58.93N 18.51E 0 2.4L,2.8
ISC Event type km.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
ISCJB Event type km. Error ellipse: s-maj=3.6km s-min=3.3km az=158.9.
CSEM Event type km. Error ellipse: s-maj=5.0km s-min=4.1km az=130.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.2km s-min=0.2km az=-1.0. Explosion.
IDC Error ellipse: s-maj=24.1km s-min=8.7km az=167.0.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
BER Event type sh. Error ellipse: s-maj=14.0km s-min=9.1km az=-1.0. Suspected explosion.

(536) Sweden

ISC V 02 23 37 21.0–.83 67.71N–.03 20.03E–.03 0 48 0-16
ISCJB V 02 23 37 22.7–.77 67.79N–.03 20.3E–.10 0 **¶603789058**
CSEM V 02 23 37 23.3 67.83N 20.21E 0 1.1L
UPP V 02 23 37 23.3 67.83N 20.21E 0 1.1L
HEL V 02 23 37 24.0–.10 67.82N 20.21E 0 1.5L,1.1L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.7km s-min=4.3km az=169.5.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
UPP Event type km. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0. Explosion.

(543) Germany

ISC V 03 03 37 28.2–.79 51.45N–.02 6.53E–.02 0 160 0-7
ISCJB V 03 03 37 27.1–.49 51.54N–.03 6.41E–.04 0 **¶16497471**
CSEM V 03 03 37 28.9–.27 51.50N 6.49E 1 2.9L
BUG V 03 03 37 29.2 51.48N 6.58E 1 2.2L
BNS V 03 03 37 30.9–1.1 51.46N 6.60E 1 2.1L
BGR V 03 03 37 30.9–.42 51.54N 6.61E 1 2.2L
LDG V 03 03 37 31.3–.10 51.41N 6.55E 1 3.0,2.5L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=4.1km s-min=3.1km az=162.3.
CSEM Event type ki. Error ellipse: s-maj=5.7km s-min=4.3km az=141.0.
BUG Event type ki.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=3.3km az=129.0.
LDG Event type sr. Error ellipse: s-maj=1.8km s-min=1.5km az=6.0. Suspected Mining induced.

(548) Poland

PRU V 03 07 33 36.0 49.83N 18.42E 0
CSEM V 03 07 33 08.5–.67 50.99N 19.68E 1 **¶16497493**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=25.2km s-min=15.2km az=141.0.

(366) Turkey

DDA V 03 08 54 38.6 39.67N 29.48E 7 2.6
CSEM V 03 08 54 38.6 39.67N 29.48E 7 2.6 **¶601584076**
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(366) Turkey

ISC V 03 10 33 39.1–.96 37.08N–.03 34.48E–.03 0 26 0-1
ISK V 03 10 33 38.6 37.08N 34.43E 6 2.0 **¶16853166**
DDA V 03 10 33 39.7 36.99N 34.49E 7 2.6
ISCJB V 03 10 33 40.3–.55 37.03N–.03 34.49E–.04 0 2.6
CSEM V 03 10 33 40.2–.26 37.03N 34.47E 1 2.0
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.6km az=36.2.
CSEM Event type sm. Error ellipse: s-maj=6.9km s-min=4.5km az=117.0. Suspected Mining explosion.

(536) Sweden

ISC V 03 17 00 56.1–.93 67.16N–.04 21.07E–.06 0 39 2-11
ISCJB V 03 17 00 54.9–.55 67.08N–.04 21.2E–.10 0 **¶16497547**
NAO V 03 17 00 56.9–.90 67.16N 21.41E 2.2L
CSEM V 03 17 00 56.3–.33 67.14N 21.04E 1 2.2L
IDC V 03 17 00 57.4–1.6 67.18N 21.39E 0 2.8,2.7
BER V 03 17 00 59.1–4.2 67.16N 21.13E 0 2.2L,2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.9km s-min=4.8km az=22.1.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
CSEM Event type sm. Error ellipse: s-maj=11.5km s-min=7.6km az=113.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=26.2km s-min=15.2km az=99.0.
BER Event type sh. Error ellipse: s-maj=8.1km s-min=26.2km az=-1.0. Suspected explosion.

(460) Wyoming

ISC V 03 21 02 34.7–.68 43.77N–.04 105.16W–.05 0 66 1-90
ISCJB V 03 21 02 34.5–.39 43.73N–.03 105.23W–.04 0 4.0b **¶17202714**
IDC V 03 21 02 35.3–.89 44.17N 105.80W 0 3.9b,3.8
NEIC V 03 21 02 35.9–.52 43.74N 105.20W 0 3.7L,3.8
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.3km s-min=4.0km az=35.3.
IDC Error ellipse: s-maj=24.8km s-min=8.1km az=144.0.
NEIC Event type fm. Error ellipse: s-maj=6.8km s-min=6.4km az=74.0. 66 km [41 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC V 03 22 57 52.8–.83 51.56N–.03 16.14E–.02 0 74 1-4
ISCJB V 03 22 57 52.3–.54 51.49N–.03 16.11E–.04 0 **¶16497583**
IPEC V 03 22 57 53.0–.19 51.55N 16.21E 0 1.9L
CSEM V 03 22 57 53.4–.21 51.51N 16.12E 2 3.0L
WAR V 03 22 57 54.8 51.49N 16.10E 1 2.3W
PRU V 03 22 57 55.0 51.47N 16.09E 0 2.3W
VIE V 03 22 57 56.0–.64 51.33N 16.17E 0 2.4L,2.1b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=3.0km az=22.9.
IPEC Event type ki. Error ellipse: s-maj=1.5km s-min=0.7km az=30.0.
CSEM Event type ki. Error ellipse: s-maj=3.8km s-min=3.5km az=57.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=6.3km s-min=2.1km az=15.0. Suspected Mining induced.

(383) Northwestern Balkan Peninsula

CSEM V 04 05 57 50.8 46.39N 15.07E 0
LJU V 04 05 57 50.8 46.39N 15.07E 0 0.4L **¶601124423**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(366) Turkey

ISC V 04 14 38 29.5–.99 37.27N–.03 37.18E–.03 0 29 0-3
ISK V 04 14 38 28.8 37.26N 37.12E 11 2.9 **¶16853214**
CSEM V 04 14 38 28.7–.26 37.27N 37.11E 1 2.9
ISCJB V 04 14 38 29.1–.58 37.25N–.03 37.22E–.04 0 2.9
DDA V 04 14 38 30.9 37.17N 37.08E 7 2.7
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=7.4km s-min=5.5km az=88.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=4.9km az=170.3.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC V 04 15 48 16.3–.93 40.58N–.08 41.37E–.06 0 31 0-3
CSEM V 04 15 48 15.9–.31 40.47N 41.45E 2 2.5 **¶16853216**
ISCJB V 04 15 48 17.9–.51 40.75N–.08 41.20E–.06 0 2.5
DDA V 04 15 48 17.8 40.82N 41.15E 14 2.5
ISK V 04 15 48 22.3 39.81N 40.61E 14 2.5
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=10.8km s-min=4.4km az=133.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=12.5km s-min=3.1km az=150.0.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC V 04 15 48 30.8–.85 38.29N–.03 38.27E–.03 0 32 0-2
CSEM V 04 15 48 30.9–.38 38.18N 38.12E 1 2.5 **¶16853217**
ISK V 04 15 48 31.0 38.23N 38.14E 9 2.7
ISCJB V 04 15 48 32.6–.49 38.32N–.03 38.17E–.04 0 2.7
DDA V 04 15 48 32.2 38.33N 38.17E 8 2.5
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=9.3km s-min=8.2km az=156.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.3km s-min=4.2km az=0.3.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC V 04 16 53 37.3–.60 51.57N–.03 16.13E–.02 0 224 1-40
ISCJB V 04 16 53 35.6–.28 51.54N–.02 16.09E–.02 0 3.2b **¶16497694**
LDG V 04 16 53 39.1–.12 51.50N 16.08E 1 3.5L
IDC V 04 16 53 39.6–.65 51.54N 15.98E 0 3.5,3.5b
CSEM V 04 16 53 39.2–.17 51.49N 16.14E 2 3.8L,3.5b
BGR V 04 16 53 40.9–.53 51.47N 16.11E 1 3.4L,3.5b
PRU V 04 16 53 40.8 51.44N 16.09E 0 3.4L,3.5b
WAR V 04 16 53 40.4 51.48N 16.11E 1 3.1W,3.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.3km s-min=2.2km az=17.0.
LDG Event type sr. Error ellipse: s-maj=3.0km s-min=1.8km az=2.0. Suspected Mining induced.
IDC Error ellipse: s-maj=12.7km s-min=6.3km az=107.0.
CSEM Event type ki. Error ellipse: s-maj=3.3km s-min=2.7km az=16.0.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=3.3km az=18.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 05 20 21 11.1–2.1 67.56N–.05 33.4E–.10 0 22 1-12
HEL V 05 20 21 09.1–.60 67.61N 34.01E 0 2.1L **¶17202877**
IDC V 05 20 21 13.2–2.6 67.70N 33.34E 0 3.2,3.1
ISC Event type kh.
HEL Event type kh. Error ellipse: s-maj=2.3km s-min=10.1km az=-1.0. Explosion.
IDC Error ellipse: s-maj=31.4km s-min=10.2km az=70.0.

(547) Czech and Slovak Republics

PRU V 05 22 57 57.3 49.79N 18.61E 0
¶16501726
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 06 09 00 16.3–1.0 64.74N–.03 31.31E–.06 0 25 1-10
IDC V 06 09 00 17.8–3.3 64.63N 31.64E 0 2.8,2.7 **¶17202910**
CSEM V 06 09 00 19.0 64.69N 30.86E 0 1.8L,2.7
KOLA V 06 09 00 19.8 64.74N 30.22E 0 1.8L,2.7
HEL V 06 09 00 19.0–.30 64.69N 30.86E 0 1.8L,2.7
ISC Event type km.

IDC Error ellipse: s-maj=49.4km s-min=12.4km az=98.0.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
KOLA Event type km.
HEL Event type kh. Error ellipse: s-maj=1.5km s-min=2.9km az=-1.0. Explosion.

(366) Turkey

ISC	**V**	**06 11 20 44.3–.94**	**40.93N–.03**	**40.30E–.02**	**0**		**43**	**0-2**
ISCJB	V	06 11 20 43.7–.53	40.94N–.04	40.28E–.03	0			**¶16853273**
CSEM	V	06 11 20 44.0–.36	40.93N	40.30E	2	3.0		
ISK	V	06 11 20 45.8	40.80N	40.09E	23	3.0		
DDA	V	06 11 21 38.1	40.94N	40.30E	8	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=3.4km az=176.2.
CSEM Event type sm. Error ellipse: s-maj=7.9km s-min=4.9km az=14.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(383) Northwestern Balkan Peninsula

CSEM	**V**	**06 16 40 12.0–99**	**46.39N**	**15.07E**	**0**			
LJU	V	06 16 40 12.0	46.39N	15.07E	0	0.2L		**¶601124461**

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(460) Wyoming

ISC	**V**	**06 19 04 45.1–.90**	**43.56N–.05**	**105.22W–.05**	**0**		**26**	**1-20**
IDC	V	06 19 04 41.9–2.9	42.98N	105.04W	0	3.5,3.4L		**¶17202945**
ISCJB	V	06 19 04 44.1–.53	43.61N–.05	105.10W–.06	0	3.5,3.4L		
NEIC	V	06 19 04 46.1–.49	43.55N	105.16W	0	3.3L,3.4L		

ISC Event type sm.
IDC Error ellipse: s-maj=51.8km s-min=9.5km az=156.0.
ISCJB Event type fm. Error ellipse: s-maj=7.2km s-min=5.9km az=41.0.
NEIC Event type fm. Error ellipse: s-maj=7.5km s-min=6.1km az=168.0. 84 km [52 miles] WSW of Newcastle. Suspected Mining explosion.

(460) Wyoming

ISC	**V**	**06 19 23 04.5–.96**	**43.35N–.05**	**105.23W–.06**	**0**		**20**	**1-20**
IDC	V	06 19 23 04.4–1.8	43.23N	105.34W	0	3.4,3.1		**¶17202948**
ISCJB	V	06 19 23 05.7–.66	43.54N–.05	105.27W–.08	0	3.4,3.1		
NEIC	V	06 19 23 06.7–.88	43.47N	105.26W	0	3.0L,3.1		

ISC Event type sm.
IDC Error ellipse: s-maj=38.3km s-min=9.4km az=152.0.
ISCJB Event type fm. Error ellipse: s-maj=8.7km s-min=7.2km az=22.1.
NEIC Event type fm. Error ellipse: s-maj=11.8km s-min=10.4km az=126.0. 80 km [50 miles] N of Douglas. Suspected Mining explosion.

(548) Poland

ISC	**V**	**06 22 06 42.3–.87**	**51.55N–.03**	**16.10E–.02**	**0**		**84**	**1-5**
ISCJB	V	06 22 06 41.7–.54	51.46N–.03	16.14E–.03	0			**¶16501746**
IPEC	V	06 22 06 42.2–.36	51.56N	16.18E	0–1	2.3L		
CSEM	V	06 22 06 43.9–.45	51.45N	16.17E	2	3.3L		
WAR	V	06 22 06 43.5	51.52N	16.11E	1	2.6W		
VIE	V	06 22 06 47.1–.86	51.22N	16.14E	0	2.8L,2.0b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.1km s-min=2.5km az=16.7.
IPEC Event type ki. Error ellipse: s-maj=3.8km s-min=1.8km az=60.0.
CSEM Event type ki. Error ellipse: s-maj=7.0km s-min=5.4km az=158.0.
VIE Event type sr. Error ellipse: s-maj=8.6km s-min=5.5km az=118.0. Suspected Mining induced.

(548) Poland

ISC	**V**	**07 02 13 03.4–.62**	**51.57N–.03**	**16.16E–.02**	**0**		**167**	**1-60**
ISCJB	V	07 02 13 02.1–.36	51.55N–.02	16.19E–.02	0	2.9b,2.5s		**¶16501756**
CSEM	V	07 02 13 04.3–.23	51.53N	16.13E	2	3.0L,2.5s		
IDC	V	07 02 13 05.2–.69	51.55N	15.95E	0	3.3,3.2		
WAR	V	07 02 13 05.5	51.53N	16.16E	1	2.7W,3.2		
BGR	V	07 02 13 05.2–.37	51.52N	16.17E	1	3.0L,3.2		
VIE	V	07 02 13 07.1–.96	51.34N	16.12E	0	2.9L,2.5b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.0km s-min=1.9km az=16.3.
CSEM Event type ki. Error ellipse: s-maj=4.7km s-min=2.6km az=18.0.
IDC Error ellipse: s-maj=15.7km s-min=8.1km az=109.0.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=2.2km az=15.0.
VIE Event type sr. Error ellipse: s-maj=7.0km s-min=5.7km az=64.0. Suspected Mining induced.

(366) Turkey

ISC	**V**	**07 06 16 32.3–.85**	**40.20N–.02**	**27.36E–.02**	**0**		**60**	**0-2**
ISCJB	V	07 06 16 32.9–.36	40.17N–.02	27.36E–.03	0			**¶16853305**
ISK	V	07 06 16 32.8	40.18N	27.37E	12	2.7		
CSEM	V	07 06 16 33.1–.18	40.19N	27.38E	1	2.7		
DDA	V	07 06 16 33.7	40.18N	27.38E	7	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.7km s-min=2.9km az=35.5.
CSEM Event type sm. Error ellipse: s-maj=4.7km s-min=3.3km az=39.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 08 31 29.2–.79**	**39.12N–.02**	**27.59E–.03**	**0**		**48**	**0-2**
ISCJB	V	07 08 31 29.5–.45	39.08N–.03	27.55E–.04	0			**¶16853313**
CSEM	V	07 08 31 29.7–.22	39.09N	27.55E	1	2.7		
DDA	V	07 08 31 29.8	39.12N	27.57E	7	2.6		
ISK	V	07 08 31 30.0	39.04N	27.61E	13	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.7km az=177.4.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=4.3km az=67.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 08 33 49.6–.93**	**39.05N–.02**	**28.11E–.03**	**0**		**36**	**0-1**
ISCJB	V	07 08 33 50.0–.48	39.05N–.03	28.03E–.04	0			**¶16853314**
ISK	V	07 08 33 49.4	39.06N	28.06E	13	2.5		
CSEM	V	07 08 33 50.1–.28	39.05N	28.03E	1	2.5		
DDA	V	07 08 33 50.5	39.03N	28.05E	7	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.2km s-min=3.7km az=10.6.
CSEM Event type sm. Error ellipse: s-maj=6.3km s-min=5.3km az=108.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(369) Dodecanese Islands

ISC	**V**	**07 08 55 18.6–1.2**	**36.97N–.06**	**27.98E–.05**	**0**		**16**	**0-1**
ISK	V	07 08 55 19.4	37.05N	28.21E	23	2.6		**¶16853315**
CSEM	V	07 08 55 20.4–.67	37.06N	28.12E	1	2.6		
ISCJB	V	07 08 55 21.5–.90	37.15N–.06	28.07E–.07	0	2.6		
DDA	V	07 08 55 22.5	37.23N	28.14E	7	2.3		

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=16.3km s-min=11.6km az=22.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=10.3km s-min=4.7km az=40.0.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 09 26 28.6–.94**	**36.97N–.04**	**34.55E–.04**	**0**		**22**	**0-1**
DDA	V	07 09 26 26.6	36.79N	34.56E	7	2.5		**¶16853316**
ISCJB	V	07 09 26 28.6–.78	36.88N–.05	34.60E–.05	0	2.5		
CSEM	V	07 09 26 28.7–.48	36.94N	34.59E	1	2.2		
ISK	V	07 09 26 28.1	36.99N	34.54E	5	2.2		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.0km s-min=5.0km az=155.6.
CSEM Event type sm. Error ellipse: s-maj=13.8km s-min=9.7km az=127.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 10 15 01.1–.82**	**37.99N–.03**	**30.97E–.02**	**0**		**42**	**0-2**
ISCJB	V	07 10 15 01.0–.42	37.95N–.03	31.00E–.03	0			**¶16853318**
DDA	V	07 10 15 00.8	37.94N	30.98E	7	2.4		
CSEM	V	07 10 15 01.0–.18	37.96N	30.99E	1	2.7		
ISK	V	07 10 15 01.2	37.92N	30.96E	8	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.6km s-min=3.1km az=158.5.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=3.2km az=147.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 11 35 13.2–.79**	**40.56N–.03**	**37.05E–.02**	**0**		**55**	**0-2**
DDA	V	07 11 35 12.8	40.56N	37.03E	7	2.8		**¶16853322**
ISCJB	V	07 11 35 13.1–.40	40.57N–.03	37.06E–.03	0	2.8		
ISK	V	07 11 35 13.6	40.52N	37.04E	13	2.8		
CSEM	V	07 11 35 13.2–.14	40.55N	37.04E	1	2.8		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=2.9km az=2.4.
CSEM Event type sm. Error ellipse: s-maj=3.5km s-min=2.4km az=176.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 12 55 42.1–.88**	**37.25N–.03**	**28.28E–.03**	**0**		**28**	**0-1**
ISCJB	V	07 12 55 41.8–.57	37.23N–.03	28.26E–.05	0			**¶16853326**
DDA	V	07 12 55 41.5	37.24N	28.24E	7	2.8		
CSEM	V	07 12 55 41.8–.28	37.22N	28.29E	2	2.5		
ISK	V	07 12 55 41.8	37.12N	28.26E	13	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.7km s-min=4.3km az=174.3.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.6km s-min=5.4km az=97.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 13 04 34.7–.93**	**37.27N–.03**	**28.32E–.04**	**0**		**25**	**0-1**
CSEM	V	07 13 04 34.9–.28	37.26N	28.33E	1	2.7		**¶16853327**
ISK	V	07 13 04 34.0	37.25N	28.36E	6	2.7		
ISCJB	V	07 13 04 35.4–.58	37.26N–.03	28.28E–.05	0	2.7		
DDA	V	07 13 04 35.6	37.30N	28.29E	7	2.4		

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=6.2km s-min=4.5km az=114.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=4.2km az=171.1.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 13 09 02.2–.86**	**38.86N–.02**	**27.81E–.03**	**0**		**53**	**0-2**
ISCJB	V	07 13 09 02.0–.36	38.85N–.02	27.83E–.03	0			**¶16853328**
ISK	V	07 13 09 01.0	38.82N	27.82E	5	2.7		
DDA	V	07 13 09 02.0	38.86N	27.85E	5	2.5		
CSEM	V	07 13 09 02.1–.12	38.84N	27.83E	2	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.8km s-min=2.9km az=9.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=3.1km s-min=2.5km az=102.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 13 46 02.0–.82**	**39.89N–.03**	**35.33E–.03**	**0**		**36**	**0-2**
ISCJB	V	07 13 46 02.9–.48	39.92N–.03	35.31E–.04	0			**¶16853329**
ISK	V	07 13 46 02.4	39.94N	35.30E	9	2.6		
CSEM	V	07 13 46 02.6–.25	39.92N	35.32E	1	2.6		
DDA	V	07 13 46 03.3	39.93N	35.28E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.6km s-min=3.6km az=155.4.
CSEM Event type sm. Error ellipse: s-maj=6.5km s-min=5.0km az=58.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 14 49 49.1–.88**	**37.26N–.03**	**28.11E–.03**	**0**		**33**	**0-2**
ISK	V	07 14 49 49.0	37.25N	28.19E	5	2.5		**¶16853334**
ISCJB	V	07 14 49 50.2–.49	37.23N–.03	28.19E–.03	0	2.5		
DDA	V	07 14 49 50.1	37.25N	28.14E	7	2.8		
CSEM	V	07 14 49 50.4–.26	37.24N	28.19E	2	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.5km az=17.3.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.9km s-min=4.7km az=8.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**07 15 15 22.4–.84**	**40.31N–.02**	**27.88E–.02**	**0**		**52**	**0-2**
ISCJB	V	07 15 15 22.6–.37	40.34N–.03	27.87E–.03	0			**¶16853336**
DDA	V	07 15 15 22.9	40.34N	27.87E	7	2.6		
CSEM	V	07 15 15 22.6–.15	40.34N	27.88E	1	2.7		
ISK	V	07 15 15 22.2	40.32N	27.85E	5	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.3km s-min=2.9km az=29.6.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type ki. Error ellipse: s-maj=4.2km s-min=2.9km az=23.0.

(548) Poland

ISC	**V**	**07 16 07 40.9–.48**	**51.55N–.03**	**16.09E–.02**	**0**	**3.7b**	**299**	**1-125**
ISCJB	V	07 16 07 39.4–.21	51.51N–.01	16.05E–.02	0	3.6b,3.4s		**¶16501764**
CSEM	V	07 16 07 41.5–.15	51.51N	16.03E	1	3.8L,3.3s		
LDG	V	07 16 07 41.6–.08	51.51N	16.14E	1	3.9L,3.3s		
IDC	V	07 16 07 42.8–.50	51.50N	16.03E	0	3.7,3.7b		
PRU	V	07 16 07 43.3	51.48N	16.08E	0	3.7,3.7b		
BGR	V	07 16 07 43.4–.36	51.48N	16.10E	1	3.5L,3.7b		
WAR	V	07 16 07 43.4	51.49N	16.09E	1	3.2W,3.7b		
VIE	V	07 16 07 44.9–.87	51.30N	16.03E	0	3.3s,3.1L		
UPP	V	07 16 07 48.0–3.2	51.88N	15.62E	0	2.7L,3.1L		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.9km s-min=1.7km az=17.5.
CSEM Event type ki. Error ellipse: s-maj=3.4km s-min=2.9km az=38.0.
LDG Event type sr. Error ellipse: s-maj=2.2km s-min=1.1km az=5.0. Suspected Mining induced.
IDC Error ellipse: s-maj=9.9km s-min=5.6km az=104.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=15.0.
VIE Event type sr. Error ellipse: s-maj=7.6km s-min=5.1km az=53.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC	**V**	**07 16 10 04.5–.67**	**51.63N–.03**	**16.13E–.02**	**0**		**160**	**1-60**
ISCJB	V	07 16 10 04.2–.42	51.50N–.02	16.09E–.02	0	3.5b,2.8s		**¶16501765**
CSEM	V	07 16 10 05.9–.24	51.52N	16.10E	2	3.5L,2.8s		
IDC	V	07 16 10 06.8–.90	51.54N	15.96E	0	3.7,3.5		
WAR	V	07 16 10 06.5	51.55N	16.11E	1	3.0W,3.5		
BGR	V	07 16 10 06.7–.38	51.52N	16.11E	1	3.5L,3.5		
PRU	V	07 16 10 07.3	51.49N	16.09E	0	3.5L,3.5		
VIE	V	07 16 10 09.5–1.1	51.28N	16.11E	0	3.3L,3.1b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.4km s-min=2.0km az=12.2.
CSEM Event type ki. Error ellipse: s-maj=5.0km s-min=2.2km az=13.0.
IDC Error ellipse: s-maj=14.6km s-min=8.7km az=108.0.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=16.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=8.1km s-min=7.2km az=78.0. Suspected Mining induced.

(460) Wyoming

ISC	**V**	**07 20 06 11.4–.69**	**43.82N–.03**	**105.20W–.03**	**0**		**86**	**1-61**
ISCJB	V	07 20 06 11.0–.22	43.75N–.02	105.31W–.02	0	4.3b,2.8s		**¶16709116**
IDC	V	07 20 06 10.9–2.2	43.84N	105.54W	0	4.1b,3.8		
NEIC	V	07 20 06 13.3–.94	43.79N	105.24W	13–8	3.4L,3.8		

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=3.5km s-min=2.3km az=167.4.
IDC Error ellipse: s-maj=67.4km s-min=12.0km az=144.0.
NEIC Event type fm. Error ellipse: s-maj=3.6km s-min=2.9km az=47.0. 60 km [37 miles] SSE of Gillette. Suspected Mining explosion.

(536) Sweden

ISC	**V**	**08 01 29 46.2–.71**	**67.16N–.02**	**20.64E–.02**	**0**		**121**	**1-8**
ISCJB	V	08 01 29 45.7–.37	67.17N–.02	20.71E–.07	0			**¶16502613**
UPP	V	08 01 29 46.6–.10	67.18N	20.65E	0	2.3L		
NAO	V	08 01 29 46.9–.80	67.16N	20.81E		2.6L		
CSEM	V	08 01 29 46.8–.17	67.19N	20.72E	2	2.3L		
IDC	V	08 01 29 47.4–.88	67.16N	20.82E	0	3.0,2.9		
HEL	V	08 01 29 47.3–.00	67.18N	20.65E	1	2.3L,2.3L		

BER V 08 01 29 48.4–3.0 67.19N 20.47E 0 2.3L,2.3L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=2.8km az=15.4.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.4km s-min=3.2km az=102.0. Mining explosion.
IDC Error ellipse: s-maj=13.9km s-min=7.3km az=117.0.
HEL Event type sh. Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0. Suspected explosion.
BER Event type sh. Error ellipse: s-maj=4.2km s-min=17.1km az=-1.0. Suspected explosion.

(548) Poland

ISC V 08 06 40 21.2–.67 51.52N–.03 16.21E–.02 0 172 1-19
ISCJB V 08 06 40 19.9–.28 51.47N–.01 16.21E–.02 0 **¶16501792**
CSEM V 08 06 40 21.9–.11 51.47N 16.19E 1 3.0L
WAR V 08 06 40 21.3 51.44N 16.91E 1 2.8W
IPEC V 08 06 40 22.3–.29 51.47N 16.30E 0 2.4L
UPP V 08 06 40 23.3–3.3 51.47N 15.71E 0 1.9L
PRU V 08 06 40 23.7 51.42N 16.17E 0 1.9L
BGR V 08 06 40 23.2–.37 51.44N 16.21E 1 3.0L
IDC V 08 06 40 23.4–.65 51.44N 16.16E 0 3.3,3.2
VIE V 08 06 40 25.0–.63 51.27N 16.26E 0 3.0L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.2km s-min=1.9km az=27.6.
CSEM Event type ki. Error ellipse: s-maj=2.4km s-min=2.0km az=44.0.
IPEC Event type ki. Error ellipse: s-maj=3.2km s-min=1.7km az=67.0.
UPP Event type sh. Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0. Suspected explosion.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=13.0.
IDC Error ellipse: s-maj=14.8km s-min=5.5km az=96.0.
VIE Event type sr. Error ellipse: s-maj=5.6km s-min=4.3km az=85.0. Suspected Mining induced.

(383) Northwestern Balkan Peninsula

CSEM V 08 12 47 14.8–99 46.39N 15.07E 0
LJU V 08 12 47 14.8 46.39N 15.07E 0 **¶601124471**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(536) Sweden

ISC V 09 05 06 19.1–.76 67.13N–.03 20.71E–.04 0 57 1-8
ISCJB V 09 05 06 16.4–.54 67.12N–.03 20.53E–.10 0 **¶16502615**
NAO V 09 05 06 20.3–1.1 67.14N 21.12E 2.2L
CSEM V 09 05 06 20.6–.24 67.16N 20.93E 2 2.4L
HEL V 09 05 06 21.1–.10 67.19N 20.75E 0 2.4L
IDC V 09 05 06 21.2–1.1 67.23N 21.56E 0 2.8,2.8
BER V 09 05 06 22.1–4.3 67.17N 20.75E 0 2.2L,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.6km s-min=3.6km az=10.0.
CSEM Event type km. Error ellipse: s-maj=6.3km s-min=4.0km az=99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.2km s-min=0.5km az=-1.0. Explosion.
IDC Error ellipse: s-maj=18.1km s-min=7.7km az=105.0.
BER Event type sh. Error ellipse: s-maj=6.9km s-min=21.8km az=-1.0. Suspected explosion.

(366) Turkey

ISC V 09 07 27 56.8–.86 40.57N–.04 39.06E–.02 0 32 0-2
ISCJB V 09 07 27 58.5–.52 40.57N–.04 39.02E–.04 0 **¶16853414**
ISK V 09 07 27 58.3 40.59N 39.06E 19 2.9
CSEM V 09 07 27 58.8–.21 40.55N 39.02E 2 2.9
DDA V 09 07 27 58.7 40.54N 39.00E 7 2.9
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.1km s-min=3.8km az=9.2.
CSEM Event type sm. Error ellipse: s-maj=5.7km s-min=3.8km az=8.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC V 09 08 47 36.8–.82 50.10N–.04 18.41E–.02 0 49 0-3
ISCJB V 09 08 47 36.2–.55 50.10N–.04 18.35E–.03 0 **¶16506887**
CSEM V 09 08 47 36.8–.24 50.09N 18.38E 1 2.7L
IPEC V 09 08 47 37.0–.17 50.07N 18.45E 0 1.7L
PRU V 09 08 47 38.4 50.06N 18.34E 0 1.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.4km s-min=2.6km az=7.4.
CSEM Event type ki. Error ellipse: s-maj=5.5km s-min=2.6km az=7.0.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
PRU Event type ki.

(366) Turkey

ISC V 09 08 47 48.6–1.0 37.25N–.04 28.12E–.04 0 24 0-2
ISK V 09 08 47 48.6 37.23N 28.11E 5 2.7 **¶16853415**
ISCJB V 09 08 47 49.6–.58 37.23N–.04 28.18E–.04 0 2.7
DDA V 09 08 47 49.6 37.23N 28.14E 7 2.5
CSEM V 09 08 47 50.0–.26 37.24N 28.15E 2 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.6km s-min=3.9km az=31.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.5km s-min=4.7km az=35.0. Suspected Mining explosion.

(374) Jordan-Syria region

ISC V 09 09 07 02.3–1.2 36.75N–.07 36.94E–.03 0 25 0-2
ISCJB V 09 09 07 02.4–1.0 36.62N–.06 36.90E–.05 0 **¶16853416**
CSEM V 09 09 07 02.1–.90 36.54N 36.94E 1 2.7
ISK V 09 09 07 04.8 36.74N 36.94E 23 3.0
DDA V 09 09 07 13.2 37.16N 37.43E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.7km s-min=5.8km az=171.6.
CSEM Event type sm. Error ellipse: s-maj=18.9km s-min=11.7km az=155.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC V 09 09 38 29.6–.76 50.01N–.03 18.42E–.02 0 69 0-3
ISCJB V 09 09 38 28.9–.43 50.07N–.03 18.36E–.03 0 **¶16506889**
IPEC V 09 09 38 29.6–.17 50.05N 18.49E 0 1.8L
CSEM V 09 09 38 29.7–.27 50.06N 18.38E 1 2.7L
PRU V 09 09 38 30.5 50.02N 18.47E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.4km az=12.8.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.6km az=12.0.
PRU Event type ki.

(374) Jordan-Syria region

ISC V 09 11 40 57.8–.87 36.38N–.03 37.05E–.04 0 27 0-1
DDA V 09 11 40 56.8 36.18N 37.16E 5 2.9 **¶601584312**
NSSC V 09 11 40 58.8–1.3 36.66N 36.75E 58–10 1.9L
CSEM V 09 11 40 58.1–.44 36.31N 37.12E 1 1.9L
ISCJB V 09 11 40 59.1–.67 36.31N–.03 37.02E–.05 0 1.9L
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC V 09 14 24 05.5–.79 39.89N–.02 33.09E–.02 0 41 0-2
DDA V 09 14 24 04.8 39.91N 33.04E 7 2.6 **¶16853426**
ISCJB V 09 14 24 05.1–.45 39.90N–.03 33.06E–.04 0 2.6
ISK V 09 14 24 05.4 39.86N 33.04E 7 2.9
CSEM V 09 14 24 05.0–.19 39.89N 33.06E 2 2.9
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=3.6km az=31.1.
CSEM Event type sm. Error ellipse: s-maj=4.2km s-min=4.1km az=126.0. Suspected Mining explosion.

(366) Turkey

ISC V 09 14 26 29.0–.81 39.91N–.02 33.06E–.02 0 40 0-2
ISK V 09 14 26 27.8 39.87N 33.05E 5 3.1 **¶16853427**
ISCJB V 09 14 26 28.7–.44 39.90N–.02 33.07E–.04 0 3.1
DDA V 09 14 26 28.5 39.91N 33.09E 7 2.6
CSEM V 09 14 26 28.5–.20 39.91N 33.05E 2 3.1
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.4km s-min=3.4km az=18.1.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=3.7km az=107.0. Suspected Mining explosion.

(548) Poland

ISC V 09 15 30 41.5–.69 51.52N–.03 16.18E–.02 0 181 1-60
ISCJB V 09 15 30 40.5–.39 51.46N–.02 16.16E–.02 0 3.6s,3.5b **¶16504092**
CSEM V 09 15 30 42.4–.18 51.45N 16.15E 2 3.7L,3.5b
IDC V 09 15 30 42.9–.74 51.45N 16.17E 0 3.6,3.6s
WAR V 09 15 30 43.1 51.48N 16.16E 1 2.8W,3.6s
BGR V 09 15 30 43.4–.35 51.45N 16.16E 1 3.1L,3.6s
VIE V 09 15 30 46.0–.80 51.20N 16.25E 0 3.0L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.2km s-min=2.0km az=11.1.
CSEM Event type ki. Error ellipse: s-maj=3.4km s-min=2.1km az=17.0.
IDC Error ellipse: s-maj=13.8km s-min=7.8km az=104.0.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=2.2km az=17.0.
VIE Event type sr. Error ellipse: s-maj=5.8km s-min=5.1km az=42.0. Suspected Mining induced.

(548) Poland

ISC V 09 17 19 29.8–.69 51.49N–.02 16.20E–.02 0 195 1-11
ISCJB V 09 17 19 28.5–.25 51.50N–.02 16.19E–.03 0 **¶16504093**
CSEM V 09 17 19 30.5–.10 51.47N 16.21E 2 3.1L
WAR V 09 17 19 31.8 51.44N 16.20E 1 3.0W
IDC V 09 17 19 31.5–.76 51.44N 16.16E 0 3.2,3.1
BGR V 09 17 19 32.5–.36 51.39N 16.17E 1 3.1L,3.1
VIE V 09 17 19 34.1–.83 51.23N 16.13E 0 3.0L,2.5b
UPP V 09 17 19 36.3–2.9 51.81N 15.73E 0 2.3L,2.5b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.3km s-min=2.2km az=165.7.
CSEM Event type ki. Error ellipse: s-maj=2.3km s-min=1.9km az=92.0.
IDC Error ellipse: s-maj=17.5km s-min=6.9km az=101.0.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=15.0.
VIE Event type sr. Error ellipse: s-maj=5.2km s-min=4.8km az=43.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC V 09 20 20 25.4–.76 50.16N–.03 18.64E–.01 0 74 0-3
ISCJB V 09 20 20 24.8–.43 50.22N–.03 18.60E–.02 0 **¶16506896**
IPEC V 09 20 20 25.8–.21 50.21N 18.70E 1–2 1.7L
CSEM V 09 20 20 25.8–.25 50.24N 18.62E 2 2.5L
PRU V 09 20 20 26.7 50.22N 18.60E 0 2.5L
WAR V 09 20 20 26.1 50.21N 18.70E 1 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.2km az=6.0.
IPEC Event type ki. Error ellipse: s-maj=2.4km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=3.0km az=4.0.
PRU Event type ki.

(548) Poland

ISC V 09 22 51 55.5–1.1 51.45N–.05 16.15E–.02 0 66 1-4
ISCJB V 09 22 51 54.2–.70 51.43N–.04 16.15E–.03 0 **¶16506899**
CSEM V 09 22 51 55.2–.37 51.44N 16.16E 2 3.0L
WAR V 09 22 51 55.6 51.46N 16.16E 1 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.9km az=9.8.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=3.5km az=179.0.

(724) Baltic States-Belarus-Northwestern Russia

HEL V 10 08 49 52.0–.30 59.30N 27.31E 0 1.7L
CSEM V 10 08 49 51.4–.40 59.32N 27.17E 2 1.7L **¶601480164**
HEL Event type kh. Error ellipse: s-maj=1.5km s-min=4.6km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=8.7km s-min=4.6km az=88.0. Mining explosion.

(546) Austria

VIE V 10 15 22 04.3–.73 48.33N 15.68E 0 1.4L,1.1b
CSEM V 10 15 22 04.0–.28 48.34N 15.73E 1 1.4L,1.1b **¶601242656**
VIE Event type sm. Error ellipse: s-maj=4.8km s-min=4.1km az=31.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.2km s-min=4.7km az=113.0. Suspected Mining explosion.

(548) Poland

ISC V 10 20 47 46.5–1.3 51.52N–.05 16.19E–.03 0 60 1-4
ISCJB V 10 20 47 46.0–.83 51.43N–.04 16.17E–.04 0 **¶16506915**
CSEM V 10 20 47 47.6–.62 51.44N 16.16E 2 2.8L
WAR V 10 20 47 47.6 51.48N 16.17E 1 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.6km s-min=3.2km az=23.7.
CSEM Event type ki. Error ellipse: s-maj=9.7km s-min=5.6km az=17.0.

(383) Northwestern Balkan Peninsula

CSEM V 11 02 08 29.5–99 46.39N 15.07E 0
LJU V 11 02 08 29.5 46.39N 15.07E 0 1.0L **¶601124539**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(548) Poland

PRU V 11 03 30 21.3 50.26N 18.78E 0
CSEM V 11 03 30 20.6–.49 50.28N 18.76E 1 **¶16506924**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=13.4km s-min=5.9km az=5.0.

(548) Poland

ISC V 11 04 35 44.9–.82 50.23N–.04 18.87E–.02 0 58 0-4
ISCJB V 11 04 35 43.2–.65 50.36N–.04 18.87E–.03 0 **¶16506931**
CSEM V 11 04 35 43.6–.48 50.41N 18.91E 2 2.7L
PRU V 11 04 35 44.5 50.37N 18.91E 0 2.7L
WAR V 11 04 35 45.1 50.35N 18.98E 1 2.6W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.7km s-min=2.5km az=16.1.
CSEM Event type ki. Error ellipse: s-maj=11.0km s-min=3.9km az=12.0.
PRU Event type ki.

(548) Poland

PRU V 11 06 00 05.3 50.09N 18.44E 0
CSEM V 11 06 00 04.1–.88 50.13N 18.48E 1 **¶16506933**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=14.3km s-min=7.2km az=46.0.

(329) Eastern Kazakhstan

NNC V 11 07 28 47.4–.38 50.03N 78.67E 0 3.5b,3.2 ¶16930291
NNC Event type sm. Error ellipse: s-maj=4.8km s-min=2.1km az=84.0. Suspected Mining explosion.

(366) Turkey

ISC V 11 07 42 02.9–.79 39.55N–.02 31.76E–.02 0 43 0-2
ISK V 11 07 42 01.4 39.55N 31.82E 8 2.8 **¶16853475**
ISCJB V 11 07 42 02.2–.57 39.54N–.03 31.83E–.04 0 2.8
CSEM V 11 07 42 02.6–.31 39.54N 31.77E 1 2.6
DDA V 11 07 42 03.2 39.52N 31.76E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=4.1km az=173.2.
CSEM Event type sm. Error ellipse: s-maj=6.4km s-min=6.0km az=101.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC V 11 07 57 45.1–.79 37.25N–.03 28.12E–.03 0 41 0-2
ISCJB V 11 07 57 45.6–.42 37.22N–.03 28.17E–.03 0 **¶16853476**
CSEM V 11 07 57 45.8–.18 37.23N 28.16E 1 2.6
ISK V 11 07 57 45.2 37.24N 28.18E 7 2.6
DDA V 11 07 58 40.3 37.25N 28.13E 17 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.0km az=28.4.
CSEM Event type sm. Error ellipse: s-maj=4.2km s-min=3.2km az=20.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC V 11 14 24 32.8–1.3 40.85N–.04 42.95E–.02 0 34 1-1
ISCJB V 11 14 24 34.2–.66 40.84N–.04 42.92E–.03 0 **¶601269875**
TIF V 11 14 24 34.4 40.82N 42.95E 34–2
CSEM V 11 14 24 34.4–.21 40.84N 42.93E 1 2.9
DDA V 11 14 24 34.5 40.85N 42.94E 7 2.9
ISC Event type sm.

ISCJB Event type sm. Error ellipse: s-maj=6.4km s-min=3.1km az=178.0.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=2.4km az=178.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(536) Sweden

UPP	**V**	**11 14 27 38.8**	**58.93N**	**11.20E**	**0**	**0.8L**	
CSEM	V	11 14 27 38.8	58.93N	11.20E	0	0.8L	¶602385512

UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(547) Czech and Slovak Republics

IPEC	**V**	**11 15 47 14.2–.18**	**49.79N**	**18.51E**	**0**	**1.3L**	
CSEM	V	11 15 47 15.4–.27	49.73N	18.37E	1	1.9L	¶16506943

IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=7.0km s-min=3.3km az=28.0.

(383) Northwestern Balkan Peninsula

CSEM	**V**	**11 17 44 24.5–.99**	**46.39N**	**15.07E**	**0**		
LJU	V	11 17 44 24.5	46.39N	15.07E	0	1.1L	¶601124544

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(460) Wyoming

ISC	**V**	**11 20 04 27.7–.93**	**43.84N–.05**	**105.30W–.05**	**0**		**29**	**1-19**	
ISCJB	V	11 20 04 26.7–.49	43.85N–.05	105.27W–.06	0				¶17203429
NEIC	V	11 20 04 27.5–.68	43.74N	105.23W	0	3.2L			
IDC	V	11 20 04 27.8–1.8	43.97N	105.58W	0	3.6,3.3			

ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=7.0km s-min=5.9km az=175.1.
NEIC Event type fm. Error ellipse: s-maj=9.5km s-min=8.3km az=145.0. 65 km [40 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=51.6km s-min=10.1km az=147.0.

(536) Sweden

UPP	**V**	**11 23 23 05.5–.10**	**67.82N**	**20.20E**	**0**	**1.5L**	
CSEM	V	11 23 23 05.5	67.82N	20.20E	0	1.5L	¶602385501
HEL	V	11 23 23 06.0–.00	67.82N	20.22E	0	1.9L,1.5L	

UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0. Explosion.

(548) Poland

PRU	**V**	**11 23 23 43.5**	**50.46N**	**18.88E**	**0**		
							¶16506959

PRU Event type ki.

(548) Poland

ISC	**V**	**12 01 24 45.9–.92**	**50.19N–.06**	**19.21E–.02**	**0**		**41**	**0-4**	
ISCJB	V	12 01 24 44.5–.68	50.24N–.05	19.16E–.03	0				¶16521283
CSEM	V	12 01 24 45.5–.40	50.27N	19.23E	1	2.5L			
PRU	V	12 01 24 46.6	50.25N	19.22E	0	2.5L			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.8km s-min=2.7km az=11.7.
CSEM Event type ki. Error ellipse: s-maj=9.9km s-min=3.6km az=8.0.
PRU Event type ki.

(536) Sweden

ISC	**V**	**12 03 37 01.2–.91**	**56.63N–.02**	**12.25E–.02**	**31–8**		**197**	**0-14**	
PRU	V	12 03 36 59.6	56.53N	11.89E	0				¶16512052
IDC	V	12 03 37 00.9–1.2	56.67N	11.99E	0	3.3,3.1			
CSEM	V	12 03 37 00.9–.15	56.65N	12.20E	10	2.7L,3.1			
UPP	V	12 03 37 01.8–.30	56.64N	12.23E	14–2	2.8L,3.1			
NAO	V	12 03 37 02.7–1.4	56.85N	12.02E		2.5L,3.1			
BER	V	12 03 37 02.6–2.6	56.74N	12.20E	0–7	2.5L,2.3			
HEL	V	12 03 37 02.5–.20	56.67N	12.20E	21–1	2.8L,2.8L			

ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=12.8km az=106.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=16.0.
UPP Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Probable volcanic.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=6.3km s-min=9.5km az=-1.0.
HEL Error ellipse: s-maj=1.2km s-min=1.0km az=-1.0.

(366) Turkey

ISC	**V**	**12 08 26 27.3–.80**	**41.42N–.03**	**35.84E–.02**	**0**		**59**	**0-3**	
DDA	V	12 08 26 27.3	41.36N	35.84E	20	2.6			¶16853504
ISK	V	12 08 26 27.1	41.43N	35.94E	7	2.9			
ISCJB	V	12 08 26 28.1–.40	41.39N–.03	35.85E–.03	0	2.9			
CSEM	V	12 08 26 28.1–.22	41.37N	35.86E	1	2.6			

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=2.8km az=29.4.
CSEM Event type sm. Error ellipse: s-maj=6.3km s-min=3.7km az=31.0. Suspected Mining explosion.

(366) Turkey

ISC	**V**	**12 10 17 28.8–.88**	**39.67N–.05**	**34.71E–.04**	**0**		**23**	**0-2**	
ISK	V	12 10 17 26.8	39.62N	34.74E	5	2.8			¶16853507
CSEM	V	12 10 17 28.9–.31	39.65N	34.72E	2	2.6			
ISCJB	V	12 10 17 29.1–.63	39.65N–.04	34.70E–.04	0	2.6			
DDA	V	12 10 17 29.1	39.68N	34.67E	7	2.6			

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=8.3km s-min=5.6km az=148.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.3km s-min=4.1km az=152.7.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC	**V**	**12 13 08 39.5–.82**	**50.11N–.04**	**19.03E–.02**	**0**		**52**	**1-4**	
ISCJB	V	12 13 08 38.7–.53	50.17N–.04	19.00E–.03	0				¶16521289
PRU	V	12 13 08 40.9	50.15N	19.02E	0				
WAR	V	12 13 08 40.9	50.10N	19.16E	1	2.5W			
CSEM	V	12 13 08 40.0–.31	50.15N	19.03E	2	2.9L			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.9km s-min=2.5km az=11.7.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=3.3km az=5.0.

(329) Eastern Kazakhstan

ISC	**V**	**12 13 17 39.0–.89**	**49.97N–.05**	**78.80E–.08**	**0**		**13**	**1-6**	
ISCJB	V	12 13 17 38.6–.75	50.02N–.04	78.6E–.10	0				¶17203479
NNC	V	12 13 17 38.8–.98	50.05N	78.86E	0	3.3b,3.1			
IDC	V	12 13 17 41.2–1.1	50.02N	78.77E	0	3.1,3.1			

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=11.0km s-min=5.3km az=160.3.
NNC Event type sm. Error ellipse: s-maj=27.8km s-min=4.5km az=68.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=22.2km s-min=9.1km az=45.0.

(460) Wyoming

ISC	**V**	**12 18 39 09.5–.95**	**43.69N–.05**	**105.29W–.05**	**0**		**27**	**1-20**	
IDC	V	12 18 39 07.0–2.2	43.41N	105.28W	0	3.7,3.5L			¶17203494
ISCJB	V	12 18 39 09.2–.50	43.66N–.05	105.26W–.06	0	3.7,3.5L			
NEIC	V	12 18 39 10.6–.46	43.64N	105.27W	0	3.0L,3.5L			

ISC Event type sm.
IDC Error ellipse: s-maj=48.8km s-min=9.3km az=154.0.
ISCJB Event type fm. Error ellipse: s-maj=6.8km s-min=6.1km az=156.3.
NEIC Event type fm. Error ellipse: s-maj=6.5km s-min=5.7km az=154.0. 75 km [46 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

ISC	**V**	**12 18 40 58.5–.83**	**50.24N–.04**	**18.72E–.02**	**0**		**53**	**0-4**	
ISCJB	V	12 18 40 57.9–.62	50.30N–.04	18.71E–.03	0				¶16521296
CSEM	V	12 18 40 58.5–.31	50.30N	18.75E	2	2.5L			
PRU	V	12 18 40 59.6	50.28N	18.71E	0	2.5L			
WAR	V	12 18 40 59.1	50.26N	18.82E	1	2.3W			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.3km s-min=2.7km az=6.2.
CSEM Event type ki. Error ellipse: s-maj=7.6km s-min=3.1km az=3.0.
PRU Event type ki.

(548) Poland

PRU	**V**	**12 19 15 05.9**	**50.30N**	**18.74E**	**0**				
CSEM	V	12 19 15 04.6–.25	50.30N	18.75E	2				¶16521298

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.6km s-min=2.7km az=12.0.

(548) Poland

ISC	**V**	**12 19 17 01.6–.81**	**50.06N–.04**	**18.39E–.02**	**0**		**52**	**0-3**	
ISCJB	V	12 19 17 00.3–.55	50.12N–.04	18.37E–.03	0				¶16521299
CSEM	V	12 19 17 01.4–.30	50.07N	18.39E	1	2.3L			
WAR	V	12 19 17 01.3	50.06N	18.41E	1	2.1W			
PRU	V	12 19 17 02.7	50.05N	18.34E	0	2.1W			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.5km s-min=2.5km az=10.1.
CSEM Event type ki. Error ellipse: s-maj=7.1km s-min=3.3km az=10.0.
PRU Event type ki.

(547) Czech and Slovak Republics

PRU	**V**	**12 22 34 15.5**	**49.77N**	**18.59E**	**0**		
							¶16521302

PRU Event type ki.

(548) Poland

ISC	**V**	**13 03 59 06.4–.29**	**51.49N–.02**	**16.11E–.02**	**0**	**4.4b,4.4s**	**776**	**1-151**	
ISCJB	V	13 03 59 04.7–.13	51.47N–.01	16.14E–.02	0	4.4b,4.3s			¶16508002
LDG	V	13 03 59 04.9–.09	51.51N	16.25E	1	4.5L,4.3s			
MOS	V	13 03 59 05.3–1.7	51.51N	15.94E	10	4.4b,4.3s			
CSEM	V	13 03 59 06.6–.07	51.47N	16.13E	0	4.5L,4.4b			
IPEC	V	13 03 59 06.0–.30	51.52N	16.31E	0	3.7L,4.4b			
WAR	V	13 03 59 07.8	51.46N	16.16E	1	3.7W,4.4b			
IDC	V	13 03 59 07.3–.38	51.46N	16.00E	0	4.2s,4.2			
STR	V	13 03 59 07.0–.50	51.54N	16.08E	5	4.7L,4.2			
PRU	V	13 03 59 07.3	51.46N	16.19E	0	4.5,4.2			
BGR	V	13 03 59 08.0–.40	51.41N	16.18E	1	4.1L,4.2			
NEIC	V	13 03 59 08.0–.16	51.41N	16.18E	5	4.5b,4.4L			
BNS	V	13 03 59 10.1–.82	51.52N	16.00E	5	3.9L,4.4L			
UPP	V	13 03 59 11.1–2.8	51.76N	15.84E	0	3.4L,4.4L			

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.5km s-min=1.4km az=165.9.
LDG Event type sr. Error ellipse: s-maj=2.4km s-min=1.6km az=175.0. Suspected Mining induced.
MOS Error ellipse: s-maj=4.6km s-min=3.0km az=70.2.
CSEM Event type ki. Error ellipse: s-maj=2.0km s-min=1.8km az=149.0.
IPEC Event type ki. Error ellipse: s-maj=3.2km s-min=1.7km az=67.0.
IDC Error ellipse: s-maj=7.6km s-min=5.6km az=89.0.
STR Event type ke.
PRU Event type ki. Felt In Harrachov.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=3.3km az=17.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.6km az=139.0. Felt at Lubin.
BNS Event type ke.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

ISC	**V**	**13 10 52 08.0–.74**	**49.86N–.03**	**18.45E–.02**	**0**		**66**	**0-4**	
ISCJB	V	13 10 52 06.5–.40	49.89N–.03	18.39E–.03	0				¶16521307
CSEM	V	13 10 52 07.9–.23	49.84N	18.40E	2	3.1L			
IPEC	V	13 10 52 07.7–.18	49.84N	18.52E	0	2.4L			
PRU	V	13 10 52 09.0	49.85N	18.38E	0	2.4L			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.2km az=17.7.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=3.0km az=13.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**V**	**13 11 34 04.5–1.6**	**67.54N–.04**	**34.09E–.08**	**0**		**81**	**0-12**	
HEL	V	13 11 34 03.0–.60	67.89N	34.45E	0	2.7L			¶16527318
KOLA	V	13 11 34 04.3	67.63N	34.27E	0	2.7L			
CSEM	V	13 11 34 06.9–.81	67.64N	33.89E	2	2.5L			
NAO	V	13 11 34 08.7–1.1	67.68N	33.80E		3.0L			
IDC	V	13 11 34 09.6–1.7	67.71N	33.59E	0	3.4,3.4			

ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=2.3km s-min=3.4km az=-1.0. Explosion.
KOLA Event type km.
CSEM Event type km. Error ellipse: s-maj=16.6km s-min=9.3km az=89.0. Mining explosion.
IDC Error ellipse: s-maj=17.7km s-min=9.2km az=88.0.

(548) Poland

ISC	**V**	**13 19 47 25.4–1.3**	**51.59N–.06**	**16.02E–.03**	**0**		**56**	**1-4**	
ISCJB	V	13 19 47 24.5–.88	51.54N–.04	16.02E–.04	0				¶16521316
CSEM	V	13 19 47 25.8–.40	51.56N	16.01E	2	3.0L			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.3km s-min=3.1km az=22.4.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=3.2km az=18.0.

(548) Poland

CSEM	**V**	**14 01 31 37.4–.71**	**50.18N**	**19.09E**	**1**	**1.7L**			
IPEC	V	14 01 31 38.4–.18	50.22N	19.16E	0	1.7L			¶16521320
PRU	V	14 01 31 38.1	50.17N	19.10E	0	1.7L			

CSEM Event type ki. Error ellipse: s-maj=20.0km s-min=8.5km az=5.0.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=169.0.
PRU Event type ki.

(724) Baltic States-Belarus-Northwestern Russia

ISC	**V**	**14 03 55 08.0–1.8**	**67.55N–.04**	**34.31E–.09**	**0**		**53**	**0-12**	
CSEM	V	14 03 55 10.3–.89	67.51N	33.97E	1	2.5L			¶601480371
HEL	V	14 03 55 11.4–.40	67.59N	34.07E	0	2.0L			
NAO	V	14 03 55 13.1–1.3	67.65N	33.80E		2.5L			

ISC Event type km.
CSEM Event type km. Error ellipse: s-maj=16.1km s-min=9.0km az=104.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=2.0km s-min=6.5km az=-1.0. Explosion.

(548) Poland

ISC	**V**	**14 04 12 07.6–.83**	**50.15N–.04**	**19.25E–.02**	**0**		**49**	**0-4**	
ISCJB	V	14 04 12 06.3–.57	50.23N–.04	19.20E–.03	0				¶16521322
CSEM	V	14 04 12 07.3–.36	50.22N	19.22E	2	2.5L			
PRU	V	14 04 12 08.1	50.22N	19.22E	0	2.5L			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.9km s-min=2.4km az=17.6.
CSEM Event type ki. Error ellipse: s-maj=8.9km s-min=3.9km az=15.0.
PRU Event type ki.

(547) Czech and Slovak Republics

ISC	**V**	**14 06 05 32.4–.79**	**49.81N–.04**	**18.47E–.02**	**0**		**50**	**0-3**	
ISCJB	V	14 06 05 31.5–.44	49.84N–.03	18.45E–.03	0				¶16521323
IPEC	V	14 06 05 32.4–.18	49.79N	18.53E	0	1.6L			
CSEM	V	14 06 05 32.4–.24	49.84N	18.45E	1	2.5L			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.8km s-min=2.4km az=11.4.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=3.3km az=10.0.

(547) Czech and Slovak Republics

ISC	**V**	**14 08 18 10.3–.75**	**49.79N–.03**	**18.52E–.02**	**0**		**59**	**0-3**	
ISCJB	V	14 08 18 09.4–.42	49.83N–.03	18.46E–.03	0				¶16521324
CSEM	V	14 08 18 10.2–.25	49.82N	18.48E	2	2.8L			
IPEC	V	14 08 18 10.3–.18	49.81N	18.58E	0	2.1L			
PRU	V	14 08 18 11.2	49.83N	18.47E	0	2.1L			
VIE	V	14 08 18 11.5–1.3	49.83N	18.44E	0	2.7L,2.0b			

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.9km s-min=2.3km az=12.4.
CSEM Event type ki. Error ellipse: s-maj=7.1km s-min=3.3km az=10.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=10.3km s-min=7.1km az=24.0. Suspected Mining induced.

(383) Northwestern Balkan Peninsula

CSEM	**V**	**14 10 17 53.2–.99**	**46.39N**	**15.07E**	**0**				
LJU	V	14 10 17 53.2	46.39N	15.07E	0	1.2L			¶601124573

CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(547) Czech and Slovak Republics

ISC	**V**	**14 19 22 07.1–.69**	**49.86N–.02**	**18.40E–.01**	**0**		**143**	**0-4**	
SIGU	V	14 19 22 05.4–.30	49.91N–.02	18.41E–.02	6–0	2.7b			¶16521337
ISCJB	V	14 19 22 06.1–.26	49.91N–.02	18.37E–.02	0	2.7b			
CSEM	V	14 19 22 06.9–.20	49.87N	18.40E	1	3.2L			
BGR	V	14 19 22 07.5–.75	49.87N	18.43E	1	3.0L			
PRU	V	14 19 22 07.7	49.84N	18.37E	0	3.0L			

IPEC V 14 19 22 07.1–.18 49.84N 18.52E 0 2.6L
VIE V 14 19 22 07.4–.73 49.81N 18.46E 0 3.1L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.3km s-min=1.6km az=12.6.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=2.9km az=20.0.
BGR Event type ki. Error ellipse: s-maj=8.9km s-min=6.7km az=65.0.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
VIE Event type sr. Error ellipse: s-maj=5.4km s-min=4.5km az=45.0. Suspected Mining induced.

(383) Northwestern Balkan Peninsula

CSEM V 14 20 38 57.0 46.39N 15.07E 0
LJU V 14 20 38 57.0 46.39N 15.07E 0 0.6L **¶601124581**
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
LJU Rockburst.

(548) Poland

ISC V 15 00 53 20.0–1.1 51.48N–.05 16.10E–.02 0 66 1-4
ISCJB V 15 00 53 18.5–.74 51.45N–.03 16.12E–.03 0 **¶16521342**
PRU V 15 00 53 20.8 51.46N 16.12E 0
WAR V 15 00 53 20.5 51.48N 16.11E 1 2.2W
CSEM V 15 00 53 20.0–.42 51.46N 16.11E 2 2.8L
VIE V 15 00 53 21.4–.87 51.30N 16.01E 0 2.3L,2.1b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.1km s-min=2.9km az=13.0.
PRU Event type ki.
CSEM Event type ki.
VIE Event type sr. Error ellipse: s-maj=7.0km s-min=6.2km az=55.0. Suspected Mining induced.

(547) Czech and Slovak Republics

ISC V 15 01 43 05.1–.74 49.84N–.03 18.51E–.02 0 68 0-3
ISCJB V 15 01 43 04.4–.39 49.83N–.03 18.43E–.03 0 **¶16521343**
IPEC V 15 01 43 05.5–.18 49.80N 18.54E 0 1.7L
CSEM V 15 01 43 05.5–.24 49.79N 18.43E 2 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.5km s-min=2.3km az=16.5.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.0km s-min=3.5km az=16.0.

(374) Jordan-Syria region

DDA V 15 10 10 13.3 36.29N 37.08E 7 2.8
NSSC V 15 10 10 05.1–2.4 36.13N 37.37E 36–54 1.7L,1.3 **¶601584531**
CSEM V 15 10 10 13.4 36.29N 37.08E 7 2.8,1.3
DDA Event type sm. Suspected Mining explosion.
NSSC Error ellipse: s-maj=8.9km s-min=39.6km az=-1.0.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(374) Jordan-Syria region

ISC V 15 15 15 33.2–.84 36.48N–.04 38.57E–.03 0 46 0-2
ISCJB V 15 15 15 34.5–.45 36.56N–.03 38.59E–.03 0 **¶16853588**
CSEM V 15 15 15 34.4–.36 36.56N 38.55E 1 3.1
NSSC V 15 15 15 34.7–.97 36.37N 38.58E 104–12 2.1L
DDA V 15 15 15 35.0 36.55N 38.51E 7 3.1
ISK V 15 15 15 36.0 36.68N 38.37E 10 2.9
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.5km az=14.0.
CSEM Event type sm. Error ellipse: s-maj=8.4km s-min=7.2km az=4.0. Suspected Mining explosion.
NSSC Error ellipse: s-maj=8.3km s-min=7.5km az=-1.0.
DDA Event type sm. Suspected Mining explosion.

(460) Wyoming

ISC V 15 18 45 40.0–.72 43.84N–.03 105.28W–.02 0 53 1-19
ISCJB V 15 18 45 38.4–.35 43.77N–.04 105.47W–.03 0 **¶17203704**
IDC V 15 18 45 38.4–2.2 43.66N 105.38W 0 3.6,3.4
NEIC V 15 18 45 39.4–1.1 43.75N 105.36W 0 3.1L,3.4
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.3km s-min=2.5km az=169.8.
IDC Error ellipse: s-maj=50.6km s-min=9.2km az=151.0.
NEIC Event type fm. Error ellipse: s-maj=12.2km s-min=11.5km az=69.0. 61 km [38 miles] S of Gillette. Suspected Mining explosion.

(369) Dodecanese Islands

ISC V 15 23 51 20.3–1.1 36.87N–.06 28.22E–.04 0 22 0-1
ISCJB V 15 23 51 21.6–.73 36.94N–.04 28.28E–.04 0 **¶16853609**
DDA V 15 23 51 22.1 36.98N 28.25E 7 2.6
CSEM V 15 23 51 22.5–.29 36.96N 28.25E 1 2.4
ISK V 15 23 51 22.2 36.97N 28.29E 6 2.4
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.9km s-min=4.2km az=33.0.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.8km s-min=4.9km az=24.0. Suspected Mining explosion.

(366) Turkey

ISC V 17 12 30 32.7–.75 40.48N–.02 37.29E–.02 0 68 0-2
ISK V 17 12 30 31.4 40.54N 37.31E 5 2.5L **¶16853646**
ISCJB V 17 12 30 32.4–.41 40.54N–.03 37.31E–.03 0 2.5L
DDA V 17 12 30 32.1 40.45N 37.32E 3 2.8
CSEM V 17 12 30 32.6–.26 40.52N 37.31E 2 2.5L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.0km az=21.0.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.4km s-min=4.7km az=13.0. Suspected Mining explosion.

(366) Turkey

ISC V 17 12 45 02.9–.75 37.27N–.02 28.10E–.03 0 48 0-2
ISK V 17 12 45 02.4 37.30N 28.22E 13 2.8 **¶16853647**
ISCJB V 17 12 45 03.4–.41 37.23N–.03 28.17E–.03 0 2.8
DDA V 17 12 45 03.3 37.24N 28.20E 7 2.6
CSEM V 17 12 45 03.4–.20 37.25N 28.18E 1 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.7km s-min=2.8km az=43.8.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.0km s-min=3.4km az=43.0. Suspected Mining explosion.

(549) Hungary

CSEM V 17 15 06 48.4–.23 48.89N 21.05E 1 1.8L
¶602385698
CSEM Event type sm. Error ellipse: s-maj=6.8km s-min=3.9km az=161.0. Suspected Mining explosion.

(336) Western Kazakhstan

ISC V 18 06 08 31.8–3.8 49.30N–.09 60.3E–.20 0 44 0-2
CSEM V 18 06 08 32.1 49.20N 60.25E 0 3.7b **¶16956118**
NNC V 18 06 08 32.1–.32 49.20N 60.25E 0 3.7b,2.7
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
NNC Event type sm. Error ellipse: s-maj=5.5km s-min=1.6km az=11.0. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 18 07 08 27.8–.99 59.65N–.05 22.25E–.02 0 53 1-10
ISCJB V 18 07 08 28.8–.57 59.69N–.05 22.29E–.06 0 **¶17203858**
IDC V 18 07 08 29.2–3.1 59.54N 22.38E 0 3.0,2.8
CSEM V 18 07 08 29.4–.32 59.72N 22.37E 2 1.6L,2.8
HEL V 18 07 08 30.3 59.68N 22.31E 0 2.2L,2.8
UPP V 18 07 08 32.1–.90 59.74N 21.93E 0 1.6L,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=7.4km s-min=4.0km az=168.9.
IDC Error ellipse: s-maj=43.8km s-min=15.4km az=162.0.
CSEM Event type km. Error ellipse: s-maj=9.3km s-min=5.5km az=171.0. Mining explosion.
HEL Event type kh. Explosion.
UPP Event type sh. Error ellipse: s-maj=0.0km s-min=0.1km az=-1.0. Suspected explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 18 07 13 36.9–.73 59.75N–.04 22.39E–.02 0 57 1-10
ISCJB V 18 07 13 38.0–.43 59.66N–.03 22.27E–.05 0 **¶17203859**
CSEM V 18 07 13 38.8–.25 59.64N 22.29E 2 1.9L
HEL V 18 07 13 39.2–.10 59.68N 22.26E 0 2.0L,2.0L
UPP V 18 07 13 39.1–1.4 59.75N 22.23E 0 2.0L,2.0L
IDC V 18 07 13 40.8–2.3 59.80N 22.23E 0 3.1,3.0
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.0km s-min=3.8km az=174.9.
CSEM Event type km. Error ellipse: s-maj=7.3km s-min=5.3km az=1.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.9km s-min=0.6km az=-1.0. Explosion.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=27.7km s-min=11.1km az=166.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 18 07 13 58.8–2.3 59.7N–.20 22.33E–.07 0 13 1-10
IDC V 18 07 13 59.8–3.3 59.48N 22.52E 0 3.2,3.0 **¶17203862**
ISCJB V 18 07 14 00.9–1.6 59.7N–.10 22.2E–.10 0 3.2,3.0
UPP V 18 07 14 02.1–1.2 59.83N 22.08E 0 2.1L,3.0
ISC Event type sh.
IDC Error ellipse: s-maj=42.1km s-min=12.1km az=166.0.
ISCJB Event type sh. Error ellipse: s-maj=21.4km s-min=6.2km az=168.0.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0. Suspected explosion.

(367) Turkey-Georgia-Armenia border region

DDA V 18 08 29 02.5 41.21N 41.93E 7 2.5
¶602861796
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC V 18 09 12 07.0–1.3 51.26N–.07 15.99E–.04 0 27 0-3
WAR V 18 09 12 02.3 51.50N 16.13E 1 2.3W **¶603797438**
ISC Event type ke.

(721) Finland

ISC V 18 11 49 39.8–.79 63.18N–.03 21.80E–.03 0 42 0-7
ISCJB V 18 11 49 37.4–.54 63.22N–.03 21.77E–.06 0 **¶17203876**
IDC V 18 11 49 41.4–1.0 63.07N 21.63E 0 2.9,2.9
CSEM V 18 11 49 42.9 63.15N 21.76E 0 1.8L,2.9
HEL V 18 11 49 42.9–.10 63.15N 21.76E 0 1.8L,2.9
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=3.7km az=17.4.
IDC Error ellipse: s-maj=11.5km s-min=7.8km az=45.0.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=1.3km az=-1.0. Explosion.

(536) Sweden

UPP V 18 12 36 09.0 56.15N 14.84E 0 1.2L
CSEM V 18 12 36 09.0 56.15N 14.84E 0 1.2L **¶602385741**
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(548) Poland

ISC V 18 15 07 40.3–1.5 51.41N–.07 16.03E–.04 0 51 1-4
ISCJB V 18 15 07 37.1–1.0 51.49N–.04 16.06E–.05 0 **¶16528569**
CSEM V 18 15 07 37.8–.56 51.50N 16.12E 2 3.2L
WAR V 18 15 07 38.2 51.54N 16.14E 1 2.3W
PRU V 18 15 07 39.2 51.48N 16.10E 0 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.7km s-min=3.5km az=22.9.
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=5.1km az=17.0.
PRU Event type ki.

(548) Poland

PRU V 19 08 21 16.8 51.41N 16.27E 0
WAR V 19 08 20 57.5 52.44N 16.19E 1 **¶16535755**
CSEM V 19 08 21 15.3–.62 51.46N 16.27E 1
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9.8km s-min=5.7km az=26.0.

(329) Eastern Kazakhstan

NNC V 19 08 34 16.8–.92 51.62N 75.63E 0 3.8b,3.4
¶16956159
NNC Event type sm. Error ellipse: s-maj=17.6km s-min=6.0km az=28.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC V 19 16 27 48.3–.77 50.23N–.03 18.73E–.02 0 75 0-4
PRU V 19 16 27 30.8 49.83N 18.54E 0 **¶16535763**
ISCJB V 19 16 27 47.0–.46 50.32N–.03 18.68E–.03 0
WAR V 19 16 27 48.8 50.27N 18.81E 1 2.7W
CSEM V 19 16 27 48.4–.31 50.30N 18.71E 2 3.1L
ISC Event type ki.
PRU Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=2.2km az=13.2.
CSEM Event type ki. Error ellipse: s-maj=8.3km s-min=3.5km az=8.0.

(548) Poland

ISC V 19 17 04 39.4–.93 50.07N–.05 18.42E–.02 0 25 0-3
WAR V 19 17 05 39.3 50.04N 18.44E 1 2.2W **¶603797466**
ISC Event type ke.

(548) Poland

PRU V 20 02 19 03.4 50.16N 19.15E 0
CSEM V 20 02 19 02.8–.36 50.17N 19.14E 1 **¶16535776**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9.2km s-min=5.1km az=179.0.

(548) Poland

PRU V 20 03 30 31.6 50.25N 19.25E 0
CSEM V 20 03 30 30.6–.45 50.29N 19.25E 1 **¶16535777**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=10.9km s-min=4.3km az=7.0.

(377) Spain

CSEM V 20 10 07 12.7–.22 41.46N 1.42E 19 1.8L
¶602385850
CSEM Event type km. Error ellipse: s-maj=3.9km s-min=2.5km az=152.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 20 10 07 12.9–1.8 67.57N–.05 33.81E–.09 0 44 2-12
HEL V 20 10 07 13.9–1.2 67.63N 33.97E 0 2.3L **¶601480628**
CSEM V 20 10 07 13.2–1.1 67.56N 33.72E 2 2.3L
NAO V 20 10 07 15.9–2.4 67.57N 33.25E 2.5L
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=5.0km s-min=19.3km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=20.9km s-min=11.3km az=113.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.

(724) Baltic States-Belarus-Northwestern Russia

ISC V 20 10 35 04.5–.84 59.33N–.02 27.17E–.04 0 48 1-10
ISCJB V 20 10 35 03.6–.66 59.32N–.03 27.19E–.07 0 **¶16531779**
CSEM V 20 10 35 04.8–.44 59.32N 27.10E 2 1.9L
NAO V 20 10 35 04.8–1.1 59.31N 27.04E 2.2L
HEL V 20 10 35 05.5–.10 59.32N 27.16E 0 1.9L
BER V 20 10 35 06.0–1.6 59.33N 27.07E 0 2.2L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.7km s-min=3.5km az=24.3.
CSEM Event type km. Error ellipse: s-maj=10.5km s-min=6.1km az=106.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
HEL Event type kh. Error ellipse: s-maj=0.7km s-min=2.6km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=3.1km s-min=13.8km az=-1.0. Suspected explosion.

(548) Poland

ISC V 20 19 37 11.2–.84 51.61N–.03 16.06E–.02 0 88 1-5
ISCJB V 20 19 37 10.5–.55 51.52N–.03 16.09E–.03 0 **¶16535785**
CSEM V 20 19 37 11.7–.30 51.57N 16.05E 2 3.2L
PRU V 20 19 37 13.1 51.53N 16.03E 0 3.2L
VIE V 20 19 37 15.6–.59 51.33N 16.09E 0 2.6L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=2.6km az=13.9.
CSEM Event type ki. Error ellipse: s-maj=4.9km s-min=3.9km az=3.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=7.0km s-min=4.6km az=86.0. Suspected Mining induced.

(536) Sweden

HEL V 20 23 19 26.5–.10 67.85N 20.21E 0 1.7L,1.3L
CSEM V 20 23 19 25.2–.37 67.80N 20.31E 2 1.3L,1.3L **¶602385817**
UPP V 20 23 19 26.0 67.85N 20.20E 0 1.3L,1.3L
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=8.4km s-min=7.6km az=35.0. Mining explosion.
UPP Event type km. Mining explosion.

(548) Poland

ISC V 20 23 47 33.5–1.3 51.53N–.06 15.96E–.03 0 50 1-4

ISCJB V 20 23 47 31.2–.91 51.55N–.04 16.01E–.04 0 ¶16535789
CSEM V 20 23 47 32.5–.56 51.57N 16.00E 2 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.4km s-min=3.1km az=19.9.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=4.4km az=22.0.

(548) Poland

ISC V 21 03 48 01.8–.64 51.47N–.02 16.18E–.02 0 152 1-60
ISCJB V 21 03 48 00.6–.27 51.47N–.02 16.22E–.02 0 3.2b ¶16535800
CSEM V 21 03 48 02.6–.14 51.46N 16.18E 2 3.5L
WAR V 21 03 48 03.9 51.44N 16.19E 1 3.0W
IDC V 21 03 48 03.5–.61 51.48N 16.06E 0 3.3,3.1
PRU V 21 03 48 04.4 51.41N 16.11E 0 3.3,3.1
BGR V 21 03 48 04.3–.58 51.41N 16.20E 1 3.2L,3.1
VIE V 21 03 48 05.6–.91 51.26N 16.35E 0 3.0L,2.4b
UPP V 21 03 48 06.6–3.3 51.68N 15.66E 0 2.0L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.4km s-min=2.0km az=29.9.
CSEM Event type ki. Error ellipse: s-maj=2.7km s-min=2.4km az=43.0.
IDC Error ellipse: s-maj=12.3km s-min=6.1km az=104.0.
PRU Event type ki.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=5.6km az=103.0.
VIE Event type sr. Error ellipse: s-maj=10.8km s-min=6.5km az=95.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0. Suspected explosion.

(366) Turkey

ISC V 21 08 55 11.9–.83 37.28N–.03 28.13E–.03 0 40 0-2
ISK V 21 08 55 11.6 37.28N 28.22E 7 2.3L ¶16854327
ISCJB V 21 08 55 12.5–.45 37.25N–.03 28.20E–.03 0 2.3L
DDA V 21 08 55 12.5 37.25N 28.21E 7 2.7
CSEM V 21 08 55 12.5–.16 37.26N 28.22E 1 2.3L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.2km az=27.5.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=3.9km s-min=2.9km az=25.0. Suspected Mining explosion.

(536) Sweden

ISC V 22 02 11 21.3–.86 67.84N–.03 20.17E–.03 0 56 0-7
UPP V 22 02 11 20.9 67.88N 20.10E 0 0.6L ¶601480682
CSEM V 22 02 11 20.9–.27 67.82N 20.16E 1–1 0.6L
ISCJB V 22 02 11 20.2–.58 67.81N–.03 20.20E–.08 0 0.6L
NAO V 22 02 11 21.7–1.5 67.82N 20.36E 2.1L
HEL V 22 02 11 21.5–.10 67.85N 20.13E 0 1.8L,0.6L
BER V 22 02 11 24.0–3.5 67.83N 20.21E 0 1.8L,0.6L
ISC Event type km.
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=6.1km s-min=4.6km az=149.0. Mining explosion.
ISCJB Event type km. Error ellipse: s-maj=4.2km s-min=3.7km az=166.3.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=6.9km s-min=30.0km az=-1.0. Suspected explosion.

(536) Sweden

ISC V 22 02 13 15.2–.81 45.75N–.01 6.48E–.02 11–6 143 0-5
CSEM V 22 02 13 14.1–.11 45.74N 6.44E 5 2.3L ¶16533363
GEN V 22 02 13 15.5 45.75N 6.54E 12 1.3L
LDG V 22 02 13 15.2–.05 45.73N 6.48E 2 2.4,2.3L
ZUR V 22 02 13 15.4 45.74N 6.49E 5–2 1.8L,2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=77.0.
LDG Event type ke. Error ellipse: s-maj=1.2km s-min=1.0km az=83.0.
ZUR Event type ke.

(536) Sweden

ISC V 22 06 55 43.3–.72 67.15N–.02 20.65E–.03 0 87 1-8
ISCJB V 22 06 55 42.7–.38 67.15N–.02 20.72E–.08 0 ¶16549128
CSEM V 22 06 55 43.8–.34 67.04N 21.11E 1 1.4L
UPP V 22 06 55 43.8 67.17N 20.64E 0 1.4L
NAO V 22 06 55 44.3–.90 67.14N 20.95E 2.7L
IDC V 22 06 55 44.2–.98 67.13N 20.96E 0 3.0,3.0
HEL V 22 06 55 44.2–.20 67.15N 20.64E 0 2.0L,1.4L
BER V 22 06 55 46.9–3.8 67.13N 20.87E 0 2.7L,2.5L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.5km s-min=2.8km az=14.4.
CSEM Event type km. Error ellipse: s-maj=13.6km s-min=5.7km az=106.0. Mining explosion.
UPP Event type km. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=8.2km az=108.0.
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=5.6km s-min=28.7km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

PRU V 22 11 29 36.1 49.83N 18.50E 0
CSEM V 22 11 29 35.5–.30 49.88N 18.50E 1 ¶16535845
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=13.3km s-min=4.2km az=5.0.

(547) Czech and Slovak Republics

PRU V 22 21 48 59.5 49.79N 18.51E 0
¶16535859
PRU Event type ki.

(547) Czech and Slovak Republics

ISC V 23 04 14 10.5–.74 49.79N–.03 18.50E–.02 0 62 0-4
ISCJB V 23 04 14 09.8–.37 49.82N–.03 18.41E–.03 0 ¶16546329
IPEC V 23 04 14 10.5–.18 49.80N 18.54E 0 1.8L
CSEM V 23 04 14 10.4–.22 49.81N 18.45E 2 2.5L
PRU V 23 04 14 11.9 49.82N 18.43E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.6km s-min=2.1km az=15.8.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=3.2km az=12.0.
PRU Event type ki.

(364) Greece

ATH V 23 05 21 10.9 40.58N 21.66E 5–38
CSEM V 23 05 21 10.9–.13 40.57N 21.67E 2 ¶600917206
SKO V 23 05 21 12.1 40.57N 21.63E 5 1.1L
ATH Event type sm. Error ellipse: s-maj=38.3km s-min=1.4km az=270.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=3.2km s-min=2.8km az=58.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC V 23 12 12 16.7–.71 49.80N–.03 18.38E–.01 0 96 0-4
SIGU V 23 12 12 13.7–.20 49.82N–.01 18.49E–.01 2–0 3.0b ¶16546330
ISCJB V 23 12 12 15.0–.33 49.79N–.03 18.32E–.03 0 3.0b
CSEM V 23 12 12 15.4–.24 49.82N 18.42E 1 3.1L
IPEC V 23 12 12 15.7–.21 49.83N 18.55E 0–4 2.2L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.3km s-min=2.1km az=20.4.
CSEM Event type ki. Error ellipse: s-maj=6.7km s-min=3.5km az=14.0.
IPEC Event type ki. Error ellipse: s-maj=2.5km s-min=1.1km az=160.0.

(536) Sweden

UPP V 23 14 36 11.7–.10 58.34N 11.87E 0 2.5L
CSEM V 23 14 36 11.3–.21 58.34N 11.84E 2 2.5L ¶16538103
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.7km s-min=4.2km az=88.0. Mining explosion.

(548) Poland

ISC V 23 16 19 08.9–.96 50.37N–.05 18.86E–.02 0 49 0-3
ISCJB V 23 16 19 08.3–.65 50.35N–.04 18.80E–.03 0 ¶16546334
CSEM V 23 16 19 08.9–.28 50.38N 18.83E 2 2.6L
PRU V 23 16 19 09.7 50.35N 18.83E 0 2.6L
IPEC V 23 16 19 09.0–.21 50.39N 18.88E 0–1 1.7L
WAR V 23 16 19 09.6 50.35N 18.92E 1 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=2.6km az=9.2.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=2.4km az=7.0.
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=0.8km az=170.0.

(548) Poland

ISC V 23 16 49 07.3–1.0 51.41N–.05 16.14E–.02 0 59 1-4
ISCJB V 23 16 49 05.4–.71 51.38N–.03 16.19E–.03 0 ¶16546336
CSEM V 23 16 49 07.0–.37 51.40N 16.15E 2 3.2L
WAR V 23 16 49 07.0 51.44N 16.20E 1 2.5W
PRU V 23 16 49 08.1 51.37N 16.16E 0 2.5W
VIE V 23 16 49 09.2–.92 51.23N 16.24E 0 2.4L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.8km s-min=2.8km az=12.4.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=3.5km az=2.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=4.9km s-min=4.6km az=153.0. Suspected Mining induced.

(366) Turkey

ISC V 24 09 09 22.5–.84 37.24N–.03 28.19E–.02 0 37 0-2
DDA V 24 09 09 21.8 37.26N 28.22E 7 2.7 ¶16854843
ISK V 24 09 09 21.6 37.23N 28.19E 5 2.3L
ISCJB V 24 09 09 22.2–.47 37.24N–.04 28.21E–.03 0 2.3L
CSEM V 24 09 09 22.4–.23 37.25N 28.22E 2 2.3L
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.0km s-min=3.8km az=170.7.
CSEM Event type sm. Error ellipse: s-maj=5.9km s-min=4.5km az=11.0. Suspected Mining explosion.

(366) Turkey

ISC V 24 11 05 20.0–1.3 40.20N–.04 35.15E–.06 0 21 0-1
ISCJB V 24 11 05 18.9–1.3 40.16N–.05 35.20E–.08 0 ¶601585400
CSEM V 24 11 05 20.1–.82 40.19N 35.10E 0–6 2.8
DDA V 24 11 05 21.1 40.21N 35.00E 9 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=10.0km s-min=5.9km az=25.6.
CSEM Event type sm. Error ellipse: s-maj=17.9km s-min=8.9km az=121.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC V 25 03 44 06.2–.87 50.21N–.04 18.78E–.03 0 35 0-4
ISCJB V 25 03 44 05.6–.58 50.25N–.04 18.74E–.04 0 ¶16546363
IPEC V 25 03 44 06.0–.24 50.31N 18.78E 0–2 1.6L
CSEM V 25 03 44 06.3–.21 50.27N 18.76E 2 2.5L
PRU V 25 03 44 06.7 50.27N 18.76E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.7km s-min=3.3km az=3.7.
IPEC Event type ki. Error ellipse: s-maj=2.5km s-min=1.1km az=168.0.
CSEM Event type ki. Error ellipse: s-maj=5.3km s-min=2.9km az=1.0.
PRU Event type ki.

(548) Poland

ISC V 25 06 50 24.0–.82 51.48N–.04 16.15E–.02 0 68 1-19
ISCJB V 25 06 50 23.7–.72 51.41N–.03 16.18E–.03 0 ¶16546368
IPEC V 25 06 50 24.5–.51 51.47N 16.27E 0–2 1.9L
CSEM V 25 06 50 25.0–.38 51.41N 16.18E 2 3.1L
IDC V 25 06 50 25.2–1.2 51.40N 16.33E 0 3.6,3.4
WAR V 25 06 50 25.7 51.44N 16.19E 1 2.5W,3.4
PRU V 25 06 50 26.7 51.39N 16.13E 0 2.5W,3.4
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=2.9km az=13.6.
IPEC Event type ki. Error ellipse: s-maj=3.5km s-min=2.4km az=45.0.
CSEM Event type ki. Error ellipse: s-maj=6.0km s-min=3.5km az=3.0.
IDC Error ellipse: s-maj=24.6km s-min=10.8km az=108.0.
PRU Event type ki.

(329) Eastern Kazakhstan

NNC V 25 07 23 35.1–.50 50.07N 78.71E 0 3.6b,3.3
¶17002778
NNC Event type sm. Error ellipse: s-maj=8.6km s-min=2.6km az=79.0. Suspected Mining explosion.

(366) Turkey

DDA V 25 14 37 17.9 39.88N 33.42E 7 2.8
CSEM V 25 14 37 17.9 39.88N 33.42E 7 2.8 ¶601585586
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(548) Poland

ISC V 25 15 39 30.9–.68 51.55N–.03 16.11E–.02 0 152 1-60
ISCJB V 25 15 39 29.9–.36 51.48N–.02 16.09E–.02 0 3.5b ¶16546375
CSEM V 25 15 39 31.6–.18 51.48N 16.10E 2 3.6L
IDC V 25 15 39 32.8–.77 51.46N 16.05E 0 3.5,3.4
WAR V 25 15 39 32.6 51.49N 16.09E 1 2.8W,3.4
BGR V 25 15 39 32.6–.53 51.49N 16.11E 1 3.2L,3.4
PRU V 25 15 39 33.0 51.47N 16.13E 0 3.2L,3.4
VIE V 25 15 39 34.0 51.43N 15.98E 0 3.2L,3.4
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=3.0km s-min=1.9km az=10.2.
CSEM Event type ki. Error ellipse: s-maj=3.6km s-min=1.9km az=12.0.
IDC Error ellipse: s-maj=13.8km s-min=7.6km az=103.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=5.6km az=158.0.
PRU Event type ki.
VIE Event type sr. Suspected Mining induced.

(548) Poland

ISC V 25 16 45 02.7–.60 51.56N–.02 16.12E–.02 0 187 1-60
ISCJB V 25 16 45 02.0–.27 51.55N–.02 16.15E–.02 0 3.4b,3.0s ¶16546376
CSEM V 25 16 45 04.2–.14 51.55N 16.12E 2 3.8L,3.0s
IDC V 25 16 45 05.3–.68 51.55N 16.00E 0 3.5,3.4
WAR V 25 16 45 05.3 51.53N 16.10E 1 3.0W,3.4
BGR V 25 16 45 06.1–.52 51.55N 16.08E 1 3.5L,3.4
VIE V 25 16 45 08.9–1.9 51.23N 15.93E 0 2.8L,2.7b
UPP V 25 16 45 09.0–2.8 51.87N 15.53E 0 2.3L,2.7b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.3km s-min=1.9km az=30.7.
CSEM Event type ki. Error ellipse: s-maj=3.0km s-min=2.6km az=47.0.
IDC Error ellipse: s-maj=11.7km s-min=6.4km az=119.0.
BGR Event type ki. Error ellipse: s-maj=6.7km s-min=5.6km az=2.0.
VIE Event type sr. Error ellipse: s-maj=11.1km s-min=9.3km az=165.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(546) Austria

VIE V 25 17 00 06.9–.45 47.41N 12.62E 0 1.2L,1.1b
CSEM V 25 17 00 06.9 47.41N 12.62E 0 1.2L,1.1b ¶602385991
VIE Event type sm. Error ellipse: s-maj=4.0km s-min=3.0km az=168.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(548) Poland

ISC V 25 17 17 05.7–.82 50.11N–.04 18.42E–.02 0 49 0-3
ISCJB V 25 17 17 04.7–.56 50.10N–.04 18.36E–.03 0 ¶16546378
IPEC V 25 17 17 05.7–.17 50.07N 18.46E 0–3 1.5L
CSEM V 25 17 17 05.5–.29 50.08N 18.38E 1 2.6L
WAR V 25 17 17 05.1 50.06N 18.41E 1 2.3W
PRU V 25 17 17 07.6 50.03N 18.31E 0 2.3W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.7km az=9.4.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.3km s-min=3.1km az=7.0.
PRU Event type ki.

(548) Poland

ISC V 26 02 26 15.3–.86 51.61N–.03 16.14E–.02 0 75 1-4
ISCJB V 26 02 26 15.0–.61 51.52N–.03 16.13E–.03 0 ¶16550960
CSEM V 26 02 26 16.2–.29 51.54N 16.12E 2 3.2L
WAR V 26 02 26 17.2 51.53N 16.09E 1 2.4W
VIE V 26 02 26 20.2–.73 51.30N 16.04E 0 2.5L,2.3b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.3km s-min=2.9km az=19.0.
CSEM Event type ki. Error ellipse: s-maj=4.4km s-min=3.8km az=16.0.
VIE Event type sr. Error ellipse: s-maj=8.2km s-min=4.3km az=98.0. Suspected Mining induced.

(364) Greece
ATH V 26 11 26 23.1 40.42N 21.87E 0–4
CSEM V 26 11 26 23.0 40.42N 21.87E 0 ¶600917304
SKO V 26 11 26 24.9 40.42N 21.92E 6
ATH Event type sm. Error ellipse: s-maj=5.0km s-min=1.1km az=176.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
(366) Turkey
ISC V 26 12 28 10.8–.80 39.09N–.02 27.57E–.03 0 37 0-2
ISCJB V 26 12 28 10.7–.49 39.11N–.02 27.53E–.04 0 ¶16855130
DDA V 26 12 28 10.8 39.12N 27.53E 7 2.6
CSEM V 26 12 28 11.0–.38 39.08N 27.58E 1 2.6
ISK V 26 12 28 15.5 39.20N 28.10E 14 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=3.4km az=15.0.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9.7km s-min=6.1km az=97.0. Suspected Mining explosion.
(547) Czech and Slovak Republics
ISC V 26 12 34 16.0–.79 49.78N–.04 18.48E–.02 0 41 0-3
ISCJB V 26 12 34 15.1–.48 49.81N–.04 18.44E–.03 0 ¶16551029
CSEM V 26 12 34 16.1–.20 49.80N 18.45E 1 2.5L
IPEC V 26 12 34 16.2–.18 49.80N 18.50E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.7km az=16.9.
CSEM Event type ki. Error ellipse: s-maj=5.3km s-min=2.7km az=12.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=162.0.
(366) Turkey
ISC V 26 13 56 06.0–.96 37.01N–.03 28.02E–.04 0 33 0-2
ISCJB V 26 13 56 07.3–.63 36.99N–.03 28.00E–.05 0 ¶600917312
CSEM V 26 13 56 07.8–.22 36.99N 28.02E 1 2.7
ATH V 26 13 56 07.3 37.03N 28.11E 33–7 2.2L
DDA V 26 13 56 08.2 37.03N 27.97E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.2km s-min=4.2km az=4.4.
CSEM Event type sm. Error ellipse: s-maj=4.5km s-min=3.7km az=102.0. Suspected Mining explosion.
ATH Event type ke. Error ellipse: s-maj=8.4km s-min=1.9km az=64.0.
DDA Event type sm. Suspected Mining explosion.
(366) Turkey
ISC V 26 16 24 16.2–.76 39.34N–.03 27.69E–.02 0 72 0-2
ISCJB V 26 16 24 16.3–.31 39.31N–.02 27.70E–.03 0 ¶16855156
CSEM V 26 16 24 16.4–.15 39.31N 27.69E 1 2.9
ISK V 26 16 24 16.4 39.31N 27.67E 9 2.9
DDA V 26 16 24 17.0 39.28N 27.71E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=3.3km s-min=2.7km az=151.9.
CSEM Event type sm. Error ellipse: s-maj=3.3km s-min=3.2km az=46.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(547) Czech and Slovak Republics
PRU V 26 20 43 00.8 49.81N 18.46E 0
CSEM V 26 20 43 00.8–.32 49.73N 18.40E 1 ¶16551080
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9.2km s-min=5.0km az=19.0.
(548) Poland
PRU V 26 20 43 13.6 50.14N 19.15E 0
CSEM V 26 20 43 12.9–.36 50.14N 19.16E 1 ¶16551083
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.9km s-min=4.6km az=168.0.
(548) Poland
ISC V 27 01 01 48.8–.78 50.09N–.04 18.43E–.02 0 54 0-3
ISCJB V 27 01 01 47.9–.53 50.10N–.03 18.37E–.03 0 ¶16551104
CSEM V 27 01 01 48.9–.24 50.07N 18.42E 2 2.5L
WAR V 27 01 01 49.0 50.04N 18.44E 1 2.4W
IPEC V 27 01 01 49.3–.17 50.03N 18.49E 1–2 1.9L
PRU V 27 01 01 50.4 50.05N 18.37E 0 1.9L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.7km s-min=2.5km az=10.7.
CSEM Event type ki. Error ellipse: s-maj=5.1km s-min=2.7km az=3.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
PRU Event type ki.
(548) Poland
ISC V 27 05 52 05.7–.82 50.05N–.04 18.42E–.02 0 54 0-3
ISCJB V 27 05 52 04.6–.56 50.06N–.04 18.41E–.03 0 ¶16551128
IPEC V 27 05 52 05.6–.17 50.07N 18.47E 2–2 1.8L
CSEM V 27 05 52 05.6–.24 50.05N 18.43E 1 2.5L
PRU V 27 05 52 06.9 50.02N 18.37E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.5km s-min=2.8km az=5.4.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=5.8km s-min=2.8km az=8.0.
PRU Event type ki.
(366) Turkey
ISC V 27 08 36 27.2–.94 36.98N–.04 28.31E–.03 0 26 0-1
ISCJB V 27 08 36 27.8–.52 37.03N–.05 28.31E–.04 0 ¶16855259
ISK V 27 08 36 27.4 37.06N 28.33E 18 2.6
DDA V 27 08 36 28.4 36.98N 28.23E 7 2.7
CSEM V 27 08 36 28.1–.30 37.03N 28.31E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.9km s-min=3.2km az=28.5.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9.7km s-min=4.7km az=26.0. Suspected Mining explosion.
(548) Poland
ISC V 27 08 51 24.1–.79 50.18N–.03 18.95E–.02 0 57 0-4
ISCJB V 27 08 51 23.4–.48 50.21N–.03 18.90E–.03 0 ¶16551142
WAR V 27 08 51 24.8 50.21N 19.05E 1 2.6W
CSEM V 27 08 51 24.3–.21 50.22N 18.94E 2 2.8L
PRU V 27 08 51 25.0 50.21N 18.93E 0 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.9km s-min=2.6km az=12.2.
CSEM Event type ki. Error ellipse: s-maj=5.1km s-min=2.8km az=10.0.
PRU Event type ki.
(366) Turkey
ISC V 27 09 03 13.6–1.1 37.37N–.04 28.41E–.04 0 24 0-1
ISCJB V 27 09 03 14.6–.75 37.29N–.04 28.38E–.06 0 ¶601585790
CSEM V 27 09 03 14.5–.51 37.28N 28.41E 1 2.6
ISK V 27 09 03 14.2 37.22N 28.31E 24 2.6
DDA V 27 09 03 17.4 37.25N 28.16E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.2km s-min=5.0km az=140.3.
CSEM Event type sm. Error ellipse: s-maj=12.5km s-min=8.3km az=41.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(383) Northwestern Balkan Peninsula
CSEM V 27 14 31 27.8–.39 44.09N 19.16E 1 1.6L
BEO V 27 14 31 26.9–.94 44.06N 18.97E 0 1.5 ¶601258798
CSEM Event type km. Error ellipse: s-maj=7.2km s-min=6.3km az=58.0. Mining explosion.
BEO Event type km. Mining explosion.
(547) Czech and Slovak Republics
PRU V 28 18 02 33.7 49.85N 18.44E 0
CSEM V 28 18 02 31.6–1.1 49.84N 18.56E 1 1.9L ¶16551374
IPEC V 28 18 02 33.0–.18 49.85N 18.52E 0 0.9L
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=16.8km s-min=13.0km az=89.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
(547) Czech and Slovak Republics
ISC V 29 04 39 59.5–.79 49.81N–.04 18.50E–.02 0 52 0-3
ISCJB V 29 04 39 58.8–.45 49.84N–.04 18.46E–.03 0 ¶16551450
CSEM V 29 04 39 59.9–.23 49.83N 18.49E 2 2.6L
IPEC V 29 04 39 59.8–.18 49.83N 18.59E 0–3 1.6L
PRU V 29 04 40 01.0 49.85N 18.47E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=2.5km az=7.3.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.0km az=6.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
PRU Event type ki.
(646) Northern Norway
ISC V 29 19 18 22.3–.86 69.94N–.03 23.10E–.04 0 42 1-10
IDC V 29 19 18 21.8–2.2 70.04N 22.91E 0 3.3,3.2 ¶17204722
ISCJB V 29 19 18 22.7–.53 69.92N–.03 23.1E–.10 0 3.3,3.2
CSEM V 29 19 18 23.4–.30 69.92N 23.14E 2 1.2L,3.2
HEL V 29 19 18 23.9–.30 69.95N 23.04E 0 1.6L,3.2
BER V 29 19 18 24.8–2.6 69.93N 23.07E 0–10 2.2,1.2L
ISC Event type km.
IDC Error ellipse: s-maj=21.2km s-min=9.0km az=177.0.
ISCJB Event type km. Error ellipse: s-maj=5.5km s-min=4.2km az=19.2.
CSEM Event type km. Error ellipse: s-maj=6.8km s-min=5.7km az=123.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=2.0km s-min=1.4km az=-1.0. Explosion.
BER Error ellipse: s-maj=5.1km s-min=19.8km az=-1.0.
(383) Northwestern Balkan Peninsula
LJU V 30 09 21 52.4 45.94N 14.29E 0 0.6L
CSEM V 30 09 21 52.4 45.94N 14.30E 0 0.5L ¶601124709
LJU Artificial.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
(359) Bulgaria
BEO V 30 12 04 45.2–.44 42.41N 24.03E 0 1.7
CSEM V 30 12 04 43.3–.55 42.59N 24.15E 1 1.7L ¶601258806
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=17.7km s-min=6.0km az=37.0. Mining explosion.
(383) Northwestern Balkan Peninsula
BEO V 30 12 19 25.2–.41 44.42N 21.92E 0 1.4
CSEM V 30 12 19 25.2 44.42N 21.92E 0 1.4L ¶601258808
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
(364) Greece
THE V 30 14 12 39.5 40.62N 21.68E 14–1 1.8L
ATH V 30 14 12 39.9 40.63N 21.68E 4–47 1.7L ¶16882634
CSEM V 30 14 12 39.7–.17 40.62N 21.69E 1 1.7L
SKO V 30 14 12 40.2 40.56N 21.68E 0 1.7L
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=300.0.
ATH Event type sm. Error ellipse: s-maj=47.6km s-min=1.2km az=0.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.0km s-min=3.2km az=9.0. Suspected Mining explosion.
(366) Turkey
ISC V 30 14 34 28.4–.84 38.52N–.03 28.40E–.03 0 37 0-1
ISK V 30 14 34 28.2 38.45N 28.46E 10 2.6 ¶16855836
ISCJB V 30 14 34 29.1–.49 38.50N–.03 28.45E–.03 0 2.6
DDA V 30 14 34 29.5 38.49N 28.51E 8 2.6
CSEM V 30 14 34 29.1–.27 38.49N 28.46E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=3.7km az=4.4.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.0km s-min=5.4km az=147.0. Suspected Mining explosion.
(547) Czech and Slovak Republics
PRU V 30 22 44 52.6 49.83N 18.47E 0
CSEM V 30 22 44 52.5–.35 49.77N 18.43E 1 ¶16554402
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=11.4km s-min=3.8km az=26.0.
(366) Turkey
ISC V 31 03 23 39.9–.91 37.19N–.04 27.97E–.03 0 24 0-1
ISCJB V 31 03 23 41.6–.56 37.17N–.04 27.99E–.03 0 ¶16855910
ISK V 31 03 23 41.4 37.17N 27.96E 3 2.4
DDA V 31 03 23 42.2 37.20N 27.96E 7 2.8
CSEM V 31 03 23 42.4–.22 37.17N 27.97E 1 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.0km s-min=3.6km az=17.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.8km s-min=3.7km az=12.0. Suspected Mining explosion.
(366) Turkey
ISC V 31 07 58 41.5–.91 39.20N–.03 27.51E–.04 0 36 0-2
ISCJB V 31 07 58 41.8–.53 39.19N–.03 27.57E–.05 0 ¶16855921
ISK V 31 07 58 41.7 39.16N 27.54E 8 2.7
CSEM V 31 07 58 41.9–.28 39.19N 27.58E 1 2.6
DDA V 31 07 58 42.5 39.16N 27.58E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=3.9km az=9.8.
CSEM Event type sm. Error ellipse: s-maj=7.2km s-min=4.7km az=90.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC V 31 09 03 48.2–.95 59.33N–.03 27.11E–.04 0 52 1-10
NAO V 31 09 03 47.8–1.1 59.30N 26.95E 2.4L ¶16583939
ISCJB V 31 09 03 47.3–.67 59.30N–.03 27.12E–.08 0 2.4L
CSEM V 31 09 03 48.4–.46 59.31N 27.07E 2 1.9L
BER V 31 09 03 48.6–1.9 59.33N 27.03E 0 2.4L
HEL V 31 09 03 49.1–.20 59.30N 27.10E 0 1.9L
IDC V 31 09 03 50.2–2.2 59.48N 27.37E 0 3.1,2.9
ISC Event type km.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
ISCJB Event type km. Error ellipse: s-maj=6.0km s-min=4.2km az=18.1.
CSEM Event type km. Error ellipse: s-maj=10.3km s-min=7.2km az=109.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=3.4km s-min=15.1km az=-1.0. Suspected explosion.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=1.6km az=-1.0. Explosion.
IDC Error ellipse: s-maj=24.6km s-min=13.8km az=97.0.
(537) Baltic Sea
ISC V 31 09 13 18.7–.85 58.98N–.03 18.12E–.04 0 40 1-11
ISCJB V 31 09 13 18.8–.54 58.99N–.04 18.25E–.07 0 ¶16551605
CSEM V 31 09 13 19.6–.31 58.99N 18.21E 2 1.7L
UPP V 31 09 13 19.4–.10 58.99N 18.20E 0 1.7L
IDC V 31 09 13 23.1–1.9 59.24N 18.05E 0 2.8,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=6.2km s-min=4.1km az=143.3.
CSEM Event type km. Error ellipse: s-maj=7.8km s-min=5.2km az=119.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=24.0km s-min=6.9km az=179.0.
(366) Turkey
ISC V 31 12 24 45.9–.94 37.40N–.04 28.10E–.04 0 26 0-1
ISK V 31 12 24 46.4 37.34N 28.04E 28 2.6 ¶16855934
ISCJB V 31 12 24 47.9–.61 37.36N–.03 28.08E–.04 0 2.6
CSEM V 31 12 24 47.9–.32 37.34N 28.05E 1 2.6
DDA V 31 12 24 47.6 37.33N 28.03E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.9km s-min=3.7km az=43.5.
CSEM Event type sm. Error ellipse: s-maj=8.3km s-min=5.7km az=50.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(366) Turkey
DDA V 31 15 10 42.9 40.76N 41.94E 7 2.2 ¶602862439
DDA Event type sm. Suspected Mining explosion.
(366) Turkey
ISC V 31 15 23 32.8–.89 37.12N–.04 37.12E–.04 0 20 0-1
CSEM V 31 15 23 31.8–.14 37.26N 37.07E 1 2.5 ¶16855950
ISK V 31 15 23 32.7 37.12N 37.23E 9 2.5
ISCJB V 31 15 23 33.1–.61 37.19N–.04 37.10E–.04 0 2.5
DDA V 31 15 23 33.2 37.18N 37.09E 7 2.6

ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=3.9km s-min=3.0km az=94.0. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.0km s-min=4.5km az=158.2.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

PRU	**V**	**31 20 23 55.6**	**50.16N**	**19.11E**	**0**		
CSEM	V	31 20 23 55.0–.49	50.19N	19.10E	2		¶16554417

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=14.9km s-min=6.0km az=2.0.

(536) Sweden

HEL	**V**	**31 23 30 54.3**	**67.79N**	**19.97E**	**0**	**1.3L**	
CSEM	V	31 23 30 54.4–.31	67.81N	20.11E	2	0.4L	¶602386169
UPP	V	31 23 30 54.1	67.83N	20.21E	0	0.4L	

HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.5km s-min=6.2km az=152.0. Mining explosion.
UPP Event type km. Mining explosion.

(548) Poland

ISC	**VI**	**01 00 40 35.2–1.2**	**51.42N–.06**	**16.15E–.03**	**0**		**55**	**1-4**
ISCJB	VI	01 00 40 33.2–.87	51.41N–.04	16.18E–.04	0			¶16558668
CSEM	VI	01 00 40 34.8–.36	51.41N	16.19E	2	2.8L		
WAR	VI	01 00 40 35.1	51.44N	16.20E	1	2.1W		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.0km s-min=3.5km az=18.7.
CSEM Event type ki. Error ellipse: s-maj=5.9km s-min=3.3km az=4.0.

(383) Northwestern Balkan Peninsula

LJU	**VI**	**01 04 00 13.7**	**45.62N**	**15.33E**	**0**	**0.6L**	
CSEM	VI	01 04 00 12.1–.22	45.96N	15.05E	1	0.6L	¶602728790

LJU Artificial.
CSEM Event type sm. Error ellipse: s-maj=5.9km s-min=3.5km az=35.0. Suspected Mining explosion.

(329) Eastern Kazakhstan

ISC	**VI**	**01 06 49 32.8–2.1**	**49.5N–.10**	**83.3E–.10**	**0**		**9**	**2-3**
SOME	VI	01 06 49 26.8	49.52N	83.70E	0			¶17061179
NNC	VI	01 06 49 32.7–3.9	49.43N	84.01E	0	3.0b,2.7		
ISCJB	VI	01 06 49 34.1–2.1	49.5N–.10	83.5E–.20	0	3.0b,2.7		

ISC Event type sm.
NNC Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC	**VI**	**01 08 58 46.9–1.1**	**37.28N–.03**	**28.22E–.02**	**0**		**28**	**0-1**
ISK	VI	01 08 58 45.4	37.29N	28.19E	4	2.5		¶17555304
ISCJB	VI	01 08 58 47.0–.55	37.27N–.03	28.22E–.03	0	2.5		
CSEM	VI	01 08 58 47.0–.28	37.27N	28.23E	1	2.5		
DDA	VI	01 08 59 42.9	37.23N	28.24E	2	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.6km az=29.5.
CSEM Event type sm. Error ellipse: s-maj=6.2km s-min=4.8km az=24.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**01 12 47 55.7–1.1**	**37.43N–.02**	**28.11E–.02**	**0**		**31**	**0-1**
ISCJB	VI	01 12 47 55.3–.49	37.43N–.03	28.10E–.03	0			¶17555315
DDA	VI	01 12 47 55.4	37.43N	28.07E	7	2.7		
CSEM	VI	01 12 47 55.4–.16	37.43N	28.11E	1	2.7		
ISK	VI	01 12 47 55.1	37.40N	28.10E	14	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.5km az=34.0.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=3.6km s-min=3.2km az=32.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**01 14 49 53.9–.85**	**37.33N–.04**	**28.27E–.04**	**0**		**23**	**0-1**
ISK	VI	01 14 49 53.8	37.27N	28.17E	5	2.3L		¶17555323
ISCJB	VI	01 14 49 55.6–.56	37.25N–.03	28.18E–.03	0	2.3L		
DDA	VI	01 14 49 55.2	37.23N	28.19E	7	2.5		
CSEM	VI	01 14 49 55.8–.40	37.23N	28.18E	2	2.3L		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.8km az=20.0.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.8km s-min=6.5km az=8.0. Suspected Mining explosion.

(548) Poland

PRU	**VI**	**01 19 10 29.3**	**50.30N**	**18.98E**	**0**		
CSEM	VI	01 19 10 28.1–.50	50.43N	18.97E	1		¶16558654

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=14.3km s-min=5.2km az=6.0.

(548) Poland

ISC	**VI**	**01 19 41 01.7–.95**	**50.23N–.05**	**19.27E–.03**	**0**		**25**	**0-3**
ISCJB	VI	01 19 41 01.3–.81	50.22N–.05	19.25E–.04	0			¶16558653
CSEM	VI	01 19 41 01.9–.28	50.22N	19.27E	1			
PRU	VI	01 19 41 02.6	50.22N	19.28E	0			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=7.5km s-min=3.8km az=1.8.
CSEM Event type ki. Error ellipse: s-maj=6.6km s-min=3.5km az=2.0.
PRU Event type ki.

(548) Poland

ISC	**VI**	**01 19 56 10.9–1.1**	**51.49N–.05**	**16.09E–.02**	**0**		**68**	**1-4**
ISCJB	VI	01 19 56 08.9–.70	51.51N–.04	16.14E–.03	0			¶16558652
CSEM	VI	01 19 56 10.9–.33	51.50N	16.10E	2	3.0L		
WAR	VI	01 19 56 11.4	51.54N	16.08E	1	2.4W		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.8km az=10.8.
CSEM Event type ki.

(548) Poland

PRU	**VI**	**02 02 29 15.8**	**50.13N**	**19.17E**	**0**		
							¶16558686

PRU Event type ki.

(366) Turkey

ISC	**VI**	**02 06 21 02.9–.82**	**37.28N–.03**	**28.24E–.03**	**0**		**30**	**0-1**
ISK	VI	02 06 21 02.7	37.25N	28.17E	5	2.5		¶17555355
ISCJB	VI	02 06 21 03.4–.58	37.26N–.04	28.22E–.04	0	2.5		
DDA	VI	02 06 21 03.3	37.22N	28.21E	7	2.8		
CSEM	VI	02 06 21 03.4–.36	37.28N	28.23E	1	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=3.5km az=38.6.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.5km s-min=6.3km az=43.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**02 08 38 32.9–.86**	**39.27N–.02**	**27.73E–.04**	**0**		**37**	**0-1**
ISCJB	VI	02 08 38 34.0–.46	39.26N–.03	27.74E–.06	0			¶17555360
CSEM	VI	02 08 38 33.2–.39	39.27N	27.64E	1	2.6		
ISK	VI	02 08 38 33.8	39.28N	27.71E	20	2.6		
DDA	VI	02 08 38 34.7	39.26N	27.67E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.5km s-min=3.3km az=161.6.
CSEM Event type sm. Error ellipse: s-maj=13.6km s-min=6.9km az=76.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**02 09 19 38.8–.87**	**37.25N–.05**	**28.14E–.03**	**0**		**31**	**0-1**
ISK	VI	02 09 19 38.7	37.12N	28.12E	13	2.7		¶17555363
ISCJB	VI	02 09 19 39.0–.48	37.15N–.03	28.11E–.03	0	2.7		
DDA	VI	02 09 19 39.6	37.20N	28.06E	7	2.7		
CSEM	VI	02 09 19 39.1–.27	37.19N	28.15E	1	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.2km s-min=3.2km az=27.5.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.7km s-min=4.8km az=28.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**02 10 55 50.5–1.1**	**39.21N–.05**	**30.04E–.03**	**0**		**30**	**0-2**
ISCJB	VI	02 10 55 51.1–.82	39.17N–.05	30.10E–.04	0			¶17555366
ISK	VI	02 10 55 51.0	39.15N	30.03E	10	2.6		
CSEM	VI	02 10 55 51.1–.43	39.17N	30.10E	1	2.6		
DDA	VI	02 10 55 53.1	39.37N	29.87E	7	2.4		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.5km s-min=4.5km az=158.9.
CSEM Event type sm. Error ellipse: s-maj=9.7km s-min=5.4km az=155.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

CSEM	**VI**	**02 15 31 24.7–.30**	**50.14N**	**19.12E**	**1**			
PRU	VI	02 15 31 25.4	50.14N	19.15E	0			¶16558696

CSEM Event type ki. Error ellipse: s-maj=7.5km s-min=5.0km az=3.0.
PRU Event type ki.

(548) Poland

ISC	**VI**	**02 22 04 59.9–.96**	**50.18N–.06**	**19.23E–.02**	**0**		**35**	**0-3**
ISCJB	VI	02 22 04 58.7–.73	50.25N–.05	19.20E–.04	0			¶16558716
CSEM	VI	02 22 04 59.7–.40	50.24N	19.26E	1	2.5L		
PRU	VI	02 22 05 00.6	50.23N	19.25E	0	2.5L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.9km s-min=3.1km az=10.2.
CSEM Event type ki. Error ellipse: s-maj=8.9km s-min=4.1km az=7.0.
PRU Event type ki.

(548) Poland

ISC	**VI**	**03 01 56 27.5–.79**	**50.04N–.03**	**19.06E–.02**	**0**		**48**	**0-4**
ISCJB	VI	03 01 56 27.2–.45	50.08N–.03	19.01E–.03	0			¶16558718
WAR	VI	03 01 56 28.3	50.06N	19.16E	1	2.2W		
PRU	VI	03 01 56 28.5	50.10N	19.04E	0	2.2W		
CSEM	VI	03 01 56 28.0–.26	50.08N	19.04E	2	2.6L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.1km s-min=2.9km az=10.2.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.0km s-min=4.1km az=8.0.

(366) Turkey

ISC	**VI**	**03 06 33 38.7–1.0**	**37.33N–.03**	**28.26E–.04**	**0**		**21**	**0-1**
DDA	VI	03 06 33 38.7	37.28N	28.38E	7	2.6		¶17555388
ISK	VI	03 06 33 38.7	37.22N	28.18E	18	2.6		
ISCJB	VI	03 06 33 39.3–.68	37.32N–.04	28.39E–.06	0	2.6		
CSEM	VI	03 06 33 39.7–.28	37.20N	28.14E	1	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=8.0km s-min=4.5km az=153.8.
CSEM Event type sm. Error ellipse: s-maj=9.5km s-min=4.7km az=49.0. Suspected Mining explosion.

(548) Poland

ISC	**VI**	**03 07 46 05.6–1.5**	**51.42N–.08**	**16.10E–.04**	**0**		**28**	**1-4**
ISCJB	VI	03 07 46 02.4–1.3	51.54N–.06	16.07E–.06	0			¶16558721
WAR	VI	03 07 46 04.8	51.53N	16.08E	1	2.2W		
CSEM	VI	03 07 46 04.5–.59	51.51N	16.10E	1	2.9L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=8.5km s-min=4.3km az=21.2.
CSEM Event type ki. Error ellipse: s-maj=9.0km s-min=4.7km az=3.0.

(723) Finland-Karelia border region

ISC	**VI**	**03 09 04 41.4–.92**	**64.83N–.03**	**30.35E–.05**	**0**		**73**	**1-9**
ISCJB	VI	03 09 04 37.8–.52	64.68N–.02	30.28E–.09	0			¶16583943
UPP	VI	03 09 04 38.6	64.65N	31.08E	0	1.4L		
CSEM	VI	03 09 04 39.8–.40	64.75N	30.78E	1	2.0L		
HEL	VI	03 09 04 40.3–.10	64.74N	30.58E	0	2.0L		
IDC	VI	03 09 04 41.2–1.8	64.75N	31.15E	0	3.2,3.1		
NAO	VI	03 09 04 42.7–1.4	64.83N	29.97E		2.4L,3.1		
BER	VI	03 09 04 44.2–4.8	64.85N	30.24E	0	2.4L,3.1		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.6km s-min=3.3km az=12.5.
UPP Event type sm. Suspected Mining explosion.
CSEM Event type km. Error ellipse: s-maj=11.3km s-min=5.9km az=88.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=4.4km az=-1.0. Explosion.
IDC Error ellipse: s-maj=22.1km s-min=9.0km az=103.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
BER Event type sh. Error ellipse: s-maj=8.9km s-min=40.1km az=-1.0. Suspected explosion.

(366) Turkey

ISC	**VI**	**03 12 03 09.6–1.6**	**37.15N–.06**	**27.98E–.08**	**0**		**22**	**0-1**
ISCJB	VI	03 12 03 11.0–1.2	37.15N–.05	28.05E–.07	0			¶17555404
DDA	VI	03 12 03 11.9	37.20N	28.05E	7	2.8		
CSEM	VI	03 12 03 11.8–.55	37.18N	28.08E	1	2.4		
ISK	VI	03 12 03 11.3	37.25N	28.19E	5	2.4		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=10.4km s-min=3.9km az=142.4.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=13.3km s-min=4.8km az=50.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**03 12 04 52.3–.80**	**40.12N–.03**	**27.72E–.02**	**0**		**44**	**0-1**
DDA	VI	03 12 04 53.0	40.16N	27.70E	16	2.4		¶17555405
ISCJB	VI	03 12 04 53.1–.42	40.18N–.03	27.70E–.04	0	2.4		
CSEM	VI	03 12 04 53.3–.15	40.18N	27.70E	1	2.4		
ISK	VI	03 12 04 53.0	40.19N	27.69E	8	2.6		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.1km az=138.2.
CSEM Event type sm. Error ellipse: s-maj=3.8km s-min=2.7km az=38.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**03 13 18 55.3–.85**	**37.39N–.03**	**28.02E–.04**	**0**		**32**	**0-1**
ISK	VI	03 13 18 55.8	37.37N	28.11E	14	2.6		¶17555409
ISCJB	VI	03 13 18 56.2–.50	37.37N–.03	28.09E–.04	0	2.6		
CSEM	VI	03 13 18 56.3–.25	37.38N	28.11E	1	2.6		
DDA	VI	03 13 18 57.0	37.43N	28.10E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.9km s-min=3.3km az=140.4.
CSEM Event type sm. Error ellipse: s-maj=7.0km s-min=4.3km az=52.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

NAO	**VI**	**03 15 15 22.3–1.4**	**67.66N**	**33.74E**		**4.5L**		
CSEM	VI	03 15 15 22.4–.59	67.68N	33.65E	1	2.8L		¶603247095

CSEM Event type sm. Error ellipse: s-maj=14.1km s-min=4.9km az=89.0. Suspected Mining explosion.

(536) Sweden

ISC	**VI**	**03 17 01 39.9–1.1**	**67.08N–.05**	**20.73E–.08**	**0**		**13**	**1-7**
ISCJB	VI	03 17 01 39.8–.88	67.03N–.04	21.0E–.20	0			¶17205108
HEL	VI	03 17 01 41.5–.50	67.07N	20.90E	0	2.3L		
IDC	VI	03 17 01 41.7–.99	67.05N	21.12E	0	2.9,2.8		

ISC Event type kh.
ISCJB Event type kh. Error ellipse: s-maj=10.2km s-min=5.5km az=1.7.
HEL Event type kh. Error ellipse: s-maj=2.1km s-min=3.8km az=-1.0. Explosion.
IDC Error ellipse: s-maj=17.7km s-min=8.6km az=114.0.

(548) Poland

ISC	**VI**	**03 17 49 37.5–.81**	**50.27N–.04**	**18.83E–.02**	**0**		**56**	**0-4**
ISCJB	VI	03 17 49 35.8–.55	50.39N–.04	18.82E–.03	0			¶16558726
WAR	VI	03 17 49 37.8	50.35N	18.92E	1	2.5W		
CSEM	VI	03 17 49 37.0–.32	50.37N	18.85E	2	2.5L		
PRU	VI	03 17 49 38.1	50.35N	18.82E	0	2.5L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.6km s-min=2.5km az=19.0.
CSEM Event type ki. Error ellipse: s-maj=7.4km s-min=3.2km az=12.0.
PRU Event type ki.

(548) Poland

ISC	**VI**	**04 03 26 06.5–.85**	**50.11N–.04**	**18.41E–.02**	**0**		**42**	**0-3**
ISCJB	VI	04 03 26 05.4–.56	50.12N–.04	18.39E–.03	0			¶16558730
IPEC	VI	04 03 26 06.9–.17	50.08N	18.46E	1–2	1.5L		

CSEM VI 04 03 26 06.6–.28 50.09N 18.40E 2 2.5L
PRU VI 04 03 26 07.8 50.08N 18.39E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.7km az=10.8.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=6.1km s-min=3.0km az=6.0.
PRU Event type ki.
(548) Poland
ISC VI 04 03 37 02.6–.79 51.53N–.03 16.11E–.02 0 82 1-11
ISCJB VI 04 03 37 01.6–.52 51.46N–.03 16.15E–.03 0 **¶16558731**
CSEM VI 04 03 37 04.0–.45 51.44N 16.08E 2 3.3L
IDC VI 04 03 37 04.2–.82 51.47N 15.99E 0 3.1,3.0
VIE VI 04 03 37 07.1–.86 51.25N 16.30E 0 2.7L,2.2b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=2.6km az=11.8.
CSEM Event type ki. Error ellipse: s-maj=7.6km s-min=3.9km az=1.0.
IDC Error ellipse: s-maj=13.5km s-min=7.8km az=112.0.
VIE Event type sr. Error ellipse: s-maj=6.6km s-min=5.5km az=94.0. Suspected Mining induced.
(536) Sweden
HEL VI 04 23 23 13.0–.10 67.85N 20.14E 0 1.6L,1.0L
UPP VI 04 23 23 12.2 67.83N 20.20E 0 1.0L,1.0L **¶602728863**
CSEM VI 04 23 23 12.2–.30 67.84N 20.25E 2 1.0L,1.0L
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=1.1km az=-1.0. Explosion.
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=7.4km s-min=5.9km az=167.0. Mining explosion.
(536) Sweden
CSEM VI 04 23 23 17.3–.97 68.17N 20.30E 1 0.9L
UPP VI 04 23 23 20.2 67.82N 20.33E 1 0.9L **¶601481278**
CSEM Event type km. Error ellipse: s-maj=31.0km s-min=13.6km az=147.0. Mining explosion.
UPP Event type km. Mining explosion.
(536) Sweden
ISC VI 05 04 19 07.4–.90 67.79N–.03 20.28E–.03 0 32 0-8
ISCJB VI 05 04 19 07.1–.58 67.78N–.03 20.36E–.09 0 **¶17205277**
UPP VI 05 04 19 07.5 67.84N 20.20E 0 0.8L
CSEM VI 05 04 19 07.1–.14 67.78N 20.26E 2 0.8L
HEL VI 05 04 19 08.2–.10 67.83N 20.19E 0 2.1L,0.8L
IDC VI 05 04 19 11.4–1.4 67.84N 21.10E 0 2.8,2.7
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.2km s-min=4.5km az=173.1.
UPP Event type sm. Suspected Mining explosion.
CSEM Event type km. Error ellipse: s-maj=3.3km s-min=2.8km az=176.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=0.8km az=-1.0. Explosion.
IDC Error ellipse: s-maj=23.5km s-min=8.3km az=118.0.
(366) Turkey
ISC VI 05 08 00 52.3–.81 37.31N–.04 28.23E–.03 0 36 0-1
ISCJB VI 05 08 00 52.8–.45 37.24N–.03 28.19E–.04 0 **¶17555509**
DDA VI 05 08 00 52.7 37.23N 28.21E 7 2.8
ISK VI 05 08 00 52.4 37.23N 28.17E 8 2.7
CSEM VI 05 08 00 52.9–.19 37.26N 28.22E 1 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.5km s-min=3.0km az=41.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.3km s-min=3.3km az=41.0. Suspected Mining explosion.
(366) Turkey
ISC VI 05 08 47 50.9–.91 37.30N–.04 28.23E–.03 0 26 0-1
ISCJB VI 05 08 47 51.9–.53 37.21N–.03 28.18E–.03 0 **¶17555510**
DDA VI 05 08 47 52.0 37.22N 28.17E 7 2.6
CSEM VI 05 08 47 51.8–.21 37.23N 28.20E 1 2.5
ISK VI 05 08 47 51.1 37.23N 28.19E 8 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.2km s-min=3.6km az=19.6.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.3km s-min=3.6km az=24.0. Suspected Mining explosion.
(366) Turkey
ISC VI 05 09 10 36.4–.86 37.17N–.04 28.03E–.04 0 28 0-1
ISK VI 05 09 10 37.6 37.21N 28.12E 5 2.5 **¶17555511**
ISCJB VI 05 09 10 38.6–.53 37.22N–.03 28.16E–.04 0 2.5
DDA VI 05 09 10 38.5 37.21N 28.15E 7 2.7
CSEM VI 05 09 10 38.9–.19 37.22N 28.16E 1 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=3.3km az=136.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.8km s-min=3.1km az=45.0. Suspected Mining explosion.
(366) Turkey
ISC VI 05 14 55 48.0–.91 37.33N–.04 28.28E–.04 0 28 0-1
ISK VI 05 14 55 47.7 37.26N 28.17E 5 2.5 **¶17555530**
ISCJB VI 05 14 55 49.1–.56 37.26N–.03 28.22E–.04 0 2.5
CSEM VI 05 14 55 49.4–.23 37.26N 28.21E 2 2.5
DDA VI 05 14 55 49.0 37.22N 28.23E 7 2.4
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=3.5km az=39.3.
CSEM Event type sm. Error ellipse: s-maj=5.6km s-min=4.0km az=40.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
ISC VI 05 23 31 42.9–.82 50.16N–.04 19.06E–.02 0 42 0-3
ISCJB VI 05 23 31 42.2–.51 50.18N–.03 18.98E–.03 0 **¶16558763**
IPEC VI 05 23 31 42.7–.22 50.25N 19.08E 0–2 1.5L
CSEM VI 05 23 31 43.1–.21 50.19N 19.04E 2 2.5L
PRU VI 05 23 31 43.4 50.22N 19.05E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=2.8km az=10.4.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=1.1km az=169.0.
CSEM Event type ki. Error ellipse: s-maj=4.9km s-min=3.0km az=13.0.
PRU Event type ki.
(366) Turkey
ISC VI 06 05 40 55.7–.81 37.22N–.03 28.04E–.04 0 30 0-1
ISK VI 06 05 40 56.4 37.24N 28.19E 3 2.5 **¶17555564**
ISCJB VI 06 05 40 57.3–.50 37.23N–.03 28.19E–.03 0 2.5
CSEM VI 06 05 40 57.4–.22 37.23N 28.17E 1 2.5
DDA VI 06 05 40 57.2 37.22N 28.18E 7 2.7
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.3km az=30.5.
CSEM Event type sm. Error ellipse: s-maj=5.2km s-min=3.9km az=29.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
ISC VI 06 08 58 07.5–.87 50.27N–.04 18.81E–.02 0 30 0-2
ISCJB VI 06 08 58 06.4–.58 50.28N–.04 18.76E–.03 0 **¶16580594**
PRU VI 06 08 58 07.6 50.28N 18.79E 0
CSEM VI 06 08 58 07.2–.16 50.28N 18.79E 2 0.2L
WAR VI 06 08 58 08.2 50.24N 18.83E 1 2.0W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.1km s-min=3.2km az=178.8.
PRU Event type ki.
CSEM Event type ki.
(547) Czech and Slovak Republics
ISC VI 06 13 57 24.4–.84 49.79N–.04 18.48E–.02 0 38 0-3
ISCJB VI 06 13 57 23.2–.53 49.81N–.04 18.44E–.03 0 **¶16580596**
IPEC VI 06 13 57 24.6–.19 49.82N 18.51E 0 1.4L
CSEM VI 06 13 57 24.1–.21 49.80N 18.48E 1 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.5km s-min=3.0km az=11.6.
IPEC Event type ki. Error ellipse: s-maj=3.7km s-min=1.1km az=159.0.
CSEM Event type ki. Error ellipse: s-maj=4.9km s-min=2.9km az=7.0.
(548) Poland
PRU VI 06 20 21 06.8 50.26N 19.01E 0
¶16580603

PRU Event type ki.
(536) Sweden
HEL VI 06 23 22 46.0 67.77N 19.89E 0 1.6L
CSEM VI 06 23 22 47.1–.37 67.78N 20.32E 5 0.8L **¶602728899**
UPP VI 06 23 22 48.2 67.83N 20.21E 0 0.8L
HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=8.7km s-min=7.3km az=3.0. Mining explosion.
UPP Event type km. Mining explosion.
(536) Sweden
CSEM VI 06 23 22 52.7–.86 67.65N 21.30E 1 1.1L
UPP VI 06 23 22 58.9 67.80N 20.39E 0 1.1L **¶601481331**
CSEM Event type sm. Error ellipse: s-maj=27.9km s-min=16.9km az=4.0. Suspected Mining explosion.
UPP Event type sm. Suspected Mining explosion.
(543) Germany
ISC VI 07 00 10 42.7–.74 51.52N–.02 6.48E–.02 0 182 0-6
LDG VI 07 00 10 43.9–.22 51.57N 6.49E 1 3.0,2.5L **¶16581025**
ISCJB VI 07 00 10 43.5–.35 51.48N–.02 6.47E–.03 0 3.0,2.5L
CSEM VI 07 00 10 43.9–.22 51.51N 6.46E 1 2.6L,2.5L
BUG VI 07 00 10 44.8 51.59N 6.61E 1 1.8L,2.5L
BNS VI 07 00 10 44.9–1.0 51.52N 6.51E 1 1.4L,2.5L
BGR VI 07 00 10 45.2–.25 51.49N 6.57E 1 2.1L,2.5L
UCC VI 07 00 10 45.6 51.45N 6.60E 10 2.0L,2.5L
ISC Event type ki.
LDG Event type sr. Error ellipse: s-maj=3.7km s-min=2.6km az=7.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=2.8km s-min=2.2km az=148.1.
CSEM Event type ki. Error ellipse: s-maj=4.2km s-min=3.3km az=144.0.
GDNRW Event type fi.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=123.0.
UCC Event type si.
(536) Sweden
ISC VI 07 17 40 27.5–.95 61.59N–.05 15.76E–.04 0 28 2-9
ISCJB VI 07 17 40 27.2–.58 61.59N–.05 15.77E–.07 0 **¶17205502**
IDC VI 07 17 40 28.3–.77 61.62N 15.62E 0 2.8,2.7
HEL VI 07 17 40 29.2–.20 61.57N 15.72E 0 1.9L,2.7
ISC Event type kh.
ISCJB Event type kh. Error ellipse: s-maj=7.3km s-min=4.0km az=151.7.
IDC Error ellipse: s-maj=11.1km s-min=5.5km az=143.0.
HEL Event type kh. Error ellipse: s-maj=1.0km s-min=1.0km az=-1.0. Explosion.
(536) Sweden
UPP VI 07 23 19 46.3–.10 67.83N 20.20E 0 1.5L
HEL VI 07 23 19 46.6–.30 67.84N 20.28E 0 1.8L,1.5L **¶600889092**
CSEM VI 07 23 19 46.3 67.83N 20.20E 0 1.5L,1.5L
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=1.7km s-min=2.1km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.
(548) Poland
ISC VI 08 09 39 28.5–.55 51.60N–.03 16.14E–.02 0 242 1-60
ISCJB VI 08 09 39 26.9–.23 51.58N–.01 16.19E–.02 0 3.6b **¶16580621**
CSEM VI 08 09 39 29.2–.12 51.56N 16.15E 2 4.3L,3.7s
BGR VI 08 09 39 30.5–.53 51.49N 16.14E 1 3.8L,3.7s
IDC VI 08 09 39 30.3–.61 51.51N 16.00E 0 3.6,3.5
WAR VI 08 09 39 30.4 51.53N 16.14E 1 3.3W,3.5
PRU VI 08 09 39 30.5 51.51N 16.14E 0 3.3W,3.5
LDG VI 08 09 39 31.2–.17 51.36N 16.06E 1 4.2L,3.5
VIE VI 08 09 39 33.0–1.1 51.29N 15.98E 0 3.7s,3.3L
UPP VI 08 09 39 34.0–2.8 51.84N 15.71E 0 2.6L,3.3L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.1km s-min=2.0km az=23.2.
CSEM Event type ki. Error ellipse: s-maj=2.6km s-min=2.3km az=74.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=15.0.
IDC Error ellipse: s-maj=10.1km s-min=5.8km az=98.0.
PRU Event type ki.
LDG Event type sr. Error ellipse: s-maj=4.2km s-min=2.0km az=12.0. Suspected Mining induced.
VIE Event type sr. Error ellipse: s-maj=6.7km s-min=5.1km az=25.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
(548) Poland
ISC VI 08 12 11 20.6–1.6 51.44N–.06 16.04E–.03 0–12 32 1-3
WAR VI 08 12 11 19.3 51.53N 16.14E 1 2.2W **¶603802224**
ISC Event type ke.
(366) Turkey
ISC VI 08 13 18 49.1–.92 41.02N–.03 36.00E–.03 0 22 0-1
ISK VI 08 13 18 48.4 41.07N 35.94E 8 2.0L **¶17555692**
ISCJB VI 08 13 18 49.0–.65 40.99N–.04 36.01E–.05 0 2.0L
CSEM VI 08 13 18 49.0–.57 41.04N 36.00E 1 2.0L
DDA VI 08 13 18 49.9 40.96N 36.02E 7 2.5
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.8km s-min=5.0km az=32.7.
CSEM Event type sm. Error ellipse: s-maj=21.0km s-min=12.5km az=27.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(536) Sweden
ISC VI 08 17 00 35.5–.77 67.07N–.02 20.85E–.03 0 82 1-8
ISCJB VI 08 17 00 35.0–.40 67.06N–.02 20.94E–.08 0 **¶16596645**
CSEM VI 08 17 00 35.7–.27 67.09N 20.95E 1 2.1L
HEL VI 08 17 00 36.6–.10 67.06N 20.91E 0 2.2L,2.1L
NAO VI 08 17 00 36.1–1.0 67.10N 20.95E 2.5L,2.1L
UPP VI 08 17 00 36.0–.20 67.06N 20.96E 0 2.1L,2.1L
IDC VI 08 17 00 37.1–.92 67.01N 21.11E 0 2.7,2.7
BER VI 08 17 00 38.1–3.2 67.10N 20.77E 0 2.5L,2.7
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=4.5km s-min=3.1km az=7.6.
CSEM Event type km. Error ellipse: s-maj=7.1km s-min=5.3km az=105.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.8km s-min=0.9km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=18.1km s-min=7.1km az=112.0.
BER Event type sh. Error ellipse: s-maj=6.7km s-min=35.3km az=-1.0. Suspected explosion.
(724) Baltic States-Belarus-Northwestern Russia
ISC VI 09 09 44 53.0–1.1 64.75N–.03 31.12E–.06 0 62 1-10
IDC VI 09 09 44 44.9–3.4 64.53N 34.26E 0 3.0,3.0 **¶16596648**
NAO VI 09 09 44 54.8–1.7 64.66N 30.85E 2.0L,3.0
CSEM VI 09 09 44 55.5–.56 64.72N 30.36E 2 1.9L,3.0
HEL VI 09 09 44 55.0–.20 64.69N 30.58E 0 1.9L,3.0
BER VI 09 09 44 57.0–3.2 64.67N 30.33E 0 2.0L,3.0
ISC Event type km.
IDC Error ellipse: s-maj=39.9km s-min=11.1km az=108.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type km. Error ellipse: s-maj=17.7km s-min=8.3km az=98.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=8.1km s-min=42.2km az=-1.0. Suspected explosion.
(329) Eastern Kazakhstan
NNC VI 09 10 22 55.5–2.2 51.94N 75.91E 0 3.5b,3.1
¶601218376
NNC Event type sm. Error ellipse: s-maj=60.3km s-min=11.5km az=27.0. Suspected Mining explosion.
(536) Sweden
ISC VI 09 10 23 39.3–.79 58.98N–.03 18.23E–.03 0 71 1-11
ISCJB VI 09 10 23 39.4–.48 59.01N–.03 18.18E–.06 0 **¶16580462**
CSEM VI 09 10 23 40.3–.21 59.01N 18.14E 2 1.8L
UPP VI 09 10 23 40.0–.10 58.99N 18.21E 0 1.8L
HEL VI 09 10 23 41.1–.10 59.00N 18.17E 0 2.0L,1.8L
IDC VI 09 10 23 42.6–2.7 59.08N 18.18E 0 3.3,3.1
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.8km s-min=3.7km az=139.0.
CSEM Event type km. Error ellipse: s-maj=5.6km s-min=3.6km az=120.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0. Explosion.
IDC Error ellipse: s-maj=32.3km s-min=9.1km az=180.0.
(548) Poland

ISC VI 09 12 24 08.8–.80 49.95N–.03 18.54E–.02 0 52 0-3
ISCJB VI 09 12 24 07.8–.49 50.02N–.04 18.51E–.03 0 ¶16593324
IPEC VI 09 12 24 08.8–.17 49.98N 18.64E 2–5 1.7L
CSEM VI 09 12 24 08.8–.32 50.00N 18.55E 2 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.5km az=12.0.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=8.4km s-min=3.7km az=5.0.

(548) Poland

ISC VI 09 13 09 20.1–.78 51.49N–.04 16.19E–.02 0 83 1-19
ISCJB VI 09 13 09 19.6–.63 51.42N–.03 16.24E–.03 0 ¶16593326
CSEM VI 09 13 09 21.5–.36 51.41N 16.19E 2 3.5L
IDC VI 09 13 09 22.3–1.3 51.45N 16.09E 0 3.6,3.4
WAR VI 09 13 09 22.2 51.44N 16.19E 1 2.8W,3.4
PRU VI 09 13 09 22.7 51.40N 16.18E 0 2.8W,3.4
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.0km s-min=2.5km az=6.9.
CSEM Event type ki. Error ellipse: s-maj=6.2km s-min=2.8km az=2.0.
IDC Error ellipse: s-maj=42.9km s-min=10.6km az=117.0.
PRU Event type ki.

(366) Turkey

ISC VI 09 14 24 58.4–.83 41.37N–.05 32.83E–.02 0 27 0-2
ISCJB VI 09 14 24 58.9–.53 41.25N–.05 32.88E–.03 0 ¶17555738
DDA VI 09 14 24 58.7 41.26N 32.86E 7 2.8
CSEM VI 09 14 24 58.8–.31 41.25N 32.83E 2 2.8
ISK VI 09 14 24 58.1 41.15N 32.67E 16 2.2L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.2km s-min=3.4km az=1.5.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=10.4km s-min=5.5km az=5.0. Suspected Mining explosion.

(536) Sweden

ISC VI 09 17 01 10.4–.73 67.10N–.02 20.94E–.03 0 89 1-11
ISCJB VI 09 17 01 09.4–.40 67.09N–.02 21.08E–.07 0 ¶16596650
HEL VI 09 17 01 11.0–.30 67.11N 20.92E 0 2.4L
CSEM VI 09 17 01 11.6–.23 67.10N 21.21E 2 2.4L
NAO VI 09 17 01 12.0–.90 67.11N 21.41E 2.5L
IDC VI 09 17 01 12.0–.81 67.04N 21.38E 0 3.0,3.0
BER VI 09 17 01 13.9–3.1 67.14N 21.00E 0 2.5L,1.6L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.9km s-min=2.8km az=0.5.
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=7.2km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=5.9km s-min=4.6km az=109.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
IDC Error ellipse: s-maj=20.5km s-min=8.5km az=111.0.
BER Event type sh. Error ellipse: s-maj=5.5km s-min=20.2km az=-1.0. Suspected explosion.

(548) Poland

ISC VI 09 18 04 19.4–.80 50.06N–.04 18.43E–.02 0 48 0-3
ISCJB VI 09 18 04 18.3–.50 50.10N–.03 18.36E–.03 0 ¶16593334
IPEC VI 09 18 04 19.4–.17 50.04N 18.49E 2–2 1.9L
CSEM VI 09 18 04 19.5–.30 50.06N 18.41E 1 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.0km s-min=2.6km az=10.5.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=3.7km az=9.0.

(460) Wyoming

ISC VI 09 18 12 16.8–.93 43.53N–.04 105.36W–.04 0 23 1-14
ISCJB VI 09 18 12 17.7–.66 43.50N–.06 105.25W–.07 0 ¶17205650
IDC VI 09 18 12 17.4–1.6 43.69N 105.60W 0 3.7,3.5
NEIC VI 09 18 12 18.5–.65 43.52N 105.22W 0 3.1L,3.5
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=9.8km s-min=6.7km az=24.4.
IDC Error ellipse: s-maj=32.2km s-min=10.1km az=150.0.
NEIC Event type fm. Error ellipse: s-maj=9.9km s-min=7.5km az=171.0. 85 km [53 miles] N of Douglas. Suspected Mining explosion.

(548) Poland

PRU VI 09 20 09 57.9 50.24N 19.29E 0
CSEM VI 09 20 09 57.4–.43 50.22N 19.29E 1 ¶16593337
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=11.5km s-min=5.7km az=179.0.

(548) Poland

PRU VI 09 20 10 42.6 50.13N 19.16E 0
CSEM VI 09 20 10 41.6–.34 50.15N 19.15E 1 ¶16593340
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.1km s-min=4.9km az=179.0.

(536) Sweden

UPP VI 10 13 19 52.2 57.77N 12.14E 0 1.4L
CSEM VI 10 13 19 52.2 57.77N 12.14E 0 1.4L ¶16596658
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(546) Austria

VIE VI 10 13 50 30.3–.58 47.06N 15.05E 0 1.1L,0.8b
CSEM VI 10 13 50 30.3 47.06N 15.05E 0 1.1L,0.8b ¶602729080
VIE Event type sm. Error ellipse: s-maj=5.1km s-min=3.9km az=154.0. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(548) Poland

ISC VI 10 19 44 55.7–.80 50.20N–.03 19.03E–.02 0 50 0-4
ISCJB VI 10 19 44 54.6–.50 50.23N–.03 18.95E–.03 0 ¶16593368
PRU VI 10 19 44 55.9 50.23N 18.96E 0
CSEM VI 10 19 44 55.4–.28 50.23N 18.99E 2 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=2.7km az=13.0.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.9km s-min=3.7km az=12.0.

(547) Czech and Slovak Republics

PRU VI 10 19 53 42.1 49.79N 18.49E 0
¶603482762
PRU Event type ki.

(543) Germany

ISC VI 10 19 54 01.0–.76 51.52N–.02 6.41E–.02 0 129 0-6
CSEM VI 10 19 54 01.9–.23 51.52N 6.42E 1 2.7L ¶16617335
LDG VI 10 19 54 01.7–.23 51.60N 6.51E 1 3.0,2.8L
ISCJB VI 10 19 54 01.0–.43 51.51N–.02 6.38E–.04 0 3.0,2.8L
BNS VI 10 19 54 02.9–1.1 51.53N 6.53E 1 1.8L,2.8L
BGR VI 10 19 54 03.3–.35 51.51N 6.51E 1 2.2L,2.8L
BUG VI 10 19 54 03.2 51.47N 6.58E 1 1.8L,2.8L
STR VI 10 19 54 09.3–.65 51.25N 7.95E 10 2.0L,2.8L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=3.2km az=127.0.
LDG Event type sr. Error ellipse: s-maj=3.9km s-min=2.7km az=2.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=3.9km s-min=2.5km az=34.2.
BNS Event type ki.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=2.2km az=119.0.
GDNRW Event type fi.
STR Event type ke.

(536) Sweden

UPP VI 10 23 18 52.5 67.83N 20.21E 0 0.8L
HEL VI 10 23 18 52.5 67.79N 20.14E 0 1.6L ¶602729075
CSEM VI 10 23 18 52.3–.17 67.80N 20.25E 0–4 0.8L
UPP Event type km. Mining explosion.
HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.2km s-min=3.3km az=153.0. Mining explosion.

(548) Poland

ISC VI 10 23 48 33.6–1.1 51.56N–.05 16.08E–.02 0 67 1-4
ISCJB VI 10 23 48 33.1–.69 51.48N–.03 16.07E–.04 0 ¶16593376
CSEM VI 10 23 48 34.5–.40 51.50N 16.06E 2 2.9L
PRU VI 10 23 48 35.0 51.51N 16.07E 0 2.9L
VIE VI 10 23 48 35.6–.85 51.38N 16.00E 0 2.3L,2.0b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.8km s-min=3.1km az=12.7.
CSEM Event type ki. Error ellipse: s-maj=6.7km s-min=3.9km az=179.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=6.4km s-min=3.3km az=22.0. Suspected Mining induced.

(547) Czech and Slovak Republics

ISC VI 11 13 35 53.8–.76 49.86N–.03 18.48E–.02 0 60 0-4
ISCJB VI 11 13 35 52.9–.43 49.88N–.04 18.37E–.03 0 ¶16593389
IPEC VI 11 13 35 53.5–.18 49.84N 18.55E 2–3 1.7L
CSEM VI 11 13 35 54.0–.22 49.87N 18.41E 2 2.7L
PRU VI 11 13 35 55.1 49.86N 18.41E 0 2.7L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.4km az=12.1.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.6km s-min=2.9km az=10.0.
PRU Event type ki.

(548) Poland

ISC VI 11 15 44 04.4–.66 51.56N–.03 16.09E–.02 0 128 1-19
ISCJB VI 11 15 44 02.8–.28 51.54N–.02 16.13E–.03 0 ¶16593395
CSEM VI 11 15 44 04.7–.14 51.52N 16.08E 2 3.5L
IDC VI 11 15 44 06.5–.91 51.45N 16.09E 0 3.4,3.3
WAR VI 11 15 44 06.3 51.49N 16.09E 1 2.8W,3.3
VIE VI 11 15 44 09.6–.68 51.19N 16.30E 0 2.9L,2.4b
UPP VI 11 15 44 09.3–3.3 51.77N 15.44E 0 1.9L,2.4b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.6km s-min=2.3km az=154.1.
CSEM Event type ki. Error ellipse: s-maj=3.7km s-min=2.5km az=84.0.
IDC Error ellipse: s-maj=16.8km s-min=8.0km az=110.0.
VIE Event type sr. Error ellipse: s-maj=7.2km s-min=5.0km az=112.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.2km az=-1.0. Suspected explosion.

(460) Wyoming

ISC VI 11 18 02 29.5–.92 43.73N–.06 105.22W–.07 0 3.8b 32 1-82
ISCJB VI 11 18 02 28.5–.43 43.72N–.04 105.19W–.06 0 4.0b ¶17205787
IDC VI 11 18 02 29.1–1.9 43.63N 105.40W 0 3.9,3.9b
NEIC VI 11 18 02 30.2–.40 43.70N 105.20W 0 3.3L,3.9b
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=6.7km s-min=5.4km az=147.6.
IDC Error ellipse: s-maj=55.3km s-min=7.3km az=149.0.
NEIC Event type fm. Error ellipse: s-maj=6.8km s-min=5.2km az=146.0. 72 km [45 miles] SSE of Gillette. Suspected Mining explosion.

(536) Sweden

HEL VI 12 19 33 18.8–.10 67.85N 20.19E 0 1.0L,0.8L
CSEM VI 12 19 33 17.9–.29 67.85N 20.26E 1 0.8L,0.8L ¶601481535
UPP VI 12 19 33 18.2 67.86N 20.19E 0 0.8L,0.8L
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.4km s-min=6.0km az=146.0. Mining explosion.
UPP Event type sm. Suspected Mining explosion.

(536) Sweden

HEL VI 12 23 23 16.8 67.79N 20.05E 0
CSEM VI 12 23 23 17.4–.15 67.82N 20.23E 2 0.9L ¶602729123
UPP VI 12 23 23 17.7 67.83N 20.20E 0 0.9L
HEL Event type kh. Explosion.
CSEM Event type km. Error ellipse: s-maj=4.3km s-min=2.7km az=175.0. Mining explosion.
UPP Event type km. Mining explosion.

(547) Czech and Slovak Republics

PRU VI 13 00 55 20.2 49.84N 18.54E 0
IPEC VI 13 00 55 19.5–.18 49.83N 18.58E 0–3 0.9L ¶16613917
CSEM VI 13 00 55 19.4–.37 49.85N 18.54E 1 1.7L
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=10.1km s-min=5.3km az=163.0.

(548) Poland

ISC VI 13 08 40 15.7–.81 50.21N–.04 18.76E–.02 0 45 0-4
ISCJB VI 13 08 40 15.3–.52 50.27N–.04 18.73E–.03 0 ¶16613924
IPEC VI 13 08 40 15.8–.19 50.30N 18.79E 0 1.5L
CSEM VI 13 08 40 15.6–.23 50.29N 18.77E 2 2.7L
PRU VI 13 08 40 16.8 50.26N 18.75E 0 2.7L
WAR VI 13 08 40 16.3 50.26N 18.82E 1 2.5W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.7km az=1.1.
IPEC Event type ki. Error ellipse: s-maj=2.3km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=5.6km s-min=2.9km az=3.0.
PRU Event type ki.

(366) Turkey

ISC VI 13 11 21 43.6–.87 41.45N–.04 35.87E–.02 0 60 0-3
ISK VI 13 11 21 43.9 41.36N 35.83E 5 2.5L ¶17555916
ISCJB VI 13 11 21 44.8–.49 41.41N–.03 35.85E–.03 0 2.5L
DDA VI 13 11 21 44.3 41.39N 35.86E 21 2.8
CSEM VI 13 11 21 45.2–.25 41.38N 35.83E 2 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.1km az=8.3.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.7km s-min=4.1km az=17.0. Suspected Mining explosion.

(460) Wyoming

ISC VI 13 16 46 44.7–.00 43.39N–.05 105.57W–.05 0 21 1-10
ISCJB VI 13 16 46 45.9–1.1 43.54N–.08 105.74W–.09 0 ¶17206058
IDC VI 13 16 46 45.8–2.1 43.35N 105.57W 0 3.7,3.5
NEIC VI 13 16 46 47.4–1.1 43.49N 105.69W 0 3.0L,3.5
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=12.7km s-min=7.3km az=36.7.
IDC Error ellipse: s-maj=48.2km s-min=8.9km az=154.0.
NEIC Event type fm. Error ellipse: s-maj=15.3km s-min=7.7km az=219.0. 49 km [30 miles] E of Midwest. Suspected Mining explosion.

(548) Poland

ISC VI 13 22 50 40.9–.74 50.17N–.03 18.95E–.02 0 104 0-5
ISCJB VI 13 22 50 39.8–.33 50.20N–.02 18.90E–.02 0 ¶16613938
IPEC VI 13 22 50 40.8–.18 50.21N 19.02E 0 2.1L
CSEM VI 13 22 50 41.1–.20 50.22N 18.96E 2 3.0L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.5km s-min=2.0km az=15.0.
IPEC Event type ki. Error ellipse: s-maj=2.6km s-min=1.1km az=166.0.
CSEM Event type ki. Error ellipse: s-maj=5.2km s-min=2.6km az=11.0.

(548) Poland

ISC VI 14 01 09 53.0–.82 50.20N–.04 18.76E–.02 0 52 0-4
ISCJB VI 14 01 09 52.1–.53 50.24N–.04 18.71E–.03 0 ¶16614292
CSEM VI 14 01 09 52.8–.34 50.28N 18.73E 2 2.5L
IPEC VI 14 01 09 53.2–.24 50.31N 18.76E 0–2 1.6L
PRU VI 14 01 09 53.8 50.25N 18.73E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.3km s-min=2.7km az=8.1.
CSEM Event type ki. Error ellipse: s-maj=8.3km s-min=3.9km az=5.0.
IPEC Event type ki. Error ellipse: s-maj=2.5km s-min=1.1km az=168.0.
PRU Event type ki.

(548) Poland

ISC VI 14 02 40 16.9–1.1 51.52N–.05 16.04E–.02 0 69 1-4
ISCJB VI 14 02 40 15.5–.71 51.49N–.03 16.08E–.04 0 ¶16614296
CSEM VI 14 02 40 17.1–.40 51.49N 16.07E 2 2.8L
WAR VI 14 02 40 17.1 51.54N 16.08E 1 2.2W
PRU VI 14 02 40 18.0 51.49N 16.05E 0 2.2W
VIE VI 14 02 40 23.0–2.3 50.99N 15.70E 0 2.1b,1.8L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.1km s-min=3.1km az=13.4.
CSEM Event type ki.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=15.6km s-min=7.9km az=15.0. Suspected Mining induced.

(548) Poland

ISC VI 14 04 04 15.4–.83 51.58N–.03 16.14E–.02 0 96 1-5
VIE VI 14 04 04 04.8–1.2 51.60N 15.25E 0 2.9b,2.8L ¶16614300
IPEC VI 14 04 04 14.9–.39 51.62N 16.23E 0–1 2.3L,2.8L
ISCJB VI 14 04 04 14.6–.53 51.51N–.03 16.18E–.03 0 2.3L,2.8L
CSEM VI 14 04 04 16.0–.30 51.53N 16.12E 2 3.5L,2.8L

WAR VI 14 04 04 17.2 51.53N 16.17E 1 2.7W,2.8L
PRU VI 14 04 04 17.5 51.51N 16.13E 0 2.7W,2.8L
ISC Event type sr.
VIE Event type sr. Error ellipse: s-maj=6.4km s-min=3.9km az=1.0. Suspected Mining induced.
IPEC Event type ki. Error ellipse: s-maj=3.4km s-min=2.1km az=64.0.
ISCJB Event type sr. Error ellipse: s-maj=4.1km s-min=2.5km az=13.3.
CSEM Event type ki. Error ellipse: s-maj=5.1km s-min=3.6km az=6.0.
PRU Event type ki.

(329) Eastern Kazakhstan

ISC VI 14 07 32 37.1–3.8 49.97N–.05 78.0E–.30 0 11 1-6
NNC VI 14 07 32 40.3–3.9 50.18N 79.27E 0 3.1b,3.0 **¶17206094**
IDC VI 14 07 32 43.4–3.8 50.11N 79.03E 0 2.7,2.7
ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=82.2km s-min=19.8km az=49.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=45.4km s-min=17.0km az=91.0.

(366) Turkey

ISC VI 14 08 51 07.4–.89 37.25N–.04 28.16E–.03 0 25 1-2
ISCJB VI 14 08 51 07.7–.58 37.28N–.04 28.18E–.04 0 **¶17555933**
DDA VI 14 08 51 07.5 37.25N 28.21E 7 2.8
ISK VI 14 08 51 07.8 37.29N 28.17E 9 2.6
CSEM VI 14 08 51 08.0–.19 37.30N 28.17E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.7km s-min=4.4km az=15.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.9km s-min=3.9km az=14.0. Suspected Mining explosion.

(329) Eastern Kazakhstan

NNC VI 14 09 26 41.9–1.1 51.91N 75.53E 0 3.5b,3.1 ¶17221783
NNC Event type sm. Error ellipse: s-maj=19.1km s-min=6.9km az=23.0. Suspected Mining explosion.

(366) Turkey

ISC VI 14 09 27 27.7–.85 41.64N–.03 34.90E–.03 0 36 0-2
ISK VI 14 09 27 26.3 41.61N 34.92E 5 2.7 **¶17555935**
ISCJB VI 14 09 27 27.8–.58 41.63N–.03 34.91E–.05 0 2.7
CSEM VI 14 09 27 27.7–.33 41.62N 34.88E 2 2.8
DDA VI 14 09 27 29.3 41.48N 34.82E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.6km s-min=4.2km az=22.3.
CSEM Event type sm. Error ellipse: s-maj=7.2km s-min=6.2km az=120.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC VI 14 09 52 26.1–.76 37.25N–.02 28.17E–.02 0 68 0-2
CSEM VI 14 09 52 25.9–.18 37.27N 28.19E 1 2.7 **¶16883031**
ISK VI 14 09 52 25.4 37.25N 28.18E 11 2.7
DDA VI 14 09 52 26.9 37.24N 28.17E 9 2.7
THE VI 14 09 52 26.3 37.23N 28.14E 0–1 2.0L
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=4.3km s-min=3.5km az=16.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=186.0.

(548) Poland

PRU VI 14 14 12 38.8 51.38N 16.19E 0
WAR VI 14 14 12 36.3 51.48N 16.11E 1 **¶16614308**
CSEM VI 14 14 12 37.8–.70 51.41N 16.18E 1
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=10.7km s-min=6.3km az=20.0.

(547) Czech and Slovak Republics

IPEC VI 14 16 01 39.4–.18 49.83N 18.59E 0 1.4L
CSEM VI 14 16 01 39.4–.26 49.85N 18.50E 1 2.3L **¶16614311**
IPEC Event type ki. Error ellipse: s-maj=2.2km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=7.3km s-min=3.5km az=8.0.

(548) Poland

ISC VI 14 16 20 38.5–.98 51.46N–.04 16.18E–.03 0 52 1-4
ISCJB VI 14 16 20 36.7–.74 51.44N–.03 16.18E–.04 0 **¶16614313**
CSEM VI 14 16 20 38.1–.40 51.44N 16.16E 2 3.2L
WAR VI 14 16 20 39.3 51.44N 16.19E 1 2.4W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.1km s-min=3.5km az=15.6.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=5.4km az=170.0.

(548) Poland

ISC VI 14 16 23 24.6–.76 51.52N–.03 16.20E–.02 0 108 1-11
CSEM VI 14 16 23 25.9–.25 51.45N 16.18E 2 3.2L **¶16614314**
WAR VI 14 16 23 26.9 51.44N 16.19E 1 2.9W
IDC VI 14 16 23 26.9–.92 51.41N 16.16E 0 3.3,3.2
VIE VI 14 16 23 30.8–1.1 51.16N 16.10E 0 2.5b,2.5L
ISC Event type sr.
CSEM Event type ki. Error ellipse: s-maj=4.1km s-min=3.3km az=179.0.
IDC Error ellipse: s-maj=15.7km s-min=7.8km az=122.0.
VIE Event type sr. Error ellipse: s-maj=8.3km s-min=5.8km az=104.0. Suspected Mining induced.

(460) Wyoming

ISC VI 14 18 12 23.0–.91 43.78N–.05 105.18W–.05 0 62 1-20
IDC VI 14 18 12 20.6–2.7 43.32N 105.13W 0 4.2L,3.7 **¶16730494**
ISCJB VI 14 18 12 22.2–.40 43.72N–.03 105.26W–.05 0 4.2L,3.7
NEIC VI 14 18 12 23.9–.42 43.70N 105.24W 0 3.3L,3.7
ISC Event type sm.
IDC Error ellipse: s-maj=58.8km s-min=9.1km az=155.0.
ISCJB Event type fm. Error ellipse: s-maj=4.9km s-min=4.5km az=146.7.
NEIC Event type fm. Error ellipse: s-maj=5.5km s-min=5.1km az=70.0. 69 km [43 miles] SSE of Gillette. Suspected Mining explosion.

(548) Poland

PRU VI 14 21 54 59.2 50.33N 19.30E 0 ¶16614320
PRU Event type ki.

(329) Eastern Kazakhstan

NNC VI 15 09 50 17.9–.95 51.66N 75.28E 0 3.5b,3.2 ¶17221827
NNC Event type sm. Error ellipse: s-maj=16.8km s-min=6.2km az=22.0. Suspected Mining explosion.

(366) Turkey

ISC VI 15 17 36 57.7–.92 39.27N–.04 36.47E–.03 0 28 0-2
ISCJB VI 15 17 36 57.9–.56 39.26N–.04 36.46E–.04 0 **¶17555974**
DDA VI 15 17 36 57.3 39.45N 36.59E 8 2.6
CSEM VI 15 17 36 57.3–.65 39.52N 36.62E 1 2.6
ISK VI 15 17 36 58.4 39.24N 36.35E 6 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.2km s-min=3.8km az=33.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=18.0km s-min=6.8km az=42.0. Suspected Mining explosion.

(536) Sweden

UPP VI 15 23 34 07.1–.10 67.88N 20.17E 0 1.5L
CSEM VI 15 23 33 59.7–.26 67.85N 20.21E 2 1.3L **¶602729191**
HEL VI 15 23 34 00.4–.10 67.86N 20.18E 0 1.8L,1.3L
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=6.4km s-min=5.0km az=160.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.4km az=-1.0. Explosion.

(592) South Australia

ISC VI 16 06 19 58.0–1.1 30.37S–.08 138.38E–.08 0 9 3-11
ISCJB VI 16 06 19 56.1–.73 30.27S–.07 138.4E–.10 0 **¶16730675**
IDC VI 16 06 19 58.9–3.5 30.23S 138.45E 0 3.1,3.1
AUST VI 16 06 19 58.3–.10 30.37S 138.36E 0 3.1,3.1
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=14.6km s-min=6.0km az=146.0.
IDC Error ellipse: s-maj=81.4km s-min=16.8km az=44.0.
AUST Event type km. Error ellipse: s-maj=0.7km s-min=0.2km az=347.0. Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC VI 16 09 26 26.0–.78 59.34N–.02 27.06E–.04 0 53 1-10
ISCJB VI 16 09 26 26.0–.58 59.31N–.03 27.12E–.08 0 **¶16638348**
HEL VI 16 09 26 26.1–.40 59.33N 27.30E 0 2.0L
CSEM VI 16 09 26 26.1–.59 59.36N 27.16E 2 2.0L
NAO VI 16 09 26 27.9–1.0 59.30N 26.97E 2.3L
BER VI 16 09 26 28.5–2.2 59.32N 27.02E 0 2.3L
IDC VI 16 09 26 29.8–1.3 59.41N 27.11E 0 3.2,3.1
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=5.6km s-min=3.7km az=10.8.
HEL Event type kh. Error ellipse: s-maj=1.9km s-min=5.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=13.8km s-min=7.0km az=98.0. Mining explosion.
BER Event type sh. Error ellipse: s-maj=3.3km s-min=15.5km az=-1.0. Suspected explosion.
IDC Error ellipse: s-maj=16.9km s-min=9.2km az=85.0.

(535) Southern Norway

BER VI 16 13 53 11.6–2.4 59.36N 6.06E 0 1.9,1.1L
CSEM VI 16 13 53 11.6 59.36N 6.06E 0 1.1L,1.1L **¶602729223**
BER Event type kh. Error ellipse: s-maj=3.6km s-min=7.3km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Mining explosion.

(548) Poland

ISC VI 16 13 54 06.4–.72 51.55N–.03 16.09E–.02 0 131 1-19
ISCJB VI 16 13 54 04.5–.39 51.55N–.02 16.12E–.03 0 **¶16638359**
CSEM VI 16 13 54 07.6–.26 51.48N 16.07E 2 3.6L
BGR VI 16 13 54 07.5–.75 51.57N 16.14E 1 3.1L
WAR VI 16 13 54 08.2 51.49N 16.09E 1 2.9W
PRU VI 16 13 54 08.5 51.49N 16.02E 0 2.9W
IDC VI 16 13 54 08.1–.76 51.51N 16.04E 0 3.4,3.3
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.2km s-min=2.2km az=10.0.
CSEM Event type ki. Error ellipse: s-maj=4.7km s-min=2.7km az=8.0.
BGR Event type ki. Error ellipse: s-maj=10.0km s-min=4.4km az=12.0.
PRU Event type ki.
IDC Error ellipse: s-maj=14.2km s-min=7.1km az=111.0.

(536) Sweden

ISC VI 16 17 18 31.9–.74 67.07N–.02 20.94E–.02 0 88 1-8
ISCJB VI 16 17 18 31.4–.39 67.04N–.02 20.88E–.07 0 **¶17206335**
CSEM VI 16 17 18 32.5–.19 67.06N 20.91E 2 1.9L
UPP VI 16 17 18 32.2–.10 67.04N 20.94E 0 1.9L
HEL VI 16 17 18 33.0–.10 67.05N 20.92E 0 2.2L,1.9L
IDC VI 16 17 18 33.5–.92 67.05N 21.07E 0 2.8,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.8km s-min=2.8km az=177.4.
CSEM Event type km. Error ellipse: s-maj=4.3km s-min=3.3km az=78.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.8km az=-1.0. Explosion.
IDC Error ellipse: s-maj=18.2km s-min=8.1km az=114.0.

(548) Poland

PRU VI 16 18 40 42.3 50.27N 18.75E 0
CSEM VI 16 18 40 41.8–.27 50.28N 18.75E 2 **¶16638365**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.8km s-min=3.4km az=2.0.

(548) Poland

PRU VI 16 20 44 56.6 50.21N 18.53E 0
CSEM VI 16 20 44 55.9–.21 50.23N 18.56E 0–2 **¶16638367**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=2.2km az=3.0.

(548) Poland

ISC VI 16 21 23 59.7–.80 50.08N–.03 19.10E–.02 0 45 0-5
ISCJB VI 16 21 23 59.9–.45 50.10N–.03 19.03E–.03 0 **¶16638368**
PRU VI 16 21 24 00.6 50.15N 19.06E 0
CSEM VI 16 21 24 01.0–.28 50.10N 19.06E 2 2.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.1km s-min=2.9km az=11.5.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.4km s-min=4.4km az=3.0.

(547) Czech and Slovak Republics

ISC VI 17 02 44 06.9–1.0 49.73N–.07 18.46E–.05 0 19 0-2
ISCJB VI 17 02 44 07.1–.81 49.69N–.08 18.39E–.08 0 **¶16638397**
CSEM VI 17 02 44 07.4–.46 49.70N 18.39E 2
PRU VI 17 02 44 07.6 49.82N 18.45E 0
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=13.1km s-min=5.1km az=30.3.
CSEM Event type ki. Error ellipse: s-maj=18.3km s-min=7.3km az=28.0.
PRU Event type ki.

(366) Turkey

ISC VI 17 08 07 33.7–1.1 37.16N–.05 37.43E–.03 0 20 0-2
ISCJB VI 17 08 07 32.2–.97 37.06N–.07 37.51E–.06 0 **¶17556032**
CSEM VI 17 08 07 32.5–.68 37.14N 37.46E 1 2.5
ISK VI 17 08 07 33.0 37.16N 37.48E 7 2.5
DDA VI 17 08 07 35.2 37.22N 37.30E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=10.8km s-min=5.9km az=157.4.
CSEM Event type sm. Error ellipse: s-maj=24.9km s-min=15.6km az=139.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC VI 17 09 25 14.2–.96 37.35N–.05 28.23E–.04 0 21 0-1
ISK VI 17 09 25 15.6 37.24N 28.17E 5 2.6 **¶17556035**
ISCJB VI 17 09 25 16.5–.64 37.26N–.04 28.21E–.04 0 2.6
DDA VI 17 09 25 16.5 37.22N 28.24E 7 2.6
CSEM VI 17 09 25 16.7–.21 37.26N 28.18E 2 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=4.6km az=11.1.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.2km s-min=4.3km az=21.0. Suspected Mining explosion.

(724) Baltic States-Belarus-Northwestern Russia

ISC VI 17 10 15 54.8–1.2 67.54N–.04 33.74E–.07 0 64 0-23
HEL VI 17 10 15 54.9–.20 67.72N 34.00E 0 2.7L **¶16638442**
ISCJB VI 17 10 15 55.7–.90 67.74N–.04 33.6E–.10 0 3.1b
CSEM VI 17 10 15 55.1–1.0 67.62N 33.82E 1 2.5L
IDC VI 17 10 15 56.8–1.2 67.73N 33.61E 0 3.4,3.4
NAO VI 17 10 15 56.3–1.2 67.68N 33.78E 3.1L,3.4
ISC Event type km.
HEL Event type kh. Error ellipse: s-maj=1.2km s-min=1.4km az=-1.0. Explosion.
ISCJB Event type km. Error ellipse: s-maj=7.6km s-min=5.8km az=168.2.
CSEM Event type km. Error ellipse: s-maj=19.6km s-min=11.7km az=80.0. Mining explosion.
IDC Error ellipse: s-maj=13.9km s-min=9.2km az=77.0.

(721) Finland

HEL VI 17 10 49 15.7–.20 64.01N 28.15E 0
UPP VI 17 10 49 13.2 63.74N 28.38E 0 1.4L **¶601481725**
CSEM VI 17 10 49 15.6–.32 63.97N 28.12E 2 1.4L
HEL Event type kh. Error ellipse: s-maj=1.4km s-min=1.3km az=-1.0. Explosion.
UPP Event type sm. Suspected Mining explosion.
CSEM Event type km. Error ellipse: s-maj=8.4km s-min=7.3km az=69.0. Mining explosion.

(366) Turkey

ISC VI 17 12 27 42.8–.94 38.69N–.04 34.65E–.05 0 25 0-2
DDA VI 17 12 27 42.3 38.69N 34.69E 5 2.8 **¶17556041**
ISCJB VI 17 12 27 43.7–.64 38.73N–.04 34.68E–.06 0 2.8
CSEM VI 17 12 27 43.6–.28 38.74N 34.70E 1 2.8
ISK VI 17 12 27 43.2 38.75N 34.69E 5 1.9L
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=7.3km s-min=4.3km az=33.3.
CSEM Event type sm. Error ellipse: s-maj=8.2km s-min=5.1km az=115.0. Suspected Mining explosion.

(366) Turkey

ISC VI 17 13 53 53.8–.82 37.91N–.03 34.86E–.04 0 24 0-1
ISK VI 17 13 53 53.9 38.03N 34.86E 5 1.8L **¶17556042**
ISCJB VI 17 13 53 54.9–.60 37.98N–.03 34.80E–.04 0 1.8L
DDA VI 17 13 53 54.4 37.97N 34.72E 7 2.6
CSEM VI 17 13 53 55.0–.36 37.96N 34.77E 1 1.8L
ISC Event type sm.

ISCJB Event type sm. Error ellipse: s-maj=4.9km s-min=4.2km az=13.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.3km s-min=6.8km az=6.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**VI**	**17 15 01 02.8–.72**	**49.82N–.03**	**18.51E–.02**	**0**		**76**	**0-4**
ISCJB	VI	17 15 01 01.9–.36	49.84N–.03	18.45E–.03	0			**¶16638486**
IPEC	VI	17 15 01 02.9–.18	49.83N	18.56E	0–3	2.1L		
CSEM	VI	17 15 01 03.2–.21	49.83N	18.46E	2	2.6L		
VIE	VI	17 15 01 04.6–.88	49.65N	18.43E	0	2.5b,2.3L		
PRU	VI	17 15 01 04.1	49.83N	18.46E	0	2.5b,2.3L		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.2km s-min=2.1km az=18.7.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=6.1km s-min=3.0km az=13.0.
VIE Event type sr. Error ellipse: s-maj=7.8km s-min=5.0km az=49.0. Suspected Mining induced.
PRU Event type ki.

(548) Poland

PRU	**VI**	**17 20 11 48.6**	**50.38N**	**18.84E**	**0**			
CSEM	VI	17 20 11 47.9–.39	50.41N	18.84E	2			**¶16638507**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.3km s-min=3.5km az=3.0.

(548) Poland

ISC	**VI**	**18 08 15 28.1–.46**	**51.51N–.02**	**16.08E–.02**	**0**	**3.7b**	**319**	**1-63**
ISCJB	VI	18 08 15 26.1–.20	51.51N–.01	16.10E–.02	0	3.8b		**¶16638574**
CSEM	VI	18 08 15 27.9–.10	51.51N	16.11E	2	4.0L		
MOS	VI	18 08 15 27.8–1.1	51.53N	16.10E	10	4.3b		
PRU	VI	18 08 15 28.9	51.50N	16.09E	0	4.3b		
WAR	VI	18 08 15 28.8	51.49N	16.09E	1	3.2W		
IDC	VI	18 08 15 28.4–.62	51.49N	15.93E	0	3.7b,3.6		
BGR	VI	18 08 15 29.6–.22	51.45N	16.09E	1	3.5L,3.6		
UPP	VI	18 08 15 32.0–3.1	51.77N	15.55E	0	2.1L,3.6		
VIE	VI	18 08 15 32.0–.53	51.21N	16.20E	0	3.1L,2.9b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.9km s-min=1.6km az=11.5.
CSEM Event type ki. Error ellipse: s-maj=2.2km s-min=1.9km az=45.0.
MOS Error ellipse: s-maj=7.6km s-min=4.4km az=84.2.
PRU Event type ki.
IDC Error ellipse: s-maj=13.5km s-min=7.1km az=102.0.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=27.0.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
VIE Event type sr. Error ellipse: s-maj=6.1km s-min=4.1km az=90.0. Suspected Mining induced.

(366) Turkey

ISC	**VI**	**18 08 42 12.4–.98**	**37.20N–.03**	**28.15E–.03**	**0**		**26**	**0-2**
ISCJB	VI	18 08 42 11.9–.55	37.18N–.04	28.18E–.04	0			**¶17556059**
DDA	VI	18 08 42 11.5	37.25N	28.18E	7	2.6		
CSEM	VI	18 08 42 11.9–.29	37.22N	28.17E	2	2.6		
ISK	VI	18 08 42 11.2	37.14N	28.13E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.7km s-min=4.2km az=32.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.9km s-min=5.8km az=19.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**18 08 53 32.3–.85**	**37.24N–.04**	**28.11E–.03**	**0**		**26**	**0-2**
ISCJB	VI	18 08 53 32.6–.61	37.21N–.05	28.15E–.04	0			**¶17556060**
DDA	VI	18 08 53 32.0	37.24N	28.06E	7	2.7		
CSEM	VI	18 08 53 32.5–.28	37.24N	28.17E	2	2.6		
ISK	VI	18 08 53 32.2	37.22N	28.19E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.0km s-min=4.5km az=15.2.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.4km s-min=5.7km az=29.0. Suspected Mining explosion.

(548) Poland

PRU	**VI**	**18 11 06 21.6**	**50.20N**	**18.97E**	**0**			
IPEC	VI	18 11 06 21.1–.21	50.22N	19.04E	0–2	1.6L		**¶16638587**
CSEM	VI	18 11 06 21.0–.20	50.20N	19.00E	2	2.4L		

PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.7km s-min=1.1km az=168.0.
CSEM Event type ki. Error ellipse: s-maj=4.5km s-min=3.0km az=11.0.

(536) Sweden

HEL	**VI**	**18 23 23 04.5–.10**	**67.85N**	**20.18E**	**0**	**1.9L,1.5L**		
UPP	VI	18 23 23 03.8	67.85N	20.20E	0	1.5L,1.5L		**¶602729313**
CSEM	VI	18 23 23 03.7–.23	67.80N	20.33E	2	1.5L,1.5L		
NAO	VI	18 23 23 04.3–3.0	67.82N	20.35E		2.3L,1.5L		
BER	VI	18 23 23 06.9–4.8	67.97N	20.43E	0	2.3L,1.7L		

HEL Event type kh. Error ellipse: s-maj=0.7km s-min=0.7km az=-1.0. Explosion.
UPP Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=5.7km s-min=4.2km az=9.0. Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
BER Event type sh. Error ellipse: s-maj=10.2km s-min=28.0km az=-1.0. Suspected explosion.

(547) Czech and Slovak Republics

PRU	**VI**	**19 02 39 18.6**	**49.83N**	**18.63E**	**0**			
CSEM	VI	19 02 39 19.4–.85	49.74N	18.57E	1			**¶16638690**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=35.6km s-min=7.4km az=31.0.

(548) Poland

ISC	**VI**	**19 03 39 53.5–.63**	**51.54N–.03**	**16.21E–.02**	**0**		**118**	**1-60**
ISCJB	VI	19 03 39 51.9–.31	51.48N–.02	16.24E–.03	0	3.2b		**¶16638697**
CSEM	VI	19 03 39 54.2–.15	51.48N	16.20E	2	3.4L		
WAR	VI	19 03 39 55.7	51.44N	16.20E	1	2.7W		
IDC	VI	19 03 39 55.4–.64	51.44N	16.15E	0	3.3,3.1		
VIE	VI	19 03 39 56.7–.53	51.33N	16.09E	0	2.9L,2.4b		
UPP	VI	19 03 39 58.6–3.1	51.72N	15.83E	0	2.0L,2.4b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.5km s-min=2.2km az=141.9.
CSEM Event type ki. Error ellipse: s-maj=3.2km s-min=2.6km az=77.0.
IDC Error ellipse: s-maj=13.5km s-min=6.9km az=103.0.
VIE Event type sr. Error ellipse: s-maj=5.0km s-min=3.9km az=43.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC	**VI**	**19 03 55 35.4–.66**	**51.59N–.02**	**16.12E–.02**	**0**		**139**	**1-19**
ISCJB	VI	19 03 55 34.4–.32	51.53N–.02	16.16E–.03	0			**¶16638700**
CSEM	VI	19 03 55 36.4–.14	51.53N	16.11E	2	3.5L		
IDC	VI	19 03 55 37.9–.77	51.46N	16.12E	0	3.3,3.3		
WAR	VI	19 03 55 38.1	51.49N	16.09E	1	2.7W,3.3		
VIE	VI	19 03 55 39.0–.74	51.38N	15.99E	0	3.0L,2.5b		
UPP	VI	19 03 55 41.3–2.9	51.82N	15.75E	0	1.6L,2.5b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=2.5km s-min=2.3km az=33.6.
CSEM Event type ki. Error ellipse: s-maj=2.7km s-min=2.4km az=65.0.
IDC Error ellipse: s-maj=14.1km s-min=7.7km az=107.0.
VIE Event type sr. Error ellipse: s-maj=6.2km s-min=5.0km az=129.0. Suspected Mining induced.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.

(548) Poland

ISC	**VI**	**19 11 50 34.2–1.1**	**51.50N–.05**	**16.09E–.02**	**0**		**66**	**1-4**
ISCJB	VI	19 11 50 32.3–.73	51.46N–.03	16.15E–.03	0			**¶16638747**
CSEM	VI	19 11 50 33.9–.44	51.47N	16.16E	2	3.2L		
WAR	VI	19 11 50 34.2	51.50N	16.13E	1	2.4W		
PRU	VI	19 11 50 35.0	51.46N	16.13E	0	2.4W		
VIE	VI	19 11 50 37.9–1.0	51.22N	16.55E	0	2.5L,2.2b		

ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=5.2km s-min=2.9km az=15.2.
CSEM Event type ki. Error ellipse: s-maj=7.0km s-min=3.8km az=2.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=6.0km s-min=4.6km az=61.0. Suspected Mining induced.

(547) Czech and Slovak Republics

ISC	**VI**	**19 14 47 35.3–.79**	**49.81N–.03**	**18.55E–.02**	**0**		**46**	**0-3**
ISCJB	VI	19 14 47 34.2–.45	49.84N–.04	18.47E–.03	0			**¶16638776**
IPEC	VI	19 14 47 35.5–.18	49.83N	18.58E	0	1.6L		
CSEM	VI	19 14 47 35.3–.26	49.82N	18.51E	1	2.7L		
PRU	VI	19 14 47 36.2	49.83N	18.50E	0	2.7L		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.4km s-min=2.5km az=11.6.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=7.7km s-min=3.5km az=8.0.
PRU Event type ki.

(536) Sweden

UPP	**VI**	**19 23 33 01.2–.10**	**67.84N**	**20.18E**	**0**	**1.6L**		
CSEM	VI	19 23 32 53.4–.32	67.73N	20.35E	2	1.2L		**¶602729320**
HEL	VI	19 23 32 55.3–.10	67.83N	20.21E	0	1.8L,1.2L		

UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
CSEM Event type km. Error ellipse: s-maj=7.4km s-min=6.2km az=21.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0. Explosion.

(366) Turkey

ISC	**VI**	**20 08 49 31.5–.87**	**39.15N–.04**	**27.65E–.04**	**0**		**29**	**1-1**
ISK	VI	20 08 49 31.5	39.15N	27.60E	3	1.9L		**¶17556123**
ISCJB	VI	20 08 49 32.0–.53	39.15N–.03	27.61E–.05	0	1.9L		
CSEM	VI	20 08 49 32.3–.33	39.14N	27.63E	1	1.9L		
DDA	VI	20 08 49 34.0	39.12N	27.51E	7	2.6		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.7km s-min=4.7km az=19.1.
CSEM Event type sm. Error ellipse: s-maj=8.9km s-min=7.5km az=95.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

PRU	**VI**	**20 20 48 06.8**	**50.24N**	**19.34E**	**0**			
CSEM	VI	20 20 48 06.2–1.1	50.24N	19.32E	1			**¶16646048**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=21.2km s-min=7.5km az=50.0.

(548) Poland

PRU	**VI**	**20 20 50 09.5**	**50.13N**	**19.13E**	**0**			
CSEM	VI	20 20 50 08.5–.28	50.15N	19.14E	1			**¶16646049**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=6.7km s-min=3.7km az=177.0.

(460) Wyoming

ISC	**VI**	**20 21 11 13.3–.66**	**43.77N–.03**	**105.17W–.03**	**0**		**70**	**1-68**
IDC	VI	20 21 11 10.7–1.6	43.41N	105.16W	0	4.2b,3.9		**¶17206632**
ISCJB	VI	20 21 11 13.0–.34	43.78N–.02	105.23W–.04	0	4.4b,3.4s		
NEIC	VI	20 21 11 14.3–.46	43.77N	105.22W	0	3.6L,2.9		

ISC Event type sm.
IDC Error ellipse: s-maj=38.7km s-min=8.9km az=156.0.
ISCJB Event type fm. Error ellipse: s-maj=3.8km s-min=3.4km az=24.7.
NEIC Event type fm. Error ellipse: s-maj=6.2km s-min=5.8km az=74.0. 64 km [40 miles] SSE of Gillette. Suspected Mining explosion.

(547) Czech and Slovak Republics

PRU	**VI**	**20 22 58 20.9**	**49.82N**	**18.55E**	**0**			
CSEM	VI	20 22 58 20.3–.41	49.85N	18.55E	1			**¶16646052**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=17.2km s-min=5.0km az=165.0.

(366) Turkey

ISC	**VI**	**21 08 52 59.2–1.0**	**37.25N–.03**	**28.20E–.03**	**0**		**27**	**0-2**
ISK	VI	21 08 52 56.9	37.24N	28.19E	5	2.0L		**¶17556151**
ISCJB	VI	21 08 52 57.9–.57	37.25N–.04	28.21E–.04	0	2.0L		
CSEM	VI	21 08 52 58.2–.22	37.26N	28.21E	2	2.0L		
DDA	VI	21 08 52 58.4	37.28N	28.16E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.8km s-min=4.1km az=27.7.
CSEM Event type sm. Error ellipse: s-maj=5.5km s-min=4.1km az=26.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(713) Central Kazakhstan

ISC	**VI**	**21 11 08 12.3–.73**	**50.88N–.05**	**73.64E–.06**	**0**		**21**	**2-60**
ISCJB	VI	21 11 08 11.5–.53	50.87N–.04	73.74E–.07	0	3.4b		**¶17206673**
IDC	VI	21 11 08 11.5–1.5	50.53N	73.51E	0	3.3b,3.2		
NNC	VI	21 11 08 13.1–.67	50.88N	73.62E	0	3.5b,3.2		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.7km s-min=5.6km az=154.0.
IDC Error ellipse: s-maj=27.5km s-min=9.1km az=32.0.
NNC Event type sm. Error ellipse: s-maj=9.5km s-min=5.6km az=44.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**21 14 52 25.5–.93**	**37.24N–.03**	**28.21E–.02**	**0**		**28**	**0-2**
ISCJB	VI	21 14 52 25.1–.53	37.24N–.03	28.21E–.03	0			**¶17556159**
ISK	VI	21 14 52 25.2	37.19N	28.18E	6	2.7		
DDA	VI	21 14 52 25.1	37.22N	28.21E	7	2.8		
CSEM	VI	21 14 52 25.5–.14	37.23N	28.21E	2	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.7km az=21.1.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=3.5km s-min=2.7km az=21.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**21 16 43 12.2–.85**	**40.87N–.04**	**30.54E–.02**	**0**		**46**	**0-2**
ISCJB	VI	21 16 43 12.4–.51	40.94N–.04	30.55E–.04	0			**¶17556164**
DDA	VI	21 16 43 12.4	40.88N	30.52E	7	2.8		
ISK	VI	21 16 43 12.4	40.94N	30.58E	11	2.5		
CSEM	VI	21 16 43 12.5–.18	40.96N	30.57E	1	2.5		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.6km s-min=3.6km az=20.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=4.6km s-min=3.1km az=22.0. Suspected Mining explosion.

(536) Sweden

ISC	**VI**	**21 17 04 09.8–.72**	**67.06N–.02**	**20.89E–.02**	**0**		**79**	**0-8**
ISCJB	VI	21 17 04 09.1–.36	67.08N–.02	21.06E–.06	0			**¶17206687**
CSEM	VI	21 17 04 09.6–.25	67.09N	21.06E	0–3	1.8L		
HEL	VI	21 17 04 10.9–.10	67.08N	20.92E	0	2.2L,1.8L		
UPP	VI	21 17 04 10.3–.10	67.07N	20.93E	0	1.8L,1.8L		
IDC	VI	21 17 04 12.4–.93	67.02N	21.71E	0	3.2,3.1		

ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.6km s-min=2.9km az=147.7.
CSEM Event type km. Error ellipse: s-maj=5.2km s-min=4.4km az=67.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.5km s-min=0.4km az=-1.0. Explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=16.6km s-min=8.4km az=103.0.

(548) Poland

PRU	**VI**	**21 21 11 34.8**	**50.29N**	**18.77E**	**0**			
CSEM	VI	21 21 11 34.4–.29	50.35N	18.73E	1			**¶16646073**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=7.5km s-min=2.7km az=177.0.

(548) Poland

PRU	**VI**	**22 00 26 15.7**	**50.34N**	**18.77E**	**0**			
IPEC	VI	22 00 26 16.4–.23	50.29N	18.79E	2–2	1.2L		**¶16646075**
CSEM	VI	22 00 26 16.1–.32	50.32N	18.74E	2	2.0L		

PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.5km s-min=1.1km az=168.0.
CSEM Event type ki. Error ellipse: s-maj=8.9km s-min=3.1km az=175.0.

(366) Turkey

ISC	**VI**	**22 04 53 30.2–.93**	**36.57N–.04**	**35.55E–.04**	**0**		**18**	**0-1**
ISCJB	VI	22 04 53 31.6–.57	36.47N–.03	35.49E–.05	0			**¶601587395**
DDA	VI	22 04 53 36.1	37.03N	35.59E	10	2.6		
NSSC	VI	22 04 53 39.4–.98	36.29N	35.92E	0–5	1.2L		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.5km s-min=3.4km az=137.2.
DDA Event type sm. Suspected Mining explosion.
NSSC Error ellipse: s-maj=3.7km s-min=8.3km az=-1.0.

(543) Germany

ISC	**VI**	**22 10 44 19.8–.73**	**51.48N–.02**	**6.46E–.02**	**0**		**147**	**0-6**
ISCJB	VI	22 10 44 19.7–.38	51.49N–.02	6.47E–.03	0			**¶602729447**
BNS	VI	22 10 44 20.2–1.1	51.56N	6.46E	1	2.3L		
CSEM	VI	22 10 44 20.9–.23	51.48N	6.54E	1	3.1L		

BUG VI 22 10 44 20.4 51.44N 6.55E 1 2.1L
LDG VI 22 10 44 21.5–.10 51.50N 6.53E 1 3.0,3.0L
BGR VI 22 10 44 21.8–.25 51.49N 6.56E 1 2.6L,3.0L
UCC VI 22 10 44 22.4 51.55N 6.47E 10 3.0L,3.0L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.4km s-min=2.5km az=37.0.
BNS Event type ki.
CSEM Event type ki. Error ellipse: s-maj=4.3km s-min=3.6km az=137.0.
BUG Event type ki.
LDG Event type sr. Error ellipse: s-maj=2.0km s-min=1.6km az=139.0. Suspected Mining induced.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=3.3km az=122.0.
UCC Event type ki.

(548) Poland

PRU VI 22 11 04 56.5 50.05N 18.40E 0
IPEC VI 22 11 04 55.6–.17 50.06N 18.47E 0–3 1.4L ¶16646077
CSEM VI 22 11 04 55.8–.34 50.06N 18.39E 1 2.2L
PRU Event type ki.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=8.1km s-min=4.3km az=176.0.

(367) Turkey-Georgia-Armenia border region

DDA VI 22 11 36 32.1 41.20N 41.97E 2 2.3
CSEM VI 22 11 36 32.2 41.20N 41.97E 2 2.3 ¶601587427
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.

(548) Poland

PRU VI 22 13 55 45.8 50.16N 19.15E 0
CSEM VI 22 13 55 45.9–.37 50.12N 19.16E 1 ¶16646079
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=5.1km az=169.0.

(366) Turkey

ISC VI 22 14 00 51.6–.86 40.64N–.03 31.18E–.03 0 58 0-2
ISK VI 22 14 00 52.4 40.57N 31.11E 2 3.0 ¶17556189
DDA VI 22 14 00 52.7 40.54N 31.08E 5 2.2
ISCJB VI 22 14 00 53.1–.46 40.57N–.03 31.11E–.04 0 2.2
CSEM VI 22 14 00 53.1–.16 40.56N 31.12E 2 2.2
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.3km s-min=3.4km az=147.7.
CSEM Event type sm. Error ellipse: s-maj=3.6km s-min=2.9km az=67.0. Suspected Mining explosion.

(548) Poland

ISC VI 22 14 01 16.5–2.0 51.44N–.09 16.08E–.05 0 30 1-3
CSEM VI 22 14 01 16.4–.55 51.44N 16.12E 2 2.9L ¶16646080
PRU VI 22 14 01 16.7 51.44N 16.13E 0 2.9L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.0km s-min=4.6km az=2.0.
PRU Event type ki.

(548) Poland

PRU VI 22 14 06 40.1 50.10N 18.41E 0
CSEM VI 22 14 06 39.4–.20 50.09N 18.42E 1 2.2L ¶16646081
IPEC VI 22 14 06 39.6–.17 50.07N 18.47E 0–2 1.4L
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=4.7km s-min=2.2km az=178.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=160.0.

(366) Turkey

ISC VI 23 08 43 38.6–1.3 40.60N–.03 35.14E–.08 0 28 0-1
ISCJB VI 23 08 43 40.4–.74 40.55N–.03 34.96E–.07 0 ¶17556227
DDA VI 23 08 43 40.2 40.52N 34.96E 7 2.7
CSEM VI 23 08 43 40.7–.30 40.54N 34.93E 2 2.7
ISK VI 23 08 43 40.1 40.59N 34.95E 18 2.7L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.8km s-min=3.6km az=171.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.7km s-min=4.2km az=79.0. Suspected Mining explosion.

(366) Turkey

ISC VI 23 08 49 33.9–.79 39.13N–.02 27.45E–.03 0 48 0-2
ISCJB VI 23 08 49 34.3–.41 39.14N–.03 27.53E–.03 0 ¶17556228
CSEM VI 23 08 49 34.2–.32 39.12N 27.48E 1 2.4L
ISK VI 23 08 49 34.3 39.08N 27.49E 17 2.4L
DDA VI 23 08 49 35.8 39.10N 27.52E 7 2.7L
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=3.7km az=149.8.
CSEM Event type sm. Error ellipse: s-maj=8.0km s-min=6.6km az=35.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

ISC VI 23 09 08 43.2–2.0 51.42N–.09 16.14E–.06 0 27 1-3
WAR VI 23 09 08 43.3 51.48N 16.11E 1 2.2W ¶16683440
PRU VI 23 09 08 44.3 51.43N 16.12E 0 2.2W
CSEM VI 23 09 08 44.0–.61 51.40N 16.14E 1 2.9L
ISC Event type ki.
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=10.1km s-min=4.6km az=163.0.

(713) Central Kazakhstan

NNC VI 23 09 52 00.3–2.4 50.11N 72.99E 0 3.2b,2.8
¶17242819
NNC Event type sm. Error ellipse: s-maj=40.0km s-min=8.4km az=83.0. Suspected Mining explosion.

(548) Poland

ISC VI 24 08 40 29.9–2.5 51.4N–.10 16.21E–.06 0 28 1-3
WAR VI 24 08 40 29.5 51.44N 16.20E 1 2.1W ¶16683574
CSEM VI 24 08 40 29.5–.77 51.41N 16.23E 1 2.5L
PRU VI 24 08 40 30.8 51.37N 16.24E 0 2.5L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=10.9km s-min=6.2km az=13.0.
PRU Event type ki.

(536) Sweden

ISC VI 24 17 02 11.3–.74 67.07N–.02 20.79E–.03 0 100 1-8
ISCJB VI 24 17 02 10.7–.34 67.07N–.02 20.99E–.07 0 ¶16684551
CSEM VI 24 17 02 11.6–.26 67.08N 20.98E 1 2.0L
UPP VI 24 17 02 11.8–.10 67.08N 20.96E 0 2.0L
HEL VI 24 17 02 12.6–.10 67.07N 20.93E 0 2.3L,2.0L
NAO VI 24 17 02 12.6–.90 67.06N 21.22E 2.5L,2.0L
IDC VI 24 17 02 12.4–1.0 67.09N 20.94E 0 2.9,2.8
BER VI 24 17 02 14.5–2.8 67.06N 20.89E 0 2.5L,2.8
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.8km s-min=2.6km az=166.7.
CSEM Event type km. Error ellipse: s-maj=6.4km s-min=5.2km az=90.0. Mining explosion.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
HEL Event type kh. Error ellipse: s-maj=0.6km s-min=0.8km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=8.6km az=114.0.
BER Event type sh. Error ellipse: s-maj=5.2km s-min=29.5km az=-1.0. Suspected explosion.

(366) Turkey

ISC VI 24 17 58 33.8–1.1 41.50N–.06 35.88E–.03 0 24 0-2
ISK VI 24 17 58 33.8 41.46N 36.11E 13 2.8 ¶17556267
ISCJB VI 24 17 58 35.8–.75 41.39N–.05 35.81E–.05 0 2.8
DDA VI 24 17 58 35.9 41.38N 35.82E 7 2.6
CSEM VI 24 17 58 35.9–.28 41.38N 35.83E 1 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=7.6km s-min=5.2km az=13.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.1km s-min=4.9km az=28.0. Suspected Mining explosion.

(460) Wyoming

ISC VI 24 18 16 10.3–.81 43.74N–.05 105.28W–.07 0 62 1-90
ISCJB VI 24 18 16 09.3–.37 43.73N–.03 105.30W–.04 0 3.8b ¶17206884
NEIC VI 24 18 16 11.7–1.1 43.75N 105.28W 9–9 3.5L
IDC VI 24 18 16 11.2–.92 44.11N 105.88W 0 3.7,3.7b
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=4.8km s-min=4.3km az=157.0.
NEIC Event type fm. Error ellipse: s-maj=3.4km s-min=3.1km az=77.0. 63 km [39 miles] SSE of Gillette. Suspected Mining explosion.
IDC Error ellipse: s-maj=23.2km s-min=8.7km az=144.0.

(460) Wyoming

ISC VI 24 19 13 42.3–.95 43.51N–.05 105.40W–.05 0 46 1-14
ISCJB VI 24 19 13 41.6–.44 43.50N–.03 105.40W–.05 0 ¶16731393
NEIC VI 24 19 13 42.8–.35 43.52N 105.37W 0 3.0L
IDC VI 24 19 13 43.0–1.6 43.82N 105.81W 0 3.6,3.4
ISC Event type sm.
ISCJB Event type fm. Error ellipse: s-maj=5.4km s-min=4.7km az=163.3.
NEIC Event type fm. Error ellipse: s-maj=4.4km s-min=4.1km az=101.0. 74 km [46 miles] E of Midwest. Suspected Mining explosion.
IDC Error ellipse: s-maj=43.1km s-min=8.9km az=149.0.

(548) Poland

PRU VI 25 06 10 23.5 51.49N 16.14E 0
CSEM VI 25 06 10 21.3–1.1 51.58N 16.07E 1 2.8L ¶16683725
WAR VI 25 06 10 23.2 51.54N 16.14E 1 2.8L
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=15.6km s-min=7.8km az=9.0.

(366) Turkey

ISC VI 25 08 56 52.5–.00 37.37N–.05 28.24E–.03 0 23 0-1
ISK VI 25 08 56 53.4 37.28N 28.20E 5 2.8 ¶17556285
ISCJB VI 25 08 56 54.4–.62 37.27N–.04 28.19E–.03 0 2.8
DDA VI 25 08 56 54.5 37.22N 28.18E 7 2.7
CSEM VI 25 08 56 54.5–.22 37.26N 28.16E 1 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.4km s-min=3.9km az=9.4.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=5.2km s-min=4.2km az=10.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC VI 25 14 29 18.0–.74 49.83N–.03 18.48E–.02 0 62 0-4
ISCJB VI 25 14 29 16.9–.41 49.91N–.03 18.40E–.03 0 ¶16683785
IPEC VI 25 14 29 18.2–.18 49.85N 18.51E 0 2.1L
CSEM VI 25 14 29 18.3–.21 49.88N 18.44E 2 2.7L
PRU VI 25 14 29 19.3 49.86N 18.40E 0 2.7L
VIE VI 25 14 29 19.6–1.5 49.84N 18.35E 0 2.5L,2.1b
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=4.0km s-min=2.3km az=16.3.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
CSEM Event type ki. Error ellipse: s-maj=5.0km s-min=2.9km az=11.0.
PRU Event type ki.
VIE Event type sr. Error ellipse: s-maj=10.1km s-min=6.9km az=41.0. Suspected Mining induced.

(724) Baltic States-Belarus-Northwestern Russia

ISC VI 25 22 45 44.3–1.6 67.71N–.05 33.88E–.09 0 30 0-12
ISCJB VI 25 22 45 43.7–1.0 67.67N–.04 33.9E–.10 0 ¶17206945
HEL VI 25 22 45 45.7–.40 67.71N 33.93E 0 2.0L
KOLA VI 25 22 45 47.2 67.68N 33.77E 0 2.0L
IDC VI 25 22 45 49.0–1.8 67.74N 33.51E 0 3.2,3.2
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=8.3km s-min=5.8km az=13.5.
HEL Event type kh. Error ellipse: s-maj=2.1km s-min=5.9km az=-1.0. Explosion.
KOLA Event type km.
IDC Error ellipse: s-maj=19.2km s-min=9.3km az=83.0.

(548) Poland

ISC VI 26 02 16 33.5–.72 50.11N–.03 18.39E–.01 0 80 0-4
ISCJB VI 26 02 16 32.3–.38 50.12N–.02 18.30E–.02 0 ¶16683806
IPEC VI 26 02 16 33.5–.17 50.06N 18.45E 0–2 2.1L
WAR VI 26 02 16 33.4 50.06N 18.41E 1 2.6W
CSEM VI 26 02 16 33.3–.20 50.10N 18.34E 2 2.8L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.6km s-min=2.2km az=10.2.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=4.5km s-min=2.7km az=4.0.

(329) Eastern Kazakhstan

NNC VI 26 07 27 14.4–1.4 50.79N 79.65E 0 3.5b,3.2
¶17267934
NNC Event type sm. Error ellipse: s-maj=12.4km s-min=6.1km az=14.0. Suspected Mining explosion.

(536) Sweden

ISC VI 26 07 49 45.9–1.0 67.16N–.03 20.64E–.06 0 35 1-8
CSEM VI 26 07 49 46.3–.45 67.16N 20.72E 2 1.9L ¶603482807
NAO VI 26 07 49 46.8–1.2 67.15N 21.08E 1.8L
ISCJB VI 26 07 49 47.4–1.2 67.23N–.04 21.0E–.20 0 1.8L
HEL VI 26 07 49 47.1–.30 67.19N 20.61E 0 1.9L
ISC Event type sm.
CSEM Event type sm. Error ellipse: s-maj=9.4km s-min=5.8km az=72.0. Suspected Mining explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
ISCJB Event type sm. Error ellipse: s-maj=9.4km s-min=5.0km az=154.3.
HEL Event type sh. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Suspected explosion.

(536) Sweden

ISC VI 26 07 48 16.9–.36 32.41N–.03 95.96E–.02 30–2 5.2b,4.7s 792 5-158
IDC VI 26 07 48 11.9–.42 32.41N 95.97E 0 5.0,5.0 ¶16682702
ISCJB VI 26 07 48 15.2–.09 32.41N–.02 95.92E–.02 31 5.2b,4.7s
MOS VI 26 07 48 15.8–.83 32.42N 95.97E 36 5.4b,4.7s
BJI VI 26 07 48 15.4 32.40N 96.05E 20 5.5b,5.3s
GCMT VI 26 07 48 16.8–.10 32.33N 95.98E 16–0 5.3W,5.3s
NEIC VI 26 07 48 16.8–.10 32.45N 95.95E 29 5.3b,5.3s
ISC Event type ke.
IDC Error ellipse: s-maj=14.2km s-min=10.2km az=31.0.
ISCJB Event type de. Error ellipse: s-maj=2.5km s-min=1.8km az=42.6.
MOS Error ellipse: s-maj=5.7km s-min=3.4km az=120.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c110; s103,c192; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.45±.02 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.36±.04; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.29±.05; Best double couple: NP1:ϕ_s77.00000°,δ63.00000°,λ-31.00000°. NP2:ϕ_s182.00000°,δ63.00000°,λ-149.00000°. Principal axes: T 1.0540,Plg0.0000°,Azm129.0000°; N -0.0580,Plg50.0000°,Azm220.0000°; P -0.9970,Plg40.0000°,Azm39.0000° $M_0$1.02500×10^{17}
NEIC Event type de. Error ellipse: s-maj=3.0km s-min=2.2km az=47.0. Ten houses destroyed and cracks developed in 90 percent of houses in the epicentral area. Felt at Gyegu.

(366) Turkey

ISC VI 26 11 18 34.6–.79 37.98N–.02 35.67E–.03 0 42 0-2
ISK VI 26 11 18 33.8 37.99N 35.58E 5 2.7 ¶17556319
DDA VI 26 11 18 34.9 38.00N 35.64E 8 2.6
ISCJB VI 26 11 18 35.3–.42 37.99N–.02 35.65E–.04 0 2.6
CSEM VI 26 11 18 35.1–.26 37.99N 35.63E 1 2.6
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.3km s-min=3.1km az=19.4.
CSEM Event type sm. Error ellipse: s-maj=6.3km s-min=4.8km az=120.0. Suspected Mining explosion.

(366) Turkey

ISC VI 26 11 23 55.8–.80 38.36N–.03 37.65E–.02 0 41 0-2
ISK VI 26 11 23 54.2 38.33N 37.74E 2 3.0 ¶17556320
ISCJB VI 26 11 23 55.7–.48 38.37N–.03 37.71E–.04 0 3.0
CSEM VI 26 11 23 55.3–.36 38.33N 37.73E 1 2.9
DDA VI 26 11 23 56.5 38.37N 37.66E 7 2.9
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.9km az=32.1.
CSEM Event type sm. Error ellipse: s-maj=11.1km s-min=7.7km az=20.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC VI 26 12 22 03.4–.85 37.38N–.05 28.14E–.03 0 26 0-1
ISK VI 26 12 22 03.0 37.21N 28.24E 27 2.7 ¶17556321
ISCJB VI 26 12 22 04.9–.54 37.23N–.03 28.10E–.03 0 2.7
CSEM VI 26 12 22 04.9–.28 37.22N 28.09E 1 2.7

DDA VI 26 12 22 04.8 37.26N 28.06E 7 2.8
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.1km s-min=3.6km az=20.1.
CSEM Event type sm. Error ellipse: s-maj=6.8km s-min=4.7km az=1.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
ISC VI 26 12 24 24.6–.77 50.16N–.03 19.00E–.02 0 49 0-2
ISCJB VI 26 12 24 24.2–.44 50.19N–.03 18.91E–.03 0 **¶16683817**
CSEM VI 26 12 24 24.7–.22 50.20N 18.95E 2 2.6L
WAR VI 26 12 24 25.1 50.23N 19.06E 1 2.6W
PRU VI 26 12 24 25.1 50.24N 18.95E 0 2.6W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.2km s-min=2.8km az=5.8.
CSEM Event type ki. Error ellipse: s-maj=5.2km s-min=3.4km az=7.0.
PRU Event type ki.
(548) Poland
ISC VI 26 12 25 44.1–.77 51.54N–.03 16.13E–.02 0 79 1-19
VIE VI 26 12 25 38.8–.76 51.57N 15.98E 0 2.7L,2.2b **¶16683818**
ISCJB VI 26 12 25 43.8–.59 51.45N–.03 16.14E–.03 0 2.7L,2.2b
CSEM VI 26 12 25 45.2–.32 51.47N 16.12E 2 3.2L,2.2b
IDC VI 26 12 25 46.6–1.1 51.45N 16.05E 0 3.2,3.2
PRU VI 26 12 25 46.9 51.43N 16.07E 0 3.2,3.2
ISC Event type sr.
VIE Event type sr. Error ellipse: s-maj=4.9km s-min=2.1km az=29.0. Suspected Mining induced.
ISCJB Event type sr. Error ellipse: s-maj=4.2km s-min=2.7km az=25.5.
CSEM Event type ki. Error ellipse: s-maj=5.2km s-min=4.3km az=21.0.
IDC Error ellipse: s-maj=19.8km s-min=9.2km az=111.0.
PRU Event type ki.
(543) Germany
ISC VI 26 13 41 19.0–.78 51.45N–.02 6.62E–.02 0 125 0-5
ISCJB VI 26 13 41 18.6–.41 51.48N–.02 6.55E–.04 0 **¶16692787**
CSEM VI 26 13 41 19.4–.25 51.48N 6.62E 1 2.7L
UCC VI 26 13 41 20.2 51.59N 6.50E 10 2.6L
BNS VI 26 13 41 20.2–1.7 51.46N 6.60E 1–43 2.1L
LDG VI 26 13 41 20.0–.17 51.50N 6.62E 1 2.8,2.6L
BGR VI 26 13 41 20.4–.31 51.47N 6.64E 1 2.2L,2.6L
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.6km s-min=2.5km az=40.2.
CSEM Event type ki. Error ellipse: s-maj=4.8km s-min=3.5km az=134.0.
UCC Event type si.
BNS Event type ki.
LDG Event type sr. Error ellipse: s-maj=2.8km s-min=2.0km az=17.0. Suspected Mining induced.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=3.3km az=119.0.
(366) Turkey
ISC VI 26 15 47 43.5–.85 37.33N–.03 28.10E–.02 0 33 0-2
ISCJB VI 26 15 47 43.6–.50 37.36N–.03 28.09E–.03 0 **¶17556328**
DDA VI 26 15 47 43.4 37.21N 28.14E 7 2.9
CSEM VI 26 15 47 43.8–.28 37.36N 28.10E 1 2.6
ISK VI 26 15 47 43.4 37.37N 28.10E 7 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.8km az=175.9.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=6.8km s-min=5.5km az=175.0. Suspected Mining explosion.
(547) Czech and Slovak Republics
PRU VI 26 19 36 32.7 49.86N 18.49E 0
CSEM VI 26 19 36 31.3–.80 49.96N 18.55E 1 **¶16683828**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=12.4km s-min=9.9km az=76.0.
(723) Finland-Karelia border region
ISC VI 27 06 07 43.8–.74 66.07N–.02 29.28E–.02 0 146 0-9
NAO VI 27 06 07 42.6–1.6 66.04N 29.23E 2.5L **¶601482116**
ISCJB VI 27 06 07 43.4–.32 66.16N–.02 29.06E–.05 0 2.5L
IDC VI 27 06 07 43.4–2.2 65.98N 29.46E 0 2.7,2.7
BER VI 27 06 07 44.8–2.0 66.10N 29.37E 0 2.5L,2.0L
UPP VI 27 06 07 44.5–1.8 66.11N 29.07E 0 1.9L,2.0L
CSEM VI 27 06 07 44.2–.22 66.11N 29.11E 1 2.5L,2.0L
HEL VI 27 06 07 45.3–.00 66.05N 29.35E 24–0 2.5L,2.5L
KOLA VI 27 06 07 45.0 66.15N 29.21E 0 2.5L,2.5L
ISC Event type km.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
ISCJB Event type km. Error ellipse: s-maj=3.0km s-min=2.6km az=172.8.
IDC Error ellipse: s-maj=39.0km s-min=7.8km az=94.0.
BER Event type sh. Error ellipse: s-maj=4.0km s-min=27.8km az=-1.0. Suspected explosion.
UPP Event type sh. Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0. Suspected explosion.
CSEM Event type sm. Error ellipse: s-maj=4.6km s-min=4.2km az=77.0. Suspected Mining explosion.
HEL Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0.
KOLA Event type km.
(540) The Netherlands
ISC VI 27 15 48 07.6–.48 53.30N–.02 6.74E–.02 0 3.5b 386 0-78
ISCJB VI 27 15 48 05.8–.18 53.33N–.01 6.68E–.03 0 3.5b **¶16683862**
CSEM VI 27 15 48 07.9–.11 53.36N 6.72E 1 3.3L
IDC VI 27 15 48 09.2–1.0 53.25N 6.67E 0 3.8,3.7L
BGR VI 27 15 48 09.5–.39 53.34N 6.70E 1 3.4L,3.7L
LDG VI 27 15 48 10.1–.13 53.37N 6.60E 10 3.6L,3.7L
BNS VI 27 15 48 10.5–.36 53.26N 6.68E 3 2.9L,3.7L
PRU VI 27 15 48 10.2 53.75N 6.99E 19 2.9L,3.7L
UCC VI 27 15 48 11.6 53.38N 6.45E 10 3.7L,3.7L
NAO VI 27 15 48 12.6–4.8 53.59N 6.15E 19–22 3.2L,3.7L
STR VI 27 15 48 13.9–.84 53.14N 7.04E 12 3.8L,3.7L
UPP VI 27 15 48 13.2–2.6 53.55N 7.21E 0 3.0L,3.7L
ISC Event type ki.
ISCJB Event type sh. Error ellipse: s-maj=2.3km s-min=1.6km az=179.6.
CSEM Event type ki. Error ellipse: s-maj=3.1km s-min=2.3km az=98.0.
IDC Error ellipse: s-maj=15.8km s-min=11.1km az=76.0.
BGR Event type ki. Error ellipse: s-maj=5.6km s-min=3.3km az=119.0.
LDG Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=126.0.
BNS Event type ki.
UCC Event type ke.
NAO Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0.
STR Event type ke.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
(548) Poland
ISC VI 27 16 05 03.4–.91 51.60N–.04 16.00E–.03 0 36 1-4
ISCJB VI 27 16 05 02.1–.68 51.55N–.03 16.04E–.03 0 **¶16704442**
PRU VI 27 16 05 05.4 51.51N 16.01E 0
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=4.8km s-min=3.0km az=13.6.
PRU Event type ki.
(547) Czech and Slovak Republics
ISC VI 28 01 41 14.6–.84 49.81N–.04 18.53E–.02 0 47 0-3
ISCJB VI 28 01 41 13.6–.45 49.84N–.04 18.46E–.03 0 **¶16704451**
CSEM VI 28 01 41 14.3–.23 49.82N 18.51E 1 2.7L
IPEC VI 28 01 41 14.7–.18 49.83N 18.56E 0 1.6L
PRU VI 28 01 41 15.6 49.83N 18.46E 0 1.6L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.2km s-min=2.4km az=11.4.
CSEM Event type ki. Error ellipse: s-maj=6.6km s-min=2.9km az=6.0.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
PRU Event type ki.
(547) Czech and Slovak Republics
PRU VI 28 06 50 07.4 49.84N 18.49E 0
¶16704455
PRU Event type ki.
(543) Germany
ISC VI 28 09 58 21.8–.72 51.44N–.02 6.55E–.02 0 212 0-8
ISCJB VI 28 09 58 21.1–.36 51.48N–.02 6.48E–.03 0 **¶16692801**
BUG VI 28 09 58 22.1 51.51N 6.57E 1 2.8L
CSEM VI 28 09 58 22.6–.21 51.46N 6.57E 1 3.6L
BGR VI 28 09 58 23.7–.25 51.46N 6.64E 1 3.1L
LDG VI 28 09 58 23.0–.12 51.49N 6.63E 1 3.5L,3.2
BNS VI 28 09 58 23.8–.48 51.49N 6.66E 1–7 2.8L,3.2
UCC VI 28 09 58 24.9 51.49N 6.66E 0 2.8L,3.2
PRU VI 28 09 58 24.2 51.58N 6.70E 0 2.8L,3.2
ISC Event type ki.
ISCJB Event type sr. Error ellipse: s-maj=3.2km s-min=2.1km az=138.1.
GDNRW Event type fi.
CSEM Event type ki. Error ellipse: s-maj=4.1km s-min=2.9km az=145.0.
BGR Event type ki. Error ellipse: s-maj=3.3km s-min=2.2km az=121.0.
LDG Event type sr. Error ellipse: s-maj=2.7km s-min=1.8km az=142.0. Suspected Mining induced.
BNS Event type ki.
UCC Event type ki.
(329) Eastern Kazakhstan
NNC VI 28 10 22 58.6–.35 51.76N 75.30E 0 3.5b,3.1
¶17270266
NNC Event type sm. Error ellipse: s-maj=6.4km s-min=2.3km az=31.0. Suspected Mining explosion.
(548) Poland
ISC VI 28 11 44 35.4–.77 50.04N–.03 19.10E–.02 0 54 0-4
ISCJB VI 28 11 44 33.6–.59 50.15N–.04 19.03E–.03 0 **¶16704458**
CSEM VI 28 11 44 34.6–.35 50.16N 19.09E 2 2.9L
IPEC VI 28 11 44 35.1–.19 50.17N 19.14E 2–2 2.2L
WAR VI 28 11 44 35.5 50.09N 19.19E 1 2.5W
PRU VI 28 11 44 35.3 50.16N 19.09E 0 2.5W
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.7km s-min=2.4km az=14.5.
CSEM Event type ki. Error ellipse: s-maj=7.8km s-min=3.5km az=9.0.
IPEC Event type ki. Error ellipse: s-maj=2.8km s-min=1.1km az=166.0.
PRU Event type ki.
(548) Poland
ISC VI 28 12 46 57.3–.85 50.08N–.04 18.43E–.02 0 39 0-3
WAR VI 28 12 46 53.1 50.06N 18.05E 1 2.2W **¶16704460**
ISCJB VI 28 12 46 56.7–.59 50.04N–.04 18.38E–.03 0 2.2W
IPEC VI 28 12 46 57.3–.17 50.08N 18.45E 0–3 1.5L
CSEM VI 28 12 46 57.3–.26 50.06N 18.39E 1 2.5L
PRU VI 28 12 46 58.1 50.04N 18.41E 0 2.5L
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=5.8km s-min=2.9km az=4.1.
IPEC Event type ki. Error ellipse: s-maj=2.0km s-min=1.1km az=160.0.
CSEM Event type ki. Error ellipse: s-maj=5.7km s-min=2.9km az=4.0.
PRU Event type ki.
(329) Eastern Kazakhstan
NNC VI 28 13 33 26.8–.38 50.03N 78.68E 1–4 3.6b,3.3
¶17270278
NNC Event type sm. Error ellipse: s-maj=6.6km s-min=2.7km az=65.0. Suspected Mining explosion.
(383) Northwestern Balkan Peninsula
LJU VI 28 14 04 30.4 45.92N 14.19E 0 0.4L
CSEM VI 28 14 04 30.4 45.92N 14.19E 0 0.5L **¶601124943**
LJU Artificial.
CSEM Event type sm. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining explosion.
(366) Turkey
ISC VI 28 14 31 43.7–.79 39.95N–.03 33.51E–.03 0 33 1-2
ISK VI 28 14 31 42.4 40.04N 33.59E 26 2.5 **¶17556527**
DDA VI 28 14 31 44.0 40.03N 33.53E 7 2.7
ISCJB VI 28 14 31 44.1–.50 40.01N–.03 33.57E–.04 0 2.7
CSEM VI 28 14 31 44.3–.21 40.00N 33.56E 2 2.7
ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.8km s-min=3.6km az=0.1.
CSEM Event type sm. Error ellipse: s-maj=4.8km s-min=3.8km az=95.0. Suspected Mining explosion.
(366) Turkey
ISC VI 28 15 06 27.5–.81 40.19N–.02 27.73E–.02 0 56 0-2
ISCJB VI 28 15 06 27.4–.39 40.17N–.03 27.73E–.03 0 **¶17556530**
CSEM VI 28 15 06 27.5–.15 40.18N 27.73E 1 2.7
ISK VI 28 15 06 27.3 40.18N 27.73E 9 2.7
DDA VI 28 15 06 59.6 40.18N 27.76E 3 2.6
ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.0km s-min=3.1km az=31.7.
CSEM Event type sm. Error ellipse: s-maj=3.5km s-min=3.0km az=33.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.
(548) Poland
PRU VI 28 16 05 59.8 51.53N 16.09E 0
CSEM VI 28 16 06 01.4 51.47N 16.12E 0 **¶603482813**
PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
(548) Poland
ISC VI 28 16 06 32.9–.75 51.60N–.03 16.11E–.02 0 185 1-19
ISCJB VI 28 16 06 32.7–.41 51.49N–.02 16.05E–.02 0 **¶602729583**
CSEM VI 28 16 06 33.5–.28 51.55N 16.09E 0–1 3.6L
IDC VI 28 16 06 34.5–1.0 51.49N 16.01E 0 3.5,3.4
BGR VI 28 16 06 35.0–.37 51.49N 16.10E 1 3.2L,3.4
PRU VI 28 16 06 35.3 51.48N 16.08E 0 3.2L,3.4
ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.0km s-min=2.0km az=10.2.
CSEM Event type ki. Error ellipse: s-maj=4.5km s-min=2.5km az=11.0.
IDC Error ellipse: s-maj=22.6km s-min=8.8km az=126.0.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=19.0.
PRU Event type ki.
(548) Poland
ISC VI 28 16 09 13.3–2.4 51.5N–.10 16.09E–.06 0 28 1-2
CSEM VI 28 16 09 12.7–.48 51.53N 16.10E 1 2.9L **¶16704465**
PRU VI 28 16 09 14.0 51.49N 16.12E 0 2.9L
ISC Event type ki.
CSEM Event type ki. Error ellipse: s-maj=7.1km s-min=4.2km az=13.0.
PRU Event type ki.
(536) Sweden
ISC VI 28 17 04 14.4–.71 67.04N–.02 20.98E–.02 0 114 1-8
ISCJB VI 28 17 04 14.3–.35 67.03N–.02 21.09E–.07 0 **¶16714871**
UPP VI 28 17 04 14.8–.10 67.05N 20.97E 0 2.1L
NAO VI 28 17 04 15.3–.90 67.06N 21.11E 2.4L
CSEM VI 28 17 04 15.1–.21 67.05N 20.99E 2 2.1L
HEL VI 28 17 04 15.6–.10 67.06N 20.97E 0 2.3L,2.1L
IDC VI 28 17 04 15.5–1.1 67.04N 21.08E 0 2.8,2.7
BER VI 28 17 04 17.5–2.6 67.05N 20.77E 0 2.4L,1.7L
ISC Event type km.
ISCJB Event type km. Error ellipse: s-maj=3.8km s-min=2.7km az=7.3.
UPP Event type kh. Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Explosion.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type km. Error ellipse: s-maj=5.3km s-min=3.9km az=93.0. Mining explosion.
HEL Event type kh. Error ellipse: s-maj=0.7km s-min=1.0km az=-1.0. Explosion.
IDC Error ellipse: s-maj=17.7km s-min=8.7km az=106.0.
BER Event type sh. Error ellipse: s-maj=5.2km s-min=26.8km az=-1.0. Suspected explosion.
(548) Poland
ISC VI 28 23 15 47.3–.51 51.60N–.02 16.10E–.02 0 3.5b 351 1-84
ISCJB VI 28 23 15 46.4–.19 51.59N–.01 16.13E–.02 0 3.6s,3.5b **¶16692808**
MOS VI 28 23 15 47.7–1.2 51.65N 16.12E 10 4.0b,3.5b
LDG VI 28 23 15 47.3–.14 51.59N 16.17E 1 3.9L,3.5b
CSEM VI 28 23 15 48.5–.10 51.58N 16.11E 2 4.2L,3.8s
IDC VI 28 23 15 48.2–.67 51.62N 15.94E 0 3.7,3.6
BGR VI 28 23 15 49.7–.34 51.54N 16.11E 1 3.7L,3.6
VIE VI 28 23 15 49.9–.38 51.50N 16.11E 0 3.8s,3.5L
WAR VI 28 23 15 49.7 51.55N 16.11E 1 3.2W,3.5L
PRU VI 28 23 15 49.8 51.53N 16.11E 0 3.2W,3.5L
UPP VI 28 23 15 50.0–3.2 51.63N 15.58E 0 1.9L,3.5L
BNS VI 28 23 15 52.6–.38 51.62N 15.93E 10 3.6L,3.5L
ISC Event type sr.
ISCJB Event type sr. Error ellipse: s-maj=1.8km s-min=1.7km az=176.2.

MOS Error ellipse: s-maj=8.4km s-min=4.6km az=86.2.
LDG Event type sr. Error ellipse: s-maj=3.6km s-min=2.2km az=8.0. Suspected Mining induced.
CSEM Event type ki. Error ellipse: s-maj=2.1km s-min=2.0km az=28.0.
IDC Error ellipse: s-maj=11.4km s-min=7.1km az=112.0.
BGR Event type ki. Error ellipse: s-maj=4.4km s-min=2.2km az=17.0.
VIE Event type sr. Error ellipse: s-maj=4.0km s-min=3.0km az=72.0. Suspected Mining induced.
PRU Event type ki.
UPP Event type sh. Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0. Suspected explosion.
BNS Event type ki.

(366) Turkey

ISC	**VI**	**29 07 06 55.5–.85**	**39.07N–.03**	**27.52E–.03**	**0**		**30**	**1-2**
ISCJB	VI	29 07 06 56.6–.50	39.03N–.03	27.58E–.04	0			**¶17556562**
DDA	VI	29 07 06 56.3	39.07N	27.56E	7	2.7		
CSEM	VI	29 07 06 56.6–.41	39.02N	27.55E	1	2.7		
ISK	VI	29 07 06 56.8	39.03N	27.58E	11	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=3.4km az=35.6.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=9.2km s-min=7.2km az=109.0. Suspected Mining explosion.

(723) Finland-Karelia border region

ISC	**VI**	**29 08 07 42.2–1.4**	**61.04N–.04**	**28.94E–.05**	**16–9**		**48**	**1-9**
CSEM	VI	29 08 07 41.1–.57	61.06N	28.94E	1	2.2L		**¶603247103**
IDC	VI	29 08 07 41.2–2.3	60.97N	29.13E	0	3.2,3.1		
HEL	VI	29 08 07 42.7–.30	60.99N	28.99E	0	2.2L,3.1		
NAO	VI	29 08 07 43.4–1.9	61.07N	28.98E		2.3L,3.1		
BER	VI	29 08 07 44.0–4.5	61.14N	29.01E	0	2.3L,3.1		

ISC Event type ke.
CSEM Event type km. Error ellipse: s-maj=10.4km s-min=6.6km az=124.0. Mining explosion.
IDC Error ellipse: s-maj=19.9km s-min=12.1km az=151.0.
HEL Event type kh. Error ellipse: s-maj=1.3km s-min=4.3km az=-1.0. Explosion.
BER Event type sh. Error ellipse: s-maj=18.5km s-min=34.3km az=-1.0. Suspected explosion.

(329) Eastern Kazakhstan

ISC	**VI**	**29 10 03 58.5–1.2**	**49.90N–.05**	**81.37E–.08**	**0**		**10**	**2-5**
NNC	VI	29 10 04 02.7–2.5	49.70N	80.95E	0	2.9b,2.6		**¶17207185**
IDC	VI	29 10 04 04.8–1.1	49.82N	80.88E	0	2.7,2.7		

ISC Event type sm.
NNC Event type sm. Error ellipse: s-maj=43.6km s-min=9.9km az=51.0. Suspected Mining explosion.
IDC Error ellipse: s-maj=18.2km s-min=8.8km az=55.0.

(366) Turkey

ISC	**VI**	**29 10 18 49.1–.83**	**37.25N–.03**	**28.14E–.03**	**0**		**34**	**0-2**
DDA	VI	29 10 18 48.9	37.22N	28.19E	7	2.8		**¶17556573**
ISCJB	VI	29 10 18 49.4–.48	37.24N–.03	28.21E–.03	0	2.8		
ISK	VI	29 10 18 49.3	37.22N	28.21E	7	2.6L		
CSEM	VI	29 10 18 49.6–.23	37.24N	28.21E	1	2.6L		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=4.5km s-min=3.7km az=8.9.
CSEM Event type sm. Error ellipse: s-maj=5.7km s-min=4.4km az=1.0. Suspected Mining explosion.

(374) Jordan-Syria region

ISC	**VI**	**29 10 41 27.7–.94**	**36.46N–.03**	**36.91E–.06**	**0**		**18**	**0-2**
NSSC	VI	29 10 41 27.4–1.3	36.55N	36.95E	0–9	2.1L,0.9		**¶601587778**
DDA	VI	29 10 41 27.4	36.45N	36.99E	7	2.9,0.9		
ISCJB	VI	29 10 41 28.2–.62	36.50N–.02	36.94E–.05	0	2.9,0.9		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm.

(366) Turkey

ISC	**VI**	**29 11 13 03.3–.86**	**37.14N–.03**	**28.63E–.04**	**0**		**27**	**0-1**
ISK	VI	29 11 13 01.8	37.14N	28.66E	5	2.2L		**¶17556575**
ISCJB	VI	29 11 13 03.9–.63	37.13N–.04	28.54E–.04	0	2.2L		
DDA	VI	29 11 13 03.5	37.07N	28.53E	7	2.7		
CSEM	VI	29 11 13 03.3–.37	37.12N	28.57E	1	2.2L		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=6.1km s-min=4.2km az=28.5.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=8.9km s-min=6.6km az=32.0. Suspected Mining explosion.

(547) Czech and Slovak Republics

ISC	**VI**	**29 13 12 18.1–.66**	**49.87N–.02**	**18.45E–.01**	**0**		**159**	**0-12**
ISCJB	VI	29 13 12 17.6–.31	49.85N–.02	18.34E–.02	0			**¶16704481**
IPEC	VI	29 13 12 18.4–.18	49.83N	18.54E	0–3	2.7L		
IDC	VI	29 13 12 19.6–1.0	49.81N	18.46E	0	3.1,3.0		
BGR	VI	29 13 12 19.6–.42	49.88N	18.46E	1	3.1L,3.0		
CSEM	VI	29 13 12 19.1–.17	49.83N	18.39E	2	3.5L,3.0		

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=3.4km s-min=1.8km az=13.5.
IPEC Event type ki. Error ellipse: s-maj=2.1km s-min=1.1km az=161.0.
IDC Error ellipse: s-maj=19.8km s-min=8.0km az=151.0.
BGR Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=173.0.
CSEM Event type ki. Error ellipse: s-maj=4.6km s-min=2.4km az=15.0.

(548) Poland

PRU	**VI**	**29 16 08 20.0**	**50.14N**	**19.15E**	**0**			**¶16704484**

PRU Event type ki.

(548) Poland

PRU	**VI**	**29 16 09 19.5**	**50.10N**	**18.41E**	**0**			
CSEM	VI	29 16 09 19.4–.49	50.09N	18.42E	1			**¶16704487**

PRU Event type ki.
CSEM Event type ki. Error ellipse: s-maj=8.7km s-min=3.8km az=38.0.

(548) Poland

ISC	**VI**	**29 19 49 22.8–.92**	**50.23N–.05**	**18.74E–.02**	**0**		**37**	**0-4**
ISCJB	VI	29 19 49 22.2–.58	50.25N–.04	18.73E–.03	0			**¶16704493**
CSEM	VI	29 19 49 22.6–.31	50.28N	18.75E	2			
PRU	VI	29 19 49 22.9	50.29N	18.76E	0			

ISC Event type ki.
ISCJB Event type ki. Error ellipse: s-maj=6.0km s-min=2.9km az=177.6.
CSEM Event type ki. Error ellipse: s-maj=7.8km s-min=3.3km az=178.0.
PRU Event type ki.

(366) Turkey

ISC	**VI**	**30 08 49 26.3–1.2**	**37.32N–.06**	**28.03E–.05**	**0**		**12**	**0-1**
ISCJB	VI	30 08 49 27.5–.85	37.38N–.05	28.06E–.05	0			**¶601587840**
DDA	VI	30 08 49 27.6	37.34N	28.04E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.3km s-min=3.9km az=34.1.
DDA Event type sm. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**30 08 50 16.1–1.1**	**37.33N–.05**	**28.27E–.05**	**0**		**22**	**0-1**
ISK	VI	30 08 50 14.7	37.05N	28.32E	22	2.7		**¶602863719**
ISCJB	VI	30 08 50 16.8–.90	37.24N–.05	28.22E–.05	0	2.7		
DDA	VI	30 08 50 16.6	37.21N	28.20E	7	2.7		
CSEM	VI	30 08 50 17.6–.56	37.13N	28.19E	1	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=8.8km s-min=4.0km az=33.0.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=14.2km s-min=8.8km az=174.0. Suspected Mining explosion.

(366) Turkey

ISC	**VI**	**30 09 12 34.0–.82**	**40.31N–.02**	**27.86E–.02**	**0**		**72**	**0-2**
ISCJB	VI	30 09 12 33.7–.34	40.30N–.03	27.87E–.02	0			**¶17556625**
CSEM	VI	30 09 12 33.9–.14	40.32N	27.88E	1	2.7		
ISK	VI	30 09 12 33.8	40.32N	27.86E	8	2.7		
DDA	VI	30 09 12 34.1	40.32N	27.85E	7	2.7		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=4.1km s-min=2.6km az=8.0.
CSEM Event type sm. Error ellipse: s-maj=3.9km s-min=2.6km az=5.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(548) Poland

PRU	**VI**	**30 11 25 38.8**	**50.23N**	**18.58E**	**0**			**¶16704501**

PRU Event type ki.

(359) Bulgaria

ISC	**VI**	**30 12 14 26.9–.84**	**42.69N–.03**	**24.23E–.03**	**0**		**46**	**1-4**
THE	VI	30 12 14 27.9	42.69N	24.14E	1–8	2.5L		**¶601078723**
ISCJB	VI	30 12 14 29.2–.49	42.62N–.03	24.06E–.04	0	2.5L		
BEO	VI	30 12 14 29.8–.40	42.45N	24.04E	0	2.2		
CSEM	VI	30 12 14 29.4–.31	42.55N	24.04E	2	2.2L		

ISC Event type km.
THE Event type ke. Error ellipse: s-maj=14.2km s-min=0.6km az=25.0.
ISCJB Event type km. Error ellipse: s-maj=4.6km s-min=4.0km az=159.2.
BEO Event type km. Mining explosion.
CSEM Event type km. Error ellipse: s-maj=7.8km s-min=6.5km az=29.0. Mining explosion.

(366) Turkey

ISC	**VI**	**30 16 21 29.8–.81**	**37.07N–.03**	**27.61E–.03**	**0**		**36**	**0-2**
ISCJB	VI	30 16 21 30.9–.60	37.04N–.03	27.56E–.04	0			**¶17556637**
ISK	VI	30 16 21 30.8	37.08N	27.41E	18	2.6		
CSEM	VI	30 16 21 31.5–.50	37.04N	27.45E	1	2.6		
DDA	VI	30 16 21 32.0	37.07N	27.49E	6	2.3		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.0km s-min=4.4km az=161.6.
CSEM Event type sm. Error ellipse: s-maj=11.7km s-min=10.7km az=142.0. Suspected Mining explosion.
DDA Event type sm. Suspected Mining explosion.

(369) Dodecanese Islands

ISC	**VI**	**30 16 31 11.1–.90**	**36.97N–.02**	**27.45E–.04**	**0**		**28**	**0-2**
DDA	VI	30 16 31 10.9	36.98N	27.49E	6	2.1		**¶17556638**
ISCJB	VI	30 16 31 11.3–.59	36.97N–.03	27.43E–.06	0	2.1		
CSEM	VI	30 16 31 11.5–.19	36.98N	27.39E	2	2.8		
ISK	VI	30 16 31 11.2	36.98N	27.39E	6	2.8		

ISC Event type sm.
DDA Event type sm. Suspected Mining explosion.
ISCJB Event type sm. Error ellipse: s-maj=6.4km s-min=4.2km az=5.3.
CSEM Event type sm. Error ellipse: s-maj=5.1km s-min=4.1km az=90.0. Suspected Mining explosion.

(369) Dodecanese Islands

ISC	**VI**	**30 16 33 23.9–.88**	**37.03N–.03**	**27.59E–.03**	**0**		**32**	**0-2**
ISCJB	VI	30 16 33 23.1–.58	36.98N–.04	27.63E–.04	0			**¶17556639**
DDA	VI	30 16 33 25.4	37.00N	27.49E	5	2.3		
CSEM	VI	30 16 33 25.4–.29	37.02N	27.39E	1	2.8		
ISK	VI	30 16 33 25.1	37.02N	27.39E	12	2.8		

ISC Event type sm.
ISCJB Event type sm. Error ellipse: s-maj=5.3km s-min=4.4km az=19.8.
DDA Event type sm. Suspected Mining explosion.
CSEM Event type sm. Error ellipse: s-maj=7.4km s-min=6.4km az=99.0. Suspected Mining explosion.

REGIONAL CATALOGUE OF EVENTS

SEISMIC REGION 1.
Alaska-Aleutian Arc.

(1) Central Alaska.

ISC I 23 02 50 05.5–.44 63.51N–.02 150.82W–.02 14–2 5.1b,4.7s 1020 0-164
BJI I 23 02 50 01.3 63.50N 150.80W 10 5.5s,5.2b ¶15959234
MOS I 23 02 50 03.4–.99 63.58N 150.94W 13 5.2b,4.6s
IDC I 23 02 50 03.9–.39 63.60N 150.88W 0 4.7,4.6L
ISCJB I 23 02 50 03.6–.52 63.56N–.01 150.88W–.03 12–3 5.0b,4.7s
NEIC I 23 02 50 04.6 63.54N 150.87W 16 5.4L,5.1W
GCMT I 23 02 50 04.6–.10 63.57N 150.89W 18–1 5.2W,5.1W
ISC Event type fe.
MOS Error ellipse: s-maj=9.2km s-min=4.2km az=102.0.
IDC Error ellipse: s-maj=9.4km s-min=7.0km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=18.1.
NEIC Event type fe. Felt [IV] at Cantwell and Talkeetna; [III] at Denali National Park, Fairbanks, Healy and Nenana; [II] at Eagle River, Fort Wainwright, North Pole, Wasilla and Willow. Also felt at Anchorage, Chugiak, Clear, Delta Junction, Eielson AFB, Ester, Palmer, Skwentna and Trapper Creek. After AEIC. Moment Tensor Solution. s25 Moment tensor: Scale 10^{16}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.90 $M_{\phi\phi}$0.90 $M_{r\theta}$0.08 $M_{\theta\phi}$-5.09 $M_{\phi r}$0.91 Best double couple: NP1:ϕ_s275.00000°,δ80.00000°,λ-180.00000°. NP2:ϕ_s185.00000°,δ90.00000°,λ-10.00000°. Principal axes: T 5.2500,Plg7.0000°,Azm230.0000°; N 0.0000,Plg80.0000°,Azm5.0000°; P -5.2500,Plg7.0000°,Azm140.0000° $M_0$5.30000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c102; s106,c186; Duration: 1$\pm$0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.10$\pm$.18 $M_{\theta\theta}$0.51$\pm$.20; $M_{\phi\phi}$0.58$\pm$.17; $M_{r\theta}$-0.46$\pm$.40; $M_{\theta\phi}$-9.04$\pm$.15; $M_{\phi r}$0.90$\pm$.36; Best double couple: NP1:ϕ_s0.00000°,δ88.00000°,λ5.00000°. NP2:ϕ_s270.00000°,δ85.00000°,λ178.00000°. Principal axes: T 9.6740,Plg5.0000°,Azm225.0000°; N -1.1730,Plg84.0000°,Azm20.0000°; P -8.5040,Plg2.0000°,Azm135.0000° $M_0$9.08900×10^{16}

ISC I 23 23 37 50.6–.73 63.54N–.02 150.88W–.02 14–4 5.0b 128 0-69
BJI I 23 23 37 48.0 63.60N 150.80W 8 5.0b,4.9b ¶16328466
ISCJB I 23 23 37 50.2–.28 63.55N–.02 150.91W–.04 23–2 4.9b,4.9b
NEIC I 23 23 37 50.4 63.54N 150.88W 16 5.0b,4.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.9km az=10.9.
NEIC Event type se. After AEIC.

ISC II 01 20 54 51.8–1.1 63.01N–.02 143.88W–.02 1–8 3.9b,3.2s 127 1-85
NEIC II 01 20 54 52.3 63.01N 143.91W 4 3.9W,3.8L ¶15996060
IDC II 01 20 54 52.7–.65 63.17N 143.69W 0 4.1,3.9
PGC II 01 20 54 53.1–.02 62.99N 143.90W 5 4.0L,3.9W
ISC Event type fe.
NEIC Event type fe. Felt at Tok. After AEIC. Moment Tensor Solution. $M_0$8.10000×10^{14}
IDC Error ellipse: s-maj=14.9km s-min=8.0km az=37.0.
PGC Event type ke. 243km northeast of Valdez, Ak Central Alaska.

ISC II 02 13 53 22.0–.64 63.45N–.04 149.82W–.03 112–5 4.1b 114 0-79
ISCJB II 02 13 53 21.0–.20 63.46N–.02 149.85W–.05 119–2 3.9b ¶16026081
IDC II 02 13 53 21.8–1.7 63.48N 149.93W 107–17 4.0,3.7
NEIC II 02 13 53 22.5 63.44N 149.83W 111 4.1b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.1km az=41.8.
IDC Error ellipse: s-maj=17.8km s-min=15.8km az=19.0.
NEIC Event type se. After AEIC.

NEIC II 05 07 35 45.5 63.31N 151.51W 17 3.5L
¶602064413
NEIC Event type se. After AEIC.

ISC II 05 17 52 38.9–1.1 63.36N–.02 145.44W–.03 7–7 4.0b 106 0-145
ISCJB II 05 17 52 38.7–.49 63.38N–.02 145.35W–.04 9–3 3.9b ¶16016424
NEIC II 05 17 52 38.9 63.34N 145.41W 5 3.9b,3.7L
IDC II 05 17 52 41.3–1.7 63.57N 145.46W 17–11 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.6km az=156.6.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=12.8km s-min=11.6km az=17.0.

ISC II 08 05 40 38.0–1.2 63.43N–.03 151.48W–.02 1–10 58 0-46
ISCJB II 08 05 40 37.7–.52 63.44N–.03 151.51W–.05 7–4 2.9b ¶16328783
NEIC II 08 05 40 38.4 63.41N 151.49W 9 2.9L
IDC II 08 05 40 41.1–1.8 63.61N 151.38W 0 3.4,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.5km az=139.6.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=27.5km s-min=12.5km az=121.0.

ISC II 12 04 07 37.5–.66 63.54N–.03 147.89W–.03 82–6 3.9b 103 0-66
ISCJB II 12 04 07 36.4–.21 63.55N–.02 147.83W–.05 92–3 3.8b ¶16196335
NEIC II 12 04 07 37.5 63.53N 147.84W 81 3.6
IDC II 12 04 07 37.6–1.4 63.65N 148.15W 80–12 3.9,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.2km az=176.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=17.5km s-min=11.3km az=57.0.

ISC II 13 13 43 37.8–.90 63.16N–.04 150.69W–.04 136–6 64 0-63
IDC II 13 13 43 37.0–2.1 63.25N 150.97W 114–24 3.3,3.0 ¶16398112
ISCJB II 13 13 43 37.5–.39 63.19N–.03 150.64W–.07 134–4 3.2b,3.0
NEIC II 13 13 43 38.7 63.19N 150.66W 128 2.8,3.0
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=18.3km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.4km az=12.4.
NEIC Event type se. After AEIC.

ISC II 16 18 12 53.8–.83 62.98N–.03 149.67W–.03 92–6 3.8b 100 0-54
IDC II 16 18 12 51.8–1.4 62.94N 149.71W 66–21 3.9,3.8 ¶16339753
ISCJB II 16 18 12 52.8–.24 62.99N–.02 149.64W–.05 99–3 3.6b,3.8
NEIC II 16 18 12 54.0 62.99N 149.69W 88 3.6,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=9.7km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.2km az=21.2.
NEIC Event type fe. Felt at Cantwell. After AEIC.

ISC II 19 08 55 54.4–.76 62.44N–.03 151.24W–.03 88–6 3.6b 107 0-67
IDC II 19 08 55 52.5–2.3 62.56N 151.53W 67–20 3.6,3.5 ¶16196342
ISCJB II 19 08 55 53.2–.22 62.45N–.02 151.20W–.05 96–3 3.5b,3.5
NEIC II 19 08 55 55.4 62.44N 151.20W 81 3.6,3.5
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=14.0km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.9km az=21.7.
NEIC Event type se. After AEIC.

ISC II 26 16 11 24.8–1.2 63.60N–.02 147.83W–.03 4–9 3.8b 75 1-66
IDC II 26 16 11 23.9–1.1 63.64N 148.20W 0 3.8,3.6 ¶16398995
ISCJB II 26 16 11 25.7–.55 63.59N–.02 147.74W–.05 10–4 3.7b,3.6
NEIC II 26 16 11 26.0 63.58N 147.70W 8 3.6L,3.6
ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=15.5km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=178.6.
NEIC Event type fe. Felt at Anchorage, Cantwell, Fairbanks and Healy. After AEIC.

ISC III 05 20 12 05.3–.82 63.11N–.03 150.55W–.04 126–6 3.5b 79 0-63
IDC III 05 20 12 04.7–1.7 63.12N 150.52W 117–25 3.5,3.2 ¶16403013
ISCJB III 05 20 12 04.8–.29 63.14N–.02 150.53W–.06 129–3 3.4b,3.2
NEIC III 05 20 12 06.4 63.12N 150.54W 117 3.0,3.2
ISC Event type se.
IDC Error ellipse: s-maj=37.0km s-min=18.0km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.7km az=26.6.
NEIC Event type se. After AEIC.

ISC III 19 02 31 07.9–.92 62.90N–.02 143.64W–.02 9–7 90 0-6
NEIC III 19 02 31 08.5 62.91N 143.66W 9 2.6L ¶16479299
PGC III 19 02 31 08.3–.02 62.85N 143.68W 1 2.8L
ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. 236km Ene of Valdez, Ak Central Alaska.

ISC III 20 19 52 04.1–.83 62.92N–.03 143.74W–.02 12–5 79 0-5
PGC III 20 19 52 03.8–.02 62.86N 143.69W 5 2.8L ¶16512191
NEIC III 20 19 52 04.2 62.92N 143.74W 10 2.5L
ISC Event type ke.
PGC Event type ke. 237km Ene of Valdez, Ak Central Alaska.
NEIC Event type se. After AEIC.

ISC III 25 14 19 36.9–.32 62.68N–.03 151.54W–.04 100 4.6b 313 0-146
ISCJB III 25 14 19 35.8–.14 62.81N–.02 151.67W–.04 100 4.6b ¶603049253
MOS III 25 14 19 36.7–.86 62.76N 151.69W 113 4.8b
NEIC III 25 14 19 38.3 62.66N 151.48W 118 4.6b,4.3W
IDC III 25 14 19 39.2–1.5 62.87N 151.50W 117–11 4.5,4.2
BJI III 25 14 19 40.2 63.39N 152.14W 123 5.0b,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=147.2.
MOS Error ellipse: s-maj=12.4km s-min=5.3km az=95.5.
NEIC Event type fe. Felt [III] at Anchorage and [II] at Eagle River and Talkeetna. Also felt at Elmendorf AFB, Fort Richardson, Palmer and Trapper Creek. After AEIC. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.10 $M_{\theta\theta}$0.16 $M_{\phi\phi}$0.95 $M_{r\theta}$-3.07 $M_{\theta\phi}$2.70 $M_{\phi r}$-0.06 Best double couple: NP1:ϕ_s182.00000°,δ41.00000°,λ-165.00000°. NP2:ϕ_s80.00000°,δ80.00000°,λ-50.00000°. Principal axes: T 4.2200,Plg24.0000°,Azm140.0000°; N 0.0000,Plg39.0000°,Azm252.0000°; P -4.2100,Plg41.0000°,Azm27.0000° $M_0$4.20000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=8.5km az=32.0.

ISC III 26 08 55 20.9–1.1 63.60N–.02 147.30W–.03 8–8 4.0b 78 1-66
IDC III 26 08 55 19.5–1.1 63.59N 147.66W 0 3.7,3.7b ¶16452786
ISCJB III 26 08 55 20.4–.51 63.59N–.02 147.31W–.04 2–4 3.8b,3.7b
NEIC III 26 08 55 21.2 63.56N 147.30W 7 3.3L,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=12.9km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.8km az=171.0.
NEIC Event type se. After AEIC.

ISC III 28 12 24 32.8–.69 63.84N–.03 149.03W–.04 124–5 3.8b 115 0-144
ISCJB III 28 12 24 31.8–.24 63.85N–.02 148.99W–.05 130–2 3.6b ¶16475513
NEIC III 28 12 24 33.4 63.83N 149.00W 120 3.7
IDC III 28 12 24 33.3–1.6 64.01N 149.28W 122–12 3.8,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=32.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=25.0km s-min=17.4km az=13.0.

ISC III 30 00 56 27.7–1.3 64.10N–.02 147.48W–.03 1–10 3.5b 80 0-144
IDC III 30 00 56 26.8–1.2 63.96N 147.66W 0 3.8,3.5 ¶16427661
ISCJB III 30 00 56 29.0–.47 64.05N–.02 147.46W–.06 9–4 3.5b,3.1s
NEIC III 30 00 56 29.4 64.02N 147.46W 11 3.4L,3.4W
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=10.5km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.9km az=10.6.
NEIC Event type se. After AEIC. Moment Tensor Solution. s23 Moment tensor: Scale 10^{14}Nm; M_{rr}0.67 $M_{\theta\theta}$-0.99 $M_{\phi\phi}$0.32 $M_{r\theta}$1.07 $M_{\theta\phi}$0.39 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s255.00000°,δ23.00000°,λ40.00000°. NP2:ϕ_s127.00000°,δ75.00000°,λ108.00000°. Principal axes: T 1.5200,Plg56.0000°,Azm60.0000°; N 0.2500,Plg17.0000°,Azm302.0000°; P -1.7700,Plg28.0000°,Azm203.0000° $M_0$1.70000×10^{14}

ISC IV 02 18 18 54.9–.82 63.57N–.03 150.82W–.02 11–5 81 0-62
ISCJB IV 02 18 18 53.7–.31 63.56N–.02 150.86W–.04 13–2 3.4b ¶16577638
NEIC IV 02 18 18 54.0 63.55N 150.85W 12 3.1L
IDC IV 02 18 18 55.8–1.6 63.58N 150.76W 0 3.5,3.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=3.2km az=157.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=19.9km s-min=15.7km az=159.0.

ISC IV 04 12 26 49.0–.80 62.93N–.03 143.64W–.02 15–5 91 0-13
ISCJB IV 04 12 26 48.2–.49 62.93N–.02 143.43W–.04 9–4 ¶16577656
NEIC IV 04 12 26 49.4 62.92N 143.61W 11 3.2L
PGC IV 04 12 26 49.5–.02 62.84N 143.66W 5 3.4L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=31.6.
NEIC Event type fe. Felt at Tok. After AEIC.
PGC Event type ke. 236km Ene of Valdez, Ak Central Alaska.

ISC IV 05 00 26 43.1–.43 62.50N–.03 148.31W–.04 59–3 4.0b 140 1-146
ISCJB IV 05 00 26 41.8–.18 62.48N–.02 148.25W–.04 68–3 3.8b ¶16424620
NEIC IV 05 00 26 43.0 62.47N 148.23W 40 4.2b,4.1L
IDC IV 05 00 26 43.1–.52 62.58N 148.58W 58–3 3.8,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.9km az=176.3.
NEIC Event type fe. Felt [II] at Eagle River. Also felt at Anchorage, Chugiak, Palmer and Talkeetna. After AEIC.
IDC Error ellipse: s-maj=10.8km s-min=9.6km az=91.0.

ISC IV 07 16 40 50.8–.41 63.94N–.03 148.77W–.03 124–3 4.4b 460 0-144
BJI IV 07 16 40 47.0 64.32N 148.66W 104 5.3b,4.5b ¶16413601
ISCJB IV 07 16 40 49.5–.14 63.98N–.02 148.78W–.04 123–1 4.4b,4.5b
MOS IV 07 16 40 49.0–.89 64.01N 148.86W 119 4.5b,4.5b
NEIC IV 07 16 40 51.2 63.90N 148.63W 115 4.4b,4.5b
IDC IV 07 16 40 51.5–.74 64.08N 148.87W 123–6 4.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.5km az=32.8.
MOS Error ellipse: s-maj=13.0km s-min=5.2km az=96.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=11.4km s-min=7.7km az=23.0.

ISC IV 08 12 29 13.7–1.1 63.58N–.02 147.40W–.02 8–8 66 1-145
IDC IV 08 12 29 12.8–1.4 63.55N 147.47W 0 3.7,3.5 ¶16577752
ISCJB IV 08 12 29 13.4–.70 63.56N–.02 147.39W–.05 8–6 3.6b,3.5
NEIC IV 08 12 29 14.1 63.54N 147.40W 8 3.6L,3.6W
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=12.9km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.3km az=177.7.
NEIC Event type se. After AEIC. Moment Tensor Solution. s24 Moment tensor: Scale 10^{14}Nm; M_{rr}1.55 $M_{\theta\theta}$-2.70 $M_{\phi\phi}$1.16 $M_{r\theta}$-0.76 $M_{\theta\phi}$-1.97 $M_{\phi r}$1.15 Best double couple: NP1:ϕ_s284.00000°,δ65.00000°,λ147.00000°. NP2:ϕ_s30.00000°,δ60.00000°,λ29.00000°. Principal axes: T 3.1400,Plg41.0000°,Azm245.0000°; N 0.4100,Plg49.0000°,Azm72.0000°; P -3.5400,Plg3.0000°,Azm338.0000° $M_0$3.40000×10^{14}

IDC IV 19 00 32 13.3–230 64.85N 147.62W 0
¶17201456
IDC Error ellipse: s-maj=109.0km s-min=3.1km az=104.0.

ISC IV 20 02 49 04.5–.81 63.94N–.03 148.96W–.03 10 39 0-31
ISCJB IV 20 02 49 04.5–.33 63.95N–.03 148.97W–.07 10 3.3b ¶16577853
NEIC IV 20 02 49 04.3 63.94N 148.97W 0 2.5L
IDC IV 20 02 49 06.1–2.4 64.03N 148.82W 0 3.5,3.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.3km az=28.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=18.7km s-min=16.3km az=66.0.

ISC IV 30 11 14 18.8–.00 63.25N–.03 145.13W–.02 10–9 48 0-7
NEIC IV 30 11 14 19.3 63.26N 145.16W 6 2.7L ¶16487919
PGC IV 30 11 14 19.8 63.20N 145.12W 9–0 2.6L
ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. 221km Ese of Fairbanks, Ak Central Alaska.

ISC V 02 03 32 22.8–.84 62.98N–.03 150.95W–.04 121–6 3.6b 88 1-63
ISCJB V 02 03 32 22.1–.30 62.98N–.02 150.92W–.06 125–3 3.6b ¶16577951
IDC V 02 03 32 22.8–6.0 63.37N 151.47W 90–49 3.4,3.3
NEIC V 02 03 32 23.4 62.99N 150.93W 114 3.1,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.8km az=15.7.
IDC Error ellipse: s-maj=52.7km s-min=22.1km az=48.0.
NEIC Event type se. After AEIC.

IDC V 17 02 11 12.3–3.2 63.88N 149.17W 0 3.4,3.2
¶17203785
IDC Error ellipse: s-maj=29.8km s-min=14.8km az=44.0.

ISC V 28 13 44 01.4–.41 63.40N–.03 151.26W–.03 10 4.2b 125 0-82
ISCJB V 28 13 43 59.9–.21 63.40N–.02 151.24W–.04 10 4.2b,3.5s ¶16577343

NEIC V 28 13 44 00.3 63.40N 151.32W 13 4.4b,4.0L
IDC V 28 13 44 01.3–.63 63.33N 150.97W 0 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.7km az=179.8.
NEIC Event type se. After AEIC. Moment Tensor Solution. s47 Moment tensor: Scale 10^{14}Nm; M_{rr}4.39 $M_{\theta\theta}$-4.40 $M_{\phi\phi}$0.01 $M_{r\theta}$-0.99 $M_{\theta\phi}$-2.82 $M_{\phi r}$-3.68 Best double couple: NP1:ϕ_s90.00000° ,δ39.00000°,λ136.00000°. NP2:ϕ_s217.00000°,δ64.00000°,λ60.00000°. Principal axes: T 6.5100,Plg59.0000°,Azm84.0000°; N -0.1000,Plg27.0000°,Azm231.0000° ; P -6.4200,Plg14.0000°,Azm329.0000° M_o6.50000×10^{14}
IDC Error ellipse: s-maj=12.8km s-min=9.5km az=175.0.

ISC	**V**	**31 08 24 57.3–.97**	**62.63N–.03**	**149.74W–.03**	**68–8**		**115**	**0-45**
ISCJB	V	31 08 24 55.7–.24	62.62N–.02	149.72W–.04	84–4	3.0b		**¶16632932**
NEIC	V	31 08 24 56.6	62.62N	149.75W	74	3.5		
IDC	V	31 08 24 57.6–7.5	62.77N	149.82W	75–76	3.5,3.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=16.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=61.2km s-min=38.0km az=28.0.

ISC	**VI**	**16 06 13 15.6–1.2**	**63.58N–.03**	**147.74W–.03**	**1–9**	**3.7b**	**63**	**1-73**
IDC	VI	16 06 13 15.5–1.1	63.60N	148.00W	0	3.8,3.7b		**¶16730673**
ISCJB	VI	16 06 13 17.3–.40	63.59N–.02	147.62W–.05	21–4	3.7b,3.7b		
NEIC	VI	16 06 13 17.0	63.53N	147.63W	13	3.5L,3.7b		

ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=14.8km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.4km az=146.6.
NEIC Event type se. After AEIC.

ISC	**VI**	**18 20 40 28.3–.74**	**62.09N–.03**	**148.32W–.03**	**42–7**	**4.3b,3.3s**	**225**	**0-146**
ISCJB	VI	18 20 40 27.8–.16	62.09N–.02	148.31W–.03	54–2	4.3b,3.4s		**¶16632950**
NEIC	VI	18 20 40 29.4	62.08N	148.26W	29	4.5b,4.1W		
IDC	VI	18 20 40 32.1–2.5	62.25N	148.38W	74–20	4.0,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=15.5.
NEIC Event type fe. Felt [II] at Palmer. Also felt at Girdwood and Valdez. After AEIC. Moment Tensor Solution. s47 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.70 $M_{\theta\theta}$1.02 $M_{\phi\phi}$0.68 $M_{r\theta}$-0.24 $M_{\theta\phi}$0.89 $M_{\phi r}$0.62 Best double couple: NP1:ϕ_s212.00000°,δ51.00000°,λ-114.00000°. NP2: ϕ_s68.00000°,δ44.00000°,λ-63.00000°. Principal axes: T 1.7700,Plg4.0000°,Azm319.0000° ; N 0.1600,Plg18.0000°,Azm228.0000°; P -1.9200,Plg71.0000°,Azm60.0000° M_o1.90000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=12.7km az=30.0.

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ISC	**I**	**04 13 33 50.0–.77**	**60.20N–.04**	**153.12W–.04**	**155–6**	**3.6b**	**91**	**0-64**
ISCJB	I	04 13 33 49.2–.31	60.21N–.03	153.14W–.07	157–3	3.5b		**¶15964341**
IDC	I	04 13 33 49.0–1.6	60.20N	153.40W	133–28	3.7,3.3		
NEIC	I	04 13 33 51.0	60.20N	153.14W	152	3.0,3.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.8km az=34.2.
IDC Error ellipse: s-maj=35.6km s-min=17.1km az=115.0.
NEIC Event type se. After AEIC.

ISC	**I**	**08 03 54 30.7–.83**	**61.96N–.03**	**147.95W–.03**	**36–1**	**3.5b**	**124**	**0-68**
ISCJB	I	08 03 54 30.8–.18	61.95N–.02	147.96W–.04	58–4	3.6b		**¶15998078**
IDC	I	08 03 54 30.7–1.4	61.92N	148.03W	50–17	3.5,3.5		
NEIC	I	08 03 54 32.4	61.95N	147.95W	30	3.5L,3.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.8km az=173.1.
IDC Error ellipse: s-maj=25.4km s-min=9.1km az=108.0.
NEIC Event type se. After AEIC.

ISC	**I**	**11 05 52 24.3–.85**	**60.74N–.03**	**146.92W–.02**	**20–3**		**85**	**0-43**
IDC	I	11 05 52 20.0–2.8	60.44N	147.98W	0	3.9,3.5		**¶16032755**
ISCJB	I	11 05 52 24.1–.33	60.78N–.02	146.89W–.04	28–3	3.2b,3.5		
NEIC	I	11 05 52 25.6	60.80N	146.83W	18	3.4L,3.5		

ISC Event type se.
IDC Error ellipse: s-maj=50.8km s-min=14.9km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=0.6.
NEIC Event type se. After AEIC.

ISC	**I**	**11 14 13 42.2–.78**	**60.30N–.03**	**152.34W–.04**	**110–6**	**3.4b**	**109**	**0-64**
ISCJB	I	11 14 13 41.2–.27	60.30N–.02	152.33W–.05	119–3	3.4b		**¶15998102**
IDC	I	11 14 13 41.6–2.0	60.33N	152.56W	94–22	3.5,3.3		
NEIC	I	11 14 13 43.5	60.30N	152.36W	106	3.2,3.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.6km az=30.7.
IDC Error ellipse: s-maj=23.0km s-min=20.5km az=60.0.
NEIC Event type se. After AEIC.

ISC	**I**	**15 07 26 56.4–.64**	**59.73N–.03**	**152.97W–.04**	**106–5**	**4.1b**	**139**	**0-149**
ISCJB	I	15 07 26 54.9–.20	59.72N–.02	152.94W–.04	112–2	4.1b		**¶16007273**
IDC	I	15 07 26 54.8–1.2	59.73N	153.30W	88–13	4.2,4.0		
NEIC	I	15 07 26 57.3	59.70N	152.94W	99	3.9,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=138.4.
IDC Error ellipse: s-maj=14.5km s-min=11.1km az=64.0.
NEIC Event type fe. Felt at Homer. After AEIC.

ISC	**I**	**19 14 03 03.7–1.0**	**60.05N–.04**	**152.79W–.05**	**111–7**		**80**	**0-55**
ISCJB	I	19 14 03 02.9–.37	60.04N–.03	152.76W–.06	118–4	3.6b		**¶16009131**
NEIC	I	19 14 03 05.1	60.05N	152.82W	104	4.0b		
IDC	I	19 14 03 06.1–8.7	60.14N	152.20W	133–75	3.2,3.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=44.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=73.3km s-min=38.8km az=16.0.

ISC	**I**	**22 04 23 34.3–.79**	**59.91N–.04**	**153.38W–.04**	**138–6**	**3.9b**	**130**	**0-57**
IDC	I	22 04 23 32.4–1.4	59.97N	153.66W	108–20	4.1,3.8		**¶16032946**
ISCJB	I	22 04 23 33.7–.26	59.91N–.02	153.37W–.05	139–3	3.9b,3.8		
NEIC	I	22 04 23 35.8	59.90N	153.37W	132	3.5,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=11.2km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=39.1.
NEIC Event type se. After AEIC.

ISC	**I**	**26 07 08 47.5–1.0**	**59.83N–.03**	**152.94W–.04**	**127–6**		**99**	**0-28**
ISCJB	I	26 07 08 46.1–.35	59.84N–.02	152.95W–.06	131–3	4.0b		**¶16135838**
IDC	I	26 07 08 46.8–1.6	59.90N	152.91W	78–30	3.8b,3.7		
NEIC	I	26 07 08 48.2	59.83N	152.99W	124	2.9,3.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=28.2.
IDC Error ellipse: s-maj=29.3km s-min=10.1km az=110.0.
NEIC Event type se. After AEIC.

ISC	**I**	**30 18 19 22.7–.40**	**60.65N–.04**	**152.13W–.03**	**98–3**	**4.3b**	**676**	**0-148**
BJI	I	30 18 19 18.0	60.60N	152.00W	76	5.1b,5.0s		**¶15981259**
ISCJB	I	30 18 19 21.0–.15	60.72N–.02	152.19W–.03	93–1	4.2b,5.0s		
IDC	I	30 18 19 23.6–.52	60.80N	152.25W	102–4	4.3,4.1		
NEIC	I	30 18 19 23.3	60.61N	152.05W	81	4.3b,4.2W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.4km az=156.9.
IDC Error ellipse: s-maj=11.1km s-min=7.4km az=21.0.
NEIC Event type fe. Felt at Anchorage and Kenai. After AEIC. Moment Tensor Solution. s25 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.05 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$0.58 $M_{r\theta}$0.42 $M_{\theta\phi}$-0.09 $M_{\phi r}$2.82 Best double couple: NP1:ϕ_s308.00000°,δ6.00000°,λ-152.00000°. NP2:ϕ_s189.00000° ,δ87.00000°,λ-85.00000°. Principal axes: T 3.1100,Plg42.0000°,Azm274.0000° ; N -0.4700,Plg5.0000°,Azm9.0000°; P -2.6400,Plg48.0000°,Azm105.0000° M_o2.90000×10^{15}

ISC	**I**	**31 09 54 59.8–1.1**	**61.58N–.02**	**141.28W–.02**	**4–11**		**73**	**0-8**
NEIC	I	31 09 54 59.5	61.56N	141.30W	16	2.8L		**¶16847156**
PGC	I	31 09 55 00.8–.02	61.60N	141.32W	1	2.8L		

ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. 224km Wnw of Haines Jct., Yt Southern Alaska.

ISC	**II**	**01 01 24 45.5–1.0**	**61.57N–.02**	**141.34W–.02**	**7–9**		**83**	**0-8**
NEIC	II	01 01 24 45.5	61.56N	141.32W	18	3.0L,2.9L		**¶15995146**
PGC	II	01 01 24 47.1–.01	61.60N	141.28W	1	3.0L,2.9L		

ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. 222km Wnw of Haines Jct., Yt Southern Alaska.

ISC	**II**	**19 11 23 43.4–.98**	**59.35N–.03**	**153.46W–.05**	**116–6**		**59**	**0-55**
ISCJB	II	19 11 23 42.8–.43	59.34N–.03	153.40W–.09	117–4	3.5b		**¶16398544**
IDC	II	19 11 23 42.0–2.1	59.45N	153.64W	78–32	3.5s,3.5		
NEIC	II	19 11 23 44.8	59.35N	153.48W	109	2.6,3.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.3km az=28.0.
IDC Error ellipse: s-maj=34.1km s-min=12.5km az=104.0.
NEIC Event type se. After AEIC.

ISC	**II**	**22 13 00 50.0–1.1**	**59.28N–.04**	**153.68W–.06**	**127–7**		**53**	**0-45**
ISCJB	II	22 13 00 49.2–.51	59.27N–.04	153.56W–.09	128–5	3.1b		**¶16398747**
NEIC	II	22 13 00 50.4	59.27N	153.71W	128	2.8		
IDC	II	22 13 00 51.7–1.2	58.83N	150.62W	0	3.3,3.2b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.7km az=35.2.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=28.8km s-min=12.5km az=117.0.

ISC	**II**	**24 17 42 32.6–.78**	**61.38N–.03**	**150.40W–.03**	**57–7**	**3.6b**	**111**	**0-76**
ISCJB	II	24 17 42 31.7–.19	61.38N–.02	150.38W–.04	69–3	3.6b		**¶16342395**
IDC	II	24 17 42 32.8–2.1	61.40N	150.57W	64–18	3.7,3.7		
NEIC	II	24 17 42 33.6	61.38N	150.39W	49	3.6L,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=145.0.
IDC Error ellipse: s-maj=20.3km s-min=14.4km az=90.0.
NEIC Event type fe. Felt [IV] at Anchorage. Also felt at Chugiak, Eagle River and Palmer. After AEIC.

ISC	**III**	**02 07 19 44.9–.72**	**60.13N–.03**	**152.70W–.04**	**116–6**	**4.1b**	**124**	**0-64**
ISCJB	III	02 07 19 43.7–.22	60.12N–.02	152.69W–.04	122–2	4.1b		**¶16442170**
IDC	III	02 07 19 44.6–2.0	60.15N	152.79W	108–28	4.1,3.8		
NEIC	III	02 07 19 45.9	60.11N	152.74W	111	3.6,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=41.5.
IDC Error ellipse: s-maj=34.8km s-min=20.5km az=133.0.
NEIC Event type fe. Felt [III] at Homer. Also felt at Anchor Point. After AEIC.

ISC	**III**	**05 03 55 23.8–.97**	**61.65N–.03**	**151.72W–.04**	**102–7**		**90**	**0-54**
IDC	III	05 03 55 21.7–1.6	61.61N	151.62W	68–31	3.7,3.7		**¶16453085**
ISCJB	III	05 03 55 22.9–.29	61.67N–.02	151.68W–.05	109–4	3.9b,3.7		
NEIC	III	05 03 55 25.3	61.66N	151.73W	92	3.0,3.7		

ISC Event type se.
IDC Error ellipse: s-maj=33.4km s-min=9.3km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.2km az=36.1.
NEIC Event type se. After AEIC.

ISC	**III**	**19 15 43 25.3–.86**	**61.37N–.03**	**146.69W–.03**	**41–8**	**3.8b**	**94**	**0-75**
ISCJB	III	19 15 43 25.1–.21	61.39N–.03	146.68W–.04	52–4	3.8b		**¶16339528**
IDC	III	19 15 43 26.0–2.4	61.25N	146.86W	60–19	3.7,3.7		
NEIC	III	19 15 43 26.7	61.40N	146.68W	29	3.6L,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=21.4.
IDC Error ellipse: s-maj=37.9km s-min=10.6km az=112.0.
NEIC Event type fe. Felt [II] at Valdez. After AEIC.

ISC	**III**	**22 13 11 22.9–1.0**	**60.21N–.04**	**152.56W–.04**	**111–7**		**79**	**0-55**
ISCJB	III	22 13 11 21.8–.35	60.20N–.03	152.56W–.07	118–4	3.5b		**¶16447673**
IDC	III	22 13 11 22.4–2.1	60.16N	152.57W	91–36	3.4,3.2		
NEIC	III	22 13 11 24.0	60.23N	152.64W	106	2.9,3.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=27.5.
IDC Error ellipse: s-maj=43.1km s-min=18.5km az=112.0.
NEIC Event type se. After AEIC.

ISC	**III**	**24 18 17 40.3–.00**	**61.32N–.03**	**150.88W–.03**	**66–9**		**86**	**0-60**
IDC	III	24 18 17 38.6–1.1	61.04N	149.72W	0	3.5,3.5b		**¶16480678**
ISCJB	III	24 18 17 38.9–.28	61.32N–.02	150.85W–.05	80–6	3.3b,3.5b		
NEIC	III	24 18 17 40.9	61.33N	150.89W	59	3.1L,3.5b		

ISC Event type se.
IDC Error ellipse: s-maj=32.6km s-min=9.8km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=42.2.
NEIC Event type se. After AEIC.

ISC	**III**	**25 14 58 38.8–.78**	**61.52N–.03**	**150.94W–.03**	**70–7**	**3.4b**	**81**	**0-64**
ISCJB	III	25 14 58 37.4–.24	61.52N–.02	150.92W–.05	75–4	3.5b		**¶16480849**
NEIC	III	25 14 58 39.0	61.52N	150.96W	65	3.4L		
IDC	III	25 14 58 40.3–5.3	61.71N	151.03W	80–42	3.6,3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=41.2.
NEIC Event type fe. Felt at Anchorage, Cooper Landing, Eagle River, Talkeetna and Wasilla. After AEIC.
IDC Error ellipse: s-maj=43.5km s-min=16.0km az=60.0.

ISC	**III**	**30 07 03 37.0–1.0**	**61.90N–.03**	**152.14W–.04**	**120–8**		**83**	**0-31**
ISCJB	III	30 07 03 35.3–.36	61.90N–.02	152.12W–.06	129–4	3.1b		**¶16475787**
NEIC	III	30 07 03 37.4	61.89N	152.15W	118	2.7		
IDC	III	30 07 03 37.3–1.5	61.96N	152.07W	107–44	3.1,3.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.3km az=21.5.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=72.4km s-min=17.7km az=133.0.

ISC	**IV**	**03 00 30 07.5–.50**	**61.83N–.03**	**150.82W–.03**	**69–4**	**3.8b**	**102**	**1-79**
ISCJB	IV	03 00 30 06.2–.22	61.84N–.02	150.79W–.05	72–3	3.8b		**¶16404921**
NEIC	IV	03 00 30 07.9	61.80N	150.76W	56	4.3b,3.7L		
IDC	IV	03 00 30 07.9–.59	61.95N	150.86W	71–4	3.8,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=36.5.
NEIC Event type fe. Felt at Anchorage, Talkeetna and Willow. After AEIC.
IDC Error ellipse: s-maj=11.9km s-min=9.3km az=40.0.

ISC	**IV**	**03 01 36 47.7–.53**	**61.33N–.03**	**151.17W–.03**	**68**	**3.9b**	**97**	**0-147**
ISCJB	IV	03 01 36 47.0–.21	61.36N–.02	151.15W–.05	68	3.8b		**¶16512204**
NEIC	IV	03 01 36 48.9	61.31N	151.14W	60	3.8L		
IDC	IV	03 01 36 48.9–2.8	61.54N	151.33W	75–21	3.8,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=135.3.
NEIC Event type fe. Felt [III] at Anchorage. Also felt at Eagle River. After AEIC.
IDC Error ellipse: s-maj=22.0km s-min=14.7km az=37.0.

ISC	**IV**	**03 12 25 36.8–1.0**	**60.11N–.05**	**153.48W–.05**	**169–7**	**3.5b**	**66**	**0-64**
ISCJB	IV	03 12 25 36.0–.47	60.10N–.04	153.48W–.09	172–3	3.5b		**¶16499041**
NEIC	IV	03 12 25 37.6	60.08N	153.57W	168	2.9		
IDC	IV	03 12 25 39.2–8.8	60.45N	153.72W	163–69	3.5,3.2b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.6km az=12.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=77.1km s-min=30.3km az=26.0.

ISC	**IV**	**03 19 59 53.7–.00**	**61.29N–.03**	**150.78W–.03**	**62–8**		**55**	**0-55**
ISCJB	IV	03 19 59 52.9–.37	61.30N–.03	150.76W–.06	69–5	3.3b		**¶16577642**
NEIC	IV	03 19 59 54.5	61.29N	150.79W	54	2.7L		
IDC	IV	03 19 59 55.7–8.2	61.40N	150.79W	84–79	3.0,2.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.2km az=151.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=63.3km s-min=47.1km az=38.0.

ISC	**IV**	**05 04 41 55.4–.67**	**60.11N–.03**	**152.75W–.04**	**101–5**	**3.7b**	**128**	**0-148**
ISCJB	IV	05 04 41 53.8–.21	60.10N–.02	152.69W–.05	108–2	3.7b		**¶16506221**
NEIC	IV	05 04 41 56.1	60.08N	152.73W	95	3.6		
IDC	IV	05 04 41 57.6–3.7	60.34N	152.77W	114–32	3.9,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.7km az=42.8.
NEIC Event type fe. Felt [II] at Homer. After AEIC.
IDC Error ellipse: s-maj=28.6km s-min=12.0km az=39.0.

ISC	**IV**	**15 23 03 36.1–.48**	**61.60N–.04**	**152.19W–.04**	**128–4**	**4.1b**	**201**	**0-147**
ISCJB	IV	15 23 03 34.6–.16	61.58N–.02	152.17W–.04	132–2	4.0b		**¶16440091**
NEIC	IV	15 23 03 36.6	61.58N	152.19W	125	4.4b		
IDC	IV	15 23 03 37.1–.84	61.70N	152.40W	132–7	4.2,3.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=143.6.
NEIC Event type fe. Felt at Anchorage. After AEIC.
IDC Error ellipse: s-maj=15.2km s-min=9.0km az=16.0.

ISC	**IV**	**16 01 32 40.5–1.1**	**61.34N–.04**	**146.77W–.03**	**38–1**	**3.9b**	**98**	**0-75**
IDC	IV	16 01 32 28.5–2.0	60.41N	147.62W	0	3.8,3.8b		**¶16545153**

ISCJB IV 16 01 32 40.4–.21 61.34N–.02 146.78W–.04 53–4 3.8b,3.8b
NEIC IV 16 01 32 42.1 61.36N 146.74W 27 3.6L,3.8b
ISC Event type fe.
IDC Error ellipse: s-maj=35.8km s-min=17.0km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=12.7.
NEIC Event type fe. Felt [III] at Valdez. After AEIC.
ISC IV 20 07 35 08.4–.83 59.57N–.04 152.95W–.04 101–6 112 0-65
ISCJB IV 20 07 35 07.4–.27 59.59N–.03 152.94W–.05 108–3 3.6b **¶16591755**
IDC IV 20 07 35 08.2–5.7 59.70N 153.11W 90–48 3.8,3.6
NEIC IV 20 07 35 09.7 59.57N 152.94W 94 3.4,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=43.2.
IDC Error ellipse: s-maj=45.2km s-min=24.2km az=33.0.
NEIC Event type se. After AEIC.
ISC IV 20 13 36 53.0–1.3 60.75N–.03 147.16W–.02 10–9 3.7b 107 1-76
ISCJB IV 20 13 36 54.9–.49 60.78N–.03 147.15W–.04 29–4 3.7b **¶16536020**
IDC IV 20 13 36 55.3–4.2 60.58N 147.25W 39–25 3.9L,3.7
NEIC IV 20 13 36 55.8 60.80N 147.12W 10 3.7W,3.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=6.0.
IDC Error ellipse: s-maj=52.2km s-min=15.8km az=46.0.
NEIC Event type fe. Felt at Valdez. After AEIC. Moment Tensor Solution. s48 Moment tensor: Scale 10^{14}Nm; M_{rr}-1.75 $M_{\theta\theta}$-1.62 $M_{\phi\phi}$3.38 $M_{r\theta}$-1.58 $M_{\theta\phi}$1.56 $M_{\phi r}$0.75 Best double couple: NP1:ϕ_s160.00000°,δ64.00000°,λ-145.00000°. NP2:ϕ_s53.00000°,δ59.00000°,λ-31.00000°. Principal axes: T 3.8400,Plg3.0000°,Azm285.0000°; N -0.1900,Plg47.0000°,Azm192.0000° ; P -3.6500,Plg42.0000°,Azm18.0000° M_o3.80000×10^{14}
ISC IV 25 19 29 15.0–.35 59.10N–.04 152.65W–.03 65–2 4.8b 555 0-162
BJI IV 25 19 29 10.7 59.14N 152.75W 57 4.9b,4.9b **¶16459941**
MOS IV 25 19 29 13.2–.83 59.22N 152.94W 59 5.1b,4.9b
ISCJB IV 25 19 29 14.4–.19 59.23N–.02 152.75W–.03 70–1 4.7b,4.9b
NEIC IV 25 19 29 15.9 59.06N 152.53W 57 4.9W,4.9b
IDC IV 25 19 29 15.8–1.9 59.27N 152.84W 66–17 4.6,4.4
GCMT IV 25 19 29 15.9–.30 59.08N 152.76W 82–3 5.0W,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=10.3km s-min=4.3km az=91.5.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=157.0.
NEIC Event type fe. Felt [III] at Anchor Point and Homer. Also felt at King Salmon and Ninilchik. After AEIC. Moment Tensor Solution. s43 Moment tensor: Scale 10^{16}Nm; M_{rr}0.48 $M_{\theta\theta}$-1.79 $M_{\phi\phi}$1.31 $M_{r\theta}$0.67 $M_{\theta\phi}$2.14 $M_{\theta r}$0.78 Best double couple: NP1:ϕ_s340.00000°,δ71.00000° ,λ166.00000°. NP2:ϕ_s74.00000°,δ77.00000°,λ20.00000°. Principal axes: T 2.8300,Plg23.0000°,Azm298.0000°; N 0.0700,Plg66.0000°,Azm106.0000° ; P -2.9000,Plg4.0000°,Azm206.0000° M_o2.90000×10^{16}
IDC Error ellipse: s-maj=12.9km s-min=8.9km az=1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c53; s74,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.54±.16 $M_{\theta\theta}$-4.48±.18; $M_{\phi\phi}$2.94±.15; $M_{r\theta}$-0.28±.14; $M_{\theta\phi}$2.18±.12; $M_{\phi r}$1.40±.09; Best double couple: NP1:ϕ_s327.00000°,δ76.00000° ,λ157.00000°. NP2:ϕ_s63.00000°,δ68.00000°,λ15.00000°. Principal axes: T 4.1660,Plg26.0000°,Azm283.0000°; N 0.9690,Plg63.0000°,Azm117.0000° ; P -5.1350,Plg6.0000°,Azm16.0000° M_o4.65000×10^{16}
ISC IV 29 02 03 04.2–1.4 61.88N–.05 152.15W–.09 115–10 28 1-45
ISCJB IV 29 02 03 02.9–.95 61.88N–.04 152.1W–.20 122–6 3.0b **¶16649593**
NEIC IV 29 02 03 04.3 61.88N 152.21W 123 3.0
IDC IV 29 02 03 05.4–8.1 61.69N 151.40W 82–86 3.2,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=5.9km az=162.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=75.9km s-min=60.8km az=125.0.
NEIC IV 29 13 35 21.2 59.76N 153.61W 131 4.3b
¶16649591
NEIC Event type se. After AEIC.
ISC V 03 10 42 29.6–.96 61.92N–.03 151.13W–.03 74–9 83 1-31
IDC V 03 10 42 26.7–2.5 61.59N 150.19W 0 3.6,3.4b **¶16708686**
ISCJB V 03 10 42 28.3–.30 61.92N–.02 151.09W–.05 85–5 3.3b,3.4b
NEIC V 03 10 42 30.1 61.90N 151.13W 72 3.2,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=37.5km s-min=15.6km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.3km az=10.2.
NEIC Event type se. After AEIC.
ISC V 05 16 44 32.0–.78 59.33N–.04 153.50W–.04 116–5 3.7b 119 0-55
ISCJB V 05 16 44 30.8–.30 59.35N–.03 153.62W–.05 118–3 3.6b **¶16498614**
IDC V 05 16 44 30.0–6.7 59.41N 153.87W 79–66 3.6,3.6b
NEIC V 05 16 44 33.0 59.32N 153.64W 107 3.1,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.7km az=36.7.
IDC Error ellipse: s-maj=47.3km s-min=20.6km az=15.0.
NEIC Event type se. After AEIC.
ISC V 07 00 47 41.8–1.0 60.00N–.04 153.37W–.05 147–6 105 0-57
ISCJB V 07 00 47 41.0–.30 60.01N–.03 153.39W–.06 149–3 3.8b **¶16578041**
NEIC V 07 00 47 42.9 59.98N 153.39W 144 3.4
IDC V 07 00 47 43.5–8.6 60.28N 153.49W 134–69 3.9,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.6km az=33.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=70.3km s-min=36.3km az=25.0.
ISC V 11 20 39 15.5–.86 59.99N–.04 153.30W–.04 140–6 3.6b 102 0-57
ISCJB V 11 20 39 14.5–.28 60.00N–.03 153.32W–.06 142–3 3.4b **¶16709639**
NEIC V 11 20 39 16.5 59.98N 153.32W 136 4.0b
IDC V 11 20 39 20.6–7.4 60.59N 153.41W 144–65 3.7,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.4km az=38.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=63.9km s-min=20.5km az=30.0.
ISC V 13 20 30 42.4–.57 60.10N–.03 152.63W–.03 108–5 4.5b 244 0-148
ISCJB V 13 20 30 41.1–.15 60.10N–.02 152.63W–.04 112–1 4.4b **¶16509652**
IDC V 13 20 30 43.9–1.9 60.27N 152.73W 112–17 4.4,4.1
NEIC V 13 20 30 43.4 60.05N 152.61W 101 4.5b,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=143.9.
IDC Error ellipse: s-maj=15.7km s-min=10.0km az=11.0.
NEIC Event type fe. Felt [III] at Homer. Also felt at Anchorage, Clam Gulch, Girdwood, Kasilof, Kenai, Ninilchik, Pedro Bay and Soldotna. Felt widely on the Kenai Peninsula. After AEIC.
ISC V 14 00 36 39.9–.95 60.24N–.05 153.67W–.05 195–6 3.6b 77 0-64
ISCJB V 14 00 36 39.0–.41 60.26N–.03 153.70W–.08 198–3 3.4b **¶16684765**
NEIC V 14 00 36 39.8 60.22N 153.67W 204 3.0
IDC V 14 00 36 42.6–7.9 60.61N 154.07W 190–63 3.7,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.0km az=27.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=74.0km s-min=29.7km az=27.0.
ISC V 16 00 57 40.5–.86 59.89N–.04 153.15W–.05 127–6 58 0-57
ISCJB V 16 00 57 39.7–.37 59.91N–.03 153.13W–.08 133–4 3.8b **¶602607342**
NEIC V 16 00 57 41.9 59.92N 153.28W 122 3.2
IDC V 16 00 57 46.9–1.7 60.37N 153.12W 158–22 3.9,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=3.9km az=35.6.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=26.6km s-min=16.7km az=114.0.
ISC V 18 00 49 14.3–1.1 61.54N–.03 146.50W–.03 29–10 89 0-43
IDC V 18 00 49 09.3–2.5 61.34N 146.75W 0 3.5,3.5L **¶16710147**
ISCJB V 18 00 49 13.7–.23 61.56N–.02 146.49W–.04 47–5 3.0b,3.5L
NEIC V 18 00 49 15.0 61.54N 146.50W 36 3.3L,3.5L
ISC Event type fe.
IDC Error ellipse: s-maj=36.8km s-min=12.6km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=32.3.
NEIC Event type fe. Felt at Valdez. After AEIC.
ISC V 20 12 51 50.6–.62 59.94N–.04 153.30W–.04 135–5 4.2b 147 0-83
ISCJB V 20 12 51 49.2–.18 59.94N–.02 153.33W–.04 138–2 4.1b **¶16530715**
NEIC V 20 12 51 51.2 59.89N 153.27W 137 4.8b
IDC V 20 12 51 51.6–2.1 60.15N 153.36W 135–19 4.2,3.9
ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=136.6.
NEIC Event type fe. Felt at Anchorage. After AEIC.
IDC Error ellipse: s-maj=19.4km s-min=10.6km az=16.0.
ISC V 21 13 57 09.8–.67 59.78N–.04 152.66W–.04 83–6 4.2b 129 1-149
ISCJB V 21 13 57 08.4–.20 59.76N–.02 152.60W–.04 95–3 4.1b **¶16531801**
NEIC V 21 13 57 10.5 59.75N 152.68W 82 3.9
IDC V 21 13 57 11.6–3.7 60.01N 152.76W 92–34 4.1,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=43.8.
NEIC Event type fe. Felt at Anchor Point, Homer and Soldotna. After AEIC.
IDC Error ellipse: s-maj=28.3km s-min=12.7km az=34.0.
ISC VI 01 21 08 24.5–.94 61.34N–.03 147.25W–.02 29–8 3.5b 104 0-79
IDC VI 01 21 08 17.6–1.4 61.05N 148.29W 0 3.8,3.7 **¶16856053**
ISCJB VI 01 21 08 24.2–.34 61.39N–.02 147.20W–.03 31–3 3.5b,3.7
NEIC VI 01 21 08 24.9 61.39N 147.15W 12 3.7L,3.7
ISC Event type fe.
IDC Error ellipse: s-maj=24.5km s-min=13.7km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=21.2.
NEIC Event type fe. Felt at Girdwood. After AEIC.
ISC VI 02 00 30 49.0–.80 60.13N–.03 153.10W–.04 118–6 3.5b 88 0-57
ISCJB VI 02 00 30 47.4–.31 60.12N–.02 153.07W–.06 126–3 3.6b **¶16856064**
NEIC VI 02 00 30 49.4 60.12N 153.10W 116 3.0
IDC VI 02 00 30 54.0–7.6 60.56N 152.76W 152–67 3.6,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=23.0.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=66.3km s-min=18.4km az=31.0.
ISC VI 09 07 40 30.4–.66 59.58N–.04 152.45W–.04 83–6 4.0b 168 0-149
ISCJB VI 09 07 40 28.9–.19 59.55N–.02 152.36W–.04 94–2 4.0b **¶16580442**
NEIC VI 09 07 40 31.0 59.57N 152.49W 83 4.3b
IDC VI 09 07 40 32.2–2.7 59.81N 152.61W 96–22 3.8,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=143.9.
NEIC Event type fe. Felt at Anchor Point and Homer. After AEIC.
IDC Error ellipse: s-maj=20.4km s-min=14.6km az=26.0.
ISC VI 13 23 02 30.8–.76 60.03N–.03 153.05W–.04 118–6 3.8b 113 0-57
ISCJB VI 13 23 02 29.4–.27 60.02N–.02 152.98W–.05 127–3 3.6b **¶16730432**
NEIC VI 13 23 02 31.7 60.01N 153.03W 113 3.6
IDC VI 13 23 02 32.0–4.4 60.36N 153.21W 113–39 3.9,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.2km az=37.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=32.8km s-min=20.3km az=39.0.
ISC VI 16 01 10 42.2–.72 59.74N–.04 153.29W–.04 119–6 4.0b 139 0-59
ISCJB VI 16 01 10 41.3–.24 59.69N–.02 153.34W–.05 124–3 4.1b **¶16730609**
IDC VI 16 01 10 43.5–3.4 59.97N 153.34W 115–30 4.2,3.8
NEIC VI 16 01 10 43.5 59.67N 153.36W 113 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.1km az=137.1.
IDC Error ellipse: s-maj=30.7km s-min=18.4km az=176.0.
NEIC Event type se. After AEIC.
ISC VI 16 09 00 03.4–.93 59.43N–.05 152.64W–.04 91–7 117 0-65
IDC VI 16 09 00 01.6–9.6 59.36N 153.20W 65–75 3.6,3.6 **¶16730696**
ISCJB VI 16 09 00 03.1–.28 59.45N–.03 152.65W–.05 95–3 3.3b,3.6
NEIC VI 16 09 00 05.4 59.45N 152.71W 81 3.2,3.6
ISC Event type se.
IDC Error ellipse: s-maj=99.4km s-min=42.6km az=33.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.6km az=145.5.
NEIC Event type se. After AEIC.
ISC VI 19 08 49 53.5–.00 60.17N–.03 153.07W–.04 141–6 92 0-45
ISCJB VI 19 08 49 52.9–.36 60.15N–.03 153.09W–.07 140–4 3.0b **¶16730951**
NEIC VI 19 08 49 54.9 60.14N 153.11W 133 2.9
IDC VI 19 08 49 56.0–7.5 60.11N 151.97W 90–80 3.5,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.6km az=27.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=85.9km s-min=56.9km az=107.0.
ISC VI 21 09 23 17.1–.77 59.99N–.04 152.78W–.04 100–6 4.1b 120 0-57
ISCJB VI 21 09 23 16.1–.25 59.98N–.02 152.77W–.05 109–3 4.1b **¶16731124**
IDC VI 21 09 23 17.7–4.7 60.13N 152.74W 96–49 4.1s,4.1
NEIC VI 21 09 23 18.2 59.98N 152.86W 96 3.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=44.3.
IDC Error ellipse: s-maj=37.2km s-min=26.3km az=36.0.
NEIC Event type se. After AEIC.
NEIC VI 25 06 55 27.5 59.46N 152.90W 98 2.5
¶16722461
NEIC Event type se. After AEIC.
ISC VI 26 03 03 30.7–.60 59.91N–.03 152.97W–.04 115–5 4.1b 158 0-81
ISCJB VI 26 03 03 29.4–.18 59.92N–.02 152.96W–.04 121–2 4.1b **¶16681521**
IDC VI 26 03 03 30.9–2.6 60.00N 153.00W 114–22 4.1,3.8
NEIC VI 26 03 03 31.6 59.89N 152.99W 108 4.1,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=137.7.
IDC Error ellipse: s-maj=25.3km s-min=13.4km az=161.0.
NEIC Event type fe. Felt [II] at Homer. After AEIC.
ISC VI 28 20 02 34.6–.65 59.80N–.04 154.14W–.04 173–5 3.7b 141 0-64
ISCJB VI 28 20 02 33.4–.24 59.79N–.02 154.15W–.05 175–2 3.6b **¶16685971**
NEIC VI 28 20 02 34.8 59.72N 154.13W 176 3.7
IDC VI 28 20 02 35.6–5.8 60.04N 154.15W 168–52 3.9,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.1km az=35.9.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=50.1km s-min=21.2km az=22.0.
ISC VI 30 03 39 27.6–.97 59.89N–.04 153.33W–.04 143–6 79 0-57
ISCJB VI 30 03 39 26.7–.38 59.86N–.03 153.35W–.07 144–4 4.0b **¶16731822**
NEIC VI 30 03 39 29.2 59.87N 153.38W 134 2.8
IDC VI 30 03 39 29.7–8.7 60.15N 153.26W 134–70 3.7b,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.7km az=35.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=72.3km s-min=38.2km az=25.0.
ISC VI 30 10 45 56.2–.75 60.11N–.03 152.50W–.04 95–5 3.8b 122 0-148
ISCJB VI 30 10 45 55.1–.24 60.10N–.02 152.46W–.05 103–3 3.7b **¶16731846**
IDC VI 30 10 45 57.9–4.1 60.19N 152.58W 103–39 3.7,3.5
NEIC VI 30 10 45 57.4 60.10N 152.53W 88 3.3,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.2km az=39.6.
IDC Error ellipse: s-maj=47.0km s-min=19.9km az=12.0.
NEIC Event type se. After AEIC.

(3) Bering Sea.

ISC V 10 05 47 39.4–.93 60.4N–.20 177.75W–.08 35 3.7s,3.7b 16 14-87
IDC V 10 05 47 34.2–1.1 60.44N 177.71W 0 3.9,3.8 **¶17203181**
ISCJB V 10 05 47 37.2–.77 60.4N–.20 177.7W–.10 33 3.7b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 09 55 39.2–1.0 60.8N–.10 177.74W–.07 10 3.9b 25 4-70
ISCJB VI 26 09 55 36.7–.96 60.7N–.20 177.7W–.10 10 3.9b,3.6s **¶16731502**
IDC VI 26 09 55 37.4–1.8 60.71N 177.80W 0 3.9,3.8b
NEIC VI 26 09 55 38.1–3.1 60.68N 177.78W 4–21 4.0b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.0km s-min=6.8km az=170.2.
IDC Error ellipse: s-maj=44.8km s-min=22.4km az=4.0.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=6.8km az=169.0.

(4) Komandorsky Islands region.

ISC I 08 12 35 29.7–.55 54.01N–.06 169.12E–.05 25 3.8b,3.2s 95 3-83
IDC I 08 12 35 27.8–.70 54.42N 169.08E 0 4.0,3.8 **¶16021277**
ISCJB I 08 12 35 28.7–.35 54.15N–.05 169.00E–.04 25 3.8b,3.1s
KRSC I 08 12 35 28.7–2.7 54.03N 169.13E 116–88 4.6L,3.1s

NEIC I 08 12 35 30.4–.35 54.34N 169.15E 20 4.3b,3.1s
MOS I 08 12 35 34.1–.95 54.06N 168.62E 91 3.8b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=12.3km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.4km az=178.8.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=5.6km az=170.0.
MOS Error ellipse: s-maj=12.8km s-min=9.5km az=17.0.
KRSC I 08 16 53 07.0–.98 55.72N 165.15E 6–18 3.5L
¶17189711
KRSC Event type se.
KRSC I 12 10 37 45.5–2.1 53.86N 167.06E 15–10 4.0L
MOS I 12 10 37 45.5–2.5 53.86N 167.06E 15 4.2b **¶16151156**
KRSC Event type se.
MOS Error ellipse: s-maj=33.3km s-min=17.1km az=31.7.
ISC I 14 21 48 22.5–.48 55.48N–.05 166.44E–.05 20 4.1b,3.5s 124 0-85
IDC I 14 21 48 19.9–.61 55.61N 166.40E 0 4.2,4.0L **¶16032768**
BJI I 14 21 48 19.1 55.60N 166.40E 10 4.9b,4.9s
KRSC I 14 21 48 20.7–1.7 55.36N 166.36E 40–11 4.6L,4.9s
ISCJB I 14 21 48 21.1–.30 55.50N–.04 166.42E–.04 20 4.0b,3.5s
NEIC I 14 21 48 22.0–3.1 55.63N 166.41E 13–20 4.4b,3.5s
MOS I 14 21 48 23.4–.74 55.52N 166.32E 40 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=10.8km az=162.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.9km az=167.6.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=5.0km az=160.0.
MOS Error ellipse: s-maj=9.1km s-min=8.2km az=177.1.
ISC I 20 05 34 37.0–.43 55.53N–.03 164.93E–.03 34–1 5.1b,4.1s 953 1-144
IDC I 20 05 34 32.0–.43 55.62N 164.94E 0 4.8,4.8 **¶15940675**
KRSC I 20 05 34 34.0–1.4 55.51N 164.94E 81–30 5.3L,4.8
ISCJB I 20 05 34 35.9–.32 55.57N–.02 164.92E–.02 39–3 5.0b,4.1s
MOS I 20 05 34 36.3–.81 55.53N 164.88E 44 4.9b,4.1s
NEIC I 20 05 34 37.0–.11 55.66N 164.83E 29 5.1b,4.1s
GCMT I 20 05 34 37.0–.40 55.72N 164.72E 33–1 4.9W,4.1s
BJI I 20 05 34 37.7 55.71N 164.05E 29 5.1b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=8.7km az=160.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.0km az=168.0.
MOS Error ellipse: s-maj=7.0km s-min=5.6km az=87.1.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=1.8km az=167.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c32; s58,c79; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.90±.21 $M_{\theta\theta}$0.04±.15; $M_{\phi\phi}$-0.94±.15; $M_{r\theta}$-0.92±.20; $M_{\theta\phi}$-2.46±.09; $M_{\phi r}$-1.07±.18; Best double couple: NP1:ϕ_s85.00000°,δ79.00000°,λ-165.00000°. NP2:ϕ_s353.00000°,δ75.00000°,λ-11.00000°. Principal axes: T 2.0600,Plg3.0000°,Azm219.0000°; N 1.3600,Plg72.0000°,Azm121.0000° ; P -3.4200,Plg18.0000°,Azm309.0000° $M_0$2.74000×10^{16}
ISC I 24 15 43 00.2–1.7 55.51N–.05 164.94E–.04 30–14 3.5b 56 1-83
IDC I 24 15 42 56.2–.90 55.65N 164.91E 0 3.8,3.6 **¶17190902**
KRSC I 24 15 42 58.5–.98 55.42N 164.81E 48–17 4.0L,3.6
ISCJB I 24 15 42 60.0–.50 55.45N–.04 164.88E–.05 42–7 3.5b,3.6
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC I 24 22 58 26.8–1.5 54.50N 165.06E 40–17 3.8L
¶17190928
KRSC Event type se.
ISC I 25 21 07 17.9–1.0 55.35N–.07 166.64E–.07 35 3.3b 41 0-66
KRSC I 25 21 07 11.9–1.5 55.37N 166.75E 34–12 3.8L **¶17190986**
IDC I 25 21 07 13.3–2.1 55.19N 166.95E 0 3.6,3.4
ISCJB I 25 21 07 15.6–.65 55.29N–.05 166.62E–.06 33 3.3b,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
IDC II 10 16 01 35.4–4.2 54.22N 167.87E 0 4.2s,4.2
¶17192018
IDC Error ellipse: s-maj=90.3km s-min=44.3km az=14.0.
ISC III 02 20 49 49.5–2.2 55.64N–.04 164.67E–.03 34–6 3.2b 77 1-67
IDC III 02 20 49 44.9–1.4 55.80N 164.56E 0 3.6,3.4 **¶16193984**
KRSC III 02 20 49 46.9–1.4 55.56N 164.57E 50–25 4.0L,3.4
MOS III 02 20 49 48.3–.97 55.60N 164.66E 44 4.2b,3.4
ISCJB III 02 20 49 48.6–.50 55.58N–.04 164.62E–.05 47–8 3.2b,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC III 07 05 38 23.6–1.0 55.55N–.06 166.21E–.08 20 3.4b 39 0-66
KRSC III 07 05 38 19.8–1.6 55.53N 166.33E 33–12 3.7L **¶16293250**
IDC III 07 05 38 21.8–1.6 55.68N 166.08E 0 3.7,3.4
ISCJB III 07 05 38 22.4–.63 55.52N–.04 166.19E–.06 20 3.3b,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC III 07 07 42 50.0–1.0 54.08N–.05 166.09E–.07 10 3.3b 62 1-67
IDC III 07 07 42 48.7–2.2 53.97N 166.47E 0 3.6,3.6L **¶16293252**
KRSC III 07 07 42 49.3–1.9 54.03N 165.94E 17–36 3.9L,3.6L
ISCJB III 07 07 42 49.2–.67 54.08N–.04 166.14E–.07 10 3.6s,3.2b
MOS III 07 07 42 49.3–.70 54.03N 166.28E 18 4.1b,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=90.4km s-min=22.0km az=168.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.3km az=29.0.
MOS Error ellipse: s-maj=11.1km s-min=9.0km az=28.9.
KRSC III 09 21 48 34.5–.77 56.08N 164.11E 14–11 3.6L
¶16303943
KRSC Event type se.
KRSC III 10 02 34 57.4–.95 55.65N 164.10E 6–29 3.8L
¶16311589
KRSC Event type se.
ISC III 19 08 09 56.1–.76 55.57N–.05 165.97E–.06 20–5 3.6b 97 0-84
KRSC III 19 08 09 53.7–1.6 55.52N 166.03E 44–14 4.2L **¶16339767**
IDC III 19 08 09 53.9–1.0 55.77N 165.87E 0 3.8,3.5
ISCJB III 19 08 09 56.0–.67 55.50N–.04 165.98E–.06 32–5 3.8b,3.5
MOS III 19 08 09 56.2–1.0 55.49N 165.95E 42 4.4b,3.5
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=42.9km s-min=17.8km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.7km az=153.5.
MOS Error ellipse: s-maj=11.8km s-min=8.8km az=171.9.
ISC III 31 10 20 41.5–1.2 54.07N–.09 167.88E–.08 35 3.1b 17 2-66
IDC III 31 10 20 37.5–2.4 54.16N 168.10E 0 3.6,3.2 **¶16401557**
ISCJB III 31 10 20 39.6–.85 54.04N–.08 167.91E–.09 33 3.2b,3.2
KRSC III 31 10 20 40.9–1.4 53.99N 167.14E 8–31 3.7L,3.2
ISC Event type se.
IDC Error ellipse: s-maj=102.3km s-min=32.0km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=7.9km az=175.8.
KRSC Event type se.
ISC IV 03 01 50 54.2–.41 54.96N–.04 164.34E–.03 31–2 4.2b,3.3s 183 1-89
KRSC IV 03 01 50 50.4–1.6 54.96N 164.31E 55–24 4.5L,3.3s **¶16404922**
ISCJB IV 03 01 50 53.2–.54 54.94N–.03 164.21E–.05 40–4 4.2b,3.4s
MOS IV 03 01 50 53.0–.94 55.01N 164.28E 37 4.3b,3.4s
IDC IV 03 01 50 55.5–.56 55.10N 164.23E 35–3 4.7L,3.9
NEIC IV 03 01 51 04.7–.92 55.08N 162.82E 89–9 4.2b,3.9
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.8km az=29.8.
MOS Error ellipse: s-maj=7.5km s-min=6.2km az=86.3.
IDC Error ellipse: s-maj=14.9km s-min=9.4km az=171.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.9km az=163.0.
ISC IV 04 20 11 43.8–.69 55.39N–.05 166.47E–.06 20 3.7b,2.8s 115 0-80
KRSC IV 04 20 11 40.5–1.9 55.35N 166.54E 40–12 4.4L,2.8s **¶16408815**
IDC IV 04 20 11 41.3–1.0 55.56N 166.33E 0 4.0,3.8
ISCJB IV 04 20 11 42.2–.44 55.37N–.03 166.43E–.05 20 3.8b,2.9s
MOS IV 04 20 11 44.1–1.3 55.38N 166.40E 38 4.1b,2.9s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=31.1km s-min=15.2km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=149.9.
MOS Error ellipse: s-maj=10.9km s-min=7.9km az=165.6.
ISC IV 04 20 50 44.0–.87 55.41N–.05 166.44E–.06 20 3.6b 85 0-66
KRSC IV 04 20 50 41.5–2.0 55.33N 166.47E 39–12 4.3L **¶16408817**
ISCJB IV 04 20 50 42.5–.55 55.34N–.04 166.45E–.06 20 3.6b
IDC IV 04 20 50 42.1–1.6 55.69N 166.29E 0 3.9,3.7
MOS IV 04 20 50 43.9–.86 55.39N 166.42E 33 4.2b,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=155.8.
IDC Error ellipse: s-maj=63.0km s-min=17.8km az=162.0.
MOS Error ellipse: s-maj=12.7km s-min=8.5km az=162.6.
ISC IV 04 20 54 39.2–.86 55.50N–.05 166.21E–.06 20 3.4b 78 0-66
IDC IV 04 20 54 36.7–1.7 55.64N 166.29E 0 3.7,3.5 **¶16408818**
ISCJB IV 04 20 54 38.2–.57 55.45N–.04 166.22E–.06 20 3.5b,3.5
KRSC IV 04 20 54 38.6–2.3 55.33N 166.08E 34–13 4.1L,3.5
MOS IV 04 20 54 39.3–1.8 55.39N 166.36E 38 4.1b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=60.5km s-min=18.0km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.8km az=148.7.
KRSC Event type se.
MOS Error ellipse: s-maj=12.7km s-min=8.6km az=166.5.
ISC IV 05 17 51 34.6–2.2 56.16N–.06 164.20E–.07 2–13 3.4b 47 1-61
KRSC IV 05 17 51 31.6–1.1 56.07N 164.92E 60–19 3.9L **¶16410387**
IDC IV 05 17 51 35.4–1.3 56.31N 163.79E 0 3.6,3.4b
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=50.1km s-min=16.9km az=157.0.
KRSC IV 08 13 46 51.7–1.1 56.03N 164.43E 55–23 4.0L
¶16416692
KRSC Event type se.
ISC IV 28 07 37 06.5–.60 54.82N–.05 166.10E–.05 26 4.1b 117 0-67
ISCJB IV 28 07 37 05.5–.31 54.82N–.03 166.03E–.03 26 4.1b,3.6s **¶16482354**
KRSC IV 28 07 37 06.1–1.8 54.87N 165.89E 54–14 4.6L,3.6s
NEIC IV 28 07 37 07.0–3.2 55.08N 166.02E 22–24 4.1b,3.6s
MOS IV 28 07 37 08.2–1.1 54.92N 165.98E 59 4.4b,3.6s
IDC IV 28 07 37 09.6–3.0 55.00N 165.94E 49–36 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.6km az=164.5.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=6.8km az=150.0.
MOS Error ellipse: s-maj=10.7km s-min=8.6km az=141.3.
IDC Error ellipse: s-maj=29.4km s-min=18.6km az=166.0.
ISC V 12 04 43 29.2–.69 54.27N–.09 169.14E–.06 26–4 3.5b 75 2-79
MOS V 12 04 43 24.6–.98 54.19N 169.30E 12 4.0b **¶16507983**
KRSC V 12 04 43 26.8–1.2 54.20N 168.69E 8–18 4.6L
ISCJB V 12 04 43 29.2–1.1 54.20N–.07 168.96E–.08 43–11 3.4b
IDC V 12 04 43 30.3–1.3 54.42N 169.33E 25–3 3.6,3.5
ISC Event type se.
MOS Error ellipse: s-maj=15.4km s-min=9.6km az=17.7.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=6.8km az=163.8.
IDC Error ellipse: s-maj=39.0km s-min=12.9km az=1.0.
KRSC V 18 17 20 15.1–1.1 54.04N 165.91E 17–31 4.0L
¶16528314
KRSC Event type se.
KRSC V 18 18 11 31.2–1.1 55.39N 164.14E 68–25 3.8L
¶16528315
KRSC Event type se.
KRSC V 20 17 29 41.4–1.4 55.40N 166.24E 36–11 3.8L
¶16531569
KRSC Event type se.
KRSC V 26 09 23 04.4–.94 54.97N 165.68E 22–7 3.6L
¶16549360
KRSC Event type se.
KRSC V 26 14 54 13.8–.74 54.69N 164.65E 41–18 3.6L
¶16549367
KRSC Event type se.
KRSC VI 03 08 24 12.7–1.4 54.77N 165.62E 20–10 3.7L
¶603071538
KRSC Event type se.
KRSC VI 05 22 50 36.3–1.0 55.48N 164.36E 49–21 3.5L
¶603071545
KRSC Event type se.
ISC VI 07 06 16 37.1–.95 55.43N–.03 164.04E–.03 35–10 3.6b 113 1-69
IDC VI 07 06 16 34.0–1.2 55.73N 163.82E 0 4.0,3.8b **¶16575942**
KRSC VI 07 06 16 34.3–1.1 55.42N 164.06E 72–21 4.2L,3.8b
ISCJB VI 07 06 16 36.6–.49 55.37N–.03 163.98E–.05 39–8 3.7b,3.8b
MOS VI 07 06 16 36.3–.63 55.43N 164.02E 54 4.1b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=35.7km s-min=21.3km az=147.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.5km az=13.7.
MOS Error ellipse: s-maj=7.9km s-min=6.4km az=58.8.
ISC VI 11 12 19 28.6–.69 55.42N–.04 164.01E–.03 31–4 3.5b 101 1-84
KRSC VI 11 12 19 26.1–1.1 55.34N 163.94E 49–24 4.2L **¶16591622**
MOS VI 11 12 19 27.7–.91 55.42N 164.02E 44 4.0b
ISCJB VI 11 12 19 28.1–.51 55.36N–.03 163.95E–.05 41–7 3.7b
IDC VI 11 12 19 30.9–.83 55.60N 163.83E 44–8 3.6,3.6
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=8.1km s-min=7.1km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=5.1km az=33.9.
IDC Error ellipse: s-maj=30.4km s-min=11.1km az=152.0.
ISC VI 12 11 16 38.6–.54 56.22N–.04 164.37E–.03 31–3 5.1b,4.7s 1125 1-153
MOS VI 12 11 16 34.2–.97 56.27N 164.31E 11 5.1b,4.8s **¶16682680**
IDC VI 12 11 16 34.1–.44 56.25N 164.24E 0 4.7,4.6b
KRSC VI 12 11 16 34.9–1.0 55.97N 164.26E 7–3 5.8L,4.6b
ISCJB VI 12 11 16 37.3–.30 56.19N–.02 164.34E–.02 35–3 5.1b,4.7s
BJI VI 12 11 16 37.4 56.19N 163.72E 24 5.3s,5.0
NEIC VI 12 11 16 38.1–.88 56.27N 164.20E 24–6 5.2b,5.0
GCMT VI 12 11 16 38.2–.10 56.34N 164.45E 13–0 5.2W,5.0
ISC Event type se.
MOS Error ellipse: s-maj=5.2km s-min=3.9km az=78.0.
IDC Error ellipse: s-maj=12.3km s-min=8.7km az=169.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=1.8km az=168.7.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=1.7km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c133; s123,c221; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.14±.01 $M_{\theta\theta}$-0.55±.01; $M_{\phi\phi}$0.69±.01; $M_{r\theta}$-0.01±.03; $M_{\theta\phi}$-0.53±.01; $M_{\phi r}$-0.01±.03; Best double couple: NP1:ϕ_s115.00000°,δ89.00000°,λ-179.00000°. NP2:ϕ_s25.00000°,δ89.00000°,λ-1.00000°. Principal axes: T 0.8850,Plg0.0000°,Azm250.0000°; N -0.1380,Plg88.0000°,Azm159.0000° ; P -0.7480,Plg2.0000°,Azm340.0000° $M_0$0.81600×10^{17}
IDC VI 14 04 22 20.2–6.5 53.57N 169.98E 0 3.5,3.3
¶17206085
IDC Error ellipse: s-maj=218.6km s-min=33.6km az=163.0.
KRSC VI 16 10 15 20.2–2.9 53.07N 168.59E 6–39 4.0L
MOS VI 16 10 15 20.1–2.6 53.06N 168.59E 6 4.1b **¶16621533**
KRSC Event type se.
MOS Error ellipse: s-maj=80.0km s-min=15.3km az=10.8.
ISC VI 25 11 10 27.0–.90 54.84N–.06 165.82E–.07 26 3.3b 59 0-67
IDC VI 25 11 10 23.6–2.3 54.59N 166.29E 0 3.7,3.4 **¶16682691**

KRSC VI 25 11 10 25.3–1.9 54.77N 165.63E 30–11 3.9L,3.4
ISCJB VI 25 11 10 26.5–.68 54.81N–.05 165.72E–.08 26 3.2b,3.4
MOS VI 25 11 10 26.3–.80 54.81N 165.96E 29 4.1b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=105.2km s-min=30.9km az=157.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=4.1km az=141.7.
MOS Error ellipse: s-maj=13.4km s-min=9.0km az=149.0.
KRSC VI 28 06 09 02.8–1.3 54.78N 165.71E 20–16 3.8L
¶603071589
KRSC Event type se.
ISC VI 28 22 09 07.5–.90 54.48N–.09 168.52E–.07 24 4.0b 56 2-65
MOS VI 28 22 09 04.1–1.2 54.53N 168.67E 15 4.1b **¶16685755**
IDC VI 28 22 09 04.6–1.9 54.67N 168.55E 0 4.1,3.9
ISCJB VI 28 22 09 05.6–.65 54.44N–.07 168.49E–.06 24 3.9b,2.7s
KRSC VI 28 22 09 06.0–2.6 54.41N 168.16E 16–34 4.4L,2.7s
ISC Event type se.
MOS Error ellipse: s-maj=16.0km s-min=9.3km az=16.0.
IDC Error ellipse: s-maj=56.5km s-min=18.5km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=4.9km az=171.2.
KRSC Event type se.
KRSC VI 28 23 37 06.7–2.4 54.32N 167.85E 2–49 3.6L
¶603071590
KRSC Event type se.
KRSC VI 30 21 54 26.3–1.6 54.77N 165.50E 20–10 3.8L
¶603071596
KRSC Event type se.

(5) Near Islands.

ISC I 16 17 51 55.9–.97 53.1N–.20 171.24E–.09 27 3.5b 11 8-83
IDC I 16 17 51 51.5–.82 53.04N 171.35E 0 3.7,3.6 **¶17190342**
ISCJB I 16 17 51 53.9–.78 53.1N–.20 171.3E–.20 27 3.6s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 16 51 07.4–.56 52.62N–.08 174.48E–.04 85–3 4.8b 478 3-145
ISCJB I 17 16 51 06.8–.64 52.57N–.05 174.58E–.03 96–5 4.8b **¶16009126**
MOS I 17 16 51 06.7–1.2 52.74N 174.48E 86 4.7b
BJI I 17 16 51 06.6 52.98N 174.13E 84 5.1b,4.9s
NEIC I 17 16 51 08.4–.43 52.64N 174.53E 94–4 5.0b,4.9s
IDC I 17 16 51 09.0–1.8 52.68N 174.52E 96–14 4.6,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=3.2km az=2.9.
MOS Error ellipse: s-maj=11.8km s-min=6.1km az=104.5.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=2.8km az=176.0.
IDC Error ellipse: s-maj=14.3km s-min=8.7km az=166.0.
IDC II 14 12 31 25.8–13 51.35N 174.92E 0 3.5,3.2
¶17192239
IDC Error ellipse: s-maj=291.1km s-min=81.6km az=89.0.
ISC II 16 14 54 25.1–1.5 52.2N–.30 171.60E–.07 35 3.4b 15 2-64
IDC II 16 14 54 19.7–2.0 52.10N 171.64E 0 3.8,3.8s **¶16398350**
ISCJB II 16 14 54 22.7–1.3 52.2N–.20 171.52E–.10 33 3.8s,3.4b
NEIC II 16 14 54 25.2–1.7 52.27N 171.63E 36–14 4.0b,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=51.0km s-min=19.5km az=2.0.
ISCJB Event type se. Error ellipse: s-maj=31.9km s-min=7.9km az=174.6.
NEIC Event type se. Error ellipse: s-maj=30.2km s-min=9.4km az=178.0.
ISC II 22 17 18 22.8–.78 52.2N–.10 173.04E–.07 24 3.9b 41 1-83
IDC II 22 17 18 19.0–.79 52.09N 173.02E 0 4.2,4.0 **¶16168903**
ISCJB II 22 17 18 20.8–.55 52.13N–.09 172.97E–.08 24 4.0b,4.0
MOS II 22 17 18 21.2–.88 52.10N 172.91E 27 4.3b,4.0
NEIC II 22 17 18 21.1–1.3 52.08N 173.04E 14–7 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=13.9km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=6.1km az=161.6.
MOS Error ellipse: s-maj=14.7km s-min=9.7km az=85.1.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=4.6km az=172.0.
ISC III 30 17 58 13.2–.75 52.30N–.07 170.09E–.07 35 4.0b 85 4-78
MOS III 30 17 58 06.9–.94 52.25N 170.40E 9 4.8b **¶16399876**
IDC III 30 17 58 07.7–1.0 52.30N 170.40E 0 4.1,3.9
NEIC III 30 17 58 10.4–4.3 52.31N 170.39E 16–26 4.3b,3.9
ISCJB III 30 17 58 11.5–.49 52.39N–.06 170.20E–.06 33 4.0b,3.9
KRSC III 30 17 58 15.3–1.6 52.46N 169.13E 6–3 4.2L,3.9
ISC Event type se.
MOS Error ellipse: s-maj=12.2km s-min=7.0km az=132.1.
IDC Error ellipse: s-maj=26.0km s-min=17.6km az=175.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=7.2km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=180.0.
KRSC Event type se.
ISC IV 14 13 22 38.6–1.2 52.9N–.20 170.06E–.07 35 3.7b,3.7s 44 3-77
MOS IV 14 13 22 35.5–1.6 52.69N 170.25E 33 4.0b,3.7s **¶16437944**
KRSC IV 14 13 22 38.8–1.7 52.74N 169.30E 6–3 4.5L,3.7s
IDC IV 14 13 22 40.9–7.2 53.35N 170.06E 34–60 3.7,3.7
ISC Event type se.
MOS Error ellipse: s-maj=15.4km s-min=10.6km az=128.0.
KRSC Event type se.
IDC Error ellipse: s-maj=33.3km s-min=16.5km az=164.0.
ISC IV 19 02 37 01.1–1.0 52.2N–.10 171.15E–.07 35 3.5b 24 4-65
ISCJB IV 19 02 36 59.5–.73 52.34N–.10 171.24E–.08 33 3.5b **¶16448791**
IDC IV 19 02 36 59.1–2.2 52.95N 171.23E 0 3.8,3.6
KRSC IV 19 02 37 00.9–1.4 52.24N 170.58E 19–10 3.6L,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=7.1km az=7.4.
IDC Error ellipse: s-maj=70.5km s-min=18.0km az=175.0.
KRSC Event type se.
ISC IV 20 07 12 55.7–.40 53.94N–.05 170.80E–.04 30–2 4.5b,3.7s 358 2-87
KRSC IV 20 07 12 52.5–2.5 53.92N 170.54E 29–14 4.9L,3.7s **¶16448744**
MOS IV 20 07 12 53.4–.91 53.89N 170.82E 30 4.7b,3.7s
ISCJB IV 20 07 12 53.9–.88 53.95N–.04 170.72E–.02 33–6 4.5b,3.7s
IDC IV 20 07 12 55.4–.48 53.95N 170.86E 30–2 4.6L,4.2
BJI IV 20 07 12 55.7 54.43N 170.52E 34 4.9b,4.6b
NEIC IV 20 07 12 56.2–.20 53.92N 170.86E 35 4.6b,4.6b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=6.7km s-min=5.7km az=38.7.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.3km az=178.8.
IDC Error ellipse: s-maj=14.0km s-min=8.7km az=165.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=2.6km az=175.0.
ISC V 06 03 17 55.4–2.4 52.1N–.40 173.0E–.20 24 3.7b 10 24-78
IDC V 06 03 17 51.8–2.3 52.08N 173.01E 0 4.0,3.7 **¶17202897**
ISCJB V 06 03 17 52.9–2.0 52.0N–.30 172.9E–.20 24 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 23 00 31 14.1–2.5 51.89N 173.77E 0 3.8,3.5
¶17204264
IDC Error ellipse: s-maj=68.7km s-min=25.0km az=6.0.
ISC VI 04 09 39 32.4–1.1 52.8N–.20 170.87E–.09 24 3.7b 8 8-86
IDC VI 04 09 39 28.6–.91 52.68N 171.01E 0 3.8,3.5 **¶17205177**
ISCJB VI 04 09 39 30.6–.84 52.9N–.20 170.7E–.10 24 3.5s,3.5b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 20 01 59 59.3–2.9 51.53N 171.12E 0 3.9,3.6
¶17206562
IDC Error ellipse: s-maj=80.8km s-min=35.0km az=178.0.

(6) Rat Islands.

ISC I 09 05 53 24.3–1.3 50.7N–.10 176.37E–.06 35 3.8b 22 2-68
IDC I 09 05 53 21.8–2.8 51.16N 176.50E 0 3.9,3.6 **¶16022596**
ISCJB I 09 05 53 22.1–.91 50.64N–.09 176.31E–.07 33 3.5b,3.6
NEIC I 09 05 53 23.6 50.77N 176.36E 25 3.4L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=70.7km s-min=27.4km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=6.4km az=178.9.
NEIC Event type se. After AEIC.
IDC I 11 13 49 05.1–8.5 52.26N 177.45E 0 4.0,3.9
¶17189920
IDC Error ellipse: s-maj=207.4km s-min=31.6km az=162.0.
ISC I 15 13 16 42.1–.97 51.3N–.10 178.84E–.05 45 3.9b 45 0-60
IDC I 15 13 16 37.4–1.8 51.57N 178.97E 0 4.1,3.9 **¶16151474**
ISCJB I 15 13 16 40.3–.74 51.15N–.09 178.77E–.05 45 3.9b,3.9
NEIC I 15 13 16 41.1 51.19N 178.79E 21 4.3b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=48.0km s-min=17.5km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=4.6km az=5.4.
NEIC Event type se. After AEIC.
ISC I 18 05 14 23.0–.31 51.58N–.05 179.88E–.03 10 4.8b,3.8s 471 0-132
ISCJB I 18 05 14 21.7–.14 51.65N–.04 179.84E–.02 10 4.7b,3.7s **¶15934896**
BJI I 18 05 14 22.2 52.16N 179.76E 10 5.2b,5.0b
NEIC I 18 05 14 23.3 51.55N 179.91E 7 4.8L,4.8b
MOS I 18 05 14 25.2–1.0 51.75N 179.83E 33 4.6b,4.8b
IDC I 18 05 14 26.8–1.9 51.72N 179.87E 33–13 4.4,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.1km az=175.5.
NEIC Event type se. After AEIC.
MOS Error ellipse: s-maj=12.2km s-min=9.0km az=100.4.
IDC Error ellipse: s-maj=15.0km s-min=9.1km az=162.0.
ISC I 18 13 41 47.0–1.1 51.1N–.10 177.91E–.06 33 3.6b 23 1-61
IDC I 18 13 41 42.8–1.8 51.32N 177.97E 0 4.0,3.9L **¶16009129**
NEIC I 18 13 41 48.4–1.2 51.15N 177.92E 48–8 4.4b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=59.2km s-min=20.0km az=1.0.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=8.4km az=183.0.
ISC I 25 11 48 07.4–.80 52.6N–.10 178.29E–.07 150 3.2b 19 1-149
ISCJB I 25 11 48 06.9–.42 52.37N–.09 178.16E–.09 150 3.3b **¶16135779**
IDC I 25 11 48 06.9–11 52.29N 178.11E 146–105 4.1s,4.1
NEIC I 25 11 48 08.6 52.06N 178.19E 161 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=6.6km az=20.6.
IDC Error ellipse: s-maj=35.7km s-min=23.6km az=23.0.
NEIC Event type se. After AEIC.
ISC II 07 20 47 58.7–.61 52.0N–.10 176.81E–.04 100 4.0b 53 1-84
ISCJB II 07 20 47 57.6–.35 52.12N–.10 176.88E–.05 100 4.0b **¶16328772**
NEIC II 07 20 47 58.2 51.75N 176.68E 85 3.8
IDC II 07 20 47 58.7–4.1 52.08N 176.84E 95–37 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=3.6km az=11.6.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=20.9km s-min=12.2km az=173.0.
ISC II 07 23 24 49.2–.89 51.34N–.10 179.77E–.03 10 3.7b 29 0-60
ISCJB II 07 23 24 47.8–.85 51.18N–.08 179.77E–.05 10 3.5b **¶16342594**
IDC II 07 23 24 47.9–2.3 51.41N 179.79E 0 4.0L,3.9
NEIC II 07 23 24 49.5 51.35N 179.78E 6 3.5L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=3.9km az=13.8.
IDC Error ellipse: s-maj=81.0km s-min=21.5km az=1.0.
NEIC Event type se. After AEIC.
ISC II 16 06 02 26.9–.73 51.56N–.06 179.90E–.03 10 3.8b 33 0-59
IDC II 16 06 02 15.2–9.9 51.85N 177.45E 0 4.0,3.7b **¶16398322**
ISCJB II 16 06 02 27.0–.47 51.52N–.05 179.94E–.04 10 3.6b,3.0s
NEIC II 16 06 02 27.0 51.55N 179.89E 6 3.5L,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=188.7km s-min=47.5km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.3km az=7.9.
NEIC Event type se. After AEIC.
ISC II 18 22 15 28.9–1.4 51.6N–.20 178.99E–.07 100 3.8b 28 0-69
IDC II 18 22 15 18.4–1.7 51.56N 178.86E 0 4.1L,3.9 **¶16342612**
ISCJB II 18 22 15 28.0–.81 51.7N–.20 179.00E–.07 100 3.7b,3.9
NEIC II 18 22 15 28.2 51.55N 178.96E 75 3.5,3.9
ISC Event type se.
IDC Error ellipse: s-maj=51.2km s-min=17.6km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=23.1km s-min=5.9km az=7.0.
NEIC Event type se. After AEIC.
ISC II 19 03 59 10.8–.48 52.06N–.07 178.19E–.03 145–3 4.6b 620 0-149
BJI II 19 03 59 08.7 52.12N 177.96E 134 5.1b,4.6b **¶16032635**
MOS II 19 03 59 09.8–.95 52.11N 178.22E 146 4.6b,4.6b
ISCJB II 19 03 59 10.0–.24 52.04N–.04 178.27E–.03 155–2 4.5b,4.6b
NEIC II 19 03 59 10.8–.18 52.07N 178.18E 145–1 4.7b,4.6b
IDC II 19 03 59 11.8–1.2 52.18N 178.16E 152–9 4.5,4.2
ISC Event type se.
MOS Error ellipse: s-maj=8.0km s-min=6.3km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=2.9km az=179.8.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.1km az=175.0.
IDC Error ellipse: s-maj=13.1km s-min=7.4km az=167.0.
ISC II 25 11 54 21.8–1.0 52.2N–.20 175.9E–.10 33 3.9b 16 16-84
IDC II 25 11 54 16.5–1.0 52.11N 175.88E 0 4.0,3.8 **¶16168924**
NEIC II 25 11 54 18.3–.44 52.14N 175.89E 10 4.2b,3.8
ISCJB II 25 11 54 20.0–.68 52.2N–.10 175.9E–.20 33 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 26 07 30 25.4–1.8 52.0N–.30 175.7E–.10 36 3.6b 12 19-67
IDC II 26 07 30 20.1–1.8 52.04N 175.67E 0 4.2L,3.9 **¶17192893**
ISCJB II 26 07 30 23.6–1.5 52.1N–.30 175.7E–.20 36 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC II 26 16 24 04.2–.88 51.8N–.20 179.9E–.10 128 3.3b 11 14-85
ISCJB II 26 16 24 02.6–.72 51.9N–.20 179.8E–.20 128 3.3b **¶17192910**
IDC II 26 16 24 10.4–5.9 51.83N 179.89E 187–57 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.7km s-min=12.7km az=154.9.
IDC Error ellipse: s-maj=43.3km s-min=15.2km az=165.0.
IDC III 01 11 54 47.1–3.2 50.62N 179.45E 0 3.7,3.5
¶17193070
IDC Error ellipse: s-maj=89.0km s-min=23.9km az=177.0.
ISC III 01 12 14 19.3–.58 51.0N–.10 179.51E–.05 48 4.4b,3.6s 126 1-150
BJI III 01 12 14 12.0 50.70N 179.20E 10 4.8b,4.8s **¶16425218**
MOS III 01 12 14 15.9–1.1 51.07N 179.49E 33 4.6b,4.8s
NEIC III 01 12 14 16.2 50.96N 179.46E 25 4.5b,4.1L
ISCJB III 01 12 14 17.8–.40 51.08N–.08 179.49E–.04 48 4.3b,3.5s
IDC III 01 12 14 24.8–3.9 51.23N 179.62E 92–33 4.1,4.0
ISC Event type se.
MOS Error ellipse: s-maj=12.7km s-min=7.8km az=114.0.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=3.5km az=175.3.
IDC Error ellipse: s-maj=20.7km s-min=11.4km az=176.0.
ISC III 01 12 49 59.6–.35 51.20N–.05 179.55E–.03 43–2 5.4b,4.8s 1412 1-160
IDC III 01 12 49 53.1–.38 51.20N 179.63E 0 5.1L,5.1 **¶16168972**
MOS III 01 12 49 57.9–.87 51.25N 179.55E 42 5.5b,4.9s
BJI III 01 12 49 57.3 51.28N 179.46E 45 5.5b,5.3b
NEIC III 01 12 49 58.3 51.02N 179.60E 30 5.4b,5.3L
GCMT III 01 12 49 58.3–.10 51.07N 179.47E 20–0 5.4W,5.3L
ISCJB III 01 12 49 59.3–.36 51.19N–.03 179.63E–.02 59–2 5.3b,4.8s
ISC Event type se.
NEIC Event type se. After AEIC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c168; s115,c213;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.01±.03 $M_{\theta\theta}$-1.02±.02; $M_{\phi\phi}$0.01±.01; $M_{r\theta}$0.96±.04; $M_{\theta\phi}$-0.18±.01; $M_{\phi r}$0.42±.03; Best double couple: NP1:ϕ_s70.00000°,δ68.00000°,λ82.00000°. NP2:ϕ_s271.00000° ,δ23.00000°,λ109.00000°. Principal axes: T 1.4690,Plg66.0000°,Azm327.0000° ; N 0.0060,Plg7.0000°,Azm73.0000°; P -1.4750,Plg23.0000°,Azm166.0000° $M_0$1.47200×10^{17}
ISCJB Event type se.
NEIC III 01 12 54 17.5 50.82N 179.71E 14 3.5L

¶602442001

NEIC Event type se. After AEIC.
ISC III 02 10 48 17.8–2.9 51.1N–.30 179.63E–.05 61–18 3.7b 23 1-60
IDC III 02 10 48 09.5–2.1 51.00N 179.47E 0 3.9L,3.8 **¶16425220**
NEIC III 02 10 48 13.7 50.82N 179.69E 21 3.4L,3.8
ISC Event type se.
IDC Error ellipse: s-maj=63.6km s-min=20.9km az=4.0.
NEIC Event type se. After AEIC.
ISC III 08 11 32 10.5–.68 52.6N–.20 178.47E–.05 150 3.5b 28 2-85
IDC III 08 11 32 09.0–5.8 52.23N 178.57E 149–55 3.8,3.6 **¶16449413**
NEIC III 08 11 32 10.9 53.40N 178.74E 25 3.2L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=13.9km az=165.0.
NEIC Event type se. After AEIC.
ISC III 19 23 45 56.3–1.1 52.0N–.20 178.3E–.10 113 3.6b 11 18-85
IDC III 19 23 45 42.4–.97 51.78N 178.30E 0 3.9,3.7 **¶17197351**
ISCJB III 19 23 45 54.8–.80 52.1N–.20 178.3E–.20 113 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 17 45 46.6–1.4 51.3N–.30 179.99E–.08 35 3.5b 25 1-59
IDC III 23 17 45 40.6–2.7 51.13N 179.94W 0 3.6,3.4 **¶16480485**
NEIC III 23 17 45 43.0 51.17N 179.83E 50 3.3L,3.4
ISCJB III 23 17 45 44.1–.92 51.2N–.20 179.95E–.10 33 3.4b,3.4
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC IV 08 17 42 07.2–1.5 51.3N–.30 179.56E–.07 48 4.0b 26 1-70
NEIC IV 08 17 42 04.0 51.07N 179.66E 10 3.6L **¶16577760**
ISCJB IV 08 17 42 05.3–1.1 51.4N–.20 179.39E–.06 48 3.9b,3.1s
IDC IV 08 17 42 10.9–5.6 51.35N 179.62E 86–51 3.9,3.7
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=31.7km s-min=5.4km az=177.3.
IDC Error ellipse: s-maj=41.4km s-min=14.5km az=168.0.
ISC IV 26 01 28 35.5–.41 51.26N–.06 179.19E–.03 41–2 4.9b,4.7s 856 1-150
IDC IV 26 01 28 29.3–.40 51.28N 179.20E 0 4.8,4.7 **¶16459954**
MOS IV 26 01 28 33.2–1.1 51.27N 179.22E 33 5.2b,4.6s
ISCJB IV 26 01 28 35.1–.42 51.22N–.04 179.23E–.02 52–3 4.9b,4.7s
NEIC IV 26 01 28 36.5–.43 51.25N 179.16E 48–3 5.0L,4.9b
GCMT IV 26 01 28 36.5–.10 51.17N 179.17E 21–0 5.4W,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=8.5km az=163.0.
MOS Error ellipse: s-maj=6.4km s-min=4.8km az=96.1.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=2.3km az=178.8.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=2.7km az=179.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c162; s114,c208; Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.91±.02 $M_{\theta\theta}$-0.98±.02; $M_{\phi\phi}$0.07±.01; $M_{r\theta}$0.84±.04; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$0.48±.03; Best double couple: NP1:ϕ_s64.00000°,δ68.00000°,λ80.00000°. NP2:ϕ_s270.00000°,δ24.00000°,λ114.00000°. Principal axes: T 1.3320,Plg66.0000°,Azm316.0000°; N 0.0980,Plg10.0000°,Azm68.0000° ; P -1.4300,Plg22.0000°,Azm162.0000° $M_0$1.38100×10^{17}
ISC IV 26 05 27 02.3–1.4 52.0N–.30 179.32E–.06 35 3.5b 25 1-60
NEIC IV 26 05 26 57.1 51.23N 179.15E 20 3.4L **¶602546214**
IDC IV 26 05 27 16.9–12 52.36N 176.13W 0 3.7,3.4
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=241.0km s-min=57.0km az=75.0.
ISC V 04 15 12 00.8–1.0 51.2N–.20 179.40E–.06 48 4.1b 38 1-85
NEIC V 04 15 11 56.5 50.86N 179.56E 10 3.7L **¶16577985**
ISCJB V 04 15 11 58.3–.74 51.1N–.10 179.39E–.06 48 3.9b
IDC V 04 15 12 00.3–4.5 51.23N 179.55E 45–42 3.9,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=20.1km s-min=4.6km az=170.6.
IDC Error ellipse: s-maj=33.5km s-min=16.4km az=167.0.
ISC V 09 12 31 03.5–1.9 51.1N–.20 179.34E–.06 57–15 3.8b,2.8s 41 1-85
IDC V 09 12 30 55.8–.83 51.07N 179.29E 0 4.0,3.9 **¶16709260**
ISCJB V 09 12 31 01.0–.98 51.0N–.10 179.27E–.09 54–8 3.9b,2.8s
NEIC V 09 12 31 03.0–.62 51.11N 179.36E 52–5 4.0b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=15.9km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=8.4km az=169.8.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=5.5km az=175.0.
ISC V 15 04 16 33.5–.76 51.0N–.10 179.23E–.04 35 4.0b 68 1-150
ISCJB V 15 04 16 31.3–.57 51.04N–.10 179.02E–.06 35 4.0b,3.2s **¶16521346**
NEIC V 15 04 16 32.8 50.86N 179.24E 25 4.1b,3.9L
IDC V 15 04 16 38.6–4.7 51.28N 179.32E 75–42 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=4.6km az=171.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=28.0km s-min=12.7km az=172.0.
ISC V 23 02 24 38.3–.95 51.40N–.09 179.83E–.06 48 3.7b 28 0-60
IDC V 23 02 24 31.2–2.1 51.82N 179.93E 0 3.9,3.7 **¶16587342**
NEIC V 23 02 24 38.8 51.44N 179.85E 62 3.6L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=69.3km s-min=19.5km az=10.0.
NEIC Event type se. After AEIC.
ISC V 24 02 34 37.2–1.0 51.72N–.09 176.45E–.04 53–9 4.3b,3.1s 100 1-145
NEIC V 24 02 34 34.3 51.53N 176.33E 28 4.2b,4.0L **¶16560137**
MOS V 24 02 34 35.5–.97 51.87N 176.49E 50 4.5b,4.0L
ISCJB V 24 02 34 36.5–.55 51.79N–.08 176.49E–.05 62–5 4.3b,4.0L
IDC V 24 02 34 36.7–3.5 51.81N 176.55E 47–32 4.2,4.1
ISC Event type se.
NEIC Event type se. After AEIC.
MOS Error ellipse: s-maj=15.5km s-min=8.6km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=5.2km az=4.3.
IDC Error ellipse: s-maj=22.4km s-min=13.9km az=167.0.
NEIC V 26 20 55 29.2 50.22N 178.78E 25 3.5L

¶602607444

NEIC Event type se. After AEIC.
ISC VI 02 12 33 59.1–1.1 51.8N–.20 178.5E–.10 113 3.3b 7 13-85
ISCJB VI 02 12 33 57.7–.91 51.8N–.20 178.6E–.20 113 3.3b **¶17205000**
IDC VI 02 12 34 02.7–8.4 51.98N 178.28E 150–83 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.6km s-min=15.1km az=157.5.
IDC Error ellipse: s-maj=68.2km s-min=17.6km az=150.0.
ISC VI 14 12 27 32.2–2.2 52.2N–.40 175.2E–.10 39 3.6b 9 11-83
ISCJB VI 14 12 27 29.7–2.0 52.0N–.40 175.1E–.20 39 3.6b **¶17206113**
IDC VI 14 12 27 33.3–4.9 52.15N 175.15E 50–41 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=53.9km s-min=15.3km az=175.7.
IDC Error ellipse: s-maj=59.2km s-min=20.3km az=179.0.
ISC VI 18 16 14 04.2–1.2 51.5N–.10 178.68E–.05 78–11 3.9b 51 2-85
ISCJB VI 18 16 14 02.6–.66 51.49N–.10 178.65E–.05 80–6 3.7b **¶16730898**
NEIC VI 18 16 14 02.1 51.48N 178.62E 74 4.0b
IDC VI 18 16 14 06.7–5.7 51.57N 178.61E 101–52 3.8,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=5.5km az=2.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=30.6km s-min=13.0km az=163.0.
ISC VI 21 16 42 13.1–.53 51.19N–.07 179.21E–.03 47–3 5.0b,4.2s 858 1-154
IDC VI 21 16 42 10.9–2.2 51.33N 179.37E 27–13 4.8,4.7b **¶16640782**
MOS VI 21 16 42 11.0–.96 51.40N 179.29E 35 5.2b,4.1s
NEIC VI 21 16 42 12.1–.17 51.30N 179.17E 35 5.0b,4.9L
GCMT VI 21 16 42 12.1–.30 51.17N 179.23E 27–1 5.0W,4.9L
BJI VI 21 16 42 13.0 51.45N 179.03E 58 5.2b,5.1b
ISCJB VI 21 16 42 13.1–.40 51.30N–.04 179.29E–.02 60–3 5.0b,4.2s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c57; s75,c115;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.97±.18 $M_{\theta\theta}$-2.81±.12; $M_{\phi\phi}$-0.16±.10; $M_{r\theta}$2.51±.21; $M_{\theta\phi}$-0.81±.07; $M_{\phi r}$1.83±.21; Best double couple: NP1:ϕ_s60.00000°,δ68.00000°,λ79.00000°. NP2:ϕ_s267.00000°,δ24.00000°,λ115.00000°. Principal axes: T 4.3840,Plg65.0000°,Azm312.0000°; N -0.1270,Plg10.0000°,Azm64.0000° ; P -4.2560,Plg23.0000°,Azm158.0000° $M_0$4.32000×10^{16}
ISCJB Event type se.

(7) Andreanof Islands.

ISC I 01 11 01 16.8–2.0 51.0N–.10 176.09W–.05 10 18 1-21
NEIC I 01 11 01 20.5 51.08N 176.18W 26 3.1L **¶601988570**
IDC I 01 11 02 01.5–1.8 53.08N 170.74W 0 3.8,3.6
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=71.5km s-min=26.7km az=139.0.
ISC I 03 14 59 47.3–1.5 51.6N–.20 175.98W–.05 52–11 3.6b 43 0-87
IDC I 03 14 59 40.2–1.3 51.66N 176.14W 0 4.0L,3.8 **¶15964337**
ISCJB I 03 14 59 46.7–.84 51.6N–.10 175.99W–.07 64–4 3.4b,3.8
NEIC I 03 14 59 46.2 51.50N 175.96W 42 3.4L,3.8
ISC Event type se.
IDC Error ellipse: s-maj=44.0km s-min=17.8km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=23.2km s-min=4.4km az=166.3.
NEIC Event type se. After AEIC.
ISC I 03 15 36 32.9–1.0 51.54N–.08 176.23W–.03 48–7 4.3b,3.4s 149 0-152
BJI I 03 15 36 26.6 51.70N 175.72W 31 5.0b,4.9b **¶15964338**
NEIC I 03 15 36 32.1 51.46N 176.20W 34 4.5b,4.4L
IDC I 03 15 36 32.2–1.9 51.73N 176.37W 39–15 4.4L,4.1
ISCJB I 03 15 36 33.1–.41 51.68N–.07 176.27W–.04 62–2 4.3b,4.1
MOS I 03 15 36 34.3–1.2 51.72N 176.24W 76 4.3b,4.1
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=18.5km s-min=10.4km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=3.2km az=169.3.
MOS Error ellipse: s-maj=14.0km s-min=9.7km az=95.9.
ISC I 06 00 39 03.5–1.1 50.5N–.10 173.23W–.05 35 3.6b 29 2-77
IDC I 06 00 38 57.0–2.3 50.07N 173.34W 0 3.7s,3.7 **¶16031119**
ISCJB I 06 00 39 00.7–.81 50.45N–.07 173.16W–.06 33 3.7s,3.5b
NEIC I 06 00 39 01.9 50.47N 173.29W 18 3.3L,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=57.7km s-min=27.4km az=8.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.1km az=2.3.
NEIC Event type se. After AEIC.
ISC I 10 16 07 56.7–.77 52.1N–.10 179.87W–.08 200 3.4b 27 0-86
IDC I 10 16 07 47.6–10 52.20N 179.82E 104–93 4.2L,3.7 **¶15994814**
ISCJB I 10 16 07 55.5–.43 52.04N–.10 179.8W–.10 200 3.4b,3.7
NEIC I 10 16 07 56.7–.39 52.20N 179.89W 187–4 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=27.4km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=7.7km az=155.9.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=9.3km az=150.0.
ISC I 11 02 44 05.0–.77 51.66N–.07 176.10W–.03 57–5 4.8b,3.9s 815 0-160
ISCJB I 11 02 44 03.8–.29 51.72N–.03 176.12W–.02 61–2 4.8b,3.9s **¶15917542**
IDC I 11 02 44 03.1–1.9 51.68N 176.22W 40–15 4.4,4.4
NEIC I 11 02 44 04.7–.27 51.65N 176.23W 54–2 4.9b,4.8L
MOS I 11 02 44 04.6–1.2 51.72N 176.01W 72 4.8b,4.8L
BJI I 11 02 44 05.7 52.07N 176.58W 62 5.1b,5.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=2.1km az=175.3.
IDC Error ellipse: s-maj=14.3km s-min=9.5km az=167.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=2.0km az=171.0. Felt on Adak.
MOS Error ellipse: s-maj=13.7km s-min=7.3km az=107.9.
ISC I 12 08 58 41.4–.72 51.45N–.10 175.27W–.04 47 4.2b,3.5s 61 1-152
IDC I 12 08 58 38.2–1.1 52.07N 175.64W 0 4.2,4.2b **¶16019200**
ISCJB I 12 08 58 39.2–.56 51.33N–.07 175.16W–.05 47 4.1b,3.5s
NEIC I 12 08 58 39.2 51.29N 175.22W 26 4.2b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=31.4km s-min=12.9km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=4.1km az=168.1.
NEIC Event type se. After AEIC.
ISC I 12 09 06 31.6–.73 51.36N–.09 175.24W–.04 40 3.9b 46 1-86
IDC I 12 09 06 26.1–1.3 51.48N 175.20W 0 4.2L,4.0 **¶16022165**
ISCJB I 12 09 06 29.8–.53 51.22N–.05 175.14W–.05 40 3.8b,4.0
NEIC I 12 09 06 30.6 51.29N 175.17W 24 4.1b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=42.4km s-min=15.4km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.5km az=173.5.
NEIC Event type se. After AEIC.
ISC I 12 09 50 52.8–.54 51.39N–.08 175.23W–.04 47 4.4b,3.6s 115 1-153
IDC I 12 09 50 46.1–.74 51.43N 175.26W 0 4.2,4.1 **¶15920384**
ISCJB I 12 09 50 50.8–.37 51.28N–.05 175.18W–.04 47 4.3b,3.5s
BJI I 12 09 50 50.9 52.30N 175.81W 15 5.1b,4.9s
NEIC I 12 09 50 51.4 51.29N 175.20W 29 4.4b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=11.5km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.2km az=165.8.
NEIC Event type se. After AEIC.
ISC I 14 06 50 41.2–1.0 52.5N–.10 174.39W–.05 150 3.7b 34 0-75
IDC I 14 06 50 17.9–2.5 52.43N 175.20W 0 5.0L,4.2 **¶15990247**
NEIC I 14 06 50 41.6 52.15N 174.31W 170 3.5,4.2
ISC Event type se.
IDC Error ellipse: s-maj=55.8km s-min=29.3km az=31.0.
NEIC Event type se. After AEIC.
ISC I 16 01 22 10.4–.90 51.6N–.10 177.96W–.03 72–6 3.8b 62 0-151
IDC I 16 01 22 01.1–.78 51.61N 178.13W 0 3.9,3.8L **¶16031148**
ISCJB I 16 01 22 10.1–.44 51.7N–.10 177.96W–.04 83–3 3.6b,3.8L
NEIC I 16 01 22 10.3 51.54N 177.93W 66 4.0L,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=14.5km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=3.5km az=173.7.
NEIC Event type se. After AEIC.
ISC I 17 17 27 37.6–.68 52.6N–.20 174.47W–.06 184–7 3.6b 44 0-88
ISCJB I 17 17 27 36.9–.31 52.7N–.10 174.53W–.08 188–4 3.6b **¶16151681**
NEIC I 17 17 27 38.9 51.86N 174.28W 182 3.7
IDC I 17 17 27 38.6–2.9 52.72N 174.52W 190–27 3.9,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=5.4km az=165.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=20.4km s-min=10.1km az=172.0.
ISC I 19 04 59 53.0–.61 51.28N–.06 178.26W–.03 42–4 5.0b,4.6s 946 1-147
MOS I 19 04 59 50.8–1.1 51.34N 178.22W 37 5.1b,4.5s **¶15938056**
BJI I 19 04 59 50.0 51.64N 178.26W 33 5.3b,5.1b
ISCJB I 19 04 59 52.5–.37 51.27N–.04 178.18W–.02 54–2 5.0b,4.6s
IDC I 19 04 59 53.0–1.8 51.37N 178.24W 42–15 4.7,4.7L
NEIC I 19 04 59 54.3–.31 51.38N 178.29W 51–2 5.0b,4.8L
GCMT I 19 04 59 54.3–.40 51.12N 178.24W 33–1 5.3W,4.8L
ISC Event type fe.
MOS Error ellipse: s-maj=11.1km s-min=5.7km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.0km az=2.4.
IDC Error ellipse: s-maj=14.3km s-min=8.5km az=162.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=1.9km az=180.0. Felt on Adak.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s64,c95; Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.82±.07 $M_{\theta\theta}$-0.62±.04; $M_{\phi\phi}$-0.20±.04; $M_{r\theta}$0.69±.06; $M_{\theta\phi}$-0.29±.03; $M_{\phi r}$0.19±.06; Best double couple: NP1:ϕ_s71.00000°,δ66.00000°,λ96.00000°. NP2:ϕ_s236.00000°,δ25.00000°,λ77.00000°. Principal axes: T 1.1080,Plg68.0000°,Azm352.0000°; N -0.0750,Plg5.0000°,Azm248.0000° ; P -1.0330,Plg21.0000°,Azm156.0000° $M_0$1.07100×10^{17}
ISC I 19 22 21 13.8–.69 51.6N–.10 176.80W–.05 48 3.6b 34 0-152
IDC I 19 22 21 07.0–.77 51.57N 176.97W 0 3.9L,3.8 **¶16151880**
ISCJB I 19 22 21 12.8–.62 51.39N–.07 176.71W–.07 48 3.5b,3.8
NEIC I 19 22 21 14.2 51.46N 176.72W 35 3.4L,3.8
ISC Event type se.
IDC Error ellipse: s-maj=33.6km s-min=15.5km az=165.0.

ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.2km az=161.4.
NEIC Event type se. After AEIC.

ISC	**I**	**20 22 15 42.3–.52**	**51.24N–.07**	**178.27W–.03**	**40–3**	**4.6b,3.9s**	**504**	**1-151**	
IDC	I	20 22 15 36.2–.55	51.31N	178.24W	0	4.5,4.4			¶15947991
MOS	I	20 22 15 39.4–1.1	51.28N	178.10W	33	4.7b,4.4			
NEIC	I	20 22 15 41.5	51.17N	178.17W	23	4.7b,4.4			
ISCJB	I	20 22 15 42.5–.42	51.28N–.05	178.20W–.02	57–2	4.6b,3.9s			
BJI	I	20 22 15 42.1	51.51N	178.65W	43	5.1b,4.8b			

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=10.8km az=165.0.
MOS Error ellipse: s-maj=13.8km s-min=7.5km az=99.6.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=2.4km az=0.2.

ISC	**I**	**20 23 41 37.1–.67**	**51.90N–.08**	**175.99W–.03**	**60–5**	**4.6b,4.2s**	**256**	**0-152**	
IDC	I	20 23 41 28.5–.61	51.94N	176.14W	0	4.4L,4.4			¶15957986
BJI	I	20 23 41 34.6	52.53N	175.60W	59	5.1b,4.8s			
ISCJB	I	20 23 41 36.3–.29	51.87N–.05	176.00W–.03	75–2	4.5b,4.8s			
NEIC	I	20 23 41 37.3–.29	51.84N	176.04W	63–2	4.6b,4.2L			

ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=10.8km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=3.1km az=168.1.
NEIC Event type se. After AEIC. Error ellipse: s-maj=7.6km s-min=3.0km az=164.0.

ISC	**I**	**22 02 42 55.5–1.8**	**51.7N–.20**	**174.88W–.06**	**55–16**	**3.5b**	**28**	**1-62**	
IDC	I	22 02 42 44.9–2.9	51.23N	175.58W	0	4.2L,3.8			¶16032945
ISCJB	I	22 02 42 54.9–1.0	51.7N–.20	174.85W–.08	57–12	3.9b,3.4s			
NEIC	I	22 02 42 54.1	51.61N	174.88W	13	3.3L,3.4s			

ISC Event type se.
IDC Error ellipse: s-maj=76.0km s-min=29.0km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=26.2km s-min=5.1km az=165.5.
NEIC Event type se. After AEIC.

ISC	**I**	**25 07 46 33.6–.51**	**51.66N–.05**	**176.19W–.03**	**52–3**	**5.3b,4.2s**	**1157**	**0-156**	
IDC	I	25 07 46 26.2–.36	51.72N	176.26W	0	4.9,4.9L			¶15963198
MOS	I	25 07 46 30.1–1.0	51.76N	176.24W	33	5.3b,4.1s			
BJI	I	25 07 46 30.7	51.96N	176.16W	47	5.3b,5.1b			
GCMT	I	25 07 46 31.5–.40	51.45N	176.07W	40–1	5.0W,5.1b			
NEIC	I	25 07 46 31.5	51.42N	176.09W	34	5.3b,5.2L			
ISCJB	I	25 07 46 33.4–.25	51.73N–.03	176.15W–.02	65–2	5.2b,5.2L			

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c73; s71,c102;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.01±.14 $M_{\theta\theta}$-2.77±.10; $M_{\phi\phi}$-0.24±.10; $M_{r\theta}$1.55±.11; $M_{\theta\phi}$-1.12±.08; $M_{\phi r}$1.34±.09; Best double couple: NP1:ϕ_S58.00000°,δ62.00000°,λ79.00000°. NP2:ϕ_D261.00000°,δ30.00000°,λ110.00000°. Principal axes: T 3.6890,Plg71.0000°,Azm304.0000°; N 0.0590,Plg10.0000°,Azm63.0000° ; P -3.7530,Plg16.0000°,Azm156.0000° $M_0$3.72100×10^{16}
NEIC Event type fe. Felt on Adak. After AEIC.
ISCJB Event type fe.

ISC	**I**	**25 08 49 37.9–.72**	**52.7N–.10**	**176.06W–.06**	**200**	**3.2b**	**25**	**1-88**	
IDC	I	25 08 49 35.4–10.0	52.44N	175.95W	158–96	3.6,3.4			¶16005286
ISCJB	I	25 08 49 37.5–.43	52.6N–.10	176.02W–.09	200	3.2b,3.4			
NEIC	I	25 08 49 40.1	52.18N	175.98W	195	3.3,3.4			

ISC Event type se.
IDC Error ellipse: s-maj=60.1km s-min=20.5km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=6.0km az=160.7.
NEIC Event type se. After AEIC.

ISC	**I**	**25 21 53 07.0–.96**	**51.5N–.10**	**175.31W–.04**	**47**	**3.7b**	**37**	**1-68**	
IDC	I	25 21 53 00.0–2.3	51.50N	175.38W	0	3.9,3.8			¶16135808
NEIC	I	25 21 53 06.7	51.43N	175.34W	38	3.7L,3.8			

ISC Event type se.
IDC Error ellipse: s-maj=62.4km s-min=21.1km az=177.0.
NEIC Event type se. After AEIC.

ISC	**I**	**31 00 55 48.1–.84**	**52.9N–.20**	**174.32W–.09**	**200**	**3.2b**	**25**	**0-43**	
IDC	I	31 00 55 09.4–6.7	51.83N	177.46W	0	4.4L,3.8			¶16136260
ISCJB	I	31 00 55 47.5–.45	53.0N–.10	174.4W–.10	200	3.0b,3.8			
NEIC	I	31 00 55 50.1	52.60N	174.47W	190	2.8,3.8			

ISC Event type se.
IDC Error ellipse: s-maj=107.9km s-min=76.7km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=19.1km s-min=6.0km az=148.0.
NEIC Event type se. After AEIC.

ISC	**II**	**04 00 42 17.1–.48**	**51.85N–.07**	**175.87W–.03**	**58–3**	**4.7b,3.9s**	**726**	**0-152**	
IDC	II	04 00 42 09.4–.43	51.89N	175.95W	0	4.6L,4.5			¶16005319
BJI	II	04 00 42 13.9	52.04N	175.44W	67	5.2b,4.9b			
MOS	II	04 00 42 15.6–1.0	51.91N	175.94W	54	5.0b,4.9b			
ISCJB	II	04 00 42 16.8–.25	51.83N–.04	175.88W–.02	70–2	4.6b,4.9b			
NEIC	II	04 00 42 16.2	51.59N	175.81W	38	4.7L,4.7b			

ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=9.1km az=168.0.
MOS Error ellipse: s-maj=8.0km s-min=6.3km az=54.6.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=2.0km az=172.9.
NEIC Event type se. After AEIC.

ISC	**II**	**07 23 28 19.9–.85**	**50.49N–.10**	**173.50W–.04**	**35**	**3.9b**	**43**	**2-74**	
IDC	II	07 23 28 14.0–1.3	50.26N	173.58W	0	4.1,3.9			¶16342595
ISCJB	II	07 23 28 17.8–.63	50.46N–.07	173.53W–.06	33	3.9b,3.9			
NEIC	II	07 23 28 18.4	50.45N	173.51W	20	3.6L,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=36.9km s-min=16.9km az=3.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.0km az=14.6.
NEIC Event type se. After AEIC.

ISC	**II**	**10 14 21 37.5–.75**	**52.0N–.10**	**176.07W–.05**	**150**	**3.4b**	**58**	**0-87**	
IDC	II	10 14 21 20.8–.84	52.20N	176.59W	0	4.3L,4.0			¶16342599
ISCJB	II	10 14 21 35.9–.31	52.10N–.08	176.07W–.05	150	3.5b,4.0			
NEIC	II	10 14 21 39.6	52.07N	176.05W	120	4.1b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=16.8km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=3.2km az=163.3.
NEIC Event type se. After AEIC.

ISC	**II**	**12 02 08 09.5–2.0**	**50.1N–.10**	**179.26W–.05**	**44–16**	**4.1b**	**74**	**2-152**	
IDC	II	12 02 08 02.9–.88	50.02N	179.33W	0	4.1,3.9			¶16168838
NEIC	II	12 02 08 04.1–.35	49.87N	179.38W	10	4.3L,4.2b			
ISCJB	II	12 02 08 08.4–1.0	50.09N–.08	179.23W–.05	51–7	4.0b,4.2b			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**II**	**14 16 56 03.4–.79**	**51.58N–.10**	**175.95W–.04**	**47**	**3.6b**	**33**	**0-87**	
IDC	II	14 16 55 57.1–1.1	51.67N	176.01W	0	3.9L,3.8			¶16398200
ISCJB	II	14 16 56 02.4–.64	51.49N–.07	175.93W–.05	47	3.6b,3.2s			
NEIC	II	14 16 56 02.6	51.46N	175.93W	26	3.2L,3.2s			

ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=21.1km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=4.6km az=174.0.
NEIC Event type se. After AEIC.

ISC	**II**	**15 00 24 23.3–1.6**	**51.7N–.20**	**176.01W–.06**	**52–11**	**3.3b**	**29**	**0-61**	
IDC	II	15 00 24 15.4–2.3	51.67N	176.20W	0	3.5,3.3			¶16398217
ISCJB	II	15 00 24 22.9–.81	51.8N–.20	176.06W–.08	68–5	3.3b,3.3			
NEIC	II	15 00 24 22.4	51.51N	176.00W	26	3.1L,3.3			

ISC Event type se.
IDC Error ellipse: s-maj=75.8km s-min=25.2km az=8.0.
ISCJB Event type se. Error ellipse: s-maj=27.9km s-min=6.2km az=167.9.
NEIC Event type se. After AEIC.

ISC	**II**	**22 02 31 52.0–1.1**	**52.3N–.30**	**173.35W–.08**	**112**	**3.5b**	**25**	**2-55**	
IDC	II	22 02 31 35.3–10	52.01N	174.43W	0	4.5L,3.9			¶16245270
ISCJB	II	22 02 31 49.9–.67	52.3N–.20	173.3W–.10	112	3.4b,3.9			
NEIC	II	22 02 31 51.0	52.35N	173.31W	50	3.2L,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=194.0km s-min=50.5km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=32.9km s-min=3.8km az=164.4.
NEIC Event type se. After AEIC.

ISC	**II**	**22 21 25 25.2–2.0**	**51.29N–.10**	**175.10W–.04**	**16–10**	**3.7b,2.9s**	**44**	**1-80**	
IDC	II	22 21 25 23.0–1.4	51.50N	175.14W	0	4.0L,3.9			¶16398778
NEIC	II	22 21 25 26.6	51.34N	175.16W	11	3.5L,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=47.0km s-min=17.8km az=0.0.
NEIC Event type se. After AEIC.

ISC	**II**	**23 23 11 39.3–.00**	**51.7N–.10**	**175.20W–.05**	**35**	**3.5b**	**26**	**1-62**	
IDC	II	23 23 11 33.0–1.8	51.76N	175.57W	0	4.1L,3.8			¶16398820
ISCJB	II	23 23 11 38.3–.70	51.59N–.09	175.13W–.05	35	3.5b,3.3s			
NEIC	II	23 23 11 39.4	51.66N	175.20W	26	3.6L,3.3s			

ISC Event type se.
IDC Error ellipse: s-maj=50.6km s-min=25.1km az=8.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=4.6km az=176.9.
NEIC Event type se. After AEIC.

ISC	**II**	**24 02 04 59.3–1.8**	**51.8N–.20**	**179.27W–.07**	**14–9**	**3.7b**	**34**	**0-84**	
IDC	II	24 02 04 56.9–1.1	51.67N	179.35W	0	4.0,3.9L			¶16245283
ISCJB	II	24 02 04 58.7–1.1	51.8N–.10	179.35W–.08	19–7	3.7b,3.9L			
NEIC	II	24 02 05 03.6	51.81N	178.83W	9	3.3L,3.9L			

ISC Event type se.
IDC Error ellipse: s-maj=28.6km s-min=19.8km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=23.6km s-min=8.0km az=1.5.
NEIC Event type se. After AEIC.

ISC	**III**	**06 15 40 28.2–.73**	**51.5N–.10**	**176.86W–.04**	**48**	**3.7b**	**39**	**0-86**	
IDC	III	06 15 40 21.4–.83	51.48N	176.91W	0	4.1L,3.9			¶16451951
NEIC	III	06 15 40 26.9	51.41N	176.78W	33	3.5L,3.9			
ISCJB	III	06 15 40 26.5–.56	51.39N–.06	176.81W–.05	48	3.6b,3.9			

ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.

NEIC	**III**	**09 12 56 35.8**	**51.66N**	**174.06W**	**2**	**2.8L**			
IDC	III	09 12 56 56.3–.84	51.70N	173.37W	0	4.1L,3.9			¶16442209

NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=32.5km s-min=16.3km az=162.0.

ISC	**III**	**09 18 25 23.9–.69**	**52.6N–.20**	**174.47W–.06**	**180–7**	**3.7b**	**50**	**0-88**	
IDC	III	09 18 25 21.6–7.0	52.55N	174.52W	157–67	4.1,4.0			¶16409223
ISCJB	III	09 18 25 23.3–.30	52.6N–.10	174.51W–.07	185–4	3.8b,4.0			
NEIC	III	09 18 25 26.8	52.42N	174.50W	171	3.7,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=45.6km s-min=12.8km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=21.7km s-min=4.1km az=164.4.
NEIC Event type se. After AEIC.

ISC	**III**	**10 20 40 09.3–.92**	**51.56N–.09**	**173.43W–.04**	**37**	**3.6b**	**29**	**1-85**	
IDC	III	10 20 40 03.7–1.3	51.57N	173.50W	0	3.9L,3.8			¶16409228
ISCJB	III	10 20 40 07.1–.67	51.43N–.07	173.33W–.06	37	3.7b,2.6s			
NEIC	III	10 20 40 07.0	51.49N	173.44W	14	3.4L,2.6s			

ISC Event type se.
IDC Error ellipse: s-maj=43.3km s-min=25.9km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.1km az=2.3.
NEIC Event type se. After AEIC.

ISC	**III**	**10 21 31 23.2–.96**	**51.2N–.10**	**178.77W–.06**	**45**	**3.8b**	**33**	**1-85**	
IDC	III	10 21 31 17.3–1.6	51.28N	178.79W	0	3.9,3.8L			¶16404862
ISCJB	III	10 21 31 21.1–.77	51.02N–.09	178.89W–.08	45	3.7b,3.8L			
NEIC	III	10 21 31 23.4	51.12N	178.64W	20	3.4L,3.8L			

ISC Event type se.
IDC Error ellipse: s-maj=47.6km s-min=16.5km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=6.3km az=160.9.
NEIC Event type se. After AEIC.

NEIC	**III**	**11 07 36 11.9**	**51.21N**	**178.42W**	**21**	**4.8b,4.6L**			
									¶602442244

NEIC Event type se. After AEIC.

NEIC	**III**	**11 12 15 06.1**	**51.15N**	**178.42W**	**6**	**3.5L**			
									¶602442253

NEIC Event type se. After AEIC.

ISC	**III**	**12 12 06 17.5–.59**	**51.68N–.08**	**175.38W–.04**	**47**	**4.3b**	**69**	**1-152**	
IDC	III	12 12 06 10.9–.63	51.77N	175.41W	0	4.7L,4.7			¶16442300
ISCJB	III	12 12 06 16.9–.40	51.78N–.06	175.34W–.04	47	4.7s,4.2b			
NEIC	III	12 12 06 16.6	51.59N	175.26W	26	4.3L,4.2b			

ISC Event type fe.
IDC Error ellipse: s-maj=19.9km s-min=12.1km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=3.1km az=167.7.
NEIC Event type fe. Felt on Atka. After AEIC.

ISC	**III**	**18 09 54 10.7–.44**	**51.19N–.07**	**177.94W–.04**	**34**	**4.6b,4.1s**	**381**	**1-152**	
IDC	III	18 09 54 05.3–.65	51.23N	178.06W	0	4.5L,4.4			¶16339127
NEIC	III	18 09 54 09.0	51.07N	177.94W	24	4.5b,4.3L			
ISCJB	III	18 09 54 09.0–.19	51.10N–.03	177.95W–.03	34	4.5b,4.1s			
BJI	III	18 09 54 10.2	51.66N	178.15W	31	5.0b,4.8s			

ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=11.8km az=174.0.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.9km az=175.0.

ISC	**III**	**18 23 21 13.9–2.3**	**51.0N–.10**	**174.75W–.05**	**14–11**	**3.7b**	**23**	**1-63**	
IDC	III	18 23 21 06.1–7.7	49.99N	173.94W	0	3.6,3.6s			¶16479050
NEIC	III	18 23 21 19.5	51.34N	174.91W	6	2.8L,3.6s			

ISC Event type se.
IDC Error ellipse: s-maj=195.0km s-min=28.4km az=167.0.
NEIC Event type se. After AEIC.

ISC	**III**	**20 09 42 33.5–1.6**	**51.5N–.10**	**174.65W–.05**	**48–12**	**4.0b**	**59**	**1-153**	
IDC	III	20 09 42 26.6–.82	51.46N	174.72W	0	4.2L,4.0			¶16447655
NEIC	III	20 09 42 32.7	51.45N	174.71W	28	4.0b,3.7L			
ISCJB	III	20 09 42 32.6–.92	51.47N–.09	174.63W–.06	58–6	3.9b,3.7L			

ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.

ISC	**III**	**21 04 56 31.8–.73**	**51.43N–.09**	**173.99W–.05**	**35**	**4.0b**	**38**	**1-89**	
IDC	III	21 04 56 28.0–1.2	51.77N	173.99W	0	4.3L,4.0			¶16447663
ISCJB	III	21 04 56 29.9–.58	51.30N–.06	173.91W–.06	35	3.9b,4.0			
NEIC	III	21 04 56 30.2	51.32N	174.02W	21	4.3b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=36.3km s-min=15.6km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.1km az=2.5.
NEIC Event type se. After AEIC.

ISC	**III**	**21 17 43 21.3–2.5**	**51.3N–.10**	**174.67W–.05**	**15–13**	**4.0b**	**28**	**1-87**	
IDC	III	21 17 43 19.0–1.3	51.35N	174.61W	0	3.8,3.8L			¶16480028
NEIC	III	21 17 43 24.7	51.38N	174.68W	28	3.3L,3.8L			

ISC Event type se.
IDC Error ellipse: s-maj=36.1km s-min=20.1km az=173.0.
NEIC Event type se. After AEIC.

NEIC	**III**	**24 21 50 14.7**	**51.46N**	**177.42W**	**28**	**3.5L**			
									¶602442658

NEIC Event type se. After AEIC.

ISC	**III**	**25 02 00 49.1–1.6**	**51.58N–.10**	**174.06W–.08**	**10**	**3.4b**	**22**	**1-56**	
ISCJB	III	25 02 00 47.7–1.0	51.50N–.06	174.01W–.09	10	3.3b			¶16480755
NEIC	III	25 02 00 50.0	51.61N	174.05W	20	3.0L			
IDC	III	25 02 01 00.7–2.0	53.13N	173.50W	0	4.0L,3.6			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.1km az=138.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=46.6km s-min=35.2km az=166.0.

ISC	**III**	**25 14 59 45.5–1.3**	**51.1N–.10**	**179.52W–.09**	**43**	**4.1b**	**31**	**1-76**	
IDC	III	25 14 59 39.3–2.7	51.06N	179.49W	0	4.1,4.0			¶16480850
NEIC	III	25 14 59 44.4	50.99N	179.31W	20	3.7L,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=65.7km s-min=26.3km az=21.0.
NEIC Event type se. After AEIC.

ISC	**III**	**25 15 01 44.5–1.0**	**51.1N–.10**	**179.49W–.06**	**43**	**4.0b**	**37**	**1-69**	
IDC	III	25 15 01 39.7–1.7	51.34N	179.35W	0	4.1,3.9			¶16480853
ISCJB	III	25 15 01 42.0–.71	50.99N–.09	179.51W–.07	43	3.9b,3.9s			
NEIC	III	25 15 01 42.4	50.96N	179.39W	30	3.9L,3.9s			

ISC Event type se.
IDC Error ellipse: s-maj=47.2km s-min=17.8km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=5.5km az=168.6.
NEIC Event type se. After AEIC.

ISC	**III**	**25 15 08 49.7–.52**	**51.05N–.09**	**179.40W–.05**	**43**	**4.7b,4.5s**	**258**	**1-151**	
ISCJB	III	25 15 08 48.5–.29	51.09N–.05	179.39W–.04	43	4.6b,4.3s			¶16359891
NEIC	III	25 15 08 50.7–.59	51.11N	179.33W	50–4	4.6b,4.3s			
MOS	III	25 15 08 51.2–1.1	51.22N	179.21W	66	4.9b,4.3s			

BJI III 25 15 08 51.9 51.58N 179.85W 58 5.2b,5.0s
IDC III 25 15 08 53.2–4.3 51.11N 179.25W 77–37 4.5,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=2.8km az=168.9.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=3.9km az=182.0.
MOS Error ellipse: s-maj=11.4km s-min=10.8km az=91.4.
IDC Error ellipse: s-maj=18.5km s-min=12.5km az=166.0.
ISC III 25 18 00 08.8–.50 50.94N–.08 179.30W–.04 43 4.5b,3.6s 221 1-90
IDC III 25 18 00 02.5–.63 51.01N 179.28W 0 4.4,4.3b **¶16361357**
ISCJB III 25 18 00 07.5–.26 51.00N–.05 179.33W–.03 43 4.4b,3.5s
BJI III 25 18 00 10.6 51.54N 179.70W 53 5.0b,4.9s
NEIC III 25 18 00 10.1–.53 51.09N 179.30W 49–3 4.4L,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=11.4km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=2.7km az=168.1.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=3.3km az=180.0.
ISC III 30 22 33 59.1–1.4 51.6N–.20 176.14W–.04 51–10 3.8b 45 0-152
IDC III 30 22 33 52.1–.83 51.56N 176.25W 0 4.0,3.8 **¶16475871**
NEIC III 30 22 33 57.2 51.38N 176.06W 26 3.8L,3.8
ISCJB III 30 22 33 58.8–.71 51.7N–.10 176.14W–.06 64–4 3.8b,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC IV 02 03 50 24.6–.56 52.66N–.10 177.14W–.06 250 3.7b 68 1-151
ISCJB IV 02 03 50 24.1–.27 52.78N–.04 177.19W–.07 250 3.6b **¶16509613**
NEIC IV 02 03 50 24.6 52.23N 176.99W 269 4.1b
IDC IV 02 03 50 28.1–3.1 52.81N 177.11W 282–28 3.9,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.4km az=159.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=19.2km s-min=9.7km az=3.0.
NEIC IV 02 05 24 30.3 51.39N 172.78W 30 3.5L
¶16403922
NEIC Event type se. After AEIC.
ISC IV 02 05 25 10.1–.53 51.64N–.08 172.97W–.04 37 4.3b,4.0s 187 1-147
NEIC IV 02 05 25 08.3 51.39N 172.78W 28 4.2b,4.0L **¶602546012**
MOS IV 02 05 25 08.1–1.3 51.72N 173.09W 33 4.7b,4.0L
ISCJB IV 02 05 25 09.1–.30 51.74N–.05 173.04W–.04 37 4.4b,4.1s
IDC IV 02 05 25 11.7–4.3 51.66N 172.96W 55–38 4.2,4.1L
ISC Event type se.
NEIC Event type se. After AEIC.
MOS Error ellipse: s-maj=10.2km s-min=6.4km az=83.9.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.0km az=169.1.
IDC Error ellipse: s-maj=20.2km s-min=10.1km az=2.0.
ISC IV 06 16 51 56.0–.79 51.4N–.10 176.87W–.04 48 3.7b 44 0-116
IDC IV 06 16 51 49.9–1.4 51.62N 176.87W 0 3.8,3.7 **¶16553302**
ISCJB IV 06 16 51 53.9–.66 51.26N–.07 176.85W–.06 48 3.7b,3.7
NEIC IV 06 16 51 54.2 51.25N 176.81W 26 3.4L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=43.7km s-min=18.1km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=4.8km az=166.5.
NEIC Event type se. After AEIC.
ISC IV 09 08 21 55.9–2.2 51.5N–.10 178.75W–.05 9–12 3.9b 40 0-86
IDC IV 09 08 21 54.8–.87 51.57N 178.86W 0 4.0,3.9 **¶16447693**
ISCJB IV 09 08 21 56.1–1.2 51.6N–.10 178.87W–.06 19–6 3.8b,3.7s
NEIC IV 09 08 21 57.9 51.70N 178.61W 3 3.9L,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=14.0km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=6.1km az=2.6.
NEIC Event type se. After AEIC.
ISC IV 11 03 45 32.5–.62 51.6N–.10 177.04W–.07 48 4.1b 185 6-152
ISCJB IV 11 03 45 30.3–.35 51.55N–.07 177.01W–.07 48 4.2b,3.1s **¶16545146**
NEIC IV 11 03 45 30.9 51.43N 176.91W 27 4.2b,3.9L
IDC IV 11 03 45 32.4–2.7 51.62N 176.95W 43–22 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.2km az=171.2.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=26.7km s-min=15.3km az=164.0.
ISC IV 14 03 11 58.8–1.5 51.1N–.10 179.10W–.05 10 3.7b 31 1-47
ISCJB IV 14 03 11 59.1–1.0 50.99N–.08 179.12W–.09 10 3.6b **¶16505380**
IDC IV 14 03 12 00.5–19 51.28N 178.39W 0 4.0,3.6
NEIC IV 14 03 12 01.3 51.16N 178.95W 3 3.5L,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.7km az=164.5.
IDC Error ellipse: s-maj=364.8km s-min=82.4km az=77.0.
NEIC Event type se. After AEIC.
ISC IV 14 03 49 06.1–2.6 51.1N–.20 179.62W–.09 28–19 3.6b 28 1-47
NEIC IV 14 03 49 09.0 51.09N 179.17W 19 3.3L **¶16505382**
IDC IV 14 03 49 11.5–22 51.19N 177.54W 0 3.8,3.4
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=408.0km s-min=83.7km az=77.0.
ISC IV 14 09 32 18.8–.49 51.62N–.09 175.32W–.04 47 4.2b,3.4s 267 1-152
IDC IV 14 09 32 12.2–.55 51.66N 175.30W 0 4.8L,4.2 **¶16577803**
ISCJB IV 14 09 32 16.4–.21 51.48N–.04 175.20W–.03 47 4.1b,3.4s
NEIC IV 14 09 32 17.5 51.55N 175.26W 26 4.2L,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=10.7km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=2.8km az=177.9.
NEIC Event type se. After AEIC.
ISC IV 15 06 50 27.2–.47 50.54N–.04 175.10W–.03 27–2 5.4b,4.4s 1493 2-153
BJI IV 15 06 50 22.7 50.49N 175.31W 11 5.4b,5.2b **¶16437951**
IDC IV 15 06 50 23.0–.38 50.45N 175.19W 0 5.2,5.1
ISCJB IV 15 06 50 23.7–.68 50.49N–.02 175.03W–.02 15–4 5.3b,4.4s
MOS IV 15 06 50 26.4–1.1 50.57N 175.12W 30 5.6b,4.4s
GCMT IV 15 06 50 29.1–.20 50.51N 175.22W 12 5.1W,4.4s
NEIC IV 15 06 50 29.1 50.67N 175.20W 26 5.4b,4.8L
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=9.0km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=1.8km az=5.7.
MOS Error ellipse: s-maj=5.9km s-min=4.1km az=92.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c95; s118,c204; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.06±.10 $M_{\theta\theta}$6.23±.09; $M_{\phi\phi}$-0.17±.09; $M_{r\theta}$-0.43±.27; $M_{\theta\phi}$-0.40±.09; $M_{\phi r}$0.61±.33; Best double couple: NP1:ϕ_s99.00000°,δ47.00000°,λ-82.00000°. NP2:ϕ_s268.00000°,δ43.00000°,λ-98.00000°. Principal axes: T 6.2720,Plg2.0000°,Azm184.0000°; N -0.1400,Plg6.0000°,Azm274.0000°; P -6.1340,Plg84.0000°,Azm73.0000° M_o6.20300×10^{16}
NEIC Event type se. After AEIC.
NEIC IV 17 17 24 54.2 51.16N 179.22W 22 3.1L
IDC IV 17 17 24 57.1–22 51.41N 177.55W 0 3.6,3.2 **¶16591745**
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=404.3km s-min=87.5km az=77.0.
ISC IV 21 09 25 37.9–1.2 50.8N–.10 175.37W–.05 100 3.5b 25 1-87
ISCJB IV 21 09 25 37.8–.79 50.83N–.07 175.26W–.07 100 3.3b **¶16591756**
IDC IV 21 09 25 38.6–11 52.29N 175.85W 138–105 3.3,3.2L
NEIC IV 21 09 25 43.5 52.20N 175.78W 147 3.6,3.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.9km az=172.4.
IDC Error ellipse: s-maj=61.7km s-min=22.0km az=166.0.
NEIC Event type se. After AEIC.
NEIC IV 23 04 22 35.5 51.47N 175.64W 20 2.7L
¶602546185
NEIC Event type se. After AEIC.
ISC IV 23 09 20 34.2–.68 51.67N–.07 175.21W–.03 59–5 4.7b,3.6s 755 1-152
BJI IV 23 09 20 28.7 51.69N 175.12W 35 5.0b,4.9b **¶16476063**
MOS IV 23 09 20 30.1–1.1 51.73N 175.27W 33 4.7b,4.9b
NEIC IV 23 09 20 32.0 51.55N 175.19W 28 4.7b,4.6L
ISCJB IV 23 09 20 33.4–.34 51.74N–.04 175.26W–.02 67–2 4.6b,4.6L
IDC IV 23 09 20 34.5–2.5 51.85N 175.28W 59–22 5.0L,4.4
ISC Event type se.
MOS Error ellipse: s-maj=8.0km s-min=6.4km az=71.7.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.5km az=174.0.
IDC Error ellipse: s-maj=14.1km s-min=8.5km az=166.0.
IDC V 01 10 39 19.5–11 52.71N 173.87W 0 3.7,3.7L
¶17202514
IDC Error ellipse: s-maj=221.0km s-min=47.2km az=76.0.
ISC V 05 02 44 52.1–.25 52.78N–.03 174.77W–.02 205–1 5.3b 1791 1-162
BJI V 05 02 44 49.7 52.79N 174.82W 206 5.0b,4.8b **¶16495944**
MOS V 05 02 44 50.7–1.0 52.88N 174.77W 201 5.2b,4.1s
IDC V 05 02 44 51.8–.36 52.83N 174.79W 200–2 5.2,4.7
ISCJB V 05 02 44 51.5–.20 52.79N–.02 174.72W–.02 212–1 5.2b,4.7
GCMT V 05 02 44 53.1–.10 52.69N 174.72W 200–0 5.4W,4.7
NEIC V 05 02 44 53.1 52.54N 174.69W 206 5.4b,4.7
ISC Event type se.
MOS Error ellipse: s-maj=6.5km s-min=5.5km az=86.8.
IDC Error ellipse: s-maj=8.1km s-min=4.9km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=1.6km az=175.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s106,c184; s125,c235; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.51±.02 $M_{\theta\theta}$-0.68±.02; $M_{\phi\phi}$1.19±.02; $M_{r\theta}$0.78±.02; $M_{\theta\phi}$-0.16±.02; $M_{\phi r}$-0.84±.02; Best double couple: NP1:ϕ_s321.00000°,δ78.00000°,λ-125.00000°. NP2:ϕ_s214.00000°,δ37.00000°,λ-20.00000°. Principal axes: T 1.6290,Plg25.0000°,Azm77.0000°; N -0.1660,Plg34.0000°,Azm329.0000°; P -1.4660,Plg46.0000°,Azm195.0000° M_o1.54700×10^{17}
NEIC Event type se. After AEIC.
NEIC V 05 02 48 20.6 52.49N 174.66W 197 3.6
¶602607225
NEIC Event type se. After AEIC.
ISC V 05 03 10 07.5–.89 52.6N–.20 174.67W–.08 204–8 3.6b 33 0-88
IDC V 05 03 09 45.7–1.7 52.75N 176.31W 0 3.9,3.9b **¶16577998**
ISCJB V 05 03 10 06.8–.45 52.7N–.20 174.7W–.10 205–6 3.5b,3.9b
NEIC V 05 03 10 09.0 52.40N 174.65W 202 3.8b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=96.4km s-min=28.8km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=29.9km s-min=5.9km az=162.1.
NEIC Event type se. After AEIC.
ISC V 05 15 06 11.2–.60 51.49N–.06 178.36W–.03 62–4 5.3b 1076 0-160
MOS V 05 15 06 07.0–1.0 51.59N 178.34W 33 5.3b **¶16497746**
BJI V 05 15 06 09.6 51.43N 178.50W 68 5.9b,5.7s
ISCJB V 05 15 06 10.1–.32 51.49N–.03 178.27W–.02 69–2 5.2b,5.7s
NEIC V 05 15 06 11.1–.26 51.49N 178.38W 61–2 5.3L,5.3b
IDC V 05 15 06 11.2–1.7 51.57N 178.33W 60–14 5.0,4.9
ISC Event type se.
MOS Error ellipse: s-maj=6.9km s-min=5.5km az=80.1.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.0km az=176.8.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=1.8km az=174.0.
IDC Error ellipse: s-maj=11.7km s-min=7.9km az=158.0.
ISC V 07 22 44 41.8–.98 51.5N–.10 176.63W–.04 47 3.4b 28 0-83
IDC V 07 22 44 34.7–1.5 51.35N 176.70W 0 3.8,3.4 **¶17203010**
ISCJB V 07 22 44 40.2–.72 51.40N–.07 176.57W–.06 47 3.3b,3.4
NEIC V 07 22 44 40.4 51.40N 176.58W 24 3.5L,3.4
ISC Event type se.
IDC Error ellipse: s-maj=75.4km s-min=27.4km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.2km az=172.6.
NEIC Event type se. After AEIC.
NEIC V 15 09 02 55.9 51.25N 178.52W 23 3.8L
¶602607330
NEIC Event type se. After AEIC.
ISC V 22 02 22 24.1–.00 51.69N–.10 173.46W–.04 37 3.5b 23 1-55
ISCJB V 22 02 22 22.3–.75 51.56N–.08 173.36W–.06 37 3.6b **¶16601771**
IDC V 22 02 22 24.7–11 51.96N 172.22W 0 4.3L,3.9
NEIC V 22 02 22 24.9 51.75N 173.55W 50 3.2L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=5.0km az=177.3.
IDC Error ellipse: s-maj=217.7km s-min=60.3km az=84.0.
NEIC Event type se. After AEIC.
ISC V 22 02 28 52.7–1.3 51.0N–.10 179.79W–.04 10 3.6b 29 1-59
ISCJB V 22 02 28 52.7–1.2 50.93N–.10 179.82W–.08 10 3.6b **¶602607404**
NEIC V 22 02 28 53.7 51.04N 179.81W 5 3.5L
IDC V 22 02 29 12.7–2.7 52.01N 175.43W 0 3.7,3.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=4.4km az=22.5.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=67.8km s-min=41.4km az=4.0.
ISC V 22 19 29 24.5–.58 51.28N–.08 178.33W–.03 54–3 4.8b,4.1s 683 1-151
NEIC V 22 19 29 21.4 50.97N 178.36W 40 4.9L,4.8b **¶16533382**
GCMT V 22 19 29 21.4–.40 51.21N 178.12W 37–0 5.0W,4.8b
ISCJB V 22 19 29 23.9–.44 51.39N–.04 178.30W–.02 61–3 4.8b,4.8b
MOS V 22 19 29 23.0–.97 51.45N 178.30W 50 4.8b,4.1s
IDC V 22 19 29 24.6–1.9 51.43N 178.32W 52–16 4.7L,4.4
ISC Event type se.
NEIC Event type se. After AEIC.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c58; s81,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.57±.18 $M_{\theta\theta}$-3.29±.12; $M_{\phi\phi}$-0.28±.11; $M_{r\theta}$1.51±.12; $M_{\theta\phi}$-1.24±.07; $M_{\phi r}$1.73±.10; Best double couple: NP1:ϕ_s56.00000°,δ61.00000°,λ75.00000°. NP2:ϕ_s264.00000°,δ32.00000°,λ115.00000°. Principal axes: T 4.3640,Plg70.0000°,Azm293.0000°; N -0.0980,Plg13.0000°,Azm63.0000°; P -4.2680,Plg15.0000°,Azm156.0000° M_o4.31600×10^{16}
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=2.2km az=179.5.
MOS Error ellipse: s-maj=6.6km s-min=5.4km az=84.4.
IDC Error ellipse: s-maj=14.1km s-min=8.7km az=170.0.
ISC V 24 17 43 23.9–.19 52.54N–.03 173.24W–.02 142–1 5.6b 2468 1-161
BJI V 24 17 43 23.1 52.66N 173.49W 143 5.9b,5.4b **¶16538127**
ISCJB V 24 17 43 23.6–.18 52.57N–.02 173.19W–.01 149–1 5.5b,5.4b
MOS V 24 17 43 23.4–.89 52.60N 173.23W 145 5.6b,4.0s
GCMT V 24 17 43 24.1–.10 52.49N 173.18W 142–0 5.5W,4.0s
IDC V 24 17 43 24.2–.35 52.59N 173.25W 140–2 5.4,5.1
NEIC V 24 17 43 24.1–.08 52.60N 173.26W 138 5.6b,5.5W
NEIC V 24 17 43 25.0–.00 52.61N 173.22W 150 5.6b,5.5W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.4km az=176.3.
MOS Error ellipse: s-maj=5.8km s-min=4.0km az=88.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c194; s124,c277;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.02 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.68±.03; $M_{r\theta}$1.70±.02; $M_{\theta\phi}$0.13±.03; $M_{\phi r}$1.21±.02; Best double couple: NP1:ϕ_s233.00000°,δ90.00000°,λ-72.00000°. NP2:ϕ_s324.00000°,δ18.00000°,λ-180.00000°. Principal axes: T 2.1400,Plg42.0000°,Azm306.0000°; N 0.1030,Plg18.0000°,Azm53.0000°; P -2.2430,Plg42.0000°,Azm160.0000° M_o2.19200×10^{17}
IDC Error ellipse: s-maj=8.6km s-min=5.8km az=170.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.4km az=169.0. Felt at Atka. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11 $M_{\theta\theta}$-0.88 $M_{\phi\phi}$1.00 $M_{r\theta}$1.84 $M_{\theta\phi}$0.33 $M_{\phi r}$1.36 Best double couple: NP1:ϕ_s326.00000°,δ24.00000°,λ-176.00000°. NP2: ϕ_s233.00000°,δ89.00000°,λ-67.00000°. Principal axes: T 2.5000,Plg39.0000°,Azm302.0000°; N 0.0000,Plg23.0000°,Azm52.0000°; P -2.5000,Plg42.0000°,Azm165.0000° M_o2.50000×10^{17}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.20 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$0.30 $M_{r\theta}$1.80 $M_{\theta\phi}$0.20 $M_{\phi r}$1.10 Best double couple: NP1:ϕ_s58.00000°,δ88.00000°,λ78.00000°. NP2:ϕ_s319.00000°,δ12.00000°,λ171.00000°. Principal axes: T 2.2000,Plg45.0000°,Azm316.0000°; N 0.0000,Plg11.0000°,Azm58.0000°; P -2.1000,Plg41.0000°,Azm159.0000° M_o2.00000×10^{17}
ISC V 27 01 06 15.1–1.3 51.7N–.10 176.55W–.05 54–8 3.9b,3.2s 55 0-152
ISCJB V 27 01 06 14.8–.56 51.8N–.10 176.50W–.06 66–3 3.7b,3.2s **¶16628201**
NEIC V 27 01 06 14.4 51.53N 176.40W 37 4.1L,3.2s
IDC V 27 01 06 14.2–3.2 51.72N 176.54W 47–28 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.4km s-min=4.7km az=169.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=24.6km s-min=14.3km az=167.0.

ISC VI 06 05 35 09.1–.85 51.6N–.10 173.27W–.04 37 3.7b 27 1-88
IDC VI 06 05 35 03.6–1.3 51.63N 173.29W 0 4.6L,3.9 ¶16856467
ISCJB VI 06 05 35 07.3–.65 51.50N–.08 173.20W–.05 37 3.6b,3.0s
NEIC VI 06 05 35 07.3 51.50N 173.22W 26 3.4L,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=39.6km s-min=28.0km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=4.7km az=177.0.
NEIC Event type se. After AEIC.
NEIC VI 16 00 09 16.0 51.61N 176.59W 44 2.5L
¶602918645
NEIC Event type se. After AEIC.
ISC VI 17 12 46 57.9–.59 51.55N–.07 176.08W–.04 49–4 4.5b,4.0s 160 0-148
NEIC VI 17 12 46 55.1 51.37N 175.96W 22 4.5b,4.4L ¶16638466
ISCJB VI 17 12 46 57.0–.50 51.57N–.05 176.03W–.04 56–3 4.5b,4.0s
MOS VI 17 12 46 56.8–1.4 51.50N 175.86W 59 4.5b,4.0s
IDC VI 17 12 46 58.1–.61 51.54N 176.00W 55–6 4.2,4.0
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=3.7km az=163.2.
MOS Error ellipse: s-maj=10.4km s-min=8.1km az=84.4.
IDC Error ellipse: s-maj=18.0km s-min=11.8km az=166.0.
ISC VI 20 09 29 53.7–.83 51.04N–.09 178.05W–.05 34 4.0b 43 1-85
IDC VI 20 09 29 48.9–1.7 51.14N 178.14W 0 3.9,3.8b ¶16731026
ISCJB VI 20 09 29 51.0–.60 50.85N–.06 178.18W–.06 34 3.8b,3.5s
NEIC VI 20 09 29 52.6 50.99N 178.04W 17 3.9b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=46.7km s-min=18.1km az=2.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.6km az=164.1.
NEIC Event type se. After AEIC.
ISC VI 21 06 20 36.1–.64 51.4N–.10 177.06W–.04 48 4.0b 55 0-152
IDC VI 21 06 20 29.2–.76 51.46N 177.12W 0 4.1,3.9 ¶16731114
NEIC VI 21 06 20 31.0 51.21N 176.86W 1 4.1L,3.8b
ISCJB VI 21 06 20 34.5–.60 51.31N–.07 176.99W–.05 48 4.0b,3.8b
ISC Event type fe.
NEIC Event type fe. Felt on Adak. After AEIC.
ISCJB Event type fe.
ISC VI 27 09 28 54.3–.73 51.9N–.10 172.29W–.04 32 3.9b 41 1-89
IDC VI 27 09 28 50.2–.94 51.93N 172.24W 0 4.1,3.9b ¶16731599
ISCJB VI 27 09 28 52.7–.60 51.9N–.10 172.31W–.05 32 3.9b,3.0s
NEIC VI 27 09 28 52.5 51.75N 172.30W 45 3.9L,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=33.1km s-min=16.2km az=166.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=3.6km az=170.8.
NEIC Event type fe. Felt on Adak. After AEIC.
ISC VI 28 20 26 52.0–.67 51.30N–.09 178.57W–.05 45 3.8b,3.3s 63 1-86
IDC VI 28 20 26 45.4–.98 51.41N 178.56W 0 4.0,3.8b ¶16731727
ISCJB VI 28 20 26 50.4–.47 51.27N–.07 178.67W–.06 45 3.8b,3.2s
NEIC VI 28 20 26 52.4 51.28N 178.46W 24 3.4L,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=18.3km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=4.4km az=158.4.
NEIC Event type se. After AEIC.

(9) Fox Islands.

ISC I 02 13 59 20.6–.87 52.87N–.07 166.70W–.04 23 3.5b 31 1-76
IDC I 02 13 59 17.5–1.7 53.00N 166.79W 0 3.8,3.7 ¶15964330
ISCJB I 02 13 59 18.6–.65 52.73N–.05 166.65W–.06 23 3.8s,3.5b
NEIC I 02 13 59 19.8 52.76N 166.70W 32 3.2L,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=45.8km s-min=21.7km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.2km az=0.1.
NEIC Event type se. After AEIC.
ISC I 02 20 26 23.8–1.1 52.87N–.10 166.79W–.06 37 3.4b 31 1-78
IDC I 02 20 26 17.3–3.5 52.67N 166.81W 0 3.6,3.5 ¶16026438
ISCJB I 02 20 26 21.5–.74 52.76N–.06 166.67W–.07 37 3.4b,3.5
NEIC I 02 20 26 21.6 52.79N 166.75W 38 3.4L,3.5
ISC Event type se.
IDC Error ellipse: s-maj=100.9km s-min=24.1km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=4.7km az=157.3.
NEIC Event type se. After AEIC.
ISC I 03 10 25 57.5–1.8 53.5N–.10 165.61W–.06 41–19 3.0b 33 1-65
IDC I 03 10 25 52.0–1.7 53.55N 165.67W 0 3.6,3.4s ¶16021237
ISCJB I 03 10 25 57.1–.81 53.51N–.10 165.7W–.10 58–10 3.2s,3.1b
NEIC I 03 10 25 57.2 53.49N 165.63W 40 3.4L,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=33.5km s-min=26.5km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=17.8km s-min=6.6km az=151.3.
NEIC Event type se. After AEIC.
ISC I 06 00 14 06.5–1.5 52.71N–.10 169.51W–.05 25–10 4.1b,4.0s 61 0-154
IDC I 06 00 14 02.8–.59 52.69N 169.71W 0 4.2,4.0 ¶16031118
NEIC I 06 00 14 05.9 52.87N 169.63W 10 4.0L,4.0
ISCJB I 06 00 14 06.1–.88 52.73N–.08 169.61W–.07 31–6 4.0b,3.9s
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC I 08 12 51 04.4–1.0 54.4N–.20 167.1W–.10 136–11 34 0-51
ISCJB I 08 12 51 03.4–.60 54.4N–.20 167.1W–.20 141–9 2.9b ¶16022590
NEIC I 08 12 51 05.0 54.08N 166.81W 138 3.1
IDC I 08 12 51 10.4–10 54.54N 166.01W 144–67 3.3,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=31.9km s-min=6.7km az=148.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=82.4km s-min=50.0km az=62.0.
ISC I 13 05 36 00.8–1.1 52.8N–.10 169.52W–.07 10 3.6b 19 0-53
ISCJB I 13 05 35 59.8–.79 52.7N–.10 169.5W–.10 10 3.6b ¶601989287
NEIC I 13 05 36 01.6 52.75N 169.49W 12 3.3L
IDC I 13 05 36 13.8–3.2 53.64N 166.48W 0 3.9,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=5.1km az=152.0.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=75.7km s-min=34.1km az=33.0.
ISC I 15 04 04 13.6–4.1 52.37N–.06 167.20W–.05 14–26 4.2b,3.5s 102 1-88
IDC I 15 04 04 11.7–.81 52.47N 167.32W 0 4.2,4.1 ¶15931046
ISCJB I 15 04 04 13.6–1.1 52.30N–.03 167.22W–.04 29–8 4.2b,3.5s
NEIC I 15 04 04 14.0 52.28N 167.13W 26 4.3b,4.0L
BJI I 15 04 04 14.1 52.21N 167.09W 39 4.7b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=12.3km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=150.7.
NEIC Event type se. After AEIC.
ISC I 15 09 35 07.7–1.1 52.8N–.10 168.96W–.08 57–8 3.5b 30 0-52
IDC I 15 09 35 03.0–6.1 52.87N 168.30W 0 3.7,3.7L ¶16032771
ISCJB I 15 09 35 07.1–.84 52.8N–.10 169.0W–.10 70–6 3.3b,3.7L
NEIC I 15 09 35 07.6 52.66N 168.80W 42 3.5L,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=110.2km s-min=42.8km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=24.3km s-min=7.6km az=156.1.
NEIC Event type se. After AEIC.
ISC I 17 07 20 03.8–2.0 52.7N–.10 169.36W–.07 2–12 3.3b 32 0-57
IDC I 17 07 19 54.4–2.2 52.28N 171.02W 0 3.7,3.6L ¶16151646
NEIC I 17 07 20 04.2 52.76N 169.37W 2 3.5L,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=53.3km s-min=29.1km az=14.0.
NEIC Event type se. After AEIC.
ISC I 18 06 41 45.9–2.4 52.8N–.20 169.7W–.10 5–13 4.0s,3.5b 20 1-91
IDC I 18 06 41 44.2–5.5 53.02N 169.99W 0 4.0,3.9 ¶16151734
ISCJB I 18 06 41 47.5–1.7 52.7N–.20 169.6W–.30 22–9 4.1s,3.6b
NEIC I 18 06 41 48.9 52.65N 169.25W 5 3.2L,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=433.4km s-min=34.8km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=46.8km s-min=11.1km az=141.1.
NEIC Event type se. After AEIC.
ISC I 21 04 07 56.6–.61 52.74N–.05 166.96W–.04 26–3 4.7b,4.0s 312 1-146
IDC I 21 04 07 52.6–.69 52.79N 167.06W 0 4.4,4.4 ¶15948005
NEIC I 21 04 07 55.1 52.64N 166.98W 10 4.8b,4.4
ISCJB I 21 04 07 56.9–.47 52.69N–.04 167.02W–.04 40–3 4.6b,3.9s
MOS I 21 04 07 56.2–1.1 52.74N 167.02W 33 5.0b,3.9s
BJI I 21 04 07 56.1 53.23N 167.19W 24 5.1b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=11.5km az=0.0.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.2km az=164.3.
MOS Error ellipse: s-maj=11.4km s-min=5.5km az=92.6.
ISC II 01 10 10 10.6–1.5 52.2N–.20 171.19W–.06 56–11 3.7b 41 2-89
IDC II 01 10 10 02.8–.98 52.09N 171.36W 0 3.9,3.8b ¶16328615
NEIC II 01 10 10 07.7 51.91N 171.05W 28 3.3L,3.8b
ISCJB II 01 10 10 09.3–.82 52.1N–.10 171.17W–.07 63–5 3.8b,3.8b
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC II 01 14 25 31.3–1.1 52.41N–.08 169.58W–.04 52–9 4.4b 328 1-150
IDC II 01 14 25 24.4–.57 52.44N 169.69W 0 4.4,4.3 ¶15995161
MOS II 01 14 25 28.9–.90 52.53N 169.66W 42 4.7b,4.3
BJI II 01 14 25 28.9 52.40N 169.60W 55 5.2b,5.0s
ISCJB II 01 14 25 29.7–.52 52.37N–.05 169.59W–.03 56–4 4.3b,4.2s
NEIC II 01 14 25 31.3–.54 52.43N 169.61W 50–4 4.4b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=10.6km az=172.0.
MOS Error ellipse: s-maj=11.3km s-min=7.8km az=88.4.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=3.0km az=177.3.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=3.6km az=167.0.
ISC II 03 15 22 19.7–1.4 53.03N–.09 166.55W–.06 10 4.3s,3.8b 29 1-92
IDC II 03 15 22 14.6–5.7 53.16N 165.78W 0 4.3s,4.3 ¶16328671
ISCJB II 03 15 22 20.1–.93 53.04N–.06 166.59W–.07 10 4.4s,3.6b
NEIC II 03 15 22 21.9 53.11N 166.59W 16 3.3L,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=132.8km s-min=74.2km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.0km az=154.6.
NEIC Event type se. After AEIC.
NEIC II 04 12 24 36.5 52.64N 169.67W 2 3.7L
¶602064404
NEIC Event type se. After AEIC.
ISC II 06 06 50 37.1–1.2 53.22N–.09 166.80W–.05 47–9 4.0b,3.1s 69 1-92
BJI II 06 06 50 27.6 52.90N 166.50W 7 4.9b,4.7s ¶16007692
NEIC II 06 06 50 34.5 53.12N 166.66W 17 4.4b,3.8L
ISCJB II 06 06 50 35.9–.63 53.20N–.07 166.79W–.06 56–4 4.0b,3.4s
IDC II 06 06 50 35.6–7.0 53.39N 166.88W 31–50 3.9,3.9
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=3.9km az=155.6.
IDC Error ellipse: s-maj=29.8km s-min=14.1km az=4.0.
ISC II 09 00 52 28.9–.36 52.85N–.06 170.97W–.03 115–2 4.6b 833 1-153
BJI II 09 00 52 21.8 52.43N 170.50W 112 5.1b,4.7b ¶16013113
MOS II 09 00 52 25.9–.90 53.00N 171.22W 93 4.6b,4.7b
ISCJB II 09 00 52 28.6–.21 52.95N–.03 171.01W–.02 124–1 4.7b,4.7b
NEIC II 09 00 52 29.1–.14 53.01N 171.05W 106 4.7b,4.7b
IDC II 09 00 52 29.1–.61 52.95N 171.03W 112–5 4.6,4.4
ISC Event type se.
MOS Error ellipse: s-maj=8.7km s-min=5.2km az=84.8.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=1.9km az=170.7.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=2.0km az=166.0.
IDC Error ellipse: s-maj=13.0km s-min=7.8km az=179.0.
ISC II 09 19 34 30.5–1.6 52.5N–.10 167.90W–.05 42–11 4.4b,3.6s 108 1-91
NEIC II 09 19 34 27.7 52.38N 167.73W 28 4.0b,3.5L ¶16017968
IDC II 09 19 34 27.4–4.4 52.61N 167.98W 16–26 4.3,4.2
ISCJB II 09 19 34 28.8–.99 52.47N–.07 167.88W–.07 43–6 4.3b,3.6s
MOS II 09 19 34 28.4–1.3 52.60N 167.86W 38 4.7b,3.6s
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=20.1km s-min=12.1km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=6.4km az=168.7.
MOS Error ellipse: s-maj=15.9km s-min=6.9km az=92.8.
ISC II 15 09 18 28.2–.66 52.76N–.06 169.43W–.03 33–4 4.8b,3.9s 837 0-154
IDC II 15 09 18 24.2–2.8 52.68N 169.51W 9–16 4.4,4.3 ¶16025703
GCMT II 15 09 18 25.1–.30 52.59N 169.31W 17–0 5.0W,4.3
NEIC II 15 09 18 25.1 52.58N 169.31W 15 4.9b,4.6L
ISCJB II 15 09 18 27.8–.35 52.81N–.03 169.47W–.03 45–2 4.8b,3.9s
BJI II 15 09 18 29.3 52.78N 169.59W 58 5.1b,4.8s
MOS II 15 09 18 31.2–1.1 52.90N 169.40W 70 5.1b,4.8s
ISC Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=11.4km az=178.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c48; s86,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.67±.20 $M_{\theta\theta}$1.90±.14; $M_{\phi\phi}$1.77±.12; $M_{r\theta}$0.34±.36; $M_{\theta\phi}$-1.44±.08; $M_{\phi r}$0.34±.33; Best double couple: NP1:ϕ_s307.00000°,δ46.00000°,λ-99.00000°. NP2:ϕ_s140.00000°,δ45.00000°,λ-81.00000°. Principal axes: T 3.2770,Plg0.0000°,Azm44.0000°; N 0.4500,Plg7.0000°,Azm314.0000°; P -3.7260,Plg83.0000°,Azm135.0000° $M_0$3.50100×10^{16}
NEIC Event type fe. Felt at Nikolski. After AEIC.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.5km az=175.6.
MOS Error ellipse: s-maj=8.5km s-min=6.1km az=70.0.
ISC II 15 09 29 36.6–1.9 52.9N–.10 169.57W–.07 19–6 3.6b 27 0-91
IDC II 15 09 29 33.8–1.1 52.63N 169.48W 0 4.0,3.7 ¶16398253
ISCJB II 15 09 29 36.8–1.1 52.8N–.10 169.5W–.10 31–6 3.6b,3.7
NEIC II 15 09 29 37.9 52.60N 169.02W 15 3.4L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=34.8km s-min=20.2km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=24.3km s-min=7.6km az=150.1.
NEIC Event type se. After AEIC.
ISC II 15 10 53 55.2–1.5 52.7N–.20 169.3W–.10 29–10 3.4b 26 0-91
IDC II 15 10 53 51.0–1.2 52.21N 169.21W 0 3.9,3.9s ¶16398262
ISCJB II 15 10 53 53.6–1.4 52.6N–.10 169.2W–.10 27–9 3.9s,3.5b
NEIC II 15 10 53 54.5 52.68N 169.27W 15 3.2L,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=57.9km s-min=23.9km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=25.2km s-min=6.0km az=147.6.
NEIC Event type se. After AEIC.
ISC II 15 10 56 23.5–2.2 52.6N–.10 169.16W–.09 11–13 3.5b 19 0-91
ISCJB II 15 10 56 22.2–1.7 52.5N–.10 169.1W–.10 18–12 3.5b ¶16398263
NEIC II 15 10 56 24.0 52.61N 169.15W 13 3.1L
IDC II 15 10 56 24.6–4.4 50.00N 168.53W 0 3.9,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.9km s-min=6.8km az=147.5.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=370.0km s-min=35.7km az=160.0.
ISC II 16 04 28 11.7–2.5 52.1N–.10 169.41W–.09 41–19 4.2b 50 1-90
IDC II 16 04 28 05.8–.84 52.14N 169.35W 0 4.2,4.1 ¶16168863
ISCJB II 16 04 28 10.4–1.3 52.08N–.10 169.4W–.10 46–9 4.1b,3.5s
NEIC II 16 04 28 11.0 52.10N 169.03W 10 3.5L,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=14.5km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=9.5km az=158.4.
NEIC Event type se. After AEIC.
NEIC II 22 03 57 20.8 53.75N 165.25W 46 2.8L
¶602064539
NEIC Event type se. After AEIC.
ISC III 13 08 36 06.8–1.0 52.0N–.20 170.45W–.06 31 4.3b 48 1-76
IDC III 13 08 36 02.6–1.4 52.14N 170.46W 0 4.2,4.1b ¶16452054
NEIC III 13 08 36 04.8 51.76N 170.34W 28 3.5L,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=38.6km s-min=17.1km az=3.0.
NEIC Event type se. After AEIC.

ISC III 14 12 26 09.0–.98 52.0N–.10 170.47W–.05 31 4.0b 51 1-76
IDC III 14 12 26 05.0–1.4 52.14N 170.51W 0 4.0,3.9 **¶16477679**
NEIC III 14 12 26 06.7 51.75N 170.34W 27 3.7b,3.4L
ISC Event type se.
IDC Error ellipse: s-maj=38.2km s-min=15.6km az=1.0.
NEIC Event type se. After AEIC.
ISC III 14 12 52 14.2–1.3 51.8N–.20 170.43W–.07 31 3.9b 37 2-76
IDC III 14 12 52 09.3–1.9 51.76N 170.58W 0 3.9,3.8b **¶16477680**
ISCJB III 14 12 52 12.1–.97 51.7N–.10 170.39W–.07 31 3.7b,3.8b
NEIC III 14 12 52 14.4 51.76N 170.38W 35 3.4L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=54.3km s-min=19.8km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=20.3km s-min=3.7km az=164.0.
NEIC Event type se. After AEIC.
ISC III 16 11 23 44.3–1.2 53.6N–.10 165.77W–.06 59–9 3.9b 48 0-86
NEIC III 16 11 23 42.0 53.43N 165.61W 13 3.7L **¶16453155**
IDC III 16 11 23 42.8–5.6 53.74N 165.80W 41–47 3.8,3.8
ISCJB III 16 11 23 43.4–.60 53.58N–.08 165.74W–.08 68–5 3.7b,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC III 17 12 28 58.2–1.6 53.67N–.08 165.14W–.04 16–11 37 1-55
ISCJB III 17 12 28 57.4–1.3 53.53N–.07 165.01W–.07 23–9 4.1s,3.2b **¶16478895**
NEIC III 17 12 28 58.5 53.58N 165.06W 26 3.6L,3.2b
IDC III 17 12 28 60.0–4.8 53.65N 164.28W 0 4.1s,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=4.7km az=153.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=79.4km s-min=37.1km az=94.0.
ISC III 19 15 59 53.4–.84 51.8N–.10 169.70W–.06 29 3.8b 35 1-93
IDC III 19 15 59 49.0–.99 51.89N 169.86W 0 4.0,3.8b **¶16479502**
ISCJB III 19 15 59 50.7–.69 51.66N–.08 169.62W–.07 29 3.8b,3.8b
NEIC III 19 15 59 54.9 51.93N 169.72W 35 3.4L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=16.5km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=4.6km az=155.5.
NEIC Event type se. After AEIC.
ISC III 24 14 31 41.2–1.3 52.0N–.20 170.73W–.07 35 3.9b 27 2-90
IDC III 24 14 31 34.9–1.7 52.05N 170.53W 0 3.7,3.7b **¶16480645**
NEIC III 24 14 31 40.3 51.88N 170.68W 26 3.4L,3.7b
ISCJB III 24 14 31 40.1–.87 51.9N–.10 170.67W–.09 35 4.0b,3.7b
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
NEIC III 28 02 00 17.0 53.03N 167.00W 26 3.5L
¶602442795
NEIC Event type se. After AEIC.
ISC III 28 05 59 15.9–1.2 52.6N–.10 170.64W–.06 65–11 3.9b 61 1-90
IDC III 28 05 59 06.3–1.2 52.40N 170.95W 0 4.1L,4.0 **¶16475469**
NEIC III 28 05 59 11.9 52.14N 170.40W 29 4.0b,3.8L
ISCJB III 28 05 59 13.8–.60 52.4N–.10 170.54W–.07 68–5 3.8b,3.8L
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC III 30 04 00 25.3–.89 52.1N–.10 169.96W–.08 29 3.8b 27 1-90
IDC III 30 04 00 21.0–1.1 52.01N 169.83W 0 3.9,3.7 **¶16447684**
ISCJB III 30 04 00 23.3–.73 51.89N–.09 169.9W–.10 29 3.7b,3.2s
NEIC III 30 04 00 24.2 51.85N 169.54W 18 3.3L,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=15.5km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=6.2km az=146.8.
NEIC Event type se. After AEIC.
ISC IV 10 12 05 02.8–1.5 52.87N–.09 166.81W–.05 47–12 3.7b,3.3s 55 1-146
IDC IV 10 12 04 57.3–.77 53.12N 166.73W 0 4.0,3.8 **¶16447698**
NEIC IV 10 12 04 58.7 52.84N 166.77W 2 3.6L,3.8
ISCJB IV 10 12 05 00.6–.83 52.75N–.06 166.74W–.07 47–6 3.8b,3.3s
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC IV 10 12 38 23.8–1.5 52.89N–.09 166.84W–.05 45–13 3.5b 51 1-86
IDC IV 10 12 38 17.8–1.0 52.97N 166.82W 0 3.7,3.6 **¶16447699**
ISCJB IV 10 12 38 22.0–.81 52.80N–.07 166.79W–.06 48–6 3.5b,3.6
NEIC IV 10 12 38 21.7 52.85N 166.80W 15 3.4L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=27.7km s-min=14.7km az=0.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.0km az=159.5.
NEIC Event type se. After AEIC.
ISC IV 15 23 20 13.1–1.0 51.3N–.10 169.43W–.06 35 3.4b 24 2-80
IDC IV 15 23 20 08.0–2.2 51.11N 169.21W 0 3.8,3.5 **¶16532028**
ISCJB IV 15 23 20 11.0–.79 51.27N–.07 169.45W–.07 33 3.4s,3.4b
NEIC IV 15 23 20 11.8 51.35N 169.50W 10 3.1L,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=53.4km s-min=28.4km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=4.8km az=157.9.
NEIC Event type se. After AEIC.
ISC IV 17 05 14 59.7–.54 51.92N–.08 171.32W–.03 44–4 4.4b,3.6s 275 2-150
IDC IV 17 05 14 53.7–.56 52.07N 171.43W 0 4.3,4.3 **¶16442674**
BJI IV 17 05 14 56.5 52.40N 171.79W 15 4.9b,4.8b
MOS IV 17 05 14 58.7–.95 52.06N 171.48W 46 4.7b,4.8b
ISCJB IV 17 05 14 59.1–.43 52.02N–.05 171.43W–.03 48–3 4.3b,3.7s
NEIC IV 17 05 14 59.6 51.88N 171.34W 38 4.4L,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=10.1km az=173.0.
MOS Error ellipse: s-maj=9.6km s-min=6.8km az=83.3.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=2.9km az=167.7.
NEIC Event type se. After AEIC.
ISC IV 19 08 32 39.2–.73 53.4N–.10 171.25W–.07 250 3.3b 46 2-90
ISCJB IV 19 08 32 38.2–.33 53.4N–.10 171.25W–.08 250 3.4b **¶16497335**
NEIC IV 19 08 32 39.3 53.14N 171.10W 253 3.5
IDC IV 19 08 32 41.2–9.3 53.59N 171.47W 262–93 3.8,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=4.0km az=161.2.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=43.5km s-min=16.7km az=173.0.
ISC IV 28 13 24 34.9–.68 53.8N–.10 165.06W–.05 35 4.2b 40 1-93
ISCJB IV 28 13 24 33.7–.47 53.81N–.07 164.94W–.06 35 4.1b,4.0s **¶16483647**
IDC IV 28 13 24 34.3–4.9 53.91N 165.40W 28–30 4.0,3.9
NEIC IV 28 13 24 35.8–.94 53.84N 165.05W 41–9 4.3b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=4.7km az=171.2.
IDC Error ellipse: s-maj=28.0km s-min=24.0km az=31.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=7.9km az=161.0.
ISC V 15 15 43 00.6–1.6 52.0N–.20 169.7W–.10 33 3.5b 16 1-90
IDC V 15 15 42 50.8–1.8 52.62N 168.19W 0 3.5,3.5b **¶16580984**
ISCJB V 15 15 42 59.0–1.3 51.9N–.10 169.9W–.20 33 3.4b,3.5b
NEIC V 15 15 43 00.5 51.94N 169.33W 5 2.9L,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=44.3km s-min=23.4km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=25.2km s-min=7.8km az=141.7.
NEIC Event type se. After AEIC.
ISC V 16 06 34 07.7–.95 52.5N–.20 170.10W–.08 44 3.4b 31 1-90
IDC V 16 06 34 00.4–1.5 52.59N 170.41W 0 3.8,3.5 **¶16709991**
NEIC V 16 06 34 07.3 52.42N 170.02W 28 3.6L,3.5
ISC Event type se.
IDC Error ellipse: s-maj=41.8km s-min=30.8km az=142.0.
NEIC Event type se. After AEIC.
ISC V 17 06 06 00.2–1.1 52.3N–.10 169.64W–.08 10 3.4b 24 1-53
IDC V 17 06 05 49.2–10 52.17N 171.54W 0 3.7,3.4 **¶16710065**
ISCJB V 17 06 05 59.7–.80 52.19N–.09 169.6W–.10 10 3.3b,3.4
NEIC V 17 06 06 00.8 52.27N 169.66W 7 3.3L,3.4
ISC Event type se.
IDC Error ellipse: s-maj=188.2km s-min=51.9km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=6.7km az=142.4.
NEIC Event type se. After AEIC.
ISC V 20 08 40 03.7–.91 51.6N–.10 169.76W–.07 35 3.9b 36 2-90
IDC V 20 08 39 58.1–1.1 51.47N 169.75W 0 4.1,4.1L **¶16577310**
ISCJB V 20 08 40 01.5–.67 51.46N–.07 169.71W–.09 33 4.1s,3.9b
NEIC V 20 08 40 03.4 51.56N 169.76W 15 3.4L,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=30.2km s-min=20.6km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=4.7km az=147.1.
NEIC Event type se. After AEIC.
ISC V 25 20 53 52.9–.74 52.4N–.10 170.55W–.06 55 4.0b,3.2s 63 1-90
NEIC V 25 20 53 50.9 52.22N 170.41W 25 4.2L,4.1b **¶16710926**
ISCJB V 25 20 53 51.5–.46 52.28N–.09 170.52W–.07 55 4.0b,3.2s
IDC V 25 20 53 56.8–5.7 52.48N 170.61W 92–51 3.8,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=3.0km az=158.7.
IDC Error ellipse: s-maj=23.6km s-min=13.8km az=173.0.
ISC V 28 03 07 10.0–1.7 52.9N–.10 169.56W–.07 14–11 3.1b 28 0-53
IDC V 28 03 07 01.3–17 52.52N 170.76W 0 3.5,3.2 **¶16631878**
NEIC V 28 03 07 09.6 52.66N 169.42W 11 3.2L,3.2
ISC Event type se.
IDC Error ellipse: s-maj=332.9km s-min=50.2km az=86.0.
NEIC Event type se. After AEIC.
ISC V 29 13 49 23.9–.76 52.2N–.10 169.94W–.06 29 4.0b 54 1-90
NEIC V 29 13 49 21.9 52.10N 169.88W 6 3.6L **¶16637515**
ISCJB V 29 13 49 22.0–.57 52.00N–.08 169.89W–.07 29 3.9b,3.5s
IDC V 29 13 49 26.5–4.4 52.24N 170.01W 51–40 3.9,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=3.4km az=155.0.
IDC Error ellipse: s-maj=25.1km s-min=12.5km az=2.0.
ISC VI 01 13 43 56.4–1.5 52.1N–.20 169.89W–.09 29 23 1-90
IDC VI 01 13 43 49.6–3.5 52.29N 169.41W 0 3.7,3.6 **¶16637527**
ISCJB VI 01 13 43 54.4–1.1 52.0N–.10 169.8W–.10 29 3.5b,3.6
NEIC VI 01 13 43 55.2 52.23N 170.00W 10 3.1L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=96.0km s-min=56.8km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=4.3km az=154.5.
NEIC Event type se. After AEIC.
ISC VI 01 16 27 43.5–.66 52.3N–.10 170.03W–.05 29 4.0b 64 1-150
NEIC VI 01 16 27 44.7–.47 52.23N 170.00W 38 4.2b,3.8L **¶16637531**
IDC VI 01 16 27 44.2–.73 52.20N 170.10W 36–5 3.9,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=3.8km az=161.0.
IDC Error ellipse: s-maj=18.5km s-min=12.0km az=180.0.
ISC VI 02 14 51 05.9–.81 52.1N–.10 169.92W–.06 29 3.6b 31 1-90
IDC VI 02 14 51 01.1–.87 52.04N 170.12W 0 3.9,3.7 **¶16856115**
ISCJB VI 02 14 51 03.7–.65 51.95N–.08 169.85W–.07 29 3.6b,3.7
NEIC VI 02 14 51 03.3 51.88N 169.76W 26 3.5L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=34.2km s-min=14.9km az=2.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=4.0km az=156.9.
NEIC Event type se. After AEIC.
IDC VI 15 20 42 08.7–1.8 52.65N 169.68W 0 3.7,3.5b
¶17206200
IDC Error ellipse: s-maj=65.8km s-min=31.5km az=135.0.
ISC VI 19 22 32 46.5–.46 53.76N–.06 167.03W–.04 112–3 4.5b 467 0-153
ISCJB VI 19 22 32 45.6–.22 53.83N–.03 167.09W–.03 116–1 4.5b **¶16633289**
MOS VI 19 22 32 45.3–1.1 53.91N 167.20W 109 4.4b
NEIC VI 19 22 32 46.8–.26 53.91N 167.18W 109–2 4.8b
IDC VI 19 22 32 48.1–.84 54.02N 167.19W 120–5 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.9km az=163.9.
MOS Error ellipse: s-maj=11.8km s-min=6.4km az=77.9.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.2km az=157.0.
IDC Error ellipse: s-maj=16.7km s-min=9.6km az=168.0.
ISC VI 24 03 09 38.9–.24 51.98N–.03 171.82W–.02 50–1 7.0s,6.9b 3051 1-161
IDC VI 24 03 09 37.1–1.4 52.02N 171.76W 32–9 6.9,6.9s **¶602897721**
BJI VI 24 03 09 37.8 51.85N 171.90W 60 7.3s,7.1b
MOS VI 24 03 09 37.8–.88 52.10N 171.78W 52 7.1b,7.0s
ISCJB VI 24 03 09 38.4–.25 52.00N–.01 171.71W–.01 58–2 7.0s,6.9b
GCMT VI 24 03 09 39.5–.10 52.09N 171.77W 74–0 7.3W,6.9b
NEIC VI 24 03 09 39.5–.08 52.05N 171.84W 52 7.4,7.3W
NEIC VI 24 03 09 39.0–.00 51.81N 171.67W 70 7.4,7.3W
ISC Event type fe.
IDC Error ellipse: s-maj=12.2km s-min=8.1km az=177.0.
MOS Error ellipse: s-maj=5.6km s-min=4.4km az=88.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ84.00000°,λ90.00000°. NP2: ϕ_s270.00000°,δ6.00000°,λ90.00000°. Principal axes: T Plg51.0000°,Azm0.0000° ; N Plg0.0000°,Azm270.0000°; P Plg39.0000°,Azm180.0000° $M_0$1.60000×10^{20}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.3km az=179.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s147,c411; s146,c741;Duration: 10^s3 Moment tensor: Scale 10^{19} Nm; M_{rr}-0.27±.03 $M_{\theta\theta}$1.71±.02; $M_{\phi\phi}$-1.44±.02; $M_{r\theta}$9.22±.10; $M_{\theta\phi}$1.84±.01; $M_{\phi r}$1.11±.03; Best double couple: NP1:ϕ_s265.00000°,δ87.00000°,λ-81.00000°. NP2:ϕ_s15.00000° ,δ10.00000°,λ-160.00000°. Principal axes: T 10.3700,Plg41.0000°,Azm347.0000° ; N -1.7940,Plg9.0000°,Azm85.0000°; P -8.5770,Plg48.0000°,Azm185.0000° $M_0$9.47400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.5km az=171.0. Felt [VI] at Nikolski and [II] at Dutch Harbor. Also felt at Adak, Anchorage, Cold Bay, Elmendorf AFB, Homer and Unalaska. Tsunami generated with wave heights [peak-to-trough] recorded at the following selected tide stations: 10 cm at Nikolski, 9 cm at Saint Paul, 6 cm on Adak and 4 cm on Akutan; 4 cm on Midway Island; 6 cm at Hilo and 4 cm at Nawiliwili, Hawaii. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.80000×10^{20} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s85.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm355.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm175.0000°
NEIC Event type se. Moment Tensor Solution. s132 Moment tensor: Scale 10^{19}Nm; M_{rr}0.70 $M_{\theta\theta}$0.95 $M_{\phi\phi}$-1.64 $M_{r\theta}$9.05 $M_{\theta\phi}$1.65 $M_{\phi r}$2.01 Best double couple: NP1:ϕ_s260.00000° ,δ89.00000°,λ-83.00000°. NP2:ϕ_s359.00000°,δ7.00000°,λ-170.00000°. Principal axes: T 10.4000,Plg43.0000°,Azm343.0000°; N -2.2000,Plg6.0000°,Azm79.0000° ; P -8.2000,Plg45.0000°,Azm176.0000° $M_0$9.50000×10^{19}
ISC VI 24 04 20 48.9–.62 51.90N–.08 171.78W–.03 48–5 4.8b 632 1-153
MOS VI 24 04 20 47.7–.92 52.08N 171.86W 46 5.0b **¶16652959**
BJI VI 24 04 20 48.7 52.61N 172.45W 32 5.6s,5.5
ISCJB VI 24 04 20 49.9–.32 52.01N–.03 171.81W–.02 70–2 4.7b,5.5
NEIC VI 24 04 20 50.4 51.69N 171.70W 44 4.7b,4.3L
IDC VI 24 04 20 52.4–3.0 52.07N 171.86W 74–25 5.3s,5.3
ISC Event type se.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=90.9.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.1km az=174.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=17.6km s-min=10.1km az=173.0.
ISC VI 24 04 32 51.4–.93 51.9N–.10 171.70W–.05 50 4.1b 43 2-89
IDC VI 24 04 32 44.6–.97 52.12N 172.06W 0 4.0,3.9 **¶16722442**
ISCJB VI 24 04 32 50.4–.68 51.8N–.10 171.62W–.06 50 4.0b,3.9
NEIC VI 24 04 32 52.2 51.70N 171.60W 34 3.5L,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=18.8km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=3.5km az=162.9.
NEIC Event type se. After AEIC.
ISC VI 24 05 46 38.4–.53 51.87N–.10 171.71W–.04 44 4.4b 151 2-150
NEIC VI 24 05 46 33.8 51.72N 171.66W 3 4.2b,4.2L **¶16652965**
ISCJB VI 24 05 46 36.8–.36 51.86N–.06 171.72W–.04 44 5.0s,4.4b
IDC VI 24 05 46 41.2–5.2 52.13N 171.79W 68–46 4.2,4.0
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=2.5km az=165.0.

IDC Error ellipse: s-maj=20.2km s-min=11.9km az=170.0.
ISC VI 24 06 03 20.3–1.1 52.0N–.10 171.73W–.04 59–9 4.3b 149 1-150
NEIC VI 24 06 03 16.9 51.77N 171.67W 17 4.4b,4.2L **¶16679630**
ISCJB VI 24 06 03 17.6–.50 51.96N–.06 171.82W–.04 51–4 4.4b,4.2L
IDC VI 24 06 03 21.5–5.1 52.21N 171.77W 67–46 4.2,4.1
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=3.0km az=165.7.
IDC Error ellipse: s-maj=22.3km s-min=11.3km az=178.0.
ISC VI 24 06 06 26.4–.81 51.9N–.10 171.75W–.04 50 3.9b 42 1-89
IDC VI 24 06 06 19.7–1.2 52.07N 172.04W 0 4.8,4.8s **¶16722444**
ISCJB VI 24 06 06 25.1–.71 51.9N–.10 171.70W–.05 50 4.8s,3.9b
NEIC VI 24 06 06 25.9 51.73N 171.63W 26 3.7L,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=32.8km s-min=19.2km az=2.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=3.6km az=168.6.
NEIC Event type se. After AEIC.
ISC VI 24 07 07 28.0–.83 51.8N–.10 171.69W–.04 44 4.0b 48 2-89
ISCJB VI 24 07 07 26.4–.65 51.70N–.09 171.62W–.05 44 4.0b **¶16722448**
NEIC VI 24 07 07 27.0 51.71N 171.65W 9 4.0b,3.7L
IDC VI 24 07 07 30.8–7.4 52.08N 171.76W 65–67 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=3.3km az=168.0.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=28.8km s-min=16.0km az=2.0.
ISC VI 24 09 06 25.7–1.1 52.02N–.09 171.56W–.04 69–9 4.4b 185 2-150
IDC VI 24 09 06 16.9–.71 52.07N 171.68W 0 4.4,4.2 **¶16658834**
MOS VI 24 09 06 20.5–1.1 52.02N 171.88W 33 4.7b,4.2
NEIC VI 24 09 06 22.5 51.62N 171.38W 18 4.2L,4.1b
ISCJB VI 24 09 06 24.3–.42 52.04N–.06 171.61W–.04 69–3 4.3b,4.1b
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC VI 24 09 41 35.0–.62 52.07N–.07 171.53W–.03 52–4 4.7b,3.5s 675 2-153
MOS VI 24 09 41 32.8–.95 52.17N 171.75W 43 5.0b,3.5s **¶16658835**
BJI VI 24 09 41 33.2 52.63N 171.96W 33 5.1b,5.0b
ISCJB VI 24 09 41 35.6–.33 52.10N–.03 171.56W–.02 73–2 4.7b,5.0b
IDC VI 24 09 41 36.1–2.0 52.16N 171.63W 60–16 4.7,4.5
NEIC VI 24 09 41 37.4–.36 52.20N 171.66W 66–3 4.7b,4.3L
ISC Event type se.
MOS Error ellipse: s-maj=7.8km s-min=5.1km az=87.1.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.1km az=168.9.
IDC Error ellipse: s-maj=17.9km s-min=9.4km az=168.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=2.4km az=169.0.
ISC VI 24 11 42 44.7–.68 52.01N–.07 171.76W–.03 51–4 4.6b,4.1s 630 1-153
MOS VI 24 11 42 40.9–.98 52.05N 171.90W 33 5.0b,4.1s **¶16658841**
BJI VI 24 11 42 40.9 52.10N 171.80W 39 5.1b,5.0b
IDC VI 24 11 42 42.7–1.8 52.04N 171.74W 36–12 4.5,4.4
ISCJB VI 24 11 42 43.3–.33 51.98N–.03 171.78W–.02 58–2 4.7b,4.1s
NEIC VI 24 11 42 44.9–.32 52.01N 171.86W 54–2 4.6b,4.6L
ISC Event type se.
MOS Error ellipse: s-maj=8.1km s-min=5.7km az=89.4.
IDC Error ellipse: s-maj=15.5km s-min=8.9km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.1km az=174.2.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=2.0km az=169.0.
ISC VI 24 11 57 25.4–.92 51.9N–.10 171.80W–.05 50 3.7b 36 1-89
IDC VI 24 11 57 18.4–1.2 51.89N 171.96W 0 3.9,3.6 **¶16731366**
NEIC VI 24 11 57 22.1 51.66N 171.68W 7 3.8L,3.5b
ISCJB VI 24 11 57 23.6–.70 51.8N–.10 171.76W–.06 50 3.6b,3.5b
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC VI 24 13 08 02.8–.99 51.8N–.10 171.64W–.05 44 3.9b 31 2-89
IDC VI 24 13 07 56.7–1.4 51.92N 171.86W 0 3.9,3.8L **¶16731370**
ISCJB VI 24 13 08 01.5–.82 51.8N–.10 171.61W–.07 44 3.8b,2.6s
NEIC VI 24 13 08 03.1 51.77N 171.59W 36 3.6b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=38.9km s-min=24.9km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=17.8km s-min=4.0km az=165.3.
NEIC Event type se. After AEIC.
ISC VI 24 14 28 31.8–.78 51.8N–.10 171.65W–.05 47 4.0b 78 2-89
ISCJB VI 24 14 28 31.0–.54 51.79N–.09 171.57W–.05 47 4.1b,3.6s **¶16681340**
NEIC VI 24 14 28 34.6 51.79N 171.65W 47 3.7b,3.6L
IDC VI 24 14 28 36.4–5.1 52.05N 171.77W 84–46 4.1,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=3.0km az=166.2.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=22.7km s-min=12.9km az=165.0.
ISC VI 24 18 04 56.8–1.2 52.0N–.20 171.66W–.05 50 3.1b 24 2-63
IDC VI 24 18 04 49.2–2.4 51.83N 171.90W 0 3.9,3.9s **¶16704930**
ISCJB VI 24 18 04 56.0–.95 52.0N–.10 171.65W–.07 50 3.9s,3.3b
NEIC VI 24 18 04 57.4 51.95N 171.68W 20 3.3L,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=66.3km s-min=33.6km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=4.1km az=167.4.
NEIC Event type se. After AEIC.
ISC VI 24 19 18 19.1–.51 51.90N–.09 171.59W–.04 38–2 4.4b,3.8s 232 2-89
MOS VI 24 19 18 18.2–.97 52.03N 171.65W 46 4.6b,3.8s **¶16681175**
ISCJB VI 24 19 18 19.3–.46 52.01N–.05 171.64W–.03 56–3 4.4b,3.7s
IDC VI 24 19 18 19.6–2.5 52.03N 171.65W 42–20 4.1,4.1
NEIC VI 24 19 18 20.5–.40 51.93N 171.64W 55–3 4.6b,4.2L
BJI VI 24 19 18 21.4 52.70N 172.31W 44 5.1b,4.8s
ISC Event type se.
MOS Error ellipse: s-maj=10.0km s-min=6.9km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=3.1km az=169.3.
IDC Error ellipse: s-maj=20.1km s-min=11.7km az=168.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=2.5km az=171.0.
NEIC VI 24 20 07 30.1 52.15N 170.60W 6 3.5L
¶602918747
NEIC Event type se. After AEIC.
ISC VI 24 21 13 46.6–1.4 51.6N–.20 171.65W–.05 27 3.7b 32 2-54
IDC VI 24 21 13 42.4–3.0 51.79N 171.64W 0 3.9,3.8L **¶16731401**
ISCJB VI 24 21 13 45.7–.90 51.5N–.10 171.54W–.06 27 3.7b,3.8L
NEIC VI 24 21 13 48.1 51.47N 171.59W 19 3.4L,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=61.1km s-min=32.0km az=19.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=4.0km az=164.5.
NEIC Event type se. After AEIC.
ISC VI 24 23 46 21.2–.80 51.84N–.10 171.59W–.04 44 3.9b,3.0s 39 2-89
IDC VI 24 23 46 14.9–.93 51.99N 171.90W 0 4.1,3.9 **¶16731406**
ISCJB VI 24 23 46 20.2–.56 51.85N–.07 171.54W–.05 44 3.9b,2.9s
NEIC VI 24 23 46 20.4 51.69N 171.51W 25 3.9L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=29.7km s-min=19.1km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=3.6km az=164.9.
NEIC Event type se. After AEIC.
ISC VI 25 06 21 28.8–1.9 51.8N–.20 171.45W–.05 44–20 3.7b 30 2-89
IDC VI 25 06 21 20.2–1.4 52.11N 172.45W 0 3.9,3.7b **¶16722460**
NEIC VI 25 06 21 26.0 51.66N 171.50W 18 3.4L,3.7b
ISCJB VI 25 06 21 27.8–1.1 51.8N–.10 171.43W–.06 51–11 3.6b,2.7s
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC VI 25 08 09 35.5–2.2 51.95N–.09 171.48W–.03 11–12 4.4b,3.3s 348 2-154
IDC VI 25 08 09 33.8–.69 52.12N 171.65W 0 4.3,4.2 **¶16681358**
BJI VI 25 08 09 37.4 52.05N 171.24W 58 4.8b,4.7s
NEIC VI 25 08 09 38.6 51.78N 171.55W 44 4.3b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=12.2km az=171.0.
NEIC Event type se. After AEIC.
ISC VI 25 08 36 44.9–1.8 52.5N–.10 168.04W–.05 41–15 3.8b 41 1-86
IDC VI 25 08 36 39.2–1.5 52.50N 168.06W 0 3.8b,3.8 **¶16722463**
ISCJB VI 25 08 36 42.0–1.1 52.28N–.08 167.97W–.08 38–8 3.7b,3.3s
NEIC VI 25 08 36 42.2 52.31N 167.92W 25 3.3L,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=38.8km s-min=17.7km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=6.1km az=155.7.
NEIC Event type se. After AEIC.
ISC VI 25 12 44 09.1–.00 51.9N–.10 171.54W–.05 44 3.6b 29 2-89
IDC VI 25 12 44 03.0–1.3 51.91N 171.63W 0 3.7,3.5 **¶16731438**
ISCJB VI 25 12 44 07.6–.81 51.9N–.10 171.49W–.06 44 3.5b,3.0s
NEIC VI 25 12 44 08.3 51.91N 171.56W 50 3.5L,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=38.6km s-min=22.9km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=3.7km az=165.5.
NEIC Event type se. After AEIC.
ISC VI 27 23 27 33.4–.34 51.95N–.03 171.70W–.02 33–1 5.8b,5.4s 2135 2-161
BJI VI 27 23 27 32.8 52.16N 172.18W 31 5.8b,5.7s **¶16683878**
MOS VI 27 23 27 32.4–.94 52.04N 171.77W 34 5.9b,5.5s
NEIC VI 27 23 27 33.0–.00 51.96N 171.73W 30 5.9b,5.5s
GCMT VI 27 23 27 33.5–.10 51.92N 171.75W 29–0 5.8W,5.5s
NEIC VI 27 23 27 33.5–.10 52.00N 171.76W 29 6.1,5.9b
ISCJB VI 27 23 27 34.2–.28 52.00N–.02 171.68W–.01 52–2 5.7b,5.4s
IDC VI 27 23 27 34.2–1.1 52.00N 171.74W 37–8 5.4,5.3
ISC Event type se.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=91.0.
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$0.29 $M_{\phi\phi}$-1.36 $M_{r\theta}$4.65 $M_{\theta\phi}$-0.99 $M_{\phi r}$3.04 Best double couple: NP1:ϕ_s56.00000° ,δ84.00000°,λ101.00000°. NP2:ϕ_s172.00000°,δ13.00000°,λ26.00000°. Principal axes: T 5.7300,Plg49.0000°,Azm338.0000°; N 0.0900,Plg11.0000°,Azm234.0000° ; P -5.8200,Plg38.0000°,Azm135.0000° $M_0$5.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c235; s128,c323;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31±.04 $M_{\theta\theta}$0.34±.03; $M_{\phi\phi}$-1.66±.03; $M_{r\theta}$5.72±.12; $M_{\theta\phi}$-1.05±.02; $M_{\phi r}$2.94±.08; Best double couple: NP1:ϕ_s61.00000° ,δ85.00000°,λ102.00000°. NP2:ϕ_s173.00000°,δ13.00000°,λ23.00000°. Principal axes: T 6.8370,Plg49.0000°,Azm344.0000°; N -0.3100,Plg12.0000°,Azm240.0000° ; P -6.5330,Plg39.0000°,Azm140.0000° $M_0$6.68500×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=1.8km az=172.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s88 Moment tensor: Scale 10^{17}Nm; M_{rr}1.08 $M_{\theta\theta}$-0.86 $M_{\phi\phi}$-0.22 $M_{r\theta}$3.17 $M_{\theta\phi}$-0.44 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s237.00000°,δ9.00000°,λ79.00000°. NP2: ϕ_s68.00000°,δ81.00000°,λ92.00000°. Principal axes: T 3.5700,Plg54.0000°,Azm340.0000° ; N 0.0000,Plg2.0000°,Azm248.0000°; P -3.5700,Plg36.0000°,Azm157.0000° $M_0$3.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s240.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s60.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm330.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000° ,Azm150.0000°
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=1.5km az=2.3.
IDC Error ellipse: s-maj=9.0km s-min=6.4km az=160.0.
NEIC VI 27 23 29 57.5 51.83N 171.63W 50 4.2L
¶602918795
NEIC Event type se. After AEIC.
NEIC VI 27 23 33 50.5 51.90N 171.81W 50 3.3L
¶602918796
NEIC Event type se. After AEIC.
NEIC VI 27 23 36 00.7 51.70N 171.55W 41 3.0L
¶602897796
NEIC Event type se. After AEIC.
ISC VI 28 00 00 27.0–.71 51.9N–.10 171.63W–.04 44 3.9b 48 2-150
ISCJB VI 28 00 00 25.2–.60 51.74N–.09 171.54W–.05 44 3.9b **¶16721021**
NEIC VI 28 00 00 25.9 51.77N 171.57W 42 3.9L
IDC VI 28 00 00 33.3–5.1 52.12N 171.74W 95–45 4.0,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=3.6km az=166.6.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=21.6km s-min=12.8km az=174.0.
ISC VI 28 00 03 41.5–.64 51.88N–.10 171.62W–.04 44 4.1b 79 2-150
MOS VI 28 00 03 38.0–1.3 51.85N 171.63W 33 4.3b **¶16721022**
ISCJB VI 28 00 03 39.1–.57 51.75N–.08 171.52W–.05 44 4.2b,3.9s
NEIC VI 28 00 03 39.8 51.78N 171.53W 50 4.1L,3.9s
IDC VI 28 00 03 45.8–4.9 52.09N 171.82W 79–44 4.0,3.9
ISC Event type se.
MOS Error ellipse: s-maj=14.8km s-min=9.9km az=105.2.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=3.6km az=165.2.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=22.0km s-min=12.6km az=168.0.
ISC VI 28 00 28 06.7–1.1 51.9N–.20 171.35W–.06 44 3.4b 20 2-89
ISCJB VI 28 00 28 04.8–.81 51.8N–.10 171.32W–.08 44 3.5b **¶16731653**
NEIC VI 28 00 28 05.0 51.83N 171.29W 47 3.3L
IDC VI 28 00 28 17.5–21 52.09N 171.52W 145–197 3.5L,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=4.7km az=163.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=65.6km s-min=32.8km az=17.0.
ISC VI 28 00 36 18.3–1.2 52.0N–.20 171.58W–.06 50 3.9b 21 2-66
IDC VI 28 00 36 08.6–1.4 51.58N 172.11W 0 4.0,3.8b **¶16731654**
ISCJB VI 28 00 36 16.1–.96 51.8N–.10 171.51W–.07 50 3.8b,3.8b
NEIC VI 28 00 36 17.6 51.94N 171.59W 44 3.5L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=42.2km s-min=19.1km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=19.7km s-min=4.5km az=168.6.
NEIC Event type se. After AEIC.
ISC VI 28 01 18 02.2–.66 51.84N–.10 171.60W–.04 44 4.0b,3.7s 79 2-150
ISCJB VI 28 01 18 00.9–.46 51.83N–.07 171.61W–.04 44 4.2b,3.4s **¶16684575**
NEIC VI 28 01 18 01.4 51.93N 171.57W 56 4.1b,4.0L
IDC VI 28 01 18 09.4–6.7 52.09N 171.73W 105–59 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=3.1km az=166.9.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=24.0km s-min=15.9km az=6.0.
ISC VI 28 01 33 47.8–1.4 51.9N–.10 171.59W–.04 56–11 4.0b 69 2-150
NEIC VI 28 01 33 45.9 51.73N 171.56W 44 4.3b,3.9L **¶16731657**
ISCJB VI 28 01 33 47.1–.75 51.94N–.10 171.61W–.05 64–4 4.1b,3.9L
IDC VI 28 01 33 52.1–5.5 52.09N 171.72W 87–48 3.9,3.7
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=3.7km az=165.6.
IDC Error ellipse: s-maj=22.9km s-min=14.1km az=175.0.
ISC VI 28 01 43 19.5–.84 51.8N–.10 171.65W–.04 44 3.9b 31 2-89
ISCJB VI 28 01 43 17.8–.74 51.8N–.10 171.55W–.06 44 3.9b,3.8s **¶16731658**
NEIC VI 28 01 43 18.4 51.78N 171.58W 35 3.8L,3.8s
IDC VI 28 01 43 19.9–9.7 51.99N 171.87W 47–89 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=4.4km az=168.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=38.7km s-min=22.5km az=24.0.
ISC VI 28 01 58 25.0–2.1 52.0N–.40 171.6W–.20 44 3.8b 9 18-70
ISCJB VI 28 01 58 22.5–1.6 51.9N–.30 171.6W–.20 44 3.8b **¶17207107**
IDC VI 28 01 58 29.2–17 52.18N 171.45W 75–148 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.3km s-min=19.4km az=177.4.
IDC Error ellipse: s-maj=69.8km s-min=26.3km az=22.0.
ISC VI 28 05 40 32.8–.81 52.5N–.20 170.82W–.07 42 3.9b 24 1-90
IDC VI 28 05 40 26.5–.84 52.36N 171.08W 0 4.1,3.8 **¶16731671**
NEIC VI 28 05 40 27.6 51.92N 170.51W 25 3.8L,3.8
ISCJB VI 28 05 40 31.0–.61 52.4N–.10 170.9W–.10 42 3.8b,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC VI 28 05 47 53.8–.88 52.6N–.20 170.80W–.07 48 3.7b 24 1-90
IDC VI 28 05 47 46.2–1.4 52.92N 171.34W 0 3.9,3.7b **¶16731672**

NEIC VI 28 05 47 49.8 52.07N 170.59W 26 3.5L,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=79.6km s-min=23.0km az=151.0.
NEIC Event type se. After AEIC.
ISC VI 28 06 03 59.3–.82 51.9N–.10 171.63W–.05 50 3.8b 28 2-89
IDC VI 28 06 03 52.5–.90 51.96N 171.90W 0 4.0,3.9L **¶16731674**
ISCJB VI 28 06 03 57.8–.65 51.9N–.10 171.65W–.07 50 3.8b,3.9L
NEIC VI 28 06 03 57.7 51.87N 171.61W 43 3.8L,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=31.6km s-min=18.0km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=4.3km az=163.9.
NEIC Event type se. After AEIC.
ISC VI 28 06 48 34.3–.34 51.90N–.04 171.75W–.03 52–2 5.5s,5.4b 1354 1-159
MOS VI 28 06 48 31.3–.97 52.15N 171.78W 33 5.6b,5.5s **¶16683888**
GCMT VI 28 06 48 32.7–.10 51.84N 171.82W 36–0 5.8W,5.5s
IDC VI 28 06 48 32.9–1.4 52.11N 171.74W 33–9 5.3,5.3s
NEIC VI 28 06 48 32.5–.18 52.09N 171.70W 30 5.8W,5.8
ISCJB VI 28 06 48 33.1–.32 52.07N–.03 171.66W–.02 53–2 5.4s,5.4b
BJI VI 28 06 48 34.5 52.51N 172.24W 47 5.7s,5.6b
NEIC VI 28 06 48 35.5–.00 51.94N 171.93W 23 5.7s,5.6b
ISC Event type se.
MOS Error ellipse: s-maj=6.1km s-min=4.4km az=89.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c244; s129,c321;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}3.84±.06 $M_{\theta\theta}$-3.86±.05; $M_{\phi\phi}$0.02±.05; $M_{r\theta}$5.64±.11; $M_{\theta\phi}$-0.37±.04; $M_{\phi r}$-0.11±.07; Best double couple: NP1:ϕ_s90.00000°,δ73.00000°,λ93.00000°. NP2:ϕ_s259.00000°,δ17.00000°,λ80.00000°. Principal axes: T 6.8290,Plg62.0000°,Azm5.0000°; N 0.0210,Plg3.0000°,Azm269.0000° ; P -6.8500,Plg28.0000°,Azm177.0000° $M_0$6.84000×10^{17}
IDC Error ellipse: s-maj=12.5km s-min=7.8km az=178.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=3.0km az=175.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36 $M_{\theta\theta}$-1.98 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.88 $M_{\theta\phi}$-0.68 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s241.00000°,δ20.00000°,λ70.00000°. NP2: ϕ_s81.00000°,δ71.00000°,λ97.00000°. Principal axes: T 3.8000,Plg63.0000°,Azm3.0000° ; N -0.2200,Plg7.0000°,Azm259.0000°; P -3.5800,Plg26.0000°,Azm166.0000° $M_0$3.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s260.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s80.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm350.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000° ,Azm170.0000°
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=1.7km az=4.1.
NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}2.88 $M_{\theta\theta}$-2.83 $M_{\phi\phi}$-0.05 $M_{r\theta}$5.48 $M_{\theta\phi}$-0.29 $M_{\phi r}$0.45 Best double couple: NP1:ϕ_s85.00000° ,δ76.00000°,λ90.00000°. NP2:ϕ_s263.00000°,δ14.00000°,λ88.00000°. Principal axes: T 6.2100,Plg58.0000°,Azm355.0000°; N -0.0100,Plg0.0000°,Azm265.0000° ; P -6.2000,Plg31.0000°,Azm174.0000° $M_0$6.20000×10^{17}
ISC VI 28 06 52 52.4–.80 51.9N–.10 171.63W–.05 44 4.3b 37 2-89
ISCJB VI 28 06 52 50.6–.59 51.81N–.09 171.57W–.06 44 4.2b **¶16731680**
NEIC VI 28 06 52 52.2 51.89N 171.61W 42 4.9L,4.5b
IDC VI 28 06 52 53.2–8.6 52.05N 171.75W 50–82 4.4L,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=4.2km az=167.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=28.5km s-min=20.1km az=10.0.
ISC VI 28 06 54 02.0–.47 51.95N–.06 171.57W–.03 52–3 5.3b 1176 2-154
MOS VI 28 06 53 58.7–1.3 51.88N 171.70W 33 5.5b **¶16683889**
BJI VI 28 06 54 01.1 52.33N 172.07W 46 5.5s,5.3
IDC VI 28 06 54 01.1–1.4 52.06N 171.64W 41–11 5.1s,5.1
ISCJB VI 28 06 54 02.0–.36 52.04N–.03 171.57W–.02 69–3 5.2b,5.1
GCMT VI 28 06 54 03.2–.30 51.81N 171.70W 35–0 5.4W,5.1
NEIC VI 28 06 54 03.2–.32 52.01N 171.67W 62–2 5.4b,5.3L
ISC Event type se.
MOS Error ellipse: s-maj=13.5km s-min=8.3km az=66.6.
IDC Error ellipse: s-maj=12.8km s-min=8.1km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=1.9km az=179.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c48; s108,c180; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.08 $M_{\theta\theta}$1.51±.05; $M_{\phi\phi}$-0.34±.05; $M_{r\theta}$0.40±.04; $M_{\theta\phi}$-0.36±.03; $M_{\phi r}$0.55±.03; Best double couple: NP1:ϕ_s255.00000°,δ57.00000° ,λ-124.00000°. NP2:ϕ_s127.00000°,δ46.00000°,λ-49.00000°. Principal axes: T 1.6110,Plg6.0000°,Azm9.0000°; N -0.0840,Plg28.0000°,Azm275.0000° ; P -1.5250,Plg61.0000°,Azm110.0000° $M_0$1.56800×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=1.8km az=173.0.
ISC VI 28 06 58 24.4–1.2 52.1N–.20 171.8W–.20 50 4.0b 10 18-89
IDC VI 28 06 58 17.4–1.2 52.00N 171.87W 0 4.1,3.9 **¶17207122**
ISCJB VI 28 06 58 22.7–1.1 52.1N–.20 171.8W–.20 50 4.0b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 28 07 27 17.1–1.1 52.0N–.20 171.59W–.06 44 3.7b 22 2-89
IDC VI 28 07 27 10.4–1.3 52.03N 171.82W 0 3.8,3.7b **¶16722467**
ISCJB VI 28 07 27 15.8–.91 51.9N–.20 171.53W–.08 44 3.6b,3.7b
NEIC VI 28 07 27 16.4 51.99N 171.52W 42 3.5L,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=41.8km s-min=25.9km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=22.5km s-min=4.5km az=164.3.
NEIC Event type se. After AEIC.
ISC VI 28 07 32 27.5–.62 51.97N–.05 171.71W–.03 47–4 5.2b,4.6s 1253 2-160
MOS VI 28 07 32 24.4–1.0 52.09N 171.86W 33 5.4b,4.6s **¶16683891**
BJI VI 28 07 32 24.5 52.40N 171.92W 33 5.4s,5.3b
NEIC VI 28 07 32 24.8 51.72N 171.64W 26 5.2b,5.1L
GCMT VI 28 07 32 24.8–.20 51.98N 171.96W 17–0 5.4W,5.1L
IDC VI 28 07 32 26.6–1.4 52.12N 171.74W 37–10 4.9,4.8
ISCJB VI 28 07 32 27.8–.31 52.10N–.03 171.75W–.02 67–2 5.1b,4.8
ISC Event type se.
NEIC Event type se. After AEIC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c65; s101,c150;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.21±.02 $M_{\theta\theta}$-0.16±.01; $M_{\phi\phi}$-0.05±.02; $M_{r\theta}$1.64±.12; $M_{\theta\phi}$-0.15±.01; $M_{\phi r}$0.28±.05; Best double couple: NP1:ϕ_s80.00000°,δ86.00000°,λ94.00000°. NP2:ϕ_s209.00000°,δ6.00000° ,λ40.00000°. Principal axes: T 1.6850,Plg48.0000°,Azm355.0000°; N -0.0080,Plg4.0000° ,Azm260.0000°; P -1.6780,Plg41.0000°,Azm166.0000° $M_0$1.68200×10^{17}
ISCJB Event type se.
IDC VI 28 07 33 43.4–3.1 52.39N 171.20W 0 4.7,4.4 ¶17207126
IDC Error ellipse: s-maj=83.8km s-min=34.2km az=177.0.
ISC VI 28 07 53 27.8–.65 51.9N–.10 171.67W–.05 50 4.2b 53 2-89
IDC VI 28 07 53 20.3–1.1 51.87N 172.05W 0 4.1,3.9 **¶16684584**
ISCJB VI 28 07 53 26.4–.48 51.80N–.08 171.64W–.06 50 4.3b,3.9
NEIC VI 28 07 53 26.9 52.13N 171.68W 20 4.1b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=38.3km s-min=17.4km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=4.2km az=164.1.
NEIC Event type se. After AEIC.
ISC VI 28 08 58 54.8–1.1 52.0N–.20 171.45W–.06 44 3.9b 20 2-89
IDC VI 28 08 58 48.3–1.3 51.91N 171.86W 0 3.9,3.8b **¶16722468**
NEIC VI 28 08 58 51.7 51.64N 171.33W 57 3.5L,3.8b
ISCJB VI 28 08 58 52.5–.97 51.8N–.10 171.40W–.08 44 3.9b,3.8b
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC VI 28 09 50 34.6–.42 52.03N–.07 171.53W–.03 44 4.8b,3.7s 773 2-150
NEIC VI 28 09 50 30.0 51.57N 171.31W 11 4.8b,4.5L **¶16684585**
BJI VI 28 09 50 31.5 52.37N 171.85W 34 5.2s,5.1b
MOS VI 28 09 50 32.6–1.0 52.22N 171.61W 33 5.1b,5.1b
ISCJB VI 28 09 50 33.2–.14 52.10N–.03 171.53W–.03 44 4.8b,3.7s
IDC VI 28 09 50 36.2–4.5 52.18N 171.63W 54–40 4.5,4.4L
ISC Event type se.
NEIC Event type se. After AEIC.
MOS Error ellipse: s-maj=11.5km s-min=6.8km az=135.7.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.4km az=171.0.
IDC Error ellipse: s-maj=21.6km s-min=11.1km az=178.0.

ISC VI 28 16 13 31.9–.41 51.82N–.04 171.83W–.02 32–2 5.2b,4.6s 1381 1-159
BJI VI 28 16 13 29.8 52.08N 171.93W 27 5.3b,5.1b **¶16684591**
ISCJB VI 28 16 13 30.3–.10 51.84N–.02 171.69W–.02 33 5.2b,4.6s
MOS VI 28 16 13 30.8–1.0 51.90N 171.80W 35 5.4b,4.6s
GCMT VI 28 16 13 32.2–.20 51.93N 171.86W 35–1 5.2W,4.6s
NEIC VI 28 16 13 32.2 51.72N 171.76W 44 5.2b,5.0L
IDC VI 28 16 13 33.2–1.6 51.97N 171.83W 37–11 4.9,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=1.4km az=0.9.
MOS Error ellipse: s-maj=6.0km s-min=4.3km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c79; s90,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.96±.14 $M_{\theta\theta}$1.79±.12; $M_{\phi\phi}$0.16±.10; $M_{r\theta}$6.23±.34; $M_{\theta\phi}$1.83±.08; $M_{\phi r}$-0.07±.12; Best double couple: NP1:ϕ_s268.00000°,δ81.00000° ,λ-75.00000°. NP2:ϕ_s27.00000°,δ18.00000°,λ-150.00000°. Principal axes: T 6.7360,Plg35.0000°,Azm345.0000°; N 0.0460,Plg15.0000°,Azm86.0000° ; P -6.7840,Plg51.0000°,Azm195.0000° $M_0$6.76000×10^{16}
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=13.7km s-min=8.1km az=162.0.
ISC VI 28 16 43 60.0–.46 51.84N–.08 171.77W–.03 50 4.4b,3.6s 211 1-154
MOS VI 28 16 43 56.7–1.2 51.86N 171.90W 33 4.5b,3.6s **¶16685965**
ISCJB VI 28 16 43 58.6–.23 51.84N–.04 171.79W–.03 50 4.4b,3.5s
NEIC VI 28 16 43 60.0–.41 51.85N 171.83W 49–3 4.4b,4.4L
IDC VI 28 16 44 01.4–4.0 51.99N 171.82W 60–35 4.1,4.0L
ISC Event type se.
MOS Error ellipse: s-maj=10.2km s-min=7.4km az=77.4.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=2.3km az=167.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=2.4km az=166.0.
IDC Error ellipse: s-maj=18.9km s-min=10.0km az=171.0.
ISC VI 28 16 59 55.1–1.1 51.7N–.20 171.60W–.05 27 3.7b 28 2-89
IDC VI 28 16 59 51.0–1.3 51.76N 171.79W 0 3.8,3.7b **¶16731717**
ISCJB VI 28 16 59 53.1–.88 51.7N–.10 171.56W–.06 27 3.7b,3.7b
NEIC VI 28 16 59 55.1 51.70N 171.64W 42 3.5L,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=38.0km s-min=22.2km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=4.0km az=166.1.
NEIC Event type se. After AEIC.
ISC VI 28 18 22 44.0–.91 52.0N–.10 171.56W–.06 44 3.5b 21 2-89
IDC VI 28 18 22 37.1–1.3 51.82N 171.74W 0 3.7,3.5b **¶16731721**
ISCJB VI 28 18 22 42.7–.78 52.0N–.10 171.51W–.08 44 3.5b,3.5b
NEIC VI 28 18 22 42.3 51.92N 171.52W 21 3.3L,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=41.5km s-min=25.8km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=4.8km az=163.2.
NEIC Event type se. After AEIC.
ISC VI 29 05 38 44.5–1.3 51.7N–.20 171.61W–.06 27 3.7b 15 2-89
IDC VI 29 05 38 39.8–1.3 51.68N 171.96W 0 3.8,3.8 **¶16731745**
ISCJB VI 29 05 38 43.5–1.0 51.6N–.10 171.49W–.08 27 3.8s,3.6b
NEIC VI 29 05 38 48.3 52.11N 171.71W 50 3.4L,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=168.1km s-min=23.4km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=6.1km az=169.4.
NEIC Event type se. After AEIC.
ISC VI 30 03 46 37.0–.84 51.9N–.10 170.37W–.06 31 4.0b,3.3s 63 1-115
BJI VI 30 03 46 31.8 51.70N 170.40W 21 5.0b,4.7 **¶16702452**
IDC VI 30 03 46 32.6–1.6 51.96N 170.55W 0 4.0,3.8L
ISCJB VI 30 03 46 34.6–.58 51.72N–.09 170.29W–.05 31 4.0b,3.2s
NEIC VI 30 03 46 36.0 51.74N 170.32W 30 4.2b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=40.5km s-min=17.2km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=3.3km az=163.2.
NEIC Event type se. After AEIC.
ISC VI 30 11 16 08.9–1.2 51.8N–.20 171.51W–.06 50 3.4b 17 2-89
IDC VI 30 11 16 00.7–1.6 51.84N 172.10W 0 3.7,3.5b **¶16731847**
ISCJB VI 30 11 16 07.1–.95 51.8N–.10 171.47W–.07 50 3.4b,3.5b
NEIC VI 30 11 16 08.4 51.96N 171.52W 25 3.2L,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=62.8km s-min=29.5km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=5.2km az=166.7.
NEIC Event type se. After AEIC.
ISC VI 30 20 49 32.4–.99 51.8N–.20 171.71W–.06 44 3.8b,3.2s 24 2-89
ISCJB VI 30 20 49 30.5–.85 51.8N–.10 171.66W–.07 44 3.7b,3.0s **¶16731877**
NEIC VI 30 20 49 30.6 51.71N 171.68W 43 3.6L,3.0s
IDC VI 30 20 49 42.0–9.2 52.21N 171.75W 130–85 3.7,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=4.4km az=165.0.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=44.2km s-min=16.8km az=172.0.

(10) Unimak Island region.

ISC II 18 22 12 56.3–2.2 53.54N–.10 163.52W–.05 15–12 3.8b 37 1-80
IDC II 18 22 12 54.4–1.3 53.59N 163.62W 0 3.7,3.6 **¶16342611**
NEIC II 18 22 12 58.6 53.51N 163.58W 29 3.3L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=36.9km s-min=16.5km az=163.0.
NEIC Event type se. After AEIC.
ISC III 20 20 55 22.3–3.0 53.43N–.10 163.63W–.05 26–18 4.3b,3.6s 69 1-86
IDC III 20 20 55 18.9–1.1 53.49N 163.71W 0 4.2,4.2b **¶16479824**
NEIC III 20 20 55 22.6 53.41N 163.65W 33 3.8b,3.7L
ISCJB III 20 20 55 22.0–.89 53.35N–.06 163.61W–.07 40–6 4.2b,3.6s
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC III 20 21 01 38.1–2.1 53.49N–.08 163.72W–.05 34–6 4.2b 58 1-151
IDC III 20 21 01 34.1–1.2 53.79N 163.66W 0 4.1,4.0 **¶16479828**
NEIC III 20 21 01 36.5 53.45N 163.68W 15 3.9b,3.7L
ISCJB III 20 21 01 36.7–.86 53.39N–.06 163.63W–.07 41–6 4.1b,3.7L
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC III 22 03 55 33.0–2.0 53.39N–.09 164.26W–.04 25–12 4.4b 88 1-154
IDC III 22 03 55 30.1–.73 53.56N 164.39W 0 4.4,4.4b **¶16341532**
ISCJB III 22 03 55 30.9–1.3 53.23N–.05 164.18W–.04 26–9 4.3b,4.4b
NEIC III 22 03 55 31.9 53.26N 164.22W 32 3.8L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=12.4km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=4.2km az=168.5.
NEIC Event type se. After AEIC.
ISC IV 17 04 51 45.1–1.3 53.60N–.09 164.95W–.04 51–11 3.9b 57 1-86
IDC IV 17 04 51 38.5–1.1 53.65N 165.09W 0 4.0,3.8 **¶16553308**
NEIC IV 17 04 51 42.8 53.47N 164.85W 26 3.8L,3.8
ISCJB IV 17 04 51 43.6–.69 53.57N–.07 164.89W–.06 57–5 3.8b,3.8
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC IV 22 16 16 24.8–1.7 53.60N–.07 164.87W–.04 6–11 3.6b 33 1-65
IDC IV 22 16 16 18.4–3.9 52.95N 166.00W 0 3.9,3.6 **¶16596727**
ISCJB IV 22 16 16 25.7–1.6 53.48N–.08 164.81W–.08 24–12 3.5b,3.6
NEIC IV 22 16 16 26.9 53.55N 164.86W 47 3.4L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=98.8km s-min=34.2km az=39.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=6.0km az=155.6.
NEIC Event type se. After AEIC.
ISC V 22 14 01 07.5–.68 53.49N–.06 164.89W–.04 27 3.9b,2.8s 46 1-79
IDC V 22 14 01 03.8–1.1 53.61N 164.99W 0 4.0,3.9 **¶16532388**
ISCJB V 22 14 01 05.9–.49 53.44N–.05 164.78W–.05 27 3.9b,2.9s
NEIC V 22 14 01 08.1 53.58N 164.84W 21 4.1b,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=16.5km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=7.1.
NEIC Event type se. After AEIC.

ISC VI 04 03 55 00.6–2.0 53.41N–.08 163.74W–.05 10–11 3.9b,3.0s 58 1-86
IDC VI 04 03 55 00.8–1.2 53.72N 163.97W 0 4.0,3.9 **¶16646373**
NEIC VI 04 03 55 03.4 53.41N 163.66W 30 3.7b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=14.6km az=163.0.
NEIC Event type se. After AEIC.
ISC VI 16 19 03 14.6–.96 53.51N–.07 164.88W–.06 27 3.6b 27 1-75
IDC VI 16 19 03 10.2–1.6 53.38N 164.99W 0 3.9,3.7 **¶16730744**
ISCJB VI 16 19 03 13.6–.69 53.50N–.06 164.71W–.06 27 3.7b,3.7
NEIC VI 16 19 03 15.2 53.56N 164.79W 30 3.6L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=40.9km s-min=21.1km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.5km az=8.3.
NEIC Event type se. After AEIC.
ISC VI 24 19 07 24.9–2.9 53.79N–.08 163.72W–.04 2–19 3.8b 74 1-86
IDC VI 24 19 07 25.1–1.2 53.95N 163.78W 0 3.8,3.7b **¶16704931**
NEIC VI 24 19 07 26.7 53.76N 163.70W 15 3.4L,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=34.0km s-min=16.1km az=167.0.
NEIC Event type se. After AEIC.
ISC VI 27 00 09 43.0–.92 53.6N–.10 163.18W–.05 39–7 3.8b 40 1-86
NEIC VI 27 00 09 38.0 53.41N 163.00W 13 3.4L **¶16722911**
IDC VI 27 00 09 38.4–1.7 53.83N 163.28W 0 3.8,3.7
ISCJB VI 27 00 09 41.6–1.0 53.58N–.08 163.15W–.07 41–8 3.7b,3.0s
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC VI 29 21 09 34.4–1.1 53.70N–.09 163.90W–.07 39 3.9b 33 1-86
ISCJB VI 29 21 09 33.1–.76 53.62N–.06 163.81W–.08 39 3.8b **¶16731809**
NEIC VI 29 21 09 34.5 53.68N 163.94W 26 3.4L
IDC VI 29 21 09 39.8–10 53.79N 164.09W 84–78 3.8,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.0km az=154.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=94.0km s-min=27.8km az=156.0.

(12) Alaska Peninsula.

ISC I 18 00 18 22.1–.75 58.90N–.04 154.53W–.04 140–6 3.8b 107 0-65
IDC I 18 00 18 20.8–2.0 59.09N 154.72W 108–31 3.9,3.7 **¶16151706**
ISCJB I 18 00 18 21.3–.28 58.87N–.03 154.50W–.06 144–3 3.7b,3.7
NEIC I 18 00 18 23.5 58.88N 154.55W 136 4.5b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=35.4km s-min=16.2km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.2km az=43.4.
NEIC Event type se. After AEIC.
ISC I 18 00 44 25.1–1.1 58.45N–.05 156.08W–.07 185–8 53 0-54
ISCJB I 18 00 44 24.4–.58 58.43N–.05 156.0W–.10 191–5 3.4b **¶16151711**
IDC I 18 00 44 24.1–2.1 58.72N 156.25W 154–33 3.1,2.8
NEIC I 18 00 44 26.5 58.47N 156.15W 180 2.8,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.6km az=33.2.
IDC Error ellipse: s-maj=37.2km s-min=32.8km az=164.0.
NEIC Event type se. After AEIC.
ISC I 31 20 36 48.0–.91 57.90N–.05 156.11W–.06 136–6 3.2b 50 0-55
IDC I 31 20 36 46.7–2.7 58.12N 156.21W 118–20 3.3,3.2 **¶16136333**
ISCJB I 31 20 36 47.0–.46 57.88N–.04 156.09W–.08 139–4 3.1b,3.2
NEIC I 31 20 36 48.4 57.90N 156.16W 136 2.9,3.2
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=20.3km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=44.9.
NEIC Event type se. After AEIC.
ISC II 02 00 38 17.3–.17 54.93N–.03 160.50W–.02 39–1 5.9b,5.6s 2398 0-164
BJI II 02 00 38 16.6 55.20N 161.10W 31 6.1b,5.9s **¶15996065**
NEIC II 02 00 38 17.8–.11 54.97N 160.47W 35 6.0,5.9W
NEIC II 02 00 38 17.0–.00 54.98N 160.43W 35 6.0,5.9W
MOS II 02 00 38 17.1–1.1 55.15N 160.47W 47 6.2b,5.6s
ISCJB II 02 00 38 17.9–.20 55.02N–.01 160.40W–.01 52–1 5.9b,5.6s
IDC II 02 00 38 19.4–.52 55.00N 160.44W 54–3 5.5,5.5
GCMT II 02 00 38 19.7–.10 54.76N 160.20W 50–0 5.9W,5.5
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=174.0. Felt [IV] at Sand Point. Also felt at Anchorage, Chignik and Cold Bay. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s44 Moment tensor: Scale 10^{17}Nm; M_{rr}3.55 $M_{\theta\theta}$-3.66 $M_{\phi\phi}$0.10 $M_{r\theta}$2.98 $M_{\theta\phi}$-2.84 $M_{\phi r}$1.09 Best double couple: NP1:ϕ_s231.00000°,δ28.00000°,λ74.00000°. NP2:ϕ_s69.00000°,δ63.00000°,λ98.00000°. Principal axes: T 4.6200,Plg71.0000°,Azm357.0000° ; N 1.5700,Plg7.0000°,Azm245.0000°; P -6.2000,Plg18.0000°,Azm153.0000° M_o5.60000×10^{17}
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}6.51 $M_{\theta\theta}$-5.50 $M_{\phi\phi}$-1.01 $M_{r\theta}$5.43 $M_{\theta\phi}$-3.38 $M_{\phi r}$4.11 Best double couple: NP1:ϕ_s55.00000°,δ67.00000°,λ84.00000°. NP2:ϕ_s249.00000°,δ23.00000°,λ103.00000°. Principal axes: T 9.4000,Plg67.0000°,Azm315.0000°; N 0.7000,Plg5.0000°,Azm57.0000° ; P -10.1000,Plg22.0000°,Azm150.0000° M_o9.70000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.9km az=69.5.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.4km az=10.0.
IDC Error ellipse: s-maj=10.0km s-min=5.2km az=8.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c292; s138,c402;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.72±.01 $M_{\theta\theta}$-0.62±.01; $M_{\phi\phi}$-0.10±.01; $M_{r\theta}$0.47±.01; $M_{\theta\phi}$-0.37±.01; $M_{\phi r}$0.24±.01; Best double couple: NP1:ϕ_s62.00000°,δ62.00000°,λ90.00000°. NP2:ϕ_s242.00000°,δ28.00000°,λ90.00000°. Principal axes: T 0.8860,Plg73.0000°,Azm332.0000°; N 0.0950,Plg0.0000°,Azm62.0000° ; P -0.9810,Plg17.0000°,Azm152.0000° M_o0.93400×10^{18}
NEIC II 02 00 42 58.0 54.86N 160.29W 27 4.0L
¶602064380
NEIC Event type se. After AEIC.
ISC II 02 00 49 17.4–.59 54.72N–.07 160.22W–.04 33 4.3b 102 1-145
ISCJB II 02 00 49 17.0–.44 54.70N–.05 160.09W–.05 33 4.3b **¶16168791**
NEIC II 02 00 49 20.3 54.89N 160.37W 26 4.0L
IDC II 02 00 49 20.7–5.1 55.16N 160.42W 42–37 4.1,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=2.6km az=153.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=55.6km s-min=29.2km az=168.0.
ISC II 02 00 51 46.8–1.4 54.89N–.09 160.17W–.06 44–10 4.2b 98 0-150
ISCJB II 02 00 51 46.3–.56 54.88N–.06 160.21W–.06 55–4 4.2b **¶16168792**
NEIC II 02 00 51 46.0 54.86N 160.33W 21 4.7b
IDC II 02 00 51 48.7–4.4 55.32N 160.47W 41–33 4.2L,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=3.3km az=154.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=51.6km s-min=23.0km az=162.0.
ISC II 02 04 22 43.9–1.4 54.78N–.10 160.22W–.05 48–12 3.8b 52 1-81
IDC II 02 04 22 34.9–3.1 54.40N 160.00W 0 3.7b,3.7 **¶16026078**
ISCJB II 02 04 22 43.8–.68 54.83N–.07 160.21W–.07 65–6 3.6b,3.7
NEIC II 02 04 22 44.6 54.85N 160.32W 28 3.4L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=78.1km s-min=23.4km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=3.7km az=153.9.
NEIC Event type se. After AEIC.
ISC II 06 08 20 43.3–.29 55.60N–.03 161.24W–.02 40–2 4.8b,3.7s 577 0-153
MOS II 06 08 20 37.1–.89 55.08N 160.74W 34 5.1b,3.7s **¶16007694**
IDC II 06 08 20 39.0–.66 55.06N 160.51W 41–4 4.6,4.5b
BJI II 06 08 20 39.3 55.60N 161.30W 27 5.0b,4.9b
ISCJB II 06 08 20 42.6–.24 55.66N–.02 161.27W–.02 50–2 4.7b,3.8s
NEIC II 06 08 20 44.1–.23 55.69N 161.34W 43–2 4.6b,4.4L
ISC Event type fe.
MOS Error ellipse: s-maj=14.1km s-min=5.6km az=93.4.
IDC Error ellipse: s-maj=14.7km s-min=8.3km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=167.2.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.3km az=152.0. Felt at Sand Point.

ISC II 10 04 22 31.3–1.6 54.65N–.07 160.28W–.04 18–9 3.9b 38 1-75
IDC II 10 04 22 27.7–2.6 54.56N 160.65W 0 3.7,3.7b **¶16245214**
NEIC II 10 04 22 36.8 54.90N 160.37W 23 3.4L,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=60.8km s-min=23.5km az=149.0.
NEIC Event type se. After AEIC.
ISC II 10 09 39 28.5–.32 58.37N–.04 154.29W–.03 95–2 4.8b 1051 0-161
BJI II 10 09 39 23.0 58.40N 154.20W 69 5.1b,5.1s **¶16019822**
MOS II 10 09 39 23.2–.99 58.40N 154.60W 59 5.1b,5.1s
ISCJB II 10 09 39 27.7–.14 58.48N–.02 154.38W–.02 97–1 4.8b,5.1s
IDC II 10 09 39 27.7–.57 58.48N 154.41W 86–4 4.8,4.6
GCMT II 10 09 39 29.8–.50 58.34N 154.25W 109–5 4.8W,4.6
NEIC II 10 09 39 29.8 58.30N 154.13W 78 4.9b,4.7W
ISC Event type fe.
MOS Error ellipse: s-maj=10.5km s-min=4.6km az=89.2.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=173.6.
IDC Error ellipse: s-maj=10.0km s-min=6.7km az=15.0.
GCMT Error ellipse: s-maj=7.8km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s72,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.64±.13 $M_{\theta\theta}$-2.10±.16; $M_{\phi\phi}$0.45±.15; $M_{r\theta}$-0.26±.11; $M_{\theta\phi}$-0.24±.13; $M_{\phi r}$1.07±.08; Best double couple: NP1:ϕ_s292.00000°,δ55.00000°,λ129.00000°. NP2:ϕ_s58.00000°,δ50.00000°,λ48.00000°. Principal axes: T 2.2980,Plg59.0000°,Azm261.0000°; N -0.1710,Plg31.0000°,Azm87.0000° ; P -2.1300,Plg3.0000°,Azm356.0000° M_o2.21400×10^{16}
NEIC Event type fe. Felt [II] at Homer and Kodiak. Also felt at Anchor Point. After AEIC. Moment Tensor Solution. s26 Moment tensor: Scale 10^{16}Nm; M_{rr}1.24 $M_{\theta\theta}$-1.53 $M_{\phi\phi}$0.29 $M_{r\theta}$0.10 $M_{\theta\phi}$0.18 $M_{\phi r}$0.56 Best double couple: NP1:ϕ_s299.00000°,δ49.00000°,λ124.00000°. NP2: ϕ_s73.00000°,δ51.00000°,λ57.00000°. Principal axes: T 1.5100,Plg65.0000°,Azm277.0000° ; N 0.0400,Plg25.0000°,Azm95.0000°; P -1.5500,Plg1.0000°,Azm185.0000° M_o1.50000×10^{16}
ISC II 12 00 50 49.4–1.3 58.85N–.03 157.72W–.05 23–14 3.3b 83 1-47
ISCJB II 12 00 50 48.7–.63 58.90N–.02 157.75W–.06 24–6 3.1b **¶16032008**
NEIC II 12 00 50 49.4 58.87N 157.72W 22 3.7L
IDC II 12 00 51 04.5–6.2 58.98N 154.60W 0 3.7,3.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=20.8.
NEIC Event type fe. Felt at Dillingham. After AEIC.
IDC Error ellipse: s-maj=100.6km s-min=16.0km az=79.0.
ISC II 12 14 03 14.9–.89 57.71N–.05 155.40W–.04 76–7 84 0-45
ISCJB II 12 14 03 13.5–.34 57.72N–.03 155.37W–.06 91–4 3.0b **¶16362979**
NEIC II 12 14 03 15.8 57.71N 155.39W 72 3.1
IDC II 12 14 03 15.7–6.0 57.84N 155.33W 78–34 3.7s,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.9km az=137.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=59.1km s-min=41.1km az=54.0.
ISC II 24 02 13 39.0–.78 56.37N–.06 158.94W–.04 10 28 0-47
ISCJB II 24 02 13 38.5–.39 56.41N–.05 158.96W–.07 10 3.3b **¶16245284**
NEIC II 24 02 13 38.1 56.40N 158.94W 5 2.9L
IDC II 24 02 13 39.6–4.5 55.82N 158.49W 0 3.6,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.2km az=144.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=71.1km s-min=38.0km az=93.0.
ISC II 25 23 23 49.5–.79 57.35N–.07 157.93W–.06 154–8 3.9b 80 0-54
ISCJB II 25 23 23 48.8–.30 57.31N–.06 157.89W–.08 162–4 3.8b **¶16363029**
IDC II 25 23 23 48.9–2.6 57.71N 158.16W 119–35 3.9,3.7
NEIC II 25 23 23 51.5 57.27N 157.82W 151 3.5,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=3.3km az=142.9.
IDC Error ellipse: s-maj=32.8km s-min=24.5km az=164.0.
NEIC Event type se. After AEIC.
ISC III 08 08 41 44.3–1.4 54.6N–.20 162.76W–.09 75–11 3.7b 32 0-65
IDC III 08 08 41 35.2–2.9 54.19N 163.06W 0 3.8,3.8b **¶16362903**
NEIC III 08 08 41 41.3 54.23N 162.60W 12 3.6L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=71.1km s-min=20.1km az=164.0.
NEIC Event type se. After AEIC.
ISC III 25 16 50 21.0–.92 57.66N–.07 156.36W–.06 133–7 3.6b 47 0-55
IDC III 25 16 50 18.6–9.1 57.56N 156.20W 112–74 3.5,3.5L **¶16480868**
ISCJB III 25 16 50 20.4–.45 57.65N–.06 156.32W–.10 140–4 3.4b,3.5L
NEIC III 25 16 50 23.6 57.69N 156.38W 120 4.2b,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=104.5km s-min=29.2km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=5.6km az=140.9.
NEIC Event type se. After AEIC.
ISC IV 02 18 32 45.8–.79 56.23N–.05 157.03W–.03 32–5 4.9b,3.8s 515 1-160
IDC IV 02 18 32 41.0–.71 56.33N 157.30W 0 4.8,4.7 **¶16403936**
MOS IV 02 18 32 40.8–.99 56.27N 157.35W 10 5.2b,4.7
BJI IV 02 18 32 42.2 56.40N 157.37W 18 5.1b,5.0b
ISCJB IV 02 18 32 45.7–.31 56.30N–.02 157.22W–.03 42–2 4.8b,3.8s
NEIC IV 02 18 32 46.0 55.98N 156.90W 24 4.9b,4.7L
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=10.4km az=6.0.
MOS Error ellipse: s-maj=9.2km s-min=4.1km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=165.4.
NEIC Event type se. After AEIC.
ISC IV 03 06 32 02.8–.75 56.09N–.08 156.92W–.05 50 3.9b 43 1-84
ISCJB IV 03 06 32 01.2–.58 56.09N–.06 156.74W–.06 50 3.8b **¶16509618**
NEIC IV 03 06 32 02.4 56.12N 157.06W 4 3.4L
IDC IV 03 06 32 04.9–4.8 56.42N 157.00W 57–39 4.0L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.4km az=162.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=31.0km s-min=18.8km az=18.0.
ISC IV 09 17 56 15.1–.65 55.93N–.06 161.68W–.05 10 3.6b 33 0-73
ISCJB IV 09 17 56 13.5–.42 56.00N–.04 161.81W–.08 10 3.7b **¶16587449**
NEIC IV 09 17 56 16.3 55.88N 161.61W 16 3.2L
IDC IV 09 17 56 21.1–9.1 56.16N 161.68W 50–70 3.6,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=3.9km az=37.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=67.3km s-min=25.8km az=37.0.
ISC IV 16 07 06 05.0–.44 55.63N–.06 161.50W–.03 10 4.4b,3.5s 135 0-83
ISCJB IV 16 07 06 03.7–.19 55.76N–.02 161.57W–.04 10 4.4b,3.6s **¶16497327**
BJI IV 16 07 06 03.0 55.70N 161.50W 5 4.8b,4.5b
NEIC IV 16 07 06 06.2 55.56N 161.48W 9 4.4b,4.1L
IDC IV 16 07 06 12.0–3.8 55.93N 161.41W 61–34 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.3km az=135.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=26.7km s-min=11.2km az=15.0.
ISC IV 16 08 26 59.8–.61 55.65N–.06 161.53W–.04 10 3.7b 36 0-74
ISCJB IV 16 08 26 59.0–.37 55.74N–.04 161.58W–.06 10 3.8b,3.7s **¶16497324**
NEIC IV 16 08 27 00.2 55.60N 161.49W 11 3.5L,3.7s
IDC IV 16 08 27 06.5–6.2 55.95N 161.71W 60–52 3.7,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.3km az=141.5.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=46.7km s-min=19.7km az=30.0.
ISC IV 16 08 34 58.5–.60 55.66N–.06 161.53W–.04 10 3.8b 47 0-74
ISCJB IV 16 08 34 57.8–.31 55.74N–.04 161.57W–.06 10 3.8b **¶16497325**
NEIC IV 16 08 34 59.1 55.59N 161.50W 12 3.5L
IDC IV 16 08 35 08.0–6.6 56.02N 161.46W 78–52 3.7,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=2.8km az=140.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=54.0km s-min=19.8km az=25.0.
ISC IV 17 07 51 52.1–.56 55.60N–.05 161.52W–.03 16–3 4.6b,3.5s 558 0-153
MOS IV 17 07 51 50.3–1.1 55.71N 161.60W 15 4.6b,3.5s **¶16444281**
ISCJB IV 17 07 51 51.5–.44 55.66N–.02 161.51W–.03 23–3 4.5b,3.5s

NEIC IV 17 07 51 52.6 55.53N 161.48W 10 4.5b,4.3L
BJI IV 17 07 51 52.8 55.40N 162.35W 15 5.1b,4.7b
IDC IV 17 07 51 54.4–3.7 55.61N 161.59W 35–28 4.2,4.2
ISC Event type se.
MOS Error ellipse: s-maj=10.6km s-min=5.6km az=78.9.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=158.5.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=19.6km s-min=10.6km az=12.0.
ISC IV 18 06 39 57.0–.91 55.7N–.10 162.52W–.08 150 3.3b 31 1-49
ISCJB IV 18 06 39 56.1–.46 55.6N–.10 162.4W–.10 150 3.2b **¶16596707**
NEIC IV 18 06 39 57.9 55.35N 162.30W 152 3.1
IDC IV 18 06 40 00.5–19 55.82N 163.06W 188–102 3.2,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=4.7km az=150.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=232.0km s-min=60.7km az=77.0.
ISC IV 23 22 03 53.0–1.1 57.29N–.07 155.15W–.05 65–10 46 1-72
IDC IV 23 22 03 51.9–17 57.26N 155.31W 58–110 3.9L,3.5 **¶16577871**
ISCJB IV 23 22 03 52.2–.64 57.29N–.06 155.17W–.09 74–6 3.4b,3.5
NEIC IV 23 22 03 54.0 57.27N 155.14W 45 3.1L,3.5
ISC Event type se.
IDC Error ellipse: s-maj=178.2km s-min=49.9km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=6.4km az=147.4.
NEIC Event type se. After AEIC.
ISC IV 25 14 17 29.0–1.8 55.68N–.08 158.12W–.05 17–11 3.8b 64 1-84
IDC IV 25 14 17 25.8–1.6 55.71N 158.49W 0 4.0L,3.9 **¶16553314**
ISCJB IV 25 14 17 27.0–1.3 55.57N–.06 157.89W–.08 18–10 3.7b,3.5s
NEIC IV 25 14 17 28.5 55.66N 158.05W 13 3.8b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=44.5km s-min=26.3km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=4.0km az=145.4.
NEIC Event type se. After AEIC.
ISC IV 27 20 50 53.4–1.1 55.0N–.10 160.33W–.07 38 3.7b 32 0-81
ISCJB IV 27 20 50 52.7–.70 54.86N–.06 160.26W–.07 38 3.4b,3.1s **¶16631212**
NEIC IV 27 20 50 53.5 54.90N 160.39W 24 3.3L,3.1s
IDC IV 27 20 50 54.8–7.7 55.11N 160.35W 55–57 3.5,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=4.3km az=153.1.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=86.8km s-min=28.8km az=162.0.
ISC IV 30 03 16 53.9–.70 58.02N–.07 157.52W–.07 150 4.0b 60 2-80
ISCJB IV 30 03 16 51.9–.38 58.02N–.04 157.65W–.08 150 3.9b **¶16505583**
NEIC IV 30 03 16 55.0 57.74N 157.41W 172 3.6
IDC IV 30 03 16 56.3–.90 58.17N 157.51W 172–6 4.1,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.0km az=135.0.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=16.3km s-min=9.8km az=28.0.
ISC V 05 07 03 01.3–.90 56.38N–.08 157.81W–.06 88–9 3.4b 55 0-54
NEIC V 05 07 03 02.8 56.41N 157.81W 80 3.2 **¶16708883**
IDC V 05 07 03 05.7–9.3 56.89N 157.86W 115–70 3.4,3.4
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=71.1km s-min=26.9km az=54.0.
ISC V 05 14 13 01.2–.24 55.08N–.03 160.56W–.02 41–1 6.0b,5.2s 2321 0-164
MOS V 05 14 12 55.5–.88 55.15N 160.63W 10 6.2b,5.3s **¶16497743**
BJI V 05 14 12 58.6 55.11N 160.84W 35 5.9b,5.7b
GCMT V 05 14 13 01.6–.10 54.86N 160.22W 55–0 5.7W,5.7b
ISCJB V 05 14 13 01.6–.21 55.09N–.01 160.47W–.01 57–1 6.0b,5.2s
IDC V 05 14 13 01.9–1.3 55.12N 160.55W 44–11 5.6,5.5
NEIC V 05 14 13 01.6–.10 55.09N 160.54W 39 5.9b,5.8
NEIC V 05 14 13 01.0–.00 55.12N 160.57W 39 5.9b,5.8
ISC Event type fe.
MOS Error ellipse: s-maj=6.2km s-min=3.7km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c265; s134,c337;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95±.05 $M_{\theta\theta}$-3.21±.04; $M_{\phi\phi}$-0.73±.04; $M_{r\theta}$2.20±.04; $M_{\theta\phi}$-1.68±.03; $M_{\phi r}$1.06±.03; Best double couple: NP1:ϕ_s64.00000° ,δ61.00000°,λ91.00000°. NP2:ϕ_s243.00000°,δ29.00000°,λ89.00000°. Principal axes: T 4.6360,Plg74.0000°,Azm335.0000°; N 0.1140,Plg1.0000°,Azm243.0000° ; P -4.7450,Plg16.0000°,Azm153.0000° $M_0$4.69000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.4km az=7.9.
IDC Error ellipse: s-maj=13.1km s-min=7.7km az=15.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=174.0. Felt [V] at Sand Point. Also felt at Cold Bay and King Cove. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}2.92 $M_{\theta\theta}$-3.07 $M_{\phi\phi}$0.15 $M_{r\theta}$1.83 $M_{\theta\phi}$-1.87 $M_{\phi r}$1.21 Best double couple: NP1:ϕ_s254.00000°,δ29.00000°,λ104.00000°. NP2:ϕ_s59.00000° ,δ62.00000°,λ82.00000°. Principal axes: T 3.5900,Plg72.0000°,Azm311.0000° ; N 0.9700,Plg7.0000°,Azm62.0000°; P -4.5500,Plg16.0000°,Azm154.0000° $M_0$4.20000×10^{17}
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}3.22 $M_{\theta\theta}$-2.13 $M_{\phi\phi}$-1.08 $M_{r\theta}$2.48 $M_{\theta\phi}$-0.32 $M_{\phi r}$1.81 Best double couple: NP1:ϕ_s59.00000° ,δ69.00000°,λ84.00000°. NP2:ϕ_s254.00000°,δ21.00000°,λ104.00000°. Principal axes: T 4.6400,Plg65.0000°,Azm319.0000°; N -1.1000,Plg5.0000°,Azm61.0000° ; P -3.5400,Plg24.0000°,Azm153.0000° $M_0$4.20000×10^{17}
ISC V 05 15 41 10.9–1.5 54.9N–.10 160.17W–.07 47–12 3.9b 75 1-75
ISCJB V 05 15 41 11.7–.67 55.01N–.07 160.26W–.07 65–5 3.7b **¶16708931**
NEIC V 05 15 41 11.9 54.89N 160.34W 22 3.5L
IDC V 05 15 41 13.4–6.4 55.21N 160.55W 49–44 3.6,3.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=3.7km az=152.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=90.2km s-min=26.2km az=163.0.
ISC V 05 16 29 57.8–1.3 58.90N–.05 154.71W–.06 157–9 86 0-45
ISCJB V 05 16 29 58.0–.46 58.90N–.04 154.83W–.09 156–4 2.5b **¶16708940**
IDC V 05 16 30 01.7–8.6 59.10N 154.33W 118–90 3.6L,3.4
NEIC V 05 16 30 01.3 58.89N 154.80W 137 2.8,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.3km az=34.1.
IDC Error ellipse: s-maj=101.1km s-min=64.2km az=115.0.
NEIC Event type se. After AEIC.
ISC V 05 16 57 37.1–.20 55.04N–.03 160.49W–.02 43–1 6.0b,5.4s 2710 0-163
MOS V 05 16 57 31.4–.93 55.08N 160.62W 10 6.3b,5.4s **¶602607233**
BJI V 05 16 57 34.1 55.10N 160.40W 48 6.1b,5.9b
GCMT V 05 16 57 36.6–.10 54.79N 160.34W 56–0 5.8W,5.9b
NEIC V 05 16 57 36.6–.11 55.02N 160.69W 36 6.1b,5.8L
IDC V 05 16 57 37.5–.34 55.05N 160.58W 40–2 5.8,5.6b
ISCJB V 05 16 57 37.4–.21 55.03N–.01 160.46W–.01 53–1 6.0b,5.4s
NEIC V 05 16 57 38.0–.00 55.14N 160.62W 46 6.0b,5.4s
ISC Event type se.
MOS Error ellipse: s-maj=6.2km s-min=3.4km az=88.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c262; s137,c350;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}5.75±.07 $M_{\theta\theta}$-5.53±.07; $M_{\phi\phi}$-0.22±.06; $M_{r\theta}$3.27±.07; $M_{\theta\phi}$-2.80±.05; $M_{\phi r}$2.10±.06; Best double couple: NP1:ϕ_s61.00000° ,δ61.00000°,λ84.00000°. NP2:ϕ_s254.00000°,δ30.00000°,λ101.00000°. Principal axes: T 6.8970,Plg73.0000°,Azm316.0000°; N 0.9220,Plg5.0000°,Azm64.0000° ; P -7.8210,Plg16.0000°,Azm156.0000° $M_0$7.35900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=178.0. Items knocked from shelves [V] at Sand Point. Felt [III] at King Cove. Also felt at Cold Bay, False Pass and Perryville. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{17} Nm; M_{rr}5.31 $M_{\theta\theta}$-4.91 $M_{\phi\phi}$-0.40 $M_{r\theta}$2.74 $M_{\theta\phi}$-3.36 $M_{\phi r}$1.25 Best double couple: NP1: ϕ_s239.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_s64.00000°,δ58.00000°,λ93.00000°. Principal axes: T 6.0300,Plg77.0000°,Azm342.0000°; N 1.3900,Plg2.0000°,Azm243.0000° ; P -7.4100,Plg13.0000°,Azm152.0000° $M_0$6.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s240.00000°,δ25.00000°,λ90.00000°. NP2: ϕ_s60.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm330.0000° ; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm150.0000°
IDC Error ellipse: s-maj=11.1km s-min=6.7km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.4km az=10.1.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}4.82 $M_{\theta\theta}$-3.45 $M_{\phi\phi}$-1.37 $M_{r\theta}$3.57 $M_{\theta\phi}$0.15 $M_{\phi r}$2.88 Best double couple: NP1:ϕ_s64.00000° ,δ69.00000°,λ78.00000°. NP2:ϕ_s274.00000°,δ24.00000°,λ118.00000°. Principal axes: T 7.0600,Plg63.0000°,Azm314.0000°; N -2.0300,Plg10.0000°,Azm67.0000° ; P -5.0300,Plg23.0000°,Azm162.0000° $M_0$6.30000×10^{17}
ISC V 05 20 08 52.0–1.2 55.0N–.10 160.28W–.07 51–10 3.9b 74 0-84
IDC V 05 20 08 44.0–1.5 54.88N 160.76W 0 3.9,3.7 **¶16708958**
ISCJB V 05 20 08 51.4–.59 54.98N–.07 160.28W–.08 65–6 3.8b,3.7
NEIC V 05 20 08 51.4 54.90N 160.32W 25 3.7L,3.7
ISC Event type fe.
IDC Error ellipse: s-maj=31.3km s-min=21.6km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=3.3km az=150.8.
NEIC Event type fe. Felt at Sand Point. After AEIC.
ISC V 05 22 22 24.2–.73 54.95N–.07 160.33W–.05 45–5 4.2b 82 0-85
IDC V 05 22 22 23.8–1.1 55.01N 160.45W 39–7 4.2L,4.1 **¶16535744**
ISCJB V 05 22 22 24.4–.59 54.95N–.07 160.32W–.07 64–4 4.0b,4.1
NEIC V 05 22 22 24.2 54.88N 160.34W 30 3.8L,4.1
ISC Event type se.
IDC Error ellipse: s-maj=30.1km s-min=16.6km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=3.6km az=152.4.
NEIC Event type se. After AEIC.
ISC V 06 23 58 47.6–.43 55.04N–.07 160.38W–.04 38 4.4b,3.3s 221 0-153
IDC V 06 23 58 42.4–.98 55.17N 160.62W 0 4.4,4.3 **¶16498394**
ISCJB V 06 23 58 46.3–.18 54.97N–.03 160.36W–.03 38 4.4b,3.3s
NEIC V 06 23 58 49.6–.23 55.02N 160.44W 59–2 4.4b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=14.8km az=9.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=160.5.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=1.9km az=158.0.
ISC V 09 19 04 58.3–.28 54.94N–.04 160.33W–.03 32–1 5.1b,4.7s 882 0-156
MOS V 09 19 04 53.9–.96 55.11N 160.41W 10 5.4b,4.7s **¶16501970**
ISCJB V 09 19 04 57.6–.12 55.00N–.02 160.29W–.02 36 5.0b,4.7s
GCMT V 09 19 04 58.8–.40 54.68N 160.28W 52–2 5.1W,4.7s
NEIC V 09 19 04 58.8 54.86N 160.17W 21 5.1b,4.8L
IDC V 09 19 04 58.3–.58 54.98N 160.31W 33–3 4.9,4.7b
BJI V 09 19 04 58.6 55.37N 160.80W 37 5.3b,5.3s
ISC Event type fe.
MOS Error ellipse: s-maj=8.6km s-min=5.4km az=79.1.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=179.3.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c56; s38,c57; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.92±.25 $M_{\theta\theta}$-2.76±.20; $M_{\phi\phi}$-1.16±.20; $M_{r\theta}$2.58±.21; $M_{\theta\phi}$-1.61±.16; $M_{\phi r}$1.32±.17; Best double couple: NP1:ϕ_s61.00000°,δ64.00000° ,λ92.00000°. NP2:ϕ_s236.00000°,δ27.00000°,λ85.00000°. Principal axes: T 4.8950,Plg71.0000°,Azm336.0000°; N -0.1710,Plg2.0000°,Azm240.0000° ; P -4.7240,Plg18.0000°,Azm149.0000° $M_0$4.81000×10^{16}
NEIC Event type fe. Felt at Chignik, Cold Bay, Perryville and Sand Point. After AEIC.
IDC Error ellipse: s-maj=12.4km s-min=8.7km az=171.0.
ISC V 13 20 09 38.2–1.3 54.42N–.09 161.53W–.05 47–10 4.1b 130 1-85
IDC V 13 20 09 33.8–2.0 54.63N 162.05W 0 4.1,4.0b **¶16510413**
ISCJB V 13 20 09 37.2–.56 54.43N–.05 161.44W–.05 53–4 4.0b,4.0b
NEIC V 13 20 09 40.0 54.51N 161.56W 34 3.8L,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=53.2km s-min=15.3km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=3.2km az=156.4.
NEIC Event type se. After AEIC.
ISC V 14 16 27 04.5–.63 56.11N–.06 156.34W–.04 48 3.7b 60 1-83
ISCJB V 14 16 27 02.8–.53 56.03N–.05 156.24W–.07 48 3.7b **¶16709869**
NEIC V 14 16 27 04.3 56.05N 156.20W 22 3.3L
IDC V 14 16 27 05.1–4.5 56.36N 156.56W 45–44 3.8,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=3.4km az=148.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=32.5km s-min=17.0km az=9.0.
ISC V 15 04 08 47.1–1.6 54.9N–.10 160.30W–.07 47–11 4.0b 62 0-85
ISCJB V 15 04 08 47.2–.74 54.94N–.08 160.30W–.08 62–5 3.9b **¶16560069**
IDC V 15 04 08 47.8–6.0 55.17N 160.47W 42–43 3.9,3.8
NEIC V 15 04 08 48.5 54.93N 160.40W 12 3.6L,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=3.8km az=154.2.
IDC Error ellipse: s-maj=63.6km s-min=22.2km az=157.0.
NEIC Event type fe. Felt at Sand Point. After AEIC.
ISC V 16 11 32 21.9–1.4 54.74N–.10 160.21W–.07 51–11 4.0b,3.2s 66 1-96
ISCJB V 16 11 32 20.9–.75 54.76N–.07 160.18W–.07 61–5 4.0b,3.2s **¶16710012**
NEIC V 16 11 32 21.1 54.70N 160.32W 18 3.8L,3.2s
IDC V 16 11 32 23.4–6.1 54.88N 160.46W 59–54 4.3L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=4.3km az=157.2.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=27.0km s-min=18.3km az=177.0.
ISC V 24 14 56 23.2–1.5 55.0N–.10 160.29W–.07 51–10 3.9b 67 0-85
ISCJB V 24 14 56 23.1–.71 54.97N–.08 160.29W–.08 66–5 3.7b **¶16596600**
NEIC V 24 14 56 24.3–.66 54.96N 160.38W 60–4 4.4b,3.7L
IDC V 24 14 56 25.9–4.0 55.53N 160.87W 47–36 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=3.7km az=153.4.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=2.9km az=152.0.
IDC Error ellipse: s-maj=31.0km s-min=18.5km az=171.0.
ISC V 26 10 17 58.2–.79 58.53N–.05 156.17W–.05 179–6 3.5b 103 0-65
ISCJB V 26 10 17 57.3–.31 58.54N–.04 156.19W–.07 185–3 3.4b **¶16710964**
NEIC V 26 10 17 59.6 58.50N 156.12W 177 3.9b
IDC V 26 10 18 00.2–7.5 59.01N 156.27W 182–63 3.7,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=3.7km az=135.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=63.1km s-min=18.9km az=24.0.
ISC V 26 10 46 54.5–.77 54.31N–.07 161.48W–.05 23 4.2b 54 1-95
IDC V 26 10 46 51.0–1.7 54.30N 161.69W 0 4.1b,4.1 **¶16546020**
ISCJB V 26 10 46 53.0–.52 54.20N–.05 161.32W–.06 23 4.0b,4.1
NEIC V 26 10 46 56.5 54.36N 161.51W 36 3.7L,4.1
ISC Event type se.
IDC Error ellipse: s-maj=44.4km s-min=15.7km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=3.9km az=156.6.
NEIC Event type se. After AEIC.
ISC VI 01 20 50 30.3–1.1 58.31N–.06 155.84W–.06 140–7 47 0-26
ISCJB VI 01 20 50 28.4–.59 58.23N–.06 155.9W–.10 149–5 3.7b **¶16856051**
NEIC VI 01 20 50 30.2 58.29N 155.98W 143 2.7
IDC VI 01 20 50 30.2–9.0 58.50N 155.48W 109–90 3.7L,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=6.6km az=137.4.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=79.4km s-min=29.9km az=173.0.
ISC VI 03 06 04 59.7–.86 57.92N–.06 156.54W–.06 142–6 3.2b 72 0-54
ISCJB VI 03 06 04 58.5–.42 57.90N–.04 156.50W–.08 147–3 3.1b **¶16628203**
IDC VI 03 06 04 59.9–9.6 58.24N 156.64W 133–86 3.5,3.3
NEIC VI 03 06 05 00.5 57.87N 156.49W 140 3.2,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.3km az=136.8.
IDC Error ellipse: s-maj=71.9km s-min=22.0km az=23.0.
NEIC Event type se. After AEIC.
ISC VI 04 10 51 42.8–.51 56.20N–.07 161.47W–.06 200 4.0b 119 1-73
ISCJB VI 04 10 51 41.4–.21 56.29N–.04 161.56W–.06 200 3.9b **¶16577385**
NEIC VI 04 10 51 42.6 55.98N 161.21W 205 4.1b
IDC VI 04 10 51 42.5–4.6 56.43N 161.59W 190–38 4.0,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=2.7km az=138.3.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=32.3km s-min=11.9km az=34.0.
ISC VI 05 06 13 08.3–.60 54.18N–.06 162.60W–.03 32–3 4.7b,3.4s 400 1-85
NEIC VI 05 06 13 06.1 54.11N 162.54W 3 4.6b,4.2L **¶16557336**

MOS VI 05 06 13 06.5–.89 54.36N 162.67W 23 4.9b,4.2L
ISCJB VI 05 06 13 09.0–.36 54.24N–.03 162.54W–.03 47–2 4.5b,3.4s
IDC VI 05 06 13 09.6–3.8 54.35N 162.77W 33–29 4.4,4.3
ISC Event type se.
NEIC Event type se. After AEIC.
MOS Error ellipse: s-maj=11.1km s-min=4.8km az=86.4.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=2.6km az=169.1.
IDC Error ellipse: s-maj=18.8km s-min=9.7km az=178.0.
ISC VI 08 03 45 24.3–1.1 55.3N–.10 161.49W–.06 31–10 3.9b 42 0-84
NEIC VI 08 03 45 23.2 54.72N 161.17W 28 3.4L **¶16682670**
IDC VI 08 03 45 23.5–1.7 56.02N 161.83W 0 3.8,3.7
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=52.2km s-min=23.0km az=4.0.
ISC VI 09 15 37 32.7–1.8 54.33N–.09 161.34W–.05 24–12 4.0b 73 1-85
IDC VI 09 15 37 24.9–6.7 53.64N 161.11W 0 4.1b,3.9 **¶16856788**
NEIC VI 09 15 37 34.4 54.46N 161.48W 6 3.4L,3.9
ISC Event type se.
IDC Error ellipse: s-maj=162.8km s-min=30.8km az=148.0.
NEIC Event type se. After AEIC.
ISC VI 11 13 19 36.3–1.0 55.79N–.08 158.54W–.06 65–8 3.9b 64 1-89
ISCJB VI 11 13 19 35.4–.49 55.77N–.06 158.50W–.08 73–4 3.8b **¶16720899**
IDC VI 11 13 19 35.9–4.9 56.01N 158.59W 50–42 4.0L,3.9
NEIC VI 11 13 19 36.7 55.65N 158.37W 36 3.4L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=3.7km az=146.5.
IDC Error ellipse: s-maj=34.0km s-min=16.9km az=32.0.
NEIC Event type se. After AEIC.

(13) Kodiak Island region.

ISC I 19 02 48 40.1–.59 56.49N–.05 152.71W–.04 22 4.3b 97 1-84
ISCJB I 19 02 48 36.8–.48 56.39N–.04 152.47W–.05 22 4.1b **¶15938051**
IDC I 19 02 48 37.0–.81 56.47N 153.01W 0 4.2,4.0L
NEIC I 19 02 48 38.9 56.31N 152.62W 23 4.3b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=166.3.
IDC Error ellipse: s-maj=17.9km s-min=14.0km az=53.0.
NEIC Event type se. After AEIC.
ISC I 26 14 50 44.8–.72 56.23N–.06 153.19W–.05 22 3.9b 81 1-75
ISCJB I 26 14 50 41.3–.52 56.14N–.04 152.96W–.06 22 3.8b **¶16020121**
IDC I 26 14 50 42.2–.96 56.28N 153.26W 0 3.9,3.8
NEIC I 26 14 50 45.3 56.14N 153.19W 3 3.4L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.9km az=149.9.
IDC Error ellipse: s-maj=22.3km s-min=17.7km az=22.0.
NEIC Event type se. After AEIC.
ISC I 28 14 22 23.1–.98 56.72N–.07 152.93W–.06 22 3.9b 82 1-70
IDC I 28 14 22 15.9–3.1 55.99N 152.99W 0 4.1L,3.9 **¶16136053**
ISCJB I 28 14 22 20.7–.46 56.69N–.04 152.73W–.05 22 3.9b,3.9
NEIC I 28 14 22 24.2 56.80N 152.97W 10 3.3L,3.9
ISC Event type se.
IDC Error ellipse: s-maj=66.5km s-min=28.2km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.3km az=161.9.
NEIC Event type se. After AEIC.
ISC II 05 05 27 50.0–.41 57.64N–.04 153.57W–.03 47–3 4.5b,3.5s 542 0-151
MOS II 05 05 27 47.2–.95 57.70N 153.91W 35 4.9b,3.5s **¶16006258**
ISCJB II 05 05 27 49.6–.24 57.75N–.02 153.56W–.03 53–2 4.5b,3.6s
IDC II 05 05 27 50.0–.64 57.80N 153.71W 42–4 4.2,4.1
BJI II 05 05 27 49.0 58.50N 154.42W 25 5.1b,5.0s
NEIC II 05 05 27 50.3 57.59N 153.56W 43 4.5b,4.3W
ISC Event type fe.
MOS Error ellipse: s-maj=11.9km s-min=5.1km az=85.6.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=13.4.
IDC Error ellipse: s-maj=15.3km s-min=9.0km az=26.0.
NEIC Event type fe. Felt [II] at Kodiak. After AEIC. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.69 $M_{\theta\theta}$1.82 $M_{\phi\phi}$-0.13 $M_{r\theta}$2.54 $M_{\theta\phi}$-0.18 $M_{\phi r}$1.93 Best double couple: NP1:ϕ_s241.00000°,δ77.00000°,λ-106.00000°. NP2:ϕ_s114.00000°,δ20.00000°,λ-39.00000°. Principal axes: T 3.3400,Plg31.0000°,Azm344.0000°; N 0.5600,Plg16.0000°,Azm244.0000° ; P -3.8900,Plg55.0000°,Azm131.0000° $M_0$3.70000×10^{15}
ISC II 07 19 27 53.4–.57 58.52N–.03 152.49W–.04 59–5 3.9b,2.9s 112 1-84
ISCJB II 07 19 27 51.6–.30 58.50N–.03 152.40W–.05 69–3 3.9b,2.9s **¶16328771**
IDC II 07 19 27 52.7–.50 58.50N 152.79W 52–5 3.9,3.8
NEIC II 07 19 27 53.7 58.48N 152.47W 48 3.5L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=140.7.
IDC Error ellipse: s-maj=12.2km s-min=8.3km az=81.0.
NEIC Event type se. After AEIC.
ISC II 11 04 11 21.7–.93 58.60N–.04 152.11W–.04 51–11 3.4b 102 1-66
ISCJB II 11 04 11 20.1–.30 58.60N–.03 152.05W–.05 66–5 3.4b **¶16358580**
IDC II 11 04 11 20.9–1.3 58.59N 152.40W 44–17 3.8,3.8L
NEIC II 11 04 11 21.8 58.57N 152.12W 43 3.5L,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=143.9.
IDC Error ellipse: s-maj=19.7km s-min=14.9km az=106.0.
NEIC Event type se. After AEIC.
ISC III 01 15 12 50.6–.45 57.05N–.05 154.90W–.04 46–3 4.6b,3.9s 302 1-152
MOS III 01 15 12 48.6–.93 57.24N 155.26W 33 4.9b,3.9s **¶16168975**
ISCJB III 01 15 12 48.8–.33 56.95N–.03 154.74W–.04 56–2 4.5b,3.9s
IDC III 01 15 12 50.3–.69 57.11N 155.15W 44–4 4.2,4.1L
NEIC III 01 15 12 51.0 56.97N 154.77W 37 4.7b,4.6L
BJI III 01 15 12 51.1 57.70N 156.00W 39 5.0b,4.8s
ISC Event type se.
MOS Error ellipse: s-maj=11.6km s-min=4.9km az=85.3.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=2.7km az=150.0.
IDC Error ellipse: s-maj=17.6km s-min=10.0km az=10.0.
NEIC Event type se. After AEIC.
ISC III 30 09 19 54.0–.97 58.55N–.05 152.25W–.04 64–11 85 1-52
ISCJB III 30 09 19 53.6–.45 58.57N–.04 152.22W–.06 71–7 4.0b **¶16475808**
NEIC III 30 09 19 55.5 58.55N 152.26W 46 3.2L
IDC III 30 09 20 01.8–1.3 59.00N 151.74W 94–18 3.8,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.9km az=148.8.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=28.0km s-min=17.0km az=120.0.
ISC IV 02 22 52 37.1–1.4 56.0N–.10 151.93W–.08 10 3.8b 25 1-68
NEIC IV 02 22 52 33.1 55.79N 151.91W 10 3.1L **¶16487704**
IDC IV 02 22 52 34.8–3.2 55.67N 152.15W 0 4.1L,3.6
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=67.1km s-min=31.1km az=154.0.
ISC IV 02 23 14 23.6–.57 56.51N–.07 152.20W–.05 18 4.5b,3.6s 135 1-85
IDC IV 02 23 14 20.6–.97 56.36N 152.35W 0 4.3,4.1 **¶16404920**
NEIC IV 02 23 14 20.4 56.21N 151.89W 10 4.6b,4.1
ISCJB IV 02 23 14 22.1–.37 56.52N–.04 152.13W–.05 18 4.3b,3.7s
MOS IV 02 23 14 22.1–.81 56.60N 152.56W 11 4.7b,3.7s
BJI IV 02 23 14 26.0 57.00N 152.30W 36 4.9s,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=28.8km s-min=13.9km az=17.0.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=161.5.
MOS Error ellipse: s-maj=30.5km s-min=8.6km az=98.0.
ISC IV 03 02 12 05.8–.91 56.52N–.08 152.19W–.08 20 3.8b 29 1-80
NEIC IV 03 02 12 02.8 56.19N 151.85W 1 3.0L **¶16512206**
ISCJB IV 03 02 12 03.6–.80 56.45N–.08 152.2W–.10 20 3.6b
IDC IV 03 02 12 11.8–8.9 56.94N 152.66W 43–59 3.9L,3.7
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=10.2km az=15.1.
IDC Error ellipse: s-maj=78.4km s-min=28.7km az=160.0.
ISC IV 04 18 20 46.4–.46 58.98N–.03 153.17W–.03 71–3 4.6b 329 0-149
BJI IV 04 18 20 43.8 59.00N 153.30W 70 5.0s,4.9b **¶16407607**
MOS IV 04 18 20 45.3–.83 59.03N 153.40W 72 4.9b,4.9b
ISCJB IV 04 18 20 46.1–.19 58.98N–.02 153.14W–.04 83–1 4.6b,4.9b
IDC IV 04 18 20 47.8–1.9 59.19N 153.35W 75–15 4.5,4.4
NEIC IV 04 18 20 48.3 58.92N 153.13W 69 4.6b,4.5L
ISC Event type fe.
MOS Error ellipse: s-maj=12.5km s-min=5.0km az=84.1.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.5km az=143.7.
IDC Error ellipse: s-maj=16.1km s-min=10.5km az=178.0.
NEIC Event type fe. Felt [II] at Homer. Also felt at Anchor Point and Ninilchik. After AEIC.
ISC V 06 01 48 08.6–.47 58.15N–.04 152.51W–.04 35–4 4.3b 157 0-71
ISCJB V 06 01 48 07.5–.32 58.15N–.03 152.47W–.04 38–4 4.2b **¶16497776**
NEIC V 06 01 48 09.1 58.09N 152.55W 44 4.4b,3.8L
IDC V 06 01 48 09.2–1.3 58.39N 152.89W 47–8 3.6,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=155.9.
NEIC Event type fe. Felt [III] at Kodiak. After AEIC.
IDC Error ellipse: s-maj=22.7km s-min=19.1km az=46.0.
ISC V 21 07 42 45.3–.88 58.22N–.05 151.50W–.04 24 72 1-66
ISCJB V 21 07 42 43.7–.38 58.21N–.04 151.42W–.05 24 3.2b **¶16587339**
NEIC V 21 07 42 46.3 58.18N 151.52W 44 3.3L
IDC V 21 07 42 48.0–1.8 58.15N 150.63W 0 3.6,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=2.9km az=154.9.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=31.4km s-min=21.5km az=85.0.
ISC V 22 22 37 48.9–.74 56.32N–.08 153.15W–.06 22 3.8b 45 1-84
IDC V 22 22 37 44.9–1.1 56.17N 153.33W 0 4.0,3.8 **¶16710660**
ISCJB V 22 22 37 46.8–.54 56.25N–.05 153.08W–.08 22 3.8b,3.5s
NEIC V 22 22 37 49.7 56.16N 153.10W 6 3.6L,3.5s
ISC Event type fe.
IDC Error ellipse: s-maj=32.1km s-min=15.1km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=4.4.
NEIC Event type fe. Felt [II] at Kodiak. After AEIC.
ISC V 26 08 48 42.0–.45 56.34N–.06 154.19W–.04 24 4.8b,3.7s 311 1-152
MOS V 26 08 48 38.8–.99 56.28N 154.33W 16 5.0b,3.7s **¶16545961**
ISCJB V 26 08 48 39.5–.23 56.22N–.03 154.14W–.03 24 4.7b,3.7s
IDC V 26 08 48 40.6–3.9 56.09N 154.42W 21–24 4.5,4.5
NEIC V 26 08 48 45.6 56.27N 154.23W 13 4.8b,4.3L
ISC Event type se.
MOS Error ellipse: s-maj=13.1km s-min=5.1km az=87.2.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.1km az=149.4.
IDC Error ellipse: s-maj=17.6km s-min=11.5km az=177.0.
NEIC Event type se. After AEIC. Moment Tensor Solution. s35 Moment tensor: Scale 10^{15}Nm; M_{rr}-3.17 $M_{\theta\theta}$1.93 $M_{\phi\phi}$1.24 $M_{r\theta}$2.45 $M_{\theta\phi}$1.98 $M_{\phi r}$-0.21 Best double couple: NP1:ϕ_s253.00000° ,δ63.00000°,λ-66.00000°. NP2:ϕ_s28.00000°,δ36.00000°,λ-129.00000°. Principal axes: T 4.0500,Plg15.0000°,Azm326.0000°; N 0.2700,Plg21.0000°,Azm62.0000° ; P -4.3200,Plg64.0000°,Azm204.0000° $M_0$4.20000×10^{15}

(14) Kenai Peninsula.

ISC I 18 15 17 07.9–1.3 60.54N–.03 151.02W–.04 29–10 4.2b 57 0-65
ISCJB I 18 15 17 07.0–.33 60.55N–.02 151.07W–.05 24–4 4.1b **¶16009130**
NEIC I 18 15 17 07.4 60.57N 151.06W 10 3.4L
IDC I 18 15 17 10.2–1.3 60.44N 150.72W 59–21 3.8,3.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=21.1.
NEIC Event type fe. Felt [II] at Kenai and Soldotna. Also felt at Kasilof and Sterling. After AEIC.
IDC Error ellipse: s-maj=27.2km s-min=9.0km az=120.0.
ISC I 29 01 57 19.3–.75 60.51N–.03 151.45W–.03 66–6 3.9b 118 0-58
ISCJB I 29 01 57 18.1–.20 60.52N–.02 151.41W–.04 76–3 3.7b **¶16136087**
IDC I 29 01 57 18.9–1.3 60.59N 151.59W 63–12 3.9,3.9
NEIC I 29 01 57 20.1 60.50N 151.42W 54 3.6L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=36.9.
IDC Error ellipse: s-maj=15.3km s-min=9.2km az=105.0.
NEIC Event type fe. Felt at Homer and Soldotna. After AEIC.
ISC II 04 05 33 23.6–.55 60.74N–.03 150.32W–.03 53–5 4.6b,3.7s 756 0-148
BJI II 04 05 33 17.0 60.70N 150.30W 38 5.2b,5.0s **¶16002991**
ISCJB II 04 05 33 22.7–.15 60.81N–.01 150.40W–.02 57–1 4.6b,3.8s
MOS II 04 05 33 22.6–.98 60.83N 150.51W 61 4.8b,3.8s
IDC II 04 05 33 23.0–1.7 60.87N 150.47W 45–16 4.5,4.5L
NEIC II 04 05 33 23.9 60.73N 150.28W 41 4.7b,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=1.7.
MOS Error ellipse: s-maj=13.7km s-min=5.7km az=92.0.
IDC Error ellipse: s-maj=14.2km s-min=8.9km az=21.0.
NEIC Event type fe. Felt [IV] at Cooper Landing; [III] at Anchorage, Chugiak, Eagle River, Palmer and Sterling; [II] at Girdwood, Kenai, Moose Pass, Seward, Soldotna and Wasilla. Also felt at Elmendorf AFB, Fort Richardson, Indian and Willow. After AEIC. Moment Tensor Solution. s68 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.18 $M_{\theta\theta}$0.01 $M_{\phi\phi}$0.17 $M_{r\theta}$-1.71 $M_{\theta\phi}$-1.29 $M_{\phi r}$6.45 Best double couple: NP1:ϕ_s268.00000°,δ10.00000°,λ-168.00000°. NP2:ϕ_s166.00000° ,δ88.00000°,λ-81.00000°. Principal axes: T 7.0800,Plg42.0000°,Azm247.0000° ; N -0.6100,Plg9.0000°,Azm346.0000°; P -6.4800,Plg46.0000°,Azm86.0000° $M_0$6.80000×10^{15}
ISC II 04 23 56 36.1–1.0 59.18N–.04 151.50W–.04 57–10 100 0-66
ISCJB II 04 23 56 35.1–.29 59.18N–.03 151.47W–.05 71–5 3.1b **¶16032003**
NEIC II 04 23 56 37.0 59.18N 151.50W 51 3.2L
IDC II 04 23 56 40.6–8.9 59.49N 151.51W 91–72 3.1,3.0L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=139.8.
NEIC Event type fe. Felt at Homer. After AEIC.
IDC Error ellipse: s-maj=66.2km s-min=46.1km az=27.0.
ISC III 01 10 36 39.8–1.5 59.41N–.05 149.25W–.04 24–12 4.1b 110 1-63
IDC III 01 10 36 32.5–2.8 58.80N 149.32W 0 3.9,3.8 **¶16425217**
NEIC III 01 10 36 40.5 59.38N 149.33W 17 3.5L,3.8
ISC Event type se.
IDC Error ellipse: s-maj=52.5km s-min=31.6km az=155.0.
NEIC Event type se. After AEIC.
ISC III 06 05 17 35.8–.76 60.91N–.03 150.01W–.03 50–6 3.4b 108 0-65
ISCJB III 06 05 17 34.6–.20 60.91N–.02 149.98W–.04 59–3 3.5b **¶16196704**
IDC III 06 05 17 35.6–1.4 60.89N 150.39W 54–15 3.7,3.6
NEIC III 06 05 17 36.3 60.93N 150.01W 44 3.6L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=142.7.
IDC Error ellipse: s-maj=19.4km s-min=8.8km az=109.0.
NEIC Event type fe. Felt [III] at Eagle River and [II] at Anchorage. Also felt at Elmendorf AFB and Girdwood. After AEIC.
NEIC III 12 23 12 19.5 60.20N 150.93W 50 2.9L
¶602442287
NEIC Event type se. After AEIC.
ISC IV 03 20 58 29.7–.80 60.69N–.03 151.60W–.03 78–6 3.9b 87 0-69
ISCJB IV 03 20 58 28.5–.25 60.70N–.02 151.59W–.05 86–3 3.6b **¶16577644**
NEIC IV 03 20 58 30.6 60.70N 151.61W 70 3.4L
IDC IV 03 20 58 33.3–5.9 60.95N 151.42W 100–43 3.6,3.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=41.2.
NEIC Event type fe. Felt at Girdwood. After AEIC.
IDC Error ellipse: s-maj=52.4km s-min=37.2km az=167.0.
ISC IV 04 00 56 38.5–.71 60.73N–.03 150.46W–.03 50–6 3.4b 86 0-65
ISCJB IV 04 00 56 37.3–.26 60.73N–.02 150.45W–.04 63–4 3.4b **¶16506201**
NEIC IV 04 00 56 39.0 60.74N 150.49W 41 3.5L
IDC IV 04 00 56 39.5–1.1 60.90N 150.67W 60–8 3.4,3.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=154.0.
NEIC Event type fe. Felt [II] at Anchorage. Also felt at Sterling. After AEIC.
IDC Error ellipse: s-maj=17.9km s-min=16.5km az=144.0.
NEIC IV 13 01 16 01.2 60.37N 150.70W 44 2.2L
¶16587486
NEIC Event type fe. Felt at Soldotna. After AEIC.
ISC IV 27 07 45 31.9–1.3 60.84N–.03 149.28W–.03 36–2 95 0-58
ISCJB IV 27 07 45 31.2–.23 60.84N–.02 149.26W–.04 51–5 3.5b **¶16649467**
NEIC IV 27 07 45 32.5 60.85N 149.28W 24 3.4L

IDC IV 27 07 45 33.1–8.9 60.78N 149.19W 66–49 3.3,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=156.3.
NEIC Event type fe. Felt [II] at Anchorage and Girdwood. After AEIC.
IDC Error ellipse: s-maj=102.5km s-min=38.5km az=46.0.
ISC VI 16 19 06 05.0–.29 60.77N–.03 151.15W–.03 70–2 5.0b 786 0-171
BJI VI 16 19 06 02.7 60.73N 151.73W 64 5.2b,5.0b **¶16621492**
MOS VI 16 19 06 03.3–.91 60.89N 151.27W 69 5.2b,4.3s
ISCJB VI 16 19 06 03.6–.15 60.85N–.01 151.20W–.02 70–1 4.9b,4.3s
IDC VI 16 19 06 05.7–.53 60.88N 151.25W 77–3 4.7,4.5
NEIC VI 16 19 06 05.2 60.77N 151.08W 59 5.2L,5.1b
GCMT VI 16 19 06 05.2–.20 60.79N 151.23W 74–2 5.1W,5.1b
ISC Event type fe.
MOS Error ellipse: s-maj=9.9km s-min=5.2km az=93.5.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=13.4.
IDC Error ellipse: s-maj=11.5km s-min=8.2km az=172.0.
NEIC Event type fe. Felt [IV] at Anchorage, Cooper Landing, Ninilchik, Soldotna and Sterling. Felt widely in the Kenai Peninsula-Cook Inlet area. After AEIC. Moment Tensor Solution. s58 Moment tensor: Scale 10^{16}Nm; M_{rr}0.17 $M_{\theta\theta}$-3.62 $M_{\phi\phi}$3.45 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.31 Best double couple: NP1:ϕ_s312.00000°,δ71.00000°,λ171.00000°. NP2:ϕ_s45.00000° ,δ81.00000°,λ19.00000°. Principal axes: T 3.9100,Plg19.0000°,Azm270.0000° ; N -0.2300,Plg69.0000°,Azm69.0000°; P -3.6800,Plg7.0000°,Azm177.0000° $M_0$3.80000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c77; s88,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.66±.14 $M_{\theta\theta}$-5.01±.15; $M_{\phi\phi}$4.35±.13; $M_{r\theta}$-0.12±.12; $M_{\theta\phi}$-0.65±.12; $M_{\phi r}$2.08±.09; Best double couple: NP1:ϕ_s44.00000°,δ73.00000° ,λ18.00000°. NP2:ϕ_s308.00000°,δ73.00000°,λ163.00000°. Principal axes: T 5.3250,Plg24.0000°,Azm266.0000°; N -0.2730,Plg66.0000°,Azm85.0000° ; P -5.0550,Plg0.0000°,Azm176.0000° $M_0$5.19000×10^{16}

(15) Gulf of Alaska.

ISC I 13 04 02 30.6–.95 55.45N–.08 150.51W–.05 10 3.5b 73 2-69
ISCJB I 13 04 02 27.1–.53 55.29N–.04 150.66W–.04 10 3.5b **¶15968918**
IDC I 13 04 02 29.3–1.4 55.33N 150.24W 0 3.9,3.7
NEIC I 13 04 02 32.6 55.20N 150.67W 4 3.6L,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.3km az=2.2.
IDC Error ellipse: s-maj=34.3km s-min=18.3km az=35.0.
NEIC Event type se. After AEIC.
ISC I 13 04 14 52.1–1.3 58.14N–.07 142.88W–.04 10 65 2-8
ISCJB I 13 04 14 52.2–.53 58.11N–.04 142.80W–.07 10 **¶15933564**
PGC I 13 04 14 57.1–2.2 58.20N 142.42W 15 2.9L
NEIC I 13 04 14 58.9 58.16N 142.82W 24 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=41.6.
PGC Event type ke. 208km Wsw of Yakutat, Ak Gulf Of Alaska.
NEIC Event type se. After AEIC.
ISC VI 02 11 31 45.2–1.0 58.02N–.05 143.13W–.05 25 121 2-11
PGC VI 02 11 31 47.1–.68 58.15N 143.05W 10 3.1L **¶16555882**
NEIC VI 02 11 31 49.7 58.03N 143.22W 7 3.1L
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 242km Wsw of Yakutat, Ak Gulf Of Alaska.
NEIC Event type se. After AEIC.

(16) South of Aleutian Islands.

ISC IV 10 11 53 21.4–3.5 51.8N–.10 166.68W–.08 1–24 3.3b 31 2-51
NEIC IV 10 11 53 26.0 51.85N 166.48W 29 3.0L **¶16447697**
IDC IV 10 11 53 28.6–18 52.01N 165.27W 0 3.7,3.3
ISC Event type se.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=336.0km s-min=40.4km az=79.0.
ISC IV 29 09 23 46.6–.89 52.20N–.10 165.38W–.07 35 4.2s,4.0b 28 2-100
IDC IV 29 09 23 41.9–1.3 52.28N 165.31W 0 4.0,4.0 **¶16649595**
NEIC IV 29 09 23 43.4–.82 52.22N 165.40W 10 3.8b,3.7L
ISCJB IV 29 09 23 44.7–.63 52.17N–.06 165.35W–.09 33 4.1s,3.9b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 08 21 45 42.8–1.6 50.8N–.20 171.79W–.06 35 14 2-77
ISCJB V 08 21 45 40.6–1.3 50.7N–.10 171.75W–.09 33 3.4s,3.3b **¶602607278**
NEIC V 08 21 45 41.1 50.70N 171.87W 10 3.0L,3.3b
IDC V 08 21 46 06.1–31 51.27N 165.88W 0 3.7,3.7L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=6.9km az=12.7.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=604.8km s-min=50.1km az=82.0.
ISC V 16 22 15 17.5–.95 52.13N–.08 169.86E–.07 35 3.8b 54 4-78
IDC V 16 22 15 12.0–1.1 52.23N 169.76E 0 4.0,3.8 **¶16523244**
ISCJB V 16 22 15 16.3–.67 52.27N–.07 170.03E–.08 33 3.8b,3.8
KRSC V 16 22 15 19.9–1.5 52.35N 169.04E 8–42 4.1L,3.8
MOS V 16 22 15 19.9–2.3 52.35N 169.04E 7 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=32.8km s-min=20.4km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=15.9.
KRSC Event type se.
MOS Error ellipse: s-maj=16.5km s-min=9.6km az=41.1.

(17) South of Alaska.

ISC I 02 21 38 10.1–.93 54.92N–.07 158.01W–.04 35 3.3b 42 1-67
IDC I 02 21 38 05.4–1.6 54.84N 158.30W 0 4.1L,3.7 **¶16021234**
ISCJB I 02 21 38 08.2–.62 54.86N–.05 158.00W–.05 33 3.3b,3.7
NEIC I 02 21 38 08.7 54.89N 158.04W 42 3.5L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=36.2km s-min=24.2km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.4km az=160.4.
NEIC Event type se. After AEIC.
ISC I 12 12 27 37.6–.54 54.94N–.06 158.28W–.04 37–1 4.5b,3.8s 151 1-103
IDC I 12 12 27 32.3–.56 55.04N 158.55W 0 4.3,4.3 **¶15928084**
NEIC I 12 12 27 34.8 54.83N 158.16W 25 4.5b,4.2L
MOS I 12 12 27 35.8–.94 55.11N 158.47W 33 4.7b,4.2L
ISCJB I 12 12 27 36.4–.48 54.98N–.04 158.33W–.05 43–3 4.4b,4.0s
BJI I 12 12 27 42.3 55.65N 159.59W 50 5.1b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=10.0km az=173.0.
NEIC Event type se. After AEIC.
MOS Error ellipse: s-maj=15.4km s-min=7.8km az=98.8.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.1km az=154.0.
NEIC I 12 12 28 41.1 54.93N 158.20W 32 3.6L
¶601989233
NEIC Event type se. After AEIC.
ISC I 20 11 37 56.5–1.6 53.4N–.10 159.73W–.06 35 3.6b 28 2-47
IDC I 20 11 37 53.8–1.6 53.42N 160.01W 0 4.0,3.9L **¶16151935**
NEIC I 20 11 37 54.8 53.33N 159.79W 26 3.6L,3.9L
ISCJB I 20 11 37 55.8–.74 53.35N–.06 159.85W–.09 33 3.6b,3.9L
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
NEIC I 27 18 33 01.8 54.51N 153.20W 25 3.7L
¶601990192
NEIC Event type se. After AEIC.
ISC II 24 00 28 51.2–1.8 54.8N–.10 158.93W–.06 43–13 3.9b 58 1-85
IDC II 24 00 28 46.0–1.5 54.88N 159.44W 0 3.8,3.7 **¶16398823**
ISCJB II 24 00 28 48.9–.81 54.70N–.07 158.86W–.07 45–6 3.7b,3.7
NEIC II 24 00 28 49.9 54.82N 159.10W 1 3.6L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=37.6km s-min=20.4km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=4.1km az=156.0.
NEIC Event type se. After AEIC.
ISC II 28 16 17 20.4–.64 53.18N–.08 149.82W–.06 35 4.0b,3.7s 125 5-87
BJI II 28 16 17 12.8 53.00N 150.00W 10 5.1b,4.8s **¶16168956**
IDC II 28 16 17 14.6–.75 52.89N 149.85W 0 4.4L,4.2
NEIC II 28 16 17 16.3–.24 53.02N 149.84W 10 4.5L,4.4b
ISCJB II 28 16 17 18.2–.38 53.21N–.03 149.90W–.04 33 4.0b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 09 11 58.3–1.3 53.36N–.09 161.34W–.06 24 3.5b 27 2-48
IDC III 26 09 11 55.6–1.9 53.26N 161.05W 0 3.6,3.3 **¶16480993**
ISCJB III 26 09 11 56.0–.92 53.31N–.06 161.32W–.07 24 3.4b,3.3
NEIC III 26 09 11 57.2 53.34N 161.43W 26 3.2L,3.3
ISC Event type se.
IDC Error ellipse: s-maj=54.6km s-min=27.6km az=179.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=4.5.
NEIC Event type se. After AEIC.
IDC IV 03 04 12 24.9–3.8 55.73N 152.52W 0 3.5L,3.4
¶17199609
IDC Error ellipse: s-maj=70.1km s-min=36.7km az=156.0.
ISC V 12 15 43 38.9–.47 54.93N–.06 156.93W–.04 24 4.4b,3.3s 189 2-85
IDC V 12 15 43 35.1–.79 54.80N 157.08W 0 4.5L,4.3 **¶16509465**
NEIC V 12 15 43 36.4 54.62N 156.72W 21 4.5b,3.9L
ISCJB V 12 15 43 37.2–.28 55.02N–.03 156.91W–.04 24 4.3b,3.5s
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se.
ISC V 12 15 47 21.4–.63 55.00N–.07 157.02W–.04 24 4.0b 115 2-83
IDC V 12 15 47 17.7–1.2 54.81N 157.07W 0 4.0,4.0L **¶16510404**
ISCJB V 12 15 47 19.0–.45 54.93N–.05 156.89W–.05 24 3.9b,4.0L
NEIC V 12 15 47 19.5 54.62N 156.74W 26 4.2b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=17.2km az=3.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=2.8km az=154.9.
NEIC Event type se. After AEIC.
NEIC V 12 16 02 53.0 54.54N 156.64W 16 3.5L
¶16577282
NEIC Event type se. After AEIC.
ISC VI 15 03 46 37.0–.72 54.51N–.08 153.06W–.07 35 3.9b 55 3-86
IDC VI 15 03 46 30.2–.97 53.86N 153.30W 0 4.7L,4.1 **¶17206154**
NEIC VI 15 03 46 34.5 54.15N 153.57W 12 4.4L,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=16.7km az=6.0.
NEIC Event type se. After AEIC.
ISC VI 28 22 03 11.5–.95 55.80N–.09 154.06W–.06 35 3.8b 59 1-67
IDC VI 28 22 03 04.6–1.5 55.23N 154.33W 0 3.8,3.8L **¶16731732**
ISCJB VI 28 22 03 08.1–.67 55.68N–.06 153.97W–.07 33 3.7b,3.8L
NEIC VI 28 22 03 11.1–.52 55.77N 154.13W 35 3.4L,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=32.8km s-min=23.1km az=11.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=4.2km az=152.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=3.6km az=155.0.
ISC VI 29 04 27 21.4–.30 53.56N–.05 159.60W–.03 35 4.9b,3.4s 1018 2-155
IDC VI 29 04 27 16.2–.43 53.36N 159.71W 0 4.8,4.8 **¶16685763**
BJI VI 29 04 27 17.0 53.68N 159.89W 13 5.0b,4.9b
MOS VI 29 04 27 18.7–1.1 53.66N 159.59W 19 5.1b,4.9b
ISCJB VI 29 04 27 20.4–.12 53.63N–.02 159.56W–.02 33 4.8b,3.7s
NEIC VI 29 04 27 20.2 53.56N 159.83W 23 4.9b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=8.9km az=174.0.
MOS Error ellipse: s-maj=8.0km s-min=5.0km az=87.1.
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=1.7km az=23.7.
NEIC Event type se. After AEIC.
ISC VI 30 06 44 46.4–1.1 55.8N–.10 155.20W–.06 24 3.8b 60 2-67
ISCJB VI 30 06 44 43.0–.69 55.59N–.06 155.03W–.07 24 3.6b **¶16731835**
NEIC VI 30 06 44 48.3 55.70N 155.22W 1 3.5L
IDC VI 30 06 44 52.4–8.7 56.26N 155.37W 42–65 4.1L,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=3.8km az=149.5.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=65.3km s-min=44.5km az=6.0.

SEISMIC REGION 2.
Eastern Alaska to Vancouver Island.

(18) Southern Yukon Territory.

PGC I 27 19 27 48.8–.03 64.35N 134.69W 15 3.5L
¶15978000
PGC Event type ke. 231km east of Dawson, Yt Southern Yukon Territory, Canada.
ISC II 26 11 08 26.9–1.1 61.61N–.02 140.52W–.02 2–7 3.6b,3.2s 142 0-87
IDC II 26 11 08 26.9–.63 61.67N 140.46W 0 3.9,3.8L **¶16159912**
NEIC II 26 11 08 27.6 61.60N 140.53W 1 4.1L,4.1W
PGC II 26 11 08 27.6–.03 61.60N 140.53W 1 4.2L,4.1W
ISC Event type ke.
IDC Error ellipse: s-maj=13.1km s-min=8.1km az=42.0.
NEIC Event type se. After OTT. Moment Tensor Solution. $M_0$1.90000×10^{15}
PGC Event type ke. 186km Wnw of Haines Jct., Yt Southern Yukon Territory, Canada.
PGC IV 21 04 51 47.0–.30 64.96N 139.36W 1 3.8L
¶16451670
PGC Event type ke. 99km northeast of Dawson, Yt Southern Yukon Territory, Canada.
ISC IV 22 00 06 02.2–.40 63.95N–.03 130.97W–.03 9 4.2b,3.3s 222 4-93
IDC IV 22 00 05 59.5–.66 64.14N 131.85W 0 4.5L,4.0 **¶16531761**
ISCJB IV 22 00 06 00.2–.18 63.97N–.02 131.05W–.04 9 4.0b,3.3s
BJI IV 22 00 06 01.0 64.00N 131.00W 13 4.0b,3.3s
NEIC IV 22 00 06 02.1–2.0 63.96N 131.00W 6–14 4.2b,4.1W
PGC IV 22 00 06 04.3–.05 63.88N 131.39W 10 4.9L,4.1W
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.0km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=15.3.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=207.0. Moment Tensor Solution. $M_0$1.60000×10^{15} Moment Tensor Solution. s29 Moment tensor: Scale 10^{15}Nm; M_{rr}0.00 $M_{\theta\theta}$-1.80 $M_{\phi\phi}$1.80 $M_{r\theta}$-0.32 $M_{\theta\phi}$1.04 $M_{\phi r}$-0.18 Best double couple: NP1:ϕ_s150.00000° ,δ80.00000°,λ-180.00000°. NP2:ϕ_s60.00000°,δ90.00000°,λ-10.00000°. Principal axes: T 2.1100,Plg7.0000°,Azm105.0000°; N 0.0000,Plg80.0000°,Azm240.0000° ; P -2.1100,Plg7.0000°,Azm15.0000° $M_0$2.10000×10^{15}
PGC Event type ke. 273km Wsw of Norman Wells, Nt Southern Yukon Territory, Canada.
ISC V 05 23 03 09.3–1.0 61.41N–.02 140.01W–.02 6–8 128 0-40
PGC V 05 23 03 09.8 61.42N 140.01W 1 3.1L **¶16497771**
NEIC V 05 23 03 09.0 61.41N 140.01W 1 3.1L,3.0L
IDC V 05 23 03 10.6–1.0 61.52N 140.05W 0 3.4,3.2
ISC Event type ke.
PGC Event type ke. 152km Wnw of Haines Jct., Yt Southern Yukon Territory, Canada.
NEIC Event type se. After OTT.
IDC Error ellipse: s-maj=17.2km s-min=8.5km az=40.0.
PGC VI 10 01 58 38.2–.02 60.08N 138.02W 5 2.1L
¶16601800
PGC Event type ke. 78km southwest of Haines Jct., Yt Southern Yukon Territory, Canada.

(19) Southeastern Alaska.

ISC I 01 07 29 03.7–1.4 58.19N–.04 137.77W–.03 6–10 96 1-10
PGC I 01 07 29 05.8–1.8 58.30N 137.85W 13–0 3.8L **¶601724091**
NEIC I 01 07 29 06.6 58.28N 137.96W 12 3.8L,3.6L
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 145km Ese of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
PGC I 01 18 16 24.0–.30 60.05N 139.48W 5 2.1L
¶601724097
PGC Event type ke. 84km northeast of Yakutat, Ak Southeastern Alaska.
PGC I 01 21 56 51.7–2.7 60.04N 140.44W 16–0 2.1L
¶601724100
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 99km northwest of Yakutat, Ak Southeastern Alaska.

PGC I 02 00 23 16.0–.01 59.77N 139.33W 10 2.2L
¶601724101
PGC Event type ke. 54km Nne of Yakutat, Ak Southeastern Alaska.
PGC I 07 21 39 17.6–2.6 58.68N 138.59W 30 2.2L
¶601724124
PGC Event type ke. 85km southeast of Yakutat, Ak Southeastern Alaska.
ISC I 08 19 33 41.0–1.0 59.38N–.03 135.04W–.02 0–7 4.0b,3.4s 202 0-91
BJI I 08 19 33 40.0 59.30N 135.10W 10 4.7b,4.4b **¶15917517**
NEIC I 08 19 33 40.5 59.36N 135.15W 4 4.2W,3.9b
IDC I 08 19 33 41.4–.51 59.43N 135.07W 0 4.1,4.1L
PGC I 08 19 33 41.1–.01 59.33N 135.18W 1 4.2W,4.1L
ISC Event type fe.
NEIC Event type fe. Felt [II] at Haines and Juneau. Also felt at Skagway. After AEIC. Moment Tensor Solution. $M_0$6.10000×10^{14} Moment Tensor Solution. $M_0$2.40000×10^{15}
IDC Error ellipse: s-maj=11.9km s-min=6.0km az=43.0.
PGC Event type ke. 24km Nne of Haines, Ak Southeastern Alaska.
ISC I 13 04 48 37.8–.78 59.03N–.03 136.03W–.03 10 81 0-9
NEIC I 13 04 48 38.1 59.05N 136.01W 10 3.3L,3.2L **¶15933566**
PGC I 13 04 48 38.8–.41 59.05N 136.06W 1 3.3L,3.2L
ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. 48km west of Haines, Ak Southeastern Alaska.
PGC I 13 07 09 30.6–.35 59.06N 136.10W 1 2.7L
NEIC I 13 07 09 30.6 59.06N 136.10W 1 2.7L **¶15933567**
PGC Event type ke. 49km west of Haines, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
PGC I 14 15 29 31.1–.53 58.86N 136.87W 1 2.3L
¶15954777
PGC Event type ke. 97km west of Haines, Ak Southeastern Alaska.
PGC I 26 03 27 20.1–.01 59.59N 138.82W 1 2.4L
¶15968993
PGC Event type ke. 50km Ene of Yakutat, Ak Southeastern Alaska.
PGC I 26 11 10 55.9–.31 59.60N 138.83W 1 2.1L
¶15968997
PGC Event type ke. 50km Ene of Yakutat, Ak Southeastern Alaska.
PGC I 31 11 21 13.7–.48 59.13N 137.86W 1 2.4L
¶15995130
PGC Event type ke. 94km east of Yakutat, Ak Southeastern Alaska.
ISC I 31 16 45 44.3–.84 60.06N–.03 140.79W–.02 11–5 4.0b 132 0-88
PGC I 31 16 45 44.0–.04 60.01N 140.98W 1 3.8L **¶15990276**
IDC I 31 16 45 43.0–.89 60.08N 140.80W 0 3.9b,3.9
ISCJB I 31 16 45 44.5–.36 60.00N–.03 140.84W–.03 22–3 3.9b,3.4s
NEIC I 31 16 45 44.4 60.10N 140.71W 12 3.8L,3.7L
ISC Event type ke.
PGC Event type ke. 115km Wnw of Yakutat, Ak Southeastern Alaska.
IDC Error ellipse: s-maj=17.5km s-min=10.2km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.8km az=8.1.
NEIC Event type se. After AEIC.
ISC I 31 18 44 55.1–.99 60.04N–.04 140.84W–.02 9–6 71 0-8
PGC I 31 18 44 54.6–.99 59.99N 140.96W 5 2.8L **¶15996056**
NEIC I 31 18 44 55.4 60.09N 140.74W 14 2.9L,2.8L
ISC Event type ke.
PGC Event type ke. 113km Wnw of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
PGC II 01 04 56 08.4–.99 58.79N 137.65W 5 2.7L
NEIC II 01 04 56 08.4 58.79N 137.65W 5 2.7L **¶15996057**
PGC Event type ke. 119km Ese of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
PGC II 02 22 53 37.5 59.89N 138.21W 1 2.0L
¶16002360
PGC Event type ke. 98km Ene of Yakutat, Ak Southeastern Alaska.
PGC II 03 08 33 58.1–.01 60.14N 139.47W 1 2.3L
¶601724201
PGC Event type ke. 94km northeast of Yakutat, Ak Southeastern Alaska.
PGC II 03 13 28 04.8–7.7 58.52N 137.02W 5 2.6L
NEIC II 03 13 28 04.8 58.52N 137.02W 5 2.6L **¶16852111**
PGC Event type ke. Error ellipse: s-maj=3.3km s-min=0.6km az=-1.0. 122km Wsw of Haines, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
PGC II 03 16 43 00.3–4.2 58.54N 136.90W 10 2.6L
NEIC II 03 16 43 00.3 58.54N 136.90W 10 2.6L **¶16852112**
PGC Event type ke. 115km Wsw of Haines, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
ISC II 06 03 40 35.3–.82 56.19N–.05 135.85W–.06 10 92 2-57
ISCJB II 06 03 40 33.3–.31 56.20N–.03 135.74W–.06 10 3.4b **¶16358541**
IDC II 06 03 40 35.7–1.2 56.24N 135.71W 0 3.9,3.7
NEIC II 06 03 40 36.0 56.17N 135.75W 10 3.5L,3.4L
PGC II 06 03 40 36.0–.02 56.17N 135.75W 10 3.5L,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=2.4km az=145.7.
IDC Error ellipse: s-maj=17.1km s-min=12.8km az=50.0.
NEIC Event type se. After OTT.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 101km Ssw of Sitka, Ak Southeastern Alaska.
PGC II 15 17 02 27.5–1.1 59.95N 140.80W 1 2.5L
¶16029598
PGC Event type ke. 104km Wnw of Yakutat, Ak Southeastern Alaska.
ISC III 03 23 08 32.1–.96 59.02N–.05 135.94W–.04 10 53 0-5
PGC III 03 23 08 31.9–.56 59.01N 135.90W 1 2.9L **¶16194025**
NEIC III 03 23 08 32.5 59.07N 135.97W 6 2.9L,2.8L
ISCJB III 03 23 08 32.3–.54 59.11N–.03 135.95W–.06 10 2.9L,2.8L
ISC Event type ke.
PGC Event type ke. 39km west of Haines, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
ISCJB Event type ke.
ISC III 05 15 33 39.5–3.5 59.84N–.07 141.55W–.04 2–25 48 1-4
NEIC III 05 15 33 41.9 59.89N 141.49W 8 2.6L,2.4L **¶16298978**
PGC III 05 15 33 41.5–.08 59.88N 141.50W 5–2 2.6L,2.4L
ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0. 130km Wnw of Yakutat, Ak Southeastern Alaska.
ISC III 17 17 05 16.6–2.7 58.33N–.04 137.76W–.03 16–17 4.2b,3.5s 142 1-148
PGC III 17 17 05 16.2–1.9 58.39N 137.77W 1 4.4W,4.3L **¶16331400**
NEIC III 17 17 05 17.2 58.27N 137.81W 19 4.4W,4.2L
IDC III 17 17 05 19.3–4.0 58.62N 137.70W 26–28 4.0,4.0
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 140km Ese of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC. Moment Tensor Solution. $M_0$5.10000×10^{15}
IDC Error ellipse: s-maj=23.1km s-min=10.8km az=41.0.
PGC III 27 23 32 20.4–2.9 58.46N 137.30W 1 2.7L
NEIC III 27 23 32 20.4 58.46N 137.30W 1 2.7L **¶16374419**
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 139km Wsw of Haines, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
PGC IV 06 01 28 00.3–70 57.77N 133.36W 1 2.9L
NEIC IV 06 01 28 00.3 57.77N 133.36W 1 2.9L **¶16413277**
PGC Event type ke. Error ellipse: s-maj=8.9km s-min=1.8km az=-1.0. 86km Ese of Juneau, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
ISC V 04 09 39 57.3–2.2 55.07N–.04 134.74W–.08 4–13 35 1-7
NEIC V 04 09 39 58.1 55.10N 134.42W 8 3.6L **¶16493779**
PGC V 04 09 39 59.5–18 54.99N 134.68W 20 3.6L
ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0. 195km Wnw of Masset, Bc Haida Gwaii Region.
ISC V 19 20 26 34.4–1.5 59.92N–.05 141.56W–.02 8–10 64 0-3
ISCJB V 19 20 26 32.8–.82 59.81N–.04 141.49W–.05 12–5 **¶16531776**
PGC V 19 20 26 33.5–1.2 59.84N 141.64W 1 3.0L
NEIC V 19 20 26 35.3 59.95N 141.52W 8 3.0L,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=1.0.
PGC Event type ke. 135km Wnw of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
PGC V 20 19 02 34.9–.15 55.35N 134.71W 20 2.7L
NEIC V 20 19 02 34.9 55.35N 134.71W 20 2.7L **¶16539396**
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=2.5km az=-1.0. 192km Sse of Sitka, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
PGC V 28 13 27 55.0–.04 59.42N 135.82W 3–0 2.2L
¶601735151
PGC Event type ke. 47km Wnw of Haines, Ak Southeastern Alaska.
PGC VI 02 10 37 07.5–.31 60.55N 141.66W 5 2.0L
¶16555881
PGC Event type ke. 185km Wnw of Yakutat, Ak Southeastern Alaska.
PGC VI 04 17 16 57.9 60.55N 139.20W 5–0 2.1L
¶601729318
PGC Event type ke. 93km west of Haines Jct., Yt Southeastern Alaska.
ISC VI 07 05 45 17.6–1.3 58.37N–.05 133.42W–.03 3–11 49 1-22
IDC VI 07 05 45 17.3–1.6 58.21N 133.51W 0 3.4,3.2 **¶16856553**
PGC VI 07 05 45 19.4–.42 58.32N 133.51W 1 3.3L,3.2
NEIC VI 07 05 45 19.0 58.32N 133.51W 1 3.3L,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=11.8km az=21.0.
PGC Event type ke. 53km east of Juneau, Ak Southeastern Alaska.
NEIC Event type se. After OTT.
ISC VI 11 06 58 12.9–.00 60.00N–.03 140.70W–.03 10–7 69 0-6
PGC VI 11 06 58 12.9–1.7 60.01N 140.65W 13–0 3.4L **¶16682678**
NEIC VI 11 06 58 13.7 60.04N 140.77W 3 3.4L,3.2L
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 103km Wnw of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
ISC VI 11 07 36 34.7–1.1 59.99N–.04 140.80W–.03 9–7 61 0-6
PGC VI 11 07 36 33.8–.35 59.91N 140.89W 0–0 2.8L **¶16682679**
NEIC VI 11 07 36 34.8 60.03N 140.76W 3 2.8L,2.8L
ISC Event type ke.
PGC Event type ke. 104km Wnw of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
ISC VI 13 11 34 11.8–1.1 60.03N–.04 140.81W–.02 9–7 56 0-5
PGC VI 13 11 34 10.8–1.8 59.91N 140.89W 5 2.6L **¶16592334**
NEIC VI 13 11 34 12.0 60.04N 140.78W 14 2.6L,2.5L
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 105km Wnw of Yakutat, Ak Southeastern Alaska.
NEIC Event type se. After AEIC.
PGC VI 22 03 20 24.1–.03 59.77N 136.58W 1 3.3L
NEIC VI 22 03 20 24.1 59.77N 136.57W 1 3.3L,3.2L **¶16644196**
PGC Event type ke. 105km Wnw of Haines, Ak Southeastern Alaska.
NEIC Event type se. After OTT.

(20) Off coast of southeastern Alaska.

PGC I 01 18 59 03.8–.08 58.14N 139.14W 15 2.6L
¶601724098
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 130km Sse of Yakutat, Ak Off Coast Of Southeastern Alaska.
PGC I 01 19 28 42.6–1.9 58.11N 139.31W 5 2.7L
¶601724099
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 132km south of Yakutat, Ak Off Coast Of Southeastern Alaska.
ISC I 12 09 03 17.2–2.2 58.14N–.07 139.22W–.05 17–14 65 1-9
NEIC I 12 09 03 19.0 58.25N 139.11W 2 3.6L,3.5L **¶15928083**
PGC I 12 09 03 19.8–.71 58.28N 139.10W 15 3.5L,3.5L
ISC Event type ke.
NEIC Event type se. After AEIC.
PGC Event type ke. 115km Sse of Yakutat, Ak Off Coast Of Southeastern Alaska.
PGC I 31 15 53 19.8–1.7 58.18N 139.40W 1 2.6L
NEIC I 31 15 53 19.8 58.18N 139.40W 1 2.6L **¶16847155**
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 124km south of Yakutat, Ak Off Coast Of Southeastern Alaska.
NEIC Event type se. After OTT.
PGC I 31 17 53 57.6–6.4 58.10N 139.37W 10 3.3L
NEIC I 31 17 53 57.6 58.10N 139.37W 10 3.3L,3.2L **¶15996053**
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=-1.0. 132km south of Yakutat, Ak Off Coast Of Southeastern Alaska.
NEIC Event type se. After OTT.
PGC II 02 05 46 26.3–4.6 57.65N 138.13W 1 2.9L
NEIC II 02 05 46 26.3 57.65N 138.13W 1 2.9L,2.6L **¶16000603**
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=1.2km az=-1.0. 180km Wnw of Sitka, Ak Off Coast Of Southeastern Alaska.
NEIC Event type se. After OTT.
PGC II 24 13 35 39.6–2.2 57.53N 137.26W 10 3.6L
NEIC II 24 13 35 39.6 57.53N 137.26W 10 3.6L,3.2L **¶16852167**
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 128km Wnw of Sitka, Ak Off Coast Of Southeastern Alaska.
NEIC Event type se. After OTT.
ISC III 25 23 23 46.3–1.9 55.32N–.03 135.15W–.07 9–14 46 1-7
PGC III 25 23 23 47.6–7.2 55.25N 135.32W 25 3.0L **¶16401095**
NEIC III 25 23 23 48.1 55.29N 135.18W 15 3.0L,2.6L
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0. 200km south of Sitka, Ak Off Coast Of Southeastern Alaska.
NEIC Event type se. After AEIC.
PGC VI 14 21 33 18.6–.04 57.86N 137.99W 1 2.9L
¶16603753
PGC Event type ke. 181km southeast of Yakutat, Ak Off Coast Of Southeastern Alaska.
PGC VI 14 21 37 45.4–.10 57.87N 137.98W 5 2.6L
¶16603754
PGC Event type ke. 180km southeast of Yakutat, Ak Off Coast Of Southeastern Alaska.
PGC VI 14 21 42 25.8–.20 57.87N 137.96W 1 2.0L
¶16603755
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. 181km Wnw of Sitka, Ak Off Coast Of Southeastern Alaska.
PGC VI 23 10 56 05.1–.05 57.93N 137.20W 1 2.8L
NEIC VI 23 10 56 07.3 57.92N 137.50W 10 2.8L,2.7L **¶16649782**
PGC Event type ke. 149km Wnw of Sitka, Ak Off Coast Of Southeastern Alaska.
NEIC Event type se. After AEIC.

(22) Queen Charlotte Islands region.

PGC I 18 22 52 48.1–4.2 51.31N 130.95W 10 3.5W,2.8
¶15940539
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=-1.0. 216km Wsw of Bella Bella, Bc Queen Charlotte Islands Region.
PGC I 26 23 31 48.3–12 51.01N 131.06W 10 3.6W,2.9L
¶15973857
PGC Event type ke. Error ellipse: s-maj=3.3km s-min=0.7km az=-1.0. 239km Wsw of Bella Bella, Bc Haida Gwaii Region.
PGC II 04 20 12 39.8–2.9 51.08N 130.92W 10 3.6W,3.0L
¶601724211
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0. 227km Wsw of Bella Bella, Bc Haida Gwaii Region.
PGC II 16 11 11 18.3–2.3 51.96N 131.35W 20 3.5L
¶16029612
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 146km Sse of Sandspit, Bc Haida Gwaii Region.
ISC II 28 01 55 46.1–1.6 51.87N–.05 131.57W–.05 10–10 83 1-77
NEIC II 28 01 55 46.0 51.92N 131.38W 20 4.1W **¶16166752**
PGC II 28 01 55 46.0–1.1 51.92N 131.38W 20 4.1L,4.1W
IDC II 28 01 55 47.0–1.7 51.98N 131.35W 0 4.2s,4.2
ISC Event type ke.

NEIC Event type se. After OTT. Moment Tensor Solution. $M_0$2.00000×10^{15}
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 151km Sse of Sandspit, Bc Haida Gwaii Region.
IDC Error ellipse: s-maj=22.6km s-min=12.7km az=55.0.
PGC III 15 21 41 19.9–1.5 53.32N 133.20W 20 3.5L
¶16320505
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 92km west of Sandspit, Bc Haida Gwaii Region.
PGC III 17 07 11 46.5–.44 53.10N 132.79W 20 3.8L
¶601724305
PGC Event type ke. 67km west of Sandspit, Bc Haida Gwaii Region.
PGC III 19 15 01 15.8–2.1 51.39N 131.31W 10 3.5W,2.9L
¶16341498
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 210km Sse of Sandspit, Bc Haida Gwaii Region.
ISC V 16 05 59 52.2–2.2 52.14N–.05 131.54W–.05 4–14 4.0b,3.4s 150 0-151
IDC V 16 05 59 52.8–.92 52.21N 131.40W 0 4.0,4.0L **¶16521360**
NEIC V 16 05 59 52.9 52.04N 132.05W 20 4.6W,4.1b
PGC V 16 05 59 52.9–.09 52.04N 132.05W 20 4.7L,4.6W
ISC Event type ke.
IDC Error ellipse: s-maj=14.8km s-min=6.3km az=34.0.
NEIC Event type se. After OTT. Moment Tensor Solution. $M_0$8.70000×10^{15}
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 135km south of Sandspit, Bc Haida Gwaii Region.
ISC VI 03 22 59 55.9–1.0 52.65N–.04 132.09W–.05 7–6 3.6b,3.1s 85 0-87
IDC VI 03 22 59 53.3–1.1 52.49N 132.52W 0 4.1,3.8 **¶16575666**
NEIC VI 03 22 59 54.0 52.54N 132.23W 20 4.1L,4.0W
PGC VI 03 22 59 54.7–.48 52.54N 132.23W 20 4.2L,4.0W
ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=9.1km az=87.0.
NEIC Event type se. After OTT. Moment Tensor Solution.
PGC Event type ke. 84km Ssw of Sandspit, Bc Haida Gwaii Region.
PGC VI 08 16 59 42.1–1.8 51.89N 131.50W 20 3.9L
¶16577434
PGC Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 153km Sse of Sandspit, Bc Haida Gwaii Region Felt (I) at Skidegate.
ISC VI 17 02 22 23.3–.77 51.93N–.04 131.32W–.04 16–4 4.8b,4.2s 1075 1-97
PGC VI 17 02 22 19.6–1.6 51.74N 131.62W 20 4.9W,4.6L **¶16621508**
GCMT VI 17 02 22 19.6–.30 51.69N 131.75W 19–1 5.0W,4.6L
IDC VI 17 02 22 20.9–.62 51.83N 131.58W 0 4.4,4.3
ISCJB VI 17 02 22 20.4–.56 51.96N–.01 131.28W–.03 2–3 4.7b,4.2s
MOS VI 17 02 22 21.5–1.0 51.90N 131.42W 10 5.0b,4.3s
BJI VI 17 02 22 21.7 52.00N 131.30W 10 5.0b,4.9s
NEIC VI 17 02 22 23.6–.17 51.96N 131.34W 10 4.9b,4.9W
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 168km south of Sandspit, Bc Haida Gwaii Region.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c46; s103,c165; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.28±.12 $M_{\theta\theta}$-3.07±.12; $M_{\phi\phi}$2.79±.12; $M_{r\theta}$-0.31±.23; $M_{\theta\phi}$2.92±.09; $M_{\phi r}$-1.10±.24; Best double couple: NP1:ϕ_s156.00000°,δ80.00000°,λ168.00000°. NP2:ϕ_s249.00000°,δ78.00000°,λ10.00000°. Principal axes: T 4.3170,Plg16.0000°,Azm112.0000°; N -0.0320,Plg74.0000°,Azm299.0000°; P -4.2810,Plg2.0000°,Azm203.0000° $M_0$4.29900×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=6.9km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=1.5km az=141.5.
MOS Error ellipse: s-maj=10.2km s-min=4.0km az=114.6.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=1.6km az=46.0. Moment Tensor Solution. $M_0$2.60000×10^{16}

(23) British Columbia.

IDC I 31 00 25 21.8–6.5 49.77N 114.90W 0 3.9,3.5
¶17191370
IDC Error ellipse: s-maj=89.0km s-min=42.8km az=56.0.
IDC II 16 20 08 32.4–1.1 50.14N 115.25W 0 3.5L,3.4
¶17192381
IDC Error ellipse: s-maj=21.5km s-min=11.6km az=102.0.
PGC IV 13 20 31 18.2–.04 56.54N 122.22W 10 3.1L
¶602945432
PGC Event type ke. 89km Wnw of Fort St. John, Bc British Columbia, Canada.
PGC V 10 14 16 03.5 59.51N 122.37W 1 3.5L
¶601735077
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 79km Nne of Fort Nelson, Bc British Columbia, Canada.
PGC V 19 13 05 15.2 59.49N 122.41W 10 4.2L,3.6W
NEIC V 19 13 05 15.2 59.49N 122.41W 10 3.6W,3.5b **¶16548960**
PGC Event type fe. 76km Nne of Fort Nelson, Bc British Columbia, Canada Felt at 59.5N 122.4W by workers "in the bush".
NEIC Event type fe. Felt in the epicentral area. After OTT. Moment Tensor Solution. $M_0$3.60000×10^{14}
PGC VI 18 23 02 03.3–.03 59.82N 121.47W 1 2.8L
¶16680583
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=-1.0. 132km northeast of Fort Nelson, Bc British Columbia, Canada.

(24) Alberta.

IDC III 08 20 41 44.2–2.5 50.08N 114.61W 0 3.2,2.9
¶17193494
IDC Error ellipse: s-maj=44.6km s-min=10.5km az=119.0.
IDC III 23 22 33 24.2–2.5 50.48N 114.14W 0 3.6,3.4L
¶17198255
IDC Error ellipse: s-maj=99.8km s-min=14.0km az=78.0.
IDC IV 05 20 00 28.6–1.1 50.15N 114.75W 0 3.7,3.5
¶17199922
IDC Error ellipse: s-maj=19.2km s-min=7.8km az=125.0.
ISC IV 10 01 52 50.7–1.0 52.27N–.02 115.75W–.03 12–8 48 2-25
PGC IV 10 01 52 50.9–.02 52.28N 115.55W 1 3.4L **¶16418039**
IDC IV 10 01 52 51.9–1.8 52.25N 116.01W 16–16 3.5,3.3L
ISC Event type ke.
PGC Event type ke. 46km west of Rocky Mt. House, Alberta Alberta, Canada.
IDC Error ellipse: s-maj=36.5km s-min=8.4km az=91.0.
ISC IV 25 19 09 49.8–1.2 53.33N–.08 116.1W–.20 10 7 5-62
IDC IV 25 19 09 48.8–1.1 53.18N 115.98W 0 3.7b,3.6 **¶17202072**
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=8.8km az=95.0.

(25) Vancouver Island region.

ISC I 04 20 20 03.3–.90 50.53N–.06 130.06W–.05 14 3.9b,3.7s 89 1-87
ISCJB I 04 20 20 00.8–.44 50.55N–.03 130.14W–.06 14 3.8b,3.6s **¶15905609**
NEIC I 04 20 20 01.4 50.40N 130.26W 10 4.2W,3.6s
PGC I 04 20 20 01.4–1.6 50.40N 130.26W 10 4.2W,3.6L
IDC I 04 20 20 03.8–1.7 50.53N 129.76W 0 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=2.8km az=138.3.
NEIC Event type se. After OTT. Moment Tensor Solution. $M_0$2.80000×10^{15}
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 203km west of Pt. Hardy, Bc Vancouver Island Region.
IDC Error ellipse: s-maj=24.8km s-min=11.5km az=67.0.
ISC I 05 14 35 12.7–2.9 49.66N–.06 129.38W–.07 7–18 59 1-58
PGC I 05 14 35 09.8–2.4 49.44N 129.73W 10 3.9W,3.3L **¶15908875**
IDC I 05 14 35 12.5–2.0 49.68N 129.41W 0 4.0b,3.8
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 217km Wsw of Pt. Hardy, Bc Vancouver Island Region.
IDC Error ellipse: s-maj=30.0km s-min=11.9km az=65.0.
ISC I 05 22 30 24.0–2.5 49.20N–.06 128.75W–.07 5–15 58 1-59
PGC I 05 22 30 20.5–2.3 48.95N 129.15W 10 3.8W,3.2L **¶15909021**
IDC I 05 22 30 20.4–4.1 49.08N 129.39W 0 3.9b,3.8
ISCJB I 05 22 30 22.3–1.1 49.11N–.05 128.8W–.10 12–12 3.9b,3.8
ISC Event type ke.
PGC Event type ke. 231km southwest of Pt. Hardy, Bc Vancouver Island Region.
ISCJB Event type ke.
PGC I 07 08 57 08.9–6.7 50.61N 130.29W 10 3.5W,2.9L
¶601724118
PGC Event type ke. 203km west of Pt. Hardy, Bc Vancouver Island Region.
PGC I 13 17 26 05.3–2.9 49.38N 128.93W 10 3.7W,3.1L
¶15937912
PGC Event type ke. 182km southwest of Pt. Hardy, Bc Vancouver Island Region.
PGC I 23 03 25 07.7–1.4 50.43N 130.21W 10 3.6W,3.0L
¶601724164
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 199km west of Pt. Hardy, Bc Vancouver Island Region.
ISC I 27 14 47 52.4–1.1 50.56N–.05 130.38W–.06 14 75 1-59
ISCJB I 27 14 47 52.3–.48 50.67N–.03 130.30W–.06 14 3.5b,3.2s **¶17191118**
PGC I 27 14 47 53.3–1.6 50.53N 130.39W 10 3.9W,3.3L
IDC I 27 14 47 58.3–1.9 50.65N 129.53W 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.0km az=139.8.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 210km west of Pt. Hardy, Bc Vancouver Island Region.
IDC Error ellipse: s-maj=29.3km s-min=11.1km az=82.0.
ISC I 29 07 58 29.1–.93 50.70N–.05 130.26W–.05 14 3.4b 163 1-59
ISCJB I 29 07 58 27.8–.49 50.75N–.04 130.25W–.06 14 3.5b **¶15990259**
PGC I 29 07 58 28.7–2.1 50.62N 130.42W 10 4.0W,3.4
NEIC I 29 07 58 28.7 50.62N 130.42W 10 4.7W,3.4
IDC I 29 07 58 29.3–1.6 50.77N 130.33W 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=2.6km az=139.6.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 212km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
NEIC Event type se. After OTT. Moment Tensor Solution.
IDC Error ellipse: s-maj=26.6km s-min=12.1km az=59.0.
ISC II 03 07 52 18.0–1.9 50.80N–.05 130.12W–.05 0–12 4.2b,3.5s 405 1-93
NEIC II 03 07 52 17.8 50.75N 130.30W 10 4.6W,4.2b **¶16002362**
PGC II 03 07 52 17.8–1.9 50.75N 130.30W 10 4.6W,3.8L
IDC II 03 07 52 19.8–1.1 50.82N 129.91W 0 4.1,3.9
ISC Event type ke.
NEIC Event type se. After OTT. Moment Tensor Solution. $M_0$1.10000×10^{16}
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 203km west of Pt. Hardy, Bc Vancouver Island Region.
IDC Error ellipse: s-maj=18.9km s-min=9.5km az=62.0.
PGC II 06 21 49 33.8–1.4 50.47N 130.17W 10 3.8W,3.2L
¶16013097
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 196km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC II 07 07 07 39.7–9.3 50.86N 130.21W 10 3.5W,2.8L
¶16012699
PGC Event type ke. Error ellipse: s-maj=3.3km s-min=1.4km az=-1.0. 197km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
ISC II 08 16 36 36.8–.94 48.56N–.02 123.11W–.02 51–5 163 0-24
IDC II 08 16 36 30.9–1.7 48.18N 123.42W 0 3.7,3.5L **¶16012717**
ISCJB II 08 16 36 35.6–.22 48.57N–.02 123.10W–.02 58–3 3.1b,3.5L
PNSN II 08 16 36 36.5 48.55N 123.10W 53 3.2,3.5L
NEIC II 08 16 36 36.5 48.55N 123.10W 53 3.2,3.5L
PGC II 08 16 36 36.1–.02 48.55N 123.14W 55–0 3.2L,3.5L
ISC Event type fe.
IDC Error ellipse: s-maj=33.4km s-min=12.6km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=44.1.
PNSN Moment Tensor Solution. NP1:ϕ_s323.00000°,δ40.00000° NP2:ϕ_s175.00000°,δ55.00000° Principal axes: T Plg8.0000°,Azm251.0000°; P Plg72.0000°,Azm136.0000°
NEIC Event type fe. Felt [III] at Olga and [II] at Anacortes, Bellingham, Eastsound, Friday Harbor, Oak Harbor, Port Angeles, Port Townsend and Sequim. Felt in the San Juan Islands and in the Puget Sound area as far as Seattle. Felt [IV] in the Victoria area and [II] at Abbotsford, Cowichan Valley, Duncan, Sooke and Vancouver, British Columbia. Also felt in the Gulf Islands. After SEA.
PGC Event type fe. 21km Ene of Victoria, Bc Vancouver Island, Canada Region Felt (III-IV) in Greater Victoria.
PGC II 12 07 37 35.6–.10 50.60N 130.32W 10 3.5W,2.9
¶16029586
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 205km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC II 13 21 40 41.7–.87 50.74N 130.46W 10 3.9W,3.2L
¶16024872
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 214km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC II 16 08 23 29.4–1.6 48.81N 128.70W 10 3.6W,2.9L
¶16029804
PGC Event type ke. 206km west of Tofino, Bc Vancouver Island, Canada Region.
PGC II 17 02 29 42.5–1.1 48.93N 129.43W 10 3.5W,2.9L
¶16031166
PGC Event type ke. 244km southwest of Pt. Hardy, Bc Vancouver Island Region.
PGC II 19 05 23 21.6–5.2 50.41N 130.23W 10 3.5W,2.8
¶16100849
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=-1.0. 201km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC II 19 05 33 15.4–4.9 50.42N 130.18W 10 3.5W,2.9
¶16100850
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0. 197km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC II 21 04 43 10.8–.07 50.40N 130.32W 10 3.5W,2.9L
¶16057208
PGC Event type ke. Error ellipse: s-maj=4.4km s-min=0.7km az=-1.0. 207km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC II 27 12 13 09.5–.13 50.65N 130.51W 10 3.5W,2.9L
¶16166872
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=-1.0. 218km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC III 01 10 12 26.2–1.3 50.75N 130.55W 10 3.8W,3.2L
¶16170155
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 221km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
ISC III 03 03 55 04.4–3.0 50.48N–.05 129.80W–.05 17–20 4.2b 140 1-85
NEIC III 03 03 54 59.9 50.24N 130.23W 10 4.5W,4.0b **¶16193992**
PGC III 03 03 54 59.9–.05 50.24N 130.23W 10 4.6W,3.7L
IDC III 03 03 55 00.9–.81 50.37N 130.09W 0 4.0,3.8
BJI III 03 03 55 03.4 50.73N 130.24W 10 4.2b,3.8
ISC Event type ke.
NEIC Event type se. After OTT. Moment Tensor Solution. $M_0$8.30000×10^{15}
PGC Event type ke. 205km west of Pt. Hardy, Bc Vancouver Island Region.
IDC Error ellipse: s-maj=15.0km s-min=10.6km az=56.0.
ISC III 10 17 06 02.4–2.5 48.74N–.06 128.44W–.06 2–15 58 1-60
PGC III 10 17 06 00.2–1.7 48.50N 128.88W 10 3.8W,3.2L **¶16309745**
IDC III 10 17 06 02.6–2.0 48.66N 128.36W 0 3.7,3.5
ISC Event type ke.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 228km Wsw of Tofino, Bc Vancouver Island, Canada Region.
IDC Error ellipse: s-maj=39.1km s-min=12.2km az=69.0.
PGC III 12 06 39 17.2–3.1 48.85N 129.00W 10 3.8W,3.1L
¶601724292
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0. 227km west of Tofino, Bc Vancouver Island, Canada Region.
ISC III 20 04 20 37.9–1.0 49.83N–.04 128.33W–.04 12–6 4.4b,3.8s 628 0-151
IDC III 20 04 20 35.0–.66 49.88N 128.50W 0 4.2,4.2L **¶16339565**
NEIC III 20 04 20 35.3 49.67N 128.62W 10 4.6W,4.4b
PGC III 20 04 20 35.3–.32 49.67N 128.62W 10 4.6W,3.8L
BJI III 20 04 20 36.0 49.60N 128.70W 10 5.1b,4.7b
ISCJB III 20 04 20 36.6–.58 49.89N–.02 128.24W–.03 6–4 4.3b,3.8s
ISC Event type ke.
NEIC Event type se. After OTT. Moment Tensor Solution.
PGC Event type ke. 143km southwest of Pt. Hardy, Bc Vancouver Island, Canada Region.
ISCJB Event type ke.
PGC IV 04 04 15 31.9–1.9 48.91N 129.30W 10 3.7W,3.1L

¶601735021
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 241km southwest of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC IV 06 00 57 23.5–3.2 50.61N 130.39W 10 3.5W,2.9L

¶16411039
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 209km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC IV 06 06 11 21.8–4.7 50.76N 130.53W 10 3.9W,3.2L

¶16411043
PGC Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=-1.0. 219km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC IV 12 06 53 45.0–1.6 49.30N 128.81W 10 3.5W,2.9L

¶16418701
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 185km southwest of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC IV 13 14 59 35.1–1.6 50.51N 130.32W 10 3.9W,3.3L

¶16424724
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 205km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC IV 26 23 07 14.2–1.4 50.43N 130.23W 10 3.6W,3.0L

¶16482250
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 201km west of Pt. Hardy, Bc Vancouver Island Region.
PGC V 03 05 44 51.0–.98 49.27N 127.96W 10 3.6W,2.0

¶16495920
PGC Event type ke. 142km Wsw of Gold R., Bc Vancouver Island, Canada Region.
PGC V 03 09 17 15.2–.07 50.56N 130.34W 10 3.5W,2.8

¶16495921
PGC Event type ke. 206km west of Pt. Hardy, Bc Vancouver Island, Canada Region.
PGC V 16 21 56 43.3–1.9 50.51N 130.30W 10 3.5W,2.9L

¶16524523
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 204km west of Pt. Hardy, Bc Vancouver Island, Canada Region.

ISC	**VI**	**16 20 20 11.0–2.9**	**48.89N–.05**	**128.53W–.06**	**2–18**	**3.3s**	**74**	**1-81**	
PGC	VI	16 20 20 08.9–1.1	48.65N	128.87W	10	3.5W,2.9L			¶16621496
IDC	VI	16 20 20 11.6–2.2	48.91N	128.38W	0	3.7,3.7b			

ISC Event type ke.
PGC Event type ke. 222km west of Tofino, Bc Vancouver Island, Canada Region.
IDC Error ellipse: s-maj=37.2km s-min=16.2km az=58.0.

ISC	**VI**	**27 08 25 45.5–1.1**	**49.23N–.06**	**129.56W–.08**	**10**	**4.3b**	**93**	**1-94**	
NEIC	VI	27 08 25 43.6	49.10N	129.76W	10	4.3b			¶16683851
PGC	VI	27 08 25 43.6–1.6	49.10N	129.76W	10	3.6W,3.0L			
ISCJB	VI	27 08 25 44.9–.62	49.22N–.03	129.41W–.06	10	4.3b,4.1s			
IDC	VI	27 08 25 47.5–2.7	49.40N	129.30W	0	4.3b,3.8			

ISC Event type ke.
NEIC Event type se. After OTT.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 244km southwest of Pt. Hardy, Bc Vancouver Island, Canada Region.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.0km az=143.0.
IDC Error ellipse: s-maj=36.9km s-min=13.4km az=58.0.

(26) Off coast of Washington.

¶601724324
PGC III 20 23 20 13.3–16 47.47N 128.90W 10 3.5W,2.9L

PGC Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=-1.0. 289km Wsw of Tofino, Bc Off Coast Of Washington.
IDC IV 06 02 53 13.7–2.8 46.22N 129.16W 0 3.5,3.3

¶17199949
IDC Error ellipse: s-maj=58.5km s-min=19.0km az=59.0.

ISC	**IV**	**07 04 11 16.4–.83**	**46.14N–.09**	**129.80W–.08**	**10**	**4.3b,3.5s**	**112**	**4-96**	
IDC	IV	07 04 11 14.7–1.1	46.11N	129.67W	0	4.0,3.8			¶16424634
ISCJB	IV	07 04 11 15.2–.47	46.20N–.04	129.73W–.06	10	4.2b,3.6s			
NEIC	IV	07 04 11 17.0–.55	46.22N	129.75W	10	4.2b,3.6s			

ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=12.7km az=42.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=139.2.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.0km az=49.0.

(29) Washington.

ISC	**II**	**14 18 35 25.6–.87**	**46.29N–.02**	**122.21W–.02**	**7–6**	**3.9b,3.3s**	**109**	**0-149**	
IASPE	II	14 18 35 24.9–1.2	46.29N–.02	122.21W–.03	14–5	3.9b,3.3s			¶16032009
ISCJB	II	14 18 35 25.1–.26	46.29N–.02	122.18W–.03	9–2	4.2b,3.4s			
PNSN	II	14 18 35 25.7	46.28N	122.21W	6	4.3,3.4s			
NEIC	II	14 18 35 25.7	46.28N	122.21W	6	4.3,3.9b			
IDC	II	14 18 35 26.0–.63	46.24N	122.03W	0	3.9,3.7			

ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=3.8km s-min=3.3km az=97.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=9.9.
PNSN Moment Tensor Solution. NP1:ϕ_S73.00000°,δ80.00000° NP2:ϕ_S165.00000°,δ80.00000° Principal axes: T Plg0.0000°,Azm119.0000°; P Plg14.0000°,Azm29.0000°
NEIC Event type fe. Felt [III] at Ariel, Brush Prairie, Castle Rock, Cougar, Glenoma, Kalama, Morton, Mossyrock, Randle, Stevenson, Toutle, Washougal and Woodland. Felt in much of southwestern Washington and as far north as the Seattle area. Felt [III] at Portland and [II] from Astoria to Hood River, Oregon. After SEA. Moment Tensor Solution. s37 Moment tensor: Scale 10^{14}Nm; M_{rr}-2.53 $M_{\theta\theta}$-2.35 $M_{\phi\phi}$4.88 $M_{r\theta}$-0.73 $M_{\theta\phi}$5.64 $M_{\phi r}$-1.42 Best double couple: NP1:ϕ_S254.00000°,δ83.00000°,λ5.00000°. NP2:ϕ_S163.00000°,δ85.00000°,λ173.00000°. Principal axes: T 8.2000,Plg8.0000°,Azm119.0000°; N -2.7700,Plg81.0000°,Azm304.0000°; P -5.4300,Plg1.0000°,Azm209.0000° M_O7.20000×10^{14}
IDC Error ellipse: s-maj=9.9km s-min=7.2km az=95.0.

SEISMIC REGION 3.
California-Nevada Region.

(30) Off coast of Oregon.

ISC	**I**	**17 01 29 53.6–1.2**	**43.22N–.06**	**126.57W–.08**	**14**	**3.8b**	**43**	**2-92**	
ISCJB	I	17 01 29 51.3–.80	43.21N–.05	126.72W–.07	14	3.7b,2.9s			¶16016417
NEIC	I	17 01 29 52.2–1.3	43.13N	126.65W	10	3.1L,2.9s			
IDC	I	17 01 29 52.0–1.6	43.36N	126.51W	0	3.5,3.4b			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.9km az=144.1.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=10.2km az=52.0.
IDC Error ellipse: s-maj=27.8km s-min=13.1km az=48.0.

ISC	**I**	**27 13 02 40.0–.83**	**43.78N–.05**	**127.54W–.07**	**10**	**4.0b**	**79**	**3-88**	
ISCJB	I	27 13 02 38.0–.54	43.73N–.03	127.62W–.06	10	4.4s,3.8b			¶15972787
IDC	I	27 13 02 37.1–2.0	43.76N	127.66W	0	3.8,3.6			
NEIC	I	27 13 02 38.9–.97	43.79N	127.73W	10	4.0b,3.6			
BJI	I	27 13 02 38.7	43.70N	127.40W	10	4.8b,4.7s			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.0km az=168.9.
IDC Error ellipse: s-maj=37.5km s-min=14.5km az=52.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=5.6km az=84.0.

ISC	**II**	**08 07 44 36.2–.42**	**43.53N–.05**	**127.72W–.04**	**15**	**4.6b,4.0s**	**642**	**3-145**	
BJI	II	08 07 44 32.1	43.56N	127.78W	5	5.4b,5.0s			¶16009498
IDC	II	08 07 44 33.6–.68	43.63N	127.69W	0	4.3,4.2			
MOS	II	08 07 44 34.7–.92	43.71N	127.73W	10	4.9b,4.2			
ISCJB	II	08 07 44 35.8–.19	43.71N–.02	127.61W–.03	15	4.5b,4.0s			
NEIC	II	08 07 44 36.8–.26	43.72N	127.73W	10	4.6b,4.0s			
GCMT	II	08 07 44 36.8–.40	43.46N	128.05W	16–1	4.8W,4.0s			

ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=8.8km az=35.0.
MOS Error ellipse: s-maj=7.9km s-min=5.8km az=118.8.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.0km az=44.7.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.5km az=46.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c17; s88,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.18±.08 $M_{\theta\theta}$-1.54±.08; $M_{\phi\phi}$1.37±.07; $M_{r\theta}$-0.61±.23; $M_{\theta\phi}$-1.34±.07; $M_{\phi r}$0.68±.22; Best double couple: NP1:ϕ_S292.00000°,δ80.00000°,λ158.00000°. NP2:ϕ_S26.00000°,δ68.00000°,λ10.00000°. Principal axes: T 2.2480,Plg23.0000°,Azm247.0000°; N -0.1300,Plg66.0000°,Azm90.0000°; P -2.1110,Plg9.0000°,Azm341.0000° M_O2.18000×10^{16}

ISC	**II**	**08 22 02 01.5–.55**	**43.45N–.04**	**127.35W–.04**	**12–2**	**5.0b,4.6s**	**512**	**2-154**	
BJI	II	08 22 01 56.6	43.40N	127.10W	10	5.5b,5.4s			¶16013109
MOS	II	08 22 01 59.7–1.1	43.55N	127.29W	10	5.2b,4.6s			
IDC	II	08 22 01 59.0–.52	43.46N	127.31W	0	4.7,4.6			
GCMT	II	08 22 02 01.9–.20	43.31N	127.48W	18–0	5.4W,4.6			
ISCJB	II	08 22 02 01.6–.71	43.53N–.02	127.20W–.02	20–5	4.9b,4.6s			
NEIC	II	08 22 02 01.9–.20	43.54N	127.31W	10	5.1b,4.6s			

ISC Event type fe.
MOS Error ellipse: s-maj=5.6km s-min=4.4km az=113.0.
IDC Error ellipse: s-maj=15.0km s-min=7.0km az=38.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c142; s125,c242; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.06±.02 $M_{\theta\theta}$-0.96±.02; $M_{\phi\phi}$1.02±.02; $M_{r\theta}$-0.13±.04; $M_{\theta\phi}$-1.06±.02; $M_{\phi r}$-0.14±.04; Best double couple: NP1:ϕ_S21.00000°,δ87.00000°,λ-7.00000°. NP2:ϕ_S112.00000°,δ83.00000°,λ-177.00000°. Principal axes: T 1.4850,Plg3.0000°,Azm67.0000°; N -0.0460,Plg82.0000°,Azm179.0000°; P -1.4420,Plg7.0000°,Azm336.0000° M_O1.46300×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=144.8.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=219.0. Felt at Coos Bay and Gold Beach.

ISC	**II**	**12 22 35 54.3–1.3**	**44.3N–.10**	**128.9W–.10**	**10**	**3.6b**	**18**	**5-82**	
ISCJB	II	12 22 35 52.6–1.1	44.37N–.08	128.8W–.10	10	4.6s,3.6b			¶16328818
NEIC	II	12 22 35 52.1–2.0	44.37N	129.21W	10	3.5b,3.6b			
IDC	II	12 22 35 52.9–1.5	44.40N	128.75W	0	3.8,3.8s			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=8.5km az=136.9.
NEIC Event type se. Error ellipse: s-maj=25.0km s-min=10.5km az=77.0.
IDC Error ellipse: s-maj=30.0km s-min=14.4km az=38.0.

IDC	**II**	**13 06 32 12.4–3.8**	**44.34N**	**129.23W**	**0**	**3.5,3.3**			

¶17192143
IDC Error ellipse: s-maj=100.5km s-min=22.6km az=55.0.

ISC	**II**	**13 17 49 21.8–1.7**	**44.28N–.07**	**129.2W–.10**	**10**		**42**	**4-71**	
ISCJB	II	13 17 49 20.1–1.0	44.30N–.05	129.2W–.10	10	3.8s,3.3b			¶16398125
IDC	II	13 17 49 21.4–2.9	44.36N	129.01W	0	3.8,3.6b			
NEIC	II	13 17 49 22.4–1.3	44.36N	129.18W	10	3.5L,3.6b			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=6.9km az=166.7.
IDC Error ellipse: s-maj=45.7km s-min=18.2km az=52.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=8.5km az=70.0.

ISC	**II**	**13 22 34 42.0–1.0**	**44.25N–.09**	**129.3W–.10**	**13**	**3.7b**	**46**	**4-78**	
IDC	II	13 22 34 38.1–1.5	44.05N	129.54W	0	3.7,3.6b			¶16398144
ISCJB	II	13 22 34 41.3–.79	44.39N–.06	129.35W–.10	13	3.8s,3.7b			
NEIC	II	13 22 34 41.4–1.0	44.27N	129.53W	10	4.1b,3.7b			

ISC Event type se.
IDC Error ellipse: s-maj=34.4km s-min=14.4km az=37.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=7.0km az=141.5.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=8.8km az=224.0.

ISC	**II**	**14 22 48 41.9–1.0**	**44.2N–.10**	**129.5W–.10**	**13**	**3.9b**	**43**	**4-85**	
IDC	II	14 22 48 40.4–1.5	44.33N	129.41W	0	3.8,3.7			¶16398213
ISCJB	II	14 22 48 41.2–.64	44.38N–.08	129.40W–.09	13	4.0b,3.7s			
NEIC	II	14 22 48 42.3–.61	44.41N	129.51W	10	4.4b,3.7s			

ISC Event type se.
IDC Error ellipse: s-maj=39.3km s-min=16.4km az=40.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=6.2km az=35.1.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=5.6km az=217.0.

ISC	**II**	**17 17 35 38.3–1.1**	**44.5N–.10**	**129.7W–.10**	**13**	**3.6b,3.6s**	**57**	**4-82**	
ISCJB	II	17 17 35 36.8–.73	44.55N–.06	129.57W–.08	13	3.7b,3.5s			¶16362985
NEIC	II	17 17 35 37.7–.74	44.54N	129.68W	10	4.3b,3.5s			
IDC	II	17 17 35 37.7–1.8	44.59N	129.32W	0	3.9,3.8			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.0km az=135.2.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=5.8km az=48.0.
IDC Error ellipse: s-maj=34.9km s-min=13.2km az=49.0.

ISC	**II**	**28 06 28 37.1–1.3**	**44.5N–.10**	**129.3W–.10**	**13**	**3.8b**	**14**	**6-82**	
IDC	II	28 06 28 34.0–1.9	44.28N	129.37W	0	3.6,3.5			¶16388221
ISCJB	II	28 06 28 35.4–.92	44.42N–.09	129.2W–.10	13	3.5b,3.5			
NEIC	II	28 06 28 36.3–1.1	44.36N	129.34W	10	3.4L,3.5			

ISC Event type se.
IDC Error ellipse: s-maj=39.0km s-min=17.7km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=10.1km az=24.6.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=9.5km az=223.0.

IDC	**II**	**28 06 44 48.5–7.9**	**43.73N**	**129.61W**	**0**	**3.5L,3.3**			

¶17192983
IDC Error ellipse: s-maj=136.7km s-min=31.2km az=30.0.

ISC	**III**	**01 20 01 23.3–1.8**	**43.43N–.08**	**127.4W–.10**	**15**		**34**	**3-60**	
ISCJB	III	01 20 01 20.9–1.1	43.44N–.06	127.38W–.10	15	3.2b,2.9s			¶16442168
IDC	III	01 20 01 21.9–2.2	43.55N	127.14W	0	3.7,3.6L			
NEIC	III	01 20 01 22.9–1.2	43.49N	127.30W	10	3.4L,3.6L			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=7.5km az=155.0.
IDC Error ellipse: s-maj=36.6km s-min=15.8km az=49.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.2km az=61.0.

ISC	**III**	**06 21 35 48.3–1.0**	**44.28N–.05**	**129.35W–.05**	**23–6**	**4.7b,4.0s**	**684**	**4-145**	
IDC	III	06 21 35 43.8–.68	44.19N	129.44W	0	4.4,4.3			¶16196816
BJI	III	06 21 35 43.6	44.40N	129.30W	11	5.2b,5.0s			
ISCJB	III	06 21 35 45.8–.81	44.35N–.02	129.30W–.03	11–5	4.6b,4.0s			
MOS	III	06 21 35 45.1–.93	44.35N	129.35W	10	4.9b,4.0s			
NEIC	III	06 21 35 47.4–.23	44.37N	129.38W	10	4.8b,4.0s			
GCMT	III	06 21 35 47.4–.20	44.15N	129.54W	12	5.0W,4.0s			

ISC Event type ke.
IDC Error ellipse: s-maj=18.5km s-min=9.5km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=137.3.
MOS Error ellipse: s-maj=7.0km s-min=5.1km az=130.9.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.2km az=223.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c33; s96,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.85±.11 $M_{\theta\theta}$0.51±.11; $M_{\phi\phi}$3.34±.10; $M_{r\theta}$-0.05±.40; $M_{\theta\phi}$-2.47±.09; $M_{\phi r}$1.41±.35; Best double couple: NP1:ϕ_S161.00000°,δ54.00000°,λ-76.00000°. NP2:ϕ_S318.00000°,δ38.00000°,λ-108.00000°. Principal axes: T 4.9500,Plg8.0000°,Azm241.0000°; N -0.7890,Plg11.0000°,Azm332.0000°; P -4.1590,Plg76.0000°,Azm116.0000° M_O4.55500×10^{16}

ISC	**III**	**06 22 23 15.9–.60**	**44.30N–.06**	**129.47W–.05**	**15–3**	**4.9b,3.8s**	**788**	**4-154**	
BJI	III	06 22 23 12.9	44.30N	129.50W	10	5.3b,5.0s			¶16196817
MOS	III	06 22 23 13.9–.95	44.30N	129.50W	10	5.2b,5.0s			
IDC	III	06 22 23 13.0–.52	44.21N	129.39W	0	4.6,4.6b			
NEIC	III	06 22 23 15.6–.27	44.29N	129.43W	10	4.9b,4.6b			
GCMT	III	06 22 23 15.6–.30	44.23N	129.56W	13–1	5.0W,4.6b			
ISCJB	III	06 22 23 16.0–.82	44.36N–.02	129.37W–.03	22–5	4.8b,3.9s			

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c34; s89,c131;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.89±.19 $M_{\theta\theta}$0.58±.13; $M_{\phi\phi}$2.31±.13; $M_{r\theta}$1.10±.36; $M_{\theta\phi}$-1.74±.08; $M_{\phi r}$1.08±.29; Best double couple: NP1:ϕ_S172.00000°,δ53.00000°,λ-58.00000°. NP2:ϕ_S305.00000°,δ47.00000°,λ-126.00000°. Principal axes: T 3.4090,Plg3.0000°,Azm239.0000°; N 0.2230,Plg26.0000°,Azm331.0000°; P -3.6280,Plg64.0000°,Azm142.0000° M_O3.51900×10^{16}
ISCJB Event type se.

ISC	**III**	**07 02 22 01.7–1.1**	**44.28N–.06**	**129.09W–.07**	**10**	**3.4b**	**80**	**4-76**	
ISCJB	III	07 02 22 00.6–.66	44.35N–.04	129.05W–.06	10	3.2b			¶16245343
IDC	III	07 02 22 00.6–1.7	44.42N	129.06W	0	3.6,3.5			
NEIC	III	07 02 22 02.1–.85	44.36N	129.16W	10	3.9b,3.5			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=157.9.
IDC Error ellipse: s-maj=33.6km s-min=15.6km az=42.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=5.5km az=71.0.

ISC	**III**	**07 15 59 24.5–.75**	**44.38N–.07**	**129.33W–.08**	**13**	**4.1b,3.2s**	**67**	**4-86**	
IDC	III	07 15 59 21.2–1.0	44.19N	129.60W	0	4.0,3.9b			¶16245350
ISCJB	III	07 15 59 23.7–.57	44.40N–.05	129.25W–.06	13	4.1b,3.2s			
NEIC	III	07 15 59 23.6–.69	44.35N	129.46W	10	4.0b,3.2s			

ISC Event type se.
IDC Error ellipse: s-maj=29.0km s-min=12.0km az=33.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=42.8.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.4km az=35.0.

ISC	**III**	**08 01 27 01.8–.91**	**44.25N–.05**	**129.23W–.05**	**41–7**	**5.0b,4.0s**	**1051**	**4-154**
BJI	III	08 01 26 54.4	44.30N	129.40W	10	5.3b,5.2s		**¶16268368**
IDC	III	08 01 26 55.0–.55	44.24N	129.38W	0	4.7,4.7b		
MOS	III	08 01 26 56.3–.88	44.32N	129.42W	10	5.3b,4.7b		
GCMT	III	08 01 26 58.2–.20	44.18N	129.40W	12	5.1W,4.7b		
NEIC	III	08 01 26 58.2–.22	44.32N	129.45W	10	5.0b,4.7b		
ISCJB	III	08 01 27 00.0–.37	44.30N–.02	129.21W–.03	35–2	5.0b,4.1s		

ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c70; s110,c180;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.69±.10 $M_{\theta\theta}$1.33±.11; $M_{\phi\phi}$3.36±.10; $M_{r\theta}$1.20±.33; $M_{\theta\phi}$-2.73±.09; $M_{\phi r}$-0.75±.30; Best double couple: NP1:ϕ_s318.00000°,δ53.00000°,λ-99.00000°. NP2:ϕ_s153.00000° ,δ38.00000°,λ-78.00000°. Principal axes: T 5.4250,Plg7.0000°,Azm55.0000° ; N -0.4980,Plg7.0000°,Azm324.0000°; P -4.9270,Plg80.0000°,Azm190.0000° M_o5.17600×10^{16}
NEIC Event type fe. Felt at Portland and Saint Helens. Also felt at La Center, Washington and at Ferndale, California.
ISCJB Event type fe.

ISC	**III**	**08 07 19 32.3–.54**	**44.26N–.07**	**129.18W–.05**	**13**	**4.4b,3.3s**	**288**	**4-121**
IDC	III	08 07 19 28.3–.98	44.18N	129.36W	0	4.0,4.0b		**¶16268375**
BJI	III	08 07 19 30.1	44.25N	129.25W	13	4.9b,4.6b		
ISCJB	III	08 07 19 31.4–.27	44.34N–.03	129.19W–.03	13	4.4b,3.3s		
NEIC	III	08 07 19 32.5–.29	44.30N	129.32W	10	4.4b,3.3s		

ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=11.6km az=39.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.6km az=35.7.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=2.6km az=36.0.

ISC	**III**	**08 07 29 52.3–.52**	**44.13N–.08**	**129.44W–.07**	**13**	**4.7b,3.3s**	**570**	**4-146**
BJI	III	08 07 29 48.3	43.80N	129.43W	10	5.4b,4.9b		**¶16268377**
IDC	III	08 07 29 49.8–1.0	44.10N	129.45W	0	4.3,4.1		
MOS	III	08 07 29 50.7–1.0	44.15N	129.46W	10	4.8b,4.1		
ISCJB	III	08 07 29 51.4–.21	44.17N–.02	129.34W–.03	13	4.5b,3.5s		
NEIC	III	08 07 29 52.8–.26	44.17N	129.47W	10	4.6b,3.5s		

ISC Event type fe.
IDC Error ellipse: s-maj=26.4km s-min=11.2km az=38.0.
MOS Error ellipse: s-maj=7.1km s-min=5.1km az=131.8.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=39.9.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.5km az=38.0. Felt at Bandon and Florence.

ISC	**III**	**20 20 41 41.8–1.7**	**42.51N–.07**	**126.7W–.10**	**12**	**3.4b**	**30**	**2-61**
ISCJB	III	20 20 41 40.1–.99	42.56N–.06	126.72W–.08	12	3.9s,3.4b		**¶16479821**
IDC	III	20 20 41 41.3–2.5	42.76N	126.45W	0	3.7,3.6s		
NEIC	III	20 20 41 42.4–1.5	42.65N	126.64W	10	3.2L,3.6s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=7.4km az=140.5.
IDC Error ellipse: s-maj=50.9km s-min=15.5km az=40.0.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=12.0km az=52.0.

ISC	**III**	**21 18 49 05.9–1.7**	**42.56N–.09**	**126.6W–.10**	**12**	**3.1b**	**15**	**2-25**
ISCJB	III	21 18 49 04.1–1.1	42.55N–.08	126.66W–.09	12	3.1b		**¶17197737**
IDC	III	21 18 49 04.7–2.3	42.67N	126.48W	0	3.6,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=9.2km az=29.6.
IDC Error ellipse: s-maj=51.4km s-min=15.5km az=42.0.

ISC	**III**	**23 10 33 56.8–1.4**	**42.53N–.10**	**126.7W–.10**	**12**	**3.2b**	**16**	**2-85**
IDC	III	23 10 33 54.2–2.4	42.39N	126.85W	0	3.6,3.5L		**¶17198173**
ISCJB	III	23 10 33 55.4–.94	42.51N–.08	126.72W–.09	12	3.2s,3.1b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**25 03 59 02.6–1.2**	**42.54N–.07**	**126.44W–.08**	**12**	**3.6s,3.6b**	**32**	**2-84**
IDC	III	25 03 59 00.0–1.5	42.68N	126.58W	0	3.8,3.6s		**¶16480766**
ISCJB	III	25 03 59 00.7–.86	42.60N–.06	126.58W–.08	12	3.6s,3.4b		
NEIC	III	25 03 59 02.0–1.2	42.66N	126.60W	10	3.0L,3.4b		

ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=12.3km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=8.2km az=33.5.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=10.4km az=225.0.

IDC	**III**	**25 19 58 24.0–731**	**44.17N**	**125.91W**	**0**			
								¶17198545

IDC Error ellipse: s-maj=340.9km s-min=145.6km az=40.0.

ISC	**III**	**25 23 19 03.3–.60**	**42.59N–.07**	**126.60W–.07**	**12**	**4.3b,3.6s**	**214**	**2-89**
IDC	III	25 23 19 00.5–.79	42.65N	126.59W	0	4.1,4.0b		**¶603310066**
ISCJB	III	25 23 19 02.5–.25	42.61N–.02	126.54W–.03	12	4.3b,3.7s		
NEIC	III	25 23 19 03.7–.27	42.61N	126.65W	10	4.4b,3.7s		

ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=9.4km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.3km az=43.4.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.5km az=45.0.

ISC	**IV**	**12 01 12 11.0–1.1**	**42.53N–.06**	**126.26W–.08**	**10**	**4.5b**	**65**	**2-94**
NEIC	IV	12 01 12 05.6–1.9	42.34N	126.89W	10	4.2b		**¶16418167**
IDC	IV	12 01 12 14.5–3.0	42.92N	125.40W	0	3.6,3.4		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=22.9km s-min=7.9km az=70.0.
IDC Error ellipse: s-maj=51.5km s-min=17.1km az=62.0.

ISC	**IV**	**22 03 31 54.4–1.2**	**43.49N–.06**	**126.88W–.10**	**14**	**3.9b,3.1s**	**76**	**2-61**
IDC	IV	22 03 31 49.1–2.7	43.33N	126.98W	0	3.8L,3.7		**¶16553310**
ISCJB	IV	22 03 31 50.9–.81	43.50N–.04	127.01W–.08	14	3.6b,3.1s		
NEIC	IV	22 03 31 55.7–.78	43.58N	126.63W	10	3.9b,3.1s		

ISC Event type se.
IDC Error ellipse: s-maj=38.5km s-min=19.7km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.8km az=160.9.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=4.4km az=76.0.

ISC	**IV**	**23 16 23 11.1–.78**	**43.72N–.06**	**128.06W–.08**	**11**	**4.0b,3.7s**	**71**	**3-93**
ISCJB	IV	23 16 23 09.5–.53	43.73N–.04	128.04W–.06	11	3.9b,3.7s		**¶16505508**
IDC	IV	23 16 23 09.6–1.0	43.77N	128.07W	0	3.9,3.8		
NEIC	IV	23 16 23 11.1–.67	43.76N	128.01W	10	4.2b,3.8		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=146.8.
IDC Error ellipse: s-maj=23.9km s-min=11.8km az=44.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=49.0.

ISC	**V**	**22 07 21 37.7–.49**	**43.45N–.06**	**127.12W–.06**	**14**	**4.6b,3.9s**	**454**	**3-99**
IDC	V	22 07 21 35.0–.65	43.48N	126.97W	0	4.2,4.1		**¶16532373**
ISCJB	V	22 07 21 37.2–.21	43.53N–.02	126.97W–.03	14	4.4b,3.8s		
NEIC	V	22 07 21 38.2–.25	43.53N	127.03W	10	4.6b,3.8s		
GCMT	V	22 07 21 38.2–.30	43.30N	127.45W	20–1	4.9W,3.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=17.7km s-min=9.1km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=142.7.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=48.0. Felt at Florence, Gresham, Medford and Salem. Also felt at Crescent City, California.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s88,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.11±.11 $M_{\theta\theta}$-1.95±.09; $M_{\phi\phi}$2.06±.09; $M_{r\theta}$-0.85±.21; $M_{\theta\phi}$-1.72±.08; $M_{\phi r}$0.26±.16; Best double couple: NP1:ϕ_s115.00000°,δ87.00000° ,λ-161.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ-3.00000°. Principal axes: T 2.7980,Plg11.0000°,Azm248.0000°; N -0.0220,Plg71.0000°,Azm124.0000° ; P -2.7790,Plg15.0000°,Azm341.0000° M_o2.78900×10^{16}

ISC	**V**	**22 10 10 18.9–1.4**	**43.37N–.05**	**127.2W–.10**	**14**		**73**	**3-60**
ISCJB	V	22 10 10 18.4–.75	43.42N–.03	127.04W–.08	14	3.1s,2.8b		**¶16587340**
IDC	V	22 10 10 19.4–1.9	43.48N	126.64W	0	3.6,3.6L		
NEIC	V	22 10 10 20.1–.71	43.38N	126.97W	10	3.3L,3.6L		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.0km az=163.5.
IDC Error ellipse: s-maj=30.9km s-min=13.0km az=59.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=4.2km az=70.0.

ISC	**VI**	**21 14 04 17.2–1.7**	**44.10N–.07**	**128.8W–.10**	**15**	**4.0b**	**50**	**4-59**
IDC	VI	21 14 04 08.1–7.9	43.50N	129.19W	0	4.0L,3.7		**¶16646381**
ISCJB	VI	21 14 04 16.6–1.1	44.16N–.04	128.7W–.10	15	3.7b,2.9s		
NEIC	VI	21 14 04 16.2–1.3	44.17N	128.96W	10	3.8b,2.9s		

ISC Event type se.
IDC Error ellipse: s-maj=138.4km s-min=30.2km az=29.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=5.4km az=166.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=7.6km az=75.0.

(34) Off coast of northern California.

ISC	**I**	**02 06 00 27.3–1.8**	**40.52N–.07**	**125.8W–.10**	**13**	**3.1b**	**63**	**2-61**
ISCJB	I	02 06 00 24.6–.74	40.49N–.03	125.87W–.07	13	3.6s,3.3b		**¶16007503**
IDC	I	02 06 00 24.4–2.6	40.60N	125.86W	0	3.7,3.5		
NEIC	I	02 06 00 27.1	40.45N	125.91W	23	3.7L,3.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=167.7.
IDC Error ellipse: s-maj=29.6km s-min=19.1km az=75.0.
NEIC Event type se. After NCEDC.

IDC	**II**	**21 16 22 17.7–3.4**	**41.14N**	**127.31W**	**0**	**3.7,3.5L**		
								¶17192641

IDC Error ellipse: s-maj=59.5km s-min=18.1km az=38.0.

ISC	**II**	**21 16 59 57.9–1.6**	**41.30N–.08**	**126.9W–.10**	**11**	**3.2b,3.1s**	**20**	**3-80**
NEIC	II	21 16 59 55.0	41.18N	127.14W	5	3.1,3.1s		**¶16158826**
ISCJB	II	21 16 59 56.4–1.1	41.32N–.07	126.9W–.10	11	3.2b,3.1s		
IDC	II	21 16 59 58.1–1.8	41.44N	126.67W	0	3.6,3.6L		

ISC Event type se.
NEIC Event type se. After NCEDC.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=9.9km az=150.4.
IDC Error ellipse: s-maj=37.2km s-min=15.5km az=32.0.

ISC	**III**	**06 13 46 38.2–.86**	**40.45N–.07**	**125.15W–.07**	**13**	**4.2s,3.6b**	**55**	**2-98**
BJI	III	06 13 46 33.3	40.50N	125.40W	5	4.8s,4.7b		**¶16245371**
NEIC	III	06 13 46 35.3	40.46N	125.43W	3	4.5W,4.2b		
ISCJB	III	06 13 46 36.8–.58	40.43N–.04	125.16W–.06	13	4.1s,3.7b		
IDC	III	06 13 46 37.5–1.2	40.55N	124.95W	0	3.7L,3.7		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Eureka. Also felt at Hydesville and McKinleyville. After NCEDC. Moment Tensor Solution. M_o8.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=153.2.
IDC Error ellipse: s-maj=16.4km s-min=13.0km az=60.0.

ISC	**III**	**20 10 16 30.7–2.7**	**40.49N–.08**	**125.3W–.10**	**14**		**28**	**2-7**
NEIC	III	20 10 16 30.6	40.39N	125.41W	21	3.5L		**¶16361348**

ISC Event type se.
NEIC Event type se. After NCEDC.

ISC	**IV**	**10 16 21 53.0–3.3**	**40.54N–.06**	**125.66W–.08**	**1–19**		**60**	**1-23**
IDC	IV	10 16 21 52.8–2.9	40.54N	125.69W	0	4.3L,3.7		**¶16525102**
NEIC	IV	10 16 21 53.4	40.46N	125.90W	21	3.9W,3.7		

ISC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=23.3km az=82.0.
NEIC Event type se. After NCEDC. Moment Tensor Solution. M_o8.90000×10^{14}

ISC	**IV**	**14 01 34 39.9–.75**	**40.77N–.05**	**126.47W–.06**	**10**	**4.3b,3.3s**	**100**	**2-98**
BJI	IV	14 01 34 38.1	40.70N	126.50W	10	4.7b,3.3s		**¶16427216**
ISCJB	IV	14 01 34 39.0–.45	40.82N–.03	126.32W–.04	10	4.1b,3.4s		
NEIC	IV	14 01 34 39.8–.62	40.74N	126.40W	10	4.4b,3.4s		
IDC	IV	14 01 34 40.4–2.0	41.01N	126.30W	0	4.3L,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.7km az=41.8.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.6km az=64.0.
IDC Error ellipse: s-maj=36.8km s-min=15.5km az=13.0.

ISC	**VI**	**07 07 32 01.1–1.8**	**41.98N–.05**	**125.6W–.10**	**12**		**26**	**2-61**
ISCJB	VI	07 07 31 59.2–.99	41.97N–.04	125.64W–.09	12	3.1b		**¶16593316**
NEIC	VI	07 07 31 59.3	41.99N	125.81W	5	2.9		
IDC	VI	07 07 32 04.2–20	42.26N	124.84W	0	3.6,3.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.4km az=165.1.
NEIC Event type se. After NCEDC.
IDC Error ellipse: s-maj=446.4km s-min=25.6km az=65.0.

ISC	**VI**	**18 02 41 15.9–.77**	**41.87N–.06**	**126.82W–.08**	**10**	**4.2b,3.8s**	**101**	**2-97**
ISCJB	VI	18 02 41 14.9–.40	41.91N–.03	126.75W–.04	10	4.0b,3.7s		**¶16713639**
IDC	VI	18 02 41 14.9–1.7	42.10N	126.84W	0	4.2L,4.0		
NEIC	VI	18 02 41 16.2–.57	41.88N	126.83W	10	4.2b,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.8km az=40.9.
IDC Error ellipse: s-maj=43.5km s-min=20.3km az=24.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.1km az=218.0.

ISC	**VI**	**18 10 49 09.7–1.7**	**41.87N–.05**	**127.02W–.05**	**3–9**	**4.9b,4.6s**	**438**	**2-154**
BJI	VI	18 10 49 06.7	41.80N	126.90W	10	5.3b,5.0b		**¶16631601**
IDC	VI	18 10 49 08.3–.60	41.83N	126.95W	0	4.5,4.4		
MOS	VI	18 10 49 09.3–1.1	41.82N	126.99W	12	5.1b,4.7s		
ISCJB	VI	18 10 49 10.4–.85	41.93N–.02	126.87W–.03	11–5	4.7b,4.4s		
NEIC	VI	18 10 49 11.4–.27	41.88N	127.00W	10	4.8b,4.4s		
GCMT	VI	18 10 49 11.4–.10	41.93N	127.14W	12	5.2W,4.4s		

ISC Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=35.0.
MOS Error ellipse: s-maj=6.0km s-min=4.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.5km az=38.4.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=38.0. Felt [II] at Eureka.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c126; s126,c244; Duration: 1ŝ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$0.82±.01; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-0.37±.03; Best double couple: NP1:ϕ_s352.00000°,δ57.00000° ,λ-93.00000°. NP2:ϕ_s177.00000°,δ33.00000°,λ-86.00000°. Principal axes: T 0.9190,Plg12.0000°,Azm84.0000°; N -0.0330,Plg2.0000°,Azm354.0000° ; P -0.8860,Plg77.0000°,Azm253.0000° M_o0.90200×10^{17}

(35) Near coast of northern California.

ISC	**I**	**02 22 40 09.5–2.5**	**40.28N–.06**	**124.60W–.09**	**15–12**		**27**	**1-9**
NEIC	I	02 22 40 11.4	40.32N	124.59W	18	3.8L		**¶601792855**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Ferndale, Fortuna and Rio Dell. Also felt at Eureka, Hydesville, Loleta, Petrolia, Scotia and Whitethorn. After NCEDC.

ISC	**III**	**21 20 42 27.0–1.9**	**39.10N–.07**	**123.4W–.10**	**10**		**13**	**0-4**
NEIC	III	21 20 42 26.9	39.12N	123.42W	5	3.5W		**¶16499018**
ISCJB	III	21 20 42 26.2–1.4	39.11N–.08	123.5W–.10	10	3.5W		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Boonville and [II] at Comptche, Mendocino, Philo and Ukiah. Also felt at Albion, Fort Bragg, Santa Rosa, Sonoma and Willows. After NCEDC. Moment Tensor Solution. M_o2.00000×10^{14}
ISCJB Event type fe.

ISC	**III**	**31 11 58 46.9–2.7**	**40.47N–.06**	**124.2W–.10**	**6–13**		**22**	**1-5**
NEIC	III	31 11 58 49.6	40.43N	124.22W	26	3.6W		**¶16577626**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Carlotta and [II] at Ferndale, Fortuna and Rio Dell. Also felt at Hydesville, Redcrest, Redding, Redway and Scotia. After NCEDC. Moment Tensor Solution. M_o3.10000×10^{14}

ISC	**V**	**17 15 20 05.1–1.1**	**39.27N–.03**	**123.21W–.07**	**7**		**26**	**0-6**
ISCJB	V	17 15 20 05.8–.72	39.19N–.04	123.17W–.09	7			**¶16527338**
NEIC	V	17 15 20 06.8	39.23N	123.18W	9	3.7W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=4.8km az=160.7.
NEIC Event type fe. Felt [III] at Potter Valley, Redwood Valley and Ukiah; [II] at Upper Lake and Willits. Also felt at Albion, Boonville, Lakeport, McKinleyville, Point Arena, Rohnert Park and Sacramento. After NCEDC. Moment Tensor Solution. M_o5.10000×10^{14}

(36) Northern California.

ISC	**II**	**23 04 49 41.2–.72**	**39.49N–.03**	**122.96W–.06**	**7**	**4.1b**	**53**	**0-136**
BJI	II	23 04 49 37.8	39.50N	123.00W	15	4.5b		**¶16117345**
IDC	II	23 04 49 39.9–1.6	39.42N	123.00W	0	3.7,3.5		
ISCJB	II	23 04 49 40.0–.49	39.44N–.03	122.95W–.06	7	4.1b,3.5s		
NEIC	II	23 04 49 41.5	39.50N	122.95W	13	4.3W,4.0b		

ISC Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=8.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.7km az=174.3.

NEIC Event type fe. Felt [II] at Fort Bragg, Lakeport, Potter Valley, Redwood Valley, Ukiah and Willits. Also felt at Comptche, Elk, Mendocino, Orland, Philo, Santa Rosa and Vacaville. After NCEDC. Moment Tensor Solution. $M_0$3.40000×10^{15}

NEIC II 23 04 50 14.4 39.49N 122.96W 11 4.2W,4.0b ¶602064547

NEIC Event type se. After NCEDC. Moment Tensor Solution. $M_0$2.50000×10^{15}

ISC III 01 02 19 47.8–.56 38.75N–.04 122.75W–.05 8 4.1b 64 0-100
BJI III 01 02 19 43.0 38.80N 122.80W 5 5.4s,5.1 **¶16166890**
ISCJB III 01 02 19 46.7–.43 38.74N–.03 122.79W–.05 8 5.0s,4.1b
IDC III 01 02 19 47.4–1.0 38.78N 122.68W 0 4.1,4.1s
NEIC III 01 02 19 47.0 38.82N 122.82W 3 4.4W,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.0km az=149.8.
IDC Error ellipse: s-maj=18.0km s-min=10.4km az=46.0.
NEIC Event type fe. Felt [III] at Angwin, Clearlake, Cloverdale, Geyserville, Kelseyville, Lower Lake and Middletown; [II] at Calistoga, Healdsburg, Hidden Valley Lake, Lakeport, Napa, Saint Helena, Santa Rosa and Windsor. Felt in much of Lake, Napa and Sonoma Counties and as far as Sacramento and San Francisco. After NCEDC. Moment Tensor Solution. $M_0$5.40000×10^{15}

ISC III 20 08 17 01.9–.91 38.82N–.03 122.74W–.05 10 22 0-5
NEIC III 20 08 17 01.5 38.79N 122.77W 1 3.5L **¶16487900**
ISCJB III 20 08 17 02.9–.53 38.74N–.03 122.70W–.06 10 3.5L
ISC Event type fe.
NEIC Event type fe. Felt [II] at Santa Rosa. Also felt at Albion, Clearlake, Geyserville, Middletown, Napa, Pittsburg, Sacramento, San Francisco and Vallejo. After NCEDC.
ISCJB Event type fe.

ISC III 20 22 08 34.0–1.0 38.85N–.04 122.75W–.05 10 20 0-5
NEIC III 20 22 08 33.4 38.84N 122.76W 1 3.2L **¶16525038**
ISCJB III 20 22 08 33.9–.74 38.86N–.05 122.81W–.07 10 3.2L
ISC Event type fe.
NEIC Event type fe. Felt at Geyserville, Hayward, Oakland, Pittsburg and San Francisco. After NCEDC.
ISCJB Event type fe.

ISC III 24 21 20 39.5–.79 40.11N–.03 120.08W–.03 10 47 1-6
NEIC III 24 21 20 39.7 40.06N 120.05W 11 3.8L,3.5W **¶16577622**
ISCJB III 24 21 20 40.4–.35 40.07N–.04 119.93W–.04 10 3.8L,3.5W
ISC Event type fe.
NEIC Event type fe. Felt [II] at Herlong. Also felt at Chilcoot and Doyle. After REN. Moment Tensor Solution. $M_0$2.20000×10^{14}
ISCJB Event type fe.

ISC III 24 21 45 23.1–.86 40.10N–.04 120.06W–.04 10 21 1-6
NEIC III 24 21 45 22.9 40.06N 120.04W 11 3.4L **¶601793883**
ISCJB III 24 21 45 23.7–.55 39.98N–.05 120.02W–.05 10 3.4L
ISC Event type fe.
NEIC Event type fe. Felt at Susanville. After REN.
ISCJB Event type fe.

ISC IV 10 09 48 55.3–.93 38.78N–.04 122.73W–.06 8 23 0-18
ISCJB IV 10 09 48 54.6–.53 38.80N–.03 122.72W–.06 8 **¶16532013**
IDC IV 10 09 48 54.9–3.1 38.86N 122.77W 0 3.4,3.3L
NEIC IV 10 09 48 54.4 38.76N 122.74W 2 3.3L,3.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.4km az=160.0.
IDC Error ellipse: s-maj=42.3km s-min=12.4km az=39.0.
NEIC Event type se. After NCEDC.

ISC IV 26 17 43 09.0–.89 38.70N–.04 122.93W–.06 10 48 0-24
IDC IV 26 17 43 07.2–2.8 38.64N 122.93W 0 3.7,3.4 **¶16631210**
ISCJB IV 26 17 43 08.7–.38 38.80N–.03 122.73W–.04 10 3.1s,2.7b
NEIC IV 26 17 43 08.3 38.81N 122.82W 4 3.9W,2.7b
ISC Event type fe.
IDC Error ellipse: s-maj=35.1km s-min=11.2km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=145.9.
NEIC Event type fe. Felt [IV] at Kelseyville. Also felt at Cloverdale, Geyserville, Healdsburg, Lakeport and Middletown. After NCEDC. Moment Tensor Solution. $M_0$8.80000×10^{14}

ISC V 06 09 20 22.2–1.2 38.85N–.03 122.77W–.04 8–10 37 0-18
IDC V 06 09 20 18.5–4.2 38.48N 123.25W 0 3.8,3.4L **¶16709003**
NEIC V 06 09 20 21.7 38.82N 122.79W 4 3.2L,3.4L
ISCJB V 06 09 20 22.0–.60 38.83N–.03 122.72W–.04 4–6 3.2L,3.4L
ISC Event type fe.
NEIC Event type fe. Felt at Calistoga, Kelseyville, Middletown and San Rafael. After NCEDC.
ISCJB Event type fe.

ISC V 09 14 36 47.7–1.1 38.82N–.04 122.80W–.06 8 16 0-18
ISCJB V 09 14 36 46.2–.71 38.86N–.06 122.67W–.09 8 **¶16577243**
NEIC V 09 14 36 47.4 38.80N 122.78W 4 3.3L
IDC V 09 14 36 48.2–4.1 38.74N 122.75W 0 3.7,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=150.5.
NEIC Event type fe. Felt at Calistoga, Geyserville, Healdsburg, Livermore, Middletown, Novato, Oakland, Roseville and San Ramon. After NCEDC.
IDC Error ellipse: s-maj=53.4km s-min=11.0km az=49.0.

ISC V 28 22 55 25.5–.90 38.78N–.03 122.74W–.04 10 42 0-30
IDC V 28 22 55 21.6–1.9 38.64N 123.14W 0 3.6,3.4 **¶16577349**
ISCJB V 28 22 55 24.9–.51 38.75N–.03 122.74W–.06 10 4.2b,3.4
NEIC V 28 22 55 24.8 38.79N 122.76W 4 4.3b,3.7W
ISC Event type fe.
IDC Error ellipse: s-maj=23.7km s-min=12.9km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.8km az=149.3.
NEIC Event type fe. Felt [III] at Calistoga, Geyserville and Middletown; [II] at Cloverdale and Healdsburg. Also felt at Clearlake, Glen Ellen, Guerneville, Hidden Valley Lake, Kelseyville, Lower Lake, Napa, Saint Helena, Santa Rosa, Vacaville and Windsor. After NCEDC. Moment Tensor Solution. $M_0$4.90000×10^{14}

(37) Nevada.

ISC III 16 12 56 20.4–1.3 39.08N–.02 118.76W–.03 2–14 36 1-6
NEIC III 16 12 56 20.5 39.03N 118.81W 6 3.4L **¶16339089**
ISC Event type fe.
NEIC Event type fe. Felt at Gardnerville and Schurz. Also felt at Nevada City, Sacramento and in northeastern Fresno County, California. After REN.

ISC IV 30 17 34 41.0–1.1 38.26N–.02 116.48W–.02 2–10 135 1-24
NEIC IV 30 17 34 41.0 38.25N 116.40W 0 3.8L **¶16708418**
IDC IV 30 17 34 41.3–1.7 38.27N 116.42W 0 3.5L,3.3
ISC Event type se.
NEIC Event type se. After REN.
IDC Error ellipse: s-maj=19.3km s-min=6.2km az=155.0.

(38) Off coast of California.

NEIC I 11 10 09 31.4 33.96N 120.58W 2 3.5L ¶601989160

NEIC Event type se. After PAS.

(39) Central California.

ISC I 08 00 10 17.8–.65 37.20N–.04 121.84W–.05 16 3.9b 77 0-95
BJI I 08 00 10 14.5 37.10N 121.98W 10 5.1b **¶16012667**
IDC I 08 00 10 15.8–.99 37.25N 121.54W 0 3.8,3.8
NEIC I 08 00 10 16.7 37.29N 121.66W 10 4.2b,4.1W
ISCJB I 08 00 10 17.2–.35 37.28N–.03 121.71W–.04 16 4.0b,3.8s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Mount Hamilton and San Jose; [III] at Alameda, Berkeley, Daly City, Fremont, Hayward, Milpitas, Oakland, San Bruno, San Francisco, San Rafael, Santa Clara, Sausalito, Soquel, Sunnyvale and Sunol. Widely felt in northern California. After NCEDC. Moment Tensor Solution. $M_0$1.80000×10^{15}
ISCJB Event type fe.

ISC I 12 08 51 03.8–.66 36.66N–.04 121.54W–.05 10 4.2b,4.0s 153 0-94
ISCJB I 12 08 51 01.7–.30 36.64N–.02 121.63W–.04 10 4.1b,4.0s **¶15965843**
NEIC I 12 08 51 03.6 36.77N 121.50W 8 4.6b,4.5W
IDC I 12 08 51 03.2–.95 36.72N 121.40W 0 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.1km az=146.5.

NEIC Event type fe. Felt [IV] at Hollister, Paicines, Salinas and San Juan Bautista; [III] at Aromas, Big Sur, Boulder Creek, Capitola, Carmel, Castroville, Gilroy, Marina, Moss Landing, Oakland, Pebble Beach, Redwood City, San Carlos, San Francisco, San Jose, San Martin, Santa Cruz, Seaside and Soledad. Felt widely along the coast from Fairfax to Paso Robles and as far inland as Merced and Stockton. After NCEDC. Moment Tensor Solution. $M_0$7.00000×10^{15}
IDC Error ellipse: s-maj=12.7km s-min=8.2km az=51.0.

NEIC I 13 03 54 35.0 36.80N 121.54W 7 3.7W ¶601989282

NEIC Event type fe. Felt [III] at Hollister, Salinas and Santa Cruz. Also felt at Aptos, Gilroy, Marina, Monterey, Morgan Hill, San Juan Bautista, Seaside and Watsonville. After NCEDC. Moment Tensor Solution. $M_0$4.10000×10^{14}

ISC I 13 04 00 34.2–1.6 36.68N–.04 121.78W–.04 5–11 87 0-17
IDC I 13 04 00 33.4–1.6 36.67N 121.88W 0 3.7,3.5 **¶15928089**
NEIC I 13 04 00 35.9 36.80N 121.54W 7 3.9W,3.5
ISC Event type fe.
IDC Error ellipse: s-maj=17.8km s-min=12.9km az=60.0.
NEIC Event type fe. Felt [III] at Aptos, Aromas, Carmel, Castroville, Gilroy, Hollister, Marina, Monterey, Morgan Hill, Pacific Grove, Salinas, San Jose, San Juan Bautista, San Martin, Seaside and Watsonville. Felt widely in the Monterey Bay and San Francisco Bay areas from San Rafael to Big Sur. After NCEDC. Moment Tensor Solution. $M_0$9.30000×10^{14}

ISC I 27 15 29 45.1–.97 35.08N–.02 119.00W–.02 14–8 63 0-4
ISCJB I 27 15 29 44.7–.42 35.08N–.02 118.99W–.02 5–4 **¶601792961**
NEIC I 27 15 29 46.2 35.08N 118.99W 20 3.2L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=161.4.
NEIC Event type fe. Felt [II] at Lebec. Also felt at Bakersfield and Frazier Park. After PAS.

ISC II 23 03 16 14.1–1.1 35.93N–.02 117.65W–.02 2–11 54 0-3
NEIC II 23 03 16 15.1 35.97N 117.66W 2 2.8L **¶16339057**
ISC Event type se.
NEIC Event type se. After PAS.

ISC II 23 05 33 53.1–.95 35.96N–.02 117.66W–.02 8–8 53 0-3
NEIC II 23 05 33 53.5 35.97N 117.67W 2 2.9L **¶16425193**
ISC Event type se.
NEIC Event type se. After PAS.

ISC II 24 20 05 47.1–.83 36.03N–.02 118.34W–.03 7 33 0-6
ISCJB II 24 20 05 47.0–.37 36.03N–.03 118.34W–.03 7 **¶16342398**
NEIC II 24 20 05 47.5 36.04N 118.36W 1 3.5L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.5km az=29.7.
NEIC Event type fe. Felt at Delano. After PAS.

ISC III 03 05 33 03.7–2.0 36.82N–.05 121.67W–.07 5–10 33 0-5
NEIC III 03 05 33 07.0 36.81N 121.54W 7 3.5L **¶16425222**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Carmel, Hollister and Salinas; [II] at Aptos, Castroville, Marina, Monterey, San Juan Bautista and Seaside. Also felt at Carmel Valley, Felton, Los Gatos, Gilroy, San Jose and Watsonville. After NCEDC.

ISC III 17 17 18 29.7–1.1 36.63N–.05 121.25W–.05 10 27 0-4
ISCJB III 17 17 18 29.1–.64 36.59N–.04 121.33W–.05 10 **¶16484839**
NEIC III 17 17 18 30.1 36.62N 121.23W 6 3.3W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=42.8.
NEIC Event type fe. Felt [III] at Gonzales and [II] at Hollister, Salinas and Soledad. Also felt at Atascadero, Carmel Valley, Castroville, Chualar, Modesto, Monterey and Seaside. After NCEDC. Moment Tensor Solution.

ISC III 17 17 30 46.6–1.5 36.59N–.06 121.3W–.10 14–15 18 0-3
NEIC III 17 17 30 47.4 36.62N 121.23W 6 3.0L **¶16499012**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Seaside. Also felt at Gonzales, Paicines, Salinas and Soledad. After NCEDC.

ISC IV 05 11 56 49.0–1.6 35.98N–.03 121.71W–.05 6–9 4.0b 213 1-101
ISCJB IV 05 11 56 48.2–.61 35.95N–.02 121.65W–.03 8–4 4.6s,4.0b **¶16411026**
IDC IV 05 11 56 49.8–1.0 36.02N 121.57W 0 3.9,3.8
NEIC IV 05 11 56 50.4 36.07N 121.62W 11 4.3b,3.9W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.4km az=147.4.
IDC Error ellipse: s-maj=18.8km s-min=9.1km az=49.0.
NEIC Event type fe. Felt [II] at Big Sur, Carmel, Carmel Valley, Monterey, Pacific Grove, Pebble Beach, Salinas, Santa Cruz, Seaside and Watsonville. Also felt at Aptos, Atascadero, Capitola, Felton, Fremont, Gilroy, Hollister, King City, Lockwood, Redwood City, San Francisco and Scotts Valley. After NCEDC. Moment Tensor Solution. $M_0$8.50000×10^{14}

ISC IV 26 16 16 44.0–.94 35.98N–.02 117.67W–.02 8–8 82 0-7
NEIC IV 26 16 16 44.1 35.97N 117.65W 4 3.2L **¶16476098**
ISC Event type se.
NEIC Event type se. After PAS.

(40) California-Nevada border region.

NEIC I 01 23 57 24.0 38.83N 119.79W 1 3.5L ¶601988598

NEIC Event type fe. Felt [II] at Markleeville, Pioneer and South Lake Tahoe. Also felt at Foresthill, Georgetown, Homewood, Pollock Pines, Twin Bridges, Volcano and West Point. Felt [II] at Gardnerville, Nevada. Also felt at Carson City, Minden and Reno. After REN.

ISC I 22 17 26 08.7–.98 38.52N–.02 118.30W–.02 7–8 97 0-15
IDC I 22 17 26 08.9–.74 38.60N 118.36W 0 3.6L,3.3 **¶15959228**
NEIC I 22 17 26 09.2 38.55N 118.38W 14 4.0L,3.3
ISC Event type se.
IDC Error ellipse: s-maj=10.7km s-min=5.3km az=92.0.
NEIC Event type se. After REN.

ISC I 22 17 29 25.8–.41 38.58N–.02 118.33W–.02 10 3.7b 131 0-95
BJI I 22 17 29 22.7 38.50N 118.40W 8 5.3b,5.2b **¶15958007**
ISCJB I 22 17 29 25.5–.23 38.61N–.02 118.35W–.03 10 4.2b,4.0s
NEIC I 22 17 29 25.7 38.54N 118.38W 8 4.3L,4.0W
IDC I 22 17 29 25.6–.63 38.57N 118.31W 0 4.0L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=6.3.
NEIC Event type fe. Felt [II] at Hawthorne. Also felt at Fallon. After REN. Moment Tensor Solution.
IDC Error ellipse: s-maj=10.3km s-min=5.8km az=99.0.

ISC I 22 19 21 03.9–1.2 38.53N–.02 118.40W–.03 0–10 3.1b 74 0-89
NEIC I 22 19 21 04.6 38.54N 118.38W 14 4.2L **¶15959231**
IDC I 22 19 21 04.3–.55 38.60N 118.28W 0 3.6L,3.4
ISC Event type fe.
NEIC Event type fe. Felt [II] at Hawthorne. After REN.
IDC Error ellipse: s-maj=5.2km s-min=4.4km az=123.0.

IDC I 28 03 29 12.4–273 36.17N 116.25W 0 ¶17191168

IDC Error ellipse: s-maj=127.1km s-min=58.3km az=3.0.

ISC II 08 00 28 40.5–1.1 37.24N–.02 117.80W–.02 5–9 72 0-58
IDC II 08 00 28 39.5–2.0 37.19N 117.82W 0 3.4,3.3 **¶16342596**
NEIC II 08 00 28 40.9 37.26N 117.83W 8 3.9L,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=10.7km az=40.0.
NEIC Event type se. After REN.

ISC II 09 23 03 20.3–1.2 37.45N–.02 118.87W–.03 2–13 39 0-4
ISCJB II 09 23 03 20.8–.73 37.47N–.03 118.82W–.04 4–6 **¶16358562**
NEIC II 09 23 03 21.0 37.47N 118.81W 11 2.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.4km az=149.1.
NEIC Event type se. After NCEDC.

ISC II 10 14 55 42.6–1.1 38.54N–.02 118.38W–.02 11–10 68 1-5
NEIC II 10 14 55 43.0 38.53N 118.38W 10 3.8L **¶16339718**
ISC Event type fe.
NEIC Event type fe. Felt at Hawthorne. After REN.

ISC II 22 08 46 09.0–.93 37.16N–.02 117.35W–.02 11–8 63 0-7
NEIC II 22 08 46 09.2 37.16N 117.38W 12 3.1L **¶16158830**
ISC Event type se.
NEIC Event type se. After REN.

ISC III 03 00 29 00.9–1.0 37.41N–.02 118.38W–.03 13–9 43 0-5
ISCJB III 03 00 28 59.8–.60 37.46N–.03 118.37W–.03 3–6 **¶16911898**
NEIC III 03 00 29 01.1 37.40N 118.38W 14 3.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.7km az=17.2.

NEIC Event type fe. Felt [II] at Bishop. Also felt at Independence and Tollhouse. After NCEDC.
ISC III 03 02 58 16.9–.98 37.41N–.02 118.37W–.02 14–9 54 0-7
NEIC III 03 02 58 17.2 37.40N 118.37W 15 3.7L,3.5W **¶16359825**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Bishop. Also felt at Big Pine. After NCEDC. Moment Tensor Solution. $M_0$2.20000×10^{14}
ISC III 15 18 11 03.0–.70 38.41N–.02 118.75W–.02 10 87 0-6
NEIC III 15 18 11 02.8 38.39N 118.73W 12 3.2L **¶16484835**
ISC Event type se.
NEIC Event type se. After REN.
ISC III 15 18 14 41.1–.74 38.38N–.02 118.75W–.02 10 97 0-10
NEIC III 15 18 14 40.7 38.39N 118.73W 12 3.7L **¶601793828**
ISCJB III 15 18 14 41.4–.28 38.42N–.02 118.63W–.03 10 3.7L
ISC Event type se.
NEIC Event type se. After REN.
ISCJB Event type se.
ISC III 27 01 51 28.0–.92 37.15N–.02 117.38W–.02 10–7 88 0-7
NEIC III 27 01 51 27.8 37.16N 117.38W 13 3.3L **¶16362948**
ISC Event type se.
NEIC Event type se. After REN.
ISC III 28 16 51 14.1–.93 37.17N–.02 117.37W–.02 10–8 53 0-4
NEIC III 28 16 51 14.3 37.16N 117.39W 13 2.5L **¶16392126**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 10 21 02 42.4–.87 36.52N–.02 116.98W–.02 13–6 60 0-5
NEIC IV 10 21 02 42.5 36.53N 116.97W 13 2.9L,2.6L **¶16596700**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 11 00 13 11.9–1.2 38.36N–.02 118.78W–.02 0–11 48 0-15
NEIC IV 11 00 13 11.8 38.34N 118.75W 11 3.3L **¶16525104**
IDC IV 11 00 13 12.9–1.3 38.37N 118.78W 0 3.5L,3.4
ISC Event type se.
NEIC Event type se. After REN.
IDC Error ellipse: s-maj=9.7km s-min=7.3km az=28.0.
ISC IV 11 00 20 17.2–.83 38.30N–.03 118.71W–.03 9 32 1-6
NEIC IV 11 00 20 16.9 38.37N 118.74W 15 3.6L **¶16416200**
ISCJB IV 11 00 20 17.1–.40 38.36N–.03 118.72W–.05 9 3.6L
ISC Event type se.
NEIC Event type se. After REN.
ISCJB Event type se.
ISC IV 11 00 21 17.2–.56 38.23N–.02 118.73W–.02 10 3.5b,3.5s 87 0-101
IDC IV 11 00 21 16.2–1.3 38.18N 118.75W 0 3.8,3.7L **¶602546088**
NEIC IV 11 00 21 17.0 38.37N 118.75W 9 4.0L,3.9W
ISCJB IV 11 00 21 19.0–.24 38.32N–.02 118.72W–.04 10 4.1b,3.5s
ISC Event type se.
NEIC Event type se. After REN. Moment Tensor Solution. s9 Moment tensor: Scale 10^{14}Nm; M_{rr}-7.24 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$7.44 $M_{r\theta}$1.33 $M_{\theta\phi}$0.62 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s195.00000° ,δ45.00000°,λ-75.00000°. NP2:ϕ_s354.00000°,δ47.00000°,λ-105.00000°. Principal axes: T 7.4900,Plg1.0000°,Azm94.0000°; N 0.0000,Plg11.0000°,Azm4.0000° ; P -7.5000,Plg79.0000°,Azm190.0000° $M_0$7.50000×10^{14}
ISCJB Event type se.
ISC IV 11 00 22 21.5–.67 38.42N–.03 118.73W–.03 9 3.5b 31 0-100
ISCJB IV 11 00 22 21.9–.39 38.34N–.03 118.70W–.04 9 3.7b **¶17200515**
NEIC IV 11 00 22 21.1 38.38N 118.74W 14 4.2L,3.9W
IDC IV 11 00 22 22.0–1.1 38.31N 118.75W 0 3.8,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=148.8.
NEIC Event type fe. Felt [III] at Hawthorne. Also felt at Yerington. After REN. Moment Tensor Solution. s9 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.02 $M_{\theta\theta}$-3.26 $M_{\phi\phi}$8.29 $M_{r\theta}$-4.08 $M_{\theta\phi}$-0.43 $M_{\phi r}$0.24 Best double couple: NP1:ϕ_s30.00000°,δ55.00000°,λ-40.00000°. NP2:ϕ_s146.00000° ,δ58.00000°,λ-138.00000°. Principal axes: T 8.3200,Plg2.0000°,Azm267.0000° ; N 0.0000,Plg39.0000°,Azm176.0000°; P -8.3100,Plg51.0000°,Azm360.0000° $M_0$8.30000×10^{14}
IDC Error ellipse: s-maj=14.9km s-min=7.0km az=174.0.
ISC IV 11 01 04 59.9–.77 38.40N–.02 118.74W–.03 10 31 1-6
ISCJB IV 11 01 05 00.6–.44 38.42N–.03 118.80W–.05 10 **¶16487708**
NEIC IV 11 01 05 00.1 38.38N 118.74W 6 3.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.9km az=20.6.
NEIC Event type se. After REN.
ISC IV 13 22 10 08.8–1.1 38.33N–.02 118.74W–.02 0–7 4.3b 157 0-149
NEIC IV 13 22 10 08.3 38.37N 118.75W 16 4.5b,4.4L **¶16426892**
IDC IV 13 22 10 08.9–.57 38.32N 118.77W 0 4.2,4.1
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hawthorne and [II] at Yerington. Also felt at Carson City, Silver Springs and Washoe Valley. Felt at Sacramento, California. After REN. Moment Tensor Solution. s44 Moment tensor: Scale 10^{15}Nm; M_{rr}-3.93 $M_{\theta\theta}$0.03 $M_{\phi\phi}$3.90 $M_{r\theta}$0.21 $M_{\theta\phi}$0.28 $M_{\phi r}$-0.82 Best double couple: NP1:ϕ_s188.00000°,δ39.00000°,λ-84.00000°. NP2:ϕ_s0.00000° ,δ51.00000°,λ-95.00000°. Principal axes: T 4.0000,Plg6.0000°,Azm94.0000° ; N 0.0300,Plg4.0000°,Azm3.0000°; P -4.0300,Plg83.0000°,Azm241.0000° $M_0$4.00000×10^{15}
IDC Error ellipse: s-maj=10.3km s-min=5.3km az=173.0.
ISC IV 13 22 15 20.3–.98 38.41N–.04 118.78W–.04 12 15 0-31
ISCJB IV 13 22 15 20.1–.63 38.44N–.05 118.92W–.05 12 3.1b **¶16426893**
NEIC IV 13 22 15 20.6 38.38N 118.75W 12 3.6L
IDC IV 13 22 15 23.5–1.0 38.38N 118.75W 0 4.1L,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.2km az=158.5.
NEIC Event type se. After REN.
IDC Error ellipse: s-maj=9.2km s-min=6.8km az=23.0.
ISC IV 13 22 16 08.0–1.2 38.44N–.03 118.73W–.03 7–11 43 0-31
NEIC IV 13 22 16 08.7 38.39N 118.74W 15 4.2L,4.1W **¶16587502**
IDC IV 13 22 16 09.8–1.0 38.38N 118.75W 0 4.1L,3.8
ISC Event type fe.
NEIC Event type fe. Felt at Hawthorne. After REN. Moment Tensor Solution. s18 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.41 $M_{\theta\theta}$-1.12 $M_{\phi\phi}$1.52 $M_{r\theta}$-0.68 $M_{\theta\phi}$0.20 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s45.00000°,δ65.00000°,λ-20.00000°. NP2:ϕ_s144.00000°,δ72.00000°,λ-154.00000°. Principal axes: T 1.5500,Plg5.0000°,Azm273.0000°; N 0.0000,Plg58.0000°,Azm176.0000° ; P -1.5500,Plg31.0000°,Azm6.0000° $M_0$1.60000×10^{15}
IDC Error ellipse: s-maj=10.6km s-min=6.4km az=19.0.
ISC IV 13 22 59 18.8–1.2 38.41N–.03 118.74W–.03 13–12 30 1-5
NEIC IV 13 22 59 19.2 38.39N 118.74W 16 3.3L **¶16587499**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 14 12 05 56.0–1.5 38.37N–.05 118.78W–.04 7–16 17 1-4
NEIC IV 14 12 05 56.0 38.38N 118.75W 13 3.1L **¶16587505**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 15 13 17 57.1–1.4 38.41N–.04 118.75W–.04 15–11 22 1-4
ISCJB IV 15 13 17 56.0–1.2 38.44N–.03 118.72W–.04 11–8 **¶16577830**
NEIC IV 15 13 17 57.7 38.40N 118.73W 15 3.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.1km az=37.9.
NEIC Event type se. After REN.
ISC IV 15 13 33 55.0–1.1 38.39N–.02 118.73W–.02 3–9 3.5b 89 0-31
IDC IV 15 13 33 54.4–1.1 38.12N 118.76W 0 3.8,3.8L **¶16440446**
NEIC IV 15 13 33 55.9 38.40N 118.73W 13 4.3L,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=11.9km s-min=6.8km az=156.0.
NEIC Event type fe. Felt [II] at Hawthorne. After REN. Moment Tensor Solution. s34 Moment tensor: Scale 10^{14}Nm; M_{rr}-6.29 $M_{\theta\theta}$1.37 $M_{\phi\phi}$4.92 $M_{r\theta}$1.67 $M_{\theta\phi}$0.31 $M_{\phi r}$-0.89 Best double couple: NP1:ϕ_s196.00000°,δ42.00000°,λ-72.00000°. NP2:ϕ_s352.00000° ,δ50.00000°,λ-106.00000°. Principal axes: T 5.0000,Plg4.0000°,Azm93.0000° ; N 1.7100,Plg12.0000°,Azm2.0000°; P -6.7100,Plg77.0000°,Azm201.0000° $M_0$6.00000×10^{14}
ISC IV 15 17 06 39.0–.62 38.43N–.03 118.72W–.02 10 3.4b 86 0-31
ISCJB IV 15 17 06 38.4–.24 38.40N–.02 118.69W–.02 10 3.3b,3.2s **¶16440447**
NEIC IV 15 17 06 38.2 38.40N 118.73W 16 3.9L,3.2s
IDC IV 15 17 06 39.2–1.0 38.46N 118.73W 0 3.8,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.6km az=2.9.
NEIC Event type se. After REN.

IDC Error ellipse: s-maj=14.8km s-min=6.4km az=21.0.
ISC IV 15 17 24 25.7–.50 38.37N–.02 118.70W–.02 10 3.7b 170 0-101
ISCJB IV 15 17 24 25.7–.18 38.40N–.02 118.67W–.02 10 3.8b,3.0s **¶16437973**
NEIC IV 15 17 24 25.0 38.40N 118.74W 16 4.0L,4.0b
IDC IV 15 17 24 25.7–.85 38.42N 118.75W 0 4.0L,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=2.2km az=144.8.
NEIC Event type fe. Felt [II] at Hawthorne. Felt at Bridgeport and Mariposa, California. After REN. Moment Tensor Solution. s34 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.55 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$6.81 $M_{r\theta}$0.86 $M_{\theta\phi}$-0.50 $M_{\phi r}$-0.44 Best double couple: NP1:ϕ_s187.00000°,δ44.00000°,λ-75.00000°. NP2:ϕ_s346.00000°,δ48.00000°,λ-104.00000°. Principal axes: T 6.8600,Plg2.0000° ,Azm86.0000°; N -1.1300,Plg11.0000°,Azm356.0000°; P -5.7300,Plg79.0000° ,Azm188.0000° $M_0$6.40000×10^{14}
IDC Error ellipse: s-maj=14.4km s-min=5.9km az=13.0.
ISC IV 15 18 21 32.1–.61 38.28N–.02 118.78W–.02 10 110 0-31
NEIC IV 15 18 21 31.9 38.39N 118.75W 10 4.0L,3.5W **¶16587527**
ISCJB IV 15 18 21 32.2–.24 38.40N–.02 118.73W–.02 10 2.7b,3.5W
IDC IV 15 18 21 33.1–1.1 38.53N 118.73W 0 3.7L,3.3
ISC Event type fe.
NEIC Event type fe. Felt [II] at Hawthorne. After REN. Moment Tensor Solution. s29 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.75 $M_{\theta\theta}$-1.18 $M_{\phi\phi}$1.92 $M_{r\theta}$0.96 $M_{\theta\phi}$-0.82 $M_{\phi r}$0.98 Best double couple: NP1:ϕ_s307.00000°,δ52.00000°,λ-161.00000°. NP2:ϕ_s205.00000° ,δ75.00000°,λ-40.00000°. Principal axes: T 2.3100,Plg15.0000°,Azm261.0000° ; N 0.0000,Plg48.0000°,Azm8.0000°; P -2.3200,Plg38.0000°,Azm159.0000° $M_0$2.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.7km az=18.5.
IDC Error ellipse: s-maj=16.8km s-min=6.3km az=29.0.
ISC IV 16 09 46 30.6–1.1 38.35N–.02 118.18W–.03 4–11 61 1-8
NEIC IV 16 09 46 32.0 38.28N 118.19W 13 4.0L,3.6W **¶16450739**
ISC Event type se.
NEIC Event type se. After REN. Moment Tensor Solution. s18 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.56 $M_{\theta\theta}$-2.15 $M_{\phi\phi}$2.71 $M_{r\theta}$1.24 $M_{\theta\phi}$1.73 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s335.00000° ,δ71.00000°,λ-164.00000°. NP2:ϕ_s240.00000°,δ75.00000°,λ-20.00000°. Principal axes: T 3.2700,Plg3.0000°,Azm288.0000°; N 0.0000,Plg65.0000°,Azm25.0000° ; P -3.2700,Plg25.0000°,Azm197.0000° $M_0$3.30000×10^{14}
ISC IV 17 00 45 36.9–1.0 38.41N–.02 118.73W–.02 1–7 4.4b,4.1s 197 0-149
NEIC IV 17 00 45 37.0 38.39N 118.73W 15 4.6L,4.5W **¶16442391**
GCMT IV 17 00 45 37.0–.40 38.47N 118.71W 13–1 4.8W,4.5W
IDC IV 17 00 45 37.9–.52 38.38N 118.70W 0 4.4,4.3b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hawthorne. Also felt at Reno. Felt at Lee Vining, California. After REN. Moment Tensor Solution. $M_0$6.80000×10^{15}
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c22; s73,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.13 $M_{\theta\theta}$0.09±.08; $M_{\phi\phi}$1.42±.09; $M_{r\theta}$0.92±.29; $M_{\theta\phi}$0.34±.06; $M_{\phi r}$-1.00±.26; Best double couple: NP1:ϕ_s344.00000°,δ65.00000° ,λ-115.00000°. NP2:ϕ_s212.00000°,δ35.00000°,λ-48.00000°. Principal axes: T 1.7300,Plg16.0000°,Azm92.0000°; N 0.4990,Plg23.0000°,Azm355.0000° ; P -2.2320,Plg61.0000°,Azm215.0000° $M_0$1.98100×10^{16}
IDC Error ellipse: s-maj=8.0km s-min=5.3km az=7.0.
ISC IV 17 00 55 47.8–.67 38.27N–.03 118.79W–.03 10 3.3s 64 0-31
NEIC IV 17 00 55 46.3 38.37N 118.73W 13 4.1L,4.0W **¶16442393**
IDC IV 17 00 55 47.0–.89 38.32N 118.69W 0 4.0,3.7L
ISCJB IV 17 00 55 47.4–.26 38.30N–.02 118.71W–.03 10 3.5b,3.4s
ISC Event type fe.
NEIC Event type fe. Felt at Hawthorne. After REN. Moment Tensor Solution. $M_0$1.30000×10^{15}
ISCJB Event type fe.
NEIC IV 17 00 57 50.0 38.36N 118.74W 15 3.5L
¶16631127
NEIC Event type se. After REN.
ISC IV 17 01 19 25.1–1.2 38.43N–.02 118.74W–.03 1–10 55 0-24
IDC IV 17 01 19 25.7–1.9 38.42N 118.80W 0 3.4,3.3L **¶16545154**
NEIC IV 17 01 19 26.2 38.40N 118.74W 12 3.7L,3.3L
ISC Event type fe.
IDC Error ellipse: s-maj=20.9km s-min=11.5km az=13.0.
NEIC Event type fe. Felt at Hawthorne. After REN.
ISC IV 18 04 43 02.1–.74 38.45N–.02 118.78W–.03 10 30 1-6
ISCJB IV 18 04 43 02.4–.46 38.47N–.03 118.80W–.04 10 **¶16487725**
NEIC IV 18 04 43 02.0 38.42N 118.76W 3 3.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.1km az=0.2.
NEIC Event type se. After REN.
ISC IV 18 05 42 26.8–1.3 38.46N–.03 118.77W–.03 3–12 29 1-5
NEIC IV 18 05 42 27.4 38.41N 118.75W 0 3.0L **¶16631134**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 24 02 30 26.6–.69 38.45N–.02 118.72W–.02 10 80 0-7
NEIC IV 24 02 30 26.8 38.42N 118.72W 2 3.5L **¶16476069**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 25 00 03 20.6–1.4 38.41N–.03 118.72W–.04 0–16 27 1-5
NEIC IV 25 00 03 21.3 38.41N 118.73W 0 3.3L **¶601790667**
ISC Event type se.
NEIC Event type se. After REN.
ISC IV 27 13 23 35.2–.77 38.38N–.02 118.67W–.03 10 45 1-6
ISCJB IV 27 13 23 35.9–.42 38.49N–.03 118.69W–.04 10 **¶16476105**
NEIC IV 27 13 23 35.5 38.41N 118.73W 1 3.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=34.4.
NEIC Event type se. After REN.
ISC IV 27 19 19 22.2–1.3 38.35N–.03 118.61W–.04 1–10 88 0-31
NEIC IV 27 19 19 20.6 38.41N 118.72W 3 4.3L,3.9W **¶16485049**
IDC IV 27 19 19 21.2–.91 38.39N 118.71W 0 4.0L,3.9
ISC Event type fe.
NEIC Event type fe. Felt [II] at Hawthorne. Also felt at Carson City and Yerington. After REN. Moment Tensor Solution. $M_0$9.60000×10^{14}
IDC Error ellipse: s-maj=12.6km s-min=6.5km az=9.0.
ISC IV 28 00 49 56.4–.79 38.44N–.02 118.69W–.02 9 49 1-8
NEIC IV 28 00 49 56.6 38.42N 118.72W 2 3.7L **¶16681493**
ISC Event type fe.
NEIC Event type fe. Felt at Gardnerville. After REN.
ISC V 03 21 41 49.6–1.0 36.38N–.02 117.88W–.02 6–8 3.9b,3.4s 165 0-103
NEIC V 03 21 41 49.8 36.40N 117.87W 2 4.5L,3.4s **¶16491551**
IDC V 03 21 41 49.0–.88 36.35N 117.95W 0 3.9,3.8L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Lone Pine and [II] at Ridgecrest, Springville, Trona and Wasco. Also felt at Bakersfield, Independence, Inyokern, Lindsay, Porterville, Tollhouse and Visalia. After PAS.
IDC Error ellipse: s-maj=16.0km s-min=6.7km az=68.0.
ISC V 04 08 10 45.6–1.0 36.38N–.02 117.88W–.02 5–9 53 0-6
ISCJB V 04 08 10 45.3–.46 36.38N–.02 117.87W–.02 6–4 **¶16708771**
NEIC V 04 08 10 45.9 36.39N 117.87W 2 3.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=24.4.
NEIC Event type se. After PAS.
ISC V 09 09 46 24.8–.72 38.42N–.02 118.73W–.02 10 83 0-28
ISCJB V 09 09 46 25.0–.27 38.48N–.02 118.65W–.03 10 2.8b,2.7s **¶16505596**
IDC V 09 09 46 24.5–1.0 38.41N 118.78W 0 3.6L,3.4
NEIC V 09 09 46 24.2 38.42N 118.74W 2 3.9L,3.6W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=160.0.
IDC Error ellipse: s-maj=10.6km s-min=7.0km az=13.0.
NEIC Event type fe. Felt [II] at Hawthorne. After REN. Moment Tensor Solution. s35 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.88 $M_{\theta\theta}$-1.89 $M_{\phi\phi}$2.77 $M_{r\theta}$1.13 $M_{\theta\phi}$0.44 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s324.00000°,δ56.00000°,λ-165.00000°. NP2:ϕ_s225.00000° ,δ78.00000°,λ-35.00000°. Principal axes: T 3.0500,Plg14.0000°,Azm278.0000° ; N -0.4200,Plg53.0000°,Azm28.0000°; P -2.6200,Plg33.0000°,Azm179.0000° $M_0$2.90000×10^{14}
ISC V 10 18 21 51.5–.65 38.30N–.02 118.12W–.02 12–6 85 0-10
NEIC V 10 18 21 52.2 38.29N 118.18W 16 3.6L **¶16505614**
ISC Event type fe.

NEIC Event type fe. Felt at Incline Village. After REN.
ISC V 11 08 06 26.4–1.0 37.38N–.03 118.69W–.03 12–9 36 0-4
ISCJB V 11 08 06 26.5–.64 37.40N–.03 118.73W–.03 10–5 ¶16719702
NEIC V 11 08 06 26.2 37.39N 118.69W 14 3.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.9km az=43.8.
NEIC Event type se. After NCEDC.
ISC V 12 06 14 18.1–.86 38.49N–.03 118.71W–.03 9 22 1-6
ISCJB V 12 06 14 17.9–.57 38.54N–.03 118.69W–.05 9 ¶16722563
NEIC V 12 06 14 19.0 38.42N 118.73W 4 3.0L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=12.8.
NEIC Event type se. After REN.
ISC V 12 16 23 47.8–1.1 38.39N–.02 118.72W–.02 2–9 3.1s 151 0-50
NEIC V 12 16 23 49.0 38.42N 118.72W 0 4.1L,3.9W ¶16506976
IDC V 12 16 23 48.7–.94 38.44N 118.80W 0 3.8,3.8L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Hawthorne. Also felt at Carson City. After REN. Moment Tensor Solution. s78 Moment tensor: Scale 10^{14}Nm; M_{rr}-9.19 $M_{\theta\theta}$1.51 $M_{\phi\phi}$7.68 $M_{r\theta}$0.17 $M_{\theta\phi}$4.42 $M_{\phi r}$-1.08 Best double couple: NP1:ϕ_s212.00000°,δ43.00000°,λ-84.00000°. NP2:ϕ_s23.00000° ,δ48.00000°,λ-96.00000°. Principal axes: T 10.0000,Plg3.0000°,Azm117.0000° ; N -0.7000,Plg4.0000°,Azm27.0000°; P -9.3000,Plg85.0000°,Azm239.0000° $M_0$9.70000×10^{14}
IDC Error ellipse: s-maj=8.9km s-min=6.7km az=20.0.
ISC V 19 17 23 50.7–.97 38.41N–.04 118.74W–.04 9 20 1-5
ISCJB V 19 17 23 50.9–.71 38.47N–.04 118.81W–.06 9 ¶16722572
NEIC V 19 17 23 50.5 38.42N 118.74W 4 3.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.0km az=16.9.
NEIC Event type fe. Felt at Hawthorne. After REN.
ISC V 19 21 00 11.9–1.2 37.15N–.03 117.37W–.03 12–12 23 0-4
NEIC V 19 21 00 12.0 37.16N 117.38W 14 3.4L ¶16853816
ISC Event type fe.
NEIC Event type fe. Felt at Las Vegas. Also felt at Death Valley, California. After REN.
ISC V 20 00 20 47.4–1.4 38.37N–.03 118.66W–.04 3–13 28 0-28
NEIC V 20 00 20 46.0 38.42N 118.74W 2 3.6L ¶16591593
IDC V 20 00 20 47.2–.92 38.41N 118.77W 0 3.4,3.3
ISC Event type se.
NEIC Event type se. After REN.
IDC Error ellipse: s-maj=8.2km s-min=6.4km az=25.0.
ISC V 27 19 45 48.9–.54 38.40N–.02 118.67W–.02 10 3.8b 146 0-101
ISCJB V 27 19 45 48.8–.19 38.41N–.02 118.68W–.02 10 4.3b,3.6s ¶16577333
NEIC V 27 19 45 48.5 38.44N 118.73W 3 4.2L,3.8W
IDC V 27 19 45 48.9–.92 38.42N 118.75W 0 3.9,3.9L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.3km az=135.6.
NEIC Event type fe. Felt [III] at Hawthorne. After REN. Moment Tensor Solution. s18 Moment tensor: Scale 10^{14}Nm; M_{rr}-6.31 $M_{\theta\theta}$1.13 $M_{\phi\phi}$5.18 $M_{r\theta}$0.00 $M_{\theta\phi}$2.42 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s205.00000°,δ45.00000°,λ-90.00000°. NP2:ϕ_s25.00000° ,δ45.00000°,λ-90.00000°. Principal axes: T 6.3100,Plg0.0000°,Azm115.0000° ; N 0.0000,Plg0.0000°,Azm205.0000°; P -6.3100,Plg90.0000°,Azm0.0000° $M_0$6.30000×10^{14}
IDC Error ellipse: s-maj=13.7km s-min=5.9km az=11.0.
ISC V 28 16 21 15.7–.70 38.44N–.02 118.75W–.02 10 54 0-24
NEIC V 28 16 21 15.5 38.42N 118.74W 5 3.3L ¶16577345
ISCJB V 28 16 21 16.0–.34 38.49N–.02 118.78W–.04 10 2.8b
IDC V 28 16 21 18.0–.92 38.65N 118.59W 0 3.5L,3.3
ISC Event type fe.
NEIC Event type fe. Felt at Hawthorne. After REN.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=156.1.
IDC Error ellipse: s-maj=23.0km s-min=5.8km az=50.0.

(41) Southern Nevada.

IDC II 23 04 03 22.1–307 37.08N 116.06W 0
¶17192735
IDC Error ellipse: s-maj=124.3km s-min=77.1km az=177.0.

(42) Western Arizona.

ISC I 23 12 16 47.4–.69 34.82N–.03 112.10W–.02 10 85 1-28
IDC I 23 12 16 46.0–1.3 34.74N 112.21W 0 3.4,3.3 ¶15977979
NEIC I 23 12 16 47.2–.27 34.84N 112.09W 5 3.6L,3.3
ISC Event type fe.
IDC Error ellipse: s-maj=22.9km s-min=10.7km az=46.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=155.0. Felt [III] at Sedona. Also felt at Mayer and Prescott.
ISC III 18 19 54 45.7–.65 34.82N–.02 112.08W–.02 10 123 1-28
IDC III 18 19 54 44.1–.78 34.88N 112.12W 0 3.7L,3.6 ¶16339131
ISCJB III 18 19 54 44.9–.21 34.85N–.02 112.08W–.02 10 3.1b,3.6
NEIC III 18 19 54 45.6–.22 34.84N 112.09W 5 3.8L,3.6
ISC Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=8.6km az=36.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.4km az=160.4.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=146.0. Felt [III] at Clarkdale and Cornville and [II] at Chino Valley, Cottonwood and Sedona. Also felt at Camp Verde, Flagstaff, Gilbert, Kingman, Litchfield Park, Mayer, Phoenix, Prescott and Prescott Valley.
ISC VI 23 03 14 04.6–.65 36.99N–.02 112.25W–.03 10 116 0-69
IDC VI 23 03 14 01.0–.90 37.03N 112.36W 0 3.8,3.8b ¶16684543
NEIC VI 23 03 14 01.0 36.96N 112.09W 1 3.4L,3.8b
ISCJB VI 23 03 14 03.1–.22 36.96N–.02 112.22W–.03 10 3.6b,3.8b
ISC Event type fe.
NEIC Event type fe. Felt at Marble Canyon. After SLC.
ISCJB Event type fe.

(43) Southern California.

ECX I 01 00 34 10.3–.65 33.16N 115.66W 2 3.5L,3.4
¶601706838
ECX Error ellipse: s-maj=1.6km s-min=2.1km az=-1.0.
ISC I 10 11 26 04.3–.97 33.20N–.02 116.74W–.04 13–9 28 0-5
ISCJB I 10 11 26 04.0–.47 33.22N–.02 116.75W–.04 12–4 ¶16160568
NEIC I 10 11 26 04.7 33.23N 116.77W 11 3.1L
ECX I 10 11 26 05.1–.55 33.22N 116.75W 7 3.2L,3.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=9.4.
NEIC Event type fe. Felt [II] at Escondido, Poway, Ramona, San Diego, Santa Ysabel, Santee, Valley Center and Warner Springs. Felt in much of San Diego County and in parts of Orange and Riverside Counties. After PAS.
ECX Error ellipse: s-maj=0.9km s-min=1.6km az=-1.0.
ISC II 12 17 30 43.0–.88 33.68N–.02 116.83W–.02 17–7 112 0-12
ISCJB II 12 17 30 43.2–.28 33.67N–.02 116.84W–.02 28–3 ¶601793046
NEIC II 12 17 30 43.5 33.70N 116.83W 18 3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=22.8.
NEIC Event type fe. Felt [III] at Bonsall, Hemet, Homeland, Idyllwild, Moreno Valley, San Jacinto and Winchester; [II] in the Carlsbad-Palm Desert-Riverside area. Felt as far as Apple Valley, Los Angeles and San Diego. After PAS.
ISC III 03 20 05 14.9–.85 33.02N–.02 116.48W–.02 15–6 49 0-3
ISCJB III 03 20 05 15.1–.32 33.01N–.02 116.46W–.02 9–3 ¶601710638
ECX III 03 20 05 16.6–.64 33.00N 116.48W 5 2.9L,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=0.1.
ECX Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
ISC III 22 06 26 10.7–.97 33.98N–.02 118.81W–.02 10–7 60 0-4
NEIC III 22 06 26 11.0 33.99N 118.81W 2 3.3L ¶16951381
ISCJB III 22 06 26 10.3–.36 33.98N–.02 118.81W–.02 8–2 3.3L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Malubu, Manhattan Beach, Pacific Palisades and Sherman Oaks and [II] in the Camarillo-Moorpark-Los Angeles area. Felt in the Whittier-Ventura area and as far as Goleta and Mission Viejo. After PAS.
ISCJB Event type fe.
ISC III 28 04 56 12.2–.90 33.18N–.02 115.69W–.02 10–7 93 0-7
ISCJB III 28 04 56 11.4–.33 33.17N–.01 115.67W–.02 11–3 ¶16401320
ECX III 28 04 56 12.3–.64 33.18N 115.67W 3 3.5L,3.3
NEIC III 28 04 56 12.0 33.19N 115.65W 4 3.4L,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.4km az=24.8.
ECX Error ellipse: s-maj=1.4km s-min=2.0km az=-1.0.
NEIC Event type fe. Felt at Indio. After PAS.
ISC III 29 10 43 23.7–1.0 33.18N–.02 116.74W–.02 9–8 103 0-8
ISCJB III 29 10 43 23.9–.34 33.20N–.01 116.75W–.02 13–2 ¶16553294
ECX III 29 10 43 24.9–.64 33.22N 116.76W 9 3.8L,3.6
NEIC III 29 10 43 24.7 33.23N 116.76W 11 3.7L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.1km az=137.8.
ECX Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type fe. Felt [IV] at Laguna Beach, [III] at Whittier and [II] in much of Orange, San Diego and western Riverside Counties. Also felt in parts of Los Angeles County. After PAS.
ISC IV 02 02 32 51.9–.95 33.21N–.02 115.63W–.03 9–10 34 0-4
NEIC IV 02 02 32 51.9 33.20N 115.61W 4 2.5L ¶17236551
ISC Event type fe.
NEIC Event type fe. Felt at Calipatria. After PAS.
ISC IV 14 05 48 47.8–.93 33.19N–.02 115.59W–.03 14–7 43 0-3
IASPE IV 14 05 48 48.0–1.0 33.19N–.03 115.59W–.03 14–8 ¶601711135
ISCJB IV 14 05 48 48.4–.43 33.15N–.02 115.58W–.03 11–4
ECX IV 14 05 48 49.5–.63 33.18N 115.60W 5 3.0L,2.9
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=133.2. GT5 selection from ISC bulletin. GT5 identified by Bond˙¡r and McLaughlin (2009) selection criteria. Bond˙¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=31.2.
ECX Error ellipse: s-maj=1.7km s-min=1.9km az=-1.0.
ISC IV 15 11 47 24.9–.85 33.46N–.02 116.42W–.02 12–6 74 0-3
ISCJB IV 15 11 47 24.8–.35 33.45N–.01 116.44W–.02 4–3 ¶16587525
NEIC IV 15 11 47 26.1 33.46N 116.45W 5 3.2L
ECX IV 15 11 47 26.4–.49 33.45N 116.45W 4–2 3.2L,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.6km s-min=2.3km az=161.4.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.5km s-min=1.7km az=-1.0.
ISC IV 15 11 48 54.8–.89 33.47N–.02 116.46W–.02 13–8 71 0-3
ISCJB IV 15 11 48 55.4–.36 33.44N–.01 116.44W–.02 5–3 ¶16587526
ECX IV 15 11 48 56.5–.60 33.46N 116.45W 6 2.9L,2.7
NEIC IV 15 11 48 56.4 33.46N 116.45W 6 3.0L,2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.4km az=167.0.
ECX Error ellipse: s-maj=1.5km s-min=2.1km az=-1.0.
NEIC Event type fe. Felt [II] at La Quinta. Also felt at Cathedral City, Indian Wells, Loma Linda, Mountain Center, Palm Desert, San Clemente and San Diego. After PAS.
ISC IV 18 00 26 00.0–.96 33.04N–.03 115.57W–.03 15–9 30 0-2
ISCJB IV 18 00 26 00.8–.51 33.02N–.04 115.57W–.03 15–5 ¶601711164
ECX IV 18 00 26 01.6–.57 33.04N 115.58W 9 2.5L,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=159.3.
ECX Error ellipse: s-maj=1.9km s-min=2.1km az=-1.0.
ISC IV 23 20 49 28.7–.87 33.02N–.02 116.26W–.02 15–7 113 0-11
ISCJB IV 23 20 49 28.4–.34 33.03N–.02 116.27W–.02 3–3 ¶16631202
NEIC IV 23 20 49 29.8 33.02N 116.32W 4 3.6L
ECX IV 23 20 49 30.0–.50 33.02N 116.31W 4 3.6L,3.4
MEX IV 23 20 49 36.6–.78 32.36N 116.20W 16–347 3.8,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.6km az=27.0.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.3km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC IV 30 04 17 14.8–1.1 33.25N–.02 116.09W–.02 4–11 52 0-5
ISCJB IV 30 04 17 15.1–.41 33.22N–.02 116.03W–.02 1–4 ¶16708375
NEIC IV 30 04 17 16.5 33.23N 116.05W 9 3.0L
ECX IV 30 04 17 16.8–.50 33.22N 116.04W 4 2.9L,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=3.0km az=158.8.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.7km s-min=1.7km az=-1.0.
ISC V 03 08 27 31.5–.89 34.06N–.02 117.85W–.02 13–7 58 0-3
ISCJB V 03 08 27 31.4–.41 34.04N–.02 117.87W–.02 7–3 ¶16503259
NEIC V 03 08 27 32.5 34.07N 117.87W 12 3.0L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=18.2.
NEIC Event type fe. Felt [II] in the Chino-Monrovia-Rancho Cucamonga area. Felt in the Los Angeles area and as far as Lancaster and Palm Springs. After PAS.
ISC V 21 01 09 21.5–1.0 33.52N–.03 119.10W–.03 16–8 78 0-14
ISCJB V 21 01 09 21.7–.47 33.47N–.03 119.13W–.03 27–4 ¶16531787
NEIC V 21 01 09 22.1 33.50N 119.12W 15 3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=30.9.
NEIC Event type fe. Felt [II] at Los Angeles. Also felt at Bell, Burbank, El Segundo, North Hollywood, Oxnard, Redondo Beach, Santa Monica, Simi Valley and Westminster. After PAS.
MEX V 22 04 13 07.3–.50 33.27N 116.62W 14–999 3.6
¶602597822
MEX Error ellipse: s-maj=999.9km s-min=288.0km az=-1.0.
ISC V 27 23 17 24.5–.88 34.22N–.02 117.03W–.02 8–6 125 0-36
NEIC V 27 23 17 24.3 34.23N 117.05W 2 3.8L ¶16631873
IDC V 27 23 17 30.1–3.5 34.37N 116.75W 20–18 3.6,3.4
ISC Event type fe.
NEIC Event type fe. Felt [III] at Running Springs and [II] at Angelus Oaks, Big Bear City, Big Bear Lake, Cedar Glen, Highland, Lake Arrowhead, Redlands, Riverside and San Bernardino. Also felt at Camarillo, Colton, Crestline, Irvine, Joshua Tree, Loma Linda, Mentone, Palm Springs, Temecula and Yucaipa. After PAS.
IDC Error ellipse: s-maj=40.0km s-min=14.9km az=46.0.
ISC V 28 00 21 25.9–.96 34.21N–.02 117.05W–.02 7–9 47 0-2
ISCJB V 28 00 21 25.0–.37 34.22N–.02 117.06W–.02 3–4 ¶17451589
NEIC V 28 00 21 26.0 34.23N 117.05W 2 2.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.9km az=157.9.
NEIC Event type fe. Felt at Chatsworth, Highland, Redlands and Running Springs. After PAS.
ISC VI 23 19 11 20.5–.91 33.00N–.02 116.33W–.03 11–8 29 0-2
MEX VI 23 19 11 23.2–.35 32.93N 116.92W 3–3 3.6 ¶601218545
ISC Event type ke.
MEX Error ellipse: s-maj=6.7km s-min=15.8km az=-1.0.
ISC VI 26 08 56 30.0–.90 33.13N–.02 115.69W–.02 14–9 60 0-8
ISCJB VI 26 08 56 30.0–.54 33.12N–.02 115.68W–.02 8–4 ¶16912429
NEIC VI 26 08 56 30.2 33.17N 115.65W 1 3.1L
MEX VI 26 08 56 36.5–.48 32.80N 115.75W 16–999 4.0
ECX VI 26 08 56 41.8–.57 32.25N 115.54W 6 2.6L,2.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=3.2km az=151.7.
NEIC Event type se. After PAS.
MEX Error ellipse: s-maj=42.7km s-min=5.4km az=-1.0.
ECX Error ellipse: s-maj=2.3km s-min=3.0km az=-1.0.
ISC VI 28 14 45 56.8–.94 33.01N–.02 115.58W–.02 18–3 52 0-3
ISCJB VI 28 14 45 57.0–.42 33.02N–.02 115.58W–.03 10–3 ¶600045351
NEIC VI 28 14 45 57.9 33.00N 115.56W 12 2.6L
ECX VI 28 14 45 58.5–.55 33.02N 115.62W 12 2.7L,2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=39.7.
NEIC Event type fe. Felt [II] at Brawley. After PAS.
ECX Error ellipse: s-maj=1.5km s-min=2.0km az=-1.0.

(45) California-Baja California border region.

ISC I 01 20 48 43.7–.86 32.99N–.02 116.35W–.02 12–7 46 0-2
ISCJB I 01 20 48 43.6–.35 32.98N–.02 116.35W–.02 11–3 ¶601706843
ECX I 01 20 48 44.5–.49 32.99N 116.35W 8 2.7L,2.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=155.9.
ECX Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0.
ISC I 02 03 22 25.4–1.1 32.22N–.03 115.24W–.03 19–3 40 0-3
ISCJB I 02 03 22 26.0–.51 32.17N–.03 115.22W–.04 26–5 **¶601706853**
ECX I 02 03 22 27.3–.63 32.18N 115.28W 6 2.6L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=150.6.
ECX Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ECX I 10 17 48 52.4–.51 32.26N 115.35W 6 3.2L,3.0
NEIC I 10 17 48 52.4 32.26N 115.35W 6 3.0L,2.8L **¶16158958**
ECX Error ellipse: s-maj=1.4km s-min=1.9km az=-1.0.
NEIC Event type se. After ECX.
ECX I 18 20 07 49.4–.60 32.18N 115.24W 7 3.1L,2.9
NEIC I 18 20 07 49.4 32.18N 115.24W 7 3.1L,3.0L **¶601707000**
ECX Error ellipse: s-maj=1.2km s-min=2.4km az=-1.0.
NEIC Event type fe. Felt at Yuma, Arizona. After ECX.
ISC I 19 02 13 02.4–1.1 32.15N–.02 115.17W–.02 12–11 42 0-5
ISCJB I 19 02 13 01.9–.59 32.17N–.02 115.10W–.03 9–5 **¶601707002**
NEIC I 19 02 13 03.7 32.12N 115.17W 15 2.9L
ECX I 19 02 13 04.6–.48 32.14N 115.19W 8 3.3L,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.7km az=28.2.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=0.7km s-min=1.3km az=-1.0.
ISC I 21 09 04 01.1–.00 32.21N–.03 115.29W–.04 14–8 21 0-3
NEIC I 21 09 04 02.3 32.20N 115.28W 5 3.0L,2.8L **¶601707029**
ECX I 21 09 04 02.3–.52 32.20N 115.28W 5 3.0L,2.8
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.2km s-min=2.4km az=-1.0.
ISC I 23 06 47 24.4–.88 32.25N–.02 115.32W–.02 14–6 94 0-38
IDC I 23 06 47 22.4–2.8 32.02N 115.51W 0 3.7,3.7L **¶15959239**
ISCJB I 23 06 47 23.6–.59 32.25N–.02 115.25W–.02 12–4 3.1b,3.1s
ECX I 23 06 47 25.7–.83 32.26N 115.34W 6 4.2L,4.0
NEIC I 23 06 47 26.5 32.36N 115.21W 18 4.2L,4.1
MEX I 23 06 47 26.5–.62 32.36N 115.21W 18–6 4.1,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=56.4km s-min=11.1km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=27.6.
ECX Error ellipse: s-maj=1.4km s-min=2.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_s123.23000°,δ75.52000°,λ-26.57000°.
NEIC Event type fe. Felt [II] at Mexicali. Also felt at San Felipe and Tijuana. Felt [II] at Yuma, Arizona. Also felt at Wellton. Felt at San Luis Rio Colorado, Sonora and at Calexico, Carlsbad, Chula Vista, El Cajon, El Centro, Imperial, Lakeside, La Mesa, Poway, Ramona, San Diego and Santee, California. After ECX.
MEX Error ellipse: s-maj=3.5km s-min=4.6km az=-1.0.
ISC I 23 14 37 37.7–.89 32.33N–.03 115.43W–.04 16–7 28 0-2
ISCJB I 23 14 37 37.5–.56 32.33N–.04 115.41W–.04 11–6 **¶16328457**
ECX I 23 14 37 39.2–.39 32.31N 115.39W 6 2.6L,2.4
NEIC I 23 14 37 39.2 32.31N 115.39W 6 2.6L,2.5L
MEX I 23 14 37 40.0–.37 32.40N 115.31W 15–58 3.4,2.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.9km az=37.3.
ECX Error ellipse: s-maj=0.9km s-min=1.4km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=44.8km s-min=57.7km az=-1.0.
ISC I 23 18 54 59.3–1.0 32.24N–.05 115.32W–.05 14–9 16 0-1
ISCJB I 23 18 54 59.6–.80 32.26N–.05 115.30W–.06 13–8 **¶601136851**
MEX I 23 18 55 01.2–.35 32.35N 115.15W 16–8 3.4
ECX I 23 18 55 01.0–.51 32.28N 115.32W 6 2.5L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.2km az=144.5.
MEX Error ellipse: s-maj=6.5km s-min=6.5km az=-1.0.
ECX Error ellipse: s-maj=2.3km s-min=2.8km az=-1.0.
ISC I 24 02 05 24.8–.96 32.25N–.03 115.32W–.04 14–8 23 0-1
ISCJB I 24 02 05 25.1–.76 32.26N–.03 115.31W–.05 12–7 **¶601136857**
ECX I 24 02 05 26.5–.49 32.25N 115.32W 6 2.7L,2.5
MEX I 24 02 05 26.0–.37 32.41N 115.11W 24–3 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.2km az=149.1.
ECX Error ellipse: s-maj=1.4km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=5.2km s-min=6.4km az=-1.0.
ISC I 24 11 43 13.4–1.0 32.07N–.03 115.12W–.05 12 21 0-2
ISCJB I 24 11 43 14.3–.61 32.08N–.03 115.10W–.06 12 **¶601136863**
ECX I 24 11 43 15.4–.42 32.08N 115.06W 9 3.0L,2.8
MEX I 24 11 43 16.4–.67 32.12N 114.99W 15 4.1,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.0km az=171.5.
ECX Error ellipse: s-maj=0.9km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=3.5km s-min=15.9km az=-1.0.
MEX I 24 15 36 22.4–.35 32.46N 115.16W 24–3 3.8
¶601136864
MEX Error ellipse: s-maj=6.5km s-min=8.5km az=-1.0.
ISC I 25 00 55 35.4–.93 32.86N–.02 115.52W–.02 18–5 74 0-4
ISCJB I 25 00 55 35.5–.28 32.85N–.02 115.50W–.02 25–3 **¶16328501**
NEIC I 25 00 55 36.2 32.87N 115.51W 15 3.1L,3.0L
ECX I 25 00 55 36.7–.50 32.88N 115.53W 10 3.1L,3.0
MEX I 25 00 55 36.8–.46 32.92N 115.36W 17–41 3.9,3.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=162.6.
NEIC Event type fe. Felt at El Centro and Imperial. After PAS.
ECX Error ellipse: s-maj=1.2km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=20.4km s-min=34.8km az=-1.0.
ISC I 25 08 31 07.3–1.0 32.31N–.04 115.39W–.04 16–9 17 0-1
ISCJB I 25 08 31 07.8–.70 32.32N–.05 115.39W–.05 14–7 **¶601136870**
MEX I 25 08 31 08.6–.41 32.46N 115.23W 18–5 3.9
ECX I 25 08 31 08.9–.69 32.32N 115.39W 6 2.3L,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.3km az=135.1.
MEX Error ellipse: s-maj=8.5km s-min=6.4km az=-1.0.
ECX Error ellipse: s-maj=1.7km s-min=2.1km az=-1.0.
ISC I 26 07 33 29.4–1.2 32.26N–.04 116.57W–.07 23–9 16 0-2
MEX I 26 07 33 31.5–.34 32.26N 116.81W 11–11 2.6 **¶601136880**
ECX I 26 07 33 31.0–.50 32.24N 116.51W 4 2.1L,1.9
ISC Event type ke.
MEX Error ellipse: s-maj=3.7km s-min=9.2km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.
ISC I 26 17 13 08.3–.87 32.17N–.03 115.24W–.03 12 40 0-4
ISCJB I 26 17 13 08.5–.44 32.20N–.03 115.23W–.04 12 **¶16176393**
NEIC I 26 17 13 09.2 32.14N 115.23W 15 3.3L
MEX I 26 17 13 10.6–.67 32.29N 115.12W 31–9 3.8
ECX I 26 17 13 10.3–.53 32.18N 115.25W 6 3.5L,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.7km az=179.1.
NEIC Event type se. After PAS.
MEX Error ellipse: s-maj=5.9km s-min=7.6km az=-1.0.
ECX Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
ISC I 28 07 26 54.9–.85 32.61N–.02 115.72W–.02 16–6 78 0-3
IASPE I 28 07 26 54.9–.86 32.62N–.02 115.73W–.02 16–6 **¶16012675**
ISCJB I 28 07 26 55.4–.34 32.63N–.02 115.73W–.02 15–2
NEIC I 28 07 26 56.7 32.61N 115.75W 4 3.1L,3.0L
ECX I 28 07 26 56.7–.62 32.61N 115.75W 4 3.1L,3.0
MEX I 28 07 26 57.0–.98 32.67N 115.67W 16–43 4.0,3.0
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=3.5km s-min=2.8km az=161.9. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.6km az=152.3.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=70.6km s-min=10.8km az=-1.0.
ISC I 28 08 53 34.6–1.1 32.53N–.02 115.63W–.02 18–3 70 0-3
ISCJB I 28 08 53 34.3–.60 32.52N–.02 115.62W–.02 10–5 **¶16056921**
NEIC I 28 08 53 36.3 32.50N 115.64W 5 3.0,2.7L
ECX I 28 08 53 36.3–.63 32.50N 115.64W 5 3.0L,2.8
MEX I 28 08 53 36.1–.74 32.60N 115.52W 16–14 3.7,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.9km az=150.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=19.2km s-min=5.9km az=-1.0.
ISC I 30 17 25 26.9–.91 32.26N–.03 115.32W–.04 14 25 0-2
ISCJB I 30 17 25 27.6–.54 32.28N–.03 115.33W–.04 14 **¶16328572**
MEX I 30 17 25 29.9–.64 32.38N 115.22W 20–8 4.0
NEIC I 30 17 25 29.3 32.28N 115.32W 6 3.2L,2.9L
ECX I 30 17 25 29.3–.50 32.28N 115.32W 6 3.2L,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.0km az=154.2.
MEX Error ellipse: s-maj=11.8km s-min=9.6km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=3.3km az=-1.0.
ISC I 31 00 49 10.7–1.0 32.15N–.02 115.17W–.03 23–9 54 0-4
NEIC I 31 00 49 11.7 32.13N 115.20W 4 3.5,3.3L **¶16328593**
ECX I 31 00 49 11.7–.49 32.13N 115.20W 4 3.3L,3.1
MEX I 31 00 49 12.9–.56 32.16N 115.14W 10 3.5,3.1
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=1.8km s-min=6.1km az=-1.0.
ISC I 31 03 19 56.8–1.1 32.14N–.02 115.19W–.03 19–3 39 0-6
ISCJB I 31 03 19 57.2–.77 32.16N–.03 115.20W–.04 15–6 **¶16026072**
NEIC I 31 03 19 58.3 32.14N 115.16W 6 3.3L,2.9L
ECX I 31 03 19 58.3–.47 32.14N 115.18W 6 3.3L,3.1
MEX I 31 03 19 59.7–.81 32.20N 115.11W 16–12 4.1,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.1km az=154.4.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=3.3km az=-1.0.
MEX Error ellipse: s-maj=3.6km s-min=9.6km az=-1.0.
ECX I 31 04 54 44.8–.56 32.28N 115.32W 5 2.8L,2.6
NEIC I 31 04 54 44.8 32.28N 115.32W 5 2.8L,2.4L **¶601709235**
ECX Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0.
NEIC Event type se. After ECX.
ISC I 31 17 46 28.6–.80 32.64N–.02 115.84W–.02 16–5 73 0-4
IASPE I 31 17 46 28.6–.91 32.67N–.03 115.85W–.02 17–6 **¶16328588**
ISCJB I 31 17 46 28.8–.35 32.66N–.02 115.83W–.02 14–2
NEIC I 31 17 46 29.7 32.67N 115.85W 8 3.7,3.5L
ECX I 31 17 46 30.0–.61 32.67N 115.86W 4 3.6L,3.4
MEX I 31 17 46 30.5–.63 32.67N 115.78W 16–17 3.7,3.4
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=170.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.7km az=6.5.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.5km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=13.0km s-min=4.0km az=-1.0.
ISC II 01 11 21 28.5–.85 32.87N–.02 116.00W–.02 16–6 43 0-2
ISCJB II 01 11 21 28.7–.35 32.85N–.02 115.99W–.02 12–3 **¶601709242**
ECX II 01 11 21 29.5–.68 32.85N 116.00W 4 2.5L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=165.6.
ECX Error ellipse: s-maj=1.8km s-min=1.3km az=-1.0.
ISC II 02 01 26 11.7–1.3 32.15N–.05 115.21W–.05 20–4 25 0-1
ISCJB II 02 01 26 12.0–.64 32.18N–.04 115.21W–.06 25–7 **¶601136914**
ECX II 02 01 26 12.9–.54 32.15N 115.22W 7 3.2L,3.0
MEX II 02 01 26 13.8–.45 32.20N 115.16W 10 3.6,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.4km az=178.7.
ECX Error ellipse: s-maj=1.0km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=1.3km s-min=3.3km az=-1.0.
ISC II 02 08 53 31.4–1.3 32.14N–.03 115.20W–.03 1–12 52 0-4
ISCJB II 02 08 53 32.7–.53 32.15N–.02 115.22W–.03 6–4 **¶601136916**
MEX II 02 08 53 34.8–.82 32.26N 115.11W 33–12 3.9
ECX II 02 08 53 34.4–.55 32.17N 115.25W 7 3.3L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=5.5.
MEX Error ellipse: s-maj=8.5km s-min=10.2km az=-1.0.
ECX Error ellipse: s-maj=0.9km s-min=1.5km az=-1.0.
ISC II 03 01 33 13.4–.90 32.25N–.03 115.36W–.02 15–6 63 0-5
ISCJB II 03 01 33 13.5–.64 32.26N–.03 115.34W–.03 8–5 **¶16328644**
NEIC II 03 01 33 15.0 32.27N 115.32W 4 3.2L,3.2L
ECX II 03 01 33 15.0–.61 32.27N 115.33W 4 3.2L,3.2L
MEX II 03 01 33 15.9–.43 32.30N 115.27W 9 3.7,3.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.8km az=179.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.9km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=3.0km s-min=3.3km az=-1.0.
ISC II 03 04 51 35.4–.92 32.15N–.02 115.20W–.02 17–7 65 0-5
ISCJB II 03 04 51 36.1–.37 32.17N–.02 115.18W–.03 20–5 **¶16026088**
NEIC II 03 04 51 37.3 32.16N 115.20W 8 3.2L,2.9L
ECX II 03 04 51 37.3–.51 32.16N 115.21W 8 3.2L,3.1
MEX II 03 04 51 38.2–.42 32.23N 115.10W 16–6 3.7,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=145.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=1.8km s-min=6.2km az=-1.0.
ISC II 04 14 31 33.0–.97 32.15N–.03 115.23W–.03 17–8 42 0-2
ISCJB II 04 14 31 33.3–.46 32.17N–.03 115.20W–.04 21–6 **¶601136933**
ECX II 04 14 31 34.6–.59 32.15N 115.26W 7 3.4L,3.2
MEX II 04 14 31 35.2–.63 32.22N 115.10W 14–38 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=151.3.
ECX Error ellipse: s-maj=1.2km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=31.4km s-min=48.1km az=-1.0.
ISC II 06 19 21 09.7–.98 32.53N–.05 115.69W–.03 17–7 21 0-1
ISCJB II 06 19 21 10.1–.52 32.48N–.09 115.69W–.06 10–12 **¶601136946**
ECX II 06 19 21 11.9–.55 32.59N 115.71W 3 2.3L,2.1
MEX II 06 19 21 11.8–.53 32.57N 115.59W 16–999 3.7,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=4.5km az=27.0.
ECX Error ellipse: s-maj=2.1km s-min=1.6km az=-1.0.
MEX Error ellipse: s-maj=12.2km s-min=7.9km az=-1.0.
ISC II 06 23 56 00.1–.81 32.62N–.02 115.94W–.02 14–5 113 0-10
ISCJB II 06 23 55 59.9–.34 32.63N–.02 115.89W–.02 14–2 **¶16007791**
IASPE II 06 23 56 00.1–.92 32.64N–.03 115.94W–.02 15–6
NEIC II 06 23 56 00.7 32.61N 115.94W 8 4.1L,4.0
ECX II 06 23 56 01.6–.53 32.63N 115.94W 4 4.1L,3.9
MEX II 06 23 56 01.8–.84 32.73N 115.91W 18–19 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=7.5.
IASPE Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=170.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
NEIC Event type fe. Felt at Alpine, Cathedral City, Chula Vista, El Centro, Laguna Niguel, Menifee, Palm Springs, Ramona and San Diego. After PAS.
ECX Error ellipse: s-maj=1.3km s-min=1.1km az=-1.0.

MEX Error ellipse: s-maj=22.5km s-min=4.6km az=-1.0.
ISC II 07 21 51 06.4–2.1 32.3N–.10 115.32W–.07 16–10 16 0-1
ECX II 07 21 51 08.8–.41 32.31N 115.31W 6 2.3L **¶601136954**
MEX II 07 21 51 09.4–.88 32.43N 115.28W 12–194 3.7
ISC Event type ke.
ECX Error ellipse: s-maj=2.7km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=161.8km s-min=213.2km az=-1.0.
ISC II 08 02 03 41.5–1.1 32.20N–.04 115.24W–.02 14–8 57 0-4
ISCJB II 08 02 03 41.3–.82 32.17N–.04 115.23W–.03 11–4 **¶16328780**
NEIC II 08 02 03 43.3 32.20N 115.27W 6 3.3L,2.7L
ECX II 08 02 03 43.3–.50 32.20N 115.27W 6 3.3L,3.1
MEX II 08 02 03 44.3–.33 32.29N 115.17W 17–137 3.9,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.9km az=174.4.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.9km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=49.6km s-min=8.8km az=-1.0.
ISC II 08 03 44 44.5–.78 32.65N–.02 115.91W–.02 17–4 66 0-3
IASPE II 08 03 44 44.2–.88 32.65N–.03 115.93W–.02 15–5 **¶16026106**
ISCJB II 08 03 44 44.7–.37 32.64N–.02 115.92W–.02 12–2
MEX II 08 03 44 44.6–1.2 32.90N 115.91W 16–999 3.6
NEIC II 08 03 44 45.7 32.63N 115.93W 3 3.0L,2.9L
ECX II 08 03 44 45.7–.61 32.63N 115.93W 3 3.0L,2.8
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=170.2. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.9km az=178.5.
MEX Error ellipse: s-maj=27.7km s-min=9.3km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.9km s-min=1.0km az=-1.0.
ISC II 08 21 38 03.9–1.4 32.16N–.04 115.23W–.08 14–12 12 0-1
ISCJB II 08 21 38 04.4–1.3 32.18N–.05 115.2W–.10 17–15 **¶601136960**
ECX II 08 21 38 05.5–.46 32.17N 115.23W 7 2.5L,2.4
MEX II 08 21 38 06.9–.58 32.26N 115.24W 16–24 3.6,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=7.8km az=163.1.
ECX Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=210.7km s-min=999.9km az=-1.0.
ISC II 09 11 00 17.3–1.1 32.19N–.04 115.27W–.04 18–7 29 0-1
ISCJB II 09 11 00 17.7–.70 32.19N–.04 115.26W–.05 14–6 **¶601136967**
ECX II 09 11 00 18.9–.46 32.19N 115.27W 7 2.8L,2.6
MEX II 09 11 00 19.8–.31 32.25N 115.19W 13–63 3.9,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.6km az=156.0.
ECX Error ellipse: s-maj=1.2km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=38.7km s-min=63.1km az=-1.0.
ISC II 09 11 10 44.6–1.1 32.15N–.04 115.29W–.04 13–10 26 0-1
ISCJB II 09 11 10 45.3–.73 32.19N–.04 115.28W–.06 13–7 **¶601136968**
ECX II 09 11 10 46.3–.50 32.18N 115.28W 6 2.5L,2.3
MEX II 09 11 10 47.5–.80 32.26N 115.18W 17–219 3.6,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.8km az=158.6.
ECX Error ellipse: s-maj=1.3km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=148.6km s-min=235.6km az=-1.0.
MEX II 12 20 33 01.5–.87 32.49N 115.11W 17–3 3.5
¶601136996
MEX Error ellipse: s-maj=9.8km s-min=14.3km az=-1.0.
MEX II 12 20 41 13.8–.33 32.45N 115.13W 17–3 3.5
¶601136997
MEX Error ellipse: s-maj=4.3km s-min=6.7km az=-1.0.
ISC II 13 09 23 58.4–.87 32.98N–.02 116.33W–.02 12–7 41 0-2
ISCJB II 13 09 23 58.4–.47 32.95N–.02 116.30W–.02 11–4 **¶601137007**
MEX II 13 09 24 01.5–.29 32.87N 116.96W 10 3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=156.3.
MEX Error ellipse: s-maj=15.8km s-min=31.1km az=-1.0.
ISC II 13 21 37 58.8–1.2 32.09N–.04 115.02W–.05 24–11 18 0-2
ISCJB II 13 21 37 58.9–.78 32.10N–.04 115.02W–.06 22–7 **¶16398141**
NEIC II 13 21 37 59.6 32.03N 115.06W 10 2.8L
MEX II 13 21 38 01.3–.56 32.12N 114.97W 20–999 4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=176.7.
NEIC Event type se. After PAS.
MEX Error ellipse: s-maj=558.8km s-min=999.9km az=-1.0.
ISC II 13 23 02 37.6–1.1 32.19N–.03 115.31W–.02 10–8 64 0-9
ISCJB II 13 23 02 37.1–.55 32.23N–.03 115.27W–.02 6–3 **¶16339729**
NEIC II 13 23 02 39.2 32.23N 115.29W 6 3.4L,3.2L
ECX II 13 23 02 39.2–.60 32.23N 115.29W 6 3.4L,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=172.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
ISC II 13 23 11 07.2–.89 32.22N–.03 115.31W–.02 15–7 41 0-2
ISCJB II 13 23 11 07.5–.61 32.25N–.04 115.32W–.03 10–5 **¶16339730**
NEIC II 13 23 11 08.8 32.23N 115.29W 7 2.8L,2.5L
ECX II 13 23 11 08.8–.59 32.23N 115.29W 7 2.8L,2.6
MEX II 13 23 11 09.2–.56 32.28N 115.19W 13–272 3.7,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=3.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=189.0km s-min=277.2km az=-1.0.
ISC II 13 23 25 09.0–.89 32.19N–.02 115.31W–.02 15–6 107 0-14
ISCJB II 13 23 25 09.3–.37 32.22N–.02 115.27W–.02 25–3 **¶16022618**
ECX II 13 23 25 10.8–.49 32.23N 115.30W 6 4.1L
NEIC II 13 23 25 10.8 32.23N 115.30W 6 4.1L,4.1L
MEX II 13 23 25 11.5–.50 32.28N 115.21W 15–9 4.0,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=12.1.
ECX Error ellipse: s-maj=1.4km s-min=1.4km az=-1.0.
NEIC Event type fe. Felt at Mexicali. Also felt at Calexico, El Cajon, El Centro, La Mesa, San Diego and Santa Ana, California. After ECX.
MEX Error ellipse: s-maj=7.5km s-min=8.7km az=-1.0.
ISC II 14 00 16 59.9–.94 32.20N–.02 115.33W–.02 11–7 96 0-8
ISCJB II 14 00 16 59.1–.46 32.21N–.02 115.28W–.02 5–3 **¶16398145**
NEIC II 14 00 17 01.3 32.21N 115.30W 6 3.5L,3.4L
ECX II 14 00 17 01.3–.60 32.21N 115.30W 6 3.5L,3.4
MEX II 14 00 17 02.0–.48 32.28N 115.18W 16–7 3.9,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=10.2.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=2.1km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=6.3km s-min=8.2km az=-1.0.
ISC II 14 00 24 16.9–1.0 32.23N–.03 115.30W–.03 17–8 31 0-2
ISCJB II 14 00 24 17.0–.57 32.24N–.03 115.25W–.03 14–5 **¶16339737**
NEIC II 14 00 24 18.5 32.23N 115.30W 8 2.8L,2.7L
ECX II 14 00 24 18.5–.53 32.23N 115.30W 8 2.8L,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=43.3.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 14 00 35 43.4–1.0 32.21N–.04 115.30W–.05 15–10 20 0-1
ISCJB II 14 00 35 43.7–1.0 32.24N–.05 115.27W–.07 17–14 **¶601137010**
ECX II 14 00 35 44.9–.44 32.24N 115.27W 5 2.4L,2.2
MEX II 14 00 35 45.7–.64 32.29N 115.20W 15–97 3.6,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.1km az=155.0.
ECX Error ellipse: s-maj=1.3km s-min=2.7km az=-1.0.
MEX Error ellipse: s-maj=61.5km s-min=92.8km az=-1.0.

ISC II 14 02 20 35.8–.86 32.22N–.02 115.27W–.02 18–6 68 0-5
ISCJB II 14 02 20 35.8–.59 32.23N–.02 115.25W–.03 12–4 **¶16314212**
NEIC II 14 02 20 37.4 32.25N 115.30W 4 3.1L,2.7L
ECX II 14 02 20 37.4–.59 32.25N 115.30W 4 3.1L,2.9
MEX II 14 02 20 38.2–.43 32.28N 115.21W 12–16 3.8,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.7km az=154.8.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
MEX Error ellipse: s-maj=9.7km s-min=13.9km az=-1.0.
ISC II 14 03 21 58.1–.85 32.22N–.02 115.28W–.02 17–6 71 0-5
ISCJB II 14 03 21 57.9–.58 32.22N–.03 115.24W–.03 13–4 **¶16314213**
NEIC II 14 03 21 59.6 32.23N 115.28W 4 3.3L,2.9L
ECX II 14 03 21 59.6–.53 32.23N 115.28W 4 3.3L,3.1
MEX II 14 03 22 00.4–.49 32.31N 115.16W 19–11 3.8,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=8.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.6km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=5.4km s-min=7.2km az=-1.0.
ISC II 14 03 29 55.8–.97 32.23N–.02 115.26W–.02 18–6 59 0-3
ISCJB II 14 03 29 56.8–.47 32.25N–.03 115.24W–.03 23–4 **¶16339738**
NEIC II 14 03 29 58.1 32.24N 115.30W 6 2.8L,2.4L
ECX II 14 03 29 58.1–.45 32.24N 115.30W 6 2.8L,2.6
MEX II 14 03 29 58.7–.41 32.29N 115.17W 18–19 3.7,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=178.3.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=4.5km s-min=6.2km az=-1.0.
MEX II 14 04 31 18.1–.44 32.29N 115.19W 13–103 3.6
¶601137012
MEX Error ellipse: s-maj=68.9km s-min=102.8km az=-1.0.
ISC II 14 05 32 47.1–1.1 32.23N–.04 115.28W–.03 18–6 45 0-5
ISCJB II 14 05 32 47.4–.59 32.23N–.04 115.24W–.03 25–4 **¶601710458**
ECX II 14 05 32 48.5–.62 32.22N 115.29W 4 3.4L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.1km az=180.0.
ECX Error ellipse: s-maj=1.8km s-min=2.2km az=-1.0.
ISC II 14 11 30 54.8–1.1 32.27N–.05 115.37W–.04 7–15 19 0-1
ISCJB II 14 11 30 55.1–.66 32.31N–.06 115.33W–.09 12–9 **¶601137016**
ECX II 14 11 30 56.5–.59 32.33N 115.31W 5 2.8L,2.6
MEX II 14 11 30 57.0–.76 32.38N 115.25W 11–95 3.7,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=7.6km az=148.4.
ECX Error ellipse: s-maj=2.1km s-min=3.0km az=-1.0.
MEX Error ellipse: s-maj=73.3km s-min=97.4km az=-1.0.
ISC II 15 10 20 14.1–1.0 32.19N–.04 115.25W–.06 17–10 20 0-1
ECX II 15 10 20 15.5–.63 32.19N 115.28W 4 2.7L,2.5 **¶601137020**
MEX II 15 10 20 16.0–.35 32.24N 115.16W 14–201 3.5,2.5
ISC Event type ke.
ECX Error ellipse: s-maj=1.2km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=131.3km s-min=223.5km az=-1.0.
MEX II 16 00 01 46.7–.82 32.34N 115.26W 15–308 3.5
¶601137024
MEX Error ellipse: s-maj=221.2km s-min=296.4km az=-1.0.
ISC II 16 02 31 39.7–1.1 32.20N–.03 115.27W–.06 18–4 18 0-1
ISCJB II 16 02 31 40.3–1.3 32.21N–.05 115.28W–.08 16–31 **¶601137026**
ECX II 16 02 31 41.8–.51 32.22N 115.31W 7 2.4L,2.2
MEX II 16 02 31 41.8–.60 32.23N 115.15W 16–142 3.5,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.8km az=153.8.
ECX Error ellipse: s-maj=1.2km s-min=2.8km az=-1.0.
MEX Error ellipse: s-maj=92.3km s-min=148.7km az=-1.0.
ISC II 16 03 11 20.2–1.0 32.12N–.04 115.24W–.07 13–11 17 0-1
ISCJB II 16 03 11 20.3–.87 32.16N–.04 115.17W–.08 19–10 **¶601137027**
ECX II 16 03 11 22.2–.50 32.15N 115.22W 8 2.7L,2.5
MEX II 16 03 11 22.3–.58 32.19N 115.12W 12–117 3.5,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.4km az=161.0.
ECX Error ellipse: s-maj=1.2km s-min=3.2km az=-1.0.
MEX Error ellipse: s-maj=71.7km s-min=124.6km az=-1.0.
ISC II 16 04 34 05.0–.86 32.28N–.02 115.35W–.02 17–6 69 0-4
ISCJB II 16 04 34 05.5–.54 32.31N–.02 115.34W–.03 13–4 **¶16339749**
NEIC II 16 04 34 07.1 32.29N 115.36W 7 2.9L,2.7L
ECX II 16 04 34 07.1–.48 32.29N 115.36W 7 2.9L,2.7
MEX II 16 04 34 07.4–.64 32.31N 115.26W 15–92 3.7,2.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.7km az=163.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=61.9km s-min=88.2km az=-1.0.
ISC II 16 09 14 56.5–.91 32.23N–.02 115.25W–.02 16–7 60 0-3
ISCJB II 16 09 14 57.0–.52 32.25N–.02 115.25W–.03 14–3 **¶16362982**
ECX II 16 09 14 58.5–.58 32.23N 115.29W 7 2.9L,2.7
NEIC II 16 09 14 59.4 32.30N 115.23W 11 3.7,2.7
MEX II 16 09 14 59.4–.56 32.30N 115.23W 11–42 3.7,2.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=33.0.
ECX Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=24.1km s-min=37.6km az=-1.0.
ISC II 16 10 55 45.7–.98 32.16N–.03 115.20W–.03 24–8 46 0-3
ISCJB II 16 10 55 45.9–.41 32.17N–.03 115.19W–.03 26–4 **¶601137030**
ECX II 16 10 55 47.2–.57 32.14N 115.25W 8 2.9L,2.7
MEX II 16 10 55 48.2–.54 32.24N 115.15W 16–102 3.7,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=142.8.
ECX Error ellipse: s-maj=1.2km s-min=1.8km az=-1.0.
MEX Error ellipse: s-maj=66.4km s-min=107.7km az=-1.0.
MEX II 16 20 21 07.0–.50 32.29N 115.24W 12–40 3.5
¶601137034
MEX Error ellipse: s-maj=22.5km s-min=33.4km az=-1.0.
MEX II 16 20 49 48.0–.36 32.29N 115.25W 16–40 3.5
¶601137035
MEX Error ellipse: s-maj=4.7km s-min=6.3km az=-1.0.
MEX II 17 02 32 28.6–.63 32.45N 115.20W 25–8 3.6
¶601137037
MEX Error ellipse: s-maj=7.8km s-min=9.5km az=-1.0.
ISC II 17 17 20 20.0–1.3 32.21N–.04 115.30W–.06 18–3 12 0-1
ISCJB II 17 17 20 20.1–2.3 32.23N–.10 115.3W–.10 18–37 **¶601137040**
ECX II 17 17 20 21.3–.26 32.22N 115.27W 7 2.2L,2.1
MEX II 17 17 20 22.0–.52 32.29N 115.16W 16–161 3.5,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.5km s-min=6.5km az=136.7.
ECX Error ellipse: s-maj=0.8km s-min=3.0km az=-1.0.
MEX Error ellipse: s-maj=111.6km s-min=167.3km az=-1.0.
ISC II 17 18 13 18.3–.85 32.25N–.03 115.30W–.02 16–6 54 0-4
ISCJB II 17 18 13 18.6–.50 32.27N–.03 115.27W–.03 15–4 **¶16884505**
ECX II 17 18 13 19.9–.60 32.27N 115.30W 7 3.4L,3.2
NEIC II 17 18 13 19.9 32.27N 115.30W 7 3.4L,3.3L
MEX II 17 18 13 20.4–.59 32.35N 115.15W 20–8 3.8,3.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.9km az=142.2.
ECX Error ellipse: s-maj=1.2km s-min=2.1km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=8.2km s-min=8.2km az=-1.0.
ISC II 18 17 35 20.5–1.1 32.04N–.02 115.04W–.02 18–8 70 0-5
ISCJB II 18 17 35 21.1–.45 32.06N–.02 115.03W–.03 26–3 **¶16358621**
NEIC II 18 17 35 22.1 32.01N 115.05W 9 4.1,3.7L
ECX II 18 17 35 22.1–.59 32.01N 115.05W 9 3.7L,3.5

MEX II 18 17 35 23.8–.44 32.10N 114.98W 17–124 4.1,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.9km az=170.4.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.2km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=66.6km s-min=136.6km az=-1.0.
ISC II 18 17 42 49.8–1.1 32.09N–.03 115.05W–.03 24–10 57 0-6
ISCJB II 18 17 42 49.8–.69 32.11N–.04 115.02W–.03 27–5 **¶16358622**
NEIC II 18 17 42 51.7 32.06N 115.14W 9 4.0,3.6L
ECX II 18 17 42 51.7–.68 32.06N 115.14W 9 3.5L,3.3
MEX II 18 17 42 51.9–.86 32.13N 115.00W 20–236 4.0,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=4.3.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.7km s-min=3.6km az=-1.0.
MEX Error ellipse: s-maj=131.7km s-min=276.1km az=-1.0.
ISC II 18 17 47 36.3–.72 32.05N–.02 115.10W–.02 7–4 4.9b,4.8s 632 0-146
BJI II 18 17 47 33.7 32.10N 115.10W 8 5.7b,5.2s **¶16032043**
ISCJB II 18 17 47 35.3–.15 32.07N–.02 115.08W–.01 10 4.8b,4.7s
NEIC II 18 17 47 36.7 32.06N 115.10W 8 5.2L,5.1
ECX II 18 17 47 36.6–.59 32.06N 115.09W 8 5.2L,5.0
GCMT II 18 17 47 36.7–.20 32.08N 115.06W 12 5.2W,5.0
IDC II 18 17 47 37.5–.66 32.26N 114.78W 0 4.7,4.6
MEX II 18 17 47 37.9–1.2 32.14N 115.01W 20–26 5.1,4.6
MOS II 18 17 47 38.0–1.8 32.33N 114.93W 17 5.2b,4.9s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=19.3.
NEIC Event type fe. Felt [II] at Ensenada, Mexicali, San Felipe and Tijuana. Also felt at Algodones and Rosarito. Felt at San Luis Rio Colorado, Sonora. Felt [III] at Somerton, Wellton and Yuma, Arizona. Also felt [III] at Calexico and Winterhaven and [II] in much of Imperial, Orange and San Diego Counties, California. Felt as far as Phoenix, Arizona and the Los Angeles area, California. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c83; s119,c188; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.46±.12 $M_{\theta\theta}$-5.73±.11; $M_{\phi\phi}$6.19±.11; $M_{r\theta}$-1.35±.32; $M_{\theta\phi}$-1.65±.12; $M_{\phi r}$-2.27±.31; Best double couple: NP1:ϕ_s37.00000°,δ90.00000°,λ-23.00000°. NP2:ϕ_s127.00000°,δ67.00000°,λ-180.00000°. Principal axes: T 7.0030,Plg16.0000°,Azm84.0000°; N -0.5740,Plg67.0000°,Azm216.0000°; P -6.4330,Plg16.0000°,Azm350.0000° $M_0$6.71800×10^{16}
IDC Error ellipse: s-maj=17.3km s-min=8.3km az=39.0.
MEX Error ellipse: s-maj=19.2km s-min=28.0km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.9km az=98.9.
ISC II 18 17 50 55.5–1.2 32.11N–.04 115.05W–.04 28–10 33 0-2
ISCJB II 18 17 50 55.5–.77 32.11N–.04 115.02W–.05 30–6 **¶16032237**
NEIC II 18 17 50 57.2 32.07N 115.15W 9 3.9L,3.9L
ECX II 18 17 50 57.2–.47 32.07N 115.15W 9 3.9L,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.8km az=173.8.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=2.6km az=-1.0.
ISC II 18 17 52 02.5–1.4 32.10N–.04 115.08W–.04 17–9 32 0-5
ISCJB II 18 17 52 03.1–.85 32.11N–.04 115.06W–.05 24–6 **¶601710496**
NEIC II 18 17 52 04.4 32.08N 115.08W 10 4.0L,3.8L
ECX II 18 17 52 04.4–.51 32.08N 115.11W 9 4.0L,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.7km az=136.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=2.5km az=-1.0.
MEX II 19 15 57 40.9–.46 32.37N 115.44W 17–244 3.9
¶601137055
MEX Error ellipse: s-maj=8.6km s-min=8.6km az=-1.0.
ISC II 19 17 36 04.4–1.0 32.18N–.04 115.36W–.04 1–21 13 0-1
ECX II 19 17 36 06.0–.37 32.23N 115.28W 6 2.8L,2.6 **¶601137056**
MEX II 19 17 36 06.3–.30 32.58N 115.24W 10 3.5,2.6
ISC Event type ke.
ECX Error ellipse: s-maj=1.8km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=6.5km s-min=8.0km az=-1.0.
ISC II 20 19 34 41.0–.96 32.14N–.02 115.25W–.02 9–6 4.4b,4.0s 346 0-107
BJI II 20 19 34 36.6 32.20N 115.20W 5 4.9b,4.9s **¶16057017**
ISCJB II 20 19 34 39.5–.43 32.16N–.02 115.22W–.01 6–3 4.3b,4.0s
IDC II 20 19 34 42.1–1.1 32.39N 114.95W 0 4.4,4.2
NEIC II 20 19 34 42.4 32.16N 115.29W 8 4.7L,4.5W
ECX II 20 19 34 42.4–.52 32.16N 115.29W 8 4.7L,4.5
MEX II 20 19 34 43.2–.52 32.23N 115.14W 15–7 5.0,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=13.6.
IDC Error ellipse: s-maj=22.2km s-min=8.1km az=36.0.
NEIC Event type fe. Felt [III] at Mexicali and [II] at Ensenada and Tijuana. Also felt at San Felipe. Felt at Puerto Penasco, Sonora. Felt [III] at Somerton, Wellton and Yuma, Arizona. Also felt at Dateland and Roll. Felt [III] at El Centro and [II] at Calexico, Chula Vista, El Cajon, Holtville, Imperial, Lakeside, San Diego, Spring Valley and Winterhaven, California. Felt in much of Imperial and San Diego Counties. After ECX. Moment Tensor Solution. $M_0$6.30000×10^{15}
ECX Error ellipse: s-maj=1.2km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=5.5km s-min=7.6km az=-1.0.
MEX II 20 19 47 29.7–.63 32.46N 115.37W 2 3.1
¶602734476
MEX Error ellipse: s-maj=14.0km s-min=5.1km az=-1.0.
ISC II 20 21 28 52.7–1.0 32.20N–.02 115.22W–.03 21–1 52 0-2
ISCJB II 20 21 28 52.8–.43 32.20N–.02 115.21W–.04 25–4 **¶16414867**
ECX II 20 21 28 54.3–.44 32.16N 115.30W 8 3.0L,2.8
NEIC II 20 21 28 54.3 32.16N 115.30W 8 3.0L,2.9L
MEX II 20 21 28 55.5–.69 32.27N 115.17W 22–17 3.3,2.9L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.5km az=174.5.
ECX Error ellipse: s-maj=0.8km s-min=1.4km az=-1.0.
NEIC Event type fe. Felt at Yuma, Arizona. After ECX.
MEX Error ellipse: s-maj=9.2km s-min=16.2km az=-1.0.
ECX II 21 00 24 25.2–.41 32.16N 115.28W 6 2.9L,2.7
NEIC II 21 00 24 25.2 32.16N 115.28W 6 2.9L,2.7 **¶16363008**
ECX Error ellipse: s-maj=0.8km s-min=2.1km az=-1.0.
NEIC Event type se. After ECX.
ISC II 21 04 50 22.3–.87 32.30N–.03 115.35W–.03 16–6 33 0-3
ISCJB II 21 04 50 22.6–.42 32.33N–.03 115.34W–.04 15–6 **¶16339054**
MEX II 21 04 50 22.9–.43 32.46N 115.13W 27–5 3.7
NEIC II 21 04 50 23.4 32.28N 115.35W 4 2.8L,2.5L
ECX II 21 04 50 23.4–.38 32.28N 115.36W 4 2.8L,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=170.2.
MEX Error ellipse: s-maj=14.6km s-min=21.0km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 22 10 06 48.5–1.0 32.30N–.05 115.35W–.08 12–10 17 0-1
ISCJB II 22 10 06 48.8–.75 32.30N–.06 115.32W–.08 11–9 **¶601137085**
ECX II 22 10 06 49.9–.67 32.31N 115.30W 6 2.3L,2.1
MEX II 22 10 06 49.1–.61 32.46N 115.08W 16–22 3.5,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=7.3km az=141.5.
ECX Error ellipse: s-maj=1.6km s-min=2.4km az=-1.0.
MEX Error ellipse: s-maj=93.2km s-min=27.6km az=-1.0.
ISC II 22 20 01 26.0–1.1 32.17N–.03 115.31W–.04 16–11 20 0-1
MEX II 22 20 01 27.2–1.1 32.26N 115.01W 31–43 3.5 **¶601137087**
ECX II 22 20 01 28.0–.40 32.22N 115.29W 10 2.6L,2.5
ISC Event type ke.
MEX Error ellipse: s-maj=14.7km s-min=74.5km az=-1.0.
ECX Error ellipse: s-maj=1.6km s-min=1.9km az=-1.0.
ISC II 23 16 18 33.8–1.0 32.19N–.03 115.31W–.06 15–11 19 0-1
ISCJB II 23 16 18 34.4–.67 32.21N–.07 115.3W–.10 14–14 **¶601137097**
ECX II 23 16 18 35.6–.47 32.20N 115.30W 6 2.4L,2.2
MEX II 23 16 18 36.6–.52 32.29N 115.22W 16–50 3.5,2.2

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=5.3km az=145.5.
ECX Error ellipse: s-maj=1.5km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=8.3km s-min=12.9km az=-1.0.
ISC II 23 19 32 59.9–2.1 32.23N–.08 115.22W–.07 20–3 18 0-1
ISCJB II 23 19 33 00.2–.77 32.24N–.04 115.24W–.05 22–7 **¶601137100**
ECX II 23 19 33 01.3–.51 32.19N 115.25W 6 2.7L,2.5
MEX II 23 19 33 01.6–.65 32.35N 115.13W 29–9 4.0,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.1km az=148.8.
ECX Error ellipse: s-maj=1.0km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=7.7km s-min=9.7km az=-1.0.
ISC II 23 22 44 42.2–1.1 32.16N–.04 115.25W–.05 26–10 20 0-1
ISCJB II 23 22 44 42.5–.53 32.16N–.03 115.26W–.06 22–8 **¶601137101**
ECX II 23 22 44 43.5–.39 32.16N 115.22W 6 2.9L,2.7
MEX II 23 22 44 44.7–.81 32.18N 115.26W 10 3.6,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.5km az=164.4.
ECX Error ellipse: s-maj=1.2km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=2.9km s-min=8.3km az=-1.0.
ISC II 25 00 27 37.1–.87 32.20N–.03 115.31W–.03 16–7 41 0-2
ISCJB II 25 00 27 37.3–.45 32.22N–.03 115.27W–.03 19–8 **¶16363020**
NEIC II 25 00 27 38.5 32.21N 115.30W 5 3.1L,2.7L
ECX II 25 00 27 38.5–.54 32.21N 115.30W 5 3.1L,3.0
MEX II 25 00 27 39.2–.62 32.24N 115.21W 10–28 3.7,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.5km az=15.8.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=11.5km s-min=24.4km az=-1.0.
ISC II 25 08 14 30.2–1.2 32.20N–.03 115.36W–.04 1–14 20 0-1
ECX II 25 08 14 32.1–.53 32.28N 115.31W 6 2.3L,2.2 **¶601137111**
MEX II 25 08 14 33.0–.56 32.36N 115.24W 13–85 3.8,2.2
ISC Event type ke.
ECX Error ellipse: s-maj=1.6km s-min=2.8km az=-1.0.
MEX Error ellipse: s-maj=69.9km s-min=101.4km az=-1.0.
ISC II 25 14 42 45.8–.91 32.35N–.04 115.50W–.03 14–9 32 0-1
ISCJB II 25 14 42 46.0–.70 32.38N–.03 115.48W–.03 14–6 **¶601710576**
ECX II 25 14 42 47.3–.64 32.40N 115.49W 5 2.9L,2.8
MEX II 25 14 42 47.6–1.3 32.48N 115.40W 11–163 3.5,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=30.7.
ECX Error ellipse: s-maj=1.8km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=134.2km s-min=159.7km az=-1.0.
ISC II 25 21 23 02.3–.94 32.28N–.03 115.34W–.03 13–8 27 0-1
ISCJB II 25 21 23 03.0–.85 32.32N–.05 115.30W–.06 18–9 **¶16363022**
MEX II 25 21 23 02.9–.78 32.49N 115.08W 20–9 3.5
NEIC II 25 21 23 04.8 32.30N 115.38W 3 2.8L
ECX II 25 21 23 04.8–.50 32.30N 115.38W 3 2.8L,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.5km az=139.8.
MEX Error ellipse: s-maj=11.0km s-min=13.2km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.9km s-min=1.9km az=-1.0.
ISC II 26 05 50 51.3–1.1 32.44N–.08 115.56W–.04 14 14 0-1
ISCJB II 26 05 50 51.5–.90 32.47N–.07 115.54W–.04 14 **¶601137124**
ECX II 26 05 50 52.5–.47 32.44N 115.53W 3 2.4L,2.2
MEX II 26 05 50 52.7–.61 32.61N 115.48W 20–269 3.3,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.0km az=11.7.
ECX Error ellipse: s-maj=2.9km s-min=1.1km az=-1.0.
MEX Error ellipse: s-maj=240.2km s-min=240.4km az=-1.0.
ISC III 05 04 45 01.9–1.3 32.12N–.03 115.07W–.03 10–11 49 0-3
ISCJB III 05 04 45 03.1–.73 32.08N–.03 115.09W–.03 14–5 **¶601137175**
ECX III 05 04 45 04.9–.55 32.09N 115.15W 7 3.3L,3.1
MEX III 05 04 45 05.3–.33 32.18N 115.00W 14–15 4.0,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.5km az=8.3.
ECX Error ellipse: s-maj=1.5km s-min=2.7km az=-1.0.
MEX Error ellipse: s-maj=13.5km s-min=22.1km az=-1.0.
ISC III 05 07 35 59.6–1.2 32.39N–.02 116.31W–.02 7–11 62 0-5
ISCJB III 05 07 36 00.7–.46 32.38N–.02 116.31W–.03 13–3 **¶16915392**
NEIC III 05 07 36 01.6 32.36N 116.31W 13 2.9L,2.7L
ECX III 05 07 36 01.6–.58 32.36N 116.31W 6 2.9L,2.7
MEX III 05 07 36 01.9–1.1 32.56N 116.36W 20–122 3.9,2.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.5km az=141.8.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=18.3km s-min=34.3km az=-1.0.
ISC III 05 16 11 36.4–1.0 32.28N–.04 115.29W–.03 23–6 45 0-3
ISCJB III 05 16 11 36.4–.47 32.27N–.03 115.30W–.03 24–4 **¶601137178**
ECX III 05 16 11 37.9–.52 32.25N 115.35W 7 3.5L,3.3
MEX III 05 16 11 38.9–.31 32.33N 115.24W 19–9 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.8km az=17.4.
ECX Error ellipse: s-maj=1.7km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=4.4km s-min=6.1km az=-1.0.
ISC III 05 16 27 34.6–.99 32.22N–.03 115.30W–.03 18–3 45 0-2
ISCJB III 05 16 27 35.5–.47 32.27N–.03 115.30W–.03 25–4 **¶601137179**
ECX III 05 16 27 36.8–.51 32.24N 115.33W 8 3.1L,2.9
MEX III 05 16 27 37.8–.37 32.33N 115.24W 20–10 3.8,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=5.3.
ECX Error ellipse: s-maj=1.5km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=4.8km s-min=5.8km az=-1.0.
ISC III 06 03 32 31.0–.82 32.80N–.02 115.62W–.01 17–1 74 0-7
ISCJB III 06 03 32 31.8–.29 32.80N–.02 115.61W–.02 25–2 **¶16919519**
NEIC III 06 03 32 32.8 32.82N 115.62W 16 3.0L
ECX III 06 03 32 33.1–.73 32.84N 115.63W 16–2 3.3L,3.1
MEX III 06 03 32 35.4–1.2 32.64N 115.52W 17–126 3.7,3.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.0km az=162.1.
NEIC Event type fe. Felt at El Centro and Imperial. After PAS.
ECX Error ellipse: s-maj=1.8km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=109.6km s-min=101.3km az=-1.0.
ISC III 07 18 18 26.6–.85 32.28N–.02 115.33W–.02 13–6 58 0-3
ISCJB III 07 18 18 27.4–.43 32.29N–.02 115.30W–.03 20–4 **¶16484522**
NEIC III 07 18 18 28.9 32.29N 115.37W 5 3.4L,3.3L
ECX III 07 18 18 28.9–.48 32.29N 115.37W 5 3.6L,3.2
MEX III 07 18 18 29.8–.33 32.36N 115.23W 20–6 4.0,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=4.0km az=3.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.2km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=4.5km s-min=4.2km az=-1.0.
ISC III 07 20 26 08.2–1.0 32.19N–.03 115.27W–.04 14–10 36 0-1
ISCJB III 07 20 26 08.7–.53 32.21N–.03 115.25W–.04 21–6 **¶16484523**
NEIC III 07 20 26 09.9 32.19N 115.27W 6 3.0L,3.0L
ECX III 07 20 26 09.9–.46 32.19N 115.28W 6 3.2L,3.0
MEX III 07 20 26 10.8–.28 32.25N 115.16W 15–44 3.7,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.1km az=18.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=31.6km s-min=49.6km az=-1.0.
ISC III 09 12 14 12.9–1.3 32.68N–.04 115.76W–.03 15–12 24 0-2
ISCJB III 09 12 14 13.7–.47 32.68N–.03 115.75W–.03 25–6 **¶601137208**
MEX III 09 12 14 16.6–.35 32.67N 115.74W 16–8 3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=157.6.

MEX Error ellipse: s-maj=9.0km s-min=5.0km az=-1.0.
ISC III 09 13 55 23.7–1.0 32.24N–.02 115.26W–.02 18–4 57 0-4
ISCJB III 09 13 55 24.0–.42 32.24N–.03 115.23W–.03 25–4 **¶16451959**
NEIC III 09 13 55 25.5 32.22N 115.31W 8 3.2L,3.1L
ECX III 09 13 55 25.5–.60 32.22N 115.31W 8 3.2L,3.0
MEX III 09 13 55 25.9–.39 32.29N 115.15W 15–12 4.2,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.9km az=9.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
MEX Error ellipse: s-maj=11.6km s-min=17.0km az=-1.0.
ISC III 13 13 25 57.2–1.1 32.48N–.03 115.48W–.03 17–9 44 0-6
ISCJB III 13 13 25 58.2–.36 32.42N–.03 115.48W–.03 23–5 **¶601137242**
ECX III 13 13 25 59.1–.64 32.39N 115.48W 7 2.8L,2.6
MEX III 13 13 26 00.0–.63 32.57N 115.42W 18–120 3.5,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=33.6.
ECX Error ellipse: s-maj=1.4km s-min=2.4km az=-1.0.
MEX Error ellipse: s-maj=7.9km s-min=6.2km az=-1.0.
ISC III 15 00 54 55.8–.00 32.56N–.04 115.69W–.03 14–9 24 0-2
ISCJB III 15 00 54 56.4–.54 32.57N–.06 115.71W–.04 12–7 **¶601137255**
ECX III 15 00 54 56.9–.56 32.55N 115.67W 5 2.6L,2.4
MEX III 15 00 54 57.3–.48 32.74N 115.68W 12–71 3.6,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.5km az=21.5.
ECX Error ellipse: s-maj=1.4km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=63.7km s-min=44.8km az=-1.0.
ISC III 15 17 24 33.4–1.1 32.13N–.02 115.29W–.04 7–11 30 0-3
ECX III 15 17 24 34.0–.50 32.13N 115.26W 6 3.6L,3.4 **¶601137260**
MEX III 15 17 24 36.1–.97 32.19N 115.20W 10 3.7,3.4
ISC Event type ke.
ECX Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=2.6km s-min=6.6km az=-1.0.
ISC III 18 03 17 42.5–.97 32.20N–.03 115.20W–.03 25–7 54 0-4
ISCJB III 18 03 17 42.1–.41 32.20N–.02 115.16W–.03 29–3 **¶601137287**
ECX III 18 03 17 43.4–.51 32.16N 115.26W 6 3.4L,3.2
MEX III 18 03 17 44.5–.54 32.19N 115.08W 10 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.0km az=158.8.
ECX Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.
MEX Error ellipse: s-maj=2.2km s-min=8.2km az=-1.0.
ISC III 18 21 19 02.6–.99 32.22N–.05 115.32W–.05 15–10 21 0-1
ISCJB III 18 21 19 03.0–.61 32.24N–.04 115.31W–.05 14–6 **¶601137295**
ECX III 18 21 19 04.2–.41 32.22N 115.31W 6 2.7L,2.6
MEX III 18 21 19 04.5–.37 32.36N 115.16W 24–5 3.5,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.5km az=141.8.
ECX Error ellipse: s-maj=1.3km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=6.5km s-min=7.3km az=-1.0.
ISC III 19 01 31 13.6–1.1 32.18N–.03 115.19W–.03 17–10 47 0-4
ISCJB III 19 01 31 14.6–.46 32.20N–.03 115.20W–.04 27–4 **¶16951377**
NEIC III 19 01 31 16.1 32.16N 115.30W 6 3.2L,3.0L
ECX III 19 01 31 16.1–.44 32.16N 115.30W 6 3.2L,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=158.9.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=2.0km az=-1.0.
ISC III 22 21 24 18.8–.95 32.66N–.02 115.69W–.02 20–3 63 0-3
IASPE III 22 21 24 18.7–.97 32.66N–.03 115.68W–.02 20–4 **¶16529550**
ISCJB III 22 21 24 19.6–.30 32.71N–.02 115.70W–.02 18–3
NEIC III 22 21 24 20.6 32.68N 115.72W 7 3.0L,2.9L
ECX III 22 21 24 21.0–.57 32.68N 115.73W 3 2.9L,2.7
MEX III 22 21 24 22.1–.86 32.63N 115.64W 16–15 3.9,2.7
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=4.0km s-min=3.1km az=166.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=1.7.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.4km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=28.1km s-min=5.2km az=-1.0.
ISC III 26 20 01 34.5–.88 32.30N–.02 115.37W–.02 16–7 129 0-7
ISCJB III 26 20 01 34.9–.32 32.29N–.02 115.32W–.02 17–3 **¶16633233**
ECX III 26 20 01 36.4–.58 32.30N 115.38W 5 3.6L,3.4
NEIC III 26 20 01 36.4 32.30N 115.38W 5 3.6L,3.5L
MEX III 26 20 01 37.3–.82 32.38N 115.29W 15 3.7,3.5L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=5.3.
ECX Error ellipse: s-maj=1.3km s-min=1.5km az=-1.0.
NEIC Event type fe. Felt [III] at Mexicali. Felt at Calexico and El Centro, California. After ECX.
MEX Error ellipse: s-maj=3.1km s-min=2.8km az=-1.0.
ISC III 27 05 53 01.2–1.1 32.19N–.03 115.29W–.04 15–11 24 0-1
ISCJB III 27 05 53 01.4–.58 32.22N–.03 115.26W–.04 17–12 **¶601137364**
ECX III 27 05 53 02.5–.55 32.21N 115.29W 6 2.8L,2.6
MEX III 27 05 53 03.4–.48 32.25N 115.21W 10 3.6,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.8km az=152.8.
ECX Error ellipse: s-maj=1.2km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=1.2km s-min=2.4km az=-1.0.
ISC III 27 20 27 41.7–1.4 32.24N–.05 115.12W–.10 28–10 16 0-1
ISCJB III 27 20 27 42.8–1.4 32.19N–.08 115.2W–.20 20–14 **¶601137373**
ECX III 27 20 27 44.2–.27 32.18N 115.30W 7 2.7L,2.5
MEX III 27 20 27 45.1–.83 32.23N 115.19W 10 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.9km s-min=6.5km az=154.8.
ECX Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=2.1km s-min=7.2km az=-1.0.
ISC III 28 00 25 21.6–.90 32.30N–.03 115.39W–.02 15–6 53 0-15
ISCJB III 28 00 25 21.5–.41 32.32N–.03 115.34W–.03 20–4 **¶16545131**
NEIC III 28 00 25 22.8 32.29N 115.37W 6 3.7L,3.3L
ECX III 28 00 25 22.8–.52 32.29N 115.37W 6 3.4L,3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=4.1km az=15.5.
NEIC Event type fe. Felt at Yuma, Arizona. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=1.7km az=-1.0.
ISC III 28 03 46 55.7–.86 32.41N–.02 115.15W–.02 18–4 61 0-4
MEX III 28 03 46 55.8–.94 32.52N 115.01W 2–6 3.7 **¶16447682**
ISCJB III 28 03 46 56.0–.36 32.41N–.02 115.17W–.03 22–3 3.7
NEIC III 28 03 46 57.1 32.36N 115.16W 6 3.2L,2.9L
ECX III 28 03 46 57.1–.67 32.36N 115.16W 6 3.2L,3.1
ISC Event type se.
MEX Error ellipse: s-maj=6.1km s-min=5.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.6km az=17.3.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=2.0km s-min=2.6km az=-1.0.
ISC III 28 04 32 55.3–.73 32.39N–.02 115.18W–.02 17–4 110 0-38
IDC III 28 04 32 53.3–1.5 32.34N 115.33W 0 3.8b,3.7 **¶16364035**
ISCJB III 28 04 32 54.7–.28 32.38N–.02 115.16W–.02 20–2 3.6b,3.3s
MEX III 28 04 32 56.7–.97 32.45N 115.11W 9–3 4.0,3.3s
ECX III 28 04 32 56.0–.51 32.36N 115.19W 8 4.2L,4.0
NEIC III 28 04 32 56.0 32.36N 115.19W 8 4.2L,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=9.4km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.7km az=151.3.
MEX Error ellipse: s-maj=6.4km s-min=6.6km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=1.5km az=-1.0.
NEIC Event type fe. Felt [III] at Mexicali. Also felt at Algodones. Felt at Yuma, Arizona and at Calexico, El Centro and Imperial, California. After ECX.
ISC III 28 04 49 33.8–.83 32.38N–.03 115.17W–.02 17–5 45 0-6
ISCJB III 28 04 49 34.2–.47 32.40N–.04 115.15W–.04 15–5 **¶16447683**
NEIC III 28 04 49 35.6 32.38N 115.17W 6 3.0L,2.8L
MEX III 28 04 49 35.5–.99 32.48N 115.08W 7–5 3.8,2.8L
ECX III 28 04 49 35.6–.56 32.38N 115.17W 6 3.0L,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=28.3.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=7.0km s-min=7.1km az=-1.0.
ECX Error ellipse: s-maj=1.7km s-min=1.8km az=-1.0.
ISC III 28 16 57 16.1–.93 32.36N–.04 115.18W–.03 16–5 32 0-2
ISCJB III 28 16 57 15.8–.63 32.39N–.03 115.16W–.03 14–4 **¶601137384**
ECX III 28 16 57 17.2–.56 32.36N 115.19W 5 2.5L
MEX III 28 16 57 17.9–.88 32.38N 115.08W 7–7 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=161.7.
ECX Error ellipse: s-maj=1.4km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=11.4km s-min=10.8km az=-1.0.
MEX III 28 17 32 13.5–.65 32.40N 115.08W 10–3 3.6 ¶601137385
MEX Error ellipse: s-maj=9.6km s-min=6.9km az=-1.0.
ISC III 28 22 27 32.0–.93 32.43N–.03 115.10W–.03 18–2 45 0-2
ISCJB III 28 22 27 32.9–.42 32.38N–.03 115.16W–.03 20–4 **¶16545133**
MEX III 28 22 27 33.9–.80 32.43N 115.03W 6–4 3.7
NEIC III 28 22 27 34.4 32.41N 115.17W 4 2.7L,2.6L
ECX III 28 22 27 34.4–.51 32.41N 115.17W 4 2.6L,2.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=41.4.
MEX Error ellipse: s-maj=5.5km s-min=6.2km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=3.5km s-min=1.8km az=-1.0.
ISC III 28 22 32 38.3–.95 32.31N–.03 115.22W–.03 13–6 41 0-4
ISCJB III 28 22 32 37.5–.70 32.37N–.03 115.14W–.04 14–5 **¶16545134**
MEX III 28 22 32 37.9–.98 32.47N 115.00W 6–5 3.8
NEIC III 28 22 32 38.7 32.36N 115.15W 6 3.1L,3.0L
ECX III 28 22 32 38.7–.63 32.36N 115.15W 6 3.1L,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=155.4.
MEX Error ellipse: s-maj=8.1km s-min=7.0km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=1.9km az=-1.0.
ISC III 28 22 47 09.2–1.0 32.33N–.03 115.15W–.04 19–3 32 0-2
ISCJB III 28 22 47 09.7–.56 32.35N–.03 115.15W–.05 15–5 **¶16545135**
ECX III 28 22 47 10.2–.55 32.31N 115.16W 4 2.5L,2.4
MEX III 28 22 47 10.0–.92 32.53N 115.05W 8–7 3.4,2.4
NEIC III 28 22 47 10.2 32.31N 115.16W 4 2.5L,2.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=164.2.
ECX Error ellipse: s-maj=1.5km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=10.1km s-min=11.3km az=-1.0.
NEIC Event type se. After ECX.
ISC III 30 13 20 08.7–1.2 32.21N–.06 115.21W–.09 24–14 21 0-1
ISCJB III 30 13 20 08.6–.78 32.22N–.04 115.19W–.06 25–6 **¶601137416**
ECX III 30 13 20 10.1–.54 32.19N 115.26W 6 2.6L,2.4
MEX III 30 13 20 10.9–.62 32.22N 115.15W 10 3.3,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.3km az=154.1.
ECX Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=1.7km s-min=4.3km az=-1.0.
ISC III 31 08 32 06.5–1.1 32.28N–.04 115.25W–.05 26–10 22 0-1
ISCJB III 31 08 32 07.4–.72 32.27N–.05 115.26W–.06 22–7 **¶601137429**
ECX III 31 08 32 08.5–.38 32.25N 115.30W 6 2.7L,2.5
MEX III 31 08 32 10.1–.91 32.29N 115.27W 10 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.6km az=136.8.
ECX Error ellipse: s-maj=1.3km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=2.5km s-min=3.9km az=-1.0.
ISC III 31 20 22 55.9–.72 32.39N–.02 115.23W–.02 8–4 4.1b,3.6s 127 0-92
IDC III 31 20 22 54.3–1.6 32.23N 115.28W 0 4.1,3.9b **¶16401580**
ISCJB III 31 20 22 55.0–.46 32.41N–.02 115.20W–.02 13–3 3.8b,3.6s
ECX III 31 20 22 56.7–.65 32.37N 115.22W 6 4.4L,4.1
NEIC III 31 20 22 56.7 32.38N 115.22W 6 4.4L,4.2
MEX III 31 20 22 57.5–1.1 32.41N 115.20W 3–31 4.2,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=31.4km s-min=11.3km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.6km az=169.8.
ECX Error ellipse: s-maj=1.2km s-min=1.8km az=-1.0.
NEIC Event type fe. Felt [III] at Mexicali. Felt [II] at Calexico, El Centro and Imperial, California. Also felt at Brawley, Cardiff-by-the-Sea, Del Mar, El Cajon, Encinitas, Holtville, Palm Desert, San Jacinto, San Marcos and Valley Center. Felt [II] at Yuma, Arizona. After ECX.
MEX Error ellipse: s-maj=30.8km s-min=34.3km az=-1.0.
ISC III 31 21 30 53.9–.97 32.58N–.05 115.74W–.04 14–8 20 0-2
ECX III 31 21 30 54.8–.68 32.60N 115.66W 3 2.3L,2.2 **¶16487909**
ISCJB III 31 21 30 55.3–.52 32.65N–.08 115.78W–.04 13–7 2.3L,2.2
MEX III 31 21 30 58.9–.64 32.52N 115.79W 20–90 3.4,2.2
ISC Event type ke.
ECX Error ellipse: s-maj=2.6km s-min=5.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=5.3km az=177.8.
MEX Error ellipse: s-maj=7.5km s-min=3.7km az=-1.0.
ISC III 31 21 50 03.7–.92 32.64N–.04 115.73W–.03 14–7 24 0-2
ISCJB III 31 21 50 04.1–.49 32.63N–.05 115.73W–.03 12–4 **¶601137439**
MEX III 31 21 50 04.3–1.0 32.84N 115.65W 18–77 3.6
ECX III 31 21 50 05.2–.59 32.64N 115.75W 3 2.5L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.4km az=4.1.
MEX Error ellipse: s-maj=69.3km s-min=50.8km az=-1.0.
ECX Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC IV 01 18 29 27.2–.91 32.66N–.02 115.73W–.02 12–7 94 0-5
ISCJB IV 01 18 29 27.5–.28 32.65N–.02 115.73W–.02 11–2 **¶16531999**
NEIC IV 01 18 29 29.2 32.65N 115.74W 4 3.0L,2.9L
ECX IV 01 18 29 29.2–.50 32.65N 115.74W 4 3.0L,2.8
MEX IV 01 18 29 30.0–.90 32.53N 115.67W 16–20 3.6,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.4km az=13.1.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=74.0km s-min=8.0km az=-1.0.
ISC IV 02 04 37 15.9–1.0 32.06N–.03 116.12W–.03 16–10 21 1-1
ISCJB IV 02 04 37 16.3–.54 32.07N–.03 116.14W–.04 24–13 **¶601137452**
ECX IV 02 04 37 17.2–.53 32.06N 116.11W 6 2.6L,2.4
MEX IV 02 04 37 18.1–.37 32.11N 116.15W 9 3.3,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.2km az=1.8.
ECX Error ellipse: s-maj=1.3km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=4.9km s-min=2.9km az=-1.0.
ISC IV 05 15 45 51.4–.98 32.17N–.03 115.19W–.04 28–8 40 0-4
ISCJB IV 05 15 45 51.7–.50 32.16N–.03 115.19W–.05 25–5 **¶16529564**
NEIC IV 05 15 45 53.1 32.14N 115.24W 8 2.8L,2.8L
MEX IV 05 15 45 53.9–.71 32.19N 115.16W 17–168 3.7,2.8L
ECX IV 05 15 45 53.1–.58 32.14N 115.24W 8 3.0L,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.1km az=169.4.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=9.4km s-min=11.3km az=-1.0.
ECX Error ellipse: s-maj=0.9km s-min=1.5km az=-1.0.
ISC IV 05 16 16 43.2–.93 32.19N–.02 115.27W–.02 17–7 56 0-5
ISCJB IV 05 16 16 43.1–.51 32.20N–.02 115.20W–.03 15–4 **¶16529565**
NEIC IV 05 16 16 44.7 32.18N 115.26W 8 3.2L,3.0L
ECX IV 05 16 16 44.7–.49 32.18N 115.26W 8 3.2L,3.0
MEX IV 05 16 16 45.8–.50 32.26N 115.15W 16–130 3.6,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=158.3.
NEIC Event type se. After ECX.

ECX Error ellipse: s-maj=0.8km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=85.3km s-min=135.9km az=-1.0.
ISC IV 06 18 30 14.7–1.0 32.59N–.03 115.87W–.03 18–4 28 0-2
ISCJB IV 06 18 30 15.7–.48 32.63N–.05 115.90W–.03 12–5 **¶601137489**
ECX IV 06 18 30 16.6–.64 32.62N 115.89W 4 2.9L,2.7
MEX IV 06 18 30 17.5–.70 32.57N 115.83W 16–18 3.7,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.5km az=179.3.
ECX Error ellipse: s-maj=1.3km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=43.2km s-min=3.6km az=-1.0.
ISC IV 08 10 34 30.4–.83 32.67N–.02 115.74W–.02 15–5 87 0-6
IASPE IV 08 10 34 30.3–.91 32.69N–.03 115.74W–.02 17–4 **¶16577749**
ISCJB IV 08 10 34 30.3–.32 32.68N–.02 115.70W–.02 13–2
NEIC IV 08 10 34 31.7 32.63N 115.73W 3 3.5L,3.3L
ECX IV 08 10 34 31.7–.51 32.63N 115.73W 3 3.5L,3.3
MEX IV 08 10 34 32.4–.44 32.81N 115.72W 20–76 3.9,3.3
ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=162.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=165.9.
NEIC Event type fe. Felt at El Centro, California. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=14.8km s-min=3.4km az=-1.0.
ISC IV 08 15 03 07.5–.91 33.00N–.02 116.32W–.03 16–8 34 0-2
ISCJB IV 08 15 03 08.0–.41 33.00N–.02 116.32W–.03 12–4 **¶601711079**
ECX IV 08 15 03 09.0–.60 33.00N 116.33W 7 2.6L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=23.7.
ECX Error ellipse: s-maj=1.5km s-min=2.0km az=-1.0.
ISC IV 08 15 45 58.3–1.1 32.05N–.03 115.14W–.04 10–10 33 0-1
ISCJB IV 08 15 45 58.6–.59 32.06N–.03 115.13W–.06 6–8 **¶601137508**
ECX IV 08 15 46 00.7–.54 32.10N 115.12W 7 3.0L,2.8
MEX IV 08 15 46 00.0–.70 32.18N 114.87W 27–18 3.6,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=3.9km az=166.7.
ECX Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=4.1km s-min=8.5km az=-1.0.
ISC IV 08 21 38 33.6–3.3 32.32N–.04 115.36W–.03 16–25 25 0-1
ISCJB IV 08 21 38 33.8–.71 32.35N–.04 115.32W–.05 21–6 **¶601137511**
ECX IV 08 21 38 35.3–.43 32.31N 115.36W 6 2.6L,2.5
MEX IV 08 21 38 36.2–.53 32.36N 115.30W 10 3.3,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.2km az=141.8.
ECX Error ellipse: s-maj=0.9km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=4.8km s-min=2.6km az=-1.0.
ISC IV 08 23 42 25.3–1.2 32.23N–.04 115.24W–.04 21–1 27 0-1
ISCJB IV 08 23 42 26.0–.55 32.21N–.03 115.27W–.04 20–8 **¶601137514**
MEX IV 08 23 42 27.6–.50 32.30N 115.13W 27–7 3.5
ECX IV 08 23 42 27.0–.49 32.19N 115.29W 7 2.6L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.9km az=164.8.
MEX Error ellipse: s-maj=4.2km s-min=6.1km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.
ISC IV 09 08 58 48.3–.59 32.62N–.02 115.73W–.02 11–4 140 0-11
IASPE IV 09 08 58 48.2–.82 32.67N–.02 115.72W–.02 18–2 **¶16415763**
ISCJB IV 09 08 58 48.4–.28 32.65N–.02 115.69W–.02 14–2
NEIC IV 09 08 58 49.9 32.63N 115.73W 4 4.1,4.1L
ECX IV 09 08 58 49.9–.74 32.63N 115.73W 4 4.1L,3.9
MEX IV 09 08 58 50.5–1.2 32.68N 115.63W 20–261 4.1,3.9
ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=3.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=174.8.
NEIC Event type fe. Felt [III] at Mexicali. Also felt at Tecate. Felt [II] at Calexico, El Centro and Imperial, California. Also felt at Blythe, Bonita, Chula Vista, Coronado, El Cajon, Heber, Holtville, Pauma Valley, Ramona, San Diego and San Ysidro. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_S239.29000°,δ60.00000°,λ-90.00000°.
MEX Error ellipse: s-maj=40.1km s-min=19.9km az=-1.0.
ISC IV 09 10 42 26.8–.93 32.65N–.02 115.73W–.02 19–2 64 0-3
IASPE IV 09 10 42 26.8–.91 32.65N–.03 115.74W–.02 18–3 **¶16577771**
ISCJB IV 09 10 42 27.2–.30 32.64N–.02 115.70W–.02 18–4
NEIC IV 09 10 42 28.7 32.63N 115.74W 21 3.5L,3.1L
MEX IV 09 10 42 28.6–.74 32.71N 115.61W 20–93 3.5,3.1L
ECX IV 09 10 42 28.7–.62 32.63N 115.74W 4 3.2L,3.0
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=3.8km s-min=3.0km az=179.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=18.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=83.2km s-min=74.1km az=-1.0.
ECX Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0.
ISC IV 09 16 46 40.5–.92 32.66N–.02 115.72W–.02 18–3 54 0-3
ISCJB IV 09 16 46 40.7–.30 32.66N–.02 115.71W–.02 20–3 **¶16577774**
MEX IV 09 16 46 41.8–.94 32.78N 115.62W 16–73 3.5
ECX IV 09 16 46 42.4–.58 32.64N 115.75W 3 2.9L,2.7
NEIC IV 09 16 46 42.4 32.64N 115.75W 3 2.9L,2.9L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.4km az=7.7.
MEX Error ellipse: s-maj=64.5km s-min=50.0km az=-1.0.
ECX Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
NEIC Event type fe. Felt at Calexico, California. After ECX.
ISC IV 09 21 44 14.3–1.2 32.11N–.03 115.12W–.04 17–10 31 0-2
ISCJB IV 09 21 44 15.5–.51 32.09N–.03 115.09W–.05 29–4 **¶601137528**
MEX IV 09 21 44 17.6–.45 32.09N 115.06W 10 3.4
ECX IV 09 21 44 17.4–.70 32.06N 115.19W 7 2.8L,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.3km az=178.4.
MEX Error ellipse: s-maj=1.2km s-min=3.3km az=-1.0.
ECX Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.
ISC IV 10 12 00 28.1–1.1 32.26N–.05 115.21W–.06 29–8 25 0-4
MEX IV 10 12 00 30.5–.51 32.27N 115.11W 23–9 3.6 **¶16577779**
NEIC IV 10 12 00 31.1 32.23N 115.32W 6 2.8L,2.4L
ECX IV 10 12 00 31.1–.48 32.23N 115.32W 6 2.8L,2.6
ISC Event type se.
MEX Error ellipse: s-maj=4.2km s-min=6.3km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.7km s-min=2.7km az=-1.0.
MEX IV 10 15 53 03.0–.41 32.38N 115.05W 26–5 3.7
¶602596065
MEX Error ellipse: s-maj=3.6km s-min=6.9km az=-1.0.
ISC IV 10 18 06 11.7–1.0 32.26N–.03 115.23W–.03 19–2 44 0-2
ISCJB IV 10 18 06 11.8–.39 32.26N–.03 115.24W–.03 22–4 **¶601137543**
MEX IV 10 18 06 13.4–.39 32.35N 115.10W 16–3 3.7
ECX IV 10 18 06 13.0–.56 32.24N 115.27W 6 3.2L,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=39.0.
MEX Error ellipse: s-maj=6.7km s-min=7.3km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=1.9km az=-1.0.
ISC IV 10 21 19 34.0–1.1 32.26N–.03 115.36W–.03 18–2 21 0-1
ISCJB IV 10 21 19 34.3–.62 32.27N–.04 115.35W–.05 15–16 **¶601137545**
ECX IV 10 21 19 35.3–.54 32.25N 115.35W 7 2.6L,2.4
MEX IV 10 21 19 36.6–.91 32.29N 115.34W 8–204 3.5,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.4km az=139.7.
ECX Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=93.7km s-min=184.0km az=-1.0.
ISC IV 11 04 00 55.3–.86 32.18N–.02 115.27W–.02 12–6 98 0-8
ISCJB IV 11 04 00 55.2–.51 32.19N–.02 115.16W–.02 15–3 **¶16577786**
MEX IV 11 04 00 57.5–.56 32.32N 115.10W 27–6 4.1
NEIC IV 11 04 00 57.2 32.19N 115.27W 7 3.8L,3.7L
ECX IV 11 04 00 57.2–.44 32.19N 115.27W 7 3.9L,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.9km az=28.5.
MEX Error ellipse: s-maj=5.1km s-min=7.5km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.6km s-min=1.1km az=-1.0.
ISC IV 12 01 33 02.9–1.1 32.16N–.03 115.13W–.04 16–11 32 0-2
ISCJB IV 12 01 33 03.7–.48 32.17N–.03 115.14W–.04 23–5 **¶602557245**
MEX IV 12 01 33 05.6–.48 32.20N 115.07W 10–37 3.6
ECX IV 12 01 33 05.5–.43 32.15N 115.24W 6 2.7L,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=151.1.
MEX Error ellipse: s-maj=26.3km s-min=46.2km az=-1.0.
ECX Error ellipse: s-maj=1.3km s-min=2.6km az=-1.0.
ISC IV 12 17 57 17.5–1.3 32.22N–.06 115.23W–.07 30–10 16 0-1
ISCJB IV 12 17 57 18.0–1.3 32.22N–.08 115.2W–.10 27–11 **¶601137564**
ECX IV 12 17 57 19.6–.50 32.19N 115.28W 6 2.6L,2.4
MEX IV 12 17 57 20.2–.68 32.25N 115.20W 16–999 3.6,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=6.4km az=144.1.
ECX Error ellipse: s-maj=1.0km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC IV 13 04 37 09.4–.91 32.30N–.02 115.35W–.02 17–8 63 0-4
ISCJB IV 13 04 37 10.2–.37 32.31N–.02 115.34W–.03 19–5 **¶16447716**
NEIC IV 13 04 37 11.4 32.29N 115.37W 6 3.0L,2.9L
ECX IV 13 04 37 11.4–.54 32.29N 115.37W 6 3.1L,2.9
MEX IV 13 04 37 12.5–.69 32.36N 115.26W 16–70 3.7,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.7km az=145.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=1.1km az=-1.0.
MEX Error ellipse: s-maj=53.7km s-min=73.9km az=-1.0.
ISC IV 13 07 16 48.1–.88 32.30N–.03 115.37W–.03 17–7 36 0-1
ISCJB IV 13 07 16 48.5–.49 32.30N–.03 115.37W–.04 14–5 **¶601137569**
ECX IV 13 07 16 49.7–.54 32.30N 115.37W 5 2.7L,2.5
MEX IV 13 07 16 50.3–.73 32.36N 115.27W 16–46 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=150.8.
ECX Error ellipse: s-maj=0.9km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=37.8km s-min=52.8km az=-1.0.
ISC IV 13 17 53 43.4–.97 32.13N–.02 115.15W–.03 27–8 48 0-2
ISCJB IV 13 17 53 43.6–.44 32.13N–.02 115.13W–.04 25–4 **¶16587490**
NEIC IV 13 17 53 43.8 32.07N 115.17W 10 3.0L
ECX IV 13 17 53 45.2–.54 32.13N 115.20W 8 3.1L,2.9
MEX IV 13 17 53 46.7–.50 32.16N 115.18W 16–6 3.7,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=179.6.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.0km s-min=1.8km az=-1.0.
MEX Error ellipse: s-maj=1.8km s-min=4.0km az=-1.0.
MEX IV 13 21 21 31.1–.72 32.26N 115.18W 10–78 3.5
¶602596151
MEX Error ellipse: s-maj=45.0km s-min=71.3km az=-1.0.
ISC IV 14 06 01 05.3–1.0 32.19N–.03 115.23W–.03 20–3 40 0-2
ISCJB IV 14 06 01 05.5–.47 32.19N–.03 115.21W–.04 21–5 **¶601137577**
ECX IV 14 06 01 06.9–.61 32.19N 115.26W 8 3.3L,3.1
MEX IV 14 06 01 07.9–.60 32.24N 115.19W 16–78 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.8km az=20.9.
ECX Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.
MEX Error ellipse: s-maj=51.9km s-min=83.7km az=-1.0.
ISC IV 15 05 08 31.8–.86 32.40N–.03 115.48W–.02 15–7 48 0-2
NEIC IV 15 05 08 33.3 32.40N 115.48W 5 2.9L,2.7L **¶16577824**
ECX IV 15 05 08 33.3–.64 32.40N 115.48W 5 2.9L,2.8
MEX IV 15 05 08 34.0–.70 32.48N 115.41W 11–111 3.7,2.8
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=87.2km s-min=94.9km az=-1.0.
ISC IV 15 19 45 34.6–.97 32.21N–.03 115.30W–.04 17 19 0-1
ISCJB IV 15 19 45 35.2–.54 32.23N–.04 115.29W–.05 17 **¶601137597**
MEX IV 15 19 45 35.6–.60 32.34N 115.08W 32–6 3.5
ECX IV 15 19 45 36.1–.43 32.21N 115.29W 6 2.7L,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=0.9.
MEX Error ellipse: s-maj=6.4km s-min=10.0km az=-1.0.
ECX Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0.
ISC IV 15 20 39 18.6–.85 32.27N–.02 115.36W–.02 17–5 72 0-7
ISCJB IV 15 20 39 18.5–.31 32.31N–.02 115.31W–.02 27–2 **¶16442657**
NEIC IV 15 20 39 19.0 32.27N 115.37W 5 3.2L,3.1L
ECX IV 15 20 39 19.9–.59 32.27N 115.37W 5 3.1L,2.9
MEX IV 15 20 39 20.8–.74 32.34N 115.26W 14–218 3.7,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=3.1km az=21.8.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=1.1km az=-1.0.
MEX Error ellipse: s-maj=164.3km s-min=220.0km az=-1.0.
ISC IV 15 21 03 47.5–1.0 32.27N–.03 115.36W–.04 18–4 22 0-1
ISCJB IV 15 21 03 47.8–.58 32.28N–.04 115.36W–.05 14–6 **¶601137598**
MEX IV 15 21 03 49.5–.67 32.36N 115.24W 20–18 3.7
ECX IV 15 21 03 49.0–.59 32.28N 115.36W 6 2.9L,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=152.4.
MEX Error ellipse: s-maj=13.1km s-min=14.5km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=2.2km az=-1.0.
ISC IV 16 16 27 22.2–1.0 32.33N–.05 115.27W–.05 27–8 22 0-1
ECX IV 16 16 27 24.5–.39 32.27N 115.35W 6 2.9L,2.7 **¶601137612**
MEX IV 16 16 27 25.3–.64 32.36N 115.24W 16–39 3.8,2.7
ISC Event type ke.
ECX Error ellipse: s-maj=0.8km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=38.3km s-min=51.8km az=-1.0.
MEX IV 16 19 30 27.1–.43 32.47N 115.10W 5 3.6
¶602596255
MEX Error ellipse: s-maj=5.7km s-min=9.2km az=-1.0.
ISC IV 17 11 37 32.4–1.0 32.32N–.05 115.32W–.06 25–9 23 0-1
MEX IV 17 11 37 34.3–.52 32.41N 115.19W 26–6 3.6 **¶601137619**
ECX IV 17 11 37 34.3–.53 32.27N 115.35W 6 2.4L,2.2
ISC Event type ke.
MEX Error ellipse: s-maj=11.6km s-min=10.7km az=-1.0.
ECX Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.
ISC IV 17 18 45 30.4–1.3 32.20N–.04 115.10W–.08 28–10 21 0-1
ISCJB IV 17 18 45 31.0–1.1 32.18N–.05 115.1W–.10 24–8 **¶601137623**
ECX IV 17 18 45 32.5–.50 32.12N 115.23W 7 2.7L,2.5
MEX IV 17 18 45 33.7–.78 32.21N 115.11W 11–125 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=5.4km az=159.2.
ECX Error ellipse: s-maj=1.0km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=81.9km s-min=143.2km az=-1.0.
ISC IV 18 15 24 15.4–1.1 32.72N–.06 115.99W–.03 14–7 19 0-2
ISCJB IV 18 15 24 15.6–.85 32.76N–.06 116.01W–.04 3–8 **¶601137631**
ECX IV 18 15 24 16.5–.68 32.72N 115.99W 3 2.7L,2.4
MEX IV 18 15 24 17.0–.40 32.87N 116.19W 4–5 3.7,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.5km az=165.5.
ECX Error ellipse: s-maj=2.7km s-min=1.6km az=-1.0.

MEX Error ellipse: s-maj=6.1km s-min=4.2km az=-1.0.
MEX IV 18 21 16 14.3–.44 32.30N 115.17W 26–8 3.6 ¶602596313
MEX Error ellipse: s-maj=3.3km s-min=6.3km az=-1.0.
ISC IV 19 18 11 22.1–.84 32.58N–.02 115.69W–.02 17–6 65 0-6
ISCJB IV 19 18 11 22.3–.32 32.60N–.02 115.68W–.02 22–3 **¶16450771**
NEIC IV 19 18 11 23.0 32.55N 115.69W 10 2.8L
ECX IV 19 18 11 23.4–.55 32.55N 115.69W 4 2.7L,2.5
MEX IV 19 18 11 24.3–.73 32.64N 115.66W 17–73 3.5,2.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.4km az=164.9.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.2km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=60.0km s-min=49.3km az=-1.0.
ISC IV 20 06 42 26.5–.95 32.23N–.04 115.36W–.05 13–10 18 0-1
ISCJB IV 20 06 42 26.8–.67 32.24N–.04 115.35W–.07 11–8 **¶601137659**
MEX IV 20 06 42 27.7–.51 32.39N 115.15W 26–5 3.8
ECX IV 20 06 42 28.4–.45 32.24N 115.37W 5 2.6L,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.8km az=153.9.
MEX Error ellipse: s-maj=7.5km s-min=9.4km az=-1.0.
ECX Error ellipse: s-maj=1.4km s-min=3.8km az=-1.0.
ISC IV 20 07 42 58.7–1.1 32.37N–.04 115.35W–.05 23–7 23 0-1
ECX IV 20 07 43 00.3–.50 32.31N 115.36W 6 2.5L,2.3 **¶601137661**
MEX IV 20 07 43 00.7–.31 32.40N 115.27W 14–19 3.6,2.3
ISC Event type ke.
ECX Error ellipse: s-maj=1.5km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=19.4km s-min=24.9km az=-1.0.
ISC IV 20 10 37 08.0–1.2 32.20N–.03 115.40W–.04 4–14 26 0-1
MEX IV 20 10 37 09.8–.97 32.42N 115.18W 27–16 3.7 **¶601137663**
ECX IV 20 10 37 09.3–.72 32.25N 115.35W 6 2.6L,2.4
ISC Event type ke.
MEX Error ellipse: s-maj=150.4km s-min=18.5km az=-1.0.
ECX Error ellipse: s-maj=1.6km s-min=2.5km az=-1.0.
ISC IV 20 11 10 00.0–1.1 32.36N–.06 115.32W–.06 24–8 16 0-1
ISCJB IV 20 11 10 00.8–.75 32.32N–.06 115.34W–.06 17–10 **¶601137664**
ECX IV 20 11 10 01.9–.42 32.30N 115.35W 6 2.2L,2.0
MEX IV 20 11 10 02.1–.42 32.43N 115.20W 16–8 3.4,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.6km az=37.2.
ECX Error ellipse: s-maj=1.2km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=23.6km s-min=23.6km az=-1.0.
ISC IV 21 03 50 32.7–.86 32.45N–.02 115.54W–.02 15–7 48 0-2
MEX IV 21 03 50 30.7–.62 32.79N 115.20W 28–14 3.8 **¶16483633**
ISCJB IV 21 03 50 33.0–.37 32.48N–.03 115.50W–.03 21–4 3.8
NEIC IV 21 03 50 34.0 32.41N 115.53W 6 3.0L,2.9L
ECX IV 21 03 50 34.0–.48 32.41N 115.54W 6 3.2L,3.0
ISC Event type se.
MEX Error ellipse: s-maj=8.4km s-min=11.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.6km az=139.8.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.6km s-min=1.5km az=-1.0.
ISC IV 21 04 11 16.2–.85 32.46N–.02 115.55W–.02 16–6 96 0-7
MEX IV 21 04 11 15.9–.86 32.70N 115.32W 30–13 3.9 **¶16449651**
ISCJB IV 21 04 11 16.0–.39 32.44N–.02 115.51W–.02 13–3 3.9
NEIC IV 21 04 11 17.0 32.41N 115.55W 4 4.0L,3.9
ECX IV 21 04 11 17.0–.68 32.41N 115.55W 4 4.1L,3.9
ISC Event type fe.
MEX Error ellipse: s-maj=11.9km s-min=19.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=17.9.
NEIC Event type fe. Felt [III] at Mexicali. Felt [IV] at Calexico and [II] at El Centro, California. Also felt at Brawley, El Cajon, Imperial, La Mesa, La Quinta, Poway and San Diego. After ECX.
ECX Error ellipse: s-maj=1.8km s-min=1.6km az=-1.0.
ISC IV 21 04 39 24.0–.97 32.39N–.03 115.53W–.02 17–8 50 0-8
ISCJB IV 21 04 39 24.6–.36 32.43N–.02 115.50W–.03 19–6 **¶16483637**
MEX IV 21 04 39 25.1–1.0 32.57N 115.45W 8–278 3.8
NEIC IV 21 04 39 25.7 32.41N 115.53W 4 3.8,3.6L
ECX IV 21 04 39 25.7–.53 32.41N 115.53W 4 3.8L,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=38.2.
MEX Error ellipse: s-maj=235.0km s-min=225.3km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.6km s-min=1.4km az=-1.0.
ISC IV 21 04 46 09.9–.80 32.41N–.02 115.51W–.02 20–5 74 0-7
ISCJB IV 21 04 46 10.0–.32 32.42N–.02 115.46W–.02 24–3 **¶16483638**
MEX IV 21 04 46 10.5–1.1 32.59N 115.37W 14–22 3.3
NEIC IV 21 04 46 10.9 32.41N 115.52W 4 3.7,3.5L
ECX IV 21 04 46 10.9–.42 32.41N 115.52W 4 3.7L,3.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=36.0.
MEX Error ellipse: s-maj=24.4km s-min=34.1km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.2km s-min=1.2km az=-1.0.
ISC IV 21 04 52 29.9–1.2 32.32N–.03 115.55W–.03 2–12 34 0-4
NEIC IV 21 04 52 30.3 32.33N 115.53W 4 3.0L,2.8L **¶16483640**
ECX IV 21 04 52 30.3–.36 32.33N 115.53W 4–2 3.2L,3.0
MEX IV 21 04 52 31.0–1.1 32.53N 115.42W 7–971 3.7,3.0
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=789.9km s-min=792.9km az=-1.0.
ISC IV 22 05 15 55.1–1.1 32.02N–.02 115.05W–.03 19–3 50 0-5
ISCJB IV 22 05 15 55.7–.47 32.00N–.02 114.98W–.04 28–4 **¶16577863**
NEIC IV 22 05 15 57.9 31.97N 115.14W 9 3.2L,3.1L
ECX IV 22 05 15 57.9–.50 31.97N 115.14W 9 3.3L,3.1
MEX IV 22 05 15 58.3–.99 32.04N 114.98W 20–999 3.7,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.9km az=164.1.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=3.8km az=-1.0.
MEX Error ellipse: s-maj=594.2km s-min=999.9km az=-1.0.
ISC IV 22 09 46 40.9–1.4 32.51N–.05 115.48W–.04 21–2 18 0-1
ISCJB IV 22 09 46 42.1–.71 32.44N–.05 115.53W–.05 18–11 **¶601137693**
MEX IV 22 09 46 42.7–.90 32.51N 115.43W 8–999 3.6
ECX IV 22 09 46 43.3–.49 32.40N 115.55W 4 2.5L,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.2km az=34.4.
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ECX Error ellipse: s-maj=1.7km s-min=1.6km az=-1.0.
ISC IV 23 23 47 51.1–1.1 32.18N–.05 115.19W–.07 25–11 18 0-1
ECX IV 23 23 47 53.2–.53 32.12N 115.27W 8 3.2L,3.0 **¶601137710**
MEX IV 23 23 47 54.9–.80 32.22N 115.18W 16–18 3.6,3.0
ISC Event type ke.
ECX Error ellipse: s-maj=1.9km s-min=2.8km az=-1.0.
MEX Error ellipse: s-maj=4.2km s-min=12.7km az=-1.0.
ISC IV 24 11 48 07.7–1.0 32.21N–.04 115.30W–.04 15–9 23 0-1
ISCJB IV 24 11 48 08.2–.64 32.22N–.04 115.30W–.06 13–6 **¶601137720**
ECX IV 24 11 48 09.5–.58 32.21N 115.30W 6 2.7L,2.5
MEX IV 24 11 48 09.5–.41 32.30N 115.18W 12–123 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.4km az=154.9.
ECX Error ellipse: s-maj=1.0km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=95.0km s-min=131.0km az=-1.0.
ISC IV 24 18 31 34.3–1.1 32.31N–.03 115.37W–.02 15–10 40 0-2
ISCJB IV 24 18 31 35.0–.56 32.29N–.03 115.36W–.04 13–4 **¶601137722**
MEX IV 24 18 31 35.4–.97 32.50N 115.17W 27–9 3.6
ECX IV 24 18 31 36.0–.52 32.29N 115.37W 5 3.0L,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=154.2.
MEX Error ellipse: s-maj=13.1km s-min=10.5km az=-1.0.
ECX Error ellipse: s-maj=0.9km s-min=1.7km az=-1.0.

ISC IV 27 04 12 29.5–1.0 32.54N–.03 115.65W–.03 17–9 27 0-2
ISCJB IV 27 04 12 30.3–.47 32.50N–.05 115.68W–.04 9–8 **¶601137774**
ECX IV 27 04 12 31.7–.50 32.54N 115.70W 4 2.7L,2.5
MEX IV 27 04 12 32.0–1.0 32.59N 115.59W 16–17 3.4,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=3.9km az=25.4.
ECX Error ellipse: s-maj=1.1km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=20.2km s-min=7.2km az=-1.0.
ECX IV 29 18 14 54.4–.46 32.01N 115.03W 10 2.9L,2.7
NEIC IV 29 18 14 54.4 32.01N 115.03W 6 2.9L,2.8L **¶16631216**
ECX Error ellipse: s-maj=1.1km s-min=3.3km az=-1.0.
NEIC Event type se. After ECX.
ECX IV 30 08 05 22.5–.54 32.22N 115.28W 7 2.9L,2.7
NEIC IV 30 08 05 22.5 32.22N 115.28W 7 2.9L,2.8L **¶16501703**
ECX Error ellipse: s-maj=1.0km s-min=2.9km az=-1.0.
NEIC Event type se. After ECX.
ISC V 04 07 24 05.5–1.2 32.38N–.04 115.26W–.04 22–8 23 0-1
MEX V 04 07 24 06.8–.51 32.49N 115.12W 15–3 3.5 **¶602597608**
ECX V 04 07 24 07.3–.58 32.31N 115.29W 6 2.7L,2.6
ISC Event type ke.
MEX Error ellipse: s-maj=7.9km s-min=7.7km az=-1.0.
ECX Error ellipse: s-maj=1.6km s-min=2.2km az=-1.0.
ISC V 05 04 34 22.1–.79 32.36N–.03 115.30W–.03 18–3 55 0-5
ISCJB V 05 04 34 22.6–.41 32.35N–.03 115.35W–.03 12–4 **¶16501730**
ECX V 05 04 34 23.8–.48 32.34N 115.33W 5 3.1L,2.9
MEX V 05 04 34 23.7–.87 32.48N 115.18W 15–3 3.9,2.9
NEIC V 05 04 34 23.8 32.34N 115.33W 5 3.1L,2.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.7km az=37.6.
ECX Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=8.9km s-min=10.3km az=-1.0.
NEIC Event type se. After ECX.
ISC V 05 17 28 32.8–.84 32.88N–.02 116.21W–.02 16–6 53 0-2
IASPE V 05 17 28 32.8–.85 32.87N–.03 116.21W–.02 17–6 **¶601790753**
ISCJB V 05 17 28 33.5–.27 32.86N–.02 116.22W–.02 18–4
ECX V 05 17 28 34.5–.59 32.85N 116.24W 4 3.1L,2.9
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=16.0. GT5 selection from ISC bulletin. GT5 identified by Bond˜ir and McLaughlin (2009) selection criteria. Bond˜ir and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=159.7.
ECX Error ellipse: s-maj=1.3km s-min=1.3km az=-1.0.
ISC V 05 19 47 35.2–1.2 32.14N–.02 115.18W–.03 16–10 52 0-4
NEIC V 05 19 47 36.0 32.05N 115.16W 10 3.4L **¶16708957**
ISCJB V 05 19 47 36.1–.39 32.14N–.02 115.14W–.03 27–4 3.4L
ECX V 05 19 47 37.3–.90 32.09N 115.17W 7 3.7L,3.5
MEX V 05 19 47 38.4–.79 32.15N 115.16W 8–11 4.0,3.5
ISC Event type se.
NEIC Event type se. After PAS.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.8km az=170.8.
ECX Error ellipse: s-maj=2.0km s-min=3.5km az=-1.0.
MEX Error ellipse: s-maj=5.1km s-min=8.2km az=-1.0.
ISC V 08 14 44 50.6–1.5 32.25N–.08 115.2W–.10 25–14 20 0-1
ISCJB V 08 14 44 50.6–1.1 32.27N–.10 115.2W–.10 26–11 **¶602597654**
ECX V 08 14 44 52.2–.48 32.21N 115.30W 8 2.3L,2.1
MEX V 08 14 44 53.0–.46 32.27N 115.16W 15 3.3,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.2km s-min=7.3km az=136.8.
ECX Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=1.4km s-min=4.4km az=-1.0.
ISC V 09 17 58 21.2–.86 32.61N–.02 115.70W–.02 17–6 54 0-3
ISCJB V 09 17 58 21.8–.34 32.62N–.02 115.71W–.03 19–5 **¶16853437**
MEX V 09 17 58 21.8–.97 32.79N 115.60W 16–90 3.2
ECX V 09 17 58 22.7–.61 32.58N 115.72W 3 2.7L,2.5
NEIC V 09 17 58 22.8 32.58N 115.72W 3 2.7L,2.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.5km az=39.3.
MEX Error ellipse: s-maj=80.1km s-min=61.8km az=-1.0.
ECX Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0.
NEIC Event type se. After ECX.
ISC V 13 03 31 32.0–.75 32.67N–.02 115.77W–.02 16–3 91 0-7
IASPE V 13 03 31 32.1–.82 32.68N–.03 115.79W–.02 16–5 **¶16719703**
ISCJB V 13 03 31 32.3–.36 32.68N–.02 115.77W–.02 14–2
ECX V 13 03 31 33.6–.69 32.65N 115.79W 3 3.6L,3.4
MEX V 13 03 31 33.4–.93 32.91N 115.80W 17–16 3.7,3.4
NEIC V 13 03 31 33.2 32.66N 115.79W 14 3.6L,3.4
ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=160.0. GT5 selection from ISC bulletin. GT5 identified by Bond˜ir and McLaughlin (2009) selection criteria. Bond˜ir and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.6km az=25.7.
ECX Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=14.8km s-min=5.0km az=-1.0.
NEIC Event type fe. Felt [III] at El Centro. Also felt at Calexico, Coachella and Imperial. Felt at Mexicali, Baja California. After PAS.
ISC V 13 04 09 06.0–.92 32.64N–.03 115.81W–.02 10–7 43 0-3
IASPE V 13 04 09 05.5–.00 32.67N–.03 115.82W–.02 12–7 **¶602597708**
ECX V 13 04 09 06.5–.65 32.66N 115.79W 4 2.9L,2.7
NEIC V 13 04 09 06.2 32.65N 115.80W 4 2.7L,2.7
MEX V 13 04 09 06.8–.67 32.81N 115.75W 17–999 3.4,2.7
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=4.9km s-min=3.2km az=175.7. GT5 selection from ISC bulletin. GT5 identified by Bond˜ir and McLaughlin (2009) selection criteria. Bond˜ir and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ECX Error ellipse: s-maj=1.2km s-min=1.1km az=-1.0.
NEIC Event type se. After PAS.
MEX Error ellipse: s-maj=8.3km s-min=3.9km az=-1.0.
ISC V 18 07 19 56.5–1.3 32.15N–.04 115.11W–.08 29–11 17 0-1
ISCJB V 18 07 19 57.2–1.4 32.15N–.05 115.1W–.10 25–10 **¶602597785**
MEX V 18 07 19 58.8–.53 32.19N 114.97W 18–121 3.5
ECX V 18 07 19 59.2–.61 32.13N 115.23W 8 2.6L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=5.5km az=161.3.
MEX Error ellipse: s-maj=5.8km s-min=9.1km az=-1.0.
ECX Error ellipse: s-maj=1.2km s-min=3.2km az=-1.0.
ISC V 18 08 03 40.1–.93 32.30N–.05 115.41W–.05 12–11 15 0-1
ISCJB V 18 08 03 40.5–.71 32.3N–.10 115.4W–.10 14–23 **¶602597786**
ECX V 18 08 03 41.5–.63 32.32N 115.39W 4 2.4L,2.2
MEX V 18 08 03 42.5–.63 32.40N 115.31W 15–151 3.1,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.1km s-min=5.9km az=42.2.
ECX Error ellipse: s-maj=1.6km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=120.0km s-min=165.8km az=-1.0.
ISC V 19 02 34 28.3–1.2 32.15N–.04 115.14W–.07 30–11 18 0-1
ISCJB V 19 02 34 29.1–.90 32.13N–.03 115.15W–.09 24–8 **¶602597792**
MEX V 19 02 34 30.9–.50 32.16N 115.08W 20–147 3.5
ECX V 19 02 34 30.7–.41 32.11N 115.21W 10 2.7L,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=5.1km az=168.3.
MEX Error ellipse: s-maj=82.2km s-min=153.3km az=-1.0.
ECX Error ellipse: s-maj=0.8km s-min=2.0km az=-1.0.
ISC V 20 06 04 53.4–1.0 32.26N–.04 115.25W–.05 24–8 32 0-1
ISCJB V 20 06 04 53.8–.56 32.26N–.03 115.27W–.05 22–6 **¶602597807**
ECX V 20 06 04 55.1–.73 32.23N 115.29W 6 2.7L,2.5
MEX V 20 06 04 55.3–.40 32.29N 115.14W 20–11 3.8,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=158.1.
ECX Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.

MEX Error ellipse: s-maj=6.0km s-min=6.5km az=-1.0.
ISC V 20 14 44 38.4–.99 32.14N–.03 115.13W–.04 28–8 30 0-3
ISCJB V 20 14 44 38.5–.52 32.15N–.03 115.13W–.05 28–4 **¶601138074**
ECX V 20 14 44 40.0–.29 32.12N 115.20W 7 3.6L,3.4
MEX V 20 14 44 40.1–.50 32.21N 115.03W 35–7 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.7km az=159.2.
ECX Error ellipse: s-maj=0.6km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=3.9km s-min=6.0km az=-1.0.
ISC V 21 18 04 14.3–1.2 32.37N–.05 115.27W–.05 24–7 20 0-1
ISCJB V 21 18 04 14.7–.65 32.36N–.05 115.27W–.06 23–6 **¶602597816**
ECX V 21 18 04 15.8–.58 32.32N 115.31W 4 2.7L,2.5
MEX V 21 18 04 15.0–.93 32.51N 115.07W 21–10 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.7km az=38.4.
ECX Error ellipse: s-maj=1.5km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=12.2km s-min=13.0km az=-1.0.
ISC V 23 06 55 37.5–.88 32.60N–.04 115.75W–.03 16–7 26 0-2
ISCJB V 23 06 55 38.0–.43 32.58N–.05 115.76W–.03 12–5 **¶602597832**
ECX V 23 06 55 39.0–.55 32.61N 115.77W 3 2.8L,2.6
MEX V 23 06 55 39.0–.78 32.68N 115.67W 16–999 3.6,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=3.9km az=19.1.
ECX Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=8.2km s-min=5.2km az=-1.0.
ISC V 25 01 05 29.4–1.1 32.16N–.02 115.22W–.02 12–10 80 0-11
ISCJB V 25 01 05 29.6–.49 32.15N–.02 115.13W–.02 12–4 **¶16882463**
NEIC V 25 01 05 31.9 32.15N 115.22W 8 3.6L,3.5L
ECX V 25 01 05 31.8–.57 32.14N 115.21W 8 3.8L,3.6
MEX V 25 01 05 33.1–.69 32.19N 115.17W 15–9 3.8,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.9km az=40.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.1km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=6.2km s-min=9.4km az=-1.0.
ISC V 25 08 48 48.3–1.0 32.24N–.04 115.27W–.06 24–9 23 0-1
ISCJB V 25 08 48 48.8–.67 32.21N–.04 115.31W–.06 13–7 **¶602597850**
ECX V 25 08 48 50.1–.47 32.22N 115.32W 5 3.0L,2.8
MEX V 25 08 48 50.8–.50 32.28N 115.20W 15–48 3.6,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.0km az=148.3.
ECX Error ellipse: s-maj=0.9km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=35.4km s-min=54.3km az=-1.0.
ISC V 27 18 28 42.0–.99 32.13N–.03 115.18W–.03 16–10 25 0-3
ISCJB V 27 18 28 41.8–.56 32.17N–.03 115.11W–.04 24–5 **¶602607451**
ECX V 27 18 28 43.3–.49 32.14N 115.17W 8 2.8L,2.6
NEIC V 27 18 28 43.3 32.14N 115.17W 8 2.8L,2.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=1.9.
ECX Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0.
NEIC Event type se. After ECX.
ISC V 27 18 37 39.3–.98 32.14N–.02 115.20W–.02 6–6 134 0-28
ISCJB V 27 18 37 38.2–.40 32.18N–.02 115.14W–.02 9–3 **¶16855344**
ECX V 27 18 37 40.9–.92 32.14N 115.20W 7 4.0L,3.8
MEX V 27 18 37 41.6–.70 32.19N 115.12W 10–76 4.3,3.8
NEIC V 27 18 37 41.0 32.15N 115.22W 7 4.0L,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.6km az=158.6.
ECX Error ellipse: s-maj=1.5km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=41.8km s-min=80.3km az=-1.0.
NEIC Event type se. After ECX.
ISC V 27 18 43 13.8–1.0 32.12N–.02 115.16W–.03 13–9 37 0-5
ISCJB V 27 18 43 13.4–.72 32.15N–.02 115.11W–.03 13–5 **¶602607452**
NEIC V 27 18 43 15.3 32.13N 115.18W 8 2.9L,2.7L
ECX V 27 18 43 15.3–.58 32.13N 115.18W 8 2.9L,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.0km az=22.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=2.3km az=-1.0.
ISC V 27 19 13 59.5–1.0 32.14N–.02 115.18W–.02 18–5 102 0-16
ISCJB V 27 19 13 59.5–.33 32.15N–.02 115.17W–.02 25–3 **¶16855341**
ECX V 27 19 14 00.7–.67 32.13N 115.18W 6 3.9L,3.7
NEIC V 27 19 14 00.8 32.14N 115.21W 6 3.9L,3.6L
MEX V 27 19 14 01.5–.69 32.19N 115.11W 12–86 4.3,3.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=3.0km az=23.9.
ECX Error ellipse: s-maj=1.0km s-min=2.5km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=52.7km s-min=94.3km az=-1.0.
ISC V 27 19 18 56.5–.98 32.14N–.02 115.25W–.03 16–7 39 0-5
ISCJB V 27 19 18 56.3–.41 32.19N–.02 115.18W–.03 24–4 **¶602597870**
ECX V 27 19 18 58.1–.60 32.14N 115.25W 6 3.1L,2.9
NEIC V 27 19 18 58.1 32.14N 115.25W 6 3.1L,3.1L
MEX V 27 19 18 58.9–.36 32.22N 115.17W 10–39 3.8,3.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.8km az=35.2.
ECX Error ellipse: s-maj=1.0km s-min=2.7km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=20.1km s-min=38.2km az=-1.0.
ISC V 30 14 32 36.3–.96 32.19N–.02 115.27W–.02 17–8 56 0-6
ISCJB V 30 14 32 36.8–.44 32.19N–.02 115.19W–.03 16–5 **¶602597887**
NEIC V 30 14 32 38.7 32.18N 115.29W 3 3.0L,2.8L
ECX V 30 14 32 38.7–.63 32.18N 115.29W 6 2.8L,2.6
MEX V 30 14 32 39.2–.51 32.24N 115.18W 14–76 3.9,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.6km az=174.9.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.2km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=47.2km s-min=76.0km az=-1.0.
ISC V 31 01 42 36.3–.98 32.41N–.06 115.30W–.07 18–5 18 0-1
MEX V 31 01 42 37.6–.98 32.50N 115.16W 12–3 3.6 **¶602597894**
ECX V 31 01 42 37.9–.47 32.34N 115.31W 5 2.7L,2.5
ISC Event type ke.
MEX Error ellipse: s-maj=7.9km s-min=11.5km az=-1.0.
ECX Error ellipse: s-maj=1.2km s-min=2.2km az=-1.0.
ISC VI 04 07 04 42.5–1.1 32.10N–.02 115.18W–.02 12–10 65 0-6
ISCJB VI 04 07 04 42.9–.52 32.07N–.02 115.15W–.03 11–4 **¶16593315**
ECX VI 04 07 04 44.8–.91 32.08N 115.17W 8 3.2L,3.0
NEIC VI 04 07 04 45.0 32.09N 115.21W 8 3.2L,2.9L
MEX VI 04 07 04 45.0–.57 32.15N 115.03W 31–8 3.9,2.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=174.7.
ECX Error ellipse: s-maj=1.8km s-min=3.8km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=3.4km s-min=9.5km az=-1.0.
ISC VI 04 08 38 09.3–1.1 32.41N–.03 115.52W–.03 14–9 43 0-3
ISCJB VI 04 08 38 09.7–.52 32.42N–.02 115.53W–.03 10–4 **¶601790941**
ECX VI 04 08 38 11.1–.63 32.42N 115.53W 5 2.9L,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=4.0km az=145.6.
ECX Error ellipse: s-maj=1.4km s-min=2.2km az=-1.0.
ISC VI 08 16 56 12.3–1.2 32.07N–.02 115.07W–.03 13–10 44 0-4
NEIC VI 08 16 56 14.6 32.06N 115.08W 8 3.3L,2.8L **¶602597978**
ECX VI 08 16 56 14.7–1.0 32.05N 115.07W 8 3.3L,3.0
MEX VI 08 16 56 16.5–.48 32.05N 115.07W 10 3.6,3.0
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=2.4km s-min=3.8km az=-1.0.
MEX Error ellipse: s-maj=1.1km s-min=3.9km az=-1.0.
ISC VI 09 06 25 20.5–.92 32.81N–.02 116.13W–.02 18–2 44 0-2
ISCJB VI 09 06 25 21.0–.33 32.81N–.02 116.13W–.02 14–3 **¶16856717**
ECX VI 09 06 25 22.2–.66 32.79N 116.15W 4 2.8L,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.5km az=15.9.
ECX Error ellipse: s-maj=1.9km s-min=1.6km az=-1.0.
ISC VI 09 15 22 12.0–.80 32.67N–.02 115.75W–.02 9–5 4.0b,3.0s 212 0-119
ISCJB VI 09 15 22 10.9–.27 32.67N–.01 115.71W–.01 9–2 4.2b,2.9s **¶16581056**
MEX VI 09 15 22 11.0–.49 33.00N 115.71W 16–35 4.3,2.9s
IDC VI 09 15 22 11.4–1.4 32.72N 115.71W 0 3.9,3.9L
IASPE VI 09 15 22 11.2–.92 32.68N–.02 115.73W–.02 18–4 4.0b,3.0s
NEIC VI 09 15 22 12.6 32.64N 115.74W 3 4.6L,4.4L
ECX VI 09 15 22 12.6–.68 32.64N 115.74W 3 4.6L,4.4L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=2.3.
MEX Error ellipse: s-maj=25.5km s-min=12.3km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=8.7km az=40.0.
IASPE Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=169.0. GT5 selection from ISC bulletin. GT5 identified by Bond¨¡r and McLaughlin (2009) selection criteria. Bond¨¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
NEIC Event type fe. Felt [II] at Mexicali. Also felt at Ensenada and Tijuana. Felt [III] at Brawley, El Centro and Imperial; [II] at Aliso Viejo, Borrego Springs, Calexico, Coronado, El Cajon, La Jolla and San Diego, California. Felt in Imperial, Orange, Riverside and San Diego Counties. After ECX.
ECX Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0.
ISC VI 10 14 34 14.8–1.2 32.44N–.04 115.48W–.03 16–11 31 0-1
ISCJB VI 10 14 34 15.8–.53 32.39N–.06 115.52W–.04 5–12 **¶602598015**
ECX VI 10 14 34 17.6–.54 32.40N 115.53W 5 3.0L,2.8
MEX VI 10 14 34 17.0–.87 32.50N 115.41W 11–92 3.6,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=3.8km az=25.5.
ECX Error ellipse: s-maj=0.9km s-min=1.6km az=-1.0.
MEX Error ellipse: s-maj=72.9km s-min=84.0km az=-1.0.
ISC VI 10 17 28 03.2–.91 32.27N–.02 115.35W–.02 15–7 78 0-5
ISCJB VI 10 17 28 04.0–.31 32.28N–.02 115.31W–.02 19–3 **¶16884576**
NEIC VI 10 17 28 05.1 32.27N 115.34W 4 3.3L,3.1L
ECX VI 10 17 28 05.1–.50 32.27N 115.34W 4 3.3L,3.0
MEX VI 10 17 28 05.5–.40 32.38N 115.16W 21–3 3.6,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=3.0km az=179.9.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.8km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=3.4km s-min=6.2km az=-1.0.
ISC VI 10 23 27 31.3–.80 32.64N–.02 115.71W–.02 17–5 66 0-4
ISCJB VI 10 23 27 31.9–.30 32.67N–.02 115.72W–.02 18–4 **¶16884577**
ECX VI 10 23 27 32.9–.59 32.63N 115.72W 3 3.3L,3.0
MEX VI 10 23 27 32.7–1.5 32.81N 115.67W 20–112 3.6,3.0
NEIC VI 10 23 27 33.0 32.63N 115.73W 3 3.3L,3.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.3km az=8.4.
ECX Error ellipse: s-maj=1.0km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=99.4km s-min=69.8km az=-1.0.
NEIC Event type fe. Felt at El Centro, California. After ECX.
ISC VI 11 07 25 38.3–.97 32.32N–.06 115.34W–.05 13 16 0-1
ISCJB VI 11 07 25 38.6–.63 32.34N–.04 115.33W–.04 13 **¶602598025**
MEX VI 11 07 25 39.8–1.0 32.46N 115.17W 16–5 3.8
ECX VI 11 07 25 40.1–.43 32.32N 115.37W 5 2.6L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.3km az=21.1.
MEX Error ellipse: s-maj=15.0km s-min=13.8km az=-1.0.
ECX Error ellipse: s-maj=1.7km s-min=2.7km az=-1.0.
ISC VI 11 09 06 25.5–1.3 32.4N–.10 115.3W–.10 24–9 15 0-1
ISCJB VI 11 09 06 25.6–.90 32.4N–.10 115.32W–.07 23–7 **¶602598027**
MEX VI 11 09 06 26.0–1.1 32.52N 115.14W 26–13 3.7
ECX VI 11 09 06 27.0–.51 32.31N 115.38W 6 2.1L,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=8.3km az=16.1.
MEX Error ellipse: s-maj=31.5km s-min=34.3km az=-1.0.
ECX Error ellipse: s-maj=3.5km s-min=1.9km az=-1.0.
MEX VI 11 12 53 57.2–.59 32.67N 115.70W 20–58 3.5
¶602598031
MEX Error ellipse: s-maj=52.0km s-min=36.7km az=-1.0.
ISC VI 11 17 19 43.0–1.2 32.09N–.03 115.24W–.03 9–9 76 0-6
ISCJB VI 11 17 19 43.4–.60 32.11N–.02 115.17W–.03 13–4 **¶16912384**
NEIC VI 11 17 19 45.3 32.32N 115.22W 8 3.4L,3.3L
ECX VI 11 17 19 45.0–1.0 32.09N 115.20W 8 3.4L,3.2
MEX VI 11 17 19 46.3–.60 32.21N 115.11W 19–30 4.0,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.6km az=135.4.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=2.6km s-min=4.3km az=-1.0.
MEX Error ellipse: s-maj=5.4km s-min=10.4km az=-1.0.
ISC VI 13 21 19 29.7–.90 32.30N–.04 115.39W–.04 16–9 23 0-1
ISCJB VI 13 21 19 30.1–.52 32.31N–.03 115.38W–.05 14–6 **¶602598055**
ECX VI 13 21 19 31.2–.58 32.30N 115.38W 8 2.6L,2.4
MEX VI 13 21 19 31.1–.55 32.45N 115.25W 21–12 3.9,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.1km az=152.5.
ECX Error ellipse: s-maj=1.2km s-min=2.2km az=-1.0.
MEX Error ellipse: s-maj=11.7km s-min=14.1km az=-1.0.
ISC VI 14 06 42 14.4–1.5 32.2N–.10 115.4W–.20 14–29 14 0-1
ECX VI 14 06 42 16.7–.47 32.21N 115.31W 6 2.0L,1.8 **¶602598060**
MEX VI 14 06 42 16.5–.48 32.45N 115.42W 4–63 3.6,1.8
ISC Event type ke.
ECX Error ellipse: s-maj=1.2km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=144.3km s-min=38.9km az=-1.0.
MEX VI 14 15 09 36.6–.36 32.32N 115.16W 10–999 3.7
¶602598065
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC VI 16 06 14 23.6–1.3 32.15N–.02 115.12W–.03 11–10 59 0-3
NEIC VI 16 06 14 26.7 32.10N 115.16W 8 3.1L,2.7L **¶16912402**
ECX VI 16 06 14 26.5–.89 32.08N 115.14W 8 3.1L,2.9
MEX VI 16 06 14 27.4–1.0 32.18N 115.09W 11–270 4.0,2.9
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.8km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=157.2km s-min=281.7km az=-1.0.
ISC VI 16 16 58 47.4–1.5 32.06N–.05 115.19W–.06 11–11 22 0-1
ISCJB VI 16 16 58 49.1–.77 32.14N–.04 115.20W–.06 21–7 **¶602598077**
ECX VI 16 16 58 49.7–.93 32.11N 115.17W 20–8 2.8L,2.5
MEX VI 16 16 58 52.7–.62 32.25N 115.27W 6–511 3.9,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=166.8.
ECX Error ellipse: s-maj=3.4km s-min=7.9km az=-1.0.
MEX Error ellipse: s-maj=81.9km s-min=487.7km az=-1.0.
ISC VI 17 00 32 04.9–.00 32.29N–.04 115.32W–.04 23–8 30 0-1
ISCJB VI 17 00 32 05.4–.59 32.27N–.03 115.34W–.04 18–9 **¶602598079**
ECX VI 17 00 32 06.4–.64 32.25N 115.34W 6 2.6L,2.3
MEX VI 17 00 32 06.4–.70 32.38N 115.16W 25–8 3.7,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=151.9.
ECX Error ellipse: s-maj=1.2km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=11.1km s-min=10.5km az=-1.0.
MEX VI 17 09 47 12.4–.52 32.35N 115.08W 26–14 3.6
¶602598086
MEX Error ellipse: s-maj=10.1km s-min=25.8km az=-1.0.
ISC VI 17 14 58 10.6–1.1 32.21N–.05 115.22W–.07 26–10 19 0-1
ISCJB VI 17 14 58 11.5–.80 32.20N–.03 115.27W–.07 18–12 **¶602598092**
ECX VI 17 14 58 12.6–.55 32.18N 115.27W 7 2.8L,2.5
MEX VI 17 14 58 13.5–.48 32.24N 115.19W 16–381 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.5km az=165.6.

ECX Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=251.7km s-min=425.9km az=-1.0.
ISC VI 17 17 38 49.8–.83 32.98N–.02 116.27W–.02 15–6 109 0-8
ISCJB VI 17 17 38 50.3–.23 32.98N–.02 116.30W–.02 21–3 **¶16915488**
ECX VI 17 17 38 51.5–.60 32.98N 116.36W 7 3.7L,3.6
MEX VI 17 17 38 51.0–.76 33.00N 116.35W 8 3.5,3.6
NEIC VI 17 17 38 51.0 33.00N 116.35W 8 3.6L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.3km az=137.0.
ECX Error ellipse: s-maj=2.1km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=27.1km s-min=21.4km az=-1.0.
NEIC Event type fe. Felt [III] at Descanso and [II] at Alpine, El Cajon, Lakeside, La Mesa, Pine Valley, Poway, Ramona and San Diego. Felt widely in San Diego County. After PAS.
ISC VI 18 02 21 29.7–1.1 32.58N–.03 115.62W–.02 6–10 53 0-7
ISCJB VI 18 02 21 30.5–.47 32.54N–.03 115.63W–.02 13–3 **¶16713638**
NEIC VI 18 02 21 31.6 32.56N 115.67W 14 3.0L
MEX VI 18 02 21 31.7–.82 32.70N 115.56W 17–97 3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=15.2.
NEIC Event type fe. Felt at El Centro, California. After PAS.
MEX Error ellipse: s-maj=90.1km s-min=77.7km az=-1.0.
ISC VI 18 09 23 53.5–1.0 32.22N–.07 115.3W–.10 14–14 14 0-2
ISCJB VI 18 09 23 53.6–.81 32.24N–.03 115.25W–.06 15–6 **¶602598100**
ECX VI 18 09 23 54.5–.62 32.22N 115.26W 7 2.3L,2.0
MEX VI 18 09 23 54.6–.35 32.32N 115.10W 25–4 3.2,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.0km az=166.1.
ECX Error ellipse: s-maj=1.2km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=3.5km s-min=5.0km az=-1.0.
ISC VI 18 17 25 38.3–.90 32.32N–.09 115.39W–.09 16–13 18 0-1
ISCJB VI 18 17 25 38.5–.80 32.35N–.05 115.36W–.06 18–9 **¶602598106**
ECX VI 18 17 25 39.8–.57 32.33N 115.39W 4 2.4L,2.3
MEX VI 18 17 25 40.3–.77 32.40N 115.26W 16–19 3.6,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.8km az=44.9.
ECX Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=20.9km s-min=30.0km az=-1.0.
ISC VI 19 03 16 33.8–1.1 32.28N–.04 115.33W–.04 18–3 20 0-1
ISCJB VI 19 03 16 33.6–.77 32.31N–.05 115.28W–.06 22–6 **¶602598111**
MEX VI 19 03 16 34.7–.76 32.42N 115.12W 24–6 3.4
ECX VI 19 03 16 35.1–.44 32.28N 115.35W 5 2.4L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=8.0km az=163.8.
MEX Error ellipse: s-maj=10.9km s-min=13.2km az=-1.0.
ECX Error ellipse: s-maj=1.4km s-min=2.1km az=-1.0.
ISC VI 19 08 59 31.0–1.3 32.28N–.07 115.17W–.08 29–9 15 0-1
ISCJB VI 19 08 59 32.1–.90 32.24N–.04 115.27W–.07 21–11 **¶602598113**
ECX VI 19 08 59 33.6–.63 32.21N 115.28W 5 2.3L,2.0
MEX VI 19 08 59 34.2–.68 32.27N 115.19W 20 3.2,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.9km az=151.9.
ECX Error ellipse: s-maj=1.5km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=2.9km s-min=4.2km az=-1.0.
ISC VI 19 16 10 06.1–.93 32.73N–.02 115.42W–.02 21–4 54 0-2
MEX VI 19 16 10 06.3–.35 32.93N 115.27W 18 3.6 **¶601218517**
ISCJB VI 19 16 10 07.2–.32 32.75N–.02 115.44W–.02 17–4 3.6
ECX VI 19 16 10 08.1–.77 32.77N 115.46W 12 2.6L,2.4
ISC Event type ke.
MEX Error ellipse: s-maj=7.0km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=44.5.
ECX Error ellipse: s-maj=2.4km s-min=2.3km az=-1.0.
ISC VI 20 22 48 51.9–.95 32.26N–.04 115.36W–.05 16–9 18 0-1
ISCJB VI 20 22 48 52.4–.60 32.28N–.08 115.4W–.10 14–15 **¶602598123**
ECX VI 20 22 48 53.7–.47 32.28N 115.37W 5 2.4L,2.2
MEX VI 20 22 48 54.1–.67 32.36N 115.26W 20–19 3.8,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=6.4km az=142.0.
ECX Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
MEX Error ellipse: s-maj=7.7km s-min=8.8km az=-1.0.
ISC VI 21 00 19 14.8–1.1 32.66N–.06 115.77W–.04 13–9 22 0-2
ISCJB VI 21 00 19 15.5–.61 32.66N–.06 115.77W–.05 10–6 **¶602598125**
ECX VI 21 00 19 16.3–.43 32.68N 115.76W 3 2.5L,2.3
MEX VI 21 00 19 21.1–.31 32.04N 115.97W 20 3.6,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.5km az=169.4.
ECX Error ellipse: s-maj=1.3km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=8.4km s-min=9.2km az=-1.0.
MEX VI 21 04 31 25.1–.46 32.32N 115.20W 14–67 3.6
¶602598128
MEX Error ellipse: s-maj=55.5km s-min=78.1km az=-1.0.
ISC VI 21 18 05 43.0–1.8 32.22N–.09 115.1W–.10 30–12 17 0-1
ISCJB VI 21 18 05 43.6–1.7 32.22N–.07 115.1W–.10 33–45 **¶602598131**
ECX VI 21 18 05 45.2–.40 32.19N 115.23W 8 2.4L,2.2
MEX VI 21 18 05 45.6–.35 32.29N 115.02W 33–4 3.7,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=6.1km az=142.9.
ECX Error ellipse: s-maj=1.0km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=3.6km s-min=5.8km az=-1.0.
ISC VI 22 02 00 25.0–1.1 32.04N–.02 116.68W–.03 5–10 66 0-8
NEIC VI 22 02 00 27.2 32.05N 116.67W 8 3.1L,2.9L **¶16918968**
ECX VI 22 02 00 27.2–.51 32.05N 116.67W 8 3.1L,2.9
MEX VI 22 02 00 28.4–.48 32.14N 116.81W 21–16 3.7,2.9
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.7km s-min=1.9km az=-1.0. Moment Tensor Solution. NP1: ϕ_s206.57000°,δ75.52000°,λ-26.57000°.
MEX Error ellipse: s-maj=4.1km s-min=8.7km az=-1.0.
ISC VI 24 12 14 05.7–1.0 32.63N–.04 116.02W–.03 8–6 28 0-2
MEX VI 24 12 13 26.7–.59 32.41N 112.51W 15–999 3.5 **¶602770498**
ISCJB VI 24 12 14 05.5–.51 32.67N–.04 116.04W–.04 9–3 3.5
ECX VI 24 12 14 06.2–.56 32.65N 116.01W 3 2.2L,1.9
ISC Event type ke.
MEX Error ellipse: s-maj=839.3km s-min=999.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.4km az=151.4.
ECX Error ellipse: s-maj=1.4km s-min=1.3km az=-1.0.
ISC VI 25 02 49 52.5–1.0 32.23N–.04 115.32W–.03 18–4 35 0-4
ISCJB VI 25 02 49 52.6–.54 32.26N–.04 115.25W–.05 21–5 **¶602598162**
NEIC VI 25 02 49 54.3 32.22N 115.30W 6 3.1,2.9L
ECX VI 25 02 49 54.3–.43 32.22N 115.31W 6 3.1L,2.9
MEX VI 25 02 49 55.2–.43 32.31N 115.18W 19–11 3.1,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.5km az=141.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=1.9km az=-1.0.
MEX Error ellipse: s-maj=6.0km s-min=7.8km az=-1.0.
ISC VI 26 16 07 55.9–.92 32.29N–.02 115.34W–.02 18–2 74 0-8
ISCJB VI 26 16 07 56.2–.35 32.32N–.02 115.31W–.02 21–3 **¶16947387**
NEIC VI 26 16 07 58.0 32.31N 115.34W 5 3.2L,3.2L
ECX VI 26 16 07 58.0–.47 32.31N 115.34W 5 3.2L,3.0
MEX VI 26 16 07 58.7–1.1 32.39N 115.24W 14–40 3.8,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.4km az=176.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.
MEX Error ellipse: s-maj=45.0km s-min=57.3km az=-1.0.
ISC VI 26 19 04 59.1–3.0 32.4N–.10 115.1W–.10 15–7 16 0-1
MEX VI 26 19 05 01.1–1.6 32.43N 115.09W 6 4.0 **¶602598177**
ECX VI 26 19 05 01.5–.49 32.42N 115.19W 5 2.6L,2.4
ISC Event type ke.
MEX Error ellipse: s-maj=41.2km s-min=20.3km az=-1.0.
ECX Error ellipse: s-maj=3.1km s-min=3.7km az=-1.0.

ISC VI 28 11 18 06.7–1.3 32.15N–.02 115.04W–.03 7–11 59 0-3
NEIC VI 28 11 18 10.9 32.11N 115.17W 8 2.9L,2.5L **¶16947393**
ECX VI 28 11 18 10.9–.50 32.11N 115.17W 8 2.9L,2.7
MEX VI 28 11 18 11.5–.63 32.17N 115.04W 20–139 3.9,2.7
ISC Event type se.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=79.8km s-min=151.1km az=-1.0.

(46) Western Arizona-Sonora border region.

MEX II 26 01 49 46.0–.45 32.50N 114.96W 22–7 3.5
¶601137119
MEX Error ellipse: s-maj=5.0km s-min=6.6km az=-1.0.
MEX III 18 04 02 10.2–.78 32.58N 114.93W 15–18 3.7
¶601137289
MEX Error ellipse: s-maj=13.0km s-min=18.6km az=-1.0.
MEX IV 09 22 07 14.4–.40 32.04N 114.82W 10 3.5
¶602596047
MEX Error ellipse: s-maj=1.6km s-min=6.2km az=-1.0.

SEISMIC REGION 4.
Lower California and Gulf of California.

(47) Off west coast of Baja California.

MEX I 26 03 58 23.2–.46 22.88N 109.68W 15 3.6
¶601136876
MEX Error ellipse: s-maj=18.4km s-min=43.2km az=-1.0.
ISC I 29 17 09 50.7–3.4 31.91N–.06 117.4W–.20 9–16 18 1-2
ECX I 29 17 09 53.6–.41 31.91N 117.31W 4 2.9L,2.8 **¶601136902**
MEX I 29 17 09 54.2–1.0 32.13N 117.52W 20–21 3.8,2.8
ISC Event type ke.
ECX Error ellipse: s-maj=1.7km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=11.3km s-min=11.2km az=-1.0.

(48) Baja California.

ISC I 07 21 17 22.8–1.0 31.26N–.05 115.68W–.04 11–11 20 0-1
ISCJB I 07 21 17 23.0–.60 31.24N–.05 115.65W–.05 16–9 **¶601136741**
ECX I 07 21 17 23.7–.51 31.24N 115.66W 5 4.1L,4.0
MEX I 07 21 17 24.6–.37 31.12N 115.71W 7–15 3.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.4km az=29.0.
ECX Error ellipse: s-maj=1.1km s-min=1.3km az=-1.0. Moment Tensor Solution. NP1: ϕ_s123.23000°,δ75.52000°,λ-26.57000°.
MEX Error ellipse: s-maj=18.6km s-min=9.0km az=-1.0.
ISC I 07 21 19 20.5–.94 31.26N–.05 115.67W–.04 14–11 21 0-2
ISCJB I 07 21 19 20.8–.72 31.3N–.10 115.64W–.05 14–17 **¶601136742**
ECX I 07 21 19 21.7–.58 31.25N 115.65W 5 4.1L,4.0
MEX I 07 21 19 22.8–.53 31.14N 115.65W 15–18 3.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=6.5km az=2.5.
ECX Error ellipse: s-maj=1.2km s-min=1.4km az=-1.0. Moment Tensor Solution. NP1:ϕ_s30.00000°,δ90.00000°,λ0.00000°.
MEX Error ellipse: s-maj=34.7km s-min=24.3km az=-1.0.
ECX I 07 21 19 46.7–.35 31.25N 115.64W 5 3.9L,3.8
¶601706900
ECX Error ellipse: s-maj=0.9km s-min=1.3km az=-1.0. Moment Tensor Solution. NP1: ϕ_s357.86000°,δ60.00000°,λ-90.00000°.
ISC I 11 04 29 21.6–.95 31.26N–.05 115.66W–.04 12–11 23 0-2
ISCJB I 11 04 29 21.6–.51 31.27N–.04 115.66W–.04 7–7 **¶601136770**
ECX I 11 04 29 22.6–.57 31.24N 115.66W 5 3.6L,3.4
MEX I 11 04 29 23.2–.27 31.10N 115.73W 5 3.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.9km az=42.1.
ECX Error ellipse: s-maj=1.9km s-min=2.2km az=-1.0. Moment Tensor Solution. NP1:ϕ_s30.00000°,δ90.00000°,λ0.00000°.
MEX Error ellipse: s-maj=7.4km s-min=5.4km az=-1.0.
ISC I 13 01 17 54.0–.94 31.25N–.04 115.65W–.03 10–9 49 0-7
ISCJB I 13 01 17 53.3–.50 31.27N–.03 115.64W–.03 9–5 **¶16022417**
ECX I 13 01 17 54.1–.52 31.24N 115.66W 5 3.8L,3.6
NEIC I 13 01 17 54.1 31.24N 115.65W 5 3.8L,3.8L
MEX I 13 01 17 55.1–.32 31.14N 115.72W 5 4.0,3.8L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=29.1.
ECX Error ellipse: s-maj=1.3km s-min=1.2km az=-1.0. Moment Tensor Solution. NP1:ϕ_s30.00000°,δ90.00000°,λ0.00000°.
NEIC Event type fe. Felt at Vicente Guerrero. After ECX.
MEX Error ellipse: s-maj=8.5km s-min=7.9km az=-1.0.
ISC I 21 08 59 52.4–.92 31.24N–.06 115.63W–.04 14–13 18 0-1
ISCJB I 21 08 59 52.4–.54 31.27N–.05 115.63W–.04 8–9 **¶601136826**
ECX I 21 08 59 53.3–.34 31.23N 115.63W 4 2.7L,2.5
MEX I 21 08 59 54.2–.56 30.96N 115.30W 20–49 3.5,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.0km az=18.6.
ECX Error ellipse: s-maj=0.9km s-min=0.9km az=-1.0.
MEX Error ellipse: s-maj=11.6km s-min=35.4km az=-1.0.
ISC I 22 07 23 17.0–1.1 31.19N–.09 115.55W–.05 25–14 24 0-2
ISCJB I 22 07 23 17.6–.66 31.23N–.07 115.56W–.05 23–7 **¶601136835**
MEX I 22 07 23 17.9–.64 31.06N 115.66W 29–19 3.8
ECX I 22 07 23 17.8–.61 31.24N 115.65W 5 3.1L,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.8km az=0.6.
MEX Error ellipse: s-maj=10.9km s-min=20.2km az=-1.0.
ECX Error ellipse: s-maj=1.4km s-min=2.6km az=-1.0.
ISC I 23 03 15 07.5–.98 31.22N–.05 115.72W–.03 10–10 72 0-10
ECX I 23 03 15 08.2–.54 31.24N 115.67W 5 3.9L,3.7 **¶16328465**
NEIC I 23 03 15 08.2 31.24N 115.67W 5 4.1,3.9L
MEX I 23 03 15 09.3–.51 31.17N 115.66W 11–15 4.1,3.9L
ISC Event type se.
ECX Error ellipse: s-maj=1.7km s-min=3.0km az=-1.0. Moment Tensor Solution. NP1: ϕ_s120.00000°,δ90.00000°,λ0.00000°.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=9.4km s-min=7.6km az=-1.0.
ISC I 23 05 30 01.3–.74 31.26N–.04 115.64W–.03 9–5 3.9b,3.6s 202 0-102
NEIC I 23 05 29 59.8 31.22N 115.70W 16 4.5L,4.4 **¶15959235**
ECX I 23 05 29 59.8–.48 31.22N 115.70W 4 4.5L,4.3
BJI I 23 05 29 59.7 31.25N 115.75W 17 4.8b,4.3
MEX I 23 05 30 00.9–.49 31.11N 115.68W 15–7 4.4,4.3
IDC I 23 05 30 02.1–1.7 31.55N 115.37W 0 4.0,3.9
ISC Event type fe.
NEIC Event type fe. Felt [III] at Vicente Guerrero and [II] at Tijuana. Also felt at Ensenada and San Felipe and at San Luis Rio Colorado, Sonora. Felt at Yuma, Arizona and at Chula Vista, San Diego and San Ysidro, California. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=2.1km az=-1.0. Moment Tensor Solution. NP1:ϕ_s30.00000°,δ90.00000°,λ0.00000°.
MEX Error ellipse: s-maj=8.3km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=9.9km az=45.0.
ISC I 23 05 45 14.3–1.1 31.29N–.07 115.57W–.06 12–16 14 0-1
ECX I 23 05 45 14.4–.58 31.24N 115.65W 4 3.2L,3.0 **¶601136843**
MEX I 23 05 45 15.2–.56 31.10N 115.70W 11–34 3.5,3.0
ISC Event type ke.
ECX Error ellipse: s-maj=1.3km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=32.2km s-min=8.2km az=-1.0.
ISC I 23 05 55 28.9–1.0 31.25N–.03 115.68W–.03 5–9 86 0-39
ISCJB I 23 05 55 28.7–.50 31.23N–.03 115.64W–.03 15–5 3.3b **¶15959237**
NEIC I 23 05 55 29.6 31.23N 115.69W 5 4.1L,4.0
ECX I 23 05 55 29.6–.48 31.23N 115.69W 5 4.1L,3.9
MEX I 23 05 55 30.2–.97 31.06N 115.69W 17–74 4.0,3.9
IDC I 23 05 55 31.3–2.2 31.48N 115.40W 0 3.5,3.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.5km az=16.5.
NEIC Event type se. After ECX.

ECX Error ellipse: s-maj=1.2km s-min=1.9km az=-1.0. Moment Tensor Solution. NP1: ϕ_s120.00000°,δ90.00000°,λ0.00000°.
MEX Error ellipse: s-maj=14.7km s-min=12.8km az=-1.0.
IDC Error ellipse: s-maj=39.8km s-min=11.3km az=44.0.
ISC I 23 06 03 27.6–.93 31.27N–.06 115.67W–.04 14–11 19 0-2
ISCJB I 23 06 03 27.7–.54 31.28N–.05 115.66W–.04 9–9 **¶601136844**
ECX I 23 06 03 28.7–.52 31.25N 115.66W 5 2.9L,2.7
MEX I 23 06 03 29.9–.45 31.13N 115.65W 15–26 3.7,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.0km az=19.8.
ECX Error ellipse: s-maj=1.5km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=30.6km s-min=20.8km az=-1.0.
ISC I 23 15 43 37.7–.85 23.99N–.07 109.07W–.05 22 3.3b,3.3s 44 1-48
NEIC I 23 15 43 34.0–1.9 23.61N 109.00W 10 4.0,3.8b **¶16020107**
IDC I 23 15 43 34.4–3.3 23.94N 109.04W 0 4.0,3.8L
MEX I 23 15 43 42.9–.57 23.97N 109.38W 10 4.0,3.8L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=25.3km s-min=12.9km az=165.0.
IDC Error ellipse: s-maj=55.7km s-min=12.8km az=171.0.
MEX Error ellipse: s-maj=4.4km s-min=6.9km az=-1.0.
ISC I 23 16 18 22.3–1.1 31.27N–.09 115.57W–.05 12–16 15 0-1
MEX I 23 16 18 21.6–.70 31.33N 115.39W 20–999 3.5 **¶16328458**
ISCJB I 23 16 18 22.7–1.1 31.23N–.09 115.58W–.04 19–20 3.5
ECX I 23 16 18 23.3–.72 31.24N 115.60W 5 3.2L,3.0
ISC Event type ke.
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=6.2km az=7.5.
ECX Error ellipse: s-maj=1.5km s-min=1.8km az=-1.0.
MEX I 23 16 56 58.0–.31 28.00N 112.03W 10 3.7
¶601136848
MEX Error ellipse: s-maj=4.4km s-min=5.7km az=-1.0.
ISC I 24 00 25 40.2–.93 31.26N–.06 115.66W–.04 13–12 22 0-1
ISCJB I 24 00 25 40.2–.54 31.28N–.05 115.65W–.04 8–9 **¶602426845**
MEX I 24 00 25 41.9–.54 31.20N 115.44W 26–13 3.5
ECX I 24 00 25 41.1–.63 31.24N 115.65W 4 3.0L,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.9km az=19.5.
MEX Error ellipse: s-maj=8.5km s-min=12.5km az=-1.0.
ECX Error ellipse: s-maj=1.7km s-min=1.6km az=-1.0.
ISC I 25 13 53 21.1–1.2 31.17N–.07 115.56W–.08 25–14 24 0-2
ISCJB I 25 13 53 21.1–.74 31.11N–.07 115.62W–.07 31–6 **¶16328489**
ECX I 25 13 53 21.8–.54 31.18N 115.72W 5 3.2L,3.0
MEX I 25 13 53 22.4–.38 31.12N 115.73W 6–13 3.7,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=5.2km az=36.6.
ECX Error ellipse: s-maj=2.5km s-min=4.0km az=-1.0.
MEX Error ellipse: s-maj=11.3km s-min=6.2km az=-1.0.
ISC I 26 00 11 28.4–1.1 31.29N–.03 115.64W–.02 1–9 126 0-39
MEX I 26 00 11 28.6–.30 31.05N 115.58W 32–5 4.1 **¶15965862**
NEIC I 26 00 11 28.0 31.24N 115.65W 5 4.5b,4.2L
ECX I 26 00 11 28.4–.59 31.24N 115.65W 5 4.1L,4.0
IDC I 26 00 11 32.0–1.8 31.67N 115.28W 0 3.9,3.9s
ISC Event type se.
MEX Error ellipse: s-maj=7.8km s-min=5.3km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.3km s-min=1.3km az=-1.0. Moment Tensor Solution. NP1:ϕ_s48.33000°,δ60.00000°,λ0.00000°.
IDC Error ellipse: s-maj=27.6km s-min=9.5km az=36.0.
ISC I 26 05 56 53.3–.93 31.26N–.06 115.66W–.04 13–13 18 0-1
ISCJB I 26 05 56 53.5–.64 31.24N–.06 115.64W–.05 17–15 **¶601136877**
ECX I 26 05 56 54.4–.54 31.24N 115.65W 5 3.4L,3.2
MEX I 26 05 56 55.1–.35 31.08N 115.60W 27–7 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.6km az=23.0.
ECX Error ellipse: s-maj=1.2km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=6.1km s-min=5.4km az=-1.0.
MEX I 28 09 13 41.4–.47 31.06N 115.78W 8–44 3.6
¶601136893
MEX Error ellipse: s-maj=47.4km s-min=9.6km az=-1.0.
ISC I 28 19 24 02.9–.99 31.27N–.04 115.66W–.03 9–10 37 0-4
ISCJB I 28 19 24 02.5–.52 31.24N–.04 115.67W–.03 9–6 **¶601136899**
MEX I 28 19 24 03.9–.41 31.10N 115.75W 7–19 3.6
ECX I 28 19 24 03.4–.55 31.26N 115.67W 6–2 3.7L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=10.4.
MEX Error ellipse: s-maj=17.0km s-min=3.6km az=-1.0.
ECX Error ellipse: s-maj=1.5km s-min=1.2km az=-1.0. Moment Tensor Solution. NP1: ϕ_s206.57000°,δ75.52000°,λ-26.57000°.
ISC I 29 02 06 04.7–1.2 31.31N–.04 115.57W–.04 4–11 36 0-4
ISCJB I 29 02 06 04.0–.69 31.32N–.03 115.52W–.04 3–5 **¶601707516**
ECX I 29 02 06 05.3–.45 31.23N 115.67W 5 3.5L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=158.7.
ECX Error ellipse: s-maj=2.1km s-min=2.5km az=-1.0.
ISC II 03 23 23 01.6–2.9 31.2N–.10 116.6W–.10 9–11 21 0-2
ECX II 03 23 23 03.0–.46 31.17N 116.67W 8 3.2L,3.0 **¶16328643**
MEX II 03 23 23 06.6–.71 31.25N 116.45W 10 3.8,3.0
ISC Event type ke.
ECX Error ellipse: s-maj=2.3km s-min=2.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_s120.00000°,δ90.00000°,λ0.00000°.
MEX Error ellipse: s-maj=4.9km s-min=6.5km az=-1.0.
ISC II 04 10 22 57.9–1.0 31.89N–.02 116.05W–.02 6–10 67 1-3
ISCJB II 04 10 22 57.5–.52 31.90N–.02 116.05W–.03 5–4 **¶16339706**
NEIC II 04 10 22 59.3 31.89N 116.08W 6 3.2L,3.1L
ECX II 04 10 22 59.3–.56 31.89N 116.08W 6 3.1L,2.9
MEX II 04 10 23 00.2–.46 31.93N 116.08W 11–4 3.7,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.0km az=151.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=1.1km az=-1.0.
MEX Error ellipse: s-maj=1.9km s-min=2.2km az=-1.0.
ISC II 04 21 40 21.1–1.1 31.26N–.06 115.6W–.10 10–19 19 0-2
ECX II 04 21 40 22.0–.33 31.19N 115.69W 5 2.3L **¶601136935**
MEX II 04 21 40 22.0–.32 31.25N 115.34W 12–26 3.6
ISC Event type ke.
ECX Error ellipse: s-maj=2.7km s-min=3.8km az=-1.0.
MEX Error ellipse: s-maj=17.6km s-min=26.3km az=-1.0.
ISC II 04 23 59 31.4–1.1 31.2N–.10 115.7W–.10 15 14 0-2
ISCJB II 04 23 59 32.5–.63 31.24N–.09 115.7W–.10 15 **¶16328697**
MEX II 04 23 59 32.4–.58 31.30N 115.33W 20–3 3.6
ECX II 04 23 59 33.3–.43 31.21N 115.70W 5 2.4L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=4.0km az=135.1.
MEX Error ellipse: s-maj=6.9km s-min=26.4km az=-1.0.
ECX Error ellipse: s-maj=2.7km s-min=2.8km az=-1.0.
ISC II 05 11 56 24.4–1.0 31.20N–.05 115.65W–.04 14–8 29 0-3
ISCJB II 05 11 56 24.7–.64 31.17N–.05 115.63W–.04 22–5 **¶601136937**
ECX II 05 11 56 25.6–.35 31.24N 115.63W 5 3.4L,3.2
MEX II 05 11 56 25.6–.95 31.00N 115.71W 15–29 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.4km az=28.5.
ECX Error ellipse: s-maj=1.1km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=39.9km s-min=23.5km az=-1.0.
MEX II 06 18 49 08.9–.35 27.96N 112.09W 2–10 3.7
¶601136945
MEX Error ellipse: s-maj=6.0km s-min=6.9km az=-1.0.
MEX II 06 20 40 48.9–.38 27.46N 112.64W 18–147 3.2
¶601136948
MEX Error ellipse: s-maj=18.5km s-min=11.9km az=-1.0.
MEX II 11 11 41 15.8–.27 27.93N 112.06W 12 3.4
¶601136987

MEX Error ellipse: s-maj=4.7km s-min=5.7km az=-1.0.
ISC II 13 12 39 12.1–1.1 31.88N–.04 116.11W–.04 32–13 17 0-1
ISCJB II 13 12 39 12.4–.85 31.87N–.05 116.13W–.09 32–11 **¶601137008**
ECX II 13 12 39 13.3–.54 31.90N 116.08W 3 2.3L,2.1
MEX II 13 12 39 14.8–.36 31.84N 116.17W 24–53 3.5,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.3km az=163.6.
ECX Error ellipse: s-maj=1.9km s-min=2.8km az=-1.0.
MEX Error ellipse: s-maj=3.5km s-min=5.2km az=-1.0.
ISC II 18 13 00 43.4–1.0 31.32N–.04 115.59W–.03 10–11 22 0-2
ISCJB II 18 13 00 43.5–.67 31.31N–.05 115.61W–.04 3–10 **¶601137046**
ECX II 18 13 00 44.6–.55 31.28N 115.61W 5 2.8L,2.6
MEX II 18 13 00 45.4–.28 31.18N 115.42W 27–7 3.7,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.4km az=179.2.
ECX Error ellipse: s-maj=1.3km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=4.9km s-min=5.9km az=-1.0.
ISC II 19 02 53 27.5–1.2 31.76N–.02 115.04W–.03 20–3 54 0-6
MEX II 19 02 53 28.7–.45 31.77N 114.95W 52–8 4.1 **¶16425181**
NEIC II 19 02 53 29.3 31.78N 115.08W 7 3.5L
ECX II 19 02 53 29.3–.40 31.78N 115.10W 7 3.5L,3.3
ISC Event type se.
MEX Error ellipse: s-maj=1.8km s-min=7.9km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=0.9km s-min=2.6km az=-1.0.
ISC II 21 20 23 34.9–1.1 31.82N–.03 115.82W–.03 18–11 25 0-1
ISCJB II 21 20 23 35.1–.99 31.81N–.03 115.84W–.03 10–8 **¶601137082**
ECX II 21 20 23 36.1–.46 31.80N 115.82W 5 2.4L,2.2
MEX II 21 20 23 37.9–.39 31.83N 115.81W 32–29 3.7,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=23.6.
ECX Error ellipse: s-maj=1.3km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
ISC II 23 13 22 34.9–1.1 31.33N–.03 115.66W–.03 1–12 36 0-4
ISCJB II 23 13 22 34.8–.57 31.31N–.04 115.67W–.03 1–7 **¶16425194**
NEIC II 23 13 22 35.8 31.27N 115.66W 5 3.0L,2.9L
ECX II 23 13 22 35.8–.57 31.27N 115.66W 5 2.9L,2.7
MEX II 23 13 22 36.6–.50 31.09N 115.65W 28–17 4.0,2.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.9km az=20.7.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=2.7km s-min=2.7km az=-1.0.
MEX Error ellipse: s-maj=14.4km s-min=11.6km az=-1.0.
IDC III 03 06 44 07.6–2.6 23.27N 110.37W 0 3.6L,3.3
¶17193175
IDC Error ellipse: s-maj=58.3km s-min=19.2km az=97.0.
ISC III 15 07 15 47.4–1.6 31.52N–.04 116.88W–.05 7–11 58 0-3
ISCJB III 15 07 15 47.6–.92 31.48N–.03 116.95W–.04 8–4 **¶16442372**
NEIC III 15 07 15 49.6 31.51N 116.89W 6 3.6,3.3L
ECX III 15 07 15 49.6–.51 31.51N 116.89W 6 3.3L,3.2
MEX III 15 07 15 50.0–.39 31.52N 117.01W 7–18 3.6,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.9km az=139.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=9.3km s-min=22.0km az=-1.0.
MEX III 18 21 24 10.6–.31 28.61N 113.85W 10–5 3.5
¶601137296
MEX Error ellipse: s-maj=4.7km s-min=8.7km az=-1.0.
MEX III 20 00 01 07.9–.40 27.99N 112.02W 21–30 3.7
¶601137307
MEX Error ellipse: s-maj=3.1km s-min=3.9km az=-1.0.
MEX III 24 04 14 03.1–.29 26.87N 112.22W 15 4.0
NEIC III 24 04 14 03.1 26.87N 112.22W 15 4.0 **¶16440431**
MEX Error ellipse: s-maj=2.0km s-min=3.1km az=-1.0.
NEIC Event type se. After MEX.
MEX III 24 06 39 04.8–.62 27.02N 112.23W 6–7 3.7
¶601137340
MEX Error ellipse: s-maj=4.7km s-min=8.9km az=-1.0.
MEX III 24 18 57 08.7–.93 27.60N 112.41W 15 3.7
¶601137345
MEX Error ellipse: s-maj=8.5km s-min=14.7km az=-1.0.
MEX III 24 21 13 36.2–.33 27.47N 112.01W 10 3.4
¶601137346
MEX Error ellipse: s-maj=6.1km s-min=4.8km az=-1.0.
MEX III 25 14 40 35.1–.48 27.51N 112.44W 19–66 3.3
¶601137351
MEX Error ellipse: s-maj=11.1km s-min=5.7km az=-1.0.
MEX III 25 18 15 55.2–.60 27.09N 112.09W 8–6 3.7
¶601137354
MEX Error ellipse: s-maj=7.1km s-min=5.4km az=-1.0.
MEX III 26 02 00 53.9–.42 27.22N 112.06W 7–7 3.5
¶601137355
MEX Error ellipse: s-maj=13.4km s-min=4.9km az=-1.0.
ISC III 27 05 23 39.3–1.9 31.1N–.10 115.24W–.08 15–11 17 0-2
ECX III 27 05 23 39.2–.32 30.84N 115.28W 6 3.5L,3.3 **¶601137362**
MEX III 27 05 23 40.1–.76 30.84N 115.31W 5 3.8,3.3
ISC Event type ke.
ECX Error ellipse: s-maj=1.8km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=11.8km s-min=18.9km az=-1.0.
ISC III 28 03 17 18.4–1.1 28.73N–.06 113.03W–.09 8 12 2-42
ISCJB III 28 03 17 18.8–1.2 28.80N–.07 113.05W–.09 8 2.9b **¶17198895**
MEX III 28 03 17 21.7–.81 28.84N 113.17W 10 3.8
IDC III 28 03 17 22.4–5.2 28.75N 112.88W 21–35 3.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=9.1km az=162.7.
MEX Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=28.5km s-min=22.2km az=45.0.
MEX III 28 07 13 39.7–.33 26.90N 112.22W 8–6 3.7
¶601137378
MEX Error ellipse: s-maj=3.1km s-min=8.0km az=-1.0.
MEX III 28 08 22 03.4–.67 28.75N 113.26W 10 3.6
¶601137379
MEX Error ellipse: s-maj=3.4km s-min=3.5km az=-1.0.
MEX III 29 09 40 20.4–.38 28.72N 113.22W 10 3.6
¶601137393
MEX Error ellipse: s-maj=2.4km s-min=2.2km az=-1.0.
ISC IV 01 11 21 55.9–.96 31.35N–.05 115.24W–.05 14–9 30 0-2
ISCJB IV 01 11 21 56.1–.56 31.36N–.05 115.25W–.06 11–8 **¶601137446**
ECX IV 01 11 21 56.6–.57 31.39N 115.24W 6 3.0L,2.8
MEX IV 01 11 21 58.5–.70 31.26N 115.21W 10 3.5,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=4.6km az=136.7.
ECX Error ellipse: s-maj=1.2km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=2.5km s-min=6.5km az=-1.0.
ISC IV 03 15 30 21.2–1.1 31.79N–.03 116.07W–.02 5–11 88 0-6
ISCJB IV 03 15 30 21.5–.54 31.76N–.03 116.10W–.03 11–4 **¶16407586**
NEIC IV 03 15 30 22.9 31.75N 116.11W 7 3.5L,3.4L
ECX IV 03 15 30 22.9–.46 31.75N 116.11W 7 3.5L,3.3
MEX IV 03 15 30 23.7–1.0 31.71N 116.19W 16–12 3.6,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=32.8.
NEIC Event type fe. Felt at Ensenada. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=5.5km s-min=7.1km az=-1.0.
ISC IV 05 11 51 40.3–.93 31.27N–.05 115.67W–.04 16–10 23 0-2
ISCJB IV 05 11 51 40.6–.53 31.30N–.05 115.66W–.04 9–9 **¶601137482**
ECX IV 05 11 51 41.6–.55 31.26N 115.67W 5 3.0L,2.8
MEX IV 05 11 51 42.1–.36 31.08N 115.75W 12–17 3.7,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.9km az=19.6.

ECX Error ellipse: s-maj=1.2km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=16.6km s-min=6.8km az=-1.0.
ISC IV 06 23 00 16.8–1.1 31.28N–.03 115.66W–.04 5–11 39 0-3
ISCJB IV 06 23 00 17.0–.51 31.25N–.04 115.63W–.04 8–7 **¶16577707**
ECX IV 06 23 00 18.1–.51 31.24N 115.62W 5 3.4L,3.2
MEX IV 06 23 00 19.1–.78 31.14N 115.68W 6–21 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.1km az=20.4.
ECX Error ellipse: s-maj=1.0km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=15.6km s-min=7.3km az=-1.0.
ISC IV 07 13 40 58.8–.57 31.25N–.03 115.67W–.02 10 4.1b 203 0-108
ISCJB IV 07 13 40 57.3–.31 31.20N–.02 115.65W–.02 10 4.2b **¶16413595**
NEIC IV 07 13 40 57.8 31.24N 115.62W 5 4.5,4.1b
ECX IV 07 13 40 57.9–.69 31.23N 115.62W 5 5.0W,4.5L
MEX IV 07 13 40 59.4–.53 31.16N 115.63W 7–18 4.1,4.5L
IDC IV 07 13 40 60.0–1.8 31.41N 115.43W 0 4.2,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=1.9km az=28.6.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=1.5km az=-1.0. Moment Tensor Solution. NP1:ϕ_s82.02000° ,δ64.34000°,λ16.10000°.
MEX Error ellipse: s-maj=11.5km s-min=5.7km az=-1.0.
IDC Error ellipse: s-maj=28.9km s-min=10.0km az=40.0.
ISC IV 09 12 15 50.2–1.1 31.30N–.03 115.63W–.03 2–11 39 0-3
ECX IV 09 12 15 51.2–.58 31.27N 115.58W 4 3.4L,3.2 **¶601137522**
MEX IV 09 12 15 52.1–.88 31.01N 115.69W 20–13 3.7,3.2
ISC Event type ke.
ECX Error ellipse: s-maj=1.4km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=7.6km s-min=7.4km az=-1.0.
ISC IV 09 12 33 14.4–1.2 31.19N–.04 115.68W–.03 14–10 36 0-3
ECX IV 09 12 33 16.2–.56 31.22N 115.67W 5 2.8L,2.6 **¶601137523**
MEX IV 09 12 33 16.1–.56 31.04N 115.76W 6–27 3.6,2.6
ISC Event type ke.
ECX Error ellipse: s-maj=1.4km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=25.5km s-min=4.9km az=-1.0.
ISC IV 09 20 01 06.0–1.2 31.24N–.03 115.58W–.04 11–11 28 0-3
ECX IV 09 20 01 08.0–.53 31.22N 115.63W 5 2.4L,2.2 **¶601137527**
MEX IV 09 20 01 09.0–.76 31.17N 115.44W 23–13 3.5,2.2
ISC Event type ke.
ECX Error ellipse: s-maj=2.0km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=7.0km s-min=8.1km az=-1.0.
ISC IV 10 02 07 25.0–1.0 31.30N–.07 115.64W–.05 12–16 17 0-2
ISCJB IV 10 02 07 25.3–.59 31.29N–.05 115.67W–.05 5–10 **¶601137534**
ECX IV 10 02 07 26.3–.71 31.24N 115.67W 5 3.0L,2.8
MEX IV 10 02 07 27.1–.70 31.05N 115.71W 15–3 3.6,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.9km az=26.2.
ECX Error ellipse: s-maj=2.9km s-min=2.9km az=-1.0.
MEX Error ellipse: s-maj=5.7km s-min=4.3km az=-1.0.
ISC IV 11 09 03 17.2–.83 31.20N–.06 115.48W–.03 14–10 50 0-6
ISCJB IV 11 09 03 16.0–.48 31.27N–.03 115.50W–.03 2–5 **¶601137549**
MEX IV 11 09 03 17.6–.32 31.15N 115.33W 16–11 3.8
ECX IV 11 09 03 17.0–.60 31.22N 115.59W 5 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.7km az=17.0.
MEX Error ellipse: s-maj=11.0km s-min=5.1km az=-1.0.
ECX Error ellipse: s-maj=1.2km s-min=1.4km az=-1.0.
ISC IV 11 09 05 05.1–.95 31.26N–.03 115.58W–.03 11–9 35 0-3
ISCJB IV 11 09 05 05.8–.58 31.18N–.05 115.58W–.04 19–5 **¶602553176**
ECX IV 11 09 05 06.4–.45 31.25N 115.57W 5 3.7L,3.5
MEX IV 11 09 05 08.0–.44 31.11N 115.60W 12–16 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.6km az=26.7.
ECX Error ellipse: s-maj=1.0km s-min=1.3km az=-1.0.
MEX Error ellipse: s-maj=15.0km s-min=4.9km az=-1.0.
ISC IV 11 12 36 35.8–1.0 31.26N–.03 115.62W–.03 6–9 77 0-39
MEX IV 11 12 36 36.9–.25 31.00N 115.71W 5 3.9 **¶17200616**
ECX IV 11 12 36 36.4–.49 31.23N 115.60W 4 3.9L,3.7
IDC IV 11 12 36 36.5–2.5 31.15N 115.63W 0 3.4,3.4b
ISC Event type ke.
MEX Error ellipse: s-maj=3.9km s-min=1.7km az=-1.0.
ECX Error ellipse: s-maj=1.2km s-min=1.3km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=12.1km az=47.0.
ISC IV 11 13 00 12.0–1.0 31.22N–.03 115.63W–.03 5–9 3.3b 94 0-39
ISCJB IV 11 13 00 11.8–.49 31.23N–.03 115.56W–.03 9–5 3.1b **¶16525106**
MEX IV 11 13 00 12.7–.30 30.97N 115.69W 9–8 3.6
NEIC IV 11 13 00 12.6 31.22N 115.59W 5 4.1L,4.1L
ECX IV 11 13 00 12.6–.61 31.22N 115.59W 5 4.1L,4.1L
IDC IV 11 13 00 13.1–2.6 31.36N 115.49W 0 3.5,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.4km az=25.9.
MEX Error ellipse: s-maj=9.0km s-min=5.3km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.4km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=55.2km s-min=12.5km az=45.0.
ISC IV 11 13 01 42.1–.97 31.27N–.03 115.61W–.04 10–10 32 0-3
ISCJB IV 11 13 01 42.9–.51 31.19N–.04 115.58W–.04 15–6 **¶601137554**
MEX IV 11 13 01 43.2–.37 31.22N 115.30W 5–9 3.3
ECX IV 11 13 01 43.4–.57 31.23N 115.59W 5 3.7L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=33.1.
MEX Error ellipse: s-maj=5.5km s-min=7.0km az=-1.0.
ECX Error ellipse: s-maj=1.9km s-min=2.4km az=-1.0.
ISC IV 12 05 32 17.6–1.1 31.28N–.03 115.67W–.04 6–12 34 0-3
ISCJB IV 12 05 32 17.7–.54 31.27N–.04 115.66W–.03 0–6 **¶601137561**
MEX IV 12 05 32 18.8–.42 30.94N 115.71W 16–477 3.7
ECX IV 12 05 32 18.9–.53 31.23N 115.65W 5–2 3.1L,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.8km az=31.4.
MEX Error ellipse: s-maj=5.3km s-min=6.3km az=-1.0.
ECX Error ellipse: s-maj=1.4km s-min=1.2km az=-1.0.
ISC IV 12 17 01 50.2–1.1 31.25N–.04 115.62W–.03 4–10 40 0-39
ISCJB IV 12 17 01 49.8–.55 31.25N–.04 115.63W–.03 3–6 3.1b **¶16577795**
ECX IV 12 17 01 50.8–.58 31.22N 115.62W 5 3.7L,3.5
MEX IV 12 17 01 52.1–.50 31.14N 115.58W 13–19 3.6,3.5
IDC IV 12 17 01 55.1–2.7 31.44N 115.38W 0 3.6L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.9km az=28.3.
ECX Error ellipse: s-maj=1.5km s-min=1.5km az=-1.0.
MEX Error ellipse: s-maj=17.4km s-min=6.5km az=-1.0.
IDC Error ellipse: s-maj=49.4km s-min=14.0km az=42.0.
ISC IV 12 17 23 58.2–.96 31.25N–.05 115.61W–.04 16–9 20 0-1
ISCJB IV 12 17 23 58.7–.53 31.26N–.05 115.62W–.05 10–9 **¶601137563**
ECX IV 12 17 23 59.6–.46 31.23N 115.61W 4 2.6L,2.4
MEX IV 12 17 24 01.0–.50 31.16N 115.58W 14–25 3.5,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.9km az=7.5.
ECX Error ellipse: s-maj=1.1km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=227.3km s-min=303.9km az=-1.0.
ISC IV 12 21 09 20.7–1.2 31.19N–.07 115.63W–.05 28–12 22 0-2
ECX IV 12 21 09 22.7–.45 31.25N 115.64W 5 3.0L,2.8 **¶16587475**
MEX IV 12 21 09 23.5–.34 31.06N 115.69W 11–19 3.6,2.8
ISC Event type ke.
ECX Error ellipse: s-maj=1.0km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=19.8km s-min=7.8km az=-1.0.
ISC IV 13 10 37 42.1–1.0 31.25N–.04 115.62W–.04 13–9 32 0-3
ECX IV 13 10 37 43.9–.64 31.24N 115.65W 5 3.1L,2.9 **¶601137571**
MEX IV 13 10 37 45.4–.58 31.19N 115.50W 16–7 3.6,2.9
ISC Event type ke.
ECX Error ellipse: s-maj=2.4km s-min=2.7km az=-1.0.
MEX Error ellipse: s-maj=2.4km s-min=6.0km az=-1.0.

ISC IV 14 09 35 36.3–.00 31.28N–.04 115.61W–.04 8–11 31 0-3
ISCJB IV 14 09 35 36.5–.60 31.24N–.04 115.63W–.04 3–8 **¶601137579**
ECX IV 14 09 35 37.5–.61 31.22N 115.61W 5 3.0L,2.8
MEX IV 14 09 35 39.0–.41 31.17N 115.57W 10–15 3.6,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.0km az=22.7.
ECX Error ellipse: s-maj=1.2km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=56.7km s-min=83.2km az=-1.0.
MEX IV 15 00 44 22.4–1.0 27.11N 112.18W 8–8 3.5
¶602596197
MEX Error ellipse: s-maj=9.3km s-min=7.8km az=-1.0.
ISC IV 15 06 14 02.9–.96 31.29N–.04 115.59W–.04 16–9 22 0-1
ISCJB IV 15 06 14 03.3–.62 31.25N–.07 115.59W–.04 21–10 **¶601137591**
ECX IV 15 06 14 04.3–.48 31.27N 115.60W 5 2.4L,2.3
MEX IV 15 06 14 05.6–.57 31.17N 115.64W 12–43 3.6,2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=5.7km az=13.1.
ECX Error ellipse: s-maj=0.9km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=35.4km s-min=8.2km az=-1.0.
ISC IV 20 13 19 20.8–1.7 31.88N–.04 115.0W–.10 28–13 16 0-2
ISCJB IV 20 13 19 21.2–1.4 31.87N–.04 115.0W–.10 28–8 **¶601137667**
ECX IV 20 13 19 23.1–.34 31.87N 115.08W 10 2.6L,2.4
MEX IV 20 13 19 23.7–.33 31.90N 115.03W 16–7 3.6,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=5.9km az=175.6.
ECX Error ellipse: s-maj=0.7km s-min=2.8km az=-1.0.
MEX Error ellipse: s-maj=2.0km s-min=12.5km az=-1.0.
ISC IV 20 22 41 57.3–1.2 31.27N–.05 115.64W–.04 3–13 24 0-3
ISCJB IV 20 22 41 56.9–.59 31.27N–.04 115.63W–.04 4–9 **¶601137675**
ECX IV 20 22 41 57.7–.55 31.27N 115.60W 5 3.3L,3.1
MEX IV 20 22 41 59.3–.42 31.19N 115.46W 16–46 3.6,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.5km az=11.5.
ECX Error ellipse: s-maj=1.4km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=8.2km s-min=5.9km az=-1.0.
ISC IV 21 04 25 05.0–.93 31.30N–.03 115.67W–.03 15–8 42 0-4
ECX IV 21 04 25 06.8–.42 31.25N 115.66W 5 3.7L,3.5 **¶601137678**
MEX IV 21 04 25 07.9–.56 31.17N 115.52W 31–24 3.8,3.5
ISC Event type ke.
ECX Error ellipse: s-maj=1.8km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=12.6km s-min=36.1km az=-1.0.
ISC IV 21 04 28 10.1–1.5 31.30N–.04 115.54W–.07 8–15 17 0-1
ISCJB IV 21 04 28 11.6–.62 31.33N–.05 115.62W–.05 5–11 **¶601137679**
ECX IV 21 04 28 12.6–.55 31.30N 115.61W 5 2.7L,2.5
MEX IV 21 04 28 13.4–.33 31.24N 115.35W 22–23 3.6,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.2km az=24.5.
ECX Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=8.5km s-min=18.7km az=-1.0.
MEX IV 23 01 20 03.4–.57 31.18N 115.62W 20–148 3.5
¶602596479
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC IV 26 22 45 24.2–1.3 31.98N–.03 115.06W–.04 19–3 25 0-4
NEIC IV 26 22 45 24.6 32.04N 115.02W 10 2.8L **¶601137764**
ECX IV 26 22 45 26.8–.42 32.03N 115.28W 8 2.9L,2.7
MEX IV 26 22 45 29.3–.36 31.91N 115.43W 8–21 3.3,2.7
ISC Event type se.
NEIC Event type se. After PAS.
ECX Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
MEX Error ellipse: s-maj=5.0km s-min=7.3km az=-1.0.
ISC IV 29 10 17 30.6–1.1 31.24N–.05 115.63W–.04 8–12 21 0-2
ISCJB IV 29 10 17 30.4–.58 31.25N–.05 115.63W–.04 5–9 **¶601137824**
MEX IV 29 10 17 31.9–.55 31.24N 115.40W 6–21 3.5
ECX IV 29 10 17 31.3–.62 31.21N 115.62W 5 2.6L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.9km az=25.1.
MEX Error ellipse: s-maj=8.5km s-min=22.6km az=-1.0.
ECX Error ellipse: s-maj=1.4km s-min=1.4km az=-1.0.
ISC IV 29 22 32 00.6–.88 28.88N–.04 113.06W–.04 27–5 5.0b,4.8s 921 2-144
ISCJB IV 29 22 31 56.3–.21 28.85N–.02 112.99W–.02 10 4.8b,4.8s **¶16485198**
BJI IV 29 22 31 56.9 28.78N 113.20W 19 5.5b,5.4s
MEX IV 29 22 31 56.4–.35 28.81N 113.19W 8–3 5.1,5.4s
IDC IV 29 22 31 56.6–.55 29.00N 113.10W 0 4.7,4.7s
MOS IV 29 22 31 57.1–1.4 28.77N 113.09W 19 5.2b,5.0s
NEIC IV 29 22 31 58.3–.30 28.74N 113.13W 10 5.2W,5.0b
GCMT IV 29 22 31 58.3–.20 28.81N 113.12W 17–0 5.3W,5.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.5km az=27.6.
MEX Error ellipse: s-maj=2.8km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=9.3km az=47.0.
MOS Error ellipse: s-maj=7.5km s-min=3.9km az=94.7.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=42.0. Felt at Guerrero Negro, Baja California Sur. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}0.51 $M_{\theta\theta}$-6.76 $M_{\phi\phi}$6.25 $M_{r\theta}$-0.15 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.89 Best double couple: NP1:ϕ_s309.00000° ,δ78.00000°,λ168.00000°. NP2:ϕ_s42.00000°,δ78.00000°,λ12.00000°. Principal axes: T 6.8900,Plg17.0000°,Azm266.0000°; N -0.0500,Plg73.0000°,Azm86.0000° ; P -6.8400,Plg0.0000°,Azm356.0000° $M_0$6.90000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c108; s114,c201; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.40±.02 $M_{\theta\theta}$-0.80±.02; $M_{\phi\phi}$1.20±.02; $M_{r\theta}$-0.43±.06; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$-0.14±.05; Best double couple: NP1:ϕ_s31.00000°,δ70.00000° ,λ-25.00000°. NP2:ϕ_s130.00000°,δ66.00000°,λ-158.00000°. Principal axes: T 1.2580,Plg2.0000°,Azm81.0000°; N -0.1280,Plg58.0000°,Azm175.0000° ; P -1.1330,Plg32.0000°,Azm350.0000° $M_0$1.19500×10^{17}
ISC IV 30 06 07 51.6–.64 28.67N–.04 113.20W–.04 8 4.6b 259 2-39
ISCJB IV 30 06 07 50.5–.43 28.77N–.04 113.14W–.03 8 4.2b,3.5s **¶602596717**
MEX IV 30 06 07 51.8–.40 28.95N 113.18W 4 4.2,3.5s
NEIC IV 30 06 07 52.8–.72 28.71N 113.19W 10 4.4L,4.2
IDC IV 30 06 07 53.5–2.0 29.04N 112.83W 0 4.0,3.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=2.5km az=36.4.
MEX Error ellipse: s-maj=5.2km s-min=2.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=5.4km az=49.0. Moment Tensor Solution. s10 Moment tensor: Scale 10^{15}Nm; M_{rr}0.15 $M_{\theta\theta}$-2.62 $M_{\phi\phi}$2.47 $M_{r\theta}$0.47 $M_{\theta\phi}$-0.47 $M_{\phi r}$-0.80 Best double couple: NP1:ϕ_s221.00000°,δ71.00000°,λ7.00000°. NP2:ϕ_s129.00000° ,δ83.00000°,λ161.00000°. Principal axes: T 2.7800,Plg18.0000°,Azm83.0000° ; N -0.0600,Plg70.0000°,Azm290.0000°; P -2.7200,Plg8.0000°,Azm176.0000° $M_0$2.80000×10^{15}
IDC Error ellipse: s-maj=30.9km s-min=14.1km az=35.0.
ECX IV 30 09 02 51.5–.46 31.23N 115.68W 5 2.5L,2.3
MEX IV 30 09 02 51.9–.26 31.09N 115.75W 4 3.5,2.3 **¶601137831**
ECX Error ellipse: s-maj=1.9km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=7.6km s-min=4.1km az=-1.0.
MEX V 01 02 01 29.7–.47 28.97N 113.20W 12–11 3.8
¶602597576
MEX Error ellipse: s-maj=4.2km s-min=6.7km az=-1.0.
ISC V 02 01 54 34.6–1.8 31.15N–.08 115.64W–.04 20–2 29 0-3
ISCJB V 02 01 54 35.7–.55 31.20N–.04 115.64W–.04 17–6 **¶601137851**
ECX V 02 01 54 36.4–.35 31.24N 115.62W 5 2.9L,2.7
MEX V 02 01 54 37.2–.39 31.06N 115.68W 15 3.9,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.5km az=31.3.
ECX Error ellipse: s-maj=1.0km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=3.7km s-min=2.8km az=-1.0.
MEX V 03 03 27 12.8–.41 27.93N 112.00W 2–5 3.5
¶602597592
MEX Error ellipse: s-maj=2.3km s-min=2.7km az=-1.0.
MEX V 11 11 04 11.7–.87 28.69N 113.52W 15–14 3.7
¶602597689
MEX Error ellipse: s-maj=5.3km s-min=10.7km az=-1.0.
MEX V 16 09 55 01.4–.60 28.92N 113.22W 10 3.5

¶602597764
MEX Error ellipse: s-maj=3.5km s-min=2.6km az=-1.0.
ISC V 21 12 50 17.8–1.0 31.28N–.06 115.66W–.05 16–12 17 0-2
ECX V 21 12 50 19.5–.58 31.26N 115.67W 5 2.7L,2.5 ¶602597814
MEX V 21 12 50 20.2–.40 31.01N 115.73W 15 3.5,2.5
ISC Event type ke.
ECX Error ellipse: s-maj=2.5km s-min=2.6km az=-1.0.
MEX Error ellipse: s-maj=4.5km s-min=2.7km az=-1.0.
ISC V 21 16 05 47.0–1.1 31.87N–.02 116.16W–.03 14–10 45 0-3
ISCJB V 21 16 05 47.9–1.4 31.88N–.02 116.14W–.03 15–11 ¶601138080
ECX V 21 16 05 48.9–.65 31.87N 116.15W 7 3.1L,2.9
MEX V 21 16 05 49.3–.40 31.91N 116.17W 5–5 3.7,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=156.2.
ECX Error ellipse: s-maj=1.0km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=2.1km s-min=2.3km az=-1.0.
ISC V 23 05 45 51.2–1.3 31.35N–.07 115.59W–.06 16–12 18 0-1
ISCJB V 23 05 45 51.9–.69 31.25N–.07 115.67W–.05 26–9 ¶602597831
ECX V 23 05 45 53.1–.43 31.28N 115.68W 5 2.4L,2.2
MEX V 23 05 45 54.2–.58 31.25N 115.57W 16–21 3.5,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=6.5km az=17.0.
ECX Error ellipse: s-maj=1.2km s-min=1.2km az=-1.0.
MEX Error ellipse: s-maj=60.3km s-min=114.7km az=-1.0.
ISC V 24 17 47 49.4–1.0 31.26N–.03 115.64W–.03 16–9 34 0-3
ECX V 24 17 47 50.8–.56 31.31N 115.61W 5 3.5L,3.3 ¶601138158
MEX V 24 17 47 52.2–.60 31.18N 115.62W 15–31 3.5,3.3
ISC Event type ke.
ECX Error ellipse: s-maj=1.9km s-min=2.3km az=-1.0.
MEX Error ellipse: s-maj=25.1km s-min=7.3km az=-1.0.
MEX V 24 20 13 18.2–.41 27.97N 112.13W 17–844 3.5
¶602597845
MEX Error ellipse: s-maj=6.8km s-min=10.3km az=-1.0.
MEX V 26 14 21 18.9–1.0 27.92N 112.13W 5 3.8
¶602597859
MEX Error ellipse: s-maj=9.5km s-min=22.0km az=-1.0.
ISC VI 03 19 04 32.5–1.1 31.30N–.04 115.45W–.04 11–10 14 0-1
ECX VI 03 19 04 32.9–.44 31.35N 115.40W 7 2.5L,2.3 ¶602597919
MEX VI 03 19 04 34.5–.34 31.02N 115.64W 28–15 3.8,2.3
ISC Event type ke.
ECX Error ellipse: s-maj=1.0km s-min=1.0km az=-1.0.
MEX Error ellipse: s-maj=11.8km s-min=20.9km az=-1.0.
ISC VI 04 03 09 03.8–1.1 31.27N–.04 115.69W–.03 2–11 39 0-3
ISCJB VI 04 03 09 03.5–.56 31.26N–.04 115.69W–.03 1–8 ¶601218295
ECX VI 04 03 09 04.5–.74 31.26N 115.65W 5 3.0L,2.8
MEX VI 04 03 09 05.2–.49 31.12N 115.72W 9–21 3.7,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.0km az=22.9.
ECX Error ellipse: s-maj=2.0km s-min=2.0km az=-1.0.
MEX Error ellipse: s-maj=21.5km s-min=6.4km az=-1.0.
ISC VI 07 12 05 44.5–1.2 31.27N–.03 115.61W–.04 8–12 38 0-3
ECX VI 07 12 05 46.0–.63 31.26N 115.65W 4 3.1L,3.0 ¶601218341
MEX VI 07 12 05 47.2–.34 31.24N 115.51W 10–18 3.5,3.0
ISC Event type ke.
ECX Error ellipse: s-maj=1.7km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=6.4km s-min=28.5km az=-1.0.
MEX VI 08 04 38 31.1–.36 31.12N 115.70W 10–22 3.3
ECX VI 08 04 38 30.8–.30 31.25N 115.58W 5 2.1L,1.9 ¶602597974
MEX Error ellipse: s-maj=25.8km s-min=9.1km az=-1.0.
ECX Error ellipse: s-maj=0.9km s-min=1.0km az=-1.0.
ECX VI 08 18 13 46.8–.49 31.28N 115.64W 5 2.8L,2.6
MEX VI 08 18 13 47.1–.39 31.11N 115.76W 11–27 3.5,2.6 ¶602597979
ECX Error ellipse: s-maj=1.5km s-min=2.1km az=-1.0.
MEX Error ellipse: s-maj=24.8km s-min=4.3km az=-1.0.
MEX VI 08 19 00 24.7–.37 28.78N 113.26W 16–405 3.6
¶602597980
MEX Error ellipse: s-maj=3.6km s-min=4.9km az=-1.0.
MEX VI 09 00 19 44.0–.56 30.09N 115.13W 13–999 3.8
¶602597985
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC VI 11 22 38 16.5–1.1 31.17N–.10 115.69W–.08 17–9 16 0-2
ISCJB VI 11 22 38 17.1–.74 31.2N–.20 115.7W–.10 10–12 ¶602598033
ECX VI 11 22 38 18.1–.46 31.16N 115.70W 5 2.4L,2.2
MEX VI 11 22 38 19.5–.68 31.15N 115.56W 16–999 3.6,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.4km s-min=6.9km az=32.2.
ECX Error ellipse: s-maj=3.4km s-min=3.0km az=-1.0.
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC VI 13 15 21 46.7–1.4 31.10N–.10 115.54W–.05 31–8 18 0-2
ECX VI 13 15 21 49.1–.42 31.22N 115.55W 5 2.3L,2.2 ¶602598052
MEX VI 13 15 21 50.4–.56 30.99N 115.56W 14–7 3.7,2.2
ISC Event type ke.
ECX Error ellipse: s-maj=1.8km s-min=2.5km az=-1.0.
MEX Error ellipse: s-maj=13.6km s-min=12.4km az=-1.0.
MEX VI 14 04 13 33.7–.27 29.86N 114.56W 3 3.9
¶602598059
MEX Error ellipse: s-maj=13.1km s-min=5.6km az=-1.0.
ISC VI 14 10 46 10.8–3.1 31.2N–.10 115.6W–.10 18–7 13 0-2
ISCJB VI 14 10 46 11.0–.78 31.22N–.07 115.58W–.07 16–15 ¶602598062
ECX VI 14 10 46 11.9–.42 31.23N 115.59W 5 2.3L,2.2
MEX VI 14 10 46 12.0–.35 31.03N 115.60W 25–11 3.7,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=10.3km az=5.3.
ECX Error ellipse: s-maj=1.2km s-min=1.7km az=-1.0.
MEX Error ellipse: s-maj=8.1km s-min=11.0km az=-1.0.
ISC VI 15 02 05 42.7–1.7 31.23N–.06 115.63W–.03 6–11 42 1-6
ECX VI 15 02 05 45.4–.96 31.24N 115.69W 5 3.6L,3.4 ¶601791006
ISC Event type ke.
ECX Error ellipse: s-maj=4.9km s-min=4.9km az=-1.0.
ISC VI 15 09 44 18.5–1.9 31.1N–.10 115.87W–.06 22–7 18 0-1
ISCJB VI 15 09 44 19.0–1.2 31.15N–.10 115.87W–.06 19–10 ¶602598071
ECX VI 15 09 44 19.8–.47 31.17N 115.85W 5 2.1L,2.0
MEX VI 15 09 44 20.9–.49 31.11N 115.82W 6–699 3.7,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=5.2km az=22.4.
ECX Error ellipse: s-maj=1.8km s-min=1.4km az=-1.0.
MEX Error ellipse: s-maj=640.8km s-min=52.7km az=-1.0.
ISC VI 15 12 29 06.7–1.1 31.27N–.03 115.66W–.02 3–9 144 0-24
MEX VI 15 12 29 07.8–.29 31.10N 115.60W 26–4 4.2 ¶16601824
ECX VI 15 12 29 07.0–.84 31.23N 115.68W 5 4.2L,4.0
NEIC VI 15 12 29 07.1 31.24N 115.67W 12 4.2,4.2L
ISC Event type fe.
MEX Error ellipse: s-maj=3.7km s-min=3.4km az=-1.0.
ECX Error ellipse: s-maj=2.6km s-min=2.7km az=-1.0. Moment Tensor Solution. NP1: ϕ_s344.90000°,δ75.52000°,λ-26.57000°.
NEIC Event type fe. Felt at Lazaro Cardenas. After ECX.
NEIC VI 18 21 32 59.9–3.1 26.58N 112.85W 10 4.0b
¶602918678
NEIC Event type se. Error ellipse: s-maj=36.9km s-min=8.4km az=182.0.
ISC VI 22 11 33 50.8–1.4 31.85N–.03 115.1W–.10 14–13 21 0-1
ISCJB VI 22 11 33 50.6–.87 31.86N–.04 115.1W–.20 9–13 ¶602598135
MEX VI 22 11 33 51.9–.76 31.88N 114.94W 8 3.7
ECX VI 22 11 33 52.3–.81 31.85N 115.12W 8 2.9L,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.5km s-min=4.2km az=168.0.
MEX Error ellipse: s-maj=3.1km s-min=9.0km az=-1.0.
ECX Error ellipse: s-maj=1.7km s-min=5.0km az=-1.0.
MEX VI 22 23 07 54.4–.76 27.99N 112.10W 10–11 3.9
¶602598139
MEX Error ellipse: s-maj=3.7km s-min=4.5km az=-1.0.
MEX VI 26 04 40 24.3–.38 26.95N 112.22W 20–100 3.6

¶602598169
MEX Error ellipse: s-maj=16.7km s-min=12.1km az=-1.0.
MEX VI 30 21 34 33.3–.34 27.43N 112.61W 16–999 3.6
¶602598221
MEX Error ellipse: s-maj=23.6km s-min=14.8km az=-1.0.

(49) Gulf of California.

ISC I 03 18 11 20.2–.62 26.07N–.05 110.49W–.07 10 4.2b 51 2-122
ISCJB I 03 18 11 19.3–.38 26.03N–.03 110.35W–.05 10 4.1b ¶15930103
IDC I 03 18 11 19.7–.97 26.10N 110.46W 0 4.0,3.8
NEIC I 03 18 11 20.7–.72 25.91N 110.56W 10 4.4b,3.8
GCMT I 03 18 11 20.7–.60 26.00N 110.56W 31–2 5.0W,3.8
MEX I 03 18 11 24.7–.51 25.97N 110.31W 10–10 3.7,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=173.3.
IDC Error ellipse: s-maj=19.2km s-min=16.4km az=85.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.4km az=48.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s72,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.64±.34 $M_{\theta\theta}$-3.09±.25; $M_{\phi\phi}$3.73±.25; $M_{r\theta}$-1.15±.31; $M_{\theta\phi}$-0.41±.19; $M_{\phi r}$-0.00±.29; Best double couple: NP1:ϕ_s134.00000°,δ76.00000°,λ-164.00000°. NP2:ϕ_s40.00000°,δ74.00000°,λ-15.00000°. Principal axes: T 3.7560,Plg1.0000°,Azm266.0000°; N -0.1890,Plg69.0000°,Azm174.0000°; P -3.5650,Plg21.0000°,Azm357.0000° $M_0$3.66100×10^{16}
MEX Error ellipse: s-maj=3.7km s-min=5.2km az=-1.0.
IDC I 03 18 12 41.8–1.4 25.99N 110.31W 0 4.1s,4.1
¶17189352
IDC Error ellipse: s-maj=59.5km s-min=18.9km az=86.0.
ISC I 03 20 25 30.9–1.2 26.17N–.05 110.51W–.06 15 12 2-45
ISCJB I 03 20 25 29.7–.55 26.19N–.03 110.44W–.05 15 3.7s,3.0b ¶17189360
IDC I 03 20 25 33.5–1.4 25.80N 110.02W 0 3.9L,3.7
MEX I 03 20 25 33.2–.38 26.19N 110.46W 8–6 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.5km az=162.2.
IDC Error ellipse: s-maj=27.5km s-min=12.5km az=108.0.
MEX Error ellipse: s-maj=2.7km s-min=3.1km az=-1.0.
ISC I 05 19 20 48.1–.46 24.69N–.04 109.33W–.04 10 4.4b,3.9s 98 1-99
ISCJB I 05 19 20 47.5–.36 24.66N–.03 109.22W–.04 10 4.3b,3.9s ¶16031106
IDC I 05 19 20 47.3–.59 24.64N 109.28W 0 4.2,4.2b
NEIC I 05 19 20 48.9–.53 24.62N 109.14W 10 4.3b,4.2b
MEX I 05 19 20 53.7–.40 24.36N 109.44W 4–9 4.7,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=145.1.
IDC Error ellipse: s-maj=12.6km s-min=9.9km az=141.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.4km az=224.0.
MEX Error ellipse: s-maj=3.7km s-min=2.8km az=-1.0.
ISC I 09 00 38 27.3–.54 25.38N–.03 109.90W–.06 10 4.3b,3.4s 62 1-100
IDC I 09 00 38 25.2–1.2 25.40N 109.73W 0 3.9,3.8 ¶15927193
ISCJB I 09 00 38 26.7–.36 25.44N–.03 109.81W–.05 10 4.2b,3.4s
NEIC I 09 00 38 27.5–.58 25.29N 109.74W 10 4.1b,3.4s
MEX I 09 00 38 28.2–.51 25.62N 110.00W 10 4.4,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=17.0km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.9km az=175.8.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.3km az=74.0.
MEX Error ellipse: s-maj=3.0km s-min=3.2km az=-1.0.
ISC I 11 16 15 35.9–.45 27.31N–.04 111.53W–.04 10 4.6b,4.1s 85 1-126
ECX I 11 16 15 33.8–.27 27.41N 111.49W 10 4.6,4.1s ¶15928074
NEIC I 11 16 15 35.4–.54 27.15N 111.55W 10 4.5b,4.1s
IDC I 11 16 15 35.8–.66 27.46N 111.08W 0 4.4,4.4b
ISCJB I 11 16 15 35.2–.35 27.20N–.03 111.25W–.05 10 4.5b,4.1s
MOS I 11 16 15 36.8–1.7 27.37N 111.18W 10 4.7b,4.1s
MEX I 11 16 15 36.0–.41 27.27N 111.57W 14–7 4.5,4.1s
ISC Event type se.
ECX Error ellipse: s-maj=2.0km s-min=3.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.9km az=224.0.
IDC Error ellipse: s-maj=19.3km s-min=10.5km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.9km az=154.3.
MOS Error ellipse: s-maj=12.8km s-min=8.1km az=97.9.
MEX Error ellipse: s-maj=2.6km s-min=2.5km az=-1.0.
ISC I 11 16 38 49.9–.80 27.24N–.07 111.56W–.05 10 3.9s,3.8b 23 1-98
ISCJB I 11 16 38 49.4–.65 27.31N–.06 111.52W–.06 10 3.9s,3.8b ¶15998106
NEIC I 11 16 38 50.6–1.3 27.10N 111.55W 10 4.4b,4.3
IDC I 11 16 38 52.0–1.6 27.45N 111.14W 0 4.0,3.9
MEX I 11 16 38 53.7–.43 27.33N 111.73W 16–10 4.3,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.9km az=160.5.
NEIC Event type se. Error ellipse: s-maj=20.5km s-min=13.1km az=203.0.
IDC Error ellipse: s-maj=30.4km s-min=15.8km az=45.0.
MEX Error ellipse: s-maj=6.0km s-min=4.3km az=-1.0.
ISC I 12 02 09 24.6–.59 27.15N–.04 111.53W–.04 10 3.6b 47 1-44
ISCJB I 12 02 09 22.9–.51 27.04N–.04 111.43W–.04 10 3.6b,3.5s ¶16151122
NEIC I 12 02 09 24.3–.90 27.05N 111.43W 10 4.4,3.8b
MEX I 12 02 09 25.8–.71 27.14N 111.57W 16–15 4.4,3.8b
IDC I 12 02 09 27.0–1.4 27.41N 111.05W 0 3.8,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=27.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.8km az=41.0.
MEX Error ellipse: s-maj=6.0km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=19.9km s-min=13.6km az=32.0.
ISC I 12 02 33 54.9–.56 27.02N–.03 111.57W–.04 10 4.4b 92 1-64
NEIC I 12 02 33 55.0–.77 27.05N 111.47W 10 4.3b ¶15928078
IDC I 12 02 33 57.6–1.3 27.42N 111.16W 0 4.0,3.9b
MEX I 12 02 33 57.3–1.1 27.21N 111.63W 14–35 3.6,3.9b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.5km az=38.0.
IDC Error ellipse: s-maj=20.0km s-min=13.6km az=33.0.
MEX Error ellipse: s-maj=17.7km s-min=15.9km az=-1.0.
ISC I 12 02 38 14.4–.40 27.23N–.04 111.50W–.03 10 4.8b,4.3s 136 1-121
ISCJB I 12 02 38 12.3–.33 27.01N–.03 111.43W–.04 10 4.7b,4.3s ¶15919549
GCMT I 12 02 38 13.6–.30 27.12N 111.44W 17–1 5.0W,4.3s
BJI I 12 02 38 13.1 26.80N 111.40W 10 5.2b,5.2s
IDC I 12 02 38 13.4–.59 27.31N 111.21W 0 4.4,4.3
NEIC I 12 02 38 13.6–.47 27.01N 111.41W 10 4.7b,4.5
MEX I 12 02 38 15.7–.64 27.28N 111.65W 14–14 4.5,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=45.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c39; s101,c149; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42±.12 $M_{\theta\theta}$-3.55±.12; $M_{\phi\phi}$3.97±.13; $M_{r\theta}$-0.71±.28; $M_{\theta\phi}$-0.41±.09; $M_{\phi r}$0.10±.27; Best double couple: NP1:ϕ_s133.00000°,δ83.00000°,λ-170.00000°. NP2:ϕ_s41.00000°,δ80.00000°,λ-7.00000°. Principal axes: T 3.9970,Plg2.0000°,Azm267.0000°; N -0.2810,Plg78.0000°,Azm168.0000°; P -3.7210,Plg12.0000°,Azm357.0000° $M_0$3.85900×10^{16}
IDC Error ellipse: s-maj=15.4km s-min=8.9km az=58.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=48.0. Felt [III] at Mulege. Also felt at Santa Rosalia.
MEX Error ellipse: s-maj=5.9km s-min=4.7km az=-1.0.
MEX I 12 09 33 10.6–.59 27.14N 111.68W 15 3.9
¶601136773
MEX Error ellipse: s-maj=6.8km s-min=5.1km az=-1.0.
MEX I 12 13 26 26.0–.39 27.03N 111.44W 12–15 4.1
¶601136775
MEX Error ellipse: s-maj=10.4km s-min=9.5km az=-1.0.
ISC I 12 17 28 54.5–1.1 27.02N–.06 111.43W–.06 10 15 1-5
ISCJB I 12 17 28 53.4–.85 27.02N–.07 111.37W–.05 10 ¶16032758
NEIC I 12 17 28 55.7–1.6 27.11N 111.45W 10 4.2
MEX I 12 17 28 57.2–.29 26.97N 111.44W 13–7 4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.4km az=19.4.
NEIC Event type se. Error ellipse: s-maj=22.2km s-min=11.5km az=188.0.

MEX Error ellipse: s-maj=6.2km s-min=3.7km az=-1.0.
ISC I 13 11 32 47.6–1.1 27.22N–.08 111.53W–.05 10 21 1-44
ISCJB I 13 11 32 45.9–.75 27.11N–.07 111.50W–.05 10 3.7s,3.3b ¶16151237
NEIC I 13 11 32 50.2 27.20N 111.58W 16 4.0,3.3b
MEX I 13 11 32 50.2–2.0 27.20N 111.58W 16–38 4.0,3.3b
IDC I 13 11 32 58.2–3.5 28.06N 110.73W 0 3.6,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.6km az=15.8.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=22.9km s-min=13.1km az=-1.0.
IDC Error ellipse: s-maj=54.8km s-min=15.5km az=18.0.
MEX I 13 11 52 54.8–.47 27.12N 111.48W 8–7 3.9
¶601136781

MEX Error ellipse: s-maj=5.6km s-min=2.9km az=-1.0.
MEX I 13 13 01 15.2–.34 27.21N 111.55W 16–10 3.6
¶601136782

MEX Error ellipse: s-maj=12.9km s-min=5.9km az=-1.0.
MEX I 15 09 02 20.4–.50 27.61N 111.51W 16–8 3.7
¶601136786

MEX Error ellipse: s-maj=5.6km s-min=4.6km az=-1.0.
MEX I 16 11 55 50.8–.45 31.12N 114.23W 16–144 4.1
¶601136788

MEX Error ellipse: s-maj=7.3km s-min=31.6km az=-1.0.
MEX I 16 12 26 27.8–.49 27.46N 111.63W 16–8 3.8
¶601136789

MEX Error ellipse: s-maj=7.1km s-min=5.1km az=-1.0.
MEX I 16 19 11 08.3–.67 27.56N 111.62W 10 3.4
¶601136790

MEX Error ellipse: s-maj=3.8km s-min=4.0km az=-1.0.
MEX II 06 19 49 21.0–.64 27.95N 111.97W 11–16 3.4
¶601136947

MEX Error ellipse: s-maj=13.7km s-min=10.5km az=-1.0.
IDC II 13 21 23 48.1–2.0 25.16N 109.07W 0 3.4,3.3L
¶17192173

IDC Error ellipse: s-maj=42.3km s-min=15.5km az=137.0.
MEX II 21 13 04 36.5–.75 27.89N 111.88W 11–11 4.1
¶601137075

MEX Error ellipse: s-maj=4.0km s-min=3.7km az=-1.0.
ISC II 22 09 32 32.1–.96 23.7N–.10 108.95W–.04 10 3.4b 15 1-48
IDC II 22 09 32 25.9–4.1 23.18N 108.62W 0 3.6,3.5 ¶16398739
ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=26.6km az=5.0.
ISC II 22 09 33 03.4–2.6 23.6N–.20 108.6W–.10 10 3.9b 43 2-48
MEX II 22 09 32 40.2–.93 23.90N 109.23W 13 4.1 ¶17192695
IDC II 22 09 32 51.1–6.7 23.39N 108.63W 0 3.7,3.6
ISCJB II 22 09 33 02.5–1.4 23.7N–.10 108.51W–.08 10 3.8b,3.6
NEIC II 22 09 33 03.8–1.5 23.60N 108.58W 10 4.0b,3.6
ISC Event type se.
MEX Error ellipse: s-maj=21.6km s-min=15.5km az=-1.0.
IDC Error ellipse: s-maj=106.1km s-min=48.8km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=20.7km s-min=6.4km az=25.5.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=8.6km az=201.0.
ISC II 22 14 54 17.0–5.1 23.8N–.50 108.9W–.20 10 8 1-48
IDC II 22 14 54 14.1–5.9 23.65N 108.69W 0 3.6,3.5 ¶17192709
ISC Event type ke.
IDC Error ellipse: s-maj=94.6km s-min=30.0km az=162.0.
ISC II 23 14 57 43.9–.80 25.71N–.04 110.08W–.05 10 3.6b,3.5s 29 2-86
ISCJB II 23 14 57 42.5–.54 25.71N–.04 109.94W–.06 10 3.6s,3.5b ¶16398803
IDC II 23 14 57 42.7–1.2 25.52N 109.77W 0 3.8,3.7
NEIC II 23 14 57 44.5–.85 25.63N 109.89W 10 4.4,3.7
MEX II 23 14 57 45.5–.26 25.79N 110.04W 6–6 4.4,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.5km az=169.0.
IDC Error ellipse: s-maj=21.7km s-min=14.4km az=114.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=9.9km az=75.0.
MEX Error ellipse: s-maj=2.1km s-min=2.4km az=-1.0.
MEX II 24 05 57 38.6–.28 24.88N 109.38W 13 4.1
¶601137103

MEX Error ellipse: s-maj=5.9km s-min=11.5km az=-1.0.
MEX II 24 08 20 10.2–.55 24.10N 109.04W 16–26 3.9
¶601137104

MEX Error ellipse: s-maj=16.8km s-min=28.2km az=-1.0.
MEX II 24 08 55 38.7–.35 24.22N 109.32W 15 3.6
¶601137105

MEX Error ellipse: s-maj=4.5km s-min=8.0km az=-1.0.
MEX II 24 11 26 32.6–.37 31.03N 114.45W 16–13 3.7
¶601137107

MEX Error ellipse: s-maj=22.4km s-min=8.5km az=-1.0.
MEX II 28 01 58 50.1–.67 27.83N 111.84W 8–12 4.0
NEIC II 28 01 58 50.1 27.83N 111.84W 8 4.0 ¶16339065
MEX Error ellipse: s-maj=9.6km s-min=7.6km az=-1.0.
NEIC Event type se. After MEX.
IDC III 06 17 15 43.1–3.0 24.70N 108.67W 0 3.7,3.6L
¶17193366

IDC Error ellipse: s-maj=54.8km s-min=15.5km az=143.0.
IDC III 12 09 25 58.3–1.3 25.22N 109.70W 0 3.7L,3.6
¶17194347

IDC Error ellipse: s-maj=36.2km s-min=11.2km az=118.0.
IDC III 12 11 09 53.8–2.8 25.20N 109.72W 0 3.8,3.5
¶17194382

IDC Error ellipse: s-maj=79.6km s-min=12.7km az=105.0.
IDC III 12 11 13 23.1–3.4 25.56N 109.17W 0 3.9,3.7
¶17194383

IDC Error ellipse: s-maj=82.1km s-min=19.5km az=107.0.
IDC III 12 11 14 11.8–3.5 25.10N 109.51W 0 4.3,4.3s
¶17194387

IDC Error ellipse: s-maj=84.2km s-min=12.6km az=112.0.
ISC III 12 11 15 21.9–1.3 25.2N–.10 109.4W–.20 17 4.1b 23 1-85
IDC III 12 11 15 19.3–1.6 25.26N 109.59W 0 4.3,4.2b ¶16425381
NEIC III 12 11 15 19.5–.96 25.07N 109.21W 10 4.3b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=50.6km s-min=11.8km az=110.0.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=7.6km az=121.0.
IDC III 12 11 16 24.8–3.7 25.05N 109.42W 0 3.8,3.6
¶17194388

IDC Error ellipse: s-maj=86.0km s-min=13.5km az=116.0.
IDC III 12 11 18 03.6–3.2 25.15N 109.47W 0 3.8,3.5
¶17194389

IDC Error ellipse: s-maj=79.0km s-min=13.5km az=112.0.
ISC III 12 11 22 00.3–.69 25.18N–.05 109.77W–.10 10 4.6b 48 1-87
MEX III 12 11 21 40.9–.23 24.34N 107.94W 10 4.0 ¶16425382
IDC III 12 11 21 58.6–1.0 25.27N 109.73W 0 4.3b,4.2
ISCJB III 12 11 21 59.1–.54 25.21N–.05 109.77W–.08 10 4.5b,4.2
NEIC III 12 11 22 00.4–.59 25.15N 109.76W 10 4.4b,4.2
ISC Event type se.
MEX Error ellipse: s-maj=2.3km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=10.9km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.1km az=179.7.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=83.0.
IDC III 12 11 27 04.5–5.1 24.67N 109.21W 0 3.9,3.7
¶17194392

IDC Error ellipse: s-maj=94.8km s-min=18.8km az=127.0.
ISC III 12 11 30 27.2–1.8 25.0N–.20 109.5W–.40 17 4.0b 9 1-85
ISCJB III 12 11 30 26.1–1.7 25.1N–.10 109.5W–.30 17 4.1b ¶17194394
IDC III 12 11 30 26.1–1.9 25.20N 109.66W 0 4.3,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.9km s-min=12.4km az=19.2.
IDC Error ellipse: s-maj=60.1km s-min=11.3km az=108.0.
ISC III 12 11 33 54.2–1.5 25.1N–.10 109.7W–.30 17 5.1s,4.0b 9 1-85
IDC III 12 11 33 52.4–1.5 25.24N 109.81W 0 5.0,5.0s ¶16461445
ISCJB III 12 11 33 53.3–1.3 25.2N–.10 109.6W–.30 17 5.0s,4.1b

ISC Event type ke.
ISCJB Event type ke.
IDC III 12 11 44 38.5–2.8 25.23N 109.75W 0 4.1,3.8
¶17194397

IDC Error ellipse: s-maj=86.1km s-min=11.2km az=103.0.
MEX III 12 11 49 51.9–.48 25.33N 110.00W 14–6 4.0
NEIC III 12 11 49 51.9 25.33N 110.00W 14 4.0 ¶16476691
MEX Error ellipse: s-maj=2.1km s-min=2.8km az=-1.0.
NEIC Event type se. After MEX.
IDC III 12 12 16 02.6–1.4 25.26N 109.71W 0 4.0,4.0
¶17194412

IDC Error ellipse: s-maj=40.1km s-min=12.0km az=108.0.
ISC III 12 12 31 48.6–.80 25.12N–.08 109.78W–.09 10 4.4b 237 1-61
IDC III 12 12 31 45.9–1.2 25.26N 109.66W 0 4.0,3.7 ¶16476692
NEIC III 12 12 31 47.8–.68 25.11N 109.73W 10 4.3b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=11.0km az=114.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.2km az=112.0.
ISC III 12 12 40 53.5–1.0 25.17N–.09 109.8W–.20 10 3.9b 10 1-46
ISCJB III 12 12 40 51.9–.94 25.18N–.09 109.8W–.20 10 3.8b ¶17194421
IDC III 12 12 40 52.4–1.3 25.26N 109.87W 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=10.7km az=20.4.
IDC Error ellipse: s-maj=27.1km s-min=15.5km az=115.0.
ISC III 12 12 52 02.6–.71 24.92N–.05 109.98W–.06 10 4.4b 147 1-46
MEX III 12 12 51 48.2–.25 24.17N 108.60W 10 3.8 ¶16442331
ISCJB III 12 12 52 01.9–.48 25.01N–.04 109.98W–.04 10 4.3b,4.0s
IDC III 12 12 52 02.9–1.0 25.24N 109.68W 0 4.3,4.1b
NEIC III 12 12 52 06.0–.60 25.19N 110.21W 10 4.3b,4.1b
ISC Event type se.
MEX Error ellipse: s-maj=2.4km s-min=3.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.2km az=25.3.
IDC Error ellipse: s-maj=21.5km s-min=10.6km az=113.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.1km az=63.0.
ISC III 12 12 53 22.8–.66 25.14N–.06 110.10W–.07 10 4.9b 251 1-94
ISCJB III 12 12 53 19.8–.56 25.12N–.05 110.05W–.03 10 4.8b,3.9s ¶16442332
IDC III 12 12 53 20.9–1.1 25.24N 109.67W 0 4.2,4.2s
NEIC III 12 12 53 23.4–.55 25.17N 109.89W 10 4.6b,4.2s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.4km az=26.9.
IDC Error ellipse: s-maj=25.2km s-min=10.7km az=114.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.6km az=79.0.
ISC III 12 13 10 27.5–.71 24.89N–.06 109.35W–.08 10 4.3b 48 1-50
IDC III 12 13 10 25.2–1.0 24.94N 109.29W 0 4.0,3.9 ¶16476693
NEIC III 12 13 10 31.2–.87 24.90N 110.10W 10 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=10.3km az=130.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.9km az=77.0.
IDC III 12 13 16 05.4–6.6 25.45N 109.47W 0 3.6,3.5
¶17194431

IDC Error ellipse: s-maj=78.3km s-min=28.0km az=175.0.
ISC III 12 13 25 58.8–.41 25.18N–.04 109.89W–.05 10 5.3b,5.2s 180 1-143
IDC III 12 13 25 56.9–.55 25.14N 109.69W 0 5.0,4.9s ¶16314239
ISCJB III 12 13 25 57.9–.21 25.21N–.02 109.84W–.03 10 5.4s,5.2b
GCMT III 12 13 25 59.8–.30 25.27N 109.97W 21–1 5.6W,5.2b
NEIC III 12 13 25 59.8–2.3 25.21N 109.82W 13–15 5.3b,5.2s
MEX III 12 13 25 59.8–.35 25.35N 109.93W 14–5 5.2,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=8.9km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=150.9.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c35; s112,c190; Duration: 1♯5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10±.10 $M_{\theta\theta}$-2.69±.09; $M_{\phi\phi}$2.80±.09; $M_{r\theta}$-0.28±.17; $M_{\theta\phi}$-0.90±.07; $M_{\phi r}$0.44±.17; Best double couple: NP1:ϕ_s306.00000°,δ87.00000°,λ171.00000°. NP2:ϕ_s36.00000°,δ81.00000°,λ3.00000°. Principal axes: T 3.0160,Plg9.0000°,Azm261.0000°; N -0.1620,Plg80.0000°,Azm108.0000°; P -2.8480,Plg4.0000°,Azm351.0000° M_o2.93200×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.2km az=218.0.
MEX Error ellipse: s-maj=1.8km s-min=2.3km az=-1.0.
ISC III 12 13 32 22.5–1.0 25.3N–.10 109.6W–.20 11 4.2b 10 1-85
IDC III 12 13 32 20.5–1.3 25.33N 109.47W 0 4.3,4.0 ¶17194437
ISCJB III 12 13 32 22.4–.87 25.30N–.09 109.8W–.20 11 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 13 57 13.2–1.0 25.05N–.09 109.76W–.07 10 4.5b 204 1-89
IDC III 12 13 57 15.1–.81 25.54N 109.75W 0 5.5,5.3s ¶16477000
NEIC III 12 13 57 17.2–.61 25.47N 109.70W 10 5.5,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=10.9km az=104.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.4km az=57.0.
ISC III 12 14 11 04.0–.64 25.42N–.04 109.74W–.05 16–3 5.2b,4.8s 448 1-139
ISCJB III 12 14 11 00.7–.92 25.39N–.02 109.69W–.02 2–6 5.1b,4.8s ¶16310182
IDC III 12 14 11 01.8–.57 25.54N 109.56W 0 4.8,4.8s
BJI III 12 14 11 02.9 25.40N 109.70W 12 5.7b,5.5
MEX III 12 14 11 02.7–.45 25.58N 109.81W 12–5 5.2,5.5
NEIC III 12 14 11 03.0–.31 25.32N 109.74W 10 5.3b,5.2
GCMT III 12 14 11 03.0–.30 25.65N 109.80W 12 5.4W,5.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=34.0.
IDC Error ellipse: s-maj=17.5km s-min=10.4km az=57.0.
MEX Error ellipse: s-maj=1.9km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=222.0. Felt [II] at Los Mochis, Sinaloa. Also felt at Guasave and Topolobampo.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s97,c151; Duration: 1♯2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.51±.04 $M_{\theta\theta}$0.08±.04; $M_{\phi\phi}$1.44±.04; $M_{r\theta}$0.43±.18; $M_{\theta\phi}$0.30±.04; $M_{\phi r}$-0.52±.14; Best double couple: NP1:ϕ_s355.00000°,δ55.00000°,λ-110.00000°. NP2:ϕ_s207.00000°,δ39.00000°,λ-64.00000°. Principal axes: T 1.5630,Plg8.0000°,Azm99.0000°; N 0.1660,Plg16.0000°,Azm7.0000°; P -1.7220,Plg72.0000°,Azm215.0000° M_o1.64300×10^{17}
ISC III 12 14 19 17.8–1.3 25.2N–.10 109.6W–.10 17 7 1-46
IDC III 12 14 19 15.4–1.3 25.19N 109.58W 0 4.2,3.9b ¶17194451
ISCJB III 12 14 19 16.6–1.1 25.3N–.10 109.6W–.10 17 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 25 50.0–1.5 25.1N–.20 109.3W–.10 16 7 1-38
IDC III 12 14 25 47.6–1.6 25.06N 109.24W 0 4.0,3.7 ¶17194452
ISCJB III 12 14 25 48.6–1.3 25.0N–.10 109.2W–.10 16 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 31 15.8–1.4 25.0N–.10 109.6W–.10 17 8 1-46
IDC III 12 14 31 14.3–1.6 25.10N 109.68W 0 3.8,3.7L ¶17194459
ISCJB III 12 14 31 14.7–1.1 25.0N–.10 109.5W–.10 17 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 42 43.8–.87 25.26N–.08 109.5W–.10 11 42 1-37
ISCJB III 12 14 42 42.0–.84 25.22N–.07 109.52W–.08 11 3.7b ¶16476694
IDC III 12 14 42 42.0–1.5 25.37N 109.57W 0 4.2,4.2s
NEIC III 12 14 42 44.2–.74 25.25N 109.54W 10 4.2,4.2s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=8.8km az=37.5.
IDC Error ellipse: s-maj=30.7km s-min=21.2km az=111.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.1km az=106.0.
ISC III 12 15 11 21.0–1.6 25.1N–.10 109.84W–.09 10 4.1b 103 1-46
IDC III 12 15 11 21.1–1.7 25.29N 109.45W 0 3.9,3.7 ¶16476695
NEIC III 12 15 11 23.9–1.0 25.32N 109.85W 10 3.9,3.7
ISC Event type se.
IDC Error ellipse: s-maj=34.4km s-min=17.7km az=128.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=12.1km az=108.0.
ISC III 12 15 17 35.4–1.7 25.1N–.20 109.3W–.20 17 7 1-46
ISCJB III 12 15 17 33.8–1.4 25.1N–.10 109.2W–.20 17 3.7b ¶17194471

IDC III 12 15 17 33.5–1.8 25.15N 109.39W 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.1km s-min=13.5km az=36.6.
IDC Error ellipse: s-maj=32.8km s-min=17.4km az=129.0.
ISC III 12 15 39 31.6–.89 25.33N–.07 110.0W–.10 10 4.5s,4.0b 47 1-71
IDC III 12 15 39 29.1–1.6 25.27N 109.50W 0 4.4,4.4s **¶16476697**
ISCJB III 12 15 39 31.3–.63 25.44N–.05 109.95W–.08 10 4.5s,3.9b
NEIC III 12 15 39 32.8–.78 25.36N 109.87W 10 4.5s,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=17.3km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.2km az=11.8.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.2km az=96.0.
IDC III 12 16 01 01.5–9.9 24.77N 109.37W 0 3.9s,3.9
¶17194488
IDC Error ellipse: s-maj=139.5km s-min=42.8km az=10.0.
IDC III 12 16 01 17.2–21 23.06N 108.95W 0 3.8,3.6L
¶17194492
IDC Error ellipse: s-maj=269.1km s-min=32.0km az=2.0.
ISC III 12 17 13 00.5–.36 25.46N–.03 109.86W–.05 10 5.2b,4.4s 691 1-140
IDC III 12 17 12 58.1–.61 25.40N 109.76W 0 4.4,4.4s **¶16310830**
ISCJB III 12 17 12 59.2–.27 25.44N–.03 109.72W–.02 10 5.0b,4.4s
GCMT III 12 17 13 00.6–.30 25.55N 109.87W 12 5.2W,4.4s
MEX III 12 17 13 00.7–.72 25.58N 109.85W 16–8 4.6,4.4s
NEIC III 12 17 13 00.6–.46 25.38N 109.70W 10 5.1b,4.4s
MOS III 12 17 13 00.4–1.6 25.58N 109.58W 10 5.3b,4.4s
BJI III 12 17 13 02.0 25.50N 109.70W 10 5.6b,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=11.9km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.1km az=12.9.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c33; s91,c149; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.02 $M_{\theta\theta}$-0.01±.02; $M_{\phi\phi}$0.70±.02; $M_{r\theta}$-0.18±.08; $M_{\theta\phi}$0.20±.02; $M_{\phi r}$0.19±.07; Best double couple: NP1:ϕ_s178.00000°,δ53.00000°,λ-111.00000°. NP2:ϕ_s31.00000°,δ42.00000°,λ-65.00000°. Principal axes: T 0.7710,Plg5.0000°,Azm283.0000°; N 0.0090,Plg17.0000°,Azm192.0000°; P -0.7800,Plg72.0000°,Azm31.0000° $M_0$0.77500×10^{17}
MEX Error ellipse: s-maj=3.2km s-min=3.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.5km az=210.0.
MOS Error ellipse: s-maj=8.5km s-min=4.5km az=97.1.
ISC III 12 17 54 15.7–.46 25.48N–.04 109.85W–.07 10 4.8b,4.3s 388 1-128
ISCJB III 12 17 54 13.9–.28 25.42N–.03 109.71W–.02 10 4.7b,4.3s **¶16310199**
IDC III 12 17 54 13.2–.85 25.45N 109.57W 0 4.4s,4.4
MEX III 12 17 54 14.9–.66 25.59N 109.84W 10 4.2,4.4
NEIC III 12 17 54 15.4–.56 25.39N 109.72W 10 4.7b,4.4
BJI III 12 17 54 18.2 25.50N 109.80W 14 5.1b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=10.5.
IDC Error ellipse: s-maj=17.7km s-min=14.8km az=106.0.
MEX Error ellipse: s-maj=2.5km s-min=3.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.6km az=218.0.
ISC III 12 19 56 58.4–.79 25.51N–.03 109.89W–.06 10 21 1-37
ISCJB III 12 19 56 56.2–.56 25.61N–.03 109.80W–.06 10 3.1b **¶16477148**
IDC III 12 19 56 58.9–1.6 25.41N 109.55W 0 3.6L,3.5
NEIC III 12 19 57 01.4 25.60N 109.83W 10 3.6L,3.5
MEX III 12 19 57 01.4–.54 25.60N 109.83W 10 4.4,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.5km az=5.0.
IDC Error ellipse: s-maj=40.3km s-min=16.5km az=130.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=2.8km s-min=2.8km az=-1.0.
ISC III 12 20 16 55.9–.61 25.35N–.05 109.54W–.08 10 4.5b,4.3s 95 1-86
IDC III 12 20 16 55.0–1.2 25.38N 109.55W 0 4.3,4.3s **¶16327695**
NEIC III 12 20 16 56.3–.75 25.33N 109.47W 10 4.3,4.3b
MEX III 12 20 16 56.7–.37 25.54N 109.75W 3–4 4.3,4.3b
GCMT III 12 20 16 56.3–.50 25.54N 109.87W 21–1 5.0W,4.3b
ISCJB III 12 20 16 56.3–.37 25.38N–.03 109.65W–.05 10 4.3b,4.2s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c13; s68,c101;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.44±.22 $M_{\theta\theta}$-3.42±.19; $M_{\phi\phi}$3.86±.21; $M_{r\theta}$-0.66±.30; $M_{\theta\phi}$-0.91±.15; $M_{\phi r}$1.31±.33; Best double couple: NP1:ϕ_s308.00000°,δ86.00000°,λ162.00000°. NP2:ϕ_s39.00000°,δ72.00000°,λ5.00000°. Principal axes: T 4.3700,Plg16.0000°,Azm262.0000°; N -0.7560,Plg71.0000°,Azm115.0000°; P -3.6170,Plg10.0000°,Azm355.0000° $M_0$3.99300×10^{16}
ISCJB Event type se.
ISC III 12 21 11 21.1–1.2 25.3N–.10 109.5W–.20 11 8 1-46
ISCJB III 12 21 11 19.5–1.0 25.36N–.10 109.5W–.20 11 3.5s,3.3b **¶17194608**
IDC III 12 21 11 20.6–1.2 25.52N 109.70W 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.9km s-min=10.6km az=24.5.
IDC Error ellipse: s-maj=29.4km s-min=10.8km az=113.0.
ISC III 12 21 58 38.0–.69 25.24N–.07 109.72W–.09 10 4.6b 235 1-43
MEX III 12 21 58 24.4–.72 25.48N 110.40W 5–10 4.4 **¶16449545**
IDC III 12 21 58 34.8–1.4 25.21N 109.37W 0 4.4,4.2b
ISCJB III 12 21 58 36.8–.46 25.28N–.04 109.76W–.03 10 4.5b,3.6s
NEIC III 12 21 58 38.3–.54 25.24N 109.82W 10 4.5b,4.4
ISC Event type fe.
MEX Error ellipse: s-maj=3.4km s-min=5.4km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=11.5km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.9km az=12.5.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.5km az=219.0. Felt at Los Mochis, Sinaloa.
ISC III 13 02 50 07.8–.49 25.44N–.04 109.71W–.06 10 4.7b 394 1-98
MEX III 13 02 50 04.0–.87 25.79N 109.92W 10 4.3 **¶16310886**
IDC III 13 02 50 05.8–.74 25.40N 109.86W 0 4.2,4.2b
ISCJB III 13 02 50 06.7–.24 25.39N–.02 109.73W–.02 10 4.6b,4.2b
NEIC III 13 02 50 08.0–.35 25.30N 109.77W 10 4.6b,4.3
ISC Event type se.
MEX Error ellipse: s-maj=3.5km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=10.7km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.6km az=29.2.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=49.0.
ISC III 13 03 11 44.5–.94 25.53N–.03 109.95W–.05 10 18 1-17
ISCJB III 13 03 11 41.3–.52 25.57N–.03 109.91W–.06 10 **¶17194685**
MEX III 13 03 11 46.1–.72 25.54N 109.96W 10 4.1
IDC III 13 03 11 46.6–2.0 25.28N 109.34W 0 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.1km az=167.1.
MEX Error ellipse: s-maj=4.1km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=34.3km s-min=18.5km az=132.0.
ISC III 13 05 54 24.4–1.2 25.4N–.10 109.4W–.10 11 8 2-24
MEX III 13 05 54 03.8–.41 25.79N 110.62W 8–6 4.2 **¶16442354**
ISCJB III 13 05 54 23.3–1.1 25.46N–.10 109.3W–.10 11 3.8b,3.5s
IDC III 13 05 54 23.3–1.8 25.50N 109.54W 0 3.9b,3.9
ISC Event type ke.
MEX Error ellipse: s-maj=2.3km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=11.1km az=42.6.
IDC Error ellipse: s-maj=29.0km s-min=18.5km az=129.0.
ISC III 13 07 39 13.5–.64 25.30N–.05 109.68W–.07 11 4.0b 263 1-46
IDC III 13 07 39 11.9–1.3 25.38N 109.57W 0 4.1,3.9 **¶16449558**
ISCJB III 13 07 39 12.4–.39 25.35N–.04 109.77W–.03 11 3.9b,3.7s
NEIC III 13 07 39 13.7–.69 25.40N 109.68W 10 4.0b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=22.5km s-min=17.4km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=13.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.7km az=77.0.
ISC III 13 08 35 35.8–1.1 25.64N–.08 109.52W–.07 11 4.3s,3.6b 45 2-46
IDC III 13 08 35 31.2–1.4 25.29N 109.48W 0 4.3,4.3s **¶16449559**
NEIC III 13 08 35 32.8–.93 25.33N 109.52W 10 4.3b,4.3s
GCMT III 13 08 35 32.8–.40 25.63N 109.79W 26–1 5.0W,4.3s
ISCJB III 13 08 35 34.7–.91 25.67N–.08 109.50W–.06 11 4.3s,3.9b
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s14,c17; s59,c92;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.95±.23 $M_{\theta\theta}$-2.95±.16; $M_{\phi\phi}$3.90±.19; $M_{r\theta}$-0.28±.29; $M_{\theta\phi}$-1.07±.13; $M_{\phi r}$0.65±.31; Best double couple: NP1:ϕ_s306.00000°,δ88.00000°,λ171.00000°. NP2:ϕ_s37.00000°,δ81.00000°,λ2.00000°. Principal axes: T 4.1550,Plg8.0000°,Azm261.0000°; N -1.0290,Plg81.0000°,Azm114.0000°; P -3.1280,Plg5.0000°,Azm352.0000° $M_0$3.64200×10^{16}
ISCJB Event type se.
ISC III 13 16 07 35.0–.47 25.41N–.04 109.85W–.05 10 4.7b,3.8s 547 1-115
IDC III 13 16 07 33.4–.71 25.45N 109.74W 0 4.3,4.3b **¶16310956**
ISCJB III 13 16 07 33.8–.26 25.37N–.02 109.73W–.02 10 4.5b,4.0s
NEIC III 13 16 07 34.9–.33 25.32N 109.77W 10 4.6b,4.5
MEX III 13 16 07 36.7–.57 25.56N 109.77W 10 4.5,4.5
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=12.0km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=24.3.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.8km az=52.0.
MEX Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.
ISC III 13 16 34 22.3–1.2 25.3N–.10 109.6W–.20 10 6 1-37
ISCJB III 13 16 34 20.4–1.0 25.32N–.10 109.6W–.20 10 3.7s,3.1b **¶17194923**
IDC III 13 16 34 21.3–1.7 25.47N 109.78W 0 3.8,3.8s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=11.1km az=23.4.
IDC Error ellipse: s-maj=30.3km s-min=19.2km az=125.0.
ISC III 13 22 43 47.7–.61 25.21N–.05 109.60W–.07 11 4.2b 214 1-87
IDC III 13 22 43 45.9–1.2 25.46N 109.54W 0 3.9L,3.9 **¶16477264**
ISCJB III 13 22 43 47.9–.48 25.29N–.04 109.62W–.03 11 4.1b,3.9s
NEIC III 13 22 43 48.0–.65 25.26N 109.55W 10 4.2b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=15.5km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.2km az=15.5.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.5km az=88.0.
ISC III 14 01 43 48.9–.58 25.47N–.03 109.75W–.04 10 4.0b 78 1-46
ISCJB III 14 01 43 47.7–.38 25.49N–.03 109.84W–.06 10 4.0b **¶16449600**
IDC III 14 01 43 48.2–1.3 25.12N 109.30W 0 4.1,3.9b
NEIC III 14 01 43 49.3–.65 25.42N 109.77W 10 4.1,4.0b
MEX III 14 01 43 49.7–.61 25.56N 109.80W 4–8 4.1,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.9km az=2.5.
IDC Error ellipse: s-maj=28.0km s-min=11.0km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=7.7km az=76.0. Felt at Los Mochis, Sinaloa.
MEX Error ellipse: s-maj=3.1km s-min=3.1km az=-1.0.
ISC III 14 06 30 02.7–1.1 31.94N–.02 114.99W–.03 17–9 44 0-6
ISCJB III 14 06 30 02.8–.51 31.95N–.03 114.94W–.03 26–5 **¶16495323**
ECX III 14 06 30 03.8–.62 31.96N 115.06W 10 3.7L,3.5
NEIC III 14 06 30 03.8 31.96N 115.06W 10 3.7L,3.6L
MEX III 14 06 30 04.7–.94 32.00N 114.90W 8–12 3.9,3.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=4.2km az=16.1.
ECX Error ellipse: s-maj=1.4km s-min=2.6km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=8.0km s-min=14.0km az=-1.0.
IDC III 14 11 47 24.2–4.7 27.55N 111.46W 0 3.6,3.5L
¶17195150
IDC Error ellipse: s-maj=61.6km s-min=15.3km az=17.0.
ISC III 14 17 29 13.9–1.0 25.44N–.09 109.6W–.10 11 9 1-37
IDC III 14 17 29 12.1–1.5 25.39N 109.52W 0 3.8,3.7L **¶17195213**
ISCJB III 14 17 29 13.1–.77 25.41N–.08 109.4W–.10 11 3.3b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 04 18 52.0–2.0 25.27N 109.26W 0 3.7,3.4
¶17196016
IDC Error ellipse: s-maj=41.5km s-min=20.2km az=127.0.
MEX III 15 23 25 40.2–.56 26.95N 111.36W 18–22 4.0
¶601137264
MEX Error ellipse: s-maj=4.4km s-min=4.2km az=-1.0.
ISC III 17 10 52 40.4–.50 25.23N–.03 109.75W–.07 10 4.4b,3.5s 303 1-109
IDC III 17 10 52 38.7–1.0 25.34N 109.72W 0 4.2,4.1b **¶16339110**
ISCJB III 17 10 52 39.1–.30 25.32N–.03 109.66W–.02 10 4.3b,3.5s
NEIC III 17 10 52 42.6–1.7 25.28N 109.63W 23–13 4.3b,4.2
MEX III 17 10 52 43.8–.79 25.28N 109.55W 18–103 4.2,4.2
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=15.4km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=9.7.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.8km az=47.0.
MEX Error ellipse: s-maj=12.1km s-min=17.1km az=-1.0.
ISC III 18 01 44 12.1–.50 25.46N–.04 109.82W–.05 10 4.5b,4.3s 175 1-121
IDC III 18 01 44 10.8–.89 25.38N 109.59W 0 4.3,4.3s **¶16339122**
ISCJB III 18 01 44 10.5–.29 25.39N–.03 109.75W–.04 10 4.5b,4.3s
MEX III 18 01 44 12.8–1.1 25.46N 109.82W 10–13 4.4,4.3s
BJI III 18 01 44 12.4 25.40N 109.70W 10 4.9b,4.9s
NEIC III 18 01 44 12.4–.41 25.40N 109.69W 10 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=10.6km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=157.5.
MEX Error ellipse: s-maj=4.6km s-min=5.2km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.0km az=62.0.
IDC III 18 01 58 23.3–1.7 25.48N 109.31W 0 3.6,3.4
¶17196913
IDC Error ellipse: s-maj=34.3km s-min=15.9km az=130.0.
IDC III 19 02 29 17.2–1.8 24.84N 109.36W 0 3.6,3.5L
¶17197123
IDC Error ellipse: s-maj=43.8km s-min=10.5km az=134.0.
ISC III 19 23 30 48.8–.66 27.76N–.04 111.83W–.04 10 3.9b,3.6s 50 1-43
ISCJB III 19 23 30 48.4–.47 27.82N–.04 111.82W–.04 10 3.9b,3.6s **¶16479311**
NEIC III 19 23 30 49.4–.87 27.74N 111.76W 10 4.1b,3.7
MEX III 19 23 30 51.1–.42 27.80N 111.89W 10 3.7,3.7
IDC III 19 23 30 54.8–1.7 28.39N 111.41W 0 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=38.3.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=9.5km az=158.0.
MEX Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=11.2km az=27.0.
ISC III 19 23 40 38.0–1.0 27.94N–.04 111.91W–.05 10 17 1-6
ISCJB III 19 23 40 36.7–.71 28.02N–.03 112.01W–.06 10 **¶16479313**
NEIC III 19 23 40 38.0–.92 27.90N 111.84W 10 4.1
MEX III 19 23 40 39.4–.68 27.92N 111.97W 5–12 4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.7km az=7.7.
NEIC Event type se. Error ellipse: s-maj=27.9km s-min=8.7km az=118.0.
MEX Error ellipse: s-maj=4.5km s-min=4.3km az=-1.0.
ISC III 19 23 54 09.3–.77 27.86N–.04 111.84W–.05 10 64 1-21
ISCJB III 19 23 54 08.1–.38 27.85N–.03 111.84W–.03 10 **¶16339546**
NEIC III 19 23 54 11.0 27.89N 111.95W 14 4.2
MEX III 19 23 54 11.2–.55 27.90N 111.95W 15–8 4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=4.1km az=143.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=2.7km s-min=2.9km az=-1.0.
ISC III 24 02 04 34.4–.81 27.17N–.05 111.96W–.06 10 3.7b 33 0-44
ISCJB III 24 02 04 33.3–.65 27.19N–.05 111.95W–.04 10 3.6b,3.4s **¶16357305**
IDC III 24 02 04 33.4–1.5 27.14N 111.93W 0 4.0,3.8
MEX III 24 02 04 34.2–.62 27.09N 112.08W 10 4.0,3.8
NEIC III 24 02 04 35.1–1.1 27.13N 111.98W 10 4.1b,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.1km az=10.4.
IDC Error ellipse: s-maj=22.3km s-min=14.7km az=38.0.
MEX Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=15.3km s-min=10.6km az=47.0. Felt [III] at Mulege, Baja California Sur. Also felt at Santa Rosalia.
ISC III 24 15 43 24.3–1.0 24.8N–.10 109.5W–.10 17 10 1-47
IDC III 24 15 43 22.9–1.4 25.04N 109.69W 0 3.5,3.4 ¶17198382
ISCJB III 24 15 43 23.1–.72 24.92N–.07 109.5W–.10 17 3.2b,3.4
MEX III 24 15 43 25.1–.40 25.07N 109.60W 15 3.8,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=14.0km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=5.5km az=34.3.
MEX Error ellipse: s-maj=7.3km s-min=11.0km az=-1.0.
MEX III 24 16 25 37.2–.31 25.32N 109.89W 15 3.8
¶601137344

MEX Error ellipse: s-maj=1.9km s-min=2.4km az=-1.0.
ISC III 24 17 25 31.7–3.3 25.34N–.03 109.95W–.04 7–21 4.7b,4.4s 360 1-122
ECX III 24 17 25 27.6–1.6 25.39N 109.66W 10–161 4.6L,4.4 ¶16480668
ISCJB III 24 17 25 30.4–.21 25.30N–.02 110.05W–.02 10 4.6b,4.4s
MEX III 24 17 25 31.9–.39 25.37N 109.89W 15 4.4,4.4s
NEIC III 24 17 25 32.7–.46 25.30N 110.07W 10 4.8b,4.4
IDC III 24 17 25 32.4–.73 25.52N 109.97W 0 4.4,4.4
ISC Event type se.
ECX Error ellipse: s-maj=19.9km s-min=149.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.9km az=28.5.
MEX Error ellipse: s-maj=2.1km s-min=2.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=55.0.
IDC Error ellipse: s-maj=24.1km s-min=14.0km az=62.0.
ISC III 24 19 06 16.5–.54 25.08N–.05 109.72W–.07 10 4.2s,4.2b 147 1-98
IDC III 24 19 06 14.8–.91 25.13N 109.74W 0 4.3,4.2 ¶16480684
MEX III 24 19 06 15.7–.51 25.43N 110.06W 10 4.2,4.2
NEIC III 24 19 06 17.9–2.0 24.99N 109.68W 28–16 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=9.4km az=113.0.
MEX Error ellipse: s-maj=2.4km s-min=2.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.9km az=86.0.
ISC III 24 19 43 19.2–1.0 25.01N–.10 109.6W–.10 10 8 1-18
IDC III 24 19 43 12.1–6.7 24.44N 109.53W 0 3.8,3.8L ¶17198399
ISCJB III 24 19 43 18.8–.76 24.96N–.07 109.4W–.10 10 3.8,3.8L
MEX III 24 19 43 21.6–.57 25.11N 109.64W 10 3.8,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=80.9km s-min=29.5km az=167.0.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=5.5km az=34.0.
MEX Error ellipse: s-maj=10.2km s-min=16.3km az=-1.0.
MEX III 25 03 16 51.8–.39 26.93N 111.94W 15–7 3.7
¶601137349

MEX Error ellipse: s-maj=5.5km s-min=3.2km az=-1.0.
ISC III 25 03 27 41.2–.98 25.12N–.05 109.69W–.09 17 12 1-46
IDC III 25 03 27 39.6–1.2 25.15N 109.68W 0 3.5L,3.2 ¶17198448
ISCJB III 25 03 27 39.8–.62 25.16N–.04 109.60W–.08 17 2.9b,3.2
MEX III 25 03 27 42.6–.33 25.16N 109.60W 8–6 3.8,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=33.7km s-min=10.4km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.0km az=19.0.
MEX Error ellipse: s-maj=3.8km s-min=5.4km az=-1.0.
ISC III 28 06 36 02.1–1.1 28.60N–.07 112.77W–.09 10 11 1-42
IDC III 28 06 35 57.5–1.9 28.27N 113.03W 0 3.8,3.5 ¶17198912
ISCJB III 28 06 35 58.4–.89 28.72N–.06 112.98W–.07 10 3.1b,3.5
MEX III 28 06 36 02.2–.67 28.74N 113.09W 16–8 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.7km s-min=16.6km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.9km az=141.5.
MEX Error ellipse: s-maj=3.7km s-min=3.2km az=-1.0.
MEX III 29 01 49 25.3–.43 27.35N 111.29W 16–959 3.3
¶601137391

MEX Error ellipse: s-maj=10.5km s-min=6.2km az=-1.0.
MEX III 31 03 23 17.3–.44 25.23N 110.02W 15–7 3.7
¶601137424

MEX Error ellipse: s-maj=4.9km s-min=6.6km az=-1.0.
MEX IV 06 22 25 14.5–.48 27.88N 111.92W 11–8 3.6
¶602595966

MEX Error ellipse: s-maj=3.4km s-min=3.6km az=-1.0.
ISC IV 12 15 52 04.6–1.1 31.91N–.02 114.96W–.03 18–4 51 0-8
ISCJB IV 12 15 52 05.8–.54 31.88N–.03 114.92W–.05 30–4 ¶16427686
NEIC IV 12 15 52 08.6 31.85N 115.15W 8 3.7,3.5L
ECX IV 12 15 52 08.6–.60 31.85N 115.15W 8 3.5L,3.3
MEX IV 12 15 52 09.5–.51 31.90N 115.04W 16–11 3.7,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=178.5.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.5km s-min=3.7km az=-1.0.
MEX Error ellipse: s-maj=2.4km s-min=6.3km az=-1.0.
MEX IV 20 03 41 35.7–.29 27.58N 111.85W 76–7 3.6
¶602596376

MEX Error ellipse: s-maj=4.7km s-min=4.5km az=-1.0.
ISC IV 20 18 21 44.9–.40 27.52N–.03 111.42W–.02 10 4.6b,4.3s 162 1-126
ECX IV 20 18 21 40.2–1.0 27.56N 111.31W 13–16 4.5,4.3s ¶16485031
MEX IV 20 18 21 43.4–.89 27.50N 111.37W 16–13 4.2,4.3s
ISCJB IV 20 18 21 44.3–.29 27.57N–.03 111.31W–.03 10 4.5b,4.3s
IDC IV 20 18 21 44.5–.70 27.68N 111.40W 0 4.3,4.3
NEIC IV 20 18 21 44.4–.49 27.42N 111.37W 10 4.6b,4.2
GCMT IV 20 18 21 45.5–.30 27.68N 111.46W 20–1 5.0W,4.2
ISC Event type fe.
ECX Error ellipse: s-maj=12.5km s-min=13.0km az=-1.0.
MEX Error ellipse: s-maj=7.8km s-min=5.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=40.1.
IDC Error ellipse: s-maj=14.9km s-min=10.9km az=51.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=201.0. Felt [II] at Guaymas, Sonora. Also felt at Empalme.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s91,c140; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.30±.13 $M_{\theta\theta}$-3.53±.12; $M_{\phi\phi}$3.22±.12; $M_{r\theta}$-1.37±.25; $M_{\theta\phi}$-1.40±.11; $M_{\phi r}$0.23±.22; Best double couple: NP1:ϕ_s124.00000°,δ85.00000°,λ-162.00000°. NP2:ϕ_s33.00000°,δ72.00000°,λ-5.00000°. Principal axes:
T 3.5800,Plg9.0000°,Azm257.0000°; N 0.5990,Plg71.0000°,Azm138.0000°
; P -4.1870,Plg16.0000°,Azm350.0000° $M_0$3.88300×10^{16}
MEX IV 22 20 24 00.9–.68 27.46N 111.43W 2 3.7
¶602596463

MEX Error ellipse: s-maj=8.9km s-min=6.4km az=-1.0.
ISC IV 26 18 16 50.2–1.1 32.00N–.03 114.99W–.03 14–10 39 0-5
ISCJB IV 26 18 16 51.5–.50 31.98N–.03 114.97W–.04 25–5 ¶16631208
MEX IV 26 18 16 53.4–.47 32.04N 114.89W 20–43 3.3
NEIC IV 26 18 16 54.1 31.94N 115.08W 7 2.8L,2.8L
ECX IV 26 18 16 54.1–.39 31.94N 115.08W 7 2.8L,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=12.0.
MEX Error ellipse: s-maj=2.4km s-min=6.3km az=-1.0.
NEIC Event type se. After ECX.
ECX Error ellipse: s-maj=1.2km s-min=2.7km az=-1.0.
ISC IV 26 21 10 25.9–.31 27.60N–.04 111.40W–.03 10 5.1s,5.0b 932 1-142
ECX IV 26 21 10 21.0–1.8 27.54N 111.32W 8–32 5.5,5.0b ¶602546222
ISCJB IV 26 21 10 24.4–.19 27.63N–.02 111.27W–.01 10 5.1s,4.9b
IDC IV 26 21 10 24.4–.54 27.65N 111.41W 0 4.9,4.9s
MEX IV 26 21 10 24.4–.63 27.57N 111.46W 13 5.4,4.9s
GCMT IV 26 21 10 25.6–.10 27.67N 111.54W 18–0 5.4W,4.9s
NEIC IV 26 21 10 25.6–1.2 27.46N 111.53W 11–7 5.4,5.3W
BJI IV 26 21 10 25.1 27.40N 111.60W 15 5.6b,5.6s
NEIC IV 26 21 10 26.0–.00 27.44N 111.60W 15 5.6b,5.6s
MOS IV 26 21 10 26.0–1.2 27.61N 111.36W 20 5.4s,5.2b
ISC Event type fe.
ECX Error ellipse: s-maj=22.8km s-min=23.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=25.1.
IDC Error ellipse: s-maj=15.0km s-min=9.5km az=46.0.
MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c135; s120,c224; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.02 $M_{\theta\theta}$-1.57±.03; $M_{\phi\phi}$1.64±.03; $M_{r\theta}$-0.31±.06; $M_{\theta\phi}$-0.53±.02; $M_{\phi r}$-0.06±.05; Best double couple: NP1:ϕ_s35.00000°,δ82.00000°,λ-8.00000°. NP2:ϕ_s126.00000°,δ82.00000°,λ-172.00000°. Principal axes:
T 1.7250,Plg0.0000°,Azm81.0000°; N -0.0110,Plg79.0000°,Azm172.0000°
; P -1.7160,Plg11.0000°,Azm351.0000° $M_0$1.72000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=216.0. Felt [III] at Guaymas and [II] at Hermosillo, Sonora. Also felt at Agua Prieta, Bahia de Kino, Empalme and Kino. Felt at Santa Rosalia, Baja California Sur.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-1.30 $M_{\phi\phi}$1.40 $M_{r\theta}$0.40 $M_{\theta\phi}$0.00 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s316.00000°,δ84.00000°,λ-163.00000°. NP2:ϕ_s224.00000°,δ73.00000°,λ-5.00000°. Principal axes:
T 1.4000,Plg7.0000°,Azm89.0000°; N 0.0000,Plg72.0000°,Azm334.0000°
; P -1.4000,Plg15.0000°,Azm181.0000° $M_0$1.00000×10^{17}
MOS Error ellipse: s-maj=7.7km s-min=4.3km az=97.5.
MEX IV 26 21 39 33.8–.55 27.45N 111.42W 13 3.8
¶602596584

MEX Error ellipse: s-maj=5.9km s-min=4.2km az=-1.0.
MEX IV 26 21 54 44.5–.55 27.38N 111.39W 16–10 3.6
¶602596585

MEX Error ellipse: s-maj=8.3km s-min=5.7km az=-1.0.
MEX IV 26 23 44 07.3–.77 27.41N 111.43W 13 3.6
¶602596588

MEX Error ellipse: s-maj=10.4km s-min=6.6km az=-1.0.
MEX IV 26 23 59 19.0–.58 27.39N 111.40W 13 3.5
¶602596589

MEX Error ellipse: s-maj=5.9km s-min=4.4km az=-1.0.
MEX IV 27 08 18 34.0–.99 27.38N 111.37W 10 3.5
ECX IV 27 08 18 37.1–1.2 27.74N 111.73W 10 3.3 ¶601137782
MEX Error ellipse: s-maj=14.2km s-min=10.5km az=-1.0.
ECX Error ellipse: s-maj=9.7km s-min=21.6km az=-1.0.
MEX IV 27 11 25 35.5–.87 27.29N 111.31W 16–24 3.6
¶602596623

MEX Error ellipse: s-maj=24.8km s-min=16.1km az=-1.0.
MEX IV 27 11 31 06.0–.81 27.54N 111.46W 11 3.6
ECX IV 27 11 31 07.2–.46 27.79N 111.75W 10 3.8 ¶601137787
MEX Error ellipse: s-maj=9.8km s-min=6.1km az=-1.0.
ECX Error ellipse: s-maj=3.6km s-min=5.5km az=-1.0.
ISC IV 27 17 34 55.8–1.4 27.6N–.10 111.54W–.08 10 8 1-1
ISCJB IV 27 17 34 56.5–1.0 27.6N–.10 111.54W–.08 10 ¶601137792
ECX IV 27 17 34 59.0–.52 27.68N 111.64W 10 3.4
MEX IV 27 17 34 59.4–.85 27.46N 111.37W 30–31 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=5.7km az=145.8.
ECX Error ellipse: s-maj=5.4km s-min=10.6km az=-1.0.
MEX Error ellipse: s-maj=14.6km s-min=22.3km az=-1.0.
MEX IV 30 00 12 30.8–.61 27.36N 111.37W 15 3.6
¶602596716

MEX Error ellipse: s-maj=8.4km s-min=7.2km az=-1.0.
MEX IV 30 07 17 16.6–.34 28.72N 112.70W 5–12 4.1
¶602596719

MEX Error ellipse: s-maj=3.6km s-min=5.7km az=-1.0.
MEX V 01 19 44 11.3–.85 28.72N 112.97W 15–17 3.6
¶602597582

MEX Error ellipse: s-maj=5.9km s-min=7.7km az=-1.0.
ISC V 12 14 48 20.5–2.6 31.90N–.03 114.96W–.03 19–6 57 0-5
ECX V 12 14 48 23.6–1.2 31.85N 115.08W 10 3.4L,3.2 ¶16722564
NEIC V 12 14 48 23.7 31.86N 115.10W 10 3.4L,3.2L
MEX V 12 14 48 24.8–.81 31.87N 115.01W 10 3.7,3.2L
ISC Event type se.
ECX Error ellipse: s-maj=3.4km s-min=7.2km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=2.6km s-min=8.0km az=-1.0.
IDC V 17 22 19 22.6–4.8 23.60N 108.85W 0 4.1,3.8L
¶17203842

IDC Error ellipse: s-maj=74.4km s-min=18.5km az=178.0.
IDC V 24 06 57 36.1–1.5 25.06N 109.56W 0 4.1L,3.7
¶17204361

IDC Error ellipse: s-maj=35.0km s-min=13.7km az=127.0.
ISC V 24 19 01 43.4–.43 27.69N–.04 111.53W–.04 10 4.7b,4.6s 529 1-125
ISCJB V 24 19 01 40.3–.29 27.52N–.03 111.47W–.02 10 4.6b,4.5s ¶16544919
ECX V 24 19 01 41.9–.32 27.82N 111.70W 10 5.4,4.5s
GCMT V 24 19 01 42.6–.30 27.66N 111.53W 19–1 5.1W,4.5s
NEIC V 24 19 01 42.6–.43 27.59N 111.56W 10 5.0,4.7b
MEX V 24 19 01 43.1–.56 27.68N 111.67W 12–6 5.0,4.7b
IDC V 24 19 01 45.2–1.1 28.00N 111.26W 0 4.5,4.5s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=1.7km az=21.5.
ECX Error ellipse: s-maj=1.4km s-min=2.0km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c68; s108,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.32±.14 $M_{\theta\theta}$-5.31±.14; $M_{\phi\phi}$5.63±.15; $M_{r\theta}$-1.12±.28; $M_{\theta\phi}$-1.20±.12; $M_{\phi r}$0.10±.27; Best double couple: NP1:ϕ_s129.00000°,δ83.00000°,λ-170.00000°. NP2:ϕ_s38.00000°,δ80.00000°,λ-7.00000°. Principal axes:
T 5.7680,Plg2.0000°,Azm264.0000°; N -0.0970,Plg78.0000°,Azm164.0000°
; P -5.6680,Plg12.0000°,Azm354.0000° $M_0$5.71800×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=209.0. Felt [III] at Guaymas, Sonora. Also felt at Hermosillo.
MEX Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=10.9km az=31.0.
MEX V 24 19 19 16.9–.35 27.79N 111.88W 16–999 3.5
¶602597844

MEX Error ellipse: s-maj=6.6km s-min=9.9km az=-1.0.
MEX V 25 02 11 11.6–.36 27.75N 111.79W 16–5 3.9
¶602597848

MEX Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0.
MEX V 26 03 51 10.0–.63 27.76N 111.81W 16–11 3.8
¶602597856

MEX Error ellipse: s-maj=5.7km s-min=10.2km az=-1.0.
ISC V 26 19 46 23.2–1.6 31.3N–.20 113.54W–.09 10 13 1-3
ECX V 26 19 46 30.3–.53 30.82N 113.93W 10 3.8L,3.7 ¶602597862
MEX V 26 19 46 49.4–.67 30.86N 115.33W 4–25 3.8,3.7
ISC Event type ke.
ECX Error ellipse: s-maj=4.5km s-min=4.1km az=-1.0.
MEX Error ellipse: s-maj=60.0km s-min=135.2km az=-1.0.
ISC VI 04 19 43 13.5–1.0 31.91N–.02 114.99W–.02 14–9 71 0-5
ISCJB VI 04 19 43 12.7–.56 31.91N–.02 114.94W–.03 8–5 ¶16884571
ECX VI 04 19 43 15.4–.67 31.87N 115.00W 9 3.3L,3.0
NEIC VI 04 19 43 15.4 31.87N 115.01W 9 3.3L,2.9L
MEX VI 04 19 43 16.1–.38 31.91N 114.89W 16–9 3.8,2.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.6km az=41.1.
ECX Error ellipse: s-maj=2.0km s-min=3.4km az=-1.0.
NEIC Event type se. After ECX.
MEX Error ellipse: s-maj=3.3km s-min=10.3km az=-1.0.
MEX VI 06 02 18 05.2–.38 27.93N 111.98W 16–6 3.6
¶602597948

MEX Error ellipse: s-maj=2.5km s-min=3.4km az=-1.0.
MEX VI 07 09 44 55.3–.43 27.55N 111.51W 16–7 3.5
¶602597966

MEX Error ellipse: s-maj=5.4km s-min=4.2km az=-1.0.
MEX VI 08 04 40 37.1–.33 30.22N 114.76W 16 3.7
¶602597975

MEX Error ellipse: s-maj=87.2km s-min=102.2km az=-1.0.
MEX VI 08 22 19 04.4–.33 29.00N 113.22W 18–146 3.5
¶602597983

MEX Error ellipse: s-maj=3.8km s-min=8.2km az=-1.0.
MEX VI 08 23 41 35.2–.34 30.25N 114.76W 14 3.8
¶602597984

MEX Error ellipse: s-maj=98.6km s-min=114.2km az=-1.0.

IDC VI 10 01 00 49.1–5.0 23.83N 108.80W 0 4.0L,3.7
¶17205673

IDC Error ellipse: s-maj=78.3km s-min=19.6km az=152.0.
MEX VI 13 14 22 18.0–.36 27.31N 111.49W 10 3.7
¶602598051

MEX Error ellipse: s-maj=9.4km s-min=5.6km az=-1.0.
MEX VI 13 19 17 49.3–.31 25.71N 110.02W 10 4.1
¶602598054

MEX Error ellipse: s-maj=3.2km s-min=3.1km az=-1.0.
ISC VI 22 10 30 22.3–1.5 31.90N–.03 114.99W–.04 3–12 48 0-4
ECX VI 22 10 30 27.0–1.1 31.86N 115.09W 8 3.6L,3.4 **¶601218535**
MEX VI 22 10 30 28.6–.97 31.93N 115.29W 16–12 3.7,3.4
ISC Event type ke.
ECX Error ellipse: s-maj=2.0km s-min=5.9km az=-1.0.
MEX Error ellipse: s-maj=407.1km s-min=999.9km az=-1.0.
MEX VI 26 18 39 10.2–.34 27.52N 112.00W 50–17 3.9
¶602598176

MEX Error ellipse: s-maj=19.6km s-min=13.1km az=-1.0.
MEX VI 27 02 03 09.1–.93 27.51N 111.51W 20 4.0
NEIC VI 27 02 03 09.1 27.51N 111.51W 20 4.0 **¶16886912**
MEX Error ellipse: s-maj=5.9km s-min=4.6km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 28 04 38 22.4–.83 27.34N 111.36W 16–999 3.5
¶602598188

MEX Error ellipse: s-maj=11.4km s-min=11.0km az=-1.0.
MEX VI 28 04 38 34.6–.42 27.35N 111.33W 12 3.6
¶602598191

MEX Error ellipse: s-maj=7.9km s-min=7.0km az=-1.0.
MEX VI 30 14 39 11.2–.32 27.82N 111.75W 13–9 3.8
¶602598217

MEX Error ellipse: s-maj=10.3km s-min=6.6km az=-1.0.

(50) Sonora.

MEX IV 18 17 49 46.2–.34 30.27N 109.64W 11–21 3.8
¶602596311

MEX Error ellipse: s-maj=8.4km s-min=6.2km az=-1.0.
MEX VI 23 22 49 07.8–.33 30.07N 110.04W 16–7 3.8
¶602598148

MEX Error ellipse: s-maj=2.9km s-min=3.0km az=-1.0.

(51) Off coast of central Mexico.

MEX II 15 09 53 19.1–.32 21.85N 106.87W 8–14 4.1
NEIC II 15 09 53 19.1 21.85N 106.87W 8 4.1 **¶16398257**
MEX Error ellipse: s-maj=7.1km s-min=12.4km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 08 08 10 56.8–.42 21.28N 106.15W 10–11 3.9
¶602596008

MEX Error ellipse: s-maj=4.7km s-min=7.6km az=-1.0.
IDC VI 10 00 13 26.0–8.8 22.35N 108.48W 0 3.8,3.6
¶17205671

IDC Error ellipse: s-maj=127.5km s-min=44.6km az=173.0.

(52) Near coast of central Mexico.

MEX III 04 06 36 20.1–.42 21.04N 105.11W 16–999 3.5
¶601137166

MEX Error ellipse: s-maj=10.0km s-min=29.6km az=-1.0.

SEISMIC REGION 5.
Mexico-Guatemala Area.

(53) Revilla Gigedo Islands region.

ISC I 15 10 51 35.3–1.5 19.7N–.20 109.0W–.20 26 3.9b,3.9s 16 2-68
IDC I 15 10 51 31.2–1.9 19.67N 109.05W 0 4.1,3.9 **¶15940527**
ISCJB I 15 10 51 33.5–1.2 19.7N–.20 108.9W–.20 26 3.9b,3.8s
NEIC I 15 10 51 33.0–.91 19.70N 109.01W 10 4.4b,3.8s
GCMT I 15 10 51 36.0–.40 19.64N 108.98W 25–1 5.0W,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=77.7km s-min=18.0km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=31.9km s-min=9.0km az=136.9.
NEIC Event type se. Error ellipse: s-maj=23.9km s-min=6.8km az=47.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c26; s70,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.28±.17 $M_{\theta\theta}$-3.08±.14; $M_{\phi\phi}$3.36±.15; $M_{r\theta}$-0.53±.26; $M_{\theta\phi}$-1.18±.10; $M_{\phi r}$0.28±.26; Best double couple: NP1:ϕ_s125.00000°,δ88.00000°,λ-170.00000°. NP2:ϕ_s35.00000°,δ80.00000°,λ-2.00000°. Principal axes: T 3.6050,Plg6.0000°,Azm260.0000°; N -0.2450,Plg80.0000°,Azm138.0000°; P -3.3620,Plg9.0000°,Azm350.0000° $M_0$3.48300×10^{16}
ISC I 29 18 01 00.6–.46 19.62N–.06 109.32W–.04 10 4.5b,3.9s 338 2-126
ISCJB I 29 18 00 58.3–.29 19.50N–.03 109.23W–.02 10 4.4b,3.9s **¶15981228**
IDC I 29 18 00 58.9–.75 19.71N 109.38W 0 4.3,4.1
MEX I 29 18 01 00.7–.64 19.71N 109.26W 11–14 4.3,4.1
NEIC I 29 18 01 02.0–.49 19.68N 109.18W 10 4.5b,4.3
GCMT I 29 18 01 02.0–.40 19.84N 109.26W 21–1 5.0W,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=173.5.
IDC Error ellipse: s-maj=19.0km s-min=13.7km az=104.0.
MEX Error ellipse: s-maj=6.5km s-min=4.2km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.8km az=222.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c29; s89,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.41±.12 $M_{\theta\theta}$-2.97±.11; $M_{\phi\phi}$3.38±.12; $M_{r\theta}$-1.29±.21; $M_{\theta\phi}$-0.28±.09; $M_{\phi r}$0.14±.18; Best double couple: NP1:ϕ_s135.00000°,δ77.00000°,λ-161.00000°. NP2:ϕ_s40.00000°,δ72.00000°,λ-14.00000°. Principal axes: T 3.4030,Plg3.0000°,Azm267.0000°; N 0.1060,Plg67.0000°,Azm169.0000°; P -3.5140,Plg23.0000°,Azm358.0000° $M_0$3.45900×10^{16}
ISC I 30 01 45 57.3–4.3 19.4N–.50 109.2W–.40 35 3.4s 9 2-52
IDC I 30 01 45 44.9–9.9 18.52N 108.44W 0 3.8,3.5 **¶17191280**
ISCJB I 30 01 45 55.5–2.6 19.3N–.30 109.1W–.20 33 3.5s,3.2b
ISC Event type ke.
ISCJB Event type ke.
IDC II 18 14 34 42.3–9.8 19.33N 108.20W 0 3.6,3.4L
¶17192485

IDC Error ellipse: s-maj=160.7km s-min=72.7km az=152.0.
ISC III 11 04 05 40.5–.51 19.55N–.05 109.12W–.04 26 4.5b,3.8s 318 2-122
MEX III 11 04 05 38.3–.65 19.63N 109.03W 14–29 4.6,3.8s **¶16304931**
NEIC III 11 04 05 39.2–.61 19.52N 109.07W 10 4.4b,3.8s
BJI III 11 04 05 39.0 19.50N 109.10W 10 4.4b,3.8s
IDC III 11 04 05 41.8–1.2 20.21N 108.59W 0 4.4,4.3
ISC Event type se.
MEX Error ellipse: s-maj=16.3km s-min=9.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=5.9km az=220.0.
IDC Error ellipse: s-maj=35.1km s-min=15.1km az=45.0.
IDC IV 02 17 09 37.9–4.9 21.95N 110.77W 0 3.7L,3.6
¶17199552

IDC Error ellipse: s-maj=74.3km s-min=46.3km az=140.0.
ISC IV 06 02 47 02.3–6.5 19.2N–.70 108.8W–.60 35 3.5b,3.3s 8 2-52
IDC IV 06 02 46 53.5–6.9 18.74N 108.15W 0 3.8,3.7 **¶17199948**
ISC Event type ke.
IDC Error ellipse: s-maj=127.7km s-min=65.9km az=142.0.
IDC IV 06 03 05 32.2–8.0 18.98N 108.28W 0 3.6,3.6
¶17199950

IDC Error ellipse: s-maj=140.3km s-min=66.8km az=145.0.
ISC IV 29 01 27 00.5–1.3 18.5N–.20 108.61W–.09 35 3.5b 11 2-53
IDC IV 29 01 26 55.2–2.0 18.49N 108.60W 0 3.9,3.7 **¶17202339**
ISCJB IV 29 01 26 58.8–1.1 18.6N–.10 108.60W–.06 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 23 45 51.2–1.2 19.6N–.10 109.08W–.10 26 4.0b,3.3s 109 2-95
NEIC IV 30 23 45 46.5–.82 19.24N 109.16W 10 4.0b,3.3s **¶16501704**
IDC IV 30 23 45 47.4–2.0 19.59N 109.07W 0 4.0,3.8
ISCJB IV 30 23 45 49.1–.79 19.47N–.07 109.09W–.05 26 4.0b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 05 19 52 13.9–1.3 19.8N–.10 109.9W–.20 35 3.7s,3.4b 11 4-121
IDC VI 05 19 52 08.9–1.1 19.70N 109.75W 0 3.9,3.8 **¶16578067**
GCMT VI 05 19 52 08.0–.50 19.93N 109.38W 24–2 4.9W,3.8
ISCJB VI 05 19 52 11.6–1.3 19.8N–.10 109.8W–.20 33 3.7s,3.5b
ISC Event type ke.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c13; s74,c99;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.16±.15 $M_{\theta\theta}$-1.81±.14; $M_{\phi\phi}$1.65±.14; $M_{r\theta}$-0.31±.15; $M_{\theta\phi}$-1.58±.10; $M_{\phi r}$0.73±.17; Best double couple: NP1:ϕ_s292.00000°,δ77.00000°,λ166.00000°. NP2:ϕ_s25.00000°,δ77.00000°,λ13.00000°. Principal axes: T 2.5300,Plg19.0000°,Azm249.0000°; N -0.1030,Plg71.0000°,Azm70.0000°; P -2.4230,Plg0.0000°,Azm339.0000° $M_0$2.47600×10^{16}
ISCJB Event type ke.
ISC VI 17 18 43 51.2–.96 19.74N–.09 109.5W–.10 35 3.9b,3.2s 13 2-92
IDC VI 17 18 43 46.0–1.9 19.68N 109.58W 0 4.2,3.9 **¶17206406**
ISCJB VI 17 18 43 49.3–.85 19.76N–.09 109.5W–.10 33 3.8b,3.3s
ISC Event type ke.
ISCJB Event type ke.

(54) Off coast of Jalisco.

ISC III 12 10 17 04.9–.99 18.64N–.09 106.85W–.07 30 4.4b 194 2-56
IDC III 12 10 16 59.5–3.3 18.58N 106.98W 0 4.4,4.2 **¶16310170**
ISCJB III 12 10 17 01.8–.63 18.48N–.06 106.99W–.03 30 4.3b,4.2
NEIC III 12 10 17 04.4–1.9 18.54N 107.06W 30–11 4.4,4.4b
MEX III 12 10 17 04.3–.91 18.76N 106.78W 3–52 4.4,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=63.0km s-min=25.8km az=23.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=3.9km az=17.3.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=4.2km az=201.0.
MEX Error ellipse: s-maj=18.1km s-min=45.9km az=-1.0.
MEX III 12 11 07 08.9–.38 18.43N 106.16W 10–30 3.7
¶601137232

MEX Error ellipse: s-maj=23.1km s-min=18.3km az=-1.0.
ISC V 02 05 44 32.6–1.9 18.78N–.06 105.79W–.06 8–10 4.2b,3.9s 86 1-56
IDC V 02 05 44 17.7–4.0 17.51N 106.94W 0 3.9,3.9 **¶16487755**
ISCJB V 02 05 44 31.3–1.3 18.75N–.04 105.82W–.03 11–8 4.1b,3.9s
MEX V 02 05 44 31.3–.70 18.70N 106.00W 10 4.2,3.9s
NEIC V 02 05 44 31.3 18.70N 106.00W 10 4.2,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=73.3km s-min=33.1km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=23.6.
MEX Error ellipse: s-maj=6.6km s-min=7.4km az=-1.0.
NEIC Event type se. After MEX.
ISC V 08 22 47 07.4–1.4 18.4N–.10 106.8W–.10 30 4.3b,3.9s 120 3-99
IDC V 08 22 47 03.0–3.0 18.45N 106.79W 0 4.0,3.9 **¶16506291**
ISCJB V 08 22 47 05.9–.73 18.41N–.07 106.61W–.04 30 4.2b,3.9s
NEIC V 08 22 47 06.1–3.9 18.40N 106.75W 17–22 4.4,4.3b
MEX V 08 22 47 13.0–.72 18.36N 106.01W 10 4.4,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=62.8km s-min=35.1km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=5.4km az=18.2.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=6.5km az=205.0.
MEX Error ellipse: s-maj=14.6km s-min=12.0km az=-1.0.

(55) Near coast of Jalisco.

MEX II 08 07 20 41.9–.78 19.73N 104.58W 6–9 4.0
¶601136955

MEX Error ellipse: s-maj=4.6km s-min=7.1km az=-1.0.
MEX II 12 01 14 55.7–.36 19.43N 104.62W 63–17 3.5
¶601136992

MEX Error ellipse: s-maj=5.5km s-min=9.5km az=-1.0.
MEX II 20 20 59 11.8–.55 19.69N 104.72W 20–57 4.0
¶601137068

MEX Error ellipse: s-maj=8.3km s-min=14.4km az=-1.0.
MEX II 23 02 48 40.8–.77 19.20N 104.66W 29–24 4.0
¶601137094

MEX Error ellipse: s-maj=5.2km s-min=10.0km az=-1.0.
MEX III 02 11 07 52.2–.45 19.37N 104.55W 6–3 3.7
¶601137154

MEX Error ellipse: s-maj=3.0km s-min=1.8km az=-1.0.
MEX III 06 10 04 38.5–.64 19.20N 104.55W 49–8 4.0
NEIC III 06 10 04 38.5 19.20N 104.55W 49 4.0 **¶16442196**
MEX Error ellipse: s-maj=5.0km s-min=3.0km az=-1.0.
NEIC Event type se. After MEX.
MEX III 13 08 35 14.6–.79 19.47N 105.41W 20–27 3.7
¶601137240

MEX Error ellipse: s-maj=6.1km s-min=9.1km az=-1.0.
MEX IV 01 16 23 23.5–.71 18.97N 104.07W 23–17 3.7
¶602595768

MEX Error ellipse: s-maj=7.3km s-min=14.2km az=-1.0.
MEX IV 05 19 26 16.3–.41 20.26N 105.90W 24–20 3.5
¶602595938

MEX Error ellipse: s-maj=4.2km s-min=9.4km az=-1.0.
MEX IV 17 22 37 23.9–.65 18.81N 104.89W 15 3.7
¶602596288

MEX Error ellipse: s-maj=8.7km s-min=14.1km az=-1.0.
MEX V 12 11 34 44.1–1.0 20.66N 105.98W 18–704 3.5
¶602597698

MEX Error ellipse: s-maj=7.6km s-min=12.6km az=-1.0.
MEX V 15 17 00 57.2–.48 19.55N 104.38W 66–7 3.9
¶602597752

MEX Error ellipse: s-maj=3.1km s-min=2.2km az=-1.0.
MEX V 18 11 13 20.0–.41 19.45N 104.51W 69–8 3.6
¶602597787

MEX Error ellipse: s-maj=6.5km s-min=9.5km az=-1.0.
MEX V 20 13 07 11.1–.51 18.13N 104.62W 16–110 3.5
¶602597809

MEX Error ellipse: s-maj=54.0km s-min=88.5km az=-1.0.
MEX V 29 22 34 30.2–.58 19.07N 104.20W 5 3.7
¶602597885

MEX Error ellipse: s-maj=2.7km s-min=5.4km az=-1.0.
MEX VI 01 15 49 32.6–1.1 18.82N 104.50W 16–13 3.7
¶602597899

MEX Error ellipse: s-maj=8.2km s-min=5.3km az=-1.0.
ISC VI 07 12 13 29.6–1.6 19.4N–.10 105.0W–.10 31–6 13 0-53
IDC VI 07 12 13 23.4–5.5 19.25N 104.87W 0 4.0,3.6b **¶17205483**
ISCJB VI 07 12 13 29.3–1.1 19.47N–.09 105.03W–.07 36–7 3.6b,3.6b
MEX VI 07 12 13 33.0–1.6 19.54N 104.92W 16–91 3.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=124.0km s-min=42.0km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=8.4km az=31.1.
MEX Error ellipse: s-maj=21.3km s-min=23.5km az=-1.0.

(56) Near coast of Michoacan.

MEX I 01 17 06 59.0–.53 18.12N 103.27W 12–3 3.6
¶601135989

MEX Error ellipse: s-maj=8.1km s-min=7.3km az=-1.0.
MEX I 03 11 31 32.9–.30 18.11N 103.43W 3–3 3.7
¶601136701

MEX Error ellipse: s-maj=2.6km s-min=3.1km az=-1.0.
MEX I 04 07 13 19.8–.39 18.11N 103.35W 5–2 3.5
¶601136711

MEX Error ellipse: s-maj=3.4km s-min=3.9km az=-1.0.
MEX I 10 16 23 10.8–.57 18.05N 103.33W 4–5 4.0
¶601136767

MEX Error ellipse: s-maj=5.9km s-min=6.7km az=-1.0.
MEX I 15 22 15 23.8–.71 18.53N 103.34W 16–67 3.6
¶601136787

MEX Error ellipse: s-maj=7.1km s-min=12.8km az=-1.0.

MEX	**I**	**16 20 39 30.7–.34**	**18.65N**	**103.78W**	**12–6**	**3.6**	
MEX	Error ellipse: s-maj=3.4km s-min=6.0km az=-1.0.						
MEX	**I**	**23 04 01 28.0–.54**	**18.00N**	**103.13W**	**8–5**	**3.6**	
MEX	Error ellipse: s-maj=12.1km s-min=15.7km az=-1.0.						
MEX	**I**	**23 11 13 47.7–.86**	**18.17N**	**103.22W**	**5**	**3.5**	
MEX	Error ellipse: s-maj=10.3km s-min=8.5km az=-1.0.						
MEX	**I**	**25 02 59 07.1–.51**	**18.09N**	**103.38W**	**5**	**3.6**	
MEX	Error ellipse: s-maj=4.3km s-min=5.2km az=-1.0.						
MEX	**I**	**27 04 34 53.8–.69**	**18.42N**	**103.25W**	**54–10**	**4.1**	
MEX	Error ellipse: s-maj=6.8km s-min=8.5km az=-1.0.						
MEX	**II**	**02 11 42 59.2–.33**	**18.07N**	**103.38W**	**5–6**	**3.5**	
MEX	Error ellipse: s-maj=3.6km s-min=11.7km az=-1.0.						
MEX	**II**	**04 02 53 20.1–.53**	**18.17N**	**103.43W**	**8–22**	**3.8**	
MEX	Error ellipse: s-maj=11.2km s-min=23.7km az=-1.0.						
MEX	**II**	**06 02 16 43.3–1.3**	**18.25N**	**103.50W**	**4**	**3.8**	
MEX	Error ellipse: s-maj=53.0km s-min=23.0km az=-1.0.						
MEX	**II**	**07 12 42 56.4–.50**	**18.76N**	**103.99W**	**5**	**3.7**	
MEX	Error ellipse: s-maj=5.0km s-min=11.8km az=-1.0.						
MEX	**II**	**09 04 03 26.7–.68**	**18.39N**	**103.22W**	**8–226**	**3.6**	
MEX	Error ellipse: s-maj=181.1km s-min=80.2km az=-1.0.						
MEX	**II**	**10 23 38 00.6–.69**	**18.56N**	**103.48W**	**5**	**3.5**	
MEX	Error ellipse: s-maj=8.6km s-min=18.1km az=-1.0.						
MEX	**II**	**11 04 56 26.4–.30**	**18.12N**	**103.44W**	**5**	**3.6**	
MEX	Error ellipse: s-maj=6.3km s-min=5.4km az=-1.0.						
MEX	**II**	**12 02 00 13.5–.58**	**18.21N**	**103.45W**	**7–5**	**3.8**	
MEX	Error ellipse: s-maj=4.8km s-min=4.1km az=-1.0.						
MEX	**II**	**16 03 19 45.2–.59**	**18.55N**	**103.01W**	**36–33**	**3.6**	
MEX	Error ellipse: s-maj=9.8km s-min=11.6km az=-1.0.						
MEX	**II**	**18 18 16 02.8–.56**	**17.83N**	**102.70W**	**16–11**	**4.1**	
MEX	Error ellipse: s-maj=9.3km s-min=5.4km az=-1.0.						
MEX	**II**	**20 08 58 45.3–.34**	**18.77N**	**103.88W**	**16–68**	**3.9**	
MEX	Error ellipse: s-maj=2.9km s-min=6.6km az=-1.0.						
MEX	**II**	**22 15 18 37.0–.65**	**18.17N**	**103.33W**	**16–6**	**3.5**	
MEX	Error ellipse: s-maj=9.9km s-min=21.2km az=-1.0.						
MEX	**II**	**26 13 13 28.3–.47**	**18.14N**	**103.39W**	**14–4**	**3.5**	
MEX	Error ellipse: s-maj=4.5km s-min=10.0km az=-1.0.						
MEX	**III**	**03 17 39 51.2–.35**	**18.88N**	**103.89W**	**39–6**	**3.6**	
MEX	Error ellipse: s-maj=1.7km s-min=4.1km az=-1.0.						
MEX	**III**	**04 19 49 32.6–.38**	**18.09N**	**103.21W**	**12–2**	**3.6**	
MEX	Error ellipse: s-maj=6.1km s-min=6.0km az=-1.0.						
MEX	**III**	**05 20 54 23.9–.48**	**18.23N**	**103.63W**	**6–10**	**3.9**	
MEX	Error ellipse: s-maj=11.4km s-min=4.6km az=-1.0.						
MEX	**III**	**06 01 46 43.1–.26**	**18.30N**	**103.16W**	**5**	**3.5**	
MEX	Error ellipse: s-maj=2.4km s-min=2.7km az=-1.0.						
MEX	**III**	**06 01 52 50.9–.65**	**17.86N**	**103.22W**	**5**	**3.8**	
MEX	Error ellipse: s-maj=6.4km s-min=5.6km az=-1.0.						
MEX	**III**	**09 23 57 25.6–.53**	**18.12N**	**103.43W**	**4–7**	**3.6**	
MEX	Error ellipse: s-maj=5.2km s-min=6.1km az=-1.0.						
MEX	**III**	**10 10 17 49.9–.31**	**18.11N**	**103.42W**	**5**	**3.6**	
MEX	Error ellipse: s-maj=4.7km s-min=5.8km az=-1.0.						
MEX	**III**	**11 10 58 32.0–.41**	**18.03N**	**103.34W**	**8–3**	**3.6**	
MEX	Error ellipse: s-maj=3.7km s-min=10.1km az=-1.0.						
MEX	**III**	**12 15 55 51.6–.85**	**17.74N**	**103.22W**	**10**	**3.8**	
MEX	Error ellipse: s-maj=8.5km s-min=7.0km az=-1.0.						
MEX	**III**	**12 16 39 20.8–.83**	**17.80N**	**103.04W**	**10**	**3.5**	
MEX	Error ellipse: s-maj=11.9km s-min=22.0km az=-1.0.						
MEX	**III**	**13 03 01 10.5–.31**	**18.08N**	**103.41W**	**4–7**	**3.7**	
MEX	Error ellipse: s-maj=4.5km s-min=10.6km az=-1.0.						
MEX	**III**	**19 08 37 47.7–.73**	**18.17N**	**103.46W**	**7–6**	**3.8**	
MEX	Error ellipse: s-maj=7.4km s-min=5.6km az=-1.0.						
MEX	**III**	**20 09 08 52.1–.25**	**18.07N**	**103.40W**	**5**	**3.6**	
MEX	Error ellipse: s-maj=3.5km s-min=5.9km az=-1.0.						
MEX	**III**	**20 18 51 24.1–.53**	**18.13N**	**103.67W**	**8–6**	**4.0**	
NEIC	III	20 18 51 24.1	18.13N	103.67W	8	4.0	
MEX	Error ellipse: s-maj=5.7km s-min=4.7km az=-1.0.						
NEIC	Event type se. After MEX.						
MEX	**III**	**21 05 04 45.8–.44**	**18.12N**	**103.38W**	**10**	**3.5**	
MEX	Error ellipse: s-maj=5.4km s-min=8.1km az=-1.0.						
MEX	**III**	**24 05 31 06.2–.60**	**18.13N**	**103.37W**	**10**	**3.5**	
MEX	Error ellipse: s-maj=6.2km s-min=6.7km az=-1.0.						
MEX	**III**	**31 09 52 58.6–.60**	**17.97N**	**103.16W**	**5**	**3.6**	
MEX	Error ellipse: s-maj=9.2km s-min=13.7km az=-1.0.						
MEX	**IV**	**01 11 56 49.7–.53**	**18.13N**	**103.40W**	**6**	**3.6**	
MEX	Error ellipse: s-maj=4.6km s-min=4.4km az=-1.0.						
MEX	**IV**	**01 21 59 06.7–.70**	**18.00N**	**102.14W**	**20–13**	**3.9**	
MEX	Error ellipse: s-maj=5.4km s-min=2.5km az=-1.0.						
MEX	**IV**	**09 19 20 17.4–.32**	**18.16N**	**103.50W**	**5**	**3.5**	
MEX	Error ellipse: s-maj=3.3km s-min=1.5km az=-1.0.						
MEX	**IV**	**12 03 06 58.1–.33**	**18.99N**	**103.40W**	**53–7**	**3.7**	
MEX	Error ellipse: s-maj=2.0km s-min=3.4km az=-1.0.						
MEX	**IV**	**13 08 15 14.4–.56**	**18.71N**	**103.68W**	**13–7**	**3.9**	
MEX	Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.						
MEX	**IV**	**22 18 30 50.7–.65**	**18.00N**	**103.18W**	**11–4**	**3.6**	
MEX	Error ellipse: s-maj=10.9km s-min=15.7km az=-1.0.						
MEX	**IV**	**26 20 06 12.3–.92**	**18.42N**	**103.02W**	**52–21**	**3.5**	
MEX	Error ellipse: s-maj=12.0km s-min=15.4km az=-1.0.						
MEX	**IV**	**30 08 22 16.5–.29**	**18.12N**	**103.17W**	**13–3**	**3.8**	
MEX	Error ellipse: s-maj=7.9km s-min=9.1km az=-1.0.						
MEX	**V**	**03 13 16 05.0–.60**	**18.15N**	**103.35W**	**5**	**3.9**	
¶601136791							¶602597597
MEX	Error ellipse: s-maj=4.5km s-min=6.1km az=-1.0.						
MEX	**V**	**04 21 14 41.6–.97**	**17.83N**	**102.49W**	**16–12**	**3.7**	
¶601136842							¶602597610
MEX	Error ellipse: s-maj=13.8km s-min=6.4km az=-1.0.						
MEX	**V**	**07 00 04 48.0–.34**	**19.00N**	**103.39W**	**52–5**	**3.6**	
¶601136845							¶602597631
MEX	Error ellipse: s-maj=1.7km s-min=3.5km az=-1.0.						
MEX	**V**	**07 10 14 33.2–.43**	**17.88N**	**103.20W**	**5**	**3.7**	
¶601136869							¶602597637
MEX	Error ellipse: s-maj=4.3km s-min=3.9km az=-1.0.						
MEX	**V**	**09 22 03 02.4–.44**	**17.97N**	**102.36W**	**5–4**	**4.0**	
¶601136887							¶602597671
MEX	Error ellipse: s-maj=4.8km s-min=2.1km az=-1.0.						
MEX	**V**	**15 18 45 30.8–.51**	**18.05N**	**103.30W**	**3–5**	**3.9**	
¶601136917							¶602597753
MEX	Error ellipse: s-maj=4.8km s-min=5.9km az=-1.0.						
MEX	**V**	**16 06 36 51.2–.55**	**18.47N**	**103.36W**	**50–8**	**3.7**	
¶601136930							¶602597759
MEX	Error ellipse: s-maj=6.5km s-min=9.0km az=-1.0.						
MEX	**V**	**17 13 36 18.6–.52**	**18.18N**	**103.45W**	**5**	**3.5**	
¶601136940							¶602597778
MEX	Error ellipse: s-maj=6.2km s-min=3.1km az=-1.0.						
MEX	**VI**	**23 17 05 31.2–1.0**	**17.77N**	**102.14W**	**20–36**	**4.0**	
NEIC	VI	23 17 05 31.2	17.77N	102.14W	20	4.0	¶16918972
¶601136953	MEX	Error ellipse: s-maj=12.1km s-min=7.3km az=-1.0.					
	NEIC	Event type se. After MEX.					
¶601136964				**(57) Michoacan.**			
MEX	**I**	**25 00 19 23.2–.86**	**18.45N**	**102.69W**	**5–14**	**3.6**	
¶601136868							
MEX	Error ellipse: s-maj=6.3km s-min=8.2km az=-1.0.						
ISC	**I**	**26 06 38 43.9–1.3**	**18.12N–.05**	**102.01W–.03**	**29–14**		**40 1-55**
IDC	I	26 06 38 41.2–9.1	16.90N	101.75W	0	3.7,3.4	¶16135836
MEX	I	26 06 38 46.3–.45	18.15N	102.00W	22–11	4.2,3.4	
NEIC	I	26 06 38 46.3	18.15N	102.00W	22	4.2,3.4	
ISC	Event type se.						
¶601136994	IDC	Error ellipse: s-maj=210.7km s-min=111.0km az=102.0.					
MEX	Error ellipse: s-maj=2.3km s-min=1.7km az=-1.0.						
NEIC	Event type se. After MEX.						
¶601137028	**MEX**	**I**	**28 00 09 19.7–.78**	**19.14N**	**102.04W**	**95–10**	**4.1**
NEIC	I	28 00 09 19.7	19.13N	102.04W	95	4.1	¶16176396
MEX	Error ellipse: s-maj=4.2km s-min=2.4km az=-1.0.						
¶601137049	NEIC	Event type se. After MEX.					
MEX	**II**	**07 05 36 18.5–.37**	**18.36N**	**102.79W**	**16–12**	**3.8**	
¶601136951							
¶601137065	MEX	Error ellipse: s-maj=6.3km s-min=6.8km az=-1.0.					
MEX	**III**	**20 16 41 35.9–.51**	**18.14N**	**102.78W**	**80–10**	**3.9**	
¶601137310							
¶601137086	MEX	Error ellipse: s-maj=9.8km s-min=8.1km az=-1.0.					
ISC	**IV**	**02 14 55 39.0–.91**	**19.19N–.05**	**102.25W–.03**	**110–8**	**3.0b**	**42 0-44**
IDC	IV	02 14 55 18.0–5.1	17.97N	103.91W	0	3.6,3.5	¶16577633
¶601137127	ISCJB	IV	02 14 55 38.6–.54	19.16N–.05	102.25W–.03	111–6	2.9b,3.5
MEX	IV	02 14 55 40.2–1.0	19.19N	102.26W	114–8	4.2,3.5	
NEIC	IV	02 14 55 40.2	19.19N	102.26W	114	4.2,3.5	
¶601137163	ISC	Event type se.					
IDC	Error ellipse: s-maj=105.6km s-min=36.3km az=32.0.						
¶601137170	ISCJB	Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=14.1.					
MEX	Error ellipse: s-maj=4.8km s-min=4.0km az=-1.0.						
NEIC	Event type se. After MEX.						
MEX	**IV**	**07 04 10 51.4–1.1**	**18.08N**	**102.17W**	**16–35**	**3.7**	
¶601137180							¶602595991
MEX	Error ellipse: s-maj=28.7km s-min=13.8km az=-1.0.						
MEX	**IV**	**10 09 49 55.6–.70**	**18.30N**	**102.73W**	**20–87**	**3.9**	
¶601137183							¶602596061
MEX	Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.						
MEX	**IV**	**14 23 06 40.5–.61**	**18.47N**	**102.05W**	**46–30**	**3.9**	
¶601137184							¶602596188
MEX	Error ellipse: s-maj=6.2km s-min=2.8km az=-1.0.						
MEX	**IV**	**29 02 59 26.8–.68**	**18.29N**	**102.64W**	**5**	**3.5**	
¶601137212							¶602596689
MEX	Error ellipse: s-maj=11.2km s-min=4.1km az=-1.0.						
MEX	**V**	**16 04 21 13.5–.46**	**18.24N**	**102.15W**	**16–419**	**3.9**	
¶601137217							¶602597757
MEX	Error ellipse: s-maj=3.4km s-min=1.9km az=-1.0.						
¶601137224				**(58) Near coast of Guerrero.**			
MEX	**I**	**01 05 10 42.1–.31**	**16.49N**	**98.24W**	**8–7**	**3.9**	
¶601135987							
¶601137233	MEX	Error ellipse: s-maj=5.0km s-min=2.2km az=-1.0.					
MEX	**I**	**02 01 55 02.3–.32**	**17.59N**	**101.43W**	**46–3**	**3.9**	
¶601136103							
¶601137234	MEX	Error ellipse: s-maj=5.0km s-min=2.7km az=-1.0.					
MEX	**I**	**02 10 46 28.6–.79**	**16.44N**	**98.41W**	**6–12**	**3.9**	
¶601136109							
¶601137239	MEX	Error ellipse: s-maj=8.5km s-min=4.1km az=-1.0.					
MEX	**I**	**03 00 42 49.6–.76**	**16.85N**	**98.65W**	**16–999**	**3.8**	
¶601136699							
¶601137302	MEX	Error ellipse: s-maj=7.5km s-min=3.2km az=-1.0.					
MEX	**I**	**03 14 19 47.4–.69**	**16.34N**	**99.47W**	**16–22**	**3.7**	
¶601136703							
¶601137308	MEX	Error ellipse: s-maj=22.1km s-min=5.5km az=-1.0.					
MEX	**I**	**03 23 19 34.6–.60**	**16.49N**	**98.54W**	**20–13**	**3.8**	
¶601136706							
¶16512189	MEX	Error ellipse: s-maj=10.2km s-min=4.7km az=-1.0.					
MEX	**I**	**04 03 29 46.7–.56**	**17.38N**	**101.00W**	**10–7**	**3.8**	
¶601136707							
¶601137313	MEX	Error ellipse: s-maj=4.6km s-min=2.1km az=-1.0.					
MEX	**I**	**04 06 00 29.1–.48**	**17.42N**	**101.80W**	**5**	**3.7**	
¶601136709							
¶601137339	MEX	Error ellipse: s-maj=6.0km s-min=7.4km az=-1.0.					
MEX	**I**	**04 07 30 07.5–.64**	**17.43N**	**101.80W**	**5**	**3.9**	
¶601136712							
¶601137431	MEX	Error ellipse: s-maj=5.9km s-min=7.1km az=-1.0.					
MEX	**I**	**04 18 01 54.2–.51**	**17.41N**	**101.01W**	**9–5**	**3.7**	
¶601136717							
¶602595767	MEX	Error ellipse: s-maj=2.7km s-min=1.7km az=-1.0.					
MEX	**I**	**05 06 29 18.8–.40**	**16.36N**	**99.51W**	**10–14**	**3.7**	
¶601136719							
¶602595770	MEX	Error ellipse: s-maj=12.4km s-min=3.3km az=-1.0.					
ISC	**I**	**05 14 45 40.0–.78**	**16.38N–.05**	**98.18W–.04**	**31–5**	**4.5b**	**340 1-141**
MEX	I	05 14 45 38.9–.44	16.27N	98.26W	8–5	4.5	¶16031117
NEIC	I	05 14 45 41.9–.51	16.51N	97.92W	33	4.5,4.5b	
¶602596045	IDC	I	05 14 45 41.5–4.9	16.50N	98.02W	33–35	4.1,4.1
ISC	Event type fe.						
MEX	Error ellipse: s-maj=4.0km s-min=2.5km az=-1.0.						
¶602596121	NEIC	Event type fe. Error ellipse: s-maj=9.7km s-min=5.6km az=213.0. Felt at Oaxaca and Puerto Escondido.					
IDC	Error ellipse: s-maj=34.8km s-min=13.9km az=47.0.						
¶602596146	**ISC**	**I**	**06 03 44 53.2–2.9**	**16.7N–.10**	**98.58W–.05**	**19–7**	**15 1-99**
MEX	I	06 03 44 54.8–.67	16.66N	98.61W	11–11	3.9	¶17189566
IDC	I	06 03 45 00.3–6.3	16.77N	97.99W	0	3.8,3.5b	
¶602596460	ISC	Event type ke.					
MEX	Error ellipse: s-maj=7.7km s-min=4.2km az=-1.0.						
IDC	Error ellipse: s-maj=121.3km s-min=22.2km az=19.0.						
¶602596583	**MEX**	**I**	**06 04 49 20.9–.42**	**17.41N**	**101.61W**	**3–5**	**3.9**
¶601136725							
MEX	Error ellipse: s-maj=4.8km s-min=3.0km az=-1.0.						
¶602596720	**MEX**	**I**	**07 07 21 16.7–.49**	**16.58N**	**98.46W**	**4–8**	**3.8**
¶601136735							
MEX	Error ellipse: s-maj=5.7km s-min=3.1km az=-1.0.						

MEX I 10 12 02 33.5–.37 17.12N 101.25W 23–14 3.9
¶601136766

MEX Error ellipse: s-maj=4.5km s-min=3.9km az=-1.0.
ISC I 10 17 21 42.5–2.3 17.36N–.05 101.16W–.03 7–15 3.5b 34 0-46
MEX I 10 17 21 45.9–.49 17.29N 101.23W 15–5 4.2 **¶17189870**
IDC I 10 17 21 46.2–6.6 18.00N 100.81W 0 3.7,3.5
ISC Event type ke.
MEX Error ellipse: s-maj=3.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=153.5km s-min=22.4km az=24.0.
MEX I 11 13 51 13.8–.36 16.28N 99.48W 17–310 4.2
NEIC I 11 13 51 13.8 16.28N 99.48W 17 4.2 **¶16151074**
MEX Error ellipse: s-maj=6.6km s-min=3.3km az=-1.0.
NEIC Event type se. After MEX.
MEX I 12 16 43 45.9–.35 16.47N 98.51W 16–8 3.9
¶601136776

MEX Error ellipse: s-maj=8.0km s-min=3.1km az=-1.0.
MEX I 15 11 35 37.3–.44 16.73N 100.71W 22–11 4.2
NEIC I 15 11 35 36.1 16.65N 100.72W 15 4.2 **¶16057167**
MEX Error ellipse: s-maj=4.7km s-min=4.5km az=-1.0.
NEIC Event type se. After MEX.
MEX I 16 06 28 52.4–.90 17.10N 101.21W 25–18 4.0
NEIC I 16 06 28 52.4 17.10N 101.21W 25 4.0 **¶16158968**
MEX Error ellipse: s-maj=7.5km s-min=5.4km az=-1.0.
NEIC Event type se. After MEX.
MEX I 17 01 17 01.0–.51 16.12N 98.13W 4–4 3.7
¶601136793

MEX Error ellipse: s-maj=3.8km s-min=3.8km az=-1.0.
MEX I 17 02 36 03.8–.36 17.31N 101.38W 15 3.7
¶601136794

MEX Error ellipse: s-maj=2.7km s-min=2.5km az=-1.0.
MEX I 18 07 10 44.5–.50 16.35N 98.05W 30–4 3.7
¶601136800

MEX Error ellipse: s-maj=4.1km s-min=3.4km az=-1.0.
MEX I 19 14 37 09.6–.34 16.02N 98.13W 4–2 3.9
¶601136808

MEX Error ellipse: s-maj=2.6km s-min=2.0km az=-1.0.
MEX I 20 23 02 47.1–.93 17.86N 101.69W 15 3.7
¶601136820

MEX Error ellipse: s-maj=6.4km s-min=4.8km az=-1.0.
MEX I 21 00 41 14.8–.45 16.65N 99.67W 31–7 3.6
¶601136822

MEX Error ellipse: s-maj=4.7km s-min=2.8km az=-1.0.
MEX I 22 22 18 41.4–.43 16.26N 98.09W 9–6 4.0
NEIC I 22 22 18 41.4 16.26N 98.09W 9 4.0 **¶16160589**
MEX Error ellipse: s-maj=4.3km s-min=2.9km az=-1.0.
NEIC Event type se. After MEX.
MEX I 23 18 01 55.9–.33 16.70N 98.66W 20–142 3.6
¶601136849

MEX Error ellipse: s-maj=6.4km s-min=2.5km az=-1.0.
MEX I 24 04 40 30.9–.39 16.40N 98.51W 16–7 3.5
¶601136859

MEX Error ellipse: s-maj=4.9km s-min=3.5km az=-1.0.
MEX I 26 06 34 11.1–.69 17.17N 101.24W 15–6 3.9
¶601136879

MEX Error ellipse: s-maj=5.0km s-min=4.6km az=-1.0.
MEX I 27 03 36 29.4–.46 16.19N 98.21W 16–10 3.8
¶601136884

MEX Error ellipse: s-maj=7.7km s-min=5.0km az=-1.0.
MEX I 28 09 38 38.8–.61 16.91N 99.22W 16–10 3.8
¶601136894

MEX Error ellipse: s-maj=6.3km s-min=3.4km az=-1.0.
MEX I 28 10 59 09.5–.32 16.49N 98.29W 4–12 3.7
¶601136895

MEX Error ellipse: s-maj=10.2km s-min=4.5km az=-1.0.
MEX I 28 12 23 33.2–.41 17.25N 101.08W 26–19 3.6
¶601136896

MEX Error ellipse: s-maj=4.5km s-min=3.6km az=-1.0.
MEX I 30 00 17 51.1–.41 17.80N 101.42W 32–3 3.7
¶601136903

MEX Error ellipse: s-maj=2.4km s-min=1.7km az=-1.0.
MEX I 31 19 12 03.6–.84 17.45N 101.01W 26–26 3.7
¶601136908

MEX Error ellipse: s-maj=6.0km s-min=4.9km az=-1.0.
MEX II 03 05 12 44.8–.59 16.82N 99.89W 37–6 4.1
NEIC II 03 05 12 44.8 16.82N 99.89W 37 4.1 **¶16328659**
MEX Error ellipse: s-maj=6.2km s-min=3.0km az=-1.0.
NEIC Event type se. After MEX.
MEX II 05 13 30 10.8–.74 16.13N 98.07W 67–52 3.7
¶601136938

MEX Error ellipse: s-maj=16.8km s-min=6.5km az=-1.0.
MEX II 06 02 24 08.2–.47 16.60N 100.42W 2–3 3.9
¶601136941

MEX Error ellipse: s-maj=3.7km s-min=3.4km az=-1.0.
MEX II 06 04 59 05.0–.50 16.63N 100.50W 5–4 4.0
¶601136942

MEX Error ellipse: s-maj=5.1km s-min=5.7km az=-1.0.
MEX II 06 13 46 18.2–.75 16.36N 99.26W 16–23 3.6
¶601136944

MEX Error ellipse: s-maj=21.5km s-min=6.3km az=-1.0.
MEX II 07 12 25 47.0–.25 16.83N 100.11W 8–3 3.8
¶601136952

MEX Error ellipse: s-maj=3.8km s-min=3.1km az=-1.0.
ISC II 07 17 24 32.1–2.2 16.17N–.06 99.14W–.03 3–14 4.5b,3.5s 317 1-100
IDC II 07 17 24 29.6–1.3 15.90N 98.90W 0 4.4,4.2b **¶16029775**
NEIC II 07 17 24 36.4 16.22N 99.11W 20 4.4,4.4b
MEX II 07 17 24 36.4–1.1 16.22N 99.11W 20–57 4.4,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=18.1km az=43.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=16.9km s-min=7.7km az=-1.0.
ISC II 07 17 48 35.7–1.3 16.11N–.10 98.75W–.06 17 3.7b 15 1-58
IDC II 07 17 48 30.2–6.3 15.74N 98.35W 0 4.0,3.7 **¶17191868**
MEX II 07 17 48 38.4–1.2 16.19N 99.11W 20–147 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=141.7km s-min=108.3km az=50.0.
MEX Error ellipse: s-maj=18.7km s-min=8.7km az=-1.0.
MEX II 09 17 36 10.8–1.7 16.61N 98.94W 16–67 3.9
¶601136971

MEX Error ellipse: s-maj=47.7km s-min=20.3km az=-1.0.
MEX II 10 09 57 36.7–.85 16.95N 100.22W 10 3.6
¶601136978

MEX Error ellipse: s-maj=15.8km s-min=8.3km az=-1.0.
MEX II 10 14 41 30.2–.31 16.94N 100.15W 9–3 3.9
¶601136980

MEX Error ellipse: s-maj=5.2km s-min=3.2km az=-1.0.
MEX II 14 07 43 02.9–.60 16.89N 100.20W 5 3.9
¶601137013

MEX Error ellipse: s-maj=5.3km s-min=5.0km az=-1.0.
MEX II 14 08 26 51.2–.63 16.87N 100.24W 4–5 3.8
¶601137015

MEX Error ellipse: s-maj=4.7km s-min=3.7km az=-1.0.
ISC II 14 23 01 23.1–2.0 16.24N–.06 98.66W–.04 10–12 3.6b 42 1-130
IDC II 14 23 01 21.6–2.5 16.51N 97.86W 0 3.8,3.6 **¶16398214**
NEIC II 14 23 01 24.7 16.17N 98.67W 6 4.1,3.6
MEX II 14 23 01 24.7–.70 16.17N 98.67W 6–11 4.1,3.6
ISC Event type se.
IDC Error ellipse: s-maj=149.5km s-min=39.0km az=76.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=8.8km s-min=3.4km az=-1.0.
MEX II 16 05 26 52.6–.69 16.27N 98.61W 21–24 4.1
NEIC II 16 05 26 52.6 16.27N 98.61W 21 4.1 **¶16405091**

MEX Error ellipse: s-maj=7.1km s-min=4.0km az=-1.0.
NEIC Event type se. After MEX.
MEX II 16 23 55 43.9–.80 17.06N 101.39W 16–20 3.8
¶601137036

MEX Error ellipse: s-maj=14.8km s-min=13.0km az=-1.0.
ISC II 17 08 00 45.6–1.6 16.37N–.06 99.98W–.04 8–10 3.6b 43 1-58
ISCJB II 17 08 00 46.0–1.1 16.38N–.05 99.96W–.04 26–6 3.5b **¶16358620**
NEIC II 17 08 00 48.0 16.36N 100.05W 25 4.2
MEX II 17 08 00 48.0–.63 16.36N 100.05W 25–11 4.2
IDC II 17 08 00 49.5–3.5 16.96N 99.64W 0 3.9,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=5.6km az=29.1.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=4.7km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=80.1km s-min=23.7km az=28.0.
MEX II 17 12 36 37.2–.64 17.40N 101.17W 16–8 3.7
¶601137039

MEX Error ellipse: s-maj=5.3km s-min=2.8km az=-1.0.
MEX II 17 17 41 46.9–.79 16.23N 99.36W 17–11 4.0
¶601137041

MEX Error ellipse: s-maj=8.7km s-min=4.2km az=-1.0.
MEX II 18 03 28 58.8–.84 16.33N 99.38W 16–23 3.8
¶601137044

MEX Error ellipse: s-maj=15.8km s-min=6.5km az=-1.0.
MEX II 21 13 18 18.9–.48 17.60N 101.32W 38–6 4.2
¶601137076

MEX Error ellipse: s-maj=13.3km s-min=3.9km az=-1.0.
MEX II 22 05 52 36.9–.90 17.85N 101.66W 20–145 4.1
¶601137083

MEX Error ellipse: s-maj=24.2km s-min=6.2km az=-1.0.
MEX II 23 02 44 10.8–1.3 16.25N 98.06W 5–8 3.9
¶601137093

MEX Error ellipse: s-maj=9.2km s-min=10.0km az=-1.0.
MEX II 24 00 03 05.2–.36 16.85N 100.27W 3 4.1
¶601137102

MEX Error ellipse: s-maj=2.3km s-min=2.3km az=-1.0.
MEX II 24 13 09 11.9–.29 17.24N 101.22W 28–19 3.8
¶601137108

MEX Error ellipse: s-maj=5.5km s-min=4.8km az=-1.0.
MEX III 01 01 46 54.2–.51 17.67N 101.26W 52–3 3.9
¶601137144

MEX Error ellipse: s-maj=3.1km s-min=2.0km az=-1.0.
MEX III 01 05 58 20.0–.98 16.85N 100.10W 5 3.8
¶601137145

MEX Error ellipse: s-maj=7.4km s-min=3.3km az=-1.0.
MEX III 01 10 41 40.2–.71 16.79N 100.14W 5 3.8
¶601137147

MEX Error ellipse: s-maj=10.4km s-min=3.9km az=-1.0.
MEX III 02 00 35 43.3–.47 17.71N 101.02W 59–6 3.7
¶601137150

MEX Error ellipse: s-maj=2.6km s-min=2.5km az=-1.0.
MEX III 02 12 11 36.1–.47 16.70N 99.64W 11–3 3.9
¶601137155

MEX Error ellipse: s-maj=4.9km s-min=2.0km az=-1.0.
MEX III 04 02 07 42.8–.66 16.05N 98.11W 4–4 3.8
¶601137165

MEX Error ellipse: s-maj=4.5km s-min=4.7km az=-1.0.
MEX III 04 21 24 26.5–.53 16.76N 100.19W 5 3.6
¶601137171

MEX Error ellipse: s-maj=5.2km s-min=3.3km az=-1.0.
MEX III 05 04 10 16.5–.67 16.63N 99.72W 7–5 4.0
NEIC III 05 04 10 16.5 16.63N 99.72W 7 4.0 **¶16453086**
MEX Error ellipse: s-maj=5.4km s-min=3.4km az=-1.0.
NEIC Event type se. After MEX.
MEX III 05 04 48 12.2–.82 16.52N 99.03W 16–999 4.0
NEIC III 05 04 48 12.2 16.52N 99.03W 16 4.0 **¶16453087**
MEX Error ellipse: s-maj=7.6km s-min=4.2km az=-1.0.
NEIC Event type se. After MEX.
MEX III 05 10 45 11.1–.66 16.80N 98.60W 16–7 4.2
NEIC III 05 10 45 11.1 16.80N 98.60W 16 4.2 **¶16445691**
MEX Error ellipse: s-maj=2.5km s-min=3.1km az=-1.0.
NEIC Event type se. After MEX.
MEX III 06 00 12 52.2–.29 16.30N 98.15W 28–3 3.7
¶601137182

MEX Error ellipse: s-maj=4.2km s-min=5.8km az=-1.0.
MEX III 06 06 04 46.8–.37 16.47N 98.44W 12–14 3.9
¶601137185

MEX Error ellipse: s-maj=15.4km s-min=6.4km az=-1.0.
MEX III 06 16 44 46.5–.76 16.70N 99.91W 28–9 3.7
¶601137188

MEX Error ellipse: s-maj=7.1km s-min=4.4km az=-1.0.
MEX III 06 18 50 04.2–.96 17.74N 101.47W 31–8 3.6
¶601137189

MEX Error ellipse: s-maj=7.2km s-min=4.5km az=-1.0.
MEX III 06 19 30 35.5–.48 17.57N 101.42W 54–4 3.9
¶601137190

MEX Error ellipse: s-maj=7.5km s-min=4.3km az=-1.0.
MEX III 08 01 16 18.0–.31 16.20N 98.17W 11–2 3.7
¶601137197

MEX Error ellipse: s-maj=3.0km s-min=2.6km az=-1.0.
MEX III 08 09 35 25.8–.62 17.33N 101.29W 13–11 4.0
NEIC III 08 09 35 25.8 17.33N 101.29W 13 4.3b,4.0 **¶16449411**
MEX Error ellipse: s-maj=7.2km s-min=3.9km az=-1.0.
NEIC Event type se. After MEX.
MEX III 10 01 02 36.9–.49 16.94N 99.84W 36–6 3.8
¶601137215

MEX Error ellipse: s-maj=4.7km s-min=2.5km az=-1.0.
MEX III 12 06 07 56.5–.27 17.98N 101.91W 29–2 3.9
¶601137231

MEX Error ellipse: s-maj=1.7km s-min=1.1km az=-1.0.
MEX III 12 23 08 49.0–.45 16.51N 98.47W 15–5 3.7
¶601137235

MEX Error ellipse: s-maj=2.5km s-min=2.1km az=-1.0.
MEX III 14 08 37 31.1–.46 16.61N 99.73W 17–6 3.9
¶601137249

MEX Error ellipse: s-maj=5.3km s-min=2.5km az=-1.0.
MEX III 15 20 24 27.6–.69 16.63N 100.38W 5 3.9
¶601137261

MEX Error ellipse: s-maj=5.0km s-min=3.9km az=-1.0.
MEX III 17 06 19 27.5–.47 16.59N 99.01W 8–5 3.7
¶601137280

MEX Error ellipse: s-maj=2.8km s-min=2.2km az=-1.0.
MEX III 17 10 27 38.9–.71 16.70N 99.97W 5 4.0
NEIC III 17 10 27 38.9 16.70N 99.97W 5 4.0 **¶16509586**
MEX Error ellipse: s-maj=4.9km s-min=3.3km az=-1.0.
NEIC Event type se. After MEX.
MEX III 17 23 01 42.5–.30 16.31N 98.42W 23–8 3.9
¶601137284

MEX Error ellipse: s-maj=2.4km s-min=2.0km az=-1.0.
MEX III 19 01 00 34.8–.72 16.71N 99.94W 5 3.7
¶601137300

MEX Error ellipse: s-maj=4.2km s-min=2.9km az=-1.0.
MEX III 20 07 35 33.7–.43 16.27N 98.27W 6–3 4.2
NEIC III 20 07 35 33.7 16.27N 98.27W 6 4.2 **¶16487899**
MEX Error ellipse: s-maj=3.3km s-min=2.5km az=-1.0.
NEIC Event type se. After MEX.
MEX III 21 15 41 44.2–.51 16.49N 99.03W 13–5 3.5
¶601137316

MEX Error ellipse: s-maj=3.2km s-min=2.2km az=-1.0.
MEX III 22 02 10 06.6–.34 16.70N 99.75W 12–2 3.8
¶601137318

MEX Error ellipse: s-maj=3.2km s-min=1.9km az=-1.0.
MEX III 22 04 21 35.0–.39 16.69N 99.75W 11–2 3.6
¶601137320

MEX Error ellipse: s-maj=3.8km s-min=2.4km az=-1.0.
MEX III 22 05 06 54.4–.46 16.80N 99.68W 15–3 3.6
¶601137321

MEX Error ellipse: s-maj=6.4km s-min=3.5km az=-1.0.
MEX III 22 23 05 13.9–.66 16.86N 99.63W 10 3.9
¶601137325

MEX Error ellipse: s-maj=8.5km s-min=4.4km az=-1.0.
MEX III 23 06 15 10.9–.83 16.96N 100.22W 28–5 4.1
NEIC III 23 06 15 10.9 16.96N 100.22W 28 4.1 ¶16525074
MEX Error ellipse: s-maj=6.8km s-min=5.2km az=-1.0.
NEIC Event type se. After MEX.
MEX III 23 11 53 19.4–.55 16.34N 98.01W 5 4.1
NEIC III 23 11 53 19.4 16.34N 98.01W 5 4.1 ¶16487904
MEX Error ellipse: s-maj=4.3km s-min=2.0km az=-1.0.
NEIC Event type se. After MEX.
MEX III 26 04 03 44.6–.55 16.95N 100.32W 4–4 3.8
¶601137356

MEX Error ellipse: s-maj=4.7km s-min=5.1km az=-1.0.
MEX III 26 21 18 29.7–.39 17.76N 101.30W 57–5 3.8
¶601137359

MEX Error ellipse: s-maj=2.6km s-min=3.0km az=-1.0.
MEX III 27 03 56 47.8–.81 16.69N 99.75W 8–4 3.7
¶601137361

MEX Error ellipse: s-maj=5.2km s-min=4.0km az=-1.0.
MEX III 27 05 39 37.4–.61 16.71N 99.74W 10–3 3.7
¶601137363

MEX Error ellipse: s-maj=4.6km s-min=3.0km az=-1.0.
MEX III 27 06 54 26.8–.71 16.71N 99.74W 9–3 3.6
¶601137369

MEX Error ellipse: s-maj=5.1km s-min=4.5km az=-1.0.
MEX III 28 15 46 30.2–.68 16.74N 99.89W 30–4 3.6
¶601137382

MEX Error ellipse: s-maj=6.9km s-min=3.7km az=-1.0.
MEX III 29 06 21 56.5–.84 16.69N 99.75W 8–3 3.8
¶601137392

MEX Error ellipse: s-maj=4.7km s-min=3.1km az=-1.0.
MEX III 30 01 24 37.7–.54 16.21N 98.08W 5 3.5
¶601137402

MEX Error ellipse: s-maj=4.4km s-min=3.6km az=-1.0.
MEX III 30 07 59 02.7–.33 17.67N 101.28W 54–3 3.6
¶601137410

MEX Error ellipse: s-maj=3.7km s-min=2.8km az=-1.0.
MEX IV 01 13 41 34.2–.64 16.65N 99.72W 5 4.3
NEIC IV 01 13 41 34.2 16.65N 99.72W 5 4.2b ¶16577630
MEX Error ellipse: s-maj=3.1km s-min=2.0km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 01 17 53 07.7–.33 17.96N 101.51W 5 3.9
¶602595769

MEX Error ellipse: s-maj=1.8km s-min=3.3km az=-1.0.
MEX IV 02 09 52 31.9–.98 16.82N 100.11W 5 3.9
¶602595800

MEX Error ellipse: s-maj=8.4km s-min=3.4km az=-1.0.
MEX IV 03 17 16 53.1–.34 16.42N 99.60W 14–51 3.6
¶602595854

MEX Error ellipse: s-maj=41.5km s-min=3.7km az=-1.0.
MEX IV 04 15 28 44.9–.49 16.39N 99.68W 4 3.7
¶602595905

MEX Error ellipse: s-maj=5.1km s-min=10.1km az=-1.0.
MEX IV 04 22 37 27.0–.40 16.37N 99.57W 18 3.9
¶602595907

MEX Error ellipse: s-maj=8.0km s-min=4.7km az=-1.0.
MEX IV 06 08 42 45.2–.34 16.18N 98.37W 2–12 3.7
¶602595964

MEX Error ellipse: s-maj=12.2km s-min=9.7km az=-1.0.
ISC IV 07 20 15 03.7–2.0 16.25N–.07 99.31W–.04 17–12 3.5b 40 1-47
ISCJB IV 07 20 15 04.0–1.1 16.23N–.06 99.31W–.04 27–8 3.5b ¶16577736
MEX IV 07 20 15 07.0–.46 16.21N 99.31W 18–30 4.0
NEIC IV 07 20 15 07.0 16.21N 99.31W 18 4.0
IDC IV 07 20 15 18.2–25 18.75N 97.22W 0 3.9,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=5.5km az=25.0.
MEX Error ellipse: s-maj=5.1km s-min=3.0km az=-1.0.
NEIC Event type se. After MEX.
IDC Error ellipse: s-maj=438.3km s-min=84.0km az=166.0.
MEX IV 07 20 18 43.7–.54 16.35N 99.66W 10 3.9
¶602595999

MEX Error ellipse: s-maj=4.3km s-min=3.3km az=-1.0.
ISC IV 07 22 45 58.7–1.5 16.43N–.10 99.29W–.06 9–11 3.5b 26 1-47
IDC IV 07 22 45 48.0–8.9 15.69N 97.32W 0 3.9,3.5 ¶16577739
ISCJB IV 07 22 45 56.4–1.2 16.29N–.08 99.34W–.05 18–9 3.3b,3.5
MEX IV 07 22 45 58.5–.87 16.25N 99.41W 12–20 4.0,3.5
NEIC IV 07 22 45 58.5 16.25N 99.41W 12 4.0,3.5
ISC Event type se.
IDC Error ellipse: s-maj=166.5km s-min=125.3km az=24.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=6.0km az=22.4.
MEX Error ellipse: s-maj=16.5km s-min=7.0km az=-1.0.
NEIC Event type se. After MEX.
ISC IV 07 22 50 28.4–1.7 16.2N–.10 99.74W–.09 23 3.2b 13 1-47
MEX IV 07 22 50 26.8–.28 16.31N 99.38W 10 3.6 ¶17200175
IDC IV 07 22 50 36.9–8.5 18.01N 98.68W 0 3.8,3.5
ISC Event type ke.
MEX Error ellipse: s-maj=9.6km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=149.2km s-min=124.1km az=30.0.
ISC IV 07 22 55 36.3–2.3 16.40N–.10 99.32W–.05 16–14 3.8b 18 1-58
ISCJB IV 07 22 55 36.9–1.0 16.45N–.06 99.31W–.04 17–7 3.6b,3.3s ¶602596000
MEX IV 07 22 55 39.4–.62 16.37N 99.37W 17–999 3.8,3.3s
IDC IV 07 22 55 50.3–12 18.37N 99.21W 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.8km az=11.7.
MEX Error ellipse: s-maj=15.0km s-min=6.6km az=-1.0.
IDC Error ellipse: s-maj=226.8km s-min=89.2km az=165.0.
MEX IV 08 00 51 58.6–.74 16.26N 99.41W 10 3.5
¶602596005

MEX Error ellipse: s-maj=11.9km s-min=6.9km az=-1.0.
MEX IV 08 03 31 16.9–.94 16.19N 99.47W 6–21 3.5
¶602596006

MEX Error ellipse: s-maj=14.1km s-min=5.3km az=-1.0.
MEX IV 08 03 36 23.7–.87 16.06N 99.41W 4–19 3.8
¶602596007

MEX Error ellipse: s-maj=13.1km s-min=5.5km az=-1.0.
MEX IV 08 17 10 50.9–.37 16.70N 99.12W 26–25 3.6
¶602596011

MEX Error ellipse: s-maj=2.3km s-min=1.4km az=-1.0.
MEX IV 09 06 25 42.5–.32 17.32N 101.31W 10–2 3.8
¶602596041

MEX Error ellipse: s-maj=1.8km s-min=2.3km az=-1.0.
ISC IV 10 09 25 21.6–1.7 16.28N–.07 99.40W–.03 1–10 3.9b 54 1-58
MEX IV 10 09 25 25.6–.64 16.20N 99.43W 17–33 4.2 ¶16577778
NEIC IV 10 09 25 25.6 16.20N 99.43W 17 4.2
IDC IV 10 09 25 25.4–6.3 16.53N 99.11W 0 4.1,3.9b
ISC Event type se.
MEX Error ellipse: s-maj=4.2km s-min=2.6km az=-1.0.
NEIC Event type se. After MEX.
IDC Error ellipse: s-maj=117.9km s-min=37.5km az=5.0.
MEX IV 10 09 29 26.8–.75 16.26N 99.42W 16–20 3.7
¶602596060

MEX Error ellipse: s-maj=15.9km s-min=6.8km az=-1.0.
MEX IV 13 05 26 48.4–.34 16.74N 99.74W 16–4 3.7
¶602596145

MEX Error ellipse: s-maj=2.9km s-min=1.5km az=-1.0.
MEX IV 14 20 44 23.8–.70 17.79N 101.29W 28–9 3.7
¶602596186

MEX Error ellipse: s-maj=5.7km s-min=2.7km az=-1.0.
MEX IV 15 05 08 56.0–.69 17.97N 101.76W 37–32 3.7
¶602596199

MEX Error ellipse: s-maj=13.9km s-min=4.2km az=-1.0.
MEX IV 15 22 26 13.4–.52 16.22N 98.11W 5 3.6
¶602596207

MEX Error ellipse: s-maj=8.6km s-min=19.6km az=-1.0.
MEX IV 15 22 56 45.5–.35 16.47N 98.29W 5 3.5
¶602596208

MEX Error ellipse: s-maj=10.3km s-min=10.0km az=-1.0.
MEX IV 16 06 13 38.3–.60 16.70N 98.57W 17–999 3.7
¶602596248

MEX Error ellipse: s-maj=8.2km s-min=17.8km az=-1.0.
MEX IV 16 17 26 14.9–.52 16.84N 100.74W 20–51 3.5
¶602596253

MEX Error ellipse: s-maj=44.0km s-min=10.4km az=-1.0.
MEX IV 18 14 43 13.1–.42 16.64N 99.72W 20–28 3.6
¶602596307

MEX Error ellipse: s-maj=8.4km s-min=6.1km az=-1.0.
ISC IV 19 02 00 15.5–1.5 16.3N–.10 98.96W–.07 16 3.9b 21 1-58
IDC IV 19 02 00 07.7–3.4 15.93N 97.47W 0 4.1,3.8 ¶16577850
NEIC IV 19 02 00 10.2 15.70N 99.26W 19 4.1,4.0b
MEX IV 19 02 00 10.2–.48 15.70N 99.26W 19–24 4.1,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=102.0km s-min=27.9km az=39.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=8.0km s-min=8.3km az=-1.0.
MEX IV 19 08 13 27.5–.46 16.22N 98.36W 3 3.8
¶602596351

MEX Error ellipse: s-maj=9.0km s-min=6.2km az=-1.0.
MEX IV 19 10 03 18.1–.91 16.24N 98.35W 5 3.5
¶602596352

MEX Error ellipse: s-maj=19.3km s-min=16.6km az=-1.0.
MEX IV 20 07 22 40.4–.34 16.22N 98.07W 14–2 3.9
¶602596379

MEX Error ellipse: s-maj=3.6km s-min=2.5km az=-1.0.
MEX IV 20 22 06 46.7–.89 16.54N 98.00W 16–7 3.8
¶602596389

MEX Error ellipse: s-maj=5.4km s-min=4.1km az=-1.0.
MEX IV 21 18 13 00.8–.30 17.37N 101.00W 9–11 3.6
¶602596421

MEX Error ellipse: s-maj=4.3km s-min=3.3km az=-1.0.
MEX IV 21 23 19 54.6–.29 16.41N 98.32W 44–6 3.7
¶602596425

MEX Error ellipse: s-maj=8.7km s-min=5.0km az=-1.0.
MEX IV 22 08 20 37.0–.33 17.34N 101.27W 28–137 3.5
¶602596456

MEX Error ellipse: s-maj=61.2km s-min=43.3km az=-1.0.
MEX IV 22 23 33 48.5–.96 16.48N 99.04W 16–999 3.7
¶602596464

MEX Error ellipse: s-maj=7.2km s-min=5.5km az=-1.0.
MEX IV 23 07 47 14.3–.80 17.43N 101.36W 12–17 3.8
¶602596480

MEX Error ellipse: s-maj=6.6km s-min=15.4km az=-1.0.
MEX IV 23 09 39 15.9–.65 16.39N 99.60W 16–12 3.8
¶602596481

MEX Error ellipse: s-maj=10.8km s-min=4.5km az=-1.0.
MEX IV 23 13 57 11.1–.30 17.80N 101.47W 32–6 3.7
¶602596482

MEX Error ellipse: s-maj=4.9km s-min=5.4km az=-1.0.
MEX IV 23 21 48 16.4–.59 16.28N 98.17W 10–3 3.7
¶602596485

MEX Error ellipse: s-maj=6.7km s-min=5.5km az=-1.0.
MEX IV 24 05 24 11.3–.75 16.45N 99.33W 16–16 3.8
¶602596523

MEX Error ellipse: s-maj=10.8km s-min=5.4km az=-1.0.
MEX IV 24 06 34 49.5–.55 16.47N 98.33W 9–4 3.9
¶602596524

MEX Error ellipse: s-maj=4.8km s-min=2.8km az=-1.0.
MEX IV 24 14 37 25.7–.52 17.71N 101.24W 46–7 3.5
¶602596527

MEX Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0.
MEX IV 25 10 52 32.7–.77 17.59N 101.24W 40–5 3.7
¶602596547

MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.
MEX IV 26 01 20 46.5–.63 17.37N 101.22W 23–9 3.7
¶602596564

MEX Error ellipse: s-maj=6.0km s-min=3.7km az=-1.0.
ISC IV 26 11 07 28.2–.43 16.97N–.02 99.59W–.02 19–1 5.2b,4.9s 1073 0-153
IDC IV 26 11 07 24.7–.55 16.84N 99.48W 0 4.8,4.8 ¶16460262
ISCJB IV 26 11 07 25.8–.17 16.99N–.02 99.40W–.02 10 5.2b,4.9s
GCMT IV 26 11 07 27.0–.20 16.91N 99.45W 23–0 5.4W,4.9s
NEIC IV 26 11 07 27.0–.18 16.85N 99.47W 11 5.5,5.5W
MOS IV 26 11 07 28.8–.99 16.92N 99.37W 33 5.4b,4.9s
MEX IV 26 11 07 28.0–1.0 16.71N 99.68W 8–4 5.5,4.9s
BJI IV 26 11 07 29.5 17.10N 99.40W 20 5.5s,5.4b
ISC Event type fe.
IDC Error ellipse: s-maj=17.2km s-min=10.4km az=48.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=13.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c108; s106,c191; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10±.04 $M_{\theta\theta}$-0.91±.02; $M_{\phi\phi}$-0.19±.02; $M_{r\theta}$0.85±.04; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$-0.63±.04; Best double couple: NP1:ϕ_s121.00000°,δ68.00000° ,λ98.00000°. NP2:ϕ_s281.00000°,δ24.00000°,λ72.00000°. Principal axes: T 1.5580,Plg66.0000°,Azm45.0000°; N -0.1280,Plg7.0000°,Azm298.0000° ; P -1.4340,Plg22.0000°,Azm205.0000° $M_0$1.49600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=202.0. Felt [V] at Acapulco and [II] at Mexico. Also felt at Acambay, Acamixtla, Cuernavaca, Huixquilucan, Oaxaca, Puebla and San Jeronimo. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.53 $M_{\theta\theta}$-2.32 $M_{\phi\phi}$0.79 $M_{r\theta}$-0.02 $M_{\theta\phi}$1.04 $M_{\phi r}$-0.73 Best double couple: NP1:ϕ_s137.00000° ,δ58.00000°,λ135.00000°. NP2:ϕ_s256.00000°,δ53.00000°,λ42.00000°. Principal axes: T 2.0500,Plg53.0000°,Azm104.0000°; N 0.5900,Plg36.0000°,Azm289.0000° ; P -2.6400,Plg3.0000°,Azm197.0000° $M_0$2.40000×10^{17}
MOS Error ellipse: s-maj=8.7km s-min=3.9km az=96.8.
MEX Error ellipse: s-maj=5.2km s-min=3.5km az=-1.0.
ISC IV 26 11 18 30.7–1.3 16.79N–.03 99.61W–.02 5–8 4.6b 400 0-146
IDC IV 26 11 18 30.3–1.1 16.87N 99.49W 0 4.4,4.3b ¶16476089
ISCJB IV 26 11 18 32.1–.61 16.79N–.03 99.55W–.02 23–4 4.8s,4.5b
NEIC IV 26 11 18 32.5–1.1 16.78N 99.50W 13–6 4.6b,4.3
MEX IV 26 11 18 33.6–.95 16.70N 99.69W 9–4 4.3,4.3
ISC Event type fe.
IDC Error ellipse: s-maj=26.2km s-min=15.8km az=33.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=4.1.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=5.0km az=199.0. Felt at Mexico and Oaxaca.
MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.
MEX IV 26 11 54 53.3–.76 16.68N 99.70W 6–4 3.5
¶602596576

MEX Error ellipse: s-maj=5.2km s-min=3.7km az=-1.0.
MEX IV 27 07 23 21.7–.44 16.69N 99.69W 7–2 3.7
¶602596618

MEX Error ellipse: s-maj=3.0km s-min=2.0km az=-1.0.
MEX IV 27 08 20 36.5–.44 16.69N 99.69W 6–3 3.7
¶602596620

MEX Error ellipse: s-maj=4.4km s-min=2.9km az=-1.0.
MEX IV 27 23 37 14.0–.33 16.55N 98.47W 5 3.8
¶602596633

MEX Error ellipse: s-maj=3.1km s-min=2.1km az=-1.0.

MEX IV 30 16 42 28.7–.41 16.21N 98.07W 7–3 3.7
¶602596723

MEX Error ellipse: s-maj=4.1km s-min=3.7km az=-1.0.
MEX V 01 15 04 58.9–.68 16.22N 98.09W 5–5 3.7
¶602597580

MEX Error ellipse: s-maj=4.7km s-min=4.9km az=-1.0.
MEX V 02 07 20 41.8–.32 16.32N 98.31W 12–2 3.7
¶602597588

MEX Error ellipse: s-maj=4.4km s-min=2.7km az=-1.0.
MEX V 03 21 38 38.5–.45 16.68N 99.67W 16–7 3.5
¶602597601

MEX Error ellipse: s-maj=5.1km s-min=2.3km az=-1.0.
MEX V 04 06 58 30.3–.82 16.43N 99.58W 16–13 3.5
¶602597607

MEX Error ellipse: s-maj=8.5km s-min=4.1km az=-1.0.
MEX V 05 04 48 33.2–.33 16.20N 98.09W 3–3 3.9
¶602597613

MEX Error ellipse: s-maj=2.8km s-min=2.7km az=-1.0.
MEX V 05 11 35 58.5–.41 16.21N 98.34W 3–3 3.8
¶602597617

MEX Error ellipse: s-maj=3.2km s-min=2.1km az=-1.0.
ISC V 05 13 24 07.6–.42 16.70N–.03 98.80W–.02 32–2 5.4s,5.3b 1203 1-167
IDC V 05 13 24 02.9–.50 16.70N 98.76W 0 5.3,5.3s **¶16497740**
BJI V 05 13 24 05.3 16.80N 98.60W 24 5.7s,5.6b
NEIC V 05 13 24 06.0–.00 16.81N 98.59W 20 5.7s,5.6b
GCMT V 05 13 24 07.8–.10 16.85N 98.72W 31–0 5.7W,5.6b
MOS V 05 13 24 07.3–1.0 16.81N 98.53W 33 5.5b,5.3s
NEIC V 05 13 24 07.8–.19 16.78N 98.62W 24 5.7W,5.5
MEX V 05 13 24 07.6–.49 16.61N 98.91W 12–4 5.5,5.5
ISCJB V 05 13 24 08.6–.64 16.96N–.02 98.51W–.02 33–4 5.4s,5.3b
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40 $M_{\theta\theta}$-1.60 $M_{\phi\phi}$0.20 $M_{r\theta}$-3.30 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s303.00000° ,δ82.00000°,λ102.00000°. NP2:ϕ_s63.00000°,δ14.00000°,λ31.00000°. Principal axes: T 4.8000,Plg50.0000°,Azm226.0000°; N -0.7000,Plg12.0000°,Azm121.0000° ; P -4.1000,Plg36.0000°,Azm22.0000° M_o4.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s111,c197; s120,c284;Duration: 1ŝ7 Moment tensor: Scale 10^{17} Nm; M_{rr}0.73±.03 $M_{\theta\theta}$-1.32±.03; $M_{\phi\phi}$0.59±.03; $M_{r\theta}$-3.62±.11; $M_{\theta\phi}$-0.08±.03; $M_{\phi r}$2.44±.09; Best double couple: NP1:ϕ_s303.00000°,δ85.00000°,λ102.00000°. NP2:ϕ_s54.00000° ,δ12.00000°,λ22.00000°. Principal axes: T 4.5380,Plg48.0000°,Azm225.0000° ; N -0.0480,Plg12.0000°,Azm122.0000°; P -4.4890,Plg39.0000°,Azm22.0000° M_o4.51400×10^{17}
NEIC Event type fe. Felt [III] at Mexico and Puebla and [II] at Oaxaca and Toluca. Felt in much of southern Mexico. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17} Nm; M_{rr}0.14 $M_{\theta\theta}$-0.24 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.77 $M_{\theta\phi}$-0.89 $M_{\phi r}$1.40 Best double couple: NP1: ϕ_s20.00000°,δ14.00000°,λ-12.00000°. NP2:ϕ_s122.00000°,δ87.00000°,λ-103.00000°. Principal axes: T 2.7400,Plg41.0000°,Azm224.0000°; N -0.8600,Plg13.0000°,Azm122.0000° ; P -1.8900,Plg46.0000°,Azm18.0000° M_o2.40000×10^{17}
ISCJB Event type fe.
MEX V 05 13 39 30.9–.55 16.57N 98.92W 11–7 3.7
¶602597618

MEX Error ellipse: s-maj=6.1km s-min=3.5km az=-1.0.
MEX V 05 15 09 12.0–.64 16.64N 98.88W 3–10 3.9
¶602597619

MEX Error ellipse: s-maj=4.0km s-min=3.7km az=-1.0.
MEX V 06 03 06 12.5–.60 16.55N 98.84W 16–9 3.8
¶602597623

MEX Error ellipse: s-maj=22.2km s-min=7.0km az=-1.0.
MEX V 06 07 21 10.3–.57 16.65N 98.89W 16–999 3.9
¶602597624

MEX Error ellipse: s-maj=21.8km s-min=6.3km az=-1.0.
ISC V 06 09 00 17.3–1.2 16.60N–.05 98.90W–.03 23–11 3.8b 80 1-47
IDC V 06 09 00 16.5–5.8 16.89N 98.74W 0 3.8,3.8b **¶16709000**
NEIC V 06 09 00 16.5–1.7 16.51N 98.93W 15–13 4.0,3.7b
MEX V 06 09 00 19.5–.56 16.62N 98.90W 13–5 4.0,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=106.6km s-min=19.8km az=17.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=7.5km az=200.0.
MEX Error ellipse: s-maj=2.7km s-min=1.7km az=-1.0.
MEX V 06 19 36 28.4–.81 17.41N 101.03W 13–9 3.9
¶602597628

MEX Error ellipse: s-maj=5.1km s-min=3.1km az=-1.0.
MEX V 06 22 37 12.7–.38 16.65N 98.91W 13–4 3.6
¶602597630

MEX Error ellipse: s-maj=2.4km s-min=1.9km az=-1.0.
MEX V 07 00 58 52.2–.88 16.71N 99.70W 8–4 3.5
¶602597632

MEX Error ellipse: s-maj=6.1km s-min=4.6km az=-1.0.
MEX V 07 04 03 58.0–.38 16.65N 98.89W 9–5 3.6
¶602597634

MEX Error ellipse: s-maj=2.5km s-min=2.1km az=-1.0.
MEX V 07 09 39 20.7–.71 16.67N 98.88W 7–8 3.5
¶602597635

MEX Error ellipse: s-maj=3.6km s-min=2.8km az=-1.0.
MEX V 07 17 45 17.5–.33 16.80N 100.13W 5 3.5
¶602597638

MEX Error ellipse: s-maj=3.0km s-min=1.4km az=-1.0.
MEX V 07 18 59 24.0–.38 17.70N 101.50W 41–4 3.7
¶602597639

MEX Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.
MEX V 07 20 56 09.1–.67 16.65N 98.88W 15–7 3.5
¶602597640

MEX Error ellipse: s-maj=3.5km s-min=2.7km az=-1.0.
MEX V 07 21 54 27.9–.42 16.65N 98.27W 19–11 3.5
¶602597641

MEX Error ellipse: s-maj=2.4km s-min=7.2km az=-1.0.
MEX V 08 01 15 03.6–.45 16.65N 98.84W 16–5 3.6
¶602597645

MEX Error ellipse: s-maj=2.5km s-min=2.3km az=-1.0.
MEX V 08 03 42 10.9–.72 16.65N 98.86W 9–8 3.7
¶602597647

MEX Error ellipse: s-maj=3.9km s-min=3.3km az=-1.0.
MEX V 09 04 00 48.0–.53 16.28N 98.15W 9–3 3.5
¶602597660

MEX Error ellipse: s-maj=5.9km s-min=4.3km az=-1.0.
MEX V 09 20 24 37.8–.49 16.63N 98.78W 10–5 3.6
¶602597670

MEX Error ellipse: s-maj=2.6km s-min=2.3km az=-1.0.
MEX V 10 08 13 37.3–.33 16.37N 98.84W 11–4 3.6
¶602597677

MEX Error ellipse: s-maj=3.1km s-min=1.9km az=-1.0.
MEX V 11 12 52 05.7–.61 17.89N 101.10W 53–10 3.5
¶602597691

MEX Error ellipse: s-maj=4.0km s-min=3.8km az=-1.0.
MEX V 12 13 48 23.8–.54 16.64N 98.89W 14–5 3.7
¶602597700

MEX Error ellipse: s-maj=3.1km s-min=2.4km az=-1.0.
MEX V 12 21 00 13.2–.71 16.61N 98.90W 22–7 3.8
¶602597702

MEX Error ellipse: s-maj=3.8km s-min=3.0km az=-1.0.
MEX V 13 01 45 16.8–.59 16.80N 100.50W 5–5 3.6
¶602597705

MEX Error ellipse: s-maj=5.2km s-min=4.2km az=-1.0.
MEX V 13 15 07 46.1–.87 16.97N 99.56W 31–8 3.5
¶602597715

MEX Error ellipse: s-maj=4.6km s-min=3.4km az=-1.0.
MEX V 13 16 02 27.6–.42 16.66N 98.88W 13–5 3.5
¶602597716

MEX Error ellipse: s-maj=2.3km s-min=1.8km az=-1.0.

MEX V 14 08 40 46.7–.75 16.81N 99.25W 16–25 3.5
¶602597727

MEX Error ellipse: s-maj=17.2km s-min=16.0km az=-1.0.
MEX V 14 10 19 49.4–.87 16.60N 99.67W 16–999 3.7
¶602597730

MEX Error ellipse: s-maj=8.6km s-min=5.9km az=-1.0.
MEX V 15 11 15 35.5–.56 16.65N 98.89W 15–8 3.6
¶602597745

MEX Error ellipse: s-maj=4.3km s-min=5.3km az=-1.0.
MEX V 15 13 17 14.9–.82 17.57N 101.10W 38–6 4.0
NEIC V 15 13 17 14.9 17.57N 101.10W 38 4.0 **¶602597748**
MEX Error ellipse: s-maj=3.4km s-min=2.8km az=-1.0.
NEIC Event type se. After MEX.
MEX V 15 13 19 24.2–.84 17.49N 101.13W 41–5 3.7
¶602597749

MEX Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
MEX V 15 21 41 34.1–.43 16.63N 98.86W 7–6 3.8
¶602597754

MEX Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.
MEX V 15 23 42 58.1–.48 16.80N 99.89W 25–7 3.7
¶602597755

MEX Error ellipse: s-maj=4.7km s-min=2.2km az=-1.0.
MEX V 15 23 54 58.8–.69 17.91N 101.64W 15 3.8
¶602597756

MEX Error ellipse: s-maj=5.0km s-min=10.0km az=-1.0.
MEX V 16 08 35 24.9–.46 16.87N 100.27W 2–3 3.6
¶602597761

MEX Error ellipse: s-maj=3.6km s-min=3.3km az=-1.0.
MEX V 16 11 08 58.6–.39 16.74N 99.72W 14–2 3.6
¶602597766

MEX Error ellipse: s-maj=3.5km s-min=2.8km az=-1.0.
MEX V 16 11 30 30.5–.37 16.96N 100.38W 22–4 3.9
¶602597767

MEX Error ellipse: s-maj=3.7km s-min=4.7km az=-1.0.
ISC V 16 19 38 47.7–1.2 16.43N–.05 98.49W–.04 12–8 3.5b 52 0-86
IDC V 16 19 38 46.3–1.3 16.44N 98.45W 0 3.9,3.8 **¶16710039**
ISCJB V 16 19 38 47.4–.88 16.38N–.04 98.47W–.04 23–6 3.9s,3.6b
NEIC V 16 19 38 49.3 16.40N 98.46W 3 4.3,3.6b
MEX V 16 19 38 49.3–.55 16.40N 98.46W 3–7 4.3,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=15.9km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=31.3.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=5.9km s-min=2.8km az=-1.0.
MEX V 17 03 13 27.1–.51 17.28N 101.24W 12–2 4.0
NEIC V 17 03 13 27.1 17.28N 101.24W 12 4.0 **¶602597772**
MEX Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.
NEIC Event type se. After MEX.
MEX V 17 20 02 32.6–.79 16.90N 99.57W 15–4 3.8
¶602597780

MEX Error ellipse: s-maj=4.6km s-min=2.8km az=-1.0.
MEX V 19 17 23 47.1–.53 17.29N 101.38W 26–8 3.8
¶602597798

MEX Error ellipse: s-maj=8.9km s-min=3.0km az=-1.0.
MEX V 22 22 07 39.2–.41 16.19N 98.01W 7–2 3.5
¶602597828

MEX Error ellipse: s-maj=4.0km s-min=4.0km az=-1.0.
MEX V 23 04 00 47.3–.66 16.59N 99.30W 16–999 3.6
¶602597830

MEX Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
MEX V 25 13 30 47.3–.69 17.83N 101.48W 30–8 3.8
¶602597853

MEX Error ellipse: s-maj=5.6km s-min=2.6km az=-1.0.
MEX V 27 17 15 21.3–.45 16.09N 98.99W 16–40 3.9
¶602597868

MEX Error ellipse: s-maj=4.3km s-min=2.1km az=-1.0.
MEX V 27 19 45 22.8–.57 16.30N 99.37W 16–8 4.0
NEIC V 27 19 45 22.8 16.30N 99.37W 16 4.0 **¶602597871**
MEX Error ellipse: s-maj=6.8km s-min=3.0km az=-1.0.
NEIC Event type se. After MEX.
MEX V 28 07 00 02.2–.56 16.30N 98.03W 3–4 3.8
¶602597873

MEX Error ellipse: s-maj=3.6km s-min=2.5km az=-1.0.
MEX V 28 19 19 00.8–.34 16.29N 98.24W 24–3 3.8
¶602597875

MEX Error ellipse: s-maj=3.8km s-min=3.6km az=-1.0.
ISC V 29 00 27 14.4–1.2 16.67N–.04 98.91W–.03 26–11 47 1-47
ISCJB V 29 00 27 14.7–.54 16.67N–.04 98.91W–.03 45–10 3.3b,3.0s **¶16711169**
NEIC V 29 00 27 17.0 16.65N 98.91W 24 4.1,3.0s
MEX V 29 00 27 17.0–.63 16.65N 98.91W 24–28 4.1,3.0s
IDC V 29 00 27 37.0–11 17.66N 98.14W 193–60 3.4,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.2km az=16.7.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=2.8km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=152.8km s-min=31.4km az=20.0.
MEX V 29 16 30 25.2–.62 16.98N 100.03W 36–5 3.5
¶602597880

MEX Error ellipse: s-maj=3.5km s-min=2.4km az=-1.0.
MEX V 30 16 26 59.5–.39 17.73N 101.89W 16–14 3.5
¶602597890

MEX Error ellipse: s-maj=8.1km s-min=7.6km az=-1.0.
MEX VI 02 08 11 35.3–.58 17.41N 101.65W 10–8 3.8
¶602597907

MEX Error ellipse: s-maj=10.4km s-min=8.1km az=-1.0.
MEX VI 02 10 56 33.7–.72 16.81N 100.16W 4–4 3.5
¶602597909

MEX Error ellipse: s-maj=5.4km s-min=3.3km az=-1.0.
MEX VI 03 12 28 29.0–.89 17.19N 101.17W 16–15 3.9
¶602597915

MEX Error ellipse: s-maj=15.9km s-min=10.6km az=-1.0.
MEX VI 03 14 59 35.1–.92 16.64N 98.17W 4–14 3.5
¶602597916

MEX Error ellipse: s-maj=6.1km s-min=7.8km az=-1.0.
MEX VI 03 20 40 16.2–1.0 17.27N 101.64W 5 4.0
¶602597920

MEX Error ellipse: s-maj=6.0km s-min=13.1km az=-1.0.
MEX VI 04 04 26 34.8–.49 16.51N 98.32W 13 3.5
¶602597922

MEX Error ellipse: s-maj=4.4km s-min=4.6km az=-1.0.
MEX VI 05 00 17 48.7–.78 17.12N 101.16W 20–5 3.7
¶602597931

MEX Error ellipse: s-maj=4.9km s-min=4.1km az=-1.0.
MEX VI 05 05 29 24.7–.57 17.18N 101.13W 8–3 3.5
¶602597934

MEX Error ellipse: s-maj=3.7km s-min=2.9km az=-1.0.
MEX VI 05 07 29 36.3–.48 16.54N 98.44W 16–11 3.5
¶602597935

MEX Error ellipse: s-maj=6.2km s-min=10.4km az=-1.0.
MEX VI 05 15 06 58.5–.44 16.77N 98.50W 16–7 3.5
¶602597940

MEX Error ellipse: s-maj=2.5km s-min=4.4km az=-1.0.
MEX VI 05 16 32 33.0–.63 17.16N 101.14W 16–18 3.9
¶602597941

MEX Error ellipse: s-maj=5.0km s-min=3.7km az=-1.0.
MEX VI 05 17 55 12.7–.79 16.89N 100.51W 5 3.9
¶602597942

MEX Error ellipse: s-maj=4.8km s-min=3.3km az=-1.0.
MEX VI 05 22 55 12.0–.58 16.97N 99.99W 27–9 3.6
¶602597946

MEX Error ellipse: s-maj=5.2km s-min=3.2km az=-1.0.

MEX VI 06 01 49 49.2–.90 16.61N 98.87W 17–9 3.9
¶602597947

MEX Error ellipse: s-maj=4.7km s-min=3.5km az=-1.0.
MEX VI 07 02 27 34.8–.59 16.62N 98.81W 16–7 3.6
¶602597960

MEX Error ellipse: s-maj=3.7km s-min=2.6km az=-1.0.
MEX VI 07 09 30 10.1–.40 17.28N 101.34W 16–7 3.7
¶602597965

MEX Error ellipse: s-maj=4.7km s-min=3.9km az=-1.0.
MEX VI 07 19 33 12.1–.43 16.50N 98.58W 16–7 3.5
¶602597967

MEX Error ellipse: s-maj=4.2km s-min=3.9km az=-1.0.
MEX VI 07 23 26 48.7–.46 16.92N 99.93W 3–17 3.6
¶602597970

MEX Error ellipse: s-maj=13.7km s-min=6.9km az=-1.0.
MEX VI 08 04 14 33.2–.66 16.68N 99.41W 16–999 3.7
¶602597973

MEX Error ellipse: s-maj=4.2km s-min=2.9km az=-1.0.
ISC VI 08 22 08 35.7–1.1 17.39N–.06 101.23W–.07 16–10 3.5b 29 0-56
ISCJB VI 08 22 08 35.3–.85 17.41N–.06 101.24W–.04 18–6 3.4b,3.2s ¶16856698
NEIC VI 08 22 08 37.0 17.38N 101.32W 14 4.2,3.2s
MEX VI 08 22 08 37.0–.55 17.38N 101.32W 14–3 4.2,3.2s
IDC VI 08 22 08 58.5–7.2 18.09N 100.99W 190–59 3.3s,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.5km az=24.6.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=3.5km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=114.8km s-min=32.6km az=39.0.
MEX VI 09 12 51 45.6–.77 16.48N 98.44W 22–22 3.9
¶602597989

MEX Error ellipse: s-maj=5.9km s-min=3.6km az=-1.0.
ISC VI 10 13 13 23.6–1.4 16.30N–.04 98.47W–.03 2–7 4.8b,3.9s 582 0-135
MEX VI 10 13 13 22.7–.89 16.02N 98.61W 4 4.9,3.9s ¶16590030
ISCJB VI 10 13 13 24.8–1.1 16.43N–.03 98.28W–.02 15–6 4.7b,3.9s
NEIC VI 10 13 13 24.0 16.00N 98.54W 10 4.9,4.8b
IDC VI 10 13 13 25.1–1.3 16.68N 98.35W 0 4.5,4.3b
ISC Event type fe.
MEX Error ellipse: s-maj=5.8km s-min=3.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.1km az=14.6.
NEIC Event type fe. Felt at Oaxaca. After MEX.
IDC Error ellipse: s-maj=28.5km s-min=16.5km az=8.0.
MEX VI 10 13 18 52.5–.34 16.85N 98.28W 3–13 4.1
NEIC VI 10 13 18 52.5 16.85N 98.28W 3 4.1 ¶16912379
MEX Error ellipse: s-maj=5.9km s-min=10.2km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 10 20 28 17.8–.43 16.16N 98.53W 3 3.9
¶602598018

MEX Error ellipse: s-maj=9.3km s-min=6.3km az=-1.0.
MEX VI 10 22 13 27.6–.75 16.24N 98.67W 10–27 3.7
¶602598019

MEX Error ellipse: s-maj=24.0km s-min=15.1km az=-1.0.
MEX VI 11 02 25 09.6–1.1 16.50N 98.48W 8–22 3.7
¶602598021

MEX Error ellipse: s-maj=17.5km s-min=7.1km az=-1.0.
MEX VI 11 12 23 47.4–.50 16.08N 98.59W 3 4.1
¶602598030

MEX Error ellipse: s-maj=7.5km s-min=4.5km az=-1.0.
MEX VI 12 14 34 46.0–.39 16.06N 98.02W 4 3.9
¶602598039

MEX Error ellipse: s-maj=6.8km s-min=11.8km az=-1.0.
MEX VI 13 18 24 34.5–.39 16.56N 98.47W 3 4.1
NEIC VI 13 18 24 34.5 16.56N 98.47W 3 4.1 ¶602598053
MEX Error ellipse: s-maj=3.8km s-min=4.3km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 15 12 19 09.8–.35 16.72N 99.76W 8–2 3.8
¶602598072

MEX Error ellipse: s-maj=2.7km s-min=2.4km az=-1.0.
MEX VI 15 23 06 53.4–.31 16.49N 100.08W 3 3.6
¶602598074

MEX Error ellipse: s-maj=6.3km s-min=5.6km az=-1.0.
MEX VI 17 05 15 47.7–.52 16.03N 98.88W 17–18 3.8
¶602598085

MEX Error ellipse: s-maj=24.6km s-min=9.1km az=-1.0.
MEX VI 17 14 44 11.4–.32 17.33N 101.20W 22–8 3.7
¶602598091

MEX Error ellipse: s-maj=3.2km s-min=4.5km az=-1.0.
MEX VI 18 03 38 53.6–.77 16.01N 99.73W 16–23 3.8
¶602598098

MEX Error ellipse: s-maj=22.1km s-min=14.5km az=-1.0.
ISC VI 18 22 54 42.5–.39 16.94N–.03 99.56W–.03 23–2 4.8b,4.1s 687 0-129
ISCJB VI 18 22 54 41.6–.24 16.99N–.02 99.42W–.02 30 4.7b,4.1s ¶16632956
IDC VI 18 22 54 43.8–.81 17.11N 99.23W 26–4 4.5,4.4
NEIC VI 18 22 54 44.0 16.92N 99.60W 26 5.2,4.8b
MEX VI 18 22 54 44.2–1.3 16.90N 99.61W 29–7 5.2,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=4.1.
IDC Error ellipse: s-maj=26.5km s-min=10.9km az=59.0.
NEIC Event type fe. Felt [III] at Acapulco and [II] at Mexico. Also felt at Chilapa, Chilpancingo, Ixtapaluca, Tierra Colorada and Tlalnepantla. After MEX. Moment Tensor Solution. s17 Moment tensor: Scale 10^{16}Nm; M_{rr}2.25 $M_{\theta\theta}$-1.80 $M_{\phi\phi}$-0.45 $M_{r\theta}$-0.97 $M_{\theta\phi}$-0.20 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s77.00000°,δ33.00000°,λ80.00000°. NP2:ϕ_s269.00000° ,δ58.00000°,λ97.00000°. Principal axes: T 2.4900,Plg76.0000°,Azm199.0000° ; N -0.4500,Plg6.0000°,Azm86.0000°; P -2.0400,Plg12.0000°,Azm354.0000° M_o2.30000×10^{16}
MEX Error ellipse: s-maj=4.7km s-min=2.9km az=-1.0.
ISC VI 19 05 48 09.3–2.8 16.90N–.04 100.07W–.03 14–20 4.0b 57 0-57
ISCJB VI 19 05 48 08.7–.72 16.85N–.04 100.09W–.03 23–4 3.8b ¶16730942
NEIC VI 19 05 48 10.6 16.88N 100.08W 3 4.3
MEX VI 19 05 48 10.6–.51 16.88N 100.08W 3–2 4.3
IDC VI 19 05 48 18.7–10 17.32N 99.66W 75–58 3.7,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.8km az=19.3.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=2.7km s-min=1.4km az=-1.0.
IDC Error ellipse: s-maj=123.7km s-min=36.6km az=18.0.
MEX VI 19 21 05 03.4–.69 16.88N 99.62W 30–7 3.7
¶602598116

MEX Error ellipse: s-maj=4.8km s-min=3.4km az=-1.0.
MEX VI 21 01 06 21.1–.60 16.38N 98.51W 4–8 3.9
¶602598126

MEX Error ellipse: s-maj=11.4km s-min=6.1km az=-1.0.
MEX VI 21 04 07 10.1–.72 16.68N 99.69W 16–19 3.7
¶602598127

MEX Error ellipse: s-maj=17.2km s-min=6.4km az=-1.0.
MEX VI 21 08 55 09.7–.56 17.42N 101.45W 20–14 4.1
NEIC VI 21 08 55 09.7 17.42N 101.45W 20 4.1 ¶16883270
MEX Error ellipse: s-maj=7.7km s-min=6.3km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 21 14 29 09.5–.38 16.51N 98.45W 30–9 3.8
¶602598129

MEX Error ellipse: s-maj=5.1km s-min=4.6km az=-1.0.
MEX VI 22 21 48 03.6–.59 16.38N 98.52W 13 3.7
¶602598138

MEX Error ellipse: s-maj=7.1km s-min=3.9km az=-1.0.
MEX VI 23 12 10 05.3–.66 16.89N 100.37W 5–5 3.6
¶602598143

MEX Error ellipse: s-maj=4.0km s-min=3.8km az=-1.0.
MEX VI 24 12 17 13.0–.87 16.19N 98.40W 15 3.9
¶602598153

MEX Error ellipse: s-maj=15.3km s-min=4.5km az=-1.0.
MEX VI 24 16 28 08.6–.64 16.69N 100.07W 5 3.9
¶602598156

MEX Error ellipse: s-maj=5.9km s-min=3.4km az=-1.0.
MEX VI 25 02 18 10.1–.61 16.87N 100.37W 15–3 3.8
¶602598160

MEX Error ellipse: s-maj=4.6km s-min=4.5km az=-1.0.
MEX VI 29 00 44 44.8–.35 17.34N 101.21W 16–10 4.1
¶602598196

MEX Error ellipse: s-maj=6.6km s-min=4.0km az=-1.0.
MEX VI 29 01 33 33.8–.96 17.68N 101.17W 35 3.9
¶602598197

MEX Error ellipse: s-maj=12.0km s-min=8.3km az=-1.0.
MEX VI 29 17 18 36.5–.34 17.05N 101.33W 16–14 3.6
¶602598203

MEX Error ellipse: s-maj=12.6km s-min=10.7km az=-1.0.
MEX VI 29 18 00 14.9–1.1 16.42N 98.46W 5–34 4.0
NEIC VI 29 18 00 14.9 16.42N 98.46W 5 4.0 ¶602598204
MEX Error ellipse: s-maj=25.7km s-min=9.6km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 30 04 21 51.6–.38 16.53N 98.46W 5 3.9
¶602598209

MEX Error ellipse: s-maj=3.6km s-min=4.7km az=-1.0.

(59) Guerrero.
MEX I 03 00 32 12.3–.68 18.09N 99.68W 54–5 3.6
¶601136698

MEX Error ellipse: s-maj=3.6km s-min=3.2km az=-1.0.
MEX I 04 15 32 08.0–.35 17.50N 100.95W 55–7 3.5
¶601136715

MEX Error ellipse: s-maj=2.0km s-min=2.0km az=-1.0.
MEX I 05 08 28 46.2–.91 17.35N 100.53W 42–14 3.8
¶601136721

MEX Error ellipse: s-maj=5.0km s-min=3.4km az=-1.0.
MEX I 06 06 48 38.7–.34 17.27N 100.37W 38–8 3.8
¶601136727

MEX Error ellipse: s-maj=4.0km s-min=3.2km az=-1.0.
MEX I 06 16 11 53.3–.93 17.88N 100.60W 69–11 3.9
¶601136730

MEX Error ellipse: s-maj=4.7km s-min=4.2km az=-1.0.
MEX I 06 21 08 26.0–.43 17.79N 100.60W 60–6 3.7
¶601136732

MEX Error ellipse: s-maj=1.8km s-min=2.2km az=-1.0.
MEX I 07 04 23 40.1–.77 17.94N 98.39W 48–13 3.6
¶601136734

MEX Error ellipse: s-maj=4.2km s-min=3.0km az=-1.0.
MEX I 09 04 33 33.4–.43 17.94N 98.59W 59–5 4.0
¶601136753

MEX Error ellipse: s-maj=2.0km s-min=2.9km az=-1.0.
MEX I 10 08 45 32.7–.59 17.09N 99.97W 30–10 3.6
¶601136765

MEX Error ellipse: s-maj=5.7km s-min=3.4km az=-1.0.
MEX I 13 10 12 33.5–1.2 18.68N 101.01W 34–107 3.9
¶601136780

MEX Error ellipse: s-maj=11.7km s-min=8.4km az=-1.0.
MEX I 17 22 30 14.1–.46 17.80N 99.90W 61–4 3.6
¶601136799

MEX Error ellipse: s-maj=2.0km s-min=2.3km az=-1.0.
MEX I 18 18 30 05.6–.53 17.25N 100.25W 17–19 3.6
¶601136802

MEX Error ellipse: s-maj=12.3km s-min=8.7km az=-1.0.
MEX I 19 02 43 54.5–.78 18.18N 100.27W 48–8 3.7
¶601136805

MEX Error ellipse: s-maj=6.2km s-min=5.2km az=-1.0.
MEX I 19 10 05 08.5–.57 18.24N 100.66W 46–5 3.9
¶601136807

MEX Error ellipse: s-maj=3.4km s-min=3.9km az=-1.0.
MEX I 19 17 48 47.7–.56 18.05N 101.01W 17–11 3.6
¶601136809

MEX Error ellipse: s-maj=9.3km s-min=10.9km az=-1.0.
MEX I 19 18 01 28.0–.38 18.29N 101.89W 23–18 4.0
¶601136810

MEX Error ellipse: s-maj=4.4km s-min=2.1km az=-1.0.
MEX I 26 01 15 22.4–.89 18.01N 99.85W 51–7 3.6
¶601136875

MEX Error ellipse: s-maj=5.2km s-min=4.0km az=-1.0.
MEX I 28 14 22 42.1–.75 17.78N 99.76W 10–4 3.6
¶601136897

MEX Error ellipse: s-maj=3.8km s-min=2.9km az=-1.0.
MEX I 30 19 37 18.9–.45 17.17N 100.49W 30–8 3.7
¶601136906

MEX Error ellipse: s-maj=5.3km s-min=4.2km az=-1.0.
MEX II 01 06 52 44.0–.98 18.15N 101.68W 40–81 3.9
¶601136910

MEX Error ellipse: s-maj=25.6km s-min=8.2km az=-1.0.
MEX II 03 05 40 10.9–.43 18.01N 100.73W 55–6 3.6
¶601136923

MEX Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
MEX II 04 07 52 14.6–.31 17.22N 99.91W 59–9 3.6
¶601136932

MEX Error ellipse: s-maj=5.1km s-min=3.7km az=-1.0.
MEX II 13 06 20 40.7–.27 18.36N 100.77W 62–4 3.6
¶601137004

MEX Error ellipse: s-maj=3.2km s-min=2.4km az=-1.0.
MEX II 14 08 19 08.3–.81 17.08N 100.18W 9–7 3.8
¶601137014

MEX Error ellipse: s-maj=8.6km s-min=3.7km az=-1.0.
MEX II 15 06 13 23.1–.44 17.08N 100.22W 8–6 3.7
¶601137019

MEX Error ellipse: s-maj=4.8km s-min=4.0km az=-1.0.
MEX II 15 13 47 22.3–.60 18.04N 99.69W 54–8 3.9
¶601137021

MEX Error ellipse: s-maj=3.2km s-min=3.0km az=-1.0.
MEX II 15 15 05 13.0–.30 17.04N 99.84W 39–5 4.1
NEIC II 15 15 05 13.0 17.04N 99.84W 39 4.1 ¶16398276
MEX Error ellipse: s-maj=3.7km s-min=1.9km az=-1.0.
NEIC Event type se. After MEX.
MEX II 22 04 08 01.8–.86 18.15N 100.09W 58–10 4.0
NEIC II 22 04 08 01.8 18.15N 100.09W 58 4.0 ¶16314215
MEX Error ellipse: s-maj=16.7km s-min=6.0km az=-1.0.
NEIC Event type se. After MEX.
MEX II 24 05 05 46.3–.92 17.05N 100.61W 30 4.1
NEIC II 24 05 05 46.3 17.05N 100.61W 30 4.1 ¶16405104
MEX Error ellipse: s-maj=14.7km s-min=13.5km az=-1.0.
NEIC Event type se. After MEX.
MEX II 26 02 34 19.2–.41 18.21N 101.57W 43–13 3.5
¶601137120

MEX Error ellipse: s-maj=4.3km s-min=3.0km az=-1.0.
MEX II 26 16 40 10.9–.77 18.75N 101.69W 103–45 3.6
¶601137131

MEX Error ellipse: s-maj=15.2km s-min=8.5km az=-1.0.
MEX III 04 16 08 57.5–.54 17.09N 99.11W 16–7 4.1
¶601137169

MEX Error ellipse: s-maj=2.6km s-min=2.2km az=-1.0.
MEX III 05 02 06 39.4–.35 18.66N 101.54W 82–10 3.9
¶601137173

MEX Error ellipse: s-maj=3.4km s-min=3.9km az=-1.0.
MEX III 05 05 29 06.7–.71 18.06N 101.82W 35–4 4.1
NEIC III 05 05 29 06.7 18.06N 101.82W 35 4.1 ¶16442185
MEX Error ellipse: s-maj=2.9km s-min=2.4km az=-1.0.
NEIC Event type se. After MEX.
MEX III 06 19 43 48.9–.33 17.97N 98.75W 53–7 3.6
¶601137191

MEX Error ellipse: s-maj=3.7km s-min=2.4km az=-1.0.
MEX III 06 22 38 40.4–.78 18.19N 100.68W 57–7 3.7
¶601137192

MEX Error ellipse: s-maj=4.7km s-min=3.7km az=-1.0.
MEX III 08 12 50 30.4–.33 18.37N 100.95W 40–12 3.7
¶601137202

MEX Error ellipse: s-maj=8.4km s-min=5.1km az=-1.0.
MEX III 08 18 04 03.5–.79 17.46N 100.89W 39–22 3.8
¶601137203

MEX Error ellipse: s-maj=5.4km s-min=4.1km az=-1.0.
MEX III 09 21 55 05.5–.45 18.11N 101.70W 20–46 4.1
¶601137210

MEX Error ellipse: s-maj=25.9km s-min=2.7km az=-1.0.
MEX III 11 15 04 35.3–.88 17.88N 98.30W 50–6 3.9
¶601137225

MEX Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
MEX III 13 17 36 46.6–.43 17.90N 100.75W 72–5 3.9
¶601137243

MEX Error ellipse: s-maj=2.4km s-min=2.0km az=-1.0.
MEX III 15 06 20 49.9–.64 17.06N 100.19W 39–5 3.9
¶601137257

MEX Error ellipse: s-maj=4.9km s-min=3.4km az=-1.0.
MEX III 16 10 22 50.8–.70 17.02N 100.23W 39–5 3.8
¶601137269

MEX Error ellipse: s-maj=5.2km s-min=3.9km az=-1.0.
MEX III 16 23 14 39.2–.39 17.07N 98.79W 43–8 3.9
¶601137271

MEX Error ellipse: s-maj=2.5km s-min=1.5km az=-1.0.
MEX III 17 09 49 35.0–.37 17.01N 100.20W 46–3 3.8
¶601137282

MEX Error ellipse: s-maj=2.9km s-min=2.5km az=-1.0.
MEX III 19 00 38 18.4–.58 18.02N 100.47W 54–7 3.6
¶601137299

MEX Error ellipse: s-maj=4.1km s-min=3.9km az=-1.0.
MEX III 19 23 54 07.9–.62 18.13N 100.69W 53–10 4.2
¶601137303

MEX Error ellipse: s-maj=30.0km s-min=14.7km az=-1.0.
MEX III 20 18 21 50.6–.68 17.78N 100.53W 36–30 3.7
¶601137311

MEX Error ellipse: s-maj=12.3km s-min=7.6km az=-1.0.
MEX III 21 01 03 35.7–.41 17.05N 100.10W 5 3.6
¶601137312

MEX Error ellipse: s-maj=4.0km s-min=1.8km az=-1.0.
MEX III 23 01 49 15.5–.49 18.01N 100.45W 54–7 3.9
¶601137328

MEX Error ellipse: s-maj=8.5km s-min=4.0km az=-1.0.
MEX III 30 04 36 27.2–.70 18.20N 100.98W 62–7 3.9
¶601137408

MEX Error ellipse: s-maj=2.3km s-min=2.1km az=-1.0.
MEX III 31 07 17 35.0–.39 17.34N 100.74W 8–4 3.5
¶601137428

MEX Error ellipse: s-maj=1.8km s-min=1.3km az=-1.0.
MEX IV 06 10 07 34.7–.39 18.70N 100.40W 17–752 3.6
¶602595965

MEX Error ellipse: s-maj=35.9km s-min=683.3km az=-1.0.
MEX IV 07 19 48 34.0–.68 17.10N 99.15W 10 3.6
¶602595998

MEX Error ellipse: s-maj=14.8km s-min=7.7km az=-1.0.
MEX IV 10 23 34 11.6–.53 17.13N 100.97W 12–9 3.6
¶602596067

MEX Error ellipse: s-maj=5.4km s-min=2.4km az=-1.0.
MEX IV 15 21 36 26.3–.34 17.32N 100.84W 20–88 3.6
¶602596206

MEX Error ellipse: s-maj=4.2km s-min=2.2km az=-1.0.
ISC IV 18 02 56 52.9–1.1 17.12N–.02 99.98W–.02 5–10 **59 0-4**
ISCJB IV 18 02 56 54.7–.50 17.00N–.04 100.00W–.03 20–4 ¶16577849
MEX IV 18 02 56 56.1–.76 17.02N 99.99W 3 4.0
NEIC IV 18 02 56 56.1 17.02N 99.99W 3 4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.5km az=32.3.
MEX Error ellipse: s-maj=3.1km s-min=2.8km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 19 11 25 23.3–.48 18.08N 101.59W 20–28 3.8
¶602596353

MEX Error ellipse: s-maj=4.8km s-min=3.7km az=-1.0.
MEX IV 20 13 59 27.9–.41 17.88N 100.55W 55–9 3.7
¶602596383

MEX Error ellipse: s-maj=4.5km s-min=4.3km az=-1.0.
MEX IV 20 20 17 30.8–.44 17.16N 100.22W 44–5 3.9
¶602596386

MEX Error ellipse: s-maj=3.5km s-min=3.9km az=-1.0.
ISC IV 24 23 38 38.4–.56 17.21N–.03 99.78W–.03 29–3 3.9b **75 0-130**
IDC IV 24 23 38 41.0–1.5 17.33N 99.60W 48–6 3.8,3.8 ¶16577883
MEX IV 24 23 38 41.0–.83 17.20N 99.80W 46–7 4.2,3.8
NEIC IV 24 23 38 41.0 17.20N 99.80W 46 4.2,3.8
ISC Event type se.
IDC Error ellipse: s-maj=33.0km s-min=12.8km az=18.0.
MEX Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 29 03 30 39.6–.34 17.12N 99.27W 51–7 3.5
¶602596690

MEX Error ellipse: s-maj=1.8km s-min=1.6km az=-1.0.
MEX IV 30 19 07 34.6–.68 17.74N 100.22W 62–7 3.6
¶602596724

MEX Error ellipse: s-maj=2.8km s-min=2.9km az=-1.0.
MEX V 01 15 51 20.7–.44 18.37N 100.81W 38–8 3.5
¶602597581

MEX Error ellipse: s-maj=3.9km s-min=3.0km az=-1.0.
MEX V 01 23 22 31.2–.50 18.03N 99.85W 53–4 3.6
¶602597584

MEX Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
MEX V 04 05 18 09.2–.59 17.19N 100.05W 35–9 3.5
¶602597605

MEX Error ellipse: s-maj=4.8km s-min=3.7km az=-1.0.
MEX V 07 02 07 29.1–.37 17.25N 100.86W 12–4 3.5
¶602597633

MEX Error ellipse: s-maj=2.5km s-min=1.5km az=-1.0.
MEX V 07 10 01 51.7–.32 17.99N 100.50W 58–5 3.5
¶602597636

MEX Error ellipse: s-maj=2.4km s-min=2.3km az=-1.0.
MEX V 10 06 17 23.2–.53 17.89N 98.40W 52–4 3.8
¶602597675

MEX Error ellipse: s-maj=3.0km s-min=2.3km az=-1.0.
MEX V 11 17 36 14.6–1.0 18.52N 101.52W 63–13 3.7
¶602597694

MEX Error ellipse: s-maj=4.7km s-min=4.3km az=-1.0.
MEX V 15 12 02 47.2–.58 17.96N 100.46W 52–6 3.5
¶602597747

MEX Error ellipse: s-maj=3.3km s-min=2.5km az=-1.0.
MEX V 16 20 43 27.1–.57 18.39N 100.44W 44–5 3.8
¶602597769

MEX Error ellipse: s-maj=6.5km s-min=4.2km az=-1.0.
MEX V 16 23 30 52.9–.40 17.15N 100.23W 36–6 3.6
¶602597771

MEX Error ellipse: s-maj=4.4km s-min=3.4km az=-1.0.
MEX V 19 06 20 15.9–.35 18.25N 101.34W 47–18 3.6
¶602597794

MEX Error ellipse: s-maj=5.6km s-min=2.5km az=-1.0.
MEX V 20 04 01 18.6–.33 17.36N 100.94W 13–4 3.7
¶602597805

MEX Error ellipse: s-maj=2.5km s-min=1.4km az=-1.0.
MEX V 22 16 26 46.0–.54 17.17N 100.25W 34–4 3.9
¶602597826

MEX Error ellipse: s-maj=3.0km s-min=2.3km az=-1.0.
MEX V 23 16 14 58.1–.61 17.02N 100.09W 3–11 3.5
¶602597836

MEX Error ellipse: s-maj=8.6km s-min=3.7km az=-1.0.
ISC V 24 06 21 12.7–.67 17.40N–.03 99.46W–.03 22–5 4.0b **81 1-58**
IDC V 24 06 21 05.8–4.6 17.10N 99.57W 0 4.1,3.9 ¶16538118
MEX V 24 06 21 16.6–.77 17.41N 99.46W 44–10 3.9,3.9
NEIC V 24 06 21 16.7 17.42N 99.46W 39 4.0b,3.9
ISC Event type fe.
IDC Error ellipse: s-maj=86.3km s-min=33.9km az=8.0.
MEX Error ellipse: s-maj=2.9km s-min=2.1km az=-1.0.
NEIC Event type fe. Felt at Chilpancingo. After MEX.
ISC V 25 04 39 55.8–.98 17.27N–.02 99.73W–.03 27–10 **65 0-46**
IDC V 25 04 39 48.6–8.9 16.99N 99.74W 0 3.6,3.4 ¶16684778
NEIC V 25 04 39 57.9 17.22N 99.79W 40 4.1,3.4
MEX V 25 04 39 57.9–.57 17.22N 99.79W 40–8 4.1,3.4
ISC Event type se.
IDC Error ellipse: s-maj=165.8km s-min=45.2km az=20.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=2.3km s-min=2.6km az=-1.0.
MEX V 25 04 49 05.0–.57 17.63N 98.68W 57–4 3.8
¶602597849

MEX Error ellipse: s-maj=2.3km s-min=1.9km az=-1.0.
MEX V 25 22 29 19.5–.47 17.32N 100.76W 25–15 3.9
¶602597855

MEX Error ellipse: s-maj=2.8km s-min=1.8km az=-1.0.
MEX V 27 12 12 57.9–.49 18.01N 99.59W 52–3 3.5
¶602597866

MEX Error ellipse: s-maj=2.1km s-min=2.1km az=-1.0.
MEX V 29 09 44 46.6–.52 18.48N 101.48W 64–10 4.2
NEIC V 29 09 44 46.6 18.48N 101.48W 64 4.2 ¶602597879
MEX Error ellipse: s-maj=2.0km s-min=3.0km az=-1.0.
NEIC Event type se. After MEX.
MEX V 30 16 19 53.4–.61 17.16N 100.08W 36–6 3.6
¶602597889

MEX Error ellipse: s-maj=3.0km s-min=2.4km az=-1.0.
MEX VI 01 22 37 57.2–.77 17.08N 100.03W 31–8 3.9
¶602597904

MEX Error ellipse: s-maj=4.5km s-min=3.8km az=-1.0.
ISC VI 02 16 29 44.1–.51 18.62N–.04 101.48W–.03 64–4 4.9b **938 1-151**
IDC VI 02 16 29 44.3–.70 18.75N 101.28W 60–5 4.7,4.6 ¶16722594
NEIC VI 02 16 29 46.2–.39 18.69N 101.32W 82–3 5.3W,5.1
ISCJB VI 02 16 29 46.7–.18 18.75N–.02 101.29W–.02 100 4.8b,5.1
GCMT VI 02 16 29 46.2–.20 18.67N 101.50W 77–1 5.2W,5.1
MEX VI 02 16 29 46.2–.81 18.47N 101.51W 20–10 5.1,5.1
MOS VI 02 16 29 48.6–1.0 18.87N 101.20W 111 4.9b,5.1
ISC Event type fe.
IDC Error ellipse: s-maj=18.0km s-min=9.9km az=61.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=219.0. Felt [II] at Mexico, Morelia and Patzcuaro. Also felt at Ixtapa, La Union, Lazaro Cardenas and Zihuatanejo. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-7.52 $M_{\theta\theta}$9.98 $M_{\phi\phi}$-2.46 $M_{r\theta}$-0.26 $M_{\theta\phi}$-0.25 $M_{\phi r}$3.33 Best double couple: NP1:ϕ_s247.00000°,δ50.00000°,λ-126.00000°. NP2: ϕ_s115.00000°,δ52.00000°,λ-56.00000°. Principal axes: T 9.9900,Plg1.0000°,Azm181.0000° ; N -0.8200,Plg26.0000°,Azm272.0000°; P -9.1700,Plg64.0000°,Azm89.0000° $M_0$9.60000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=25.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c125; s86,c139; Duration: 0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.58±.01 $M_{\theta\theta}$0.78±.01; $M_{\phi\phi}$-0.20±.02; $M_{r\theta}$0.28±.01; $M_{\theta\phi}$-0.07±.02; $M_{\phi r}$-0.01±.01; Best double couple: NP1:ϕ_s273.00000°,δ56.00000° ,λ-91.00000°. NP2:ϕ_s96.00000°,δ34.00000°,λ-88.00000°. Principal axes: T 0.8420,Plg11.0000°,Azm4.0000°; N -0.2120,Plg1.0000°,Azm274.0000° ; P -0.6300,Plg79.0000°,Azm178.0000° $M_0$0.73600×10^{17}
MEX Error ellipse: s-maj=2.5km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=4.6km az=101.3.
MEX VI 05 12 42 37.0–.59 17.26N 100.41W 40–10 3.7
¶602597937

MEX Error ellipse: s-maj=4.7km s-min=3.8km az=-1.0.
MEX VI 12 17 59 27.3–.64 17.92N 99.60W 50–11 3.8
¶602598041

MEX Error ellipse: s-maj=2.8km s-min=2.8km az=-1.0.
MEX VI 22 13 05 32.8–.43 17.24N 100.19W 50–5 4.0
NEIC VI 22 13 05 32.8 17.24N 100.19W 50 4.0 ¶16918969
MEX Error ellipse: s-maj=2.1km s-min=2.1km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 23 11 55 52.5–.39 17.09N 99.86W 20 3.7
¶602598142

MEX Error ellipse: s-maj=1.5km s-min=2.4km az=-1.0.
MEX VI 25 09 02 25.9–.46 17.03N 99.70W 35–9 3.8
¶602598164

MEX Error ellipse: s-maj=8.3km s-min=5.0km az=-1.0.
MEX VI 28 10 03 22.4–.56 18.51N 101.27W 25–24 3.9
¶602598193

MEX Error ellipse: s-maj=11.5km s-min=9.8km az=-1.0.
MEX VI 29 11 36 33.5–.29 17.74N 100.89W 49–8 3.7
¶602598200

MEX Error ellipse: s-maj=1.9km s-min=1.7km az=-1.0.

(60) Oaxaca.

ISC I 01 16 01 36.1–.75 16.99N–.06 95.92W–.05 87–9 3.5b **167 1-81**
ISCJB I 01 16 01 34.9–.38 16.96N–.05 95.92W–.05 99–5 3.4b ¶16032736
NEIC I 01 16 01 37.2 16.97N 95.93W 92 4.3,4.1b
MEX I 01 16 01 37.2–.44 16.97N 95.93W 91–5 4.3,4.1b
IDC I 01 16 01 42.4–4.3 17.70N 95.39W 100–38 3.8,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.4km az=42.4.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=4.9km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=38.2km s-min=17.6km az=37.0.
MEX I 02 21 37 44.4–.35 16.23N 94.40W 75–13 3.9
¶601136111

MEX Error ellipse: s-maj=12.6km s-min=5.2km az=-1.0.
MEX I 03 14 59 14.2–.55 16.21N 97.92W 10 4.0
NEIC I 03 14 59 14.2 16.21N 97.92W 10 4.0 ¶16031095
MEX Error ellipse: s-maj=5.5km s-min=3.0km az=-1.0.
NEIC Event type se. After MEX.
MEX I 04 04 31 57.2–.57 16.50N 97.99W 16–15 3.9
¶601136708

MEX Error ellipse: s-maj=11.1km s-min=5.9km az=-1.0.
MEX I 04 06 53 21.8–.40 16.05N 97.54W 15–7 3.7
¶601136710

MEX Error ellipse: s-maj=6.6km s-min=5.0km az=-1.0.
MEX I 08 07 42 12.7–.48 17.58N 95.74W 45–66 4.0
¶601136746

MEX Error ellipse: s-maj=15.8km s-min=8.9km az=-1.0.
MEX I 10 01 14 20.7–.40 16.79N 94.28W 114–13 4.1
¶601136763

MEX Error ellipse: s-maj=14.5km s-min=6.3km az=-1.0.
MEX I 11 01 19 40.6–.54 16.48N 96.07W 22–33 4.1
NEIC I 11 01 19 41.2 16.52N 96.08W 16 4.1 ¶16016413
MEX Error ellipse: s-maj=8.8km s-min=11.1km az=-1.0.
NEIC Event type se. After MEX.
ISC I 11 05 20 32.7–.85 16.57N–.06 94.08W–.04 84–11 3.8b **79 1-84**
IDC I 11 05 20 29.1–1.7 16.71N 93.71W 105–26 3.8,3.7 ¶17189898
ISCJB I 11 05 20 32.5–.48 16.60N–.05 94.09W–.04 98–5 3.7b,3.7
MEX I 11 05 20 33.3–.61 16.67N 94.01W 116–9 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=58.6km s-min=16.4km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.0km az=21.9.

MEX Error ellipse: s-maj=4.4km s-min=4.3km az=-1.0.
MEX I 14 06 31 35.2–.48 16.08N 97.60W 16–6 4.2
NEIC I 14 06 31 35.2 16.08N 97.60W 16 4.2 ¶16012668
MEX Error ellipse: s-maj=5.3km s-min=2.9km az=-1.0.
NEIC Event type se. After MEX.
MEX I 15 05 35 09.3–.95 16.47N 94.08W 132–10 4.0
NEIC I 15 05 35 09.3 16.47N 94.08W 132 4.0 ¶16012669
MEX Error ellipse: s-maj=6.9km s-min=3.7km az=-1.0.
NEIC Event type se. After MEX.
MEX I 15 12 44 42.3–.53 16.71N 94.14W 119–9 4.2
NEIC I 15 12 44 45.8 16.21N 94.33W 64 4.2 ¶16057171
MEX Error ellipse: s-maj=6.7km s-min=3.1km az=-1.0.
NEIC Event type se. After MEX.
MEX I 21 13 13 31.0–1.0 16.49N 94.48W 131–22 4.0
NEIC I 21 13 13 31.0 16.49N 94.48W 131 4.0 ¶16176376
MEX Error ellipse: s-maj=13.6km s-min=4.2km az=-1.0.
NEIC Event type se. After MEX.
MEX I 22 23 04 55.3–.65 16.94N 95.72W 91–16 4.1
NEIC I 22 23 04 57.0 16.93N 95.67W 68 4.0 ¶16160590
MEX Error ellipse: s-maj=6.1km s-min=7.3km az=-1.0.
NEIC Event type se. After MEX.
MEX I 24 10 48 31.6–.43 16.79N 96.16W 8–6 3.7
¶601136862
MEX Error ellipse: s-maj=3.5km s-min=4.0km az=-1.0.
ISC I 24 14 12 12.4–.84 16.72N–.06 94.50W–.04 113–8 3.3b 38 1-59
IDC I 24 14 12 10.3–3.4 16.59N 94.27W 113–12 3.5,3.4 ¶16020112
ISCJB I 24 14 12 11.7–.56 16.73N–.06 94.51W–.04 119–5 3.3b,3.4
NEIC I 24 14 12 14.7 16.83N 94.47W 111 4.2,3.4
MEX I 24 14 12 14.7–.36 16.83N 94.47W 111–6 4.2,3.4
ISC Event type se.
IDC Error ellipse: s-maj=71.4km s-min=30.9km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=5.6km az=7.9.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=4.8km s-min=2.3km az=-1.0.
MEX I 24 20 37 34.6–.43 16.04N 96.58W 20–68 4.1
¶601136865
MEX Error ellipse: s-maj=3.2km s-min=8.7km az=-1.0.
MEX I 26 06 34 02.0–.39 16.22N 97.96W 16–999 3.5
¶601136878
MEX Error ellipse: s-maj=12.6km s-min=5.2km az=-1.0.
MEX I 29 13 48 24.2–.54 16.22N 95.82W 16–9 3.8
¶601136900
MEX Error ellipse: s-maj=2.9km s-min=7.3km az=-1.0.
MEX I 31 04 20 48.4–.41 16.14N 97.99W 16–9 3.6
¶601136907
MEX Error ellipse: s-maj=8.5km s-min=3.0km az=-1.0.
MEX I 31 21 45 05.1–.83 17.03N 95.28W 119–17 4.0
NEIC I 31 21 45 05.1 17.03N 95.28W 119 4.0,4.0b ¶16328591
MEX Error ellipse: s-maj=10.6km s-min=4.7km az=-1.0.
NEIC Event type se. After MEX.
MEX II 01 06 28 48.4–.34 16.20N 96.04W 37–12 4.3
NEIC II 01 06 28 48.4 16.20N 96.04W 37 4.6b,4.3 ¶16337739
MEX Error ellipse: s-maj=4.8km s-min=4.0km az=-1.0.
NEIC Event type se. After MEX.
MEX II 01 08 08 53.0–.92 16.54N 95.79W 20–282 4.3
¶601136911
MEX Error ellipse: s-maj=12.6km s-min=31.8km az=-1.0.
MEX II 02 00 55 46.8–.64 16.42N 94.40W 98–16 4.0
¶601136913
MEX Error ellipse: s-maj=6.3km s-min=3.3km az=-1.0.
MEX II 03 00 49 54.7–.75 16.09N 97.53W 20–856 3.8
¶601136922
MEX Error ellipse: s-maj=21.1km s-min=21.9km az=-1.0.
MEX II 03 18 45 23.2–.38 17.01N 95.21W 103–3 4.1
¶601136927
MEX Error ellipse: s-maj=4.8km s-min=1.7km az=-1.0.
MEX II 04 07 06 20.6–.68 16.27N 95.83W 16–101 3.9
¶601136931
MEX Error ellipse: s-maj=23.6km s-min=142.3km az=-1.0.
ISC II 04 17 32 01.1–.64 17.30N–.03 96.53W–.03 71–6 4.0b 156 0-63
ISCJB II 04 17 32 00.2–.27 17.23N–.03 96.55W–.02 79–3 3.9b ¶16007679
MEX II 04 17 32 02.2–1.2 17.25N 96.56W 76–6 4.5
NEIC II 04 17 32 02.2 17.25N 96.56W 76 4.5,4.1b
IDC II 04 17 32 03.9–2.2 17.49N 96.23W 86–18 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.9km az=20.5.
MEX Error ellipse: s-maj=7.6km s-min=4.7km az=-1.0.
NEIC Event type fe. Felt at Oaxaca. After MEX.
IDC Error ellipse: s-maj=33.5km s-min=13.5km az=58.0.
MEX II 06 15 53 08.9–.40 17.07N 95.24W 102–18 4.0
NEIC II 06 15 53 08.9 17.07N 95.24W 102 4.0 ¶16358540
MEX Error ellipse: s-maj=23.0km s-min=8.4km az=-1.0.
NEIC Event type se. After MEX.
MEX II 06 20 57 13.7–.63 16.23N 97.12W 50–60 3.9
¶601136950
MEX Error ellipse: s-maj=15.2km s-min=18.3km az=-1.0.
MEX II 08 15 55 27.8–.43 16.99N 97.28W 16–999 3.9
¶601136957
MEX Error ellipse: s-maj=27.9km s-min=12.0km az=-1.0.
MEX II 08 17 01 53.4–.29 17.74N 97.73W 60–3 3.7
¶601136958
MEX Error ellipse: s-maj=9.5km s-min=5.9km az=-1.0.
MEX II 09 08 35 00.0–.34 17.49N 96.42W 30–12 3.9
¶601136965
MEX Error ellipse: s-maj=5.6km s-min=10.3km az=-1.0.
MEX II 09 14 08 28.7–.92 16.92N 94.81W 80–38 3.9
¶601136969
MEX Error ellipse: s-maj=22.8km s-min=7.4km az=-1.0.
NEIC II 10 15 43 48.7 17.04N 95.45W 108 4.1
MEX II 10 15 43 48.7–.49 17.04N 95.45W 108–11 4.1 ¶16328797
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=6.6km s-min=7.0km az=-1.0.
MEX II 11 06 03 21.4–.76 17.30N 96.00W 88–11 4.1
NEIC II 11 06 03 21.4 17.30N 96.00W 88 4.1 ¶16328806
MEX Error ellipse: s-maj=8.1km s-min=3.7km az=-1.0.
NEIC Event type se. After MEX.
MEX II 14 02 45 30.8–1.2 16.61N 94.87W 79–54 4.0
NEIC II 14 02 45 30.8 16.61N 94.87W 79 4.0 ¶16314211
MEX Error ellipse: s-maj=14.8km s-min=7.4km az=-1.0.
NEIC Event type se. After MEX.
MEX II 15 08 34 53.1–.89 17.56N 95.07W 126–10 4.0
NEIC II 15 08 34 53.1 17.56N 95.07W 126 4.0 ¶16310102
MEX Error ellipse: s-maj=15.7km s-min=6.7km az=-1.0.
NEIC Event type se. After MEX.
MEX II 21 08 02 53.4–.67 16.33N 94.77W 132–17 3.8
¶601137074
MEX Error ellipse: s-maj=11.5km s-min=3.7km az=-1.0.
MEX II 22 08 38 03.2–.32 16.02N 94.78W 118–13 4.1
¶601137084
MEX Error ellipse: s-maj=21.7km s-min=3.0km az=-1.0.
MEX II 23 20 03 17.2–.75 16.14N 96.92W 25–33 4.3
NEIC II 23 20 03 17.2 16.14N 96.92W 25 4.3 ¶16342390
MEX Error ellipse: s-maj=4.9km s-min=6.8km az=-1.0.
NEIC Event type se. After MEX.
ISC II 25 13 07 27.0–.24 17.82N–.03 95.17W–.03 131–1 5.6b 1757 1-167
MOS II 25 13 07 26.2–1.0 18.02N 94.99W 123 5.7b,5.1s ¶16160043
ISCJB II 25 13 07 26.1–.17 17.94N–.01 95.06W–.01 129–1 5.6b,5.1s
BJI II 25 13 07 26.8 17.90N 95.00W 127 5.5b,5.2b
GCMT II 25 13 07 26.5–.10 17.98N 95.20W 128–0 6.0W,5.2b
CASC II 25 13 07 26.0–3.6 17.97N 94.98W 123 5.7b,5.5
NEIC II 25 13 07 26.5–.27 17.84N 95.01W 123–2 6.0,5.9W
IDC II 25 13 07 27.8–.38 17.90N 95.04W 135–3 5.6,5.3
NEIC II 25 13 07 28.0–.00 17.97N 94.98W 132 5.6,5.3
MEX II 25 13 07 28.2–3.0 17.69N 95.21W 135–11 6.0,5.3
ISC Event type fe.
MOS Error ellipse: s-maj=6.4km s-min=3.7km az=99.7.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=135.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s137,c286; s139,c409;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06±.01 $M_{\theta\theta}$0.14±.01; $M_{\phi\phi}$0.91±.01; $M_{r\theta}$0.32±.01; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$-0.05±.01; Best double couple: NP1: ϕ_s318.00000°,δ52.00000°,λ-109.00000°. NP2:ϕ_s167.00000°,δ42.00000°,λ-68.00000°. Principal axes: T 1.2290,Plg5.0000°,Azm61.0000°; N -0.0870,Plg15.0000°,Azm330.0000° ; P -1.1460,Plg74.0000°,Azm169.0000° $M_0$1.18700×10^{18}
CASC Error ellipse: s-maj=128.9km s-min=120.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=219.0. Felt [IV] at Coatzacoalcos and Jalapa; [III] at Hualtulco, Mitla, Oaxaca and Puerto Escondido; [II] at Mexico, Puebla and Villahermosa. Felt widely in Chiapas, Morelos, Oaxaca, Puebla, Tabasco and Veracruz. Also felt in western Guatemala. Moment Tensor Solution. s38 Moment tensor: Scale 10^{17}Nm; M_{rr}-9.49 $M_{\theta\theta}$2.07 $M_{\phi\phi}$7.42 $M_{r\theta}$1.32 $M_{\theta\phi}$-2.71 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s329.00000° ,δ44.00000°,λ-102.00000°. NP2:ϕ_s166.00000°,δ47.00000°,λ-78.00000°. Principal axes: T 8.5600,Plg1.0000°,Azm248.0000°; N 1.1700,Plg8.0000°,Azm338.0000° ; P -9.7300,Plg81.0000°,Azm150.0000° $M_0$9.20000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=6.0km az=52.0.
NEIC Event type se. Moment Tensor Solution. s109 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.00 $M_{\theta\theta}$0.17 $M_{\phi\phi}$0.83 $M_{r\theta}$0.30 $M_{\theta\phi}$-0.36 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s322.00000° ,δ50.00000°,λ-108.00000°. NP2:ϕ_s169.00000°,δ43.00000°,λ-69.00000°. Principal axes: T 1.0000,Plg3.0000°,Azm65.0000°; N 0.0800,Plg13.0000°,Azm334.0000° ; P -1.0700,Plg75.0000°,Azm169.0000° $M_0$1.00000×10^{18}
MEX Error ellipse: s-maj=10.5km s-min=7.0km az=-1.0.
MEX II 25 19 53 46.9–.48 17.81N 95.31W 141–29 3.5
¶601137116
MEX Error ellipse: s-maj=11.2km s-min=18.9km az=-1.0.
MEX II 26 02 58 54.7–.55 16.57N 94.27W 110–8 3.8
¶601137121
MEX Error ellipse: s-maj=4.6km s-min=3.4km az=-1.0.
MEX II 26 03 46 05.3–.32 17.89N 95.23W 144–63 4.0
NEIC II 26 03 46 05.3 17.89N 95.23W 144 4.0 ¶16310792
MEX Error ellipse: s-maj=34.4km s-min=30.1km az=-1.0.
NEIC Event type se. After MEX.
MEX II 26 04 53 52.3–.63 16.07N 96.77W 4–9 3.7
¶601137123
MEX Error ellipse: s-maj=9.0km s-min=6.4km az=-1.0.
MEX II 28 04 29 54.4–.77 17.73N 95.29W 123–11 4.3
NEIC II 28 04 29 54.4 17.73N 95.29W 123 4.3 ¶16349995
MEX Error ellipse: s-maj=8.8km s-min=5.7km az=-1.0.
NEIC Event type se. After MEX.
MEX III 01 13 39 03.4–.43 16.04N 94.15W 73–8 4.0
¶601137148
MEX Error ellipse: s-maj=3.2km s-min=3.9km az=-1.0.
MEX III 02 09 23 37.6–.88 17.21N 95.06W 146–14 4.0
¶601137153
MEX Error ellipse: s-maj=6.9km s-min=3.5km az=-1.0.
MEX III 05 07 23 42.6–.39 16.82N 94.09W 132–5 4.2
NEIC III 05 07 23 42.6 16.82N 94.09W 132 4.2 ¶16442186
MEX Error ellipse: s-maj=4.2km s-min=2.9km az=-1.0.
NEIC Event type se. After MEX.
MEX III 05 22 46 55.1–1.3 16.99N 95.64W 94–18 3.6
¶601137181
MEX Error ellipse: s-maj=8.3km s-min=5.6km az=-1.0.
MEX III 06 04 40 51.3–.49 17.58N 95.33W 182–9 4.4
NEIC III 06 04 40 51.3 17.58N 95.33W 182 4.4 ¶16484440
MEX Error ellipse: s-maj=7.3km s-min=4.7km az=-1.0.
NEIC Event type se. After MEX.
MEX III 06 11 14 54.9–.50 16.01N 97.58W 16–9 3.9
¶601137186
MEX Error ellipse: s-maj=6.2km s-min=2.8km az=-1.0.
MEX III 08 18 08 38.6–.65 16.08N 97.72W 28–24 3.7
¶601137204
MEX Error ellipse: s-maj=6.1km s-min=6.2km az=-1.0.
MEX III 08 23 37 41.7–1.1 17.77N 95.22W 150–19 3.8
¶601137206
MEX Error ellipse: s-maj=8.7km s-min=5.8km az=-1.0.
MEX III 13 00 59 48.2–.70 16.13N 94.18W 90–10 3.6
¶601137238
MEX Error ellipse: s-maj=4.8km s-min=3.1km az=-1.0.
MEX III 13 09 39 42.9–.79 17.05N 95.19W 135–13 4.1
NEIC III 13 09 39 42.9 17.05N 95.19W 135 4.1 ¶16442353
MEX Error ellipse: s-maj=6.6km s-min=4.2km az=-1.0.
NEIC Event type se. After MEX.
MEX III 14 02 24 11.0–.52 16.33N 94.63W 89–13 3.6
¶601137247
MEX Error ellipse: s-maj=5.7km s-min=2.5km az=-1.0.
MEX III 14 10 26 53.2–.75 16.20N 94.20W 80–14 3.9
¶601137250
MEX Error ellipse: s-maj=6.2km s-min=2.6km az=-1.0.
MEX III 15 08 13 49.3–.96 17.85N 95.20W 159–15 4.0
NEIC III 15 08 13 50.1 17.83N 95.21W 154 4.0 ¶16442373
MEX Error ellipse: s-maj=10.3km s-min=5.1km az=-1.0.
NEIC Event type se. After MEX.
MEX III 16 06 37 04.1–1.1 16.51N 94.46W 100–15 4.0
NEIC III 16 06 37 04.1 16.50N 94.46W 100 4.0 ¶16509584
MEX Error ellipse: s-maj=8.5km s-min=3.9km az=-1.0.
NEIC Event type se. After MEX.
MEX III 17 15 52 55.1–.93 17.96N 96.04W 120–21 3.9
¶601137283
MEX Error ellipse: s-maj=16.7km s-min=15.5km az=-1.0.
MEX III 20 13 30 56.5–.40 17.13N 96.66W 72–6 3.9
¶601137309
MEX Error ellipse: s-maj=7.5km s-min=6.8km az=-1.0.
MEX III 20 17 48 50.6–.87 16.75N 94.92W 123–18 4.1
NEIC III 20 17 48 50.6 16.75N 94.92W 123 4.1 ¶16512195
MEX Error ellipse: s-maj=7.8km s-min=3.3km az=-1.0.
NEIC Event type se. After MEX.
MEX III 21 03 42 57.8–1.0 17.82N 97.51W 63–7 4.0
NEIC III 21 03 42 57.8 17.82N 97.51W 63 4.0 ¶16440428
MEX Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. After MEX.
MEX III 22 14 06 59.9–.85 17.76N 95.08W 152–16 3.9
¶601137323
MEX Error ellipse: s-maj=10.7km s-min=4.4km az=-1.0.
MEX III 22 16 18 10.6–.37 16.23N 97.83W 9–7 4.0
NEIC III 22 16 18 10.6 16.23N 97.83W 9 4.0 ¶16449023
MEX Error ellipse: s-maj=6.8km s-min=5.4km az=-1.0.
NEIC Event type se. After MEX.
ISC III 23 03 23 56.5–.84 16.94N–.08 94.24W–.04 143–10 30 1-48
IDC III 23 03 23 30.9–24 16.31N 92.69W 0 3.6,3.4 ¶16440429
ISCJB III 23 03 23 56.1–.65 16.95N–.09 94.25W–.04 138–9 2.9b,3.4
MEX III 23 03 23 57.5–.50 17.03N 94.19W 145–6 4.0,3.4
NEIC III 23 03 23 57.5 17.03N 94.19W 145 4.0,3.4
ISC Event type se.
IDC Error ellipse: s-maj=564.3km s-min=130.7km az=23.0.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=5.5km az=12.2.
MEX Error ellipse: s-maj=5.5km s-min=2.7km az=-1.0.
NEIC Event type se. After MEX.
MEX III 24 11 48 46.6–.65 16.36N 95.06W 121–15 3.6
¶601137342
MEX Error ellipse: s-maj=8.1km s-min=3.9km az=-1.0.
ISC III 26 06 33 25.1–1.5 16.35N–.04 96.37W–.04 34–3 3.6b 34 1-59
ISCJB III 26 06 33 24.0–.47 16.34N–.05 96.37W–.03 51–7 3.6b ¶16440432
NEIC III 26 06 33 26.0 16.33N 96.37W 54 4.2
MEX III 26 06 33 26.0–.59 16.33N 96.37W 54–9 4.2

IDC III 26 06 33 31.0–2.5 16.72N 95.91W 80–24 3.7,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.9km az=23.4.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=3.5km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=38.4km s-min=29.2km az=19.0.
MEX III 28 03 06 23.3–.80 16.84N 94.14W 124–16 3.7
¶601137376

MEX Error ellipse: s-maj=11.9km s-min=4.2km az=-1.0.
MEX III 29 07 35 40.9–.55 16.04N 94.36W 69–12 4.0
NEIC III 29 07 35 40.9 16.04N 94.36W 69 4.0 **¶16440433**
MEX Error ellipse: s-maj=8.9km s-min=2.7km az=-1.0.
NEIC Event type se. After MEX.
MEX III 29 17 22 38.8–.35 16.03N 94.91W 19–11 3.7
¶601137396

MEX Error ellipse: s-maj=7.5km s-min=1.2km az=-1.0.
MEX III 31 05 43 28.0–.76 16.58N 94.62W 90–14 3.6
¶601137425

MEX Error ellipse: s-maj=7.0km s-min=2.7km az=-1.0.
MEX III 31 11 31 11.0–.81 17.20N 95.16W 143–17 3.8
¶601137432

MEX Error ellipse: s-maj=8.2km s-min=4.5km az=-1.0.
MEX III 31 17 13 16.5–.41 16.20N 94.43W 65–10 3.7
¶601137434

MEX Error ellipse: s-maj=3.4km s-min=1.4km az=-1.0.
MEX IV 01 01 32 14.7–.59 16.69N 96.36W 66–6 3.6
¶602595763

MEX Error ellipse: s-maj=3.2km s-min=4.2km az=-1.0.
MEX IV 02 05 46 21.2–.31 16.50N 94.41W 47–95 3.7
¶602595799

MEX Error ellipse: s-maj=21.0km s-min=15.2km az=-1.0.
MEX IV 05 12 02 09.5–.39 16.73N 94.49W 58–116 3.5
¶602595936

MEX Error ellipse: s-maj=55.7km s-min=4.4km az=-1.0.
MEX IV 05 17 39 29.2–.79 17.48N 95.88W 133–14 3.7
¶602595937

MEX Error ellipse: s-maj=9.5km s-min=12.2km az=-1.0.
ISC IV 05 20 17 35.2–.76 16.52N–.04 95.65W–.03 56–7 4.1b 213 1-121
ISCJB IV 05 20 17 34.4–.33 16.48N–.03 95.67W–.02 73–3 4.1b **¶16411037**
NEIC IV 05 20 17 36.0–.66 16.58N 95.61W 60–5 4.3b,4.1
MEX IV 05 20 17 38.1–.67 16.50N 95.66W 41–35 4.1,4.1
IDC IV 05 20 17 39.3–1.6 16.92N 95.41W 73–8 4.0s,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=0.1.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=5.7km az=196.0.
MEX Error ellipse: s-maj=4.5km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=30.7km s-min=19.3km az=18.0.
MEX IV 06 01 19 16.5–.48 16.52N 94.83W 133–15 3.9
¶602595963

MEX Error ellipse: s-maj=6.6km s-min=2.8km az=-1.0.
MEX IV 06 10 51 45.7–.29 16.12N 95.77W 74–6 4.0
NEIC IV 06 10 51 45.7 16.12N 95.77W 74 4.0 **¶16577698**
MEX Error ellipse: s-maj=4.3km s-min=7.8km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 07 18 33 54.7–.76 16.77N 95.35W 141–17 3.8
¶602595994

MEX Error ellipse: s-maj=10.8km s-min=6.5km az=-1.0.
ISC IV 08 08 45 03.7–.59 16.87N–.06 94.24W–.03 133–7 3.6b 64 1-84
NEIC IV 08 08 45 03.7 17.08N 94.19W 143 4.2 **¶16577743**
MEX IV 08 08 45 03.7–.56 17.08N 94.19W 143–9 4.2
ISCJB IV 08 08 45 05.0–.43 17.01N–.05 94.25W–.04 104–6 3.6b
IDC IV 08 08 45 05.5–3.6 17.34N 93.78W 184–31 3.7,3.5
ISC Event type se.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=4.3km s-min=2.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.4km az=13.9.
IDC Error ellipse: s-maj=34.6km s-min=13.8km az=47.0.
MEX IV 09 11 20 19.7–.66 17.59N 95.02W 139–7 4.1
NEIC IV 09 11 20 19.5 17.59N 95.02W 141 4.1 **¶16577772**
MEX Error ellipse: s-maj=5.6km s-min=2.6km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 09 17 26 44.3–.83 16.98N 94.18W 163–22 3.8
¶602596044

MEX Error ellipse: s-maj=14.6km s-min=4.7km az=-1.0.
MEX IV 10 08 56 35.6–.51 16.16N 94.11W 3–5 3.7
¶602596059

MEX Error ellipse: s-maj=3.1km s-min=1.6km az=-1.0.
MEX IV 10 10 03 41.9–.65 16.47N 95.34W 110–13 3.6
¶602596062

MEX Error ellipse: s-maj=7.7km s-min=4.3km az=-1.0.
MEX IV 10 13 05 26.6–.75 16.11N 97.18W 27–22 3.7
¶602596063

MEX Error ellipse: s-maj=4.0km s-min=2.7km az=-1.0.
MEX IV 11 01 28 27.0–.57 16.03N 94.21W 73–15 3.8
¶602596098

MEX Error ellipse: s-maj=5.8km s-min=4.4km az=-1.0.
MEX IV 12 04 45 26.4–.25 16.98N 94.36W 146–7 3.9
¶602596122

MEX Error ellipse: s-maj=6.1km s-min=2.5km az=-1.0.
MEX IV 12 10 44 06.4–.64 16.01N 97.12W 16–999 3.7
¶602596123

MEX Error ellipse: s-maj=4.0km s-min=3.2km az=-1.0.
MEX IV 13 04 24 11.4–.50 16.69N 94.91W 118–14 3.9
¶602596144

MEX Error ellipse: s-maj=7.8km s-min=3.6km az=-1.0.
MEX IV 14 08 04 34.7–.51 16.99N 94.14W 131–8 4.0
NEIC IV 14 08 04 34.7 16.99N 94.14W 131 4.1b,4.0 **¶16577802**
MEX Error ellipse: s-maj=3.9km s-min=2.9km az=-1.0.
NEIC Event type se. After MEX.
ISC IV 14 16 33 44.8–.59 16.67N–.04 95.12W–.03 91–6 4.2b 158 0-134
ISCJB IV 14 16 33 44.1–.35 16.56N–.03 95.09W–.03 103–3 4.0b **¶16442648**
IDC IV 14 16 33 44.5–.80 16.77N 94.89W 86–5 4.0,3.9
NEIC IV 14 16 33 45.3–.67 16.70N 95.06W 92–8 4.4,4.2b
MEX IV 14 16 33 46.0–.45 16.77N 95.05W 109–13 4.4,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.4km az=34.8.
IDC Error ellipse: s-maj=21.3km s-min=12.4km az=42.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.4km az=213.0.
MEX Error ellipse: s-maj=6.3km s-min=3.3km az=-1.0.
MEX IV 15 10 30 06.7–.56 16.20N 95.46W 88–19 3.8
¶602596200

MEX Error ellipse: s-maj=12.3km s-min=6.4km az=-1.0.
ISC IV 17 06 09 44.4–.43 16.98N–.05 94.12W–.04 154–3 4.2b 240 1-145
BJI IV 17 06 09 42.1 16.90N 94.10W 150 5.0b **¶16447739**
ISCJB IV 17 06 09 43.3–.25 16.91N–.03 94.13W–.03 163–2 3.9b
IDC IV 17 06 09 44.0–.60 17.14N 93.92W 151–5 4.1,3.9
MEX IV 17 06 09 46.1–.60 17.08N 94.14W 147–6 4.9,3.9
NEIC IV 17 06 09 46.0 17.07N 94.15W 147 4.9,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=23.8.
IDC Error ellipse: s-maj=24.7km s-min=9.7km az=54.0.
MEX Error ellipse: s-maj=3.5km s-min=2.9km az=-1.0.
NEIC Event type fe. Felt at Tuxtla Gutierrez. After MEX.
MEX IV 18 12 41 11.4–1.8 16.48N 94.70W 82–101 3.8
¶602596306

MEX Error ellipse: s-maj=47.2km s-min=17.3km az=-1.0.
MEX IV 19 02 34 21.5–.85 16.35N 94.43W 105–21 3.9
¶602596347

MEX Error ellipse: s-maj=13.2km s-min=5.8km az=-1.0.
MEX IV 19 19 06 58.2–.48 16.01N 97.31W 16–29 3.9
¶602596356

MEX Error ellipse: s-maj=27.6km s-min=11.0km az=-1.0.
MEX IV 20 06 46 01.7–1.2 16.49N 94.67W 80–36 4.0
NEIC IV 20 06 46 01.7 16.49N 94.67W 80 4.0 **¶16596710**
MEX Error ellipse: s-maj=13.3km s-min=5.3km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 20 16 01 19.5–.38 16.01N 94.58W 54–18 3.9
¶602596384

MEX Error ellipse: s-maj=11.7km s-min=1.5km az=-1.0.
MEX IV 21 01 01 42.8–1.4 16.70N 94.53W 100–45 3.9
¶602596416

MEX Error ellipse: s-maj=20.4km s-min=9.3km az=-1.0.
MEX IV 21 07 44 33.0–.50 16.04N 96.28W 5 3.9
¶602596417

MEX Error ellipse: s-maj=4.0km s-min=5.0km az=-1.0.
MEX IV 22 06 04 41.7–.44 17.00N 94.85W 114–21 3.9
¶602596454

MEX Error ellipse: s-maj=12.6km s-min=6.1km az=-1.0.
MEX IV 22 18 52 11.9–.35 16.51N 96.58W 20–50 3.8
¶602596461

MEX Error ellipse: s-maj=2.3km s-min=3.0km az=-1.0.
MEX IV 24 01 15 55.3–.48 16.11N 96.28W 20–134 3.6
¶602596520

MEX Error ellipse: s-maj=15.3km s-min=7.3km az=-1.0.
MEX IV 24 11 12 36.0–.45 16.10N 95.83W 28–13 3.6
¶602596526

MEX Error ellipse: s-maj=4.0km s-min=9.5km az=-1.0.
MEX IV 27 13 11 52.8–.60 16.93N 94.92W 106–13 3.7
¶602596624

MEX Error ellipse: s-maj=3.9km s-min=2.9km az=-1.0.
MEX IV 27 18 20 11.1–.87 17.29N 96.07W 112–19 3.8
¶602596628

MEX Error ellipse: s-maj=16.9km s-min=29.8km az=-1.0.
MEX IV 27 22 32 05.5–1.1 16.70N 94.50W 106–34 3.8
¶602596632

MEX Error ellipse: s-maj=12.1km s-min=6.3km az=-1.0.
MEX IV 28 17 09 47.8–.48 16.23N 97.79W 37–9 3.6
¶602596654

MEX Error ellipse: s-maj=6.3km s-min=3.6km az=-1.0.
MEX IV 28 23 08 47.2–.66 16.80N 95.16W 107–25 3.5
¶602596659

MEX Error ellipse: s-maj=7.4km s-min=6.6km az=-1.0.
MEX IV 29 13 24 51.0–.56 16.15N 94.37W 13–9 4.2
NEIC IV 29 13 24 51.0 16.15N 94.37W 13 4.2 **¶16649590**
MEX Error ellipse: s-maj=7.9km s-min=4.0km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 29 14 24 04.3–.47 16.80N 94.24W 135–14 4.3
NEIC IV 29 14 24 04.0 16.80N 94.24W 134 4.2 **¶16649592**
MEX Error ellipse: s-maj=8.9km s-min=4.3km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 30 07 57 51.2–.42 16.04N 97.14W 12–8 4.0
NEIC IV 30 07 57 51.2 16.04N 97.14W 12 4.0 **¶16577929**
MEX Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.
NEIC Event type se. After MEX.
ISC V 01 09 05 22.5–1.3 16.33N–.06 97.50W–.04 25–11 3.9b 43 1-59
ISCJB V 01 09 05 22.8–.76 16.32N–.06 97.51W–.03 36–8 3.9b **¶16684740**
MEX V 01 09 05 24.9–.64 16.30N 97.53W 29–10 4.2
NEIC V 01 09 05 25.0 16.31N 97.54W 20 4.2,4.1b
IDC V 01 09 05 25.3–5.3 15.85N 97.06W 100–36 3.6,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=5.4km az=178.5.
MEX Error ellipse: s-maj=5.3km s-min=2.4km az=-1.0.
NEIC Event type se. After MEX.
IDC Error ellipse: s-maj=69.9km s-min=35.1km az=176.0.
MEX V 02 15 26 11.4–.79 16.85N 95.12W 116–21 3.7
¶602597590

MEX Error ellipse: s-maj=7.5km s-min=3.7km az=-1.0.
MEX V 04 02 59 02.7–.86 16.69N 96.65W 59–13 3.7
¶602597604

MEX Error ellipse: s-maj=6.0km s-min=4.2km az=-1.0.
MEX V 04 14 05 47.6–.48 17.38N 96.13W 16–11 3.6
¶602597609

MEX Error ellipse: s-maj=6.4km s-min=6.4km az=-1.0.
MEX V 07 22 24 07.9–.68 16.88N 95.06W 153–18 3.7
¶602597642

MEX Error ellipse: s-maj=9.8km s-min=6.4km az=-1.0.
MEX V 09 06 24 19.7–.34 16.03N 95.97W 31–48 3.7
¶602597663

MEX Error ellipse: s-maj=29.2km s-min=24.4km az=-1.0.
MEX V 10 10 45 51.7–.49 16.30N 97.89W 5 3.6
¶602597679

MEX Error ellipse: s-maj=6.8km s-min=2.7km az=-1.0.
MEX V 11 13 25 17.0–.39 16.25N 96.21W 59–4 3.9
¶602597692

MEX Error ellipse: s-maj=1.5km s-min=2.5km az=-1.0.
ISC V 11 17 31 42.0–.57 16.31N–.03 95.97W–.03 29–3 4.1b 108 1-142
IDC V 11 17 31 44.5–.90 16.34N 95.94W 45–7 4.0,3.9 **¶16560033**
MEX V 11 17 31 44.3–.54 16.24N 96.16W 64–5 4.3,3.9
NEIC V 11 17 31 44.3 16.24N 96.16W 64 4.3,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=13.7km az=49.0.
MEX Error ellipse: s-maj=2.1km s-min=2.5km az=-1.0.
NEIC Event type se. After MEX.
MEX V 14 20 48 43.2–.52 16.25N 95.73W 24–16 3.5
¶602597735

MEX Error ellipse: s-maj=6.1km s-min=4.7km az=-1.0.
MEX V 14 21 22 01.5–.42 16.67N 94.28W 172–10 3.8
¶602597738

MEX Error ellipse: s-maj=11.1km s-min=3.4km az=-1.0.
MEX V 15 02 08 10.7–.91 16.70N 95.02W 140–22 3.6
¶602597742

MEX Error ellipse: s-maj=15.0km s-min=5.5km az=-1.0.
MEX V 16 06 38 45.8–.59 16.20N 97.69W 31–7 3.8
¶602597760

MEX Error ellipse: s-maj=3.6km s-min=2.9km az=-1.0.
MEX V 22 14 31 04.9–1.0 16.62N 94.73W 64–26 4.2
NEIC V 22 14 31 04.9 16.62N 94.73W 64 4.2 **¶602597824**
MEX Error ellipse: s-maj=4.5km s-min=3.4km az=-1.0.
NEIC Event type se. After MEX.
MEX V 22 16 17 40.6–.69 16.79N 95.41W 120–14 3.9
¶602597825

MEX Error ellipse: s-maj=7.3km s-min=5.0km az=-1.0.
MEX V 22 20 58 40.4–.73 16.81N 94.54W 127–10 4.0
NEIC V 22 20 58 40.4 16.81N 94.54W 127 4.0 **¶602597827**
MEX Error ellipse: s-maj=4.2km s-min=3.6km az=-1.0.
NEIC Event type se. After MEX.
MEX V 25 20 42 27.4–.51 17.23N 96.77W 76–3 3.8
¶602597854

MEX Error ellipse: s-maj=2.5km s-min=3.5km az=-1.0.
MEX V 27 23 52 44.8–.53 16.18N 97.16W 15–5 3.6
¶602597872

MEX Error ellipse: s-maj=3.2km s-min=2.0km az=-1.0.
MEX V 30 11 00 44.5–.84 16.87N 95.25W 127–23 3.7
¶602597886

MEX Error ellipse: s-maj=9.4km s-min=6.1km az=-1.0.
ISC VI 03 14 21 23.6–.52 17.87N–.04 95.18W–.04 125–4 4.6b 534 1-148
ISCJB VI 03 14 21 23.0–.26 17.87N–.02 95.06W–.02 137–2 4.5b **¶16577378**
IDC VI 03 14 21 23.6–.41 17.95N 94.97W 120–4 4.6,4.4
NEIC VI 03 14 21 25.0 17.69N 95.31W 135 4.9,4.6b
MEX VI 03 14 21 25.0–1.4 17.78N 95.21W 123–13 4.9,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.2km az=30.3.

IDC Error ellipse: s-maj=15.4km s-min=7.3km az=64.0.
NEIC Event type fe. Felt [III] at Oaxaca. Also felt at Coxcatlan, Esperanza, Tehuacan and Zinacatepec. After MEX.
MEX Error ellipse: s-maj=9.2km s-min=5.8km az=-1.0.
MEX VI 06 07 52 12.0–.64 16.00N 97.02W 31–37 3.6 ¶602597951

MEX Error ellipse: s-maj=4.8km s-min=3.5km az=-1.0.
MEX VI 06 22 20 20.7–.44 16.24N 96.29W 25–35 3.5 ¶602597957

MEX Error ellipse: s-maj=3.0km s-min=5.2km az=-1.0.
MEX VI 08 02 59 20.8–.32 16.13N 96.08W 67–6 3.5 ¶602597972

MEX Error ellipse: s-maj=3.0km s-min=4.6km az=-1.0.
MEX VI 09 19 44 08.2–1.1 16.65N 94.40W 165–26 3.7 ¶602597994

MEX Error ellipse: s-maj=21.3km s-min=6.9km az=-1.0.
MEX VI 10 04 57 02.2–.86 16.82N 94.25W 175–20 3.6 ¶602598007

MEX Error ellipse: s-maj=20.4km s-min=7.1km az=-1.0.
MEX VI 12 09 19 49.1–.78 16.93N 94.21W 163–19 4.3
NEIC VI 12 09 19 49.1 16.93N 94.21W 163 4.3 **¶16883000**
MEX Error ellipse: s-maj=16.2km s-min=6.3km az=-1.0.
NEIC Event type se. After MEX.
ISC VI 12 11 17 45.6–.46 17.20N–.03 95.12W–.03 114–4 4.6b 640 0-149
ISCJB VI 12 11 17 45.3–.31 17.22N–.02 94.94W–.02 130–2 4.6b **¶16591657**
IDC VI 12 11 17 45.7–.37 17.28N 94.94W 114–3 4.4s,4.4
MEX VI 12 11 17 47.1–.66 17.19N 95.15W 116–14 4.8,4.4
NEIC VI 12 11 17 47.1 17.19N 95.15W 116 4.8,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.4km az=0.3.
IDC Error ellipse: s-maj=13.0km s-min=8.1km az=67.0.
MEX Error ellipse: s-maj=4.0km s-min=5.2km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 12 21 57 42.7–1.2 16.79N 94.84W 161–28 4.0 ¶602598043

MEX Error ellipse: s-maj=15.7km s-min=12.6km az=-1.0.
MEX VI 12 23 17 22.2–.64 17.30N 95.57W 150–16 4.0 ¶602598044

MEX Error ellipse: s-maj=11.7km s-min=13.9km az=-1.0.
MEX VI 13 05 12 30.2–.71 16.82N 95.30W 159–19 4.1 ¶602598046

MEX Error ellipse: s-maj=22.9km s-min=24.3km az=-1.0.
MEX VI 16 09 58 56.6–.93 16.18N 95.60W 6–333 3.8 ¶602598075

MEX Error ellipse: s-maj=10.5km s-min=372.0km az=-1.0.
MEX VI 17 22 13 51.1–1.1 16.13N 97.80W 4–12 3.7 ¶602598095

MEX Error ellipse: s-maj=15.8km s-min=7.4km az=-1.0.
ISC VI 18 03 42 47.5–.72 17.09N–.06 95.20W–.04 122–9 3.7b 141 1-59
ISCJB VI 18 03 42 46.0–.35 17.07N–.05 95.18W–.04 135–5 3.5b **¶16730856**
IDC VI 18 03 42 47.7–4.8 17.23N 95.03W 115–42 3.7,3.5
NEIC VI 18 03 42 48.3 17.01N 95.26W 143 4.0,3.5
MEX VI 18 03 42 48.3–.96 17.01N 95.26W 143–17 4.0,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.1km az=19.2.
IDC Error ellipse: s-maj=38.7km s-min=17.5km az=45.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=11.0km s-min=6.7km az=-1.0.
MEX VI 20 04 20 20.2–.72 16.64N 94.37W 61–36 4.2
NEIC VI 20 04 20 20.2 16.64N 94.37W 61 4.2 **¶16912418**
MEX Error ellipse: s-maj=5.0km s-min=4.0km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 20 20 32 02.9–.84 17.47N 95.78W 110–10 4.4
NEIC VI 20 20 32 02.9 17.47N 95.78W 110 4.4 **¶602598121**
MEX Error ellipse: s-maj=4.8km s-min=3.3km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 20 21 10 43.3–.39 17.15N 95.25W 115–16 3.8 ¶602598122

MEX Error ellipse: s-maj=7.7km s-min=12.3km az=-1.0.
MEX VI 21 00 07 26.1–.28 16.29N 94.15W 107–7 4.0 ¶602598124

MEX Error ellipse: s-maj=12.8km s-min=2.8km az=-1.0.
MEX VI 23 07 26 11.8–1.1 16.56N 94.52W 104–29 4.1
NEIC VI 23 07 26 11.8 16.56N 94.52W 104 4.1 **¶602598141**
MEX Error ellipse: s-maj=18.7km s-min=6.5km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 24 21 01 22.7–.58 17.13N 96.21W 111–999 3.8 ¶602598157

MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
MEX VI 25 08 05 42.0–.79 16.49N 95.31W 115–13 4.2
NEIC VI 25 08 05 42.0 16.49N 95.31W 115 4.2 **¶16881027**
MEX Error ellipse: s-maj=7.7km s-min=7.2km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 26 06 51 06.6–.52 17.62N 95.51W 20 3.8 ¶602598170

MEX Error ellipse: s-maj=16.6km s-min=17.1km az=-1.0.
MEX VI 29 11 36 36.4–.99 16.26N 95.86W 16–720 3.7 ¶602598201

MEX Error ellipse: s-maj=153.4km s-min=979.9km az=-1.0.

(61) Chiapas.
MEX I 01 23 16 17.5–.33 17.25N 94.64W 122–8 3.9 ¶601135993

MEX Error ellipse: s-maj=3.5km s-min=2.3km az=-1.0.
MEX I 06 05 15 13.3–.49 17.71N 92.76W 12–23 3.7 ¶601136726

MEX Error ellipse: s-maj=9.8km s-min=32.3km az=-1.0.
MEX I 07 02 49 17.0–.98 16.05N 93.05W 120–13 3.5 ¶601136733

MEX Error ellipse: s-maj=18.6km s-min=12.6km az=-1.0.
MEX I 07 18 13 57.7–.41 16.17N 92.91W 45–33 3.6 ¶601136739

MEX Error ellipse: s-maj=7.7km s-min=8.7km az=-1.0.
ISC I 08 15 19 44.0–.88 17.72N–.09 94.60W–.06 149–10 3.2b 18 1-58
IDC I 08 15 19 42.8–2.5 17.69N 94.29W 145–43 3.2,3.2 **¶17189705**
ISCJB I 08 15 19 43.1–.59 17.72N–.08 94.59W–.06 152–8 3.1b,3.2
MEX I 08 15 19 45.0–.53 17.73N 94.59W 155–15 4.4,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=112.2km s-min=66.3km az=31.0.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=6.1km az=28.2.
MEX Error ellipse: s-maj=6.4km s-min=4.4km az=-1.0.
ISC I 10 16 56 23.7–.89 17.64N–.07 94.65W–.06 165–7 3.0b 21 0-59
IDC I 10 16 56 21.8–2.0 17.72N 94.11W 151–46 3.4,3.3 **¶17189869**
ISCJB I 10 16 56 22.7–.66 17.63N–.06 94.63W–.06 168–6 3.0b,3.3
MEX I 10 16 56 24.8–.57 17.69N 94.61W 169–5 4.3,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=109.6km s-min=26.8km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.2km az=21.9.
MEX Error ellipse: s-maj=4.5km s-min=3.1km az=-1.0.
MEX I 11 03 42 11.2–.54 17.22N 94.80W 82–18 4.5
NEIC I 11 03 42 11.2 17.22N 94.80W 82 4.5 **¶16016414**
MEX Error ellipse: s-maj=3.9km s-min=3.4km az=-1.0.
NEIC Event type se. After MEX.
MEX I 12 04 46 17.2–.49 17.45N 94.64W 144–10 4.2
NEIC I 12 04 46 17.2 17.45N 94.64W 144 4.2 **¶16016415**
MEX Error ellipse: s-maj=7.8km s-min=4.3km az=-1.0.
NEIC Event type se. After MEX.
MEX I 13 03 34 49.1–.51 17.46N 94.54W 162–14 4.1
NEIC I 13 03 34 49.1 17.46N 94.54W 162 4.1 **¶16016416**
MEX Error ellipse: s-maj=10.6km s-min=5.9km az=-1.0.
NEIC Event type se. After MEX.

MEX I 18 12 40 53.1–.57 17.08N 94.22W 154–7 4.4
NEIC I 18 12 40 52.8 17.05N 94.26W 155 4.4 **¶16160578**
MEX Error ellipse: s-maj=4.5km s-min=3.8km az=-1.0.
NEIC Event type se. After MEX.
ISC I 20 10 01 54.5–.45 16.70N–.04 93.74W–.04 158–3 4.8b 687 1-145
IDC I 20 10 01 52.8–1.3 16.90N 93.34W 131–12 4.6,4.3 **¶601990549**
NEIC I 20 10 01 54.9–.38 16.70N 93.60W 154–3 5.1,5.0b
GCMT I 20 10 01 54.9–.40 16.90N 93.72W 155–2 5.0W,5.0b
MOS I 20 10 01 55.7–1.3 16.96N 93.38W 173 4.6b,5.0b
ISCJB I 20 10 01 56.6–.36 16.86N–.03 93.45W–.03 188–3 4.8b,5.0b
MEX I 20 10 01 57.1–.57 16.68N 93.82W 129–6 5.1,5.0b
ISC Event type fe.
IDC Error ellipse: s-maj=15.8km s-min=7.6km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.9km az=214.0. Felt at Tlalixtac and Tuxtla Gutierrez.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c37; s85,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43±.13 $M_{\theta\theta}$-1.91±.14; $M_{\phi\phi}$2.34±.14; $M_{r\theta}$2.81±.11; $M_{\theta\phi}$-0.93±.17; $M_{\phi r}$-2.99±.10; Best double couple: NP1:ϕ_s312.00000°,δ86.00000°,λ-118.00000°. NP2:ϕ_s215.00000°,δ28.00000°,λ-8.00000°. Principal axes: T 5.0650,Plg35.0000°,Azm66.0000°; N -0.7610,Plg28.0000°,Azm314.0000°; P -4.3000,Plg42.0000°,Azm196.0000° $M_0$4.68200×10^{16}
MOS Error ellipse: s-maj=15.9km s-min=8.9km az=111.3.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=2.8km az=139.3.
MEX Error ellipse: s-maj=3.4km s-min=3.2km az=-1.0.
MEX I 22 13 57 01.6–.47 17.30N 94.65W 142–19 3.8 ¶601136837

MEX Error ellipse: s-maj=12.6km s-min=5.8km az=-1.0.
ISC I 24 08 07 41.2–.68 16.32N–.05 93.76W–.04 136–7 4.0b 37 1-84
IDC I 24 08 07 40.2–.86 16.29N 93.65W 124–9 4.1,3.9 **¶16135683**
NEIC I 24 08 07 42.2 16.31N 93.81W 137 4.1,4.0b
MEX I 24 08 07 42.2–.57 16.31N 93.81W 137–6 4.1,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=11.6km az=33.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=3.8km s-min=3.6km az=-1.0.
ISC I 25 04 28 31.7–.68 17.48N–.05 94.51W–.04 158–6 3.8b 47 1-134
ISCJB I 25 04 28 30.9–.42 17.50N–.05 94.50W–.04 159–4 3.7b **¶16021069**
IDC I 25 04 28 30.2–1.1 17.39N 94.07W 150–11 3.8,3.6
NEIC I 25 04 28 34.7 17.45N 94.54W 145 4.4,4.2b
MEX I 25 04 28 34.7–.67 17.45N 94.54W 145–9 4.4,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.9km az=28.4.
IDC Error ellipse: s-maj=33.8km s-min=24.3km az=51.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=6.1km s-min=4.2km az=-1.0.
MEX I 30 01 54 50.4–.65 17.52N 94.58W 156–12 3.8 ¶601136905

MEX Error ellipse: s-maj=8.5km s-min=3.8km az=-1.0.
MEX II 01 15 17 39.3–.61 17.01N 94.51W 145–12 3.9 ¶601136912

MEX Error ellipse: s-maj=7.9km s-min=3.3km az=-1.0.
MEX II 02 14 13 55.6–.31 17.27N 94.69W 134–9 3.9 ¶601136918

MEX Error ellipse: s-maj=23.1km s-min=7.4km az=-1.0.
MEX II 03 15 37 16.7–.65 16.42N 93.84W 123–14 4.0
NEIC II 03 15 37 16.7 16.42N 93.84W 123 4.0 **¶16339704**
MEX Error ellipse: s-maj=6.8km s-min=6.8km az=-1.0.
NEIC Event type se. After MEX.
MEX II 04 20 39 34.6–.31 17.35N 94.73W 140–13 3.7 ¶601136934

MEX Error ellipse: s-maj=9.6km s-min=3.1km az=-1.0.
MEX II 09 15 49 14.0–.52 16.13N 93.64W 98–7 4.1 ¶601136970

MEX Error ellipse: s-maj=9.1km s-min=8.6km az=-1.0.
MEX II 10 05 10 36.8–.33 16.09N 93.94W 100–5 3.9 ¶601136976

MEX Error ellipse: s-maj=2.8km s-min=2.1km az=-1.0.
MEX II 11 12 44 46.2–.47 17.98N 94.68W 156–28 4.0 ¶601136988

MEX Error ellipse: s-maj=23.7km s-min=3.8km az=-1.0.
MEX II 17 04 49 50.7–.87 17.25N 94.79W 98–38 4.0
NEIC II 17 04 49 50.7 17.25N 94.79W 98 4.0 **¶16314214**
MEX Error ellipse: s-maj=13.7km s-min=6.6km az=-1.0.
NEIC Event type se. After MEX.
MEX II 21 22 45 46.5–.48 17.86N 94.79W 155–11 4.0
NEIC II 21 22 45 46.5 17.86N 94.79W 155 4.0 **¶16414873**
MEX Error ellipse: s-maj=7.5km s-min=2.5km az=-1.0.
NEIC Event type se. After MEX.
MEX II 26 19 56 02.0–.63 17.40N 94.39W 176–11 4.0
NEIC II 26 19 56 02.0 17.40N 94.39W 176 4.0 **¶16399010**
MEX Error ellipse: s-maj=9.7km s-min=4.0km az=-1.0.
NEIC Event type se. After MEX.
MEX III 01 18 11 06.5–.80 16.26N 93.33W 160–8 3.9 ¶601137149

MEX Error ellipse: s-maj=6.5km s-min=6.0km az=-1.0.
MEX III 02 18 17 54.3–1.3 17.03N 94.59W 125–19 4.0 ¶601137158

MEX Error ellipse: s-maj=9.8km s-min=4.6km az=-1.0.
MEX III 05 12 25 38.4–.29 17.32N 94.26W 166–6 4.1
NEIC III 05 12 25 38.4 17.32N 94.26W 166 4.1 **¶16445692**
MEX Error ellipse: s-maj=4.6km s-min=2.2km az=-1.0.
NEIC Event type se. After MEX.
MEX III 07 07 50 09.7–1.3 17.28N 94.91W 138–12 4.1
NEIC III 07 07 50 09.7 17.28N 94.91W 138 4.1,3.7b **¶16442198**
MEX Error ellipse: s-maj=16.4km s-min=8.7km az=-1.0.
NEIC Event type se. After MEX.
MEX III 14 11 30 11.2–.80 16.72N 94.00W 141–10 3.9 ¶601137251

MEX Error ellipse: s-maj=7.2km s-min=3.7km az=-1.0.
MEX III 18 11 14 11.3–.75 17.05N 93.26W 5 4.0 ¶601137290

MEX Error ellipse: s-maj=5.7km s-min=4.0km az=-1.0.
MEX III 22 01 37 42.1–.76 17.26N 94.51W 168–8 3.8 ¶601137317

MEX Error ellipse: s-maj=11.5km s-min=6.5km az=-1.0.
MEX III 28 19 31 11.4–.59 17.00N 93.53W 122–16 3.8 ¶601137387

MEX Error ellipse: s-maj=13.8km s-min=10.7km az=-1.0.
MEX III 31 06 33 12.0–.75 16.82N 93.96W 149–10 3.6 ¶601137426

MEX Error ellipse: s-maj=6.4km s-min=3.9km az=-1.0.
MEX IV 03 07 21 12.1–.42 16.18N 92.88W 192–6 3.9 ¶602595849

MEX Error ellipse: s-maj=5.1km s-min=9.5km az=-1.0.
MEX IV 04 00 45 09.0–.45 17.52N 93.66W 20–24 4.0
NEIC IV 04 00 45 06.9 17.60N 93.62W 112 4.0 **¶16577646**
MEX Error ellipse: s-maj=6.7km s-min=5.4km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 04 20 27 03.7–.72 17.42N 94.80W 132–20 4.1
NEIC IV 04 20 27 03.3 17.43N 94.78W 139 4.1 **¶16577661**
MEX Error ellipse: s-maj=11.6km s-min=4.9km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 06 18 40 15.1–.61 17.47N 94.51W 144–9 4.0
NEIC IV 06 18 40 14.4 17.48N 94.50W 152 4.0 **¶16577700**
MEX Error ellipse: s-maj=7.0km s-min=3.4km az=-1.0.
NEIC Event type se. After MEX.
ISC IV 07 07 19 51.5–1.1 17.41N–.08 94.57W–.04 159–15 34 2-19
ISCJB IV 07 07 19 50.2–.63 17.44N–.08 94.55W–.04 169–10 **¶16577715**
NEIC IV 07 07 19 53.4 17.55N 94.52W 152 4.0,3.7b
MEX IV 07 07 19 53.4–.63 17.55N 94.52W 152–15 4.0,3.7b

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=5.5km az=3.5.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=12.4km s-min=4.2km az=-1.0.

ISC	**IV**	**07 13 11 23.4–.28**	**17.27N–.03**	**94.14W–.03**	**165–2**	**6.0b**	**2141**	**1-159**
IDC	IV	07 13 11 18.9–2.2	17.41N	93.95W	121–19	5.9,5.8		**¶602546058**
MOS	IV	07 13 11 19.5–1.1	17.38N	93.93W	131	6.1b,6.0s		
GCMT	IV	07 13 11 22.4–.10	17.28N	94.12W	154–0	6.7W,6.0s		
MEX	IV	07 13 11 22.0–2.3	17.22N	94.32W	171–24	6.7,6.0s		
NEIC	IV	07 13 11 22.4	17.21N	94.34W	166	6.7,6.6W		
ISCJB	IV	07 13 11 22.7–.18	17.43N–.01	94.06W–.01	163–1	6.0b,6.6W		
BJI	IV	07 13 11 23.0	17.45N	93.90W	160	6.0b,6.6W		
NEIC	IV	07 13 11 24.0–.00	17.43N	93.78W	167	6.0b,6.6W		
CASC	IV	07 13 11 25.5–3.3	17.05N	93.89W	20–277	6.5b,5.6		

ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=7.0km az=56.0.
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=91.6.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c376; s139,c647;Duration: 5s5 Moment tensor: Scale 10^{19} Nm; M_{rr}-0.56±.01 $M_{\theta\theta}$-0.29±.01; $M_{\phi\phi}$0.85±.01; $M_{r\theta}$0.91±.01; $M_{\theta\phi}$-0.57±.01; $M_{\theta r}$-0.62±.01; Best double couple: NP1:ϕ_s307.00000°,δ76.00000°,λ-119.00000°. NP2:ϕ_s194.00000°,δ32.00000°,λ-27.00000°. Principal axes: T 1.5350,Plg26.0000°,Azm60.0000° ; N -0.1810,Plg28.0000°,Azm315.0000°; P -1.3540,Plg50.0000°,Azm185.0000° $M_0$1.44400×10^{19}
MEX Error ellipse: s-maj=14.7km s-min=13.6km az=-1.0.
NEIC Event type fe. Felt [V] at Cordoba and Tuxtla Gutierrez; [IV] at Coatzacoalcos, Huatulco, Jalapa, Minatitlan and Tehuacan; [III] at Coatepec, Oaxaca, Puebla, Puerto Escondido, San Cristobal de Las Casas and Villahermosa; [II] at Boca del Rio, Cuernavaca and Mexico. Felt [II] at Antigua Guatemala, Guatemala and Quetzaltenango, Guatemala. Felt widely in southern Mexico and in western Guatemala. Depth from broadband displacement seismograms. Energy computed from BB mechanism. After MEX. Moment Tensor Solution. $M_0$1.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000° ,δ77.00000°,λ-110.00000°. NP2:ϕ_s189.00000°,δ24.00000°,λ-35.00000°. Principal axes: T 1.1400,Plg29.0000°,Azm58.0000°; N -0.0400,Plg19.0000°,Azm317.0000° ; P -1.1000,Plg54.0000°,Azm197.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ10.00000°,λ-90.00000°. NP2: ϕ_s310.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm40.0000° ; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm220.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.5km az=139.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ76.00000° ,λ-113.00000°. NP2:ϕ_s183.00000°,δ27.00000°,λ-31.00000°. Principal axes: T 1.1700,Plg27.0000°,Azm50.0000°; N -0.0700,Plg23.0000°,Azm307.0000° ; P -1.1000,Plg52.0000°,Azm182.0000°
CASC Error ellipse: s-maj=27.8km s-min=219.7km az=-1.0.

MEX	**IV**	**07 17 45 41.9–.39**	**17.48N**	**94.06W**	**128–15**	**3.7**	
							¶602595993

MEX Error ellipse: s-maj=14.1km s-min=4.9km az=-1.0.

MEX	**IV**	**08 10 57 50.3–.39**	**17.34N**	**94.39W**	**146–7**	**3.6**	
							¶602596009

MEX Error ellipse: s-maj=5.5km s-min=2.4km az=-1.0.

ISC	**IV**	**09 13 40 01.8–.57**	**17.03N–.04**	**94.13W–.03**	**162–5**	**4.0b**	**99**	**1-135**
ISCJB	IV	09 13 40 00.6–.31	17.08N–.04	94.12W–.03	167–3	3.9b		**¶16506262**
IDC	IV	09 13 40 03.5–3.1	17.20N	93.87W	170–26	4.1,3.8		
MEX	IV	09 13 40 04.1–.80	17.05N	94.15W	155–9	4.6,3.8		
NEIC	IV	09 13 40 04.1	17.05N	94.15W	155	4.6,4.6b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=28.4.
IDC Error ellipse: s-maj=30.3km s-min=13.2km az=66.0.
MEX Error ellipse: s-maj=4.8km s-min=4.5km az=-1.0.
NEIC Event type se. After MEX.

MEX	**IV**	**09 22 00 07.0–.53**	**17.08N**	**94.16W**	**148–16**	**3.6**	
							¶602596046

MEX Error ellipse: s-maj=11.4km s-min=6.3km az=-1.0.

MEX	**IV**	**09 22 40 41.4–.68**	**17.08N**	**94.18W**	**153–14**	**3.5**	
							¶602596048

MEX Error ellipse: s-maj=11.0km s-min=5.4km az=-1.0.

MEX	**IV**	**10 06 08 09.0–.67**	**17.10N**	**94.24W**	**140–19**	**3.6**	
							¶602596058

MEX Error ellipse: s-maj=8.8km s-min=8.9km az=-1.0.

MEX	**IV**	**13 13 26 58.4–.47**	**17.06N**	**94.30W**	**124–17**	**3.7**	
							¶602596148

MEX Error ellipse: s-maj=11.0km s-min=6.2km az=-1.0.

MEX	**IV**	**16 02 16 27.8–.55**	**17.03N**	**94.32W**	**128–25**	**3.7**	
							¶602596245

MEX Error ellipse: s-maj=14.4km s-min=8.9km az=-1.0.

MEX	**IV**	**16 09 19 36.4–.34**	**17.18N**	**94.24W**	**57–29**	**3.7**	
							¶602596250

MEX Error ellipse: s-maj=20.8km s-min=16.1km az=-1.0.

ISC	**IV**	**18 00 46 54.8–.50**	**17.65N–.03**	**94.98W–.03**	**139–4**	**4.4b**	**571**	**1-128**
ISCJB	IV	18 00 46 53.4–.19	17.64N–.02	94.91W–.02	140–2	4.4b		**¶16498609**
IDC	IV	18 00 46 53.5–.55	17.80N	94.53W	117–11	4.3,4.1		
BJI	IV	18 00 46 55.2	17.80N	94.80W	150	4.9b,4.1		
MEX	IV	18 00 46 55.7–.58	17.65N	94.99W	136–7	4.4,4.1		
NEIC	IV	18 00 46 55.7	17.65N	94.99W	136	4.4,4.4b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=1.0.
IDC Error ellipse: s-maj=27.9km s-min=14.3km az=55.0.
MEX Error ellipse: s-maj=6.8km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt at Oaxaca. After MEX.

MEX	**IV**	**19 02 06 31.2–.60**	**16.52N**	**92.85W**	**12–999**	**3.8**	
							¶602596346

MEX Error ellipse: s-maj=999.9km s-min=10.8km az=-1.0.

MEX	**IV**	**19 06 27 26.7–.57**	**16.27N**	**92.35W**	**45**	**3.7**	
							¶602596349

MEX Error ellipse: s-maj=10.5km s-min=24.4km az=-1.0.

MEX	**IV**	**25 11 44 56.8–1.4**	**17.23N**	**94.86W**	**143–33**	**3.7**	
							¶602596548

MEX Error ellipse: s-maj=32.2km s-min=6.9km az=-1.0.

MEX	**IV**	**27 05 09 42.1–.53**	**17.05N**	**94.13W**	**144–12**	**3.6**	
							¶602596615

MEX Error ellipse: s-maj=7.7km s-min=3.8km az=-1.0.

MEX	**IV**	**30 11 17 25.9–.91**	**17.24N**	**94.69W**	**125–24**	**4.2**	
NEIC	IV	30 11 17 25.9	17.24N	94.69W	125	4.2	**¶16587549**

MEX Error ellipse: s-maj=10.2km s-min=5.9km az=-1.0.
NEIC Event type se. After MEX.

MEX	**IV**	**30 22 50 38.4–.59**	**16.59N**	**93.67W**	**146–10**	**3.9**	
							¶602596725

MEX Error ellipse: s-maj=9.0km s-min=15.9km az=-1.0.

MEX	**V**	**03 19 34 41.7–.31**	**16.58N**	**93.33W**	**19–205**	**3.6**	
							¶602597600

MEX Error ellipse: s-maj=6.3km s-min=4.8km az=-1.0.

MEX	**V**	**08 08 23 04.0–.60**	**17.72N**	**94.56W**	**151–7**	**4.0**	
NEIC	V	08 08 23 04.0	17.72N	94.56W	151	4.0	**¶16717010**

MEX Error ellipse: s-maj=6.0km s-min=4.5km az=-1.0.
NEIC Event type se. After MEX.

MEX	**V**	**08 21 20 06.4–.48**	**17.18N**	**93.80W**	**91–21**	**3.7**	
							¶602597657

MEX Error ellipse: s-maj=8.4km s-min=3.8km az=-1.0.

MEX	**V**	**09 17 22 54.5–.60**	**17.47N**	**94.80W**	**138–13**	**3.7**	
							¶602597666

MEX Error ellipse: s-maj=8.7km s-min=3.2km az=-1.0.

MEX	**V**	**10 10 13 40.3–1.0**	**17.17N**	**94.96W**	**145–21**	**3.6**	
							¶602597678

MEX Error ellipse: s-maj=12.4km s-min=4.6km az=-1.0.

MEX	**V**	**13 20 12 26.6–.66**	**17.23N**	**92.10W**	**5–6**	**3.6**	
							¶602597720

MEX Error ellipse: s-maj=2.7km s-min=3.9km az=-1.0.

ISC	**V**	**16 20 35 11.5–.94**	**17.01N–.07**	**94.87W–.05**	**116**		**44**	**2-19**
NEIC	V	16 20 35 09.1	17.06N	94.78W	168	4.3		**¶16722566**
MEX	V	16 20 35 09.1–.87	17.06N	94.78W	168–14	4.3		
ISCJB	V	16 20 35 10.8–.52	16.96N–.05	94.93W–.04	116	4.3		

ISC Event type se.
NEIC Event type se. After MEX.
ISCJB Event type se.

MEX	**V**	**24 05 45 14.1–.72**	**17.13N**	**94.73W**	**119–14**	**3.8**	
							¶602597839

MEX Error ellipse: s-maj=7.8km s-min=3.1km az=-1.0.

MEX	**V**	**27 13 46 17.8–.77**	**17.34N**	**94.45W**	**208–21**	**4.1**	
NEIC	V	27 13 46 17.8	17.34N	94.45W	208	4.1	**¶602597867**

MEX Error ellipse: s-maj=18.9km s-min=8.2km az=-1.0.
NEIC Event type se. After MEX.

MEX	**V**	**29 21 10 55.1–.85**	**16.11N**	**92.93W**	**218–9**	**3.7**	
							¶602597883

MEX Error ellipse: s-maj=10.9km s-min=11.6km az=-1.0.

MEX	**VI**	**02 02 39 57.6–.49**	**16.26N**	**92.19W**	**70–167**	**3.9**	
							¶602597905

MEX Error ellipse: s-maj=79.3km s-min=44.5km az=-1.0.

MEX	**VI**	**02 21 29 03.0–.50**	**16.49N**	**93.79W**	**88–75**	**4.1**	
							¶602597912

MEX Error ellipse: s-maj=115.9km s-min=70.5km az=-1.0.

MEX	**VI**	**02 21 55 36.8–1.1**	**16.72N**	**93.72W**	**60–521**	**4.2**	
							¶602597913

MEX Error ellipse: s-maj=306.3km s-min=196.7km az=-1.0.

ISC	**VI**	**05 03 02 05.3–.73**	**17.09N–.06**	**94.12W–.04**	**151–6**	**3.7b**	**32**	**1-134**
ISCJB	VI	05 03 02 04.6–.41	17.05N–.06	94.16W–.04	153–4	3.7b		**¶16722608**
IDC	VI	05 03 02 05.0–.64	17.18N	93.97W	140–6	4.0,3.8		
MEX	VI	05 03 02 08.2–.95	17.03N	94.20W	142–13	4.7,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.9km az=13.4.
IDC Error ellipse: s-maj=17.5km s-min=15.2km az=6.0.
MEX Error ellipse: s-maj=5.2km s-min=5.0km az=-1.0.

MEX	**VI**	**11 11 09 27.7–.85**	**17.29N**	**94.67W**	**154–7**	**4.2**	
NEIC	VI	11 11 09 27.7	17.29N	94.67W	154	4.2	**¶602598028**

MEX Error ellipse: s-maj=10.5km s-min=6.3km az=-1.0.
NEIC Event type se. After MEX.

MEX	**VI**	**15 05 40 23.7–.70**	**17.37N**	**94.37W**	**24–999**	**3.9**	
							¶602598070

MEX Error ellipse: s-maj=112.1km s-min=255.2km az=-1.0.

MEX	**VI**	**20 11 28 12.2–.82**	**16.56N**	**93.52W**	**164–14**	**4.2**	
NEIC	VI	20 11 28 12.2	16.56N	93.52W	164	4.2	**¶602598120**

MEX Error ellipse: s-maj=11.5km s-min=6.2km az=-1.0.
NEIC Event type se. After MEX.

ISC	**VI**	**24 16 15 50.0–.91**	**16.0N–.10**	**93.09W–.05**	**200**	**3.3b**	**25**	**0-61**
IDC	VI	24 16 15 48.5–4.4	16.36N	92.81W	167–54	3.7,3.5		**¶16731385**
ISCJB	VI	24 16 15 49.3–.61	16.1N–.10	93.09W–.06	200	3.3b,3.5		
MEX	VI	24 16 15 51.4–.87	16.18N	93.09W	195–10	4.2,3.5		
NEIC	VI	24 16 15 51.4	16.18N	93.09W	195	4.2,3.5		

ISC Event type se.
IDC Error ellipse: s-maj=116.0km s-min=21.3km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=7.0km az=10.9.
MEX Error ellipse: s-maj=16.7km s-min=8.7km az=-1.0.
NEIC Event type se. After MEX.

ISC	**VI**	**25 15 14 23.3–.84**	**17.26N–.05**	**94.88W–.03**	**131–8**		**46**	**0-59**
ISCJB	VI	25 15 14 22.6–.48	17.28N–.06	94.90W–.03	137–5	3.2b		**¶16731445**
IDC	VI	25 15 14 23.9–1.4	17.50N	94.77W	117–27	3.6,3.4		
NEIC	VI	25 15 14 26.8	17.25N	94.93W	118	4.0,3.4		
MEX	VI	25 15 14 26.8–1.4	17.25N	94.93W	118–36	4.0,3.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=4.9km az=0.7.
IDC Error ellipse: s-maj=74.5km s-min=18.9km az=161.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=18.6km s-min=10.6km az=-1.0.

(62) Mexico-Guatemala border region.

MEX	**I**	**03 14 12 24.8–.48**	**15.79N**	**92.54W**	**180–7**	**3.5**	
							¶601136702

MEX Error ellipse: s-maj=7.1km s-min=7.6km az=-1.0.

MEX	**I**	**04 09 49 27.5–.51**	**15.52N**	**92.37W**	**172–6**	**3.5**	
							¶601136713

MEX Error ellipse: s-maj=6.5km s-min=7.8km az=-1.0.

MEX	**I**	**18 19 51 56.1–.94**	**15.05N**	**92.96W**	**72–68**	**3.6**	
							¶601136804

MEX Error ellipse: s-maj=73.6km s-min=43.0km az=-1.0.

MEX	**I**	**21 02 09 53.5–.47**	**15.61N**	**92.81W**	**107–8**	**3.6**	
							¶601136823

MEX Error ellipse: s-maj=42.9km s-min=25.4km az=-1.0.

MEX	**I**	**21 20 20 11.2–.40**	**15.23N**	**92.14W**	**167–4**	**4.0**	
							¶601136833

MEX Error ellipse: s-maj=6.5km s-min=7.7km az=-1.0.

MEX	**I**	**27 03 47 48.2–.46**	**15.61N**	**92.74W**	**148–5**	**4.1**	
							¶601136885

MEX Error ellipse: s-maj=4.8km s-min=3.9km az=-1.0.

MEX	**II**	**03 23 35 50.8–.52**	**15.06N**	**92.70W**	**80–14**	**3.8**	
							¶601136928

MEX Error ellipse: s-maj=9.6km s-min=7.7km az=-1.0.

MEX	**II**	**16 17 05 31.0–.41**	**15.05N**	**92.77W**	**65–7**	**3.9**	
							¶601137033

MEX Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.

MEX	**II**	**25 21 01 22.0–.60**	**15.75N**	**92.66W**	**177–5**	**3.8**	
							¶601137117

MEX Error ellipse: s-maj=4.1km s-min=5.4km az=-1.0.

ISC	**III**	**02 00 59 53.1–.40**	**16.11N–.04**	**91.47W–.03**	**21–3**	**4.5b,3.8s**	**268**	**1-144**
IDC	III	02 00 59 46.5–1.0	15.81N	91.33W	0	4.1,4.0		**¶16173032**
MEX	III	02 00 59 52.7–.58	16.04N	91.36W	34–25	4.6,4.0		
NEIC	III	02 00 59 52.0	16.06N	91.38W	20	4.5b,4.2		
ISCJB	III	02 00 59 54.5–.77	16.24N–.03	91.56W–.03	33–6	4.4b,3.9s		
BJI	III	02 00 59 57.0	16.30N	91.10W	24	4.4b,3.9s		
CASC	III	02 00 59 58.6–.98	15.11N	92.41W	35–999	4.6,4.5b		

ISC Event type fe.
IDC Error ellipse: s-maj=21.6km s-min=14.5km az=23.0.
MEX Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0.
NEIC Event type fe. Felt at Coban and San Cristobal Verapaz. After MEX.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.1km az=163.7.
CASC Error ellipse: s-maj=297.8km s-min=939.7km az=-1.0.

MEX	**III**	**02 18 27 12.4–.83**	**16.11N**	**91.28W**	**11–17**	**3.9**	
							¶601137159

MEX Error ellipse: s-maj=6.1km s-min=15.9km az=-1.0.

MEX	**III**	**08 08 55 46.0–.64**	**15.19N**	**92.88W**	**102–8**	**4.0**	
							¶601137198

MEX Error ellipse: s-maj=11.4km s-min=8.3km az=-1.0.

MEX	**III**	**09 13 08 33.1–.64**	**17.30N**	**91.10W**	**94–16**	**4.3**	
NEIC	III	09 13 08 33.1	17.30N	91.10W	94	4.3	**¶16451958**

MEX Error ellipse: s-maj=3.6km s-min=7.5km az=-1.0.
NEIC Event type se. After MEX.

MEX	**III**	**09 22 56 08.1–.73**	**15.33N**	**92.96W**	**98–8**	**4.9**	
							¶601137211

MEX Error ellipse: s-maj=7.8km s-min=8.8km az=-1.0.

MEX	**III**	**10 17 03 12.9–.67**	**15.23N**	**91.79W**	**182–7**	**4.1**	
NEIC	III	10 17 03 13.0–3.9	15.37N	91.97W	189–23	4.1	**¶16484739**

MEX Error ellipse: s-maj=6.8km s-min=8.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=76.7km s-min=16.1km az=155.0.

MEX	**III**	**14 09 05 25.1–.32**	**15.46N**	**92.16W**	**228–4**	**4.0**	
NEIC	III	14 09 05 25.1	15.46N	92.16W	228	4.0	**¶16509582**

MEX Error ellipse: s-maj=5.9km s-min=5.1km az=-1.0.
NEIC Event type se. After MEX.

MEX	**III**	**21 08 23 13.4–.84**	**16.76N**	**91.50W**	**106–32**	**4.0**	
							¶601137315

MEX Error ellipse: s-maj=17.4km s-min=30.3km az=-1.0.

MEX	**IV**	**09 04 38 58.0–.80**	**16.59N**	**91.05W**	**20–25**	**4.1**	
							¶602596040

MEX Error ellipse: s-maj=18.8km s-min=28.5km az=-1.0.

MEX	**IV**	**14 14 32 25.1–.47**	**16.19N**	**91.27W**	**40**	**3.7**	

MEX Error ellipse: s-maj=3.5km s-min=5.7km az=-1.0.
MEX IV 15 03 52 19.8–.75 15.19N 91.97W 161–8 3.7

¶602596184

MEX Error ellipse: s-maj=9.4km s-min=9.8km az=-1.0.
MEX IV 15 10 43 09.1–.51 15.19N 92.92W 64–10 3.5

¶602596198

MEX Error ellipse: s-maj=7.3km s-min=5.1km az=-1.0.
MEX IV 16 03 53 23.6–.37 15.01N 91.24W 15–999 3.5

¶602596201

MEX Error ellipse: s-maj=672.1km s-min=999.9km az=-1.0.
MEX IV 17 01 56 09.5–.51 16.01N 90.70W 36–61 4.0

¶602596246

MEX Error ellipse: s-maj=6.8km s-min=11.1km az=-1.0.
MEX IV 19 23 18 16.9–.39 15.00N 92.79W 89–7 3.8

¶602596283

MEX Error ellipse: s-maj=9.6km s-min=6.2km az=-1.0.
MEX IV 20 01 46 33.5–.73 15.10N 92.97W 91–10 3.9

¶602596357

MEX Error ellipse: s-maj=11.4km s-min=8.7km az=-1.0.
MEX IV 20 03 05 46.8–.63 15.54N 92.98W 20–182 3.5

¶602596373

MEX Error ellipse: s-maj=153.8km s-min=88.9km az=-1.0.
MEX IV 20 23 23 35.2–.34 15.05N 92.73W 102–4 3.6

¶602596374

MEX Error ellipse: s-maj=5.7km s-min=4.0km az=-1.0.
MEX IV 24 02 16 06.3–.53 15.12N 91.51W 56–36 3.8

¶602596390

MEX Error ellipse: s-maj=24.4km s-min=28.1km az=-1.0.
ISC IV 26 21 25 51.3–.46 15.90N–.05 92.68W–.04 193–3 4.4b 344 1-144
ISCJB IV 26 21 25 50.7–.25 16.00N–.03 92.57W–.03 197–2 4.4b ¶16681487
IDC IV 26 21 25 52.3–.80 16.13N 92.28W 194–6 4.6,4.5
MEX IV 26 21 25 53.3–.35 15.87N 92.73W 194–5 5.2,4.5
NEIC IV 26 21 25 53.3 15.87N 92.73W 194 5.2,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=41.9.
IDC Error ellipse: s-maj=22.5km s-min=8.4km az=50.0.
MEX Error ellipse: s-maj=3.7km s-min=5.2km az=-1.0.
NEIC Event type se. After MEX.
MEX V 01 20 08 32.1–.60 15.03N 92.76W 91–7 3.6

¶602596521

MEX Error ellipse: s-maj=5.6km s-min=7.1km az=-1.0.
MEX V 03 11 45 53.3–.61 15.02N 91.72W 106–12 3.9

¶602597583

MEX Error ellipse: s-maj=8.3km s-min=19.2km az=-1.0.
MEX V 03 14 05 27.1–.37 15.77N 92.66W 92–5 3.6

¶602597596

MEX Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
ISC V 16 05 51 02.4–.51 15.90N–.05 92.76W–.04 189–4 4.3b 430 0-131
ISCJB V 16 05 51 01.8–.24 15.97N–.03 92.67W–.03 192–2 4.3b ¶16524516
IDC V 16 05 51 03.3–.80 16.22N 92.02W 183–7 4.4,4.1
MEX V 16 05 51 03.4–.38 15.95N 92.86W 190–4 4.3,4.1
NEIC V 16 05 51 03.2–.34 15.89N 92.66W 182 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.1km az=139.6.
IDC Error ellipse: s-maj=43.4km s-min=9.3km az=60.0.
MEX Error ellipse: s-maj=7.5km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.9km az=216.0.
ISC V 16 08 54 17.4–2.0 15.0N–.20 91.1W–.10 10 3.7b 11 1-94
MEX V 16 08 54 19.3–.42 13.78N 91.62W 15 4.0 ¶602597762
IDC V 16 08 54 23.3–6.6 16.04N 91.28W 0 4.3,4.3s
ISC Event type ke.
MEX Error ellipse: s-maj=9.4km s-min=10.0km az=-1.0.
IDC Error ellipse: s-maj=129.6km s-min=21.8km az=178.0.
MEX V 18 23 59 24.7–.59 15.35N 91.91W 205–6 3.7

¶602597790

MEX Error ellipse: s-maj=7.7km s-min=9.2km az=-1.0.
MEX V 24 11 56 17.3–.67 15.01N 92.04W 88–5 3.6

¶602597842

MEX Error ellipse: s-maj=12.9km s-min=10.2km az=-1.0.
MEX V 26 06 34 19.6–.68 16.04N 91.29W 7–10 3.9

¶602597857

MEX Error ellipse: s-maj=3.8km s-min=9.1km az=-1.0.
MEX V 29 02 07 10.4–.91 15.40N 92.88W 106–13 3.7

¶602597876

MEX Error ellipse: s-maj=12.9km s-min=11.2km az=-1.0.
ISC V 30 16 15 22.4–1.9 15.1N–.20 91.5W–.20 167 3.7b 14 6-145
IDC V 30 16 15 19.2–6.3 14.91N 91.61W 140–44 3.9,3.7 ¶17204768
ISCJB V 30 16 15 20.6–4.7 15.0N–.60 91.6W–.20 167 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 30 17 42 05.4–12 15.15N 91.70W 152–75 3.5,3.3

¶17204773

IDC Error ellipse: s-maj=133.9km s-min=44.0km az=16.0.
ISC V 31 00 09 02.7–3.1 15.1N–.30 92.7W–.10 100 3.3b 8 1-62
MEX V 31 00 08 53.0–.59 14.35N 92.75W 20–208 4.1 ¶17204797
IDC V 31 00 08 60.0–9.6 14.46N 91.91W 121–60 3.6,3.5
ISC Event type ke.
MEX Error ellipse: s-maj=15.7km s-min=11.2km az=-1.0.
IDC Error ellipse: s-maj=106.7km s-min=54.3km az=155.0.
MEX VI 06 03 59 36.1–.38 15.13N 92.03W 210–5 3.9

¶602597949

MEX Error ellipse: s-maj=45.9km s-min=26.6km az=-1.0.
MEX VI 06 07 14 47.8–.52 15.08N 92.86W 96–21 3.7

¶602597950

MEX Error ellipse: s-maj=40.5km s-min=24.3km az=-1.0.
MEX VI 08 19 12 09.8–.70 15.01N 92.53W 104–6 4.2

¶602597981

MEX Error ellipse: s-maj=5.4km s-min=5.0km az=-1.0.
MEX VI 10 00 59 53.5–.73 15.76N 92.61W 174–7 3.5

¶602598005

MEX Error ellipse: s-maj=8.9km s-min=7.7km az=-1.0.
MEX VI 10 11 30 25.5–.60 15.51N 91.34W 16–72 3.9

¶602598013

MEX Error ellipse: s-maj=13.7km s-min=69.0km az=-1.0.
MEX VI 16 21 59 24.2–.84 15.77N 92.60W 79–12 3.6

¶602598078

MEX Error ellipse: s-maj=5.5km s-min=6.5km az=-1.0.
MEX VI 18 00 09 30.3–.85 15.91N 91.10W 20 3.9

¶602598097

MEX Error ellipse: s-maj=23.9km s-min=17.5km az=-1.0.
MEX VI 20 03 08 22.0–.32 15.08N 92.85W 27–20 3.6

¶602598119

MEX Error ellipse: s-maj=5.3km s-min=3.1km az=-1.0.
MEX VI 22 15 31 12.4–.53 15.14N 91.87W 172–7 4.0

¶602598137

MEX Error ellipse: s-maj=6.9km s-min=8.6km az=-1.0.
MEX VI 27 03 44 45.4–.36 15.04N 92.83W 112–5 3.6

¶602598179

MEX Error ellipse: s-maj=7.0km s-min=5.3km az=-1.0.
MEX VI 27 10 23 40.0–.42 15.79N 92.77W 174–6 4.0

¶602598184

MEX Error ellipse: s-maj=5.3km s-min=5.6km az=-1.0.
MEX VI 30 13 13 21.6–.52 15.10N 91.85W 21–22 3.6

¶602598216

MEX Error ellipse: s-maj=9.3km s-min=8.6km az=-1.0.

(64) Off coast of Michoacan.

IDC I 19 22 11 50.7–2.5 15.02N 104.69W 0 3.8,3.6

¶17190581

IDC Error ellipse: s-maj=113.8km s-min=25.8km az=63.0.

ISC I 20 00 24 49.8–1.1 15.48N–.09 104.3W–.10 35 3.8s,3.7b 31 3-124
IDC I 20 00 24 43.9–1.3 15.19N 104.58W 0 4.1,4.0 ¶15968932
NEIC I 20 00 24 45.6 15.39N 104.40W 1 4.3,4.0
MEX I 20 00 24 45.6–.58 15.39N 104.40W 1–55 4.3,4.0
ISCJB I 20 00 24 47.8–.80 15.49N–.06 104.27W–.07 33 3.8s,3.7b
ISC Event type se.
NEIC Event type se. After MEX.
ISCJB Event type se.
ISC I 22 01 27 32.3–.67 15.60N–.07 104.26W–.05 10 5.2b,5.0s 592 3-171
IDC I 22 01 27 26.6–.81 15.22N 104.63W 0 5.0,5.0s ¶15954798
ISCJB I 22 01 27 27.9–.28 15.23N–.03 104.49W–.02 10 5.1b,5.0s
MOS I 22 01 27 27.8–.97 15.25N 104.51W 10 5.4b,4.9s
BJI I 22 01 27 28.6 15.20N 104.50W 10 5.6b,5.4s
NEIC I 22 01 27 29.3–.36 15.22N 104.47W 10 5.5,5.2b
GCMT I 22 01 27 29.3–.20 15.40N 104.69W 12 5.5W,5.2b
MEX I 22 01 27 35.1–.36 15.72N 104.15W 10–16 5.5,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=12.3km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=14.5.
MOS Error ellipse: s-maj=10.2km s-min=4.9km az=93.5.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.5km az=215.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c171; s114,c227; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.02 $M_{\theta\theta}$0.62±.02; $M_{\phi\phi}$-0.44±.03; $M_{r\theta}$0.27±.05; $M_{\theta\phi}$-1.71±.02; $M_{\phi r}$-0.02±.06; Best double couple: NP1:ϕ_s81.00000°,δ89.00000°,λ172.00000°. NP2:ϕ_s171.00000°,δ82.00000°,λ1.00000°. Principal axes: T 1.9000,Plg6.0000°,Azm36.0000°; N -0.1800,Plg82.0000°,Azm258.0000°; P -1.7200,Plg5.0000°,Azm127.0000° $M_0$1.81000×10^{17}
MEX Error ellipse: s-maj=12.8km s-min=9.2km az=-1.0.
IDC IV 29 01 25 03.9–5.6 16.41N 105.58W 0 3.8,3.7

¶17202337

IDC Error ellipse: s-maj=102.1km s-min=59.5km az=2.0.
ISC VI 11 18 51 59.5–1.1 15.5N–.10 104.9W–.10 35 4.3b,3.8s 85 5-96
IDC VI 11 18 51 53.4–2.1 15.47N 104.92W 0 4.2,3.8 ¶16591631
NEIC VI 11 18 51 56.4–.83 15.47N 104.78W 10 4.3b,3.8
ISCJB VI 11 18 51 58.5–.80 15.53N–.08 104.76W–.06 33 4.3b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(65) Off coast of Guerrero.

MEX I 05 18 16 12.2–.47 16.00N 98.14W 4–19 3.8

¶601136722

MEX Error ellipse: s-maj=13.7km s-min=3.3km az=-1.0.
MEX I 11 15 07 34.9–.38 15.96N 98.43W 16–13 4.4

¶601136772

MEX Error ellipse: s-maj=9.2km s-min=4.5km az=-1.0.
IDC I 20 00 43 28.9–9.4 15.01N 103.52W 0 3.8,3.6

¶17190587

IDC Error ellipse: s-maj=302.9km s-min=98.0km az=106.0.
IDC I 22 01 57 22.4–8.8 14.28N 103.53W 0 3.9,3.6

¶17190709

IDC Error ellipse: s-maj=160.9km s-min=109.7km az=126.0.
ISC II 16 17 23 25.4–2.3 15.46N–.08 98.52W–.04 7–12 4.5b,3.8s 98 1-87
IDC II 16 17 23 22.5–3.6 15.30N 97.89W 0 4.4,4.2L ¶16339751
ISCJB II 16 17 23 23.8–2.4 15.30N–.10 98.45W–.05 15–13 4.3b,3.8s
NEIC II 16 17 23 26.7 15.33N 98.56W 16 4.6b,4.2
MEX II 16 17 23 26.7–1.1 15.33N 98.56W 16–40 4.2,4.2
ISC Event type se.
IDC Error ellipse: s-maj=116.5km s-min=63.4km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=7.6km az=2.8.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=23.4km s-min=13.0km az=-1.0.
ISC II 27 10 47 17.8–3.5 15.93N–.07 98.21W–.04 15–22 3.5b 29 0-59
IDC II 27 10 47 14.8–4.3 15.74N 98.09W 0 3.8,3.6 ¶16310103
ISCJB II 27 10 47 17.6–1.4 15.93N–.07 98.19W–.04 24–8 3.5b,3.6
NEIC II 27 10 47 18.5 15.94N 98.23W 1 4.1,3.6
MEX II 27 10 47 18.5–.48 15.94N 98.23W 1–3 4.1,3.6
ISC Event type se.
IDC Error ellipse: s-maj=76.5km s-min=19.7km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=6.2km az=13.1.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=2.8km s-min=2.9km az=-1.0.
MEX III 02 12 46 09.6–.53 15.96N 98.18W 5 3.8

¶601137156

MEX Error ellipse: s-maj=4.1km s-min=4.7km az=-1.0.
MEX III 15 22 23 06.2–.38 15.89N 98.93W 13–17 3.8

¶601137263

MEX Error ellipse: s-maj=12.6km s-min=4.3km az=-1.0.
MEX III 26 12 31 33.4–.77 16.89N 102.25W 21–29 3.9

¶601137357

MEX Error ellipse: s-maj=7.8km s-min=3.5km az=-1.0.
MEX IV 17 07 06 30.2–.61 15.88N 98.87W 16–999 4.2
NEIC IV 17 07 06 30.2 15.88N 98.87W 16 4.2 ¶16577846
MEX Error ellipse: s-maj=5.8km s-min=4.2km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 20 21 46 06.5–.39 15.54N 98.26W 16–35 3.6

¶602596388

MEX Error ellipse: s-maj=26.7km s-min=21.5km az=-1.0.
ISC VI 10 19 41 15.0–1.4 15.98N–.05 98.60W–.03 5–8 4.6b,3.6s 405 1-99
IDC VI 10 19 41 12.1–3.2 15.59N 98.49W 0 4.4,4.2 ¶16591613
ISCJB VI 10 19 41 15.1–.33 16.08N–.03 98.40W–.02 10 4.5b,3.6s
MEX VI 10 19 41 17.3–1.1 15.94N 98.63W 10 4.6,3.6s
NEIC VI 10 19 41 19.7–1.1 16.13N 98.39W 25–7 4.6,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=63.2km s-min=18.6km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=16.3.
MEX Error ellipse: s-maj=9.9km s-min=4.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.2km az=195.0.
MEX VI 10 23 23 08.1–.87 15.99N 98.60W 20–12 3.8

¶602598020

MEX Error ellipse: s-maj=7.7km s-min=4.3km az=-1.0.
MEX VI 24 23 36 38.7–.70 15.32N 98.72W 19–16 4.2
NEIC VI 24 23 36 38.7 15.32N 98.72W 19 4.2 ¶16912424
MEX Error ellipse: s-maj=12.5km s-min=6.9km az=-1.0.
NEIC Event type se. After MEX.

(66) Near coast of Oaxaca.

MEX I 03 22 11 45.1–.33 15.98N 95.79W 9–6 3.8

¶601136705

MEX Error ellipse: s-maj=3.9km s-min=2.2km az=-1.0.
MEX I 07 12 25 37.4–.55 15.36N 94.94W 20–16 3.9

¶601136737

MEX Error ellipse: s-maj=10.6km s-min=4.7km az=-1.0.
MEX I 09 23 08 59.0–.30 15.88N 96.69W 5 3.7

¶601136761

MEX Error ellipse: s-maj=2.9km s-min=3.5km az=-1.0.
ISC I 11 10 28 57.9–.73 15.44N–.06 94.76W–.03 37 3.8b 43 1-118
ISCJB I 11 10 28 56.3–.58 15.40N–.06 94.76W–.03 37 3.8b ¶16151059
NEIC I 11 10 28 58.5 15.39N 94.75W 20 4.4,4.2b
MEX I 11 10 28 58.5–.70 15.39N 94.75W 20–35 4.4,4.2b
IDC I 11 10 28 59.8–2.7 15.78N 94.28W 42–21 3.9,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.1km az=2.8.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=7.4km s-min=3.8km az=-1.0.
IDC Error ellipse: s-maj=53.5km s-min=14.8km az=57.0.
MEX I 15 21 42 57.0–.53 15.56N 97.41W 16–9 4.0
NEIC I 15 21 42 57.0 15.56N 97.41W 16 4.0 ¶16057173
MEX Error ellipse: s-maj=7.2km s-min=3.4km az=-1.0.
NEIC Event type se. After MEX.

MEX I 18 17 28 42.4–.50 15.69N 96.44W 11–9 3.7 ¶601136801

MEX Error ellipse: s-maj=8.1km s-min=4.9km az=-1.0.
MEX I 23 11 40 12.1–.87 15.14N 95.89W 20–22 4.0 ¶601136846

MEX Error ellipse: s-maj=24.4km s-min=13.1km az=-1.0.
MEX I 25 09 06 13.2–.37 15.68N 94.21W 55–11 3.7 ¶601136871

MEX Error ellipse: s-maj=8.7km s-min=2.4km az=-1.0.
MEX I 29 14 01 17.8–.65 15.62N 96.79W 20–326 3.7 ¶601136901

MEX Error ellipse: s-maj=9.3km s-min=16.8km az=-1.0.
MEX I 30 01 34 57.1–.50 15.78N 95.73W 35–9 3.8 ¶601136904

MEX Error ellipse: s-maj=4.5km s-min=2.6km az=-1.0.
MEX II 03 12 45 59.3–.48 15.59N 96.15W 12–4 3.7 ¶601136926

MEX Error ellipse: s-maj=4.7km s-min=8.6km az=-1.0.
MEX II 05 02 26 49.1–.49 15.91N 97.39W 18–12 3.8 ¶601136936

MEX Error ellipse: s-maj=12.5km s-min=6.4km az=-1.0.
ISC II 11 13 20 42.7–.63 15.96N–.04 95.97W–.03 32–4 4.2b,3.6s 298 0-137
IDC II 11 13 20 38.8–1.0 16.08N 95.89W 0 4.1,3.9 ¶16022184
BJI II 11 13 20 40.9 15.80N 95.90W 25 4.3,3.9
ISCJB II 11 13 20 41.2–.55 16.02N–.04 95.89W–.02 29–5 4.1b,3.6s
NEIC II 11 13 20 43.6 15.98N 95.99W 34 4.4,4.4b
MEX II 11 13 20 43.6–.96 15.98N 95.99W 34–13 4.4,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=43.1km s-min=16.8km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.5km az=14.4.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=7.6km s-min=5.3km az=-1.0.
MEX II 11 15 58 43.0–.57 16.00N 96.01W 35 4.1 ¶601136989

MEX Error ellipse: s-maj=3.5km s-min=5.4km az=-1.0.
MEX II 12 01 37 28.9–.49 15.65N 94.03W 58–10 3.8 ¶601136993

MEX Error ellipse: s-maj=4.2km s-min=2.7km az=-1.0.
MEX II 17 23 07 51.7–1.2 15.97N 97.71W 49–56 3.6 ¶601137043

MEX Error ellipse: s-maj=29.8km s-min=15.1km az=-1.0.
MEX II 19 01 56 52.1–.44 15.96N 95.90W 40–10 4.0 ¶601137051

MEX Error ellipse: s-maj=6.5km s-min=10.2km az=-1.0.
MEX II 21 20 09 32.7–.32 15.34N 94.06W 17–999 3.8 ¶601137081

MEX Error ellipse: s-maj=58.7km s-min=29.9km az=-1.0.
MEX II 22 21 31 18.8–.96 15.28N 94.59W 16–11 3.5 ¶601137088

MEX Error ellipse: s-maj=8.2km s-min=4.5km az=-1.0.
MEX II 25 07 41 22.9–.72 15.89N 96.39W 16–12 4.1 ¶601137110

MEX Error ellipse: s-maj=6.9km s-min=5.6km az=-1.0.
MEX II 25 18 45 28.9–.52 15.55N 94.02W 65–39 3.5 ¶601137113

MEX Error ellipse: s-maj=34.0km s-min=15.4km az=-1.0.
MEX II 25 19 01 25.1–.41 15.92N 95.03W 17–71 3.8 ¶601137114

MEX Error ellipse: s-maj=4.1km s-min=1.7km az=-1.0.
MEX II 26 11 28 08.0–1.7 15.20N 96.10W 34–999 3.9 ¶601137126

MEX Error ellipse: s-maj=112.1km s-min=24.4km az=-1.0.
MEX II 26 14 08 38.2–.53 15.65N 95.61W 24–22 4.1
NEIC II 26 14 08 38.2 15.65N 95.61W 24 4.1 ¶16425212
MEX Error ellipse: s-maj=5.9km s-min=3.9km az=-1.0.
NEIC Event type se. After MEX.
MEX II 27 04 13 13.7–.45 15.16N 95.57W 18–18 4.1
NEIC II 27 04 13 13.7 15.16N 95.57W 18 4.1 ¶16310969
MEX Error ellipse: s-maj=5.8km s-min=3.2km az=-1.0.
NEIC Event type se. After MEX.
MEX II 27 04 31 59.3–.56 15.97N 94.24W 85–10 3.7 ¶601137136

MEX Error ellipse: s-maj=5.2km s-min=7.2km az=-1.0.
MEX II 27 12 11 08.2–.30 15.58N 96.18W 13–1 3.8 ¶601137138

MEX Error ellipse: s-maj=2.8km s-min=1.8km az=-1.0.
MEX II 27 16 14 28.6–.81 15.97N 97.45W 16–15 3.9 ¶601137139

MEX Error ellipse: s-maj=8.2km s-min=4.1km az=-1.0.
MEX II 27 22 35 45.4–.52 15.87N 96.62W 20–216 3.6 ¶601137141

MEX Error ellipse: s-maj=12.1km s-min=17.5km az=-1.0.
ISC II 28 21 11 25.8–.99 15.69N–.08 96.27W–.04 23–6 3.4b 23 0-60
IDC II 28 21 11 20.3–3.1 15.34N 95.98W 0 3.9L,3.8 ¶17193019
MEX II 28 21 11 26.8–.49 15.63N 96.27W 24–4 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=20.1km az=142.0.
MEX Error ellipse: s-maj=3.4km s-min=2.2km az=-1.0.
MEX III 03 22 02 40.0–.27 15.28N 95.52W 29–6 4.1 ¶601137164

MEX Error ellipse: s-maj=5.6km s-min=2.1km az=-1.0.
MEX III 04 11 37 09.7–.46 15.37N 94.27W 16–7 3.6 ¶601137168

MEX Error ellipse: s-maj=7.1km s-min=1.8km az=-1.0.
MEX III 06 04 59 15.8–.55 15.47N 96.40W 16–9 4.0
NEIC III 06 04 59 15.8 15.47N 96.40W 16 4.0 ¶16484441
MEX Error ellipse: s-maj=8.3km s-min=2.7km az=-1.0.
NEIC Event type se. After MEX.
MEX III 08 22 30 36.6–.41 15.65N 96.05W 10–2 3.6 ¶601137205

MEX Error ellipse: s-maj=3.1km s-min=3.6km az=-1.0.
MEX III 09 12 40 41.1–.32 15.83N 95.48W 17–13 4.0
NEIC III 09 12 40 41.1 15.83N 95.48W 17 4.0 ¶16442208
MEX Error ellipse: s-maj=4.7km s-min=1.6km az=-1.0.
NEIC Event type se. After MEX.
MEX III 10 19 02 08.2–.43 15.96N 94.13W 73–8 3.8 ¶601137218

MEX Error ellipse: s-maj=3.0km s-min=2.3km az=-1.0.
MEX III 10 22 40 20.4–.64 15.74N 94.06W 28–17 3.8 ¶601137220

MEX Error ellipse: s-maj=8.1km s-min=4.1km az=-1.0.
MEX III 11 16 06 11.2–.49 15.93N 94.09W 88–7 3.9 ¶601137226

MEX Error ellipse: s-maj=12.3km s-min=2.6km az=-1.0.
MEX III 11 20 08 55.7–.60 15.19N 94.31W 16–6 3.7 ¶601137228

MEX Error ellipse: s-maj=6.6km s-min=2.0km az=-1.0.
MEX III 13 05 14 34.1–.87 15.52N 95.78W 10 4.0
NEIC III 13 05 14 34.2 15.53N 95.79W 10 4.0 ¶16442351
MEX Error ellipse: s-maj=11.1km s-min=4.8km az=-1.0.
NEIC Event type se. After MEX.
MEX III 15 21 27 46.7–.74 15.19N 95.61W 26–12 3.9 ¶601137262

MEX Error ellipse: s-maj=8.5km s-min=3.7km az=-1.0.
MEX III 17 00 57 30.2–.45 15.14N 94.32W 20–48 3.8 ¶601137278

MEX Error ellipse: s-maj=4.0km s-min=2.2km az=-1.0.
MEX III 17 08 57 28.4–.66 15.98N 94.15W 84–20 3.9 ¶601137281

MEX Error ellipse: s-maj=6.9km s-min=5.3km az=-1.0.
IDC III 19 08 19 37.2–4.2 15.09N 94.40W 0 3.8,3.4 ¶17197160

IDC Error ellipse: s-maj=78.9km s-min=52.7km az=89.0.
MEX III 24 07 15 18.4–.57 15.99N 97.65W 16–9 4.0 ¶601137341

MEX Error ellipse: s-maj=7.0km s-min=3.9km az=-1.0.
MEX III 26 10 23 35.7–.66 15.73N 96.04W 14–2 4.2
NEIC III 26 10 23 35.7 15.73N 96.04W 14 4.2 ¶16495719
MEX Error ellipse: s-maj=7.3km s-min=8.3km az=-1.0.
NEIC Event type se. After MEX.
MEX III 26 20 58 52.7–.58 15.76N 94.12W 76–9 4.0 ¶601137358

MEX Error ellipse: s-maj=5.3km s-min=3.2km az=-1.0.
MEX III 26 21 24 36.9–.40 15.67N 96.02W 16–1 3.9 ¶601137360

MEX Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.
MEX III 28 14 14 01.1–.34 15.42N 96.77W 3–2 4.0
NEIC III 28 14 14 01.1 15.42N 96.77W 3 4.0 ¶16475422
MEX Error ellipse: s-maj=2.8km s-min=1.6km az=-1.0.
NEIC Event type se. After MEX.
MEX III 30 02 43 18.0–.38 15.97N 97.02W 15–5 3.5 ¶601137404

MEX Error ellipse: s-maj=2.5km s-min=2.1km az=-1.0.
MEX III 30 08 25 41.6–.49 15.42N 97.23W 13–9 3.6 ¶601137411

MEX Error ellipse: s-maj=8.0km s-min=3.3km az=-1.0.
MEX IV 02 16 46 39.5–.38 15.23N 94.42W 4 3.7 ¶602595805

MEX Error ellipse: s-maj=8.8km s-min=9.6km az=-1.0.
ISC IV 04 09 56 27.0–1.1 15.96N–.06 94.02W–.06 82–9 3.4b 32 1-85
ISCJB IV 04 09 56 26.2–.78 15.98N–.06 94.03W–.06 89–6 3.5b ¶16577654
IDC IV 04 09 56 27.0–2.2 15.97N 94.01W 79–15 3.9,3.8
MEX IV 04 09 56 27.8–.49 15.91N 94.15W 69–13 4.1,3.8
NEIC IV 04 09 56 31.3 16.01N 93.77W 83 4.1,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=8.4km az=34.5.
IDC Error ellipse: s-maj=27.7km s-min=14.5km az=18.0.
MEX Error ellipse: s-maj=4.4km s-min=10.9km az=-1.0.
NEIC Event type se. After MEX.
ISC IV 06 08 49 02.5–1.3 15.60N–.09 97.92W–.06 14 3.8b 99 1-59
IDC IV 06 08 48 55.9–5.4 15.00N 97.54W 0 3.8,3.6 ¶16577697
NEIC IV 06 08 49 00.7 15.27N 97.77W 16 4.2b,4.1
MEX IV 06 08 49 04.4–.65 15.58N 97.91W 18 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=93.8km s-min=29.6km az=175.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=9.1km s-min=6.9km az=-1.0.
MEX IV 07 09 49 41.8–.56 15.74N 96.53W 8–19 3.9 ¶602595992

MEX Error ellipse: s-maj=14.0km s-min=6.5km az=-1.0.
MEX IV 08 15 20 50.3–.58 15.09N 94.32W 16–15 3.7 ¶602596010

MEX Error ellipse: s-maj=17.1km s-min=3.8km az=-1.0.
MEX IV 12 07 04 32.2–.52 15.74N 94.95W 20–10 4.0
NEIC IV 12 07 04 32.2 15.74N 94.95W 20 4.0 ¶16577794
MEX Error ellipse: s-maj=9.9km s-min=3.5km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 13 13 02 22.3–.72 15.97N 96.95W 16–11 3.7 ¶602596147

MEX Error ellipse: s-maj=5.6km s-min=4.0km az=-1.0.
MEX IV 14 13 04 07.9–.52 15.45N 94.55W 25–17 3.7 ¶602596183

MEX Error ellipse: s-maj=7.7km s-min=2.2km az=-1.0.
MEX IV 20 04 01 46.1–.50 15.87N 95.44W 15–11 3.7 ¶602596377

MEX Error ellipse: s-maj=8.2km s-min=4.6km az=-1.0.
MEX IV 20 12 46 35.4–.42 15.77N 96.39W 20–11 3.7 ¶602596382

MEX Error ellipse: s-maj=7.5km s-min=4.6km az=-1.0.
MEX IV 21 19 47 24.5–.55 15.59N 95.45W 16–14 3.9 ¶602596422

MEX Error ellipse: s-maj=31.7km s-min=9.0km az=-1.0.
MEX IV 22 07 56 31.5–.50 15.36N 94.13W 40–33 3.9 ¶602596455

MEX Error ellipse: s-maj=7.9km s-min=8.7km az=-1.0.
MEX IV 22 19 21 19.1–.38 15.53N 95.37W 16–10 3.8 ¶602596462

MEX Error ellipse: s-maj=27.7km s-min=4.4km az=-1.0.
ISC IV 22 20 42 31.6–.89 15.85N–.06 94.16W–.03 72–10 3.6b 31 1-134
ISCJB IV 22 20 42 30.6–.55 15.85N–.07 94.17W–.04 77–7 3.5b ¶16631196
NEIC IV 22 20 42 32.4 15.83N 94.23W 6 4.0
MEX IV 22 20 42 32.4–.65 15.83N 94.23W 6–9 4.0
IDC IV 22 20 42 33.1–2.3 16.07N 93.99W 74–14 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=5.6km az=14.7.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=7.0km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=14.1km az=16.0.
MEX IV 25 05 34 32.2–.78 15.57N 97.98W 16–22 3.6 ¶602596544

MEX Error ellipse: s-maj=17.4km s-min=13.7km az=-1.0.
MEX IV 25 10 04 45.6–.65 15.41N 94.80W 22–61 3.7 ¶602596545

MEX Error ellipse: s-maj=14.4km s-min=2.8km az=-1.0.
MEX IV 25 10 38 27.2–.75 15.67N 94.52W 16–8 3.7 ¶602596546

MEX Error ellipse: s-maj=6.7km s-min=2.3km az=-1.0.
MEX IV 26 07 23 03.3–.52 15.91N 94.42W 56–19 3.8 ¶602596567

MEX Error ellipse: s-maj=5.8km s-min=2.6km az=-1.0.
MEX IV 27 17 28 50.9–.33 15.87N 94.65W 19–169 3.8 ¶602596627

MEX Error ellipse: s-maj=4.4km s-min=1.4km az=-1.0.
ISC IV 28 04 51 46.4–2.8 15.1N–.10 94.50W–.04 0–16 3.7b 30 1-92
IDC IV 28 04 51 46.3–1.3 15.12N 94.40W 0 4.0,4.0L ¶16577910
MEX IV 28 04 51 52.5–.99 15.17N 94.53W 16–205 4.1,4.0L
NEIC IV 28 04 51 52.5 15.17N 94.53W 16 4.1,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=40.1km s-min=21.5km az=56.0.
MEX Error ellipse: s-maj=26.2km s-min=8.5km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 28 21 03 43.1–.55 15.92N 97.69W 16–11 3.6 ¶602596657

MEX Error ellipse: s-maj=8.9km s-min=3.5km az=-1.0.
MEX IV 28 23 55 19.4–.68 15.80N 94.16W 73–13 3.6 ¶602596661

MEX Error ellipse: s-maj=6.5km s-min=4.0km az=-1.0.
MEX V 01 02 27 12.6–.53 15.81N 97.44W 24–38 3.7 ¶602597577

MEX Error ellipse: s-maj=5.5km s-min=2.8km az=-1.0.
MEX V 02 05 23 25.0–.34 15.96N 97.62W 16–5 3.8 ¶602597587

MEX Error ellipse: s-maj=3.5km s-min=1.8km az=-1.0.
MEX V 10 14 35 29.7–.36 15.66N 96.04W 11–1 3.6 ¶602597681

MEX Error ellipse: s-maj=2.2km s-min=2.1km az=-1.0.
MEX V 14 09 20 21.1–.57 15.61N 95.19W 40–22 3.8 ¶602597729

MEX Error ellipse: s-maj=7.2km s-min=2.5km az=-1.0.
MEX V 16 06 25 40.3–.34 15.57N 97.13W 5 3.6 ¶602597758

MEX Error ellipse: s-maj=4.9km s-min=4.4km az=-1.0.

MEX V 16 11 08 46.5–.45 15.50N 94.90W 34–17 4.0
NEIC V 16 11 08 46.5 15.50N 94.90W 32 4.0 ¶602597765
MEX Error ellipse: s-maj=11.8km s-min=1.6km az=-1.0.
NEIC Event type se. After MEX.
MEX V 18 06 04 51.0–.46 15.74N 96.77W 17–24 3.9
¶602597783
MEX Error ellipse: s-maj=3.2km s-min=2.9km az=-1.0.
ISC V 20 00 20 21.0–1.4 15.54N–.10 95.85W–.04 16–8 3.6b 26 0-60
ISCJB V 20 00 20 20.6–1.1 15.6N–.10 95.84W–.04 24–7 3.6b ¶16710340
IDC V 20 00 20 21.4–8.7 16.12N 94.83W 0 3.9,3.6b
MEX V 20 00 20 21.8–1.0 15.54N 95.85W 4–6 4.0,3.6b
NEIC V 20 00 20 21.8 15.54N 95.85W 4 4.0,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=6.3km az=8.6.
IDC Error ellipse: s-maj=263.4km s-min=129.0km az=44.0.
MEX Error ellipse: s-maj=7.7km s-min=4.2km az=-1.0.
NEIC Event type se. After MEX.
MEX V 21 13 43 32.1–.69 15.40N 94.56W 16–8 3.9
¶602597815
MEX Error ellipse: s-maj=12.0km s-min=2.3km az=-1.0.
NEIC V 25 10 01 45.7 15.93N 96.86W 22 4.0
MEX V 25 10 01 45.7–.65 15.93N 96.86W 22–20 4.0 ¶602597851
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=4.2km s-min=3.3km az=-1.0.
MEX V 25 10 04 57.9–.43 15.95N 96.90W 16–6 3.7
¶602597852
MEX Error ellipse: s-maj=3.2km s-min=2.4km az=-1.0.
MEX V 26 17 02 14.6–.46 15.50N 94.75W 19–14 4.0
NEIC V 26 17 02 14.6 15.50N 94.75W 19 4.0 ¶602597860
MEX Error ellipse: s-maj=10.0km s-min=1.7km az=-1.0.
NEIC Event type se. After MEX.
MEX V 27 17 55 56.2–.44 15.58N 94.48W 22–36 3.7
¶602597869
MEX Error ellipse: s-maj=18.7km s-min=1.8km az=-1.0.
MEX V 28 08 26 07.1–.48 15.94N 96.88W 21–21 3.7
¶602597874
MEX Error ellipse: s-maj=3.5km s-min=2.4km az=-1.0.
ISC V 31 08 45 41.2–2.0 15.35N–.09 97.20W–.05 16–10 4.1b,3.4s 170 1-61
NEIC V 31 08 45 38.1 15.02N 97.41W 16 4.2,4.1b ¶16628202
MEX V 31 08 45 38.1–.73 15.02N 97.41W 16–16 4.2,4.1b
IDC V 31 08 45 39.6–2.8 15.54N 97.26W 0 4.1,3.9
ISCJB V 31 08 45 40.2–1.5 15.55N–.08 97.17W–.04 3–9 4.0b,3.3s
ISC Event type se.
NEIC Event type se. After MEX.
ISCJB Event type se.
MEX VI 04 06 12 16.3–.55 15.91N 96.99W 16–999 3.6
¶602597923
MEX Error ellipse: s-maj=5.3km s-min=3.7km az=-1.0.
MEX VI 04 07 19 42.7–.60 15.77N 97.44W 16–9 3.9
¶602597925
MEX Error ellipse: s-maj=6.8km s-min=3.3km az=-1.0.
MEX VI 05 19 51 45.5–.62 15.55N 96.24W 3 3.5
¶602597943
MEX Error ellipse: s-maj=10.4km s-min=4.4km az=-1.0.
ISC VI 06 15 20 16.3–.87 15.07N–.08 97.02W–.06 35 4.1b 47 1-131
IDC VI 06 15 20 10.4–1.1 14.97N 97.04W 0 4.2,4.2L ¶16646378
ISCJB VI 06 15 20 14.4–.71 15.04N–.07 97.03W–.04 33 4.0b,4.2L
NEIC VI 06 15 20 15.4 15.01N 97.14W 20 4.6,4.2b
MEX VI 06 15 20 15.4–.55 15.01N 97.14W 20–21 4.6,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=22.7km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.5km az=171.6.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=14.1km s-min=15.5km az=-1.0.
MEX VI 07 00 06 41.2–.30 15.62N 94.19W 33–22 3.6
¶602597959
MEX Error ellipse: s-maj=4.5km s-min=3.7km az=-1.0.
MEX VI 10 18 01 07.6–1.1 15.59N 96.45W 4 3.6
¶602598016
MEX Error ellipse: s-maj=8.1km s-min=4.5km az=-1.0.
ISC VI 11 11 39 54.1–1.0 15.85N–.07 95.07W–.03 49 24 1-60
IDC VI 11 11 39 51.2–8.2 17.03N 93.85W 0 4.0,3.6 ¶16856955
ISCJB VI 11 11 39 52.9–.64 15.85N–.08 95.07W–.04 49 3.5b,3.6
NEIC VI 11 11 39 55.5 15.88N 95.07W 19 4.3,3.6
MEX VI 11 11 39 55.5–.90 15.88N 95.07W 19–24 4.3,3.6
ISC Event type se.
IDC Error ellipse: s-maj=204.6km s-min=113.1km az=26.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=5.1km az=2.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=6.4km s-min=2.5km az=-1.0.
MEX VI 13 06 28 29.8–.40 15.13N 94.96W 25–49 4.2
NEIC VI 13 06 28 29.8 15.13N 94.96W 25 4.2 ¶602598047
MEX Error ellipse: s-maj=29.3km s-min=9.7km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 13 09 30 48.6–.31 15.47N 95.97W 7–5 3.8
¶602598049
MEX Error ellipse: s-maj=25.3km s-min=58.9km az=-1.0.
MEX VI 15 04 17 10.3–.37 15.98N 95.98W 12 3.7
¶602598069
MEX Error ellipse: s-maj=2.4km s-min=9.9km az=-1.0.
ISC VI 16 08 31 14.5–1.5 15.44N–.09 95.71W–.05 11–9 4.0b,3.0s 172 1-86
ISCJB VI 16 08 31 11.5–2.0 15.32N–.10 95.66W–.04 7–9 4.1b,3.1s ¶16730692
NEIC VI 16 08 31 15.8 15.37N 95.74W 20 4.3,4.0b
MEX VI 16 08 31 15.8–.72 15.37N 95.74W 20–6 4.3,4.0b
IDC VI 16 08 31 23.0–5.3 15.85N 95.42W 48–44 4.1L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=6.7km az=4.2.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=9.1km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=48.7km s-min=21.2km az=34.0.
MEX VI 17 15 42 33.1–.34 15.85N 96.10W 33–6 3.5
¶602598093
MEX Error ellipse: s-maj=4.2km s-min=5.0km az=-1.0.
MEX VI 21 14 36 28.2–.36 15.08N 94.11W 16–5 3.9
¶602598130
MEX Error ellipse: s-maj=6.7km s-min=2.3km az=-1.0.
MEX VI 24 16 03 41.8–.41 15.66N 94.93W 16–6 4.2
NEIC VI 24 16 03 41.8 15.66N 94.93W 16 4.2 ¶602598155
MEX Error ellipse: s-maj=6.2km s-min=1.8km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 25 02 29 55.2–.38 15.67N 94.06W 61–18 4.0
¶602598161
MEX Error ellipse: s-maj=23.7km s-min=5.1km az=-1.0.
MEX VI 30 16 49 17.1–.34 15.65N 95.80W 64–33 3.5
¶602598220
MEX Error ellipse: s-maj=47.0km s-min=77.0km az=-1.0.

(67) Off coast of Oaxaca.
MEX VI 05 20 58 32.9–.42 14.83N 95.03W 16–999 3.9
¶602597944
MEX Error ellipse: s-maj=26.0km s-min=14.6km az=-1.0.

(68) Off coast of Chiapas.
MEX I 06 08 23 59.3–.38 13.59N 92.39W 15–163 3.5
¶601136728
MEX Error ellipse: s-maj=136.6km s-min=15.8km az=-1.0.
MEX I 10 22 49 53.5–.78 14.95N 94.50W 17–10 4.2
¶601136768
MEX Error ellipse: s-maj=11.8km s-min=8.3km az=-1.0.
MEX I 11 03 48 40.8–.63 13.77N 92.26W 28–35 4.4
IDC I 11 03 48 37.7–3.3 14.25N 91.37W 0 3.9,3.7 ¶17189896
MEX Error ellipse: s-maj=7.8km s-min=28.8km az=-1.0.
IDC Error ellipse: s-maj=118.9km s-min=45.9km az=36.0.
MEX I 12 11 55 45.9–.42 13.50N 92.93W 15 4.0
IDC I 12 11 55 39.4–3.9 13.77N 90.66W 0 3.7,3.4L ¶601136774
MEX Error ellipse: s-maj=7.3km s-min=12.6km az=-1.0.
IDC Error ellipse: s-maj=138.6km s-min=43.9km az=32.0.
MEX I 20 10 25 48.3–.43 13.59N 92.17W 139–125 3.7
¶601136815
MEX Error ellipse: s-maj=87.6km s-min=64.6km az=-1.0.
MEX I 21 12 05 14.2–.57 13.78N 92.04W 74–152 3.9
¶601136827
MEX Error ellipse: s-maj=66.2km s-min=46.6km az=-1.0.
MEX I 23 17 40 06.4–.33 13.75N 92.38W 15 3.7
IDC I 23 17 40 03.7–2.8 14.15N 91.75W 0 3.9,3.7b ¶17190820
MEX Error ellipse: s-maj=4.2km s-min=5.3km az=-1.0.
IDC Error ellipse: s-maj=102.2km s-min=26.9km az=37.0.
MEX I 24 10 11 06.6–.64 13.96N 92.28W 40 3.9
¶601136860
MEX Error ellipse: s-maj=5.9km s-min=7.2km az=-1.0.
MEX I 31 06 56 59.8–.89 14.39N 94.40W 16–41 4.0
NEIC I 31 06 56 59.8 14.39N 94.40W 16 4.0 ¶16328589
MEX Error ellipse: s-maj=45.1km s-min=5.5km az=-1.0.
NEIC Event type se. After MEX.
MEX II 22 22 15 32.3–.68 14.56N 94.30W 14–7 3.9
¶601137089
MEX Error ellipse: s-maj=6.5km s-min=2.4km az=-1.0.
ISC III 04 03 04 15.4–1.0 14.46N–.09 94.10W–.04 30 4.0b 122 2-145
NEIC III 04 03 04 12.6 14.29N 94.08W 24 4.0 ¶16442184
MEX III 04 03 04 12.6–.61 14.29N 94.08W 24–22 4.0
ISCJB III 04 03 04 13.9–.61 14.46N–.06 93.95W–.05 30 4.3s,3.9b
IDC III 04 03 04 17.8–4.2 14.62N 93.81W 41–32 4.0,3.9
ISC Event type se.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=6.1km s-min=4.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.8km az=153.9.
IDC Error ellipse: s-maj=53.4km s-min=20.3km az=47.0.
MEX III 07 08 27 21.1–.37 13.55N 92.15W 16–999 4.1
¶601137196
MEX Error ellipse: s-maj=15.6km s-min=12.1km az=-1.0.
MEX III 08 11 48 14.2–.35 13.90N 92.43W 16–187 4.0
¶601137199
MEX Error ellipse: s-maj=158.9km s-min=19.5km az=-1.0.
ISC III 13 17 28 40.9–1.9 14.9N–.20 94.38W–.04 28 23 1-50
IDC III 13 17 28 32.1–10 14.39N 93.69W 0 3.8,3.6L ¶16477558
NEIC III 13 17 28 42.7 14.98N 94.41W 10 4.0,3.6L
MEX III 13 17 28 42.7–.71 14.98N 94.41W 10–11 4.0,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=203.7km s-min=116.4km az=14.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=8.6km s-min=4.9km az=-1.0.
MEX III 29 13 43 14.7–.35 13.68N 92.86W 17–239 3.7
¶601137394
MEX Error ellipse: s-maj=203.1km s-min=25.7km az=-1.0.
MEX III 30 02 50 31.5–.58 13.64N 92.66W 12–154 3.6
¶601137405
MEX Error ellipse: s-maj=131.7km s-min=8.4km az=-1.0.
MEX III 30 21 27 22.0–.51 13.78N 92.77W 15–105 3.8
¶601137421
MEX Error ellipse: s-maj=89.2km s-min=12.4km az=-1.0.
MEX IV 11 02 42 31.4–.42 14.73N 94.35W 17–11 4.1
NEIC IV 11 02 42 30.9 14.67N 94.36W 18 4.1 ¶16577785
MEX Error ellipse: s-maj=11.8km s-min=3.6km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 14 22 34 52.4–.61 13.90N 92.44W 20–734 3.8
¶602596187
MEX Error ellipse: s-maj=65.4km s-min=518.3km az=-1.0.
MEX IV 20 05 17 14.7–.31 13.73N 92.24W 72–59 3.7
¶602596378
MEX Error ellipse: s-maj=24.0km s-min=30.8km az=-1.0.
MEX IV 22 14 52 00.3–.38 13.92N 92.01W 11–424 3.7
¶602596458
MEX Error ellipse: s-maj=331.2km s-min=138.3km az=-1.0.
MEX V 13 00 25 49.3–.73 13.94N 92.40W 20–22 3.6
¶602597703
MEX Error ellipse: s-maj=7.3km s-min=10.9km az=-1.0.
MEX V 18 19 08 55.2–.38 13.23N 92.12W 20 3.6
¶602597789
MEX Error ellipse: s-maj=9.0km s-min=14.6km az=-1.0.
MEX V 22 11 48 10.0–.66 14.87N 94.57W 16–11 4.2
NEIC V 22 11 48 10.0 14.87N 94.57W 16 4.2 ¶602597823
MEX Error ellipse: s-maj=13.0km s-min=2.6km az=-1.0.
NEIC Event type se. After MEX.
MEX V 29 03 29 22.5–.95 13.90N 92.06W 83–21 4.2
¶602597877
MEX Error ellipse: s-maj=15.3km s-min=21.6km az=-1.0.
MEX VI 04 06 53 21.1–.35 13.89N 92.26W 23–23 3.5
¶602597924
MEX Error ellipse: s-maj=4.3km s-min=11.0km az=-1.0.
MEX VI 09 11 14 53.7–.29 13.68N 92.48W 16–122 3.6
¶602597987
MEX Error ellipse: s-maj=104.3km s-min=7.6km az=-1.0.
MEX VI 09 19 05 01.7–.57 13.24N 92.13W 52–999 3.5
¶602597992
MEX Error ellipse: s-maj=999.9km s-min=207.8km az=-1.0.
MEX VI 14 12 53 10.2–.74 13.76N 92.22W 20–999 3.9
¶602598063
MEX Error ellipse: s-maj=999.9km s-min=326.2km az=-1.0.
MEX VI 26 11 44 48.2–.37 13.98N 92.78W 14–114 4.0
¶602598173
MEX Error ellipse: s-maj=96.8km s-min=25.7km az=-1.0.
MEX VI 27 15 55 47.0–.39 13.94N 92.13W 14–999 3.7
¶602598185
MEX Error ellipse: s-maj=999.9km s-min=81.6km az=-1.0.
MEX VI 30 08 30 02.6–.33 13.87N 92.04W 16–999 3.9
¶602598211
MEX Error ellipse: s-maj=999.9km s-min=467.9km az=-1.0.

(69) Near coast of Chiapas.
MEX I 01 13 35 00.8–.32 14.24N 92.01W 25–91 3.5
¶601135988
MEX Error ellipse: s-maj=22.7km s-min=21.8km az=-1.0.
MEX I 01 22 22 54.9–.62 15.17N 93.24W 84–9 3.7
¶601135991
MEX Error ellipse: s-maj=7.5km s-min=6.0km az=-1.0.
MEX I 02 01 39 09.7–.39 14.15N 92.36W 14–69 3.8
¶601136102
MEX Error ellipse: s-maj=59.7km s-min=9.3km az=-1.0.
MEX I 02 02 23 09.1–.41 14.41N 92.63W 13–36 3.5
¶601136104
MEX Error ellipse: s-maj=31.7km s-min=3.6km az=-1.0.
MEX I 02 03 24 12.1–.42 14.56N 92.56W 60–16 3.5
¶601136106
MEX Error ellipse: s-maj=10.0km s-min=9.9km az=-1.0.
MEX I 02 12 04 49.5–.49 14.91N 93.47W 84–19 3.6
¶601136110
MEX Error ellipse: s-maj=13.4km s-min=9.2km az=-1.0.
MEX I 02 23 06 44.5–.61 15.34N 93.97W 31–24 3.7
¶601136112
MEX Error ellipse: s-maj=17.4km s-min=8.8km az=-1.0.
MEX I 03 02 25 59.7–.72 15.51N 93.49W 94–10 3.7
¶601136700

MEX Error ellipse: s-maj=17.0km s-min=11.6km az=-1.0.
ISC I 03 08 06 58.2–3.8 14.2N–.40 93.1W–.30 37 3.6b,3.0s 7 8-145
IDC I 03 08 06 52.5–3.7 14.03N 93.35W 0 3.8,3.5 **¶17189311**
ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=49.6km az=172.0.
MEX I 03 21 56 51.3–.36 14.75N 93.65W 16–112 3.6
¶601136704

MEX Error ellipse: s-maj=66.2km s-min=79.7km az=-1.0.
MEX I 04 15 57 31.0–.63 15.68N 93.83W 78–8 3.5
¶601136716

MEX Error ellipse: s-maj=6.9km s-min=7.8km az=-1.0.
MEX I 05 06 56 55.0–.90 14.52N 93.27W 11–91 3.6
¶601136720

MEX Error ellipse: s-maj=73.0km s-min=46.6km az=-1.0.
MEX I 06 02 43 03.2–.56 15.33N 93.01W 110–5 3.9
¶601136723

MEX Error ellipse: s-maj=6.1km s-min=4.8km az=-1.0.
MEX I 07 15 51 37.9–.34 14.33N 92.38W 16–64 3.5
¶601136738

MEX Error ellipse: s-maj=55.7km s-min=9.1km az=-1.0.
MEX I 07 20 38 04.3–.70 14.55N 92.37W 72–10 4.0
¶601136740

MEX Error ellipse: s-maj=8.3km s-min=7.2km az=-1.0.
MEX I 07 23 23 39.1–.37 14.47N 92.61W 15 3.5
¶601136743

MEX Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
MEX I 08 00 27 53.7–.42 14.40N 92.64W 15 3.7
¶601136744

MEX Error ellipse: s-maj=5.4km s-min=5.0km az=-1.0.
MEX I 08 18 30 01.2–.50 15.05N 93.59W 16–154 3.6
¶601136748

MEX Error ellipse: s-maj=77.1km s-min=125.5km az=-1.0.
MEX I 09 02 19 14.8–.57 15.01N 93.01W 84–7 3.7
¶601136751

MEX Error ellipse: s-maj=4.8km s-min=4.0km az=-1.0.
MEX I 09 04 23 42.6–.63 15.81N 93.83W 85–9 3.9
¶601136752

MEX Error ellipse: s-maj=7.9km s-min=7.8km az=-1.0.
MEX I 09 09 00 21.2–.52 14.45N 92.45W 50–29 3.5
¶601136755

MEX Error ellipse: s-maj=11.6km s-min=9.0km az=-1.0.
MEX I 09 22 35 28.5–.40 14.27N 92.60W 76–14 3.7
¶601136760

MEX Error ellipse: s-maj=6.9km s-min=8.9km az=-1.0.
MEX I 09 23 11 41.6–.54 14.69N 92.49W 109–10 4.0
¶601136762

MEX Error ellipse: s-maj=13.4km s-min=14.3km az=-1.0.
MEX I 10 05 57 50.5–.57 15.04N 93.40W 58–14 3.6
¶601136764

MEX Error ellipse: s-maj=7.3km s-min=6.0km az=-1.0.
MEX I 11 01 24 43.2–.41 14.90N 93.29W 36–44 3.5
¶601136769

MEX Error ellipse: s-maj=7.2km s-min=4.3km az=-1.0.
MEX I 13 03 50 03.0–.89 14.60N 93.26W 24–43 3.7
¶601136778

MEX Error ellipse: s-maj=8.9km s-min=6.7km az=-1.0.
MEX I 13 08 54 52.2–.47 14.89N 93.19W 16–20 3.6
¶601136779

MEX Error ellipse: s-maj=16.6km s-min=13.6km az=-1.0.
MEX I 14 16 19 51.4–.44 15.49N 93.64W 77–9 3.6
¶601136785

MEX Error ellipse: s-maj=12.1km s-min=7.4km az=-1.0.
ISC I 15 07 40 31.1–.98 14.29N–.09 92.86W–.06 51 4.2b 149 1-145
IDC I 15 07 40 24.6–1.4 14.50N 92.28W 0 4.2,4.0b **¶15954481**
MEX I 15 07 40 29.9–.68 14.27N 92.82W 25–16 4.2,4.0b
ISCJB I 15 07 40 30.1–.66 14.32N–.06 92.64W–.07 51 4.3b,4.0b
NEIC I 15 07 40 30.0 14.27N 92.82W 25 4.2,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=77.8km s-min=22.8km az=55.0.
MEX Error ellipse: s-maj=6.8km s-min=4.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=8.9km az=40.9.
NEIC Event type se. After MEX.
ISC I 15 12 22 38.1–.67 14.94N–.08 93.64W–.05 57 4.4b 304 1-145
IDC I 15 12 22 29.4–1.6 14.78N 93.63W 0 4.4,4.2 **¶15954483**
NEIC I 15 12 22 33.5–.54 14.67N 93.83W 26 4.5b,4.4
ISCJB I 15 12 22 36.3–.44 14.87N–.05 93.63W–.03 57 4.4b,4.4
MEX I 15 12 22 36.8–.81 14.94N 93.65W 84–19 4.4,4.4
BJI I 15 12 22 40.4 15.00N 93.90W 50 4.4,4.4
ISC Event type se.
IDC Error ellipse: s-maj=57.0km s-min=17.3km az=40.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.2km az=207.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.6km az=12.9.
MEX Error ellipse: s-maj=12.5km s-min=8.9km az=-1.0.
ISC I 16 21 47 31.7–.78 15.63N–.08 93.55W–.03 85 3.6b 45 0-134
ISCJB I 16 21 47 30.8–.46 15.62N–.06 93.61W–.04 85 3.7b **¶16151602**
MEX I 16 21 47 32.6–.60 15.51N 93.61W 83–6 4.4
NEIC I 16 21 47 32.6 15.51N 93.61W 83 4.4,4.1b
IDC I 16 21 47 32.6–1.5 15.67N 93.61W 88–8 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=3.9km az=19.5.
MEX Error ellipse: s-maj=6.8km s-min=3.7km az=-1.0.
NEIC Event type se. After MEX.
IDC Error ellipse: s-maj=40.6km s-min=13.0km az=41.0.
MEX I 17 06 23 53.7–.51 14.56N 92.37W 78–6 3.6
¶601136795

MEX Error ellipse: s-maj=7.9km s-min=5.8km az=-1.0.
MEX I 17 15 06 15.5–.37 14.01N 93.46W 15 3.8
¶601136798

MEX Error ellipse: s-maj=6.7km s-min=6.6km az=-1.0.
MEX I 18 19 34 14.6–.43 14.39N 92.55W 37–19 3.8
¶601136803

MEX Error ellipse: s-maj=4.4km s-min=10.2km az=-1.0.
MEX I 19 06 35 06.6–.47 14.37N 92.39W 55–24 3.6
¶601136806

MEX Error ellipse: s-maj=10.8km s-min=8.4km az=-1.0.
ISC I 19 08 52 57.4–.98 14.4N–.10 92.0W–.10 67 3.4b 14 2-146
ISCJB I 19 08 52 55.6–.90 14.31N–.10 92.06W–.10 67 3.4b **¶17190541**
MEX I 19 08 52 55.4–.68 14.24N 92.02W 78–15 3.9
IDC I 19 08 52 57.4–2.8 14.64N 91.77W 62–27 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=6.1km az=42.7.
MEX Error ellipse: s-maj=11.3km s-min=10.1km az=-1.0.
IDC Error ellipse: s-maj=117.1km s-min=19.0km az=37.0.
MEX I 20 01 19 47.2–.65 15.47N 93.10W 86–8 3.5
¶601136811

MEX Error ellipse: s-maj=12.5km s-min=8.1km az=-1.0.
MEX I 20 03 26 34.5–.58 15.35N 93.42W 85–6 3.6
¶601136812

MEX Error ellipse: s-maj=7.7km s-min=7.0km az=-1.0.
MEX I 20 07 02 21.5–.44 14.17N 92.05W 15 3.6
¶601136813

MEX Error ellipse: s-maj=3.7km s-min=6.5km az=-1.0.
MEX I 20 19 16 38.3–.43 14.72N 92.60W 84–26 3.5
¶601136817

MEX Error ellipse: s-maj=28.6km s-min=17.6km az=-1.0.
MEX I 20 22 56 39.8–.54 14.76N 92.69W 84–6 3.5
¶601136819

MEX Error ellipse: s-maj=4.9km s-min=4.1km az=-1.0.
MEX I 21 02 25 41.3–.81 14.36N 93.07W 24–999 3.7
¶601136824

MEX Error ellipse: s-maj=53.1km s-min=33.4km az=-1.0.
MEX I 21 03 34 25.6–.48 14.87N 93.22W 16–51 3.6
¶601136825

MEX Error ellipse: s-maj=42.0km s-min=33.6km az=-1.0.
MEX I 21 16 24 19.4–.31 14.07N 93.42W 27–20 3.7
¶601136829

MEX Error ellipse: s-maj=4.7km s-min=3.0km az=-1.0.
MEX I 21 17 40 58.3–.42 14.88N 93.37W 34–73 3.6
¶601136830

MEX Error ellipse: s-maj=8.3km s-min=3.6km az=-1.0.
MEX I 21 18 23 48.9–.38 15.03N 93.87W 54–61 4.0
¶601136832

MEX Error ellipse: s-maj=22.3km s-min=11.7km az=-1.0.
MEX I 22 22 19 31.4–1.0 14.65N 92.68W 81–71 3.5
¶601136839

MEX Error ellipse: s-maj=60.6km s-min=37.8km az=-1.0.
MEX I 23 13 04 23.8–.47 15.04N 93.52W 16–52 3.8
¶601136847

MEX Error ellipse: s-maj=28.9km s-min=42.4km az=-1.0.
MEX I 23 18 11 45.3–.32 15.00N 93.21W 62–11 4.0
¶601136850

MEX Error ellipse: s-maj=6.4km s-min=3.7km az=-1.0.
MEX I 23 20 11 48.4–.42 14.69N 93.01W 20–74 3.9
¶601136852

MEX Error ellipse: s-maj=9.8km s-min=6.7km az=-1.0.
MEX I 23 22 11 45.7–.63 15.05N 93.40W 47–35 3.7
¶601136856

MEX Error ellipse: s-maj=15.9km s-min=10.0km az=-1.0.
MEX I 25 20 49 57.0–.54 15.65N 93.60W 69–7 4.1
¶601136874

MEX Error ellipse: s-maj=11.3km s-min=5.6km az=-1.0.
MEX I 26 14 27 28.6–.40 14.23N 92.12W 28–19 3.6
¶601136881

MEX Error ellipse: s-maj=4.9km s-min=6.8km az=-1.0.
MEX I 27 00 21 10.0–.46 14.69N 93.11W 16–39 3.7
¶601136883

MEX Error ellipse: s-maj=33.3km s-min=19.6km az=-1.0.
MEX I 27 04 20 39.8–.64 14.40N 92.65W 16–48 3.9
¶601136886

MEX Error ellipse: s-maj=44.4km s-min=7.1km az=-1.0.
MEX I 27 09 17 32.9–.44 14.68N 93.03W 16–30 3.7
¶601136888

MEX Error ellipse: s-maj=24.9km s-min=14.7km az=-1.0.
MEX II 02 07 45 53.2–.39 15.31N 93.44W 70–5 3.9
¶601136915

MEX Error ellipse: s-maj=9.7km s-min=11.4km az=-1.0.
MEX II 02 22 17 01.4–.87 14.87N 93.38W 10 4.1
¶601136919

MEX Error ellipse: s-maj=13.2km s-min=24.2km az=-1.0.
MEX II 09 09 10 35.6–.32 15.83N 93.69W 102–5 4.2
¶601136966

MEX Error ellipse: s-maj=6.6km s-min=7.7km az=-1.0.
MEX II 10 04 06 02.4–.58 15.41N 93.58W 60–31 3.5
¶601136975

MEX Error ellipse: s-maj=8.2km s-min=15.6km az=-1.0.
MEX II 10 07 47 59.0–.44 15.20N 93.24W 5 3.6
¶601136977

MEX Error ellipse: s-maj=15.3km s-min=14.4km az=-1.0.
MEX II 10 11 32 51.3–.59 14.98N 93.88W 20 3.9
¶601136979

MEX Error ellipse: s-maj=7.2km s-min=8.9km az=-1.0.
MEX II 10 16 26 41.5–.45 14.81N 93.68W 16–999 3.9
¶601136981

MEX Error ellipse: s-maj=29.3km s-min=18.0km az=-1.0.
MEX II 11 03 04 47.8–.29 14.16N 92.35W 44–144 3.9
¶601136985

MEX Error ellipse: s-maj=39.6km s-min=33.8km az=-1.0.
MEX II 11 16 08 53.8–.38 15.61N 93.84W 78–6 3.6
¶601136990

MEX Error ellipse: s-maj=3.7km s-min=2.6km az=-1.0.
MEX II 12 17 13 14.4–.70 14.82N 92.45W 102–8 3.6
¶601136995

MEX Error ellipse: s-maj=9.2km s-min=9.1km az=-1.0.
MEX II 13 02 30 45.5–.50 14.33N 92.41W 16–74 3.8
¶601137001

MEX Error ellipse: s-maj=65.1km s-min=9.0km az=-1.0.
MEX II 13 02 56 26.2–.30 14.71N 92.68W 90–24 3.5
¶601137002

MEX Error ellipse: s-maj=25.4km s-min=15.7km az=-1.0.
MEX II 13 08 20 03.2–.47 15.54N 93.79W 76–9 3.8
¶601137005

MEX Error ellipse: s-maj=4.7km s-min=6.2km az=-1.0.
MEX II 14 01 21 38.3–.68 14.37N 92.31W 40–102 3.8
¶601137011

MEX Error ellipse: s-maj=32.0km s-min=28.7km az=-1.0.
MEX II 15 02 45 38.5–.44 14.99N 92.93W 69–7 3.6
¶601137018

MEX Error ellipse: s-maj=5.2km s-min=3.8km az=-1.0.
MEX II 15 18 13 56.5–.54 15.82N 93.42W 101–9 3.8
¶601137022

MEX Error ellipse: s-maj=8.7km s-min=13.9km az=-1.0.
MEX II 16 01 13 49.2–.52 14.67N 92.86W 48–16 3.7
¶601137025

MEX Error ellipse: s-maj=6.8km s-min=5.3km az=-1.0.
MEX II 16 07 07 37.5–.34 14.79N 92.69W 57–29 3.5
¶601137029

MEX Error ellipse: s-maj=19.5km s-min=12.6km az=-1.0.
MEX II 16 11 36 56.4–.34 14.42N 92.21W 10–68 3.8
¶601137031

MEX Error ellipse: s-maj=58.7km s-min=17.3km az=-1.0.
MEX II 16 16 35 50.0–.86 15.29N 93.88W 16–999 3.7
¶601137032

MEX Error ellipse: s-maj=144.2km s-min=74.2km az=-1.0.
MEX II 17 06 23 47.2–.69 15.22N 93.41W 18 4.0
¶601137038

MEX Error ellipse: s-maj=5.4km s-min=7.5km az=-1.0.
MEX II 17 17 44 33.5–.54 14.96N 93.71W 16–73 3.8
¶601137042

MEX Error ellipse: s-maj=33.0km s-min=56.2km az=-1.0.
MEX II 18 12 51 19.4–.68 14.52N 92.29W 20–5 3.7
¶601137045

MEX Error ellipse: s-maj=6.9km s-min=7.7km az=-1.0.
MEX II 18 16 02 04.2–.31 14.75N 92.55W 70–14 3.6
¶601137047

MEX Error ellipse: s-maj=13.7km s-min=9.8km az=-1.0.
MEX II 19 03 45 24.7–.51 15.01N 93.25W 43–55 4.1
¶601137052

MEX Error ellipse: s-maj=20.5km s-min=11.7km az=-1.0.
MEX II 19 06 24 54.1–.69 14.66N 92.97W 16–43 3.9
¶601137053

MEX Error ellipse: s-maj=38.7km s-min=18.4km az=-1.0.
ISC II 19 10 31 15.2–.54 14.48N–.06 92.18W–.05 67 4.4b 212 2-145
ISCJB II 19 10 31 13.7–.40 14.41N–.05 92.11W–.04 67 4.4b **¶16032958**
IDC II 19 10 31 13.5–3.0 14.34N 92.07W 54–24 4.3,4.3L
NEIC II 19 10 31 14.2–.75 14.33N 92.23W 53–6 4.4,4.4b
MEX II 19 10 31 15.5–.61 14.34N 92.37W 27–53 4.4,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.3km az=39.0.
IDC Error ellipse: s-maj=37.5km s-min=22.8km az=45.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=5.8km az=212.0.
MEX Error ellipse: s-maj=12.9km s-min=14.3km az=-1.0.
MEX II 20 05 22 38.8–.35 14.35N 92.08W 1–139 3.7

MEX Error ellipse: s-maj=109.7km s-min=35.8km az=-1.0.
MEX II 20 05 48 16.5–.62 14.86N 92.32W 121–8 4.2 ¶601137063

MEX Error ellipse: s-maj=11.7km s-min=16.6km az=-1.0.
MEX II 21 02 39 21.9–.46 14.93N 93.22W 16–64 3.6 ¶601137064

MEX Error ellipse: s-maj=52.1km s-min=44.4km az=-1.0.
MEX II 21 15 15 45.1–.78 14.02N 93.53W 59–54 3.9 ¶601137072

MEX Error ellipse: s-maj=71.6km s-min=15.1km az=-1.0.
MEX II 23 06 31 00.6–.60 14.04N 93.05W 10 3.8 ¶601137078

MEX Error ellipse: s-maj=5.5km s-min=5.8km az=-1.0.
MEX II 23 14 52 07.1–.29 15.32N 93.06W 98–4 3.9 ¶601137095

MEX Error ellipse: s-maj=5.9km s-min=4.3km az=-1.0.
MEX II 23 17 31 52.5–.57 14.78N 92.91W 20–950 3.9 ¶601137096

MEX Error ellipse: s-maj=90.3km s-min=59.4km az=-1.0.
MEX II 24 10 14 20.6–.29 14.22N 92.04W 5 3.8 ¶601137099

MEX Error ellipse: s-maj=5.9km s-min=16.0km az=-1.0.
ISC II 25 07 27 02.5–2.4 14.8N–.20 92.99W–.09 50 9 1-50 ¶601137106
IDC II 25 07 26 55.5–4.4 14.67N 92.96W 0 3.8,3.5 ¶17192823
MEX II 25 07 26 57.5–.35 14.42N 92.99W 48–116 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=65.6km s-min=34.8km az=175.0.
MEX Error ellipse: s-maj=28.4km s-min=19.4km az=-1.0.
MEX II 26 01 28 44.5–.38 14.45N 93.38W 15–458 3.9 ¶601137118

MEX Error ellipse: s-maj=351.1km s-min=229.1km az=-1.0.
MEX II 26 04 27 55.9–.44 14.35N 92.86W 16–156 3.8 ¶601137122

MEX Error ellipse: s-maj=140.5km s-min=31.3km az=-1.0.
MEX II 26 18 02 00.2–.35 14.09N 92.40W 10 3.5 ¶601137132

MEX Error ellipse: s-maj=5.4km s-min=6.1km az=-1.0.
MEX II 27 19 52 31.5–.29 15.05N 93.15W 82–21 3.7 ¶601137140

MEX Error ellipse: s-maj=22.5km s-min=13.1km az=-1.0.
ISC II 28 08 27 10.6–.61 15.84N–.06 93.64W–.04 105 3.6b 36 0-134 ¶16388229
ISCJB II 28 08 27 10.4–.52 15.94N–.07 93.57W–.06 105 3.6b
IDC II 28 08 27 11.6–.96 16.01N 93.52W 97–5 3.8,3.7
MEX II 28 08 27 12.2–.35 15.70N 93.78W 90–5 4.1,3.7
NEIC II 28 08 27 12.2 15.70N 93.78W 90 4.1,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=5.8km az=38.1.
IDC Error ellipse: s-maj=20.9km s-min=8.8km az=29.0.
MEX Error ellipse: s-maj=8.4km s-min=5.1km az=-1.0.
NEIC Event type se. After MEX.
MEX II 28 08 49 03.5–.30 15.15N 93.02W 97–19 3.6 ¶601137143

MEX Error ellipse: s-maj=33.8km s-min=19.8km az=-1.0.
MEX III 01 08 53 38.8–.76 15.90N 93.79W 82–10 3.7 ¶601137146

MEX Error ellipse: s-maj=4.9km s-min=6.9km az=-1.0.
MEX III 02 05 19 44.0–.49 14.31N 92.63W 16–47 3.8 ¶601137151

MEX Error ellipse: s-maj=42.2km s-min=5.9km az=-1.0.
MEX III 02 14 10 27.4–.33 15.26N 93.61W 75–7 3.9 ¶601137157

MEX Error ellipse: s-maj=5.1km s-min=2.9km az=-1.0.
MEX III 02 21 14 39.1–.63 14.45N 92.47W 53–16 3.9 ¶601137160

MEX Error ellipse: s-maj=8.5km s-min=8.3km az=-1.0.
MEX III 03 16 29 38.5–.73 14.62N 92.27W 82–8 3.5 ¶601137162

MEX Error ellipse: s-maj=9.4km s-min=8.0km az=-1.0.
MEX III 04 07 27 48.5–.37 14.45N 92.47W 56–15 3.6 ¶601137167

MEX Error ellipse: s-maj=7.1km s-min=6.3km az=-1.0.
MEX III 05 03 17 09.3–.42 15.17N 93.47W 79–23 3.5 ¶601137174

MEX Error ellipse: s-maj=20.3km s-min=9.0km az=-1.0.
MEX III 05 05 05 40.4–.41 14.13N 92.61W 8–93 3.7 ¶601137176

MEX Error ellipse: s-maj=81.9km s-min=10.0km az=-1.0.
MEX III 05 10 02 06.4–.44 14.71N 92.88W 33–119 4.0
NEIC III 05 10 02 06.4 14.71N 92.88W 33 4.0 ¶16445690
MEX Error ellipse: s-maj=20.6km s-min=45.4km az=-1.0.
NEIC Event type se. After MEX.
MEX III 05 10 21 43.1–.45 14.26N 92.47W 20–560 4.0 ¶601137177

MEX Error ellipse: s-maj=23.6km s-min=16.2km az=-1.0.
MEX III 06 05 42 11.9–.50 14.71N 93.27W 21–298 4.3
NEIC III 06 05 42 11.9 14.71N 93.27W 21 4.3 ¶16445697
MEX Error ellipse: s-maj=46.5km s-min=55.1km az=-1.0.
NEIC Event type se. After MEX.
MEX III 07 01 58 20.6–.46 15.46N 93.51W 87–5 3.6 ¶601137194

MEX Error ellipse: s-maj=7.6km s-min=4.6km az=-1.0.
ISC III 08 11 57 55.8–1.1 14.16N–.07 92.41W–.05 45–11 4.4b 174 2-146
IDC III 08 11 57 50.0–1.1 14.38N 91.79W 0 4.2,4.0 ¶16295209
MEX III 08 11 57 56.3–.52 14.19N 92.58W 18–57 4.3,4.0
NEIC III 08 11 57 58.0–.86 14.37N 92.36W 35 4.4b,4.3
BJI III 08 11 58 00.8 14.60N 92.20W 71 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=52.2km s-min=17.3km az=54.0.
MEX Error ellipse: s-maj=7.9km s-min=7.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=8.1km az=211.0.
MEX III 08 12 10 19.5–.30 14.06N 92.43W 21–22 4.2 ¶601137200

MEX Error ellipse: s-maj=4.3km s-min=6.0km az=-1.0.
MEX III 08 12 42 34.0–.51 14.57N 92.80W 57–24 3.6 ¶601137201

MEX Error ellipse: s-maj=10.6km s-min=8.2km az=-1.0.
ISC III 09 08 38 56.7–1.1 15.3N–.10 93.58W–.04 85 3.7b 31 1-49
IDC III 09 08 38 42.8–10 15.17N 92.65W 0 3.9,3.7b ¶16449423
ISCJB III 09 08 38 55.9–.84 15.41N–.08 93.57W–.04 85 3.5b,3.7b
NEIC III 09 08 38 56.6 15.24N 93.62W 62 4.0,3.7b
MEX III 09 08 38 56.6–.43 15.24N 93.62W 62–9 4.0,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=207.8km s-min=45.9km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.7km az=2.3.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=6.1km s-min=2.5km az=-1.0.
MEX III 10 20 29 45.9–.50 15.56N 93.87W 68–10 3.6 ¶601137219

MEX Error ellipse: s-maj=4.5km s-min=3.1km az=-1.0.
MEX III 11 19 45 04.1–.25 14.63N 93.68W 9–42 3.9 ¶601137227

MEX Error ellipse: s-maj=25.8km s-min=27.8km az=-1.0.
MEX III 13 08 54 50.2–.48 14.38N 92.52W 27–11 3.7 ¶601137241

MEX Error ellipse: s-maj=4.8km s-min=3.6km az=-1.0.
ISC III 13 17 53 35.8–1.8 14.2N–.10 92.84W–.08 37 20 2-146
IDC III 13 17 53 26.6–3.9 13.94N 91.97W 0 3.8,3.5b ¶16477566
NEIC III 13 17 53 36.4 14.16N 92.83W 16 4.1,3.5b
MEX III 13 17 53 36.4–1.1 14.16N 92.83W 16–223 4.1,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=141.6km s-min=67.0km az=46.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=11.9km s-min=9.1km az=-1.0.
MEX III 13 22 59 06.3–.55 14.78N 93.64W 22–194 3.5 ¶601137244

MEX Error ellipse: s-maj=8.8km s-min=8.4km az=-1.0.
MEX III 15 04 11 39.3–.39 15.41N 93.34W 89–4 3.5 ¶601137256

MEX Error ellipse: s-maj=3.6km s-min=4.1km az=-1.0.
MEX III 15 12 22 08.3–.49 15.46N 93.43W 93–5 3.8 ¶601137259

MEX Error ellipse: s-maj=4.6km s-min=4.5km az=-1.0.
MEX III 16 10 06 18.1–.34 14.88N 93.33W 16–6 3.5 ¶601137268

MEX Error ellipse: s-maj=3.9km s-min=2.8km az=-1.0.
MEX III 16 19 41 36.2–.44 14.23N 92.70W 20 3.7 ¶601137270

MEX Error ellipse: s-maj=4.8km s-min=4.3km az=-1.0.
MEX III 17 00 43 23.8–.43 14.38N 93.32W 21–37 3.8 ¶601137277

MEX Error ellipse: s-maj=6.2km s-min=5.3km az=-1.0.
MEX III 17 01 42 51.3–.51 14.01N 93.98W 15–12 3.8 ¶601137279

MEX Error ellipse: s-maj=6.0km s-min=2.7km az=-1.0.
MEX III 18 03 24 45.1–.41 14.20N 92.98W 16–97 3.6 ¶601137288

MEX Error ellipse: s-maj=83.7km s-min=23.5km az=-1.0.
MEX III 18 16 16 02.4–.68 15.13N 93.09W 76–8 3.9 ¶601137292

MEX Error ellipse: s-maj=7.1km s-min=6.0km az=-1.0.
MEX III 18 17 30 42.7–.46 15.15N 93.09W 83–7 3.5 ¶601137293

MEX Error ellipse: s-maj=5.7km s-min=4.5km az=-1.0.
MEX III 19 05 07 37.1–.64 15.91N 93.93W 91–10 3.9 ¶601137301

MEX Error ellipse: s-maj=4.8km s-min=3.7km az=-1.0.
MEX III 22 03 49 16.4–.59 15.12N 93.60W 36–30 3.9 ¶601137319

MEX Error ellipse: s-maj=8.1km s-min=6.1km az=-1.0.
MEX III 22 08 02 02.7–.63 14.61N 93.57W 15 3.9 ¶601137322

MEX Error ellipse: s-maj=5.8km s-min=5.7km az=-1.0.
MEX III 22 19 21 43.9–.49 15.10N 93.71W 33–10 4.0
NEIC III 22 19 21 43.9 15.10N 93.71W 33 4.0 ¶16506137
MEX Error ellipse: s-maj=5.5km s-min=5.7km az=-1.0.
NEIC Event type se. After MEX.
ISC III 23 14 30 47.7–.39 14.39N–.05 93.15W–.04 51 4.7b,3.8s 476 1-152
IDC III 23 14 30 41.0–.65 14.41N 92.68W 0 4.7,4.6L ¶16449031
NEIC III 23 14 30 47.6–.64 14.43N 92.89W 41–5 4.7b,4.6
ISCJB III 23 14 30 47.1–.24 14.48N–.03 92.86W–.03 51 4.6b,3.9s
MEX III 23 14 30 47.9–.65 14.42N 93.11W 16–22 4.6,3.9s
BJI III 23 14 30 48.1 14.50N 92.90W 36 5.1b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=28.4km s-min=11.7km az=54.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=3.9km az=218.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.5km az=41.1.
MEX Error ellipse: s-maj=5.5km s-min=3.8km az=-1.0.
MEX III 23 14 48 15.9–.67 14.25N 92.61W 16–104 3.6 ¶601137331

MEX Error ellipse: s-maj=93.2km s-min=5.7km az=-1.0.
MEX III 23 16 40 46.6–.61 14.40N 93.18W 15 3.8 ¶601137332

MEX Error ellipse: s-maj=6.0km s-min=4.2km az=-1.0.
MEX III 23 17 21 13.6–.56 14.91N 92.67W 100–22 3.6 ¶601137333

MEX Error ellipse: s-maj=35.8km s-min=22.2km az=-1.0.
MEX III 23 23 25 08.8–.26 14.40N 93.10W 20 3.7 ¶601137336

MEX Error ellipse: s-maj=4.7km s-min=2.4km az=-1.0.
ISC III 24 02 10 21.6–2.0 14.67N–.08 93.04W–.07 17–12 3.9b 23 1-62
IDC III 24 02 10 16.9–5.5 14.63N 92.51W 0 4.2,3.9 ¶16440430
NEIC III 24 02 10 23.1 14.58N 93.11W 58 4.4,3.9
MEX III 24 02 10 23.1–.60 14.53N 93.15W 20 4.3,3.9
ISC Event type se.
IDC Error ellipse: s-maj=126.5km s-min=59.1km az=21.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=8.1km s-min=5.1km az=-1.0.
MEX III 24 04 19 39.8–.32 14.93N 93.33W 56–49 3.9 ¶601137338

MEX Error ellipse: s-maj=23.6km s-min=12.9km az=-1.0.
MEX III 24 13 16 51.6–.62 15.76N 93.40W 88–8 3.7 ¶601137343

MEX Error ellipse: s-maj=72.8km s-min=44.1km az=-1.0.
MEX III 25 08 29 24.0–.31 15.03N 93.06W 83–19 3.6 ¶601137350

MEX Error ellipse: s-maj=20.8km s-min=12.3km az=-1.0.
MEX III 25 17 35 00.2–.52 14.56N 92.73W 27–22 3.7 ¶601137353

MEX Error ellipse: s-maj=20.1km s-min=4.5km az=-1.0.
ISC III 27 06 20 56.0–.31 14.35N–.04 92.61W–.03 40–2 5.3s,5.3b 1285 1-159
IDC III 27 06 20 50.1–.45 14.45N 92.22W 0 5.3,5.2 ¶16362956
CASC III 27 06 20 54.3–1.2 14.43N 92.64W 20–456 5.7b,5.2
GCMT III 27 06 20 55.9–.10 14.34N 92.93W 29–0 5.7W,5.2
MEX III 27 06 20 55.0–.36 14.20N 92.74W 20–8 5.3,5.2
NEIC III 27 06 20 56.0–.17 14.37N 92.35W 35 5.7W,5.6W
ISCJB III 27 06 20 56.6–.15 14.47N–.02 92.39W–.02 54 5.3b,5.3s
MOS III 27 06 20 57.6–.98 14.63N 92.24W 55 5.4b,5.2s
NEIC III 27 06 20 57.0–.00 14.45N 92.35W 44 5.4b,5.2s
BJI III 27 06 20 58.1 14.40N 92.30W 53 5.6s,5.4
NEIC III 27 06 21 10.5–.00 14.25N 91.87W 32 5.6s,5.4
ISC Event type fe.
IDC Error ellipse: s-maj=20.8km s-min=9.8km az=51.0.
CASC Error ellipse: s-maj=94.8km s-min=279.1km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c230; s120,c324;Duration: 1ŝ7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.76±.04 $M_{\theta\theta}$-2.99±.03; $M_{\phi\phi}$-0.77±.04; $M_{r\theta}$1.79±.06; $M_{\theta\phi}$1.55±.03; $M_{\phi r}$-1.62±.07; Best double couple: NP1: ϕ_s125.00000°,δ61.00000°,λ98.00000°. NP2:ϕ_s289.00000°,δ30.00000°,λ76.00000°. Principal axes: T 4.5030,Plg73.0000°,Azm53.0000°; N -0.0490,Plg7.0000°,Azm301.0000° ; P -4.4560,Plg16.0000°,Azm209.0000° $M_0$4.48000×10^{17}
MEX Error ellipse: s-maj=7.3km s-min=2.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=220.0. Felt [IV] at Tapachula. Also felt at Huatulco. Felt [II] at Guatemala and Mixco, Guatemala. Also felt at Antigua Guatemala, Cahabon, Mazatenango, Panajachel, Quetzaltenango, San Pedro La Laguna, San Pedro Sacatepequez, Villa Canales and Villa Nueva. Felt at San Salvador, El Salvador. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}2.57 $M_{\theta\theta}$-1.93 $M_{\phi\phi}$-0.64 $M_{r\theta}$0.60 $M_{\theta\phi}$1.36 $M_{\phi r}$-0.89 Best double couple: NP1:ϕ_s131.00000°,δ56.00000°,λ101.00000°. NP2: ϕ_s293.00000°,δ36.00000°,λ75.00000°. Principal axes: T 2.8100,Plg76.0000°,Azm76.0000° ; N 0.1600,Plg9.0000°,Azm305.0000°; P -2.9700,Plg10.0000°,Azm214.0000° $M_0$2.90000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=1.5km az=41.3.
MOS Error ellipse: s-maj=7.4km s-min=4.0km az=103.6.
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}2.89 $M_{\theta\theta}$-1.65 $M_{\phi\phi}$-1.24 $M_{r\theta}$1.55 $M_{\theta\phi}$1.25 $M_{\phi r}$-0.92 Best double couple: NP1:ϕ_s125.00000° ,δ61.00000°,λ85.00000°. NP2:ϕ_s315.00000°,δ29.00000°,λ98.00000°. Principal axes: T 3.4300,Plg73.0000°,Azm24.0000°; N -0.2000,Plg3.0000°,Azm127.0000° ; P -3.2300,Plg16.0000°,Azm218.0000° $M_0$3.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s74 Moment tensor: Scale 10^{17}Nm; M_{rr}4.02 $M_{\theta\theta}$-3.16 $M_{\phi\phi}$-0.86 $M_{r\theta}$2.43 $M_{\theta\phi}$1.17 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s294.00000° ,δ28.00000°,λ92.00000°. NP2:ϕ_s112.00000°,δ62.00000°,λ89.00000°. Principal axes: T 4.8200,Plg73.0000°,Azm19.0000°; N -0.3700,Plg1.0000°,Azm112.0000° ; P -4.4500,Plg17.0000°,Azm202.0000° $M_0$4.60000×10^{17}

MEX III 27 06 34 59.3–.43 14.17N 92.64W 22–227 3.7
¶601137366

MEX Error ellipse: s-maj=11.7km s-min=8.5km az=-1.0.
MEX III 27 06 39 48.2–.52 14.08N 92.73W 16–301 3.6
¶601137367

MEX Error ellipse: s-maj=260.0km s-min=21.1km az=-1.0.
MEX III 27 06 48 55.0–.30 14.14N 92.69W 16–106 3.6
¶601137368

MEX Error ellipse: s-maj=93.7km s-min=7.1km az=-1.0.
MEX III 27 14 13 15.0–.37 14.17N 92.64W 16–308 3.6
¶601137370

MEX Error ellipse: s-maj=270.6km s-min=9.0km az=-1.0.
ISC III 27 20 55 42.1–2.0 14.4N–.10 93.14W–.08 51 12 1-62
IDC III 27 20 55 34.5–4.8 14.17N 93.03W 0 4.0,3.6 **¶17198850**
MEX III 27 20 55 37.5–.76 14.10N 93.22W 16–92 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=79.8km s-min=41.7km az=163.0.
MEX Error ellipse: s-maj=73.6km s-min=32.7km az=-1.0.
ISC III 27 21 56 31.9–.75 14.21N–.07 92.65W–.05 37 4.4b 66 2-146
IDC III 27 21 56 25.4–2.2 14.18N 92.31W 0 4.2,3.9 **¶16374418**
NEIC III 27 21 56 27.8 13.98N 92.79W 16 4.4b,4.1
MEX III 27 21 56 27.8–.84 13.98N 92.79W 16–141 4.1,4.1
CASC III 27 21 56 31.9–.85 14.84N 92.34W 20 4.4b,3.8L
ISCJB III 27 21 56 31.6–.54 14.35N–.06 92.55W–.04 37 4.4b,3.3s
ISC Event type se.
NEIC Event type se. After MEX.
ISCJB Event type se.
MEX III 28 03 54 12.5–.55 15.53N 93.38W 94–5 3.5
¶601137377

MEX Error ellipse: s-maj=6.3km s-min=4.4km az=-1.0.
MEX III 28 10 27 42.8–.33 14.86N 93.19W 43–23 3.5
¶601137381

MEX Error ellipse: s-maj=6.7km s-min=4.0km az=-1.0.
MEX III 28 16 50 18.4–.41 14.16N 92.65W 16–82 3.5
¶601137383

MEX Error ellipse: s-maj=72.8km s-min=10.5km az=-1.0.
MEX III 28 19 49 53.3–.32 14.34N 92.85W 20 3.5
¶601137388

MEX Error ellipse: s-maj=4.9km s-min=5.0km az=-1.0.
ISC III 30 01 13 46.3–2.0 14.9N–.20 93.05W–.08 67 3.4b 14 1-59
MEX III 30 01 13 46.8–.73 14.82N 93.13W 55–14 3.6 **¶17199133**
IDC III 30 01 13 49.4–6.0 15.31N 92.86W 75–31 3.4,3.4
ISC Event type ke.
MEX Error ellipse: s-maj=6.2km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=61.1km s-min=16.3km az=178.0.
MEX III 30 02 13 40.9–.71 14.73N 92.35W 92–5 3.6
¶601137403

MEX Error ellipse: s-maj=5.7km s-min=6.1km az=-1.0.
ISC III 30 09 45 22.7–.41 15.85N–.04 93.81W–.04 88–3 4.6b 607 1-135
CASC III 30 09 45 18.0–1.1 15.30N 94.19W 141–34 4.6b,4.2L **¶16391432**
MEX III 30 09 45 22.7–.68 15.79N 93.86W 81–7 4.4,4.2L
IDC III 30 09 45 22.2–.76 15.87N 93.65W 80–6 4.3,4.2
BJI III 30 09 45 22.9 15.80N 93.60W 96 5.1b,4.2
NEIC III 30 09 45 22.9–.33 15.78N 93.61W 86 4.7W,4.6b
ISCJB III 30 09 45 22.7–.28 15.91N–.02 93.60W–.03 101–2 4.5b,4.6b
ISC Event type fe.
NEIC Event type fe. Felt at Arriaga and Tuxtla Gutierrez. Moment Tensor Solution. s13
Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43 $M_{\theta\theta}$1.24 $M_{\phi\phi}$-0.80 $M_{r\theta}$0.02 $M_{\theta\phi}$0.02 $M_{\phi r}$-0.43
Best double couple: NP1:ϕ_s309.00000°,δ68.00000°,λ-25.00000°. NP2:ϕ_s49.00000°
,δ67.00000°,λ-15.00000°. Principal axes: T 1.2400,Plg1.0000°,Azm360.0000°
; N -0.1500,Plg57.0000°,Azm91.0000°; P -1.0900,Plg33.0000°,Azm269.0000°
$M_0$1.20000×10^{16}
ISCJB Event type fe.
ISC III 31 00 55 48.1–1.3 14.25N–.08 92.33W–.07 55–13 4.1b 55 1-62
MEX III 31 00 55 47.5–.98 14.10N 92.50W 16–999 3.9 **¶16475883**
ISCJB III 31 00 55 47.7–.81 14.34N–.09 92.27W–.06 58–7 4.2b
CASC III 31 00 55 48.4–1.0 14.53N 91.96W 2–22 4.4b
NEIC III 31 00 55 50.3–1.1 14.53N 92.17W 52–7 4.4b
IDC III 31 00 55 51.8–7.2 14.67N 92.17W 66–38 4.0,4.0
ISC Event type se.
MEX Error ellipse: s-maj=11.8km s-min=11.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=17.7km s-min=3.8km az=33.4.
CASC Error ellipse: s-maj=59.2km s-min=29.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=10.0km az=207.0.
IDC Error ellipse: s-maj=76.4km s-min=23.3km az=5.0.
MEX III 31 09 30 43.9–.29 14.88N 93.27W 32–4 3.5
¶601137430

MEX Error ellipse: s-maj=3.1km s-min=2.5km az=-1.0.
ISC III 31 13 57 50.7–4.2 14.3N–.30 92.9W–.10 87 7 1-62
MEX III 31 13 57 46.8–.43 13.95N 92.93W 58–48 3.8 **¶17199301**
IDC III 31 13 57 55.4–8.4 15.71N 92.26W 0 3.5,3.3
ISC Event type ke.
MEX Error ellipse: s-maj=13.3km s-min=10.8km az=-1.0.
IDC Error ellipse: s-maj=179.0km s-min=45.0km az=9.0.
MEX IV 01 03 58 27.1–.63 15.58N 93.35W 102–5 3.5
¶602595764

MEX Error ellipse: s-maj=4.2km s-min=5.6km az=-1.0.
MEX IV 01 10 01 45.3–.72 14.21N 93.40W 20–423 3.9
¶602595766

MEX Error ellipse: s-maj=9.9km s-min=9.8km az=-1.0.
MEX IV 02 11 19 22.5–.57 14.93N 92.83W 90–9 3.6
¶602595801

MEX Error ellipse: s-maj=9.9km s-min=7.6km az=-1.0.
MEX IV 03 23 02 11.5–.35 14.66N 92.59W 73–10 3.5
¶602595855

MEX Error ellipse: s-maj=10.5km s-min=7.6km az=-1.0.
MEX IV 04 04 41 14.3–.35 14.37N 92.08W 92–45 3.5
¶602595903

MEX Error ellipse: s-maj=47.3km s-min=42.0km az=-1.0.
MEX IV 04 06 18 13.7–.30 14.82N 92.91W 62–18 3.5
¶602595904

MEX Error ellipse: s-maj=11.9km s-min=7.5km az=-1.0.
MEX IV 04 16 40 44.1–.30 14.47N 92.80W 48–78 3.7
¶602595906

MEX Error ellipse: s-maj=24.3km s-min=18.2km az=-1.0.
MEX IV 12 22 55 42.7–.44 14.90N 92.22W 58–5 3.7
¶602596124

MEX Error ellipse: s-maj=6.1km s-min=5.2km az=-1.0.
MEX IV 13 14 03 06.4–.57 15.78N 93.70W 68–8 3.8
¶602596149

MEX Error ellipse: s-maj=4.7km s-min=8.0km az=-1.0.
ISC IV 14 04 51 00.0–1.9 14.26N–.06 92.34W–.04 14–13 31 1-7
MEX IV 14 04 51 07.1–.85 14.37N 92.45W 27–28 4.0 **¶16577801**
NEIC IV 14 04 51 07.5 14.39N 92.46W 27 4.0
ISC Event type se.
MEX Error ellipse: s-maj=10.1km s-min=10.5km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 14 08 11 03.1–.41 14.79N 92.54W 142–11 3.8
¶602596182

MEX Error ellipse: s-maj=8.9km s-min=7.5km az=-1.0.
MEX IV 14 19 16 38.6–.36 14.93N 93.74W 48–16 3.7
¶602596185

MEX Error ellipse: s-maj=4.8km s-min=5.6km az=-1.0.
ISC IV 15 01 42 16.9–.74 15.70N–.06 93.79W–.03 84–6 4.0b 43 1-134
CASC IV 15 01 42 14.9–1.0 16.05N 93.68W 83 4.0b **¶16587520**
ISCJB IV 15 01 42 15.6–.52 15.67N–.06 93.78W–.04 85–5 3.8b
IDC IV 15 01 42 17.9–1.5 15.86N 93.57W 86–8 4.1,4.0
MEX IV 15 01 42 18.0–.68 15.68N 93.71W 84–8 4.0,4.0
NEIC IV 15 01 42 18.0 15.68N 93.71W 84 4.0,4.0
ISC Event type se.
CASC Error ellipse: s-maj=28.2km s-min=22.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=5.1km az=29.1.
IDC Error ellipse: s-maj=25.5km s-min=11.3km az=24.0.
MEX Error ellipse: s-maj=5.7km s-min=6.9km az=-1.0.
NEIC Event type se. After MEX.
MEX IV 15 21 15 03.1–.29 14.15N 93.10W 35 3.7
¶602596205

MEX Error ellipse: s-maj=12.2km s-min=10.2km az=-1.0.
ISC IV 16 16 58 17.0–.53 15.64N–.05 93.60W–.03 98–4 4.2b 328 0-146
ISCJB IV 16 16 58 15.9–.45 15.61N–.04 93.48W–.03 101–2 4.1b **¶16442666**
MEX IV 16 16 58 17.5–.81 15.70N 93.64W 97–6 4.4
NEIC IV 16 16 58 17.5 15.69N 93.64W 97 4.4,4.2b
IDC IV 16 16 58 18.3–.94 15.85N 93.36W 98–5 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.8km az=33.8.
MEX Error ellipse: s-maj=4.2km s-min=4.0km az=-1.0.
NEIC Event type se. After MEX.
IDC Error ellipse: s-maj=19.0km s-min=13.3km az=30.0.
MEX IV 17 04 35 43.8–1.0 14.22N 92.23W 20–801 3.9
¶602596284

MEX Error ellipse: s-maj=655.7km s-min=196.3km az=-1.0.
ISC IV 17 14 16 11.9–1.7 14.6N–.10 93.92W–.08 30 3.8b 18 1-145
IDC IV 17 14 16 05.6–3.0 14.42N 93.61W 0 4.0,3.8b **¶16577848**
NEIC IV 17 14 16 07.3–2.2 14.38N 93.79W 10 4.2,3.8b
MEX IV 17 14 16 08.1–.55 14.27N 93.97W 16–242 4.2,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=59.1km s-min=45.0km az=2.0.
NEIC Event type se. Error ellipse: s-maj=36.3km s-min=18.5km az=168.0.
MEX Error ellipse: s-maj=145.6km s-min=151.8km az=-1.0.
MEX IV 18 05 19 49.0–.68 15.00N 93.54W 16–189 3.8
¶602596305

MEX Error ellipse: s-maj=105.7km s-min=151.0km az=-1.0.
MEX IV 18 14 57 03.6–.28 15.01N 93.53W 16–67 3.8
¶602596308

MEX Error ellipse: s-maj=38.0km s-min=54.4km az=-1.0.
MEX IV 18 17 02 14.7–1.1 14.77N 93.72W 16–999 3.9
¶602596310

MEX Error ellipse: s-maj=24.4km s-min=26.8km az=-1.0.
MEX IV 18 18 17 35.4–.32 14.69N 93.05W 16–403 3.7
¶602596312

MEX Error ellipse: s-maj=360.4km s-min=181.5km az=-1.0.
MEX IV 19 07 58 51.5–1.3 14.28N 92.38W 16–740 3.8
¶602596350

MEX Error ellipse: s-maj=640.6km s-min=118.3km az=-1.0.
MEX IV 19 12 53 04.5–.40 14.12N 92.38W 25 3.7
¶602596354

MEX Error ellipse: s-maj=9.7km s-min=24.4km az=-1.0.
MEX IV 19 15 50 33.6–.31 14.21N 92.01W 20–999 3.6
¶602596355

MEX Error ellipse: s-maj=74.2km s-min=59.8km az=-1.0.
MEX IV 20 03 28 29.4–.32 14.40N 92.18W 67–9 3.8
¶602596375

MEX Error ellipse: s-maj=11.0km s-min=10.7km az=-1.0.
MEX IV 20 12 46 25.9–.35 15.42N 93.29W 91–4 3.6
¶602596381

MEX Error ellipse: s-maj=9.4km s-min=12.9km az=-1.0.
MEX IV 21 08 17 07.4–.35 14.94N 93.28W 16–450 3.6
¶602596418

MEX Error ellipse: s-maj=339.8km s-min=321.8km az=-1.0.
MEX IV 21 09 22 00.6–.34 14.96N 93.25W 68–25 3.6
¶602596419

MEX Error ellipse: s-maj=16.7km s-min=10.6km az=-1.0.
MEX IV 21 21 07 36.5–.48 15.54N 93.64W 90–6 3.7
¶602596424

MEX Error ellipse: s-maj=7.5km s-min=9.6km az=-1.0.
MEX IV 22 02 01 15.3–.34 14.59N 93.27W 16–48 3.7
¶602596453

MEX Error ellipse: s-maj=38.0km s-min=24.7km az=-1.0.
ISC IV 22 07 24 55.4–2.6 14.90N–.10 93.63W–.07 26–16 3.6b 26 1-61
ISCJB IV 22 07 24 54.1–1.5 14.78N–.07 93.71W–.07 33–15 3.5b,3.3s **¶16577864**
MEX IV 22 07 24 56.8–.86 14.76N 93.65W 20–102 4.0,3.3s
NEIC IV 22 07 24 56.8 14.76N 93.65W 20 4.0,3.3s
IDC IV 22 07 24 58.0–4.4 15.04N 93.62W 37–34 3.8,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=8.8km az=43.4.
MEX Error ellipse: s-maj=59.1km s-min=70.9km az=-1.0.
NEIC Event type se. After MEX.
IDC Error ellipse: s-maj=47.7km s-min=26.1km az=32.0.
MEX IV 22 11 24 43.4–.46 15.49N 93.84W 72–16 3.8
¶602596457

MEX Error ellipse: s-maj=16.4km s-min=13.2km az=-1.0.
MEX IV 22 18 05 18.3–.38 14.96N 92.92W 77–8 3.5
¶602596459

MEX Error ellipse: s-maj=6.3km s-min=6.5km az=-1.0.
MEX IV 23 15 52 55.7–.44 14.25N 92.25W 36–146 3.7
¶602596483

MEX Error ellipse: s-maj=123.8km s-min=22.7km az=-1.0.
MEX IV 27 07 46 18.7–.36 14.15N 92.61W 16–999 3.6
¶602596619

MEX Error ellipse: s-maj=8.6km s-min=8.1km az=-1.0.
ISC IV 27 12 23 20.2–1.2 15.62N–.10 93.90W–.04 69 17 1-61
ISCJB IV 27 12 23 19.4–.94 15.60N–.09 93.94W–.04 69 3.5b **¶17202235**
MEX IV 27 12 23 21.2–.55 15.63N 93.97W 68–9 3.8
IDC IV 27 12 23 21.1–5.1 15.75N 93.76W 67–30 4.0L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=5.6km az=1.7.
MEX Error ellipse: s-maj=3.7km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=49.9km s-min=16.1km az=5.0.
MEX IV 27 16 27 37.5–.29 14.84N 93.47W 30–25 3.5
¶602596625

MEX Error ellipse: s-maj=5.4km s-min=3.7km az=-1.0.
MEX IV 27 18 39 35.5–.56 14.28N 92.35W 10–84 3.8
¶602596629

MEX Error ellipse: s-maj=72.7km s-min=12.9km az=-1.0.
MEX IV 28 09 57 31.2–.30 14.21N 92.13W 15 3.7
¶602596650

MEX Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
MEX IV 29 17 49 00.5–.33 14.40N 92.96W 29–17 3.7
¶602596692

MEX Error ellipse: s-maj=6.9km s-min=6.0km az=-1.0.
MEX IV 30 13 11 08.2–.94 15.49N 93.56W 84–10 3.8
¶602596721

MEX Error ellipse: s-maj=7.3km s-min=13.8km az=-1.0.
MEX V 01 02 46 04.2–1.4 14.19N 92.47W 29–32 3.8
¶602597578

MEX Error ellipse: s-maj=12.8km s-min=17.0km az=-1.0.
MEX V 02 01 28 45.3–.58 14.27N 92.68W 16–101 3.9
¶602597585

MEX Error ellipse: s-maj=87.6km s-min=11.2km az=-1.0.
MEX V 02 19 55 39.6–.31 14.27N 92.42W 16–140 3.5
¶602597591

MEX Error ellipse: s-maj=120.8km s-min=17.5km az=-1.0.
MEX V 03 10 00 06.7–.41 15.86N 93.58W 103–4 4.0
¶602597594

MEX Error ellipse: s-maj=6.8km s-min=7.4km az=-1.0.
MEX V 04 06 51 02.8–.95 15.36N 93.08W 86–13 3.6
¶602597606

MEX Error ellipse: s-maj=10.6km s-min=10.1km az=-1.0.
MEX V 05 00 43 03.5–.41 15.30N 93.50W 78–9 3.9
¶602597612

MEX Error ellipse: s-maj=10.3km s-min=7.8km az=-1.0.
MEX V 05 06 25 27.2–.65 15.30N 93.68W 66–38 3.9

MEX Error ellipse: s-maj=32.8km s-min=20.4km az=-1.0. ¶602597615
MEX V 05 06 41 44.6–.57 14.71N 92.88W 15–27 3.7

MEX Error ellipse: s-maj=22.0km s-min=9.6km az=-1.0. ¶602597616
MEX V 08 14 20 50.2–.78 14.69N 92.31W 81–8 3.5

MEX Error ellipse: s-maj=9.0km s-min=9.9km az=-1.0. ¶602597652
MEX V 09 03 52 11.5–.30 14.32N 92.68W 16–65 3.5

MEX Error ellipse: s-maj=57.8km s-min=8.3km az=-1.0. ¶602597659
MEX V 09 06 23 26.7–.49 15.73N 93.45W 40–5 3.5

MEX Error ellipse: s-maj=7.4km s-min=8.3km az=-1.0. ¶602597662
MEX V 11 00 06 23.8–.89 14.66N 93.17W 16–252 3.6

MEX Error ellipse: s-maj=208.3km s-min=128.0km az=-1.0. ¶602597685
MEX V 11 04 52 36.8–.92 14.90N 93.26W 48–28 3.6

MEX Error ellipse: s-maj=13.8km s-min=11.8km az=-1.0. ¶602597686
MEX V 12 14 00 54.5–.56 14.33N 92.93W 16–103 3.8

MEX Error ellipse: s-maj=89.7km s-min=25.5km az=-1.0. ¶602597701
MEX V 13 03 11 59.1–.38 14.41N 92.51W 16–52 3.6

MEX Error ellipse: s-maj=46.7km s-min=4.1km az=-1.0. ¶602597706
MEX V 13 06 35 46.1–.77 14.57N 92.77W 65–20 3.6

MEX Error ellipse: s-maj=10.3km s-min=11.7km az=-1.0. ¶602597712
MEX V 13 07 40 47.2–.89 14.41N 92.42W 27–23 3.5

MEX Error ellipse: s-maj=8.0km s-min=8.5km az=-1.0. ¶602597713
ISC V 13 17 40 43.6–1.0 15.62N–.07 93.75W–.04 84–9 3.9b 18 1-85
ISCJB V 13 17 40 42.7–.70 15.60N–.07 93.76W–.05 87–6 3.9b ¶17203561
IDC V 13 17 40 44.5–5.2 15.72N 93.59W 83–28 4.0,3.9
MEX V 13 17 40 45.0–1.1 15.63N 93.80W 77–12 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.2km az=13.2.
IDC Error ellipse: s-maj=54.9km s-min=16.7km az=2.0.
MEX Error ellipse: s-maj=6.3km s-min=5.3km az=-1.0.
MEX V 14 13 57 17.2–.53 14.42N 93.15W 17–67 3.5 ¶602597732

MEX Error ellipse: s-maj=56.1km s-min=26.8km az=-1.0.
MEX V 14 21 16 48.3–.75 15.54N 93.92W 68–346 3.5 ¶602597737

MEX Error ellipse: s-maj=336.7km s-min=184.1km az=-1.0.
MEX V 17 03 31 14.6–.85 14.25N 93.20W 13–102 4.1
NEIC V 17 03 31 15.3 14.26N 93.19W 16 4.1 ¶602597773
MEX Error ellipse: s-maj=83.1km s-min=40.8km az=-1.0.
NEIC Event type se. After MEX.
MEX V 17 05 47 59.3–.29 14.68N 93.24W 20–56 3.7 ¶602597774

MEX Error ellipse: s-maj=4.7km s-min=3.9km az=-1.0.
MEX V 17 08 02 56.4–.36 15.04N 93.39W 66–13 3.6 ¶602597776

MEX Error ellipse: s-maj=8.5km s-min=5.4km az=-1.0.
MEX V 17 19 07 19.5–.58 15.69N 93.77W 16–731 3.8 ¶602597779

MEX Error ellipse: s-maj=7.2km s-min=658.8km az=-1.0.
MEX V 18 01 21 01.4–.51 14.25N 92.59W 9–83 4.0 ¶602597781

MEX Error ellipse: s-maj=73.1km s-min=7.5km az=-1.0.
MEX V 18 03 03 38.4–.32 14.94N 93.33W 31–13 3.5 ¶602597782

MEX Error ellipse: s-maj=4.3km s-min=3.7km az=-1.0.
MEX V 18 06 23 04.7–.47 14.97N 92.75W 73–12 3.5 ¶602597784

MEX Error ellipse: s-maj=10.2km s-min=9.8km az=-1.0.
MEX V 18 17 59 47.5–.40 15.42N 93.34W 91–6 3.5 ¶602597788

MEX Error ellipse: s-maj=8.8km s-min=6.9km az=-1.0.
MEX V 19 13 27 13.0–.44 14.12N 92.57W 16–999 3.7 ¶602597796

MEX Error ellipse: s-maj=9.2km s-min=10.2km az=-1.0.
MEX V 19 16 39 29.9–.49 14.46N 93.03W 16–73 3.9 ¶602597797

MEX Error ellipse: s-maj=63.0km s-min=25.2km az=-1.0.
MEX V 19 23 40 32.7–.43 15.06N 93.39W 58–8 3.8 ¶602597799

MEX Error ellipse: s-maj=4.2km s-min=3.7km az=-1.0.
ISC V 20 00 05 13.7–.47 15.32N–.05 93.29W–.03 77–3 4.4b 371 0-144
NEIC V 20 00 05 12.7 15.22N 93.32W 74 4.8,4.4b ¶16591605
MEX V 20 00 05 12.7–.51 15.22N 93.32W 74–6 4.8,4.4b
ISCJB V 20 00 05 13.3–.38 15.39N–.03 93.17W–.03 83–3 4.3b,4.4b
IDC V 20 00 05 14.3–.94 15.52N 93.11W 78–5 4.2,4.1
ISC Event type se.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=4.2km s-min=2.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.1km az=37.1.
IDC Error ellipse: s-maj=19.0km s-min=15.4km az=43.0.
MEX V 20 00 11 26.3–.59 15.09N 93.39W 67–11 3.9 ¶602597801

MEX Error ellipse: s-maj=9.1km s-min=7.8km az=-1.0.
MEX V 20 00 50 08.9–.73 15.33N 93.11W 69–10 3.9 ¶602597802

MEX Error ellipse: s-maj=6.3km s-min=7.3km az=-1.0.
MEX V 20 03 06 00.1–.33 15.12N 93.36W 66–8 3.7 ¶602597803

MEX Error ellipse: s-maj=4.2km s-min=4.1km az=-1.0.
MEX V 20 03 32 55.9–.57 15.26N 93.27W 89–8 3.9 ¶602597804

MEX Error ellipse: s-maj=9.1km s-min=7.3km az=-1.0.
MEX V 20 05 29 42.2–.74 15.22N 93.30W 83–8 3.8 ¶602597806

MEX Error ellipse: s-maj=6.5km s-min=7.5km az=-1.0.
MEX V 21 06 17 30.9–.68 14.23N 92.31W 94–13 3.7 ¶602597813

MEX Error ellipse: s-maj=11.3km s-min=12.0km az=-1.0.
MEX V 21 23 19 45.2–.48 14.90N 92.87W 81–5 3.6 ¶602597817

MEX Error ellipse: s-maj=4.1km s-min=3.5km az=-1.0.
MEX V 23 07 51 05.4–.46 14.81N 93.56W 36–64 3.6 ¶602597833

MEX Error ellipse: s-maj=6.8km s-min=3.8km az=-1.0.
MEX V 24 04 45 47.6–.65 14.79N 92.88W 28–16 3.7 ¶602597838

MEX Error ellipse: s-maj=6.2km s-min=4.9km az=-1.0.
MEX V 24 10 56 28.6–.90 15.52N 93.38W 80–8 3.7 ¶602597840

MEX Error ellipse: s-maj=7.1km s-min=8.8km az=-1.0.
MEX V 24 11 49 05.6–.80 14.84N 92.92W 63–12 3.8 ¶602597841

MEX Error ellipse: s-maj=8.1km s-min=6.6km az=-1.0.
MEX V 26 11 28 33.6–.43 14.85N 93.59W 33–8 3.8 ¶602597858

MEX Error ellipse: s-maj=4.3km s-min=4.6km az=-1.0.
MEX V 26 19 38 48.3–.49 14.25N 92.72W 25–93 3.7 ¶602597861

MEX Error ellipse: s-maj=8.5km s-min=7.3km az=-1.0.
ISC V 26 23 58 52.6–.83 14.17N–.07 93.04W–.05 37 4.0b,3.1s 34 1-145
IDC V 26 23 58 46.4–3.5 13.99N 92.74W 0 4.2,4.0L ¶16631864

ISCJB V 26 23 58 51.6–.59 14.23N–.05 92.90W–.04 37 4.0b,3.1s
NEIC V 26 23 58 51.0 14.17N 93.10W 23 4.0b,3.9
MEX V 26 23 58 51.6–.69 14.17N 93.10W 23–20 4.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=63.7km s-min=39.6km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.6km az=27.8.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=8.2km s-min=5.7km az=-1.0.
MEX V 27 00 54 12.6–.48 14.61N 92.96W 3–33 3.8 ¶602597864

MEX Error ellipse: s-maj=30.6km s-min=16.1km az=-1.0.
MEX V 27 06 27 50.4–.44 15.73N 93.07W 114–5 3.7 ¶602597865

MEX Error ellipse: s-maj=5.4km s-min=4.5km az=-1.0.
MEX V 29 07 27 20.0–.64 14.45N 92.51W 42–15 4.0
NEIC V 29 07 27 20.0 14.45N 92.51W 42 4.0 ¶602597878
MEX Error ellipse: s-maj=8.2km s-min=7.9km az=-1.0.
NEIC Event type se. After MEX.
MEX V 29 17 28 56.4–.37 15.20N 93.34W 85–6 3.7 ¶602597881

MEX Error ellipse: s-maj=9.5km s-min=7.7km az=-1.0.
MEX V 31 01 14 50.4–.56 14.02N 92.23W 16–999 3.6 ¶602597893

MEX Error ellipse: s-maj=70.5km s-min=51.0km az=-1.0.
IDC V 31 16 16 29.1–9.3 15.40N 93.36W 106–60 3.6,3.5
MEX V 31 16 16 23.0–.72 15.95N 93.05W 104–122 4.2,3.5 ¶17204834
IDC Error ellipse: s-maj=110.9km s-min=50.8km az=164.0.
MEX Error ellipse: s-maj=187.2km s-min=109.8km az=-1.0.
MEX VI 01 10 40 02.2–.40 14.38N 92.34W 16–87 4.1 ¶602597897

MEX Error ellipse: s-maj=74.9km s-min=14.1km az=-1.0.
MEX VI 01 10 42 32.5–.37 14.69N 92.85W 59–47 3.7 ¶602597898

MEX Error ellipse: s-maj=25.8km s-min=16.4km az=-1.0.
MEX VI 01 16 02 00.6–.40 14.71N 92.86W 37–38 3.5 ¶602597900

MEX Error ellipse: s-maj=11.0km s-min=8.1km az=-1.0.
MEX VI 01 16 23 02.7–.66 14.59N 93.35W 16–999 3.7 ¶602597901

MEX Error ellipse: s-maj=11.3km s-min=8.5km az=-1.0.
MEX VI 02 09 40 11.0–.37 14.18N 92.05W 20 3.8 ¶602597908

MEX Error ellipse: s-maj=8.2km s-min=22.5km az=-1.0.
MEX VI 02 16 31 41.8–.35 15.63N 93.46W 22 3.8 ¶602597910

MEX Error ellipse: s-maj=7.1km s-min=6.8km az=-1.0.
MEX VI 02 21 20 03.1–.47 14.32N 92.49W 20–57 3.8 ¶602597911

MEX Error ellipse: s-maj=12.3km s-min=12.1km az=-1.0.
MEX VI 03 15 25 46.4–.60 15.79N 93.38W 92–6 3.7 ¶602597917

MEX Error ellipse: s-maj=10.1km s-min=11.2km az=-1.0.
MEX VI 03 17 16 10.0–.31 14.73N 92.57W 63–16 3.8 ¶602597918

MEX Error ellipse: s-maj=13.2km s-min=8.3km az=-1.0.
MEX VI 03 21 59 18.6–.31 14.22N 92.03W 5 3.9 ¶602597921

MEX Error ellipse: s-maj=5.2km s-min=17.7km az=-1.0.
MEX VI 04 08 34 00.9–.64 14.11N 93.15W 16–164 3.7 ¶602597926

MEX Error ellipse: s-maj=137.3km s-min=53.0km az=-1.0.
MEX VI 04 12 53 20.8–.39 14.14N 92.28W 5 3.5 ¶602597927

MEX Error ellipse: s-maj=5.2km s-min=16.7km az=-1.0.
MEX VI 05 09 17 51.3–.42 14.09N 92.25W 20 3.5 ¶602597936

MEX Error ellipse: s-maj=3.8km s-min=6.0km az=-1.0.
MEX VI 05 14 11 28.5–.47 15.03N 93.48W 16–105 3.7 ¶602597938

MEX Error ellipse: s-maj=61.1km s-min=84.4km az=-1.0.
MEX VI 05 22 15 07.6–.30 14.07N 93.43W 13–111 3.9 ¶602597945

MEX Error ellipse: s-maj=86.3km s-min=48.0km az=-1.0.
MEX VI 06 12 35 41.9–.33 14.75N 92.84W 16–28 3.5 ¶602597952

MEX Error ellipse: s-maj=27.9km s-min=10.6km az=-1.0.
ISC VI 06 14 31 46.6–1.5 15.7N–.10 93.43W–.08 100 9 0-49
ISCJB VI 06 14 31 45.1–1.5 15.7N–.20 93.28W–.10 100 3.5b ¶17205415
MEX VI 06 14 31 46.7–.36 15.68N 93.56W 90 3.9
IDC VI 06 14 31 50.6–5.3 16.15N 93.45W 85–24 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=11.8km az=162.5.
MEX Error ellipse: s-maj=19.4km s-min=20.1km az=-1.0.
IDC Error ellipse: s-maj=65.9km s-min=14.7km az=177.0.
MEX VI 06 23 17 14.0–.33 15.32N 93.74W 16–149 3.6 ¶602597958

MEX Error ellipse: s-maj=34.3km s-min=132.3km az=-1.0.
MEX VI 07 04 52 18.5–.38 15.47N 93.69W 73–6 3.6 ¶602597963

MEX Error ellipse: s-maj=7.1km s-min=6.4km az=-1.0.
ISC VI 07 14 55 19.6–.29 15.25N–.04 93.35W–.03 80–2 5.3b 1320 0-152
ISCJB VI 07 14 55 18.8–.14 15.41N–.02 93.18W–.02 77 5.2b ¶16570218
MOS VI 07 14 55 19.3–.97 15.49N 93.03W 76 5.5b,4.4s
GCMT VI 07 14 55 20.1–.10 15.31N 93.41W 76–1 5.4W,4.4s
BJI VI 07 14 55 20.1 15.40N 93.10W 76 5.2s,5.1b
IDC VI 07 14 55 20.2–.47 15.48N 92.90W 73–4 5.1,4.9
NEIC VI 07 14 55 20.1–.17 15.36N 93.08W 76 5.5W,5.4b
MEX VI 07 14 55 20.2–1.0 15.11N 93.49W 68–16 5.2,5.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=41.1.
MOS Error ellipse: s-maj=7.7km s-min=3.9km az=106.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s103,c179; s114,c207; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.54±.02 $M_{\theta\theta}$0.36±.02; $M_{\phi\phi}$0.18±.02; $M_{r\theta}$0.93±.01; $M_{\theta\phi}$-0.38±.02; $M_{\phi r}$-0.73±.01; Best double couple: NP1:ϕ_s308.00000°,δ77.00000°,λ-90.00000°. NP2:ϕ_s129.00000°,δ13.00000°,λ-89.00000°. Principal axes: T 1.3880,Plg32.0000°,Azm39.0000°; N -0.1200,Plg0.0000°,Azm308.0000°; P -1.2690,Plg58.0000°,Azm218.0000° $M_0$1.32900×10^{17}
IDC Error ellipse: s-maj=15.6km s-min=8.3km az=54.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=35.0. Felt [II] at Guatemala and Quetzaltenango, Guatemala. Also felt at Huehuetenango, Panajachel, San Antonio Huista and San Marcos La Laguna. Felt at Cayo, Belize and at Villahermosa, Mexico. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.55 $M_{\theta\theta}$0.89 $M_{\phi\phi}$0.65 $M_{r\theta}$0.26 $M_{\theta\phi}$-1.52 $M_{\phi r}$-0.15 Best double couple: NP1:ϕ_s308.00000°,δ49.00000°,λ-96.00000°. NP2:ϕ_s138.00000°,δ41.00000°,λ-83.00000°. Principal axes: T 2.3200,Plg4.0000°,Azm43.0000°; N -0.7500,Plg5.0000°,Azm312.0000°; P -1.5700,Plg84.0000°,Azm176.0000° $M_0$2.00000×10^{17} Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ81.00000°,λ-83.00000°. NP2:ϕ_s78.00000°,δ11.00000°,λ-129.00000°. Principal axes: T 1.0600,Plg36.0000°,Azm21.0000°; N 0.0300,Plg7.0000°,Azm116.0000°; P -1.0800,Plg53.0000°,Azm216.0000°
MEX Error ellipse: s-maj=11.7km s-min=7.5km az=-1.0.
MEX VI 07 21 33 32.6–.34 15.20N 93.55W 31–8 3.6 ¶602597968

MEX Error ellipse: s-maj=3.7km s-min=4.4km az=-1.0.
MEX VI 07 22 58 25.4–.46 15.56N 93.61W 79–6 3.6 ¶602597969

MEX Error ellipse: s-maj=5.3km s-min=5.5km az=-1.0.
MEX VI 08 16 30 53.5–.32 14.93N 92.79W 90–19 3.5 ¶602597977

MEX Error ellipse: s-maj=25.5km s-min=15.2km az=-1.0.
MEX VI 08 22 11 44.7–.39 15.27N 93.37W 79–5 3.5

MEX Error ellipse: s-maj=4.4km s-min=4.2km az=-1.0.
MEX VI 09 11 42 20.0–.36 14.58N 92.61W 74–36 3.5

MEX Error ellipse: s-maj=26.5km s-min=16.8km az=-1.0.
MEX VI 10 03 54 38.4–.61 14.08N 92.04W 20 3.5

MEX Error ellipse: s-maj=7.4km s-min=11.0km az=-1.0.
MEX VI 11 03 41 41.5–.36 14.93N 93.36W 32–4 3.9

MEX Error ellipse: s-maj=3.4km s-min=2.5km az=-1.0.
MEX VI 11 05 11 10.8–1.2 14.23N 93.81W 16–312 4.2

MEX Error ellipse: s-maj=207.5km s-min=187.5km az=-1.0.
MEX VI 11 06 27 10.3–1.2 14.39N 92.10W 7–24 3.8

MEX Error ellipse: s-maj=16.4km s-min=37.3km az=-1.0.
MEX VI 11 07 30 25.3–.58 15.18N 93.02W 96–8 4.0

MEX Error ellipse: s-maj=13.4km s-min=9.0km az=-1.0.
MEX VI 11 11 30 17.8–.48 15.29N 93.55W 78–111 3.8

MEX Error ellipse: s-maj=118.3km s-min=64.9km az=-1.0.
MEX VI 12 00 19 54.0–.42 14.02N 92.44W 16–142 4.0

MEX Error ellipse: s-maj=120.6km s-min=12.6km az=-1.0.
MEX VI 12 13 12 21.6–.40 15.04N 93.52W 56–21 4.0

MEX Error ellipse: s-maj=11.1km s-min=8.8km az=-1.0.
MEX VI 12 17 06 56.8–.35 14.79N 93.00W 58–12 4.0
NEIC VI 12 17 06 56.8 14.79N 93.00W 58 4.0
MEX Error ellipse: s-maj=7.2km s-min=4.9km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 13 03 12 18.9–.61 14.22N 92.27W 20–127 4.1

MEX Error ellipse: s-maj=107.9km s-min=23.5km az=-1.0.
MEX VI 13 09 09 24.3–.75 14.18N 92.63W 20–999 3.8

MEX Error ellipse: s-maj=43.0km s-min=36.9km az=-1.0.
MEX VI 13 11 05 22.4–.45 14.28N 92.33W 49–86 3.8

MEX Error ellipse: s-maj=29.8km s-min=25.4km az=-1.0.
MEX VI 13 21 56 32.1–.31 14.40N 92.78W 13–248 3.9

MEX Error ellipse: s-maj=166.4km s-min=122.1km az=-1.0.
MEX VI 14 00 59 26.8–.30 14.20N 92.47W 54–25 3.8

MEX Error ellipse: s-maj=8.4km s-min=22.0km az=-1.0.
MEX VI 14 01 30 11.5–.25 14.57N 93.58W 20 3.9

MEX Error ellipse: s-maj=8.2km s-min=6.5km az=-1.0.
MEX VI 14 09 42 03.9–.30 14.89N 92.89W 87–22 3.8

MEX Error ellipse: s-maj=13.2km s-min=26.2km az=-1.0.
MEX VI 14 17 33 24.2–.35 14.34N 92.73W 3 3.8

MEX Error ellipse: s-maj=4.4km s-min=3.7km az=-1.0.
MEX VI 14 21 17 29.8–.37 15.32N 93.48W 75–9 3.8

MEX Error ellipse: s-maj=8.8km s-min=6.3km az=-1.0.
MEX VI 15 12 31 12.5–.38 14.99N 93.56W 30–16 3.7

MEX Error ellipse: s-maj=3.7km s-min=4.6km az=-1.0.
MEX VI 16 16 37 20.8–.44 14.24N 92.08W 5 3.5

MEX Error ellipse: s-maj=5.6km s-min=13.3km az=-1.0.
MEX VI 17 02 07 26.8–.66 14.80N 93.49W 16–134 3.9

MEX Error ellipse: s-maj=89.8km s-min=94.6km az=-1.0.
MEX VI 17 02 14 21.3–.32 14.89N 93.12W 4–18 3.6

MEX Error ellipse: s-maj=15.5km s-min=11.3km az=-1.0.
MEX VI 17 04 54 11.0–.36 14.88N 93.28W 28–10 3.6

MEX Error ellipse: s-maj=3.7km s-min=3.4km az=-1.0.
MEX VI 17 22 24 48.2–.53 15.03N 93.87W 30 3.5

MEX Error ellipse: s-maj=4.6km s-min=8.5km az=-1.0.
MEX VI 18 10 41 59.7–.49 14.62N 92.97W 118–52 3.6

MEX Error ellipse: s-maj=49.4km s-min=30.5km az=-1.0.
MEX VI 19 07 33 42.3–.51 14.50N 92.83W 16–28 3.6

MEX Error ellipse: s-maj=25.0km s-min=8.0km az=-1.0.
MEX VI 22 12 58 20.5–.42 14.86N 92.31W 104–4 3.5

MEX Error ellipse: s-maj=5.4km s-min=4.6km az=-1.0.
MEX VI 23 13 13 18.9–.36 14.03N 92.10W 5 3.9

MEX Error ellipse: s-maj=5.3km s-min=19.8km az=-1.0.
MEX VI 23 21 49 40.7–.62 15.04N 93.12W 20–622 3.6

MEX Error ellipse: s-maj=8.0km s-min=33.8km az=-1.0.
MEX VI 24 02 49 04.8–.63 14.17N 92.64W 20–933 3.8

MEX Error ellipse: s-maj=33.8km s-min=25.0km az=-1.0.
MEX VI 25 00 45 59.7–.61 15.01N 93.49W 16–207 3.8

MEX Error ellipse: s-maj=122.1km s-min=167.4km az=-1.0.
MEX VI 25 08 00 16.1–.33 14.45N 92.66W 5 3.7

MEX Error ellipse: s-maj=7.1km s-min=8.7km az=-1.0.
MEX VI 25 16 45 37.1–.40 14.03N 92.18W 20 3.7

MEX Error ellipse: s-maj=4.6km s-min=11.8km az=-1.0.
MEX VI 25 23 59 07.2–.37 15.54N 93.33W 110–6 3.9

MEX Error ellipse: s-maj=4.0km s-min=4.2km az=-1.0.
MEX VI 26 08 35 19.0–1.7 14.11N 93.28W 17–999 3.9

MEX Error ellipse: s-maj=58.1km s-min=49.4km az=-1.0.
MEX VI 26 22 14 02.6–1.2 14.65N 93.10W 16–56 3.9

MEX Error ellipse: s-maj=37.7km s-min=31.6km az=-1.0.
MEX VI 27 05 52 20.5–1.0 14.80N 93.83W 16–999 4.0

MEX Error ellipse: s-maj=25.6km s-min=19.1km az=-1.0.
MEX VI 27 06 07 43.4–.48 14.31N 92.42W 14–79 4.0

MEX Error ellipse: s-maj=68.4km s-min=8.7km az=-1.0.
MEX VI 27 06 31 03.5–.38 15.75N 93.75W 85–5 3.9

MEX Error ellipse: s-maj=11.1km s-min=7.8km az=-1.0.
MEX VI 28 04 19 21.7–.40 14.29N 92.39W 20 3.8

MEX Error ellipse: s-maj=6.6km s-min=19.0km az=-1.0.
MEX VI 28 06 07 45.3–.41 14.81N 93.08W 53–59 4.1

MEX Error ellipse: s-maj=11.5km s-min=26.0km az=-1.0.
MEX VI 28 11 16 26.0–.40 14.53N 92.37W 6–7 3.8

¶602597982
MEX Error ellipse: s-maj=8.0km s-min=24.3km az=-1.0.
MEX VI 28 13 48 01.7–.57 14.77N 92.56W 63–41 3.6
¶602598195

¶602597988
MEX Error ellipse: s-maj=33.8km s-min=36.6km az=-1.0.
MEX VI 29 02 29 25.4–.76 14.71N 92.07W 116–35 4.2
¶602598198

¶602598006
MEX Error ellipse: s-maj=71.1km s-min=62.1km az=-1.0.
MEX VI 29 04 27 52.4–.99 15.50N 93.85W 16–190 4.0
NEIC VI 29 04 27 52.4 15.50N 93.86W 16 4.3b,4.0 **¶16886913**

¶602598022
MEX Error ellipse: s-maj=10.0km s-min=4.8km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 29 07 44 14.8–.69 14.16N 92.28W 16–999 4.0
¶602598023

MEX Error ellipse: s-maj=999.9km s-min=393.3km az=-1.0.
MEX VI 29 21 17 24.6–.50 14.28N 92.29W 74–42 3.8
¶602598024

MEX Error ellipse: s-maj=28.4km s-min=23.0km az=-1.0.
MEX VI 29 22 57 00.1–.38 14.44N 92.22W 95–17 3.8
¶602598026

MEX Error ellipse: s-maj=20.7km s-min=32.2km az=-1.0.
MEX VI 30 04 55 34.5–.38 14.19N 92.18W 68–37 3.9
¶602598029

MEX Error ellipse: s-maj=22.8km s-min=31.2km az=-1.0.
MEX VI 30 08 49 35.3–.41 14.13N 92.10W 14–999 3.9
¶602598036

MEX Error ellipse: s-maj=999.9km s-min=130.0km az=-1.0.
MEX VI 30 21 50 08.6–.61 14.74N 93.02W 51–66 3.8
¶602598038

MEX Error ellipse: s-maj=32.5km s-min=22.6km az=-1.0.

¶602598040 **(70) Guatemala.**
MEX I 01 23 06 28.4–.33 14.07N 91.61W 82–12 3.8
¶601135992

MEX Error ellipse: s-maj=9.0km s-min=9.4km az=-1.0.
¶602598045 **MEX I 02 03 13 57.1–.36 14.15N 91.80W 88–14 3.6**
¶601136105

MEX Error ellipse: s-maj=11.6km s-min=14.5km az=-1.0.
¶602598048 **MEX I 06 04 41 27.6–.64 14.04N 91.99W 15 3.6**
¶601136724

MEX Error ellipse: s-maj=5.7km s-min=10.5km az=-1.0.
¶602598050 **MEX I 06 10 14 34.6–.73 14.15N 91.34W 80–24 3.6**
¶601136729

MEX Error ellipse: s-maj=13.2km s-min=19.5km az=-1.0.
¶602598056 **MEX I 09 07 20 23.9–.39 14.13N 91.95W 15 3.8**
¶601136754

MEX Error ellipse: s-maj=4.9km s-min=6.8km az=-1.0.
¶602598057 **MEX I 09 12 47 45.7–.62 15.59N 90.11W 7–378 3.6**
¶601136758

MEX Error ellipse: s-maj=29.3km s-min=338.4km az=-1.0.
¶602598058 **MEX I 09 17 16 03.7–.38 14.11N 91.39W 63–52 3.8**
¶601136759

MEX Error ellipse: s-maj=38.8km s-min=25.3km az=-1.0.
¶602598061 **ISC I 14 19 13 54.6–1.6 14.2N–.10 91.83W–.08 48–16 3.9b 27 2-146**
ISCJB I 14 19 13 54.7–.89 14.3N–.10 91.77W–.07 66–12 3.9b **¶16151426**
CASC I 14 19 13 59.6–.90 14.03N 91.42W 17–5 3.7
NEIC I 14 19 14 01.4 14.39N 92.25W 28 4.0
MEX I 14 19 14 01.4–.72 14.39N 92.25W 28–35 4.0
IDC I 14 19 14 03.4–2.6 15.12N 91.77W 76–27 3.9,3.9
¶602598067 ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.7km s-min=5.3km az=29.3.
CASC Error ellipse: s-maj=11.7km s-min=4.8km az=-1.0.
¶602598073 NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=8.7km s-min=7.3km az=-1.0.
IDC Error ellipse: s-maj=74.8km s-min=16.3km az=49.0.
¶602598076 **MEX I 14 23 55 43.3–.44 14.85N 91.17W 249–5 4.0**
NEIC I 14 23 55 43.3 14.85N 91.17W 249 4.0 **¶16057164**
MEX Error ellipse: s-maj=8.6km s-min=7.6km az=-1.0.
¶602598081 NEIC Event type se. After MEX.
ISC I 17 12 21 36.0–2.0 14.5N–.20 90.8W–.10 200 3.4b 10 2-137
IDC I 17 12 21 27.6–7.1 14.45N 89.79W 142–46 3.6,3.3 **¶17190406**
¶602598082 MEX I 17 12 21 34.5–.61 14.50N 90.91W 253–21 4.1,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=78.5km s-min=45.1km az=163.0.
¶602598084 MEX Error ellipse: s-maj=11.1km s-min=35.1km az=-1.0.
MEX I 20 13 57 34.8–.68 15.18N 90.96W 33–70 3.8
¶601136816

¶602598096
MEX Error ellipse: s-maj=20.4km s-min=61.0km az=-1.0.
MEX I 23 21 57 47.2–.53 14.21N 91.59W 86–15 3.5
¶601136855

¶602598104
MEX Error ellipse: s-maj=14.1km s-min=12.7km az=-1.0.
IDC II 04 03 02 19.4–4.0 14.42N 91.50W 0 4.0,3.7
¶17191629

¶602598112
IDC Error ellipse: s-maj=117.9km s-min=52.0km az=32.0.
MEX II 13 16 10 00.0–.37 14.30N 91.75W 119–6 4.0
¶601137009

¶602598136
MEX Error ellipse: s-maj=10.4km s-min=11.3km az=-1.0.
MEX II 20 20 46 20.9–1.2 14.97N 91.51W 178–18 4.0
¶601137067

¶602598145
MEX Error ellipse: s-maj=25.0km s-min=31.7km az=-1.0.
MEX II 23 17 09 23.5–.33 14.26N 91.83W 79–47 3.6
¶601137098

¶602598147
MEX Error ellipse: s-maj=43.3km s-min=29.0km az=-1.0.
MEX II 26 19 12 55.9–.57 14.97N 90.51W 16–161 3.7
¶601137133

¶602598151
MEX Error ellipse: s-maj=54.9km s-min=131.5km az=-1.0.
ISC III 06 05 49 46.0–1.5 14.04N–.09 91.84W–.07 63–25 28 2-15
CASC III 06 05 49 47.9–.86 14.11N 91.72W 35–999 3.5L **¶16445698**
¶602598159 NEIC III 06 05 49 51.7 14.24N 91.96W 26 4.3
MEX III 06 05 49 51.7–.57 14.24N 91.96W 26–116 4.3
ISC Event type se.
¶602598163 CASC Error ellipse: s-maj=13.8km s-min=10.2km az=-1.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=13.6km s-min=15.6km az=-1.0.
¶602598165 **MEX III 06 14 28 02.0–1.1 15.70N 90.48W 60–95 4.0**
¶601137187

MEX Error ellipse: s-maj=9.6km s-min=23.8km az=-1.0.
¶602598167 **ISC III 10 14 30 18.9–.50 14.19N–.07 90.30W–.05 10 4.2b,3.9s 201 0-146**
ISCJB III 10 14 30 17.3–.31 14.21N–.04 90.34W–.04 10 4.4b,3.9s **¶16304928**
MEX III 10 14 30 21.0–.56 14.07N 90.35W 15 4.6,3.9s
¶602598171 NEIC III 10 14 30 21.8–.53 14.16N 90.38W 35 4.6,4.5
IDC III 10 14 30 30.8–.77 14.30N 90.48W 115–4 4.0,3.9
BJI III 10 14 30 35.3 15.50N 90.70W 15 4.0,3.9
¶602598178 ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=2.2km az=41.0.
MEX Error ellipse: s-maj=15.8km s-min=11.9km az=-1.0.
¶602598180 NEIC Event type se. Error ellipse: s-maj=12.6km s-min=7.3km az=224.0.
IDC Error ellipse: s-maj=30.9km s-min=13.6km az=63.0.
ISC III 10 14 30 46.5–.57 14.41N–.08 90.2W–.10 10 4.6b 43 6-137
¶602598181 ISCJB III 10 14 30 44.9–.53 14.41N–.07 90.24W–.09 10 4.7b,3.9s **¶602442213**
NEIC III 10 14 30 48.9–.96 14.26N 90.37W 35 4.6b,3.9s
ISC Event type fe.
¶602598182 ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=7.8km az=149.6.
NEIC Event type fe. Error ellipse: s-maj=28.4km s-min=10.5km az=53.0. Felt [III] at Guatemala and Villa Nueva. Felt widely in southern Guatemala. Felt [II] at San Salvador, El Salvador.
¶602598187 **MEX III 21 05 08 05.4–.31 14.19N 91.53W 68–21 3.6**
¶601137314

MEX Error ellipse: s-maj=11.0km s-min=13.8km az=-1.0.
¶602598192 **MEX III 23 12 54 36.8–.85 15.13N 91.00W 20–157 3.9**
¶601137330

MEX Error ellipse: s-maj=45.8km s-min=131.5km az=-1.0.
¶602598194 **MEX III 24 21 15 12.1–.44 15.12N 90.97W 20 3.5**

¶601137347

MEX Error ellipse: s-maj=5.5km s-min=5.1km az=-1.0.
MEX III 25 15 42 56.1–.75 14.25N 91.77W 15 3.8

¶601137352

MEX Error ellipse: s-maj=10.2km s-min=10.6km az=-1.0.
MEX III 27 06 12 36.2–.43 14.08N 91.95W 15 3.7

¶601137365

MEX Error ellipse: s-maj=4.4km s-min=7.7km az=-1.0.
ISC III 29 11 30 18.6–2.1 15.90N–.05 89.47W–.04 7–16 4.2b 42 2-84
IDC III 29 11 30 15.2–3.9 15.54N 89.29W 0 4.1,4.1L ¶17199063
NEIC III 29 11 30 18.8–1.8 15.85N 89.43W 10 4.1b,4.1L
CASC III 29 11 30 20.7–.72 15.91N 89.61W 0–26 4.1b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=75.2km s-min=37.9km az=171.0.
NEIC Event type se. Error ellipse: s-maj=29.3km s-min=11.6km az=149.0.
CASC Error ellipse: s-maj=53.7km s-min=7.9km az=-1.0.
ISC III 30 15 10 27.7–1.2 14.3N–.10 91.58W–.07 82 12 2-146
MEX III 30 15 10 23.2–.43 13.88N 91.65W 20 3.6 ¶17199212
ISCJB III 30 15 10 26.4–1.1 14.40N–.09 91.52W–.06 82 3.4b
IDC III 30 15 10 27.5–2.6 14.38N 91.52W 72–23 3.7,3.7
ISC Event type ke.
MEX Error ellipse: s-maj=4.6km s-min=7.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=8.2km az=17.4.
IDC Error ellipse: s-maj=28.2km s-min=16.7km az=19.0.
MEX IV 03 09 15 10.5–.43 14.07N 91.59W 30–15 3.8

¶602595850

MEX Error ellipse: s-maj=9.5km s-min=15.9km az=-1.0.
MEX IV 03 10 27 13.6–.31 14.02N 91.73W 9 3.8

¶602595851

MEX Error ellipse: s-maj=11.2km s-min=27.1km az=-1.0.
MEX IV 03 10 49 57.2–.28 14.33N 91.89W 5 3.8

¶602595852

MEX Error ellipse: s-maj=4.5km s-min=4.8km az=-1.0.
ISC IV 13 02 41 11.5–.94 14.12N–.04 89.71W–.03 11–6 3.9b 39 0-138
ISCJB IV 13 02 41 11.0–.58 14.11N–.05 89.76W–.04 18–6 3.9b ¶17200842
CASC IV 13 02 41 11.2–1.3 14.07N 89.73W 7–4 4.2L
IDC IV 13 02 41 20.4–3.1 14.45N 89.40W 71–27 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.3km az=21.6.
CASC Error ellipse: s-maj=3.3km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=46.0km s-min=19.4km az=41.0.
ISC IV 15 03 39 20.4–1.1 14.2N–.10 91.90W–.09 54 3.5b 17 1-146
ISCJB IV 15 03 39 18.7–.89 14.07N–.09 91.94W–.09 54 3.5b ¶17201082
IDC IV 15 03 39 21.7–2.5 14.28N 91.83W 69–19 3.4,3.4
MEX IV 15 03 39 23.2–.84 14.14N 91.98W 20–30 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=5.6km az=44.5.
IDC Error ellipse: s-maj=52.1km s-min=14.0km az=36.0.
MEX Error ellipse: s-maj=10.3km s-min=12.2km az=-1.0.
MEX IV 15 13 04 02.0–.63 14.36N 91.72W 32 3.6

¶602596202

MEX Error ellipse: s-maj=21.3km s-min=35.2km az=-1.0.
MEX IV 16 11 14 45.6–.26 14.27N 91.77W 42 3.7

¶602596252

MEX Error ellipse: s-maj=7.6km s-min=16.9km az=-1.0.
MEX IV 16 19 17 01.9–.29 14.59N 91.94W 97–12 3.8

¶602596254

MEX Error ellipse: s-maj=14.9km s-min=27.7km az=-1.0.
MEX IV 17 13 17 58.7–.38 14.13N 91.58W 25 3.8

¶602596285

MEX Error ellipse: s-maj=13.4km s-min=23.6km az=-1.0.
MEX IV 17 14 40 59.9–.41 14.07N 91.91W 13–220 4.0

¶602596286

MEX Error ellipse: s-maj=167.5km s-min=80.4km az=-1.0.
MEX IV 17 16 01 28.3–.27 14.13N 91.97W 5 4.0

¶602596287

MEX Error ellipse: s-maj=5.2km s-min=17.3km az=-1.0.
MEX IV 19 02 57 15.0–.34 14.07N 91.86W 16–931 3.5

¶602596348

MEX Error ellipse: s-maj=684.9km s-min=388.0km az=-1.0.
MEX IV 20 18 44 12.9–.35 14.39N 91.52W 60 3.9

¶602596385

MEX Error ellipse: s-maj=34.8km s-min=41.6km az=-1.0.
MEX IV 20 20 54 09.2–.51 15.14N 90.95W 12–999 3.9

¶602596387

MEX Error ellipse: s-maj=289.8km s-min=999.9km az=-1.0.
MEX IV 23 17 19 10.8–.36 14.19N 91.72W 56–30 3.7

¶602596484

MEX Error ellipse: s-maj=22.7km s-min=35.2km az=-1.0.
MEX IV 24 02 48 00.9–.30 14.54N 91.46W 10 3.7

¶602596522

MEX Error ellipse: s-maj=10.7km s-min=10.3km az=-1.0.
MEX IV 24 07 48 22.2–.52 14.33N 91.79W 20–39 3.7

¶602596525

MEX Error ellipse: s-maj=11.4km s-min=24.5km az=-1.0.
MEX IV 26 02 32 18.0–.71 14.08N 91.95W 20 3.6

¶602596566

MEX Error ellipse: s-maj=8.4km s-min=14.7km az=-1.0.
MEX V 04 21 43 56.2–.42 14.40N 91.65W 84–16 3.9

¶602597611

MEX Error ellipse: s-maj=12.3km s-min=17.3km az=-1.0.
MEX V 06 01 49 15.1–.49 14.58N 91.19W 28–28 3.8

¶602597622

MEX Error ellipse: s-maj=18.4km s-min=14.4km az=-1.0.
MEX V 13 04 53 22.3–.70 15.14N 90.89W 82–46 3.7

¶602597711

MEX Error ellipse: s-maj=16.0km s-min=23.8km az=-1.0.
MEX V 23 07 55 35.1–.91 15.10N 90.15W 12–274 4.0

¶602597834

MEX Error ellipse: s-maj=62.7km s-min=233.1km az=-1.0.
ISC V 23 09 44 28.7–1.1 15.32N–.05 89.93W–.05 10 28 1-6
CASC V 23 09 44 30.3–6.2 15.15N 90.69W 35–999 3.9,3.9L ¶601138148
MEX V 23 09 44 30.2–.85 15.15N 89.81W 32–999 3.9,3.9L
ISC Event type ke.
CASC Error ellipse: s-maj=45.4km s-min=38.8km az=-1.0.
MEX Error ellipse: s-maj=71.5km s-min=298.9km az=-1.0.
MEX V 24 14 07 35.4–.49 15.56N 90.74W 61–48 3.6

¶602597843

MEX Error ellipse: s-maj=7.1km s-min=15.6km az=-1.0.
ISC V 29 14 17 51.7–2.3 14.29N–.09 91.97W–.07 23–16 3.4b,2.9s 44 1-63
IDC V 29 14 17 54.0–9.3 14.03N 91.34W 104–58 3.5,3.5 ¶16711218
NEIC V 29 14 17 54.3 14.15N 92.14W 15 4.1,3.5
MEX V 29 14 17 54.3–.90 14.15N 92.14W 15 4.1,3.5
ISC Event type se.
IDC Error ellipse: s-maj=89.0km s-min=48.7km az=158.0.
NEIC Event type se. After MEX.
MEX Error ellipse: s-maj=7.5km s-min=10.2km az=-1.0.
ISC VI 01 02 27 16.5–.52 14.31N–.06 90.89W–.06 100 4.1b 190 1-150
NEIC VI 01 02 27 18.7–.83 14.29N 90.83W 127–8 4.3b ¶16577365
IDC VI 01 02 27 23.9–2.8 14.44N 90.37W 171–24 3.9,3.6
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.3km az=223.0.
IDC Error ellipse: s-maj=25.0km s-min=12.7km az=59.0.
ISC VI 03 19 20 10.7–.50 14.25N–.05 91.75W–.04 55–3 4.5b,3.6s 376 2-151
IDC VI 03 19 20 11.3–.82 14.51N 91.12W 54–5 4.2,4.2 ¶16577379
MEX VI 03 19 20 13.3–.84 14.06N 91.97W 20–118 4.6,4.2
CASC VI 03 19 20 13.3–2.2 14.29N 91.55W 75 4.6b,4.2L
NEIC VI 03 19 20 13.2–.82 14.22N 91.59W 79–7 4.6b,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=11.0km az=49.0.
MEX Error ellipse: s-maj=92.8km s-min=39.8km az=-1.0.
CASC Error ellipse: s-maj=9.6km s-min=12.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=214.0. Felt at Quetzaltenango and San Marcos La Laguna.
MEX VI 07 04 42 19.5–.28 14.36N 91.75W 80–22 3.6

¶602597962

MEX Error ellipse: s-maj=26.1km s-min=16.7km az=-1.0.
MEX VI 09 22 15 06.3–.45 14.07N 92.00W 20 3.6

¶602598002

MEX Error ellipse: s-maj=4.5km s-min=8.2km az=-1.0.
MEX VI 12 21 24 55.7–.70 15.16N 90.98W 16–212 3.7

¶602598042

MEX Error ellipse: s-maj=71.1km s-min=183.5km az=-1.0.
MEX VI 17 02 16 13.6–.43 14.23N 91.72W 80 3.7

¶602598083

MEX Error ellipse: s-maj=9.3km s-min=15.9km az=-1.0.
ISC VI 18 17 30 23.5–.76 14.07N–.05 91.82W–.05 70–6 4.8b 823 2-160
GCMT VI 18 17 30 19.5–.10 13.98N 92.33W 26–0 5.5W ¶602918674
NEIC VI 18 17 30 19.5–.18 14.02N 91.64W 32 5.5W,5.4W
CASC VI 18 17 30 20.1–1.7 14.27N 91.68W 0–182 4.9,4.9b
NEIC VI 18 17 30 20.0–.00 13.91N 92.11W 30 4.9,4.9b
MEX VI 18 17 30 20.4–.55 13.91N 92.11W 20 4.8,4.9b
ISCJB VI 18 17 30 24.1–.38 14.08N–.02 91.61W–.02 91–3 4.7b,4.9b
BJI VI 18 17 30 26.0 14.20N 91.50W 76 5.3s,5.1b
IDC VI 18 17 30 27.5–2.7 14.12N 91.59W 101–23 4.7s,4.7
MOS VI 18 17 30 27.3–.92 14.42N 91.67W 99 4.9b,4.7s
ISC Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s112,c210; s110,c187; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.74±.03 $M_{\theta\theta}$-1.36±.02; $M_{\phi\phi}$-0.37±.03; $M_{r\theta}$0.74±.04; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$-0.83±.05; Best double couple: NP1:ϕ_s127.00000°,δ62.00000°,λ101.00000°. NP2:ϕ_s285.00000°,δ30.00000°,λ71.00000°. Principal axes: T 2.1070,Plg71.0000°,Azm61.0000°; N -0.1770,Plg9.0000°,Azm302.0000°; P -1.9270,Plg16.0000°,Azm209.0000° $M_0$2.01700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=216.0. Felt [II] at Antigua Guatemala and Guatemala. Felt in much of southwestern Guatemala. Also felt at Antiguo Cuscatlan, Izalco, Olocuitla and San Salvador, El Salvador. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.03 $M_{\theta\phi}$0.29 $M_{\phi r}$0.06 Best double couple: NP1:ϕ_s170.00000°,δ44.00000°,λ91.00000°. NP2:ϕ_s348.00000°,δ46.00000°,λ89.00000°. Principal axes: T 1.3100,Plg88.0000°,Azm223.0000°; N 0.1400,Plg1.0000°,Azm349.0000°; P -1.4500,Plg1.0000°,Azm79.0000° $M_0$1.40000×10^{17}
CASC Error ellipse: s-maj=131.0km s-min=365.5km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46 $M_{\theta\theta}$-1.28 $M_{\phi\phi}$-0.17 $M_{r\theta}$1.04 $M_{\theta\phi}$1.16 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s115.00000°,δ62.00000°,λ82.00000°. NP2:ϕ_s312.00000°,δ29.00000°,λ104.00000°. Principal axes: T 1.8100,Plg72.0000°,Azm6.0000°; N 0.5300,Plg7.0000°,Azm119.0000°; P -2.3400,Plg16.0000°,Azm211.0000° $M_0$2.10000×10^{17}
MEX Error ellipse: s-maj=6.4km s-min=10.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=44.3.
IDC Error ellipse: s-maj=21.0km s-min=10.1km az=58.0.
MOS Error ellipse: s-maj=10.3km s-min=4.7km az=108.9.
MEX VI 24 23 48 20.9–.31 14.11N 91.64W 4 3.8

¶602598158

MEX Error ellipse: s-maj=10.9km s-min=23.9km az=-1.0.
MEX VI 30 13 06 32.0–.55 14.02N 91.10W 120–65 3.9

¶602598215

MEX Error ellipse: s-maj=60.1km s-min=44.7km az=-1.0.

(71) Near coast of Guatemala.

ISC I 02 14 11 29.2–.69 13.23N–.09 90.37W–.08 38 4.3b,3.5s 62 1-147
ISCJB I 02 14 11 27.3–.57 13.13N–.07 90.44W–.04 38 4.3b,3.5s ¶15927165
CASC I 02 14 11 28.9–.99 13.19N 90.31W 13–11 4.5b,4.0L
BJI I 02 14 11 31.7 13.40N 90.00W 76 4.5b,4.0L
NEIC I 02 14 11 33.7–1.4 13.38N 89.98W 76–14 4.5b,4.0
IDC I 02 14 11 33.4–2.9 13.34N 89.99W 75–24 3.9,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=4.8km az=9.1.
CASC Error ellipse: s-maj=9.8km s-min=5.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.6km s-min=11.0km az=56.0. Felt [II] at Ahuachapan.
IDC Error ellipse: s-maj=27.5km s-min=15.7km az=56.0.
IDC I 05 21 07 59.0–3.9 13.89N 90.74W 0 3.9,3.7L

¶17189540

IDC Error ellipse: s-maj=125.5km s-min=42.2km az=30.0.
IDC I 05 21 08 44.3–4.3 13.83N 90.38W 0 3.8,3.6L

¶17189543

IDC Error ellipse: s-maj=134.2km s-min=56.6km az=30.0.
IDC I 06 03 00 41.0–13 13.26N 90.27W 0 3.7,3.5

¶17189565

IDC Error ellipse: s-maj=283.4km s-min=116.6km az=7.0.
IDC I 06 16 17 30.6–4.1 13.66N 90.65W 0 3.8L,3.7
MEX I 06 16 17 40.7–.37 13.58N 91.41W 20–200 3.7,3.7 ¶17189600
IDC Error ellipse: s-maj=132.3km s-min=54.0km az=32.0.
MEX Error ellipse: s-maj=143.8km s-min=83.1km az=-1.0.
MEX I 08 02 26 41.7–.28 13.59N 91.69W 15 4.0

¶601136745

MEX Error ellipse: s-maj=4.2km s-min=11.4km az=-1.0.
MEX I 09 09 34 36.6–.40 13.91N 91.41W 40–12 3.7

¶601136756

MEX Error ellipse: s-maj=8.3km s-min=13.1km az=-1.0.
ISC I 10 21 58 11.6–1.5 13.9N–.20 91.4W–.10 73 3.6b 10 2-146
IDC I 10 21 58 05.0–3.3 14.55N 90.40W 0 3.8,3.8L ¶17189881
ISCJB I 10 21 58 10.0–1.4 13.9N–.10 91.5W–.10 73 3.5b,3.8L
MEX I 10 21 58 15.3–.48 13.94N 91.56W 44–36 3.9,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=118.0km s-min=35.7km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=24.7km s-min=11.0km az=45.0.
MEX Error ellipse: s-maj=10.5km s-min=9.3km az=-1.0.
MEX I 11 10 01 40.6–.52 13.74N 91.88W 20 4.1

¶601136771

MEX Error ellipse: s-maj=4.5km s-min=8.1km az=-1.0.
ISC I 18 11 15 35.9–1.4 13.9N–.10 91.86W–.08 54 3.5b 28 2-51
ISCJB I 18 11 15 35.3–.91 13.99N–.09 91.82W–.06 54 3.5b,3.1s ¶16151755
IDC I 18 11 15 35.4–2.6 14.77N 91.33W 0 3.8,3.8L
MEX I 18 11 15 36.2–.55 13.89N 91.99W 15 4.0,3.8L
NEIC I 18 11 15 36.2 13.89N 91.99W 15 4.0,3.8L
CASC I 18 11 15 39.5–.79 13.40N 91.30W 0–9 4.2,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=3.8km az=30.1.
IDC Error ellipse: s-maj=96.5km s-min=26.8km az=36.0.
MEX Error ellipse: s-maj=4.7km s-min=7.8km az=-1.0.
NEIC Event type se. After MEX.
CASC Error ellipse: s-maj=10.5km s-min=19.6km az=-1.0.
MEX I 20 22 15 30.6–.39 13.86N 91.47W 15 3.7

¶601136818

MEX Error ellipse: s-maj=7.7km s-min=12.3km az=-1.0.
MEX I 20 23 13 14.8–.31 13.57N 91.43W 13–511 3.8

¶601136821

MEX Error ellipse: s-maj=365.4km s-min=218.1km az=-1.0.
MEX I 21 18 11 57.0–.58 13.86N 91.83W 88–33 3.9

¶601136831

MEX Error ellipse: s-maj=21.5km s-min=22.1km az=-1.0.
ISC I 22 06 02 50.9–1.7 13.9N–.10 91.52W–.09 56–14 3.6b,3.0s 48 2-146
IDC I 22 06 02 44.1–3.2 14.05N 91.18W 0 3.9,3.6L ¶17190718
ISCJB I 22 06 02 51.3–.91 14.0N–.10 91.45W–.07 78–8 3.5b,3.6L
MEX I 22 06 02 54.0–.60 13.88N 91.76W 20–393 4.3,3.6L
CASC I 22 06 02 55.0–1.6 14.03N 91.21W 25–10 4.0,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=105.4km s-min=24.7km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=4.7km az=33.2.
MEX Error ellipse: s-maj=291.4km s-min=151.0km az=-1.0.
CASC Error ellipse: s-maj=22.8km s-min=7.1km az=-1.0.
ISC I 22 11 02 37.2–1.8 13.9N–.20 91.7W–.20 61 3.5b 11 2-146

IDC I 22 11 02 26.7–2.9 13.68N 91.17W 0 3.7,3.5 ¶17190737
MEX I 22 11 02 38.0–1.3 13.88N 91.92W 15–556 4.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=124.4km s-min=28.4km az=39.0.
MEX Error ellipse: s-maj=435.9km s-min=168.6km az=-1.0.
MEX I 22 11 28 22.9–.43 13.99N 91.50W 60–36 4.1
¶601136836
MEX Error ellipse: s-maj=16.6km s-min=17.5km az=-1.0.
ISC I 24 01 14 46.1–1.5 13.5N–.30 90.2W–.20 58 4.1b 11 4-52
IDC I 24 01 14 43.3–2.0 14.08N 89.70W 0 4.3,4.3s ¶16020110
NEIC I 24 01 14 47.5–1.0 13.90N 89.84W 35 4.0,3.5b
MEX I 24 01 14 47.3–.31 12.78N 91.25W 15 4.1,3.5b
ISC Event type fe.
IDC Error ellipse: s-maj=54.9km s-min=20.5km az=33.0.
NEIC Event type fe. Error ellipse: s-maj=34.4km s-min=9.9km az=216.0. Felt [II] at Ahuachapan.
MEX Error ellipse: s-maj=8.8km s-min=17.0km az=-1.0.
MEX I 25 10 07 44.4–.37 13.56N 91.54W 5 4.1
¶601136872
MEX Error ellipse: s-maj=12.5km s-min=33.1km az=-1.0.
ISC I 26 12 18 42.0–3.7 13.54N–.09 91.25W–.06 26–28 4.0b 52 1-147
IDC I 26 12 18 37.6–1.4 13.54N 90.99W 0 4.1,4.0L ¶16135858
ISCJB I 26 12 18 40.7–.82 13.42N–.07 91.29W–.04 41–8 3.8b,3.7s
NEIC I 26 12 18 42.8–.66 13.57N 91.18W 35 4.1,4.1b
CASC I 26 12 18 42.5–1.1 13.52N 91.10W 15–7 4.1b,4.1
MEX I 26 12 18 44.9–.55 13.53N 91.69W 6–429 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=45.4km s-min=24.4km az=37.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=4.4km az=27.2.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=8.0km az=218.0.
CASC Error ellipse: s-maj=14.9km s-min=9.1km az=-1.0.
MEX Error ellipse: s-maj=329.2km s-min=141.2km az=-1.0.
IDC I 26 21 10 27.6–3.9 13.70N 90.46W 0 3.8,3.7L
¶17191061
IDC Error ellipse: s-maj=123.3km s-min=52.2km az=32.0.
ISC I 27 22 59 58.8–.80 13.61N–.07 91.22W–.05 10 3.7b 37 2-147
ISCJB I 27 22 59 57.4–.64 13.52N–.05 91.32W–.04 10 3.7b ¶16136004
IDC I 27 22 59 57.4–4.2 13.71N 90.73W 0 3.8,3.6L
NEIC I 27 22 59 58.2–.58 13.80N 90.79W 10 4.0,4.0b
CASC I 27 23 00 00.2–1.2 13.48N 91.17W 10 4.0b,3.6L
MEX I 27 23 00 06.7–.59 13.82N 91.51W 6–206 4.0,3.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=3.8km az=32.0.
IDC Error ellipse: s-maj=136.3km s-min=55.4km az=33.0.
NEIC Event type se. Error ellipse: s-maj=23.6km s-min=7.4km az=57.0.
CASC Error ellipse: s-maj=9.4km s-min=7.9km az=-1.0.
MEX Error ellipse: s-maj=148.8km s-min=90.0km az=-1.0.
MEX I 28 12 25 44.8–.32 13.47N 91.78W 10 3.7
IDC I 28 12 25 39.0–3.9 13.93N 90.54W 0 3.6,3.4 ¶17191192
MEX Error ellipse: s-maj=6.3km s-min=16.3km az=-1.0.
IDC Error ellipse: s-maj=133.4km s-min=42.3km az=31.0.
IDC II 08 18 41 27.9–4.2 13.83N 91.06W 0 3.5,3.4b
¶17191904
IDC Error ellipse: s-maj=190.3km s-min=74.8km az=53.0.
MEX II 18 22 41 14.2–.31 13.92N 91.85W 10 3.8
¶601137050
MEX Error ellipse: s-maj=7.5km s-min=23.4km az=-1.0.
ISC II 19 14 57 11.5–1.0 13.50N–.06 90.65W–.06 67–8 4.7b 526 1-148
CASC II 19 14 57 05.4–2.1 13.14N 91.15W 35–16 4.8b,4.7 ¶16032643
NEIC II 19 14 57 08.3–.88 13.44N 90.62W 43–8 4.8b,4.5
MEX II 19 14 57 10.4–.51 13.25N 92.06W 7–626 4.5,4.5
MOS II 19 14 57 10.1–1.0 13.76N 90.69W 56 5.0b,4.5
ISCJB II 19 14 57 11.8–.45 13.58N–.03 90.60W–.04 84–3 4.7b,4.5
IDC II 19 14 57 12.9–2.4 13.58N 90.55W 75–20 4.6,4.5
BJI II 19 14 57 12.4 13.50N 90.60W 72 5.3b,5.2s
ISC Event type se.
CASC Error ellipse: s-maj=9.7km s-min=16.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=45.0.
MEX Error ellipse: s-maj=511.4km s-min=124.4km az=-1.0.
MOS Error ellipse: s-maj=15.8km s-min=5.8km az=108.4.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.1km az=135.4.
IDC Error ellipse: s-maj=22.7km s-min=9.6km az=55.0.
ISC II 19 15 48 59.1–.60 13.37N–.07 90.99W–.05 29 4.5b,3.8s 155 1-147
ISCJB II 19 15 48 57.7–.40 13.32N–.05 91.04W–.03 29 4.4b,3.8s ¶16032961
NEIC II 19 15 49 00.9–1.4 13.38N 90.93W 42–11 4.5b,4.4
MEX II 19 15 49 01.4–.35 13.24N 91.61W 5 4.4,4.4
CASC II 19 15 49 03.5–.98 13.37N 90.67W 16–6 4.5b,3.5L
IDC II 19 15 49 04.3–3.1 13.63N 90.59W 64–27 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.3km az=21.0.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=9.7km az=216.0.
MEX Error ellipse: s-maj=10.8km s-min=32.0km az=-1.0.
CASC Error ellipse: s-maj=7.2km s-min=5.9km az=-1.0.
IDC Error ellipse: s-maj=35.0km s-min=13.3km az=44.0.
ISC II 19 18 41 04.0–1.1 13.8N–.20 90.4W–.20 35 4.0b,3.8s 17 3-147
ISCJB II 19 18 41 01.7–.99 13.7N–.20 90.5W–.20 35 3.9b,3.8s ¶17192546
MEX II 19 18 41 02.9–.37 13.25N 91.45W 20 4.2,3.8s
IDC II 19 18 41 05.2–1.9 13.95N 90.34W 44–20 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.0km s-min=5.6km az=39.4.
MEX Error ellipse: s-maj=15.7km s-min=43.7km az=-1.0.
IDC Error ellipse: s-maj=68.2km s-min=12.0km az=36.0.
ISC II 20 00 58 13.6–.50 13.44N–.06 90.95W–.05 29 4.5b,3.8s 126 1-147
ISCJB II 20 00 58 15.3–.40 13.67N–.06 90.82W–.04 33 4.5b,3.8s ¶16363006
IDC II 20 00 58 16.6–5.5 14.05N 90.33W 32–39 4.0,4.0
NEIC II 20 00 58 19.3–.66 13.66N 90.61W 66–6 4.5b,4.0
MEX II 20 00 58 20.2–.86 13.74N 93.14W 60–171 4.1,4.0
BJI II 20 00 58 20.3 13.70N 90.60W 74 4.6,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=3.8km az=30.9.
IDC Error ellipse: s-maj=40.8km s-min=17.3km az=37.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.2km az=217.0.
MEX Error ellipse: s-maj=35.5km s-min=39.9km az=-1.0.
ISC II 21 14 29 09.7–.58 13.24N–.07 91.07W–.05 33 4.4b,4.0s 240 1-147
ISCJB II 21 14 29 08.5–.37 13.21N–.04 91.06W–.03 33 4.3b,4.0s ¶16172970
CASC II 21 14 29 13.2–1.1 13.26N 90.76W 20–5 4.4b,3.6L
NEIC II 21 14 29 14.6–.97 13.43N 90.72W 69–8 4.4b,4.2
IDC II 21 14 29 14.1–3.1 13.55N 90.64W 57–27 4.2,4.1L
MEX II 21 14 29 17.8–1.5 13.47N 92.16W 16–999 4.2,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=2.8km az=23.0.
CASC Error ellipse: s-maj=8.0km s-min=8.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=5.8km az=219.0.
IDC Error ellipse: s-maj=34.3km s-min=12.6km az=47.0.
MEX Error ellipse: s-maj=72.6km s-min=315.1km az=-1.0.
MEX II 21 17 51 08.8–.57 13.97N 91.55W 98–150 4.0
¶601137079
MEX Error ellipse: s-maj=106.6km s-min=86.3km az=-1.0.
IDC II 22 16 18 58.5–3.1 13.24N 91.41W 0 4.0,3.9L
¶17192715
IDC Error ellipse: s-maj=60.8km s-min=51.0km az=12.0.
MEX II 24 18 55 51.6–.48 13.80N 91.69W 20 3.5
¶601137109
MEX Error ellipse: s-maj=5.2km s-min=11.3km az=-1.0.
MEX II 26 16 25 17.8–.74 13.98N 91.86W 27–29 3.6
¶601137130
MEX Error ellipse: s-maj=10.7km s-min=23.8km az=-1.0.
MEX II 27 01 22 21.9–.59 13.85N 91.66W 63–30 3.9
¶601137135
MEX Error ellipse: s-maj=11.7km s-min=14.8km az=-1.0.
MEX II 27 08 43 29.6–.39 13.97N 91.87W 20 3.5
¶601137137

MEX Error ellipse: s-maj=6.3km s-min=9.3km az=-1.0.
ISC III 02 05 30 27.2–1.3 13.4N–.20 91.7W–.20 28 3.5b,3.2s 12 3-147
ISCJB III 02 05 30 25.5–1.2 13.4N–.10 91.6W–.20 28 3.5b,3.2s ¶17193108
MEX III 02 05 30 26.4–.47 13.43N 91.46W 9–214 3.7,3.2s
IDC III 02 05 30 34.1–4.3 14.33N 90.54W 61–46 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.9km s-min=8.6km az=144.5.
MEX Error ellipse: s-maj=155.9km s-min=89.7km az=-1.0.
IDC Error ellipse: s-maj=136.5km s-min=33.7km az=43.0.
MEX III 03 12 05 56.7–.46 13.46N 91.54W 190–68 4.2
¶601137161
MEX Error ellipse: s-maj=80.8km s-min=53.8km az=-1.0.
ISC III 06 09 45 17.9–.84 13.90N–.07 91.47W–.04 53–7 4.2b 124 1-146
IDC III 06 09 45 15.8–2.6 13.96N 91.10W 42–16 4.4L,4.0 ¶16442197
ISCJB III 06 09 45 17.7–.52 13.95N–.06 91.51W–.03 52–5 4.2b,3.2s
NEIC III 06 09 45 18.8–.88 13.84N 91.41W 59–6 4.5,4.3b
MEX III 06 09 45 18.9–.30 13.85N 91.47W 29–9 4.5,4.3b
CASC III 06 09 45 19.1–1.6 13.86N 91.43W 59 4.3b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=36.2km s-min=22.4km az=30.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=3.6km az=23.6.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=7.3km az=206.0.
MEX Error ellipse: s-maj=6.4km s-min=8.3km az=-1.0.
CASC Error ellipse: s-maj=20.1km s-min=7.2km az=-1.0.
ISC III 08 18 34 58.1–.86 13.89N–.09 91.48W–.07 61 3.7b 21 2-146
ISCJB III 08 18 34 56.6–.73 13.95N–.07 91.38W–.06 61 3.7b ¶17193484
IDC III 08 18 34 58.6–2.1 13.97N 91.38W 61–18 3.8,3.8
MEX III 08 18 35 01.2–.60 13.86N 91.85W 15 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=5.5km az=39.3.
IDC Error ellipse: s-maj=24.7km s-min=11.8km az=34.0.
MEX Error ellipse: s-maj=7.7km s-min=9.8km az=-1.0.
ISC III 15 00 32 44.3–.89 13.69N–.07 90.90W–.04 91–7 4.7b 113 1-147
IDC III 15 00 32 41.6–6.8 14.21N 90.04W 38–55 4.1L,3.9 ¶16478033
ISCJB III 15 00 32 44.3–.43 13.74N–.05 90.86W–.03 103–3 4.5b,3.9
NEIC III 15 00 32 44.7–.95 13.72N 90.73W 91–8 4.8b,4.3
CASC III 15 00 32 46.8–1.3 13.54N 90.77W 22–7 4.8b,3.7L
MEX III 15 00 32 48.3–.59 13.66N 91.07W 22–18 4.2,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=46.3km s-min=31.1km az=32.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=3.6km az=31.2.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=8.4km az=217.0. Felt [I] at San Salvador, El Salvador.
CASC Error ellipse: s-maj=12.0km s-min=6.5km az=-1.0.
MEX Error ellipse: s-maj=10.1km s-min=12.4km az=-1.0.
ISC III 15 07 21 18.4–1.5 13.7N–.10 90.54W–.09 82–17 33 1-9
ISCJB III 15 07 21 17.1–.86 13.8N–.20 90.52W–.10 98–11 ¶601137258
MEX III 15 07 21 17.7–.96 13.39N 90.75W 60–165 4.0
CASC III 15 07 21 18.0–1.2 13.81N 90.44W 96–6 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.4km s-min=5.3km az=31.0.
MEX Error ellipse: s-maj=92.3km s-min=126.0km az=-1.0.
CASC Error ellipse: s-maj=11.6km s-min=8.3km az=-1.0.
ISC III 15 22 40 00.2–.60 13.52N–.07 91.12W–.06 29 4.1b,3.5s 107 1-147
IDC III 15 22 39 56.8–.90 13.62N 90.79W 0 4.2,4.1 ¶16478389
NEIC III 15 22 39 57.9–4.8 13.56N 90.93W 10–29 4.5,4.3b
ISCJB III 15 22 40 00.3–.65 13.61N–.07 91.29W–.05 29 4.0b,3.5s
MEX III 15 22 40 06.6–.31 13.64N 91.74W 28–13 4.0,3.5s
CASC III 15 22 40 07.0–.83 13.64N 90.81W 16–6 4.4L,4.3b
ISC Event type fe.
IDC Error ellipse: s-maj=30.8km s-min=13.7km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=19.2km s-min=10.1km az=217.0. Felt [I] at Ahuachapan, El Salvador.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=3.6km az=28.6.
MEX Error ellipse: s-maj=5.8km s-min=14.1km az=-1.0.
CASC Error ellipse: s-maj=5.7km s-min=5.6km az=-1.0.
MEX III 22 16 31 22.5–.38 13.54N 90.39W 18–14 4.3
¶601137324
MEX Error ellipse: s-maj=16.6km s-min=16.2km az=-1.0.
MEX III 23 11 36 26.3–.40 13.57N 91.60W 20 3.8
¶601137329
MEX Error ellipse: s-maj=9.1km s-min=20.9km az=-1.0.
ISC III 28 12 19 16.1–.65 13.75N–.06 90.90W–.05 75–5 4.5b 527 1-147
IDC III 28 12 19 12.8–2.2 13.95N 90.52W 44–16 5.1L,4.4 ¶16392121
CASC III 28 12 19 14.9–1.9 13.66N 90.91W 21–8 4.9,4.7L
BJI III 28 12 19 15.8 13.80N 90.80W 83 5.1s,4.7
ISCJB III 28 12 19 16.3–.35 13.81N–.03 90.78W–.03 90–3 4.4b,4.7
NEIC III 28 12 19 16.7–.63 13.78N 90.81W 77–5 4.9,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=31.2km s-min=15.8km az=38.0.
CASC Error ellipse: s-maj=8.6km s-min=7.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=2.8km az=136.1.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=4.9km az=212.0. Felt [III] at Antigua Guatemala. Also felt at Ciudad Vieja, Escuintla, Mazatenango, Mixco, Palin, San Lucas Toliman, San Marcos La Laguna and Villa Nueva. Felt [III] at San Salvador, El Salvador.
MEX III 30 18 15 15.3–.28 13.62N 91.51W 20 3.5
¶601137418
MEX Error ellipse: s-maj=7.2km s-min=15.6km az=-1.0.
IDC IV 01 01 04 01.3–3.8 13.88N 90.73W 0 4.1,3.8
¶17199370
IDC Error ellipse: s-maj=154.6km s-min=31.1km az=40.0.
MEX IV 03 00 41 20.4–.40 13.97N 91.52W 20–999 3.8
¶602595846
MEX Error ellipse: s-maj=45.2km s-min=35.4km az=-1.0.
MEX IV 03 05 04 11.1–.31 13.59N 91.15W 15 3.9
¶602595847
MEX Error ellipse: s-maj=11.0km s-min=14.4km az=-1.0.
CASC IV 04 16 46 59.2–1.3 13.53N 90.16W 72–13 3.9,3.9L
¶602385138
CASC Error ellipse: s-maj=13.4km s-min=5.9km az=-1.0.
ISC IV 05 14 14 54.2–1.1 13.91N–.08 90.34W–.08 107–9 4.3b 70 3-147
ISCJB IV 05 14 14 54.3–.82 13.95N–.08 90.37W–.07 118–7 4.3b ¶16411030
IDC IV 05 14 14 55.9–1.8 14.02N 90.36W 114–14 4.2,4.0
NEIC IV 05 14 14 55.8–.80 14.00N 90.33W 114–7 4.6b,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.2km s-min=7.1km az=35.6.
IDC Error ellipse: s-maj=19.8km s-min=12.6km az=45.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=6.7km az=49.0. Felt [II] at San Salvador, El Salvador.
ISC IV 16 02 06 34.0–1.5 13.1N–.20 90.3W–.20 24 4.0b 12 4-62
ISCJB IV 16 02 06 32.2–2.0 13.0N–.30 90.4W–.20 24 4.0b ¶17201186
IDC IV 16 02 06 44.1–2.6 13.38N 90.68W 87–22 3.7,3.5
MEX IV 16 02 06 47.7–.47 13.52N 91.73W 20–436 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.8km s-min=14.2km az=26.3.
IDC Error ellipse: s-maj=42.6km s-min=22.8km az=21.0.
MEX Error ellipse: s-maj=169.4km s-min=659.2km az=-1.0.
MEX IV 21 20 09 45.1–.31 13.78N 91.62W 16–60 3.9
¶602596423
MEX Error ellipse: s-maj=7.2km s-min=18.8km az=-1.0.
MEX IV 26 01 26 03.0–.57 13.73N 91.72W 24–47 3.6
¶602596565
MEX Error ellipse: s-maj=17.2km s-min=42.6km az=-1.0.
MEX V 03 11 25 42.3–.33 14.00N 91.76W 26–13 3.9
¶602597595
MEX Error ellipse: s-maj=6.5km s-min=11.0km az=-1.0.
ISC V 08 01 21 39.0–1.3 13.4N–.10 91.54W–.08 28 3.7b 18 2-52
IDC V 08 01 21 34.7–1.9 13.37N 91.31W 0 4.1,3.9 ¶17203018
ISCJB V 08 01 21 38.2–1.2 13.51N–.08 91.47W–.08 28 3.7b,3.9
MEX V 08 01 21 41.2–.78 13.43N 91.84W 15 3.8,3.9
ISC Event type ke.

IDC Error ellipse: s-maj=38.3km s-min=26.3km az=31.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=10.6km az=20.8.
MEX Error ellipse: s-maj=10.1km s-min=21.4km az=-1.0.
ISC V 08 13 31 18.7–1.0 13.7N–.10 91.58W–.08 28 3.8b 26 3-146
IDC V 08 13 31 13.5–2.7 13.71N 91.17W 0 4.0,3.9L ¶16709168
ISCJB V 08 13 31 16.9–.94 13.64N–.10 91.53W–.09 28 3.7b,3.9L
MEX V 08 13 31 18.8–.52 13.59N 91.59W 15 4.1,3.9L
NEIC V 08 13 31 20.5–1.7 13.76N 91.52W 40–13 4.1,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=56.5km s-min=40.6km az=15.0.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=7.9km az=43.0.
MEX Error ellipse: s-maj=7.6km s-min=15.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=28.9km s-min=14.2km az=215.0.
ISC V 09 08 44 37.7–1.6 13.18N–.06 90.18W–.04 28–12 4.4b,3.4s 234 1-137
IDC V 09 08 44 34.0–1.2 13.42N 89.68W 0 4.2,4.0 ¶16709248
ISCJB V 09 08 44 37.6–.56 13.09N–.04 90.11W–.03 47–4 4.3b,3.2s
CASC V 09 08 44 38.0–1.7 13.20N 90.13W 32–7 4.1L,3.2s
NEIC V 09 08 44 39.5–.99 13.15N 90.06W 42–9 4.6,4.4b
MEX V 09 08 44 44.4–.89 13.30N 90.62W 9–145 4.0,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=37.3km s-min=22.5km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.0km az=37.6.
CASC Error ellipse: s-maj=4.9km s-min=6.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=13.4km s-min=8.3km az=216.0. Felt [II] at San Salvador.
MEX Error ellipse: s-maj=111.0km s-min=65.6km az=-1.0.
MEX V 09 22 17 31.0–.44 13.68N 91.90W 15 3.6
¶602597672
MEX Error ellipse: s-maj=5.6km s-min=12.0km az=-1.0.
ISC V 11 03 18 32.3–1.1 13.97N–.09 91.80W–.06 59–9 3.9b 44 1-63
ISCJB V 11 03 18 31.9–.88 14.07N–.09 91.74W–.06 70–8 3.7b ¶16709545
NEIC V 11 03 18 32.5–2.5 14.01N 91.91W 23–22 3.9
MEX V 11 03 18 35.0–.97 13.98N 92.00W 24–27 3.9
IDC V 11 03 18 36.9–8.0 14.43N 91.63W 82–40 3.7,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=17.6km s-min=3.8km az=32.0.
NEIC Event type fe. Error ellipse: s-maj=28.6km s-min=13.0km az=224.0. Felt at Antigua Guatemala, Petapa and Villa Nueva.
MEX Error ellipse: s-maj=9.2km s-min=18.2km az=-1.0.
IDC Error ellipse: s-maj=93.1km s-min=26.2km az=6.0.
ISC V 16 22 12 44.4–2.3 13.4N–.20 91.9W–.10 37 3.9b 10 3-52
IDC V 16 22 12 41.7–5.7 13.84N 91.43W 0 4.0,3.9b ¶602597770
MEX V 16 22 12 42.7–.29 15.70N 90.52W 16–999 4.1,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=101.6km s-min=37.3km az=7.0.
MEX Error ellipse: s-maj=7.4km s-min=15.5km az=-1.0.
MEX V 17 09 55 41.6–.75 13.85N 91.80W 20–633 3.8
¶602597777
MEX Error ellipse: s-maj=470.0km s-min=248.8km az=-1.0.
ISC V 17 15 26 51.6–2.0 13.7N–.20 91.4W–.10 28 10 3-146
IDC V 17 15 26 45.2–3.5 13.39N 91.38W 0 3.9,3.8b ¶17203824
MEX V 17 15 27 02.4–.73 14.09N 91.42W 11–371 4.0,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=64.0km s-min=51.2km az=6.0.
MEX Error ellipse: s-maj=263.1km s-min=163.7km az=-1.0.
MEX V 19 08 29 40.7–.65 13.97N 91.75W 5–176 3.8
¶602597795
MEX Error ellipse: s-maj=132.7km s-min=67.4km az=-1.0.
ISC V 22 17 15 03.8–.44 13.04N–.05 90.67W–.05 24 4.8b,4.2s 522 1-148
ISCJB V 22 17 15 04.9–.24 13.29N–.03 90.53W–.03 33 4.8b,4.2s ¶16535851
CASC V 22 17 15 07.7–1.8 12.96N 90.41W 13–27 4.8b,3.6L
NEIC V 22 17 15 09.6–.75 13.32N 90.42W 61–7 4.8b,3.6L
IDC V 22 17 15 10.5–2.8 13.25N 90.49W 74–23 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.5km az=36.0.
CASC Error ellipse: s-maj=8.7km s-min=23.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.0km az=218.0.
IDC Error ellipse: s-maj=18.9km s-min=9.7km az=36.0.
ISC V 28 15 56 47.7–1.6 13.8N–.10 90.91W–.06 70–18 38 1-7
ISCJB V 28 15 56 46.1–1.0 13.8N–.10 90.92W–.06 89–13 ¶16855443
CASC V 28 15 56 46.5–.70 13.78N 90.94W 72–10 4.2L,3.9
MEX V 28 15 56 48.3–.58 13.70N 90.96W 78–30 4.1,3.9
NEIC V 28 15 56 48.3 13.70N 90.96W 78 4.3,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=19.7km s-min=4.9km az=28.9.
CASC Error ellipse: s-maj=8.7km s-min=5.4km az=-1.0.
MEX Error ellipse: s-maj=9.0km s-min=12.6km az=-1.0.
NEIC Event type fe. Felt [I] at Ahuachapan, El Salvador. After MEX.
ISC V 30 11 14 25.5–.98 13.9N–.10 91.2W–.20 73 3.9b 12 7-146
ISCJB V 30 11 14 24.2–1.2 13.9N–.10 91.2W–.20 73 3.7b ¶17204754
IDC V 30 11 14 29.8–4.9 14.13N 90.93W 106–41 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.4km s-min=18.6km az=150.3.
IDC Error ellipse: s-maj=49.2km s-min=20.0km az=52.0.
MEX V 31 09 23 28.8–.72 13.42N 91.51W 15 3.9
¶602597895
MEX Error ellipse: s-maj=12.8km s-min=30.7km az=-1.0.
MEX VI 01 16 53 01.9–.47 13.92N 91.53W 20 3.7
¶602597902
MEX Error ellipse: s-maj=8.5km s-min=11.8km az=-1.0.
MEX VI 02 04 29 45.7–.53 13.54N 91.13W 18–20 3.7
¶602597906
MEX Error ellipse: s-maj=11.4km s-min=17.6km az=-1.0.
CASC VI 03 21 53 45.6–.88 13.42N 90.01W 46–11 4.0b,3.9
¶16640731
CASC Error ellipse: s-maj=7.7km s-min=5.0km az=-1.0.
MEX VI 06 17 10 15.7–.31 13.61N 91.58W 41–239 3.6
¶602597954
MEX Error ellipse: s-maj=35.7km s-min=30.5km az=-1.0.
MEX VI 08 08 25 58.7–.39 13.88N 91.83W 16–245 3.5
¶602597976
MEX Error ellipse: s-maj=186.6km s-min=88.5km az=-1.0.
MEX VI 09 21 20 38.7–.72 13.84N 91.91W 20 3.6
¶602598001
MEX Error ellipse: s-maj=6.5km s-min=15.0km az=-1.0.
ISC VI 10 04 44 38.7–1.3 13.89N–.08 91.54W–.06 49–18 3.9b 56 2-51
IDC VI 10 04 44 34.9–11 13.17N 92.53W 0 4.3L,4.2 ¶16590029
NEIC VI 10 04 44 37.7–1.1 13.77N 91.52W 35 4.0b,4.0
ISCJB VI 10 04 44 38.5–.80 13.85N–.08 91.51W–.06 61–10 3.8b,4.0
MEX VI 10 04 44 40.6–.73 13.88N 91.77W 20 4.0,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=225.2km s-min=119.2km az=12.0.
NEIC Event type fe. Error ellipse: s-maj=21.9km s-min=10.1km az=207.0. Felt at Chimaltenango, Escuintla, Quetzaltenango and Retalhuleu.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=5.2km az=32.7.
MEX Error ellipse: s-maj=7.4km s-min=13.7km az=-1.0.
CASC VI 10 07 31 48.8–1.4 13.25N 90.19W 27–6 3.7,3.4L
¶602386232
CASC Error ellipse: s-maj=5.7km s-min=6.5km az=-1.0.
MEX VI 10 07 36 30.8–.47 13.82N 91.82W 20 3.5
¶602598010
MEX Error ellipse: s-maj=9.3km s-min=32.3km az=-1.0.
MEX VI 12 02 34 00.6–.85 13.90N 91.84W 20–106 3.8
¶602598037
MEX Error ellipse: s-maj=55.8km s-min=45.5km az=-1.0.
MEX VI 17 01 40 02.7–.71 13.67N 91.62W 10 4.0
¶602598080
MEX Error ellipse: s-maj=21.0km s-min=58.0km az=-1.0.
MEX VI 18 09 50 06.5–.37 13.59N 91.68W 20 3.7
¶602598102
MEX Error ellipse: s-maj=4.6km s-min=10.8km az=-1.0.
CASC VI 18 17 08 16.2–1.9 13.24N 90.27W 16–13 4.4,3.8L
¶602386271
CASC Error ellipse: s-maj=13.6km s-min=9.1km az=-1.0.
ISC VI 23 06 41 54.0–1.6 13.8N–.20 91.6W–.10 61 4.1b 14 2-146
MEX VI 23 06 41 46.8–.64 13.20N 91.70W 15 3.9 ¶17206803
IDC VI 23 06 41 59.9–5.8 14.35N 91.51W 84–34 4.0,3.9
ISC Event type ke.
MEX Error ellipse: s-maj=11.6km s-min=40.3km az=-1.0.
IDC Error ellipse: s-maj=62.4km s-min=31.8km az=162.0.
MEX VI 26 10 40 52.9–.34 13.96N 91.77W 15 3.8
¶602598172
MEX Error ellipse: s-maj=3.9km s-min=7.7km az=-1.0.
MEX VI 26 17 54 15.8–.37 13.53N 90.80W 20–128 4.0
NEIC VI 26 17 54 15.8 13.53N 90.80W 20 4.0 ¶602598175
MEX Error ellipse: s-maj=15.1km s-min=35.2km az=-1.0.
NEIC Event type se. After MEX.
ISC VI 28 15 13 06.0–.96 13.62N–.10 91.01W–.07 62–8 3.8b 45 1-147
ISCJB VI 28 15 13 05.4–.82 13.66N–.08 90.99W–.06 65–10 3.8b ¶17207146
IDC VI 28 15 13 06.4–1.4 13.59N 90.98W 61–6 3.9,3.9
CASC VI 28 15 13 07.6–1.7 13.59N 90.82W 20–9 4.8,4.0L
MEX VI 28 15 13 11.8–.34 13.81N 91.42W 80 4.0,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.3km az=35.1.
IDC Error ellipse: s-maj=37.6km s-min=28.7km az=103.0.
CASC Error ellipse: s-maj=12.9km s-min=9.1km az=-1.0.
MEX Error ellipse: s-maj=13.1km s-min=24.5km az=-1.0.
MEX VI 30 12 45 36.6–.80 13.64N 91.89W 14–999 3.9
¶602598213
MEX Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.

(730) Northern East Pacific Rise.

IDC II 05 13 09 48.4–4.0 7.91N 101.95W 0 3.9,3.7
¶17191740
IDC Error ellipse: s-maj=165.5km s-min=61.4km az=94.0.
IDC III 03 11 42 01.3–8.0 14.76N 104.45W 0 3.7,3.5
¶17193184
IDC Error ellipse: s-maj=163.0km s-min=99.9km az=126.0.
IDC III 12 11 30 29.1–5.4 14.60N 105.13W 0 4.2,3.9
¶17194395
IDC Error ellipse: s-maj=151.3km s-min=29.6km az=37.0.
ISC IV 12 13 21 15.5–1.0 9.8N–.10 104.4W–.20 10 4.4b,3.6s 86 10-131
BJI IV 12 13 21 13.1 9.70N 104.00W 10 5.3s,5.1b ¶16427683
IDC IV 12 13 21 15.2–2.4 9.97N 104.45W 0 4.1,3.9
NEIC IV 12 13 21 17.1–.95 9.93N 104.21W 10 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=106.9km s-min=24.5km az=58.0.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=15.1km az=67.0.
ISC IV 28 13 07 48.0–.26 10.36N–.03 103.63W–.03 35 5.4s,5.3b 871 8-153
IDC IV 28 13 07 41.6–.56 10.16N 103.74W 0 5.4,5.4s ¶16476110
MOS IV 28 13 07 42.2–1.2 10.18N 103.64W 10 5.4b,5.3s
NEIC IV 28 13 07 43.9–.29 10.13N 103.61W 10 5.8W,5.8W
GCMT IV 28 13 07 43.8–.10 10.40N 103.72W 15 5.8W,5.8W
NEIC IV 28 13 07 44.0–.00 10.38N 103.80W 15 5.8W,5.8W
BJI IV 28 13 07 44.7 10.20N 103.60W 12 5.9s,5.7
ISCJB IV 28 13 07 45.4–.21 10.44N–.03 103.54W–.02 33 5.5s,5.2b
ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}0.37 $M_{\theta\theta}$-2.42 $M_{\phi\phi}$2.05 $M_{r\theta}$-0.99 $M_{\theta\phi}$5.82 $M_{\phi r}$-1.32 Best double couple: NP1:ϕ_s168.00000° ,δ79.00000°,λ170.00000°. NP2:ϕ_s260.00000°,δ80.00000°,λ11.00000°. Principal axes: T 6.4900,Plg15.0000°,Azm125.0000°; N -0.0700,Plg75.0000°,Azm302.0000° ; P -6.4200,Plg1.0000°,Azm34.0000° M_o6.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c238; s126,c409;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.40±.05 $M_{\theta\theta}$-2.20±.05; $M_{\phi\phi}$2.59±.06; $M_{r\theta}$-0.28±.15; $M_{\theta\phi}$5.86±.04; $M_{\phi r}$-0.46±.17; Best double couple: NP1:ϕ_s169.00000°,δ87.00000°,λ177.00000°. NP2:ϕ_s259.00000° ,δ87.00000°,λ3.00000°. Principal axes: T 6.5680,Plg4.0000°,Azm124.0000° ; N -0.4370,Plg86.0000°,Azm307.0000°; P -6.1360,Plg0.0000°,Azm214.0000° M_o6.35200×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00 $M_{\theta\theta}$-2.70 $M_{\phi\phi}$2.80 $M_{r\theta}$-4.80 $M_{\theta\phi}$4.60 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s75.00000° ,δ86.00000°,λ-40.00000°. NP2:ϕ_s168.00000°,δ49.00000°,λ-175.00000°. Principal axes: T 6.5000,Plg24.0000°,Azm128.0000°; N 1.3000,Plg49.0000°,Azm251.0000° ; P -7.8000,Plg29.0000°,Azm23.0000° M_o7.00000×10^{17}
ISCJB Event type se.
ISC IV 28 13 12 23.6–.97 10.0N–.10 103.9W–.20 35 4.3b 11 11-123
IDC IV 28 13 12 18.2–.93 10.01N 103.97W 0 4.2,4.0 ¶17202302
ISCJB IV 28 13 12 20.9–1.1 10.0N–.10 103.8W–.20 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC IV 28 13 31 17.6–11 9.36N 102.94W 0 3.8,3.6
¶17202303
IDC Error ellipse: s-maj=370.2km s-min=106.7km az=112.0.
ISC IV 28 15 05 33.5–.86 10.1N–.10 103.6W–.10 35 4.4b,3.9s 75 9-124
IDC IV 28 15 05 27.1–.96 9.95N 104.13W 0 4.2,4.1 ¶16631215
NEIC IV 28 15 05 29.1–.61 9.98N 103.69W 10 4.4b,4.1
ISCJB IV 28 15 05 31.9–.69 10.12N–.08 103.54W–.09 33 4.3b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 06 02 42 56.8–6.0 9.31N 102.93W 0 3.6,3.6L
¶17202893
IDC Error ellipse: s-maj=154.8km s-min=104.2km az=88.0.
ISC V 16 08 41 17.3–1.6 8.3N–.30 103.1W–.50 19 3.6b,3.4s 6 19-123
IDC V 16 08 41 14.3–1.5 8.27N 103.12W 0 3.8,3.7 ¶16528178
ISCJB V 16 08 41 15.5–2.5 8.3N–.40 103.2W–.60 19 3.5s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC V 16 16 12 28.8–.72 8.25N–.09 103.3W–.10 35 4.6b,4.3s 214 10-146
IDC V 16 16 12 22.9–.96 8.11N 103.34W 0 4.3,4.2 ¶16524521
NEIC V 16 16 12 25.2–.43 8.18N 103.35W 10 4.6b,4.2
GCMT V 16 16 12 25.2–.30 8.41N 103.39W 12 5.0W,4.2
ISCJB V 16 16 12 27.4–.56 8.30N–.06 103.25W–.05 33 4.6b,4.2s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c48; s86,c129;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.85±.09 $M_{\theta\theta}$1.84±.09; $M_{\phi\phi}$-0.99±.10; $M_{r\theta}$-0.83±.24; $M_{\theta\phi}$-3.28±.07; $M_{\phi r}$-0.52±.26; Best double couple: NP1:ϕ_s80.00000°,δ80.00000°,λ-163.00000°. NP2:ϕ_s347.00000°,δ73.00000°,λ-10.00000°. Principal axes: T 4.0300,Plg5.0000°,Azm213.0000°; N -0.5790,Plg70.0000°,Azm109.0000° ; P -3.4560,Plg19.0000°,Azm304.0000° M_o3.74300×10^{16}
ISCJB Event type se.
ISC V 16 16 26 06.8–1.1 8.4N–.20 103.4W–.30 35 4.2b,3.7s 20 12-145
IDC V 16 16 26 01.7–.90 8.41N 103.30W 0 4.3,4.0 ¶16528179
NEIC V 16 16 26 03.1–.71 8.32N 103.42W 10 4.3b,4.0
ISCJB V 16 16 26 04.3–1.4 8.3N–.20 103.5W–.30 33 4.1b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 19 16 04 58.9–3.2 10.14N 103.85W 0 4.0,3.8
¶16545172
IDC Error ellipse: s-maj=150.8km s-min=28.5km az=58.0.
IDC V 30 23 13 14.3–3.2 7.97N 103.98W 0 3.9,3.7
¶16554130
IDC Error ellipse: s-maj=128.3km s-min=29.1km az=60.0.
ISC VI 01 22 00 39.7–.69 8.51N–.10 103.2W–.10 35 4.5b,4.0s 74 10-145
IDC VI 01 22 00 34.1–.82 8.34N 103.53W 0 4.4,4.1 ¶16578058
NEIC VI 01 22 00 35.4–.49 8.36N 103.32W 10 4.6b,4.1
ISCJB VI 01 22 00 38.3–.61 8.55N–.08 103.08W–.10 33 4.5b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

SEISMIC REGION 6.
Central America.

(72) Honduras.

ISC I 19 11 20 09.6–.80 13.3N–.10 88.0W–.10 200 3.4b 26 0-139
ISCJB I 19 11 20 08.1–.36 13.26N–.09 88.02W–.07 200 3.4b **¶17190549**
IDC I 19 11 20 10.7–2.5 13.47N 87.84W 196–38 3.7,3.4
CASC I 19 11 20 12.8–2.8 12.25N 88.59W 17–14 4.0,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=4.8km az=35.1.
IDC Error ellipse: s-maj=43.1km s-min=24.9km az=27.0.
CASC Error ellipse: s-maj=10.7km s-min=8.7km az=-1.0.
CASC I 25 09 35 14.0–1.2 14.63N 86.84W 0–5 3.7,3.6L
¶601907547
CASC Error ellipse: s-maj=10.7km s-min=3.9km az=-1.0.
CASC III 27 07 01 32.4–3.3 13.55N 87.75W 17–89 3.5L
¶602003575
CASC Error ellipse: s-maj=79.5km s-min=41.1km az=-1.0.
ISC III 30 22 26 32.1–1.3 15.35N–.03 87.67W–.03 5–9 4.2b,3.0s 100 1-146
IDC III 30 22 26 32.6–.85 15.45N 87.59W 0 4.0,3.9 **¶16401547**
ISCJB III 30 22 26 33.6–1.1 15.52N–.02 87.54W–.03 15–7 4.1b,3.1s
CASC III 30 22 26 36.5–2.8 15.27N 87.68W 0–14 4.5b,4.0L
NEIC III 30 22 26 37.3–1.4 15.26N 87.65W 37–16 4.5b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=23.8km s-min=14.9km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=13.9.
CASC Error ellipse: s-maj=29.1km s-min=11.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.0km s-min=8.4km az=225.0. Felt [III] at El Progreso and San Pedro Sula. Also felt at Quimistan and Villanueva.
ISC IV 07 13 58 48.8–.87 13.2N–.20 87.6W–.10 195–6 38 0-139
ISCJB IV 07 13 58 47.9–.57 13.2N–.10 87.6W–.10 202–5 2.9b **¶17200119**
IDC IV 07 13 58 47.1–3.7 13.25N 87.74W 179–36 3.8,3.4
CASC IV 07 13 58 48.7–1.9 12.79N 87.85W 192–11 4.1,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.1km s-min=4.9km az=37.3.
IDC Error ellipse: s-maj=66.4km s-min=26.1km az=70.0.
CASC Error ellipse: s-maj=23.3km s-min=17.0km az=-1.0.
ISC IV 13 22 12 07.0–2.8 15.45N–.05 87.41W–.10 8–21 27 2-146
ISCJB IV 13 22 12 05.6–1.7 15.49N–.04 87.38W–.10 8–13 3.4b **¶17200956**
IDC IV 13 22 12 07.3–3.0 15.52N 87.51W 0 3.7,3.5L
CASC IV 13 22 12 07.5–1.3 15.42N 87.36W 15 3.9,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=6.1km az=13.3.
IDC Error ellipse: s-maj=52.4km s-min=47.2km az=103.0.
CASC Error ellipse: s-maj=5.8km s-min=8.5km az=-1.0.
ISC VI 11 22 24 36.4–2.7 13.2N–.40 87.7W–.20 35 4.1b 16 17-66
IDC VI 11 22 24 32.2–13 13.30N 87.65W 0 4.4,4.0 **¶17205802**
NEIC VI 11 22 24 33.4–1.4 13.27N 87.69W 10 4.1b,4.0
ISCJB VI 11 22 24 34.7–2.1 13.3N–.40 87.7W–.20 33 4.2b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 14 16 44 39.1–3.8 13.37N 87.25W 0 3.8,3.4
¶17206123
IDC Error ellipse: s-maj=124.9km s-min=71.6km az=60.0.
ISC VI 14 17 10 05.1–.91 13.1N–.20 87.2W–.20 159–13 4.1b 20 1-140
IDC VI 14 17 10 04.1–9.8 13.04N 87.15W 154–73 4.1,3.8 **¶17206126**
CASC VI 14 17 10 06.3–1.7 12.55N 87.54W 152–16 4.4,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=87.6km s-min=56.1km az=142.0.
CASC Error ellipse: s-maj=43.7km s-min=30.6km az=-1.0.
IDC VI 18 23 59 19.6–1.6 14.17N 88.13W 0 3.8,3.5
¶17206497
IDC Error ellipse: s-maj=81.9km s-min=25.4km az=54.0.
IDC VI 19 00 20 56.2–6.5 14.27N 88.68W 0 4.1,3.8
¶17206499
IDC Error ellipse: s-maj=220.2km s-min=36.3km az=33.0.

(73) El Salvador.

ISC I 04 00 49 40.8–.32 13.06N–.04 89.21W–.04 54–2 4.7b,3.9s 838 0-150
NEIC I 04 00 49 41.5 13.06N 89.27W 51 5.3,4.8b **¶15927172**
CASC I 04 00 49 41.5–2.5 13.00N 89.25W 40–42 5.0L,4.8b
IDC I 04 00 49 41.6–.41 13.34N 88.74W 55–2 4.4,4.3
ISCJB I 04 00 49 42.3–.27 13.18N–.03 89.11W–.03 73–2 4.6b,4.3
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Antiguo Cuscatlan and San Salvador and [III] at Mejicanos and Nueva San Salvador. Also felt at Colon, Ilopango, Nuevo Cuscatlan, San Luis la Herradura, Santa Ana, Santiago de Maria, Santiago Nonualco, Santo Tomas and Zacatecoluca. After SNET.
ISCJB Event type fe.
ISC I 05 02 10 32.9–.80 13.02N–.06 89.25W–.06 45–6 3.5b 51 0-148
ISCJB I 05 02 10 32.4–.70 12.95N–.07 89.24W–.05 52–11 3.8s,3.4b **¶17189473**
CASC I 05 02 10 32.9–1.6 12.98N 89.24W 46–20 4.5,4.3L
IDC I 05 02 10 34.4–1.4 13.97N 88.26W 36–5 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=4.4km az=35.7.
CASC Error ellipse: s-maj=6.8km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=44.8km s-min=20.7km az=45.0.
IDC I 12 08 13 14.1–1.4 13.60N 88.37W 208–27 3.8,3.5
¶17189980
IDC Error ellipse: s-maj=48.9km s-min=14.6km az=34.0.
IDC I 12 12 37 14.8–15 13.75N 89.31W 0 3.6,3.5
¶17189994
IDC Error ellipse: s-maj=308.3km s-min=73.7km az=2.0.
CASC I 20 08 17 37.8–.55 13.34N 89.63W 57–9 3.7,3.5L
¶601907412
CASC Error ellipse: s-maj=8.8km s-min=3.4km az=-1.0.
INET I 25 07 28 20.6 13.29N 89.41W 74 3.2
CASC I 25 07 28 20.3–.94 13.06N 89.46W 31–3 3.6L,3.2 **¶601907546**
CASC Error ellipse: s-maj=3.9km s-min=2.6km az=-1.0.
CASC I 26 12 29 34.3–.87 13.13N 89.19W 52–14 3.7,3.4L
¶601907571
CASC Error ellipse: s-maj=9.6km s-min=3.8km az=-1.0.
CASC I 29 12 04 51.5–.88 13.85N 89.67W 5–1 3.5,3.0L
¶601907676
CASC Error ellipse: s-maj=1.6km s-min=1.5km az=-1.0.
ISC I 31 03 50 27.8–.77 13.20N–.06 89.21W–.04 61–5 4.0b 246 0-148
ISCJB I 31 03 50 26.9–.51 13.12N–.06 89.22W–.04 70–2 4.0b **¶15990272**
CASC I 31 03 50 27.9–.84 13.12N 89.24W 48–8 4.2b,4.1L
NEIC I 31 03 50 28.9–1.1 13.14N 89.16W 72–9 4.5,4.2b
IDC I 31 03 50 34.0–4.7 13.44N 88.93W 119–35 3.9,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=3.5km az=29.5.
CASC Error ellipse: s-maj=5.0km s-min=2.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.6km s-min=9.7km az=215.0. Felt [IV] at San Salvador. Also felt at Aguilares, Concepcion de Ataco, Nueva San Salvador, Soyapango and Zaragoza.
IDC Error ellipse: s-maj=39.8km s-min=22.2km az=33.0.
ISC I 31 10 23 02.2–1.9 13.7N–.30 89.5W–.20 66 3.9b 11 6-138
IDC I 31 10 23 01.8–2.6 13.64N 89.45W 62–9 3.8,3.7 **¶17191398**
ISC Event type ke.
IDC Error ellipse: s-maj=53.3km s-min=23.1km az=16.0.
CASC II 14 10 44 27.5–.88 13.10N 89.29W 40–28 3.8L
¶601908165
CASC Error ellipse: s-maj=6.7km s-min=3.5km az=-1.0.
ISC II 16 02 38 31.9–.71 13.06N–.06 89.24W–.05 67–5 4.2b 263 0-138
ISCJB II 16 02 38 32.5–.44 13.11N–.05 89.17W–.04 80–2 4.1b **¶16029608**
NEIC II 16 02 38 32.5–1.1 13.11N 88.84W 74–8 4.3b,4.2
CASC II 16 02 38 34.1–.90 13.13N 89.21W 59–6 4.3b,4.2L
IDC II 16 02 38 37.3–3.0 13.26N 88.84W 113–25 4.1s,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=3.6km az=37.7.
NEIC Event type fe. Error ellipse: s-maj=19.3km s-min=10.6km az=52.0. Felt [III] at San Salvador.
CASC Error ellipse: s-maj=4.8km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=35.0km s-min=17.3km az=49.0.
IDC II 26 05 36 59.8–14 13.04N 89.30W 0 4.1,3.8
¶17192887
IDC Error ellipse: s-maj=279.8km s-min=54.6km az=179.0.
CASC II 27 23 51 48.0–1.4 13.17N 89.94W 21–8 3.7,3.6L
¶601908566
CASC Error ellipse: s-maj=7.2km s-min=4.4km az=-1.0.
ISC III 01 21 46 42.1–.57 13.52N–.06 88.38W–.05 207–4 4.4b 100 0-139
BJI III 01 21 46 41.2 13.50N 88.50W 199 5.1b **¶16173030**
ISCJB III 01 21 46 41.8–.27 13.57N–.05 88.35W–.04 214–2 4.2b
NEIC III 01 21 46 42.0–.76 13.56N 88.45W 199–7 4.7b
IDC III 01 21 46 42.1–1.2 13.72N 88.14W 206–14 4.0,3.6
CASC III 01 21 46 42.2–3.6 12.09N 89.03W 0–7 4.7b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=4.3km az=35.7.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=10.2km az=213.0.
IDC Error ellipse: s-maj=23.0km s-min=9.3km az=56.0.
CASC Error ellipse: s-maj=10.4km s-min=11.2km az=-1.0.
IDC III 05 00 10 50.8–14 13.31N 88.58W 0 3.7,3.5
¶17193252
IDC Error ellipse: s-maj=289.4km s-min=100.5km az=3.0.
CASC III 08 01 01 54.4–.84 13.19N 89.60W 54–19 3.7,3.5L
¶602002761
CASC Error ellipse: s-maj=11.8km s-min=4.2km az=-1.0.
IDC III 13 13 58 39.6–5.5 13.79N 89.07W 67–95 3.4,3.4
¶17194887
IDC Error ellipse: s-maj=148.6km s-min=31.8km az=32.0.
ISC III 14 11 45 41.2–.64 13.32N–.05 89.98W–.05 62–5 4.4b 299 0-147
BJI III 14 11 45 40.9 13.40N 89.80W 75 4.4b **¶16477682**
ISCJB III 14 11 45 41.1–.46 13.39N–.04 89.83W–.04 73–3 4.4b
CASC III 14 11 45 41.3–2.0 13.27N 89.88W 30–9 4.6b,4.6
IDC III 14 11 45 42.3–.92 13.44N 89.72W 67–7 4.1,4.0
NEIC III 14 11 45 42.3–1.2 13.29N 89.91W 66–11 4.6,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=3.4km az=44.5.
CASC Error ellipse: s-maj=8.4km s-min=7.8km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=10.6km az=53.0.
NEIC Event type fe. Error ellipse: s-maj=13.4km s-min=6.7km az=55.0. Felt [III] at San Salvador. Also felt at Antiguo Cuscatlan, Juayua and San Antonio del Monte.
ISC IV 15 00 12 58.3–1.9 13.13N–.08 89.74W–.05 25–13 33 1-147
CASC IV 15 00 12 59.6–1.2 13.23N 89.72W 32–3 3.6L **¶17201075**
IDC IV 15 00 13 10.4–3.1 13.85N 89.08W 138–28 3.8s,3.8
ISC Event type ke.
CASC Error ellipse: s-maj=4.6km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=58.5km s-min=26.8km az=59.0.
ISC IV 25 10 30 43.3–1.2 13.22N–.09 89.51W–.07 60–10 3.8b 46 0-147
ISCJB IV 25 10 30 41.8–.71 13.17N–.07 89.57W–.06 68–7 3.7b **¶17202040**
CASC IV 25 10 30 41.8–1.6 13.09N 89.59W 25–11 3.6L
IDC IV 25 10 30 45.5–2.4 13.32N 89.32W 82–19 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=5.1km az=37.9.
CASC Error ellipse: s-maj=7.6km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=43.4km s-min=19.0km az=34.0.
CASC IV 26 02 23 15.6–1.2 13.19N 89.70W 33–3 3.8,3.6L
¶602385207
CASC Error ellipse: s-maj=2.9km s-min=4.9km az=-1.0.
CASC IV 26 05 31 12.2–1.4 13.07N 89.35W 35–999 3.7,3.1L
¶602385209
CASC Error ellipse: s-maj=7.3km s-min=4.9km az=-1.0.
ISC IV 29 05 47 08.0–2.0 13.21N–.07 89.96W–.08 29–15 3.8b 38 1-86
IDC IV 29 05 46 58.7–6.1 13.20N 89.18W 0 3.9,3.6 **¶17202350**
CASC IV 29 05 47 09.3–.91 13.22N 89.91W 34–16 3.7L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=133.2km s-min=44.6km az=8.0.
CASC Error ellipse: s-maj=4.3km s-min=8.2km az=-1.0.
ISC IV 30 21 46 54.6–.84 13.18N–.06 89.74W–.05 64–6 4.5b 394 1-147
ISCJB IV 30 21 46 53.4–.41 13.12N–.03 89.69W–.03 65–3 4.4b **¶16485940**
CASC IV 30 21 46 53.3–1.5 13.13N 89.75W 30–6 4.5b,4.3L
NEIC IV 30 21 46 55.6–.65 13.19N 89.66W 69–6 4.7W,4.5b
IDC IV 30 21 47 00.1–2.2 13.49N 89.28W 105–19 4.3,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.1km az=36.9.
CASC Error ellipse: s-maj=5.5km s-min=5.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.6km az=215.0. Felt [III] at San Salvador. Also felt at Santo Tomas. Felt at Guatemala, Guatemala. Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ69.00000°,λ-72.00000°. NP2:ϕ_s112.00000° ,δ28.00000°,λ-128.00000°. Principal axes: T 1.3000,Plg22.0000°,Azm51.0000° ; N -0.2300,Plg17.0000°,Azm147.0000°; P -1.0700,Plg62.0000°,Azm272.0000°
IDC Error ellipse: s-maj=20.7km s-min=10.1km az=52.0.
CASC V 14 04 59 53.6–43 13.91N 89.94W 0–78 3.5,3.3L
¶602385645
CASC Error ellipse: s-maj=151.9km s-min=118.9km az=-1.0.
ISC V 16 06 28 35.0–1.1 13.22N–.09 89.24W–.06 63–8 3.9b 57 0-138
ISCJB V 16 06 28 34.7–.58 13.21N–.08 89.23W–.05 70–5 3.7b **¶17203728**
CASC V 16 06 28 36.1–3.5 13.22N 89.19W 55–22 4.2L,4.0
IDC V 16 06 28 38.0–6.8 13.31N 89.08W 95–39 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=3.7km az=31.4.
CASC Error ellipse: s-maj=18.1km s-min=10.7km az=-1.0.
IDC Error ellipse: s-maj=69.0km s-min=48.6km az=155.0.
ISC V 17 01 01 33.4–.89 13.24N–.06 89.61W–.05 62–7 4.3b 120 1-147
ISCJB V 17 01 01 32.6–.50 13.21N–.04 89.63W–.04 64–4 4.2b **¶16523249**
CASC V 17 01 01 33.7–5.9 13.24N 89.60W 55–47 4.5,4.2L
NEIC V 17 01 01 35.3–.83 13.34N 89.51W 70–8 4.4,4.4b
IDC V 17 01 01 35.5–3.2 13.60N 89.34W 66–30 4.2L,4.1s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=3.2km az=40.2.
CASC Error ellipse: s-maj=24.1km s-min=20.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.2km az=220.0. Felt [III] at San Salvador. Also felt at El Rosario, Ilopango, La Herradura and Zaragoza.
IDC Error ellipse: s-maj=35.7km s-min=13.5km az=56.0.
IDC V 25 11 40 56.7–9.2 13.58N 88.62W 131–54 3.7,3.6
¶17204448
IDC Error ellipse: s-maj=88.3km s-min=61.2km az=2.0.
ISC VI 18 17 11 36.4–1.0 13.05N–.06 89.46W–.06 10 37 1-148
ISCJB VI 18 17 11 37.0–.95 12.89N–.05 89.44W–.06 10 3.6b,2.9s **¶17206475**
CASC VI 18 17 11 41.1–2.2 13.13N 89.36W 48–24 4.5L,4.4
IDC VI 18 17 11 50.0–9.8 13.71N 88.89W 132–63 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=3.9km az=147.0.
CASC Error ellipse: s-maj=12.7km s-min=10.2km az=-1.0.
IDC Error ellipse: s-maj=100.9km s-min=58.1km az=22.0.

(74) Near coast of Nicaragua.

ISC I 05 18 31 43.8–.64 11.43N–.05 86.52W–.05 45–5 5.0b,4.5s 856 1-165
IDC I 05 18 31 37.5–.38 11.57N 86.41W 0 4.7,4.6 **¶15906146**
MOS I 05 18 31 42.8–1.2 11.54N 86.34W 51 4.8b,4.6
ISCJB I 05 18 31 42.4–.44 11.46N–.03 86.56W–.03 50–3 4.9b,4.5s
CASC I 05 18 31 43.4–.78 11.28N 86.86W 34–279 5.1b,4.1L
GCMT I 05 18 31 44.2–.30 10.88N 87.19W 20–0 5.1W,4.1L
NEIC I 05 18 31 44.2–.75 11.34N 86.63W 49–6 5.1b,4.1L
BJI I 05 18 31 45.9 11.40N 86.60W 64 5.3b,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=20.4km s-min=9.0km az=54.0.
MOS Error ellipse: s-maj=15.0km s-min=7.8km az=121.4.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=2.8km az=34.7.
CASC Error ellipse: s-maj=140.1km s-min=104.4km az=-1.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c78; s94,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.71±.16 $M_{\theta\theta}$-2.59±.12; $M_{\phi\phi}$-1.12±.12; $M_{r\theta}$2.77±.22; $M_{\theta\phi}$1.87±.08; $M_{\phi r}$-2.44±.25; Best double couple: NP1:ϕ_s129.00000°,δ67.00000° ,λ94.00000°. NP2:ϕ_s299.00000°,δ23.00000°,λ80.00000°. Principal axes: T 5.2270,Plg68.0000°,Azm47.0000°; N 0.1240,Plg4.0000°,Azm308.0000° ; P -5.3510,Plg22.0000°,Azm216.0000° M_o5.28900×10^{16}

NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=3.7km az=214.0. Felt at San Salvador, El Salvador and at Nandayure, Costa Rica.

ISC	**I**	**05 19 01 55.3–.53**	**12.23N–.08**	**87.87W–.08**	**39–4**	**4.4b**	**68**	**1-149**
ISCJB	I	05 19 01 54.5–.60	12.21N–.06	87.86W–.07	50–5	4.3b		**¶16031115**
CASC	I	05 19 01 54.8–1.9	12.24N	87.87W	44–225	4.6b,4.2		
IDC	I	05 19 01 54.7–3.5	12.32N	87.78W	33–28	4.2,4.1		
NEIC	I	05 19 01 56.8–1.2	12.26N	87.79W	56–11	4.6b,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=3.7km az=138.9.
CASC Error ellipse: s-maj=27.0km s-min=20.2km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=11.9km az=56.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=6.8km az=56.0.

CASC	**I**	**05 19 33 37.2–1.3**	**11.31N**	**86.63W**	**102–25**	**3.6,3.1L**		

¶601907002

CASC Error ellipse: s-maj=19.4km s-min=23.0km az=-1.0.

ISC	**I**	**05 19 48 35.7–1.0**	**11.9N–.40**	**86.3W–.40**	**35**		**7**	**2-149**
IDC	I	05 19 48 31.2–1.3	12.13N	86.14W	0	3.7,3.4		**¶17189533**

ISC Event type ke.
IDC Error ellipse: s-maj=102.3km s-min=14.6km az=55.0.

ISC	**I**	**07 18 39 11.5–.90**	**11.47N–.08**	**87.22W–.09**	**49**	**3.5b**	**24**	**1-150**
IDC	I	07 18 39 07.4–1.6	12.02N	86.77W	0	3.8,3.6		**¶17189653**
CASC	I	07 18 39 08.6–9.7	11.35N	87.40W	69–260	4.5,3.6		
ISCJB	I	07 18 39 09.5–.78	11.39N–.06	87.31W–.06	49	3.5b,3.6		

ISC Event type ke.
ISCJB Event type ke.

CASC	**I**	**07 19 39 43.8–10**	**11.39N**	**87.46W**	**15**	**4.0**		

¶601907070

CASC Error ellipse: s-maj=35.4km s-min=38.0km az=-1.0.

ISC	**I**	**08 04 48 43.1–.84**	**12.55N–.10**	**87.1W–.10**	**174–7**	**3.8b**	**25**	**0-140**
ISCJB	I	08 04 48 44.2–.72	12.6N–.10	87.1W–.10	171–7	3.5b		**¶17189670**
IDC	I	08 04 48 44.4–1.9	12.86N	86.82W	174–36	3.9s,3.9		
CASC	I	08 04 48 45.5–3.1	12.38N	87.09W	163–19	4.1,3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.4km s-min=7.9km az=137.9.
IDC Error ellipse: s-maj=58.4km s-min=27.1km az=35.0.
CASC Error ellipse: s-maj=19.2km s-min=26.4km az=-1.0.

IDC	**I**	**09 14 18 30.3–1.5**	**11.96N**	**86.21W**	**0**	**3.6,3.4**		

¶17189770

IDC Error ellipse: s-maj=94.2km s-min=23.5km az=52.0.

ISC	**I**	**09 14 52 09.3–1.4**	**11.05N–.06**	**86.97W–.07**	**49–14**	**3.7s,3.6b**	**35**	**1-150**
IDC	I	09 14 52 05.9–1.3	11.81N	86.34W	0	4.0,3.7		**¶17189773**
CASC	I	09 14 52 06.9–2.8	11.01N	86.97W	17–12	4.2,3.0L		
ISCJB	I	09 14 52 07.4–.80	10.98N–.06	87.05W–.06	49–10	3.6s,3.5b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**09 14 55 30.8–.91**	**11.8N–.30**	**86.2W–.30**	**35**	**3.2b**	**11**	**2-149**
IDC	I	09 14 55 26.6–1.1	12.09N	85.98W	0	3.7,3.5		**¶17189774**
ISCJB	I	09 14 55 28.5–.95	11.8N–.30	86.3W–.30	33	3.2b,3.5		

ISC Event type ke.
ISCJB Event type ke.

CASC	**I**	**09 15 05 06.1–1.6**	**11.13N**	**86.85W**	**80–28**	**4.0,2.1L**		

¶601907144

CASC Error ellipse: s-maj=8.8km s-min=10.1km az=-1.0.

CASC	**I**	**09 18 57 44.0–1.6**	**12.14N**	**87.91W**	**27–12**	**3.8**		

¶601907145

CASC Error ellipse: s-maj=9.2km s-min=5.7km az=-1.0.

ISC	**I**	**11 06 28 02.2–.68**	**11.18N–.10**	**86.91W–.09**	**35**	**4.1b**	**37**	**1-150**
IDC	I	11 06 27 56.8–.70	11.38N	86.67W	0	4.2,3.9		**¶16151048**
ISCJB	I	11 06 27 59.5–.47	11.06N–.06	87.02W–.06	35	4.0b,3.9		
CASC	I	11 06 28 01.0–2.4	11.07N	87.05W	36–999	4.4,4.2b		
NEIC	I	11 06 28 02.0–.87	11.35N	86.70W	38–9	4.2b,4.2b		

ISC Event type se.
IDC Error ellipse: s-maj=34.0km s-min=13.1km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=4.1km az=43.3.
CASC Error ellipse: s-maj=20.0km s-min=18.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=6.3km az=223.0.

IDC	**I**	**12 07 46 36.5–1.6**	**12.73N**	**87.74W**	**0**	**4.0,3.8**		

¶17189977

IDC Error ellipse: s-maj=55.8km s-min=19.7km az=47.0.

CASC	**I**	**16 09 57 58.5–2.2**	**11.02N**	**86.44W**	**20–9**	**4.1**		

¶601907313

CASC Error ellipse: s-maj=6.1km s-min=8.9km az=-1.0.

CASC	**I**	**16 13 18 59.9–2.2**	**12.04N**	**87.96W**	**21–17**	**3.5**		

¶601907314

CASC Error ellipse: s-maj=21.1km s-min=10.9km az=-1.0.

ISC	**I**	**17 01 02 59.9–1.6**	**12.3N–.30**	**88.0W–.30**	**50**	**3.5b**	**9**	**4-149**
ISCJB	I	17 01 02 58.9–1.5	12.4N–.30	87.9W–.30	50	3.6b		**¶17190360**
IDC	I	17 01 02 59.7–6.7	12.51N	87.98W	33–55	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=53.2km s-min=8.9km az=44.5.
IDC Error ellipse: s-maj=57.2km s-min=28.5km az=41.0.

ISC	**I**	**20 20 15 24.5–.54**	**11.59N–.06**	**87.33W–.06**	**39–3**	**4.4b,3.5s**	**63**	**1-150**
IDC	I	20 20 15 19.8–.78	11.87N	86.98W	0	4.3,4.1		**¶16151970**
ISCJB	I	20 20 15 23.6–.68	11.54N–.05	87.36W–.05	53–6	4.3b,3.7s		
CASC	I	20 20 15 23.5–1.9	11.57N	87.39W	62–59	4.5b,4.4		
NEIC	I	20 20 15 25.4–1.1	11.71N	87.14W	44–10	4.5b,4.4		

ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=15.3km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=3.9km az=44.7.
CASC Error ellipse: s-maj=15.6km s-min=13.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=7.8km az=223.0.

ISC	**I**	**21 17 18 18.8–.29**	**11.64N–.04**	**86.21W–.04**	**91–2**	**5.0b**	**922**	**0-153**
IDC	I	21 17 18 18.5–.43	11.84N	86.00W	86–3	4.7,4.5		**¶15954513**
BJI	I	21 17 18 18.8	11.60N	86.30W	94	5.2b,4.5		
ISCJB	I	21 17 18 18.7–.23	11.67N–.02	86.25W–.02	101–2	4.9b,4.5		
CASC	I	21 17 18 19.2–.90	11.55N	86.34W	74–5	5.1b,5.1L		
MOS	I	21 17 18 19.4–1.0	11.61N	86.16W	111	5.1b,5.1L		
NEIC	I	21 17 18 19.5–.22	11.58N	86.29W	94	5.2,5.1b		
GCMT	I	21 17 18 19.5–.20	11.61N	86.47W	83–1	5.3W,5.1b		

ISC Event type fe.
IDC Error ellipse: s-maj=15.7km s-min=7.8km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=34.5.
CASC Error ellipse: s-maj=2.5km s-min=2.2km az=-1.0.
MOS Error ellipse: s-maj=11.2km s-min=5.0km az=115.2.

NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.2km az=209.0. Felt [IV] at Managua and Tola, [III] at Masaya and Ticuantepe and [II] at Granada, Leon and San Juan del Sur. Also felt at Catarina, Ciudad Sandino, Diriamba, Jinotepe, La Paz Centro, Moyogalpa, Potosi, Rivas and San Marcos. Felt [II] at Sardinal, Costa Rica. Also felt at Belen, Liberia and Santa Cruz. Felt [II] at San Salvador, El Salvador.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c90; s110,c182; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.62±.20 $M_{\theta\theta}$0.03±.20; $M_{\phi\phi}$-1.65±.23; $M_{r\theta}$1.69±.11; $M_{\theta\phi}$-7.66±.18; $M_{\phi r}$-5.01±.12; Best double couple: NP1:ϕ_s180.00000°,δ80.00000° ,λ34.00000°. NP2:ϕ_s83.00000°,δ57.00000°,λ168.00000°. Principal axes: T 9.6580,Plg31.0000°,Azm47.0000°; N -0.4330,Plg55.0000°,Azm195.0000° ; P -9.2270,Plg15.0000°,Azm307.0000° M_o9.44300×10^{16}

CASC	**I**	**21 18 36 58.8–.95**	**11.56N**	**86.33W**	**78–7**	**4.0,3.9L**		

¶601907441

CASC Error ellipse: s-maj=3.5km s-min=4.1km az=-1.0.

CASC	**I**	**26 03 47 46.8–1.6**	**12.34N**	**87.59W**	**52–22**	**3.5,2.4L**		

¶601907570

CASC Error ellipse: s-maj=9.4km s-min=6.5km az=-1.0.

CASC	**I**	**27 12 58 28.1–.34**	**12.23N**	**87.58W**	**67–25**	**4.3**		

¶601907596

CASC Error ellipse: s-maj=13.8km s-min=14.3km az=-1.0.

ISC	**I**	**27 18 10 47.0–.94**	**11.06N–.07**	**86.84W–.07**	**36–2**	**3.7b**	**43**	**1-150**
CASC	I	27 18 10 42.7–3.0	10.87N	86.96W	10	4.2		**¶17191137**
IDC	I	27 18 10 43.6–.72	11.83N	86.03W	0	4.1,3.8		

ISC Event type ke.
CASC Error ellipse: s-maj=7.6km s-min=7.4km az=-1.0.
IDC Error ellipse: s-maj=64.7km s-min=11.0km az=56.0.

ISC	**I**	**27 19 01 31.4–.83**	**11.08N–.06**	**86.76W–.10**	**35**	**3.4b**	**24**	**1-150**
IDC	I	27 19 01 27.6–1.1	11.69N	86.18W	0	3.7,3.5		**¶17191141**
ISCJB	I	27 19 01 29.9–.75	11.06N–.05	86.84W–.07	35	3.3b,3.5		
CASC	I	27 19 01 30.5–4.4	11.05N	86.79W	36–999	3.9,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=75.4km s-min=12.3km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.7km az=145.3.
CASC Error ellipse: s-maj=35.1km s-min=46.3km az=-1.0.

ISC	**I**	**27 19 03 27.5–.50**	**11.08N–.06**	**86.79W–.07**	**30**	**4.2b,3.7s**	**62**	**1-150**
CASC	I	27 19 03 24.3–1.9	11.02N	86.87W	0–10	4.5,4.4b		**¶16135984**
IDC	I	27 19 03 24.5–.65	11.74N	86.09W	0	4.3,4.1		
ISCJB	I	27 19 03 26.2–.43	11.01N–.05	86.88W–.05	30	4.2b,3.6s		
NEIC	I	27 19 03 29.2–1.1	11.35N	86.47W	41–10	4.4b,3.6s		

ISC Event type se.
CASC Error ellipse: s-maj=9.0km s-min=8.2km az=-1.0.
IDC Error ellipse: s-maj=50.6km s-min=12.0km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=3.8km az=42.3.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=7.1km az=50.0.

ISC	**I**	**29 20 32 35.0–.67**	**11.66N–.05**	**86.39W–.05**	**74–6**	**3.7b**	**69**	**0-140**
ISCJB	I	29 20 32 35.1–.32	11.67N–.04	86.40W–.04	81–4	3.7b		**¶17191270**
CASC	I	29 20 32 35.5–2.0	11.61N	86.43W	61–15	4.2,3.9L		
IDC	I	29 20 32 35.2–.76	11.76N	86.14W	75–6	3.8,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=3.1km az=41.6.
CASC Error ellipse: s-maj=5.7km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=31.1km s-min=7.1km az=57.0.

ISC	**I**	**30 10 48 44.7–1.3**	**12.0N–.30**	**87.3W–.20**	**49**	**3.3b**	**7**	**3-139**
IDC	I	30 10 48 42.5–2.7	11.70N	87.15W	51–39	3.5,3.3		**¶17191314**
ISCJB	I	30 10 48 43.3–1.3	11.9N–.20	87.3W–.20	49	3.2b,3.3		

ISC Event type ke.
ISCJB Event type ke.

CASC	**II**	**01 18 32 32.8–2.4**	**11.56N**	**87.43W**	**24–16**	**3.9**		

¶601907765

CASC Error ellipse: s-maj=10.5km s-min=9.2km az=-1.0.

CASC	**II**	**04 16 46 54.5–1.0**	**12.35N**	**87.60W**	**43–36**	**3.5,3.1L**		

¶601907843

CASC Error ellipse: s-maj=4.5km s-min=3.0km az=-1.0.

CASC	**II**	**05 12 12 40.5–1.5**	**12.41N**	**87.26W**	**15**	**3.6,2.4L**		

¶601907867

CASC Error ellipse: s-maj=7.0km s-min=3.6km az=-1.0.

ISC	**II**	**06 10 08 33.6–.98**	**12.29N–.06**	**87.93W–.05**	**60–8**	**4.4b**	**365**	**1-149**
IDC	II	06 10 08 26.3–1.1	12.51N	87.50W	0	4.2,4.0		**¶16024687**
CASC	II	06 10 08 30.2–1.7	12.18N	88.00W	23–6	4.5b,4.2		
ISCJB	II	06 10 08 31.7–.46	12.22N–.04	87.91W–.03	61–3	4.3b,4.2		
BJI	II	06 10 08 32.3	12.40N	87.70W	70	4.9,4.2		
NEIC	II	06 10 08 35.3–.72	12.37N	87.68W	70–6	4.5b,4.2		

ISC Event type fe.
IDC Error ellipse: s-maj=36.9km s-min=21.7km az=52.0.
CASC Error ellipse: s-maj=4.5km s-min=3.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=3.3km az=35.9.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=6.5km az=225.0. Felt at San Salvador, El Salvador.

CASC	**II**	**12 08 13 00.0–1.4**	**12.71N**	**87.30W**	**0–5**	**3.7,1.9L**		

¶601908106

CASC Error ellipse: s-maj=6.3km s-min=4.1km az=-1.0.

CASC	**II**	**21 07 17 45.9–2.3**	**12.07N**	**87.79W**	**22–9**	**3.7,2.9L**		

¶601908389

CASC Error ellipse: s-maj=10.4km s-min=7.3km az=-1.0.

CASC	**II**	**21 08 15 04.9–1.8**	**11.99N**	**87.86W**	**36–999**	**3.7,2.5L**		

¶601908391

CASC Error ellipse: s-maj=13.7km s-min=8.3km az=-1.0.

ISC	**II**	**23 03 01 38.4–.39**	**12.57N–.03**	**87.69W–.03**	**60–3**	**5.3b,5.0s**	**1137**	**1-163**
MOS	II	23 03 01 33.4–1.4	12.42N	87.74W	33	5.6b,4.7s		**¶16117338**
GCMT	II	23 03 01 36.4–.10	12.30N	88.08W	51–0	5.6W,4.7s		
NEIC	II	23 03 01 36.4–.24	12.39N	87.82W	41	5.7,5.7W		
IDC	II	23 03 01 36.2–1.5	12.86N	87.16W	37–11	4.8,4.8		
CASC	II	23 03 01 37.7–2.0	12.48N	87.78W	56–26	5.5b,5.3L		
ISCJB	II	23 03 01 37.9–.23	12.54N–.02	87.72W–.02	71–2	5.2b,5.3L		
BJI	II	23 03 01 40.1	12.50N	87.70W	64	5.5s,5.4		

ISC Event type fe.
MOS Error ellipse: s-maj=11.8km s-min=4.9km az=110.1.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c241; s119,c299;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.34±.04 $M_{\theta\theta}$-2.69±.03; $M_{\phi\phi}$-0.64±.04; $M_{r\theta}$0.38±.03; $M_{\theta\phi}$1.76±.03; $M_{\phi r}$-0.33±.03; Best double couple: NP1: ϕ_s122.00000°,δ49.00000°,λ92.00000°. NP2:ϕ_s298.00000°,δ41.00000°,λ87.00000°. Principal axes: T 3.3770,Plg86.0000°,Azm54.0000°; N 0.3660,Plg2.0000°,Azm300.0000° ; P -3.7370,Plg4.0000°,Azm210.0000° M_o3.55700×10^{17}

NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=210.0. Felt [IV] at Chinandega, [III] at Leon and [II] at Managua. Felt widely in the Chinandega-Managua area and as far as Bonanza. Felt [III] at San Salvador and [II] at Concepcion de Ataco and Mejicanos, El Salvador. Felt in much of El Salvador and at Ciudad Choluteca, Honduras. Moment Tensor Solution. s55 Moment tensor: Scale 10^{17}Nm; M_{rr}3.67 $M_{\theta\theta}$-1.27 $M_{\phi\phi}$-2.40 $M_{r\theta}$0.16 $M_{\theta\phi}$2.34 $M_{\phi r}$-0.23 Best double couple: NP1:ϕ_s142.00000°,δ47.00000°,λ90.00000°. NP2:ϕ_s321.00000° ,δ43.00000°,λ89.00000°. Principal axes: T 3.6800,Plg88.0000°,Azm62.0000° ; N 0.5700,Plg0.0000°,Azm322.0000°; P -4.2500,Plg2.0000°,Azm232.0000° M_o4.00000×10^{17}

IDC Error ellipse: s-maj=18.7km s-min=8.2km az=55.0.
CASC Error ellipse: s-maj=9.0km s-min=5.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.0km az=36.2.

CASC	**II**	**26 06 59 58.8–1.5**	**12.43N**	**87.85W**	**49–37**	**3.6,3.0L**		

¶601908534

CASC Error ellipse: s-maj=10.7km s-min=6.7km az=-1.0.

CASC	**II**	**27 11 26 38.1–1.5**	**12.19N**	**87.82W**	**102–31**	**3.6**		

¶601908564

CASC Error ellipse: s-maj=23.6km s-min=12.8km az=-1.0.

CASC	**II**	**27 18 04 04.6–1.4**	**12.23N**	**87.61W**	**51–51**	**3.6,3.3L**		

¶601908565

CASC Error ellipse: s-maj=18.8km s-min=12.2km az=-1.0.

ISC	**II**	**28 09 36 55.0–.97**	**11.24N–.06**	**86.70W–.06**	**45–9**	**4.5b,3.6s**	**425**	**1-150**
IDC	II	28 09 36 49.9–.70	11.57N	86.44W	0	4.4,4.2		**¶16165896**
CASC	II	28 09 36 54.7–1.4	11.21N	86.77W	32–8	4.7,4.5b		
ISCJB	II	28 09 36 55.4–.46	11.31N–.04	86.60W–.04	69–3	4.5b,4.5b		
NEIC	II	28 09 36 57.2–.90	11.35N	86.61W	57–8	4.6b,4.5b		
BJI	II	28 09 36 59.4	11.30N	86.70W	80	5.4s,5.3b		

ISC Event type se.
IDC Error ellipse: s-maj=37.4km s-min=11.7km az=47.0.
CASC Error ellipse: s-maj=6.3km s-min=5.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.5km az=39.2.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=6.1km az=47.0.

CASC	**II**	**28 11 17 58.3–1.5**	**12.33N**	**87.76W**	**57–30**	**3.7**		

¶601908600

CASC Error ellipse: s-maj=12.9km s-min=8.8km az=-1.0.

IDC	**III**	**02 07 17 58.4–11**	**12.37N**	**87.83W**	**0**	**3.5,3.3**		

¶17193114

IDC Error ellipse: s-maj=317.3km s-min=99.3km az=23.0.

IDC	**III**	**03 02 19 26.1–2.1**	**12.78N**	**87.12W**	**0**	**3.8,3.5**		

¶17193168

IDC Error ellipse: s-maj=69.2km s-min=27.8km az=50.0.

ISC	**III**	**04 09 09 40.6–.97**	**11.63N–.06**	**87.52W–.05**	**50–10**	**4.5b,3.2s**	**276**	**1-149**
IDC	III	04 09 09 34.9–.89	11.95N	87.26W	0	4.2,4.1		**¶16194036**
CASC	III	04 09 09 39.8–1.2	11.68N	87.53W	51–62	4.6b,4.3		
ISCJB	III	04 09 09 40.1–.50	11.72N–.05	87.42W–.04	59–3	4.4b,3.5s		
NEIC	III	04 09 09 41.4–.66	11.76N	87.36W	51–6	4.6b,3.5s		

ISC Event type se.
IDC Error ellipse: s-maj=35.8km s-min=13.0km az=49.0.
CASC Error ellipse: s-maj=8.3km s-min=6.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=3.9km az=40.1.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=4.8km az=49.0.
CASC III 05 04 18 21.5–1.2 12.46N 87.54W 84–10 3.8,3.4L ¶602002629

CASC Error ellipse: s-maj=7.0km s-min=5.0km az=-1.0.
CASC III 07 10 36 22.3–2.1 11.68N 86.56W 66–12 4.0,3.5L ¶602002694

CASC Error ellipse: s-maj=6.7km s-min=6.3km az=-1.0.
ISC III 08 16 09 59.1–.82 11.56N–.07 87.32W–.05 37 3.3b 26 1-150
IDC III 08 16 09 51.7–1.6 11.77N 86.33W 0 3.8,3.6 **¶17193477**
ISCJB III 08 16 09 57.1–.74 11.47N–.07 87.40W–.05 37 3.3b,2.4s
CASC III 08 16 09 57.7–3.2 11.48N 87.39W 36–999 4.1,2.4s
ISC Event type ke.
IDC Error ellipse: s-maj=123.0km s-min=23.7km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.5km az=33.7.
CASC Error ellipse: s-maj=26.1km s-min=20.8km az=-1.0.
CASC III 10 03 24 47.0–2.1 11.63N 86.36W 106–16 3.8 ¶602002890

CASC Error ellipse: s-maj=9.2km s-min=11.3km az=-1.0.
ISC III 11 16 54 50.5–.43 12.20N–.05 87.69W–.04 48 4.8b 456 1-149
CASC III 11 16 54 49.6–1.9 12.14N 87.76W 48–99 4.8b,4.7 **¶16449447**
ISCJB III 11 16 54 49.2–.24 12.26N–.03 87.66W–.03 48 4.7b,4.7
NEIC III 11 16 54 51.4–.37 12.27N 87.63W 54 4.8b,4.7
IDC III 11 16 54 53.0–2.3 12.40N 87.34W 62–20 4.6,4.6
BJI III 11 16 54 52.9 12.30N 87.50W 64 4.6,4.6
ISC Event type fe.
CASC Error ellipse: s-maj=13.0km s-min=8.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.2km az=37.3.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=4.7km az=221.0. Felt [II] at Managua. Also felt at Chinandega. Felt [I] at La Union, El Salvador.
IDC Error ellipse: s-maj=30.1km s-min=11.9km az=50.0.
ISC III 11 16 57 49.1–1.1 12.04N–.06 87.84W–.05 55–10 4.6b 74 1-149
ISCJB III 11 16 57 47.5–.53 11.97N–.05 87.87W–.04 55–5 4.5b **¶16445707**
CASC III 11 16 57 48.0–2.0 11.98N 87.88W 35–14 4.6b,4.6
IDC III 11 16 57 49.0–2.4 12.12N 87.67W 47–26 4.3,4.3
NEIC III 11 16 57 50.6–1.3 12.12N 87.71W 67–12 4.8,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=3.7km az=37.8.
CASC Error ellipse: s-maj=6.5km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=38.4km s-min=19.5km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=20.7km s-min=12.1km az=224.0. Felt [I] at La Union, El Salvador.
CASC III 14 23 12 29.1–1.4 11.64N 87.90W 36–999 3.9,3.1L ¶602003050

CASC Error ellipse: s-maj=31.1km s-min=17.3km az=-1.0.
IDC III 20 11 44 28.2–1.5 11.94N 86.38W 0 3.7,3.5 ¶17197453

IDC Error ellipse: s-maj=98.1km s-min=20.1km az=50.0.
CASC III 23 16 23 50.0–1.6 12.02N 87.96W 7–9 3.7,2.8L ¶602003403

CASC Error ellipse: s-maj=9.6km s-min=6.1km az=-1.0.
CASC III 26 02 26 34.0–1.6 12.22N 87.65W 85–51 3.7,2.7L ¶602003540

CASC Error ellipse: s-maj=36.8km s-min=25.7km az=-1.0.
ISC III 27 04 08 59.5–1.6 11.17N–.06 86.93W–.06 30–11 4.4b,3.3s 288 1-150
IDC III 27 04 08 57.0–.62 11.72N 86.39W 0 4.2,4.0 **¶16362953**
CASC III 27 04 09 00.4–3.3 11.13N 86.99W 56–172 4.4b,4.4
NEIC III 27 04 09 03.0–.84 11.34N 86.72W 55–7 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=9.7km az=52.0.
CASC Error ellipse: s-maj=25.1km s-min=25.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=6.4km az=222.0.
ISC III 27 04 57 57.4–1.1 11.96N–.08 87.06W–.06 68 3.6b 23 1-54
CASC III 27 04 56 50.8–2.7 7.88N 85.33W 342–62 4.9L,4.2 **¶17198731**
IDC III 27 04 57 51.9–1.5 12.79N 86.10W 0 4.0,3.7
ISCJB III 27 04 57 55.4–.95 11.87N–.09 87.06W–.05 68 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
CASC III 27 13 18 21.7–2.8 11.40N 86.22W 47–39 3.6,2.9L ¶602003576

CASC Error ellipse: s-maj=11.3km s-min=15.3km az=-1.0.
ISC III 28 07 44 53.5–.96 12.51N–.07 87.68W–.06 71–8 3.7b 53 1-139
ISCJB III 28 07 44 52.5–.43 12.48N–.06 87.68W–.05 80–4 3.8b **¶17198918**
CASC III 28 07 44 53.2–3.2 12.39N 87.75W 36–15 4.1,3.7L
IDC III 28 07 44 53.5–1.7 12.55N 87.53W 71–18 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=3.4km az=39.5.
CASC Error ellipse: s-maj=13.0km s-min=10.6km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=13.8km az=46.0.
ISC III 28 09 31 48.4–.78 11.88N–.05 86.41W–.05 106–6 4.1b 72 0-140
IDC III 28 09 31 48.6–1.3 11.95N 86.28W 109–17 4.0,3.9 **¶17198930**
ISCJB III 28 09 31 48.1–.29 11.88N–.04 86.40W–.04 113–4 3.9b,3.9
CASC III 28 09 31 49.0–2.9 11.78N 86.48W 94–12 4.3,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=13.6km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=2.7km az=41.7.
CASC Error ellipse: s-maj=8.7km s-min=8.2km az=-1.0.
ISC IV 03 22 48 04.8–.91 11.8N–.20 87.3W–.20 48 4.0b 14 3-149
ISCJB IV 03 22 48 03.2–.96 11.7N–.20 87.4W–.10 48 3.8b **¶17199712**
IDC IV 03 22 48 07.1–2.5 11.82N 87.36W 65–24 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.8km s-min=8.4km az=39.9.
IDC Error ellipse: s-maj=39.0km s-min=14.1km az=51.0.
IDC IV 04 17 49 53.5–3.3 11.73N 87.23W 0 3.7,3.5 ¶17199796

IDC Error ellipse: s-maj=164.7km s-min=22.2km az=42.0.
ISC IV 04 17 56 42.5–1.3 11.56N–.06 87.48W–.07 44–13 4.5b,3.5s 185 1-150
IDC IV 04 17 56 39.8–1.1 12.48N 86.42W 0 4.2,3.9 **¶16577657**
CASC IV 04 17 56 40.8–3.3 11.50N 87.51W 44–380 4.7b,4.4
ISCJB IV 04 17 56 41.5–.58 11.51N–.05 87.42W–.05 56–4 4.4b,3.6s
NEIC IV 04 17 56 43.3–1.6 11.64N 87.32W 40–15 4.7b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=74.5km s-min=16.2km az=54.0.
CASC Error ellipse: s-maj=24.8km s-min=22.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=3.8km az=44.6.
NEIC Event type se. Error ellipse: s-maj=24.2km s-min=10.3km az=49.0.
CASC IV 04 21 30 18.3–4.6 11.43N 87.56W 0–70 3.9,3.0L ¶602385139

CASC Error ellipse: s-maj=25.5km s-min=167.3km az=-1.0.
CASC IV 05 00 55 51.0–3.3 11.64N 87.34W 40–631 3.9 ¶602385140

CASC Error ellipse: s-maj=36.0km s-min=34.1km az=-1.0.
CASC IV 05 01 47 32.3–2.3 12.16N 87.78W 35–999 3.5,3.2L ¶602385141

CASC Error ellipse: s-maj=59.6km s-min=44.0km az=-1.0.
ISC IV 05 09 17 55.2–.76 11.46N–.07 87.11W–.08 49 3.8b 31 1-150
IDC IV 05 09 17 51.1–1.3 11.93N 86.75W 0 4.0,3.8 **¶17199872**
ISCJB IV 05 09 17 53.4–.70 11.35N–.06 87.23W–.06 49 3.8b,3.8
CASC IV 05 09 17 56.7–2.7 11.55N 87.02W 70–43 4.5,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=19.2km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.1km az=41.4.
CASC Error ellipse: s-maj=14.9km s-min=18.1km az=-1.0.
ISC IV 05 15 27 27.9–1.1 12.18N–.06 87.81W–.05 46–9 4.3b,3.6s 84 1-149
IDC IV 05 15 27 25.1–3.3 12.29N 87.68W 21–20 4.1,4.0 **¶16411031**
ISCJB IV 05 15 27 27.0–.49 12.12N–.05 87.82W–.04 54–5 4.2b,3.5s
CASC IV 05 15 27 27.5–1.8 12.13N 87.82W 36–999 4.5b,4.5
NEIC IV 05 15 27 29.0–.93 12.20N 87.74W 57–9 4.5b,4.0

ISC Event type fe.
IDC Error ellipse: s-maj=35.8km s-min=14.7km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.1km az=38.4.
CASC Error ellipse: s-maj=10.4km s-min=7.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=16.3km s-min=6.3km az=48.0. Felt [I] at La Union, El Salvador.
ISC IV 14 01 56 30.6–.64 12.66N–.05 87.96W–.04 68–5 4.4b 239 1-148
ISCJB IV 14 01 56 29.6–.37 12.61N–.04 87.98W–.03 72–2 4.3b **¶16437940**
CASC IV 14 01 56 30.2–1.1 12.64N 88.00W 64–12 4.4b,4.1L
IDC IV 14 01 56 30.9–.75 12.81N 87.76W 68–6 4.0,4.0
NEIC IV 14 01 56 33.7–.86 12.81N 88.01W 84–9 4.4,4.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.2km az=33.8.
CASC Error ellipse: s-maj=6.7km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=26.8km s-min=9.3km az=51.0.
NEIC Event type fe. Error ellipse: s-maj=14.4km s-min=9.0km az=61.0. Felt [I] at La Union.
CASC IV 14 10 55 40.9–1.0 12.05N 87.09W 60–9 3.8,3.8L ¶602385169

CASC Error ellipse: s-maj=4.7km s-min=3.2km az=-1.0.
ISC IV 14 20 50 19.0–.38 11.28N–.04 86.36W–.04 55–2 5.5b,5.4s 1182 1-177
IDC IV 14 20 50 11.5–.34 11.48N 86.06W 0 5.3,5.3s **¶16436913**
NEIC IV 14 20 50 15.1–.20 11.24N 86.34W 22 5.7W,5.6W
GCMT IV 14 20 50 16.5–.10 10.85N 86.81W 34–0 5.7W,5.6W
CASC IV 14 20 50 16.3–2.2 11.02N 86.57W 22–8 5.6b,4.9
ISCJB IV 14 20 50 18.8–.25 11.30N–.03 86.32W–.02 72–2 5.4b,4.9
BJI IV 14 20 50 19.5 11.30N 86.30W 56 5.9s,5.6
NEIC IV 14 20 50 19.0–.00 11.11N 86.25W 35 5.9s,5.6
MOS IV 14 20 50 19.1–1.1 11.52N 86.09W 64 5.7b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=8.9km az=59.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=46.0. Felt [III] at Managua. Felt widely in western Nicaragua. Felt [III] at Sardinal, Costa Rica. Felt in northwestern Costa Rica and in the Valle Central. Felt [I] at San Salvador, El Salvador. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36 $M_{\theta\theta}$-1.84 $M_{\phi\phi}$-0.52 $M_{r\theta}$1.17 $M_{\theta\phi}$1.00 $M_{\phi r}$-0.58 Best double couple: NP1:ϕ_s117.00000°,δ59.00000°,λ89.00000°. NP2: ϕ_s299.00000°,δ31.00000°,λ92.00000°. Principal axes: T 2.6900,Plg76.0000°,Azm25.0000° ; N 0.0200,Plg1.0000°,Azm118.0000°; P -2.7100,Plg14.0000°,Azm208.0000° M_o2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c233; s123,c307;Duration: 1ś7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.62±.04 $M_{\theta\theta}$-2.56±.03; $M_{\phi\phi}$-1.06±.04; $M_{r\theta}$2.04±.05; $M_{\theta\phi}$1.99±.03; $M_{\phi r}$-1.35±.05; Best double couple: NP1: ϕ_s124.00000°,δ61.00000°,λ89.00000°. NP2:ϕ_s305.00000°,δ29.00000°,λ91.00000°. Principal axes: T 4.3430,Plg74.0000°,Azm32.0000°; N 0.3160,Plg1.0000°,Azm124.0000° ; P -4.6590,Plg16.0000°,Azm215.0000° M_o4.50100×10^{17}
CASC Error ellipse: s-maj=9.5km s-min=6.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.4km az=39.0.
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}3.40 $M_{\theta\theta}$-2.20 $M_{\phi\phi}$-1.20 $M_{r\theta}$2.10 $M_{\theta\phi}$2.30 $M_{\phi r}$-2.20 Best double couple: NP1:ϕ_s133.00000° ,δ65.00000°,λ95.00000°. NP2:ϕ_s302.00000°,δ26.00000°,λ80.00000°. Principal axes: T 4.5000,Plg69.0000°,Azm53.0000°; N 0.7000,Plg4.0000°,Azm311.0000° ; P -5.2000,Plg19.0000°,Azm219.0000° M_o5.00000×10^{17}
MOS Error ellipse: s-maj=9.3km s-min=4.3km az=114.3.
CASC IV 14 22 30 09.8–2.0 11.08N 86.61W 25–7 4.0,3.0L ¶602385170

CASC Error ellipse: s-maj=6.2km s-min=7.8km az=-1.0.
CASC IV 16 08 18 20.1–2.9 11.22N 87.83W 82–113 4.1,3.1L ¶602385175

CASC Error ellipse: s-maj=27.0km s-min=33.0km az=-1.0.
CASC IV 17 12 35 33.0–1.2 12.32N 87.81W 54–28 3.5,3.5L ¶602385179

CASC Error ellipse: s-maj=10.6km s-min=7.4km az=-1.0.
ISC IV 17 21 52 58.5–.64 12.35N–.07 87.55W–.06 67 3.9b 47 1-149
ISCJB IV 17 21 52 57.7–.50 12.31N–.05 87.57W–.05 67 3.9b **¶17201361**
CASC IV 17 21 52 58.7–2.0 12.34N 87.52W 65–23 4.5,4.2L
IDC IV 17 21 53 00.2–1.5 12.45N 87.30W 80–14 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.2km az=41.7.
CASC Error ellipse: s-maj=12.2km s-min=11.3km az=-1.0.
IDC Error ellipse: s-maj=33.1km s-min=11.3km az=55.0.
ISC IV 21 05 09 09.3–1.1 11.98N–.06 87.12W–.07 58–12 3.6b 37 1-54
IDC IV 21 05 09 04.4–1.7 12.83N 86.26W 0 3.9,3.6 **¶17201673**
ISCJB IV 21 05 09 08.6–.53 11.95N–.05 87.13W–.05 61–9 3.5b,3.6
CASC IV 21 05 09 09.0–1.6 11.92N 87.14W 52–19 4.1,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=77.9km s-min=25.9km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.8km az=41.0.
CASC Error ellipse: s-maj=5.7km s-min=5.2km az=-1.0.
CASC IV 21 08 24 12.1–1.8 11.39N 87.43W 36–999 4.1,2.8L ¶602385195

CASC Error ellipse: s-maj=11.8km s-min=12.3km az=-1.0.
CASC IV 22 16 07 11.6–1.6 12.49N 87.91W 40–104 4.3,3.5L ¶602385199

CASC Error ellipse: s-maj=9.1km s-min=6.0km az=-1.0.
ISC V 02 23 55 39.7–.35 12.01N–.03 87.64W–.03 33–1 5.5b,5.1s 1425 1-166
ISCJB V 02 23 55 38.4–.14 12.14N–.02 87.45W–.02 33 5.4b,5.0s **¶16487931**
IDC V 02 23 55 38.7–1.7 12.36N 87.19W 24–9 5.2,5.2
BJI V 02 23 55 38.8 12.10N 87.50W 25 5.4b,5.4s
MOS V 02 23 55 39.2–1.4 12.37N 87.30W 33 5.4b,5.1s
NEIC V 02 23 55 39.5–.20 12.13N 87.47W 28 5.6b,5.5
SSS V 02 23 55 39.9 12.07N 87.67W 26 5.5W,5.4L
INET V 02 23 55 39.1 12.01N 87.70W 8 5.5L,5.4L
CASC V 02 23 55 39.9–1.7 12.06N 87.68W 24 5.5b,5.2L
GCMT V 02 23 55 40.4–.10 11.90N 87.95W 32–0 5.5W,5.2L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=1.9km az=41.4.
IDC Error ellipse: s-maj=18.1km s-min=10.2km az=60.0.
MOS Error ellipse: s-maj=9.1km s-min=4.7km az=109.6.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=37.0. Felt [II] at Diriamba and Managua. Also felt at Chinandega, Corinto and Leon. Felt [III] at San Salvador, El Salvador. Felt at Santa Cruz, Costa Rica and at Tegucigalpa, Honduras. Complex earthquake observed on broadband displacement seismograms. A large event is followed by a smaller event about 2 seconds later. Depth based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s40 Moment tensor: Scale 10^{17}Nm; M_{rr}1.54 $M_{\theta\theta}$-0.72 $M_{\phi\phi}$-0.82 $M_{r\theta}$0.41 $M_{\theta\phi}$0.83 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s133.00000° ,δ54.00000°,λ85.00000°. NP2:ϕ_s321.00000°,δ37.00000°,λ96.00000°. Principal axes: T 1.6200,Plg81.0000°,Azm22.0000°; N 0.0600,Plg4.0000°,Azm136.0000° ; P -1.6800,Plg9.0000°,Azm226.0000° M_o1.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s330.00000°,δ15.00000°,λ90.00000°. NP2: ϕ_s150.00000°,δ75.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm60.0000° ; N Plg0.0000°,Azm0.0000°; P Plg30.0000°,Azm240.0000°
CASC Error ellipse: s-maj=3.9km s-min=2.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s108,c197; s111,c216; Duration: 1ś4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.06±.04 $M_{\theta\theta}$-1.74±.03; $M_{\phi\phi}$-0.32±.03; $M_{r\theta}$1.05±.04; $M_{\theta\phi}$1.19±.02; $M_{\phi r}$-0.87±.05; Best double couple: NP1:ϕ_s126.00000°,δ61.00000° ,λ96.00000°. NP2:ϕ_s293.00000°,δ30.00000°,λ79.00000°. Principal axes: T 2.4550,Plg73.0000°,Azm52.0000°; N 0.3290,Plg6.0000°,Azm302.0000° ; P -2.7890,Plg16.0000°,Azm211.0000° M_o2.62200×10^{17}
CASC V 04 00 34 16.7–2.5 12.23N 87.06W 82–11 3.9,3.7L ¶602385302

CASC Error ellipse: s-maj=9.6km s-min=7.2km az=-1.0.
CASC V 04 19 55 52.6–2.1 12.95N 87.73W 147–16 3.6,3.1L ¶602385303

CASC Error ellipse: s-maj=12.4km s-min=10.9km az=-1.0.
CASC V 05 08 59 54.6–2.6 11.90N 86.62W 109–14 4.3,3.0L ¶602385324

CASC Error ellipse: s-maj=13.9km s-min=17.7km az=-1.0.
CASC V 08 14 46 18.9–3.1 11.04N 86.54W 35–999 4.2,3.0L ¶602385417

CASC Error ellipse: s-maj=19.1km s-min=25.2km az=-1.0.
CASC V 10 02 58 44.3–1.1 11.94N 86.86W 56–15 3.5,2.9L ¶602385471

CASC Error ellipse: s-maj=9.7km s-min=8.4km az=-1.0.
ISC V 10 08 33 17.8–1.9 12.30N–.08 87.97W–.05 26–13 3.9b 41 1-46
IDC V 10 08 33 09.1–1.6 11.84N 87.67W 0 4.1,3.8 **¶17203194**
ISCJB V 10 08 33 17.4–.72 12.19N–.05 88.04W–.04 36–11 3.8b,2.8s
CASC V 10 08 33 17.5–3.7 12.19N 88.03W 35–999 4.0,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=46.6km s-min=25.0km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=3.8km az=30.3.
CASC Error ellipse: s-maj=41.3km s-min=27.1km az=-1.0.
CASC V 10 10 51 24.6–13 12.03N 87.92W 39–999 3.5,3.1L ¶602385473

CASC Error ellipse: s-maj=587.0km s-min=360.4km az=-1.0.
CASC V 10 19 36 07.4–1.6 12.40N 87.33W 38–303 3.5,2.7L ¶602385475

CASC Error ellipse: s-maj=33.6km s-min=24.6km az=-1.0.
CASC V 13 09 04 58.2–1.8 11.96N 87.77W 23–11 3.8,2.7L ¶602385603

CASC Error ellipse: s-maj=9.8km s-min=6.3km az=-1.0.
CASC V 16 02 47 39.0–3.7 11.05N 86.65W 42–396 3.9 ¶602385689

CASC Error ellipse: s-maj=30.9km s-min=42.2km az=-1.0.
CASC V 16 10 35 21.6–1.7 12.07N 87.73W 25–12 3.6 ¶602385690

CASC Error ellipse: s-maj=14.7km s-min=7.5km az=-1.0.
ISC V 16 18 55 04.5–1.1 11.4N–.10 87.41W–.06 37 3.8b 22 1-150
CASC V 16 18 55 01.8–2.2 11.51N 87.49W 4–16 3.9,3.5L **¶17203766**
ISCJB V 16 18 55 02.5–.95 11.37N–.07 87.42W–.06 37 3.7b,3.3s
IDC V 16 18 55 06.6–5.1 11.71N 87.14W 51–50 3.8,3.8
ISC Event type ke.
CASC Error ellipse: s-maj=18.6km s-min=5.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.5km az=23.3.
IDC Error ellipse: s-maj=68.9km s-min=25.0km az=57.0.
CASC V 18 02 56 24.6–3.3 11.05N 86.83W 0–28 4.0,2.5L ¶602385731

CASC Error ellipse: s-maj=34.5km s-min=41.0km az=-1.0.
CASC V 18 03 05 04.9–6.1 11.23N 86.70W 0–21 4.0,2.8L ¶602385732

CASC Error ellipse: s-maj=22.0km s-min=34.7km az=-1.0.
ISC V 19 10 04 17.3–1.0 11.1N–.20 86.5W–.20 35 3.5b 16 2-140
IDC V 19 10 04 10.8–3.7 11.43N 85.68W 0 3.9,3.7 **¶17203962**
CASC V 19 10 04 16.8–2.5 11.01N 86.65W 37–999 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=94.4km s-min=61.7km az=33.0.
CASC Error ellipse: s-maj=35.7km s-min=38.7km az=-1.0.
ISC V 27 06 40 05.4–.84 11.9N–.10 87.1W–.10 68 4.1b 23 2-149
IDC V 27 06 39 57.2–.96 11.88N 86.96W 0 4.2,4.1 **¶16632919**
ISCJB V 27 06 40 02.7–.69 11.7N–.10 87.1W–.10 68 4.0b,4.1
NEIC V 27 06 40 02.5–.61 11.82N 86.94W 35 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=39.4km s-min=15.3km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=22.7km s-min=6.8km az=44.9.
NEIC Event type se. Error ellipse: s-maj=24.8km s-min=10.2km az=57.0.
ISC VI 06 11 57 55.3–2.0 11.55N–.06 87.99W–.09 31–17 3.8b 35 2-67
IDC VI 06 11 57 51.5–7.2 11.69N 87.41W 0 4.1,3.8 **¶17205410**
CASC VI 06 11 57 59.6–1.4 11.94N 88.06W 26–11 4.0,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=133.2km s-min=70.5km az=170.0.
CASC Error ellipse: s-maj=5.3km s-min=4.3km az=-1.0.
CASC VI 14 00 44 29.4–.95 11.02N 87.50W 33–40 3.6,3.1L ¶602386243

CASC Error ellipse: s-maj=26.8km s-min=8.9km az=-1.0.
CASC VI 18 05 11 35.8–1.8 11.71N 87.17W 35–14 4.3,3.5L ¶602386268

CASC Error ellipse: s-maj=6.5km s-min=4.1km az=-1.0.
CASC VI 19 18 32 39.6–1.1 11.29N 86.26W 38–6 3.9,3.0L ¶602386276

CASC Error ellipse: s-maj=5.8km s-min=7.9km az=-1.0.
CASC VI 22 23 46 10.4–2.4 12.20N 87.44W 35–26 4.0,3.5L ¶602386288

CASC Error ellipse: s-maj=12.5km s-min=9.7km az=-1.0.
CASC VI 25 04 32 02.6–2.8 12.54N 87.88W 45–116 4.1,3.7L ¶602386301

CASC Error ellipse: s-maj=22.4km s-min=15.4km az=-1.0.
CASC VI 25 09 58 07.5–.98 11.86N 86.37W 107–6 4.0,3.1L ¶602386302

CASC Error ellipse: s-maj=7.4km s-min=10.1km az=-1.0.
ISC VI 25 14 54 53.8–.92 11.97N–.07 87.72W–.07 35 3.8b 28 1-149
IDC VI 25 14 54 45.5–3.2 11.63N 87.45W 0 4.0,3.7 **¶17206924**
ISCJB VI 25 14 54 52.5–.68 11.86N–.07 87.78W–.06 35 3.6b,3.7
CASC VI 25 14 54 54.3–2.2 12.02N 87.71W 36–999 4.0,3.1L
UCR VI 25 14 54 58.9 11.72N 87.53W 35 4.5,3.1L
ISC Event type ke.
IDC Error ellipse: s-maj=73.7km s-min=48.1km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=3.8km az=37.7.
CASC Error ellipse: s-maj=21.2km s-min=15.0km az=-1.0.

(75) Nicaragua.

CASC I 07 18 00 20.1–1.6 13.39N 86.65W 6–12 3.6 ¶601907069

CASC Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
IDC I 08 14 25 29.3–3.9 12.85N 86.56W 0 3.7,3.4 ¶17189701

IDC Error ellipse: s-maj=95.5km s-min=72.1km az=71.0.
ISC I 17 15 53 38.5–.86 12.21N–.06 86.91W–.06 122–6 3.2b 50 0-140
IDC I 17 15 53 37.5–2.5 12.77N 86.23W 112–40 3.5,3.4 **¶17190416**
ISCJB I 17 15 53 38.6–.45 12.18N–.06 86.92W–.05 121–5 3.4b,3.4
CASC I 17 15 53 39.4–2.4 12.14N 86.98W 108–10 4.1,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=76.6km s-min=23.1km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=3.5km az=38.4.
CASC Error ellipse: s-maj=7.7km s-min=6.5km az=-1.0.
CASC II 13 07 37 35.4–2.6 11.96N 84.91W 11–24 3.8,2.6L ¶601908137

CASC Error ellipse: s-maj=34.5km s-min=33.7km az=-1.0.
CASC III 30 09 49 53.1–1.9 12.08N 86.69W 136–10 3.9,2.4L ¶602003696

CASC Error ellipse: s-maj=9.6km s-min=8.4km az=-1.0.
ISC III 30 11 21 22.7–.59 11.16N–.05 85.64W–.05 116–5 4.1b 126 1-141
IDC III 30 11 21 22.0–.69 11.33N 85.48W 107–11 4.1,3.8 **¶16401511**
ISCJB III 30 11 21 22.3–.23 11.15N–.04 85.65W–.04 119–2 4.1b,3.8
CASC III 30 11 21 22.8–2.6 11.11N 85.69W 106–11 4.3b,4.2
NEIC III 30 11 21 23.4–.51 11.19N 85.61W 110 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=13.4km az=56.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=2.7km az=40.7.
CASC Error ellipse: s-maj=8.9km s-min=8.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=6.3km az=218.0.
IDC IV 05 09 55 12.0–1.2 12.08N 86.75W 0 4.0,3.7L ¶17199878

IDC Error ellipse: s-maj=45.9km s-min=19.7km az=59.0.
ISC IV 11 21 03 47.5–.89 12.26N–.09 86.90W–.08 112–7 3.2b 31 0-140
ISCJB IV 11 21 03 47.2–.51 12.21N–.09 86.93W–.09 113–6 3.2b **¶17200689**
CASC IV 11 21 03 47.7–2.1 12.14N 86.99W 104–11 4.0,3.3L
IDC IV 11 21 03 49.1–3.2 12.39N 86.36W 141–63 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=4.8km az=41.9.
CASC Error ellipse: s-maj=11.0km s-min=9.1km az=-1.0.
IDC Error ellipse: s-maj=105.0km s-min=54.3km az=46.0.

IDC IV 14 18 38 49.4–.95 11.21N 85.58W 196–30 3.4,3.3 ¶17201048

IDC Error ellipse: s-maj=63.0km s-min=45.9km az=128.0.
ISC IV 18 19 39 11.0–.45 13.73N–.04 83.20W–.08 10 4.2b,3.6s 54 4-144
CASC IV 18 19 38 59.9–3.5 14.75N 83.01W 23–985 4.9,4.4b **¶16587535**
ISCJB IV 18 19 39 09.5–.31 13.79N–.04 83.08W–.06 10 4.2b,3.6s
IDC IV 18 19 39 09.5–.57 13.73N 83.21W 0 4.3,4.1
NEIC IV 18 19 39 10.0–3.8 13.75N 83.17W 3–25 4.4b,4.1
ISC Event type se.
CASC Error ellipse: s-maj=577.9km s-min=238.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=4.8km az=162.2.
IDC Error ellipse: s-maj=19.6km s-min=12.0km az=63.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=5.7km az=53.0.
ISC IV 23 01 50 32.5–.33 11.63N–.04 85.89W–.05 195–2 4.8b 854 0-162
ISCJB IV 23 01 50 31.8–.17 11.58N–.02 85.97W–.02 204–1 4.7b **¶16452073**
CASC IV 23 01 50 32.2–1.8 11.56N 86.00W 186–7 4.9b,4.6
NEIC IV 23 01 50 32.5–.21 11.57N 85.95W 196 4.9b,4.6
IDC IV 23 01 50 32.6–.40 11.75N 85.76W 194–3 4.6,4.2
BJI IV 23 01 50 33.6 11.60N 85.90W 210 4.9b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.2km az=40.0.
CASC Error ellipse: s-maj=6.8km s-min=7.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=222.0. Felt at Catarina, Rivas and Tola. Felt [III] at Sardinal, Costa Rica. Also felt at Belen, Liberia, Santa Cruz, Samara and Tilaran.
IDC Error ellipse: s-maj=12.9km s-min=6.3km az=58.0.
ISC IV 25 18 51 13.1–.42 11.70N–.05 85.95W–.05 201–3 4.4b 387 0-150
ISCJB IV 25 18 51 12.6–.19 11.74N–.04 85.93W–.04 209–2 4.3b **¶16596747**
IDC IV 25 18 51 13.3–.44 11.79N 85.88W 203–3 4.3,3.9
NEIC IV 25 18 51 13.2–.76 11.66N 85.98W 206–8 4.8b,3.9
CASC IV 25 18 51 13.4–2.3 11.58N 86.03W 189–9 4.8b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=2.7km az=43.3.
IDC Error ellipse: s-maj=15.1km s-min=7.6km az=56.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=5.7km az=54.0.
CASC Error ellipse: s-maj=7.5km s-min=7.6km az=-1.0.
CASC V 05 18 50 39.6–7.7 13.81N 83.02W 0–79 4.5,3.8L ¶602385325

CASC Error ellipse: s-maj=117.8km s-min=115.8km az=-1.0.
CASC VI 03 00 19 13.3–2.4 12.08N 83.77W 20–7 4.1,3.2L ¶602386202

CASC Error ellipse: s-maj=10.8km s-min=13.8km az=-1.0.
ISC VI 13 23 37 04.1–1.1 12.2N–.10 86.86W–.08 121–7 26 0-140
IDC VI 13 23 36 46.7–4.1 12.57N 85.54W 0 3.7,3.3 **¶17206073**
ISCJB VI 13 23 37 04.3–1.0 12.2N–.10 86.86W–.08 120–7 3.2b,3.3
CASC VI 13 23 37 04.8–.63 12.17N 86.91W 112–3 3.9,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=125.9km s-min=78.6km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=27.0km s-min=6.7km az=24.9.
CASC Error ellipse: s-maj=3.5km s-min=2.4km az=-1.0.
ISC VI 20 01 46 51.0–.76 12.43N–.08 86.74W–.06 187–6 4.0b 51 0-140
ISCJB VI 20 01 46 51.2–.40 12.49N–.07 86.70W–.05 189–4 3.8b **¶17206561**
CASC VI 20 01 46 52.3–2.0 12.31N 86.87W 174–8 4.1,3.8L
IDC VI 20 01 46 55.3–5.2 12.23N 86.80W 247–55 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=4.0km az=33.6.
CASC Error ellipse: s-maj=10.5km s-min=8.0km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=17.1km az=50.0.

(76) Off coast of central America.

ISC I 02 08 45 49.9–1.6 12.8N–.30 88.9W–.20 55 3.8b 8 5-148
IDC I 02 08 45 43.5–2.0 12.87N 88.93W 0 4.0,3.7 **¶17189203**
ISCJB I 02 08 45 48.0–1.5 12.7N–.20 88.9W–.20 55 3.6b,2.7s
ISC Event type ke.
ISCJB Event type ke.
IDC I 05 08 59 11.5–2.5 8.09N 89.63W 0 3.9,3.6 ¶17189495

IDC Error ellipse: s-maj=207.5km s-min=24.3km az=57.0.
CASC I 05 12 44 16.7–1.7 12.61N 88.33W 37–275 3.9,3.6L ¶601907001

CASC Error ellipse: s-maj=11.5km s-min=7.1km az=-1.0.
CASC I 10 05 43 34.5–2.0 12.00N 88.60W 36–999 3.7 ¶601907180

CASC Error ellipse: s-maj=31.5km s-min=23.4km az=-1.0.
ISC I 10 06 29 07.6–.71 12.4N–.10 88.1W–.10 50 4.3b 37 4-149
ISCJB I 10 06 29 05.7–.63 12.3N–.10 88.22W–.09 50 4.3b **¶16150945**
IDC I 10 06 29 06.5–4.6 12.43N 88.09W 33–35 4.0,3.9
NEIC I 10 06 29 07.6–.70 12.37N 88.15W 49–7 4.5b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=6.3km az=39.0.
IDC Error ellipse: s-maj=33.7km s-min=14.1km az=53.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=5.6km az=47.0.
ISC I 10 07 07 52.5–1.4 12.37N–.07 88.15W–.05 33–5 4.6b 303 1-149
ISCJB I 10 07 07 50.9–.47 12.49N–.06 87.95W–.04 33 4.4b **¶16032753**
NEIC I 10 07 07 53.5–.82 12.41N 88.22W 35 4.5b
IDC I 10 07 07 53.6–4.6 12.79N 87.74W 33–36 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=4.4km az=31.6.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=8.9km az=215.0.
IDC Error ellipse: s-maj=37.7km s-min=20.1km az=46.0.
ISC I 10 14 03 28.1–3.0 12.11N–.08 88.32W–.06 9–17 3.8b 33 1-149
IDC I 10 14 03 28.1–1.3 12.76N 87.58W 0 4.0,3.7 **¶17189856**
CASC I 10 14 03 30.1–1.4 12.17N 88.31W 84–59 3.8,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=18.9km az=48.0.
CASC Error ellipse: s-maj=27.2km s-min=16.2km az=-1.0.
ISC I 11 08 52 47.9–1.1 12.4N–.20 88.1W–.20 50 3.9b 15 4-149
ISCJB I 11 08 52 45.4–1.3 12.3N–.20 88.2W–.20 50 3.9b,3.6s **¶17189907**
IDC I 11 08 52 47.2–3.4 12.50N 88.00W 38–32 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.7km s-min=9.6km az=32.1.
IDC Error ellipse: s-maj=53.7km s-min=23.4km az=37.0.
ISC I 12 01 05 35.6–.51 12.50N–.04 90.19W–.04 42–4 5.1b,4.2s 982 1-162
IDC I 12 01 05 29.1–.46 12.50N 90.04W 0 4.9,4.8 **¶15919544**
CASC I 12 01 05 34.6–1.8 12.51N 90.13W 25–28 5.2b,4.3
ISCJB I 12 01 05 35.0–.43 12.63N–.03 90.13W–.02 48–3 5.1b,4.2s
GCMT I 12 01 05 36.6–.20 12.41N 90.55W 12 5.1W,4.2s
MOS I 12 01 05 36.4–.85 12.81N 90.27W 47 5.0b,4.1s
NEIC I 12 01 05 36.6–.59 12.51N 90.06W 48–5 5.2b,5.0
ISC Event type fe.
IDC Error ellipse: s-maj=21.1km s-min=9.5km az=52.0.
CASC Error ellipse: s-maj=8.6km s-min=16.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=2.4km az=40.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c81; s102,c182; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.57±.11 $M_{\theta\theta}$5.05±.09; $M_{\phi\phi}$0.51±.11; $M_{r\theta}$1.00±.29; $M_{\theta\phi}$-2.05±.09; $M_{\phi r}$0.39±.39; Best double couple: NP1:ϕ_s284.00000°,δ49.00000°,λ-100.00000°. NP2:ϕ_s119.00000°,δ42.00000°,λ-79.00000°. Principal axes: T 5.8950,Plg4.0000°,Azm21.0000°; N -0.1810,Plg7.0000°,Azm290.0000°; P -5.7200,Plg82.0000°,Azm139.0000° M_o5.80700×10^{16}
MOS Error ellipse: s-maj=14.3km s-min=8.5km az=90.6.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.2km az=225.0. Felt [III] at San Salvador. Also felt at Guatemala, Guatemala.
IDC I 14 19 09 29.3–7.5 12.43N 91.21W 0 3.9L,3.7 ¶17190206

IDC Error ellipse: s-maj=259.6km s-min=89.5km az=38.0.
ISC I 15 10 25 01.4–1.9 12.86N–.08 89.70W–.05 18–8 29 1-53
ISCJB I 15 10 25 04.3–1.4 12.99N–.08 89.73W–.05 28–8 3.1b **¶17190240**
CASC I 15 10 25 04.7–1.9 13.00N 89.67W 27–10 3.6,3.4L
IDC I 15 10 25 04.5–2.1 14.33N 88.58W 0 3.6,3.3
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.5km az=178.7.
CASC Error ellipse: s-maj=11.2km s-min=6.6km az=-1.0.
IDC Error ellipse: s-maj=86.5km s-min=30.3km az=44.0.
ISC I 17 03 30 16.7–1.3 12.3N–.20 88.0W–.20 50 3.3b 8 4-54
IDC I 17 03 30 12.3–2.4 12.52N 87.92W 0 3.7,3.6b ¶17190371
ISCJB I 17 03 30 14.3–1.2 12.1N–.20 88.1W–.20 50 3.4b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 04 49 27.1–.87 12.62N–.07 88.30W–.04 51–7 3.7b 59 1-148
ISCJB I 17 04 49 26.7–.52 12.61N–.06 88.30W–.04 63–5 3.8b ¶17190376
CASC I 17 04 49 27.4–1.9 12.62N 88.31W 39–172 3.9,3.8L
IDC I 17 04 49 28.0–1.1 12.82N 88.09W 50–7 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=3.5km az=29.9.
CASC Error ellipse: s-maj=12.2km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=36.6km s-min=11.5km az=44.0.
ISC I 22 00 18 45.1–2.9 12.8N–.10 90.1W–.10 54–23 4.0b 34 1-89
CASC I 22 00 18 43.1–1.5 12.73N 90.10W 13–14 3.9,3.6L ¶17190703
ISCJB I 22 00 18 44.0–1.2 12.70N–.07 90.10W–.07 59–11 4.0b,3.1s
IDC I 22 00 18 51.2–3.8 13.28N 89.68W 81–37 3.9,3.8
ISC Event type ke.
CASC Error ellipse: s-maj=4.3km s-min=10.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=6.7km az=40.7.
IDC Error ellipse: s-maj=70.0km s-min=20.9km az=31.0.
CASC I 23 06 46 37.4–2.1 12.85N 88.68W 35–999 3.7
SSS I 23 06 46 37.6 12.89N 88.75W 26 3.4 ¶601907495
CASC Error ellipse: s-maj=46.1km s-min=30.1km az=-1.0.
ISC I 25 06 18 45.0–.96 12.17N–.06 88.66W–.05 44–8 4.7b 278 1-149
IDC I 25 06 18 39.8–.77 12.40N 88.38W 0 4.2,4.0 ¶15964368
CASC I 25 06 18 42.8–1.1 12.07N 88.74W 36–999 5.0b,3.6L
ISCJB I 25 06 18 43.8–.55 12.17N–.04 88.63W–.04 54–3 4.6b,4.0s
NEIC I 25 06 18 46.0–.92 12.23N 88.55W 48–9 5.0b,4.0s
ISC Event type fe.
IDC Error ellipse: s-maj=30.4km s-min=13.9km az=57.0.
CASC Error ellipse: s-maj=11.4km s-min=6.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=3.4km az=36.5.
NEIC Event type fe. Error ellipse: s-maj=12.7km s-min=6.6km az=47.0. Felt [II] at San Salvador.
ISC II 05 05 47 25.6–1.7 13.0N–.10 89.47W–.08 57–15 36 1-53
ISCJB II 05 05 47 25.4–1.0 13.0N–.10 89.45W–.07 67–9 3.8b ¶17191717
CASC II 05 05 47 25.8–.96 12.98N 89.46W 32–3 3.9,3.5L
IDC II 05 05 47 27.8–18 14.33N 88.83W 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=5.3km az=32.3.
CASC Error ellipse: s-maj=3.4km s-min=3.3km az=-1.0.
IDC Error ellipse: s-maj=345.6km s-min=43.3km az=177.0.
ISC II 06 10 26 13.1–1.8 12.1N–.10 88.04W–.06 44–15 3.9b 40 1-149
IDC II 06 10 26 07.2–3.5 12.23N 87.56W 0 4.1,3.8 ¶16024685
ISCJB II 06 10 26 12.0–.88 12.06N–.07 88.05W–.05 53–9 3.8b,3.8
INET II 06 10 26 12.4 12.10N 88.01W 12 4.3L,3.8
CASC II 06 10 26 12.6–1.5 12.09N 88.05W 34–13 4.1,4.0L
SSS II 06 10 26 12.3 12.16N 88.03W 26 4.0,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=76.4km s-min=41.8km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=4.8km az=31.9.
CASC Error ellipse: s-maj=7.7km s-min=4.8km az=-1.0.
CASC II 08 18 08 06.4–1.4 12.11N 88.39W 34–20 3.8,3.4L
¶601907975
CASC Error ellipse: s-maj=11.7km s-min=6.7km az=-1.0.
IDC II 18 11 59 30.6–15 11.96N 89.51W 0 3.5,3.2
¶17192478
IDC Error ellipse: s-maj=1178.0km s-min=63.9km az=65.0.
IDC II 20 21 03 36.9–5.7 3.28N 83.36W 0 4.6L,4.1
¶17192603
IDC Error ellipse: s-maj=138.3km s-min=94.9km az=95.0.
IDC II 20 21 05 38.1–5.7 3.33N 83.20W 0 4.8L,4.1
¶17192604
IDC Error ellipse: s-maj=140.3km s-min=96.4km az=92.0.
ISC II 23 04 43 53.1–1.2 3.6N–.10 83.1W–.10 35 3.9b,3.6s 13 6-84
IDC II 23 04 43 48.4–1.5 3.55N 83.27W 0 4.0,3.9 ¶17192736
ISC Event type ke.
IDC Error ellipse: s-maj=43.0km s-min=18.9km az=44.0.
ISC II 25 04 55 33.5–1.3 12.77N–.07 88.92W–.05 46–13 3.5b 57 1-138
ISCJB II 25 04 55 32.9–.60 12.79N–.06 88.90W–.05 62–6 3.7b ¶17192816
CASC II 25 04 55 35.0–4.7 12.89N 88.85W 40–204 4.7,3.9L
IDC II 25 04 55 38.2–2.4 13.10N 88.64W 83–20 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=3.6km az=36.9.
CASC Error ellipse: s-maj=22.9km s-min=13.0km az=-1.0.
IDC Error ellipse: s-maj=46.1km s-min=15.7km az=44.0.
ISC III 01 14 56 54.8–1.1 12.77N–.06 88.95W–.05 51–11 4.3b,3.2s 90 1-148
ISCJB III 01 14 56 54.0–.47 12.77N–.04 88.92W–.04 57–4 4.2b,3.2s ¶16173022
INET III 01 14 56 53.7 12.78N 88.97W 16 4.3L,3.2s
CASC III 01 14 56 54.9–5.9 12.82N 88.94W 37–15 4.4b,4.2
NEIC III 01 14 56 55.6–1.4 12.81N 88.90W 54–11 4.4b,4.1
IDC III 01 14 56 57.0–1.7 12.96N 88.72W 67–17 4.0,3.9
UPA III 01 14 56 58.7 13.22N 88.30W 10 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=2.9km az=41.9.
CASC Error ellipse: s-maj=12.4km s-min=12.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=23.0km s-min=8.6km az=225.0. Felt [II] at San Salvador.
IDC Error ellipse: s-maj=30.3km s-min=10.2km az=46.0.
ISC III 03 05 44 22.7–1.0 12.88N–.05 88.83W–.04 22–7 3.2b 58 1-53
IDC III 03 05 44 20.0–1.8 13.83N 88.03W 0 3.7,3.5 ¶17193173
CASC III 03 05 44 24.0–2.2 12.88N 88.83W 38–113 4.1,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=81.7km s-min=24.3km az=48.0.
CASC Error ellipse: s-maj=10.2km s-min=5.5km az=-1.0.
CASC III 10 08 41 48.8–1.9 12.58N 88.32W 36–999 3.5,3.2L
¶602002891
CASC Error ellipse: s-maj=11.8km s-min=6.2km az=-1.0.
CASC III 11 14 50 08.7–1.5 12.70N 88.64W 37–292 3.6,3.3L
¶602002962
CASC Error ellipse: s-maj=13.4km s-min=6.8km az=-1.0.
ISC III 14 09 39 13.5–.88 12.56N–.06 89.21W–.06 50–7 4.4b 276 1-148
IDC III 14 09 39 09.0–1.4 12.99N 88.90W 0 4.1,4.0 ¶16452057
ISCJB III 14 09 39 12.0–.69 12.51N–.05 89.21W–.04 61–4 4.3b,4.0
CASC III 14 09 39 12.0–1.5 12.50N 89.29W 42–6 4.5b,4.0
NEIC III 14 09 39 14.2–1.1 12.52N 89.21W 62–10 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=38.6km s-min=18.5km az=33.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=4.1km az=36.7.
CASC Error ellipse: s-maj=6.5km s-min=5.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=8.0km az=217.0.
CASC III 16 08 13 38.7–.87 12.92N 88.90W 48–17 3.7L,3.6
¶602003151
CASC Error ellipse: s-maj=6.6km s-min=2.6km az=-1.0.
ISC III 18 02 33 41.6–.68 12.51N–.10 88.97W–.09 40 4.3b 194 2-148
IDC III 18 02 33 40.0–1.6 13.17N 88.52W 0 4.1,3.8 ¶16427655
BJI III 18 02 33 42.0 12.40N 89.00W 67 5.0s,4.7
NEIC III 18 02 33 43.0–.80 12.41N 88.95W 64–7 4.4b,3.9
ISC Event type fe.
IDC Error ellipse: s-maj=51.7km s-min=18.1km az=42.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.5km az=221.0. Felt [I] at San Salvador.
CASC III 18 23 55 50.2–2.2 12.66N 88.08W 70–48 4.4,3.6L
¶602003257
CASC Error ellipse: s-maj=29.1km s-min=17.5km az=-1.0.
ISC III 19 12 43 41.0–.83 12.48N–.07 88.93W–.05 69–6 4.4b 273 1-148
IDC III 19 12 43 35.7–1.5 13.04N 88.50W 0 4.2,4.0 ¶16339527
CASC III 19 12 43 38.6–1.8 12.53N 88.94W 22–7 4.5b,4.1
ISCJB III 19 12 43 38.3–.66 12.43N–.05 88.92W–.04 54–4 4.4b,4.1
BJI III 19 12 43 40.1 12.40N 88.80W 67 4.9b,4.1
NEIC III 19 12 43 40.8–.83 12.45N 88.85W 61–8 4.5b,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=50.1km s-min=24.6km az=42.0.
CASC Error ellipse: s-maj=5.9km s-min=5.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.7km az=38.1.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=6.8km az=217.0. Felt [I] at San Salvador.
IDC III 25 23 08 59.6–3.8 2.98N 83.63W 0 3.8,3.5
¶17198571
IDC Error ellipse: s-maj=153.7km s-min=55.6km az=87.0.
ISC IV 05 23 30 17.3–1.7 12.4N–.20 90.07W–.10 35 4.5b,3.6s 191 1-148
IDC IV 05 23 30 19.4–1.8 13.45N 89.78W 0 4.2,4.0 ¶16577692
NEIC IV 05 23 30 24.2–1.2 12.86N 90.15W 63–11 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=46.2km s-min=20.8km az=34.0.
NEIC Event type se. Error ellipse: s-maj=23.0km s-min=8.3km az=203.0.
ISC IV 11 19 31 35.8–1.1 12.44N–.09 88.5W–.10 35 3.8b 15 1-148
IDC IV 11 19 31 38.7–4.0 12.76N 88.06W 69–38 3.8,3.8 ¶17200671
CASC IV 11 19 31 40.4–1.2 9.10N 86.75W 422–133 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=102.4km s-min=31.2km az=50.0.
CASC Error ellipse: s-maj=85.7km s-min=158.1km az=-1.0.
CASC IV 18 17 21 33.3–3.2 11.76N 89.71W 0–103 3.6L
¶602385183
CASC Error ellipse: s-maj=175.7km s-min=155.1km az=-1.0.
ISC IV 21 09 18 03.1–.52 12.60N–.08 88.84W–.08 40 4.5b,3.9s 412 4-148
ISCJB IV 21 09 18 01.2–.34 12.54N–.05 88.86W–.05 40 4.5b,3.9s ¶16451848
BJI IV 21 09 18 05.8 12.50N 88.90W 83 4.6s,4.4
IDC IV 21 09 18 06.1–2.6 12.78N 88.53W 63–23 4.1,4.0
NEIC IV 21 09 18 06.3–.67 12.48N 88.86W 76–7 4.5b,4.0
CASC IV 21 09 18 11.1–3.5 11.64N 88.49W 0–781 4.6,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=3.0km az=44.5.
IDC Error ellipse: s-maj=31.0km s-min=12.3km az=56.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=4.7km az=46.0.
CASC Error ellipse: s-maj=538.4km s-min=999.9km az=-1.0.
CASC IV 21 09 56 27.6–1.2 12.47N 89.02W 19–11 3.5,2.9L
¶602385196
CASC Error ellipse: s-maj=8.7km s-min=7.1km az=-1.0.
ISC IV 21 09 57 55.1–1.0 13.0N–.20 88.4W–.20 67 3.9b 11 4-139
IDC IV 21 09 57 47.1–1.2 13.06N 88.53W 0 4.1,3.9 ¶17201705
ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=21.6km az=59.0.
CASC IV 21 19 28 13.2–1.6 12.71N 88.61W 45–154 3.6,3.2L
¶602385197
CASC Error ellipse: s-maj=33.9km s-min=15.4km az=-1.0.
ISC IV 22 15 41 40.4–1.9 11.89N–.07 88.13W–.06 7–11 3.5b 32 1-149
ISCJB IV 22 15 41 42.5–1.9 11.83N–.06 88.12W–.05 24–20 3.6b ¶17201826
IDC IV 22 15 41 43.5–1.8 12.89N 87.05W 0 3.8,3.6
CASC IV 22 15 41 43.5–1.2 11.91N 88.09W 20–17 3.9L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.5km az=34.6.
IDC Error ellipse: s-maj=109.0km s-min=22.8km az=55.0.
CASC Error ellipse: s-maj=10.0km s-min=5.8km az=-1.0.
ISC IV 24 00 19 23.8–1.0 12.93N–.07 88.55W–.05 66–9 4.1b 52 1-86
ISCJB IV 24 00 19 22.3–.46 12.87N–.06 88.57W–.05 73–4 3.9b ¶16596741
CASC IV 24 00 19 22.8–1.8 12.80N 88.60W 33–9 4.4,3.7L
IDC IV 24 00 19 24.4–1.7 12.78N 88.49W 86–18 3.9,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=3.3km az=35.8.
CASC Error ellipse: s-maj=6.0km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=39.2km s-min=12.3km az=37.0.
CASC IV 27 13 35 53.2–1.6 12.09N 88.01W 36–21 3.8,2.7L
¶602385210
CASC Error ellipse: s-maj=29.9km s-min=19.7km az=-1.0.
CASC V 05 08 41 57.7–2.8 12.96N 89.25W 37–327 3.9,3.7L
¶602385323
CASC Error ellipse: s-maj=20.9km s-min=10.9km az=-1.0.
ISC V 05 11 28 42.9–1.5 12.61N–.06 88.20W–.04 29–12 3.5b 44 1-139
CASC V 05 11 28 47.1–12 13.00N 88.05W 65–95 4.0,3.5L ¶17202843
IDC V 05 11 28 56.6–9.7 13.47N 87.96W 147–58 3.5,3.4
ISC Event type ke.
CASC Error ellipse: s-maj=70.1km s-min=37.2km az=-1.0.
IDC Error ellipse: s-maj=94.3km s-min=63.6km az=5.0.
ISC V 05 16 47 10.2–1.0 12.92N–.08 88.79W–.05 59–9 3.5b 54 1-138
ISCJB V 05 16 47 10.1–.48 13.02N–.07 88.74W–.05 73–5 3.6b ¶17202868
IDC V 05 16 47 11.2–9.8 13.27N 88.44W 62–71 3.7,3.7
CASC V 05 16 47 12.3–14 13.17N 88.72W 63–108 4.0,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=3.4km az=30.1.
IDC Error ellipse: s-maj=76.7km s-min=65.9km az=42.0.
CASC Error ellipse: s-maj=82.2km s-min=41.0km az=-1.0.
CASC V 10 02 11 33.3–3.8 12.65N 88.19W 60–387 3.6,2.5L
¶602385470
CASC Error ellipse: s-maj=202.7km s-min=101.9km az=-1.0.
CASC V 10 05 32 55.8–1.1 12.85N 88.34W 60–15 3.6,3.2L
¶602385472
CASC Error ellipse: s-maj=11.1km s-min=4.8km az=-1.0.
CASC V 10 22 33 03.1–1.9 12.72N 88.33W 45–103 3.5,3.1L
¶602385476
CASC Error ellipse: s-maj=30.3km s-min=14.4km az=-1.0.
ISC V 11 04 46 05.6–1.2 3.1N–.10 83.2W–.10 35 3.8b 9 6-76
IDC V 11 04 46 00.7–1.4 3.15N 83.29W 0 4.0,3.8 ¶17203353
ISCJB V 11 04 46 04.1–1.0 3.3N–.10 83.11W–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 15 08 34 48.6–.44 12.59N–.04 88.14W–.04 59–3 4.8b,3.6s 758 1-152
CASC V 15 08 34 47.9–14 12.76N 88.06W 85–133 4.9W,4.8 ¶16512095
ISCJB V 15 08 34 48.3–.28 12.58N–.03 88.11W–.02 70–2 4.7b,4.8
GCMT V 15 08 34 48.6–.40 12.61N 88.25W 48–1 4.9W,4.8
IDC V 15 08 34 48.1–.66 12.77N 87.88W 55–5 4.6,4.6
NEIC V 15 08 34 48.6–.22 12.57N 88.07W 57 5.0,4.8b
ISC Event type fe.
CASC Error ellipse: s-maj=101.5km s-min=58.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.5km az=38.2.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c45; s45,c56; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.16±.14 $M_{\theta\theta}$-2.21±.10; $M_{\phi\phi}$0.04±.12; $M_{r\theta}$0.30±.07; $M_{\theta\phi}$1.11±.10; $M_{\phi r}$-0.33±.08; Best double couple: NP1:ϕ_s118.00000°,δ50.00000° ,λ98.00000°. NP2:ϕ_s286.00000°,δ41.00000°,λ80.00000°. Principal axes: T 2.2150,Plg82.0000°,Azm75.0000°; N 0.4780,Plg6.0000°,Azm293.0000° ; P -2.6990,Plg5.0000°,Azm203.0000° $M_0$2.45700×10^{16}
IDC Error ellipse: s-maj=18.4km s-min=9.4km az=58.0.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=217.0. Felt [II] at San Salvador, El Salvador. Also felt at Usulutan.
ISC V 17 15 42 22.9–3.2 3.4N–.10 83.3W–.30 10 3.7b 6 5-84
IDC V 17 15 42 23.1–1.8 2.79N 83.89W 0 4.0,3.7b ¶17203825
ISC Event type ke.
IDC Error ellipse: s-maj=93.1km s-min=26.9km az=52.0.
ISC V 20 21 23 15.1–1.1 3.7N–.20 83.1W–.10 24 3.7b 10 5-63
IDC V 20 21 23 29.9–20 3.70N 82.90W 170–217 4.2s,4.2 ¶17204084
ISC Event type ke.
IDC Error ellipse: s-maj=90.2km s-min=16.9km az=47.0.
ISC V 27 12 22 49.5–2.7 12.11N–.10 88.8W–.10 13–14 3.6b 39 1-149
SSS V 27 12 22 51.5 12.05N 89.01W 35 3.9 ¶17204568
CASC V 27 12 22 51.1–3.2 12.00N 88.97W 37–22 4.0
IDC V 27 12 23 03.3–9.6 12.71N 88.61W 103–62 3.7,3.6
ISC Event type ke.
CASC Error ellipse: s-maj=14.8km s-min=17.0km az=-1.0.
IDC Error ellipse: s-maj=79.2km s-min=44.7km az=178.0.
CASC VI 07 09 49 08.7–1.7 12.90N 88.57W 47–45 3.6L,3.6
¶602386215

CASC Error ellipse: s-maj=16.8km s-min=9.0km az=-1.0.
ISC VI 09 04 01 28.1–1.2 3.4N–.20 86.4W–.10 35 3.7b,3.1s 12 9-87
IDC VI 09 04 01 24.6–1.6 4.18N 85.43W 0 4.0,3.8 ¶17205592
ISCJB VI 09 04 01 26.5–1.0 3.6N–.10 86.32W–.09 33 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 11 22 23 33.1–.53 12.63N–.04 88.49W–.04 74–4 4.7b 650 1-149
IDC VI 11 22 23 31.2–1.7 12.81N 88.08W 54–14 4.4,4.4 ¶16591638
CASC VI 11 22 23 31.7–2.1 12.51N 88.55W 38–253 4.7b,4.5L
ISCJB VI 11 22 23 32.0–.28 12.63N–.03 88.46W–.02 83–2 4.7b,4.5L
NEIC VI 11 22 23 35.4–.53 12.72N 88.40W 94–5 5.0,4.7b
ISC Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=10.7km az=58.0.
CASC Error ellipse: s-maj=10.3km s-min=6.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.4km az=37.3.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=216.0. Felt [III] at San Salvador. Also felt at Antiguo Cuscatlan and Ozatlan.
ISC VI 12 10 17 56.4–.91 12.84N–.06 88.52W–.05 85–8 4.8b 803 2-157
IDC VI 12 10 17 51.6–.63 12.97N 88.31W 38–4 4.6,4.6 ¶16591656
ISCJB VI 12 10 17 56.0–.21 12.77N–.03 88.54W–.02 100 4.7b,4.6
GCMT VI 12 10 17 57.0–.30 12.58N 88.96W 43–1 5.0W,4.6
NEIC VI 12 10 17 57.0–.52 12.79N 88.48W 91–4 4.8b,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=18.6km s-min=9.6km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.5km az=34.9.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c75; s54,c71; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.36±.15 $M_{\theta\theta}$-2.33±.10; $M_{\phi\phi}$-1.03±.12; $M_{r\theta}$0.77±.12; $M_{\theta\phi}$1.85±.09; $M_{\phi r}$-0.57±.11; Best double couple: NP1:ϕ_s126.00000°,δ53.00000°,λ91.00000°. NP2:ϕ_s305.00000°,δ37.00000°,λ89.00000°. Principal axes: T 3.4880,Plg82.0000°,Azm39.0000°; N 0.2810,Plg0.0000°,Azm305.0000°; P -3.7690,Plg8.0000°,Azm215.0000° M_o3.62900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=217.0. Felt [I] at San Salvador.
CASC VI 12 10 34 07.5–1.7 12.85N 88.65W 47–36 4.2,3.5L
¶602386239

CASC Error ellipse: s-maj=9.6km s-min=5.4km az=-1.0.
IDC VI 18 01 59 32.4–1.7 7.58N 89.33W 0 4.1,3.8
¶17206431

IDC Error ellipse: s-maj=188.2km s-min=29.9km az=68.0.
ISC VI 20 00 10 41.8–1.2 12.93N–.08 88.96W–.06 65–10 3.5b 48 1-88
ISCJB VI 20 00 10 41.4–.56 12.95N–.07 88.94W–.05 73–6 3.6b ¶16684542
IDC VI 20 00 10 41.5–9.3 12.74N 88.59W 76–62 3.8L,3.7
CASC VI 20 00 10 42.4–2.2 12.92N 88.94W 36–879 4.5,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=4.1km az=32.9.
IDC Error ellipse: s-maj=91.4km s-min=37.2km az=23.0.
CASC Error ellipse: s-maj=11.5km s-min=6.1km az=-1.0.
CASC VI 22 02 22 27.9–.86 12.97N 88.74W 28–3 3.6,3.1L
¶602386287

CASC Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0.
ISC VI 25 16 22 02.3–1.3 12.6N–.20 89.2W–.10 55 3.8b 13 7-148
ISCJB VI 25 16 22 01.2–1.7 12.7N–.20 89.2W–.10 55 3.9b ¶17206926
IDC VI 25 16 22 05.0–5.3 12.75N 89.19W 71–37 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.5km s-min=12.5km az=21.6.
IDC Error ellipse: s-maj=46.1km s-min=28.9km az=7.0.
ISC VI 25 20 05 04.2–.76 12.69N–.08 89.36W–.08 47 4.1b 180 1-148
NEIC VI 25 20 04 53.8–2.7 11.66N 89.28W 35 4.3b,3.8 ¶16702428
ISCJB VI 25 20 05 02.8–.43 12.68N–.05 89.42W–.05 47 4.1b,2.8s
IDC VI 25 20 05 03.9–3.1 12.68N 89.20W 42–28 3.9,3.9
CASC VI 25 20 05 05.1–2.5 12.82N 89.30W 36–999 4.3b,4.1
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=41.3km s-min=15.9km az=172.0. Felt [I] at La Libertad, El Salvador.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.1km az=44.4.
IDC Error ellipse: s-maj=38.4km s-min=20.9km az=63.0.
CASC Error ellipse: s-maj=36.2km s-min=25.4km az=-1.0.
CASC VI 29 01 22 01.5–2.3 12.63N 88.28W 35–999 3.8,3.6L
¶602386318

CASC Error ellipse: s-maj=10.9km s-min=6.6km az=-1.0.

(77) Off coast of Costa Rica.

CASC I 06 17 51 26.1–1.2 10.50N 86.53W 26–8 4.2
¶601907036

CASC Error ellipse: s-maj=4.5km s-min=5.9km az=-1.0.
ISC II 08 14 22 16.6–1.1 10.5N–.10 86.24W–.10 10 3.5b 21 1-68
ISCJB II 08 14 22 15.1–1.0 10.4N–.10 86.29W–.09 10 3.4b,3.0s ¶601907973
CASC II 08 14 22 16.9–2.1 10.34N 86.39W 36–999 4.5,2.7L
IDC II 08 14 22 28.0–9.9 12.76N 85.79W 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=4.5km az=38.5.
CASC Error ellipse: s-maj=10.8km s-min=10.9km az=-1.0.
IDC Error ellipse: s-maj=236.4km s-min=86.3km az=10.0.
CASC II 10 12 02 13.7–2.4 10.17N 86.34W 15–15 4.5,2.6L
¶601908036

CASC Error ellipse: s-maj=13.7km s-min=13.5km az=-1.0.
CASC II 10 14 59 30.5–1.6 10.45N 86.62W 1–11 4.4,3.6L
¶601908038

CASC Error ellipse: s-maj=7.2km s-min=6.2km az=-1.0.
CASC II 10 15 15 47.5–2.5 10.32N 86.66W 8–25 4.2,3.0L
¶601908039

CASC Error ellipse: s-maj=14.4km s-min=18.2km az=-1.0.
CASC II 26 11 23 46.6–1.7 8.96N 84.05W 0–7 3.5
¶601908535

CASC Error ellipse: s-maj=10.8km s-min=10.3km az=-1.0.
CASC II 26 13 21 11.7–2.5 8.89N 84.08W 21–9 4.1
¶601908537

CASC Error ellipse: s-maj=7.4km s-min=8.5km az=-1.0.
CASC III 11 12 12 23.5–11 7.68N 83.23W 20–302 3.9
¶602002961

CASC Error ellipse: s-maj=124.9km s-min=245.9km az=-1.0.
CASC IV 03 03 04 04.6–1.3 8.87N 84.09W 7–12 3.5
¶602385135

CASC Error ellipse: s-maj=4.9km s-min=5.2km az=-1.0.
CASC IV 05 01 58 02.5–3.4 10.38N 86.42W 35–999 4.0
¶602385142

CASC Error ellipse: s-maj=23.1km s-min=21.1km az=-1.0.
CASC IV 19 11 57 15.1–6.6 10.19N 87.08W 0–80 3.8
¶602385188

CASC Error ellipse: s-maj=142.8km s-min=196.5km az=-1.0.
CASC IV 23 13 54 50.3–6.6 10.24N 86.94W 30–177 4.2,3.4L
¶602385203

CASC Error ellipse: s-maj=65.7km s-min=110.2km az=-1.0.
CASC V 15 15 08 30.8–3.6 10.49N 86.24W 36–999 4.1,2.4L
¶602385662

CASC Error ellipse: s-maj=31.5km s-min=41.2km az=-1.0.
ISC VI 07 16 35 20.5–.74 10.44N–.06 87.17W–.06 23 3.9b,3.4s 45 2-151
IDC VI 07 16 35 16.9–1.1 10.34N 87.14W 0 4.1,3.9 ¶17205498
ISCJB VI 07 16 35 18.5–.66 10.37N–.05 87.23W–.04 23 3.8b,3.3s
CASC VI 07 16 35 20.2–2.3 10.40N 87.21W 84–78 4.1,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=41.4km s-min=19.6km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.1km az=35.6.
CASC Error ellipse: s-maj=18.6km s-min=17.1km az=-1.0.
ISC VI 07 20 51 29.4–.63 10.98N–.06 86.74W–.06 30 4.4b 64 1-150
ISCJB VI 07 20 51 26.6–.57 10.84N–.05 86.85W–.05 30 4.3b,3.0s ¶16581032
IDC VI 07 20 51 27.3–1.2 11.76N 85.98W 0 4.1,4.0L
CASC VI 07 20 51 29.5–2.5 11.00N 86.80W 22–17 4.4b,4.3
NEIC VI 07 20 51 34.1–1.1 11.39N 86.72W 55–8 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.8km az=39.9.
IDC Error ellipse: s-maj=52.8km s-min=23.5km az=47.0.
CASC Error ellipse: s-maj=11.3km s-min=14.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=9.1km az=215.0.
CASC VI 18 04 16 54.4–2.0 10.94N 86.84W 4–8 4.2,3.0L
¶602386267

CASC Error ellipse: s-maj=5.7km s-min=5.9km az=-1.0.
ISC VI 29 19 28 44.7–.73 9.85N–.07 85.67W–.06 35 4.2b,3.5s 43 1-152
CASC VI 29 19 28 39.5–2.6 9.63N 85.80W 12–15 4.3b,4.2 ¶16731802
IDC VI 29 19 28 41.0–1.4 10.71N 84.89W 0 4.3,4.0b
ISCJB VI 29 19 28 41.8–.70 9.75N–.07 85.78W–.04 33 4.1b,3.4s
NEIC VI 29 19 28 42.6–.73 10.88N 84.68W 10 4.3b,3.4s
ISC Event type se.
CASC Error ellipse: s-maj=9.7km s-min=8.8km az=-1.0.
IDC Error ellipse: s-maj=84.1km s-min=33.0km az=48.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=4.9km az=16.3.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=14.6km az=54.0.

(78) Costa Rica.

CASC I 06 04 59 02.8–1.8 8.31N 83.01W 13–8 3.8
¶601907034

CASC Error ellipse: s-maj=9.8km s-min=3.6km az=-1.0.
CASC I 07 00 36 35.8–2.4 9.30N 83.26W 14–294 3.6
¶601907068

CASC Error ellipse: s-maj=9.4km s-min=8.4km az=-1.0.
CASC I 22 11 17 51.0–2.3 10.67N 85.81W 52–20 4.1,2.7L
¶601907465

CASC Error ellipse: s-maj=8.2km s-min=15.3km az=-1.0.
CASC I 30 22 33 52.9–2.3 9.34N 83.67W 16–10 3.6
¶601907706

CASC Error ellipse: s-maj=5.7km s-min=5.0km az=-1.0.
ISC II 03 15 21 57.6–.78 9.90N–.07 84.10W–.06 65–6 3.3b 30 0-141
IDC II 03 15 21 44.6–4.8 9.76N 83.15W 0 4.0,3.9L ¶16328670
NEIC II 03 15 21 54.8–1.2 9.80N 83.86W 63–11 4.0,3.9L
ISCJB II 03 15 21 57.8–.45 9.92N–.07 84.12W–.06 69–5 3.4b,3.9L
CASC II 03 15 21 58.5–2.4 9.83N 84.14W 57–9 4.1,3.4L
ISC Event type fe.
IDC Error ellipse: s-maj=104.1km s-min=66.9km az=6.0.
NEIC Event type fe. Error ellipse: s-maj=40.0km s-min=12.0km az=201.0. Felt at Escazu.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=4.7km az=37.1.
CASC Error ellipse: s-maj=5.7km s-min=5.1km az=-1.0.
CASC II 07 01 01 41.0–2.5 8.56N 83.09W 13–5 3.8
¶601907932

CASC Error ellipse: s-maj=7.2km s-min=4.7km az=-1.0.
CASC II 08 02 57 37.2–2.7 8.55N 83.06W 48–71 3.6
¶601907971

CASC Error ellipse: s-maj=40.3km s-min=30.0km az=-1.0.
CASC II 10 06 07 14.8–1.8 8.71N 83.14W 3–12 3.5
¶601908035

CASC Error ellipse: s-maj=17.7km s-min=3.7km az=-1.0.
CASC II 11 02 28 23.4–1.9 8.62N 83.18W 13–5 3.7
¶601908069

CASC Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0.
CASC II 11 23 23 14.7–1.9 8.84N 83.07W 20–11 3.5
¶601908071

CASC Error ellipse: s-maj=5.7km s-min=4.3km az=-1.0.
CASC II 12 04 02 43.7–1.8 9.83N 84.14W 53–14 3.6
¶601908105

CASC Error ellipse: s-maj=14.1km s-min=7.0km az=-1.0.
IDC II 14 15 11 39.9–1.2 9.24N 83.72W 0 4.1,3.9
¶17192248

IDC Error ellipse: s-maj=76.3km s-min=24.8km az=71.0.
CASC II 18 20 15 45.5–1.9 9.02N 84.14W 14–15 4.0
¶601908295

CASC Error ellipse: s-maj=4.7km s-min=5.6km az=-1.0.
CASC II 20 13 06 57.2–2.0 8.97N 84.00W 6–11 4.2,3.1L
¶601908351

CASC Error ellipse: s-maj=8.0km s-min=7.4km az=-1.0.
ISC II 21 01 31 35.5–.55 10.29N–.05 84.88W–.05 66–4 4.6b 580 0-141
IDC II 21 01 31 34.2–.59 10.48N 84.82W 56–6 4.3,4.2 ¶16245264
ISCJB II 21 01 31 35.6–.26 10.34N–.03 84.84W–.03 81–2 4.5b,4.2
CASC II 21 01 31 36.0–1.4 10.26N 84.89W 58–6 4.7b,4.7
NEIC II 21 01 31 36.5–.43 10.27N 84.87W 74–4 4.8,4.7b
BJI II 21 01 31 37.4 10.30N 84.90W 71 5.3b,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=16.4km s-min=10.7km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=2.5km az=36.1.
CASC Error ellipse: s-maj=6.4km s-min=5.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=3.3km az=207.0. Felt [IV] at Atenas, Miramar, Nicoya and San Ramon; [III] at Alajuela, Curridabat, Escazu, Grecia, Naranjo and San Jose; [II] at Desamparados, Heredia, Jaco, Puntarenas, San Rafael, Santa Ana and Tilaran. Felt in Alajuela, Guanacaste, southern Heredia, Puntarenas and San Jose. Moment Tensor Solution. Best double couple: NP1:ϕ_s111.00000°,δ45.00000°,λ2.00000°. NP2: ϕ_s20.00000°,δ89.00000°,λ135.00000°. Principal axes: T 0.8200,Plg31.0000°,Azm326.0000°; N 0.3000,Plg45.0000°,Azm199.0000°; P -1.1200,Plg29.0000°,Azm75.0000°
CASC II 24 05 12 09.3–1.6 10.32N 83.82W 68–19 3.6
¶601908483

CASC Error ellipse: s-maj=12.9km s-min=8.0km az=-1.0.
CASC II 24 07 02 18.8–2.7 8.55N 83.33W 6–10 4.1
¶601908484

CASC Error ellipse: s-maj=8.8km s-min=6.3km az=-1.0.
CASC II 24 10 03 18.6–2.7 8.61N 83.08W 15–13 3.9
¶601908485

CASC Error ellipse: s-maj=8.0km s-min=4.3km az=-1.0.
CASC II 25 02 20 53.7–5.0 8.12N 83.75W 0–14 4.2
¶601908511

CASC Error ellipse: s-maj=22.0km s-min=14.6km az=-1.0.
ISC II 26 11 11 36.5–.44 9.17N–.06 83.99W–.05 39–2 4.3b,3.5s 97 0-152
IDC II 26 11 11 32.2–1.0 9.58N 83.67W 0 4.3,4.1 ¶16160467
CASC II 26 11 11 32.4–1.8 8.95N 84.06W 4 4.6b,4.6
ISCJB II 26 11 11 35.8–.44 9.20N–.06 83.95W–.04 48–3 4.3b,3.6s
BJI II 26 11 11 37.2 9.30N 83.90W 36 4.6,3.6s
NEIC II 26 11 11 37.2–.85 9.35N 83.88W 36–8 4.6b,3.6s
ISC Event type fe.
IDC Error ellipse: s-maj=32.1km s-min=12.1km az=27.0.
CASC Error ellipse: s-maj=5.1km s-min=4.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=3.7km az=33.3.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.2km az=217.0. Felt [II] at Quepos. Also felt at Alajuela, Curridabat, San Jose and San Juan de Dios.
CASC II 28 22 27 41.6–3.1 8.93N 83.21W 18–21 3.6
¶601908601

CASC Error ellipse: s-maj=9.4km s-min=7.3km az=-1.0.
ISC III 03 06 42 16.8–.71 9.25N–.05 84.04W–.04 47–6 4.0b,3.5s 82 0-84
NEIC III 03 06 42 15.1 9.13N 84.01W 31 4.5,4.5b ¶16193995
ISCJB III 03 06 42 16.1–.46 9.24N–.05 84.05W–.04 55–4 4.0b,3.5s
CASC III 03 06 42 16.3–1.6 9.23N 84.03W 31–4 4.5b,4.5
IDC III 03 06 42 18.1–1.4 9.38N 83.99W 59–13 4.1,4.0
ISC Event type fe.
NEIC Event type fe. Felt [IV] at San Jose and [III] at Escazu and Quepos. Felt in much of the Valle Central. After CASC.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=3.9km az=37.5.
CASC Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=27.8km s-min=11.3km az=40.0.
ISC III 04 08 14 14.4–.65 10.22N–.06 84.32W–.05 94–5 3.5b 46 0-142
IDC III 04 08 14 10.8–3.7 10.80N 83.90W 38–38 3.9,3.9 ¶16484342
ISCJB III 04 08 14 13.6–.39 10.22N–.06 84.32W–.05 100–4 3.7b,3.9
NEIC III 04 08 14 14.0 10.20N 84.30W 95 4.4,4.1b
CASC III 04 08 14 15.2–4.4 10.13N 84.21W 91–18 4.4,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=37.1km s-min=21.0km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.8km az=36.5.
NEIC Event type se. After CASC.

CASC Error ellipse: s-maj=15.0km s-min=14.2km az=-1.0.
IDC III 08 15 01 05.4–6.2 10.70N 84.23W 0 4.0,3.5 ¶17193472

IDC Error ellipse: s-maj=109.0km s-min=12.2km az=133.0.
CASC III 09 07 27 28.2–1.3 9.51N 84.52W 30–7 3.7 ¶602002832

CASC Error ellipse: s-maj=5.5km s-min=3.2km az=-1.0.
CASC III 11 07 23 41.9–2.2 10.14N 84.16W 80–14 3.6 ¶602002960

CASC Error ellipse: s-maj=14.8km s-min=9.9km az=-1.0.
ISC III 11 23 32 04.4–.65 10.01N–.09 84.9W–.10 33 4.1b 30 0-115
ISCJB III 11 23 32 02.5–.51 9.90N–.07 84.98W–.08 33 4.0b **¶16425293**
NEIC III 11 23 32 04.0 9.86N 85.06W 26 4.0b
IDC III 11 23 32 04.5–1.4 9.96N 84.93W 35–8 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=7.1km az=140.5.
NEIC Event type se. After UCR.
IDC Error ellipse: s-maj=28.2km s-min=14.2km az=50.0.
CASC III 13 17 34 35.1–2.1 8.68N 83.27W 10–13 3.9 ¶602003020

CASC Error ellipse: s-maj=10.0km s-min=5.5km az=-1.0.
CASC III 25 02 47 05.7–3.7 10.09N 83.72W 2–11 3.8 ¶602003477

CASC Error ellipse: s-maj=10.5km s-min=10.2km az=-1.0.
CASC III 25 03 27 54.0–2.2 8.98N 83.03W 8–22 3.5 ¶602003478

CASC Error ellipse: s-maj=6.8km s-min=11.3km az=-1.0.
CASC III 25 10 30 34.9–1.6 9.32N 83.77W 60–14 3.6 ¶602003480

CASC Error ellipse: s-maj=8.0km s-min=5.8km az=-1.0.
CASC III 26 00 11 10.1–2.1 10.64N 85.67W 53–14 4.1,3.3L ¶602003539

CASC Error ellipse: s-maj=6.4km s-min=8.2km az=-1.0.
CASC IV 01 02 30 38.2–1.6 8.66N 83.20W 9–12 3.8 ¶602385125

CASC Error ellipse: s-maj=6.4km s-min=3.0km az=-1.0.
CASC IV 01 07 54 11.7–4.1 9.38N 83.22W 13–20 3.9 ¶602385128

CASC Error ellipse: s-maj=10.0km s-min=7.5km az=-1.0. Moment Tensor Solution. NP1: ϕ_s193.34000°,δ43.96000°,λ-22.18000°.
CASC IV 07 00 59 13.8–2.1 8.97N 83.97W 1–9 4.2 ¶602385146

CASC Error ellipse: s-maj=5.9km s-min=5.1km az=-1.0.
CASC IV 07 18 29 21.9–2.0 9.34N 83.25W 13–8 3.9 ¶602385147

CASC Error ellipse: s-maj=4.9km s-min=3.8km az=-1.0.
CASC IV 08 00 32 23.9–2.6 9.36N 84.46W 2–10 3.7 ¶602385148

CASC Error ellipse: s-maj=7.2km s-min=4.4km az=-1.0.
CASC IV 11 21 34 28.3–2.8 9.74N 83.26W 4–9 3.7,2.6L ¶602385157

CASC Error ellipse: s-maj=7.5km s-min=5.7km az=-1.0.
CASC IV 12 03 03 31.0–2.2 9.06N 84.18W 24–10 3.5 ¶602385162

CASC Error ellipse: s-maj=9.5km s-min=7.3km az=-1.0.
CASC IV 12 06 11 33.4–2.7 9.45N 84.85W 13–11 3.9 ¶602385163

CASC Error ellipse: s-maj=9.3km s-min=6.7km az=-1.0.
CASC IV 12 06 44 05.3–2.8 9.46N 84.83W 3–10 3.7 ¶602385164

CASC Error ellipse: s-maj=11.5km s-min=7.6km az=-1.0.
CASC IV 12 17 08 14.2–2.4 8.70N 83.05W 24–11 3.9 ¶602385167

CASC Error ellipse: s-maj=14.3km s-min=7.8km az=-1.0.
ISC IV 19 03 44 58.0–1.8 9.67N–.06 84.69W–.05 17–13 3.4b 27 0-84
NEIC IV 19 03 45 00.8–2.1 9.69N 84.78W 35 4.2 **¶16532041**
CASC IV 19 03 45 01.4–1.8 9.68N 84.69W 32–5 4.2
IDC IV 19 03 45 04.0–1.1 10.84N 84.97W 0 3.7,3.5
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=53.0km s-min=15.6km az=210.0. Felt at Colon, Herradura, Jaco and Paquera.
CASC Error ellipse: s-maj=5.7km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=42.9km s-min=8.7km az=84.0.
CASC IV 19 08 26 13.3–3.4 8.42N 83.85W 15–16 3.8 ¶602385187

CASC Error ellipse: s-maj=11.9km s-min=8.2km az=-1.0.
ISC IV 19 12 42 44.1–2.0 9.43N–.07 84.49W–.05 16–12 3.6b 27 0-141
IDC IV 19 12 42 45.9–3.4 10.55N 84.05W 0 4.0,3.6 **¶17201499**
CASC IV 19 12 42 46.8–3.0 9.47N 84.42W 27–9 4.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=69.7km s-min=12.1km az=149.0.
CASC Error ellipse: s-maj=9.6km s-min=7.2km az=-1.0.
CASC IV 19 15 34 42.6–2.7 8.64N 83.32W 5–19 3.5 ¶602385189

CASC Error ellipse: s-maj=26.0km s-min=11.7km az=-1.0.
CASC IV 20 14 38 26.0–2.7 9.69N 83.21W 3–13 3.6 ¶602385191

CASC Error ellipse: s-maj=13.5km s-min=8.2km az=-1.0.
ISC IV 21 14 45 36.9–.59 10.16N–.06 84.20W–.05 87–5 4.1b 80 0-151
NEIC IV 21 14 45 35.4–1.1 9.80N 84.29W 96–8 4.1b **¶16505467**
IDC IV 21 14 45 35.2–1.2 10.23N 84.08W 72–16 4.5s,4.5
ISCJB IV 21 14 45 36.2–.28 10.17N–.05 84.23W–.04 97–3 3.9b,4.5
CASC IV 21 14 45 37.3–1.4 10.18N 84.19W 79–6 4.3,4.1b
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=26.0km s-min=9.7km az=203.0. Felt [III] in the Valle Central.
IDC Error ellipse: s-maj=42.8km s-min=18.3km az=23.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=4.0km az=33.6.
CASC Error ellipse: s-maj=4.1km s-min=3.7km az=-1.0.
ISC V 03 01 11 27.0–1.1 10.6N–.20 85.8W–.10 33 4.3b 149 1-151
IDC V 03 01 11 17.9–1.1 10.14N 85.55W 0 4.3,4.1 **¶16577963**
ISCJB V 03 01 11 25.1–.90 10.6N–.10 85.78W–.07 33 4.2b,4.1
NEIC V 03 01 11 29.5–1.1 10.67N 85.85W 51–11 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=38.1km s-min=21.6km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=17.8km s-min=7.9km az=23.1.
NEIC Event type se. Error ellipse: s-maj=24.4km s-min=11.1km az=210.0.
ISC V 10 16 56 42.6–1.3 9.07N–.08 83.95W–.05 11–9 4.3s,3.5b 20 0-97
IDC V 10 16 56 14.4–3.6 5.32N 82.11W 0 4.4,4.3s **¶602385474**
ISCJB V 10 16 56 40.8–1.6 8.95N–.07 84.05W–.05 5–9 4.4s,3.4b
CASC V 10 16 56 42.6–2.7 9.07N 83.94W 6–12 4.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=115.8km s-min=83.7km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=4.7km az=33.8.
CASC Error ellipse: s-maj=7.1km s-min=6.2km az=-1.0.
CASC V 11 10 28 07.1–1.7 9.12N 83.89W 26–5 3.6 ¶602385500

CASC Error ellipse: s-maj=5.4km s-min=4.5km az=-1.0.
ISC V 13 22 47 55.3–.36 10.11N–.03 84.19W–.03 77–2 5.5b 1650 0-165
MOS V 13 22 47 52.0–1.2 10.18N 84.21W 55 5.6b,5.1s **¶602607319**
IDC V 13 22 47 52.5–1.2 10.30N 84.12W 52–9 5.4,5.3
CASC V 13 22 47 53.9–7.4 10.02N 84.19W 74–15 5.3L,4.6
NEIC V 13 22 47 54.0 9.95N 84.31W 73 5.9W,5.9W
ISCJB V 13 22 47 54.9–.16 10.16N–.02 84.28W–.01 88–1 5.4b,5.9W
GCMT V 13 22 47 54.0–.10 10.01N 84.31W 85–0 6.0W,5.9W
NEIC V 13 22 47 55.0–.00 10.10N 84.26W 70 6.0W,5.9W
BJI V 13 22 47 56.5 10.10N 84.30W 96 5.5b,5.9W
ISC Event type se.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=101.0.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=57.0.
CASC Error ellipse: s-maj=17.7km s-min=13.0km az=-1.0.

NEIC Event type fe. Felt [VI] at Santiago and Turrucares and [V] throughout the Valle Central. Felt in most of Costa Rica. Felt [II] at David, Panama. Felt widely in western Panama and at Bluefields and San Juan del Sur, Nicaragua. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After UCR. Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ65.00000°,λ10.00000°. NP2: ϕ_s31.00000°,δ81.00000°,λ155.00000°. Principal axes: T 1.0200,Plg24.0000°,Azm345.0000° ; N 0.0000,Plg63.0000°,Azm192.0000°; P -1.0200,Plg11.0000°,Azm80.0000° Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.03 $M_{\theta\theta}$5.94 $M_{\phi\phi}$-7.96 $M_{r\theta}$4.76 $M_{\theta\phi}$2.40 $M_{\phi r}$2.64 Best double couple: NP1:ϕ_s131.00000°,δ58.00000°,λ18.00000°. NP2: ϕ_s31.00000°,δ75.00000°,λ146.00000°. Principal axes: T 9.8000,Plg34.0000°,Azm347.0000° ; N -1.0700,Plg54.0000°,Azm190.0000°; P -8.7300,Plg11.0000°,Azm84.0000° $M_0$9.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ71.00000°,λ16.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ160.00000°. Principal axes: T Plg25.0000°,Azm352.0000°; N Plg0.0000°,Azm0.0000°; P Plg3.0000° ,Azm83.0000°
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=1.6km az=33.5.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c280; s131,c385;Duration: 2τ4 Moment tensor: Scale 10^{18} Nm; M_{rr}0.20±.01 $M_{\theta\theta}$0.76±.01; $M_{\phi\phi}$-0.96±.01; $M_{r\theta}$0.54±.01; $M_{\theta\phi}$0.27±.01; $M_{\phi r}$0.36±.01; Best double couple: NP1:ϕ_s33.00000°,δ78.00000°,λ146.00000°. NP2:ϕ_s131.00000° ,δ57.00000°,λ14.00000°. Principal axes: T 1.1740,Plg32.0000°,Azm347.0000° ; N -0.0990,Plg54.0000°,Azm196.0000°; P -1.0750,Plg14.0000°,Azm86.0000° $M_0$1.12500×10^{18}
NEIC Event type se. Moment Tensor Solution. s54 Moment tensor: Scale 10^{17}Nm; M_{rr}1.27 $M_{\theta\theta}$5.84 $M_{\phi\phi}$-7.11 $M_{r\theta}$5.29 $M_{\theta\phi}$1.45 $M_{\phi r}$2.34 Best double couple: NP1:ϕ_s36.00000°,δ77.00000° ,λ144.00000°. NP2:ϕ_s135.00000°,δ55.00000°,λ15.00000°. Principal axes: T 9.6900,Plg33.0000°,Azm349.0000°; N -1.9700,Plg52.0000°,Azm199.0000° ; P -7.7100,Plg14.0000°,Azm89.0000° $M_0$8.90000×10^{17}
CASC V 14 01 45 02.0–.82 9.98N 84.29W 71–4 3.6 ¶602385644

CASC Error ellipse: s-maj=4.7km s-min=2.7km az=-1.0.
CASC V 17 02 57 44.7–1.6 8.58N 83.81W 16–11 3.6 ¶602385694

CASC Error ellipse: s-maj=8.3km s-min=5.6km az=-1.0.
CASC V 18 11 12 09.4–2.3 10.05N 84.30W 61–14 3.5 ¶602385733

CASC Error ellipse: s-maj=9.9km s-min=6.3km az=-1.0.
CASC V 25 11 44 55.1–1.2 8.68N 83.60W 13–9 3.7 ¶602386034

CASC Error ellipse: s-maj=5.6km s-min=5.0km az=-1.0.
ISC VI 01 15 07 36.7–1.3 9.55N–.06 84.13W–.05 34–2 20 0-11
ISCJB VI 01 15 07 35.6–.56 9.56N–.08 84.10W–.05 50–7 **¶602386194**
CASC VI 01 15 07 36.2–1.1 9.53N 84.12W 35–3 4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=5.6km az=24.2.
CASC Error ellipse: s-maj=3.7km s-min=3.3km az=-1.0.
ISC VI 02 11 24 19.0–1.1 10.7N–.20 85.9W–.20 31 3.6b 18 1-140
CASC VI 02 11 24 15.9–1.2 10.49N 86.14W 34–15 4.0,3.2L **¶17204993**
IDC VI 02 11 24 20.8–2.1 11.02N 86.95W 0 4.1,3.7
ISC Event type ke.
CASC Error ellipse: s-maj=6.8km s-min=8.2km az=-1.0.
IDC Error ellipse: s-maj=398.2km s-min=25.8km az=53.0.
CASC VI 08 16 21 21.5–2.7 9.77N 83.11W 19–18 3.5 ¶602386217

CASC Error ellipse: s-maj=15.3km s-min=10.6km az=-1.0.
CASC VI 09 00 07 06.0–1.2 9.35N 83.87W 0–6 3.8,3.0L ¶602386224

CASC Error ellipse: s-maj=3.7km s-min=3.6km az=-1.0.
CASC VI 10 14 40 16.0–1.3 9.95N 84.61W 55–6 3.8 ¶602386233

CASC Error ellipse: s-maj=4.0km s-min=5.6km az=-1.0.
CASC VI 10 20 11 39.1–1.7 8.60N 83.23W 8–17 3.7 ¶602386234

CASC Error ellipse: s-maj=14.8km s-min=5.4km az=-1.0.
CASC VI 20 12 15 50.5–1.0 9.36N 83.87W 6–8 3.8 ¶602386280

CASC Error ellipse: s-maj=2.6km s-min=2.1km az=-1.0.
CASC VI 23 00 58 27.8–1.9 8.94N 83.53W 25–8 3.6 ¶602386290

CASC Error ellipse: s-maj=7.3km s-min=6.2km az=-1.0.
CASC VI 23 15 08 36.9–1.0 9.60N 83.79W 79–4 3.5 ¶602386291

CASC Error ellipse: s-maj=4.3km s-min=3.1km az=-1.0.
CASC VI 26 23 35 06.3–1.4 9.96N 84.03W 67–5 3.9,2.6L ¶602386305

CASC Error ellipse: s-maj=4.6km s-min=4.7km az=-1.0.
CASC VI 27 09 40 46.4–2.6 9.06N 84.04W 1–13 4.3,3.0L ¶602386309

CASC Error ellipse: s-maj=7.5km s-min=8.4km az=-1.0.
ISC VI 28 23 44 43.1–.68 10.73N–.03 85.12W–.03 12–4 4.8b,3.8s 522 0-141
IDC VI 28 23 44 38.0–2.0 10.30N 85.17W 0 4.4,4.2 **¶16711269**
CASC VI 28 23 44 41.9–1.8 10.80N 85.12W 6–5 4.8b,4.3
ISCJB VI 28 23 44 42.2–.32 10.80N–.02 85.11W–.02 12–2 4.7b,3.9s
NEIC VI 28 23 44 47.4–1.3 10.52N 85.01W 56–12 4.8b,4.4
ISC Event type fe.
IDC Error ellipse: s-maj=53.1km s-min=24.7km az=27.0.
CASC Error ellipse: s-maj=1.8km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.5km az=135.7.
NEIC Event type fe. Error ellipse: s-maj=13.6km s-min=9.1km az=217.0. Felt at Alajuela, Bagaces, Liberia, Naranjo and Upala.
CASC VI 29 00 36 56.0–1.6 10.77N 85.15W 15–7 4.3,3.6L ¶602386317

CASC Error ellipse: s-maj=3.0km s-min=5.0km az=-1.0.
CASC VI 29 04 39 22.6–2.0 10.80N 85.13W 10–4 3.6,3.2L ¶602386319

CASC Error ellipse: s-maj=3.2km s-min=2.8km az=-1.0.
CASC VI 29 04 41 44.1–2.5 10.78N 85.12W 13–15 4.2,3.8L ¶602386320

CASC Error ellipse: s-maj=4.5km s-min=6.8km az=-1.0.

(79) North of Panama.

ISC I 24 19 58 13.3–.58 10.54N–.07 76.38W–.05 35 3.6b 28 2-151
IDC I 24 19 58 07.0–1.1 10.25N 76.48W 0 4.0,3.8 **¶17190919**
ISCJB I 24 19 58 11.4–.47 10.45N–.04 76.45W–.04 33 3.6b,3.1s
RSNC I 24 19 58 14.1–.69 10.48N 76.45W 60–55 3.6L,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=38.7km s-min=21.7km az=20.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=40.1.
RSNC Error ellipse: s-maj=13.7km s-min=10.8km az=-1.0.

(80) Panama-Costa Rica border region.

CASC I 01 08 58 59.5–2.7 8.28N 82.74W 6–16 3.7 ¶601906885

CASC Error ellipse: s-maj=13.9km s-min=11.0km az=-1.0.
CASC I 06 17 21 59.8–3.3 8.39N 83.00W 27–10 3.7 ¶601907035

CASC Error ellipse: s-maj=13.7km s-min=9.0km az=-1.0.
CASC I 08 09 21 11.8–2.5 8.28N 82.74W 6–14 3.8,3.1W ¶601907103

CASC Error ellipse: s-maj=12.5km s-min=9.0km az=-1.0.
CASC I 09 02 58 39.1–2.9 8.52N 82.96W 33–7 3.8,3.1W ¶601907142

CASC Error ellipse: s-maj=9.4km s-min=5.9km az=-1.0.
CASC I 13 19 47 20.3–2.0 8.44N 82.66W 54–34 4.1 ¶601907246

CASC Error ellipse: s-maj=38.0km s-min=24.5km az=-1.0.
CASC I 14 04 44 16.1–2.7 8.47N 82.96W 0–21 3.6 ¶601907272

CASC Error ellipse: s-maj=44.3km s-min=6.7km az=-1.0.
ISC I 25 21 13 38.9–1.5 8.69N–.08 82.16W–.05 17–11 3.4b 39 0-72
ISCJB I 25 21 13 37.4–.80 8.62N–.08 82.08W–.03 1–6 4.3s,3.8b **¶17190987**

CASC I 25 21 13 38.1–3.0 8.56N 82.13W 6–9 4.2,3.8b
IDC I 25 21 13 39.9–3.4 9.39N 81.83W 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=3.3km az=17.9.
CASC Error ellipse: s-maj=17.4km s-min=5.9km az=-1.0.
IDC Error ellipse: s-maj=75.6km s-min=26.8km az=6.0.
CASC I 28 06 26 34.4–2.4 8.61N 82.15W 6–8 4.0
¶601907634

CASC Error ellipse: s-maj=9.3km s-min=4.3km az=-1.0.
UPA I 29 05 32 33.6 8.29N 82.74W 10 3.4W
CASC I 29 05 32 34.3–1.4 8.30N 82.75W 6–16 3.8,3.4W **¶601907675**
CASC Error ellipse: s-maj=14.5km s-min=9.8km az=-1.0.
CASC II 04 19 35 14.3–2.2 9.25N 82.68W 20–18 3.5
¶601907844

CASC Error ellipse: s-maj=8.5km s-min=10.4km az=-1.0.
CASC II 06 18 54 33.1–2.3 8.31N 82.61W 14–12 3.7
¶601907897

CASC Error ellipse: s-maj=10.1km s-min=9.9km az=-1.0.
ISC II 07 05 46 25.7–.72 8.42N–.04 82.80W–.04 15–4 4.7b,3.8s 731 0-153
ISCJB II 07 05 46 23.9–.17 8.53N–.03 82.72W–.02 10 4.6b,3.9s **¶16362978**
MOS II 07 05 46 24.6–1.1 8.45N 82.72W 16 5.0b,3.9s
CASC II 07 05 46 25.1–2.8 8.45N 82.85W 1–8 4.7b,4.5L
NEIC II 07 05 46 25.6–.29 8.41N 82.78W 10 4.7W,4.7b
IDC II 07 05 46 29.8–2.3 8.44N 82.90W 50–21 4.4,4.3
BJI II 07 05 46 29.0 8.60N 82.70W 34 5.3s,5.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.2km az=31.0.
MOS Error ellipse: s-maj=14.1km s-min=5.6km az=115.0.
CASC Error ellipse: s-maj=7.9km s-min=4.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.5km az=210.0. Felt [III] at Boquete, David and Panama, Panama. Also felt at Chiriqui Grande, Dolega, La Estrella, Puerto Armuelles and Volcan. Felt at Corredor, Golfito and San Vito, Costa Rica. Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ81.00000°,λ151.00000°. NP2:ϕ_s117.00000° ,δ62.00000°,λ11.00000°. Principal axes: T 1.3500,Plg27.0000°,Azm336.0000° ; N -0.3400,Plg60.0000°,Azm185.0000°; P -1.0100,Plg13.0000°,Azm72.0000°
IDC Error ellipse: s-maj=15.2km s-min=10.9km az=59.0.
CASC II 07 06 03 30.5–2.4 8.30N 82.85W 13–11 3.7
¶601907933

CASC Error ellipse: s-maj=7.4km s-min=4.9km az=-1.0.
CASC II 08 06 37 48.6–1.9 8.61N 82.99W 6–7 3.8
¶601907972

CASC Error ellipse: s-maj=5.5km s-min=3.0km az=-1.0.
CASC II 10 12 17 35.8–2.1 8.43N 82.44W 13–11 3.9
¶601908037

CASC Error ellipse: s-maj=11.3km s-min=18.8km az=-1.0.
CASC II 11 20 57 41.6–2.2 8.28N 82.71W 28–7 3.5
¶601908070

CASC Error ellipse: s-maj=10.4km s-min=9.3km az=-1.0.
CASC II 21 12 03 10.5–1.9 8.25N 82.95W 22–6 3.7
¶601908392

CASC Error ellipse: s-maj=9.8km s-min=6.4km az=-1.0.
CASC II 24 03 20 32.7–2.4 8.36N 82.80W 8–6 3.7
¶601908482

CASC Error ellipse: s-maj=6.2km s-min=4.4km az=-1.0.
CASC II 26 00 32 35.6–1.8 9.20N 82.76W 11–6 3.7
¶601908533

CASC Error ellipse: s-maj=5.5km s-min=5.7km az=-1.0.
ISC II 28 22 09 04.7–3.3 10.00N–.08 82.79W–.05 16–22 3.7b,3.4s 35 1-152
ISCJB II 28 22 09 01.5–1.9 10.08N–.06 82.71W–.03 2–14 3.6b,3.4s **¶17193023**
IDC II 28 22 09 02.9–1.2 10.16N 82.70W 0 4.0,3.9
CASC II 28 22 09 04.2–3.4 10.02N 82.79W 13–25 4.6,3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.7km az=3.3.
IDC Error ellipse: s-maj=39.6km s-min=16.7km az=19.0.
CASC Error ellipse: s-maj=12.0km s-min=7.4km az=-1.0.
CASC III 06 04 21 04.3–1.2 9.35N 82.83W 9–8 3.6
¶602002666

CASC Error ellipse: s-maj=5.1km s-min=6.0km az=-1.0.
CASC III 06 09 02 09.4–2.4 9.10N 82.64W 14–18 3.7
¶602002668

CASC Error ellipse: s-maj=7.7km s-min=12.1km az=-1.0.
ISC III 10 04 26 46.2–.44 8.12N–.06 82.83W–.04 10 4.5b,3.6s 139 2-154
ISCJB III 10 04 26 45.4–.33 8.13N–.05 82.82W–.04 10 4.3b,3.7s **¶16359832**
IDC III 10 04 26 45.3–.83 8.49N 82.72W 0 4.3,4.2
BJI III 10 04 26 45.5 8.10N 82.80W 10 5.2b,4.2
CASC III 10 04 26 46.3–1.7 8.08N 82.66W 25 4.8,4.6b
NEIC III 10 04 26 48.0–2.2 8.01N 82.83W 25–16 5.0L,5.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=3.0km az=31.6.
IDC Error ellipse: s-maj=35.3km s-min=14.1km az=41.0.
CASC Error ellipse: s-maj=22.6km s-min=25.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=6.5km az=209.0. Felt [III] at Boquete, Panama. Also felt at Alanje, David, Horconcitos, Potrerillos Arriba and Volcan. Felt at Buenos Aires, Cahuita, San Isidro and San Vito, Costa Rica.
CASC III 25 07 34 32.8–2.0 8.20N 82.71W 23–5 4.1
¶602003479

CASC Error ellipse: s-maj=5.8km s-min=3.4km az=-1.0.
ISC III 27 02 47 38.1–1.3 8.29N–.08 82.61W–.04 25–10 3.8b 41 0-72
ISCJB III 27 02 47 39.7–.91 8.24N–.06 82.77W–.03 31–4 3.8b,3.3s **¶16481120**
IDC III 27 02 47 41.0–5.6 9.50N 82.32W 0 4.3L,4.0
CASC III 27 02 47 41.0–1.9 8.33N 82.75W 27–4 4.3,4.0
NEIC III 27 02 47 46.2–1.1 9.28N 82.50W 42–11 4.0b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=4.3km az=19.7.
IDC Error ellipse: s-maj=119.4km s-min=33.2km az=176.0.
CASC Error ellipse: s-maj=5.9km s-min=3.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=28.7km s-min=9.4km az=206.0.
CASC IV 06 04 04 42.5–2.2 8.65N 82.68W 23–4 3.6
¶602385144

CASC Error ellipse: s-maj=9.4km s-min=2.9km az=-1.0.
CASC IV 11 20 14 36.3–2.0 8.64N 82.86W 54–19 3.8
¶602385156

CASC Error ellipse: s-maj=23.0km s-min=16.8km az=-1.0.
CASC IV 16 16 45 47.0–1.6 8.67N 82.33W 11–6 3.7
¶602385176

CASC Error ellipse: s-maj=21.6km s-min=10.2km az=-1.0.
CASC IV 18 08 10 07.2–2.5 8.51N 82.67W 57–21 3.9
¶602385182

CASC Error ellipse: s-maj=33.5km s-min=21.9km az=-1.0.
CASC IV 25 00 07 05.8–3.0 8.26N 82.63W 36–10 3.7
¶602385204

CASC Error ellipse: s-maj=12.9km s-min=10.0km az=-1.0.
ISC IV 25 00 49 21.4–.63 8.24N–.06 82.86W–.04 20–2 4.5b 403 1-153
IDC IV 25 00 49 20.1–1.5 8.87N 82.41W 0 4.3,4.0 **¶16476076**
ISCJB IV 25 00 49 22.3–.28 8.51N–.04 82.73W–.03 28 4.5b,4.0
NEIC IV 25 00 49 22.6–2.1 8.24N 82.83W 26–15 4.5,4.5b
CASC IV 25 00 49 22.9–3.0 8.41N 82.82W 6–11 4.5,3.7L
BJI IV 25 00 49 23.4 8.30N 82.90W 29 5.0b,4.9s
ISC Event type fe.
IDC Error ellipse: s-maj=57.4km s-min=16.0km az=31.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=2.7km az=26.1.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=5.9km az=213.0. Felt [III] at Boquete and [II] at David, Panama. Also felt at Los Algarrobos. Felt at Burica, Corredor, Laurel and San Vito, Costa Rica.
CASC Error ellipse: s-maj=10.3km s-min=4.7km az=-1.0.
CASC IV 25 03 19 15.9–2.2 8.37N 82.99W 18–76 3.5
¶602385205

CASC Error ellipse: s-maj=27.9km s-min=42.3km az=-1.0.
CASC V 16 16 06 54.7–2.3 8.55N 82.74W 30–14 3.7
¶602385691

CASC Error ellipse: s-maj=16.9km s-min=16.7km az=-1.0.

ISC V 21 08 37 08.1–1.3 8.81N–.08 82.99W–.04 13–8 4.2b,3.4s 66 0-142
IDC V 21 08 37 05.9–1.3 8.92N 83.42W 0 4.1,3.9 **¶16684776**
NEIC V 21 08 37 07.0–.84 8.82N 83.16W 10 4.8L,4.5b
ISCJB V 21 08 37 08.1–.72 8.78N–.06 82.98W–.04 26–5 4.2b,3.7s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Golfito and [III] at Buenos Aires. Also felt at San Vito. Felt in Chiriqui, Panama.
ISCJB Event type fe.
CASC V 29 03 55 08.0–4.7 8.57N 82.93W 0–10 3.9
¶602386141

CASC Error ellipse: s-maj=13.3km s-min=7.5km az=-1.0.
CASC VI 03 10 40 08.2–2.3 8.31N 82.87W 15–11 3.9
¶602386203

CASC Error ellipse: s-maj=8.4km s-min=5.1km az=-1.0.
CASC VI 08 17 57 36.6–2.5 9.36N 82.67W 12–25 3.5
¶602386218

CASC Error ellipse: s-maj=13.1km s-min=17.7km az=-1.0.
CASC VI 08 18 34 47.1–2.7 9.36N 82.67W 9–24 3.6
¶602386219

CASC Error ellipse: s-maj=13.7km s-min=17.4km az=-1.0.
CASC VI 09 17 02 42.6–1.9 8.30N 82.83W 44–53 3.8
¶602386225

CASC Error ellipse: s-maj=22.3km s-min=16.0km az=-1.0.
CASC VI 20 15 24 02.4–1.2 8.93N 82.91W 7–13 3.6
¶602386281

CASC Error ellipse: s-maj=8.5km s-min=6.5km az=-1.0.
CASC VI 20 16 53 35.8–1.9 8.99N 82.87W 3–10 3.8
¶602386283

CASC Error ellipse: s-maj=11.8km s-min=9.5km az=-1.0.
CASC VI 28 12 20 55.3–2.3 8.30N 82.67W 14–13 3.8
¶602386312

CASC Error ellipse: s-maj=12.4km s-min=10.7km az=-1.0.
CASC VI 30 05 26 50.9–1.9 8.33N 82.84W 23–35 3.8
UCR VI 30 05 26 49.7 8.28N 83.02W 0 3.8 **¶602386323**
UPA VI 30 05 26 51.0 8.31N 82.63W 22 3.1W
CASC Error ellipse: s-maj=11.0km s-min=31.0km az=-1.0.

(81) Panama.

ISC I 23 19 13 03.5–1.1 8.9N–.20 81.3W–.20 35 3.7b 10 5-144
IDC I 23 19 12 59.0–2.1 8.63N 82.48W 0 3.9,3.6 **¶17190827**
ISCJB I 23 19 13 01.3–1.1 9.0N–.20 81.3W–.10 33 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 13 02 16.7–.86 9.6N–.10 79.07W–.06 58 3.3b 9 1-146
IDC II 01 13 02 09.1–1.6 9.70N 78.98W 0 3.6,3.4 **¶17191482**
ISCJB II 01 13 02 15.8–.72 9.77N–.09 79.12W–.07 58 3.2b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC II 09 03 10 33.4–.63 9.74N–.06 79.61W–.06 56 3.8b 50 1-146
CASC II 09 03 10 22.7–2.3 9.65N 78.99W 14–14 4.3,4.1b **¶16016438**
IDC II 09 03 10 26.6–1.2 9.74N 79.72W 0 3.6,3.5
ISCJB II 09 03 10 31.2–.39 9.77N–.04 79.58W–.03 56 4.5s,3.6b
BJI II 09 03 10 32.7 9.70N 79.60W 35 4.6,3.6b
NEIC II 09 03 10 32.2–.57 9.75N 79.56W 35 4.2L,4.1b
ISC Event type fe.
CASC Error ellipse: s-maj=10.6km s-min=7.9km az=-1.0.
IDC Error ellipse: s-maj=43.7km s-min=27.2km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.5km az=168.2.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=10.2km az=211.0. Felt [III] at Balboa and [II] at Ancon and Panama. Felt in Colon, Kuna Yala and Panama.
ISC II 09 06 05 00.7–.50 9.77N–.04 79.57W–.04 36–1 4.5b,3.8s 454 1-152
IDC II 09 06 04 54.6–.49 9.71N 79.55W 0 4.5,4.4 **¶16016440**
ISCJB II 09 06 04 58.6–.58 9.78N–.02 79.54W–.02 30–5 4.5b,3.8s
CASC II 09 06 05 00.6–1.8 9.69N 79.63W 34–5 4.8,4.6b
NEIC II 09 06 05 00.6–.21 9.66N 79.50W 35 4.7L,4.6b
BJI II 09 06 05 01.9 9.70N 79.60W 39 5.4b,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=11.7km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=36.6.
CASC Error ellipse: s-maj=5.1km s-min=7.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=59.0. Felt [III] at Ancon, Balboa, Panama and San Miguelito. Also felt in Cocle, Colon, Kuna Yala and Panama.
ISC II 14 11 28 50.3–.60 9.93N–.07 78.69W–.06 35 4.1b 40 1-147
ISCJB II 14 11 28 48.9–.41 9.99N–.05 78.65W–.03 33 3.9b,3.6s **¶17192237**
IDC II 14 11 28 51.0–1.2 9.70N 78.79W 48–7 4.0,4.0
CASC II 14 11 28 53.3–1.4 9.68N 78.82W 77–17 4.4L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=4.5.
IDC Error ellipse: s-maj=30.3km s-min=15.5km az=7.0.
CASC Error ellipse: s-maj=15.6km s-min=3.6km az=-1.0.
ISC III 05 08 16 46.0–1.8 9.7N–.20 78.90W–.06 52 16 1-7
ISCJB III 05 08 16 45.2–.93 9.6N–.10 78.84W–.04 52 **¶602002630**
CASC III 05 08 16 45.7–2.6 9.64N 78.86W 36–999 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=5.5km az=177.7.
CASC Error ellipse: s-maj=47.9km s-min=7.1km az=-1.0.
CASC III 14 18 39 37.9–4.3 9.27N 78.86W 13–36 3.7L
¶602003049

CASC Error ellipse: s-maj=63.7km s-min=11.1km az=-1.0.
ISC III 15 07 49 22.9–2.3 7.32N–.05 78.39W–.04 2–17 24 1-6
CASC III 15 07 49 18.1–14 6.74N 78.71W 0–84 3.6L **¶601908936**
RSNC III 15 07 49 25.7–.48 7.46N 78.41W 20–43 3.0L
ISC Event type ke.
CASC Error ellipse: s-maj=169.1km s-min=77.0km az=-1.0.
RSNC Error ellipse: s-maj=6.4km s-min=29.7km az=-1.0.
ISC III 18 08 09 00.1–1.7 7.2N–.10 78.23W–.06 23 18 2-5
ISCJB III 18 08 08 59.4–1.0 7.28N–.09 78.20W–.05 23 **¶602352147**
RSNC III 18 08 09 01.6–.46 7.19N 78.24W 32–13 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=4.8km az=25.6.
RSNC Error ellipse: s-maj=7.5km s-min=4.9km az=-1.0.
CASC III 25 18 05 20.1–.95 9.11N 79.54W 1–18 3.9
¶602003481

CASC Error ellipse: s-maj=12.8km s-min=16.2km az=-1.0.
ISC III 28 16 54 48.9–2.5 7.42N–.06 78.52W–.04 2–19 20 1-4
CASC III 28 16 54 50.3–3.3 7.14N 78.76W 4–26 3.9L **¶601909307**
RSNC III 28 16 54 54.5–.70 7.46N 78.48W 40–88 2.9L
ISC Event type ke.
CASC Error ellipse: s-maj=24.3km s-min=10.7km az=-1.0.
RSNC Error ellipse: s-maj=8.7km s-min=6.5km az=-1.0.
ISC IV 01 08 47 58.6–2.0 7.25N–.10 81.38W–.04 4–12 27 1-8
ISCJB IV 01 08 48 00.4–1.5 7.25N–.08 81.38W–.03 23–15 **¶602385129**
CASC IV 01 08 48 01.7–4.6 7.44N 81.40W 7–77 4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.3km az=1.5.
CASC Error ellipse: s-maj=80.6km s-min=8.9km az=-1.0.
ISC IV 01 08 58 18.9–.73 7.44N–.07 81.32W–.05 10 4.0b,3.3s 38 2-143
CASC IV 01 08 58 06.1–8.3 7.63N 80.66W 319–149 5.0,3.3s **¶17199403**
ISCJB IV 01 08 58 16.8–.46 7.26N–.05 81.40W–.04 10 3.8b,3.4s
IDC IV 01 08 58 21.4–1.8 8.21N 81.16W 0 4.1,3.9
ISC Event type ke.
CASC Error ellipse: s-maj=319.1km s-min=56.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.7km az=29.9.
IDC Error ellipse: s-maj=58.5km s-min=18.2km az=26.0.
ISC IV 01 09 23 14.9–1.3 7.45N–.08 81.36W–.03 10 30 1-8
CASC IV 01 09 23 13.6–2.1 7.15N 81.35W 6–33 4.3 **¶602385130**
ISCJB IV 01 09 23 14.4–.63 7.30N–.05 81.37W–.03 10 4.3
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 16 59 02.5–1.1 7.42N–.08 81.28W–.03 10 3.7b,3.4s 29 1-88
ISCJB IV 01 16 59 02.0–.59 7.29N–.06 81.35W–.03 10 3.6b,3.5s **¶17199446**

CASC	IV	01 16 59 02.6–1.6	7.42N	81.40W	0–14	4.9,4.2L		
IDC	IV	01 16 59 09.0–4.5	8.98N	80.85W	0	4.0,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=12.8.							
CASC	Error ellipse: s-maj=42.4km s-min=4.5km az=-1.0.							
IDC	Error ellipse: s-maj=127.9km s-min=25.7km az=11.0.							
ISC	**IV**	**01 18 26 20.4–.99**	**7.2N–.10**	**81.49W–.07**	**35**	**4.3b**	**41**	**3-155**
IDC	IV	01 18 26 13.2–2.3	6.79N	81.51W	0	4.2,4.2L		¶16531998
NEIC	IV	01 18 26 15.7–.69	6.97N	81.41W	10	4.6b,4.2L		
ISCJB	IV	01 18 26 19.3–.59	7.23N–.08	81.46W–.04	33	4.1b,3.6s		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**IV**	**01 20 43 44.6–1.6**	**7.4N–.10**	**81.41W–.03**	**10**		**25**	**1-6**
CASC	IV	01 20 43 42.5–2.4	7.13N	81.40W	1–28	4.5		¶602385131
ISCJB	IV	01 20 43 44.8–.90	7.31N–.07	81.44W–.03	10	4.5		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**IV**	**01 22 18 56.2–1.6**	**7.53N–.05**	**80.78W–.03**	**3–10**	**4.0b,3.5s**	**73**	**1-154**
CASC	IV	01 22 18 54.2–3.0	7.12N	80.57W	39	4.9,4.5b		¶16485874
IDC	IV	01 22 18 56.2–.81	7.70N	80.40W	0	4.1,4.1		
ISCJB	IV	01 22 18 57.5–.76	7.51N–.03	80.78W–.03	21–6	3.9b,3.6s		
NEIC	IV	01 22 19 01.9–.78	7.60N	80.62W	39–8	4.5b,3.6s		
ISC	Event type se.							
CASC	Error ellipse: s-maj=19.6km s-min=12.6km az=-1.0.							
IDC	Error ellipse: s-maj=32.6km s-min=13.9km az=47.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.0km s-min=4.2km az=29.8.							
NEIC	Event type se. Error ellipse: s-maj=10.2km s-min=6.9km az=58.0.							
CASC	**IV**	**01 23 27 01.8–2.2**	**7.42N**	**80.75W**	**13–26**	**4.0**		
								¶602385132
CASC	Error ellipse: s-maj=28.3km s-min=11.3km az=-1.0.							
CASC	**IV**	**16 03 26 39.8–5.2**	**9.21N**	**78.93W**	**12–98**	**3.5L**		
								¶602385173
CASC	Error ellipse: s-maj=59.8km s-min=20.1km az=-1.0.							
CASC	**IV**	**19 06 20 12.9–2.7**	**8.73N**	**78.82W**	**0–9**	**3.8**		
								¶602385186
CASC	Error ellipse: s-maj=25.6km s-min=6.1km az=-1.0.							
CASC	**V**	**14 00 35 13.0–9.5**	**7.13N**	**81.50W**	**92–134**	**3.7**		
UPA	V	14 00 35 16.0	7.09N	81.57W	43	3.1W		¶602385642
INET	V	14 00 35 17.3	6.98N	78.44W	32	3.9		
CASC	Error ellipse: s-maj=50.9km s-min=21.0km az=-1.0.							
ISC	**V**	**25 00 35 17.2–.62**	**9.40N–.09**	**78.47W–.06**	**59**	**3.7b**	**38**	**1-147**
ISCJB	V	25 00 35 16.2–.49	9.48N–.05	78.44W–.05	59	3.9b		¶17204418
IDC	V	25 00 35 17.1–1.2	9.27N	78.59W	68–5	4.0,3.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.0km s-min=5.5km az=41.3.							
IDC	Error ellipse: s-maj=33.4km s-min=19.1km az=13.0.							
ISC	**V**	**27 16 56 42.8–.67**	**7.31N–.06**	**80.41W–.08**	**8**	**4.2b,3.3s**	**49**	**2-154**
ISCJB	V	27 16 56 41.0–.59	7.31N–.04	80.46W–.06	8	4.1b,3.3s		¶16711073
IDC	V	27 16 56 42.5–1.0	7.44N	80.63W	0	4.3,4.2		
NEIC	V	27 16 56 46.7–.67	7.53N	80.52W	35	4.9b,4.2		
ISC	Event type fe.							
ISCJB	Event type fe. Error ellipse: s-maj=8.2km s-min=6.2km az=162.2.							
IDC	Error ellipse: s-maj=32.1km s-min=17.5km az=42.0.							
NEIC	Event type fe. Error ellipse: s-maj=12.4km s-min=9.0km az=71.0. Felt at Las Tablas and Tonosi.							
ISC	**V**	**30 20 42 23.2–1.9**	**7.11N–.06**	**78.13W–.05**	**2–12**	**3.7b**	**45**	**1-154**
IDC	V	30 20 42 23.4–.65	7.14N	77.98W	0	4.2L,4.1		¶17204786
ISCJB	V	30 20 42 24.9–1.2	7.11N–.04	78.10W–.03	22–9	3.6b,3.5s		
RSNC	V	30 20 42 26.3–.76	7.05N	78.23W	32–9	4.0L,3.5s		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=26.4km s-min=16.7km az=49.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=5.6km az=18.1.							
RSNC	Error ellipse: s-maj=6.0km s-min=4.7km az=-1.0.							
				(82) Panama-Colombia border region.				
ISC	**II**	**17 09 00 48.4–.76**	**7.53N–.05**	**77.09W–.05**	**31**	**4.1b**	**23**	**1-147**
IDC	II	17 09 00 43.6–1.1	7.49N	77.37W	0	4.2,4.1		¶17192407
ISCJB	II	17 09 00 47.6–.51	7.57N–.04	77.09W–.04	31	4.1b,4.1s		
RSNC	II	17 09 00 49.7–.92	7.53N	77.06W	32–6	3.4L,4.1s		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=37.4km s-min=26.8km az=49.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=39.5.							
RSNC	Error ellipse: s-maj=4.2km s-min=3.9km az=-1.0.							
ISC	**IV**	**01 01 27 50.5–1.4**	**7.03N–.04**	**77.97W–.04**	**0–9**	**4.6b,3.7s**	**306**	**1-154**
ISCJB	IV	01 01 27 49.7–1.2	7.05N–.03	77.98W–.02	2–8	4.5b,3.7s		¶16403127
RSNC	IV	01 01 27 51.3–.64	7.02N	78.06W	0–6	4.2L,3.7s		
NEIC	IV	01 01 27 52.4–1.9	6.99N	77.92W	12–12	4.7b,3.7s		
BJI	IV	01 01 27 53.4	7.21N	78.05W	24	4.7b,3.7s		
IDC	IV	01 01 27 57.2–1.8	6.99N	77.95W	47–17	4.3,4.2		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=39.1.							
RSNC	Error ellipse: s-maj=3.4km s-min=5.2km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=45.0.							
IDC	Error ellipse: s-maj=15.6km s-min=9.9km az=48.0.							
ISC	**VI**	**02 14 37 12.1–.72**	**7.10N–.04**	**77.03W–.03**	**32–5**	**3.9b,3.4s**	**55**	**1-154**
CASC	VI	02 14 35 56.0–77	8.28N	77.27W	694–684	3.9b,3.4s		¶16856113
ISCJB	VI	02 14 37 12.6–.41	7.20N–.03	77.06W–.03	47–5	4.0b,3.2s		
NEIC	VI	02 14 37 13.8–.79	7.18N	77.16W	43–8	4.1b,3.2s		
RSNC	VI	02 14 37 13.6–.94	7.19N	77.02W	26–10	3.5L,3.2s		
IDC	VI	02 14 37 13.3–.59	7.09N	77.13W	40–5	4.1,4.1		
ISC	Event type se.							
CASC	Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=27.8.							
NEIC	Event type se. Error ellipse: s-maj=9.9km s-min=7.7km az=50.0.							
RSNC	Error ellipse: s-maj=3.4km s-min=4.7km az=-1.0.							
IDC	Error ellipse: s-maj=21.7km s-min=14.4km az=45.0.							
ISC	**VI**	**27 05 58 22.8–2.7**	**8.83N–.07**	**77.4W–.10**	**35**		**35**	**2-10**
RSNC	VI	27 05 58 23.0–.58	8.80N	77.48W	58–54	3.2L		¶602747396
FUNV	VI	27 05 59 13.9	9.58N	73.72W	35	2.3W		
ISC	Event type ke.							
RSNC	Error ellipse: s-maj=5.5km s-min=7.5km az=-1.0.							
				(83) South of Panama.				
ISC	**I**	**20 12 53 41.9–.30**	**3.27N–.04**	**79.30W–.05**	**35**	**4.9b,4.0s**	**553**	**1-158**
MOS	I	20 12 53 36.8–1.2	3.26N	79.35W	13	4.8b,4.0s		¶15947711
IDC	I	20 12 53 36.7–.49	3.33N	79.27W	0	4.8,4.7		
IGQ	I	20 12 53 36	3.37N	78.49W	12–3	4.0b,4.7		
NEIC	I	20 12 53 37.9–.26	3.05N	79.39W	10	4.9b,4.7		
ISCJB	I	20 12 53 40.0–.13	3.33N–.02	79.22W–.03	33	4.9b,4.0s		
BJI	I	20 12 53 39.8	3.10N	79.30W	26	5.5b,5.4s		
RSNC	I	20 12 53 42.6–1.1	3.28N	79.07W	19–7	4.3L,5.4s		
ISC	Event type se.							
MOS	Error ellipse: s-maj=17.8km s-min=10.2km az=111.0.							
IDC	Error ellipse: s-maj=20.0km s-min=10.3km az=57.0.							
IGQ	Error ellipse: s-maj=1.1km s-min=3.3km az=179.2.							
NEIC	Event type se. Error ellipse: s-maj=7.2km s-min=4.4km az=213.0.							
ISCJB	Event type se. Error ellipse: s-maj=3.9km s-min=2.2km az=150.7.							
RSNC	Error ellipse: s-maj=6.8km s-min=8.6km az=-1.0.							
ISC	**I**	**23 01 03 23.4–1.0**	**7.53N–.08**	**82.39W–.05**	**12**	**3.8b**	**28**	**1-73**
CASC	I	23 01 03 23.0–1.5	7.52N	82.49W	0–5	4.2		¶17190771
IDC	I	23 01 03 26.2–7.6	8.35N	82.01W	0	4.1,3.9L		
ISC	Event type ke.							
CASC	Error ellipse: s-maj=8.8km s-min=4.8km az=-1.0.							
IDC	Error ellipse: s-maj=167.2km s-min=51.4km az=4.0.							
CASC	**II**	**08 16 29 17.7–2.3**	**7.11N**	**82.44W**	**20–46**	**4.1**		
								¶601907974
CASC	Error ellipse: s-maj=28.3km s-min=13.9km az=-1.0.							
ISC	**II**	**21 07 56 25.4–2.4**	**5.4N–.10**	**82.70W–.09**	**15**		**22**	**3-7**
ISCJB	II	21 07 56 24.9–.99	5.45N–.06	82.65W–.06	15			¶601908390
CASC	II	21 07 56 26.1–1.4	5.51N	82.63W	10	4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.3km az=44.4.
CASC Error ellipse: s-maj=7.0km s-min=6.1km az=-1.0.

ISC	**III**	**19 05 51 39.9–1.7**	**7.79N–.07**	**82.32W–.04**	**5–10**	**3.7b**	**47**	**1-82**
IDC	III	19 05 51 40.5–3.1	8.22N	82.14W	0	3.9,3.7		¶17197141
CASC	III	19 05 51 42.3–1.7	7.72N	82.51W	10–7	4.4,4.2L		

ISC Event type ke.
IDC Error ellipse: s-maj=108.9km s-min=20.0km az=25.0.
CASC Error ellipse: s-maj=6.1km s-min=3.9km az=-1.0.

CASC	**III**	**19 11 04 43.5–2.7**	**7.74N**	**82.43W**	**17–12**	**4.1**		
								¶602003275

CASC Error ellipse: s-maj=10.3km s-min=9.5km az=-1.0.

CASC	**III**	**20 02 00 17.9–18**	**7.43N**	**82.87W**	**99–184**	**4.2**		
								¶602003293

CASC Error ellipse: s-maj=139.6km s-min=81.9km az=-1.0.

CASC	**III**	**20 13 26 05.4–4.2**	**6.54N**	**82.44W**	**38–999**	**4.3**		
								¶602003294

CASC Error ellipse: s-maj=33.0km s-min=14.9km az=-1.0.

ISC	**IV**	**01 23 31 39.9–.74**	**6.97N–.06**	**78.07W–.05**	**23**	**3.6b**	**22**	**1-146**
IDC	IV	01 23 31 37.4–.92	7.15N	78.00W	0	3.9,3.7		¶17199468
ISCJB	IV	01 23 31 38.5–.55	7.01N–.05	78.09W–.04	23	3.6b,3.4s		
RSNC	IV	01 23 31 39.0–.68	7.00N	78.10W	12–9	3.5L,3.4s		

ISC Event type ke.
IDC Error ellipse: s-maj=32.5km s-min=23.6km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.8km az=33.8.
RSNC Error ellipse: s-maj=6.7km s-min=5.0km az=-1.0.

ISC	**IV**	**03 23 03 20.6–.35**	**2.58N–.04**	**79.78W–.05**	**34–4**	**4.8b,3.9s**	**495**	**1-159**
ISCJB	IV	03 23 03 18.3–1.1	2.62N–.03	79.73W–.02	28–8	4.8b,3.9s		¶16406032
RSNC	IV	03 23 03 19.1–.62	2.61N	79.76W	32–999	4.0L,3.9s		
NEIC	IV	03 23 03 21.3–.50	2.54N	79.76W	39–4	4.8b,3.9s		
IDC	IV	03 23 03 23.0–1.9	2.62N	79.72W	53–16	4.5,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=26.1.
RSNC Error ellipse: s-maj=5.3km s-min=8.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.0km az=217.0.
IDC Error ellipse: s-maj=14.3km s-min=9.7km az=54.0.

ISC	**IV**	**05 02 46 31.0–1.3**	**2.61N–.09**	**79.4W–.10**	**21**		**8**	**1-78**
IDC	IV	05 02 46 28.6–10	2.70N	79.77W	0	3.7,3.5		¶17199836
ISCJB	IV	05 02 46 29.7–1.2	2.64N–.07	79.49W–.09	21	3.4b,3.5		
RSNC	IV	05 02 46 32.9–.64	2.64N	79.31W	13–5	2.8L,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=259.3km s-min=35.0km az=178.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=9.3km az=146.1.
RSNC Error ellipse: s-maj=4.4km s-min=8.3km az=-1.0.

ISC	**IV**	**09 07 28 02.7–2.0**	**6.1N–.10**	**82.70W–.08**	**14**		**21**	**3-7**
ISCJB	IV	09 07 28 02.3–.92	6.13N–.06	82.63W–.05	14			¶602385149
CASC	IV	09 07 28 05.0–2.5	6.12N	82.67W	36–39	4.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.4km az=36.3.
CASC Error ellipse: s-maj=36.2km s-min=11.4km az=-1.0.

ISC	**IV**	**10 09 36 31.5–1.2**	**5.25N–.09**	**82.73W–.09**	**15**	**3.6b**	**29**	**4-62**
ISCJB	IV	10 09 36 29.2–.71	5.23N–.05	82.68W–.06	15	3.5b		¶17200445
IDC	IV	10 09 36 29.4–1.5	5.10N	82.64W	0	4.0,3.7		
CASC	IV	10 09 36 35.7–5.0	5.60N	82.68W	20–130	4.3,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.9km az=141.0.
IDC Error ellipse: s-maj=56.3km s-min=23.5km az=53.0.
CASC Error ellipse: s-maj=84.3km s-min=21.8km az=-1.0.

ISC	**IV**	**10 21 33 10.4–.44**	**3.95N–.05**	**82.74W–.06**	**14**	**4.7b,4.2s**	**89**	**5-158**
IDC	IV	10 21 33 08.8–.63	4.02N	82.73W	0	4.5,4.3		¶16587450
ISCJB	IV	10 21 33 09.1–.32	4.02N–.03	82.67W–.04	14	4.5b,4.1s		
CASC	IV	10 21 33 09.6–2.9	3.90N	82.85W	35–999	4.8b,4.5		
NEIC	IV	10 21 33 10.2–.29	3.97N	82.70W	10	4.8b,4.5		
GCMT	IV	10 21 33 10.2–.30	3.93N	82.66W	17–1	5.0W,4.5		
RSNC	IV	10 21 33 17.4–.37	4.00N	82.27W	42–39	4.4W,4.4L		

ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=12.8km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=145.8.
CASC Error ellipse: s-maj=15.6km s-min=16.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.2km az=53.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c38; s87,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.19±.10 $M_{\theta\theta}$0.28±.09; $M_{\phi\phi}$-0.08±.11; $M_{r\theta}$-0.35±.23; $M_{\theta\phi}$3.46±.10; $M_{\phi r}$0.12±.24; Best double couple: NP1:ϕ_s91.00000°,δ88.00000°,λ-6.00000°. NP2:ϕ_s182.00000°,δ84.00000°,λ-178.00000°. Principal axes: T 3.5700,Plg3.0000°,Azm137.0000°; N -0.1690,Plg84.0000°,Azm251.0000°; P -3.4010,Plg6.0000°,Azm46.0000° $M_0$3.48600×10^{16}

RSNC	Error ellipse: s-maj=10.4km s-min=25.1km az=-1.0.							
ISC	**IV**	**12 07 44 02.6–.34**	**5.35N–.04**	**82.58W–.03**	**10**	**4.8b,4.1s**	**642**	**3-156**
IDC	IV	12 07 44 00.1–.58	5.19N	82.64W	0	5.0L,4.7		¶16440434
BJI	IV	12 07 44 00.5	5.30N	82.50W	10	5.5,5.5s		
ISCJB	IV	12 07 44 01.0–.18	5.42N–.02	82.47W–.02	10	4.8b,4.1s		
NEIC	IV	12 07 44 02.4–.18	5.30N	82.46W	10	4.8b,4.7W		
GCMT	IV	12 07 44 02.4–.30	5.15N	82.63W	31–1	5.2W,4.7W		
CASC	IV	12 07 44 03.4–3.1	5.29N	82.58W	35–31	4.8b,4.6		

ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=11.1km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=36.6.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=48.0. Moment Tensor Solution. s9 Moment tensor: Scale 10^{16}Nm; M_{rr}0.07 $M_{\theta\theta}$0.29 $M_{\phi\phi}$-0.36 $M_{r\theta}$0.48 $M_{\theta\phi}$1.26 $M_{\phi r}$0.24 Best double couple: NP1:ϕ_s5.00000°,δ72.00000°,λ168.00000°. NP2:ϕ_s99.00000°,δ79.00000°,λ18.00000°. Principal axes: T 1.4700,Plg21.0000°,Azm323.0000°; N -0.1200,Plg69.0000°,Azm130.0000°; P -1.3500,Plg4.0000°,Azm231.0000° $M_0$1.40000×10^{16}

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c40; s95,c134; Duration: 1θ0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.32±.33 $M_{\theta\theta}$1.50±.24; $M_{\phi\phi}$-1.82±.30; $M_{r\theta}$-0.01±.32; $M_{\theta\phi}$7.52±.20; $M_{\phi r}$-0.62±.34; Best double couple: NP1:ϕ_s6.00000°,δ90.00000°,λ-175.00000°. NP2:ϕ_s276.00000°,δ85.00000°,λ0.00000°. Principal axes: T 7.5620,Plg3.0000°,Azm141.0000°; N 0.3250,Plg85.0000°,Azm8.0000°; P -7.8890,Plg3.0000°,Azm231.0000° $M_0$7.72500×10^{16}

CASC Error ellipse: s-maj=14.8km s-min=10.4km az=-1.0.

ISC	**IV**	**12 10 34 05.8–1.3**	**5.38N–.08**	**82.47W–.08**	**10**		**17**	**3-7**
ISCJB	IV	12 10 34 04.6–.99	5.34N–.07	82.61W–.09	10			¶602385166
CASC	IV	12 10 34 07.3–1.7	5.52N	82.53W	3–40	4.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=4.9km az=145.8.
CASC Error ellipse: s-maj=47.4km s-min=12.3km az=-1.0.

ISC	**IV**	**13 11 03 45.3–.47**	**4.89N–.05**	**82.67W–.05**	**12**	**4.7b,4.0s**	**340**	**4-157**
IDC	IV	13 11 03 43.3–.75	4.76N	82.71W	0	4.5,4.3		¶16532020
ISCJB	IV	13 11 03 43.9–.22	4.95N–.03	82.53W–.02	12	4.6b,3.9s		
BJI	IV	13 11 03 44.5	4.90N	82.60W	5	5.3b,4.3s		
NEIC	IV	13 11 03 45.3–.21	4.86N	82.56W	10	4.7b,4.5W		
CASC	IV	13 11 03 45.8–1.6	5.04N	82.75W	10	4.7b,4.6		
GCMT	IV	13 11 03 45.2–.30	4.75N	82.68W	27–1	5.0W,4.6		

ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=13.1km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.3km az=33.4.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.6km az=45.0. Moment Tensor Solution. s9 Moment tensor: Scale 10^{15}Nm; M_{rr}1.43 $M_{\theta\theta}$0.39 $M_{\phi\phi}$-1.82 $M_{r\theta}$1.01 $M_{\theta\phi}$6.34 $M_{\phi r}$1.02 Best double couple: NP1:ϕ_s4.00000°,δ79.00000°,λ167.00000°. NP2:ϕ_s96.00000°,δ78.00000°,λ11.00000°. Principal axes: T 6.1500,Plg17.0000°,Azm320.0000°; N 1.0000,Plg73.0000°,Azm143.0000°; P -7.1500,Plg1.0000°,Azm50.0000° $M_0$6.70000×10^{15}

CASC Error ellipse: s-maj=7.3km s-min=5.8km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c43; s87,c131; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.10±.17 $M_{\theta\theta}$0.21±.12; $M_{\phi\phi}$-0.30±.16; $M_{r\theta}$0.38±.21; $M_{\theta\phi}$3.91±.11; $M_{\phi r}$0.17±.24; Best double couple: NP1:ϕ_s92.00000°,δ87.00000°,λ5.00000°. NP2:ϕ_s2.00000°,δ85.00000°,λ177.00000°. Principal axes: T 3.9090,Plg6.0000°,Azm317.0000°; N 0.0620,Plg84.0000°,Azm119.0000°; P -3.9710,Plg2.0000°,Azm227.0000° $M_0$3.94000×10^{16}

ISC	**IV**	**21 22 02 06.3–1.5**	**5.5N–.10**	**82.9W–.10**	**35**		**18**	**3-8**

ISCJB IV 21 22 02 04.3–1.0 5.56N–.07 82.84W–.09 33 ¶602385198
CASC IV 21 22 02 07.2–1.3 5.69N 82.75W 35–999 4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=4.6km az=143.3.
CASC Error ellipse: s-maj=25.8km s-min=13.2km az=-1.0.
ISC IV 25 22 09 18.6–1.6 5.38N–.09 82.18W–.10 10 21 3-7
CASC IV 25 22 09 18.6–3.0 5.40N 82.09W 247–106 4.4 ¶602385206
ISC Event type ke.
CASC Error ellipse: s-maj=67.5km s-min=53.7km az=-1.0.
ISC IV 25 22 42 34.2–.41 4.88N–.05 82.64W–.05 12 4.6b,3.8s 328 4-146
IDC IV 25 22 42 32.0–.66 4.86N 82.61W 0 4.5,4.4 ¶16649381
ISCJB IV 25 22 42 33.2–.20 5.01N–.02 82.53W–.02 12 4.5b,3.8s
BJI IV 25 22 42 34.9 4.54N 83.60W 29 5.3s,5.1b
CASC IV 25 22 42 34.9–2.4 5.02N 82.81W 20–73 4.7b,4.5
NEIC IV 25 22 42 36.7–1.9 4.87N 82.54W 26–14 4.7b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=11.6km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=38.1.
CASC Error ellipse: s-maj=47.0km s-min=10.2km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.9km az=47.0.
ISC IV 30 08 19 16.7–.27 6.85N–.04 82.36W–.04 10 5.8s,5.7b 1284 2-175
IDC IV 30 08 19 14.3–.50 6.86N 82.52W 0 5.5,5.5s ¶16587542
MOS IV 30 08 19 15.3–1.2 6.95N 82.35W 10 5.9b,5.7s
GCMT IV 30 08 19 16.3–.10 6.88N 82.39W 21–0 6.2W,5.7s
NEIC IV 30 08 19 16.0–.00 6.83N 82.08W 15 6.2W,5.7s
BJI IV 30 08 19 16.2 6.85N 82.30W 10 6.2s,6.0
NEIC IV 30 08 19 16.7–.23 6.85N 82.33W 12 6.1,6.1W
ISCJB IV 30 08 19 17.0–.23 7.18N–.03 82.35W–.02 10 5.7s,5.6b
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c276; s139,c517;Duration: 3Ψ0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.13±.01 $M_{\theta\theta}$0.47±.01; $M_{\phi\phi}$-0.34±.01; $M_{r\theta}$0.28±.03; $M_{\theta\phi}$2.31±.01; $M_{\phi r}$-0.02±.03; Best double couple: NP1:ϕ_s275.00000°,δ90.00000°,λ-7.00000°. NP2:ϕ_s5.00000°,δ83.00000°,λ-180.00000°. Principal axes: T 2.4270,Plg5.0000°,Azm320.0000°; N -0.1260,Plg83.0000°,Azm91.0000°; P -2.2990,Plg5.0000°,Azm230.0000° $M_0$2.36300×10^{18}
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.20 $M_{\theta\phi}$0.21 $M_{\phi\phi}$-0.01 $M_{r\theta}$-0.87 $M_{\theta\theta}$1.61 $M_{\phi r}$0.26 Best double couple: NP1:ϕ_s90.00000°,δ82.00000°,λ-28.00000°. NP2:ϕ_s184.00000°,δ62.00000°,λ-171.00000°. Principal axes: T 1.8300,Plg13.0000°,Azm140.0000°; N 0.0700,Plg60.0000°,Azm255.0000°; P -1.8900,Plg25.0000°,Azm43.0000° $M_0$1.90000×10^{18}
NEIC Event type fe. Felt [II] at Boquete and David. Also felt at Ancon, Atalaya, Bejuco, Bugaba, Cerro Punta, Los Algarrobos, Nueva Gorgona, Nuevo Arraijan, Panama, Penonome, Puerto Armuelles, Rio Hato, San Miguelito and Volcan. Felt [IV] at Talamanca, Costa Rica. Also felt at Escazu, Golfito, Heredia, San Isidro and San Vito. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s68 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$-0.03 $M_{\phi\phi}$-0.01 $M_{r\theta}$0.04 $M_{\theta\phi}$1.42 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s360.00000°,δ88.00000°,λ180.00000°. NP2:ϕ_s90.00000°,δ90.00000°,λ2.00000°. Principal axes: T 1.4100,Plg1.0000°,Azm315.0000°; N 0.0300,Plg88.0000°,Azm91.0000°; P -1.4400,Plg1.0000°,Azm225.0000° $M_0$1.40000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s95.00000°,δ90.00000°,λ5.00000°. NP2:ϕ_s5.00000°,δ85.00000°,λ-180.00000°. Principal axes: T Plg4.0000°,Azm320.0000°; N Plg0.0000°,Azm0.0000°; P Plg4.0000°,Azm230.0000°
ISCJB Event type fe.
CASC IV 30 09 41 54.8–1.9 6.85N 82.34W 30–93 4.1 ¶602385212
CASC Error ellipse: s-maj=60.6km s-min=11.2km az=-1.0.
CASC IV 30 20 55 35.4–2.7 6.67N 82.50W 39–71 4.1 ¶602385213
CASC Error ellipse: s-maj=50.5km s-min=13.6km az=-1.0.
ISC V 01 09 22 43.9–.97 6.89N–.07 82.47W–.06 10 3.7b,3.3s 36 2-83
ISCJB V 01 09 22 42.2–.59 6.83N–.05 82.43W–.04 10 3.5b,3.4s ¶17202509
CASC V 01 09 22 43.7–3.0 6.75N 82.43W 34–70 4.5,3.4s
IDC V 01 09 22 46.2–4.9 7.74N 81.92W 0 3.9,3.7
GCMT V 01 09 22 48.0–.90 6.88N 82.36W 25 4.9W,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.3km az=29.9.
CASC Error ellipse: s-maj=48.8km s-min=11.6km az=-1.0.
IDC Error ellipse: s-maj=181.6km s-min=31.1km az=27.0.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c36; s63,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.17±.22 $M_{\theta\theta}$2.94±.18; $M_{\phi\phi}$-2.77±.21; $M_{r\theta}$0.00±.38; $M_{\theta\phi}$0.21±.14; $M_{\phi r}$0.17±.39; Best double couple: NP1:ϕ_s223.00000°,δ88.00000°,λ-177.00000°. NP2:ϕ_s133.00000°,δ87.00000°,λ-2.00000°. Principal axes: T 2.9480,Plg0.0000°,Azm358.0000°; N -0.1610,Plg86.0000°,Azm266.0000°; P -2.7890,Plg4.0000°,Azm88.0000° $M_0$2.86800×10^{16}
ISC V 12 04 06 31.7–1.9 7.95N–.06 82.91W–.05 1–12 3.8b,2.8s 43 1-83
ISCJB V 12 04 06 29.9–1.1 7.84N–.04 82.92W–.04 2–6 3.6b,3.1s ¶16577280
IDC V 12 04 06 33.3–1.5 8.03N 82.55W 0 4.0,3.8b
CASC V 12 04 06 33.6–4.0 8.03N 82.97W 4–13 4.2,3.8b
NEIC V 12 04 06 33.0 7.99N 82.90W 10 4.5,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.0km az=41.7.
IDC Error ellipse: s-maj=54.4km s-min=24.8km az=54.0.
CASC Error ellipse: s-maj=11.0km s-min=7.2km az=-1.0.
NEIC Event type se. After UPA.
ISC V 21 02 43 20.2–.55 4.74N–.06 82.56W–.07 35 4.4b,3.7s 157 4-144
IDC V 21 02 43 14.6–.88 4.73N 82.64W 0 4.2,4.1 ¶16549099
ISCJB V 21 02 43 18.7–.29 4.79N–.04 82.52W–.03 33 4.4b,3.8s
UPA V 21 02 43 18.4 5.17N 82.78W 0 4.4W,3.8s
NEIC V 21 02 43 20.4–.75 4.71N 82.53W 36–7 4.5b,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=14.9km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.3km az=24.1.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=216.0.
ISC V 25 06 45 37.1–1.2 5.8N–.20 82.8W–.10 35 3.7b,3.3s 11 5-83
IDC V 25 06 45 32.4–6.3 5.90N 82.75W 0 3.8,3.6 ¶17204435
ISCJB V 25 06 45 35.3–1.2 5.9N–.20 82.6W–.20 33 3.5b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 08 15 57.2–.62 4.79N–.07 82.67W–.07 12 4.3b,3.3s 114 4-149
IDC VI 04 08 15 54.4–1.0 4.58N 82.72W 0 4.2,4.1 ¶16640737
CASC VI 04 08 15 55.8–2.2 4.89N 82.76W 10 4.4,4.4b
NEIC VI 04 08 15 56.9–.34 4.63N 82.56W 10 4.4b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=16.4km az=32.0.
CASC Error ellipse: s-maj=12.9km s-min=13.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.6km az=204.0.
ISC VI 07 06 46 04.8–.63 6.93N–.06 78.02W–.07 23 3.6b 26 1-146
IDC VI 07 06 46 01.9–.94 7.01N 77.89W 0 3.7,3.6 ¶17205458
RSNC VI 07 06 46 02.2–.57 6.93N 78.08W 1–6 3.2L,3.6
ISCJB VI 07 06 46 03.0–.59 6.91N–.05 78.06W–.06 23 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC VI 08 06 35 17.4–.44 5.07N–.05 82.59W–.06 12 4.5b,4.1s 156 4-150
CASC VI 08 06 35 12.8–2.3 5.21N 82.77W 0–42 4.6b,4.5 ¶16577426
IDC VI 08 06 35 14.8–.68 5.09N 82.57W 0 4.4,4.3
ISCJB VI 08 06 35 15.9–.27 5.07N–.04 82.47W–.03 12 4.5b,4.1s
GCMT VI 08 06 35 20.7–.20 5.03N 82.63W 24–0 5.2W,4.1s
NEIC VI 08 06 35 20.7–.87 5.00N 82.50W 36–9 4.6b,4.1s
ISC Event type se.
CASC Error ellipse: s-maj=94.2km s-min=24.1km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=13.0km az=42.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.3km az=23.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c88; s107,c180; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.45±.18 $M_{\theta\theta}$0.45±.14; $M_{\phi\phi}$0.00±.18; $M_{r\theta}$0.65±.20; $M_{\theta\phi}$7.19±.14; $M_{\phi r}$0.28±.22; Best double couple: NP1:ϕ_s91.00000°,δ88.00000°,λ5.00000°. NP2:ϕ_s1.00000°,δ85.00000°,λ178.00000°. Principal axes: T 7.4720,Plg5.0000°,Azm316.0000°; N -0.4920,Plg85.0000°,Azm111.0000°; P -6.9800,Plg2.0000°,Azm226.0000° $M_0$7.22600×10^{16}
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.3km az=46.0.
ISC VI 12 23 25 52.9–1.3 5.16N–.07 78.4W–.10 21 10 1-145
IDC VI 12 23 25 48.8–2.4 4.82N 78.61W 0 4.1,3.8 ¶17206015
ISCJB VI 12 23 25 50.8–1.0 5.17N–.08 78.38W–.08 21 3.8b,3.8
RSNC VI 12 23 25 52.5–1.0 5.14N 78.13W 4–10 3.0L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=78.7km s-min=39.9km az=22.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=10.4km az=146.7.
RSNC Error ellipse: s-maj=4.6km s-min=13.2km az=-1.0.
ISC VI 19 16 34 42.3–.69 7.28N–.05 82.34W–.04 20–3 5.0b,4.1s 923 2-154
IDC VI 19 16 34 38.9–.60 7.25N 82.31W 0 4.8,4.7 ¶16632982
MOS VI 19 16 34 40.8–1.1 7.54N 82.17W 10 5.2b,4.7
ISCJB VI 19 16 34 42.6–.25 7.60N–.04 82.17W–.02 21 4.9b,4.1s
NEIC VI 19 16 34 43.0–.74 7.32N 82.20W 21–5 5.0b,4.1s
BJI VI 19 16 34 43.2 7.40N 82.20W 20 5.4b,5.2s
GCMT VI 19 16 34 43.0–.20 7.23N 82.33W 23–1 5.1W,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=14.0km az=54.0.
MOS Error ellipse: s-maj=11.0km s-min=5.4km az=112.8.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.2km az=21.4.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.3km az=207.0. Felt at Horconcito. Also felt at Laurel, Rio Claro and San Vito, Costa Rica.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c68; s106,c165; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.12±.18 $M_{\theta\theta}$1.30±.13; $M_{\phi\phi}$-1.42±.18; $M_{r\theta}$0.34±.20; $M_{\theta\phi}$6.12±.14; $M_{\phi r}$-0.11±.23; Best double couple: NP1:ϕ_s276.00000°,δ89.00000°,λ-3.00000°. NP2:ϕ_s6.00000°,δ87.00000°,λ-179.00000°. Principal axes: T 6.2160,Plg2.0000°,Azm321.0000°; N 0.1280,Plg87.0000°,Azm87.0000°; P -6.3430,Plg3.0000°,Azm231.0000° $M_0$6.27900×10^{16}
CASC VI 19 19 42 04.8–2.8 7.27N 82.23W 17–42 4.0 ¶602386277
CASC Error ellipse: s-maj=28.9km s-min=12.8km az=-1.0.
ISC VI 20 11 25 56.3–.65 4.71N–.06 82.71W–.06 35 4.3b,3.7s 168 4-141
IDC VI 20 11 25 50.0–1.1 4.68N 82.79W 0 4.2,4.2L ¶16640757
NEIC VI 20 11 25 52.6–.37 4.56N 82.62W 10 4.4b,4.2L
GCMT VI 20 11 25 52.6–.30 4.69N 82.66W 26–1 5.0W,4.2L
CASC VI 20 11 25 54.8–2.4 5.04N 82.87W 153–97 4.6,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=35.6km s-min=19.4km az=53.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.0km az=209.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s91,c124; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.11±.17 $M_{\theta\theta}$0.63±.12; $M_{\phi\phi}$-0.52±.15; $M_{r\theta}$0.11±.23; $M_{\theta\phi}$3.33±.10; $M_{\phi r}$0.86±.25; Best double couple: NP1:ϕ_s185.00000°,δ90.00000°,λ-166.00000°. NP2:ϕ_s95.00000°,δ76.00000°,λ0.00000°. Principal axes: T 3.5440,Plg10.0000°,Azm319.0000°; N -0.1130,Plg76.0000°,Azm186.0000°; P -3.4310,Plg10.0000°,Azm51.0000° $M_0$3.48700×10^{16}
CASC Error ellipse: s-maj=31.6km s-min=12.8km az=-1.0.
ISC VI 27 11 05 02.6–1.7 5.46N–.09 82.86W–.08 35 30 3-10
ISCJB VI 27 11 05 01.8–.93 5.49N–.06 82.87W–.08 33 ¶602386310
CASC VI 27 11 05 05.8–2.4 5.69N 82.68W 35–999 4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=4.3km az=143.5.
CASC Error ellipse: s-maj=28.1km s-min=11.0km az=-1.0.
CASC VI 30 07 18 50.7–8.8 6.45N 82.64W 10 4.1 ¶602386324
CASC Error ellipse: s-maj=48.3km s-min=36.0km az=-1.0.

SEISMIC REGION 7.
Caribbean Loop.

(85) Cuba region.

ISC II 16 03 43 26.4–2.0 19.4N–.10 75.9W–.10 7 4.2b 15 1-152
IDC II 16 03 43 19.0–1.2 19.75N 75.80W 0 4.1,4.1 ¶17192338
JSN II 16 03 43 29.8–1.0 19.44N 76.00W 27–388 3.8,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=44.1km s-min=36.6km az=97.0.
JSN Error ellipse: s-maj=142.1km s-min=99.9km az=-1.0.
NEIC III 09 11 05 08.4–.73 19.38N 75.36W 5 3.5L ¶602442180
NEIC Event type fe. Error ellipse: s-maj=13.6km s-min=8.4km az=162.0. Felt at Santiago de Cuba.
ISC V 17 18 07 44.9–1.6 19.4N–.20 78.2W–.20 35 9 1-150
ISCJB V 17 18 07 42.1–1.4 19.5N–.20 78.4W–.20 33 2.9b ¶601676050
JSN V 17 18 07 44.6–.53 19.37N 78.13W 7–7 3.9
IDC V 17 18 07 57.6–7.5 18.16N 81.65W 0 3.2,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.5km s-min=11.9km az=141.8.
JSN Error ellipse: s-maj=7.7km s-min=12.4km az=-1.0.
IDC Error ellipse: s-maj=400.1km s-min=62.0km az=47.0.
ISC V 31 00 12 02.0–.69 19.84N–.07 75.48W–.04 30 4.9b 28 0-37
ISCJB V 31 00 12 00.5–.41 19.85N–.05 75.47W–.03 30 4.9b ¶16587343
NEIC V 31 00 12 02.2–1.1 19.84N 75.45W 29–9 4.5b
JSN V 31 00 12 03.0–.89 19.86N 75.55W 25–296 4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=3.7km az=158.8.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=8.1km az=201.0. Felt [III] at Guantanamo.
JSN Error ellipse: s-maj=104.0km s-min=97.9km az=-1.0.

(86) Jamaica region.

JSN IV 02 14 23 09.0–.66 18.24N 77.32W 6–4 3.7 ¶601675991
JSN Error ellipse: s-maj=2.5km s-min=1.3km az=-1.0.
JSN IV 20 12 22 34.6–.79 18.22N 76.54W 8–9 3.5 ¶601676020
JSN Error ellipse: s-maj=5.1km s-min=5.9km az=-1.0.
ISC V 06 09 29 22.4–.90 18.04N–.04 76.63W–.03 16–5 4.2b,3.5s 292 0-151
IDC V 06 09 29 19.5–.54 17.91N 76.69W 0 4.3,4.2 ¶16709006
ISCJB V 06 09 29 21.0–.47 18.07N–.02 76.59W–.02 13–3 4.1b,3.3s
NEIC V 06 09 29 21.6–1.2 18.06N 76.60W 5–8 4.2b,3.3s
JSN V 06 09 29 22.5–.35 18.06N 76.65W 11–3 4.3,3.3s
ISC Event type fe.
IDC Error ellipse: s-maj=18.9km s-min=13.0km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=35.9.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.3km az=199.0. Felt [IV] at Gordon Town, Kingston and Mona; [III] at Constant Spring, Half Way Tree, Spanish Town and Stony Hill. Also felt at Port Antonio and Portmore.
JSN Error ellipse: s-maj=1.9km s-min=1.1km az=-1.0.
ISC V 16 15 07 07.8–1.0 17.91N–.05 77.93W–.05 29–7 4.6b,3.5s 356 0-150
IDC V 16 15 07 03.7–.52 17.82N 77.99W 0 4.5,4.4L ¶16524520
ISCJB V 16 15 07 06.5–.56 17.85N–.02 77.82W–.03 31–4 4.6b,3.6s
NEIC V 16 15 07 07.4–1.2 17.91N 77.92W 28–9 4.7b,3.6s
JSN V 16 15 07 08.1–.70 17.82N 77.86W 21–5 5.0,3.6s
ISC Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=11.6km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=143.1.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=222.0. Felt [IV] at Mandeville, May Pen, Montego Bay and Savanna la Mar; [III] at Half Way Tree and Kingston; [II] at Constant Spring, Mona and Spanish Town. Felt throughout Jamaica.
JSN Error ellipse: s-maj=8.4km s-min=10.5km az=-1.0.

(87) Haiti region.

ISC III 01 09 14 20.6–1.1 18.54N–.10 72.69W–.04 18–4 30 0-13
ISCJB III 01 09 14 19.8–.60 18.38N–.05 72.64W–.03 19–5 ¶602442000
NEIC III 01 09 14 20.7–.88 18.54N 72.69W 14–6 3.8L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.2km az=171.7.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=6.8km az=175.0. Felt [IV] at Port-au-Prince, [III] at Leogane and [II] at Petionville. Also felt at Cabaret, Delmas, Kenscoff and Petit Goave.
ISC V 12 22 51 11.7–.65 18.34N–.07 72.94W–.04 6 3.6b 41 1-74
ISCJB V 12 22 51 10.0–.37 18.29N–.04 72.95W–.03 6 3.5b ¶16510405
NEIC V 12 22 51 12.1–.64 18.43N 72.94W 10 3.9W

IDC V 12 22 51 13.2–1.6 18.60N 72.98W 0 3.9,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=159.5.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=7.5km az=180.0. Felt at Grand-Goave. Moment Tensor Solution. s10 Moment tensor: Scale 10^{14}Nm; M_{rr}4.77 $M_{\theta\theta}$-2.79 $M_{\phi\phi}$-1.98 $M_{r\theta}$0.16 $M_{\theta\phi}$7.35 $M_{\phi r}$2.63 Best double couple: NP1:ϕ_s348.00000°,δ66.00000°,λ141.00000°. NP2:ϕ_s96.00000°,δ55.00000°,λ31.00000°. Principal axes: T 6.9800,Plg45.0000° ,Azm308.0000°; N 2.9600,Plg45.0000°,Azm141.0000°; P -9.9400,Plg7.0000°,Azm44.0000° M_o8.80000×10^{14}
IDC Error ellipse: s-maj=45.3km s-min=32.8km az=38.0.

(88) Dominican Republic region.

IDC I 06 11 04 08.3–6.2 18.29N 69.16W 97–34 3.5,3.3 ¶17189590
IDC Error ellipse: s-maj=118.6km s-min=31.2km az=21.0.
ISC II 24 16 06 01.9–.80 18.80N–.09 69.43W–.08 100 3.5b 11 3-68
ISCJB II 24 16 06 00.4–.77 18.81N–.07 69.48W–.07 100 3.5b **¶17192795**
IDC II 24 16 06 03.4–2.0 18.69N 69.38W 123–25 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.6km az=8.6.
IDC Error ellipse: s-maj=26.5km s-min=17.7km az=168.0.
NEIC V 03 21 44 25.9–.60 19.64N 70.65W 10 4.5b,3.9 ¶602607214
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.3km az=0.0. Felt [III] at Santiago. Also felt at Pedro Garcia and Tamboril.
ISC V 13 01 19 20.0–.53 19.61N–.04 70.43W–.04 25 3.7b 69 1-74
ISCJB V 13 01 19 18.4–.30 19.64N–.03 70.36W–.03 25 3.7b **¶16580976**
IDC V 13 01 19 18.6–.98 19.76N 70.14W 0 4.1,3.9
NEIC V 13 01 19 20.0–2.4 19.55N 70.46W 23–21 3.8b,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=20.1.
IDC Error ellipse: s-maj=28.6km s-min=15.2km az=32.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=5.1km az=185.0. Felt [III] at San Francisco de Macoris and Santiago; [II] at Jarabacoa, Santo Domingo and Sosua. Also felt at Azua, Baitoa, Mao, Moca and Tamboril.
ISC V 14 22 45 21.6–1.3 19.7N–.20 70.0W–.20 24 3.7b 9 4-76
IDC V 14 22 45 17.8–1.6 19.73N 70.10W 0 3.9,3.7 **¶17203643**
ISCJB V 14 22 45 19.8–1.2 19.7N–.20 70.0W–.10 24 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 14 18 30.3–.69 19.23N–.10 69.51W–.08 50 3.8b 17 3-68
ISCJB V 20 14 18 27.7–.67 19.35N–.09 69.40W–.08 50 3.8b,2.8s **¶17204046**
IDC V 20 14 18 31.1–.84 19.23N 69.48W 67–8 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=9.2km az=31.3.
IDC Error ellipse: s-maj=21.9km s-min=13.9km az=44.0.
ISC VI 01 03 46 42.4–.98 18.68N–.09 69.05W–.03 130–9 66 0-16
ISCJB VI 01 03 46 41.9–.50 18.71N–.06 69.07W–.03 134–6 **¶16552798**
RSPR VI 01 03 46 43.6 19.39N 68.90W 95–6 4.0
NEIC VI 01 03 46 43.6 19.39N 68.90W 95 4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=3.7km az=13.1.
RSPR Event type ke.
NEIC Event type se. After RSPR.

(89) Mona Passage.

RSPR I 11 08 45 59.5 18.89N 68.45W 152–3 3.6 ¶15918294
RSPR Event type ke.
ISC II 13 19 25 27.0–.41 19.29N–.05 67.93W–.03 22–4 4.3b,3.6s 261 1-159
IDC II 13 19 25 23.3–.53 19.17N 67.98W 0 4.3,4.2L **¶16022611**
BJI II 13 19 25 24.3 19.30N 67.80W 8 5.4s,5.2
RSPR II 13 19 25 26.7 19.62N 67.87W 13–3 4.5,5.2
NEIC II 13 19 25 26.7 19.62N 67.87W 13 4.4,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=12.1km az=28.0.
RSPR Event type ke.
NEIC Event type fe. Felt at Otra Banda. Also felt at Caguas, Las Marias, Mayaguez and Sabana Grande, Puerto Rico. After RSPR.
ISC II 16 23 41 19.7–1.5 17.66N–.05 67.09W–.04 11–9 3.7b 59 0-70
IDC II 16 23 41 20.5–1.3 17.94N 67.14W 0 3.9,3.6 **¶16029823**
ISCJB II 16 23 41 21.3–.79 17.75N–.06 67.07W–.04 26–6 3.6b,3.6
NEIC II 16 23 41 23.5 17.83N 67.04W 12 3.9,3.6
RSPR II 16 23 41 23.5 17.83N 67.04W 12–0 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=10.8km az=178.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.9km az=25.1.
NEIC Event type se. After RSPR.
RSPR Event type ke.
RSPR III 01 22 13 35.6 19.26N 67.73W 36–14 3.2
NEIC III 01 22 13 35.6 19.26N 67.73W 36 3.2 **¶16170163**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR III 07 05 13 52.2 18.43N 67.55W 17–0 2.7
NEIC III 07 05 13 52.2 18.43N 67.55W 17 2.7 **¶16196826**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR III 11 00 25 28.8 18.90N 68.86W 166–1 4.0
NEIC III 11 00 25 28.8 18.90N 68.86W 166 4.0 **¶16304055**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC III 16 13 42 30.6–.27 19.02N–.04 67.97W–.04 20 5.0b,4.3s 712 1-167
MOS III 16 13 42 28.6–1.2 19.06N 67.97W 16 5.2b,4.3s **¶16327729**
ISCJB III 16 13 42 29.2–.11 19.06N–.02 68.01W–.02 20 4.9b,4.4s
IDC III 16 13 42 31.9–2.2 18.97N 68.04W 30–15 4.7,4.6
NEIC III 16 13 42 33.6 19.03N 67.92W 56 5.4,5.0W
GCMT III 16 13 42 33.6–.20 19.19N 67.84W 25–1 5.2W,5.0W
BJI III 16 13 42 34.6 19.00N 67.90W 56 5.3b,5.3s
ISC Event type fe.
MOS Error ellipse: s-maj=10.4km s-min=5.3km az=130.1.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=41.8.
IDC Error ellipse: s-maj=10.7km s-min=9.5km az=61.0.
NEIC Event type fe. Felt [IV] at Boca de Yuma, [III] at Higuey and [II] at Otra Banda, Santiago and Santo Domingo. Felt widely in eastern and central Dominican Republic. Felt [IV] at Mayaguez and Moca and [III] in much of Puerto Rico. Felt [II] at Road Town, Virgin Islands. Also felt on Saint Thomas. After RSPR. Moment Tensor Solution. s12 Moment tensor: Scale 10^{16}Nm; M_{rr}0.58 $M_{\theta\theta}$-1.49 $M_{\phi\phi}$0.91 $M_{r\theta}$-1.17 $M_{\theta\phi}$1.50 $M_{\phi r}$3.08 Best double couple: NP1:ϕ_s75.00000° ,δ30.00000°,λ10.00000°. NP2:ϕ_s336.00000°,δ85.00000°,λ120.00000°. Principal axes: T 3.8400,Plg42.0000°,Azm275.0000°; N 0.0000,Plg30.0000°,Azm153.0000° ; P -3.8500,Plg33.0000°,Azm42.0000° M_o3.80000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c61; s95,c135; Duration: 1$\pm$0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.23$\pm$.18 $M_{\theta\theta}$-2.33$\pm$.14; $M_{\phi\phi}$1.10$\pm$.13; $M_{r\theta}$-3.25$\pm$.35; $M_{\theta\phi}$3.37$\pm$.11; $M_{\phi r}$6.38$\pm$.60; Best double couple: NP1:ϕ_s335.00000°,δ84.00000° ,λ115.00000°. NP2:ϕ_s78.00000°,δ26.00000°,λ14.00000°. Principal axes: T 7.5460,Plg45.0000°,Azm271.0000°; N 1.1260,Plg25.0000°,Azm153.0000° ; P -8.6710,Plg34.0000°,Azm44.0000° M_o8.10900×10^{16}
RSPR III 16 23 37 43.5 19.35N 67.92W 12–2 3.6
NEIC III 16 23 37 43.5 19.35N 67.92W 13 3.6 **¶16329750**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR III 22 02 09 28.8 18.98N 68.36W 158–3 3.7 ¶16341527
RSPR Event type ke.
RSPR III 25 20 29 12.2 19.11N 67.70W 26–40 3.0
NEIC III 25 20 29 12.0 19.11N 67.70W 26 2.9 **¶16360598**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR III 31 23 33 38.6 18.80N 67.18W 26–2 3.6
NEIC III 31 23 33 38.6 18.80N 67.18W 26 3.6 **¶16401589**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR IV 20 21 36 59.0 19.25N 67.94W 25–13 ¶16449638
RSPR Event type ke.
RSPR IV 27 03 42 47.7 19.18N 67.89W 70–10
NEIC IV 27 03 42 47.7 19.18N 67.89W 70 3.4 **¶16463262**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 03 10 05 15.9 18.49N 67.40W 16–1 ¶16489801
RSPR Event type ke.
ISC V 05 03 22 12.6–2.9 18.8N–.20 68.5W–.10 5–16 3.5b 34 1-67
ISCJB V 05 03 22 13.1–1.3 18.9N–.10 68.51W–.08 19–9 3.5s,3.4b **¶16497718**
RSPR V 05 03 22 14.7 18.88N 68.63W 25–19 3.9,3.4b
IDC V 05 03 22 14.7–1.7 19.24N 68.06W 0 4.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.4km s-min=7.7km az=28.0.
RSPR Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=20.2km az=29.0.
RSPR V 07 20 26 17.7 18.76N 68.74W 108–4 3.7 ¶16499106
RSPR Event type ke.
ISC V 21 18 29 15.7–.59 18.91N–.03 67.67W–.03 23–4 4.7b,3.9s 508 1-159
IDC V 21 18 29 12.0–.46 18.77N 67.65W 0 4.6,4.5 **¶16531807**
NEIC V 21 18 29 14.8 18.98N 67.89W 26 4.7b,4.6
RSPR V 21 18 29 14.9 18.98N 67.89W 26–29 4.2,4.6
ISCJB V 21 18 29 15.3–.62 18.95N–.03 67.65W–.02 27–5 4.6b,3.9s
ISC Event type fe.
NEIC Event type fe. Felt [II] at Higuey and Santo Domingo. Also felt at Azua and Otra Banda. Felt [IV] at Isabela and Mayaguez; [III] at Moca; [II] at Aguada, Aguadilla, Gurabo and San German, Puerto Rico. Also felt at Cabo Rojo, Caguas, Guanica, Hormigueros, Ponce, Rincon, San Juan, San Sebastian and Utuado. After RSPR.
RSPR Event type ke.
ISCJB Event type fe.
RSPR V 21 18 43 05.3 18.91N 67.73W 20–24 3.4
NEIC V 21 18 43 05.3 18.91N 67.74W 20 3.4 **¶16532047**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 19 32 37.2 19.15N 67.43W 27–21 2.9
NEIC V 21 19 32 37.2 19.15N 67.43W 27 2.9 **¶16532352**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 19 47 07.2 18.98N 67.73W 18–17 3.5
NEIC V 21 19 47 07.1 18.98N 67.73W 18 3.5 **¶16532052**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 20 01 29.0 19.18N 67.50W 8–31 2.9
NEIC V 21 20 01 29.0 19.18N 67.50W 8 2.8 **¶16533358**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 20 24 17.2 19.16N 67.50W 38–9 3.0
NEIC V 21 20 24 17.1 19.16N 67.50W 38 3.0 **¶16532054**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 20 35 25.5 18.84N 67.59W 6–3
NEIC V 21 20 35 25.0 18.84N 67.59W 5 2.6 **¶16533359**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 20 40 33.6 18.93N 67.79W 12–10 2.9
NEIC V 21 20 40 33.5 18.93N 67.79W 12 2.9 **¶16532055**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 23 32 39.5 19.14N 67.46W 12–3 3.0
NEIC V 21 23 32 39.5 19.14N 67.46W 12 3.0 **¶16532063**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 21 23 46 09.3 18.84N 67.81W 21–19 2.7 ¶16532065
RSPR Event type ke.
RSPR V 22 00 13 19.9 18.88N 67.74W 19–14 3.1
NEIC V 22 00 13 19.9 18.88N 67.74W 19 3.1 **¶16532067**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 22 00 23 13.3 19.17N 67.48W 9–4 3.0
NEIC V 22 00 23 13.3 19.17N 67.48W 9 3.0 **¶16532361**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 22 02 02 05.1 19.07N 67.64W 26–29 3.2
NEIC V 22 02 02 05.1 19.07N 67.64W 26 3.2 **¶16532070**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC V 22 02 06 43.4–1.4 18.92N–.07 67.53W–.05 29–11 3.9b 49 1-159
IDC V 22 02 06 40.1–.86 19.11N 67.40W 0 4.0,3.8L **¶16532072**
ISCJB V 22 02 06 42.7–.75 18.99N–.07 67.50W–.04 36–10 3.9b,3.5s
RSPR V 22 02 06 44.3 18.93N 67.48W 56–6 3.9,3.5s
NEIC V 22 02 06 44.3 18.93N 67.48W 56 3.9,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=16.2km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=5.2km az=17.3.
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC V 24 14 55 11.4–1.9 18.92N–.09 67.65W–.05 5–12 48 1-3
ISCJB V 24 14 55 11.3–1.3 19.00N–.06 67.60W–.06 6–7 **¶16538126**
NEIC V 24 14 55 14.4 18.87N 67.69W 8 3.4
RSPR V 24 14 55 14.4 18.87N 67.69W 8–31 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=6.7km az=34.0.
NEIC Event type se. After RSPR.
RSPR Event type ke.
RSPR V 25 17 16 14.5 18.00N 68.50W 86–6 ¶16545949
RSPR Event type ke.
RSPR V 31 12 34 41.4 19.06N 67.84W 33–18 3.0
NEIC V 31 12 34 41.4 19.06N 67.84W 33 3.0 **¶16552289**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 31 22 25 26.9 19.50N 67.70W 55–19 3.2
NEIC V 31 22 25 26.9 19.50N 67.70W 55 3.2 **¶16552789**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR VI 01 16 58 06.0 18.88N 68.28W 119–2 3.7 ¶16553321
RSPR Event type ke.
RSPR VI 03 10 26 50.5 18.79N 68.75W 156–2 3.5 ¶16556886
RSPR Event type ke.
ISC VI 04 05 55 28.0–2.1 19.3N–.10 67.51W–.06 27 24 1-4
ISCJB VI 04 05 55 32.5–1.2 19.12N–.10 67.45W–.06 27 **¶16556911**
NEIC VI 04 05 55 32.9 19.08N 67.42W 75 3.1
RSPR VI 04 05 55 32.9 19.08N 67.42W 75–8 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=4.5km az=27.0.
NEIC Event type se. After RSPR.
RSPR Event type ke.
RSPR VI 12 00 35 39.9 19.05N 67.58W 7–1 3.2
NEIC VI 12 00 35 39.9 19.05N 67.58W 7 3.2 **¶16591640**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR VI 18 09 05 04.3 18.88N 67.65W 18–6 3.0
NEIC VI 18 09 05 04.3 18.88N 67.65W 18 3.1 **¶16631599**
RSPR Event type ke.

NEIC Event type se. After RSPR.
RSPR VI 29 09 07 24.0 18.16N 68.68W 127–1 3.5
¶16685784
RSPR Event type ke.

(90) Puerto Rico region.

ISC I 10 15 08 57.5–.79 19.55N–.05 65.33W–.07 16 3.7b 63 1-69
IDC I 10 15 08 54.5–.86 19.50N 65.10W 0 4.0,3.7 **¶15916177**
ISCJB I 10 15 08 57.2–.71 19.62N–.04 65.42W–.06 16 3.7b,3.0s
NEIC I 10 15 09 00.2 19.67N 65.40W 25 3.8,3.0s
RSPR I 10 15 09 00.2 19.67N 65.40W 25–17 3.8,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=25.7km s-min=16.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.7km az=179.6.
NEIC Event type fe. Felt [II] at Guaynabo. Also felt at Fort Buchanan. After RSPR.
RSPR Event type ke.
RSPR I 11 06 02 45.3 19.47N 65.33W 110–7 3.6
NEIC I 11 06 02 45.3 19.47N 65.33W 110 3.6 **¶15918292**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR I 11 06 14 16.1 19.54N 65.30W 97–12 3.6
NEIC I 11 06 14 16.1 19.54N 65.30W 97 3.6 **¶15918293**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC II 22 20 54 31.7–.70 19.38N–.05 66.31W–.04 19 3.8b 52 1-72
IDC II 22 20 54 28.6–.86 19.44N 66.25W 0 4.1,3.7 **¶16117328**
ISCJB II 22 20 54 30.2–.54 19.47N–.03 66.32W–.05 19 3.8b,3.5s
RSPR II 22 20 54 33.8 19.32N 66.37W 74–14 3.8,3.5s
NEIC II 22 20 54 33.8 19.32N 66.37W 74 3.9b,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=30.1km s-min=14.8km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=161.2.
RSPR Event type ke.
NEIC Event type fe. Felt [III] at San Juan. After RSPR.
ISC III 16 23 04 06.2–1.8 19.37N–.08 65.39W–.04 1–12 76 1-6
NEIC III 16 23 04 09.2 19.48N 65.34W 56 3.8 **¶16329749**
RSPR III 16 23 04 09.2 19.48N 65.34W 56–18 3.8
ISC Event type ke.
NEIC Event type se. After RSPR.
RSPR Event type ke.
RSPR IV 05 06 34 30.2 19.10N 66.52W 17–3 3.5
NEIC IV 05 06 34 30.2 19.10N 66.52W 17 3.5 **¶16408856**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC IV 16 20 28 15.9–1.2 19.07N–.03 66.94W–.03 14–7 4.6b,3.1s 401 1-130
IDC IV 16 20 28 14.0–.57 19.06N 66.97W 0 4.3,4.2 **¶16442381**
ISCJB IV 16 20 28 16.8–.65 19.09N–.02 66.96W–.02 31–5 4.5b,3.3s
NEIC IV 16 20 28 17.0 19.22N 67.01W 18 4.6b,4.4
RSPR IV 16 20 28 17.0 19.22N 67.01W 18–7 4.4,4.4
BJI IV 16 20 28 19.8 19.00N 67.00W 49 4.9s,4.5
ISC Event type fe.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=39.7.
NEIC Event type fe. Felt [III] at Mayaguez. Felt widely in northwestern Puerto Rico. After RSPR. Moment Tensor Solution. s14 Moment tensor: Scale 10^{15}Nm; M_{rr}0.74 $M_{\theta\theta}$-1.62 $M_{\phi\phi}$0.88 $M_{r\theta}$-1.17 $M_{\theta\phi}$-1.20 $M_{\phi r}$3.92 Best double couple: NP1:ϕ_s268.00000°,δ10.00000°,λ-172.00000°. NP2:ϕ_s170.00000°,δ89.00000°,λ-80.00000°. Principal axes: T 5.1500,Plg43.0000° ,Azm251.0000°; N -2.0400,Plg10.0000°,Azm350.0000°; P -3.1100,Plg45.0000° ,Azm90.0000° M_o4.50000×10^{15}
RSPR Event type ke.
RSPR V 03 10 05 29.9 18.79N 65.01W 11–1 2.7
NEIC V 03 10 05 29.9 18.79N 65.01W 11 2.7 **¶16489802**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR V 06 03 20 48.3 19.55N 65.37W 73–14 3.5
NEIC V 06 03 20 48.3 19.55N 65.37W 73 3.5 **¶16497778**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC V 10 03 54 51.9–1.5 18.98N–.07 65.52W–.03 21–5 53 1-5
NEIC V 10 03 54 53.6 19.04N 65.56W 15 3.2 **¶16502528**
RSPR V 10 03 54 53.6 19.04N 65.56W 15–3 3.2
ISC Event type ke.
NEIC Event type se. After RSPR.
RSPR Event type ke.
ISC V 10 03 57 56.2–1.7 19.03N–.08 65.54W–.04 32–13 29 1-5
ISCJB V 10 03 57 53.5–2.0 19.2N–.10 65.58W–.05 21–19 **¶16502529**
NEIC V 10 03 57 56.0 19.15N 65.59W 16 2.9
RSPR V 10 03 57 56.0 19.15N 65.59W 16–5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=5.9km az=164.4.
NEIC Event type se. After RSPR.
RSPR Event type ke.
RSPR V 10 04 32 35.2 19.11N 65.63W 26–8 2.9
¶16502534
RSPR Event type ke.
ISC V 20 03 54 53.4–.93 17.85N–.04 65.59W–.02 19–3 3.7b 114 0-65
IDC V 20 03 54 50.4–.88 17.83N 65.76W 0 4.0L,3.7 **¶16530096**
ISCJB V 20 03 54 52.9–.45 17.81N–.04 65.60W–.02 25–4 3.6b,3.7
RSPR V 20 03 54 54.2 17.88N 65.60W 6–1 3.9,3.7
NEIC V 20 03 54 54.2 17.88N 65.60W 6 4.0b,3.9
ISC Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=11.5km az=39.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.3km az=16.9.
RSPR Event type ke.
NEIC Event type fe. Felt at Aguadilla, Aguas Buenas, Gurabo, Humacao, Isabela, Mayaguez, Naguabo, Rio Grande, Sabana Grande and San Juan. After RSPR.
RSPR V 23 14 45 53.7 18.89N 65.50W 18–6 3.3
¶16538104
RSPR Event type ke.
RSPR V 26 08 45 29.6 19.10N 66.49W 27–16 2.7
NEIC V 26 08 45 29.6 19.10N 66.49W 27 2.7 **¶16549359**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR VI 02 20 19 17.5 19.74N 65.84W 157–4 3.6
NEIC VI 02 20 19 17.5 19.74N 65.84W 157 3.6 **¶16555889**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR VI 03 00 33 46.4 17.55N 65.93W 2–1 3.0
NEIC VI 03 00 33 46.4 17.55N 65.93W 2 3.0 **¶16555901**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC VI 22 07 18 46.7–1.4 19.38N–.05 66.29W–.03 32–10 3.8b,3.4s 96 1-161
NEIC VI 22 07 18 47.3 19.51N 66.30W 38 3.7,3.4s **¶16643053**
RSPR VI 22 07 18 47.3 19.51N 66.30W 38–21 3.7,3.4s
IDC VI 22 07 18 49.6–2.0 19.29N 66.30W 53–19 4.0,3.9
ISC Event type ke.
NEIC Event type se. After RSPR.
RSPR Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=13.6km az=52.0.

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ISC I 22 14 50 40.7–1.5 18.82N–.08 64.57W–.03 41–18 3.5b 74 1-70
IDC I 22 14 50 34.6–3.7 19.00N 64.37W 0 4.0,4.0 **¶15958002**
ISCJB I 22 14 50 39.0–.87 18.92N–.08 64.55W–.02 39–13 3.9s,3.5b
NEIC I 22 14 50 40.0 18.86N 64.58W 9 3.6,3.5b
RSPR I 22 14 50 40.6 18.86N 64.58W 9–1 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=79.0km s-min=27.9km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=3.8km az=5.1.
NEIC Event type se. After RSPR.
RSPR Event type ke.
RSPR I 25 23 26 18.5 19.44N 64.77W 50–18 3.7
NEIC I 25 23 26 18.5 19.44N 64.77W 50 3.7 **¶15965860**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR I 28 21 48 34.5 19.13N 64.57W 15–11 3.5
NEIC I 28 21 48 34.0 19.13N 64.57W 15 3.5L **¶15979146**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR II 01 08 38 22.4 18.81N 64.45W 27–12 3.4
TRN II 01 08 38 20.2 18.70N 64.51W 28 3.4 **¶15993432**
NEIC II 01 08 38 22.4 18.81N 64.45W 27 3.4
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR II 05 02 29 04.8 19.18N 64.25W 10–21 3.7
NEIC II 05 02 29 04.8 19.18N 64.25W 10 3.7 **¶16006254**
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR II 15 20 29 53.2 19.11N 64.68W 99–2 3.6
NEIC II 15 20 29 53.2 19.11N 64.68W 99 3.6 **¶16026459**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC II 20 17 04 58.0–2.7 18.9N–.10 64.24W–.04 18–10 64 1-4
TRN II 20 17 04 58.9 18.76N 64.25W 32 **¶16033740**
ISCJB II 20 17 04 59.8–2.1 18.9N–.20 64.24W–.05 33–29
RSPR II 20 17 05 01.5 18.87N 64.25W 24–29 3.6
NEIC II 20 17 05 01.5 18.87N 64.25W 24 3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=27.7km s-min=5.0km az=11.6.
RSPR Event type ke.
NEIC Event type fe. Felt on Tortola. After RSPR.
ISC III 24 16 13 10.5–.77 18.40N–.06 64.84W–.03 104–5 3.8b 135 0-56
ISCJB III 24 16 13 09.8–.34 18.41N–.05 64.85W–.02 107–3 3.7b **¶16357317**
TRN III 24 16 13 09.6 18.39N 64.85W 100 3.7b
IDC III 24 16 13 10.3–5.0 18.47N 64.76W 93–41 3.7,3.6
RSPR III 24 16 13 12.2 18.36N 64.83W 96–0 3.9,3.6
NEIC III 24 16 13 12.2 18.36N 64.83W 96 4.0b,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=3.0km az=8.2.
IDC Error ellipse: s-maj=109.1km s-min=51.5km az=169.0.
RSPR Event type ke.
NEIC Event type fe. Felt [III] on Saint John. Also felt at Charlotte Amalie, Saint Thomas. Felt on Tortola, British Virgin Islands. After RSPR.
ISC IV 13 04 28 57.3–.24 18.82N–.04 64.32W–.02 39–2 5.2b,4.2s 1103 0-162
TRN IV 13 04 28 55.2 18.94N 64.28W 33 5.1,4.2s **¶16427695**
ISCJB IV 13 04 28 56.9–.26 18.83N–.02 64.30W–.01 49–3 5.1b,4.2s
MOS IV 13 04 28 57.4–1.1 18.79N 64.37W 51 5.1b,4.1s
GCMT IV 13 04 28 57.7–.20 18.98N 64.26W 44–1 5.2W,4.1s
BJI IV 13 04 28 57.7 19.00N 64.30W 31 5.4b,5.3s
NEIC IV 13 04 28 57.7 18.96N 64.26W 31 5.3b,5.1
IDC IV 13 04 28 59.7–1.4 18.71N 64.31W 62–12 4.9,4.8
ISC Event type fe.
TRN Event type fe. Felt in St. Maarten, MMI II.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.7km az=21.2.
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=116.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c86; s100,c153; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.41±.20 $M_{\theta\theta}$-2.39±.15; $M_{\phi\phi}$-1.03±.16; $M_{r\theta}$-0.22±.13; $M_{\theta\phi}$4.28±.11; $M_{\phi r}$4.12±.14; Best double couple: NP1:ϕ_s342.00000°,δ70.00000° ,λ127.00000°. NP2:ϕ_s97.00000°,δ41.00000°,λ31.00000°. Principal axes: T 6.4150,Plg51.0000°,Azm294.0000°; N 0.4810,Plg34.0000°,Azm148.0000° ; P -6.9060,Plg17.0000°,Azm46.0000° M_o6.66100×10^{16}
NEIC Event type fe. Felt [III] at Christiansted, Saint Croix and at Road Town, Tortola. Also felt [III] on Saint John and Saint Thomas. Felt [III] at Carolina and San Juan and [II] at Fajardo, Puerto Rico. Felt widely in eastern Puerto Rico. Felt [II] on Saint Martin. Also felt on Anguilla. After RSPR. Moment Tensor Solution. s20 Moment tensor: Scale 10^{16}Nm; M_{rr}1.68 $M_{\theta\theta}$-0.71 $M_{\phi\phi}$-0.98 $M_{r\theta}$0.63 $M_{\theta\phi}$3.70 $M_{\phi r}$1.83 Best double couple: NP1:ϕ_s355.00000° ,δ72.00000°,λ147.00000°. NP2:ϕ_s96.00000°,δ59.00000°,λ22.00000°. Principal axes: T 4.1200,Plg36.0000°,Azm312.0000°; N 0.5400,Plg53.0000°,Azm149.0000° ; P -4.6700,Plg8.0000°,Azm48.0000° M_o4.40000×10^{16}
IDC Error ellipse: s-maj=9.0km s-min=7.5km az=47.0.
NEIC IV 13 04 33 31.7 18.96N 64.34W 37 2.5
¶16440438
NEIC Event type se. After RSPR.
ISC IV 13 04 34 10.9–1.3 18.79N–.09 64.57W–.04 14–8 38 0-3
TRN IV 13 04 34 08.2 18.68N 64.61W 4 **¶602546106**
NEIC IV 13 04 34 09.8 18.97N 64.35W 34 3.4
ISC Event type se.
NEIC Event type se. After RSPR.
ISC IV 19 00 31 19.6–1.8 18.8N–.10 64.33W–.03 36–3 104 0-4
ISCJB IV 19 00 31 18.6–.89 18.80N–.09 64.34W–.03 41–6 **¶16445791**
RSPR IV 19 00 31 18.9 18.87N 64.31W 39–3 3.7
NEIC IV 19 00 31 18.9 18.87N 64.31W 39 3.7
TRN IV 19 00 31 18.3 18.71N 64.35W 35 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=3.8km az=8.3.
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC IV 20 21 37 19.8–1.3 18.81N–.07 64.92W–.03 25 36 0-2
TRN IV 20 21 37 19.3 18.74N 64.87W 41 **¶16449639**
ISCJB IV 20 21 37 20.0–1.2 18.83N–.08 64.96W–.04 25
NEIC IV 20 21 37 22.2 18.80N 64.92W 30 3.0
RSPR IV 20 21 37 22.2 18.80N 64.92W 30–4 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=4.6km az=157.6.
NEIC Event type se. After RSPR.
RSPR Event type ke.
ISC IV 23 03 12 43.6–.99 19.44N–.07 64.43W–.04 27 3.5b 58 2-55
IDC IV 23 03 12 39.1–1.7 19.40N 64.32W 0 3.9,3.5 **¶16452508**
ISCJB IV 23 03 12 42.0–.72 19.47N–.05 64.41W–.05 27 3.5b,3.5
RSPR IV 23 03 12 44.8 19.44N 64.43W 57–16 3.6,3.5
NEIC IV 23 03 12 44.8 19.44N 64.43W 57 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=27.4km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.0km az=14.1.
RSPR Event type ke.
NEIC Event type se. After RSPR.
RSPR IV 25 03 13 44.1 19.21N 64.59W 45–9 3.5
NEIC IV 25 03 13 44.1 19.21N 64.59W 46 3.5 **¶16456695**
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC IV 29 20 02 17.9–.43 19.75N–.04 64.44W–.04 52–3 4.4b,3.4s 221 1-163
TRN IV 29 20 02 11.9 20.42N 63.75W 66 4.5,3.4s **¶16485467**
ISCJB IV 29 20 02 16.6–.53 19.70N–.03 64.38W–.03 50–6 4.5b,3.4s
IDC IV 29 20 02 16.3–4.4 19.84N 64.36W 32–34 4.1,4.1
NEIC IV 29 20 02 17.7–2.9 19.74N 64.46W 43–5 4.9b,4.1
BJI IV 29 20 02 18.8 19.40N 64.50W 88 5.1b,4.9s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.5km az=29.4.
IDC Error ellipse: s-maj=13.6km s-min=12.5km az=43.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=9.4km az=100.0.
ISC IV 30 06 28 16.5–2.0 17.8N–.10 64.59W–.04 189–15 55 0-4
TRN IV 30 06 28 17.1 17.76N 64.60W 178 **¶16485211**
ISCJB IV 30 06 28 18.4–1.3 17.7N–.20 64.61W–.04 167–15
RSPR IV 30 06 28 21.2 17.93N 64.70W 160–3 3.6
NEIC IV 30 06 28 21.2 17.93N 64.70W 160 3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.4km s-min=6.5km az=5.5.
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC V 13 12 47 38.5–3.6 18.9N–.10 64.5W–.20 48–37 57 0-6
TRN V 13 12 47 36.0 18.81N 64.48W 57 **¶16509470**

ISCJB	V	13 12 47 36.3–1.4	18.9N–.10	64.5W–.10	61–16			
NEIC	V	13 12 47 37.8	18.86N	64.47W	58	3.6		
RSPR	V	13 12 47 37.8	18.86N	64.47W	58–3	3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=27.6km s-min=10.1km az=150.5.							
NEIC	Event type se. After RSPR.							
RSPR	Event type ke.							
ISC	**VI**	**01 16 29 50.0–2.7**	**19.1N–.20**	**64.62W–.05**	**42**		**35**	**0-2**
NEIC	VI	01 16 29 50.3	19.23N	64.63W	24	3.5		**¶16554274**
RSPR	VI	01 16 29 50.3	19.23N	64.63W	24–32	3.4		
ISC	Event type ke.							
NEIC	Event type se. After RSPR.							
RSPR	Event type ke.							
ISC	**VI**	**07 10 08 23.9–4.0**	**19.1N–.10**	**64.3W–.20**	**42**		**47**	**1-7**
RSPR	VI	07 10 08 24.1	19.04N	64.29W	64–8	3.6		**¶16561019**
NEIC	VI	07 10 08 24.1	19.04N	64.29W	64	3.6		
ISC	Event type ke.							
RSPR	Event type ke.							
NEIC	Event type se. After RSPR.							
ISC	**VI**	**18 12 28 47.3–.91**	**19.01N–.06**	**64.87W–.03**	**25**	**3.4b**	**58**	**1-70**
ISCJB	VI	18 12 28 46.6–.63	19.11N–.05	64.94W–.03	25	3.6s,3.3b		**¶16631903**
IDC	VI	18 12 28 46.6–4.9	19.17N	65.28W	0	3.8,3.6		
NEIC	VI	18 12 28 49.2	19.07N	64.89W	20	3.9,3.6		
RSPR	VI	18 12 28 49.2	19.07N	64.89W	20–2	3.9,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.9km s-min=3.8km az=9.8.							
IDC	Error ellipse: s-maj=107.0km s-min=23.3km az=108.0.							
NEIC	Event type se. After RSPR.							
RSPR	Event type ke.							
ISC	**VI**	**19 10 13 27.2–1.6**	**19.19N–.05**	**64.80W–.03**	**19–6**	**4.3b,3.3s**	**146**	**1-162**
IDC	VI	19 10 13 23.6–.72	19.21N	64.77W	0	4.1,4.0		**¶16632974**
TRN	VI	19 10 13 26.7	19.10N	64.92W	13	4.1,4.0		
NEIC	VI	19 10 13 29.5	19.23N	64.81W	12	4.5b,4.1W		
RSPR	VI	19 10 13 29.5	19.23N	64.81W	12–2	4.1,4.1W		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=18.4km s-min=14.5km az=62.0.							
NEIC	Event type fe. Felt [IV] at Vega Alta, Puerto Rico. After RSPR. Moment Tensor Solution. s10 Moment tensor: Scale 10^{15}Nm; M_{rr}1.47 $M_{\theta\theta}$-1.71 $M_{\phi\phi}$0.24 $M_{r\theta}$0.09 $M_{\theta\phi}$0.90 $M_{\phi r}$-0.14 Best double couple: NP1:ϕ_s117.00000°,δ47.00000°,λ98.00000°. NP2:ϕ_s285.00000° ,δ43.00000°,λ81.00000°. Principal axes: T 1.4800,Plg84.0000°,Azm92.0000° ; N 0.5800,Plg6.0000°,Azm292.0000°; P -2.0700,Plg2.0000°,Azm202.0000° $M_0$1.80000×10^{15}							
RSPR	Event type ke.							

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TRN	**I**	**08 01 22 24.5**	**16.65N**	**60.77W**	**23**	**3.6,3.6**		**¶600305120**
TRN	**I**	**11 22 13 19.2**	**16.72N**	**60.77W**	**24**	**3.8,3.6**		**¶600305333**
TRN	**I**	**12 04 29 54.5**	**17.38N**	**61.27W**	**66**	**3.7,2.9**		**¶600305378**
ISC	**I**	**12 08 01 17.6–.72**	**16.68N–.05**	**61.90W–.08**	**143–5**	**3.9b**	**46**	**0-61**
ISCJB	I	12 08 01 16.4–.38	16.70N–.04	61.90W–.07	146–3	3.7b		**¶17189979**
TRN	I	12 08 01 16.5	16.72N	61.81W	140	3.6,3.5		
IDC	I	12 08 01 17.3–2.4	16.67N	61.92W	138–24	3.8,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=12.2km s-min=4.8km az=150.9.							
IDC	Error ellipse: s-maj=36.8km s-min=16.1km az=27.0.							
ISC	**I**	**14 21 36 39.7–.98**	**18.89N–.04**	**60.36W–.04**	**12–5**	**4.8b,3.8s**	**606**	**2-166**
IDC	I	14 21 36 37.7–.40	18.93N	60.29W	0	4.5,4.4		**¶15954480**
BJI	I	14 21 36 38.9	19.00N	60.40W	28	5.4b,5.2s		
ISCJB	I	14 21 36 38.4–.17	18.87N–.01	60.39W–.02	10	4.8b,3.8s		
NEIC	I	14 21 36 39.6–.23	18.89N	60.34W	10	4.9b,3.8s		
MOS	I	14 21 36 40.0–1.1	18.87N	60.37W	25	4.8b,3.8s		
TRN	I	14 21 36 42.4	18.81N	60.40W	47	4.3,3.8s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=12.4km s-min=10.5km az=122.0.							
ISCJB	Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=14.4.							
NEIC	Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=145.0.							
MOS	Error ellipse: s-maj=13.0km s-min=11.4km az=57.9.							
ISC	**I**	**21 03 37 16.0–.46**	**17.29N–.03**	**63.18W–.03**	**164–4**	**5.0b**	**1047**	**0-163**
TRN	I	21 03 37 14.5	17.43N	63.09W	172	4.7		**¶15948003**
ISCJB	I	21 03 37 15.3–.14	17.27N–.02	63.23W–.02	169–1	4.9b		
IDC	I	21 03 37 16.0–.66	17.15N	63.26W	165–6	4.6,4.3		
MOS	I	21 03 37 15.6–.89	17.28N	63.24W	169	4.9b,4.3		
GCMT	I	21 03 37 16.2–.20	17.38N	63.16W	169–2	5.0W,4.3		
NEIC	I	21 03 37 16.7–.19	17.23N	63.20W	168–2	5.0b,4.8		
ISC	Event type fe.							
TRN	Event type fe. Felt St. Martin and Anguilla MM intensity II, III.							
ISCJB	Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=30.1.							
IDC	Error ellipse: s-maj=8.4km s-min=6.1km az=43.0.							
MOS	Error ellipse: s-maj=7.9km s-min=5.0km az=123.6.							
GCMT	Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c45; s104,c137; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.11±.14 $M_{\theta\theta}$0.71±.20; $M_{\phi\phi}$1.40±.20; $M_{r\theta}$-2.50±.11; $M_{\theta\phi}$0.84±.17; $M_{\phi r}$-2.57±.11; Best double couple: NP1:ϕ_s43.00000°,δ75.00000° ,λ-86.00000°. NP2:ϕ_s207.00000°,δ15.00000°,λ-105.00000°. Principal axes: T 4.0250,Plg30.0000°,Azm129.0000°; N 0.1980,Plg4.0000°,Azm222.0000° ; P -4.2180,Plg59.0000°,Azm318.0000° $M_0$4.12100×10^{16}							
NEIC	Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=219.0. Felt [III] on Anguilla and Saint Martin and [II] on Saint-Barthelemy. Also felt on Antigua, Barbuda and Saint Kitts. Felt on Saint John and Tortola, Virgin Islands and as far as San Juan, Puerto Rico.							
TRN	**I**	**21 15 36 41.5**	**18.97N**	**61.68W**	**3**	**4.0**		**¶600305890**
TRN	**I**	**25 04 30 19.8**	**16.91N**	**60.92W**	**21**	**3.9**		**¶600306092**
ISC	**I**	**25 10 32 36.9–.52**	**15.71N–.03**	**60.27W–.06**	**21–3**	**4.2b**	**110**	**1-133**
IDC	I	25 10 32 33.5–.67	15.79N	60.25W	0	4.3,4.1		**¶15968981**
TRN	I	25 10 32 38.5	15.61N	60.50W	18	4.5,4.0		
NEIC	I	25 10 32 38.7–1.2	15.70N	60.13W	39–10	4.5b,4.0		
ISC	Event type se.							
IDC	Error ellipse: s-maj=16.9km s-min=13.4km az=47.0.							
NEIC	Event type se. Error ellipse: s-maj=14.2km s-min=7.7km az=76.0.							
TRN	**I**	**28 13 48 48.5**	**17.62N**	**61.71W**	**26**	**3.7**		**¶600306368**
ISC	**I**	**29 20 37 32.3–1.0**	**15.21N–.03**	**60.53W–.07**	**35–3**	**3.7b**	**58**	**1-165**
IDC	I	29 20 37 27.1–1.1	15.23N	60.50W	0	4.2L,4.0		**¶17191271**
ISCJB	I	29 20 37 31.4–.67	15.20N–.03	60.50W–.06	46–8	3.5b,4.0		
TRN	I	29 20 37 31.0	15.21N	60.58W	35	3.8,3.4		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=28.0km s-min=15.7km az=78.0.							
ISCJB	Event type ke. Error ellipse: s-maj=9.7km s-min=3.8km az=166.6.							
ISC	**II**	**02 12 40 59.1–.36**	**17.36N–.03**	**63.45W–.03**	**162–2**	**5.0b**	**959**	**0-163**
TRN	II	02 12 40 57.5	17.54N	63.38W	166	5.1		**¶15998201**
ISCJB	II	02 12 40 58.0–.14	17.41N–.02	63.46W–.02	164–1	5.0b		
GCMT	II	02 12 40 58.8–.30	17.51N	63.54W	154–2	5.1W		
IDC	II	02 12 40 58.5–.56	17.28N	63.51W	159–5	4.9,4.6		
BJI	II	02 12 40 58.5	17.40N	63.50W	158	5.3b,4.6		
NEIC	II	02 12 40 59.2–.16	17.35N	63.47W	161–1	5.2b,5.1		
MOS	II	02 12 40 59.1–.90	17.42N	63.51W	171	5.0b,5.1		
ISC	Event type fe.							
TRN	Event type fe. Felt in St. Maarten, Anguilla and St. Johns. V.I. MM Intensity II.							
ISCJB	Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=37.6.							
GCMT	Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c32; s99,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.94±.11 $M_{\theta\theta}$4.64±.14; $M_{\phi\phi}$-2.70±.14; $M_{r\theta}$0.00±.11; $M_{\theta\phi}$1.27±.18; $M_{\phi r}$-2.10±.09; Best double couple: NP1:ϕ_s42.00000°,δ66.00000° ,λ-149.00000°. NP2:ϕ_s299.00000°,δ61.00000°,λ-27.00000°. Principal axes: T 4.8730,Plg3.0000°,Azm170.0000°; N -0.3130,Plg51.0000°,Azm76.0000° ; P -4.5600,Plg38.0000°,Azm262.0000° $M_0$4.71600×10^{16}							
IDC	Error ellipse: s-maj=9.5km s-min=7.8km az=82.0.							
NEIC	Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=219.0. Felt [IV] at Phillipsburg; [III] at Cole Bay, Cul de Sac and Princess Quarter; [II] at Marigot, Saint Martin. Felt [IV] at The Valley, Anguilla and [III] on Saint-Barthelemy. Felt [III] on Saint John and Tortola, Virgin Islands. Also felt on Saint Thomas. Felt [II] at San Juan, Puerto Rico. Felt widely in eastern Puerto Rico and as far as Tunapuna, Trinidad.							
MOS	Error ellipse: s-maj=10.6km s-min=5.1km az=126.6.							
TRN	**II**	**03 21 56 13.9**	**15.50N**	**61.33W**	**179**	**3.6,3.4**		**¶600743777**
TRN	**II**	**06 05 40 04.8**	**17.01N**	**61.56W**	**28**	**3.7,2.8**		**¶600743795**
TRN	**II**	**08 12 45 47.4**	**17.31N**	**62.06W**	**21**	**3.5**		**¶600743809**
TRN	**II**	**09 20 03 54.6**	**17.30N**	**61.75W**	**36**	**3.6**		**¶600743816**
TRN	**II**	**10 18 44 28.5**	**15.33N**	**60.08W**	**14**	**3.6,3.4**		**¶600743824**
TRN	**II**	**11 05 44 11.0**	**17.57N**	**61.02W**	**24**	**3.7**		**¶600743831**
ISC	**II**	**11 13 30 39.4–.52**	**15.07N–.03**	**61.37W–.05**	**181–4**	**4.1b**	**365**	**0-132**
TRN	II	11 13 30 37.7	15.10N	61.25W	185	4.1		**¶16022185**
ISCJB	II	11 13 30 38.2–.16	15.06N–.02	61.41W–.04	184–1	4.0b		
IDC	II	11 13 30 38.8–.43	15.04N	61.52W	169–3	4.1,3.8		
BJI	II	11 13 30 39.3	15.10N	61.40W	178	4.1,3.8		
NEIC	II	11 13 30 39.2–.21	15.06N	61.41W	180–2	4.4b,4.1		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=6.2km s-min=2.9km az=161.3.							
IDC	Error ellipse: s-maj=12.4km s-min=7.6km az=79.0.							
NEIC	Event type se. Error ellipse: s-maj=6.9km s-min=2.7km az=68.0.							
TRN	**II**	**11 19 16 42.0**	**17.87N**	**62.11W**	**31**	**3.6**		**¶600743833**
TRN	**III**	**01 11 40 52.7**	**15.70N**	**60.89W**	**68**	**3.5,2.6**		**¶600859272**
TRN	**III**	**03 07 20 16.3**	**15.03N**	**60.78W**	**56**	**3.5**		**¶600859277**
TRN	**III**	**05 03 20 57.0**	**17.47N**	**61.94W**	**27**	**3.7**		**¶600859280**
ISC	**III**	**06 09 31 19.6–.77**	**16.65N–.05**	**61.79W–.07**	**134–5**	**3.4b**	**40**	**0-84**
IDC	III	06 09 31 18.8–.58	16.70N	61.83W	120–6	3.6,3.5		**¶17193339**
ISCJB	III	06 09 31 18.5–.43	16.66N–.05	61.81W–.07	135–3	3.4b,3.5		
TRN	III	06 09 31 19.3	16.64N	61.71W	126	3.5,3.5		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=16.8km s-min=9.6km az=38.0.							
ISCJB	Event type ke. Error ellipse: s-maj=12.6km s-min=6.0km az=151.3.							
TRN	**III**	**07 21 05 12.3**	**16.91N**	**60.86W**	**3**	**3.9**		**¶600859286**
TRN	**III**	**09 14 29 04.8**	**15.04N**	**61.40W**	**201**	**3.7**		**¶600859294**
ISC	**III**	**12 17 31 42.5–2.0**	**18.70N–.07**	**63.26W–.06**	**24–15**	**3.8b**	**33**	**1-83**
IDC	III	12 17 31 39.2–1.6	18.80N	63.22W	0	4.1,3.9		**¶17194525**
ISCJB	III	12 17 31 40.6–1.5	18.78N–.06	63.23W–.05	19–11	3.8b,3.9		
TRN	III	12 17 31 44.8	18.69N	63.00W	56	3.8,3.9		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=38.4km s-min=20.2km az=160.0.							
ISCJB	Event type ke. Error ellipse: s-maj=10.6km s-min=6.3km az=35.8.							
ISC	**III**	**15 19 28 40.1–1.0**	**15.87N–.03**	**61.50W–.04**	**16–7**	**4.0b**	**47**	**0-84**
IDC	III	15 19 28 33.2–.85	15.32N	61.23W	0	4.2,4.0L		**¶600861281**
TRN	III	15 19 28 39.2	15.86N	61.58W	21	3.6,4.0L		
ISCJB	III	15 19 28 40.9–.41	15.91N–.03	61.56W–.06	28–3	3.9b,3.5s		
ISC	Event type ke.							
ISCJB	Event type ke.							
TRN	**III**	**16 03 38 48.5**	**16.68N**	**60.74W**	**25**	**3.6**		**¶600861288**
TRN	**III**	**18 12 46 08.0**	**16.10N**	**61.59W**	**144**	**3.6**		**¶600861304**
TRN	**III**	**20 06 56 16.9**	**16.91N**	**60.99W**	**15**	**3.6**		**¶600861320**
TRN	**III**	**23 07 13 47.3**	**16.87N**	**60.97W**	**14**	**3.6,2.9**		**¶600861332**
ISC	**III**	**27 00 54 51.2–.90**	**17.10N–.04**	**61.88W–.06**	**85–7**	**3.3b**	**58**	**0-58**
ISCJB	III	27 00 54 50.6–.51	17.10N–.04	61.89W–.06	91–5	3.3b		**¶17198706**
TRN	III	27 00 54 51.1	17.07N	61.87W	71	3.8,3.3		
IDC	III	27 00 54 55.0–8.7	17.21N	62.13W	105–54	3.4,3.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.6km s-min=4.1km az=146.3.							
IDC	Error ellipse: s-maj=123.4km s-min=60.3km az=180.0.							
TRN	**III**	**30 00 25 06.2**	**18.67N**	**62.81W**	**3**	**4.1**		**¶600861358**
TRN	**III**	**31 06 24 17.4**	**17.02N**	**61.42W**	**9**	**3.7,3.2**		**¶600861366**
TRN	**III**	**31 10 37 07.4**	**16.76N**	**61.18W**	**21**	**3.6,3.3**		**¶600861368**
ISC	**IV**	**01 16 41 08.0–1.6**	**18.00N–.08**	**63.84W–.05**	**121–11**		**66**	**1-3**
ISCJB	IV	01 16 41 08.0–.82	17.95N–.09	63.87W–.04	117–10			**¶16403150**
TRN	IV	01 16 41 08.5	17.71N	63.91W	28			
NEIC	IV	01 16 41 10.9	18.04N	63.99W	114	3.7		
RSPR	IV	01 16 41 10.9	18.04N	63.99W	114–1	3.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=14.4km s-min=5.8km az=12.4.							
NEIC	Event type se. After RSPR.							
RSPR	Event type ke.							
ISC	**IV**	**08 10 20 42.3–.70**	**17.40N–.06**	**63.21W–.06**	**162–6**	**3.5b**	**69**	**0-163**
NEIC	IV	08 10 20 41.0	17.45N	63.12W	170	4.2		**¶17200232**
TRN	IV	08 10 20 40.3	17.48N	63.08W	178	4.2		
ISCJB	IV	08 10 20 41.4–.35	17.38N–.06	63.17W–.06	169–3	3.5b		
IDC	IV	08 10 20 44.2–3.2	17.41N	63.32W	172–23	3.8,3.6		
ISC	Event type se.							
NEIC	Event type se. After TRN.							
ISCJB	Event type se. Error ellipse: s-maj=13.3km s-min=4.6km az=135.5.							
IDC	Error ellipse: s-maj=43.3km s-min=21.8km az=64.0.							
ISC	**IV**	**10 23 44 02.5–1.4**	**15.36N–.02**	**59.97W–.04**	**10–8**	**4.6b,3.3s**	**419**	**1-131**
ISCJB	IV	10 23 44 04.3–.20	15.39N–.01	59.93W–.02	33	4.6b,3.5s		**¶16525103**
BJI	IV	10 23 44 04.6	15.30N	59.90W	23	4.6b,3.5s		
TRN	IV	10 23 44 05.5	15.36N	60.11W	29	4.2,3.5s		
NEIC	IV	10 23 44 06.1	15.36N	60.12W	33	4.6b,4.2		
IDC	IV	10 23 44 07.3–2.0	15.38N	60.08W	43–19	4.2,4.2		
ISC	Event type fe.							
ISCJB	Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=12.3.							
TRN	Event type fe. Felt in Dominica, MMI II.							
NEIC	Event type fe. Felt on Barbados. After TRN.							
IDC	Error ellipse: s-maj=18.8km s-min=12.6km az=76.0.							
TRN	**IV**	**12 16 36 30.9**	**17.31N**	**61.57W**	**22**	**3.7**		**¶600972924**
TRN	**IV**	**15 08 44 14.2**	**16.54N**	**61.78W**	**122**	**3.8**		**¶600972972**
TRN	**IV**	**17 22 32 21.1**	**16.43N**	**60.84W**	**33**	**3.7**		**¶600973007**
ISC	**IV**	**22 01 25 41.0–1.0**	**17.52N–.09**	**63.1W–.10**	**166–8**	**3.4b**	**29**	**1-73**
TRN	IV	22 01 25 39.0	17.63N	63.04W	176	3.4		**¶17201765**
IDC	IV	22 01 25 38.7–2.9	17.65N	63.19W	133–37	3.8,3.8		
ISCJB	IV	22 01 25 40.2–.66	17.58N–.08	63.1W–.10	170–6	3.6b,3.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
TRN	**IV**	**25 07 15 10.3**	**15.43N**	**60.30W**	**8**	**3.5**		**¶600973149**
TRN	**IV**	**29 07 11 54.7**	**16.79N**	**61.24W**	**27**	**3.6**		**¶600973250**
TRN	**IV**	**29 14 35 24.4**	**15.16N**	**60.47W**	**54**	**3.6**		**¶600973251**
TRN	**V**	**05 01 24 22.6**	**17.75N**	**60.66W**	**3**	**3.6**		**¶601036136**
TRN	**V**	**10 04 31 37.3**	**15.86N**	**61.58W**	**15**	**2.0**		

¶601036151

TRN V 13 02 10 56.8 17.19N 61.63W 23 4.0
NEIC V 13 02 10 58.4 17.13N 61.74W 27 4.0 ¶17324851
TRN Event type fe. Felt Antigua MMI II.
NEIC Event type fe. Felt [II] at Saint John's, Antigua. Also felt at Carlisle and Potters Village. After TRN.
TRN V 23 21 47 24.5 16.35N 61.65W 120 3.7
¶601036310
TRN V 24 02 00 06.8 15.92N 60.56W 19 3.5
¶601036312
ISC V 26 13 27 59.1–1.5 15.09N–.04 61.15W–.09 151–8 52 0-6
TRN V 26 13 27 58.6 15.11N 61.09W 149 3.6 ¶601036329
ISCJB V 26 13 27 59.3–.67 15.11N–.03 61.13W–.09 146–5 3.6
FUNV V 26 13 28 03.0 12.73N 58.27W 194 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=4.2km az=165.6.
TRN V 31 12 01 04.7 18.50N 62.53W 3 3.9
¶601036340
TRN VI 02 05 30 25.3 15.14N 61.28W 185 3.5,2.6
¶601258826
ISC VI 03 03 57 50.0–2.3 16.97N–.08 60.4W–.10 22–8 53 1-19
TRN VI 03 03 57 47.8 17.02N 60.26W 26 4.5,3.9 ¶601258841
ISC Event type ke.
RSPR VI 03 05 36 18.8 19.81N 63.59W 67–7 3.4
NEIC VI 03 05 36 18.8 19.81N 63.59W 67 3.4 ¶16556885
RSPR Event type ke.
NEIC Event type se. After RSPR.
ISC VI 04 19 22 07.9–.92 15.81N–.02 61.53W–.03 14–6 3.7b 68 0-74
TRN VI 04 19 22 06.6 15.82N 61.53W 19 3.5 ¶17205248
ISCJB VI 04 19 22 08.4–.26 15.83N–.02 61.55W–.04 23–2 3.6b
IDC VI 04 19 22 09.9–3.1 16.03N 60.69W 45–21 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=2.4km az=160.9.
IDC Error ellipse: s-maj=73.0km s-min=6.4km az=78.0.
TRN VI 04 21 38 41.2 17.13N 61.13W 10 3.7
¶601258860
TRN VI 04 23 17 52.5 17.16N 61.12W 21 3.7
¶601258862
ISC VI 05 02 00 16.7–.64 18.60N–.06 61.76W–.06 26 3.8b,3.5s 41 1-87
IDC VI 05 02 00 13.0–.89 18.65N 61.63W 0 4.0,3.8 ¶17205268
ISCJB VI 05 02 00 15.1–.50 18.63N–.03 61.72W–.04 26 3.7b,3.5s
TRN VI 05 02 00 16.6 18.56N 61.82W 63 4.2,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=23.1km s-min=19.9km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=158.9.
TRN VI 05 09 25 31.9 15.87N 61.55W 21 3.5
¶601258871
TRN VI 05 22 05 59.8 18.65N 61.90W 21 3.9
¶601258880
TRN VI 06 01 25 00.3 17.78N 61.57W 29 3.8
¶601258887
TRN VI 08 04 37 16.0 17.38N 62.35W 88 3.5
¶601258919
ISC VI 09 04 18 39.7–.61 16.10N–.04 61.90W–.06 170–5 3.5b 80 0-84
ISCJB VI 09 04 18 38.9–.30 16.12N–.03 61.87W–.05 174–2 3.5b ¶17205595
TRN VI 09 04 18 38.3 16.15N 61.81W 175 3.7
IDC VI 09 04 18 39.5–.52 16.08N 61.88W 164–4 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.0km az=154.1.
IDC Error ellipse: s-maj=13.4km s-min=8.4km az=60.0.
TRN VI 10 21 47 25.8 15.92N 60.88W 24 4.3
¶601258952
TRN VI 13 07 37 47.5 15.68N 61.44W 7 1.7
¶601258987
TRN VI 13 20 30 34.5 15.25N 61.09W 151 3.7
¶601258990
TRN VI 14 09 15 48.0 18.78N 61.68W 25 4.0
¶601259002
TRN VI 16 06 52 26.6 17.53N 61.41W 19 3.7
¶601259021
TRN VI 17 11 21 55.8 16.10N 61.79W 178 3.6
¶601259036
TRN VI 18 06 30 02.3 17.63N 61.57W 25 3.7
¶601259048
TRN VI 18 15 07 12.1 16.31N 61.76W 149 3.5
¶601259052
TRN VI 19 05 46 56.2 18.37N 62.32W 1 4.0
¶601259058
ISC VI 20 10 59 03.5–.75 16.94N–.04 61.79W–.05 84–6 3.9b 57 0-61
ISCJB VI 20 10 59 02.7–.38 16.96N–.04 61.78W–.05 90–3 3.8b ¶17206591
IDC VI 20 10 59 03.2–.95 16.88N 61.87W 81–10 3.9,3.7
TRN VI 20 10 59 03.2 16.89N 61.83W 75 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=3.6km az=144.8.
IDC Error ellipse: s-maj=20.1km s-min=12.5km az=59.0.
TRN VI 23 11 58 37.1 16.91N 61.79W 19 3.5
¶601259091
TRN VI 25 10 16 28.4 15.60N 61.43W 10 1.3
¶601259120
TRN VI 25 14 34 04.6 15.60N 61.42W 9 1.3
¶601259123

(94) Caribbean Sea.

IDC II 06 07 28 04.8–19 16.90N 69.52W 0 3.8,3.5
¶17191782
IDC Error ellipse: s-maj=406.0km s-min=78.0km az=156.0.
ISC IV 12 02 10 23.4–.56 12.12N–.05 73.34W–.05 35 3.4b 48 2-152
ISCJB IV 12 02 10 20.4–.39 12.13N–.04 73.40W–.04 33 3.5b ¶17200717
FUNV IV 12 02 10 22.3 12.10N 73.52W 36 3.8W
IDC IV 12 02 10 23.8–.85 12.14N 73.11W 34–6 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.8km az=140.0.
IDC Error ellipse: s-maj=26.8km s-min=14.7km az=54.0.
ISC IV 24 02 10 38.2–.69 15.36N–.07 78.17W–.07 35 3.5b 32 3-149
IDC IV 24 02 10 33.6–1.0 15.31N 78.17W 0 4.1,4.0 ¶17201922
ISCJB IV 24 02 10 36.1–.39 15.32N–.03 78.21W–.05 33 3.4b,3.1s
JSN IV 24 02 10 55.3–1.0 16.64N 77.76W 14–999 3.4b,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=20.9km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=179.7.
JSN Error ellipse: s-maj=103.3km s-min=39.1km az=-1.0.
CASC V 09 07 44 35.0–6.5 13.37N 82.73W 0–99 4.5
¶602385440
CASC Error ellipse: s-maj=111.7km s-min=175.0km az=-1.0.
ISC VI 21 05 20 49.8–4.1 16.4N–.10 68.6W–.20 35 21 2-8
RSPR VI 21 05 21 00.1 17.99N 68.40W 160–2 3.4 ¶16638823
ISC Event type ke.
RSPR Event type ke.

(95) Windward Islands.

TRN I 02 00 08 44.3 11.53N 61.40W 80 3.5
¶600304843
TRN I 05 09 43 34.6 11.25N 61.69W 19 3.5
¶600304993
ISC I 26 01 18 03.0–1.4 11.50N–.04 61.80W–.05 25–15 21 1-7
FUNV I 26 01 17 59.9 11.53N 61.62W 19 2.5W ¶600306280
ISCJB I 26 01 18 03.2–.77 11.50N–.04 61.80W–.05 28–8 2.5W
TRN I 26 01 18 03.4 11.54N 61.71W 25 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.4km az=28.5.
TRN I 30 23 54 22.2 14.14N 60.41W 26 3.6,3.4
¶600306448
TRN I 31 22 00 16.0 13.45N 60.23W 20 3.5,3.0
¶600306486
ISC II 04 12 16 55.4–.27 11.33N–.03 62.12W–.03 155–2 5.2b 2008 1-170
ISCJB II 04 12 16 53.8–.17 11.47N–.02 62.23W–.01 148–1 5.1b ¶16005326
NEIC II 04 12 16 54.8–.20 11.32N 62.15W 149–1 5.3b,5.1
MOS II 04 12 16 54.0–.89 11.51N 62.29W 145 5.2b,5.1
GCMT II 04 12 16 54.8–.20 11.35N 61.96W 139–1 5.2W,5.1
TRN II 04 12 16 55.6 11.37N 61.83W 143 5.1,5.1
FUNV II 04 12 16 55.6 11.25N 61.90W 136 5.3W,5.1
IDC II 04 12 16 57.7–.81 11.47N 62.29W 170–6 5.3,4.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=155.7.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.7km az=219.0. Felt at Ciudad Bolivar and Ciudad Guayana. Felt [IV] at Mucurapo; [III] at Arima, Chaguanas, Port of Spain and Saint Joseph; [II] at Couva, San Fernando, Tacarigua and Tunapuna, Trinidad. Felt [III] on Grenada and [II] on Saint Vincent. Also felt on Barbados and Saint Lucia.
MOS Error ellipse: s-maj=6.0km s-min=4.5km az=103.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c75; s108,c164; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.30±.21 $M_{\theta\theta}$-4.55±.22; $M_{\phi\phi}$4.25±.23; $M_{r\theta}$5.46±.15; $M_{\theta\phi}$-1.74±.23; $M_{\phi r}$3.84±.16; Best double couple: NP1:ϕ_s42.00000°,δ89.00000°,λ55.00000°. NP2:ϕ_s310.00000°,δ35.00000°,λ177.00000°. Principal axes: T 6.8280,Plg37.0000°,Azm282.0000°; N 2.2480,Plg35.0000°,Azm43.0000°; P -9.0750,Plg34.0000°,Azm161.0000° $M_0$7.95100×10^{16}
TRN Event type fe. Felt widely in Trinidad MM intensitiesII,III, IV; Tobago II, Grenada MMI II,IV; St.Vincent MMI II, III; Saint Lucia MMI IV.
IDC Error ellipse: s-maj=7.5km s-min=5.9km az=107.0.
ISC II 08 19 33 58.7–.92 13.87N–.03 60.38W–.05 47–9 4.1b,3.3s 129 1-84
TRN II 08 19 33 55.4 13.85N 60.34W 14 4.0,3.3s ¶16328773
NEIC II 08 19 33 57.1 13.91N 60.34W 26 4.2b,4.0
ISCJB II 08 19 33 58.5–.39 13.88N–.02 60.40W–.04 61–3 4.1b,4.0
FUNV II 08 19 33 58.8 13.94N 60.09W 40 4.2W,4.0
IDC II 08 19 33 58.5–2.0 13.91N 60.36W 43–16 4.1,4.1
ISC Event type fe.
TRN Event type fe. Felt in Saint Lucia MM Intensities II, III; St. Vincent II, III.
NEIC Event type fe. Felt [III] on Saint Lucia and [II] on Saint Vincent. After TRN.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=2.9km az=0.9.
IDC Error ellipse: s-maj=30.3km s-min=13.3km az=82.0.
ISC II 09 21 56 08.1–1.5 11.27N–.04 61.85W–.04 80–13 24 1-7
FUNV II 09 21 56 08.4 11.26N 61.64W 48 2.9W ¶600743817
ISCJB II 09 21 56 09.9–.86 11.30N–.03 61.85W–.04 55–15 2.9W
TRN II 09 21 56 10.7 11.35N 61.67W 16 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=23.6.
TRN II 14 09 57 20.4 14.04N 60.72W 3 3.5,2.8
¶600743845
ISC II 27 21 01 28.8–1.7 11.13N–.09 61.54W–.04 17–11 15 0-7
FUNV II 27 21 01 28.3 11.26N 61.56W 12 2.6W ¶600743920
TRN II 27 21 01 31.2 10.95N 61.39W 23 3.0
ISC Event type ke.
ISC III 01 04 44 39.1–.60 11.22N–.03 62.22W–.03 127–5 3.7b 153 1-162
IDC III 01 04 44 35.7–4.8 11.41N 62.41W 92–44 3.9,3.8 ¶16484133
ISCJB III 01 04 44 38.9–.21 11.25N–.02 62.18W–.02 128–2 3.7b,3.8
NEIC III 01 04 44 41.0 11.27N 62.05W 126 4.3,4.3W
TRN III 01 04 44 41.3 11.28N 62.08W 120 4.3,4.3W
FUNV III 01 04 44 42.3 11.15N 62.11W 118 4.3W,4.3W
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=16.1km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=38.0.
NEIC Event type se. After TRN.
ISC III 06 07 45 08.3–1.2 11.03N–.03 62.40W–.03 33–4 39 0-6
FUNV III 06 07 45 07.6 10.86N 62.15W 81 3.1W ¶600859282
TRN III 06 07 45 10.1 10.97N 62.19W 73 3.5
ISC Event type ke.
ISC III 10 05 34 08.1–1.5 11.42N–.04 62.07W–.05 164–10 40 1-6
ISCJB III 10 05 34 09.5–.71 11.41N–.04 62.11W–.04 146–7 ¶600859296
FUNV III 10 05 34 10.5 11.52N 62.00W 135 3.0W
TRN III 10 05 34 10.7 11.44N 61.95W 155 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.9km az=34.4.
TRN III 11 00 04 32.5 14.05N 60.72W 15 3.5
¶600859299
ISC III 14 23 45 53.6–1.4 11.99N–.04 61.46W–.05 108–9 36 0-7
FUNV III 14 23 45 52.9 11.75N 61.29W 4 3.1W ¶600861274
TRN III 14 23 45 52.8 12.03N 61.46W 105 3.5
ISCJB III 14 23 45 53.3–.69 12.01N–.03 61.49W–.04 107–6 3.5
ISC Event type ke.
ISCJB Event type ke.
TRN III 19 19 22 03.4 13.93N 60.39W 25 3.6
¶600861315
ISC IV 05 10 50 55.4–1.2 11.27N–.03 61.54W–.04 33–5 25 1-7
FUNV IV 05 10 50 56.3 11.33N 61.35W 33 2.9W ¶600972816
TRN IV 05 10 51 00.7 11.62N 61.30W 57 3.7
ISC Event type ke.
TRN IV 09 21 51 21.0 14.88N 59.72W 3 3.8
¶600972876
TRN IV 13 05 11 25.1 14.53N 59.80W 138 3.7
¶600972937
TRN IV 18 04 07 40.4 14.04N 60.77W 24 3.6
¶600973018
TRN IV 19 18 10 17.6 11.21N 60.86W 27 3.5
¶600973042
TRN V 10 19 56 02.4 12.02N 60.74W 68 3.5
¶601036156
ISC V 14 02 49 46.7–1.5 11.27N–.04 62.05W–.05 148–10 37 1-7
ISCJB V 14 02 49 48.2–.65 11.29N–.03 62.11W–.04 129–6 ¶601036167
FUNV V 14 02 49 49.8 11.27N 61.96W 119 2.9W
TRN V 14 02 49 50.2 11.32N 62.03W 124 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.5km az=27.3.
ISC V 15 17 39 46.4–.55 14.82N–.03 61.45W–.05 183–4 3.7b 149 0-76
ISCJB V 15 17 39 45.5–.23 14.82N–.02 61.45W–.04 185–2 3.8b ¶16560074
TRN V 15 17 39 45.7 14.84N 61.45W 182 4.5
NEIC V 15 17 39 45.6 14.84N 61.41W 182 4.5,4.4b
IDC V 15 17 39 46.9–2.6 14.79N 61.53W 184–26 4.1,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=2.9km az=169.4.
NEIC Event type se. After TRN.
IDC Error ellipse: s-maj=17.6km s-min=11.8km az=75.0.
ISC V 15 22 56 06.5–1.9 11.48N–.06 62.29W–.05 124–15 23 1-6
ISCJB V 15 22 56 07.9–.95 11.39N–.06 62.27W–.05 101–10 ¶601036174
TRN V 15 22 56 07.3 11.66N 62.02W 144 3.6
FUNV V 15 22 56 11.2 11.39N 62.38W 89 2.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.2km az=141.2.
TRN V 18 21 48 45.7 13.86N 60.34W 23 4.0
NEIC V 18 21 48 45.9 13.87N 60.31W 27 4.0 ¶17394952
NEIC Event type se. After TRN.
ISC V 19 06 32 27.8–1.5 11.03N–.05 62.06W–.05 123–11 24 0-6
ISCJB V 19 06 32 28.3–.81 11.06N–.04 62.09W–.05 112–9 ¶601036286
FUNV V 19 06 32 29.9 11.07N 61.99W 97 3.0W
TRN V 19 06 32 30.6 11.07N 61.99W 104 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.0km az=38.6.
TRN V 23 14 47 42.9 12.90N 60.30W 18 2.8
¶601036308
TRN V 30 08 22 11.1 14.01N 60.59W 3 3.6
¶601036337
TRN VI 03 12 56 57.7 14.29N 59.89W 23 3.8,3.3
¶601258843

TRN VI 27 19 20 17.9 13.78N 60.48W 29 3.7
¶601259133

(96) Near north coast of Colombia.

ISC II 01 03 11 14.2–1.8 11.14N–.08 73.25W–.06 79–27 34 1-6
ISCJB II 01 03 11 13.5–.86 11.11N–.05 73.24W–.04 87–15 **¶601699780**
FUNV II 01 03 11 13.3 11.17N 73.28W 12 3.5W
RSNC II 01 03 11 16.2–.45 11.07N 73.24W 42–999 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.9km az=147.5.
RSNC Error ellipse: s-maj=11.4km s-min=5.7km az=-1.0.
ISC III 02 18 50 48.1–.30 8.56N–.03 76.90W–.03 34–0 5.5b,5.3s 1342 2-173
ISCJB III 02 18 50 46.1–.70 8.68N–.02 76.92W–.01 29–5 5.5b,5.3s **¶16176414**
MOS III 02 18 50 48.2–1.0 8.61N 77.06W 44 5.5b,5.3s
NEIC III 02 18 50 49.0–.00 8.56N 76.91W 39 5.5b,5.3s
NEIC III 02 18 50 49.4–.15 8.60N 76.86W 44 5.7W,5.6b
GCMT III 02 18 50 49.4–.10 8.64N 76.82W 40–0 5.8W,5.6b
IDC III 02 18 50 49.1–.51 8.52N 77.03W 45–4 5.2s,5.2
RSNC III 02 18 50 49.5–.89 8.61N 76.90W 32–27 5.2L,5.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=33.3.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=104.9.
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-1.90 $M_{r\theta}$-2.30 $M_{\theta\phi}$1.10 $M_{\phi r}$3.30 Best double couple: NP1:ϕ_s325.00000° ,δ76.00000°,λ83.00000°. NP2:ϕ_s172.00000°,δ15.00000°,λ116.00000°. Principal axes: T 4.3000,Plg58.0000°,Azm226.0000°; N 0.5000,Plg6.0000°,Azm327.0000° ; P -4.8000,Plg31.0000°,Azm61.0000° M_o5.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=55.0. Felt [III] at Medellin and [II] at Cartagena and Santa Marta. Also felt at Apartado, Bucaramanga, Monteria, Pereira, Tolu and Valledupar. Felt [IV] at Ancon, [III] at Panama and [II] at San Carlos, Panama. Also felt at Balboa, Cerro Azul, Kanir-Dup, La Chorrera, Meteti and Pacora. Felt [III] at Maracaibo, Venezuela.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c228; s133,c336;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}3.32±.05 $M_{\theta\theta}$1.45±.04; $M_{\phi\phi}$-4.77±.05; $M_{r\theta}$-2.19±.06; $M_{\theta\phi}$2.45±.04; $M_{\phi r}$2.24±.06; Best double couple: NP1: ϕ_s318.00000°,δ66.00000°,λ62.00000°. NP2:ϕ_s191.00000°,δ36.00000°,λ137.00000°. Principal axes: T 4.8030,Plg59.0000°,Azm188.0000°; N 1.6550,Plg25.0000°,Azm330.0000° ; P -6.4580,Plg16.0000°,Azm68.0000° M_o5.63000×10^{17}
IDC Error ellipse: s-maj=14.7km s-min=9.5km az=54.0.
RSNC Error ellipse: s-maj=8.0km s-min=5.9km az=-1.0.
RSNC III 11 20 13 32.8–.48 9.23N 77.79W 41–999 3.5L
¶602351993
RSNC Error ellipse: s-maj=10.2km s-min=6.4km az=-1.0.
FUNV III 12 09 30 57.5 11.48N 72.27W 20 3.5W
¶601699956
ISC III 24 06 40 30.0–3.5 12.8N–.20 72.7W–.10 100 25 1-7
RSNC III 24 06 40 29.9–.38 12.54N 71.66W 130–7 3.7L **¶601700016**
FUNV III 24 06 40 29.4 13.01N 72.85W 85 3.4W
ISC Event type ke.
RSNC Error ellipse: s-maj=17.6km s-min=35.1km az=-1.0.
ISC III 28 22 02 25.2–2.1 11.7N–.10 73.33W–.07 100 27 2-6
RSNC III 28 22 02 19.9–.40 11.87N 73.30W 198–40 3.1L **¶601700030**
FUNV III 28 22 02 19.4 12.00N 73.80W 36 3.8W
ISCJB III 28 22 02 21.7–1.2 11.87N–.06 73.40W–.05 100 3.8W
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 17 42 53.9–2.3 11.04N–.06 72.74W–.07 3–14 24 1-5
RSNC IV 22 17 42 55.1–.85 11.35N 72.89W 100–56 2.4L **¶601700181**
ISCJB IV 22 17 42 56.7–1.3 10.92N–.05 72.69W–.05 9–8 2.4L
FUNV IV 22 17 42 59.6 10.85N 72.59W 2 2.9W
ISC Event type ke.
RSNC Error ellipse: s-maj=26.1km s-min=70.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.8km az=38.3.
ISC V 04 14 28 41.7–2.0 11.7N–.10 73.12W–.08 14 21 1-7
RSNC V 04 14 28 45.2–.41 11.67N 73.16W 24–13 3.0L **¶601700263**
FUNV V 04 14 28 46.1 11.77N 73.06W 36 2.8W
ISC Event type ke.
RSNC Error ellipse: s-maj=9.5km s-min=8.1km az=-1.0.
ISC V 08 15 50 59.0–1.8 11.06N–.09 73.56W–.08 17 21 1-6
RSNC V 08 15 50 52.9–.53 11.35N 73.83W 198–21 3.3L **¶601700285**
ISCJB V 08 15 50 57.6–1.2 11.07N–.09 73.57W–.06 17 3.3L
FUNV V 08 15 51 00.3 11.06N 73.46W 5 2.6W
ISC Event type ke.
RSNC Error ellipse: s-maj=9.5km s-min=12.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=6.3km az=154.1.
ISC V 18 17 54 36.0–1.1 11.17N–.05 72.46W–.06 13 14 1-5
FUNV V 18 17 54 28.1 11.17N 73.15W 11 2.8W **¶601700344**
ISCJB V 18 17 54 35.4–.68 11.12N–.04 72.44W–.05 13 2.8W
RSNC V 18 17 54 36.4–.41 11.24N 72.57W 3–8 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.8km az=35.6.
RSNC Error ellipse: s-maj=5.2km s-min=5.6km az=-1.0.

(97) Near coast of Venezuela.

ISC I 03 09 26 29.2–1.8 10.84N–.07 62.15W–.07 99–13 15 0-4
ISCJB I 03 09 26 29.1–1.1 10.85N–.06 62.15W–.06 95–10 **¶600304886**
FUNV I 03 09 26 30.9 10.77N 62.09W 91 2.4W
TRN I 03 09 26 31.4 10.85N 62.03W 88 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.2km az=44.2.
ISC I 07 20 09 32.7–1.4 9.93N–.05 61.77W–.06 68–10 53 0-10
ISCJB I 07 20 09 32.2–.54 9.97N–.04 61.79W–.04 72–6 **¶600305077**
FUNV I 07 20 09 33.9 9.95N 61.65W 69 4.0W
TRN I 07 20 09 34.5 9.99N 61.62W 58 3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=37.7.
ISC I 10 03 28 51.4–1.6 10.86N–.10 62.24W–.05 94–10 16 0-6
ISCJB I 10 03 28 51.2–.97 10.9N–.10 62.25W–.06 92–9 **¶600305266**
FUNV I 10 03 28 53.7 10.78N 62.15W 76 2.4W
TRN I 10 03 28 55.5 11.32N 61.98W 13 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=6.8km az=158.7.
ISC I 10 11 24 32.2–1.8 10.79N–.10 62.17W–.05 104–10 18 0-6
ISCJB I 10 11 24 32.4–1.4 10.9N–.10 62.16W–.06 99–9 **¶600305268**
FUNV I 10 11 24 33.7 10.86N 62.06W 89 2.4W
TRN I 10 11 24 46.5 10.49N 61.80W 43 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=7.7km az=161.9.
ISC I 15 04 39 03.7–1.5 10.79N–.06 62.21W–.05 102–10 16 0-5
ISCJB I 15 04 39 04.6–.90 10.86N–.07 62.32W–.06 92–9 **¶600305570**
FUNV I 15 04 39 06.2 10.82N 62.21W 83 2.4W
TRN I 15 04 39 10.8 11.04N 61.86W 80 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.1km az=151.7.
ISC I 21 20 49 50.3–1.4 10.62N–.06 62.48W–.04 100–10 35 0-6
ISCJB I 21 20 49 50.6–.69 10.66N–.05 62.49W–.03 94–7 **¶600305892**
FUNV I 21 20 49 50.6 10.62N 62.34W 98 3.0W
TRN I 21 20 49 52.8 10.68N 62.39W 89 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.2km az=157.1.
ISC I 22 17 30 58.1–1.3 10.25N–.05 62.16W–.03 7–11 24 0-6
ISCJB I 22 17 30 58.7–.81 10.24N–.04 62.14W–.03 10–5 **¶600305923**
FUNV I 22 17 30 59.9 10.25N 62.13W 7 2.6W
TRN I 22 17 30 59.0 10.32N 62.14W 4 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=162.7.
ISC I 26 01 27 58.7–1.7 10.82N–.06 62.05W–.04 35–2 17 0-6
FUNV I 26 01 27 57.3 10.86N 61.84W 39 2.6W **¶600306281**
ISCJB I 26 01 27 59.0–.70 10.84N–.06 62.00W–.04 37–13 2.6W
TRN I 26 01 27 59.8 11.03N 61.83W 3 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.5km az=162.7.
ISC I 26 11 40 03.3–1.5 10.80N–.07 62.40W–.04 68–12 21 0-6
ISCJB I 26 11 40 02.8–.77 10.82N–.07 62.39W–.04 70–9 **¶600306284**
FUNV I 26 11 40 03.3 10.80N 62.32W 68 2.6W
TRN I 26 11 40 05.2 10.84N 62.29W 63 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.3km az=166.1.
ISC I 27 21 52 59.1–1.5 10.87N–.07 62.24W–.04 106–11 23 0-6
ISCJB I 27 21 52 59.1–.78 10.88N–.07 62.25W–.04 102–8 **¶600306330**
TRN I 27 21 53 00.9 10.90N 62.21W 92 3.2
FUNV I 27 21 53 01.0 10.90N 62.19W 90 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.7km az=164.2.
ISC I 28 12 23 43.0–2.1 10.56N–.09 62.60W–.07 94–14 15 0-3
ISCJB I 28 12 23 42.9–1.3 10.52N–.08 62.58W–.06 92–10 **¶600306367**
FUNV I 28 12 23 43.4 10.60N 62.53W 91 2.2W
TRN I 28 12 23 44.9 10.56N 62.47W 97 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=6.9km az=150.3.
ISC II 02 01 33 00.6–1.4 10.88N–.05 62.24W–.04 102–10 35 0-6
ISCJB II 02 01 33 01.6–.62 10.95N–.04 62.31W–.04 87–9 **¶600743768**
FUNV II 02 01 33 04.4 10.92N 62.31W 77 3.2W
TRN II 02 01 33 05.5 10.97N 61.98W 81 4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.4km az=142.3.
ISC II 03 08 20 35.6–1.0 10.39N–.04 62.67W–.03 15–8 30 0-5
FUNV II 03 08 20 35.6 10.37N 62.62W 4 3.1W **¶600743776**
ISCJB II 03 08 20 36.3–.56 10.47N–.04 62.71W–.03 17–6 3.1W
TRN II 03 08 20 38.4 10.60N 62.55W 5 3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.7km az=159.5.
ISC II 05 20 57 05.3–1.7 10.8N–.10 62.50W–.07 83 13 0-6
FUNV II 05 20 57 02.0 10.92N 62.23W 108 2.8W **¶601699800**
ISCJB II 05 20 57 04.6–1.2 10.8N–.10 62.51W–.07 83 2.8W
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 22 45 50.2–1.4 10.83N–.06 62.31W–.04 97–9 27 0-6
ISCJB II 06 22 45 50.4–.64 10.85N–.07 62.33W–.03 92–7 **¶600743798**
FUNV II 06 22 45 52.1 10.86N 62.26W 79 3.0W
TRN II 06 22 45 53.0 10.95N 62.21W 85 3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=4.9km az=165.0.
ISC II 08 09 41 15.7–1.3 10.73N–.04 62.49W–.04 108–8 32 0-6
ISCJB II 08 09 41 15.7–.66 10.75N–.04 62.52W–.03 104–7 **¶600743808**
FUNV II 08 09 41 17.5 10.81N 62.46W 95 3.4W
TRN II 08 09 41 17.9 10.69N 62.27W 111 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.5km az=149.8.
ISC II 20 10 39 04.1–1.9 12.2N–.10 70.07W–.04 29–8 28 0-7
ISCJB II 20 10 39 02.6–1.2 12.26N–.07 70.09W–.04 29–6 **¶601699862**
FUNV II 20 10 39 04.4 12.22N 70.10W 17 3.7W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.0km az=174.2.
ISC II 20 11 24 52.3–1.1 10.34N–.04 63.13W–.03 7–10 24 0-5
TRN II 20 11 24 49.8 11.06N 63.35W 3 3.8 **¶600743883**
ISCJB II 20 11 24 51.6–.64 10.35N–.04 63.12W–.03 11–5 3.8
FUNV II 20 11 24 52.7 10.32N 63.02W 12 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=176.6.
TRN III 09 18 04 43.2 10.78N 62.27W 84 3.6
¶600859295
ISC III 09 20 51 38.1–.68 10.66N–.04 62.53W–.03 92–6 3.7b 93 0-146
ISCJB III 09 20 51 37.7–.25 10.67N–.03 62.52W–.02 96–3 3.7b **¶17193578**
IDC III 09 20 51 38.3–4.1 10.71N 62.68W 92–42 4.0,3.9
FUNV III 09 20 51 40.4 10.62N 62.43W 78 4.3W,3.9
TRN III 09 20 51 41.4 10.78N 62.34W 85 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.0km az=144.6.
IDC Error ellipse: s-maj=33.0km s-min=17.4km az=36.0.
ISC III 10 15 47 28.5–.66 10.76N–.04 62.76W–.04 111–6 4.0b 100 0-160
IDC III 10 15 47 25.9–3.7 10.96N 62.57W 86–34 4.2,4.0 **¶17193638**
ISCJB III 10 15 47 28.0–.23 10.77N–.03 62.75W–.02 113–3 4.0b,4.0
FUNV III 10 15 47 30.7 10.71N 62.66W 102 4.0W,4.0
TRN III 10 15 47 31.1 10.81N 62.55W 117 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=14.4km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.0km az=146.8.
ISC III 12 02 34 30.5–1.4 10.70N–.05 62.23W–.04 92–9 24 0-6
ISCJB III 12 02 34 30.4–.67 10.73N–.05 62.24W–.04 91–7 **¶600859304**
FUNV III 12 02 34 31.8 10.78N 62.20W 82 2.8W
TRN III 12 02 34 31.7 10.72N 62.19W 87 3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.1km az=145.0.
ISC III 12 09 26 39.4–.86 12.06N–.05 69.89W–.04 28–5 91 0-22
NEIC III 12 09 26 40.8 12.08N 69.89W 17 **¶16404898**
FUNV III 12 09 26 40.8 12.08N 69.89W 17 4.1W
ISC Event type fe.
NEIC Event type fe. Felt at Punto Fijo. Also felt at Oranjestad, Aruba. After CAR.
ISC III 16 23 31 51.3–1.3 10.93N–.04 62.30W–.04 108–10 36 1-9
ISCJB III 16 23 31 51.6–.62 10.91N–.05 62.31W–.03 104–7 **¶600861291**
FUNV III 16 23 31 52.5 10.97N 62.17W 92 3.1W
TRN III 16 23 31 56.0 11.15N 62.24W 57 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.8km az=159.8.
ISC III 24 09 58 43.7–1.2 10.46N–.06 62.42W–.03 9–12 20 1-6
ISCJB III 24 09 58 45.2–.72 10.54N–.07 62.46W–.03 15–9 **¶600861335**
FUNV III 24 09 58 47.5 10.42N 62.51W 4 2.5W
TRN III 24 09 58 52.2 10.74N 61.99W 6 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.7km az=171.5.
ISC III 27 13 15 52.9–1.3 10.83N–.05 62.34W–.04 103–9 33 0-6
ISCJB III 27 13 15 52.7–.64 10.86N–.04 62.36W–.03 100–7 **¶600861345**
FUNV III 27 13 15 53.8 10.87N 62.23W 91 2.6W
TRN III 27 13 15 55.8 10.91N 62.21W 93 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.5km az=146.4.
ISC III 31 03 51 00.8–2.1 12.37N–.10 70.56W–.04 82–15 37 1-6
ISCJB III 31 03 51 01.9–.90 12.26N–.06 70.57W–.04 78–10 **¶601700043**
FUNV III 31 03 51 03.1 12.37N 70.56W 59 3.5W
RSNC III 31 03 51 07.0–.42 12.14N 70.72W 32–53 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.8km az=172.7.
RSNC Error ellipse: s-maj=27.7km s-min=18.3km az=-1.0.
ISC IV 03 23 20 07.1–1.5 10.72N–.07 62.41W–.04 103–11 25 1-6
ISCJB IV 03 23 20 07.0–.78 10.81N–.09 62.44W–.03 95–8 **¶600972787**
FUNV IV 03 23 20 08.4 10.79N 62.30W 76 2.8W
TRN IV 03 23 20 09.8 10.96N 62.32W 81 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.1km az=174.1.
ISC IV 10 08 39 52.9–1.4 10.79N–.04 62.23W–.04 125–10 44 0-9
ISCJB IV 10 08 39 53.2–.54 10.81N–.04 62.26W–.03 116–6 **¶600972893**
FUNV IV 10 08 39 55.4 10.84N 62.16W 101 3.2W
TRN IV 10 08 39 56.8 10.85N 62.09W 106 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=139.5.
ISC IV 11 11 57 33.8–1.4 10.64N–.04 62.67W–.04 118–10 30 1-6
ISCJB IV 11 11 57 34.7–.66 10.68N–.04 62.67W–.03 104–7 **¶600972907**
FUNV IV 11 11 57 35.6 10.68N 62.57W 100 3.1W
TRN IV 11 11 57 37.4 10.74N 62.47W 119 3.5
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.6km az=149.3.
ISC IV 19 12 09 50.0–1.3 10.78N–.04 62.33W–.04 102–10 37 1-8
ISCJB IV 19 12 09 49.4–.53 10.79N–.03 62.34W–.03 101–6 ¶600973040
FUNV IV 19 12 09 49.8 10.88N 62.13W 71 3.2W
TRN IV 19 12 09 51.2 10.80N 62.31W 94 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=144.7.
ISC IV 26 09 38 10.1–1.3 10.73N–.04 62.07W–.04 84–10 29 0-6
ISCJB IV 26 09 38 10.4–.60 10.80N–.04 62.11W–.04 74–8 ¶600973196
FUNV IV 26 09 38 12.6 10.67N 62.01W 33 3.1W
TRN IV 26 09 38 12.8 10.86N 62.07W 55 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.7km az=149.5.
ISC IV 29 22 13 40.4–1.6 10.82N–.05 62.25W–.05 116–11 18 1-5
ISCJB IV 29 22 13 40.7–.99 10.80N–.05 62.27W–.05 104–9 ¶600973252
FUNV IV 29 22 13 43.1 10.84N 62.27W 98 2.5W
TRN IV 29 22 13 46.2 10.96N 61.87W 96 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.8km az=44.3.
ISC V 02 19 46 01.0–2.0 11.35N–.07 71.69W–.05 106–15 37 0-6
ISCJB V 02 19 46 01.6–.75 11.30N–.04 71.65W–.03 98–7 ¶601700247
FUNV V 02 19 46 02.5 11.36N 71.66W 20 2.8W
RSNC V 02 19 46 04.2–.59 11.23N 71.67W 80–11 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.9km az=154.8.
RSNC Error ellipse: s-maj=4.9km s-min=5.7km az=-1.0.
ISC V 07 12 24 00.0–1.3 10.66N–.04 62.47W–.03 86–10 44 1-6
ISCJB V 07 12 23 59.8–.47 10.67N–.03 62.48W–.03 82–7 ¶601036143
TRN V 07 12 24 01.7 10.73N 62.46W 67 3.5
FUNV V 07 12 24 02.3 10.62N 62.39W 31 3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=142.8.
ISC V 08 07 28 02.0–1.3 10.73N–.04 62.34W–.04 99–9 45 1-6
ISCJB V 08 07 28 01.9–.49 10.77N–.03 62.39W–.03 93–7 ¶601036146
FUNV V 08 07 28 03.1 10.77N 62.24W 27 3.4W
TRN V 08 07 28 04.6 10.81N 62.22W 92 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.4km az=138.2.
ISC V 10 06 13 13.9–1.3 10.77N–.04 62.42W–.03 21–5 37 1-6
FUNV V 10 06 13 14.6 10.66N 62.26W 69 2.8W ¶601036153
TRN V 10 06 13 16.5 10.78N 62.27W 73 3.4
ISC Event type ke.
ISC V 16 22 18 22.1–.44 10.73N–.03 62.51W–.03 99–4 4.2b 352 1-161
ISCJB V 16 22 18 21.1–.18 10.76N–.02 62.49W–.02 104–1 4.2b ¶16560085
IDC V 16 22 18 22.7–.48 10.86N 62.56W 101–4 4.2,4.0
TRN V 16 22 18 23.8 10.78N 62.30W 103 4.6,4.0
FUNV V 16 22 18 23.0 10.66N 62.33W 96 3.7W,4.0
NEIC V 16 22 18 24.1 10.78N 62.29W 102 4.7b,4.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=136.2.
IDC Error ellipse: s-maj=12.9km s-min=8.7km az=94.0.
TRN Event type fe. Felt MMI II and III in north-west Trinidad.
NEIC Event type fe. Felt at Carenage and Cascade, Trinidad. After TRN.
ISC V 18 15 29 58.3–1.4 10.85N–.04 62.26W–.04 119–10 30 1-6
ISCJB V 18 15 29 58.7–.81 10.92N–.04 62.27W–.04 109–10 ¶601036284
FUNV V 18 15 30 00.2 10.89N 62.16W 100 3.2W
TRN V 18 15 30 07.1 11.13N 61.97W 24 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=135.4.
ISC V 19 20 06 47.5–1.5 10.74N–.05 62.38W–.04 91–13 21 1-6
ISCJB V 19 20 06 47.5–.76 10.71N–.05 62.38W–.04 87–9 ¶601036290
TRN V 19 20 06 48.9 10.81N 62.37W 78 3.1
FUNV V 19 20 06 50.6 10.65N 62.38W 70 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.3km az=153.8.
ISC V 21 23 34 58.6–1.3 10.73N–.04 62.31W–.04 98–8 31 0-6
ISCJB V 21 23 34 58.8–.60 10.74N–.05 62.32W–.03 93–6 ¶601036294
FUNV V 21 23 35 00.0 10.77N 62.24W 86 3.0W
TRN V 21 23 35 01.3 10.81N 62.24W 83 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.5km az=152.6.
ISC V 22 09 11 10.5–1.8 10.29N–.04 62.27W–.04 5–16 23 0-6
ISCJB V 22 09 11 11.1–1.1 10.26N–.04 62.29W–.03 5–8 ¶601036297
TRN V 22 09 11 11.6 10.22N 62.23W 10 3.4
FUNV V 22 09 11 11.4 10.25N 62.25W 1 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.1km az=155.5.
ISC V 25 17 30 17.3–1.3 10.75N–.05 62.36W–.03 92–9 33 0-6
ISCJB V 25 17 30 17.1–.56 10.77N–.05 62.37W–.03 90–7 ¶601036324
FUNV V 25 17 30 18.5 10.77N 62.27W 78 3.0W
TRN V 25 17 30 19.6 10.79N 62.18W 99 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.1km az=160.3.
ISC V 26 03 11 05.8–1.1 10.39N–.05 62.65W–.03 12–10 25 0-7
ISCJB V 26 03 11 05.9–.63 10.46N–.05 62.68W–.03 13–6 ¶601036327
TRN V 26 03 11 05.9 10.45N 62.63W 9 3.7
FUNV V 26 03 11 06.1 10.38N 62.60W 2 2.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=3.9km az=165.6.
FUNV V 26 22 50 25.8 10.62N 64.82W 5 3.0W
NEIC V 26 22 50 25.4 10.67N 64.78W 11 4.0W ¶17395087
NEIC Event type se. After CAR.
ISC V 31 01 19 07.7–1.2 10.20N–.04 62.28W–.03 4–10 50 0-8
ISCJB V 31 01 19 08.6–.80 10.26N–.03 62.31W–.02 13–5 ¶601036338
FUNV V 31 01 19 08.5 10.24N 62.24W 2 3.4W
TRN V 31 01 19 09.2 10.33N 62.25W 3 4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.0km az=151.1.
ISC VI 01 21 00 42.1–1.0 10.38N–.04 62.96W–.03 11–8 22 0-5
ISCJB VI 01 21 00 41.9–.69 10.37N–.03 63.02W–.03 5–6 ¶603244244
FUNV VI 01 21 00 42.5 10.35N 62.92W 2 3.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=5.7.
ISC VI 07 04 59 48.3–1.4 10.98N–.04 62.23W–.04 113–10 42 0-7
ISCJB VI 07 04 59 49.2–.62 11.04N–.03 62.29W–.04 97–7 ¶603243762
TRN VI 07 04 59 51.5 11.05N 62.07W 101 3.6
FUNV VI 07 04 59 51.1 10.91N 62.16W 94 2.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.8km az=44.8.
ISC VI 07 09 01 51.6–1.5 11.0N–.10 62.40W–.04 78–14 18 0-6
ISCJB VI 07 09 01 51.7–.92 10.9N–.10 62.40W–.04 77–11 ¶603243763
FUNV VI 07 09 01 53.2 10.77N 62.30W 76 2.9W
TRN VI 07 09 01 57.3 11.06N 62.07W 26 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=6.0km az=171.6.
FUNV VI 07 23 15 47.0 10.75N 65.70W 5 3.6W
¶603244348
ISC VI 19 00 45 15.9–1.3 10.37N–.04 62.30W–.03 14–11 37 0-7
TRN VI 19 00 45 16.6 10.49N 62.18W 1 3.6 ¶601259057
ISCJB VI 19 00 45 18.0–.44 10.41N–.05 62.38W–.02 24–5 3.6
FUNV VI 19 00 45 17.0 10.29N 62.26W 5 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=3.6km az=168.2.
ISC VI 22 02 32 52.6–1.3 10.27N–.03 62.06W–.03 11–10 44 0-7
FUNV VI 22 02 32 52.8 10.31N 62.00W 3 3.1W ¶603243900
ISCJB VI 22 02 32 53.8–.57 10.31N–.03 62.14W–.03 20–5 3.1W
TRN VI 22 02 32 56.4 10.47N 61.99W 6 3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=42.8.
FUNV VI 25 22 41 06.2 10.12N 63.52W 12 3.6W
¶603244661

FUNV VI 25 23 25 57.2 11.39N 70.59W 28 3.5W
¶603244663

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ISC I 05 01 15 04.3–1.3 10.65N–.04 61.37W–.04 60–8 28 0-7
ISCJB I 05 01 15 04.0–.77 10.70N–.04 61.40W–.05 76–9 ¶600304992
FUNV I 05 01 15 06.4 10.56N 61.38W 22 3.6W
TRN I 05 01 15 06.3 10.74N 61.41W 41 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.2km az=36.9.
ISC I 30 11 53 12.1–1.1 10.24N–.04 61.94W–.03 25–9 3.3b 60 0-79
IDC I 30 11 53 07.9–.89 10.40N 61.97W 0 3.8,3.6 ¶17191322
FUNV I 30 11 53 08.9 10.40N 61.73W 4 3.7W,3.6
ISCJB I 30 11 53 10.5–.61 10.18N–.03 61.98W–.03 20–5 3.3b,3.6
TRN I 30 11 53 12.7 10.32N 61.89W 8 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.6km s-min=17.3km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=138.1.
ISC II 07 00 16 14.7–1.2 10.50N–.04 61.99W–.03 47–9 39 0-8
ISCJB II 07 00 16 13.8–.44 10.52N–.04 62.03W–.03 55–6 ¶600743802
FUNV II 07 00 16 13.6 10.57N 61.81W 32 3.4W
TRN II 07 00 16 16.6 10.60N 61.91W 44 3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=159.4.
ISC II 10 03 37 28.7–1.3 10.56N–.04 62.00W–.03 51–9 36 0-6
FUNV II 10 03 37 27.1 10.33N 61.85W 21 2.9W ¶600743821
ISCJB II 10 03 37 28.3–.56 10.58N–.04 62.00W–.03 55–8 2.9W
TRN II 10 03 37 29.9 10.58N 61.92W 45 3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=147.7.
ISC II 17 09 07 17.2–.94 10.63N–.05 61.61W–.02 16–6 22 0-7
ISCJB II 17 09 07 17.1–.49 10.61N–.05 61.62W–.02 14–4 ¶600743866
TRN II 17 09 07 17.3 10.64N 61.59W 14 3.2
FUNV II 17 09 07 20.7 10.77N 61.77W 5 2.6W
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.1km az=2.7.
TRN Event type fe. Felt St. Joseph,Trinidad MMI II.
ISC II 21 05 28 53.5–.62 10.61N–.04 60.50W–.04 72–4 4.1b 113 1-145
IDC II 21 05 28 43.9–.83 10.30N 60.50W 0 4.2,4.1 ¶16398646
FUNV II 21 05 28 48.5 10.47N 60.12W 35 3.8W,4.1
NEIC II 21 05 28 49.6–.87 10.32N 60.34W 41–8 4.2b,4.0
ISCJB II 21 05 28 50.1–.68 10.48N–.04 60.40W–.04 59–5 4.1b,4.0
TRN II 21 05 28 51.1 10.50N 60.35W 72 4.2,4.0
ISC Event type se.
IDC Error ellipse: s-maj=24.7km s-min=14.4km az=5.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.1km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=3.9km az=40.0.
ISC III 04 18 42 06.3–1.3 10.87N–.03 61.82W–.04 66–9 54 0-6
FUNV III 04 18 42 06.9 10.86N 61.71W 48 2.9W ¶16852194
ISCJB III 04 18 42 06.2–.65 10.90N–.03 61.82W–.04 67–9 2.9W
TRN III 04 18 42 07.5 10.98N 61.64W 31 3.1
NEIC III 04 18 42 08.9 10.98N 61.67W 28 3.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.2km az=36.4.
NEIC Event type fe. Felt [II] at Diego Martin and Santa Cruz. After TRN.
ISC III 16 19 19 03.0–.89 10.30N–.05 60.60W–.06 61–7 4.5b 151 0-163
IDC III 16 19 18 54.8–.43 10.18N 60.51W 0 4.6,4.6L ¶16440422
NEIC III 16 19 19 00.5–.78 10.14N 60.50W 40–7 4.6b,4.5
FUNV III 16 19 19 00.5 10.15N 60.35W 57 4.3W,4.5
ISCJB III 16 19 19 01.5–.59 10.34N–.03 60.68W–.04 58–5 4.4b,3.7s
TRN III 16 19 19 04.7 10.51N 60.57W 48 4.5,3.7s
ISC Event type fe.
IDC Error ellipse: s-maj=14.2km s-min=12.4km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=100.0. Felt [II] on Trinidad.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.6km az=41.0.
TRN Event type fe. Felt Trinidad MMI II and III.
ISC III 27 16 51 39.8–1.3 10.65N–.04 61.69W–.04 77–8 46 0-7
ISCJB III 27 16 51 39.7–.51 10.68N–.04 61.71W–.04 75–5 ¶600861346
FUNV III 27 16 51 41.5 10.59N 61.69W 66 3.4W
TRN III 27 16 51 42.2 10.72N 61.60W 58 3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=136.0.
TRN Event type fe. Felt widely in Trinidad, MMI II, III, IV.
ISC IV 15 10 08 42.3–1.4 10.07N–.05 61.20W–.06 55–12 19 0-7
ISCJB IV 15 10 08 41.3–.76 10.06N–.04 61.21W–.06 61–9 ¶600972973
FUNV IV 15 10 08 42.3 10.05N 61.21W 12 2.5W
TRN IV 15 10 08 43.4 10.13N 61.20W 50 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.8km az=19.9.
ISC V 02 00 18 51.9–1.6 10.01N–.06 60.78W–.07 73–13 32 1-7
FUNV V 02 00 18 48.0 10.08N 60.51W 16 3.5W ¶601036132
ISCJB V 02 00 18 52.1–1.2 10.09N–.07 60.91W–.09 87–8 3.5W
TRN V 02 00 18 56.0 10.27N 61.04W 69 3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=7.3km az=36.9.
ISC V 09 18 01 35.9–1.2 10.89N–.03 61.75W–.04 56–9 65 0-6
ISCJB V 09 18 01 35.5–.42 10.91N–.03 61.74W–.04 59–7 ¶601036150
FUNV V 09 18 01 36.2 10.80N 61.69W 26 3.5W
TRN V 09 18 01 37.0 10.91N 61.66W 48 4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.7km az=29.8.
ISC V 14 03 31 00.4–2.0 10.14N–.06 60.18W–.09 98–14 27 1-8
TRN V 14 03 31 00.7 10.13N 60.15W 94 3.8 ¶601036168
ISCJB V 14 03 31 01.2–1.1 10.20N–.06 60.24W–.08 99–9 3.8
FUNV V 14 03 31 06.8 9.92N 60.37W 60 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=8.0km az=23.3.

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ISC I 01 12 09 26.1–1.4 6.81N–.04 73.06W–.05 173–9 30 0-5
ISCJB I 01 12 09 26.8–.75 6.84N–.04 73.09W–.05 163–7 ¶601699610
FUNV I 01 12 09 27.4 6.68N 73.10W 166 3.2W
RSNC I 01 12 09 29.9–.91 6.78N 73.16W 146–7 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.5km az=30.1.
RSNC Error ellipse: s-maj=4.1km s-min=6.8km az=-1.0.
ISC I 02 00 33 38.9–.69 6.81N–.04 73.05W–.04 162–5 3.5b 63 0-150
ISCJB I 02 00 33 37.8–.29 6.82N–.03 73.05W–.03 164–3 3.5b ¶17189172
FUNV I 02 00 33 38.3 6.73N 73.18W 170 3.7W
IDC I 02 00 33 38.9–.66 6.73N 72.95W 163–7 3.8,3.6
RSNC I 02 00 33 40.4–.82 6.80N 73.15W 148–5 3.5L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.3km az=43.5.
IDC Error ellipse: s-maj=17.4km s-min=7.6km az=133.0.
RSNC Error ellipse: s-maj=2.7km s-min=4.1km az=-1.0.
RSNC I 03 04 55 13.3–1.2 6.79N 73.16W 141–7 2.9L
¶601906929
RSNC Error ellipse: s-maj=3.7km s-min=6.2km az=-1.0.
ISC I 03 05 46 14.9–1.4 6.81N–.04 73.08W–.05 163–9 36 0-5
ISCJB I 03 05 46 15.2–.59 6.82N–.03 73.08W–.04 156–6 ¶601699617
FUNV I 03 05 46 16.5 6.77N 73.06W 167 3.1W
RSNC I 03 05 46 18.3–1.0 6.78N 73.18W 139–5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.2km az=33.6.
RSNC Error ellipse: s-maj=3.0km s-min=5.5km az=-1.0.
RSNC I 03 14 41 30.2–.87 6.78N 73.08W 146–6 2.8L
¶601906948
RSNC Error ellipse: s-maj=3.5km s-min=5.6km az=-1.0.
ISC I 04 01 11 47.3–1.5 6.80N–.04 73.07W–.05 167–10 28 0-5
ISCJB I 04 01 11 47.8–.77 6.81N–.04 73.10W–.05 161–7 ¶601699621
FUNV I 04 01 11 48.9 6.77N 73.06W 177 2.5W

RSNC I 04 01 11 50.7–.68 6.79N 73.16W 142–5 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.8km az=32.2.
RSNC Error ellipse: s-maj=2.4km s-min=4.9km az=-1.0.
ISC I 04 02 40 27.0–1.8 9.95N–.05 73.13W–.05 141–18 23 1-5
ISCJB I 04 02 40 27.1–.91 9.98N–.05 73.12W–.05 134–10 **¶601699622**
FUNV I 04 02 40 27.8 10.04N 73.27W 135 2.4W
RSNC I 04 02 40 30.2–.78 9.97N 73.20W 104–23 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.6km az=135.4.
RSNC Error ellipse: s-maj=4.0km s-min=6.4km az=-1.0.
ISC I 04 03 28 37.2–1.4 6.81N–.04 73.06W–.04 155–9 32 0-5
ISCJB I 04 03 28 37.8–.72 6.83N–.04 73.09W–.04 144–7 **¶601699623**
RSNC I 04 03 28 40.0–.83 6.80N 73.16W 136–5 2.8L
FUNV I 04 03 28 40.1 6.55N 72.85W 8 2.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.8km az=40.6.
RSNC Error ellipse: s-maj=2.6km s-min=4.2km az=-1.0.
ISC I 04 13 00 57.9–1.0 6.78N–.04 73.10W–.06 158–7 33 0-150
ISCJB I 04 13 00 58.0–.85 6.78N–.04 73.11W–.06 158–7 3.1b **¶17189423**
RSNC I 04 13 00 59.7–1.0 6.78N 73.13W 147–7 3.0L
IDC I 04 13 01 02.1–5.6 6.74N 73.98W 181–20 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.1km az=17.2.
RSNC Error ellipse: s-maj=3.8km s-min=5.9km az=-1.0.
IDC Error ellipse: s-maj=307.1km s-min=32.9km az=92.0.
ISC I 04 13 26 21.4–1.4 7.47N–.05 73.13W–.05 148–9 27 0-5
ISCJB I 04 13 26 21.4–.69 7.47N–.04 73.13W–.05 143–7 **¶601699625**
FUNV I 04 13 26 22.4 7.37N 73.19W 148 3.1W
RSNC I 04 13 26 23.9–1.0 7.43N 73.18W 128–11 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.8km az=39.1.
RSNC Error ellipse: s-maj=5.4km s-min=10.2km az=-1.0.
ISC I 04 20 24 32.5–1.4 6.84N–.04 73.07W–.05 166–9 32 0-5
ISCJB I 04 20 24 32.9–.70 6.84N–.04 73.09W–.05 161–7 **¶601699627**
FUNV I 04 20 24 34.2 6.77N 73.10W 162 3.2W
RSNC I 04 20 24 35.7–.62 6.83N 73.17W 142–3 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.4km az=33.8.
RSNC Error ellipse: s-maj=2.1km s-min=3.5km az=-1.0.
RSNC I 04 22 18 49.0–.88 6.82N 73.07W 147–7 2.1L
¶601906997
RSNC Error ellipse: s-maj=3.7km s-min=7.6km az=-1.0.
ISC I 04 23 19 51.6–1.5 6.83N–.05 73.09W–.06 163–10 25 0-5
ISCJB I 04 23 19 52.0–.79 6.86N–.05 73.13W–.05 158–7 **¶601699628**
FUNV I 04 23 19 53.1 6.84N 73.07W 174 2.5W
RSNC I 04 23 19 55.1–.72 6.82N 73.19W 138–5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.1km az=37.4.
RSNC Error ellipse: s-maj=2.7km s-min=5.3km az=-1.0.
ISC I 05 22 09 26.7–1.4 6.83N–.04 73.07W–.05 163–10 33 0-5
ISCJB I 05 22 09 27.5–.65 6.81N–.04 73.06W–.05 154–7 **¶601699635**
FUNV I 05 22 09 28.5 6.90N 73.13W 168 3.0W
RSNC I 05 22 09 30.7–.79 6.76N 73.15W 137–5 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.4km az=42.5.
RSNC Error ellipse: s-maj=2.7km s-min=3.9km az=-1.0.
ISC I 06 01 54 38.8–1.5 6.82N–.04 73.08W–.05 168–10 31 0-5
FUNV I 06 01 54 39.8 6.77N 73.04W 181 2.9W **¶601699636**
RSNC I 06 01 54 42.2–1.0 6.80N 73.17W 143–6 2.6L
ISC Event type ke.
RSNC Error ellipse: s-maj=3.2km s-min=5.0km az=-1.0.
ISC I 06 03 47 26.0–1.5 7.46N–.05 73.15W–.05 146–10 23 0-5
ISCJB I 06 03 47 25.9–.76 7.45N–.05 73.15W–.05 142–7 **¶601699637**
FUNV I 06 03 47 26.9 7.40N 73.23W 140 2.5W
RSNC I 06 03 47 28.0–.87 7.40N 73.15W 131–9 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.5km az=35.5.
RSNC Error ellipse: s-maj=3.8km s-min=8.1km az=-1.0.
ISC I 06 11 04 42.1–.52 6.81N–.04 73.05W–.04 159–5 4.5b 520 0-150
ISCJB I 06 11 04 41.0–.20 6.83N–.03 73.03W–.03 161–2 4.4b **¶16031125**
FUNV I 06 11 04 40.5 6.70N 73.19W 166 4.2W
IDC I 06 11 04 42.2–.49 6.78N 72.95W 164–5 4.3,4.0
RSNC I 06 11 04 43.4–.94 6.81N 73.13W 148–6 4.5L,4.0
NEIC I 06 11 04 45.3–.71 6.94N 72.96W 179–7 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.6km az=41.4.
IDC Error ellipse: s-maj=13.0km s-min=7.0km az=130.0.
RSNC Error ellipse: s-maj=5.2km s-min=4.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.5km az=221.0.
RSNC I 07 18 45 07.9–.61 6.81N 73.14W 146–5 2.6L
¶601907094
RSNC Error ellipse: s-maj=2.7km s-min=4.6km az=-1.0.
RSNC I 08 01 57 07.6–.75 6.80N 73.14W 144–5 2.3L
¶601907106
RSNC Error ellipse: s-maj=2.5km s-min=4.6km az=-1.0.
ISC I 08 02 01 59.2–1.6 10.68N–.06 73.37W–.07 10 19 2-5
ISCJB I 08 02 01 58.6–.94 10.66N–.05 73.34W–.05 10 **¶601699644**
FUNV I 08 02 01 58.9 10.75N 73.49W 9 2.8W
RSNC I 08 02 02 01.0–.48 10.63N 73.31W 12–15 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.0km az=39.6.
RSNC Error ellipse: s-maj=6.2km s-min=11.8km az=-1.0.
ISC I 08 02 44 50.9–1.3 6.84N–.04 73.09W–.04 171–9 43 0-6
ISCJB I 08 02 44 52.2–.56 6.81N–.04 73.09W–.04 158–6 **¶601699645**
FUNV I 08 02 44 53.7 6.90N 73.16W 171 3.6W
RSNC I 08 02 44 55.2–.78 6.79N 73.18W 139–4 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.0km az=41.0.
RSNC Error ellipse: s-maj=2.4km s-min=4.1km az=-1.0.
RSNC I 08 09 17 28.7–.82 6.80N 73.13W 145–6 2.5L
¶601907119
RSNC Error ellipse: s-maj=3.3km s-min=5.7km az=-1.0.
ISC I 09 00 55 07.8–.96 6.81N–.04 73.09W–.05 164–7 41 0-63
ISCJB I 09 00 55 07.1–.44 6.81N–.04 73.09W–.04 165–5 3.1b **¶17189732**
FUNV I 09 00 55 09.4 6.92N 73.08W 188 3.1W
RSNC I 09 00 55 10.0–1.2 6.77N 73.16W 149–6 3.2L
IDC I 09 00 55 11.4–2.8 5.32N 73.34W 269–22 3.4,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=35.5.
RSNC Error ellipse: s-maj=3.6km s-min=5.3km az=-1.0.
IDC Error ellipse: s-maj=103.5km s-min=21.5km az=66.0.
RSNC I 09 02 09 20.8–.98 6.83N 73.15W 144–7 2.4L
¶601907148
RSNC Error ellipse: s-maj=3.7km s-min=6.0km az=-1.0.
RSNC I 09 08 41 13.5–.69 6.81N 73.14W 140–5 2.3L
¶601907156
RSNC Error ellipse: s-maj=2.3km s-min=4.3km az=-1.0.
ISC I 09 18 51 06.8–1.4 6.84N–.04 73.21W–.05 134–10 25 0-6
ISCJB I 09 18 51 06.4–.72 6.85N–.04 73.20W–.05 135–7 **¶601699671**
FUNV I 09 18 51 06.9 6.71N 73.28W 136 2.8W
RSNC I 09 18 51 07.6–.66 6.87N 73.18W 126–4 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.8km az=27.9.
RSNC Error ellipse: s-maj=2.7km s-min=5.6km az=-1.0.
RSNC I 10 09 19 54.2–.63 6.79N 73.18W 143–4 2.4L
¶601907192
RSNC Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
RSNC I 10 12 24 49.5–.85 6.87N 73.17W 142–5 2.9L
¶601907194
RSNC Error ellipse: s-maj=3.1km s-min=4.9km az=-1.0.

ISC I 10 14 34 57.5–1.5 6.83N–.04 73.08W–.05 168–11 26 0-6
FUNV I 10 14 34 56.6 6.70N 73.27W 173 2.8W **¶601699683**
ISCJB I 10 14 34 57.3–.74 6.80N–.04 73.04W–.05 173–7 2.8W
RSNC I 10 14 35 00.8–.81 6.79N 73.15W 145–8 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.1km az=35.6.
RSNC Error ellipse: s-maj=3.4km s-min=5.7km az=-1.0.
ISC I 11 01 06 01.3–.82 6.81N–.04 73.05W–.04 163–6 3.5b 52 0-63
ISCJB I 11 01 06 00.4–.39 6.81N–.03 73.04W–.04 165–4 3.4b **¶17189884**
FUNV I 11 01 06 01.6 6.74N 73.13W 169 3.8W
IDC I 11 01 06 01.9–1.2 6.85N 73.05W 160–38 3.7,3.5
RSNC I 11 01 06 03.6–1.0 6.77N 73.12W 144–5 3.5L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.4km az=40.9.
IDC Error ellipse: s-maj=97.5km s-min=7.7km az=133.0.
RSNC Error ellipse: s-maj=3.1km s-min=4.9km az=-1.0.
ISC I 11 01 39 23.5–.62 6.81N–.03 73.03W–.04 156–5 3.7b 63 0-150
ISCJB I 11 01 39 22.4–.29 6.83N–.03 73.06W–.03 158–3 3.6b **¶17189886**
FUNV I 11 01 39 23.9 6.72N 73.08W 161 4.3W
IDC I 11 01 39 23.4–.64 6.73N 72.99W 154–6 3.9,3.6
RSNC I 11 01 39 25.9–.78 6.78N 73.17W 138–5 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.4km az=37.9.
IDC Error ellipse: s-maj=12.5km s-min=7.2km az=130.0.
RSNC Error ellipse: s-maj=2.8km s-min=3.8km az=-1.0.
ISC I 11 02 52 26.1–1.6 6.77N–.05 73.06W–.06 171–11 23 0-5
ISCJB I 11 02 52 26.4–.88 6.79N–.05 73.08W–.06 166–8 **¶601699690**
FUNV I 11 02 52 27.3 6.69N 73.10W 165 2.8W
RSNC I 11 02 52 29.6–.61 6.76N 73.13W 143–7 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.1km az=38.2.
RSNC Error ellipse: s-maj=2.6km s-min=4.4km az=-1.0.
ISC I 12 05 48 30.5–1.4 8.24N–.05 73.25W–.04 145–9 30 0-5
ISCJB I 12 05 48 30.6–.62 8.24N–.04 73.24W–.04 138–7 **¶601699696**
FUNV I 12 05 48 31.3 8.16N 73.33W 142 3.4W
RSNC I 12 05 48 32.5–.89 8.17N 73.30W 135–7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.2km az=143.2.
RSNC Error ellipse: s-maj=5.8km s-min=5.6km az=-1.0.
RSNC I 12 15 23 27.6–.94 6.75N 73.07W 141–8 2.5L
¶601907237
RSNC Error ellipse: s-maj=6.9km s-min=9.3km az=-1.0.
RSNC I 13 06 28 40.8–1.0 6.56N 73.57W 105–8 2.4L
¶601907249
RSNC Error ellipse: s-maj=4.6km s-min=4.3km az=-1.0.
ISC I 14 00 25 48.6–1.6 6.84N–.05 73.08W–.06 160–11 23 0-4
ISCJB I 14 00 25 49.5–.91 6.85N–.04 73.10W–.06 150–9 **¶601699702**
FUNV I 14 00 25 50.1 6.83N 73.09W 172 3.1W
RSNC I 14 00 25 51.9–1.0 6.81N 73.16W 137–8 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.8km az=28.1.
RSNC Error ellipse: s-maj=3.9km s-min=6.7km az=-1.0.
ISC I 14 01 10 49.4–.72 6.82N–.04 73.04W–.04 158–6 3.6b 55 0-150
ISCJB I 14 01 10 48.6–.34 6.83N–.03 73.06W–.04 162–3 3.5b **¶17190119**
FUNV I 14 01 10 49.9 6.78N 73.14W 164 4.0W
IDC I 14 01 10 49.5–1.2 6.68N 72.80W 172–12 3.9,3.7
RSNC I 14 01 10 51.4–1.1 6.80N 73.11W 142–6 4.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.9km az=39.6.
IDC Error ellipse: s-maj=29.6km s-min=13.7km az=127.0.
RSNC Error ellipse: s-maj=3.2km s-min=5.2km az=-1.0.
ISC I 14 07 27 55.0–1.4 6.80N–.04 73.08W–.05 172–10 34 0-5
ISCJB I 14 07 27 55.3–.66 6.81N–.03 73.06W–.04 168–7 **¶601699704**
FUNV I 14 07 27 55.2 6.70N 73.22W 174 3.2W
RSNC I 14 07 27 58.9–1.0 6.79N 73.17W 140–9 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.5km az=33.6.
RSNC Error ellipse: s-maj=3.2km s-min=5.5km az=-1.0.
RSNC I 14 09 10 54.8–1.0 6.83N 73.14W 140–7 2.5L
¶601907283
RSNC Error ellipse: s-maj=3.8km s-min=5.9km az=-1.0.
RSNC I 14 10 50 41.5–.96 6.82N 73.12W 155–7 2.4L
¶601907285
RSNC Error ellipse: s-maj=4.4km s-min=7.2km az=-1.0.
ISC I 16 01 55 57.1–1.5 6.83N–.04 73.08W–.05 174–9 34 0-5
ISCJB I 16 01 55 58.5–.71 6.81N–.04 73.09W–.04 159–7 **¶601699715**
FUNV I 16 01 55 58.6 6.88N 73.20W 178 3.1W
RSNC I 16 01 56 01.5–.94 6.79N 73.17W 141–6 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.6km az=38.0.
RSNC Error ellipse: s-maj=2.9km s-min=4.5km az=-1.0.
ISC I 17 20 12 50.4–1.5 6.84N–.04 73.08W–.06 160–10 29 0-5
FUNV I 17 20 12 49.1 6.73N 73.33W 168 3.0W **¶601699719**
ISCJB I 17 20 12 50.6–.74 6.82N–.04 73.06W–.05 157–8 3.0W
RSNC I 17 20 12 53.6–1.2 6.78N 73.12W 138–9 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.4km az=32.4.
RSNC Error ellipse: s-maj=4.5km s-min=8.4km az=-1.0.
ISC I 19 05 10 41.2–1.5 6.80N–.04 73.09W–.05 167–10 36 0-6
ISCJB I 19 05 10 41.7–.61 6.83N–.03 73.08W–.04 157–7 **¶601699723**
FUNV I 19 05 10 42.2 6.74N 73.16W 162 2.6W
RSNC I 19 05 10 44.7–.91 6.77N 73.15W 141–6 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.2km az=34.4.
RSNC Error ellipse: s-maj=2.9km s-min=4.8km az=-1.0.
ISC I 19 12 34 04.3–.96 6.86N–.04 73.02W–.05 162–7 35 0-150
ISCJB I 19 12 34 04.4–.66 6.84N–.04 73.07W–.05 159–6 3.1b **¶17190559**
IDC I 19 12 34 06.7–7.1 6.78N 73.14W 170–41 3.3,3.1
FUNV I 19 12 34 07.0 6.48N 71.78W 2 2.6W,3.1
RSNC I 19 12 34 07.1–1.0 6.82N 73.12W 140–5 2.8L,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.1km az=32.1.
IDC Error ellipse: s-maj=174.1km s-min=36.2km az=96.0.
RSNC Error ellipse: s-maj=3.1km s-min=4.5km az=-1.0.
ISC I 20 09 50 17.5–.73 6.54N–.04 73.33W–.05 130–6 4.0b 68 0-150
ISCJB I 20 09 50 16.8–.33 6.55N–.03 73.37W–.04 132–3 3.9b **¶16019245**
NEIC I 20 09 50 17.9–.68 6.59N 73.56W 128–7 4.1b
FUNV I 20 09 50 17.4 6.34N 73.48W 111 3.7W
RSNC I 20 09 50 18.9–1.2 6.55N 73.51W 113–8 4.0L
IDC I 20 09 50 18.1–.67 6.38N 73.20W 135–8 4.4,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.4km az=31.5.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=10.1km az=144.0.
RSNC Error ellipse: s-maj=3.1km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=36.0km s-min=7.7km az=131.0.
ISC I 20 15 37 31.9–.98 6.04N–.04 73.66W–.04 130–7 40 1-149
FUNV I 20 15 37 29.1 5.55N 73.74W 90 3.0W **¶17190631**
ISCJB I 20 15 37 31.8–.57 6.04N–.03 73.67W–.03 132–6 3.1b
IDC I 20 15 37 32.6–2.3 6.29N 74.86W 109–24 3.7,3.6
RSNC I 20 15 37 34.0–.97 6.05N 73.70W 113–7 3.2L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=42.5.
IDC Error ellipse: s-maj=69.6km s-min=26.4km az=56.0.
RSNC Error ellipse: s-maj=2.9km s-min=2.9km az=-1.0.
ISC I 21 01 48 01.0–1.5 6.80N–.05 73.06W–.05 161–10 29 0-5
RSNC I 21 01 48 03.1–.88 6.79N 73.10W 147–6 2.3L **¶601699731**
FUNV I 21 01 48 04.3 6.91N 72.98W 164 2.3W
ISC Event type ke.
RSNC Error ellipse: s-maj=3.6km s-min=6.3km az=-1.0.
ISC I 21 11 35 41.8–.95 6.79N–.04 73.07W–.06 160–7 32 0-150
FUNV I 21 11 35 39.8 6.65N 73.26W 169 2.8W **¶601699733**

ISCJB I 21 11 35 41.2–.61 6.79N–.04 73.05W–.06 165–6 3.2b
IDC I 21 11 35 44.3–5.2 6.63N 75.80W 125–60 3.4,3.3
RSNC I 21 11 35 44.9–.88 6.75N 73.17W 139–5 2.8L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.1km az=33.3.
IDC Error ellipse: s-maj=107.8km s-min=36.9km az=82.0.
RSNC Error ellipse: s-maj=2.9km s-min=4.8km az=-1.0.
ISC I 22 06 58 45.9–1.5 6.80N–.05 73.07W–.05 166–10 30 0-6
RSNC I 22 06 58 48.8–.96 6.77N 73.12W 146–7 2.2L ¶601699736
FUNV I 22 06 58 48.8 6.99N 73.17W 159 2.5W
ISC Event type ke.
RSNC Error ellipse: s-maj=3.8km s-min=5.7km az=-1.0.
RSNC I 22 08 12 35.4–.88 6.80N 73.20W 137–7 2.5L
¶601907478
RSNC Error ellipse: s-maj=2.9km s-min=5.0km az=-1.0.
RSNC I 22 09 36 17.3–.95 6.80N 73.10W 147–7 2.3L
¶601907482
RSNC Error ellipse: s-maj=4.0km s-min=6.8km az=-1.0.
RSNC I 23 03 17 26.5–.81 6.80N 73.09W 146–5 2.6L
¶601907499
RSNC Error ellipse: s-maj=2.6km s-min=4.1km az=-1.0.
ISC I 23 04 56 15.2–.94 6.81N–.04 73.05W–.04 165–6 47 0-150
ISCJB I 23 04 56 14.9–.52 6.83N–.04 73.06W–.04 163–5 3.1b ¶17190776
IDC I 23 04 56 16.1–.77 6.73N 72.93W 167–11 3.5,3.2
FUNV I 23 04 56 16.5 6.80N 73.14W 163 3.4W,3.2
RSNC I 23 04 56 17.6–1.1 6.77N 73.11W 146–7 3.2L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=3.8km az=43.5.
IDC Error ellipse: s-maj=61.3km s-min=7.5km az=132.0.
RSNC Error ellipse: s-maj=4.1km s-min=6.6km az=-1.0.
ISC I 23 12 26 55.5–.94 8.49N–.04 73.09W–.05 143–7 43 0-151
ISCJB I 23 12 26 54.8–.44 8.47N–.04 73.11W–.04 141–5 3.4b ¶17190803
RSNC I 23 12 26 56.8–.95 8.42N 73.17W 142–6 3.1L
FUNV I 23 12 26 58.1 8.48N 73.09W 127 3.4W
IDC I 23 12 26 59.8–7.8 8.41N 73.27W 176–38 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.4km az=135.8.
RSNC Error ellipse: s-maj=5.2km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=261.4km s-min=30.0km az=92.0.
RSNC I 23 13 19 17.3–.89 6.81N 73.15W 142–5 2.8L
¶601907519
RSNC Error ellipse: s-maj=2.8km s-min=4.6km az=-1.0.
ISC I 24 03 29 02.4–.83 6.83N–.04 73.09W–.05 165–6 50 0-150
ISCJB I 24 03 29 01.6–.43 6.83N–.04 73.07W–.04 169–4 3.4b ¶17190854
IDC I 24 03 29 02.5–.71 6.68N 72.93W 161–8 3.8,3.5
FUNV I 24 03 29 03.1 6.79N 73.11W 173 3.4W,3.5
RSNC I 24 03 29 04.7–1.0 6.82N 73.14W 147–7 3.4L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=3.9km az=38.6.
IDC Error ellipse: s-maj=35.5km s-min=7.6km az=132.0.
RSNC Error ellipse: s-maj=4.0km s-min=5.8km az=-1.0.
RSNC I 24 13 58 30.7–.89 6.78N 73.14W 140–5 2.5L
¶601907540
RSNC Error ellipse: s-maj=3.7km s-min=5.7km az=-1.0.
ISC I 24 20 27 36.9–.69 6.84N–.04 73.07W–.04 160–5 3.3b 64 0-154
ISCJB I 24 20 27 35.9–.35 6.84N–.03 73.06W–.03 165–4 3.5b ¶17190923
FUNV I 24 20 27 37.7 6.81N 73.15W 169 3.2W
IDC I 24 20 27 37.2–.73 6.85N 73.03W 159–7 3.8,3.6
RSNC I 24 20 27 39.9–.97 6.78N 73.17W 139–6 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.4km az=42.4.
IDC Error ellipse: s-maj=24.2km s-min=8.1km az=132.0.
RSNC Error ellipse: s-maj=2.9km s-min=4.5km az=-1.0.
ISC I 25 04 18 57.5–.70 6.84N–.04 73.08W–.04 158–6 3.6b 59 0-150
ISCJB I 25 04 18 56.5–.31 6.86N–.03 73.10W–.03 157–3 3.5b ¶17190939
IDC I 25 04 18 57.5–.68 6.80N 72.97W 157–9 4.0,3.7
FUNV I 25 04 18 58.9 6.90N 73.14W 160 3.6W,3.7
RSNC I 25 04 18 59.5–1.1 6.79N 73.20W 143–5 4.1L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.6km az=38.9.
IDC Error ellipse: s-maj=25.6km s-min=7.6km az=131.0.
RSNC Error ellipse: s-maj=2.9km s-min=4.7km az=-1.0.
ISC I 25 18 22 07.4–1.2 7.30N–.04 73.06W–.05 30–11 22 0-6
ISCJB I 25 18 22 06.8–.48 7.32N–.04 73.07W–.04 48–11 ¶601699746
RSNC I 25 18 22 06.3–.81 7.32N 73.01W 17–4 2.9L
FUNV I 25 18 22 07.5 7.35N 73.00W 7 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.8km az=42.6.
RSNC Error ellipse: s-maj=2.6km s-min=5.9km az=-1.0.
ISC I 25 22 06 44.9–1.6 9.81N–.05 73.36W–.05 121–16 24 1-5
ISCJB I 25 22 06 45.2–.76 9.78N–.05 73.35W–.04 105–12 ¶601699747
RSNC I 25 22 06 46.5–.65 9.81N 73.41W 100–22 2.3L
FUNV I 25 22 06 47.0 9.79N 73.42W 100 3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.5km az=142.5.
RSNC Error ellipse: s-maj=7.0km s-min=4.3km az=-1.0.
ISC I 26 14 46 30.3–1.5 6.80N–.04 73.08W–.06 165–10 30 0-6
FUNV I 26 14 46 28.6 6.61N 73.18W 179 3.0W ¶601699749
ISCJB I 26 14 46 30.2–.69 6.81N–.04 73.08W–.06 165–7 3.0W
RSNC I 26 14 46 32.9–1.2 6.80N 73.13W 145–6 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.8km az=27.8.
RSNC Error ellipse: s-maj=4.0km s-min=7.4km az=-1.0.
RSNC I 26 20 42 18.7–.90 6.77N 73.08W 138–6 2.3L
¶601907592
RSNC Error ellipse: s-maj=4.0km s-min=7.0km az=-1.0.
ISC I 27 12 32 52.0–.92 6.76N–.05 73.12W–.06 158–7 29 0-150
IDC I 27 12 32 51.9–.77 6.81N 73.12W 159–8 3.6,3.3 ¶17191106
ISCJB I 27 12 32 52.1–.68 6.78N–.04 73.13W–.05 156–6 3.3b,3.3
RSNC I 27 12 32 54.7–.95 6.75N 73.18W 139–6 3.4L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=7.6km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.1km az=34.1.
RSNC Error ellipse: s-maj=2.7km s-min=4.6km az=-1.0.
ISC I 28 01 46 10.9–1.5 6.80N–.05 73.10W–.05 161–10 29 0-5
ISCJB I 28 01 46 10.6–.73 6.79N–.04 73.10W–.05 162–7 ¶601699751
FUNV I 28 01 46 11.1 6.61N 73.12W 157 2.6W
RSNC I 28 01 46 12.9–1.3 6.79N 73.14W 147–8 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.0km az=40.5.
RSNC Error ellipse: s-maj=4.8km s-min=7.9km az=-1.0.
ISC I 28 23 39 02.2–.56 6.79N–.03 72.98W–.04 157–5 4.2b 152 0-150
ISCJB I 28 23 39 01.4–.20 6.77N–.02 73.00W–.03 156–2 4.2b ¶15979842
IDC I 28 23 39 01.5–.63 6.75N 73.01W 150–6 4.1,3.7
FUNV I 28 23 39 02.8 6.80N 73.09W 169 3.6W,3.7
NEIC I 28 23 39 03.2–.40 6.68N 72.91W 168–4 4.3b,3.7
RSNC I 28 23 39 04.1–1.1 6.81N 73.16W 138–6 4.1L,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.0km az=36.7.
IDC Error ellipse: s-maj=12.2km s-min=7.1km az=128.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=114.0.
RSNC Error ellipse: s-maj=3.0km s-min=4.6km az=-1.0.
ISC I 30 09 48 59.6–1.5 6.84N–.05 73.08W–.06 156–10 27 0-6
ISCJB I 30 09 48 59.7–.69 6.81N–.05 73.05W–.07 156–7 ¶601699766
FUNV I 30 09 49 00.6 6.79N 73.14W 159 3.0W
RSNC I 30 09 49 01.8–1.4 6.80N 73.11W 142–7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=5.1km az=36.4.
RSNC Error ellipse: s-maj=5.3km s-min=10.0km az=-1.0.
ISC I 30 17 37 44.4–1.7 6.82N–.05 73.10W–.06 159–12 23 0-4
ISCJB I 30 17 37 44.5–.95 6.81N–.05 73.07W–.06 158–9 ¶601699770
FUNV I 30 17 37 44.7 6.75N 73.14W 169 3.0W
RSNC I 30 17 37 46.5–.97 6.78N 73.12W 146–7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=5.4km az=32.4.
RSNC Error ellipse: s-maj=4.0km s-min=7.5km az=-1.0.
RSNC I 30 22 12 19.9–1.1 6.78N 73.12W 142–7 2.5L
¶601907739
RSNC Error ellipse: s-maj=3.6km s-min=5.8km az=-1.0.
ISC I 31 11 23 22.7–.94 6.86N–.04 73.12W–.05 159–7 47 0-150
ISCJB I 31 11 23 22.1–.48 6.84N–.04 73.10W–.04 163–5 3.4b ¶17191402
FUNV I 31 11 23 23.7 6.88N 73.19W 166 3.5W
IDC I 31 11 23 23.5–.76 6.74N 72.92W 164–10 3.8,3.5
RSNC I 31 11 23 25.7–.92 6.82N 73.17W 134–6 3.4L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=37.0.
IDC Error ellipse: s-maj=51.9km s-min=7.8km az=131.0.
RSNC Error ellipse: s-maj=2.9km s-min=5.1km az=-1.0.
RSNC I 31 23 41 09.9–1.0 6.81N 73.10W 143–5 2.1L
¶601907763
RSNC Error ellipse: s-maj=3.6km s-min=6.5km az=-1.0.
ISC II 01 03 35 29.4–1.4 6.83N–.04 73.09W–.05 163–8 34 0-6
ISCJB II 01 03 35 29.6–.62 6.84N–.04 73.08W–.04 158–6 ¶601699781
FUNV II 01 03 35 30.1 6.77N 73.23W 163 3.2W
RSNC II 01 03 35 33.3–.82 6.76N 73.18W 139–5 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=35.7.
RSNC Error ellipse: s-maj=3.2km s-min=4.7km az=-1.0.
ISC II 01 10 25 36.1–.97 6.80N–.05 73.05W–.06 163–6 41 0-150
ISCJB II 01 10 25 35.7–.60 6.81N–.05 73.04W–.06 164–5 3.5b ¶17191472
FUNV II 01 10 25 35.9 6.71N 73.20W 167 3.6W
IDC II 01 10 25 37.2–1.2 6.78N 72.93W 169–15 3.8,3.5
RSNC II 01 10 25 38.4–1.3 6.76N 73.11W 149–6 3.4L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.6km az=39.2.
IDC Error ellipse: s-maj=50.9km s-min=14.2km az=128.0.
RSNC Error ellipse: s-maj=5.0km s-min=8.7km az=-1.0.
RSNC II 01 12 57 04.6–.60 6.33N 73.53W 114–8 1.9L
¶602350973
RSNC Error ellipse: s-maj=4.2km s-min=3.3km az=-1.0.
ISC II 02 15 53 54.0–.94 6.84N–.04 73.07W–.05 159–7 52 0-150
ISCJB II 02 15 53 53.6–.46 6.83N–.03 73.05W–.04 161–5 3.6b ¶17191552
IDC II 02 15 53 54.4–.75 6.78N 72.94W 159–11 3.8,3.6
FUNV II 02 15 53 55.5 6.89N 73.13W 164 3.4W,3.6
RSNC II 02 15 53 56.3–1.0 6.81N 73.11W 142–6 3.5L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=37.3.
IDC Error ellipse: s-maj=53.7km s-min=7.5km az=131.0.
RSNC Error ellipse: s-maj=3.0km s-min=5.1km az=-1.0.
ISC II 03 02 10 37.2–1.4 6.83N–.04 73.09W–.04 162–9 39 0-5
ISCJB II 03 02 10 37.3–.60 6.81N–.03 73.07W–.04 159–6 ¶601699786
FUNV II 03 02 10 38.1 6.80N 73.16W 167 2.8W
RSNC II 03 02 10 39.6–.91 6.81N 73.13W 146–6 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.9km az=39.2.
RSNC Error ellipse: s-maj=3.2km s-min=4.8km az=-1.0.
ISC II 04 16 29 28.8–1.5 6.83N–.05 73.11W–.06 160–9 29 0-5
ISCJB II 04 16 29 29.1–.73 6.87N–.04 73.12W–.05 151–7 ¶601699794
FUNV II 04 16 29 29.6 6.78N 73.15W 164 2.8W
RSNC II 04 16 29 32.2–.82 6.76N 73.17W 138–7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.7km az=38.3.
RSNC Error ellipse: s-maj=4.2km s-min=6.0km az=-1.0.
ISC II 05 20 33 28.6–1.4 6.67N–.07 76.78W–.06 10 19 1-146
ISCJB II 05 20 33 28.4–.91 6.64N–.06 76.75W–.05 10 3.2b ¶17191759
RSNC II 05 20 33 30.3–.74 6.59N 76.70W 4–8 3.1L
IDC II 05 20 33 35.5–1.6 6.63N 76.19W 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.5km az=148.4.
RSNC Error ellipse: s-maj=4.4km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=39.1km s-min=30.6km az=21.0.
ISC II 06 00 02 51.5–1.3 6.83N–.04 73.09W–.04 168–8 45 0-6
ISCJB II 06 00 02 51.9–.55 6.83N–.03 73.05W–.04 162–5 ¶601699801
FUNV II 06 00 02 52.6 6.74N 73.21W 166 3.5W
RSNC II 06 00 02 55.6–.73 6.79N 73.18W 140–5 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.9km az=38.3.
RSNC Error ellipse: s-maj=2.4km s-min=4.0km az=-1.0.
ISC II 06 04 35 06.9–1.3 7.33N–.03 73.03W–.05 3–11 27 0-5
ISCJB II 06 04 35 07.9–.77 7.32N–.03 73.07W–.04 15–5 ¶601699803
RSNC II 06 04 35 07.7–1.2 7.34N 73.06W 4–8 2.8L
FUNV II 06 04 35 10.6 7.30N 72.96W 5 3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.8km az=37.6.
RSNC Error ellipse: s-maj=2.7km s-min=7.3km az=-1.0.
ISC II 06 17 45 28.9–1.1 9.66N–.07 73.67W–.06 19 17 1-6
FUNV II 06 17 45 27.1 9.75N 73.93W 21 2.9W ¶601699804
RSNC II 06 17 45 31.9–.89 9.46N 73.45W 0–12 2.2L
ISC Event type ke.
RSNC Error ellipse: s-maj=9.7km s-min=7.4km az=-1.0.
ISC II 06 19 21 47.9–.81 6.83N–.04 73.06W–.05 160–6 3.1b 51 0-150
ISCJB II 06 19 21 47.4–.40 6.84N–.03 73.07W–.04 162–4 3.2b ¶17191821
FUNV II 06 19 21 49.2 6.81N 73.07W 169 3.4W
IDC II 06 19 21 49.1–4.0 6.72N 73.09W 172–28 3.4,3.4
RSNC II 06 19 21 50.6–.79 6.79N 73.13W 143–6 3.4L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.7km az=37.5.
IDC Error ellipse: s-maj=68.3km s-min=25.5km az=81.0.
RSNC Error ellipse: s-maj=3.2km s-min=4.9km az=-1.0.
ISC II 07 01 40 33.5–1.4 6.84N–.04 73.07W–.05 160–8 45 0-6
ISCJB II 07 01 40 33.6–.53 6.84N–.03 73.06W–.04 157–5 ¶601699807
FUNV II 07 01 40 35.6 6.84N 73.03W 166 3.1W
RSNC II 07 01 40 36.5–.80 6.80N 73.13W 140–6 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.7km az=36.1.
RSNC Error ellipse: s-maj=3.1km s-min=5.3km az=-1.0.
ISC II 08 20 45 43.9–1.5 6.80N–.05 73.10W–.05 165–10 30 0-6
ISCJB II 08 20 45 44.3–.76 6.84N–.04 73.12W–.04 159–8 ¶601699814
FUNV II 08 20 45 44.7 6.73N 73.14W 170 2.6W
RSNC II 08 20 45 47.3–.53 6.78N 73.18W 141–5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.8km az=135.5.
RSNC Error ellipse: s-maj=2.9km s-min=3.7km az=-1.0.
ISC II 09 17 48 12.4–1.4 6.83N–.04 73.05W–.05 166–8 43 0-5
ISCJB II 09 17 48 13.7–.57 6.80N–.04 73.04W–.04 154–5 ¶601699816
RSNC II 09 17 48 15.7–1.0 6.76N 73.12W 148–5 3.1L
FUNV II 09 17 48 15.9 6.87N 73.10W 144 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.4km az=35.1.
RSNC Error ellipse: s-maj=3.0km s-min=4.8km az=-1.0.
ISC II 09 23 14 30.3–1.5 6.80N–.05 73.08W–.06 160–10 28 0-5
ISCJB II 09 23 14 30.8–.79 6.82N–.05 73.08W–.05 152–8 ¶601699817
FUNV II 09 23 14 31.2 6.74N 73.13W 162 2.9W
RSNC II 09 23 14 33.6–.55 6.74N 73.17W 139–5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.2km az=36.6.
RSNC Error ellipse: s-maj=2.5km s-min=4.7km az=-1.0.
ISC II 10 06 15 33.1–1.4 6.84N–.04 73.08W–.06 165–9 48 0-8
ISCJB II 10 06 15 33.6–.51 6.86N–.03 73.07W–.04 158–5 ¶601699818
FUNV II 10 06 15 34.3 6.76N 73.16W 166 3.5W
RSNC II 10 06 15 36.2–.74 6.82N 73.14W 144–5 3.2L
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=3.8km az=31.5.
RSNC Error ellipse: s-maj=2.9km s-min=4.7km az=-1.0.
ISC II 10 19 13 45.1–.97 6.79N–.04 73.07W–.05 153–7 37 0-150
ISCJB II 10 19 13 45.1–.66 6.77N–.04 73.07W–.05 153–6 3.1b **¶601699824**
FUNV II 10 19 13 45.5 6.79N 73.20W 156 3.4W
RSNC II 10 19 13 48.1–1.0 6.75N 73.13W 133–7 3.3L
IDC II 10 19 13 49.4–6.3 6.74N 75.31W 147–91 3.3,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.5km az=30.1.
RSNC Error ellipse: s-maj=3.0km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=275.6km s-min=34.7km az=84.0.
ISC II 11 00 28 08.3–1.6 10.86N–.08 73.35W–.06 17 30 1-6
FUNV II 11 00 28 06.5 10.93N 73.51W 14 3.0W **¶601699825**
ISCJB II 11 00 28 07.2–.91 10.82N–.06 73.35W–.05 17 3.0W
RSNC II 11 00 28 11.3–.68 10.75N 73.33W 23–20 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.7km az=146.5.
RSNC Error ellipse: s-maj=14.8km s-min=5.8km az=-1.0.
RSNC II 11 02 14 46.4–.63 6.75N 73.04W 148–5 2.3L
¶602351240
RSNC Error ellipse: s-maj=4.3km s-min=8.8km az=-1.0.
ISC II 13 09 58 49.7–.66 6.83N–.04 73.06W–.04 160–5 3.5b 68 0-150
ISCJB II 13 09 58 48.8–.30 6.83N–.03 73.04W–.03 163–3 3.6b **¶17192148**
FUNV II 13 09 58 48.4 6.74N 73.24W 176 3.5W
IDC II 13 09 58 49.6–.67 6.73N 72.95W 160–7 3.9,3.6
RSNC II 13 09 58 51.1–.84 6.80N 73.11W 150–6 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.4km az=38.4.
IDC Error ellipse: s-maj=16.0km s-min=7.6km az=131.0.
RSNC Error ellipse: s-maj=3.5km s-min=5.4km az=-1.0.
ISC II 13 15 56 41.3–.96 6.83N–.04 73.08W–.04 158–6 49 0-63
ISCJB II 13 15 56 40.9–.44 6.83N–.03 73.08W–.04 159–4 3.1b **¶17192161**
IDC II 13 15 56 41.7–1.1 6.90N 73.10W 154–49 3.4,3.3
FUNV II 13 15 56 42.3 6.79N 73.13W 160 3.2W,3.3
RSNC II 13 15 56 43.4–.83 6.79N 73.12W 145–4 3.0L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.8km az=38.0.
IDC Error ellipse: s-maj=120.2km s-min=8.1km az=133.0.
RSNC Error ellipse: s-maj=2.6km s-min=4.0km az=-1.0.
ISC II 15 00 49 17.5–1.2 6.70N–.03 73.68W–.04 4–10 37 0-150
IDC II 15 00 49 16.5–1.4 6.91N 73.85W 0 3.4,3.2 **¶17192270**
FUNV II 15 00 49 19.6 6.61N 73.83W 89 3.4W,3.2
RSNC II 15 00 49 20.0–.65 6.65N 73.54W 9–7 3.2L,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=36.3km s-min=17.7km az=131.0.
RSNC Error ellipse: s-maj=1.8km s-min=4.1km az=-1.0.
ISC II 15 10 18 19.2–.60 6.80N–.04 73.04W–.05 161–5 3.7b 65 0-149
ISCJB II 15 10 18 18.2–.28 6.81N–.03 73.05W–.04 166–3 3.7b **¶17192295**
IDC II 15 10 18 19.9–1.0 6.74N 72.86W 170–10 4.0,3.7
FUNV II 15 10 18 20.9 6.86N 73.04W 171 4.1W,3.7
RSNC II 15 10 18 21.1–.62 6.77N 73.16W 150–3 4.1L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.7km az=40.8.
IDC Error ellipse: s-maj=14.4km s-min=9.7km az=96.0.
RSNC Error ellipse: s-maj=2.3km s-min=3.5km az=-1.0.
ISC II 16 08 57 21.8–1.0 6.79N–.04 73.11W–.06 149–7 29 0-149
IDC II 16 08 57 09.8–1.6 6.60N 77.02W 0 3.8s,3.7 **¶602351409**
ISCJB II 16 08 57 22.2–.92 6.78N–.04 73.12W–.05 146–7 3.2b,3.7
RSNC II 16 08 57 22.7–.74 6.80N 73.11W 144–4 2.9L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=66.7km s-min=34.7km az=47.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.0km az=18.7.
RSNC Error ellipse: s-maj=2.3km s-min=3.5km az=-1.0.
ISC II 16 20 00 09.0–1.7 6.81N–.05 73.12W–.07 157–10 24 0-4
ISCJB II 16 20 00 09.3–.98 6.81N–.04 73.10W–.06 152–8 **¶602351420**
FUNV II 16 20 00 09.6 6.72N 73.16W 156 2.2W
RSNC II 16 20 00 11.6–.75 6.76N 73.16W 141–5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.4km az=25.1.
RSNC Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
ISC II 19 00 59 50.6–1.6 6.80N–.04 73.09W–.05 165–10 26 0-5
ISCJB II 19 00 59 50.6–.90 6.81N–.04 73.10W–.05 164–8 **¶601699853**
FUNV II 19 00 59 51.1 6.72N 73.15W 168 2.9W
RSNC II 19 00 59 53.9–.81 6.77N 73.16W 144–6 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.6km az=30.5.
RSNC Error ellipse: s-maj=2.6km s-min=4.5km az=-1.0.
ISC II 19 11 45 58.5–1.5 6.85N–.05 73.09W–.06 159–9 28 0-5
ISCJB II 19 11 45 59.2–.74 6.85N–.05 73.06W–.06 151–6 **¶601699856**
RSNC II 19 11 46 01.4–.76 6.81N 73.17W 142–5 2.5L
FUNV II 19 11 46 01.3 6.89N 73.07W 158 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.5km az=37.2.
RSNC Error ellipse: s-maj=2.9km s-min=5.9km az=-1.0.
ISC II 19 22 36 18.7–1.3 8.21N–.07 75.01W–.05 62–13 3.6b 31 2-149
ISCJB II 19 22 36 17.6–.81 8.21N–.05 75.02W–.04 73–10 3.5b **¶17192551**
RSNC II 19 22 36 18.2–.91 8.17N 74.99W 20–13 3.7L
IDC II 19 22 36 19.6–2.5 8.17N 75.02W 74–24 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.1km az=151.7.
RSNC Error ellipse: s-maj=7.1km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=13.4km az=119.0.
RSNC II 20 09 35 39.0–.39 6.81N 73.25W 134–6 1.2L
¶602351527
RSNC Error ellipse: s-maj=3.0km s-min=9.4km az=-1.0.
ISC II 20 21 52 15.7–1.5 6.86N–.04 73.05W–.05 161–9 31 0-6
ISCJB II 20 21 52 15.8–.69 6.84N–.04 73.04W–.05 160–7 **¶601699865**
FUNV II 20 21 52 17.5 6.94N 73.08W 185 3.0W
RSNC II 20 21 52 18.7–.93 6.82N 73.10W 141–7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.0km az=32.2.
RSNC Error ellipse: s-maj=3.1km s-min=5.2km az=-1.0.
ISC II 20 21 55 12.9–1.5 6.84N–.04 73.09W–.05 164–10 30 0-6
ISCJB II 20 21 55 13.4–.67 6.83N–.04 73.08W–.05 159–7 **¶601699866**
RSNC II 20 21 55 15.8–.96 6.82N 73.14W 144–6 3.4L
FUNV II 20 21 55 15.0 6.88N 73.11W 173 3.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.2km az=38.9.
RSNC Error ellipse: s-maj=3.3km s-min=5.0km az=-1.0.
ISC II 20 22 00 11.1–1.5 6.83N–.05 73.07W–.06 159–9 29 0-6
FUNV II 20 22 00 09.9 6.59N 73.27W 125 2.9W **¶601699867**
ISCJB II 20 22 00 11.0–.65 6.85N–.04 73.07W–.05 158–7 2.9W
RSNC II 20 22 00 13.2–.86 6.83N 73.12W 144–5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.3km az=33.0.
RSNC Error ellipse: s-maj=3.2km s-min=4.7km az=-1.0.
ISC II 20 22 00 58.5–1.4 6.85N–.04 73.06W–.05 156–9 30 0-6
FUNV II 20 22 00 57.0 6.62N 73.32W 116 3.4W **¶601699870**
ISCJB II 20 22 00 58.3–.68 6.84N–.04 73.07W–.05 157–6 3.4W
RSNC II 20 22 01 00.5–.98 6.82N 73.10W 144–6 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.3km az=34.3.
RSNC Error ellipse: s-maj=3.4km s-min=5.1km az=-1.0.
RSNC II 21 01 31 36.2–.76 6.83N 73.17W 143–7 1.6L
¶602351551
RSNC Error ellipse: s-maj=5.8km s-min=8.5km az=-1.0.
ISC II 21 03 12 54.3–.97 6.82N–.04 73.07W–.05 160–7 38 0-63
ISCJB II 21 03 12 53.6–.49 6.83N–.04 73.06W–.05 165–5 3.5b **¶17192616**
FUNV II 21 03 12 54.8 6.79N 73.11W 168 3.4W
IDC II 21 03 12 54.6–.89 6.99N 73.23W 142–93 3.8,3.5
RSNC II 21 03 12 57.1–.72 6.76N 73.18W 141–5 3.3L,3.5

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.6km az=36.3.
IDC Error ellipse: s-maj=213.0km s-min=7.9km az=133.0.
RSNC Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
ISC II 21 16 48 07.8–.90 6.84N–.05 73.09W–.06 155–6 30 0-150
ISCJB II 21 16 48 07.6–.62 6.82N–.04 73.09W–.05 159–5 3.2b **¶17192643**
IDC II 21 16 48 08.1–.79 6.81N 73.00W 163–11 3.6,3.4
RSNC II 21 16 48 09.5–.75 6.81N 73.11W 146–4 3.2L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.7km az=31.3.
IDC Error ellipse: s-maj=35.5km s-min=8.5km az=131.0.
RSNC Error ellipse: s-maj=2.7km s-min=4.0km az=-1.0.
ISC II 21 17 01 53.5–.66 6.80N–.04 73.05W–.04 158–5 4.0b 60 0-154
ISCJB II 21 17 01 52.9–.30 6.79N–.03 73.04W–.04 164–3 3.9b **¶17192644**
FUNV II 21 17 01 53.7 6.71N 73.12W 167 3.7W
IDC II 21 17 01 54.4–.65 6.77N 72.92W 165–6 4.2,3.9
RSNC II 21 17 01 56.0–1.1 6.77N 73.11W 141–7 4.0L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.9km az=38.8.
IDC Error ellipse: s-maj=13.3km s-min=7.7km az=134.0.
RSNC Error ellipse: s-maj=4.2km s-min=5.8km az=-1.0.
ISC II 21 20 32 38.4–1.4 6.83N–.04 73.06W–.05 162–9 34 0-6
ISCJB II 21 20 32 38.5–.65 6.84N–.04 73.07W–.04 161–6 **¶601699875**
FUNV II 21 20 32 40.5 6.82N 73.04W 165 2.9W
RSNC II 21 20 32 41.1–.86 6.82N 73.13W 143–6 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.4km az=37.7.
RSNC Error ellipse: s-maj=3.1km s-min=4.8km az=-1.0.
ISC II 22 18 44 31.3–1.2 7.49N–.03 72.23W–.04 12–11 24 0-4
FUNV II 22 18 44 31.4 7.45N 72.22W 5 2.6W **¶601699883**
ISCJB II 22 18 44 32.5–1.1 7.52N–.04 72.23W–.06 18–12 2.6W
RSNC II 22 18 44 35.5–1.0 7.47N 72.40W 11–9 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.4km az=25.2.
RSNC Error ellipse: s-maj=4.2km s-min=10.1km az=-1.0.
ISC II 22 20 49 49.9–.67 6.82N–.04 73.05W–.05 162–5 3.9b 65 0-154
ISCJB II 22 20 49 48.9–.31 6.82N–.03 73.03W–.04 167–3 3.9b **¶17192728**
IDC II 22 20 49 49.5–.62 6.74N 72.92W 160–6 4.2,4.0
FUNV II 22 20 49 50.4 6.80N 73.09W 172 4.1W,4.0
RSNC II 22 20 49 51.3–.84 6.80N 73.16W 152–5 4.2L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.1km az=32.7.
IDC Error ellipse: s-maj=15.4km s-min=7.1km az=133.0.
RSNC Error ellipse: s-maj=2.7km s-min=5.2km az=-1.0.
ISC II 22 23 10 04.7–1.5 6.84N–.04 73.10W–.06 167–9 34 0-6
ISCJB II 22 23 10 05.2–.66 6.83N–.04 73.06W–.06 162–6 **¶601699884**
RSNC II 22 23 10 07.8–1.0 6.79N 73.17W 147–7 3.4L
FUNV II 22 23 10 07.7 6.89N 73.08W 168 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.1km az=25.0.
RSNC Error ellipse: s-maj=3.2km s-min=6.8km az=-1.0.
ISC II 23 01 56 07.7–1.5 6.82N–.05 73.10W–.06 159–9 27 0-6
ISCJB II 23 01 56 07.9–.72 6.85N–.04 73.10W–.05 156–6 **¶601699885**
FUNV II 23 01 56 08.3 6.74N 73.17W 160 2.9W
RSNC II 23 01 56 10.6–.95 6.80N 73.18W 141–7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.7km az=33.9.
RSNC Error ellipse: s-maj=3.8km s-min=7.6km az=-1.0.
ISC II 23 17 32 02.8–2.7 7.14N–.09 72.1W–.10 111–33 17 1-4
ISCJB II 23 17 32 00.8–1.4 7.11N–.09 72.14W–.09 132–16 **¶601699888**
FUNV II 23 17 32 00.7 6.86N 72.22W 95 2.6W
RSNC II 23 17 32 01.9–.95 7.21N 72.31W 134–16 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=6.5km az=44.4.
RSNC Error ellipse: s-maj=8.1km s-min=10.9km az=-1.0.
ISC II 25 05 31 43.0–1.5 6.81N–.05 73.09W–.05 169–10 30 0-5
ISCJB II 25 05 31 43.3–.74 6.80N–.05 73.05W–.05 167–7 **¶601699890**
FUNV II 25 05 31 43.5 6.75N 73.24W 172 3.5W
RSNC II 25 05 31 47.6–.65 6.76N 73.19W 137–6 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.4km az=137.0.
RSNC Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISC II 25 14 29 50.5–.95 6.86N–.04 73.05W–.05 159–7 38 0-150
ISCJB II 25 14 29 49.8–.55 6.87N–.04 73.07W–.05 164–5 2.9b **¶17192840**
FUNV II 25 14 29 49.3 6.73N 73.18W 170 3.0W
IDC II 25 14 29 51.4–.79 6.73N 72.88W 165–10 3.4,3.1
RSNC II 25 14 29 52.9–.77 6.82N 73.15W 141–5 3.2L,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.5km az=32.8.
IDC Error ellipse: s-maj=57.6km s-min=8.0km az=131.0.
RSNC Error ellipse: s-maj=2.8km s-min=4.1km az=-1.0.
ISC II 25 15 10 37.5–.78 6.86N–.04 73.09W–.05 157–6 3.5b 49 0-150
ISCJB II 25 15 10 36.5–.39 6.84N–.04 73.07W–.04 164–4 3.5b **¶17192844**
FUNV II 25 15 10 37.2 6.85N 73.25W 161 3.4W
IDC II 25 15 10 37.2–.80 6.70N 72.88W 169–9 3.8,3.6
RSNC II 25 15 10 39.3–.97 6.81N 73.13W 144–6 3.5L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.0km az=37.7.
IDC Error ellipse: s-maj=32.3km s-min=7.9km az=131.0.
RSNC Error ellipse: s-maj=3.4km s-min=6.0km az=-1.0.
ISC II 26 03 23 51.4–.73 6.84N–.04 73.07W–.05 156–6 3.7b 53 0-150
ISCJB II 26 03 23 50.5–.35 6.83N–.04 73.06W–.04 161–4 3.6b **¶17192876**
IDC II 26 03 23 51.7–.73 6.82N 72.95W 158–9 3.9,3.7
FUNV II 26 03 23 52.4 6.87N 73.10W 171 3.7W,3.7
RSNC II 26 03 23 53.5–.66 6.80N 73.17W 140–5 3.6L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.1km az=37.2.
IDC Error ellipse: s-maj=28.2km s-min=8.1km az=130.0.
RSNC Error ellipse: s-maj=2.0km s-min=4.3km az=-1.0.
ISC II 27 08 27 29.2–.77 6.84N–.04 73.07W–.05 154–6 3.3b 49 0-150
ISCJB II 27 08 27 28.2–.35 6.82N–.04 73.06W–.04 157–4 3.3b **¶17192942**
IDC II 27 08 27 28.6–.77 6.69N 72.90W 158–10 3.7,3.5
RSNC II 27 08 27 31.3–.63 6.79N 73.18W 139–5 3.5L,3.5
FUNV II 27 08 27 31.2 6.88N 73.09W 142 3.4W,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.0km az=41.5.
IDC Error ellipse: s-maj=31.7km s-min=7.4km az=131.0.
RSNC Error ellipse: s-maj=2.0km s-min=3.5km az=-1.0.
ISC II 28 02 41 06.4–.87 6.91N–.04 73.01W–.06 152–7 52 0-150
ISCJB II 28 02 41 05.5–.43 6.80N–.04 73.05W–.05 166–5 3.6b **¶17192975**
IDC II 28 02 41 06.5–.74 6.76N 72.98W 165–10 4.0,3.7
RSNC II 28 02 41 08.1–1.1 6.81N 73.13W 144–7 3.5L,3.7
FUNV II 28 02 41 11.9 7.04N 72.89W 130 3.4W,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.5km az=34.7.
IDC Error ellipse: s-maj=40.1km s-min=7.9km az=130.0.
RSNC Error ellipse: s-maj=3.7km s-min=7.9km az=-1.0.
ISC III 01 11 33 41.9–.74 6.85N–.04 73.03W–.04 156–6 3.5b 56 0-150
ISCJB III 01 11 33 41.1–.33 6.83N–.03 73.09W–.04 160–4 3.5b **¶17193068**
IDC III 01 11 33 42.0–.69 6.78N 73.03W 154–9 3.8,3.7
RSNC III 01 11 33 43.8–.80 6.82N 73.18W 142–5 3.9L,3.7
FUNV III 01 11 33 45.3 7.05N 72.78W 2 3.5W,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.0km az=38.1.
IDC Error ellipse: s-maj=28.0km s-min=7.6km az=130.0.
RSNC Error ellipse: s-maj=2.3km s-min=4.3km az=-1.0.
ISC III 01 17 44 49.5–1.8 9.54N–.05 73.5W–.10 19 16 1-5
ISCJB III 01 17 44 48.8–1.4 9.60N–.05 73.63W–.09 19 **¶601699904**
RSNC III 01 17 44 49.7–.65 9.51N 73.65W 0–15 2.7L
FUNV III 01 17 44 52.9 9.68N 73.63W 35 2.6W
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.5km az=17.4.
RSNC Error ellipse: s-maj=11.6km s-min=19.3km az=-1.0.
ISC III 03 09 47 44.6–2.3 9.86N–.07 73.12W–.09 144–16 26 1-5
ISCJB III 03 09 47 45.9–1.1 9.84N–.05 73.02W–.06 135–10 **¶601699911**
FUNV III 03 09 47 46.3 9.89N 73.20W 135 2.9W
RSNC III 03 09 47 49.2–1.1 9.74N 73.03W 122–35 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.5km az=40.0.
RSNC Error ellipse: s-maj=23.8km s-min=12.7km az=-1.0.
ISC III 03 13 11 46.0–.90 6.14N–.04 73.29W–.04 156–6 43 0-150
FUNV III 03 13 11 45.9 5.97N 73.27W 174 3.1W **¶17193189**
ISCJB III 03 13 11 45.5–.54 6.16N–.03 73.29W–.04 156–6 3.6b
IDC III 03 13 11 46.5–.86 6.08N 73.21W 156–7 4.0,3.8
RSNC III 03 13 11 47.8–1.1 6.13N 73.36W 143–7 3.6L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.1km az=36.2.
IDC Error ellipse: s-maj=53.3km s-min=9.0km az=132.0.
RSNC Error ellipse: s-maj=3.2km s-min=5.6km az=-1.0.
ISC III 05 16 28 21.8–1.3 6.82N–.04 73.09W–.05 168–8 46 0-5
ISCJB III 05 16 28 22.1–.55 6.83N–.03 73.07W–.04 163–6 **¶601699920**
FUNV III 05 16 28 22.3 6.68N 73.18W 166 3.6W
RSNC III 05 16 28 25.1–.98 6.80N 73.18W 142–6 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.4km az=35.9.
RSNC Error ellipse: s-maj=3.0km s-min=5.0km az=-1.0.
ISC III 06 16 25 12.9–1.6 6.69N–.04 71.99W–.05 70–31 22 1-5
ISCJB III 06 16 25 11.9–.82 6.68N–.03 71.95W–.04 94–15 **¶601699923**
FUNV III 06 16 25 11.8 6.63N 72.01W 17 2.9W
RSNC III 06 16 25 14.1–.91 6.68N 72.11W 8–8 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.5km az=22.2.
RSNC Error ellipse: s-maj=2.8km s-min=5.9km az=-1.0.
ISC III 07 05 11 53.9–1.6 10.08N–.06 73.12W–.05 141–14 30 1-5
ISCJB III 07 05 11 55.3–.84 10.04N–.05 73.01W–.05 131–9 **¶601699926**
RSNC III 07 05 11 56.9–.60 10.10N 73.25W 100–39 2.5L
FUNV III 07 05 11 57.2 10.05N 73.08W 131 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.1km az=44.2.
RSNC Error ellipse: s-maj=13.3km s-min=6.5km az=-1.0.
ISC III 07 08 27 13.3–.95 6.83N–.04 73.04W–.05 161–7 42 0-63
ISCJB III 07 08 27 12.8–.46 6.81N–.04 73.03W–.05 165–5 3.3b **¶17193403**
IDC III 07 08 27 13.7–1.5 6.80N 73.01W 162–40 3.5,3.3
FUNV III 07 08 27 14.6 6.84N 73.08W 169 3.2W,3.3
RSNC III 07 08 27 15.3–1.0 6.81N 73.08W 145–7 3.1L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.2km az=39.5.
IDC Error ellipse: s-maj=112.9km s-min=8.0km az=133.0.
RSNC Error ellipse: s-maj=3.6km s-min=5.3km az=-1.0.
ISC III 07 17 35 15.6–.93 6.81N–.04 73.07W–.06 157–7 30 0-150
IDC III 07 17 35 15.5–.86 6.70N 72.90W 167–12 3.7,3.6 **¶17193425**
ISCJB III 07 17 35 15.2–.62 6.82N–.04 73.05W–.06 161–5 3.4b,3.6
RSNC III 07 17 35 17.1–.79 6.82N 73.12W 146–5 3.5L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=41.1km s-min=7.7km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.4km az=23.4.
RSNC Error ellipse: s-maj=2.5km s-min=5.8km az=-1.0.
ISC III 08 20 13 20.1–.94 6.83N–.04 73.10W–.05 163–7 47 0-150
ISCJB III 08 20 13 19.6–.45 6.82N–.04 73.07W–.04 169–5 2.9b **¶17193491**
FUNV III 08 20 13 21.4 6.82N 73.13W 173 3.6W
IDC III 08 20 13 21.9–4.2 6.79N 73.17W 172–29 3.6,3.3
RSNC III 08 20 13 24.0–1.0 6.77N 73.18W 133–8 3.6L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=3.8km az=37.6.
IDC Error ellipse: s-maj=80.2km s-min=39.5km az=92.0.
RSNC Error ellipse: s-maj=3.5km s-min=5.6km az=-1.0.
RSNC III 09 08 57 01.3–1.0 6.74N 73.06W 144–10 1.7L
¶602351933
RSNC Error ellipse: s-maj=5.5km s-min=13.0km az=-1.0.
ISC III 09 10 03 57.9–1.6 6.85N–.05 73.07W–.06 164–11 37 0-8
ISCJB III 09 10 03 58.4–.55 6.84N–.04 73.03W–.05 161–6 **¶601699936**
FUNV III 09 10 04 00.0 6.88N 73.15W 161 3.5W
RSNC III 09 10 04 01.8–1.2 6.78N 73.15W 137–8 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.3km az=42.1.
RSNC Error ellipse: s-maj=4.4km s-min=7.5km az=-1.0.
ISC III 09 15 28 46.3–1.5 6.83N–.05 73.08W–.05 158–10 26 0-5
ISCJB III 09 15 28 46.6–.78 6.85N–.04 73.07W–.05 155–8 **¶601699937**
FUNV III 09 15 28 47.0 6.72N 73.09W 161 2.4W
RSNC III 09 15 28 49.4–.98 6.84N 73.14W 133–7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.0km az=41.5.
RSNC Error ellipse: s-maj=4.1km s-min=6.2km az=-1.0.
ISC III 10 09 23 15.2–1.0 8.86N–.04 73.90W–.06 35 3.8b 48 1-151
ISCJB III 10 09 23 16.3–.62 8.82N–.03 73.89W–.05 33 3.7b **¶17193612**
RSNC III 10 09 23 19.2–.67 8.75N 73.95W 46–18 3.9L
IDC III 10 09 23 19.6–1.7 8.73N 73.83W 121–19 3.8,3.6
FUNV III 10 09 23 22.9 8.84N 73.64W 36 3.5W,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.5km az=29.4.
RSNC Error ellipse: s-maj=5.5km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=21.5km s-min=10.7km az=127.0.
ISC III 10 10 56 24.2–.83 6.82N–.05 73.12W–.06 154–6 3.6b 25 0-154
ISCJB III 10 10 56 23.9–.58 6.87N–.05 73.14W–.06 160–5 3.5b **¶17193616**
IDC III 10 10 56 24.1–.69 6.73N 72.94W 159–8 3.7,3.5
RSNC III 10 10 56 26.6–1.1 6.82N 73.19W 135–9 3.2L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=6.5km az=33.6.
IDC Error ellipse: s-maj=32.7km s-min=7.4km az=131.0.
RSNC Error ellipse: s-maj=4.9km s-min=7.5km az=-1.0.
ISC III 10 16 49 25.8–1.5 6.78N–.04 73.07W–.05 156–10 28 0-5
ISCJB III 10 16 49 25.7–.76 6.79N–.04 73.08W–.05 159–8 **¶601699944**
FUNV III 10 16 49 26.5 6.74N 73.12W 168 2.5W
RSNC III 10 16 49 29.2–.90 6.78N 73.16W 131–7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.8km az=34.6.
RSNC Error ellipse: s-maj=3.5km s-min=6.4km az=-1.0.
ISC III 11 08 36 03.6–1.5 6.82N–.05 73.07W–.06 171–10 30 0-6
ISCJB III 11 08 36 04.3–.61 6.82N–.05 73.06W–.06 166–6 **¶601699948**
RSNC III 11 08 36 07.2–.92 6.80N 73.13W 145–7 3.0L
FUNV III 11 08 36 07.6 6.98N 73.00W 174 3.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.4km az=41.1.
RSNC Error ellipse: s-maj=4.0km s-min=6.3km az=-1.0.
ISC III 12 07 51 32.8–1.4 6.83N–.04 73.10W–.05 170–10 33 1-6
ISCJB III 12 07 51 33.2–.61 6.84N–.04 73.12W–.04 166–7 **¶601699955**
FUNV III 12 07 51 35.1 6.84N 73.14W 173 3.0W
RSNC III 12 07 51 37.3–.52 6.80N 73.18W 131–6 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.7km az=39.2.
RSNC Error ellipse: s-maj=2.1km s-min=3.8km az=-1.0.
ISC III 14 13 49 27.5–.83 6.83N–.04 73.10W–.05 157–6 3.4b 49 0-150
ISCJB III 14 13 49 26.9–.39 6.84N–.03 73.10W–.04 159–4 3.3b **¶17195168**
FUNV III 14 13 49 27.6 6.77N 73.20W 160 3.4W
IDC III 14 13 49 27.1–.75 6.74N 72.99W 157–10 3.7,3.6
RSNC III 14 13 49 29.2–.84 6.80N 73.15W 147–6 3.3L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.6km az=38.2.
IDC Error ellipse: s-maj=32.8km s-min=7.8km az=131.0.
RSNC Error ellipse: s-maj=3.2km s-min=4.5km az=-1.0.
ISC III 15 05 33 51.9–1.4 6.82N–.04 73.07W–.05 161–10 48 0-7
FUNV III 15 05 33 51.1 6.69N 73.27W 166 3.5W **¶601699967**
ISCJB III 15 05 33 51.5–.46 6.83N–.03 73.05W–.04 163–5 3.5W
RSNC III 15 05 33 54.1–.77 6.79N 73.10W 148–5 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.4km az=37.5.
RSNC Error ellipse: s-maj=2.8km s-min=4.2km az=-1.0.
ISC III 15 13 45 45.3–.92 6.92N–.04 76.28W–.04 10 28 1-5
ISCJB III 15 13 45 44.7–.46 6.93N–.04 76.29W–.04 10 **¶602352077**
RSNC III 15 13 45 46.0–.91 6.94N 76.21W 2–8 3.9L
CASC III 15 13 46 32.3–6.1 8.45N 79.64W 13–188 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=39.4.
RSNC Error ellipse: s-maj=4.0km s-min=9.3km az=-1.0.
CASC Error ellipse: s-maj=55.9km s-min=222.1km az=-1.0.
ISC III 16 03 04 32.3–1.4 6.80N–.04 73.07W–.05 164–8 35 0-5
FUNV III 16 03 04 32.2 6.76N 73.11W 180 2.5W **¶601699977**
ISCJB III 16 03 04 32.6–.66 6.80N–.04 73.06W–.05 159–6 2.5W
RSNC III 16 03 04 34.6–.67 6.77N 73.09W 150–3 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.2km az=42.3.
RSNC Error ellipse: s-maj=3.0km s-min=4.4km az=-1.0.
ISC III 16 08 38 52.7–.69 6.82N–.04 73.06W–.04 157–5 3.5b 58 0-150
ISCJB III 16 08 38 51.8–.32 6.83N–.03 73.07W–.04 161–3 3.6b **¶17196407**
FUNV III 16 08 38 52.6 6.74N 73.10W 168 3.0W
IDC III 16 08 38 52.9–.69 6.83N 73.06W 157–7 4.0,3.8
RSNC III 16 08 38 54.1–.94 6.79N 73.09W 148–5 3.7L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.6km az=36.3.
IDC Error ellipse: s-maj=16.8km s-min=7.9km az=134.0.
RSNC Error ellipse: s-maj=3.0km s-min=4.6km az=-1.0.
ISC III 17 03 32 41.4–1.4 6.85N–.04 73.13W–.05 162–8 39 0-6
ISCJB III 17 03 32 41.9–.56 6.84N–.04 73.10W–.05 156–5 **¶601699988**
FUNV III 17 03 32 42.7 6.82N 73.20W 159 2.6W
RSNC III 17 03 32 44.1–.82 6.81N 73.15W 145–5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.3km az=33.8.
RSNC Error ellipse: s-maj=2.9km s-min=5.3km az=-1.0.
ISC III 17 05 47 04.8–.77 6.82N–.04 73.09W–.05 158–6 3.3b 65 0-150
ISCJB III 17 05 47 04.0–.33 6.84N–.03 73.08W–.04 162–3 3.5b **¶17196625**
FUNV III 17 05 47 04.5 6.73N 73.15W 167 3.7W
IDC III 17 05 47 05.2–.78 6.67N 72.81W 171–8 4.0,3.6
RSNC III 17 05 47 06.2–.77 6.79N 73.15W 149–4 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.4km az=40.6.
IDC Error ellipse: s-maj=31.2km s-min=7.4km az=132.0.
RSNC Error ellipse: s-maj=2.6km s-min=3.9km az=-1.0.
ISC III 17 07 14 09.2–1.5 6.79N–.05 73.07W–.06 164–10 27 0-5
ISCJB III 17 07 14 09.1–.78 6.81N–.05 73.07W–.05 163–7 **¶601699989**
FUNV III 17 07 14 10.3 6.75N 73.11W 167 2.5W
RSNC III 17 07 14 11.7–.54 6.78N 73.12W 147–4 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.0km az=38.0.
RSNC Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISC III 18 19 50 15.3–1.5 6.83N–.04 73.09W–.05 161–8 33 0-6
ISCJB III 18 19 50 15.6–.67 6.85N–.04 73.09W–.05 155–6 **¶601699994**
FUNV III 18 19 50 15.9 6.77N 73.19W 158 2.5W
RSNC III 18 19 50 17.9–.83 6.79N 73.14W 144–5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.8km az=34.8.
RSNC Error ellipse: s-maj=2.9km s-min=4.7km az=-1.0.
ISC III 18 21 45 19.5–1.6 8.72N–.06 73.59W–.08 100–14 22 1-4
ISCJB III 18 21 45 19.4–.92 8.71N–.05 73.57W–.07 101–10 **¶601699995**
FUNV III 18 21 45 20.5 8.76N 73.50W 10 2.4W
RSNC III 18 21 45 21.7–.55 8.65N 73.64W 92–5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.8km az=31.7.
RSNC Error ellipse: s-maj=5.1km s-min=6.0km az=-1.0.
ISC III 19 07 41 38.5–1.4 7.45N–.04 73.16W–.05 140–9 36 1-6
ISCJB III 19 07 41 38.1–.56 7.45N–.03 73.16W–.05 139–6 **¶601699999**
FUNV III 19 07 41 39.7 7.41N 73.19W 142 3.1W
RSNC III 19 07 41 40.2–.68 7.41N 73.16W 130–4 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.3km az=28.8.
RSNC Error ellipse: s-maj=2.6km s-min=4.5km az=-1.0.
RSNC III 20 00 15 29.5–.84 6.81N 73.16W 135–8 1.8L
¶602352185
RSNC Error ellipse: s-maj=3.8km s-min=8.3km az=-1.0.
ISC III 21 14 36 31.3–.82 6.85N–.04 73.07W–.04 154–6 3.1b 53 0-150
ISCJB III 21 14 36 30.7–.38 6.87N–.03 73.09W–.03 154–4 3.2b **¶17197683**
IDC III 21 14 36 31.7–.73 6.72N 72.94W 160–9 3.6,3.4
FUNV III 21 14 36 32.6 6.83N 73.10W 164 2.6W,3.4
RSNC III 21 14 36 33.4–.98 6.81N 73.16W 139–6 3.6L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.6km az=43.4.
IDC Error ellipse: s-maj=30.9km s-min=7.5km az=131.0.
RSNC Error ellipse: s-maj=3.4km s-min=4.3km az=-1.0.
ISC III 23 00 34 22.2–.77 6.83N–.04 73.09W–.05 161–6 3.2b 53 0-150
ISCJB III 23 00 34 21.2–.35 6.84N–.03 73.09W–.03 163–3 3.4b **¶17198101**
IDC III 23 00 34 22.6–.70 6.82N 73.02W 162–10 3.7,3.5
FUNV III 23 00 34 22.4 6.76N 73.11W 169 3.5W,3.5
RSNC III 23 00 34 24.2–.84 6.80N 73.16W 146–5 3.5L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.6km az=40.1.
IDC Error ellipse: s-maj=28.4km s-min=7.7km az=133.0.
RSNC Error ellipse: s-maj=2.8km s-min=4.1km az=-1.0.
ISC III 23 07 12 50.5–1.5 6.82N–.05 73.10W–.06 167–10 28 0-6
ISCJB III 23 07 12 50.7–.77 6.83N–.04 73.08W–.06 168–7 **¶601700010**
FUNV III 23 07 12 52.6 6.80N 73.10W 169 2.8W
RSNC III 23 07 12 54.7–.69 6.79N 73.20W 135–6 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.0km az=26.5.
RSNC Error ellipse: s-maj=2.6km s-min=4.9km az=-1.0.
ISC III 23 09 35 60.0–1.4 6.83N–.05 73.04W–.06 162–9 29 0-6
ISCJB III 23 09 36 00.6–.67 6.86N–.05 73.04W–.05 150–7 **¶601700011**
FUNV III 23 09 36 02.8 6.87N 73.05W 160 2.6W
RSNC III 23 09 36 03.7–.96 6.80N 73.13W 136–7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=4.9km az=42.7.
RSNC Error ellipse: s-maj=4.5km s-min=6.4km az=-1.0.
ISC III 24 15 45 27.8–1.5 6.87N–.05 73.12W–.06 169–9 37 0-8
ISCJB III 24 15 45 28.5–.59 6.82N–.04 73.08W–.06 161–6 **¶601700017**
RSNC III 24 15 45 31.5–1.1 6.79N 73.12W 143–7 3.2L
FUNV III 24 15 45 31.2 7.00N 73.13W 171 3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=4.4km az=35.6.
RSNC Error ellipse: s-maj=4.8km s-min=7.4km az=-1.0.
ISC III 25 06 51 53.9–.87 6.88N–.04 73.10W–.05 162–6 53 0-150
IDC III 25 06 51 53.9–.80 7.02N 73.20W 154–13 3.3,3.2 **¶17198464**
ISCJB III 25 06 51 53.5–.42 6.89N–.03 73.10W–.04 167–4 3.0b,3.2
FUNV III 25 06 51 55.2 6.82N 73.14W 164 3.1W,3.2
RSNC III 25 06 51 56.5–.73 6.84N 73.12W 144–6 3.3L,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=34.3km s-min=8.0km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.5km az=37.4.
RSNC Error ellipse: s-maj=2.7km s-min=4.5km az=-1.0.
ISC III 25 11 12 55.2–1.5 6.82N–.04 73.10W–.05 166–10 32 0-5
FUNV III 25 11 12 55.8 6.70N 73.11W 165 2.6W **¶601700020**
ISCJB III 25 11 12 55.7–.68 6.84N–.03 73.10W–.05 155–7 2.6W
RSNC III 25 11 12 58.5–1.2 6.78N 73.19W 143–8 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.3km az=28.5.
RSNC Error ellipse: s-maj=4.0km s-min=7.0km az=-1.0.

ISC III 26 03 47 17.9–1.5 6.83N–.04 73.10W–.06 169–9 35 0-6
ISCJB III 26 03 47 18.0–.67 6.83N–.04 73.11W–.06 166–6 **¶601700024**
RSNC III 26 03 47 20.9–.62 6.79N 73.15W 149–4 2.6L
FUNV III 26 03 47 20.1 6.80N 73.05W 168 2.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.4km az=26.5.
RSNC Error ellipse: s-maj=2.5km s-min=3.9km az=-1.0.
ISC III 27 06 29 50.0–1.2 6.68N–.03 71.91W–.03 15–10 41 1-7
ISCJB III 27 06 29 49.2–1.4 6.60N–.04 71.86W–.03 11–11 **¶601700026**
FUNV III 27 06 29 50.9 6.62N 72.02W 14 3.6W
RSNC III 27 06 29 52.4–1.0 6.72N 72.00W 4–7 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=155.4.
RSNC Error ellipse: s-maj=2.9km s-min=6.7km az=-1.0.
ISC III 27 14 05 46.7–.72 7.21N–.03 73.74W–.05 99–5 3.8b 67 0-153
ISCJB III 27 14 05 46.7–.32 7.24N–.03 73.74W–.04 108–3 3.6b **¶17198797**
FUNV III 27 14 05 47.7 7.07N 73.79W 113 3.6W
RSNC III 27 14 05 48.8–.94 7.24N 73.74W 90–6 3.9L
IDC III 27 14 05 48.4–1.2 7.09N 73.61W 114–12 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.4km az=34.3.
RSNC Error ellipse: s-maj=3.5km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=8.3km az=126.0.
ISC III 28 01 24 06.6–.49 6.81N–.03 73.07W–.04 161–4 3.8b 88 0-154
ISCJB III 28 01 24 05.7–.25 6.82N–.03 73.08W–.03 165–2 3.8b **¶17198880**
IDC III 28 01 24 06.2–.52 6.75N 72.92W 156–5 4.1,3.8
FUNV III 28 01 24 06.9 6.76N 73.12W 172 3.7W,3.8
RSNC III 28 01 24 08.2–.93 6.80N 73.15W 152–5 4.2L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.4km az=36.2.
IDC Error ellipse: s-maj=12.1km s-min=8.4km az=106.0.
RSNC Error ellipse: s-maj=3.0km s-min=4.5km az=-1.0.
ISC III 29 09 30 03.0–1.4 6.83N–.04 73.09W–.05 157–8 48 0-8
ISCJB III 29 09 30 03.2–.47 6.83N–.04 73.09W–.04 153–5 **¶601700035**
FUNV III 29 09 30 04.5 6.81N 73.13W 166 3.4W
RSNC III 29 09 30 06.0–1.0 6.78N 73.14W 139–5 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=40.1.
RSNC Error ellipse: s-maj=3.5km s-min=4.8km az=-1.0.
ISC III 30 01 26 44.8–1.4 6.83N–.04 73.09W–.05 166–8 39 0-6
ISCJB III 30 01 26 45.6–.56 6.81N–.04 73.06W–.05 157–5 **¶601700039**
FUNV III 30 01 26 46.9 6.85N 73.11W 169 3.0W
RSNC III 30 01 26 48.3–1.2 6.76N 73.13W 144–7 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.4km az=36.2.
RSNC Error ellipse: s-maj=4.4km s-min=6.2km az=-1.0.
ISC III 31 11 21 14.5–.96 6.84N–.04 73.08W–.05 157–7 43 0-63
IDC III 31 11 21 02.1–4.0 7.87N 72.77W 0 3.7,3.4 **¶17199291**
ISCJB III 31 11 21 13.7–.43 6.82N–.04 73.06W–.04 161–4 3.0b,3.4
FUNV III 31 11 21 15.6 6.83N 73.09W 167 2.9W,3.4
RSNC III 31 11 21 16.6–.72 6.81N 73.13W 141–6 3.1L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=109.5km s-min=34.2km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.9km az=42.4.
RSNC Error ellipse: s-maj=3.4km s-min=4.8km az=-1.0.
ISC III 31 18 47 12.5–1.5 6.83N–.06 73.11W–.07 161–9 30 0-6
ISCJB III 31 18 47 13.0–.69 6.80N–.06 73.07W–.07 156–6 **¶601700047**
RSNC III 31 18 47 14.8–1.0 6.79N 73.10W 146–7 2.9L
FUNV III 31 18 47 15.1 6.86N 73.11W 161 2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=5.4km az=41.9.
RSNC Error ellipse: s-maj=5.6km s-min=8.0km az=-1.0.
ISC IV 01 01 07 07.9–1.4 6.83N–.05 73.07W–.06 160–8 32 0-5
ISCJB IV 01 01 07 08.0–.69 6.84N–.04 73.07W–.05 156–6 **¶601700052**
FUNV IV 01 01 07 09.7 6.84N 73.05W 168 2.6W
RSNC IV 01 01 07 10.3–.89 6.79N 73.10W 145–5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.9km az=35.2.
RSNC Error ellipse: s-maj=3.8km s-min=5.9km az=-1.0.
ISC IV 01 16 27 43.4–.42 6.82N–.03 72.96W–.03 165–3 4.5b 529 0-154
ISCJB IV 01 16 27 42.2–.17 6.75N–.02 72.97W–.02 165–1 4.5b **¶16403917**
NEIC IV 01 16 27 43.6–.53 6.67N 72.93W 167–5 4.6b
IDC IV 01 16 27 43.5–.41 6.73N 72.95W 163–3 4.5,4.2
FUNV IV 01 16 27 44.7 6.85N 73.07W 172 3.7W,4.2
BJI IV 01 16 27 44.0 6.70N 73.00W 177 3.7W,4.2
RSNC IV 01 16 27 45.1–1.0 6.76N 73.16W 151–5 4.6L,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=142.5.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=71.0. Felt at Los Santos.
IDC Error ellipse: s-maj=8.9km s-min=6.6km az=119.0.
RSNC Error ellipse: s-maj=3.3km s-min=4.7km az=-1.0.
ISC IV 02 17 30 07.1–.45 6.81N–.03 73.05W–.04 155–4 4.9b 874 0-179
ISCJB IV 02 17 30 06.2–.17 6.80N–.02 73.01W–.02 161–1 4.9b **¶16633234**
NEIC IV 02 17 30 06.7–.30 6.78N 72.96W 151–2 4.9b
IDC IV 02 17 30 06.9–.49 6.75N 72.94W 153–4 4.7,4.5
RSNC IV 02 17 30 08.6–1.0 6.81N 73.15W 149–5 4.9L,4.5
FUNV IV 02 17 30 08.4 6.87N 73.09W 171 4.4W,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=137.7.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=46.0. Felt [II] at Bogota. Also felt at Barichara and Medellin. Felt at San Cristobal, Venezuela.
IDC Error ellipse: s-maj=9.2km s-min=7.1km az=119.0.
RSNC Error ellipse: s-maj=3.1km s-min=4.5km az=-1.0.
ISC IV 03 10 03 13.7–1.3 6.83N–.04 73.09W–.04 158–7 45 0-6
ISCJB IV 03 10 03 13.7–.52 6.84N–.03 73.08W–.04 154–5 **¶601700063**
FUNV IV 03 10 03 15.2 6.81N 73.08W 167 2.9W
RSNC IV 03 10 03 16.2–.82 6.80N 73.13W 142–4 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.8km az=37.1.
RSNC Error ellipse: s-maj=2.7km s-min=4.2km az=-1.0.
ISC IV 03 19 13 14.8–1.4 6.81N–.04 73.05W–.05 156–8 34 0-5
ISCJB IV 03 19 13 14.6–.67 6.82N–.04 73.04W–.05 156–6 **¶601700064**
FUNV IV 03 19 13 14.8 6.73N 73.09W 165 2.8W
RSNC IV 03 19 13 17.3–.87 6.78N 73.11W 139–6 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.5km az=34.3.
RSNC Error ellipse: s-maj=3.0km s-min=4.7km az=-1.0.
ISC IV 04 03 45 46.7–.80 6.82N–.04 73.09W–.05 154–6 3.5b 59 0-150
ISCJB IV 04 03 45 45.8–.34 6.82N–.03 73.07W–.04 157–3 3.4b **¶17199734**
FUNV IV 04 03 45 47.5 6.83N 73.11W 168 3.6W
IDC IV 04 03 45 47.6–4.2 6.70N 73.13W 162–35 3.7,3.5
RSNC IV 04 03 45 48.7–.89 6.78N 73.13W 140–5 3.5L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.5km az=39.5.
IDC Error ellipse: s-maj=75.1km s-min=37.4km az=87.0.
RSNC Error ellipse: s-maj=2.7km s-min=4.1km az=-1.0.
ISC IV 04 20 56 16.7–.82 6.82N–.04 73.04W–.04 161–6 3.2b 55 0-150
ISCJB IV 04 20 56 16.1–.39 6.82N–.03 73.05W–.04 161–4 3.3b **¶17199809**
FUNV IV 04 20 56 17.7 6.83N 73.14W 171 3.5W
IDC IV 04 20 56 17.1–.77 6.77N 73.00W 163–11 3.8,3.6
RSNC IV 04 20 56 18.7–.81 6.77N 73.09W 148–5 3.5L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.3km az=41.0.
IDC Error ellipse: s-maj=36.7km s-min=8.2km az=131.0.
RSNC Error ellipse: s-maj=3.4km s-min=4.3km az=-1.0.
ISC IV 04 21 23 56.5–1.5 6.81N–.04 73.05W–.05 155–10 28 0-5
ISCJB IV 04 21 23 57.0–.76 6.81N–.04 73.09W–.05 147–7 **¶601700068**
FUNV IV 04 21 23 57.6 6.37N 72.48W 1 2.9W
RSNC IV 04 21 23 59.2–.74 6.79N 73.14W 139–6 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.5km az=35.8.
RSNC Error ellipse: s-maj=3.6km s-min=4.5km az=-1.0.
ISC IV 05 04 31 10.8–.95 6.88N–.04 73.11W–.05 154–6 52 0-63
ISCJB IV 05 04 31 09.9–.40 6.88N–.03 73.10W–.04 157–4 2.9b **¶17199847**
FUNV IV 05 04 31 10.0 6.76N 73.25W 160 3.6W
IDC IV 05 04 31 11.3–7.5 6.82N 72.92W 165–149 3.2,3.1
RSNC IV 05 04 31 12.2–.68 6.83N 73.17W 146–3 3.3L,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.8km az=37.8.
IDC Error ellipse: s-maj=195.1km s-min=77.6km az=172.0.
RSNC Error ellipse: s-maj=2.8km s-min=3.7km az=-1.0.
ISC IV 05 13 05 33.0–1.1 9.10N–.07 74.30W–.04 72–12 3.7b 29 1-74
ISCJB IV 05 13 05 32.4–.64 9.06N–.05 74.31W–.04 85–8 3.6b **¶17199895**
RSNC IV 05 13 05 34.5–.66 8.98N 74.31W 24–8 3.9L
IDC IV 05 13 05 35.9–2.2 9.11N 74.16W 99–22 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.0km az=10.4.
RSNC Error ellipse: s-maj=5.5km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=14.1km az=145.0.
ISC IV 07 11 30 24.0–.95 6.89N–.04 73.11W–.04 163–7 40 0-150
ISCJB IV 07 11 30 23.9–.56 6.86N–.04 73.11W–.04 160–5 3.3b **¶17200102**
IDC IV 07 11 30 24.3–.80 6.81N 73.08W 157–13 3.4s,3.4
RSNC IV 07 11 30 26.4–.98 6.82N 73.13W 147–7 3.3L,3.4
FUNV IV 07 11 30 26.9 7.06N 73.17W 164 2.9W,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.4km az=41.9.
IDC Error ellipse: s-maj=49.1km s-min=7.9km az=131.0.
RSNC Error ellipse: s-maj=3.7km s-min=4.4km az=-1.0.
ISC IV 07 21 33 30.4–1.4 6.79N–.05 73.06W–.05 166–8 38 0-6
ISCJB IV 07 21 33 31.4–.62 6.76N–.04 73.06W–.05 156–5 **¶601700080**
FUNV IV 07 21 33 32.0 6.77N 73.11W 175 2.4W
RSNC IV 07 21 33 33.9–.65 6.73N 73.08W 143–4 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.4km az=38.9.
RSNC Error ellipse: s-maj=2.4km s-min=3.7km az=-1.0.
ISC IV 08 04 44 42.9–1.6 8.34N–.06 73.59W–.05 105–17 28 1-6
ISCJB IV 08 04 44 42.7–.77 8.37N–.05 73.57W–.05 105–12 **¶601700081**
RSNC IV 08 04 44 43.9–.94 8.30N 73.60W 105–12 2.5L
FUNV IV 08 04 44 43.7 8.38N 73.57W 11 2.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.8km az=136.5.
RSNC Error ellipse: s-maj=6.5km s-min=5.1km az=-1.0.
ISC IV 08 08 59 36.6–1.2 6.85N–.05 73.09W–.05 145–8 33 0-63
ISCJB IV 08 08 59 36.2–.82 6.84N–.04 73.13W–.05 144–6 3.3b **¶17200225**
RSNC IV 08 08 59 36.5–.92 6.85N 73.11W 146–5 2.5L
IDC IV 08 08 59 38.8–1.1 6.39N 72.42W 76–15 3.1,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.8km az=30.4.
RSNC Error ellipse: s-maj=3.7km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=7.4km az=131.0.
ISC IV 08 17 37 06.8–1.7 6.81N–.07 73.06W–.07 164–11 24 0-5
ISCJB IV 08 17 37 06.6–.85 6.83N–.06 73.07W–.07 164–7 **¶601700086**
FUNV IV 08 17 37 07.2 7.01N 73.27W 179 2.6W
RSNC IV 08 17 37 09.6–.65 6.79N 73.11W 144–5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=5.7km az=41.4.
RSNC Error ellipse: s-maj=3.5km s-min=5.1km az=-1.0.
ISC IV 09 17 35 43.1–1.5 6.88N–.06 73.14W–.05 159–9 26 0-6
ISCJB IV 09 17 35 43.3–.76 6.95N–.05 73.17W–.05 157–7 **¶601700092**
FUNV IV 09 17 35 44.9 6.86N 73.16W 158 2.8W
RSNC IV 09 17 35 46.1–1.1 6.75N 73.10W 137–11 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.3km az=142.5.
RSNC Error ellipse: s-maj=9.3km s-min=8.0km az=-1.0.
ISC IV 10 03 04 52.2–1.4 6.80N–.04 73.07W–.05 160–8 34 0-5
ISCJB IV 10 03 04 52.6–.64 6.78N–.04 73.06W–.04 153–6 **¶601700094**
FUNV IV 10 03 04 53.6 6.81N 73.12W 166 2.8W
RSNC IV 10 03 04 55.2–.59 6.73N 73.11W 140–4 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.6km az=42.0.
RSNC Error ellipse: s-maj=2.5km s-min=3.3km az=-1.0.
ISC IV 11 14 23 51.2–1.6 7.14N–.07 72.21W–.05 14–12 17 1-7
ISCJB IV 11 14 23 51.5–1.1 7.14N–.06 72.20W–.05 19–11 **¶601700099**
RSNC IV 11 14 23 52.7–.76 7.21N 72.29W 0–9 2.5L
FUNV IV 11 14 23 53.5 7.24N 72.11W 5 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.1km az=1.0.
RSNC Error ellipse: s-maj=6.5km s-min=3.5km az=-1.0.
ISC IV 11 17 42 20.3–.91 6.81N–.04 73.08W–.05 157–6 40 0-149
ISCJB IV 11 17 42 19.8–.50 6.80N–.04 73.06W–.05 160–4 3.6b **¶17200661**
IDC IV 11 17 42 20.2–.80 6.75N 73.01W 156–16 3.9,3.6
FUNV IV 11 17 42 21.2 6.82N 73.08W 173 3.0W,3.6
RSNC IV 11 17 42 22.1–.76 6.79N 73.11W 144–4 3.2L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.3km az=36.6.
IDC Error ellipse: s-maj=54.0km s-min=7.6km az=132.0.
RSNC Error ellipse: s-maj=2.7km s-min=4.0km az=-1.0.
ISC IV 13 06 46 00.6–1.4 6.83N–.05 73.09W–.06 163–8 35 0-6
ISCJB IV 13 06 46 00.5–.59 6.85N–.04 73.10W–.05 162–5 **¶601700111**
RSNC IV 13 06 46 02.7–.94 6.81N 73.11W 149–6 2.7L
FUNV IV 13 06 46 02.2 6.79N 73.09W 164 2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.6km az=38.7.
RSNC Error ellipse: s-maj=4.8km s-min=6.1km az=-1.0.
ISC IV 13 07 50 13.6–1.3 7.22N–.05 72.17W–.04 7–11 35 1-7
ISCJB IV 13 07 50 14.6–.80 7.23N–.04 72.17W–.04 21–8 **¶601700112**
FUNV IV 13 07 50 14.9 7.22N 72.18W 3 2.6W
RSNC IV 13 07 50 15.5–1.3 7.25N 72.26W 1–12 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.0km az=137.6.
RSNC Error ellipse: s-maj=7.1km s-min=5.5km az=-1.0.
ISC IV 14 05 34 07.2–1.6 6.81N–.06 73.09W–.05 163–9 29 0-6
ISCJB IV 14 05 34 07.2–.78 6.83N–.05 73.08W–.05 162–6 **¶601700118**
FUNV IV 14 05 34 08.2 6.74N 73.12W 165 2.8W
RSNC IV 14 05 34 09.9–.89 6.79N 73.11W 145–8 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.1km az=135.7.
RSNC Error ellipse: s-maj=5.4km s-min=6.6km az=-1.0.
ISC IV 15 10 20 03.0–1.5 6.78N–.06 73.10W–.05 156–9 28 0-5
ISCJB IV 15 10 20 03.2–.70 6.82N–.05 73.12W–.05 154–7 **¶601700129**
RSNC IV 15 10 20 05.2–.64 6.77N 73.16W 145–4 2.5L
FUNV IV 15 10 20 05.1 6.78N 73.07W 161 2.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.0km az=137.8.
RSNC Error ellipse: s-maj=3.6km s-min=4.5km az=-1.0.
ISC IV 16 05 14 23.8–1.5 7.41N–.06 73.17W–.06 139–8 30 0-6
ISCJB IV 16 05 14 23.3–.69 7.41N–.05 73.17W–.05 139–6 **¶601700140**
FUNV IV 16 05 14 24.5 7.38N 73.24W 138 2.5W
RSNC IV 16 05 14 25.1–.79 7.39N 73.20W 131–6 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.7km az=135.1.
RSNC Error ellipse: s-maj=4.6km s-min=6.1km az=-1.0.
RSNC IV 16 20 53 50.7–.49 6.71N 73.10W 137–6 1.8L
¶602586721
RSNC Error ellipse: s-maj=6.3km s-min=6.5km az=-1.0.
ISC IV 16 22 30 53.8–.70 6.76N–.05 73.01W–.05 164–5 3.5b 64 0-154
ISCJB IV 16 22 30 52.7–.37 6.72N–.04 72.97W–.04 165–3 3.5b **¶17201268**
FUNV IV 16 22 30 54.2 6.77N 73.12W 169 4.0W
IDC IV 16 22 30 54.5–1.4 6.73N 72.87W 172–13 3.9,3.6
RSNC IV 16 22 30 55.4–.65 6.76N 73.12W 149–4 4.0L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=139.7.

IDC Error ellipse: s-maj=21.0km s-min=18.0km az=116.0.
RSNC Error ellipse: s-maj=4.2km s-min=5.9km az=-1.0.
ISC IV 18 02 33 38.6–1.4 6.85N–.04 73.06W–.05 171–9 38 0-5
ISCJB IV 18 02 33 39.5–.62 6.81N–.04 73.07W–.05 162–6 **¶601700143**
RSNC IV 18 02 33 42.5–.64 6.79N 73.15W 144–4 2.8L
FUNV IV 18 02 33 43.4 6.95N 72.90W 164 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.4km az=33.3.
RSNC Error ellipse: s-maj=2.4km s-min=3.5km az=-1.0.
RSNC IV 18 08 00 48.8–.51 8.31N 73.53W 170–10 1.9L
¶602586801
RSNC Error ellipse: s-maj=26.4km s-min=21.4km az=-1.0.
ISC IV 18 13 15 49.1–1.4 6.83N–.04 73.09W–.05 167–8 46 0-6
ISCJB IV 18 13 15 49.3–.53 6.82N–.03 73.08W–.05 163–5 **¶601700146**
FUNV IV 18 13 15 50.5 6.80N 73.12W 171 3.4W
RSNC IV 18 13 15 51.8–.97 6.79N 73.11W 148–6 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.7km az=33.4.
RSNC Error ellipse: s-maj=3.5km s-min=5.9km az=-1.0.
ISC IV 18 14 46 06.0–.77 6.83N–.04 73.09W–.05 163–5 3.3b 55 0-150
ISCJB IV 18 14 46 05.4–.35 6.84N–.04 73.08W–.04 167–3 3.3b **¶17201418**
IDC IV 18 14 46 06.4–.67 6.75N 72.98W 168–7 3.7,3.5
FUNV IV 18 14 46 07.2 6.79N 73.09W 168 3.7W,3.5
RSNC IV 18 14 46 08.6–.84 6.80N 73.18W 145–5 3.4L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.8km az=36.6.
IDC Error ellipse: s-maj=21.2km s-min=7.7km az=133.0.
RSNC Error ellipse: s-maj=3.1km s-min=4.9km az=-1.0.
ISC IV 18 17 47 37.0–1.3 9.61N–.06 73.69W–.09 19 15 1-6
ISCJB IV 18 17 47 38.0–1.0 9.61N–.05 73.56W–.08 19 **¶601700149**
RSNC IV 18 17 47 38.6–.91 9.53N 73.52W 2–13 2.8L
FUNV IV 18 17 47 39.8 9.73N 73.74W 36 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.3km az=25.5.
RSNC Error ellipse: s-maj=14.9km s-min=15.1km az=-1.0.
ISC IV 18 18 11 47.9–1.4 6.82N–.04 73.10W–.05 163–8 43 0-6
ISCJB IV 18 18 11 47.9–.52 6.83N–.04 73.10W–.04 161–5 **¶601700151**
FUNV IV 18 18 11 48.8 6.76N 73.14W 168 3.0W
RSNC IV 18 18 11 50.7–.66 6.79N 73.13W 144–4 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.9km az=39.4.
RSNC Error ellipse: s-maj=2.8km s-min=3.6km az=-1.0.
RSNC IV 19 03 48 42.9–.58 6.73N 73.11W 140–6 1.8L
¶602586830
RSNC Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.
ISC IV 20 13 22 51.4–1.4 6.85N–.04 73.03W–.04 166–8 44 0-6
ISCJB IV 20 13 22 52.5–.59 6.83N–.04 73.03W–.04 156–5 **¶601700159**
RSNC IV 20 13 22 54.6–1.1 6.80N 73.09W 146–6 3.1L
FUNV IV 20 13 22 54.4 6.88N 73.04W 164 3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.2km az=43.1.
RSNC Error ellipse: s-maj=4.0km s-min=5.2km az=-1.0.
ISC IV 22 07 31 52.6–.83 6.61N–.04 72.81W–.05 205–5 2.9b 54 0-150
ISCJB IV 22 07 31 52.2–.44 6.59N–.04 72.81W–.04 204–4 3.0b **¶17201797**
FUNV IV 22 07 31 52.9 6.63N 72.80W 222 2.9W
IDC IV 22 07 31 53.0–.73 6.60N 72.75W 206–7 3.4,3.2
RSNC IV 22 07 31 54.9–1.1 6.57N 72.92W 189–5 3.3L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.2km az=34.8.
IDC Error ellipse: s-maj=23.6km s-min=8.2km az=129.0.
RSNC Error ellipse: s-maj=3.4km s-min=5.8km az=-1.0.
ISC IV 22 13 32 43.6–1.4 6.84N–.05 73.08W–.05 166–8 35 0-6
ISCJB IV 22 13 32 44.4–.64 6.81N–.05 73.08W–.05 159–5 **¶601700177**
RSNC IV 22 13 32 46.8–1.1 6.77N 73.12W 147–6 2.7L
FUNV IV 22 13 32 47.6 6.97N 73.04W 162 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.7km az=43.2.
RSNC Error ellipse: s-maj=4.5km s-min=5.7km az=-1.0.
ISC IV 22 14 08 36.5–1.5 6.80N–.05 73.04W–.06 161–8 33 0-6
ISCJB IV 22 14 08 36.8–.67 6.78N–.05 73.03W–.06 158–6 **¶601700178**
FUNV IV 22 14 08 38.0 6.83N 73.10W 167 2.6W
RSNC IV 22 14 08 39.3–1.1 6.76N 73.07W 143–7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.1km az=41.6.
RSNC Error ellipse: s-maj=4.5km s-min=6.7km az=-1.0.
ISC IV 23 09 44 33.1–1.4 6.84N–.04 73.10W–.05 162–8 42 0-6
ISCJB IV 23 09 44 33.5–.55 6.83N–.04 73.08W–.04 158–5 **¶601700191**
FUNV IV 23 09 44 34.7 6.81N 73.13W 162 2.8W
RSNC IV 23 09 44 36.1–1.0 6.79N 73.13W 142–6 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.4km az=35.1.
RSNC Error ellipse: s-maj=3.4km s-min=5.1km az=-1.0.
ISC IV 24 06 20 19.0–1.4 6.85N–.04 73.08W–.05 162–8 48 0-6
ISCJB IV 24 06 20 19.4–.49 6.83N–.03 73.05W–.04 157–5 **¶601700196**
FUNV IV 24 06 20 21.8 6.91N 73.10W 159 2.8W
RSNC IV 24 06 20 21.7–1.1 6.80N 73.10W 144–6 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.9km az=34.7.
RSNC Error ellipse: s-maj=3.6km s-min=5.8km az=-1.0.
ISC IV 25 15 23 29.8–1.5 6.83N–.05 73.07W–.06 167–8 34 0-5
ISCJB IV 25 15 23 30.5–.68 6.80N–.05 73.06W–.06 162–6 **¶601700206**
FUNV IV 25 15 23 30.8 6.86N 73.16W 179 2.8W
RSNC IV 25 15 23 33.0–1.2 6.78N 73.11W 146–8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.7km az=37.7.
RSNC Error ellipse: s-maj=4.9km s-min=7.7km az=-1.0.
ISC IV 25 19 19 11.1–1.4 6.79N–.06 73.03W–.06 160–8 30 0-5
ISCJB IV 25 19 19 11.5–.76 6.82N–.05 73.07W–.06 157–7 **¶601700207**
FUNV IV 25 19 19 11.9 6.71N 73.16W 151 2.9W
RSNC IV 25 19 19 14.1–.93 6.79N 73.10W 142–6 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.9km az=43.4.
RSNC Error ellipse: s-maj=4.3km s-min=5.3km az=-1.0.
ISC IV 26 09 25 17.6–1.5 6.81N–.05 73.10W–.06 159–9 28 0-5
ISCJB IV 26 09 25 17.9–.76 6.84N–.04 73.12W–.05 157–7 **¶601700210**
FUNV IV 26 09 25 18.1 6.72N 73.11W 168 2.6W
RSNC IV 26 09 25 20.1–.96 6.80N 73.15W 144–7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.1km az=36.7.
RSNC Error ellipse: s-maj=3.9km s-min=6.7km az=-1.0.
ISC IV 27 02 57 56.1–.95 6.82N–.04 73.07W–.05 159–6 48 0-150
ISCJB IV 27 02 57 55.2–.48 6.84N–.04 73.07W–.04 164–4 3.4b **¶17202204**
FUNV IV 27 02 57 56.9 6.79N 73.07W 167 3.0W
RSNC IV 27 02 57 58.3–.93 6.80N 73.14W 144–6 2.8L
IDC IV 27 02 58 00.8–3.8 6.86N 74.36W 167–43 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.2km az=35.8.
RSNC Error ellipse: s-maj=3.4km s-min=5.7km az=-1.0.
IDC Error ellipse: s-maj=477.7km s-min=30.5km az=90.0.
ISC IV 27 16 43 30.0–2.3 8.60N–.09 73.17W–.10 143–15 21 0-5
FUNV IV 27 16 43 31.7 8.67N 73.25W 132 2.4W **¶601700217**
RSNC IV 27 16 43 32.4–.61 8.55N 73.21W 133–5 2.5L
ISC Event type ke.
RSNC Error ellipse: s-maj=5.0km s-min=6.1km az=-1.0.
ISC IV 27 17 42 38.9–1.3 9.55N–.04 73.47W–.04 15–13 15 1-3
FUNV IV 27 17 42 41.1 9.78N 73.85W 35 3.1W **¶601700218**
RSNC IV 27 17 42 41.7–.76 9.55N 73.34W 0–16 2.5L
ISC Event type ke.
RSNC Error ellipse: s-maj=16.6km s-min=12.4km az=-1.0.
ISC IV 28 02 29 22.4–.71 6.82N–.04 73.07W–.05 161–5 3.4b 59 0-150
ISCJB IV 28 02 29 21.5–.34 6.84N–.03 73.07W–.04 165–3 3.4b **¶17202271**
IDC IV 28 02 29 22.5–.64 6.74N 72.94W 165–7 3.9,3.6
FUNV IV 28 02 29 23.3 6.81N 73.09W 170 4.0W,3.6
RSNC IV 28 02 29 24.2–.79 6.80N 73.16W 148–5 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.9km az=37.9.
IDC Error ellipse: s-maj=20.5km s-min=7.3km az=133.0.
RSNC Error ellipse: s-maj=2.8km s-min=4.6km az=-1.0.
ISC IV 28 06 29 30.7–1.8 8.36N–.05 73.21W–.07 133–11 30 0-5
ISCJB IV 28 06 29 30.7–.85 8.38N–.04 73.19W–.06 132–6 **¶601700222**
RSNC IV 28 06 29 32.7–.46 8.30N 73.24W 126–4 2.3L
FUNV IV 28 06 29 32.5 8.36N 73.22W 131 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.2km az=26.1.
RSNC Error ellipse: s-maj=3.7km s-min=5.3km az=-1.0.
ISC IV 28 21 59 28.1–.96 6.77N–.05 73.01W–.05 164–6 52 0-63
ISCJB IV 28 21 59 27.6–.46 6.81N–.04 73.06W–.05 166–4 3.1b **¶17202329**
FUNV IV 28 21 59 27.9 6.68N 73.09W 175 3.2W
IDC IV 28 21 59 28.5–2.7 6.61N 72.80W 173–35 3.4,3.2
RSNC IV 28 21 59 30.1–.91 6.76N 73.09W 150–5 3.1L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=3.6km az=42.1.
IDC Error ellipse: s-maj=128.3km s-min=8.5km az=134.0.
RSNC Error ellipse: s-maj=3.6km s-min=4.8km az=-1.0.
ISC V 01 04 52 14.2–.49 6.82N–.03 73.00W–.04 165–4 4.4b 179 0-150
ISCJB V 01 04 52 12.9–.19 6.78N–.02 73.00W–.02 166–1 4.3b **¶16485954**
NEIC V 01 04 52 13.4–.55 6.62N 73.16W 159–5 4.4b
FUNV V 01 04 52 14.9 6.81N 73.06W 173 3.6W
IDC V 01 04 52 14.5–.57 6.78N 72.95W 172–5 4.1,3.8
RSNC V 01 04 52 15.3–1.2 6.79N 73.12W 152–6 4.4L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.2km az=38.8.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.7km az=163.0.
IDC Error ellipse: s-maj=11.9km s-min=8.2km az=125.0.
RSNC Error ellipse: s-maj=3.6km s-min=5.0km az=-1.0.
ISC V 01 17 49 39.4–.76 6.81N–.04 73.05W–.04 161–5 3.2b 63 0-150
ISCJB V 01 17 49 38.7–.38 6.85N–.04 73.07W–.04 163–3 3.3b **¶17202545**
FUNV V 01 17 49 38.8 6.73N 73.19W 169 3.7W
IDC V 01 17 49 39.6–.70 6.76N 72.95W 164–8 3.7,3.5
RSNC V 01 17 49 41.4–.92 6.78N 73.12W 146–4 3.6L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.4km az=43.4.
IDC Error ellipse: s-maj=29.6km s-min=7.6km az=130.0.
RSNC Error ellipse: s-maj=3.2km s-min=4.5km az=-1.0.
ISC V 02 03 39 32.9–1.2 7.96N–.03 73.25W–.03 3–11 30 0-4
FUNV V 02 03 39 31.5 7.79N 73.38W 5 3.0W **¶601700237**
ISCJB V 02 03 39 32.6–.67 7.98N–.02 73.27W–.03 3–4 3.0W
RSNC V 02 03 39 33.9–.57 8.00N 73.27W 4–4 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=17.8.
RSNC Error ellipse: s-maj=1.7km s-min=1.9km az=-1.0.
ISC V 02 23 55 51.3–1.5 6.80N–.05 73.09W–.06 170–9 39 0-8
ISCJB V 02 23 55 51.6–.58 6.81N–.04 73.08W–.05 166–5 **¶601700248**
FUNV V 02 23 55 52.8 6.74N 73.13W 164 3.4W
RSNC V 02 23 55 54.4–.64 6.78N 73.13W 149–4 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.5km az=33.8.
RSNC Error ellipse: s-maj=2.5km s-min=4.7km az=-1.0.
ISC V 03 00 49 03.8–1.5 6.80N–.06 72.99W–.07 167–9 30 0-5
FUNV V 03 00 49 03.4 6.92N 73.15W 195 3.5W **¶601700249**
ISCJB V 03 00 49 04.7–.84 6.76N–.06 73.00W–.07 159–7 3.5W
RSNC V 03 00 49 07.5–.66 6.76N 73.08W 143–4 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.4km az=39.1.
RSNC Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
ISC V 03 05 29 53.4–2.3 10.91N–.08 73.7W–.10 35 30 1-8
RSNC V 03 05 29 50.5–.89 10.89N 73.74W 0–26 3.0L **¶601700250**
FUNV V 03 05 29 53.2 11.02N 73.83W 35 3.1W
ISC Event type ke.
RSNC Error ellipse: s-maj=24.5km s-min=47.6km az=-1.0.
ISC V 03 05 58 14.4–1.7 10.30N–.05 73.14W–.06 127–15 34 1-7
ISCJB V 03 05 58 15.1–.83 10.28N–.04 73.09W–.06 119–8 **¶601700251**
FUNV V 03 05 58 17.7 10.26N 73.08W 115 3.4W
RSNC V 03 05 58 18.0–.78 10.30N 73.22W 42–999 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.0km az=33.0.
RSNC Error ellipse: s-maj=4.0km s-min=7.9km az=-1.0.
ISC V 03 06 01 59.7–1.6 6.79N–.06 73.12W–.06 151–9 25 0-5
ISCJB V 03 06 01 59.3–.72 6.81N–.06 73.13W–.05 152–6 **¶601700252**
RSNC V 03 06 02 00.6–.71 6.78N 73.12W 148–6 2.6L
FUNV V 03 06 02 05.5 7.00N 72.90W 121 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.5km az=138.1.
RSNC Error ellipse: s-maj=4.5km s-min=5.8km az=-1.0.
ISC V 03 06 02 31.8–1.7 6.97N–.05 71.81W–.04 8–12 25 1-4
ISCJB V 03 06 02 30.4–1.7 6.98N–.04 71.78W–.03 0–12 **¶601700255**
RSNC V 03 06 02 32.7–.77 6.97N 71.81W 4–10 2.8L
FUNV V 03 06 02 32.4 6.91N 71.94W 20 2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.1km az=156.1.
RSNC Error ellipse: s-maj=7.1km s-min=12.2km az=-1.0.
ISC V 03 08 10 23.7–1.4 6.83N–.05 73.09W–.06 171–9 31 0-6
ISCJB V 03 08 10 24.0–.69 6.79N–.05 73.06W–.06 168–6 **¶601700256**
FUNV V 03 08 10 25.7 6.89N 73.14W 174 2.4W
RSNC V 03 08 10 26.8–.40 6.77N 73.12W 151–3 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.7km az=40.1.
RSNC Error ellipse: s-maj=2.4km s-min=3.7km az=-1.0.
ISC V 03 09 27 19.9–1.1 6.85N–.04 73.06W–.05 162–7 43 0-74
ISCJB V 03 09 27 19.2–.49 6.87N–.04 73.07W–.05 166–4 3.0b **¶601700257**
FUNV V 03 09 27 19.5 6.77N 73.17W 170 2.8W
IDC V 03 09 27 22.6–4.5 5.72N 76.36W 177–23 3.3,3.0
RSNC V 03 09 27 22.3–.57 6.79N 73.10W 144–4 2.8L,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=34.4.
IDC Error ellipse: s-maj=165.6km s-min=33.0km az=31.0.
RSNC Error ellipse: s-maj=2.9km s-min=4.0km az=-1.0.
ISC V 04 23 08 49.4–1.7 6.77N–.06 73.06W–.07 156–10 25 0-5
ISCJB V 04 23 08 49.8–.97 6.76N–.05 73.09W–.07 153–8 **¶601700265**
RSNC V 04 23 08 51.3–.75 6.75N 73.09W 146–5 2.7L
FUNV V 04 23 08 51.7 7.16N 73.54W 8 2.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=5.7km az=36.7.
RSNC Error ellipse: s-maj=3.2km s-min=4.7km az=-1.0.
ISC V 05 06 29 41.7–1.4 6.81N–.04 73.04W–.05 160–8 38 0-6
ISCJB V 05 06 29 41.8–.65 6.79N–.04 73.03W–.04 157–6 **¶601700267**
FUNV V 05 06 29 42.5 6.82N 73.17W 168 3.0W
RSNC V 05 06 29 43.9–.78 6.77N 73.05W 146–5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.4km az=41.9.
RSNC Error ellipse: s-maj=2.9km s-min=5.5km az=-1.0.
ISC V 05 20 00 37.6–1.5 6.76N–.06 73.03W–.06 165–9 28 0-5
ISCJB V 05 20 00 37.6–.77 6.78N–.05 73.06W–.06 164–6 **¶601700271**
FUNV V 05 20 00 37.7 6.61N 73.02W 172 3.1W
RSNC V 05 20 00 40.6–.69 6.77N 73.11W 146–4 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=4.9km az=41.8.
RSNC Error ellipse: s-maj=3.4km s-min=4.4km az=-1.0.
ISC V 06 01 05 12.2–1.6 6.86N–.05 73.04W–.06 172–9 29 0-4
ISCJB V 06 01 05 13.9–.82 6.80N–.06 72.97W–.05 157–7 **¶601700274**
RSNC V 06 01 05 16.5–.70 6.77N 73.09W 144–5 2.3L
FUNV V 06 01 05 16.3 6.99N 73.07W 156 2.5W

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.3km az=139.8.
RSNC Error ellipse: s-maj=3.5km s-min=5.2km az=-1.0.
ISC V 06 21 30 40.4–1.1 6.52N–.06 73.1W–.10 172–7 29 0-150
ISCJB V 06 21 30 41.9–1.1 6.50N–.05 73.16W–.07 162–8 3.5b **¶602744937**
IDC V 06 21 30 42.2–6.8 6.44N 75.99W 136–78 3.5,3.4
RSNC V 06 21 30 42.2–.58 6.50N 73.12W 162–3 3.1L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=6.5km az=28.8.
IDC Error ellipse: s-maj=143.1km s-min=32.3km az=81.0.
RSNC Error ellipse: s-maj=2.3km s-min=3.5km az=-1.0.
ISC V 07 04 47 54.8–1.4 6.81N–.04 73.08W–.05 157–8 43 0-8
ISCJB V 07 04 47 54.7–.55 6.82N–.04 73.08W–.05 157–5 **¶601700278**
FUNV V 07 04 47 55.8 6.77N 73.13W 165 2.8W
RSNC V 07 04 47 57.4–.54 6.79N 73.12W 141–3 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.2km az=37.6.
RSNC Error ellipse: s-maj=2.1km s-min=3.7km az=-1.0.
ISC V 07 05 08 35.0–1.6 10.42N–.05 73.21W–.06 114–14 43 1-7
ISCJB V 07 05 08 34.8–.69 10.40N–.04 73.18W–.04 111–8 **¶601700279**
RSNC V 07 05 08 36.6–.45 10.41N 73.30W 24–7 3.3L
FUNV V 07 05 08 37.1 10.38N 73.23W 105 3.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.1km az=38.5.
RSNC Error ellipse: s-maj=2.5km s-min=4.4km az=-1.0.
ISC V 07 21 03 11.6–.59 6.79N–.04 73.03W–.04 164–4 3.6b 77 0-150
ISCJB V 07 21 03 10.5–.29 6.82N–.03 73.04W–.03 165–2 3.7b **¶17203004**
FUNV V 07 21 03 10.6 6.69N 73.20W 166 4.2W
IDC V 07 21 03 11.7–.58 6.78N 72.97W 164–6 4.1,3.8
RSNC V 07 21 03 12.8–.62 6.77N 73.11W 152–3 4.2L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.1km az=41.8.
IDC Error ellipse: s-maj=14.7km s-min=7.5km az=124.0.
RSNC Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
ISC V 08 12 23 46.3–1.4 6.08N–.05 71.86W–.04 4–12 26 1-7
FUNV V 08 12 23 41.3 5.73N 72.41W 5 3.4W **¶601700282**
RSNC V 08 12 23 50.6–.94 6.10N 72.07W 0–9 2.8L
ISC Event type ke.
RSNC Error ellipse: s-maj=4.9km s-min=8.4km az=-1.0.
ISC V 08 18 00 00.8–1.4 6.80N–.04 73.04W–.05 164–8 37 0-5
ISCJB V 08 18 00 00.8–.63 6.81N–.04 73.04W–.05 163–5 **¶601700286**
FUNV V 08 18 00 00.7 6.67N 73.17W 163 2.9W
RSNC V 08 18 00 03.7–.98 6.78N 73.12W 145–6 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.1km az=37.2.
RSNC Error ellipse: s-maj=3.5km s-min=5.5km az=-1.0.
RSNC V 09 09 59 55.7–.67 6.78N 73.11W 145–4 2.2L
FUNV V 09 09 59 53.1 6.62N 73.17W 151 2.3W **¶601700289**
RSNC Error ellipse: s-maj=2.7km s-min=5.6km az=-1.0.
ISC V 10 08 45 01.4–1.5 6.78N–.05 73.06W–.06 159–9 30 0-5
ISCJB V 10 08 45 01.4–.77 6.79N–.05 73.07W–.06 159–6 **¶601700290**
FUNV V 10 08 45 01.7 6.72N 73.12W 169 2.5W
RSNC V 10 08 45 04.0–.71 6.77N 73.11W 143–5 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.2km az=37.6.
RSNC Error ellipse: s-maj=2.9km s-min=5.0km az=-1.0.
ISC V 10 09 49 41.2–1.4 6.80N–.05 73.06W–.06 162–8 37 0-5
ISCJB V 10 09 49 41.7–.65 6.84N–.05 73.11W–.06 159–6 **¶601700291**
FUNV V 10 09 49 41.8 6.71N 73.14W 169 3.0W
RSNC V 10 09 49 44.4–.75 6.80N 73.15W 142–5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=5.2km az=41.7.
RSNC Error ellipse: s-maj=3.4km s-min=4.7km az=-1.0.
ISC V 10 15 59 22.1–1.7 9.31N–.04 73.2W–.10 9–14 17 1-3
FUNV V 10 15 59 23.6 9.39N 73.30W 22 2.9W **¶601700293**
RSNC V 10 15 59 24.1–.50 9.24N 73.19W 0–5 3.0L
ISC Event type ke.
RSNC Error ellipse: s-maj=2.8km s-min=8.7km az=-1.0.
ISC V 12 03 27 50.3–.82 6.88N–.03 73.57W–.03 13–5 3.4b 34 0-150
ISCJB V 12 03 27 51.1–.50 6.88N–.03 73.57W–.03 22–5 3.4b **¶16709661**
RSNC V 12 03 27 51.6–1.0 6.89N 73.55W 14–4 3.6L
NEIC V 12 03 27 51.6 6.89N 73.55W 14 3.6L,3.5b
IDC V 12 03 27 52.6–4.7 6.83N 73.16W 58–47 3.4,3.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=161.2.
RSNC Error ellipse: s-maj=2.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Felt at Bucaramanga. After RSNC.
IDC Error ellipse: s-maj=48.0km s-min=30.2km az=41.0.
RSNC V 12 09 24 16.9–.38 6.78N 73.06W 147–6 1.5L
¶602745354
RSNC Error ellipse: s-maj=2.6km s-min=4.6km az=-1.0.
ISC V 12 21 21 37.7–1.4 6.84N–.05 73.07W–.05 164–8 43 0-8
ISCJB V 12 21 21 38.0–.54 6.82N–.04 73.04W–.05 160–5 **¶601700302**
FUNV V 12 21 21 39.1 6.82N 73.15W 159 3.1W
RSNC V 12 21 21 40.7–.97 6.79N 73.11W 145–5 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.0km az=42.5.
RSNC Error ellipse: s-maj=3.8km s-min=5.4km az=-1.0.
ISC V 13 01 27 12.9–1.3 6.89N–.05 73.06W–.05 173–7 45 0-6
ISCJB V 13 01 27 13.6–.59 6.88N–.05 73.07W–.05 168–5 **¶601700304**
FUNV V 13 01 27 13.5 6.93N 73.26W 180 2.4W
RSNC V 13 01 27 16.7–.84 6.77N 73.09W 147–4 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.2km az=135.3.
RSNC Error ellipse: s-maj=4.2km s-min=5.1km az=-1.0.
ISC V 13 02 55 07.3–1.9 6.08N–.08 71.70W–.05 14–13 18 1-5
FUNV V 13 02 55 03.7 5.62N 71.97W 35 2.5W **¶601700306**
RSNC V 13 02 55 14.0–.74 6.18N 71.99W 15–41 1.8L
ISC Event type ke.
RSNC Error ellipse: s-maj=13.0km s-min=28.8km az=-1.0.
ISC V 13 15 18 24.2–.43 6.74N–.03 73.00W–.03 160–3 4.9b 976 0-154
CASC V 13 15 18 19.3–27 6.23N 72.74W 154–239 4.9b **¶16510409**
ISCJB V 13 15 18 23.3–.17 6.75N–.02 72.99W–.02 166–1 4.9b
IDC V 13 15 18 24.2–.63 6.73N 72.95W 158–5 4.8,4.5
NEIC V 13 15 18 24.6–.12 6.72N 72.93W 164 4.9b,4.5
RSNC V 13 15 18 25.9–.99 6.78N 73.12W 152–4 5.2L,4.5
FUNV V 13 15 18 26.2 6.86N 73.03W 170 5.0W,4.5
ISC Event type fe.
CASC Error ellipse: s-maj=151.7km s-min=122.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=33.9.
IDC Error ellipse: s-maj=9.7km s-min=6.6km az=115.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.4km az=85.0. Felt [II] at Bogota and Bucaramanga. Also felt at Barichara, Contratacion, Floridablanca and Remedios.
RSNC Error ellipse: s-maj=3.5km s-min=5.5km az=-1.0.
ISC V 13 23 15 43.2–1.4 6.81N–.04 73.06W–.05 165–8 44 0-8
ISCJB V 13 23 15 43.5–.51 6.78N–.04 73.03W–.05 161–5 **¶601700313**
FUNV V 13 23 15 45.2 6.87N 73.12W 168 3.4W
RSNC V 13 23 15 46.1–.59 6.77N 73.07W 146–3 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.3km az=41.7.
RSNC Error ellipse: s-maj=2.1km s-min=3.8km az=-1.0.
ISC V 14 06 08 57.8–1.4 6.75N–.04 72.69W–.05 8–13 26 1-8
ISCJB V 14 06 08 57.4–.94 6.71N–.04 72.66W–.04 8–7 **¶601700315**
RSNC V 14 06 08 58.7–1.9 6.72N 72.70W 4–20 2.5L
FUNV V 14 06 09 03.4 6.88N 72.50W 7 2.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.9km az=137.5.
RSNC Error ellipse: s-maj=6.1km s-min=10.7km az=-1.0.
ISC V 15 04 28 17.3–1.6 6.81N–.06 73.04W–.06 159–9 31 0-4
ISCJB V 15 04 28 18.2–.74 6.80N–.06 73.03W–.06 150–6 **¶601700323**
FUNV V 15 04 28 18.9 6.87N 73.03W 174 2.6W
RSNC V 15 04 28 20.2–1.2 6.78N 73.09W 141–6 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=5.9km az=136.3.
RSNC Error ellipse: s-maj=5.8km s-min=8.3km az=-1.0.
ISC V 16 05 12 37.2–.50 6.80N–.03 72.99W–.04 152–4 4.5b 551 0-154
ISCJB V 16 05 12 36.4–.20 6.76N–.02 72.99W–.02 161–1 4.4b **¶16524514**
NEIC V 16 05 12 37.5–.39 6.74N 72.93W 154–4 4.7b
IDC V 16 05 12 37.6–.60 6.76N 72.93W 156–6 4.5,4.2
FUNV V 16 05 12 38.0 6.79N 73.11W 164 4.6W,4.2
RSNC V 16 05 12 39.0–1.0 6.76N 73.11W 142–6 4.7L,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=139.8.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.6km az=72.0. Felt at San Cristobal, Venezuela.
IDC Error ellipse: s-maj=9.7km s-min=6.6km az=123.0.
RSNC Error ellipse: s-maj=4.9km s-min=6.0km az=-1.0.
ISC V 16 07 28 45.5–2.3 6.78N–.07 73.17W–.10 169–13 22 0-6
ISCJB V 16 07 28 47.4–1.2 6.77N–.07 73.07W–.09 156–8 **¶601700330**
FUNV V 16 07 28 48.8 6.85N 73.18W 160 2.6W
RSNC V 16 07 28 49.8–.78 6.77N 73.09W 142–5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=9.9km az=32.8.
RSNC Error ellipse: s-maj=3.6km s-min=6.8km az=-1.0.
ISC V 16 11 47 01.3–1.6 6.84N–.06 73.06W–.06 161–9 27 0-5
ISCJB V 16 11 47 02.0–.81 6.83N–.06 73.08W–.05 154–7 **¶601700332**
FUNV V 16 11 47 03.3 6.89N 73.08W 168 2.5W
RSNC V 16 11 47 04.5–.76 6.83N 73.13W 140–5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=5.7km az=139.4.
RSNC Error ellipse: s-maj=3.5km s-min=4.6km az=-1.0.
ISC V 18 04 13 04.9–.82 6.82N–.05 73.04W–.04 158–5 3.2b 60 0-150
ISCJB V 18 04 13 04.0–.36 6.79N–.04 73.04W–.03 159–3 3.2b **¶17203852**
IDC V 18 04 13 05.6–1.4 6.77N 72.96W 163–15 3.7,3.5
FUNV V 18 04 13 05.4 6.83N 73.13W 169 3.6W,3.5
RSNC V 18 04 13 06.9–.60 6.77N 73.13W 142–3 3.7L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.4km az=137.7.
IDC Error ellipse: s-maj=29.8km s-min=19.3km az=127.0.
RSNC Error ellipse: s-maj=2.5km s-min=3.5km az=-1.0.
ISC V 18 19 10 30.6–1.5 6.82N–.05 73.09W–.05 166–9 33 0-5
ISCJB V 18 19 10 31.2–.66 6.85N–.05 73.10W–.05 161–6 **¶601700346**
FUNV V 18 19 10 31.9 6.82N 73.12W 175 2.9W
RSNC V 18 19 10 34.2–1.1 6.77N 73.11W 142–6 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.2km az=138.6.
RSNC Error ellipse: s-maj=4.6km s-min=6.4km az=-1.0.
ISC V 19 05 24 11.8–1.2 6.14N–.05 72.86W–.06 9–10 26 0-149
RSNC V 19 05 24 09.9–.39 5.95N 72.72W 9–2 2.6L **¶17203946**
FUNV V 19 05 24 14.0 6.02N 73.04W 97 3.1W
IDC V 19 05 24 15.3–7.5 5.89N 72.42W 60–57 3.5,3.4
ISC Event type ke.
RSNC Error ellipse: s-maj=3.5km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=81.8km s-min=40.8km az=122.0.
ISC V 19 07 49 02.5–1.4 6.79N–.04 73.08W–.05 165–8 50 0-8
ISCJB V 19 07 49 02.7–.48 6.79N–.04 73.06W–.04 162–4 **¶601700353**
FUNV V 19 07 49 04.7 6.83N 73.09W 170 3.4W
RSNC V 19 07 49 05.4–.49 6.76N 73.12W 146–3 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=3.8km az=41.5.
RSNC Error ellipse: s-maj=2.3km s-min=3.0km az=-1.0.
ISC V 19 12 22 30.2–.74 6.84N–.04 73.05W–.04 164–5 3.8b 71 0-150
ISCJB V 19 12 22 29.0–.34 6.85N–.03 73.04W–.03 165–3 3.6b **¶17203969**
FUNV V 19 12 22 30.6 6.78N 73.10W 169 3.0W
IDC V 19 12 22 30.4–.67 6.82N 73.01W 160–9 4.1s,4.1
RSNC V 19 12 22 32.2–1.0 6.77N 73.11W 146–6 3.8L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.3km az=136.2.
IDC Error ellipse: s-maj=28.4km s-min=7.4km az=130.0.
RSNC Error ellipse: s-maj=4.1km s-min=6.0km az=-1.0.
ISC V 19 17 48 44.8–.96 6.28N–.04 73.27W–.05 160–6 43 0-150
ISCJB V 19 17 48 44.7–.58 6.28N–.04 73.29W–.05 158–5 3.2b **¶601700354**
FUNV V 19 17 48 46.2 6.33N 73.32W 176 2.8W
RSNC V 19 17 48 46.7–1.0 6.26N 73.30W 144–6 3.2L
IDC V 19 17 48 47.7–6.3 6.21N 75.52W 134–77 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.1km az=41.4.
RSNC Error ellipse: s-maj=3.9km s-min=5.3km az=-1.0.
IDC Error ellipse: s-maj=176.7km s-min=39.3km az=81.0.
ISC V 20 02 38 48.8–1.4 6.84N–.05 73.09W–.06 163–8 37 0-5
ISCJB V 20 02 38 48.9–.64 6.84N–.05 73.10W–.05 160–5 **¶601700356**
FUNV V 20 02 38 48.8 6.81N 73.19W 177 3.1W
RSNC V 20 02 38 51.8–.77 6.81N 73.14W 143–4 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.6km az=42.9.
RSNC Error ellipse: s-maj=3.0km s-min=4.4km az=-1.0.
ISC V 20 03 14 50.1–.37 6.77N–.03 72.98W–.03 160–3 4.6b 776 0-154
ISCJB V 20 03 14 49.1–.18 6.75N–.02 72.97W–.02 167–1 4.6b **¶16530711**
NEIC V 20 03 14 50.5–.14 6.73N 72.91W 164 4.7b
IDC V 20 03 14 50.2–.39 6.73N 72.95W 161–3 4.7,4.3
FUNV V 20 03 14 51.1 6.80N 73.07W 168 4.6W,4.3
RSNC V 20 03 14 52.7–.91 6.77N 73.13W 142–5 4.9L,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=150.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.9km az=49.0. Felt [II] at Bucaramanga and Medellin. Also felt at Bogota, Cucuta, Piedecuesta and Valledupar.
IDC Error ellipse: s-maj=8.4km s-min=6.0km az=113.0.
RSNC Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
ISC V 20 13 33 04.5–3.4 10.12N–.03 73.03W–.04 3–23 3.5b 56 1-152
ISCJB V 20 13 33 04.1–.91 10.15N–.03 73.06W–.03 7–6 3.4b **¶17204043**
FUNV V 20 13 33 04.3 10.19N 73.15W 3 4.0W
RSNC V 20 13 33 05.8–.80 10.13N 73.00W 3–4 4.0L
IDC V 20 13 33 13.1–2.1 9.95N 72.64W 97–22 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=139.9.
RSNC Error ellipse: s-maj=2.7km s-min=3.3km az=-1.0.
IDC Error ellipse: s-maj=27.4km s-min=17.0km az=112.0.
ISC V 20 23 18 55.6–.89 6.81N–.04 73.03W–.04 160–5 52 0-150
ISCJB V 20 23 18 55.3–.45 6.80N–.03 73.05W–.04 159–4 3.3b **¶17204096**
IDC V 20 23 18 56.6–.79 6.77N 72.98W 165–12 3.7,3.5
FUNV V 20 23 18 57.4 6.98N 73.07W 172 3.5W,3.5
RSNC V 20 23 18 57.7–.59 6.77N 73.12W 146–3 3.5L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.8km az=40.3.
IDC Error ellipse: s-maj=41.2km s-min=7.7km az=132.0.
RSNC Error ellipse: s-maj=2.4km s-min=3.7km az=-1.0.
ISC V 21 07 38 07.7–1.4 6.83N–.05 73.07W–.05 169–8 39 0-5
ISCJB V 21 07 38 08.4–.61 6.81N–.04 73.06W–.05 162–5 **¶601700362**
RSNC V 21 07 38 11.3–.70 6.79N 73.14W 146–4 2.9L
FUNV V 21 07 38 11.3 6.96N 73.01W 175 2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.3km az=41.6.
RSNC Error ellipse: s-maj=2.6km s-min=4.1km az=-1.0.
ISC V 21 10 27 46.8–1.4 6.82N–.04 73.06W–.05 161–8 40 0-5
ISCJB V 21 10 27 47.1–.60 6.84N–.04 73.08W–.05 156–5 **¶601700363**
FUNV V 21 10 27 47.4 6.76N 73.08W 168 3.2W
RSNC V 21 10 27 49.9–1.2 6.79N 73.14W 141–6 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.3km az=40.2.
RSNC Error ellipse: s-maj=4.4km s-min=5.9km az=-1.0.
ISC V 21 15 18 52.7–1.7 10.59N–.06 73.05W–.06 121–14 26 1-7
ISCJB V 21 15 18 52.4–.85 10.59N–.05 73.02W–.04 121–9 **¶601700367**

FUNV V 21 15 18 53.1 10.66N 73.19W 108 2.8W
RSNC V 21 15 18 55.5–.38 10.53N 73.05W 23–8 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.8km az=160.2.
RSNC Error ellipse: s-maj=2.9km s-min=2.6km az=-1.0.
ISC V 22 06 32 48.0–1.3 7.25N–.04 72.50W–.04 7–11 33 0-7
RSNC V 22 06 32 49.6–1.9 7.29N 72.57W 2–6 2.8L **¶601700373**
FUNV V 22 06 32 50.2 7.34N 72.48W 3 3.0W
ISC Event type ke.
RSNC Error ellipse: s-maj=4.2km s-min=9.4km az=-1.0.
ISC V 22 15 18 13.6–1.4 6.83N–.04 73.10W–.05 168–7 46 0-6
ISCJB V 22 15 18 14.3–.50 6.85N–.04 73.09W–.04 162–4 **¶601700374**
FUNV V 22 15 18 15.4 6.79N 73.15W 169 3.1W
RSNC V 22 15 18 16.9–.88 6.79N 73.13W 148–4 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.4km az=38.2.
RSNC Error ellipse: s-maj=3.4km s-min=5.6km az=-1.0.
FUNV V 24 04 32 46.0 10.58N 73.09W 35 1.9W
¶603793174
RSNC V 24 04 33 14.6–.56 6.76N 73.06W 151–4 1.8L
¶601700383
RSNC Error ellipse: s-maj=3.4km s-min=5.4km az=-1.0.
ISC V 24 05 20 52.5–1.4 8.33N–.04 73.50W–.04 105–10 31 0-5
ISCJB V 24 05 20 52.1–.67 8.36N–.04 73.48W–.04 106–7 **¶601700384**
FUNV V 24 05 20 53.4 8.32N 73.47W 16 3.0W
RSNC V 24 05 20 53.9–.46 8.29N 73.56W 99–4 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=143.8.
RSNC Error ellipse: s-maj=2.4km s-min=2.8km az=-1.0.
ISC V 24 19 27 38.5–1.5 6.77N–.05 73.08W–.06 164–9 34 0-8
ISCJB V 24 19 27 39.0–.62 6.75N–.05 73.05W–.06 158–5 **¶601700389**
FUNV V 24 19 27 40.1 6.78N 73.13W 169 3.0W
RSNC V 24 19 27 42.1–.67 6.76N 73.13W 139–4 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=4.9km az=40.9.
RSNC Error ellipse: s-maj=2.4km s-min=4.2km az=-1.0.
ISC V 24 21 48 16.3–1.1 6.86N–.04 73.11W–.05 160–6 49 0-150
ISCJB V 24 21 48 16.6–.51 6.84N–.05 73.09W–.05 156–4 **¶17204410**
FUNV V 24 21 48 18.5 6.90N 73.12W 167 3.1W
RSNC V 24 21 48 19.4–.93 6.80N 73.17W 140–5 3.2L
IDC V 24 21 48 23.2–6.1 6.65N 74.26W 190–139 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.5km az=43.8.
RSNC Error ellipse: s-maj=3.6km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=1054.0km s-min=97.9km az=100.0.
ISC V 25 02 25 56.4–1.5 6.84N–.06 73.27W–.05 139–8 40 0-8
ISCJB V 25 02 25 56.2–.55 6.87N–.06 73.27W–.04 139–5 **¶601700391**
FUNV V 25 02 25 57.2 6.82N 73.37W 140 3.1W
RSNC V 25 02 25 58.8–.67 6.85N 73.31W 124–4 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.5km az=147.7.
RSNC Error ellipse: s-maj=3.6km s-min=3.8km az=-1.0.
ISC V 25 03 18 21.7–1.4 6.80N–.06 73.01W–.06 162–9 34 0-6
ISCJB V 25 03 18 21.8–.66 6.82N–.05 73.03W–.06 161–6 **¶601700392**
FUNV V 25 03 18 22.2 6.70N 73.10W 166 2.5W
RSNC V 25 03 18 24.6–.87 6.78N 73.09W 143–6 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=4.7km az=41.1.
RSNC Error ellipse: s-maj=4.9km s-min=6.9km az=-1.0.
ISC V 25 05 43 32.8–1.5 6.82N–.07 73.09W–.06 162–8 32 0-6
ISCJB V 25 05 43 33.1–.72 6.78N–.07 73.07W–.06 157–6 **¶601700394**
RSNC V 25 05 43 34.8–.97 6.75N 73.08W 148–6 2.1L
FUNV V 25 05 43 35.6 6.91N 73.12W 158 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=5.4km az=140.5.
RSNC Error ellipse: s-maj=6.2km s-min=7.1km az=-1.0.
ISC V 25 17 57 05.2–1.5 6.82N–.07 73.09W–.07 159–9 27 0-5
ISCJB V 25 17 57 05.0–.79 6.79N–.07 73.07W–.07 158–7 **¶601700401**
RSNC V 25 17 57 06.9–.74 6.79N 73.10W 149–6 2.7L
FUNV V 25 17 57 07.2 6.97N 73.18W 162 2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=5.5km az=43.2.
RSNC Error ellipse: s-maj=4.6km s-min=6.2km az=-1.0.
ISC V 25 22 32 15.0–1.4 6.84N–.04 73.12W–.04 166–7 48 0-6
ISCJB V 25 22 32 15.2–.50 6.84N–.04 73.12W–.04 163–4 **¶601700405**
FUNV V 25 22 32 16.5 6.85N 73.17W 172 2.9W
RSNC V 25 22 32 18.1–1.0 6.78N 73.12W 145–5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.0km az=135.9.
RSNC Error ellipse: s-maj=3.8km s-min=5.4km az=-1.0.
ISC V 26 04 29 36.0–1.5 6.76N–.05 73.06W–.05 169–9 32 0-6
ISCJB V 26 04 29 36.0–.72 6.75N–.05 73.04W–.05 167–6 **¶601700407**
FUNV V 26 04 29 37.7 6.78N 73.09W 175 2.9W
RSNC V 26 04 29 38.8–.75 6.75N 73.11W 151–5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.0km az=138.7.
RSNC Error ellipse: s-maj=3.8km s-min=4.9km az=-1.0.
ISC V 26 07 28 55.8–1.0 6.79N–.05 73.04W–.05 167–6 45 0-150
ISCJB V 26 07 28 56.9–.61 6.83N–.05 73.05W–.05 160–5 3.2b **¶17204487**
IDC V 26 07 28 57.2–5.7 7.16N 74.10W 152–35 3.2,3.0
FUNV V 26 07 28 57.1 6.74N 73.14W 169 3.1W,3.0
RSNC V 26 07 28 59.1–.78 6.78N 73.09W 148–4 2.8L,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.2km az=42.0.
IDC Error ellipse: s-maj=414.9km s-min=37.6km az=92.0.
RSNC Error ellipse: s-maj=3.3km s-min=4.9km az=-1.0.
ISC V 26 12 52 02.0–.95 6.31N–.04 73.56W–.05 126–6 43 0-150
ISCJB V 26 12 52 01.6–.51 6.31N–.04 73.55W–.04 130–5 3.3b **¶17204507**
FUNV V 26 12 52 01.6 6.11N 73.50W 14 2.9W
RSNC V 26 12 52 03.7–.64 6.31N 73.59W 113–4 3.0L
IDC V 26 12 52 04.4–6.2 6.20N 75.39W 117–75 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=42.1.
RSNC Error ellipse: s-maj=2.4km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=171.1km s-min=34.2km az=81.0.
ISC V 27 02 15 13.8–1.4 6.81N–.05 73.08W–.06 164–8 44 0-8
ISCJB V 27 02 15 13.8–.53 6.84N–.05 73.07W–.05 162–5 **¶601700417**
FUNV V 27 02 15 14.2 6.71N 73.17W 164 3.0W
RSNC V 27 02 15 16.4–.93 6.78N 73.09W 148–5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.0km az=40.2.
RSNC Error ellipse: s-maj=4.3km s-min=6.3km az=-1.0.
ISC V 28 23 49 36.4–1.5 6.12N–.05 73.27W–.05 180–10 38 0-7
ISCJB V 28 23 49 36.9–.61 6.13N–.04 73.27W–.05 174–6 **¶601700436**
FUNV V 28 23 49 37.7 5.97N 73.23W 177 3.1W
RSNC V 28 23 49 40.0–.81 6.10N 73.28W 150–9 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.5km az=34.9.
RSNC Error ellipse: s-maj=4.0km s-min=5.7km az=-1.0.
ISC V 29 03 48 24.2–1.5 6.78N–.06 73.05W–.05 163–9 31 0-5
ISCJB V 29 03 48 24.2–.73 6.81N–.05 73.07W–.05 162–6 **¶601700437**
FUNV V 29 03 48 24.7 6.68N 73.11W 160 2.5W
RSNC V 29 03 48 26.3–.76 6.77N 73.09W 150–5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.1km az=135.7.
RSNC Error ellipse: s-maj=3.4km s-min=4.6km az=-1.0.
ISC V 29 19 57 24.2–1.4 6.79N–.05 73.08W–.05 162–9 42 0-8
ISCJB V 29 19 57 24.5–.52 6.79N–.05 73.07W–.05 157–5 **¶601700439**
FUNV V 29 19 57 26.1 6.80N 73.14W 160 3.6W
RSNC V 29 19 57 27.4–1.1 6.77N 73.12W 140–6 3.4L
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.4km az=135.5.
RSNC Error ellipse: s-maj=3.6km s-min=5.6km az=-1.0.
ISC V 30 03 10 41.0–1.5 6.83N–.05 73.05W–.06 167–9 34 0-6
ISCJB V 30 03 10 41.9–.66 6.81N–.05 73.08W–.07 160–6 **¶601700441**
RSNC V 30 03 10 44.6–.51 6.78N 73.12W 145–3 2.6L
FUNV V 30 03 10 46.3 6.95N 72.98W 142 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=5.7km az=34.4.
RSNC Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC V 31 06 28 45.8–1.3 7.44N–.05 73.14W–.05 144–7 43 0-6
ISCJB V 31 06 28 45.8–.53 7.46N–.05 73.14W–.05 140–4 **¶601700449**
FUNV V 31 06 28 47.2 7.40N 73.22W 137 3.0W
RSNC V 31 06 28 48.4–.65 7.41N 73.18W 128–4 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.3km az=44.9.
RSNC Error ellipse: s-maj=3.2km s-min=4.4km az=-1.0.
ISC V 31 11 50 29.1–1.5 6.77N–.06 73.04W–.06 170–9 31 0-6
ISCJB V 31 11 50 29.5–.67 6.76N–.06 73.03W–.06 165–6 **¶601700452**
FUNV V 31 11 50 30.4 6.72N 73.09W 169 2.6W
RSNC V 31 11 50 32.0–.60 6.75N 73.09W 150–4 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=4.8km az=138.8.
RSNC Error ellipse: s-maj=4.1km s-min=4.6km az=-1.0.
ISC VI 01 08 08 42.0–.97 6.82N–.04 73.07W–.05 159–6 3.0b 53 0-74
ISCJB VI 01 08 08 41.6–.41 6.83N–.04 73.07W–.04 159–3 3.1b **¶17204874**
FUNV VI 01 08 08 43.0 6.79N 73.12W 157 3.4W
RSNC VI 01 08 08 44.0–.60 6.79N 73.12W 146–3 3.2L
IDC VI 01 08 08 45.2–2.0 6.95N 73.85W 146–29 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.7km az=38.6.
RSNC Error ellipse: s-maj=2.4km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=23.9km az=1.0.
ISC VI 01 13 50 22.1–1.3 6.89N–.07 72.15W–.04 17–14 29 1-7
ISCJB VI 01 13 50 23.8–1.2 6.94N–.05 72.11W–.04 30–10 **¶603243708**
FUNV VI 01 13 50 25.0 6.92N 72.21W 19 2.9W
RSNC VI 01 13 50 25.1–.81 6.91N 72.23W 8–7 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.8km az=146.1.
RSNC Error ellipse: s-maj=3.5km s-min=5.3km az=-1.0.
ISC VI 02 00 21 41.5–1.5 6.81N–.05 73.02W–.06 180–9 30 0-5
ISCJB VI 02 00 21 43.4–.75 6.78N–.05 73.07W–.06 165–6 **¶602746598**
RSNC VI 02 00 21 45.8–.46 6.76N 73.11W 152–3 2.4L
FUNV VI 02 00 21 48.2 7.05N 72.85W 171 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.5km az=34.8.
RSNC Error ellipse: s-maj=2.0km s-min=3.6km az=-1.0.
ISC VI 02 12 53 57.0–1.4 6.78N–.05 73.03W–.05 165–8 42 0-6
ISCJB VI 02 12 53 57.5–.55 6.82N–.04 73.02W–.05 162–5 **¶603243722**
FUNV VI 02 12 53 57.1 6.62N 73.15W 160 3.1W
RSNC VI 02 12 54 00.7–.87 6.79N 73.14W 141–6 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.3km az=38.3.
RSNC Error ellipse: s-maj=3.3km s-min=6.1km az=-1.0.
ISC VI 03 16 52 51.4–1.5 6.79N–.05 73.03W–.06 162–9 31 0-5
ISCJB VI 03 16 52 52.3–.68 6.82N–.05 73.05W–.06 154–6 **¶603243736**
FUNV VI 03 16 52 54.2 6.85N 73.04W 162 2.6W
RSNC VI 03 16 52 54.3–.91 6.80N 73.11W 144–6 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=5.2km az=40.4.
RSNC Error ellipse: s-maj=4.2km s-min=6.3km az=-1.0.
ISC VI 04 02 44 11.7–.85 6.83N–.04 73.04W–.04 165–6 72 0-150
ISCJB VI 04 02 44 11.2–.38 6.82N–.03 73.03W–.04 165–3 3.0b **¶17205150**
FUNV VI 04 02 44 11.4 6.78N 73.19W 182 3.6W
IDC VI 04 02 44 12.1–.79 6.78N 72.98W 163–8 3.7,3.4
RSNC VI 04 02 44 13.7–.63 6.78N 73.10W 150–3 3.6L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.1km az=41.4.
IDC Error ellipse: s-maj=30.7km s-min=8.2km az=134.0.
RSNC Error ellipse: s-maj=2.3km s-min=3.8km az=-1.0.
ISC VI 04 06 16 49.6–1.4 6.83N–.04 73.08W–.05 168–8 44 0-6
ISCJB VI 04 06 16 50.2–.57 6.81N–.04 73.04W–.05 161–5 **¶603243740**
FUNV VI 04 06 16 51.7 6.84N 73.17W 163 2.9W
RSNC VI 04 06 16 52.6–.60 6.78N 73.09W 147–4 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.1km az=38.6.
RSNC Error ellipse: s-maj=2.4km s-min=4.5km az=-1.0.
ISC VI 05 14 07 34.8–.92 6.88N–.04 73.09W–.05 155–6 47 0-150
ISCJB VI 05 14 07 33.6–.45 6.89N–.04 73.09W–.04 158–5 3.0b **¶17205329**
FUNV VI 05 14 07 34.3 6.81N 73.23W 163 3.1W
RSNC VI 05 14 07 36.4–.92 6.82N 73.14W 144–6 2.9L
IDC VI 05 14 07 41.0–1.5 6.59N 74.93W 175–20 3.1,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.5km az=41.6.
RSNC Error ellipse: s-maj=3.6km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=62.2km s-min=28.1km az=73.0.
ISC VI 07 10 25 02.9–.84 6.83N–.04 72.98W–.05 159–6 3.2b 53 0-150
ISCJB VI 07 10 25 02.4–.41 6.82N–.04 73.06W–.05 161–4 3.1b **¶17205477**
RSNC VI 07 10 25 05.4–.42 6.80N 73.15W 141–3 3.3L
IDC VI 07 10 25 05.0–2.7 6.75N 73.11W 171–24 3.5,3.3
FUNV VI 07 10 25 05.3 6.88N 72.94W 186 3.4W,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=3.9km az=36.3.
RSNC Error ellipse: s-maj=1.7km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=54.5km s-min=30.8km az=98.0.
ISC VI 07 15 49 42.4–.80 6.06N–.05 73.57W–.05 133–6 3.6b 63 1-150
ISCJB VI 07 15 49 41.4–.37 6.03N–.03 73.66W–.04 134–4 3.5b **¶17205495**
IDC VI 07 15 49 43.0–.78 6.08N 73.69W 132–11 3.9,3.7
RSNC VI 07 15 49 44.0–.60 6.02N 73.70W 113–5 3.6L,3.7
FUNV VI 07 15 49 44.0 5.96N 73.64W 132 3.7W,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.7km az=40.3.
IDC Error ellipse: s-maj=38.4km s-min=10.5km az=131.0.
RSNC Error ellipse: s-maj=2.0km s-min=2.8km az=-1.0.
ISC VI 08 19 25 57.3–1.6 6.82N–.06 73.08W–.07 168–9 29 0-6
ISCJB VI 08 19 25 58.4–.81 6.81N–.06 73.07W–.07 158–6 **¶603243774**
FUNV VI 08 19 26 00.7 6.90N 73.12W 160 2.5W
RSNC VI 08 19 26 01.0–.51 6.78N 73.12W 143–5 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.7km az=36.1.
RSNC Error ellipse: s-maj=2.9km s-min=4.6km az=-1.0.
ISC VI 08 20 03 47.9–1.1 6.82N–.04 73.05W–.05 160–6 56 0-150
ISCJB VI 08 20 03 48.3–.52 6.81N–.04 73.06W–.05 154–5 **¶603243775**
FUNV VI 08 20 03 49.9 6.82N 73.10W 161 3.0W
RSNC VI 08 20 03 51.0–1.3 6.78N 73.13W 139–6 3.3L
IDC VI 08 20 03 52.6–7.3 6.41N 75.94W 130–74 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=3.8km az=33.5.
RSNC Error ellipse: s-maj=3.8km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=108.6km s-min=32.4km az=98.0.
ISC VI 09 06 15 53.2–.61 6.29N–.03 73.71W–.04 76–5 4.0b 83 1-150
ISCJB VI 09 06 15 52.6–.31 6.29N–.03 73.72W–.03 87–4 3.7b **¶17205601**
IDC VI 09 06 15 53.2–.54 6.31N 73.71W 74–5 4.0,3.9
FUNV VI 09 06 15 53.2 6.25N 73.72W 12 3.8W,3.9
RSNC VI 09 06 15 54.7–.95 6.27N 73.87W 47–17 4.0L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=30.2.
IDC Error ellipse: s-maj=16.1km s-min=6.8km az=118.0.
RSNC Error ellipse: s-maj=2.6km s-min=3.6km az=-1.0.
ISC VI 09 08 01 48.1–1.5 6.83N–.05 73.09W–.06 159–9 33 0-6
ISCJB VI 09 08 01 48.3–.67 6.86N–.05 73.08W–.06 157–6 **¶603243780**
FUNV VI 09 08 01 49.4 6.78N 73.14W 155 2.6W

RSNC VI 09 08 01 50.9–.59 6.80N 73.12W 141–4 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.2km az=36.4.
RSNC Error ellipse: s-maj=2.6km s-min=5.1km az=-1.0.
ISC VI 11 20 29 29.1–3.3 10.14N–.04 73.03W–.04 15–23 54 1-152
ISCJB VI 11 20 29 27.4–1.1 10.14N–.03 73.02W–.03 5–7 3.6b **¶603243797**
IDC VI 11 20 29 28.7–1.1 10.26N 75.20W 0 4.0,3.9
FUNV VI 11 20 29 28.4 10.14N 73.09W 2 3.6W,3.9
RSNC VI 11 20 29 29.0–.88 10.09N 73.04W 0–8 3.7L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.5km az=147.0.
IDC Error ellipse: s-maj=57.7km s-min=21.1km az=90.0.
RSNC Error ellipse: s-maj=4.4km s-min=4.9km az=-1.0.
ISC VI 12 21 48 40.9–1.7 10.11N–.04 73.08W–.04 110–25 46 1-7
FUNV VI 12 21 48 36.9 10.26N 73.31W 10 3.4W **¶603243800**
ISCJB VI 12 21 48 39.1–.65 10.15N–.04 73.08W–.03 134–10 3.4W
RSNC VI 12 21 48 40.7–.76 10.10N 73.01W 122–19 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=154.5.
RSNC Error ellipse: s-maj=4.2km s-min=4.1km az=-1.0.
ISC VI 13 00 01 40.3–1.4 6.80N–.05 73.06W–.06 166–8 39 0-6
ISCJB VI 13 00 01 41.2–.66 6.80N–.04 73.08W–.06 158–5 **¶603243801**
FUNV VI 13 00 01 42.6 6.82N 73.11W 168 2.6W
RSNC VI 13 00 01 43.5–.56 6.76N 73.10W 147–4 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=4.3km az=30.6.
RSNC Error ellipse: s-maj=2.6km s-min=4.5km az=-1.0.
RSNC VI 13 00 02 23.3–.55 7.36N 73.19W 130–6 2.7L
¶603482767
RSNC Error ellipse: s-maj=3.6km s-min=5.6km az=-1.0.
ISC VI 13 01 52 49.1–1.4 6.82N–.04 73.06W–.05 171–8 43 0-6
ISCJB VI 13 01 52 50.4–.59 6.79N–.04 73.06W–.05 159–5 **¶602746920**
RSNC VI 13 01 52 52.6–.75 6.78N 73.10W 148–5 2.8L
FUNV VI 13 01 52 53.0 6.87N 73.04W 165 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.3km az=32.7.
RSNC Error ellipse: s-maj=3.0km s-min=5.4km az=-1.0.
ISC VI 13 07 34 07.7–1.4 6.83N–.04 73.08W–.05 168–8 44 0-6
ISCJB VI 13 07 34 08.5–.60 6.78N–.04 73.01W–.05 161–5 **¶603243808**
FUNV VI 13 07 34 09.8 6.83N 73.17W 167 3.2W
RSNC VI 13 07 34 11.5–.66 6.77N 73.12W 143–5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.1km az=38.5.
RSNC Error ellipse: s-maj=3.1km s-min=5.3km az=-1.0.
ISC VI 13 13 14 12.3–1.2 7.71N–.03 74.06W–.03 26–9 3.8b 50 1-153
ISCJB VI 13 13 14 14.0–1.1 7.66N–.03 74.09W–.03 33–8 3.8b,3.3s **¶17206051**
RSNC VI 13 13 14 14.6–.97 7.64N 74.00W 16–4 4.0L,3.3s
IDC VI 13 13 14 16.1–2.1 7.54N 74.08W 60–20 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.8km az=29.9.
RSNC Error ellipse: s-maj=2.4km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=15.5km az=81.0.
ISC VI 13 15 54 35.2–1.1 6.81N–.04 73.03W–.05 165–6 51 0-150
ISCJB VI 13 15 54 35.3–.56 6.80N–.04 73.01W–.05 162–5 **¶17206055**
FUNV VI 13 15 54 36.5 6.82N 73.13W 173 2.9W
RSNC VI 13 15 54 38.2–.82 6.76N 73.09W 143–5 2.8L
IDC VI 13 15 54 42.6–6.3 6.60N 74.70W 180–183 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=3.9km az=37.4.
RSNC Error ellipse: s-maj=3.0km s-min=5.4km az=-1.0.
IDC Error ellipse: s-maj=1180.0km s-min=99.9km az=87.0.
ISC VI 13 15 58 19.9–1.4 6.78N–.05 73.02W–.06 164–9 30 0-5
ISCJB VI 13 15 58 19.9–.74 6.79N–.04 73.03W–.06 163–7 **¶603243811**
FUNV VI 13 15 58 20.2 6.68N 73.11W 170 2.4W
RSNC VI 13 15 58 22.9–.66 6.78N 73.11W 144–4 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.5km az=31.6.
RSNC Error ellipse: s-maj=2.4km s-min=5.4km az=-1.0.
ISC VI 14 06 28 59.7–1.0 6.49N–.05 72.97W–.06 195–7 43 0-150
ISCJB VI 14 06 28 59.6–.57 6.50N–.04 72.97W–.05 194–5 2.5b **¶17206091**
FUNV VI 14 06 28 59.1 6.39N 73.14W 204 3.6W
IDC VI 14 06 29 00.4–6.9 6.51N 72.94W 192–45 3.3s,3.3
RSNC VI 14 06 29 02.1–.82 6.46N 73.05W 179–6 3.1L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.7km az=36.7.
IDC Error ellipse: s-maj=109.0km s-min=44.8km az=73.0.
RSNC Error ellipse: s-maj=3.9km s-min=6.9km az=-1.0.
ISC VI 14 17 55 14.0–.43 6.79N–.03 72.97W–.04 161–3 4.7b 755 0-154
ISCJB VI 14 17 55 12.7–.19 6.80N–.02 73.02W–.02 162–1 4.7b **¶16617368**
NEIC VI 14 17 55 13.8–.28 6.76N 72.99W 158–3 4.7b
IDC VI 14 17 55 14.2–.45 6.77N 72.98W 162–4 4.6,4.3
RSNC VI 14 17 55 15.3–1.1 6.79N 73.11W 148–5 4.8L,4.3
FUNV VI 14 17 55 17.4 6.90N 72.87W 166 4.1W,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=141.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=3.0km az=122.0. Felt at Bogota and Los Santos.
IDC Error ellipse: s-maj=10.5km s-min=6.9km az=125.0.
RSNC Error ellipse: s-maj=3.6km s-min=6.0km az=-1.0.
ISC VI 14 19 35 31.2–1.4 6.85N–.04 73.06W–.06 172–9 47 0-8
ISCJB VI 14 19 35 32.6–.54 6.82N–.04 73.02W–.05 158–5 **¶603243820**
FUNV VI 14 19 35 34.6 6.91N 73.12W 168 3.1W
RSNC VI 14 19 35 35.6–.98 6.80N 73.13W 141–6 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=4.0km az=35.4.
RSNC Error ellipse: s-maj=3.4km s-min=6.2km az=-1.0.
ISC VI 15 05 16 27.7–1.5 6.87N–.04 71.93W–.04 23–15 39 1-7
ISCJB VI 15 05 16 25.8–1.4 6.85N–.04 71.85W–.03 10–11 **¶603243823**
FUNV VI 15 05 16 25.7 6.76N 71.98W 6 3.1W
RSNC VI 15 05 16 29.3–.82 6.88N 72.01W 4–7 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.0km az=156.5.
RSNC Error ellipse: s-maj=3.7km s-min=9.7km az=-1.0.
ISC VI 15 08 33 43.3–1.6 9.21N–.04 73.57W–.04 99–20 28 1-4
ISCJB VI 15 08 33 43.7–.75 9.20N–.04 73.56W–.03 92–15 **¶602746994**
FUNV VI 15 08 33 46.3 9.30N 73.57W 57 2.5W
RSNC VI 15 08 33 46.0–.97 9.08N 73.66W 90–12 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.6km az=11.9.
RSNC Error ellipse: s-maj=7.1km s-min=6.1km az=-1.0.
ISC VI 15 09 05 47.0–.75 6.83N–.04 73.02W–.05 164–5 3.2b 61 0-150
ISCJB VI 15 09 05 46.4–.38 6.84N–.04 73.02W–.04 164–3 3.4b **¶17206174**
IDC VI 15 09 05 47.7–1.9 6.71N 72.95W 168–18 3.7,3.4
FUNV VI 15 09 05 48.5 6.85N 73.09W 169 3.2W,3.4
RSNC VI 15 09 05 49.2–1.1 6.78N 73.10W 147–6 3.4L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.0km az=40.2.
IDC Error ellipse: s-maj=28.2km s-min=18.3km az=71.0.
RSNC Error ellipse: s-maj=3.8km s-min=6.7km az=-1.0.
ISC VI 15 11 01 03.3–.95 6.81N–.04 73.06W–.05 157–6 53 0-150
ISCJB VI 15 11 01 03.0–.48 6.83N–.04 73.05W–.05 159–4 3.4b **¶603243829**
FUNV VI 15 11 01 03.4 6.73N 73.21W 158 3.0W
RSNC VI 15 11 01 05.8–.90 6.77N 73.10W 141–5 3.2L
IDC VI 15 11 01 07.1–6.6 6.79N 75.37W 140–92 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.0km az=39.5.
RSNC Error ellipse: s-maj=3.4km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=264.1km s-min=34.5km az=84.0.
ISC VI 16 03 47 04.0–1.3 6.81N–.04 73.07W–.05 165–7 49 0-6
ISCJB VI 16 03 47 04.2–.53 6.81N–.04 73.05W–.04 162–5 **¶603243837**
FUNV VI 16 03 47 04.1 6.72N 73.24W 164 3.0W
RSNC VI 16 03 47 06.7–.79 6.78N 73.11W 147–4 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.5km az=38.7.
RSNC Error ellipse: s-maj=3.1km s-min=5.1km az=-1.0.
ISC VI 18 01 45 43.9–1.3 6.79N–.04 73.04W–.05 167–8 49 0-6
ISCJB VI 18 01 45 44.0–.56 6.81N–.04 73.05W–.05 166–5 **¶603243856**
FUNV VI 18 01 45 44.3 6.67N 73.15W 167 2.5W
RSNC VI 18 01 45 46.7–.47 6.77N 73.11W 150–3 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=3.4km az=32.1.
RSNC Error ellipse: s-maj=2.0km s-min=3.5km az=-1.0.
ISC VI 18 11 09 06.7–1.6 6.76N–.05 73.04W–.06 163–10 27 0-5
ISCJB VI 18 11 09 07.5–.84 6.82N–.05 73.09W–.07 157–7 **¶603243861**
FUNV VI 18 11 09 08.8 6.74N 73.06W 164 2.5W
RSNC VI 18 11 09 10.1–.93 6.78N 73.12W 141–6 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=5.9km az=33.0.
RSNC Error ellipse: s-maj=3.9km s-min=7.0km az=-1.0.
ISC VI 18 13 17 51.3–.87 6.82N–.04 73.04W–.05 158–6 69 0-150
ISCJB VI 18 13 17 50.7–.39 6.82N–.03 73.03W–.04 158–4 3.2b **¶17206463**
FUNV VI 18 13 17 51.4 6.79N 73.20W 167 3.6W
IDC VI 18 13 17 52.3–1.2 6.72N 72.93W 166–13 3.5,3.3
RSNC VI 18 13 17 53.5–.92 6.77N 73.09W 142–5 3.6L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.4km az=38.0.
IDC Error ellipse: s-maj=34.8km s-min=14.3km az=130.0.
RSNC Error ellipse: s-maj=3.3km s-min=6.3km az=-1.0.
ISC VI 18 23 46 57.6–1.4 6.84N–.05 73.07W–.05 158–7 41 0-5
ISCJB VI 18 23 46 58.0–.60 6.84N–.04 73.08W–.05 153–5 **¶603243868**
FUNV VI 18 23 46 58.7 6.85N 73.12W 171 3.1W
RSNC VI 18 23 47 00.4–.57 6.81N 73.14W 140–4 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.3km az=38.8.
RSNC Error ellipse: s-maj=2.7km s-min=4.2km az=-1.0.
ISC VI 19 00 23 01.6–1.6 10.51N–.05 73.11W–.05 124–13 46 1-8
ISCJB VI 19 00 23 01.7–.59 10.50N–.04 73.10W–.03 117–8 **¶603243870**
FUNV VI 19 00 23 03.9 10.54N 73.16W 108 3.5W
RSNC VI 19 00 23 05.3–.31 10.46N 73.14W 56–26 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.1km az=146.7.
RSNC Error ellipse: s-maj=1.9km s-min=1.8km az=-1.0.
ISC VI 19 08 20 49.0–1.4 8.18N–.05 73.63W–.06 101–9 34 0-6
ISCJB VI 19 08 20 48.2–.68 8.19N–.05 73.60W–.05 108–7 **¶603243877**
FUNV VI 19 08 20 48.0 8.19N 73.69W 10 2.8W
RSNC VI 19 08 20 50.9–.80 8.14N 73.67W 88–8 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.7km az=41.8.
RSNC Error ellipse: s-maj=5.0km s-min=5.4km az=-1.0.
RSNC VI 20 11 00 57.6–.90 9.76N 73.42W 0–15 2.0L
¶603731178
RSNC Error ellipse: s-maj=9.4km s-min=8.9km az=-1.0.
ISC VI 22 06 53 54.3–.94 6.82N–.04 73.06W–.04 162–6 59 0-63
ISCJB VI 22 06 53 53.8–.42 6.81N–.03 73.06W–.04 162–4 3.2b **¶17206733**
IDC VI 22 06 53 54.7–1.4 6.79N 73.03W 158–41 3.6,3.4
FUNV VI 22 06 53 55.3 6.81N 73.17W 162 3.2W,3.4
RSNC VI 22 06 53 56.5–.65 6.77N 73.13W 146–3 3.3L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.3km az=41.5.
IDC Error ellipse: s-maj=110.9km s-min=9.2km az=133.0.
RSNC Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC VI 22 08 32 15.9–1.4 6.78N–.04 73.04W–.05 164–8 50 0-8
ISCJB VI 22 08 32 16.4–.52 6.81N–.04 73.03W–.04 158–5 **¶603243903**
FUNV VI 22 08 32 17.2 6.72N 73.14W 163 3.4W
RSNC VI 22 08 32 19.4–.74 6.77N 73.11W 141–4 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.7km az=37.3.
RSNC Error ellipse: s-maj=2.7km s-min=4.7km az=-1.0.
ISC VI 22 09 53 13.0–.94 6.82N–.04 73.05W–.04 165–5 63 0-150
IDC VI 22 09 53 01.9–1.2 6.75N 77.03W 0 4.0,3.9 **¶603243904**
ISCJB VI 22 09 53 12.6–.44 6.84N–.03 73.05W–.04 166–4 3.2b,3.9
FUNV VI 22 09 53 13.0 6.71N 73.21W 166 3.2W,3.9
RSNC VI 22 09 53 15.6–.58 6.79N 73.11W 148–3 3.1L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=39.4km s-min=28.0km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.1km az=38.3.
RSNC Error ellipse: s-maj=2.0km s-min=3.5km az=-1.0.
ISC VI 22 16 51 40.0–.76 6.84N–.04 73.06W–.04 162–5 3.8b 71 0-150
ISCJB VI 22 16 51 39.2–.34 6.85N–.03 73.07W–.03 162–3 3.8b **¶17206766**
IDC VI 22 16 51 40.3–.73 6.73N 72.95W 167–9 4.1,3.9
FUNV VI 22 16 51 40.5 6.82N 73.15W 174 3.5W,3.9
RSNC VI 22 16 51 42.0–1.1 6.78N 73.14W 146–5 4.0L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.2km az=41.9.
IDC Error ellipse: s-maj=26.5km s-min=8.3km az=132.0.
RSNC Error ellipse: s-maj=3.3km s-min=5.2km az=-1.0.
ISC VI 23 22 18 16.6–1.4 6.82N–.05 73.05W–.05 163–8 37 0-5
ISCJB VI 23 22 18 17.5–.59 6.83N–.04 73.04W–.04 155–5 **¶603243909**
FUNV VI 23 22 18 20.0 6.85N 73.05W 159 3.2W
RSNC VI 23 22 18 20.0–.96 6.77N 73.14W 144–6 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.5km az=44.2.
RSNC Error ellipse: s-maj=4.2km s-min=5.9km az=-1.0.
ISC VI 24 15 25 07.3–.76 6.88N–.04 73.02W–.04 159–6 3.4b 85 0-150
ISCJB VI 24 15 25 06.4–.31 6.86N–.03 73.07W–.03 161–3 3.4b **¶17206878**
IDC VI 24 15 25 07.5–.69 6.77N 72.95W 162–9 3.9,3.7
RSNC VI 24 15 25 08.9–.97 6.81N 73.14W 148–4 4.0L,3.7
FUNV VI 24 15 25 08.7 6.86N 73.11W 165 3.7W,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.1km az=41.9.
IDC Error ellipse: s-maj=28.3km s-min=7.5km az=132.0.
RSNC Error ellipse: s-maj=2.8km s-min=4.1km az=-1.0.
ISC VI 24 22 50 25.9–1.6 6.83N–.06 73.08W–.05 169–9 30 0-5
ISCJB VI 24 22 50 27.4–.85 6.80N–.06 73.04W–.05 154–7 **¶603243913**
FUNV VI 24 22 50 28.2 6.93N 73.12W 177 2.3W
RSNC VI 24 22 50 29.9–.93 6.79N 73.13W 141–6 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.3km az=143.6.
RSNC Error ellipse: s-maj=5.2km s-min=6.5km az=-1.0.
ISC VI 25 02 58 13.2–1.4 6.83N–.04 73.07W–.04 161–8 42 0-5
ISCJB VI 25 02 58 13.4–.56 6.83N–.04 73.06W–.04 157–5 **¶603243916**
FUNV VI 25 02 58 15.1 6.87N 73.11W 168 2.4W
RSNC VI 25 02 58 16.2–.85 6.80N 73.13W 139–6 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=136.1.
RSNC Error ellipse: s-maj=2.7km s-min=4.4km az=-1.0.
ISC VI 25 04 35 30.2–1.4 6.79N–.06 73.03W–.06 160–8 34 0-5
ISCJB VI 25 04 35 30.8–.68 6.85N–.06 73.01W–.06 156–6 **¶603243919**
FUNV VI 25 04 35 30.5 6.71N 73.22W 149 2.8W
RSNC VI 25 04 35 33.3–1.0 6.78N 73.10W 142–6 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.5km az=136.6.
RSNC Error ellipse: s-maj=4.8km s-min=7.1km az=-1.0.
ISC VI 26 05 36 26.8–1.4 6.85N–.04 73.10W–.05 161–7 46 0-6
ISCJB VI 26 05 36 27.4–.53 6.82N–.03 73.07W–.04 154–5 **¶602747348**
RSNC VI 26 05 36 29.6–.86 6.79N 73.12W 144–4 3.0L
FUNV VI 26 05 36 29.7 6.97N 73.15W 159 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=33.9.
RSNC Error ellipse: s-maj=2.8km s-min=5.0km az=-1.0.
ISC VI 27 09 15 04.1–1.6 6.84N–.06 73.10W–.08 169–9 27 0-6
ISCJB VI 27 09 15 04.9–.79 6.79N–.07 73.05W–.08 160–6 **¶603243945**

FUNV VI 27 09 15 06.7 6.92N 73.12W 171 2.2W
RSNC VI 27 09 15 07.4–.89 6.76N 73.10W 148–5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.9km az=39.5.
RSNC Error ellipse: s-maj=5.2km s-min=7.8km az=-1.0.
ISC VI 28 09 02 06.2–.77 6.82N–.04 73.06W–.04 161–5 4.1b 76 0-150
ISCJB VI 28 09 02 05.3–.32 6.82N–.03 73.06W–.03 165–3 4.0b **¶17207132**
IDC VI 28 09 02 06.6–.75 6.75N 73.01W 164–10 4.3,4.0
FUNV VI 28 09 02 06.0 6.73N 73.18W 170 3.7W,4.0
RSNC VI 28 09 02 07.8–.74 6.78N 73.12W 150–3 4.0L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.0km az=39.9.
IDC Error ellipse: s-maj=29.5km s-min=8.8km az=132.0.
RSNC Error ellipse: s-maj=2.3km s-min=3.2km az=-1.0.
ISC VI 29 02 23 45.1–.46 6.82N–.03 73.08W–.04 163–4 4.1b 146 0-154
ISCJB VI 29 02 23 44.0–.19 6.80N–.02 73.05W–.02 162–1 4.0b **¶16685974**
FUNV VI 29 02 23 44.1 6.76N 73.25W 167 4.7W
NEIC VI 29 02 23 45.4–.52 6.75N 73.03W 159–6 4.3b
IDC VI 29 02 23 45.5–.46 6.79N 72.95W 167–4 4.0,3.7
RSNC VI 29 02 23 46.2–.78 6.78N 73.15W 151–3 4.6L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=38.1.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.3km az=104.0. Felt at Duitama.
IDC Error ellipse: s-maj=12.1km s-min=6.6km az=128.0.
RSNC Error ellipse: s-maj=2.4km s-min=3.4km az=-1.0.
ISC VI 29 02 33 16.9–1.6 6.81N–.05 73.08W–.07 155–9 25 0-4
ISCJB VI 29 02 33 17.0–.90 6.81N–.05 73.07W–.07 154–7 **¶603243954**
FUNV VI 29 02 33 17.2 6.77N 73.11W 166 2.2W
RSNC VI 29 02 33 19.0–.86 6.80N 73.09W 142–5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=6.0km az=33.5.
RSNC Error ellipse: s-maj=3.4km s-min=6.3km az=-1.0.
ISC VI 29 07 43 25.8–1.4 6.82N–.04 73.08W–.04 166–8 40 0-6
ISCJB VI 29 07 43 26.4–.58 6.80N–.04 73.06W–.04 160–5 **¶602747486**
RSNC VI 29 07 43 28.6–.89 6.78N 73.11W 147–4 2.5L
FUNV VI 29 07 43 29.2 6.91N 73.01W 171 3.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.3km az=38.5.
RSNC Error ellipse: s-maj=2.7km s-min=4.3km az=-1.0.
ISC VI 29 07 54 15.9–1.4 6.82N–.04 73.11W–.05 162–8 39 0-6
ISCJB VI 29 07 54 16.0–.58 6.83N–.04 73.11W–.04 160–5 **¶603243957**
FUNV VI 29 07 54 16.4 6.75N 73.21W 162 3.7W
RSNC VI 29 07 54 18.5–.79 6.79N 73.14W 144–4 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.1km az=37.1.
RSNC Error ellipse: s-maj=2.5km s-min=3.7km az=-1.0.
ISC VI 29 12 23 37.0–1.5 6.84N–.05 73.05W–.06 162–9 28 0-6
ISCJB VI 29 12 23 37.6–.68 6.83N–.05 73.06W–.05 156–6 **¶603243959**
FUNV VI 29 12 23 38.2 6.83N 73.19W 155 2.6W
RSNC VI 29 12 23 40.2–1.2 6.77N 73.12W 145–7 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.2km az=43.9.
RSNC Error ellipse: s-maj=5.2km s-min=7.3km az=-1.0.

(100) Lake Maracaibo.

ISC IV 21 17 54 00.5–1.5 10.87N–.05 71.18W–.04 11–11 21 1-4
ISCJB IV 21 17 53 59.9–1.1 10.84N–.05 71.19W–.03 4–8 **¶601700172**
FUNV IV 21 17 54 00.3 10.86N 71.18W 1 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=160.3.

(101) Venezuela.

ISC I 06 20 50 58.8–1.3 8.52N–.04 71.26W–.03 4–12 25 0-3
FUNV I 06 20 50 59.8 8.43N 71.24W 1 3.1W **¶601699638**
ISC Event type ke.
ISC I 08 17 45 15.2–1.3 10.26N–.03 69.19W–.03 4–11 31 1-7
ISCJB I 08 17 45 15.3–.71 10.24N–.03 69.20W–.02 6–5 **¶601699649**
FUNV I 08 17 45 15.5 10.25N 69.20W 1 3.7W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=11.4.
ISC I 09 05 49 45.3–1.3 8.41N–.04 71.28W–.03 10–11 30 0-6
FUNV I 09 05 49 45.5 8.41N 71.30W 1 3.1W **¶601699663**
ISCJB I 09 05 49 46.6–.93 8.48N–.03 71.21W–.03 10–7 3.1W
ISC Event type ke.
ISCJB Event type ke.
ISC I 22 11 07 03.0–1.4 10.29N–.03 69.69W–.03 2–11 38 0-154
IDC I 22 11 07 02.5–3.0 10.56N 69.93W 0 3.5,3.5 **¶17190738**
ISCJB I 22 11 07 03.2–.65 10.25N–.02 69.71W–.03 4–5 3.1b,3.5
FUNV I 22 11 07 03.7 10.25N 69.71W 2 2.9W,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=125.3km s-min=26.0km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.0km az=31.4.
ISC I 25 23 28 28.4–1.6 8.42N–.06 72.89W–.04 6–13 18 0-5
FUNV I 25 23 28 29.6 8.48N 72.96W 9 2.8W **¶601699748**
RSNC I 25 23 28 30.6–1.0 8.42N 72.97W 0–8 2.2L
ISC Event type ke.
RSNC Error ellipse: s-maj=5.4km s-min=3.5km az=-1.0.
FUNV I 29 17 23 30.8 10.30N 69.19W 3 1.8W
¶601699758
ISC II 01 21 44 09.7–1.3 8.33N–.04 71.99W–.03 5–11 30 1-4
ISCJB II 01 21 44 09.4–.86 8.34N–.04 71.99W–.03 5–6 **¶601699784**
FUNV II 01 21 44 10.0 8.27N 72.03W 5 3.0W
RSNC II 01 21 44 11.2–.87 8.38N 71.98W 4–9 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.6km az=146.0.
RSNC Error ellipse: s-maj=10.2km s-min=4.4km az=-1.0.
ISC II 03 10 49 39.0–1.1 9.55N–.04 69.27W–.02 9–9 41 0-8
ISCJB II 03 10 49 39.0–.66 9.54N–.03 69.26W–.02 10–4 **¶601699789**
FUNV II 03 10 49 39.5 9.57N 69.28W 3 4.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=161.8.
ISC II 08 05 11 39.4–1.1 10.45N–.05 72.43W–.05 19–3 33 0-5
ISCJB II 08 05 11 39.0–.66 10.46N–.05 72.46W–.04 23–5 **¶601699811**
RSNC II 08 05 11 38.0–.54 10.75N 72.42W 100–67 3.2L
FUNV II 08 05 11 39.9 10.46N 72.49W 16 3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=146.8.
RSNC Error ellipse: s-maj=15.8km s-min=6.8km az=-1.0.
ISC II 27 13 55 43.6–1.7 8.29N–.05 71.93W–.04 10–13 36 1-6
FUNV II 27 13 55 42.4 8.21N 72.06W 5 3.8W **¶601699900**
ISCJB II 27 13 55 43.1–1.3 8.27N–.04 71.93W–.03 10–9 3.8W
RSNC II 27 13 55 45.1–1.0 8.27N 71.93W 4–10 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.9km az=148.9.
RSNC Error ellipse: s-maj=7.3km s-min=4.1km az=-1.0.
ISC III 04 07 20 00.1–1.2 8.57N–.03 70.78W–.03 4–10 35 0-5
ISCJB III 04 07 20 00.9–.99 8.56N–.03 70.75W–.03 4–6 **¶601699913**
FUNV III 04 07 20 01.4 8.53N 70.80W 1 3.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=138.3.
ISC III 04 10 50 24.1–.84 8.54N–.04 71.47W–.03 10 27 1-4
FUNV III 04 10 50 24.6 8.40N 71.66W 13 3.5W **¶601699914**
ISCJB III 04 10 50 25.9–.47 8.54N–.04 71.44W–.03 10 3.5W
ISC Event type ke.
ISCJB Event type ke.
ISC III 05 22 50 33.4–1.4 8.57N–.04 71.41W–.04 4–12 23 1-4
FUNV III 05 22 50 35.1 8.46N 71.42W 5 2.9W **¶601699921**
ISC Event type ke.
ISC III 15 18 07 10.3–1.1 9.74N–.03 70.56W–.03 10–11 22 0-5
ISCJB III 15 18 07 09.9–.86 9.74N–.03 70.59W–.03 2–7 **¶601699973**
FUNV III 15 18 07 11.3 9.75N 70.56W 9 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=39.0.
ISC III 19 04 46 11.7–1.2 8.54N–.03 71.46W–.03 5–10 39 0-6
FUNV III 19 04 46 12.6 8.53N 71.49W 5 3.4W **¶601699997**
ISCJB III 19 04 46 12.3–.70 8.55N–.03 71.43W–.03 11–5 3.4W
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 04 45 42.2–2.1 10.58N–.05 72.68W–.05 14–17 25 0-5
ISCJB III 21 04 45 42.2–1.1 10.60N–.05 72.73W–.04 16–10 **¶601700003**
RSNC III 21 04 45 43.0–.47 10.78N 72.76W 119–15 2.7L
FUNV III 21 04 45 44.0 10.71N 72.58W 2 2.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.9km az=142.9.
RSNC Error ellipse: s-maj=4.5km s-min=11.5km az=-1.0.
ISC III 22 22 33 16.1–1.6 7.04N–.07 71.98W–.04 2–13 23 1-5
FUNV III 22 22 33 16.9 6.97N 72.14W 10 2.6W **¶601700008**
RSNC III 22 22 33 19.3–.66 6.96N 72.03W 14–6 2.7L
ISC Event type ke.
RSNC Error ellipse: s-maj=4.0km s-min=4.2km az=-1.0.
ISC III 25 21 05 05.3–1.2 8.74N–.04 71.23W–.03 2–11 32 0-6
FUNV III 25 21 05 06.6 8.73N 71.29W 5 3.0W **¶601700022**
ISC Event type ke.
ISC III 27 13 40 54.0–1.5 9.18N–.03 70.13W–.03 3–13 35 1-6
ISCJB III 27 13 40 53.8–.78 9.16N–.03 70.13W–.03 3–6 **¶601700027**
FUNV III 27 13 40 54.5 9.17N 70.14W 2 3.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.5km az=136.9.
ISC III 31 21 13 25.4–2.0 10.41N–.06 72.55W–.07 150–14 23 0-5
FUNV III 31 21 13 26.9 10.45N 72.60W 148 2.8W **¶601700050**
ISCJB III 31 21 13 26.3–.99 10.37N–.04 72.53W–.06 137–9 2.8W
RSNC III 31 21 13 28.8–.75 10.33N 72.51W 110–31 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.3km az=26.0.
RSNC Error ellipse: s-maj=4.7km s-min=6.9km az=-1.0.
ISC IV 04 00 17 24.2–1.2 8.73N–.04 71.54W–.03 21–5 30 0-6
ISCJB IV 04 00 17 24.5–.55 8.75N–.03 71.50W–.03 24–5 **¶601700066**
FUNV IV 04 00 17 25.0 8.75N 71.54W 16 2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.2km az=142.0.
ISC IV 10 23 07 14.3–1.7 8.42N–.05 72.03W–.05 1–16 30 1-4
ISCJB IV 10 23 07 14.4–1.1 8.40N–.04 72.01W–.03 6–8 **¶601700095**
FUNV IV 10 23 07 15.4 8.39N 72.12W 5 3.1W
RSNC IV 10 23 07 17.9–.96 8.32N 72.09W 8–12 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=147.2.
RSNC Error ellipse: s-maj=9.4km s-min=11.0km az=-1.0.
ISC IV 14 09 34 55.9–1.2 8.08N–.05 72.14W–.04 6–11 28 0-5
ISCJB IV 14 09 34 56.1–1.0 8.12N–.05 72.14W–.04 2–9 **¶601700120**
FUNV IV 14 09 34 57.8 8.01N 72.07W 5 3.1W
RSNC IV 14 09 34 58.4–1.0 8.15N 72.20W 4–11 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.9km az=144.4.
RSNC Error ellipse: s-maj=7.6km s-min=5.6km az=-1.0.
ISC IV 23 01 52 31.9–2.2 10.83N–.09 72.6W–.10 80–12 17 0-5
ISCJB IV 23 01 52 28.8–1.4 10.85N–.07 72.71W–.08 96–10 **¶601700188**
FUNV IV 23 01 52 28.3 10.90N 72.88W 90 2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=8.8km az=43.1.
ISC IV 26 13 03 14.2–1.2 8.62N–.04 71.26W–.03 9–10 22 0-3
ISCJB IV 26 13 03 14.9–.75 8.65N–.03 71.25W–.03 5–5 **¶601700211**
FUNV IV 26 13 03 14.7 8.62N 71.29W 1 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=153.2.
ISC IV 27 14 13 13.5–2.1 9.91N–.07 72.96W–.08 133–16 27 1-5
FUNV IV 27 14 13 11.1 9.95N 73.23W 144 3.1W **¶601700216**
ISCJB IV 27 14 13 12.7–1.0 9.92N–.05 72.95W–.06 139–10 3.1W
RSNC IV 27 14 13 15.0–.55 9.90N 73.04W 127–14 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=5.0km az=41.6.
RSNC Error ellipse: s-maj=7.9km s-min=10.3km az=-1.0.
ISC V 03 17 07 22.1–2.0 10.97N–.07 72.22W–.07 107–14 24 0-5
ISCJB V 03 17 07 22.5–.95 10.96N–.05 72.17W–.05 101–8 **¶601700259**
FUNV V 03 17 07 23.8 10.97N 72.22W 101 2.5W
RSNC V 03 17 07 24.9–.35 10.79N 72.08W 15–17 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.0km az=138.9.
RSNC Error ellipse: s-maj=5.3km s-min=18.9km az=-1.0.
ISC V 09 08 21 24.2–1.4 9.86N–.03 72.84W–.04 3–12 27 1-5
FUNV V 09 08 21 26.3 9.93N 72.86W 4 3.0W **¶601700288**
RSNC V 09 08 21 29.3–.72 9.86N 72.95W 16–15 2.6L
ISC Event type ke.
RSNC Error ellipse: s-maj=6.6km s-min=7.3km az=-1.0.
ISC V 14 11 26 12.0–1.5 9.14N–.04 70.93W–.03 4–13 34 1-7
FUNV V 14 11 26 13.5 9.10N 70.95W 8 3.0W **¶601700317**
ISC Event type ke.
ISC V 14 18 58 09.9–1.6 10.93N–.04 72.55W–.05 5–11 24 0-5
RSNC V 14 18 58 07.6–.38 11.44N 72.66W 124–8 2.7L **¶601700319**
ISCJB V 14 18 58 10.7–1.1 10.89N–.04 72.57W–.04 13–6 2.7L
FUNV V 14 18 58 12.9 10.83N 72.47W 2 2.8W
ISC Event type ke.
RSNC Error ellipse: s-maj=6.5km s-min=4.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=35.9.
ISC VI 04 08 15 05.7–1.3 8.34N–.06 71.30W–.04 10–11 18 0-8
FUNV VI 04 08 15 05.7 8.35N 71.31W 5 2.6W **¶603244282**
ISC Event type ke.
ISC VI 10 16 37 51.1–1.3 9.10N–.03 69.80W–.03 9–10 51 0-7
ISCJB VI 10 16 37 51.9–.68 9.10N–.03 69.79W–.02 22–7 **¶603244405**
FUNV VI 10 16 37 51.8 9.12N 69.83W 5 3.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=153.2.
ISC VI 17 11 21 45.4–1.5 10.38N–.03 70.79W–.03 9–12 33 0-3
ISCJB VI 17 11 21 46.6–.67 10.38N–.03 70.79W–.03 18–6 **¶603244517**
FUNV VI 17 11 21 46.4 10.39N 70.80W 8 2.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=43.9.
ISC VI 19 01 23 06.9–1.1 8.57N–.03 71.42W–.02 6–9 44 0-4
FUNV VI 19 01 23 05.4 8.40N 71.61W 2 3.1W **¶603244547**
ISCJB VI 19 01 23 06.9–.79 8.57N–.03 71.43W–.02 0–5 3.1W
ISC Event type ke.
ISCJB Event type ke.
ISC VI 20 04 36 38.4–.91 8.90N–.04 70.67W–.03 5–6 30 0-3
ISCJB VI 20 04 36 38.2–.51 8.88N–.04 70.68W–.03 8–4 **¶603244560**
FUNV VI 20 04 36 38.5 8.88N 70.69W 2 2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=166.5.
FUNV VI 20 11 00 57.7 10.06N 69.88W 5 1.7W
¶603244564

(731) North of Honduras.

ISC IV 07 20 41 55.3–.28 17.15N–.04 85.19W–.04 35 5.3s,5.2b 916 4-175
IDC IV 07 20 41 50.2–.50 17.19N 85.06W 0 5.2,5.2s **¶16414231**
MOS IV 07 20 41 50.4–1.0 17.17N 85.06W 11 5.4b,5.4s
NEIC IV 07 20 41 51.5–.57 17.11N 85.08W 7–3 5.9W,5.8W
GCMT IV 07 20 41 51.5–.10 17.22N 85.17W 15 5.9W,5.8W
ISCJB IV 07 20 41 53.5–.13 17.17N–.02 85.17W–.02 33 5.3s,5.2b
BJI IV 07 20 41 54.5 17.20N 85.10W 20 5.9s,5.6
NEIC IV 07 20 41 54.0–.00 17.22N 85.09W 19 5.9s,5.6
ISC Event type fe.
IDC Error ellipse: s-maj=17.3km s-min=10.3km az=55.0.
MOS Error ellipse: s-maj=8.3km s-min=4.6km az=103.5.

NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=207.0. Felt [II] at French Harbor and Roatan. Also felt at Arizona, Guanaja, Jose Santos Guardiola, La Ceiba and Sandy Bay. Felt at Dangriga, Belize and at Chetumal, Mexico. Also felt at Santa Ana, El Salvador. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$1.84 $M_{r\theta}$0.18 $M_{\theta\phi}$8.22 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s84.00000°,δ79.00000°,λ2.00000°. NP2: ϕ_s354.00000°,δ88.00000°,λ169.00000°. Principal axes: T 8.6600,Plg9.0000°,Azm308.0000° ; N -0.1600,Plg79.0000°,Azm162.0000°; P -8.5000,Plg6.0000°,Azm39.0000° M_{o}8.60000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c156; s127,c280;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.10 $M_{\theta\theta}$-4.19±.10; $M_{\phi\phi}$3.83±.11; $M_{r\theta}$-0.61±.32; $M_{\theta\phi}$5.93±.08; $M_{\phi r}$3.39±.32; Best double couple: NP1: ϕ_s342.00000°,δ87.00000°,λ154.00000°. NP2:ϕ_s74.00000°,δ64.00000°,λ4.00000°. Principal axes: T 7.9780,Plg20.0000°,Azm295.0000°; N -0.0630,Plg64.0000°,Azm155.0000° ; P -7.9220,Plg15.0000°,Azm31.0000° M_{o}7.95000×10^{17}

ISC	**IV**	**07 21 06 04.0–.29**	**17.34N–.04**	**84.99W–.04**	**10**	**5.0b,4.8s**	**607**	**4-144**
CASC	IV	07 21 05 51.2–3.5	17.81N	83.72W	8	5.0b,4.5L		**¶16414233**
MOS	IV	07 21 06 02.3–.91	17.23N	85.01W	9	5.2b,4.5L		
ISCJB	IV	07 21 06 02.5–.15	17.22N–.02	85.11W–.02	10	4.9b,4.8s		
IDC	IV	07 21 06 02.7–.62	17.32N	84.93W	0	4.8,4.7		
NEIC	IV	07 21 06 03.9–1.4	17.15N	85.08W	8–9	5.0b,4.7		
BJI	IV	07 21 06 04.7	17.20N	85.10W	16	5.6s,5.5b		

ISC Event type fe.
CASC Error ellipse: s-maj=24.7km s-min=34.9km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=4.7km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=41.1.
IDC Error ellipse: s-maj=19.3km s-min=11.1km az=48.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=209.0. Felt at Guanaja.

ISC	**IV**	**07 21 11 33.6–.66**	**17.52N–.09**	**85.0W–.10**	**35**	**4.2b**	**18**	**4-143**
IDC	IV	07 21 11 29.1–2.5	17.53N	85.04W	0	4.2,4.0		**¶16525086**
NEIC	IV	07 21 11 30.5–.35	17.53N	85.03W	10	4.3b,4.0		
ISCJB	IV	07 21 11 31.3–.56	17.52N–.07	85.1W–.10	33	4.1b,4.0		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**IV**	**10 15 19 01.5–1.4**	**16.8N–.30**	**85.6W–.40**	**35**	**3.3b**	**9**	**4-142**
IDC	IV	10 15 18 56.6–2.4	16.69N	85.50W	0	3.9,3.6		**¶17200475**

ISC Event type ke.
IDC Error ellipse: s-maj=97.2km s-min=32.5km az=39.0.

ISC	**IV**	**16 15 14 30.3–.91**	**18.9N–.20**	**80.93W–.09**	**35**	**4.0b**	**18**	**3-147**
IDC	IV	16 15 14 27.2–1.3	19.07N	81.04W	0	4.2,4.2L		**¶17201237**
JSN	IV	16 15 14 29.0–1.2	18.53N	81.11W	50–99	4.5,4.2L		

ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=23.6km az=3.0.
JSN Error ellipse: s-maj=377.7km s-min=999.9km az=-1.0.

IDC	**IV**	**30 04 26 03.0–5.2**	**16.75N**	**85.41W**	**0**	**3.7,3.6L**		
								¶17202433

IDC Error ellipse: s-maj=95.0km s-min=51.5km az=165.0.

ISC	**V**	**05 07 17 18.9–1.4**	**17.1N–.10**	**85.5W–.20**	**28**		**7**	**4-63**
IDC	V	05 07 17 14.7–2.1	17.16N	85.27W	0	4.0L,3.8		**¶17202827**
ISCJB	V	05 07 17 16.9–1.3	17.1N–.10	85.5W–.20	28	3.6b,2.9s		

ISC Event type ke.
ISCJB Event type ke.

IDC	**V**	**27 15 28 35.2–5.9**	**16.03N**	**87.99W**	**0**	**4.0,3.7L**		
								¶17204576

IDC Error ellipse: s-maj=102.7km s-min=54.8km az=116.0.

SEISMIC REGION 8.
Andean South America.

(102) Near west coast of Colombia.

ISC	**I**	**11 11 42 18.7–.79**	**5.66N–.06**	**77.92W–.06**	**25**	**3.4b**	**22**	**1-146**
IDC	I	11 11 42 15.8–1.2	5.71N	77.96W	0	3.9,3.7		**¶17189913**
ISCJB	I	11 11 42 17.1–.59	5.67N–.04	77.94W–.04	25	3.4b,2.8s		
RSNC	I	11 11 42 18.5–1.2	5.62N	77.85W	21–11	3.1L,2.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=32.2km s-min=21.4km az=22.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.8km az=16.6.
RSNC Error ellipse: s-maj=6.2km s-min=10.6km az=-1.0.

(103) Colombia.

RSNC	**I**	**01 13 01 42.0–1.1**	**3.96N**	**76.35W**	**127–9**	**2.6L**	
							¶601906899

RSNC Error ellipse: s-maj=3.1km s-min=3.9km az=-1.0.

RSNC	**I**	**02 09 34 39.3–1.2**	**3.40N**	**76.50W**	**105–10**	**2.6L**	
							¶601906915

RSNC Error ellipse: s-maj=4.2km s-min=5.6km az=-1.0.

RSNC	**I**	**02 13 33 58.3–.95**	**2.01N**	**75.91W**	**1–6**	**2.6L**	
							¶601906920

RSNC Error ellipse: s-maj=4.1km s-min=3.1km az=-1.0.

RSNC	**I**	**03 07 12 28.7–.77**	**5.71N**	**73.95W**	**97–8**	**1.9L**	
							¶601906934

RSNC Error ellipse: s-maj=2.9km s-min=2.7km az=-1.0.

RSNC	**I**	**03 14 05 47.9–1.2**	**2.46N**	**75.57W**	**4–7**	**1.9L**	
							¶601906946

RSNC Error ellipse: s-maj=5.0km s-min=3.9km az=-1.0.

RSNC	**I**	**03 18 13 08.3–.92**	**3.03N**	**75.19W**	**8–7**	**2.1L**	
							¶601906953

RSNC Error ellipse: s-maj=5.4km s-min=4.1km az=-1.0.

RSNC	**I**	**04 02 16 44.5–.76**	**4.54N**	**76.08W**	**0–6**	**2.3L**	
							¶601906967

RSNC Error ellipse: s-maj=3.7km s-min=6.2km az=-1.0.

RSNC	**I**	**04 08 11 03.3–1.3**	**4.59N**	**74.96W**	**6–11**	**1.5L**	
							¶601906976

RSNC Error ellipse: s-maj=3.5km s-min=3.6km az=-1.0.

RSNC	**I**	**04 12 46 10.9–.78**	**3.21N**	**74.71W**	**1–8**	**1.8L**	
							¶601906981

RSNC Error ellipse: s-maj=3.6km s-min=4.6km az=-1.0.

RSNC	**I**	**04 13 23 29.5–1.3**	**3.33N**	**73.85W**	**0–5**	**2.4L**	
							¶601906982

RSNC Error ellipse: s-maj=4.3km s-min=3.1km az=-1.0.

RSNC	**I**	**04 18 28 42.8–.90**	**2.24N**	**74.28W**	**2–7**	**2.5L**	
							¶601906989

RSNC Error ellipse: s-maj=5.5km s-min=3.9km az=-1.0.

RSNC	**I**	**05 04 24 25.1–.78**	**5.89N**	**73.68W**	**118–7**	**2.1L**	
							¶601907010

RSNC Error ellipse: s-maj=3.5km s-min=4.1km az=-1.0.

RSNC	**I**	**05 21 01 45.6–1.5**	**4.51N**	**74.23W**	**0–12**	**1.7L**	
							¶601907030

RSNC Error ellipse: s-maj=10.8km s-min=9.2km az=-1.0.

RSNC	**I**	**06 01 57 11.2–.61**	**2.49N**	**75.43W**	**17–3**	**2.0L**	
							¶601907038

RSNC Error ellipse: s-maj=3.7km s-min=2.7km az=-1.0.

RSNC	**I**	**07 17 27 20.2–.66**	**4.17N**	**73.71W**	**4–8**	**1.7L**	
							¶601907091

RSNC Error ellipse: s-maj=2.7km s-min=4.5km az=-1.0.

RSNC	**I**	**07 21 55 01.6–1.3**	**5.43N**	**73.33W**	**0–9**	**2.4L**	
							¶601907097

RSNC Error ellipse: s-maj=3.6km s-min=5.4km az=-1.0.

RSNC	**I**	**08 04 24 34.2–.66**	**5.26N**	**73.74W**	**139–6**	**1.6L**	
							¶601907108

RSNC Error ellipse: s-maj=3.6km s-min=3.2km az=-1.0.

RSNC	**I**	**08 14 41 29.9–.90**	**5.35N**	**73.21W**	**2–15**	**2.0L**	
							¶601907126

RSNC Error ellipse: s-maj=7.0km s-min=11.8km az=-1.0.

RSNC	**I**	**08 19 14 29.7–1.3**	**5.33N**	**73.16W**	**7–8**	**3.0L**	
							¶601907133

RSNC Error ellipse: s-maj=4.0km s-min=8.9km az=-1.0.

RSNC	**I**	**08 23 22 17.6–1.2**	**4.42N**	**75.15W**	**27–6**	**2.1L**	
							¶601907140

RSNC Error ellipse: s-maj=3.9km s-min=8.1km az=-1.0.

RSNC	**I**	**09 01 46 14.8–.78**	**4.77N**	**76.20W**	**87–8**	**2.5L**	
							¶601907147

RSNC Error ellipse: s-maj=2.5km s-min=4.0km az=-1.0.

RSNC	**I**	**09 22 03 58.4–.55**	**3.62N**	**74.15W**	**29–29**	**1.6L**	
							¶601907173

RSNC Error ellipse: s-maj=23.2km s-min=6.7km az=-1.0.

RSNC	**I**	**11 03 14 26.5–1.0**	**5.90N**	**73.77W**	**106–9**	**2.3L**	
							¶601907203

RSNC Error ellipse: s-maj=3.6km s-min=4.4km az=-1.0.

ISC	**I**	**11 07 09 14.6–.76**	**4.17N–.04**	**76.48W–.04**	**129–7**	**3.7b**	**37**	**1-146**
ISCJB	I	11 07 09 13.8–.41	4.16N–.04	76.48W–.03	134–4	3.6b		**¶17189905**
RSNC	I	11 07 09 15.7–1.2	4.16N	76.45W	119–8	3.9L		
IDC	I	11 07 09 17.8–1.9	4.24N	76.31W	157–15	4.0,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.9km az=139.8.
RSNC Error ellipse: s-maj=3.4km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=26.0km s-min=16.8km az=37.0.

RSNC	**I**	**12 20 51 26.1–.85**	**4.92N**	**74.78W**	**18–6**	**2.0L**		
								¶601907242

RSNC Error ellipse: s-maj=4.3km s-min=3.2km az=-1.0.

RSNC	**I**	**13 05 58 02.8–.99**	**5.64N**	**73.69W**	**128–8**	**2.5L**	
							¶601907248

RSNC Error ellipse: s-maj=3.8km s-min=3.8km az=-1.0.

RSNC	**I**	**13 07 00 37.6–1.1**	**4.61N**	**75.96W**	**12–7**	**3.1L**	
							¶601907251

RSNC Error ellipse: s-maj=3.4km s-min=4.6km az=-1.0.

RSNC	**I**	**14 00 28 10.7–1.1**	**3.81N**	**76.21W**	**117–11**	**1.9L**	
							¶601907273

RSNC Error ellipse: s-maj=5.2km s-min=8.1km az=-1.0.

RSNC	**I**	**14 13 01 44.8–.93**	**3.19N**	**74.52W**	**2–7**	**2.1L**	
							¶601907289

RSNC Error ellipse: s-maj=6.0km s-min=3.0km az=-1.0.

RSNC	**I**	**14 18 39 53.4–1.1**	**2.78N**	**74.94W**	**13–5**	**3.5L**	
							¶601907292

RSNC Error ellipse: s-maj=6.4km s-min=3.5km az=-1.0.

RSNC	**I**	**16 02 19 02.8–.71**	**4.38N**	**73.70W**	**4–6**	**1.4L**	
							¶601907316

RSNC Error ellipse: s-maj=2.2km s-min=7.2km az=-1.0.

RSNC	**I**	**16 02 40 03.0–.78**	**3.31N**	**74.47W**	**8–10**	**1.6L**	
							¶601907317

RSNC Error ellipse: s-maj=4.8km s-min=4.4km az=-1.0.

RSNC	**I**	**16 03 22 16.4–.50**	**3.51N**	**74.16W**	**21–11**	**1.3L**	
							¶601907319

RSNC Error ellipse: s-maj=7.1km s-min=5.1km az=-1.0.

RSNC	**I**	**16 08 27 56.6–1.1**	**4.74N**	**73.56W**	**13–7**	**1.5L**	
							¶601907327

RSNC Error ellipse: s-maj=4.5km s-min=5.9km az=-1.0.

RSNC	**I**	**17 00 02 43.5–1.2**	**5.31N**	**72.76W**	**3–11**	**1.2L**	
							¶601907342

RSNC Error ellipse: s-maj=5.3km s-min=4.2km az=-1.0.

RSNC	**I**	**19 23 26 52.9–1.0**	**3.53N**	**76.53W**	**0–8**	**1.6L**	
							¶601907410

RSNC Error ellipse: s-maj=5.5km s-min=8.0km az=-1.0.

RSNC	**I**	**21 12 13 12.2–.45**	**2.48N**	**75.75W**	**4–14**	**1.3L**	
							¶601907452

RSNC Error ellipse: s-maj=6.1km s-min=15.2km az=-1.0.

ISC	**I**	**21 12 14 33.2–1.2**	**5.74N–.04**	**76.55W–.04**	**42–12**	**3.5b**	**30**	**1-147**
RSNC	I	21 12 14 31.4–.98	5.71N	76.50W	6–5	3.5L		**¶17190677**
ISCJB	I	21 12 14 32.4–.48	5.74N–.04	76.53W–.03	52–7	3.5s,3.5b		
IDC	I	21 12 14 35.9–3.0	5.73N	76.44W	71–28	3.6,3.6		

ISC Event type ke.
RSNC Error ellipse: s-maj=2.9km s-min=2.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.6km az=19.9.
IDC Error ellipse: s-maj=27.6km s-min=21.9km az=33.0.

RSNC	**I**	**21 12 36 00.8–.82**	**5.05N**	**73.32W**	**0–12**	**1.4L**	
							¶601907454

RSNC Error ellipse: s-maj=6.3km s-min=9.9km az=-1.0.

RSNC	**I**	**21 15 49 37.8–.52**	**3.44N**	**74.46W**	**4–5**	**1.6L**	
							¶601907457

RSNC Error ellipse: s-maj=9.4km s-min=6.8km az=-1.0.

RSNC	**I**	**21 18 53 38.7–1.2**	**2.61N**	**75.72W**	**7–7**	**2.3L**	
							¶601907462

RSNC Error ellipse: s-maj=3.9km s-min=2.5km az=-1.0.

RSNC	**I**	**22 06 25 33.2–.94**	**4.62N**	**75.16W**	**0–10**	**1.7L**	
							¶601907475

RSNC Error ellipse: s-maj=8.8km s-min=4.7km az=-1.0.

RSNC	**I**	**22 14 29 31.4–1.4**	**3.37N**	**74.37W**	**11–24**	**1.7L**	
							¶601907488

RSNC Error ellipse: s-maj=12.1km s-min=11.3km az=-1.0.

RSNC	**I**	**22 15 05 55.9–.76**	**5.90N**	**73.55W**	**126–9**	**1.6L**	
							¶601907489

RSNC Error ellipse: s-maj=7.3km s-min=5.6km az=-1.0.

RSNC	**I**	**22 16 21 21.5–1.6**	**2.59N**	**75.96W**	**4–9**	**2.2L**	
							¶601907491

RSNC Error ellipse: s-maj=4.9km s-min=5.6km az=-1.0.

RSNC	**I**	**23 02 35 40.8–.97**	**3.15N**	**75.37W**	**32–25**	**1.2L**	
							¶601907498

RSNC Error ellipse: s-maj=30.7km s-min=11.6km az=-1.0.

ISC	**I**	**23 07 50 57.5–.79**	**5.25N–.04**	**76.25W–.04**	**103–8**	**4.2b**	**42**	**1-147**
ISCJB	I	23 07 50 57.1–.39	5.27N–.04	76.26W–.03	118–4	4.1b		**¶16135583**
NEIC	I	23 07 50 58.3–.92	5.23N	76.18W	110–10	4.5b		
RSNC	I	23 07 51 01.0–1.0	5.21N	76.26W	26–8	3.4L		
IDC	I	23 07 51 03.6–2.0	5.33N	75.62W	154–18	4.2,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.3km az=29.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=12.0km az=56.0.
RSNC Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=14.6km az=76.0.

RSNC	**I**	**23 17 09 51.7–.84**	**3.36N**	**74.41W**	**4–11**	**1.9L**	
							¶601907522

RSNC Error ellipse: s-maj=5.0km s-min=4.8km az=-1.0.

RSNC	**I**	**23 18 02 55.8–.95**	**1.91N**	**75.98W**	**9–6**	**2.3L**	
							¶601907524

RSNC Error ellipse: s-maj=3.9km s-min=3.2km az=-1.0.

RSNC	**I**	**23 21 38 21.7–.33**	**5.23N**	**73.72W**	**147–4**	**1.7L**	
							¶601907526

RSNC Error ellipse: s-maj=2.6km s-min=3.2km az=-1.0.

RSNC	**I**	**24 18 43 20.8–.72**	**5.41N**	**73.77W**	**135–5**	**2.8L**	
							¶601907541

RSNC Error ellipse: s-maj=2.4km s-min=2.8km az=-1.0.

RSNC	**I**	**24 21 31 11.5–.44**	**3.08N**	**75.61W**	**32–11**	**1.9L**	
							¶601907543

RSNC Error ellipse: s-maj=5.1km s-min=3.3km az=-1.0.

RSNC	**I**	**25 22 46 49.1–.50**	**4.34N**	**75.22W**	**6–12**	**1.7L**	
							¶601907569

RSNC Error ellipse: s-maj=5.3km s-min=5.7km az=-1.0.

RSNC	**I**	**26 14 40 23.8–1.1**	**4.11N**	**74.98W**	**11–11**	**2.2L**	
							¶601907586

RSNC Error ellipse: s-maj=5.7km s-min=3.9km az=-1.0.

RSNC	**I**	**27 05 26 29.0–1.2**	**4.39N**	**73.67W**	**3–8**	**2.2L**	
							¶601907605

RSNC Error ellipse: s-maj=3.0km s-min=9.8km az=-1.0.

RSNC	**I**	**27 06 50 30.3–.84**	**4.38N**	**73.67W**	**4–9**	**1.9L**	
							¶601907609

RSNC Error ellipse: s-maj=2.6km s-min=7.2km az=-1.0.

ISC	**I**	**27 13 12 30.5–.82**	**3.88N–.05**	**76.14W–.05**	**166–7**	**3.3b**	**33**	**1-146**	
ISCJB	I	27 13 12 29.9–.46	3.88N–.04	76.15W–.05	174–5	3.1b			¶17191110
RSNC	I	27 13 12 31.8–.83	3.88N	76.13W	157–5	3.4L			
IDC	I	27 13 12 33.3–2.0	3.91N	75.82W	197–17	3.4,3.2			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=5.3km az=40.0.								
RSNC	Error ellipse: s-maj=2.6km s-min=3.6km az=-1.0.								
IDC	Error ellipse: s-maj=35.9km s-min=23.6km az=41.0.								
ISC	**I**	**27 14 06 47.1–1.1**	**4.36N–.03**	**73.75W–.04**	**4–7**	**3.7b,3.2s**	**39**	**0-149**	
IDC	I	27 14 06 45.8–.96	4.26N	73.70W	0	4.0,3.8			¶15979824
ISCJB	I	27 14 06 46.9–.62	4.36N–.03	73.68W–.04	10–4	3.5b,3.1s			
RSNC	I	27 14 06 47.4–1.3	4.37N	73.68W	4–6	4.0L,3.1s			
NEIC	I	27 14 06 47.0	4.39N	73.68W	4	3.9L,3.1s			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=21.9km s-min=10.5km az=36.0.								
ISCJB	Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=164.1.								
RSNC	Error ellipse: s-maj=2.9km s-min=5.3km az=-1.0.								
NEIC	Event type fe. Felt at Bogota, Fomeque, Quetame and Villavicencio. After RSNC.								
RSNC	**I**	**27 14 16 54.5–1.1**	**4.39N**	**73.68W**	**0–8**	**2.2L**			
									¶601907622
RSNC	Error ellipse: s-maj=6.2km s-min=12.7km az=-1.0.								
RSNC	**I**	**27 14 46 50.0–.89**	**4.37N**	**73.75W**	**3–9**	**1.4L**			
									¶601907623
RSNC	Error ellipse: s-maj=2.9km s-min=10.3km az=-1.0.								
RSNC	**I**	**27 15 14 36.0–1.1**	**4.38N**	**73.70W**	**0–10**	**1.7L**			
									¶601907625
RSNC	Error ellipse: s-maj=3.6km s-min=12.3km az=-1.0.								
RSNC	**I**	**27 16 08 30.8–1.3**	**4.38N**	**73.67W**	**4–17**	**1.6L**			
									¶601907627
RSNC	Error ellipse: s-maj=4.5km s-min=21.0km az=-1.0.								
RSNC	**I**	**27 16 41 23.0–1.3**	**4.40N**	**73.68W**	**3–11**	**1.8L**			
									¶601907628
RSNC	Error ellipse: s-maj=4.5km s-min=14.4km az=-1.0.								
RSNC	**I**	**28 06 57 54.5–.77**	**3.02N**	**74.67W**	**21–32**	**1.7L**			
									¶601907650
RSNC	Error ellipse: s-maj=9.2km s-min=18.2km az=-1.0.								
RSNC	**I**	**28 15 01 58.6–1.2**	**4.40N**	**73.66W**	**4–19**	**1.6L**			
									¶601907664
RSNC	Error ellipse: s-maj=5.1km s-min=22.0km az=-1.0.								
RSNC	**I**	**28 15 03 45.7–1.1**	**4.41N**	**73.63W**	**4–13**	**2.0L**			
									¶601907665
RSNC	Error ellipse: s-maj=5.2km s-min=22.1km az=-1.0.								
RSNC	**I**	**28 17 49 28.1–1.4**	**5.51N**	**73.85W**	**120–22**	**2.4L**			
									¶601907669
RSNC	Error ellipse: s-maj=7.2km s-min=6.9km az=-1.0.								
RSNC	**I**	**28 22 21 10.7–1.1**	**5.63N**	**73.65W**	**4–14**	**1.1L**			
									¶601907673
RSNC	Error ellipse: s-maj=8.6km s-min=7.6km az=-1.0.								
ISC	**I**	**29 00 05 16.5–.60**	**4.85N–.04**	**76.06W–.04**	**119–5**	**4.5b**	**363**	**1-156**	
ISCJB	I	29 00 05 15.9–.26	4.88N–.03	76.05W–.03	126–2	4.5b			¶15979843
NEIC	I	29 00 05 16.8–.50	4.79N	76.00W	122–5	4.5b			
RSNC	I	29 00 05 17.6–1.4	4.87N	76.11W	108–10	4.3L			
IDC	I	29 00 05 19.7–.91	4.91N	75.90W	150–8	4.2s,4.2			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=137.3.								
NEIC	Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=50.0.								
RSNC	Error ellipse: s-maj=4.3km s-min=5.6km az=-1.0.								
IDC	Error ellipse: s-maj=15.0km s-min=9.1km az=53.0.								
RSNC	**I**	**29 04 21 23.9–1.3**	**4.37N**	**73.64W**	**4–11**	**1.5L**			
									¶601907686
RSNC	Error ellipse: s-maj=3.9km s-min=15.2km az=-1.0.								
RSNC	**I**	**29 08 13 50.9–.78**	**4.40N**	**73.64W**	**3–9**				
									¶601907691
RSNC	Error ellipse: s-maj=3.6km s-min=14.7km az=-1.0.								
RSNC	**I**	**29 09 34 13.0–1.3**	**4.00N**	**74.07W**	**3–9**	**1.8L**			
									¶601907695
RSNC	Error ellipse: s-maj=3.8km s-min=5.3km az=-1.0.								
RSNC	**I**	**29 20 59 01.6–.64**	**4.69N**	**75.16W**	**4–6**	**1.7L**			
									¶601907700
RSNC	Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.								
RSNC	**I**	**29 21 47 55.5–1.1**	**3.73N**	**74.21W**	**7–9**	**1.7L**			
									¶601907702
RSNC	Error ellipse: s-maj=3.8km s-min=5.4km az=-1.0.								
RSNC	**I**	**29 22 13 19.5–.85**	**3.65N**	**74.07W**	**4–6**	**1.9L**			
									¶601907703
RSNC	Error ellipse: s-maj=2.7km s-min=4.6km az=-1.0.								
RSNC	**I**	**30 00 44 23.1–1.1**	**4.38N**	**73.65W**	**5–9**	**2.2L**			
									¶601907708
RSNC	Error ellipse: s-maj=3.3km s-min=9.7km az=-1.0.								
RSNC	**I**	**30 06 40 00.4–.61**	**2.84N**	**74.80W**	**8–12**	**1.6L**			
									¶601907720
RSNC	Error ellipse: s-maj=5.9km s-min=6.0km az=-1.0.								
RSNC	**I**	**30 08 17 13.9–1.5**	**4.22N**	**73.55W**	**8–8**	**1.8L**			
									¶601907723
RSNC	Error ellipse: s-maj=4.2km s-min=13.5km az=-1.0.								
RSNC	**I**	**30 08 41 01.7–1.6**	**4.17N**	**73.71W**	**4–10**	**1.6L**			
									¶601907724
RSNC	Error ellipse: s-maj=4.1km s-min=5.7km az=-1.0.								
RSNC	**I**	**30 10 56 05.8–.98**	**3.73N**	**72.84W**	**0–11**	**2.0L**			
									¶601907727
RSNC	Error ellipse: s-maj=7.4km s-min=7.6km az=-1.0.								
ISC	**I**	**31 07 13 40.7–.45**	**3.97N–.04**	**76.53W–.03**	**81–3**	**4.9b**	**747**	**1-157**	
ISCJB	I	31 07 13 40.4–.28	4.01N–.02	76.52W–.02	91–2	4.8b			¶15981606
IDC	I	31 07 13 40.5–.61	4.00N	76.53W	80–4	4.6,4.5			
RSNC	I	31 07 13 41.8–1.5	4.03N	76.57W	71–10	4.6L,4.5			
NEIC	I	31 07 13 42.6–.39	3.94N	76.40W	98–3	4.9b,4.5			
ISC	Event type fe.								
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=172.4.								
IDC	Error ellipse: s-maj=10.1km s-min=7.9km az=10.0.								
RSNC	Error ellipse: s-maj=3.9km s-min=4.2km az=-1.0.								
NEIC	Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=225.0. Felt [IV] at Cali. Also felt at Candelaria, Darien, Jamundi, Pereira, Tulua and Yumbo.								
ISC	**I**	**31 10 23 46.6–.72**	**5.63N–.04**	**73.56W–.04**	**159–5**	**3.5b**	**52**	**1-149**	
FUNV	I	31 10 23 44.9	5.39N	73.74W	146	3.6W			¶17191399
ISCJB	I	31 10 23 45.9–.37	5.65N–.03	73.56W–.03	161–3	3.4b			
IDC	I	31 10 23 46.6–.66	5.64N	73.50W	156–5	3.7,3.5			
RSNC	I	31 10 23 48.4–.92	5.61N	73.62W	145–6	3.8L,3.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.3km s-min=4.0km az=35.0.								
IDC	Error ellipse: s-maj=16.8km s-min=10.3km az=123.0.								
RSNC	Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.								
ISC	**I**	**31 10 42 53.6–1.8**	**5.25N–.06**	**73.66W–.05**	**178–12**		**27**	**1-7**	
FUNV	I	31 10 42 57.0	5.43N	73.74W	206	3.1W			¶601699774
RSNC	I	31 10 42 58.7–.87	5.26N	73.75W	141–6	3.0L			
ISC	Event type ke.								
RSNC	Error ellipse: s-maj=3.8km s-min=3.2km az=-1.0.								
RSNC	**I**	**31 21 57 30.8–1.4**	**3.67N**	**72.78W**	**0–12**	**2.2L**			
									¶601907759
RSNC	Error ellipse: s-maj=9.5km s-min=8.9km az=-1.0.								
ISC	**II**	**05 15 47 19.6–1.6**	**5.26N–.05**	**73.71W–.05**	**159–10**		**37**	**1-7**	
FUNV	II	05 15 47 19.3	5.01N	73.76W	160	3.6W			¶601699798
ISCJB	II	05 15 47 20.8–.74	5.30N–.04	73.71W–.04	150–7	3.6W			
RSNC	II	05 15 47 23.2–1.0	5.28N	73.75W	134–7	3.2L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.6km s-min=5.2km az=40.5.								
RSNC	Error ellipse: s-maj=4.0km s-min=3.0km az=-1.0.								
ISC	**II**	**05 16 58 39.6–.97**	**3.66N–.06**	**76.90W–.06**	**100**	**3.7b**	**19**	**1-144**	
ISCJB	II	05 16 58 39.5–.60	3.65N–.05	76.94W–.06	100	3.6b			¶17191752
RSNC	II	05 16 58 41.3–.81	3.64N	76.82W	93–5	3.2L			
IDC	II	05 16 58 43.3–4.2	3.85N	76.78W	137–32	4.2s,4.2			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.9km s-min=6.9km az=18.9.								
RSNC	Error ellipse: s-maj=3.1km s-min=4.7km az=-1.0.								
IDC	Error ellipse: s-maj=45.9km s-min=33.4km az=29.0.								
ISC	**II**	**08 10 02 50.0–1.4**	**2.54N–.08**	**75.07W–.05**	**28–10**	**3.4b**	**28**	**0-146**	
IDC	II	08 10 02 44.6–1.6	2.40N	75.13W	0	3.7,3.6			¶17191892
ISCJB	II	08 10 02 51.4–1.2	2.65N–.08	75.18W–.06	20–12	3.2b,3.1s			
RSNC	II	08 10 02 51.5–.91	2.75N	75.15W	0–5	4.2L,3.1s			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=39.9km s-min=27.7km az=120.0.								
ISCJB	Event type ke. Error ellipse: s-maj=14.0km s-min=9.2km az=151.6.								
RSNC	Error ellipse: s-maj=4.7km s-min=3.2km az=-1.0.								
RSNC	**II**	**11 02 14 53.8–1.0**	**4.38N**	**76.67W**	**10–6**	**2.7L**			
									¶602351241
RSNC	Error ellipse: s-maj=3.6km s-min=3.9km az=-1.0.								
RSNC	**II**	**11 08 52 35.9–.59**	**5.98N**	**73.72W**	**110–8**	**1.5L**			
									¶602351254
RSNC	Error ellipse: s-maj=3.3km s-min=3.7km az=-1.0.								
ISC	**II**	**15 06 51 44.7–1.4**	**2.70N–.10**	**73.28W–.07**	**10**		**16**	**1-146**	
IDC	II	15 06 51 42.6–2.2	2.66N	73.11W	0	3.6,3.5			¶17192288
ISCJB	II	15 06 51 43.2–1.3	2.60N–.08	73.33W–.07	10	3.4b,3.5			
RSNC	II	15 06 51 44.9–.95	2.66N	73.32W	4–9	3.1L,3.5			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=47.2km s-min=25.7km az=106.0.								
ISCJB	Event type ke. Error ellipse: s-maj=13.6km s-min=6.1km az=37.0.								
RSNC	Error ellipse: s-maj=8.5km s-min=6.8km az=-1.0.								
ISC	**II**	**15 06 57 37.8–.90**	**2.83N–.06**	**73.10W–.06**	**10**		**19**	**1-148**	
IDC	II	15 06 57 32.6–1.6	2.49N	73.23W	0	4.0,3.8			¶17192289
ISCJB	II	15 06 57 38.4–.62	2.85N–.04	73.08W–.04	10	3.4b,3.8			
RSNC	II	15 06 57 38.6–.75	2.87N	73.08W	0–5	3.5L,3.8			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=41.9km s-min=23.2km az=103.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=4.8km az=39.9.								
RSNC	Error ellipse: s-maj=3.7km s-min=4.2km az=-1.0.								
ISC	**II**	**21 11 31 24.5–.53**	**4.71N–.04**	**76.73W–.04**	**85–5**	**4.4b**	**67**	**1-157**	
ISCJB	II	21 11 31 23.6–.35	4.70N–.03	76.75W–.03	91–4	4.4b			¶16398663
IDC	II	21 11 31 23.1–.61	4.51N	76.73W	81–5	4.5,4.4			
RSNC	II	21 11 31 24.9–1.2	4.73N	76.74W	78–14	4.4L,4.4			
NEIC	II	21 11 31 24.3–.77	4.61N	76.76W	91–8	4.6b,4.4			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=5.7km s-min=5.1km az=42.2.								
IDC	Error ellipse: s-maj=17.9km s-min=11.1km az=50.0.								
RSNC	Error ellipse: s-maj=3.5km s-min=4.2km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=9.9km s-min=7.6km az=64.0.								
RSNC	**III**	**09 08 58 17.9–.77**	**4.41N**	**73.61W**	**18–19**	**1.7L**			
									¶602351927
RSNC	Error ellipse: s-maj=5.2km s-min=23.4km az=-1.0.								
ISC	**III**	**16 08 09 46.1–1.4**	**5.48N–.03**	**73.08W–.03**	**2–11**		**43**	**0-7**	
ISCJB	III	16 08 09 47.5–.88	5.52N–.03	73.04W–.03	9–6				¶601699978
RSNC	III	16 08 09 48.3–.84	5.53N	73.09W	0–5	3.1L			
FUNV	III	16 08 09 48.6	5.26N	72.94W	8	2.8W			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=3.4km az=38.2.								
RSNC	Error ellipse: s-maj=2.5km s-min=2.5km az=-1.0.								
RSNC	**III**	**17 05 37 18.5–1.0**	**4.43N**	**73.57W**	**0–13**	**3.5L**			
									¶602352118
RSNC	Error ellipse: s-maj=3.5km s-min=16.2km az=-1.0.								
ISC	**III**	**20 13 39 58.2–.60**	**4.81N–.04**	**76.15W–.04**	**119–5**	**4.6b**	**546**	**1-156**	
CASC	III	20 13 39 57.1–1.7	5.07N	76.39W	0–18	4.6b			¶16341347
ISCJB	III	20 13 39 57.5–.27	4.91N–.03	76.14W–.02	125–2	4.7b			
RSNC	III	20 13 39 58.8–1.1	4.89N	76.28W	96–9	4.4L			
BJI	III	20 13 39 59.3	4.90N	76.10W	129	4.4L			
NEIC	III	20 13 39 59.6–.56	4.88N	76.05W	132–5	4.6b			
IDC	III	20 13 40 00.4–.98	4.89N	76.06W	137–8	4.6,4.3			
ISC	Event type fe.								
CASC	Error ellipse: s-maj=37.0km s-min=16.2km az=-1.0.								
ISCJB	Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=35.7.								
RSNC	Error ellipse: s-maj=3.7km s-min=5.9km az=-1.0.								
NEIC	Event type fe. Error ellipse: s-maj=5.8km s-min=3.6km az=48.0. Felt [III] at Pereira. Also felt at Armenia, Cali and Manizales.								
IDC	Error ellipse: s-maj=12.9km s-min=8.6km az=51.0.								
ISC	**IV**	**05 06 42 49.1–.89**	**5.46N–.04**	**74.16W–.04**	**64–9**	**3.2b**	**28**	**1-149**	
ISCJB	IV	05 06 42 48.6–.41	5.47N–.04	74.14W–.04	72–5	3.2b			¶17199862
IDC	IV	05 06 42 48.5–.99	5.49N	74.14W	59–8	3.5,3.3			
RSNC	IV	05 06 42 49.9–1.0	5.46N	74.15W	27–9	3.6L,3.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.6km s-min=5.6km az=32.4.								
IDC	Error ellipse: s-maj=24.2km s-min=12.0km az=119.0.								
RSNC	Error ellipse: s-maj=3.8km s-min=3.1km az=-1.0.								
ISC	**IV**	**10 21 14 46.1–1.3**	**5.25N–.05**	**73.71W–.05**	**153–9**		**28**	**1-75**	
ISCJB	IV	10 21 14 47.2–.71	5.31N–.04	73.70W–.05	140–7	3.3b			¶17200503
IDC	IV	10 21 14 47.5–.81	5.75N	74.09W	131–10	3.8,3.5			
RSNC	IV	10 21 14 47.6–1.2	5.28N	73.73W	143–9	3.4L,3.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=6.1km az=36.9.								
IDC	Error ellipse: s-maj=34.7km s-min=13.3km az=133.0.								
RSNC	Error ellipse: s-maj=4.2km s-min=4.5km az=-1.0.								
ISC	**IV**	**11 10 44 25.9–1.4**	**5.87N–.03**	**73.38W–.04**	**1–11**		**32**	**1-6**	
FUNV	IV	11 10 44 25.2	5.47N	73.28W	2	3.6W			¶601700098
RSNC	IV	11 10 44 27.7–1.3	5.89N	73.38W	4–6	3.5L			
ISC	Event type ke.								
RSNC	Error ellipse: s-maj=2.8km s-min=3.9km az=-1.0.								
ISC	**IV**	**19 13 23 10.0–1.7**	**4.31N–.04**	**73.79W–.06**	**0–12**		**18**	**0-149**	
ISCJB	IV	19 13 23 10.2–1.0	4.33N–.04	73.71W–.05	6–6	3.3b			¶17201506
IDC	IV	19 13 23 11.7–6.1	4.26N	73.85W	19–37	3.7,3.7			
RSNC	IV	19 13 23 11.1–1.1	4.37N	73.67W	4–9	3.5L,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.0km s-min=6.1km az=171.2.								
IDC	Error ellipse: s-maj=33.6km s-min=25.4km az=42.0.								
RSNC	Error ellipse: s-maj=3.3km s-min=9.7km az=-1.0.								
ISC	**IV**	**21 07 02 54.6–.79**	**4.15N–.05**	**76.30W–.04**	**153–7**	**3.6b**	**51**	**1-145**	
ISCJB	IV	21 07 02 54.2–.35	4.12N–.04	76.29W–.03	161–4	3.6b			¶17201689
IDC	IV	21 07 02 54.7–2.7	4.05N	76.34W	155–20	3.9,3.5			
RSNC	IV	21 07 02 57.1–1.5	4.13N	76.26W	130–10	3.8L,3.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.4km az=139.6.								
IDC	Error ellipse: s-maj=32.6km s-min=19.6km az=60.0.								
RSNC	Error ellipse: s-maj=4.5km s-min=5.8km az=-1.0.								
ISC	**V**	**01 01 28 51.4–1.3**	**2.41N–.05**	**75.43W–.06**	**11–9**		**13**	**0-77**	
IDC	V	01 01 28 45.2–5.5	5.01N	77.34W	0	3.4,3.3			¶602744659
ISCJB	V	01 01 28 51.1–1.1	2.44N–.05	75.37W–.07	15–13	3.2b,3.3			
RSNC	V	01 01 28 51.9–1.2	2.46N	75.42W	15–5	3.3L,3.3			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=201.1km s-min=22.4km az=21.0.								
ISCJB	Event type ke. Error ellipse: s-maj=11.3km s-min=8.6km az=20.1.								
RSNC	Error ellipse: s-maj=3.9km s-min=3.7km az=-1.0.								
ISC	**V**	**19 05 44 31.8–1.9**	**5.9N–.10**	**72.71W–.06**	**35**		**24**	**0-7**	
RSNC	V	19 05 44 30.9–.86	5.97N	72.80W	0–10	2.6L			¶601700351
ISCJB	V	19 05 44 32.5–1.4	6.0N–.10	72.69W–.05	33	2.6L			
FUNV	V	19 05 44 41.4	6.31N	72.43W	33	3.2W			
ISC	Event type ke.								
RSNC	Error ellipse: s-maj=7.4km s-min=9.7km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=16.1km s-min=6.8km az=173.3.								
ISC	**VI**	**01 22 57 59.6–.34**	**4.84N–.03**	**75.92W–.03**	**66–2**	**5.0b**	**739**	**1-156**	
MOS	VI	01 22 57 56.2–.93	4.72N	75.90W	50	5.2b			¶16554281
BJI	VI	01 22 57 59.2	4.80N	75.80W	78	5.2,5.2b			
ISCJB	VI	01 22 57 59.4–.27	4.90N–.02	75.93W–.02	75–2	4.9b,5.2b			
RSNC	VI	01 22 58 00.1–.98	4.88N	75.96W	20–4	4.5L,5.2b			
NEIC	VI	01 22 58 01.1–.45	4.79N	75.77W	80–4	5.0b,5.2b			
IDC	VI	01 22 58 02.0–1.3	4.78N	75.84W	90–11	4.6,4.4			
ISC	Event type fe.								
MOS	Error ellipse: s-maj=10.2km s-min=6.1km az=110.6.								

ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.0km az=37.5.
RSNC Error ellipse: s-maj=2.3km s-min=2.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=58.0. Felt [IV] at Pereira. Also felt at Andes, Manizales, Medellin and Tunja.
IDC Error ellipse: s-maj=14.2km s-min=10.0km az=61.0.

ISC	**VI**	**02 07 12 21.2–1.6**	**5.23N–.05**	**73.68W–.05**	**177–11**		**51**	**1-9**
ISCJB	VI	02 07 12 22.6–.59	5.25N–.04	73.65W–.04	164–6			**¶603243721**
FUNV	VI	02 07 12 23.8	5.27N	73.78W	190	3.8W		
RSNC	VI	02 07 12 25.4–.76	5.28N	73.75W	146–5	3.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.9km az=37.5.
RSNC Error ellipse: s-maj=2.7km s-min=3.2km az=-1.0.

ISC	**VI**	**03 21 53 30.4–1.0**	**3.94N–.05**	**76.76W–.05**	**122–9**		**21**	**1-78**
ISCJB	VI	03 21 53 29.3–.61	3.94N–.05	76.77W–.05	129–6	3.4b		**¶17205129**
RSNC	VI	03 21 53 30.5–1.1	3.93N	76.74W	124–10	3.4L		
IDC	VI	03 21 53 30.8–7.4	3.72N	76.68W	130–46	3.7,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.6km az=33.7.
RSNC Error ellipse: s-maj=3.2km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=88.7km s-min=36.7km az=24.0.

(104) Off coast of Ecuador.

ISC	**I**	**15 10 30 38.7–1.6**	**1.0N–.20**	**85.5W–.20**	**35**	**3.8b,3.7s**	**6**	**7-65**
GCMT	I	15 10 30 32.0–.60	1.03N	85.21W	30–2	4.9W,3.7s		**¶17190241**
IDC	I	15 10 30 33.7–1.8	1.06N	85.41W	0	4.0,3.8		
NEIC	I	15 10 30 34.9–1.2	0.95N	85.58W	10	4.0,3.8		
ISCJB	I	15 10 30 37.3–1.3	1.2N–.20	85.4W–.20	33	3.8b,3.7s		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c27; s66,c88;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.16±.19 $M_{\theta\theta}$0.70±.14; $M_{\phi\phi}$-0.86±.17; $M_{r\theta}$-0.30±.18; $M_{\theta\phi}$2.25±.13; $M_{\phi r}$0.01±.21; Best double couple: NP1:ϕ_s280.00000°,δ88.00000°,λ7.00000°. NP2:ϕ_s189.00000°,δ83.00000°,λ178.00000°. Principal axes: T 2.3280,Plg6.0000°,Azm145.0000°; N 0.1470,Plg83.0000°,Azm292.0000° ; P -2.4750,Plg4.0000°,Azm54.0000° $M_0$2.40100×10^{16}
NEIC Event type se.
ISCJB Event type se.

IGQ	**I**	**23 20 16 03**	**1.63S**	**81.84W**	**15–10**	**4.5b**		
								¶601875623

IGQ Error ellipse: s-maj=7.3km s-min=5.7km az=12.3.

IGQ	**II**	**04 12 03 10**	**0.46N**	**81.10W**	**13–6**	**4.0b**		
								¶601875750

IGQ Error ellipse: s-maj=5.1km s-min=2.8km az=25.8.

ISC	**III**	**19 12 01 11.4–1.0**	**0.9N–.10**	**85.3W–.10**	**35**	**3.9b,3.8s**	**15**	**7-127**
IDC	III	19 12 01 07.1–1.3	1.11N	85.08W	0	4.1,3.9		**¶17197216**
ISCJB	III	19 12 01 10.3–.86	1.0N–.10	85.25W–.08	35	3.9b,3.8s		

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**19 12 05 28.2–2.0**	**1.69N**	**84.23W**	**0**	**3.9,3.7**		
								¶17197217

IDC Error ellipse: s-maj=181.1km s-min=26.1km az=55.0.

ISC	**III**	**31 06 44 36.7–.62**	**1.64S–.05**	**81.71W–.06**	**35**	**3.9b,3.5s**	**66**	**1-122**
IGQ	III	31 06 44 30	1.60S	81.85W	12–4	4.1b,3.5s		**¶16475914**
IDC	III	31 06 44 32.3–1.1	1.68S	81.68W	0	4.4L,4.1		
NEIC	III	31 06 44 36.0–2.6	1.67S	81.62W	26–21	4.6b,4.1		
ISCJB	III	31 06 44 35.6–.50	1.58S–.04	81.74W–.04	33	3.8b,3.5s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**IV**	**02 21 30 02.6–1.4**	**0.9N–.10**	**85.3W–.20**	**35**	**3.8b,3.2s**	**7**	**7-65**
IDC	IV	02 21 29 57.3–1.9	0.90N	85.40W	0	4.1,4.0		**¶17199576**
ISCJB	IV	02 21 30 00.4–1.3	0.9N–.10	85.3W–.10	33	3.8b,3.2s		

ISC Event type ke.
ISCJB Event type ke.

ISC	**V**	**12 02 36 01.5–.38**	**1.76S–.04**	**81.61W–.04**	**10**	**4.7b,4.1s**	**437**	**1-151**
IGQ	V	12 02 35 59	1.63S	81.87W	16–4	4.4b,4.1s		**¶16506961**
ISCJB	V	12 02 36 00.4–.20	1.80S–.03	81.76W–.02	10	4.6b,4.1s		
IDC	V	12 02 36 01.0–.66	1.60S	81.55W	0	4.5,4.4		
NEIC	V	12 02 36 01.6–.26	1.75S	81.63W	10	4.8b,4.4		
GCMT	V	12 02 36 01.5–.30	1.85S	81.70W	23–1	5.0W,4.4		

ISC Event type se.
IGQ Error ellipse: s-maj=5.7km s-min=4.3km az=82.4.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.1km az=9.9.
IDC Error ellipse: s-maj=27.0km s-min=11.5km az=56.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.5km az=224.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c45; s88,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.84±.15 $M_{\theta\theta}$-0.79±.12; $M_{\phi\phi}$1.63±.15; $M_{r\theta}$-0.12±.17; $M_{\theta\phi}$4.09±.11; $M_{\phi r}$1.02±.22; Best double couple: NP1:ϕ_s172.00000°,δ86.00000° ,λ-165.00000°. NP2:ϕ_s82.00000°,δ75.00000°,λ-4.00000°. Principal axes: T 4.7860,Plg8.0000°,Azm306.0000°; N -0.7770,Plg75.0000°,Azm186.0000° ; P -4.0050,Plg13.0000°,Azm38.0000° $M_0$4.39500×10^{16}

(105) Near coast of Ecuador.

ISC	**I**	**01 11 28 57.3–.61**	**2.68S–.05**	**79.67W–.06**	**100**	**3.6b**	**32**	**2-148**
IDC	I	01 11 28 55.9–3.1	2.62S	79.64W	80–30	3.9,3.8		**¶17189131**
ISCJB	I	01 11 28 56.4–.50	2.70S–.04	79.72W–.05	100	3.8b,3.8		
IGQ	I	01 11 28 56	2.78S	79.69W	72–11	4.4b,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=27.1km s-min=17.4km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.7km az=178.5.
IGQ Error ellipse: s-maj=4.4km s-min=1.3km az=89.4.

ISC	**I**	**01 16 38 00.3–3.3**	**1.83N–.06**	**79.52W–.07**	**16–24**		**32**	**1-3**
RSNC	I	01 16 38 02.5–.88	1.89N	79.54W	23–5	2.9L		**¶601874927**
IGQ	I	01 16 38 05	1.55N	79.27W	12–6	4.1b		

ISC Event type ke.
RSNC Error ellipse: s-maj=7.7km s-min=8.3km az=-1.0.
IGQ Error ellipse: s-maj=9.1km s-min=3.4km az=139.9.

IGQ	**I**	**06 00 14 08**	**2.57S**	**80.43W**	**20–36**	**4.0b**		
								¶601875310

IGQ Error ellipse: s-maj=1.8km s-min=3.4km az=126.7.

ISC	**I**	**06 06 35 35.1–4.9**	**3.5S–.30**	**79.8W–.10**	**35**	**3.7b**	**33**	**2-83**
IDC	I	06 06 35 25.4–5.7	4.69S	78.07W	0	4.0,3.7		**¶601875311**
IGQ	I	06 06 35 36	3.00S	79.73W	12–10	4.4b,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=201.8km s-min=41.1km az=29.0.
IGQ Error ellipse: s-maj=8.2km s-min=3.8km az=72.7.

IGQ	**I**	**06 06 57 34**	**3.02S**	**79.87W**	**12–11**	**4.2b**		
								¶601875312

IGQ Error ellipse: s-maj=8.3km s-min=3.5km az=83.6.

ISC	**I**	**12 12 20 00.4–2.9**	**3.29S–.04**	**79.87W–.06**	**3–19**	**3.6b**	**51**	**2-71**
IDC	I	12 12 19 59.4–1.5	2.40S	78.32W	0	4.1,3.9		**¶16151160**
NEIC	I	12 12 20 03.8–.54	2.35S	78.26W	35	4.6,4.1b		
IGQ	I	12 12 20 05	3.22S	79.81W	28–5	4.6b,4.1b		

ISC Event type se.
IDC Error ellipse: s-maj=61.3km s-min=24.0km az=80.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=7.6km az=77.0.
IGQ Error ellipse: s-maj=3.8km s-min=3.0km az=93.8.

IGQ	**I**	**19 09 39 59**	**2.82S**	**80.48W**	**12–6**	**4.1b**		
								¶601875605

IGQ Error ellipse: s-maj=3.2km s-min=6.1km az=54.7.

ISC	**II**	**13 04 13 20.5–1.4**	**0.73S–.05**	**80.26W–.04**	**4–13**		**33**	**0-8**
IGQ	II	13 04 13 21	0.77S	80.27W	12–5	4.1b		**¶601875800**

ISC Event type ke.
IGQ Error ellipse: s-maj=3.1km s-min=1.1km az=61.8.

ISC	**II**	**16 09 48 38.9–1.8**	**1.52S–.09**	**80.91W–.07**	**10**		**31**	**0-9**
ISCJB	II	16 09 48 39.5–1.3	1.42S–.07	81.08W–.08	10			**¶601875802**
IGQ	II	16 09 48 39	1.51S	80.89W	12–21	4.2b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.9km az=140.6.
IGQ Error ellipse: s-maj=3.6km s-min=3.0km az=13.1.

ISC	**III**	**28 17 08 52.2–.63**	**2.85S–.06**	**80.58W–.08**	**53**	**3.9b,3.1s**	**71**	**2-134**
IDC	III	28 17 08 46.2–1.2	2.67S	80.43W	0	4.1,4.0		**¶16475544**
IGQ	III	28 17 08 47	3.02S	80.59W	12–10	4.1b,4.0		
ISCJB	III	28 17 08 50.9–.57	2.96S–.04	80.66W–.05	53	4.0b,3.1s		
NEIC	III	28 17 08 52.5–.97	2.80S	80.49W	49–10	4.5b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=36.1km s-min=18.5km az=69.0.
IGQ Error ellipse: s-maj=5.2km s-min=3.2km az=121.2.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.1km az=179.7.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.7km az=52.0.

ISC	**IV**	**14 12 19 48.0–.74**	**0.10N–.07**	**79.92W–.09**	**15**	**3.5b**	**24**	**1-141**
ISCJB	IV	14 12 19 45.9–.79	0.03S–.08	79.91W–.07	15	3.4b,2.8s		**¶17201021**
IDC	IV	14 12 19 55.3–2.8	0.08N	79.70W	88–28	3.5,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=9.1km az=162.4.
IDC Error ellipse: s-maj=30.1km s-min=18.7km az=49.0.

ISC	**IV**	**20 22 27 58.8–.38**	**3.91S–.05**	**79.55W–.07**	**95**	**4.7b**	**383**	**1-165**
IGQ	IV	20 22 27 54	4.08S	79.69W	111–12	4.1b		**¶16451844**
ISCJB	IV	20 22 27 56.9–.26	3.96S–.03	79.61W–.03	95	4.6b		
NEIC	IV	20 22 27 60.0–.56	3.88S	79.47W	103–5	4.7b,4.5		
IDC	IV	20 22 27 59.4–2.0	3.84S	79.47W	96–19	4.5,4.3		
BJI	IV	20 22 27 59.5	3.90S	79.50W	97	5.0b,4.3		

ISC Event type fe.
IGQ Error ellipse: s-maj=6.2km s-min=3.4km az=86.7.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=36.7.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=61.0. Felt [II] at Cuenca and Guayaquil. Also felt at Catamayo, Celica, Loja, Macara, Pinas and Zaruma. Felt [II] at Ayabaca, Peru. Also felt at Mancora and Pucara.
IDC Error ellipse: s-maj=20.9km s-min=11.8km az=61.0.

ISC	**IV**	**26 14 20 58.8–.58**	**2.16S–.06**	**79.1W–.10**	**100**	**3.6b**	**26**	**2-148**
ISCJB	IV	26 14 20 57.7–.53	2.19S–.04	79.2W–.10	100	3.6b		**¶17202150**
IDC	IV	26 14 20 59.1–2.7	2.18S	79.14W	102–26	3.9,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=6.1km az=175.0.
IDC Error ellipse: s-maj=24.8km s-min=16.1km az=59.0.

ISC	**IV**	**26 18 30 38.3–.77**	**2.06S–.06**	**79.2W–.10**	**100**	**3.7b**	**16**	**2-141**
ISCJB	IV	26 18 30 36.8–.53	2.02S–.05	79.3W–.10	100	3.8b		**¶17202176**
IDC	IV	26 18 30 40.0–2.6	2.09S	79.20W	127–30	3.9,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=6.3km az=172.7.
IDC Error ellipse: s-maj=27.9km s-min=14.7km az=50.0.

ISC	**V**	**15 12 15 44.8–.44**	**1.10S–.05**	**80.21W–.07**	**16**	**4.6b**	**62**	**2-146**
ISCJB	V	15 12 15 42.9–.34	1.22S–.04	80.39W–.04	16	4.4b,4.1s		**¶16524505**
NEIC	V	15 12 15 48.9–1.0	1.08S	80.26W	50–11	4.6b,4.4		
IDC	V	15 12 15 51.2–2.4	1.18S	80.00W	75–23	3.9,3.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.0km az=172.4.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=7.5km az=57.0. Felt [III] at Manta and [II] at Bahia de Caraquez. Also felt at Esmeraldas, Guayaquil and Portoviejo.
IDC Error ellipse: s-maj=24.2km s-min=13.3km az=82.0.

ISC	**V**	**20 14 00 51.0–.62**	**0.62N–.06**	**79.82W–.07**	**17**	**4.1b,3.6s**	**30**	**1-141**
IDC	V	20 14 00 48.2–.80	0.59N	79.74W	0	4.2,4.0		**¶16710399**
NEIC	V	20 14 00 49.0	0.51N	79.87W	17	4.5,4.1b		

ISC Event type se.
IDC Error ellipse: s-maj=33.9km s-min=16.0km az=65.0.
NEIC Event type se. After IGQ.

ISC	**V**	**23 16 33 15.8–.58**	**0.84N–.05**	**79.70W–.04**	**20**	**3.9b,3.5s**	**58**	**0-142**
IGQ	V	23 16 33 15	0.92N	79.63W	12–4	4.1b,3.5s		**¶17204308**
IDC	V	23 16 33 16.6–.76	1.01N	79.61W	23–5	4.0,3.9		

ISC Event type ke.
IGQ Error ellipse: s-maj=7.2km s-min=2.1km az=76.9.
IDC Error ellipse: s-maj=31.1km s-min=14.6km az=68.0.

ISC	**V**	**28 19 37 03.7–.45**	**2.37S–.05**	**81.64W–.07**	**35**	**4.4b**	**111**	**4-151**
IDC	V	28 19 36 58.9–.64	2.33S	81.71W	0	4.5L,4.3		**¶16577348**
ISCJB	V	28 19 37 02.0–.28	2.36S–.04	81.65W–.04	33	4.4b,3.7s		
NEIC	V	28 19 37 02.5–2.0	2.37S	81.63W	24–15	4.5b,4.2		

ISC Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=11.8km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=136.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=4.2km az=54.0. Felt [IV] at Salinas.

(106) Colombia-Ecuador border region.

ISC	**II**	**01 11 35 07.5–1.5**	**0.78N–.04**	**76.99W–.06**	**9–12**		**43**	**1-3**
IGQ	II	01 11 35 08	0.76N	77.06W	12–3	4.3b		**¶601875726**
RSNC	II	01 11 35 09.5–.73	0.81N	77.04W	4–4	3.6L		

ISC Event type ke.
IGQ Error ellipse: s-maj=3.1km s-min=2.3km az=104.8.
RSNC Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.

(107) Ecuador.

ISC	**I**	**01 00 52 49.9–.98**	**0.82S–.02**	**78.33W–.04**	**8–10**		**46**	**0-7**
IGQ	I	01 00 52 49	0.81S	78.39W	9–1	4.0b		**¶601874926**

ISC Event type ke.
IGQ Error ellipse: s-maj=1.2km s-min=0.4km az=5.4.

IGQ	**I**	**06 18 25 35**	**1.72S**	**78.99W**	**30–5**	**4.1b**		
								¶601875313

IGQ Error ellipse: s-maj=4.9km s-min=1.9km az=49.4.

ISC	**I**	**19 00 33 54.3–.69**	**1.55S–.06**	**77.88W–.07**	**184–6**	**3.6b**	**70**	**1-142**
IGQ	I	19 00 33 51	1.60S	77.82W	200–3	4.2b		**¶17190517**
IDC	I	19 00 33 52.7–2.3	1.48S	77.66W	158–25	4.0,3.6		
ISCJB	I	19 00 33 53.8–.35	1.54S–.04	77.80W–.07	187–4	3.6b,3.6		

ISC Event type ke.
ISCJB Event type ke.

IGQ	**II**	**09 12 44 26**	**0.58S**	**78.53W**	**10–1**	**4.0b**		
								¶601875773

IGQ Error ellipse: s-maj=0.8km s-min=0.4km az=179.4.

ISC	**II**	**17 00 04 44.6–.88**	**0.24S–.03**	**78.45W–.04**	**14–5**		**37**	**0-1**
IGQ	II	17 00 04 44	0.25S	78.49W	15–0	4.1b		**¶601875805**
ISCJB	II	17 00 04 45.4–.39	0.26S–.03	78.40W–.05	7–5	4.1b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**20 11 39 46.0–.49**	**0.35S–.02**	**77.90W–.04**	**7**	**4.5b**	**72**	**0-81**
IGQ	III	20 11 39 43	0.36S	77.85W	7–2	4.1b		**¶16341346**
ISCJB	III	20 11 39 45.0–.30	0.35S–.02	77.89W–.03	7	4.3b,3.4s		
IDC	III	20 11 39 45.1–.77	0.38S	77.81W	0	4.0,4.0		
NEIC	III	20 11 39 47.8–.64	0.36S	77.99W	10	4.5b,4.3		

ISC Event type fe.
IGQ Error ellipse: s-maj=1.8km s-min=0.5km az=9.4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.7km az=11.0.
IDC Error ellipse: s-maj=20.8km s-min=14.2km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=16.7km s-min=10.1km az=224.0. Felt in Quijos.

ISC	**III**	**20 11 43 31.4–1.1**	**0.34S–.02**	**77.89W–.05**	**14–11**		**38**	**0-3**
IGQ	III	20 11 43 31	0.35S	77.85W	8–3	4.0b		**¶601875927**
ISCJB	III	20 11 43 32.7–.80	0.35S–.03	77.94W–.06	8–5	4.0b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 20 22 38.5–1.0**	**0.32S–.04**	**77.95W–.06**	**7**		**20**	**1-5**
IGQ	III	22 20 22 38	0.34S	77.87W	12–5	4.0b		**¶601875937**
ISCJB	III	22 20 22 39.3–.64	0.33S–.03	77.86W–.05	7	4.0b		

ISC Event type ke.
ISCJB Event type ke.

IDC	**IV**	**01 17 35 31.8–8.8**	**1.79S**	**77.70W**	**220–107**	**3.7,3.4**		
								¶17199449

IDC Error ellipse: s-maj=109.3km s-min=39.2km az=34.0.

ISC	**IV**	**23 02 49 50.4–.58**	**1.91S–.06**	**77.6W–.10**	**150**	**3.9b**	**35**	**2-142**
ISCJB	IV	23 02 49 50.3–.42	1.90S–.03	77.51W–.09	150	3.7b		**¶17201857**
IDC	IV	23 02 49 50.8–3.0	1.76S	77.38W	153–32	4.1,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=4.9km az=1.6.
IDC Error ellipse: s-maj=29.8km s-min=12.8km az=58.0.

ISC	**IV**	**25 22 22 10.0–1.2**	**2.78S–.03**	**78.07W–.05**	**8–7**	**4.8b,4.2s**	**315**	**1-152**
ISCJB	IV	25 22 22 08.3–.22	2.89S–.03	78.06W–.04	10	4.8b,4.2s		**¶16459948**

IDC IV 25 22 22 09.4–.62 2.89S 78.00W 0 4.6,4.4
IGQ IV 25 22 22 11 2.66S 78.12W 12–3 4.4b,4.4
NEIC IV 25 22 22 16.7–1.0 2.91S 77.63W 41–9 4.8b,4.6
BJI IV 25 22 22 21.4 2.90S 77.40W 69 5.4b,5.3s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.3km az=160.1.
IDC Error ellipse: s-maj=26.1km s-min=12.4km az=52.0.
IGQ Error ellipse: s-maj=3.9km s-min=3.1km az=9.1.
NEIC Event type fe. Error ellipse: s-maj=12.0km s-min=5.6km az=61.0. Felt at Banos and Macas, Ecuador.

ISC IV 25 22 30 33.5–.92 2.59S–.07 78.1W–.30 9 3.5b 8 4-83
IDC IV 25 22 30 32.4–1.3 2.65S 78.30W 0 4.6L,3.9 **¶17202084**
ISC Event type ke.
IDC Error ellipse: s-maj=58.8km s-min=23.8km az=84.0.
ISC V 24 00 49 29.9–.86 1.69S–.07 77.7W–.10 150 3.8b 15 2-127
IDC V 24 00 49 26.9–5.3 1.29S 77.42W 123–54 4.0,3.7 **¶17204341**
ISCJB V 24 00 49 31.2–.68 1.74S–.05 77.6W–.10 150 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.

(108) Off coast of northern Peru.

ISC I 10 09 04 37.3–.74 7.3S–.10 80.8W–.10 35 4.1s,4.0b 21 2-136
IDC I 10 09 04 32.2–1.0 7.18S 80.86W 0 4.1,4.0 **¶16150958**
ISCJB I 10 09 04 35.1–.69 7.3S–.10 80.9W–.10 33 4.0b,4.0s
NEIC I 10 09 04 38.1–1.5 7.22S 80.76W 42–14 4.2b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=32.4km s-min=16.0km az=42.0.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=8.6km az=44.3.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=9.9km az=65.0.
ISC I 25 08 15 12.6–.89 9.99S–.08 79.0W–.10 52 3.6b 13 3-142
ISCJB I 25 08 15 11.2–.87 9.99S–.07 79.1W–.10 52 3.6b,3.5s **¶17190951**
IDC I 25 08 15 13.7–3.4 9.91S 78.84W 61–33 4.0L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=7.0km az=154.9.
IDC Error ellipse: s-maj=53.8km s-min=8.5km az=71.0.
ISC IV 28 16 53 24.5–1.1 8.91S–.08 80.7W–.10 35 3.8b 11 3-135
IDC IV 28 16 53 19.7–1.3 8.78S 80.69W 0 4.0,3.8 **¶17202318**
ISCJB IV 28 16 53 22.0–.94 8.98S–.07 80.69W–.08 33 3.8b,3.0s
ISC Event type ke.
ISCJB Event type ke.

(109) Near coast of northern Peru.

ISC I 04 03 11 35.7–1.4 5.8S–.30 81.9W–.20 35 3.6b 10 4-137
IDC I 04 03 11 30.5–1.6 5.78S 81.90W 0 4.0,3.8 **¶17189385**
ISC Event type ke.
IDC Error ellipse: s-maj=54.1km s-min=23.5km az=28.0.
NEIC II 04 14 25 22.0 9.66S 78.50W 58 4.2
¶602064407
NEIC Event type fe. Felt [II] at Casma and Chimbote. After ARE.
ISC VI 18 22 11 18.6–.37 5.95S–.05 81.00W–.08 30 4.8b,4.1s 455 3-168
IDC VI 18 22 11 14.1–.60 5.85S 81.18W 0 4.7,4.6 **¶16632952**
ISCJB VI 18 22 11 17.6–.20 5.83S–.03 80.73W–.04 33 4.8b,4.2s
BJI VI 18 22 11 19.8 5.80S 80.60W 33 5.3b,5.1s
NEIC VI 18 22 11 23.3–.61 5.83S 80.69W 70–5 4.8b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=12.6km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.5km az=148.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.1km az=61.0.
ISC VI 19 00 20 06.2–.29 6.07S–.04 81.10W–.05 30 5.1s,5.0b 719 3-178
IDC VI 19 00 20 01.6–.51 5.83S 81.03W 0 5.2,5.1s **¶16632960**
GCMT VI 19 00 20 03.8–.10 6.12S 81.22W 20–0 5.6W,5.1s
NEIC VI 19 00 20 03.8–.23 5.96S 80.98W 10 5.5W,5.0b
ISCJB VI 19 00 20 04.4–.20 5.93S–.03 80.92W–.03 28 5.1s,4.9b
BJI VI 19 00 20 07.3 6.00S 80.90W 30 5.4b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=9.0km az=42.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c187; s120,c274;Duration: 1^{9}5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.96±.03 $M_{\theta\theta}$-0.19±.02; $M_{\phi\phi}$-1.77±.03; $M_{r\theta}$0.47±.04; $M_{\theta\phi}$0.43±.02; $M_{\phi r}$-2.42±.08; Best double couple: NP1: ϕ_s168.00000°,δ71.00000°,λ92.00000°. NP2:ϕ_s343.00000°,δ19.00000°,λ86.00000°. Principal axes: T 3.1670,Plg64.0000°,Azm81.0000°; N -0.0840,Plg1.0000°,Azm348.0000° ; P -3.0830,Plg26.0000°,Azm257.0000° $M_0$3.12500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.3km az=56.0. Felt [III] at Piura and Sechura. Also felt at Cajamarca, Chiclayo, Paita and Talara. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}1.03 $M_{\theta\theta}$0.19 $M_{\phi\phi}$-1.21 $M_{r\theta}$0.31 $M_{\theta\phi}$0.35 $M_{\phi r}$-1.59 Best double couple: NP1:ϕ_s169.00000°,δ72.00000°,λ92.00000°. NP2:ϕ_s344.00000° ,δ18.00000°,λ85.00000°. Principal axes: T 1.8600,Plg63.0000°,Azm81.0000° ; N 0.2700,Plg1.0000°,Azm348.0000°; P -2.1300,Plg27.0000°,Azm257.0000° $M_0$2.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=143.9.
IDC VI 22 17 14 29.2–1.7 4.67S 81.31W 0 4.0,4.0L
¶17206767
IDC Error ellipse: s-maj=134.0km s-min=29.0km az=49.0.
ISC VI 27 21 05 28.3–.38 6.48S–.06 80.73W–.08 35 4.8b,3.9s 342 2-168
IDC VI 27 21 05 22.7–.68 6.46S 80.95W 0 4.5,4.4 **¶16683870**
ISCJB VI 27 21 05 26.4–.25 6.41S–.04 80.65W–.04 33 4.8b,4.0s
NEIC VI 27 21 05 29.8–.67 6.49S 80.71W 50–6 4.7b,4.0s
BJI VI 27 21 05 29.5 6.60S 80.80W 43 5.3b,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=20.9km s-min=15.0km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.2km az=145.5.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=60.0. Felt [II] at Chiclayo. Also felt at Chimbote and Mancora.

(110) Peru-Ecuador border region.

ISC II 06 21 16 34.3–2.7 3.0S–.10 77.74W–.10 10 35 2-5
IGQ II 06 21 16 34 3.02S 77.76W 12–5 4.2b **¶601875755**
ISC Event type ke.
IGQ Error ellipse: s-maj=3.5km s-min=2.0km az=152.7.
ISC III 08 02 05 56.6–.59 4.99S–.06 78.6W–.10 35 3.9b,3.1s 24 2-139
ISCJB III 08 02 05 54.5–.56 5.05S–.05 78.6W–.10 33 3.8b,3.2s **¶17193446**
IDC III 08 02 06 00.2–2.1 5.09S 78.52W 72–23 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=6.9km az=169.2.
IDC Error ellipse: s-maj=22.4km s-min=15.7km az=57.0.
ISC V 21 01 34 29.7–.56 3.52S–.05 80.42W–.10 35 4.0b,3.5s 50 4-152
ISCJB V 21 01 34 27.9–.37 3.63S–.04 80.48W–.06 33 4.0b,3.5s **¶16531788**
NEIC V 21 01 34 31.6–2.0 3.63S 80.32W 49–21 4.3b,4.2
IDC V 21 01 34 32.9–2.1 3.63S 80.42W 73–20 4.1,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.7km az=159.8.
NEIC Event type fe. Error ellipse: s-maj=28.4km s-min=10.5km az=70.0. Felt at Tumbes and Zorritos, Peru.
IDC Error ellipse: s-maj=20.4km s-min=12.2km az=73.0.

(111) Northern Peru.

ISC I 15 08 24 43.3–.58 6.52S–.06 75.33W–.07 29 3.8b 31 3-88
IDC I 15 08 24 39.2–.78 6.37S 75.28W 0 4.1,4.0 **¶16007271**
ISCJB I 15 08 24 41.4–.39 6.54S–.04 75.28W–.04 29 3.9b,3.4s
NEIC I 15 08 24 44.1–.75 6.50S 75.30W 36–9 4.2b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=16.2km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.6km az=154.9.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.6km az=53.0.
IDC II 04 00 28 22.7–2.0 6.26S 77.11W 128–24 3.8,3.5
¶17191628
IDC Error ellipse: s-maj=33.5km s-min=14.9km az=42.0.
ISC III 03 19 45 04.5–.57 6.65S–.10 75.64W–.06 29 4.3b 46 3-167
IDC III 03 19 45 00.6–.86 6.57S 75.66W 0 4.4,4.3L **¶16359827**
ISCJB III 03 19 45 04.0–.46 6.47S–.06 75.54W–.04 29 4.3b,3.8s
NEIC III 03 19 45 04.1–2.0 6.56S 75.64W 23–14 4.3b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=16.3km az=20.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.1km az=0.7.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.1km az=204.0.
ISC IV 03 19 45 37.6–.79 7.09S–.10 76.53W–.09 150 3.3b 12 2-139
ISCJB IV 03 19 45 36.7–.68 7.08S–.09 76.48W–.07 150 3.5b **¶17199696**
IDC IV 03 19 45 38.2–2.3 7.31S 76.64W 156–42 3.8,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=9.5km az=31.0.
IDC Error ellipse: s-maj=101.4km s-min=20.3km az=36.0.
ISC IV 12 07 20 07.5–.69 5.22S–.06 76.02W–.08 35 20 3-141
ISCJB IV 12 07 20 06.7–.53 5.20S–.04 76.08W–.06 33 3.4b **¶17200753**
IDC IV 12 07 20 10.1–2.1 5.33S 76.16W 59–24 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.9km az=17.3.
IDC Error ellipse: s-maj=27.3km s-min=23.0km az=89.0.
ISC IV 30 15 49 40.4–.47 6.86S–.05 76.83W–.08 51 4.2b 50 2-168
IDC IV 30 15 49 36.7–3.1 6.81S 77.01W 19–21 4.1,4.1 **¶16485930**
ISCJB IV 30 15 49 38.7–.34 6.81S–.04 76.79W–.05 51 4.1b,3.5s
NEIC IV 30 15 49 40.0 6.92S 77.10W 45 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=13.1km az=40.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.0km az=159.0.
NEIC Event type se. After ARE.
ISC V 20 20 11 34.1–.91 6.2S–.10 77.2W–.10 41 3.4b 9 2-147
IDC V 20 20 11 28.6–.99 6.03S 77.03W 0 3.9,3.7 **¶17204076**
ISCJB V 20 20 11 32.2–.90 6.14S–.10 77.11W–.09 41 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 25 01 33 59.3–.43 6.61S–.06 75.63W–.06 29 4.2b 49 3-149
IDC V 25 01 33 55.1–.74 6.48S 75.67W 0 4.3,4.1 **¶16617321**
ISCJB V 25 01 33 57.4–.32 6.64S–.04 75.63W–.04 29 4.3b,3.4s
NEIC V 25 01 33 59.2–1.5 6.64S 75.67W 28–11 4.2b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=18.7km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.1km az=148.7.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=64.0.
ISC VI 29 10 41 33.0–.48 6.21S–.05 76.85W–.08 41 4.6b 63 2-150
IDC VI 29 10 41 27.3–.74 6.09S 77.01W 0 4.2,4.1 **¶16702438**
ISCJB VI 29 10 41 31.3–.33 6.23S–.03 76.89W–.05 41 4.5b,3.7s
NEIC VI 29 10 41 34.3–.71 6.30S 76.99W 53–7 4.7b,3.7s
BJI VI 29 10 41 35.5 6.30S 76.70W 69 5.3b,5.1s
ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=17.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=3.8.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.4km az=83.0. Felt [III] at Nueva Cajamarca and Rioja; [II] at Moyobamba, Soritor and Tarapoto. Also felt at Jepelacio, Lamas, San Jose de Sisa and Tabalosos.

(112) Peru-Brazil border region.

ISC I 15 06 05 10.6–.53 8.60S–.06 74.76W–.08 150 3.8b 36 4-127
ISCJB I 15 06 05 10.1–.40 8.64S–.04 74.80W–.05 150 3.7b **¶17190227**
IDC I 15 06 05 10.5–.71 8.50S 74.74W 140–7 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.6km az=165.5.
IDC Error ellipse: s-maj=19.8km s-min=10.0km az=30.0.
IDC III 08 08 38 20–2.1 9.89S 71.12W 630–40 3.6,2.7
¶17193461
IDC Error ellipse: s-maj=59.5km s-min=25.5km az=26.0.
ISC III 27 13 26 36.8–.41 8.69S–.05 74.60W–.05 133–3 4.8b 500 4-168
SCB III 27 13 26 32.7–.37 8.75S 74.71W 125 4.3L **¶16362968**
BJI III 27 13 26 36.2 8.70S 74.60W 126 5.2b
NEIC III 27 13 26 36.8–.32 8.70S 74.62W 132–2 4.8b
ISCJB III 27 13 26 36.7–.53 8.71S–.03 74.69W–.03 147–5 4.6b
IDC III 27 13 26 37.1–.47 8.78S 74.69W 138–3 4.6,4.3
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=62.8km s-min=7.5km az=47.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=225.0. Felt [V] at Pucallpa and [II] at Curimana. Also felt at Huanuco.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=140.5.
IDC Error ellipse: s-maj=13.6km s-min=8.2km az=47.0.
ISC III 29 09 26 54.6–.65 6.21S–.09 74.93W–.07 27 3.7b 20 4-135
IDC III 29 09 26 50.2–.88 6.31S 75.02W 0 4.0,3.8 **¶16475646**
ISCJB III 29 09 26 52.9–.50 6.26S–.07 74.92W–.05 27 3.8b,3.8
NEIC III 29 09 26 55.7–.36 6.24S 74.98W 35 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=14.8km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=6.7km az=29.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=7.1km az=217.0.
ISC IV 02 16 42 16.3–.75 8.7S–.20 74.4W–.10 147 3.5b 14 4-145
ISCJB IV 02 16 42 15.2–.65 8.5S–.20 74.31W–.10 147 3.5b **¶17199550**
IDC IV 02 16 42 15.5–2.1 8.62S 74.31W 138–27 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.3km s-min=8.3km az=26.9.
IDC Error ellipse: s-maj=62.4km s-min=13.7km az=32.0.
IDC IV 29 17 03 01.0–6.1 8.12S 74.19W 139–68 3.7,3.6
¶17202398
IDC Error ellipse: s-maj=88.9km s-min=26.8km az=43.0.
ISC V 05 14 26 14.3–1.3 8.3S–.10 74.3W–.10 147 7 4-140
ISCJB V 05 14 26 13.3–1.2 8.38S–.09 74.36W–.09 147 3.1b **¶17202854**
IDC V 05 14 26 15.3–3.1 8.41S 74.48W 156–31 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=10.9km az=38.3.
IDC Error ellipse: s-maj=38.9km s-min=15.7km az=62.0.
ISC V 18 09 22 05.7–.78 7.98S–.08 74.53W–.08 151 12 4-140
ISCJB V 18 09 22 05.0–.62 7.98S–.06 74.53W–.06 151 3.2b **¶17203870**
IDC V 18 09 22 06.2–1.9 8.01S 74.61W 164–29 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=8.1km az=27.2.
IDC Error ellipse: s-maj=28.7km s-min=14.5km az=60.0.
IDC VI 04 03 29 37.6–2.7 8.46S 74.15W 157–33 3.8,3.5
¶17205155
IDC Error ellipse: s-maj=47.4km s-min=15.6km az=42.0.
ISC VI 04 13 37 44.7–.35 7.77S–.04 74.47W–.06 152–3 5.1b 1059 4-168
MOS VI 04 13 37 41.4–1.6 7.58S 74.46W 139 5.1b **¶16557035**
NEIC VI 04 13 37 42.0 7.74S 74.63W 141 5.2b
GCMT VI 04 13 37 42.0–.30 7.84S 74.46W 154–2 5.0W
BJI VI 04 13 37 44.3 7.70S 74.30W 140 5.1b
ISCJB VI 04 13 37 44.2–.51 7.65S–.03 74.46W–.03 156–4 5.0b
IDC VI 04 13 37 45.4–.37 7.64S 74.32W 152–3 5.1,4.9
ISC Event type fe.
MOS Error ellipse: s-maj=16.0km s-min=5.9km az=114.0.
NEIC Event type fe. Felt [III] at Pucallpa. Also felt at Barranca. After ARE.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c43; s81,c114; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.59±.10 $M_{\theta\theta}$-0.20±.10; $M_{\phi\phi}$3.79±.13; $M_{r\theta}$-0.31±.09; $M_{\theta\phi}$-0.75±.13; $M_{\phi r}$-0.42±.13; Best double couple: NP1:ϕ_s356.00000° ,δ48.00000°,λ-81.00000°. NP2:ϕ_s163.00000°,δ43.00000°,λ-100.00000°. Principal axes: T 3.9430,Plg3.0000°,Azm80.0000°; N -0.2940,Plg7.0000°,Azm170.0000° ; P -3.6510,Plg83.0000°,Azm327.0000° $M_0$3.79700×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=135.4.
IDC Error ellipse: s-maj=13.0km s-min=8.3km az=55.0.
ISC VI 05 21 58 27.7–.86 8.92S–.08 74.52W–.08 145 10 4-140
ISCJB VI 05 21 58 26.5–.72 8.92S–.07 74.52W–.06 145 3.1b **¶17205365**
IDC VI 05 21 58 27.1–1.8 8.93S 74.51W 140–24 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.4km az=12.7.
IDC Error ellipse: s-maj=24.0km s-min=13.5km az=54.0.
ISC VI 12 20 32 25.5–.44 8.52S–.05 74.92W–.06 135–4 4.5b 95 4-168
NEIC VI 12 20 32 21.0 8.68S 75.23W 140 4.8b **¶16593439**

ISCJB VI 12 20 32 24.8–.58 8.58S–.04 74.99W–.05 141–6 4.4b
IDC VI 12 20 32 25.4–.43 8.57S 74.98W 132–4 4.7,4.3
ISC Event type fe.
NEIC Event type fe. Felt [III] at Aguatia and Tingo Maria; [II] at Pucallpa. Also felt at Campoverde. After ARE.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.9km az=157.8.
IDC Error ellipse: s-maj=9.6km s-min=8.2km az=67.0.
ISC VI 14 08 38 19.3–.40 10.25S–.04 71.05W–.06 540–4 4.1b 391 6-154
ISCJB VI 14 08 38 18.6–.29 10.27S–.03 71.05W–.04 552–4 4.2b **¶16594464**
NEIC VI 14 08 38 19.5–.32 10.28S 70.97W 540–4 4.2b
IDC VI 14 08 38 19.1–.46 10.35S 71.09W 542–5 4.5,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.7km az=159.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=3.5km az=76.0. Felt [II] at Puerto Maldonado, Peru. Also felt at Iberia.
IDC Error ellipse: s-maj=14.2km s-min=8.7km az=54.0.

(113) Western Brazil.

IDC V 03 20 11 20.3–1.9 8.46S 71.32W 0 3.7,3.5
¶17202711
IDC Error ellipse: s-maj=80.7km s-min=37.6km az=64.0.
IDC VI 12 20 32 27.2–4.3 7.33S 71.70W 0 4.5,4.3b
¶17205990
IDC Error ellipse: s-maj=390.8km s-min=71.6km az=57.0.

(114) Off coast of Peru.

ISC I 02 05 05 20.9–1.1 17.1S–.10 74.4W–.10 35 4.2b 10 6-149
ISCJB I 02 05 05 18.9–.95 17.13S–.10 74.36W–.09 33 4.3b **¶17189185**
IDC I 02 05 05 27.0–3.3 17.15S 74.07W 83–28 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=10.5km az=31.9.
IDC Error ellipse: s-maj=24.2km s-min=21.0km az=79.0.
IDC I 05 20 29 21.6–2.6 17.22S 73.50W 72–21 4.0,3.7
¶17189535
IDC Error ellipse: s-maj=43.3km s-min=19.6km az=52.0.
ISC II 06 00 44 26.1–1.6 13.3S–.10 77.3W–.20 35 3.1s 8 1-145
IDC II 06 00 44 20.7–1.7 13.42S 77.30W 0 3.8,3.6 **¶17191766**
ISCJB II 06 00 44 23.8–1.5 13.4S–.10 77.3W–.10 33 3.5b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 00 58 59.4–.94 13.5S–.10 77.0W–.20 28 3.7b,3.3s 17 2-146
ISCJB II 06 00 58 57.3–.91 13.6S–.10 77.1W–.10 28 3.6b,3.2s **¶17191771**
IDC II 06 00 58 60.0–.85 13.38S 76.89W 24–4 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.6km s-min=10.3km az=144.3.
IDC Error ellipse: s-maj=26.1km s-min=14.3km az=80.0.
ISC III 01 14 00 50.5–1.5 17.3S–.40 74.5W–.10 35 3.9b 8 6-150
IDC III 01 14 00 44.6–1.6 17.34S 74.60W 0 4.0,3.9b **¶17193072**
ISCJB III 01 14 00 49.0–2.4 17.3S–.50 74.4W–.10 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 00 25 47.4–.59 13.36S–.06 77.14W–.09 28 4.1b,3.4s 52 1-146
ISCJB III 25 00 25 45.9–.57 13.44S–.05 77.21W–.07 28 4.2b,3.4s **¶16480741**
NEIC III 25 00 25 47.9–.46 13.35S 77.13W 29 4.2b,3.4s
IDC III 25 00 25 47.9–.65 13.40S 77.02W 28–3 4.5L,4.1
SCB III 25 00 26 02.6–1.1 13.48S 75.82W 106 4.1L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.2km az=150.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=7.8km az=224.0. Felt [III] at Pisco and San Vicente de Canete.
IDC Error ellipse: s-maj=23.9km s-min=15.4km az=57.0.
SCB Event type ke. Error ellipse: s-maj=30.3km s-min=25.1km az=2.0.
ISC V 16 22 44 21.9–1.0 11.2S–.10 78.5W–.10 47 3.3b 11 2-145
ISCJB V 16 22 44 19.8–1.1 11.23S–.09 78.6W–.10 47 3.3b **¶17203779**
IDC V 16 22 44 23.9–3.4 11.07S 78.30W 67–28 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=7.7km az=142.8.
IDC Error ellipse: s-maj=54.0km s-min=10.7km az=61.0.

(115) Near coast of Peru.

IDC I 20 01 16 39.3–6.7 17.42S 70.14W 136–41 3.3,3.2
¶17190589
IDC Error ellipse: s-maj=90.4km s-min=46.4km az=12.0.
ISC I 22 07 00 15.3–.92 14.89S–.10 76.1W–.10 29 4.0b,3.2s 30 3-147
SCB I 22 06 59 56.5–.58 14.28S 77.03W 33 3.9L,3.2s **¶16022172**
IDC I 22 07 00 11.9–1.3 14.69S 76.03W 0 4.2,4.0
ISCJB I 22 07 00 13.5–.76 14.92S–.08 76.07W–.09 29 3.9b,3.0s
NEIC I 22 07 00 17.1–.85 14.67S 75.91W 35 4.6L,4.2b
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=76.6km s-min=13.2km az=20.0.
IDC Error ellipse: s-maj=33.0km s-min=14.0km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=6.1km az=44.4.
NEIC Event type fe. Error ellipse: s-maj=21.6km s-min=9.9km az=38.0. Felt [II] at Nazca and Palpa.
ISC I 25 02 07 53.3–1.6 17.83S–.06 71.2W–.10 40 3.6b 18 2-125
IDC I 25 02 07 55.0–3.2 17.86S 71.11W 80–30 3.8,3.7 **¶17190935**
GUC I 25 02 07 57.4–.34 18.17S 71.06W 32–2 4.3L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=14.5km az=106.0.
GUC Error ellipse: s-maj=4.0km s-min=5.5km az=-1.0.
IDC II 04 06 36 59.9–8.6 16.87S 74.91W 0 3.6,3.4
SCB II 04 06 36 42.7–.58 15.43S 76.09W 112 3.5L,3.4 **¶17191639**
IDC Error ellipse: s-maj=325.1km s-min=44.6km az=17.0.
SCB Event type ke. Error ellipse: s-maj=64.2km s-min=11.6km az=3.0.
ISC II 04 07 14 51.5–.69 11.32S–.07 77.9W–.10 50 3.9b 38 1-145
ISCJB II 04 07 14 49.0–.64 11.40S–.05 78.06W–.09 50 3.9b,3.1s **¶16026090**
NEIC II 04 07 14 48.0 11.27S 78.15W 41 4.2b,3.1s
IDC II 04 07 14 52.0–.69 11.23S 77.94W 54–5 4.1,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.4km az=153.3.
NEIC Event type fe. Felt [III] at Huacho and [II] at Lima. After ARE.
IDC Error ellipse: s-maj=19.5km s-min=6.3km az=48.0.
IDC II 06 00 58 25.0–1.9 13.01S 77.00W 0 3.5,3.2
¶17191768
IDC Error ellipse: s-maj=33.6km s-min=23.4km az=80.0.
ISC II 08 22 01 16.3–.39 16.85S–.05 73.73W–.05 26 4.8b,4.1s 125 2-176
SCB II 08 22 00 51.9–1.1 16.58S 75.37W 31 5.0L,4.1s **¶16016436**
IDC II 08 22 01 12.8–.64 16.69S 73.59W 0 4.5,4.4
ISCJB II 08 22 01 14.6–.30 16.79S–.05 73.71W–.05 26 4.7b,4.0s
NEIC II 08 22 01 16.1–.90 16.79S 73.72W 21–6 5.0b,4.0s
BJI II 08 22 01 18.0 16.80S 73.60W 31 5.5b,5.5s
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=145.3km s-min=22.8km az=175.0.
IDC Error ellipse: s-maj=21.6km s-min=13.3km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=136.1.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=6.4km az=51.0. Felt at Camana.
ISC II 11 00 21 47.3–.79 13.56S–.08 76.15W–.09 55 4.1b 25 2-146
ISCJB II 11 00 21 45.4–.56 13.59S–.05 76.15W–.07 55 4.2b,2.9s **¶16342600**
NEIC II 11 00 21 45.1–.62 13.57S 76.26W 35 4.1L,4.1b
IDC II 11 00 21 47.7–2.3 13.62S 76.35W 48–17 3.7,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.3km az=145.5.
NEIC Event type fe. Error ellipse: s-maj=16.1km s-min=7.9km az=62.0. Felt [II] at Chincha Alta, Pisco and Tambo de Mora.
IDC Error ellipse: s-maj=42.8km s-min=11.9km az=57.0.
ISC II 15 00 26 35.5–.62 15.94S–.08 74.32W–.06 49 4.0b 37 3-148
IDC II 15 00 26 29.5–.91 15.96S 74.33W 0 3.9,3.8 **¶16398218**
ISCJB II 15 00 26 33.9–.53 15.92S–.06 74.30W–.05 49 4.3b,3.8
NEIC II 15 00 26 33.0 16.12S 74.67W 37 4.8b,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=29.1km s-min=21.3km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.0km az=30.8.
NEIC Event type fe. Felt [II] at Chala. After ARE.
ISC II 17 11 09 41.6–1.5 17.28S–.07 71.6W–.10 100 3.6b 20 2-149
ISCJB II 17 11 09 43.2–1.0 17.42S–.05 71.59W–.10 100 3.5b **¶17192414**
GUC II 17 11 09 44.7–.32 17.49S 71.20W 148–13 4.6L
IDC II 17 11 09 48.0–4.5 17.11S 71.17W 124–37 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=7.2km az=168.8.
GUC Error ellipse: s-maj=3.0km s-min=10.3km az=-1.0.
IDC Error ellipse: s-maj=54.7km s-min=28.5km az=101.0.
ISC II 19 07 40 22.1–.86 12.01S–.09 77.50W–.10 51 3.8b 20 1-161
IDC II 19 07 40 12.7–1.0 12.46S 77.81W 0 4.2L,4.1 **¶16032638**
ISCJB II 19 07 40 20.0–.72 12.07S–.07 77.56W–.08 51 3.9b,4.1
NEIC II 19 07 40 20.1–.75 12.06S 77.63W 35 4.3b,4.1L
ISC Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=22.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=7.1km az=140.0.
NEIC Event type fe. Error ellipse: s-maj=18.2km s-min=9.4km az=52.0. Felt [II] at Ancon, Callao and Lima. Also felt at Barranca, Chosica and Huaura.
ISC II 22 14 32 58.9–.79 16.0S–.10 73.7W–.20 63 3.6b 19 5-151
IDC II 22 14 32 59.2–.69 16.00S 73.66W 65–5 4.0,3.8 **¶17192707**
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=14.2km az=52.0.
ISC III 17 15 46 27.9–.82 10.4S–.10 78.5W–.10 35 3.8b 17 2-145
IDC III 17 15 46 20.7–1.8 10.32S 77.57W 0 4.2,3.9 **¶16478944**
ISCJB III 17 15 46 26.8–.86 10.2S–.10 78.4W–.10 33 3.8b,3.9
NEIC III 17 15 46 33.0–1.5 10.51S 78.13W 93–14 4.3,3.9
ISC Event type fe.
IDC Error ellipse: s-maj=117.6km s-min=43.9km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=23.5km s-min=8.1km az=145.2.
NEIC Event type fe. Error ellipse: s-maj=27.6km s-min=13.6km az=64.0. Felt [II] at Huarmey.
ISC III 19 23 52 45.7–1.1 14.2S–.10 76.5W–.10 30 4.2b,3.5s 16 2-146
IDC III 19 23 52 39.8–3.0 14.53S 76.74W 0 4.1b,4.0 **¶16479314**
ISCJB III 19 23 52 43.9–.90 14.19S–.09 76.44W–.08 30 4.1b,3.7s
NEIC III 19 23 52 47.7–1.7 14.05S 76.39W 44–10 4.2b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=103.2km s-min=33.1km az=38.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=8.4km az=36.2.
NEIC Event type se. Error ellipse: s-maj=26.2km s-min=7.1km az=219.0.
ISC III 20 01 55 57.5–.73 14.19S–.07 76.54W–.10 30 4.1b,3.3s 23 2-146
IDC III 20 01 55 51.7–2.2 14.87S 76.93W 0 4.1,4.0 **¶16479615**
ISCJB III 20 01 55 55.7–.56 14.22S–.06 76.53W–.07 30 4.1b,3.3s
NEIC III 20 01 55 58.2–.55 14.20S 76.57W 35 4.1b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=80.6km s-min=23.1km az=40.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=7.2km az=145.8.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=8.8km az=56.0.
ISC III 21 06 48 26.8–.75 14.46S–.07 76.69W–.08 10 4.2b,3.8s 54 2-147
SCB III 21 06 48 22.5–.53 13.91S 76.84W 45 4.1L,3.8s **¶16479933**
ISCJB III 21 06 48 24.9–.62 14.59S–.06 76.82W–.06 10 4.3b,3.7s
IDC III 21 06 48 24.9–.90 14.56S 76.76W 0 4.3,4.2
NEIC III 21 06 48 26.6–.75 14.55S 76.72W 10 4.4b,4.2
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=19.2km s-min=11.2km az=6.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.7km az=137.1.
IDC Error ellipse: s-maj=27.3km s-min=14.6km az=43.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=9.1km az=47.0.
ISC III 23 10 55 11.0–.56 14.02S–.08 75.45W–.08 66 4.6b 242 2-169
SCB III 23 10 55 08.9–.48 13.91S 75.39W 55 4.0L **¶16357296**
ISCJB III 23 10 55 08.9–.31 14.07S–.06 75.49W–.05 66 4.5b
BJI III 23 10 55 09.6 14.10S 75.40W 56 5.2b
NEIC III 23 10 55 09.8–.83 14.07S 75.41W 58–7 4.7b
IDC III 23 10 55 10.8–3.1 14.12S 75.50W 70–25 4.3,4.2
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=30.6km s-min=10.5km az=22.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.9km az=38.1.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=4.7km az=222.0. Felt [III] at Ica. Also felt at Lima, San Juan Bautista and Santiago.
IDC Error ellipse: s-maj=28.4km s-min=13.4km az=44.0.
IDC III 24 19 20 46.8–8.7 14.32S 76.68W 0 4.0,3.9L
¶17198397
IDC Error ellipse: s-maj=363.0km s-min=32.6km az=29.0.
IDC IV 04 13 55 27.2–6.0 16.27S 74.16W 0 4.0,3.7
¶17199777
IDC Error ellipse: s-maj=214.1km s-min=30.6km az=19.0.
ISC IV 08 02 30 49.1–1.5 17.67S–.07 70.9W–.10 20–7 17 1-125
IDC IV 08 02 30 41.8–2.2 18.80S 70.97W 0 3.9,3.5 **¶17200190**
GUC IV 08 02 30 51.8–.47 17.88S 70.94W 46–2 4.0L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=72.2km s-min=40.9km az=157.0.
GUC Error ellipse: s-maj=4.7km s-min=5.6km az=-1.0.
ISC IV 12 09 30 08.1–.81 16.5S–.10 73.65W–.09 39 4.0b,3.7s 25 5-149
SCB IV 12 09 29 51.8–.93 15.87S 74.62W 42 3.9L,3.7s **¶16587471**
ISCJB IV 12 09 30 06.3–.81 16.5S–.10 73.83W–.09 39 4.0b,3.6s
NEIC IV 12 09 30 08.5–1.3 16.43S 73.56W 45–11 4.4,3.6s
IDC IV 12 09 30 09.0–2.5 16.45S 73.53W 48–22 4.1,4.0
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=23.0km s-min=17.4km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=17.3km s-min=9.1km az=32.7.
NEIC Event type fe. Error ellipse: s-maj=15.3km s-min=9.9km az=213.0. Felt [II] at Atico.
IDC Error ellipse: s-maj=25.3km s-min=18.0km az=44.0.
ISC IV 12 13 31 05.5–.90 17.18S–.07 72.18W–.08 66 19 3-86
ISCJB IV 12 13 31 04.5–.67 17.20S–.06 72.24W–.06 66 3.6b **¶17200781**
GUC IV 12 13 31 08.2–.34 17.29S 71.81W 132–24 4.7L
IDC IV 12 13 31 09.6–4.3 16.79S 72.03W 100–24 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.0km az=139.7.
GUC Error ellipse: s-maj=3.9km s-min=11.2km az=-1.0.
IDC Error ellipse: s-maj=66.4km s-min=13.3km az=19.0.
ISC IV 17 09 57 29.4–.64 16.6S–.10 72.68W–.10 100 4.2b 30 4-149
ISCJB IV 17 09 57 27.8–.61 16.49S–.09 72.69W–.08 100 4.2b **¶602945437**
IDC IV 17 09 57 30.7–2.1 16.50S 72.75W 114–17 4.3,4.1
NEIC IV 17 09 57 31.4–1.2 16.53S 72.62W 120–10 4.3b,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=8.7km az=37.6.
IDC Error ellipse: s-maj=22.2km s-min=14.3km az=39.0.
NEIC Event type fe. Error ellipse: s-maj=15.1km s-min=10.6km az=212.0. Felt [III] at Aplao and [II] at Arequipa, Camana, Chuquibamba and Ocona.
NEIC IV 21 16 11 09.0 15.93S 74.76W 35 4.2L
¶16631149
NEIC Event type fe. Felt [II] at Lomas and Yauca. After ARE.
ISC IV 24 14 51 32.8–.67 13.79S–.10 76.2W–.10 49 4.1b 28 2-146
ISCJB IV 24 14 51 31.0–.75 13.77S–.09 76.2W–.10 49 4.2b **¶16681481**
NEIC IV 24 14 51 33.4–.59 13.67S 76.15W 48 4.2
IDC IV 24 14 51 33.6–.66 13.75S 76.51W 50–5 4.0,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=17.6km s-min=8.2km az=139.4.
NEIC Event type fe. Error ellipse: s-maj=18.0km s-min=10.4km az=224.0. Felt [III] at Chincha Alta, Pisco and Tambo de Mora.
IDC Error ellipse: s-maj=19.4km s-min=9.1km az=69.0.
IDC IV 24 21 27 42.3–4.2 17.58S 72.27W 0 3.9,3.7
¶17201986
IDC Error ellipse: s-maj=146.2km s-min=42.7km az=10.0.
NEIC IV 25 00 25 05.0 13.73S 76.38W 48 4.0b
¶16684737
NEIC Event type fe. Felt [II] at Pisco. After ARE.
ISC IV 29 06 14 33.9–.86 10.10S–.08 78.8W–.10 52 3.7b 21 3-136
ISCJB IV 29 06 14 32.0–.87 10.12S–.06 79.0W–.10 52 3.6b,3.1s **¶17202352**
IDC IV 29 06 14 33.3–1.1 9.97S 78.76W 42–6 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=6.4km az=154.2.

IDC Error ellipse: s-maj=38.5km s-min=18.2km az=39.0.
ISC V 02 15 30 41.7–.95 16.39S–.09 74.48W–.10 35 14 5-149
ISCJB V 02 15 30 38.5–.81 16.54S–.08 74.61W–.08 33 3.6b,3.4s **¶16708614**
NEIC V 02 15 30 38.7–1.0 16.43S 74.65W 16–6 4.1L,3.4s
IDC V 02 15 30 44.9–2.6 16.19S 74.34W 78–20 3.9,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=5.7km az=44.3.
NEIC Event type fe. Error ellipse: s-maj=31.4km s-min=9.0km az=224.0. Felt [II] at Yauca.
IDC Error ellipse: s-maj=36.3km s-min=13.4km az=35.0.
IDC V 05 04 17 15.5–27 17.20S 70.51W 169–114 3.2,3.0
¶17202817

IDC Error ellipse: s-maj=557.6km s-min=52.9km az=24.0.
ISC V 07 10 33 45.3–.45 15.36S–.06 74.52W–.07 73–3 5.0b 572 3-170
SCB V 07 10 33 32.4–1.1 14.92S 75.20W 59 4.4L **¶16498446**
ISCJB V 07 10 33 43.2–.24 15.13S–.04 74.22W–.05 64 5.0b
NEIC V 07 10 33 45.2–.18 15.10S 74.23W 60 5.0b
BJI V 07 10 33 45.3 15.10S 74.20W 60 5.4s,5.2b
GCMT V 07 10 33 45.1–.50 15.48S 74.42W 37–3 4.9W,5.2b
MOS V 07 10 33 46.1–1.2 15.08S 74.34W 83 4.9b,5.2b
IDC V 07 10 33 46.6–1.8 15.25S 74.30W 81–16 4.6,4.5
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=85.2km s-min=23.3km az=6.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=3.6km az=54.0. Felt [IV] at Acari and Yauca and [II] at Nazca.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c19; s67,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.53±.20 $M_{\theta\theta}$-1.34±.12; $M_{\phi\phi}$1.87±.19; $M_{r\theta}$-1.26±.16; $M_{\theta\phi}$1.66±.12; $M_{\phi r}$0.70±.22; Best double couple: NP1:ϕ_s162.00000°,δ71.00000°,λ-155.00000°. NP2:ϕ_s63.00000°,δ66.00000°,λ-21.00000°. Principal axes: T 2.5830,Plg3.0000°,Azm292.0000°; N 0.3300,Plg59.0000°,Azm197.0000°; P -2.9070,Plg31.0000°,Azm24.0000° M_o2.74500×10^{16}
MOS Error ellipse: s-maj=15.9km s-min=6.5km az=120.9.
IDC Error ellipse: s-maj=22.0km s-min=11.9km az=52.0.
GUC V 07 16 47 16.6–.87 16.19S 72.50W 160–32 4.8L
¶601517354

GUC Error ellipse: s-maj=5.6km s-min=15.6km az=-1.0.
ISC V 08 10 10 31.5–1.1 14.5S–.10 76.5W–.20 23 3.8b 10 3-147
IDC V 08 10 10 28.5–1.4 14.35S 76.41W 0 4.2,4.1 **¶17203039**
ISCJB V 08 10 10 29.7–1.3 14.5S–.10 76.6W–.20 23 3.9b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 03 43 58.5–.65 17.50S–.06 72.73W–.06 29 4.3b 38 3-153
SCB V 19 03 43 45.8–1.0 17.31S 73.31W 32 4.4L **¶17203940**
ISCJB V 19 03 43 57.7–.77 17.56S–.06 72.72W–.07 29 4.0b,3.9s
IDC V 19 03 44 02.2–2.3 17.54S 72.50W 57–21 4.2,4.1
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=26.0km s-min=11.9km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.8km az=161.9.
IDC Error ellipse: s-maj=27.9km s-min=17.3km az=58.0.
IDC V 19 08 22 51.9–4.0 17.53S 70.73W 91–32 3.5,3.3
¶17203952

IDC Error ellipse: s-maj=56.5km s-min=22.3km az=97.0.
IDC V 27 10 22 20.1–2.6 14.67S 75.41W 87–18 3.5,3.3
¶17204559

IDC Error ellipse: s-maj=64.2km s-min=14.2km az=49.0.
ISC V 27 22 07 53.1–.78 14.11S–.09 76.4W–.10 30 4.1b 21 2-146
NEIC V 27 22 07 48.0 14.59S 76.61W 28 4.2L,4.1b **¶16640724**
IDC V 27 22 07 56.3–3.9 14.24S 76.07W 35–31 3.7,3.7
ISC Event type fe.
NEIC Event type fe. Felt [III] at Ica. After ARE.
IDC Error ellipse: s-maj=35.4km s-min=19.1km az=55.0.
ISC V 29 18 00 28.7–1.1 14.5S–.10 76.2W–.20 23 3.9b 13 3-147
IDC V 29 18 00 25.1–1.3 14.53S 76.28W 0 4.2,4.1 **¶17204713**
ISCJB V 29 18 00 26.7–.00 14.56S–.10 76.2W–.20 23 4.0s,3.9b
ISC Event type ke.
ISCJB Event type ke.
GUC V 30 07 35 54.5–.29 16.35S 72.15W 182–17 4.3L
¶601517551

GUC Error ellipse: s-maj=7.8km s-min=9.7km az=-1.0.
ISC VI 03 14 51 34.0–.88 16.02S–.08 74.04W–.09 54 16 5-135
NEIC VI 03 14 51 35.0 15.93S 73.98W 70 4.0 **¶16856195**
IDC VI 03 14 51 37.2–2.5 15.86S 73.88W 76–23 4.3,4.0
ISC Event type fe.
NEIC Event type fe. Felt [III] at Chala. After ARE.
IDC Error ellipse: s-maj=39.6km s-min=25.9km az=47.0.
IDC VI 04 09 30 08.3–4.1 16.29S 72.13W 150–34 3.6,3.3
¶17205176

IDC Error ellipse: s-maj=42.2km s-min=22.7km az=116.0.
ISC VI 13 23 47 29.7–1.1 10.14S–.09 78.8W–.20 55 3.6b 10 3-144
ISCJB VI 13 23 47 27.7–1.2 10.21S–.08 79.0W–.10 55 3.6b,2.9s **¶17206074**
IDC VI 13 23 47 31.6–2.1 10.08S 78.64W 74–17 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=7.7km az=155.9.
IDC Error ellipse: s-maj=35.8km s-min=7.8km az=70.0.
NEIC VI 18 00 50 21.0 15.66S 74.44W 68 4.0b
¶602918661

NEIC Event type fe. Felt [II] at Chala. After ARE.
ISC VI 18 01 16 06.2–1.1 15.9S–.10 74.5W–.20 49 8 5-81
ISCJB VI 18 01 16 03.8–1.3 16.0S–.10 74.6W–.20 49 3.6s,3.3b **¶17206428**
IDC VI 18 01 16 06.8–2.2 15.89S 74.52W 64–20 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.0km s-min=8.1km az=138.2.
IDC Error ellipse: s-maj=50.4km s-min=12.7km az=48.0.
NEIC VI 30 13 59 05.0 13.47S 76.30W 77 4.1
¶602918853

NEIC Event type fe. Felt [II] at Chincha Alta and Tambo de Mora. After ARE.

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ISC I 01 20 27 45.7–.82 14.8S–.10 72.08W–.10 124 3.6b 15 4-147
ISCJB I 01 20 27 43.6–.84 14.8S–.10 72.2W–.10 124 3.6b **¶17189156**
IDC I 01 20 27 46.4–2.4 14.81S 72.09W 132–22 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=9.6km az=43.2.
IDC Error ellipse: s-maj=31.2km s-min=18.8km az=32.0.
ISC I 16 08 09 21.5–.61 14.96S–.09 71.82W–.09 133 3.5b 18 4-152
ISCJB I 16 08 09 19.5–.56 14.93S–.07 71.84W–.08 133 3.6b **¶17190306**
IDC I 16 08 09 20.6–1.9 14.83S 71.72W 114–18 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=6.7km az=44.6.
IDC Error ellipse: s-maj=25.0km s-min=18.1km az=24.0.
ISC I 16 17 28 14.3–.84 12.8S–.20 73.3W–.10 35 3.6b 10 4-82
SCB I 16 17 28 05.9–.24 13.80S 74.14W 110 3.6L **¶17190340**
ISCJB I 16 17 28 12.1–.64 12.7S–.20 73.24W–.09 33 3.6b
IDC I 16 17 28 14.7–2.5 13.04S 73.37W 50–55 4.1L,3.9
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=28.4km s-min=5.0km az=20.0.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=6.4km az=26.5.
IDC Error ellipse: s-maj=148.2km s-min=14.2km az=20.0.
SCB I 18 03 05 29.5–.52 11.60S 72.33W 150 3.6L
¶602401242

SCB Event type ke. Error ellipse: s-maj=69.1km s-min=11.8km az=46.0.
ISC I 18 06 42 59.3–1.3 9.8S–.40 75.3W–.30 41 3.5b 7 4-80
IDC I 18 06 43 00.0–3.0 10.25S 75.73W 66–30 3.5,3.5 **¶17190461**
ISC Event type ke.
IDC Error ellipse: s-maj=118.2km s-min=22.3km az=38.0.
ISC I 22 02 06 51.8–.32 12.27S–.05 73.08W–.06 35 5.1b,4.7s 494 4-173
IDC I 22 02 06 45.5–.57 12.25S 73.19W 0 4.5,4.5 **¶15957994**
ISCJB I 22 02 06 49.6–.20 12.16S–.03 73.00W–.03 33 5.0b,4.6s
NEIC I 22 02 06 51.7–1.3 12.15S 73.06W 34–9 5.1b,5.0L
GCMT I 22 02 06 51.1–.30 12.14S 72.99W 36–1 5.0W,5.0L

BJI I 22 02 06 53.5 12.10S 73.00W 23 5.5,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=22.7km s-min=12.7km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=139.1.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=57.0. Felt [II] at Quillabamba. Also felt at Santa Ana.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c52; s61,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.93±.21 $M_{\theta\theta}$-1.38±.14; $M_{\phi\phi}$-1.56±.18; $M_{r\theta}$-1.90±.15; $M_{\theta\phi}$2.26±.08; $M_{\phi r}$1.28±.19; Best double couple: NP1:ϕ_s308.00000°,δ63.00000°,λ81.00000°. NP2:ϕ_s147.00000°,δ29.00000°,λ107.00000°. Principal axes: T 3.6870,Plg71.0000°,Azm197.0000°; N 0.7220,Plg8.0000°,Azm312.0000°; P -4.4180,Plg17.0000°,Azm45.0000° M_o4.05300×10^{16}
ISC I 31 05 24 36.7–.80 14.55S–.10 74.0W–.10 91 3.6b 18 6-147
ISCJB I 31 05 24 35.1–.73 14.52S–.08 74.0W–.10 91 3.6b **¶17191388**
SCB I 31 05 24 35.7–.54 13.96S 73.63W 115 3.6L
IDC I 31 05 24 39.1–2.3 14.41S 73.80W 105–21 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=6.3km az=142.6.
SCB Event type ke. Error ellipse: s-maj=46.3km s-min=10.7km az=18.0.
IDC Error ellipse: s-maj=42.5km s-min=16.8km az=48.0.
ISC II 01 13 26 04.4–.47 10.71S–.06 76.44W–.10 100 4.7b 306 1-146
ISCJB II 01 13 26 01.7–.39 10.66S–.06 76.10W–.06 100 4.6b **¶16021070**
NEIC II 01 13 26 05.3–.63 10.69S 76.29W 112–6 4.7b
IDC II 01 13 26 06.7–1.6 10.60S 76.26W 124–13 4.5,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.6km az=144.3.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.3km az=52.0. Felt [II] at Lima. Also felt at Barranca.
IDC Error ellipse: s-maj=22.0km s-min=10.6km az=52.0.
ISC II 01 23 51 16.2–.75 10.8S–.10 74.64W–.09 35 3.6b 12 2-138
IDC II 01 23 51 11.3–1.1 10.69S 74.64W 0 3.9,3.8 **¶17191519**
ISCJB II 01 23 51 14.6–.59 10.82S–.08 74.59W–.06 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 03 00 18 02.0–.82 11.08S–.09 73.88W–.08 105 3.5b 11 3-80
ISCJB II 03 00 18 00.3–.73 11.12S–.09 73.84W–.06 105 3.4b **¶17191566**
IDC II 03 00 18 03.1–1.5 11.16S 74.01W 132–21 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.8km az=1.7.
IDC Error ellipse: s-maj=22.8km s-min=15.7km az=38.0.
SCB II 08 06 12 52.3–.93 13.81S 71.67W 147 3.8L
¶602340750

SCB Event type ke. Error ellipse: s-maj=55.5km s-min=22.5km az=30.0.
ISC II 17 10 31 07.3–.59 14.88S–.10 73.6W–.10 98 4.2b 27 4-151
ISCJB II 17 10 31 05.8–.55 14.90S–.08 73.55W–.10 98 4.1b **¶16398399**
NEIC II 17 10 31 05.6–.90 14.86S 73.51W 76–8 4.0b
IDC II 17 10 31 05.5–2.4 14.76S 73.54W 72–19 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=8.2km az=141.1.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.7km az=49.0.
IDC Error ellipse: s-maj=31.9km s-min=13.4km az=28.0.
ISC II 18 19 38 38.7–.71 14.9S–.10 71.68W–.09 133 3.7b 26 4-152
SCB II 18 19 38 35.1–.45 14.86S 71.64W 135 3.6L **¶17192501**
ISCJB II 18 19 38 37.0–.63 15.04S–.10 71.74W–.08 133 3.8b
IDC II 18 19 38 38.8–1.5 14.89S 71.58W 128–14 4.2,4.0
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=31.0km s-min=10.1km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=6.7km az=36.0.
IDC Error ellipse: s-maj=24.2km s-min=11.8km az=34.0.
IDC II 22 04 44 11.2–2.0 11.80S 74.50W 0 3.9,3.7b
¶17192677

IDC Error ellipse: s-maj=80.0km s-min=33.9km az=25.0.
IDC II 22 08 30 31.6–8.1 14.06S 74.34W 86–62 3.6L,3.5
¶17192688

IDC Error ellipse: s-maj=252.7km s-min=41.3km az=31.0.
IDC II 26 17 02 38.5–8.5 11.53S 76.87W 104–57 3.6,3.5
¶17192912

IDC Error ellipse: s-maj=93.9km s-min=33.5km az=31.0.
IDC III 07 17 18 39.0–2.8 12.73S 70.67W 0 3.8b,3.7
¶17193424

IDC Error ellipse: s-maj=42.3km s-min=22.8km az=70.0.
IDC III 08 01 43 51.7–7.1 13.00S 75.94W 0 3.7,3.7b
¶17193445

IDC Error ellipse: s-maj=291.5km s-min=50.3km az=34.0.
ISC IV 02 05 24 12.9–.97 9.1S–.30 74.5W–.20 145 3.2b 6 4-79
ISCJB IV 02 05 24 12.2–.91 8.9S–.20 74.4W–.20 145 3.1b **¶17199499**
IDC IV 02 05 24 13.3–3.2 9.09S 74.51W 148–64 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.5km s-min=12.4km az=37.3.
IDC Error ellipse: s-maj=173.1km s-min=19.2km az=36.0.
ISC IV 06 20 21 42.3–1.3 9.6S–.20 75.6W–.20 41 4.3b 9 4-145
ISCJB IV 06 20 21 40.3–1.2 9.6S–.20 75.7W–.20 41 4.2b,3.8s **¶17200047**
IDC IV 06 20 21 46.2–2.3 9.68S 75.51W 78–19 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.8km s-min=14.5km az=44.9.
IDC Error ellipse: s-maj=57.7km s-min=14.4km az=35.0.
IDC IV 11 12 05 53.2–24 11.47S 75.83W 394–193 3.8,3.2
¶17200604

IDC Error ellipse: s-maj=767.2km s-min=31.3km az=29.0.
ISC IV 19 22 42 05.0–.75 12.9S–.10 75.2W–.10 96 3.8b 13 2-145
ISCJB IV 19 22 42 03.7–.65 12.9S–.10 75.17W–.09 96 3.9b **¶17201557**
IDC IV 19 22 42 05.2–1.3 12.93S 75.23W 99–13 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=8.1km az=33.4.
IDC Error ellipse: s-maj=26.8km s-min=12.9km az=38.0.
ISC IV 25 04 30 57.7–.40 11.88S–.04 72.16W–.04 10 4.7b 77 2-166
ISCJB IV 25 04 30 56.9–.28 11.93S–.04 72.13W–.04 10 4.5b,3.5s **¶16544901**
IDC IV 25 04 30 56.7–.63 11.88S 72.10W 0 4.3,4.2
NEIC IV 25 04 31 00.5–1.4 11.98S 72.18W 24–10 4.8b,4.7L
BJI IV 25 04 31 01.5 11.90S 72.10W 25 5.3,5.3s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.9km az=139.9.
IDC Error ellipse: s-maj=21.4km s-min=12.3km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.1km az=222.0. Felt at Urcos.
ISC IV 26 16 07 10.2–.94 14.8S–.10 72.48W–.09 114 18 4-78
ISCJB IV 26 16 07 09.7–.65 14.9S–.10 72.58W–.07 114 4.0b **¶16577899**
SCB IV 26 16 07 09.6–.71 14.69S 72.29W 115 3.6L
IDC IV 26 16 07 10.6–1.6 14.84S 72.53W 124–15 4.4,4.0
NEIC IV 26 16 07 10.4–1.1 14.96S 72.63W 127–16 4.5b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=5.6km az=32.1.
SCB Event type ke. Error ellipse: s-maj=18.2km s-min=13.1km az=138.0.
IDC Error ellipse: s-maj=46.3km s-min=11.2km az=28.0.
NEIC Event type se. Error ellipse: s-maj=25.0km s-min=13.1km az=47.0.
ISC IV 29 03 40 32.1–.97 11.3S–.10 75.4W–.10 35 8 2-80
ISCJB IV 29 03 40 30.6–.76 11.2S–.10 75.30W–.08 33 3.1b **¶17202343**
IDC IV 29 03 40 31.1–2.5 11.39S 75.47W 35–27 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=11.2km az=22.6.
IDC Error ellipse: s-maj=28.0km s-min=20.4km az=48.0.
ISC V 08 17 20 45.7–1.5 14.5S–.30 73.1W–.20 83 3.4b 9 4-147
ISCJB V 08 17 20 44.8–1.2 14.4S–.20 73.1W–.10 83 3.2b **¶17203058**
IDC V 08 17 20 45.7–2.2 14.57S 73.17W 91–16 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.0km s-min=7.2km az=26.5.
IDC Error ellipse: s-maj=65.2km s-min=11.4km az=27.0.
ISC V 14 17 22 40.8–.94 13.23S–.08 71.46W–.10 35 24 3-145
SCB V 14 17 22 24.4–.52 12.63S 72.30W 65 4.2L **¶16709874**
IDC V 14 17 22 38.8–1.4 13.29S 71.19W 0 4.4,4.3
ISCJB V 14 17 22 39.5–.79 13.22S–.05 71.40W–.08 33 4.2b,4.3

NEIC V 14 17 22 40.1–.88 13.31S 71.62W 35 4.2b,4.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=15.1km s-min=9.9km az=73.0.
IDC Error ellipse: s-maj=41.7km s-min=18.8km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.9km az=179.3.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=9.8km az=92.0.
ISC V 15 04 46 01.8–.98 12.1S–.10 73.54W–.09 35 7 3-81
ISCJB V 15 04 45 59.4–.93 12.0S–.20 73.6W–.10 33 3.4b **¶17203664**
IDC V 15 04 46 02.4–2.3 12.22S 73.75W 60–29 3.7,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.3km s-min=12.4km az=26.1.
IDC Error ellipse: s-maj=51.7km s-min=23.5km az=25.0.
ISC V 15 06 33 28.1–.53 8.62S–.06 75.02W–.08 136 3.9b 33 4-132
ISCJB V 15 06 33 27.0–.36 8.60S–.04 75.04W–.05 136 3.8b **¶17203671**
IDC V 15 06 33 27.0–1.6 8.60S 75.00W 124–17 4.2,3.9
SCB V 15 06 34 17.5–.63 11.35S 71.89W 150 3.5L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.1km az=150.9.
IDC Error ellipse: s-maj=19.8km s-min=9.6km az=53.0.
SCB Event type ke. Error ellipse: s-maj=17.6km s-min=9.0km az=106.0.
ISC V 17 23 50 47.7–.73 10.83S–.08 73.79W–.06 100 3.5b 14 3-80
ISCJB V 17 23 50 45.5–.65 10.89S–.07 73.81W–.04 100 3.4b **¶17203846**
IDC V 17 23 50 49.6–1.9 10.93S 74.06W 126–20 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.2km az=1.9.
IDC Error ellipse: s-maj=22.1km s-min=14.7km az=48.0.
IDC V 20 11 58 19.7–1.6 13.32S 72.67W 0 3.8,3.7
¶17204038
IDC Error ellipse: s-maj=47.1km s-min=18.1km az=30.0.
ISC V 20 12 29 12.1–.93 14.7S–.10 70.9W–.10 100 3.4b 9 3-146
ISCJB V 20 12 29 10.7–.91 14.6S–.10 70.8W–.10 100 3.3b **¶17204041**
IDC V 20 12 29 13.7–3.3 14.67S 70.77W 114–38 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=13.9km az=145.8.
IDC Error ellipse: s-maj=40.9km s-min=35.3km az=172.0.
ISC VI 02 20 51 55.6–1.2 8.8S–.30 75.3W–.30 120 3.6b 7 10-139
ISCJB VI 02 20 51 54.0–1.6 8.7S–.30 75.3W–.40 120 3.6b **¶17205023**
IDC VI 02 20 51 54.2–5.0 8.62S 75.25W 104–52 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=67.4km s-min=18.3km az=139.7.
IDC Error ellipse: s-maj=74.5km s-min=24.5km az=32.0.
NEIC VI 11 22 15 59.0 8.86S 75.99W 24 4.2b,4.1L
¶602918605
NEIC Event type fe. Felt [III] at Aucayacu. After ARE.
ISC VI 14 16 25 05.9–.45 9.74S–.06 74.62W–.07 130 4.1b 47 3-150
ISCJB VI 14 16 25 04.7–.37 9.73S–.05 74.59W–.05 130 3.9b **¶16601810**
IDC VI 14 16 25 05.5–.67 9.75S 74.60W 126–6 4.1,3.9
NEIC VI 14 16 25 06.3–.75 9.72S 74.59W 132–7 4.3b,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=30.2.
IDC Error ellipse: s-maj=12.3km s-min=10.8km az=61.0.
NEIC Event type fe. Error ellipse: s-maj=10.8km s-min=7.0km az=215.0. Felt [III] at Pucallpa. Also felt at Campoverde, Huanuco and Tingo Maria.
ISC VI 15 14 16 53.3–.52 14.96S–.09 72.09W–.07 124 4.2b 57 4-159
SCB VI 15 14 16 47.5–.52 14.72S 72.08W 126 4.0L **¶16617369**
NEIC VI 15 14 16 49.5–.59 15.11S 72.05W 92–6 4.4b
IDC VI 15 14 16 51.9–1.9 14.97S 72.05W 109–15 4.3,4.1
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=12.9km s-min=9.0km az=133.0.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=58.0. Felt at Chivay.
IDC Error ellipse: s-maj=23.7km s-min=12.5km az=32.0.
IDC VI 21 01 55 10.5–2.5 13.63S 73.07W 0 4.0,4.0L
¶17206643
IDC Error ellipse: s-maj=72.6km s-min=31.0km az=32.0.
ISC VI 22 07 52 11.4–.57 11.29S–.06 73.39W–.06 10 3.7b 27 3-135
ISCJB VI 22 07 52 09.3–.46 11.30S–.05 73.39W–.04 10 3.9b **¶16731213**
IDC VI 22 07 52 09.7–.97 11.17S 73.33W 0 4.1,3.9L
NEIC VI 22 07 52 11.8–2.6 11.27S 73.40W 15–18 4.5b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.7km az=17.7.
IDC Error ellipse: s-maj=30.4km s-min=16.7km az=34.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=220.0.
ISC VI 26 07 44 25.4–.84 11.5S–.10 72.53W–.08 35 3.7b 14 4-78
SCB VI 26 07 43 39.6–.48 8.84S 73.84W 40 4.8L **¶17206966**
IDC VI 26 07 44 19.9–1.2 11.66S 72.52W 0 3.9,3.9
ISCJB VI 26 07 44 23.2–.57 11.52S–.08 72.55W–.05 33 3.7b,3.9
ISC Event type ke.
SCB Event type ke.
ISCJB Event type ke.
ISC VI 26 17 11 06.7–.77 14.43S–.10 73.26W–.09 86 3.4b 13 4-147
ISCJB VI 26 17 11 05.1–.63 14.39S–.09 73.24W–.07 86 3.4b **¶17207011**
IDC VI 26 17 11 06.7–1.8 14.23S 73.15W 72–19 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=6.2km az=36.9.
IDC Error ellipse: s-maj=29.6km s-min=12.7km az=32.0.
SCB VI 29 07 15 05.1–.46 12.55S 69.52W 25 3.6L
¶603051894
SCB Event type ke. Error ellipse: s-maj=37.5km s-min=9.7km az=73.0.

(117) Southern Peru.

ISC I 17 19 48 42.6–.96 15.4S–.10 70.7W–.10 193 8 3-148
ISCJB I 17 19 48 41.8–.90 15.3S–.10 70.7W–.10 193 3.2b **¶17190424**
IDC I 17 19 48 43.0–1.3 15.40S 70.61W 196–13 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=10.9km az=34.6.
IDC Error ellipse: s-maj=29.6km s-min=18.5km az=19.0.
ISC I 22 21 31 20.3–.63 15.65S–.09 70.38W–.07 200 3.9b 22 2-148
ISCJB I 22 21 31 18.7–.52 15.54S–.08 70.23W–.07 200 3.8b **¶17190766**
SCB I 22 21 31 20.6–.42 15.39S 69.97W 200 4.1L
IDC I 22 21 31 22.4–.99 15.33S 70.04W 216–9 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=6.8km az=40.3.
SCB Event type ke. Error ellipse: s-maj=18.3km s-min=11.5km az=25.0.
IDC Error ellipse: s-maj=29.9km s-min=13.6km az=26.0.
ISC II 08 13 24 17.1–.84 16.84S–.08 70.80W–.09 150 3.7b 16 3-148
ISCJB II 08 13 24 15.7–.86 16.79S–.07 70.86W–.09 150 3.5b **¶17191896**
SCB II 08 13 24 17.3–.48 16.52S 70.64W 127 3.9L
IDC II 08 13 24 18.5–2.2 16.71S 70.70W 156–19 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.7km az=8.4.
SCB Event type ke. Error ellipse: s-maj=25.1km s-min=10.8km az=174.0.
IDC Error ellipse: s-maj=27.5km s-min=18.1km az=111.0.
ISC II 09 23 58 21.6–.82 16.93S–.08 71.06W–.08 100 3.4b 11 3-149
ISCJB II 09 23 58 19.3–.78 17.01S–.07 71.13W–.07 100 3.4b **¶17191977**
IDC II 09 23 58 22.7–1.7 16.79S 70.99W 110–13 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.2km az=34.6.
IDC Error ellipse: s-maj=27.5km s-min=13.3km az=13.0.
ISC II 14 08 58 29.7–.64 16.4S–.10 71.24W–.07 112 4.0b 35 3-149
ISCJB II 14 08 58 27.7–.64 16.24S–.09 71.10W–.09 112 3.9b **¶17192231**
SCB II 14 08 58 28.8–.28 16.32S 71.18W 100 4.1L
IDC II 14 08 58 30.9–1.5 16.36S 71.17W 123–12 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=7.7km az=40.6.
SCB Event type ke. Error ellipse: s-maj=11.5km s-min=5.9km az=180.0.
IDC Error ellipse: s-maj=19.7km s-min=11.2km az=25.0.
ISC II 21 15 54 02.7–1.1 15.4S–.20 71.6W–.10 142 3.9b 13 3-148
ISCJB II 21 15 54 01.4–.96 15.4S–.20 71.59W–.10 142 3.7b **¶17192640**
IDC II 21 15 54 02.9–1.6 15.38S 71.55W 140–12 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.5km s-min=7.0km az=27.6.
IDC Error ellipse: s-maj=40.6km s-min=10.9km az=26.0.
IDC II 28 04 05 14.0–7.0 15.22S 72.43W 104–47 3.6,3.4
¶17192978
IDC Error ellipse: s-maj=236.1km s-min=51.3km az=22.0.
ISC III 11 02 34 20.0–1.4 15.61S–.09 70.6W–.10 208–13 3.6b 42 2-148
SCB III 11 02 34 20.3–.50 15.31S 70.03W 200 3.7L **¶17193672**
IDC III 11 02 34 21.1–1.3 15.33S 70.29W 210–12 4.0,3.6
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=21.4km s-min=12.3km az=42.0.
IDC Error ellipse: s-maj=20.6km s-min=17.1km az=59.0.
IDC III 12 21 07 20.1–8.8 16.48S 71.92W 0 3.8,3.6
¶17194602
IDC Error ellipse: s-maj=343.9km s-min=39.7km az=18.0.
ISC III 25 01 50 49.9–.93 15.3S–.10 70.0W–.10 224 3.1b 19 2-147
SCB III 25 01 50 47.2–.62 15.27S 70.04W 200 3.8L **¶17198437**
ISCJB III 25 01 50 48.6–.85 15.2S–.10 70.1W–.10 224 3.0b
IDC III 25 01 50 49.3–1.6 15.48S 70.14W 223–16 3.6,3.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=16.2km s-min=11.6km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=22.5km s-min=8.5km az=136.5.
IDC Error ellipse: s-maj=43.4km s-min=26.9km az=24.0.
ISC III 27 03 07 32.9–1.3 15.7S–.20 72.7W–.20 114 3.4b 5 4-85
ISCJB III 27 03 07 31.4–1.1 15.6S–.20 72.7W–.20 114 3.4b **¶17198718**
IDC III 27 03 07 43.9–4.4 15.75S 72.10W 227–48 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.2km s-min=21.8km az=145.6.
IDC Error ellipse: s-maj=53.1km s-min=22.5km az=102.0.
ISC IV 02 04 41 43.8–2.6 16.2S–.40 71.7W–.20 133 3.9b 7 3-78
IDC IV 02 04 41 47.3–7.6 16.11S 71.49W 153–42 4.1,3.7b **¶17199496**
ISC Event type ke.
IDC Error ellipse: s-maj=77.7km s-min=47.3km az=59.0.
ISC IV 03 05 54 58.1–1.7 15.0S–.20 72.1W–.20 124 3.7b 11 4-87
ISCJB IV 03 05 54 57.3–1.3 15.0S–.20 72.1W–.20 124 3.6b **¶17199620**
IDC IV 03 05 55 01.5–3.8 14.95S 71.99W 152–31 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.4km s-min=11.2km az=136.5.
IDC Error ellipse: s-maj=45.7km s-min=24.1km az=51.0.
IDC IV 13 07 35 22.8–7.9 15.40S 71.43W 142–62 4.0,3.6
¶17200875
IDC Error ellipse: s-maj=121.3km s-min=52.8km az=164.0.
NEIC IV 16 17 01 39.0 15.89S 72.82W 44 4.2
¶16631124
NEIC Event type fe. Felt [III] at Chuquibamba and Pampacolca. After ARE.
IDC IV 24 07 55 43.5–7.2 16.06S 71.32W 156–34 3.4,3.2
¶17201945
IDC Error ellipse: s-maj=202.7km s-min=43.2km az=18.0.
ISC V 07 19 33 33.2–.68 15.72S–.06 70.47W–.06 210–7 3.8b 46 2-153
ISCJB V 07 19 33 32.8–.42 15.84S–.05 70.52W–.06 227–6 3.7b **¶17203001**
SCB V 07 19 33 32.9–.40 15.48S 70.03W 200 4.0L
IDC V 07 19 33 33.6–.79 15.29S 70.21W 198–8 4.1,3.8
GUC V 07 19 33 35.4–.54 16.20S 70.64W 245–6 5.1L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.5km az=159.9.
SCB Event type ke. Error ellipse: s-maj=17.0km s-min=10.5km az=46.0.
IDC Error ellipse: s-maj=23.1km s-min=10.9km az=30.0.
GUC Error ellipse: s-maj=5.6km s-min=8.8km az=-1.0.
ISC V 15 03 41 52.4–.71 15.91S–.08 73.15W–.10 82 3.5b 23 4-148
SCB V 15 03 41 08.1–.28 15.08S 75.99W 10 3.7L **¶17203659**
IDC V 15 03 41 55.5–2.0 15.90S 73.15W 112–19 4.0,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=7.3km s-min=6.4km az=164.0.
IDC Error ellipse: s-maj=31.8km s-min=16.8km az=65.0.
IDC V 19 12 07 06.4–1.7 15.28S 71.28W 0 4.0,3.8b
¶17203968
IDC Error ellipse: s-maj=45.1km s-min=29.5km az=43.0.
ISC V 22 18 25 21.1–.76 16.24S–.06 71.83W–.08 100 3.6b 25 3-136
ISCJB V 22 18 25 21.0–.64 16.30S–.06 71.91W–.07 100 3.5b **¶17204253**
IDC V 22 18 25 23.8–1.8 16.13S 71.65W 132–16 4.0,3.6
GUC V 22 18 25 26.1–.52 16.61S 71.55W 166–11 4.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.1km az=138.2.
IDC Error ellipse: s-maj=19.9km s-min=17.7km az=9.0.
GUC Error ellipse: s-maj=5.6km s-min=8.5km az=-1.0.
ISC V 23 22 48 12.4–.84 15.8S–.10 71.3W–.10 133 3.5b 10 3-148
IDC V 23 22 48 09.5–2.0 15.92S 71.43W 99–20 3.7,3.5 **¶17204334**
ISCJB V 23 22 48 10.6–.79 15.78S–.09 71.3W–.10 133 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 00 56 17.8–.81 15.87S–.09 71.10W–.08 167 3.6b 11 3-85
ISCJB V 27 00 56 16.3–.72 15.85S–.08 71.14W–.07 167 3.6b **¶17204537**
IDC V 27 00 56 18.8–1.4 15.74S 70.99W 170–14 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=7.2km az=37.3.
IDC Error ellipse: s-maj=29.2km s-min=16.5km az=16.0.
SCB VI 01 00 34 23.0–.77 16.73S 70.66W 12 3.7L
¶603051883
SCB Event type ke. Error ellipse: s-maj=28.7km s-min=14.5km az=151.0.
IDC VI 06 08 28 58.6–3.0 15.12S 70.02W 198–71 3.3,3.1
¶17205397
IDC Error ellipse: s-maj=309.8km s-min=44.7km az=21.0.
ISC VI 23 12 33 03.6–.96 15.82S–.09 71.8W–.10 150 3.3b 10 4-148
ISCJB VI 23 12 33 02.0–.92 15.80S–.08 71.86W–.10 150 3.2b **¶17206817**
IDC VI 23 12 33 06.2–2.4 15.78S 71.58W 171–24 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=9.8km az=147.9.
IDC Error ellipse: s-maj=30.7km s-min=26.3km az=171.0.

(118) Peru-Bolivia border region.

IDC I 16 13 10 18.1–5.8 17.04S 69.82W 303–43 4.0,3.5
¶17190328
IDC Error ellipse: s-maj=138.5km s-min=50.5km az=63.0.
SCB I 17 13 21 12.3–.47 14.27S 68.65W 45 4.2L
¶602401241
SCB Event type ke. Error ellipse: s-maj=22.7km s-min=10.0km az=81.0.
SCB I 23 09 13 37.3–.96 11.92S 68.91W 58 3.8L
¶602401243
SCB Event type ke. Error ellipse: s-maj=96.0km s-min=20.4km az=83.0.
IDC I 26 08 11 15.1–6.8 14.50S 68.84W 98–74 4.1,3.7
¶17191019
IDC Error ellipse: s-maj=103.0km s-min=66.5km az=49.0.
ISC II 07 22 44 52.8–.78 17.75S–.05 69.33W–.08 154–8 3.8b 25 1-88
ISCJB II 07 22 44 52.1–.54 17.75S–.05 69.31W–.07 162–6 3.8b **¶17191881**
IDC II 07 22 44 53.5–1.2 17.69S 69.36W 158–12 4.1,3.7
SCB II 07 22 44 54.1–.32 17.28S 69.11W 174 3.7L,3.7
GUC II 07 22 44 55.0–.41 18.09S 69.61W 180–4 3.7L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.5km az=24.1.
IDC Error ellipse: s-maj=20.5km s-min=12.4km az=96.0.
SCB Event type ke. Error ellipse: s-maj=14.6km s-min=8.5km az=112.0.
GUC Error ellipse: s-maj=4.0km s-min=9.0km az=-1.0.
IDC II 11 06 39 45.4–3.0 14.81S 69.47W 217–60 3.6,3.2
¶17192054
IDC Error ellipse: s-maj=175.5km s-min=44.8km az=22.0.
ISC II 19 23 56 57.6–1.6 16.3S–.40 69.3W–.20 200 3.1b 12 1-148
IDC II 19 23 56 58.3–1.9 16.17S 69.24W 198–6 3.7,3.3 **¶17192558**
ISC Event type ke.
IDC Error ellipse: s-maj=83.3km s-min=16.8km az=18.0.
ISC II 22 08 13 20.1–1.8 16.4S–.40 69.2W–.20 200 3.6b 9 1-148
SCB II 22 08 13 18.0–.47 16.56S 69.01W 200 3.5L **¶17192686**
IDC II 22 08 13 21.4–2.0 16.14S 69.10W 196–9 3.8,3.4
ISC Event type ke.

SCB Event type ke. Error ellipse: s-maj=20.0km s-min=10.0km az=113.0.
IDC Error ellipse: s-maj=80.8km s-min=35.5km az=26.0.
GUC III 30 23 56 43.4–.46 17.89S 69.69W 143–3 4.0L
¶601516990
GUC Error ellipse: s-maj=3.0km s-min=4.6km az=-1.0.
ISC III 31 01 42 21.0–.93 17.81S–.05 69.74W–.10 143–7 4.0b 31 1-87
ISCJB III 31 01 42 20.5–.69 17.81S–.05 69.81W–.10 146–5 3.9b **¶17199244**
SCB III 31 01 42 21.5–.42 17.49S 69.48W 148 3.9L
GUC III 31 01 42 21.3–.51 17.91S 69.69W 140–3 3.9L
IDC III 31 01 42 23.4–2.1 17.76S 69.42W 154–14 4.4,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=5.0km az=25.1.
SCB Event type ke. Error ellipse: s-maj=14.0km s-min=3.7km az=96.0.
GUC Error ellipse: s-maj=2.9km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=33.2km s-min=21.5km az=104.0.
IDC IV 03 16 14 34.3–5.5 17.46S 69.37W 156–32 3.9,3.5
¶17199668
IDC Error ellipse: s-maj=78.0km s-min=36.8km az=22.0.
IDC IV 04 02 57 23.6–2.8 16.72S 69.50W 162–15 3.7,3.6
¶17199728
IDC Error ellipse: s-maj=51.3km s-min=31.8km az=22.0.
ISC IV 06 11 13 13.7–1.4 17.12S–.10 69.4W–.10 177–7 3.8b 21 1-87
SCB IV 06 11 13 10.9–.27 17.16S 69.10W 180 3.9L **¶17199998**
ISCJB IV 06 11 13 13.2–1.1 17.12S–.10 69.3W–.10 185–6 3.7b
IDC IV 06 11 13 13.6–1.6 17.18S 69.34W 178–9 4.0,3.6
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=8.1km s-min=3.9km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=15.7km az=5.0.
IDC Error ellipse: s-maj=28.8km s-min=21.5km az=107.0.
ISC IV 09 10 12 51.7–.99 17.52S–.07 69.5W–.10 165–8 3.9b 22 1-87
ISCJB IV 09 10 12 51.1–.71 17.55S–.06 69.5W–.10 172–5 3.5b **¶17200325**
IDC IV 09 10 12 53.5–5.2 17.51S 69.18W 170–28 3.9,3.5
GUC IV 09 10 12 53.0–.96 17.78S 69.76W 180–7 3.3L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=7.6km az=25.7.
IDC Error ellipse: s-maj=77.3km s-min=28.6km az=30.0.
GUC Error ellipse: s-maj=9.6km s-min=12.7km az=-1.0.
IDC IV 09 13 26 51.7–5.6 17.60S 69.32W 154–34 3.5,3.2
¶17200340
IDC Error ellipse: s-maj=73.6km s-min=39.2km az=28.0.
ISC IV 13 00 37 26.2–.99 17.71S–.07 69.4W–.10 157–8 3.6b 17 1-87
ISCJB IV 13 00 37 25.7–.73 17.74S–.07 69.4W–.10 163–6 3.5b **¶17200835**
GUC IV 13 00 37 27.7–.72 17.92S 69.58W 164–11 3.5L
IDC IV 13 00 37 29.1–5.6 17.58S 69.07W 170–31 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=8.1km az=22.8.
GUC Error ellipse: s-maj=6.6km s-min=11.9km az=-1.0.
IDC Error ellipse: s-maj=85.4km s-min=39.7km az=17.0.
IDC IV 26 15 30 10.0–4.3 16.74S 69.42W 175–18 3.8,3.4
¶17202158
IDC Error ellipse: s-maj=95.4km s-min=41.6km az=16.0.
IDC V 06 02 55 13.7–5.2 17.35S 69.15W 172–28 3.4,3.1
¶17202894
IDC Error ellipse: s-maj=87.7km s-min=51.2km az=13.0.
IDC V 06 12 04 11.1–4.7 14.34S 69.72W 190–82 3.2,2.9
¶17202919
IDC Error ellipse: s-maj=190.8km s-min=45.0km az=23.0.
ISC V 21 18 07 08.0–1.2 16.81S–.08 69.6W–.10 172–8 3.9b 23 1-149
ISCJB V 21 18 07 06.9–.87 16.85S–.06 69.72W–.10 174–6 3.7b **¶17204154**
SCB V 21 18 07 06.5–.49 16.72S 69.07W 200 3.6L
GUC V 21 18 07 08.6–.51 17.14S 69.87W 185–5 4.0L
IDC V 21 18 07 10.2–1.6 16.67S 69.34W 185–10 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=5.9km az=31.3.
SCB Event type ke. Error ellipse: s-maj=18.0km s-min=6.8km az=95.0.
GUC Error ellipse: s-maj=5.5km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=34.7km s-min=25.5km az=109.0.
SCB V 22 02 56 01.1–.40 17.13S 69.85W 125 3.8L
¶602339211
SCB Event type ke. Error ellipse: s-maj=13.0km s-min=9.1km az=147.0.
IDC V 26 09 30 37.5–3.4 15.50S 69.87W 238–36 3.5,3.1
¶17204494
IDC Error ellipse: s-maj=216.3km s-min=48.6km az=20.0.
SCB V 27 03 41 41.4–.51 13.61S 69.48W 25 3.9L
¶602339222
SCB Event type ke. Error ellipse: s-maj=21.5km s-min=8.9km az=70.0.
ISC VI 02 06 19 42.5–.95 17.52S–.06 69.47W–.09 152 11 2-77
ISCJB VI 02 06 19 41.5–.82 17.50S–.06 69.58W–.10 152 3.3b **¶17204951**
IDC VI 02 06 19 43.0–1.4 17.41S 69.55W 157–11 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.3km az=14.7.
IDC Error ellipse: s-maj=23.3km s-min=17.0km az=124.0.
ISC VI 08 03 06 21.8–.22 17.21S–.03 69.69W–.03 141–1 5.8b 1872 1-178
BJI VI 08 03 06 18.9 17.10S 69.65W 100 5.6b **¶16575907**
ISCJB VI 08 03 06 21.6–.12 16.94S–.02 69.64W–.02 147 5.7b
NEIC VI 08 03 06 22.6–.14 17.08S 69.52W 146 5.9W,5.9W
IDC VI 08 03 06 22.8–.33 17.08S 69.78W 144–2 5.7,5.4
GCMT VI 08 03 06 22.6–.10 17.37S 69.84W 150–0 5.9W,5.4
GUC VI 08 03 06 22.2–.31 17.53S 70.00W 146–2 6.2L,5.4
NEIC VI 08 03 06 23.0–.00 17.08S 69.52W 146 6.2L,5.4
SCB VI 08 03 06 24.7–.43 17.15S 68.88W 150 5.6L,5.4
MOS VI 08 03 06 24.0–.93 16.74S 69.67W 139 6.0b,5.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=38.7.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=63.0. Felt [III] at Tacna and Tarata. Also felt at Arequipa, Ilo, Juliaca, Moquegua and Puno. Felt [II] at La Paz, Bolivia. Also felt at Cochabamba and El Alto. Felt [IV] at Codpa, Cuya and Poconchile; [III] at Arica, Camina, Pisagua and Putre; [II] at Alto Hospicio, Huara, Iquique and Pozo Almonte, Chile. Also felt at Antofagasta. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17} Nm; M_{rr}-2.79 $M_{\theta\theta}$-3.94 $M_{\phi\phi}$6.73 $M_{r\theta}$2.31 $M_{\theta\phi}$2.65 $M_{\phi r}$-4.52 Best double couple: NP1: ϕ_s337.00000°,δ77.00000°,λ-134.00000°. NP2:ϕ_s234.00000°,δ45.00000°,λ-18.00000°. Principal axes: T 8.7500,Plg20.0000°,Azm98.0000°; N -1.2600,Plg43.0000°,Azm349.0000° ; P -7.4900,Plg41.0000°,Azm206.0000° $M_0$8.20000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s237.00000°,δ30.00000°,λ-4.00000°. NP2: ϕ_s330.00000°,δ88.00000°,λ-120.00000°. Principal axes: T Plg36.0000°,Azm86.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm213.0000°
IDC Error ellipse: s-maj=9.2km s-min=7.2km az=153.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c272; s137,c406;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.40±.01 $M_{\theta\theta}$-0.32±.01; $M_{\phi\phi}$0.72±.01; $M_{r\theta}$0.56±.01; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$-0.55±.01; Best double couple: NP1: ϕ_s321.00000°,δ76.00000°,λ-119.00000°. NP2:ϕ_s208.00000°,δ32.00000°,λ-27.00000°. Principal axes: T 1.0300,Plg25.0000°,Azm73.0000°; N -0.0400,Plg28.0000°,Azm329.0000° ; P -0.9890,Plg50.0000°,Azm198.0000° $M_0$1.01000×10^{18}
GUC Error ellipse: s-maj=2.4km s-min=3.0km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.13 $M_{\theta\theta}$-4.43 $M_{\phi\phi}$8.57 $M_{r\theta}$3.37 $M_{\theta\phi}$-0.60 $M_{\phi r}$-4.69 Best double couple: NP1:ϕ_s326.00000° ,δ73.00000°,λ-127.00000°. NP2:ϕ_s215.00000°,δ40.00000°,λ-26.00000°. Principal axes: T 10.3000,Plg19.0000°,Azm83.0000°; N -2.1000,Plg35.0000°,Azm338.0000° ; P -8.2000,Plg48.0000°,Azm196.0000° $M_0$9.40000×10^{17}
SCB Event type ke. Error ellipse: s-maj=15.0km s-min=5.3km az=81.0.
MOS Error ellipse: s-maj=22.3km s-min=7.8km az=55.1.
ISC VI 08 10 53 02.7–.64 16.38S–.05 69.98W–.05 180–6 4.2b 300 1-177
SCB VI 08 10 53 02.8–1.8 16.48S 69.82W 166–10 3.9L **¶16856655**
NEIC VI 08 10 53 03.4–.58 16.35S 69.82W 183–6 4.4b
IDC VI 08 10 53 06.7–.91 15.81S 69.54W 194–6 4.5,4.1
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=51.9km s-min=27.7km az=110.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.9km az=66.0.
IDC Error ellipse: s-maj=30.5km s-min=11.9km az=24.0.

ISC VI 18 05 38 22.8–.41 17.89S–.03 69.99W–.05 105–3 4.9b 721 1-171
SCB VI 18 05 38 20.1–.57 17.78S 69.94W 120 4.8L **¶16631485**
BJI VI 18 05 38 21.0 17.60S 69.60W 84 5.3s,5.2b
ISCJB VI 18 05 38 21.5–.12 17.76S–.02 69.74W–.04 113 4.9b,5.2b
IDC VI 18 05 38 24.0–.50 17.67S 69.73W 114–3 5.0,4.8
NEIC VI 18 05 38 23.9–.15 17.64S 69.59W 112 4.8b,4.8
GUC VI 18 05 38 25.6–.33 18.22S 70.31W 106–4 4.7L,4.8
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=17.8km s-min=4.8km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.5km az=164.9.
IDC Error ellipse: s-maj=15.7km s-min=11.3km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=68.0. Felt [III] at Codpa and [II] at Alcerreca, Arica, Camina, Cuya, Poconchile, Putre and Visviri. Felt [II] at Locumba and Tacna, Peru. Also felt at La Paz, Bolivia.
GUC Error ellipse: s-maj=2.6km s-min=4.0km az=-1.0.
GUC VI 23 20 07 25.7–.42 17.72S 69.85W 187–3 3.9L
¶601517854
GUC Error ellipse: s-maj=3.8km s-min=6.5km az=-1.0.
ISC VI 25 16 09 54.7–.86 17.33S–.06 69.82W–.09 139–7 4.0b 41 1-149
ISCJB VI 25 16 09 53.8–.61 17.33S–.05 69.85W–.09 146–5 3.8b **¶16731447**
SCB VI 25 16 09 54.4–.32 17.01S 69.51W 150 3.9L
NEIC VI 25 16 09 55.3–1.4 17.19S 69.60W 143–12 4.0b
GUC VI 25 16 09 55.5–.33 17.55S 69.98W 146–2 4.2L
IDC VI 25 16 09 57.1–1.5 17.17S 69.59W 157–12 4.4,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=4.8km az=27.2.
SCB Event type ke. Error ellipse: s-maj=8.9km s-min=7.2km az=127.0.
NEIC Event type se. Error ellipse: s-maj=23.8km s-min=11.7km az=105.0.
GUC Error ellipse: s-maj=2.4km s-min=3.3km az=-1.0.
IDC Error ellipse: s-maj=22.1km s-min=16.8km az=90.0.
ISC VI 26 00 08 24.6–.50 16.82S–.04 69.50W–.05 181–4 4.5b 122 1-169
BJI VI 26 00 08 14.5 15.90S 71.30W 99 5.3b **¶16682699**
ISCJB VI 26 00 08 23.6–.31 16.81S–.03 69.49W–.05 184–3 4.4b
NEIC VI 26 00 08 23.3–.53 16.70S 69.33W 165–5 4.5b
SCB VI 26 00 08 23.4–.55 16.58S 69.16W 190 3.8L
GUC VI 26 00 08 25.6–.40 16.95S 69.39W 159–4 4.8L
IDC VI 26 00 08 26.1–.67 16.62S 69.26W 187–4 4.7,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.4km az=10.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.1km az=77.0. Felt [III] at Juliaca. Also felt at Puno.
SCB Event type ke. Error ellipse: s-maj=20.9km s-min=12.8km az=122.0.
GUC Error ellipse: s-maj=2.8km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=10.5km az=101.0.

(120) Central Bolivia.

SCB I 04 15 42 51.6–.64 17.65S 65.35W 34 3.7L
¶602401239
SCB Event type ke. Error ellipse: s-maj=37.0km s-min=13.0km az=36.0.
IDC I 21 09 48 42.8–4.6 18.42S 67.17W 188–33 3.8,3.4
¶17190670
IDC Error ellipse: s-maj=176.1km s-min=28.5km az=63.0.
IDC II 08 04 54 40.6–1.5 18.21S 67.02W 256–16 3.8,3.3
¶17191887
IDC Error ellipse: s-maj=27.3km s-min=14.0km az=120.0.
IDC III 11 22 13 13.6–1.9 14.95S 64.46W 0 3.7,3.6b
¶17194126
IDC Error ellipse: s-maj=43.0km s-min=13.9km az=175.0.
ISC IV 20 06 14 46.4–1.9 18.5S–.20 66.3W–.10 35 13 2-89
SCB IV 20 06 14 43.3–.33 18.04S 66.23W 26 3.5L **¶17201591**
IDC IV 20 06 14 44.9–8.3 18.86S 66.68W 41–60 4.0L,3.4
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=11.4km s-min=2.7km az=13.0.
IDC Error ellipse: s-maj=114.8km s-min=42.4km az=44.0.
ISC IV 25 16 37 12.0–.79 17.33S–.05 64.71W–.06 35 4.0b 32 3-139
SCB IV 25 16 37 09.0–.14 17.25S 64.77W 55 3.9L **¶16577890**
ISCJB IV 25 16 37 10.4–.52 17.30S–.04 64.67W–.04 33 4.0b,3.8s
IDC IV 25 16 37 12.5–3.4 17.06S 64.71W 35–28 4.0,3.8
NEIC IV 25 16 37 13.1–.70 17.23S 64.77W 43–8 4.1b,3.8
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=11.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.6km az=136.3.
IDC Error ellipse: s-maj=32.6km s-min=20.6km az=4.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=9.4km az=154.0.
SCB IV 27 21 22 48.5–.15 17.58S 65.90W 22 3.8L
¶602339076
SCB Event type ke. Error ellipse: s-maj=5.8km s-min=2.6km az=26.0.
SCB V 13 13 53 26.1–.41 17.55S 66.14W 26–5 3.8L
¶602339178
SCB Event type ke. Error ellipse: s-maj=8.9km s-min=3.9km az=120.0.
SCB V 19 03 16 43.7–.15 17.67S 65.08W 17 3.5L
¶602339203
SCB Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=29.0.
ISC V 19 15 00 45.3–.71 17.30S–.06 64.54W–.04 10 4.7b 33 3-149
SCB V 19 15 00 42.5–.13 17.47S 64.40W 25 4.2L **¶16710305**
ISCJB V 19 15 00 43.4–2.0 17.38S–.05 64.24W–.05 8–13 4.7b
IDC V 19 15 00 44.8–1.3 17.27S 64.48W 0 4.2L,4.1
NEIC V 19 15 00 49.6–.86 17.35S 64.48W 40–9 4.8b,4.1
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=7.9km az=24.5.
IDC Error ellipse: s-maj=38.7km s-min=13.2km az=176.0.
NEIC Event type fe. Error ellipse: s-maj=14.0km s-min=8.5km az=130.0. Felt at Mizque.
IDC VI 14 17 23 22.7–6.9 18.61S 66.60W 261–43 3.5,3.2b
¶17206128
IDC Error ellipse: s-maj=136.3km s-min=59.2km az=18.0.

(121) Off coast of northern Chile.

GUC I 12 04 25 44.3–.52 23.19S 71.01W 22–3 3.7L
¶601516149
GUC Error ellipse: s-maj=1.3km s-min=3.6km az=-1.0.
ISC II 26 10 49 33.7–2.4 18.74S–.08 71.3W–.20 74–22 3.6b 20 1-125
SCB II 26 10 49 24.4–.55 18.48S 71.95W 39 3.5L **¶17192900**
ISCJB II 26 10 49 30.4–1.7 18.61S–.07 71.4W–.10 57–16 3.6b
GUC II 26 10 49 30.6–.42 18.55S 71.21W 34–2 3.5L
IDC II 26 10 49 43.6–6.1 18.03S 70.95W 134–37 3.6,3.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=30.8km s-min=13.2km az=147.0.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=11.5km az=13.0.
GUC Error ellipse: s-maj=2.3km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=80.3km s-min=34.0km az=22.0.
ISC III 17 12 19 08.5–2.3 21.41S–.05 71.36W–.09 16–12 21 1-147
IDC III 17 12 19 04.8–2.1 21.55S 71.76W 0 4.0,3.9b **¶17196713**
GUC III 17 12 19 11.1–.44 21.36S 71.31W 37–2 3.6L,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=70.0km s-min=57.9km az=163.0.
GUC Error ellipse: s-maj=2.1km s-min=2.6km az=-1.0.
IDC IV 03 09 00 56.5–4.1 18.60S 73.74W 0 3.7,3.5
¶17199637
IDC Error ellipse: s-maj=145.8km s-min=47.5km az=5.0.
ISC IV 04 20 23 22.6–.75 25.70S–.05 71.39W–.10 35 4.0b 30 2-150
IDC IV 04 20 23 18.7–.88 25.77S 70.73W 0 4.1b,4.1 **¶16648116**
ISCJB IV 04 20 23 21.1–.76 25.73S–.04 71.3W–.10 33 4.3s,4.0b
GUC IV 04 20 23 22.4–.68 25.77S 71.19W 47–999 4.0L,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=21.7km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.0km az=3.7.
GUC Error ellipse: s-maj=5.8km s-min=80.5km az=-1.0.
ISC IV 24 21 46 14.1–3.4 18.42S–.07 71.7W–.20 55–29 3.9b 24 1-87
SCB IV 24 21 45 55.7–1.1 18.21S 72.85W 36 4.0L **¶17201988**
IDC IV 24 21 46 01.9–2.7 19.16S 72.08W 0 4.1,4.0

GUC IV 24 21 46 11.0–.41 18.32S 71.65W 37–2 3.6L,4.0
ISCJB IV 24 21 46 12.1–1.6 18.44S–.06 71.8W–.10 54–15 3.8b,4.0
ISC Event type ke.
SCB Event type ke.
ISCJB Event type ke.
ISC IV 27 22 19 53.3–2.0 18.18S–.05 71.66W–.06 4–12 4.7b,4.3s 77 1-150
SCB IV 27 22 19 48.1–.64 18.21S 72.25W 38 4.1L,4.3s **¶16681491**
IDC IV 27 22 19 52.4–.77 18.08S 71.70W 0 4.4L,4.3
ISCJB IV 27 22 19 56.6–.79 18.36S–.04 71.83W–.06 39–8 4.6b,3.9s
NEIC IV 27 22 19 56.0 18.30S 71.69W 34 4.8b,4.4L
GUC IV 27 22 19 56.6–.68 18.30S 71.69W 34–4 4.4L,4.4L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=16.4km s-min=7.5km az=106.0.
IDC Error ellipse: s-maj=25.6km s-min=19.4km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.7km az=159.6.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=4.1km s-min=3.6km az=-1.0.
IDC V 05 03 48 27.6–3.6 18.50S 71.19W 81–27 4.1,3.8 ¶17202812
IDC Error ellipse: s-maj=43.1km s-min=20.0km az=90.0.
IDC V 05 03 55 22.2–2.9 19.44S 71.70W 0 3.9,3.8 ¶17202815
IDC Error ellipse: s-maj=92.2km s-min=41.7km az=177.0.
ISC V 13 16 46 44.8–1.4 21.49S–.06 71.3W–.10 10 13 1-147
IDC V 13 16 46 40.9–2.4 21.77S 71.66W 0 3.9,3.8b **¶17203560**
ISCJB V 13 16 46 43.6–1.4 21.38S–.07 71.34W–.09 10 3.8b,3.8b
GUC V 13 16 46 47.0–.49 21.39S 71.21W 10–53 3.5L,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=73.7km s-min=61.9km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=9.6km az=151.6.
GUC Error ellipse: s-maj=5.6km s-min=18.1km az=-1.0.
ISC VI 18 00 50 19.5–1.1 21.6S–.20 72.3W–.20 35 4.0b 12 3-90
IDC VI 18 00 50 14.3–2.8 21.65S 72.37W 0 4.0,4.0L **¶16730846**
NEIC VI 18 00 50 15.8–.73 21.61S 72.41W 10 4.1b,4.0L
ISCJB VI 18 00 50 17.8–1.1 21.5S–.20 72.3W–.10 33 4.0b,4.0L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 24 19 36 22.4–1.0 26.94S–.07 71.20W–.07 25 23 0-151
IDC VI 24 19 36 17.4–5.4 27.31S 70.93W 0 3.8,3.6 **¶16731396**
ISCJB VI 24 19 36 23.1–1.0 26.77S–.06 71.07W–.09 25 3.5b,3.6
GUC VI 24 19 36 24.2–.59 26.83S 70.90W 35–2 4.0L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=236.7km s-min=53.3km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.7km az=171.0.
GUC Error ellipse: s-maj=4.2km s-min=5.4km az=-1.0.

(122) Near coast of northern Chile.

ISC I 01 21 13 09.6–3.5 18.6S–.10 71.0W–.20 58–31 12 1-126
IDC I 01 21 12 57.9–2.7 19.56S 71.35W 0 3.5,3.3 **¶17189161**
ISCJB I 01 21 13 09.1–2.1 18.63S–.07 71.0W–.20 66–19 3.0b,3.3
GUC I 01 21 13 09.1–.36 18.57S 70.86W 80–9 3.2L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=82.4km s-min=53.2km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=27.3km s-min=11.7km az=9.4.
GUC Error ellipse: s-maj=1.7km s-min=4.9km az=-1.0.
ISC I 05 00 54 05.7–2.1 27.80S–.06 70.18W–.07 110–17 22 0-6
ISCJB I 05 00 54 05.7–1.0 27.84S–.05 70.20W–.06 109–10 **¶601516031**
GUC I 05 00 54 05.9–.54 27.85S 69.92W 87–7 3.8L
SJA I 05 00 54 06.4–.59 27.88S 69.93W 158–8 3.4L,2.8W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.9km az=169.6.
GUC Error ellipse: s-maj=2.4km s-min=8.2km az=-1.0.
SJA Error ellipse: s-maj=4.1km s-min=6.4km az=-1.0.
ISC I 06 01 43 12.9–1.3 20.45S–.03 70.2W–.10 44–11 4.1b,3.8s 43 0-153
ISCJB I 06 01 43 12.1–.73 20.48S–.03 70.25W–.09 53–6 4.0b,3.5s **¶17189560**
GUC I 06 01 43 12.0–.50 20.49S 70.18W 46–2 4.2L,3.5s
IDC I 06 01 43 15.7–2.0 20.50S 70.09W 69–18 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=4.8km az=174.7.
GUC Error ellipse: s-maj=1.3km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=23.2km s-min=12.6km az=87.0.
ISC I 10 02 43 15.1–1.9 22.31S–.04 70.68W–.09 11–9 3.6b 29 0-147
IDC I 10 02 43 11.2–1.4 22.27S 70.88W 0 3.9,3.8 **¶15994808**
ISCJB I 10 02 43 13.6–1.7 22.26S–.03 70.81W–.06 15–11 3.7b,3.8
GUC I 10 02 43 16.1–.44 22.30S 70.60W 38–2 4.1L,3.8
NEIC I 10 02 43 16.0 22.30S 70.60W 38 4.1,3.8
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=27.3km az=8.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=4.7km az=19.8.
GUC Error ellipse: s-maj=1.4km s-min=2.6km az=-1.0.
NEIC Event type se. After GUC.
ISC I 13 11 48 06.7–3.0 27.89S–.04 70.96W–.08 6–20 25 1-5
GUC I 13 11 48 06.0–.55 27.87S 70.94W 34–4 3.5L **¶601996245**
ISC Event type ke.
GUC Error ellipse: s-maj=1.4km s-min=5.3km az=-1.0.
ISC I 14 15 08 40.4–.98 24.07S–.05 70.20W–.09 56–10 21 1-148
ISCJB I 14 15 08 40.0–.92 24.08S–.05 70.3W–.10 72–9 3.8b **¶17190185**
GUC I 14 15 08 40.5–.45 24.04S 70.00W 36–2 3.9L
IDC I 14 15 08 42.3–6.0 24.35S 69.60W 60–45 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=7.3km az=9.8.
GUC Error ellipse: s-maj=1.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=70.6km s-min=44.2km az=107.0.
ISC I 23 10 06 45.0–.71 25.62S–.07 70.3W–.10 49 4.7b 38 1-150
ISCJB I 23 10 06 43.2–.71 25.65S–.05 70.2W–.10 49 4.4b **¶16022177**
NEIC I 23 10 06 43.6–.64 25.72S 70.17W 35 4.2b,4.1L
IDC I 23 10 06 46.1–1.1 25.56S 70.17W 56–5 4.6,4.4
GUC I 23 10 06 50.6–.49 24.65S 71.21W 13–19 4.1L,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.1km az=170.5.
NEIC Event type fe. Error ellipse: s-maj=20.9km s-min=10.9km az=106.0. Felt [III] at Taltal.
IDC Error ellipse: s-maj=31.5km s-min=20.8km az=21.0.
GUC Error ellipse: s-maj=6.0km s-min=7.6km az=-1.0.
ISC I 23 16 02 43.1–.31 19.95S–.03 70.46W–.04 31–1 5.0b,4.1s 628 0-173
SCB I 23 16 02 23.7–.52 20.75S 71.62W 33 4.9L,4.1s **¶15959253**
ISCJB I 23 16 02 41.7–.15 19.85S–.03 70.45W–.04 32 5.0b,4.2s
MOS I 23 16 02 42.9–1.4 19.74S 70.41W 33 5.2b,4.2s
NEIC I 23 16 02 43.9–.19 19.88S 70.40W 32 5.1b,4.9W
IDC I 23 16 02 43.4–.37 19.82S 70.34W 27–2 4.5,4.5
GCMT I 23 16 02 43.9–.60 19.95S 71.10W 37–2 5.0W,4.5
GUC I 23 16 02 43.7–.70 20.01S 70.42W 30 4.9W,4.3L
BJI I 23 16 02 45.0 19.90S 70.40W 33 5.4s,5.3b
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=57.5km s-min=10.2km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.7km az=142.5.
MOS Error ellipse: s-maj=16.3km s-min=7.4km az=113.2.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.0km az=54.0. Felt [III] at Alto Hospicio and Iquique; [II] at Cuya, Huara, Pisagua and Pozo Almonte. Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ22.00000°,λ116.00000°. NP2:ϕ_s160.00000° ,δ70.00000°,λ80.00000°. Principal axes: T 1.2700,Plg64.0000°,Azm54.0000° ; N 0.0000,Plg9.0000°,Azm163.0000°; P -1.2700,Plg24.0000°,Azm258.0000°
IDC Error ellipse: s-maj=14.7km s-min=12.0km az=51.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c41; s58,c79; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.64±.25 $M_{\theta\theta}$0.13±.17; $M_{\phi\phi}$-2.77±.18; $M_{r\theta}$0.98±.18; $M_{\theta\phi}$1.78±.13; $M_{\phi r}$-1.70±.24; Best double couple: NP1:ϕ_s151.00000°,δ61.00000° ,λ86.00000°. NP2:ϕ_s339.00000°,δ29.00000°,λ97.00000°. Principal axes: T 3.2110,Plg74.0000°,Azm51.0000°; N 0.9690,Plg4.0000°,Azm153.0000° ; P -4.1770,Plg16.0000°,Azm244.0000° $M_0$3.69400×10^{16}
GUC Error ellipse: s-maj=1.9km s-min=4.4km az=-1.0.

GUC I 24 15 17 52.7–.81 18.22S 70.28W 38–4 3.8L ¶601516313
GUC Error ellipse: s-maj=4.7km s-min=5.7km az=-1.0.
GUC I 29 11 10 21.8–.43 27.96S 71.20W 31–4 3.5L ¶601516378
GUC Error ellipse: s-maj=1.0km s-min=7.5km az=-1.0.
ISC II 04 11 59 14.2–.94 22.98S–.05 70.15W–.06 43–9 3.9b 20 1-147
ISCJB II 04 11 59 13.6–.63 22.99S–.05 70.14W–.06 55–6 3.7b **¶17191647**
GUC II 04 11 59 13.8–.43 22.94S 70.15W 42–1 3.8L
IDC II 04 11 59 17.2–2.8 22.94S 69.96W 69–19 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.8km az=32.1.
GUC Error ellipse: s-maj=1.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=39.2km s-min=27.0km az=21.0.
ISC II 04 14 36 06.3–1.3 27.69S–.04 71.00W–.08 10 26 1-5
GUC II 04 14 36 05.8–.36 27.68S 71.02W 36–2 3.8L **¶601516457**
SJA II 04 14 36 07.0–.92 27.81S 70.96W 18–12 3.4L
ISC Event type ke.
GUC Error ellipse: s-maj=1.0km s-min=2.8km az=-1.0.
SJA Error ellipse: s-maj=10.5km s-min=17.1km az=-1.0.
GUC II 04 16 58 45.5–.81 21.64S 70.40W 59–7 3.5L ¶601516459
GUC Error ellipse: s-maj=2.3km s-min=6.4km az=-1.0.
ISC II 05 16 58 35.1–1.1 27.34S–.04 71.15W–.08 46–10 3.4b 44 0-151
IDC II 05 16 58 27.7–1.0 27.68S 70.77W 0 4.1,4.1L **¶16339711**
NEIC II 05 16 58 33.0 27.35S 70.69W 71 4.6,4.1L
GUC II 05 16 58 33.8–.57 27.36S 70.69W 71–3 4.6L,4.1L
ISCJB II 05 16 58 34.8–.62 27.31S–.03 71.08W–.07 55–6 3.5b,4.1L
SJA II 05 16 58 37.8–.66 27.49S 70.74W 183–16 3.9W,3.8L
ISC Event type fe.
IDC Error ellipse: s-maj=37.6km s-min=28.9km az=121.0.
NEIC Event type fe. Felt [IV] at Copiapo and Tierra Amarilla; [III] at Caldera. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=10.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=4.5km az=2.0.
SJA Error ellipse: s-maj=6.9km s-min=12.6km az=-1.0.
ISC II 10 02 12 25.8–.27 27.58S–.03 70.24W–.06 70–2 5.0b 544 0-177
MOS II 10 02 12 20.4–.98 27.66S 70.31W 33 5.4b **¶16020158**
ISCJB II 10 02 12 23.3–.35 27.56S–.02 70.13W–.04 60–3 4.9b,4.2s
IDC II 10 02 12 25.9–.34 27.59S 70.27W 71–2 4.7,4.4
NEIC II 10 02 12 25.0 27.62S 70.32W 62 5.1b,4.4
GUC II 10 02 12 25.5–.73 27.62S 70.32W 62–5 5.5L,4.4
GCMT II 10 02 12 25.0–.20 27.56S 70.62W 93–2 5.2W,4.4
BJI II 10 02 12 27.8 27.60S 70.30W 62 5.5s,5.2
ISC Event type fe.
MOS Error ellipse: s-maj=15.1km s-min=8.1km az=104.8.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.4km az=174.1.
IDC Error ellipse: s-maj=12.5km s-min=11.0km az=65.0.
NEIC Event type fe. Felt [V] at Caldera, Copiapo and Tierra Amarilla; [IV] at Alto del Carmen, Freirina, Huasco and Vallenar; [III] at Chanaral, Diego de Almagro and La Higuera; [II] at Coquimbo and La Serena. Also felt at Vicuna. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=7.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c63; s98,c160; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.02 $M_{\theta\theta}$0.42±.02; $M_{\phi\phi}$-0.69±.02; $M_{r\theta}$-0.28±.01; $M_{\theta\phi}$-0.55±.02; $M_{\phi r}$0.10±.02; Best double couple: NP1:ϕ_s244.00000°,δ71.00000° ,λ158.00000°. NP2:ϕ_s341.00000°,δ70.00000°,λ21.00000°. Principal axes: T 0.8160,Plg29.0000°,Azm202.0000°; N 0.1050,Plg61.0000°,Azm24.0000° ; P -0.9200,Plg1.0000°,Azm293.0000° $M_0$0.86800×10^{17}
ISC II 12 09 30 26.3–1.8 27.35S–.09 70.0W–.10 10 18 2-151
ISCJB II 12 09 30 27.9–2.0 27.44S–.10 70.0W–.20 10 4.0b **¶602035930**
SJA II 12 09 30 27.8–.91 27.40S 70.00W 33 3.1W,3.0L
IDC II 12 09 30 29.6–15 22.62S 69.44W 0 4.1,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=11.8km az=25.2.
SJA Error ellipse: s-maj=16.4km s-min=21.0km az=-1.0.
IDC Error ellipse: s-maj=936.0km s-min=117.1km az=4.0.
ISC II 14 23 28 36.2–1.5 22.24S–.08 70.5W–.10 31 12 0-147
IDC II 14 23 28 31.2–2.0 22.66S 70.37W 0 3.7,3.7b **¶17192269**
ISCJB II 14 23 28 35.3–1.6 22.25S–.07 70.60W–.10 31 3.4b,3.7b
GUC II 14 23 28 36.7–.44 22.23S 70.52W 28–4 3.6L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=86.6km s-min=43.5km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=9.8km az=157.7.
GUC Error ellipse: s-maj=1.9km s-min=3.5km az=-1.0.
GUC II 17 02 39 41.3–.45 19.25S 70.25W 43–1 3.6L ¶601516612
GUC Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISC II 20 17 36 59.0–2.1 19.17S–.05 70.73W–.08 8–12 15 1-126
IDC II 20 17 36 55.4–3.8 19.85S 70.99W 0 3.8,3.5 **¶17192597**
ISCJB II 20 17 36 58.4–2.0 19.11S–.04 70.78W–.06 7–11 3.6b,3.5
GUC II 20 17 37 00.5–.41 19.09S 70.68W 40–3 3.6L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=90.8km s-min=34.3km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.4km az=174.3.
GUC Error ellipse: s-maj=1.3km s-min=3.4km az=-1.0.
GUC II 24 10 25 23.2–.46 24.93S 70.06W 35–5 3.6L ¶601516674
GUC Error ellipse: s-maj=2.0km s-min=12.3km az=-1.0.
GUC II 25 22 36 34.1–.63 22.87S 70.62W 35–2 3.6L ¶601516690
GUC Error ellipse: s-maj=1.8km s-min=3.7km az=-1.0.
ISC II 26 23 34 46.4–1.6 27.86S–.05 71.7W–.10 10 12 1-6
ISCJB II 26 23 34 48.0–1.5 27.81S–.06 71.7W–.10 10 **¶601516703**
GUC II 26 23 34 48.2–.31 27.92S 71.65W 41 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=5.5km az=24.0.
GUC Error ellipse: s-maj=1.2km s-min=3.1km az=-1.0.
ISC III 02 19 42 11.8–1.4 27.57S–.04 70.80W–.07 28–10 25 0-151
IDC III 02 19 42 04.2–1.9 28.14S 70.49W 0 4.0,4.0b **¶16484264**
SJA III 02 19 42 08.6–.76 27.42S 70.97W 64–15 3.6L,4.0b
GUC III 02 19 42 11.8–.55 27.59S 70.59W 46–5 4.0L,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=103.8km s-min=47.1km az=100.0.
SJA Error ellipse: s-maj=9.6km s-min=10.1km az=-1.0.
GUC Error ellipse: s-maj=3.4km s-min=4.8km az=-1.0.
ISC III 03 03 04 31.6–2.1 21.81S–.04 70.5W–.10 15–12 20 1-154
IDC III 03 03 04 27.1–2.4 22.34S 70.56W 0 3.8,3.8 **¶17193170**
ISCJB III 03 03 04 33.0–1.5 21.77S–.03 70.5W–.10 25–10 3.7b,3.8
GUC III 03 03 04 32.9–1.2 21.76S 70.52W 36–6 3.6L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=54.5km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=4.8km az=3.4.
GUC Error ellipse: s-maj=2.2km s-min=8.7km az=-1.0.
GUC III 06 09 07 37.9–.61 25.48S 70.76W 35–4 3.6L ¶601516767
GUC Error ellipse: s-maj=1.6km s-min=12.3km az=-1.0.
ISC III 17 18 24 23.2–1.6 27.52S–.06 71.11W–.10 32 17 1-7
GUC III 17 18 24 23.3–.73 27.56S 70.89W 42–4 3.8L **¶16630702**
ISCJB III 17 18 24 23.4–1.1 27.50S–.04 71.04W–.10 32 3.8L
SJA III 17 18 24 23.1–.80 27.57S 71.22W 63–11 3.6L,2.8W
ISC Event type ke.
GUC Error ellipse: s-maj=3.1km s-min=7.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=5.1km az=13.8.
SJA Error ellipse: s-maj=6.8km s-min=15.6km az=-1.0.
ISC III 20 17 12 25.8–.26 24.82S–.03 70.21W–.05 50–2 5.4b,4.8s 950 0-177
MOS III 20 17 12 24.2–1.1 24.75S 70.12W 42 5.5b,4.6s **¶16339599**
ISCJB III 20 17 12 24.7–.31 24.83S–.02 70.10W–.03 54–2 5.4b,4.7s
GUC III 20 17 12 25.0–.58 24.88S 70.21W 49–5 5.3L,4.7s
GCMT III 20 17 12 25.0–.30 24.87S 70.61W 56–2 5.1W,4.7s
NEIC III 20 17 12 25.0 24.87S 70.20W 49 5.4b,5.0W
IDC III 20 17 12 26.3–.31 24.82S 70.04W 53–2 4.9,4.8

BJI III 20 17 12 27.1 24.90S 70.00W 47 5.6s,5.5b
SCB III 20 17 12 46.6–1.1 23.12S 69.25W 98 4.7L,5.5b
SJA III 20 17 12 47.8–5.4 25.82S 68.17W 187–90 3.6L,3.5W
ISC Event type fe.
MOS Error ellipse: s-maj=14.0km s-min=6.8km az=105.7.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.2km az=165.4.
GUC Error ellipse: s-maj=1.5km s-min=11.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c45; s66,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.54±.26 $M_{\theta\theta}$0.31±.18; $M_{\phi\phi}$-4.86±.17; $M_{r\theta}$1.21±.13; $M_{\theta\phi}$0.17±.14; $M_{\phi r}$-3.21±.19; Best double couple: NP1:ϕ_s167.00000°,δ63.00000°,λ79.00000°. NP2:ϕ_s10.00000°,δ29.00000°,λ110.00000°. Principal axes: T 5.7570,Plg70.0000°,Azm55.0000°; N 0.1320,Plg10.0000°,Azm172.0000° ; P -5.8970,Plg18.0000°,Azm265.0000° M_o5.82700×10^{16}
NEIC Event type fe. Felt [IV] at Taltal; [III] at Caldera, Chanaral, Copiapo, Diego de Almagro and Tierra Amarilla; [II] at Antofagasta. After GUC. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}2.77 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-2.86 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.32 $M_{\phi r}$-3.29 Best double couple: NP1:ϕ_s177.00000°,δ70.00000°,λ83.00000°. NP2:ϕ_s16.00000°,δ21.00000°,λ108.00000°. Principal axes: T 4.3300,Plg64.0000°,Azm76.0000°; N 0.0500,Plg6.0000°,Azm179.0000° ; P -4.3800,Plg25.0000°,Azm272.0000° M_o4.30000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=9.3km az=75.0.
SCB Event type ke. Error ellipse: s-maj=28.8km s-min=9.7km az=41.0.
SJA Error ellipse: s-maj=35.4km s-min=56.9km az=-1.0.

ISC III 23 02 41 02.1–3.2 20.24S–.04 70.80W–.09 7–19 4.0b 30 1-146
SCB III 23 02 40 47.1–.44 20.88S 72.03W 28 3.9L **¶17198113**
IDC III 23 02 40 57.9–1.7 21.08S 70.85W 0 4.1,3.9
ISCJB III 23 02 41 02.2–2.0 20.25S–.04 70.86W–.06 9–14 4.2b,3.0s
GUC III 23 02 41 03.9–.71 20.22S 70.81W 29–4 3.7L,3.0s
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=10.2km s-min=5.0km az=67.0.
IDC Error ellipse: s-maj=50.9km s-min=37.5km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.6km az=165.4.
GUC Error ellipse: s-maj=1.7km s-min=4.2km az=-1.0.

ISC III 23 02 57 35.8–2.2 20.24S–.04 70.82W–.06 11–13 4.1b,3.8s 49 1-152
SCB III 23 02 57 16.8–.54 20.88S 72.37W 35 4.6L,3.8s **¶16480358**
NEIC III 23 02 57 37.0 20.19S 70.82W 26 4.0b,3.9L
GUC III 23 02 57 37.2–.56 20.19S 70.82W 26–4 3.9L,3.9L
IDC III 23 02 57 42.9–3.5 20.27S 70.48W 59–29 4.0,3.9
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=12.1km s-min=6.3km az=68.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.8km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=28.8km s-min=21.3km az=44.0.

ISC III 27 11 54 27.7–.80 21.23S–.04 70.41W–.07 63–7 4.1b 47 0-146
ISCJB III 27 11 54 27.1–.47 21.24S–.03 70.34W–.07 72–4 4.1b **¶16442641**
NEIC III 27 11 54 27.0 21.28S 70.29W 59 4.3b
GUC III 27 11 54 27.6–.66 21.28S 70.29W 59–6 4.3L
IDC III 27 11 54 30.2–3.0 21.21S 70.17W 82–25 4.0,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=4.5km az=169.8.
NEIC Event type fe. Felt [III] at Iquique and [II] at Tocopilla. After GUC.
GUC Error ellipse: s-maj=2.1km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=17.9km az=49.0.

ISC IV 02 14 43 12.3–1.5 22.54S–.04 70.63W–.08 27–10 4.4b 27 0-147
IDC IV 02 14 43 07.0–2.0 22.94S 70.72W 0 4.1,4.1b **¶16577632**
ISCJB IV 02 14 43 11.8–1.1 22.66S–.04 70.62W–.07 32–7 4.4b,3.0s
NEIC IV 02 14 43 13.0 22.51S 70.51W 37 4.4b,3.0s
GUC IV 02 14 43 13.9–.65 22.51S 70.51W 37–2 4.1L,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=55.1km s-min=47.9km az=170.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.4km az=21.1.
NEIC Event type fe. Felt [II] at Tocopilla. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=3.6km az=-1.0.

ISC IV 15 04 34 42.0–.73 26.51S–.04 70.69W–.10 58–7 3.5b 29 1-151
ISCJB IV 15 04 34 40.9–.49 26.51S–.03 70.6W–.10 63–7 3.5b **¶16648787**
GUC IV 15 04 34 40.6–1.0 26.53S 70.52W 67–16 3.7L
IDC IV 15 04 34 42.7–1.2 26.46S 70.33W 59–6 3.7,3.7
SJA IV 15 04 35 03.6–.55 28.02S 69.04W 170–5 3.1W,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.1km az=179.1.
GUC Error ellipse: s-maj=2.5km s-min=28.3km az=-1.0.
IDC Error ellipse: s-maj=39.8km s-min=31.9km az=25.0.
SJA Error ellipse: s-maj=11.7km s-min=12.5km az=-1.0.

ISC IV 15 21 15 35.2–2.2 27.95S–.06 70.24W–.08 95–19 19 1-5
ISCJB IV 15 21 15 33.7–1.1 27.93S–.05 70.26W–.08 106–10 **¶16648800**
SJA IV 15 21 15 33.8–.69 27.98S 70.25W 103–8 3.5L,3.4W
GUC IV 15 21 15 34.2–.50 27.98S 70.11W 90–6 3.6L,3.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=8.9km az=1.1.
SJA Error ellipse: s-maj=11.1km s-min=5.4km az=-1.0.
GUC Error ellipse: s-maj=1.9km s-min=9.1km az=-1.0.

ISC IV 21 18 40 48.5–1.6 27.72S–.04 71.13W–.09 10 19 1-5
SJA IV 21 18 40 45.9–.35 27.31S 70.19W 309–5 4.2W,3.5L **¶16649112**
ISCJB IV 21 18 40 50.1–1.1 27.79S–.03 71.1W–.10 10 4.2W,3.5L
GUC IV 21 18 40 51.4–.60 27.83S 70.98W 39–4 3.6L,3.5L
ISC Event type ke.
SJA Error ellipse: s-maj=3.5km s-min=6.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=4.3km az=8.8.
GUC Error ellipse: s-maj=1.8km s-min=6.2km az=-1.0.

ISC IV 25 01 30 12.3–2.1 19.66S–.05 70.92W–.08 20–9 4.0b 23 1-145
SCB IV 25 01 29 54.4–.43 19.76S 72.71W 32 3.5L **¶17201999**
ISCJB IV 25 01 30 13.3–1.9 19.70S–.04 70.96W–.09 23–11 4.0b
GUC IV 25 01 30 13.7–.46 19.67S 70.89W 48–2 3.5L
IDC IV 25 01 30 27.9–3.2 19.07S 70.31W 129–26 3.8,3.6
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=11.8km s-min=4.4km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=7.0km az=168.8.
GUC Error ellipse: s-maj=1.4km s-min=3.8km az=-1.0.
IDC Error ellipse: s-maj=42.3km s-min=27.3km az=102.0.

ISC IV 25 01 59 44.2–1.1 19.68S–.05 71.00W–.08 22–6 4.1b 25 1-145
SCB IV 25 01 59 23.6–.61 20.22S 72.50W 38 3.8L **¶17202002**
IDC IV 25 01 59 44.1–1.8 20.23S 70.93W 29–5 4.1,4.0
GUC IV 25 01 59 44.7–.47 19.65S 70.95W 44–1 3.8L,4.0
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=60.2km s-min=13.0km az=134.0.
IDC Error ellipse: s-maj=61.4km s-min=35.2km az=4.0.
GUC Error ellipse: s-maj=2.0km s-min=2.8km az=-1.0.

ISC IV 27 18 00 17.5–1.7 23.06S–.05 70.7W–.10 17–10 15 0-148
IDC IV 27 18 00 11.0–2.5 24.22S 70.90W 0 3.7,3.7b **¶17202248**
GUC IV 27 18 00 19.1–.60 23.01S 70.62W 41–2 4.1L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=76.6km s-min=64.8km az=82.0.
GUC Error ellipse: s-maj=2.2km s-min=4.0km az=-1.0.

ISC IV 28 08 38 41.4–2.2 27.63S–.07 71.4W–.10 18 19 1-5
SJA IV 28 08 38 39.6–.55 27.43S 71.38W 225–25 3.2L,3.1W **¶16649548**
GUC IV 28 08 38 41.9–3.4 27.65S 71.29W 65 3.5L,3.1W
ISCJB IV 28 08 38 43.3–1.5 27.71S–.05 71.3W–.10 18 3.5L,3.1W
ISC Event type ke.
ISCJB Event type ke.

ISC IV 28 22 44 59.4–1.4 22.90S–.03 70.66W–.08 24–11 4.1b 26 1-148
ISCJB IV 28 22 44 59.3–.88 22.91S–.04 70.64W–.08 32–6 4.0b **¶16577912**
NEIC IV 28 22 44 59.9–3.9 22.87S 70.72W 26–29 4.2b
GUC IV 28 22 44 59.7–.58 23.03S 70.17W 35–3 3.7L
IDC IV 28 22 45 03.0–5.3 22.96S 70.47W 52–35 3.9,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=5.0km az=16.6.
NEIC Event type se. Error ellipse: s-maj=22.2km s-min=14.4km az=94.0.
GUC Error ellipse: s-maj=1.8km s-min=7.6km az=-1.0.
IDC Error ellipse: s-maj=52.1km s-min=25.6km az=23.0.

GUC IV 30 03 32 01.2–.31 22.37S 70.41W 55–2 3.5L ¶601517263

GUC Error ellipse: s-maj=1.6km s-min=3.5km az=-1.0.

ISC V 03 14 35 12.7–1.2 25.93S–.04 70.7W–.30 42–11 14 1-150
IDC V 03 14 35 04.4–2.9 27.49S 70.50W 0 3.8b,3.7 **¶17202684**
ISCJB V 03 14 35 11.7–.91 25.92S–.04 70.8W–.30 52–15 3.6b,3.7
GUC V 03 14 35 11.3–.66 25.92S 70.65W 50–4 3.5L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=123.9km s-min=66.3km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=45.9km s-min=5.6km az=2.7.
GUC Error ellipse: s-maj=2.2km s-min=16.2km az=-1.0.

ISC V 13 14 45 35.2–1.3 25.68S–.04 70.8W–.10 35 21 1-18
ISCJB V 13 14 45 32.9–.92 25.75S–.03 70.7W–.20 35 **¶16684764**
NEIC V 13 14 45 33.0 25.54S 71.12W 18 4.0L
GUC V 13 14 45 33.6–.33 25.54S 71.12W 18–3 4.0L
SJA V 13 14 45 35.9–.81 26.03S 70.58W 40–42 4.0L,3.4W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=19.9km s-min=4.5km az=178.2.
NEIC Event type fe. Felt [II] at Copiapo, Taltal and Tierra Amarilla. After GUC.
GUC Error ellipse: s-maj=3.5km s-min=5.8km az=-1.0.
SJA Error ellipse: s-maj=27.7km s-min=18.4km az=-1.0.

GUC V 13 16 38 38.1–.68 23.36S 70.80W 29–3 4.1L ¶601517419

GUC Error ellipse: s-maj=3.2km s-min=5.8km az=-1.0.

ISC V 20 00 41 19.1–2.1 27.60S–.04 71.16W–.09 4–14 21 1-5
GUC V 20 00 41 19.6–.44 27.59S 71.09W 61–6 3.5L **¶16988696**
ISC Event type ke.
GUC Error ellipse: s-maj=2.1km s-min=4.3km az=-1.0.

ISC V 26 09 06 44.3–2.7 19.92S–.05 70.9W–.10 9–13 19 1-5
SCB V 26 09 06 32.3–.85 20.44S 71.87W 10 3.5L **¶601517513**
GUC V 26 09 06 46.4–.74 19.95S 70.89W 29–4 3.2L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=22.0km s-min=5.6km az=60.0.
GUC Error ellipse: s-maj=2.3km s-min=4.4km az=-1.0.

ISC V 26 11 47 04.7–1.5 27.91S–.04 71.7W–.10 54–15 4.5b 33 1-152
ISCJB V 26 11 47 03.0–.91 27.79S–.04 71.93W–.09 50 5.1b **¶16710973**
IDC V 26 11 47 03.2–1.9 27.88S 71.41W 0 4.5b,4.3
GUC V 26 11 47 04.8–.60 27.95S 71.56W 65–9 4.6L,4.3
NEIC V 26 11 47 04.0 27.95S 71.56W 65 4.6,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=4.9km az=7.0.
IDC Error ellipse: s-maj=76.5km s-min=25.9km az=107.0.
GUC Error ellipse: s-maj=2.0km s-min=7.3km az=-1.0.
NEIC Event type se. After GUC.

GUC V 30 03 07 08.2–1.3 22.32S 70.04W 81–11 3.5L ¶601517546

GUC Error ellipse: s-maj=7.2km s-min=16.7km az=-1.0.

ISC V 31 21 12 20.8–1.4 22.75S–.04 70.40W–.05 14–10 3.8b 39 0-92
SCB V 31 21 11 56.6–.80 23.77S 72.01W 20 3.9L **¶16583941**
SJA V 31 21 12 16.3–.43 22.47S 70.46W 383–34 4.2W,4.0L
ISCJB V 31 21 12 21.0–.89 22.78S–.03 70.44W–.06 16–7 3.8b,3.7s
GUC V 31 21 12 21.2–.33 22.77S 70.39W 33–1 4.5L,3.7s
IDC V 31 21 12 26.8–2.7 22.86S 70.18W 68–22 3.8,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=17.8km s-min=12.1km az=46.0.
SJA Error ellipse: s-maj=9.8km s-min=27.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.4km az=12.7.
GUC Error ellipse: s-maj=0.9km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=28.7km s-min=24.6km az=56.0.

ISC VI 01 16 24 56.6–1.5 27.78S–.05 71.3W–.10 64–11 26 1-152
ISCJB VI 01 16 24 56.7–1.1 27.75S–.04 71.1W–.10 67–7 4.0b **¶16989138**
GUC VI 01 16 25 00.9–.37 28.14S 70.50W 72–10 3.8L
SJA VI 01 16 25 00.6–1.1 28.01S 71.03W 54–16 4.2W,3.6L
IDC VI 01 16 25 21.9–7.9 24.35S 65.74W 0 4.4L,4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=6.6km az=2.7.
GUC Error ellipse: s-maj=3.7km s-min=32.6km az=-1.0.
SJA Error ellipse: s-maj=13.6km s-min=23.3km az=-1.0.
IDC Error ellipse: s-maj=351.8km s-min=34.5km az=14.0.

ISC VI 01 19 10 31.7–3.0 27.50S–.08 71.7W–.20 13–14 16 1-5
GUC VI 01 19 10 31.1–.54 27.57S 71.83W 35–10 3.4L **¶16989141**
ISC Event type ke.
GUC Error ellipse: s-maj=5.3km s-min=5.2km az=-1.0.

ISC VI 08 05 26 54.8–1.8 23.94S–.04 70.36W–.08 14–11 25 0-148
IDC VI 08 05 26 51.3–1.5 24.16S 70.60W 0 3.8,3.8b **¶17205532**
GUC VI 08 05 26 57.9–1.3 23.92S 70.36W 33–6 4.4L,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=60.7km s-min=32.6km az=133.0.
GUC Error ellipse: s-maj=2.9km s-min=9.1km az=-1.0.

ISC VI 10 04 55 39.3–.53 26.26S–.03 70.66W–.05 19–2 4.8b,3.8s 659 1-174
ISCJB VI 10 04 55 38.3–.81 26.23S–.02 70.76W–.04 25–6 4.8b,3.9s **¶16587357**
GUC VI 10 04 55 39.3–.80 26.27S 70.66W 39–4 5.0L,3.9s
NEIC VI 10 04 55 39.0 26.27S 70.66W 39 4.8b,4.5W
MOS VI 10 04 55 41.8–1.1 26.04S 70.56W 40 4.9b,4.5W
IDC VI 10 04 55 44.4–3.0 26.22S 70.60W 58–25 4.5,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.4km az=177.2.
GUC Error ellipse: s-maj=1.7km s-min=12.7km az=-1.0.
NEIC Event type fe. Felt [IV] at Copiapo and Tierra Amarilla, [III] at Caldera and Chanaral and [II] at Diego de Almagro and Los Loros. After GUC. Moment Tensor Solution. s20 Moment tensor: Scale 10^{15}Nm; M_{rr}0.73 $M_{\theta\theta}$-5.43 $M_{\phi\phi}$4.70 $M_{r\theta}$3.22 $M_{\theta\phi}$-0.99 $M_{\phi r}$-5.38 Best double couple: NP1:ϕ_s227.00000°,δ42.00000°,λ8.00000°. NP2:ϕ_s131.00000°,δ85.00000°,λ132.00000°. Principal axes: T 8.9500,Plg36.0000°,Azm77.0000°; N -1.9800,Plg42.0000°,Azm307.0000° ; P -6.9700,Plg28.0000°,Azm189.0000° M_o8.10000×10^{15}
MOS Error ellipse: s-maj=14.3km s-min=7.9km az=106.1.
IDC Error ellipse: s-maj=21.0km s-min=14.9km az=47.0.

ISC VI 10 23 06 57.1–1.6 19.75S–.03 70.53W–.08 23–13 24 0-145
GUC VI 10 23 06 59.3–.64 19.72S 70.49W 33–4 3.3L **¶17205740**
ISCJB VI 10 23 07 00.0–1.2 19.69S–.03 70.48W–.07 24–8 3.5b
IDC VI 10 23 07 05.6–4.9 19.91S 70.47W 92–29 3.6,3.4
ISC Event type ke.
GUC Error ellipse: s-maj=2.3km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.7km az=172.0.
IDC Error ellipse: s-maj=73.8km s-min=12.7km az=93.0.

ISC VI 12 04 32 28.9–.88 26.66S–.04 70.89W–.07 34 26 1-151
IDC VI 12 04 32 25.8–2.4 26.88S 70.64W 0 4.1L,3.9 **¶16730146**
GUC VI 12 04 32 30.0–.56 26.61S 70.41W 59–19 3.7L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=107.5km s-min=32.8km az=98.0.
GUC Error ellipse: s-maj=4.2km s-min=65.9km az=-1.0.

ISC VI 12 07 01 32.6–2.7 27.27S–.10 70.22W–.08 116–19 19 0-4
SJA VI 12 07 01 32.2–.45 27.24S 69.91W 182–7 3.1W,2.9L **¶16989339**
ISCJB VI 12 07 01 34.5–1.4 27.40S–.06 70.26W–.08 104–11 3.1W,2.9L
GUC VI 12 07 01 35.5–.40 27.44S 70.16W 97–3 3.0L,2.9L
ISC Event type ke.
SJA Error ellipse: s-maj=4.5km s-min=4.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.8km az=176.7.
GUC Error ellipse: s-maj=1.8km s-min=5.2km az=-1.0.

ISC VI 12 23 24 46.5–.50 21.30S–.03 70.52W–.05 38–1 4.7b 343 1-153
ISCJB VI 12 23 24 44.8–.15 21.26S–.02 70.69W–.03 33 4.7b **¶16593447**
SCB VI 12 23 24 45.5–1.3 21.27S 70.38W 35 4.0L
GUC VI 12 23 24 47.0–.33 21.29S 70.47W 52–7 4.7L
NEIC VI 12 23 24 47.0 21.29S 70.47W 52 4.7b
IDC VI 12 23 24 51.2–1.8 21.27S 70.21W 80–16 4.3,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=140.8.
SCB Event type ke. Error ellipse: s-maj=36.6km s-min=12.0km az=66.0.
GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.
NEIC Event type fe. Felt [IV] at Calama; [III] at Alto Hospicio, Iquique and Quillagua; [II] at Pozo Almonte. After GUC.
IDC Error ellipse: s-maj=21.9km s-min=13.6km az=74.0.

ISC VI 18 21 20 32.5–2.7 19.24S–.04 70.04W–.05 13–25 21 0-4
SCB VI 18 21 20 20.0–.63 19.68S 71.28W 45 3.6L **¶601517817**

GUC VI 18 21 20 33.8–.42 19.25S 70.03W 36–2 3.8L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=50.4km s-min=13.5km az=128.0.
GUC Error ellipse: s-maj=0.8km s-min=1.5km az=-1.0.
ISC VI 24 09 58 41.1–.56 26.66S–.04 70.86W–.08 34 4.4b 67 2-159
SJA VI 24 09 58 33.6–.57 26.28S 71.32W 204–25 4.7L,4.3W **¶16658837**
IDC VI 24 09 58 35.8–.66 26.84S 70.56W 0 4.3,4.2b
NEIC VI 24 09 58 38.2–.47 26.71S 70.78W 10 4.5b,4.2b
ISCJB VI 24 09 58 40.4–.32 26.62S–.02 70.81W–.08 34 4.3b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
GUC VI 24 17 15 00.1–.67 21.27S 70.35W 47–54 3.6L
¶601517864
GUC Error ellipse: s-maj=2.0km s-min=4.5km az=-1.0.
ISC VI 24 22 13 56.4–.83 22.39S–.04 70.10W–.06 52–6 4.1b 29 0-147
IDC VI 24 22 13 49.7–3.9 22.94S 69.47W 0 3.6,3.6b **¶16704932**
ISCJB VI 24 22 13 55.9–.43 22.38S–.03 70.12W–.06 62–4 4.1b,3.6b
NEIC VI 24 22 13 56.0 22.37S 70.08W 51 4.2b,3.6b
GUC VI 24 22 13 56.3–.54 22.37S 70.08W 51–2 4.0L,3.6b
ISC Event type fe.
IDC Error ellipse: s-maj=134.5km s-min=43.4km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=18.8.
NEIC Event type fe. Felt [III] at Tocopilla. After GUC.
GUC Error ellipse: s-maj=1.2km s-min=2.3km az=-1.0.
ISC VI 25 14 21 32.2–1.0 24.72S–.06 70.49W–.10 54–7 29 0-149
SJA VI 25 14 21 10.6–.60 24.61S 70.76W 539–23 4.7L,4.0W **¶16731442**
ISCJB VI 25 14 21 31.3–1.1 24.72S–.04 70.5W–.10 64–7 4.0b,4.0W
IDC VI 25 14 21 33.0–1.1 24.89S 70.19W 58–6 4.2,4.1
GUC VI 25 14 21 32.6–.33 24.61S 69.98W 20–2 4.1L,4.1
ISC Event type ke.
SJA Error ellipse: s-maj=14.2km s-min=33.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=6.9km az=172.9.
IDC Error ellipse: s-maj=51.0km s-min=11.5km az=113.0.
GUC Error ellipse: s-maj=1.7km s-min=1.6km az=-1.0.
ISC VI 29 02 32 36.2–2.1 27.89S–.04 71.26W–.08 2–13 23 1-7
GUC VI 29 02 32 39.9–.67 27.94S 71.14W 33–7 3.6L **¶16989679**
ISC Event type ke.
GUC Error ellipse: s-maj=1.8km s-min=14.9km az=-1.0.
ISC VI 30 09 20 29.2–1.3 27.89S–.03 71.13W–.08 10 29 1-7
ISCJB VI 30 09 20 29.0–1.1 27.83S–.03 71.21W–.09 10 **¶16989717**
GUC VI 30 09 20 29.3–.55 27.91S 71.04W 34–3 3.5L
SJA VI 30 09 20 30.5–.76 27.89S 71.15W 20 3.5L,3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=4.0km az=5.9.
GUC Error ellipse: s-maj=1.1km s-min=5.2km az=-1.0.
SJA Error ellipse: s-maj=2.7km s-min=6.3km az=-1.0.

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GUC I 01 00 31 41.1–.45 22.20S 69.90W 47–2 3.2L
¶601515962
GUC Error ellipse: s-maj=1.7km s-min=3.0km az=-1.0.
ISC I 01 05 56 03.6–.72 22.33S–.06 68.37W–.07 98–7 3.8b 28 1-146
ISCJB I 01 05 56 03.1–.56 22.37S–.05 68.44W–.08 108–7 3.7b **¶17189113**
IDC I 01 05 56 03.7–.60 22.46S 68.40W 99–9 3.8,3.5
GUC I 01 05 56 05.0–.54 22.34S 68.61W 104–4 4.0L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=8.2km az=172.5.
IDC Error ellipse: s-maj=27.7km s-min=21.0km az=177.0.
GUC Error ellipse: s-maj=2.7km s-min=4.1km az=-1.0.
ISC I 02 16 35 38.0–1.2 18.34S–.07 69.5W–.20 129–11 20 1-77
ISCJB I 02 16 35 37.6–.81 18.39S–.05 69.4W–.10 137–8 3.8b **¶17189226**
GUC I 02 16 35 39.9–.46 18.52S 69.57W 138–5 3.4L
IDC I 02 16 35 39.6–2.5 18.38S 69.16W 130–10 4.1,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=6.5km az=16.2.
GUC Error ellipse: s-maj=3.4km s-min=8.5km az=-1.0.
IDC Error ellipse: s-maj=61.7km s-min=9.5km az=101.0.
ISC I 08 13 20 11.9–.34 24.31S–.04 69.06W–.06 99–2 4.6b 566 2-176
ISCJB I 08 13 20 10.7–.60 24.35S–.05 69.05W–.06 99–4 4.6b **¶15927189**
GUC I 08 13 20 10.6–.24 24.41S 69.16W 79–11 5.1L
MOS I 08 13 20 11.4–1.1 24.32S 68.95W 102 4.7b
NEIC I 08 13 20 12.2–.24 24.26S 68.94W 99 4.6b
IDC I 08 13 20 12.3–.40 24.30S 69.09W 100–3 4.6,4.5
BJI I 08 13 20 14.1 24.30S 68.90W 90 5.3s,5.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.3km az=143.7.
GUC Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=16.6km s-min=10.1km az=108.3.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.1km az=54.0. Felt [II] at Copiapo and Tierra Amarilla. Also felt at Antofagasta.
IDC Error ellipse: s-maj=13.9km s-min=7.0km az=91.0.
ISC I 10 07 03 48.1–.97 22.63S–.05 69.94W–.08 40–9 17 0-147
IDC I 10 07 03 39.6–1.7 23.22S 70.01W 0 3.8,3.8b **¶17189824**
ISCJB I 10 07 03 47.5–.60 22.64S–.04 69.9W–.10 47–8 3.7b,3.8b
GUC I 10 07 03 48.0–.32 22.27S 70.63W 21–3 3.5L,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=55.9km s-min=17.0km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=6.1km az=10.8.
GUC Error ellipse: s-maj=1.5km s-min=3.6km az=-1.0.
ISC I 10 09 54 33.8–.48 19.18S–.04 69.23W–.07 104–4 4.6b 455 1-170
ISCJB I 10 09 54 30.9–.50 19.01S–.04 69.15W–.06 93–5 4.6b **¶16150968**
GUC I 10 09 54 33.2–.43 19.17S 69.51W 104–3 5.0L
IDC I 10 09 54 34.5–.56 19.04S 69.08W 107–4 4.4,4.2
NEIC I 10 09 54 34.8–.65 19.10S 69.05W 111–6 4.7b,4.2
BJI I 10 09 54 36.9 19.00S 68.90W 119 5.1b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.9km az=156.2.
GUC Error ellipse: s-maj=1.6km s-min=9.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=13.8km az=49.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=64.0. Felt [III] at Cuya and Iquique; [II] at Arica.
ISC I 10 23 28 51.7–1.9 23.30S–.09 68.72W–.09 100–28 28 1-9
ISCJB I 10 23 28 49.2–.70 23.29S–.04 68.58W–.10 112–15 **¶601516125**
GUC I 10 23 28 50.2–.45 23.26S 68.66W 103–3 3.8L
SJA I 10 23 28 51.7–.58 23.55S 68.64W 90–46 3.7L,3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=7.2km az=5.0.
GUC Error ellipse: s-maj=1.7km s-min=3.3km az=-1.0.
SJA Error ellipse: s-maj=21.3km s-min=44.1km az=-1.0.
ISC I 11 13 49 40.2–.86 22.37S–.05 68.98W–.06 94–7 28 0-146
SJA I 11 13 49 23.2–.43 21.73S 69.93W 33 3.7W,3.2L **¶17189921**
GUC I 11 13 49 38.8–.60 22.44S 68.86W 98–6 4.1L,3.2L
IDC I 11 13 49 38.5–.94 22.56S 68.64W 89–10 3.7,3.5
ISCJB I 11 13 49 39.2–.49 22.46S–.04 69.00W–.06 107–5 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
GUC I 12 06 37 24.2–.33 22.73S 68.45W 142–4 2.9L
¶601516150
GUC Error ellipse: s-maj=1.7km s-min=4.4km az=-1.0.
GUC I 12 20 17 42.4–.57 22.43S 68.69W 119–5 3.0L
¶601516161
GUC Error ellipse: s-maj=2.6km s-min=5.7km az=-1.0.
GUC I 14 16 10 34.1–.43 18.95S 69.62W 96–4 3.5L
¶601516180
GUC Error ellipse: s-maj=2.3km s-min=6.3km az=-1.0.
GUC I 17 13 01 10.0–.39 22.30S 68.93W 112–3 3.6L
¶601516216
GUC Error ellipse: s-maj=1.6km s-min=3.4km az=-1.0.
ISC I 18 03 40 39.2–1.1 23.53S–.09 68.15W–.10 124–10 4.3b 25 1-147
ISCJB I 18 03 40 38.5–.95 23.52S–.08 68.2W–.10 133–11 4.0b **¶16016420**
NEIC I 18 03 40 39.0 23.54S 68.33W 132 4.1
GUC I 18 03 40 39.6–.40 23.54S 68.33W 132–4 4.1L
IDC I 18 03 40 40.0–1.4 23.40S 67.97W 120–12 4.3,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=11.7km az=28.9.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=26.1km s-min=21.2km az=3.0.
ISC I 18 21 30 47.1–.27 19.13S–.03 69.35W–.05 117–2 5.2b 977 1-172
ISCJB I 18 21 30 43.5–.35 18.93S–.03 69.26W–.03 97–4 5.2b **¶15938048**
SCB I 18 21 30 46.7–1.3 18.89S 69.83W 80 4.4L
NEIC I 18 21 30 47.0 19.20S 69.40W 103 5.3b
IDC I 18 21 30 47.5–.34 19.00S 69.25W 119–2 5.0,4.8
GUC I 18 21 30 47.0–.34 19.20S 69.40W 103–2 5.8L,4.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=40.1.
SCB Event type ke. Error ellipse: s-maj=90.4km s-min=30.4km az=119.0.
NEIC Event type fe. Felt [V] at Camina and Huara; [IV] at Alto Hospicio, Arica and Cerro Colorado; [III] at Codpa, Iquique and Pisagua; [II] at Cuya, Pica and Putre. Felt [III] at Arequipa and Tacna, Peru. Also felt at Moquegua. After GUC.
IDC Error ellipse: s-maj=10.2km s-min=8.6km az=39.0.
GUC Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
ISC I 19 01 06 57.5–.75 20.64S–.04 69.24W–.08 108–7 3.9b 32 0-145
ISCJB I 19 01 06 56.7–.41 20.62S–.04 69.22W–.08 114–4 3.8b **¶17190518**
GUC I 19 01 06 57.1–.46 20.67S 69.26W 108–3 4.5L
IDC I 19 01 06 58.4–1.2 20.65S 69.13W 117–15 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.7km az=174.9.
GUC Error ellipse: s-maj=1.1km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=15.2km az=102.0.
ISC I 19 05 24 57.2–.94 22.58S–.06 68.90W–.08 110–8 23 0-78
ISCJB I 19 05 24 56.4–.67 22.64S–.05 68.92W–.08 117–6 4.0b **¶17190531**
GUC I 19 05 24 57.1–.59 22.63S 68.97W 111–5 4.2L
IDC I 19 05 24 57.5–1.1 22.70S 68.59W 95–19 4.3,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=9.0km az=179.2.
GUC Error ellipse: s-maj=2.6km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=58.1km s-min=35.3km az=131.0.
ISC I 20 11 02 53.4–.54 19.68S–.04 69.18W–.06 106–5 4.2b 58 0-152
ISCJB I 20 11 02 52.0–.33 19.64S–.04 69.08W–.06 111–4 4.3b **¶16151932**
GUC I 20 11 02 53.7–.39 19.68S 69.23W 102–3 4.7L
IDC I 20 11 02 53.6–.55 19.64S 68.95W 106–5 4.3,4.1
NEIC I 20 11 02 54.6–.66 19.61S 68.90W 114–6 5.2b,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.2km az=166.5.
GUC Error ellipse: s-maj=1.0km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=8.7km az=84.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=8.6km az=93.0. Felt [II] at Camina and Mamina.
ISC I 21 23 52 56.3–.99 20.72S–.05 69.0W–.10 107–11 18 1-145
ISCJB I 21 23 52 55.7–.79 20.77S–.05 69.1W–.10 119–10 2.9b **¶17190702**
GUC I 21 23 52 56.6–.75 20.78S 69.18W 110–6 3.5L
IDC I 21 23 52 58.8–1.6 20.87S 68.66W 116–16 3.3,3.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=7.5km az=169.6.
GUC Error ellipse: s-maj=3.0km s-min=7.5km az=-1.0.
IDC Error ellipse: s-maj=44.5km s-min=16.5km az=104.0.
ISC I 22 03 33 48.4–.79 20.03S–.04 69.4W–.10 107–8 3.8b 27 0-127
ISCJB I 22 03 33 47.8–.45 20.02S–.03 69.4W–.10 113–6 3.8b **¶17190712**
GUC I 22 03 33 48.6–.49 20.01S 69.36W 99–3 3.7L
IDC I 22 03 33 49.8–1.7 20.02S 69.08W 112–15 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=5.5km az=179.5.
GUC Error ellipse: s-maj=1.2km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=34.2km s-min=13.3km az=101.0.
SJA I 22 06 10 16.7–.43 26.02S 69.02W 200–12 3.5L,3.3W
¶601891133
SJA Error ellipse: s-maj=5.5km s-min=9.7km az=-1.0.
ISC I 22 15 24 09.2–.91 22.44S–.07 68.22W–.07 99–10 23 1-77
ISCJB I 22 15 24 08.1–.70 22.40S–.06 68.17W–.07 101–9 3.4b **¶17190750**
IDC I 22 15 24 08.7–1.1 22.61S 68.07W 87–11 3.7,3.6
GUC I 22 15 24 10.1–.51 22.41S 68.58W 128–5 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=10.0km az=172.1.
IDC Error ellipse: s-maj=29.4km s-min=18.3km az=166.0.
GUC Error ellipse: s-maj=2.5km s-min=5.3km az=-1.0.
GUC I 24 07 12 19.0–.70 27.63S 69.15W 108–20 3.6L
¶601516307
GUC Error ellipse: s-maj=4.2km s-min=14.3km az=-1.0.
ISC I 28 00 08 44.9–.83 19.55S–.05 69.1W–.10 103–10 3.6b 20 1-89
ISCJB I 28 00 08 44.2–.51 19.53S–.05 69.1W–.10 109–8 3.6b **¶17191160**
GUC I 28 00 08 45.7–.42 19.47S 69.35W 105–3 3.7L
IDC I 28 00 08 47.7–2.0 19.44S 68.92W 121–16 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=7.7km az=8.3.
GUC Error ellipse: s-maj=1.3km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=22.2km az=99.0.
GUC I 28 15 18 41.2–.55 22.74S 69.11W 94–4 3.8L
¶601516370
GUC Error ellipse: s-maj=2.1km s-min=4.3km az=-1.0.
ISC I 28 22 19 57.8–.66 22.58S–.04 68.31W–.06 124–6 4.2b 55 1-146
ISCJB I 28 22 19 56.8–.43 22.53S–.04 68.28W–.06 125–4 4.1b **¶16136078**
IDC I 28 22 19 57.6–.59 22.46S 68.24W 114–6 4.2,3.9
NEIC I 28 22 19 58.0 22.54S 68.58W 137 4.3b,3.9
GUC I 28 22 19 58.5–.59 22.54S 68.58W 137–6 4.5L,3.9
SCB I 28 22 20 14.3–1.1 21.14S 68.44W 110 3.6L,3.9
ISC Event type se.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.5km az=167.2.
IDC Error ellipse: s-maj=18.9km s-min=15.4km az=1.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.3km s-min=6.9km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=109.1km s-min=25.7km az=88.0.
GUC I 29 21 12 43.9–.63 23.49S 68.84W 109–8 3.5L
¶601516383
GUC Error ellipse: s-maj=3.5km s-min=5.8km az=-1.0.
ISC I 31 23 55 29.1–.61 23.85S–.04 68.05W–.04 118–5 4.5b 90 1-156
ISCJB I 31 23 55 28.8–.29 23.83S–.03 68.04W–.04 125–3 4.7b **¶15995145**
NEIC I 31 23 55 29.0 23.81S 68.38W 155 4.6b
GUC I 31 23 55 29.8–.57 23.81S 68.38W 155–11 4.8L
IDC I 31 23 55 29.5–1.1 23.77S 67.81W 117–9 4.5,4.2
SJA I 31 23 55 31.1–.53 23.98S 67.73W 167–21 3.2L,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.1km az=137.4.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.2km s-min=9.4km az=-1.0.
IDC Error ellipse: s-maj=16.6km s-min=13.8km az=48.0.
SJA Error ellipse: s-maj=4.2km s-min=13.2km az=-1.0.
ISC II 01 07 30 46.5–.88 19.31S–.05 69.5W–.10 103–7 21 0-135
ISCJB II 01 07 30 46.3–.66 19.32S–.04 69.6W–.10 109–6 3.5b **¶17191463**
GUC II 01 07 30 46.2–.63 19.29S 69.47W 101–4 4.1L
IDC II 01 07 30 48.0–1.8 19.35S 69.10W 114–18 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=6.4km az=4.7.
GUC Error ellipse: s-maj=1.9km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=40.6km s-min=13.3km az=102.0.
ISC II 01 17 33 57.1–1.3 18.48S–.07 69.7W–.20 104–8 18 0-88
ISCJB II 01 17 33 56.9–.82 18.51S–.05 69.6W–.20 114–6 3.6b **¶17191496**
GUC II 01 17 33 56.3–.26 18.47S 69.62W 102–1 3.8L
IDC II 01 17 33 58.9–2.2 18.58S 69.46W 123–18 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.2km s-min=7.7km az=9.9.

GUC Error ellipse: s-maj=1.4km s-min=8.4km az=-1.0.
IDC Error ellipse: s-maj=42.4km s-min=15.0km az=100.0.
ISC II 01 20 13 37.6–.83 20.52S–.03 69.12W–.06 106–7 3.9b 38 1-145
ISCJB II 01 20 13 36.7–.42 20.50S–.03 69.04W–.06 112–6 3.8b **¶17191511**
GUC II 01 20 13 37.4–.34 20.52S 69.08W 100–2 4.5L
IDC II 01 20 13 38.9–1.5 20.61S 68.67W 113–14 4.1,3.8
SCB II 01 20 13 42.7–1.2 19.90S 69.39W 96 3.6L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.6km az=175.0.
GUC Error ellipse: s-maj=0.7km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=32.5km s-min=14.5km az=106.0.
SCB Event type ke. Error ellipse: s-maj=107.0km s-min=28.4km az=108.0.
ISC II 01 23 38 46.3–.74 20.72S–.04 69.11W–.09 108–8 4.7b 37 0-145
ISCJB II 01 23 38 45.4–.41 20.71S–.03 69.05W–.08 113–5 4.8b **¶16337747**
GUC II 01 23 38 45.9–.41 20.73S 69.25W 114–2 3.9L
NEIC II 01 23 38 46.7–1.1 20.78S 68.77W 109–13 4.9b
IDC II 01 23 38 48.4–1.4 20.78S 68.58W 112–14 4.2,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.2km az=177.6.
GUC Error ellipse: s-maj=0.9km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=23.2km s-min=12.1km az=104.0. Felt [II] at Alto Hospicio, Huara, Iquique, Pica and Pozo Almonte.
IDC Error ellipse: s-maj=45.1km s-min=13.5km az=105.0.
ISC II 02 18 00 44.7–2.5 27.92S–.08 69.54W–.06 114–24 15 1-4
ISCJB II 02 18 00 43.7–1.3 27.91S–.07 69.54W–.07 120–14 **¶601516438**
SJA II 02 18 00 44.7–.34 28.02S 69.37W 140–4 2.9L
GUC II 02 18 00 44.6–.54 27.97S 69.30W 72–20 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=8.8km az=35.1.
SJA Error ellipse: s-maj=6.5km s-min=7.0km az=-1.0.
GUC Error ellipse: s-maj=2.3km s-min=6.9km az=-1.0.
ISC II 03 03 47 49.8–1.3 22.83S–.08 68.3W–.10 123–9 19 1-93
IDC II 03 03 47 47.8–2.0 22.96S 68.02W 106–18 4.0,3.8 **¶17191572**
ISCJB II 03 03 47 49.0–1.1 22.83S–.08 68.3W–.10 128–10 3.7b,3.8
GUC II 03 03 47 49.5–.43 22.76S 68.37W 133–5 3.6L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=48.7km s-min=31.1km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=11.2km az=19.4.
GUC Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
ISC II 03 12 59 55.7–.58 20.33S–.03 69.17W–.06 94–5 4.4b 268 1-168
SCB II 03 12 59 53.0–.89 20.41S 69.59W 75 4.1L **¶16328651**
ISCJB II 03 12 59 54.0–.40 20.26S–.03 69.03W–.05 94–3 4.4b
GUC II 03 12 59 55.8–.43 20.38S 69.28W 94–3 4.8L
IDC II 03 12 59 56.2–.66 20.31S 69.00W 100–6 4.4,4.2
NEIC II 03 12 59 56.9–.28 20.26S 68.88W 100 4.4b,4.3W
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=86.6km s-min=18.5km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.6km az=174.7.
GUC Error ellipse: s-maj=0.9km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=8.3km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.6km az=78.0. Felt [V] at Mamina and Pica, [IV] at Huara and Pozo Almonte and [III] at Alto Hospicio and Iquique. Moment Tensor Solution. s9 Moment tensor: Scale 10^{15}Nm; M_{rr}-2.50 $M_{\theta\theta}$0.25 $M_{\phi\phi}$2.24 $M_{r\theta}$0.13 $M_{\theta\phi}$-0.92 $M_{\phi r}$-2.11 Best double couple: NP1:ϕ_s147.00000°,δ27.00000°,λ-110.00000°. NP2: ϕ_s350.00000°,δ65.00000°,λ-80.00000°. Principal axes: T 3.3100,Plg19.0000°,Azm73.0000° ; N 0.0000,Plg9.0000°,Azm166.0000°; P -3.3200,Plg68.0000°,Azm279.0000° M_o3.30000×10^{15}
ISC II 05 00 26 18.5–1.4 27.60S–.08 69.88W–.07 88 15 0-5
SJA II 05 00 26 16.3–.49 27.63S 69.71W 162–8 2.8W,2.7L **¶601516463**
GUC II 05 00 26 16.7–.57 27.60S 69.68W 87–8 4.5L,2.7L
ISCJB II 05 00 26 17.7–.71 27.61S–.07 69.82W–.07 88 4.5L,2.7L
ISC Event type ke.
ISCJB Event type ke.
ISC II 08 13 03 30.5–.24 27.63S–.03 69.73W–.05 99–1 5.5b 573 1-177
MOS II 08 13 03 27.3–.99 27.60S 69.60W 76 5.8b **¶16328776**
SJA II 08 13 03 28.2–.57 27.55S 69.97W 131–13 5.3L
GUC II 08 13 03 29.6–.87 27.56S 69.87W 105–4 5.7L
NEIC II 08 13 03 30.6–.14 27.62S 69.52W 95 5.5b,5.4W
IDC II 08 13 03 30.7–.36 27.55S 69.52W 99–2 4.7,4.5
GCMT II 08 13 03 30.6–.20 27.82S 69.96W 109–1 5.4W,4.5
BJI II 08 13 03 31.0 27.60S 69.50W 95 5.3b,4.5
ISCJB II 08 13 03 47.4–.29 28.35S–.06 68.5W–.10 101 5.5b,4.5
ISC Event type fe.
SJA Moment Tensor Solution. NP1:ϕ_s357.21000°,δ78.00000°,λ-88.98000°.
NEIC Event type fe. Felt [V] at Chanaral, Copiapo and Tierra Amarilla; [IV] at Vallenar; [III] at Caldera, Coquimbo, Diego de Almagro, Freirina, Huasco, La Higuera and La Serena; [II] at Taltal. Also felt at La Ligua. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80 $M_{\theta\theta}$-0.61 $M_{\phi\phi}$1.40 $M_{r\theta}$0.50 $M_{\theta\phi}$-0.48 $M_{\phi r}$0.76 Best double couple: NP1:ϕ_s312.00000° ,δ44.00000°,λ-150.00000°. NP2:ϕ_s200.00000°,δ70.00000°,λ-50.00000°. Principal axes: T 1.6800,Plg15.0000°,Azm262.0000°; N -0.2000,Plg37.0000°,Azm4.0000° ; P -1.4900,Plg49.0000°,Azm153.0000° M_o1.60000×10^{17} Moment Tensor Solution. s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.87 $M_{\theta\theta}$-0.35 $M_{\phi\phi}$1.22 $M_{r\theta}$0.68 $M_{\theta\phi}$0.50 $M_{\phi r}$0.69 Best double couple: NP1:ϕ_s347.00000°,δ33.00000°,λ-137.00000°. NP2:ϕ_s219.00000° ,δ68.00000°,λ-64.00000°. Principal axes: T 1.6700,Plg19.0000°,Azm291.0000° ; N -0.2900,Plg24.0000°,Azm29.0000°; P -1.3800,Plg59.0000°,Azm165.0000° M_o1.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c146; s106,c180;Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.31±.02 $M_{\theta\theta}$-0.62±.02; $M_{\phi\phi}$0.93±.03; $M_{r\theta}$0.36±.01; $M_{\theta\phi}$-0.72±.02; $M_{\phi r}$0.89±.02; Best double couple: NP1:ϕ_s199.00000°,δ82.00000°,λ-44.00000°. NP2:ϕ_s296.00000° ,δ47.00000°,λ-169.00000°. Principal axes: T 1.5060,Plg23.0000°,Azm255.0000° ; N -0.1170,Plg45.0000°,Azm10.0000°; P -1.3890,Plg36.0000°,Azm147.0000° M_o1.44700×10^{17}
ISCJB Event type fe.
ISC II 11 01 23 13.3–.86 19.41S–.06 69.3W–.10 99 3.6b 18 0-127
ISCJB II 11 01 23 12.5–.57 19.38S–.05 69.17W–.07 99 3.6b **¶17192040**
GUC II 11 01 23 14.1–.35 19.47S 69.46W 99–3 3.9L
IDC II 11 01 23 15.2–1.8 19.48S 69.10W 116–16 3.8,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.7km az=21.3.
GUC Error ellipse: s-maj=1.6km s-min=7.0km az=-1.0.
IDC Error ellipse: s-maj=32.5km s-min=13.8km az=103.0.
ISC II 13 08 48 19.8–1.5 23.05S–.06 68.9W–.10 100 13 1-147
GUC II 13 08 48 18.4–.30 23.06S 68.81W 98–7 3.9L **¶601516573**
ISCJB II 13 08 48 19.2–1.1 23.06S–.05 68.82W–.09 100 3.6b
IDC II 13 08 48 45.2–7.9 18.14S 63.38W 0 3.7,3.6b
ISC Event type ke.
GUC Error ellipse: s-maj=1.3km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.7km az=16.3.
IDC Error ellipse: s-maj=343.3km s-min=37.4km az=10.0.
ISC II 14 21 56 45.0–.25 20.00S–.03 69.15W–.04 105–2 5.0b 961 1-179
MOS II 14 21 56 40.2–1.0 19.89S 68.96W 68 5.4b **¶16024887**
ISCJB II 14 21 56 42.7–.30 19.91S–.03 68.97W–.04 96–3 5.0b
SCB II 14 21 56 43.4–1.5 19.92S 69.59W 80 4.5L
BJI II 14 21 56 44.8 20.00S 69.00W 97 5.5b
GUC II 14 21 56 44.9–.53 20.04S 69.30W 105–4 5.6L
GCMT II 14 21 56 45.5–.20 20.13S 69.20W 124–1 5.2W
IDC II 14 21 56 45.1–.40 19.91S 69.02W 105–2 5.0,4.7
NEIC II 14 21 56 45.5–.31 19.97S 68.83W 106–2 5.2W,5.0b
SJA II 14 21 57 27.9–.95 23.04S 66.97W 20–68 3.3L,5.0b
ISC Event type fe.
MOS Error ellipse: s-maj=15.2km s-min=7.1km az=117.8.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=149.6.
SCB Event type ke. Error ellipse: s-maj=110.0km s-min=39.3km az=111.0.
GUC Error ellipse: s-maj=1.3km s-min=4.2km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c82; s93,c156; Duration: 1ŝ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.33±.02 $M_{\theta\theta}$-0.20±.02; $M_{\phi\phi}$0.53±.03; $M_{r\theta}$0.45±.01; $M_{\theta\phi}$0.53±.02; $M_{\phi r}$-0.34±.02; Best double couple: NP1:ϕ_s350.00000°,δ67.00000° ,λ-144.00000°. NP2:ϕ_s244.00000°,δ57.00000°,λ-28.00000°. Principal axes: T 0.8200,Plg6.0000°,Azm115.0000°; N 0.1460,Plg48.0000°,Azm19.0000° ; P -0.9660,Plg41.0000°,Azm210.0000° M_o0.89300×10^{17}
IDC Error ellipse: s-maj=13.1km s-min=10.5km az=46.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.8km az=62.0. Felt [V] at Camina, Huara and Pozo Almonte; [IV] at Alto Hospicio, Arica, Cuya and Iquique; [III] at Pisagua and Putre. Moment Tensor Solution. s13 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.22 $M_{\theta\theta}$0.04 $M_{\phi\phi}$4.18 $M_{r\theta}$2.25 $M_{\theta\phi}$5.09 $M_{\phi r}$-5.73 Best double couple: NP1:ϕ_s359.00000°,δ72.00000°,λ-12.00000°. NP2:ϕ_s247.00000°,δ42.00000°,λ-28.00000°. Principal axes: T 10.1000,Plg62.0000° ,Azm97.0000°; N -3.0000,Plg16.0000°,Azm335.0000°; P -7.2000,Plg23.0000° ,Azm238.0000° M_o9.00000×10^{16}
SJA Error ellipse: s-maj=31.6km s-min=39.2km az=-1.0.
GUC II 15 10 05 40.2–.43 22.04S 68.55W 109–8 5.4L
¶601516597
GUC Error ellipse: s-maj=2.1km s-min=6.1km az=-1.0.
GUC II 16 08 16 45.1–.38 20.28S 69.44W 111–3 4.4L
¶601516606
GUC Error ellipse: s-maj=1.5km s-min=6.0km az=-1.0.
ISC II 16 13 51 25.1–.79 22.70S–.06 69.13W–.06 108–7 4.4b 26 0-147
IDC II 16 13 51 23.8–3.7 22.59S 68.77W 94–31 4.2,3.9 **¶17192368**
ISCJB II 16 13 51 24.2–.44 22.70S–.06 69.14W–.06 116–5 4.1b,3.9
GUC II 16 13 51 25.2–.56 22.70S 69.12W 105–4 4.3L,3.9
SJA II 16 13 51 33.4–.46 23.01S 68.36W 65–20 2.9L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=20.5km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.4km az=41.6.
GUC Error ellipse: s-maj=3.6km s-min=5.6km az=-1.0.
SJA Error ellipse: s-maj=6.0km s-min=6.1km az=-1.0.
ISC II 16 22 30 13.7–.75 20.18S–.05 69.23W–.10 107–7 3.9b 26 1-90
ISCJB II 16 22 30 12.9–.48 20.18S–.04 69.2W–.10 113–7 3.7b **¶17192387**
GUC II 16 22 30 14.6–.53 20.20S 69.31W 99–4 4.1L
IDC II 16 22 30 15.3–1.1 19.92S 68.99W 107–7 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=6.3km az=176.3.
GUC Error ellipse: s-maj=1.3km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=29.9km s-min=24.1km az=121.0.
GUC II 17 10 23 07.6–.40 21.20S 69.50W 75–2 3.5L
¶601516616
GUC Error ellipse: s-maj=0.7km s-min=3.3km az=-1.0.
ISC II 18 14 28 49.9–.73 19.97S–.04 69.13W–.07 100–7 27 1-131
ISCJB II 18 14 28 49.6–.52 19.96S–.04 69.20W–.09 112–7 3.7b **¶17192484**
GUC II 18 14 28 50.5–.42 19.96S 69.26W 101–3 4.3L
IDC II 18 14 28 52.3–2.4 19.92S 68.85W 120–21 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=5.8km az=4.7.
GUC Error ellipse: s-maj=0.9km s-min=3.3km az=-1.0.
IDC Error ellipse: s-maj=27.3km s-min=18.3km az=82.0.
SJA II 18 19 26 03.2–.72 26.42S 69.75W 70 3.7W,3.1L
¶602036041
SJA Error ellipse: s-maj=12.6km s-min=15.5km az=-1.0.
ISC II 19 02 05 22.7–.95 20.82S–.05 69.1W–.10 102–12 20 0-84
ISCJB II 19 02 05 22.0–.60 20.82S–.05 69.1W–.20 107–12 3.8b **¶17192515**
GUC II 19 02 05 23.1–.79 20.80S 69.08W 92–6 3.9L
IDC II 19 02 05 38.4–7.8 19.68S 68.31W 191–51 4.1s,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.5km s-min=7.5km az=0.8.
GUC Error ellipse: s-maj=2.1km s-min=6.7km az=-1.0.
IDC Error ellipse: s-maj=96.0km s-min=57.1km az=39.0.
GUC II 19 15 53 08.1–.42 20.87S 69.23W 108–2 3.6L
¶601516635
GUC Error ellipse: s-maj=0.9km s-min=2.8km az=-1.0.
ISC II 19 22 09 34.1–.52 23.32S–.04 68.85W–.07 102–4 4.2b 45 1-153
ISCJB II 19 22 09 32.5–.56 23.34S–.04 68.78W–.07 100–6 4.2b **¶16362998**
NEIC II 19 22 09 34.0 23.24S 69.02W 104 4.5b
GUC II 19 22 09 34.7–.42 23.24S 69.02W 104–4 4.6L
IDC II 19 22 09 35.1–.66 23.14S 68.65W 104–4 4.3,4.1
SCB II 19 22 09 59.2–.63 21.19S 68.81W 89 3.6L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=6.4km az=13.7.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=18.8km s-min=15.1km az=27.0.
SCB Event type ke. Error ellipse: s-maj=64.7km s-min=13.0km az=95.0.
ISC II 21 04 57 56.3–.46 23.03S–.04 68.66W–.04 110–4 4.5b 122 1-170
SJA II 21 04 57 46.4–.62 22.47S 69.13W 189–35 3.9W,3.9L **¶16057028**
ISCJB II 21 04 57 55.6–.27 23.10S–.03 68.68W–.04 119–3 4.6b,3.9L
BJI II 21 04 57 56.4 22.90S 68.70W 96 5.4b,3.9L
NEIC II 21 04 57 56.0 23.01S 68.76W 121 4.5b,3.9L
GUC II 21 04 57 56.5–.66 23.01S 68.76W 121–8 5.0L,3.9L
IDC II 21 04 57 56.8–.57 22.92S 68.48W 108–4 4.4,4.2
SCB II 21 04 58 16.7–.77 21.30S 68.88W 83 3.7L,4.2
ISC Event type fe.
SJA Error ellipse: s-maj=9.8km s-min=12.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=149.1.
NEIC Event type fe. Felt [IV] at Calama; [III] at Oficina Maria Elena, San Pedro de Atacama and Sierra Gorda; [II] at Copiapo and Tierra Amarilla. After GUC.
GUC Error ellipse: s-maj=3.1km s-min=7.6km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=13.9km az=35.0.
SCB Event type ke. Error ellipse: s-maj=87.9km s-min=17.3km az=99.0.
GUC II 21 20 17 11.9–.38 22.14S 68.87W 120–3 4.2L
¶601516660
GUC Error ellipse: s-maj=2.5km s-min=3.6km az=-1.0.
ISC II 24 07 22 35.6–.96 20.26S–.07 69.1W–.10 110–10 3.7b 15 1-152
ISCJB II 24 07 22 34.1–.68 20.22S–.07 69.0W–.10 108–10 3.8b **¶17192775**
GUC II 24 07 22 36.2–.55 20.23S 69.17W 105–5 3.6L
IDC II 24 07 22 53.4–6.3 18.76S 68.06W 214–37 3.8,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=11.0km az=171.3.
GUC Error ellipse: s-maj=2.0km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=91.4km s-min=21.0km az=24.0.
ISC II 27 11 46 00.1–.43 20.26S–.04 69.00W–.05 110–3 4.9b 391 1-173
BJI II 27 11 45 57.6 20.50S 69.19W 97 5.4b **¶16166747**
ISCJB II 27 11 45 58.1–.33 20.17S–.03 68.92W–.04 107–3 4.8b
NEIC II 27 11 45 59.0 20.26S 69.08W 108 4.9b
SCB II 27 11 45 59.8–.99 20.10S 69.20W 95 3.7L
GUC II 27 11 45 59.7–.38 20.26S 69.08W 108–3 4.5L
IDC II 27 11 46 00.6–.52 20.15S 68.80W 110–4 4.4,4.2
MOS II 27 11 46 03.2–1.6 20.11S 68.74W 148 4.9b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.6km az=146.6.
NEIC Event type fe. Felt at Iquique. After GUC.
SCB Event type ke. Error ellipse: s-maj=74.1km s-min=21.4km az=98.0.
GUC Error ellipse: s-maj=1.1km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.2km az=55.0.
MOS Error ellipse: s-maj=18.2km s-min=8.6km az=105.9.
ISC II 28 01 32 36.7–1.3 23.65S–.07 68.10W–.10 116–12 4.4b 29 2-147
ISCJB II 28 01 32 35.9–.93 23.65S–.06 68.10W–.09 123–10 4.5b **¶16349992**
IDC II 28 01 32 36.0–5.5 23.71S 68.10W 110–40 4.8,4.5
NEIC II 28 01 32 38.0 23.59S 68.41W 139 5.0b,4.5
GUC II 28 01 32 38.0–.32 23.59S 68.41W 139–6 5.1L,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=9.3km az=24.1.
IDC Error ellipse: s-maj=47.9km s-min=20.3km az=17.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=4.7km az=-1.0.
ISC II 28 20 45 42.9–.26 20.47S–.03 69.15W–.05 105–2 5.1b 853 0-178
ISCJB II 28 20 45 39.9–.37 20.29S–.03 68.91W–.04 92–3 5.1b **¶16166883**
GUC II 28 20 45 42.2–.66 20.46S 69.27W 101–3 5.5L
MOS II 28 20 45 42.9–1.2 20.11S 68.85W 106 5.2b
GCMT II 28 20 45 43.0–.20 20.52S 69.44W 126–1 5.3W
IDC II 28 20 45 43.2–.33 20.35S 69.01W 107–2 5.0,4.7
BJI II 28 20 45 43.7 20.40S 69.00W 99 5.3b,4.7
NEIC II 28 20 45 43.0–.16 20.39S 68.90W 104 5.2W,5.2b
SCB II 28 20 45 56.0–.94 19.27S 69.21W 97 4.3L,5.2b

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.4km az=153.2.
GUC Error ellipse: s-maj=1.3km s-min=3.4km az=-1.0.
MOS Error ellipse: s-maj=16.2km s-min=7.8km az=118.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c117; s108,c168; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.40±.02 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$0.50±.03; $M_{r\theta}$0.16±.01; $M_{\theta\phi}$0.03±.02; $M_{\phi r}$-0.90±.02; Best double couple: NP1:ϕ_s351.00000°,δ77.00000°,λ-97.00000°. NP2:ϕ_s201.00000°,δ15.00000°,λ-61.00000°. Principal axes: T 1.0640,Plg32.0000°,Azm87.0000°; N -0.0860,Plg7.0000°,Azm352.0000°; P -0.9780,Plg57.0000°,Azm251.0000° $M_0$1.02100×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=8.2km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.1km az=55.0. Felt [V] at Alto Hospicio, Iquique, Pica and Pozo Almonte; [IV] at Camina, Huara, La Tirana and Mamina; [III] at Cuya, Pisagua and Tocopilla. Also felt at Antofagasta. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.91 $M_{\theta\theta}$-0.29 $M_{\phi\phi}$6.19 $M_{r\theta}$1.37 $M_{\theta\phi}$0.74 $M_{\phi r}$-5.77 Best double couple: NP1:ϕ_s200.00000°,δ25.00000°,λ-65.00000°. NP2:ϕ_s353.00000°,δ67.00000°,λ-101.00000°. Principal axes: T 8.5000,Plg22.0000°,Azm91.0000°; N 0.0000,Plg10.0000°,Azm357.0000°; P -8.5100,Plg66.0000°,Azm243.0000° $M_0$8.50000×10^{16}
SCB Event type ke. Error ellipse: s-maj=51.1km s-min=21.6km az=104.0.
GUC III 01 01 51 46.0–.36 19.94S 69.25W 102–3 3.4L ¶601516731
GUC Error ellipse: s-maj=1.0km s-min=3.7km az=-1.0.
GUC III 02 00 56 07.4–.61 20.32S 69.04W 104–6 3.6L ¶601516745
GUC Error ellipse: s-maj=1.7km s-min=6.6km az=-1.0.
GUC III 04 20 56 02.7–.60 22.62S 69.52W 71–3 3.7L ¶601516757
GUC Error ellipse: s-maj=1.8km s-min=3.1km az=-1.0.
ISC III 05 00 32 59.4–.72 19.57S–.05 69.29W–.09 105–6 3.8b 24 0-152
ISCJB III 05 00 32 59.0–.54 19.60S–.04 69.37W–.10 116–5 3.8b **¶17193254**
GUC III 05 00 32 59.7–.54 19.54S 69.30W 99–3 3.9L
IDC III 05 00 33 01.3–2.7 19.57S 68.87W 117–22 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=7.0km az=7.3.
GUC Error ellipse: s-maj=1.5km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=35.0km s-min=23.0km az=104.0.
ISC III 05 09 38 49.8–.30 20.24S–.03 69.16W–.05 100–2 4.7b 592 1-178
ISCJB III 05 09 38 47.5–.36 20.13S–.03 68.99W–.04 93–3 4.7b **¶16196152**
MOS III 05 09 38 48.9–1.1 20.28S 69.22W 98 5.0b
GUC III 05 09 38 49.9–.48 20.24S 69.33W 102–3 4.8L
BJI III 05 09 38 49.3 20.87S 68.26W 102 5.4b
GCMT III 05 09 38 50.0–.40 20.03S 69.39W 121–3 5.1W
IDC III 05 09 38 50.1–.38 20.14S 69.10W 105–2 4.8,4.5
NEIC III 05 09 38 50.1–.19 20.20S 69.01W 101 5.0b,4.8W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=161.5.
MOS Error ellipse: s-maj=15.4km s-min=7.2km az=115.9.
GUC Error ellipse: s-maj=1.1km s-min=4.0km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c28; s66,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.50±.14 $M_{\theta\theta}$-0.75±.19; $M_{\phi\phi}$4.25±.27; $M_{r\theta}$0.32±.10; $M_{\theta\phi}$-2.53±.20; $M_{\phi r}$-1.79±.18; Best double couple: NP1:ϕ_s347.00000°,δ57.00000°,λ-78.00000°. NP2:ϕ_s145.00000°,δ35.00000°,λ-108.00000°. Principal axes: T 5.6520,Plg11.0000°,Azm68.0000°; N -1.7360,Plg10.0000°,Azm160.0000°; P -3.9150,Plg75.0000°,Azm292.0000° $M_0$4.78400×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=54.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=65.0. Felt [V] at Alto Hospicio; [IV] at Camina, Iquique, Mamina and Pica; [II] at Cuya and Pisagua. Also felt at Arica. Felt at Arequipa, Peru. Moment Tensor Solution. s8 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.64 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$1.85 $M_{r\theta}$0.60 $M_{\theta\phi}$0.05 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s200.00000°,δ40.00000°,λ-60.00000°. NP2:ϕ_s343.00000°,δ56.00000°,λ-113.00000°. Principal axes: T 1.9300,Plg9.0000°,Azm89.0000°; N 0.0000,Plg19.0000°,Azm356.0000°; P -1.9200,Plg69.0000°,Azm202.0000° $M_0$1.90000×10^{16}
ISC III 05 14 37 28.7–.79 21.69S–.04 69.56W–.06 56–7 3.9b 21 0-146
GUC III 05 14 37 28.9–.33 21.69S 69.62W 52–1 4.0L **¶17193286**
ISCJB III 05 14 37 28.3–.56 21.69S–.04 69.55W–.07 64–5 3.8b
IDC III 05 14 37 32.4–3.5 21.78S 69.12W 79–28 3.8,3.6
ISC Event type ke.
GUC Error ellipse: s-maj=0.7km s-min=1.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.5km az=174.9.
IDC Error ellipse: s-maj=36.0km s-min=29.9km az=107.0.
ISC III 06 12 31 58.5–.23 18.21S–.02 69.50W–.03 114–1 6.0b 2237 0-179
CASC III 06 12 31 50.6–4.2 20.41S 68.07W 260–604 6.0b **¶16196722**
NEIC III 06 12 31 56.0–.00 18.11S 69.38W 87 6.0b
BJI III 06 12 31 56.6 18.00S 69.30W 89 5.9s,5.8
GUC III 06 12 31 57.3–.35 18.31S 69.44W 112–2 6.2L,6.1W
ISCJB III 06 12 31 58.1–.11 17.95S–.02 69.46W–.02 116 6.0b,6.1W
SCB III 06 12 31 59.2–.24 17.92S 69.61W 100 5.2L,6.1W
NEIC III 06 12 31 59.8–.10 18.02S 69.36W 118 6.3W,6.3W
GCMT III 06 12 31 59.7–.10 18.28S 69.73W 126–0 6.3W,6.3W
IDC III 06 12 31 59.5–.27 18.02S 69.44W 116–2 6.0,5.7
MOS III 06 12 32 00.5–1.0 18.06S 69.48W 140 5.9b,5.6s
NEIC III 06 12 32 10.6–.00 17.72S 69.24W 92 5.9b,5.6s
ISC Event type fe.
CASC Error ellipse: s-maj=302.3km s-min=124.4km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.20 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$1.70 $M_{r\theta}$1.20 $M_{\theta\phi}$-0.20 $M_{\phi r}$-1.90 Best double couple: NP1:ϕ_s332.00000°,δ75.00000°,λ-107.00000°. NP2:ϕ_s203.00000°,δ23.00000°,λ-41.00000°. Principal axes: T 2.8000,Plg27.0000°,Azm75.0000°; N -0.1000,Plg16.0000°,Azm336.0000°; P -2.6000,Plg56.0000°,Azm219.0000° $M_0$3.00000×10^{18}
GUC Error ellipse: s-maj=2.3km s-min=6.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=39.8.
SCB Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=59.0. Felt [VI] at Codpa; [V] at Arica, Camina, Cuya, Huara, Poconchile and Putre; [IV] at Alto Hospicio; [III] at Iquique and Pisagua; [II] at Pica. Felt [IV] at Arequipa, Ilo and Tacna and [II] at Torata and Mollendo, Peru. Also felt at Moquegua and Puno. Felt [II] at La Paz, Bolivia. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$4.00000×10^{18} Moment Tensor Solution. s8 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.22 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$1.76 $M_{r\theta}$0.88 $M_{\theta\phi}$0.42 $M_{\phi r}$-1.32 Best double couple: NP1: ϕ_s220.00000°,δ35.00000°,λ-35.00000°. NP2:ϕ_s340.00000°,δ71.00000°,λ-120.00000°. Principal axes: T 2.2600,Plg20.0000°,Azm92.0000°; N 0.0000,Plg28.0000°,Azm350.0000°; P -2.2700,Plg54.0000°,Azm213.0000° $M_0$2.30000×10^{18} Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.26 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$0.31 $M_{r\theta}$0.29 $M_{\theta\phi}$0.22 $M_{\phi r}$-2.45 Best double couple: NP1:ϕ_s354.00000°,δ87.00000°,λ-96.00000°. NP2:ϕ_s237.00000°,δ7.00000°,λ-27.00000°. Principal axes: T 2.4900,Plg42.0000°,Azm89.0000°; N 0.0100,Plg6.0000°,Azm354.0000°; P -2.5000,Plg48.0000°,Azm257.0000° $M_0$2.50000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ11.00000°,λ-27.00000°. NP2:ϕ_s355.00000°,δ85.00000°,λ-100.00000°. Principal axes: T Plg39.0000°,Azm94.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000°,Azm254.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c330; s141,c471;Duration: 3s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.44±.02 $M_{\theta\theta}$-0.58±.02; $M_{\phi\phi}$2.02±.02; $M_{r\theta}$1.30±.01; $M_{\theta\phi}$0.10±.02; $M_{\phi r}$-2.12±.02; Best double couple: NP1: ϕ_s335.00000°,δ75.00000°,λ-111.00000°. NP2:ϕ_s210.00000°,δ26.00000°,λ-37.00000°. Principal axes: T 3.0910,Plg27.0000°,Azm81.0000°; N -0.0370,Plg20.0000°,Azm340.0000°; P -3.0530,Plg55.0000°,Azm218.0000° $M_0$3.07200×10^{18}
IDC Error ellipse: s-maj=8.6km s-min=7.1km az=90.0.
MOS Error ellipse: s-maj=11.6km s-min=5.7km az=108.4.
NEIC Event type se. Moment Tensor Solution. s37 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.75 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$2.26 $M_{r\theta}$0.90 $M_{\theta\phi}$0.21 $M_{\phi r}$-1.94 Best double couple: NP1:ϕ_s209.00000°,δ28.00000°,λ-47.00000°. NP2:ϕ_s342.00000°,δ70.00000°,λ-110.00000°. Principal axes: T 3.0500,Plg22.0000°,Azm88.0000°; N -0.1700,Plg19.0000°,Azm350.0000°; P -2.8900,Plg60.0000°,Azm224.0000° $M_0$3.00000×10^{18}
GUC III 07 07 11 28.5–.50 20.83S 69.27W 111–4 3.5L ¶601516778
GUC Error ellipse: s-maj=1.7km s-min=7.3km az=-1.0.
ISC III 07 14 41 45.6–.74 20.21S–.04 69.37W–.07 86–6 3.7b 27 0-152
ISCJB III 07 14 41 45.1–.50 20.17S–.04 69.36W–.07 93–4 3.6b **¶17193419**
GUC III 07 14 41 46.7–.36 20.22S 69.43W 78–1 3.7L
IDC III 07 14 41 50.5–2.7 20.13S 68.93W 126–23 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=7.0km az=5.1.
GUC Error ellipse: s-maj=0.7km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=21.3km az=76.0.
ISC III 08 16 12 57.8–1.0 22.77S–.07 69.1W–.10 107–12 18 0-78
ISCJB III 08 16 12 57.1–.72 22.77S–.06 69.1W–.10 113–10 3.7b **¶17193478**
GUC III 08 16 12 58.4–.35 22.71S 69.13W 104–2 3.9L
IDC III 08 16 12 59.1–3.7 22.73S 69.03W 121–42 3.7,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=8.1km az=15.3.
GUC Error ellipse: s-maj=1.3km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=69.2km s-min=31.4km az=111.0.
GUC III 09 01 50 52.7–.61 22.93S 68.81W 102–6 3.5L ¶601516802
GUC Error ellipse: s-maj=2.0km s-min=5.9km az=-1.0.
GUC III 09 06 43 53.0–.67 19.91S 69.25W 119–5 3.6L ¶601516809
GUC Error ellipse: s-maj=2.1km s-min=6.5km az=-1.0.
GUC III 09 11 05 04.4–.73 20.83S 69.19W 109–5 3.6L ¶601516814
GUC Error ellipse: s-maj=2.9km s-min=7.3km az=-1.0.
ISC III 09 13 24 07.7–.28 27.57S–.03 69.16W–.04 113–2 5.0b 809 1-176
MOS III 09 13 24 02.8–1.1 27.47S 69.06W 74 5.3b **¶16295222**
ISCJB III 09 13 24 04.8–.35 27.42S–.03 68.97W–.03 95–3 4.9b
GCMT III 09 13 24 06.0–.30 27.53S 69.29W 115–3 5.2W
NEIC III 09 13 24 06.0 27.54S 69.09W 101 5.0,5.0b
BJI III 09 13 24 07.9 27.50S 68.90W 108 5.1b,5.0b
IDC III 09 13 24 07.9–.39 27.47S 68.94W 112–3 4.7,4.5
SJA III 09 13 24 08.7–.73 27.66S 68.82W 151–19 4.8W,4.5L
GUC III 09 13 24 08.5–.59 27.67S 69.53W 125–9 5.2L,4.5L
ISC Event type fe.
MOS Error ellipse: s-maj=13.9km s-min=6.9km az=108.3.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=144.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c33; s79,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.34±.24 $M_{\theta\theta}$-0.39±.26; $M_{\phi\phi}$5.73±.33; $M_{r\theta}$-1.67±.18; $M_{\theta\phi}$0.03±.28; $M_{\phi r}$3.69±.27; Best double couple: NP1:ϕ_s166.00000°,δ63.00000°,λ-104.00000°. NP2:ϕ_s15.00000°,δ30.00000°,λ-65.00000°. Principal axes: T 6.8760,Plg17.0000°,Azm266.0000°; N -0.0210,Plg12.0000°,Azm172.0000°; P -6.8580,Plg69.0000°,Azm49.0000° $M_0$6.86700×10^{16}
NEIC Event type fe. Felt [IV] at Copiapo and Tierra Amarilla; [III] at Diego de Almagro; [II] at Alto del Carmen, Caldera, Chanaral and Vallenar. Felt [III] in the Villa Union area, Argentina. After SJA.
IDC Error ellipse: s-maj=15.2km s-min=10.1km az=81.0.
SJA Error ellipse: s-maj=5.5km s-min=11.5km az=-1.0.
GUC Error ellipse: s-maj=2.8km s-min=10.7km az=-1.0.
ISC III 10 10 36 46.6–1.1 18.61S–.06 69.4W–.10 128–10 16 0-77
ISCJB III 10 10 36 46.0–.79 18.63S–.05 69.4W–.10 135–8 3.3b **¶601516824**
GUC III 10 10 36 46.8–.55 18.64S 69.25W 113–4 3.4L
IDC III 10 10 36 54.5–8.2 14.14S 68.37W 92–52 3.9L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=8.6km az=8.7.
GUC Error ellipse: s-maj=2.2km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=116.6km s-min=36.2km az=134.0.
GUC III 11 20 01 37.5–.41 22.45S 68.73W 106–4 3.6L ¶601516835
GUC Error ellipse: s-maj=2.0km s-min=3.9km az=-1.0.
GUC III 12 01 58 11.4–.75 23.12S 69.15W 94–6 3.8L ¶601516837
GUC Error ellipse: s-maj=2.5km s-min=6.6km az=-1.0.
GUC III 15 10 19 56.3–.30 20.99S 69.75W 62–2 3.6L ¶601516868
GUC Error ellipse: s-maj=0.7km s-min=3.6km az=-1.0.
GUC III 17 12 23 00.4–.75 18.28S 69.66W 124–4 3.6L ¶601516894
GUC Error ellipse: s-maj=5.0km s-min=11.0km az=-1.0.
ISC III 18 07 18 32.0–1.0 21.33S–.04 70.0W–.20 59–9 3.6b 15 0-146
IDC III 18 07 18 21.7–2.3 22.03S 70.05W 0 3.9,3.8 **¶17196956**
ISCJB III 18 07 18 31.7–.59 21.32S–.04 69.9W–.20 66–8 3.5b,3.8
GUC III 18 07 18 31.7–.51 21.31S 69.94W 54–4 3.9L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=62.0km s-min=44.6km az=16.0.
ISCJB Event type ke. Error ellipse: s-maj=26.5km s-min=6.2km az=177.5.
GUC Error ellipse: s-maj=1.0km s-min=6.7km az=-1.0.
ISC III 18 09 11 33.3–1.2 24.44S–.05 69.71W–.07 50 19 1-9
GUC III 18 09 11 31.6–.44 24.42S 69.66W 48–2 3.8L **¶16630730**
ISCJB III 18 09 11 32.2–.50 24.44S–.03 69.68W–.06 50 3.8L
SJA III 18 09 11 41.7–1.0 25.07S 68.89W 223–54 3.1L,2.6W
ISC Event type ke.
GUC Error ellipse: s-maj=1.6km s-min=3.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.1km az=159.2.
SJA Error ellipse: s-maj=22.1km s-min=30.4km az=-1.0.
GUC III 18 18 49 16.2–.62 20.46S 69.23W 92–3 3.6L ¶601516900
GUC Error ellipse: s-maj=1.4km s-min=3.7km az=-1.0.
GUC III 18 22 13 16.0–.41 20.03S 69.18W 96–3 3.7L ¶601516901
GUC Error ellipse: s-maj=2.0km s-min=2.9km az=-1.0.
ISC III 19 08 35 01.0–.32 22.04S–.03 68.52W–.04 108–2 5.0b 957 1-174
SCB III 19 08 34 56.9–.92 22.13S 68.42W 98 4.6L **¶16338043**
ISCJB III 19 08 34 58.6–.29 21.96S–.02 68.46W–.03 100–2 5.0b
SJA III 19 08 34 59.1–1.4 22.11S 67.86W 312–33 4.3L,3.4W
MOS III 19 08 35 00.6–1.4 21.98S 68.46W 111 5.1b,3.4W
GUC III 19 08 35 01.4–.61 21.98S 68.87W 117–7 5.3L,3.4W
IDC III 19 08 35 02.0–.54 21.88S 68.41W 111–4 5.1,4.8
NEIC III 19 08 35 01.0 21.98S 68.87W 117 5.2W,5.0b
BJI III 19 08 35 01.5 22.00S 68.30W 96 5.2b,5.0b
GCMT III 19 08 35 01.0–.20 22.00S 68.83W 131–1 5.3W,5.0b
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=25.2km s-min=7.6km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=139.1.
SJA Error ellipse: s-maj=14.3km s-min=32.6km az=-1.0.
MOS Error ellipse: s-maj=13.4km s-min=6.8km az=109.8.
GUC Error ellipse: s-maj=2.1km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=59.0.
NEIC Event type fe. Felt [IV] at Calama, [III] at Oficina Maria Elena and [II] at Huara and Sierra Gorda. After GUC. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.55 $M_{\theta\theta}$-2.72 $M_{\phi\phi}$8.26 $M_{r\theta}$3.22 $M_{\theta\phi}$-0.15 $M_{\phi r}$-4.56 Best double couple: NP1:ϕ_s335.00000°,δ67.00000°,λ-11.00000°. NP2:ϕ_s208.00000°,δ35.00000°,λ-43.00000°. Principal axes: T 9.7300,Plg18.0000°,Azm85.0000°; N -1.2000,Plg25.0000°,Azm346.0000°; P -8.5300,Plg59.0000°,Azm206.0000° $M_0$9.20000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c114; s104,c176; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$0.94±.03; $M_{r\theta}$0.16±.01; $M_{\theta\phi}$-0.20±.02; $M_{\phi r}$-0.60±.02; Best double couple: NP1:ϕ_s347.00000°,δ62.00000°,λ-93.00000°. NP2:ϕ_s173.00000°,δ28.00000°,λ-85.00000°. Principal axes: T 1.1720,Plg17.0000°,Azm79.0000°; N -0.1280,Plg3.0000°,Azm348.0000°; P -1.0420,Plg73.0000°,Azm250.0000° $M_0$1.10700×10^{17}
ISC III 19 09 12 40.6–.39 20.23S–.03 69.18W–.06 101–3 4.5b 114 1-168
ISCJB III 19 09 12 39.6–.32 20.22S–.03 69.19W–.06 106–3 4.4b **¶16339141**
BJI III 19 09 12 40.0 20.10S 69.10W 90 5.2b
NEIC III 19 09 12 40.9–.35 20.13S 69.08W 102 4.7W,4.7b
IDC III 19 09 12 41.6–.48 20.06S 69.03W 103–3 4.6,4.3
GUC III 19 09 12 41.5–.44 20.32S 69.54W 109–3 5.0L,4.3
SCB III 19 09 12 43.5–.60 19.94S 68.77W 106 4.4L,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.7km az=6.5.

NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=6.8km az=93.0. Felt [III] at Alto Hospicio, Camina, Huara, La Tirana, Pisagua and Pozo Almonte and [II] at Pica. Also felt at Iquique. Moment Tensor Solution. s9 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.56 $M_{\theta\theta}$-0.79 $M_{\phi\phi}$1.35 $M_{r\theta}$0.66 $M_{\theta r}$-0.54 $M_{\phi r}$0.42 Best double couple: NP1:ϕ_s308.00000°,δ57.00000°,λ-156.00000°. NP2:ϕ_s205.00000°,δ70.00000°,λ-35.00000°. Principal axes: T 1.5100,Plg8.0000° ,Azm259.0000°; N 0.0000,Plg50.0000°,Azm359.0000°; P -1.5100,Plg39.0000° ,Azm163.0000° $M_0$1.50000×10^{16}

IDC Error ellipse: s-maj=14.1km s-min=11.7km az=69.0.

GUC Error ellipse: s-maj=2.3km s-min=4.5km az=-1.0.

SCB Event type ke. Error ellipse: s-maj=19.6km s-min=5.1km az=63.0.

GUC	**III**	**21 00 53 56.2–.53**	**22.19S**	**68.94W**	**118–7**	**3.5L**		
								¶601516912

GUC Error ellipse: s-maj=2.1km s-min=6.5km az=-1.0.

GUC	**III**	**21 01 30 45.3–.36**	**22.86S**	**68.83W**	**112–4**	**3.5L**		
								¶601516913

GUC Error ellipse: s-maj=2.4km s-min=4.7km az=-1.0.

ISC	**III**	**22 04 57 19.5–1.7**	**27.47S–.05**	**69.88W–.06**	**114–15**		**27**	**0-6**
ISCJB	III	22 04 57 19.4–.77	27.51S–.04	69.85W–.06	110–10			**¶16630900**
GUC	III	22 04 57 19.7–.52	27.55S	69.68W	88–8	3.6L		
SJA	III	22 04 57 20.0–.66	27.57S	69.73W	153–12	3.4L,3.0W		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.2km az=179.0.

GUC Error ellipse: s-maj=3.5km s-min=9.4km az=-1.0.

SJA Error ellipse: s-maj=3.9km s-min=6.4km az=-1.0.

ISC	**III**	**23 15 31 10.2–.89**	**18.46S–.05**	**69.90W–.09**	**97–7**	**4.0b**	**20**	**0-151**
ISCJB	III	23 15 31 08.8–.77	18.43S–.05	70.04W–.10	109–5	4.0b		**¶17198216**
GUC	III	23 15 31 10.9–.43	18.46S	69.89W	88–3	3.7L		
IDC	III	23 15 31 17.4–4.9	18.20S	69.48W	146–30	4.3,3.9		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=8.0km az=15.2.

GUC Error ellipse: s-maj=2.0km s-min=2.4km az=-1.0.

IDC Error ellipse: s-maj=52.7km s-min=24.8km az=29.0.

GUC	**III**	**24 15 59 56.4–.54**	**22.18S**	**68.76W**	**119–4**	**3.3L**		
								¶601516942

GUC Error ellipse: s-maj=2.2km s-min=4.6km az=-1.0.

GUC	**III**	**24 22 19 23.1–.48**	**21.29S**	**69.84W**	**53–2**	**3.9L**		
								¶601516946

GUC Error ellipse: s-maj=0.9km s-min=1.8km az=-1.0.

ISC	**III**	**28 10 52 37.7–1.6**	**23.6S–.10**	**68.22W–.09**	**98–13**	**3.5b**	**20**	**2-147**
ISCJB	III	28 10 52 37.7–1.3	23.54S–.10	68.29W–.10	110–11	3.4b		**¶17198936**
GUC	III	28 10 52 39.6–.58	23.36S	68.60W	142–9	3.9L		
IDC	III	28 10 52 46.0–9.5	23.07S	68.01W	157–65	3.8,3.5		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=12.5km az=138.2.

GUC Error ellipse: s-maj=4.4km s-min=8.0km az=-1.0.

IDC Error ellipse: s-maj=95.2km s-min=21.4km az=17.0.

ISC	**III**	**29 11 49 34.9–.65**	**20.06S–.03**	**69.99W–.06**	**61–6**	**4.7b**	**423**	**0-166**
IDC	III	29 11 49 27.4–.80	19.94S	70.11W	0	4.7L,4.6		**¶16392140**
ISCJB	III	29 11 49 34.0–.28	20.03S–.02	69.86W–.05	70–3	4.6b,4.6		
NEIC	III	29 11 49 34.0	20.10S	69.95W	61	4.8b,4.6		
GUC	III	29 11 49 34.8–.56	20.10S	69.96W	61–3	4.8L,4.6		
SCB	III	29 11 49 39.7–.66	19.83S	69.42W	95	4.2L,4.6		

ISC Event type fe.

IDC Error ellipse: s-maj=25.3km s-min=19.5km az=33.0.

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.7km az=177.6.

NEIC Event type fe. Felt [IV] at Alto Hospicio, Huara, Iquique and Mamina; [III] at Camina, La Tirana, Pica, Pozo Almonte and Quillagua; [II] at Arica, Cuya and Pisagua. After GUC.

GUC Error ellipse: s-maj=1.5km s-min=6.0km az=-1.0.

SCB Event type ke. Error ellipse: s-maj=19.4km s-min=5.4km az=70.0.

ISC	**III**	**30 09 14 39.3–.78**	**19.12S–.04**	**69.48W–.09**	**100–7**	**3.9b**	**26**	**0-89**
ISCJB	III	30 09 14 38.7–.46	19.12S–.04	69.50W–.08	109–4	3.8b		**¶17199185**
GUC	III	30 09 14 38.9–.45	19.13S	69.52W	102–2	3.5L		
IDC	III	30 09 14 44.8–5.1	18.84S	69.16W	138–34	4.1,3.8		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.7km az=8.9.

GUC Error ellipse: s-maj=1.4km s-min=4.4km az=-1.0.

IDC Error ellipse: s-maj=52.7km s-min=21.6km az=29.0.

ISC	**III**	**30 12 55 33.5–.96**	**20.66S–.04**	**69.2W–.10**	**110–9**		**21**	**0-145**
GUC	III	30 12 55 32.7–.73	20.63S	69.15W	105–5	3.8L		**¶17199202**
ISCJB	III	30 12 55 33.0–.65	20.66S–.04	69.2W–.10	115–7	3.4b		
IDC	III	30 12 55 47.0–7.6	19.64S	68.41W	192–50	3.5,3.3		

ISC Event type ke.

GUC Error ellipse: s-maj=2.1km s-min=5.8km az=-1.0.

ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=5.8km az=174.9.

IDC Error ellipse: s-maj=88.3km s-min=47.5km az=27.0.

ISC	**IV**	**02 10 59 39.1–.23**	**19.67S–.03**	**69.22W–.03**	**102–1**	**5.8b**	**1602**	**0-179**
ISCJB	IV	02 10 59 36.4–.29	19.50S–.02	69.13W–.03	89–2	5.8b		**¶602546014**
NEIC	IV	02 10 59 37.0–.00	19.56S	69.07W	83	5.8b		
GCMT	IV	02 10 59 37.4–.10	19.75S	69.51W	118–0	5.9W		
GUC	IV	02 10 59 38.7–.47	19.68S	69.36W	100–3	5.6L		
BJI	IV	02 10 59 39.7	19.60S	69.20W	90	5.8b,5.6s		
MOS	IV	02 10 59 39.5–1.3	19.40S	69.21W	105	6.0b,5.6s		
IDC	IV	02 10 59 40.1–.33	19.58S	69.13W	105–2	5.5,5.3		
NEIC	IV	02 10 59 40.4–.12	19.54S	69.01W	110	5.9W,5.9W		
SCB	IV	02 10 59 42.2–.58	19.41S	68.76W	100	4.8L,5.9W		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=144.5.

NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.85 $M_{\theta\theta}$-0.91 $M_{\phi\phi}$4.76 $M_{r\theta}$1.40 $M_{\theta\phi}$0.39 $M_{\phi r}$-6.33 Best double couple: NP1:ϕ_s350.00000° ,δ74.00000°,λ-100.00000°. NP2:ϕ_s202.00000°,δ19.00000°,λ-58.00000°. Principal axes: T 8.1200,Plg28.0000°,Azm87.0000°; N -0.6100,Plg9.0000°,Azm352.0000° ; P -7.5100,Plg59.0000°,Azm245.0000° $M_0$7.80000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s131,c281; s134,c345;Duration: 2s^1 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.32±.06 $M_{\theta\theta}$-0.59±.07; $M_{\phi\phi}$3.91±.08; $M_{r\theta}$1.59±.04; $M_{\theta\phi}$2.04±.07; $M_{\phi r}$-6.27±.06; Best double couple: NP1: ϕ_s352.00000°,δ76.00000°,λ-110.00000°. NP2:ϕ_s230.00000°,δ24.00000°,λ-35.00000°. Principal axes: T 7.6530,Plg29.0000°,Azm98.0000°; N 0.0950,Plg20.0000°,Azm357.0000° ; P -7.7520,Plg54.0000°,Azm237.0000° $M_0$7.70200×10^{17}

GUC Error ellipse: s-maj=1.3km s-min=2.7km az=-1.0.

MOS Error ellipse: s-maj=10.9km s-min=5.2km az=110.5.

IDC Error ellipse: s-maj=9.4km s-min=7.5km az=56.0.

NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=58.0. Felt [VI] at Mamina, Pica and Pozo Almonte; [V] at Alto Hospicio, Codpa, Cuya, Huara and Iquique; [IV] at La Tirana, Pisagua and Poconchile; [III] at Arica and Putre. Also felt at Calama. Felt [III] at Moquegua and Tacna and [II] at Arequipa, Peru. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.80 $M_{\theta\theta}$-1.45 $M_{\phi\phi}$4.25 $M_{r\theta}$0.02 $M_{\theta\phi}$2.44 $M_{\phi r}$-8.23 Best double couple: NP1:ϕ_s359.00000°,δ79.00000°,λ-10.00000°. NP2:ϕ_s234.00000° ,δ19.00000°,λ-37.00000°. Principal axes: T 10.0000,Plg32.0000°,Azm102.0000° ; N -1.5000,Plg15.0000°,Azm2.0000°; P -8.5000,Plg54.0000°,Azm251.0000° $M_0$9.40000×10^{17} Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.86 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$1.97 $M_{r\theta}$-1.43 $M_{\theta\phi}$1.87 $M_{\phi r}$-7.43 Best double couple: NP1:ϕ_s11.00000° ,δ82.00000°,λ-100.00000°. NP2:ϕ_s241.00000°,δ13.00000°,λ-41.00000°. Principal axes: T 8.3800,Plg36.0000°,Azm109.0000°; N -0.7600,Plg10.0000°,Azm12.0000° ; P -7.6200,Plg52.0000°,Azm270.0000° $M_0$8.00000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ10.00000°,λ-90.00000°. NP2: ϕ_s10.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm100.0000° ; N Plg0.0000°,Azm0.0000°; P Plg55.0000°,Azm280.0000°

SCB Event type ke. Error ellipse: s-maj=19.3km s-min=4.6km az=63.0.

ISC	**IV**	**03 05 03 14.9–.92**	**19.68S–.06**	**69.4W–.10**	**107–10**		**15**	**1-89**
ISCJB	IV	03 05 03 14.5–.64	19.73S–.05	69.4W–.10	117–8	3.3b		**¶601517018**
GUC	IV	03 05 03 15.0–.49	19.68S	69.38W	100–6	3.9L		
IDC	IV	03 05 03 41.0–1.8	16.31S	67.86W	222–18	3.6,3.1		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=22.1km s-min=8.2km az=5.7.

GUC Error ellipse: s-maj=1.4km s-min=5.3km az=-1.0.

IDC Error ellipse: s-maj=141.2km s-min=24.0km az=13.0.

GUC	**IV**	**03 14 04 50.6–.51**	**22.99S**	**69.27W**	**88–3**	**4.0L**		
								¶601517020

GUC Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.

ISC	**IV**	**03 16 11 34.9–.98**	**20.18S–.06**	**69.21W–.10**	**104**		**13**	**1-127**
IDC	IV	03 16 11 18.7–2.7	21.11S	69.66W	0	3.8,3.6		**¶17199667**
ISCJB	IV	03 16 11 34.8–.78	20.20S–.05	69.28W–.10	104	3.4b,3.6		
GUC	IV	03 16 11 34.5–.48	20.20S	69.23W	102–6	3.5L,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=61.8km s-min=51.0km az=170.0.

ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.5km az=9.1.

GUC Error ellipse: s-maj=2.1km s-min=5.3km az=-1.0.

ISC	**IV**	**04 10 56 14.2–1.4**	**22.51S–.07**	**68.2W–.20**	**167–14**		**21**	**1-92**
ISCJB	IV	04 10 56 13.6–1.0	22.52S–.06	68.2W–.20	173–12	3.5b		**¶17199762**
GUC	IV	04 10 56 13.2–.53	22.51S	68.18W	167–6	3.9L		
IDC	IV	04 10 56 15.0–3.3	22.49S	68.04W	169–32	3.8,3.5		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=26.3km s-min=9.2km az=4.6.

GUC Error ellipse: s-maj=2.9km s-min=6.6km az=-1.0.

IDC Error ellipse: s-maj=50.5km s-min=29.3km az=95.0.

GUC	**IV**	**04 16 32 31.3–.35**	**24.04S**	**69.43W**	**68–11**	**3.5L**		
								¶601517028

GUC Error ellipse: s-maj=1.6km s-min=3.9km az=-1.0.

ISC	**IV**	**05 04 18 48.6–.53**	**19.65S–.05**	**69.22W–.07**	**101–5**	**4.0b**	**47**	**0-152**
ISCJB	IV	05 04 18 46.9–.39	19.61S–.04	69.18W–.07	102–4	4.0b		**¶16506219**
IDC	IV	05 04 18 49.7–.72	19.49S	69.02W	107–4	4.3,4.0		
NEIC	IV	05 04 18 49.0	19.69S	69.38W	97	4.2b,4.0		
GUC	IV	05 04 18 49.3–.32	19.69S	69.38W	97–3	4.3L,4.0		
SCB	IV	05 04 18 54.6–.44	19.16S	68.67W	100	3.6L,4.0		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.0km az=14.7.

IDC Error ellipse: s-maj=20.6km s-min=14.5km az=30.0.

NEIC Event type se. After GUC.

GUC Error ellipse: s-maj=2.0km s-min=4.0km az=-1.0.

SCB Event type ke. Error ellipse: s-maj=15.4km s-min=4.4km az=67.0.

GUC	**IV**	**07 19 50 22.2–.36**	**22.99S**	**69.03W**	**90–3**	**3.5L**		
								¶601517051

GUC Error ellipse: s-maj=1.7km s-min=4.0km az=-1.0.

ISC	**IV**	**08 06 43 37.7–1.2**	**22.12S–.06**	**68.8W–.20**	**120–12**		**20**	**1-146**
ISCJB	IV	08 06 43 37.7–.89	22.13S–.05	68.9W–.20	127–10	4.6b		**¶17200209**
GUC	IV	08 06 43 38.2–.43	22.11S	68.66W	92–10	3.7L		
IDC	IV	08 06 43 41.0–3.3	22.01S	68.65W	141–30	3.5,3.3		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=26.7km s-min=6.7km az=10.4.

GUC Error ellipse: s-maj=1.6km s-min=6.4km az=-1.0.

IDC Error ellipse: s-maj=59.4km s-min=28.8km az=97.0.

ISC	**IV**	**09 03 15 45.3–1.0**	**20.12S–.04**	**69.2W–.10**	**101–7**		**19**	**0-90**
IDC	IV	09 03 15 26.6–2.8	21.41S	69.47W	0	3.6,3.4		**¶17200306**
ISCJB	IV	09 03 15 45.5–.79	20.13S–.04	69.3W–.10	106–6	3.2b,3.4		
GUC	IV	09 03 15 45.3–.55	20.10S	69.20W	97–3	3.3L,3.4		

ISC Event type ke.

IDC Error ellipse: s-maj=74.1km s-min=57.8km az=56.0.

ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=6.6km az=179.0.

GUC Error ellipse: s-maj=1.3km s-min=3.9km az=-1.0.

ISC	**IV**	**09 11 59 28.7–.57**	**20.55S–.04**	**69.37W–.08**	**93–5**	**4.1b**	**49**	**0-153**
ISCJB	IV	09 11 59 28.4–.35	20.61S–.03	69.33W–.08	103–4	3.9b		**¶16529587**
NEIC	IV	09 11 59 28.0	20.51S	69.67W	78	4.4b		
GUC	IV	09 11 59 28.8–.38	20.51S	69.67W	78–4	4.1L		
IDC	IV	09 11 59 29.0–.70	20.44S	69.34W	83–4	4.2,4.0		
SCB	IV	09 11 59 34.4–.77	20.09S	68.86W	100	3.8L,4.0		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=4.9km az=11.5.

NEIC Event type fe. Felt [III] at Alto Hospicio, Camina and Iquique; [II] at Huara, La Tirana, Mamina and Pozo Almonte. After GUC.

GUC Error ellipse: s-maj=1.0km s-min=4.4km az=-1.0.

IDC Error ellipse: s-maj=21.7km s-min=16.3km az=11.0.

SCB Event type ke. Error ellipse: s-maj=25.3km s-min=6.7km az=59.0.

GUC	**IV**	**10 10 38 08.3–.82**	**22.93S**	**68.78W**	**115–9**	**3.7L**		
								¶601517085

GUC Error ellipse: s-maj=3.7km s-min=9.9km az=-1.0.

GUC	**IV**	**10 21 14 33.7–.58**	**20.48S**	**69.04W**	**101–3**	**3.6L**		
								¶601517087

GUC Error ellipse: s-maj=1.6km s-min=4.2km az=-1.0.

ISC	**IV**	**12 05 33 51.4–.98**	**19.09S–.05**	**69.34W–.10**	**111–8**		**21**	**0-89**
ISCJB	IV	12 05 33 51.1–.67	19.11S–.04	69.44W–.10	121–5	3.3b		**¶601517100**
GUC	IV	12 05 33 51.0–.69	19.09S	69.37W	111–3	3.4L		
IDC	IV	12 05 34 11.5–3.5	16.63S	68.07W	204–9	3.5,3.1		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=7.1km az=176.7.

GUC Error ellipse: s-maj=1.9km s-min=4.1km az=-1.0.

IDC Error ellipse: s-maj=159.9km s-min=28.8km az=9.0.

ISC	**IV**	**12 21 57 14.2–.51**	**22.75S–.04**	**69.43W–.05**	**79–4**	**3.8b**	**55**	**0-149**
ISCJB	IV	12 21 57 14.2–.34	22.73S–.03	69.45W–.05	90–3	4.0b		**¶16437935**
IDC	IV	12 21 57 14.5–.69	22.78S	69.28W	79–5	4.0,3.9		
NEIC	IV	12 21 57 16.0	22.70S	69.48W	73	4.4b,3.9		
GUC	IV	12 21 57 16.0–.68	22.70S	69.48W	73–5	4.4L,3.9		
SJA	IV	12 21 57 20.1–.56	23.00S	68.99W	178–44	3.4W,3.0L		

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.0km az=162.5.

IDC Error ellipse: s-maj=20.5km s-min=17.2km az=35.0.

NEIC Event type fe. Felt [III] at Sierra Gorda and Tocopilla; [II] at Quillagua. After GUC.

GUC Error ellipse: s-maj=3.6km s-min=4.3km az=-1.0.

SJA Error ellipse: s-maj=6.3km s-min=15.4km az=-1.0.

GUC	**IV**	**13 11 27 16.0–.61**	**23.15S**	**69.38W**	**80–4**	**3.7L**		
								¶601517111

GUC Error ellipse: s-maj=2.2km s-min=4.6km az=-1.0.

ISC	**IV**	**14 23 12 42.7–1.2**	**20.43S–.04**	**69.25W–.08**	**97–9**		**22**	**0-90**
ISCJB	IV	14 23 12 42.1–.81	20.42S–.04	69.24W–.09	105–7	3.4b		**¶17201073**
GUC	IV	14 23 12 42.5–.48	20.41S	69.21W	93–2	4.0L		
IDC	IV	14 23 13 00.9–7.2	18.50S	69.28W	250–42	3.4,3.1		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=5.8km az=174.3.

GUC Error ellipse: s-maj=1.2km s-min=2.5km az=-1.0.

IDC Error ellipse: s-maj=107.8km s-min=52.7km az=19.0.

GUC	**IV**	**15 01 06 52.6–.42**	**21.09S**	**69.13W**	**107–3**	**2.9L**		
								¶601517131

GUC Error ellipse: s-maj=1.9km s-min=3.3km az=-1.0.

ISC	**IV**	**15 22 37 05.4–2.4**	**27.54S–.08**	**69.48W–.07**	**119–22**		**21**	**1-5**
ISCJB	IV	15 22 37 05.5–1.0	27.58S–.06	69.48W–.08	114–13			**¶16648804**
GUC	IV	15 22 37 05.9–.48	27.58S	69.39W	105–10	3.3L		
SJA	IV	15 22 37 08.4–.63	27.84S	69.09W	154–10	3.1W,3.0L		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.2km az=149.0.

GUC Error ellipse: s-maj=2.4km s-min=8.1km az=-1.0.

SJA Error ellipse: s-maj=9.8km s-min=13.4km az=-1.0.

ISC	**IV**	**16 04 49 23.4–1.5**	**22.59S–.08**	**68.8W–.20**	**112–17**		**15**	**1-146**
IDC	IV	16 04 49 07.6–4.5	23.57S	68.54W	0	3.9b,3.7		**¶17201192**
GUC	IV	16 04 49 22.4–.38	22.58S	68.72W	109–4	3.6L,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=136.9km s-min=55.8km az=70.0.

GUC Error ellipse: s-maj=1.5km s-min=4.5km az=-1.0.

GUC	**IV**	**17 18 40 43.1–.63**	**20.20S**	**69.73W**	**68–3**	**3.8L**		
								¶601517167

GUC Error ellipse: s-maj=1.2km s-min=2.5km az=-1.0.

GUC	**IV**	**19 05 38 45.4–.44**	**20.23S**	**69.08W**	**98–2**	**3.5L**		
								¶601517177

GUC Error ellipse: s-maj=1.5km s-min=3.0km az=-1.0.

ISC	**IV**	**19 06 11 26.6–.93**	**23.3S–.10**	**68.9W–.10**	**94**	**3.6b**	**12**	**7-147**
ISCJB	IV	19 06 11 25.0–.89	23.26S–.09	69.0W–.10	94	3.6b		**¶17201474**
IDC	IV	19 06 11 26.6–1.1	23.25S	68.96W	92–6	3.7,3.6		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=13.2km az=177.7.

IDC Error ellipse: s-maj=30.1km s-min=22.0km az=36.0.

ISC	**IV**	**20 12 46 58.5–.71**	**22.70S–.05**	**69.04W–.06**	**96–6**		**34**	**0-147**
SJA	IV	20 12 46 56.4–.37	22.63S	68.98W	207–30	3.9W,2.9L		**¶16649054**

ISCJB IV 20 12 46 57.1–.45 22.69S–.04 69.05W–.05 107–7 3.6b,2.9L
GUC IV 20 12 46 57.1–.86 22.64S 69.01W 100–7 4.2L,2.9L
IDC IV 20 12 46 59.1–1.0 22.69S 68.67W 95–7 3.8,3.6
ISC Event type ke.
SJA Error ellipse: s-maj=7.6km s-min=6.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.4km az=9.1.
GUC Error ellipse: s-maj=3.7km s-min=10.0km az=-1.0.
IDC Error ellipse: s-maj=31.8km s-min=25.7km az=99.0.
GUC IV 24 05 17 41.2–.63 22.98S 69.26W 77–4 3.5L
¶601517198
GUC Error ellipse: s-maj=3.6km s-min=6.0km az=-1.0.
ISC IV 25 19 20 07.8–1.1 22.19S–.06 68.6W–.10 115–9 3.9b 22 0-168
NEIC IV 25 19 20 06.6–1.0 22.46S 68.31W 109–9 4.5b **¶16596748**
GUC IV 25 19 20 06.9–.36 22.14S 68.67W 124–3 3.5L
ISCJB IV 25 19 20 07.1–.88 22.17S–.05 68.6W–.10 120–8 4.1b
IDC IV 25 19 20 09.7–6.4 22.11S 68.30W 128–49 4.2,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=38.7km s-min=11.7km az=101.0.
GUC Error ellipse: s-maj=1.5km s-min=4.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=19.9km s-min=8.9km az=2.7.
IDC Error ellipse: s-maj=49.6km s-min=42.8km az=21.0.
GUC IV 26 11 20 43.2–.44 27.01S 69.67W 102–6 3.5L
¶601517227
GUC Error ellipse: s-maj=2.7km s-min=7.0km az=-1.0.
GUC IV 27 04 24 06.7–.49 23.61S 69.47W 60 3.7L
¶601517236
GUC Error ellipse: s-maj=1.8km s-min=3.3km az=-1.0.
GUC IV 28 14 12 51.3–.59 20.56S 69.30W 81–3 3.7L
¶601517248
GUC Error ellipse: s-maj=1.2km s-min=3.6km az=-1.0.
GUC IV 29 04 45 45.0–.42 24.59S 69.03W 60 3.6L
¶601517256
GUC Error ellipse: s-maj=2.8km s-min=3.1km az=-1.0.
ISC IV 29 06 13 54.8–.99 20.87S–.04 69.27W–.09 93–8 24 0-77
GUC IV 29 06 13 52.2–.55 20.85S 69.22W 106–3 3.7L **¶17202351**
ISCJB IV 29 06 13 53.7–.62 20.86S–.03 69.26W–.09 98–6 3.2b
IDC IV 29 06 13 54.5–2.0 20.84S 69.25W 79–22 3.3,3.3
ISC Event type ke.
GUC Error ellipse: s-maj=1.7km s-min=4.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=5.2km az=171.6.
IDC Error ellipse: s-maj=45.5km s-min=18.2km az=84.0.
ISC V 02 05 54 43.6–1.8 24.03S–.09 69.1W–.10 92–18 16 1-148
IDC V 02 05 54 24.6–4.2 25.24S 69.46W 0 4.1b,3.8 **¶17202583**
ISCJB V 02 05 54 41.7–1.2 24.09S–.08 69.0W–.20 103–18 3.8b,3.8
GUC V 02 05 54 43.1–.36 24.08S 68.95W 47–7 3.7L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=131.2km s-min=59.2km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=28.5km s-min=9.5km az=22.2.
GUC Error ellipse: s-maj=2.5km s-min=4.0km az=-1.0.
ISC V 03 17 39 56.9–1.2 24.81S–.10 69.28W–.09 101 16 1-148
ISCJB V 03 17 39 55.8–1.3 24.84S–.09 69.23W–.08 101 3.5b **¶17202699**
GUC V 03 17 39 57.4–.56 24.78S 69.19W 65–30 3.4L
IDC V 03 17 39 57.7–2.5 24.79S 69.16W 101–8 3.5,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=10.3km az=164.8.
GUC Error ellipse: s-maj=4.1km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=88.2km s-min=52.7km az=73.0.
GUC V 04 11 17 07.2–.42 20.86S 69.08W 107–3 3.6L
¶601517324
GUC Error ellipse: s-maj=1.8km s-min=5.1km az=-1.0.
GUC V 07 13 53 33.0–.78 23.92S 68.73W 125–16 3.9L
¶601517353
GUC Error ellipse: s-maj=5.9km s-min=10.6km az=-1.0.
GUC V 07 22 08 20.8–.74 21.04S 69.08W 116–3 3.7L
¶601517356
GUC Error ellipse: s-maj=1.4km s-min=4.7km az=-1.0.
ISC V 09 17 52 53.7–1.9 22.16S–.08 68.62W–.06 114–17 18 1-5
SJA V 09 17 52 51.3–.71 22.29S 68.69W 129–7 3.5W,2.9L **¶16988465**
ISCJB V 09 17 52 52.6–1.0 22.15S–.07 68.64W–.06 124–11 3.5W,2.9L
GUC V 09 17 52 53.8–.48 22.11S 68.66W 111–4 3.8L,2.9L
ISC Event type ke.
SJA Error ellipse: s-maj=14.4km s-min=7.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.7km az=23.7.
GUC Error ellipse: s-maj=2.3km s-min=4.7km az=-1.0.
ISC V 11 15 50 29.7–1.8 22.71S–.06 68.37W–.05 130–15 20 1-3
SJA V 11 15 50 27.5–.53 22.78S 68.40W 138–9 3.2W,2.7L **¶16988513**
GUC V 11 15 50 29.6–.41 22.61S 68.53W 143–4 3.9L,2.7L
ISC Event type ke.
SJA Error ellipse: s-maj=10.1km s-min=5.5km az=-1.0.
GUC Error ellipse: s-maj=2.0km s-min=4.4km az=-1.0.
GUC V 11 19 51 07.3–.45 22.39S 68.87W 91–2 3.5L
¶601517399
GUC Error ellipse: s-maj=1.4km s-min=2.6km az=-1.0.
GUC V 13 13 20 22.4–.61 22.89S 68.66W 130–8 3.7L
¶601517416
GUC Error ellipse: s-maj=4.1km s-min=10.7km az=-1.0.
GUC V 13 15 11 04.5–.62 20.74S 69.21W 86–4 3.8L
¶601517417
GUC Error ellipse: s-maj=1.6km s-min=5.1km az=-1.0.
GUC V 13 16 24 53.0–.63 22.18S 68.69W 119–6 3.5L
¶601517418
GUC Error ellipse: s-maj=3.1km s-min=6.3km az=-1.0.
ISC V 16 10 58 30.5–.72 22.48S–.05 68.49W–.07 117–6 4.2b 52 0-154
IDC V 16 10 58 28.8–.64 22.35S 68.21W 100–6 4.2,4.1 **¶16710009**
ISCJB V 16 10 58 30.0–.34 22.48S–.05 68.55W–.05 125–3 4.1b,4.1
GUC V 16 10 58 30.8–.47 22.44S 68.58W 115–6 4.6L,4.1
SJA V 16 10 58 30.9–.96 22.49S 68.46W 107–23 3.6W,2.8L
NEIC V 16 10 58 30.0 22.44S 68.58W 115 4.2b,2.8L
ISC Event type fe.
IDC Error ellipse: s-maj=17.0km s-min=15.0km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.8km az=43.8.
GUC Error ellipse: s-maj=2.2km s-min=5.9km az=-1.0.
SJA Error ellipse: s-maj=13.8km s-min=18.9km az=-1.0.
NEIC Event type fe. Felt [III] at Calama and [II] at Oficina Maria Elena, Sierra Gorda and Tocopilla. After GUC.
ISC V 16 22 48 19.6–.98 20.08S–.04 69.23W–.10 111–7 23 0-90
ISCJB V 16 22 48 19.9–.72 20.09S–.03 69.3W–.10 114–6 3.1b **¶17203780**
GUC V 16 22 48 20.0–.81 20.09S 69.20W 103–4 3.4L
IDC V 16 22 48 20.9–1.6 20.19S 68.79W 126–19 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=5.1km az=171.5.
GUC Error ellipse: s-maj=2.4km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=56.2km s-min=18.0km az=93.0.
GUC V 19 17 47 33.8–.43 19.84S 69.18W 96–2 3.8L
¶601517456
GUC Error ellipse: s-maj=1.0km s-min=2.8km az=-1.0.
ISC V 19 23 01 35.5–.73 22.57S–.04 68.62W–.04 121–6 4.2b 53 0-146
SCB V 19 23 01 29.8–.80 22.44S 68.60W 25 3.7L **¶16591592**
IDC V 19 23 01 34.1–.78 22.47S 68.31W 102–8 4.3,4.0
ISCJB V 19 23 01 34.6–.32 22.56S–.03 68.66W–.03 128–4 4.5b,4.0
GUC V 19 23 01 35.4–.67 22.48S 68.67W 123–7 4.5L,4.0
SJA V 19 23 01 35.5–1.1 22.52S 68.56W 111–16 3.5W,2.9L
NEIC V 19 23 01 35.0 22.48S 68.67W 123 4.2b,2.9L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=20.3km s-min=7.2km az=31.0.
IDC Error ellipse: s-maj=25.7km s-min=18.5km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=10.0.
GUC Error ellipse: s-maj=4.5km s-min=6.9km az=-1.0.
SJA Error ellipse: s-maj=15.3km s-min=13.2km az=-1.0.
NEIC Event type se. After GUC.
ISC V 21 03 02 51.9–1.2 23.24S–.08 68.7W–.10 98–10 3.5b 18 1-147
ISCJB V 21 03 02 51.2–.93 23.23S–.07 68.7W–.10 105–9 3.9b **¶17204106**
IDC V 21 03 02 51.1–2.3 23.28S 68.61W 93–12 4.0,3.7
GUC V 21 03 02 52.1–.61 23.23S 68.75W 97–9 4.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=8.3km az=29.8.
IDC Error ellipse: s-maj=43.1km s-min=36.9km az=23.0.
GUC Error ellipse: s-maj=3.1km s-min=6.1km az=-1.0.
ISC V 21 23 45 15.7–.40 19.89S–.03 69.09W–.06 111–3 4.9b 406 0-172
BJI V 21 23 45 14.6 19.80S 68.90W 93 5.1b **¶16532357**
ISCJB V 21 23 45 14.7–.27 19.84S–.02 68.99W–.04 114–2 4.8b
NEIC V 21 23 45 15.0–.46 19.82S 68.94W 99–4 5.0b
IDC V 21 23 45 16.9–.63 19.78S 68.91W 117–5 4.5,4.3
GUC V 21 23 45 16.8–.62 19.95S 69.22W 105–3 5.0L,4.3
MOS V 21 23 45 17.8–1.4 19.73S 68.91W 134 4.6b,4.3
SCB V 21 23 45 17.8–1.1 19.61S 68.65W 125 4.0L,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.8km az=170.5.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=77.0. Felt [IV] at Pica; [III] at Alto Hospicio, Iquique and Pisagua; [II] at Quillagua.
IDC Error ellipse: s-maj=15.7km s-min=11.6km az=71.0.
GUC Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
MOS Error ellipse: s-maj=18.5km s-min=7.7km az=108.7.
SCB Event type ke. Error ellipse: s-maj=46.4km s-min=6.8km az=69.0.
ISC V 22 01 41 03.3–.45 19.06S–.03 69.63W–.05 103–4 4.0b 77 1-151
SCB V 22 01 40 59.8–.49 18.97S 69.33W 10 4.0L **¶16617318**
ISCJB V 22 01 41 03.4–.29 19.11S–.03 69.66W–.05 116–2 4.1b
IDC V 22 01 41 04.2–.59 18.94S 69.31W 105–4 4.4,4.2
GUC V 22 01 41 04.2–.37 19.06S 69.50W 94–3 4.3L,4.2
NEIC V 22 01 41 04.0 19.06S 69.50W 94 4.0b,4.2
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=14.5km s-min=3.7km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=1.4.
IDC Error ellipse: s-maj=16.2km s-min=13.3km az=84.0.
GUC Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
NEIC Event type fe. Felt [III] at Codpa and [II] at Arica, Cuya, Huara and Pisagua. After GUC.
GUC V 22 01 47 30.2–.44 22.87S 68.93W 101–4 3.9L
¶601517476
GUC Error ellipse: s-maj=2.5km s-min=4.9km az=-1.0.
ISC V 22 10 09 20.4–1.2 24.39S–.04 69.73W–.05 80 17 1-7
SJA V 22 10 09 11.2–.84 24.47S 68.90W 428–35 3.0L,2.7W **¶16988869**
ISCJB V 22 10 09 19.6–.56 24.42S–.05 69.68W–.05 80 3.0L,2.7W
GUC V 22 10 09 19.6–.56 24.34S 69.52W 34–20 3.3L,2.7W
ISC Event type ke.
SJA Error ellipse: s-maj=15.9km s-min=43.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.9km az=41.5.
GUC Error ellipse: s-maj=2.6km s-min=5.5km az=-1.0.
ISC V 23 09 12 19.4–2.4 18.09S–.06 69.5W–.10 131–17 17 0-5
SCB V 23 09 12 18.8–.89 18.11S 69.23W 100 3.6L **¶601517490**
GUC V 23 09 12 19.5–.41 18.05S 69.48W 122–3 3.3L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=32.3km s-min=6.7km az=86.0.
GUC Error ellipse: s-maj=3.9km s-min=3.8km az=-1.0.
ISC V 23 09 29 51.4–.73 22.53S–.05 68.36W–.04 139–8 4.0b 49 1-146
SJA V 23 09 29 49.6–.66 22.48S 68.16W 204–31 3.9L,3.3W **¶16710703**
ISCJB V 23 09 29 50.7–.33 22.59S–.03 68.38W–.04 145–4 4.0b,3.3W
IDC V 23 09 29 51.2–.95 22.45S 68.08W 122–11 4.3,4.0
SCB V 23 09 29 51.3–1.1 22.26S 68.20W 125 3.6L,4.0
NEIC V 23 09 29 52.0 22.39S 68.50W 148 4.2,4.0
GUC V 23 09 29 52.3–.62 22.39S 68.50W 148–6 4.2L,4.0
ISC Event type ke.
SJA Error ellipse: s-maj=6.1km s-min=15.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=161.1.
IDC Error ellipse: s-maj=36.2km s-min=20.1km az=119.0.
SCB Event type ke. Error ellipse: s-maj=32.0km s-min=6.8km az=28.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.2km s-min=7.3km az=-1.0.
ISC V 27 18 57 12.3–1.0 21.10S–.04 69.07W–.06 115–8 27 0-145
ISCJB V 27 18 57 11.5–.66 21.10S–.03 69.07W–.06 122–7 3.8b **¶16989022**
GUC V 27 18 57 12.3–.40 21.08S 69.12W 112–2 4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.4km az=166.2.
GUC Error ellipse: s-maj=0.8km s-min=2.9km az=-1.0.
GUC V 28 20 56 35.7–.63 20.83S 69.20W 103–4 3.6L
¶601517534
GUC Error ellipse: s-maj=1.9km s-min=7.7km az=-1.0.
SJA V 31 09 43 25.2–.91 27.16S 69.13W 154–96 3.5W,3.5L
¶16989105
SJA Error ellipse: s-maj=13.0km s-min=37.5km az=-1.0.
GUC VI 01 04 51 15.1–.77 20.30S 69.16W 103–4 3.6L
¶601517628
GUC Error ellipse: s-maj=2.0km s-min=5.7km az=-1.0.
GUC VI 01 19 07 58.0–.64 22.58S 69.13W 94–5 3.5L
¶601517636
GUC Error ellipse: s-maj=3.1km s-min=4.9km az=-1.0.
GUC VI 01 23 46 03.8–.66 19.86S 69.18W 100–3 3.6L
¶601517638
GUC Error ellipse: s-maj=1.6km s-min=4.4km az=-1.0.
ISC VI 02 19 34 32.1–.78 22.24S–.05 68.82W–.05 117–6 4.1b 34 0-146
ISCJB VI 02 19 34 31.5–.46 22.21S–.04 68.86W–.05 126–5 3.9b **¶16856128**
SJA VI 02 19 34 31.6–12 22.72S 68.98W 120–102 2.8W,2.5L
IDC VI 02 19 34 31.8–.56 22.44S 68.70W 114–8 3.9,3.7
GUC VI 02 19 34 32.3–.92 22.19S 68.87W 118–7 4.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.9km az=144.5.
SJA Error ellipse: s-maj=205.5km s-min=129.6km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=22.3km az=37.0.
GUC Error ellipse: s-maj=3.9km s-min=8.2km az=-1.0.
GUC VI 02 19 44 36.3–.50 24.36S 69.94W 35–8 3.7L
¶601517648
GUC Error ellipse: s-maj=1.8km s-min=9.3km az=-1.0.
ISC VI 04 22 48 17.7–.60 24.89S–.04 69.43W–.06 94–5 4.2b 51 1-151
SJA VI 04 22 48 15.8–.45 24.86S 69.50W 141–36 3.1L **¶16713156**
NEIC VI 04 22 48 16.8–1.9 24.92S 69.25W 84–15 4.3b
ISCJB VI 04 22 48 17.0–.35 24.90S–.03 69.50W–.05 105–5 4.0b
IDC VI 04 22 48 18.7–.79 24.87S 69.32W 96–5 4.1,3.9
GUC VI 04 22 48 21.7–.55 24.67S 69.50W 76–13 4.0L,3.9
ISC Event type se.
SJA Error ellipse: s-maj=6.7km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=21.3km s-min=13.9km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.0km az=176.8.
IDC Error ellipse: s-maj=23.1km s-min=11.1km az=95.0.
GUC Error ellipse: s-maj=4.3km s-min=8.1km az=-1.0.
ISC VI 05 22 14 24.0–.61 18.36S–.04 69.44W–.06 128–5 4.4b 71 0-150
ISCJB VI 05 22 14 22.8–.30 18.38S–.03 69.41W–.06 136–3 4.4b **¶16856428**
NEIC VI 05 22 14 24.0 18.38S 69.40W 119 4.5b
GUC VI 05 22 14 24.3–.70 18.38S 69.40W 119–4 3.8L
IDC VI 05 22 14 25.1–1.0 18.43S 69.03W 130–8 4.4,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.2km az=2.4.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.1km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=9.3km az=98.0.
ISC VI 06 10 08 03.4–.75 22.14S–.07 68.55W–.07 115 4.7b 32 1-146
SCB VI 06 10 08 01.8–.87 22.17S 68.52W 124 4.0L **¶16856484**
ISCJB VI 06 10 08 02.5–.67 22.21S–.06 68.67W–.09 115 4.5b
SJA VI 06 10 08 02.7–.62 22.16S 68.42W 203–72 3.8W,3.2L
IDC VI 06 10 08 03.3–.48 22.24S 68.40W 111–8 4.6,4.4b
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=24.1km s-min=4.9km az=31.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=8.7km az=158.2.
SJA Error ellipse: s-maj=15.3km s-min=40.7km az=-1.0.

IDC Error ellipse: s-maj=21.2km s-min=18.9km az=154.0.
GUC VI 08 20 39 45.8–.64 22.51S 69.94W 66–4 3.7L ¶601517724
GUC Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
ISC VI 10 14 45 25.9–.33 23.94S–.03 69.45W–.04 81–2 4.9b 563 1-173
SCB VI 10 14 44 55.3–.34 25.53S 70.81W 42 4.6L ¶16587366
MOS VI 10 14 45 21.7–1.0 23.71S 69.28W 46 5.3b
SJA VI 10 14 45 21.3–.35 24.03S 69.58W 263–50 4.6W,4.2L
GUC VI 10 14 45 25.8–.42 23.98S 69.38W 46–5 5.1L,4.2L
NEIC VI 10 14 45 25.0 23.98S 69.37W 46 5.0b,4.2L
ISCJB VI 10 14 45 25.8–.30 23.89S–.03 69.49W–.03 90–2 4.8b,4.2L
BJI VI 10 14 45 26.8 23.90S 69.40W 79 5.2b,5.2s
IDC VI 10 14 45 26.3–.37 23.98S 69.37W 80–2 4.7,4.6
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=9.2km s-min=5.3km az=65.0.
MOS Error ellipse: s-maj=15.6km s-min=7.3km az=113.7.
SJA Error ellipse: s-maj=5.6km s-min=31.3km az=-1.0.
GUC Error ellipse: s-maj=1.9km s-min=2.9km az=-1.0.
NEIC Event type fe. Felt [III] at Mejillones and [II] at Antofagasta, Calama, Ollague, Peine, San Pedro de Atacama and Talabre. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.1km az=157.8.
IDC Error ellipse: s-maj=13.6km s-min=7.7km az=101.0.
ISC VI 14 15 26 43.5–.66 22.22S–.07 68.73W–.07 115 4.6b 32 0-146
GUC VI 14 15 26 30.3–.54 20.20S 69.24W 97–5 3.3L ¶16685955
ISCJB VI 14 15 26 42.1–.48 22.14S–.06 68.66W–.06 115 4.8b
IDC VI 14 15 26 42.2–.75 22.17S 68.60W 96–8 4.3,4.2b
NEIC VI 14 15 26 43.5–.73 22.21S 68.52W 105–7 4.3b,4.2b
SJA VI 14 15 26 43.0–1.2 22.36S 68.81W 110–13 2.8L,4.2b
ISC Event type se.
GUC Error ellipse: s-maj=2.5km s-min=5.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.5km az=28.6.
IDC Error ellipse: s-maj=32.9km s-min=19.0km az=135.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=11.1km az=106.0.
SJA Error ellipse: s-maj=12.7km s-min=16.4km az=-1.0.
ISC VI 15 14 01 31.7–1.2 22.54S–.06 69.2W–.10 99–9 18 0-132
IDC VI 15 14 01 20.9–2.5 23.21S 68.27W 0 4.3,4.3s ¶17206187
ISCJB VI 15 14 01 30.6–.97 22.60S–.07 69.2W–.10 103–9 3.5b,4.3s
GUC VI 15 14 01 32.1–.74 22.56S 69.21W 91–5 4.0L,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=81.1km s-min=50.0km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=21.9km s-min=8.5km az=20.3.
GUC Error ellipse: s-maj=2.9km s-min=5.5km az=-1.0.
ISC VI 15 19 32 52.5–.48 19.93S–.03 69.16W–.05 99–4 4.4b 70 0-152
ISCJB VI 15 19 32 51.9–.30 19.95S–.03 69.14W–.06 111–3 4.5b ¶16730581
NEIC VI 15 19 32 53.8–.85 19.93S 68.97W 112–8 4.3b
GUC VI 15 19 32 53.2–.69 19.96S 69.27W 95–3 4.9L
IDC VI 15 19 32 53.2–.57 19.93S 68.96W 104–5 4.7,4.4
SCB VI 15 19 32 55.4–.55 19.68S 68.71W 105 3.9L,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.2km az=178.4.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.0km az=88.0.
GUC Error ellipse: s-maj=1.5km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=8.5km az=95.0.
SCB Event type ke. Error ellipse: s-maj=19.0km s-min=5.4km az=63.0.
GUC VI 15 22 49 58.1–.58 19.26S 69.50W 99–2 3.7L ¶601517790
GUC Error ellipse: s-maj=1.4km s-min=3.1km az=-1.0.
GUC VI 16 07 16 09.6–.59 23.43S 68.25W 179–9 3.9L ¶601517797
GUC Error ellipse: s-maj=4.5km s-min=8.6km az=-1.0.
ISC VI 17 20 43 06.0–.48 18.18S–.03 69.28W–.05 133–4 4.6b 111 0-150
SCB VI 17 20 43 04.8–.41 18.05S 69.11W 132 3.9L ¶16730834
ISCJB VI 17 20 43 05.1–.24 18.20S–.03 69.36W–.05 140–2 4.6b
NEIC VI 17 20 43 05.4–.65 18.12S 69.16W 125–6 4.6b
GUC VI 17 20 43 06.7–.58 18.23S 69.38W 123–4 4.3L
IDC VI 17 20 43 07.3–.74 18.14S 69.02W 137–6 4.6,4.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=13.4km s-min=4.4km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.9km az=15.6.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.0km az=82.0.
GUC Error ellipse: s-maj=3.0km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=10.3km az=108.0.
ISC VI 18 16 16 20.0–.88 19.28S–.04 69.58W–.07 84–7 25 0-89
ISCJB VI 18 16 16 19.7–.59 19.35S–.04 69.69W–.08 97–4 3.6b ¶17206471
GUC VI 18 16 16 19.8–.42 19.33S 69.61W 86–2 4.0L
IDC VI 18 16 16 23.1–1.7 19.24S 69.27W 124–24 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=5.9km az=172.4.
GUC Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
IDC Error ellipse: s-maj=39.0km s-min=15.0km az=100.0.
ISC VI 18 21 18 41.3–.60 19.60S–.04 69.22W–.08 115–5 4.2b 42 0-152
ISCJB VI 18 21 18 40.5–.36 19.63S–.03 69.25W–.08 123–3 4.2b ¶16684535
IDC VI 18 21 18 41.0–2.7 19.43S 69.07W 108–23 4.5,4.2
GUC VI 18 21 18 41.3–.57 19.62S 69.28W 113–3 4.2L,4.2
NEIC VI 18 21 18 41.0 19.62S 69.28W 113 4.1b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.6km az=0.6.
IDC Error ellipse: s-maj=34.5km s-min=19.3km az=123.0.
GUC Error ellipse: s-maj=1.9km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt [III] at Cuya and [II] at Arica, Camina, Codpa, Pisagua and Poconchile. After GUC.
ISC VI 22 12 49 27.7–.78 22.19S–.05 68.63W–.08 108–6 3.6b 30 0-146
ISCJB VI 22 12 49 26.8–.76 22.20S–.05 68.64W–.10 116–6 3.6b ¶17206754
IDC VI 22 12 49 27.2–.76 22.28S 68.61W 106–9 3.7,3.7
GUC VI 22 12 49 28.0–1.0 22.18S 68.68W 102–6 3.6L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=8.0km az=179.8.
IDC Error ellipse: s-maj=32.1km s-min=26.9km az=72.0.
GUC Error ellipse: s-maj=3.2km s-min=6.1km az=-1.0.
ISC VI 23 03 47 22.2–1.2 24.21S–.07 69.9W–.20 82–14 14 1-148
IDC VI 23 03 47 09.9–4.0 25.46S 69.57W 0 4.0,4.0L ¶17206796
ISCJB VI 23 03 47 21.3–1.0 24.22S–.06 69.9W–.20 92–13 3.6b,4.0L
GUC VI 23 03 47 21.9–.51 24.19S 69.79W 69–10 3.7L,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=128.8km s-min=58.8km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=27.2km s-min=8.6km az=13.1.
GUC Error ellipse: s-maj=2.1km s-min=5.1km az=-1.0.
GUC VI 27 02 40 07.9–.39 22.11S 68.71W 115–3 3.7L ¶601517883
GUC Error ellipse: s-maj=1.4km s-min=3.5km az=-1.0.
GUC VI 28 02 06 38.1–1.4 20.87S 69.17W 106–9 3.6L ¶601517902
GUC Error ellipse: s-maj=4.3km s-min=11.0km az=-1.0.
GUC VI 28 05 17 25.6–.73 19.04S 69.48W 103–4 3.7L ¶601517906
GUC Error ellipse: s-maj=2.1km s-min=4.1km az=-1.0.
GUC VI 29 21 32 25.9–.70 20.08S 69.01W 125–5 3.5L ¶601517928
GUC Error ellipse: s-maj=2.1km s-min=6.4km az=-1.0.
GUC VI 30 02 49 00.0–.54 20.84S 69.10W 106–3 3.5L ¶601517930
GUC Error ellipse: s-maj=1.2km s-min=3.8km az=-1.0.
GUC VI 30 12 56 24.0–.57 23.21S 68.97W 92–6 3.7L ¶601517936
GUC Error ellipse: s-maj=2.6km s-min=5.4km az=-1.0.
GUC VI 30 21 40 30.4–.66 20.60S 69.32W 106–4 3.6L ¶601517942
GUC Error ellipse: s-maj=1.4km s-min=5.1km az=-1.0.

(124) Chile-Bolivia border region.
ISC I 02 07 25 37.5–.96 21.67S–.05 68.23W–.08 114–11 20 1-92
ISCJB I 02 07 25 37.4–.76 21.68S–.05 68.3W–.10 123–11 3.4b ¶17189191
GUC I 02 07 25 38.7–.55 21.70S 68.63W 141–7 3.3L
IDC I 02 07 25 38.1–.91 21.83S 68.04W 113–13 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=7.5km az=171.7.
GUC Error ellipse: s-maj=2.0km s-min=8.2km az=-1.0.
IDC Error ellipse: s-maj=39.8km s-min=17.0km az=132.0.
ISC I 02 10 27 30.8–.72 22.15S–.08 67.4W–.10 178 3.7b 14 2-133
ISCJB I 02 10 27 29.5–.64 22.18S–.07 67.32W–.09 178 3.4b ¶17189206
IDC I 02 10 27 31.1–1.1 22.10S 67.38W 178–11 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=9.2km az=29.9.
IDC Error ellipse: s-maj=19.1km s-min=16.6km az=174.0.
IDC I 03 02 16 13.7–1.1 22.34S 67.43W 161–22 3.9,3.6b ¶17189280
IDC Error ellipse: s-maj=37.3km s-min=17.7km az=110.0.
GUC I 03 02 33 35.1–.66 21.19S 68.65W 140–9 3.5L ¶601516013
GUC Error ellipse: s-maj=2.7km s-min=10.9km az=-1.0.
ISC I 03 03 13 39.1–.95 21.11S–.07 68.2W–.10 136 3.5b 9 2-91
ISCJB I 03 03 13 38.2–.73 21.08S–.07 68.1W–.10 136 3.5b ¶17189288
IDC I 03 03 13 38.7–.77 21.06S 68.22W 128–12 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=8.2km az=16.4.
IDC Error ellipse: s-maj=29.5km s-min=10.3km az=101.0.
ISC I 05 09 26 23.7–.82 20.61S–.04 68.99W–.10 109–9 3.6b 25 1-145
ISCJB I 05 09 26 23.2–.51 20.61S–.03 69.00W–.09 115–7 3.7b ¶17189496
GUC I 05 09 26 24.8–.51 20.65S 69.25W 111–3 3.8L
IDC I 05 09 26 25.5–1.4 20.67S 68.67W 116–15 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=5.2km az=176.3.
GUC Error ellipse: s-maj=1.2km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=37.6km s-min=14.9km az=104.0.
ISC I 05 12 01 34.1–1.4 21.37S–.05 68.6W–.10 140–14 19 1-91
IDC I 05 12 01 33.9–1.2 21.42S 68.09W 121–14 3.5,3.3 ¶17189502
GUC I 05 12 01 33.2–.60 21.34S 68.64W 142–5 3.1L,3.3
ISCJB I 05 12 01 34.3–.76 21.36S–.04 68.6W–.10 137–8 3.3b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 07 08 04 33.0–.93 21.58S–.05 68.31W–.08 105–11 22 1-145
ISCJB I 07 08 04 33.0–.74 21.60S–.04 68.4W–.10 120–11 3.5b ¶17189626
IDC I 07 08 04 33.8–.94 21.61S 68.18W 104–12 3.7,3.5
GUC I 07 08 04 33.7–.54 21.60S 68.64W 132–7 3.4L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=7.1km az=173.7.
IDC Error ellipse: s-maj=36.4km s-min=15.4km az=128.0.
GUC Error ellipse: s-maj=1.7km s-min=7.5km az=-1.0.
ISC I 07 08 19 07.6–.87 21.61S–.05 68.18W–.08 113–11 22 1-145
ISCJB I 07 08 19 07.3–.67 21.63S–.04 68.3W–.10 132–10 3.9b ¶17189627
GUC I 07 08 19 08.6–.65 21.64S 68.59W 144–9 3.8L
IDC I 07 08 19 08.3–1.0 21.84S 67.81W 103–16 3.9,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=7.2km az=174.7.
GUC Error ellipse: s-maj=2.1km s-min=9.5km az=-1.0.
IDC Error ellipse: s-maj=44.3km s-min=14.6km az=127.0.
GUC I 07 22 09 37.0–.66 21.77S 68.75W 118–6 3.5L ¶601516068
GUC Error ellipse: s-maj=3.0km s-min=6.8km az=-1.0.
ISC I 12 03 47 23.2–.99 21.24S–.05 68.7W–.10 124–12 21 1-91
GUC I 12 03 47 21.9–.42 21.23S 68.74W 138–4 3.2L ¶17189966
ISCJB I 12 03 47 22.3–.68 21.23S–.04 68.6W–.10 128–10 3.4b
IDC I 12 03 47 23.3–1.1 21.26S 68.36W 117–16 3.7,3.3
ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=5.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=6.8km az=172.8.
IDC Error ellipse: s-maj=32.6km s-min=18.2km az=117.0.
GUC I 12 17 13 21.7–.61 21.59S 68.86W 121–4 3.7L ¶601516157
GUC Error ellipse: s-maj=1.7km s-min=5.5km az=-1.0.
GUC I 15 07 55 33.0–.49 21.99S 68.88W 100–8 3.5L ¶601516186
GUC Error ellipse: s-maj=2.0km s-min=5.6km az=-1.0.
ISC I 16 07 53 56.5–.85 20.20S–.04 68.86W–.08 96–11 22 1-128
ISCJB I 16 07 53 56.9–.66 20.18S–.04 69.0W–.10 113–10 3.6b ¶17190305
GUC I 16 07 53 56.9–.41 20.20S 69.07W 111–4 3.7L
IDC I 16 07 53 58.8–1.0 20.29S 68.61W 113–12 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=6.5km az=171.3.
GUC Error ellipse: s-maj=1.1km s-min=4.7km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=8.7km az=100.0.
GUC I 16 22 19 17.1–.34 21.10S 68.87W 133–2 3.5L ¶601516203
GUC Error ellipse: s-maj=0.9km s-min=3.3km az=-1.0.
ISC I 18 09 27 08.1–1.0 21.40S–.04 68.4W–.10 132–10 3.8b 25 1-145
ISCJB I 18 09 27 07.6–.70 21.41S–.04 68.5W–.10 140–9 3.6b ¶17190476
IDC I 18 09 27 07.5–.91 21.44S 68.05W 120–12 3.9,3.6
GUC I 18 09 27 07.5–.47 21.39S 68.49W 135–5 3.5L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=6.2km az=3.4.
IDC Error ellipse: s-maj=34.2km s-min=11.3km az=106.0.
GUC Error ellipse: s-maj=1.5km s-min=4.6km az=-1.0.
ISC I 18 19 24 15.2–.81 21.32S–.04 68.76W–.09 123–8 3.8b 26 1-147
ISCJB I 18 19 24 14.6–.55 21.32S–.04 68.77W–.09 130–7 3.7b ¶17190501
GUC I 18 19 24 15.2–.40 21.31S 68.87W 128–2 4.1L
IDC I 18 19 24 15.4–.75 21.32S 68.67W 122–9 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=6.2km az=174.2.
GUC Error ellipse: s-maj=1.1km s-min=3.3km az=-1.0.
IDC Error ellipse: s-maj=33.2km s-min=11.8km az=98.0.
GUC I 19 21 13 44.1–.31 22.43S 67.72W 178–6 4.0L ¶601516244
GUC Error ellipse: s-maj=2.2km s-min=5.9km az=-1.0.
ISC I 20 15 27 40.5–1.2 21.68S–.07 68.5W–.20 137–14 17 1-146
IDC I 20 15 27 22.7–5.0 22.93S 68.16W 0 4.2b,4.0 ¶17190629
ISCJB I 20 15 27 39.8–.82 21.71S–.06 68.6W–.20 147–12 3.8b,4.0
GUC I 20 15 27 40.9–.38 21.71S 68.63W 137–3 4.0L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=135.0km s-min=52.2km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=25.5km s-min=10.5km az=179.1.
GUC Error ellipse: s-maj=1.6km s-min=3.5km az=-1.0.
ISC I 21 12 02 41.1–.74 21.22S–.04 68.65W–.06 112–7 4.3b 68 1-160
ISCJB I 21 12 02 40.3–.36 21.22S–.04 68.63W–.05 116–4 4.2b ¶15957992
GUC I 21 12 02 40.8–.60 21.24S 68.74W 115–6 4.5L
IDC I 21 12 02 40.2–1.4 21.13S 68.54W 104–16 4.5s,4.5
NEIC I 21 12 02 41.6–.71 21.23S 68.36W 116–7 4.4b,4.5
SJA I 21 12 02 41.4–.49 21.42S 68.68W 135–13 3.2,4.5
BJI I 21 12 02 42.6 21.20S 68.40W 110 3.2,4.5
SCB I 21 12 02 50.0–.82 20.33S 68.61W 115 3.5L,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.3km az=154.0.
GUC Error ellipse: s-maj=1.6km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=17.8km az=144.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.4km az=63.0. Felt [II] at Pozo Almonte.
SJA Error ellipse: s-maj=11.6km s-min=9.7km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=73.0km s-min=17.9km az=93.0.
GUC I 22 00 06 01.8–.47 22.25S 67.67W 190–11 3.9L ¶601516272
GUC Error ellipse: s-maj=4.1km s-min=7.7km az=-1.0.
ISC I 25 14 03 40.8–.75 22.47S–.05 67.53W–.04 170–7 3.7b 50 1-146
ISCJB I 25 14 03 39.9–.32 22.50S–.03 67.56W–.04 175–3 3.7b ¶17190966
IDC I 25 14 03 39.9–.91 22.45S 67.33W 158–8 4.1,3.9

SJA I 25 14 03 40.0–.91 22.39S 67.48W 170–13 4.0L,3.4W
GUC I 25 14 03 41.6–.56 22.36S 67.86W 201–7 4.4L,3.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.2km az=41.5.
IDC Error ellipse: s-maj=15.2km s-min=14.2km az=81.0.
SJA Error ellipse: s-maj=11.0km s-min=4.0km az=-1.0.
GUC Error ellipse: s-maj=2.6km s-min=7.8km az=-1.0.
GUC I 26 10 43 27.6–.28 21.46S 68.44W 149–3 3.5L
¶601516335
GUC Error ellipse: s-maj=0.9km s-min=3.7km az=-1.0.
ISC I 27 22 20 58.2–.90 21.04S–.06 68.7W–.10 144–11 3.8b 22 1-145
ISCJB I 27 22 20 57.3–.60 21.04S–.05 68.7W–.10 150–9 3.6b **¶601516359**
GUC I 27 22 20 57.6–.46 21.01S 68.63W 142–4 3.6L
IDC I 27 22 21 18.3–6.9 19.09S 67.69W 259–40 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=8.3km az=171.5.
GUC Error ellipse: s-maj=2.1km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=109.3km s-min=26.4km az=23.0.
GUC I 30 00 57 38.7–.55 21.21S 67.68W 204–11 3.5L
¶601516388
GUC Error ellipse: s-maj=2.7km s-min=10.0km az=-1.0.
ISC II 01 14 07 31.4–1.2 21.30S–.07 68.1W–.20 166–16 17 1-145
ISCJB II 01 14 07 30.8–.95 21.32S–.07 68.2W–.20 180–17 3.3b **¶17191485**
IDC II 01 14 07 30.2–1.3 21.39S 67.52W 139–21 3.6,3.3b
GUC II 01 14 07 31.3–.39 21.27S 68.11W 157–8 3.5L,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.7km s-min=9.7km az=170.1.
IDC Error ellipse: s-maj=52.1km s-min=18.3km az=121.0.
GUC Error ellipse: s-maj=2.1km s-min=7.2km az=-1.0.
GUC II 02 01 08 24.7–.49 21.31S 67.47W 297–12 3.5L
¶601516424
GUC Error ellipse: s-maj=3.5km s-min=15.4km az=-1.0.
GUC II 02 04 23 00.8–.64 21.97S 68.60W 135–8 3.7L
¶601516425
GUC Error ellipse: s-maj=2.8km s-min=8.2km az=-1.0.
GUC II 03 03 17 02.4–.67 21.78S 68.67W 107–7 3.7L
¶601516444
GUC Error ellipse: s-maj=2.9km s-min=6.0km az=-1.0.
ISC II 08 07 54 14.3–.86 22.00S–.05 68.37W–.08 114–9 23 1-146
ISCJB II 08 07 54 14.0–.63 22.02S–.05 68.52W–.09 129–8 3.5b **¶17191890**
IDC II 08 07 54 15.3–.73 22.10S 68.33W 113–11 3.9,3.6
GUC II 08 07 54 16.5–.44 22.03S 68.71W 120–7 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.0km az=173.7.
IDC Error ellipse: s-maj=27.9km s-min=23.3km az=149.0.
GUC Error ellipse: s-maj=2.1km s-min=6.2km az=-1.0.
ISC II 10 12 45 50.5–.64 21.25S–.04 68.69W–.07 116–6 4.4b 40 1-145
ISCJB II 10 12 45 49.1–.44 21.24S–.04 68.67W–.08 121–6 4.5b **¶16358571**
GUC II 10 12 45 50.2–.56 21.26S 68.79W 121–4 4.4L
NEIC II 10 12 45 50.0 21.26S 68.79W 121 4.6b
IDC II 10 12 45 51.6–.67 21.37S 68.43W 116–6 4.5,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=5.8km az=177.4.
GUC Error ellipse: s-maj=1.7km s-min=4.8km az=-1.0.
NEIC Event type se. After GUC.
IDC Error ellipse: s-maj=27.3km s-min=8.9km az=113.0.
ISC II 11 02 55 51.9–.85 22.08S–.06 67.39W–.05 176–9 29 2-145
SJA II 11 02 55 49.7–.59 21.89S 66.63W 252–10 3.2W,3.0L **¶17192045**
ISCJB II 11 02 55 51.6–.52 22.11S–.05 67.43W–.04 180–6 3.7b,3.0L
IDC II 11 02 55 51.1–1.4 22.13S 67.19W 164–17 4.1,3.8
GUC II 11 02 55 52.8–.28 22.08S 67.82W 207–5 4.1L,3.8
ISC Event type ke.
SJA Error ellipse: s-maj=11.8km s-min=11.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.6km az=35.5.
IDC Error ellipse: s-maj=33.2km s-min=15.9km az=116.0.
GUC Error ellipse: s-maj=1.9km s-min=5.9km az=-1.0.
ISC II 13 00 36 29.2–.76 21.57S–.06 68.15W–.07 112–8 3.9b 28 1-145
ISCJB II 13 00 36 28.4–.57 21.56S–.05 68.16W–.07 117–6 3.8b **¶17192131**
GUC II 13 00 36 29.7–.44 21.56S 68.47W 141–6 3.8L
IDC II 13 00 36 30.1–3.3 21.64S 68.17W 119–26 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.7km az=7.1.
GUC Error ellipse: s-maj=1.8km s-min=6.7km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=17.5km az=37.0.
ISC II 13 04 02 05.8–1.1 21.43S–.07 67.19W–.09 177–12 30 2-145
GUC II 13 04 02 08.1–.44 21.42S 67.63W 198–10 3.7L **¶17192138**
IDC II 13 04 02 10.2–5.2 21.13S 67.03W 206–39 3.9,3.5b
ISC Event type ke.
GUC Error ellipse: s-maj=1.8km s-min=9.0km az=-1.0.
IDC Error ellipse: s-maj=56.3km s-min=20.9km az=14.0.
ISC II 15 22 36 57.7–1.9 22.17S–.06 67.42W–.05 178–18 32 2-4
SJA II 15 22 36 56.9–.39 22.11S 67.30W 188–13 2.7L **¶601516602**
ISCJB II 15 22 36 58.0–1.0 22.18S–.06 67.44W–.05 172–12 2.7L
GUC II 15 22 36 59.1–.51 22.17S 67.94W 211–7 4.1L
ISC Event type ke.
SJA Error ellipse: s-maj=3.2km s-min=13.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.6km az=32.5.
GUC Error ellipse: s-maj=3.8km s-min=9.5km az=-1.0.
ISC II 16 05 54 01.8–.90 21.19S–.05 68.6W–.10 107–15 3.7b 19 1-77
ISCJB II 16 05 54 01.3–.61 21.23S–.05 68.7W–.10 114–12 3.7b **¶17192346**
GUC II 16 05 54 03.1–.54 21.23S 68.92W 116–5 3.8L
IDC II 16 05 54 04.0–2.9 21.18S 68.57W 122–27 3.9,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=7.9km az=8.1.
GUC Error ellipse: s-maj=1.5km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=44.0km s-min=24.4km az=108.0.
ISC II 16 09 37 05.4–.60 21.18S–.06 67.68W–.06 150 3.9b 36 2-153
SCB II 16 09 37 02.8–.14 21.04S 67.07W 185 3.5L **¶17192359**
ISCJB II 16 09 37 04.6–.42 21.03S–.05 67.58W–.05 150 3.7b
SJA II 16 09 37 05.5–.42 21.08S 67.08W 246–6 3.4L
GUC II 16 09 37 07.5–.31 21.02S 68.34W 213–9 4.6L
IDC II 16 09 37 07.3–1.9 21.16S 67.62W 167–16 4.1,3.8
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=15.0km s-min=2.9km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.7km az=34.4.
SJA Error ellipse: s-maj=3.5km s-min=7.7km az=-1.0.
GUC Error ellipse: s-maj=6.4km s-min=11.6km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=14.1km az=55.0.
ISC II 19 07 22 24.7–.49 21.90S–.03 68.66W–.05 115–4 4.5b 137 1-169
ISCJB II 19 07 22 23.1–.36 21.84S–.03 68.51W–.04 106–3 4.5b **¶16168879**
BJI II 19 07 22 24.1 21.90S 68.50W 103 5.4b
GUC II 19 07 22 24.3–.83 21.82S 68.85W 129–9 4.6L
IDC II 19 07 22 25.9–.65 21.82S 68.45W 123–4 4.4,4.1
NEIC II 19 07 22 26.1–.23 21.85S 68.37W 122 4.5b,4.4W
SCB II 19 07 22 30.2–.82 21.23S 69.26W 89 3.7L,4.4W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=154.7.
GUC Error ellipse: s-maj=2.7km s-min=10.0km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=13.6km az=29.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=219.0. Moment Tensor Solution. s6 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.45 $M_{\theta\theta}$-0.81 $M_{\phi\phi}$2.26 $M_{r\theta}$-1.62 $M_{\theta\phi}$-0.70 $M_{\phi r}$-3.66 Best double couple: NP1:ϕ_s136.00000°,δ22.00000°,λ-153.00000°. NP2:ϕ_s20.00000°,δ80.00000°,λ-70.00000°. Principal axes: T 4.5200,Plg32.0000°,Azm93.0000° ; N 0.0000,Plg20.0000°,Azm196.0000°; P -4.5200,Plg51.0000°,Azm313.0000° $M_0$4.50000×10^{15}
SCB Event type ke. Error ellipse: s-maj=89.1km s-min=16.9km az=99.0.
ISC II 19 17 25 35.3–.82 21.30S–.04 69.0W–.10 120–8 25 1-146
ISCJB II 19 17 25 34.5–.56 21.29S–.04 68.9W–.10 124–8 3.9b **¶17192545**
GUC II 19 17 25 35.3–.31 21.30S 69.03W 120–1 4.0L
IDC II 19 17 25 36.8–3.1 21.23S 68.55W 113–28 4.1,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=6.5km az=177.3.
GUC Error ellipse: s-maj=0.7km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=42.8km s-min=25.3km az=106.0.
ISC II 20 01 21 07.2–.97 21.26S–.06 68.17W–.09 128–11 3.7b 28 1-145
ISCJB II 20 01 21 06.1–.69 21.28S–.05 68.2W–.10 134–11 3.6b **¶17192565**
IDC II 20 01 21 06.9–6.8 21.42S 67.87W 119–48 3.8,3.6b
GUC II 20 01 21 07.9–.74 21.25S 68.41W 142–11 3.4L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=7.7km az=3.3.
IDC Error ellipse: s-maj=61.3km s-min=24.9km az=25.0.
GUC Error ellipse: s-maj=2.6km s-min=10.7km az=-1.0.
GUC II 20 05 41 32.2–.77 21.86S 68.86W 124–9 3.5L
¶601516645
GUC Error ellipse: s-maj=2.9km s-min=9.1km az=-1.0.
GUC II 21 11 03 15.5–.57 21.92S 68.85W 111–6 3.7L
¶601516658
GUC Error ellipse: s-maj=2.1km s-min=6.1km az=-1.0.
ISC II 22 04 02 31.4–1.2 20.49S–.06 69.0W–.10 122–11 17 1-90
IDC II 22 04 02 10.8–3.1 21.86S 69.18W 0 3.8,3.7b **¶17192670**
ISCJB II 22 04 02 31.2–.90 20.49S–.05 69.0W–.20 126–9 3.4b,3.7b
GUC II 22 04 02 31.1–.48 20.45S 68.97W 116–4 3.3L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=83.5km s-min=55.6km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=8.2km az=3.4.
GUC Error ellipse: s-maj=1.6km s-min=5.9km az=-1.0.
ISC II 26 19 50 26.7–1.0 21.75S–.08 67.48W–.07 200 17 2-145
ISCJB II 26 19 50 26.3–.57 21.70S–.07 67.52W–.07 200 3.3b **¶17192919**
SJA II 26 19 50 27.1–.45 21.46S 67.23W 126–32 2.9W,2.5L
GUC II 26 19 50 29.1–.43 21.55S 67.87W 211–10 3.4L,2.5L
IDC II 26 19 50 35.6–8.8 20.96S 66.84W 228–73 3.6,3.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=5.7km az=44.9.
SJA Error ellipse: s-maj=13.6km s-min=13.3km az=-1.0.
GUC Error ellipse: s-maj=4.2km s-min=11.3km az=-1.0.
IDC Error ellipse: s-maj=101.9km s-min=81.2km az=26.0.
ISC II 27 10 17 59.2–.96 21.36S–.08 68.6W–.10 113–12 16 1-91
IDC II 27 10 17 40.2–2.5 22.62S 69.03W 0 3.8,3.7 **¶17192943**
ISCJB II 27 10 17 58.6–.74 21.37S–.07 68.6W–.10 117–12 3.3b,3.7
GUC II 27 10 18 00.1–.48 21.37S 68.81W 128–5 3.6L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=56.2km s-min=42.7km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=11.7km az=13.2.
GUC Error ellipse: s-maj=1.9km s-min=5.2km az=-1.0.
ISC III 02 14 54 47.7–1.2 21.39S–.05 68.5W–.10 136–12 23 1-145
IDC III 02 14 54 34.9–5.7 21.98S 67.09W 0 4.0b,3.8 **¶17193142**
GUC III 02 14 54 46.4–.63 21.38S 68.58W 147–4 3.9L,3.8
ISCJB III 02 14 54 46.5–.84 21.40S–.05 68.5W–.10 148–11 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
GUC III 02 17 54 24.5–.42 21.91S 68.82W 115–3 3.5L
¶601516750
GUC Error ellipse: s-maj=1.5km s-min=3.8km az=-1.0.
ISC III 05 05 25 36.0–1.1 21.08S–.06 68.6W–.20 169–17 18 1-77
ISCJB III 05 05 25 35.4–.73 21.08S–.05 68.6W–.20 178–13 3.7b **¶17193268**
GUC III 05 05 25 35.7–.63 21.06S 68.61W 167–7 3.6L
IDC III 05 05 25 36.1–9.0 21.14S 67.56W 126–153 3.9,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.4km s-min=7.6km az=4.3.
GUC Error ellipse: s-maj=2.2km s-min=9.8km az=-1.0.
IDC Error ellipse: s-maj=396.4km s-min=76.3km az=86.0.
GUC III 06 04 31 39.3–.55 21.55S 68.68W 129–6 3.5L
¶601516764
GUC Error ellipse: s-maj=2.3km s-min=6.5km az=-1.0.
IDC III 06 19 26 06.0–7.3 18.49S 68.95W 139–52 3.9,3.6
¶17193375
IDC Error ellipse: s-maj=92.2km s-min=42.3km az=17.0.
ISC III 08 10 58 18.0–.98 21.15S–.06 68.7W–.10 117–10 3.3b 21 1-91
ISCJB III 08 10 58 17.1–.65 21.16S–.05 68.67W–.10 121–7 3.3b **¶601516791**
GUC III 08 10 58 18.2–.63 21.13S 68.73W 111–8 3.9L
IDC III 08 10 58 45.9–11 18.25S 67.49W 278–43 3.5,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=7.8km az=3.5.
GUC Error ellipse: s-maj=1.9km s-min=7.5km az=-1.0.
IDC Error ellipse: s-maj=272.8km s-min=20.7km az=17.0.
ISC III 09 10 04 43.0–.00 21.15S–.06 68.6W–.10 114–13 19 1-91
ISCJB III 09 10 04 41.9–.68 21.14S–.05 68.5W–.10 114–11 3.6b **¶17193538**
GUC III 09 10 04 43.3–.67 21.14S 68.70W 117–8 3.9L
IDC III 09 10 04 55.0–6.4 20.23S 68.06W 186–43 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=8.6km az=4.3.
GUC Error ellipse: s-maj=2.1km s-min=8.3km az=-1.0.
IDC Error ellipse: s-maj=69.5km s-min=21.6km az=23.0.
ISC III 09 19 47 44.0–.93 21.82S–.05 68.36W–.09 109–9 4.3b 30 1-146
ISCJB III 09 19 47 43.0–.68 21.82S–.05 68.35W–.09 112–8 3.9b **¶17193576**
GUC III 09 19 47 45.4–.58 21.82S 68.70W 125–4 4.4L
IDC III 09 19 47 45.3–2.8 21.81S 68.24W 115–24 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=8.9km az=4.2.
GUC Error ellipse: s-maj=1.9km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=20.3km az=27.0.
ISC III 14 00 54 04.2–1.0 21.61S–.06 68.39W–.10 117–11 3.7b 23 1-153
ISCJB III 14 00 54 03.0–.69 21.62S–.05 68.39W–.10 127–9 3.7b **¶17195028**
GUC III 14 00 54 04.8–.37 21.58S 68.59W 127–4 3.8L
IDC III 14 00 54 10.1–6.9 21.25S 68.04W 154–48 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=7.9km az=13.5.
GUC Error ellipse: s-maj=1.2km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=64.8km s-min=18.7km az=22.0.
GUC III 14 20 35 28.8–.85 21.09S 68.78W 122–5 3.5L
¶601516860
GUC Error ellipse: s-maj=1.9km s-min=7.0km az=-1.0.
GUC III 16 18 06 22.2–.38 21.27S 67.16W 260–12 3.6L
¶601516886
GUC Error ellipse: s-maj=4.0km s-min=11.0km az=-1.0.
ISC III 17 12 05 06.5–1.2 21.80S–.06 68.7W–.10 137–11 18 1-92
ISCJB III 17 12 05 05.5–.91 21.81S–.05 68.6W–.10 139–10 3.5b **¶17196709**
GUC III 17 12 05 05.0–.45 21.84S 68.59W 138–4 3.7L
IDC III 17 12 05 10.5–9.2 21.56S 68.41W 161–64 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=8.3km az=5.6.
GUC Error ellipse: s-maj=2.2km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=87.3km s-min=50.9km az=32.0.
ISC III 18 10 09 00.7–.84 21.28S–.08 67.75W–.08 150 3.8b 18 2-145
ISCJB III 18 10 08 59.9–.73 21.29S–.07 67.78W–.07 150 3.6b **¶17196989**
GUC III 18 10 09 03.3–1.6 21.36S 68.13W 161–87 3.5L
IDC III 18 10 09 06.8–6.8 20.84S 67.53W 185–47 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.1km az=139.2.
GUC Error ellipse: s-maj=13.8km s-min=77.4km az=-1.0.
IDC Error ellipse: s-maj=71.1km s-min=18.5km az=18.0.
GUC III 22 18 03 08.7–.53 21.71S 68.58W 133–4 3.5L
¶601516928
GUC Error ellipse: s-maj=2.6km s-min=5.3km az=-1.0.
ISC III 26 18 30 36.8–1.5 21.6S–.10 68.3W–.10 107–14 14 1-145
ISCJB III 26 18 30 36.1–1.1 21.6S–.10 68.3W–.10 112–14 3.6b **¶17198671**
GUC III 26 18 30 37.9–.57 21.63S 68.65W 135–8 3.7L
IDC III 26 18 30 55.9–15 20.16S 67.61W 227–91 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=17.4km az=4.2.
GUC Error ellipse: s-maj=3.8km s-min=8.7km az=-1.0.
IDC Error ellipse: s-maj=237.5km s-min=33.0km az=16.0.

GUC III 28 21 31 07.5–.65 21.91S 68.66W 126–5 3.8L
¶601516972
GUC Error ellipse: s-maj=3.2km s-min=6.6km az=-1.0.
GUC III 29 01 14 35.6–.64 21.26S 68.92W 117–5 3.5L
¶601516973
GUC Error ellipse: s-maj=1.5km s-min=5.5km az=-1.0.
ISC III 29 21 20 54.8–1.1 21.11S–.05 68.6W–.10 142–10 24 1-77
GUC III 29 21 20 53.6–.81 21.09S 68.55W 141–7 3.4L **¶17199116**
ISCJB III 29 21 20 54.4–.79 21.11S–.04 68.6W–.10 150–8 3.0b
IDC III 29 21 20 55.5–9.1 21.12S 68.16W 150–65 3.3,3.1
ISC Event type ke.
GUC Error ellipse: s-maj=2.5km s-min=7.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=6.0km az=8.6.
IDC Error ellipse: s-maj=84.0km s-min=36.6km az=22.0.
ISC III 31 21 28 56.4–.74 20.11S–.05 68.76W–.08 118–7 4.1b 28 0-152
ISCJB III 31 21 28 55.7–.45 20.13S–.04 68.73W–.08 127–6 3.9b **¶17199355**
GUC III 31 21 28 56.8–.76 20.08S 68.87W 119–4 4.0L
IDC III 31 21 28 56.6–2.6 20.24S 68.61W 120–21 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.0km az=4.0.
GUC Error ellipse: s-maj=2.0km s-min=5.5km az=-1.0.
IDC Error ellipse: s-maj=27.1km s-min=22.2km az=54.0.
GUC IV 01 00 13 27.6–.37 22.60S 67.07W 295–9 3.6L
¶601516999
GUC Error ellipse: s-maj=3.2km s-min=9.6km az=-1.0.
ISC IV 01 14 50 54.8–.47 21.43S–.03 68.21W–.04 121–4 4.5b 118 1-173
NEIC IV 01 14 50 53.7–.63 21.53S 68.12W 108–6 4.8b **¶16403916**
GUC IV 01 14 50 54.8–.74 21.45S 68.59W 138–6 5.0L
ISCJB IV 01 14 50 54.1–.25 21.45S–.03 68.36W–.03 129–3 4.5b
BJI IV 01 14 50 54.1 21.50S 68.10W 100 5.2b
SJA IV 01 14 50 55.7–.44 21.40S 67.90W 209–26 3.7W,3.7L
IDC IV 01 14 50 56.3–.62 21.44S 68.11W 130–5 4.4,4.1
SCB IV 01 14 50 57.1–.57 21.07S 68.01W 125 3.9L,4.1
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=7.3km az=60.0.
GUC Error ellipse: s-maj=2.0km s-min=6.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=157.4.
SJA Error ellipse: s-maj=6.9km s-min=22.9km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=13.7km az=42.0.
SCB Event type ke. Error ellipse: s-maj=15.7km s-min=7.4km az=47.0.
ISC IV 02 07 03 02.6–1.2 21.31S–.06 68.1W–.10 154–12 25 1-145
IDC IV 02 07 03 00.8–8.4 21.44S 67.85W 135–55 3.7,3.4 **¶17199505**
ISCJB IV 02 07 03 03.0–.91 21.31S–.05 68.2W–.10 170–11 3.4b,3.4
GUC IV 02 07 03 03.5–.37 21.35S 68.23W 158–5 3.3L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=85.8km s-min=33.1km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=7.6km az=8.5.
GUC Error ellipse: s-maj=1.6km s-min=4.2km az=-1.0.
ISC IV 02 16 47 17.6–.88 19.94S–.04 68.8W–.10 133–7 3.9b 28 0-152
ISCJB IV 02 16 47 17.7–.66 19.95S–.04 68.9W–.10 137–6 3.8b **¶17199551**
GUC IV 02 16 47 17.0–.52 19.91S 68.78W 130–3 3.7L
IDC IV 02 16 47 18.7–2.2 19.96S 68.20W 144–18 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=6.1km az=6.8.
GUC Error ellipse: s-maj=1.7km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=29.2km s-min=18.9km az=76.0.
ISC IV 05 10 52 14.6–1.0 21.52S–.07 68.2W–.10 125–11 3.9b 19 1-91
ISCJB IV 05 10 52 13.6–.72 21.55S–.06 68.2W–.10 129–9 3.6b **¶17199881**
GUC IV 05 10 52 15.5–.57 21.48S 68.58W 145–6 4.1L
IDC IV 05 10 52 25.1–25 20.70S 67.76W 188–156 4.1L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=9.5km az=16.5.
GUC Error ellipse: s-maj=2.1km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=357.3km s-min=22.6km az=18.0.
ISC IV 08 22 09 19.0–.71 21.04S–.05 67.84W–.04 161–6 3.9b 57 2-153
SJA IV 08 22 09 18.5–.68 21.01S 67.65W 196–41 4.0L,3.9W **¶16509625**
ISCJB IV 08 22 09 18.6–.31 21.13S–.04 67.92W–.04 171–3 3.9b,3.9W
SCB IV 08 22 09 18.8–.29 20.67S 67.31W 179 3.6L,3.9W
GUC IV 08 22 09 20.2–.51 21.02S 68.19W 178–5 4.2L,3.9W
NEIC IV 08 22 09 21.4–.76 20.91S 67.53W 178–6 4.0b,3.9W
IDC IV 08 22 09 21.8–1.9 20.87S 67.52W 179–15 4.3,3.9
ISC Event type ke.
SJA Error ellipse: s-maj=13.0km s-min=38.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=42.3.
SCB Event type ke. Error ellipse: s-maj=11.1km s-min=3.4km az=46.0.
GUC Error ellipse: s-maj=1.8km s-min=8.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.1km az=67.0.
IDC Error ellipse: s-maj=20.2km s-min=15.0km az=55.0.
ISC IV 09 05 31 36.3–.79 22.15S–.05 67.48W–.04 168–7 3.8b 42 2-145
IDC IV 09 05 31 34.8–5.3 22.17S 67.34W 150–39 3.9,3.6 **¶16648398**
ISCJB IV 09 05 31 35.3–.40 22.19S–.04 67.54W–.04 174–5 3.6b,3.6
GUC IV 09 05 31 36.6–.70 22.17S 67.87W 191–19 4.2L,3.6
SJA IV 09 05 31 36.2–.75 22.23S 67.27W 200–16 2.9W,2.4L
ISC Event type ke.
IDC Error ellipse: s-maj=46.9km s-min=18.4km az=19.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.1km az=37.0.
GUC Error ellipse: s-maj=3.6km s-min=18.4km az=-1.0.
SJA Error ellipse: s-maj=5.8km s-min=20.7km az=-1.0.
ISC IV 12 21 22 47.1–1.1 21.13S–.05 68.8W–.20 131–12 16 1-145
IDC IV 12 21 22 43.9–9.1 21.37S 67.95W 80–71 3.6,3.5L **¶17200812**
ISCJB IV 12 21 22 46.4–.87 21.15S–.05 68.8W–.20 138–11 3.3b,3.5L
GUC IV 12 21 22 47.1–.47 21.12S 68.78W 126–4 3.5L,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=131.3km s-min=62.1km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=26.5km s-min=7.7km az=6.0.
GUC Error ellipse: s-maj=1.6km s-min=4.6km az=-1.0.
ISC IV 13 13 05 36.3–1.5 21.60S–.07 68.3W–.10 112–15 4.0b 15 1-91
ISCJB IV 13 13 05 35.3–.79 21.59S–.06 68.3W–.10 115–11 4.0b **¶17200898**
GUC IV 13 13 05 37.2–.53 21.67S 68.63W 130–5 4.0L
IDC IV 13 13 05 48.3–7.0 20.85S 67.92W 188–48 4.0,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=9.8km az=7.8.
GUC Error ellipse: s-maj=2.2km s-min=7.2km az=-1.0.
IDC Error ellipse: s-maj=72.6km s-min=24.5km az=20.0.
ISC IV 13 14 05 12.8–.92 21.18S–.06 68.9W–.10 105–11 16 1-145
ISCJB IV 13 14 05 11.9–.69 21.21S–.05 69.0W–.20 118–10 3.8b **¶17200905**
GUC IV 13 14 05 12.9–.43 21.20S 69.04W 106–3 3.6L
IDC IV 13 14 05 20.0–7.9 20.78S 68.43W 143–49 3.8,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.6km s-min=8.4km az=177.6.
GUC Error ellipse: s-maj=1.2km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=88.2km s-min=41.0km az=31.0.
IDC IV 13 23 57 16.5–5.7 19.99S 68.82W 129–36 3.5,3.3
¶17200965
IDC Error ellipse: s-maj=76.5km s-min=30.9km az=45.0.
GUC IV 14 07 55 18.5–.71 21.51S 68.56W 150–8 3.6L
¶601517122
GUC Error ellipse: s-maj=2.6km s-min=10.0km az=-1.0.
ISC IV 15 18 15 03.9–1.1 21.14S–.05 68.7W–.10 138–10 25 1-145
IDC IV 15 18 14 44.9–5.3 22.45S 68.32W 0 4.0b,3.7 **¶17201160**
ISCJB IV 15 18 15 03.4–.84 21.14S–.04 68.7W–.10 143–10 3.6b,3.7
GUC IV 15 18 15 03.7–.46 21.11S 68.66W 131–3 3.7L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=158.0km s-min=55.6km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=6.3km az=0.7.
GUC Error ellipse: s-maj=1.3km s-min=3.7km az=-1.0.
ISC IV 15 18 37 15.3–.85 21.85S–.05 67.11W–.04 194–8 37 2-145
IDC IV 15 18 37 11.6–2.7 22.05S 66.99W 152–24 3.7,3.4 **¶16648798**
ISCJB IV 15 18 37 14.9–.48 21.89S–.04 67.17W–.04 202–6 3.2b,3.4
GUC IV 15 18 37 17.0–.43 21.83S 67.64W 230–6 4.4L,3.4
SJA IV 15 18 37 22.8–.47 21.89S 66.39W 182–5 3.0W,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=23.3km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.0km az=38.7.
GUC Error ellipse: s-maj=3.1km s-min=7.8km az=-1.0.
SJA Error ellipse: s-maj=4.4km s-min=15.7km az=-1.0.
ISC IV 16 00 25 15.5–.51 21.27S–.04 68.92W–.04 110–4 4.8b 108 1-173
GUC IV 16 00 25 14.8–.35 21.32S 69.20W 122–2 4.5L **¶16577841**
BJI IV 16 00 25 14.4 21.20S 68.81W 103 5.2b
SJA IV 16 00 25 14.3–.82 21.34S 68.83W 203–32 3.8W,3.7L
ISCJB IV 16 00 25 14.8–.26 21.38S–.03 68.92W–.04 118–3 4.8b,3.7L
NEIC IV 16 00 25 15.6–.46 21.32S 68.71W 110–4 4.8b,4.3W
IDC IV 16 00 25 16.4–.82 21.31S 68.73W 120–5 4.2,4.0
SCB IV 16 00 25 22.5–.40 20.56S 67.98W 125 3.5L,4.0
ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
SJA Error ellipse: s-maj=10.3km s-min=17.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=146.7.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.8km az=86.0. Moment Tensor Solution.
s8 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.94 $M_{\theta\theta}$-1.36 $M_{\phi\phi}$3.30 $M_{r\theta}$1.78 $M_{\theta\phi}$0.57 $M_{\phi r}$-1.94
Best double couple: NP1:ϕ_s220.00000°,δ40.00000°,λ-30.00000°. NP2:ϕ_s334.00000°
,δ71.00000°,λ-126.00000°. Principal axes: T 3.9400,Plg18.0000°,Azm90.0000°
; N 0.0000,Plg34.0000°,Azm347.0000°; P -3.9400,Plg50.0000°,Azm203.0000°
$M_0$3.90000×10^{15}
IDC Error ellipse: s-maj=20.5km s-min=17.2km az=32.0.
SCB Event type ke. Error ellipse: s-maj=13.3km s-min=4.1km az=52.0.
ISC IV 17 20 17 22.3–.88 21.12S–.06 67.55W–.05 183–9 33 2-145
IDC IV 17 20 16 53.9–2.2 23.09S 68.00W 0 4.0,4.0L **¶16648921**
ISCJB IV 17 20 17 22.3–.56 21.15S–.05 67.61W–.05 187–7 3.3b,4.0L
GUC IV 17 20 17 23.5–.51 21.09S 67.84W 193–8 3.2L,4.0L
SJA IV 17 20 17 23.0–1.5 20.94S 66.99W 220–21 3.1W,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=57.0km s-min=48.8km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.8km az=41.7.
GUC Error ellipse: s-maj=2.0km s-min=9.1km az=-1.0.
SJA Error ellipse: s-maj=11.0km s-min=25.9km az=-1.0.
IDC IV 19 01 45 04.2–2.5 21.19S 68.21W 164–23 3.8,3.6b
¶17201459
IDC Error ellipse: s-maj=110.4km s-min=20.6km az=92.0.
IDC IV 19 06 47 41.4–8.0 21.19S 67.40W 282–53 3.6,3.1
¶17201476
IDC Error ellipse: s-maj=102.0km s-min=32.8km az=25.0.
ISC IV 19 13 01 00.9–.94 20.16S–.04 68.97W–.10 116–8 3.7b 23 0-90
ISCJB IV 19 13 01 00.7–.63 20.16S–.03 69.00W–.09 120–6 3.6b **¶17201502**
GUC IV 19 13 01 01.2–.60 20.14S 68.97W 107–3 3.8L
IDC IV 19 13 01 03.5–2.5 20.03S 68.51W 140–24 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=5.5km az=3.1.
GUC Error ellipse: s-maj=1.4km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=47.0km s-min=22.2km az=101.0.
IDC IV 20 14 13 11.8–2.6 21.26S 67.45W 163–26 3.6,3.5b
¶17201622
IDC Error ellipse: s-maj=29.4km s-min=23.1km az=79.0.
ISC IV 20 14 43 57.9–1.2 21.13S–.05 68.1W–.10 191–12 31 1-145
ISCJB IV 20 14 43 57.4–.82 21.14S–.04 68.2W–.10 201–11 3.8b **¶17201623**
GUC IV 20 14 43 57.6–.70 21.14S 68.19W 190–6 3.9L
IDC IV 20 14 44 02.0–6.7 20.76S 67.35W 195–49 4.1,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.9km s-min=6.3km az=3.4.
GUC Error ellipse: s-maj=2.0km s-min=7.8km az=-1.0.
IDC Error ellipse: s-maj=73.0km s-min=26.7km az=13.0.
ISC IV 20 21 55 46.5–1.0 21.12S–.04 68.7W–.10 140–9 28 1-145
IDC IV 20 21 55 44.6–3.0 21.22S 68.22W 118–27 4.1,3.8 **¶17201644**
ISCJB IV 20 21 55 45.7–.72 21.14S–.04 68.7W–.10 146–7 3.8b,3.8
GUC IV 20 21 55 45.8–.69 21.10S 68.64W 135–5 4.0L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=51.9km s-min=25.0km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=5.8km az=0.4.
GUC Error ellipse: s-maj=2.1km s-min=6.9km az=-1.0.
ISC IV 23 16 56 48.0–.81 22.13S–.06 67.32W–.04 179–8 3.4b 34 2-145
ISCJB IV 23 16 56 47.5–.43 22.13S–.05 67.36W–.04 184–5 3.4b **¶16649266**
GUC IV 23 16 56 48.9–.44 22.10S 67.81W 219–7 4.0L
SJA IV 23 16 56 49.5–.87 22.12S 66.83W 211–12 3.0L,2.9W
IDC IV 23 16 56 52.4–3.1 21.75S 66.86W 209–25 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.7km az=22.3.
GUC Error ellipse: s-maj=2.8km s-min=7.2km az=-1.0.
SJA Error ellipse: s-maj=11.3km s-min=20.3km az=-1.0.
IDC Error ellipse: s-maj=38.8km s-min=16.2km az=43.0.
GUC IV 24 06 59 43.1–.66 21.19S 68.98W 128–4 3.8L
¶601517202
GUC Error ellipse: s-maj=1.7km s-min=5.9km az=-1.0.
ISC IV 27 08 00 37.5–.83 20.57S–.04 68.10W–.08 169–10 29 1-91
ISCJB IV 27 08 00 37.0–.55 20.59S–.03 68.11W–.07 174–8 3.4b **¶17202217**
IDC IV 27 08 00 37.2–.84 20.57S 67.87W 158–12 3.6,3.3
GUC IV 27 08 00 37.6–.63 20.59S 68.46W 193–6 3.6L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.7km az=3.7.
IDC Error ellipse: s-maj=25.7km s-min=9.7km az=100.0.
GUC Error ellipse: s-maj=2.1km s-min=8.0km az=-1.0.
GUC IV 27 14 38 30.9–.66 21.69S 68.86W 107–5 3.7L
¶601517242
GUC Error ellipse: s-maj=2.5km s-min=7.9km az=-1.0.
ISC IV 27 16 14 01.0–.47 20.38S–.03 68.82W–.05 118–4 4.3b 110 1-168
SCB IV 27 16 13 59.8–.47 20.25S 68.60W 123 4.0L **¶16463993**
ISCJB IV 27 16 14 00.5–.25 20.43S–.02 68.83W–.04 121–2 4.2b
NEIC IV 27 16 14 00.2–.43 20.37S 68.60W 106–4 4.3b
IDC IV 27 16 14 01.4–.50 20.41S 68.56W 120–4 4.3,4.1
GUC IV 27 16 14 01.2–.42 20.41S 69.03W 125–3 4.3L,4.1
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=14.8km s-min=3.8km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=166.4.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.4km az=84.0.
IDC Error ellipse: s-maj=18.0km s-min=8.1km az=97.0.
GUC Error ellipse: s-maj=1.2km s-min=4.5km az=-1.0.
GUC IV 29 08 46 30.7–.60 21.08S 68.56W 161–5 3.6L
¶601517258
GUC Error ellipse: s-maj=3.7km s-min=7.0km az=-1.0.
GUC IV 30 16 42 33.1–.34 21.81S 68.70W 131–2 3.5L
¶601517269
GUC Error ellipse: s-maj=1.5km s-min=3.1km az=-1.0.
ISC IV 30 23 54 35.9–1.1 21.08S–.04 68.8W–.10 139–11 24 1-145
ISCJB IV 30 23 54 35.4–.79 21.09S–.04 68.8W–.10 143–11 3.2b **¶17202486**
GUC IV 30 23 54 35.7–.69 21.08S 68.80W 138–6 3.3L
IDC IV 30 23 54 38.1–8.8 21.02S 68.45W 149–67 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=6.2km az=0.9.
GUC Error ellipse: s-maj=1.9km s-min=7.7km az=-1.0.
IDC Error ellipse: s-maj=123.2km s-min=76.3km az=87.0.
GUC V 01 15 52 49.0–.35 22.98S 67.26W 247–13 3.6L
¶601517282
GUC Error ellipse: s-maj=4.2km s-min=11.6km az=-1.0.
ISC V 02 20 45 19.6–.83 21.80S–.05 68.33W–.08 120–8 3.9b 27 1-146
ISCJB V 02 20 45 19.7–.63 21.82S–.04 68.51W–.10 135–7 3.7b **¶17202642**
IDC V 02 20 45 19.8–.78 21.91S 68.09W 114–9 4.0,3.8
GUC V 02 20 45 20.5–.72 21.79S 68.69W 141–7 4.0L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=7.3km az=173.9.
IDC Error ellipse: s-maj=34.7km s-min=14.6km az=125.0.
GUC Error ellipse: s-maj=3.5km s-min=7.8km az=-1.0.
ISC V 04 05 09 25.8–1.1 21.16S–.05 68.6W–.10 138–10 21 1-91
ISCJB V 04 05 09 25.3–.75 21.16S–.04 68.6W–.10 142–8 3.3b **¶17202729**

GUC V 04 05 09 25.6–.37 21.11S 68.61W 136–3 3.6L
IDC V 04 05 09 25.4–1.1 21.23S 68.16W 129–15 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=6.9km az=179.2.
GUC Error ellipse: s-maj=1.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=38.3km s-min=18.2km az=113.0.
ISC V 05 07 41 08.0–3.8 22.1S–.10 67.9W–.30 200 12 1-3
GUC V 05 07 41 06.8–.42 22.08S 67.88W 201–7 3.7L **¶601517335**
ISC Event type ke.
GUC Error ellipse: s-maj=5.0km s-min=10.7km az=-1.0.
ISC V 06 13 12 33.9–.83 22.39S–.04 67.51W–.04 161–7 3.7b 46 1-133
ISCJB V 06 13 12 33.3–.45 22.40S–.04 67.54W–.03 162–5 3.7b **¶16709021**
IDC V 06 13 12 33.2–1.4 22.44S 67.29W 147–17 4.1,3.8
GUC V 06 13 12 35.1–.57 22.35S 68.01W 197–6 3.8L,3.8
SJA V 06 13 12 37.2–.89 22.48S 67.43W 100 2.6W,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.2km az=33.2.
IDC Error ellipse: s-maj=29.8km s-min=15.9km az=116.0.
GUC Error ellipse: s-maj=2.5km s-min=6.5km az=-1.0.
SJA Error ellipse: s-maj=5.5km s-min=3.6km az=-1.0.
ISC V 06 23 30 34.1–.56 21.94S–.03 68.42W–.04 115–5 4.6b 151 1-169
SJA V 06 23 30 30.8–.33 21.90S 68.62W 137–2 3.2L,3.0W **¶16498392**
IDC V 06 23 30 33.1–.74 21.91S 68.27W 105–7 4.4,4.2
GUC V 06 23 30 33.5–.64 21.94S 68.57W 129–4 4.4L,4.2
ISCJB V 06 23 30 33.6–.22 21.98S–.02 68.45W–.03 123–2 4.7b,4.2
NEIC V 06 23 30 34.2–.34 21.93S 68.29W 113–3 4.5b,4.2
SCB V 06 23 30 39.4–1.2 21.24S 67.62W 148 3.7L,4.2
ISC Event type ke.
SJA Error ellipse: s-maj=3.0km s-min=2.2km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=13.6km az=101.0.
GUC Error ellipse: s-maj=1.8km s-min=5.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.3km az=153.3.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=81.0.
SCB Event type ke. Error ellipse: s-maj=37.9km s-min=10.9km az=43.0.
SJA V 09 19 29 41.0–.75 22.92S 67.11W 283–20 4.0W,3.0L
¶16988469
SJA Error ellipse: s-maj=14.0km s-min=22.8km az=-1.0.
ISC V 11 02 30 04.5–.35 20.17S–.03 68.72W–.04 124–2 4.4b 419 0-167
ISCJB V 11 02 30 03.0–.24 20.18S–.03 68.71W–.03 124–2 4.5b **¶16577265**
SCB V 11 02 30 03.5–.42 20.06S 68.51W 116 4.5L
NEIC V 11 02 30 04.9–.23 20.16S 68.47W 122 4.5b
IDC V 11 02 30 05.0–.48 20.13S 68.51W 125–3 4.6,4.3
GUC V 11 02 30 05.4–.69 20.22S 68.89W 109–5 4.8L,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=155.9.
SCB Event type ke. Error ellipse: s-maj=13.8km s-min=3.3km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.4km az=66.0. Felt [III] at Pica and [II] at Alto Hospicio, Camina, Huara, Iquique, Pisagua, Pozo Almonte and Quillagua, Chile.
IDC Error ellipse: s-maj=14.5km s-min=10.9km az=67.0.
GUC Error ellipse: s-maj=2.5km s-min=5.7km az=-1.0.
ISC V 12 11 17 43.9–2.4 21.01S–.08 67.47W–.07 213–23 20 2-4
SJA V 12 11 17 40.7–.45 21.03S 68.10W 129–121 3.1W,2.9L **¶16988532**
ISCJB V 12 11 17 44.6–1.3 21.06S–.08 67.53W–.07 206–15 3.1W,2.9L
GUC V 12 11 17 46.2–.54 20.93S 67.75W 209–9 3.4L,2.9L
ISC Event type ke.
SJA Error ellipse: s-maj=24.8km s-min=49.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.4km az=40.6.
GUC Error ellipse: s-maj=4.0km s-min=10.0km az=-1.0.
ISC V 13 03 34 27.6–.72 21.81S–.05 67.27W–.05 186–7 3.8b 48 2-145
ISCJB V 13 03 34 26.9–.36 21.84S–.04 67.36W–.04 195–4 3.7b **¶16709746**
IDC V 13 03 34 26.8–.75 21.81S 67.12W 174–8 4.0,3.7
GUC V 13 03 34 28.5–.65 21.80S 67.78W 218–8 4.2L,3.7
SJA V 13 03 34 30.4–.79 21.99S 67.26W 160–11 3.5W,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.3km az=42.1.
IDC Error ellipse: s-maj=14.7km s-min=11.4km az=128.0.
GUC Error ellipse: s-maj=3.0km s-min=9.4km az=-1.0.
SJA Error ellipse: s-maj=13.0km s-min=3.4km az=-1.0.
GUC V 13 04 38 49.6–.62 21.97S 67.87W 210–7 3.5L
¶601517408
GUC Error ellipse: s-maj=3.3km s-min=8.5km az=-1.0.
ISC V 20 21 57 03.9–.97 21.13S–.04 68.6W–.10 112–8 4.2b 38 1-145
ISCJB V 20 21 57 02.6–.68 21.12S–.03 68.47W–.10 113–7 4.3b **¶16684775**
IDC V 20 21 57 03.4–1.1 21.39S 67.92W 119–12 4.3,4.0
GUC V 20 21 57 04.6–.59 21.13S 68.71W 107–5 4.0L,4.0
NEIC V 20 21 57 04.0 21.13S 68.71W 107 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=5.1km az=178.3.
IDC Error ellipse: s-maj=38.4km s-min=16.0km az=122.0.
GUC Error ellipse: s-maj=1.7km s-min=5.8km az=-1.0.
NEIC Event type se. After GUC.
ISC V 22 13 01 26.8–1.1 21.41S–.04 68.6W–.10 134–10 26 1-145
ISCJB V 22 13 01 26.2–.80 21.42S–.04 68.6W–.10 134–10 3.4b **¶17204226**
IDC V 22 13 01 26.4–1.2 21.55S 67.93W 110–20 3.8,3.4
GUC V 22 13 01 26.0–.64 21.39S 68.56W 131–5 3.2L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=6.1km az=179.5.
IDC Error ellipse: s-maj=57.4km s-min=18.8km az=119.0.
GUC Error ellipse: s-maj=1.8km s-min=5.7km az=-1.0.
ISC V 24 09 35 29.8–.73 21.10S–.04 68.50W–.08 114–7 4.1b 37 1-145
ISCJB V 24 09 35 29.0–.43 21.13S–.03 68.49W–.08 123–5 4.1b **¶16710798**
IDC V 24 09 35 29.9–1.1 21.09S 68.36W 111–11 4.4,4.1
NEIC V 24 09 35 30.0 21.11S 68.73W 122 4.0,4.1
GUC V 24 09 35 30.9–.46 21.11S 68.73W 122–3 4.0L,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.6km az=177.8.
IDC Error ellipse: s-maj=19.5km s-min=12.7km az=103.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=4.4km az=-1.0.
ISC VI 01 00 14 36.9–.56 21.59S–.04 68.55W–.05 107–5 4.3b 82 1-146
ISCJB VI 01 00 14 36.2–.28 21.63S–.03 68.60W–.05 114–3 4.4b **¶16577364**
SJA VI 01 00 14 36.7–.70 21.65S 68.66W 109–10 4.1W,3.6L
NEIC VI 01 00 14 38.0 21.61S 68.82W 108 4.6b,3.6L
GUC VI 01 00 14 38.1–.56 21.62S 68.81W 108–4 4.4L,3.6L
IDC VI 01 00 14 38.0–.54 21.83S 68.49W 113–5 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=163.3.
SJA Error ellipse: s-maj=11.9km s-min=12.2km az=-1.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=12.3km az=115.0.
ISC VI 04 07 09 06.0–.68 22.07S–.06 67.23W–.05 180 3.9b 34 2-145
ISCJB VI 04 07 09 05.7–.47 22.10S–.04 67.26W–.06 180 3.9b **¶16856256**
IDC VI 04 07 09 05.6–.73 22.10S 67.21W 179–9 4.1,3.7
SCB VI 04 07 09 06.0–.72 21.78S 67.12W 175 3.7L,3.7
SJA VI 04 07 09 06.1–.85 22.12S 67.22W 176–8 3.4L,3.3W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.3km az=150.6.
IDC Error ellipse: s-maj=15.8km s-min=14.5km az=140.0.
SCB Event type ke. Error ellipse: s-maj=18.9km s-min=7.9km az=30.0.
SJA Error ellipse: s-maj=6.1km s-min=3.4km az=-1.0.
GUC VI 07 15 59 41.2–.47 22.24S 67.89W 195–7 3.5L
¶601517717
GUC Error ellipse: s-maj=2.7km s-min=7.5km az=-1.0.
ISC VI 08 03 55 56.4–.45 21.45S–.04 68.32W–.04 134–4 4.5b 401 1-148
SJA VI 08 03 55 53.9–.54 21.47S 68.44W 148–6 4.2W,3.8L **¶16684512**
ISCJB VI 08 03 55 54.2–.36 21.30S–.04 68.14W–.04 125–3 4.6b,3.8L
NEIC VI 08 03 55 56.8–.21 21.41S 68.07W 134 4.6b,3.8L
IDC VI 08 03 55 56.5–.39 21.57S 68.25W 134–4 4.5,4.2
SCB VI 08 03 55 57.1–.50 21.14S 68.03W 124 4.1L,4.2
ISC Event type ke.
SJA Error ellipse: s-maj=9.6km s-min=4.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=139.5.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.0km az=58.0.
IDC Error ellipse: s-maj=12.8km s-min=7.9km az=105.0.
SCB Event type ke. Error ellipse: s-maj=13.7km s-min=5.3km az=40.0.
GUC VI 08 17 17 24.4–.44 22.95S 67.08W 262–17 4.0L
¶601517723
GUC Error ellipse: s-maj=6.0km s-min=13.8km az=-1.0.
ISC VI 09 07 44 19.7–1.2 22.2S–.10 67.31W–.07 200 10 2-145
IDC VI 09 07 44 18.8–2.3 22.35S 66.95W 149–27 4.0b,3.8 **¶16856748**
ISCJB VI 09 07 44 19.5–.73 22.3S–.10 67.37W–.07 200 4.0b,3.8
SJA VI 09 07 44 19.2–.78 21.94S 66.30W 255–41 3.5W,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=58.0km s-min=22.0km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=9.0km az=13.1.
SJA Error ellipse: s-maj=22.0km s-min=147.5km az=-1.0.
GUC VI 09 12 45 18.6–.79 20.44S 68.83W 116–5 3.5L
¶601517726
GUC Error ellipse: s-maj=2.7km s-min=7.0km az=-1.0.
ISC VI 11 20 29 41.3–1.1 21.92S–.05 68.7W–.10 119–9 19 1-146
ISCJB VI 11 20 29 40.2–.87 21.91S–.06 68.7W–.10 128–9 3.4b **¶17205793**
IDC VI 11 20 29 40.7–1.2 22.12S 68.11W 102–21 3.6,3.5b
GUC VI 11 20 29 41.0–.51 21.84S 68.79W 126–4 3.7L,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=9.1km az=3.3.
IDC Error ellipse: s-maj=64.7km s-min=25.7km az=122.0.
GUC Error ellipse: s-maj=2.3km s-min=5.1km az=-1.0.
GUC VI 12 23 04 59.4–.47 21.88S 68.59W 123–3 3.8L
¶601517767
GUC Error ellipse: s-maj=1.6km s-min=3.4km az=-1.0.
ISC VI 14 06 10 14.7–.85 21.31S–.03 68.93W–.08 102–8 3.5b 32 1-91
ISCJB VI 14 06 10 14.3–.51 21.32S–.03 68.97W–.09 112–6 3.5b **¶17206089**
GUC VI 14 06 10 15.1–.58 21.32S 69.00W 99–3 4.0L
IDC VI 14 06 10 15.2–1.2 21.31S 68.75W 102–15 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=4.5km az=178.7.
GUC Error ellipse: s-maj=1.2km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=32.3km s-min=17.2km az=106.0.
ISC VI 16 23 26 16.9–.85 20.70S–.03 68.92W–.08 102–9 33 1-145
ISCJB VI 16 23 26 17.3–.58 20.70S–.03 69.03W–.09 115–7 3.8b **¶17206354**
GUC VI 16 23 26 17.7–.58 20.70S 68.98W 98–3 3.9L
IDC VI 16 23 26 18.8–.96 20.73S 68.49W 110–14 3.9,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=4.2km az=178.1.
GUC Error ellipse: s-maj=1.0km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=36.3km s-min=9.7km az=99.0.
ISC VI 18 12 27 58.5–.69 21.89S–.04 68.44W–.05 112–6 4.5b 99 1-146
SJA VI 18 12 27 36.1–.53 22.49S 70.51W 306–66 4.0W,4.0L **¶16989450**
ISCJB VI 18 12 27 57.9–.34 21.93S–.03 68.44W–.04 116–3 4.4b,4.0L
IDC VI 18 12 27 58.1–.75 21.76S 68.39W 103–9 4.5,4.3
NEIC VI 18 12 27 58.4–.46 21.91S 68.32W 106–4 4.5b,4.3
GUC VI 18 12 27 59.6–.39 21.87S 68.71W 122–3 4.5L,4.3
SCB VI 18 12 28 04.1–.18 21.28S 68.04W 100 3.5L,4.3
ISC Event type ke.
SJA Error ellipse: s-maj=16.1km s-min=32.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.4km az=155.6.
IDC Error ellipse: s-maj=19.1km s-min=14.1km az=142.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.1km az=48.0.
GUC Error ellipse: s-maj=1.9km s-min=3.8km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=4.7km s-min=1.9km az=45.0.
ISC VI 20 16 36 00.9–.18 21.77S–.02 68.38W–.03 126–1 6.0b 2279 1-178
SJA VI 20 16 35 53.9–.99 21.59S 68.47W 226–46 6.1L **¶16638810**
SCB VI 20 16 35 55.6–.57 21.88S 68.25W 117 5.8L
ISCJB VI 20 16 35 57.8–.24 21.71S–.02 68.40W–.02 112–2 6.0b
BJI VI 20 16 35 57.5 21.80S 68.30W 100 6.3b
GUC VI 20 16 35 59.0–.71 21.87S 68.67W 129–6 6.4L
MOS VI 20 16 36 00.7–1.2 21.61S 68.50W 129 6.0b,5.8s
GCMT VI 20 16 36 01.2–.10 21.89S 68.63W 131–0 6.5W,5.8s
IDC VI 20 16 36 01.4–.25 21.67S 68.27W 126–1 5.9,5.6
NEIC VI 20 16 36 01.0–.00 21.70S 68.23W 128 5.9,5.6
NEIC VI 20 16 36 01.2–.11 21.70S 68.23W 128 6.5W,6.4W
CASC VI 20 16 36 03.0–2.5 21.70S 68.23W 128 6.0b,6.4W
ISC Event type fe.
SJA Error ellipse: s-maj=12.2km s-min=23.9km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=15.6km s-min=4.3km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=41.8.
GUC Error ellipse: s-maj=2.6km s-min=7.4km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=5.5km az=101.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c350; s136,c502;Duration: 4s5 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.30±.04 $M_{\theta\theta}$-0.35±.04; $M_{\phi\phi}$0.65±.05; $M_{r\theta}$-0.02±.03; $M_{\theta\phi}$1.50±.04; $M_{\phi r}$-7.58±.03; Best double couple: NP1:ϕ_s360.00000°,δ88.00000°,λ-101.00000°. NP2:ϕ_s261.00000°,δ11.00000°,λ-9.00000°. Principal axes: T 7.9220,Plg42.0000°,Azm100.0000° ; N -0.3600,Plg11.0000°,Azm0.0000°; P -7.5610,Plg46.0000°,Azm258.0000° $M_0$7.74200×10^{18}
IDC Error ellipse: s-maj=7.8km s-min=5.7km az=78.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.20 $M_{\theta\theta}$-0.37 $M_{\phi\phi}$0.57 $M_{r\theta}$-0.59 $M_{\theta\phi}$0.37 $M_{\phi r}$-5.22 Best double couple: NP1:ϕ_s6.00000°,δ88.00000°,λ-92.00000°. NP2:ϕ_s238.00000°,δ4.00000°,λ-38.00000°. Principal axes: T 5.5000,Plg42.0000°,Azm98.0000°; N -0.4400,Plg2.0000°,Azm6.0000° ; P -5.0600,Plg47.0000°,Azm273.0000° $M_0$5.30000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=63.0. Felt [VI] at Alto Hospicio, Iquique and Pica; [V] at Calama, Huara, Pozo Almonte, Quillagua and Tocopilla; [IV] at Camina and Maria Elena; [III] at Antofagasta, Arica, Caldera, Chanaral, Codpa, Copiapo, Mejillones, Poconchile, San Pedro de Atacama, Taltal and Tierra Amarilla; [II] at Cuya, Los Loros and Putre. Also felt at Buin. Felt [IV] at Arequipa and [II] at Tacna, Peru. Also felt at Moquegua. Felt at Potosi, Bolivia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.10000×10^{19} Moment Tensor Solution. s38 Moment tensor: Scale 10^{18}Nm; M_{rr}1.82 $M_{\theta\theta}$-0.84 $M_{\phi\phi}$-0.98 $M_{r\theta}$-1.83 $M_{\theta\phi}$2.03 $M_{\phi r}$-5.82 Best double couple: NP1:ϕ_s188.00000°,δ84.00000°,λ109.00000°. NP2:ϕ_s295.00000°,δ19.00000°,λ18.00000°. Principal axes: T 7.2900,Plg48.0000°,Azm118.0000°; N -1.6800,Plg18.0000°,Azm6.0000° ; P -5.6100,Plg37.0000°,Azm262.0000° $M_0$6.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s298.00000°,δ16.00000°,λ19.00000°. NP2:ϕ_s190.00000°,δ85.00000°,λ105.00000°. Principal axes: T Plg48.0000°,Azm116.0000° ; N Plg0.0000°,Azm0.0000°; P Plg38.0000°,Azm267.0000°
CASC Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
GUC VI 20 17 54 14.0–.71 21.87S 68.66W 132–6 3.7L
¶601517834
GUC Error ellipse: s-maj=2.3km s-min=7.8km az=-1.0.
ISC VI 20 20 33 51.4–1.1 21.85S–.06 68.5W–.10 123–12 4.1b 21 1-92
ISCJB VI 20 20 33 51.1–.74 21.89S–.06 68.6W–.10 132–10 3.9b **¶17206624**
GUC VI 20 20 33 51.3–.53 21.87S 68.59W 124–5 4.0L
IDC VI 20 20 33 55.0–5.7 21.69S 68.18W 142–44 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.2km s-min=8.8km az=9.9.
GUC Error ellipse: s-maj=2.2km s-min=6.6km az=-1.0.
IDC Error ellipse: s-maj=66.0km s-min=38.7km az=43.0.
ISC VI 20 23 24 49.5–.76 21.89S–.05 68.30W–.07 111–7 4.1b 30 1-146
ISCJB VI 20 23 24 49.3–.56 21.90S–.04 68.40W–.08 122–6 3.9b **¶17206638**
IDC VI 20 23 24 49.9–.81 21.87S 68.32W 110–8 4.0,3.8
GUC VI 20 23 24 50.8–.57 21.89S 68.61W 125–5 4.1L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=7.0km az=176.1.
IDC Error ellipse: s-maj=22.8km s-min=18.1km az=115.0.
GUC Error ellipse: s-maj=2.1km s-min=5.4km az=-1.0.
GUC VI 21 01 57 33.6–.37 21.81S 68.70W 131–3 3.6L
¶601517838
GUC Error ellipse: s-maj=1.4km s-min=3.3km az=-1.0.
ISC VI 21 14 11 36.5–1.1 21.80S–.05 68.5W–.10 123–11 4.0b 25 1-133
GUC VI 21 14 11 36.6–.63 21.81S 68.72W 133–4 3.9L **¶17206681**

IDC VI 21 14 11 40.7–6.7 21.43S 68.30W 148–54 4.0,3.8b
ISC Event type ke.
GUC Error ellipse: s-maj=1.9km s-min=5.9km az=-1.0.
IDC Error ellipse: s-maj=57.1km s-min=37.5km az=2.0.
ISC VI 22 22 20 54.5–.79 21.89S–.05 68.38W–.08 114–8 4.1b 28 1-146
ISCJB VI 22 22 20 53.7–.56 21.88S–.04 68.34W–.10 118–10 4.1b **¶17206785**
GUC VI 22 22 20 54.5–.65 21.83S 68.52W 124–6 3.8L
IDC VI 22 22 20 54.3–.73 21.97S 68.19W 103–10 4.2,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.4km az=179.9.
GUC Error ellipse: s-maj=2.5km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=31.0km s-min=17.9km az=127.0.
GUC VI 24 09 58 05.5–.51 21.81S 68.90W 131–5 3.3L
¶601517859
GUC Error ellipse: s-maj=1.6km s-min=7.5km az=-1.0.
ISC VI 25 04 07 11.5–.88 21.27S–.04 68.8W–.10 121–9 24 1-145
ISCJB VI 25 04 07 11.1–.62 21.29S–.04 68.9W–.10 130–7 3.6b **¶17206902**
IDC VI 25 04 07 12.0–1.0 21.37S 68.32W 110–15 3.8,3.5b
GUC VI 25 04 07 11.9–.54 21.26S 68.92W 122–3 3.9L,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=6.0km az=0.8.
IDC Error ellipse: s-maj=51.4km s-min=15.4km az=108.0.
GUC Error ellipse: s-maj=1.4km s-min=4.4km az=-1.0.
ISC VI 26 03 13 44.5–1.1 21.83S–.05 68.50W–.09 115–11 22 1-77
ISCJB VI 26 03 13 45.4–.90 21.86S–.05 68.7W–.10 132–9 2.9b **¶17206956**
IDC VI 26 03 13 45.4–1.3 22.11S 67.94W 101–15 3.4,3.3
GUC VI 26 03 13 46.0–.63 21.85S 68.63W 114–4 3.1L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=8.2km az=179.9.
IDC Error ellipse: s-maj=37.4km s-min=22.4km az=141.0.
GUC Error ellipse: s-maj=1.9km s-min=4.9km az=-1.0.
ISC VI 26 23 32 30.3–.96 21.5S–.10 68.2W–.20 121 9 1-145
ISCJB VI 26 23 32 29.5–.77 21.5S–.10 68.1W–.10 121 3.7b **¶17207030**
IDC VI 26 23 32 30.2–.94 21.40S 68.10W 100–13 3.9,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=7.7km az=36.0.
IDC Error ellipse: s-maj=40.4km s-min=12.9km az=119.0.
ISC VI 27 00 56 38.9–.62 22.27S–.04 67.44W–.04 171–5 4.5b 369 1-164
SCB VI 27 00 56 36.8–.83 22.13S 67.27W 150 4.4L **¶16683842**
ISCJB VI 27 00 56 38.2–.24 22.31S–.02 67.56W–.03 181–2 4.4b
NEIC VI 27 00 56 38.2–.58 22.29S 67.34W 160–5 4.5b
BJI VI 27 00 56 38.8 22.30S 67.40W 163 4.9b
SJA VI 27 00 56 38.4–3.3 22.24S 67.37W 203–97 4.2L,4.1W
IDC VI 27 00 56 38.6–.70 22.13S 67.39W 161–7 4.5,4.2
GUC VI 27 00 56 39.8–.29 22.27S 67.85W 189–3 5.0L,4.2
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=19.5km s-min=10.5km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=151.6.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.4km az=57.0.
SJA Error ellipse: s-maj=19.5km s-min=67.9km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.9km az=138.0.
GUC Error ellipse: s-maj=1.9km s-min=3.2km az=-1.0.
ISC VI 27 06 08 19.2–.78 21.75S–.05 67.11W–.07 197–9 44 2-145
SCB VI 27 06 08 15.5–.41 21.60S 66.74W 215 3.9L **¶17207053**
IDC VI 27 06 08 18.9–.92 21.81S 66.99W 186–13 4.1,4.0b
GUC VI 27 06 08 19.7–.56 21.76S 67.66W 238–7 4.4L,4.0b
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=10.1km s-min=4.9km az=15.0.
IDC Error ellipse: s-maj=23.2km s-min=12.9km az=113.0.
GUC Error ellipse: s-maj=3.0km s-min=9.1km az=-1.0.
GUC VI 30 07 13 31.1–.56 21.74S 68.74W 121–4 3.7L
¶601517935
GUC Error ellipse: s-maj=2.0km s-min=5.1km az=-1.0.

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ISC I 07 04 55 58.3–.34 21.83S–.03 65.44W–.04 304–3 5.1b 1005 1-171
SCB I 07 04 55 50.7–.60 21.50S 65.12W 315 5.0L **¶15908420**
ISCJB I 07 04 55 56.1–.26 21.70S–.02 65.41W–.03 290–2 5.0b
NEIC I 07 04 55 57.3–.47 21.78S 65.34W 290–4 5.1b
BJI I 07 04 55 57.6 21.80S 65.30W 283 5.4b
MOS I 07 04 55 57.3–1.0 21.74S 65.42W 302 5.0b
IDC I 07 04 55 58.3–.46 21.81S 65.42W 302–3 5.1,4.6
GUC I 07 04 55 58.2–.25 21.87S 65.87W 290 6.8L,5.7W
SJA I 07 04 55 58.3–1.2 21.87S 65.55W 303–15 5.1L,4.8W
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=74.5km s-min=12.9km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=142.7.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.7km az=59.0. Felt at Antofagasta, Chile.
MOS Error ellipse: s-maj=15.7km s-min=8.0km az=116.2.
IDC Error ellipse: s-maj=9.7km s-min=8.0km az=57.0.
GUC Error ellipse: s-maj=5.9km s-min=4.2km az=-1.0.
SJA Error ellipse: s-maj=6.0km s-min=8.6km az=-1.0.
GUC I 09 02 26 44.0–.31 20.67S 67.95W 236–6 3.5L
¶601516086
GUC Error ellipse: s-maj=1.7km s-min=8.8km az=-1.0.
ISC I 18 15 00 18.1–.74 20.48S–.05 67.85W–.07 157–7 4.1b 43 2-152
ISCJB I 18 15 00 17.2–.47 20.50S–.04 67.85W–.07 164–6 3.9b **¶17190484**
IDC I 18 15 00 18.1–.74 20.52S 67.72W 156–7 4.2,3.8
GUC I 18 15 00 19.2–.37 20.55S 68.32W 186–4 4.4L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.1km az=175.2.
IDC Error ellipse: s-maj=13.8km s-min=8.7km az=110.0.
GUC Error ellipse: s-maj=1.3km s-min=5.6km az=-1.0.
IDC I 18 21 50 47.5–8.7 20.88S 67.32W 211–60 3.5,3.1
¶17190507
IDC Error ellipse: s-maj=100.9km s-min=32.8km az=21.0.
ISC I 19 23 54 17.4–1.1 21.39S–.06 66.77W–.05 207 27 1-144
IDC I 19 23 54 16.6–1.2 21.47S 66.68W 213–20 4.0,3.6b **¶17190584**
SJA I 19 23 54 17.4–.44 21.41S 66.56W 226–8 3.0W,2.7L
GUC I 19 23 54 17.8–.49 21.37S 67.23W 263–12 4.1L,2.7L
ISCJB I 19 23 54 18.0–.48 21.42S–.05 66.82W–.04 207 3.7b,2.7L
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 03 33 24.1–1.1 20.18S–.06 65.1W–.10 10 11 2-74
ISCJB I 30 03 33 23.1–.59 20.22S–.04 65.16W–.07 10 3.8b **¶17191287**
IDC I 30 03 33 23.0–1.6 20.13S 65.10W 0 3.9b,3.7
SJA I 30 03 33 58.9–1.0 22.80S 64.96W 33 3.3W,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.4km az=179.5.
IDC Error ellipse: s-maj=31.3km s-min=20.0km az=41.0.
SJA Error ellipse: s-maj=5.0km s-min=7.3km az=-1.0.
ISC II 07 09 48 47.1–.64 21.33S–.06 66.61W–.07 219 3.5b 26 1-153
ISCJB II 07 09 48 46.8–.42 21.30S–.04 66.60W–.06 219 3.5b **¶17191854**
SJA II 07 09 48 47.6–1.0 21.27S 66.21W 233–9 3.5L,3.3W
IDC II 07 09 48 47.1–.84 21.34S 66.66W 223–8 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.4km az=152.3.
SJA Error ellipse: s-maj=10.8km s-min=28.6km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=10.9km az=102.0.
ISC II 07 21 09 02.8–.56 20.51S–.05 66.73W–.08 248 3.8b 39 2-166
SCB II 07 21 08 59.3–.53 20.12S 66.31W 255 3.8L **¶17191879**
ISCJB II 07 21 09 01.7–.43 20.51S–.04 66.68W–.08 248 3.8b
IDC II 07 21 09 02.1–.94 20.38S 66.63W 230–9 4.3,3.9
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=45.8km s-min=12.4km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=4.7km az=168.0.
IDC Error ellipse: s-maj=14.1km s-min=10.6km az=84.0.
ISC II 14 05 49 24.8–.75 20.57S–.06 67.92W–.08 172 3.5b 19 2-91
ISCJB II 14 05 49 23.7–.52 20.56S–.05 67.91W–.06 172 3.4b **¶17192223**
GUC II 14 05 49 26.3–.66 20.66S 68.40W 195–10 3.9L
IDC II 14 05 49 27.7–2.9 20.29S 67.61W 179–20 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.7km az=41.0.
GUC Error ellipse: s-maj=3.8km s-min=14.8km az=-1.0.
IDC Error ellipse: s-maj=32.7km s-min=15.4km az=33.0.
IDC II 14 09 20 54.6–8.8 20.93S 67.99W 148–73 3.6,3.2b
¶17192233
IDC Error ellipse: s-maj=114.6km s-min=78.6km az=88.0.
ISC II 20 17 57 02.9–.74 21.38S–.05 66.67W–.05 227–7 3.2b 44 2-153
SJA II 20 17 57 00.3–.49 21.25S 66.30W 261–8 3.7W,3.3L **¶17192598**
SCB II 20 17 57 01.5–.58 20.91S 66.06W 268 3.6L,3.3L
ISCJB II 20 17 57 02.4–.38 21.37S–.04 66.66W–.04 230–5 3.4b,3.3L
GUC II 20 17 57 03.3–.47 21.41S 67.24W 283–9 4.5L,3.3L
IDC II 20 17 57 04.8–1.4 21.24S 66.50W 238–13 3.7,3.3
ISC Event type ke.
SJA Error ellipse: s-maj=8.3km s-min=12.8km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=74.1km s-min=13.2km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=38.1.
GUC Error ellipse: s-maj=2.0km s-min=9.3km az=-1.0.
IDC Error ellipse: s-maj=17.0km s-min=13.6km az=71.0.
ISC II 28 12 15 25.2–.58 21.08S–.05 66.53W–.05 243 4.0b 46 2-144
SJA II 28 12 15 22.8–.45 20.90S 66.11W 279–8 3.0L **¶17192993**
ISCJB II 28 12 15 24.7–.35 21.06S–.04 66.51W–.04 243 3.6b
IDC II 28 12 15 24.9–1.4 21.08S 66.28W 239–12 4.0,3.6
GUC II 28 12 15 26.9–.52 21.04S 67.00W 264–20 4.7L,3.6
ISC Event type ke.
SJA Error ellipse: s-maj=6.5km s-min=10.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=137.6.
IDC Error ellipse: s-maj=18.7km s-min=13.9km az=92.0.
GUC Error ellipse: s-maj=5.5km s-min=18.4km az=-1.0.
ISC II 28 14 05 36.7–.63 21.93S–.08 63.70W–.09 528 3.9b 30 2-153
SJA II 28 14 05 23.3–.54 22.02S 64.16W 658–9 3.3L **¶17193002**
SCB II 28 14 05 30.1–1.1 20.67S 61.91W 2 3.8L
ISCJB II 28 14 05 36.3–.47 21.95S–.06 63.59W–.09 528 3.7b
IDC II 28 14 05 37.4–1.7 21.90S 63.51W 531–13 4.2,3.4
ISC Event type ke.
SJA Error ellipse: s-maj=16.5km s-min=33.1km az=-1.0.
SCB Event type ke. Error ellipse: s-maj=123.7km s-min=20.7km az=32.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.8km az=11.5.
IDC Error ellipse: s-maj=26.6km s-min=18.1km az=37.0.
ISC II 28 16 57 11.6–1.5 21.42S–.07 66.9W–.10 207 20 2-144
GUC II 28 16 57 11.8–.75 21.49S 67.36W 247–18 3.7L **¶17193008**
IDC II 28 16 57 11.5–3.6 21.25S 66.56W 222–53 3.6,3.2b
ISCJB II 28 16 57 12.2–1.1 21.42S–.06 66.98W–.08 207 3.3b,3.2b
ISC Event type ke.
ISCJB Event type ke.
ISC III 07 03 33 39.8–.88 19.51S–.07 67.4W–.10 211–10 4.0b 26 2-151
ISCJB III 07 03 33 39.4–.55 19.53S–.06 67.46W–.09 223–8 3.7b **¶17193392**
GUC III 07 03 33 41.6–.49 19.54S 67.83W 229–9 4.0L
IDC III 07 03 33 50.3–4.0 18.22S 66.91W 264–20 3.9,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=7.9km az=20.9.
GUC Error ellipse: s-maj=2.6km s-min=10.8km az=-1.0.
IDC Error ellipse: s-maj=79.9km s-min=12.8km az=13.0.
ISC III 17 01 32 01.0–.32 19.84S–.04 66.56W–.05 248 4.7b 539 2-167
SCB III 17 01 31 55.9–.17 19.70S 66.48W 250 4.5L **¶16339101**
BJI III 17 01 31 57.9 20.65S 66.50W 233 4.5L
ISCJB III 17 01 31 59.4–.13 19.89S–.02 66.64W–.04 248 4.6b
NEIC III 17 01 31 59.0–.53 19.85S 66.61W 224–5 4.7b
IDC III 17 01 31 59.2–.93 19.83S 66.52W 227–7 4.8,4.3
GUC III 17 01 32 00.3–.28 20.03S 67.19W 248–5 5.1L,4.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=8.5km s-min=3.8km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=2.6km az=160.2.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=61.0.
IDC Error ellipse: s-maj=13.6km s-min=8.1km az=71.0.
GUC Error ellipse: s-maj=1.6km s-min=6.0km az=-1.0.
ISC III 19 21 33 56.6–.69 19.01S–.06 67.25W–.10 246 3.4b 17 3-151
ISCJB III 19 21 33 55.7–.57 18.98S–.05 67.2W–.10 246 3.4b **¶17197333**
IDC III 19 21 33 55.7–1.3 18.95S 67.16W 222–12 3.8,3.5
SJA III 19 21 35 03.7–.56 24.45S 66.75W 143–62 3.0L,2.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=7.0km az=171.3.
IDC Error ellipse: s-maj=23.2km s-min=16.8km az=61.0.
SJA Error ellipse: s-maj=8.6km s-min=45.5km az=-1.0.
ISC III 23 14 21 24.4–.66 21.72S–.05 66.76W–.05 223–6 3.7b 57 1-153
SJA III 23 14 21 23.3–.63 21.43S 66.19W 244–5 4.5L,2.9W **¶16480454**
ISCJB III 23 14 21 24.0–.36 21.69S–.03 66.77W–.04 228–4 3.5b,2.9W
GUC III 23 14 21 25.1–.45 21.54S 67.23W 262–8 4.9L,2.9W
IDC III 23 14 21 25.4–1.6 21.52S 66.49W 223–14 3.9,3.6
ISC Event type ke.
SJA Error ellipse: s-maj=6.2km s-min=10.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.8km az=143.8.
GUC Error ellipse: s-maj=4.1km s-min=10.2km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=14.2km az=73.0.
ISC III 30 18 52 25.3–.91 20.72S–.06 67.4W–.10 203–10 4.2b 32 2-144
ISCJB III 30 18 52 24.5–.59 20.75S–.05 67.4W–.10 211–10 3.9b **¶17199221**
GUC III 30 18 52 25.9–.55 20.74S 67.76W 221–7 4.3L
IDC III 30 18 52 27.4–1.5 20.49S 67.29W 216–15 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=7.6km az=11.5.
GUC Error ellipse: s-maj=2.6km s-min=8.4km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=14.5km az=106.0.
IDC IV 03 04 18 07.3–8.5 21.52S 65.78W 309–53 3.7,3.1
¶17199610
IDC Error ellipse: s-maj=120.1km s-min=24.1km az=20.0.
IDC IV 06 03 56 06.1–22 19.28S 67.47W 240–117 3.5,3.1
¶17199957
IDC Error ellipse: s-maj=414.4km s-min=32.7km az=16.0.
ISC IV 17 23 33 47.2–1.1 19.03S–.07 67.7W–.10 217–11 23 2-89
ISCJB IV 17 23 33 47.4–.83 19.04S–.06 67.9W–.10 230–9 3.4b **¶17201369**
GUC IV 17 23 33 47.5–.35 19.14S 68.17W 245–3 3.5L
IDC IV 17 23 33 51.4–6.8 18.55S 67.33W 233–36 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=8.5km az=13.7.
GUC Error ellipse: s-maj=2.2km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=118.8km s-min=26.6km az=22.0.
ISC IV 21 15 20 49.2–.99 19.54S–.06 63.60W–.07 10 11 3-91
ISCJB IV 21 15 20 47.8–.59 19.52S–.04 63.57W–.07 10 3.6b **¶16649109**
IDC IV 21 15 20 47.5–1.6 19.57S 63.61W 0 3.9,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.0km az=11.6.
IDC Error ellipse: s-maj=25.3km s-min=22.4km az=12.0.
ISC IV 25 17 14 25.8–1.3 21.9S–.10 65.4W–.40 250 9 0-144
IDC IV 25 17 13 45.2–5.5 24.96S 66.12W 0 4.2L,4.1 **¶16649397**
ISCJB IV 25 17 14 25.6–.92 21.8S–.10 65.3W–.30 250 3.5b,4.1
SJA IV 25 17 14 25.1–1.1 22.03S 66.06W 256–13 3.3W,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=166.5km s-min=50.6km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=45.0km s-min=11.8km az=166.5.
SJA Error ellipse: s-maj=12.0km s-min=34.3km az=-1.0.
ISC IV 27 11 21 14.1–.41 19.83S–.05 66.30W–.06 35 4.7b,3.9s 299 2-171
SCB IV 27 11 21 01.2–.24 20.35S 66.48W 225 3.8L,3.9s **¶16483642**
ISCJB IV 27 11 21 11.5–.22 19.62S–.03 66.16W–.06 33 4.7b,3.9s
IDC IV 27 11 21 14.9–1.7 19.84S 66.26W 49–16 4.3,4.3
NEIC IV 27 11 21 15.0–.53 19.75S 66.22W 49–5 4.8b,4.3
SJA IV 27 11 21 47.3–.55 22.21S 65.26W 33–15 3.9W,3.0L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=11.7km s-min=5.1km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.1km az=171.9.
IDC Error ellipse: s-maj=20.1km s-min=18.1km az=52.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.3km az=79.0.

SJA Error ellipse: s-maj=22.8km s-min=11.7km az=-1.0.
ISC V 01 05 31 12.8–1.1 19.26S–.08 67.0W–.10 266 16 2-136
ISCJB V 01 05 31 11.7–1.0 19.32S–.08 66.9W–.10 266 4.0b **¶17202501**
IDC V 01 05 31 16.3–4.4 18.64S 66.45W 276–30 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=8.8km az=34.2.
IDC Error ellipse: s-maj=85.6km s-min=43.0km az=15.0.
ISC V 01 21 52 58.7–.80 21.48S–.05 66.67W–.05 225–8 49 1-144
ISCJB V 01 21 52 59.0–.48 21.52S–.04 66.75W–.04 228–6 3.6b **¶16708533**
IDC V 01 21 52 58.1–.98 21.50S 66.54W 215–11 4.1,3.6
SJA V 01 21 52 59.4–1.1 21.48S 66.64W 224–7 3.6L,3.3W
GUC V 01 21 53 00.3–.46 21.49S 67.22W 267–8 4.6L,3.3W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.3km az=34.4.
IDC Error ellipse: s-maj=18.8km s-min=11.7km az=124.0.
SJA Error ellipse: s-maj=6.6km s-min=4.9km az=-1.0.
GUC Error ellipse: s-maj=2.0km s-min=8.7km az=-1.0.
GUC V 04 09 15 57.4–.35 21.94S 66.71W 326–7 4.1L
¶601517323
GUC Error ellipse: s-maj=2.1km s-min=7.4km az=-1.0.
SCB V 16 14 21 32.7–.38 21.60S 66.69W 216 3.5L
¶602339190
SCB Event type ke. Error ellipse: s-maj=11.3km s-min=4.6km az=21.0.
GUC V 27 06 42 12.8–.47 20.91S 67.73W 203–8 3.5L
¶601517520
GUC Error ellipse: s-maj=2.2km s-min=9.9km az=-1.0.
ISC V 30 17 28 46.6–.45 19.85S–.03 66.98W–.04 244–4 4.7b 774 2-167
SCB V 30 17 28 44.0–.20 19.64S 66.56W 240 4.9L **¶16551583**
ISCJB V 30 17 28 44.2–.28 19.70S–.03 66.79W–.03 233–3 4.7b
MOS V 30 17 28 46.6–1.2 19.67S 66.79W 247 4.7b
GUC V 30 17 28 46.6–.57 19.97S 67.64W 285–7 5.6L
IDC V 30 17 28 47.9–.63 19.70S 66.78W 252–5 4.8,4.3
NEIC V 30 17 28 48.0–.16 19.73S 66.66W 252 4.8b,4.3
ISC Event type fe.
SCB Event type fe. Error ellipse: s-maj=10.2km s-min=4.5km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=143.0.
MOS Error ellipse: s-maj=19.2km s-min=6.7km az=117.7.
GUC Error ellipse: s-maj=2.8km s-min=9.6km az=-1.0.
IDC Error ellipse: s-maj=12.0km s-min=7.9km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=55.0. Felt at Iquique and Tocopilla, Chile.
ISC VI 01 18 24 07.8–1.2 21.55S–.08 66.46W–.09 200 19 3-75
IDC VI 01 18 24 09.1–1.1 21.55S 66.63W 234–19 3.9,3.3 **¶17204915**
ISCJB VI 01 18 24 10.2–1.2 21.50S–.07 66.60W–.08 200 3.3b,3.3
GUC VI 01 18 24 10.8–.53 21.46S 67.15W 255 3.7L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=12.5km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.8km az=42.8.
GUC Error ellipse: s-maj=4.7km s-min=6.7km az=-1.0.
ISC VI 07 13 02 23.0–.84 19.91S–.07 66.9W–.10 241 3.7b 10 3-135
ISCJB VI 07 13 02 22.3–.73 19.93S–.07 66.8W–.10 241 3.6b **¶17205487**
IDC VI 07 13 02 22.5–.84 19.91S 66.87W 239–10 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=9.1km az=21.0.
IDC Error ellipse: s-maj=19.3km s-min=10.5km az=100.0.
ISC VI 22 05 30 59.1–1.0 21.34S–.09 66.7W–.20 200 8 3-153
SJA VI 22 05 30 57.2–.34 22.18S 63.95W 383–999 3.1W,3.0L **¶16989512**
IDC VI 22 05 31 05.9–8.1 20.64S 68.41W 357–60 3.5,3.2b
ISC Event type ke.
SJA Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
IDC Error ellipse: s-maj=111.8km s-min=73.6km az=12.0.
IDC VI 27 16 14 36.0–8.6 21.91S 65.81W 271–60 3.8,3.4
¶17207085
IDC Error ellipse: s-maj=109.6km s-min=33.2km az=20.0.
ISC VI 28 06 00 47.3–.60 19.56S–.06 66.86W–.07 266 4.1b 32 2-151
IDC VI 28 06 00 45.5–1.1 19.55S 66.39W 226–10 4.1,3.6 **¶17207116**
ISCJB VI 28 06 00 46.0–.45 19.59S–.04 66.77W–.05 266 3.8b,3.6
GUC VI 28 06 00 48.0–.55 19.65S 66.93W 250 4.3L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=17.7km s-min=12.9km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.8km az=25.7.
GUC Error ellipse: s-maj=7.0km s-min=7.7km az=-1.0.

(127) Chile-Argentina border region.

ISC I 01 10 32 33.4–1.4 26.6S–.10 68.9W–.20 119 4 10-150
IDC I 01 10 32 36.8–3.3 26.46S 68.88W 216–26 4.2,3.8 **¶17189123**
ISC Event type ke.
IDC Error ellipse: s-maj=44.0km s-min=30.3km az=87.0.
ISC I 02 11 35 09.7–.70 32.50S–.04 70.12W–.05 111–6 3.7b 52 1-155
SJA I 02 11 35 07.6–.97 32.51S 70.12W 119–6 5.5W,4.5L **¶17189216**
ISCJB I 02 11 35 08.5–.34 32.51S–.03 70.12W–.05 118–3 3.8b,4.5L
GUC I 02 11 35 08.3–.47 32.50S 70.07W 115–3 4.1L,4.5L
IDC I 02 11 35 09.6–2.8 32.47S 70.11W 109–25 3.9,3.7
ISC Event type ke.
SJA Error ellipse: s-maj=4.3km s-min=4.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.9km az=30.8.
GUC Error ellipse: s-maj=1.4km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=27.5km s-min=15.8km az=89.0.
ISC I 03 06 03 04.8–3.0 35.4S–.10 70.9W–.10 120–17 28 0-7
GUC I 03 06 03 06.7–.58 35.31S 70.95W 110–4 3.6L **¶601516015**
SJA I 03 06 03 10.2–.78 34.99S 70.52W 165–19 2.8L,2.7W
ISC Event type ke.
GUC Error ellipse: s-maj=3.7km s-min=6.4km az=-1.0.
SJA Error ellipse: s-maj=12.9km s-min=16.5km az=-1.0.
ISC I 04 04 42 59.9–1.0 24.0S–.10 67.00W–.09 181 11 2-147
SJA I 04 04 42 58.1–.55 24.00S 66.92W 216–18 2.5W,2.5L **¶17189389**
ISCJB I 04 04 43 00.6–.74 24.1S–.10 67.1W–.10 181 3.1b,2.5L
IDC I 04 04 43 01.0–3.4 23.13S 66.48W 168–44 3.7,3.6
ISC Event type ke.
SJA Error ellipse: s-maj=5.5km s-min=25.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=8.1km az=38.4.
IDC Error ellipse: s-maj=163.5km s-min=48.0km az=18.0.
ISC I 04 22 59 11.5–.28 29.13S–.03 69.75W–.04 130–2 5.1b 945 1-176
ISCJB I 04 22 59 08.9–.24 29.05S–.02 69.58W–.03 117–2 5.0b **¶15905612**
MOS I 04 22 59 08.5–1.0 29.01S 69.51W 109 5.0b
SJA I 04 22 59 08.3–1.1 29.08S 69.79W 134–8 5.3L,5.0W
GUC I 04 22 59 09.2–.66 29.18S 69.79W 128–13 5.9L,5.8W
GCMT I 04 22 59 09.0–.20 29.28S 69.91W 130–1 5.3W,5.8W
NEIC I 04 22 59 10.0 29.04S 69.49W 110 5.1,5.1b
IDC I 04 22 59 11.8–.41 29.04S 69.61W 131–3 4.9,4.6
BJI I 04 22 59 12.2 29.00S 69.50W 111 5.2b,4.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=162.5.
MOS Error ellipse: s-maj=15.9km s-min=8.4km az=105.9.
SJA Error ellipse: s-maj=4.5km s-min=5.5km az=-1.0. Moment Tensor Solution. NP1:ϕ_s7.00000°,δ0.00000°,λ7.00000°.
GUC Error ellipse: s-maj=1.9km s-min=13.8km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c131; s98,c177;Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.90±.02 $M_{\theta\theta}$-0.01±.02; $M_{\phi\phi}$-0.88±.03; $M_{r\theta}$0.58±.01; $M_{\theta\phi}$0.21±.02; $M_{\phi r}$-0.32±.02; Best double couple: NP1: ϕ_s144.00000°,δ62.00000°,λ67.00000°. NP2:ϕ_s7.00000°,δ35.00000°,λ127.00000°. Principal axes: T 1.1960,Plg65.0000°,Azm13.0000°; N -0.1510,Plg20.0000°,Azm155.0000°; P -1.0440,Plg14.0000°,Azm251.0000° $M_0$1.12000×10^{17}
NEIC Event type fe. Felt [III] in San Juan and southwestern La Rioja. Also felt at Mendoza. Felt [IV] at Alto del Carmen, Coquimbo, La Higuera, La Serena and Vallenar; [III] at Andacollo, Combarbala, Copiapo, Freirina, Monte Patria, Ovalle, Paiguano, Rio Hurtado, Tierra Amarilla and Vicuna; [II] at Punitaqui and Santiago, Chile. Also felt at Valparaiso and Vina del Mar. After SJA.
IDC Error ellipse: s-maj=13.8km s-min=8.4km az=64.0.
ISC I 06 18 39 02.9–.79 35.07S–.05 70.95W–.07 96–7 3.9b 34 0-147
ISCJB I 06 18 39 02.3–.45 35.07S–.04 70.95W–.07 99–4 3.8b **¶17189605**
GUC I 06 18 39 02.3–.54 35.07S 70.98W 106–3 4.0L
SJA I 06 18 39 04.1–.48 34.92S 70.84W 58–14 3.5L
IDC I 06 18 39 05.0–3.5 35.08S 70.65W 112–34 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.1km az=26.5.
GUC Error ellipse: s-maj=1.9km s-min=4.2km az=-1.0.
SJA Error ellipse: s-maj=7.4km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=38.7km s-min=22.7km az=49.0.
ISC I 06 22 48 15.6–3.9 34.0S–.20 70.6W–.10 114–20 23 0-6
SJA I 06 22 48 15.7–.73 33.95S 70.41W 140–21 3.1L **¶601516058**
GUC I 06 22 48 17.2–.42 33.85S 70.66W 111–3 3.1L
ISC Event type ke.
SJA Error ellipse: s-maj=8.6km s-min=7.9km az=-1.0.
GUC Error ellipse: s-maj=4.6km s-min=8.7km az=-1.0.
ISC I 07 20 11 27.8–.71 24.25S–.06 67.09W–.05 181 3.8b 37 2-147
ISCJB I 07 20 11 27.8–.39 24.25S–.05 67.11W–.04 181 3.5b **¶17189657**
SJA I 07 20 11 27.5–.48 24.25S 66.99W 198–6 3.2W,3.0L
IDC I 07 20 11 27.8–1.8 24.22S 66.94W 177–14 4.1,3.7
GUC I 07 20 11 29.5–.58 24.19S 67.56W 215–19 5.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.0km az=32.5.
SJA Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=25.7km s-min=18.1km az=179.0.
GUC Error ellipse: s-maj=5.9km s-min=13.8km az=-1.0.
ISC I 09 11 34 43.3–1.6 30.85S–.04 69.30W–.04 119–13 28 1-3
ISCJB I 09 11 34 43.0–.87 30.85S–.03 69.30W–.04 119–9 **¶601516099**
SJA I 09 11 34 43.3–.68 30.88S 69.22W 116–4 3.0L,2.9W
GUC I 09 11 34 44.0–.34 30.88S 69.34W 107–10 2.8L,2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=5.3km az=15.2.
SJA Error ellipse: s-maj=2.1km s-min=3.3km az=-1.0.
GUC Error ellipse: s-maj=1.2km s-min=6.0km az=-1.0.
SJA I 10 09 17 33.2–.34 30.86S 69.58W 98–11 3.9W,2.3L
¶601891030
SJA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
GUC I 10 13 00 25.1–.47 23.75S 67.23W 237–17 3.7L
¶601516120
GUC Error ellipse: s-maj=5.6km s-min=15.2km az=-1.0.
ISC I 11 02 58 15.5–.72 24.11S–.04 67.17W–.04 178–7 3.9b 55 2-147
SCB I 11 02 58 11.7–.31 23.78S 66.53W 200 3.6L **¶17189894**
ISCJB I 11 02 58 14.7–.30 24.14S–.03 67.19W–.03 186–3 3.7b
SJA I 11 02 58 14.4–.85 24.10S 67.11W 200–8 3.4W,3.1L
IDC I 11 02 58 15.3–1.1 24.05S 67.00W 174–9 4.0,3.7
GUC I 11 02 58 16.4–.33 23.99S 67.64W 224–10 4.8L,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=54.8km s-min=6.6km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=135.6.
SJA Error ellipse: s-maj=3.5km s-min=3.8km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=13.2km az=38.0.
GUC Error ellipse: s-maj=3.0km s-min=9.2km az=-1.0.
ISC I 11 10 51 39.6–1.7 28.28S–.05 69.32W–.04 119–16 26 1-4
ISCJB I 11 10 51 39.5–1.0 28.30S–.04 69.32W–.05 115–11 **¶601516136**
SJA I 11 10 51 39.3–1.1 28.30S 69.31W 114–8 3.5W,3.4L
GUC I 11 10 51 40.3–.50 28.31S 69.33W 113–12 3.1L,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.3km az=39.5.
SJA Error ellipse: s-maj=5.6km s-min=4.2km az=-1.0.
GUC Error ellipse: s-maj=1.7km s-min=9.4km az=-1.0.
GUC I 11 14 35 03.5–.37 24.22S 67.19W 177–18 3.9L
¶601516138
GUC Error ellipse: s-maj=8.9km s-min=10.2km az=-1.0.
ISC I 11 16 42 42.8–3.4 34.4S–.10 70.36W–.06 7–19 18 1-3
SJA I 11 16 42 40.2–.57 34.71S 70.59W 74–36 3.4 **¶601516144**
GUC I 11 16 42 42.1–.29 34.39S 70.18W 11–1 2.7L
ISC Event type ke.
SJA Error ellipse: s-maj=6.3km s-min=37.7km az=-1.0.
GUC Error ellipse: s-maj=1.4km s-min=1.8km az=-1.0.
ISC I 13 09 47 32.1–.81 24.23S–.05 67.15W–.05 187–8 38 2-147
ISCJB I 13 09 47 31.3–.50 24.26S–.04 67.16W–.04 188–6 3.4b **¶17190046**
SJA I 13 09 47 32.0–1.2 24.30S 67.11W 184–16 3.1W,2.7L
IDC I 13 09 47 32.4–1.4 24.16S 67.00W 179–15 3.8,3.4
GUC I 13 09 47 33.7–.35 23.94S 67.67W 241–10 4.4L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.4km az=37.6.
SJA Error ellipse: s-maj=6.0km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=23.5km s-min=19.8km az=34.0.
GUC Error ellipse: s-maj=4.4km s-min=9.6km az=-1.0.
ISC I 14 23 12 13.4–.69 24.20S–.07 67.15W–.06 181 3.4b 32 2-147
ISCJB I 14 23 12 12.6–.56 24.19S–.05 67.16W–.04 181 3.4b **¶17190221**
IDC I 14 23 12 13.6–1.4 24.16S 67.00W 170–10 3.9,3.7
GUC I 14 23 12 15.8–.53 24.09S 67.66W 214–15 4.7L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.4km az=11.9.
IDC Error ellipse: s-maj=20.1km s-min=13.6km az=12.0.
GUC Error ellipse: s-maj=8.2km s-min=10.3km az=-1.0.
GUC I 15 14 20 07.7–.52 32.24S 70.26W 125–4 3.8L
¶601516187
GUC Error ellipse: s-maj=1.5km s-min=8.3km az=-1.0.
ISC I 16 00 02 00.7–1.6 31.08S–.03 70.02W–.05 140–15 32 1-6
ISCJB I 16 00 02 00.4–.83 31.08S–.03 70.03W–.06 140–11 **¶601516192**
SJA I 16 00 02 01.4–.95 31.05S 70.03W 117–23 4.6W,4.1L
GUC I 16 00 02 02.3–.36 31.12S 70.65W 135–3 3.7L,4.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.5km az=179.0.
SJA Error ellipse: s-maj=4.5km s-min=9.2km az=-1.0. Moment Tensor Solution. NP1: ϕ_s152.00000°,δ76.00000°,λ-62.00000°.
GUC Error ellipse: s-maj=1.1km s-min=14.8km az=-1.0.
ISC I 23 15 12 03.5–.91 24.20S–.07 67.06W–.08 181 20 2-147
ISCJB I 23 15 12 02.9–.55 24.25S–.05 67.12W–.08 181 3.7b **¶17190813**
SJA I 23 15 12 02.1–.50 24.24S 67.04W 202–6 3.0W,2.7L
IDC I 23 15 12 02.9–2.1 24.17S 66.97W 172–22 4.1,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.0km az=157.2.
SJA Error ellipse: s-maj=2.5km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=21.4km az=141.0.
ISC I 24 03 30 30.2–.89 32.3S–.10 70.4W–.20 115 20 1-152
IDC I 24 03 30 26.3–2.9 32.13S 70.14W 75–24 3.6,3.6 **¶17190855**
GUC I 24 03 30 29.7–.48 32.24S 70.49W 114–7 3.8L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=42.4km s-min=27.7km az=98.0.
GUC Error ellipse: s-maj=7.7km s-min=13.3km az=-1.0.
GUC I 24 04 01 22.2–.49 23.84S 67.37W 230–17 4.1L
¶601516305
GUC Error ellipse: s-maj=5.9km s-min=14.0km az=-1.0.
ISC I 25 18 31 59.4–.64 33.16S–.05 70.36W–.04 101–5 4.0b 56 0-155
ISCJB I 25 18 31 58.5–.34 33.21S–.04 70.34W–.04 108–2 4.1b **¶16135799**
NEIC I 25 18 31 58.6–.68 33.13S 70.24W 91–6 4.9b
SJA I 25 18 31 58.8–.90 33.20S 70.33W 97–6 4.1L,3.9W
GUC I 25 18 31 59.0–.40 33.14S 70.37W 102–3 4.2L,3.9W
IDC I 25 18 31 59.7–3.0 33.07S 70.21W 98–26 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=139.6.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=5.4km az=85.0. Felt [II] at Rancagua.
SJA Error ellipse: s-maj=4.8km s-min=3.8km az=-1.0.
GUC Error ellipse: s-maj=2.7km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=24.2km az=84.0.
GUC I 28 23 47 16.6–.58 23.95S 67.73W 242–16 4.2L
¶601516373
GUC Error ellipse: s-maj=6.4km s-min=13.6km az=-1.0.
ISC I 30 02 48 11.1–.47 29.45S–.04 69.49W–.03 114–4 4.4b 154 1-169

SJA I 30 02 48 08.4–1.2 29.37S 69.53W 136–11 4.0W,3.9L ¶15981234
GUC I 30 02 48 10.4–.43 29.43S 69.54W 112–11 4.6L,3.9L
ISCJB I 30 02 48 10.0–.27 29.45S–.03 69.44W–.04 111–2 4.3b,3.9L
BJI I 30 02 48 10.4 29.50S 69.30W 94 4.3b,3.9L
NEIC I 30 02 48 10.0 29.43S 69.54W 112 4.4b,3.9L
IDC I 30 02 48 11.6–.66 29.42S 69.34W 114–4 4.3,4.1
ISC Event type fe.
SJA Error ellipse: s-maj=5.1km s-min=5.7km az=-1.0.
GUC Error ellipse: s-maj=2.4km s-min=9.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=39.3.
NEIC Event type fe. Felt [II] at Coquimbo, La Ligua, La Serena and Vicuna, Chile. After GUC.
IDC Error ellipse: s-maj=19.9km s-min=17.2km az=58.0.
ISC I 30 06 15 30.5–2.5 24.40S–.06 67.26W–.05 194–25 24 2-4
SJA I 30 06 15 31.5–.61 24.41S 67.20W 185–7 2.5W,2.0L ¶601516392
ISCJB I 30 06 15 32.3–1.1 24.39S–.06 67.31W–.04 171–15 2.5W,2.0L
GUC I 30 06 15 34.2–.33 24.05S 67.75W 231–9 4.0L,2.0L
ISC Event type ke.
SJA Error ellipse: s-maj=2.7km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.5km az=23.0.
GUC Error ellipse: s-maj=3.9km s-min=8.6km az=-1.0.
ISC II 02 04 50 09.2–1.7 32.63S–.05 70.19W–.06 110–15 29 1-4
SJA II 02 04 50 07.9–.93 32.66S 70.17W 111–13 3.7L ¶601516426
ISCJB II 02 04 50 08.3–1.1 32.63S–.04 70.20W–.07 116–12 3.7L
GUC II 02 04 50 09.4–.60 32.62S 70.35W 110–4 3.7L
ISC Event type ke.
SJA Error ellipse: s-maj=8.4km s-min=7.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.2km az=3.2.
GUC Error ellipse: s-maj=1.6km s-min=8.2km az=-1.0.
ISC II 02 05 16 23.0–2.0 33.31S–.08 70.05W–.07 122–14 31 0-3
ISCJB II 02 05 16 23.3–.99 33.31S–.07 70.01W–.07 117–8 ¶601516428
GUC II 02 05 16 24.2–.60 33.24S 70.20W 117–3 3.5L
SJA II 02 05 16 27.3–.88 33.29S 69.99W 33 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=5.3km az=139.3.
GUC Error ellipse: s-maj=4.8km s-min=7.7km az=-1.0.
SJA Error ellipse: s-maj=9.8km s-min=3.1km az=-1.0.
ISC II 02 10 48 41.1–3.0 35.1S–.10 71.0W–.10 121–17 27 0-7
GUC II 02 10 48 41.9–.56 35.06S 71.00W 116–3 3.7L ¶601516434
SJA II 02 10 48 45.0–.45 34.67S 70.93W 152–9 3.2W,3.1L
ISC Event type ke.
GUC Error ellipse: s-maj=3.0km s-min=5.3km az=-1.0.
SJA Error ellipse: s-maj=9.7km s-min=4.9km az=-1.0.
ISC II 04 09 11 57.0–1.8 33.62S–.08 70.3W–.10 126–12 33 0-4
SJA II 04 09 11 55.9–.69 33.56S 70.20W 158–6 2.7L ¶601516454
ISCJB II 04 09 11 56.7–.89 33.61S–.07 70.3W–.10 127–7 2.7L
GUC II 04 09 11 58.3–.60 33.63S 70.31W 115–3 3.5L
ISC Event type ke.
SJA Error ellipse: s-maj=5.8km s-min=9.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=5.8km az=38.7.
GUC Error ellipse: s-maj=3.3km s-min=7.7km az=-1.0.
IDC II 05 16 58 37.3–1.5 31.60S 70.56W 0 4.6b,4.1
¶17191751
IDC Error ellipse: s-maj=63.4km s-min=40.0km az=118.0.
ISC II 07 13 22 48.4–1.0 24.05S–.07 67.07W–.08 181 16 2-147
SJA II 07 13 22 46.0–.74 24.27S 67.18W 188–20 3.3W,2.6L ¶17191859
IDC II 07 13 22 50.4–1.3 23.81S 67.11W 185–15 4.2,3.7
ISC Event type ke.
SJA Error ellipse: s-maj=4.6km s-min=16.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=20.4km az=19.0.
ISC II 11 05 57 47.2–2.5 24.31S–.07 67.15W–.07 185–29 23 2-7
SJA II 11 05 57 46.8–.95 24.27S 67.20W 183–19 2.5W,2.3L ¶601516527
ISCJB II 11 05 57 47.3–1.1 24.31S–.06 67.19W–.06 182–14 2.5W,2.3L
GUC II 11 05 57 49.5–.29 23.94S 67.53W 225–10 4.0L,2.3L
ISC Event type ke.
SJA Error ellipse: s-maj=5.6km s-min=18.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=4.7km az=42.5.
GUC Error ellipse: s-maj=3.6km s-min=8.3km az=-1.0.
ISC II 12 20 11 24.7–.80 31.60S–.04 70.12W–.04 116–7 4.0b 45 1-154
IDC II 12 20 11 22.0–3.2 31.63S 69.95W 85–27 3.8,3.6 ¶17192125
ISCJB II 12 20 11 23.6–.43 31.62S–.03 70.11W–.05 123–5 3.7b,3.6
SJA II 12 20 11 24.5–1.4 31.59S 70.12W 104–12 3.8L,3.6W
GUC II 12 20 11 26.3–.37 31.54S 71.00W 65–14 3.8L,3.6W
ISC Event type ke.
IDC Error ellipse: s-maj=35.2km s-min=26.3km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.9km az=29.0.
SJA Error ellipse: s-maj=3.9km s-min=5.3km az=-1.0.
GUC Error ellipse: s-maj=0.9km s-min=16.9km az=-1.0.
ISC II 14 04 54 40.8–.64 32.98S–.04 70.20W–.06 107–5 4.4b 358 1-174
IDC II 14 04 54 38.4–2.7 32.93S 70.01W 79–23 4.3,4.1 ¶16026118
SJA II 14 04 54 38.8–.50 33.09S 70.12W 102–10 4.0L,4.1
GUC II 14 04 54 39.9–1.1 32.97S 70.32W 117–6 4.6L,4.1
ISCJB II 14 04 54 39.8–.26 32.96S–.04 70.13W–.05 106–2 4.4b,4.1
BJI II 14 04 54 39.8 32.90S 69.80W 93 4.4b,4.1
NEIC II 14 04 54 40.0–.62 32.92S 70.00W 94–5 4.5b,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=19.4km s-min=19.0km az=29.0.
SJA Error ellipse: s-maj=11.3km s-min=9.6km az=-1.0.
GUC Error ellipse: s-maj=6.9km s-min=10.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=30.5.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=69.0. Felt at San Martin. Felt [III] at Los Andes and [II] at Colina, Lampa, San Felipe, Santiago, Tiltil, Valparaiso and Villa Alemana, Chile. Also felt at Puente Alto, Quilpue and Vina del Mar.
ISC II 14 15 48 22.9–.84 24.30S–.06 67.11W–.04 191–7 38 2-147
IDC II 14 15 47 54.6–2.3 26.02S 67.71W 0 4.1L,4.0 ¶17192254
SJA II 14 15 48 20.9–.96 24.24S 67.23W 193–17 2.7L,4.0
ISCJB II 14 15 48 22.4–.54 24.31S–.05 67.13W–.04 193–5 3.1b,4.0
GUC II 14 15 48 24.8–.33 24.14S 67.39W 204–25 4.2L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=64.8km s-min=47.1km az=25.0.
SJA Error ellipse: s-maj=4.6km s-min=17.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.0km az=26.8.
GUC Error ellipse: s-maj=10.2km s-min=16.4km az=-1.0.
ISC II 15 02 24 17.5–.71 24.22S–.07 67.33W–.06 178 3.8b 27 2-147
SJA II 15 02 24 11.1–.92 24.35S 66.78W 285–16 3.4L ¶17192278
IDC II 15 02 24 13.7–3.4 24.12S 67.40W 136–29 4.0,3.7
ISCJB II 15 02 24 16.2–.49 24.22S–.07 67.32W–.05 178 3.6b,3.7
GUC II 15 02 24 19.6–.38 23.99S 67.82W 220–12 4.6L,3.7
ISC Event type ke.
SJA Error ellipse: s-maj=13.4km s-min=23.5km az=-1.0.
IDC Error ellipse: s-maj=24.9km s-min=23.2km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.6km az=25.0.
GUC Error ellipse: s-maj=4.4km s-min=10.9km az=-1.0.
SJA II 15 23 12 50.5–.61 34.88S 70.56W 225–36 3.9
¶602035987
SJA Error ellipse: s-maj=26.6km s-min=32.9km az=-1.0.
GUC II 16 16 25 44.4–.50 34.66S 70.78W 107–4 3.8L
¶601516608
GUC Error ellipse: s-maj=2.4km s-min=4.3km az=-1.0.
SJA II 17 13 01 02.0–.53 29.79S 69.67W 121–5 3.5L
¶602036010
SJA Error ellipse: s-maj=1.6km s-min=2.1km az=-1.0.
SJA II 18 12 43 44.1–.58 30.76S 70.44W 129–7 3.4L
¶602036033
SJA Error ellipse: s-maj=1.9km s-min=2.8km az=-1.0.
ISC II 18 23 54 06.6–1.0 34.93S–.03 70.41W–.04 25–7 4.8b,4.1s 114 1-175
IDC II 18 23 54 02.6–.64 34.97S 70.16W 0 4.5,4.4 ¶16032634
GUC II 18 23 54 03.2–.53 34.91S 70.39W 18–3 4.8L,4.4
NEIC II 18 23 54 03.0 34.91S 70.39W 18 4.8L,4.8b
SJA II 18 23 54 04.0–1.2 34.68S 71.42W 199–11 4.8L,4.8b
ISCJB II 18 23 54 04.7–.89 34.99S–.03 70.36W–.04 19–6 4.8b,4.1s
BJI II 18 23 54 09.8 34.90S 70.10W 43 5.4b,5.2s

ISC Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=17.5km az=91.0.
GUC Error ellipse: s-maj=1.5km s-min=2.8km az=-1.0.
NEIC Event type fe. Felt [III] at Talca and [II] at Curico, Rancagua, Romeral, San Fernando and Tiltil. Also felt [III] at Malargue and San Rafael, Argentina. After GUC.
SJA Error ellipse: s-maj=6.1km s-min=11.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.9km az=143.1.
ISC II 20 01 53 53.0–2.5 33.09S–.07 70.6W–.10 90–18 20 0-4
SJA II 20 01 53 50.9–.70 33.24S 70.45W 88–13 3.1W,2.3L ¶601516642
ISCJB II 20 01 53 52.1–1.4 33.10S–.07 70.6W–.10 96–10 3.1W,2.3L
GUC II 20 01 53 52.7–.31 33.06S 70.53W 87–2 2.7L,2.3L
ISC Event type ke.
SJA Error ellipse: s-maj=17.5km s-min=14.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=8.4km az=28.7.
GUC Error ellipse: s-maj=2.3km s-min=7.9km az=-1.0.
SJA II 20 07 25 38.7–.90 34.00S 69.54W 23–53 3.5W,2.7L
¶602036076
SJA Error ellipse: s-maj=43.0km s-min=17.1km az=-1.0.
ISC II 24 16 57 11.4–.80 24.20S–.06 67.22W–.04 181–7 36 2-147
IDC II 24 16 57 09.0–3.4 24.29S 67.05W 150–28 4.1,3.8 ¶17192798
ISCJB II 24 16 57 10.9–.52 24.21S–.04 67.24W–.04 184–5 3.6b,3.8
SJA II 24 16 57 10.6–.61 24.19S 67.11W 199–10 2.9W,2.9L
GUC II 24 16 57 14.2–.31 23.90S 67.75W 231–7 4.4L,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=28.3km s-min=27.6km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.4km az=34.6.
SJA Error ellipse: s-maj=2.1km s-min=10.5km az=-1.0.
GUC Error ellipse: s-maj=3.7km s-min=6.5km az=-1.0.
GUC III 01 07 20 49.2–.26 23.63S 67.20W 230–10 4.1L
¶601516736
GUC Error ellipse: s-maj=3.6km s-min=8.4km az=-1.0.
GUC III 01 19 41 47.8–.45 23.75S 67.36W 245–17 3.5L
¶601516743
GUC Error ellipse: s-maj=7.8km s-min=15.5km az=-1.0.
ISC III 04 01 09 20.8–.76 24.26S–.05 67.12W–.05 180–7 3.8b 42 2-156
IDC III 04 01 09 20.7–4.0 24.16S 66.99W 172–29 4.0,3.8 ¶16484328
ISCJB III 04 01 09 20.0–.38 24.27S–.04 67.15W–.04 189–4 3.7b,3.8
SJA III 04 01 09 20.4–.83 24.26S 67.07W 194–15 3.5L,3.1W
GUC III 04 01 09 22.6–.46 24.10S 67.73W 238–13 4.7L,3.1W
ISC Event type ke.
IDC Error ellipse: s-maj=42.2km s-min=17.4km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.2km az=38.4.
SJA Error ellipse: s-maj=3.7km s-min=15.2km az=-1.0.
GUC Error ellipse: s-maj=4.1km s-min=12.6km az=-1.0.
SJA III 05 13 36 22.8–.89 31.93S 70.30W 102–9 3.7W,3.4L
¶16603357
SJA Error ellipse: s-maj=4.9km s-min=4.4km az=-1.0.
GUC III 10 09 39 19.8–.42 24.32S 68.33W 189–11 3.5L
¶601516823
GUC Error ellipse: s-maj=3.2km s-min=10.5km az=-1.0.
ISC III 11 13 05 37.2–.59 24.06S–.05 67.16W–.06 181 4.1b 39 2-128
SJA III 11 13 05 35.9–.87 24.03S 67.08W 209–25 3.7W,3.0L ¶16476405
ISCJB III 11 13 05 36.7–.34 24.06S–.04 67.17W–.04 181 4.1b,3.0L
IDC III 11 13 05 38.3–2.6 23.98S 66.90W 186–22 4.5,4.2
GUC III 11 13 05 39.3–.49 23.77S 67.71W 239–13 5.1L,4.2
ISC Event type ke.
SJA Error ellipse: s-maj=6.6km s-min=16.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=141.4.
IDC Error ellipse: s-maj=21.8km s-min=14.3km az=46.0.
GUC Error ellipse: s-maj=6.6km s-min=13.5km az=-1.0.
ISC III 11 15 08 27.0–1.0 24.16S–.06 67.0W–.10 181 18 2-77
ISCJB III 11 15 08 25.1–.89 24.24S–.05 67.2W–.10 181 3.5b ¶16476494
SJA III 11 15 08 26.0–.60 24.22S 67.15W 177–15 3.3W,2.6L
IDC III 11 15 08 32.0–2.1 23.76S 66.90W 224–23 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=5.9km az=165.4.
SJA Error ellipse: s-maj=2.1km s-min=11.7km az=-1.0.
IDC Error ellipse: s-maj=22.8km s-min=17.8km az=64.0.
ISC III 14 03 23 02.3–1.0 23.97S–.09 67.05W–.08 181 15 3-147
ISCJB III 14 03 23 01.2–.98 24.01S–.09 67.02W–.07 181 3.1b ¶17195053
GUC III 14 03 23 02.7–.27 23.91S 67.55W 229–11 3.8L
IDC III 14 03 23 06.2–2.4 23.79S 66.76W 209–26 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.9km az=21.0.
GUC Error ellipse: s-maj=4.6km s-min=11.3km az=-1.0.
IDC Error ellipse: s-maj=32.3km s-min=20.8km az=104.0.
ISC III 15 10 34 52.7–3.1 33.14S–.10 70.4W–.10 114–21 23 0-4
SJA III 15 10 34 52.6–.76 33.19S 70.32W 98–7 2.1L,1.9W ¶16630590
ISCJB III 15 10 34 52.9–1.4 33.14S–.07 70.36W–.09 111–9 2.1L,1.9W
GUC III 15 10 34 53.9–.26 33.08S 70.56W 105–2 3.0L,1.9W
ISC Event type ke.
SJA Error ellipse: s-maj=5.4km s-min=5.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=8.4km az=137.3.
GUC Error ellipse: s-maj=3.6km s-min=6.4km az=-1.0.
GUC III 15 12 09 00.9–.48 23.93S 67.43W 232–15 4.0L
¶601516869
GUC Error ellipse: s-maj=4.9km s-min=11.6km az=-1.0.
GUC III 16 00 35 01.7–.26 23.95S 67.56W 234–9 3.9L
¶601516876
GUC Error ellipse: s-maj=3.7km s-min=7.5km az=-1.0.
SJA III 16 22 46 33.3–.86 31.10S 70.42W 74–8 3.6L,3.2W
¶16630636
SJA Error ellipse: s-maj=5.5km s-min=8.2km az=-1.0.
ISC III 18 16 11 00.4–.72 34.69S–.04 70.93W–.06 101–7 4.1b 48 0-152
ISCJB III 18 16 10 59.1–.33 34.71S–.03 70.91W–.07 106–4 4.1b ¶16479224
NEIC III 18 16 11 00.7–1.1 34.64S 70.62W 95–10 4.4b
GUC III 18 16 11 00.8–.56 34.66S 71.07W 103–3 3.9L
IDC III 18 16 11 01.4–3.6 34.65S 70.48W 99–35 4.2,4.0b
SJA III 18 16 11 08.3–.73 34.11S 70.34W 123–9 3.4L,2.9W
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=4.0km az=22.8.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=9.2km az=88.0.
GUC Error ellipse: s-maj=1.9km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=34.4km s-min=20.9km az=89.0.
SJA Error ellipse: s-maj=6.4km s-min=5.6km az=-1.0.
ISC III 18 16 59 50.0–.27 24.08S–.03 67.15W–.04 181 4.7b 518 2-174
SCB III 18 16 59 46.8–.74 23.88S 67.40W 176–7 4.3L ¶16336116
SJA III 18 16 59 47.9–.88 24.05S 66.48W 260–9 3.8L,3.2W
BJI III 18 16 59 48.7 24.00S 67.00W 158 5.1b,3.2W
NEIC III 18 16 59 48.4–.57 24.08S 66.98W 161–5 4.9b,3.2W
ISCJB III 18 16 59 49.1–.14 24.03S–.02 67.12W–.03 181 4.8b,3.2W
IDC III 18 16 59 50.2–1.4 23.94S 66.95W 175–11 4.9,4.5
MOS III 18 16 59 50.8–1.1 23.92S 66.85W 186 4.9b,4.5
GUC III 18 16 59 52.5–.30 24.12S 67.43W 170 5.7L,4.5
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=18.5km s-min=9.6km az=36.0.
SJA Error ellipse: s-maj=5.4km s-min=15.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=148.6.
IDC Error ellipse: s-maj=13.7km s-min=9.8km az=74.0.
MOS Error ellipse: s-maj=16.5km s-min=9.0km az=117.6.
GUC Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
ISC III 19 19 11 08.8–.70 24.15S–.05 67.01W–.05 181 3.3b 32 1-147
ISCJB III 19 19 11 09.3–.38 24.17S–.04 67.02W–.05 181 3.5b ¶16479547
SJA III 19 19 11 09.2–1.1 24.22S 66.99W 195–21 2.7L,2.1W
IDC III 19 19 11 10.7–3.3 24.03S 66.91W 198–30 3.8,3.4
GUC III 19 19 11 11.3–.39 23.85S 67.49W 243–13 4.4L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.5km az=137.8.
SJA Error ellipse: s-maj=7.3km s-min=24.0km az=-1.0.
IDC Error ellipse: s-maj=29.3km s-min=27.3km az=105.0.

GUC Error ellipse: s-maj=4.9km s-min=10.9km az=-1.0.
ISC III 21 08 57 57.1–1.3 24.12S–.07 67.21W–.05 178 17 2-4
SJA III 21 08 57 55.5–.74 24.10S 67.14W 198–27 2.9W,2.5L **¶16630881**
ISCJB III 21 08 57 56.9–.59 24.11S–.06 67.24W–.05 178 2.9W,2.5L
GUC III 21 08 57 59.3–.47 23.77S 67.72W 238–15 4.0L,2.5L
ISC Event type ke.
SJA Error ellipse: s-maj=3.7km s-min=30.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.9km az=28.3.
GUC Error ellipse: s-maj=7.1km s-min=17.8km az=-1.0.
GUC III 22 11 34 36.1–.23 23.92S 67.39W 225 3.6L
¶601516925
GUC Error ellipse: s-maj=1.8km s-min=2.8km az=-1.0.
GUC III 23 10 55 46.3–.40 23.80S 67.68W 228–12 4.0L
¶601516932
GUC Error ellipse: s-maj=6.1km s-min=10.6km az=-1.0.
SJA III 26 02 19 41.8–.74 29.80S 69.37W 138–6 3.5L,3.2W
¶16630993
SJA Error ellipse: s-maj=2.6km s-min=5.1km az=-1.0.
ISC III 29 18 12 58.0–1.8 23.2S–.10 68.0W–.10 107–17 3.7b 18 2-146
IDC III 29 18 12 40.9–2.2 24.04S 68.37W 0 4.0b,3.9 **¶17199093**
ISCJB III 29 18 12 57.7–1.3 23.1S–.10 68.0W–.10 119–14 3.8b,3.9
GUC III 29 18 12 59.5–.63 23.05S 68.30W 137–11 3.8L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=56.3km s-min=48.1km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=14.5km az=36.5.
GUC Error ellipse: s-maj=4.3km s-min=11.2km az=-1.0.
ISC III 29 18 14 44.2–.69 24.25S–.05 67.32W–.05 181 3.4b 37 2-147
ISCJB III 29 18 14 43.3–.36 24.23S–.03 67.33W–.04 181 3.4b **¶16475696**
IDC III 29 18 14 43.9–2.7 24.18S 67.15W 164–22 4.0,3.7
SJA III 29 18 14 43.2–.66 24.21S 67.22W 195–123 2.5W,2.5L
GUC III 29 18 14 46.0–.47 24.10S 67.92W 222–18 4.5L,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=44.0.
IDC Error ellipse: s-maj=26.2km s-min=19.4km az=51.0.
SJA Error ellipse: s-maj=6.0km s-min=88.4km az=-1.0.
GUC Error ellipse: s-maj=6.3km s-min=17.7km az=-1.0.
ISC III 30 14 48 23.7–.73 34.18S–.04 70.70W–.06 96–6 3.9b 51 1-156
ISCJB III 30 14 48 23.0–.34 34.20S–.04 70.68W–.06 99–3 3.7b **¶16475838**
GUC III 30 14 48 23.3–.72 34.17S 70.74W 99–5 4.3L
SJA III 30 14 48 23.0–1.7 34.05S 70.71W 121–24 3.3L,3.2W
IDC III 30 14 48 23.7–3.1 34.21S 70.54W 96–29 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.4km az=28.7.
GUC Error ellipse: s-maj=2.4km s-min=5.6km az=-1.0.
SJA Error ellipse: s-maj=17.9km s-min=14.0km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=19.8km az=83.0.
GUC III 31 18 33 24.5–.32 24.15S 67.06W 215–13 4.0L
¶601516996
GUC Error ellipse: s-maj=3.2km s-min=9.2km az=-1.0.
ISC IV 01 19 08 22.8–3.5 33.5S–.20 70.21W–.08 124–20 19 0-4
SJA IV 01 19 08 21.7–.54 33.56S 70.19W 126–7 2.6L,2.5W **¶16647972**
ISCJB IV 01 19 08 22.7–1.6 33.5S–.10 70.20W–.07 125–8 2.6L,2.5W
GUC IV 01 19 08 23.3–.45 33.46S 70.32W 120–4 3.0L,2.5W
ISC Event type ke.
SJA Error ellipse: s-maj=7.8km s-min=9.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=9.6km az=174.2.
GUC Error ellipse: s-maj=7.0km s-min=12.9km az=-1.0.
ISC IV 02 02 06 49.4–1.1 24.22S–.07 67.21W–.05 181 23 2-77
SJA IV 02 02 06 48.8–.70 24.29S 66.90W 216–24 2.9W,2.3L **¶16647999**
ISCJB IV 02 02 06 49.3–.53 24.22S–.06 67.23W–.04 181 3.1b,2.3L
GUC IV 02 02 06 52.3–.32 23.97S 67.71W 224–10 4.0L,2.3L
IDC IV 02 02 06 55.4–2.9 23.80S 66.90W 214–43 3.8,3.3
ISC Event type ke.
SJA Error ellipse: s-maj=6.9km s-min=24.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.4km az=22.9.
GUC Error ellipse: s-maj=3.7km s-min=8.4km az=-1.0.
IDC Error ellipse: s-maj=44.3km s-min=21.5km az=109.0.
ISC IV 02 03 57 10.8–1.5 24.28S–.06 67.3W–.20 178 15 2-77
ISCJB IV 02 03 57 12.3–1.1 24.28S–.04 67.2W–.10 178 3.4b **¶16648002**
SJA IV 02 03 57 12.9–.78 24.30S 66.95W 193–17 3.0W,2.8L
IDC IV 02 03 57 18.9–2.1 23.77S 66.88W 248–24 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=5.9km az=175.1.
SJA Error ellipse: s-maj=3.6km s-min=25.2km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=19.5km az=86.0.
GUC IV 02 13 20 56.0–.43 23.94S 67.58W 239–15 4.1L
¶601517015
GUC Error ellipse: s-maj=6.5km s-min=12.3km az=-1.0.
ISC IV 03 03 24 02.6–1.9 30.18S–.04 70.39W–.08 15–10 3.5b 29 2-153
IDC IV 03 03 23 59.1–2.4 31.20S 70.18W 0 3.7,3.6 **¶16648054**
SJA IV 03 03 24 13.6–1.3 30.66S 70.14W 115–19 3.5L,3.1W
ISC Event type ke.
IDC Error ellipse: s-maj=94.4km s-min=37.0km az=13.0.
SJA Error ellipse: s-maj=6.9km s-min=8.5km az=-1.0.
ISC IV 03 17 36 23.5–2.4 33.29S–.09 70.26W–.06 127–15 36 0-153
ISCJB IV 03 17 36 25.4–.94 33.19S–.06 70.23W–.05 117–7 3.5b **¶16648063**
SJA IV 03 17 36 25.5–1.3 33.13S 70.26W 112–9 3.3W,3.2L
GUC IV 03 17 36 26.9–.80 33.12S 70.31W 111–5 4.0L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.9km az=148.0.
SJA Error ellipse: s-maj=7.9km s-min=7.1km az=-1.0.
GUC Error ellipse: s-maj=9.1km s-min=12.6km az=-1.0.
ISC IV 04 23 57 15.4–.43 24.18S–.05 67.17W–.06 181 4.2b 78 2-166
SCB IV 04 23 57 11.2–.63 24.12S 67.46W 148 3.7L **¶16411015**
SJA IV 04 23 57 13.6–.43 24.21S 67.19W 192–10 3.6W,3.6L
ISCJB IV 04 23 57 14.7–.28 24.24S–.03 67.14W–.05 181 4.2b,3.6L
IDC IV 04 23 57 15.2–1.9 24.12S 66.97W 173–15 4.3,4.0
NEIC IV 04 23 57 16.6–1.1 24.27S 66.88W 181–10 4.4b,4.0
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=14.1km s-min=10.7km az=36.0.
SJA Error ellipse: s-maj=2.6km s-min=10.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.3km az=158.0.
IDC Error ellipse: s-maj=18.1km s-min=12.7km az=61.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.9km az=209.0.
ISC IV 07 11 19 08.4–1.3 33.62S–.09 70.02W–.04 11–10 17 0-5
GUC IV 07 11 19 08.2–.53 33.66S 70.01W 9–1 2.8L **¶16648273**
SJA IV 07 11 19 08.1–.91 33.57S 70.04W 5–16 3.3W,3.3L
ISC Event type ke.
GUC Error ellipse: s-maj=3.5km s-min=3.9km az=-1.0.
SJA Error ellipse: s-maj=14.7km s-min=4.3km az=-1.0.
ISC IV 11 16 58 39.4–1.5 33.83S–.05 70.83W–.06 98–10 33 0-5
ISCJB IV 11 16 58 38.5–.70 33.83S–.04 70.85W–.06 104–7 **¶16648537**
SJA IV 11 16 58 38.5–.85 33.80S 70.69W 131–14 3.3W,3.1L
GUC IV 11 16 58 39.6–1.1 33.88S 70.78W 95–7 3.8L,3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.1km az=36.6.
SJA Error ellipse: s-maj=5.2km s-min=11.0km az=-1.0.
GUC Error ellipse: s-maj=3.8km s-min=8.1km az=-1.0.
SJA IV 13 10 37 06.6–.47 32.16S 70.98W 2–6 3.5
¶16648674
SJA Error ellipse: s-maj=5.1km s-min=6.6km az=-1.0.
ISC IV 14 19 52 53.3–1.2 24.22S–.06 67.20W–.04 150 25 2-5
ISCJB IV 14 19 52 53.1–.49 24.23S–.05 67.22W–.04 150 **¶16648735**
GUC IV 14 19 52 53.4–.65 24.14S 67.78W 226–21 4.4L
SJA IV 14 19 52 54.6–.77 24.35S 67.02W 154–19 2.7W,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.2km az=28.5.
GUC Error ellipse: s-maj=6.4km s-min=18.7km az=-1.0.
SJA Error ellipse: s-maj=6.4km s-min=14.7km az=-1.0.
ISC IV 15 22 22 37.7–1.6 33.2S–.10 70.30W–.09 22–7 9 0-2
GUC IV 15 22 22 36.2–.65 33.12S 70.27W 11–5 1.7L **¶16648802**
SJA IV 15 22 22 36.5–.60 33.08S 70.28W 3–8 2.5W,1.6L
ISCJB IV 15 22 22 37.8–.77 33.20S–.07 70.31W–.07 23–14 2.5W,1.6L
ISC Event type ke.
ISCJB Event type ke.
GUC IV 17 22 15 04.9–.54 33.11S 70.31W 16–2 1.4L
¶16648924
GUC Error ellipse: s-maj=2.0km s-min=3.7km az=-1.0.
SJA IV 20 06 24 13.9–.63 31.75S 70.35W 74–12 3.6W,2.1L
¶16649044
SJA Error ellipse: s-maj=6.2km s-min=5.5km az=-1.0.
ISC IV 20 20 55 05.8–.69 31.60S–.04 70.96W–.07 59–7 4.4b 42 1-154
ISCJB IV 20 20 55 05.6–.46 31.61S–.03 70.92W–.06 80–6 4.3b **¶16596714**
IDC IV 20 20 55 05.2–.70 31.62S 71.03W 54–5 4.2,4.1b
NEIC IV 20 20 55 06.0–1.0 31.59S 71.08W 63–9 4.8b,4.1b
GUC IV 20 20 55 06.1–.50 31.75S 71.12W 55 4.4L,4.1b
SJA IV 20 20 55 07.4–.46 32.20S 70.77W 147–6 4.3L,4.2W
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.9km az=2.2.
IDC Error ellipse: s-maj=24.8km s-min=17.9km az=95.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=7.4km az=88.0.
GUC Error ellipse: s-maj=4.3km s-min=13.5km az=-1.0.
SJA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
SJA IV 21 02 00 37.1–.77 32.71S 70.27W 105–5 4.0W,2.4L
¶16649097
SJA Error ellipse: s-maj=3.6km s-min=3.0km az=-1.0.
SJA IV 21 09 14 02.3–.39 31.84S 70.12W 86–3 3.8W,1.4L
¶16649104
SJA Error ellipse: s-maj=1.9km s-min=5.5km az=-1.0.
ISC IV 22 15 46 12.1–3.5 33.8S–.10 70.31W–.07 134–18 29 0-4
SJA IV 22 15 46 11.8–.90 33.76S 70.29W 131–6 3.3W,3.1L **¶16649180**
ISCJB IV 22 15 46 13.6–1.2 33.68S–.06 70.29W–.06 126–7 3.3W,3.1L
GUC IV 22 15 46 16.7–.40 33.59S 70.35W 113–2 3.9L,3.1L
ISC Event type ke.
SJA Error ellipse: s-maj=5.1km s-min=4.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.7km az=169.5.
GUC Error ellipse: s-maj=2.8km s-min=4.3km az=-1.0.
GUC IV 22 22 12 42.7–.27 23.87S 67.57W 210–9 4.3L
¶601517192
GUC Error ellipse: s-maj=4.0km s-min=7.9km az=-1.0.
SJA IV 23 05 13 44.9–.52 30.98S 69.13W 109–4 3.6W,2.0L
¶16649250
SJA Error ellipse: s-maj=2.8km s-min=4.0km az=-1.0.
ISC IV 24 16 04 44.7–.78 28.61S–.05 69.76W–.06 104–7 4.0b 44 1-152
IDC IV 24 16 04 43.4–4.8 28.66S 69.82W 94–39 4.0,3.9 **¶16553312**
ISCJB IV 24 16 04 44.2–.34 28.58S–.03 69.89W–.06 112–4 3.9b,3.9
GUC IV 24 16 04 44.2–.33 28.60S 69.84W 111–6 4.3L,3.9
NEIC IV 24 16 04 44.3–.61 28.63S 69.75W 102–6 4.4b,3.9
SJA IV 24 16 04 47.0–.83 28.81S 69.31W 185–5 4.3W,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=38.3km s-min=20.5km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.6km az=2.3.
GUC Error ellipse: s-maj=1.8km s-min=7.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.0km az=101.0.
SJA Error ellipse: s-maj=3.5km s-min=5.5km az=-1.0.
SJA IV 24 19 51 08.0–.67 27.87S 68.78W 138–6 3.8W,2.3L
¶16649336
SJA Error ellipse: s-maj=4.9km s-min=5.7km az=-1.0.
SJA IV 25 06 06 45.8–.68 30.43S 69.47W 113–5 3.9L,3.1W
¶16649388
SJA Error ellipse: s-maj=1.6km s-min=4.4km az=-1.0.
ISC IV 27 03 34 58.5–1.0 24.06S–.07 67.03W–.06 181 17 2-147
SJA IV 27 03 34 56.6–.30 24.12S 66.93W 212–11 2.6W,1.9L **¶16649479**
ISCJB IV 27 03 34 58.7–.63 24.14S–.07 67.07W–.06 181 3.2b,1.9L
IDC IV 27 03 35 08.8–9.8 23.25S 66.46W 244–67 3.4,3.1
ISC Event type ke.
SJA Error ellipse: s-maj=1.8km s-min=14.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.1km az=28.0.
IDC Error ellipse: s-maj=110.5km s-min=44.0km az=27.0.
GUC IV 28 08 32 36.7–.38 34.48S 70.73W 118–3 3.5L
¶601517246
GUC Error ellipse: s-maj=1.7km s-min=3.5km az=-1.0.
ISC IV 28 12 03 52.4–1.3 34.57S–.05 70.92W–.05 5–13 20 1-3
GUC IV 28 12 03 53.6–.85 34.58S 70.97W 24–551 3.7L **¶16649552**
SJA IV 28 12 03 53.0–.45 34.49S 71.46W 18–46 3.3W,2.9L
ISC Event type ke.
GUC Error ellipse: s-maj=2.5km s-min=5.2km az=-1.0.
SJA Error ellipse: s-maj=30.3km s-min=23.0km az=-1.0.
ISC IV 30 04 44 52.8–2.4 33.01S–.08 70.10W–.05 121–16 30 1-5
ISCJB IV 30 04 44 53.1–1.1 32.98S–.06 70.09W–.05 117–8 **¶16649693**
GUC IV 30 04 44 53.7–.53 32.88S 70.12W 106–10 3.3L
SJA IV 30 04 44 53.1–1.0 32.95S 70.09W 110–5 3.1W,3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.6km az=152.0.
GUC Error ellipse: s-maj=8.3km s-min=14.6km az=-1.0.
SJA Error ellipse: s-maj=4.3km s-min=3.8km az=-1.0.
GUC IV 30 17 26 01.3–.53 24.32S 67.41W 168–15 3.9L
¶601517271
GUC Error ellipse: s-maj=5.0km s-min=7.8km az=-1.0.
ISC V 01 01 22 42.2–3.2 33.4S–.10 70.43W–.08 111–19 25 0-5
ISCJB V 01 01 22 42.9–1.3 33.35S–.08 70.38W–.08 105–8 **¶16988247**
GUC V 01 01 22 43.8–.40 33.33S 70.41W 102–3 2.8L
SJA V 01 01 22 43.0–1.1 33.27S 70.39W 102–8 2.5W,1.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=8.3km az=143.2.
GUC Error ellipse: s-maj=3.5km s-min=6.7km az=-1.0.
SJA Error ellipse: s-maj=7.6km s-min=6.4km az=-1.0.
SJA V 01 05 06 46.4–1.2 34.42S 70.82W 125–25 4.0W,3.9L
¶16988255
SJA Error ellipse: s-maj=8.1km s-min=20.8km az=-1.0.
ISC V 01 18 33 30.9–1.8 33.05S–.06 70.35W–.04 5–15 13 0-2
SJA V 01 18 33 24.5–.34 33.60S 70.64W 85–6 2.5W,2.4L **¶16988271**
GUC V 01 18 33 32.4–.40 33.09S 70.31W 12–2 1.9L,2.4L
ISC Event type ke.
SJA Error ellipse: s-maj=7.3km s-min=3.2km az=-1.0.
GUC Error ellipse: s-maj=2.4km s-min=2.7km az=-1.0.
ISC V 03 06 35 41.6–.53 30.17S–.04 69.37W–.04 44–5 4.2b 67 1-156
SJA V 03 06 35 39.9–.81 30.22S 69.20W 5 4.4L,4.1W **¶16708675**
IDC V 03 06 35 40.8–.56 30.28S 69.26W 39–4 4.1,4.1
GUC V 03 06 35 40.8–.36 30.21S 69.35W 32–2 4.2L,4.1
NEIC V 03 06 35 41.8–.61 30.23S 69.23W 48–5 4.5b,4.1
ISCJB V 03 06 35 42.7–.38 30.17S–.03 69.36W–.05 68–5 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 04 15 11 47.0–1.2 33.06S–.05 69.34W–.05 7–9 24 0-152
SJA V 04 15 11 45.3–1.3 33.15S 69.33W 10–6 3.7W,3.7L **¶16708812**
IDC V 04 15 12 11.9–2.6 32.01S 69.05W 181–27 3.7,3.3
ISC Event type ke.
SJA Error ellipse: s-maj=5.4km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=20.6km az=111.0.
GUC V 04 20 03 18.4–.48 23.71S 67.29W 248–17 3.6L
¶601517331
GUC Error ellipse: s-maj=8.2km s-min=14.3km az=-1.0.
ISC V 05 01 45 06.5–1.3 24.24S–.06 67.02W–.05 181 20 2-7
ISCJB V 05 01 45 06.5–.48 24.24S–.05 67.05W–.05 181 **¶16988358**
SJA V 05 01 45 06.0–.59 24.27S 66.89W 203–14 3.2W,3.2L
GUC V 05 01 45 09.0–.48 23.90S 67.61W 245–14 4.4L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.7km az=37.4.
SJA Error ellipse: s-maj=3.7km s-min=8.1km az=-1.0.
GUC Error ellipse: s-maj=7.5km s-min=14.8km az=-1.0.

ISC V 05 11 21 05.5–.63 24.19S–.04 67.21W–.04 177–6 4.2b 322 2-170
SCB V 05 11 21 01.3–.80 24.22S 67.52W 128 3.7L ¶16497737
SJA V 05 11 21 03.7–.80 24.18S 67.11W 201–7 3.5W,3.2L
IDC V 05 11 21 04.3–1.1 24.15S 66.93W 168–9 4.2,3.9
ISCJB V 05 11 21 04.7–.23 24.21S–.03 67.21W–.03 181–1 4.1b,3.9
NEIC V 05 11 21 05.0–.64 24.08S 66.84W 166–5 4.2,4.2b
GUC V 05 11 21 08.0–.54 24.22S 67.34W 136–45 4.9L,4.2b
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=18.6km s-min=11.2km az=21.0.
SJA Error ellipse: s-maj=2.3km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=16.6km s-min=11.7km az=30.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=139.3.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.8km az=53.0.
GUC Error ellipse: s-maj=8.1km s-min=17.7km az=-1.0.
ISC V 06 03 51 04.8–1.4 23.96S–.09 67.16W–.05 178 21 2-4
SJA V 06 03 51 03.1–.38 23.94S 67.07W 200–6 2.5W,1.9L ¶16988380
ISCJB V 06 03 51 05.0–.73 23.94S–.08 67.20W–.05 178 2.5W,1.9L
GUC V 06 03 51 06.1–.50 23.66S 67.73W 243–11 3.7L,1.9L
ISC Event type ke.
SJA Error ellipse: s-maj=3.9km s-min=2.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.3km az=18.2.
GUC Error ellipse: s-maj=5.4km s-min=11.2km az=-1.0.
ISC V 06 09 25 49.4–.86 30.30S–.07 69.32W–.08 41–7 4.0b 25 1-153
NEIC V 06 09 25 44.4–.57 30.60S 69.34W 10 3.8 ¶16709004
SJA V 06 09 25 47.8–.46 30.24S 69.28W 5–2 4.0L,3.6W
IDC V 06 09 25 49.4–.83 30.39S 69.30W 40–5 3.8,3.8b
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=12.8km s-min=10.5km az=67.0. Felt [III] in the San Jose de Jachal area.
SJA Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=25.6km az=81.0.
ISC V 07 00 29 13.1–.86 30.61S–.04 70.91W–.07 91–8 3.9b 40 0-88
ISCJB V 07 00 29 12.8–.41 30.61S–.03 70.93W–.07 101–4 4.0b ¶16649720
NEIC V 07 00 29 12.0 30.63S 70.70W 82 4.1b
GUC V 07 00 29 12.9–.51 30.63S 70.70W 82–5 4.1L
SJA V 07 00 29 13.1–.44 30.86S 70.78W 157–7 4.0L,3.8W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=4.0km az=169.8.
NEIC Event type fe. Felt [III] at Coquimbo and La Serena. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=19.4km az=-1.0.
SJA Error ellipse: s-maj=2.4km s-min=5.9km az=-1.0.
ISC V 07 18 39 59.5–.92 33.44S–.07 70.51W–.05 99–6 33 0-153
ISCJB V 07 18 39 58.7–.64 33.45S–.06 70.51W–.06 104–4 3.5b ¶16709111
SJA V 07 18 39 58.9–.58 33.35S 70.49W 103–3 3.7L,3.6W
GUC V 07 18 39 59.5–.49 33.45S 70.67W 103–3 4.5L,3.6W
IDC V 07 18 40 01.3–6.7 33.57S 70.37W 119–59 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=6.8km az=152.9.
SJA Error ellipse: s-maj=3.8km s-min=2.6km az=-1.0.
GUC Error ellipse: s-maj=4.2km s-min=8.0km az=-1.0.
IDC Error ellipse: s-maj=120.1km s-min=43.2km az=67.0.
ISC V 09 22 24 41.8–1.9 24.31S–.04 68.63W–.05 5–12 4.4b 42 2-156
NEIC V 09 22 24 46.3–1.1 24.30S 68.61W 39–10 4.3b ¶16709295
IDC V 09 22 24 48.8–3.4 24.25S 68.45W 58–28 4.0,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.1km az=90.0.
IDC Error ellipse: s-maj=33.3km s-min=22.3km az=61.0.
GUC V 10 02 19 00.5–.37 23.95S 67.80W 223–12 3.8L
¶601517376
GUC Error ellipse: s-maj=4.8km s-min=10.5km az=-1.0.
ISC V 11 04 55 58.5–3.8 32.4S–.10 70.7W–.10 106–34 13 1-2
ISCJB V 11 04 55 58.5–2.0 32.42S–.10 70.7W–.10 107–17 ¶16988500
SJA V 11 04 55 58.7–.36 32.29S 70.70W 88–8 3.3
GUC V 11 04 55 58.9–.32 32.42S 70.66W 99–8 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=10.8km az=138.1.
SJA Error ellipse: s-maj=3.4km s-min=2.8km az=-1.0.
GUC Error ellipse: s-maj=7.0km s-min=11.2km az=-1.0.
GUC V 11 12 03 31.7–.41 23.14S 67.48W 260–8 3.8L
¶601517398
GUC Error ellipse: s-maj=4.1km s-min=10.1km az=-1.0.
IDC V 11 12 57 17.1–2.3 24.15S 68.03W 240–20 3.5,3.2
¶17203391
IDC Error ellipse: s-maj=59.9km s-min=36.1km az=90.0.
GUC V 12 21 40 31.0–.46 23.75S 67.46W 257–14 3.5L
¶601517405
GUC Error ellipse: s-maj=9.4km s-min=14.5km az=-1.0.
GUC V 13 04 31 18.0–.35 23.99S 67.68W 230–11 4.0L
¶601517407
GUC Error ellipse: s-maj=6.4km s-min=10.6km az=-1.0.
ISC V 14 13 53 22.0–1.2 24.05S–.10 67.06W–.10 181 9 2-147
SJA V 14 13 53 18.8–.61 24.28S 67.12W 186–26 3.4W,2.6L ¶16709856
IDC V 14 13 53 21.6–1.7 23.98S 66.97W 150–21 3.9,3.9b
ISC Event type ke.
SJA Error ellipse: s-maj=5.9km s-min=20.2km az=-1.0.
IDC Error ellipse: s-maj=27.5km s-min=22.2km az=66.0.
ISC V 14 20 44 08.0–.52 28.38S–.04 69.08W–.07 108 4.3b 51 1-151
NEIC V 14 20 44 05.8–.60 28.50S 68.68W 81–6 4.7b ¶16709889
IDC V 14 20 44 06.5–2.6 28.49S 68.92W 83–21 4.0,3.9
ISCJB V 14 20 44 07.3–.31 28.37S–.03 69.03W–.08 108 4.5b,3.9
SJA V 14 20 44 08.0–.78 28.45S 68.96W 120–9 4.1L,3.9W
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=5.9km az=88.0.
IDC Error ellipse: s-maj=27.0km s-min=18.2km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=3.3km az=170.6.
SJA Error ellipse: s-maj=4.5km s-min=9.7km az=-1.0.
ISC V 16 10 35 46.1–1.6 24.49S–.06 68.79W–.03 11–12 23 1-4
GUC V 16 10 35 52.1–.47 24.50S 69.09W 70 3.7L ¶16988630
SJA V 16 10 36 06.5–1.2 24.29S 67.56W 172–87 2.4W,1.8L
ISC Event type ke.
GUC Error ellipse: s-maj=2.7km s-min=3.7km az=-1.0.
SJA Error ellipse: s-maj=11.9km s-min=51.5km az=-1.0.
ISC V 18 20 30 15.6–2.8 24.17S–.07 67.21W–.04 189–30 23 2-3
SJA V 18 20 30 15.8–1.4 24.13S 67.09W 197–22 3.1W,2.8L ¶16988667
ISCJB V 18 20 30 17.6–1.3 24.16S–.06 67.27W–.04 164–18 3.1W,2.8L
GUC V 18 20 30 19.2–.59 23.92S 67.74W 223–22 4.2L,2.8L
ISC Event type ke.
SJA Error ellipse: s-maj=7.7km s-min=10.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.3km az=12.6.
GUC Error ellipse: s-maj=10.5km s-min=17.4km az=-1.0.
ISC V 19 01 24 41.5–2.3 32.54S–.08 70.19W–.08 107–20 21 1-4
ISCJB V 19 01 24 40.8–1.6 32.55S–.08 70.19W–.09 113–17 ¶16988671
SJA V 19 01 24 41.7–.69 32.47S 70.20W 90–11 3.4W,2.9L
GUC V 19 01 24 41.7–.36 32.43S 70.23W 97–10 3.2L,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=11.1km az=141.6.
SJA Error ellipse: s-maj=4.8km s-min=4.3km az=-1.0.
GUC Error ellipse: s-maj=5.4km s-min=10.0km az=-1.0.
ISC V 20 10 34 19.0–.65 24.22S–.04 67.20W–.04 171–5 4.2b 99 2-170
SCB V 20 10 34 17.3–.74 24.00S 67.43W 150 3.5L ¶603241705
ISCJB V 20 10 34 18.5–.25 24.22S–.02 67.19W–.03 181–2 4.2b
NEIC V 20 10 34 18.7–.80 24.24S 67.03W 168–8 4.3b,4.1
SJA V 20 10 34 18.1–.89 24.18S 67.13W 191–8 4.0W,3.4L
IDC V 20 10 34 19.6–1.3 24.12S 67.00W 173–10 4.1,3.9
GUC V 20 10 34 20.9–.32 23.95S 67.58W 218–4 4.9L,3.9
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=17.5km s-min=11.6km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=152.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=10.8km az=68.0.
SJA Error ellipse: s-maj=2.6km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=12.8km az=10.0.
GUC Error ellipse: s-maj=3.1km s-min=4.3km az=-1.0.
ISC V 20 11 02 52.2–.52 29.31S–.04 69.53W–.04 124–4 4.3b 270 1-174
NEIC V 20 11 02 49.7–.50 29.28S 69.28W 98–4 4.3b,4.2 ¶16531780
ISCJB V 20 11 02 50.4–.28 29.23S–.03 69.38W–.05 116–2 4.3b,4.2
SJA V 20 11 02 50.9–.87 29.36S 69.54W 127–9 4.3W,4.2L
GUC V 20 11 02 52.4–.35 29.30S 69.67W 127–8 4.2L,4.2L
IDC V 20 11 02 53.3–.80 29.43S 69.40W 131–5 4.3,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.2km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.2km az=160.6.
SJA Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0.
GUC Error ellipse: s-maj=1.5km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=17.0km az=35.0.
ISC V 22 11 45 13.7–.91 24.26S–.05 67.29W–.07 181 29 2-77
ISCJB V 22 11 45 13.2–.44 24.31S–.03 67.35W–.06 181 3.4b ¶16710610
SJA V 22 11 45 13.0–1.3 24.22S 67.30W 185–12 3.2L,3.1W
IDC V 22 11 45 14.1–1.6 24.22S 67.22W 163–23 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.2km az=173.2.
SJA Error ellipse: s-maj=4.2km s-min=5.9km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=23.0km az=80.0.
GUC V 22 13 32 41.3–.37 24.05S 68.90W 121–5 3.8L
¶601517480
GUC Error ellipse: s-maj=3.6km s-min=3.4km az=-1.0.
ISC V 22 19 38 06.3–3.1 33.5S–.10 70.45W–.08 115–18 30 0-5
ISCJB V 22 19 38 07.3–1.1 33.39S–.06 70.41W–.06 109–7 ¶16988879
SJA V 22 19 38 07.4–.88 33.35S 70.41W 106–6 3.9W,3.4L
GUC V 22 19 38 08.5–.60 33.43S 70.60W 96–4 3.6L,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=7.3km az=149.8.
SJA Error ellipse: s-maj=4.6km s-min=4.3km az=-1.0.
GUC Error ellipse: s-maj=10.5km s-min=17.0km az=-1.0.
SJA V 23 14 01 56.4–.84 31.94S 70.83W 146–6 3.6L,3.3W
¶16988925
SJA Error ellipse: s-maj=3.3km s-min=6.3km az=-1.0.
SJA V 24 13 19 08.3–.52 30.35S 69.43W 9–2 3.5L,3.1W
¶16988946
SJA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
SJA V 24 16 02 47.7–.93 30.97S 69.94W 113–8 4.0L,3.5W
¶16988949
SJA Error ellipse: s-maj=2.9km s-min=7.2km az=-1.0.
ISC V 25 08 30 49.4–2.0 33.0S–.10 69.5W–.10 4–16 15 1-2
GUC V 25 08 30 50.8–.51 33.00S 69.55W 16–15 1.9L ¶16988960
SJA V 25 08 30 51.0–.41 32.86S 69.61W 3–6 2.9
ISC Event type ke.
GUC Error ellipse: s-maj=4.3km s-min=9.1km az=-1.0.
SJA Error ellipse: s-maj=6.1km s-min=4.2km az=-1.0.
ISC V 25 10 58 27.0–.65 33.68S–.05 70.10W–.07 120–5 3.9b 51 0-164
ISCJB V 25 10 58 26.0–.34 33.72S–.04 70.08W–.07 122–3 4.4b ¶16710896
SJA V 25 10 58 26.2–.98 33.69S 70.09W 111–31 3.8
IDC V 25 10 58 27.4–2.4 33.69S 69.94W 119–22 4.1,3.9
NEIC V 25 10 58 27.0 33.66S 70.24W 121 4.6b,3.9
GUC V 25 10 58 27.2–.45 33.66S 70.25W 121–2 4.6L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.3km az=15.5.
SJA Error ellipse: s-maj=18.2km s-min=17.8km az=-1.0.
IDC Error ellipse: s-maj=26.4km s-min=16.1km az=90.0.
NEIC Event type fe. Felt [II] at Rancagua, San Bernardo, Santiago and Tiltil. After GUC.
GUC Error ellipse: s-maj=3.8km s-min=6.6km az=-1.0.
ISC V 26 17 42 34.7–.86 30.30S–.05 69.33W–.07 35 17 1-153
ISCJB V 26 17 42 32.0–.79 30.19S–.05 69.23W–.06 33 3.4b ¶601517515
GUC V 26 17 42 33.5–.31 30.40S 69.56W 20–2 3.9L
IDC V 26 17 43 08.0–6.3 24.14S 66.67W 114–38 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.0km az=6.4.
GUC Error ellipse: s-maj=0.9km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=112.8km s-min=27.8km az=38.0.
ISC V 27 02 42 49.2–.83 28.33S–.04 69.15W–.04 105–8 3.7b 46 1-151
ISCJB V 27 02 42 48.3–.35 28.36S–.03 69.16W–.04 111–5 3.7b ¶16711023
SJA V 27 02 42 49.6–.84 28.47S 68.97W 132–4 4.5L,4.3W
GUC V 27 02 42 50.5–.56 28.31S 69.52W 124–40 4.6L,4.3W
IDC V 27 02 42 53.9–8.2 27.93S 68.70W 128–54 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.3km az=3.3.
SJA Error ellipse: s-maj=2.6km s-min=5.0km az=-1.0.
GUC Error ellipse: s-maj=13.1km s-min=42.0km az=-1.0.
IDC Error ellipse: s-maj=96.9km s-min=24.5km az=28.0.
ISC V 30 10 48 08.7–.70 24.25S–.05 67.28W–.04 169–6 4.2b 77 2-147
SCB V 30 10 48 03.0–.88 24.37S 67.48W 125 4.0L ¶16577352
SJA V 30 10 48 08.2–.40 24.29S 67.20W 189–8 4.0W,4.0L
ISCJB V 30 10 48 08.3–.28 24.30S–.03 67.31W–.03 176–3 4.0b,4.0L
NEIC V 30 10 48 08.0–.93 24.35S 67.10W 163–15 4.5b,4.0
IDC V 30 10 48 08.8–1.2 24.18S 66.99W 163–10 4.1,3.9
GUC V 30 10 48 10.2–.39 24.21S 67.81W 214–14 5.3L,3.9
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=20.2km s-min=14.6km az=4.0.
SJA Error ellipse: s-maj=2.4km s-min=6.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=135.7.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=11.2km az=89.0.
IDC Error ellipse: s-maj=17.3km s-min=13.9km az=34.0.
GUC Error ellipse: s-maj=4.1km s-min=11.9km az=-1.0.
ISC V 31 12 26 11.3–.82 35.37S–.05 71.00W–.09 100–8 4.1b 39 1-157
SJA V 31 12 26 09.7–.89 35.36S 71.19W 137–23 4.1W,3.1L ¶16702388
ISCJB V 31 12 26 10.5–.39 35.39S–.04 70.95W–.10 106–5 3.8b,3.1L
IDC V 31 12 26 11.5–2.6 35.39S 70.68W 97–23 4.2,3.9
GUC V 31 12 26 12.1–.63 35.33S 71.07W 105–5 4.2L,3.9
ISC Event type ke.
SJA Error ellipse: s-maj=4.3km s-min=22.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=4.6km az=20.5.
IDC Error ellipse: s-maj=37.3km s-min=13.5km az=96.0.
GUC Error ellipse: s-maj=4.4km s-min=9.9km az=-1.0.
ISC VI 01 00 56 54.9–1.3 30.42S–.04 70.59W–.07 50 22 2-6
GUC VI 01 00 56 52.4–.78 30.43S 71.11W 67–349 3.8L ¶16989125
SJA VI 01 00 56 52.5–1.1 30.48S 70.46W 128–26 4.0W,3.9L
ISCJB VI 01 00 56 53.9–.62 30.42S–.03 70.59W–.07 50 4.0W,3.9L
ISC Event type ke.
ISCJB Event type ke.
GUC VI 02 08 46 01.4–.31 33.10S 70.33W 106–3 2.6L
¶601517643
GUC Error ellipse: s-maj=3.4km s-min=5.4km az=-1.0.
ISC VI 02 15 43 27.6–1.2 24.21S–.05 67.14W–.04 178 28 2-5
SJA VI 02 15 43 26.7–.57 24.23S 67.08W 193–7 2.8W,2.4L ¶16989161
ISCJB VI 02 15 43 27.4–.41 24.22S–.04 67.18W–.04 178 2.8W,2.4L
GUC VI 02 15 43 29.5–.33 23.96S 67.65W 232–10 4.0L,2.4L
ISC Event type ke.
SJA Error ellipse: s-maj=2.1km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.8km az=34.6.
GUC Error ellipse: s-maj=4.5km s-min=8.8km az=-1.0.
ISC VI 04 06 15 20.5–2.4 33.19S–.08 70.17W–.07 128–15 33 0-4
ISCJB VI 04 06 15 21.5–1.1 33.15S–.06 70.13W–.06 120–7 ¶16989195
SJA VI 04 06 15 21.8–1.1 33.10S 70.06W 126–6 3.2W,3.1L
GUC VI 04 06 15 22.3–.36 33.00S 70.13W 111–3 3.3L,3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=6.1km az=142.6.
SJA Error ellipse: s-maj=5.0km s-min=8.0km az=-1.0.
GUC Error ellipse: s-maj=3.3km s-min=4.0km az=-1.0.
ISC VI 05 13 50 08.2–.83 31.64S–.04 70.29W–.04 108–8 3.8b 48 1-124
IDC VI 05 13 50 03.7–5.0 31.77S 70.17W 64–42 4.0,4.0L ¶16856390
ISCJB VI 05 13 50 07.6–.43 31.64S–.03 70.27W–.04 115–4 3.7b,4.0L
GUC VI 05 13 50 07.9–.41 31.64S 70.60W 112–5 3.9L,4.0L
SJA VI 05 13 50 08.0–1.2 31.68S 70.26W 100–13 3.9W,3.9L

ISC Event type ke.
IDC Error ellipse: s-maj=39.4km s-min=29.2km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.2km az=34.1.
GUC Error ellipse: s-maj=1.0km s-min=7.8km az=-1.0.
SJA Error ellipse: s-maj=5.0km s-min=6.1km az=-1.0.

ISC	**VI**	**06 21 22 49.5–.66**	**24.20S–.04**	**67.19W–.04**	**179–6**	**4.5b**	**109**	**2-156**
SCB	VI	06 21 22 46.2–.98	24.17S	67.32W	150	3.7L		¶16856518
SJA	VI	06 21 22 48.9–.66	24.25S	67.16W	190–6	4.0W,3.3L		
ISCJB	VI	06 21 22 48.7–.26	24.25S–.03	67.20W–.03	188–2	4.4b,3.3L		
NEIC	VI	06 21 22 49.0–.62	24.21S	67.01W	173–5	4.7b,3.3L		
IDC	VI	06 21 22 49.8–1.0	24.11S	66.97W	173–8	4.3,4.0		
GUC	VI	06 21 22 51.9–.51	24.00S	67.69W	226–14	5.1L,4.0		

ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=23.0km s-min=14.3km az=26.0.
SJA Error ellipse: s-maj=2.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=135.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.5km az=72.0.
IDC Error ellipse: s-maj=15.0km s-min=11.7km az=35.0.
GUC Error ellipse: s-maj=6.2km s-min=12.2km az=-1.0.

ISC	**VI**	**07 03 46 19.9–1.2**	**33.04S–.09**	**69.42W–.10**	**35**	**3.9b**	**18**	**0-154**
SJA	VI	07 03 46 15.7–.88	32.97S	69.45W	10–4	3.9W,3.7L		¶16856543
IDC	VI	07 03 46 15.5–1.9	32.97S	69.31W	0	4.4L,4.0		
ISCJB	VI	07 03 46 17.6–1.1	33.10S–.08	69.5W–.10	33	3.6b,4.0		

ISC Event type ke.
ISCJB Event type ke.

SJA	**VI**	**08 20 57 27.5–.87**	**30.58S**	**69.14W**	**7–13**	**3.7W,3.1L**		
								¶16989282

SJA Error ellipse: s-maj=3.0km s-min=5.4km az=-1.0.

ISC	**VI**	**10 08 15 06.6–3.3**	**33.0S–.10**	**70.18W–.07**	**110–24**		**19**	**0-2**
SJA	VI	10 08 15 05.5–.52	32.97S	70.16W	112–8	3.7W,3.1L		¶16989308
ISCJB	VI	10 08 15 06.1–1.5	33.0S–.10	70.17W–.07	113–13	3.7W,3.1L		
GUC	VI	10 08 15 06.1–.65	32.88S	70.13W	103–8	3.5L,3.1L		

ISC Event type ke.
SJA Error ellipse: s-maj=6.0km s-min=3.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=9.6km az=165.7.
GUC Error ellipse: s-maj=7.9km s-min=9.9km az=-1.0.

GUC	**VI**	**10 20 42 45.9–.53**	**34.47S**	**70.77W**	**108–4**	**4.0L**	
							¶601517740

GUC Error ellipse: s-maj=2.6km s-min=4.2km az=-1.0.

SJA	**VI**	**11 17 16 03.8–.81**	**28.34S**	**69.01W**	**112–5**	**3.5W,3.4L**	
							¶16989331

SJA Error ellipse: s-maj=2.8km s-min=2.5km az=-1.0.

ISC	**VI**	**12 15 47 45.5–.83**	**24.47S–.05**	**67.56W–.04**	**161–10**		**38**	**2-147**
SJA	VI	12 15 47 44.2–.37	24.46S	67.64W	165–9	2.6W,2.0L		¶16684519
ISCJB	VI	12 15 47 45.1–.49	24.51S–.04	67.62W–.04	165–7	3.6b,2.0L		
NEIC	VI	12 15 47 47.8–1.1	24.29S	67.19W	146–16	4.0b,2.0L		
IDC	VI	12 15 47 48.1–3.1	24.23S	67.25W	149–29	3.9,3.8b		

ISC Event type se.
SJA Error ellipse: s-maj=1.7km s-min=6.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=44.8.
NEIC Event type se. Error ellipse: s-maj=22.3km s-min=14.2km az=91.0.
IDC Error ellipse: s-maj=40.9km s-min=24.0km az=158.0.

ISC	**VI**	**14 01 23 14.3–.91**	**23.82S–.07**	**67.09W–.07**	**189–7**	**3.7b**	**28**	**2-146**
SJA	VI	14 01 23 12.7–.83	23.89S	67.21W	190–10	3.4W,2.5L		¶16730439
ISCJB	VI	14 01 23 13.4–.58	23.90S–.05	67.12W–.06	195–5	3.6b,2.5L		
IDC	VI	14 01 23 13.5–1.2	23.82S	67.00W	176–12	4.0,3.6		

ISC Event type ke.
SJA Error ellipse: s-maj=3.9km s-min=7.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.0km az=135.9.
IDC Error ellipse: s-maj=19.3km s-min=14.9km az=171.0.

ISC	**VI**	**15 05 47 14.3–2.1**	**32.95S–.07**	**70.19W–.05**	**111–14**		**39**	**0-4**
ISCJB	VI	15 05 47 13.5–.88	32.96S–.05	70.18W–.05	117–7			¶16989392
SJA	VI	15 05 47 13.0–.53	32.96S	70.18W	113–2	3.9W,2.9L		
GUC	VI	15 05 47 14.9–.58	32.89S	70.30W	105–5	3.5L,2.9L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.2km az=149.2.
SJA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
GUC Error ellipse: s-maj=5.8km s-min=9.9km az=-1.0.

ISC	**VI**	**16 13 38 46.3–.76**	**24.29S–.06**	**67.67W–.09**	**175**	**3.7b**	**25**	**2-147**
SJA	VI	16 13 38 40.5–.61	24.02S	67.73W	244–13	3.9W,3.4L		¶16730725
ISCJB	VI	16 13 38 45.8–.63	24.35S–.04	67.78W–.08	175	3.5b,3.4L		
IDC	VI	16 13 38 52.8–2.1	23.83S	66.59W	212–19	4.0,3.6		

ISC Event type ke.
SJA Error ellipse: s-maj=4.0km s-min=11.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.6km az=170.7.
IDC Error ellipse: s-maj=23.2km s-min=17.2km az=56.0.

ISC	**VI**	**20 08 48 11.2–2.1**	**33.64S–.08**	**70.13W–.04**	**1–13**		**31**	**0-8**
SJA	VI	20 08 48 07.7–.28	33.73S	70.28W	10	3.4W,3.3L		¶16989491
ISCJB	VI	20 08 48 13.9–.79	33.45S–.06	70.09W–.03	13–5	3.4W,3.3L		
GUC	VI	20 08 48 13.3–.45	33.39S	70.08W	12–1	2.4L,3.3L		

ISC Event type ke.
SJA Error ellipse: s-maj=1.7km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.4km az=173.2.
GUC Error ellipse: s-maj=2.1km s-min=2.9km az=-1.0.

ISC	**VI**	**21 06 00 22.8–1.3**	**33.35S–.07**	**70.09W–.04**	**6–8**	**4.1b**	**30**	**0-155**
ISCJB	VI	21 06 00 22.0–.82	33.40S–.06	70.03W–.04	5–7	4.0s,4.0b		¶16731112
SJA	VI	21 06 00 22.1–.42	33.36S	70.05W	26–2	4.4W,3.8L		
GUC	VI	21 06 00 22.1–.30	33.38S	70.03W	5–1	3.5L,3.8L		
IDC	VI	21 06 00 24.8–1.3	33.13S	69.87W	0	4.2,4.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.3km az=174.6.
SJA Error ellipse: s-maj=7.2km s-min=1.3km az=-1.0.
GUC Error ellipse: s-maj=1.2km s-min=1.5km az=-1.0.
IDC Error ellipse: s-maj=36.9km s-min=26.3km az=93.0.

ISC	**VI**	**23 04 21 08.6–1.4**	**35.41S–.04**	**70.74W–.05**	**4–10**	**4.4b**	**42**	**1-153**
GUC	VI	23 04 21 14.9–.39	35.27S	71.18W	69–1	4.3L		¶16731282
NEIC	VI	23 04 21 14.0	35.27S	71.18W	69	4.3		
IDC	VI	23 04 21 18.1–3.9	34.93S	71.26W	54–33	3.9,3.8		

ISC Event type fe.
GUC Error ellipse: s-maj=1.9km s-min=4.4km az=-1.0.
NEIC Event type fe. Felt [III] at Lolol, Molina, Romeral, San Fernando, San Javier, Santa Cruz and Talca; [II] at Constitucion, Curico, Iloca, Linares, Maule, Paredones, Pencahue and Rancagua. After GUC.
IDC Error ellipse: s-maj=84.1km s-min=26.9km az=92.0.

ISC	**VI**	**23 05 18 10.8–2.7**	**24.1S–.10**	**67.2W–.50**	**181**		**10**	**2-147**
SJA	VI	23 05 18 05.7–.52	24.12S	67.31W	220–18	2.6W,2.6L		¶16731285
ISCJB	VI	23 05 18 09.6–1.5	24.19S–.09	67.3W–.20	181	3.3b,2.6L		
IDC	VI	23 05 18 12.1–11	23.99S	66.90W	176–89	3.8,3.4		

ISC Event type ke.
SJA Error ellipse: s-maj=5.1km s-min=27.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=32.2km s-min=7.6km az=162.1.
IDC Error ellipse: s-maj=131.8km s-min=88.0km az=57.0.

GUC	**VI**	**24 15 26 56.0–.50**	**23.92S**	**67.61W**	**219–16**	**4.3L**		
								¶601517860

GUC Error ellipse: s-maj=7.5km s-min=13.2km az=-1.0.

ISC	**VI**	**24 18 12 46.2–.51**	**29.01S–.04**	**69.58W–.04**	**104–4**	**4.8b**	**381**	**1-176**
NEIC	VI	24 18 12 43.9–.54	29.04S	69.44W	87–4	4.9b		¶16681343
SJA	VI	24 18 12 44.7–1.1	29.03S	69.62W	123–8	4.4L,4.3W		
ISCJB	VI	24 18 12 45.3–.26	28.98S–.03	69.50W–.04	108–2	4.8b,4.3W		
GUC	VI	24 18 12 45.1–.65	29.08S	69.56W	105–22	4.4L,4.3W		
IDC	VI	24 18 12 47.4–.76	29.04S	69.47W	115–6	4.5,4.3		
BJI	VI	24 18 12 49.1	29.00S	69.50W	107	5.2b,4.3		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.2km az=72.0.
SJA Error ellipse: s-maj=4.6km s-min=6.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.0km az=157.3.
GUC Error ellipse: s-maj=1.8km s-min=19.6km az=-1.0.
IDC Error ellipse: s-maj=20.2km s-min=15.3km az=81.0.

ISC	**VI**	**25 04 27 15.2–3.4**	**32.1S–.10**	**70.22W–.08**	**108–26**		**20**	**1-1**
SJA	VI	25 04 27 14.7–.66	32.04S	70.21W	99–6	2.6W,2.0L		¶16989558
ISCJB	VI	25 04 27 15.1–1.6	32.11S–.09	70.21W–.08	110–14	2.6W,2.0L		
GUC	VI	25 04 27 15.7–.74	32.13S	70.23W	108–17	2.6L,2.0L		

ISC Event type ke.
SJA Error ellipse: s-maj=4.3km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=6.3km az=143.0.
GUC Error ellipse: s-maj=9.7km s-min=11.7km az=-1.0.

ISC	**VI**	**27 14 03 53.4–1.3**	**33.37S–.07**	**70.09W–.04**	**17–10**		**19**	**0-4**
ISCJB	VI	27 14 03 53.5–1.1	33.46S–.07	70.08W–.04	12–6			¶16989623
GUC	VI	27 14 03 53.2–.44	33.40S	70.10W	17–1	1.9L		
SJA	VI	27 14 03 53.3–.97	33.33S	70.09W	11–15	2.8W,2.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=5.1km az=161.3.
GUC Error ellipse: s-maj=2.5km s-min=3.2km az=-1.0.
SJA Error ellipse: s-maj=5.5km s-min=6.6km az=-1.0.

ISC	**VI**	**27 21 24 11.6–2.4**	**33.15S–.08**	**70.28W–.07**	**122–15**		**31**	**0-5**
ISCJB	VI	27 21 24 12.6–1.0	33.12S–.06	70.23W–.06	115–7			¶16989634
GUC	VI	27 21 24 13.5–.36	33.03S	70.21W	97–3	3.0L		
SJA	VI	27 21 24 13.8–.65	33.01S	70.08W	123–3	2.8W,2.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=6.7km az=143.7.
GUC Error ellipse: s-maj=4.1km s-min=4.7km az=-1.0.
SJA Error ellipse: s-maj=2.9km s-min=4.6km az=-1.0.

GUC	**VI**	**28 05 23 09.2–.52**	**23.90S**	**67.53W**	**226–14**	**3.7L**	
							¶601517907

GUC Error ellipse: s-maj=6.5km s-min=10.1km az=-1.0.

ISC	**VI**	**28 14 18 12.7–.85**	**24.27S–.05**	**67.09W–.05**	**192–8**		**38**	**2-151**
SJA	VI	28 14 18 10.9–.44	24.18S	67.07W	212–5	3.0W,2.9L		¶16731707
ISCJB	VI	28 14 18 11.6–.53	24.23S–.04	67.05W–.05	208–8	3.0b,2.9L		
IDC	VI	28 14 18 15.5–2.7	23.91S	66.96W	191–19	3.9,3.6		

ISC Event type ke.
SJA Error ellipse: s-maj=2.0km s-min=5.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.1km az=155.3.
IDC Error ellipse: s-maj=37.4km s-min=24.1km az=142.0.

SJA	**VI**	**29 08 59 47.5–.34**	**31.78S**	**70.91W**	**105–4**	**3.6W,2.7L**	
							¶16989690

SJA Error ellipse: s-maj=1.6km s-min=1.9km az=-1.0.

SJA	**VI**	**29 11 08 17.0–.27**	**29.48S**	**70.00W**	**102–7**	**3.6W,2.5L**	
							¶16989693

SJA Error ellipse: s-maj=2.6km s-min=4.0km az=-1.0.

GUC	**VI**	**30 03 49 56.8–.35**	**23.58S**	**67.44W**	**240–9**	**4.1L**	
							¶601517933

GUC Error ellipse: s-maj=3.7km s-min=8.5km az=-1.0.

ISC	**VI**	**30 09 15 41.8–3.1**	**33.4S–.10**	**70.65W–.09**	**94–16**		**33**	**0-5**
ISCJB	VI	30 09 15 40.7–1.1	33.44S–.06	70.69W–.08	102–6			¶16989716
SJA	VI	30 09 15 40.4–1.1	33.39S	70.71W	104–7	3.1W,2.8L		
GUC	VI	30 09 15 42.6–.43	33.28S	70.52W	91–3	3.6L,2.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.4km az=30.1.
SJA Error ellipse: s-maj=5.4km s-min=6.9km az=-1.0.
GUC Error ellipse: s-maj=3.6km s-min=4.3km az=-1.0.

ISC	**VI**	**30 09 52 59.5–.80**	**32.96S–.05**	**70.05W–.04**	**113–7**		**50**	**0-155**
IDC	VI	30 09 52 57.3–.20	32.90S	70.05W	86–140	3.6,3.5		¶16731844
ISCJB	VI	30 09 52 58.7–.53	32.97S–.04	70.04W–.04	120–4	3.3b,3.5		
SJA	VI	30 09 52 58.2–1.4	33.00S	70.04W	113–7	3.7L,3.6W		
GUC	VI	30 09 52 59.3–.48	32.85S	70.12W	114–4	4.5L,3.6W		

ISC Event type ke.
IDC Error ellipse: s-maj=206.6km s-min=35.1km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.3km az=142.0.
SJA Error ellipse: s-maj=4.3km s-min=4.4km az=-1.0.
GUC Error ellipse: s-maj=4.8km s-min=5.9km az=-1.0.

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IDC	**I**	**01 10 30 52.8–1.7**	**24.00S**	**67.00W**	**176–15**	**4.2,3.8**		
								¶17189122

IDC Error ellipse: s-maj=24.1km s-min=20.1km az=174.0.

ISC	**I**	**06 19 46 48.6–.79**	**23.11S–.06**	**66.74W–.05**	**200**		**33**	**1-146**
SJA	I	06 19 46 43.9–.55	23.01S	66.54W	269–9	3.3L,3.1W		¶17189609
IDC	I	06 19 46 48.3–1.4	23.11S	66.56W	200–16	4.0,3.6		
ISCJB	I	06 19 46 49.5–.55	23.18S–.05	66.77W–.05	200	3.5b,3.6		
GUC	I	06 19 46 50.6–.51	23.07S	67.15W	234–13	4.6L,3.6		

ISC Event type ke.
SJA Error ellipse: s-maj=6.3km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=17.5km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.4km az=33.6.
GUC Error ellipse: s-maj=5.9km s-min=10.3km az=-1.0.

ISC	**I**	**10 00 56 19.1–.71**	**23.96S–.05**	**66.95W–.05**	**200**	**3.7b**	**44**	**2-146**
ISCJB	I	10 00 56 18.6–.33	23.98S–.03	66.97W–.04	200	3.6b		¶17189804
SJA	I	10 00 56 18.7–1.0	23.98S	66.90W	209–10	2.6L,2.4W		
IDC	I	10 00 56 19.2–1.6	23.95S	66.85W	190–17	4.2,3.8		
GUC	I	10 00 56 20.8–.30	23.76S	67.44W	237–10	4.5L,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.3km az=144.7.
SJA Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=20.3km az=148.0.
GUC Error ellipse: s-maj=2.7km s-min=8.7km az=-1.0.

IDC	**I**	**14 22 48 23.8–2.2**	**23.16S**	**66.39W**	**210–26**	**3.8,3.4**		
								¶17190220

IDC Error ellipse: s-maj=40.5km s-min=21.9km az=125.0.

ISC	**I**	**18 23 15 45.6–.71**	**23.91S–.06**	**66.77W–.05**	**205–6**	**4.0b**	**50**	**2-156**
SCB	I	18 23 15 36.7–.53	23.76S	65.62W	250	3.9L		¶17190513
ISCJB	I	18 23 15 44.4–.38	23.96S–.04	66.81W–.04	210–3	3.8b		
IDC	I	18 23 15 45.4–1.1	23.87S	66.64W	199–8	4.2,3.9		
SJA	I	18 23 15 46.0–.66	23.98S	66.72W	200–8	3.1L,3.9		
GUC	I	18 23 15 46.5–.26	23.72S	67.22W	239–9	4.9L,3.9		

ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=82.9km s-min=11.5km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.0km az=32.2.
IDC Error ellipse: s-maj=17.0km s-min=12.1km az=17.0.
SJA Error ellipse: s-maj=2.5km s-min=3.1km az=-1.0.
GUC Error ellipse: s-maj=3.3km s-min=8.2km az=-1.0.

ISC	**I**	**19 06 45 01.7–1.3**	**23.39S–.06**	**66.74W–.05**	**196**		**22**	**1-6**
SJA	I	19 06 44 59.4–.76	23.32S	66.62W	222–12	3.2W,2.5L		¶601516236
GUC	I	19 06 45 00.5–.47	23.22S	67.05W	254–6	4.5L,2.5L		
ISCJB	I	19 06 45 01.5–.50	23.42S–.06	66.78W–.05	196	4.5L,2.5L		

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**20 02 41 02.2–.00**	**23.75S–.09**	**66.80W–.08**	**200**		**17**	**2-146**
ISCJB	I	20 02 41 01.7–.84	23.74S–.07	66.75W–.07	200	3.0b		¶17190596
GUC	I	20 02 41 03.1–.35	23.95S	67.22W	219–11	4.0L		
IDC	I	20 02 41 04.6–2.4	23.57S	66.56W	213–23	3.6,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.4km az=24.8.
GUC Error ellipse: s-maj=10.0km s-min=6.6km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=19.2km az=77.0.

ISC	**I**	**20 18 02 59.9–1.0**	**23.83S–.08**	**66.60W–.09**	**195**		**14**	**1-146**
SJA	I	20 18 02 56.6–.51	23.92S	66.64W	235–13	2.9W,2.5L		¶17190637
ISCJB	I	20 18 02 59.7–.59	23.87S–.08	66.64W–.08	195	3.2b,2.5L		
IDC	I	20 18 02 59.5–1.1	23.64S	66.58W	207–16	3.7,3.2		

ISC Event type ke.
SJA Error ellipse: s-maj=3.5km s-min=22.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.9km az=135.9.
IDC Error ellipse: s-maj=22.4km s-min=20.9km az=14.0.

ISC	**I**	**21 12 04 31.7–3.1**	**23.8S–.70**	**67.0W–.20**	**181**	**3.6b**	**10**	**2-146**
ISCJB	I	21 12 04 30.3–2.8	23.8S–.60	66.9W–.20	181	3.5b		¶17190676
IDC	I	21 12 04 31.5–3.9	23.79S	66.92W	176–15	3.8,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=89.0km s-min=12.5km az=16.3.
IDC Error ellipse: s-maj=99.7km s-min=21.0km az=13.0.

ISC	**I**	**30 10 37 44.8–.61**	**23.91S–.06**	**66.76W–.06**	**200**	**3.8b**	**41**	**1-146**
ISCJB	I	30 10 37 44.3–.36	23.94S–.04	66.83W–.04	200	3.6b		¶17191312
IDC	I	30 10 37 44.5–1.1	23.93S	66.68W	190–10	3.9,3.5		
SJA	I	30 10 37 45.0–.78	23.98S	66.79W	203–10	3.2L,3.0W		

GUC I 30 10 37 46.9–.37 23.74S 67.32W 237–10 4.5L,3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=41.3.
IDC Error ellipse: s-maj=18.0km s-min=14.0km az=17.0.
SJA Error ellipse: s-maj=3.5km s-min=4.5km az=-1.0.
GUC Error ellipse: s-maj=4.7km s-min=7.4km az=-1.0.
ISC II 05 18 12 43.6–.87 23.92S–.07 66.76W–.09 200 32 1-146
SCB II 05 18 12 38.3–1.1 23.96S 66.97W 160 3.5L ¶17191753
SJA II 05 18 12 42.0–.52 23.94S 66.72W 228–7 3.7L,3.4W
ISCJB II 05 18 12 43.1–.40 23.99S–.04 66.83W–.06 200 3.4b,3.4W
IDC II 05 18 12 43.2–1.7 23.90S 66.64W 191–12 3.9,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=179.4km s-min=22.2km az=81.0.
SJA Error ellipse: s-maj=4.7km s-min=9.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.0km az=171.8.
IDC Error ellipse: s-maj=27.6km s-min=18.7km az=14.0.
ISC II 06 18 21 37.0–.99 23.99S–.08 66.99W–.07 181 18 2-147
SJA II 06 18 21 35.2–.72 24.03S 66.90W 216–8 3.3W,2.6L ¶17191817
ISCJB II 06 18 21 37.7–.71 24.02S–.07 67.02W–.08 181 3.5b,2.6L
IDC II 06 18 21 38.8–4.5 23.93S 67.20W 209–37 3.9,3.7
ISC Event type ke.
SJA Error ellipse: s-maj=3.9km s-min=6.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=6.7km az=138.5.
IDC Error ellipse: s-maj=76.4km s-min=43.1km az=115.0.
ISC II 09 05 11 12.8–1.6 22.9S–.10 66.68W–.09 222 10 1-5
ISCJB II 09 05 11 14.4–.50 22.91S–.06 66.73W–.05 222 ¶601516509
GUC II 09 05 11 14.8–.59 22.86S 67.33W 289–17 4.3L
SJA II 09 05 11 15.2–.65 22.92S 66.56W 219–10 2.7W,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.8km az=34.7.
GUC Error ellipse: s-maj=4.7km s-min=18.9km az=-1.0.
SJA Error ellipse: s-maj=4.0km s-min=17.4km az=-1.0.
ISC II 18 03 10 13.9–.71 23.93S–.06 66.81W–.05 206–6 3.8b 44 1-156
ISCJB II 18 03 10 12.8–.35 23.97S–.04 66.84W–.04 211–3 3.6b ¶17192455
SJA II 18 03 10 12.1–.71 24.00S 66.65W 232–8 4.0W,3.1L
IDC II 18 03 10 13.4–2.4 23.96S 66.65W 199–19 4.0,3.7
GUC II 18 03 10 15.7–.52 23.72S 67.25W 241 4.5L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.4km az=39.5.
SJA Error ellipse: s-maj=2.9km s-min=13.1km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=16.2km az=34.0.
GUC Error ellipse: s-maj=6.5km s-min=7.2km az=-1.0.
GUC II 22 11 56 53.7–.35 23.16S 66.93W 200 3.8L ¶601516664
GUC Error ellipse: s-maj=5.4km s-min=5.1km az=-1.0.
ISC II 25 20 29 51.4–1.2 23.14S–.10 66.31W–.08 200 17 3-76
IDC II 25 20 29 16.3–2.7 25.77S 67.22W 0 4.5L,4.1 ¶601516687
ISCJB II 25 20 29 51.8–1.0 23.11S–.09 66.31W–.07 200 3.2b,4.1
GUC II 25 20 29 55.1–.42 23.02S 67.10W 268–19 3.9L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=71.8km s-min=34.0km az=21.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.1km az=0.9.
GUC Error ellipse: s-maj=9.8km s-min=16.9km az=-1.0.
ISC II 27 11 12 33.3–.33 23.88S–.05 66.77W–.05 200 4.6b 463 1-170
SCB II 27 11 12 27.6–1.3 23.58S 65.90W 245 4.0L ¶16166746
SJA II 27 11 12 29.6–.38 23.87S 66.23W 270–5 4.5L,3.7W
ISCJB II 27 11 12 31.8–.16 23.85S–.03 66.69W–.04 200 4.5b,3.7W
NEIC II 27 11 12 32.3–.50 23.88S 66.62W 186–4 4.7b,4.5
BJI II 27 11 12 32.2 23.90S 66.60W 184 5.3b,4.5
IDC II 27 11 12 33.5–2.0 23.82S 66.59W 198–17 4.5,4.1
GUC II 27 11 12 35.7–.28 23.70S 67.29W 217–11 5.1L,4.1
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=208.1km s-min=26.3km az=72.0.
SJA Error ellipse: s-maj=2.6km s-min=6.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=150.8.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=56.0. Felt [II] in the epicentral area. Also felt at Calama, Chile.
IDC Error ellipse: s-maj=17.6km s-min=11.7km az=45.0.
GUC Error ellipse: s-maj=3.9km s-min=8.6km az=-1.0.
ISC III 01 20 11 16.1–.53 22.79S–.06 66.14W–.06 251 4.3b 38 3-145
ISCJB III 01 20 11 15.8–.39 22.79S–.04 66.14W–.04 251 4.3b ¶16400351
IDC III 01 20 11 16.7–1.9 22.74S 66.05W 247–19 4.4,3.8
NEIC III 01 20 11 17.7–1.1 22.70S 66.16W 260–12 4.6b,3.8
GUC III 01 20 11 19.3–.31 22.68S 66.67W 270 4.9L,3.8
SJA III 01 20 11 31.6–.31 24.18S 66.43W 308–84 2.9L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.6km az=30.7.
IDC Error ellipse: s-maj=23.3km s-min=17.1km az=91.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.5km az=89.0.
GUC Error ellipse: s-maj=3.7km s-min=5.3km az=-1.0.
SJA Error ellipse: s-maj=41.4km s-min=33.0km az=-1.0.
ISC III 04 03 10 44.9–.58 23.07S–.05 66.70W–.05 222 3.7b 56 1-155
SCB III 04 03 10 41.5–.21 22.82S 66.22W 225 4.0L ¶16484334
SJA III 04 03 10 43.1–.78 23.06S 66.61W 252–12 4.1L,3.5W
IDC III 04 03 10 44.8–1.8 23.05S 66.53W 208–15 4.0,3.7
ISCJB III 04 03 10 44.7–.30 23.08S–.03 66.76W–.03 222 3.6b,3.7
GUC III 04 03 10 46.5–.51 23.00S 67.24W 255–16 5.2L,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=31.3km s-min=4.3km az=74.0.
SJA Error ellipse: s-maj=5.1km s-min=12.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=13.7km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=44.5.
GUC Error ellipse: s-maj=5.5km s-min=14.6km az=-1.0.
ISC III 10 05 36 15.0–1.2 23.94S–.07 66.91W–.06 181 27 2-8
SCB III 10 05 36 03.4–.50 23.92S 65.58W 250 3.5L ¶16603423
SJA III 10 05 36 12.2–.51 23.99S 66.88W 214–20 2.5W,2.3L
ISCJB III 10 05 36 14.5–.46 24.00S–.04 66.97W–.06 181 2.5W,2.3L
GUC III 10 05 36 15.0–.37 23.71S 67.20W 235–20 4.0L,2.3L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=89.2km s-min=10.9km az=74.0.
SJA Error ellipse: s-maj=3.2km s-min=27.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=144.1.
GUC Error ellipse: s-maj=8.7km s-min=19.2km az=-1.0.
IDC III 14 01 38 31.6–3.1 23.45S 64.61W 68–32 3.6,3.5 ¶17195039
IDC Error ellipse: s-maj=44.4km s-min=31.4km az=65.0.
GUC III 14 21 01 24.5–.41 22.43S 66.51W 270 3.8L ¶601516861
GUC Error ellipse: s-maj=6.6km s-min=6.1km az=-1.0.
ISC III 15 09 26 45.3–.52 22.03S–.05 65.77W–.08 262 4.1b 47 0-153
SCB III 15 09 26 44.5–.63 21.39S 65.49W 298 3.6L ¶16478185
ISCJB III 15 09 26 45.2–.34 21.96S–.03 65.87W–.06 262 4.0b
IDC III 15 09 26 45.5–1.6 22.00S 65.79W 260–15 4.3,3.8
SJA III 15 09 26 46.0–.72 22.03S 65.84W 271–5 3.9L,3.3W
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=74.8km s-min=13.9km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.1km az=164.7.
IDC Error ellipse: s-maj=14.1km s-min=12.8km az=34.0.
SJA Error ellipse: s-maj=5.9km s-min=12.9km az=-1.0.
ISC III 20 01 52 06.4–.97 23.8S–.10 66.5W–.10 201 3.4b 10 8-146
ISCJB III 20 01 52 05.0–1.0 23.85S–.09 66.5W–.20 201 3.2b ¶17197364
IDC III 20 01 52 09.4–2.2 23.59S 66.46W 227–20 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=12.2km az=164.7.
IDC Error ellipse: s-maj=21.7km s-min=18.4km az=67.0.
IDC III 28 05 23 20.6–3.3 23.87S 66.88W 195–42 3.6,3.1 ¶17198908
IDC Error ellipse: s-maj=42.0km s-min=28.3km az=111.0.
ISC III 30 14 29 48.9–.93 22.46S–.07 66.21W–.05 251 27 1-145
IDC III 30 14 29 11.3–3.0 25.30S 66.56W 0 4.1b,4.0 ¶16631099
ISCJB III 30 14 29 49.7–.52 22.44S–.07 66.24W–.05 251 3.7b,4.0
GUC III 30 14 29 50.4–.47 22.51S 66.72W 282–30 4.0L,4.0
SJA III 30 14 29 50.4–1.6 22.43S 66.17W 246–50 2.9W,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=64.6km s-min=47.8km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.3km az=22.6.
GUC Error ellipse: s-maj=8.8km s-min=24.9km az=-1.0.
SJA Error ellipse: s-maj=27.5km s-min=120.7km az=-1.0.
ISC III 31 09 48 46.9–1.3 23.26S–.07 66.80W–.07 200 20 1-5
SJA III 31 09 48 44.0–.41 23.24S 66.28W 260–10 3.0W,2.6L ¶16631115
ISCJB III 31 09 48 47.0–.58 23.25S–.07 66.83W–.06 200 3.0W,2.6L
GUC III 31 09 48 47.6–.42 23.22S 67.23W 252–11 4.4L,2.6L
ISC Event type ke.
SJA Error ellipse: s-maj=4.8km s-min=33.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.1km az=36.8.
GUC Error ellipse: s-maj=3.3km s-min=8.9km az=-1.0.
ISC IV 03 21 06 55.0–1.1 23.56S–.09 67.00W–.08 196 13 3-76
ISCJB IV 03 21 06 54.2–.84 23.60S–.07 66.99W–.07 196 3.1b ¶17199699
IDC IV 03 21 06 56.2–2.9 23.47S 66.97W 208–44 3.7,3.2
GUC IV 03 21 06 57.4–.48 23.41S 67.40W 231–14 3.7L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.3km az=14.7.
IDC Error ellipse: s-maj=44.5km s-min=20.9km az=110.0.
GUC Error ellipse: s-maj=5.1km s-min=11.8km az=-1.0.
ISC IV 07 15 38 22.1–.79 23.19S–.07 66.5W–.10 200 4.2b 21 1-150
ISCJB IV 07 15 38 21.7–.62 23.23S–.05 66.8W–.10 200 4.4b ¶16648284
SJA IV 07 15 38 21.7–.72 23.32S 66.58W 232–20 3.1W,2.9L
IDC IV 07 15 38 22.0–2.8 23.30S 66.47W 200–24 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=6.8km az=174.7.
SJA Error ellipse: s-maj=9.2km s-min=15.9km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=24.5km az=109.0.
ISC IV 11 07 55 10.4–.53 23.89S–.03 66.85W–.04 195–4 5.0b 884 1-174
SCB IV 11 07 55 04.0–.54 24.03S 67.22W 173 4.7L ¶16416734
SJA IV 11 07 55 07.6–.74 23.93S 66.94W 221–11 4.7W,4.6L
NEIC IV 11 07 55 09.0–.40 23.92S 66.65W 180–3 5.1,5.0b
ISCJB IV 11 07 55 09.6–.26 23.84S–.03 66.72W–.04 199–2 4.9b,5.0b
BJI IV 11 07 55 09.8 23.90S 66.80W 191 5.1b,5.0b
MOS IV 11 07 55 10.5–1.1 23.73S 66.64W 200 4.9b,5.0b
IDC IV 11 07 55 10.2–1.1 23.89S 66.70W 192–9 5.0,4.6
GUC IV 11 07 55 11.5–.31 23.69S 67.37W 246–10 5.6L,4.6
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=12.7km s-min=7.3km az=39.0.
SJA Error ellipse: s-maj=3.8km s-min=14.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.1km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.3km az=149.1.
MOS Error ellipse: s-maj=15.4km s-min=6.4km az=116.3.
IDC Error ellipse: s-maj=9.7km s-min=8.7km az=80.0.
GUC Error ellipse: s-maj=3.8km s-min=9.4km az=-1.0.
ISC IV 11 13 43 21.6–.63 22.34S–.05 65.99W–.05 251 4.2b 50 1-145
SCB IV 11 13 43 18.2–.99 22.35S 66.33W 281–7 3.6L ¶16648534
SJA IV 11 13 43 19.8–.53 22.47S 65.99W 301–5 3.3W,2.8L
IDC IV 11 13 43 21.7–1.9 22.33S 65.76W 257–15 4.1,3.6
ISCJB IV 11 13 43 22.6–.45 22.39S–.03 65.98W–.05 251 3.9b,3.6
GUC IV 11 13 43 22.9–.40 22.31S 66.43W 290 4.8L,3.6
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=28.3km s-min=11.4km az=39.0.
SJA Error ellipse: s-maj=7.1km s-min=14.2km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=16.0km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=155.3.
GUC Error ellipse: s-maj=4.7km s-min=6.2km az=-1.0.
ISC IV 12 21 44 40.9–.36 23.88S–.04 66.79W–.04 210–3 4.8b 537 1-174
SCB IV 12 21 44 34.3–.57 23.92S 67.07W 171 4.5L ¶16587483
ISCJB IV 12 21 44 38.6–.25 23.84S–.03 66.74W–.04 203–2 4.7b
NEIC IV 12 21 44 38.9–.46 23.86S 66.65W 188–4 4.8b,4.4
BJI IV 12 21 44 40.4 23.90S 66.70W 191 5.1b,4.4
SJA IV 12 21 44 40.7–.72 23.95S 66.78W 187–9 4.2W,4.1L
IDC IV 12 21 44 41.4–.56 23.75S 66.58W 213–4 4.7,4.3
GCMT IV 12 21 44 42.1–.40 23.88S 66.89W 220–3 5.1W,4.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=13.5km s-min=7.8km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=147.6.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=54.0.
SJA Error ellipse: s-maj=4.8km s-min=8.3km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=8.8km az=51.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s64,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.54±.23 $M_{\theta\theta}$-1.49±.28; $M_{\phi\phi}$4.03±.31; $M_{r\theta}$-1.20±.17; $M_{\theta\phi}$-2.60±.26; $M_{\phi r}$-4.29±.20; Best double couple: NP1:ϕ_s10.00000°,δ75.00000°,λ-57.00000°. NP2:ϕ_s122.00000°,δ36.00000°,λ-154.00000°. Principal axes: T 6.5730,Plg23.0000°,Azm76.0000°; N -0.7070,Plg32.0000°,Azm181.0000°; P -5.8660,Plg49.0000°,Azm316.0000° $M_0$6.22000×10^{16}
ISC IV 18 06 30 39.1–1.1 22.06S–.08 66.0W–.10 262 19 3-93
ISCJB IV 18 06 30 38.9–.85 22.06S–.07 65.92W–.09 262 3.2b ¶17201396
IDC IV 18 06 30 41.1–1.8 21.84S 65.85W 275–22 3.5,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=9.1km az=20.2.
IDC Error ellipse: s-maj=31.8km s-min=17.3km az=99.0.
ISC IV 19 18 44 02.1–.75 23.72S–.05 66.73W–.05 200 3.7b 38 1-146
SJA IV 19 18 44 01.6–.35 23.77S 66.79W 209–10 3.4W,3.0L ¶16649013
ISCJB IV 19 18 44 02.2–.40 23.78S–.04 66.84W–.04 200 3.6b,3.0L
IDC IV 19 18 44 02.4–2.6 23.77S 66.51W 193–22 3.8,3.6b
GUC IV 19 18 44 04.8–.37 23.53S 67.38W 249–12 4.4L,3.6b
ISC Event type ke.
SJA Error ellipse: s-maj=1.9km s-min=6.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=34.8.
IDC Error ellipse: s-maj=33.1km s-min=22.4km az=66.0.
GUC Error ellipse: s-maj=4.4km s-min=10.8km az=-1.0.
IDC IV 20 01 00 48.2–5.0 23.93S 66.33W 149–58 3.8,3.5 ¶17201567
IDC Error ellipse: s-maj=87.5km s-min=29.0km az=97.0.
ISC IV 20 03 22 39.1–.74 22.94S–.07 66.51W–.10 222 3.9b 32 1-145
SCB IV 20 03 22 33.4–.25 23.09S 66.82W 195 3.9L ¶16649042
SJA IV 20 03 22 37.4–.28 22.94S 66.53W 241–6 4.2W,3.5L
ISCJB IV 20 03 22 38.6–.43 23.02S–.04 66.61W–.08 222 3.7b,3.5L
IDC IV 20 03 22 46.7–2.8 22.28S 66.24W 270–20 4.1,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=6.9km s-min=3.3km az=38.0.
SJA Error ellipse: s-maj=4.6km s-min=4.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.9km az=162.9.
IDC Error ellipse: s-maj=38.8km s-min=14.6km az=29.0.
SJA IV 20 11 09 59.8–.59 22.42S 65.26W 14–4 3.6W,3.0L ¶16649052
SJA Error ellipse: s-maj=1.8km s-min=5.0km az=-1.0.
ISC IV 23 06 56 34.6–.89 23.90S–.06 66.79W–.04 206–8 26 1-146
IDC IV 23 06 56 02.9–2.2 25.99S 67.45W 0 3.9,3.8L ¶16649252
ISCJB IV 23 06 56 34.6–.64 23.91S–.05 66.82W–.04 202–6 2.9b,3.8L
SJA IV 23 06 56 35.8–.52 23.91S 66.71W 196–7 2.6W,2.2L
GUC IV 23 06 56 36.5–.43 23.88S 67.20W 225 4.2L,2.2L
ISC Event type ke.
IDC Error ellipse: s-maj=106.6km s-min=55.1km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.7km az=5.5.
SJA Error ellipse: s-maj=2.0km s-min=6.2km az=-1.0.
GUC Error ellipse: s-maj=5.2km s-min=5.5km az=-1.0.
ISC IV 23 14 05 53.2–.84 23.89S–.06 66.77W–.06 200 34 1-146
ISCJB IV 23 14 05 53.3–.39 23.94S–.04 66.83W–.04 200 3.5b ¶16649261
IDC IV 23 14 05 53.1–2.6 23.91S 66.63W 198–24 3.9,3.6
SJA IV 23 14 05 53.4–.31 23.98S 66.76W 209–5 4.0W,2.6L
GUC IV 23 14 05 55.2–.32 23.80S 67.32W 250–14 4.3L,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.9km az=43.3.
IDC Error ellipse: s-maj=38.7km s-min=20.3km az=67.0.

SJA Error ellipse: s-maj=1.6km s-min=3.9km az=-1.0.
GUC Error ellipse: s-maj=7.0km s-min=10.5km az=-1.0.
ISC IV 26 06 19 51.0–.70 22.49S–.05 66.18W–.05 243–6 3.9b 49 1-145
SCB IV 26 06 19 49.2–.51 22.06S 65.94W 265 3.9L **¶16649432**
ISCJB IV 26 06 19 50.7–.37 22.49S–.03 66.18W–.04 250–3 3.7b
IDC IV 26 06 19 51.2–2.0 22.45S 65.99W 242–18 4.1,3.7
SJA IV 26 06 19 52.6–.66 22.59S 66.23W 237–6 4.5L,3.2W
GUC IV 26 06 19 53.4–.39 22.46S 66.94W 299–10 5.0L,3.2W
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=16.1km s-min=7.4km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=142.1.
IDC Error ellipse: s-maj=20.3km s-min=17.4km az=69.0.
SJA Error ellipse: s-maj=3.6km s-min=8.4km az=-1.0.
GUC Error ellipse: s-maj=5.3km s-min=13.1km az=-1.0.
ISC IV 27 09 39 33.0–.64 23.06S–.04 66.63W–.04 219–6 4.1b 75 1-166
SCB IV 27 09 39 25.3–.58 23.35S 66.76W 198 3.9L **¶16577901**
NEIC IV 27 09 39 32.2–.60 23.07S 66.49W 210–6 4.4b
SJA IV 27 09 39 32.3–.61 23.04S 66.50W 231–8 3.8W,3.4L
ISCJB IV 27 09 39 32.2–.29 23.10S–.03 66.65W–.03 228–3 3.9b,3.4L
IDC IV 27 09 39 32.4–.89 23.01S 66.42W 208–9 4.4,3.9
GUC IV 27 09 39 34.1–.58 22.98S 67.18W 264–14 4.9L,3.9
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=14.2km s-min=7.6km az=25.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.4km az=85.0.
SJA Error ellipse: s-maj=3.9km s-min=13.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=43.4.
IDC Error ellipse: s-maj=13.8km s-min=12.4km az=89.0.
GUC Error ellipse: s-maj=6.2km s-min=13.4km az=-1.0.
ISC IV 28 01 17 17.2–.84 23.38S–.05 66.69W–.05 205–7 3.2b 43 1-146
ISCJB IV 28 01 17 16.9–.47 23.40S–.04 66.80W–.04 215–6 3.1b **¶16649539**
IDC IV 28 01 17 17.5–1.2 23.31S 66.60W 200–11 3.7,3.4
GUC IV 28 01 17 19.0–.46 23.21S 67.47W 272–8 4.4L,3.4
SJA IV 28 01 17 22.4–.94 23.45S 66.54W 162–11 3.1W,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.8km az=36.2.
IDC Error ellipse: s-maj=23.1km s-min=16.8km az=12.0.
GUC Error ellipse: s-maj=3.9km s-min=9.1km az=-1.0.
SJA Error ellipse: s-maj=4.7km s-min=10.2km az=-1.0.
ISC V 01 02 40 06.5–1.9 22.7S–.30 66.87W–.09 200 8 1-3
ISCJB V 01 02 40 06.4–.50 22.8S–.10 66.87W–.05 200 **¶16988250**
SJA V 01 02 40 06.3–1.4 22.81S 66.77W 201–26 2.8W,2.7L
GUC V 01 02 40 07.0–.43 22.75S 67.27W 232–6 3.6L,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=5.1km az=12.4.
SJA Error ellipse: s-maj=14.9km s-min=10.4km az=-1.0.
GUC Error ellipse: s-maj=5.8km s-min=6.9km az=-1.0.
ISC V 01 02 56 05.2–.89 23.63S–.06 66.92W–.04 197–8 3.1b 32 1-94
SJA V 01 02 56 03.3–1.8 23.61S 66.85W 224–18 3.4L,3.0W **¶16708452**
ISCJB V 01 02 56 04.6–.50 23.66S–.05 66.96W–.04 201–5 3.1b,3.0W
GUC V 01 02 56 07.8–.27 23.50S 67.37W 216–8 4.2L,3.0W
IDC V 01 02 56 14.8–9.6 22.81S 66.31W 255–66 3.4,3.1
ISC Event type ke.
SJA Error ellipse: s-maj=7.1km s-min=7.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.4km az=34.1.
GUC Error ellipse: s-maj=3.2km s-min=6.3km az=-1.0.
IDC Error ellipse: s-maj=109.8km s-min=28.8km az=20.0.
ISC V 02 13 45 58.7–1.2 22.86S–.09 66.3W–.10 250 11 1-145
ISCJB V 02 13 45 59.1–.80 22.80S–.10 66.2W–.10 250 3.7b **¶16708605**
SJA V 02 13 46 02.5–.80 22.91S 66.32W 206–9 3.0W,2.3L
IDC V 02 13 46 03.8–9.6 22.29S 65.63W 256–79 3.8,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=9.2km az=149.8.
SJA Error ellipse: s-maj=6.0km s-min=6.7km az=-1.0.
IDC Error ellipse: s-maj=110.7km s-min=74.2km az=25.0.
ISC V 07 15 28 42.2–1.3 23.15S–.07 66.70W–.06 222 22 1-4
ISCJB V 07 15 28 42.6–.46 23.18S–.07 66.77W–.05 222 **¶16988425**
SJA V 07 15 28 43.3–.43 23.19S 66.58W 222–7 2.6W,2.2L
GUC V 07 15 28 45.4–.44 22.98S 67.35W 260–8 4.1L,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.5km az=29.0.
SJA Error ellipse: s-maj=3.3km s-min=7.3km az=-1.0.
GUC Error ellipse: s-maj=4.1km s-min=9.3km az=-1.0.
ISC V 08 20 46 17.2–.51 23.18S–.04 66.44W–.04 224–4 4.8b 633 1-173
SCB V 08 20 46 11.9–.43 23.25S 66.43W 225 4.8L **¶16500448**
SJA V 08 20 46 15.3–1.1 23.19S 66.42W 248–9 4.0L
MOS V 08 20 46 15.0–1.5 23.16S 66.36W 212 4.9b
ISCJB V 08 20 46 16.6–.23 23.19S–.02 66.42W–.03 226–2 4.8b
IDC V 08 20 46 16.4–.76 23.16S 66.26W 213–6 4.9,4.5
GCMT V 08 20 46 16.2–.40 23.49S 66.43W 224–3 5.1W,4.5
NEIC V 08 20 46 16.1–.57 23.18S 66.25W 210–5 4.9b,4.5
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=11.9km s-min=5.6km az=39.0.
SJA Error ellipse: s-maj=4.1km s-min=5.3km az=-1.0.
MOS Error ellipse: s-maj=15.7km s-min=6.7km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.1km az=148.9.
IDC Error ellipse: s-maj=10.3km s-min=8.3km az=87.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s69,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.16±.23 $M_{\theta\theta}$-0.48±.30; $M_{\phi\phi}$0.32±.34; $M_{r\theta}$-0.19±.17; $M_{\theta\phi}$3.37±.20; $M_{\phi r}$-3.66±.19; Best double couple: NP1:ϕ_s177.00000°,δ88.00000°,λ133.00000°. NP2:ϕ_s269.00000°,δ43.00000°,λ3.00000°. Principal axes: T 5.1750,Plg33.0000°,Azm122.0000°; N -0.3770,Plg43.0000°,Azm355.0000°; P -4.7980,Plg30.0000°,Azm233.0000° $M_0$4.98700×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.5km az=61.0.
ISC V 08 23 22 07.2–1.3 23.37S–.06 66.74W–.05 196 27 1-4
SJA V 08 23 22 05.2–.41 23.39S 66.64W 228–10 2.5W,1.8L **¶16988450**
GUC V 08 23 22 06.8–.40 23.24S 67.18W 264–7 4.0L,1.8L
ISCJB V 08 23 22 07.2–.46 23.36S–.05 66.76W–.04 196 4.0L,1.8L
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 03 24 42.3–1.3 23.94S–.06 66.85W–.06 181 22 1-4
SJA V 10 03 24 39.7–.65 23.96S 66.82W 213–16 3.1W,2.8L **¶16988477**
ISCJB V 10 03 24 42.3–.50 23.95S–.05 66.88W–.05 181 3.1W,2.8L
GUC V 10 03 24 42.9–.36 23.74S 67.22W 230 4.0L,2.8L
ISC Event type ke.
SJA Error ellipse: s-maj=4.1km s-min=25.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.7km az=37.5.
GUC Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
SJA V 11 17 34 08.1–.78 23.74S 64.79W 10 2.7W,2.2L
¶16988517
SJA Error ellipse: s-maj=1.9km s-min=2.8km az=-1.0.
ISC V 15 23 53 24.2–1.2 23.90S–.06 66.87W–.07 181 16 1-146
SJA V 15 23 53 21.3–.58 23.92S 66.84W 218–7 2.7W,2.2L **¶16709975**
ISCJB V 15 23 53 24.5–.64 23.97S–.05 66.88W–.07 181 2.7W,2.2L
IDC V 15 23 53 27.0–1.6 23.62S 67.17W 223–17 3.4,3.1
ISC Event type ke.
SJA Error ellipse: s-maj=2.7km s-min=10.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.0km az=152.4.
IDC Error ellipse: s-maj=34.9km s-min=25.0km az=62.0.
ISC V 19 15 20 26.8–.85 22.55S–.09 66.0W–.10 251 3.9b 11 3-145
ISCJB V 19 15 20 25.6–.81 22.65S–.08 65.91W–.09 251 3.7b **¶17203978**
IDC V 19 15 20 26.2–1.4 22.57S 65.96W 245–18 4.0,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=11.0km az=19.0.
IDC Error ellipse: s-maj=28.3km s-min=16.3km az=113.0.
ISC V 25 17 14 46.2–1.2 22.83S–.09 66.3W–.20 250 10 1-76
ISCJB V 25 17 14 46.9–.78 22.82S–.08 66.3W–.20 250 3.4b **¶16710917**
SJA V 25 17 14 52.7–.56 23.03S 66.30W 178–13 3.3W,2.4L
IDC V 25 17 14 52.5–2.0 22.41S 67.77W 355–21 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.1km s-min=8.7km az=162.7.

SJA Error ellipse: s-maj=7.4km s-min=9.3km az=-1.0.
IDC Error ellipse: s-maj=36.3km s-min=21.1km az=87.0.
ISC V 30 16 12 31.8–1.1 23.43S–.07 66.81W–.07 200 18 1-146
SJA V 30 16 12 30.3–.82 23.40S 66.79W 232–17 3.4W,3.0L **¶16702315**
IDC V 30 16 12 31.2–2.5 23.42S 66.70W 200–29 3.7,3.3
ISCJB V 30 16 12 32.8–.52 23.47S–.05 66.85W–.07 200 3.1b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC VI 01 15 46 10.5–1.3 23.49S–.09 66.72W–.05 201 20 1-4
ISCJB VI 01 15 46 12.3–.79 23.45S–.09 66.89W–.06 201 **¶601517632**
GUC VI 01 15 46 13.7–.35 23.29S 67.21W 224–5 3.6L
SJA VI 01 15 46 19.2–.52 23.11S 64.70W 169–36 3.0W,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.7km az=16.6.
GUC Error ellipse: s-maj=3.2km s-min=5.1km az=-1.0.
SJA Error ellipse: s-maj=18.0km s-min=93.9km az=-1.0.
SJA VI 12 20 40 00.3–.61 23.41S 64.04W 31–5 3.6W,2.9L
¶16989350
SJA Error ellipse: s-maj=3.0km s-min=7.3km az=-1.0.
ISC VI 23 06 42 30.4–1.2 22.3S–.10 65.9W–.10 251 8 3-145
ISCJB VI 23 06 42 29.1–1.3 22.4S–.10 65.8W–.10 251 3.6b **¶17206804**
IDC VI 23 06 42 30.1–1.5 22.33S 65.89W 256–16 3.9,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=12.4km az=143.2.
IDC Error ellipse: s-maj=26.4km s-min=18.8km az=121.0.
ISC VI 24 02 15 33.5–.80 23.85S–.06 66.77W–.07 197–7 3.5b 36 1-146
SCB VI 24 02 15 29.8–.62 23.82S 67.08W 165 3.7L **¶16731338**
ISCJB VI 24 02 15 32.6–.46 23.91S–.03 66.80W–.07 207–5 3.4b
IDC VI 24 02 15 32.9–1.3 23.83S 66.66W 187–11 4.0,3.8
SJA VI 24 02 15 32.6–.69 23.91S 66.84W 204–10 3.9W,3.7L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=15.2km s-min=11.6km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.0km az=162.8.
IDC Error ellipse: s-maj=19.6km s-min=16.8km az=18.0.
SJA Error ellipse: s-maj=3.5km s-min=15.0km az=-1.0.
ISC VI 26 13 07 58.3–.66 22.52S–.07 66.25W–.08 245 3.9b 25 2-133
SCB VI 26 13 07 55.3–.83 22.53S 66.51W 200 3.7L **¶17206991**
ISCJB VI 26 13 07 56.6–.59 22.65S–.06 66.15W–.07 245 3.9b
IDC VI 26 13 07 57.9–1.4 22.60S 66.16W 246–14 4.2,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=23.6km s-min=10.8km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.8km az=160.6.
IDC Error ellipse: s-maj=16.8km s-min=16.3km az=123.0.
GUC VI 27 06 46 26.5–.50 22.92S 66.93W 259–15 4.2L
¶601517885
GUC Error ellipse: s-maj=5.7km s-min=10.9km az=-1.0.
ISC VI 29 21 41 53.9–.76 23.87S–.05 66.78W–.06 208–7 3.7b 32 1-146
ISCJB VI 29 21 41 53.9–.42 23.80S–.04 66.68W–.06 211–5 3.6b **¶16731810**
IDC VI 29 21 41 54.2–1.3 23.71S 66.62W 200–10 3.9,3.6
SJA VI 29 21 41 55.8–.65 23.86S 66.97W 164–10 3.4W,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.4km az=168.3.
IDC Error ellipse: s-maj=24.2km s-min=16.2km az=18.0.
SJA Error ellipse: s-maj=3.3km s-min=7.2km az=-1.0.

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ISC I 03 10 41 00.4–1.4 24.1S–.10 66.99W–.08 178 19 2-77
ISCJB I 03 10 40 59.9–1.1 24.12S–.08 66.99W–.07 178 3.0b **¶17189322**
IDC I 03 10 41 01.2–2.4 24.08S 67.06W 196–35 3.9,3.4
GUC I 03 10 41 02.5–.40 23.90S 67.47W 226–11 4.5L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=8.2km az=13.4.
IDC Error ellipse: s-maj=48.0km s-min=34.9km az=101.0.
GUC Error ellipse: s-maj=6.7km s-min=8.1km az=-1.0.
ISC I 12 18 46 32.4–.76 24.01S–.06 66.78W–.07 181 36 2-146
ISCJB I 12 18 46 32.3–.48 24.01S–.04 66.73W–.06 181 3.1b **¶17190006**
SJA I 12 18 46 32.6–.64 23.99S 67.06W 180–44 2.5W,2.4L
IDC I 12 18 46 32.8–1.3 24.03S 66.73W 195–14 3.7,3.2
GUC I 12 18 46 33.9–.40 23.77S 67.28W 250–7 4.5L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.9km az=148.7.
SJA Error ellipse: s-maj=11.8km s-min=54.7km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=19.7km az=15.0.
GUC Error ellipse: s-maj=4.9km s-min=6.7km az=-1.0.
ISC I 15 13 30 44.4–.83 24.06S–.09 66.96W–.09 181 3.3b 15 2-147
ISCJB I 15 13 30 43.0–.70 24.12S–.06 66.96W–.08 181 3.3b **¶17190250**
IDC I 15 13 30 43.8–1.9 24.18S 66.98W 176–15 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=9.1km az=172.8.
IDC Error ellipse: s-maj=26.6km s-min=18.6km az=18.0.
SJA I 16 17 53 20.3–.66 24.74S 64.24W 66–19 3.9W,3.2L
¶601891107
SJA Error ellipse: s-maj=6.6km s-min=6.1km az=-1.0.
ISC I 18 16 56 37.3–.92 24.00S–.09 66.60W–.07 195 20 3-146
ISCJB I 18 16 56 36.5–.87 24.03S–.08 66.63W–.06 195 3.1b **¶17190490**
IDC I 18 16 56 38.0–3.6 23.92S 66.32W 192–29 3.4,3.1
GUC I 18 16 56 39.0–.30 23.77S 67.16W 249–12 4.3L,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.3km az=22.2.
IDC Error ellipse: s-maj=48.9km s-min=20.3km az=45.0.
GUC Error ellipse: s-maj=4.6km s-min=10.3km az=-1.0.
IDC I 19 03 59 58.9–3.4 24.11S 66.99W 185–19 3.3s,3.3
¶17190523
IDC Error ellipse: s-maj=64.5km s-min=24.3km az=12.0.
ISC I 21 04 00 03.9–1.1 25.84S–.08 66.69W–.10 35 11 1-145
IDC I 21 03 59 55.9–2.5 26.27S 66.95W 0 3.8,3.7L **¶17190657**
SJA I 21 04 00 00.0–.37 25.88S 66.81W 6–6 3.4L,3.7L
ISCJB I 21 04 00 02.2–.89 25.71S–.08 66.7W–.10 33 3.3b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC I 24 04 58 17.7–.35 24.15S–.04 66.97W–.04 181 4.5b 113 1-174
SCB I 24 04 58 11.1–.77 24.07S 66.45W 200 3.8L **¶15963054**
ISCJB I 24 04 58 16.3–.23 24.16S–.03 66.98W–.03 181 4.5b
IDC I 24 04 58 17.1–1.0 24.14S 66.84W 176–8 4.5,4.1
SJA I 24 04 58 18.2–.61 24.19S 66.98W 182–6 4.6,3.6L
GUC I 24 04 58 18.9–.54 24.10S 67.60W 234–22 5.2L,3.6L
BJI I 24 04 58 18.0 24.20S 66.90W 160 5.1b,3.6L
NEIC I 24 04 58 18.0 24.20S 66.93W 190 4.5b,4.1
ISC Event type se.
SCB Event type ke. Error ellipse: s-maj=130.0km s-min=15.1km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=135.8.
IDC Error ellipse: s-maj=13.6km s-min=10.2km az=8.0.
SJA Error ellipse: s-maj=2.6km s-min=3.2km az=-1.0.
GUC Error ellipse: s-maj=6.0km s-min=19.4km az=-1.0.
NEIC Event type se. After SJA.
ISC II 01 05 18 39.8–.39 22.08S–.05 63.72W–.06 535–3 4.7b 687 2-170
SCB II 01 05 18 31.2–.25 21.34S 63.39W 500 4.9L **¶15990792**
ISCJB II 01 05 18 38.0–.30 21.88S–.04 63.61W–.04 516–3 4.6b
MOS II 01 05 18 38.7–1.2 21.94S 63.59W 524 4.6b
NEIC II 01 05 18 38.7–.50 21.94S 63.51W 512–5 4.6b
IDC II 01 05 18 39.7–.46 22.07S 63.73W 531–4 5.2,4.4
SJA II 01 05 18 40.4–.67 22.60S 64.13W 540–9 5.0L,4.4
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=33.3km s-min=6.0km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.8km az=41.8.
MOS Error ellipse: s-maj=16.9km s-min=8.0km az=108.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=50.0.
IDC Error ellipse: s-maj=9.8km s-min=8.5km az=41.0.
SJA Error ellipse: s-maj=13.9km s-min=39.4km az=-1.0. Moment Tensor Solution. NP1: ϕ_s202.47000°,δ59.75000°,λ-76.07000°.
IDC II 02 04 52 05.4–1.5 22.59S 64.08W 0 3.8b,3.7

¶17191520
IDC Error ellipse: s-maj=26.8km s-min=21.6km az=43.0.
ISC II 10 00 41 18.1–.35 22.11S–.05 63.87W–.05 550 4.5b 126 2-173
SCB II 10 00 41 10.9–.09 21.22S 63.61W 521 4.2L ¶16020156
SJA II 10 00 41 13.5–.83 22.31S 64.28W 580–6 4.3L
BJI II 10 00 41 14.9 21.95S 63.73W 512 5.4b
ISCJB II 10 00 41 16.8–.21 22.11S–.03 63.90W–.04 550 4.4b
NEIC II 10 00 41 16.9–.54 22.03S 63.73W 526–7 4.7b
IDC II 10 00 41 16.8–.70 22.11S 63.73W 519–7 4.5,3.7
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=9.5km s-min=2.1km az=38.0.
SJA Error ellipse: s-maj=9.1km s-min=8.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=21.8.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.9km az=84.0.
IDC Error ellipse: s-maj=11.0km s-min=9.9km az=24.0.
SJA II 20 08 58 48.1–.59 25.74S 65.16W 21–4 3.4W,3.0L
¶602036078
SJA Error ellipse: s-maj=1.6km s-min=3.6km az=-1.0.
ISC III 06 06 56 09.1–1.5 26.0S–.10 66.9W–.10 35 3.3s,3.3b 10 1-148
SJA III 06 06 56 06.7–.76 25.77S 66.81W 4–10 3.4L,3.3W ¶16484454
IDC III 06 06 56 14.4–7.2 25.61S 66.65W 60–49 3.6,3.5
ISC Event type ke.
SJA Error ellipse: s-maj=3.3km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=94.6km s-min=28.9km az=34.0.
ISC III 06 16 06 23.1–.66 24.27S–.06 66.99W–.09 169 3.9b 24 2-147
ISCJB III 06 16 06 22.3–.54 24.30S–.05 67.07W–.07 169 3.6b ¶16484493
IDC III 06 16 06 24.1–2.5 24.25S 66.86W 180–21 4.0,3.7
SJA III 06 16 06 26.1–.52 24.39S 66.83W 170–9 2.8W,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.7km az=156.2.
IDC Error ellipse: s-maj=22.9km s-min=15.0km az=57.0.
SJA Error ellipse: s-maj=2.7km s-min=6.9km az=-1.0.
ISC III 08 05 12 11.6–1.1 24.04S–.10 66.86W–.08 200 3.1b 18 3-146
ISCJB III 08 05 12 13.5–1.3 23.93S–.08 67.04W–.09 200 3.1b ¶17193451
GUC III 08 05 12 14.0–.25 23.79S 67.28W 225 4.2L
IDC III 08 05 12 24.3–9.8 23.04S 66.04W 277–66 3.5,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=10.1km az=142.7.
GUC Error ellipse: s-maj=3.1km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=115.3km s-min=22.7km az=20.0.
SJA III 11 12 34 32.2–1.4 25.82S 66.82W 10 4.4W,3.6L
¶16603448
SJA Error ellipse: s-maj=11.2km s-min=20.2km az=-1.0.
ISC III 20 01 33 06.2–.61 24.05S–.04 66.88W–.04 192–5 4.5b 133 1-166
SCB III 20 01 33 01.6–.58 24.09S 67.17W 165 4.0L ¶16339559
ISCJB III 20 01 33 05.9–.25 24.07S–.03 66.91W–.03 199–2 4.4b
SJA III 20 01 33 06.3–1.9 24.18S 66.40W 237–14 3.5L,3.4W
NEIC III 20 01 33 06.2–.46 24.07S 66.79W 190–4 4.5b,3.4W
IDC III 20 01 33 06.6–1.4 24.02S 66.74W 190–12 4.6,4.3
GUC III 20 01 33 08.9–.27 23.74S 67.51W 254–7 5.5L,4.3
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=13.6km s-min=7.7km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.6km az=143.4.
SJA Error ellipse: s-maj=9.4km s-min=18.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.8km az=69.0.
IDC Error ellipse: s-maj=14.6km s-min=11.4km az=74.0.
GUC Error ellipse: s-maj=3.1km s-min=7.5km az=-1.0.
ISC III 20 23 06 29.6–.66 24.14S–.06 66.89W–.05 181 3.5b 28 1-151
ISCJB III 20 23 06 29.6–.40 24.15S–.04 66.93W–.05 181 3.5b ¶16479853
SJA III 20 23 06 29.7–.94 24.26S 66.28W 236–9 2.6L,2.5W
IDC III 20 23 06 30.3–7.3 24.10S 66.81W 183–53 3.8,3.6
GUC III 20 23 06 31.7–.32 24.21S 67.30W 200 4.3L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.3km az=41.3.
SJA Error ellipse: s-maj=5.5km s-min=16.9km az=-1.0.
IDC Error ellipse: s-maj=70.8km s-min=20.2km az=27.0.
GUC Error ellipse: s-maj=3.4km s-min=4.5km az=-1.0.
ISC III 23 19 21 26.0–.96 24.07S–.06 66.9W–.10 200 20 1-147
ISCJB III 23 19 21 25.5–.70 24.12S–.04 66.98W–.09 200 3.1b ¶16480495
IDC III 23 19 21 25.2–4.1 24.08S 66.79W 180–40 3.7,3.3
SJA III 23 19 21 26.2–.48 24.06S 66.08W 244–4 3.4L,2.9W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.2km az=0.5.
IDC Error ellipse: s-maj=56.1km s-min=28.0km az=105.0.
SJA Error ellipse: s-maj=2.9km s-min=10.4km az=-1.0.
ISC III 24 10 13 18.8–1.0 24.0S–.10 66.8W–.20 181 8 8-146
ISCJB III 24 10 13 18.5–1.0 24.0S–.10 66.7W–.30 181 3.2b ¶17198326
IDC III 24 10 13 20.4–3.1 23.94S 66.87W 198–27 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.7km s-min=15.1km az=9.9.
IDC Error ellipse: s-maj=41.1km s-min=28.2km az=111.0.
ISC III 25 01 48 54.8–1.4 24.17S–.05 66.99W–.07 181 21 2-7
SJA III 25 01 48 53.3–1.1 24.07S 66.89W 220–43 4.1W,3.1L ¶16630974
ISCJB III 25 01 48 55.3–.72 24.20S–.04 67.05W–.07 181 4.1W,3.1L
GUC III 25 01 48 56.9–.39 24.03S 67.42W 217–21 4.1L,3.1L
ISC Event type ke.
SJA Error ellipse: s-maj=9.5km s-min=31.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.4km az=152.1.
GUC Error ellipse: s-maj=5.3km s-min=19.5km az=-1.0.
ISC III 31 04 07 39.0–.31 24.03S–.04 66.86W–.04 200 4.5b 493 1-171
SCB III 31 04 07 34.8–.73 24.01S 67.11W 174 4.6L ¶16399891
NEIC III 31 04 07 37.5–.57 24.06S 66.65W 181–5 4.5b,4.3
ISCJB III 31 04 07 37.9–.15 24.04S–.03 66.84W–.03 200 4.4b,4.3
BJI III 31 04 07 38.8 24.00S 66.60W 180 4.9b,4.3
IDC III 31 04 07 38.7–1.8 23.97S 66.64W 192–16 4.8,4.4
SJA III 31 04 07 38.0–.82 24.07S 66.70W 222–13 4.3W,4.1L
GUC III 31 04 07 40.3–.54 23.86S 67.30W 247–17 5.5L,4.1L
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=17.4km s-min=10.0km az=40.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.5km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.0km az=144.4.
IDC Error ellipse: s-maj=13.8km s-min=9.9km az=73.0.
SJA Error ellipse: s-maj=3.3km s-min=23.0km az=-1.0.
GUC Error ellipse: s-maj=5.0km s-min=13.2km az=-1.0.
ISC IV 01 08 36 31.6–.94 24.10S–.07 67.0W–.10 200 12 3-94
SJA IV 01 08 36 30.2–.48 24.14S 66.77W 240–38 2.5W,2.5L ¶16647959
ISCJB IV 01 08 36 31.1–.61 24.12S–.05 66.9W–.10 200 3.0b,2.5L
IDC IV 01 08 36 35.8–10 23.73S 66.48W 199–73 3.5,3.3
ISC Event type ke.
SJA Error ellipse: s-maj=16.8km s-min=30.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=6.4km az=172.4.
IDC Error ellipse: s-maj=107.6km s-min=22.8km az=21.0.
ISC IV 03 00 51 59.4–.90 22.86S–.09 64.5W–.10 600 16 1-144
SJA IV 03 00 51 51.4–.63 22.94S 64.06W 618–30 4.5L,2.9W ¶16648052
IDC IV 03 00 52 04.1–8.1 22.16S 63.71W 565–65 4.0,3.5b
ISC Event type ke.
SJA Error ellipse: s-maj=11.7km s-min=31.4km az=-1.0.
IDC Error ellipse: s-maj=157.8km s-min=42.3km az=9.0.
SJA IV 21 00 35 45.1–.59 24.71S 64.45W 25–2 3.6W,1.8L
¶16649094
SJA Error ellipse: s-maj=2.0km s-min=2.4km az=-1.0.
ISC IV 26 12 14 18.7–.36 24.08S–.04 66.60W–.06 195 4.5b 357 1-156
SCB IV 26 12 14 14.2–.39 24.14S 66.93W 200 3.9L ¶16460944
ISCJB IV 26 12 14 17.4–.17 23.98S–.03 66.42W–.05 195 4.4b
NEIC IV 26 12 14 19.0–.48 24.05S 66.39W 194–4 4.7,4.7b
IDC IV 26 12 14 19.4–1.9 23.96S 66.34W 197–16 4.3,4.0
SJA IV 26 12 14 20.4–.64 24.09S 66.42W 209–10 4.5L,3.7W
ISC Event type ke.
SCB Event type ke. Error ellipse: s-maj=9.6km s-min=5.5km az=37.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.4km az=169.9.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=64.0.
IDC Error ellipse: s-maj=16.0km s-min=11.1km az=51.0.
SJA Error ellipse: s-maj=3.3km s-min=11.8km az=-1.0.
ISC V 09 06 45 02.7–1.2 24.06S–.09 66.89W–.06 178 18 2-147
SJA V 09 06 44 49.7–.49 24.50S 68.37W 64–23 3.5W,2.9L ¶17203109
ISCJB V 09 06 45 04.1–.84 24.04S–.08 66.97W–.05 178 3.3b,2.9L
GUC V 09 06 45 04.9–.48 23.98S 67.50W 238–18 3.9L,2.9L
IDC V 09 06 45 10.6–10 23.27S 66.19W 226–77 3.5,3.1b
ISC Event type ke.
SJA Error ellipse: s-maj=14.8km s-min=5.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.7km az=3.4.
GUC Error ellipse: s-maj=5.2km s-min=14.9km az=-1.0.
IDC Error ellipse: s-maj=123.3km s-min=71.9km az=39.0.
ISC V 09 15 31 06.6–.75 24.01S–.06 67.00W–.05 181 3.6b 34 2-147
SJA V 09 15 31 05.3–.68 24.02S 66.91W 218–9 4.4W,4.0L ¶16709273
IDC V 09 15 31 05.6–1.5 23.97S 66.77W 183–11 3.7,3.5
ISCJB V 09 15 31 07.2–.48 24.04S–.06 67.03W–.04 181 3.5b,3.5
GUC V 09 15 31 09.3–.31 23.77S 67.51W 236–9 4.7L,3.5
ISC Event type ke.
SJA Error ellipse: s-maj=4.3km s-min=14.6km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=16.2km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.3km az=29.1.
GUC Error ellipse: s-maj=4.7km s-min=8.0km az=-1.0.
ISC V 11 21 06 14.6–1.1 24.09S–.08 66.89W–.09 181 14 1-147
IDC V 11 21 06 13.5–3.3 24.10S 66.72W 170–33 4.0,3.6 ¶16709641
SJA V 11 21 06 14.1–.62 24.15S 67.05W 180–21 3.4W,3.0L
ISCJB V 11 21 06 15.1–.72 24.15S–.07 66.98W–.09 181 3.6b,3.0L
ISC Event type ke.
ISCJB Event type ke.
ISC V 17 12 44 10.8–.35 23.52S–.04 63.71W–.05 545–3 4.8b 1004 1-171
SCB V 17 12 44 06.0–.31 22.41S 63.87W 555 4.7L ¶16527335
SJA V 17 12 44 06.2–.56 23.78S 64.12W 590 5.1L,4.6W
ISCJB V 17 12 44 09.9–.23 23.40S–.03 63.64W–.03 540–2 4.8b,4.6W
NEIC V 17 12 44 10.2–.31 23.49S 63.59W 532–3 4.8b,4.6
MOS V 17 12 44 10.3–.97 23.44S 63.59W 540 4.8b,4.6
GCMT V 17 12 44 10.2–.50 23.73S 63.40W 556–3 5.4W,4.6
IDC V 17 12 44 11.1–.44 23.50S 63.67W 544–4 5.3,4.5
ISC Event type fe.
SCB Event type ke. Error ellipse: s-maj=10.1km s-min=7.2km az=22.0.
SJA Error ellipse: s-maj=6.3km s-min=20.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=142.4.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.5km az=60.0. Felt at Salta.
MOS Error ellipse: s-maj=12.9km s-min=6.7km az=111.6.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s54,c68;Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.11±.06 $M_{\theta\theta}$0.07±.09; $M_{\phi\phi}$1.03±.11; $M_{r\theta}$-0.30±.10; $M_{\theta\phi}$-0.57±.10; $M_{\phi r}$0.87±.10; Best double couple: NP1:ϕ_s159.00000°,δ64.00000°,λ-86.00000°. NP2:ϕ_s330.00000°,δ27.00000°,λ-98.00000°. Principal axes: T 1.6060,Plg19.0000°,Azm246.0000°; N -0.1910,Plg4.0000°,Azm337.0000°; P -1.4230,Plg71.0000°,Azm78.0000° $M_0$1.51400×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=7.3km az=60.0.
SJA VI 07 03 16 56.7–.36 24.18S 66.95W 246–16 3.5W,2.6L
¶16989252
SJA Error ellipse: s-maj=2.3km s-min=15.5km az=-1.0.
SJA VI 09 08 57 47.0–.63 23.66S 63.61W 20–5 3.7W,3.2L
¶16989289
SJA Error ellipse: s-maj=3.6km s-min=8.0km az=-1.0.
SJA VI 11 09 57 29.2–.83 24.86S 65.75W 7–4 3.5W,2.8L
¶16989326
SJA Error ellipse: s-maj=1.9km s-min=5.5km az=-1.0.
ISC VI 17 20 39 39.9–.89 24.07S–.09 66.78W–.08 181 14 2-146
IDC VI 17 20 39 39.8–1.8 24.13S 66.85W 190–14 3.5,3.2 ¶16730833
SJA VI 17 20 39 39.5–.34 24.05S 67.03W 178–29 2.8W,2.1L
ISCJB VI 17 20 39 40.4–.71 24.01S–.08 66.71W–.08 181 3.1b,2.1L
ISC Event type ke.
ISCJB Event type ke.
SJA VI 18 12 49 18.7–.37 24.02S 66.26W 29–194 3.9W,2.0L
¶16989451
SJA Error ellipse: s-maj=156.2km s-min=73.7km az=-1.0.
IDC VI 24 13 29 57.3–5.1 25.67S 66.79W 0 4.3L,4.0
¶17206871
IDC Error ellipse: s-maj=156.7km s-min=53.4km az=59.0.

(130) Catamarca Province.
SJA I 03 08 23 32.6–.58 26.21S 66.67W 10–11 2.5L,2.3W
¶601890946
SJA Error ellipse: s-maj=7.9km s-min=6.1km az=-1.0.
SJA I 14 08 39 42.3–1.0 26.01S 66.69W 10 3.7W,3.5L
¶601891090
SJA Error ellipse: s-maj=3.0km s-min=3.7km az=-1.0.
IDC I 14 18 39 55.9–3.1 26.18S 66.33W 0 4.0,4.0s
¶17190204
IDC Error ellipse: s-maj=93.5km s-min=27.2km az=40.0.
ISC II 03 02 35 07.4–.80 27.25S–.05 67.26W–.06 150 3.8b 25 2-149
ISCJB II 03 02 35 06.9–.43 27.24S–.04 67.31W–.05 150 3.7b ¶17191569
SJA II 03 02 35 06.8–.75 27.33S 67.09W 161–8 3.3L
GUC II 03 02 35 08.3–.63 27.31S 67.28W 98–16 5.0L
IDC II 03 02 35 12.2–4.2 26.91S 67.12W 177–25 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.8km az=42.7.
SJA Error ellipse: s-maj=3.9km s-min=6.0km az=-1.0.
GUC Error ellipse: s-maj=8.5km s-min=7.5km az=-1.0.
IDC Error ellipse: s-maj=57.2km s-min=20.4km az=35.0.
ISC II 20 22 25 50.2–.35 27.90S–.03 66.66W–.04 167–3 4.9b 207 1-174
ISCJB II 20 22 25 49.3–.22 27.93S–.02 66.71W–.03 172–2 4.7b ¶16057023
NEIC II 20 22 25 49.0 27.90S 66.58W 152 5.0b,4.8
SJA II 20 22 25 49.9–1.1 27.96S 66.73W 174–5 4.3L,4.8
GUC II 20 22 25 50.8–.41 27.98S 66.78W 170–43 5.4L,4.8
IDC II 20 22 25 51.4–.48 27.84S 66.40W 169–3 4.8,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=10.7.
NEIC Event type fe. Felt [III] at Catamarca. After SJA.
SJA Error ellipse: s-maj=2.5km s-min=5.3km az=-1.0.
GUC Error ellipse: s-maj=2.2km s-min=16.8km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=10.6km az=89.0.
ISC III 28 08 04 25.5–.71 27.66S–.06 67.42W–.08 137 3.6b 28 1-150
IDC III 28 08 04 22.2–5.0 27.74S 67.50W 112–38 3.8,3.5 ¶16475482
ISCJB III 28 08 04 24.7–.52 27.64S–.04 67.48W–.08 137 3.6b,3.5
SJA III 28 08 04 24.9–.95 27.73S 67.42W 156–6 3.5W,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=23.3km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.5km az=12.3.
SJA Error ellipse: s-maj=3.7km s-min=5.4km az=-1.0.
ISC III 29 09 16 28.0–.73 27.89S–.06 66.75W–.07 167 4.0b 33 1-149
GUC III 29 09 16 24.0 27.99S 66.29W 123 4.0b ¶16475642
ISCJB III 29 09 16 26.8–.37 27.82S–.03 66.86W–.04 167 3.9b
SJA III 29 09 16 27.4–1.4 27.92S 66.71W 179–8 4.2L,3.6W
IDC III 29 09 16 27.5–2.8 27.88S 66.61W 155–24 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=41.9.
SJA Error ellipse: s-maj=5.5km s-min=7.9km az=-1.0.
IDC Error ellipse: s-maj=33.3km s-min=24.1km az=122.0.
ISC III 31 21 41 12.3–.93 27.68S–.05 67.37W–.05 68–9 4.1b 41 1-149
SJA III 31 21 41 08.5–.89 27.66S 67.46W 18–4 4.6L,4.0W ¶16476031
IDC III 31 21 41 11.8–3.0 27.83S 67.10W 57–25 4.0,3.9L
NEIC III 31 21 41 11.9–1.1 27.64S 67.32W 62–11 4.6,4.1b
ISCJB III 31 21 41 11.7–.41 27.67S–.03 67.42W–.05 85–6 4.0b,4.1b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Aimogasta, Belen and Tinogasta; [III] at Catamarca and La Rioja.
ISCJB Event type fe.
SJA IV 08 01 41 33.4–.87 26.97S 66.96W 18–11 3.5W,3.1L
¶16648334
SJA Error ellipse: s-maj=4.3km s-min=8.7km az=-1.0.

SJA IV 08 12 19 19.1–1.0 27.98S 66.69W 178–6 3.5W,3.0L
¶16648355
SJA Error ellipse: s-maj=5.1km s-min=10.9km az=-1.0.
SJA IV 21 12 40 05.9–.53 28.98S 66.91W 32–2 3.6W,1.4L
¶16649107
SJA Error ellipse: s-maj=2.8km s-min=2.5km az=-1.0.
SJA IV 21 21 33 08.2–.48 27.32S 66.43W 60–31 3.9W,2.0L
¶16649116
SJA Error ellipse: s-maj=1.4km s-min=5.1km az=-1.0.
SJA IV 24 16 57 25.1–.48 27.79S 67.40W 149–5 3.5W,2.2L
¶16649333
SJA Error ellipse: s-maj=3.2km s-min=2.8km az=-1.0.
SJA IV 24 20 45 25.7–.54 27.30S 66.43W 111–9 3.8W,1.8L
¶16649338
SJA Error ellipse: s-maj=1.8km s-min=5.5km az=-1.0.
ISC V 18 21 27 58.4–.59 26.57S–.04 66.94W–.05 150 4.7b 54 1-148
IDC V 18 21 27 34.7–2.5 28.01S 68.27W 0 4.4,4.4L **¶16710228**
SJA V 18 21 27 58.4–1.4 26.65S 66.63W 198–10 3.8W,3.7L
ISCJB V 18 21 27 59.1–.33 26.58S–.03 67.02W–.05 150 4.6b,3.7L
NEIC V 18 21 27 59.4–.85 26.59S 66.70W 160–10 4.7b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=70.7km s-min=53.9km az=40.0.
SJA Error ellipse: s-maj=5.1km s-min=11.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.6km az=172.1.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=9.4km az=83.0.
SJA VI 14 18 31 13.5–.29 28.64S 66.13W 118–7 3.6W,2.1L
¶16989378
SJA Error ellipse: s-maj=0.8km s-min=1.5km az=-1.0.
ISC VI 18 08 09 06.0–.80 27.83S–.05 66.91W–.07 167–7 29 1-149
SJA VI 18 08 09 04.8–.42 27.86S 66.84W 178–2 4.0W,3.0L **¶16730868**
IDC VI 18 08 09 05.0–4.0 27.85S 67.00W 149–30 3.4,3.1b
ISCJB VI 18 08 09 05.3–.56 27.86S–.04 66.87W–.07 172–6 3.1b,3.1b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 13 57 30.9–.26 28.00S–.03 66.67W–.04 163–2 5.3b 1183 1-176
ISCJB VI 22 13 57 28.6–.37 27.87S–.03 66.58W–.03 151–3 5.2b **¶16644203**
SJA VI 22 13 57 29.7–.69 28.10S 66.66W 180–7 5.3L,5.0W
IDC VI 22 13 57 31.2–.32 27.98S 66.57W 163–2 5.4,5.0
NEIC VI 22 13 57 31.2–.12 27.96S 66.56W 164 5.3b,5.3
MOS VI 22 13 57 31.6–1.1 27.76S 66.64W 168 5.3b,5.3
GUC VI 22 13 57 31.1–.70 27.99S 66.79W 126–146 5.7W,5.3
GCMT VI 22 13 57 31.2–.20 28.24S 66.82W 174–1 5.3W,5.3
BJI VI 22 13 57 32.0 27.90S 66.50W 153 5.2b,5.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=140.7.
SJA Error ellipse: s-maj=3.7km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=7.5km az=70.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=62.0. Felt [IV] at Catamarca, Tinogasta and in northern La Rioja. Also felt at Cordoba. Felt [III] at Caldera and [II] at Copiapo and Tierra Amarilla, Chile.
MOS Error ellipse: s-maj=13.1km s-min=6.8km az=107.0.
GUC Error ellipse: s-maj=3.6km s-min=40.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c89; s105,c163; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.31±.03 $M_{\theta\theta}$-0.36±.03; $M_{\phi\phi}$0.05±.04; $M_{r\theta}$0.79±.02; $M_{\theta\phi}$-0.74±.03; $M_{\phi r}$-0.33±.02; Best double couple: NP1:ϕ_s94.00000°,δ78.00000° ,λ133.00000°. NP2:ϕ_s196.00000°,δ44.00000°,λ17.00000°. Principal axes: T 1.2520,Plg40.0000°,Azm43.0000°; N -0.1540,Plg42.0000°,Azm263.0000° ; P -1.0990,Plg21.0000°,Azm152.0000° $M_0$1.17500×10^{17}
SJA VI 23 11 12 50.4–.64 27.89S 66.69W 188–7 3.5W,3.1L
¶16989535
SJA Error ellipse: s-maj=3.4km s-min=4.3km az=-1.0.
SJA VI 29 08 45 41.1–.30 27.38S 66.12W 11–2 3.7W,2.5L
¶16989689
SJA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

(131) Tucuman Province.

SJA VI 16 21 11 00.5–.80 27.50S 65.51W 204–46 3.8W,3.4L
¶16989427
SJA Error ellipse: s-maj=22.9km s-min=16.0km az=-1.0.

(132) Santiago del Estero Province.

ISC I 01 09 56 58.5–.16 26.85S–.02 63.24W–.03 584–1 6.7b 2994 2-177
SJA I 01 09 56 50.8–.55 26.90S 63.68W 649–5 6.9W **¶601988567**
BJI I 01 09 56 56.9 26.19S 63.90W 574 6.8b
NEIC I 01 09 56 57.0–.00 26.84S 63.15W 562 6.8b
MOS I 01 09 56 57.6–.94 26.82S 63.28W 582 6.7b
ISCJB I 01 09 56 57.5–.18 26.78S–.02 63.18W–.02 581–2 6.6b
NEIC I 01 09 56 58.1–.09 26.80S 63.14W 577 7.0,7.0W
GCMT I 01 09 56 58.1–.10 27.02S 63.21W 586–0 7.0W,7.0W
GUC I 01 09 56 59.3–1.9 26.80S 63.31W 554–53 7.0W,7.0W
IDC I 01 09 56 59.1–.22 26.82S 63.24W 587–2 6.8,6.1
NEIC I 01 09 57 18.2–.00 27.01S 63.00W 593 6.8,6.1
ISC Event type fe.
SJA Error ellipse: s-maj=3.6km s-min=7.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.14 $M_{\theta\theta}$-0.29 $M_{\phi\phi}$2.43 $M_{r\theta}$-1.62 $M_{\theta\phi}$-0.54 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s152.00000° ,δ72.00000°,λ-102.00000°. NP2:ϕ_s8.00000°,δ21.00000°,λ-55.00000°. Principal axes: T 3.9400,Plg26.0000°,Azm252.0000°; N -0.1500,Plg12.0000°,Azm156.0000° ; P -3.7900,Plg61.0000°,Azm43.0000° $M_0$3.90000×10^{19}
MOS Error ellipse: s-maj=9.8km s-min=6.0km az=97.9.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=149.4.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=63.0. Felt [V] at Santiago del Estero and [III] in Cordoba, Corrientes and La Rioja. Also felt at Rosario and San Juan. Felt [III] at Campinas, Brazil. Also felt at Brasilia, Londrina, Marilia, Nova Friburgo, Rio Negro and Sao Paulo. Felt [III] at Mejillones and Pozo Almonte; [II] at Antofagasta, Arica, Coquimbo, Huara, La Serena and Vina del Mar, Chile. Also felt at Calama, Chillan, Quilpue and Valparaiso. Complex earthquake, with at least one larger event occurring about 2 seconds after the onset observed on broadband displacement seismograms. Depth from broadband displacement seismograms based on first event. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=150s. Moment Tensor Solution. s139,c381; s129,c284; Duration: 8s0 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.47±.01 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$2.59±.02; $M_{r\theta}$-1.76±.01; $M_{\theta\phi}$-0.77±.02; $M_{\phi r}$2.98±.01; Best double couple: NP1:ϕ_s152.00000°,δ72.00000° ,λ-99.00000°. NP2:ϕ_s360.00000°,δ20.00000°,λ-64.00000°. Principal axes: T 4.4440,Plg26.0000°,Azm250.0000°; N -0.1840,Plg9.0000°,Azm155.0000° ; P -4.2650,Plg62.0000°,Azm48.0000° $M_0$4.35500×10^{19}
GUC Error ellipse: s-maj=7.1km s-min=30.3km az=-1.0.
IDC Error ellipse: s-maj=6.7km s-min=4.7km az=69.0.
NEIC Event type se. Moment Tensor Solution. s99 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.60 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$2.61 $M_{r\theta}$-1.76 $M_{\theta\phi}$-0.83 $M_{\phi r}$2.84 Best double couple: NP1:ϕ_s152.00000° ,δ71.00000°,λ-99.00000°. NP2:ϕ_s357.00000°,δ21.00000°,λ-66.00000°. Principal axes: T 4.3700,Plg25.0000°,Azm249.0000°; N -0.1200,Plg8.0000°,Azm155.0000° ; P -4.2600,Plg63.0000°,Azm47.0000° $M_0$4.30000×10^{19}
ISC I 01 09 59 37.3–.32 26.87S–.07 63.22W–.09 600 5.7b 111 5-166
ISCJB I 01 09 59 36.6–.40 26.82S–.08 63.15W–.09 600 5.6b **¶16394566**
MOS I 01 09 59 37.1–.82 26.78S 63.10W 605 5.7b
IDC I 01 09 59 37.1–.67 26.84S 63.15W 591–7 6.2,5.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=7.8km az=137.9.
MOS Error ellipse: s-maj=23.3km s-min=15.4km az=106.8.
IDC Error ellipse: s-maj=14.7km s-min=8.8km az=68.0.
ISC I 01 10 38 59.8–1.4 26.9S–.30 63.7W–.30 561 3.9b 18 26-166
IDC I 01 10 38 51.5–9.5 27.15S 63.73W 473–94 4.5,4.0 **¶17189124**
ISC Event type ke.
IDC Error ellipse: s-maj=60.2km s-min=19.6km az=36.0.
SJA I 08 00 52 23.8–.68 27.64S 64.56W 18–3 3.7L,3.6W
¶601890987
SJA Error ellipse: s-maj=1.8km s-min=4.7km az=-1.0.
SJA II 18 04 59 19.8–.36 28.27S 65.83W 21–2 3.4W,2.3L
¶602036019
SJA Error ellipse: s-maj=2.5km s-min=3.5km az=-1.0.
ISC II 21 06 58 36.7–.29 27.13S–.03 64.70W–.04 14–1 6.0b,5.4s 1492 1-176
SJA II 21 06 58 34.6–.42 27.27S 64.66W 10 5.6L,5.4W **¶16033753**
IDC II 21 06 58 34.4–.31 27.13S 64.76W 0 5.3,5.3b
ISCJB II 21 06 58 36.0–.14 27.05S–.02 64.75W–.03 18 5.8b,5.4s
BJI II 21 06 58 35.1 26.76S 64.95W 11 5.7b,5.7s
NEIC II 21 06 58 36.4–.38 27.15S 64.69W 13–2 6.0b,5.9
GCMT II 21 06 58 36.4–.10 27.22S 64.80W 24–0 5.6W,5.9
MOS II 21 06 58 39.4–.95 26.81S 64.69W 33 6.1b,5.4s
ISC Event type fe.
SJA Error ellipse: s-maj=0.8km s-min=2.2km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=17.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=62.0. Felt [VI] in the Agua Dulce-Ranchillos area; [V] at San Miguel de Tucuman and Termas de Rio Hondo; [IV] at Santiago del Estero; [III] at Catamarca and Salta; [II] at Cordoba. Also felt at La Rioja and in Chaco. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}2.19 $M_{\theta\theta}$0.48 $M_{\phi\phi}$-2.68 $M_{r\theta}$-1.01 $M_{\theta\phi}$-1.89 $M_{\phi r}$0.41 Best double couple: NP1:ϕ_s355.00000°,δ54.00000° ,λ45.00000°. NP2:ϕ_s235.00000°,δ55.00000°,λ134.00000°. Principal axes: T 2.9400,Plg55.0000°,Azm204.0000°; N 0.6200,Plg35.0000°,Azm26.0000° ; P -3.5600,Plg1.0000°,Azm295.0000° $M_0$3.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c139; s103,c234;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32±.04 $M_{\theta\theta}$0.24±.03; $M_{\phi\phi}$-2.56±.04; $M_{r\theta}$-0.56±.05; $M_{\theta\phi}$0.32±.02; $M_{\phi r}$1.04±.06; Best double couple: NP1: ϕ_s344.00000°,δ58.00000°,λ79.00000°. NP2:ϕ_s184.00000°,δ34.00000°,λ108.00000°. Principal axes: T 2.6300,Plg74.0000°,Azm222.0000°; N 0.2040,Plg10.0000°,Azm350.0000° ; P -2.8320,Plg12.0000°,Azm82.0000° $M_0$2.73100×10^{17}
MOS Error ellipse: s-maj=11.2km s-min=6.6km az=112.5.
SJA II 23 06 00 55.7–.69 27.29S 64.75W 11 3.0W,2.6L
¶602036124
SJA Error ellipse: s-maj=1.2km s-min=3.6km az=-1.0.
SJA III 02 14 07 57.7–1.0 29.80S 63.90W 665–30 3.8L
¶16603292
SJA Error ellipse: s-maj=16.4km s-min=62.4km az=-1.0.
ISC III 11 09 00 22.4–.51 28.28S–.06 63.24W–.07 550 4.2b 57 2-147
SJA III 11 09 00 16.5–1.2 28.41S 63.08W 596–19 4.3L,3.8W **¶16476254**
ISCJB III 11 09 00 22.1–.36 28.29S–.04 63.08W–.05 550 4.2b,3.8W
IDC III 11 09 00 23.0–1.1 28.34S 63.29W 565–13 4.6,3.8
ISC Event type ke.
SJA Error ellipse: s-maj=10.4km s-min=26.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=17.8.
IDC Error ellipse: s-maj=14.2km s-min=11.5km az=42.0.
ISC III 29 14 56 42.8–.63 27.77S–.10 63.49W–.10 600 3.7b 30 2-147
SJA III 29 14 56 36.7–.96 27.97S 63.09W 604–19 3.9W,3.9L **¶16475674**
ISCJB III 29 14 56 42.3–.41 27.77S–.08 63.45W–.08 600 3.9b,3.9L
IDC III 29 14 56 42.1–1.6 27.76S 63.38W 566–17 4.2,3.5b
ISC Event type ke.
SJA Error ellipse: s-maj=16.0km s-min=19.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=7.0km az=140.9.
IDC Error ellipse: s-maj=28.9km s-min=16.8km az=94.0.
ISC IV 17 01 24 32.9–.27 27.61S–.03 63.34W–.04 566–2 5.1b 1429 2-175
SJA IV 17 01 24 27.3–1.2 27.77S 63.41W 596–12 5.7L,5.0W **¶16442398**
ISCJB IV 17 01 24 32.0–.23 27.56S–.02 63.23W–.03 557–2 5.1b,5.0W
GCMT IV 17 01 24 33.2–.20 27.57S 63.14W 585–1 5.4W,5.0W
IDC IV 17 01 24 33.4–.34 27.53S 63.23W 563–3 5.5,4.7
NEIC IV 17 01 24 33.2–.11 27.62S 63.19W 563 5.6,5.1b
BJI IV 17 01 24 33.4 27.60S 63.20W 565 5.1b,5.1b
MOS IV 17 01 24 34.3–.89 27.36S 63.20W 574 5.2b,5.1b
GUC IV 17 01 24 35.4–1.9 27.58S 63.83W 578–77 6.1W,5.1b
ISC Event type se.
SJA Error ellipse: s-maj=9.7km s-min=11.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=145.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c149; s15,c15; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.53±.04 $M_{\theta\theta}$0.44±.06; $M_{\phi\phi}$1.09±.07; $M_{r\theta}$-0.34±.06; $M_{\theta\phi}$-0.77±.05; $M_{\phi r}$0.84±.06; Best double couple: NP1:ϕ_s152.00000°,δ60.00000° ,λ-84.00000°. NP2:ϕ_s320.00000°,δ31.00000°,λ-100.00000°. Principal axes: T 1.8320,Plg15.0000°,Azm238.0000°; N -0.0520,Plg5.0000°,Azm329.0000° ; P -1.7800,Plg74.0000°,Azm78.0000° $M_0$1.80600×10^{17}
IDC Error ellipse: s-maj=7.9km s-min=6.0km az=57.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=58.0.
MOS Error ellipse: s-maj=10.9km s-min=6.4km az=106.9.
GUC Error ellipse: s-maj=7.6km s-min=61.7km az=-1.0.
ISC IV 17 01 58 49.5–.27 27.55S–.03 63.31W–.03 562–2 5.6b 1814 2-176
SJA IV 17 01 58 42.4–1.1 27.71S 63.14W 595–12 6.1L,5.5W **¶16442401**
ISCJB IV 17 01 58 48.7–.18 27.52S–.02 63.24W–.02 557–2 5.5b,5.5W
GCMT IV 17 01 58 49.3–.10 27.61S 63.11W 574–1 5.8W,5.5W
IDC IV 17 01 58 49.6–.32 27.52S 63.32W 559–3 5.8,5.0
NEIC IV 17 01 58 49.3–.10 27.60S 63.20W 557 5.9,5.9W
BJI IV 17 01 58 49.9 27.55S 63.15W 547 5.4b,5.9W
MOS IV 17 01 58 50.2–.86 27.43S 63.28W 568 5.5b,5.9W
NEIC IV 17 01 58 50.0–.00 27.59S 63.27W 566 5.5b,5.9W
GUC IV 17 01 58 51.2–1.8 27.54S 63.60W 556–55 5.9W,5.9W
ISC Event type se.
SJA Error ellipse: s-maj=7.2km s-min=13.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.9km az=153.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s119,c221; s73,c77; Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.78±.05 $M_{\theta\theta}$0.98±.08; $M_{\phi\phi}$4.77±.10; $M_{r\theta}$-2.27±.08; $M_{\theta\phi}$0.01±.08; $M_{\phi r}$3.35±.08; Best double couple: NP1:ϕ_s157.00000°,δ68.00000° ,λ-112.00000°. NP2:ϕ_s24.00000°,δ31.00000°,λ-47.00000°. Principal axes: T 6.0080,Plg20.0000°,Azm263.0000°; N -0.1150,Plg20.0000°,Azm165.0000° ; P -5.8860,Plg61.0000°,Azm34.0000° $M_0$5.94700×10^{17}
IDC Error ellipse: s-maj=7.1km s-min=5.1km az=63.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=60.0. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.80 $M_{\theta\theta}$-0.46 $M_{\phi\phi}$6.26 $M_{r\theta}$-2.41 $M_{\theta\phi}$-0.54 $M_{\phi r}$4.05 Best double couple: NP1:ϕ_s11.00000°,δ29.00000°,λ-62.00000°. NP2:ϕ_s160.00000° ,δ64.00000°,λ-105.00000°. Principal axes: T 7.6900,Plg18.0000°,Azm261.0000° ; N 0.0000,Plg13.0000°,Azm166.0000°; P -7.6800,Plg67.0000°,Azm42.0000° $M_0$7.70000×10^{17}
MOS Error ellipse: s-maj=10.2km s-min=6.1km az=106.9.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.52 $M_{\theta\theta}$-1.23 $M_{\phi\phi}$4.75 $M_{r\theta}$-2.29 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.18 Best double couple: NP1:ϕ_s151.00000° ,δ65.00000°,λ-118.00000°. NP2:ϕ_s24.00000°,δ37.00000°,λ-44.00000°. Principal axes: T 5.4100,Plg15.0000°,Azm261.0000°; N -0.1700,Plg25.0000°,Azm164.0000° ; P -5.2400,Plg59.0000°,Azm19.0000° $M_0$5.30000×10^{17}
GUC Error ellipse: s-maj=5.5km s-min=37.8km az=-1.0.

(134) Off coast of central Chile.

ISC I 01 04 48 08.6–2.6 32.02S–.05 72.1W–.10 11–13 19 1-5
GUC I 01 04 48 16.1–.39 32.02S 71.50W 25–98 2.7L **¶601996230**
ISC Event type ke.
GUC Error ellipse: s-maj=58.9km s-min=21.2km az=-1.0.
ISC I 01 23 41 49.5–4.0 33.95S–.06 73.27W–.08 24–29 4.0b 35 2-154
IDC I 01 23 41 45.6–1.2 34.04S 73.34W 0 4.1L,3.9 **¶16007495**
ISCJB I 01 23 41 46.4–2.0 34.02S–.05 73.32W–.05 15–12 3.9b,3.9
NEIC I 01 23 41 48.0 33.99S 73.24W 26 4.1b,3.9
GUC I 01 23 41 48.1–.42 33.99S 73.24W 26–3 3.5L,3.9
ISC Event type se.
IDC Error ellipse: s-maj=41.9km s-min=20.4km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.3km az=22.3.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.4km s-min=4.0km az=-1.0.
ISC I 01 23 49 28.5–1.8 33.97S–.04 72.16W–.07 3–11 48 0-154
IDC I 01 23 49 27.9–3.0 34.00S 71.91W 0 3.9,3.8 **¶17189170**
GUC I 01 23 49 31.2–.60 34.00S 72.04W 16–6 3.8L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=111.6km s-min=22.7km az=91.0.
GUC Error ellipse: s-maj=1.7km s-min=4.7km az=-1.0.
ISC I 02 02 43 43.3–2.2 34.08S–.08 73.19W–.08 10–13 3.9b 29 1-85

IDC I 02 02 43 42.0–1.6 33.95S 73.16W 0 4.0,4.0L ¶17189179
ISCJB I 02 02 43 42.9–1.3 34.03S–.06 73.31W–.06 18–10 3.8b,4.0L
GUC I 02 02 43 43.8–.51 33.99S 73.26W 27–2 3.7L,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=50.8km s-min=30.3km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=8.1km az=180.0.
GUC Error ellipse: s-maj=2.9km s-min=4.1km az=-1.0.
IDC I 02 20 33 26.6–23 39.63S 74.12W 0 4.2,4.1
¶17189239
IDC Error ellipse: s-maj=942.2km s-min=48.9km az=25.0.
IDC I 02 20 35 56.8–23 39.22S 74.06W 0 4.1,4.0
¶17189240
IDC Error ellipse: s-maj=961.5km s-min=50.1km az=25.0.
IDC I 02 21 18 30.7–2.2 39.47S 74.23W 0 4.2,4.0
¶17189246
IDC Error ellipse: s-maj=60.7km s-min=37.0km az=18.0.
ISC I 02 21 45 07.2–1.3 38.9S–.10 74.1W–.10 35 4.0b 16 1-161
GUC I 02 21 44 50.3–.42 39.40S 74.77W 30–9 5.1L ¶17189255
IDC I 02 21 45 03.7–2.0 38.65S 73.86W 0 4.2L,4.0
ISC Event type ke.
GUC Error ellipse: s-maj=9.8km s-min=8.7km az=-1.0.
IDC Error ellipse: s-maj=51.0km s-min=36.7km az=21.0.
IDC I 02 21 51 02.3–1.8 38.91S 74.20W 0 4.2L,4.1
¶17189256
IDC Error ellipse: s-maj=65.6km s-min=33.9km az=28.0.
IDC I 02 22 13 39.5–3.0 39.88S 74.72W 0 3.8,3.5
¶17189257
IDC Error ellipse: s-maj=83.9km s-min=54.7km az=34.0.
ISC I 03 02 06 07.0–1.7 33.69S–.04 72.01W–.06 1–12 39 1-7
GUC I 03 02 06 08.6–.56 33.66S 71.99W 20–5 3.6L ¶601516012
ISC Event type ke.
GUC Error ellipse: s-maj=1.7km s-min=3.3km az=-1.0.
IDC I 03 09 15 47.0–10 39.91S 75.64W 0 4.2,3.9
¶17189315
IDC Error ellipse: s-maj=444.4km s-min=26.6km az=26.0.
IDC I 03 15 04 44.5–4.7 38.77S 74.63W 0 4.1L,3.9
¶17189331
IDC Error ellipse: s-maj=222.3km s-min=29.2km az=40.0.
GUC I 04 20 06 26.8–.45 38.67S 74.46W 20 4.1L
¶601516028
GUC Error ellipse: s-maj=2.6km s-min=4.8km az=-1.0.
ISC I 05 04 22 11.9–.53 38.33S–.05 75.03W–.08 35 4.4b,3.5s 58 1-174
IDC I 05 04 22 06.3–.73 38.36S 75.23W 0 4.2,4.0 ¶15927176
ISCJB I 05 04 22 10.4–.40 38.35S–.04 74.94W–.05 33 4.3b,3.4s
GUC I 05 04 22 10.4–.60 38.18S 74.88W 22–6 4.0L,3.4s
NEIC I 05 04 22 10.0 38.18S 74.88W 22 4.3b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=26.2km s-min=17.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.1km az=156.5.
GUC Error ellipse: s-maj=2.4km s-min=7.5km az=-1.0.
NEIC Event type fe. Felt [III] at San Pedro. After GUC.
ISC I 05 05 19 32.1–2.4 31.71S–.04 72.1W–.10 12–18 18 2-6
GUC I 05 05 19 36.7–.64 31.70S 71.88W 25–3 3.8L ¶601996237
ISC Event type ke.
GUC Error ellipse: s-maj=1.6km s-min=8.7km az=-1.0.
ISC I 07 02 30 32.2–.46 35.76S–.04 73.40W–.06 10 4.5b,4.2s 95 1-178
ISCJB I 07 02 30 30.8–.31 35.80S–.03 73.37W–.05 10 4.5b,4.0s ¶15908417
GUC I 07 02 30 30.7–.64 35.83S 73.66W 36–5 4.4L,4.0s
IDC I 07 02 30 30.5–.65 35.80S 73.23W 0 4.5,4.4b
NEIC I 07 02 30 32.4–.28 35.76S 73.11W 10 4.5b,4.4L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=14.0.
GUC Error ellipse: s-maj=3.3km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=13.3km az=83.0.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.7km az=79.0. Felt [II] at Rancagua.
ISC I 07 09 42 18.5–.30 35.78S–.03 73.41W–.05 10 5.2s,5.0b 499 1-178
GUC I 07 09 42 15.9–.45 35.71S 73.72W 18–7 5.6L,5.0b ¶15908759
ISCJB I 07 09 42 17.3–.17 35.77S–.03 73.41W–.03 10 5.0s,4.7b
IDC I 07 09 42 17.1–.44 35.75S 73.35W 0 5.1,5.1s
GCMT I 07 09 42 19.3–.10 35.87S 73.66W 12–0 5.4W,5.1s
BJI I 07 09 42 19.1 35.88S 72.78W 21 5.4b,5.4s
NEIC I 07 09 42 19.3–.23 35.74S 73.00W 10 5.6L,5.0b
MOS I 07 09 42 22.2–1.4 35.78S 72.85W 44 4.9b,5.0b
ISC Event type fe.
GUC Error ellipse: s-maj=2.7km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.7km az=0.2.
IDC Error ellipse: s-maj=13.4km s-min=8.0km az=96.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s69,c100; s105,c186;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.87±.02 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-0.94±.02; $M_{r\theta}$-0.03±.04; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-1.09±.07; Best double couple: NP1: ϕ_s184.00000°,δ70.00000°,λ83.00000°. NP2:ϕ_s22.00000°,δ21.00000°,λ107.00000°. Principal axes: T 1.3870,Plg64.0000°,Azm83.0000°; N 0.0950,Plg6.0000°,Azm186.0000° ; P -1.4820,Plg25.0000°,Azm279.0000° $M_0$1.43400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.8km az=69.0. Felt [III] at Cauquenes and [II] at Talca. Also felt at Talcahuano and Tome.
MOS Error ellipse: s-maj=19.7km s-min=9.3km az=99.3.
ISC I 07 09 43 24.9–1.3 35.6S–.20 73.4W–.30 35 4.7b 13 22-159
IDC I 07 09 43 19.9–1.4 35.68S 73.29W 0 4.7,4.7 ¶17189635
ISCJB I 07 09 43 21.1–2.7 35.5S–.20 73.8W–.70 33 4.7b,4.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 07 14 05 40.6–.59 35.86S–.05 73.38W–.08 35 4.5b,4.3s 38 1-159
IDC I 07 14 05 36.3–.75 35.78S 73.19W 0 4.5L,4.4 ¶15909683
NEIC I 07 14 05 37.0 35.84S 73.59W 38 4.6b,4.4
GCMT I 07 14 05 37.0–.50 35.72S 73.73W 35–0 5.1W,4.4
GUC I 07 14 05 37.4–.51 35.85S 73.59W 38–10 5.2L,4.4
ISCJB I 07 14 05 38.9–.46 35.83S–.04 73.45W–.07 33 4.5b,4.2s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Cauquenes; [III] at Chanco, Cobquecura, Constitucion, Empedrado, San Fabian and Tome; [II] at Chillan and Penco. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c39; s60,c73;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.92±.51 $M_{\theta\theta}$-2.43±.28; $M_{\phi\phi}$-4.49±.29; $M_{r\theta}$-0.80±.26; $M_{\theta\phi}$-1.33±.14; $M_{\phi r}$-1.51±.27; Best double couple: NP1:ϕ_s206.00000°,δ53.00000°,λ90.00000°. NP2:ϕ_s26.00000°,δ37.00000°,λ90.00000°. Principal axes: T 7.1570,Plg82.0000°,Azm118.0000°; N -1.7780,Plg0.0000°,Azm26.0000° ; P -5.3790,Plg8.0000°,Azm296.0000° $M_0$6.26800×10^{16}
ISCJB Event type fe.
GUC I 08 09 41 44.6–.91 33.34S 72.28W 44–7 3.6L
¶601516080
GUC Error ellipse: s-maj=9.0km s-min=6.0km az=-1.0.
ISC I 08 11 34 31.5–1.3 38.74S–.07 75.1W–.10 10 4.0b 28 2-162
ISCJB I 08 11 34 29.5–.99 38.60S–.05 75.2W–.10 10 3.9b,3.3s ¶602426834
NEIC I 08 11 34 32.0 38.89S 74.74W 18 4.6L,4.6b
GUC I 08 11 34 32.0–.43 38.89S 74.74W 18–15 4.6L,4.6b
IDC I 08 11 34 42.4–1.2 38.46S 73.59W 0 4.0,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.7km az=167.8.
NEIC Event type fe. Felt [II] at Angol, Puerto Saavedra and Temuco. After GUC.
GUC Error ellipse: s-maj=7.0km s-min=20.5km az=-1.0.
IDC Error ellipse: s-maj=37.0km s-min=20.5km az=50.0.
ISC I 08 13 13 03.1–1.2 35.58S–.09 73.5W–.10 35 3.8b 33 2-77
IDC I 08 13 12 58.0–1.2 35.78S 73.37W 0 3.9,3.8b ¶17189698
GUC I 08 13 12 59.1–.35 35.37S 73.71W 21–3 4.4L,3.8b
ISCJB I 08 13 13 01.1–.78 35.71S–.06 73.4W–.10 33 3.6b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 01 32 56.1–2.4 35.99S–.06 73.5W–.10 35 19 1-9
ISCJB I 09 01 32 53.8–1.2 35.91S–.04 73.6W–.10 33 ¶601516085
GUC I 09 01 32 56.5–.36 35.99S 73.51W 44–1 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=6.0km az=174.9.
GUC Error ellipse: s-maj=1.4km s-min=2.9km az=-1.0.
ISC I 09 08 19 05.5–1.9 35.87S–.04 73.53W–.09 25–12 3.8s,3.8b 29 1-168
NEIC I 09 08 19 02.0 35.81S 73.69W 21 4.2L,3.8b ¶15928064
GUC I 09 08 19 02.6–.30 35.93S 73.61W 4–1 4.1L,3.8b
IDC I 09 08 19 02.8–.94 35.83S 73.43W 0 4.2L,4.0
ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion. After GUC.
GUC Error ellipse: s-maj=0.7km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=20.5km az=92.0.
GUC I 09 09 25 12.1–.42 35.81S 73.77W 28–5 3.6L
¶601516096
GUC Error ellipse: s-maj=2.6km s-min=3.1km az=-1.0.
ISC I 09 10 25 23.8–2.3 35.85S–.05 73.6W–.20 35 19 1-8
ISCJB I 09 10 25 21.9–1.3 35.79S–.04 73.7W–.10 33 ¶601516098
GUC I 09 10 25 22.2–.39 35.76S 73.63W 22–5 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=5.5km az=4.1.
GUC Error ellipse: s-maj=2.3km s-min=2.9km az=-1.0.
ISC I 10 06 02 51.2–.43 35.72S–.03 73.32W–.04 23–2 5.8s,5.5b 986 1-178
GUC I 10 06 02 46.4–.30 35.60S 73.60W 23–1 6.0W,5.9L ¶15914934
IDC I 10 06 02 47.8–.36 35.68S 73.17W 0 5.8s,5.7
ISCJB I 10 06 02 49.5–.14 35.68S–.02 73.30W–.03 22 5.8s,5.4b
BJI I 10 06 02 50.7 36.00S 73.14W 30 6.0s,5.9
MOS I 10 06 02 50.1–1.1 35.61S 73.18W 22 6.0s,5.6b
NEIC I 10 06 02 52.0–.14 35.59S 73.06W 24 6.0W,5.9W
GCMT I 10 06 02 52.0–.10 35.77S 73.59W 12–0 5.9W,5.9W
NEIC I 10 06 03 04.9–.00 35.74S 72.93W 24 5.9W,5.9W
ISC Event type fe.
GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=10.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=157.1.
MOS Error ellipse: s-maj=19.3km s-min=7.0km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=67.0. Felt [V] at Coronel, Hualpen, Lota, Penco, Talcahuano and Tome; [IV] in the Arauco-Talca area. Felt in much of central Chile as far as Santiago and Temuco. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}3.79 $M_{\theta\theta}$-0.65 $M_{\phi\phi}$-3.14 $M_{r\theta}$-1.08 $M_{\theta\phi}$-0.27 $M_{\phi r}$-7.26 Best double couple: NP1: ϕ_s188.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s5.00000°,δ13.00000°,λ87.00000°. Principal axes: T 8.4300,Plg58.0000°,Azm99.0000°; N -0.6300,Plg1.0000°,Azm8.0000° ; P -7.8100,Plg32.0000°,Azm278.0000° $M_0$8.10000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c214; s123,c358;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}4.17±.05 $M_{\theta\theta}$-0.07±.03; $M_{\phi\phi}$-4.10±.04; $M_{r\theta}$-0.86±.11; $M_{\theta\phi}$-1.10±.03; $M_{\phi r}$-7.92±.29; Best double couple: NP1: ϕ_s187.00000°,δ76.00000°,λ86.00000°. NP2:ϕ_s22.00000°,δ14.00000°,λ105.00000°. Principal axes: T 8.9730,Plg59.0000°,Azm92.0000°; N 0.1370,Plg4.0000°,Azm188.0000° ; P -9.1120,Plg31.0000°,Azm280.0000° $M_0$9.04200×10^{17}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ76.00000° ,λ91.00000°. NP2:ϕ_s12.00000°,δ14.00000°,λ85.00000°. Principal axes: T 1.0500,Plg59.0000°,Azm108.0000°; N 0.0000,Plg1.0000°,Azm16.0000° ; P -1.0500,Plg31.0000°,Azm285.0000°
ISC I 10 06 14 25.6–3.7 35.82S–.04 73.40W–.09 24–27 3.9b 35 1-159
ISCJB I 10 06 14 21.9–1.8 35.71S–.03 73.50W–.07 7–12 4.0b ¶16150943
IDC I 10 06 14 22.8–1.2 35.64S 73.20W 0 4.1,4.0
NEIC I 10 06 14 25.0 35.82S 73.46W 35 4.2L,4.0
GUC I 10 06 14 25.2–.43 35.82S 73.45W 42–4 4.2L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.3km az=172.1.
IDC Error ellipse: s-maj=39.6km s-min=20.9km az=69.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.1km s-min=3.0km az=-1.0.
ISC I 10 06 28 29.7–2.2 35.76S–.05 73.5W–.10 35 15 1-8
ISCJB I 10 06 28 28.7–1.3 35.73S–.04 73.5W–.10 33 ¶601516110
GUC I 10 06 28 30.4–.42 35.81S 73.40W 46–4 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=6.0km az=178.6.
GUC Error ellipse: s-maj=2.3km s-min=3.4km az=-1.0.
ISC I 10 06 34 12.6–2.6 35.83S–.05 73.8W–.20 35 22 1-9
GUC I 10 06 34 09.0–.38 35.73S 73.73W 19–4 3.7L ¶601996240
ISC Event type ke.
GUC Error ellipse: s-maj=1.3km s-min=2.9km az=-1.0.
ISC I 10 06 50 57.1–.88 35.71S–.04 73.52W–.07 10 3.9b 40 1-163
ISCJB I 10 06 50 55.0–.70 35.64S–.03 73.56W–.07 10 3.8b ¶16150946
NEIC I 10 06 50 55.0 35.67S 73.66W 38 4.2
GUC I 10 06 50 55.1–.37 35.67S 73.66W 38–3 4.2L
IDC I 10 06 50 56.1–.99 35.78S 73.59W 0 3.9,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.3km az=177.1.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=28.8km s-min=18.8km az=86.0.
ISC I 10 08 09 12.1–2.3 35.82S–.06 73.5W–.10 35 18 1-9
ISCJB I 10 08 09 08.7–1.3 35.73S–.04 73.6W–.10 33 ¶601516114
GUC I 10 08 09 09.7–.40 35.77S 73.52W 41–4 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.0km az=175.0.
GUC Error ellipse: s-maj=2.3km s-min=3.0km az=-1.0.
ISC I 10 09 07 28.0–2.3 35.79S–.06 73.5W–.10 35 19 1-9
ISCJB I 10 09 07 25.2–1.2 35.71S–.04 73.6W–.10 33 ¶601516116
GUC I 10 09 07 26.5–.43 35.76S 73.48W 42–4 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=5.8km az=174.7.
GUC Error ellipse: s-maj=2.7km s-min=3.4km az=-1.0.
ISC I 10 09 53 23.4–2.3 35.68S–.06 73.5W–.10 2–20 21 1-8
GUC I 10 09 53 23.2–.41 35.66S 73.55W 33–3 3.9L ¶601516117
ISC Event type ke.
GUC Error ellipse: s-maj=1.3km s-min=3.0km az=-1.0.
ISC I 10 11 11 46.5–1.7 35.67S–.03 73.34W–.08 16–10 4.1b 34 1-168
IDC I 10 11 11 44.0–.87 35.66S 73.33W 0 4.1,4.0 ¶17189845
GUC I 10 11 11 47.7–.30 35.72S 73.28W 14–2 3.9L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=21.3km az=85.0.
GUC Error ellipse: s-maj=0.8km s-min=1.9km az=-1.0.
ISC I 11 01 05 23.1–2.0 35.72S–.04 73.43W–.07 3–11 4.6b,4.3s 80 1-178
GUC I 11 01 05 22.7–.36 35.71S 73.76W 40–2 4.5L,4.3s ¶15917538
ISCJB I 11 01 05 22.5–1.3 35.69S–.03 73.53W–.05 4–8 4.6b,4.3s
IDC I 11 01 05 23.4–.64 35.74S 73.29W 0 4.4b,4.4
GCMT I 11 01 05 28.2–.40 35.70S 73.79W 18–1 5.0W,4.4
NEIC I 11 01 05 28.2–3.3 35.66S 73.17W 31–22 4.8b,4.5L
BJI I 11 01 05 28.1 34.91S 72.83W 40 5.1b,5.0s
ISC Event type se.
GUC Error ellipse: s-maj=1.0km s-min=2.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=25.1.
IDC Error ellipse: s-maj=24.0km s-min=14.6km az=86.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c37; s64,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.78±.18 $M_{\theta\theta}$-0.60±.10; $M_{\phi\phi}$-2.18±.12; $M_{r\theta}$-1.07±.22; $M_{\theta\phi}$-1.08±.07; $M_{\phi r}$-2.51±.29; Best double couple: NP1:ϕ_s204.00000° ,δ67.00000°,λ88.00000°. NP2:ϕ_s29.00000°,δ23.00000°,λ95.00000°. Principal axes: T 3.9060,Plg68.0000°,Azm111.0000°; N -0.0560,Plg2.0000°,Azm205.0000° ; P -3.8480,Plg22.0000°,Azm296.0000° $M_0$3.87700×10^{16}
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=8.8km az=76.0.
ISC I 11 01 18 37.9–.96 35.74S–.04 73.68W–.08 10 4.1b 27 1-159
GUC I 11 01 18 35.7–.37 35.71S 73.77W 7–2 4.1L ¶15994816
NEIC I 11 01 18 35.0 35.71S 73.77W 7 4.1L
ISCJB I 11 01 18 36.6–.75 35.74S–.03 73.81W–.07 10 4.1b
IDC I 11 01 18 38.1–.92 35.74S 73.30W 0 4.0,4.0b
ISC Event type se.
GUC Error ellipse: s-maj=0.8km s-min=3.1km az=-1.0.
NEIC Event type se. After GUC.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.0km az=0.5.

IDC Error ellipse: s-maj=36.6km s-min=21.9km az=90.0.
ISC I 11 01 28 16.7–2.4 35.78S–.05 73.7W–.20 35 25 1-8
ISCJB I 11 01 28 14.9–1.1 35.72S–.04 73.7W–.10 33 **¶601516126**
GUC I 11 01 28 17.7–.29 35.83S 73.51W 42–2 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=5.1km az=0.9.
GUC Error ellipse: s-maj=1.2km s-min=2.0km az=-1.0.
ISC I 11 01 38 51.9–1.2 35.74S–.05 73.6W–.10 35 3.5b 29 1-77
IDC I 11 01 38 47.2–1.7 35.75S 73.59W 0 4.4,4.4s **¶17189885**
GUC I 11 01 38 48.5–.43 35.65S 73.61W 21–3 3.8L,4.4s
ISCJB I 11 01 38 49.6–.79 35.67S–.03 73.64W–.08 33 4.4s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 14 35 15.1–1.2 34.41S–.09 73.57W–.09 35 15 1-158
IDC I 13 14 35 09.5–1.8 34.42S 73.86W 0 4.0L,3.9 **¶17190056**
ISCJB I 13 14 35 12.7–1.0 34.44S–.08 73.65W–.07 33 4.4s,3.7b
GUC I 13 14 35 12.2–.49 34.41S 73.58W 35–3 3.8L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=66.2km s-min=32.5km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.1km az=163.9.
GUC Error ellipse: s-maj=3.6km s-min=4.3km az=-1.0.
ISC I 13 17 40 09.3–3.5 33.37S–.05 72.3W–.10 16–15 36 1-7
GUC I 13 17 40 06.3–.38 33.40S 72.54W 42–2 3.6L **¶601516171**
ISC Event type ke.
GUC Error ellipse: s-maj=1.8km s-min=2.3km az=-1.0.
ISC I 13 20 30 13.1–3.3 29.46S–.05 72.05W–.07 12–20 4.0b 37 1-166
IDC I 13 20 30 10.7–.95 29.42S 72.21W 0 4.0L,4.0 **¶15994848**
GUC I 13 20 30 15.7–.75 29.52S 71.91W 29–6 4.4L,4.0
NEIC I 13 20 30 15.7–.67 29.39S 72.07W 35 4.4L,3.9b
ISC Event type fe.
IDC Error ellipse: s-maj=30.1km s-min=26.5km az=120.0.
GUC Error ellipse: s-maj=2.0km s-min=6.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.9km s-min=11.4km az=110.0. Felt [III] at Coquimbo and La Serena; [II] at La Higuera.
ISC I 16 00 27 35.8–2.7 29.36S–.06 72.1W–.10 35 26 1-6
GUC I 16 00 27 37.6–.32 29.44S 71.69W 43–3 3.7L **¶601996247**
ISC Event type ke.
GUC Error ellipse: s-maj=2.1km s-min=3.7km az=-1.0.
GUC I 19 02 40 42.4–.55 33.98S 72.19W 15–5 3.6L
¶601516234
GUC Error ellipse: s-maj=1.7km s-min=5.1km az=-1.0.
ISC I 19 05 20 05.2–.64 33.99S–.03 72.29W–.05 27–4 5.2b,4.8s 706 0-179
GUC I 19 05 20 00.9–.54 33.96S 72.45W 13–10 5.4L,4.8s **¶15938057**
NEIC I 19 05 20 00.0 33.96S 72.45W 13 5.4L,5.3b
ISCJB I 19 05 20 02.1–.95 33.99S–.03 72.51W–.03 18–7 5.1b,4.7s
MOS I 19 05 20 05.2–1.1 33.97S 71.98W 33 5.1b,4.7s
IDC I 19 05 20 05.5–4.5 33.96S 72.07W 28–30 4.7,4.7
BJI I 19 05 20 05.4 33.84S 71.16W 32 5.5s,5.4b
ISC Event type fe.
GUC Error ellipse: s-maj=1.9km s-min=10.1km az=-1.0.
NEIC Event type fe. Felt [IV] at Navidad, Paredones and Pichilemu; [III] at Cartagena, Curico, El Tabo, La Estrella, Las Cabras, Linares, Marchihue, Molina, Mostazal, Rancagua, Rio Claro, San Antonio, San Fernando, Santa Cruz, Santo Domingo and Talca; [II] at Chanco, Parral, Valparaiso and Vina del Mar. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=42.4.
MOS Error ellipse: s-maj=20.4km s-min=11.0km az=82.8.
IDC Error ellipse: s-maj=19.3km s-min=12.4km az=87.0.
ISC I 19 05 27 49.7–.99 33.97S–.05 72.21W–.07 17 17 0-166
GUC I 19 05 27 46.2–.55 33.95S 72.52W 22–7 3.9L **¶17190532**
IDC I 19 05 27 47.5–1.5 33.92S 72.03W 0 3.9,3.7
ISC Event type ke.
GUC Error ellipse: s-maj=2.5km s-min=9.1km az=-1.0.
IDC Error ellipse: s-maj=63.4km s-min=33.7km az=76.0.
ISC I 19 06 56 31.1–1.8 38.33S–.05 74.2W–.20 35 12 2-87
IDC I 19 06 56 18.6–5.3 39.23S 75.52W 0 4.4L,3.8 **¶17190536**
ISCJB I 19 06 56 27.8–1.6 38.32S–.04 74.4W–.20 33 4.3s,3.5b
GUC I 19 06 56 28.9–.47 38.31S 74.16W 19–3 3.8L,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=117.0km s-min=34.1km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=5.8km az=0.3.
GUC Error ellipse: s-maj=1.3km s-min=7.2km az=-1.0.
ISC I 19 12 47 12.1–2.5 33.95S–.05 72.38W–.08 5–15 4.5b,4.0s 55 1-172
ISCJB I 19 12 47 09.8–1.2 33.92S–.04 72.56W–.04 3–8 4.5b,4.0s **¶15954494**
GUC I 19 12 47 10.8–.43 33.95S 72.49W 21–2 4.4L,4.0s
IDC I 19 12 47 12.0–.94 33.93S 71.99W 0 4.2,4.2L
NEIC I 19 12 47 17.7–.46 33.82S 72.10W 35 4.5b,4.4L
BJI I 19 12 47 18.5 34.09S 72.89W 42 5.1b,4.4L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.3km az=152.1.
GUC Error ellipse: s-maj=1.3km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=35.4km s-min=21.3km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=8.1km az=81.0. Felt [II] at Rancagua. Also felt at San Antonio, Valparaiso and Vina del Mar.
ISC I 19 13 39 46.5–1.0 38.51S–.06 75.21W–.10 35 3.7b 28 1-162
IDC I 19 13 39 40.0–1.5 38.89S 75.63W 0 4.4L,4.2 **¶17190561**
ISCJB I 19 13 39 44.9–.96 38.43S–.04 75.17W–.09 33 3.7b,3.5s
GUC I 19 13 39 44.7–.41 38.49S 75.17W 28–3 4.4L,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=31.4km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.2km az=169.1.
GUC Error ellipse: s-maj=1.5km s-min=3.5km az=-1.0.
ISC I 19 21 22 33.4–.65 33.92S–.04 72.22W–.06 30–4 4.9b,4.1s 227 1-176
IDC I 19 21 22 28.5–.47 33.95S 72.21W 0 4.7,4.6b **¶15940547**
ISCJB I 19 21 22 30.5–1.3 33.97S–.04 72.40W–.04 22–9 4.8b,4.1s
GUC I 19 21 22 30.4–.38 33.90S 72.36W 25–6 4.6L,4.1s
NEIC I 19 21 22 30.0 33.90S 72.36W 25 5.0b,4.6L
BJI I 19 21 22 32.3 33.57S 71.57W 27 5.3,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=13.9km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.1km az=161.4.
GUC Error ellipse: s-maj=1.5km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt [III] at Paredones and [II] at Lolol, Rancagua, Rengo, San Fernando and Santa Cruz. Also felt at Valparaiso and Vina del Mar. Felt at Mendoza, Argentina. After GUC.
ISC I 21 15 36 10.9–1.3 33.96S–.04 72.20W–.06 25–8 4.8b,4.4s 196 0-176
IDC I 21 15 36 07.0–.56 33.92S 72.26W 0 4.5,4.5L **¶15954510**
GUC I 21 15 36 09.6–.61 33.97S 72.25W 12–5 4.7L,4.5L
GCMT I 21 15 36 09.0–.50 34.03S 72.48W 28–1 5.0W,4.5L
NEIC I 21 15 36 09.0 33.97S 72.24W 12 5.0b,4.7L
BJI I 21 15 36 10.8 34.00S 71.80W 18 5.5s,5.2
MOS I 21 15 36 11.8–1.5 34.09S 72.00W 33 4.8b,5.2
ISCJB I 21 15 36 11.5–.78 34.06S–.04 72.11W–.05 33–6 4.8b,4.4s
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c44; s53,c70;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.54±.21 $M_{\theta\theta}$0.01±.13; $M_{\phi\phi}$-2.55±.15; $M_{r\theta}$-0.66±.22; $M_{\theta\phi}$0.07±.09; $M_{\phi r}$-2.24±.27; Best double couple: NP1:ϕ_s190.00000°,δ66.00000°,λ99.00000°. NP2:ϕ_s347.00000°,δ25.00000°,λ69.00000°. Principal axes: T 3.5030,Plg67.0000°,Azm118.0000°; N -0.1020,Plg9.0000°,Azm6.0000°; P -3.4040,Plg21.0000°,Azm273.0000° $M_0$3.45300×10^{16}
NEIC Event type fe. Felt [V] at Navidad; [IV] at Longavi, Pichilemu and San Clemente; [III] at Constitucion, Empedrado, La Estrella, Marchihue, Rio Claro and Talca; [II] at Cauquenes, Chanco, Iloca, Paredones, Rancagua, San Antonio, San Fernando, Santa Cruz, Santiago and Vina del Mar. Also felt at Valparaiso. After GUC.
ISCJB Event type fe.
ISC I 21 18 46 45.0–1.7 33.75S–.05 72.11W–.06 16–10 4.0b,3.4s 33 1-157
ISCJB I 21 18 46 44.7–1.1 33.76S–.05 72.17W–.06 26–9 4.0b,3.4s **¶16152032**
GUC I 21 18 46 46.6–.63 33.82S 72.08W 36–5 4.2L,3.4s
NEIC I 21 18 46 47.8–2.4 33.74S 71.98W 34–17 4.4b,4.2L
IDC I 21 18 46 48.1–5.1 33.77S 71.94W 35–39 4.0L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.4km az=41.2.
GUC Error ellipse: s-maj=3.1km s-min=5.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=6.4km az=89.0. Felt [IV] at Navidad and [II] at La Estrella, Marchihue, Pichilemu, Rancagua, San Antonio, Villa Alemana and Vina del Mar.
IDC Error ellipse: s-maj=40.3km s-min=27.2km az=98.0.
GUC I 21 21 27 45.7–.69 34.78S 73.47W 36–4 3.5L
¶601516271
GUC Error ellipse: s-maj=4.3km s-min=8.1km az=-1.0.
ISC I 22 01 19 29.9–2.0 33.80S–.04 72.44W–.08 6–12 4.0b 28 1-157
ISCJB I 22 01 19 27.8–1.3 33.81S–.04 72.60W–.05 4–8 3.7b **¶17190708**
IDC I 22 01 19 29.3–1.4 33.80S 72.29W 0 3.9,3.8L
GUC I 22 01 19 31.0–.60 33.86S 72.40W 15–7 3.8L,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.8km az=179.7.
IDC Error ellipse: s-maj=44.9km s-min=24.3km az=90.0.
GUC Error ellipse: s-maj=1.8km s-min=5.1km az=-1.0.
ISC I 22 23 57 24.0–1.5 33.32S–.04 72.34W–.06 26–11 4.1b 39 1-156
IDC I 22 23 57 21.0–1.6 33.26S 72.31W 0 4.0,3.9L **¶16152130**
ISCJB I 22 23 57 23.1–1.2 33.27S–.03 72.51W–.05 32–9 4.0b,3.9L
NEIC I 22 23 57 23.0 33.34S 72.35W 25 4.1L,4.1b
GUC I 22 23 57 23.4–.64 33.34S 72.35W 25–5 4.1L,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=40.5km s-min=30.9km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.6km az=148.3.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.3km s-min=2.9km az=-1.0.
ISC I 24 09 49 16.6–1.0 35.84S–.05 73.1W–.10 28 4.1b 17 0-86
IDC I 24 09 49 13.0–1.5 35.68S 72.90W 0 4.0,4.0b **¶17190882**
ISCJB I 24 09 49 15.5–.87 35.87S–.05 73.26W–.09 28 3.9b,3.4s
GUC I 24 09 49 16.8–.52 35.97S 73.07W 48–6 4.4L,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=49.7km s-min=18.9km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.3km az=3.0.
GUC Error ellipse: s-maj=7.1km s-min=6.1km az=-1.0.
ISC I 25 12 59 34.5–2.3 33.65S–.07 72.0W–.10 29–16 20 1-5
GUC I 25 12 59 28.7–.47 33.41S 72.41W 46–11 3.7L **¶601996250**
ISC Event type ke.
GUC Error ellipse: s-maj=4.3km s-min=11.9km az=-1.0.
ISC I 26 09 30 02.7–1.9 33.90S–.04 72.03W–.09 2–13 25 0-6
ISCJB I 26 09 30 01.2–1.3 33.86S–.04 72.23W–.09 8–10 **¶601516334**
GUC I 26 09 30 03.0–.36 33.89S 72.10W 11–2 3.5L
SJA I 26 09 30 26.4–.95 33.28S 70.63W 33 3.7W,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=7.3km az=5.1.
GUC Error ellipse: s-maj=1.2km s-min=3.4km az=-1.0.
SJA Error ellipse: s-maj=21.4km s-min=11.4km az=-1.0.
GUC I 26 12 07 00.6–.49 39.31S 74.04W 5–4 3.9L
¶601516337
GUC Error ellipse: s-maj=4.0km s-min=10.8km az=-1.0.
ISC I 27 02 23 33.9–1.2 38.1S–.20 75.2W–.20 35 3.9b 10 5-159
IDC I 27 02 23 28.3–1.6 38.12S 75.42W 0 4.1,4.0 **¶17191072**
ISCJB I 27 02 23 32.7–1.1 38.0S–.10 75.3W–.20 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 22 24 09.5–.78 34.52S–.07 73.81W–.08 35 4.1b 22 2-91
IDC I 29 22 24 03.7–1.4 34.59S 74.01W 0 4.2,4.1L **¶16136147**
GUC I 29 22 24 06.5–.55 34.50S 73.83W 17–6 4.2L,4.1L
ISCJB I 29 22 24 07.1–.59 34.56S–.05 73.86W–.06 33 4.1b,4.1L
NEIC I 29 22 24 09.2–.56 34.56S 73.85W 35 4.3b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=57.6km s-min=25.9km az=67.0.
GUC Error ellipse: s-maj=5.8km s-min=4.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.3km az=24.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=8.4km az=66.0.
ISC II 02 11 57 04.0–1.3 34.82S–.06 73.04W–.09 10 24 1-155
ISCJB II 02 11 57 02.8–1.1 34.72S–.07 73.18W–.10 10 3.8b **¶16328634**
NEIC II 02 11 57 02.0 35.08S 73.33W 36 4.3
GUC II 02 11 57 02.1–.31 35.08S 73.33W 36–5 4.3L
IDC II 02 11 57 07.6–3.4 34.77S 71.79W 0 4.0b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=9.8km az=173.6.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.3km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=144.9km s-min=25.4km az=89.0.
GUC II 02 18 48 22.4–.37 37.41S 74.60W 21–2 3.6L
¶601516439
GUC Error ellipse: s-maj=4.5km s-min=4.1km az=-1.0.
GUC II 04 04 17 16.3–.56 34.32S 73.17W 25–7 3.6L
¶601516450
GUC Error ellipse: s-maj=13.2km s-min=9.2km az=-1.0.
ISC II 04 07 14 02.9–2.5 33.16S–.05 72.1W–.10 6–11 29 1-5
GUC II 04 07 14 03.6–.63 33.09S 72.08W 26–5 3.4L **¶601516451**
ISC Event type ke.
GUC Error ellipse: s-maj=2.9km s-min=3.1km az=-1.0.
ISC II 04 07 32 17.8–2.5 33.10S–.05 72.14W–.10 6–13 27 1-6
GUC II 04 07 32 19.4–.69 33.08S 72.20W 26–5 3.8L **¶601516452**
SJA II 04 07 32 27.0–1.1 32.83S 71.55W 10 3.8W,3.7L
ISC Event type ke.
GUC Error ellipse: s-maj=3.0km s-min=3.4km az=-1.0.
SJA Error ellipse: s-maj=16.1km s-min=19.2km az=-1.0.
GUC II 04 08 09 08.5–.69 34.87S 73.76W 22–11 3.5L
¶601516453
GUC Error ellipse: s-maj=4.9km s-min=13.0km az=-1.0.
ISC II 04 13 25 35.8–1.8 33.01S–.05 72.19W–.05 4–11 4.0b 49 1-156
IDC II 04 13 25 35.8–.93 32.97S 72.04W 0 4.3L,4.0 **¶16339708**
GUC II 04 13 25 37.9–.42 33.12S 72.16W 25–6 3.8L,4.0
NEIC II 04 13 25 38.0 33.13S 72.16W 25 3.7L,4.0
SJA II 04 13 25 48.4–1.4 32.74S 71.38W 20 3.7L,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=21.7km az=87.0.
GUC Error ellipse: s-maj=2.0km s-min=1.9km az=-1.0.
NEIC Event type fe. Felt [II] at Quilpue and Vina del Mar. After GUC.
SJA Error ellipse: s-maj=6.1km s-min=14.4km az=-1.0.
ISC II 04 18 44 46.4–.98 33.81S–.05 72.22W–.07 28–6 34 1-154
ISCJB II 04 18 44 42.3–1.9 33.82S–.05 72.42W–.06 10–14 3.6b **¶17191686**
GUC II 04 18 44 43.1–.38 33.79S 72.33W 23–4 3.7L
IDC II 04 18 44 46.7–1.2 33.80S 72.07W 28–6 3.8,3.7
SJA II 04 18 45 09.3–.64 32.92S 70.79W 60 3.8W,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.4km az=41.5.
GUC Error ellipse: s-maj=1.4km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=48.2km s-min=29.7km az=65.0.
SJA Error ellipse: s-maj=7.4km s-min=4.5km az=-1.0.
GUC II 04 23 14 26.3–.37 37.23S 74.31W 25–5 3.5L
¶601516461
GUC Error ellipse: s-maj=4.1km s-min=3.6km az=-1.0.
ISC II 05 02 07 47.0–2.4 33.92S–.04 72.39W–.08 4–13 4.1b 31 1-157
IDC II 05 02 07 46.4–1.4 33.98S 72.24W 0 3.9,3.8 **¶17191708**
ISCJB II 05 02 07 47.5–1.3 33.95S–.05 72.53W–.07 22–10 3.8b,3.0s
GUC II 05 02 07 48.0–.64 33.92S 72.31W 10–12 3.7L,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=46.3km s-min=21.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=8.3km az=12.1.
GUC Error ellipse: s-maj=3.3km s-min=16.9km az=-1.0.
ISC II 05 17 36 41.3–.77 35.46S–.07 73.3W–.10 35 4.4b 32 3-168
IDC II 05 17 36 35.8–1.2 35.63S 73.49W 0 4.1,4.1b **¶16328730**
ISCJB II 05 17 36 39.2–.69 35.53S–.05 73.3W–.10 33 4.4b,4.1b
NEIC II 05 17 36 40.5–4.0 35.59S 73.39W 29–28 4.9b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=37.9km s-min=20.3km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=7.5km az=10.6.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=9.0km az=91.0.

ISC II 06 15 19 22.3–.87 35.6S–.10 73.1W–.10 17 4.0b 22 3-168
IDC II 06 15 19 19.4–.89 35.65S 72.97W 0 4.2,4.2 **¶17191797**
ISCJB II 06 15 19 21.1–.72 35.62S–.08 73.1W–.10 17 4.1s,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 15 54 06.3–1.2 37.63S–.06 74.0W–.10 35 3.7b,3.5s 18 1-160
ISCJB II 07 15 54 02.8–1.1 37.63S–.05 74.2W–.10 33 3.8b,3.6s **¶16026100**
GUC II 07 15 54 02.3–.30 37.67S 74.09W 34–1 4.3L,3.6s
IDC II 07 15 54 06.8–1.5 37.39S 72.79W 0 4.0,3.9L
NEIC II 07 15 54 07.2–6.3 37.46S 73.60W 27–40 4.6b,4.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=6.4km az=8.3.
GUC Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=48.0km s-min=19.4km az=68.0.
NEIC Event type fe. Error ellipse: s-maj=44.6km s-min=15.5km az=76.0. Felt [III] at Concepcion, Lebu and Tirua; [II] at Angol, Coronel, Puren, San Pedro de la Paz and Talcahuano.
ISC II 08 16 54 23.1–3.5 31.18S–.04 72.3W–.10 10–24 21 2-4
GUC II 08 16 54 26.9–.44 31.19S 72.13W 65–19 3.7L **¶601516504**
ISC Event type ke.
GUC Error ellipse: s-maj=1.0km s-min=7.3km az=-1.0.
ISC II 08 21 59 11.8–1.2 35.31S–.08 74.2W–.10 35 4.2b 16 5-159
IDC II 08 21 59 06.8–1.6 35.30S 74.05W 0 4.1,4.0 **¶17191914**
ISCJB II 08 21 59 09.6–1.0 35.33S–.06 74.2W–.10 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 09 11 16 15.7–1.5 37.63S–.07 74.4W–.10 10 21 1-46
ISCJB II 09 11 16 14.2–1.2 37.59S–.05 74.4W–.10 10 4.5b **¶16160380**
GUC II 09 11 16 22.1–.57 37.30S 74.18W 38–3 4.1L
NEIC II 09 11 16 22.0 37.30S 74.18W 38 4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.2km s-min=6.7km az=166.7.
GUC Error ellipse: s-maj=4.5km s-min=5.9km az=-1.0.
NEIC Event type fe. Felt [III] at Lebu and Tirua and [II] at Arauco, Coronel, La Laja and Talcahuano. After GUC.
ISC II 11 21 10 11.5–.80 37.2S–.10 74.8W–.10 35 4.2b 25 5-102
IDC II 11 21 10 06.2–1.1 37.22S 74.82W 0 4.3,4.1 **¶16269110**
ISCJB II 11 21 10 09.8–.56 37.22S–.09 74.7W–.10 33 4.3b,4.1
NEIC II 11 21 10 11.6–.35 37.23S 74.74W 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=38.7km s-min=22.6km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=10.5km az=144.5.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.8km az=54.0.
IDC II 12 00 40 39.0–2.2 37.29S 74.01W 0 3.8,3.6
¶17192096
IDC Error ellipse: s-maj=71.5km s-min=21.2km az=61.0.
GUC II 12 12 30 31.1–.63 35.81S 73.12W 17–5 4.1L
¶601516557
GUC Error ellipse: s-maj=2.8km s-min=5.5km az=-1.0.
GUC II 13 14 53 14.1–.46 37.61S 74.04W 21–8 3.6L
¶601516585
GUC Error ellipse: s-maj=4.7km s-min=7.2km az=-1.0.
ISC II 13 23 58 13.7–.59 35.63S–.05 73.32W–.10 35 4.2b,3.8s 42 1-156
IDC II 13 23 58 09.6–1.4 35.47S 73.21W 0 4.1,4.0 **¶16339733**
ISCJB II 13 23 58 12.2–.46 35.58S–.03 73.32W–.08 33 4.2b,3.8s
NEIC II 13 23 58 12.0 35.65S 73.23W 60 4.0b,3.8s
GUC II 13 23 58 12.8–.50 35.65S 73.23W 60–16 4.1L,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=38.3km s-min=24.7km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.0km az=173.9.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=5.9km s-min=21.1km az=-1.0.
ISC II 14 03 40 09.3–.17 35.49S–.03 73.10W–.03 17 6.6s,5.8b 1469 1-178
GUC II 14 03 40 01.2–.56 35.46S 73.74W 22–7 6.3W,5.9L **¶602035966**
IDC II 14 03 40 06.3–.34 35.38S 72.80W 0 6.5,6.5s
ISCJB II 14 03 40 07.0–.13 35.42S–.02 73.07W–.03 17 6.6s,5.8b
NEIC II 14 03 40 09.9–.12 35.38S 72.83W 21 6.7W,6.7
GCMT II 14 03 40 09.9–.00 35.67S 73.61W 12 6.6W,6.7
BJI II 14 03 40 11.6 35.40S 73.10W 30 6.7,6.7s
NEIC II 14 03 40 11.0–.00 35.43S 73.14W 25 6.7,6.7s
MOS II 14 03 40 12.1–1.4 35.04S 73.07W 33 6.6s,6.0b
NEIC II 14 03 40 24.7–.00 35.68S 72.67W 10 6.6s,6.0b
ISC Event type fe.
GUC Error ellipse: s-maj=1.5km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=9.5km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=176.6.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=78.0. Felt [V] at Cauquenes, Chillan, Cobquecura, Concepcion, Longavi, Parral, Penco, Retiro, Talcahuano and Tome; [IV] at Chanco, Constitucion, Romeral and San Pedro de la Paz; [II] as far as Quillota and Valdivia. Felt in much of central Chile. Also felt at Mendoza, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.30000×10^{19} Moment Tensor Solution. s71 Moment tensor: Scale 10^{18} Nm; M_{rr}3.09 $M_{\theta\theta}$0.37 $M_{\phi\phi}$-3.45 $M_{r\theta}$-0.40 $M_{\theta\phi}$-4.02 $M_{\phi r}$-4.65 Best double couple: NP1: ϕ_s185.00000°,δ73.00000°,λ59.00000°. NP2:ϕ_s68.00000°,δ35.00000°,λ149.00000°. Principal axes: T 6.0100,Plg52.0000°,Azm59.0000°; N 1.6600,Plg29.0000°,Azm195.0000° ; P -7.6600,Plg22.0000°,Azm298.0000° $M_0$7.00000×10^{18}
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c290; s124,c560;Duration: 5^{s}1 Moment tensor: Scale 10^{19} Nm; M_{rr}0.56±.00 $M_{\theta\theta}$-0.02±.00; $M_{\phi\phi}$-0.53±.00; $M_{r\theta}$-0.13±.01; $M_{\theta\phi}$-0.17±.00; $M_{\phi r}$-0.91±.01; Best double couple: NP1:ϕ_s189.00000°,δ74.00000°,λ86.00000°. NP2:ϕ_s25.00000° ,δ17.00000°,λ105.00000°. Principal axes: T 1.0700,Plg61.0000°,Azm93.0000° ; N 0.0190,Plg4.0000°,Azm191.0000°; P -1.0890,Plg29.0000°,Azm283.0000° $M_0$1.08000×10^{19}
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{19}Nm; M_{rr}0.52 $M_{\theta\theta}$0.06 $M_{\phi\phi}$-0.58 $M_{r\theta}$-0.26 $M_{\theta\phi}$-0.25 $M_{\phi r}$-1.36 Best double couple: NP1:ϕ_s191.00000° ,δ79.00000°,λ86.00000°. NP2:ϕ_s32.00000°,δ12.00000°,λ110.00000°. Principal axes: T 1.4500,Plg56.0000°,Azm95.0000°; N 0.1300,Plg4.0000°,Azm191.0000° ; P -1.5800,Plg33.0000°,Azm284.0000° $M_0$1.50000×10^{19}
MOS Error ellipse: s-maj=14.6km s-min=7.1km az=97.1.
NEIC Event type se. Moment Tensor Solution. s132 Moment tensor: Scale 10^{18}Nm; M_{rr}5.67 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-5.54 $M_{r\theta}$-1.11 $M_{\theta\phi}$-1.35 $M_{\phi r}$-6.57 Best double couple: NP1:ϕ_s190.00000° ,δ70.00000°,λ88.00000°. NP2:ϕ_s16.00000°,δ21.00000°,λ95.00000°. Principal axes: T 8.7200,Plg65.0000°,Azm97.0000°; N 0.1800,Plg2.0000°,Azm191.0000° ; P -8.9000,Plg25.0000°,Azm282.0000° $M_0$8.80000×10^{18}
ISC II 14 03 45 12.8–.39 35.58S–.06 73.1W–.10 17 5.0b 279 6-168
IDC II 14 03 45 10.0–.48 35.70S 73.26W 0 5.0,4.9 **¶16136345**
ISCJB II 14 03 45 12.2–.29 35.40S–.05 73.07W–.07 17 5.0b,4.9
NEIC II 14 03 45 15.8–1.2 35.63S 73.25W 39–10 5.0b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=13.5km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=7.3km az=154.7.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=6.5km az=73.0.
IDC II 14 03 51 25.5–1.8 35.96S 73.93W 0 4.0,3.8
¶17192216
IDC Error ellipse: s-maj=60.7km s-min=21.3km az=66.0.
ISC II 14 04 37 05.3–1.0 37.16S–.08 74.03W–.08 10 3.9b 16 1-145
IDC II 14 04 37 03.6–1.9 37.36S 74.10W 0 4.0,3.8 **¶16136346**
ISCJB II 14 04 37 04.1–.94 37.27S–.08 74.00W–.09 10 3.8b,3.8
GUC II 14 04 37 05.3–.37 37.16S 74.08W 6–2 4.4L,3.8
NEIC II 14 04 37 05.0 37.16S 74.08W 6 4.4L,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=51.6km s-min=20.1km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=8.4km az=136.8.
GUC Error ellipse: s-maj=3.9km s-min=3.1km az=-1.0.
NEIC Event type fe. Felt [IV] at Coronel; [III] Arauco, Chiguayante, Concepcion, Contulmo, Curanilahue, Penco and Talcahuano; [II] at Puerto Saavedra and Tome. After GUC.
ISC II 14 10 21 23.1–.34 35.42S–.04 73.18W–.05 10 5.0b,4.7s 203 1-175
GUC II 14 10 21 19.3–.38 35.40S 73.45W 20–4 5.1L,4.7s **¶16026120**
IDC II 14 10 21 21.3–.78 35.36S 72.91W 0 4.6,4.6s
ISCJB II 14 10 21 21.9–.19 35.37S–.03 73.15W–.04 10 4.9b,4.7s
BJI II 14 10 21 26.5 35.40S 73.10W 10 5.7s,5.6
GCMT II 14 10 21 27.3–.30 35.60S 73.41W 15–1 5.2W,5.6
NEIC II 14 10 21 27.3–2.4 35.32S 72.88W 34–16 5.1L,5.0b
ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=20.4km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=162.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c45; s83,c106; Duration: 1^{s}0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.52±.29 $M_{\theta\theta}$-0.25±.15; $M_{\phi\phi}$-4.27±.20; $M_{r\theta}$0.81±.33; $M_{\theta\phi}$-0.37±.12; $M_{\phi r}$-6.55±.67; Best double couple: NP1:ϕ_s175.00000°,δ73.00000° ,λ85.00000°. NP2:ϕ_s13.00000°,δ18.00000°,λ107.00000°. Principal axes: T 8.1070,Plg61.0000°,Azm77.0000°; N -0.3450,Plg5.0000°,Azm177.0000° ; P -7.7630,Plg28.0000°,Azm270.0000° $M_0$7.93500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.1km az=65.0. Felt [III] at Concepcion and Penco.
GUC II 14 11 52 14.9–.58 35.64S 73.38W 38–12 3.9L
¶601516590
GUC Error ellipse: s-maj=4.3km s-min=5.8km az=-1.0.
ISC II 14 12 20 01.2–.87 35.3S–.20 73.1W–.20 17 4.7b,4.6s 21 19-167
IDC II 14 12 19 58.5–1.3 35.42S 73.10W 0 4.6s,4.6 **¶16398178**
ISCJB II 14 12 19 59.7–.84 35.3S–.20 73.1W–.20 17 4.6b,4.6s
NEIC II 14 12 20 03.8–.55 35.30S 73.12W 35 4.6b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=49.7km s-min=29.6km az=40.0.
ISCJB Event type se. Error ellipse: s-maj=30.1km s-min=17.6km az=145.5.
NEIC Event type se. Error ellipse: s-maj=25.3km s-min=14.1km az=63.0.
ISC II 14 12 52 00.3–.91 35.55S–.05 73.21W–.09 17 4.0b 17 1-158
IDC II 14 12 51 58.7–1.3 35.43S 73.01W 0 3.9,3.8 **¶17192241**
GUC II 14 12 52 01.6–.38 35.69S 73.40W 22–6 3.7L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=45.1km s-min=20.5km az=77.0.
GUC Error ellipse: s-maj=4.6km s-min=3.9km az=-1.0.
ISC II 14 14 21 17.6–.98 35.46S–.08 73.1W–.20 17 4.0b 15 1-168
IDC II 14 14 21 16.2–1.5 35.34S 72.79W 0 3.9,3.9b **¶17192243**
GUC II 14 14 21 20.0–.51 35.68S 73.33W 27–14 3.9L,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=50.6km s-min=19.8km az=78.0.
GUC Error ellipse: s-maj=4.3km s-min=9.7km az=-1.0.
ISC II 15 02 43 03.4–1.2 35.7S–.10 73.3W–.20 10 3.8b,3.6s 15 5-86
ISCJB II 15 02 43 01.4–1.2 35.71S–.09 73.4W–.20 10 3.8b,3.7s **¶17192281**
IDC II 15 02 43 01.8–1.9 35.67S 73.26W 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=11.3km az=17.4.
IDC Error ellipse: s-maj=47.5km s-min=22.0km az=77.0.
ISC II 15 21 05 32.2–1.1 35.41S–.10 73.1W–.20 10 4.1b 23 3-168
ISCJB II 15 21 05 30.3–1.0 35.43S–.07 73.2W–.20 10 4.0b,3.9s **¶17192323**
IDC II 15 21 05 31.0–1.3 35.41S 72.90W 0 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=9.0km az=10.1.
IDC Error ellipse: s-maj=39.4km s-min=26.3km az=82.0.
ISC II 15 22 49 07.7–2.8 34.40S–.07 73.7W–.20 35 14 1-5
SJA II 15 22 49 03.5–.72 35.66S 72.19W 51–15 2.7L **¶601516603**
GUC II 15 22 49 09.2–.48 34.40S 73.46W 38–3 3.7L
ISC Event type ke.
SJA Error ellipse: s-maj=2.2km s-min=26.1km az=-1.0.
GUC Error ellipse: s-maj=2.7km s-min=6.0km az=-1.0.
ISC II 16 15 58 34.3–.87 33.98S–.06 72.09W–.09 19 4.1b,3.6s 18 0-157
IDC II 16 15 58 31.8–1.4 33.95S 71.88W 0 4.0,4.0 **¶17192375**
ISCJB II 16 15 58 32.3–.88 34.00S–.05 72.33W–.08 19 4.0b,3.7s
GUC II 16 15 58 34.7–.35 34.07S 72.06W 26–8 3.7L,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=48.3km s-min=21.1km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.9km az=23.4.
GUC Error ellipse: s-maj=3.9km s-min=4.3km az=-1.0.
ISC II 16 18 09 30.1–.51 33.96S–.04 72.37W–.07 17 4.8b 55 1-166
IDC II 16 18 09 27.4–.62 33.94S 72.32W 0 4.6,4.5 **¶16339752**
ISCJB II 16 18 09 28.1–.47 33.95S–.03 72.60W–.06 17 4.8b,3.7s
GUC II 16 18 09 28.2–.38 33.93S 72.46W 10 4.8L,3.7s
NEIC II 16 18 09 32.1–2.8 33.90S 72.33W 30–19 4.8L,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=25.5km s-min=16.8km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=7.2.
GUC Error ellipse: s-maj=1.3km s-min=4.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.1km s-min=7.4km az=89.0. Felt [III] at Navidad and Pichilemu and [II] at Quillota and Valparaiso.
GUC II 17 04 07 15.4–.42 37.23S 74.19W 21–7 3.8L
¶601516613
GUC Error ellipse: s-maj=4.5km s-min=4.0km az=-1.0.
ISC II 17 05 23 02.6–3.0 35.85S–.04 73.4W–.10 5–21 21 1-6
ISCJB II 17 05 23 01.7–1.6 35.82S–.04 73.48W–.09 4–9 **¶601516614**
GUC II 17 05 23 04.0–.46 35.84S 73.40W 19–3 4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=6.4km az=178.7.
GUC Error ellipse: s-maj=0.9km s-min=2.8km az=-1.0.
ISC II 17 10 50 55.2–4.0 33.95S–.06 72.3W–.10 13–23 20 1-157
ISCJB II 17 10 50 52.4–1.6 33.92S–.06 72.50W–.07 6–10 3.9b **¶17192413**
IDC II 17 10 50 53.1–1.2 34.00S 72.21W 0 4.0,3.9L
GUC II 17 10 50 55.2–.38 33.95S 72.25W 10–3 4.1L,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=9.4km az=163.0.
IDC Error ellipse: s-maj=48.1km s-min=22.7km az=82.0.
GUC Error ellipse: s-maj=1.1km s-min=3.8km az=-1.0.
ISC II 17 12 04 42.7–1.6 33.94S–.04 72.40W–.06 16–9 4.4b 46 1-166
NEIC II 17 12 04 38.0 33.73S 72.62W 15 4.4L **¶16398406**
GUC II 17 12 04 39.2–.46 33.74S 72.62W 18–3 4.4L
IDC II 17 12 04 40.1–.71 33.99S 72.35W 0 4.2,4.0
ISC Event type fe.
NEIC Event type fe. Felt [II] at Cobquecura, Quirihue and Talca. After GUC.
GUC Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=30.1km s-min=18.7km az=84.0.
ISC II 18 01 46 54.6–1.8 33.81S–.07 72.21W–.06 11–12 4.3b,3.8s 51 1-157
IDC II 18 01 46 53.2–.95 33.80S 72.03W 0 4.2,4.1 **¶16305018**
ISCJB II 18 01 46 54.1–1.3 33.83S–.04 72.26W–.07 15–9 4.3b,3.8s
NEIC II 18 01 46 54.6–3.6 33.82S 71.96W 10–22 4.4L,4.4b
GUC II 18 01 46 55.2–.49 33.87S 72.18W 35–9 4.4L,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=26.7km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.0km az=30.5.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.4km az=85.0.
GUC Error ellipse: s-maj=3.2km s-min=3.9km az=-1.0.
ISC II 18 01 51 30.8–2.4 33.82S–.06 72.1W–.10 9–17 14 1-4
GUC II 18 01 51 30.6–.56 33.86S 72.16W 32–10 3.8L **¶601516620**
ISC Event type ke.
GUC Error ellipse: s-maj=3.7km s-min=6.1km az=-1.0.
ISC II 18 06 54 40.5–3.0 37.0S–.10 74.1W–.20 35 16 1-10
GUC II 18 06 54 37.5–.74 36.93S 74.08W 15–8 4.1L **¶601516625**
ISC Event type ke.
GUC Error ellipse: s-maj=8.3km s-min=5.5km az=-1.0.
ISC II 18 17 01 01.8–.72 33.99S–.03 72.12W–.05 31–4 5.2b,4.9s 461 0-179
IDC II 18 17 00 57.0–.44 33.97S 72.09W 0 5.0,4.9b **¶16168873**
NEIC II 18 17 00 58.7–.18 33.93S 72.11W 10 5.2L,5.2b
GCMT II 18 17 00 58.7–.20 33.99S 72.37W 27–0 5.3W,5.2b
ISCJB II 18 17 00 59.7–.86 34.02S–.03 72.27W–.04 24–6 5.1b,4.8s
GUC II 18 17 00 59.3–.44 33.99S 72.15W 13–6 5.2L,4.8s
MOS II 18 17 01 02.7–1.1 33.95S 71.88W 39 5.4b,4.8s
BJI II 18 17 01 02.3 34.55S 71.77W 39 5.4s,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=21.5km s-min=13.4km az=80.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=4.3km az=77.0. Felt [IV] at Navidad; [III] at Litueche, Parral, Rio Claro, San Antonio and Santo Domingo; [II] at Constitucion, El Quisco, Marchihue, Paredones, Pichilemu, Puchuncavi, Rancagua, San Fernando, Santiago, Talca, Valparaiso and Vina del Mar. Also felt at Rengo and San Bernardo.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c84; s78,c115; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.58±.02 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$-0.60±.02; $M_{r\theta}$0.05±.02; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$-0.74±.04; Best double couple: NP1:ϕ_s178.00000°,δ71.00000° ,λ85.00000°. NP2:ϕ_s14.00000°,δ20.00000°,λ105.00000°. Principal axes: T 0.9400,Plg64.0000°,Azm79.0000°; N 0.0220,Plg5.0000°,Azm180.0000° ; P -0.9620,Plg26.0000°,Azm272.0000° $M_0$0.95100×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.8km az=0.3.
GUC Error ellipse: s-maj=1.3km s-min=6.1km az=-1.0.
MOS Error ellipse: s-maj=17.1km s-min=9.4km az=89.4.

ISC	**II**	**19 09 54 51.6–2.1**	**33.98S–.04**	**72.22W–.09**	**8–12**		**25**	**0-142**	
ISCJB	II	19 09 54 52.5–1.3	34.06S–.06	72.34W–.08	13–10	3.7b			¶16166735
GUC	II	19 09 54 53.8–.49	34.05S	72.08W	10–6	4.0L			
NEIC	II	19 09 54 53.0	34.04S	72.08W	10	4.0L,3.7b			

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.8km az=145.3.
GUC Error ellipse: s-maj=1.5km s-min=7.0km az=-1.0.
NEIC Event type fe. Felt [III] at Talca and [II] at Pichilemu, Rancagua and San Fernando. After GUC.

ISC	**II**	**19 11 57 53.6–1.7**	**33.40S–.05**	**72.40W–.07**	**0–12**		**40**	**1-157**	
IDC	II	19 11 57 55.9–1.4	33.49S	71.62W	0	3.9,3.9L			¶16398545
GUC	II	19 11 57 56.2–.37	33.52S	72.35W	34–2	3.9L,3.9L			
NEIC	II	19 11 57 56.0	33.52S	72.35W	34	3.9L,3.9L			

ISC Event type fe.
IDC Error ellipse: s-maj=49.0km s-min=30.2km az=87.0.
GUC Error ellipse: s-maj=1.5km s-min=2.2km az=-1.0.
NEIC Event type fe. Felt [II] at Concon, Quilpue, Valparaiso, Villa Alemana and Vina del Mar. After GUC.

ISC	**II**	**19 14 04 33.6–.99**	**35.77S–.05**	**73.22W–.10**	**10**	**3.7b**	**18**	**1-156**	
ISCJB	II	19 14 04 32.7–.81	35.69S–.04	73.3W–.10	10	3.7b			¶17192537
IDC	II	19 14 04 32.4–1.7	35.77S	73.32W	0	3.9s,3.8			
GUC	II	19 14 04 33.9–.35	35.77S	73.22W	16–3	3.7L,3.8			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=4.8km az=170.2.
IDC Error ellipse: s-maj=52.3km s-min=20.9km az=75.0.
GUC Error ellipse: s-maj=2.3km s-min=2.3km az=-1.0.

ISC	**II**	**19 14 15 09.8–.71**	**35.72S–.07**	**73.2W–.10**	**17**	**4.1b,3.3s**	**19**	**1-159**	
IDC	II	19 14 15 07.5–1.2	35.68S	73.18W	0	4.1,4.0			¶16398552
ISCJB	II	19 14 15 08.5–.62	35.68S–.05	73.3W–.10	17	4.2b,3.4s			
GUC	II	19 14 15 10.3–.51	35.78S	73.17W	19–3	3.6L,3.4s			
NEIC	II	19 14 15 11.9–.81	35.63S	72.98W	30	4.3b,3.4s			

ISC Event type se.
IDC Error ellipse: s-maj=40.6km s-min=25.6km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=5.6km az=158.4.
GUC Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=33.2km s-min=12.9km az=88.0.

ISC	**II**	**19 16 16 39.0–1.9**	**33.99S–.05**	**72.23W–.09**	**13–13**		**24**	**0-4**	
GUC	II	19 16 16 41.3–.38	33.99S	72.23W	22–4	3.5L			¶601516636

ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.

ISC	**II**	**23 19 22 11.1–1.7**	**34.0S–.10**	**73.2W–.10**	**35**		**9**	**1-120**	
ISCJB	II	23 19 22 10.7–2.0	33.95S–.09	73.1W–.10	33	3.6b			¶17192755
GUC	II	23 19 22 18.2–.38	33.96S	72.50W	32–4	3.1L			
IDC	II	23 19 22 27.6–5.0	35.07S	72.36W	165–50	3.6,3.4			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=12.3km az=33.2.
GUC Error ellipse: s-maj=1.9km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=61.1km s-min=43.8km az=39.0.

ISC	**II**	**26 20 17 42.0–1.6**	**33.63S–.04**	**72.16W–.06**	**6–10**	**4.3b**	**41**	**1-157**	
IDC	II	26 20 17 42.8–2.2	33.56S	71.63W	0	4.2b,3.9			¶16399011
NEIC	II	26 20 17 44.0–3.8	33.59S	71.99W	14–23	4.2b,3.9			
GUC	II	26 20 17 45.2–.60	33.71S	71.94W	13–13	3.8L,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=90.8km s-min=34.7km az=93.0.
NEIC Event type se. Error ellipse: s-maj=26.4km s-min=8.1km az=83.0.
GUC Error ellipse: s-maj=6.2km s-min=11.6km az=-1.0.

IDC	**III**	**03 07 53 01.4–3.3**	**37.91S**	**75.22W**	**0**	**3.9,3.7L**			
									¶17193178

IDC Error ellipse: s-maj=168.0km s-min=28.9km az=46.0.

ISC	**III**	**04 05 17 28.3–1.2**	**34.7S–.10**	**73.7W–.10**	**35**	**3.6b**	**19**	**2-158**	
IDC	III	04 05 17 23.0–1.5	34.71S	73.74W	0	4.0,3.8L			¶16484337
ISCJB	III	04 05 17 26.7–.88	34.86S–.08	73.53W–.08	33	3.5b,3.8L			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**04 09 07 59.0–1.6**	**34.95S–.06**	**73.2W–.10**	**10**		**15**	**3-85**	
IDC	III	04 09 08 01.9–4.4	35.09S	71.70W	0	3.9,3.8			¶17193226

ISC Event type ke.
IDC Error ellipse: s-maj=147.5km s-min=21.0km az=91.0.

GUC	**III**	**06 22 13 04.2–.37**	**37.42S**	**74.21W**	**14–5**	**3.6L**			
									¶601516774

GUC Error ellipse: s-maj=4.5km s-min=4.0km az=-1.0.

GUC	**III**	**07 06 15 23.8–.40**	**37.01S**	**74.02W**	**38–2**	**3.5L**			
									¶601516777

GUC Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.

GUC	**III**	**08 09 15 45.7–.51**	**35.76S**	**73.57W**	**23–7**	**3.5L**			
									¶601516789

GUC Error ellipse: s-maj=5.1km s-min=3.9km az=-1.0.

GUC	**III**	**09 03 53 37.6–.60**	**34.57S**	**73.82W**	**17–7**	**3.6L**			
									¶601516805

GUC Error ellipse: s-maj=11.1km s-min=6.7km az=-1.0.

ISC	**III**	**13 21 34 24.6–1.6**	**35.2S–.20**	**74.3W–.40**	**35**	**4.2b**	**6**	**6-86**	
IDC	III	13 21 34 19.4–1.7	35.18S	74.27W	0	4.1b,4.0			¶17194988
ISCJB	III	13 21 34 23.2–1.6	35.0S–.10	74.3W–.40	33	4.0b,4.0			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**17 09 54 15.4–1.2**	**34.65S–.08**	**73.6W–.10**	**35**		**18**	**3-158**	
IDC	III	17 09 54 09.4–1.6	34.74S	73.95W	0	4.0,3.8b			¶16478843
ISCJB	III	17 09 54 12.8–1.1	34.68S–.06	73.6W–.10	33	3.7b,3.8b			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**19 06 26 14.6–1.6**	**33.98S–.05**	**72.9W–.10**	**35**		**45**	**1-85**	
IDC	III	19 06 26 14.2–1.4	33.73S	72.00W	0	3.9,3.7			¶16479358
GUC	III	19 06 26 16.1–.39	33.75S	72.24W	38–2	4.3L,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=49.3km s-min=21.9km az=85.0.
GUC Error ellipse: s-maj=1.2km s-min=2.4km az=-1.0.

ISC	**III**	**19 10 57 22.7–1.5**	**33.69S–.04**	**72.10W–.06**	**8–9**	**4.2b**	**47**	**1-154**	
SJA	III	19 10 57 21.6–.94	33.51S	72.51W	10	4.0L,3.2W			¶16479423
IDC	III	19 10 57 21.9–1.1	33.65S	71.91W	0	4.1,4.0			
NEIC	III	19 10 57 25.0	33.81S	71.90W	16	4.4b,4.0L			
GUC	III	19 10 57 25.7–.66	33.81S	71.90W	16–7	4.0L,4.0L			

ISC Event type fe.
SJA Error ellipse: s-maj=10.4km s-min=7.5km az=-1.0.
IDC Error ellipse: s-maj=35.2km s-min=25.0km az=102.0.
NEIC Event type fe. Felt [II] at El Quisco and San Antonio. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=4.7km az=-1.0.

ISC	**III**	**23 08 51 02.5–2.3**	**33.90S–.05**	**73.27W–.08**	**4–13**	**4.0b**	**41**	**1-85**	
IDC	III	23 08 51 01.4–1.7	33.97S	73.47W	0	4.1,4.1L			¶16480400
ISCJB	III	23 08 51 02.4–1.3	33.91S–.04	73.35W–.06	15–10	3.8b,4.1L			
GUC	III	23 08 51 05.4–.74	33.98S	73.23W	34–5	3.6L,4.1L			

ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=29.8km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.2km az=173.9.
GUC Error ellipse: s-maj=4.3km s-min=6.8km az=-1.0.

GUC	**III**	**25 04 21 02.9–.49**	**38.09S**	**74.86W**	**18–11**	**3.9L**			
									¶601516952

GUC Error ellipse: s-maj=2.3km s-min=12.9km az=-1.0.

ISC	**III**	**28 19 58 55.6–1.9**	**33.83S–.04**	**72.08W–.08**	**10–11**	**4.5b,3.9s**	**44**	**1-157**	
GUC	III	28 19 58 57.0–.68	33.84S	72.08W	33–6	4.4L,3.9s			¶16475558
ISCJB	III	28 19 58 57.0–1.1	33.84S–.03	72.17W–.07	27–7	4.2b,4.0s			
NEIC	III	28 19 59 00.0–1.5	33.83S	71.87W	38–13	4.5b,4.0s			
IDC	III	28 19 59 00.6–2.9	33.80S	71.84W	42–26	4.4L,4.2			

ISC Event type se.
GUC Error ellipse: s-maj=2.6km s-min=5.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=4.9km az=16.4.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=10.0km az=97.0.
IDC Error ellipse: s-maj=31.6km s-min=18.1km az=92.0.

ISC	**III**	**28 23 57 50.9–.54**	**33.82S–.03**	**72.02W–.04**	**17–2**	**5.1b,4.5s**	**760**	**1-176**	
NEIC	III	28 23 57 47.5	33.83S	72.04W	12	5.1b,4.7L			¶16375928
GCMT	III	28 23 57 47.5–.30	33.69S	72.36W	33–0	5.1W,4.7L			
IDC	III	28 23 57 48.2–.43	33.71S	71.98W	0	5.0,4.8L			
ISCJB	III	28 23 57 52.0–.13	33.79S–.02	72.13W–.03	33	5.0b,4.6s			
MOS	III	28 23 57 52.7–.96	33.78S	72.13W	33	5.3b,4.6s			
GUC	III	28 23 57 52.7–.44	33.83S	72.04W	12–6	4.7L,4.6s			

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Navidad, Pichilemu, San Antonio and Santo Domingo; [III] at Casablanca, El Quisco, Maule, Talca, Valparaiso and Vina del Mar; [II] at San Clemente, Santiago and Tiltil. Also felt at Curico. After GUC.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c56; s52,c70; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.27±.20 $M_{\theta\theta}$0.12±.13; $M_{\phi\phi}$-4.39±.13; $M_{r\theta}$0.32±.15; $M_{\theta\phi}$0.14±.12; $M_{\phi r}$-1.98±.17; Best double couple: NP1:ϕ_s175.00000°,δ57.00000° ,λ86.00000°. NP2:ϕ_s2.00000°,δ33.00000°,λ96.00000°. Principal axes: T 4.7190,Plg77.0000° ,Azm73.0000°; N 0.1150,Plg3.0000°,Azm177.0000°; P -4.8290,Plg12.0000°,Azm268.0000° $M_0$4.77400×10^{16}
IDC Error ellipse: s-maj=19.4km s-min=12.5km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=32.2.
MOS Error ellipse: s-maj=18.9km s-min=7.6km az=102.6.
GUC Error ellipse: s-maj=1.5km s-min=4.0km az=-1.0.

ISC	**III**	**29 01 51 08.4–1.8**	**33.77S–.04**	**72.07W–.07**	**16–10**	**4.2b,3.3s**	**42**	**1-154**	
IDC	III	29 01 51 06.5–1.3	33.76S	71.88W	0	4.4L,4.2			¶16475600
GUC	III	29 01 51 08.5–.66	33.79S	72.06W	24–8	4.2L,4.2			
NEIC	III	29 01 51 08.0	33.79S	72.06W	24	4.2L,4.1b			
ISCJB	III	29 01 51 08.5–.95	33.76S–.03	72.26W–.05	32–7	4.0b,3.3s			

ISC Event type fe.
NEIC Event type fe. Felt [III] at Talca and [II] at El Quisco, Paredones, Pencahue, Pichilemu, San Antonio, Santiago, Santo Domingo, Valparaiso and Vina del Mar. After GUC.
ISCJB Event type fe.

ISC	**III**	**29 02 30 58.4–1.6**	**33.79S–.04**	**72.15W–.07**	**7–10**		**33**	**1-121**	
IDC	III	29 02 30 56.6–1.2	33.79S	71.91W	0	4.1L,3.9			¶16475602
ISCJB	III	29 02 30 59.3–1.1	33.78S–.03	72.20W–.07	25–9	3.8s,3.6b			
NEIC	III	29 02 31 00.0	33.82S	72.10W	23	3.8L,3.6b			
GUC	III	29 02 31 00.1–.54	33.82S	72.10W	23–8	3.8L,3.6b			

ISC Event type fe.
IDC Error ellipse: s-maj=51.7km s-min=30.3km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=11.3.
NEIC Event type fe. Felt [II] at El Quisco, San Antonio and Santo Domingo. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=4.2km az=-1.0.

ISC	**III**	**29 20 58 44.7–2.6**	**33.97S–.06**	**72.3W–.20**	**17**		**18**	**0-6**	
GUC	III	29 20 58 43.1–.64	33.93S	72.36W	8–19	3.5L			¶16631084

ISC Event type ke.
GUC Error ellipse: s-maj=2.4km s-min=21.9km az=-1.0.

ISC	**III**	**30 08 03 18.1–.82**	**34.40S–.08**	**73.7W–.10**	**35**	**4.0b**	**28**	**3-158**	
IDC	III	30 08 03 12.9–1.1	34.42S	73.66W	0	4.2,4.1b			¶16475796
ISCJB	III	30 08 03 15.8–.69	34.49S–.05	73.60W–.08	33	4.1s,4.0b			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**30 09 42 17.9–2.2**	**33.81S–.05**	**72.1W–.10**	**16–13**		**21**	**1-154**	
IDC	III	30 09 42 16.5–2.9	33.86S	71.62W	0	4.2b,4.0			¶16475812
GUC	III	30 09 42 17.4–.34	33.85S	72.08W	14–6	3.8L,4.0			
ISCJB	III	30 09 42 17.5–1.5	33.85S–.04	72.2W–.10	19–9	4.2b,4.0s			

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**01 05 38 07.7–.51**	**39.55S–.06**	**74.97W–.08**	**35**	**4.5b,3.5s**	**54**	**1-175**	
IDC	IV	01 05 38 02.8–.78	39.45S	75.10W	0	4.2,4.0			¶601517001
ISCJB	IV	01 05 38 06.1–.38	39.58S–.05	74.95W–.06	33	4.4b,3.4s			
GUC	IV	01 05 38 06.4–.33	39.21S	71.76W	18–2	3.9L,3.4s			
NEIC	IV	01 05 38 06.3–3.7	39.58S	75.09W	23–26	4.6b,3.4s			

ISC Event type fe.
IDC Error ellipse: s-maj=23.1km s-min=22.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=38.3.
GUC Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=8.5km az=91.0. Felt at Osorno and Valdivia.

ISC	**IV**	**06 13 13 26.0–2.3**	**33.87S–.04**	**72.34W–.09**	**15–13**		**39**	**1-154**	
IDC	IV	06 13 13 22.5–2.6	33.66S	72.82W	0	3.9b,3.9L			¶16525080
NEIC	IV	06 13 13 26.0–1.2	33.76S	72.71W	20–6	4.8b,3.9L			
ISCJB	IV	06 13 13 26.9–1.2	33.89S–.04	72.38W–.08	23–9	4.3b,3.9L			
GUC	IV	06 13 13 27.3–.40	33.86S	72.25W	24–8	3.7L,3.9L			

ISC Event type se.
IDC Error ellipse: s-maj=124.9km s-min=44.5km az=87.0.
NEIC Event type se. Error ellipse: s-maj=22.0km s-min=14.8km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.6km az=10.9.
GUC Error ellipse: s-maj=1.3km s-min=4.5km az=-1.0.

ISC	**IV**	**06 13 18 05.6–1.8**	**33.86S–.04**	**72.17W–.09**	**11–11**	**4.2b**	**35**	**1-154**	
IDC	IV	06 13 18 04.6–2.2	33.87S	71.94W	0	4.1b,3.9			¶16525081
ISCJB	IV	06 13 18 06.6–1.1	33.91S–.04	72.25W–.07	27–8	4.1b,3.2s			
GUC	IV	06 13 18 07.3–.38	33.93S	72.00W	13–7	3.6L,3.2s			
NEIC	IV	06 13 18 08.4–2.5	33.83S	72.13W	28–17	4.4b,3.2s			

ISC Event type se.
IDC Error ellipse: s-maj=88.0km s-min=35.5km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.8km az=12.1.
GUC Error ellipse: s-maj=1.9km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=8.9km az=89.0.

ISC	**IV**	**06 14 51 05.0–1.0**	**33.20S–.06**	**72.39W–.07**	**14**	**4.0b**	**26**	**1-84**	
ISCJB	IV	06 14 51 03.8–.71	33.27S–.05	72.56W–.06	14	4.0b			¶16525083
IDC	IV	06 14 51 03.9–1.8	33.20S	72.34W	0	3.9,3.9L			
GUC	IV	06 14 51 04.4–.40	33.26S	72.52W	25–41	3.7L,3.9L			
NEIC	IV	06 14 51 05.5–.70	33.13S	72.29W	10	4.8b,3.9L			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.6km az=9.3.
IDC Error ellipse: s-maj=65.8km s-min=33.2km az=78.0.
GUC Error ellipse: s-maj=5.9km s-min=11.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=10.2km az=85.0.

ISC	**IV**	**08 01 48 18.4–2.2**	**33.7S–.10**	**72.4W–.20**	**5–17**		**16**	**1-6**	
GUC	IV	08 01 48 18.8–.50	33.64S	72.48W	25–486	2.9L			¶16648335
SJA	IV	08 01 48 34.7–.53	32.74S	71.39W	15–7	3.1W,2.8L			

ISC Event type ke.
GUC Error ellipse: s-maj=32.1km s-min=127.5km az=-1.0.
SJA Error ellipse: s-maj=7.5km s-min=12.5km az=-1.0.

ISC	**IV**	**08 07 58 20.5–1.9**	**29.37S–.05**	**72.2W–.10**	**25**		**19**	**1-6**	
ISCJB	IV	08 07 58 20.1–2.0	29.24S–.07	72.3W–.20	25				¶16648344
GUC	IV	08 07 58 24.8–.73	29.47S	71.69W	65–28	3.5L			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=5.9km az=19.2.
GUC Error ellipse: s-maj=2.7km s-min=15.2km az=-1.0.

GUC	**IV**	**08 20 14 35.3–.31**	**33.49S**	**72.57W**	**15–26**	**3.5L**			
									¶601517062

GUC Error ellipse: s-maj=2.3km s-min=25.0km az=-1.0.

ISC	**IV**	**08 20 52 03.5–1.3**	**38.1S–.20**	**75.5W–.20**	**35**	**3.9b**	**12**	**5-159**	
IDC	IV	08 20 51 58.0–1.4	38.15S	75.44W	0	4.1,3.9			¶17200284
ISCJB	IV	08 20 52 02.3–1.2	38.1S–.20	75.3W–.20	33	3.9b,3.9			

ISC Event type ke.
ISCJB Event type ke.

GUC	**IV**	**11 13 16 58.2–.39**	**37.39S**	**74.17W**	**30–3**	**3.8L**			
									¶16648532

GUC Error ellipse: s-maj=4.4km s-min=5.0km az=-1.0.

ISC	**IV**	**13 04 24 49.3–1.1**	**35.71S–.04**	**73.08W–.08**	**17**	**3.9b**	**29**	**0-159**	
ISCJB	IV	13 04 24 46.9–.86	35.62S–.04	73.29W–.08	17	3.8b,3.6s			¶17200855
GUC	IV	13 04 24 47.4–.61	35.61S	73.28W	24–6	4.7L,3.6s			
IDC	IV	13 04 24 51.1–1.3	35.60S	71.76W	0	3.9,3.7			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.0km az=177.8.
GUC Error ellipse: s-maj=2.6km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=51.8km s-min=18.3km az=86.0.
ISC IV 13 09 41 29.0–1.5 38.24S–.05 74.8W–.10 35 3.7b 26 2-88
ISCJB IV 13 09 41 25.5–1.1 38.21S–.03 74.9W–.10 33 3.8s,3.7b **¶16648673**
GUC IV 13 09 41 27.4–.58 38.28S 74.71W 25–3 4.6L,3.7b
IDC IV 13 09 41 32.7–2.2 37.14S 75.72W 0 4.6L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=4.4km az=2.9.
GUC Error ellipse: s-maj=2.0km s-min=7.1km az=-1.0.
IDC Error ellipse: s-maj=56.2km s-min=31.9km az=52.0.
ISC IV 13 15 14 42.1–1.3 33.80S–.03 72.05W–.04 28–8 5.1b,5.1s 729 1-176
IDC IV 13 15 14 37.9–.37 33.75S 71.87W 0 5.0s,5.0 **¶16505360**
GUC IV 13 15 14 39.3–.66 33.77S 72.21W 31–4 5.4L,5.0
ISCJB IV 13 15 14 40.3–.74 33.79S–.02 72.12W–.03 24–5 5.1b,5.1s
MOS IV 13 15 14 42.1–1.2 33.73S 71.87W 33 5.3s,5.2b
BJI IV 13 15 14 42.4 34.03S 72.58W 39 5.3s,5.2
GCMT IV 13 15 14 43.0–.10 33.78S 72.27W 31–0 5.4W,5.2
NEIC IV 13 15 14 43.0–1.2 33.75S 71.84W 34–8 5.4L,5.1b
ISC Event type fe.
IDC Error ellipse: s-maj=18.5km s-min=12.3km az=90.0.
GUC Error ellipse: s-maj=1.7km s-min=3.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=4.8.
MOS Error ellipse: s-maj=15.3km s-min=7.5km az=100.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c162; s92,c152; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.15±.03 $M_{\theta\theta}$0.12±.02; $M_{\phi\phi}$-1.27±.02; $M_{r\theta}$0.07±.03; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-1.18±.04; Best double couple: NP1:ϕ_s178.00000°,δ67.00000°,λ86.00000°. NP2:ϕ_p9.00000°,δ23.00000°,λ100.00000°. Principal axes: T 1.6360,Plg68.0000°,Azm80.0000°; N 0.1190,Plg4.0000°,Azm180.0000°; P -1.7510,Plg22.0000°,Azm272.0000° $M_0$1.69400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.1km az=71.0. Felt [V] at Pichilemu; [IV] at Graneros, Los Andes, Melipilla, Navidad, Paredones, Penaflor, Puente Alto, Quillota, Rancagua, San Antonio, San Bernardo, San Felipe, Santiago, Santo Domingo, Valparaiso, Villa Alemana and Vina del Mar; [III] at Colina, Constitucion, El Quisco, Machali, Petorca, Puchuncavi, Santa Cruz, Talca and Zapallar.
ISC IV 13 17 54 30.5–1.3 33.7S–.10 73.0W–.10 6 12 2-154
IDC IV 13 17 54 30.8–1.9 33.69S 72.20W 0 3.9b,3.7 **¶16648678**
ISC Event type ke.
IDC Error ellipse: s-maj=95.3km s-min=36.5km az=95.0.
IDC IV 13 17 54 49.5–1.8 33.73S 72.22W 0 4.1b,4.0 ¶17200924
IDC Error ellipse: s-maj=86.9km s-min=35.7km az=96.0.
ISC IV 13 18 02 35.6–.99 33.5S–.10 72.73W–.09 6 24 3-163
ISCJB IV 13 18 02 32.3–1.0 33.53S–.08 72.99W–.08 6 4.0b **¶16587491**
IDC IV 13 18 02 35.6–1.4 33.46S 72.31W 0 4.2L,4.1
NEIC IV 13 18 02 39.0–3.8 33.45S 72.47W 24–25 4.1b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=9.0km az=151.2.
IDC Error ellipse: s-maj=75.0km s-min=27.0km az=100.0.
NEIC Event type se. Error ellipse: s-maj=28.7km s-min=10.1km az=91.0.
ISC IV 13 18 19 19.0–1.8 33.79S–.04 72.11W–.08 8–11 30 1-154
IDC IV 13 18 19 18.8–1.4 33.68S 71.89W 0 4.0L,3.9 **¶16648679**
GUC IV 13 18 19 21.6–.50 33.82S 71.87W 13–4 4.3L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=58.7km s-min=31.8km az=75.0.
GUC Error ellipse: s-maj=1.6km s-min=3.1km az=-1.0.
ISC IV 15 07 01 17.5–.82 35.96S–.06 73.41W–.10 35 3.7b 18 1-159
IDC IV 15 07 01 13.2–1.1 35.72S 73.32W 0 4.0,3.9 **¶17201099**
ISCJB IV 15 07 01 15.5–.75 35.95S–.05 73.48W–.08 33 3.6b,3.2s
GUC IV 15 07 01 16.5–.42 35.98S 73.40W 12–7 3.9L,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=23.7km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.2km az=167.8.
GUC Error ellipse: s-maj=2.5km s-min=5.5km az=-1.0.
ISC IV 17 02 33 04.4–2.5 33.98S–.06 72.3W–.10 9–15 24 0-4
GUC IV 17 02 33 05.3–.38 34.07S 72.41W 22–7 2.9L **¶16648903**
ISC Event type ke.
GUC Error ellipse: s-maj=2.7km s-min=3.0km az=-1.0.
ISC IV 19 00 57 28.9–.48 33.44S–.03 72.38W–.04 26–3 5.0b,4.7s 374 1-176
IDC IV 19 00 57 24.7–.52 33.45S 72.29W 0 4.7,4.6L **¶16445792**
GCMT IV 19 00 57 27.0–.30 33.30S 72.48W 21–0 5.1W,4.6L
NEIC IV 19 00 57 27.0 33.42S 72.43W 45 5.0b,4.6L
ISCJB IV 19 00 57 27.4–.96 33.48S–.02 72.42W–.03 27–7 4.9b,4.6s
GUC IV 19 00 57 27.2–.69 33.42S 72.43W 45–3 5.0L,4.6s
BJI IV 19 00 57 29.1 33.40S 72.10W 21 5.2s,5.0
MOS IV 19 00 57 29.3–1.3 33.42S 72.23W 32 5.1b,5.0
ISC Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=13.4km az=88.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c40; s61,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.06±.21 $M_{\theta\theta}$-0.01±.12; $M_{\phi\phi}$-4.05±.15; $M_{r\theta}$-0.81±.20; $M_{\theta\phi}$-0.21±.08; $M_{\phi r}$-2.53±.23; Best double couple: NP1:ϕ_s191.00000°,δ62.00000°,λ97.00000°. NP2:ϕ_s355.00000°,δ29.00000°,λ76.00000°. Principal axes: T 4.8900,Plg72.0000°,Azm119.0000°; N -0.0790,Plg7.0000°,Azm7.0000°; P -4.8130,Plg16.0000°,Azm275.0000° $M_0$4.85100×10^{16}
NEIC Event type fe. Felt [IV] at Navidad, Villa Alemana and Vina del Mar; [III] at Algarrobo, San Antonio, San Bernardo, Santiago, Santo Domingo and Valparaiso; [II] at Colina, Rancagua and Tiltil. Also felt at Calera, Melipilla and Quilpue. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=13.0.
GUC Error ellipse: s-maj=1.9km s-min=3.3km az=-1.0.
MOS Error ellipse: s-maj=18.1km s-min=8.2km az=101.3.
ISC IV 19 05 50 45.2–.61 33.94S–.03 72.36W–.04 15–3 5.3b,4.8s 934 1-176
IDC IV 19 05 50 42.8–.41 33.88S 72.27W 0 5.1,5.1 **¶16446648**
ISCJB IV 19 05 50 44.5–.96 33.90S–.02 72.47W–.03 19–6 5.2b,4.7s
GUC IV 19 05 50 44.8–.53 33.93S 72.42W 31–4 5.0L,4.7s
NEIC IV 19 05 50 45.4–.58 33.85S 72.15W 13–3 5.3b,5.0L
MOS IV 19 05 50 45.8–.99 33.72S 72.17W 22 5.4b,4.7s
GCMT IV 19 05 50 45.4–.20 33.97S 72.65W 21–0 5.2W,4.7s
BJI IV 19 05 50 45.0 33.80S 72.10W 10 5.3s,5.1b
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=11.9km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.2km az=6.0.
GUC Error ellipse: s-maj=1.5km s-min=4.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=74.0. Felt [II] at Santiago. Also felt at Quilpue, San Felipe, Valparaiso and Vina del Mar.
MOS Error ellipse: s-maj=14.2km s-min=6.8km az=100.4.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c48; s76,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.81±.24 $M_{\theta\theta}$-0.36±.14; $M_{\phi\phi}$-4.44±.17; $M_{r\theta}$0.12±.24; $M_{\theta\phi}$-1.08±.10; $M_{\phi r}$-4.58±.30; Best double couple: NP1:ϕ_s184.00000°,δ67.00000°,λ82.00000°. NP2:ϕ_s23.00000°,δ24.00000°,λ108.00000°. Principal axes: T 6.7330,Plg67.0000°,Azm79.0000°; N -0.2530,Plg7.0000°,Azm187.0000°; P -6.4730,Plg22.0000°,Azm280.0000° $M_0$6.60300×10^{16}
ISC IV 20 12 04 44.5–1.2 33.99S–.04 73.17W–.06 31–7 4.7b 172 1-177
ISCJB IV 20 12 04 43.4–1.3 34.02S–.03 73.19W–.03 31–9 4.7b,3.5s **¶16450791**
GUC IV 20 12 04 43.1–.30 33.86S 73.08W 29–1 4.1L,3.5s
BJI IV 20 12 04 43.2 34.00S 73.20W 17 5.3s,5.1b
NEIC IV 20 12 04 44.7–1.4 33.99S 73.14W 28–9 4.7b,4.1L
IDC IV 20 12 04 45.1–.66 34.04S 73.33W 32–4 4.6L,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=166.5.
GUC Error ellipse: s-maj=1.5km s-min=2.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=75.0. Felt at Vina del Mar.
IDC Error ellipse: s-maj=24.1km s-min=18.1km az=72.0.
ISC IV 20 16 30 11.8–1.0 34.59S–.08 73.7W–.10 35 3.7b 28 3-158
IDC IV 20 16 30 05.0–1.5 34.84S 74.12W 0 3.9,3.8L **¶16649057**
ISCJB IV 20 16 30 09.8–.88 34.69S–.05 73.57W–.08 33 3.7b,3.2s
GUC IV 20 16 30 12.6–.46 33.77S 73.56W 15–14 3.4L,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=51.0km s-min=25.9km az=76.0.

ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.3km az=33.2.
GUC Error ellipse: s-maj=14.2km s-min=17.1km az=-1.0.
GUC IV 21 18 19 57.1–.34 38.67S 74.11W 25–15 3.6L ¶601517187
GUC Error ellipse: s-maj=7.0km s-min=13.1km az=-1.0.
GUC IV 24 05 25 44.2–.81 37.41S 74.27W 35–4 3.8L ¶601517199
GUC Error ellipse: s-maj=3.7km s-min=7.4km az=-1.0.
ISC IV 25 06 11 01.0–.73 37.39S–.05 74.18W–.09 35 4.2b 36 2-151
GUC IV 25 06 10 54.5–.33 37.46S 74.18W 11–6 4.7L **¶16456702**
ISCJB IV 25 06 10 59.3–.63 37.35S–.04 74.01W–.09 33 4.3b,3.6s
IDC IV 25 06 11 00.2–7.6 37.46S 74.04W 23–46 4.0,4.0
NEIC IV 25 06 11 02.6–.80 37.30S 73.82W 35 4.7L,4.4b
ISC Event type se.
GUC Error ellipse: s-maj=1.6km s-min=7.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.3km az=3.4.
IDC Error ellipse: s-maj=49.4km s-min=23.6km az=75.0.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=9.6km az=90.0.
ISC IV 27 04 57 35.4–1.3 33.95S–.03 72.21W–.06 24–8 5.2b,4.6s 792 0-179
GUC IV 27 04 57 32.9–.55 33.95S 72.50W 24–9 5.0L,4.6s **¶16463269**
GCMT IV 27 04 57 32.0–.20 34.01S 72.66W 20–1 5.2W,4.6s
NEIC IV 27 04 57 32.0 33.95S 72.50W 24 5.3b,5.1W
ISCJB IV 27 04 57 33.9–.99 33.87S–.03 72.20W–.06 24–7 5.2b,4.6s
MOS IV 27 04 57 36.1–1.2 33.71S 72.13W 33 5.3b,4.6s
BJI IV 27 04 57 36.2 34.24S 72.68W 39 5.4s,5.2
IDC IV 27 04 57 37.8–3.0 33.88S 72.19W 39–25 5.0,4.9L
ISC Event type fe.
GUC Error ellipse: s-maj=2.0km s-min=5.1km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c54; s79,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.23±.20 $M_{\theta\theta}$-0.10±.11; $M_{\phi\phi}$-4.13±.15; $M_{r\theta}$-0.11±.21; $M_{\theta\phi}$-0.76±.08; $M_{\phi r}$-4.97±.33; Best double couple: NP1:ϕ_s183.00000°,δ70.00000°,λ85.00000°. NP2:ϕ_s17.00000°,δ21.00000°,λ103.00000°. Principal axes: T 6.5510,Plg65.0000°,Azm86.0000°; N -0.0190,Plg4.0000°,Azm185.0000°; P -6.5270,Plg25.0000°,Azm277.0000° $M_0$6.53900×10^{16}
NEIC Event type fe. Felt [IV] at Constitucion and Valparaiso; [II] at Curico, Navidad, Rancagua and Talca. Also felt at Colina, Santiago and Vina del Mar. After GUC. Moment Tensor Solution. s19 Moment tensor: Scale 10^{16}Nm; M_{rr}3.14 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-3.24 $M_{r\theta}$-1.15 $M_{\theta\phi}$1.78 $M_{\phi r}$-3.01 Best double couple: NP1:ϕ_s184.00000°,δ67.00000°,λ117.00000°. NP2:ϕ_s311.00000°,δ35.00000°,λ43.00000°. Principal axes: T 4.9700,Plg59.0000°,Azm131.0000°; N -0.2000,Plg25.0000°,Azm353.0000°; P -4.7700,Plg18.0000°,Azm254.0000° $M_0$4.90000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=169.3.
MOS Error ellipse: s-maj=15.3km s-min=7.0km az=101.1.
IDC Error ellipse: s-maj=19.6km s-min=12.3km az=85.0.
ISC V 01 05 11 53.1–1.1 38.03S–.05 74.3W–.10 35 4.1b 24 2-151
IDC V 01 05 11 50.8–1.9 38.44S 73.68W 0 4.1,4.1L **¶16587551**
GUC V 01 05 11 50.7–.32 38.05S 74.32W 18–2 4.2L,4.1L
NEIC V 01 05 11 50.0 38.05S 74.32W 18 4.2L,4.1L
ISCJB V 01 05 11 51.3–.90 38.03S–.04 74.34W–.09 33 4.2b,4.1L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Tirua and [II] at Lebu, Padre Las Casas, Puerto Saavedra, Renaico, Temuco and Valdivia. After GUC.
ISCJB Event type fe.
ISC V 02 22 48 40.3–3.6 34.94S–.08 74.5W–.20 35 23 2-8
GUC V 02 22 48 53.7–.79 34.72S 72.78W 30–11 3.9L **¶16988300**
ISC Event type ke.
GUC Error ellipse: s-maj=6.2km s-min=6.4km az=-1.0.
ISC V 03 01 34 30.8–2.7 33.82S–.07 72.6W–.20 10 18 1-6
GUC V 03 01 34 30.8–.30 33.79S 72.60W 13–8 3.1L **¶16988305**
ISC Event type ke.
GUC Error ellipse: s-maj=2.0km s-min=9.1km az=-1.0.
ISC V 03 18 22 06.0–2.3 39.03S–.07 74.9W–.20 35 3.5b 20 1-73
IDC V 03 18 22 05.4–2.8 39.08S 74.61W 0 4.4L,4.1 **¶16708727**
GUC V 03 18 22 05.1–.53 38.96S 74.62W 12–13 4.3L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=55.2km s-min=34.2km az=39.0.
GUC Error ellipse: s-maj=5.3km s-min=16.9km az=-1.0.
ISC V 04 01 45 37.9–4.9 34.71S–.09 73.6W–.20 1–20 22 1-6
GUC V 04 01 45 37.3–.40 34.72S 73.75W 36–2 3.5L **¶16988334**
ISC Event type ke.
GUC Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
ISC V 04 05 36 23.3–1.6 33.53S–.04 72.04W–.06 8–10 4.2b 37 1-154
IDC V 04 05 36 22.3–1.2 33.54S 71.95W 0 4.1,3.9 **¶16708762**
ISCJB V 04 05 36 24.4–1.1 33.59S–.04 72.11W–.07 17–8 3.9b,3.9
GUC V 04 05 36 26.0–.33 33.68S 71.88W 28–2 4.1L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=34.7km s-min=29.0km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.4km az=25.4.
GUC Error ellipse: s-maj=1.6km s-min=2.2km az=-1.0.
ISC V 05 05 49 55.0–2.5 33.7S–.20 72.6W–.20 50 16 2-85
IDC V 05 05 49 51.6–4.5 34.06S 71.24W 0 3.9b,3.7 **¶16708878**
ISC Event type ke.
IDC Error ellipse: s-maj=160.1km s-min=24.4km az=93.0.
ISC V 07 06 57 31.0–1.2 33.95S–.04 72.45W–.05 24–8 5.1b,4.3s 638 1-176
ISCJB V 07 06 57 30.0–.91 33.93S–.03 72.38W–.04 26–6 5.0b,4.3s **¶16498411**
GCMT V 07 06 57 31.0–.40 33.98S 72.82W 29–1 5.0W,4.3s
GUC V 07 06 57 31.1–.49 34.02S 72.32W 42–2 4.7L,4.3s
NEIC V 07 06 57 31.0 34.02S 72.32W 42 5.0b,4.3s
MOS V 07 06 57 32.0–1.1 33.79S 72.15W 37 5.1b,4.3s
IDC V 07 06 57 32.4–4.4 33.86S 72.19W 33–32 4.7,4.6
BJI V 07 06 57 33.5 33.80S 72.10W 36 5.3s,5.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=26.7.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s62,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.67±.19 $M_{\theta\theta}$-0.28±.11; $M_{\phi\phi}$-2.38±.14; $M_{r\theta}$-0.50±.14; $M_{\theta\phi}$-0.62±.08; $M_{\phi r}$-2.18±.20; Best double couple: NP1:ϕ_s194.00000°,δ65.00000°,λ89.00000°. NP2:ϕ_s17.00000°,δ25.00000°,λ93.00000°. Principal axes: T 3.4980,Plg70.0000°,Azm101.0000°; N -0.1160,Plg1.0000°,Azm194.0000°; P -3.3770,Plg20.0000°,Azm285.0000° $M_0$3.43700×10^{16}
GUC Error ellipse: s-maj=2.8km s-min=4.3km az=-1.0.
NEIC Event type fe. Felt [II] at Curico, Duao, Iloca, Licanten, Navidad, Paredones, Pichilemu, Rancagua, San Bernardo and Santiago. Also felt at Colina, Quilpue and San Antonio. After GUC.
MOS Error ellipse: s-maj=17.3km s-min=7.6km az=100.1.
IDC Error ellipse: s-maj=22.6km s-min=12.5km az=83.0.
ISC V 07 13 10 48.6–.83 33.92S–.04 72.54W–.08 20–5 4.3b 50 1-157
ISCJB V 07 13 10 48.7–1.3 33.95S–.04 72.54W–.07 23–10 4.3b,3.9s **¶16506879**
GUC V 07 13 10 48.5–.70 33.91S 72.46W 20–9 4.3L,3.9s
NEIC V 07 13 10 48.0 33.91S 72.45W 20 4.3L,4.2b
IDC V 07 13 10 51.5–6.2 34.01S 72.27W 33–46 4.4,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.4km az=16.9.
GUC Error ellipse: s-maj=2.1km s-min=4.5km az=-1.0.
NEIC Event type fe. Felt [III] at Navidad and [II] at Pichilemu and Santiago. After GUC.
IDC Error ellipse: s-maj=39.1km s-min=25.3km az=83.0.
ISC V 07 23 55 47.2–.62 33.89S–.03 72.40W–.05 17 4.0b 40 1-157
NEIC V 07 23 55 46.1–4.1 33.83S 72.43W 8–26 4.2b **¶16578054**
IDC V 07 23 55 46.0–1.4 33.87S 72.11W 0 4.1,3.9L
GUC V 07 23 55 46.5–.60 33.91S 72.39W 16 4.0L,3.9L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=8.2km az=81.0.
IDC Error ellipse: s-maj=53.5km s-min=30.7km az=90.0.
GUC Error ellipse: s-maj=1.8km s-min=5.9km az=-1.0.
ISC V 08 18 45 19.9–.90 34.92S–.08 73.8W–.10 35 3.9b 24 3-158
IDC V 08 18 45 14.4–1.1 35.02S 73.73W 0 4.1,3.9 **¶16709186**
ISCJB V 08 18 45 17.7–.88 34.98S–.05 73.8W–.10 33 3.9b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 00 11 58.9–.85 30.85S–.03 72.13W–.07 12 4.2b 37 1-152

ISCJB V 10 00 11 57.9–.73 30.84S–.03 72.26W–.07 12 3.9b **¶16709304**
IDC V 10 00 11 58.2–1.2 30.91S 72.13W 0 4.0,4.0L
GUC V 10 00 11 59.9–.30 30.83S 72.19W 45 4.5L,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=3.8km az=8.4.
IDC Error ellipse: s-maj=33.5km s-min=26.6km az=83.0.
GUC Error ellipse: s-maj=0.5km s-min=2.7km az=-1.0.
ISC V 11 09 27 33.0–2.0 35.81S–.05 73.3W–.10 35 18 1-6
ISCJB V 11 09 27 31.8–1.1 35.76S–.04 73.4W–.10 33 **¶601517397**
GUC V 11 09 27 31.7–.69 35.75S 73.31W 25–13 4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=5.6km az=179.1.
GUC Error ellipse: s-maj=4.8km s-min=7.4km az=-1.0.
GUC V 12 01 38 15.7–.31 38.20S 74.06W 14–5 3.6L
¶601517401
GUC Error ellipse: s-maj=2.2km s-min=4.7km az=-1.0.
GUC V 12 09 28 30.1–.79 35.50S 73.15W 35–11 3.9L
¶601517404
GUC Error ellipse: s-maj=5.8km s-min=7.7km az=-1.0.
ISC V 12 12 13 06.8–.32 35.72S–.04 73.36W–.06 35 4.9b,4.4s 218 1-178
GUC V 12 12 13 03.9–.34 35.75S 73.43W 46–1 5.1L,4.4s **¶16506441**
ISCJB V 12 12 13 05.9–.18 35.71S–.03 73.26W–.04 33 4.7b,4.4s
MOS V 12 12 13 06.2–1.1 35.68S 73.31W 33 5.1b,4.4s
IDC V 12 12 13 08.4–2.7 35.66S 73.29W 42–25 4.7L,4.4
NEIC V 12 12 13 08.1–.69 35.66S 73.25W 37–6 4.9b,4.4
ISC Event type fe.
GUC Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=154.5.
MOS Error ellipse: s-maj=22.9km s-min=9.6km az=99.7.
IDC Error ellipse: s-maj=25.2km s-min=13.9km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.0km az=85.0. Felt [IV] at Hualpen; [III] at Concepcion and Talcahuano; [II] at Arauco, Coronel and San Pedro de la Paz.
GUC V 14 02 12 32.6–.56 35.22S 73.92W 20 3.7L
¶601517421
GUC Error ellipse: s-maj=15.1km s-min=14.4km az=-1.0.
ISC V 17 10 47 23.4–1.8 33.30S–.04 72.30W–.06 4–10 4.3b,4.1s 45 1-156
IDC V 17 10 47 24.2–1.2 33.31S 72.08W 0 4.2L,4.2b **¶16710100**
SJA V 17 10 47 25.8–1.4 33.40S 72.23W 10–29 4.5L,4.4W
GUC V 17 10 47 26.7–.39 33.30S 72.26W 38–1 4.4L,4.4W
NEIC V 17 10 47 28.1–.81 33.33S 72.23W 35 4.5b,4.4W
ISC Event type fe.
IDC Error ellipse: s-maj=39.4km s-min=21.3km az=90.0.
SJA Error ellipse: s-maj=12.7km s-min=18.4km az=-1.0.
GUC Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=21.6km s-min=11.4km az=89.0. Felt [III] at Constitucion, Navidad, Pichilemu, Quillota, Rancagua and San Antonio; [II] at Linares, Paredones, San Fernando, Santiago and Villa Alemana.
ISC V 20 16 35 41.7–2.8 35.38S–.07 73.2W–.20 17 15 1-8
SJA V 20 16 35 30.6–.70 36.92S 70.22W 464–17 4.5L **¶16988708**
GUC V 20 16 35 33.4–.32 35.15S 70.19W 104–11 2.5L
ISC Event type ke.
SJA Error ellipse: s-maj=45.4km s-min=174.1km az=-1.0.
GUC Error ellipse: s-maj=6.4km s-min=6.5km az=-1.0.
ISC V 20 19 20 33.8–1.7 33.49S–.04 72.09W–.06 6–10 4.5b 56 1-156
ISCJB V 20 19 20 33.7–.53 33.52S–.04 72.20W–.04 10 4.5b **¶16710431**
IDC V 20 19 20 33.8–1.5 33.58S 71.92W 0 3.9,3.8
NEIC V 20 19 20 35.3–3.4 33.43S 72.09W 12–19 4.8b,3.8
GUC V 20 19 20 37.3–.73 33.58S 71.93W 20–15 3.8L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=139.9.
IDC Error ellipse: s-maj=73.3km s-min=22.6km az=95.0.
NEIC Event type se. Error ellipse: s-maj=27.7km s-min=8.5km az=85.0.
GUC Error ellipse: s-maj=5.1km s-min=7.8km az=-1.0.
ISC V 21 19 05 37.9–2.9 33.97S–.06 72.5W–.10 2–19 15 1-7
GUC V 21 19 05 39.3–.58 34.11S 72.55W 43–4 3.7L **¶601517472**
ISC Event type ke.
GUC Error ellipse: s-maj=4.7km s-min=5.4km az=-1.0.
ISC V 24 06 14 39.7–1.9 33.99S–.05 72.2W–.10 17–10 4.1b 21 0-157
IDC V 24 06 14 37.1–1.1 34.00S 72.22W 0 3.9,3.8 **¶17204359**
ISCJB V 24 06 14 38.7–1.5 34.01S–.05 72.38W–.08 23–10 3.8b,3.8
GUC V 24 06 14 40.0–.36 34.02S 72.26W 29–7 3.8L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=43.9km s-min=27.6km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.6km az=24.4.
GUC Error ellipse: s-maj=1.3km s-min=2.9km az=-1.0.
ISC V 28 21 08 36.6–2.4 33.88S–.07 72.6W–.10 17 15 1-7
GUC V 28 21 08 31.1–.33 33.82S 73.09W 15–999 3.5L **¶16989041**
ISC Event type ke.
GUC Error ellipse: s-maj=9.3km s-min=8.8km az=-1.0.
ISC V 30 11 35 35.3–2.3 32.92S–.09 72.05W–.09 2–14 17 1-126
IDC V 30 11 35 35.2–1.6 32.94S 71.88W 0 4.1L,3.9 **¶17204758**
GUC V 30 11 35 38.2–.50 33.00S 71.94W 10–21 3.8L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=53.5km s-min=30.3km az=82.0.
GUC Error ellipse: s-maj=10.0km s-min=9.9km az=-1.0.
ISC VI 01 01 49 46.2–2.0 37.64S–.04 74.1W–.10 1–11 4.1b,3.5s 28 1-156
ISCJB VI 01 01 49 47.0–2.1 37.64S–.03 74.02W–.09 14–14 4.0b,3.5s **¶16632933**
NEIC VI 01 01 49 47.0 37.59S 74.17W 28 4.0b,3.7L
GUC VI 01 01 49 47.2–.41 37.59S 74.17W 28–3 3.7L,3.7L
IDC VI 01 01 49 52.1–6.9 37.68S 73.89W 33–50 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=5.4km az=9.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.3km s-min=4.7km az=-1.0.
IDC Error ellipse: s-maj=49.1km s-min=26.7km az=82.0.
ISC VI 02 23 35 36.3–4.5 33.5S–.20 72.3W–.20 35 10 1-5
SJA VI 02 23 35 15.7–.42 35.61S 71.56W 334–30 3.4L,3.1W **¶601517650**
GUC VI 02 23 35 35.3–.54 33.42S 72.20W 27–10 2.7L,3.1W
ISC Event type ke.
SJA Error ellipse: s-maj=16.7km s-min=52.4km az=-1.0.
GUC Error ellipse: s-maj=6.7km s-min=5.7km az=-1.0.
ISC VI 04 00 39 24.5–1.8 37.62S–.06 74.1W–.20 35 3.5b 12 1-87
GUC VI 04 00 39 20.7–.40 37.64S 73.87W 2 3.7L **¶17205139**
ISCJB VI 04 00 39 22.9–1.3 37.62S–.05 74.2W–.10 33 3.4b,3.2s
IDC VI 04 00 39 27.0–1.4 37.37S 72.30W 0 3.7,3.6
ISC Event type ke.
GUC Error ellipse: s-maj=0.8km s-min=3.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=6.8km az=10.1.
IDC Error ellipse: s-maj=45.5km s-min=28.8km az=75.0.
GUC VI 06 05 31 05.7–.50 39.68S 74.95W 20–5 3.7L
¶601517703
GUC Error ellipse: s-maj=2.4km s-min=4.7km az=-1.0.
ISC VI 09 18 43 43.3–.62 36.41S–.05 75.61W–.07 35 4.5b,3.9s 51 2-161
IDC VI 09 18 43 37.1–1.2 36.54S 75.83W 0 4.5L,4.2 **¶16856800**
NEIC VI 09 18 43 39.2–.44 36.44S 75.78W 10 4.8b,4.2
ISCJB VI 09 18 43 41.2–.43 36.44S–.04 75.60W–.04 33 4.4b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 10 09 35 40.6–3.8 32.36S–.07 72.3W–.10 15–28 23 1-4
SJA VI 10 09 35 40.4–.65 32.40S 72.19W 17–10 3.9W,3.3L **¶16989309**
GUC VI 10 09 35 45.3–.66 32.22S 71.74W 36–3 3.7L,3.3L
ISC Event type ke.
SJA Error ellipse: s-maj=12.1km s-min=14.7km az=-1.0.
GUC Error ellipse: s-maj=4.0km s-min=9.5km az=-1.0.
ISC VI 14 21 12 51.4–3.7 33.92S–.08 73.16W–.07 7–23 4.2b 44 1-155
ISCJB VI 14 21 12 51.5–1.3 33.95S–.07 73.22W–.05 20–11 4.0b,3.2s **¶16730501**
GUC VI 14 21 12 53.2–.71 33.81S 73.07W 25–4 3.7L,3.2s
IDC VI 14 21 12 56.8–3.3 34.08S 73.19W 49–30 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.0km az=164.3.
GUC Error ellipse: s-maj=3.4km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=33.3km s-min=26.0km az=86.0.
ISC VI 21 16 21 22.5–.46 37.51S–.04 74.11W–.07 35 4.5b 75 1-175
GUC VI 21 16 21 13.8–.52 37.55S 74.35W 11–6 4.7L **¶16640780**
IDC VI 21 16 21 17.6–.85 37.55S 73.85W 0 4.6,4.6s
ISCJB VI 21 16 21 20.9–.40 37.52S–.03 73.87W–.07 33 4.4b,4.2s
BJI VI 21 16 21 21.4 38.22S 73.17W 37 5.4,5.3s
NEIC VI 21 16 21 23.0–.82 37.52S 73.81W 37–7 4.6b,5.3s
ISC Event type fe.
GUC Error ellipse: s-maj=1.9km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=17.9km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=177.3.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=5.1km az=87.0. Felt [III] at Arauco, Contulmo, Curanilahue and Lebu; [II] at Concepcion, Lota, Mulchen and San Pedro de la Paz.
ISC VI 21 18 09 57.9–2.1 37.44S–.06 74.1W–.20 35 9 2-87
IDC VI 21 18 09 46.8–6.4 38.00S 75.31W 0 3.8,3.8L **¶17206691**
ISCJB VI 21 18 09 54.1–2.0 37.42S–.06 74.3W–.20 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
GUC VI 25 13 28 39.9–.44 33.29S 72.05W 28–8 2.6L
¶16989570
GUC Error ellipse: s-maj=5.9km s-min=3.8km az=-1.0.
GUC VI 25 23 48 34.8–.38 35.13S 73.05W 19–4 3.9L
¶601517874
GUC Error ellipse: s-maj=2.3km s-min=2.9km az=-1.0.
ISC VI 26 19 07 30.0–1.6 36.9S–.10 74.1W–.20 35 4 1-71
IDC VI 26 19 07 25.5–2.1 36.79S 74.04W 0 4.0,3.7 **¶17207018**
ISCJB VI 26 19 07 27.6–1.4 36.9S–.10 74.1W–.20 33 3.5b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 07 25 59.9–2.1 30.91S–.04 72.2W–.10 0–15 29 1-6
GUC VI 27 07 26 07.6–.48 30.88S 71.89W 32–4 3.6L **¶16989613**
ISC Event type ke.
GUC Error ellipse: s-maj=1.6km s-min=6.8km az=-1.0.
ISC VI 28 09 45 46.7–1.9 35.08S–.04 73.16W–.09 9–10 27 1-8
GUC VI 28 09 45 49.5–.43 35.03S 73.06W 34–6 3.9L **¶16989652**
ISC Event type ke.
GUC Error ellipse: s-maj=1.8km s-min=3.2km az=-1.0.
ISC VI 28 12 08 55.5–2.7 35.81S–.05 73.4W–.10 7–14 29 1-8
GUC VI 28 12 08 56.5–.60 35.87S 73.43W 14–28 4.0L **¶16989658**
ISC Event type ke.
GUC Error ellipse: s-maj=2.5km s-min=23.4km az=-1.0.
GUC VI 28 13 11 25.1–.41 35.87S 73.45W 30–5 3.7L
¶601517912
GUC Error ellipse: s-maj=1.8km s-min=3.3km az=-1.0.
GUC VI 29 02 52 02.8–.49 35.71S 73.35W 30–11 3.7L
¶601517919
GUC Error ellipse: s-maj=4.6km s-min=6.7km az=-1.0.
ISC VI 29 05 36 50.4–.83 33.90S–.03 72.17W–.04 30–5 5.5b,5.2s 1036 1-179
IDC VI 29 05 36 45.3–.37 33.95S 72.13W 0 5.2,5.2s **¶16685765**
NEIC VI 29 05 36 46.0 33.91S 72.34W 20 5.5b,5.2s
GCMT VI 29 05 36 46.0–.10 33.98S 72.54W 19–0 5.5W,5.2s
GUC VI 29 05 36 46.8–.47 33.91S 72.34W 20–7 5.1L,5.2s
ISCJB VI 29 05 36 47.5–.89 33.88S–.02 72.41W–.04 22–6 5.4b,5.2s
BJI VI 29 05 36 49.1 33.90S 72.10W 18 5.5s,5.4
MOS VI 29 05 36 50.0–1.1 33.77S 72.19W 31 5.6b,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.3km az=86.0.
NEIC Event type fe. Felt [III] at Curico, Iloca, Molina, Navidad, Paredones, Pichilemu and San Antonio; [II] at Chepica, Cobquecura, Colina, Concepcion, Constitucion, El Quisco, Lolol, Parral, Rancagua, San Carlos, Santa Cruz, Santiago, Talca, Talcahuano, Tiltil, Valparaiso and Vina del Mar. After GUC.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c145; s110,c196; Duration: 1^{s}4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.52±.03 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$-1.43±.03; $M_{r\theta}$-0.05±.05; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$-2.02±.08; Best double couple: NP1:ϕ_s183.00000° ,δ72.00000°,λ87.00000°. NP2:ϕ_s13.00000°,δ18.00000°,λ100.00000°. Principal axes: T 2.5470,Plg63.0000°,Azm88.0000°; N -0.0760,Plg3.0000°,Azm184.0000° ; P -2.4730,Plg27.0000°,Azm275.0000° $M_0$2.51000×10^{17}
GUC Error ellipse: s-maj=1.9km s-min=5.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.9km az=176.8.
MOS Error ellipse: s-maj=14.7km s-min=7.0km az=100.8.
ISC VI 29 05 40 06.1–.77 33.89S–.09 72.3W–.20 17 5.0b 26 7-166
ISCJB VI 29 05 40 04.4–1.0 33.86S–.08 72.4W–.30 17 4.9b **¶17207166**
IDC VI 29 05 40 09.6–3.0 33.87S 72.29W 45–26 4.8,4.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.4km s-min=11.3km az=1.9.
IDC Error ellipse: s-maj=34.7km s-min=19.1km az=92.0.
ISC VI 29 05 52 51.7–3.1 33.96S–.06 72.3W–.10 5–16 30 0-10
GUC VI 29 05 52 51.0–.65 33.96S 72.38W 31–5 3.0L **¶16989682**
ISC Event type ke.
GUC Error ellipse: s-maj=2.9km s-min=5.8km az=-1.0.
ISC VI 29 05 58 27.2–2.3 33.93S–.04 72.3W–.10 8–12 32 1-5
GUC VI 29 05 58 28.6–.49 33.93S 72.31W 20–12 2.8L **¶16989683**
ISC Event type ke.
GUC Error ellipse: s-maj=1.4km s-min=5.0km az=-1.0.
ISC VI 29 06 38 53.5–2.1 33.96S–.05 72.3W–.10 14–11 32 0-6
GUC VI 29 06 38 53.1–.62 33.96S 72.27W 31–5 2.8L **¶16989685**
ISC Event type ke.
GUC Error ellipse: s-maj=1.9km s-min=5.3km az=-1.0.
ISC VI 29 06 46 21.6–1.7 34.00S–.04 72.34W–.07 17–10 4.0b 49 0-154
IDC VI 29 06 46 18.5–1.2 33.95S 72.13W 0 3.9,3.8 **¶16731753**
GUC VI 29 06 46 20.0–.65 33.95S 72.39W 25–5 3.5L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=52.6km s-min=19.9km az=87.0.
GUC Error ellipse: s-maj=2.0km s-min=6.1km az=-1.0.
ISC VI 29 06 48 08.4–2.1 33.92S–.05 72.29W–.10 18–10 22 1-157
IDC VI 29 06 48 05.6–2.0 34.01S 72.06W 0 3.9,3.7 **¶17207174**
ISCJB VI 29 06 48 06.3–1.5 33.94S–.04 72.53W–.07 10–9 3.7b,3.7
GUC VI 29 06 48 07.6–.56 33.93S 72.37W 20–5 3.7L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=52.8km s-min=50.4km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.4km az=0.5.
GUC Error ellipse: s-maj=1.9km s-min=4.9km az=-1.0.
ISC VI 29 07 02 25.0–.38 33.97S–.03 72.36W–.04 17 4.7b,4.1s 134 1-179
IDC VI 29 07 02 21.9–.73 33.91S 72.25W 0 4.4,4.4L **¶16685977**
NEIC VI 29 07 02 23.0 33.97S 72.47W 30 4.7b,4.3L
GUC VI 29 07 02 23.7–.69 33.97S 72.47W 30–8 4.3L,4.3L
ISCJB VI 29 07 02 24.4–.27 34.01S–.03 72.43W–.04 17 4.6b,4.1s
BJI VI 29 07 02 24.4 34.00S 71.90W 18 5.3b,5.1s
ISC Event type fe.
IDC Error ellipse: s-maj=33.0km s-min=20.3km az=79.0.
NEIC Event type fe. Felt [II] at Curico, Iloca and Talca. After GUC.
GUC Error ellipse: s-maj=2.6km s-min=7.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=4.2km az=173.5.
ISC VI 29 07 31 57.0–2.1 33.94S–.04 72.33W–.07 10–11 60 1-157
IDC VI 29 07 31 55.3–1.1 33.96S 72.32W 0 3.7,3.7L **¶16731758**
ISCJB VI 29 07 31 56.4–1.2 33.94S–.03 72.48W–.06 15–9 3.5b,3.3s
GUC VI 29 07 31 57.8–.80 33.96S 72.30W 27–6 3.8L,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=31.0km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.7km az=11.8.
GUC Error ellipse: s-maj=2.2km s-min=4.6km az=-1.0.
ISC VI 29 07 41 05.9–2.5 33.97S–.05 72.6W–.10 14–14 35 1-6
GUC VI 29 07 41 07.0–.52 33.96S 72.36W 28–8 3.4L **¶16989688**
ISC Event type ke.
GUC Error ellipse: s-maj=2.0km s-min=6.8km az=-1.0.

(135) Near coast of central Chile.

ISC I 01 00 47 12.5–2.2 29.72S–.05 71.8W–.10 19–4 18 1-5

GUC I 01 00 47 14.2–.34 29.75S 71.66W 41–2 4.0L ¶601996229
ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=4.0km az=-1.0.
ISC I 01 10 34 18.9–1.5 34.85S–.03 71.78W–.06 2–14 31 0-4
SJA I 01 10 34 19.2–.73 34.72S 71.93W 10 3.6W,3.2L ¶601515975
GUC I 01 10 34 22.1–.52 34.77S 71.78W 39–1 4.1L,3.2L
ISC Event type ke.
SJA Error ellipse: s-maj=3.5km s-min=8.9km az=-1.0.
GUC Error ellipse: s-maj=1.3km s-min=2.4km az=-1.0.
ISC I 01 13 42 16.0–1.4 36.87S–.07 73.58W–.08 14 3.6b 22 0-86
ISCJB I 01 13 42 13.0–.94 36.89S–.06 73.84W–.07 14 3.5b ¶17189137
GUC I 01 13 42 13.9–.38 36.88S 73.72W 13–4 3.7L
IDC I 01 13 42 14.1–1.8 36.83S 73.30W 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.1km az=160.5.
GUC Error ellipse: s-maj=3.2km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=67.6km s-min=20.5km az=67.0.
ISC I 02 02 52 54.6–1.8 31.54S–.03 71.84W–.07 2–14 27 2-7
SJA I 02 02 52 55.1–1.1 31.55S 72.17W 32–16 3.8L,3.5W ¶601996231
GUC I 02 02 52 58.1–.52 31.55S 71.78W 24–4 3.6L,3.5W
ISC Event type ke.
SJA Error ellipse: s-maj=5.3km s-min=13.2km az=-1.0.
GUC Error ellipse: s-maj=1.6km s-min=8.2km az=-1.0.
ISC I 02 07 52 30.5–1.6 33.08S–.04 71.42W–.08 29–10 36 0-5
SJA I 02 07 52 28.0–1.2 32.91S 71.53W 31–5 3.8L,3.4W ¶601515995
ISCJB I 02 07 52 29.1–1.0 33.04S–.03 71.50W–.06 33–4 3.8L,3.4W
GUC I 02 07 52 29.3–.55 33.01S 71.38W 44–2 3.7L,3.4W
ISC Event type ke.
SJA Error ellipse: s-maj=8.6km s-min=7.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=5.7.
GUC Error ellipse: s-maj=3.1km s-min=3.2km az=-1.0.
GUC I 02 13 56 41.3–.40 37.35S 73.92W 14–4 3.9L
¶601515999
GUC Error ellipse: s-maj=1.4km s-min=5.0km az=-1.0.
ISC I 02 14 07 39.9–1.9 34.64S–.05 72.00W–.09 33–4 20 0-4
GUC I 02 14 07 37.1–.35 34.50S 72.36W 53–2 3.9L ¶601996233
ISC Event type ke.
GUC Error ellipse: s-maj=2.2km s-min=5.0km az=-1.0.
ISC I 02 20 20 18.2–.35 38.39S–.02 73.40W–.04 24–2 7.1s,6.5b 1809 0-177
GUC I 02 20 20 07.5–.43 38.36S 75.03W 32–4 6.9L,6.5b ¶601988664
IDC I 02 20 20 13.4–.31 38.44S 73.27W 0 7.0,7.0s
MOS I 02 20 20 13.4–1.4 38.40S 73.30W 33 7.0s,6.2b
ISCJB I 02 20 20 14.4–.86 38.33S–.02 73.34W–.03 8–5 7.1s,6.3b
NEIC I 02 20 20 16.0–.00 38.36S 73.28W 17 7.1s,6.3b
BJI I 02 20 20 17.5 38.30S 73.30W 24 7.4,7.4s
NEIC I 02 20 20 17.8–.13 38.36S 73.33W 24 7.2W,7.2
GCMT I 02 20 20 17.7–.10 38.71S 73.84W 19–0 7.1W,7.2
NEIC I 02 20 20 40.6–.00 38.81S 73.67W 10 7.1W,7.2
ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=5.6km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=10.0km az=91.0.
MOS Error ellipse: s-maj=9.4km s-min=5.4km az=98.6. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s163.00000°,δ84.00000°,λ101.00000°. NP2: ϕ_s238.00000°,δ12.00000°,λ31.00000°. Principal axes: T Plg50.0000°,Azm85.0000° ; N Plg11.0000°,Azm342.0000°; P Plg38.0000°,Azm243.0000° $M_0$1.60000×10^{20}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=8.7.
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{19}Nm; M_{rr}2.91 $M_{\theta\theta}$0.13 $M_{\phi\phi}$-3.04 $M_{r\theta}$-0.29 $M_{\theta\phi}$-0.03 $M_{\phi r}$-7.25 Best double couple: NP1:ϕ_s182.00000° ,δ78.00000°,λ90.00000°. NP2:ϕ_s358.00000°,δ11.00000°,λ86.00000°. Principal axes: T 7.7800,Plg56.0000°,Azm93.0000°; N 0.1300,Plg1.0000°,Azm2.0000° ; P -7.9100,Plg34.0000°,Azm272.0000° $M_0$7.80000×10^{19}
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=75.0. Felt [VII] at Nueva Imperial; [VI] at Curanilahue, Lebu and Tirua; [V] at Angol, Canete, Chiguayante, Coelemu, Concepcion, Hualqi, La Laja, Los Alamos, Los Angeles, San Pedro de la Paz, San Rosendo, Talcahuano and Temuco. Felt throughout central Chile from Santiago to Isla Chiloe. Felt [III] at San Carlos de Bariloche and Neuquen and [II] at Cutral Co, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$6.30000×10^{19} Moment Tensor Solution. s6 Moment tensor: Scale 10^{19}Nm; M_{rr}1.30 $M_{\theta\theta}$0.25 $M_{\phi\phi}$-1.55 $M_{r\theta}$0.59 $M_{\theta\phi}$-0.30 $M_{\phi r}$-3.47 Best double couple: NP1:ϕ_s172.00000°,δ79.00000°,λ82.00000°. NP2:ϕ_s30.00000°,δ13.00000°,λ128.00000°. Principal axes: T 3.7500,Plg55.0000°,Azm71.0000°; N 0.1300,Plg8.0000°,Azm173.0000° ; P -3.8800,Plg34.0000°,Azm269.0000° $M_0$3.80000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s175.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm85.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm265.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c360; s137,c649;Duration: 8s9 Moment tensor: Scale 10^{19}Nm; M_{rr}2.84±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$-2.79±.01; $M_{r\theta}$0.27±.05; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$-5.66±.11; Best double couple: NP1: ϕ_s178.00000°,δ77.00000°,λ88.00000°. NP2:ϕ_s5.00000°,δ13.00000°,λ97.00000°. Principal axes: T 6.3570,Plg58.0000°,Azm86.0000°; N -0.0580,Plg2.0000°,Azm178.0000° ; P -6.2980,Plg32.0000°,Azm269.0000° $M_0$6.32700×10^{19}
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{19}Nm; M_{rr}2.73 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-2.82 $M_{r\theta}$-0.45 $M_{\theta\phi}$-0.24 $M_{\phi r}$-4.45 Best double couple: NP1:ϕ_s186.00000° ,δ74.00000°,λ91.00000°. NP2:ϕ_s4.00000°,δ16.00000°,λ88.00000°. Principal axes: T 5.2100,Plg61.0000°,Azm96.0000°; N 0.1100,Plg1.0000°,Azm5.0000° ; P -5.3200,Plg29.0000°,Azm275.0000° $M_0$5.30000×10^{19}
IDC I 02 20 36 43.9–22 39.80S 73.76W 0 4.0,3.9
¶17189243
IDC Error ellipse: s-maj=913.9km s-min=45.0km az=25.0.
ISC I 02 20 40 58.3–.79 38.65S–.10 73.5W–.10 18 4.4b 28 3-171
IDC I 02 20 40 55.4–.93 38.67S 73.65W 0 4.5,4.4 ¶16026439
ISCJB I 02 20 40 57.1–.80 38.63S–.10 73.5W–.20 18 4.4b,4.4
NEIC I 02 20 41 00.9–.58 38.52S 73.58W 35 4.2b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=32.6km s-min=22.6km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=14.0km az=172.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=10.0km az=76.0.
ISC I 02 20 52 03.4–1.0 38.6S–.10 73.2W–.20 18 4.3b 24 3-160
IDC I 02 20 52 00.5–1.1 38.55S 73.36W 0 4.5L,4.2 ¶17189244
ISCJB I 02 20 52 02.1–.93 38.5S–.10 73.3W–.20 18 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 02 21 10 17.1–.36 38.35S–.03 73.39W–.07 18 4.9b 227 2-175
NEIC I 02 21 10 12.0 38.38S 74.33W 33 5.1L,4.9b ¶15902890
GUC I 02 21 10 12.1–.35 38.38S 74.33W 33–2 5.1L,4.9b
MOS I 02 21 10 14.1–3.9 38.30S 73.60W 33 4.7b,4.9b
IDC I 02 21 10 14.1–.56 38.41S 73.59W 0 4.9L,4.5
ISCJB I 02 21 10 15.4–.23 38.34S–.03 73.61W–.06 18 6.7s,4.8b
ISC Event type fe.
NEIC Event type fe. Felt [II] at Lomas San Andres. Also felt at Los Angeles, Temuco and Valdivia. After GUC.
ISCJB Event type fe.
ISC I 02 21 15 52.4–.73 38.6S–.10 73.9W–.10 35 4.8b 50 3-171
IDC I 02 21 15 47.4–.93 38.53S 73.93W 0 4.4L,4.3 ¶16021235
ISCJB I 02 21 15 50.6–.64 38.57S–.09 73.8W–.10 33 4.6b,4.3
NEIC I 02 21 15 53.1–.51 38.35S 73.92W 35 4.9b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=22.1km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=11.6km az=153.8.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=9.9km az=60.0.
IDC I 02 21 24 03.3–2.1 37.82S 73.00W 0 4.5L,3.7
¶17189248
IDC Error ellipse: s-maj=92.5km s-min=35.6km az=57.0.
IDC I 02 21 27 40.1–24 39.32S 73.81W 0 3.9,3.8
¶17189250
IDC Error ellipse: s-maj=975.1km s-min=49.8km az=25.0.
ISC I 02 21 28 46.1–1.6 38.6S–.30 73.7W–.20 18 4.2b 13 18-161
IDC I 02 21 28 43.0–1.6 38.59S 73.75W 0 4.2,4.1L ¶17189251
ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=34.1km az=19.0.

ISC I 02 21 30 13.7–1.1 38.5S–.20 73.8W–.20 18 4.1b 10 3-159
IDC I 02 21 30 10.8–1.2 38.52S 73.82W 0 4.3,4.3L ¶17189253
ISCJB I 02 21 30 12.1–1.1 38.5S–.20 73.8W–.20 18 4.0b,4.3L
ISC Event type ke.
ISCJB Event type ke.
ISC I 02 21 31 09.2–.67 38.53S–.09 73.6W–.10 18 4.8b 32 3-171
IDC I 02 21 31 06.7–1.3 38.47S 73.64W 0 4.5,4.5L ¶16021233
ISCJB I 02 21 31 07.7–.52 38.56S–.09 73.7W–.10 18 4.7b,4.5L
NEIC I 02 21 31 11.7–.49 38.53S 73.55W 35 4.7b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=41.1km s-min=26.1km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=11.8km az=160.3.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=11.0km az=77.0.
ISC I 02 21 40 27.6–1.9 39.4S–.30 73.9W–.30 35 3.9b 7 3-88
IDC I 02 21 40 20.9–1.8 39.64S 74.09W 0 5.2L,4.2 ¶17189254
ISC Event type ke.
IDC Error ellipse: s-maj=53.1km s-min=35.7km az=26.0.
ISC I 02 21 48 26.8–.69 38.62S–.09 73.8W–.10 35 4.5b 40 3-161
IDC I 02 21 48 21.6–1.1 38.69S 73.90W 0 4.3,4.3L ¶16031078
ISCJB I 02 21 48 24.6–.57 38.66S–.08 73.9W–.10 33 4.5b,4.3L
NEIC I 02 21 48 27.0–.51 38.54S 73.66W 35 4.7b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=35.2km s-min=23.1km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=10.0km az=159.7.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=9.3km az=72.0.
ISC I 02 22 05 17.1–.99 38.39S–.10 73.4W–.20 18 4.2b 28 3-160
IDC I 02 22 05 14.4–1.0 38.38S 73.54W 0 4.4L,4.3 ¶16031079
ISCJB I 02 22 05 16.6–.84 38.20S–.09 73.5W–.20 18 4.2b,4.3
NEIC I 02 22 05 19.7–.90 38.25S 73.60W 35 4.0b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=33.5km s-min=22.3km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=13.5km az=174.9.
NEIC Event type se. Error ellipse: s-maj=26.1km s-min=14.1km az=81.0.
ISC I 02 22 09 57.9–.84 38.38S–.10 73.7W–.10 18 4.5b 23 3-159
IDC I 02 22 09 55.8–.99 38.37S 73.33W 0 4.6L,4.4 ¶15902891
ISCJB I 02 22 09 56.4–.69 38.32S–.08 73.6W–.10 18 4.2b,4.4
NEIC I 02 22 10 00.4–.88 38.40S 73.59W 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=35.0km s-min=18.3km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=11.3km az=26.6.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=13.5km az=80.0.
IDC I 02 22 14 41.3–3.8 39.68S 73.98W 0 3.9,3.9L
¶17189258
IDC Error ellipse: s-maj=111.8km s-min=52.0km az=2.0.
ISC I 02 22 21 42.2–1.8 38.5S–.20 73.5W–.30 18 4.0b 8 3-160
IDC I 02 22 21 39.6–2.2 38.43S 73.66W 0 4.0L,3.9 ¶17189261
ISC Event type ke.
IDC Error ellipse: s-maj=50.9km s-min=42.5km az=41.0.
ISC I 02 22 35 32.6–.73 38.39S–.05 73.73W–.09 10 4.2b 34 0-171
GUC I 02 22 35 28.5–.41 38.30S 73.95W 5–2 4.7L ¶16031075
ISCJB I 02 22 35 31.1–.59 38.30S–.03 73.8W–.10 10 4.3b
IDC I 02 22 35 31.3–.88 38.50S 73.78W 0 4.2,4.1
NEIC I 02 22 35 36.4–.63 38.45S 73.69W 35 4.6b,4.1
ISC Event type se.
GUC Error ellipse: s-maj=0.8km s-min=3.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=4.2km az=177.0.
IDC Error ellipse: s-maj=30.1km s-min=21.5km az=85.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=12.8km az=51.0.
ISC I 02 23 27 04.3–.74 38.59S–.05 73.77W–.08 18 4.3b 39 0-161
IDC I 02 23 27 00.2–1.3 38.76S 73.72W 0 4.8L,4.3 ¶16007508
ISCJB I 02 23 27 01.8–.46 38.69S–.04 73.85W–.08 18 4.2b,4.3
GUC I 02 23 27 03.7–.36 38.76S 72.87W 8–2 4.8L,4.3
NEIC I 02 23 27 06.9–.67 38.49S 73.66W 35 4.8L,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=33.4km s-min=28.4km az=57.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.9km az=166.2.
GUC Error ellipse: s-maj=0.8km s-min=3.2km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.5km az=52.0.
IDC I 02 23 28 47.3–2.9 39.10S 73.82W 0 4.2L,4.0
¶17189267
IDC Error ellipse: s-maj=94.1km s-min=43.1km az=14.0.
ISC I 02 23 43 07.2–.47 38.30S–.04 73.3W–.10 18 4.7b 152 0-177
IDC I 02 23 43 04.1–.80 38.25S 73.34W 0 5.0L,4.4 ¶15902896
ISCJB I 02 23 43 05.8–.23 38.30S–.03 73.29W–.07 18 4.5b,4.4
NEIC I 02 23 43 06.0 38.30S 73.51W 17 4.9b,4.7L
GUC I 02 23 43 06.0–.62 38.30S 73.51W 17–45 4.7L,4.7L
BJI I 02 23 43 07.0 38.30S 73.30W 20 5.4b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=25.5km s-min=16.7km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.4km az=2.6.
NEIC Event type fe. Felt at Puerto Montt and Villarrica. After GUC.
GUC Error ellipse: s-maj=10.9km s-min=69.1km az=-1.0.
ISC I 03 00 27 57.4–.99 38.29S–.04 73.4W–.10 18 3.5b 12 1-87
IDC I 03 00 27 55.7–2.2 38.17S 73.30W 0 4.3L,3.8 ¶17189271
GUC I 03 00 27 56.3–.47 38.36S 73.72W 36–8 3.8L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=70.6km s-min=30.3km az=63.0.
GUC Error ellipse: s-maj=3.0km s-min=13.3km az=-1.0.
ISC I 03 01 20 05.0–1.9 38.74S–.07 74.0W–.10 18 3.5b 9 0-87
GUC I 03 01 19 51.4–.45 39.05S 74.92W 30 4.9L ¶17189276
IDC I 03 01 20 02.1–2.4 38.69S 74.04W 0 3.7,3.5
ISC Event type ke.
GUC Error ellipse: s-maj=5.0km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=72.1km s-min=31.1km az=53.0.
ISC I 03 01 24 11.4–2.3 29.62S–.05 71.6W–.10 24–16 21 1-6
SJA I 03 01 24 14.2–.70 29.74S 71.36W 33 3.3L,3.2W ¶601516008
GUC I 03 01 24 14.4–.35 29.66S 70.88W 76–4 3.9L,3.2W
ISC Event type ke.
SJA Error ellipse: s-maj=4.7km s-min=6.0km az=-1.0.
GUC Error ellipse: s-maj=1.3km s-min=26.5km az=-1.0.
ISC I 03 01 46 25.7–2.8 33.54S–.06 71.9W–.10 1–13 26 1-6
GUC I 03 01 46 27.0–.36 33.55S 71.87W 4–16 3.3L ¶601996235
ISC Event type ke.
GUC Error ellipse: s-maj=3.8km s-min=20.9km az=-1.0.
ISC I 03 01 58 41.5–1.3 34.70S–.04 71.66W–.06 19–4 25 0-7
GUC I 03 01 58 40.4–.63 34.74S 71.71W 38–2 3.3L ¶601516011
ISCJB I 03 01 58 41.0–.82 34.74S–.04 71.72W–.08 30–6 3.3L
SJA I 03 01 58 44.1–.78 34.44S 71.60W 119–20 3.0L,2.7W
ISC Event type ke.
GUC Error ellipse: s-maj=2.6km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.5km az=157.6.
SJA Error ellipse: s-maj=16.6km s-min=20.7km az=-1.0.
ISC I 03 01 59 15.1–1.2 38.5S–.10 73.8W–.20 35 3.8b 11 3-161
IDC I 03 01 59 09.5–1.1 38.51S 73.92W 0 4.2L,4.1 ¶17189278
ISCJB I 03 01 59 13.5–1.0 38.5S–.10 73.7W–.20 33 3.8b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC I 03 02 37 02.5–1.7 38.30S 73.38W 0 3.9s,3.9
¶17189284
IDC Error ellipse: s-maj=49.6km s-min=26.2km az=61.0.
ISC I 03 03 41 42.7–1.3 38.3S–.20 73.4W–.20 18 3.6b 10 3-160
IDC I 03 03 41 39.9–1.6 38.28S 73.47W 0 3.9L,3.8 ¶17189289
ISCJB I 03 03 41 41.2–1.2 38.3S–.10 73.4W–.20 18 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 03 05 03 48.3–.47 38.57S–.04 73.35W–.08 18 4.7b,3.9s 81 2-177
GUC I 03 05 03 44.9–.48 38.63S 74.07W 16–8 4.7L,3.9s ¶16021246
IDC I 03 05 03 44.7–.83 38.59S 73.63W 0 4.2,4.1
ISCJB I 03 05 03 47.0–.40 38.55S–.05 73.54W–.08 18 4.6b,3.9s
NEIC I 03 05 03 49.3–3.7 38.60S 73.61W 25–25 4.9b,4.7L
ISC Event type se.

GUC Error ellipse: s-maj=2.3km s-min=13.6km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=15.3km az=62.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.7km az=26.1.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=8.3km az=71.0.

ISC	**I**	**03 05 11 57.3–1.7**	**38.7S–.30**	**73.9W–.30**	**35**	**3.8b**	**8**	**3-161**
IDC	I	03 05 11 51.8–1.9	38.66S	73.91W	0	3.9,3.8b		¶17189295
ISCJB	I	03 05 11 55.3–1.6	38.7S–.20	74.0W–.40	33	3.7b,3.8b		

ISC Event type ke.
ISCJB Event type ke.

IDC	**I**	**03 05 50 12.8–5.1**	**38.46S**	**73.75W**	**0**	**3.4,3.3**		

¶17189297

IDC Error ellipse: s-maj=130.6km s-min=21.1km az=59.0.

ISC	**I**	**03 06 41 11.5–1.3**	**38.5S–.10**	**73.6W–.20**	**10**	**3.6b**	**13**	**3-124**
ISCJB	I	03 06 41 09.9–.97	38.56S–.09	73.7W–.10	10	3.5b		¶17189299
IDC	I	03 06 41 09.7–1.5	38.54S	73.55W	0	3.8,3.7		
SJA	I	03 06 42 14.6–.75	34.64S	70.37W	183–16	2.9W,2.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=12.5km az=13.1.
IDC Error ellipse: s-maj=38.5km s-min=18.0km az=52.0.
SJA Error ellipse: s-maj=17.6km s-min=16.9km az=-1.0.

ISC	**I**	**03 06 43 57.8–.78**	**38.59S–.04**	**73.9W–.10**	**35**	**4.0b,3.7s**	**26**	**0-161**
NEIC	I	03 06 43 52.0	38.56S	74.01W	14	4.6L,3.7s		¶16031082
GUC	I	03 06 43 52.9–.55	38.56S	74.01W	14–2	4.6L,3.7s		
IDC	I	03 06 43 54.6–.98	38.30S	73.59W	0	4.1,4.0		
ISCJB	I	03 06 43 56.8–.66	38.55S–.05	73.8W–.10	33	4.0b,3.6s		

ISC Event type se.
NEIC Event type se. After GUC.
ISCJB Event type se.

IDC	**I**	**03 07 04 00.0–7.1**	**38.27S**	**73.67W**	**0**	**3.8b,3.6**		

¶17189302

IDC Error ellipse: s-maj=202.5km s-min=26.0km az=58.0.

GUC	**I**	**03 22 59 49.9–.36**	**34.76S**	**72.05W**	**24–3**	**3.5L**		

¶601516021

GUC Error ellipse: s-maj=0.8km s-min=1.7km az=-1.0.

ISC	**I**	**03 23 26 35.0–2.1**	**38.42S–.04**	**73.9W–.10**	**25–14**	**3.8b**	**21**	**1-161**
IDC	I	03 23 26 30.5–1.6	38.53S	74.07W	0	4.0,3.9		¶16031091
NEIC	I	03 23 26 33.0	38.39S	73.98W	12	4.1L,3.9		
GUC	I	03 23 26 33.0–.34	38.39S	73.98W	12–1	4.1L,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=46.0km s-min=19.0km az=45.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=0.8km s-min=3.2km az=-1.0.

ISC	**I**	**04 15 33 06.5–2.9**	**32.88S–.06**	**71.5W–.20**	**13–12**		**20**	**0-5**
GUC	I	04 15 33 04.8–.49	32.86S	71.71W	5–6	3.1L		¶601516027
SJA	I	04 15 33 06.9–.69	33.06S	71.47W	33	2.9L,2.4W		

ISC Event type ke.
GUC Error ellipse: s-maj=10.4km s-min=5.0km az=-1.0.
SJA Error ellipse: s-maj=13.2km s-min=6.7km az=-1.0.

ISC	**I**	**04 17 41 48.0–.83**	**37.9S–.10**	**73.8W–.20**	**18**	**4.0b**	**14**	**4-160**
IDC	I	04 17 41 44.9–.77	37.90S	73.98W	0	4.2,4.0		¶17189442

ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=17.4km az=69.0.

ISC	**I**	**04 21 04 31.8–2.4**	**32.74S–.05**	**71.64W–.10**	**9–15**		**27**	**1-7**
ISCJB	I	04 21 04 31.1–1.4	32.78S–.05	71.75W–.08	7–7			¶601516029
SJA	I	04 21 04 31.6–1.1	32.64S	71.62W	10–39	3.7L,3.3W		
GUC	I	04 21 04 32.1–.54	32.73S	71.62W	12–3	3.7L,3.3W		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=6.9km az=151.2.
SJA Error ellipse: s-maj=13.5km s-min=44.6km az=-1.0.
GUC Error ellipse: s-maj=5.1km s-min=2.8km az=-1.0.

ISC	**I**	**04 21 12 33.4–1.2**	**34.55S–.05**	**71.91W–.05**	**16–8**	**3.7b**	**23**	**0-126**
IDC	I	04 21 12 31.0–.97	34.60S	71.70W	0	4.0L,3.9		¶17189454
ISCJB	I	04 21 12 33.2–.71	34.54S–.04	72.08W–.06	23–4	3.9s,3.7b		
GUC	I	04 21 12 34.0–.35	34.51S	72.11W	22–1	4.0L,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=18.6km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.3km az=26.5.
GUC Error ellipse: s-maj=0.9km s-min=1.6km az=-1.0.

GUC	**I**	**05 03 55 28.4–.48**	**38.56S**	**73.47W**	**46–1**	**3.9L**		

¶601516034

GUC Error ellipse: s-maj=1.3km s-min=33.4km az=-1.0.

ISC	**I**	**05 07 04 59.4–1.9**	**38.25S–.04**	**73.7W–.10**	**14–10**	**4.1b**	**21**	**1-160**
ISCJB	I	05 07 05 00.6–1.5	38.29S–.04	73.6W–.20	27–9	4.0b		¶16032746
NEIC	I	05 07 05 00.0	38.28S	73.50W	26	4.2L		
GUC	I	05 07 05 00.7–.57	38.28S	73.50W	26–4	4.2L		
IDC	I	05 07 05 12.6–3.2	38.29S	71.58W	75–31	4.1s,4.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=24.1km s-min=5.6km az=5.7.
NEIC Event type fe. Felt [III] at Angol, Curanilahue, La Laja, Mulchen, Nacimiento, Santa Barbara and Tirua; [II] at Arauco, Lebu and Puren. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=10.0km az=-1.0.
IDC Error ellipse: s-maj=53.4km s-min=25.8km az=75.0.

GUC	**I**	**05 08 17 05.7–.55**	**35.12S**	**72.78W**	**8–7**	**3.6L**		

¶601516039

GUC Error ellipse: s-maj=4.8km s-min=8.2km az=-1.0.

ISC	**I**	**05 19 35 01.8–2.0**	**32.99S–.05**	**71.15W–.09**	**64–9**		**50**	**0-6**
SJA	I	05 19 34 59.5–1.4	32.92S	71.17W	74–6	3.4W,3.2L		¶601516045
ISCJB	I	05 19 35 00.3–.92	33.00S–.05	71.20W–.07	74–6	3.4W,3.2L		
GUC	I	05 19 35 01.0–.33	32.95S	71.06W	67–2	4.4L,3.2L		

ISC Event type ke.
SJA Error ellipse: s-maj=9.5km s-min=10.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.2km az=26.1.
GUC Error ellipse: s-maj=2.1km s-min=2.9km az=-1.0.

IDC	**I**	**05 23 23 04.3–7.1**	**36.67S**	**72.78W**	**0**	**3.7,3.7**		

¶17189552

IDC Error ellipse: s-maj=205.0km s-min=22.0km az=79.0.

ISC	**I**	**06 02 08 08.7–.72**	**38.54S–.07**	**73.6W–.10**	**18**	**4.2b**	**31**	**3-171**
IDC	I	06 02 08 05.9–.79	38.63S	73.60W	0	4.3L,4.2		¶15977971
ISCJB	I	06 02 08 07.4–.67	38.50S–.06	73.6W–.10	18	4.2b,3.4s		
NEIC	I	06 02 08 11.0–.45	38.56S	73.60W	35	4.2b,3.4s		

ISC Event type se.
IDC Error ellipse: s-maj=27.7km s-min=17.6km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=9.1km az=171.8.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=8.0km az=78.0.

ISC	**I**	**07 03 32 33.6–.53**	**38.50S–.04**	**73.9W–.10**	**35**	**4.3b,3.6s**	**57**	**1-161**
IDC	I	07 03 32 29.5–.63	38.52S	73.73W	0	4.5L,4.3		¶15981221
NEIC	I	07 03 32 31.0	38.53S	73.66W	30	4.4L,4.4b		
GUC	I	07 03 32 31.5–.69	38.53S	73.66W	30–5	4.4L,4.4b		
ISCJB	I	07 03 32 32.5–.36	38.52S–.03	73.70W–.09	33	4.2b,3.7s		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Puerto Saavedra, Temuco and Tolten; [III] at Pucon; [II] at Lanco and Tirua. After GUC.
ISCJB Event type fe.

ISC	**I**	**07 09 05 52.1–3.2**	**32.20S–.05**	**71.8W–.10**	**14–21**		**24**	**1-155**
IDC	I	07 09 05 49.9–2.1	32.14S	71.89W	0	3.9L,3.8		¶17189629
GUC	I	07 09 05 54.1–.56	32.27S	71.82W	18–14	3.9L,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=74.1km s-min=31.7km az=97.0.
GUC Error ellipse: s-maj=5.2km s-min=6.2km az=-1.0.

ISC	**I**	**07 09 27 12.9–3.2**	**38.22S–.09**	**73.5W–.40**	**10**		**10**	**3-22**
IDC	I	07 09 27 12.0–5.4	38.28S	73.46W	0	4.3L,4.0		¶17189631
SJA	I	07 09 27 43.4–1.1	36.39S	71.89W	66–999	3.5W,3.2L		

ISC Event type ke.
IDC Error ellipse: s-maj=97.0km s-min=20.1km az=67.0.
SJA Error ellipse: s-maj=646.6km s-min=538.7km az=-1.0.

ISC	**I**	**07 10 14 55.1–1.0**	**35.62S–.05**	**72.7W–.10**	**20**	**4.0b**	**15**	**3-85**
IDC	I	07 10 14 51.6–1.2	35.66S	73.11W	0	3.9,3.9b		¶17189636

ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=20.5km az=90.0.

ISC	**I**	**07 11 48 08.5–.70**	**36.80S–.05**	**73.63W–.08**	**14**	**4.2b,3.9s**	**49**	**1-160**
IDC	I	07 11 48 06.5–.88	36.89S	73.47W	0	4.4L,4.3		¶15930115
ISCJB	I	07 11 48 07.7–.56	36.82S–.04	73.52W–.07	14	4.1b,3.9s		
NEIC	I	07 11 48 09.0	36.82S	73.67W	34	4.6L,3.9s		
GUC	I	07 11 48 09.2–.53	36.82S	73.67W	34–8	4.6L,3.9s		

ISC Event type fe.
IDC Error ellipse: s-maj=29.5km s-min=19.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.8km az=13.0.
NEIC Event type fe. Felt [IV] at Puerto Saavedra and Tirua; [III] at Angol, Arauco, Chiguayante, Concepcion, Coronel, Lota, Penco, Renaico, San Pedro de la Paz, Talcahuano and Tolten; [II] at Carahue and La Laja. After GUC.
GUC Error ellipse: s-maj=4.6km s-min=8.0km az=-1.0.

GUC	**I**	**08 01 04 23.1–.62**	**33.94S**	**71.51W**	**48–6**	**3.5L**		

¶601516073

GUC Error ellipse: s-maj=4.1km s-min=4.2km az=-1.0.

GUC	**I**	**08 08 25 01.5–.59**	**34.59S**	**72.13W**	**25–5**	**3.9L**		

¶601516078

GUC Error ellipse: s-maj=1.8km s-min=3.7km az=-1.0.

ISC	**I**	**09 01 09 58.1–.35**	**38.27S–.04**	**73.19W–.08**	**25**	**4.7b,4.0s**	**483**	**1-176**
IDC	I	09 01 09 53.5–.66	38.17S	73.13W	0	4.6L,4.5		¶15927194
GUC	I	09 01 09 55.3–.41	38.26S	73.53W	36–2	4.8L,4.5		
ISCJB	I	09 01 09 57.0–.15	38.27S–.02	72.99W–.05	25	4.7b,4.0s		
NEIC	I	09 01 09 59.2–.30	38.21S	73.22W	34	4.8L,4.8b		
BJI	I	09 01 10 01.4	38.20S	73.20W	34	5.4s,5.3		

ISC Event type fe.
IDC Error ellipse: s-maj=23.4km s-min=12.4km az=71.0.
GUC Error ellipse: s-maj=0.8km s-min=6.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.8km az=10.8.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.1km az=55.0. Felt [IV] at Curanilahue, Lebu, Puerto Saavedra, Tirua and Tolten; [III] at Angol, Chiguayante, Concepcion, Padre Las Casas, Penco, Santa Juana, Talcahuano and Temuco. Felt in much of Araucania, Bio-Bio and Los Rios.

GUC	**I**	**09 07 50 23.7–.44**	**38.76S**	**73.48W**	**6–2**	**3.7L**		

¶601516095

GUC Error ellipse: s-maj=0.9km s-min=10.2km az=-1.0.

ISC	**I**	**09 16 27 23.7–.78**	**38.31S–.05**	**73.5W–.10**	**18**	**4.1b**	**36**	**1-147**
GUC	I	09 16 27 19.1–.51	38.35S	74.16W	6–7	4.5L		¶15994803
IDC	I	09 16 27 21.4–1.0	38.38S	73.39W	0	4.6L,4.2		
ISCJB	I	09 16 27 22.7–.64	38.30S–.04	73.4W–.10	18	4.1b,3.5s		
NEIC	I	09 16 27 28.4–2.1	38.29S	73.41W	51–18	4.3b,3.5s		

ISC Event type se.
GUC Error ellipse: s-maj=1.4km s-min=14.7km az=-1.0.
IDC Error ellipse: s-maj=34.7km s-min=19.4km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=5.1km az=5.0.
NEIC Event type se. Error ellipse: s-maj=23.9km s-min=10.5km az=88.0.

GUC	**I**	**09 21 26 04.4–.52**	**34.87S**	**72.52W**	**32–3**	**3.6L**		

¶601516102

GUC Error ellipse: s-maj=2.5km s-min=4.1km az=-1.0.

GUC	**I**	**10 11 29 02.9–.37**	**36.51S**	**73.22W**	**14–2**	**3.5L**		

¶601516118

GUC Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**I**	**10 14 26 00.0–2.0**	**35.54S–.09**	**72.3W–.30**	**35**		**11**	**3-71**
IDC	I	10 14 25 59.9–1.4	35.93S	72.71W	0	4.0b,3.8		¶17189859

ISC Event type ke.
IDC Error ellipse: s-maj=80.7km s-min=19.7km az=78.0.

SJA	**I**	**10 21 06 27.5–.98**	**33.32S**	**71.41W**	**10**	**3.5**		

¶601891042

SJA Error ellipse: s-maj=27.1km s-min=33.5km az=-1.0.

ISC	**I**	**11 04 44 39.1–1.8**	**36.02S–.05**	**73.11W–.06**	**4–12**	**3.9b**	**33**	**0-86**
ISCJB	I	11 04 44 38.3–1.2	36.01S–.03	73.19W–.06	10–7	4.4s,3.8b		¶15994818
IDC	I	11 04 44 38.6–1.3	35.95S	72.79W	0	4.0,3.9L		
NEIC	I	11 04 44 40.0	36.06S	73.10W	28	4.3L,3.9L		
GUC	I	11 04 44 40.2–.45	36.06S	73.10W	28–2	4.3L,3.9L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.3km az=7.7.
IDC Error ellipse: s-maj=40.0km s-min=29.3km az=76.0.
NEIC Event type fe. Felt [III] at Cauquenes, Chanco and Cobquecura; [II] at Longavi and Talca. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**I**	**11 05 33 33.1–.40**	**35.79S–.04**	**72.64W–.07**	**35**	**4.8b,4.8s**	**110**	**0-177**
GUC	I	11 05 33 23.3–.45	35.69S	73.46W	25–2	5.2L,4.8s		¶15917547
IDC	I	11 05 33 24.0–.64	35.79S	73.20W	0	4.7,4.7s		
ISCJB	I	11 05 33 31.3–.27	35.97S–.03	72.38W–.06	33	4.8b,4.7s		
NEIC	I	11 05 33 33.9–.48	35.62S	71.94W	35	5.2L,5.0b		
GCMT	I	11 05 33 33.9–.50	35.33S	72.08W	12	5.1W,5.0b		

ISC Event type fe.
GUC Error ellipse: s-maj=0.9km s-min=2.2km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=13.8km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=27.5.
NEIC Event type fe. Error ellipse: s-maj=14.8km s-min=12.1km az=76.0. Felt [IV] at Cauquenes, Concepcion, Constitucion, Longavi, Talca and Tome; [III] at Chiguayante, La Laja, San Pedro de la Paz and San Rosendo; [II] at Curico, Paredones, Pichilemu, Rancagua, San Fernando, Santa Cruz and Talcahuano. Also felt at Chillan, Linares and Rengo.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c37; s45,c64; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.97±.13 $M_{\theta\theta}$0.47±.11; $M_{\phi\phi}$-2.44±.12; $M_{r\theta}$-0.94±.35; $M_{\theta\phi}$1.40±.09; $M_{\phi r}$4.85±.30; Best double couple: NP1:ϕ_s349.00000°,δ77.00000°,λ98.00000°. NP2:ϕ_s138.00000°,δ15.00000°,λ60.00000°. Principal axes: T 5.0930,Plg57.0000°,Azm269.0000°; N 0.9110,Plg7.0000°,Azm167.0000° ; P -6.0020,Plg32.0000°,Azm73.0000° $M_0$5.54800×10^{16}

ISC	**I**	**12 04 14 43.8–1.8**	**36.23S–.04**	**73.75W–.07**	**9–11**	**4.2b,3.9s**	**43**	**1-86**
NEIC	I	12 04 14 42.0	36.24S	73.78W	21	4.8L,3.9s		¶15940509
GUC	I	12 04 14 42.9–.32	36.24S	73.78W	21–2	4.8L,3.9s		
IDC	I	12 04 14 43.2–1.1	36.25S	73.45W	0	4.0L,3.9		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Cobquecura; [III] at Chiguayante, Concepcion, Hualpen, San Pedro de la Paz, Talcahuano and Tome; [II] at Cauquenes, Linares and Parral. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=30.9km s-min=16.9km az=82.0.

ISC	**I**	**12 06 38 02.3–.41**	**36.30S–.04**	**73.45W–.06**	**27**	**4.8b,3.9s**	**115**	**1-178**
IDC	I	12 06 37 58.5–.60	36.24S	73.43W	0	4.6,4.5L		¶15919552
GUC	I	12 06 37 59.7–.46	36.31S	73.65W	36–2	4.6L,4.5L		
BJI	I	12 06 38 00.9	35.67S	73.33W	30	5.5s,5.4		
ISCJB	I	12 06 38 01.0–.25	36.29S–.03	73.43W–.04	27	4.8b,3.9s		
NEIC	I	12 06 38 04.5–.98	36.26S	73.26W	40–8	4.8b,3.9s		

ISC Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=13.0km az=85.0.
GUC Error ellipse: s-maj=1.4km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=8.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=5.9km az=78.0. Felt [IV] at Concepcion and Coronel; [III] at Penco, San Pedro de la Paz and Talcahuano; [II] at Parral, San Javier and Tome.

GUC	**I**	**12 10 57 31.1–.29**	**38.34S**	**73.98W**	**17–4**	**4.0L**		

¶601516152

GUC Error ellipse: s-maj=0.7km s-min=7.6km az=-1.0.

ISC	**I**	**12 16 29 07.0–2.1**	**28.66S–.06**	**71.3W–.10**	**29–18**		**13**	**1-5**
GUC	I	12 16 29 06.1–.71	28.66S	71.28W	25–10	3.8L		¶601996243
ISCJB	I	12 16 29 07.1–2.6	28.60S–.05	71.4W–.10	11–12	3.8L		

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**12 17 55 01.9–.79**	**34.72S–.05**	**72.66W–.07**	**10**	**4.0b,4.0s**	**35**	**1-85**
ISCJB	I	12 17 55 00.7–.55	34.71S–.03	72.75W–.06	10	4.0s,3.9b		¶15940510
IDC	I	12 17 55 00.9–1.0	34.71S	72.75W	0	4.5L,4.2		
GUC	I	12 17 55 01.9–.53	34.72S	72.73W	32–3	4.6L,4.2		
NEIC	I	12 17 55 05.8–.89	34.69S	72.67W	35	4.6L,4.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.3km az=15.8.
IDC Error ellipse: s-maj=36.8km s-min=20.5km az=94.0.
GUC Error ellipse: s-maj=2.1km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.4km s-min=11.5km az=87.0. Felt [III] at Constitucion and Pichilemu; [II] at Iloca, Rancagua, San Fernando and Talca.

ISC	**I**	**12 20 19 05.2–1.6**	**33.62S–.05**	**71.98W–.09**	**16–16**		**30**	**1-7**
GUC	I	12 20 19 04.7–.60	33.58S	72.01W	12–6	3.1L		¶601516162

ISC Event type ke.
GUC Error ellipse: s-maj=3.0km s-min=5.1km az=-1.0.
ISC I 12 23 47 32.6–1.3 34.35S–.05 71.9W–.10 31–12 22 0-6
ISCJB I 12 23 47 31.7–1.3 34.35S–.05 72.0W–.10 41–11 **¶601516165**
GUC I 12 23 47 31.7–.61 34.32S 71.86W 42–3 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=8.7km az=3.4.
GUC Error ellipse: s-maj=1.9km s-min=4.1km az=-1.0.
IDC I 13 00 13 06.1–4.6 38.11S 73.94W 0 3.9,3.9L
¶17190025
IDC Error ellipse: s-maj=93.4km s-min=21.5km az=64.0.
ISC I 13 01 54 32.9–1.6 34.71S–.04 71.88W–.06 9–13 26 0-6
ISCJB I 13 01 54 33.4–.87 34.75S–.05 71.90W–.07 28–6 **¶601516166**
GUC I 13 01 54 33.7–.54 34.72S 71.86W 39–1 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.4km az=166.0.
GUC Error ellipse: s-maj=1.6km s-min=2.5km az=-1.0.
ISC I 13 13 43 31.9–2.2 34.78S–.08 72.0W–.10 25–14 31 0-7
GUC I 13 13 43 33.0–.69 34.68S 71.82W 39–6 3.5L **¶601516169**
ISC Event type ke.
GUC Error ellipse: s-maj=4.6km s-min=5.8km az=-1.0.
ISC I 15 11 31 43.5–1.1 38.62S–.06 73.8W–.10 10 4.4b 21 0-161
ISCJB I 15 11 31 41.6–.95 38.56S–.05 74.0W–.10 10 4.0b **¶16031146**
IDC I 15 11 31 42.1–2.1 38.67S 73.92W 0 4.1,4.1b
GUC I 15 11 31 46.4–.33 38.63S 73.46W 47–1 4.4L,4.1b
NEIC I 15 11 31 47.6–1.1 38.53S 73.86W 35 4.4,4.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=5.8km az=163.4.
IDC Error ellipse: s-maj=56.4km s-min=18.4km az=59.0.
GUC Error ellipse: s-maj=1.0km s-min=12.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=24.9km s-min=12.2km az=72.0. Felt [III] at Tolten.
ISC I 15 23 04 11.0–1.4 35.35S–.06 72.3W–.20 10 13 3-71
IDC I 15 23 04 08.8–1.6 35.51S 72.32W 0 3.7,3.5L **¶17190278**
ISC Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=20.8km az=82.0.
ISC I 16 05 19 49.7–1.0 38.55S–.07 73.8W–.10 10 3.5b 19 0-161
NEIC I 16 05 19 39.0 39.08S 74.92W 29 4.7L,4.4b **¶16151536**
GUC I 16 05 19 39.3–.30 39.08S 74.93W 29–15 4.7L,4.4b
ISCJB I 16 05 19 48.9–1.1 38.54S–.09 73.9W–.20 10 3.7b,4.4b
IDC I 16 05 19 48.7–1.7 38.59S 73.73W 0 4.0,3.8L
ISC Event type fe.
NEIC Event type fe. Felt [II] at Angol, Canete, Padre Las Casas, Puerto Saavedra, Renaico, Temuco, Tirua and Tolten. After GUC.
GUC Error ellipse: s-maj=13.6km s-min=5.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=18.7km s-min=10.2km az=153.7.
IDC Error ellipse: s-maj=56.7km s-min=18.4km az=44.0.
ISC I 16 14 50 56.1–2.2 34.16S–.04 72.43W–.06 1–13 4.4b,3.8s 62 0-166
IDC I 16 14 50 56.0–.72 34.13S 72.44W 0 4.3,4.2 **¶15940534**
GUC I 16 14 50 57.8–.38 34.19S 72.44W 33–2 4.3L,4.2
ISCJB I 16 14 50 58.0–1.4 34.15S–.03 72.55W–.05 15–9 4.2b,4.0s
NEIC I 16 14 50 59.8–2.1 34.09S 72.45W 23–14 4.7b,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=16.0km az=82.0.
GUC Error ellipse: s-maj=1.5km s-min=3.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=24.1.
NEIC Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=81.0. Felt [II] at Constitucion and Rancagua.
ISC I 16 16 13 15.0–2.0 34.11S–.04 72.47W–.08 6–12 4.2b 54 0-166
IDC I 16 16 13 13.7–.95 34.21S 72.37W 0 4.2,4.0 **¶16009117**
GUC I 16 16 13 14.3–.26 34.24S 72.55W 22–8 4.3L,4.0
NEIC I 16 16 13 18.8–3.2 34.12S 72.41W 33–22 4.3L,4.0b
ISC Event type fe.
IDC Error ellipse: s-maj=33.7km s-min=19.8km az=89.0.
GUC Error ellipse: s-maj=3.0km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=19.1km s-min=9.7km az=86.0. Felt [III] at Pichilemu and [II] at Curico, Paredones, Parral and Rancagua.
GUC I 16 18 52 33.7–.42 36.14S 73.74W 38–2 3.5L
¶601516200
GUC Error ellipse: s-maj=2.0km s-min=3.8km az=-1.0.
ISC I 16 23 47 55.8–1.2 34.87S–.04 71.87W–.05 29–11 26 0-6
GUC I 16 23 47 54.0–.33 34.86S 71.87W 48–1 3.9L **¶601516204**
ISCJB I 16 23 47 55.4–.72 34.88S–.04 71.91W–.06 30–5 3.9L
ISC Event type ke.
ISCJB Event type ke.
GUC I 17 00 01 14.7–.40 36.60S 73.41W 7–8 3.5L
¶601516205
GUC Error ellipse: s-maj=1.2km s-min=9.3km az=-1.0.
GUC I 17 18 34 31.3–.40 36.24S 73.52W 8–4 4.1L
¶601516220
GUC Error ellipse: s-maj=1.3km s-min=3.2km az=-1.0.
ISC I 17 18 53 29.4–.62 34.69S–.04 71.83W–.07 46–4 4.6b,4.5s 89 1-176
IDC I 17 18 53 22.4–.69 34.75S 71.74W 0 5.1L,4.5 **¶15954488**
ISCJB I 17 18 53 28.9–.86 34.78S–.04 71.84W–.10 59–6 4.7b,4.2s
GUC I 17 18 53 28.2–.43 34.70S 71.83W 38–5 4.8L,4.2s
BJI I 17 18 53 30.2 34.60S 71.70W 42 5.6s,5.5
NEIC I 17 18 53 30.0–.36 34.62S 71.79W 51 5.0b,5.5
ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=22.0km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.7km az=3.6.
GUC Error ellipse: s-maj=3.1km s-min=3.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=8.2km az=71.0. Felt [IV] at Cauquenes, Chanco, Constitucion, Curico, Empedrado, Iloca, Linares, Molina, Pelluhue, Pichilemu, Rio Claro, Romeral, Santa Cruz and Talca; [III] at Graneros, Litueche, Lolol, Navidad, Paredones, Rancagua, Rengo, San Fernando and Santiago; [II] at Concepcion, San Antonio, San Bernardo and Tiltil. Also felt at Talagante and Valparaiso.
ISC I 17 23 29 51.0–.27 30.31S–.03 71.26W–.05 68–1 5.1b 625 0-176
MOS I 17 23 29 48.0–1.1 30.29S 71.28W 53 4.8b **¶15933577**
GUC I 17 23 29 49.7–.87 30.32S 71.51W 65–15 5.3L
NEIC I 17 23 29 49.0 30.32S 71.51W 65 5.1b
GCMT I 17 23 29 49.0–.30 30.51S 71.62W 90–5 5.0W
ISCJB I 17 23 29 49.6–.49 30.29S–.02 71.23W–.05 70–4 5.0b
IDC I 17 23 29 50.9–.33 30.31S 71.22W 70–2 4.7,4.6
BJI I 17 23 29 52.7 30.20S 71.20W 65 5.6s,5.4
ISC Event type fe.
MOS Error ellipse: s-maj=19.8km s-min=11.9km az=86.4.
GUC Error ellipse: s-maj=2.6km s-min=21.6km az=-1.0.
NEIC Event type fe. Felt [V] at Andacollo, Coquimbo, La Higuera, La Serena, Monte Patria, Ovalle and Rio Hurtado; [IV] at Paiguano, Punitaqui and Vicuna; [III] at Combarbala; [II] at Canela, Copiapo, Illapel, Salamanca and Tierra Amarilla. Also felt at Santiago and Vina del Mar. After GUC.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s71,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.20±.17 $M_{\theta\theta}$-1.11±.17; $M_{\phi\phi}$2.32±.21; $M_{r\theta}$0.89±.08; $M_{\theta\phi}$0.47±.16; $M_{\phi r}$-3.71±.11; Best double couple: NP1:ϕ_s345.00000°,δ79.00000° ,λ-106.00000°. NP2:ϕ_s223.00000°,δ19.00000°,λ-34.00000°. Principal axes: T 4.6680,Plg32.0000°,Azm89.0000°; N -0.7510,Plg16.0000°,Azm348.0000° ; P -3.9070,Plg53.0000°,Azm236.0000° M_o4.28700×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=175.4.
IDC Error ellipse: s-maj=12.1km s-min=10.9km az=99.0.
ISC I 18 05 04 29.8–2.3 30.93S–.04 71.82W–.09 1–16 21 1-3
ISCJB I 18 05 04 33.9–1.8 30.90S–.04 71.9W–.10 11–13 **¶601996248**
GUC I 18 05 04 33.1–.51 30.92S 71.65W 14–4 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=6.2km az=7.4.
GUC Error ellipse: s-maj=1.2km s-min=5.1km az=-1.0.
GUC I 19 09 00 15.5–.53 34.03S 72.28W 24–3 3.6L
¶601516239
GUC Error ellipse: s-maj=1.8km s-min=3.4km az=-1.0.
ISC I 19 15 07 32.6–1.3 38.41S–.04 73.5W–.10 28–10 3.9b 18 0-145
IDC I 19 15 07 28.0–2.1 38.49S 73.63W 0 4.6L,4.1 **¶16151859**
NEIC I 19 15 07 29.3–1.6 38.49S 73.71W 10 4.2L,4.1
GUC I 19 15 07 30.4–.41 38.37S 73.62W 13–4 4.2L,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=53.8km s-min=16.2km az=57.0.
NEIC Event type fe. Error ellipse: s-maj=43.0km s-min=16.0km az=70.0. Felt [III] at Canete and Tirua.
GUC Error ellipse: s-maj=0.8km s-min=6.3km az=-1.0.
ISC I 20 17 38 50.2–.99 38.55S–.05 73.8W–.10 35 3.8b,3.8s 16 0-161
IDC I 20 17 38 44.1–1.6 38.77S 74.11W 0 4.2L,4.0 **¶17190635**
GUC I 20 17 38 46.4–.72 38.50S 73.96W 30–11 4.5L,4.0
ISCJB I 20 17 38 48.6–.88 38.52S–.04 73.8W–.10 33 3.8b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC I 21 02 00 01.9–.71 37.57S–.06 73.7W–.10 35 4.2b 32 1-170
ISCJB I 21 01 59 59.7–.68 37.67S–.05 73.7W–.10 33 4.4b,3.6s **¶16032942**
NEIC I 21 01 59 59.0 37.39S 74.02W 45 4.1b,3.6s
GUC I 21 01 59 59.4–.59 37.39S 74.02W 45–4 4.4L,3.6s
IDC I 21 02 00 00.5–6.0 37.60S 73.46W 20–36 4.3L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.2km az=16.4.
NEIC Event type fe. Felt [V] at Curanilahue, Lebu and Los Alamos; [III] at Concepcion, Coronel, Nacimiento and Penco; [II] at La Laja, Los Angeles, Mulchen, San Rosendo, Santa Barbara and Tirua. After GUC.
GUC Error ellipse: s-maj=12.3km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=33.1km s-min=19.1km az=71.0.
ISC I 21 03 30 10.9–6.3 29.98S–.04 71.6W–.10 37–7 26 1-6
ISCJB I 21 03 30 08.6–1.6 29.98S–.03 71.62W–.09 21–10 **¶601516263**
GUC I 21 03 30 08.5–.77 29.98S 71.58W 35–6 3.5L
SJA I 21 03 30 10.8–.77 30.11S 71.48W 33 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=5.6km az=0.3.
GUC Error ellipse: s-maj=3.0km s-min=8.4km az=-1.0.
SJA Error ellipse: s-maj=3.4km s-min=7.4km az=-1.0.
GUC I 21 10 05 53.5–.61 34.81S 71.89W 42–2 4.1L
¶601516267
GUC Error ellipse: s-maj=1.5km s-min=2.4km az=-1.0.
ISC I 21 10 25 14.2–.67 38.12S–.04 73.7W–.10 10 4.7b,3.7s 46 1-177
IDC I 21 10 25 12.9–1.2 38.12S 73.75W 0 4.2,4.1L **¶15957991**
GUC I 21 10 25 13.7–.63 38.12S 73.98W 39–5 4.7W,4.2L
ISCJB I 21 10 25 17.7–.36 38.36S–.05 72.64W–.09 10 4.6b,3.7s
NEIC I 21 10 25 22.4–4.3 37.69S 71.91W 18–26 4.8b,4.2L
BJI I 21 10 25 25.9 37.80S 72.00W 36 5.4,5.4s
ISC Event type se.
IDC Error ellipse: s-maj=39.1km s-min=17.3km az=56.0.
GUC Error ellipse: s-maj=1.5km s-min=9.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=5.5km az=29.7.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=10.1km az=61.0.
ISC I 21 11 43 32.2–2.3 34.70S–.06 72.23W–.10 10–13 3.8b 21 0-153
IDC I 21 11 43 30.5–.93 34.65S 72.20W 0 3.9,3.8L **¶17190675**
GUC I 21 11 43 34.2–.47 34.76S 72.26W 21–6 3.9L,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=40.8km s-min=21.9km az=93.0.
GUC Error ellipse: s-maj=1.9km s-min=3.6km az=-1.0.
GUC I 22 12 35 53.5–.40 32.29S 71.67W 40–2 3.6L
¶601516283
GUC Error ellipse: s-maj=5.9km s-min=5.8km az=-1.0.
ISC I 22 17 51 10.8–.79 37.16S–.07 73.87W–.10 35 4.0s,4.0b 23 1-158
IDC I 22 17 51 06.3–1.2 37.20S 73.78W 0 4.2,4.0 **¶16152116**
ISCJB I 22 17 51 08.1–.73 37.28S–.06 73.95W–.09 33 4.1s,3.9b
NEIC I 22 17 51 08.0 37.09S 74.07W 35 4.7L,4.3b
GUC I 22 17 51 08.3–.61 37.09S 74.07W 35–3 4.7L,4.3b
ISC Event type fe.
IDC Error ellipse: s-maj=36.3km s-min=19.1km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.9km az=29.9.
NEIC Event type fe. Felt [IV] at Coronel; [III] at Canete, Curanilahue and San Pedro de La Paz; [II] at Cauquenes, Chanco, Lebu and Los Alamos. After GUC.
GUC Error ellipse: s-maj=11.9km s-min=5.7km az=-1.0.
ISC I 22 18 33 40.9–.85 34.67S–.04 71.72W–.06 52–7 4.2b 32 0-157
ISCJB I 22 18 33 40.0–.47 34.66S–.04 71.75W–.07 64–4 4.0b **¶16152117**
NEIC I 22 18 33 41.0 34.69S 71.69W 46 4.4
GUC I 22 18 33 41.7–.46 34.69S 71.69W 46–2 4.4L
IDC I 22 18 33 42.1–3.6 34.60S 71.36W 52–31 4.0,3.9L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.7km az=17.4.
NEIC Event type fe. Felt [IV] at Romeral; [III] at Curico, Molina, Rio Claro and Talca; [II] at Iloca, Lolol, Navidad, Paredones, Pichilemu, Rancagua, Rengo, San Fernando and Santa Cruz. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=43.3km s-min=25.5km az=84.0.
GUC I 22 20 05 08.0–.52 36.50S 73.41W 5–4 3.6L
¶601516288
GUC Error ellipse: s-maj=1.7km s-min=5.8km az=-1.0.
GUC I 23 03 12 14.8–.60 38.10S 73.19W 47–8 3.5L
¶601516291
GUC Error ellipse: s-maj=2.4km s-min=20.9km az=-1.0.
ISC I 23 06 21 45.8–2.8 32.05S–.05 71.85W–.09 1–16 4.2b 48 1-164
IDC I 23 06 21 46.1–.84 31.98S 71.73W 0 4.2,4.1L **¶16135578**
NEIC I 23 06 21 48.0 32.03S 71.85W 22 4.5L,4.5b
GUC I 23 06 21 48.3–.62 32.03S 71.85W 22–5 4.5L,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=24.2km az=98.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=7.3km az=-1.0.
ISC I 23 09 58 58.2–.63 35.04S–.04 72.51W–.05 25–4 5.1b,4.2s 569 1-173
GUC I 23 09 58 55.5–.67 35.03S 72.57W 26–3 5.4L,4.2s **¶15959243**
ISCJB I 23 09 58 56.8–.95 35.03S–.03 72.53W–.04 26–6 5.0b,4.1s
MOS I 23 09 58 57.8–.99 35.03S 72.44W 33 5.1b,4.1s
NEIC I 23 09 58 59.9–.16 35.00S 72.38W 35 5.4L,5.1b
BJI I 23 09 58 59.2 34.90S 72.30W 20 5.4s,5.2
IDC I 23 09 58 59.0–.56 35.01S 72.48W 30–3 4.8L,4.5
ISC Event type fe.
GUC Error ellipse: s-maj=2.0km s-min=3.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=10.4.
MOS Error ellipse: s-maj=18.9km s-min=8.1km az=101.9.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=62.0. Felt [V] at Constitucion; [IV] at Cauquenes, Cobquecura, Empedrado, Longavi, Molina, Parral, Retiro, Rio Claro, San Javier and Talca; [III] at Chanco, Curico, Paredones and Santiago. Felt in much of central Chile from Vina del Mar to Tome.
IDC Error ellipse: s-maj=19.3km s-min=13.2km az=68.0.
ISC I 23 23 36 26.5–2.2 35.10S–.05 72.45W–.08 30–15 3.8b 27 1-167
IDC I 23 23 36 22.1–.99 35.11S 72.45W 0 4.4L,4.2 **¶16135640**
ISCJB I 23 23 36 25.9–.79 35.12S–.04 72.44W–.09 37–9 3.9b,4.2
NEIC I 23 23 36 27.0 35.11S 72.41W 39 4.3,4.2
GUC I 23 23 36 27.0–.39 35.11S 72.41W 39–2 4.3L,4.2
ISC Event type se.
IDC Error ellipse: s-maj=36.4km s-min=22.6km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=6.0km az=22.1.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=2.5km az=-1.0.
GUC I 24 15 35 04.6–.47 34.65S 72.13W 15–2 3.6L
¶601516314
GUC Error ellipse: s-maj=1.5km s-min=3.4km az=-1.0.
ISC I 24 18 37 16.5–1.6 28.76S–.05 71.37W–.08 28–12 3.4b 27 1-153
IDC I 24 18 37 12.5–.90 28.78S 71.21W 0 4.0,3.8 **¶17190914**
GUC I 24 18 37 16.5–.53 28.71S 71.33W 43–3 3.2L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=35.2km s-min=24.5km az=102.0.
GUC Error ellipse: s-maj=1.8km s-min=6.7km az=-1.0.
ISC I 25 00 35 51.8–3.8 33.58S–.07 71.9W–.10 15–15 24 1-5
GUC I 25 00 35 52.5–.33 33.55S 71.96W 44–8 3.0L **¶601516318**
ISC Event type ke.
GUC Error ellipse: s-maj=3.2km s-min=3.1km az=-1.0.

ISC I 25 08 14 54.8–2.8 35.08S–.04 72.9W–.10 7–21 20 1-5
GUC I 25 08 14 54.9–.41 35.07S 72.92W 14–4 3.7L ¶601516322
ISC Event type ke.
GUC Error ellipse: s-maj=1.2km s-min=3.6km az=-1.0.
ISC I 25 23 02 06.0–2.0 33.33S–.04 71.53W–.09 17–10 43 1-5
GUC I 25 23 02 07.3–.31 33.27S 71.43W 48–7 3.5L ¶601516328
ISC Event type ke.
GUC Error ellipse: s-maj=1.6km s-min=2.6km az=-1.0.
ISC I 26 00 20 19.6–3.5 34.17S–.08 72.5W–.20 22–16 17 0-6
GUC I 26 00 20 18.9–.34 34.01S 72.52W 37–6 3.0L ¶601516329
SJA I 26 00 20 46.2–.59 32.30S 70.90W 10 2.7W,2.3L
ISC Event type ke.
GUC Error ellipse: s-maj=5.3km s-min=2.7km az=-1.0.
SJA Error ellipse: s-maj=3.1km s-min=7.2km az=-1.0.
GUC I 26 03 59 38.9–.42 35.54S 72.42W 36–2 3.7L
¶601516330
GUC Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
ISC I 26 08 32 46.5–2.4 32.61S–.06 71.8W–.10 13–12 21 1-5
GUC I 26 08 32 45.5–.28 32.46S 71.79W 39–2 2.9L ¶601996253
ISC Event type ke.
GUC Error ellipse: s-maj=2.1km s-min=2.1km az=-1.0.
ISC I 26 20 13 41.2–1.6 31.66S–.03 71.90W–.06 4–9 4.7b,3.9s 76 2-164
ISCJB I 26 20 13 40.7–.39 31.74S–.03 72.14W–.05 10 4.5b,3.9s ¶15977988
IDC I 26 20 13 40.6–.53 31.70S 71.78W 0 4.6,4.5b
NEIC I 26 20 13 42.7–3.0 31.65S 71.82W 13–18 4.8b,4.5b
GUC I 26 20 13 44.1–.67 31.74S 71.86W 37–4 4.8L,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.4km az=166.4.
IDC Error ellipse: s-maj=18.2km s-min=14.6km az=68.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=6.7km az=84.0.
GUC Error ellipse: s-maj=1.6km s-min=7.8km az=-1.0.
GUC I 27 01 54 51.5–.47 36.85S 73.52W 24–3 3.5L
¶601516348
GUC Error ellipse: s-maj=3.7km s-min=3.8km az=-1.0.
ISC I 27 05 49 47.7–3.6 32.63S–.06 71.6W–.10 16–16 20 1-4
SJA I 27 05 49 48.6–.97 32.50S 71.40W 10 2.7W,2.4L ¶601516350
GUC I 27 05 49 48.4–.39 32.55S 71.54W 43–2 2.7L,2.4L
ISC Event type ke.
SJA Error ellipse: s-maj=3.4km s-min=10.8km az=-1.0.
GUC Error ellipse: s-maj=6.7km s-min=7.6km az=-1.0.
GUC I 27 06 41 17.9–.42 34.82S 71.83W 44–2 3.7L
¶601516351
GUC Error ellipse: s-maj=2.3km s-min=3.1km az=-1.0.
ISC I 27 09 47 07.4–1.9 32.24S–.05 71.28W–.08 56–32 20 1-4
SJA I 27 09 47 05.9–.40 32.14S 71.03W 13–2 2.7L ¶601516352
ISCJB I 27 09 47 06.5–1.2 32.25S–.05 71.29W–.07 70–17 2.7L
GUC I 27 09 47 06.3–.37 32.24S 71.26W 63–4 3.0L
ISC Event type ke.
SJA Error ellipse: s-maj=2.0km s-min=2.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.9km az=6.0.
GUC Error ellipse: s-maj=1.1km s-min=5.7km az=-1.0.
GUC I 28 07 53 59.7–.33 35.20S 72.82W 8–7 3.9L
¶601516364
GUC Error ellipse: s-maj=5.1km s-min=3.4km az=-1.0.
GUC I 28 08 28 44.2–.46 34.85S 71.97W 40–2 3.7L
¶601516366
GUC Error ellipse: s-maj=2.4km s-min=3.6km az=-1.0.
GUC I 28 18 14 32.3–.62 36.81S 73.38W 14–5 3.7L
¶601516371
GUC Error ellipse: s-maj=5.3km s-min=4.9km az=-1.0.
GUC I 29 04 09 23.2–.47 34.82S 71.91W 41–2 3.5L
¶601516376
GUC Error ellipse: s-maj=3.4km s-min=4.6km az=-1.0.
ISC I 29 04 51 57.7–.93 28.64S–.06 71.32W–.09 35 17 1-153
ISCJB I 29 04 51 56.5–1.1 28.62S–.05 71.41W–.09 35 3.4b ¶17191235
GUC I 29 04 51 57.9–.45 28.73S 70.93W 70–4 3.7L
IDC I 29 04 51 57.5–1.3 28.57S 71.37W 39–8 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.5km az=18.8.
GUC Error ellipse: s-maj=2.6km s-min=10.0km az=-1.0.
IDC Error ellipse: s-maj=72.1km s-min=41.7km az=114.0.
ISC I 29 21 46 15.4–2.6 34.01S–.05 72.34W–.08 1–15 33 0-154
IDC I 29 21 46 15.4–1.4 33.93S 72.04W 0 3.7,3.6 ¶17191274
GUC I 29 21 46 17.4–.69 34.00S 72.29W 10–4 3.8L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=33.3km az=79.0.
GUC Error ellipse: s-maj=1.9km s-min=5.6km az=-1.0.
GUC I 29 22 56 53.8–.50 34.47S 71.95W 20 3.5L
¶601516385
GUC Error ellipse: s-maj=4.5km s-min=2.6km az=-1.0.
ISC I 30 21 48 28.0–.47 29.89S–.03 71.64W–.06 48–3 4.8b,4.0s 581 0-173
IDC I 30 21 48 20.8–.49 29.92S 71.54W 0 4.7,4.7L ¶15990271
ISCJB I 30 21 48 27.3–.52 29.87S–.02 71.62W–.06 53–5 4.9b,4.0s
SJA I 30 21 48 27.6–.80 29.82S 71.49W 33 4.7L,4.5W
NEIC I 30 21 48 28.0 29.88S 71.50W 50 4.8b,4.5W
GUC I 30 21 48 28.0–.38 29.88S 71.50W 50–2 5.2L,4.5W
BJI I 30 21 48 29.8 29.90S 71.40W 41 5.2s,5.0b
ISC Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=15.6km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.1km az=174.6.
SJA Error ellipse: s-maj=3.5km s-min=16.3km az=-1.0.
NEIC Event type fe. Felt [IV] at Coquimbo, La Higuera, La Serena and Ovalle; [III] at Monte Patria; [II] at Andacollo, Paiguano and Vicuna. After GUC.
GUC Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0.
SJA I 31 02 09 16.1–.44 33.89S 71.57W 66–6 3.9W,2.3L
¶601891190
SJA Error ellipse: s-maj=6.2km s-min=11.7km az=-1.0.
ISC I 31 05 04 51.8–1.5 38.32S–.05 73.8W–.10 10 9 1-73
IDC I 31 05 04 48.4–2.4 38.70S 74.30W 0 3.9,3.7 ¶17191387
GUC I 31 05 04 50.1–.36 38.31S 74.01W 19–4 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=70.0km s-min=17.9km az=47.0.
GUC Error ellipse: s-maj=1.2km s-min=7.3km az=-1.0.
ISC I 31 08 32 39.7–3.5 34.8S–.20 71.9W–.20 32–13 24 0-7
GUC I 31 08 32 40.8–.49 34.76S 71.82W 39–2 3.8L ¶601516406
ISC Event type ke.
GUC Error ellipse: s-maj=3.1km s-min=4.4km az=-1.0.
ISC I 31 15 35 39.6–2.8 34.7S–.20 71.9W–.20 17–23 26 1-6
GUC I 31 15 35 40.6–.43 34.74S 71.80W 43–4 3.9L ¶601516407
ISC Event type ke.
GUC Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC I 31 18 20 34.6–2.2 32.74S–.07 71.7W–.10 10–13 22 1-6
GUC I 31 18 20 35.1–.58 32.69S 71.63W 56–22 3.3L ¶601996256
ISC Event type ke.
GUC Error ellipse: s-maj=5.9km s-min=9.5km az=-1.0.
GUC II 01 02 35 10.2–.70 37.02S 73.45W 11–3 3.5L
¶601516412
GUC Error ellipse: s-maj=5.1km s-min=5.6km az=-1.0.
GUC II 01 12 34 44.8–.44 36.96S 73.56W 17–3 3.9L
¶601516417
GUC Error ellipse: s-maj=3.2km s-min=3.3km az=-1.0.
GUC II 02 04 53 10.7–.56 37.17S 73.41W 24–3 3.6L
¶601516427
GUC Error ellipse: s-maj=3.9km s-min=5.2km az=-1.0.
ISC II 03 08 48 39.3–.70 36.50S–.06 72.9W–.10 25 4.0b 18 0-150
GUC II 03 08 48 33.6–.63 36.47S 73.87W 40–5 4.4L ¶16339701
IDC II 03 08 48 36.7–1.2 36.36S 72.61W 0 4.2,4.1
NEIC II 03 08 48 42.6–1.4 36.38S 72.48W 40–12 4.4,4.1
ISC Event type fe.
GUC Error ellipse: s-maj=2.8km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=33.4km s-min=26.0km az=65.0.
NEIC Event type fe. Error ellipse: s-maj=20.2km s-min=10.9km az=90.0. Felt [III] at Concepcion, Contulmo, Coronel, Curanilahue, Mulchen, Nacimiento, Penco and Talcahuano; [II] at Chillan, Coelemu, Los Angeles, Puerto Saavedra, Santa Barbara, Tome and Yumbel.
ISC II 03 16 01 52.7–.68 30.12S–.04 71.84W–.06 10 4.3b 35 1-154
ISCJB II 03 16 01 51.2–.62 29.96S–.03 71.90W–.06 10 4.5b ¶16328635
IDC II 03 16 01 51.2–.90 30.09S 71.68W 0 4.3L,4.1
NEIC II 03 16 01 54.8–2.6 30.07S 71.66W 23–18 4.7b,4.4L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.9km az=175.4.
IDC Error ellipse: s-maj=34.0km s-min=21.7km az=108.0.
NEIC Event type fe. Error ellipse: s-maj=16.9km s-min=6.8km az=91.0. Felt [III] at Andacollo, Coquimbo, La Higuera, La Serena and Vicuna.
ISC II 03 21 57 29.8–1.3 34.45S–.05 71.58W–.06 30–14 33 0-7
SJA II 03 21 57 26.6–.80 34.48S 71.91W 66–13 3.9L,3.8W ¶601516447
ISCJB II 03 21 57 29.8–.98 34.45S–.04 71.57W–.08 38–22 3.9L,3.8W
GUC II 03 21 57 29.4–.39 34.40S 71.54W 42–3 3.8L,3.8W
ISC Event type ke.
SJA Error ellipse: s-maj=10.0km s-min=22.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.9km az=6.9.
GUC Error ellipse: s-maj=1.0km s-min=1.5km az=-1.0.
ISC II 03 23 35 30.0–1.5 36.41S–.04 73.27W–.07 16–9 4.0b 46 0-159
IDC II 03 23 35 27.9–.99 36.42S 73.11W 0 4.3L,4.1 ¶16328666
ISCJB II 03 23 35 29.7–1.0 36.41S–.04 73.25W–.09 27–7 4.0b,3.8s
NEIC II 03 23 35 30.0 36.47S 73.19W 23 4.1L,4.0b
GUC II 03 23 35 30.2–.49 36.47S 73.19W 23–3 4.1L,4.0b
ISC Event type fe.
IDC Error ellipse: s-maj=31.5km s-min=18.8km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.6km az=15.3.
NEIC Event type fe. Felt [IV] at Arauco, Concepcion, Coronel, Lebu, Penco and Tome; [III] at Bulnes, Cabrero, Chiguayante, Chillan, Los Angeles and Nacimiento. After GUC.
GUC Error ellipse: s-maj=1.3km s-min=3.7km az=-1.0.
ISC II 04 00 02 14.9–.77 37.47S–.08 73.9W–.10 35 3.8b 21 1-151
IDC II 04 00 02 10.0–1.9 37.49S 73.77W 0 3.9,3.8b ¶16328703
NEIC II 04 00 02 11.3–.61 37.51S 73.84W 10 4.1b,3.8b
GUC II 04 00 02 12.3–.55 37.29S 74.17W 33–4 3.9L,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=57.8km s-min=31.1km az=68.0.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=10.0km az=70.0.
GUC Error ellipse: s-maj=6.0km s-min=5.8km az=-1.0.
ISC II 04 09 34 49.5–3.1 32.85S–.07 72.0W–.10 2–17 16 1-4
GUC II 04 09 34 51.1–.44 32.77S 72.04W 14–39 3.2L ¶601516455
SJA II 04 09 34 57.8–.65 32.82S 71.44W 15–28 3.1W,2.6L
ISC Event type ke.
GUC Error ellipse: s-maj=14.3km s-min=19.3km az=-1.0.
SJA Error ellipse: s-maj=31.2km s-min=16.7km az=-1.0.
ISC II 05 07 02 23.6–3.3 36.8S–.10 73.5W–.10 14 15 0-9
GUC II 05 07 02 22.8–.36 36.95S 73.49W 17–2 3.7L ¶601516469
ISC Event type ke.
GUC Error ellipse: s-maj=2.6km s-min=2.7km az=-1.0.
ISC II 05 16 11 38.9–.25 37.65S–.04 73.48W–.05 23 5.4s,5.3b 622 1-177
GUC II 05 16 11 34.7–.71 37.76S 74.09W 27–4 5.5L,5.3b ¶16007307
IDC II 05 16 11 35.2–.49 37.66S 73.49W 0 5.4,5.4s
ISCJB II 05 16 11 37.4–.17 37.69S–.03 73.45W–.05 23 5.4s,5.2b
BJI II 05 16 11 37.8 37.67S 73.88W 24 5.7s,5.6
NEIC II 05 16 11 38.0–.00 37.61S 73.38W 15 5.7s,5.6
GCMT II 05 16 11 39.7–.10 37.81S 73.84W 21–0 5.7W,5.6
MOS II 05 16 11 39.6–1.4 37.56S 73.51W 33 5.5s,5.4b
NEIC II 05 16 11 39.7–.93 37.62S 73.45W 29–6 5.8W,5.6W
ISC Event type fe.
GUC Error ellipse: s-maj=2.7km s-min=8.9km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=11.8km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.4km az=155.3.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}2.55 $M_{\theta\theta}$0.22 $M_{\phi\phi}$-2.77 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.38 $M_{\phi r}$-5.68 Best double couple: NP1:ϕ_s181.00000° ,δ77.00000°,λ87.00000°. NP2:ϕ_s14.00000°,δ12.00000°,λ102.00000°. Principal axes: T 6.1600,Plg57.0000°,Azm88.0000°; N 0.2400,Plg3.0000°,Azm182.0000° ; P -6.4000,Plg32.0000°,Azm274.0000° $M_0$6.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s102,c170; s122,c260;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.31±.04 $M_{\theta\theta}$-0.02±.03; $M_{\phi\phi}$-2.29±.03; $M_{r\theta}$0.03±.05; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$-3.46±.11; Best double couple: NP1: ϕ_s180.00000°,δ73.00000°,λ88.00000°. NP2:ϕ_s9.00000°,δ17.00000°,λ98.00000°. Principal axes: T 4.1680,Plg62.0000°,Azm87.0000°; N -0.0180,Plg2.0000°,Azm181.0000° ; P -4.1500,Plg28.0000°,Azm272.0000° $M_0$4.15900×10^{17}
MOS Error ellipse: s-maj=16.1km s-min=7.6km az=100.1.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=5.9km az=59.0. Felt [V] at Angol, Canete, Concepcion, Los Alamos, Padre Las Casas, Renaico, Puerto Saavedra, San Pedro de la Paz, Temuco and Tolten; [IV] at Cabrero, Chiguayante, Coronel, Curanilahue, Hualpen, La Laja, Lebu, Los Angeles, Nacimiento, Parral, Penco, San Rosendo, Santa Barbara, Talcahuano, Tirua, Tome and Yumbel; [III] at Curacautin, Florida and Linares; [II] at Cauquenes and Romeral. Also felt at Arauco, Chillan and Santiago. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}1.69 $M_{\theta\theta}$0.49 $M_{\phi\phi}$-2.19 $M_{r\theta}$0.06 $M_{\theta\phi}$0.41 $M_{\phi r}$-2.38 Best double couple: NP1:ϕ_s178.00000°,δ70.00000°,λ96.00000°. NP2:ϕ_s342.00000° ,δ20.00000°,λ75.00000°. Principal axes: T 2.8300,Plg64.0000°,Azm97.0000° ; N 0.5300,Plg5.0000°,Azm356.0000°; P -3.3600,Plg25.0000°,Azm264.0000° $M_0$3.10000×10^{17}
ISC II 06 15 16 46.3–.46 36.46S–.06 73.42W–.06 27 4.6b,4.0s 116 1-174
IDC II 06 15 16 41.5–.75 36.58S 73.37W 0 4.4,4.3 ¶16009144
GUC II 06 15 16 42.1–.46 36.46S 73.72W 15–5 4.8L,4.3
ISCJB II 06 15 16 44.8–.33 36.52S–.04 73.32W–.05 27 4.6b,4.0s
NEIC II 06 15 16 45.0–3.9 36.43S 73.25W 16–23 4.8L,4.7b
BJI II 06 15 16 45.0 36.40S 73.30W 16 5.3b,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=24.9km s-min=18.9km az=57.0.
GUC Error ellipse: s-maj=2.0km s-min=4.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.6km az=138.6.
NEIC Event type fe. Error ellipse: s-maj=13.7km s-min=7.3km az=68.0. Felt [IV] at Chiguayante, Concepcion and Hualpen; [III] at Arauco, Constitucion, Coronel, Empedrado, Penco, San Pedro de la Paz and Talcahuano; [II] at Angol, La Laja and Talca.
ISC II 06 15 30 54.2–.87 35.70S–.07 72.82W–.10 17 3.9b 31 1-156
GUC II 06 15 30 46.5–.70 36.90S 71.09W 25–7 4.7L ¶17191798
IDC II 06 15 30 51.8–1.0 35.54S 72.78W 0 4.1,4.1L
ISCJB II 06 15 30 52.5–.70 35.69S–.07 73.03W–.09 17 3.8b,4.1L
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 00 29 46.2–2.4 31.68S–.03 71.80W–.08 12–15 4.1b 33 1-155
NEIC II 07 00 29 48.0 31.73S 71.71W 34 4.1b,3.8L ¶16245203
GUC II 07 00 29 48.7–.46 31.73S 71.71W 34–2 3.8L,3.8L
IDC II 07 00 29 54.6–3.4 31.98S 71.52W 75–28 4.0b,3.9
ISC Event type se.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.2km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=94.0km s-min=28.7km az=94.0.
ISC II 07 05 49 31.4–2.8 32.46S–.08 71.6W–.10 25–16 18 1-4
GUC II 07 05 49 33.1–.37 32.60S 71.55W 57–10 2.5L ¶601516492
ISC Event type ke.
GUC Error ellipse: s-maj=3.0km s-min=3.7km az=-1.0.
GUC II 08 02 42 28.4–.60 30.79S 71.28W 58–4 3.5L
¶601516499
GUC Error ellipse: s-maj=1.4km s-min=8.0km az=-1.0.
GUC II 08 08 54 20.6–.52 36.71S 73.28W 8–2 3.8L
¶601516502
GUC Error ellipse: s-maj=1.8km s-min=6.2km az=-1.0.
ISC II 09 07 36 35.6–2.4 37.6S–.10 73.9W–.40 35 3.8b,3.8s 10 4-160
IDC II 09 07 36 30.3–2.5 37.63S 73.93W 0 4.1L,4.0 ¶17191935
ISCJB II 09 07 36 32.8–2.3 37.7S–.10 74.1W–.40 33 3.9b,3.8s
ISC Event type ke.
ISCJB Event type ke.
GUC II 09 10 49 56.6–.58 34.72S 72.41W 35–2 3.5L
¶601516510
GUC Error ellipse: s-maj=2.4km s-min=4.0km az=-1.0.

ISC II 10 15 58 35.9–1.7 32.66S–.03 71.78W–.06 5–10 4.8b 132 1-171
ISCJB II 10 15 58 35.8–.26 32.69S–.03 71.91W–.04 10 4.8b **¶16022180**
IDC II 10 15 58 35.3–.68 32.76S 71.73W 0 4.7L,4.6
BJI II 10 15 58 35.8 32.60S 71.80W 9 5.6,5.6s
NEIC II 10 15 58 35.3–3.7 32.63S 71.78W 4–22 5.1L,4.8b
GUC II 10 15 58 38.3–.67 32.71S 71.89W 21–5 5.1L,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.8km az=149.7.
IDC Error ellipse: s-maj=24.8km s-min=18.5km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=15.8km s-min=7.7km az=79.0. Felt [IV] at Concon, La Ligua, Quilpue, Valparaiso, Villa Alemana, Vina del Mar and Zapallar; [III] at Curacavi, Los Andes, Nogales, Petorca, Puchuncavi, Puente Alto, Quillota, Quintero, San Felipe, Santiago and Tiltil; [II] at Calera de Tango, Mostazal, Navidad, Rancagua, Salamanca, San Antonio and Talagante.
GUC Error ellipse: s-maj=2.1km s-min=4.1km az=-1.0.
ISC II 11 06 35 21.0–2.3 36.65S–.06 73.4W–.10 27 16 0-9
GUC II 11 06 35 21.1–.47 36.61S 73.33W 14–3 3.7L **¶601516528**
ISC Event type ke.
GUC Error ellipse: s-maj=1.3km s-min=3.8km az=-1.0.
GUC II 11 06 37 49.1–.33 36.61S 73.39W 14–4 3.5L
¶601516529
GUC Error ellipse: s-maj=1.0km s-min=3.6km az=-1.0.
GUC II 11 09 50 35.9–.33 37.77S 73.80W 32–2 3.8L
¶601516530
GUC Error ellipse: s-maj=1.1km s-min=4.0km az=-1.0.
ISC II 11 10 05 49.9–1.1 37.65S–.07 73.73W–.09 23 3.5b 23 1-160
IDC II 11 10 05 45.8–1.7 37.82S 73.81W 0 3.9,3.8 **¶17192069**
GUC II 11 10 05 46.5–.32 37.78S 73.76W 21–7 4.3L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=59.8km s-min=30.0km az=53.0.
GUC Error ellipse: s-maj=2.6km s-min=5.3km az=-1.0.
ISC II 11 20 05 28.9–.39 36.46S–.03 73.16W–.04 13–2 7.1s,6.0b 1616 0-178
ISCJB II 11 20 05 26.7–.93 36.40S–.02 73.05W–.04 6–5 7.1s,6.0b **¶602064448**
GUC II 11 20 05 26.8–.68 36.68S 73.59W 21–10 6.9L,6.8W
IDC II 11 20 05 29.4–1.9 36.55S 73.24W 19–11 6.8s,6.8
NEIC II 11 20 05 30.9–.15 36.42S 72.96W 26 6.9L,6.9
GCMT II 11 20 05 30.8–.00 36.63S 73.56W 18–0 6.8W,6.9
BJI II 11 20 05 31.3 36.30S 73.00W 20 7.1,7.1s
NEIC II 11 20 05 31.0–.00 36.48S 73.40W 28 7.1,7.1s
MOS II 11 20 05 32.2–1.4 36.17S 73.10W 33 7.1s,6.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=166.6.
GUC Error ellipse: s-maj=6.2km s-min=7.3km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=9.4km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=74.0. Power outages occurred at Constitucion, Curanipe and Pelluhue. A local tsunami with a wave height of 0.3 meters observed at Talcahuano. Felt [VI] at Arauco, Cauquenes, Chanco, Colbun, Concepcion, Constitucion, Curico, Empedrado, La Laja, Linares, Longavi, Molina, Pelluhue, Retiro, Romeral, San Clemente, San Javier, Talca, Talcahuano and Yerbas Buenas; [V] at Angol, Chepica, Chillan, Iloca, Los Sauces, Melipeuco, Paredones, Parral, Rancagua, Renaico, Rio Claro, Santa Cruz and Yumbel; [IV] at Los Angeles, San Vicente and Vina del Mar; [III] at Santiago and Temuco. Felt in much of central Chile from La Ligua to Valdivia. Felt [II] at Buenos Aires, Argentina. Also felt at Cutral Co, Mendoza, Neuquen, San Carlos de Bariloche and San Juan. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 3 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$2.00000×10^{19} Moment Tensor Solution. s49 Moment tensor: Scale 10^{19}Nm; M_{rr}0.55 $M_{\theta\theta}$0.06 $M_{\phi\phi}$-0.61 $M_{r\theta}$0.33 $M_{\theta\phi}$-0.10 $M_{\phi r}$-1.55 Best double couple: NP1:ϕ_s169.00000°,δ80.00000°,λ82.00000°. NP2:ϕ_s28.00000°,δ12.00000°,λ128.00000°. Principal axes: T 1.6900,Plg54.0000°,Azm70.0000°; N 0.0000,Plg7.0000°,Azm171.0000°; P -1.6900,Plg35.0000°,Azm266.0000° $M_0$1.70000×10^{19}
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s139,c342; s136,c609;Duration: 6s4 Moment tensor: Scale 10^{19} Nm; M_{rr}1.00±.01 $M_{\theta\theta}$-0.03±.00; $M_{\phi\phi}$-0.96±.01; $M_{r\theta}$0.03±.01; $M_{\theta\phi}$-0.13±.00; $M_{\phi r}$-2.09±.03; Best double couple: NP1:ϕ_s180.00000°,δ77.00000°,λ87.00000°. NP2:ϕ_s15.00000°,δ13.00000°,λ104.00000°. Principal axes: T 2.3300,Plg57.0000°,Azm86.0000°; N -0.0320,Plg3.0000°,Azm181.0000°; P -2.2970,Plg32.0000°,Azm273.0000° $M_0$2.31300×10^{19}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{19}Nm; M_{rr}0.86 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-0.89 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.27 $M_{\phi r}$-3.02 Best double couple: NP1:ϕ_s169.00000°,δ83.00000°,λ82.00000°. NP2:ϕ_s36.00000°,δ11.00000°,λ136.00000°. Principal axes: T 3.2800,Plg51.0000°,Azm70.0000°; N -0.1000,Plg7.0000°,Azm169.0000°; P -3.1700,Plg37.0000°,Azm265.0000° $M_0$3.20000×10^{19}
MOS Error ellipse: s-maj=12.6km s-min=6.8km az=96.1. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s177.00000°,δ84.00000°,λ61.00000°. NP2:ϕ_s77.00000°,δ30.00000°,λ169.00000°. Principal axes: T Plg43.0000°,Azm58.0000°; N Plg29.0000°,Azm180.0000°; P Plg33.0000°,Azm291.0000°
ISC II 11 20 08 58.8–.88 36.3S–.20 73.3W–.20 25 5.0b 16 5-168
IDC II 11 20 08 54.8–.99 36.32S 73.29W 0 5.1,5.0 **¶17192086**
ISCJB II 11 20 08 57.5–.84 36.3S–.10 73.3W–.30 25 4.9b,5.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 11 20 16 41.4–.49 36.44S–.07 73.0W–.10 25 5.0b 148 5-169
IDC II 11 20 16 37.2–.65 36.46S 73.16W 0 4.7,4.7 **¶16339721**
ISCJB II 11 20 16 39.7–.28 36.45S–.05 73.05W–.09 25 5.0b,4.7
NEIC II 11 20 16 42.9–1.1 36.45S 73.15W 39–9 5.3b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=15.4km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.2km az=152.2.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=5.5km az=73.0.
ISC II 11 20 41 26.6–.77 36.49S–.09 73.4W–.10 27 4.3b 40 4-169
IDC II 11 20 41 22.1–1.1 36.64S 73.42W 0 4.3L,4.2 **¶16339722**
ISCJB II 11 20 41 24.8–.76 36.58S–.07 73.4W–.10 27 4.2b,4.2
NEIC II 11 20 41 26.5–4.1 36.58S 73.50W 31–27 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=18.6km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=9.2km az=12.2.
NEIC Event type se. Error ellipse: s-maj=24.3km s-min=11.3km az=76.0.
ISC II 11 20 43 09.6–.47 36.60S–.05 73.29W–.07 27 4.6b 67 0-169
IDC II 11 20 43 05.6–.74 36.57S 73.36W 0 4.6L,4.5 **¶16245216**
ISCJB II 11 20 43 08.2–.34 36.62S–.04 73.38W–.05 27 4.6b,4.5
GUC II 11 20 43 09.4–.74 36.63S 73.38W 19–21 4.3L,4.5
NEIC II 11 20 43 10.9–1.0 36.55S 73.20W 35–8 4.6b,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=15.8km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=144.4.
GUC Error ellipse: s-maj=2.1km s-min=17.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.8km s-min=5.7km az=77.0. Felt [III] at La Laja.
ISC II 11 20 49 07.5–.97 36.6S–.10 73.2W–.20 25 4.1b 15 5-159
IDC II 11 20 49 03.4–1.1 36.64S 73.21W 0 4.5L,4.2 **¶17192088**
ISCJB II 11 20 49 06.0–.88 36.60S–.09 73.2W–.20 25 4.0b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC II 11 20 51 49.9–1.3 36.90S 73.71W 0 5.2L,4.3
¶17192089
IDC Error ellipse: s-maj=37.8km s-min=33.2km az=15.0.
ISC II 11 21 01 18.8–.42 36.44S–.05 73.43W–.06 27 4.7b 101 0-174
IDC II 11 21 01 15.4–.70 36.36S 73.32W 0 4.6,4.5 **¶16022188**
NEIC II 11 21 01 16.0 36.46S 73.58W 18 4.8b,4.6L
GUC II 11 21 01 16.0–.72 36.46S 73.58W 18–11 4.6L,4.6L
ISCJB II 11 21 01 17.6–.36 36.37S–.03 73.39W–.06 27 4.7b,4.6L
BJI II 11 21 01 17.0 36.38S 73.66W 28 4.6,4.6L
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=15.1km az=63.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=4.8km s-min=8.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=166.5.
ISC II 11 21 04 19.0–.57 36.56S–.09 73.3W–.10 27 4.5b 51 5-169
IDC II 11 21 04 14.6–.70 36.60S 73.35W 0 4.5,4.3 **¶16269109**
ISCJB II 11 21 04 17.7–.45 36.55S–.08 73.2W–.10 27 4.6b,4.3
NEIC II 11 21 04 21.2–1.1 36.60S 73.19W 46–10 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=16.1km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=10.7km az=156.2.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.5km az=84.0.
ISC II 11 21 37 32.6–.57 36.66S–.06 73.52W–.07 27 4.4b 70 0-169
IDC II 11 21 37 28.5–.76 36.67S 73.54W 0 4.3,4.3 **¶16304905**
GUC II 11 21 37 30.7–.64 36.66S 73.51W 5–49 4.2L,4.3
NEIC II 11 21 37 30.0 36.66S 73.51W 5 4.3b,4.2L
ISCJB II 11 21 37 31.5–.50 36.63S–.04 73.48W–.06 27 4.2b,4.2L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hualpen, San Pedro de la Paz and Talcahuano; [III] at Cauquenes, Concepcion, La Laja and Pelluhue; [II] at Angol, Curacautin, Lumaco, Padre Las Casas and Temuco. After GUC.
ISCJB Event type fe.
ISC II 11 21 45 58.9–.28 36.62S–.04 73.29W–.06 27 5.3b 666 0-178
ISCJB II 11 21 45 57.5–.18 36.54S–.04 73.19W–.06 27 5.5s,5.1b **¶16021294**
GUC II 11 21 45 57.2–.66 36.66S 73.44W 18–9 4.9L,5.1b
NEIC II 11 21 45 57.0 36.66S 73.44W 18 5.3b,4.9L
IDC II 11 21 45 59.6–3.9 36.72S 73.34W 33–28 5.5,5.5s
MOS II 11 21 45 59.0–1.1 36.63S 73.25W 33 5.4b,5.5s
BJI II 11 21 46 00.6 36.50S 73.00W 29 5.9b,5.5s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.4km az=154.5.
GUC Error ellipse: s-maj=5.2km s-min=6.3km az=-1.0.
NEIC Event type fe. Felt [III] at La Laja. After GUC.
IDC Error ellipse: s-maj=20.7km s-min=12.4km az=68.0.
MOS Error ellipse: s-maj=16.8km s-min=7.7km az=103.8.
GUC II 11 21 54 26.6–.48 36.65S 73.33W 19–8 3.9L
¶601516535
GUC Error ellipse: s-maj=5.8km s-min=6.7km az=-1.0.
GUC II 11 21 56 36.4–.77 36.62S 73.35W 14–16 3.5L
¶601516536
GUC Error ellipse: s-maj=8.6km s-min=13.7km az=-1.0.
ISC II 11 22 12 43.6–.50 36.62S–.05 73.44W–.06 27 4.4b 66 0-169
IDC II 11 22 12 40.0–.68 36.55S 73.27W 0 4.3,4.2 **¶16328807**
GUC II 11 22 12 41.5–.55 36.67S 73.51W 11–13 4.5L,4.2
NEIC II 11 22 12 41.0 36.67S 73.51W 11 4.7b,4.5L
ISCJB II 11 22 12 42.2–.38 36.61S–.04 73.41W–.05 27 4.5b,4.5L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Concepcion, Coronel, Los Alamos, Penco and Tome. After GUC.
ISCJB Event type fe.
GUC II 11 22 19 05.0–.46 36.50S 73.22W 7–9 3.6L
¶601516537
GUC Error ellipse: s-maj=1.9km s-min=7.7km az=-1.0.
ISC II 11 22 20 38.3–3.4 31.62S–.04 71.54W–.08 16–21 4.2b 39 1-84
GUC II 11 22 20 40.2–.42 31.62S 71.28W 31–3 4.0L **¶16342601**
NEIC II 11 22 20 40.0 31.62S 71.28W 31 4.1b,4.0L
ISC Event type fe.
GUC Error ellipse: s-maj=1.5km s-min=11.1km az=-1.0.
NEIC Event type fe. Felt [II] at Illapel and Salamanca. After GUC.
ISC II 11 22 50 38.2–.69 36.56S–.06 73.35W–.08 27 4.0b 38 0-169
IDC II 11 22 50 32.8–1.4 36.85S 73.47W 0 4.1,4.0 **¶16328809**
ISCJB II 11 22 50 36.6–.53 36.55S–.04 73.39W–.06 27 3.9b,4.0
NEIC II 11 22 50 36.0 36.55S 73.37W 7 4.0b,3.9L
GUC II 11 22 50 36.1–.51 36.55S 73.37W 7–15 3.9L,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=45.7km s-min=31.4km az=17.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.1km az=157.9.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=2.0km s-min=15.2km az=-1.0.
ISC II 11 23 09 03.8–.60 36.53S–.06 73.45W–.07 27 4.2b 35 0-159
IDC II 11 23 08 59.9–1.1 36.47S 73.43W 0 4.1,4.0 **¶16328801**
ISCJB II 11 23 09 02.2–.45 36.54S–.05 73.54W–.06 27 4.2b,4.0
NEIC II 11 23 09 02.0 36.53S 73.43W 10 4.3b,4.0
GUC II 11 23 09 02.9–.58 36.53S 73.43W 10–7 3.7L,4.0
ISC Event type se.
IDC Error ellipse: s-maj=38.0km s-min=18.9km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.4km az=31.4.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=5.6km az=-1.0.
ISC II 11 23 16 58.2–.67 36.62S–.07 73.38W–.09 27 4.2b 50 2-169
IDC II 11 23 16 54.1–.77 36.67S 73.31W 0 4.3L,4.2 **¶16328802**
ISCJB II 11 23 16 57.2–.48 36.57S–.05 73.29W–.08 27 4.2b,4.2
NEIC II 11 23 16 58.8–2.5 36.60S 73.31W 30–17 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=17.0km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.4km az=24.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=7.1km az=67.0.
ISC II 11 23 39 21.2–.37 37.24S–.03 73.49W–.05 17–1 5.7s,5.5b 935 0-178
GUC II 11 23 39 16.6–.87 37.12S 74.25W 38–12 5.3L,5.5b **¶16021297**
ISCJB II 11 23 39 18.4–1.5 37.09S–.03 73.26W–.05 3–9 5.8s,5.3b
IDC II 11 23 39 18.6–.41 37.20S 73.40W 0 5.7,5.7s
GCMT II 11 23 39 21.3–.10 37.45S 74.11W 16–0 6.0W,5.7s
NEIC II 11 23 39 21.3–.19 37.20S 73.20W 15 5.9W,5.7s
BJI II 11 23 39 22.5 37.10S 73.30W 15 6.0b,6.0s
MOS II 11 23 39 23.5–1.3 37.18S 73.31W 35 5.6b,5.6s
ISC Event type fe.
GUC Error ellipse: s-maj=19.0km s-min=10.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=159.1.
IDC Error ellipse: s-maj=13.0km s-min=8.1km az=95.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c162; s126,c325;Duration: 2s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.59±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$-1.01±.04; Best double couple: NP1:ϕ_s183.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s11.00000°,δ16.00000°,λ98.00000°. Principal axes: T 1.1970,Plg61.0000°,Azm90.0000°; N -0.0280,Plg2.0000°,Azm183.0000°; P -1.1690,Plg29.0000°,Azm275.0000° $M_0$1.18300×10^{18}
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=72.0. Felt [V] at Arauco, Concepcion, Hualqui, Penco, Talcahuano and Yumbel; [IV] at Cabrero, Curanilahue, Hualpen, Los Angeles and Renaico; [III] at Angol, Collipulli, Constitucion, La Laja, Los Sauces, Padre Las Casas, Parral, Puren, Quirihue, Temuco and Tolten; [II] at Carahue, Curacautin, Tirua and Valdivia. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s54 Moment tensor: Scale 10^{17}Nm; M_{rr}6.93 $M_{\theta\theta}$-0.77 $M_{\phi\phi}$-6.17 $M_{r\theta}$-0.59 $M_{\theta\phi}$-1.39 $M_{\phi r}$-6.30 Best double couple: NP1:ϕ_s188.00000°,δ67.00000°,λ86.00000°. NP2:ϕ_s18.00000°,δ24.00000°,λ99.00000°. Principal axes: T 9.4700,Plg68.0000°,Azm90.0000°; N -0.4900,Plg4.0000°,Azm190.0000°; P -8.9800,Plg22.0000°,Azm281.0000° $M_0$9.20000×10^{17}
MOS Error ellipse: s-maj=18.2km s-min=7.6km az=104.6.
ISC II 11 23 48 01.7–.74 37.2S–.10 73.7W–.20 14 5.4s,4.3b 34 4-169
IDC II 11 23 47 59.5–.94 37.19S 73.71W 0 5.4s,5.3 **¶16328804**
ISCJB II 11 23 48 00.2–.68 37.17S–.09 73.7W–.20 14 5.3s,4.2b
NEIC II 11 23 48 04.8–1.1 37.20S 73.68W 35–9 4.3b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=35.7km s-min=17.0km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=11.0km az=154.4.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=6.9km az=74.0.
GUC II 11 23 52 04.8–.81 36.60S 73.45W 6–12 3.9L
¶601516538
GUC Error ellipse: s-maj=2.5km s-min=9.5km az=-1.0.
ISC II 11 23 57 13.2–.73 36.68S–.06 73.36W–.08 27 4.0b 39 0-95
IDC II 11 23 57 10.6–1.4 36.38S 73.01W 0 4.0,3.9 **¶601516539**
ISCJB II 11 23 57 12.0–.56 36.58S–.04 73.45W–.06 27 4.0b,3.9
GUC II 11 23 57 13.9–.49 36.59S 73.33W 7–7 4.2L,3.9
NEIC II 11 23 57 13.0 36.59S 73.33W 7 4.3b,4.2L
ISC Event type fe.
IDC Error ellipse: s-maj=38.1km s-min=27.4km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.3km az=160.4.
GUC Error ellipse: s-maj=1.3km s-min=8.1km az=-1.0.

NEIC Event type fe. Felt [III] at Cobquecura, Coelemu, Concepcion, Constitucion, Los Alamos, Penco, Quirihue, San Pedro de la Paz, Talca, Talcahuano and Tome; [II] at Cauquenes, Florida, Los Angeles, Parral and Yumbel. After GUC.

GUC II 11 23 58 04.8–.40 36.61S 73.38W 7–7 4.1L ¶602734467

GUC Error ellipse: s-maj=1.1km s-min=8.0km az=-1.0.

ISC II 12 00 43 53.8–.70 36.73S–.04 73.38W–.08 27 4.0b 38 0-159
IDC II 12 00 43 51.8–1.5 35.99S 73.26W 0 4.1,3.9 **¶16328816**
ISCJB II 12 00 43 52.5–.55 36.64S–.05 73.41W–.05 27 4.0b,3.9
GUC II 12 00 43 53.0–.50 36.61S 73.36W 7–8 4.0L,3.9
NEIC II 12 00 43 53.0 36.61S 73.36W 7 4.1b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=58.1km s-min=28.6km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.3km az=9.5.
GUC Error ellipse: s-maj=1.3km s-min=9.4km az=-1.0.
NEIC Event type fe. Felt [II] at Concepcion and Penco. After GUC.

ISC II 12 01 17 00.7–.22 37.00S–.03 73.16W–.06 10 5.9s,5.4b 977 0-177
IDC II 12 01 16 57.8–.46 37.21S 73.70W 0 5.9,5.9s **¶16021304**
ISCJB II 12 01 17 00.1–.17 37.03S–.04 73.09W–.06 10 5.9s,5.3b
GUC II 12 01 17 00.6–.40 36.96S 74.16W 25–2 5.9L,5.3b
NEIC II 12 01 17 01.4–.22 37.03S 72.95W 16 6.1W,5.9L
GCMT II 12 01 17 01.4–.10 37.35S 74.00W 14–0 6.0W,5.9L
BJI II 12 01 17 02.7 37.10S 73.00W 16 6.2s,6.1
MOS II 12 01 17 03.1–1.5 37.12S 73.37W 33 5.9s,5.5b
ISC Event type fe.
IDC Error ellipse: s-maj=18.2km s-min=12.2km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.4km az=151.2.
GUC Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=6.2km az=66.0. Felt [VI] at Concepcion and Penco; [V] at Angol, Cabrero, Chiguayante, Cobquecura, Curanilahue, Hualpen, La Laja, Los Alamos, Los Angeles, Quirihue, Renaico, San Rosendo, Tirua and Tome. Felt widely in central Chile as far as Valdivia and Vina del Mar. Also felt at Cutral-Co, Argentina. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. M_o3.20000×10^{18} Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95 $M_{\theta\theta}$0.32 $M_{\phi\phi}$-1.27 $M_{r\theta}$-0.31 $M_{\theta\phi}$0.90 $M_{\phi r}$-0.86 Best double couple: NP1:ϕ_s186.00000°,δ67.00000°,λ128.00000°. NP2:ϕ_s302.00000°,δ43.00000°,λ34.00000°. Principal axes: T 1.5600,Plg52.0000°,Azm141.0000°; N 0.2800,Plg35.0000°,Azm349.0000°; P -1.8400,Plg14.0000°,Azm249.0000° M_o1.70000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c219; s132,c375;Duration: 2$\hat{s}$4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.61±.01 $M_{\theta\theta}$0.01±.01; $M_{\phi\phi}$-0.62±.01; $M_{r\theta}$-0.05±.01; $M_{\theta\phi}$-0.08±.01; $M_{\phi r}$-1.06±.03; Best double couple: NP1:ϕ_s183.00000°,δ75.00000°,λ88.00000°. NP2:ϕ_s12.00000°,δ15.00000°,λ98.00000°. Principal axes: T 1.2230,Plg60.0000°,Azm90.0000°; N 0.0170,Plg2.0000°,Azm184.0000°; P -1.2400,Plg30.0000°,Azm275.0000° M_o1.23100×10^{18}
MOS Error ellipse: s-maj=15.2km s-min=7.2km az=103.7.

ISC II 12 01 22 31.1–1.2 37.3S–.10 73.9W–.10 35 4.2b 11 1-75
ISCJB II 12 01 22 28.9–.98 37.3S–.10 74.0W–.10 33 4.0b **¶16196681**
GUC II 12 01 22 29.8–.38 37.25S 73.80W 10–3 4.1L
NEIC II 12 01 22 29.0 37.25S 73.80W 10 4.2b,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=18.5km s-min=9.0km az=148.2.
GUC Error ellipse: s-maj=3.7km s-min=3.6km az=-1.0.
NEIC Event type fe. Felt [III] at Arauco and Concepcion. After GUC.

ISC II 12 01 33 43.3–1.5 37.1S–.10 73.9W–.10 35 3.8b 11 1-87
IDC II 12 01 33 36.5–2.0 37.51S 73.85W 0 4.0,3.9 **¶16196329**
GUC II 12 01 33 39.3–.43 37.05S 74.10W 22–7 4.2L,3.9
NEIC II 12 01 33 39.0 37.04S 74.10W 22 4.2L,3.9
ISCJB II 12 01 33 40.9–1.1 37.3S–.10 73.9W–.10 33 3.8b,3.9
ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion. After GUC.
ISCJB Event type fe.

ISC II 12 01 37 43.8–.61 37.14S–.08 73.91W–.08 35 4.3b 61 1-169
GUC II 12 01 37 37.3–.30 37.32S 74.16W 33–2 4.4L **¶16196685**
IDC II 12 01 37 38.6–.86 37.23S 73.72W 0 4.3,4.2
NEIC II 12 01 37 40.2–.29 37.16S 73.81W 10 4.5b,4.4L
ISCJB II 12 01 37 42.4–.47 37.13S–.05 73.73W–.07 33 4.5b,4.4L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, Hualpen, Penco, Talcahuano and Tome; [II] at Chiguayante and Tirua.
ISCJB Event type fe.

ISC II 12 01 47 09.8–.60 37.14S–.07 73.83W–.08 35 4.2b 55 1-169
IDC II 12 01 47 04.8–.96 37.17S 73.64W 0 4.2,4.1 **¶16196331**
GUC II 12 01 47 07.9–.64 37.31S 73.72W 18–9 4.5L,4.1
NEIC II 12 01 47 07.0 37.31S 73.72W 18 4.5L,4.4b
ISCJB II 12 01 47 08.4–.53 37.04S–.05 73.89W–.07 33 4.3b,4.4b
ISC Event type fe.
NEIC Event type fe. Felt [V] at La Laja; [IV] at Concepcion and Coronel; [III] at Penco, San Pedro de la Paz and Tome; [II] at Padre Las Casas and Temuco. After GUC.
ISCJB Event type fe.

IDC II 12 01 53 39.6–1.5 37.19S 73.64W 0 3.7,3.5 ¶17192097

IDC Error ellipse: s-maj=63.5km s-min=19.7km az=70.0.

ISC II 12 02 04 49.0–.89 36.53S–.05 73.19W–.09 25 3.8b 26 0-159
IDC II 12 02 04 45.4–1.4 36.42S 73.10W 0 4.0,3.8 **¶17192098**
ISCJB II 12 02 04 47.1–.71 36.45S–.04 73.29W–.08 25 3.8b,3.8
GUC II 12 02 04 49.4–.36 36.44S 73.23W 8–2 3.6L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=43.1km s-min=30.1km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.7km az=1.4.
GUC Error ellipse: s-maj=1.1km s-min=3.8km az=-1.0.

ISC II 12 02 29 12.3–1.1 37.22S–.09 73.97W–.09 10 3.8b 25 1-160
ISCJB II 12 02 29 09.7–.92 37.21S–.08 74.13W–.09 10 3.9b **¶16196333**
NEIC II 12 02 29 13.0 37.24S 73.89W 14 4.2L,4.1b
GUC II 12 02 29 13.2–.38 37.24S 73.89W 14–3 4.2L,4.1b
IDC II 12 02 29 17.4–1.4 36.98S 72.24W 0 4.0,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=8.6km az=142.3.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.5km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=52.0km s-min=19.8km az=73.0.

ISC II 12 04 11 26.0–1.3 36.63S–.08 73.4W–.10 27 3.8b 22 2-86
IDC II 12 04 11 22.9–1.8 36.48S 73.31W 0 3.9,3.7 **¶17192103**
ISCJB II 12 04 11 25.2–1.2 36.44S–.07 73.4W–.20 27 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.

ISC II 12 04 14 10.7–.66 36.35S–.05 73.57W–.07 27 4.3b 29 1-169
ISCJB II 12 04 14 08.4–.55 36.37S–.05 73.74W–.06 27 4.4b,4.1s **¶16196682**
IDC II 12 04 14 08.1–1.3 36.25S 73.28W 0 4.2,4.1
GUC II 12 04 14 09.4–.54 36.32S 73.73W 16–5 4.2L,4.1
NEIC II 12 04 14 09.0 36.32S 73.73W 16 4.2L,4.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.1km az=33.2.
IDC Error ellipse: s-maj=42.5km s-min=25.4km az=67.0.
GUC Error ellipse: s-maj=2.4km s-min=4.2km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Hualpen, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at Chiguayante and Coronel. After GUC.

ISC II 12 05 19 23.3–.53 36.47S–.05 73.35W–.07 27 4.5b,4.1s 107 0-174
IDC II 12 05 19 18.6–.95 36.60S 73.39W 0 4.2,4.1 **¶16022190**
GUC II 12 05 19 21.5–.53 36.55S 73.34W 7–12 4.4L,4.1
NEIC II 12 05 19 21.0 36.54S 73.34W 7 4.6b,4.4L
ISCJB II 12 05 19 22.5–.32 36.44S–.05 73.34W–.04 27 4.5b,4.0s
BJI II 12 05 19 24.3 36.50S 73.30W 30 4.5b,4.0s
ISC Event type fe.
IDC Error ellipse: s-maj=29.5km s-min=22.7km az=51.0.
GUC Error ellipse: s-maj=1.9km s-min=12.8km az=-1.0.
NEIC Event type fe. Felt [IV] at Chiguayante, Concepcion, Hualpen, Talcahuano and Tome; [III] at Cobquecura and Quirihue; [II] at Renaico and Talca. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=177.4.

ISC II 12 05 48 48.1–1.4 37.2S–.10 73.7W–.20 14 3.7b 13 4-87
IDC II 12 05 48 44.7–2.2 37.29S 74.00W 0 3.9,3.7 **¶17192104**
ISCJB II 12 05 48 45.9–1.4 37.19S–.09 73.8W–.20 14 3.6b,3.5s
ISC Event type ke.
ISCJB Event type ke.

ISC II 12 06 25 05.2–.79 36.64S–.05 73.38W–.08 27 3.9b,3.2s 37 0-159
IDC II 12 06 25 01.0–1.2 36.56S 73.41W 0 4.0,3.9 **¶16160033**
ISCJB II 12 06 25 03.7–.69 36.61S–.05 73.47W–.07 27 3.8b,3.2s
GUC II 12 06 25 04.2–.41 36.63S 73.37W 7–8 3.8L,3.2s
NEIC II 12 06 25 04.0 36.63S 73.37W 7 4.3b,3.8L
ISC Event type fe.
IDC Error ellipse: s-maj=41.0km s-min=28.5km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=164.8.
GUC Error ellipse: s-maj=1.2km s-min=8.5km az=-1.0.
NEIC Event type fe. Felt [III] at Coelemu, Concepcion, Hualpencillo, Penco, Talcahuano and Tome; [II] at Cauquenes, Chiguayante and Talca. After GUC.

GUC II 12 06 38 28.7–.43 37.21S 73.75W 17–3 3.9L ¶601516551

GUC Error ellipse: s-maj=3.5km s-min=3.6km az=-1.0.

ISC II 12 08 16 29.4–.76 36.39S–.05 73.31W–.07 27 4.2b 40 0-89
IDC II 12 08 16 25.9–1.1 36.31S 73.28W 0 4.2,4.1 **¶16160034**
ISCJB II 12 08 16 28.4–.54 36.29S–.04 73.32W–.06 27 4.2b,3.6s
GUC II 12 08 16 28.8–.39 36.42S 73.25W 9–4 4.0L,3.6s
NEIC II 12 08 16 28.0 36.42S 73.25W 9 4.4b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=31.1km s-min=19.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.7km az=165.0.
GUC Error ellipse: s-maj=1.2km s-min=4.0km az=-1.0.
NEIC Event type fe. Felt [III] at Cauquenes, Concepcion, Hualpencillo, Pelluhue, Penco, Quirihue, Talcahuano and Tome; [II] at Chanco, Chiguayante and Talca. After GUC.

GUC II 12 11 12 02.5–.34 36.42S 73.25W 12–6 3.5L ¶601516554

GUC Error ellipse: s-maj=1.3km s-min=3.5km az=-1.0.

ISC II 12 11 53 22.7–2.3 36.47S–.07 73.7W–.10 27 21 1-9
GUC II 12 11 53 25.2–.49 36.51S 73.45W 10–6 3.9L **¶601516556**
ISC Event type ke.
GUC Error ellipse: s-maj=1.4km s-min=4.8km az=-1.0.

ISC II 12 12 19 08.5–.70 36.76S–.05 73.65W–.06 14 4.1b 48 0-160
ISCJB II 12 12 19 06.8–.68 36.70S–.06 73.80W–.06 14 4.6s,4.1b **¶16030477**
IDC II 12 12 19 06.3–.99 36.86S 73.65W 0 4.2,4.1
GUC II 12 12 19 07.6–.70 36.86S 73.67W 26–15 4.5L,4.1
NEIC II 12 12 19 07.0 36.86S 73.67W 26 4.5L,4.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.3km az=24.9.
IDC Error ellipse: s-maj=33.8km s-min=17.2km az=62.0.
GUC Error ellipse: s-maj=10.0km s-min=5.2km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Hualpen, La Laja, San Pedro de la Paz and Talcahuano; [II] at Chiguayante and Talca. After GUC.

ISC II 12 12 40 49.3–1.7 36.70S–.06 73.56W–.09 10 18 0-80
ISCJB II 12 12 40 46.6–1.1 36.66S–.06 73.68W–.08 10 4.4b **¶16166733**
GUC II 12 12 40 50.2–.82 36.66S 73.42W 7–21 4.1L
NEIC II 12 12 40 50.0 36.66S 73.42W 7 4.5b,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.4km az=44.6.
GUC Error ellipse: s-maj=4.1km s-min=22.8km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Hualpen, La Laja and Talcahuano; [II] at Chiguayante, San Pedro de la Paz and Tome. After GUC.

GUC II 12 15 09 39.7–.54 36.67S 73.20W 38–4 3.6L ¶601516558

GUC Error ellipse: s-maj=2.4km s-min=4.3km az=-1.0.

ISC II 12 15 25 05.8–.41 37.12S–.05 73.83W–.07 35 4.7b,4.2s 125 1-174
IDC II 12 15 25 00.7–.73 37.22S 73.74W 0 4.5,4.4 **¶16022450**
MOS II 12 15 25 00.7–3.6 37.22S 73.74W 33 5.0b,4.4
GUC II 12 15 25 02.5–.66 37.04S 74.10W 25–13 4.5L,4.4
NEIC II 12 15 25 02.0 37.04S 74.09W 25 4.8b,4.5L
BJI II 12 15 25 03.3 37.75S 74.02W 27 5.6s,5.5b
ISCJB II 12 15 25 04.3–.32 37.20S–.04 73.70W–.05 33 4.7b,4.1s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Concepcion; [III] at Hualpen, Penco, San Pedro de la Paz and Talcahuano; [II] at Chiguayante. After GUC.
ISCJB Event type fe.

GUC II 12 15 40 48.9–.60 36.39S 73.18W 12–6 3.6L ¶601516559

GUC Error ellipse: s-maj=2.6km s-min=8.0km az=-1.0.

ISC II 12 17 59 04.8–2.0 36.36S–.06 73.5W–.10 27 20 1-9
GUC II 12 17 59 04.5–.70 36.36S 73.53W 34–15 3.8L **¶601516560**
ISC Event type ke.
GUC Error ellipse: s-maj=3.1km s-min=6.2km az=-1.0.

ISC II 12 18 27 17.7–2.1 36.59S–.06 73.3W–.10 10–13 15 0-8
GUC II 12 18 27 17.0–.46 36.78S 73.31W 43–4 3.9L **¶601516561**
ISC Event type ke.
GUC Error ellipse: s-maj=3.0km s-min=4.7km az=-1.0.

ISC II 12 19 51 01.1–3.7 32.85S–.04 71.19W–.07 11–26 31 1-6
SJA II 12 19 50 59.9–.60 32.79S 71.33W 33 3.8W,3.8L **¶601516562**
ISCJB II 12 19 51 01.1–1.1 32.79S–.04 71.34W–.07 28–8 3.8W,3.8L
GUC II 12 19 51 02.7–.54 32.84S 70.87W 72–6 4.4L,3.8L
ISC Event type ke.
SJA Error ellipse: s-maj=4.2km s-min=4.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.7km az=13.1.
GUC Error ellipse: s-maj=4.4km s-min=12.1km az=-1.0.

ISC II 12 20 57 34.6–.90 28.20S–.07 71.50W–.08 10 3.8b 21 1-152
IDC II 12 20 57 31.0–1.1 28.42S 71.16W 0 4.0,3.7 **¶17192128**
ISCJB II 12 20 57 33.4–.90 28.13S–.07 71.52W–.09 10 3.6b,3.7
SJA II 12 20 57 36.1–.82 28.27S 71.35W 20–6 3.5L,3.4W
ISC Event type ke.
IDC Error ellipse: s-maj=54.9km s-min=42.1km az=31.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.4km az=147.3.
SJA Error ellipse: s-maj=6.3km s-min=8.8km az=-1.0.

ISC II 13 02 38 02.1–4.4 36.8S–.20 73.8W–.20 35 10 1-7
GUC II 13 02 38 02.4–.35 36.68S 73.63W 24–5 3.3L **¶601516564**
ISC Event type ke.
GUC Error ellipse: s-maj=3.2km s-min=3.4km az=-1.0.

ISC II 13 03 31 33.9–.72 36.64S–.04 73.36W–.08 27 4.1b 42 0-157
IDC II 13 03 31 29.8–1.4 36.55S 73.40W 0 3.9,3.8L **¶16196688**
ISCJB II 13 03 31 33.0–.49 36.56S–.04 73.35W–.06 27 4.0b,3.6s
GUC II 13 03 31 33.6–.37 36.58S 73.41W 6–2 4.0L,3.6s
NEIC II 13 03 31 33.0 36.58S 73.41W 6 4.2b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=45.0km s-min=19.5km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=167.4.
GUC Error ellipse: s-maj=1.0km s-min=3.5km az=-1.0.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, Penco, Talcahuano and Tome. After GUC.

ISC II 13 03 52 22.2–1.1 30.27S–.05 71.50W–.09 35 3.4b 24 0-151
GUC II 13 03 52 23.3–.33 30.20S 71.17W 63–2 3.7L **¶601516568**
IDC II 13 03 52 23.2–1.2 32.21S 69.59W 59–8 3.5,3.5
ISCJB II 13 03 52 24.5–1.1 30.20S–.04 71.3W–.10 35 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.

ISC II 13 08 51 34.7–.55 36.59S–.03 73.41W–.04 28–3 5.7s,5.4b 952 0-178
IDC II 13 08 51 30.3–.44 36.62S 73.30W 0 5.6,5.6s **¶16022457**
GUC II 13 08 51 31.6–.31 36.67S 73.74W 21–2 5.7W,5.6L
NEIC II 13 08 51 34.0–.53 36.57S 73.18W 21–3 5.8W,5.7s
MOS II 13 08 51 34.8–1.1 36.54S 73.34W 33 5.6b,5.6s
GCMT II 13 08 51 34.0–.10 36.78S 73.61W 16–0 5.9W,5.6s
ISCJB II 13 08 51 34.5–.60 36.58S–.03 73.35W–.06 40–5 5.7s,5.3b
BJI II 13 08 51 35.1 36.50S 73.20W 30 5.9s,5.8
ISC Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=11.0km az=79.0.
GUC Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=69.0. Felt [V] at Arauco, Cobquecura, Concepcion, Coronel, Lebu, Penco, Quirihue, Talcahuano, Tome and Yumbel; [IV] in much of Araucania and Bio-Bio; [II] as far as Santiago and Valdivia. Also felt at Mendoza and San Carlos de Bariloche, Argentina. Moment Tensor Solution. s64 Moment tensor: Scale 10^{17}Nm; M_{rr}2.92 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-4.29 $M_{r\theta}$-0.29 $M_{\theta\phi}$0.43 $M_{\phi r}$-3.87

Best double couple: NP1:ϕ_s184.00000°,δ69.00000°,λ98.00000°. NP2:ϕ_s342.00000°,δ23.00000°,λ69.00000°. Principal axes: T 4.6100,Plg23.0000°,Azm94.0000°; N 1.4000,Plg0.0000°,Azm4.0000°; P -6.0000,Plg67.0000°,Azm274.0000° M_o5.40000×10^{17}

MOS Error ellipse: s-maj=15.7km s-min=7.0km az=101.2.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c210; s124,c315;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}3.28±.05 $M_{\theta\theta}$-0.00±.03; $M_{\phi\phi}$-3.28±.04; $M_{r\theta}$-0.15±.10; $M_{\theta\phi}$-0.41±.03; $M_{\phi r}$-8.14±.30; Best double couple: NP1: ϕ_s182.00000°,δ79.00000°,λ88.00000°. NP2:ϕ_s13.00000°,δ11.00000°,λ101.00000°. Principal axes: T 8.7770,Plg56.0000°,Azm89.0000°; N 0.0170,Plg2.0000°,Azm182.0000°; P -8.7970,Plg34.0000°,Azm273.0000° M_o8.78700×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=170.8.

ISC	**II**	**13 09 13 02.0–2.9**	**36.72S–.09**	**73.5W–.20**	**27**		**12**	**0-7**	
GUC	II	13 09 13 03.3–.45	36.66S	73.43W	12–7	3.4L			**¶601516575**

ISC Event type ke.

GUC Error ellipse: s-maj=4.6km s-min=5.9km az=-1.0.

ISC	**II**	**13 10 35 07.3–.53**	**36.71S–.03**	**73.38W–.04**	**23–3**	**5.9s,5.6b**	**1239**	**0-178**	
NEIC	II	13 10 35 06.7–.15	36.65S	73.18W	17	6.0W,5.9W			**¶16022458**
GCMT	II	13 10 35 06.7–.10	36.83S	73.74W	14–0	5.9W,5.9W			
ISCJB	II	13 10 35 07.0–.58	36.67S–.02	73.38W–.03	32–4	5.8s,5.5b			
BJI	II	13 10 35 07.6	36.70S	73.15W	30	6.0s,5.9			
GUC	II	13 10 35 07.7–.43	36.76S	73.41W	36–1	5.6L,5.9			
MOS	II	13 10 35 08.9–1.3	36.59S	73.32W	38	5.8b,5.8s			
IDC	II	13 10 35 08.5–1.6	36.79S	73.55W	35–11	5.8s,5.7			
NEIC	II	13 10 35 24.0–.00	36.42S	73.13W	10	5.8s,5.7			

ISC Event type fe.

NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=72.0. Felt [VI] at Chiguayante, Concepcion, Coronel, Penco and Talcahuano; [V] at Cauquenes, Chillan, Contulmo, Hualpencillo, Lebu, San Pedro and Tome; [II] as far as Curico and Valdivia. Also felt at Neuquen, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. M_o2.00000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ69.00000°,λ101.00000°. NP2:ϕ_s344.00000°,δ23.00000°,λ63.00000°. Principal axes: T 0.9700,Plg64.0000°,Azm121.0000°; N 0.1100,Plg10.0000°,Azm9.0000°; P -1.0800,Plg23.0000°,Azm275.0000°

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c235; s131,c389;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.57±.01 $M_{\theta\theta}$0.00±.00; $M_{\phi\phi}$-0.58±.01; $M_{r\theta}$-0.05±.01; $M_{\theta\phi}$-0.08±.00; $M_{\phi r}$-0.80±.02; Best double couple: NP1: ϕ_s184.00000°,δ72.00000°,λ88.00000°. NP2:ϕ_s12.00000°,δ18.00000°,λ97.00000°. Principal axes: T 0.9870,Plg63.0000°,Azm91.0000°; N 0.0130,Plg2.0000°,Azm185.0000°; P -1.0010,Plg27.0000°,Azm276.0000° M_o0.99400×10^{18}

ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.9km az=7.6.

GUC Error ellipse: s-maj=1.2km s-min=3.2km az=-1.0.

MOS Error ellipse: s-maj=14.1km s-min=6.3km az=100.8.

IDC Error ellipse: s-maj=14.1km s-min=8.1km az=85.0.

NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{18}Nm; M_{rr}0.52 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-0.63 $M_{r\theta}$-0.60 $M_{\theta\phi}$-0.06 $M_{\phi r}$-1.03 Best double couple: NP1:ϕ_s207.00000°,δ78.00000°,λ102.00000°. NP2:ϕ_s342.00000°,δ17.00000°,λ46.00000°. Principal axes: T 1.3300,Plg55.0000°,Azm132.0000°; N 0.0000,Plg12.0000°,Azm25.0000°; P -1.3300,Plg32.0000°,Azm288.0000° M_o1.30000×10^{18}

ISC	**II**	**13 10 41 40.7–.95**	**36.73S–.08**	**73.56W–.08**	**27**	**4.4b**	**15**	**0-159**	
IDC	II	13 10 41 37.3–1.7	36.75S	73.35W	0	4.3L,4.2			**¶16160036**
ISCJB	II	13 10 41 38.5–.84	36.77S–.07	73.71W–.07	27	4.2b,4.2			
GUC	II	13 10 41 38.9–.35	36.73S	73.65W	18–3	4.3L,4.2			
NEIC	II	13 10 41 38.0	36.72S	73.64W	18	4.6b,4.3L			

ISC Event type fe.

IDC Error ellipse: s-maj=59.6km s-min=20.0km az=67.0.

ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=8.4km az=11.4.

GUC Error ellipse: s-maj=2.6km s-min=2.6km az=-1.0.

NEIC Event type fe. Felt [V] at Chillan; [IV] at Concepcion, La Laja, Lebu, Los Angeles, Penco and San Rosendo; [III] at Arauco, Contulmo, Talcahuano and Tirua. After GUC.

ISC	**II**	**13 10 55 31.6–.95**	**36.66S–.06**	**73.39W–.09**	**27**	**4.0b**	**23**	**0-86**	
IDC	II	13 10 55 27.8–1.2	36.62S	73.39W	0	4.1,3.9			**¶16160037**
ISCJB	II	13 10 55 30.0–.68	36.63S–.05	73.43W–.07	27	4.0b,3.9			
GUC	II	13 10 55 32.8–.50	36.64S	73.26W	7–6	4.0L,3.9			
NEIC	II	13 10 55 32.0	36.63S	73.26W	7	4.5b,4.0L			
SJA	II	13 10 56 11.0–.82	33.85S	71.06W	10	3.4L,4.0L			

ISC Event type fe.

IDC Error ellipse: s-maj=49.7km s-min=19.2km az=65.0.

ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.7km az=153.2.

GUC Error ellipse: s-maj=1.1km s-min=6.2km az=-1.0.

NEIC Event type fe. Felt [III] at Arauco, Concepcion, Coronel, Hualpencillo, Hualqui, Penco, San Pedro, Talcahuano and Tome. After GUC.

SJA Error ellipse: s-maj=77.5km s-min=87.8km az=-1.0.

ISC	**II**	**13 11 09 03.6–1.1**	**36.64S–.10**	**73.7W–.10**	**10**	**3.9b**	**20**	**4-159**	
ISCJB	II	13 11 09 02.0–.83	36.66S–.08	73.5W–.10	10	3.8b			**¶16160038**
IDC	II	13 11 09 01.5–1.2	36.73S	73.59W	0	4.2,4.2L			
NEIC	II	13 11 09 06.0–4.0	36.67S	73.50W	28–28	4.0b,4.2L			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=10.7km az=23.4.

IDC Error ellipse: s-maj=39.6km s-min=19.7km az=63.0.

NEIC Event type se. Error ellipse: s-maj=27.3km s-min=11.7km az=83.0.

ISC	**II**	**13 11 15 44.1–1.5**	**36.70S–.10**	**73.7W–.10**	**27**		**14**	**2-86**	
SJA	II	13 11 15 37.5–.63	36.60S	73.96W	10	3.9W,3.9L			**¶17192150**
IDC	II	13 11 15 40.0–1.9	36.73S	73.56W	0	3.8,3.7			
ISCJB	II	13 11 15 42.1–1.2	36.73S–.08	73.6W–.20	27	3.7b,3.7			

ISC Event type ke.

ISCJB Event type ke.

ISC	**II**	**13 12 08 18.8–.55**	**36.74S–.06**	**73.47W–.07**	**27**	**4.3b,4.1s**	**50**	**0-174**	
IDC	II	13 12 08 14.6–.95	36.70S	73.36W	0	4.3,4.3L			**¶16024733**
GUC	II	13 12 08 15.8–.49	36.72S	73.60W	12	4.5L,4.3L			
NEIC	II	13 12 08 15.0	36.72S	73.60W	12	4.7b,4.5L			
ISCJB	II	13 12 08 17.1–.52	36.73S–.06	73.55W–.06	27	4.3b,4.0s			
BJI	II	13 12 08 17.3	36.60S	73.40W	10	5.9s,5.9			

ISC Event type fe.

IDC Error ellipse: s-maj=29.5km s-min=17.6km az=64.0.

GUC Error ellipse: s-maj=2.3km s-min=4.5km az=-1.0.

NEIC Event type fe. Felt [III] at Chiguayante, Concepcion, Coronel, Hualpen, Lota, Penco, San Pedro and Talcahuano; [II] at Cauquenes, Cobquecura, Empedrado, Renaico and Temuco. After GUC.

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.6km az=24.6.

ISC	**II**	**13 13 44 37.6–.23**	**36.59S–.03**	**73.46W–.04**	**27**	**5.3b,5.3s**	**944**	**0-178**	
IDC	II	13 13 44 33.2–.40	36.72S	73.46W	0	5.3,5.3s			**¶601516583**
ISCJB	II	13 13 44 36.6–.15	36.48S–.03	73.23W–.05	27	5.3s,5.3b			
BJI	II	13 13 44 36.8	36.27S	72.84W	29	5.7s,5.5			
GUC	II	13 13 44 36.3–.71	36.61S	73.49W	7–105	5.1L,5.5			
GCMT	II	13 13 44 36.4–.10	36.75S	73.74W	18–0	5.6W,5.5			
NEIC	II	13 13 44 36.5–.83	36.56S	73.28W	19–4	5.5W,5.4b			
MOS	II	13 13 44 38.0–1.2	36.49S	73.37W	33	5.5b,5.2s			

ISC Event type fe.

IDC Error ellipse: s-maj=17.2km s-min=11.3km az=105.0.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.7km az=155.0.

GUC Error ellipse: s-maj=15.5km s-min=119.5km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c151; s106,c208;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.72±.04 $M_{\theta\theta}$-0.00±.02; $M_{\phi\phi}$-1.71±.03; $M_{r\theta}$-0.17±.06; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$-2.99±.14; Best double couple: NP1: ϕ_s184.00000°,δ75.00000°,λ89.00000°. NP2:ϕ_s9.00000°,δ15.00000°,λ95.00000°. Principal axes: T 3.4530,Plg60.0000°,Azm92.0000°; N 0.0130,Plg1.0000°,Azm184.0000°; P -3.4590,Plg30.0000°,Azm275.0000° M_o3.45600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=69.0. Felt [VI] at Chiguayante, Concepcion, Hualpen, Penco and Talcahuano; [V] at Arauco and Coronel; [IV] at Chillan, Chillan Viejo, Cobquecura, Colbun, Linares, Los Alamos, Parral and Quirihue. Felt as far as Constitucion and Temuco. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}1.33 $M_{\theta\theta}$0.54 $M_{\phi\phi}$-1.87 $M_{r\theta}$0.03 $M_{\theta\phi}$0.12 $M_{\phi r}$-1.54 Best double couple: NP1:ϕ_s179.00000°,δ67.00000°,λ92.00000°. NP2:ϕ_s354.00000°,δ23.00000°,λ86.00000°. Principal axes: T 1.9500,Plg22.0000°,Azm92.0000°; N 0.5400,Plg3.0000°,Azm1.0000°; P -2.4900,Plg68.0000°,Azm262.0000° M_o2.30000×10^{17}

MOS Error ellipse: s-maj=15.7km s-min=6.9km az=103.5.

ISC	**II**	**13 14 44 41.3–.91**	**36.36S–.06**	**73.16W–.09**	**27**	**3.8b**	**13**	**0-89**	
IDC	II	13 14 44 37.5–1.3	36.33S	73.32W	0	3.9,3.8			**¶17192157**
ISCJB	II	13 14 44 39.5–.73	36.43S–.05	73.28W–.08	27	3.8b,3.8			
GUC	II	13 14 44 40.2–.59	36.45S	73.19W	7–7	3.5L,3.8			

ISC Event type ke.

IDC Error ellipse: s-maj=46.1km s-min=20.2km az=70.0.

ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.9km az=178.3.

GUC Error ellipse: s-maj=2.3km s-min=6.7km az=-1.0.

ISC	**II**	**13 16 41 25.7–.88**	**37.08S–.10**	**73.99W–.07**	**10**	**4.2s,3.8b**	**16**	**1-160**	
ISCJB	II	13 16 41 22.4–.64	37.19S–.05	74.10W–.07	10	4.2s,3.9b			**¶16029793**
IDC	II	13 16 41 22.6–.92	37.21S	73.86W	0	4.2s,4.1L			
GUC	II	13 16 41 23.2–.37	37.08S	74.25W	30–31	4.6L,4.1L			
NEIC	II	13 16 41 24.2–.49	37.23S	73.91W	10	4.8b,4.6L			

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.4km az=36.5.

IDC Error ellipse: s-maj=25.8km s-min=17.5km az=58.0.

GUC Error ellipse: s-maj=4.7km s-min=8.6km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=13.8km s-min=9.5km az=79.0. Felt [III] at Chiguayante, Concepcion, Hualpen, La Laja, Lebu, San Pedro de la Paz and Talcahuano; [II] at Constitucion, Coronel and Linares.

ISC	**II**	**13 17 54 20.9–.43**	**37.28S–.05**	**73.67W–.07**	**23**	**4.6b,4.0s**	**92**	**1-178**	
GUC	II	13 17 54 15.4–.48	37.39S	73.88W	7–6	4.7L,4.0s			**¶16024740**
NEIC	II	13 17 54 15.0	37.38S	73.87W	7	4.8b,4.7L			
IDC	II	13 17 54 18.5–.70	37.20S	73.68W	0	4.4,4.3			
ISCJB	II	13 17 54 20.0–.44	37.25S–.04	73.57W–.08	23	4.5b,4.1s			
BJI	II	13 17 54 22.0	37.20S	73.60W	27	5.5s,5.3			

ISC Event type fe.

GUC Error ellipse: s-maj=2.6km s-min=6.6km az=-1.0.

NEIC Event type fe. Felt [III] at Collipulli, Concepcion, Hualpen, Renaico, San Pedro de la Paz and Talcahuano; [II] at Arauco, Lebu, Parral, Puerto Saavedra and Tolten. After GUC.

IDC Error ellipse: s-maj=25.3km s-min=16.5km az=64.0.

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.0km az=6.0.

ISC	**II**	**13 20 20 52.4–1.4**	**36.28S–.06**	**73.86W–.09**	**10**		**15**	**1-50**	
ISCJB	II	13 20 20 51.4–1.2	36.16S–.05	73.92W–.09	10				**¶16362981**
NEIC	II	13 20 20 56.0	36.26S	73.62W	16	4.1L			
GUC	II	13 20 20 56.5–.53	36.26S	73.63W	16–4	4.1L			

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.4km az=155.4.

NEIC Event type fe. Felt [III] at Concepcion, Constitucion, Hualpen, Linares, Parral, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at La Laja. After GUC.

GUC Error ellipse: s-maj=2.1km s-min=4.3km az=-1.0.

ISC	**II**	**13 22 12 17.2–2.6**	**34.06S–.06**	**72.1W–.20**	**2–13**		**19**	**0-4**	
GUC	II	13 22 12 17.2–.51	34.03S	72.24W	15–3	4.1L			**¶601516587**

ISC Event type ke.

GUC Error ellipse: s-maj=1.5km s-min=5.3km az=-1.0.

ISC	**II**	**14 02 17 26.9–1.2**	**36.59S–.06**	**73.11W–.08**	**14–11**		**13**	**0-72**	
IDC	II	14 02 17 24.3–1.7	36.60S	73.00W	0	4.0,3.7L			**¶17192213**
ISCJB	II	14 02 17 26.3–1.1	36.66S–.05	73.2W–.10	22–8	3.7b,3.7L			
GUC	II	14 02 17 27.6–.50	36.65S	73.21W	22–2	3.8L,3.7L			

ISC Event type ke.

IDC Error ellipse: s-maj=81.2km s-min=20.5km az=71.0.

ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=8.1km az=19.4.

GUC Error ellipse: s-maj=2.0km s-min=3.3km az=-1.0.

IDC	**II**	**14 04 00 31.1–1.5**	**35.44S**	**73.00W**	**0**	**4.0,4.0b**			
									¶17192217

IDC Error ellipse: s-maj=46.1km s-min=19.4km az=75.0.

ISC	**II**	**14 04 08 26.1–1.6**	**37.0S–.20**	**73.5W–.30**	**10**	**4.0b**	**9**	**4-160**	
ISCJB	II	14 04 08 24.4–1.5	37.0S–.10	73.7W–.40	10	3.9b			**¶17192218**
IDC	II	14 04 08 24.6–1.5	37.01S	73.48W	0	4.1,4.0			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=46.6km s-min=16.1km az=163.4.

IDC Error ellipse: s-maj=48.8km s-min=19.0km az=68.0.

ISC	**II**	**14 04 56 52.8–.73**	**36.57S–.05**	**73.37W–.08**	**27**	**3.7b**	**22**	**0-159**	
ISCJB	II	14 04 56 51.8–.73	36.67S–.05	73.41W–.07	27	3.8b			**¶16304907**
GUC	II	14 04 56 52.7–.41	36.61S	73.29W	12–4	4.6L			
NEIC	II	14 04 56 52.0	36.61S	73.29W	12	4.6L			
IDC	II	14 04 56 53.6–1.1	36.32S	72.97W	22–5	4.3L,3.9			

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.7km az=11.7.

GUC Error ellipse: s-maj=2.3km s-min=3.7km az=-1.0.

NEIC Event type fe. Felt [III] at Arauco, Chiguayante, Concepcion, Penco and Talcahuano. After GUC.

IDC Error ellipse: s-maj=37.5km s-min=23.6km az=62.0.

ISC	**II**	**14 05 51 36.7–1.1**	**35.4S–.10**	**73.0W–.20**	**17**	**4.3b**	**18**	**6-156**	
ISCJB	II	14 05 51 34.7–1.2	35.44S–.10	73.0W–.30	17	4.2b			**¶17192224**
IDC	II	14 05 51 37.9–1.0	35.48S	73.08W	29–5	4.0,3.9			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=35.2km s-min=13.6km az=174.1.

IDC Error ellipse: s-maj=32.4km s-min=17.5km az=78.0.

GUC	**II**	**14 12 14 56.9–.58**	**35.64S**	**72.95W**	**55–6**	**4.0L**			
									¶601516591

GUC Error ellipse: s-maj=5.1km s-min=5.6km az=-1.0.

GUC	**II**	**14 23 52 56.2–.47**	**36.53S**	**73.24W**	**14–3**	**3.8L**			
									¶601516595

GUC Error ellipse: s-maj=1.4km s-min=3.3km az=-1.0.

ISC	**II**	**15 12 16 03.0–1.1**	**37.22S–.09**	**73.86W–.09**	**10**	**3.6b**	**12**	**1-151**	
ISCJB	II	15 12 16 01.3–1.1	37.25S–.09	74.0W–.10	10	3.4b			**¶17192302**
IDC	II	15 12 16 02.1–2.0	37.23S	73.70W	0	3.8,3.6			
GUC	II	15 12 16 04.3–.40	37.05S	73.91W	30	3.7L,3.6			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=9.0km az=137.1.

IDC Error ellipse: s-maj=73.5km s-min=21.1km az=63.0.

GUC Error ellipse: s-maj=3.4km s-min=3.6km az=-1.0.

GUC	**II**	**16 14 56 33.6–.66**	**34.21S**	**71.90W**	**35–10**	**3.6L**			
									¶601516607

GUC Error ellipse: s-maj=20.2km s-min=20.4km az=-1.0.

GUC	**II**	**16 19 28 14.2–.57**	**34.41S**	**72.13W**	**37–4**	**3.7L**			
									¶601516609

GUC Error ellipse: s-maj=5.7km s-min=5.6km az=-1.0.

ISC	**II**	**17 01 35 37.1–1.8**	**34.82S–.05**	**72.43W–.10**	**14–11**		**16**	**1-5**	
GUC	II	17 01 35 36.8–.38	34.74S	72.44W	46–2	3.5L			**¶601516611**
ISCJB	II	17 01 35 37.3–1.6	34.79S–.04	72.5W–.10	22–12	3.5L			

ISC Event type ke.

ISCJB Event type ke.

ISC	**II**	**17 04 22 35.5–1.2**	**36.59S–.05**	**73.3W–.10**	**27**	**3.7b**	**12**	**0-86**	
IDC	II	17 04 22 30.8–1.9	36.74S	73.71W	0	3.7,3.7			**¶17192399**
ISCJB	II	17 04 22 33.8–1.1	36.64S–.06	73.47W–.09	27	3.6b,3.7			
GUC	II	17 04 22 34.8–.34	36.55S	73.35W	10–4	3.6L,3.7			

ISC Event type ke.

IDC Error ellipse: s-maj=60.2km s-min=21.9km az=65.0.

ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.3km az=4.6.

GUC Error ellipse: s-maj=0.7km s-min=5.4km az=-1.0.

ISC	**II**	**18 22 29 37.9–1.6**	**34.57S–.06**	**72.24W–.08**	**13–8**	**4.3b**	**36**	**0-157**	
IDC	II	18 22 29 36.2–1.0	34.51S	72.07W	0	4.1b,4.1			**¶16342613**
ISCJB	II	18 22 29 37.8–1.4	34.58S–.05	72.28W–.08	19–10	4.0b,3.3s			
GUC	II	18 22 29 38.4–.43	34.54S	72.26W	12–1	4.3L,3.3s			
NEIC	II	18 22 29 38.0	34.54S	72.26W	12	4.4b,4.3L			

ISC Event type fe.

IDC Error ellipse: s-maj=41.4km s-min=27.6km az=70.0.

ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.0km az=25.7.

GUC Error ellipse: s-maj=1.4km s-min=3.1km az=-1.0.

NEIC Event type fe. Felt [V] at Pichilemu, [IV] at Navidad and Paredones, [III] at San Pedro and [II] at Melipilla. After GUC.

GUC	**II**	**19 05 01 15.3–.55**	**34.85S**	**72.44W**	**18–3**	**3.5L**			
									¶601516633

GUC Error ellipse: s-maj=2.6km s-min=5.4km az=-1.0.

ISC	**II**	**19 06 26 32.9–1.0**	**34.02S–.03**	**72.17W–.05**	**17–5**	**5.2b,4.8s**	**749**	**0-179**	
IDC	II	19 06 26 29.8–.49	34.01S	72.19W	0	4.8L,4.7			**¶16056977**
GCMT	II	19 06 26 31.0–.20	34.05S	72.33W	21–0	5.2W,4.7			
NEIC	II	19 06 26 31.0	34.03S	72.23W	16	5.2L,5.2b			
GUC	II	19 06 26 31.5–.52	34.03S	72.23W	16–6	5.2L,5.2b			
ISCJB	II	19 06 26 31.6–1.1	34.02S–.03	72.30W–.04	18–7	5.0b,4.7s			
BJI	II	19 06 26 32.0	34.64S	72.45W	18	5.4s,5.3			

MOS II 19 06 26 33.4–1.2 34.01S 72.06W 25 5.3b,5.3
ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=14.3km az=86.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c94; s84,c125; Duration: 1$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.55±.02 $M_{\theta\theta}$0.06±.01; $M_{\phi\phi}$-0.61±.02; $M_{r\theta}$0.06±.02; $M_{\theta\phi}$0.03±.01; $M_{\phi r}$-0.67±.04; Best double couple: NP1:ϕ_s176.00000°,δ69.00000°,λ89.00000°. NP2:ϕ_s360.00000°,δ21.00000°,λ94.00000°. Principal axes: T 0.8570,Plg66.0000°,Azm83.0000°; N 0.0580,Plg1.0000°,Azm176.0000° ; P -0.9160,Plg24.0000°,Azm267.0000° M_o0.88700×10^{17}
NEIC Event type fe. Felt [III] at Navidad, Paredones, Pichilemu, San Antonio, Santa Cruz and Talca; [II] at Curico, Iloca, Linares, Parral, Quillota, Rancagua, San Fernando, Santiago and Vina del Mar. Also felt at Graneros, Melipilla, Rengo and Valparaiso. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=5.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.8km az=8.1.
MOS Error ellipse: s-maj=16.9km s-min=8.4km az=98.8.
ISC II 19 21 36 44.7–2.1 34.87S–.05 72.7W–.10 7–13 20 1-5
GUC II 19 21 36 46.4–.38 34.79S 72.69W 34–1 3.6L **¶601516638**
ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
GUC II 19 23 58 49.8–.53 34.72S 71.77W 43–5 3.2L
¶601516640
GUC Error ellipse: s-maj=4.4km s-min=6.1km az=-1.0.
ISC II 20 00 10 46.6–.62 34.68S–.04 72.56W–.08 21–4 4.0b 43 1-158
ISCJB II 20 00 10 44.3–1.6 34.63S–.04 72.73W–.08 15–11 4.0b **¶16363002**
NEIC II 20 00 10 45.0 34.61S 72.61W 30 4.5L,4.0b
GUC II 20 00 10 45.0–.72 34.61S 72.61W 30–5 4.5L,4.0b
IDC II 20 00 10 48.8–5.0 34.70S 72.57W 36–38 4.0,4.0L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=6.2km az=13.4.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.0km s-min=5.3km az=-1.0.
IDC Error ellipse: s-maj=38.8km s-min=26.4km az=95.0.
GUC II 20 00 15 45.3–.45 35.06S 72.17W 22–3 3.5L
¶601516641
GUC Error ellipse: s-maj=2.8km s-min=4.4km az=-1.0.
ISC II 20 06 10 23.5–1.8 34.02S–.04 72.40W–.06 2–11 4.1b 42 0-157
IDC II 20 06 10 25.6–1.2 34.05S 71.91W 0 4.1,3.9 **¶16166736**
ISCJB II 20 06 10 26.1–1.7 34.01S–.03 72.47W–.06 15–12 4.0b,3.7s
GUC II 20 06 10 26.8–.59 34.06S 72.23W 21–3 4.6L,3.7s
NEIC II 20 06 10 26.0 34.05S 72.23W 21 4.6L,4.2b
ISC Event type fe.
IDC Error ellipse: s-maj=39.3km s-min=26.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.5km az=1.0.
GUC Error ellipse: s-maj=1.7km s-min=3.8km az=-1.0.
NEIC Event type fe. Felt [III] at Quillota and [II] at San Antonio and Valparaiso. After GUC.
ISC II 20 14 58 56.2–2.4 34.01S–.05 72.34W–.09 10–14 3.7b 25 0-157
IDC II 20 14 58 54.7–.98 33.96S 72.41W 0 3.9,3.8 **¶17192589**
ISCJB II 20 14 58 55.9–1.5 34.06S–.05 72.47W–.07 20–11 3.9b,3.8
GUC II 20 14 58 58.1–.37 34.04S 72.15W 10–4 3.9L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=38.1km s-min=28.3km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.2km az=40.7.
GUC Error ellipse: s-maj=1.1km s-min=4.4km az=-1.0.
ISC II 20 23 23 13.9–.82 36.96S–.07 73.61W–.06 14 3.9b 38 0-160
GUC II 20 23 23 13.5–.41 37.15S 73.54W 14–2 4.4L **¶16363005**
IDC II 20 23 23 13.0–1.1 36.76S 73.52W 0 4.2,4.2s
NEIC II 20 23 23 13.0 37.15S 73.54W 14 4.4L,4.2s
ISC Event type fe.
GUC Error ellipse: s-maj=4.2km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=31.8km s-min=18.9km az=66.0.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, San Pedro de la Paz and Talcahuano; [II] at Arauco, Curanilahue, Hualpen, Lebu and Tome. After GUC.
ISC II 21 06 49 37.9–2.3 34.61S–.05 72.4W–.10 13–10 28 0-6
GUC II 21 06 49 36.7–.54 34.51S 72.46W 42–2 3.8L **¶601516657**
ISC Event type ke.
GUC Error ellipse: s-maj=2.7km s-min=4.8km az=-1.0.
ISC II 22 01 07 17.9–1.3 35.11S–.05 72.7W–.10 10 21 1-8
GUC II 22 01 07 17.9–.62 35.13S 72.55W 25–12 4.0L **¶601516662**
ISC Event type ke.
GUC Error ellipse: s-maj=2.8km s-min=7.5km az=-1.0.
ISC II 22 06 24 59.4–1.3 35.71S–.09 72.6W–.20 10 9 1-71
GUC II 22 06 24 47.5–.50 34.01S 75.03W 46–999 4.7L **¶17192681**
IDC II 22 06 24 58.4–1.6 35.69S 72.80W 0 3.8L,3.7
ISC Event type ke.
GUC Error ellipse: s-maj=35.7km s-min=999.9km az=-1.0.
IDC Error ellipse: s-maj=54.1km s-min=20.8km az=78.0.
ISC II 22 16 39 32.0–1.8 29.07S–.03 71.73W–.07 2–11 32 1-153
IDC II 22 16 39 31.9–1.3 29.18S 71.64W 0 4.3b,4.0 **¶17192716**
GUC II 22 16 39 36.9–.44 29.22S 71.54W 48–4 4.6L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=50.7km s-min=40.2km az=117.0.
GUC Error ellipse: s-maj=1.2km s-min=5.8km az=-1.0.
GUC II 23 07 22 00.6–.57 36.22S 73.63W 40–7 4.0L
¶601516668
GUC Error ellipse: s-maj=3.2km s-min=5.9km az=-1.0.
ISC II 23 10 46 48.6–.65 36.10S–.06 73.51W–.08 35 4.3b,3.9s 30 1-159
IDC II 23 10 46 44.6–.92 36.04S 73.32W 0 4.2,4.2L **¶16155402**
NEIC II 23 10 46 45.0 36.19S 73.69W 21 4.5L,4.4b
GUC II 23 10 46 45.2–.50 36.19S 73.69W 21–5 4.5L,4.4b
ISCJB II 23 10 46 46.9–.50 36.13S–.06 73.52W–.07 33 4.1b,3.9s
ISC Event type fe.
NEIC Event type fe. Felt [II] at Talcahuano. After GUC.
ISCJB Event type fe.
ISC II 23 11 03 54.6–.48 36.12S–.06 73.38W–.08 35 4.5b,3.8s 64 0-174
IDC II 23 11 03 50.2–.80 36.07S 73.38W 0 4.4,4.4L **¶16155403**
ISCJB II 23 11 03 52.8–.44 36.17S–.05 73.48W–.06 33 4.5b,3.7s
GUC II 23 11 03 52.8–.56 36.17S 73.49W 50–5 4.8L,3.7s
BJI II 23 11 03 53.2 37.02S 72.81W 35 5.6s,5.3
NEIC II 23 11 03 54.7–2.8 36.16S 73.42W 34–19 4.8L,4.6b
ISC Event type fe.
IDC Error ellipse: s-maj=28.7km s-min=21.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.1km az=136.8.
GUC Error ellipse: s-maj=7.0km s-min=10.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.7km s-min=7.5km az=80.0. Felt [III] at Cobquecura and Concepcion; [II] at Chiguayante, Penco, San Pedro de la Paz and Talcahuano. Also felt at Tome.
ISC II 23 17 05 00.1–.00 36.26S–.07 73.46W–.09 35 3.8b 14 1-94
IDC II 23 17 04 55.7–1.2 36.23S 73.44W 0 4.2L,4.1 **¶16349991**
GUC II 23 17 04 57.6–.39 36.25S 73.62W 8–2 4.3L,4.1
ISCJB II 23 17 04 59.0–.74 36.30S–.06 73.50W–.08 35 4.0s,3.8b
NEIC II 23 17 04 58.2–7.2 36.18S 73.33W 15–46 4.3L,3.8b
ISC Event type fe.
IDC Error ellipse: s-maj=41.0km s-min=20.1km az=69.0.
GUC Error ellipse: s-maj=1.6km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=7.7km az=144.8.
NEIC Event type fe. Error ellipse: s-maj=28.9km s-min=12.6km az=82.0. Felt [IV] at Cobquecura and [III] at Concepcion, Coronel, Penco, San Pedro de la Paz, Talcahuano and Tome.
ISC II 24 04 36 53.9–.33 36.08S–.04 73.31W–.07 35 4.9b,4.5s 304 1-178
NEIC II 24 04 36 48.0 36.27S 73.81W 33 5.0b,4.8L **¶16153246**
GUC II 24 04 36 48.7–.53 36.27S 73.81W 33–19 4.8L,4.8L
GCMT II 24 04 36 48.0–.30 36.29S 73.82W 20–1 5.1W,4.8L
IDC II 24 04 36 48.5–.78 36.07S 73.39W 0 4.8,4.7
BJI II 24 04 36 50.5 35.55S 73.39W 24 5.4,5.4b
MOS II 24 04 36 51.1–1.2 36.17S 73.30W 25 5.0b,5.4b
ISCJB II 24 04 36 51.7–.19 36.14S–.03 73.29W–.06 33 4.9b,4.5s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Concepcion, Quirihue, Talcahuano and Tome; [III] at Chiguayante, Penco and San Pedro de la Paz. Also felt at Arauco. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c45; s62,c75;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.06±.25 $M_{\theta\theta}$0.63±.15; $M_{\phi\phi}$-3.69±.18; $M_{r\theta}$2.67±.40; $M_{\theta\phi}$-0.02±.10; $M_{\phi r}$-3.35±.35; Best double couple: NP1:ϕ_s152.00000°,δ73.00000°,λ69.00000°. NP2:ϕ_s24.00000°,δ27.00000°,λ139.00000°. Principal axes: T 5.6770,Plg57.0000°,Azm34.0000°; N -0.4160,Plg20.0000°,Azm159.0000° ; P -5.2610,Plg25.0000°,Azm258.0000° M_o5.46900×10^{16}
ISCJB Event type fe.
GUC II 26 06 11 41.1–.26 32.27S 71.71W 12–5 3.6L
¶601516693
GUC Error ellipse: s-maj=4.6km s-min=3.8km az=-1.0.
GUC II 26 06 28 23.2–.32 32.27S 71.70W 11–6 3.5L
¶601516694
GUC Error ellipse: s-maj=6.0km s-min=5.4km az=-1.0.
ISC II 26 18 24 29.9–1.6 33.72S–.05 71.91W–.08 10–11 22 1-7
GUC II 26 18 24 29.4–.61 33.71S 71.95W 13–9 3.6L **¶601516700**
SJA II 26 18 24 52.3–.94 32.85S 70.64W 10–10 3.1W,3.1L
ISC Event type ke.
GUC Error ellipse: s-maj=3.2km s-min=5.8km az=-1.0.
SJA Error ellipse: s-maj=9.6km s-min=5.2km az=-1.0.
ISC II 26 18 41 10.7–2.2 34.88S–.06 72.81W–.09 24–14 4.0b 29 1-158
IDC II 26 18 41 07.1–1.3 34.91S 72.61W 0 4.1,4.0b **¶16399006**
ISCJB II 26 18 41 09.3–1.4 34.87S–.06 72.86W–.08 26–10 4.1b,4.0b
GUC II 26 18 41 09.9–.38 34.89S 72.79W 31–3 4.4L,4.0b
NEIC II 26 18 41 09.4–5.8 34.86S 72.48W 13–37 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=44.6km s-min=26.2km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=8.8km az=24.9.
GUC Error ellipse: s-maj=2.8km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=27.1km s-min=11.3km az=84.0.
GUC II 26 21 16 00.5–.50 34.95S 72.78W 26–3 3.6L
¶601516702
GUC Error ellipse: s-maj=4.1km s-min=5.3km az=-1.0.
ISC II 27 10 48 59.9–1.2 38.02S–.06 73.6W–.10 22 3.8b 14 1-151
IDC II 27 10 48 57.4–1.8 38.01S 73.24W 0 4.0,3.9 **¶17192946**
ISCJB II 27 10 48 58.1–1.0 38.06S–.06 73.7W–.20 22 4.0s,3.9b
GUC II 27 10 48 58.5–.35 37.94S 74.03W 37–2 4.1L,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=18.6km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=7.7km az=13.0.
GUC Error ellipse: s-maj=3.7km s-min=5.9km az=-1.0.
ISC II 28 01 29 25.6–.21 37.28S–.04 73.43W–.04 23 5.7s,5.7b 1115 0-178
IDC II 28 01 29 22.1–.43 37.44S 73.29W 0 5.5,5.5s **¶16160700**
ISCJB II 28 01 29 24.7–.17 37.25S–.03 73.31W–.04 23 5.7s,5.6b
NEIC II 28 01 29 25.0 37.36S 73.70W 32 5.9L,5.8W
GCMT II 28 01 29 25.0–.10 37.46S 73.69W 25–0 5.8W,5.8W
GUC II 28 01 29 25.2–.57 37.36S 73.70W 32–6 5.9W,5.9L
MOS II 28 01 29 26.9–1.1 37.23S 73.46W 34 5.8b,5.6s
BJI II 28 01 29 26.1 36.73S 73.73W 31 5.8s,5.7
ISC Event type fe.
IDC Error ellipse: s-maj=17.4km s-min=14.1km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.3km az=41.8.
NEIC Event type fe. Felt [VI] at Arauco, Chillan, Los Alamos, Lota and San Pedro de la Paz; [V] at Angol, Chiguayante, Colbun, Concepcion, Constitucion, Coronel, Curanilahue, Lebu, Linares, Longavi, Parral, Penco, Renaico, Retiro, Talcahuano and Tome. Felt widely in central Chile from Santiago to Valdivia. After GUC. Moment Tensor Solution. s65 Moment tensor: Scale 10^{17}Nm; M_{rr}3.49 $M_{\theta\theta}$1.10 $M_{\phi\phi}$-4.58 $M_{r\theta}$-0.49 $M_{\theta\phi}$2.31 $M_{\phi r}$-3.64 Best double couple: NP1: ϕ_s183.00000°,δ67.00000°,λ115.00000°. NP2:ϕ_s312.00000°,δ33.00000°,λ45.00000°. Principal axes: T 5.3100,Plg60.0000°,Azm129.0000°; N 1.2000,Plg23.0000°,Azm352.0000° ; P -6.5100,Plg19.0000°,Azm254.0000° M_o6.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c222; s126,c324;Duration: 2$\dot{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}3.43±.05 $M_{\theta\theta}$0.13±.03; $M_{\phi\phi}$-3.56±.04; $M_{r\theta}$0.17±.08; $M_{\theta\phi}$-0.16±.03; $M_{\phi r}$-5.62±.15; Best double couple: NP1: ϕ_s179.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s6.00000°,δ16.00000°,λ97.00000°. Principal axes: T 6.5610,Plg61.0000°,Azm86.0000°; N 0.1240,Plg2.0000°,Azm179.0000° ; P -6.6840,Plg29.0000°,Azm271.0000° M_o6.62200×10^{17}
GUC Error ellipse: s-maj=5.1km s-min=6.3km az=-1.0.
MOS Error ellipse: s-maj=15.2km s-min=7.0km az=101.5.
ISC II 28 10 27 15.7–.42 36.72S–.05 73.53W–.06 27 4.6b,4.3s 85 0-174
IDC II 28 10 27 11.2–.78 36.74S 73.47W 0 4.4,4.4L **¶16168948**
GUC II 28 10 27 12.3–.31 36.73S 73.66W 16–3 4.7L,4.4L
ISCJB II 28 10 27 14.2–.39 36.74S–.04 73.56W–.05 27 4.5b,4.2s
BJI II 28 10 27 14.7 36.32S 73.40W 29 5.4b,5.3s
NEIC II 28 10 27 16.9–.39 36.69S 73.42W 35 4.8b,4.7L
ISC Event type fe.
IDC Error ellipse: s-maj=26.5km s-min=19.2km az=73.0.
GUC Error ellipse: s-maj=2.4km s-min=2.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.8km az=165.2.
NEIC Event type fe. Error ellipse: s-maj=12.5km s-min=8.5km az=77.0. Felt [IV] at Chiguayante, Concepcion, Penco and Talcahuano; [III] at Cabrero, Coronel, Los Angeles, Lota, Quillon, Tome and Yumbel; [II] at Bulnes, Canete, Chillan, Cobquecura, Coelemu, Curanilahue, Lebu, Los Alamos and Mulchen. Also felt at Angol.
ISC III 01 04 08 41.2–.46 36.59S–.05 73.31W–.07 27 4.7b 236 0-178
IDC III 01 04 08 36.5–.77 36.59S 73.33W 0 4.3,4.2 **¶16168963**
GUC III 01 04 08 40.6–.38 36.71S 73.46W 13–3 4.6L,4.2
NEIC III 01 04 08 40.0 36.71S 73.46W 13 4.7b,4.6L
ISCJB III 01 04 08 40.0–.23 36.62S–.04 73.34W–.04 27 4.6b,4.6L
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Cauquenes, Chanco, Chiguayante, Cobquecura, Concepcion, Linares, Penco, Quirihue and Talcahuano; [III] at Angol, Arauco, Chillan, Coronel, Parral, Renaico, San Carlos and San Pedro; [II] at Curacautin and Curico. Also felt at Tome. After GUC.
ISCJB Event type fe.
ISC III 01 04 09 50.1–.91 36.74S–.08 73.34W–.09 27 4.2b 17 0-169
IDC III 01 04 09 44.3–4.1 37.13S 73.78W 0 4.5,4.2 **¶16349997**
NEIC III 01 04 09 48.0 36.74S 73.49W 12 4.5L,4.4b
ISCJB III 01 04 09 48.6–.83 36.75S–.08 73.42W–.07 27 4.2b,4.4b
GUC III 01 04 09 48.8–.41 36.74S 73.49W 12–3 4.5L,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=170.1km s-min=34.8km az=24.0.
NEIC Event type se. After GUC.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=8.0km az=3.7.
GUC Error ellipse: s-maj=3.6km s-min=3.6km az=-1.0.
GUC III 01 22 14 17.1–.61 35.06S 72.39W 15–4 3.6L
¶601516744
GUC Error ellipse: s-maj=3.7km s-min=5.2km az=-1.0.
GUC III 02 10 19 52.3–.57 38.69S 73.87W 27–5 3.8L
¶601516748
GUC Error ellipse: s-maj=1.6km s-min=14.1km az=-1.0.
ISC III 03 07 58 57.2–.58 37.26S–.03 73.44W–.05 31–3 5.1b,4.7s 713 0-178
IDC III 03 07 58 52.1–.53 37.24S 73.45W 0 5.1,5.0 **¶16176485**
NEIC III 03 07 58 53.0 37.34S 73.86W 18 5.5L,5.1b
GUC III 03 07 58 53.4–.46 37.34S 73.86W 18–3 5.5L,5.1b
GCMT III 03 07 58 53.0–.20 37.45S 73.83W 23–0 5.2W,5.1b
ISCJB III 03 07 58 55.6–1.1 37.25S–.03 73.42W–.05 31–7 5.1b,4.7s
BJI III 03 07 58 55.8 36.78S 73.76W 32 5.5b,5.5s
MOS III 03 07 58 56.7–1.3 37.13S 73.29W 33 5.3b,4.8s
ISC Event type fe.
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=67.0.
NEIC Event type fe. Felt [V] at Concepcion, Coronel, Hualpen, Lota and San Pedro de la Paz; [IV] at Arauco, Cabrero, Chiguayante, Chillan Viejo, Florida, La Laja, Penco and Talcahuano; [III] at Angol, Chillan, Curanilahue, Los Alamos, Los Sauces and Renaico; [II] at Collipulli. Also felt at Temuco. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=4.3km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c78; s78,c118; Duration: 1$\dot{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.46±.23 $M_{\theta\theta}$-0.25±.13; $M_{\phi\phi}$-5.21±.16; $M_{r\theta}$0.82±.20; $M_{\theta\phi}$0.21±.10; $M_{\phi r}$-5.52±.29; Best double couple: NP1:ϕ_s173.00000°,δ68.00000°,λ87.00000°. NP2:ϕ_s1.00000°,δ22.00000°,λ97.00000°. Principal axes: T 7.8580,Plg67.0000°,Azm78.0000°; N -0.2690,Plg3.0000°,Azm174.0000°; P -7.5880,Plg23.0000°,Azm266.0000° M_o7.72300×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=165.0.
MOS Error ellipse: s-maj=16.9km s-min=7.9km az=101.8.
ISC III 03 12 35 23.7–.86 37.28S–.08 73.69W–.10 23 4.0s,3.9b 31 1-160

IDC III 03 12 35 20.6–1.1 37.28S 73.44W 0 4.2,4.1s ¶16442179
NEIC III 03 12 35 22.0 37.12S 73.89W 34 4.3L,4.1s
ISCJB III 03 12 35 22.1–.72 37.27S–.06 73.7W–.10 23 4.2s,3.9b
GUC III 03 12 35 22.0–.61 37.12S 73.89W 34–4 4.3L,3.9b
ISC Event type fe.
IDC Error ellipse: s-maj=34.0km s-min=18.1km az=61.0.
NEIC Event type fe. Felt [III] at Arauco and Canete; [II] at Concepcion, Coronel, Penco, Talcahuano and Tome. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.3km az=31.4.
GUC Error ellipse: s-maj=5.7km s-min=5.2km az=-1.0.
ISC III 04 04 16 10.8–3.1 32.92S–.07 71.8W–.20 12–15 20 1-7
SJA III 04 04 16 12.8–1.0 32.63S 71.67W 10 3.0L,2.9W ¶16603328
GUC III 04 04 16 13.9–.36 32.68S 71.58W 42–42 2.9L,2.9W
ISC Event type ke.
SJA Error ellipse: s-maj=4.7km s-min=8.3km az=-1.0.
GUC Error ellipse: s-maj=8.4km s-min=15.6km az=-1.0.
ISC III 04 18 23 50.3–.54 37.43S–.04 73.66W–.09 35 4.5b,3.9s 66 1-175
IDC III 04 18 23 45.8–1.0 37.43S 73.64W 0 4.3,4.1 ¶16196359
GUC III 04 18 23 47.7–.63 37.22S 74.14W 44–5 4.3L,4.1
ISCJB III 04 18 23 48.0–.57 37.41S–.04 73.92W–.09 33 4.5b,3.9s
NEIC III 04 18 23 48.5–3.3 37.38S 73.82W 23–22 4.5b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=32.4km s-min=22.1km az=80.0.
GUC Error ellipse: s-maj=11.8km s-min=12.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=5.7km az=9.6.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=8.2km az=86.0.
ISC III 04 23 08 34.0–.90 28.41S–.04 71.22W–.07 40–7 4.5b 73 0-171
SJA III 04 23 08 25.2–.56 29.49S 71.34W 356–32 4.6L,4.3W ¶16196363
IDC III 04 23 08 28.1–.69 28.51S 71.14W 0 4.3,4.2b
GUC III 04 23 08 33.8–.87 28.41S 71.17W 42–4 4.5L,4.2b
NEIC III 04 23 08 33.0 28.41S 71.17W 42 4.5b,4.2b
ISCJB III 04 23 08 34.0–.59 28.44S–.03 71.15W–.07 53–5 4.3b,3.6s
ISC Event type fe.
NEIC Event type fe. Felt [II] at Caldera, Copiapo, Freirina, Huasco, La Higuera, Los Loros, Tierra Amarilla and Vallenar. After GUC.
ISCJB Event type fe.
ISC III 05 15 12 48.9–2.0 30.71S–.04 71.92W–.07 22–13 4.7b,4.1s 71 1-165
IDC III 05 15 12 45.8–.54 30.73S 71.78W 0 4.6,4.5 ¶16445693
NEIC III 05 15 12 49.0 30.72S 71.82W 42 4.6b,4.5
GUC III 05 15 12 49.4–.35 30.72S 71.82W 42–2 4.8L,4.5
ISCJB III 05 15 12 49.2–.41 30.69S–.03 71.96W–.05 33 4.5b,4.0s
ISC Event type fe.
NEIC Event type fe. Felt [III] at Coquimbo and La Serena. After GUC.
ISCJB Event type fe.
ISC III 05 20 12 33.2–.91 34.80S–.03 71.78W–.05 46–9 4.1b 37 0-84
SJA III 05 20 12 30.3–.61 34.85S 72.02W 62–16 4.0L,3.7W ¶16403014
GUC III 05 20 12 32.7–.38 34.78S 71.76W 50–1 4.1L,3.7W
ISCJB III 05 20 12 32.9–.42 34.83S–.03 71.74W–.07 58–5 4.0b,3.7W
NEIC III 05 20 12 34.7–1.3 34.80S 71.52W 59–13 4.0b,3.7W
IDC III 05 20 12 36.3–4.0 34.87S 71.52W 75–40 4.0L,3.9
ISC Event type fe.
SJA Error ellipse: s-maj=7.6km s-min=19.1km az=-1.0.
GUC Error ellipse: s-maj=0.7km s-min=1.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=4.4km az=18.9.
NEIC Event type fe. Error ellipse: s-maj=24.2km s-min=10.4km az=76.0. Felt [IV] at Curico and Romeral; [III] at Chimbarongo, Linares, Longavi, Pencahue, Rio Claro, San Fernando and Talca; [II] at Lolol and Santa Cruz.
IDC Error ellipse: s-maj=49.6km s-min=26.2km az=60.0.
ISC III 06 05 51 52.3–.76 31.60S–.03 71.4W–.10 25 4.0b 27 2-155
NEIC III 06 05 51 54.0 31.58S 71.37W 65 4.2 ¶16442192
GUC III 06 05 51 54.9–.55 31.58S 71.37W 65–26 4.2L
IDC III 06 05 51 55.6–.93 31.63S 71.31W 54–6 4.0,3.9
ISC Event type se.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=14.1km az=-1.0.
IDC Error ellipse: s-maj=27.2km s-min=24.4km az=176.0.
GUC III 06 07 54 33.0–.77 36.64S 73.24W 24–8 3.6L ¶601516765
GUC Error ellipse: s-maj=4.3km s-min=15.7km az=-1.0.
ISC III 06 08 40 50.7–1.4 34.57S–.04 71.52W–.05 11–12 19 0-6
GUC III 06 08 40 49.6–.62 34.66S 71.63W 45–6 3.5L ¶16603374
ISC Event type ke.
GUC Error ellipse: s-maj=5.7km s-min=6.8km az=-1.0.
ISC III 06 21 53 51.2–1.3 37.48S–.07 74.0W–.10 10 3.9b 13 1-151
ISCJB III 06 21 53 48.5–1.2 37.55S–.09 74.2W–.10 10 4.3s,3.8b ¶17193384
GUC III 06 21 53 49.4–.35 37.48S 74.14W 24–8 4.2L,3.8b
IDC III 06 21 53 52.5–3.2 37.39S 73.19W 0 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=9.2km az=34.2.
GUC Error ellipse: s-maj=4.1km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=91.1km s-min=18.4km az=74.0.
GUC III 08 16 55 05.3–.40 35.04S 72.18W 27–2 3.5L ¶601516795
GUC Error ellipse: s-maj=0.9km s-min=1.7km az=-1.0.
GUC III 09 00 39 32.2–.80 33.72S 71.48W 52–16 3.9L ¶601516801
GUC Error ellipse: s-maj=4.8km s-min=5.4km az=-1.0.
ISC III 10 06 45 50.1–1.3 34.61S–.03 71.81W–.05 2–10 19 0-84
GUC III 10 06 45 48.7–.80 34.60S 71.79W 14–4 3.9L ¶16442214
NEIC III 10 06 45 48.0 34.60S 71.79W 14 3.9L
IDC III 10 06 45 49.7–1.6 34.70S 72.52W 0 3.9L,3.8
ISCJB III 10 06 45 49.6–.77 34.61S–.03 71.82W–.05 8–6 3.4b,3.8
ISC Event type fe.
NEIC Event type fe. Felt [II] at Curico and Talca. After GUC.
ISCJB Event type fe.
IDC III 10 06 49 07.3–2.9 38.52S 73.87W 0 4.0,3.9 ¶17193608
IDC Error ellipse: s-maj=67.0km s-min=20.9km az=61.0.
ISC III 11 00 39 09.4–1.7 30.57S–.04 71.75W–.08 10–12 23 1-6
ISCJB III 11 00 39 10.3–1.6 30.47S–.03 71.80W–.09 7–9 ¶16603437
GUC III 11 00 39 12.1–.57 30.52S 71.54W 16–5 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=5.4km az=9.5.
GUC Error ellipse: s-maj=1.9km s-min=4.6km az=-1.0.
GUC III 12 05 15 02.0–.64 36.80S 73.39W 12–4 3.5L ¶601516838
GUC Error ellipse: s-maj=4.2km s-min=5.0km az=-1.0.
GUC III 13 15 23 39.2–.31 37.10S 73.69W 23–34 3.8L ¶601516849
GUC Error ellipse: s-maj=22.9km s-min=20.2km az=-1.0.
ISC III 13 17 51 10.7–.50 34.77S–.04 71.90W–.05 41–4 4.6b 70 0-153
ISCJB III 13 17 51 10.3–.44 34.75S–.03 71.90W–.06 54–4 4.5b,3.5s ¶16477565
NEIC III 13 17 51 10.0 34.66S 72.02W 51 4.6b,3.5s
GUC III 13 17 51 10.6–.55 34.66S 72.02W 51–10 4.9L,3.5s
IDC III 13 17 51 11.1–.62 34.69S 71.63W 41–4 4.5,4.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.1km az=23.0.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=9.0km s-min=16.0km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=14.7km az=71.0.
ISC III 15 00 56 08.5–2.7 32.61S–.05 71.8W–.10 23–16 25 1-7
SJA III 15 00 56 02.9–1.8 33.01S 72.09W 20–13 3.5L,2.8W ¶16630579
GUC III 15 00 56 09.2–.34 32.60S 71.61W 24–3 3.1L,2.8W
ISC Event type ke.
SJA Error ellipse: s-maj=23.9km s-min=11.5km az=-1.0.
GUC Error ellipse: s-maj=4.9km s-min=3.6km az=-1.0.
ISC III 15 10 21 40.8–1.8 29.50S–.05 71.54W–.07 2–13 36 1-6
SJA III 15 10 21 39.5–1.9 29.48S 71.55W 11–16 3.5L,2.8W ¶16630589
GUC III 15 10 21 44.2–.33 29.69S 70.92W 22–2 4.0L,2.8W
ISC Event type ke.
SJA Error ellipse: s-maj=10.8km s-min=14.1km az=-1.0.
GUC Error ellipse: s-maj=1.1km s-min=9.3km az=-1.0.
GUC III 15 22 15 21.0–.62 30.89S 71.57W 18–5 3.5L ¶601516875
GUC Error ellipse: s-maj=1.6km s-min=6.5km az=-1.0.
ISC III 15 22 46 41.1–2.1 30.69S–.03 71.50W–.07 17–14 24 1-3
ISCJB III 15 22 46 40.7–1.7 30.61S–.03 71.69W–.09 8–13 ¶16630595
GUC III 15 22 46 41.5–.36 30.70S 71.30W 49–2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=5.8km az=2.4.
GUC Error ellipse: s-maj=1.0km s-min=4.0km az=-1.0.
ISC III 16 22 36 17.4–.59 32.57S–.03 71.59W–.04 34–2 5.5b,5.3s 919 1-176
IDC III 16 22 36 12.0–.42 32.52S 71.58W 0 5.2,5.1L ¶16329748
SJA III 16 22 36 12.9–1.2 32.69S 71.89W 17–13 5.7L,5.3W
BJI III 16 22 36 14.8 32.10S 71.54W 25 5.8s,5.5
NEIC III 16 22 36 16.0 32.56S 71.73W 33 5.6L,5.5b
GCMT III 16 22 36 16.0–.10 32.57S 71.89W 37–0 5.5W,5.5b
GUC III 16 22 36 16.1–.71 32.56S 71.73W 33–6 5.6L,5.5b
MOS III 16 22 36 16.3–1.0 32.54S 71.53W 33 5.6b,5.5s
ISCJB III 16 22 36 17.5–.46 32.52S–.02 71.61W–.05 48–4 5.4b,5.3s
ISC Event type fe.
NEIC Event type fe. Felt [V] at Cabildo, Hijuelas, La Ligua, Papudo, Petorca, Puchuncavi and Zapallar; [IV] at Concon, Putaendo, Quillota, Quilpue, Quintero, Rancagua, San Felipe, Talagante, Tiltil, Valparaiso, Villa Alemana and Vina del Mar. Felt in much of central Chile as far as La Serena and Rengo. Felt [II] at Mendoza, Argentina. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c168; s104,c158;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.69±.03 $M_{\theta\theta}$0.13±.03; $M_{\phi\phi}$-1.82±.03; $M_{r\theta}$0.13±.03; $M_{\theta\phi}$-0.23±.02; $M_{\phi r}$-1.29±.04; Best double couple: NP1:ϕ_s179.00000°,δ63.00000°,λ83.00000°. NP2:ϕ_s15.00000°,δ28.00000°,λ105.00000°. Principal axes: T 2.1320,Plg71.0000°,Azm73.0000°; N 0.1280,Plg7.0000°,Azm182.0000°; P -2.2570,Plg18.0000°,Azm275.0000° M_o2.19500×10^{17}
ISCJB Event type fe.
ISC III 16 23 40 23.0–.53 32.52S–.04 71.61W–.06 25 4.9b 65 1-165
IDC III 16 23 40 19.1–.75 32.51S 71.65W 0 4.5,4.5b ¶16349061
SJA III 16 23 40 21.5–.69 32.82S 71.83W 28–6 4.6L,3.9W
ISCJB III 16 23 40 22.0–.43 32.60S–.03 71.92W–.05 33 4.6b,3.9W
GUC III 16 23 40 23.9–.53 32.56S 71.65W 33–7 4.4L,3.9W
NEIC III 16 23 40 23.0 32.56S 71.65W 33 5.0b,4.4L
ISC Event type fe.
IDC Error ellipse: s-maj=29.9km s-min=20.6km az=108.0.
SJA Error ellipse: s-maj=15.3km s-min=9.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=148.4.
GUC Error ellipse: s-maj=9.2km s-min=9.3km az=-1.0.
NEIC Event type fe. Felt [IV] at La Ligua and Zapallar; [III] at La Cruz, Nogales, Puchuncavi, Quillota and Quintero; [II] at Rancagua, Valparaiso and Vina del Mar. After GUC.
ISC III 17 00 55 04.5–.98 32.55S–.04 71.62W–.06 44–8 5.0b,4.4s 725 1-176
IDC III 17 00 54 58.2–.47 32.44S 71.60W 0 5.1,5.0b ¶16339099
MOS III 17 00 55 02.6–.95 32.39S 71.51W 33 5.2b,5.0b
NEIC III 17 00 55 02.0 32.50S 71.61W 31 5.1b,4.5L
BJI III 17 00 55 02.5 32.50S 71.50W 23 5.3s,5.2b
GUC III 17 00 55 02.7–.32 32.50S 71.61W 31–1 4.5L,5.2b
ISCJB III 17 00 55 03.8–.47 32.47S–.02 71.55W–.05 50–4 5.0b,4.3s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at La Ligua, Papudo and Zapallar; [III] at Coquimbo, La Cruz, La Serena, Navidad, Nogales, Puchuncavi, Quillota, Quintero and Salamanca; [II] at Combarbala, Los Vilos, Rancagua, San Bernardo, Santiago, Tiltil, Valparaiso and Vina del Mar. After GUC.
ISCJB Event type fe.
SJA III 17 01 20 54.7–.70 32.84S 71.50W 59–14 3.8W,2.6L ¶16630671
SJA Error ellipse: s-maj=17.4km s-min=10.7km az=-1.0.
ISC III 17 03 16 42.5–1.5 32.71S–.04 71.79W–.06 32–10 4.2b 52 1-156
IDC III 17 03 16 38.2–1.0 32.53S 71.60W 0 5.0s,4.9 ¶16427642
ISCJB III 17 03 16 39.8–1.3 32.69S–.03 71.97W–.06 24–9 4.9s,4.0b
NEIC III 17 03 16 42.0 32.54S 71.56W 15 3.9b,3.8L
GUC III 17 03 16 42.9–.41 32.52S 71.52W 14–1 3.8L,3.8L
ISC Event type fe.
IDC Error ellipse: s-maj=29.8km s-min=29.5km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.0km az=159.8.
NEIC Event type fe. Felt [III] at Quilpue, Quintero, Valparaiso, Villa Alemana and Vina del Mar; [II] at Quillota, San Bernardo, San Felipe and Tiltil. After GUC.
GUC Error ellipse: s-maj=0.9km s-min=2.7km az=-1.0.
ISC III 17 03 23 50.9–1.8 32.59S–.04 71.91W–.06 14–10 4.3b 48 1-156
IDC III 17 03 23 48.6–.84 32.64S 71.72W 0 5.0,5.0s ¶16427644
SJA III 17 03 23 49.1–1.7 33.02S 72.01W 28–13 4.3L,3.6W
NEIC III 17 03 23 53.0 32.58S 71.63W 12 4.3b,4.0L
GUC III 17 03 23 53.9–.37 32.58S 71.63W 12–2 4.0L,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=28.9km s-min=22.3km az=123.0.
SJA Error ellipse: s-maj=34.1km s-min=14.6km az=-1.0.
NEIC Event type fe. Felt [III] at Quillota and Quintero; [II] at Concon, La Ligua, Puchuncavi, Quilpue, Valparaiso, Villa Alemana and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=6.7km s-min=5.1km az=-1.0.
ISC III 17 03 34 20.0–1.9 32.60S–.05 71.92W–.07 2–11 38 1-69
SJA III 17 03 34 17.9–1.6 32.62S 72.05W 8–58 3.9L,3.2W ¶16427645
IDC III 17 03 34 20.9–1.8 32.52S 71.89W 0 3.9,3.9L
NEIC III 17 03 34 24.0 32.64S 71.69W 12 3.7L,3.9L
GUC III 17 03 34 24.3–.27 32.64S 71.69W 12–1 3.7L,3.9L
ISC Event type fe.
SJA Error ellipse: s-maj=36.2km s-min=70.6km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=33.5km az=87.0.
NEIC Event type fe. Felt [III] at Quintero and [II] at La Ligua, Valparaiso and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=4.3km s-min=3.2km az=-1.0.
ISC III 17 04 04 40.6–2.5 32.56S–.04 71.7W–.10 5–13 23 1-7
SJA III 17 04 04 42.9–.90 32.56S 71.61W 10–39 3.6L,2.9W ¶16630678
GUC III 17 04 04 43.2–.23 32.51S 71.56W 16–3 3.5L,2.9W
ISC Event type ke.
SJA Error ellipse: s-maj=14.4km s-min=49.0km az=-1.0.
GUC Error ellipse: s-maj=1.5km s-min=4.6km az=-1.0.
ISC III 17 04 28 49.2–2.7 32.62S–.05 72.0W–.10 7–13 21 1-7
SJA III 17 04 28 52.7–.95 33.07S 71.81W 54–23 3.4L ¶16630682
GUC III 17 04 28 54.7–.35 32.54S 71.60W 34–5 3.1L
ISC Event type ke.
SJA Error ellipse: s-maj=27.9km s-min=17.4km az=-1.0.
GUC Error ellipse: s-maj=2.4km s-min=3.5km az=-1.0.
ISC III 17 04 45 53.9–2.3 32.65S–.06 71.8W–.10 15–11 25 1-5
SJA III 17 04 45 53.4–.77 33.10S 71.70W 72–6 3.7L,3.2W ¶16630683
GUC III 17 04 45 55.4–.41 32.55S 71.66W 40–2 3.5L,3.2W
ISC Event type ke.
SJA Error ellipse: s-maj=16.3km s-min=11.3km az=-1.0.
GUC Error ellipse: s-maj=1.6km s-min=4.4km az=-1.0.
ISC III 17 08 18 54.9–2.7 32.69S–.07 71.7W–.10 1–14 25 1-4
GUC III 17 08 18 54.6–.34 32.58S 71.68W 11–2 3.4L ¶16630688
SJA III 17 08 18 55.5–.65 32.88S 71.65W 54–11 3.6L,3.3W
ISC Event type ke.
GUC Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
SJA Error ellipse: s-maj=11.4km s-min=8.6km az=-1.0.
ISC III 17 11 14 24.0–1.4 32.62S–.03 71.80W–.05 23–9 5.1b,4.7s 599 1-176
ISCJB III 17 11 14 20.8–.15 32.58S–.03 71.91W–.03 10 4.9b,4.6s ¶16331280
IDC III 17 11 14 20.6–.45 32.50S 71.59W 0 4.8,4.8L
BJI III 17 11 14 23.2 31.85S 70.85W 19 5.5s,5.3
GUC III 17 11 14 24.1–.33 32.59S 71.69W 13–1 5.0L,5.3
NEIC III 17 11 14 24.0 32.66S 71.76W 13 5.1b,5.0L
MOS III 17 11 14 24.6–1.1 32.55S 71.55W 33 5.1b,5.0L
GCMT III 17 11 14 26.7–.20 32.67S 72.00W 35–0 5.2W,5.0L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.3km az=42.6.
IDC Error ellipse: s-maj=20.3km s-min=14.4km az=76.0.
GUC Error ellipse: s-maj=0.7km s-min=1.7km az=-1.0.

NEIC Event type fe. Felt [IV] at La Ligua, Quilpue, San Bernardo, Tiltil, Valparaiso, Vina del Mar and Zapallar; [III] at Coquimbo, Hijuelas, La Serena, Quillota, San Antonio, Santiago and Talagante; [II] at Rancagua. Also felt at Limache and San Vicente. Felt at Mendoza, Argentina. After GUC.
MOS Error ellipse: s-maj=16.4km s-min=8.2km az=101.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c82; s74,c101; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.62±.02 $M_{\theta\theta}$0.07±.02; $M_{\phi\phi}$-0.69±.02; $M_{r\theta}$0.08±.02; $M_{\theta\phi}$0.01±.01; $M_{\phi r}$-0.45±.03; Best double couple: NP1:ϕ_s174.00000°,δ62.00000°,λ84.00000°. NP2:ϕ_s6.00000°,δ28.00000°,λ101.00000°. Principal axes: T 0.7700,Plg72.0000°,Azm70.0000°; N 0.0650,Plg5.0000°,Azm176.0000°; P -0.8350,Plg17.0000°,Azm268.0000° $M_0$0.80200×10^{17}

ISC III 17 15 25 23.2–1.7 32.48S–.03 71.82W–.06 6–10 4.7b,4.2s 57 1-153
IDC III 17 15 25 21.9–.90 32.35S 71.86W 0 4.5,4.5L ¶16478936
ISCJB III 17 15 25 23.3–.55 32.64S–.04 72.00W–.05 10 4.5b,4.2s
NEIC III 17 15 25 27.9–1.3 32.53S 71.88W 39–10 4.9b,4.2s
GUC III 17 15 25 27.3–.73 32.51S 71.60W 33–5 4.3L,4.2s
SJA III 17 15 25 28.7–.44 32.70S 71.66W 28–7 4.3L,4.0W
ISC Event type se.
IDC Error ellipse: s-maj=33.0km s-min=23.5km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=142.7.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=8.8km az=88.0.
GUC Error ellipse: s-maj=3.9km s-min=7.2km az=-1.0.
SJA Error ellipse: s-maj=9.0km s-min=5.2km az=-1.0.

ISC III 17 18 28 06.3–2.9 32.48S–.04 71.6W–.10 14–16 27 1-5
GUC III 17 18 28 07.8–.60 32.42S 71.50W 40–3 3.6L ¶16630703
SJA III 17 18 28 08.9–.90 32.68S 71.40W 74–7 3.9L,3.7W
ISC Event type ke.
GUC Error ellipse: s-maj=2.5km s-min=9.2km az=-1.0.
SJA Error ellipse: s-maj=10.8km s-min=10.0km az=-1.0.

ISC III 18 00 28 29.1–1.5 34.36S–.05 71.9W–.10 26–11 12 0-5
GUC III 18 00 28 28.7–.44 34.34S 72.06W 32–2 3.7L ¶16630721
ISCJB III 18 00 28 29.4–1.5 34.40S–.04 72.1W–.10 24–5 3.7L
ISC Event type ke.
ISCJB Event type ke.

ISC III 18 11 32 34.2–.66 32.57S–.04 71.77W–.06 25 4.4b,3.5s 36 1-156
ISCJB III 18 11 32 33.1–.56 32.61S–.04 71.88W–.06 25 4.3b,3.7s ¶16479171
SJA III 18 11 32 36.9–.48 32.92S 71.56W 56–5 3.1L,3.0W
IDC III 18 11 32 37.4–3.1 32.57S 71.55W 44–27 4.5L,4.3
NEIC III 18 11 32 37.4–1.0 32.51S 71.60W 44–8 4.4b,4.3
GUC III 18 11 32 37.8–.69 32.90S 71.68W 32–20 4.0L,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=164.7.
SJA Error ellipse: s-maj=6.5km s-min=11.7km az=-1.0.
IDC Error ellipse: s-maj=28.3km s-min=23.7km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=14.2km s-min=7.2km az=91.0. Felt [IV] at Cabildo, La Ligua, Papudo, Petorca and Zapallar; [III] at Puchuncavi and Valparaiso; [II] at Algarrobo, Mostazal, Navidad and Rancagua.
GUC Error ellipse: s-maj=5.5km s-min=5.1km az=-1.0.

ISC III 18 18 38 07.1–.93 32.12S–.04 71.23W–.09 83–8 4.0b 41 1-152
IDC III 18 18 38 07.0–3.5 32.10S 70.85W 72–33 4.0L,3.8 ¶16479248
ISCJB III 18 18 38 06.7–.57 32.15S–.03 71.20W–.08 94–5 4.4b,3.8
NEIC III 18 18 38 07.3–.64 32.12S 70.83W 76–7 4.9b,3.8
GUC III 18 18 38 08.2–.46 32.20S 71.21W 66–6 4.0L,3.8
SJA III 18 18 38 11.6–.63 32.03S 70.72W 87–14 3.6L,3.2W
ISC Event type fe.
IDC Error ellipse: s-maj=35.6km s-min=30.5km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.4km az=7.1.
NEIC Event type fe. Error ellipse: s-maj=12.7km s-min=7.3km az=92.0. Felt [IV] at La Ligua and Zapallar; [II] at Calera, Hijuela, La Cruz, Nogales, Papudo, Quillota, San Felipe and Villa Alemana.
GUC Error ellipse: s-maj=4.8km s-min=11.0km az=-1.0.
SJA Error ellipse: s-maj=4.5km s-min=19.2km az=-1.0.

GUC III 19 17 04 41.6–.66 35.27S 72.08W 46–4 3.8L ¶601516904
GUC Error ellipse: s-maj=1.8km s-min=3.3km az=-1.0.

ISC III 19 18 17 45.9–2.2 31.24S–.03 71.67W–.09 3–13 28 1-4
GUC III 19 18 17 47.4–.74 31.29S 71.73W 17–5 3.8L ¶16630834
ISC Event type ke.
GUC Error ellipse: s-maj=2.0km s-min=11.2km az=-1.0.

GUC III 21 11 58 27.2–.49 34.57S 72.20W 26–4 3.9L ¶601516915
GUC Error ellipse: s-maj=1.6km s-min=3.1km az=-1.0.

ISC III 22 01 07 48.1–2.6 32.69S–.05 71.7W–.10 28–15 26 1-5
SJA III 22 01 07 47.8–.96 32.60S 71.67W 10 3.9L ¶16630895
GUC III 22 01 07 48.4–.63 32.69S 71.63W 29–8 3.3L
ISC Event type ke.
SJA Error ellipse: s-maj=4.8km s-min=7.8km az=-1.0.
GUC Error ellipse: s-maj=6.8km s-min=6.4km az=-1.0.

ISC III 22 07 32 47.2–1.3 33.69S–.03 71.75W–.05 13–8 4.7b 89 1-154
IDC III 22 07 32 45.6–.85 33.56S 71.62W 0 4.2,4.1 ¶16449008
ISCJB III 22 07 32 47.9–.75 33.69S–.03 71.81W–.04 27–5 4.8b,4.1
NEIC III 22 07 32 48.0 33.75S 71.75W 18 4.8b,4.3L
GUC III 22 07 32 48.9–.80 33.75S 71.76W 18–13 4.3L,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=31.5km s-min=18.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=25.9.
NEIC Event type fe. Felt [IV] at Litueche, Navidad and San Antonio; [III] at El Quisco, El Tabo and La Estrella; [II] at Curico, Paredones, Rancagua and Talca. After GUC.
GUC Error ellipse: s-maj=2.8km s-min=4.0km az=-1.0.

GUC III 23 19 21 36.8–.34 33.95S 71.41W 24–3 2.6L ¶601516934
GUC Error ellipse: s-maj=3.9km s-min=3.9km az=-1.0.

GUC III 24 05 04 41.2–.53 37.69S 73.86W 7–13 3.9L ¶601516937
GUC Error ellipse: s-maj=4.3km s-min=26.5km az=-1.0.

GUC III 24 20 42 39.3–.45 34.75S 71.83W 43–2 3.6L ¶601516943
GUC Error ellipse: s-maj=1.3km s-min=2.9km az=-1.0.

GUC III 25 04 43 06.6–.65 36.28S 73.19W 27–10 3.9L ¶601516953
GUC Error ellipse: s-maj=5.1km s-min=10.4km az=-1.0.

ISC III 25 14 48 43.8–1.2 34.51S–.03 71.83W–.04 3–8 4.4b 56 0-155
GUC III 25 14 48 42.7–1.1 34.49S 71.84W 14–7 4.4L ¶16480848
NEIC III 25 14 48 42.0 34.49S 71.84W 14 4.6b,4.4L
IDC III 25 14 48 44.0–.99 34.48S 71.64W 0 4.4,4.3L
ISC Event type fe.
GUC Error ellipse: s-maj=2.5km s-min=5.6km az=-1.0.
NEIC Event type fe. Felt [III] at Constitucion, Curico, Hualane, Linares, Maule, Paredones, Pichilemu and San Clemente; [II] at Chanco, Rancagua, Rio Claro, San Fernando and Talca. After GUC.
IDC Error ellipse: s-maj=32.3km s-min=27.5km az=72.0.

ISC III 26 00 36 52.0–1.8 35.26S–.04 72.09W–.09 18–10 22 0-7
GUC III 26 00 36 51.8–.85 35.26S 72.02W 51–7 3.5L ¶16630992
ISC Event type ke.
GUC Error ellipse: s-maj=2.2km s-min=6.7km az=-1.0.

ISC III 27 08 50 01.8–1.3 35.0S–.10 72.3W–.20 18 3.6b 9 2-85
IDC III 27 08 49 58.9–1.6 35.03S 72.33W 0 3.7,3.7L ¶17198761
ISC Event type ke.
IDC Error ellipse: s-maj=49.4km s-min=29.7km az=83.0.

ISC III 28 06 10 42.0–.38 34.94S–.03 71.75W–.04 49–3 5.2b,4.5s 1010 0-179
MOS III 28 06 10 39.8–1.0 34.74S 71.55W 33 5.5b,4.5s ¶16364045
GUC III 28 06 10 40.7–.64 34.89S 71.84W 45–2 5.7L,4.5s
BJI III 28 06 10 41.0 35.71S 71.16W 47 5.5s,5.4b
SJA III 28 06 10 42.3–1.7 34.70S 71.94W 155–24 4.9L,4.5W
ISCJB III 28 06 10 42.1–.33 34.90S–.02 71.75W–.04 61–3 5.2b,4.5W
GCMT III 28 06 10 42.4–.20 34.91S 72.08W 51–1 5.2W,4.5W
NEIC III 28 06 10 42.4–.11 34.83S 71.54W 46 5.2b,4.5W
IDC III 28 06 10 42.1–.57 34.89S 71.62W 47–4 5.2,5.0
ISC Event type fe.
MOS Error ellipse: s-maj=16.3km s-min=7.0km az=100.0.
GUC Error ellipse: s-maj=1.2km s-min=2.7km az=-1.0.
SJA Error ellipse: s-maj=7.2km s-min=32.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.8km az=4.7.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c83; s75,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.66±.24 $M_{\theta\theta}$-0.21±.18; $M_{\phi\phi}$-5.45±.17; $M_{r\theta}$1.42±.14; $M_{\theta\phi}$-1.29±.12; $M_{\phi r}$-3.62±.18; Best double couple: NP1:ϕ_s176.00000°,δ62.00000°,λ73.00000°. NP2:ϕ_s29.00000°,δ32.00000°,λ119.00000°. Principal axes: T 7.1440,Plg68.0000°,Azm52.0000°; N -0.5080,Plg15.0000°,Azm184.0000°; P -6.6370,Plg15.0000°,Azm278.0000° $M_0$6.89100×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=72.0. Felt [V] at Iloca, Linares, Molina, Rio Claro, Romeral, Sagrada Familia and Talca; [IV] at Constitucion, Curico, Pichilemu and Rancagua. Felt widely in central Chile from Santiago and Vina del Mar to Cauquenes. Also felt at San Rafael, Argentina.
IDC Error ellipse: s-maj=18.0km s-min=10.9km az=90.0.

ISC III 29 05 08 48.9–.52 34.77S–.03 71.73W–.05 52–4 4.7b,3.8s 424 0-176
GUC III 29 05 08 47.6–.57 34.78S 71.72W 48–3 5.2L,3.8s ¶16392134
SJA III 29 05 08 48.7–.63 34.68S 71.87W 89–40 4.9W,4.9L
IDC III 29 05 08 48.8–.66 34.81S 71.51W 49–5 4.7,4.5
ISCJB III 29 05 08 48.5–.36 34.83S–.03 71.68W–.05 62–3 4.8b,4.5
NEIC III 29 05 08 50.9–.73 34.75S 71.43W 65–6 4.7b,4.5
ISC Event type fe.
GUC Error ellipse: s-maj=1.6km s-min=2.8km az=-1.0.
SJA Error ellipse: s-maj=5.4km s-min=17.1km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=13.8km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=6.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=74.0. Felt [III] at Rancagua and [II] at Santiago. Also felt at Curico, Paine, Penaflor, San Bernardo, San Vicente, Talca and Vina del Mar.

ISC III 29 09 39 53.1–3.0 32.15S–.08 71.3W–.10 92–33 13 1-5
SJA III 29 09 39 53.3–1.5 32.01S 71.28W 60–22 3.3L,2.7W ¶16631076
ISCJB III 29 09 39 53.8–1.1 32.16S–.05 71.29W–.07 93–14 3.3L,2.7W
GUC III 29 09 39 55.7–.52 32.13S 71.00W 63–12 3.6L,2.7W
ISC Event type ke.
SJA Error ellipse: s-maj=10.0km s-min=8.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.4km az=15.8.
GUC Error ellipse: s-maj=1.8km s-min=13.1km az=-1.0.

GUC III 31 08 04 15.9–.33 36.89S 73.23W 41–2 3.5L ¶601516991
GUC Error ellipse: s-maj=1.2km s-min=3.3km az=-1.0.

ISC III 31 12 05 02.8–.92 35.50S–.04 72.53W–.07 40–7 4.6b,4.0s 125 1-174
IDC III 31 12 04 56.9–.56 35.42S 72.44W 0 4.5,4.4 ¶16403109
GUC III 31 12 04 58.7–.48 35.48S 72.63W 21–3 5.1L,4.4
BJI III 31 12 05 02.0 35.40S 72.40W 36 5.3,5.3s
ISCJB III 31 12 05 02.2–.75 35.48S–.03 72.48W–.08 45–7 4.7b,3.9s
NEIC III 31 12 05 04.0–.88 35.42S 72.32W 46–7 4.7b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=16.4km az=68.0.
GUC Error ellipse: s-maj=1.4km s-min=3.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.3km az=0.4.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.5km az=73.0.

ISC III 31 23 39 21.3–1.9 34.10S–.05 72.1W–.10 15–9 26 0-6
GUC III 31 23 39 18.9–.70 34.29S 72.20W 48–6 3.8L ¶16631122
ISC Event type ke.
GUC Error ellipse: s-maj=7.7km s-min=7.8km az=-1.0.

ISC IV 01 15 58 37.7–2.1 35.12S–.05 72.12W–.09 24–15 4.1b 36 0-85
IDC IV 01 15 58 34.5–1.6 34.88S 71.61W 0 4.3L,4.0 ¶16525076
SJA IV 01 15 58 37.0–.65 35.22S 71.93W 205–22 4.0L,3.7W
NEIC IV 01 15 58 40.0 35.13S 71.89W 42 4.3b,3.7W
GUC IV 01 15 58 40.0–.66 35.13S 71.89W 42–2 4.4L,3.7W
ISC Event type fe.
IDC Error ellipse: s-maj=63.7km s-min=32.8km az=77.0.
SJA Error ellipse: s-maj=17.0km s-min=19.8km az=-1.0.
NEIC Event type fe. Felt [IV] at Iloca, Linares, Longavi and Talca; [III] at Chepica, Chimbarongo, Hualane, Lolol, Pencahue, San Fernando and Santa Cruz; [II] at Cauquenes, Chanco, Constitucion, Curico, Molina, Paredones, Pelluhue, Rancagua, Rio Claro and San Clemente. After GUC.
GUC Error ellipse: s-maj=2.5km s-min=4.1km az=-1.0.

ISC IV 02 00 03 45.5–.35 34.06S–.03 72.04W–.05 21–2 4.7b,4.3s 130 0-176
IDC IV 02 00 03 42.5–.57 34.03S 71.90W 0 4.4,4.3 ¶16403918
ISCJB IV 02 00 03 43.5–.81 34.11S–.02 72.31W–.04 17–5 4.7b,4.3s
NEIC IV 02 00 03 44.0 34.08S 72.21W 15 4.8b,4.4L
GUC IV 02 00 03 44.3–.37 34.09S 72.21W 15–2 4.4L,4.4L
BJI IV 02 00 03 49.7 34.10S 71.80W 44 5.3b,4.8s
ISC Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=13.0km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=9.2.
NEIC Event type fe. Felt [III] at Litueche, Longavi, Navidad, Pichilemu, Santo Domingo and Talca; [II] at Parral, Rancagua, Rio Claro, San Antonio and Tiltil. After GUC.
GUC Error ellipse: s-maj=1.0km s-min=3.4km az=-1.0.

ISC IV 02 00 28 53.7–1.0 34.07S–.03 72.23W–.05 20–4 4.7b,4.3s 212 0-176
ISCJB IV 02 00 28 52.7–.82 34.09S–.03 72.30W–.04 21–6 4.7b,4.2s ¶16403919
NEIC IV 02 00 28 52.0 34.08S 72.25W 17 4.9L,4.8b
GUC IV 02 00 28 52.9–.28 34.08S 72.25W 17–1 4.9L,4.8b
BJI IV 02 00 28 53.6 34.81S 71.29W 27 5.6s,5.4
IDC IV 02 00 28 55.7–4.5 34.06S 72.10W 30–32 4.4,4.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=11.0.
NEIC Event type fe. Felt [III] at Navidad and San Antonio; [II] at Rancagua, Santiago and Talca. Also felt at Quilpue. After GUC.
GUC Error ellipse: s-maj=0.8km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=13.6km az=82.0.

ISC IV 02 01 54 33.6–1.6 34.06S–.03 72.20W–.06 7–9 4.5b,3.9s 97 1-175
ISCJB IV 02 01 54 32.7–.36 34.13S–.03 72.39W–.04 10 4.4b,3.8s ¶16403920
IDC IV 02 01 54 32.9–.61 34.13S 72.01W 0 4.4,4.2
NEIC IV 02 01 54 35.0 34.11S 72.20W 14 4.6b,4.4L
GUC IV 02 01 54 35.2–.35 34.11S 72.20W 14–4 4.4L,4.4L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.6km az=25.4.
IDC Error ellipse: s-maj=26.5km s-min=14.6km az=86.0.
NEIC Event type fe. Felt [IV] at Pichilemu; [III] at Paredones, San Antonio and Santo Domingo; [II] at Chepica, Lolol, Rancagua, Santa Cruz and Talca. After GUC.
GUC Error ellipse: s-maj=1.0km s-min=3.7km az=-1.0.

ISC IV 02 16 26 52.3–.91 34.74S–.04 71.91W–.06 42–7 4.6b,3.7s 95 0-175
GUC IV 02 16 26 51.9–.72 34.74S 71.82W 44–3 4.9L,3.7s ¶16404911
NEIC IV 02 16 26 51.0 34.74S 71.82W 44 4.7b,3.7s
ISCJB IV 02 16 26 52.4–.49 34.76S–.03 71.91W–.07 52–4 4.5b,3.6s
IDC IV 02 16 26 54.2–3.0 34.65S 71.66W 52–26 4.5,4.5L
ISC Event type fe.
GUC Error ellipse: s-maj=2.0km s-min=4.2km az=-1.0.
NEIC Event type fe. Felt [IV] at Chepica, Chimbarongo, Curico, Iloca, Lolol, Romeral, San Fernando, Santa Cruz and Talca; [III] at Graneros, Hualane, Paredones and Rancagua; [II] at Constitucion, Pencahue, San Javier and Santiago. Also felt at Machali, Rengo, San Antonio and San Vicente. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.9km az=3.8.
IDC Error ellipse: s-maj=21.8km s-min=14.1km az=76.0.

ISC IV 03 03 03 44.2–.62 34.03S–.03 72.22W–.07 17 4.1b 40 0-154
IDC IV 03 03 03 41.9–1.1 34.06S 72.02W 0 4.1,3.9 ¶16529561
NEIC IV 03 03 03 44.0 34.20S 72.44W 11 4.5L,4.1b
GUC IV 03 03 03 44.1–.37 34.20S 72.44W 11–3 4.5L,4.1b
ISC Event type fe.
IDC Error ellipse: s-maj=43.1km s-min=18.9km az=91.0.
NEIC Event type fe. Felt [II] at Talca. After GUC.
GUC Error ellipse: s-maj=4.3km s-min=2.6km az=-1.0.

ISC IV 03 19 11 39.8–1.6 33.67S–.07 71.98W–.09 26–14 31 1-84
IDC IV 03 19 11 37.1–1.6 33.50S 71.66W 0 3.7,3.6L ¶16648066
ISCJB IV 03 19 11 39.0–1.2 33.62S–.05 72.02W–.08 22–9 3.5b,3.6L
GUC IV 03 19 11 39.4–.59 33.62S 71.98W 25–709 3.7L,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=50.8km s-min=31.1km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=5.9km az=33.6.

GUC Error ellipse: s-maj=3.1km s-min=3.8km az=-1.0.
SJA IV 04 03 45 29.3–3.1 28.89S 71.41W 12–69 3.5L,3.3W ¶16648097
SJA Error ellipse: s-maj=32.1km s-min=30.6km az=-1.0.
ISC IV 04 04 45 49.4–1.5 34.74S–.04 71.71W–.07 18–6 25 0-7
ISCJB IV 04 04 45 49.8–.60 34.75S–.03 71.7W–.10 29–8 **¶16648098**
GUC IV 04 04 45 49.8–.48 34.73S 71.73W 38–2 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=4.9km az=4.8.
GUC Error ellipse: s-maj=0.9km s-min=3.2km az=-1.0.
GUC IV 04 15 24 23.1–.65 35.07S 72.38W 20–4 3.5L ¶601517027
GUC Error ellipse: s-maj=2.6km s-min=5.1km az=-1.0.
ISC IV 05 02 11 15.3–2.8 34.34S–.06 72.0W–.10 11–15 21 1-6
ISCJB IV 05 02 11 16.5–2.4 34.32S–.04 71.9W–.10 6–14 **¶16648144**
GUC IV 05 02 11 17.1–.55 34.32S 71.89W 22–6 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=4.7km az=13.8.
GUC Error ellipse: s-maj=1.5km s-min=4.1km az=-1.0.
GUC IV 05 12 24 12.7–.62 37.15S 73.96W 22–9 3.6L ¶601517034
GUC Error ellipse: s-maj=18.0km s-min=5.6km az=-1.0.
IDC IV 06 20 08 12.3–2.1 36.96S 73.75W 0 3.8,3.5 ¶17200046
IDC Error ellipse: s-maj=78.8km s-min=21.2km az=65.0.
ISC IV 07 23 22 17.8–1.3 34.77S–.06 71.80W–.09 29–12 18 0-5
GUC IV 07 23 22 16.9–.39 34.75S 71.76W 47–2 3.1L **¶601517053**
SJA IV 07 23 22 44.0–1.1 33.29S 70.02W 96–30 2.8W,2.0L
ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=2.3km az=-1.0.
SJA Error ellipse: s-maj=19.8km s-min=25.9km az=-1.0.
ISC IV 08 01 23 52.5–3.6 36.12S–.05 73.7W–.10 1–21 3.8b 28 1-86
NEIC IV 08 01 23 54.0 36.16S 73.58W 14 4.2L,3.9b **¶16529570**
GUC IV 08 01 23 54.1–.60 36.16S 73.58W 14–4 4.2L,3.9b
IDC IV 08 01 23 55.9–1.3 36.18S 73.47W 0 4.2L,4.0
ISC Event type fe.
NEIC Event type fe. Felt [III] at Concepcion, Coronel, Hualpen, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at Chiguayante and Curanilahue. After GUC.
GUC Error ellipse: s-maj=2.4km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=20.1km az=68.0.
GUC IV 08 04 03 44.4–.50 36.09S 73.12W 18–11 3.5L ¶601517056
GUC Error ellipse: s-maj=2.5km s-min=4.6km az=-1.0.
ISC IV 08 22 28 60.0–.74 34.49S–.03 71.75W–.04 15–5 4.1b 39 0-95
IDC IV 08 22 28 58.0–1.3 34.43S 71.70W 0 4.2,4.2L **¶16509626**
ISCJB IV 08 22 28 59.5–.57 34.56S–.03 71.95W–.06 24–4 4.0b,3.2s
NEIC IV 08 22 28 59.0 34.52S 71.89W 26 4.1L,4.0b
GUC IV 08 22 28 59.7–.34 34.52S 71.90W 26–3 4.1L,4.0b
ISC Event type fe.
IDC Error ellipse: s-maj=36.2km s-min=27.2km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.3km az=175.2.
NEIC Event type fe. Felt [IV] at Lolol and Talca; [III] at Curico, Duao, Iloca, Longavi, Molina, Paredones, Pencahue, Pichilemu and San Fernando; [II] at Constitucion, Linares and San Vicente de Taguatagua. After GUC.
GUC Error ellipse: s-maj=0.8km s-min=2.6km az=-1.0.
ISC IV 09 10 02 33.1–.68 34.71S–.03 71.78W–.05 28–4 4.3b 41 0-153
NEIC IV 09 10 02 34.0 34.75S 71.77W 45 4.3 **¶16532006**
IDC IV 09 10 02 34.7–.83 34.67S 71.60W 43–5 4.1L,3.9
GUC IV 09 10 02 34.3–.68 34.76S 71.78W 45–4 4.3L,3.9
ISC Event type fe.
NEIC Event type fe. Felt [III] at Constitucion, Curico, Iloca, Linares, Pencahue, Pichilemu and Talca and [II] at Rancagua. After GUC.
IDC Error ellipse: s-maj=29.2km s-min=15.2km az=82.0.
GUC Error ellipse: s-maj=2.6km s-min=4.4km az=-1.0.
ISC IV 09 13 32 41.2–1.0 36.45S–.03 73.18W–.07 31–6 4.6b 92 0-178
ISCJB IV 09 13 32 36.9–1.1 36.39S–.03 73.47W–.06 8–6 4.6b **¶16415852**
IDC IV 09 13 32 37.4–.63 36.36S 73.11W 0 4.4,4.3
BJI IV 09 13 32 39.2 36.08S 73.24W 29 5.0s,4.9b
NEIC IV 09 13 32 41.0 36.47S 73.19W 14 4.7b,4.3L
GUC IV 09 13 32 41.5–.46 36.47S 73.19W 14–7 4.3L,4.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.6km az=8.5.
IDC Error ellipse: s-maj=23.2km s-min=17.3km az=73.0.
NEIC Event type fe. Felt [V] at Concepcion and Penco; [IV] at Coelemu, Coronel, Hualpen and Tome; [III] at Arauco, Cabrero, Cauquenes, Cobquecura, Contulmo, La Laja, Lebu, Linares, Longavi, Los Alamos, Mulchen, Parral, Pelluhue, Quilaco, San Clemente, San Rosendo and Yumbel; [II] at Angol, Chanco, Constitucion and Talca. After GUC.
GUC Error ellipse: s-maj=1.4km s-min=4.2km az=-1.0.
ISC IV 09 19 15 56.2–2.8 32.76S–.05 71.3W–.10 13–11 24 0-5
SJA IV 09 19 15 55.6–.84 32.71S 71.29W 10 2.8W,2.8L **¶16648409**
GUC IV 09 19 15 56.5–.41 32.67S 71.08W 9–4 2.0L,2.8L
ISC Event type ke.
SJA Error ellipse: s-maj=3.1km s-min=11.1km az=-1.0.
GUC Error ellipse: s-maj=3.6km s-min=4.7km az=-1.0.
ISC IV 10 02 29 53.5–2.5 35.01S–.06 72.6W–.10 10 23 1-5
GUC IV 10 02 29 54.3–.53 34.93S 72.66W 25–5 3.7L **¶16648453**
ISC Event type ke.
GUC Error ellipse: s-maj=2.3km s-min=4.5km az=-1.0.
ISC IV 10 03 44 36.1–.50 34.76S–.03 71.97W–.05 41–4 4.1b 63 0-157
ISCJB IV 10 03 44 35.9–.44 34.77S–.03 71.94W–.06 50–4 4.1b,3.5s **¶16532009**
GUC IV 10 03 44 36.0–.64 34.75S 71.90W 40–2 4.5L,3.5s
NEIC IV 10 03 44 36.0 34.75S 71.90W 40 4.2b,3.5s
IDC IV 10 03 44 36.5–.56 34.74S 71.70W 40–3 4.3L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.7km az=19.5.
GUC Error ellipse: s-maj=1.5km s-min=2.8km az=-1.0.
NEIC Event type fe. Felt [III] at Chepica, Chimbarongo, Curico, Iloca, Lolol, Molina, Paredones, Pichilemu, Rancagua, Rio Claro, Romeral, San Fernando, Santa Cruz and Talca; [II] at Cauquenes, Navidad, Pelluhue, Santiago and Yerbas Buenas. After GUC.
IDC Error ellipse: s-maj=22.0km s-min=13.9km az=68.0.
ISC IV 10 04 14 17.2–3.0 32.38S–.05 71.8W–.10 9–16 29 1-8
SJA IV 10 04 14 13.5–1.7 32.51S 72.34W 33 4.0L,3.6W **¶16648457**
GUC IV 10 04 14 16.8–.53 32.39S 71.90W 20–38 3.6L,3.6W
ISC Event type ke.
SJA Error ellipse: s-maj=17.9km s-min=22.0km az=-1.0.
GUC Error ellipse: s-maj=14.6km s-min=12.1km az=-1.0.
ISC IV 10 05 45 46.2–1.1 34.38S–.03 71.92W–.04 2–9 3.9b 35 0-154
ISCJB IV 10 05 45 46.5–.66 34.42S–.03 71.93W–.08 6–6 3.7b **¶16532011**
GUC IV 10 05 45 46.0–.63 34.39S 71.96W 15–5 4.3L
NEIC IV 10 05 45 46.0 34.39S 71.96W 15 4.3L
IDC IV 10 05 45 46.9–1.3 34.39S 71.86W 0 4.0,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.6km az=178.9.
GUC Error ellipse: s-maj=3.0km s-min=8.4km az=-1.0.
NEIC Event type se. After GUC.
IDC Error ellipse: s-maj=38.3km s-min=29.8km az=95.0.
ISC IV 10 18 13 43.2–.80 36.23S–.05 73.54W–.09 35 4.1b 36 1-159
IDC IV 10 18 13 38.7–1.0 36.15S 73.35W 0 4.2,4.0 **¶16648473**
GUC IV 10 18 13 39.3–.44 36.22S 73.85W 15 4.1L,4.0
ISCJB IV 10 18 13 40.3–.74 36.17S–.04 73.66W–.08 33 4.0b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 10 20 24 24.8–1.2 36.12S–.04 73.49W–.06 25–8 5.2b,4.9s 538 1-178
IDC IV 10 20 24 21.1–.51 36.09S 73.43W 0 4.9,4.8 **¶16416189**
GUC IV 10 20 24 22.2–.41 36.20S 73.77W 24–5 5.0L,4.8
NEIC IV 10 20 24 22.0 36.19S 73.77W 24 5.2b,5.0L
GCMT IV 10 20 24 22.0–.20 36.17S 73.96W 18–1 5.2W,5.0L
ISCJB IV 10 20 24 23.1–1.1 36.09S–.03 73.44W–.06 19–8 5.1b,4.8s
BJI IV 10 20 24 24.2 35.77S 73.58W 27 5.3s,5.2b
MOS IV 10 20 24 25.6–1.2 36.05S 73.10W 33 5.4b,5.2b
ISC Event type fe.

IDC Error ellipse: s-maj=20.8km s-min=12.2km az=79.0.
GUC Error ellipse: s-maj=1.9km s-min=3.4km az=-1.0.
NEIC Event type fe. Felt [IV] at Cobquecura, Coronel, Penco and Quirihue; [III] at Cabrero, Cauquenes, Chiguayante, Concepcion, Hualpen, La Laja, Longavi, Pelluhue, San Pedro de la Paz, San Rosendo and Talcahuano; [II] at Angol, Arauco, Chanco, San Clemente and Talca. Also felt at Bulnes. After GUC.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c65; s68,c102; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.45±.02 $M_{\theta\theta}$0.01±.01; $M_{\phi\phi}$-0.45±.02; $M_{r\theta}$-0.06±.03; $M_{\theta\phi}$-0.01±.01; $M_{\phi r}$-0.77±.06; Best double couple: NP1:ϕ_s184.00000°,δ75.00000°,λ92.00000°. NP2:ϕ_s357.00000°,δ15.00000°,λ83.00000°. Principal axes: T 0.8930,Plg60.0000°,Azm97.0000°; N 0.0050,Plg2.0000°,Azm4.0000°; P -0.8970,Plg30.0000°,Azm273.0000° $M_0$0.89500×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=5.7.
MOS Error ellipse: s-maj=18.4km s-min=8.0km az=100.9.
ISC IV 11 20 52 09.0–1.1 36.27S–.07 73.7W–.10 35 4.1b,3.5s 15 1-94
IDC IV 11 20 52 05.2–1.8 36.14S 73.32W 0 4.1,4.0 **¶17200685**
ISCJB IV 11 20 52 06.6–.90 36.26S–.06 73.80W–.08 33 4.0b,3.6s
GUC IV 11 20 52 06.0–.35 36.24S 73.71W 22–3 4.0L,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=20.3km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=8.3km az=142.8.
GUC Error ellipse: s-maj=1.5km s-min=2.8km az=-1.0.
ISC IV 11 21 03 06.6–.89 36.26S–.05 73.83W–.10 35 4.1b 30 1-91
ISCJB IV 11 21 03 04.4–.71 36.21S–.05 73.90W–.07 33 4.3b,3.3s **¶16427672**
NEIC IV 11 21 03 05.0 36.22S 73.79W 20 4.2b,4.0L
GUC IV 11 21 03 05.2–.54 36.22S 73.79W 20–16 4.0L,4.0L
IDC IV 11 21 03 09.1–1.6 36.01S 72.29W 0 4.0,3.9b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=163.1.
NEIC Event type fe. Felt [III] at San Pedro de la Paz and [II] at Concepcion. After GUC.
GUC Error ellipse: s-maj=2.8km s-min=12.2km az=-1.0.
IDC Error ellipse: s-maj=50.1km s-min=20.0km az=81.0.
GUC IV 12 01 43 46.5–.50 35.53S 72.54W 40–3 3.9L ¶601517096
GUC Error ellipse: s-maj=2.0km s-min=2.8km az=-1.0.
ISC IV 13 07 02 08.6–1.3 34.53S–.04 71.73W–.04 1–10 3.9b 28 0-84
GUC IV 13 07 02 08.6–.68 34.53S 71.80W 20–7 3.9L **¶16648669**
ISCJB IV 13 07 02 09.4–.83 34.57S–.03 71.84W–.08 14–8 3.7b
IDC IV 13 07 02 09.2–1.3 34.57S 71.63W 0 3.9,3.8
ISC Event type ke.
GUC Error ellipse: s-maj=1.5km s-min=6.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=5.5km az=178.8.
IDC Error ellipse: s-maj=35.8km s-min=29.3km az=56.0.
ISC IV 13 15 19 23.7–.75 33.73S–.07 71.9W–.30 19 4.6b 26 5-166
IDC IV 13 15 19 20.4–.82 33.77S 71.92W 0 4.6,4.5 **¶16529590**
ISCJB IV 13 15 19 21.7–.88 33.74S–.05 72.0W–.30 19 4.7b,4.5
NEIC IV 13 15 19 24.8–2.8 33.77S 71.96W 30–18 4.4b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=42.7km s-min=24.9km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=37.6km s-min=7.4km az=3.4.
NEIC Event type se. Error ellipse: s-maj=28.2km s-min=8.5km az=92.0.
ISC IV 13 16 26 45.6–2.4 36.78S–.07 73.6W–.10 14 11 0-5
ISCJB IV 13 16 26 44.5–1.6 36.82S–.06 73.6W–.10 14 **¶16648677**
GUC IV 13 16 26 46.0–.51 36.85S 73.55W 8–4 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.2km az=174.0.
GUC Error ellipse: s-maj=5.2km s-min=4.5km az=-1.0.
ISC IV 14 10 45 22.7–2.2 33.76S–.05 71.9W–.10 8–11 21 1-4
GUC IV 14 10 45 23.9–.39 33.63S 72.01W 47–11 3.5L **¶16648730**
ISC Event type ke.
GUC Error ellipse: s-maj=3.7km s-min=3.1km az=-1.0.
ISC IV 14 17 14 09.0–.78 29.39S–.04 71.31W–.09 50 3.4b 25 1-150
IDC IV 14 17 13 59.9–.92 30.00S 71.41W 0 3.9,3.8 **¶16648733**
ISCJB IV 14 17 14 08.5–.67 29.36S–.03 71.43W–.09 50 3.4b,3.3s
GUC IV 14 17 14 09.5–.56 29.41S 71.12W 49–5 3.9L,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=29.4km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=4.5km az=6.9.
GUC Error ellipse: s-maj=2.4km s-min=7.1km az=-1.0.
ISC IV 14 22 14 36.2–.96 34.72S–.04 71.96W–.07 41–8 4.2b 57 0-157
ISCJB IV 14 22 14 36.1–.54 34.68S–.04 71.98W–.07 52–4 4.2b **¶16510403**
NEIC IV 14 22 14 36.0 34.68S 71.74W 39 4.2b
GUC IV 14 22 14 36.8–.46 34.68S 71.74W 39–3 4.5L
IDC IV 14 22 14 38.0–3.2 34.59S 71.66W 50–29 4.2,4.2L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.0km az=15.7.
NEIC Event type fe. Felt [IV] at Curico, Pencahue, San Fernando and Santa Cruz; [III] at Chepica, Constitucion, Iloca, Lolol, Paredones, Pichilemu, Rancagua, Rengo, Rio Claro and Talca. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=20.1km az=92.0.
ISC IV 15 00 53 33.4–.41 36.45S–.04 73.21W–.06 25 5.0b 78 0-174
IDC IV 15 00 53 29.3–1.2 36.50S 73.12W 0 4.3,4.3L **¶16577823**
ISCJB IV 15 00 53 31.6–.32 36.42S–.04 73.31W–.06 25 5.0b,3.5s
NEIC IV 15 00 53 32.0 36.48S 73.39W 14 4.8b,4.5L
GUC IV 15 00 53 32.6–.33 36.48S 73.39W 14–1 4.5L,4.5L
BJI IV 15 00 53 34.6 36.40S 73.20W 29 5.4s,5.2
ISC Event type fe.
IDC Error ellipse: s-maj=36.6km s-min=29.5km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=157.8.
NEIC Event type fe. Felt [IV] at Angol, Chiguayante, Coronel, Penco and San Pedro de la Paz; [III] at Cauquenes, Concepcion and Renaico; [II] at Los Angeles. After GUC.
GUC Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
ISC IV 15 00 59 46.6–.42 37.13S–.06 73.62W–.07 14 4.7b 66 0-175
GUC IV 15 00 59 37.1–.33 37.50S 73.26W 15–2 4.5L **¶16440441**
ISCJB IV 15 00 59 45.0–.37 37.13S–.05 73.55W–.06 14 4.8b,4.1s
IDC IV 15 00 59 44.4–1.2 37.06S 73.65W 0 4.3,4.1L
BJI IV 15 00 59 45.6 37.10S 73.60W 17 5.1b,4.1L
NEIC IV 15 00 59 46.1–.33 37.09S 73.59W 10 4.8b,4.5L
ISC Event type fe.
GUC Error ellipse: s-maj=1.8km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.4km az=44.8.
IDC Error ellipse: s-maj=37.2km s-min=28.6km az=49.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=6.7km az=79.0. Felt [III] at Penco, San Pedro de la Paz and Talcahuano and [II] at Concepcion. Also felt at Canete.
GUC IV 15 11 05 08.5–.41 34.54S 72.29W 21–2 3.6L ¶601517135
GUC Error ellipse: s-maj=1.2km s-min=3.1km az=-1.0.
ISC IV 15 21 22 12.7–3.1 32.51S–.09 71.8W–.20 60–27 22 1-4
SJA IV 15 21 22 13.6–.64 32.33S 71.44W 26–9 3.1W,2.9L **¶16648801**
GUC IV 15 21 22 14.1–.58 32.61S 71.55W 61–6 3.5L,2.9L
ISC Event type ke.
SJA Error ellipse: s-maj=6.1km s-min=12.5km az=-1.0.
GUC Error ellipse: s-maj=7.4km s-min=10.1km az=-1.0.
ISC IV 16 06 21 15.9–3.3 28.69S–.04 71.55W–.10 1–19 25 1-7
SJA IV 16 06 21 15.4–.37 28.41S 71.47W 252–64 4.1L,4.0W **¶16648845**
GUC IV 16 06 21 19.9–.31 28.73S 71.38W 42–1 4.2L,4.0W
ISC Event type ke.
SJA Error ellipse: s-maj=8.5km s-min=52.4km az=-1.0.
GUC Error ellipse: s-maj=0.9km s-min=3.6km az=-1.0.
ISC IV 16 09 31 24.1–3.0 34.80S–.05 72.1W–.20 42–29 21 0-7
ISCJB IV 16 09 31 23.9–1.6 34.80S–.04 72.0W–.20 48–13 **¶16648850**
GUC IV 16 09 31 24.4–.33 34.79S 71.95W 46–3 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=7.5km az=178.9.
GUC Error ellipse: s-maj=0.9km s-min=4.2km az=-1.0.
ISC IV 16 21 58 18.1–2.0 38.14S–.05 73.98W–.09 9–12 4.1s,3.7b 32 1-170
IDC IV 16 21 58 17.8–1.7 38.12S 73.59W 0 4.2,4.2s **¶16462837**
NEIC IV 16 21 58 18.0 38.19S 74.04W 41 4.2b,4.2s
GUC IV 16 21 58 18.3–.68 38.19S 74.04W 41–5 4.1L,4.2s

ISC Event type fe.
IDC Error ellipse: s-maj=50.3km s-min=19.0km az=56.0.
NEIC Event type fe. Felt [III] at Tirua and [II] at Puerto Saavedra. After GUC.
GUC Error ellipse: s-maj=2.2km s-min=12.4km az=-1.0.
GUC IV 17 18 42 21.9–.41 34.92S 71.22W 110–6 3.8L ¶601517168
GUC Error ellipse: s-maj=4.1km s-min=5.4km az=-1.0.
ISC IV 19 15 24 51.6–3.0 32.49S–.06 71.2W–.10 1–14 18 1-5
SJA IV 19 15 24 51.7–.55 32.32S 71.31W 20–26 3.1L,3.0W **¶16649008**
GUC IV 19 15 24 53.5–.54 32.72S 71.51W 55–7 2.4L,3.0W
ISC Event type ke.
SJA Error ellipse: s-maj=11.1km s-min=22.5km az=-1.0.
GUC Error ellipse: s-maj=6.9km s-min=11.0km az=-1.0.
ISC IV 20 03 24 18.2–1.3 38.18S–.04 73.4W–.10 19–4 3.5b 17 1-87
IDC IV 20 03 24 15.3–2.3 38.49S 73.62W 0 3.8,3.6L **¶16530694**
ISCJB IV 20 03 24 16.7–1.1 38.17S–.03 73.4W–.20 16–10 3.7s,3.5b
NEIC IV 20 03 24 17.0 38.17S 73.40W 29 4.2b,4.0L
GUC IV 20 03 24 17.7–.56 38.17S 73.40W 29–5 4.0L,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=69.6km s-min=18.9km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=23.5km s-min=5.0km az=5.7.
NEIC Event type fe. Felt [IV] at Angol, [III] at Lumaco and [II] at Curacautin, Puren, Puerto Saavedra, Tirua and Traiguen. After GUC.
GUC Error ellipse: s-maj=1.4km s-min=10.3km az=-1.0.
ISC IV 20 03 40 39.9–.44 38.20S–.04 73.85W–.07 18 4.5b,3.9s 82 1-175
GUC IV 20 03 40 32.2–.72 38.47S 74.49W 14–12 4.9L,3.9s **¶16450782**
IDC IV 20 03 40 37.4–.79 38.19S 73.87W 0 4.5,4.5L
ISCJB IV 20 03 40 38.7–.33 38.20S–.03 73.77W–.08 18 4.4b,3.8s
NEIC IV 20 03 40 42.5–2.3 38.17S 73.72W 34–15 4.9L,4.6b
BJI IV 20 03 40 42.8 38.20S 73.70W 34 4.9L,4.6b
ISC Event type fe.
GUC Error ellipse: s-maj=4.7km s-min=13.2km az=-1.0.
IDC Error ellipse: s-maj=27.5km s-min=15.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.5km az=178.1.
NEIC Event type fe. Error ellipse: s-maj=13.0km s-min=6.5km az=83.0. Felt [IV] at Carahue and Puerto Saavedra, [III] at Angol and Tirua and [II] at Padre Las Casas. Also felt at Temuco.
ISC IV 20 11 59 54.0–3.8 33.4S–.10 71.2W–.20 53–15 18 0-5
SJA IV 20 11 59 52.4–.41 33.28S 71.28W 70–2 3.7W,2.3L **¶16649053**
GUC IV 20 11 59 53.7–.40 33.34S 71.10W 62–5 2.7L,2.3L
ISC Event type ke.
SJA Error ellipse: s-maj=6.9km s-min=8.8km az=-1.0.
GUC Error ellipse: s-maj=3.7km s-min=6.2km az=-1.0.
SJA IV 20 15 35 52.3–.67 32.82S 71.59W 22–4 3.5W,2.8L ¶16649056
SJA Error ellipse: s-maj=6.4km s-min=4.8km az=-1.0.
ISC IV 21 01 35 15.8–1.3 33.84S–.06 71.58W–.08 6–15 21 1-6
GUC IV 21 01 35 16.2–.40 33.85S 71.60W 20–7 3.4L **¶16649095**
SJA IV 21 01 35 18.0–.40 33.72S 71.55W 61–5 4.1W,3.7L
ISC Event type ke.
GUC Error ellipse: s-maj=1.9km s-min=2.7km az=-1.0.
SJA Error ellipse: s-maj=4.9km s-min=9.2km az=-1.0.
ISC IV 21 20 04 46.6–1.4 32.70S–.04 71.10W–.06 17–9 19 0-4
GUC IV 21 20 04 45.3–.36 32.67S 71.10W 6–1 2.0L **¶16649113**
ISCJB IV 21 20 04 47.5–.98 32.74S–.04 71.17W–.07 4–7 2.0L
SJA IV 21 20 04 48.4–1.1 32.82S 70.96W 11 3.5W,2.3L
ISC Event type ke.
GUC Error ellipse: s-maj=2.1km s-min=2.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.8km az=171.8.
SJA Error ellipse: s-maj=6.6km s-min=8.4km az=-1.0.
ISC IV 21 23 15 53.5–1.2 32.25S–.05 71.1W–.10 57–11 21 1-155
IDC IV 21 23 15 43.8–1.5 32.60S 71.54W 0 3.8,3.6 **¶16649118**
SJA IV 21 23 15 46.7–.42 32.29S 71.85W 13–6 4.5W,3.7L
GUC IV 21 23 15 47.9–.44 32.27S 71.79W 27–20 3.8L,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=73.9km s-min=31.2km az=104.0.
SJA Error ellipse: s-maj=4.6km s-min=9.9km az=-1.0.
GUC Error ellipse: s-maj=8.0km s-min=9.8km az=-1.0.
ISC IV 22 00 08 21.3–.73 30.89S–.04 71.68W–.06 29–5 4.3b,3.8s 59 1-165
NEIC IV 22 00 08 20.0 30.82S 71.62W 42 4.4b,3.8s **¶16531759**
GUC IV 22 00 08 20.9–.58 30.82S 71.62W 42–4 4.4L,3.8s
IDC IV 22 00 08 22.5–.71 30.85S 71.52W 37–5 4.1,4.1
ISC Event type fe.
NEIC Event type fe. Felt [III] at Ovalle and Punitaqui and [II] at Vicuna. After GUC.
GUC Error ellipse: s-maj=1.3km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=27.2km s-min=18.2km az=82.0.
ISC IV 22 02 57 38.3–.49 34.77S–.03 71.81W–.05 48–4 4.6b,3.4s 130 0-176
SJA IV 22 02 57 35.9–.62 34.92S 71.75W 72–11 4.3L,4.1W **¶16553309**
ISCJB IV 22 02 57 37.9–.38 34.80S–.03 71.71W–.05 58–3 4.6b,3.4s
IDC IV 22 02 57 38.5–.61 34.73S 71.65W 50–5 4.5,4.4
BJI IV 22 02 57 39.7 34.70S 71.50W 55 5.0b,4.8s
GUC IV 22 02 57 39.0–.73 34.71S 71.54W 15–7 4.7L,4.8s
NEIC IV 22 02 57 39.6–.62 34.70S 71.54W 56–5 4.5b,4.8s
ISC Event type fe.
SJA Error ellipse: s-maj=4.6km s-min=13.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=21.4.
IDC Error ellipse: s-maj=20.9km s-min=14.8km az=81.0.
GUC Error ellipse: s-maj=1.6km s-min=3.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=4.7km az=80.0. Felt [IV] at Chepica, Chimbarongo, Constitucion, Hualane, Molina, Paredones, Pencahue, Pichilemu, Romeral and Santa Cruz; [III] at Cauquenes, Curico, Linares, Rio Claro, San Fernando, San Vicente de Taguatagua and Talca. Felt widely in central Chile.
ISC IV 22 05 12 49.8–.25 37.87S–.03 73.78W–.05 18 5.2b,5.0s 831 1-177
IDC IV 22 05 12 47.0–.44 37.92S 73.92W 0 4.9,4.8 **¶16451682**
BJI IV 22 05 12 48.2 37.27S 73.75W 19 5.3s,5.2
NEIC IV 22 05 12 48.0 37.91S 73.90W 19 5.6W,5.3L
GCMT IV 22 05 12 48.0–.10 38.10S 74.31W 14–0 5.3W,5.3L
GUC IV 22 05 12 48.5–.38 37.91S 73.91W 19–12 5.3L,5.3L
ISCJB IV 22 05 12 48.5–.14 37.88S–.02 73.74W–.04 18 5.2b,5.0s
MOS IV 22 05 12 51.6–1.2 37.88S 73.78W 33 5.3b,4.9s
ISC Event type fe.
IDC Error ellipse: s-maj=19.0km s-min=10.5km az=65.0.
NEIC Event type fe. Felt [IV] at Lebu and Tirua; [III] at Arauco, Coronel, Hualqui and Talcahuano; [II] at Angol, Concepcion and Tome. After GUC. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}1.96 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-1.84 $M_{r\theta}$-0.70 $M_{\theta\phi}$0.48 $M_{\phi r}$-1.71 Best double couple: NP1:ϕ_s188.00000°,δ67.00000°,λ108.00000°. NP2:ϕ_s329.00000°,δ29.00000°,λ54.00000°. Principal axes: T 2.8500,Plg64.0000°,Azm127.0000° ; N -0.3300,Plg16.0000°,Azm1.0000°; P -2.5200,Plg20.0000°,Azm265.0000° M_o2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s78,c103; s103,c190;Duration: 1$\dagger$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.02 $M_{\theta\theta}$-0.01±.01; $M_{\phi\phi}$-0.73±.02; $M_{r\theta}$-0.03±.03; $M_{\theta\phi}$-0.00±.01; $M_{\phi r}$-0.97±.06; Best double couple: NP1: ϕ_s182.00000°,δ71.00000°,λ91.00000°. NP2:ϕ_s359.00000°,δ19.00000°,λ88.00000°. Principal axes: T 1.2300,Plg64.0000°,Azm93.0000°; N -0.0100,Plg1.0000°,Azm1.0000° ; P -1.2190,Plg26.0000°,Azm271.0000° M_o1.22400×10^{17}
GUC Error ellipse: s-maj=2.1km s-min=4.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=6.5.
MOS Error ellipse: s-maj=17.1km s-min=7.1km az=105.1.
ISC IV 23 21 56 46.9–1.3 36.36S–.07 73.1W–.10 25 4.1b 17 0-93
ISCJB IV 23 21 56 45.5–.89 36.38S–.06 73.14W–.08 25 4.0b,3.2s **¶16577870**
NEIC IV 23 21 56 46.0 36.42S 73.23W 15 4.3b,4.0L
GUC IV 23 21 56 46.8–.41 36.42S 73.23W 15–5 4.0L,4.0L
IDC IV 23 21 56 48.4–1.5 36.31S 71.55W 0 4.0,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.9km az=143.3.
NEIC Event type fe. Felt [III] at Arauco, Concepcion, Penco and San Pedro de la Paz. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=59.6km s-min=19.1km az=85.0.
ISC IV 24 13 32 36.9–2.2 29.93S–.04 71.8W–.10 9–16 19 0-4
SJA IV 24 13 32 38.8–.53 30.51S 70.53W 323–8 4.2W,3.2L **¶16649331**
GUC IV 24 13 32 43.6–.39 29.89S 71.30W 47–2 2.5L,3.2L

ISC Event type ke.
SJA Error ellipse: s-maj=5.7km s-min=12.6km az=-1.0.
GUC Error ellipse: s-maj=1.9km s-min=4.3km az=-1.0.
ISC IV 24 22 01 09.1–2.3 32.60S–.06 71.0W–.10 69–18 30 0-5
ISCJB IV 24 22 01 07.9–1.1 32.59S–.06 71.05W–.08 78–10 **¶16649340**
SJA IV 24 22 01 07.7–.58 32.54S 70.98W 66–4 4.4W,3.4L
GUC IV 24 22 01 08.4–.32 32.57S 70.96W 70–2 3.8L,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=8.6km az=30.7.
SJA Error ellipse: s-maj=3.1km s-min=2.9km az=-1.0.
GUC Error ellipse: s-maj=2.8km s-min=5.3km az=-1.0.
ISC IV 25 06 35 29.1–.96 37.26S–.06 73.5W–.10 23 3.9b 16 1-173
GUC IV 25 06 35 16.7–.53 37.10S 74.75W 21–38 4.0L **¶16456703**
IDC IV 25 06 35 32.2–5.2 37.19S 73.12W 35–39 3.9,3.8
ISC Event type ke.
GUC Error ellipse: s-maj=3.5km s-min=12.1km az=-1.0.
IDC Error ellipse: s-maj=45.7km s-min=22.2km az=79.0.
ISC IV 26 08 01 53.9–2.1 32.33S–.04 71.89W–.09 18–4 30 1-5
GUC IV 26 08 01 59.9–.50 32.50S 71.64W 37–9 3.1L **¶16649434**
ISC Event type ke.
GUC Error ellipse: s-maj=4.6km s-min=6.2km az=-1.0.
GUC IV 26 09 37 53.2–.59 34.39S 72.14W 34–5 3.6L ¶601517225
GUC Error ellipse: s-maj=4.0km s-min=7.6km az=-1.0.
ISC IV 26 10 37 05.2–2.6 29.95S–.05 71.8W–.20 43 16 0-4
GUC IV 26 10 37 04.6–.47 29.98S 71.60W 56–3 3.0L **¶16649435**
ISC Event type ke.
GUC Error ellipse: s-maj=2.9km s-min=5.3km az=-1.0.
GUC IV 26 23 47 11.4–.55 36.38S 72.66W 33–6 3.5L ¶601517231
GUC Error ellipse: s-maj=2.1km s-min=2.4km az=-1.0.
ISC IV 28 18 13 09.7–2.0 30.64S–.04 71.50W–.10 12–12 17 1-3
ISCJB IV 28 18 13 10.8–1.1 30.63S–.04 71.45W–.09 26–9 **¶16649554**
SJA IV 28 18 13 10.1–.60 30.70S 71.50W 70–7 3.1L
GUC IV 28 18 13 11.3–.31 30.62S 71.28W 45–2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=6.0km az=6.2.
SJA Error ellipse: s-maj=2.3km s-min=5.5km az=-1.0.
GUC Error ellipse: s-maj=0.9km s-min=3.0km az=-1.0.
ISC IV 29 07 31 51.4–1.3 34.02S–.04 72.28W–.06 23–9 5.0b,4.1s 149 0-176
IDC IV 29 07 31 48.0–.62 33.96S 72.11W 0 4.4,4.3 **¶16483654**
ISCJB IV 29 07 31 49.0–1.1 34.05S–.03 72.46W–.04 18–8 4.8b,4.0s
NEIC IV 29 07 31 50.0 34.06S 72.28W 28 5.0b,4.5L
GUC IV 29 07 31 50.1–.79 34.06S 72.28W 28–4 4.5L,4.5L
BJI IV 29 07 31 52.2 34.00S 72.20W 27 5.1s,4.9b
ISC Event type fe.
IDC Error ellipse: s-maj=29.1km s-min=16.6km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=31.7.
NEIC Event type fe. Felt at San Antonio, Santiago, Valparaiso and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=2.7km s-min=5.6km az=-1.0.
ISC IV 30 12 18 29.5–2.0 34.50S–.07 72.0W–.20 31–13 17 0-7
GUC IV 30 12 18 30.0–.71 34.52S 71.88W 18–9 3.9L **¶16649701**
ISC Event type ke.
GUC Error ellipse: s-maj=5.1km s-min=11.3km az=-1.0.
ISC V 01 01 31 14.0–3.4 34.74S–.03 71.64W–.06 4–27 26 0-4
GUC V 01 01 31 14.6–.43 34.75S 71.68W 34–2 3.5L **¶16988248**
ISCJB V 01 01 31 15.5–.88 34.76S–.03 71.66W–.08 14–8 3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC V 02 23 08 26.2–2.1 34.70S–.05 72.8W–.10 10 21 1-6
GUC V 02 23 08 26.9–.31 34.75S 72.77W 38–2 3.7L **¶16988301**
ISCJB V 02 23 08 28.3–1.4 34.58S–.10 72.9W–.10 10 3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC V 03 04 34 42.0–1.5 35.65S–.05 72.9W–.10 17 15 0-6
ISCJB V 03 04 34 43.1–.93 35.65S–.04 72.92W–.09 17 **¶601517307**
GUC V 03 04 34 43.2–.44 35.61S 72.96W 11–2 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.6km az=14.1.
GUC Error ellipse: s-maj=1.9km s-min=3.0km az=-1.0.
ISC V 03 23 43 28.9–1.8 34.05S–.07 72.1W–.10 10 20 0-4
GUC V 03 23 43 28.4–.65 34.06S 72.14W 21–142 3.0L **¶601517320**
ISCJB V 03 23 43 29.7–1.1 34.06S–.05 72.1W–.10 10 3.0L
SJA V 03 23 44 07.4–.96 32.74S 69.46W 33–5 3.1W,2.0L
ISC Event type ke.
GUC Error ellipse: s-maj=51.7km s-min=87.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=4.2km az=24.5.
SJA Error ellipse: s-maj=7.9km s-min=11.4km az=-1.0.
ISC V 04 22 40 40.9–1.4 35.23S–.03 72.47W–.06 28–10 4.7b 48 1-155
ISCJB V 04 22 40 40.5–.51 35.15S–.03 72.75W–.08 33 4.7b **¶16708855**
GUC V 04 22 40 41.4–.67 35.19S 72.48W 39–3 4.0L
NEIC V 04 22 40 41.0 35.19S 72.48W 39 4.7b
IDC V 04 22 40 44.2–3.4 35.21S 72.35W 51–30 4.2L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=3.8km az=14.0.
GUC Error ellipse: s-maj=1.5km s-min=3.7km az=-1.0.
NEIC Event type fe. Felt [IV] at Constitucion and Iloca; [III] at Curico, Pencahue, San Javier and Talca; [II] at Linares and Parral. After GUC.
IDC Error ellipse: s-maj=47.8km s-min=23.1km az=83.0.
ISC V 05 12 11 50.6–3.3 33.22S–.09 71.0W–.10 74–16 22 0-4
ISCJB V 05 12 11 50.8–1.4 33.21S–.07 70.9W–.10 77–7 **¶16988371**
SJA V 05 12 11 50.9–.38 32.96S 71.04W 75–2 2.9W,2.7L
GUC V 05 12 11 50.8–.55 33.21S 70.96W 66–5 2.9L,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=10.4km az=157.3.
SJA Error ellipse: s-maj=5.9km s-min=3.8km az=-1.0.
GUC Error ellipse: s-maj=5.1km s-min=8.3km az=-1.0.
ISC V 05 21 48 14.7–1.7 36.02S–.05 73.1W–.10 28 23 0-7
ISCJB V 05 21 48 13.6–.95 35.94S–.03 73.13W–.10 28 **¶601517343**
GUC V 05 21 48 13.9–.59 35.93S 73.11W 24–5 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.9km az=5.0.
GUC Error ellipse: s-maj=2.7km s-min=4.4km az=-1.0.
ISC V 06 13 44 45.4–2.1 34.10S–.05 72.3W–.10 23–13 29 0-154
ISCJB V 06 13 44 45.8–1.4 34.10S–.05 72.3W–.10 23–9 3.6b **¶16988396**
GUC V 06 13 44 45.2–.68 34.07S 72.24W 10–2 3.3L
IDC V 06 13 44 50.2–6.4 34.28S 70.81W 34–54 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=7.2km az=11.8.
GUC Error ellipse: s-maj=2.1km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=60.2km s-min=31.8km az=81.0.
ISC V 06 15 03 07.5–2.3 29.21S–.04 71.83W–.08 3–12 32 1-153
IDC V 06 15 03 03.8–2.1 28.43S 73.77W 0 4.8L,3.8 **¶16684753**
NEIC V 06 15 03 11.0 29.31S 71.41W 72 4.3,3.8
GUC V 06 15 03 11.9–.45 29.31S 71.41W 72–16 4.3L,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=133.0km s-min=60.6km az=133.0.
NEIC Event type fe. Felt [III] at Coquimbo, La Higuera and La Serena; [II] at Alto del Carmen and Vicuna. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=24.2km az=-1.0.
ISC V 06 18 06 25.7–.87 34.75S–.04 72.11W–.09 47–7 3.8b 44 0-85
ISCJB V 06 18 06 24.0–.68 34.76S–.04 72.13W–.08 51–5 4.5b **¶16709044**
GUC V 06 18 06 25.5–.56 34.74S 71.85W 46–6 4.1L
NEIC V 06 18 06 27.1–1.1 34.64S 71.86W 49–10 4.5b
IDC V 06 18 06 28.1–4.0 34.71S 71.75W 58–43 4.1L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.0km az=10.4.
GUC Error ellipse: s-maj=1.7km s-min=9.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=20.5km s-min=8.8km az=81.0. Felt [III] at Duao, Iloca, Molina and Talca and [II] at Curico, Linares, Longavi and Romeral.
IDC Error ellipse: s-maj=42.4km s-min=32.3km az=97.0.

ISC V 06 21 27 02.0–2.3 34.17S–.06 72.2W–.10 19 15 0-3
SJA V 06 21 26 52.4–.34 32.94S 68.82W 504–2 3.6L,3.4W ¶601517350
GUC V 06 21 27 02.4–.41 34.23S 72.25W 28–13 2.8L,3.4W
ISC Event type ke.
SJA Error ellipse: s-maj=5.8km s-min=8.7km az=-1.0.
GUC Error ellipse: s-maj=8.7km s-min=7.2km az=-1.0.
ISC V 07 16 31 52.5–2.3 32.86S–.07 71.7W–.10 25 27 1-5
SJA V 07 16 31 56.9–.75 32.64S 71.40W 27–7 3.2W,2.8L ¶16988426
GUC V 07 16 31 58.0–.43 32.79S 71.12W 49–5 3.2L,2.8L
ISC Event type ke.
SJA Error ellipse: s-maj=8.5km s-min=18.7km az=-1.0.
GUC Error ellipse: s-maj=4.7km s-min=7.5km az=-1.0.
ISC V 07 22 03 44.4–1.2 34.38S–.06 72.0W–.20 20–6 24 0-6
GUC V 07 22 03 43.2–.63 34.30S 72.06W 22–3 3.5L ¶16988432
ISCJB V 07 22 03 44.7–.70 34.35S–.05 71.94W–.10 17–6 3.5L
ISC Event type ke.
ISCJB Event type ke.
GUC V 09 14 16 59.0–.43 35.51S 72.23W 15–5 3.6L
¶601517370
GUC Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC V 09 17 25 16.0–2.5 32.19S–.06 71.00W–.08 90–27 19 1-2
ISCJB V 09 17 25 15.4–1.3 32.21S–.05 71.00W–.08 97–12 ¶16988464
SJA V 09 17 25 15.8–.52 32.11S 70.93W 71–11 3.0W,2.1L
GUC V 09 17 25 16.1–.26 32.16S 70.93W 82–4 2.7L,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.4km az=7.3.
SJA Error ellipse: s-maj=4.6km s-min=3.4km az=-1.0.
GUC Error ellipse: s-maj=0.9km s-min=5.3km az=-1.0.
ISC V 09 18 28 30.5–2.3 29.23S–.05 71.5W–.20 35 15 1-4
SJA V 09 18 27 58.0–.65 28.62S 70.24W 603–11 4.2L,3.8W ¶16988467
ISCJB V 09 18 28 30.4–1.8 29.21S–.04 71.5W–.20 35 4.2L,3.8W
GUC V 09 18 28 30.8–.33 29.26S 71.30W 61–3 3.5L,3.8W
ISC Event type ke.
SJA Error ellipse: s-maj=15.3km s-min=36.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=22.6km s-min=5.3km az=6.8.
GUC Error ellipse: s-maj=1.1km s-min=4.4km az=-1.0.
ISC V 10 04 31 41.7–1.3 34.66S–.03 72.01W–.06 7–8 4.6b 89 0-176
ISCJB V 10 04 31 41.6–.91 34.65S–.03 72.13W–.06 12–5 4.5b,3.5s ¶16503272
NEIC V 10 04 31 41.0 34.65S 72.04W 16 4.6b,4.3L
IDC V 10 04 31 41.3–.78 34.54S 71.88W 0 4.5,4.3L
GUC V 10 04 31 41.8–.64 34.65S 72.04W 16–4 4.3L,4.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.6km az=11.4.
NEIC Event type fe. Felt [III] at Pichilemu and [II] at Colbun, Parral, Pencahue and Talca. After GUC.
IDC Error ellipse: s-maj=34.1km s-min=18.7km az=73.0.
GUC Error ellipse: s-maj=2.1km s-min=4.6km az=-1.0.
ISC V 10 21 33 37.6–3.3 32.52S–.07 71.6W–.20 7–16 16 1-2
SJA V 10 21 33 38.8–.47 32.53S 71.61W 10–11 3.4W,2.6L ¶16988495
GUC V 10 21 33 39.5–.43 32.67S 71.59W 8–3 2.8L,2.6L
ISC Event type ke.
SJA Error ellipse: s-maj=10.0km s-min=14.5km az=-1.0.
GUC Error ellipse: s-maj=4.7km s-min=4.4km az=-1.0.
GUC V 11 00 01 44.9–.61 36.37S 72.44W 54–4 3.8L
¶601517394
GUC Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 14 15 37 29.1–1.2 34.76S–.03 71.77W–.07 4–11 22 0-84
IDC V 14 15 37 29.6–1.6 34.58S 71.67W 0 4.1L,3.9 ¶16709864
GUC V 14 15 37 29.7–.72 34.77S 72.01W 20–9 3.9L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=57.8km s-min=31.5km az=76.0.
GUC Error ellipse: s-maj=1.6km s-min=7.5km az=-1.0.
ISC V 15 05 01 06.2–.94 36.71S–.07 73.2W–.10 35 4.4b 24 1-86
ISCJB V 15 05 01 06.0–.77 36.73S–.06 73.29W–.09 35 4.1b ¶16512092
NEIC V 15 05 01 08.0 36.68S 72.97W 40 4.5b
GUC V 15 05 01 08.9–.51 36.68S 72.97W 40–3 3.8L
IDC V 15 05 01 12.1–4.2 36.76S 72.71W 64–44 3.4L,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=8.8km az=14.2.
NEIC Event type fe. Felt [IV] at Coelemu, Coronel and Penco; [III] at Cauquenes, Chiguayante, Concepcion, Hualpen, Linares, Parral, Talcahuano and Tome; [II] at Longavi and Pelluhue. After GUC.
GUC Error ellipse: s-maj=5.3km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=62.6km s-min=36.7km az=69.0.
GUC V 15 08 36 40.8–.51 37.67S 73.53W 47–3 3.7L
¶601517432
GUC Error ellipse: s-maj=1.8km s-min=7.7km az=-1.0.
ISC V 15 20 33 21.7–2.7 34.68S–.07 72.1W–.10 12–16 18 1-6
ISCJB V 15 20 33 23.6–1.7 34.72S–.06 71.9W–.20 29–14 ¶16988610
GUC V 15 20 33 23.9–.55 34.72S 71.83W 42–3 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.5km s-min=5.2km az=22.1.
GUC Error ellipse: s-maj=2.3km s-min=6.0km az=-1.0.
GUC V 15 21 06 22.2–.36 36.83S 73.20W 30–2 3.5L
¶601517434
GUC Error ellipse: s-maj=2.6km s-min=3.6km az=-1.0.
ISC V 16 07 25 46.5–2.4 29.38S–.04 71.6W–.10 6–16 18 1-4
ISCJB V 16 07 25 46.7–2.1 29.38S–.04 71.6W–.10 4–10 ¶16988625
SJA V 16 07 25 47.0–1.1 29.43S 71.55W 14–16 3.7W,3.7L
GUC V 16 07 25 47.8–.65 29.44S 71.49W 41–6 3.8L,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=6.1km az=11.7.
SJA Error ellipse: s-maj=15.4km s-min=23.8km az=-1.0.
GUC Error ellipse: s-maj=2.1km s-min=7.0km az=-1.0.
ISC V 17 07 05 24.5–1.4 36.28S–.07 72.68W–.10 58 13 0-8
ISCJB V 17 07 05 23.9–.66 36.24S–.05 72.70W–.09 58 ¶16988646
GUC V 17 07 05 24.0–.45 36.36S 72.67W 72–3 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.5km az=26.8.
GUC Error ellipse: s-maj=1.9km s-min=2.7km az=-1.0.
ISC V 17 09 24 40.7–1.1 36.86S–.04 72.56W–.06 56–10 3.5b 30 0-86
ISCJB V 17 09 24 39.6–.51 36.88S–.03 72.49W–.08 63–7 3.5b ¶16988647
GUC V 17 09 24 40.9–.36 36.88S 72.47W 56–1 3.9L
IDC V 17 09 24 42.1–1.3 36.99S 69.66W 0 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.8km az=10.9.
GUC Error ellipse: s-maj=0.9km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=56.7km s-min=19.7km az=96.0.
ISC V 17 15 21 04.3–2.8 32.18S–.08 71.9W–.20 17 17 1-5
SJA V 17 15 21 06.0–1.5 32.09S 71.48W 10–42 3.1W,2.9L ¶16988650
GUC V 17 15 21 07.6–.46 32.12S 71.37W 40–3 2.7L,2.9L
ISC Event type ke.
SJA Error ellipse: s-maj=13.3km s-min=52.5km az=-1.0.
GUC Error ellipse: s-maj=3.4km s-min=14.0km az=-1.0.
ISC V 18 00 43 19.3–.67 37.12S–.05 73.81W–.08 35 4.2b 52 1-160
IDC V 18 00 43 13.7–1.7 37.11S 73.83W 0 4.2,4.1L ¶16710146
GUC V 18 00 43 14.7–.46 37.03S 74.05W 39–2 5.3L,4.1L
NEIC V 18 00 43 14.0 37.03S 74.05W 39 4.6b,4.1L
ISCJB V 18 00 43 17.2–.51 37.13S–.03 73.80W–.06 33 4.2b,3.4s
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Arauco; [III] at Concepcion, Hualpen, La Laja, Lebu, San Pedro de la Paz and Talcahuano; [II] at Chiguayante, Los Alamos and Penco. After GUC.
ISCJB Event type fe.
ISC V 18 07 36 47.7–2.4 34.27S–.06 72.5W–.10 14–11 24 0-7
ISCJB V 18 07 36 48.1–1.5 34.29S–.04 72.52W–.08 14–7 ¶16988661
GUC V 18 07 36 48.5–.42 34.27S 72.53W 15–4 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=5.5km az=24.5.
GUC Error ellipse: s-maj=1.5km s-min=2.7km az=-1.0.
ISC V 18 11 07 21.3–1.5 38.08S–.03 73.52W–.07 12–9 4.2b 44 1-160
IDC V 18 11 07 19.9–1.0 37.95S 73.24W 0 4.2,4.1b ¶16684772
GUC V 18 11 07 21.9–.62 38.12S 73.49W 15–6 4.0L,4.1b
NEIC V 18 11 07 21.0 38.12S 73.49W 15 4.5b,4.0L
ISCJB V 18 11 07 22.4–1.1 38.09S–.04 73.4W–.10 26–8 4.2b,2.8s
ISC Event type se.
NEIC Event type se. After GUC.
ISCJB Event type se.
ISC V 19 06 38 23.4–1.1 34.79S–.03 71.91W–.08 27–12 27 0-7
ISCJB V 19 06 38 23.5–.62 34.77S–.03 71.83W–.07 25–7 ¶16988682
GUC V 19 06 38 23.0–.30 34.76S 71.83W 39–1 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.3km az=14.9.
GUC Error ellipse: s-maj=0.6km s-min=1.4km az=-1.0.
GUC V 19 13 22 26.6–.54 34.46S 71.85W 41–257 3.9L
¶601517451
GUC Error ellipse: s-maj=54.2km s-min=85.3km az=-1.0.
ISC V 19 14 24 17.6–1.9 30.31S–.05 71.4W–.10 71–12 20 0-5
ISCJB V 19 14 24 16.8–1.2 30.30S–.05 71.4W–.10 74–9 ¶16988688
SJA V 19 14 24 16.2–.84 30.42S 71.28W 23–22 2.7W,2.5L
GUC V 19 14 24 17.2–.51 30.25S 71.16W 75–3 3.0L,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=7.4km az=171.8.
SJA Error ellipse: s-maj=6.0km s-min=13.7km az=-1.0.
GUC Error ellipse: s-maj=3.3km s-min=5.4km az=-1.0.
ISC V 19 17 05 11.3–.27 34.75S–.03 71.66W–.05 46–2 5.2b,4.4s 895 0-179
MOS V 19 17 05 10.9–1.2 34.75S 71.72W 50 5.4b,4.4s ¶16529269
BJI V 19 17 05 11.5 34.70S 71.50W 46 5.3s,5.0b
IDC V 19 17 05 11.2–.36 34.67S 71.66W 47–2 5.0,4.8
NEIC V 19 17 05 11.0 34.75S 71.67W 36 5.2b,4.8
GUC V 19 17 05 11.3–.66 34.75S 71.67W 36–3 5.2L,4.8
GCMT V 19 17 05 11.6–.20 34.63S 71.95W 53–1 5.2W,4.8
ISCJB V 19 17 05 12.0–.39 34.76S–.02 71.63W–.05 68–3 5.0b,4.8
SJA V 19 17 05 15.4–.49 34.43S 71.59W 127–8 5.1W,5.0L
ISC Event type fe.
MOS Error ellipse: s-maj=17.5km s-min=7.4km az=101.3.
IDC Error ellipse: s-maj=14.9km s-min=10.3km az=70.0.
NEIC Event type fe. Felt [VI] at Constitucion and [V] at Cauquenes, Hualane, Linares, Longavi, Maule, Molina, Paredones, Parral, Pichilemu, San Clemente and Talca. Felt widely in central Chile from Los Andes to Los Angeles. Felt at Mendoza, Argentina. After GUC.
GUC Error ellipse: s-maj=1.4km s-min=4.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c86; s71,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.58±.20 $M_{\theta\theta}$0.59±.17; $M_{\phi\phi}$-6.17±.16; $M_{r\theta}$1.74±.14; $M_{\theta\phi}$-0.34±.14; $M_{\phi r}$-3.57±.16; Best double couple: NP1:ϕ_s167.00000°,δ62.00000°,λ74.00000°. NP2:ϕ_s19.00000°,δ32.00000°,λ118.00000°. Principal axes: T 7.0620,Plg68.0000°,Azm44.0000°; N 0.1140,Plg14.0000°,Azm175.0000°; P -7.1720,Plg16.0000°,Azm269.0000° $M_0$7.11700×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.7km az=7.0.
SJA Error ellipse: s-maj=9.1km s-min=12.2km az=-1.0.
ISC V 20 01 39 14.5–2.0 30.98S–.03 71.83W–.08 3–13 30 1-6
GUC V 20 01 39 20.3–.31 30.91S 71.57W 40–1 3.5L ¶16988698
ISC Event type ke.
GUC Error ellipse: s-maj=0.9km s-min=3.7km az=-1.0.
ISC V 20 07 44 34.2–1.7 33.53S–.05 71.97W–.08 4–13 28 1-7
GUC V 20 07 44 35.9–.29 33.56S 71.98W 37–1 3.7L ¶16988704
ISC Event type ke.
GUC Error ellipse: s-maj=1.5km s-min=1.9km az=-1.0.
GUC V 20 18 13 36.1–.58 34.74S 72.59W 21–3 3.7L
¶601517462
GUC Error ellipse: s-maj=2.0km s-min=4.7km az=-1.0.
GUC V 21 21 34 38.3–.67 35.25S 72.50W 20–4 3.7L
¶601517474
GUC Error ellipse: s-maj=3.3km s-min=6.4km az=-1.0.
ISC V 22 11 20 00.1–1.7 34.01S–.04 72.35W–.08 15–9 4.6b 69 0-176
IDC V 22 11 19 57.7–.79 34.02S 72.26W 0 4.4,4.3 ¶16535844
ISCJB V 22 11 19 59.2–1.3 34.01S–.03 72.40W–.07 20–9 4.6b,3.1s
NEIC V 22 11 20 01.0 34.03S 72.14W 18 4.7b,4.2L
GUC V 22 11 20 01.2–.58 34.03S 72.14W 18–3 4.2L,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=19.6km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.2km az=12.1.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=7.2km az=-1.0.
ISC V 22 12 27 54.3–2.2 36.07S–.04 73.6W–.10 2–12 30 1-9
GUC V 22 12 27 57.8–.33 36.20S 73.56W 35–2 4.2L ¶16988871
ISC Event type ke.
GUC Error ellipse: s-maj=2.1km s-min=3.9km az=-1.0.
ISC V 22 18 11 57.6–.81 36.13S–.04 73.60W–.06 10 3.8b 45 1-157
ISCJB V 22 18 11 55.5–.60 36.08S–.04 73.72W–.06 10 3.8b ¶16710643
IDC V 22 18 11 56.4–1.4 36.11S 73.30W 0 4.0,3.9
GUC V 22 18 11 59.4–.60 36.23S 73.53W 17–12 4.1L,3.9
NEIC V 22 18 12 02.9–1.4 36.11S 73.13W 43–11 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.6km az=12.4.
IDC Error ellipse: s-maj=42.5km s-min=25.8km az=76.0.
GUC Error ellipse: s-maj=7.3km s-min=11.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=7.9km az=92.0.
ISC V 24 02 41 41.8–1.0 36.1S–.10 73.3W–.20 35 3.8s,3.8b 17 3-89
IDC V 24 02 41 36.3–1.2 36.14S 73.44W 0 4.0,3.9L ¶17204348
ISCJB V 24 02 41 39.9–.80 36.13S–.07 73.3W–.20 33 3.8b,3.7s
ISC Event type ke.
ISCJB Event type ke.
IDC V 24 03 36 32.1–1.8 36.20S 73.64W 0 3.6,3.5
¶17204350
IDC Error ellipse: s-maj=77.8km s-min=21.3km az=68.0.
ISC V 24 04 28 35.9–2.1 34.23S–.07 71.04W–.05 29–18 28 1-7
ISCJB V 24 04 28 35.4–.96 34.30S–.07 70.87W–.09 38–35 ¶16988938
SJA V 24 04 28 35.1–.86 34.13S 70.65W 10–21 4.2L,3.2W
GUC V 24 04 28 39.0–.68 33.92S 71.35W 25–21 3.7L,3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=9.6km az=31.4.
SJA Error ellipse: s-maj=19.1km s-min=22.6km az=-1.0.
GUC Error ellipse: s-maj=2.7km s-min=3.3km az=-1.0.
ISC V 24 05 24 56.2–1.4 36.1S–.10 73.4W–.30 35 3.9b 8 5-86
IDC V 24 05 24 50.9–1.5 36.10S 73.46W 0 4.0,4.0L ¶17204356
ISCJB V 24 05 24 53.9–1.2 36.13S–.10 73.5W–.40 33 3.8b,4.0L
ISC Event type ke.
ISCJB Event type ke.
IDC V 24 07 44 04.6–2.0 36.26S 73.91W 0 3.5,3.4
¶17204363
IDC Error ellipse: s-maj=79.9km s-min=21.8km az=67.0.
ISC V 24 13 21 19.4–2.5 32.19S–.05 71.8W–.10 4–13 26 1-5
SJA V 24 13 21 18.4–.64 32.15S 71.88W 30–8 4.4L,3.7W ¶16988947
GUC V 24 13 21 23.3–.36 32.08S 71.39W 38–2 3.6L,3.7W
ISC Event type ke.
SJA Error ellipse: s-maj=5.9km s-min=8.6km az=-1.0.
GUC Error ellipse: s-maj=3.6km s-min=8.2km az=-1.0.
ISC V 24 19 38 22.9–2.5 31.33S–.05 71.9W–.10 11–15 4.4b 39 1-152
ISCJB V 24 19 38 21.1–2.1 31.35S–.04 72.12W–.10 17–17 4.3b ¶16710844
IDC V 24 19 38 21.0–1.6 31.31S 71.86W 0 4.3b,4.0
NEIC V 24 19 38 23.5–2.3 31.29S 71.95W 18–14 4.4b,4.0
GUC V 24 19 38 24.4–.49 31.52S 71.53W 76–16 4.3L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=5.9km az=2.9.
IDC Error ellipse: s-maj=62.4km s-min=38.3km az=100.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=5.2km az=83.0.
GUC Error ellipse: s-maj=4.4km s-min=12.9km az=-1.0.
GUC V 26 22 08 35.6–.36 37.22S 73.61W 24–3 3.5L
¶601517517
GUC Error ellipse: s-maj=1.0km s-min=3.5km az=-1.0.
ISC V 27 02 36 50.9–2.2 34.24S–.05 72.1W–.20 32–13 16 0-7
GUC V 27 02 36 49.9–.44 34.21S 72.18W 32–2 3.8L ¶16989000

ISCJB V 27 02 36 50.6–1.7 34.18S–.06 72.3W–.10 19–14 3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC V 29 03 14 01.0–1.6 36.12S–.06 73.6W–.10 35 23 1-50
GUC V 29 03 13 57.1–.74 36.09S 73.75W 27–6 3.7L ¶16989046
ISCJB V 29 03 13 58.3–1.0 36.04S–.04 73.6W–.10 33 3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC V 29 05 02 04.5–2.3 35.01S–.04 72.86W–.08 5–14 3.9b 43 1-154
IDC V 29 05 02 04.2–1.4 35.03S 72.62W 0 4.0,3.9 ¶16711181
GUC V 29 05 02 08.0–.61 35.08S 72.83W 49–10 4.5L,3.9
NEIC V 29 05 02 08.0 35.08S 72.83W 49 4.5,3.9
ISC Event type se.
IDC Error ellipse: s-maj=48.7km s-min=19.7km az=79.0.
GUC Error ellipse: s-maj=2.4km s-min=7.9km az=-1.0.
NEIC Event type se. After GUC.
ISC V 30 09 59 13.0–1.8 34.25S–.09 72.2W–.10 25–11 19 0-84
ISCJB V 30 09 59 11.5–1.4 34.25S–.06 72.34W–.09 24–8 3.9b ¶17204751
GUC V 30 09 59 11.9–.53 34.21S 72.31W 25–21 3.6L
IDC V 30 09 59 13.0–4.7 34.31S 71.26W 0 3.9b,3.8
SJA V 30 09 59 39.6–.59 31.53S 68.98W 107–5 3.7W,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=6.2km az=36.2.
GUC Error ellipse: s-maj=12.2km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=173.6km s-min=23.7km az=93.0.
SJA Error ellipse: s-maj=3.1km s-min=5.5km az=-1.0.
SJA V 30 13 24 58.9–.67 28.18S 71.39W 3–15 3.8W,3.4L
¶16989082
SJA Error ellipse: s-maj=5.3km s-min=10.2km az=-1.0.
ISC V 30 13 41 22.4–1.0 34.68S–.05 72.6W–.10 40–11 29 1-120
IDC V 30 13 41 16.9–1.4 34.67S 72.69W 0 4.0,4.0L ¶16702312
ISCJB V 30 13 41 20.8–.93 34.66S–.04 72.6W–.10 42–15 3.5b,4.0L
GUC V 30 13 41 20.3–.48 34.67S 72.46W 65–56 3.8L,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=27.4km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=4.8km az=19.3.
GUC Error ellipse: s-maj=6.1km s-min=14.9km az=-1.0.
ISC V 30 22 52 26.4–3.0 34.21S–.05 72.2W–.10 8–19 22 0-7
ISCJB V 30 22 52 25.6–2.1 34.17S–.04 72.3W–.10 15–22 ¶16989098
GUC V 30 22 52 26.8–.30 34.20S 72.26W 30–3 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=6.6km az=3.8.
GUC Error ellipse: s-maj=1.2km s-min=2.8km az=-1.0.
ISC V 31 05 01 46.3–1.7 34.82S–.04 71.73W–.07 20–6 27 0-7
GUC V 31 05 01 46.7–.59 34.75S 71.83W 50–3 3.6L ¶16989101
SJA V 31 05 01 48.8–.50 34.73S 71.47W 152–14 3.3L
ISC Event type ke.
GUC Error ellipse: s-maj=1.4km s-min=4.1km az=-1.0.
SJA Error ellipse: s-maj=4.4km s-min=15.3km az=-1.0.
ISC V 31 06 27 53.3–1.7 33.62S–.07 71.89W–.09 5–13 24 1-7
GUC V 31 06 27 53.5–.61 33.64S 71.89W 38–6 3.3L ¶16989103
ISC Event type ke.
GUC Error ellipse: s-maj=3.0km s-min=3.8km az=-1.0.
GUC VI 01 04 44 32.6–.64 34.53S 72.03W 45–11 3.6L
¶601517627
GUC Error ellipse: s-maj=2.1km s-min=8.0km az=-1.0.
GUC VI 01 05 39 57.7–.49 36.20S 73.55W 30–4 3.5L
¶601517629
GUC Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.
ISC VI 01 12 55 21.0–.18 37.56S–.03 73.83W–.04 10 6.3s,5.6b 1338 1-178
GUC VI 01 12 55 07.0–.64 37.58S 75.22W 10–8 6.1L,5.6b ¶16722583
IDC VI 01 12 55 18.9–.34 37.60S 73.70W 0 6.3,6.3s
ISCJB VI 01 12 55 18.4–.13 37.51S–.02 73.91W–.04 10 6.3s,5.5b
BJI VI 01 12 55 21.9 37.45S 73.45W 20 6.6s,6.5
NEIC VI 01 12 55 21.0–.00 37.54S 73.16W 15 6.6s,6.5
NEIC VI 01 12 55 22.4–.16 37.58S 73.69W 21 6.3W,6.3W
GCMT VI 01 12 55 22.4–.10 37.74S 74.41W 12 6.3W,6.3W
MOS VI 01 12 55 23.5–1.2 37.50S 73.67W 33 6.3s,5.7b
ISC Event type fe.
GUC Error ellipse: s-maj=2.3km s-min=10.5km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=10.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=162.9.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{18}Nm; M_{rr}0.70 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$-0.10 $M_{r\theta}$-0.60 $M_{\theta r}$-2.70 Best double couple: NP1:ϕ_s185.00000° ,δ83.00000°,λ78.00000°. NP2:ϕ_s65.00000°,δ13.00000°,λ150.00000°. Principal axes: T 3.0000,Plg50.0000°,Azm81.0000°; N -0.2000,Plg11.0000°,Azm186.0000° ; P -2.8000,Plg37.0000°,Azm285.0000° M_o3.00000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.6km az=77.0. Felt [IV] at Arauco, Canete, Carahue, Concepcion, Contulmo, Curarrehue, Lebu, Los Alamos, Lota, Puerto Saavedra and Tirua. Felt widely in Araucania and Bio-Bio and in parts of Los Rios. Felt at Neuquen, Argentina. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o4.90000×10^{18} Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}1.78 $M_{\theta\theta}$0.34 $M_{\phi\phi}$-2.12 $M_{r\theta}$-1.13 $M_{\theta\phi}$1.60 $M_{\theta r}$-3.04 Best double couple: NP1:ϕ_s188.00000°,δ76.00000°,λ119.00000°. NP2: ϕ_s303.00000°,δ32.00000°,λ28.00000°. Principal axes: T 4.2500,Plg51.0000°,Azm131.0000° ; N -0.2800,Plg28.0000°,Azm1.0000°; P -3.9700,Plg25.0000°,Azm256.0000° M_o4.10000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s5.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s185.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm95.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000° ,Azm275.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c285; s140,c554;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}2.25±.01 $M_{\theta\theta}$0.02±.01; $M_{\phi\phi}$-2.27±.01; $M_{r\theta}$-0.19±.03; $M_{\theta\phi}$-0.07±.01; $M_{\theta r}$-3.40±.03; Best double couple: NP1:ϕ_s183.00000°,δ73.00000°,λ91.00000°. NP2:ϕ_s1.00000°,δ17.00000° ,λ88.00000°. Principal axes: T 4.0770,Plg62.0000°,Azm94.0000°; N 0.0180,Plg1.0000° ,Azm3.0000°; P -4.0990,Plg28.0000°,Azm272.0000° M_o4.08800×10^{18}
MOS Error ellipse: s-maj=13.5km s-min=7.2km az=96.9.
ISC VI 01 13 47 28.6–.27 37.59S–.03 73.72W–.06 23 5.3s,5.0b 360 1-175
IDC VI 01 13 47 25.2–.46 37.62S 73.83W 0 5.1s,5.0 ¶16553283
GUC VI 01 13 47 26.0–.46 37.56S 74.12W 36–2 5.2L,5.0
ISCJB VI 01 13 47 27.4–.19 37.57S–.03 73.76W–.05 23 5.3s,4.9b
NEIC VI 01 13 47 29.6–1.8 37.49S 73.67W 28–12 5.2L,5.1b
GCMT VI 01 13 47 29.6–.50 37.37S 74.30W 27–1 5.4W,5.1b
MOS VI 01 13 47 29.4–1.3 37.50S 73.82W 33 5.2b,5.1b
ISC Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=13.4km az=86.0.
GUC Error ellipse: s-maj=1.4km s-min=4.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=179.8.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=4.8km az=78.0. Felt [IV] at Curanilahue and Lebu; [III] at Arauco, Concepcion, Contulmo, Coronel, Hualpen, La Laja, Longavi, Melipeuco, Penco, San Pedro de la Paz, San Rosendo, Tirua and Tolten; [II] at Carahue, Los Sauces, Parral and Temuco. Also felt at Chillan and Talcahuano.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c26; s60,c79; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06±.10 $M_{\theta\theta}$-0.15±.06; $M_{\phi\phi}$-0.90±.07; $M_{r\theta}$-0.44±.09; $M_{\theta\phi}$-0.21±.03; $M_{\theta r}$-0.90±.10; Best double couple: NP1:ϕ_s202.00000° ,δ68.00000°,λ95.00000°. NP2:ϕ_s9.00000°,δ23.00000°,λ77.00000°. Principal axes: T 1.4840,Plg67.0000°,Azm122.0000°; N -0.1190,Plg5.0000°,Azm20.0000° ; P -1.3630,Plg22.0000°,Azm288.0000° M_o1.42400×10^{17}
MOS Error ellipse: s-maj=16.9km s-min=9.3km az=98.1.
GUC VI 01 16 09 54.5–.54 35.00S 72.14W 35–2 3.6L
¶601517633
GUC Error ellipse: s-maj=1.2km s-min=3.0km az=-1.0.
ISC VI 02 12 21 33.6–2.1 34.05S–.04 72.19W–.07 14–12 4.5b,3.5s 59 1-157
ISCJB VI 02 12 21 34.1–1.6 34.04S–.04 72.27W–.06 31–12 4.4b,3.7s ¶16856104
GUC VI 02 12 21 34.0–.38 34.05S 72.19W 45–3 4.4L,3.7s
NEIC VI 02 12 21 34.0 34.05S 72.19W 45 4.5b,3.7s
IDC VI 02 12 21 36.3–7.3 34.02S 72.00W 29–49 4.2,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.9km az=23.8.
GUC Error ellipse: s-maj=1.4km s-min=3.3km az=-1.0.
NEIC Event type fe. Felt [III] at Pichilemu and [II] at Limache, Melipilla, Rancagua, San Antonio and Talca. After GUC.
IDC Error ellipse: s-maj=31.2km s-min=21.0km az=88.0.
GUC VI 04 00 27 49.2–.35 37.65S 73.94W 30–3 3.7L
¶601517659
GUC Error ellipse: s-maj=1.0km s-min=3.5km az=-1.0.
ISC VI 04 02 10 50.6–1.4 37.53S–.08 73.7W–.10 23 9 1-87
GUC VI 04 02 10 46.6–.36 37.67S 73.83W 19–8 3.6L ¶17205147
IDC VI 04 02 10 48.8–1.8 37.04S 72.71W 0 3.8,3.5
ISCJB VI 04 02 10 49.3–1.3 37.56S–.08 73.9W–.20 23 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 02 20 46.6–1.0 37.57S–.07 73.97W–.10 35 3.8b 26 1-145
SJA VI 04 02 20 38.4–.34 40.47S 71.97W 139–32 3.1W,2.9L ¶16646371
IDC VI 04 02 20 40.9–2.1 37.48S 74.12W 0 4.1L,4.0
NEIC VI 04 02 20 42.0 37.69S 74.19W 29 4.1L,3.8b
GUC VI 04 02 20 42.4–.41 37.69S 74.19W 29–5 4.1L,3.8b
ISCJB VI 04 02 20 44.8–.83 37.53S–.07 73.97W–.08 33 3.7b,3.6s
ISC Event type fe.
NEIC Event type fe. Felt [III] at Lebu and Puren. After GUC.
ISCJB Event type fe.
GUC VI 04 03 54 56.3–.42 37.65S 73.88W 37–5 3.7L
¶601517661
GUC Error ellipse: s-maj=1.5km s-min=4.2km az=-1.0.
GUC VI 05 00 53 26.5–.74 34.92S 71.67W 36–8 3.6L
¶601517691
GUC Error ellipse: s-maj=14.2km s-min=26.0km az=-1.0.
ISC VI 05 06 25 20.7–2.6 36.71S–.07 73.5W–.10 10 18 0-8
GUC VI 05 06 25 22.0–.36 36.68S 73.46W 7–1 3.6L ¶601517693
ISC Event type ke.
GUC Error ellipse: s-maj=1.0km s-min=2.5km az=-1.0.
ISC VI 06 04 31 16.7–.99 33.93S–.05 71.14W–.08 75–8 3.6b 27 1-152
ISCJB VI 06 04 31 16.4–.63 33.95S–.05 71.09W–.09 83–5 3.5b ¶16702422
SJA VI 06 04 31 16.6–.61 33.83S 71.22W 87–9 3.6W,3.4L
NEIC VI 06 04 31 17.0 33.92S 71.14W 68 3.5b,3.4L
GUC VI 06 04 31 17.4–.46 33.92S 71.14W 68–12 3.9L,3.4L
IDC VI 06 04 31 33.2–18 33.34S 70.69W 199–130 3.9,3.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.1km az=14.3.
SJA Error ellipse: s-maj=10.6km s-min=14.4km az=-1.0.
NEIC Event type fe. Felt [III] at Rancagua, Rengo and San Fernando; [II] at San Antonio and Villa Alemana. Also felt at Santiago. After GUC.
GUC Error ellipse: s-maj=1.9km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=143.6km s-min=57.2km az=34.0.
GUC VI 06 22 02 33.7–.59 34.81S 71.86W 46–5 3.8L
¶601517713
GUC Error ellipse: s-maj=2.3km s-min=8.8km az=-1.0.
ISC VI 07 01 07 05.7–.95 34.55S–.03 71.99W–.06 13–5 4.5b,3.2s 95 0-157
IDC VI 07 01 07 03.7–.57 34.52S 71.97W 0 4.4,4.4L ¶16577410
ISCJB VI 07 01 07 05.1–.61 34.54S–.03 72.04W–.05 19–4 4.4b,3.3s
NEIC VI 07 01 07 05.0 34.55S 71.96W 20 4.6b,4.6L
GUC VI 07 01 07 05.0–.50 34.55S 71.96W 20–3 4.6L,4.6L
ISC Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=15.3km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=11.3.
NEIC Event type fe. Felt [IV] at Pichilemu; [III] at Lolol and Paredones; [II] at Cauquenes, Constitucion, Iloca, Navidad, Pencahue, Rancagua, Rio Claro and Talca. Also felt at Santiago and Vina del Mar. After GUC.
GUC Error ellipse: s-maj=1.4km s-min=4.7km az=-1.0.
ISC VI 07 04 12 14.5–.99 34.55S–.03 71.96W–.06 13–7 3.8b 40 0-126
ISCJB VI 07 04 12 14.0–.73 34.57S–.03 72.00W–.08 13–5 3.6b,3.2s ¶16679577
NEIC VI 07 04 12 14.0 34.56S 71.96W 17 3.8L,3.2s
GUC VI 07 04 12 14.2–.58 34.56S 71.96W 17–4 3.8L,3.2s
IDC VI 07 04 12 17.8–5.8 34.62S 71.81W 35–47 3.9L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=4.1km az=17.1.
NEIC Event type fe. Felt [III] at Lolol, Paredones and Pichilemu; [II] at Curico, Iloca, Pencahue, Rancagua and Talca. After GUC.
GUC Error ellipse: s-maj=1.6km s-min=5.5km az=-1.0.
IDC Error ellipse: s-maj=44.1km s-min=27.3km az=94.0.
ISC VI 07 07 55 34.2–2.4 32.85S–.05 71.86W–.10 10–13 33 1-25
SJA VI 07 07 55 29.4–1.1 32.88S 72.32W 10 3.8W,3.7L ¶16856535
GUC VI 07 07 55 36.8–.40 32.80S 71.63W 22–5 3.7L,3.7L
NEIC VI 07 07 55 36.0 32.79S 71.63W 22 3.7L,3.5b
ISC Event type fe.
SJA Error ellipse: s-maj=12.0km s-min=11.8km az=-1.0.
GUC Error ellipse: s-maj=4.6km s-min=3.1km az=-1.0.
NEIC Event type fe. Felt [III] at Puchuncavi, Valparaiso and Vina del Mar; [II] at Pichilemu. After GUC.
ISC VI 07 11 37 35.1–2.3 30.54S–.04 71.2W–.10 33–4 15 0-3
GUC VI 07 11 37 34.7–.44 30.56S 70.69W 61–3 3.3L ¶16989260
SJA VI 07 11 37 39.0–.63 30.69S 71.11W 80–76 3.5
ISC Event type ke.
GUC Error ellipse: s-maj=1.0km s-min=17.0km az=-1.0.
SJA Error ellipse: s-maj=4.9km s-min=29.3km az=-1.0.
SJA VI 07 20 12 18.7–.81 31.74S 71.45W 90–31 3.6W,2.9L
¶16989263
SJA Error ellipse: s-maj=9.4km s-min=6.6km az=-1.0.
ISC VI 08 04 41 33.6–1.2 34.02S–.04 72.27W–.06 30–7 4.8b,4.5s 316 0-176
IDC VI 08 04 41 29.1–.65 34.05S 72.13W 0 4.6,4.5 ¶16577425
ISCJB VI 08 04 41 31.2–1.1 34.00S–.03 72.36W–.05 21–8 4.7b,4.5s
BJI VI 08 04 41 31.5 34.56S 71.94W 27 5.2s,5.1b
NEIC VI 08 04 41 31.0 34.03S 72.20W 23 4.9b,4.9L
GUC VI 08 04 41 31.3–.59 34.03S 72.20W 23–3 4.9L,4.9L
ISC Event type fe.
IDC Error ellipse: s-maj=23.8km s-min=19.3km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.9km az=18.4.
NEIC Event type fe. Felt [III] at Talca and Vina del Mar and [II] at Constitucion, Curico, Iloca, Linares, Litueche, Melipilla, Navidad, Paredones, Pencahue, Pichilemu, Rancagua, San Antonio, Santiago, Santo Domingo and Tiltil. Also felt at Los Andes, Valparaiso and Villa Alemana. After GUC.
GUC Error ellipse: s-maj=2.4km s-min=4.7km az=-1.0.
ISC VI 08 08 03 04.2–2.0 32.44S–.05 71.89W–.08 8–11 29 1-122
IDC VI 08 08 03 02.6–1.8 32.45S 71.98W 0 4.0,3.9 ¶16856643
SJA VI 08 08 03 04.4–.60 32.44S 71.95W 10 4.1W,3.8L
GUC VI 08 08 03 06.9–.46 32.34S 71.64W 28–3 3.9L,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=59.4km s-min=33.1km az=123.0.
SJA Error ellipse: s-maj=3.6km s-min=5.6km az=-1.0.
GUC Error ellipse: s-maj=5.9km s-min=7.7km az=-1.0.
ISC VI 09 19 35 59.6–1.7 34.64S–.03 71.95W–.08 1–10 4.4b,3.1s 51 1-167
IDC VI 09 19 35 59.7–.66 34.56S 71.81W 0 4.5L,4.4 ¶16856804
ISCJB VI 09 19 36 01.4–1.4 34.67S–.03 72.01W–.08 19–10 4.3b,3.2s
NEIC VI 09 19 36 02.0 34.69S 71.91W 25 4.6b,4.2L
GUC VI 09 19 36 02.2–.48 34.69S 71.91W 25–3 4.2L,4.2L
ISC Event type fe.
IDC Error ellipse: s-maj=32.7km s-min=16.5km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=4.1km az=21.3.
NEIC Event type fe. Felt [III] at Chepica, Curico, Lolol, Molina, Paredones, Pichilemu, Santa Cruz and Talca; [II] at Constitucion, Iloca, Longavi, Pencahue and Rancagua. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=3.3km az=-1.0.
ISC VI 10 09 14 10.7–1.1 34.00S–.05 72.96W–.08 10 23 2-153
IDC VI 10 09 14 08.2–1.5 34.12S 73.67W 0 4.2L,4.1 ¶16856857
GUC VI 10 09 14 09.8–.71 34.08S 73.19W 14–10 3.7L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=26.0km az=79.0.
GUC Error ellipse: s-maj=3.2km s-min=13.2km az=-1.0.
ISC VI 10 17 11 52.6–1.9 35.31S–.05 72.51W–.08 11–13 20 1-6
ISCJB VI 10 17 11 52.5–2.1 35.29S–.04 72.47W–.10 11–14 ¶16989316
GUC VI 10 17 11 53.3–.53 35.28S 72.46W 26–9 3.6L
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=5.2km az=18.6.
GUC Error ellipse: s-maj=3.4km s-min=3.4km az=-1.0.
GUC VI 10 20 24 50.0–.41 35.27S 72.47W 30–5 3.6L
¶601517739
GUC Error ellipse: s-maj=1.0km s-min=2.8km az=-1.0.
GUC VI 11 03 21 40.7–.61 36.00S 72.88W 32–4 3.5L
¶601517741
GUC Error ellipse: s-maj=3.9km s-min=6.8km az=-1.0.
ISC VI 13 04 02 40.3–3.5 32.67S–.08 72.0W–.20 25–19 20 1-3
SJA VI 13 04 02 43.0–2.4 32.74S 71.96W 20–24 3.2W,2.7L **¶16989354**
GUC VI 13 04 02 44.4–.61 32.82S 71.70W 31–6 2.9L,2.7L
ISC Event type ke.
SJA Error ellipse: s-maj=38.3km s-min=45.9km az=-1.0.
GUC Error ellipse: s-maj=9.6km s-min=5.8km az=-1.0.
ISC VI 13 05 19 55.3–.54 32.41S–.03 71.36W–.05 44–4 4.7b,3.7s 127 1-167
SJA VI 13 05 19 50.3–.83 32.33S 71.77W 35–40 4.7W,4.7L **¶16593451**
ISCJB VI 13 05 19 55.5–.41 32.43S–.02 71.33W–.06 61–4 4.6b,4.7L
GUC VI 13 05 19 55.7–.70 32.42S 71.23W 46–2 4.7L,4.7L
NEIC VI 13 05 19 55.0 32.42S 71.22W 46 4.7b,4.7L
IDC VI 13 05 19 56.0–.64 32.35S 71.06W 50–5 4.4,4.3
ISC Event type fe.
SJA Error ellipse: s-maj=7.1km s-min=36.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.1km az=177.4.
GUC Error ellipse: s-maj=1.4km s-min=5.1km az=-1.0.
NEIC Event type fe. Felt [V] at Quillota, San Felipe and Zapallar; [IV] at Algarrobo, Cabildo, Casablanca, La Ligua, Los Andes, Papudo, Puchuncavi, Quintero, Tiltil, Valparaiso, Villa Alemana and Vina del Mar; [III] at Canela, Melipilla, Penaflor, Petorca, Salamanca, San Antonio, San Bernardo, San Jose de Maipo and Santiago; [II] at Illapel, Los Vilos, Rancagua and Talca. Also felt at Buin, Calera, Colina, Lampa, Limache, Llaillay, Paine, Puente Alto, Quilpue, Rengo and San Felipe. After GUC.
IDC Error ellipse: s-maj=17.5km s-min=15.4km az=77.0.
GUC VI 13 19 56 07.0–.50 34.94S 71.61W 56–4 4.0L
¶601517774
GUC Error ellipse: s-maj=2.1km s-min=4.9km az=-1.0.
ISC VI 15 05 41 12.9–1.5 28.42S–.04 71.47W–.08 10 39 1-7
SJA VI 15 05 41 08.9–.43 28.33S 71.68W 5 4.1W,3.8L **¶16989391**
GUC VI 15 05 41 15.0–.57 28.44S 71.27W 31–5 3.7L,3.8L
ISC Event type ke.
SJA Error ellipse: s-maj=1.5km s-min=2.3km az=-1.0.
GUC Error ellipse: s-maj=1.4km s-min=6.2km az=-1.0.
ISC VI 15 07 49 44.2–1.7 28.46S–.03 71.52W–.07 1–10 40 1-153
ISCJB VI 15 07 49 47.6–1.3 28.33S–.03 71.57W–.08 18–9 4.3b,3.2s **¶16730546**
NEIC VI 15 07 49 49.0 28.47S 71.25W 36 4.0L,3.2s
GUC VI 15 07 49 49.8–.74 28.47S 71.25W 36–12 4.0L,3.2s
IDC VI 15 07 50 03.9–5.2 27.63S 70.22W 92–38 4.0b,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.6km az=175.7.
NEIC Event type fe. Felt [III] at Freirina and Huasco and [II] at Copiapo and Tierra Amarilla. After GUC.
GUC Error ellipse: s-maj=2.0km s-min=8.1km az=-1.0.
IDC Error ellipse: s-maj=54.6km s-min=38.9km az=26.0.
ISC VI 15 08 44 48.0–.97 29.07S–.03 71.54W–.06 28–7 53 1-153
SJA VI 15 08 44 43.5–.34 28.77S 71.70W 10 4.2W,4.1L **¶16730549**
IDC VI 15 08 44 48.9–1.0 29.04S 71.41W 32–5 3.8L,3.7
GUC VI 15 08 44 49.3–.50 29.01S 71.39W 58–13 4.0L,3.7
NEIC VI 15 08 44 49.0 29.01S 71.39W 58 4.0,3.7
ISC Event type fe.
SJA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=46.8km s-min=36.7km az=95.0.
GUC Error ellipse: s-maj=1.4km s-min=11.9km az=-1.0.
NEIC Event type fe. Felt [II] at Coquimbo, La Higuera and La Serena. After GUC.
ISC VI 15 10 29 55.9–.66 30.88S–.04 71.33W–.08 52–5 3.9b 49 1-154
ISCJB VI 15 10 29 55.4–.77 30.83S–.03 71.5W–.10 70–8 3.6b **¶16730557**
NEIC VI 15 10 29 55.0 30.85S 71.29W 43 4.2b
GUC VI 15 10 29 55.9–.70 30.85S 71.30W 43–4 4.3L
IDC VI 15 10 29 55.4–1.0 31.04S 71.18W 53–5 4.1,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=4.8km az=178.6.
NEIC Event type fe. Felt [III] at Coquimbo, Illapel, La Serena, Salamanca and Vicuna and [II] at Canela and Paiguano. After GUC.
GUC Error ellipse: s-maj=1.5km s-min=12.2km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=26.6km az=160.0.
GUC VI 15 15 19 27.5–.67 34.82S 71.93W 46–6 3.5L
¶601517788
GUC Error ellipse: s-maj=1.9km s-min=7.8km az=-1.0.
ISC VI 15 23 15 57.2–1.9 34.49S–.10 72.5W–.20 49–18 26 0-6
GUC VI 15 23 15 57.6–.66 34.69S 72.00W 65–9 3.7L **¶16989409**
ISC Event type ke.
GUC Error ellipse: s-maj=8.7km s-min=15.3km az=-1.0.
ISC VI 16 08 50 54.1–1.8 34.25S–.04 72.3W–.10 10 28 0-7
GUC VI 16 08 50 53.9–.43 34.26S 72.40W 36–2 3.1L **¶16989413**
ISC Event type ke.
GUC Error ellipse: s-maj=1.9km s-min=4.1km az=-1.0.
IDC VI 16 10 38 09.9–1.8 37.40S 73.25W 0 3.7,3.7L
¶17206309
IDC Error ellipse: s-maj=52.5km s-min=19.8km az=68.0.
ISC VI 17 01 52 12.5–1.9 30.78S–.05 71.52W–.07 1–13 4.2b 43 1-151
IDC VI 17 01 52 12.2–1.2 30.84S 71.49W 0 4.1b,4.0 **¶16713631**
GUC VI 17 01 52 15.7–.68 30.62S 71.50W 37–6 4.0L,4.0
NEIC VI 17 01 52 15.0 30.62S 71.50W 37 4.0b,4.0L
ISC Event type fe.
IDC Error ellipse: s-maj=31.1km s-min=24.1km az=122.0.
GUC Error ellipse: s-maj=1.4km s-min=7.6km az=-1.0.
NEIC Event type fe. Felt [II] at Coquimbo, La Higuera, Ovalle and Vicuna. After GUC.
ISC VI 17 11 28 46.8–1.9 34.08S–.07 72.33W–.09 15–10 29 0-157
ISCJB VI 17 11 28 46.5–1.3 34.18S–.08 72.42W–.09 28–10 3.9b **¶16730792**
GUC VI 17 11 28 46.7–.56 34.16S 72.33W 34–3 4.1L
IDC VI 17 11 28 49.7–7.4 34.11S 72.20W 34–53 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=10.0km az=143.6.
GUC Error ellipse: s-maj=3.8km s-min=4.7km az=-1.0.
IDC Error ellipse: s-maj=118.8km s-min=37.6km az=92.0.
GUC VI 17 11 31 02.9–.44 35.37S 72.67W 15–6 3.8L
¶601517806
GUC Error ellipse: s-maj=1.2km s-min=3.5km az=-1.0.
ISC VI 17 20 47 26.4–1.3 34.81S–.05 71.82W–.07 25–14 22 0-4
ISCJB VI 17 20 47 25.9–.96 34.84S–.05 71.88W–.09 32–7 **¶16989440**
GUC VI 17 20 47 25.0–.58 34.82S 71.84W 49–2 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.8km az=157.5.
GUC Error ellipse: s-maj=1.8km s-min=3.5km az=-1.0.
ISC VI 18 01 22 15.8–1.2 34.81S–.04 71.81W–.07 32–10 24 0-4
GUC VI 18 01 22 13.6–.45 34.79S 71.74W 52–2 3.5L **¶16989443**
ISCJB VI 18 01 22 15.6–1.2 34.81S–.05 71.79W–.09 40–24 3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 18 13 19 48.3–3.9 34.71S–.06 72.3W–.10 30–17 33 1-6
GUC VI 18 13 19 49.2–.60 34.78S 71.59W 36–3 3.7L **¶16989452**
ISC Event type ke.
GUC Error ellipse: s-maj=4.0km s-min=12.8km az=-1.0.
ISC VI 18 15 21 57.3–3.5 34.23S–.06 72.2W–.10 7–19 21 1-5
GUC VI 18 15 21 58.0–.71 34.19S 72.27W 35–4 3.6L **¶16989454**
ISC Event type ke.
GUC Error ellipse: s-maj=2.8km s-min=5.8km az=-1.0.
ISC VI 19 03 46 43.0–1.6 34.71S–.05 71.81W–.06 11–14 28 0-7
GUC VI 19 03 46 43.6–.38 34.73S 71.83W 41–1 3.6L **¶16989463**
ISC Event type ke.
GUC Error ellipse: s-maj=1.2km s-min=2.5km az=-1.0.
ISC VI 19 04 48 26.2–2.9 34.32S–.04 72.5W–.10 10–14 30 0-6
GUC VI 19 04 48 30.2–.43 34.30S 72.32W 23–3 3.3L **¶16989464**
ISC Event type ke.
GUC Error ellipse: s-maj=1.3km s-min=3.4km az=-1.0.
ISC VI 19 11 01 27.5–2.2 34.06S–.04 72.4W–.10 32–14 32 0-6
GUC VI 19 11 01 28.2–.38 34.09S 72.28W 30–2 3.3L **¶16989471**
ISC Event type ke.
GUC Error ellipse: s-maj=0.9km s-min=2.5km az=-1.0.
ISC VI 19 11 58 27.6–3.2 32.55S–.06 71.5W–.20 18–11 18 1-5
GUC VI 19 11 58 28.4–.30 32.58S 71.43W 33–1 2.5L **¶16989472**
SJA VI 19 11 58 30.0–.41 32.58S 71.28W 2–5 2.7W,2.5L
ISC Event type ke.
GUC Error ellipse: s-maj=3.4km s-min=4.1km az=-1.0.
SJA Error ellipse: s-maj=3.4km s-min=8.5km az=-1.0.
ISC VI 21 19 43 03.7–2.0 34.28S–.04 72.42W–.08 5–12 4.7b 51 0-166
IDC VI 21 19 43 03.0–1.3 34.37S 72.27W 0 3.9,3.8 **¶16731161**
ISCJB VI 21 19 43 05.6–1.1 34.34S–.03 72.39W–.07 23–7 4.6b,3.0s
NEIC VI 21 19 43 07.0 34.31S 72.25W 25 4.0L,3.0s
GUC VI 21 19 43 07.2–.65 34.31S 72.25W 25–4 4.0L,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=70.8km s-min=28.8km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.3km az=19.1.
NEIC Event type fe. Felt [III] at Pichilemu. After GUC.
GUC Error ellipse: s-maj=1.7km s-min=4.6km az=-1.0.
ISC VI 21 20 20 34.5–1.6 34.24S–.03 72.26W–.07 18–8 4.3b,3.2s 52 0-157
ISCJB VI 21 20 20 33.4–1.1 34.32S–.04 72.46W–.06 22–8 4.2b,3.3s **¶16731164**
GUC VI 21 20 20 35.1–.58 34.30S 72.31W 28–5 4.2L,3.3s
NEIC VI 21 20 20 38.9–1.2 34.18S 72.21W 50–10 4.4b,3.3s
IDC VI 21 20 20 41.6–3.8 34.23S 71.99W 74–34 4.0L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=28.7.
GUC Error ellipse: s-maj=1.5km s-min=3.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=17.6km s-min=7.8km az=85.0. Felt [IV] at Pichilemu; [III] at Perallillo and Santa Cruz; [II] at Duao, Iloca, Navidad, Paredones and Rancagua.
IDC Error ellipse: s-maj=46.9km s-min=26.1km az=99.0.
ISC VI 22 07 06 27.9–2.2 34.52S–.06 72.1W–.10 12–12 24 1-4
ISCJB VI 22 07 06 29.9–1.8 34.52S–.04 71.9W–.10 12–13 **¶16989515**
GUC VI 22 07 06 30.2–.65 34.53S 71.91W 5–4 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=5.0km az=15.7.
GUC Error ellipse: s-maj=2.1km s-min=5.8km az=-1.0.
ISC VI 22 08 41 25.8–.73 30.82S–.06 71.57W–.09 53 4.1b 32 2-151
ISCJB VI 22 08 41 24.3–.71 30.82S–.04 71.72W–.09 53 4.1b **¶16731218**
NEIC VI 22 08 41 25.3–1.1 30.82S 71.37W 44–11 4.2b
IDC VI 22 08 41 25.8–1.0 30.82S 71.34W 48–8 4.1,4.0b
SJA VI 22 08 41 27.7–.68 30.88S 71.18W 23–999 4.3W,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=6.2km az=170.5.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=8.1km az=89.0.
IDC Error ellipse: s-maj=22.9km s-min=17.4km az=91.0.
SJA Error ellipse: s-maj=4.0km s-min=22.5km az=-1.0.
ISC VI 24 14 53 12.6–2.2 36.76S–.06 73.53W–.09 6–11 28 0-72
IDC VI 24 14 53 11.1–2.1 36.83S 73.82W 0 3.7,3.7L **¶16731379**
GUC VI 24 14 53 13.9–.53 36.75S 73.40W 15–2 3.9L,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=77.7km s-min=21.3km az=65.0.
GUC Error ellipse: s-maj=2.3km s-min=4.2km az=-1.0.
ISC VI 25 19 39 31.5–2.7 35.14S–.04 72.91W–.09 12–18 20 1-70
ISCJB VI 25 19 39 31.2–1.5 35.10S–.04 73.0W–.10 17–11 3.4b,2.7s **¶17206937**
GUC VI 25 19 39 31.1–.40 35.11S 72.90W 38–4 3.5L,2.7s
IDC VI 25 19 39 42.1–7.5 35.46S 71.89W 135–115 3.7L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=6.0km az=10.2.
GUC Error ellipse: s-maj=1.4km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=144.4km s-min=34.3km az=117.0.
ISC VI 26 03 38 04.5–1.7 35.13S–.03 72.90W–.07 11–10 4.0b 39 1-156
ISCJB VI 26 03 38 03.6–2.0 35.09S–.03 73.01W–.05 14–13 3.9b,3.1s **¶16731486**
IDC VI 26 03 38 03.2–1.6 35.13S 72.81W 0 4.2,4.1
GUC VI 26 03 38 04.7–.57 35.06S 73.00W 33–4 4.2L,4.1
NEIC VI 26 03 38 05.0–4.9 35.10S 72.79W 11–30 4.2L,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=178.6.
IDC Error ellipse: s-maj=43.5km s-min=28.0km az=77.0.
GUC Error ellipse: s-maj=2.1km s-min=4.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=24.2km s-min=10.1km az=85.0.
IDC VI 26 06 05 31.6–7.9 36.80S 73.80W 0 3.5,3.5L
¶17206962
IDC Error ellipse: s-maj=217.3km s-min=23.5km az=72.0.
IDC VI 26 19 21 25.0–2.0 36.74S 72.97W 0 3.9L,3.7
¶17207019
IDC Error ellipse: s-maj=70.6km s-min=32.0km az=70.0.
IDC VI 26 19 32 52.4–2.2 36.76S 73.84W 0 3.8,3.7L
¶17207020
IDC Error ellipse: s-maj=75.4km s-min=21.6km az=65.0.
ISC VI 26 20 02 09.9–1.1 36.74S–.08 73.85W–.10 35 4.4b,3.6s 19 1-157
GUC VI 26 20 02 03.0–.38 36.70S 74.16W 11–6 3.9L,3.6s **¶17207022**
IDC VI 26 20 02 04.2–1.7 36.77S 73.98W 0 4.1,4.0
ISCJB VI 26 20 02 07.2–.83 36.81S–.08 73.99W–.08 33 4.3b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 11 16 44.7–1.7 34.98S–.05 71.10W–.09 104–12 31 0-7
ISCJB VI 27 11 16 43.9–.72 35.01S–.05 71.0W–.10 107–8 **¶16989619**
GUC VI 27 11 16 45.3–.52 34.99S 71.04W 101–3 3.2L
SJA VI 27 11 16 53.4–.47 34.25S 70.42W 176–5 2.8W,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=5.9km az=24.2.
GUC Error ellipse: s-maj=1.7km s-min=3.9km az=-1.0.
SJA Error ellipse: s-maj=5.2km s-min=6.7km az=-1.0.
ISC VI 28 01 54 40.4–1.1 35.04S–.04 72.81W–.08 44–9 4.6b,3.9s 288 1-177
IDC VI 28 01 54 33.9–.83 35.13S 72.91W 0 4.6,4.5b **¶16702430**
ISCJB VI 28 01 54 36.0–1.2 35.04S–.03 72.95W–.05 24–8 4.6b,3.8s
GUC VI 28 01 54 35.4–.83 35.05S 72.97W 48–8 4.8L,3.8s
BJI VI 28 01 54 36.1 34.90S 72.70W 11 5.3s,5.2b
NEIC VI 28 01 54 39.5–.22 34.95S 72.70W 35 4.8L,4.6b
ISC Event type fe.
IDC Error ellipse: s-maj=29.8km s-min=22.4km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.6km az=1.5.
GUC Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.2km az=79.0. Felt [III] at Colbun and Constitucion and [II] at Cauquenes, Chanco, Longavi, Pelluhue, Pencahue and Talca.
ISC VI 28 04 49 54.1–1.3 35.08S–.05 73.0W–.10 35 25 1-85
ISCJB VI 28 04 49 51.8–.85 35.07S–.05 73.06W–.08 33 3.6b **¶16731669**
GUC VI 28 04 49 51.4–.54 35.05S 73.03W 30–7 3.6L
IDC VI 28 04 49 53.6–4.6 35.17S 71.57W 0 3.6,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.5km az=6.2.
GUC Error ellipse: s-maj=2.7km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=157.1km s-min=20.9km az=91.0.
ISC VI 28 08 22 18.8–1.9 35.09S–.05 73.0W–.10 35 22 1-7
GUC VI 28 08 22 17.5–.46 35.05S 73.04W 31–8 3.5L **¶601517910**
ISC Event type ke.
GUC Error ellipse: s-maj=2.2km s-min=4.0km az=-1.0.
ISC VI 28 12 27 22.5–1.2 35.18S–.04 73.00W–.10 35 26 1-70
IDC VI 28 12 27 17.9–1.8 35.13S 72.83W 0 3.8,3.6 **¶16731702**
ISCJB VI 28 12 27 21.0–.88 35.17S–.04 73.12W–.09 33 3.5b,3.6
GUC VI 28 12 27 20.7–.58 35.14S 72.97W 24–11 3.7L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=58.1km s-min=21.4km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=4.8km az=9.9.
GUC Error ellipse: s-maj=2.7km s-min=5.5km az=-1.0.
ISC VI 29 07 17 11.2–3.2 34.03S–.04 72.4W–.10 28–22 37 0-6
GUC VI 29 07 17 09.3–.62 33.96S 72.36W 37–4 3.3L **¶16989687**
ISC Event type ke.
GUC Error ellipse: s-maj=1.9km s-min=4.8km az=-1.0.

ISC VI 29 08 22 13.4–.49 32.27S–.03 71.51W–.05 47–4 5.0b,3.9s 715 1-178
MOS VI 29 08 22 10.9–1.0 32.18S 71.28W 33 5.2b,3.9s **¶16685772**
SJA VI 29 08 22 13.2–1.4 32.19S 71.31W 10–13 4.7L,4.5W
ISCJB VI 29 08 22 13.4–.41 32.18S–.03 71.28W–.06 60–4 5.0b,4.5W
GUC VI 29 08 22 13.4–.73 32.24S 71.34W 43–2 4.8L,4.5W
IDC VI 29 08 22 13.6–.50 32.20S 71.29W 50–3 4.7,4.5b
NEIC VI 29 08 22 13.0 32.24S 71.34W 43 5.0b,4.5b
BJI VI 29 08 22 14.3 32.20S 71.20W 50 5.1s,5.0
ISC Event type fe.
MOS Error ellipse: s-maj=18.0km s-min=7.8km az=103.0.
SJA Error ellipse: s-maj=7.4km s-min=21.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.3km az=171.7.
GUC Error ellipse: s-maj=2.2km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=13.5km az=81.0.
NEIC Event type fe. Felt [IV] at Los Vilos and Zapallar; [III] at Canela, Colina, Illapel, Lampa, Quillota, Quilpue, Salamanca, San Bernardo, Santiago, Talagante, Tiltil, Valparaiso, Villa Alemana and Vina del Mar; [II] at Puente Alto, Rancagua and San Jose de Maipo. Also felt at La Ligua, Limache and San Antonio. After GUC.
ISC VI 29 09 57 32.4–1.9 34.00S–.04 72.45W–.07 8–11 4.1b 51 1-157
IDC VI 29 09 57 31.4–.91 33.96S 72.37W 0 3.9,3.8 **¶16731767**
ISCJB VI 29 09 57 33.5–1.2 33.99S–.03 72.53W–.07 24–8 3.9b,3.8
GUC VI 29 09 57 33.5–.61 33.92S 72.33W 20–9 3.9L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=22.6km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.8km az=4.6.
GUC Error ellipse: s-maj=1.8km s-min=6.1km az=-1.0.
ISC VI 30 04 15 23.8–1.2 34.76S–.04 71.83W–.07 22–10 43 0-8
GUC VI 30 04 15 22.7–.62 34.77S 71.82W 42–2 3.8L **¶16989705**
ISC Event type ke.
GUC Error ellipse: s-maj=1.9km s-min=3.7km az=-1.0.
ISC VI 30 18 45 55.0–3.2 32.70S–.06 71.8W–.10 13–17 20 1-4
SJA VI 30 18 45 53.3–1.1 32.75S 71.90W 20–30 3.2W,3.2 **¶16989724**
GUC VI 30 18 45 56.5–.43 32.57S 71.68W 7–2 2.4L,3.2
ISC Event type ke.
SJA Error ellipse: s-maj=25.5km s-min=20.9km az=-1.0.
GUC Error ellipse: s-maj=5.2km s-min=4.5km az=-1.0.
ISC VI 30 19 19 32.4–2.7 34.03S–.07 72.7W–.10 17 28 1-6
GUC VI 30 19 19 34.8–.65 33.95S 72.55W 39–11 3.3L **¶16989725**
ISC Event type ke.
GUC Error ellipse: s-maj=9.2km s-min=7.1km az=-1.0.

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ISC I 02 11 21 10.3–1.6 28.32S–.04 70.38W–.07 81–14 27 0-4
ISCJB I 02 11 21 09.5–.86 28.32S–.03 70.38W–.07 88–11 **¶601515997**
GUC I 02 11 21 09.5–.50 28.39S 70.27W 82–5 3.0L
SJA I 02 11 21 10.0–1.2 28.39S 70.41W 83–10 3.1L,3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.7km az=3.4.
GUC Error ellipse: s-maj=1.5km s-min=12.1km az=-1.0.
SJA Error ellipse: s-maj=9.6km s-min=11.3km az=-1.0.
ISC I 02 15 12 39.1–.67 35.18S–.05 71.91W–.06 52–6 4.6b 68 1-153
ISCJB I 02 15 12 38.7–.45 35.17S–.04 71.93W–.07 63–4 4.5b **¶15964332**
SJA I 02 15 12 39.3–.43 35.23S 71.80W 33 4.8W,4.1L
IDC I 02 15 12 39.4–.73 35.11S 71.63W 48–7 4.3,4.2b
NEIC I 02 15 12 39.5–.41 35.05S 71.71W 49 4.2b,4.2b
GUC I 02 15 12 39.3–.39 35.17S 71.91W 43–2 4.7L,4.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.4km az=24.3.
SJA Error ellipse: s-maj=3.8km s-min=16.2km az=-1.0.
IDC Error ellipse: s-maj=24.6km s-min=13.5km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=82.0. Felt [IV] at Curico, Iloco and Molina; [III] at Linares, Lolol, Mostazal, Navidad, Paredones, Pencahue, Pichilemu, Rancagua, San Fernando, Santa Cruz and Talca; [II] at Codegua, Colbun, Empedrado, Puente Negro and Romeral.
GUC Error ellipse: s-maj=2.5km s-min=3.9km az=-1.0.
IDC I 03 02 43 38.3–5.9 37.82S 72.11W 0 4.0L,3.8
¶17189286
IDC Error ellipse: s-maj=177.6km s-min=31.9km az=82.0.
IDC I 04 06 05 28.8–3.7 36.39S 71.42W 0 3.6,3.5
¶17189393
IDC Error ellipse: s-maj=127.3km s-min=19.6km az=90.0.
ISC I 08 04 51 45.7–2.1 28.37S–.05 70.42W–.08 111–18 23 0-6
ISCJB I 08 04 51 46.6–1.2 28.40S–.04 70.31W–.08 97–13 **¶601516075**
SJA I 08 04 51 46.3–.59 28.47S 70.19W 163–7 3.2L,3.1W
GUC I 08 04 51 47.5–1.1 28.41S 70.45W 85–12 2.5L,3.1W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.5km az=2.9.
SJA Error ellipse: s-maj=3.2km s-min=5.0km az=-1.0.
GUC Error ellipse: s-maj=3.5km s-min=17.3km az=-1.0.
ISC I 08 05 54 57.0–1.2 35.93S–.05 71.82W–.07 70–16 42 1-20
SJA I 08 05 54 51.7–.83 36.00S 72.11W 33–14 4.0L,3.6W **¶601516077**
ISCJB I 08 05 54 55.0–.54 35.93S–.03 71.84W–.08 94–8 4.0L,3.6W
NEIC I 08 05 54 55.0 35.97S 71.76W 83 4.5,3.6W
GUC I 08 05 54 55.9–.88 35.97S 71.76W 83–7 4.5L,3.6W
ISC Event type fe.
SJA Error ellipse: s-maj=4.2km s-min=24.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=4.8km az=18.7.
NEIC Event type fe. Felt [IV] at Cauquenes and Longavi; [III] at Cobquecura and Talca; [II] at Parral, Penco, San Fernando and Tome. After GUC.
GUC Error ellipse: s-maj=3.5km s-min=6.0km az=-1.0.
ISC I 13 04 07 02.9–.84 36.07S–.05 71.53W–.06 103–8 3.9b 35 1-154
IDC I 13 04 06 47.8–2.2 35.42S 72.42W 0 3.8,3.8b **¶16002291**
SJA I 13 04 06 58.6–.79 36.15S 71.56W 248–50 4.0L,3.2W
ISCJB I 13 04 07 02.0–.45 36.12S–.04 71.42W–.07 105–7 3.7b,3.2W
GUC I 13 04 07 03.2–.46 36.13S 71.50W 109–4 4.1L,3.2W
NEIC I 13 04 07 03.0 36.13S 71.50W 109 4.1,3.2W
ISC Event type fe.
IDC Error ellipse: s-maj=79.7km s-min=29.1km az=111.0.
SJA Error ellipse: s-maj=19.8km s-min=40.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=24.8.
GUC Error ellipse: s-maj=2.4km s-min=4.3km az=-1.0.
NEIC Event type fe. Felt [IV] at Retiro; [III] at Parral, Pencahue and San Javier; [II] at Cauquenes and Linares. After GUC.
ISC I 19 14 43 39.2–1.0 35.88S–.06 71.53W–.10 92–10 23 1-84
IDC I 19 14 43 29.1–1.5 35.46S 71.27W 0 4.1L,4.0 **¶17190565**
ISCJB I 19 14 43 38.0–.58 35.90S–.05 71.5W–.10 99–7 3.4b,4.0
GUC I 19 14 43 38.3–.68 35.90S 71.55W 107–5 4.3L,4.0
SJA I 19 14 43 52.0–.77 34.97S 70.49W 177–26 3.1L,3.0W
ISC Event type ke.
IDC Error ellipse: s-maj=61.2km s-min=34.8km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=6.1km az=26.3.
GUC Error ellipse: s-maj=3.8km s-min=6.8km az=-1.0.
SJA Error ellipse: s-maj=17.5km s-min=19.8km az=-1.0.
ISC I 20 01 44 46.2–.60 37.08S–.07 72.57W–.07 69 4.2b 44 0-169
IDC I 20 01 44 37.4–.88 37.27S 72.35W 0 4.2,4.1 **¶16020102**
ISCJB I 20 01 44 44.5–.51 37.07S–.04 72.53W–.08 69 4.1b,4.1
NEIC I 20 01 44 45.0 37.11S 72.57W 63 4.1b,4.1
GUC I 20 01 44 45.2–.35 37.11S 72.57W 63–5 4.2L,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=30.9km s-min=17.8km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.7km az=15.3.
NEIC Event type fe. Felt [V] at Los Angeles; [IV] at Curanilahue, Mulchen, Nacimiento, Negrete and Santa Barbara; [III] at Angol, Chiguayante, Chillan, Cobquecura, Collipulli, Concepcion, Curacautin, Ercilla, La Laja, Lebu, Penco and San Rosendo; [II] at Renaico and Tolten. After GUC.
GUC Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
ISC I 23 21 02 15.2–1.2 28.26S–.04 70.84W–.08 47 22 0-152
SJA I 23 21 02 13.4–.39 28.26S 70.73W 162–27 3.7L,3.3W **¶601516301**
GUC I 23 21 02 13.7–.40 28.31S 70.66W 52–2 3.6L,3.3W
ISCJB I 23 21 02 14.5–.64 28.28S–.03 70.76W–.08 47 3.7b,3.3W
IDC I 23 21 02 19.6–3.6 21.02S 70.35W 0 3.8b,3.5
ISC Event type ke.
SJA Error ellipse: s-maj=7.3km s-min=9.2km az=-1.0.
GUC Error ellipse: s-maj=1.1km s-min=6.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.6km az=179.0.
IDC Error ellipse: s-maj=132.3km s-min=64.2km az=103.0.
GUC I 24 06 11 01.3–.92 38.42S 72.49W 91–188 3.7L
¶601516306
GUC Error ellipse: s-maj=5.2km s-min=216.6km az=-1.0.
ISC I 29 12 41 54.0–1.4 29.04S–.04 70.70W–.06 72–8 27 0-4
ISCJB I 29 12 41 53.2–.69 29.05S–.03 70.67W–.06 77–7 **¶601516379**
SJA I 29 12 41 53.6–.55 29.09S 70.57W 66–3 3.7L
GUC I 29 12 41 53.0–.54 29.07S 70.58W 71–3 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.1km az=4.9.
SJA Error ellipse: s-maj=3.2km s-min=3.1km az=-1.0.
GUC Error ellipse: s-maj=1.3km s-min=6.8km az=-1.0.
ISC II 02 05 30 36.8–1.5 28.55S–.04 70.88W–.08 66–11 19 0-4
ISCJB II 02 05 30 35.8–.85 28.56S–.04 70.88W–.08 73–9 **¶601516429**
SJA II 02 05 30 36.1–.42 28.66S 70.57W 169–10 3.2L
GUC II 02 05 30 36.0–.57 28.59S 70.73W 74–3 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.0km az=5.4.
SJA Error ellipse: s-maj=5.6km s-min=9.9km az=-1.0.
GUC Error ellipse: s-maj=1.6km s-min=8.6km az=-1.0.
IDC II 04 23 27 33.7–4.0 36.91S 71.07W 0 3.6,3.5
¶17191704
IDC Error ellipse: s-maj=161.8km s-min=21.2km az=90.0.
IDC II 06 15 00 45.3–1.8 37.53S 72.98W 0 3.6,3.5
¶17191796
IDC Error ellipse: s-maj=108.3km s-min=20.5km az=61.0.
ISC II 14 12 18 30.1–.45 35.59S–.07 71.9W–.10 35 4.7b,4.6s 160 5-174
IDC II 14 12 18 19.7–.69 35.44S 73.05W 0 4.5,4.5s **¶16026123**
BJI II 14 12 18 25.1 35.07S 72.51W 10 5.4s,5.3b
ISCJB II 14 12 18 28.5–.29 35.64S–.06 71.96W–.09 35 4.7b,4.6s
GCMT II 14 12 18 30.3–.30 35.65S 71.54W 13–1 5.2W,4.6s
NEIC II 14 12 18 30.3–.40 35.62S 72.00W 35 4.8b,4.6s
ISC Event type fe.
IDC Error ellipse: s-maj=26.1km s-min=16.0km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.1km az=148.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c43; s55,c64; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.81±.28 $M_{\theta\theta}$-1.74±.16; $M_{\phi\phi}$4.54±.24; $M_{r\theta}$3.79±.87; $M_{\theta\phi}$-0.16±.16; $M_{\phi r}$-6.42±1.25; Best double couple: NP1:ϕ_s331.00000° ,δ79.00000°,λ-108.00000°. NP2:ϕ_s211.00000°,δ21.00000°,λ-33.00000°. Principal axes: T 8.6890,Plg32.0000°,Azm76.0000°; N -0.5150,Plg17.0000°,Azm335.0000° ; P -8.1840,Plg53.0000°,Azm221.0000° $M_0$8.43700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=13.2km s-min=9.4km az=65.0. Felt [IV] at Cobquecura; [III] at Cauquenes, Chillan, Concepcion, Constitucion, Empedrado, Hualpen, Quirihue, San Pedro de la Paz and Talcahuano; [II] at Curico, Linares and Talca. Also felt at Santiago.
ISC II 16 00 57 17.6–2.0 29.64S–.04 70.97W–.09 76–15 22 0-4
ISCJB II 16 00 57 16.6–1.2 29.64S–.04 70.99W–.08 84–9 **¶602035991**
SJA II 16 00 57 17.1–1.2 29.81S 70.67W 10 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.8km az=177.3.
SJA Error ellipse: s-maj=2.7km s-min=5.9km az=-1.0.
IDC II 23 03 32 20.4–1.5 36.31S 71.68W 0 3.9,3.8
¶17192733
IDC Error ellipse: s-maj=41.2km s-min=28.2km az=81.0.
ISC III 02 01 05 50.8–2.0 35.18S–.07 71.83W–.09 6–16 16 1-5
ISCJB III 02 01 05 52.0–2.2 35.06S–.05 72.04W–.08 14–16 **¶601516746**
GUC III 02 01 05 53.1–.46 35.02S 72.04W 20–5 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=6.5km az=34.7.
GUC Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.
GUC III 11 09 03 03.7–.31 28.46S 70.71W 47–999 3.6L
¶601516832
GUC Error ellipse: s-maj=1.2km s-min=7.2km az=-1.0.
ISC III 12 01 52 17.7–1.8 28.69S–.04 70.57W–.07 94–12 23 0-5
ISCJB III 12 01 52 16.7–1.1 28.68S–.04 70.56W–.07 103–9 **¶16603457**
GUC III 12 01 52 17.6–.60 28.70S 70.42W 87–5 3.4L
SJA III 12 01 52 18.0–1.3 28.84S 70.47W 89–12 3.1L,3.0W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.8km az=163.5.
GUC Error ellipse: s-maj=1.8km s-min=14.0km az=-1.0.
SJA Error ellipse: s-maj=17.1km s-min=10.9km az=-1.0.
ISC III 16 11 30 23.7–1.7 28.08S–.04 70.62W–.10 75–16 18 1-4
GUC III 16 11 30 22.9–.53 28.11S 70.42W 80–4 3.1L **¶16630627**
ISCJB III 16 11 30 23.0–1.0 28.08S–.04 70.5W–.10 80–12 3.1L
SJA III 16 11 30 23.0–.55 28.16S 70.62W 87–11 2.9L,2.6W
ISC Event type ke.
GUC Error ellipse: s-maj=1.4km s-min=7.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=6.3km az=6.9.
SJA Error ellipse: s-maj=6.6km s-min=10.5km az=-1.0.
ISC III 17 06 22 56.2–.60 38.38S–.05 72.19W–.06 78 4.2b 38 2-159
ISCJB III 17 06 22 55.1–.44 38.35S–.04 72.20W–.08 78 4.4b **¶16339105**
NEIC III 17 06 22 57.5–1.1 38.39S 72.22W 89–8 4.0b
GUC III 17 06 22 58.3–.30 38.35S 72.77W 79–7 4.5L
IDC III 17 06 22 58.2–2.7 38.43S 72.07W 91–23 4.4,4.2
SJA III 17 06 23 02.3–.26 37.73S 72.25W 234–105 4.0L,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.0km az=2.9.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=7.3km az=91.0. Felt [III] at Angol and Renaico.
GUC Error ellipse: s-maj=0.8km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=18.9km az=89.0.
SJA Error ellipse: s-maj=17.6km s-min=39.9km az=-1.0.
SJA III 17 23 59 47.8–.72 35.42S 71.83W 13–73 3.5L,2.3W
¶16630715
SJA Error ellipse: s-maj=45.2km s-min=38.4km az=-1.0.
ISC III 27 06 11 42.6–1.9 35.04S–.04 72.0W–.10 24–16 21 0-5
ISCJB III 27 06 11 41.0–2.0 34.95S–.04 72.11W–.09 14–14 **¶16631015**
GUC III 27 06 11 41.4–.51 34.97S 71.93W 47–6 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.9km az=3.2.
GUC Error ellipse: s-maj=2.6km s-min=6.4km az=-1.0.
ISC IV 01 09 11 40.8–1.4 28.35S–.04 70.92W–.07 65–11 28 0-6
GUC IV 01 09 11 39.7–.36 28.42S 70.46W 73–2 3.9L **¶16647960**
ISCJB IV 01 09 11 40.0–.70 28.35S–.03 70.88W–.07 73–8 3.9L
SJA IV 01 09 11 43.5–.81 28.54S 70.45W 160–16 3.7L,3.3W
ISC Event type ke.
GUC Error ellipse: s-maj=0.8km s-min=4.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.3km az=6.6.
SJA Error ellipse: s-maj=8.8km s-min=15.7km az=-1.0.
GUC IV 05 14 46 12.9–.47 35.93S 71.49W 113–3 4.0L
¶601517037
GUC Error ellipse: s-maj=3.6km s-min=6.5km az=-1.0.
ISC IV 10 04 29 26.9–1.5 28.11S–.04 70.99W–.07 13–9 33 1-152
IDC IV 10 04 29 16.4–5.8 30.61S 71.06W 0 4.0L,3.9 **¶16648461**
SJA IV 10 04 29 25.3–2.8 28.04S 71.04W 210–58 3.7L,3.3W
GUC IV 10 04 29 28.3–.62 28.27S 70.31W 40–6 3.5L,3.3W
ISC Event type ke.
IDC Error ellipse: s-maj=513.2km s-min=62.4km az=173.0.
SJA Error ellipse: s-maj=20.8km s-min=31.4km az=-1.0.
GUC Error ellipse: s-maj=2.8km s-min=10.2km az=-1.0.
GUC IV 17 08 55 56.4–.41 36.08S 71.44W 115–3 3.6L
¶601517158
GUC Error ellipse: s-maj=1.6km s-min=3.4km az=-1.0.
SJA IV 21 01 55 52.2–.82 28.13S 70.98W 5 3.6W,2.4L
¶16649096
SJA Error ellipse: s-maj=4.5km s-min=12.7km az=-1.0.
ISC IV 27 06 56 16.3–.49 40.45S–.05 72.11W–.08 35 4.8b,4.3s 75 1-177

SJA IV 27 06 56 09.2–.49 40.71S 72.53W 39–39 4.4W,3.8L ¶16463270
IDC IV 27 06 56 10.8–.76 40.25S 72.04W 0 5.5L,4.5
ISCJB IV 27 06 56 14.6–.36 40.45S–.04 71.83W–.10 33 4.8b,4.2s
NEIC IV 27 06 56 17.4–1.1 40.36S 71.73W 41–11 4.8b,4.2s
ISC Event type se.
SJA Error ellipse: s-maj=4.1km s-min=7.2km az=-1.0.
IDC Error ellipse: s-maj=23.6km s-min=12.2km az=35.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=5.2km az=7.6.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=8.3km az=88.0.
ISC V 02 17 54 27.7–1.6 28.34S–.04 70.77W–.08 67–12 24 0-4
SJA V 02 17 54 25.4–.61 28.33S 70.56W 170–11 3.0W,3.0L ¶16988294
ISCJB V 02 17 54 26.5–.92 28.35S–.03 70.81W–.08 77–8 3.0W,3.0L
GUC V 02 17 54 26.9–.53 28.38S 70.63W 70–3 2.9L,3.0L
ISC Event type ke.
SJA Error ellipse: s-maj=3.5km s-min=7.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.5km az=177.0.
GUC Error ellipse: s-maj=1.6km s-min=10.2km az=-1.0.
IDC V 05 02 09 41.2–2.6 40.52S 72.16W 0 5.2L,4.1
¶17202808
IDC Error ellipse: s-maj=56.4km s-min=21.1km az=33.0.
ISC V 15 16 14 03.0–.36 28.77S–.04 70.61W–.08 49–3 4.8b,3.8s 368 0-161
ISCJB V 15 16 14 01.7–.38 28.75S–.03 70.46W–.06 53–3 4.8b,3.7s ¶16524506
GUC V 15 16 14 02.6–.50 28.80S 70.78W 50–2 4.6L,3.7s
NEIC V 15 16 14 03.0–.15 28.75S 70.58W 47 4.8b,3.7s
IDC V 15 16 14 03.0–.44 28.80S 70.69W 47–3 4.4,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.5km az=177.3.
GUC Error ellipse: s-maj=1.2km s-min=9.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=3.7km az=78.0. Felt [IV] at Alto del Carmen; [III] at Copiapo, Freirina, Huasco, La Higuera, Tierra Amarilla, Vallenar and Vicuna; [II] at Caldera, Coquimbo, La Serena and Los Loros.
IDC Error ellipse: s-maj=16.7km s-min=13.0km az=84.0.
ISC V 17 14 31 48.9–.76 40.53S–.07 72.22W–.07 10 4.0b 33 1-170
SJA V 17 14 31 45.3–.79 41.01S 72.05W 156–55 4.7W,3.5L ¶16527337
IDC V 17 14 31 47.2–1.4 40.70S 72.27W 0 4.6L,4.2
ISCJB V 17 14 31 48.3–.61 40.43S–.05 72.15W–.09 10 4.0b,2.7s
GUC V 17 14 31 49.1–.46 40.35S 71.58W 138–6 4.6L,2.7s
NEIC V 17 14 31 54.7–.95 40.42S 71.80W 45–8 4.6,4.2b
ISC Event type fe.
SJA Error ellipse: s-maj=8.2km s-min=83.0km az=-1.0.
IDC Error ellipse: s-maj=36.8km s-min=14.8km az=13.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.5km az=163.9.
GUC Error ellipse: s-maj=2.8km s-min=8.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.0km s-min=7.8km az=86.0. Felt [III] at Poblacion Lago Ranco, Puyehue and Rio Bueno.
GUC V 19 03 31 29.7–.31 37.86S 72.44W 78–4 3.9L
¶601517448
GUC Error ellipse: s-maj=1.0km s-min=3.3km az=-1.0.
ISC V 24 00 41 30.7–.90 28.33S–.04 70.67W–.06 69–7 40 0-160
SJA V 24 00 41 27.9–.85 28.27S 70.79W 72–4 4.2L,3.5W ¶16710763
IDC V 24 00 41 28.6–12 28.52S 70.27W 44–79 3.6,3.6
ISCJB V 24 00 41 30.2–.57 28.31S–.03 70.59W–.06 72–6 3.6b,3.6
GUC V 24 00 41 31.4–.46 28.41S 70.59W 63–6 4.1L,3.6
ISC Event type ke.
SJA Error ellipse: s-maj=2.7km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=141.9km s-min=40.8km az=37.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.7km az=4.1.
GUC Error ellipse: s-maj=2.9km s-min=19.5km az=-1.0.
GUC V 27 07 15 08.1–.44 40.57S 72.17W 21–15 3.5L
¶601517522
GUC Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC V 27 22 47 07.3–2.1 28.32S–.05 70.31W–.08 107–18 18 0-4
ISCJB V 27 22 47 07.7–1.3 28.34S–.04 70.24W–.10 101–13 ¶16989025
SJA V 27 22 47 07.7–.57 28.40S 70.03W 164–8 3.1W,2.9L
GUC V 27 22 47 07.3–.86 28.40S 70.01W 85–23 2.8L,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=7.2km az=179.7.
SJA Error ellipse: s-maj=3.9km s-min=6.2km az=-1.0.
GUC Error ellipse: s-maj=4.3km s-min=28.5km az=-1.0.
ISC V 30 06 52 52.5–1.5 35.61S–.08 71.4W–.30 150 11 0-120
IDC V 30 06 52 34.1–2.3 34.52S 68.21W 261–28 3.5,2.9 ¶603773472
ISCJB V 30 06 52 52.1–.90 35.59S–.08 71.4W–.30 150 3.5,2.9
GUC V 30 06 52 53.6–.60 35.58S 71.28W 140–7 2.9L,2.9
ISC Event type ke.
IDC Error ellipse: s-maj=69.8km s-min=22.9km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=35.6km s-min=8.5km az=12.3.
GUC Error ellipse: s-maj=9.4km s-min=28.7km az=-1.0.
SJA V 30 19 36 07.7–8.7 40.94S 72.62W 46–999 3.5W,3.2L
¶16989091
SJA Error ellipse: s-maj=69.4km s-min=420.0km az=-1.0.
ISC VI 01 15 49 53.4–1.5 36.31S–.09 71.03W–.08 149 22 1-8
SJA VI 01 15 49 51.0–.69 36.38S 71.22W 166–31 3.9W,3.9L ¶16989137
ISCJB VI 01 15 49 53.0–.73 36.30S–.07 71.05W–.07 149 3.9W,3.9L
GUC VI 01 15 49 57.0–.49 36.37S 71.36W 150–5 3.9L,3.9L
ISC Event type ke.
SJA Error ellipse: s-maj=9.8km s-min=15.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.4km az=141.4.
GUC Error ellipse: s-maj=3.1km s-min=6.7km az=-1.0.
IDC VI 04 00 07 21.1–2.6 37.81S 72.13W 0 3.7,3.6
¶17205138
IDC Error ellipse: s-maj=60.2km s-min=51.1km az=29.0.
GUC VI 04 07 21 58.6–.36 40.35S 72.21W 3–2 3.9L
¶601517667
GUC Error ellipse: s-maj=4.2km s-min=2.3km az=-1.0.
GUC VI 04 07 41 53.4–.37 40.52S 72.10W 16–4 4.1L
¶601517668
GUC Error ellipse: s-maj=2.1km s-min=2.0km az=-1.0.
GUC VI 04 07 50 51.5–.51 40.52S 72.10W 17–5 3.5L
¶601517669
GUC Error ellipse: s-maj=2.8km s-min=2.8km az=-1.0.
GUC VI 04 08 18 41.5–.33 40.48S 72.09W 14–3 3.6L
¶601517670
GUC Error ellipse: s-maj=1.6km s-min=1.5km az=-1.0.
ISC VI 04 10 19 09.5–1.0 40.3S–.20 72.1W–.10 35 3.8b 19 1-157
GUC VI 04 10 19 03.9–.46 40.40S 72.09W 3–2 3.9L ¶16725941
NEIC VI 04 10 19 03.0 40.40S 72.09W 3 3.9L
IDC VI 04 10 19 05.0–1.3 40.25S 71.99W 0 5.1L,4.2
ISCJB VI 04 10 19 07.8–.93 40.3S–.10 72.1W–.10 33 3.9b,4.2
ISC Event type fe.
NEIC Event type fe. Felt [III] at Lago Ranco. After GUC.
ISCJB Event type fe.
ISC VI 04 10 46 02.5–1.5 40.4S–.30 72.1W–.10 35 3.9b 10 1-86
GUC VI 04 10 45 58.6–.40 40.46S 72.11W 19–3 4.2L ¶16725943
NEIC VI 04 10 45 58.0 40.46S 72.11W 19 4.3L
IDC VI 04 10 45 59.6–1.3 40.10S 71.84W 0 4.0,3.9
ISCJB VI 04 10 46 02.2–.69 40.2S–.10 71.98W–.09 33 3.7b,3.9
ISC Event type fe.
NEIC Event type fe. Felt [II] at Lago Ranco. After GUC.
ISCJB Event type fe.
GUC VI 04 10 48 24.9–.36 40.45S 72.04W 11–2 3.7L
¶601517671
GUC Error ellipse: s-maj=1.5km s-min=1.5km az=-1.0.
ISC VI 04 11 48 24.5–1.9 40.5S–.30 72.1W–.20 35 3.7b 11 1-87
IDC VI 04 11 48 19.3–2.4 40.57S 72.27W 0 5.1L,4.1 ¶17205195
GUC VI 04 11 48 20.0–.69 40.46S 72.07W 7–11 3.9L,4.1
ISCJB VI 04 11 48 23.1–1.4 40.5S–.20 72.2W–.10 33 4.1s,3.7b
ISC Event type ke.
ISCJB Event type ke.
GUC VI 04 11 58 22.7–.42 40.47S 72.08W 8–3 3.6L
¶601517673
GUC Error ellipse: s-maj=2.0km s-min=1.9km az=-1.0.

ISC VI 04 12 26 28.9–.54 40.5S–.10 72.03W–.09 35 4.7b 40 1-173
NEIC VI 04 12 26 23.0 40.48S 72.12W 15 4.3L ¶16725944
IDC VI 04 12 26 23.5–.80 40.59S 72.14W 0 5.3L,4.7
GUC VI 04 12 26 23.6–.39 40.48S 72.12W 15–4 4.3L,4.7
ISCJB VI 04 12 26 27.4–.58 40.47S–.10 72.10W–.09 33 4.7b,4.7
ISC Event type fe.
NEIC Event type fe. Felt [III] at Puyehue. After GUC.
ISCJB Event type fe.
GUC VI 04 12 35 06.9–.30 40.50S 72.22W 7–2 3.5L
¶601517676
GUC Error ellipse: s-maj=1.5km s-min=1.6km az=-1.0.
ISC VI 04 12 52 02.5–.93 40.4S–.20 72.0W–.10 35 4.0b 21 1-160
NEIC VI 04 12 51 57.0 40.46S 72.09W 11 4.3L ¶16725946
IDC VI 04 12 51 57.7–1.0 40.34S 72.05W 0 5.2L,4.2
GUC VI 04 12 51 58.1–.50 40.47S 72.09W 13–7 4.3L,4.2
ISCJB VI 04 12 52 01.4–.77 40.3S–.10 72.0W–.10 33 4.1b,3.2s
ISC Event type se.
NEIC Event type se. After GUC.
ISCJB Event type se.
ISC VI 04 12 56 48.8–2.3 40.7S–.30 72.5W–.20 35 3.6b 8 1-87
NEIC VI 04 12 56 43.0 40.54S 72.32W 2 3.6L ¶16725947
IDC VI 04 12 56 44.0–2.7 40.87S 72.35W 0 5.4L,4.0
GUC VI 04 12 56 43.0–.36 40.54S 72.32W 2–1 3.6L,4.0
ISCJB VI 04 12 56 47.1–2.0 40.7S–.20 72.5W–.20 33 3.5b,4.0
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Lago Ranco. After GUC.
ISCJB Event type fe.
ISC VI 04 13 20 55.9–.41 40.36S–.06 72.01W–.06 35 4.6b 117 1-175
IDC VI 04 13 20 50.3–.64 40.47S 72.10W 0 4.6,4.5 ¶16722604
GUC VI 04 13 20 51.7–.41 40.42S 72.07W 13–4 4.4L,4.5
NEIC VI 04 13 20 51.0 40.42S 72.06W 13 4.7b,4.4L
ISCJB VI 04 13 20 55.5–.32 40.29S–.06 71.80W–.07 33 4.5b,4.4L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Puyehue. After GUC.
ISCJB Event type fe.
ISC VI 04 13 40 17.9–2.0 40.4S–.60 72.1W–.30 35 3.6s 12 1-152
GUC VI 04 13 40 14.4–.54 40.48S 72.08W 12–9 3.9L ¶17205213
IDC VI 04 13 40 15.1–1.3 39.66S 71.12W 0 4.2,3.7
ISC Event type ke.
GUC Error ellipse: s-maj=4.4km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=129.5km s-min=12.4km az=70.0.
ISC VI 04 13 59 00.2–.65 40.39S–.10 72.18W–.06 35 4.4b,3.1s 26 1-160
IDC VI 04 13 58 55.9–1.1 40.45S 72.06W 0 5.3L,4.3 ¶16856290
NEIC VI 04 13 58 56.0 40.44S 72.18W 13 4.9b,4.5L
GUC VI 04 13 58 56.7–.49 40.44S 72.18W 13–3 4.5L,4.5L
ISCJB VI 04 13 58 58.7–.59 40.37S–.08 72.02W–.07 33 4.3b,3.2s
ISC Event type se.
NEIC Event type se. After GUC.
ISCJB Event type se.
ISC VI 04 14 13 21.9–.57 40.4S–.10 72.13W–.08 35 4.0b 32 1-160
GUC VI 04 14 13 16.6–.90 40.49S 72.14W 7–19 3.9L ¶16856292
NEIC VI 04 14 13 16.0 40.49S 72.14W 7 4.4b,3.9L
ISCJB VI 04 14 13 20.0–.65 40.39S–.09 72.2W–.10 33 4.1b,3.9L
IDC VI 04 14 13 20.0–4.9 40.38S 71.91W 15–28 5.2L,4.2
ISC Event type se.
GUC Error ellipse: s-maj=9.8km s-min=12.9km az=-1.0.
NEIC Event type se. After GUC.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=8.3km az=34.5.
IDC Error ellipse: s-maj=34.1km s-min=15.4km az=36.0.
ISC VI 04 14 35 16.1–2.1 40.5S–.30 72.0W–.20 10 3.6b 7 1-145
ISCJB VI 04 14 35 14.1–2.2 40.6S–.20 72.1W–.20 10 3.5b ¶17205219
IDC VI 04 14 35 14.8–1.8 40.42S 72.08W 0 5.5L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.4km s-min=16.1km az=36.3.
IDC Error ellipse: s-maj=42.1km s-min=13.5km az=29.0.
ISC VI 04 14 52 08.6–.84 40.6S–.10 72.20W–.07 35 4.0b 16 1-146
IDC VI 04 14 52 04.7–1.9 40.69S 72.13W 0 5.5L,4.2 ¶16856304
ISCJB VI 04 14 52 07.0–.74 40.65S–.09 72.23W–.09 33 4.1b,4.2
NEIC VI 04 14 52 06.0 40.50S 72.12W 19 4.4b,3.9L
GUC VI 04 14 52 06.2–.64 40.50S 72.12W 19–7 3.9L,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=46.0km s-min=14.3km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=6.9km az=33.3.
NEIC Event type se. After GUC.
GUC Error ellipse: s-maj=3.4km s-min=3.8km az=-1.0.
ISC VI 04 14 52 33.8–.95 40.5S–.10 72.2W–.20 35 4.0b 11 1-87
IDC VI 04 14 52 26.0–2.9 40.89S 71.97W 0 5.6L,4.3 ¶17205224
NEIC VI 04 14 52 30.4–.74 40.52S 72.38W 10 4.2b,4.3
ISCJB VI 04 14 52 32.1–.86 40.50S–.09 72.1W–.20 33 4.1b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 04 14 59 57.0–1.8 40.5S–.30 72.1W–.10 35 9 1-146
GUC VI 04 14 59 53.2–.43 40.52S 72.08W 14–4 4.1L ¶17205227
IDC VI 04 14 59 54.0–2.2 40.37S 72.01W 0 5.5L,4.2
ISCJB VI 04 14 59 55.8–1.7 40.5S–.20 72.1W–.10 33 3.4b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 15 05 46.3–.43 40.42S–.07 72.07W–.06 35 4.6b,4.0s 75 1-175
GUC VI 04 15 05 39.6–.69 40.54S 72.16W 7–7 4.7L,4.0s ¶16557041
NEIC VI 04 15 05 39.0 40.54S 72.16W 7 4.7b,4.7L
IDC VI 04 15 05 41.7–.66 40.40S 72.03W 0 5.7L,4.4
ISCJB VI 04 15 05 44.6–.33 40.44S–.05 72.07W–.07 33 4.5b,4.0s
ISC Event type fe.
NEIC Event type fe. Felt [V] at Rio Bueno and [IV] at Lago Ranco. Also felt at Panguipulli. Felt at Bariloche, Argentina. After GUC.
ISCJB Event type fe.
IDC VI 04 15 11 46.7–3.5 40.73S 72.19W 0 5.3L,4.1
¶17205228
IDC Error ellipse: s-maj=67.0km s-min=15.7km az=18.0.
ISC VI 04 15 19 19.5–.51 40.50S–.08 72.10W–.07 10 4.6b,4.0s 65 1-175
GUC VI 04 15 19 14.3–.51 40.61S 72.25W 14–9 4.3L,4.0s ¶16557042
IDC VI 04 15 19 18.1–1.1 40.62S 72.08W 0 5.7L,4.6
ISCJB VI 04 15 19 19.1–.36 40.48S–.05 71.97W–.07 10 4.5b,4.1s
NEIC VI 04 15 19 20.0–.31 40.59S 71.88W 10 4.6b,4.3L
ISC Event type se.
GUC Error ellipse: s-maj=3.7km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=33.8km s-min=12.2km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.3km az=40.9.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.7km az=55.0.
GUC VI 04 15 27 13.9–.46 40.49S 72.12W 12–3 3.7L
¶601517678
GUC Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
ISC VI 04 16 03 48.9–2.2 40.6S–.20 72.2W–.10 35 10 1-75
NEIC VI 04 16 03 44.0 40.55S 72.16W 16 4.7L ¶16856318
GUC VI 04 16 03 44.3–.50 40.55S 72.17W 16–9 4.7L
IDC VI 04 16 03 45.7–3.1 40.62S 72.18W 0 5.4L,4.0
ISCJB VI 04 16 03 47.8–1.8 40.6S–.20 72.2W–.10 33 3.2b,4.0
ISC Event type fe.
NEIC Event type fe. Felt [III] at Rio Bueno. After GUC.
ISCJB Event type fe.
ISC VI 04 16 24 42.1–1.6 40.4S–.20 72.1W–.10 35 3.7b 12 1-147
NEIC VI 04 16 24 38.0 40.48S 72.12W 13 4.7L ¶16856319
GUC VI 04 16 24 38.1–.83 40.48S 72.13W 13–10 4.7L
IDC VI 04 16 24 39.5–4.1 40.51S 72.14W 13–22 5.3L,4.0
ISCJB VI 04 16 24 41.3–1.2 40.2S–.10 72.1W–.10 33 3.6b,4.0
ISC Event type fe.
NEIC Event type fe. Felt [V] at Puyehue, [IV] at Futrono and Lago Ranco, [III] at Puerto Montt and [II] at Los Muermos. After GUC.
ISCJB Event type fe.
ISC VI 04 16 28 46.6–.41 40.61S–.04 72.25W–.04 10 4.7b,4.4s 82 1-175

GUC VI 04 16 28 44.3–.70 40.58S 72.25W 18–3 4.7L,4.4s **¶16557046**
IDC VI 04 16 28 45.7–.83 40.56S 72.07W 0 5.8L,4.6
ISCJB VI 04 16 28 46.0–.26 40.66S–.03 72.08W–.05 10 4.7b,4.4s
GCMT VI 04 16 28 47.9–.30 40.59S 72.22W 21–1 5.0W,4.4s
NEIC VI 04 16 28 47.7–2.5 40.55S 71.90W 10–15 4.8b,4.7L
ISC Event type fe.
GUC Error ellipse: s-maj=1.7km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=26.2km s-min=11.8km az=17.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=14.8.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c34; s78,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.19±.18 $M_{\theta\theta}$-1.95±.14; $M_{\phi\phi}$3.14±.16; $M_{r\theta}$-1.67±.29; $M_{\theta\phi}$2.84±.10; $M_{\phi r}$-0.13±.23; Best double couple: NP1:ϕ_s65.00000°,δ77.00000° ,λ-27.00000°. NP2:ϕ_s162.00000°,δ64.00000°,λ-165.00000°. Principal axes: T 4.5260,Plg8.0000°,Azm116.0000°; N -0.5170,Plg60.0000°,Azm221.0000° ; P -4.0090,Plg28.0000°,Azm21.0000° $M_0$4.26700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=15.2km s-min=8.5km az=83.0. Felt at Osorno, Purranque and Valdivia. Felt [II] at Bariloche, Argentina.
GUC VI 04 17 35 36.3–.47 40.40S 72.10W 9–3 4.0L
¶601517681
GUC Error ellipse: s-maj=2.5km s-min=2.8km az=-1.0.
ISC VI 04 17 54 06.1–.43 40.45S–.06 72.10W–.05 10 4.9b,4.1s 99 1-177
GUC VI 04 17 54 02.0–.49 40.66S 72.26W 14–5 4.8L,4.1s **¶16577391**
ISCJB VI 04 17 54 05.9–.39 40.38S–.06 71.95W–.06 10 4.9b,4.0s
IDC VI 04 17 54 05.7–1.5 40.43S 72.03W 0 5.5L,4.5
NEIC VI 04 17 54 07.5–1.8 40.46S 71.74W 14–10 4.9b,4.8L
BJI VI 04 17 54 08.3 40.30S 71.70W 21 5.2s,5.1b
ISC Event type fe.
GUC Error ellipse: s-maj=2.8km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.9km az=32.3.
IDC Error ellipse: s-maj=41.3km s-min=12.9km az=28.0.
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=6.3km az=80.0. Felt at Bariloche. Also felt at Osorno, Chile.
ISC VI 04 18 26 39.3–.82 40.51S–.09 72.10W–.07 10 3.6b 18 1-75
NEIC VI 04 18 26 38.0 40.52S 72.21W 9 4.5L,4.0b **¶16856329**
IDC VI 04 18 26 38.9–3.2 40.60S 72.20W 0 5.0L,4.3
GUC VI 04 18 26 38.0–.44 40.52S 72.21W 9–3 4.5L,4.3
ISC Event type fe.
NEIC Event type fe. Felt [V] at Puyehue. Associated with eruption at the Complejo Volcanico Puyehue-Cordon Caulle. After GUC.
IDC Error ellipse: s-maj=67.6km s-min=16.0km az=22.0.
GUC Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0.
GUC VI 04 19 33 28.6–.54 40.58S 72.24W 12–6 3.7L
¶601517682
GUC Error ellipse: s-maj=2.9km s-min=3.0km az=-1.0.
GUC VI 04 19 48 03.7–.56 40.41S 72.05W 15–11 3.7L
¶601517683
GUC Error ellipse: s-maj=4.0km s-min=5.4km az=-1.0.
ISC VI 05 10 25 16.7–.23 35.10S–.03 71.94W–.04 44–1 5.5b,4.7s 1381 1-179
NEIC VI 05 10 25 15.0 35.00S 72.19W 32 5.6L,5.5b **¶16557343**
GUC VI 05 10 25 15.6–.32 35.00S 72.19W 32–2 5.6L,5.5b
GCMT VI 05 10 25 15.0–.10 35.01S 72.11W 50–0 5.3W,5.5b
MOS VI 05 10 25 15.0–.95 34.93S 71.81W 33 5.8b,4.9s
BJI VI 05 10 25 15.5 34.31S 71.66W 44 5.4b,5.2s
IDC VI 05 10 25 17.2–.30 35.03S 71.76W 43–2 5.4,5.2
ISCJB VI 05 10 25 17.7–.41 35.05S–.02 71.77W–.04 64–3 5.5b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [VII] at Constitucion; [VI] at Cauquenes, Chanco, Curico, Hualane, Iloca, Linares, Maule and Talca; [V] at Colbun, Longavi, Molina, Parral, Pencahue, Pichilemu, Rio Claro, Romeral, San Clemente, San Fernando, San Javier and Santa Cruz. Felt widely in central Chile from Tiltil and Vina del Mar to Concepcion. After GUC.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s90,c134; s98,c164;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.02 $M_{\theta\theta}$0.05±.02; $M_{\theta\theta}$-1.02±.02; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$-0.17±.02; $M_{\phi r}$-0.69±.02; Best double couple: NP1:ϕ_s172.00000°,δ63.00000°,λ74.00000°. NP2:ϕ_s24.00000° ,δ31.00000°,λ118.00000°. Principal axes: T 1.2630,Plg68.0000°,Azm52.0000° ; N -0.0180,Plg14.0000°,Azm180.0000°; P -1.2420,Plg17.0000°,Azm274.0000° $M_0$1.25200×10^{17}
ISCJB Event type fe.
GUC VI 05 15 17 46.1–.66 40.62S 72.15W 13–5 3.6L
¶601517697
GUC Error ellipse: s-maj=1.4km s-min=3.1km az=-1.0.
ISC VI 07 14 16 06.0–1.2 28.13S–.05 70.8W–.20 50 11 0-152
ISCJB VI 07 14 16 04.9–.69 28.14S–.04 70.7W–.10 50 3.7b **¶601517716**
GUC VI 07 14 16 04.8–.81 28.10S 70.82W 43–5 3.9L
IDC VI 07 14 16 47.8–3.1 22.56S 66.19W 133–55 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=6.1km az=6.7.
GUC Error ellipse: s-maj=3.4km s-min=23.4km az=-1.0.
IDC Error ellipse: s-maj=152.5km s-min=22.9km az=20.0.
GUC VI 09 03 46 17.4–.47 35.74S 71.85W 84–2 3.5L
¶601517725
GUC Error ellipse: s-maj=2.8km s-min=5.0km az=-1.0.
ISC VI 09 23 04 07.9–.49 39.36S–.05 72.43W–.08 115 4.5b 63 1-160
SJA VI 09 23 03 58.5–.50 39.65S 73.10W 114–26 4.1W,3.7L **¶16587352**
ISCJB VI 09 23 04 06.8–.42 39.29S–.04 72.19W–.09 115 4.6b,3.7L
NEIC VI 09 23 04 06.0 39.31S 72.70W 113 4.7b,3.7L
IDC VI 09 23 04 06.8–2.2 39.33S 71.90W 89–19 4.3,4.0
GUC VI 09 23 04 06.6–.41 39.31S 72.70W 113–2 4.6L,4.0
ISC Event type fe.
SJA Error ellipse: s-maj=3.3km s-min=24.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.1km az=170.8.
NEIC Event type fe. Felt [IV] at Villarrica, [III] at Queule and Tolten and [II] at Gorbea and Valdivia. After GUC.
IDC Error ellipse: s-maj=33.5km s-min=18.6km az=72.0.
GUC Error ellipse: s-maj=2.0km s-min=6.5km az=-1.0.
GUC VI 10 15 41 07.0–.41 35.55S 71.48W 100–2 3.6L
¶601517736
GUC Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
GUC VI 16 00 16 09.6–.81 40.56S 72.07W 8–7 3.8L
¶601517792
GUC Error ellipse: s-maj=4.2km s-min=3.4km az=-1.0.
ISC VI 19 10 39 12.2–1.6 29.34S–.04 71.0W–.10 35 15 0-6
GUC VI 19 10 39 09.7–.38 29.37S 71.00W 64–5 3.2L **¶16989470**
SJA VI 19 10 39 28.2–.58 30.37S 69.43W 140–5 3.1W,3.0L
ISC Event type ke.
GUC Error ellipse: s-maj=1.3km s-min=16.3km az=-1.0.
SJA Error ellipse: s-maj=1.9km s-min=5.1km az=-1.0.
GUC VI 29 07 43 42.3–.38 35.32S 71.98W 50–1 3.5L
¶601517921
GUC Error ellipse: s-maj=1.0km s-min=2.8km az=-1.0.

(137) San Juan Province.
SJA I 01 20 17 06.3–1.0 31.69S 69.45W 105–6 3.8W,3.0L
¶601890935
SJA Error ellipse: s-maj=2.8km s-min=4.9km az=-1.0.
SJA I 08 03 56 44.3–.32 31.66S 69.45W 103–2 6.7L,4.8W
¶601890989
SJA Error ellipse: s-maj=1.4km s-min=2.5km az=-1.0.
SJA I 08 10 22 04.6–.58 31.51S 68.97W 103–4 5.4L,4.5W
¶601890991
SJA Error ellipse: s-maj=5.7km s-min=7.2km az=-1.0.
SJA I 08 16 18 02.9–.83 31.34S 69.28W 108–4 3.6W,2.0L
¶601890995
SJA Error ellipse: s-maj=3.1km s-min=3.7km az=-1.0.
SJA I 11 07 29 42.4–.47 31.39S 68.65W 98–4 2.8
¶601891055
SJA Error ellipse: s-maj=4.0km s-min=4.4km az=-1.0.
ISC I 11 22 48 30.8–1.4 31.31S–.04 69.18W–.04 116–9 35 0-4
ISCJB I 11 22 48 30.6–.68 31.30S–.03 69.18W–.04 116–7 **¶601891063**
SJA I 11 22 48 30.2–.89 31.36S 69.15W 113–3 3.1W,3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.2km az=42.7.
SJA Error ellipse: s-maj=2.3km s-min=2.8km az=-1.0.
ISC I 12 01 36 53.0–1.4 31.30S–.04 69.03W–.04 109–10 30 0-4
ISCJB I 12 01 36 52.3–.69 31.29S–.03 69.02W–.04 114–7 **¶601516147**
GUC I 12 01 36 52.4–.37 31.29S 69.30W 145–12 3.3L
SJA I 12 01 36 52.2–.97 31.32S 69.01W 108–5 3.2W,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=33.5.
GUC Error ellipse: s-maj=1.0km s-min=9.2km az=-1.0.
SJA Error ellipse: s-maj=5.2km s-min=5.4km az=-1.0.
SJA I 12 17 21 56.6–.88 31.36S 68.58W 104–6 3.6W,2.8L
¶601891078
SJA Error ellipse: s-maj=1.9km s-min=2.9km az=-1.0.
SJA I 13 10 39 03.4–.92 31.28S 67.55W 106–4 3.6W,3.2L
¶601891083
SJA Error ellipse: s-maj=2.9km s-min=3.6km az=-1.0.
ISC I 14 12 31 57.8–1.5 31.82S–.04 69.82W–.04 114–12 38 0-5
ISCJB I 14 12 31 57.0–.70 31.82S–.03 69.82W–.04 119–7 **¶601516178**
SJA I 14 12 31 56.7–1.2 31.85S 69.80W 116–6 3.6W,3.2L
GUC I 14 12 31 57.9–.48 31.83S 70.21W 132–7 3.5L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=41.1.
SJA Error ellipse: s-maj=4.8km s-min=7.4km az=-1.0.
GUC Error ellipse: s-maj=1.3km s-min=11.6km az=-1.0.
GUC I 17 01 57 48.2–.60 31.80S 69.84W 158–25 3.5L
¶601516207
GUC Error ellipse: s-maj=9.0km s-min=52.9km az=-1.0.
ISC I 20 06 04 21.4–1.6 31.7S–.10 69.8W–.10 137 17 0-3
ISCJB I 20 06 04 21.2–1.3 31.7S–.10 69.9W–.20 137 **¶601516250**
GUC I 20 06 04 24.6–.55 31.73S 70.35W 115–12 3.0L
SJA I 20 06 04 24.2–.45 31.77S 69.73W 102–3 2.8L,2.7W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.8km s-min=6.1km az=39.6.
GUC Error ellipse: s-maj=6.8km s-min=14.7km az=-1.0.
SJA Error ellipse: s-maj=3.5km s-min=10.5km az=-1.0.
ISC I 26 09 21 37.1–2.0 31.49S–.04 69.42W–.05 144–22 26 1-4
SJA I 26 09 21 36.8–.98 31.46S 69.47W 132–12 3.0W,3.0L **¶601516333**
ISCJB I 26 09 21 37.6–.91 31.47S–.03 69.41W–.05 130–12 3.0W,3.0L
GUC I 26 09 21 39.4–.70 31.49S 70.00W 165–15 3.2L,3.0L
ISC Event type ke.
SJA Error ellipse: s-maj=5.1km s-min=5.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.3km az=10.7.
GUC Error ellipse: s-maj=1.6km s-min=26.7km az=-1.0.
ISC I 29 07 24 49.9–.40 31.79S–.04 67.98W–.04 10 4.4b 72 0-174
IDC I 29 07 24 48.1–.68 31.88S 67.88W 0 4.4,4.3 **¶15979161**
ISCJB I 29 07 24 49.1–.33 31.80S–.04 67.93W–.04 10 4.4b,4.3
SJA I 29 07 24 49.0–.33 31.80S 67.98W 10–3 4.2W,4.2L
NEIC I 29 07 24 54.6–.74 31.78S 67.74W 38–6 4.5b,4.4
BJI I 29 07 24 55.9 31.70S 67.70W 31 5.2s,5.0
ISC Event type fe.
IDC Error ellipse: s-maj=24.6km s-min=19.4km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=16.2.
SJA Error ellipse: s-maj=1.0km s-min=1.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.3km az=73.0. Felt [II] at San Juan.
ISC I 30 09 00 55.6–1.3 30.44S–.03 68.77W–.03 7–11 41 1-5
ISCJB I 30 09 00 55.9–.90 30.39S–.02 68.79W–.03 1–6 **¶601516396**
SJA I 30 09 00 56.4–1.1 30.43S 68.78W 22–4 3.7W,3.5L
GUC I 30 09 00 56.7–.65 30.45S 68.76W 20–6 3.9L,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=168.1.
SJA Error ellipse: s-maj=2.2km s-min=4.2km az=-1.0.
GUC Error ellipse: s-maj=8.7km s-min=5.9km az=-1.0.
ISC II 10 06 03 12.9–.78 31.02S–.06 67.41W–.07 109–7 31 0-152
ISCJB II 10 06 03 12.1–.60 31.02S–.06 67.39W–.08 115–6 3.4b **¶17191994**
SJA II 10 06 03 12.0–.83 30.98S 67.47W 110–4 3.9L,3.8W
IDC II 10 06 03 13.3–1.2 31.24S 67.13W 109–7 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=5.0km az=39.1.
SJA Error ellipse: s-maj=2.6km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=51.7km s-min=28.4km az=120.0.
SJA II 10 16 38 12.7–.50 32.00S 69.76W 101–3 3.6W,3.3L
¶602035895
SJA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC II 11 03 13 54.4–.72 31.49S–.04 68.65W–.04 114–5 3.4b 46 0-153
ISCJB II 11 03 13 53.9–.39 31.48S–.03 68.66W–.04 117–4 3.5b **¶17192046**
IDC II 11 03 13 53.2–2.5 31.58S 68.69W 104–22 3.7,3.6
SJA II 11 03 13 54.6–.69 31.53S 68.59W 108–3 3.9L,3.6
GUC II 11 03 13 54.2–.35 31.48S 68.71W 142–19 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=22.7.
IDC Error ellipse: s-maj=30.8km s-min=23.3km az=92.0.
SJA Error ellipse: s-maj=2.5km s-min=5.2km az=-1.0.
GUC Error ellipse: s-maj=1.2km s-min=10.7km az=-1.0.
SJA II 11 17 56 52.3–1.0 31.61S 69.41W 104–5 3.3W,3.1L
¶602035911
SJA Error ellipse: s-maj=3.0km s-min=4.8km az=-1.0.
SJA II 12 01 58 01.2–1.2 31.29S 68.91W 115–8 3.8W,3.4L
¶602035918
SJA Error ellipse: s-maj=3.5km s-min=4.6km az=-1.0.
SJA II 20 00 28 58.7–.51 31.20S 68.96W 108–3 3.5W,3.0L
¶602036068
SJA Error ellipse: s-maj=1.8km s-min=2.4km az=-1.0.
SJA II 20 01 02 11.7–.78 31.57S 67.91W 25–3 3.9W,3.1L
¶602036071
SJA Error ellipse: s-maj=2.1km s-min=1.9km az=-1.0.
SJA II 26 01 17 50.7–.47 31.13S 68.40W 100–2 3.8W,3.2L
¶602036153
SJA Error ellipse: s-maj=1.9km s-min=3.0km az=-1.0.
SJA II 26 05 37 15.4–.37 31.32S 68.46W 103–1 3.5W,3.0L
¶602036157
SJA Error ellipse: s-maj=1.4km s-min=2.2km az=-1.0.
SJA II 26 10 48 40.9–.37 30.73S 67.79W 72–11 2.5
¶602036163
SJA Error ellipse: s-maj=2.7km s-min=3.0km az=-1.0.
ISC II 27 05 53 16.0–.65 31.46S–.03 69.53W–.04 111–5 4.3b 275 0-174
IDC II 27 05 53 13.9–2.8 31.53S 69.42W 92–24 4.3,4.1 **¶602036174**
ISCJB II 27 05 53 15.0–.19 31.44S–.02 69.52W–.03 111–2 4.3b,4.1
SJA II 27 05 53 14.9–.66 31.47S 69.48W 112–4 4.6L,4.1
BJI II 27 05 53 14.7 31.40S 69.30W 99 5.0b,4.1
GUC II 27 05 53 14.9–.33 31.46S 69.68W 121–8 4.5L,4.1
NEIC II 27 05 53 14.7–.59 31.48S 69.36W 99–5 4.6,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=17.0km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=5.2.
SJA Error ellipse: s-maj=2.5km s-min=5.0km az=-1.0.
GUC Error ellipse: s-maj=0.6km s-min=6.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.5km az=78.0. Felt [III] at San Juan.
ISC III 05 11 14 32.7–.68 31.21S–.04 69.18W–.04 116–6 3.9b 45 1-151
NEIC III 05 11 14 31.6–.82 31.26S 69.07W 108–8 4.4b **¶16442189**
IDC III 05 11 14 31.8–3.4 31.18S 69.14W 106–29 3.9,3.8b
GUC III 05 11 14 32.8–.53 31.13S 69.21W 113–22 3.9L,3.8b
ISCJB III 05 11 14 32.2–.38 31.15S–.03 69.19W–.04 119–4 4.0b,3.8b
SJA III 05 11 14 33.1–.78 31.21S 69.11W 112–5 4.1W,3.8L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=9.8km az=74.0.
IDC Error ellipse: s-maj=37.7km s-min=22.5km az=116.0.
GUC Error ellipse: s-maj=1.6km s-min=13.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=140.9.
SJA Error ellipse: s-maj=2.5km s-min=3.7km az=-1.0.
ISC III 13 20 15 50.7–.66 31.83S–.05 69.28W–.04 123–5 4.2b 42 0-151

SJA III 13 20 15 49.3–.59 31.90S 69.27W 126–3 4.1L ¶16477615
ISCJB III 13 20 15 49.8–.43 31.84S–.04 69.27W–.04 128–4 4.3b
GUC III 13 20 15 51.2–.63 31.73S 69.34W 140–29 4.3L
IDC III 13 20 15 51.5–.94 32.02S 69.19W 123–6 4.4,4.1b
ISC Event type ke.
SJA Error ellipse: s-maj=3.7km s-min=2.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.5km az=31.5.
GUC Error ellipse: s-maj=5.6km s-min=23.2km az=-1.0.
IDC Error ellipse: s-maj=39.0km s-min=22.1km az=108.0.
ISC III 13 21 06 45.1–1.7 31.15S–.04 69.98W–.04 124–15 33 1-5
GUC III 13 21 06 45.3–.47 31.12S 69.97W 113–10 3.6L ¶16630555
ISCJB III 13 21 06 45.0–.82 31.13S–.03 69.95W–.04 120–9 3.6L
SJA III 13 21 06 45.4–1.3 31.21S 69.88W 124–9 3.2L,2.9W
ISC Event type ke.
GUC Error ellipse: s-maj=1.4km s-min=10.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=44.7.
SJA Error ellipse: s-maj=5.2km s-min=7.0km az=-1.0.
ISC III 21 15 35 55.7–1.9 31.67S–.05 67.20W–.04 4–13 23 1-152
IDC III 21 15 35 48.3–1.7 27.90S 71.28W 0 3.9L,3.8 ¶16630886
SJA III 21 15 35 55.0–.70 31.64S 67.22W 15–2 3.9L,3.5W
ISC Event type ke.
IDC Error ellipse: s-maj=94.2km s-min=49.9km az=115.0.
SJA Error ellipse: s-maj=1.3km s-min=1.6km az=-1.0.
ISC III 23 14 39 43.1–.68 30.11S–.03 67.68W–.03 20–5 28 1-151
SJA III 23 14 39 42.2–.71 30.16S 67.62W 9–3 3.8W,3.7L ¶16480457
IDC III 23 14 39 42.1–1.4 30.92S 67.34W 32–6 3.9,3.8
ISC Event type ke.
SJA Error ellipse: s-maj=1.4km s-min=2.1km az=-1.0.
IDC Error ellipse: s-maj=67.8km s-min=34.9km az=161.0.
SJA III 24 13 46 34.3–.77 30.15S 67.61W 11–2 3.5L,3.3W
¶16630951

SJA Error ellipse: s-maj=1.2km s-min=2.0km az=-1.0.
ISC III 26 04 14 09.1–.86 31.61S–.06 69.39W–.07 119–7 3.4b 32 0-151
IDC III 26 04 13 51.2–2.4 32.48S 69.70W 0 4.0,3.7 ¶16480976
SJA III 26 04 14 07.3–.91 31.61S 69.41W 126–4 3.6L,3.3W
ISCJB III 26 04 14 08.5–.55 31.62S–.05 69.35W–.08 125–5 3.3b,3.3W
ISC Event type ke.
ISCJB Event type ke.
SJA III 26 05 06 08.3–.87 31.32S 68.62W 100–5 3.5L,3.4W
¶16630999

SJA Error ellipse: s-maj=2.6km s-min=4.2km az=-1.0.
ISC III 27 17 15 37.0–.50 31.72S–.06 68.93W–.07 110 4.3b 47 0-164
NEIC III 27 17 15 34.9–.94 31.66S 68.97W 91–8 4.4b ¶16374416
SJA III 27 17 15 35.4–.72 31.62S 69.12W 111–12 4.8L,4.1W
ISCJB III 27 17 15 36.1–.38 31.65S–.04 68.94W–.09 110 4.3b,4.1W
IDC III 27 17 15 37.7–.82 31.68S 68.92W 114–6 4.3s,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.2km az=88.0.
SJA Error ellipse: s-maj=4.0km s-min=9.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=6.3km az=6.9.
IDC Error ellipse: s-maj=20.5km s-min=18.2km az=92.0.
SJA III 30 04 17 40.1–1.9 31.26S 68.63W 103–10 3.6L,3.1W
¶16631088

SJA Error ellipse: s-maj=5.0km s-min=5.3km az=-1.0.
ISC III 30 18 55 34.4–.82 31.84S–.05 67.32W–.05 129–7 3.5b 36 0-152
IDC III 30 18 55 32.5–2.8 31.80S 67.26W 108–24 3.9,3.7 ¶16475856
ISCJB III 30 18 55 33.6–.49 31.83S–.04 67.32W–.06 136–5 3.4b,3.7
SJA III 30 18 55 34.6–1.4 31.82S 67.37W 122–11 4.0L,3.5W
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=23.9km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.4km az=29.2.
SJA Error ellipse: s-maj=3.9km s-min=5.7km az=-1.0.
SJA IV 05 14 03 25.7–.79 31.27S 68.81W 107–4 3.1W,3.0L
¶16648158

SJA Error ellipse: s-maj=2.7km s-min=5.0km az=-1.0.
ISC IV 08 13 00 19.7–.56 31.29S–.04 68.66W–.05 107–4 4.2b 56 0-163
NEIC IV 08 13 00 18.0 31.25S 68.64W 105 4.5 ¶16577754
GUC IV 08 13 00 18.9–.41 31.28S 69.46W 202–11 4.2L
ISCJB IV 08 13 00 19.2–.32 31.32S–.03 68.63W–.04 113–3 4.1b
IDC IV 08 13 00 19.7–.60 31.36S 68.53W 106–5 4.0,3.8
SJA IV 08 13 00 19.0–.73 31.32S 68.63W 109–3 4.3L,4.1W
ISC Event type fe.
NEIC Event type fe. Felt [IV] at San Juan. After SJA.
GUC Error ellipse: s-maj=1.2km s-min=18.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=29.5.
IDC Error ellipse: s-maj=23.6km s-min=14.2km az=84.0.
SJA Error ellipse: s-maj=2.4km s-min=3.7km az=-1.0.
ISC IV 10 03 59 39.2–.39 30.54S–.03 68.87W–.04 115–3 4.6b 586 1-177
IDC IV 10 03 59 35.6–.51 30.55S 68.83W 78–3 4.6,4.4 ¶16416034
BJI IV 10 03 59 35.4 30.50S 68.60W 79 5.2s,5.0
NEIC IV 10 03 59 35.6–.59 30.53S 68.60W 82–4 4.8b,4.4
ISCJB IV 10 03 59 36.9–.31 30.39S–.03 68.65W–.05 102–2 4.6b,4.4
GUC IV 10 03 59 38.6–.56 30.26S 68.83W 21–7 4.5L,4.4
SJA IV 10 03 59 38.1–.93 30.55S 68.89W 101–11 4.6L,4.3W
ISC Event type fe.
IDC Error ellipse: s-maj=17.2km s-min=12.6km az=60.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=63.0. Felt [III] at San Juan.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=3.8km az=152.1.
GUC Error ellipse: s-maj=5.0km s-min=4.0km az=-1.0.
SJA Error ellipse: s-maj=2.1km s-min=3.8km az=-1.0.
SJA IV 11 10 55 05.4–.71 31.28S 68.70W 102–3 3.6W,2.9L
¶16648530

SJA Error ellipse: s-maj=1.7km s-min=2.8km az=-1.0.
SJA IV 11 12 39 02.3–.85 29.78S 68.93W 120–6 3.9L,3.8W
¶16648531

SJA Error ellipse: s-maj=1.8km s-min=2.6km az=-1.0.
SJA IV 14 00 27 17.5–.73 30.29S 68.90W 18–2 3.7W,3.3L
¶16648719

SJA Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
ISC IV 15 04 57 51.3–.85 31.68S–.05 68.25W–.06 115–6 32 0-151
ISCJB IV 15 04 57 50.5–.54 31.66S–.04 68.26W–.05 120–4 3.3b ¶16648788
IDC IV 15 04 57 50.2–4.6 31.70S 68.22W 107–47 3.5,3.4
GUC IV 15 04 57 50.9–.30 31.65S 68.35W 128–18 3.8L,3.4
SJA IV 15 04 57 51.1–.68 31.72S 68.17W 106–3 3.5W,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.0km az=30.6.
IDC Error ellipse: s-maj=56.4km s-min=37.3km az=72.0.
GUC Error ellipse: s-maj=1.4km s-min=6.2km az=-1.0.
SJA Error ellipse: s-maj=2.4km s-min=4.1km az=-1.0.
SJA IV 19 23 19 57.0–.59 31.37S 68.89W 107–2 3.5W,2.7L
¶16649018

SJA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
SJA IV 20 10 04 08.9–.48 31.57S 68.73W 101–2 3.5W,1.9L
¶16649050

SJA Error ellipse: s-maj=1.5km s-min=2.7km az=-1.0.
ISC IV 20 20 24 14.3–1.7 31.68S–.05 69.75W–.05 120–15 33 1-5
SJA IV 20 20 24 13.9–.98 31.68S 69.76W 113–6 3.7W,3.3L ¶16649060
ISCJB IV 20 20 24 14.1–.85 31.67S–.04 69.74W–.05 120–9 3.7W,3.3L
GUC IV 20 20 24 15.1–.52 31.67S 70.20W 147–8 3.4L,3.3L
ISC Event type ke.
SJA Error ellipse: s-maj=3.9km s-min=4.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.4km az=141.3.
GUC Error ellipse: s-maj=1.5km s-min=13.8km az=-1.0.
SJA IV 21 00 02 41.8–.52 31.69S 68.98W 102–2 3.5W,2.0L
¶16649092

SJA Error ellipse: s-maj=1.9km s-min=3.5km az=-1.0.
SJA IV 21 03 34 55.6–.32 31.67S 69.81W 104–2 4.1W,2.4L
¶16649099

SJA Error ellipse: s-maj=1.5km s-min=2.7km az=-1.0.
SJA IV 21 07 10 10.9–.56 31.19S 68.44W 30–1 3.8W,2.1L
¶16649103

SJA Error ellipse: s-maj=1.2km s-min=3.3km az=-1.0.
SJA IV 21 10 58 43.2–.38 31.21S 68.33W 101–1 3.7W,2.6L
¶16649106

SJA Error ellipse: s-maj=1.3km s-min=1.8km az=-1.0.
SJA IV 21 20 12 20.6–.28 31.37S 68.63W 97–1 3.9W,2.5L
¶16649114

SJA Error ellipse: s-maj=0.9km s-min=2.1km az=-1.0.
SJA IV 21 22 54 20.7–.41 31.79S 68.32W 106–2 4.2W,2.9L
¶16649117

SJA Error ellipse: s-maj=1.4km s-min=3.0km az=-1.0.
SJA IV 22 14 10 02.4–.52 31.49S 69.40W 100–3 3.7W,1.7L
¶16649176

SJA Error ellipse: s-maj=2.1km s-min=3.7km az=-1.0.
ISC IV 22 14 18 44.9–.82 31.26S–.06 69.17W–.07 116–7 31 1-153
IDC IV 22 14 18 38.2–7.5 31.61S 69.08W 62–59 3.7L,3.6 ¶16649177
SJA IV 22 14 18 43.9–.98 31.27S 69.17W 116–4 3.7L,3.6W
ISCJB IV 22 14 18 44.4–.64 31.27S–.06 69.14W–.08 120–7 2.8b,3.6W
ISC Event type ke.
ISCJB Event type ke.
SJA IV 22 17 58 06.8–.33 31.41S 69.28W 107–2 3.8W,2.1L
¶16649182

SJA Error ellipse: s-maj=1.9km s-min=2.9km az=-1.0.
SJA IV 24 16 48 39.1–.51 31.53S 69.14W 102–3 3.7W,2.3L
¶16649332

SJA Error ellipse: s-maj=3.3km s-min=4.2km az=-1.0.
SJA IV 24 17 49 35.3–.36 31.22S 69.07W 107–2 4.1W,2.5L
¶16649334

SJA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
SJA IV 24 22 54 35.1–.56 31.12S 67.92W 22–2 4.0W,2.3L
¶16649341

SJA Error ellipse: s-maj=1.7km s-min=2.3km az=-1.0.
SJA IV 28 00 25 02.6–.99 30.28S 68.76W 19–4 3.5W,3.2L
¶16649536

SJA Error ellipse: s-maj=2.6km s-min=8.1km az=-1.0.
ISC V 03 03 57 24.5–.53 31.21S–.05 68.52W–.04 109–4 4.3b 84 0-173
ISCJB V 03 03 57 24.1–.30 31.29S–.03 68.52W–.04 114–3 4.2b ¶16493769
NEIC V 03 03 57 24.0 31.31S 68.54W 108 4.4b,4.2
GUC V 03 03 57 24.6–.41 31.19S 68.78W 137–38 4.2L,4.2
SJA V 03 03 57 24.3–1.2 31.32S 68.54W 108–6 4.2L,4.1W
IDC V 03 03 57 25.2–.78 31.36S 68.54W 112–5 4.1,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.8km az=32.2.
NEIC Event type fe. Felt [II] in the epicentral area. After SJA.
GUC Error ellipse: s-maj=1.6km s-min=21.2km az=-1.0.
SJA Error ellipse: s-maj=3.4km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=27.7km s-min=19.4km az=71.0.
SJA V 06 06 49 27.5–.25 31.55S 69.21W 94–1 2.1W,1.5L
¶16988382

SJA Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
SJA V 06 23 06 52.3–.55 31.35S 67.49W 16–1 3.7W,3.5L
¶16988411

SJA Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0.
ISC V 09 00 58 23.2–.68 30.64S–.04 68.78W–.04 109–6 3.3b 61 0-152
ISCJB V 09 00 58 22.4–.35 30.65S–.02 68.78W–.04 119–4 3.3b ¶16709216
SJA V 09 00 58 23.0–1.1 30.64S 68.71W 109–6 3.9W,3.8L
GUC V 09 00 58 24.4–.48 30.71S 68.90W 116–21 4.1L,3.8L
IDC V 09 00 58 25.1–1.2 30.38S 68.62W 110–6 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=2.1.
SJA Error ellipse: s-maj=2.1km s-min=3.8km az=-1.0.
GUC Error ellipse: s-maj=1.7km s-min=9.5km az=-1.0.
IDC Error ellipse: s-maj=36.3km s-min=25.9km az=31.0.
ISC V 09 20 28 41.3–.92 31.60S–.07 68.32W–.08 114–9 19 0-151
SJA V 09 20 28 40.3–1.0 31.71S 68.32W 126–11 4.0L ¶16709286
ISCJB V 09 20 28 41.1–.90 31.70S–.08 68.31W–.09 123–11 4.0L
IDC V 09 20 28 43.1–10 31.46S 68.95W 121–82 4.2,3.9L
ISC Event type ke.
SJA Error ellipse: s-maj=4.6km s-min=5.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=11.4km az=44.7.
IDC Error ellipse: s-maj=124.5km s-min=63.5km az=114.0.
ISC V 12 04 09 58.2–.85 31.66S–.04 69.77W–.04 111–8 46 0-154
ISCJB V 12 04 09 57.5–.57 31.66S–.03 69.77W–.05 116–6 3.7b ¶16709665
SJA V 12 04 09 57.2–.85 31.67S 69.79W 110–10 3.4L
IDC V 12 04 09 57.6–2.8 31.76S 69.69W 103–26 3.7,3.6b
GUC V 12 04 09 58.5–.53 31.68S 69.90W 126–15 3.9L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=163.7.
SJA Error ellipse: s-maj=4.1km s-min=7.4km az=-1.0.
IDC Error ellipse: s-maj=71.0km s-min=26.1km az=98.0.
GUC Error ellipse: s-maj=2.1km s-min=16.5km az=-1.0.
SJA V 12 13 30 25.0–.71 31.57S 69.73W 100–6 3.6W,3.5L
¶16988542

SJA Error ellipse: s-maj=3.1km s-min=5.5km az=-1.0.
SJA V 12 14 57 48.6–.52 31.76S 68.86W 112–9 3.5W,2.6L
¶16988544

SJA Error ellipse: s-maj=5.0km s-min=17.0km az=-1.0.
SJA V 15 10 09 56.4–.58 31.23S 68.37W 100–3 3.5W,2.9L
¶16988600

SJA Error ellipse: s-maj=3.4km s-min=3.6km az=-1.0.
ISC V 20 17 15 26.0–1.7 29.73S–.04 68.85W–.04 128–13 24 0-4
ISCJB V 20 17 15 26.1–.89 29.74S–.04 68.85W–.04 124–8 ¶16988709
SJA V 20 17 15 27.0–1.2 29.81S 68.69W 119–7 3.4W,3.3L
GUC V 20 17 15 27.1–.44 29.68S 69.16W 154–13 3.6L,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.8km az=146.5.
SJA Error ellipse: s-maj=3.7km s-min=9.3km az=-1.0.
GUC Error ellipse: s-maj=3.1km s-min=12.4km az=-1.0.
SJA V 20 19 42 18.3–.96 30.16S 67.76W 10–5 3.5W,3.3L
¶16988711

SJA Error ellipse: s-maj=3.2km s-min=6.4km az=-1.0.
SJA V 21 20 16 06.0–1.2 31.59S 69.01W 113–5 3.7W,3.5L
¶16988840

SJA Error ellipse: s-maj=3.3km s-min=3.7km az=-1.0.
SJA V 23 09 07 21.5–.82 31.98S 69.32W 114–3 3.8L,3.2W
¶16988919

SJA Error ellipse: s-maj=3.0km s-min=3.1km az=-1.0.
SJA V 24 05 45 32.8–.87 31.15S 68.35W 98–4 3.7L,3.4W
¶16988939

SJA Error ellipse: s-maj=2.0km s-min=3.3km az=-1.0.
SJA V 25 02 32 49.9–.61 31.26S 68.77W 100–5 3.5W,2.6L
¶16988957

SJA Error ellipse: s-maj=3.9km s-min=5.8km az=-1.0.
ISC V 27 06 17 58.6–.89 31.70S–.04 69.77W–.04 115–8 45 1-124
IDC V 27 06 17 56.8–2.7 31.75S 69.36W 95–30 3.6,3.5 ¶16711032
ISCJB V 27 06 17 57.8–.46 31.71S–.03 69.78W–.04 119–6 3.1b,3.5
SJA V 27 06 17 57.4–1.1 31.78S 69.76W 122–6 4.0W,3.9L
GUC V 27 06 17 59.6–.54 31.72S 70.11W 128–9 4.1L,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=51.0km s-min=24.4km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=29.7.
SJA Error ellipse: s-maj=5.3km s-min=4.4km az=-1.0.
GUC Error ellipse: s-maj=1.5km s-min=11.4km az=-1.0.
SJA V 30 01 04 35.6–.79 31.55S 68.70W 112–4 3.6W,3.1L
¶16989069

SJA Error ellipse: s-maj=3.7km s-min=5.8km az=-1.0.
ISC V 30 06 02 33.4–1.8 31.89S–.08 69.51W–.07 120–12 20 0-4
ISCJB V 30 06 02 32.6–1.0 31.89S–.09 69.51W–.10 126–9 ¶16989074
GUC V 30 06 02 32.8–.36 31.80S 69.83W 134–16 2.8L
SJA V 30 06 02 32.7–.49 31.89S 69.56W 114–3 3.2W,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=6.2km az=136.8.

GUC Error ellipse: s-maj=7.0km s-min=12.9km az=-1.0.
SJA Error ellipse: s-maj=3.5km s-min=4.1km az=-1.0.
SJA V 30 20 50 41.9–.81 31.51S 69.16W 108–5 3.5W,3.0L
¶16989094

SJA Error ellipse: s-maj=3.9km s-min=5.3km az=-1.0.
ISC V 31 05 47 52.1–1.5 31.76S–.06 68.35W–.05 103–10 22 0-3
ISCJB V 31 05 47 51.0–.78 31.75S–.06 68.33W–.06 111–9 **¶16989102**
GUC V 31 05 47 50.2–.41 31.40S 68.77W 136–43 3.6L
SJA V 31 05 47 50.4–.76 31.78S 68.38W 110–4 3.8W,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.1km az=145.6.
GUC Error ellipse: s-maj=12.1km s-min=19.8km az=-1.0.
SJA Error ellipse: s-maj=3.2km s-min=3.9km az=-1.0.
SJA VI 02 03 27 47.5–.50 31.80S 69.66W 98–4 1.9L
¶16989152

SJA Error ellipse: s-maj=6.9km s-min=7.2km az=-1.0.
ISC VI 05 17 16 12.6–1.3 31.56S–.04 68.26W–.04 117–8 41 0-6
ISCJB VI 05 17 16 11.9–.62 31.56S–.03 68.26W–.04 121–6 **¶16989225**
SJA VI 05 17 16 12.0–1.1 31.56S 68.25W 113–5 3.6W,3.5L
GUC VI 05 17 16 12.9–.54 31.53S 68.55W 150 3.4L,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=42.2.
SJA Error ellipse: s-maj=2.2km s-min=3.8km az=-1.0.
GUC Error ellipse: s-maj=2.0km s-min=5.2km az=-1.0.
ISC VI 10 07 51 01.4–1.6 31.16S–.05 68.57W–.05 100–11 21 0-3
SJA VI 10 07 50 59.6–.67 31.16S 68.55W 108–4 3.8W,3.5L **¶16989307**
ISCJB VI 10 07 51 00.4–1.0 31.16S–.05 68.55W–.06 108–10 3.8W,3.5L
GUC VI 10 07 51 00.5–.51 31.32S 69.34W 130–14 3.2L,3.5L
ISC Event type ke.
SJA Error ellipse: s-maj=2.9km s-min=4.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.4km az=135.9.
GUC Error ellipse: s-maj=1.6km s-min=14.1km az=-1.0.
SJA VI 10 13 02 21.0–.56 31.01S 68.84W 107–7 3.5W,2.8L
¶16989314

SJA Error ellipse: s-maj=3.3km s-min=4.9km az=-1.0.
ISC VI 11 04 07 17.9–1.9 31.23S–.06 69.27W–.08 107–17 27 1-3
SJA VI 11 04 07 16.9–.87 31.24S 69.22W 110–7 3.5W,3.0L **¶16989321**
GUC VI 11 04 07 16.6–.41 31.15S 69.82W 149–25 3.3L,3.0L
ISCJB VI 11 04 07 17.1–1.0 31.22S–.06 69.27W–.09 111–12 3.3L,3.0L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 11 06 20 44.1–.71 31.87S–.05 69.17W–.05 110–6 3.4b 48 0-151
IDC VI 11 06 20 39.7–7.1 32.11S 69.11W 77–52 3.9L,3.7 **¶16856940**
ISCJB VI 11 06 20 43.5–.38 31.90S–.04 69.11W–.05 116–4 3.5b,3.7
SJA VI 11 06 20 43.4–.84 31.92S 69.12W 110–4 4.2W,3.6L
GUC VI 11 06 20 43.8–.58 31.75S 69.59W 133–22 3.6L,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=65.6km s-min=28.3km az=20.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=3.7km az=137.4.
SJA Error ellipse: s-maj=2.4km s-min=4.2km az=-1.0.
GUC Error ellipse: s-maj=10.2km s-min=14.7km az=-1.0.
ISC VI 12 02 23 45.6–1.8 31.44S–.06 68.45W–.08 94–11 24 0-3
ISCJB VI 12 02 23 44.7–1.0 31.43S–.06 68.47W–.09 100–9 **¶16989334**
SJA VI 12 02 23 44.3–.43 31.45S 68.45W 96–2 3.6W,3.3L
GUC VI 12 02 23 45.2–.41 31.19S 68.99W 144–30 3.3L,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=7.3km az=38.3.
SJA Error ellipse: s-maj=1.6km s-min=3.0km az=-1.0.
GUC Error ellipse: s-maj=10.1km s-min=11.0km az=-1.0.
SJA VI 14 20 48 49.8–.39 31.86S 68.30W 100–2 3.5W,2.7L
¶16989381

SJA Error ellipse: s-maj=0.9km s-min=1.2km az=-1.0.
SJA VI 15 02 44 26.1–.40 31.31S 68.23W 98–2 3.6W,2.0L
¶16989382

SJA Error ellipse: s-maj=1.3km s-min=1.2km az=-1.0.
SJA VI 15 03 58 04.5–.59 31.84S 69.75W 118–4 3.6W,1.4L
¶16989384

SJA Error ellipse: s-maj=2.7km s-min=3.1km az=-1.0.
ISC VI 15 09 26 33.8–1.6 31.76S–.06 69.96W–.06 116–13 33 1-4
SJA VI 15 09 26 32.8–.45 31.77S 69.95W 115–2 3.8W,2.5L **¶16989399**
ISCJB VI 15 09 26 33.0–.84 31.76S–.05 69.95W–.06 122–8 3.8W,2.5L
GUC VI 15 09 26 33.3–.58 31.70S 70.35W 120–21 2.7L,2.5L
ISC Event type ke.
SJA Error ellipse: s-maj=1.4km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.2km az=135.3.
GUC Error ellipse: s-maj=10.0km s-min=20.2km az=-1.0.
SJA VI 15 09 46 07.7–.30 31.62S 69.01W 108–1 3.5W,1.4L
¶16989400

SJA Error ellipse: s-maj=1.2km s-min=1.8km az=-1.0.
ISC VI 15 10 36 25.9–2.2 31.57S–.04 69.48W–.07 118–19 26 0-3
ISCJB VI 15 10 36 25.1–1.1 31.56S–.04 69.48W–.06 123–10 **¶16989401**
GUC VI 15 10 36 25.3–.61 31.58S 69.95W 155–13 3.6L
SJA VI 15 10 36 25.0–.63 31.54S 69.53W 112–5 4.1W,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.8km az=21.8.
GUC Error ellipse: s-maj=1.5km s-min=21.6km az=-1.0.
SJA Error ellipse: s-maj=3.1km s-min=3.7km az=-1.0.
SJA VI 15 20 00 30.4–.52 31.92S 68.51W 4 3.9W,1.8L
¶16989407

SJA Error ellipse: s-maj=1.0km s-min=1.4km az=-1.0.
SJA VI 16 06 38 10.7–.50 31.65S 68.80W 19–1 3.5W,1.7L
¶16989412

SJA Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
SJA VI 16 12 42 36.8–.52 31.21S 68.35W 94–2 3.5W,2.2L
¶16989414

SJA Error ellipse: s-maj=1.6km s-min=1.7km az=-1.0.
SJA VI 16 13 10 15.3–.38 31.75S 69.23W 102–1 3.7W,2.2L
¶16989415

SJA Error ellipse: s-maj=1.2km s-min=1.9km az=-1.0.
SJA VI 16 17 40 38.8–.48 29.50S 68.59W 106–2 3.7W,3.0L
¶16989420

SJA Error ellipse: s-maj=1.7km s-min=3.4km az=-1.0.
SJA VI 18 00 54 18.6–1.0 31.26S 68.65W 98–6 2.7W,2.0L
¶16989442

SJA Error ellipse: s-maj=4.2km s-min=4.9km az=-1.0.
SJA VI 18 08 17 42.1–.72 31.51S 67.04W 215–17 3.6W,2.3L
¶16989446

SJA Error ellipse: s-maj=14.3km s-min=11.0km az=-1.0.
SJA VI 18 10 25 28.0–.33 31.56S 68.92W 98–1 3.9W,2.0L
¶16989447

SJA Error ellipse: s-maj=1.5km s-min=2.5km az=-1.0.
ISC VI 26 01 01 35.1–1.8 31.36S–.04 69.19W–.06 113–15 27 0-3
GUC VI 26 01 01 34.7–.46 31.36S 69.68W 158–10 3.6L **¶16989582**
ISCJB VI 26 01 01 35.2–1.1 31.36S–.03 69.21W–.05 110–12 3.6L
SJA VI 26 01 01 35.1–.81 31.38S 69.14W 108–7 3.5W,3.3L
ISC Event type ke.
GUC Error ellipse: s-maj=1.2km s-min=12.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.8km az=15.0.
SJA Error ellipse: s-maj=3.3km s-min=4.8km az=-1.0.
ISC VI 26 02 42 33.1–3.2 31.6S–.10 69.8W–.10 115–27 17 0-2
SJA VI 26 02 42 32.9–.31 31.64S 69.77W 112–6 3.2W,2.7L **¶16989586**
ISCJB VI 26 02 42 33.3–1.6 31.6S–.10 69.8W–.10 114–21 3.2W,2.7L
GUC VI 26 02 42 33.9–.39 31.67S 70.01W 132–14 2.8L,2.7L
ISC Event type ke.
SJA Error ellipse: s-maj=2.2km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=24.8km s-min=7.6km az=143.2.
GUC Error ellipse: s-maj=7.1km s-min=8.5km az=-1.0.
SJA VI 26 05 11 32.5–.67 31.23S 68.29W 106–4 3.5W,3.1L
¶16989589

SJA Error ellipse: s-maj=2.1km s-min=2.9km az=-1.0.
ISC VI 27 18 13 39.3–1.3 31.34S–.02 68.80W–.04 6–11 30 0-151
IDC VI 27 18 13 30.0–2.9 32.70S 69.52W 0 4.0b,3.9 **¶16731631**
SJA VI 27 18 13 38.7–.92 31.33S 68.83W 35–2 4.0W,3.7L
ISCJB VI 27 18 13 40.6–.68 31.33S–.02 68.79W–.04 8–5 3.8b,3.7L
NEIC VI 27 18 13 42.9–1.4 31.84S 69.28W 78–13 4.0,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=75.3km s-min=70.2km az=138.0.
SJA Error ellipse: s-maj=1.9km s-min=3.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=5.8.
NEIC Event type fe. Error ellipse: s-maj=27.4km s-min=13.7km az=53.0. Felt [III] at San Juan.
ISC VI 28 06 02 49.7–1.5 31.62S–.03 69.53W–.05 115–11 39 0-3
ISCJB VI 28 06 02 49.0–.77 31.62S–.02 69.51W–.04 121–7 **¶16989646**
SJA VI 28 06 02 48.5–.99 31.61S 69.48W 120–6 2.9W,2.6L
GUC VI 28 06 02 48.6–.51 31.61S 69.82W 141–10 3.0L,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.9km az=13.4.
SJA Error ellipse: s-maj=2.0km s-min=4.5km az=-1.0.
GUC Error ellipse: s-maj=1.6km s-min=15.0km az=-1.0.
ISC VI 28 06 30 53.7–.68 31.07S–.04 68.45W–.04 102–6 3.8b 63 0-153
ISCJB VI 28 06 30 53.7–.34 31.15S–.03 68.47W–.04 112–3 3.9b **¶16731677**
NEIC VI 28 06 30 53.3–.67 31.19S 68.33W 96–6 4.4,4.1b
IDC VI 28 06 30 53.3–2.6 31.21S 68.49W 96–23 4.1,3.9
SJA VI 28 06 30 53.8–.67 31.17S 68.48W 103–3 4.4L,4.2W
GUC VI 28 06 30 54.4–.41 31.11S 68.72W 146–30 4.3L,4.2W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.1km az=7.3.
NEIC Event type fe. Error ellipse: s-maj=11.6km s-min=7.2km az=81.0. Felt [III] at San Juan.
IDC Error ellipse: s-maj=33.2km s-min=19.3km az=87.0.
SJA Error ellipse: s-maj=1.7km s-min=2.6km az=-1.0.
GUC Error ellipse: s-maj=1.5km s-min=19.5km az=-1.0.
ISC VI 28 06 35 23.9–1.9 31.15S–.06 68.5W–.20 110–20 3.5b 22 2-153
IDC VI 28 06 35 20.1–8.8 31.50S 68.34W 80–66 4.8L,3.9 **¶17207119**
ISCJB VI 28 06 35 23.3–1.4 31.15S–.04 68.5W–.20 119–19 3.7b,3.9
GUC VI 28 06 35 23.3–.51 31.11S 68.67W 141–28 3.7L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=77.1km s-min=34.9km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=28.1km s-min=6.7km az=178.2.
GUC Error ellipse: s-maj=1.4km s-min=15.8km az=-1.0.
SJA VI 29 04 59 05.0–.73 29.13S 68.16W 12–5 4.0W,3.4L
¶16989680

SJA Error ellipse: s-maj=2.3km s-min=3.6km az=-1.0.
SJA VI 29 11 28 52.9–.30 31.33S 68.68W 106–1 3.5W,1.6L
¶16989694

SJA Error ellipse: s-maj=0.8km s-min=1.5km az=-1.0.
ISC VI 29 12 40 35.4–.52 31.87S–.05 68.28W–.04 117–5 4.2b 65 0-172
ISCJB VI 29 12 40 34.6–.32 31.95S–.04 68.27W–.04 124–4 4.4b **¶16685980**
SJA VI 29 12 40 34.9–.44 31.97S 68.26W 122–6 4.3L,4.0W
GUC VI 29 12 40 35.9–.39 31.75S 68.89W 9–8 3.9L,4.0W
IDC VI 29 12 40 36.0–.63 31.89S 68.38W 124–5 4.1,3.9
NEIC VI 29 12 40 35.1–.60 31.95S 68.23W 115–6 4.3,4.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.4km az=164.0.
SJA Error ellipse: s-maj=2.3km s-min=2.8km az=-1.0.
GUC Error ellipse: s-maj=2.4km s-min=11.1km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=16.2km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.7km az=85.0. Felt [IV] at San Juan.
ISC VI 30 22 25 48.2–.82 31.36S–.05 68.69W–.06 112–6 34 0-153
SJA VI 30 22 25 46.9–.46 31.39S 68.65W 118–2 3.9W,3.8L **¶16731881**
ISCJB VI 30 22 25 47.6–.61 31.38S–.04 68.65W–.07 117–6 3.8b,3.8L
IDC VI 30 22 25 52.3–10 30.94S 68.75W 129–79 4.2,3.8
ISC Event type ke.
SJA Error ellipse: s-maj=1.0km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.8km az=13.6.
IDC Error ellipse: s-maj=97.5km s-min=75.1km az=54.0.

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ISC I 07 12 33 30.2–.66 28.32S–.06 67.50W–.07 130 4.0b 37 1-150
ISCJB I 07 12 33 29.3–.39 28.32S–.04 67.51W–.08 130 3.8b **¶17189640**
SJA I 07 12 33 29.6–.89 28.38S 67.47W 129–5 3.9W,3.9L
IDC I 07 12 33 30.8–.81 28.21S 67.34W 129–5 4.0,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.7km az=11.0.
SJA Error ellipse: s-maj=3.6km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=15.6km az=61.0.
ISC I 12 23 18 33.4–.73 28.70S–.06 67.35W–.07 130 3.7b 21 1-150
IDC I 12 23 18 31.1–4.5 28.76S 67.37W 110–33 3.9,3.7 **¶17190024**
ISCJB I 12 23 18 32.5–.50 28.63S–.05 67.34W–.07 130 3.6b,3.7
SJA I 12 23 18 33.4–.70 28.82S 67.45W 131–12 3.9L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=40.3km s-min=20.7km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.3km az=161.4.
SJA Error ellipse: s-maj=6.7km s-min=7.6km az=-1.0.
ISC II 05 16 50 43.9–.87 28.70S–.05 67.39W–.07 130 28 1-150
SJA II 05 16 50 42.6–.71 28.73S 67.39W 143–4 3.8W,3.8L **¶17191750**
ISCJB II 05 16 50 43.7–.50 28.74S–.05 67.37W–.08 130 3.2b,3.8L
IDC II 05 16 50 43.9–4.8 28.71S 67.88W 126–37 3.7,3.5
ISC Event type ke.
SJA Error ellipse: s-maj=3.0km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.5km az=16.4.
IDC Error ellipse: s-maj=52.5km s-min=27.0km az=44.0.
ISC II 06 20 03 19.6–.83 31.39S–.06 66.68W–.08 132 28 1-152
IDC II 06 20 03 18.2–2.4 31.48S 66.50W 110–21 3.9,3.6 **¶17191822**
ISCJB II 06 20 03 19.4–.53 31.41S–.05 66.60W–.07 132 3.7b,3.6
SJA II 06 20 03 19.7–.69 31.37S 66.74W 133–5 3.8W,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=38.7km s-min=22.6km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.5km az=30.2.
SJA Error ellipse: s-maj=2.5km s-min=3.9km az=-1.0.
SJA II 18 15 52 43.9–.59 30.14S 66.05W 112–8 4.2W
¶602036035

SJA Error ellipse: s-maj=3.7km s-min=7.1km az=-1.0.
ISC III 16 14 22 05.0–.61 30.93S–.05 66.57W–.05 10 3.8b 28 0-151
IDC III 16 14 22 01.9–.94 31.02S 66.59W 0 4.0,3.9L **¶16427620**
ISCJB III 16 14 22 03.6–.57 30.82S–.05 66.50W–.05 10 3.9b,3.4s
IASPE III 16 14 22 05.4–.57 30.96S 66.64W 22 3.8b,3.4s
SJA III 16 14 22 05.0–.52 30.94S 66.66W 21–2 4.2L,3.4s
NEIC III 16 14 22 06.9–2.4 31.03S 66.48W 33–18 4.2,3.4s
ISC Event type fe.
IDC Error ellipse: s-maj=33.9km s-min=25.4km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.9km az=23.5.
IASPE Event type ke. Argentina. GT5 from local network data. INPRES Catalog, 2013, personal communication with Gerardo S˜¡nchez, Dpto. Investigaciones Sismol˜‡gicas, INPRES - Argentina.
SJA Error ellipse: s-maj=1.6km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.8km s-min=10.0km az=94.0. Felt [III] in the Chepes-Olta area.
ISC IV 12 07 58 49.1–.68 28.95S–.04 67.42W–.05 130–6 3.5b 35 1-150
IDC IV 12 07 58 47.8–8.7 29.08S 67.44W 118–61 3.7,3.7 **¶16648603**
SJA IV 12 07 58 47.6–.83 29.00S 67.34W 142–4 3.9W,3.8L
ISCJB IV 12 07 58 48.3–.40 28.97S–.04 67.42W–.05 133–4 3.4b,3.8L
GUC IV 12 07 58 50.9–.56 28.82S 67.49W 100 4.8L,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=98.4km s-min=25.6km az=34.0.
SJA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.5km az=27.2.
GUC Error ellipse: s-maj=7.3km s-min=7.2km az=-1.0.
ISC IV 12 22 17 57.3–1.1 28.73S–.08 67.13W–.06 13–7 24 1-150
SJA IV 12 22 17 56.9–1.1 28.78S 67.15W 22–5 3.3L,3.2W **¶16648617**
ISCJB IV 12 22 17 57.9–2.1 28.78S–.08 67.17W–.07 11–19 3.4b,3.2W
IDC IV 12 22 17 57.6–.88 29.42S 66.80W 18–4 3.8L,3.5
ISC Event type ke.
SJA Error ellipse: s-maj=4.3km s-min=2.8km az=-1.0.

ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=5.8km az=147.7.
IDC Error ellipse: s-maj=93.7km s-min=28.1km az=155.0.
ISC IV 20 21 23 54.8–.91 29.41S–.05 68.0W–.10 107–9 21 1-151
IDC IV 20 21 23 50.7–9.2 29.71S 68.08W 78–69 3.6L,3.4 **¶16649061**
ISCJB IV 20 21 23 55.0–.76 29.44S–.04 67.9W–.10 102–10 3.6L,3.4
SJA IV 20 21 23 55.1–.62 29.46S 68.01W 91–6 3.4W,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=97.4km s-min=58.0km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=6.5km az=7.8.
SJA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
SJA IV 21 14 51 47.0–.51 28.61S 67.60W 125–3 3.6W,2.8L
¶16649108
SJA Error ellipse: s-maj=3.6km s-min=2.5km az=-1.0.
SJA IV 23 13 39 25.0–.40 31.01S 66.52W 36–6 4.1W,2.5L
¶16649260
SJA Error ellipse: s-maj=2.1km s-min=4.2km az=-1.0.
SJA IV 25 07 25 15.5–.96 28.95S 67.41W 133–6 4.1L,3.3W
¶16649390
SJA Error ellipse: s-maj=2.7km s-min=5.8km az=-1.0.
ISC IV 25 17 36 20.7–.65 29.47S–.04 67.75W–.05 120–6 3.8b 52 1-151
GUC IV 25 17 36 18.3–.37 29.42S 67.57W 102–4 4.8L **¶16649398**
ISCJB IV 25 17 36 19.6–.33 29.50S–.03 67.72W–.04 127–4 3.8b
SJA IV 25 17 36 19.9–.89 29.50S 67.68W 121–5 5.0L,4.2W
IDC IV 25 17 36 21.6–.97 29.44S 67.70W 120–6 4.0,3.9
ISC Event type ke.
GUC Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.0km az=25.9.
SJA Error ellipse: s-maj=2.2km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=27.8km s-min=23.9km az=19.0.
ISC V 07 19 13 33.8–.90 28.81S–.06 67.52W–.06 129 23 1-150
IDC V 07 19 13 32.7–7.7 28.84S 67.75W 118–64 3.9,3.4 **¶16709113**
SJA V 07 19 13 32.8–.55 28.86S 67.48W 132–3 3.4W,3.4L
ISCJB V 07 19 13 33.1–.50 28.82S–.05 67.49W–.07 129 3.2b,3.4L
ISC Event type ke.
ISCJB Event type ke.
SJA V 08 11 21 54.5–.40 28.70S 67.23W 10–3 3.5W,2.9L
¶16988441
SJA Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0.
SJA V 08 20 56 30.7–.39 28.38S 67.13W 144–1 3.6W,3.5L
¶16988449
SJA Error ellipse: s-maj=2.4km s-min=1.9km az=-1.0.
ISC V 12 17 16 44.6–1.0 28.85S–.06 68.6W–.10 107 17 0-151
ISCJB V 12 17 16 43.4–1.0 28.87S–.06 68.7W–.10 107 3.2b **¶16709705**
IDC V 12 17 16 43.4–5.6 28.83S 68.53W 98–41 3.6,3.5
SJA V 12 17 16 45.2–.63 28.94S 68.45W 106–4 3.7L,3.6W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=7.7km az=167.0.
IDC Error ellipse: s-maj=55.4km s-min=26.9km az=43.0.
SJA Error ellipse: s-maj=2.7km s-min=10.3km az=-1.0.
ISC V 15 03 20 11.0–1.7 28.53S–.06 68.87W–.05 107–15 18 1-4
ISCJB V 15 03 20 10.1–.93 28.52S–.06 68.86W–.05 113–10 **¶16988592**
SJA V 15 03 20 10.1–.62 28.57S 68.83W 111–4 3.7L,3.5W
GUC V 15 03 20 10.4–.64 28.51S 68.94W 115–190 3.5L,3.5W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.3km az=4.0.
SJA Error ellipse: s-maj=3.5km s-min=4.0km az=-1.0.
GUC Error ellipse: s-maj=19.0km s-min=135.7km az=-1.0.
ISC V 28 20 44 14.9–1.2 28.84S–.04 67.68W–.04 9–9 3.6b 32 0-151
IDC V 28 20 44 13.2–.94 28.95S 67.73W 0 3.9,3.8 **¶16711159**
SJA V 28 20 44 15.4–1.2 28.70S 67.66W 4 3.6L,3.4W
ISC Event type ke.
IDC Error ellipse: s-maj=35.7km s-min=21.8km az=67.0.
SJA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
SJA VI 09 00 27 53.6–.56 28.57S 67.86W 114–4 3.6W,3.1L
¶16989286
SJA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.
ISC VI 13 00 56 30.3–.75 28.53S–.05 67.31W–.04 139–7 4.0b 39 1-150
ISCJB VI 13 00 56 29.4–.36 28.53S–.03 67.32W–.04 145–4 3.8b **¶16730369**
SJA VI 13 00 56 29.3–.59 28.59S 67.21W 151–2 3.9W,3.7L
GUC VI 13 00 56 31.6–.40 28.51S 67.47W 140–35 4.3L,3.7L
IDC VI 13 00 56 34.3–4.6 28.21S 66.91W 150–31 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=40.7.
SJA Error ellipse: s-maj=2.1km s-min=2.9km az=-1.0.
GUC Error ellipse: s-maj=3.2km s-min=10.4km az=-1.0.
IDC Error ellipse: s-maj=47.4km s-min=15.6km az=26.0.

(139) Mendoza Province.

SJA I 03 08 24 12.8–.90 33.05S 68.30W 23–5 2.8L,2.3W
¶601890947
SJA Error ellipse: s-maj=6.0km s-min=3.6km az=-1.0.
SJA I 05 20 26 46.1–.70 32.07S 68.27W 110–3 3.3L,3.0W
¶601890966
SJA Error ellipse: s-maj=1.7km s-min=2.9km az=-1.0.
SJA I 08 10 54 50.6–.42 32.18S 69.49W 106–2 4.3L,3.8W
¶601890992
SJA Error ellipse: s-maj=1.5km s-min=3.3km az=-1.0.
ISC I 17 03 50 55.3–2.4 32.38S–.07 69.64W–.07 125–17 21 0-2
ISCJB I 17 03 50 55.9–1.3 32.38S–.06 69.62W–.08 120–10 **¶601516208**
SJA I 17 03 50 56.8–.57 32.35S 69.58W 108–3 2.7L
GUC I 17 03 50 56.4–.50 32.30S 70.18W 149–6 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.0km az=44.9.
SJA Error ellipse: s-maj=2.3km s-min=5.3km az=-1.0.
GUC Error ellipse: s-maj=6.6km s-min=11.5km az=-1.0.
ISC I 23 03 02 28.3–.90 32.02S–.04 69.80W–.05 109–7 34 0-152
IDC I 23 03 02 13.8–1.7 32.52S 69.69W 0 3.9,3.9 **¶17190774**
ISCJB I 23 03 02 27.4–.57 32.01S–.03 69.80W–.05 116–6 3.7b,3.9
GUC I 23 03 02 27.8–.53 32.02S 70.10W 132–8 3.9L,3.9
SJA I 23 03 02 27.6–1.2 32.00S 69.77W 105–7 3.6L,3.4W
ISC Event type ke.
IDC Error ellipse: s-maj=112.3km s-min=49.4km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.2km az=23.0.
GUC Error ellipse: s-maj=1.6km s-min=13.9km az=-1.0.
SJA Error ellipse: s-maj=6.8km s-min=9.0km az=-1.0.
ISC II 02 15 56 20.6–1.6 32.27S–.06 69.47W–.06 109–11 27 0-4
ISCJB II 02 15 56 19.3–.81 32.26S–.07 69.47W–.08 120–9 **¶601516437**
SJA II 02 15 56 19.1–.74 32.31S 69.43W 109–4 3.3L
GUC II 02 15 56 19.0–.30 31.94S 69.75W 111–13 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.5km az=43.9.
SJA Error ellipse: s-maj=4.2km s-min=4.7km az=-1.0.
GUC Error ellipse: s-maj=3.5km s-min=9.0km az=-1.0.
SJA II 13 16 39 48.0–1.1 33.06S 68.60W 19–5 3.9L,3.8W
¶602035958
SJA Error ellipse: s-maj=5.0km s-min=7.4km az=-1.0.
SJA II 18 17 51 44.7–.56 32.51S 69.30W 119–3 3.7W,3.4L
¶602036038
SJA Error ellipse: s-maj=2.1km s-min=2.6km az=-1.0.
SJA II 20 00 52 32.0–.40 32.35S 69.39W 51–4 5.0W,4.6L
¶602036070
SJA Error ellipse: s-maj=7.5km s-min=8.2km az=-1.0.
ISC III 29 07 35 17.6–2.2 32.87S–.07 69.80W–.05 127–15 30 1-3
ISCJB III 29 07 35 17.9–.94 32.85S–.06 69.78W–.05 123–7 **¶16631073**
SJA III 29 07 35 17.4–1.3 32.84S 69.79W 122–7 3.5L,3.2W
GUC III 29 07 35 19.0–.37 32.81S 70.02W 118–12 3.6L,3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.8km az=147.4.
SJA Error ellipse: s-maj=5.1km s-min=4.6km az=-1.0.
GUC Error ellipse: s-maj=8.4km s-min=13.8km az=-1.0.
ISC III 29 18 52 07.6–1.7 32.03S–.07 69.98W–.07 107–14 27 1-4
GUC III 29 18 52 06.3–.33 32.01S 70.10W 117–20 3.2L **¶16631082**
SJA III 29 18 52 06.9–1.3 32.00S 69.98W 100–8 3.0L,2.7W
ISCJB III 29 18 52 06.7–.92 32.02S–.06 69.97W–.07 112–10 3.0L,2.7W
ISC Event type ke.
ISCJB Event type ke.
ISC IV 07 05 59 27.6–1.9 32.20S–.07 69.57W–.07 114–14 20 0-4
ISCJB IV 07 05 59 26.7–1.1 32.20S–.08 69.58W–.08 121–11 **¶16648265**
SJA IV 07 05 59 26.7–.64 32.19S 69.57W 113–4 2.8W,2.7L
GUC IV 07 05 59 27.0–.38 32.20S 69.91W 139–15 2.9L,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=6.8km az=138.9.
SJA Error ellipse: s-maj=3.3km s-min=4.7km az=-1.0.
GUC Error ellipse: s-maj=8.1km s-min=15.2km az=-1.0.
ISC IV 14 15 37 34.3–1.5 33.29S–.08 68.95W–.06 10 18 0-5
ISCJB IV 14 15 37 38.7–1.0 33.12S–.07 68.99W–.06 10 **¶16648732**
GUC IV 14 15 37 38.5–.29 34.12S 69.54W 23–7 2.5L
SJA IV 14 15 37 38.2–.72 33.09S 68.98W 19–2 3.5W,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.1km az=150.4.
GUC Error ellipse: s-maj=6.7km s-min=8.3km az=-1.0.
SJA Error ellipse: s-maj=3.4km s-min=4.1km az=-1.0.
SJA IV 20 07 23 07.0–.31 32.06S 69.19W 17–1 3.5W,2.2L
¶16649046
SJA Error ellipse: s-maj=0.6km s-min=1.6km az=-1.0.
SJA IV 20 11 03 14.8–.50 32.28S 68.95W 10 3.9W,2.7L
¶16649051
SJA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
SJA IV 21 21 23 14.5–.44 32.13S 68.60W 110–3 3.5W,1.7L
¶16649115
SJA Error ellipse: s-maj=2.1km s-min=3.7km az=-1.0.
ISC IV 23 03 29 58.4–2.0 33.71S–.06 68.61W–.06 0–11 32 1-3
SJA IV 23 03 29 58.9–.86 33.66S 68.62W 18–2 3.4W,3.4L **¶16649248**
GUC IV 23 03 30 01.1–.47 33.65S 68.71W 16–14 3.0L,3.4L
ISC Event type ke.
SJA Error ellipse: s-maj=3.0km s-min=3.2km az=-1.0.
GUC Error ellipse: s-maj=5.8km s-min=8.4km az=-1.0.
ISC IV 24 20 29 05.3–2.3 32.62S–.09 69.75W–.07 116–19 19 1-4
ISCJB IV 24 20 29 04.7–1.4 32.61S–.09 69.76W–.08 120–14 **¶16649337**
SJA IV 24 20 29 04.5–.36 32.60S 69.75W 115–4 4.5W,2.9L
GUC IV 24 20 29 05.2–.27 32.57S 69.96W 130–8 2.9L,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=7.2km az=145.9.
SJA Error ellipse: s-maj=2.5km s-min=1.9km az=-1.0.
GUC Error ellipse: s-maj=5.2km s-min=9.3km az=-1.0.
ISC V 03 13 48 35.1–.93 32.61S–.02 68.98W–.02 11–8 54 0-7
SJA V 03 13 48 34.4–1.2 32.64S 68.91W 22–3 3.7W,3.7L **¶16988323**
IASPE V 03 13 48 34.6–.87 32.64S 68.91W 21 3.7W,3.7L
ISCJB V 03 13 48 35.4–.57 32.63S–.03 68.96W–.03 7–4 3.7W,3.7L
GUC V 03 13 48 35.9–.56 32.86S 68.87W 105–36 3.5L,3.7L
ISC Event type ke.
SJA Error ellipse: s-maj=3.1km s-min=5.3km az=-1.0.
IASPE Event type ke. Argentina. GT5 from local network data. INPRES Catalog, 2013, personal communication with Gerardo S¨¡nchez, Dpto. Investigaciones Sismol¨‡gicas, INPRES - Argentina.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.4km az=41.1.
GUC Error ellipse: s-maj=12.8km s-min=15.2km az=-1.0.
SJA V 06 15 47 32.6–.29 32.19S 69.29W 117–1 3.6W,3.2L
¶16988398
SJA Error ellipse: s-maj=1.4km s-min=1.8km az=-1.0.
SJA V 08 14 06 56.5–.38 32.16S 68.38W 115–2 3.6W,3.4L
¶16988444
SJA Error ellipse: s-maj=1.9km s-min=7.8km az=-1.0.
SJA V 09 01 13 21.3–.58 32.42S 67.93W 126–4 5.0L,2.8W
¶16988451
SJA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
SJA V 23 13 21 43.2–.99 32.13S 69.90W 124–4 3.9L,3.0W
¶16988924
SJA Error ellipse: s-maj=2.8km s-min=3.5km az=-1.0.
SJA V 24 06 25 18.2–.55 32.20S 68.43W 91–8 2.5
¶16988940
SJA Error ellipse: s-maj=4.0km s-min=5.8km az=-1.0.
SJA V 29 20 29 05.7–.76 32.94S 67.71W 170–6 3.5W,3.4L
¶16989063
SJA Error ellipse: s-maj=3.9km s-min=3.7km az=-1.0.
ISC VI 02 16 42 07.1–.84 33.37S–.08 67.91W–.06 185–6 3.4b 39 1-154
IDC VI 02 16 42 04.9–7.1 33.54S 68.00W 167–56 4.0,3.7 **¶16856121**
ISCJB VI 02 16 42 06.8–.63 33.34S–.07 67.94W–.06 187–4 3.5b,3.7
GUC VI 02 16 42 06.7–.32 32.60S 67.81W 148–83 4.1L,3.7
SJA VI 02 16 42 06.7–.96 33.33S 67.96W 196–13 3.8W,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=50.2km s-min=24.7km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.4km az=150.9.
GUC Error ellipse: s-maj=33.2km s-min=26.6km az=-1.0.
SJA Error ellipse: s-maj=5.9km s-min=5.6km az=-1.0.
ISC VI 05 17 38 20.7–1.6 32.16S–.05 69.34W–.05 127–10 36 0-4
SJA VI 05 17 38 20.6–1.3 32.15S 69.40W 117–7 3.5W,3.4L **¶16989226**
GUC VI 05 17 38 20.6–.58 31.98S 69.68W 129–17 3.3L,3.4L
ISCJB VI 05 17 38 21.0–.82 32.13S–.04 69.39W–.05 122–8 3.3L,3.4L
ISC Event type ke.
ISCJB Event type ke.
SJA VI 07 21 21 59.7–.61 32.43S 69.86W 122–5 3.6W,2.5L
¶16989266
SJA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC VI 10 11 53 22.3–2.1 32.22S–.08 69.74W–.07 119–19 21 0-2
ISCJB VI 10 11 53 22.0–1.4 32.21S–.09 69.74W–.08 120–16 **¶16989313**
SJA VI 10 11 53 21.6–.78 32.22S 69.73W 117–9 3.5W,3.0L
GUC VI 10 11 53 23.0–.38 32.12S 69.79W 104–26 3.0L,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=6.5km az=142.3.
SJA Error ellipse: s-maj=4.7km s-min=5.5km az=-1.0.
GUC Error ellipse: s-maj=12.1km s-min=10.4km az=-1.0.
SJA VI 15 10 44 11.0–.53 33.55S 68.00W 224–6 4.0W,3.1L
¶16989402
SJA Error ellipse: s-maj=4.5km s-min=10.1km az=-1.0.
SJA VI 18 10 40 41.9–.37 32.12S 68.80W 19–3 3.9W,1.9L
¶16989448
SJA Error ellipse: s-maj=0.9km s-min=1.7km az=-1.0.
ISC VI 21 12 16 00.5–1.7 32.68S–.05 69.81W–.05 124–11 40 1-7
SJA VI 21 12 15 58.8–.52 32.74S 69.84W 126–2 3.6W,3.6L **¶16989503**
ISCJB VI 21 12 15 59.6–.69 32.68S–.05 69.81W–.05 130–5 3.6W,3.6L
GUC VI 21 12 16 01.0–.33 32.44S 70.04W 102–5 3.9L,3.6L
ISC Event type ke.
SJA Error ellipse: s-maj=1.8km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.3km az=142.9.
GUC Error ellipse: s-maj=3.5km s-min=4.5km az=-1.0.
ISC VI 21 16 06 44.9–4.0 32.74S–.09 69.65W–.08 123–29 20 1-1
SJA VI 21 16 06 43.1–.83 32.72S 69.63W 130–8 3.4W,3.0L **¶16989506**
ISCJB VI 21 16 06 44.4–1.4 32.75S–.08 69.65W–.07 127–10 3.4W,3.0L
GUC VI 21 16 06 45.0–.49 32.63S 69.74W 121–8 3.1L,3.0L
ISC Event type ke.
SJA Error ellipse: s-maj=5.4km s-min=4.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=6.6km az=147.7.
GUC Error ellipse: s-maj=6.2km s-min=7.1km az=-1.0.
SJA VI 22 12 47 25.7–.72 32.92S 69.42W 4 3.9W,3.0L
¶16989520
SJA Error ellipse: s-maj=3.6km s-min=2.2km az=-1.0.
ISC VI 24 11 18 27.3–1.9 32.09S–.05 69.98W–.06 102–17 28 1-3
GUC VI 24 11 18 25.7–.56 32.25S 70.28W 142–9 3.2L **¶16989547**
ISCJB VI 24 11 18 26.6–1.0 32.09S–.05 69.98W–.07 108–12 3.2L
SJA VI 24 11 18 27.0–.81 32.04S 69.92W 98–6 3.5W,3.3L
ISC Event type ke.

GUC Error ellipse: s-maj=7.8km s-min=10.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.8km az=40.0.
SJA Error ellipse: s-maj=2.6km s-min=6.1km az=-1.0.
ISC VI 25 03 28 30.6–3.3 32.53S–.10 69.93W–.07 128–24 20 1-1
ISCJB VI 25 03 28 30.7–1.2 32.52S–.09 69.94W–.08 126–10 **¶16989555**
SJA VI 25 03 28 30.1–.55 32.48S 69.92W 126–5 3.4W,3.0L
GUC VI 25 03 28 31.5–.66 32.37S 69.88W 101–15 2.4L,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=6.2km az=147.8.
SJA Error ellipse: s-maj=3.9km s-min=3.8km az=-1.0.
GUC Error ellipse: s-maj=9.7km s-min=10.0km az=-1.0.
SJA VI 30 20 16 37.4–.37 32.05S 69.14W 19–1 3.6W,1.9L
¶16989727
SJA Error ellipse: s-maj=0.7km s-min=1.3km az=-1.0.

(141) Cordoba Province.

SJA I 09 18 26 24.0–1.0 30.43S 64.31W 14–999 3.5W,3.0L
¶601891012
SJA Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC I 19 10 52 52.0–.81 32.21S–.05 64.62W–.05 35 3.9b 40 1-151
IDC I 19 10 52 47.6–1.1 32.15S 64.60W 0 3.8,3.8L **¶16151840**
NEIC I 19 10 52 49.2–3.2 32.14S 64.59W 12–22 3.6,3.8L
SJA I 19 10 52 50.0–1.2 32.15S 64.71W 23–6 3.9,3.9L
ISCJB I 19 10 52 51.1–.50 32.21S–.04 64.60W–.05 33 3.8b,3.9L
ISC Event type fe.
NEIC Event type fe. Felt [III] in the Santa Rosa de Calamuchita area.
ISCJB Event type fe.
SJA VI 08 14 02 31.5–.62 30.51S 64.19W 222–10 3.7W,3.2L
¶16989274
SJA Error ellipse: s-maj=2.7km s-min=7.9km az=-1.0.
SJA VI 08 17 46 33.9–.60 30.51S 64.17W 242–11 3.6W,3.0L
¶16989280
SJA Error ellipse: s-maj=2.8km s-min=8.1km az=-1.0.
ISC VI 10 00 38 52.0–.72 30.97S–.06 65.63W–.07 178 3.4b 28 1-151
IDC VI 10 00 38 48.8–5.5 31.21S 65.62W 151–40 3.9,3.6 **¶16856831**
ISCJB VI 10 00 38 51.7–.45 30.95S–.04 65.62W–.06 178 3.4b,3.6
SJA VI 10 00 38 51.6–.67 30.99S 65.62W 186–5 3.8W,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=49.6km s-min=22.6km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=18.3.
SJA Error ellipse: s-maj=2.1km s-min=3.4km az=-1.0.

SEISMIC REGION 9.
Extreme South America.

(143) Off coast of southern Chile.

IDC I 02 21 24 20.7–23 40.35S 74.73W 0 3.9,3.8
¶17189249
IDC Error ellipse: s-maj=943.1km s-min=48.2km az=26.0.
IDC I 03 13 06 52.8–3.0 40.39S 75.67W 0 3.9,3.7L
¶17189325
IDC Error ellipse: s-maj=85.0km s-min=29.9km az=26.0.
ISC I 23 14 37 48.5–1.4 45.0S–.20 80.6W–.20 35 4.1b,4.0s 14 9-168
IDC I 23 14 37 42.8–1.4 45.08S 80.74W 0 4.5,4.3 **¶16020104**
NEIC I 23 14 37 44.4–.76 45.03S 80.70W 10 4.4b,4.3
ISCJB I 23 14 37 46.8–2.0 45.0S–.30 80.5W–.20 33 4.1b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 04 07 54 34.5–.52 45.59S–.05 76.65W–.05 17–2 5.3b,4.9s 559 3-177
GUC IV 04 07 54 27.5–.36 45.45S 76.72W 10 5.3W,4.9s **¶16506185**
ISCJB IV 04 07 54 32.0–1.8 45.58S–.04 76.61W–.04 10–10 5.2b,4.9s
IDC IV 04 07 54 31.0–.49 45.75S 76.72W 0 4.6,4.6s
NEIC IV 04 07 54 35.9–2.4 45.72S 76.61W 27–16 5.3b,4.6s
MOS IV 04 07 54 35.8–1.2 45.70S 76.65W 33 5.5b,4.6s
GCMT IV 04 07 54 35.8–.10 45.80S 77.04W 12 5.3W,4.6s
BJI IV 04 07 54 37.1 45.60S 76.60W 30 5.4s,5.2b
ISC Event type se.
GUC Error ellipse: s-maj=2.0km s-min=4.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=14.7.
IDC Error ellipse: s-maj=21.6km s-min=13.8km az=91.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=5.4km az=73.0.
MOS Error ellipse: s-maj=25.6km s-min=10.3km az=96.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c112; s119,c206; Duration: 1≤1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.12±.02 $M_{\theta\theta}$0.11±.01; $M_{\phi\phi}$1.01±.02; $M_{r\theta}$0.28±.05; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$-0.52±.05; Best double couple: NP1:ϕ_s341.00000°,δ59.00000°,λ-97.00000°. NP2:ϕ_s174.00000°,δ32.00000°,λ-79.00000°. Principal axes: T 1.1920,Plg14.0000°,Azm76.0000°; N 0.0850,Plg6.0000°,Azm344.0000°; P -1.2750,Plg75.0000°,Azm231.0000° $M_0$1.23300×10^{17}
ISC IV 30 03 01 59.1–3.6 44.8S–.50 80.2W–.10 17 4.0b,3.7s 10 8-119
IDC IV 30 03 01 58.6–5.4 44.49S 80.23W 0 4.3,4.1 **¶16577922**
NEIC IV 30 03 01 59.7–3.7 44.59S 80.11W 10 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=116.4km s-min=36.9km az=176.0.
NEIC Event type se. Error ellipse: s-maj=74.0km s-min=18.5km az=188.0.
IDC IV 30 07 27 23.0–2.8 42.85S 75.45W 0 4.1,4.1
¶17202445
IDC Error ellipse: s-maj=165.1km s-min=43.4km az=141.0.
IDC V 31 10 25 32.5–4.5 44.24S 80.35W 0 4.4,4.3b
¶17204825
IDC Error ellipse: s-maj=101.3km s-min=42.9km az=173.0.

(144) Southern Chile.

ISC II 21 05 38 47.0–.26 45.74S–.04 72.40W–.06 10 5.3b,4.7s 797 0-178
GUC II 21 05 38 42.6–.73 45.91S 73.20W 17–6 4.9L,4.7s **¶16168884**
IDC II 21 05 38 44.8–.42 45.85S 72.48W 0 4.9,4.9b
ISCJB II 21 05 38 45.7–.17 45.76S–.04 72.27W–.07 10 5.3b,4.7s
MOS II 21 05 38 50.2–1.0 45.66S 72.71W 33 5.5b,4.7s
NEIC II 21 05 38 51.0–.91 45.76S 72.36W 37–7 5.3b,4.8s
BJI II 21 05 38 51.3 45.70S 72.30W 35 5.5s,5.3b
GCMT II 21 05 38 51.0–.40 46.02S 72.55W 18–1 5.0W,5.3b
ISC Event type fe.
GUC Error ellipse: s-maj=1.7km s-min=12.8km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=12.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=158.7.
MOS Error ellipse: s-maj=22.3km s-min=9.0km az=98.7.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=74.0. Felt [II] at Coihaique and Puerto Aisen.
GCMT Error ellipse: s-maj=6.7km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c30; s59,c75; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.22 $M_{\theta\theta}$1.94±.13; $M_{\phi\phi}$-0.43±.18; $M_{r\theta}$0.09±.28; $M_{\theta\phi}$1.59±.12; $M_{\phi r}$-3.72±.69; Best double couple: NP1:ϕ_s18.00000°,δ79.00000°,λ-121.00000°. NP2:ϕ_s271.00000°,δ32.00000°,λ-20.00000°. Principal axes: T 3.6340,Plg28.0000°,Azm132.0000°; N 1.2740,Plg30.0000°,Azm24.0000°; P -4.9150,Plg47.0000°,Azm256.0000° $M_0$4.27400×10^{16}
IDC II 21 06 33 55.2–2.7 46.18S 72.82W 0 4.0,3.8
¶17192620
IDC Error ellipse: s-maj=65.7km s-min=52.1km az=144.0.
GUC III 22 00 46 56.5–.36 44.97S 72.93W 5–4 3.8L
¶601516920
GUC Error ellipse: s-maj=1.9km s-min=6.6km az=-1.0.

(145) Southern Chile-Argentina border region.

IDC I 03 00 57 12.5–3.6 38.04S 71.06W 0 3.6,3.6b
¶17189274
IDC Error ellipse: s-maj=119.5km s-min=29.6km az=89.0.
GUC I 10 01 40 48.4–.39 37.44S 71.22W 35–2 3.6L
¶601516107
GUC Error ellipse: s-maj=3.1km s-min=3.5km az=-1.0.
IDC V 14 13 52 07.5–1.6 40.90S 71.82W 0 4.2,4.2
¶17203612
IDC Error ellipse: s-maj=30.6km s-min=15.6km az=164.0.
ISC VI 01 11 14 53.0–.49 43.14S–.03 71.85W–.09 172–4 4.5b 156 0-175
ISCJB VI 01 11 14 52.3–.29 43.15S–.03 71.80W–.10 174–2 4.4b **¶16552976**
NEIC VI 01 11 14 52.6–.23 43.12S 71.79W 165 4.4b,4.4
GUC VI 01 11 14 53.4–.38 43.15S 72.03W 172–2 4.0W,3.9L
IDC VI 01 11 14 53.5–.66 43.14S 71.69W 174–5 4.7,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=4.2km az=2.9.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.2km az=91.0.
GUC Error ellipse: s-maj=1.0km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=7.9km az=100.0.
GUC VI 04 03 43 48.2–.47 40.46S 71.98W 20–5 3.9L
¶601517660
GUC Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
ISC VI 04 12 23 52.8–.49 40.37S–.06 71.95W–.05 10 4.8b,3.8s 55 1-160
SJA VI 04 12 23 48.9–.60 40.87S 73.16W 275–251 4.6L,3.8s **¶16725942**
GUC VI 04 12 23 49.9–.38 40.49S 72.09W 13–4 4.4L,3.8s
NEIC VI 04 12 23 49.0 40.49S 72.09W 13 4.8b,4.4L
ISCJB VI 04 12 23 52.4–.38 40.37S–.04 71.95W–.05 10 4.5b,3.9s
IDC VI 04 12 23 52.6–.82 40.19S 71.83W 0 4.3,4.1b
ISC Event type fe.
SJA Error ellipse: s-maj=49.4km s-min=67.7km az=-1.0.
GUC Error ellipse: s-maj=1.9km s-min=1.7km az=-1.0.
NEIC Event type fe. Felt [III] at Lago Ranco. After GUC.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=139.1.
IDC Error ellipse: s-maj=27.8km s-min=11.3km az=38.0.
ISC VI 04 13 05 07.3–2.0 40.5S–.30 72.0W–.20 35 3.8b 8 1-146
IDC VI 04 13 05 01.9–1.9 40.54S 72.19W 0 4.2,4.1 **¶17205208**
ISCJB VI 04 13 05 05.0–2.0 40.6S–.20 72.2W–.30 33 3.8b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 13 17 27.4–1.3 40.6S–.20 72.0W–.20 35 3.6b 10 1-157
IDC VI 04 13 17 21.5–1.4 40.68S 72.19W 0 5.3L,4.0 **¶17205209**
ISCJB VI 04 13 17 25.0–1.7 40.7S–.20 72.2W–.20 33 3.6b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 13 48 51.5–.45 40.35S–.07 71.93W–.07 35 4.7b 72 1-172
GUC VI 04 13 48 44.8–.42 40.59S 72.25W 16–4 4.1L **¶16577389**
IDC VI 04 13 48 46.1–.80 40.39S 72.06W 0 5.3L,4.6
NEIC VI 04 13 48 47.9–.26 40.43S 71.81W 10 4.7b,4.1L
ISCJB VI 04 13 48 50.4–.35 40.37S–.06 71.88W–.09 33 4.6b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 04 14 06 36.1–1.1 40.3S–.10 71.99W–.06 35 10 1-50
NEIC VI 04 14 06 32.0 40.40S 72.02W 5 4.4b,4.3L **¶17529478**
GUC VI 04 14 06 32.2–.74 40.40S 72.02W 5–6 4.3L,4.3L
ISCJB VI 04 14 06 35.0–.75 40.16S–.08 71.90W–.07 33 4.4b,4.3L
ISC Event type fe.
NEIC Event type fe. Felt [V] at Rio Bueno and [IV] at Lago Ranco. After GUC.
ISCJB Event type fe.
ISC VI 04 14 14 49.0–1.5 40.4S–.20 71.8W–.20 35 3.9b,3.9s 11 1-160
IDC VI 04 14 14 46.1–4.8 40.41S 71.97W 15–27 5.2L,4.1 **¶17205215**
ISCJB VI 04 14 14 47.2–1.9 40.4S–.20 72.0W–.30 33 3.9s,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 14 30 43.8–2.0 40.6S–.30 71.9W–.20 35 3.7b 7 1-146
IDC VI 04 14 30 38.1–2.2 40.65S 72.17W 0 5.5L,4.1 **¶17205218**
ISCJB VI 04 14 30 41.9–2.2 40.6S–.20 72.0W–.30 33 3.6b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 14 56 26.4–1.7 40.5S–.30 71.9W–.20 35 3.9b 9 1-146
ISCJB VI 04 14 56 24.1–2.0 40.6S–.20 72.1W–.30 33 3.8b **¶17205226**
IDC VI 04 14 56 24.0–4.5 40.47S 72.00W 18–26 5.4L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.6km s-min=18.1km az=136.2.
IDC Error ellipse: s-maj=42.3km s-min=16.1km az=28.0.
ISC VI 04 15 12 27.3–2.7 40.6S–.30 72.0W–.30 35 3.8b 6 1-77
IDC VI 04 15 12 21.0–2.7 40.79S 72.25W 0 5.2L,4.2 **¶17205231**
ISCJB VI 04 15 12 25.0–2.3 40.7S–.20 72.2W–.30 33 3.8b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 17 00 51.9–.46 40.40S–.05 71.95W–.09 35 4.7b,4.0s 80 1-175
GUC VI 04 17 00 43.9–.48 40.55S 72.19W 8–6 4.6L,4.0s **¶16577390**
IDC VI 04 17 00 47.8–.99 40.23S 71.91W 0 5.3L,4.4
NEIC VI 04 17 00 48.4–.36 40.36S 71.78W 10 4.7b,4.6L
ISCJB VI 04 17 00 50.2–.39 40.34S–.04 71.97W–.08 33 4.6b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 04 17 31 01.6–.93 40.52S–.08 71.9W–.10 35 3.8b 15 1-75
IDC VI 04 17 30 57.8–2.7 40.32S 71.98W 0 5.3L,4.0 **¶16856325**
NEIC VI 04 17 30 58.8–.72 40.49S 71.94W 10 4.4b,4.0
ISCJB VI 04 17 30 59.6–.67 40.49S–.06 72.02W–.09 33 3.8b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 04 17 43 18.9–1.7 40.3S–.10 71.6W–.20 35 3.3b 11 1-75
IDC VI 04 17 43 13.9–2.5 40.24S 71.80W 0 4.9L,3.9 **¶16856326**
NEIC VI 04 17 43 16.1–1.6 40.23S 71.51W 10 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=58.0km s-min=12.3km az=40.0.
NEIC Event type se. Error ellipse: s-maj=29.2km s-min=9.9km az=52.0.

(146) Southern Argentina.

IDC III 15 16 41 14.0–1.6 37.69S 70.74W 0 4.1L,4.0
¶17196189
IDC Error ellipse: s-maj=52.1km s-min=35.3km az=85.0.
ISC IV 24 05 28 19.4–.96 39.05S–.08 70.84W–.06 150 4.0b 28 2-145
ISCJB IV 24 05 28 18.6–.67 39.10S–.06 70.87W–.07 150 4.0b **¶16512050**
NEIC IV 24 05 28 19.0–1.1 39.10S 70.96W 156–10 4.3b
IDC IV 24 05 28 19.7–1.4 39.16S 70.78W 163–17 4.2,3.9
GUC IV 24 05 28 22.1–.59 39.01S 70.95W 135–27 4.5L,3.9
SJA IV 24 05 29 31.0–1.2 33.80S 69.06W 121–12 2.4,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=7.6km az=43.5.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=13.9km az=80.0.
IDC Error ellipse: s-maj=34.6km s-min=21.3km az=70.0.
GUC Error ellipse: s-maj=5.1km s-min=17.7km az=-1.0.
SJA Error ellipse: s-maj=16.8km s-min=18.7km az=-1.0.
IDC VI 04 18 39 02.3–584 39.67S 67.74W 0
¶17205246
IDC Error ellipse: s-maj=246.6km s-min=216.6km az=119.0.
IDC VI 05 02 16 54.7–999 39.35S 68.57W 0
¶17205270
IDC Error ellipse: s-maj=647.0km s-min=207.1km az=19.0.
IDC VI 06 01 10 07.0–479 41.74S 69.44W 0
¶17205374
IDC Error ellipse: s-maj=207.0km s-min=186.3km az=74.0.
ISC VI 23 06 36 04.0–.41 37.60S–.03 70.81W–.05 165–3 4.7b 646 0-176
SJA VI 23 06 35 57.4–.95 37.56S 72.23W 185–14 4.7W,4.1L **¶16646396**
ISCJB VI 23 06 36 02.1–.33 37.58S–.03 70.64W–.05 156–2 4.7b,4.1L
BJI VI 23 06 36 04.1 37.60S 70.60W 160 5.1b,4.1L
NEIC VI 23 06 36 04.6–.16 37.58S 70.48W 168 4.7b,4.1L
IDC VI 23 06 36 04.5–.62 37.79S 70.69W 171–5 4.8,4.4
GUC VI 23 06 36 05.1–.73 37.70S 70.81W 125–11 4.7L,4.4
ISC Event type fe.
SJA Error ellipse: s-maj=4.4km s-min=47.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=172.5.

NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=80.0. Felt [IV] at Angol, Cobquecura and Puerto Saavedra; [III] at Concepcion, Coronel, Lota, Penco, San Pedro de la Paz, Talcahuano and Tome; [II] at Constitucion and Talca. Also felt at Chillan.
IDC Error ellipse: s-maj=15.0km s-min=7.7km az=90.0.
GUC Error ellipse: s-maj=2.0km s-min=6.2km az=-1.0.

SEISMIC REGION 10.
Southern Antilles.

(149) Drake Passage.

ISC	**III**	**17 03 47 20.2–1.0**	**55.1S–.20**	**64.58W–.09**	**10**	**3.9b**	**10**	**2-135**
ISCJB	III	17 03 47 18.7–.88	55.1S–.10	64.6W–.10	10	3.9b		¶17196608
IDC	III	17 03 47 19.3–1.0	54.94S	64.47W	0	5.3L,4.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=21.6km s-min=11.7km az=5.5.							
IDC	Error ellipse: s-maj=32.4km s-min=13.5km az=1.0.							

(150) Scotia Sea.

ISC	**I**	**02 08 16 24.0–.80**	**60.23S–.10**	**35.0W–.20**	**10**	**4.3b**	**12**	**6-150**
IDC	I	02 08 16 22.4–.96	60.29S	35.09W	0	4.3b,4.2		¶16007507
ISCJB	I	02 08 16 23.3–.73	60.3S–.10	34.7W–.30	10	4.1b,4.2		
NEIC	I	02 08 16 23.8–.79	60.38S	34.71W	10	4.3b,4.2		
ISC	Event type se.							
IDC	Error ellipse: s-maj=36.4km s-min=26.1km az=66.0.							
ISCJB	Event type se. Error ellipse: s-maj=21.1km s-min=11.8km az=145.8.							
NEIC	Event type se. Error ellipse: s-maj=22.8km s-min=16.6km az=54.0.							
ISC	**II**	**06 21 39 56.9–.52**	**59.93S–.06**	**58.7W–.10**	**10**	**4.9b,3.6s**	**34**	**5-165**
ISCJB	II	06 21 39 55.4–.51	59.84S–.06	58.6W–.20	10	4.8b,3.5s		¶16342588
IDC	II	06 21 39 55.9–.94	59.89S	58.45W	0	5.6L,4.4		
NEIC	II	06 21 39 58.5–.99	59.84S	58.62W	18–6	4.8b,4.4		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=13.7km s-min=8.4km az=166.8.							
IDC	Error ellipse: s-maj=36.8km s-min=18.6km az=66.0.							
NEIC	Event type se. Error ellipse: s-maj=14.9km s-min=9.7km az=81.0.							
IDC	**IV**	**10 03 24 35.8–1.8**	**60.81S**	**45.90W**	**0**	**3.8,3.7**		
								¶17200412
IDC	Error ellipse: s-maj=94.6km s-min=42.7km az=34.0.							
ISC	**V**	**20 06 53 15.2–.46**	**60.50S–.08**	**44.15W–.07**	**10**	**4.3b,3.8s**	**33**	**7-152**
ISCJB	V	20 06 53 13.6–.43	60.51S–.07	44.0W–.10	10	4.3b,3.7s		¶16591598
IDC	V	20 06 53 13.4–.66	60.61S	44.25W	0	5.3L,4.4		
NEIC	V	20 06 53 16.2–4.0	60.47S	44.08W	17–25	4.8b,4.4		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=11.2km s-min=9.4km az=145.9.							
IDC	Error ellipse: s-maj=24.9km s-min=16.3km az=41.0.							
NEIC	Event type se. Error ellipse: s-maj=10.6km s-min=9.4km az=58.0.							
ISC	**V**	**22 20 14 04.1–.78**	**60.23S–.09**	**45.5W–.10**	**10**	**3.9b**	**20**	**8-160**
IDC	V	22 20 14 02.9–.77	60.02S	45.25W	0	4.1,4.0b		¶16535855
ISCJB	V	22 20 14 03.4–.85	60.17S–.07	45.4W–.20	10	3.8b,3.3s		
NEIC	V	22 20 14 10.3–1.9	60.11S	45.26W	57–16	4.2b,3.3s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=36.6km s-min=25.6km az=65.0.							
ISCJB	Event type se. Error ellipse: s-maj=15.6km s-min=9.2km az=17.5.							
NEIC	Event type se. Error ellipse: s-maj=18.2km s-min=12.5km az=72.0.							

(151) South Georgia Island region.

IDC	**I**	**30 10 48 30.1–1.6**	**55.58S**	**31.05W**	**0**	**4.2,4.2b**		
								¶17191313
IDC	Error ellipse: s-maj=96.8km s-min=46.2km az=120.0.							
IDC	**II**	**22 19 41 53.5–11**	**55.71S**	**32.72W**	**0**	**3.7,3.7**		
								¶17192722
IDC	Error ellipse: s-maj=666.1km s-min=76.2km az=150.0.							
ISC	**VI**	**24 19 28 56.2–.34**	**54.75S–.08**	**31.28W–.07**	**10**	**5.1b,3.7s**	**106**	**3-158**
ISCJB	VI	24 19 28 53.9–.35	54.67S–.07	31.1W–.10	10	4.9b,3.7s		¶16681345
IDC	VI	24 19 28 54.4–.58	54.71S	31.01W	0	4.8,4.7b		
NEIC	VI	24 19 28 56.0–.23	54.69S	31.09W	10	5.2b,4.7b		
BJI	VI	24 19 28 58.0	54.70S	31.20W	15	5.4s,5.3b		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=10.7km s-min=7.4km az=38.3.							
IDC	Error ellipse: s-maj=21.0km s-min=18.2km az=48.0.							
NEIC	Event type se. Error ellipse: s-maj=10.7km s-min=6.9km az=214.0.							

(153) South Sandwich Islands region.

ISC	**I**	**02 09 23 08.9–.38**	**59.57S–.09**	**24.63W–.09**	**10**	**4.9b,4.0s**	**82**	**13-156**
ISCJB	I	02 09 23 06.3–.36	59.71S–.06	24.5W–.10	10	4.8b,4.0s		¶15902803
IDC	I	02 09 23 07.5–.50	59.48S	24.56W	0	4.6,4.6b		
NEIC	I	02 09 23 13.5–.30	59.41S	24.47W	35	5.1b,4.6b		
BJI	I	02 09 23 14.3	59.20S	24.50W	30	5.4b,5.4s		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=11.5km s-min=7.3km az=140.3.							
IDC	Error ellipse: s-maj=20.4km s-min=14.9km az=52.0.							
NEIC	Event type se. Error ellipse: s-maj=14.1km s-min=9.7km az=202.0.							
IDC	**I**	**02 14 19 21.4–1.9**	**56.92S**	**25.03W**	**0**	**4.2,4.0**		
								¶17189223
IDC	Error ellipse: s-maj=81.5km s-min=42.3km az=7.0.							
ISC	**I**	**05 02 12 25.4–.66**	**56.5S–.20**	**26.7W–.20**	**10**	**4.2b**	**17**	**18-151**
ISCJB	I	05 02 12 23.6–.70	56.5S–.10	26.7W–.30	10	4.2b		¶15981218
IDC	I	05 02 12 24.1–.92	56.52S	26.50W	0	4.1,3.9		
NEIC	I	05 02 12 29.3–.39	56.57S	26.77W	35	4.3b,3.9		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=24.2km s-min=14.2km az=140.9.							
IDC	Error ellipse: s-maj=41.6km s-min=31.8km az=86.0.							
NEIC	Event type se. Error ellipse: s-maj=18.0km s-min=11.1km az=47.0.							
ISC	**I**	**05 06 06 00.2–.54**	**56.32S–.09**	**27.34W–.09**	**112**	**4.2b**	**28**	**6-151**
ISCJB	I	05 06 05 59.0–.59	56.36S–.09	27.3W–.20	112	4.3b		¶16032744
NEIC	I	05 06 06 00.9–1.5	56.36S	27.39W	116–13	4.7b		
IDC	I	05 06 06 01.3–2.5	56.35S	27.43W	117–21	4.2,3.9		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=19.3km s-min=9.0km az=145.0.							
NEIC	Event type se. Error ellipse: s-maj=16.6km s-min=8.0km az=57.0.							
IDC	Error ellipse: s-maj=22.5km s-min=13.9km az=65.0.							
ISC	**I**	**05 06 18 21.5–.50**	**59.7S–.10**	**26.1W–.10**	**10**	**4.3b**	**33**	**13-153**
ISCJB	I	05 06 18 19.8–.49	59.74S–.08	26.2W–.20	10	4.3b		¶15908120
IDC	I	05 06 18 19.7–.57	59.73S	26.19W	0	4.9L,4.4		
NEIC	I	05 06 18 23.1–4.5	59.69S	26.23W	21–31	4.4b,4.4		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=15.4km s-min=8.7km az=145.3.							
IDC	Error ellipse: s-maj=25.1km s-min=18.7km az=26.0.							
NEIC	Event type se. Error ellipse: s-maj=16.5km s-min=10.7km az=220.0.							
ISC	**I**	**05 20 44 36.6–.99**	**57.4S–.20**	**24.5W–.30**	**10**	**4.0b**	**7**	**15-152**
ISCJB	I	05 20 44 35.0–1.1	57.4S–.20	24.4W–.50	10	3.9b		¶17189537
IDC	I	05 20 44 35.4–1.9	57.38S	24.44W	0	4.2,4.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=43.5km s-min=17.5km az=149.7.							
IDC	Error ellipse: s-maj=74.3km s-min=38.3km az=9.0.							
ISC	**I**	**06 02 25 14.5–.69**	**56.0S–.10**	**27.7W–.20**	**112**	**4.2b**	**18**	**17-151**
ISCJB	I	06 02 25 13.1–.84	56.0S–.10	27.6W–.40	112	4.3b		¶17189563
IDC	I	06 02 25 16.0–6.5	56.00S	27.72W	124–59	4.4,4.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=32.6km s-min=12.6km az=151.8.							
IDC	Error ellipse: s-maj=29.0km s-min=17.5km az=54.0.							
ISC	**I**	**06 11 14 27.1–.78**	**57.3S–.10**	**26.0W–.20**	**65**	**4.4b**	**12**	**17-151**
IDC	I	06 11 14 18.6–.74	57.26S	25.83W	0	4.3,4.3b		¶17189591
ISCJB	I	06 11 14 25.6–.89	57.4S–.10	26.0W–.40	65	4.3b,4.3b		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**07 09 45 21.8–.37**	**59.23S–.09**	**25.97W–.10**	**70**	**4.8b**	**76**	**8-155**
NEIC	I	07 09 45 17.0–2.9	59.18S	25.95W	30–20	4.7b		¶16031127
ISCJB	I	07 09 45 20.0–.38	59.28S–.07	25.9W–.10	70	4.6b		
IDC	I	07 09 45 20.4–.68	59.14S	26.03W	55–5	4.8,4.6		
ISC	Event type se.							
NEIC	Event type se. Error ellipse: s-maj=12.2km s-min=7.9km az=51.0.							
ISCJB	Event type se. Error ellipse: s-maj=12.4km s-min=6.8km az=137.3.							
IDC	Error ellipse: s-maj=15.4km s-min=11.9km az=57.0.							
IDC	**I**	**07 20 00 49.9–1.1**	**57.65S**	**25.77W**	**57–8**	**3.7,3.5**		
								¶17189656
IDC	Error ellipse: s-maj=58.7km s-min=40.3km az=98.0.							
ISC	**I**	**07 20 29 36.3–.70**	**56.0S–.10**	**27.9W–.20**	**121**	**4.2b**	**18**	**17-151**
ISCJB	I	07 20 29 34.8–.69	55.9S–.10	27.8W–.30	121	4.2b		¶15909685
NEIC	I	07 20 29 35.4–4.3	55.98S	27.82W	115–38	4.1b		
IDC	I	07 20 29 39.9–6.3	55.97S	27.91W	150–57	4.4,4.1		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=27.0km s-min=11.9km az=160.7.							
NEIC	Event type se. Error ellipse: s-maj=23.1km s-min=13.7km az=69.0.							
IDC	Error ellipse: s-maj=31.6km s-min=18.5km az=91.0.							
ISC	**I**	**10 15 11 40.9–.73**	**59.2S–.10**	**25.5W–.20**	**10**	**4.1b,3.4s**	**16**	**14-153**
ISCJB	I	10 15 11 39.3–1.0	59.3S–.10	25.6W–.40	10	4.1b,3.3s		¶17189864
IDC	I	10 15 11 39.6–.70	59.11S	25.71W	0	4.3,4.2b		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=32.7km s-min=15.7km az=149.1.							
IDC	Error ellipse: s-maj=35.7km s-min=24.8km az=92.0.							
IDC	**I**	**12 02 27 46.9–1.9**	**58.18S**	**25.13W**	**0**	**3.5,3.5**		
								¶17189963
IDC	Error ellipse: s-maj=105.0km s-min=74.2km az=132.0.							
ISC	**I**	**13 03 47 23.2–.67**	**55.9S–.20**	**27.7W–.20**	**10**	**4.8b**	**20**	**17-151**
IDC	I	13 03 47 21.7–.61	55.96S	27.80W	0	4.6,4.6b		¶15931415
ISCJB	I	13 03 47 22.2–.63	55.9S–.10	27.7W–.20	10	4.6b,4.6b		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**I**	**14 08 55 23.2–1.8**	**58.84S**	**25.42W**	**0**	**3.9,3.9**		
								¶17190147
IDC	Error ellipse: s-maj=99.8km s-min=69.0km az=134.0.							
IDC	**I**	**14 21 46 16.5–1.3**	**58.53S**	**25.71W**	**0**	**4.0,3.9b**		
								¶17190215
IDC	Error ellipse: s-maj=85.8km s-min=47.3km az=99.0.							
ISC	**I**	**15 03 31 08.0–.48**	**59.2S–.10**	**25.5W–.10**	**10**	**4.4b**	**43**	**14-166**
ISCJB	I	15 03 31 06.3–.50	59.25S–.08	25.5W–.20	10	4.3b		¶15931041
IDC	I	15 03 31 06.5–.66	59.21S	25.64W	0	4.3,4.3b		
NEIC	I	15 03 31 09.1–4.3	59.24S	25.52W	18–26	4.4b,4.3b		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=16.2km s-min=9.0km az=148.1.							
IDC	Error ellipse: s-maj=28.9km s-min=23.9km az=30.0.							
NEIC	Event type se. Error ellipse: s-maj=12.4km s-min=8.1km az=210.0.							
IDC	**I**	**16 18 03 57.5–1.1**	**58.65S**	**25.78W**	**0**	**4.1,4.1b**		
								¶17190344
IDC	Error ellipse: s-maj=74.4km s-min=47.0km az=104.0.							
ISC	**I**	**16 21 22 20.6–.47**	**55.92S–.10**	**27.91W–.08**	**112**	**4.5b**	**52**	**5-151**
ISCJB	I	16 21 22 18.9–.43	55.92S–.07	27.7W–.10	112	4.6b		¶15931546
NEIC	I	16 21 22 20.4–1.2	55.93S	27.76W	109–10	4.6b		
IDC	I	16 21 22 20.9–5.5	55.92S	27.68W	111–49	4.6,4.3b		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=12.6km s-min=8.7km az=147.3.							
NEIC	Event type se. Error ellipse: s-maj=10.3km s-min=7.3km az=58.0.							
IDC	Error ellipse: s-maj=20.3km s-min=16.9km az=61.0.							
IDC	**I**	**16 21 24 27.8–1.8**	**56.30S**	**27.97W**	**0**	**3.9,3.9**		
								¶17190352
IDC	Error ellipse: s-maj=92.9km s-min=65.3km az=150.0.							
ISC	**I**	**18 14 46 14.0–.26**	**57.31S–.07**	**27.05W–.06**	**150**	**5.1b**	**219**	**6-174**
NEIC	I	18 14 46 12.2–.18	57.19S	26.92W	130	5.2b		¶15937924
GCMT	I	18 14 46 12.2–.30	57.37S	26.71W	140–3	5.0W		
ISCJB	I	18 14 46 13.1–.31	57.17S–.06	26.98W–.10	150	5.0b		
MOS	I	18 14 46 13.4–1.1	57.24S	27.04W	146	5.2b		
IDC	I	18 14 46 13.4–.66	57.17S	26.97W	138–5	5.3,5.0		
BJI	I	18 14 46 15.0	57.20S	27.00W	155	5.3b,5.0		
ISC	Event type se.							
NEIC	Event type se. Error ellipse: s-maj=8.4km s-min=5.9km az=204.0.							
GCMT	Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s78,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.49±.18 $M_{\theta\theta}$-0.88±.26; $M_{\phi\phi}$3.38±.27; $M_{r\theta}$0.50±.15; $M_{\theta\phi}$-0.79±.25; $M_{\phi r}$-3.43±.15; Best double couple: NP1:ϕ_s352.00000°,δ70.00000°,λ-88.00000°. NP2:ϕ_s167.00000°,δ21.00000°,λ-94.00000°. Principal axes: T 5.1010,Plg25.0000°,Azm80.0000°; N -1.0210,Plg2.0000°,Azm171.0000°; P -4.0740,Plg65.0000°,Azm265.0000° $M_0$4.58800×10^{16}							
ISCJB	Event type se. Error ellipse: s-maj=9.5km s-min=6.7km az=31.6.							
MOS	Error ellipse: s-maj=27.5km s-min=12.6km az=104.7.							
IDC	Error ellipse: s-maj=13.6km s-min=10.7km az=43.0.							
ISC	**I**	**20 00 58 00.0–.84**	**60.9S–.20**	**26.4W–.20**	**26**	**4.3b**	**11**	**12-153**
ISCJB	I	20 00 57 57.1–.77	61.0S–.10	26.4W–.50	26	4.3b,3.3s		¶15954496
IDC	I	20 00 57 58.7–1.7	60.24S	26.46W	0	4.4,4.4b		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=37.7km s-min=10.6km az=152.1.							
IDC	Error ellipse: s-maj=59.6km s-min=32.9km az=10.0.							
ISC	**I**	**20 03 44 21.7–.24**	**59.91S–.06**	**27.53W–.06**	**93**	**5.2b**	**263**	**7-177**
MOS	I	20 03 44 18.1–.95	59.93S	27.43W	72	5.3b,4.2s		¶15940674
ISCJB	I	20 03 44 20.3–.24	59.93S–.05	27.39W–.09	93	5.2b,4.2s		
IDC	I	20 03 44 20.7–.64	59.91S	27.47W	83–5	5.2,4.9		
GCMT	I	20 03 44 25.8–.20	60.22S	26.84W	73–1	5.2W,4.9		
NEIC	I	20 03 44 25.8–1.1	59.94S	27.48W	130–9	5.2b,4.9		
ISC	Event type se.							
MOS	Error ellipse: s-maj=27.0km s-min=12.0km az=104.6.							
ISCJB	Event type se. Error ellipse: s-maj=8.2km s-min=5.0km az=40.5.							
IDC	Error ellipse: s-maj=13.6km s-min=9.9km az=43.0.							
GCMT	Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c132; s101,c169; Duration: 1§0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53±.02 $M_{\theta\theta}$-0.01±.02; $M_{\phi\phi}$0.53±.02; $M_{r\theta}$-0.56±.01; $M_{\theta\phi}$-0.32±.02; $M_{\phi r}$-0.39±.01; Best double couple: NP1:ϕ_s11.00000°,δ64.00000°,λ-50.00000°. NP2:ϕ_s128.00000°,δ47.00000°,λ-142.00000°. Principal axes: T 0.7030,Plg10.0000°,Azm73.0000°; N 0.3440,Plg35.0000°,Azm170.0000°; P -1.0470,Plg53.0000°,Azm330.0000° $M_0$0.87500×10^{17}							
NEIC	Event type se. Error ellipse: s-maj=7.8km s-min=6.0km az=222.0.							
IDC	**I**	**20 04 31 02.6–2.0**	**54.93S**	**27.96W**	**0**	**3.8,3.7**		
								¶17190602
IDC	Error ellipse: s-maj=80.9km s-min=46.3km az=5.0.							
ISC	**I**	**22 00 53 18.2–.71**	**59.9S–.20**	**24.0W–.20**	**10**	**4.3b**	**14**	**15-154**
ISCJB	I	22 00 53 16.4–.72	59.9S–.10	24.0W–.30	10	4.1b		¶16152053
IDC	I	22 00 53 17.1–1.9	59.73S	23.90W	0	3.8,3.8		
NEIC	I	22 00 53 18.2–.36	59.89S	23.98W	10	4.4b,3.8		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=28.5km s-min=13.8km az=142.9.							
IDC	Error ellipse: s-maj=107.6km s-min=65.1km az=139.0.							
NEIC	Event type se. Error ellipse: s-maj=16.5km s-min=8.3km az=50.0.							
ISC	**I**	**22 06 42 00.5–.78**	**56.0S–.10**	**27.5W–.10**	**112**	**4.2b**	**15**	**5-151**
ISCJB	I	22 06 41 59.3–.92	56.1S–.10	27.5W–.20	112	4.1b		¶16022173
NEIC	I	22 06 42 01.8–2.0	56.03S	27.52W	126–17	4.3b		
IDC	I	22 06 42 06.6–8.9	56.09S	27.59W	166–79	4.2,4.0		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=23.1km s-min=9.8km az=31.8.							
NEIC	Event type se. Error ellipse: s-maj=26.4km s-min=11.0km az=62.0.							
IDC	Error ellipse: s-maj=32.8km s-min=22.3km az=78.0.							
ISC	**I**	**23 22 52 58.2–.23**	**56.52S–.06**	**26.97W–.05**	**101**	**5.3b**	**329**	**6-162**
MOS	I	23 22 52 56.1–1.1	56.51S	26.92W	86	5.5b,4.1s		¶16019254
ISCJB	I	23 22 52 57.3–.22	56.44S–.04	26.94W–.08	101	5.2b,4.1s		
BJI	I	23 22 53 00.4	56.50S	26.90W	123	5.2b,4.1s		
GCMT	I	23 22 53 01.5–.20	56.66S	26.74W	111–1	5.3W,4.1s		
NEIC	I	23 22 53 01.5–.50	56.47S	26.96W	124–4	5.3b,4.1s		
IDC	I	23 22 53 01.5–.85	56.48S	26.91W	125–6	5.2,4.8		
ISC	Event type se.							
MOS	Error ellipse: s-maj=21.3km s-min=11.0km az=99.6.							
ISCJB	Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=139.2.							
GCMT	Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c93; s97,c156; Duration: 1§1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.17±.02 $M_{\theta\theta}$0.93±.03; $M_{\phi\phi}$-1.10±.02; $M_{r\theta}$-0.42±.01; $M_{\theta\phi}$-0.18±.02; $M_{\phi r}$0.16±.02; Best double couple: NP1:ϕ_s323.00000°,δ77.00000°,λ22.00000°. NP2:ϕ_s228.00000°,δ69.00000°,λ166.00000°. Principal axes:							

T 1.1380,Plg24.0000°,Azm186.0000°; N -0.0150,Plg65.0000°,Azm352.0000° ; P -1.1280,Plg6.0000°,Azm94.0000° $M_0$1.13300×10^{17}

NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.6km az=49.0.
IDC Error ellipse: s-maj=10.9km s-min=8.1km az=35.0.
ISC I 24 00 18 59.0–1.4 58.2S–.20 26.1W–.50 10 4.2b 11 15-152
IDC I 24 00 18 54.1–1.6 58.77S 26.14W 0 4.2,4.2 **¶16135644**
ISCJB I 24 00 18 56.5–.72 58.10S–.08 25.9W–.30 10 4.1b,4.2
NEIC I 24 00 19 00.8–.63 58.30S 26.04W 35 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=68.8km s-min=48.9km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=20.4km s-min=10.8km az=163.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=15.9km az=217.0.
IDC I 26 06 09 14.8–21 57.90S 25.95W 0 3.8,3.8
¶17191013
IDC Error ellipse: s-maj=1346.0km s-min=71.6km az=141.0.
ISC I 28 22 00 44.6–.42 55.38S–.10 27.95W–.07 26 4.4b,3.7s 45 5-152
IDC I 28 22 00 40.6–.61 55.40S 27.85W 0 4.5,4.4b **¶16136074**
ISCJB I 28 22 00 42.7–.39 55.36S–.07 27.99W–.10 26 4.5b,3.8s
NEIC I 28 22 00 43.1–2.9 55.39S 27.87W 17–17 4.4b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=17.8km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.8km az=30.3.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=222.0.
ISC I 28 22 07 31.7–.51 55.48S–.09 27.89W–.09 26 4.4b 28 5-151
IDC I 28 22 07 28.0–.69 55.44S 27.90W 0 4.5,4.4 **¶16136076**
ISCJB I 28 22 07 29.9–.45 55.45S–.08 27.9W–.10 26 4.3b,4.4
NEIC I 28 22 07 30.9–4.6 55.44S 27.90W 20–28 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=18.5km az=15.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.8km az=40.6.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.9km az=217.0.
ISC I 28 22 18 56.0–.79 55.4S–.20 28.0W–.10 26 3.9b 10 5-151
IDC I 28 22 18 52.4–1.0 55.35S 27.74W 0 4.2,4.0 **¶16136077**
NEIC I 28 22 18 53.8–.44 55.36S 27.91W 10 4.1b,4.0
ISCJB I 28 22 18 54.2–.81 55.4S–.10 28.0W–.20 26 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 29 03 31 30.4–1.2 55.27S 27.68W 0 4.2,3.9
¶17191229
IDC Error ellipse: s-maj=92.4km s-min=34.8km az=101.0.
IDC I 29 04 32 39.8–1.0 55.30S 27.71W 0 4.0,3.8
¶17191232
IDC Error ellipse: s-maj=44.3km s-min=31.9km az=81.0.
IDC I 29 07 24 48.7–1.0 55.42S 27.20W 0 4.2,4.0
¶17191243
IDC Error ellipse: s-maj=46.2km s-min=33.7km az=89.0.
ISC I 29 10 23 38.1–.42 55.33S–.10 27.89W–.10 26 4.7b,4.0s 61 5-159
IDC I 29 10 23 34.4–.65 55.26S 27.79W 0 4.7,4.6b **¶17208857**
ISCJB I 29 10 23 36.0–.49 55.31S–.07 27.9W–.10 26 4.7b,4.0s
NEIC I 29 10 23 35.9–.26 55.32S 27.84W 10 4.8b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=18.9km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=9.2km az=145.1.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.6km az=214.0.
IDC I 29 18 58 23.0–1.2 56.50S 25.14W 0 4.4,4.3b
¶17191265
IDC Error ellipse: s-maj=53.8km s-min=32.5km az=27.0.
ISC I 29 23 01 22.5–.53 56.99S–.10 25.1W–.10 22 4.2b 31 7-153
IDC I 29 23 01 19.3–.63 56.95S 25.05W 0 4.3,4.2 **¶16136148**
ISCJB I 29 23 01 20.7–.50 57.00S–.08 25.2W–.20 22 4.3b,4.2
NEIC I 29 23 01 20.6–3.6 56.98S 25.07W 10–22 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=17.0km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=7.9km az=143.8.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=5.6km az=48.0.
ISC I 29 23 09 04.9–1.8 57.1S–.40 25.2W–.20 22 4.1b 11 22-152
IDC I 29 23 09 02.0–2.5 56.91S 25.06W 0 4.6,4.3 **¶16136149**
ISCJB I 29 23 09 03.2–2.3 57.0S–.40 25.2W–.30 22 4.2b,4.3
NEIC I 29 23 09 07.0–.96 57.01S 25.20W 35 4.1b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=87.6km s-min=40.3km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=62.4km s-min=19.3km az=174.5.
NEIC Event type se. Error ellipse: s-maj=29.7km s-min=13.8km az=172.0.
ISC I 30 00 22 44.0–.70 57.1S–.10 25.1W–.20 22 4.2b 16 16-152
IDC I 30 00 22 40.1–1.7 57.13S 24.96W 0 4.5,4.3 **¶15990261**
ISCJB I 30 00 22 42.3–.58 57.04S–.09 25.1W–.30 22 4.3b,4.3
NEIC I 30 00 22 45.6–.44 57.09S 25.06W 35 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=65.1km s-min=38.2km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=23.3km s-min=10.0km az=154.3.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=10.5km az=57.0.
ISC I 30 02 00 39.2–.50 60.7S–.10 26.8W–.10 19 4.5b 40 13-154
ISCJB I 30 02 00 37.0–.42 60.68S–.08 26.8W–.20 19 4.5b,3.7s **¶15990262**
IDC I 30 02 00 37.2–1.3 60.42S 26.74W 0 4.4b,4.4
NEIC I 30 02 00 42.7–.35 60.31S 26.77W 35 4.6b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=8.0km az=137.4.
IDC Error ellipse: s-maj=52.1km s-min=19.3km az=5.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=8.7km az=189.0.
ISC I 31 11 20 41.6–1.7 56.8S–.50 24.9W–.30 22 4.4b 9 38-152
IDC I 31 11 20 38.2–1.6 56.80S 24.83W 0 4.6,4.4 **¶17191401**
ISC Event type ke.
IDC Error ellipse: s-maj=74.4km s-min=31.3km az=14.0.
IDC II 01 07 58 53.9–1.1 55.15S 26.93W 0 4.2,4.0
¶17191465
IDC Error ellipse: s-maj=73.5km s-min=37.6km az=98.0.
ISC II 01 15 32 04.6–.78 60.4S–.20 30.9W–.30 10 4.2b,3.6s 15 14-153
ISCJB II 01 15 32 02.9–.79 60.4S–.10 30.8W–.50 10 4.2b,3.6s **¶16024680**
IDC II 01 15 32 03.1–1.1 60.37S 30.83W 0 4.3,4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.1km s-min=10.5km az=150.9.
IDC Error ellipse: s-maj=49.1km s-min=32.5km az=28.0.
ISC II 01 20 29 23.4–.53 55.7S–.10 28.03W–.08 26 4.5b 26 5-151
IDC II 01 20 29 19.4–.67 55.72S 27.75W 0 5.1L,4.6 **¶16328620**
ISCJB II 01 20 29 21.5–.49 55.71S–.08 27.8W–.10 26 4.5b,3.3s
NEIC II 01 20 29 24.6–.34 55.67S 27.86W 35 4.6b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=21.6km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=10.0km az=41.5.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.8km az=216.0.
ISC II 02 00 35 02.5–.53 58.6S–.10 26.20W–.09 107 4.5b 34 16-150
ISCJB II 02 00 35 00.9–.44 58.52S–.09 26.2W–.10 107 4.5b **¶16337748**
NEIC II 02 00 35 05.5–1.7 58.52S 26.21W 137–8 4.8b
IDC II 02 00 35 07.9–6.3 58.61S 26.24W 159–59 4.4,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=10.2km az=18.9.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=7.5km az=196.0.
IDC Error ellipse: s-maj=19.3km s-min=17.1km az=111.0.
ISC II 02 15 17 45.1–.59 56.22S–.10 26.7W–.10 50 4.2b 24 6-150
ISCJB II 02 15 17 42.2–.57 56.16S–.08 26.7W–.20 50 4.2b **¶16012680**
NEIC II 02 15 17 46.9–.37 56.19S 26.80W 85 4.7b
IDC II 02 15 17 47.5–.68 56.13S 26.78W 86–6 4.3,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=10.6km az=138.1.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.8km az=9.0.
IDC Error ellipse: s-maj=21.2km s-min=17.1km az=157.0.
ISC II 03 06 40 38.9–.59 58.3S–.10 25.7W–.10 100 4.4b 22 15-152
NEIC II 03 06 40 36.8–.32 58.32S 25.82W 77 4.5b **¶16328661**
IDC II 03 06 40 36.8–.76 58.38S 25.87W 77–5 4.3,4.1
ISCJB II 03 06 40 37.4–.62 58.31S–.10 25.9W–.20 100 4.2b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 04 13 55 22.9–.59 59.8S–.10 26.5W–.10 26 4.3b 23 8-155
ISCJB II 04 13 55 21.4–.68 59.9S–.10 26.7W–.20 26 4.4b **¶16328699**
IDC II 04 13 55 36.0–4.9 59.77S 26.79W 142–44 4.2,3.9
NEIC II 04 13 55 36.1–2.2 59.78S 26.81W 145–19 4.7b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=14.7km az=44.6.
IDC Error ellipse: s-maj=22.6km s-min=15.8km az=38.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=13.3km az=53.0.
ISC II 05 17 09 10.7–1.0 55.6S–.20 26.9W–.30 25 4.5b 13 19-151
IDC II 05 17 09 07.0–.98 55.54S 26.67W 0 4.4,4.3 **¶16328728**
NEIC II 05 17 09 12.2–.58 55.58S 26.95W 35 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=54.4km s-min=27.2km az=53.0.
NEIC Event type se. Error ellipse: s-maj=33.4km s-min=12.1km az=61.0.
ISC II 06 10 40 48.6–.63 58.9S–.10 26.4W–.10 116 4.3b 20 16-152
ISCJB II 06 10 40 47.2–.65 58.8S–.10 26.4W–.20 116 4.3b **¶16024686**
IDC II 06 10 40 52.9–6.1 58.91S 26.41W 158–54 4.3,4.0
NEIC II 06 10 40 53.5–1.9 58.92S 26.40W 165–18 4.8b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=12.8km az=42.3.
IDC Error ellipse: s-maj=25.5km s-min=17.8km az=21.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.0km az=214.0.
IDC II 08 22 32 57.4–2.0 56.23S 27.67W 0 3.7,3.7
¶17191915
IDC Error ellipse: s-maj=105.5km s-min=80.8km az=140.0.
ISC II 11 01 49 46.7–.56 57.6S–.10 26.6W–.10 141 4.2b 32 15-153
IDC II 11 01 49 27.5–1.0 58.17S 26.68W 0 4.4,4.3 **¶16193671**
ISCJB II 11 01 49 45.4–.55 57.48S–.08 26.8W–.20 141 4.1b,4.3
NEIC II 11 01 49 45.4–2.5 57.83S 26.74W 139–23 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=42.9km s-min=20.5km az=2.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=9.8km az=152.3.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=11.3km az=201.0.
IDC II 11 09 38 55.8–2.3 54.87S 29.75W 0 4.2,4.1b
¶17192066
IDC Error ellipse: s-maj=109.5km s-min=44.3km az=177.0.
IDC II 11 12 29 10.7–7.7 57.81S 26.10W 0 3.8,3.8
¶17192077
IDC Error ellipse: s-maj=443.0km s-min=52.1km az=139.0.
ISC II 12 20 14 24.1–.94 60.6S–.10 23.5W–.20 10 4.3b 12 12-154
ISCJB II 12 20 14 22.9–1.0 60.6S–.10 23.3W–.50 10 4.2b **¶16339728**
IDC II 12 20 14 22.2–1.6 60.91S 24.10W 0 4.0,4.0b
NEIC II 12 20 14 27.9–.86 60.59S 23.37W 35 4.7b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=34.8km s-min=13.1km az=164.5.
IDC Error ellipse: s-maj=102.3km s-min=51.5km az=96.0.
NEIC Event type se. Error ellipse: s-maj=35.4km s-min=20.6km az=65.0.
IDC II 13 14 36 26.5–1.6 56.53S 27.45W 0 4.2,4.1
¶17192155
IDC Error ellipse: s-maj=71.3km s-min=43.9km az=1.0.
ISC II 13 18 48 01.6–.60 56.5S–.10 26.8W–.20 101 4.3b 19 18-151
IDC II 13 18 47 48.9–.60 56.45S 26.78W 0 4.5,4.5 **¶16398127**
ISCJB II 13 18 48 00.3–.64 56.4S–.10 26.8W–.30 101 4.4b,4.5
NEIC II 13 18 48 06.0–3.1 56.48S 26.87W 140–27 4.3b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=19.3km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=22.9km s-min=14.0km az=156.6.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=11.0km az=61.0.
IDC II 13 21 06 26.6–2.6 58.40S 25.29W 0 3.9,3.7
¶17192171
IDC Error ellipse: s-maj=102.2km s-min=49.7km az=169.0.
IDC II 15 06 18 10.5–1.8 55.94S 29.86W 0 3.6,3.6
¶17192287
IDC Error ellipse: s-maj=104.4km s-min=73.5km az=147.0.
ISC II 16 04 59 26.4–.92 56.1S–.20 27.4W–.30 112 4.0b 9 17-151
ISCJB II 16 04 59 25.2–.98 56.1S–.20 27.2W–.50 112 4.0b **¶17192341**
IDC II 16 04 59 33.6–10 56.06S 27.51W 174–96 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.1km s-min=16.9km az=157.9.
IDC Error ellipse: s-maj=35.5km s-min=25.3km az=80.0.
IDC II 17 23 20 54.9–2.2 55.49S 27.59W 0 3.5,3.5
¶17192449
IDC Error ellipse: s-maj=116.8km s-min=75.5km az=136.0.
ISC II 20 00 32 49.4–.92 58.7S–.20 26.7W–.30 100 4.0b 13 14-152
ISCJB II 20 00 32 48.3–2.1 58.6S–.10 26.9W–.80 100 3.9b **¶16057197**
IDC II 20 00 32 55.3–25 58.98S 26.17W 144–214 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=58.3km s-min=16.0km az=176.6.
IDC Error ellipse: s-maj=75.2km s-min=42.7km az=79.0.
IDC II 20 09 19 37.8–2.0 56.05S 27.01W 0 4.1,3.9
¶17192579
IDC Error ellipse: s-maj=81.2km s-min=39.8km az=13.0.
ISC II 20 17 37 41.2–.34 59.01S–.08 25.69W–.08 35 5.0b,4.0s 121 8-155
NEIC II 20 17 37 37.3–.27 58.98S 25.86W 10 5.0b,4.0s **¶16168880**
ISCJB II 20 17 37 39.3–.35 59.06S–.06 25.9W–.10 35 4.9b,4.1s
BJI II 20 17 37 39.6 58.90S 25.70W 24 5.4b,5.1s
IDC II 20 17 37 45.0–4.3 59.02S 25.74W 63–37 4.8,4.6b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.3km az=222.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.4km az=154.4.
IDC Error ellipse: s-maj=16.9km s-min=14.6km az=50.0.
IDC II 25 10 27 24.2–1.3 57.99S 25.53W 0 4.0,3.9
¶17192832
IDC Error ellipse: s-maj=50.2km s-min=44.6km az=35.0.
ISC III 02 06 41 23.6–1.7 57.9S–.20 28.2W–.50 100 5 15-151
IDC III 02 06 41 19.8–2.1 56.34S 27.52W 0 3.6,3.6 **¶17193113**
ISC Event type ke.
IDC Error ellipse: s-maj=112.7km s-min=79.8km az=141.0.
ISC III 03 05 41 23.5–.37 56.05S–.08 27.89W–.10 121 4.5b 72 17-158
NEIC III 03 05 41 22.4–.25 56.08S 27.93W 109 4.4b **¶16425223**
ISCJB III 03 05 41 22.3–.44 56.03S–.08 27.8W–.20 121 4.5b
IDC III 03 05 41 23.0–.65 56.01S 27.80W 113–5 4.5,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.6km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=8.0km az=146.5.
IDC Error ellipse: s-maj=16.1km s-min=12.3km az=39.0.
ISC III 06 14 32 36.9–.22 56.39S–.03 27.03W–.03 92–1 6.5b 1948 6-177
MOS III 06 14 32 31.4–.96 56.47S 27.14W 52 6.9b,6.1s **¶16196731**
BJI III 06 14 32 33.2 56.30S 27.10W 90 6.3b,6.3s
ISCJB III 06 14 32 34.8–.12 56.47S–.02 27.38W–.06 80 6.4b,6.3s
GCMT III 06 14 32 36.1–.10 56.41S 26.68W 101–0 6.5W,6.3s
NEIC III 06 14 32 36.1–.09 56.42S 27.06W 88 6.6b,6.5W
NEIC III 06 14 32 36.0–.00 56.41S 26.63W 86 6.6b,6.5W
IDC III 06 14 32 38.3–.35 56.39S 27.37W 101–2 6.1,5.9
NEIC III 06 14 32 50.5–.00 56.39S 26.59W 84 6.1,5.9
ISC Event type se.
MOS Error ellipse: s-maj=18.0km s-min=8.8km az=100.8.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=162.1.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s149,c396; s140,c611;Duration: 4^{s}5 Moment tensor: Scale 10^{18} Nm; M_{rr}2.86±.04 $M_{\theta\theta}$1.57±.04; $M_{\phi\phi}$-4.44±.04; $M_{r\theta}$-4.96±.03; $M_{\theta\phi}$1.31±.04; $M_{\phi r}$4.83±.03; Best double couple: NP1:ϕ_s318.00000°,δ78.00000°,λ69.00000°. NP2:ϕ_s201.00000° ,δ24.00000°,λ150.00000°. Principal axes: T 7.9280,Plg52.0000°,Azm204.0000° ; N 0.2320,Plg21.0000°,Azm322.0000°; P -8.1700,Plg30.0000°,Azm65.0000° $M_0$8.04900×10^{18}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.9km az=49.0. Moment Tensor Solution. $M_0$1.00000×10^{19} Moment Tensor Solution. s41 Moment tensor: Scale 10^{18}Nm; M_{rr}4.16 $M_{\theta\theta}$-1.85 $M_{\phi\phi}$-2.30 $M_{r\theta}$-3.70 $M_{\theta\phi}$1.92 $M_{\phi r}$3.96 Best double couple: NP1:ϕ_s139.00000° ,δ19.00000°,λ92.00000°. NP2:ϕ_s317.00000°,δ72.00000°,λ89.00000°. Principal axes:

T 6.8600,Plg63.0000°,Azm226.0000°; N -0.1400,Plg1.0000°,Azm317.0000°
; P -6.7100,Plg26.0000°,Azm48.0000° $M_0$6.80000×10^{18}

NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{18}Nm; M_{rr}3.33 $M_{\theta\theta}$1.34 $M_{\phi\phi}$-4.68 $M_{r\theta}$-4.98 $M_{\theta\phi}$1.95 $M_{\phi r}$4.93 Best double couple: NP1:ϕ_s318.00000° ,δ77.00000°,λ70.00000°. NP2:ϕ_s195.00000°,δ24.00000°,λ145.00000°. Principal axes: T 8.0400,Plg54.0000°,Azm203.0000°; N 0.6500,Plg19.0000°,Azm322.0000° ; P -8.6900,Plg28.0000°,Azm63.0000° $M_0$8.40000×10^{18}

IDC Error ellipse: s-maj=10.5km s-min=8.1km az=45.0.

NEIC Event type se. Moment Tensor Solution. s110 Moment tensor: Scale 10^{18}Nm; M_{rr}2.80 $M_{\theta\theta}$1.42 $M_{\phi\phi}$-4.22 $M_{r\theta}$-5.25 $M_{\theta\phi}$1.48 $M_{\phi r}$4.94 Best double couple: NP1:ϕ_s198.00000° ,δ22.00000°,λ150.00000°. NP2:ϕ_s316.00000°,δ79.00000°,λ70.00000°. Principal axes: T 8.1100,Plg52.0000°,Azm204.0000°; N 0.2700,Plg19.0000°,Azm320.0000° ; P -8.3700,Plg31.0000°,Azm63.0000° $M_0$8.20000×10^{18}

ISC III 06 14 38 35.2–.48 56.3S–.10 26.9W–.10 101 5.1b 37 18-152
NEIC III 06 14 38 34.2–.26 56.22S 26.74W 90 5.2b **¶16339073**
ISCJB III 06 14 38 34.8–.66 56.4S–.10 26.9W–.30 101 5.0b
IDC III 06 14 38 34.2–.60 56.22S 26.75W 87–5 5.2,4.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.9km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=14.8km az=157.2.
IDC Error ellipse: s-maj=23.3km s-min=17.5km az=68.0.
ISC III 06 14 46 50.5–.47 56.2S–.10 26.74W–.09 100 4.5b 35 18-151
NEIC III 06 14 46 49.9–.31 56.21S 26.70W 94 4.7b **¶16339074**
ISCJB III 06 14 46 49.2–.46 56.24S–.09 26.7W–.10 100 4.4b
IDC III 06 14 46 50.4–.58 56.19S 26.74W 95–4 4.6,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.0km az=19.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=11.2km az=14.1.
IDC Error ellipse: s-maj=16.3km s-min=11.7km az=8.0.
ISC III 06 16 53 33.7–.61 56.4S–.10 27.0W–.20 101 4.2b 24 17-151
ISCJB III 06 16 53 32.8–.92 56.4S–.10 26.8W–.50 101 4.2b **¶17193364**
IDC III 06 16 53 33.4–.71 56.40S 27.06W 96–5 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.5km s-min=14.5km az=158.0.
IDC Error ellipse: s-maj=29.7km s-min=23.5km az=81.0.
IDC III 07 03 47 27.2–.94 56.16S 26.53W 0 4.1,3.9
¶17193393
IDC Error ellipse: s-maj=31.6km s-min=30.8km az=153.0.
ISC III 07 23 35 41.4–.38 55.95S–.06 28.06W–.06 130–3 5.1b 379 5-176
MOS III 07 23 35 36.9–.91 55.99S 27.96W 96 5.2b **¶16268366**
BJI III 07 23 35 37.0 55.90S 27.90W 97 5.4b
ISCJB III 07 23 35 39.3–.24 55.94S–.05 27.95W–.09 121 5.0b
IDC III 07 23 35 40.7–.52 55.89S 27.88W 124–4 5.0,4.7b
GCMT III 07 23 35 41.9–.20 56.05S 27.59W 131–1 5.2W,4.7b
NEIC III 07 23 35 41.9–1.8 55.92S 27.94W 133–3 5.1b,4.7b
ISC Event type se.
MOS Error ellipse: s-maj=21.0km s-min=12.0km az=102.8.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=140.3.
IDC Error ellipse: s-maj=12.9km s-min=9.3km az=35.0.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c102; s107,c169; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.21±.14 $M_{\theta\theta}$-5.06±.21; $M_{\phi\phi}$0.84±.20; $M_{r\theta}$-4.36±.13; $M_{\theta\phi}$1.98±.16; $M_{\phi r}$-2.95±.11; Best double couple: NP1:ϕ_s255.00000°,δ70.00000° ,λ61.00000°. NP2:ϕ_s134.00000°,δ35.00000°,λ144.00000°. Principal axes: T 7.7050,Plg55.0000°,Azm128.0000°; N -0.8420,Plg28.0000°,Azm266.0000° ; P -6.8720,Plg20.0000°,Azm7.0000° $M_0$7.28900×10^{16}

NEIC Event type se. Error ellipse: s-maj=14.9km s-min=12.1km az=222.0.
ISC III 09 01 15 21.1–.70 60.9S–.10 24.3W–.20 10 4.1b,3.3s 15 12-154
ISCJB III 09 01 15 19.2–.68 61.0S–.10 24.3W–.40 10 4.1b,3.7s **¶16299004**
IDC III 09 01 15 19.4–1.0 60.93S 24.32W 0 4.2,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.6km s-min=10.0km az=148.7.
IDC Error ellipse: s-maj=38.7km s-min=28.1km az=14.0.
ISC III 09 23 43 30.5–.46 55.89S–.10 27.69W–.10 112 4.5b 56 17-152
ISCJB III 09 23 43 28.8–.38 55.95S–.07 27.7W–.10 112 4.5b **¶16299023**
NEIC III 09 23 43 33.0–2.1 55.94S 27.68W 136–19 4.5b
IDC III 09 23 43 34.5–4.8 55.91S 27.68W 145–43 4.5,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=8.7km az=152.8.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.8km az=213.0.
IDC Error ellipse: s-maj=16.9km s-min=15.7km az=32.0.
IDC III 10 09 46 58.7–2.3 57.00S 24.67W 0 4.3,4.1
¶17193613
IDC Error ellipse: s-maj=87.0km s-min=43.2km az=3.0.
ISC III 10 12 02 35.6–.81 57.1S–.20 25.1W–.30 22 4.2b 11 16-152
IDC III 10 12 02 32.5–1.1 57.08S 25.00W 0 4.5,4.3 **¶17193622**
ISCJB III 10 12 02 33.9–.88 57.1S–.20 25.1W–.50 22 4.2b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 10 14 11 39.4–.67 60.5S–.10 27.7W–.20 100 4.1b 15 13-153
IDC III 10 14 11 28.0–.76 60.24S 27.64W 0 4.2,4.1b **¶17193633**
ISCJB III 10 14 11 37.6–.69 60.5S–.10 27.7W–.30 100 4.0b,4.1b
ISC Event type ke.
ISCJB Event type ke.
ISC III 10 18 49 59.5–.88 55.4S–.20 26.8W–.30 25 4.4b 10 18-150
IDC III 10 18 49 55.8–.90 55.37S 26.84W 0 4.5,4.3 **¶17193648**
ISCJB III 10 18 49 58.3–1.1 55.3S–.10 26.9W–.50 25 4.3b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 10 23 04 16.7–.48 55.4S–.10 26.91W–.09 25 4.4b,4.4s 34 18-151
IDC III 10 23 04 13.1–.61 55.28S 26.85W 0 4.6,4.5 **¶16407469**
ISCJB III 10 23 04 14.7–.42 55.32S–.08 26.9W–.10 25 4.5b,4.3s
NEIC III 10 23 04 18.1–.24 55.36S 26.92W 35 4.4b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=18.4km az=25.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.6km az=41.1.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.6km az=202.0.
ISC III 11 00 37 53.9–.82 55.4S–.20 26.2W–.10 32 4.0b 12 19-154
IDC III 11 00 37 48.8–3.1 55.38S 26.13W 0 4.1,4.0 **¶16442215**
ISCJB III 11 00 37 51.8–.73 55.5S–.20 26.2W–.20 32 4.0b,4.0
NEIC III 11 00 37 54.4–.47 55.41S 26.23W 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=115.1km s-min=49.9km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=24.9km s-min=16.1km az=36.2.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=12.0km az=212.0.
ISC III 11 10 02 31.8–.63 55.6S–.10 26.34W–.10 38 4.8b 20 19-150
IDC III 11 10 02 26.7–.69 55.62S 26.27W 0 4.7,4.7 **¶16442253**
ISCJB III 11 10 02 30.0–.53 55.6S–.10 26.3W–.10 38 4.6b,4.7
NEIC III 11 10 02 31.4–.54 55.63S 26.37W 35 4.9b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=16.9km az=3.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=11.1km az=179.2.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=11.8km az=179.0.
ISC III 11 10 40 32.7–.92 55.7S–.10 26.2W–.20 32 4.6b 10 19-150
IDC III 11 10 40 27.9–1.1 55.65S 26.00W 0 4.6,4.5 **¶16476140**
ISCJB III 11 10 40 30.9–.89 55.7S–.10 26.2W–.40 32 4.6b,4.5
NEIC III 11 10 40 33.3–.60 55.67S 26.21W 35 4.5b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=45.7km s-min=26.5km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=33.3km s-min=13.5km az=153.1.
NEIC Event type se. Error ellipse: s-maj=25.5km s-min=10.8km az=64.0.
ISC III 11 21 59 04.8–.89 55.3S–.20 27.3W–.20 10 4.3b 9 20-150
ISCJB III 11 21 59 03.1–.99 55.4S–.20 27.4W–.30 10 4.2b **¶17194124**
IDC III 11 21 59 03.3–.85 55.30S 27.26W 0 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.5km s-min=20.7km az=144.0.
IDC Error ellipse: s-maj=28.8km s-min=24.3km az=69.0.
ISC III 12 18 28 40.3–.30 56.99S–.07 28.25W–.07 250 4.8b 109 16-152
ISCJB III 12 18 28 38.9–.28 56.97S–.05 28.1W–.10 250 4.8b **¶16310836**
BJI III 12 18 28 39.0 56.90S 28.00W 238 5.6b
NEIC III 12 18 28 40.6–.99 56.94S 28.07W 251–9 4.9b
IDC III 12 18 28 40.0–1.1 56.94S 28.03W 242–8 5.1,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.4km az=144.2.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.8km az=225.0.
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=34.0.
ISC III 13 07 41 59.5–1.5 59.1S–.20 26.3W–.50 10 7 14-152
IDC III 13 07 41 59.7–22 58.43S 27.22W 0 3.7,3.7 **¶17194787**
ISC Event type ke.
IDC Error ellipse: s-maj=1424.0km s-min=75.7km az=142.0.
ISC III 13 13 22 37.7–.76 56.5S–.10 25.6W–.10 29 4.2b 13 7-152
IDC III 13 13 22 32.9–1.6 56.56S 25.61W 0 4.4,4.2 **¶16407501**
ISCJB III 13 13 22 36.0–.73 56.4S–.10 25.6W–.20 29 4.3b,4.2
NEIC III 13 13 22 38.7–2.1 56.38S 25.56W 36–19 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=63.8km s-min=31.4km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=17.3km s-min=12.8km az=39.1.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=11.9km az=224.0.
IDC III 13 16 33 01.1–4.1 58.43S 25.22W 0 4.1,4.0
¶17194921
IDC Error ellipse: s-maj=171.1km s-min=42.2km az=161.0.
ISC III 13 23 46 29.7–.81 55.3S–.10 27.2W–.20 25 4.1b 10 19-150
IDC III 13 23 46 25.8–1.2 55.32S 27.31W 0 4.1,4.0 **¶16453138**
ISCJB III 13 23 46 27.6–.82 55.3S–.10 27.2W–.30 25 4.1b,4.0
NEIC III 13 23 46 31.1–.50 55.31S 27.19W 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=60.2km s-min=28.7km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=25.6km s-min=15.6km az=154.7.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=11.4km az=67.0.
ISC III 17 01 00 04.6–.39 57.95S–.07 25.61W–.06 58–3 5.4b,4.6s 404 7-175
MOS III 17 01 00 02.9–.91 57.82S 25.58W 49 5.5b,4.6s **¶16461878**
IDC III 17 01 00 04.8–.36 57.99S 25.68W 58–2 5.1,4.9b
ISCJB III 17 01 00 04.8–1.5 57.91S–.05 25.6W–.10 71–13 5.2b,4.9b
GCMT III 17 01 00 07.9–.20 58.05S 25.05W 54–0 5.3W,4.9b
NEIC III 17 01 00 07.9–1.1 57.92S 25.61W 85–9 5.4b,4.9b
BJI III 17 01 00 08.2 57.90S 25.70W 85 5.5s,5.4b
ISC Event type se.
MOS Error ellipse: s-maj=31.2km s-min=18.7km az=101.7.
IDC Error ellipse: s-maj=14.6km s-min=11.2km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=7.0km az=146.1.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c114; s91,c138; Duration: 1ȿ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.91±.02 $M_{\theta\theta}$0.10±.02; $M_{\phi\phi}$-1.01±.02; $M_{r\theta}$-0.01±.02; $M_{\theta\phi}$0.25±.01; $M_{\phi r}$0.13±.02; Best double couple: NP1:ϕ_s349.00000°,δ49.00000° ,λ92.00000°. NP2:ϕ_s166.00000°,δ41.00000°,λ87.00000°. Principal axes: T 0.9150,Plg86.0000°,Azm283.0000°; N 0.1570,Plg2.0000°,Azm168.0000° ; P -1.0730,Plg4.0000°,Azm78.0000° $M_0$0.99400×10^{17}

NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=55.0.
ISC III 18 22 53 25.4–.48 58.56S–.08 26.3W–.10 172 4.2b 29 14-152
ISCJB III 18 22 53 23.7–.42 58.57S–.06 26.2W–.20 172 4.2b **¶16339516**
IDC III 18 22 53 24.4–2.0 58.54S 26.31W 161–17 4.4,4.0
NEIC III 18 22 53 26.6–2.9 58.59S 26.28W 188–27 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=7.5km az=151.0.
IDC Error ellipse: s-maj=15.3km s-min=12.8km az=38.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.6km az=224.0.
ISC III 19 02 07 34.5–.84 57.1S–.20 24.8W–.30 10 4.0b 10 16-152
IDC III 19 02 07 32.8–.98 57.12S 24.73W 0 4.2,4.0 **¶17197120**
ISCJB III 19 02 07 33.3–.88 57.1S–.10 24.8W–.50 10 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 04 34 32.1–.38 56.10S–.08 26.57W–.09 35 4.5b,3.9s 74 17-152
ISCJB III 19 04 34 30.3–.39 56.07S–.07 26.7W–.10 35 4.5b,3.8s **¶16479304**
IDC III 19 04 34 33.8–5.1 56.19S 26.63W 51–45 4.3,4.1
NEIC III 19 04 34 34.5–1.6 56.15S 26.60W 58–14 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=8.8km az=147.2.
IDC Error ellipse: s-maj=19.1km s-min=16.8km az=58.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.2km az=212.0.
IDC III 20 14 15 38.3–2.1 54.62S 28.02W 0 3.9,3.9
¶17197476
IDC Error ellipse: s-maj=112.6km s-min=72.3km az=141.0.
ISC III 21 06 24 09.3–.69 55.5S–.10 29.6W–.20 28 4.1b 18 18-159
IDC III 21 06 24 05.4–1.7 55.49S 29.48W 0 4.2,4.1b **¶16342409**
ISCJB III 21 06 24 08.0–.81 55.4S–.10 29.5W–.30 28 4.1b,2.9s
NEIC III 21 06 24 10.8–.50 55.36S 29.52W 35 4.2b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=72.8km s-min=33.5km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=25.4km s-min=14.5km az=153.1.
NEIC Event type se. Error ellipse: s-maj=22.0km s-min=15.1km az=222.0.
ISC III 21 18 44 12.5–.71 56.1S–.10 24.5W–.10 10 4.3b,3.7s 15 16-151
ISCJB III 21 18 44 10.8–.68 56.07S–.09 24.6W–.20 10 4.2b,3.6s **¶16480045**
IDC III 21 18 44 11.2–.76 56.03S 24.44W 0 4.4,4.3b
NEIC III 21 18 44 16.1–.41 56.08S 24.56W 35 4.8b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=10.7km az=149.2.
IDC Error ellipse: s-maj=28.0km s-min=24.2km az=45.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=10.6km az=223.0.
ISC III 22 05 44 29.7–.31 57.58S–.06 25.85W–.07 65 4.9b 133 7-154
ISCJB III 22 05 44 28.5–.28 57.46S–.05 25.9W–.10 65 4.8b **¶16342426**
BJI III 22 05 44 32.3 57.40S 25.80W 84 5.5s,5.3b
IDC III 22 05 44 33.1–3.8 57.46S 26.04W 92–32 4.9,4.7
NEIC III 22 05 44 34.1–1.2 57.48S 25.98W 102–10 5.0b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.3km az=143.6.
IDC Error ellipse: s-maj=15.2km s-min=13.4km az=27.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.8km az=214.0.
ISC III 22 10 50 48.4–.85 55.5S–.20 27.7W–.20 10 4.2b 9 29-151
ISCJB III 22 10 50 46.7–.95 55.5S–.20 27.7W–.40 10 4.2b **¶16480216**
IDC III 22 10 50 47.1–.89 55.50S 27.59W 0 4.2,4.1
NEIC III 22 10 50 52.2–.56 55.48S 27.75W 35 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=32.6km s-min=18.1km az=149.5.
IDC Error ellipse: s-maj=40.4km s-min=25.0km az=74.0.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=14.0km az=60.0.
IDC III 24 21 25 09.3–15 55.91S 27.88W 163–133 3.7,3.4
¶17198408
IDC Error ellipse: s-maj=78.3km s-min=29.4km az=109.0.
ISC III 25 14 07 32.6–1.2 56.0S–.10 27.7W–.40 112 4.3b 11 17-151
IDC III 25 14 07 18.4–1.2 55.91S 27.97W 0 4.3,4.3 **¶16480841**
NEIC III 25 14 07 19.9–.99 55.80S 28.17W 10 4.8b,4.3
ISCJB III 25 14 07 31.1–1.4 56.0S–.10 27.5W–.70 112 4.3b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 02 45 11.0–.95 57.5S–.20 23.4W–.30 10 9 15-153
IDC III 26 02 45 09.4–1.7 57.55S 23.37W 0 4.2,4.1 **¶17198593**
ISCJB III 26 02 45 09.6–1.1 57.5S–.20 23.3W–.60 10 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC III 28 15 47 08.5–1.2 55.73S 26.63W 0 3.8,3.6
¶17198969
IDC Error ellipse: s-maj=88.9km s-min=36.8km az=99.0.
IDC III 28 23 18 05.8–1.1 56.29S 26.60W 0 4.0,3.8
¶17199009
IDC Error ellipse: s-maj=45.5km s-min=33.1km az=77.0.
ISC IV 01 21 17 50.5–.24 56.43S–.06 24.38W–.05 33 5.2b,4.6s 299 7-176
IDC IV 01 21 17 45.5–.34 56.42S 24.18W 0 5.0,5.0b **¶16912013**
ISCJB IV 01 21 17 48.7–.24 56.40S–.05 24.27W–.08 33 5.2b,4.7s
NEIC IV 01 21 17 49.7–1.9 56.40S 24.21W 26–13 5.3b,4.7s
MOS IV 01 21 17 49.5–.97 56.43S 24.29W 33 5.4b,4.7s
GCMT IV 01 21 17 49.7–.20 56.53S 23.82W 12 5.1W,4.7s

ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=11.8km az=28.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=41.9.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.9km az=210.0.
MOS Error ellipse: s-maj=21.2km s-min=11.3km az=100.3.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c63; s89,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.60±.12 $M_{\theta\theta}$0.99±.13; $M_{\phi\phi}$3.61±.11; $M_{r\theta}$-0.57±.37; $M_{\theta\phi}$-2.53±.09; $M_{\phi r}$0.16±.35; Best double couple: NP1:ϕ_s143.00000°,δ48.00000°,λ-98.00000°. NP2:ϕ_s334.00000°,δ43.00000°,λ-82.00000°. Principal axes: T 5.1690,Plg3.0000°,Azm238.0000°; N -0.5080,Plg6.0000°,Azm148.0000°; P -4.6590,Plg84.0000°,Azm353.0000° $M_0$4.91400$\times 10^{16}$
IDC IV 02 09 30 38.2–1.9 56.34S 27.89W 0 4.3,4.3
¶17199511

IDC Error ellipse: s-maj=107.7km s-min=70.0km az=138.0.
ISC IV 05 05 26 08.3–.68 59.7S–.10 26.3W–.20 35 4.1b 17 13-153
IDC IV 05 05 26 02.9–.93 59.82S 26.25W 0 4.2,4.1b **¶17199854**
ISCJB IV 05 05 26 06.8–.75 59.8S–.10 26.2W–.30 35 4.1b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 07 06 22 44.5–.54 59.5S–.10 29.2W–.10 10 4.3b,4.1s 24 16-152
ISCJB IV 07 06 22 42.7–.48 59.41S–.09 29.2W–.20 10 4.3b,3.9s **¶16512211**
IDC IV 07 06 22 43.2–.61 59.39S 29.29W 0 4.5,4.4b
NEIC IV 07 06 22 44.5–.37 59.45S 29.23W 10 4.7b,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=9.6km az=40.5.
IDC Error ellipse: s-maj=22.0km s-min=17.3km az=37.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.3km az=221.0.
ISC IV 08 19 42 13.5–.39 58.99S–.08 25.55W–.07 35 4.4b,3.9s 72 8-153
ISCJB IV 08 19 42 12.0–.37 58.99S–.06 25.4W–.10 35 4.4b,3.9s **¶16418223**
IDC IV 08 19 42 16.8–5.6 59.00S 25.76W 62–48 4.4,4.2
NEIC IV 08 19 42 21.4–1.5 59.01S 25.62W 104–13 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=7.5km az=136.1.
IDC Error ellipse: s-maj=20.0km s-min=17.2km az=56.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.7km az=215.0.
ISC IV 09 21 24 48.5–.66 60.6S–.10 23.9W–.20 10 4.0b 13 14-154
ISCJB IV 09 21 24 47.0–.62 60.6S–.10 24.0W–.40 10 4.2b,3.1s **¶16525094**
IDC IV 09 21 24 46.8–1.1 60.63S 24.18W 0 4.0,3.9b
NEIC IV 09 21 24 52.6–2.6 60.67S 23.90W 38–24 4.4b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=27.9km s-min=14.2km az=147.9.
IDC Error ellipse: s-maj=84.1km s-min=33.6km az=97.0.
NEIC Event type se. Error ellipse: s-maj=25.1km s-min=16.3km az=45.0.
ISC IV 11 20 14 46.5–.66 55.5S–.10 25.9W–.20 10 4.3b 17 17-150
ISCJB IV 11 20 14 44.8–.66 55.43S–.09 25.7W–.30 10 4.3b **¶16577791**
IDC IV 11 20 14 45.3–.80 55.41S 25.78W 0 4.3,4.3
NEIC IV 11 20 14 50.2–.45 55.45S 25.71W 35 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=10.3km az=158.8.
IDC Error ellipse: s-maj=27.8km s-min=23.5km az=114.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=11.7km az=96.0.
ISC IV 13 01 21 54.0–.63 59.6S–.20 28.8W–.20 10 4.4b,4.0s 18 17-152
ISCJB IV 13 01 21 52.5–.65 59.5S–.10 28.9W–.30 10 4.3b,3.9s **¶16532015**
IDC IV 13 01 21 52.5–.84 59.60S 28.79W 0 4.4,4.3b
NEIC IV 13 01 21 58.0–.50 59.61S 28.80W 35 4.4b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=18.9km az=21.9.
IDC Error ellipse: s-maj=38.9km s-min=25.5km az=116.0.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=18.4km az=110.0.
IDC IV 14 09 37 26.7–3.1 55.63S 29.53W 0 3.8,3.7
¶17201003

IDC Error ellipse: s-maj=113.8km s-min=48.5km az=173.0.
IDC IV 14 10 56 13.5–12 58.00S 25.65W 0 3.6,3.6
¶17201014

IDC Error ellipse: s-maj=712.1km s-min=65.2km az=142.0.
ISC IV 15 05 02 11.7–.24 55.59S–.06 28.06W–.06 26 5.4b,4.5s 294 5-166
ISCJB IV 15 05 02 10.6–.24 55.56S–.05 28.07W–.08 26 5.3b,4.5s **¶16436932**
MOS IV 15 05 02 12.1–1.1 55.60S 28.11W 33 5.5b,4.5s
BJI IV 15 05 02 14.7 55.60S 28.10W 47 5.3s,5.2b
IDC IV 15 05 02 15.4–1.2 55.63S 28.15W 54–9 5.2,4.9
NEIC IV 15 05 02 15.8–.86 55.62S 28.10W 55–7 5.3b,4.9
GCMT IV 15 05 02 15.8–.20 55.72S 27.96W 45–2 5.1W,4.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.1km az=136.6.
MOS Error ellipse: s-maj=20.9km s-min=11.4km az=103.2.
IDC Error ellipse: s-maj=15.1km s-min=10.8km az=35.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=218.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c60; s91,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.28±.24 $M_{\theta\theta}$1.14±.20; $M_{\phi\phi}$-3.42±.17; $M_{r\theta}$-3.52±.19; $M_{\theta\phi}$-0.03±.14; $M_{\phi r}$-3.38±.18; Best double couple: NP1:ϕ_s217.00000°,δ78.00000°,λ114.00000°. NP2:ϕ_s332.00000°,δ26.00000°,λ28.00000°. Principal axes: T 6.0170,Plg51.0000°,Azm154.0000°; N -0.6080,Plg23.0000°,Azm32.0000°; P -5.4090,Plg29.0000°,Azm288.0000° $M_0$5.71300$\times 10^{16}$
IDC IV 15 15 21 54.5–11 56.31S 25.94W 148–99 4.2,3.9
¶17201140

IDC Error ellipse: s-maj=39.0km s-min=25.3km az=77.0.
ISC IV 15 20 12 21.2–.86 56.0S–.20 27.4W–.30 112 4.0b 8 40-150
ISCJB IV 15 20 12 19.7–.94 56.0S–.20 27.3W–.40 112 4.0b **¶17201166**
IDC IV 15 20 12 20.9–11 56.02S 27.43W 108–100 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.4km s-min=21.2km az=165.9.
IDC Error ellipse: s-maj=31.3km s-min=23.4km az=84.0.
ISC IV 16 07 56 42.3–.47 55.37S–.10 28.05W–.07 26 4.7b,3.8s 40 5-152
IDC IV 16 07 56 38.5–.56 55.36S 27.89W 0 4.5,4.5b **¶16532033**
NEIC IV 16 07 56 39.8–3.7 55.38S 27.90W 9–22 5.0b,4.5b
ISCJB IV 16 07 56 40.3–.43 55.39S–.08 27.9W–.10 26 4.6b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 18 20 01 43.6–1.2 56.26S 26.04W 0 4.1,4.0
¶17201441

IDC Error ellipse: s-maj=48.2km s-min=32.3km az=94.0.
ISC IV 19 03 53 24.3–.29 56.54S–.07 25.65W–.06 29 5.1b,4.2s 190 7-165
IDC IV 19 03 53 19.9–.41 56.53S 25.61W 0 5.0b,5.0 **¶16446643**
ISCJB IV 19 03 53 22.4–.26 56.52S–.05 25.66W–.08 29 5.0b,4.2s
MOS IV 19 03 53 23.6–1.3 56.56S 25.72W 33 4.9b,4.2s
GCMT IV 19 03 53 25.6–.30 56.70S 25.19W 26–0 5.0W,4.2s
BJI IV 19 03 53 25.7 56.50S 25.60W 38 5.6s,5.5b
NEIC IV 19 03 53 25.6–1.2 56.57S 25.62W 39–10 5.0b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=12.5km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=37.2.
MOS Error ellipse: s-maj=23.7km s-min=13.2km az=104.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c35; s58,c78; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.65±.22 $M_{\theta\theta}$-1.12±.15; $M_{\phi\phi}$-2.53±.15; $M_{r\theta}$-0.30±.29; $M_{\theta\phi}$1.33±.08; $M_{\phi r}$1.68±.25; Best double couple: NP1:ϕ_s337.00000°,δ58.00000°,λ98.00000°. NP2:ϕ_s142.00000°,δ33.00000°,λ77.00000°. Principal axes: T 4.0770,Plg76.0000°,Azm272.0000°; N -0.3940,Plg7.0000°,Azm153.0000°; P -3.6830,Plg12.0000°,Azm61.0000° $M_0$3.88000$\times 10^{16}$
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=211.0.
IDC IV 19 04 52 01.5–3.3 56.71S 25.34W 0 4.0,3.8
¶17201468

IDC Error ellipse: s-maj=119.8km s-min=53.0km az=175.0.
ISC IV 22 00 29 07.2–.70 55.7S–.20 27.8W–.20 10 4.4b 13 19-151
ISCJB IV 22 00 29 05.7–.77 55.7S–.10 27.7W–.30 10 4.6b **¶16532314**
IDC IV 22 00 29 05.8–.88 55.70S 27.61W 0 4.1,4.1
NEIC IV 22 00 29 11.0–.41 55.67S 27.75W 35 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.6km s-min=17.5km az=155.2.
IDC Error ellipse: s-maj=68.1km s-min=31.5km az=99.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=12.7km az=62.0.
ISC IV 23 20 52 07.7–.74 61.1S–.20 26.3W–.20 10 4.0b 15 12-154
IDC IV 23 20 52 06.3–1.1 60.88S 25.58W 0 4.1,3.9b **¶16452974**
NEIC IV 23 20 52 11.2–.56 61.25S 26.36W 35 4.2b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=105.7km s-min=42.0km az=42.0.
NEIC Event type se. Error ellipse: s-maj=30.3km s-min=14.0km az=47.0.
ISC IV 25 12 49 53.4–.68 56.0S–.10 27.2W–.20 63 4.4b 16 17-150
IDC IV 25 12 49 44.9–.71 55.98S 27.23W 0 5.0L,4.4 **¶16460938**
ISCJB IV 25 12 49 52.1–.66 56.01S–.09 27.2W–.20 63 4.3b,4.4
ISC Event type ke.
ISCJB Event type ke.
IDC IV 29 16 26 46.0–1.3 59.67S 29.81W 0 3.9,3.9b
¶17202396

IDC Error ellipse: s-maj=69.5km s-min=54.2km az=97.0.
IDC V 02 05 20 30.4–1.9 58.07S 25.44W 0 3.9,3.9
¶17202579

IDC Error ellipse: s-maj=113.8km s-min=65.6km az=137.0.
ISC V 02 17 36 20.3–.74 55.9S–.20 27.1W–.10 63 4.4b 15 6-151
IDC V 02 17 36 12.2–.82 55.78S 26.64W 0 4.4,4.3 **¶16708626**
NEIC V 02 17 36 13.6–.46 55.79S 26.74W 10 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=23.8km az=57.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=11.3km az=224.0.
ISC V 07 13 28 42.2–.84 56.2S–.10 26.7W–.10 100 4.2b 16 6-150
IDC V 07 13 28 29.3–.94 56.25S 26.71W 0 4.3,4.2b **¶16499289**
ISCJB V 07 13 28 41.0–.89 56.2S–.10 26.8W–.20 100 4.1b,4.2b
NEIC V 07 13 28 46.4–2.4 56.28S 27.21W 139–21 4.5b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=45.8km s-min=28.2km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=8.2km az=36.8.
NEIC Event type se. Error ellipse: s-maj=26.4km s-min=13.8km az=67.0.
ISC V 08 04 29 55.2–.47 60.80S–.09 23.6W–.10 10 4.5b,3.7s 41 12-155
ISCJB V 08 04 29 53.4–.47 60.87S–.09 23.8W–.20 10 4.4b,3.7s **¶16577235**
NEIC V 08 04 30 00.6–2.9 60.75S 23.93W 48–25 4.6b,3.7s
GCMT V 08 04 30 00.6–.40 60.73S 23.13W 48–1 5.3W,3.7s
IDC V 08 04 30 01.6–5.3 60.74S 23.85W 55–47 5.7L,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=10.0km az=141.4.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.5km az=46.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c25; s69,c79; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.45±.04 $M_{\theta\theta}$0.14±.04; $M_{\phi\phi}$-0.58±.05; $M_{r\theta}$0.15±.02; $M_{\theta\phi}$0.96±.04; $M_{\phi r}$-0.07±.02; Best double couple: NP1:ϕ_s101.00000°,δ84.00000°,λ13.00000°. NP2:ϕ_s10.00000°,δ77.00000°,λ174.00000°. Principal axes: T 0.8260,Plg13.0000°,Azm326.0000°; N 0.4370,Plg76.0000°,Azm126.0000°; P -1.2620,Plg5.0000°,Azm235.0000° $M_0$1.04400$\times 10^{17}$
IDC Error ellipse: s-maj=18.8km s-min=17.6km az=4.0.
IDC V 08 14 16 45.0–1.0 55.89S 26.47W 0 4.2,4.0
¶17203052

IDC Error ellipse: s-maj=58.9km s-min=31.4km az=65.0.
IDC V 08 22 29 10.1–1.6 58.31S 25.21W 0 4.2,4.1
¶17203085

IDC Error ellipse: s-maj=59.3km s-min=36.6km az=5.0.
ISC V 09 06 12 54.3–.93 61.0S–.20 25.1W–.30 10 10 12-154
ISCJB V 09 06 12 51.5–1.1 61.1S–.20 25.4W–.70 10 3.7b,3.4s **¶16503260**
IDC V 09 06 12 53.9–2.4 60.71S 25.11W 0 4.1,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=55.2km s-min=13.1km az=152.8.
IDC Error ellipse: s-maj=89.2km s-min=53.0km az=171.0.
ISC V 10 13 03 04.8–.32 56.01S–.08 27.73W–.09 112 4.7b 137 5-176
BJI V 10 13 03 02.9 55.90S 27.40W 93 5.2b **¶16505604**
NEIC V 10 13 03 02.9–.14 55.96S 27.41W 92 5.0b
ISCJB V 10 13 03 03.6–.38 56.01S–.07 27.4W–.20 112 4.7b
IDC V 10 13 03 07.0–1.6 55.99S 27.50W 125–12 4.8,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=7.4km az=150.7.
IDC Error ellipse: s-maj=17.6km s-min=13.3km az=59.0.
IDC V 12 02 50 34.7–3.0 56.20S 24.29W 0 4.2,4.1
¶17203450

IDC Error ellipse: s-maj=99.9km s-min=35.9km az=176.0.
ISC V 13 22 18 03.2–.38 59.12S–.07 25.52W–.09 35 4.7b 73 8-154
IDC V 13 22 17 57.3–.51 59.15S 25.75W 0 4.5,4.4 **¶16560056**
ISCJB V 13 22 18 02.0–.33 59.04S–.06 25.5W–.10 35 4.7b,3.7s
NEIC V 13 22 18 08.1–1.2 59.08S 25.55W 79–11 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=16.9km az=15.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.4km az=139.9.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.3km az=220.0.
ISC V 14 02 39 24.7–.44 57.94S–.09 25.66W–.10 49 4.4b 58 7-154
ISCJB V 14 02 39 23.4–.46 57.94S–.07 25.5W–.10 49 4.4b,3.9s **¶16587331**
IDC V 14 02 39 26.2–4.9 57.88S 25.65W 60–44 5.1L,4.4
NEIC V 14 02 39 28.7–1.0 57.98S 25.63W 85–9 4.7b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=8.5km az=147.7.
IDC Error ellipse: s-maj=17.7km s-min=16.1km az=27.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.3km az=224.0.
ISC V 14 03 22 45.1–.51 55.76S–.10 27.73W–.08 35 4.5b,3.4s 42 5-152
ISCJB V 14 03 22 43.6–.52 55.75S–.07 27.6W–.10 35 4.4b,3.4s **¶16587332**
NEIC V 14 03 22 46.5–1.3 55.82S 27.58W 51–11 4.6b,3.4s
IDC V 14 03 22 48.2–2.7 55.84S 27.58W 64–23 4.4,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=9.4km az=144.3.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.8km az=46.0.
IDC Error ellipse: s-maj=18.1km s-min=17.1km az=51.0.
ISC V 16 01 59 06.2–.62 57.7S–.10 26.10W–.09 10 4.5b 23 7-153
IDC V 16 01 59 04.8–.79 57.61S 25.91W 0 4.3,4.2b **¶16580988**
ISCJB V 16 01 59 05.4–.59 57.56S–.08 26.0W–.20 10 4.4b,3.4s
NEIC V 16 01 59 10.1–.37 57.62S 26.05W 35 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=31.0km s-min=28.9km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=9.7km az=150.8.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.8km az=39.0.
ISC V 19 21 07 02.3–.33 57.99S–.08 25.54W–.08 49 5.0b 100 7-153
ISCJB V 19 21 07 00.5–.32 57.95S–.05 25.5W–.10 49 5.0b **¶16530706**
NEIC V 19 21 07 06.6–1.5 58.03S 25.60W 86–12 5.0b
IDC V 19 21 07 07.0–5.7 57.95S 25.52W 90–49 4.9,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.7km az=152.4.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.9km az=54.0.
IDC Error ellipse: s-maj=22.1km s-min=15.1km az=82.0.
IDC V 20 05 50 44.7–3.5 58.52S 25.27W 0 3.9,3.8
¶17204017

IDC Error ellipse: s-maj=120.6km s-min=48.2km az=170.0.
ISC V 21 00 16 27.1–.47 56.15S–.05 27.18W–.04 64–3 5.7b 826 6-176
MOS V 21 00 16 24.0–.99 56.08S 26.93W 41 5.8b,5.5s **¶16531581**
BJI V 21 00 16 24.6 56.10S 27.10W 47 5.7s,5.6b
ISCJB V 21 00 16 24.4–.17 56.06S–.03 27.27W–.06 50 5.7b,5.5s
NEIC V 21 00 16 25.6–.98 56.07S 27.11W 48–8 5.9W,5.9W
GCMT V 21 00 16 25.6–.10 56.04S 26.92W 46–0 5.9W,5.9W
NEIC V 21 00 16 26.0–.00 56.07S 27.11W 48 5.9W,5.9W
IDC V 21 00 16 27.3–1.5 56.08S 27.18W 64–12 5.5,5.4
ISC Event type se.
MOS Error ellipse: s-maj=18.8km s-min=9.7km az=95.1.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=142.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=55.0. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}4.80 $M_{\theta\theta}$2.24 $M_{\phi\phi}$-7.05 $M_{r\theta}$-3.15 $M_{\theta\phi}$-3.08 $M_{\phi r}$1.76 Best double couple: NP1:ϕ_s345.00000°,δ60.00000°,λ44.00000°. NP2:ϕ_s229.00000°,δ53.00000°,λ141.00000°. Principal axes: T 7.6300,Plg52.0000°,Azm200.0000°

; N 0.4000,Plg38.0000°,Azm13.0000°; P -8.0300,Plg4.0000°,Azm106.0000° M_o7.80000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c254; s137,c401;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.22±.01 $M_{\theta\theta}$0.50±.01; $M_{\phi\phi}$-0.71±.01; $M_{r\theta}$-0.33±.01; $M_{\theta\phi}$-0.43±.01; $M_{\phi r}$0.11±.01; Best double couple: NP1: ϕ_s337.00000°,δ70.00000°,λ22.00000°. NP2:ϕ_s239.00000°,δ70.00000°,λ158.00000°. Principal axes: T 0.8330,Plg30.0000°,Azm198.0000°; N 0.0250,Plg60.0000°,Azm18.0000° ; P -0.8590,Plg0.0000°,Azm108.0000° M_o0.84600×10^{18}

NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}2.45 $M_{\theta\theta}$4.38 $M_{\phi\phi}$-6.83 $M_{r\theta}$-2.40 $M_{\theta\phi}$-3.94 $M_{\phi r}$0.14 Best double couple: NP1:ϕ_s239.00000° ,δ73.00000°,λ157.00000°. NP2:ϕ_s336.00000°,δ68.00000°,λ18.00000°. Principal axes: T 6.8600,Plg27.0000°,Azm196.0000°; N 1.2400,Plg61.0000°,Azm24.0000° ; P -8.1100,Plg3.0000°,Azm288.0000° M_o7.60000×10^{17}

IDC Error ellipse: s-maj=12.1km s-min=10.4km az=21.0.

ISC	**V**	**21 00 24 17.9–.63**	**55.9S–.10**	**26.8W–.20**	**35**	**4.3b**	**19**	**19-152**
IDC	V	21 00 24 12.6–.81	55.86S	26.65W	0	4.7,4.5		**¶16591606**
ISCJB	V	21 00 24 16.1–.67	55.9S–.10	26.7W–.20	35	4.3b,4.5		
NEIC	V	21 00 24 18.4–3.0	55.92S	26.81W	40–26	4.1b,4.5		

ISC Event type se.

IDC Error ellipse: s-maj=44.9km s-min=24.0km az=63.0.

ISCJB Event type se. Error ellipse: s-maj=20.6km s-min=14.2km az=149.3.

NEIC Event type se. Error ellipse: s-maj=14.3km s-min=10.6km az=51.0.

ISC	**V**	**21 00 41 38.3–.30**	**56.00S–.07**	**27.27W–.07**	**50**	**5.1b,5.0s**	**134**	**6-169**
MOS	V	21 00 41 35.9–.96	56.04S	27.30W	45	5.2b,5.0s		**¶16531786**
ISCJB	V	21 00 41 36.4–.29	55.97S–.05	27.22W–.09	50	5.0b,4.8s		
NEIC	V	21 00 41 37.3–1.6	55.99S	27.16W	41–13	5.1b,4.8s		
BJI	V	21 00 41 37.1	56.00S	27.20W	35	5.5s,5.3		
IDC	V	21 00 41 40.1–1.4	56.01S	27.21W	71–11	4.7,4.5		

ISC Event type se.

MOS Error ellipse: s-maj=23.4km s-min=13.3km az=101.0.

ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.6km az=137.8.

NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.7km az=225.0.

IDC Error ellipse: s-maj=17.5km s-min=11.7km az=39.0.

IDC	**V**	**21 07 16 02.3–1.2**	**55.98S**	**26.59W**	**0**	**4.1,4.0b**		
								¶17204116

IDC Error ellipse: s-maj=46.8km s-min=31.4km az=92.0.

ISC	**V**	**21 15 42 59.9–.79**	**56.0S–.10**	**27.2W–.20**	**63**	**4.1b**	**16**	**6-150**
IDC	V	21 15 42 52.3–.90	55.94S	27.07W	0	4.2,4.1b		**¶16710522**
NEIC	V	21 15 42 57.4–.50	55.95S	27.05W	35	4.9b,4.1b		
ISCJB	V	21 15 42 58.6–.83	56.0S–.10	27.3W–.30	63	4.2b,4.1b		

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

ISC	**V**	**22 14 29 28.0–.83**	**56.5S–.10**	**27.0W–.30**	**101**	**3.9b**	**11**	**17-151**
ISCJB	V	22 14 29 26.7–.97	56.4S–.10	26.9W–.50	101	3.8b		**¶17204229**
IDC	V	22 14 29 32.6–11	56.44S	26.97W	142–104	3.9,3.8		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=41.5km s-min=15.3km az=158.0.

IDC Error ellipse: s-maj=42.7km s-min=25.3km az=73.0.

IDC	**V**	**23 01 24 09.6–7.9**	**56.60S**	**26.51W**	**284–75**	**4.0,3.4**		
								¶17204268

IDC Error ellipse: s-maj=55.5km s-min=19.9km az=52.0.

ISC	**V**	**23 10 19 54.8–.28**	**56.04S–.07**	**27.15W–.06**	**63**	**5.0b**	**218**	**6-176**
MOS	V	23 10 19 51.6–1.0	56.06S	26.97W	42	5.0b		**¶16534863**
NEIC	V	23 10 19 53.3–1.1	55.99S	27.07W	50–9	5.1b		
ISCJB	V	23 10 19 53.3–.30	55.95S–.05	27.07W–.10	63	5.0b		
GCMT	V	23 10 19 53.3–.40	55.94S	26.57W	64–3	5.2W		
IDC	V	23 10 19 54.6–1.6	56.01S	27.09W	60–13	5.0,4.7		
BJI	V	23 10 19 54.6	55.90S	27.10W	51	5.3s,5.2b		

ISC Event type se.

MOS Error ellipse: s-maj=24.9km s-min=12.6km az=100.7.

NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.2km az=51.0.

ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.5km az=136.8.

GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c27; s55,c73; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{\theta\theta}$0.83±.04; $M_{\phi\phi}$-0.67±.03; $M_{r\theta}$-0.15±.03; $M_{\theta\phi}$-0.22±.02; $M_{\phi r}$0.20±.02; Best double couple: NP1:ϕ_s142.00000°,δ85.00000° ,λ-19.00000°. NP2:ϕ_s234.00000°,δ71.00000°,λ-175.00000°. Principal axes: T 0.8960,Plg10.0000°,Azm189.0000°; N -0.1350,Plg70.0000°,Azm308.0000° ; P -0.7620,Plg17.0000°,Azm96.0000° M_o0.82900×10^{17}

IDC Error ellipse: s-maj=13.7km s-min=12.1km az=7.0.

ISC	**V**	**23 17 10 49.4–.98**	**57.4S–.20**	**27.0W–.30**	**150**		**7**	**16-151**
IDC	V	23 17 10 29.9–1.8	57.65S	26.65W	0	3.9,3.8		**¶17204311**
ISCJB	V	23 17 10 47.9–1.1	57.3S–.20	27.0W–.60	150	3.4b,3.8		

ISC Event type ke.

ISCJB Event type ke.

IDC	**V**	**23 20 10 09.1–1.2**	**57.36S**	**26.53W**	**0**	**3.8,3.7**		
								¶17204319

IDC Error ellipse: s-maj=101.4km s-min=33.4km az=101.0.

IDC	**V**	**23 20 55 28.0–1.0**	**55.63S**	**26.98W**	**0**	**4.1,3.9b**		
								¶17204321

IDC Error ellipse: s-maj=46.2km s-min=31.2km az=83.0.

ISC	**V**	**25 12 00 00.4–.74**	**55.8S–.10**	**27.2W–.20**	**35**	**4.2b,3.2s**	**18**	**6-152**
IDC	V	25 11 59 55.0–.80	55.86S	27.05W	0	4.4,4.2b		**¶16710900**
ISCJB	V	25 11 59 58.8–.75	55.8S–.10	27.3W–.30	35	4.2b,3.4s		
NEIC	V	25 12 00 00.2–.40	55.87S	27.18W	35	4.2b,3.4s		

ISC Event type se.

IDC Error ellipse: s-maj=36.0km s-min=25.1km az=65.0.

ISCJB Event type se. Error ellipse: s-maj=25.1km s-min=9.9km az=142.0.

NEIC Event type se. Error ellipse: s-maj=17.0km s-min=9.3km az=224.0.

IDC	**V**	**27 02 56 54.3–1.9**	**56.10S**	**28.44W**	**0**	**4.0,3.9**		
								¶17204539

IDC Error ellipse: s-maj=77.3km s-min=45.4km az=6.0.

ISC	**V**	**27 11 52 25.4–.65**	**60.8S–.10**	**25.8W–.20**	**10**	**4.1b,3.5s**	**17**	**12-154**
ISCJB	V	27 11 52 23.9–.70	60.88S–.09	25.5W–.30	10	4.3b,3.7s		**¶16711055**
IDC	V	27 11 52 24.4–.84	60.69S	25.98W	0	4.2,4.1b		
NEIC	V	27 11 52 25.6–.60	60.80S	25.72W	10	4.9b,4.1b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=24.0km s-min=11.4km az=166.3.

IDC Error ellipse: s-maj=40.8km s-min=25.6km az=70.0.

NEIC Event type se. Error ellipse: s-maj=25.6km s-min=14.7km az=73.0.

ISC	**V**	**29 20 11 47.0–.96**	**57.5S–.10**	**26.0W–.20**	**65**	**4.1b**	**10**	**17-152**
IDC	V	29 20 11 38.4–1.1	57.42S	25.88W	0	4.1,3.9		**¶16711240**
NEIC	V	29 20 11 43.7–.62	57.38S	25.94W	35	4.5b,3.9		
ISCJB	V	29 20 11 45.5–.98	57.5S–.10	26.1W–.30	65	4.0b,3.9		

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

ISC	**VI**	**03 00 05 35.8–.91**	**56.2S–.20**	**26.8W–.20**	**63**	**3.8b**	**11**	**19-150**
IDC	VI	03 00 05 27.8–1.2	56.06S	26.68W	0	4.2,4.1		**¶16713150**
NEIC	VI	03 00 05 33.4–.54	56.14S	26.79W	35	4.1b,4.1		
ISCJB	VI	03 00 05 34.1–.78	56.2S–.20	26.8W–.40	63	4.2b,4.1		

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

ISC	**VI**	**03 14 36 50.6–.33**	**55.72S–.07**	**25.59W–.06**	**10**	**4.9b,4.1s**	**115**	**6-161**
ISCJB	VI	03 14 36 49.0–.35	55.63S–.06	25.63W–.09	10	4.7b,4.1s		**¶16556049**
IDC	VI	03 14 36 49.4–.45	55.67S	25.59W	0	4.8,4.8b		
GCMT	VI	03 14 36 50.6–.40	55.81S	25.40W	29–1	5.1W,4.8b		
NEIC	VI	03 14 36 50.6–.18	55.66S	25.56W	10	5.0b,4.8b		
MOS	VI	03 14 36 53.3–1.0	55.67S	25.41W	33	5.2b,4.8b		
BJI	VI	03 14 36 55.4	55.60S	25.40W	44	5.2b,5.1s		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.3km az=25.2.

IDC Error ellipse: s-maj=16.8km s-min=15.9km az=147.0.

GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c29; s67,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.47±.46 $M_{\theta\theta}$1.83±.27; $M_{\phi\phi}$3.64±.26; $M_{r\theta}$-1.53±.38; $M_{\theta\phi}$-1.64±.12; $M_{\phi r}$1.55±.30; Best double couple: NP1:ϕ_s145.00000°,δ57.00000° ,λ-95.00000°. NP2:ϕ_s333.00000°,δ34.00000°,λ-83.00000°. Principal axes: T 5.0360,Plg11.0000°,Azm238.0000°; N 0.8990,Plg4.0000°,Azm147.0000° ; P -5.9350,Plg78.0000°,Azm38.0000° M_o5.48500×10^{16}

NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.6km az=206.0.

MOS Error ellipse: s-maj=30.4km s-min=12.4km az=99.3.

ISC	**VI**	**04 06 12 09.6–.39**	**55.99S–.07**	**28.09W–.07**	**121**	**4.7b**	**79**	**5-166**
ISCJB	VI	04 06 12 08.1–.31	55.93S–.05	27.9W–.10	121	4.7b		**¶16556912**
NEIC	VI	04 06 12 09.7–1.2	55.93S	27.90W	119–10	4.7b		
IDC	VI	04 06 12 11.9–4.6	55.93S	27.91W	139–42	4.6,4.2b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.3km az=147.4.

NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=223.0.

IDC Error ellipse: s-maj=16.7km s-min=13.6km az=47.0.

ISC	**VI**	**04 14 37 12.8–.85**	**55.6S–.20**	**25.4W–.30**	**10**	**4.2b**	**10**	**17-151**
ISCJB	VI	04 14 37 11.5–1.0	55.6S–.10	25.4W–.50	10	4.1b,3.6s		**¶17205220**
IDC	VI	04 14 37 11.3–.86	55.61S	25.40W	0	4.3,4.1b		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=42.1km s-min=16.5km az=159.0.

IDC Error ellipse: s-maj=42.7km s-min=29.7km az=83.0.

ISC	**VI**	**06 01 36 48.0–1.1**	**56.1S–.20**	**27.0W–.30**	**63**	**4.1b**	**6**	**17-150**
IDC	VI	06 01 36 39.8–1.1	55.99S	26.91W	0	4.2,4.0		**¶17205375**
ISCJB	VI	06 01 36 46.3–1.1	56.1S–.20	26.9W–.50	63	4.0b,4.0		

ISC Event type ke.

ISCJB Event type ke.

ISC	**VI**	**06 08 04 46.7–.95**	**56.1S–.20**	**27.3W–.30**	**112**	**3.8b**	**8**	**17-150**
IDC	VI	06 08 04 32.9–1.0	56.01S	27.13W	0	4.1,3.9		**¶17205395**
ISCJB	VI	06 08 04 44.1–1.1	56.2S–.20	27.0W–.50	112	3.8b,3.9		

ISC Event type ke.

ISCJB Event type ke.

IDC	**VI**	**06 16 51 01.8–9.5**	**61.08S**	**24.28W**	**0**	**3.9,3.9b**		
								¶17205420

IDC Error ellipse: s-maj=612.6km s-min=52.7km az=95.0.

IDC	**VI**	**08 09 25 31.3–3.8**	**55.78S**	**29.17W**	**0**	**4.1,3.9**		
								¶17205546

IDC Error ellipse: s-maj=132.4km s-min=51.2km az=173.0.

IDC	**VI**	**08 14 26 02.8–15**	**56.39S**	**28.06W**	**237–141**	**4.0,3.7**		
								¶17205558

IDC Error ellipse: s-maj=51.0km s-min=41.1km az=162.0.

IDC	**VI**	**09 03 03 04.2–1.1**	**55.47S**	**29.09W**	**0**	**3.8,3.7**		
								¶17205588

IDC Error ellipse: s-maj=47.3km s-min=31.6km az=88.0.

ISC	**VI**	**09 03 28 34.0–.42**	**55.59S–.10**	**29.04W–.09**	**24**	**4.8b,3.6s**	**71**	**4-161**
IDC	VI	09 03 28 30.8–.56	55.55S	29.00W	0	5.2L,4.7		**¶16684514**
ISCJB	VI	09 03 28 32.8–.49	55.60S–.08	29.1W–.10	24	4.6b,3.7s		
NEIC	VI	09 03 28 35.4–2.8	55.56S	29.09W	33–19	4.8b,3.7s		

ISC Event type se.

IDC Error ellipse: s-maj=21.3km s-min=16.9km az=42.0.

ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=9.8km az=138.6.

NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.8km az=48.0.

ISC	**VI**	**09 03 38 27.4–.64**	**55.6S–.10**	**29.37W–.10**	**24**	**4.5b**	**29**	**4-152**
IDC	VI	09 03 38 23.8–.78	55.56S	29.15W	0	4.4,4.3b		**¶16856732**
ISCJB	VI	09 03 38 25.4–.58	55.57S–.09	29.2W–.20	24	4.5b,3.2s		
NEIC	VI	09 03 38 28.9–.33	55.56S	29.21W	35	4.8b,3.2s		

ISC Event type se.

IDC Error ellipse: s-maj=34.9km s-min=21.0km az=53.0.

ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=10.9km az=138.4.

NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.2km az=45.0.

IDC	**VI**	**09 06 08 00.6–1.8**	**60.59S**	**27.75W**	**0**	**3.5,3.5**		
								¶17205600

IDC Error ellipse: s-maj=103.2km s-min=78.2km az=133.0.

IDC	**VI**	**09 12 07 31.8–1.8**	**55.93S**	**29.23W**	**0**	**4.1,3.9**		
								¶17205623

IDC Error ellipse: s-maj=79.4km s-min=44.6km az=10.0.

IDC	**VI**	**09 14 49 58.5–4.2**	**55.91S**	**29.04W**	**0**	**3.9,3.7**		
								¶17205640

IDC Error ellipse: s-maj=141.5km s-min=51.6km az=176.0.

ISC	**VI**	**09 18 07 56.0–.89**	**58.8S–.20**	**29.5W–.20**	**10**	**4.1b**	**8**	**39-152**
ISCJB	VI	09 18 07 54.7–.93	58.8S–.20	29.4W–.40	10	4.0b		**¶17205648**
IDC	VI	09 18 07 54.4–.82	58.76S	29.47W	0	4.2,4.1		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=29.9km s-min=22.5km az=162.8.

IDC Error ellipse: s-maj=31.0km s-min=24.0km az=73.0.

ISC	**VI**	**10 17 41 41.6–.43**	**56.10S–.09**	**27.03W–.08**	**63**	**4.7b**	**52**	**6-152**
ISCJB	VI	10 17 41 39.7–.41	56.12S–.08	27.1W–.10	63	4.6b		**¶16856888**
NEIC	VI	10 17 41 44.8–1.2	56.15S	27.11W	97–10	4.8b		
IDC	VI	10 17 41 44.4–.78	56.15S	26.95W	90–7	4.4,4.1b		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.6km az=26.4.

NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.4km az=219.0.

IDC Error ellipse: s-maj=18.9km s-min=14.4km az=51.0.

ISC	**VI**	**12 01 16 44.2–.85**	**56.8S–.20**	**24.8W–.20**	**22**	**4.4b**	**20**	**16-152**
IDC	VI	12 01 16 40.9–.86	56.83S	24.60W	0	4.7,4.7b		**¶16702423**
ISCJB	VI	12 01 16 43.2–1.2	56.8S–.20	24.9W–.40	22	4.5b,3.4s		
NEIC	VI	12 01 16 49.0–3.4	56.87S	24.92W	60–29	4.4b,3.4s		

ISC Event type se.

IDC Error ellipse: s-maj=36.2km s-min=22.9km az=45.0.

ISCJB Event type se. Error ellipse: s-maj=40.6km s-min=10.7km az=142.8.

NEIC Event type se. Error ellipse: s-maj=27.6km s-min=9.8km az=223.0.

ISC	**VI**	**12 11 56 04.7–.30**	**56.22S–.07**	**27.53W–.06**	**112**	**4.9b**	**134**	**5-159**
BJI	VI	12 11 56 02.4	56.79S	26.83W	98	5.2b		**¶16593420**
ISCJB	VI	12 11 56 03.1–.29	56.14S–.06	27.4W–.10	112	4.8b		
NEIC	VI	12 11 56 04.0–1.0	56.16S	27.34W	103–8	4.9b		
IDC	VI	12 11 56 05.3–1.6	56.14S	27.35W	116–12	4.7,4.5		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=135.4.

NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.2km az=224.0.

IDC Error ellipse: s-maj=18.5km s-min=13.5km az=57.0.

IDC	**VI**	**13 06 58 30.9–4.1**	**56.16S**	**26.47W**	**0**	**4.0,3.8**		
								¶17206035

IDC Error ellipse: s-maj=140.1km s-min=51.2km az=173.0.

IDC	**VI**	**13 12 03 06.2–1.0**	**57.83S**	**25.22W**	**0**	**3.9,3.7**		
								¶17206048

IDC Error ellipse: s-maj=45.5km s-min=34.5km az=76.0.

ISC	**VI**	**13 18 47 44.1–.47**	**56.14S–.06**	**27.45W–.06**	**101–3**	**5.0b**	**147**	**5-162**
ISCJB	VI	13 18 47 41.8–1.7	56.12S–.05	27.3W–.10	92–16	5.0b		**¶16596670**
GCMT	VI	13 18 47 43.5–.20	56.23S	26.99W	95–1	5.3W		
NEIC	VI	13 18 47 43.5–.18	56.12S	27.33W	94	5.1b		
IDC	VI	13 18 47 44.0–.48	56.10S	27.24W	97–3	5.0,4.7		
BJI	VI	13 18 47 45.3	56.10S	27.40W	107	5.2b,4.7		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=8.0km az=146.0.

GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c92; s104,c176; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.02 $M_{\theta\theta}$0.53±.03; $M_{\phi\phi}$-0.58±.02; $M_{r\theta}$-0.72±.01; $M_{\theta\phi}$0.64±.02; $M_{\phi r}$0.30±.02; Best double couple: NP1:ϕ_s292.00000°,δ88.00000° ,λ43.00000°. NP2:ϕ_s200.00000°,δ47.00000°,λ178.00000°. Principal axes: T 1.1260,Plg30.0000°,Azm165.0000°; N 0.0500,Plg47.0000°,Azm294.0000° ; P -1.1760,Plg27.0000°,Azm58.0000° M_o1.15100×10^{17}

NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.9km az=220.0.

IDC Error ellipse: s-maj=13.5km s-min=11.1km az=51.0.

ISC	**VI**	**13 22 51 30.3–.42**	**56.39S–.09**	**25.61W–.08**	**29**	**5.0b,3.8s**	**68**	**7-153**
IDC	VI	13 22 51 26.2–.56	56.34S	25.47W	0	4.6,4.5b		**¶16730431**
NEIC	VI	13 22 51 27.8–3.7	56.35S	25.52W	11–22	5.1b,4.5b		
ISCJB	VI	13 22 51 28.6–.35	56.38S–.06	25.69W–.10	29	4.9b,3.9s		

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

IDC	**VI**	**15 02 39 59.2–1.4**	**55.92S**	**26.69W**	**0**	**3.9,3.7**		
								¶17206149

IDC Error ellipse: s-maj=108.3km s-min=34.9km az=103.0.

IDC	**VI**	**16 07 02 34.4–3.0**	**57.57S**	**25.84W**	**0**	**4.1,3.9**		
								¶17206279

IDC Error ellipse: s-maj=109.1km s-min=49.8km az=173.0.

ISC VI 16 07 37 39.3–.93 59.7S–.20 25.7W–.30 32 8 13-153
IDC VI 16 07 37 35.3–1.8 59.45S 25.65W 0 4.1,4.0 **¶17206284**
ISCJB VI 16 07 37 37.0–1.1 59.8S–.20 25.7W–.60 32 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 17 14 31 39.7–.76 56.0S–.10 27.0W–.10 63 4.2b 12 6-151
NEIC VI 17 14 31 37.0–.53 55.94S 26.78W 35 4.2b **¶16730804**
ISCJB VI 17 14 31 38.1–.75 56.0S–.10 27.0W–.20 63 4.2b
IDC VI 17 14 31 42.2–12 55.97S 27.04W 76–112 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.6km az=209.0.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=12.6km az=37.9.
IDC Error ellipse: s-maj=41.2km s-min=24.8km az=73.0.
ISC VI 17 21 34 25.9–.76 55.7S–.10 28.6W–.10 45 4.0b,3.4s 16 5-152
IDC VI 17 21 34 19.7–1.1 55.57S 28.56W 0 4.1,4.0b **¶16714863**
ISCJB VI 17 21 34 23.8–.70 55.7S–.10 28.6W–.20 45 4.1b,3.4s
NEIC VI 17 21 34 24.7–.50 55.67S 28.56W 35 4.3b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=47.2km s-min=32.4km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=20.0km s-min=11.9km az=148.4.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=10.0km az=57.0.
ISC VI 19 08 37 45.6–.40 56.07S–.05 27.53W–.05 128–3 5.4b 688 5-176
BJI VI 19 08 37 44.1 56.00S 27.40W 120 5.2b **¶16632971**
NEIC VI 19 08 37 44.7–.11 56.05S 27.42W 119 5.5b
ISCJB VI 19 08 37 44.3–1.4 56.04S–.05 27.64W–.09 126–12 5.4b
GCMT VI 19 08 37 44.7–.10 56.16S 27.21W 133–1 5.2W
MOS VI 19 08 37 44.4–.98 56.07S 27.60W 123 5.2b
IDC VI 19 08 37 45.5–.46 56.12S 27.58W 126–3 5.3,5.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.6km az=219.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.3km az=137.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c111; s112,c164; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.89±.01 $M_{\theta\theta}$-0.55±.02; $M_{\phi\phi}$-0.33±.02; $M_{r\theta}$-0.24±.02; $M_{\theta\phi}$0.34±.02; $M_{\phi r}$0.15±.02; Best double couple: NP1:ϕ_s305.00000°,δ54.00000°,λ89.00000°. NP2:ϕ_s127.00000°,δ36.00000°,λ91.00000°. Principal axes: T 0.9360,Plg81.0000°,Azm211.0000°; N -0.0930,Plg1.0000°,Azm306.0000°; P -0.8420,Plg9.0000°,Azm36.0000° $M_0$0.88900×10^{17}
MOS Error ellipse: s-maj=20.1km s-min=10.9km az=98.5.
IDC Error ellipse: s-maj=11.2km s-min=10.3km az=38.0.
ISC VI 20 20 33 57.5–.59 59.4S–.10 25.7W–.10 40 4.5b 26 13-154
ISCJB VI 20 20 33 55.9–.76 59.4S–.10 25.7W–.20 40 4.4b **¶16731070**
NEIC VI 20 20 33 57.1–2.6 59.32S 25.62W 37–22 4.7b
IDC VI 20 20 34 03.8–8.0 59.36S 25.99W 93–70 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.7km s-min=10.1km az=44.5.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=9.1km az=218.0.
IDC Error ellipse: s-maj=30.0km s-min=18.0km az=51.0.
ISC VI 21 00 13 19.1–.35 60.47S–.08 24.64W–.08 10 4.9b,3.6s 89 12-154
ISCJB VI 21 00 13 17.8–.34 60.40S–.07 24.8W–.10 10 4.8b,3.7s **¶16640763**
IDC VI 21 00 13 17.8–.51 60.44S 24.71W 0 5.1L,4.7
BJI VI 21 00 13 21.6 60.50S 24.80W 25 5.3b,5.2s
NEIC VI 21 00 13 22.4–1.9 60.50S 24.80W 30–4 4.9b,5.2s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=24.7.
IDC Error ellipse: s-maj=19.7km s-min=16.7km az=39.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=14.3km az=214.0.
ISC VI 22 03 59 20.2–.62 58.04S–.10 25.3W–.10 49 4.2b 20 15-152
IDC VI 22 03 59 13.7–.67 57.89S 25.27W 0 5.5L,4.3 **¶16731196**
ISCJB VI 22 03 59 18.5–.62 57.89S–.09 25.3W–.20 49 4.2b,3.4s
NEIC VI 22 03 59 20.5–2.8 57.92S 25.25W 49–25 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=19.7km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=10.7km az=146.1.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=10.2km az=221.0.
ISC VI 23 06 02 01.7–.74 56.3S–.10 26.8W–.20 100 4.2b 12 16-151
ISCJB VI 23 06 02 00.1–.78 56.2S–.10 26.7W–.30 100 4.2b **¶17206801**
IDC VI 23 06 02 01.5–9.1 56.45S 26.65W 105–83 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=15.1km az=151.3.
IDC Error ellipse: s-maj=25.6km s-min=21.1km az=24.0.
ISC VI 24 20 46 42.8–.79 56.8S–.20 26.2W–.20 61 4.1b 11 20-151
IDC VI 24 20 46 34.7–.72 56.78S 26.05W 0 4.3,4.2b **¶17206889**
ISCJB VI 24 20 46 41.3–.90 56.8S–.20 26.1W–.40 61 4.2b,4.2b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 04 06 52.6–.57 55.99S–.10 27.1W–.10 63 4.4b 27 19-152
ISCJB VI 27 04 06 51.0–.59 55.96S–.09 27.0W–.20 63 4.4b **¶16731580**
NEIC VI 27 04 06 59.4–3.3 56.01S 27.09W 127–29 4.1b
IDC VI 27 04 06 59.4–6.2 55.99S 27.18W 123–55 4.5,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.7km s-min=11.7km az=157.2.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=9.9km az=60.0.
IDC Error ellipse: s-maj=24.7km s-min=15.4km az=73.0.
ISC VI 27 06 27 33.5–1.0 58.8S–.20 24.9W–.30 35 3.7b 7 14-153
IDC VI 27 06 27 28.8–1.1 58.58S 25.27W 0 3.8,3.7 **¶17207055**
ISCJB VI 27 06 27 31.7–1.1 58.8S–.20 24.9W–.50 35 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC VI 28 03 36 34.9–10 57.77S 26.56W 215–95 4.2,3.7b
¶17207111
IDC Error ellipse: s-maj=52.6km s-min=21.3km az=111.0.
ISC VI 30 22 02 49.5–.70 56.1S–.10 26.4W–.20 35 4.2b,3.1s 20 19-152
IDC VI 30 22 02 44.1–.77 56.06S 26.38W 0 4.5,4.3b **¶16731879**
ISCJB VI 30 22 02 47.7–.80 56.1S–.10 26.4W–.30 35 4.2b,3.1s
NEIC VI 30 22 02 49.4–.40 56.06S 26.40W 35 4.4b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=29.4km s-min=24.4km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=24.2km s-min=13.3km az=154.1.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=10.4km az=70.0.

(154) South Shetland Islands.

ISC I 12 16 45 00.2–.57 61.77S–.09 54.8W–.20 10 4.3b,3.6s 24 5-162
ISCJB I 12 16 44 59.3–.69 61.84S–.08 54.8W–.40 10 4.3b,3.6s **¶15998118**
IDC I 12 16 44 59.0–.58 61.83S 54.71W 0 4.5L,4.4
NEIC I 12 16 45 00.2–.41 61.79S 54.76W 10 4.6b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.2km s-min=11.6km az=5.2.
IDC Error ellipse: s-maj=31.1km s-min=16.5km az=83.0.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=10.1km az=86.0.
IDC V 23 02 59 06.4–1.3 61.72S 54.40W 0 3.9,3.7
¶17204276
IDC Error ellipse: s-maj=73.1km s-min=35.4km az=112.0.
ISC V 24 19 06 14.9–.85 62.7S–.10 57.3W–.10 10 4.2b,4.1s 14 4-152
IDC V 24 19 06 12.9–1.8 63.17S 56.44W 0 4.0b,4.0 **¶16710842**
ISCJB V 24 19 06 14.1–.90 62.7S–.10 57.4W–.20 10 4.3b,3.9s
NEIC V 24 19 06 14.8–.79 62.69S 57.50W 10 4.1b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=140.5km s-min=37.0km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=20.0km s-min=12.9km az=139.6.
NEIC Event type se. Error ellipse: s-maj=25.3km s-min=21.3km az=113.0.
ISC VI 07 10 31 23.9–.53 62.59S–.08 57.36W–.10 10 4.4b,3.6s 28 4-154
ISCJB VI 07 10 31 22.6–.50 62.61S–.07 57.2W–.30 10 4.4b,3.6s **¶16856578**
IDC VI 07 10 31 22.4–.72 62.74S 57.07W 0 4.3b,4.3
NEIC VI 07 10 31 23.9–.42 62.61S 57.15W 10 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=10.4km az=177.2.
IDC Error ellipse: s-maj=30.1km s-min=23.9km az=96.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=11.1km az=82.0.
ISC VI 07 11 21 02.5–.50 62.45S–.08 57.8W–.10 10 4.2b,4.0s 30 4-163
IDC VI 07 11 21 00.7–.63 62.66S 57.50W 0 4.3L,4.1 **¶16856579**
ISCJB VI 07 11 21 01.3–.55 62.47S–.08 57.9W–.30 10 4.4b,4.0s
NEIC VI 07 11 21 02.2–.47 62.43S 57.97W 10 4.6b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=22.2km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=10.9km az=178.6.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=12.5km az=88.0.
ISC VI 07 13 42 26.4–.49 62.43S–.09 57.85W–.09 10 4.4b,3.9s 41 4-163
IDC VI 07 13 42 24.7–.66 62.45S 57.63W 0 4.2,4.1b **¶16679578**
ISCJB VI 07 13 42 25.7–.56 62.41S–.08 57.8W–.20 10 4.5b,4.0s
NEIC VI 07 13 42 26.1–.37 62.38S 57.75W 10 4.7b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=32.8km s-min=23.8km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=12.1km az=3.9.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=12.6km az=94.0.
IDC VI 07 17 25 28.9–2.9 61.60S 59.14W 0 4.0L,3.9
¶17205501
IDC Error ellipse: s-maj=186.0km s-min=37.5km az=131.0.
ISC VI 07 19 23 21.7–.69 61.9S–.10 58.3W–.20 10 4.4b 17 4-153
ISCJB VI 07 19 23 20.2–.84 61.9S–.10 58.0W–.30 10 4.5b,4.2s **¶16856613**
NEIC VI 07 19 23 21.2–.68 61.92S 58.65W 10 4.5b,4.2s
IDC VI 07 19 23 22.0–3.2 62.22S 57.79W 0 3.9b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.2km s-min=16.8km az=12.1.
NEIC Event type se. Error ellipse: s-maj=24.9km s-min=17.1km az=97.0.
IDC Error ellipse: s-maj=210.7km s-min=45.0km az=138.0.
ISC VI 07 19 23 35.5–.58 62.1S–.10 58.1W–.10 10 4.8b 25 4-153
ISCJB VI 07 19 23 34.0–.60 62.08S–.10 58.1W–.30 10 4.8b,3.4s **¶17205507**
IDC VI 07 19 23 34.3–1.5 62.10S 58.48W 0 4.2L,4.2b
NEIC VI 07 19 23 34.9–.71 62.39S 59.26W 10 4.9b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.8km s-min=13.9km az=3.6.
IDC Error ellipse: s-maj=79.8km s-min=32.6km az=145.0.
NEIC Event type se. Error ellipse: s-maj=28.4km s-min=19.4km az=88.0.
IDC VI 09 14 05 03.1–2.0 62.62S 57.30W 0 3.8,3.8b
¶17205638
IDC Error ellipse: s-maj=196.4km s-min=67.9km az=139.0.
ISC VI 10 17 06 18.8–.42 62.73S–.08 57.29W–.10 10 4.7b,3.9s 55 4-163
IDC VI 10 17 06 16.7–.65 62.84S 56.94W 0 4.5L,4.4 **¶16603617**
ISCJB VI 10 17 06 17.2–.38 62.73S–.06 57.2W–.20 10 4.7b,4.0s
GCMT VI 10 17 06 19.6–.30 62.39S 57.27W 12 4.9W,4.0s
NEIC VI 10 17 06 19.6–1.0 62.72S 57.35W 17–6 5.0b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=18.2km az=64.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.9km az=160.5.
GCMT Error ellipse: s-maj=11.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c21; s71,c89; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.28±.11 $M_{\theta\theta}$1.43±.08; $M_{\phi\phi}$0.84±.14; $M_{r\theta}$-0.72±.33; $M_{\theta\phi}$0.95±.09; $M_{\phi r}$-1.14±.50; Best double couple: NP1:ϕ_s43.00000°,δ61.00000°,λ-100.00000°. NP2:ϕ_s242.00000°,δ31.00000°,λ-74.00000°. Principal axes: T 2.4730,Plg15.0000°,Azm140.0000°; N 0.2150,Plg8.0000°,Azm48.0000°; P -2.6910,Plg73.0000°,Azm290.0000° $M_0$2.58200×10^{16}
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.6km az=65.0.
ISC VI 10 21 14 38.4–.49 62.22S–.09 58.9W–.10 10 4.4b,3.4s 31 3-163
ISCJB VI 10 21 14 36.8–.54 62.27S–.08 58.8W–.20 10 4.5b,3.4s **¶16713621**
IDC VI 10 21 14 37.2–.68 62.22S 58.61W 0 4.2,4.2b
NEIC VI 10 21 14 38.1–.46 62.24S 58.61W 10 4.7b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=10.2km az=24.0.
IDC Error ellipse: s-maj=26.9km s-min=15.6km az=122.0.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=14.1km az=94.0.
ISC VI 12 16 22 15.3–.62 62.4S–.10 57.9W–.10 10 4.1b 26 4-154
ISCJB VI 12 16 22 14.2–.75 62.4S–.10 57.9W–.30 10 4.2b **¶16684521**
IDC VI 12 16 22 14.2–.90 62.44S 57.77W 0 4.0L,3.9b
NEIC VI 12 16 22 18.4–5.9 62.48S 57.87W 32–40 4.3b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.3km s-min=15.3km az=39.8.
IDC Error ellipse: s-maj=52.8km s-min=28.2km az=147.0.
NEIC Event type se. Error ellipse: s-maj=21.7km s-min=20.2km az=76.0.
IDC VI 12 17 06 27.1–3.0 62.14S 57.73W 0 3.7,3.7b
¶17205851
IDC Error ellipse: s-maj=239.3km s-min=74.2km az=133.0.
ISC VI 12 18 29 01.3–.65 62.4S–.10 58.0W–.10 10 4.6b 20 4-163
IDC VI 12 18 28 59.3–1.1 62.15S 58.04W 0 4.3,4.3b **¶16730249**
ISCJB VI 12 18 29 00.3–.69 62.37S–.10 57.7W–.30 10 4.4b,3.5s
NEIC VI 12 18 29 05.5–2.5 62.38S 58.02W 44–24 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=51.7km s-min=29.2km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=14.1km az=14.6.
NEIC Event type se. Error ellipse: s-maj=24.2km s-min=15.8km az=65.0.
ISC VI 13 00 02 35.5–.39 60.62S–.05 57.25W–.08 10 4.6b,3.9s 59 5-164
IDC VI 13 00 02 32.9–.65 60.56S 57.11W 0 5.0L,4.3 **¶16593448**
ISCJB VI 13 00 02 33.4–.39 60.59S–.06 57.1W–.20 10 4.7b,3.9s
BJI VI 13 00 02 37.2 60.50S 56.50W 14 5.3s,5.2
GCMT VI 13 00 02 38.1–.40 60.32S 57.58W 34–1 5.1W,5.2
NEIC VI 13 00 02 38.1–3.6 60.54S 56.73W 25–25 4.8b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=15.7km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=7.1km az=158.3.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c18; s75,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.85±.40 $M_{\theta\theta}$3.33±.27; $M_{\phi\phi}$-4.18±.31; $M_{r\theta}$1.37±.22; $M_{\theta\phi}$2.99±.16; $M_{\phi r}$1.01±.29; Best double couple: NP1:ϕ_s24.00000°,δ79.00000°,λ161.00000°. NP2:ϕ_s118.00000°,δ71.00000°,λ12.00000°. Principal axes: T 5.0140,Plg21.0000°,Azm340.0000°; N 0.2530,Plg68.0000°,Azm174.0000°; P -5.2680,Plg5.0000°,Azm72.0000° $M_0$5.14100×10^{16}
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=8.6km az=77.0.
ISC VI 15 07 05 43.9–.69 62.1S–.10 58.0W–.10 10 4.3b,3.3s 21 4-153
IDC VI 15 07 05 42.8–.77 61.91S 57.82W 0 4.3L,4.1 **¶16730541**
NEIC VI 15 07 05 43.5–.54 62.03S 57.94W 10 5.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=33.8km s-min=22.5km az=130.0.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=15.0km az=116.0.
ISC VI 16 00 30 00.1–1.5 62.1S–.40 58.0W–.60 10 13 21-153
IDC VI 16 00 29 58.5–1.2 62.22S 57.78W 0 3.8,3.6 **¶17206211**
ISC Event type ke.
IDC Error ellipse: s-maj=86.4km s-min=41.2km az=71.0.

(156) Southwestern Atlantic Ocean.

ISC I 30 01 03 39.0–.37 49.31S–.09 10.86W–.07 10 4.6b,4.4s 102 22-153
IDC I 30 01 03 35.8–.66 49.37S 10.48W 0 4.4,4.3 **¶15981230**
ISCJB I 30 01 03 37.8–.41 49.20S–.07 10.9W–.10 10 4.6b,4.4s
NEIC I 30 01 03 38.6–.26 49.32S 10.74W 10 4.9b,4.4s
GCMT I 30 01 03 38.6–.20 49.64S 10.59W 13–1 5.0W,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=15.0km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=10.5km az=30.8.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.1km az=166.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c46; s90,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.70±.23 $M_{\theta\theta}$1.16±.17; $M_{\phi\phi}$2.54±.15; $M_{r\theta}$-1.20±.47; $M_{\theta\phi}$2.92±.11; $M_{\phi r}$-0.57±.35; Best double couple: NP1:ϕ_s49.00000°,δ54.00000°,λ-76.00000°. NP2:ϕ_s206.00000°,δ38.00000°,λ-109.00000°. Principal axes: T 5.0150,Plg8.0000°,Azm129.0000°; N -1.0320,Plg11.0000°,Azm221.0000°; P -3.9830,Plg76.0000°,Azm5.0000° $M_0$4.49900×10^{16}
IDC IV 30 00 42 34.4–2.0 62.35S 51.86W 0 4.3,4.2b
¶17202424
IDC Error ellipse: s-maj=155.7km s-min=80.5km az=103.0.

(732) East of South Sandwich Islands.

ISC II 28 11 04 16.0–.54 59.19S–.10 17.0W–.10 10 4.8s,4.3b 29 12-156
BJI II 28 11 04 13.5 58.90S 16.30W 10 5.4b,5.3s **¶16170152**

ISCJB	II	28 11 04 14.1–.53	59.18S–.08	16.9W–.20	10	4.8s,4.3b			
IDC	II	28 11 04 15.9–1.6	58.83S	16.87W	0	4.7s,4.7			
NEIC	II	28 11 04 16.5–.68	59.23S	17.01W	10	4.9b,4.7			
GCMT	II	28 11 04 16.5–.10	59.30S	17.16W	16–0	5.6W,4.7			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=8.0km az=145.9.
IDC Error ellipse: s-maj=60.1km s-min=23.2km az=173.0.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=15.5km az=205.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c185; s133,c323;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.27±.04 $M_{\theta\theta}$-0.71±.04; $M_{\phi\phi}$0.97±.04; $M_{r\theta}$0.18±.10; $M_{\theta\phi}$2.94±.03; $M_{\phi r}$-0.05±.10; Best double couple: NP1: ϕ_s262.00000°,δ88.00000°,λ-3.00000°. NP2:ϕ_s352.00000°,δ87.00000°,λ-178.00000°. Principal axes: T 3.1940,Plg1.0000°,Azm307.0000°; N -0.2590,Plg86.0000°,Azm53.0000° ; P -2.9340,Plg4.0000°,Azm217.0000° $M_0$3.06400×10^{17}

ISC	**II**	**28 12 57 15.8–.85**	**59.1S–.10**	**16.9W–.20**	**10**	**4.3b,4.0s**	**13**	**12-156**
GCMT	II	28 12 57 12.0–.30	59.22S	16.98W	24–2	5.1W,4.0s		¶16170153
IDC	II	28 12 57 13.1–2.2	59.34S	16.78W	0	4.3,4.2		
ISCJB	II	28 12 57 14.0–.72	59.11S–.09	16.9W–.30	10	4.4b,4.0s		
NEIC	II	28 12 57 15.5–.75	59.08S	16.85W	10	4.9b,4.0s		

ISC Event type se.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c33; s71,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.39±.26 $M_{\theta\theta}$-0.41±.26; $M_{\phi\phi}$0.02±.20; $M_{r\theta}$1.13±.36; $M_{\theta\phi}$4.69±.20; $M_{\phi r}$0.45±.27; Best double couple: NP1:ϕ_s89.00000°,δ84.00000° ,λ14.00000°. NP2:ϕ_s358.00000°,δ76.00000°,λ174.00000°. Principal axes: T 4.7810,Plg14.0000°,Azm314.0000°; N 0.1570,Plg75.0000°,Azm112.0000° ; P -4.9380,Plg6.0000°,Azm223.0000° $M_0$4.86000×10^{16}
IDC Error ellipse: s-maj=71.5km s-min=29.2km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=25.6km s-min=9.6km az=156.2.
NEIC Event type se. Error ellipse: s-maj=26.1km s-min=16.5km az=56.0.

IDC	**III**	**21 20 18 41.4–8.0**	**60.73S**	**21.56W**	**0**	**4.0s,4.0**	
							¶17197750

IDC Error ellipse: s-maj=509.7km s-min=48.8km az=92.0.

ISC	**V**	**02 10 20 55.0–.80**	**58.0S–.10**	**9.5W–.20**	**10**	**4.2b,3.6s**	**17**	**13-159**
ISCJB	V	02 10 20 53.7–.80	58.11S–.09	9.7W–.30	10	4.1b,3.7s		¶16491518
IDC	V	02 10 20 53.5–.92	57.88S	9.50W	0	4.2,4.1b		
NEIC	V	02 10 20 54.8–.74	57.97S	9.57W	10	4.2,4.1b		
GCMT	V	02 10 20 56.0–.40	58.15S	9.72W	15	4.9W,4.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.0km s-min=11.8km az=160.8.
IDC Error ellipse: s-maj=41.7km s-min=22.2km az=51.0.
NEIC Event type se. Error ellipse: s-maj=32.5km s-min=15.1km az=66.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c30; s66,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.07±.16 $M_{\theta\theta}$-0.84±.17; $M_{\phi\phi}$0.91±.12; $M_{r\theta}$0.84±.51; $M_{\theta\phi}$2.17±.09; $M_{\phi r}$0.36±.41; Best double couple: NP1:ϕ_s79.00000°,δ87.00000° ,λ21.00000°. NP2:ϕ_s348.00000°,δ69.00000°,λ177.00000°. Principal axes: T 2.6040,Plg16.0000°,Azm306.0000°; N -0.1870,Plg69.0000°,Azm86.0000° ; P -2.4170,Plg13.0000°,Azm212.0000° $M_0$2.51000×10^{16}

ISC	**VI**	**11 11 21 52.0–.31**	**58.30S–.07**	**14.16W–.06**	**10**	**5.1b,4.6s**	**129**	**13-170**	
IDC	VI	11 11 21 50.4–.50	58.24S	14.07W	0	4.8,4.8b			¶16589818
ISCJB	VI	11 11 21 50.1–.28	58.30S–.05	14.07W–.09	10	5.0b,4.7s			
GCMT	VI	11 11 21 51.9–.10	58.47S	13.87W	15–0	5.4W,4.7s			
NEIC	VI	11 11 21 51.9–.25	58.28S	14.02W	10	5.3b,4.7s			
BJI	VI	11 11 21 52.2	58.30S	14.00W	10	5.4b,5.1s			
MOS	VI	11 11 21 54.2–2.0	58.38S	14.14W	30	4.8b,5.1s			

ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=14.2km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.1km az=40.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c169; s126,c233; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.06±.02 $M_{\theta\theta}$-0.44±.03; $M_{\phi\phi}$0.49±.02; $M_{r\theta}$-0.10±.07; $M_{\theta\phi}$1.64±.02; $M_{\phi r}$-0.04±.06; Best double couple: NP1:ϕ_s262.00000°,δ89.00000° ,λ3.00000°. NP2:ϕ_s172.00000°,δ87.00000°,λ179.00000°. Principal axes: T 1.7380,Plg3.0000°,Azm127.0000°; N -0.0600,Plg86.0000°,Azm274.0000° ; P -1.6780,Plg2.0000°,Azm37.0000° $M_0$1.70800×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.4km az=207.0.
MOS Error ellipse: s-maj=25.2km s-min=12.0km az=101.1.

SEISMIC REGION 11.
New Zealand Region.

(158) Off west coast of North Island.

WEL	**II**	**01 03 39 14.7–.23**	**39.24S**	**173.84E**	**14–1**	**3.0L**		
								¶15993431

WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.2km az=90.0. Felt in the Taranaki region, maximum reported intensity MM 4.

(159) North Island.

WEL	**I**	**01 13 51 26.8–.24**	**39.56S**	**174.33E**	**201–1**	**3.8L**		
								¶15902580

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=90.0.

WEL	**I**	**02 06 38 44.3–.39**	**38.50S**	**175.40E**	**261–3**	**4.3L**		
NEIC	I	02 06 38 43.0	38.50S	175.35E	274	4.3		¶15902780

WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=0.0.
NEIC Event type se. After WEL.

ISC	**I**	**02 08 36 49.8–.86**	**41.24S–.03**	**175.25E–.03**	**33–5**		**91**	**0-151**
ISCJB	I	02 08 36 48.8–.36	41.36S–.03	175.35E–.04	45–4	3.1b		¶15902801
NEIC	I	02 08 36 50.3	41.22S	175.24E	29	3.8L		
WEL	I	02 08 36 50.3–.04	41.22S	175.24E	29–0	3.8L		
IDC	I	02 08 36 52.4–5.1	39.20S	174.73E	0	3.6,3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.2km az=135.7.
NEIC Event type fe. Felt at South Wairarapa and Wellington. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=90.0. Felt between Wellington, Marlborough and Wairarapa, maximum reported. intensity MM 5.
IDC Error ellipse: s-maj=300.4km s-min=47.5km az=30.0.

WEL	**I**	**02 14 21 47.8–.38**	**37.80S**	**176.71E**	**144–2**	**3.4L**		
								¶600661635

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=0.0.

WEL	**I**	**02 20 32 09.6–.45**	**38.00S**	**176.06E**	**177–4**	**3.7L**		
								¶15902888

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=0.0.

WEL	**I**	**02 23 07 27.1–.39**	**37.61S**	**176.22E**	**181–3**	**3.5L**		
								¶15902895

WEL Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=90.0.

WEL	**I**	**03 01 01 45.0–.31**	**37.71S**	**176.59E**	**145–2**	**3.8L**		
								¶15902900

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=0.0.

WEL	**I**	**04 15 14 50.9–.13**	**38.85S**	**176.02E**	**100–1**	**4.2L**		
NEIC	I	04 15 14 50.8	38.85S	176.02E	101	4.2		¶15905606

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0.
NEIC Event type se. After WEL.

WEL	**I**	**05 00 48 28.8–.39**	**37.59S**	**175.56E**	**229–8**	**3.8L**		
								¶15905616

WEL Event type ke. Error ellipse: s-maj=9.6km s-min=6.5km az=90.0.

WEL	**I**	**05 08 55 55.1–.35**	**38.85S**	**175.72E**	**116–2**	**3.5L**		
								¶15907147

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=90.0.

ISC	**I**	**06 06 41 58.2–.77**	**38.85S–.05**	**175.04E–.05**	**238–5**	**3.8b**	**228**	**0-150**
ISCJB	I	06 06 41 57.7–.42	38.87S–.04	175.01E–.05	239–3	3.8b		¶15907149
WEL	I	06 06 41 58.8–.35	38.78S	175.11E	237–3	5.0L		
IDC	I	06 06 41 58.3–.70	38.49S	175.36E	240–12	4.1,3.7		
NEIC	I	06 06 41 58.4	38.77S	175.09E	241	5.1,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=38.5.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.3km az=90.0. Felt from Bay of Plenty to Wellington, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=29.6km s-min=17.5km az=55.0.
NEIC Event type fe. Lightly felt in the eastern part of the North Island. After WEL.

WEL	**I**	**06 15 03 26.6–.57**	**38.21S**	**176.24E**	**159–4**	**3.7L**		
								¶15908757

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=90.0.

WEL	**I**	**07 04 58 07.3–.14**	**38.36S**	**177.57E**	**44–1**	**3.6L**		
								¶15909679

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=90.0.

WEL	**I**	**07 10 09 09.1–.36**	**37.19S**	**176.68E**	**229–3**	**4.4L**		
NEIC	I	07 10 09 08.3	37.18S	176.71E	237	4.4		¶15909682

WEL Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=0.0.
NEIC Event type se. After WEL.

WEL	**I**	**08 05 20 28.2–.46**	**38.03S**	**175.97E**	**139–5**	**3.6L**		
								¶15909686

WEL Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=90.0.

WEL	**I**	**09 21 21 33.1–.44**	**38.15S**	**175.89E**	**178–4**	**3.5L**		
								¶15915778

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=3.7km az=90.0.

WEL	**I**	**10 19 58 29.2–.28**	**37.72S**	**176.20E**	**170–3**	**3.5L**		
								¶15918289

WEL Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=90.0.

WEL	**I**	**11 00 40 40.8–.08**	**38.91S**	**177.89E**	**32–0**	**3.5L**		
								¶15918290

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 3.

WEL	**I**	**12 12 01 41.0–.35**	**39.62S**	**174.29E**	**218–2**	**3.9L**		
								¶15925897

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=90.0.

WEL	**I**	**12 17 42 41.6–.38**	**37.98S**	**176.39E**	**164–3**	**3.9L**		
								¶15925906

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=0.0.

WEL	**I**	**13 16 00 57.5–.24**	**38.40S**	**176.19E**	**133–2**	**3.1L**		
								¶600661960

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=1.3km az=90.0.

WEL	**I**	**13 16 31 24.9–.11**	**38.63S**	**177.92E**	**25–1**	**4.1L**		
NEIC	I	13 16 31 21.4	38.55S	177.94E	19	4.0L		¶15927318

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt in the Gisborne region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.

WEL	**I**	**13 16 32 39.3–.09**	**38.59S**	**177.88E**	**18–1**	**3.6L**		
								¶600661961

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0.

WEL	**I**	**13 16 35 07.0–.09**	**38.61S**	**177.89E**	**24–1**	**3.5L**		
								¶15927319

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0.

WEL	**I**	**13 16 39 03.2–.08**	**38.60S**	**177.88E**	**25–1**	**2.8L**		
								¶15927320

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0.

WEL	**I**	**17 15 34 53.8–.15**	**39.09S**	**175.75E**	**92–1**	**3.5L**		
								¶15934882

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0.

ISC	**I**	**18 08 45 47.4–.37**	**38.40S–.03**	**176.06E–.03**	**157–3**	**4.8b**	**369**	**0-165**	
BJI	I	18 08 45 44.3	38.72S	176.54E	158	5.4b,5.0b			¶15934898
IDC	I	18 08 45 46.1–.34	38.33S	176.23E	150–4	4.7,4.3			
ISCJB	I	18 08 45 46.1–.17	38.27S–.02	176.09E–.04	157–1	4.9b,4.3			
WEL	I	18 08 45 47.0–.17	38.11S	176.18E	152–1	5.7L,4.3			
NEIC	I	18 08 45 47.1	38.12S	176.18E	150	4.9b,4.3			
GCMT	I	18 08 45 47.1–.50	38.24S	176.45E	150–4	5.0W,4.3			

ISC Event type fe.
IDC Error ellipse: s-maj=14.8km s-min=13.2km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=12.4.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from West Coast to Gisborne, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Hastings, Napier, Te Karaka and Wairoa. After WEL.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c21; s66,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.19±.24 $M_{\theta\theta}$3.37±.27; $M_{\phi\phi}$-1.18±.24; $M_{r\theta}$-2.15±.19; $M_{\theta\phi}$-0.44±.28; $M_{\phi r}$-2.59±.14; Best double couple: NP1:ϕ_s60.00000°,δ73.00000° ,λ-123.00000°. NP2:ϕ_s305.00000°,δ37.00000°,λ-30.00000°. Principal axes: T 4.1440,Plg21.0000°,Azm174.0000°; N 0.6510,Plg31.0000°,Azm71.0000° ; P -4.7960,Plg51.0000°,Azm292.0000° $M_0$4.47000×10^{16}

WEL	**I**	**19 03 11 06.3–.30**	**38.01S**	**176.38E**	**145–2**	**3.6L**		
								¶15942556

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=90.0.

WEL	**I**	**19 06 12 17.7–.23**	**38.08S**	**176.13E**	**139–2**	**3.6L**		
								¶15942559

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=2.3km az=0.0.

ISC	**I**	**19 06 41 58.2–.83**	**40.09S–.02**	**176.47E–.02**	**31–5**		**209**	**0-153**
NEIC	I	19 06 41 58.8	40.14S	176.58E	33	4.3L		¶15938381
WEL	I	19 06 41 59.1–.10	40.09S	176.47E	31–1	4.2L		
IDC	I	19 06 42 02.5–1.2	38.76S	175.36E	0	4.2,4.1L		

ISC Event type fe.
NEIC Event type fe. Felt in Hawke's Bay. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt from Bay of Plenty to Wairarapa, and from Whanganui to Hawke''s Bay. maximum reported intensity MM 5.
IDC Error ellipse: s-maj=45.1km s-min=13.2km az=165.0.

WEL	**I**	**19 10 56 43.5–.29**	**38.69S**	**175.44E**	**168–2**	**3.7L**		
								¶15942561

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=90.0.

WEL	**I**	**19 19 31 17.8–.33**	**38.26S**	**175.79E**	**150–3**	**3.5L**		
								¶600662144

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=90.0.

WEL	**I**	**19 23 15 37.8–.56**	**39.24S**	**174.96E**	**215–3**	**3.5L**		
								¶600662151

WEL Event type ke. Error ellipse: s-maj=5.7km s-min=5.0km az=90.0.

WEL	**I**	**20 04 07 36.8–.29**	**38.10S**	**176.41E**	**126–3**	**3.8L**		
								¶15949105

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=1.1km az=0.0.

WEL	**I**	**20 12 05 39.3–.11**	**38.35S**	**177.18E**	**45–2**	**3.5L**		
								¶600662172

WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0.

ISC	**I**	**20 17 46 57.2–.90**	**40.11S–.02**	**176.22E–.02**	**33–2**	**4.2b**	**176**	**0-153**	
IDC	I	20 17 46 51.0–1.8	40.10S	176.39E	0	4.3,4.2b			¶15949110
ISCJB	I	20 17 46 57.0–.30	40.14S–.02	176.32E–.04	49–3	4.2b,4.2b			
WEL	I	20 17 46 58.0–.05	40.10S	176.21E	35–1	4.1L,4.2b			
NEIC	I	20 17 46 58.3	40.14S	176.29E	35	4.1L,4.2b			

ISC Event type ke.
IDC Error ellipse: s-maj=42.9km s-min=17.8km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.8km az=21.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt from King Country to Wairarapa, and from Whanganui to Hawke''s Bay. maximum reported intensity MM 5.
NEIC Event type se. After WEL.

WEL	**I**	**20 18 31 34.0–.27**	**37.79S**	**176.58E**	**131–3**	**3.6L**		
								¶600662178

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=90.0.

WEL	**I**	**23 00 56 25.8–.76**	**37.50S**	**176.46E**	**161–7**	**3.6L**		
								¶600662228

WEL Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=90.0.

WEL	**I**	**23 09 49 54.6–.30**	**39.74S**	**174.11E**	**192–2**	**3.9L**		
								¶15960508

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.4km az=90.0.

WEL	**I**	**25 23 39 43.2–.31**	**38.84S**	**175.28E**	**199–2**	**4.1L**		
NEIC	I	25 23 39 42.9	38.84S	175.26E	202	4.1		¶15967674

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=0.0.
NEIC Event type se. After WEL.

WEL	**I**	**26 14 36 19.8–.19**	**39.11S**	**176.06E**	**95–1**	**3.6L**		
								¶15972642

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0.

WEL	**I**	**27 03 41 51.4–.06**	**40.60S**	**175.88E**	**32–0**	**2.8L**		
								¶600662318

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0.

WEL	**I**	**27 05 19 45.4–.05**	**38.80S**	**176.46E**	**5**	**3.5L**		
								¶15972645

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Taupo region, maximum reported intensity MM 4.
ISC I 27 15 02 46.4–.31 38.48S–.03 176.05E–.03 160–2 5.2b 678 0-179
BJI I 27 15 02 41.4 38.90S 176.83E 154 5.5b,5.1b **¶15977996**
IDC I 27 15 02 45.9–.30 38.43S 176.42E 161–2 5.3,4.9
ISCJB I 27 15 02 45.8–.12 38.49S–.02 175.92E–.03 157–1 5.2b,4.9
NEIC I 27 15 02 46.3–.15 38.50S 176.00E 158 5.6W,5.3b
WEL I 27 15 02 47.0–.17 38.41S 176.01E 151–1 6.4L,5.3b
GCMT I 27 15 02 46.3–.10 38.49S 176.03E 159–0 5.6W,5.3b
MOS I 27 15 02 46.7–1.2 38.32S 176.06E 168 5.2b,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=9.3km az=27.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.1km az=17.8.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=88.0. Felt [IV] in much of the North Island. Felt from Auckland and East Cape to Wellington. Also felt in the Blenheim-Nelson area of the South Island. Moment Tensor Solution. s25 Moment tensor: Scale 10^{17}Nm; M_{rr}0.49 $M_{\theta\theta}$0.07 $M_{\phi\phi}$-0.56 $M_{r\theta}$2.54 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.92 Best double couple: NP1:ϕ_s179.00000° ,δ12.00000°,λ22.00000°. NP2:ϕ_s68.00000°,δ86.00000°,λ101.00000°. Principal axes: T 2.8800,Plg48.0000°,Azm349.0000°; N -0.2000,Plg11.0000°,Azm247.0000° ; P -2.6800,Plg40.0000°,Azm148.0000° M_o2.80000×10^{17}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt between Coromandel, Otago and Gisborne, maximum reported intensity MM 5. Lots of clear 1st motions here.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s101,c179; s126,c262;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.51±.04 $M_{\theta\theta}$0.33±.04; $M_{\phi\phi}$-0.84±.04; $M_{r\theta}$2.79±.03; $M_{\theta\phi}$-0.54±.04; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s74.00000° ,δ87.00000°,λ105.00000°. NP2:ϕ_s175.00000°,δ16.00000°,λ12.00000°. Principal axes: T 3.2150,Plg46.0000°,Azm359.0000°; N -0.5220,Plg15.0000°,Azm253.0000° ; P -2.6930,Plg40.0000°,Azm150.0000° M_o2.95400×10^{17}
MOS Error ellipse: s-maj=13.1km s-min=10.0km az=126.2.
WEL I 27 18 03 18.8–.37 38.09S 176.26E 127–5 3.5L
¶600662340
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=90.0.
WEL I 29 08 18 01.3–.43 37.83S 176.28E 163–3 3.5L
¶600662378
WEL Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=90.0.
WEL I 29 14 52 59.6–.53 38.00S 176.48E 133–4 3.5L
¶600662385
WEL Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=90.0.
WEL I 30 17 49 17.6–.15 38.91S 178.00E 28–1 3.8L
NEIC I 30 17 49 17.6 38.91S 177.99E 27 3.8L **¶15982698**
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt in northern Hawke's Bay. After WEL.
WEL I 30 19 30 56.5–.07 37.69S 175.63E 5 3.5L
¶15982700
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Bay of Plenty to Waikato, maximum reported intensity MM 4.
WEL I 31 00 23 43.2–.12 38.92S 178.00E 28–0 3.3L
¶600662428
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0.
ISC I 31 10 52 19.0–.99 39.12S–.06 174.80E–.05 215–6 190 0-145
ISCJB I 31 10 52 18.8–.46 39.08S–.04 174.78E–.05 211–3 3.1b **¶15993429**
IDC I 31 10 52 18.0–.91 39.41S 175.10E 202–18 3.6,3.3
NEIC I 31 10 52 20.0 39.05S 174.85E 212 4.4,3.3
WEL I 31 10 52 20.9–.25 39.06S 174.88E 204–1 4.4L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.6km az=141.0.
IDC Error ellipse: s-maj=51.0km s-min=11.5km az=129.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=0.0.
WEL II 01 03 39 41.1–.18 39.24S 175.85E 70–1 3.5L
¶602734451
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=90.0.
WEL II 01 05 53 10.3–.41 37.93S 176.00E 170–4 3.6L
¶602330879
WEL Event type ke. Error ellipse: s-maj=4.8km s-min=3.5km az=90.0.
WEL II 03 03 23 39.4–.54 38.39S 175.71E 168–5 3.5L
¶602330939
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=90.0.
WEL II 03 23 53 02.2–.10 40.74S 175.94E 28–0 3.7L
¶16007039
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0. Felt from Manawatu to Wairarapa, maximum reported intensity MM 4.
WEL II 05 15 45 53.1–.42 39.46S 174.41E 226–3 3.6L
¶16007685
WEL Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=90.0.
WEL II 08 11 34 03.2–.31 38.09S 176.38E 155–2 3.7L
¶16014953
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=0.0.
WEL II 09 18 01 39.5–.24 38.73S 176.13E 111–2 3.7L
¶16019816
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=90.0.
WEL II 09 23 12 42.7–.32 37.72S 175.84E 261–3 4.2L
NEIC II 09 23 12 43.9 37.88S 175.90E 258 4.2 **¶16019818**
WEL Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=0.0.
NEIC Event type se. After WEL.
WEL II 10 17 23 24.2–.26 38.85S 175.13E 240–2 4.0L
NEIC II 10 17 23 23.9 38.84S 175.13E 242 4.0 **¶16020786**
WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=0.0.
NEIC Event type se. After WEL.
WEL II 11 10 49 52.4–.22 38.64S 175.74E 151–1 3.8L
¶16022038
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=90.0.
WEL II 11 15 38 50.7–.27 38.71S 175.67E 118–2 3.5L
¶602333029
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=90.0.
WEL II 12 08 44 29.8–.46 38.38S 175.87E 173–4 3.6L
¶16022449
WEL Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=0.0.
WEL II 14 12 37 59.2–.55 38.45S 175.83E 166–4 3.5L
¶602333093
WEL Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=90.0.
WEL II 16 00 14 20.8–.29 39.60S 174.10E 163–2 3.5L
¶602333150
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=90.0.
ISC II 17 20 36 59.4–.84 38.32S–.04 176.72E–.04 94–5 223 0-151
IDC II 17 20 36 56.9–1.5 38.76S 176.98E 79–7 3.6,3.5 **¶16031874**
ISCJB II 17 20 36 58.9–.43 38.36S–.03 176.73E–.04 110–4 3.6b,3.5
NEIC II 17 20 37 01.5 38.28S 176.72E 81 4.4L,3.5
WEL II 17 20 37 01.4–.18 38.27S 176.72E 83–1 4.4L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=16.1km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.5km az=16.3.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=0.0. Felt between Rotorua and Bay of Plenty, maximum reported intensity MM 4.
WEL II 17 21 14 47.5–.42 37.91S 175.95E 198–4 3.7L
¶602734473
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=3.4km az=0.0.
WEL II 17 21 14 52.5–.13 38.06S 176.71E 2–0 2.5L
¶16031875
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.
ISC II 18 04 41 30.0–.82 39.70S–.06 174.11E–.05 219–6 127 0-153
ISCJB II 18 04 41 29.2–.41 39.65S–.04 174.05E–.05 223–4 3.5b **¶17192456**
WEL II 18 04 41 30.8–.25 39.66S 174.16E 218–2 4.6L
IDC II 18 04 41 30.1–1.4 39.80S 174.30E 214–15 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.0km az=135.5.
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=90.0.
IDC Error ellipse: s-maj=34.3km s-min=22.1km az=151.0.
WEL II 18 18 12 25.1–.44 38.57S 175.73E 152–3 3.6L
¶16032950
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=90.0.
ISC II 18 18 57 02.4–.97 38.62S–.06 175.68E–.05 197–6 230 0-150
ISCJB II 18 18 56 59.9–.66 38.48S–.05 175.69E–.05 220–6 3.2b **¶16032953**
IDC II 18 18 57 01.4–.90 38.86S 176.03E 188–11 3.9,3.5
WEL II 18 18 57 04.6–.32 38.49S 175.76E 180–2 4.7L,3.5
NEIC II 18 18 57 04.5 38.48S 175.76E 181 4.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.7km az=147.9.
IDC Error ellipse: s-maj=41.4km s-min=14.5km az=130.0.
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=90.0.
NEIC Event type se. After WEL.
WEL II 20 08 33 00.5–.20 37.32S 175.90E 218–4 4.0L
NEIC II 20 08 33 00.3 37.31S 175.89E 222 4.0 **¶16057000**
WEL Event type ke. Error ellipse: s-maj=6.7km s-min=4.0km az=90.0.
NEIC Event type se. After WEL.
WEL II 20 18 14 10.0–.09 38.94S 177.35E 38–2 3.5L
¶16057014
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0.
WEL II 20 23 47 40.8–.35 37.89S 175.93E 187–3 3.6L
¶16057024
WEL Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=0.0.
WEL II 22 22 35 04.0–.31 38.16S 176.34E 155–2 4.3L
NEIC II 22 22 35 03.3 38.13S 176.32E 160 4.2 **¶16160413**
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=0.0.
NEIC Event type se. After WEL.
WEL II 23 03 28 57.0–.45 38.54S 175.83E 146–3 3.5L
¶602336843
WEL Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=0.0.
WEL II 25 01 59 14.8–.42 38.48S 175.77E 182–3 3.7L
¶16160453
WEL Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=0.0.
WEL II 26 03 00 30.6–.37 39.39S 174.68E 199–3 3.6L
¶602337424
WEL Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=90.0.
WEL II 26 08 10 27.3–.38 38.71S 175.42E 223–2 3.8L
NEIC II 26 08 10 21.8 38.56S 175.30E 266 4.0 **¶16160465**
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.9km az=0.0.
NEIC Event type se. After WEL.
ISC II 27 13 16 38.0–.91 38.06S–.04 176.45E–.04 184–5 3.3b 247 0-150
ISCJB II 27 13 16 37.7–.42 38.08S–.03 176.43E–.04 185–3 3.8b **¶16168273**
WEL II 27 13 16 39.5–.20 38.00S 176.45E 171–1 4.4L
NEIC II 27 13 16 39.6 37.99S 176.45E 169 4.4
IDC II 27 13 16 39.2–.79 38.05S 175.81E 132–15 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=171.1.
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0.
NEIC Event type se. After WEL.
IDC Error ellipse: s-maj=32.6km s-min=15.2km az=144.0.
WEL II 27 18 02 27.1–.18 39.82S 174.18E 132–1 4.1L
NEIC II 27 18 02 27.1 39.82S 174.17E 132 4.1 **¶16168291**
WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0.
NEIC Event type se. After WEL.
ISC III 02 16 33 17.7–.91 39.14S–.04 174.83E–.05 224–6 211 0-151
IDC III 02 16 33 13.2–9.1 38.91S 174.65E 157–84 3.4,3.1 **¶16177111**
ISCJB III 02 16 33 17.8–.43 39.17S–.03 174.88E–.05 222–3 2.8b,3.1
NEIC III 02 16 33 19.6 39.15S 174.89E 216 4.2,3.1
WEL III 02 16 33 19.6–.23 39.15S 174.90E 216–1 4.2L,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=80.3km s-min=43.2km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=41.9.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=1.5km az=0.0.
WEL III 02 22 09 06.5–.21 38.76S 175.85E 129–1 3.5L
¶16177113
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=1.1km az=90.0.
ISC III 03 13 19 20.1–.77 41.11S–.02 175.08E–.02 33–3 4.4b 151 0-152
IDC III 03 13 19 14.4–.88 40.87S 175.21E 0 4.3,4.2 **¶16194003**
ISCJB III 03 13 19 19.5–.22 41.18S–.02 175.13E–.03 48–2 4.4b,3.4s
IASPE III 03 13 19 20.3–1.1 41.09S–.03 175.07E–.03 33–2 4.4b,3.4s
WEL III 03 13 19 20.8–.04 41.08S 175.08E 29–0 4.6L,3.4s
NEIC III 03 13 19 20.8 41.07S 175.10E 30 4.7L,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=35.7km s-min=26.7km az=14.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.7km az=40.8.
IASPE Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=142.3. GT5 selection from ISC bulletin. GT5 identified by Bond¨¡r and McLaughlin (2009) selection criteria. Bond¨¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt from Hawke''s Bay to Nelson, maximum reported intensity MM 6.
NEIC Event type fe. Felt [IV] in the Wellington area. Felt widely in the southern part of the North Island and the northern part of the South Island. After WEL.
WEL III 03 23 55 29.7–.05 41.08S 175.09E 28–0 3.7L
¶16194028
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt between Manawatu, Nelson and Wairarapa, maximum reported intensity MM 4.
WEL III 04 01 39 27.6–.42 37.84S 175.78E 144–7 3.6L
¶16194030
WEL Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=90.0.
WEL III 05 05 06 27.7–.32 39.67S 174.12E 204–2 3.5L
¶600710639
WEL Event type ke. Error ellipse: s-maj=2.9km s-min=1.6km az=90.0.
WEL III 06 23 03 11.0–.57 38.63S 175.57E 192–4 3.7L
¶16202796
WEL Event type ke. Error ellipse: s-maj=4.3km s-min=4.2km az=90.0.
WEL III 07 02 24 25.7–.41 37.58S 176.35E 140–6 3.6L
¶16202800
WEL Event type ke. Error ellipse: s-maj=5.7km s-min=4.3km az=90.0.
WEL III 08 23 26 00.3–.16 38.32S 177.18E 48–2 3.7L
¶16294220
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.9km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.
WEL III 09 02 41 43.0–.67 38.24S 176.06E 156–6 3.5L
¶16294222
WEL Event type ke. Error ellipse: s-maj=4.2km s-min=4.1km az=90.0.
WEL III 11 00 35 05.9–.38 38.46S 175.75E 142–3 3.5L
¶600711205
WEL Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=0.0.
WEL III 12 01 10 01.1–.28 37.18S 176.24E 198–3 3.9L
¶16309755
WEL Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=90.0.
WEL III 13 09 34 02.6–.69 37.78S 176.39E 153–5 3.6L
¶16310919
WEL Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=90.0.
WEL III 15 21 51 51.9–.29 39.61S 174.06E 169–2 3.5L
¶600679908
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=90.0.
WEL III 16 01 56 59.1–.46 38.59S 175.28E 232–3 3.6L
¶600679922
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=5.4km az=90.0.
WEL III 17 01 29 26.7–.09 38.08S 177.88E 30–1 3.5L
¶600679949
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=90.0.
ISC III 17 19 22 33.9–.68 38.86S–.04 175.88E–.04 139–4 3.7b 250 0-154
ISCJB III 17 19 22 33.5–.35 38.86S–.03 175.83E–.04 139–3 3.8b **¶16335588**
NEIC III 17 19 22 35.9 38.78S 175.91E 122 4.6
WEL III 17 19 22 35.9–.17 38.79S 175.93E 122–1 4.6L
IDC III 17 19 22 35.3–.80 38.49S 176.33E 145–9 4.1,4.0

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=43.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.9km az=90.0.
IDC Error ellipse: s-maj=47.8km s-min=25.5km az=19.0.
WEL III 18 13 12 27.4–.33 38.19S 176.27E 158–2 3.7L
¶16338679

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=0.0.
ISC III 19 07 11 46.3–.77 38.99S–.03 176.21E–.03 84–5 3.9b 214 0-154
IDC III 19 07 11 38.8–1.7 36.94S 176.38E 0 4.2,4.0 **¶16338681**
ISCJB III 19 07 11 45.9–.28 39.01S–.02 176.22E–.03 90–3 3.9b,4.0
WEL III 19 07 11 47.5–.13 38.95S 176.20E 78–1 4.1L,4.0
NEIC III 19 07 11 47.3 38.95S 176.20E 80 4.1L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=57.2km s-min=23.1km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=23.1.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Waikato to Wellington, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL III 19 08 34 42.6–.24 39.62S 174.15E 212–1 4.7L
NEIC III 19 08 34 42.5 39.63S 174.15E 212 4.3b **¶16339523**
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=1.1km az=90.0. Felt from Taranaki to Wellington, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Aokautere, Karori, Palmerston North and Te Horo. After WEL.
WEL III 19 23 20 54.0–.46 37.06S 176.91E 237–4 4.2L
NEIC III 19 23 20 52.5 37.00S 176.93E 250 4.2 **¶16339541**
WEL Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=0.0.
NEIC Event type se. After WEL.
ISC III 20 07 30 09.7–1.4 37.65S–.05 176.51E–.05 217–7 4.2b 268 0-150
ISCJB III 20 07 30 11.5–.41 37.72S–.02 176.41E–.05 209–3 4.2b **¶16341171**
WEL III 20 07 30 12.0–.22 37.51S 176.60E 200–2 5.0L
IDC III 20 07 30 11.5–.92 38.01S 176.77E 201–11 4.5,4.0
NEIC III 20 07 30 12.9 37.52S 176.58E 190 5.0b,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=178.6.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.2km az=90.0. Felt from Bay of Plenty to Waikato, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=42.5km s-min=21.1km az=133.0.
NEIC Event type fe. Felt [IV] at Tauranga and [III] at Hamilton and Opotiki. After WEL.
WEL III 20 17 17 34.0–.27 37.53S 175.80E 254–4 3.5L
¶600680104

WEL Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=90.0.
WEL III 23 03 55 22.5–.16 40.08S 176.67E 42–2 3.1L
¶600680204

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0.
WEL III 24 06 29 50.3–.33 38.58S 175.31E 227–3 3.6L
¶600680242

WEL Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=0.0.
WEL III 25 16 11 24.5–.40 37.78S 176.21E 183–3 3.5L
¶16362921

WEL Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=0.0.
WEL III 26 01 41 45.4–.25 38.19S 176.06E 157–2 4.0L
¶600680311

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=0.0.
WEL III 26 03 04 07.8–.13 39.17S 175.42E 118–1 3.7L
¶16361175

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0.
WEL III 26 18 11 46.0–.06 39.52S 175.68E 5 3.5L
¶16362938

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from King Country to Hawke''s Bay, maximum reported intensity MM 4.
ISC III 26 20 40 19.9–.92 37.31S–.06 176.66E–.06 267–6 232 1-150
ISCJB III 26 20 40 18.3–.62 37.27S–.04 176.71E–.07 277–4 3.3b **¶16362944**
IDC III 26 20 40 18.8–.79 37.60S 177.03E 261–8 4.0,3.5
NEIC III 26 20 40 19.1 37.13S 176.81E 261 4.9,3.5
WEL III 26 20 40 19.8–.41 37.14S 176.84E 255–3 5.1L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.2km az=8.1.
IDC Error ellipse: s-maj=40.3km s-min=21.5km az=138.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=0.0.
WEL III 27 03 16 51.0–.38 39.74S 174.01E 208–3 3.5L
¶16388270

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=90.0.
ISC III 28 02 28 37.8–.71 37.05S–.06 176.90E–.07 307–6 3.9b 211 1-156
IDC III 28 02 28 37.1–.95 37.00S 177.08E 303–7 4.4,3.9 **¶16373264**
ISCJB III 28 02 28 38.2–.54 37.11S–.05 176.92E–.08 316–4 3.9b,3.9
NEIC III 28 02 28 41.4 36.93S 176.94E 274 4.3b,3.9
WEL III 28 02 28 41.1–.34 36.91S 176.96E 277–2 5.0L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=20.0km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.5km az=24.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=0.0. Felt in the Bay of Plenty region.
WEL III 28 04 40 33.7–.50 37.70S 176.24E 206–4 3.9L
¶16373265

WEL Event type ke. Error ellipse: s-maj=3.5km s-min=3.4km az=0.0.
WEL III 28 09 20 03.2–.34 37.40S 176.55E 186–3 3.7L
¶16388271

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=0.0.
WEL III 28 14 36 59.0–.54 37.44S 176.43E 293–4 4.3L
NEIC III 28 14 36 59.9 37.46S 176.42E 285 4.3 **¶16388273**
WEL Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=0.0.
NEIC Event type se. After WEL.
WEL III 28 22 15 49.4–.38 39.56S 174.30E 218–2 4.0L
NEIC III 28 22 15 48.5 39.54S 174.30E 226 4.0 **¶16388274**
WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=90.0.
NEIC Event type se. After WEL.
WEL III 29 06 33 13.5–.66 37.78S 176.33E 190–5 4.0L
¶600680375

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=0.0.
WEL III 29 18 05 09.0–.52 38.72S 175.46E 165–4 3.5L
¶16391424

WEL Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=90.0.
WEL III 30 22 13 31.0–.63 38.58S 175.81E 163–5 3.7L
¶16399959

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=90.0.
WEL III 31 10 15 00.7–.50 37.05S 176.44E 175–5 3.7L
¶16403632

WEL Event type ke. Error ellipse: s-maj=5.8km s-min=5.1km az=90.0.
WEL III 31 13 09 08.0–.48 37.92S 176.57E 148–3 3.5L
¶16403633

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=90.0.
WEL III 31 19 59 56.2–.50 38.38S 176.04E 163–4 3.6L
¶16403636

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=90.0.
WEL IV 01 10 03 00.2–.49 37.58S 176.39E 199–3 3.7L
¶16403637

WEL Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=0.0.
WEL IV 01 16 53 47.6–.44 38.15S 176.21E 164–4 3.5L
¶16403638

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=0.0.
WEL IV 02 07 30 05.8–.47 37.03S 176.92E 244–4 3.5L
¶16403641

WEL Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=0.0.
ISC IV 02 20 28 43.5–.65 39.87S–.02 176.91E–.03 31–3 4.0b,3.7s 232 0-153
IDC IV 02 20 28 43.7–1.4 39.86S 176.80E 30–6 4.1,4.1 **¶16404917**
WEL IV 02 20 28 44.5–.09 39.87S 176.92E 41–2 4.4L,4.1
NEIC IV 02 20 28 44.5 39.87S 176.92E 39 4.5b,4.4L
ISC Event type fe.
IDC Error ellipse: s-maj=30.6km s-min=20.4km az=118.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 5.
NEIC Event type fe. Felt along the east coast of the North Island. After WEL.
WEL IV 03 23 11 37.0–.37 37.99S 176.20E 141–4 3.6L
¶16406770

WEL Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=90.0.
WEL IV 04 07 14 55.8–.32 38.09S 176.20E 165–3 3.5L
¶16408808

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=90.0.
WEL IV 04 21 15 02.8–.31 38.40S 175.51E 259–2 3.9L
¶16408819

WEL Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=0.0.
WEL IV 05 16 22 47.0–.22 37.15S 176.21E 261–3 3.5L
¶601003530

WEL Event type ke. Error ellipse: s-maj=6.8km s-min=5.6km az=90.0.
WEL IV 06 05 50 34.1–.14 38.48S 177.79E 63–1 3.6L
¶16413333

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0.
ISC IV 07 22 12 43.3–.89 39.66S–.03 174.42E–.03 143–5 3.5b 259 0-153
ISCJB IV 07 22 12 42.5–.32 39.64S–.02 174.39E–.03 139–3 3.4b **¶16414396**
IDC IV 07 22 12 42.7–1.6 39.60S 174.46E 112–20 3.8,3.6
NEIC IV 07 22 12 44.0 39.62S 174.44E 136 4.6,3.6
WEL IV 07 22 12 44.1–.18 39.62S 174.44E 135–1 4.6L,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.1km az=34.3.
IDC Error ellipse: s-maj=28.1km s-min=17.1km az=136.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt between Waikato, Manawatu and Taranaki, maximum reported intensity MM 4.
WEL IV 10 19 04 37.9–.29 37.93S 176.59E 134–2 3.7L
¶16416809

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.2km az=0.0.
ISC IV 11 00 33 58.9–.46 40.28S–.02 176.33E–.02 31–3 4.5b 293 0-165
ISCJB IV 11 00 33 58.7–.23 40.30S–.02 176.45E–.03 44–2 4.5b **¶16418226**
WEL IV 11 00 33 59.7–.06 40.32S 176.49E 41–1 5.2L
IDC IV 11 00 33 59.4–.65 40.08S 176.29E 31–3 4.4,4.4
NEIC IV 11 00 33 59.9 40.28S 176.38E 34 5.1L,5.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=28.7.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt from Auckland to Wellington, and from Taranaki to Gisborne, maximum. reported intensity MM 6.
IDC Error ellipse: s-maj=20.3km s-min=16.9km az=61.0.
NEIC Event type fe. Felt widely in the southern part of the North Island. After WEL.
WEL IV 13 13 57 36.8–.05 39.87S 175.11E 33 3.5L
¶16427207

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt between King Country, Manawatu and Whanganui, maximum reported intensity. MM 5.
WEL IV 13 15 04 14.4–.17 37.93S 176.46E 139–1 3.9L
¶16427208

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0.
WEL IV 14 10 14 52.9–.11 40.30S 176.58E 25–0 3.6L
¶16427237

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt from Hawke''s Bay to Wairarapa, maximum reported intensity MM 4.
ISC IV 16 11 15 19.6–.61 38.43S–.04 175.89E–.04 196–5 3.7b 296 0-154
BJI IV 16 11 15 17.5 38.65S 176.61E 211 4.6b **¶16440153**
ISCJB IV 16 11 15 18.7–.24 38.38S–.02 175.88E–.04 200–2 3.8b
IDC IV 16 11 15 18.9–.54 38.39S 176.04E 188–6 4.1,3.6
NEIC IV 16 11 15 19.9 38.26S 175.99E 194 4.1b,3.6
WEL IV 16 11 15 20.4–.26 38.26S 176.00E 190–2 5.1L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=15.2.
IDC Error ellipse: s-maj=23.0km s-min=18.5km az=20.0.
NEIC Event type fe. Widely felt on the North Island. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.0km az=90.0. Felt between Bay of Plenty, Nelson and Gisborne, maximum reported intensity. MM 5.
WEL IV 17 22 10 34.2–.38 37.60S 176.21E 192–3 3.5L
¶16444282

WEL Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=90.0.
WEL IV 18 06 25 40.5–.44 39.08S 175.04E 234–3 3.5L
¶601003903

WEL Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=90.0.
WEL IV 19 12 43 46.2–.42 38.75S 175.18E 216–3 3.9L
¶16448794

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=90.0.
WEL IV 20 11 30 21.4–.26 37.89S 176.42E 170–2 3.8L
¶16450377

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=0.0.
WEL IV 21 13 43 38.0–.33 38.23S 175.92E 171–2 3.9L
¶16451719

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=90.0.
WEL IV 22 03 05 29.8–.39 39.03S 175.03E 201–3 3.9L
¶16451722

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=2.0km az=0.0.
WEL IV 23 23 30 22.4–.49 38.44S 175.87E 164–3 3.5L
¶16452983

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=90.0.
WEL IV 24 07 47 13.1–.41 38.29S 176.05E 156–3 3.7L
¶16456743

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=0.0.
WEL IV 25 05 27 30.1–.25 37.23S 176.28E 216–2 3.7L
¶16460253

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=3.7km az=90.0.
WEL IV 25 19 05 29.3–.31 38.13S 176.15E 150–4 3.5L
¶16463556

WEL Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=90.0.
ISC IV 26 04 39 40.7–.78 37.56S–.06 176.62E–.06 187–6 4.2b 116 0-144
ISCJB IV 26 04 39 39.3–.42 37.63S–.04 176.58E–.06 202–4 4.0b **¶16460255**
IDC IV 26 04 39 39.3–1.3 37.96S 176.97E 198–12 4.6,4.1
WEL IV 26 04 39 40.9–.25 37.43S 176.73E 178–1 5.2L,4.1
NEIC IV 26 04 39 41.2 37.44S 176.72E 174 4.4b,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.6km az=12.7.
IDC Error ellipse: s-maj=48.0km s-min=22.8km az=126.0.
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=0.0.
NEIC Event type se. After WEL.
WEL IV 26 05 14 25.3–.08 39.27S 175.08E 28–0 3.5L
¶601004170

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt from Waikato to Nelson, maximum reported intensity MM 4.
ISC IV 26 10 28 49.6–.78 40.12S–.03 176.93E–.04 26–5 4.2b 200 0-153
IDC IV 26 10 28 46.0–.99 40.07S 176.84E 0 4.5,4.3 **¶16460261**
ISCJB IV 26 10 28 48.9–.45 40.16S–.02 176.98E–.05 33–2 4.3b,3.4s
NEIC IV 26 10 28 49.5 40.14S 176.98E 22 4.8b,4.6L
WEL IV 26 10 28 49.7–.15 40.14S 176.99E 24–1 4.6L,4.6L
ISC Event type fe.
IDC Error ellipse: s-maj=29.6km s-min=21.4km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=2.9km az=27.9.
NEIC Event type fe. Felt in Hawke's Bay County. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt from Hawke''s Bay to Wellington, maximum reported intensity MM 5.
WEL IV 28 05 22 57.3–.41 39.10S 175.23E 146–3 3.6L
¶16482435

WEL Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=90.0.
WEL IV 28 23 04 10.5–.38 38.46S 175.89E 172–3 4.1L
NEIC IV 28 23 04 09.5 38.45S 175.85E 181 4.1 **¶16482440**
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=0.0.
NEIC Event type se. After WEL.
WEL IV 29 18 50 52.0–.11 38.60S 177.87E 25–1 4.0L
NEIC IV 29 18 50 51.8 38.61S 177.92E 26 4.2b,4.0L **¶16485263**

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.8km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Gisborne. After WEL.
WEL IV 29 18 53 24.2–.11 38.61S 177.88E 26–1 3.8L
¶16485264

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=1.0km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
WEL V 01 14 48 39.9–.39 39.14S 174.81E 221–2 3.6L
¶601004379

WEL Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=90.0.
WEL V 02 01 25 23.6–1.1 38.15S 175.72E 164–9 3.6L
¶601004402

WEL Event type ke. Error ellipse: s-maj=8.7km s-min=6.4km az=90.0.
WEL V 02 18 55 22.2–.37 38.77S 177.91E 28–3 2.5L
¶16489316

WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=90.0.
WEL V 03 03 52 16.1–.40 37.64S 176.00E 242–4 3.9L
NEIC V 03 03 52 15.6 37.58S 175.98E 244 4.0 **¶16493550**
WEL Event type ke. Error ellipse: s-maj=5.2km s-min=4.6km az=90.0.
NEIC Event type se. After WEL.
WEL V 04 23 07 57.1–.41 37.05S 176.67E 185–3 4.0L
¶16497715

WEL Event type ke. Error ellipse: s-maj=4.8km s-min=4.7km az=0.0.
ISC V 06 03 59 31.3–.62 38.40S–.04 175.95E–.04 173–5 4.6b 201 0-154
IDC V 06 03 59 29.5–.78 37.74S 176.52E 174–6 4.2,3.9 **¶16497782**
ISCJB V 06 03 59 30.3–.24 38.31S–.02 175.94E–.04 177–2 4.6b,3.9
NEIC V 06 03 59 30.9 38.17S 176.04E 174 4.3b,3.9
WEL V 06 03 59 31.3–.27 38.18S 176.05E 171–2 5.2L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=19.9km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=19.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=1.1km az=90.0. Felt from Bay of Plenty to Nelson, maximum reported intensity MM 4.
WEL V 07 03 56 55.1–.61 37.81S 175.95E 166–5 3.5L
¶601004604

WEL Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=90.0.
WEL V 07 22 26 21.7–.29 37.88S 176.04E 162–3 3.7L
¶601004626

WEL Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=90.0.
WEL V 08 00 10 59.6–.11 38.36S 177.16E 42–2 3.5L
¶16501021

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0.
WEL V 08 15 52 59.5–.34 38.37S 175.66E 175–2 3.6L
¶16501023

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=0.0.
WEL V 09 07 28 36.3–.10 40.64S 176.05E 29–1 3.6L
¶16501026

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Wairarapa region, maximum reported intensity MM 4.
ISC V 11 04 37 32.6–.60 38.26S–.04 177.49E–.04 88–4 4.9b 224 0-155
IDC V 11 04 37 30.9–1.2 38.36S 177.56E 76–6 4.7,4.6 **¶16505619**
ISCJB V 11 04 37 31.7–.26 38.22S–.02 177.53E–.03 91–2 4.8b,4.6
WEL V 11 04 37 32.8–.14 38.05S 177.55E 79–1 5.0L,4.6
NEIC V 11 04 37 32.6 38.05S 177.55E 81 5.0L,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=24.8km s-min=19.6km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.4km az=32.8.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt between Bay of Plenty, Wellington and Gisborne, maximum reported. intensity MM 5.
NEIC Event type fe. Felt in parts of the North Island. After WEL.
WEL V 11 06 58 36.9–.37 38.33S 175.82E 188–5 3.5L
¶601004791

WEL Event type ke. Error ellipse: s-maj=6.9km s-min=6.6km az=0.0.
WEL V 11 15 45 24.4–.36 37.89S 176.03E 148–8 3.1L
¶601004804

WEL Event type ke. Error ellipse: s-maj=5.9km s-min=5.7km az=0.0.
WEL V 12 01 03 52.9–.54 38.24S 176.03E 176–4 3.8L
¶16506436

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=90.0.
WEL V 12 06 38 49.1–.34 37.13S 176.33E 316–4 3.6L
¶16509191

WEL Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=90.0.
WEL V 12 18 18 54.5–.40 37.01S 176.26E 265–5 3.3L
¶601004850

WEL Event type ke. Error ellipse: s-maj=6.4km s-min=5.3km az=90.0.
WEL V 13 02 40 37.5–.65 38.23S 175.93E 154–5 3.6L
¶16509194

WEL Event type ke. Error ellipse: s-maj=4.7km s-min=4.1km az=90.0.
WEL V 15 04 01 25.2–.37 38.92S 175.03E 219–3 4.0L
NEIC V 15 04 01 24.1 38.90S 174.96E 227 4.0 **¶16512088**
WEL Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=90.0.
NEIC Event type se. After WEL.
WEL V 15 09 36 18.1–.33 37.80S 176.21E 197–2 4.1L
NEIC V 15 09 36 14.2 37.77S 176.25E 235 4.1 **¶16512096**
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.9km az=90.0.
NEIC Event type se. After WEL.
WEL V 15 11 42 32.1–.19 38.61S 176.29E 87–2 3.7L
¶16520434

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.8km az=90.0.
WEL V 15 18 14 48.1–.49 38.08S 175.75E 150–7 3.5L
¶601004970

WEL Event type ke. Error ellipse: s-maj=8.7km s-min=3.3km az=90.0.
WEL V 16 10 04 28.2–.06 39.24S 175.42E 13–0 3.4L
¶16523288

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt from King Country to Whanganui, maximum reported intensity MM 4.
WEL V 17 06 27 58.6–.42 39.21S 174.78E 212–4 3.5L
¶601005032

WEL Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=90.0.
WEL V 18 23 10 44.3–.06 40.61S 175.14E 42–1 4.2L
NEIC V 18 23 10 44.3 40.61S 175.14E 42 4.2L **¶16528396**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt between Taranaki, Wellington and Hawke''s Bay, maximum reported intensity. MM 4.
NEIC Event type fe. Felt at Manawatu and Wellington. After WEL.
WEL V 19 18 54 08.6–.15 38.68S 176.41E 73–1 3.5L
¶16530154

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.9km az=0.0.
WEL V 20 07 53 54.7–.25 40.03S 176.70E 45–2 2.7L
¶601005126

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=90.0.
WEL V 21 16 01 55.1–.39 37.65S 175.98E 270–3 4.0L
NEIC V 21 16 01 54.7 37.64S 176.01E 274 4.0 **¶16532342**
WEL Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=0.0.
NEIC Event type se. After WEL.
WEL V 21 22 51 50.3–.12 37.66S 177.00E 2 3.5L
¶601005994

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=0.0.
WEL V 21 23 02 52.2–.14 37.64S 176.98E 5 3.9L
¶16532356

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=1.0km az=0.0.
WEL V 22 01 25 38.6–.11 40.44S 175.08E 27–1 3.9L
NEIC V 22 01 25 38.7 40.42S 175.10E 28 3.9L **¶16532362**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from Whanganui to Wellington, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Kapiti-Manawatu area. After WEL.
WEL V 22 15 47 10.9–.16 37.62S 176.99E 5 3.5L
¶601006031

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=0.0.
WEL V 23 00 25 34.8–.23 38.07S 176.31E 154–2 4.0L
NEIC V 23 00 25 34.2 38.06S 176.30E 159 4.0 **¶16534860**

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=0.0.
NEIC Event type se. After WEL.
NEIC V 23 00 59 27.8 38.62S 176.22E 2 4.7L
¶16534861

NEIC Event type se. After WEL.
WEL V 23 15 30 37.8–.23 38.47S 176.01E 153–2 4.2L
NEIC V 23 15 30 37.9 38.47S 176.00E 152 4.2 **¶16537226**
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0.
NEIC Event type se. After WEL.
ISC V 26 05 31 36.9–.96 37.94S–.05 176.60E–.04 150 169 0-150
IDC V 26 05 31 35.0–.83 38.13S 176.69E 173–11 3.7,3.3 **¶16546012**
NEIC V 26 05 31 37.8 37.83S 176.67E 160 4.4,3.3
WEL V 26 05 31 37.5–.30 37.85S 176.64E 164–2 4.6L,3.3
ISCJB V 26 05 31 39.0–.35 38.02S–.04 176.61E–.05 150 3.1b,3.3
ISC Event type ke.
NEIC Event type se. After WEL.
WEL Event type ke.
ISCJB Event type ke.
WEL V 26 09 48 02.1–.36 38.63S 175.72E 151–3 3.8L
¶16549418

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=0.0.
WEL V 27 07 13 37.1–.54 37.73S 176.60E 138–3 3.5L
¶16549422

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=3.6km az=0.0.
WEL V 27 08 59 06.7–.25 37.63S 176.95E 118–2 3.7L
¶16551143

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=0.0.
WEL V 28 15 47 52.5–.32 37.39S 176.56E 215–2 4.6L
NEIC V 28 15 47 52.4 37.39S 176.53E 214 4.7 **¶16551350**
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=1.4km az=0.0.
NEIC Event type se. After WEL.
WEL V 28 21 32 20.0–.34 37.64S 176.05E 259–3 3.5L
¶16551406

WEL Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=90.0.
WEL V 29 07 39 55.8–.11 38.54S 177.90E 24–1 3.6L
¶16551465

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
WEL V 29 09 30 44.8–.10 38.23S 177.02E 63–1 4.1L
NEIC V 29 09 30 44.8 38.24S 177.03E 64 4.1L **¶16551478**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt from Bay of Plenty to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Taneatua. After WEL.
WEL V 30 05 41 44.6–.34 40.44S 176.81E 14–2 3.6L
¶16551567

WEL Event type ke. Error ellipse: s-maj=3.1km s-min=1.6km az=90.0.
WEL V 30 10 31 15.9–.16 40.34S 176.78E 30–1 3.7L
¶16551571

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.
WEL V 31 02 03 08.0–.37 37.45S 176.39E 188–3 3.5L
¶601006289

WEL Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=90.0.
WEL V 31 03 11 07.3–.40 38.25S 175.90E 165–3 3.6L
¶16551670

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=0.0.
WEL VI 03 07 47 00.5–.11 38.35S 177.20E 40–1 3.7L
¶601026892

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0.
ISC VI 03 10 41 43.5–.83 38.41S–.03 177.19E–.03 48–5 4.0b 228 0-155
ISCJB VI 03 10 41 42.9–.38 38.42S–.03 177.24E–.04 73–4 4.0b **¶16556042**
IDC VI 03 10 41 43.7–1.2 38.35S 177.13E 41–10 4.0,4.0
WEL VI 03 10 41 44.9–.11 38.34S 177.19E 46–2 4.4L,4.0
NEIC VI 03 10 41 44.3 38.31S 177.24E 51 4.4L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.2km az=164.6.
IDC Error ellipse: s-maj=27.1km s-min=24.9km az=35.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt from Bay of Plenty to Hawke''s Bay, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Bay of Plenty-Gisborne-Hawke's Bay area. After WEL.
WEL VI 06 12 57 30.3–.32 38.32S 175.82E 204–2 4.0L
NEIC VI 06 12 57 30.6 38.33S 175.81E 202 4.0 **¶16578068**
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=90.0.
NEIC Event type se. After WEL.
WEL VI 07 01 24 23.4–.57 38.34S 175.75E 173–4 3.5L
¶601027020

WEL Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=90.0.
WEL VI 08 02 42 14.0–.31 37.55S 175.77E 265–3 3.5L
¶16578083

WEL Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=90.0.
WEL VI 08 14 24 30.7–.41 38.58S 175.31E 214–3 3.7L
¶16578085

WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=0.0.
WEL VI 08 17 01 57.3–.40 39.40S 174.48E 204–3 3.7L
¶16578086

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=90.0.
WEL VI 09 01 38 02.4–.35 38.00S 176.57E 143–3 3.6L
¶601027080

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=90.0.
WEL VI 09 22 43 17.0–.36 38.86S 175.36E 166–3 3.6L
¶16587351

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=90.0.
WEL VI 11 13 34 27.8–.40 39.21S 174.81E 222–3 3.6L
¶16591624

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=90.0.
WEL VI 15 16 09 02.8–.61 37.28S 175.90E 214–6 3.6L
¶16631884

WEL Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=90.0.
WEL VI 16 00 26 23.2–.75 37.57S 175.85E 203–9 3.5L
¶601027579

WEL Event type ke. Error ellipse: s-maj=14.8km s-min=8.5km az=90.0.
WEL VI 16 05 16 32.0–.37 37.33S 176.34E 189–4 3.7L
¶16631885

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=90.0.
WEL VI 16 11 58 49.2–.35 38.20S 175.81E 184–3 3.5L
¶16631887

WEL Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=90.0.
WEL VI 17 03 33 27.3–.48 38.25S 175.84E 163–4 3.9L
NEIC VI 17 03 33 26.1 38.21S 175.81E 174 4.0 **¶16633269**
WEL Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=0.0.
NEIC Event type se. After WEL.
WEL VI 17 15 12 46.9–.27 38.95S 175.31E 143–2 4.0L
NEIC VI 17 15 12 45.6 38.94S 175.28E 156 4.0 **¶16633270**
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=1.4km az=0.0.
NEIC Event type se. After WEL.
WEL VI 18 03 29 46.3–.23 38.01S 176.60E 135–2 3.9L
¶16633272

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=0.0.
WEL VI 18 04 45 56.3–.64 37.08S 176.66E 300–6 3.9L
¶16633273

WEL Event type ke. Error ellipse: s-maj=15.4km s-min=9.6km az=0.0.
WEL VI 19 03 17 40.9–.25 40.96S 176.74E 33 2.7L
¶601027683

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.5km az=90.0.
WEL VI 19 13 33 36.2–.24 37.97S 176.37E 164–2 4.0L
NEIC VI 19 13 33 36.4 37.95S 176.34E 161 4.0 **¶16638767**
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=90.0.
NEIC Event type se. After WEL.
WEL VI 19 16 33 17.8–.14 39.12S 175.52E 105–1 3.7L
¶16638783

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0.

WEL VI 21 22 29 00.9–.29 39.41S 174.50E 204–2 3.7L
¶601027775

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=90.0.
ISC VI 23 00 31 56.5–.72 37.03S–.06 176.68E–.06 303–5 3.8b 158 1-156
IDC VI 23 00 31 54.6–1.5 36.78S 176.98E 288–13 4.3,3.9 **¶16646159**
ISCJB VI 23 00 31 56.5–.39 37.04S–.05 176.71E–.07 312–4 3.9b,3.9
NEIC VI 23 00 31 58.9 36.86S 176.88E 276 4.0b,3.9
WEL VI 23 00 31 58.8–.57 36.87S 176.88E 278–4 5.1L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=25.6km az=16.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.1km az=29.8.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=6.6km s-min=3.6km az=0.0.
WEL VI 23 18 49 02.0–.37 38.87S 175.16E 201–3 3.8L
¶16681156

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=2.4km az=90.0.
ISC VI 25 23 45 31.6–.74 37.42S–.06 176.68E–.06 223–5 3.9b 210 0-155
IDC VI 25 23 45 30.2–1.0 37.30S 176.93E 213–8 4.3,3.9 **¶16682698**
ISCJB VI 25 23 45 31.2–.52 37.39S–.04 176.63E–.07 228–4 3.9b,3.9
NEIC VI 25 23 45 31.8 37.24S 176.77E 214 4.7,3.9
WEL VI 25 23 45 32.9–.30 37.26S 176.83E 206–2 4.6L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=21.8km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.0km az=1.5.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=0.0.
WEL VI 26 05 32 24.7–.70 38.60S 175.47E 254–5 3.6L
¶601027925

WEL Event type ke. Error ellipse: s-maj=11.4km s-min=7.9km az=90.0.
WEL VI 26 10 36 33.2–.25 37.55S 176.90E 150–2 3.7L
¶16683814

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=90.0.
WEL VI 26 21 22 12.5–.35 37.59S 176.46E 181–3 4.1L
NEIC VI 26 21 22 12.8 37.60S 176.47E 178 4.1 **¶16683832**
WEL Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=0.0.
NEIC Event type se. After WEL.
WEL VI 27 16 50 27.2–.31 38.90S 175.06E 234–2 4.3L
¶601027966

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=0.0.
WEL VI 27 19 49 31.1–.20 40.46S 176.78E 5 3.8L
¶16684571

WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.1km az=90.0. Felt from Hawke''s Bay to Manawatu, maximum reported intensity MM 4.
WEL VI 28 00 55 47.6–.24 39.65S 174.62E 130–2 3.5L
¶601027979

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0.
WEL VI 28 22 35 15.4–.43 37.58S 176.02E 176–5 3.6L
¶601028015

WEL Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=90.0.
WEL VI 29 03 52 50.5–.85 39.65S 174.03E 207–8 3.5L
¶16715956

WEL Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=90.0.
WEL VI 29 12 55 13.0–.47 38.47S 175.95E 156–4 3.5L
¶601028036

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=2.6km az=90.0.
WEL VI 29 21 38 34.3–.46 39.53S 174.26E 250–3 4.2L
¶601028050

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=90.0.

(160) Off east coast of North Island.

WEL I 01 05 19 36.8–.65 35.42S 178.78E 227–10 3.8L
¶15902498

WEL Event type ke. Error ellipse: s-maj=16.8km s-min=10.6km az=90.0.
WEL I 02 10 30 34.6–.51 35.87S 178.21E 197–5 3.7L
¶600661632

WEL Event type ke. Error ellipse: s-maj=8.8km s-min=7.1km az=90.0.
WEL I 03 04 27 32.2–.57 35.31S 178.30E 235–7 4.0L
NEIC I 03 04 27 34.7 35.45S 178.32E 218 4.1 **¶15902902**
WEL Event type ke. Error ellipse: s-maj=9.8km s-min=7.9km az=90.0.
NEIC Event type se. After WEL.
WEL I 03 19 43 10.1–.37 36.81S 177.49E 140–3 3.7L
¶15902939

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=3.6km az=0.0.
WEL I 04 23 38 45.2–.26 36.50S 177.23E 183–3 3.8L
¶15905613

WEL Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=0.0.
WEL I 07 02 58 18.8–.59 35.35S 178.14E 238–7 4.3L
NEIC I 07 02 58 19.2 35.34S 178.13E 231 4.3 **¶15909677**
WEL Event type ke. Error ellipse: s-maj=9.8km s-min=7.8km az=90.0.
NEIC Event type se. After WEL.
ISC I 08 11 51 37.6–1.2 36.1S–.10 178.4E–.10 254–8 152 1-157
IDC I 08 11 51 30.8–5.3 35.23S 178.79E 193–41 4.3,4.0 **¶15910773**
ISCJB I 08 11 51 36.0–.96 36.10S–.09 178.5E–.20 269–7 3.6b,4.0
NEIC I 08 11 51 35.6 35.74S 178.51E 228 4.4,4.0
WEL I 08 11 51 35.8–.52 35.75S 178.50E 228–5 4.4L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=74.5km s-min=35.0km az=37.0.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=12.6km az=27.5.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=5.8km s-min=5.2km az=0.0.
WEL I 08 21 57 36.2–.45 36.64S 176.80E 238–3 3.6L
¶15910787

WEL Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=90.0.
WEL I 09 15 09 32.0–.36 35.78S 177.99E 180–6 3.7L
NEIC I 09 15 09 29.6 35.66S 178.12E 196 4.1 **¶15915777**
WEL Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=90.0.
NEIC Event type se. After WEL.
WEL I 10 18 03 34.7–.15 39.74S 177.33E 19–1 4.3L
NEIC I 10 18 03 35.0 39.73S 177.28E 19 4.3L **¶15918287**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.9km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Napier and Taradale. After WEL.
WEL I 10 18 15 20.6–.16 39.69S 177.31E 22–1 3.7L
¶15918288

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=90.0.
WEL I 11 15 17 04.0–.41 36.92S 178.17E 33 3.5L
¶600661905

WEL Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=90.0.
ISC I 12 15 47 32.5–.51 39.06S–.02 177.29E–.03 34–1 4.2b,3.6s 244 0-154
IDC I 12 15 47 29.8–1.1 39.07S 176.89E 0 4.4L,4.3 **¶15925902**
NEIC I 12 15 47 33.9 38.93S 177.33E 36 4.6L,4.3
WEL I 12 15 47 33.3–.11 38.97S 177.39E 42–1 4.8L,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=9.9km az=109.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 5.
WEL I 13 07 46 20.8–.45 35.51S 178.29E 231–6 4.0L
NEIC I 13 07 46 20.1 35.45S 178.33E 233 4.0 **¶15925942**
WEL Event type ke. Error ellipse: s-maj=6.6km s-min=5.9km az=90.0.
NEIC Event type se. After WEL.
ISC I 13 12 04 55.3–.28 37.08S–.05 179.58E–.05 33 5.5b,5.1s 532 1-176
WEL I 13 12 04 53.7–.45 36.93S 179.94E 33 5.7L,5.1s **¶16019205**
BJI I 13 12 04 54.0 37.00S 179.50E 41 5.6b,5.5s
ISCJB I 13 12 04 55.2–.17 36.98S–.03 179.54E–.03 33 5.5b,5.1s
MOS I 13 12 04 55.4–1.3 36.83S 179.39E 33 5.6b,5.2s
NEIC I 13 12 04 56.4–.23 36.92S 179.46E 35 5.5L,5.5b
IDC I 13 12 04 56.9–1.6 36.73S 179.48E 39–12 5.3,5.1L
GCMT I 13 12 04 57.1–.10 36.87S 179.82E 19–0 5.5W,5.1L
ISC Event type fe.
WEL Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.3km az=138.1.
MOS Error ellipse: s-maj=12.4km s-min=11.7km az=9.5.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=157.0. Felt at Gisborne.
IDC Error ellipse: s-maj=13.1km s-min=12.5km az=174.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c128; s114,c219; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$-1.04±.02; $M_{\phi\phi}$1.16±.02; $M_{r\theta}$0.01±.04; $M_{\theta\phi}$1.11±.02; $M_{\phi r}$1.17±.07; Best double couple: NP1:ϕ_s338.00000°,δ86.00000°,λ146.00000°. NP2:ϕ_s71.00000°,δ56.00000°,λ5.00000°. Principal axes: T 2.1540,Plg26.0000°,Azm289.0000°; N -0.4870,Plg56.0000°,Azm153.0000°; P -1.6640,Plg20.0000°,Azm30.0000° $M_0$1.90900×10^{17}
ISC I 13 18 55 16.1–.77 37.19S–.06 179.98E–.07 31 4.8b 226 1-156
ISCJB I 13 18 55 13.3–.71 37.14S–.04 179.84W–.07 31 4.8b **¶15927321**
WEL I 13 18 55 17.7–.57 36.93S 179.86E 33 4.7L
NEIC I 13 18 55 17.6 36.95S 179.86E 60 4.8L
IDC I 13 18 55 22.0–5.5 37.35S 179.54E 71–42 4.8,4.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.7km az=7.9.
WEL Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=90.0.
NEIC Event type se. After WEL.
IDC Error ellipse: s-maj=53.2km s-min=25.3km az=50.0.
ISC I 14 19 25 21.6–1.0 37.76S–.04 177.64E–.04 66 72 0-150
IDC I 14 19 25 19.1–8.1 38.03S 176.97E 0 3.5,3.5 **¶15930944**
ISCJB I 14 19 25 21.6–.41 37.79S–.04 177.61E–.04 66 3.3b,3.5
WEL I 14 19 25 23.2–.18 37.75S 177.60E 46–2 3.7L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=465.0km s-min=62.4km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.9km az=28.1.
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=0.0.
WEL I 15 00 22 25.5–.39 41.30S 177.93E 33 3.5L
¶600662012

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=2.1km az=90.0.
NEIC I 16 06 21 08.7 38.35S 178.01E 19 4.2L,3.9b
¶601989415

NEIC Event type se. After WEL.
WEL I 16 08 47 30.2–.35 37.39S 177.48E 101–2 3.3L
¶600662045

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=0.0.
WEL I 17 12 01 40.4–.51 35.08S 178.33E 12 4.0L
¶600662074

WEL Event type ke. Error ellipse: s-maj=7.7km s-min=3.4km az=90.0.
WEL I 20 00 58 35.2–.27 39.64S 178.87E 33 3.6L
¶15942580

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=90.0.
WEL I 20 02 04 14.7–.20 38.50S 178.46E 29–1 3.5L
¶15942581

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=90.0.
WEL I 22 16 16 01.2–.38 35.39S 178.94E 224–9 3.5L
¶600662218

WEL Event type ke. Error ellipse: s-maj=8.9km s-min=8.2km az=0.0.
WEL I 22 16 17 16.2–.49 35.47S 177.79E 33 3.7L
¶600662219

WEL Event type ke. Error ellipse: s-maj=8.9km s-min=3.3km az=90.0.
WEL I 24 08 45 11.2–.31 36.97S 177.12E 168–3 3.7L
¶15963820

WEL Event type ke. Error ellipse: s-maj=3.4km s-min=3.3km az=0.0.
WEL I 25 12 51 32.2–.30 37.18S 177.20E 152–2 3.9L
¶15967671

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=0.0.
WEL I 25 14 44 07.2–.38 36.53S 177.37E 189–4 3.7L
¶15967673

WEL Event type ke. Error ellipse: s-maj=6.3km s-min=5.2km az=90.0.
WEL I 26 12 52 08.2–.27 37.59S 177.26E 125–2 3.6L
¶15972641

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=0.0.
WEL I 27 11 48 36.6–.71 35.12S 178.10E 12 4.1L
¶600662330

WEL Event type ke. Error ellipse: s-maj=12.1km s-min=5.1km az=90.0.
WEL I 27 13 10 02.5–.45 36.06S 177.99E 218–4 4.1L
NEIC I 27 13 10 02.3 36.00S 177.84E 213 4.1 **¶15977702**
WEL Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=90.0.
NEIC Event type se. After WEL.
WEL I 28 11 30 43.4–.67 35.14S 178.00E 33 3.5L
¶600662357

WEL Event type ke. Error ellipse: s-maj=9.6km s-min=4.7km az=90.0.
WEL I 28 16 37 35.4–.27 36.32S 178.38E 234–5 3.5L
¶600662364

WEL Event type ke. Error ellipse: s-maj=10.2km s-min=7.4km az=90.0.
WEL I 30 15 36 52.1–.54 36.54S 177.62E 78–16 3.5L
¶600662412

WEL Event type ke. Error ellipse: s-maj=7.6km s-min=6.7km az=0.0.
WEL I 30 18 53 40.6–.44 37.31S 177.51E 97–3 3.8L
¶15982699

WEL Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=0.0.
ISC I 30 23 39 29.4–1.2 39.02S–.03 178.18E–.06 23–7 3.4s 137 0-155
IDC I 30 23 39 26.5–1.2 39.03S 178.06E 0 4.4,4.2 **¶15982701**
ISCJB I 30 23 39 28.4–.79 39.08S–.03 178.23E–.07 30–4 4.0b,3.4s
NEIC I 30 23 39 31.3 38.93S 178.06E 26 4.2L,3.4s
WEL I 30 23 39 31.4–.15 38.93S 178.05E 27–1 4.2L,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=38.6km s-min=13.5km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=4.3km az=13.7.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 5.
ISC I 30 23 53 26.8–.96 39.02S–.03 178.09E–.05 27–5 4.3b,3.4s 151 0-154
IDC I 30 23 53 23.6–.98 39.10S 178.01E 0 4.4b,4.4 **¶15982702**
ISCJB I 30 23 53 25.1–.79 39.09S–.03 178.24E–.07 30–4 4.3b,3.4s
NEIC I 30 23 53 28.9 38.93S 177.99E 27 4.2L,3.4s
WEL I 30 23 53 28.5–.14 38.94S 178.04E 28–0 4.2L,3.4s
ISC Event type fe.
IDC Error ellipse: s-maj=32.5km s-min=12.7km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.0km az=14.8.
NEIC Event type fe. Felt at Gisborne. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.8km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
ISC I 31 01 00 38.4–.93 38.99S–.03 178.08E–.04 27–5 94 0-154
IDC I 31 01 00 35.6–1.3 38.65S 177.92E 0 4.5,4.2 **¶15982703**
ISCJB I 31 01 00 37.9–.50 39.01S–.03 178.12E–.05 36–6 3.8b,4.2
NEIC I 31 01 00 39.8 38.91S 178.02E 28 4.1L,4.2
WEL I 31 01 00 39.5–.15 38.93S 178.05E 28–1 4.0L,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=57.6km s-min=39.3km az=11.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=18.2.
NEIC Event type fe. Felt at Gisborne. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=1.1km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
WEL I 31 10 33 36.4–.15 38.96S 178.10E 26–0 3.8L
¶15982708

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt from Gisborne to Hawke''s Bay, maximum reported intensity MM 4.
ISC II 03 18 01 01.8–1.5 37.11S–.07 178.42E–.08 35 102 0-150
IDC II 03 18 00 52.6–2.6 36.74S 178.88E 0 4.3,4.0 **¶16007038**
ISCJB II 03 18 00 59.6–1.0 36.98S–.04 178.57E–.09 35 3.9b,4.0
NEIC II 03 18 01 01.0 36.93S 178.42E 29 4.0L,4.0
WEL II 03 18 01 02.1–.53 36.99S 178.38E 33 4.0L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=63.3km s-min=39.6km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.1km az=159.0.

NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=90.0.
WEL II 03 18 46 24.6–.45 35.96S 178.15E 174–6 3.8L
¶602330964

WEL Event type ke. Error ellipse: s-maj=8.1km s-min=5.9km az=90.0.
WEL II 05 12 48 19.7–.30 37.60S 177.40E 114–2 3.6L
¶602331017

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=0.0.
WEL II 06 00 08 50.2–1.7 35.89S 178.38E 33 3.8L
¶16007688

WEL Event type ke. Error ellipse: s-maj=13.7km s-min=13.0km az=90.0.
WEL II 08 20 55 36.0–.52 40.47S 178.82E 33 3.6L
¶16014957

WEL Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=90.0.
WEL II 09 17 02 51.4–.57 35.47S 178.21E 228–12 3.5L
¶602332961

WEL Event type ke. Error ellipse: s-maj=15.2km s-min=13.0km az=90.0.
WEL II 11 09 57 21.1–.32 37.44S 179.34E 33 3.5L
¶602333021

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=90.0.
WEL II 14 02 15 54.4–.54 37.49S 179.38E 33 3.5L
¶602333083

WEL Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=90.0.
ISC II 14 06 53 50.2–1.7 37.64S–.08 179.33E–.09 29 89 1-145
ISCJB II 14 06 53 48.1–.95 37.60S–.06 179.45E–.07 29 3.3b **¶16025687**
NEIC II 14 06 53 48.4 37.49S 179.41E 18 4.0L
WEL II 14 06 53 49.8–.44 37.46S 179.36E 33 4.0L
IDC II 14 06 53 51.0–7.1 35.33S 178.94E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.4km az=31.7.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=90.0.
IDC Error ellipse: s-maj=344.6km s-min=103.9km az=173.0.
ISC II 14 08 20 30.4–2.1 37.92S–.06 179.17E–.10 28–12 136 1-151
NEIC II 14 08 20 30.4 37.85S 179.19E 24 4.0L **¶16025688**
WEL II 14 08 20 31.8–.28 37.84S 179.11E 33 4.0L
IDC II 14 08 20 34.8–6.2 35.20S 178.19E 0 3.6,3.6
ISC Event type ke.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.2km az=90.0.
IDC Error ellipse: s-maj=300.4km s-min=57.6km az=168.0.
ISC II 14 15 13 55.6–2.2 37.68S–.06 179.59E–.10 31–13 177 1-151
ISCJB II 14 15 13 55.8–1.1 37.67S–.04 179.56E–.06 30–6 3.8s,3.3b **¶16025693**
IDC II 14 15 13 55.2–6.0 34.03S 179.57E 0 3.8s,3.8
NEIC II 14 15 13 58.6 37.54S 179.35E 21 4.1L,3.8
WEL II 14 15 13 58.5–.30 37.49S 179.41E 33 4.1L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.6km az=145.6.
IDC Error ellipse: s-maj=295.9km s-min=53.0km az=165.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=0.0.
WEL II 14 23 42 54.2–.30 36.62S 177.67E 127–4 3.6L
¶602333111

WEL Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=90.0.
WEL II 15 13 23 37.8–.29 35.54S 178.81E 255–5 3.7L
¶602333127

WEL Event type ke. Error ellipse: s-maj=7.5km s-min=7.5km az=0.0.
ISC II 15 22 21 50.0–1.2 36.72S–.09 177.02E–.10 321–8 172 1-149
ISCJB II 15 22 21 48.1–.67 36.71S–.07 177.1E–.10 337–7 2.9b **¶16027433**
IDC II 15 22 21 48.7–1.9 36.77S 177.41E 314–24 3.6,3.1
WEL II 15 22 21 52.6–.45 36.69S 177.22E 296–4 4.2L,3.1
NEIC II 15 22 21 52.0 36.44S 176.74E 271 4.2,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=7.6km az=29.1.
IDC Error ellipse: s-maj=69.8km s-min=39.6km az=171.0.
WEL Event type ke. Error ellipse: s-maj=7.1km s-min=4.3km az=0.0.
NEIC Event type se. After WEL.
ISC II 16 10 16 27.3–1.4 35.3S–.10 179.4E–.10 277–8 3.6b 104 2-149
IDC II 16 10 16 22.2–5.8 34.79S 179.42E 215–57 4.3,3.9 **¶17192362**
ISC Event type ke.
IDC Error ellipse: s-maj=75.7km s-min=41.1km az=13.0.
WEL II 16 21 46 52.9–.43 36.91S 177.69E 114–4 3.5L
¶602333180

WEL Event type ke. Error ellipse: s-maj=5.2km s-min=4.3km az=90.0.
ISC II 17 02 50 44.2–.90 37.52S–.06 177.58E–.04 100–6 3.3b 139 0-150
IDC II 17 02 50 25.2–1.5 38.36S 178.32E 0 3.8,3.7 **¶16031871**
ISCJB II 17 02 50 42.0–.79 37.59S–.05 177.65E–.06 129–5 3.3b,3.7
WEL II 17 02 50 44.4–.31 37.44S 177.57E 97–2 4.1L,3.7
NEIC II 17 02 50 44.0 37.42S 177.58E 99 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=47.4km s-min=33.1km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.6km az=30.9.
WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=0.0.
NEIC Event type se. After WEL.
WEL II 18 03 12 29.7–.58 35.70S 178.62E 226–8 3.6L
¶602335669

WEL Event type ke. Error ellipse: s-maj=15.8km s-min=10.5km az=90.0.
WEL II 18 21 09 13.0–.40 36.89S 177.05E 230–3 4.0L
¶602335694

WEL Event type ke. Error ellipse: s-maj=4.4km s-min=2.6km az=0.0.
ISC II 19 00 18 54.2–1.3 38.29S–.03 178.43E–.05 14–7 4.7b 175 0-155
ISCJB II 19 00 18 52.3–.73 38.26S–.03 178.57E–.07 10 4.6b **¶16032954**
IDC II 19 00 18 57.0–8.3 38.42S 178.29E 29–54 4.6,4.6
NEIC II 19 00 18 57.4 38.23S 178.31E 20 4.5L,4.6
WEL II 19 00 18 57.5–.13 38.21S 178.27E 17–1 4.5L,4.4W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.6km az=170.0.
IDC Error ellipse: s-maj=39.3km s-min=25.2km az=37.0.
NEIC Event type fe. Felt widely in Gisborne. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
WEL II 19 00 39 58.8–.52 38.76S 179.43E 12 3.7L
¶602335736

WEL Event type ke. Error ellipse: s-maj=4.9km s-min=2.0km az=90.0.
WEL II 19 00 58 27.3–.40 38.79S 179.58E 33 3.6L
¶16032956

WEL Event type ke. Error ellipse: s-maj=4.1km s-min=1.7km az=90.0.
WEL II 20 16 29 41.4–.37 36.45S 177.24E 33 3.7L
¶602335809

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=0.0.
ISC II 20 20 53 29.4–2.0 36.47S–.07 177.25E–.05 2–13 3.8b 28 1-156
IDC II 20 20 53 28.4–1.9 36.43S 177.62E 0 4.2,4.0b **¶16057018**
ISCJB II 20 20 53 30.8–1.7 36.52S–.06 177.20E–.06 10–12 3.9b,4.0b
WEL II 20 20 53 33.8–.38 36.47S 177.26E 33 4.3L,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=48.4km s-min=25.0km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=5.3km az=38.3.
WEL Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=0.0.
ISC II 20 21 09 02.4–1.7 36.43S–.05 177.36E–.04 4–10 4.2b,3.4s 63 1-156
IDC II 20 21 09 01.9–1.3 36.46S 177.68E 0 4.5,4.3b **¶16057019**
WEL II 20 21 09 03.6–.37 36.23S 177.48E 33 4.8L,4.3b
NEIC II 20 21 09 04.5 36.34S 177.35E 24 4.7L,4.7L
ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=28.6km az=75.0.
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=0.0.
NEIC Event type se. After WEL.
ISC II 20 21 18 48.8–1.4 36.4S–.10 177.32E–.07 35 22 1-156
IDC II 20 21 18 43.9–3.2 36.46S 177.55E 0 3.6,3.5 **¶17192605**
ISCJB II 20 21 18 47.4–.97 36.51S–.06 177.33E–.07 33 3.4b,3.5
WEL II 20 21 18 47.0–.62 36.37S 177.37E 33 3.9L,3.5
ISC Event type ke.

IDC Error ellipse: s-maj=71.4km s-min=26.7km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.3km az=40.0.
WEL Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=0.0.
WEL II 22 13 17 32.3–.35 37.55S 179.38E 12 3.5L
¶16160414

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=90.0.
WEL II 22 22 02 01.6–.68 35.78S 179.01E 33 3.5L
¶602336740

WEL Event type ke. Error ellipse: s-maj=11.9km s-min=6.6km az=90.0.
WEL II 24 13 24 06.6–.70 36.33S 178.17E 33 3.6L
¶602337195

WEL Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=90.0.
WEL II 25 05 34 51.9–.46 36.19S 177.70E 217–7 3.6L
¶602337317

WEL Event type ke. Error ellipse: s-maj=13.8km s-min=11.2km az=90.0.
WEL II 25 15 12 20.0–.49 36.14S 178.08E 175–4 3.8L
¶602337360

WEL Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=90.0.
WEL II 26 04 09 37.8–.86 36.11S 177.97E 240–5 4.4L
NEIC II 26 04 09 45.6 36.98S 177.34E 269 4.3 **¶16160463**
WEL Event type ke. Error ellipse: s-maj=8.1km s-min=7.4km az=0.0.
NEIC Event type se. After WEL.
WEL II 26 11 59 25.8–.25 38.41S 178.57E 30–2 3.7L
¶16160468

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.1km az=90.0.
WEL II 26 18 20 39.8–.33 38.23S 178.50E 26–2 3.6L
¶16160473

WEL Event type ke. Error ellipse: s-maj=3.9km s-min=1.4km az=90.0.
ISC II 27 12 57 44.1–1.7 37.16S–.06 179.38E–.08 33–3 169 1-151
NEIC II 27 12 57 44.2 37.02S 179.13E 5 4.1L **¶16168270**
WEL II 27 12 57 45.4–1.3 36.87S 179.10E 33 4.1L
IDC II 27 12 57 50.0–4.4 37.97S 179.37E 97–28 4.0,3.9
ISC Event type ke.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=14.1km s-min=11.8km az=0.0.
IDC Error ellipse: s-maj=40.7km s-min=37.2km az=102.0.
ISC II 27 21 16 07.2–.80 37.33S–.04 177.80E–.04 70–6 4.0b 120 0-156
ISCJB II 27 21 16 07.8–.50 37.36S–.03 177.75E–.04 75–4 3.9b **¶16168294**
IDC II 27 21 16 08.7–2.4 37.67S 177.86E 88–18 4.0,4.0
NEIC II 27 21 16 09.0 37.28S 177.74E 33 4.3L,4.0
WEL II 27 21 16 09.1–.24 37.31S 177.71E 52–3 4.3L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=152.7.
IDC Error ellipse: s-maj=47.5km s-min=33.2km az=25.0.
NEIC Event type fe. Felt at Whakatane. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.4km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.
WEL II 28 05 58 43.0–.55 36.50S 177.02E 253–7 3.5L
¶602337676

WEL Event type ke. Error ellipse: s-maj=9.1km s-min=6.0km az=90.0.
WEL III 01 17 45 05.7–.11 39.31S 177.68E 33 3.5L
¶16172140

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0.
WEL III 04 23 48 01.3–.43 36.55S 177.12E 12 3.7L
¶600710575

WEL Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=0.0.
WEL III 05 16 28 33.4–.16 39.16S 178.02E 24–0 3.3L
¶600710673

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=90.0.
WEL III 05 16 28 57.5–.27 39.20S 178.02E 26–1 3.0L
¶600710676

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=90.0.
WEL III 09 13 43 36.1–.44 37.22S 177.59E 120–3 4.0L
NEIC III 09 13 43 36.4 37.23S 177.58E 117 4.0 **¶16298768**
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=0.0.
NEIC Event type se. After WEL.
ISC III 09 23 27 04.7–1.2 36.9S–.10 177.13E–.07 200 4.0b 111 1-156
NEIC III 09 23 27 04.2 36.54S 177.37E 194 3.9b **¶16298787**
ISCJB III 09 23 27 04.1–.67 36.74S–.06 177.07E–.06 200 4.0b
WEL III 09 23 27 05.1–.68 36.60S 177.42E 191–6 4.6L
IDC III 09 23 27 14.2–6.7 38.46S 177.80E 386–56 4.2,3.7
ISC Event type fe.
NEIC Event type fe. Felt at Ureweras. After WEL.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=171.8.
WEL Event type ke. Error ellipse: s-maj=9.1km s-min=7.6km az=90.0.
IDC Error ellipse: s-maj=69.3km s-min=30.3km az=47.0.
WEL III 11 14 34 56.3–.60 36.75S 177.33E 180–5 4.1L
NEIC III 11 14 34 55.0 36.65S 177.28E 182 4.1 **¶16309751**
WEL Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=0.0.
NEIC Event type se. After WEL.
ISC III 11 15 52 01.0–.79 37.43S–.06 177.38E–.05 163–5 4.1b 212 0-156
IDC III 11 15 51 49.5–9.6 36.92S 178.06E 71–74 4.3,4.2 **¶16309752**
ISCJB III 11 15 51 58.9–.69 37.40S–.04 177.48E–.07 180–4 4.1b,4.2
NEIC III 11 15 52 01.7 37.24S 177.41E 141 4.6,4.2
WEL III 11 15 52 01.5–.29 37.21S 177.42E 142–2 4.6L,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=80.7km s-min=29.0km az=43.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.2km az=155.1.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=0.0.
WEL III 11 22 43 17.8–.53 36.55S 177.72E 154–5 4.3L
NEIC III 11 22 43 17.8 36.55S 177.73E 155 4.3 **¶16309753**
WEL Event type ke. Error ellipse: s-maj=6.4km s-min=3.4km az=0.0.
NEIC Event type se. After WEL.
WEL III 13 13 54 11.9–.85 35.73S 178.60E 213–6 4.2L
¶16313900

WEL Event type ke. Error ellipse: s-maj=9.7km s-min=8.2km az=0.0.
WEL III 14 08 16 51.6–.49 36.24S 177.93E 151–11 4.0L
NEIC III 14 08 16 52.2 36.37S 177.93E 161 4.0 **¶16315867**
WEL Event type ke. Error ellipse: s-maj=9.2km s-min=7.3km az=0.0.
NEIC Event type se. After WEL.
WEL III 15 09 54 58.1–.64 35.44S 178.67E 206–11 3.7L
¶600679881

WEL Event type ke. Error ellipse: s-maj=15.8km s-min=11.5km az=90.0.
WEL III 16 02 24 15.7–.24 38.89S 179.64E 33 3.8L
¶600679924

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.3km az=90.0.
WEL III 16 21 12 54.7–.61 36.92S 177.52E 140–5 3.8L
¶600679944

WEL Event type ke. Error ellipse: s-maj=6.8km s-min=6.0km az=0.0.
WEL III 18 01 21 51.0–.30 36.57S 176.53E 306–7 4.0L
NEIC III 18 01 21 51.4 36.64S 176.53E 304 4.0 **¶16341169**
WEL Event type ke. Error ellipse: s-maj=11.6km s-min=11.5km az=0.0.
NEIC Event type se. After WEL.
WEL III 19 14 47 56.4–.56 36.99S 177.69E 95–5 3.6L
¶600680040

WEL Event type ke. Error ellipse: s-maj=5.4km s-min=3.2km az=0.0.
WEL III 19 21 41 25.8–.49 35.12S 178.32E 245–12 4.3L
¶600680045

WEL Event type ke. Error ellipse: s-maj=12.5km s-min=11.6km az=90.0.
WEL III 19 23 47 16.6–.56 35.97S 177.81E 225–5 3.8L
¶16339545

WEL Event type ke. Error ellipse: s-maj=9.6km s-min=8.3km az=90.0.
WEL III 21 16 27 31.9–.25 35.36S 178.86E 244–7 3.5L
¶600680141

WEL Event type ke. Error ellipse: s-maj=7.2km s-min=5.5km az=0.0.
WEL III 22 02 28 23.7–.61 37.00S 176.29E 313–10 3.8L
¶600680158

WEL Event type ke. Error ellipse: s-maj=23.8km s-min=14.7km az=90.0.
ISC III 22 09 47 01.1–1.1 35.74S–.08 178.8E–.10 150 59 2-157
WEL III 22 09 46 56.8–.55 35.60S 179.09E 187–8 4.5L **¶17197977**

ISCJB III 22 09 46 57.9–1.2 35.57S–.05 178.8E–.20 150 4.2b
IDC III 22 09 46 59.2–4.6 35.53S 178.88E 135–35 4.4,4.0
ISC Event type ke.
WEL Event type ke. Error ellipse: s-maj=5.8km s-min=4.9km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=6.1km az=165.2.
IDC Error ellipse: s-maj=48.8km s-min=23.8km az=55.0.
WEL III 25 02 07 48.8–.59 35.68S 177.83E 227–12 3.5L
¶600680271
WEL Event type ke. Error ellipse: s-maj=14.2km s-min=11.0km az=0.0.
ISC III 25 08 39 32.2–.55 38.14S–.03 178.22E–.04 62–4 5.0b 273 0-155
ISCJB III 25 08 39 30.0–.36 38.23S–.02 178.30E–.05 68–2 4.9b **¶16359661**
WEL III 25 08 39 31.4–.20 38.07S 178.26E 64–1 5.3L
NEIC III 25 08 39 31.7 38.08S 178.24E 63 5.4L,5.0b
BJI III 25 08 39 31.2 39.05S 177.38E 68 5.5b,5.2
IDC III 25 08 39 34.1–.92 38.06S 177.94E 70–6 4.8,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=11.6.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0. Felt from Auckland to Hawke"s Bay, maximum reported intensity MM 5.
NEIC Event type fe. Felt [IV] at Gisborne. Felt throughout the Raukumara area. After WEL.
IDC Error ellipse: s-maj=20.4km s-min=11.4km az=12.0.
WEL III 26 09 07 47.1–.42 36.10S 177.94E 187–5 3.9L
¶16362927
WEL Event type ke. Error ellipse: s-maj=7.8km s-min=5.2km az=90.0.
WEL III 26 13 40 16.6–.11 38.22S 178.16E 19–1 3.7L
¶16362934
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Gisborne region, maximum reported intensity MM 4.
WEL III 27 05 10 55.1–.96 35.88S 179.96E 33 3.6L
¶600680333
WEL Event type ke. Error ellipse: s-maj=17.1km s-min=11.3km az=90.0.
ISC III 27 16 09 16.4–.69 37.61S–.05 177.27E–.05 150–5 4.0b 121 0-162
ISCJB III 27 16 09 15.9–.41 37.62S–.03 177.28E–.06 157–3 4.0b **¶16373259**
IDC III 27 16 09 16.2–1.1 37.62S 177.30E 144–8 4.2,3.9
NEIC III 27 16 09 16.2–.50 37.61S 177.28E 145–3 4.1b,3.9
WEL III 27 16 09 17.9–.25 37.45S 177.34E 128–2 4.5L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.2km az=171.4.
IDC Error ellipse: s-maj=35.7km s-min=24.4km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=11.6km az=188.0. Felt at Ohiwa.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=1.0km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.
WEL III 27 20 06 52.6–.44 37.22S 177.25E 134–3 3.7L
¶16373261
WEL Event type ke. Error ellipse: s-maj=4.1km s-min=3.9km az=90.0.
ISC III 28 22 17 47.6–2.7 35.6S–.20 179.9E–.40 250 19 4-149
IDC III 28 22 17 24.4–6.1 31.18S 179.81E 0 3.8,3.5 **¶17199005**
ISC Event type ke.
IDC Error ellipse: s-maj=236.2km s-min=60.6km az=157.0.
WEL III 30 02 16 37.9–.76 36.98S 177.47E 148–6 3.8L
¶16391425
WEL Event type ke. Error ellipse: s-maj=7.6km s-min=6.4km az=0.0.
WEL III 30 06 06 09.9–.31 37.27S 177.76E 41–4 4.0L
NEIC III 30 06 06 09.7 37.27S 177.77E 45 4.0L **¶16391426**
WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=0.0.
NEIC Event type se. After WEL.
ISC III 31 08 35 29.4–1.2 37.03S–.08 177.18E–.07 231–7 217 1-150
ISCJB III 31 08 35 28.4–.80 37.04S–.06 177.31E–.08 241–5 3.6b **¶16399960**
NEIC III 31 08 35 29.4 36.69S 177.27E 201 4.9
WEL III 31 08 35 29.6–.73 36.71S 177.30E 202–6 4.9L
IDC III 31 08 35 29.8–1.3 37.27S 177.36E 233–12 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=9.4km az=158.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=0.0.
IDC Error ellipse: s-maj=45.4km s-min=27.0km az=134.0.
WEL IV 03 18 30 11.9–.45 36.70S 176.71E 226–6 3.6L
¶16406769
WEL Event type ke. Error ellipse: s-maj=10.2km s-min=8.8km az=90.0.
WEL IV 04 17 22 27.4–.55 35.36S 177.82E 219–13 3.8L
¶601003503
WEL Event type ke. Error ellipse: s-maj=13.1km s-min=9.0km az=0.0.
WEL IV 04 23 41 49.4–.33 36.54S 176.57E 205–6 4.3L
NEIC IV 04 23 41 49.2 36.53S 176.56E 206 4.3 **¶16408822**
WEL Event type fe. Error ellipse: s-maj=6.0km s-min=5.7km az=0.0. Felt in the Bay of Plenty region, maximum reported intensity MM 3.
NEIC Event type se. After WEL.
WEL IV 05 00 09 49.1–.31 39.25S 179.45E 33 3.5L
¶601003512
WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=90.0. Felt in the Bay of Plenty region, maximum reported intensity MM 4.
WEL IV 07 18 47 54.2–.87 37.80S 177.23E 61–6 2.5L
¶601003588
WEL Event type ke. Error ellipse: s-maj=6.7km s-min=5.4km az=90.0.
WEL IV 08 08 45 07.1–.31 36.30S 177.16E 222–5 3.7L
¶16415791
WEL Event type ke. Error ellipse: s-maj=8.0km s-min=7.1km az=90.0.
WEL IV 08 21 31 02.7–.31 36.84S 177.36E 139–5 3.6L
¶16415793
WEL Event type ke. Error ellipse: s-maj=4.7km s-min=4.1km az=0.0.
ISC IV 08 22 30 05.1–.92 37.02S–.05 177.32E–.06 183–6 152 1-156
ISCJB IV 08 22 30 04.4–.57 37.20S–.05 177.42E–.08 205–5 3.6b **¶16415797**
NEIC IV 08 22 30 04.4 36.82S 177.39E 170 4.5
WEL IV 08 22 30 05.1–.36 36.87S 177.38E 165–3 4.6L
IDC IV 08 22 30 07.0–1.2 37.26S 177.18E 183–9 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.0km az=31.2.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=0.0.
IDC Error ellipse: s-maj=29.5km s-min=26.8km az=135.0.
WEL IV 09 07 20 24.8–.41 36.30S 177.20E 245–7 3.6L
¶16416019
WEL Event type ke. Error ellipse: s-maj=10.5km s-min=9.4km az=90.0.
WEL IV 10 01 02 00.3–.60 35.93S 177.70E 212–7 3.8L
¶601003659
WEL Event type ke. Error ellipse: s-maj=9.6km s-min=7.5km az=90.0.
WEL IV 10 13 11 01.1–.21 37.76S 177.36E 99–1 3.5L
¶16416807
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=0.0.
WEL IV 10 14 25 52.6–.38 37.10S 177.21E 149–3 3.6L
¶16416808
WEL Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=90.0.
ISC IV 11 05 38 09.7–.95 36.83S–.08 177.15E–.08 293–7 4.3b 192 1-151
IDC IV 11 05 38 08.7–1.1 37.14S 177.59E 304–10 4.6,4.1 **¶16418227**
ISCJB IV 11 05 38 09.9–.74 36.87S–.06 177.18E–.10 297–6 4.2b,4.1
NEIC IV 11 05 38 10.8 36.58S 177.28E 268 4.8,4.1
WEL IV 11 05 38 11.2–.54 36.62S 177.26E 267–4 4.8L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=26.0km az=153.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=9.4km az=21.4.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=0.0.
WEL IV 11 16 09 33.7–.31 37.69S 177.47E 108–2 3.8L
¶16418228
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=0.0.
WEL IV 15 18 27 11.2–.23 38.31S 178.83E 30–1 3.9L
¶16440145
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0.
WEL IV 16 20 25 06.2–.40 37.32S 178.97E 33 3.9L
¶16442668
WEL Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=90.0.
WEL IV 18 18 11 26.9–.48 38.10S 178.82E 26–2 3.7L
¶16446874
WEL Event type ke. Error ellipse: s-maj=4.6km s-min=2.3km az=90.0.
WEL IV 20 10 24 28.6–.30 36.42S 177.28E 194–4 3.9L
¶16450376
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=90.0.
WEL IV 20 23 32 11.9–.73 35.98S 178.27E 33 3.5L
¶601003988
WEL Event type ke. Error ellipse: s-maj=9.4km s-min=5.0km az=90.0.
ISC IV 21 15 55 41.3–2.5 35.4S–.10 178.9E–.10 272 132 2-149
IDC IV 21 15 55 42.8–7.2 35.43S 179.50E 183–76 3.6,3.3 **¶16451720**
NEIC IV 21 15 55 43.8 35.41S 179.05E 238 4.4,3.3
WEL IV 21 15 55 44.0–.60 35.37S 179.03E 231–8 4.4L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=103.9km s-min=45.5km az=178.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=7.5km s-min=6.0km az=0.0.
WEL IV 21 23 22 20.9–.45 37.61S 178.29E 46–3 3.8L
¶16451721
WEL Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=90.0.
WEL IV 23 01 50 54.7–.60 36.50S 177.38E 156–7 3.6L
¶16452556
WEL Event type ke. Error ellipse: s-maj=8.0km s-min=6.6km az=90.0.
WEL IV 24 17 19 56.2–.35 37.87S 179.15E 33 3.7L
¶16456744
WEL Event type ke. Error ellipse: s-maj=3.3km s-min=1.9km az=90.0.
WEL IV 26 11 19 58.6–.15 38.91S 178.02E 28–1 3.8L
¶16460264
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=90.0.
WEL IV 27 01 11 51.4–.53 35.82S 178.94E 306–18 3.7L
¶601004194
WEL Event type ke. Error ellipse: s-maj=24.5km s-min=13.7km az=0.0.
WEL IV 27 08 15 45.1–.14 38.90S 178.02E 28–1 3.7L
¶16463562
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=90.0.
WEL IV 27 11 00 51.0–.51 36.01S 178.23E 199–3 4.2L
¶601004209
WEL Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=0.0.
WEL IV 29 07 25 17.6–.58 36.32S 177.28E 190–10 3.5L
¶601004269
WEL Event type ke. Error ellipse: s-maj=13.7km s-min=11.9km az=0.0.
WEL IV 29 09 30 33.7–.21 37.68S 177.23E 122–1 4.0L
NEIC IV 29 09 30 33.7 37.70S 177.23E 122 4.0 **¶16485260**
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=0.0.
NEIC Event type se. After WEL.
WEL IV 29 19 40 24.6–.44 36.18S 177.61E 207–4 3.8L
¶601004289
WEL Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=90.0.
ISC IV 29 21 10 07.9–1.8 35.7S–.20 179.0E–.20 229–16 36 2-149
IDC IV 29 21 09 59.9–7.6 35.08S 179.46E 171–78 3.5,3.2 **¶17202416**
WEL IV 29 21 10 02.4–.39 35.21S 178.94E 217–5 4.2L,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=95.6km s-min=48.6km az=178.0.
WEL Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=90.0.
WEL IV 30 00 46 28.6–.75 35.83S 178.18E 194–11 3.8L
NEIC IV 30 00 46 11.8 34.83S 178.42E 284 4.1 **¶16485265**
WEL Event type ke. Error ellipse: s-maj=13.2km s-min=7.9km az=90.0.
NEIC Event type se. After WEL.
ISC IV 30 22 58 04.6–.60 37.89S–.03 177.60E–.03 68–5 3.8b 185 0-155
ISCJB IV 30 22 58 03.6–.45 37.91S–.03 177.62E–.04 76–4 3.9b **¶16485942**
NEIC IV 30 22 58 05.6 37.82S 177.58E 43 4.2L
IDC IV 30 22 58 05.8–1.4 38.08S 177.38E 62–7 3.9,3.9
WEL IV 30 22 58 05.6–.21 37.82S 177.58E 43–2 4.2L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=142.9.
NEIC Event type se. After WEL.
IDC Error ellipse: s-maj=28.3km s-min=23.7km az=120.0.
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=0.0.
ISC V 01 17 44 50.3–3.0 36.0S–.20 179.6E–.20 113–23 46 2-150
WEL V 01 17 44 40.9–.55 35.33S 179.87E 33 4.1L **¶17202544**
IDC V 01 17 44 42.8–8.6 35.67S 179.85E 41–79 4.0L,3.8
ISC Event type ke.
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=90.0.
IDC Error ellipse: s-maj=73.2km s-min=52.7km az=142.0.
WEL V 01 21 32 29.9–.27 36.87S 176.61E 233–3 3.7L
¶16486896
WEL Event type ke. Error ellipse: s-maj=5.9km s-min=5.7km az=0.0.
WEL V 01 23 15 42.9–.59 36.28S 178.10E 108–13 3.5L
¶601004392
WEL Event type ke. Error ellipse: s-maj=8.8km s-min=5.5km az=0.0.
WEL V 02 04 58 09.1–.45 35.43S 178.72E 238–6 4.1L
NEIC V 02 04 58 09.6 35.46S 178.88E 232 4.1 **¶16486897**
WEL Event type ke. Error ellipse: s-maj=9.4km s-min=6.8km az=90.0.
NEIC Event type se. After WEL.
WEL V 02 10 26 15.6–.23 39.51S 178.28E 33 3.5L
¶601004412
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=90.0.
WEL V 03 05 06 50.4–.55 36.41S 178.46E 148–5 3.8L
NEIC V 03 05 06 48.2 36.38S 178.57E 174 4.0 **¶16493551**
WEL Event type ke. Error ellipse: s-maj=6.0km s-min=6.0km az=0.0.
NEIC Event type se. After WEL.
WEL V 04 18 12 41.5–.28 37.79S 178.45E 12 3.7L
¶16497696
WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.0km az=90.0.
WEL V 04 22 14 00.9–.12 38.30S 178.13E 20–1 3.9L
NEIC V 04 22 14 01.0 38.30S 178.10E 19 4.0L **¶16497710**
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Gisborne region, maximum reported intensity MM 3.
NEIC Event type se. After WEL.
WEL V 05 15 41 01.4–.48 36.53S 177.35E 161–6 4.1L
NEIC V 05 15 41 01.5 36.60S 177.42E 169 4.1 **¶16497753**
WEL Event type ke. Error ellipse: s-maj=7.2km s-min=6.7km az=90.0.
NEIC Event type se. After WEL.
WEL V 07 16 41 45.9–.60 36.86S 176.80E 200–6 3.7L
¶601004619
WEL Event type ke. Error ellipse: s-maj=10.6km s-min=8.8km az=90.0.
WEL V 08 12 34 43.8–2.4 36.01S 178.27E 5 3.5L
¶601004649
WEL Event type ke. Error ellipse: s-maj=17.9km s-min=10.4km az=0.0.
WEL V 08 21 06 58.0–.42 37.60S 179.23E 33 3.7L
¶16501024
WEL Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=90.0.
WEL V 09 07 15 00.1–.32 37.26S 179.95E 33 3.8L
¶601004680
WEL Event type ke. Error ellipse: s-maj=3.3km s-min=3.3km az=90.0.
WEL V 11 06 44 53.9–.43 35.68S 178.78E 216–6 3.8L
¶601004790
WEL Event type ke. Error ellipse: s-maj=8.6km s-min=8.1km az=90.0.
WEL V 11 15 03 57.5–.33 37.19S 179.75E 5 4.0L
NEIC V 11 15 03 57.7 37.20S 179.74E 5 4.0L **¶16506435**
WEL Event type ke. Error ellipse: s-maj=3.2km s-min=3.1km az=0.0.
NEIC Event type se. After WEL.
ISC V 14 02 19 18.5–1.7 35.7S–.20 178.9E–.20 241–13 85 2-149
WEL V 14 02 19 14.3–.41 35.29S 178.81E 232–10 4.4L **¶16510265**
IDC V 14 02 19 14.7–7.1 35.27S 179.05E 198–76 4.2,3.9
NEIC V 14 02 19 15.1 35.28S 178.78E 218 4.4,3.9
ISC Event type ke.
WEL Event type ke. Error ellipse: s-maj=10.1km s-min=9.4km az=90.0.
IDC Error ellipse: s-maj=103.5km s-min=44.1km az=180.0.
NEIC Event type se. After WEL.
WEL V 14 14 37 40.7–.44 37.37S 177.16E 130–3 3.8L

¶16512066

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=0.0.
WEL V 14 18 32 30.2–1.7 35.32S 177.92E 33 4.2L

¶601004931

WEL Event type ke. Error ellipse: s-maj=23.7km s-min=12.1km az=90.0.
WEL V 18 01 18 59.8–.40 36.85S 176.57E 234–5 3.8L

¶16527120

WEL Event type ke. Error ellipse: s-maj=6.7km s-min=6.5km az=0.0.
WEL V 19 21 36 01.6–.26 36.49S 177.28E 180–4 3.5L

¶601005113

WEL Event type ke. Error ellipse: s-maj=4.8km s-min=4.6km az=90.0.
WEL V 20 16 08 55.5–.75 36.33S 177.38E 191–9 3.6L

¶16531627

WEL Event type ke. Error ellipse: s-maj=9.8km s-min=8.4km az=90.0.
WEL V 21 13 59 07.4–.24 37.66S 177.36E 115–1 3.5L

¶601005955

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=0.0.
WEL V 21 14 35 30.4–.57 35.72S 178.11E 202–6 3.4L

¶601005957

WEL Event type ke. Error ellipse: s-maj=11.0km s-min=9.3km az=90.0.
WEL V 21 21 13 07.8–.15 37.63S 177.03E 5 2.8L

¶16532355

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.4km az=0.0.
WEL V 24 21 33 07.6–.56 35.87S 178.04E 172–8 4.0L
NEIC V 24 21 33 06.6 35.87S 178.11E 188 4.1 ¶16543232
WEL Event type ke. Error ellipse: s-maj=9.0km s-min=7.4km az=90.0.
NEIC Event type se. After WEL.
WEL V 25 10 15 17.8–.83 35.21S 178.93E 298–6 4.2L
NEIC V 25 10 15 20.2 35.24S 178.60E 279 4.1 ¶16546010
WEL Event type ke. Error ellipse: s-maj=20.7km s-min=11.2km az=90.0.
NEIC Event type se. After WEL.
WEL V 27 07 10 46.9–.76 37.01S 177.47E 137–5 3.6L

¶16549421

WEL Event type ke. Error ellipse: s-maj=4.8km s-min=2.5km az=0.0.
IDC V 27 18 27 53.8–2.7 35.27S 179.13E 0 4.0,3.9s

¶17204581

IDC Error ellipse: s-maj=60.5km s-min=43.2km az=110.0.
WEL V 27 19 04 41.0–.46 36.03S 178.36E 219–6 3.7L

¶16551202

WEL Event type ke. Error ellipse: s-maj=9.3km s-min=7.3km az=90.0.
ISC V 28 05 48 48.4–1.4 36.1S–.10 178.1E–.10 200 112 2-157
IDC V 28 05 48 42.5–5.3 35.56S 178.52E 169–39 4.4,4.2 ¶16551278
NEIC V 28 05 48 45.6 35.89S 178.48E 209 4.4,4.2
WEL V 28 05 48 46.5–.56 35.89S 178.23E 203–4 4.4L,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=60.0km s-min=31.1km az=40.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=7.0km s-min=6.9km az=0.0.
WEL V 29 04 36 52.8–.13 39.53S 177.31E 27–1 3.8L

¶16551449

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0.
ISC V 30 00 42 30.7–.61 38.14S–.04 178.07E–.04 69–5 4.7b 245 0-178
IDC V 30 00 42 27.3–6.5 37.49S 177.98E 32–45 4.5,4.5 ¶16560174
ISCJB V 30 00 42 29.1–.35 38.14S–.02 178.12E–.04 73–2 4.5b,4.5
NEIC V 30 00 42 30.6 38.04S 178.07E 66 4.8W,4.7b
WEL V 30 00 42 30.5–.25 38.04S 178.08E 67–2 5.5L,4.7b
ISC Event type fe.
IDC Error ellipse: s-maj=27.8km s-min=17.7km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=5.9.
NEIC Event type fe. Felt at Gisborne and in the Bay of Plenty area. After WEL. Moment Tensor Solution. s25 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.12 $M_{\theta\theta}$-1.47 $M_{\phi\phi}$1.59 $M_{r\theta}$-0.85 $M_{\theta\phi}$0.97 $M_{\phi r}$0.54 Best double couple: NP1:ϕ_s153.00000°,δ79.00000°,λ-155.00000°. NP2:ϕ_s58.00000° ,δ66.00000°,λ-12.00000°. Principal axes: T 1.9200,Plg9.0000°,Azm284.0000° ; N 0.2800,Plg63.0000°,Azm176.0000°; P -2.2000,Plg25.0000°,Azm18.0000° M_o2.10000×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0. Felt between Bay of Plenty, Wellington and Gisborne, maximum reported. intensity MM 5.
WEL V 30 23 46 48.8–.85 36.36S 177.01E 251–8 3.6L

¶601006283

WEL Event type ke. Error ellipse: s-maj=8.2km s-min=6.9km az=90.0.
WEL V 31 05 20 24.0–.42 36.69S 177.48E 147–3 3.8L

¶16551671

WEL Event type ke. Error ellipse: s-maj=4.9km s-min=4.9km az=0.0.
ISC V 31 23 45 15.7–1.5 37.99S–.04 177.62E–.05 87–9 160 0-151
ISCJB V 31 23 45 13.5–.68 37.96S–.03 177.79E–.06 110–5 4.0b ¶16552974
IDC V 31 23 45 17.1–1.4 37.82S 176.56E 0 4.4,4.1
WEL V 31 23 45 18.4–.19 37.91S 177.57E 50–2 4.4L,4.1
NEIC V 31 23 45 18.4 37.91S 177.57E 50 4.4L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.5km az=164.8.
IDC Error ellipse: s-maj=47.2km s-min=8.9km az=39.0.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=1.1km az=0.0. Felt from Bay of Plenty to Gisborne, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Opotiki. After WEL.
ISC VI 01 08 41 18.4–1.7 35.9S–.10 179.2E–.20 226–10 67 2-149
IDC VI 01 08 41 14.1–3.9 36.09S 179.94E 222–31 3.9,3.6 ¶17204876
ISC Event type ke.
IDC Error ellipse: s-maj=54.4km s-min=44.2km az=152.0.
WEL VI 07 05 36 52.5–.37 36.80S 177.07E 251–3 4.5L
NEIC VI 07 05 36 53.3 36.86S 177.01E 247 4.5 ¶16578075
WEL Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=0.0.
NEIC Event type se. After WEL.
WEL VI 07 15 06 42.8–.33 36.88S 176.99E 170–4 3.7L

¶16578079

WEL Event type ke. Error ellipse: s-maj=4.5km s-min=4.1km az=90.0.
WEL VI 08 20 05 39.7–.44 35.72S 179.40E 5 3.7L

¶601027074

WEL Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=90.0.
WEL VI 09 10 09 45.2–.52 36.96S 178.02E 84–5 3.7L

¶16587345

WEL Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=0.0.
WEL VI 09 15 36 44.8–.36 35.04S 178.51E 250–8 3.8L

¶16587348

WEL Event type ke. Error ellipse: s-maj=6.8km s-min=6.7km az=0.0.
ISC VI 10 03 00 58.6–2.3 37.30S–.07 179.36E–.09 28–13 100 1-156
IDC VI 10 03 00 55.9–1.6 36.75S 179.00E 0 4.2,4.0 ¶16587356
NEIC VI 10 03 00 59.2 37.09S 179.34E 33 4.1L,4.0
WEL VI 10 03 00 59.0–.76 37.10S 179.39E 33 4.0L,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=42.5km s-min=37.4km az=142.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=7.0km s-min=6.4km az=0.0.
WEL VI 11 16 20 56.5–.42 37.19S 177.24E 159–3 3.7L

¶16591628

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=90.0.
ISC VI 12 03 17 41.0–1.3 37.46S–.08 178.25E–.05 10 43 0-150
IDC VI 12 03 17 37.3–3.5 37.53S 178.68E 0 3.9,3.6 ¶16591647
ISCJB VI 12 03 17 40.5–.92 37.42S–.05 178.23E–.06 10 3.4b,3.6
WEL VI 12 03 17 41.5–.63 37.46S 178.21E 5 3.7L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=90.2km s-min=39.1km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=40.8.
WEL Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=0.0. Felt in the Gisborne region, maximum reported intensity MM 4.
WEL VI 13 05 12 48.5–.45 36.83S 177.84E 33 3.6L

¶16594439

WEL Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=0.0.
WEL VI 14 15 17 50.2–.32 38.53S 178.65E 30–1 3.7L

¶16614310

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=1.1km az=90.0.
WEL VI 14 22 41 52.1–.18 41.04S 176.79E 33 3.6L

¶16614322

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=90.0.
IDC VI 16 05 21 19.7–1.9 35.16S 179.13E 0 4.4,4.3b

¶17206269

IDC Error ellipse: s-maj=46.8km s-min=40.5km az=70.0.
WEL VI 17 16 36 40.5–.56 36.96S 176.97E 170–5 3.6L

¶16633271

WEL Event type ke. Error ellipse: s-maj=6.9km s-min=5.6km az=90.0.
WEL VI 17 18 52 52.0–.42 38.55S 178.67E 33 3.0L

¶601027643

WEL Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=90.0.
ISC VI 18 01 10 18.3–1.2 35.26S–.09 178.5E–.10 10 4.3b,3.9s 33 2-158
IDC VI 18 01 10 11.7–1.7 34.79S 179.39E 0 4.5,4.3b ¶16645204
ISCJB VI 18 01 10 17.7–1.1 35.30S–.06 178.5E–.10 10 4.1b,3.8s
WEL VI 18 01 10 18.9–.72 35.21S 178.45E 12 4.6L,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=31.2km az=42.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.6km az=162.9.
WEL Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=90.0.
WEL VI 19 00 48 49.5–.54 37.57S 179.00E 33 3.3L
NEIC VI 19 00 48 22.1 36.85S 178.67W 79 4.4L ¶16633276
WEL Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=90.0.
NEIC Event type se. After WEL.
IDC VI 19 01 30 16.0–3.4 35.21S 178.36E 0 4.2,4.1b

¶17206503

IDC Error ellipse: s-maj=72.8km s-min=33.6km az=85.0.
WEL VI 23 05 21 24.6–.10 39.15S 177.49E 30–1 3.5L

¶601027829

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.
WEL VI 24 20 49 38.8–.38 36.92S 176.76E 186–4 3.7L

¶16681347

WEL Event type ke. Error ellipse: s-maj=3.5km s-min=3.4km az=90.0.
WEL VI 25 08 54 15.7–.09 39.33S 177.40E 33 3.7L

¶16681359

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.
WEL VI 25 17 50 25.3–.41 36.71S 177.35E 12 3.5L

¶601027920

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=0.0.
ISC VI 26 22 00 25.5–1.5 41.06S–.03 176.63E–.04 12–9 3.9b 165 0-153
ISCJB VI 26 22 00 24.7–.88 41.14S–.03 176.74E–.07 24–5 3.9b ¶16683833
IDC VI 26 22 00 26.1–1.6 40.89S 176.30E 0 4.1,3.9
WEL VI 26 22 00 27.9–.32 40.99S 176.54E 24–2 3.9L,3.9
NEIC VI 26 22 00 28.2 40.97S 176.53E 26 3.9L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.4km az=30.7.
IDC Error ellipse: s-maj=43.5km s-min=28.3km az=137.0.
WEL Event type fe. Error ellipse: s-maj=2.7km s-min=1.4km az=90.0. Felt from Hawke''s Bay to Wairarapa, maximum reported intensity MM 3.
NEIC Event type fe. Felt at Alfredton and Dannevirke. After WEL.
WEL VI 27 05 44 44.7–.42 37.76S 178.31E 45–3 3.8L

¶601027959

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=2.1km az=90.0.
WEL VI 27 08 01 21.9–.71 36.19S 177.58E 194–6 3.5L

¶601027961

WEL Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=90.0.
WEL VI 27 15 48 54.3–.10 39.31S 177.35E 28–1 3.7L

¶16684568

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.
WEL VI 28 05 02 08.1–.11 39.30S 177.30E 27–1 3.8L

¶16684580

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Hawke''s Bay region, maximum reported intensity MM 4.
WEL VI 28 13 59 22.9–.28 36.79S 176.84E 192–3 3.8L

¶601028005

WEL Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=90.0.
WEL VI 28 22 27 40.5–.48 36.56S 177.17E 5 3.8L

¶16685972

WEL Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=0.0.
WEL VI 28 23 28 38.3–1.1 36.32S 177.40E 33 3.8L

¶601028017

WEL Event type ke. Error ellipse: s-maj=8.6km s-min=7.6km az=0.0.
ISC VI 29 00 42 25.7–1.6 36.4S–.10 177.29E–.09 35 15 1-156
IDC VI 29 00 42 20.0–3.5 36.40S 177.59E 0 3.9,3.6 ¶17207159
WEL VI 29 00 42 23.2–.84 36.44S 177.28E 12 3.8L,3.6
ISCJB VI 29 00 42 25.2–1.3 36.45S–.09 177.24E–.10 33 3.5b,3.6
ISC Event type ke.
WEL Event type ke.
ISCJB Event type ke.
ISC VI 29 07 21 15.4–1.3 35.9S–.10 178.6E–.10 262–8 84 2-149
WEL VI 29 07 21 12.5–.75 35.47S 178.71E 230–8 4.6L ¶17207176
ISCJB VI 29 07 21 13.6–1.1 35.9S–.10 178.7E–.20 270–8 4.3b
IDC VI 29 07 21 14.1–4.2 35.78S 178.75E 246–44 4.6,4.3
ISC Event type ke.
WEL Event type ke. Error ellipse: s-maj=9.2km s-min=8.5km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=26.0km s-min=14.7km az=26.9.
IDC Error ellipse: s-maj=75.6km s-min=34.8km az=4.0.
ISC VI 30 10 36 40.3–1.4 36.6S–.10 177.68E–.09 248–7 107 1-156
ISCJB VI 30 10 36 39.2–.94 36.72S–.08 177.9E–.10 265–6 3.5b ¶17207249
WEL VI 30 10 36 40.7–.67 36.24S 177.83E 193–7 4.6L
IDC VI 30 10 36 42.0–2.1 36.70S 177.41E 242–11 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=12.4km az=22.1.
WEL Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=0.0.
IDC Error ellipse: s-maj=38.3km s-min=27.7km az=59.0.
WEL VI 30 12 39 26.4–.28 37.13S 177.36E 144–2 3.8L

¶601028073

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=0.0.

(161) Off west coast of South Island.

WEL I 06 06 44 39.8–.18 46.19S 166.11E 30–0 3.7L

¶15907150

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=90.0.
WEL I 08 12 33 23.3–.68 47.39S 165.36E 33 3.6L

¶15910774

WEL Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=90.0.
WEL I 11 01 29 44.3–.56 47.43S 165.39E 33 3.5L

¶15918291

WEL Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=90.0.
WEL I 11 16 37 00.7–1.2 47.20S 165.99E 12 3.8L

¶600661907

WEL Event type ke. Error ellipse: s-maj=11.7km s-min=6.3km az=90.0.
WEL I 16 12 43 48.1–.30 45.93S 166.91E 98–2 4.0L
NEIC I 16 12 43 48.1 45.93S 166.91E 99 4.0 ¶15931531
WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=90.0.
NEIC Event type se. After WEL.
WEL I 17 18 56 07.1–.75 47.81S 165.22E 33 3.5L

¶600662081

WEL Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=90.0.
WEL I 18 07 25 02.9–.46 45.92S 166.36E 12 3.5L

¶600662098

WEL Event type ke. Error ellipse: s-maj=4.9km s-min=0.9km az=90.0.
WEL I 25 19 48 19.8–1.1 47.42S 165.51E 33 3.5L

¶600662290

WEL Event type ke. Error ellipse: s-maj=11.6km s-min=7.1km az=90.0.
ISC I 26 21 36 15.3–2.1 47.16S–.07 165.85E–.06 3–12 4.0b,3.7s 60 1-153
IDC I 26 21 36 15.3–1.2 47.17S 165.89E 0 4.1,3.9 ¶15972644
WEL I 26 21 36 15.0–.80 47.50S 165.29E 33 4.6L,3.9
NEIC I 26 21 36 19.6–.73 47.33S 165.74E 35 4.4b,3.9

ISC Event type ke.
IDC Error ellipse: s-maj=43.1km s-min=23.9km az=167.0.
WEL Event type ke. Error ellipse: s-maj=9.6km s-min=4.4km az=90.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=6.9km az=155.0.
WEL I 30 18 53 01.5–.67 45.56S 166.46E 5 4.0L
¶600662418

WEL Event type ke. Error ellipse: s-maj=6.1km s-min=2.9km az=90.0.
ISC I 31 14 14 20.5–.93 45.49S–.05 166.40E–.06 15 27 1-151
ISCJB I 31 14 14 18.2–.73 45.42S–.04 166.28E–.07 15 3.2b **¶17191411**
WEL I 31 14 14 18.7–.51 45.49S 166.30E 5 4.2L
IDC I 31 14 14 20.2–1.4 45.08S 166.30E 0 4.2L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.3km az=168.6.
WEL Event type ke. Error ellipse: s-maj=5.0km s-min=2.2km az=90.0.
IDC Error ellipse: s-maj=56.2km s-min=25.8km az=180.0.
WEL II 02 13 02 02.7–.72 46.00S 166.14E 12 3.5L
¶602330901

WEL Event type ke. Error ellipse: s-maj=7.0km s-min=2.1km az=90.0.
WEL II 05 19 39 50.5–.59 46.10S 166.19E 22–1 3.7L
¶16007687

WEL Event type ke. Error ellipse: s-maj=6.1km s-min=2.4km az=90.0.
ISC II 09 22 52 23.7–2.4 47.14S–.07 165.38E–.06 2–14 4.0b,3.6s 87 1-153
IDC II 09 22 52 22.9–1.4 47.45S 165.28E 0 4.1,4.0 **¶16019817**
WEL II 09 22 52 23.6–.95 47.23S 164.97E 33 4.7L,4.4W
NEIC II 09 22 52 24.4–.46 47.23S 165.46E 10 4.7L,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=51.5km s-min=31.9km az=20.0.
WEL Event type ke. Error ellipse: s-maj=10.6km s-min=5.7km az=90.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=4.9km az=161.0.
WEL II 12 08 03 27.6–.89 47.34S 165.24E 33 3.5L
¶16022448

WEL Event type ke. Error ellipse: s-maj=9.7km s-min=5.8km az=90.0.
WEL II 14 15 39 31.1–.32 45.72S 166.66E 5 3.7L
¶16025695

WEL Event type ke. Error ellipse: s-maj=3.6km s-min=1.4km az=90.0.
ISC II 14 18 35 30.0–1.4 45.83S–.04 166.53E–.06 14–8 44 0-149
IDC II 14 18 35 28.1–1.7 45.80S 166.51E 0 4.0L,3.8 **¶16025699**
ISCJB II 14 18 35 30.0–1.1 45.83S–.05 166.48E–.09 20–8 3.5b,3.8
NEIC II 14 18 35 30.7 45.83S 166.60E 5 4.1L,3.8
WEL II 14 18 35 31.2–.24 45.83S 166.64E 5 4.1L,3.7W
ISC Event type ke.
IDC Error ellipse: s-maj=52.4km s-min=27.2km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.2km az=30.1.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.9km s-min=1.0km az=90.0. Felt from Otago to Southland, maximum reported intensity MM 4.
WEL II 16 17 25 58.3–.63 46.02S 165.80E 17–2 4.2L,4.1W
NEIC II 16 17 25 58.5 46.19S 165.79E 14 4.3L,4.1W **¶16030160**
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=2.6km az=90.0.
NEIC Event type se. After WEL.
WEL II 17 00 28 13.0–.65 46.11S 165.87E 12 4.0L
¶602335594

WEL Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=90.0.
WEL II 19 06 44 26.3–1.3 46.85S 166.30E 33 3.5L
¶602335742

WEL Event type ke. Error ellipse: s-maj=15.1km s-min=6.1km az=90.0.
WEL II 19 16 55 40.0–.55 46.23S 165.73E 12 4.3L,4.0W
¶16032962

WEL Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=90.0.
WEL II 20 17 42 36.2–.65 46.79S 165.63E 12 4.0L
¶602335811

WEL Event type ke. Error ellipse: s-maj=6.8km s-min=3.3km az=90.0.
WEL II 24 07 59 37.5–.73 46.13S 166.17E 33 3.5L
¶602337162

WEL Event type ke. Error ellipse: s-maj=7.9km s-min=2.8km az=90.0.
WEL III 02 18 55 54.1–.91 47.37S 165.48E 33 3.6L
¶16177112

WEL Event type ke. Error ellipse: s-maj=8.9km s-min=7.0km az=90.0.
WEL III 06 23 18 10.6–.63 46.25S 166.02E 26–2 4.0L
NEIC III 06 23 18 10.1 46.45S 166.13E 18 4.0L **¶16202797**
WEL Event type ke. Error ellipse: s-maj=6.3km s-min=3.3km az=90.0.
NEIC Event type se. After WEL.
ISC III 11 01 50 00.5–.96 46.19S–.07 165.99E–.06 12 50 0-151
IDC III 11 01 49 58.7–1.6 46.21S 165.98E 0 4.0L,3.7 **¶16304059**
ISCJB III 11 01 49 59.3–.92 46.16S–.08 165.88E–.08 12 3.3b,3.7
NEIC III 11 01 50 00.8 46.18S 165.87E 12 4.5L,3.7
WEL III 11 01 50 02.5–1.1 46.08S 166.00E 12 4.4L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=59.3km s-min=26.9km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.0km az=18.2.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=10.3km s-min=5.7km az=90.0.
WEL III 21 16 47 47.5–.26 45.36S 166.70E 22–1 2.7L
¶600680143

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=90.0.
WEL III 21 16 49 59.8–.65 45.33S 166.77E 12 2.7L
¶600680144

WEL Event type ke. Error ellipse: s-maj=6.3km s-min=3.7km az=90.0.
WEL III 23 08 57 45.2–.72 46.25S 166.14E 28–2 3.5L
¶600680210

WEL Event type fe. Error ellipse: s-maj=6.7km s-min=2.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 23 15 32 37.1–.46 46.00S 166.15E 12 4.2L
NEIC III 23 15 32 36.9 46.01S 166.13E 19 4.2L **¶16359638**
WEL Event type ke. Error ellipse: s-maj=4.5km s-min=1.7km az=90.0.
NEIC Event type se. After WEL.
WEL III 24 05 44 13.4–.51 46.05S 165.91E 12 3.6L
¶16359641

WEL Event type ke. Error ellipse: s-maj=4.5km s-min=2.2km az=90.0.
WEL III 25 00 17 34.2–.77 46.06S 165.93E 12 3.7L
¶16359650

WEL Event type ke. Error ellipse: s-maj=6.9km s-min=3.9km az=90.0.
WEL IV 02 09 41 58.2–.16 40.03S 172.92E 33 3.7L
¶16404909

WEL Event type fe. Error ellipse: s-maj=2.8km s-min=1.1km az=90.0. Felt in the King Country region, maximum reported intensity MM 3.
WEL IV 14 21 20 18.2–1.0 46.11S 166.11E 22–3 3.7L
¶16437949

WEL Event type ke. Error ellipse: s-maj=10.2km s-min=3.9km az=90.0.
WEL IV 17 02 48 10.3–.59 45.98S 166.15E 12 4.4L
NEIC IV 17 02 48 09.6 46.03S 166.09E 17 4.4L **¶16442671**
WEL Event type fe. Error ellipse: s-maj=5.6km s-min=2.3km az=90.0. Felt from Canterbury to Southland, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
ISC IV 17 16 41 23.6–1.7 47.8S–.10 166.79E–.09 10 19 1-152
IDC IV 17 16 41 22.3–3.5 47.83S 166.78E 0 3.9,3.7 **¶17201341**
ISC Event type ke.
IDC Error ellipse: s-maj=84.4km s-min=43.2km az=161.0.
WEL IV 19 16 18 48.0–.34 46.38S 165.47E 12 3.7L
¶16448795

WEL Event type ke. Error ellipse: s-maj=3.1km s-min=3.0km az=0.0.
WEL IV 22 17 00 40.3–.65 46.78S 165.56E 12 4.0L
¶16452555

WEL Event type ke. Error ellipse: s-maj=6.9km s-min=3.6km az=90.0.
WEL V 04 09 50 48.5–.15 45.60S 166.95E 71–1 3.5L
¶601004488

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=90.0.
WEL V 10 11 53 19.3–1.1 47.77S 165.30E 33 3.7L
¶601004749

WEL Event type ke. Error ellipse: s-maj=10.8km s-min=7.3km az=90.0.
WEL V 12 15 47 32.6–.92 46.32S 166.01E 28–3 3.8L
¶16509193

WEL Event type ke. Error ellipse: s-maj=8.9km s-min=5.4km az=90.0.
WEL V 15 04 20 59.9–.49 45.03S 166.87E 12 3.7L
¶16512090

WEL Event type ke. Error ellipse: s-maj=5.0km s-min=2.4km az=90.0.
WEL V 15 06 58 52.8–.81 47.00S 166.15E 5 3.6L
¶601004958

WEL Event type ke. Error ellipse: s-maj=7.6km s-min=5.0km az=90.0.
ISC V 19 07 40 59.2–1.2 46.30S–.07 166.11E–.07 13 45 1-145
IDC V 19 07 40 57.4–3.3 46.28S 166.08E 0 3.8,3.6 **¶16530153**
ISCJB V 19 07 40 58.1–.96 46.27S–.07 165.99E–.08 13 3.6b,3.6
NEIC V 19 07 41 01.7 46.41S 165.95E 33 4.0L,3.6
WEL V 19 07 41 01.4–.44 46.37S 165.92E 33 4.0L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=94.3km s-min=35.5km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.4km az=27.2.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=4.9km s-min=2.2km az=90.0.
WEL V 23 19 51 00.8–.45 41.00S 172.19E 5 3.5L
¶16537227

WEL Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=90.0. Felt from Nelson to West Coast, maximum reported intensity MM 4.
WEL V 26 20 35 59.7–.84 45.32S 166.37E 5 3.9L
¶16549419

WEL Event type ke. Error ellipse: s-maj=8.2km s-min=3.9km az=90.0.
WEL V 27 19 53 34.0–.60 46.39S 166.13E 12 3.8L
¶16551208

WEL Event type ke. Error ellipse: s-maj=6.0km s-min=2.7km az=90.0.
ISC V 31 18 44 02.1–.96 45.88S–.05 166.36E–.07 14 28 0-151
IDC V 31 18 44 00.7–1.4 45.74S 166.34E 0 3.7,3.5 **¶16552971**
ISCJB V 31 18 44 02.3–.79 45.80S–.04 166.31E–.08 14 3.5b,3.5
WEL V 31 18 44 03.9–.55 45.80S 166.51E 5 3.8L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=51.4km s-min=27.8km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=174.9.
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=1.6km az=90.0.
WEL V 31 22 01 07.2–1.1 46.05S 165.95E 12 3.6L
¶601006315

WEL Event type ke. Error ellipse: s-maj=11.5km s-min=4.1km az=90.0.
WEL VI 02 14 47 32.2–.54 46.32S 165.93E 5 3.8L
¶601026874

WEL Event type ke. Error ellipse: s-maj=5.7km s-min=3.1km az=90.0.
WEL VI 06 22 16 27.4–.91 46.15S 165.89E 20 3.6L
¶16578072

WEL Event type ke. Error ellipse: s-maj=8.7km s-min=4.8km az=90.0.
ISC VI 07 02 13 07.2–1.2 47.41S–.09 165.73E–.08 14 3.7b 47 1-145
IDC VI 07 02 13 05.5–2.6 47.25S 165.90E 0 3.8,3.6 **¶16578073**
ISCJB VI 07 02 13 06.1–.95 47.42S–.08 165.70E–.08 14 3.6b,3.6
NEIC VI 07 02 13 06.3 47.53S 165.38E 33 4.2L,3.8b
WEL VI 07 02 13 08.1–.67 47.48S 165.52E 33 4.2L,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=65.2km s-min=31.0km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.3km az=155.8.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=7.6km s-min=3.6km az=90.0.
ISC VI 13 17 26 32.4–.70 46.03S–.08 164.06E–.06 35 3.8b,3.6s 103 2-151
IDC VI 13 17 26 25.1–1.5 46.63S 163.81E 0 5.1L,4.0 **¶16730412**
NEIC VI 13 17 26 27.1–.79 46.39S 163.82E 10 4.7b,4.0
ISCJB VI 13 17 26 31.4–.58 45.93S–.05 164.08E–.05 33 4.0b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
WEL VI 13 18 25 21.7–.94 47.30S 165.26E 33 3.9L
¶16613932

WEL Event type ke. Error ellipse: s-maj=9.0km s-min=7.3km az=90.0.
ISC VI 19 20 53 15.2–.97 46.79S–.08 165.76E–.07 15 3.7b 44 1-153
ISCJB VI 19 20 53 13.9–.96 46.78S–.10 165.70E–.07 15 3.7b **¶16638790**
IDC VI 19 20 53 13.3–1.8 46.48S 165.71E 0 4.0,4.0L
WEL VI 19 20 53 15.5–.83 46.82S 165.75E 12 4.4L,4.0L
NEIC VI 19 20 53 16.3 46.81S 165.90E 12 4.4L,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.3km az=178.6.
IDC Error ellipse: s-maj=61.1km s-min=28.3km az=171.0.
WEL Event type ke. Error ellipse: s-maj=7.8km s-min=4.3km az=90.0.
NEIC Event type se. After WEL.
ISC VI 21 13 01 19.3–1.2 46.23S–.08 166.08E–.07 12 27 0-144
IDC VI 21 13 01 17.2–3.1 46.32S 166.19E 0 4.0,3.7 **¶16646150**
ISCJB VI 21 13 01 19.2–.89 46.14S–.08 166.00E–.07 12 3.8b,3.7
WEL VI 21 13 01 20.6–.39 46.32S 166.04E 20 4.0L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=77.8km s-min=28.3km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.4km az=5.5.
WEL Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=90.0.
ISC VI 22 19 47 50.2–1.6 48.3S–.10 165.26E–.09 35 25 2-145
IDC VI 22 19 47 41.6–9.4 47.46S 166.87E 0 3.6b **¶17206774**
ISCJB VI 22 19 47 49.1–1.1 48.3S–.10 165.3E–.10 33 3.5b
ISC Event type ke.
ISCJB Event type ke.
WEL VI 25 20 17 44.2–.36 45.24S 166.76E 12 3.5L
¶16682695

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=90.0.
WEL VI 27 05 15 28.1–.91 46.77S 165.41E 12 3.6L
¶601027956

WEL Event type ke. Error ellipse: s-maj=10.3km s-min=4.8km az=90.0.
WEL VI 29 02 36 54.4–.88 46.38S 165.98E 5 3.7L
¶601028022

WEL Event type ke. Error ellipse: s-maj=9.9km s-min=3.5km az=90.0.

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ISC I 01 01 05 45.0–.87 43.56S–.03 172.45E–.03 15–6 112 0-149
ISCJB I 01 01 05 44.0–.42 43.60S–.03 172.56E–.05 28–4 3.5b,3.1s **¶15902452**
IDC I 01 01 05 44.0–1.6 43.27S 172.35E 0 3.7,3.6
NEIC I 01 01 05 44.9 43.56S 172.43E 12 4.4L,3.6
WEL I 01 01 05 44.9–.08 43.55S 172.42E 10–1 4.4L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=3.5km az=135.2.
IDC Error ellipse: s-maj=45.9km s-min=13.5km az=148.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 7.
WEL I 04 13 40 54.1–.22 45.33S 167.11E 96–1 3.5L
¶15905603

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=90.0.
WEL I 04 14 12 02.8–.07 43.63S 172.44E 5 3.5L
¶600661694

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC I 04 17 20 05.2–.96 43.59S–.03 171.88E–.03 14–7 71 0-149
ISCJB I 04 17 20 05.5–.46 43.60S–.03 171.93E–.04 26–4 3.5b **¶15905608**
WEL I 04 17 20 05.8–.12 43.58S 171.88E 5 3.8L
IDC I 04 17 20 05.4–11 42.90S 171.85E 0 3.8,3.6
NEIC I 04 17 20 06.6 43.52S 171.91E 12 3.8L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=146.6.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=611.6km s-min=65.9km az=4.0.
NEIC Event type fe. Felt at Hororata. After WEL.
WEL I 05 00 00 50.4–.07 43.59S 172.64E 6–0 3.7L
¶15905614

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL I 05 21 16 00.8–.27 41.17S 172.99E 145–2 3.6L
¶15907148
WEL Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=0.0.
WEL I 06 07 59 54.1–.09 43.55S 172.30E 8–1 3.8L
NEIC I 06 07 59 54.1 43.58S 172.32E 9 3.9L **¶15907151**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL I 10 08 58 48.4–.13 43.68S 172.35E 9–0 4.2L
NEIC I 10 08 58 48.5 43.64S 172.38E 10 4.2L **¶15915780**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=0.0. Felt from Marlborough to Canterbury, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
ISC I 10 09 03 27.4–.80 41.19S–.05 172.51E–.05 216–5 3.6b 214 0-151
ISCJB I 10 09 03 26.5–.32 41.21S–.04 172.51E–.06 217–3 3.6b **¶15915781**
IDC I 10 09 03 26.0–.81 41.25S 172.77E 209–9 4.0s,4.0
NEIC I 10 09 03 28.1 41.29S 172.59E 217 4.4,4.0
WEL I 10 09 03 29.1–.21 41.26S 172.59E 209–1 4.4L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=3.4km az=42.1.
IDC Error ellipse: s-maj=20.4km s-min=9.8km az=130.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=0.0.
WEL I 14 03 39 38.7–.10 43.61S 172.21E 16–1 3.8L
NEIC I 14 03 39 38.8 43.56S 172.22E 11 3.8L **¶15927322**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL I 16 21 47 53.1–.09 43.64S 172.35E 11–0 4.0L
NEIC I 16 21 47 53.2 43.63S 172.37E 12 4.1L **¶15931547**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL I 19 04 21 43.9–.11 43.55S 172.61E 6–0 3.5L
¶15938380
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL I 19 05 13 08.1–.05 43.49S 172.17E 5 2.8L
¶600662121
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
ISC I 19 17 03 20.0–.74 43.60S–.03 172.64E–.03 14–4 4.4b,4.0s 174 0-153
ISCJB I 19 17 03 18.1–.45 43.70S–.03 172.76E–.04 19–3 4.4b,3.9s **¶15942565**
NEIC I 19 17 03 20.6 43.61S 172.52E 0 5.1L,3.9s
IDC I 19 17 03 20.1–1.1 43.35S 172.44E 0 4.6,4.5
WEL I 19 17 03 20.5–.09 43.61S 172.54E 9–0 5.1L,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.0km az=142.9.
NEIC Event type fe. Felt in Canterbury. After WEL.
IDC Error ellipse: s-maj=35.1km s-min=12.1km az=156.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 7.
WEL I 19 19 06 54.2–.08 43.60S 172.41E 14–1 4.0L
NEIC I 19 19 06 54.0 43.59S 172.41E 14 4.0L **¶15942570**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL I 19 22 10 06.9–.08 43.54S 172.64E 8–0 3.9L
¶15942575
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL I 19 23 36 43.2–.08 43.60S 172.53E 9–0 3.9L
¶15942579
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt from Hawke"s Bay to Canterbury, maximum reported intensity MM 5.
WEL I 20 07 23 43.3–.20 45.09S 167.42E 90–2 3.5L
¶15949106
WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.2km az=90.0.
ISC I 20 13 12 21.6–.78 43.60S–.03 172.59E–.03 16–5 40 0-149
ISCJB I 20 13 12 21.2–.50 43.64S–.04 172.63E–.06 20–3 3.4b **¶15949107**
IDC I 20 13 12 21.5–1.9 43.28S 172.46E 0 3.8,3.6
WEL I 20 13 12 22.6–.09 43.61S 172.52E 8–0 4.3L,3.6
NEIC I 20 13 12 22.6 43.61S 172.52E 8 4.4L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.2km az=40.1.
IDC Error ellipse: s-maj=47.2km s-min=14.5km az=149.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL I 20 19 33 52.9–.11 43.63S 172.24E 9–1 3.8L
¶15949111
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL I 24 20 13 51.6–.10 43.55S 172.66E 10–0 4.0L
NEIC I 24 20 13 52.0 43.55S 172.64E 7 4.0L **¶15963821**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type se. After WEL.
WEL I 25 01 42 06.2–.06 43.64S 172.46E 5 3.7L
¶15963822
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL I 25 13 45 27.7–.28 45.13S 167.42E 119–2 3.4L
¶15967672
WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.2km az=90.0.
WEL I 26 03 35 59.3–.08 43.57S 171.92E 3 3.5L
¶15972640
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL I 28 05 04 05.8–.07 43.32S 171.98E 10–0 4.0L
NEIC I 28 05 04 05.8 43.32S 171.99E 11 4.0L **¶15977704**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL I 30 07 57 27.3–.12 43.58S 172.40E 11–1 3.6L
¶15981241
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 03 18 32 51.0–.78 43.26S–.03 172.10E–.03 20–2 4.1b 108 0-149
ISCJB II 03 18 32 48.9–.44 43.32S–.05 172.20E–.06 23–4 3.9b **¶16005318**
BJI II 03 18 32 48.4 43.07S 172.08E 12 5.9b,5.5s
IDC II 03 18 32 50.7–1.6 43.24S 172.02E 0 3.9,3.6
NEIC II 03 18 32 50.6 43.16S 172.03E 9 4.5L,4.1W
WEL II 03 18 32 50.5–.14 43.16S 172.02E 8–1 4.4L,4.2W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=3.6km az=44.7.
IDC Error ellipse: s-maj=45.1km s-min=12.5km az=139.0.
NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s35 Moment tensor: Scale 10^{15}Nm; M_{rr}0.06 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.44 $M_{r\theta}$-0.05 $M_{\theta\phi}$-0.96 $M_{\phi r}$0.50 Best double couple: NP1:ϕ_s243.00000°,δ75.00000°,λ-175.00000°. NP2:ϕ_s152.00000°,δ85.00000°,λ-15.00000°. Principal axes: T 1.6900,Plg7.0000°,Azm198.0000°; N 0.1500,Plg74.0000°,Azm315.0000° ; P -1.8500,Plg14.0000°,Azm106.0000° M_o1.80000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the Canterbury region, Maximum reported intensity MM 5.
WEL II 04 04 56 28.7–.08 43.63S 172.35E 5 4.6L,4.3W
NEIC II 04 04 56 28.6 43.63S 172.36E 5 4.6L,4.3W **¶16005322**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in the Christchurch area. After WEL.

WEL II 04 05 17 46.0–.12 43.64S 172.35E 9–1 3.8L
¶16007040
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=1.1km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
ISC II 04 20 02 25.6–1.2 42.50S–.03 173.86E–.03 4–9 102 0-150
IDC II 04 20 02 26.9–1.6 42.39S 173.65E 0 3.7,3.7L **¶16007042**
ISCJB II 04 20 02 27.8–.71 42.55S–.04 173.88E–.05 21–6 3.4s,3.3b
NEIC II 04 20 02 27.7 42.48S 173.77E 5 4.0L,3.3b
WEL II 04 20 02 27.2–.11 42.49S 173.79E 2 4.0L,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=44.6km s-min=25.6km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=3.5km az=136.2.
NEIC Event type fe. Felt at Kaikoura. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 05 02 50 37.6–.07 43.57S 171.62E 5 3.8L
NEIC II 05 02 50 37.5 43.57S 171.63E 5 3.8L **¶16007043**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 06 00 52 37.9–.17 46.40S 169.40E 12 4.0L,3.5W
NEIC II 06 00 52 38.0 46.39S 169.41E 12 4.1L,3.5W **¶16007689**
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.4km az=90.0. Felt from Otago to Southland, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Southland. After WEL.
WEL II 10 03 16 35.4–.09 43.60S 172.41E 11–0 4.0L,3.6W
NEIC II 10 03 16 35.5 43.60S 172.40E 10 4.0L,3.6W **¶16019819**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 11 12 00 39.5–.07 43.29S 170.83E 5 3.6L
¶16022039
WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0.
WEL II 13 11 12 01.8–.22 41.22S 173.46E 82–2 2.5L
NEIC II 13 11 11 36.3 39.84S 175.56E 32 4.6L **¶16024041**
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=90.0.
NEIC Event type se. After WEL.
WEL II 14 20 29 30.5–.09 43.51S 172.18E 10–0 3.6L
¶16025701
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 17 18 43 29.6–.09 43.60S 172.53E 9–0 3.8L
NEIC II 17 18 43 29.6 43.60S 172.52E 8 3.8L **¶16031873**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 18 23 23 38.0–.19 45.21S 167.20E 68–2 3.0L
¶602335696
WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=90.0.
ISC II 20 03 48 27.0–.90 43.40S–.03 172.43E–.03 17–6 42 0-153
IDC II 20 03 48 25.1–1.5 43.25S 172.44E 0 3.6,3.5 **¶16032965**
ISCJB II 20 03 48 27.0–.38 43.43S–.03 172.44E–.04 24–4 3.3b,3.5
WEL II 20 03 48 27.6–.07 43.41S 172.40E 8–0 3.9L,3.7W
ISC Event type ke.
IDC Error ellipse: s-maj=53.3km s-min=12.7km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.7km az=4.7.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 20 05 34 50.2–.08 43.41S 172.40E 10–0 3.7L
¶16032967
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 20 14 25 15.5–.09 43.40S 172.40E 8–1 3.7L
¶16057006
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 20 21 38 18.3–.06 43.41S 172.42E 9–0 3.6L
¶16057022
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 21 23 51 42.3–.35 43.49S–.02 172.71E–.02 5–1 6.2s,5.8b 1526 0-178
ISCJB II 21 23 51 41.4–.18 43.43S–.02 172.84E–.03 10 6.2s,5.8b **¶16168897**
BJI II 21 23 51 41.0 43.50S 172.80E 5 6.4b,6.3s
NEIC II 21 23 51 42.0–.00 43.51S 172.44E 15 6.4b,6.3s
IDC II 21 23 51 42.3–1.1 43.44S 172.59E 4–6 6.0s,6.0
MOS II 21 23 51 42.1–.98 43.46S 172.56E 10 6.2s,5.9b
NEIC II 21 23 51 42.4 43.58S 172.68E 6 6.5,6.3L
WEL II 21 23 51 42.3–.11 43.58S 172.68E 5–0 6.3L,6.2W
GCMT II 21 23 51 43.0–.10 43.60S 172.52E 12 6.1W,6.2W
NEIC II 21 23 52 02.8–.00 43.57S 172.73E 10 6.1W,6.2W
ISC Event type de.
ISCJB Event type de. Error ellipse: s-maj=3.9km s-min=2.1km az=136.0.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{18}Nm; M_{rr}0.60 $M_{\theta\theta}$0.60 $M_{\phi\phi}$-1.20 $M_{r\theta}$0.50 $M_{\theta\phi}$-1.00 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s166.00000° ,δ70.00000°,λ33.00000°. NP2:ϕ_s64.00000°,δ59.00000°,λ156.00000°. Principal axes: T 1.6000,Plg37.0000°,Azm28.0000°; N 0.1000,Plg51.0000°,Azm194.0000° ; P -1.7000,Plg6.0000°,Azm293.0000° M_o2.00000×10^{18}
IDC Error ellipse: s-maj=8.8km s-min=6.9km az=20.0.
MOS Error ellipse: s-maj=11.9km s-min=8.7km az=115.3.
NEIC Event type de. At least 181 people killed, 1,500 injured and about 100,000 buildings destroyed or damaged [VIII] in the Christchurch-Lyttleton area. Landslides and liquefaction occurred in the area. Felt in much of Canterbury and as far as Invercargill and Palmerston North. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After WEL. Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s58.00000°,δ64.00000°,λ146.00000°. NP2: ϕ_s165.00000°,δ60.00000°,λ31.00000°. Principal axes: T Plg42.0000°,Azm20.0000° ; N Plg0.0000°,Azm0.0000°; P Plg2.0000°,Azm112.0000°
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Bay of Plenty to Southland, maximum reported intensity MM 8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c261; s141,c464;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}1.09±.01 $M_{\theta\theta}$0.60±.01; $M_{\phi\phi}$-1.70±.01; $M_{r\theta}$0.32±.03; $M_{\theta\phi}$-1.20±.01; $M_{\phi r}$-0.27±.03; Best double couple: NP1:ϕ_s168.00000°,δ62.00000°,λ36.00000°. NP2:ϕ_s59.00000° ,δ59.00000°,λ147.00000°. Principal axes: T 1.4990,Plg44.0000°,Azm25.0000° ; N 0.7090,Plg46.0000°,Azm201.0000°; P -2.2160,Plg2.0000°,Azm293.0000° M_o1.85800×10^{18}
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}1.11 $M_{\theta\theta}$0.58 $M_{\phi\phi}$-1.69 $M_{r\theta}$0.20 $M_{\theta\phi}$-1.23 $M_{\phi r}$-0.40 Best double couple: NP1:ϕ_s170.00000° ,δ64.00000°,λ39.00000°. NP2:ϕ_s60.00000°,δ56.00000°,λ148.00000°. Principal axes: T 1.4700,Plg45.0000°,Azm28.0000°; N 0.7800,Plg44.0000°,Azm198.0000° ; P -2.2500,Plg5.0000°,Azm293.0000° M_o1.90000×10^{18}
WEL II 21 23 53 32.7–.15 43.56S 172.73E 7–0 4.8L
¶602335886
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0.
WEL II 21 23 54 27.3–.33 43.54S 172.81E 5 4.6L
¶602335889
WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=90.0.
WEL II 21 23 54 45.5–.27 43.59S 172.68E 7–1 4.2L
¶602335892
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=90.0.
WEL II 21 23 55 53.2–.57 43.57S 172.78E 5 4.3L
¶602734480
WEL Event type ke. Error ellipse: s-maj=6.2km s-min=1.2km az=90.0.
WEL II 21 23 56 04.4–.12 43.56S 172.67E 5 4.5L
¶602734479
WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.5km az=90.0. Felt in the Canterbury region.
WEL II 21 23 56 45.7–.15 43.55S 172.67E 5 4.1L
¶602734481
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=90.0.
ISC II 21 23 56 52.8–.97 43.62S–.03 172.83E–.04 11–5 4.3b 63 0-153

ISCJB II 21 23 56 51.8–.80 43.66S–.03 172.87E–.05 12–3 4.6b ¶16066014
IDC II 21 23 56 53.0–1.3 43.46S 172.71E 0 4.8,4.5
WEL II 21 23 56 54.6–.08 43.59S 172.67E 5 4.9L,4.5
NEIC II 21 23 56 54.7 43.59S 172.66E 5 4.9L,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.5km az=37.7.
IDC Error ellipse: s-maj=48.9km s-min=15.2km az=163.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 21 23 57 30.4–.84 43.89S 172.95E 26–3 4.2L ¶602734478
WEL Event type ke. Error ellipse: s-maj=11.2km s-min=7.6km az=90.0.
WEL II 21 23 59 29.3–.20 43.59S 172.70E 7–1 3.8L ¶602335893
WEL Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=90.0.
WEL II 21 23 59 36.4–.16 43.58S 172.69E 5–1 4.2L ¶602335896
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=90.0.
WEL II 22 00 00 31.2–.15 43.55S 172.70E 6–1 3.8L ¶602335934
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=90.0.
WEL II 22 00 00 43.6–.17 43.57S 172.71E 5–0 3.8L ¶602335937
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.5km az=90.0.
WEL II 22 00 01 54.3–.11 43.59S 172.67E 5 3.9L ¶602335938
WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=90.0.
WEL II 22 00 02 14.7–.09 43.58S 172.68E 6–0 3.5L ¶602335941
WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0.
WEL II 22 00 03 08.7–.24 43.58S 172.70E 7–1 3.7L ¶602335944
WEL Event type ke. Error ellipse: s-maj=3.6km s-min=0.9km az=90.0.
WEL II 22 00 04 02.4–.14 43.58S 172.71E 5 3.6L ¶602734482
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0.
ISC II 22 00 04 17.6–.74 43.57S–.03 172.85E–.03 1–4 5.8s,5.2b 631 0-175
IDC II 22 00 04 17.7–.55 43.54S 172.68E 0 5.1,5.0 ¶16057215
BJI II 22 00 04 17.6 43.90S 172.40E 5 6.1b,6.1s
ISCJB II 22 00 04 17.1–.23 43.56S–.03 172.88E–.03 10 5.8s,5.3b
WEL II 22 00 04 19.3–.10 43.59S 172.66E 6–0 5.8L,5.5W
GCMT II 22 00 04 19.4–.20 43.50S 172.56E 12 5.5W,5.5W
NEIC II 22 00 04 19.4 43.59S 172.65E 6 5.7L,5.7b
MOS II 22 00 04 19.0–1.4 43.34S 172.65E 10 5.4b,5.7b
ISC Event type fe.
IDC Error ellipse: s-maj=23.2km s-min=11.6km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.0km az=143.2.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt from Nelson to Southland, maximum reported intensity MM 7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s10,c10; s108,c192;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.33±.06 $M_{\theta\theta}$1.31±.05; $M_{\phi\phi}$-1.64±.05; $M_{r\theta}$0.40±.18; $M_{\theta\phi}$-1.76±.05; $M_{\phi r}$0.10±.18; Best double couple: NP1:ϕ_s70.00000°,δ87.00000°,λ169.00000°. NP2:ϕ_s160.00000°,δ79.00000°,λ3.00000°. Principal axes: T 2.1850,Plg10.0000°,Azm24.0000°; N 0.2960,Plg79.0000°,Azm234.0000°; P -2.4860,Plg5.0000°,Azm115.0000° M_o2.33500×10^{17}
NEIC Event type fe. Felt strongly in the Christchurch area and [IV] at Dunedin and Oamaru. Felt widely in Canterbury and as far as Invercargill and Wellington. After WEL. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.04 $M_{\theta\theta}$2.15 $M_{\phi\phi}$-1.11 $M_{r\theta}$0.77 $M_{\theta\phi}$-1.61 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s66.00000°,δ70.00000°,λ-178.00000°. NP2:ϕ_s336.00000°,δ88.00000°,λ-20.00000°. Principal axes: T 3.0100,Plg13.0000°,Azm23.0000°; N -1.1900,Plg70.0000°,Azm150.0000°; P -1.8200,Plg16.0000°,Azm289.0000° M_o2.60000×10^{17}
MOS Error ellipse: s-maj=14.2km s-min=11.1km az=117.1.
WEL II 22 00 05 36.9–.06 43.59S 172.66E 5 4.6L ¶602335945
WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Mag. doubtful.
WEL II 22 00 06 14.5–.21 43.53S 172.76E 6–1 3.9L ¶602335948
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=90.0. Mag. doubtful.
WEL II 22 00 06 56.8–.29 43.56S 172.79E 7–2 4.4L ¶602335951
WEL Event type fe. Error ellipse: s-maj=2.5km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 22 00 07 47.7–.17 43.53S 172.78E 5 4.3L ¶602335954
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=90.0.
WEL II 22 00 08 15.3–.14 43.60S 172.66E 7–1 4.7L ¶602335957
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Mag. high?.
WEL II 22 00 10 46.3–.09 43.55S 172.71E 6–0 4.0L ¶602335958
WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=90.0.
WEL II 22 00 11 27.9–.28 43.55S 172.70E 5 3.7L ¶602335961
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=1.1km az=90.0.
WEL II 22 00 12 13.1–.08 43.58S 172.69E 5 3.6L ¶602335964
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL II 22 00 12 32.3–.15 43.55S 172.70E 5 3.7L ¶602335967
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=90.0.
WEL II 22 00 13 05.6–.11 43.59S 172.66E 5 3.7L ¶602335970
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0.
WEL II 22 00 14 37.3–.13 43.55S 172.70E 8–0 3.8L ¶602335971
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0.
WEL II 22 00 14 54.0–.16 43.59S 172.72E 7–0 3.8L ¶602335974
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=90.0.
WEL II 22 00 16 31.0–.19 43.56S 172.69E 8–1 3.5L ¶602335980
WEL Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=90.0.
WEL II 22 00 17 14.2–.08 43.59S 172.62E 5 3.7L ¶602335983
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0.
WEL II 22 00 18 47.0–.15 43.57S 172.69E 8–0 3.5L ¶602335984
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=90.0.
WEL II 22 00 18 56.7–.37 43.53S 172.66E 5 3.5L ¶602335987
WEL Event type ke. Error ellipse: s-maj=5.2km s-min=1.7km az=90.0.
ISC II 22 00 21 26.0–1.1 43.55S–.04 172.85E–.04 18–5 73 0-149
IDC II 22 00 21 24.0–1.6 43.45S 172.78E 0 3.8,3.7 ¶16066015
NEIC II 22 00 21 23.8 43.64S 173.01E 5 4.1L,3.7
ISCJB II 22 00 21 24.0–.70 43.64S–.03 172.95E–.04 17–6 3.4b,3.7
WEL II 22 00 21 25.8–.27 43.55S 172.79E 8–1 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=49.1km s-min=16.5km az=161.0.
NEIC Event type se. After WEL.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.5km az=138.9.
WEL Event type fe. Error ellipse: s-maj=2.6km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL II 22 00 22 55.0–.12 43.61S 172.65E 6–0 3.6L ¶602798197
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
ISC II 22 00 23 00.9–1.1 43.62S–.04 172.80E–.04 8–7 56 0-149
WEL II 22 00 23 01.4–.13 43.58S 172.75E 7–0 4.3L ¶16160415
NEIC II 22 00 23 01.7 43.59S 172.71E 8 4.4L

IDC II 22 00 23 03.4–1.9 44.83S 171.33E 0 4.2,3.9
ISC Event type ke.
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0.
NEIC Event type se. After WEL.
IDC Error ellipse: s-maj=52.5km s-min=14.3km az=87.0.
WEL II 22 00 24 20.4–.11 43.58S 172.67E 6–0 3.7L ¶602335988
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL II 22 00 31 05.7–.14 43.59S 172.75E 10–0 4.1L
NEIC II 22 00 31 05.3 43.61S 172.78E 9 4.2L ¶16160383
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
NEIC Event type se. After WEL.
WEL II 22 00 31 57.9–.14 43.59S 172.66E 6–0 3.6L ¶602357188
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=90.0.
ISC II 22 00 32 24.4–1.2 43.54S–.04 172.82E–.05 9–7 36 0-149
ISCJB II 22 00 32 22.7–.80 43.57S–.04 172.93E–.05 6–7 3.4b ¶602357191
IDC II 22 00 32 25.0–1.6 43.54S 172.66E 0 3.8,3.7
WEL II 22 00 32 25.4–.17 43.55S 172.74E 5–0 4.2L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.9km az=159.3.
IDC Error ellipse: s-maj=57.1km s-min=17.1km az=171.0.
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=90.0.
WEL II 22 00 33 59.6–.11 43.60S 172.64E 5 3.5L ¶602357189
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=90.0.
WEL II 22 00 34 54.7–.15 43.62S 172.63E 13–1 3.5L ¶602357190
WEL Event type ke. Error ellipse: s-maj=2.3km s-min=0.6km az=90.0.
WEL II 22 00 43 07.5–.21 43.56S 172.72E 9–0 3.5L ¶602336017
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0.
WEL II 22 00 44 10.2–.11 43.58S 172.69E 7–0 3.1L ¶602336018
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0.
WEL II 22 00 44 24.4–.22 43.56S 172.60E 5 2.8L ¶602336021
WEL Event type ke. Error ellipse: s-maj=3.5km s-min=0.8km az=90.0.
WEL II 22 00 46 16.2–.09 43.59S 172.60E 4–1 3.1L ¶602734484
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=90.0.
WEL II 22 00 46 30.9–.27 43.59S 172.72E 5 3.3L ¶602734483
WEL Event type ke. Error ellipse: s-maj=2.6km s-min=0.8km az=90.0.
WEL II 22 00 46 38.6–.14 43.60S 172.64E 7–1 4.3L
NEIC II 22 00 46 37.2 43.66S 172.84E 5 4.4L ¶16066016
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL II 22 00 47 51.1–.12 43.52S 172.73E 8–0 3.9L ¶602336023
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0.
WEL II 22 00 52 08.9–.13 43.57S 172.72E 8–0 3.6L ¶602336028
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0.
WEL II 22 00 52 16.4–.11 43.59S 172.65E 6–0 3.7L ¶602336031
WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0.
WEL II 22 01 02 43.0–.07 43.59S 172.65E 3–0 3.3L ¶602336058
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=90.0.
WEL II 22 01 04 47.7–.20 43.55S 172.76E 6–1 3.4L ¶602336062
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=90.0.
WEL II 22 01 15 43.0–.13 43.56S 172.68E 8–0 4.0L ¶602734486
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0.
ISC II 22 01 15 54.0–.96 43.57S–.03 172.68E–.04 7–6 66 0-149
ISCJB II 22 01 15 52.3–.58 43.63S–.04 172.78E–.05 11–4 3.9b ¶16066017
WEL II 22 01 15 54.7–.08 43.60S 172.63E 5–0 4.4L
NEIC II 22 01 15 54.4 43.59S 172.66E 5 4.4L
IDC II 22 01 15 54.9–1.6 43.28S 172.50E 0 4.1,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.1km az=144.1.
WEL Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
IDC Error ellipse: s-maj=48.4km s-min=13.6km az=150.0.
WEL II 22 01 16 23.8–.25 43.53S 172.74E 8–1 3.5L ¶602734485
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 22 01 20 09.6–.12 43.59S 172.70E 7–0 4.4W,3.6L ¶602734487
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 22 01 20 55.3–.92 43.59S–.03 172.81E–.04 11–6 126 0-149
ISCJB II 22 01 20 54.2–.56 43.65S–.03 172.85E–.04 17–5 3.8b ¶16066018
IDC II 22 01 20 54.6–1.4 43.35S 172.69E 0 4.2,4.1L
WEL II 22 01 20 56.5–.08 43.58S 172.70E 9–0 4.5L,4.1L
NEIC II 22 01 20 56.5 43.58S 172.72E 4 4.5L,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=140.2.
IDC Error ellipse: s-maj=43.0km s-min=14.4km az=155.0.
WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 22 01 23 26.9–.25 43.56S 172.82E 4–1 3.8L ¶602336080
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=90.0.
WEL II 22 01 29 54.4–.18 43.59S 172.68E 4–1 2.9L ¶602910798
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=90.0.
WEL II 22 01 30 29.1–.25 43.57S 172.70E 8–0 3.3L ¶602910799
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=90.0.
WEL II 22 01 31 21.9–.11 43.60S 172.61E 5–1 3.3L ¶602910800
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=90.0.
WEL II 22 01 31 49.8–.08 43.57S 172.63E 5 3.3L ¶602910801
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=90.0.
WEL II 22 01 32 39.2–.17 43.59S 172.65E 7–0 2.9L ¶602910802
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=90.0.
WEL II 22 01 33 15.8–.22 43.58S 172.74E 5 2.8L ¶16118173
WEL Event type ke. Error ellipse: s-maj=2.3km s-min=0.6km az=90.0.
WEL II 22 01 38 08.5–.07 43.60S 172.60E 5 3.5L ¶602336089
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 01 38 22.9–.08 43.60S 172.63E 3–0 3.5L ¶602336092
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=90.0.
WEL II 22 01 39 38.7–.24 43.53S 172.68E 5 2.7L ¶602734489
WEL Event type ke. Error ellipse: s-maj=3.2km s-min=0.8km az=90.0.
WEL II 22 01 39 55.7–.12 43.58S 172.66E 4–0 2.9L ¶602734491
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL II 22 01 39 59.0–.13 43.53S 172.73E 8–0 4.0L
NEIC II 22 01 39 58.5 43.56S 172.74E 8 4.0L ¶16118175

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 22 01 40 29.4–.28 43.60S 172.58E 5 3.5L ¶602734490

WEL Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=90.0.
WEL II 22 01 41 14.4–.07 43.55S 172.63E 5 3.0L ¶602734492

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.5km az=90.0.
WEL II 22 01 41 36.7–.11 43.60S 172.63E 7–0 2.9L ¶602734493

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=0.7km az=90.0.
WEL II 22 01 42 08.3–.14 43.55S 172.66E 6–0 2.8L ¶602734494

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=0.6km az=90.0.
WEL II 22 01 42 50.2–.32 43.58S 172.67E 5 2.8L ¶602734488

WEL Event type ke. Error ellipse: s-maj=4.1km s-min=1.1km az=90.0.
WEL II 22 01 48 49.2–.25 43.59S 172.68E 5 2.6L ¶602336107

WEL Event type ke. Error ellipse: s-maj=3.3km s-min=0.8km az=90.0.
WEL II 22 01 49 36.6–.07 43.58S 172.63E 2 2.6L ¶602734496

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=90.0.
WEL II 22 01 50 17.7–.05 43.60S 172.58E 4–1 3.1L ¶602734497

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.3km az=90.0.
ISC II 22 01 50 28.6–.76 43.59S–.03 172.74E–.03 5–4 5.5s,5.4b 694 0-175
ISCJB II 22 01 50 26.8–.20 43.61S–.02 172.83E–.03 10 5.5s,5.4b **¶16168899**
IDC II 22 01 50 28.4–.43 43.43S 172.67E 0 5.2,5.2s
BJI II 22 01 50 28.3 43.94S 172.20E 7 6.0b,5.5s
NEIC II 22 01 50 29.7 43.60S 172.62E 7 5.9L,5.6W
WEL II 22 01 50 29.8–.09 43.59S 172.63E 7–0 5.9L,5.6W
MOS II 22 01 50 29.3–1.2 43.48S 172.52E 10 5.4b,5.4s
GCMT II 22 01 50 29.7–.10 43.50S 172.55E 12 5.6W,5.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=1.8km az=141.5.
IDC Error ellipse: s-maj=15.6km s-min=10.8km az=168.0.
NEIC Event type fe. Felt strongly in the Christchurch area. After WEL. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.23 $M_{\theta\theta}$1.92 $M_{\phi\phi}$-1.69 $M_{r\theta}$-0.27 $M_{\theta\phi}$-1.75 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s335.00000°,δ77.00000°,λ-15.00000°. NP2:ϕ_s69.00000° ,δ75.00000°,λ-167.00000°. Principal axes: T 2.6300,Plg1.0000°,Azm22.0000° ; N 0.0800,Plg71.0000°,Azm116.0000°; P -2.7100,Plg19.0000°,Azm292.0000° $M_0$2.70000×10^{17}
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt from Fiordland to Wellington, maximum reported intensity MM 7.
MOS Error ellipse: s-maj=14.0km s-min=11.1km az=125.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s72,c109; s131,c306;Duration: 1₹6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.04 $M_{\theta\theta}$2.12±.04; $M_{\phi\phi}$-2.15±.03; $M_{r\theta}$0.50±.10; $M_{\theta\phi}$-2.00±.03; $M_{\phi r}$0.83±.11; Best double couple: NP1: ϕ_s248.00000°,δ81.00000°,λ-166.00000°. NP2:ϕ_s155.00000°,δ76.00000°,λ-9.00000°. Principal axes: T 2.9200,Plg3.0000°,Azm21.0000°; N 0.3010,Plg73.0000°,Azm280.0000° ; P -3.2190,Plg16.0000°,Azm112.0000° $M_0$3.06900×10^{17}
WEL II 22 01 51 05.5–.22 43.56S 172.60E 4–1 4.4L ¶602734498

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0.
WEL II 22 01 51 09.9–.16 43.59S 172.63E 7–0 5.0L ¶602734495

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0.
WEL II 22 01 52 12.5–.13 43.59S 172.64E 9–0 4.4L ¶602336111

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
WEL II 22 01 52 37.6–.13 43.58S 172.66E 4–1 4.1L ¶602336114

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0.
WEL II 22 01 52 49.2–.10 43.59S 172.64E 5–0 3.9L ¶602336117

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0.
WEL II 22 01 53 05.2–.05 43.60S 172.65E 5 3.6L ¶602336120

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0.
WEL II 22 01 53 13.3–.13 43.60S 172.64E 6–1 3.7L ¶602336123

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0.
WEL II 22 01 53 29.2–.07 43.58S 172.64E 6–0 3.8L ¶602336126

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=90.0.
WEL II 22 01 53 53.9–.09 43.60S 172.67E 5 3.6L ¶602336135

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.4km az=90.0.
WEL II 22 01 54 14.3–.12 43.54S 172.66E 6–0 3.9L ¶602336138

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0.
WEL II 22 01 54 42.8–.11 43.56S 172.62E 4–0 3.7L ¶602336141

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=0.5km az=90.0.
WEL II 22 01 54 52.2–.16 43.62S 172.58E 5 3.6L ¶602336144

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=90.0.
WEL II 22 01 55 35.2–.03 43.60S 172.57E 5–0 4.0L ¶602336147

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=90.0.
WEL II 22 01 55 38.9–.12 43.59S 172.60E 6–1 4.3L ¶602336150

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=90.0.
WEL II 22 01 57 50.9–.08 43.57S 172.64E 5–0 4.0L ¶602336154

WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0.
WEL II 22 01 58 49.4–.08 43.61S 172.62E 5–0 3.6L ¶602336157

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=90.0.
WEL II 22 01 59 42.2–.13 43.60S 172.63E 5 3.6L ¶602336160

WEL Event type ke. Error ellipse: s-maj=3.6km s-min=1.1km az=90.0.
WEL II 22 02 03 08.1–.07 43.60S 172.62E 5 3.5L ¶602336173

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0.
WEL II 22 02 03 53.4–.11 43.59S 172.62E 5 3.4L ¶602734499

WEL Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=90.0.
WEL II 22 02 04 16.6–.14 43.61S 172.62E 7–1 3.7L ¶602734500

WEL Event type fe. Error ellipse: s-maj=2.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 02 04 49.8–.10 43.59S 172.65E 5 3.2L ¶16066021

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0.
WEL II 22 02 07 52.8–.15 43.55S 172.66E 8–0 3.0L ¶602734501

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0.
WEL II 22 02 08 30.2–.11 43.60S 172.61E 8–0 3.8L ¶602734502

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 02 08 52.0–.20 43.58S 172.59E 5 3.3L ¶602734503

WEL Event type ke. Error ellipse: s-maj=2.9km s-min=0.5km az=90.0.
WEL II 22 02 09 10.9–.11 43.57S 172.62E 5–0 3.3L ¶16066022

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=90.0.
WEL II 22 02 20 41.4–.15 43.60S 172.67E 8–0 2.9L ¶602734505

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=90.0.
WEL II 22 02 21 22.1–.11 43.60S 172.62E 7–0 3.5L ¶602734506

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0.
WEL II 22 02 21 42.3–.10 43.59S 172.64E 3–0 4.2L
NEIC II 22 02 21 41.1 43.58S 172.80E 5 4.3L **¶16066023**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 22 02 21 57.0–.04 43.59S 172.66E 5 3.5L ¶602734507

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=90.0.
WEL II 22 02 22 33.8–.08 43.59S 172.60E 5 3.0L ¶602734504

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0.
WEL II 22 02 32 45.7–.09 43.58S 172.64E 5–0 3.5L ¶602336227

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0.
WEL II 22 02 40 18.3–.17 43.56S 172.72E 6–1 3.0L ¶602336238

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0.
WEL II 22 02 41 06.2–.15 43.59S 172.64E 4–1 2.9L ¶602336241

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=90.0.
WEL II 22 02 42 17.3–.07 43.56S 172.65E 8–0 2.9L ¶602734509

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0.
WEL II 22 02 42 39.5–.17 43.58S 172.61E 4–1 3.0L ¶602734510

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=90.0.
WEL II 22 02 42 49.3–.14 43.56S 172.74E 7–0 2.9L ¶602734511

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
ISC II 22 02 43 01.3–1.2 43.59S–.04 172.87E–.04 7–7 3.9b 196 0-150
ISCJB II 22 02 42 59.4–.59 43.64S–.03 172.95E–.03 6–4 4.0b **¶16066024**
IDC II 22 02 43 01.4–1.0 43.41S 172.77E 0 4.3,4.1
WEL II 22 02 43 02.8–.13 43.57S 172.75E 7–0 4.5L,4.1
NEIC II 22 02 43 02.4 43.58S 172.81E 11 4.6L,4.0b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=2.8km az=144.0.
IDC Error ellipse: s-maj=43.2km s-min=14.2km az=162.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL II 22 02 43 59.7–.07 43.57S 172.61E 5 3.5L ¶602734512

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0.
WEL II 22 02 44 46.1–.09 43.59S 172.62E 6–0 3.3L ¶602734513

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=90.0.
WEL II 22 02 45 12.9–.19 43.54S 172.71E 10–1 3.3L ¶602734508

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=90.0.
WEL II 22 02 46 31.4–.14 43.59S 172.72E 5 2.9L ¶602336248

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=90.0.
WEL II 22 02 46 43.8–.10 43.60S 172.63E 5–0 3.1L ¶602336251

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=90.0.
ISC II 22 02 48 18.4–.82 43.61S–.03 172.67E–.04 14–4 3.6b 146 0-153
ISCJB II 22 02 48 16.5–.57 43.65S–.03 172.83E–.04 16–5 3.9b **¶16066025**
WEL II 22 02 48 18.9–.10 43.60S 172.63E 10–0 4.4L
IDC II 22 02 48 19.2–1.6 43.36S 172.48E 0 4.0,3.7
NEIC II 22 02 48 19.1 43.59S 172.56E 5 4.5L,4.4b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.3km az=137.1.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=50.6km s-min=14.6km az=156.0.
NEIC Event type se. After WEL.
WEL II 22 02 49 19.1–.29 43.58S 172.76E 5 3.3L ¶602734514

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.3km az=90.0.
WEL II 22 02 52 45.9–.14 43.58S 172.71E 6–0 3.7L ¶602336261

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL II 22 02 55 06.1–.09 43.59S 172.63E 6–0 3.6L ¶602336268

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0.
ISC II 22 03 04 08.6–.58 43.59S–.03 172.69E–.03 10 4.2s,4.1b 138 0-153
ISCJB II 22 03 04 06.1–.30 43.64S–.03 172.81E–.03 10 4.3s,4.3b **¶16057294**
IDC II 22 03 04 07.6–1.2 43.34S 172.63E 0 4.4,4.1
BJI II 22 03 04 08.5 43.60S 172.70E 12 4.9b,4.9s
NEIC II 22 03 04 09.1 43.57S 172.65E 12 5.0L,4.5b
WEL II 22 03 04 09.3–.14 43.57S 172.60E 4–1 4.9L,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=146.7.
IDC Error ellipse: s-maj=43.8km s-min=14.0km az=157.0.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s25 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.29 $M_{\theta\theta}$3.66 $M_{\phi\phi}$-3.37 $M_{r\theta}$1.91 $M_{\theta\phi}$-3.98 $M_{\phi r}$-0.80 Best double couple: NP1:ϕ_s161.00000°,δ77.00000°,λ12.00000°. NP2:ϕ_s68.00000° ,δ78.00000°,λ167.00000°. Principal axes: T 6.1200,Plg18.0000°,Azm24.0000° ; N -0.9600,Plg72.0000°,Azm207.0000°; P -5.1700,Plg1.0000°,Azm114.0000° $M_0$5.70000×10^{15}
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.0km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.
WEL II 22 03 05 27.6–.12 43.58S 172.62E 7–1 3.9L ¶602336290

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL II 22 03 05 54.2–.13 43.58S 172.62E 5 3.5L ¶602336293

WEL Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=90.0.
WEL II 22 03 06 31.1–.11 43.59S 172.66E 3–1 3.6L ¶602336296

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL II 22 03 23 42.9–.20 43.59S 172.62E 5 2.8L ¶602734515

WEL Event type ke. Error ellipse: s-maj=5.6km s-min=1.8km az=90.0.
WEL II 22 03 23 54.3–.14 43.55S 172.71E 7–0 3.5L ¶602734516

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0.
ISC II 22 03 24 03.6–1.0 43.57S–.03 172.73E–.04 7–6 3.6b 51 0-149
ISCJB II 22 03 24 02.4–.78 43.58S–.04 172.82E–.05 4–5 3.8b **¶16066026**
WEL II 22 03 24 04.8–.07 43.60S 172.64E 5 4.2L
NEIC II 22 03 24 04.8 43.60S 172.67E 5 4.4L,4.0b
IDC II 22 03 24 05.2–1.5 43.14S 172.43E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=142.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
IDC Error ellipse: s-maj=44.7km s-min=13.0km az=143.0.
WEL II 22 03 31 15.2–.30 43.58S 172.67E 5 2.7L ¶602734517

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=1.3km az=90.0.
WEL II 22 03 32 23.4–.12 43.54S 172.70E 7–0 4.1L
NEIC II 22 03 32 23.0 43.54S 172.72E 10 4.2L **¶16066027**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 22 03 35 03.7–.08 43.58S 172.66E 3–0 3.6L ¶602336325
WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0.
WEL II 22 03 42 13.4–.09 43.58S 172.58E 5 2.7L ¶602336334
WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0.
WEL II 22 03 42 19.5–.17 43.54S 172.70E 7–1 3.0L ¶602336337
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=90.0.
WEL II 22 03 43 54.1–.17 43.54S 172.73E 8–0 3.7L ¶602734518
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Canterbury region.
WEL II 22 03 44 38.9–.19 43.57S 172.68E 6–1 3.2L ¶602734519
WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=90.0.
WEL II 22 03 45 15.6–.29 43.58S 172.64E 5 3.1L ¶16066028
WEL Event type ke. Error ellipse: s-maj=5.3km s-min=2.1km az=90.0.
WEL II 22 03 46 21.4–.06 43.58S 172.60E 5 2.9L ¶602734520
WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0.
WEL II 22 03 46 43.7–.13 43.58S 172.61E 6–1 3.9L ¶602734521
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0.
ISC II 22 03 46 53.2–.96 43.54S–.03 172.72E–.04 9–6 67 0-149
ISCJB II 22 03 46 52.1–.48 43.57S–.04 172.76E–.04 12–4 3.2b **¶16066029**
NEIC II 22 03 46 53.8 43.58S 172.64E 11 4.2L
IDC II 22 03 46 53.1–2.6 43.32S 172.57E 0 3.6,3.5
WEL II 22 03 46 54.3–.07 43.58S 172.63E 7–0 4.1L,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.2km az=155.7.
NEIC Event type fe. Felt in Canterbury. After WEL.
IDC Error ellipse: s-maj=57.1km s-min=18.3km az=149.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 22 04 19 05.2–.82 43.57S–.03 172.70E–.03 11–5 3.9b 126 0-153
IDC II 22 04 19 02.9–1.1 43.48S 172.79E 0 4.1,3.9 **¶16057295**
ISCJB II 22 04 19 03.1–.67 43.63S–.03 172.84E–.04 6–5 4.3b,4.1s
NEIC II 22 04 19 05.8 43.60S 172.75E 13 4.6L,4.1W
WEL II 22 04 19 06.2–.08 43.58S 172.63E 5–0 4.4L,4.1W
ISC Event type fe.
IDC Error ellipse: s-maj=46.1km s-min=14.7km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.1km az=140.6.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s14
Moment tensor: Scale 10^{15}Nm; M_{rr}0.46 $M_{\theta\theta}$-1.09 $M_{\phi\phi}$0.63 $M_{r\theta}$0.91 $M_{\theta\phi}$-1.03 $M_{\phi r}$-0.08
Best double couple: NP1:ϕ_s104.00000°,δ82.00000°,λ142.00000°. NP2:ϕ_s200.00000°,δ53.00000°,λ10.00000°. Principal axes: T 1.4000,Plg32.0000°,Azm55.0000°
; N 0.4500,Plg52.0000°,Azm274.0000°; P -1.8500,Plg19.0000°,Azm158.0000°
M_o1.70000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 04 30 25.8–.25 43.55S 172.74E 7–1 3.5L ¶16066033
WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=90.0.
WEL II 22 04 46 35.2–.19 43.55S 172.73E 6–1 2.6L ¶602910803
WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=90.0.
WEL II 22 04 46 51.0–.09 43.58S 172.59E 5–1 3.4L ¶16118178
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=90.0.
WEL II 22 04 53 48.9–.11 43.59S 172.61E 9–0 3.6L ¶602336376
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0.
WEL II 22 04 56 51.5–.13 43.56S 172.70E 8–0 4.0L
NEIC II 22 04 56 51.5 43.59S 172.71E 13 4.0L **¶16066034**
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL II 22 04 57 25.9–.10 43.60S 172.62E 6–0 3.3L ¶602734522
WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=90.0.
WEL II 22 04 58 01.1–.04 43.58S 172.57E 5 2.9L ¶602798198
WEL Event type ke. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0.
WEL II 22 05 02 27.2–.10 43.59S 172.66E 4–0 2.6L ¶602734524
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=90.0.
WEL II 22 05 03 11.6–.13 43.62S 172.64E 8–1 4.2L
NEIC II 22 05 03 09.8–.45 43.76S 172.91E 10 4.3L **¶16066035**
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Error ellipse: s-maj=12.9km s-min=3.4km az=132.0. Felt at Christchurch.
WEL II 22 05 04 08.8–.09 43.59S 172.62E 9–0 3.8L ¶602734523
WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0.
WEL II 22 05 07 12.4–.14 43.60S 172.63E 7–1 3.6L ¶602336381
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0.
WEL II 22 05 14 22.0–.10 43.59S 172.63E 4–1 3.5L ¶16066036
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0.
WEL II 22 05 17 22.3–.11 43.59S 172.61E 9–0 3.9L ¶16066037
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
WEL II 22 05 18 38.8–.22 43.54S 172.73E 6–1 3.5L ¶602336382
WEL Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=90.0.
ISC II 22 05 59 35.1–.94 43.61S–.04 172.76E–.04 10–6 4.0b,3.4s 115 0-153
ISCJB II 22 05 59 33.6–.54 43.67S–.03 172.83E–.04 12–3 4.4b,3.4s **¶16066038**
NEIC II 22 05 59 35.0 43.64S 172.77E 5 4.7L,4.3W
IDC II 22 05 59 36.4–1.3 43.29S 172.49E 0 4.3,4.0b
WEL II 22 05 59 36.1–.12 43.61S 172.67E 8–0 4.6L,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.0km az=143.6.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s18
Moment tensor: Scale 10^{15}Nm; M_{rr}1.01 $M_{\theta\theta}$2.21 $M_{\phi\phi}$-3.22 $M_{r\theta}$1.09 $M_{\theta\phi}$-1.70 $M_{\phi r}$-0.17
Best double couple: NP1:ϕ_s154.00000°,δ71.00000°,λ18.00000°. NP2:ϕ_s58.00000°,δ73.00000°,λ160.00000°. Principal axes: T 3.2400,Plg26.0000°,Azm15.0000°
; N 0.4700,Plg64.0000°,Azm200.0000°; P -3.7100,Plg2.0000°,Azm106.0000°
M_o3.50000×10^{15}
IDC Error ellipse: s-maj=45.5km s-min=13.5km az=154.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 06 04 21.2–.11 43.60S 172.62E 5 3.5L ¶602336403
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0.
WEL II 22 06 05 06.1–.16 43.54S 172.70E 8–1 3.6L ¶602336406
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0.
WEL II 22 06 14 45.0–.27 43.53S 172.77E 7–1 3.0L ¶602734525
WEL Event type ke. Error ellipse: s-maj=2.8km s-min=0.9km az=90.0.
WEL II 22 06 15 26.4–.16 43.51S 172.75E 10–0 3.8L ¶602734526
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0.
WEL II 22 06 16 26.5–.10 43.61S 172.59E 7–1 3.3L ¶16160384
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=90.0.
WEL II 22 06 17 46.1–.12 43.58S 172.68E 4–1 3.5L ¶602336409
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0.
WEL II 22 06 25 38.7–.06 43.60S 172.62E 5–0 3.4L
NEIC II 22 06 25 36.9 43.65S 172.84E 5 4.0L **¶16118180**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL II 22 06 25 46.0–.14 43.58S 172.68E 6–1 3.0L ¶602734527
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=90.0.
WEL II 22 06 27 48.9–.17 43.60S 172.62E 6–1 2.8L ¶602734528
WEL Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=90.0.
ISC II 22 06 28 28.5–1.2 43.59S–.03 172.76E–.04 4–8 3.9b,3.6s 105 0-149
ISCJB II 22 06 28 26.9–.64 43.64S–.03 172.82E–.04 6–4 3.9b,3.7s **¶16066039**
IDC II 22 06 28 28.4–1.4 43.44S 172.67E 0 4.2,4.1
WEL II 22 06 28 29.5–.12 43.59S 172.65E 6–1 4.6L,4.1
NEIC II 22 06 28 31.0 43.59S 172.71E 5 4.7L,4.4W
BJI II 22 06 28 32.7 44.03S 172.10E 9 4.7s,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.2km az=143.6.
IDC Error ellipse: s-maj=46.2km s-min=14.3km az=161.0.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s17
Moment tensor: Scale 10^{15}Nm; M_{rr}0.20 $M_{\theta\theta}$2.19 $M_{\phi\phi}$-2.40 $M_{r\theta}$-0.91 $M_{\theta\phi}$-3.44 $M_{\phi r}$-1.43
Best double couple: NP1:ϕ_s342.00000°,δ75.00000°,λ-12.00000°. NP2:ϕ_s75.00000°,δ78.00000°,λ-165.00000°. Principal axes: T 4.0300,Plg2.0000°,Azm208.0000°
; N 0.7700,Plg71.0000°,Azm112.0000°; P -4.8100,Plg19.0000°,Azm298.0000°
M_o4.50000×10^{15}
ISC II 22 06 43 31.9–1.0 43.60S–.03 172.79E–.04 7–5 4.5b,3.6s 217 0-153
ISCJB II 22 06 43 29.7–.54 43.65S–.03 172.87E–.03 9–3 4.5b,3.7s **¶16057300**
BJI II 22 06 43 29.6 43.91S 172.50E 4 4.8,4.8s
IDC II 22 06 43 30.9–1.1 43.42S 172.72E 0 4.6,4.5b
NEIC II 22 06 43 31.8 43.62S 172.73E 12 4.8L,4.5b
WEL II 22 06 43 32.5–.15 43.59S 172.71E 7–0 4.8L,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.8km az=144.1.
IDC Error ellipse: s-maj=43.5km s-min=13.8km az=162.0.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s19
Moment tensor: Scale 10^{15}Nm; M_{rr}1.07 $M_{\theta\theta}$1.52 $M_{\phi\phi}$-2.58 $M_{r\theta}$0.98 $M_{\theta\phi}$-3.19 $M_{\phi r}$-1.64
Best double couple: NP1:ϕ_s167.00000°,δ78.00000°,λ29.00000°. NP2:ϕ_s71.00000°,δ62.00000°,λ166.00000°. Principal axes: T 4.1700,Plg29.0000°,Azm32.0000°
; N 0.3400,Plg59.0000°,Azm188.0000°; P -4.5000,Plg11.0000°,Azm296.0000°
M_o4.30000×10^{15}
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
WEL II 22 06 44 39.3–.25 43.56S 172.76E 5 3.7L ¶602336417
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=90.0.
WEL II 22 06 49 21.2–.09 43.57S 172.62E 7–0 3.5L ¶16160388
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0.
WEL II 22 06 54 45.0–.06 43.59S 172.58E 6–1 3.4L ¶602336425
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0.
WEL II 22 06 56 17.6–.10 43.60S 172.60E 4–1 3.3L ¶602336426
WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=90.0.
WEL II 22 07 32 34.3–.28 43.54S 172.74E 5 2.5L ¶602336453
WEL Event type ke. Error ellipse: s-maj=3.1km s-min=0.9km az=90.0.
WEL II 22 07 35 24.2–.17 43.58S 172.63E 5 3.0L ¶602336454
WEL Event type ke. Error ellipse: s-maj=3.3km s-min=1.3km az=90.0.
WEL II 22 07 42 21.1–.26 43.55S 172.74E 6–1 3.8L ¶602336456
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=90.0.
WEL II 22 07 47 22.6–.07 43.57S 172.66E 5–0 3.6L ¶602336457
WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0.
WEL II 22 08 04 36.0–.16 43.59S 172.63E 5 3.7L ¶602336465
WEL Event type ke. Error ellipse: s-maj=3.0km s-min=1.1km az=90.0.
WEL II 22 08 15 17.8–.16 43.55S 172.71E 5 3.5L ¶602336467
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.5km az=90.0.
WEL II 22 08 20 49.0–.08 43.62S 172.59E 6–1 3.2L ¶602734529
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=90.0.
ISC II 22 08 21 06.0–.86 43.57S–.03 172.75E–.04 9–4 4.5s,4.4b 154 0-154
ISCJB II 22 08 21 04.2–.48 43.62S–.03 172.80E–.03 12–3 4.6b,4.2s **¶16066040**
IDC II 22 08 21 04.4–.92 43.47S 172.64E 0 4.5,4.4b
BJI II 22 08 21 06.9 43.60S 172.60E 7 4.8b,4.8s
WEL II 22 08 21 06.8–.09 43.58S 172.62E 8–0 4.7L,4.8s
NEIC II 22 08 21 06.9 43.60S 172.56E 7 4.8L,4.4b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.9km az=139.3.
IDC Error ellipse: s-maj=38.3km s-min=12.6km az=164.0.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s19
Moment tensor: Scale 10^{15}Nm; M_{rr}0.66 $M_{\theta\theta}$2.11 $M_{\phi\phi}$-2.77 $M_{r\theta}$1.51 $M_{\theta\phi}$-1.77 $M_{\phi r}$0.13
Best double couple: NP1:ϕ_s60.00000°,δ78.00000°,λ154.00000°. NP2:ϕ_s156.00000°,δ64.00000°,λ14.00000°. Principal axes: T 3.4100,Plg27.0000°,Azm15.0000°
; N 0.0300,Plg61.0000°,Azm216.0000°; P -3.4400,Plg9.0000°,Azm110.0000°
M_o3.40000×10^{15}
WEL II 22 08 37 57.1–.12 43.58S 172.63E 5 2.9L ¶602734531
WEL Event type ke. Error ellipse: s-maj=2.6km s-min=0.8km az=90.0.
WEL II 22 08 38 19.9–.33 43.58S 172.63E 5 3.3L ¶602734530
WEL Event type ke. Error ellipse: s-maj=5.6km s-min=2.4km az=90.0.
WEL II 22 08 38 32.1–.09 43.59S 172.67E 5 4.0L
NEIC II 22 08 38 32.0 43.59S 172.71E 7 4.1L **¶16066041**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL II 22 08 58 51.7–.12 43.59S 172.69E 8–0 3.7L ¶602336483
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=90.0.
WEL II 22 09 16 07.1–.18 43.59S 172.62E 5–1 3.9L
NEIC II 22 09 16 06.5 43.61S 172.64E 5 4.0L **¶16066045**
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 22 09 18 38.6–.20 43.59S 172.62E 5 3.9L
NEIC II 22 09 18 38.0 43.60S 172.67E 5 4.0L **¶16066046**
WEL Event type fe. Error ellipse: s-maj=3.3km s-min=1.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL II 22 09 18 55.5–.14 43.59S 172.65E 5 3.8L ¶602734532
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0.
WEL II 22 09 40 40.3–.10 43.59S 172.60E 5 3.6L ¶602336500
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0.
WEL II 22 09 43 03.8–.12 43.59S 172.66E 7–0 3.5L ¶16160389
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=90.0.

WEL II 22 09 50 33.0–.21 43.59S 172.63E 5 3.6L
¶602336508

WEL Event type ke. Error ellipse: s-maj=3.4km s-min=1.3km az=90.0.
WEL II 22 10 05 26.1–.10 43.58S 172.52E 8–1 4.0L
NEIC II 22 10 05 26.1 43.59S 172.51E 9 4.0L **¶16066049**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt southwest of Christchurch. After WEL.
WEL II 22 10 36 35.6–.11 43.57S 172.67E 6–0 3.5L
¶602336531

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 10 52 26.1–.25 43.57S 172.63E 5 3.7L
¶16160390

WEL Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=90.0.
ISC II 22 11 02 15.8–.99 43.59S–.03 172.83E–.03 3–5 4.3b,4.0s 161 0-149
ISCJB II 22 11 02 13.0–.67 43.66S–.03 172.94E–.03 3–4 4.5b,3.9s **¶16136355**
IDC II 22 11 02 14.5–1.6 43.46S 172.75E 0 4.3,4.1b
BJI II 22 11 02 15.5 43.38S 172.91E 5 4.9s,4.8b
NEIC II 22 11 02 16.3 43.57S 172.70E 5 4.5b,4.4L
WEL II 22 11 02 16.5–.18 43.60S 172.73E 11–0 4.4L,4.4L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.5km az=142.9.
IDC Error ellipse: s-maj=48.3km s-min=16.2km az=161.0.
NEIC Event type se. After WEL. Moment Tensor Solution. s28 Moment tensor: Scale 10^{15}Nm; M_{rr}0.58 $M_{\theta\theta}$0.57 $M_{\phi\phi}$-1.14 $M_{r\theta}$0.56 $M_{\theta\phi}$-1.00 $M_{\phi r}$-0.17 Best double couple: NP1:ϕ_s165.00000°,δ65.00000°,λ24.00000°. NP2:ϕ_s64.00000°,δ68.00000°,λ153.00000°. Principal axes: T 1.4200,Plg34.0000°,Azm24.0000°; N 0.1800,Plg55.0000°,Azm209.0000°; P -1.6000,Plg2.0000°,Azm115.0000° M_o1.50000×10^{15}
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 11 04 22.6–.23 43.55S 172.69E 7–1 3.5L
¶602336541

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=90.0.
WEL II 22 11 05 02.0–.12 43.62S 172.60E 6–1 3.6L
¶602336544

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=0.7km az=90.0.
WEL II 22 11 15 00.7–.18 43.60S 172.54E 5 3.4L
¶602734533

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=90.0.
WEL II 22 11 15 59.2–.13 43.59S 172.62E 5 3.5L
¶16160391

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=90.0.
WEL II 22 11 18 13.3–.20 43.59S 172.62E 5–1 4.2L
NEIC II 22 11 18 11.4 43.66S 172.75E 5 4.2L **¶16160392**
WEL Event type fe. Error ellipse: s-maj=2.3km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 22 11 19 06.3–.16 43.59S 172.61E 5–1 3.3L
¶602734535

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.0km az=90.0.
WEL II 22 11 19 48.3–.24 43.57S 172.65E 5 3.1L
¶602734534

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=1.4km az=90.0.
WEL II 22 11 32 49.5–.18 43.58S 172.65E 6–1 3.5L
¶602336551

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=90.0.
WEL II 22 11 43 47.5–.14 43.59S 172.70E 6–0 3.5L
¶602336557

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 11 49 21.6–.12 43.59S 172.64E 4–0 4.4L
NEIC II 22 11 49 21.0 43.61S 172.69E 5 4.3L **¶16160394**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL II 22 11 57 45.0–.10 43.58S 172.67E 4–0 3.9L
NEIC II 22 11 57 45.1 43.58S 172.64E 4 3.9L **¶16160395**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 22 12 20 27.9–.13 43.57S 172.67E 7–0 2.6L
¶602734536

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0.
WEL II 22 12 21 23.6–.13 43.60S 172.61E 5–1 3.9L
NEIC II 22 12 21 23.5 43.59S 172.70E 12 3.9L **¶16160396**
WEL Event type fe. Error ellipse: s-maj=2.6km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 22 13 26 03.6–.19 43.59S 172.69E 9–0 3.8L
NEIC II 22 13 26 02.5 43.63S 172.76E 7 3.9L **¶16160397**
WEL Event type fe. Error ellipse: s-maj=2.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 22 13 26 35.7–.21 43.59S 172.64E 5 3.1L
¶602734537

WEL Event type ke. Error ellipse: s-maj=3.9km s-min=1.4km az=90.0.
WEL II 22 13 31 57.0–.12 43.59S 172.70E 7–0 3.8L
¶602336596

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0.
WEL II 22 14 03 47.1–.11 43.60S 172.65E 8–0 2.8L
¶602734538

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.5km az=90.0.
ISC II 22 14 04 37.0–1.2 43.63S–.04 172.84E–.05 11–7 3.9b 124 0-149
ISCJB II 22 14 04 35.7–.64 43.67S–.03 172.91E–.04 11–4 3.8b **¶16136357**
IDC II 22 14 04 38.6–1.8 43.24S 172.51E 0 4.1,4.0
NEIC II 22 14 04 39.0 43.58S 172.72E 5 4.7L,4.2W
WEL II 22 14 04 39.5–.06 43.58S 172.68E 5 4.6L,4.2W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.2km az=139.4.
IDC Error ellipse: s-maj=44.2km s-min=14.0km az=146.0.
NEIC Event type fe. Felt in the Christchurch area. After WEL. Moment Tensor Solution. s31 Moment tensor: Scale 10^{15}Nm; M_{rr}0.13 $M_{\theta\theta}$0.12 $M_{\phi\phi}$-0.25 $M_{r\theta}$1.06 $M_{\theta\phi}$-2.58 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s180.00000°,δ69.00000°,λ10.00000°. NP2:ϕ_s86.00000°,δ80.00000°,λ159.00000°. Principal axes: T 2.9700,Plg22.0000°,Azm42.0000°; N -0.2700,Plg67.0000°,Azm243.0000°; P -2.7000,Plg8.0000°,Azm135.0000° M_o2.80000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 22 14 29 36.4–.07 43.59S 172.59E 5 2.9L
¶602734539

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0.
ISC II 22 14 30 13.4–.98 43.62S–.04 172.80E–.04 9–6 4.1b,3.6s 180 0-153
ISCJB II 22 14 30 12.1–.58 43.65S–.03 172.83E–.04 10–4 4.4b,3.6s **¶16136358**
NEIC II 22 14 30 13.8 43.63S 172.73E 9 4.1W,3.6s
IDC II 22 14 30 14.2–1.4 43.39S 172.62E 0 4.3,4.2
WEL II 22 14 30 15.1–.13 43.60S 172.67E 3–1 4.6L,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.1km az=136.8.
NEIC Event type se. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.28 $M_{\theta\theta}$1.79 $M_{\phi\phi}$-1.51 $M_{r\theta}$-0.11 $M_{\theta\phi}$-1.03 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s330.00000°,δ79.00000°,λ-12.00000°. NP2:ϕ_s62.00000°,δ78.00000°,λ-169.00000°. Principal axes: T 2.0900,Plg1.0000°,Azm16.0000°; N -0.1400,Plg74.0000°,Azm108.0000°; P -1.9400,Plg16.0000°,Azm286.0000° M_o2.00000×10^{15}
IDC Error ellipse: s-maj=46.0km s-min=13.9km az=157.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 22 14 35 08.3–.14 43.59S 172.68E 8–0 4.0L
¶16160399

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL II 22 14 36 46.4–.13 43.59S 172.63E 5 3.0L
¶602734540

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.1km az=90.0.
WEL II 22 14 37 43.8–.13 43.55S 172.69E 8–0 3.8L
¶16160400

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=90.0.
WEL II 22 14 41 24.1–.15 43.56S 172.73E 8–0 3.7L
¶16160401

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0.
WEL II 22 15 00 37.1–.09 43.59S 172.64E 4–0 3.6L
¶602734541

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0.
WEL II 22 15 01 06.5–.09 43.58S 172.69E 4–0 2.8L
¶16160402

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0.
WEL II 22 15 06 49.7–.18 43.59S 172.62E 5 2.8L
¶602734542

WEL Event type ke. Error ellipse: s-maj=3.7km s-min=1.5km az=90.0.
WEL II 22 15 06 59.3–.05 43.57S 172.61E 7–0 3.7L
¶16160403

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0.
WEL II 22 15 18 22.7–.19 43.55S 172.70E 9–0 3.7L
¶16160404

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=90.0.
WEL II 22 15 44 48.3–.08 43.58S 172.63E 9–0 4.0L
NEIC II 22 15 44 48.0 43.58S 172.66E 10 4.0L **¶16160405**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
ISC II 22 17 00 19.8–.82 43.60S–.03 172.73E–.03 11–5 4.6b,3.4s 195 0-153
ISCJB II 22 17 00 18.0–.53 43.65S–.03 172.81E–.04 8–4 4.6b,3.4s **¶16155394**
IDC II 22 17 00 19.4–1.4 43.38S 172.68E 0 4.4,4.2b
WEL II 22 17 00 20.9–.13 43.59S 172.65E 6–1 4.6L,4.2b
NEIC II 22 17 00 20.4 43.60S 172.71E 7 4.7b,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.8km az=138.7.
IDC Error ellipse: s-maj=45.0km s-min=14.6km az=157.0.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 7.
NEIC Event type fe. Felt at Christchurch. After WEL. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}-1.09 $M_{\theta\theta}$2.63 $M_{\phi\phi}$-1.54 $M_{r\theta}$0.10 $M_{\theta\phi}$-1.43 $M_{\phi r}$-0.93 Best double couple: NP1:ϕ_s327.00000°,δ72.00000°,λ-27.00000°. NP2:ϕ_s66.00000°,δ64.00000°,λ-160.00000°. Principal axes: T 3.1100,Plg5.0000°,Azm18.0000°; N -0.5900,Plg58.0000°,Azm116.0000°; P -2.5100,Plg32.0000°,Azm285.0000° M_o2.90000×10^{15}
WEL II 22 17 00 36.9–.09 43.59S 172.64E 5 4.0L
¶602734544

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=90.0.
WEL II 22 17 01 02.2–.08 43.58S 172.65E 5 4.1L
¶602734543

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0.
WEL II 22 18 44 48.8–.13 43.57S 172.64E 6–0 3.6L
¶16160407

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=90.0.
WEL II 22 19 29 25.6–.09 43.58S 172.62E 5 3.4L
¶602734545

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=90.0.
ISC II 22 19 30 20.2–.90 43.57S–.03 172.69E–.04 7–5 4.1b,3.4s 57 0-149
ISCJB II 22 19 30 19.1–.55 43.63S–.03 172.72E–.05 10–3 4.3b,3.4s **¶16160408**
NEIC II 22 19 30 20.5 43.60S 172.68E 5 4.7b,4.2L
WEL II 22 19 30 20.9–.16 43.60S 172.63E 5–1 4.6L,4.2L
IDC II 22 19 30 21.4–1.6 43.25S 172.44E 0 4.2,4.1b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.0km az=39.6.
NEIC Event type fe. Felt at Wellington. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
IDC Error ellipse: s-maj=44.8km s-min=13.8km az=148.0.
WEL II 22 19 43 06.7–.15 43.59S 172.60E 8–1 3.7L
¶602734546

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 22 19 44 06.3–.19 43.59S 172.69E 7–0 3.3L
¶16160409

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=90.0.
WEL II 22 20 52 48.7–.12 43.60S 172.63E 5 3.9L
¶16160410

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 21 10 15.1–.11 43.56S 172.74E 8–0 3.6L
¶16160411

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 22 22 15 37.6–.13 43.59S 172.63E 5–1 3.7L
¶602734547

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=90.0.
WEL II 22 22 16 10.8–.22 43.55S 172.70E 5 2.9L
¶602734548

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0.
WEL II 22 22 16 41.0–.13 43.56S 172.64E 8–0 2.8L
¶16160412

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0.
WEL II 22 23 51 24.2–.28 43.56S 172.71E 12–2 3.2L
¶600709919

WEL Event type ke. Error ellipse: s-maj=3.8km s-min=1.2km az=90.0.
WEL II 23 00 59 17.2–.08 43.59S 172.65E 4–0 4.2L
NEIC II 23 00 59 17.0 43.58S 172.66E 4 4.2L **¶16160416**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 23 01 23 51.6–.07 43.59S 172.65E 6–0 3.5L
¶16160417

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 23 01 31 37.4–.10 43.59S 172.72E 8–0 3.9L
NEIC II 23 01 31 36.7 43.57S 172.79E 5 3.9L **¶16160418**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 23 01 32 20.9–.15 43.56S 172.64E 8–0 3.1L
¶602734549

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=90.0.
WEL II 23 02 21 25.3–.06 43.61S 172.60E 5 3.1L
¶602734550

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0.
WEL II 23 02 22 10.8–.10 43.53S 172.71E 9–0 3.9L
NEIC II 23 02 22 10.6 43.54S 172.72E 9 3.9L **¶16160419**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 23 02 43 20.5–.08 43.59S 172.64E 8–0 4.0L
NEIC II 23 02 43 20.4 43.60S 172.65E 5 4.0L **¶16160420**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 23 03 19 16.8–.11 43.59S 172.64E 6–0 3.5L
¶602336839

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 23 04 44 14.1–.20 43.58S 172.66E 4–0 3.5L
¶602336874

WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 23 05 39 42.4–.10 43.52S 172.70E 11–0 4.1L
¶16160421

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 23 05 54 56.4–.12 43.58S 172.66E 7–0 3.2L
¶602336888

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 23 08 54 37.6–.10 43.60S 172.64E 5–0 3.9L
¶16160422

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 23 09 13 44.0–.17 43.58S 172.65E 7–0 3.5L
¶602336937

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 23 09 45 57.5–.09 43.54S 172.70E 6–0 3.6L
¶16160423

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 23 09 54 56.9–.14 43.62S 172.65E 9–0 3.5L
¶602336947

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=90.0.
WEL II 23 11 12 56.1–.12 43.55S 172.71E 8–0 4.1L
NEIC II 23 11 12 55.6 43.57S 172.75E 8 4.1L **¶16160424**
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL II 23 13 41 01.9–.21 43.55S 172.76E 7–1 3.6L
¶16160425

WEL Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=90.0. Felt in the Canterbury region.
WEL II 23 13 46 17.3–.07 43.59S 172.51E 5 3.5L
¶602336981

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 23 14 46 06.4–.21 43.57S 172.71E 9–0 3.5L
¶602336991

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=90.0.
WEL II 23 14 49 05.5–.09 43.59S 172.53E 9–1 3.6L
¶16160426

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
WEL II 23 16 15 31.0–.18 43.58S 172.76E 7–0 3.6L
¶16160427

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0.
WEL II 23 18 23 02.9–.10 43.59S 172.63E 5 3.5L
¶602337017

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=90.0.
WEL II 23 20 20 12.6–.18 43.55S 172.75E 6–1 3.6L
¶16160428

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 23 20 44 31.9–.96 43.61S–.04 172.72E–.04 12–6 3.6s 92 0-149
ISCJB II 23 20 44 31.6–.49 43.63S–.04 172.72E–.05 14–3 3.6s,3.5b **¶16160429**
IDC II 23 20 44 32.9–1.9 43.36S 172.57E 0 3.9,3.7
NEIC II 23 20 44 32.9 43.59S 172.65E 6 4.4L,3.7
WEL II 23 20 44 33.0–.12 43.60S 172.63E 6–0 4.4L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=3.6km az=135.9.
IDC Error ellipse: s-maj=48.5km s-min=15.2km az=154.0.
NEIC Event type fe. Felt strongly in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL II 23 20 45 00.2–.09 43.58S 172.68E 5 3.8L
¶602734551

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0.
ISC II 23 20 46 46.0–.95 43.58S–.04 172.68E–.05 8–5 34 0-149
IDC II 23 20 46 44.8–1.5 43.65S 172.74E 0 3.9,3.7 **¶17192758**
ISCJB II 23 20 46 45.2–.63 43.63S–.04 172.74E–.06 11–3 3.5b,3.7
WEL II 23 20 46 47.1–.11 43.60S 172.61E 4–1 4.2L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=63.4km s-min=16.4km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.9km az=32.8.
WEL Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=90.0.
WEL II 23 20 52 19.9–.09 43.60S 172.65E 11–0 4.0L
NEIC II 23 20 52 18.9 43.64S 172.74E 10 4.0L **¶16160430**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 23 22 58 23.8–.26 43.59S 172.75E 11–0 3.5L
¶602337077

WEL Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 23 23 22 52.8–.15 43.57S 172.71E 9–0 3.7L
¶16160431

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 00 00 25.8–.47 43.66S 172.74E 8–1 3.5L
¶602337112

WEL Event type fe. Error ellipse: s-maj=5.4km s-min=1.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 00 02 10.6–.17 43.57S 172.69E 7–0 2.7L
¶602910804

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=90.0.
WEL II 24 00 02 15.9–.28 43.56S 172.71E 7–1 3.3L
¶16160432

WEL Event type fe. Error ellipse: s-maj=5.4km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 01 18 52.2–.12 43.61S 172.63E 4–1 3.6L
¶16160433

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 02 35 55.0–.07 43.59S 172.60E 2 3.7L
¶16160437

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 02 54 30.4–.15 43.58S 172.65E 8–0 3.5L
¶602337136

WEL Event type fe. Error ellipse: s-maj=2.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 05 51 06.2–.21 43.56S 172.63E 6–1 3.4L
¶602734552

WEL Event type ke. Error ellipse: s-maj=3.1km s-min=0.8km az=90.0.
WEL II 24 05 51 33.4–.11 43.54S 172.70E 6–0 4.1L
NEIC II 24 05 51 32.0 43.58S 172.62E 10 4.0L **¶16160439**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 24 05 56 04.9–.29 43.57S 172.73E 7–1 3.5L
¶602337150

WEL Event type fe. Error ellipse: s-maj=3.0km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 07 07 45.3–.11 43.58S 172.65E 7–0 3.6L
¶16160440

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 07 56 26.3–.12 43.57S 172.63E 8–0 3.5L
¶602337161

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 24 08 25 17.9–.13 43.58S 172.66E 6–0 3.7L
¶16160441

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 10 48 00.4–.27 43.54S 172.74E 6–1 3.7L
¶16160442

WEL Event type fe. Error ellipse: s-maj=3.1km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 11 05 18.1–.12 43.62S 172.50E 5 2.7L
¶602337180

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=0.0.
WEL II 24 11 05 34.3–.26 43.53S 172.88E 5 2.9L
¶602337183

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0.
WEL II 24 11 35 50.8–.15 43.60S 172.60E 7–1 3.8L
¶16160443

WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 16 26 59.2–.14 43.58S 172.68E 10–0 3.2L
¶602734553

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0.
WEL II 24 16 27 35.6–.20 43.58S 172.64E 4–1 3.9L
NEIC II 24 16 27 35.1 43.57S 172.69E 3 3.8L **¶16160444**
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 24 20 34 58.5–.18 43.58S 172.71E 7–0 3.8L
¶602734554

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 24 20 35 45.7–.15 43.60S 172.65E 7–0 2.8L
¶16160445

WEL Event type ke. Error ellipse: s-maj=4.0km s-min=1.0km az=90.0.
WEL II 25 02 07 10.2–.25 43.57S 172.81E 12 3.6L
¶16160454

WEL Event type fe. Error ellipse: s-maj=2.9km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 25 04 40 10.0–1.1 43.55S–.04 172.72E–.04 9–7 4.5b,3.5s 106 0-153
ISCJB II 25 04 40 09.1–.67 43.63S–.04 172.76E–.06 14–4 4.5b,3.5s **¶16160455**
IDC II 25 04 40 10.5–1.4 43.33S 172.54E 0 4.4,4.1
NEIC II 25 04 40 10.8 43.58S 172.66E 6 4.9b,4.7L
WEL II 25 04 40 11.1–.09 43.58S 172.63E 7–0 4.7L,4.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=3.6km az=136.1.
IDC Error ellipse: s-maj=46.0km s-min=13.7km az=155.0.
NEIC Event type fe. Felt widely in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL II 25 05 40 01.6–.09 43.58S 172.61E 5 2.9L
¶602337319

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=90.0.
WEL II 25 05 42 52.9–.40 43.57S 172.70E 8–1 3.1L
¶602337320

WEL Event type ke. Error ellipse: s-maj=5.5km s-min=2.1km az=90.0.
WEL II 25 06 14 49.4–.10 43.62S 172.67E 10–0 4.3L
NEIC II 25 06 14 49.2 43.61S 172.68E 9 4.3L **¶16160456**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL II 25 14 59 17.3–.23 43.60S 172.66E 7–0 3.0L
¶602337354

WEL Event type ke. Error ellipse: s-maj=3.3km s-min=0.9km az=90.0.
WEL II 25 14 59 58.1–.35 43.56S 172.68E 7–1 2.6L
¶602337357

WEL Event type ke. Error ellipse: s-maj=5.2km s-min=2.0km az=90.0.
WEL II 25 16 49 37.3–.09 43.59S 172.54E 9–0 3.8L
¶16160457

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 25 17 52 28.4–.11 43.58S 172.60E 9–0 4.1L
NEIC II 25 17 52 27.9 43.56S 172.67E 9 4.1L **¶16160458**
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt strongly at Christchurch. After WEL.
WEL II 25 20 23 34.0–.09 43.58S 172.65E 5–0 3.6L
¶602734555

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 25 20 24 20.5–.10 43.58S 172.62E 4–0 2.8L
¶16160460

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=0.7km az=90.0.
WEL II 26 01 07 15.2–.13 43.60S 172.64E 4–0 3.5L
¶16160461

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 26 06 36 19.3–.27 43.50S 172.74E 7–1 3.6L
¶16160464

WEL Event type fe. Error ellipse: s-maj=3.0km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 26 10 51 03.7–.07 43.57S 172.43E 11–0 3.8L
NEIC II 26 10 51 03.6 43.56S 172.43E 12 3.8L **¶16160466**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL II 26 15 54 21.8–.14 43.58S 172.75E 11–0 3.5L
¶602337460

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 27 00 03 50.2–.16 43.50S 172.71E 8–1 3.5L
¶16160478

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 27 00 37 52.9–.05 43.57S 172.72E 8–0 2.6L
¶602337519

WEL Event type ke. Error ellipse: s-maj=0.4km s-min=0.2km az=90.0.
WEL II 27 00 38 17.7–.07 43.59S 172.26E 5 2.6L
¶602337522

WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0.
WEL II 27 03 21 20.7–.11 43.59S 172.69E 5–1 3.7L
¶16160481

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL II 27 13 18 58.6–.12 43.57S 172.63E 6–1 3.0L
¶602337574

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 27 18 55 29.4–1.1 43.55S–.04 172.82E–.05 9–6 3.6b 50 0-149
ISCJB II 27 18 55 28.6–.69 43.62S–.03 172.83E–.06 13–3 3.5b **¶16168293**
IDC II 27 18 55 29.6–3.2 43.33S 172.64E 0 3.6,3.5
WEL II 27 18 55 30.7–.10 43.56S 172.72E 8–0 4.1L,3.5
NEIC II 27 18 55 30.8 43.56S 172.71E 5 4.1L,4.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=3.9km az=33.0.
IDC Error ellipse: s-maj=82.4km s-min=16.5km az=149.0.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
ISC II 27 21 35 42.0–1.1 43.61S–.03 172.82E–.04 10–6 123 0-153
ISCJB II 27 21 35 40.5–.59 43.67S–.03 172.89E–.04 12–4 3.8b **¶16168295**

IDC II 27 21 35 41.4–1.2 43.52S 172.74E 0 4.1,4.0L
WEL II 27 21 35 43.4–.10 43.59S 172.73E 9–0 4.3L,4.0L
NEIC II 27 21 35 43.5 43.60S 172.73E 9 4.3L,4.0L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.2km az=136.1.
IDC Error ellipse: s-maj=46.9km s-min=14.3km az=166.0.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbruy region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 27 21 43 56.9–.12 43.58S 172.72E 8–0 3.8L
NEIC II 27 21 43 56.0 43.61S 172.79E 12 3.8L **¶16168296**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Whakatane. After WEL.
WEL II 28 02 37 40.5–.03 43.58S 172.70E 5 3.7L
¶16168300
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 28 04 34 40.7–.06 43.59S 172.72E 9–0 3.6L
¶16168302
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 28 08 11 37.4–.07 43.55S 172.72E 6–0 3.6L
¶16168304
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 28 09 15 12.1–.07 43.59S 172.69E 6–0 3.5L
¶602337692
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 28 09 44 36.5–.05 43.59S 172.68E 8–0 3.9L
NEIC II 28 09 44 36.2 43.58S 172.69E 8 3.9L **¶16168306**
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL II 28 17 37 37.3–.07 43.54S 172.70E 7–0 3.6L
¶602734557
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 28 17 38 36.5–.09 43.57S 172.71E 5–0 2.9L
¶16168315
WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0.
WEL II 28 18 40 38.8–.07 43.57S 172.73E 7–0 3.7L
¶16168317
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC II 28 20 10 11.9–1.2 43.58S–.05 172.85E–.05 8–8 3.4s 90 0-149
ISCJB II 28 20 10 10.7–.68 43.64S–.03 172.89E–.04 12–5 3.8b,3.3s **¶16168319**
IDC II 28 20 10 10.6–1.4 43.27S 173.09E 0 4.2,3.9b
NEIC II 28 20 10 12.1 43.61S 172.86E 2 4.4L,3.9b
WEL II 28 20 10 13.6–.07 43.57S 172.73E 6–0 4.4L,3.9b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.8km az=136.7.
IDC Error ellipse: s-maj=105.6km s-min=37.9km az=22.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL II 28 20 28 40.7–.07 43.56S 172.71E 6–0 3.5L
¶16168321
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL II 28 23 28 49.3–.19 41.16S 173.55E 82–2 3.5L
¶16168324
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=0.0.
WEL III 01 04 17 57.0–.08 43.55S 172.72E 8–0 3.5L
¶600710188
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 01 09 12 12.5–.08 43.57S 172.65E 5–0 3.6L
¶16168327
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC III 01 09 42 07.6–1.0 43.66S–.04 172.78E–.04 10–5 4.2b 103 0-149
ISCJB III 01 09 42 05.9–.65 43.69S–.03 172.84E–.04 11–4 4.1b **¶16168328**
IDC III 01 09 42 07.3–1.5 43.54S 172.67E 0 4.6,4.3b
WEL III 01 09 42 09.0–.06 43.61S 172.66E 9–0 4.6L,4.3b
NEIC III 01 09 42 09.1 43.61S 172.65E 8 4.6L,4.1W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.1km az=136.9.
IDC Error ellipse: s-maj=55.3km s-min=17.1km az=171.0.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s10 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.45 $M_{\theta\theta}$1.50 $M_{\phi\phi}$-1.05 $M_{r\theta}$-0.12 $M_{\theta\phi}$-1.36 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s72.00000°,δ66.00000°,λ-164.00000°. NP2:ϕ_s335.00000°,δ75.00000°,λ-25.00000°. Principal axes: T 2.1200,Plg6.0000°,Azm25.0000°; N 0.0000,Plg61.0000°,Azm126.0000° ; P -2.1100,Plg28.0000°,Azm292.0000° M_o2.10000×10^{15}
WEL III 02 12 48 49.5–.06 43.59S 172.50E 5 3.5L
¶600710335
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 02 13 55 05.1–.10 43.59S 172.73E 10–0 4.0L
NEIC III 02 13 55 05.7 43.57S 172.70E 5 3.9L **¶16177109**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL III 02 16 28 36.9–.09 43.52S 172.72E 10–0 3.6L
¶16177110
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 03 01 29 38.5–.23 44.97S 167.52E 97–2 3.7L
¶16177114
WEL Event type ke. Error ellipse: s-maj=2.1km s-min=1.3km az=90.0.
WEL III 03 02 16 52.0–.07 43.58S 172.72E 6–0 3.5L
¶16177115
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 03 05 53 08.6–.06 43.59S 172.67E 4–0 3.9L
NEIC III 03 05 53 08.2 43.58S 172.68E 5 3.9L **¶16177117**
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL III 03 07 17 48.6–.06 43.61S 171.85E 2 2.7L
¶600710435
WEL Event type ke. Error ellipse: s-maj=0.6km s-min=0.5km az=0.0.
WEL III 03 14 24 20.5–.07 43.59S 172.65E 4–0 3.6L
¶16293841
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 5.
WEL III 03 17 49 57.8–.05 43.61S 172.65E 8–0 3.6L
¶16293842
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 03 21 35 25.0–.06 43.60S 172.54E 6–0 3.6L
¶16194021
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 04 13 30 50.5–.15 45.05S 167.48E 98–1 4.1L
NEIC III 04 13 30 50.5 45.07S 167.46E 97 4.1L **¶16196146**
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0.
NEIC Event type se. After WEL.

WEL III 04 17 14 38.9–.07 43.60S 172.64E 7–0 3.5L
¶16268975
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 04 21 32 30.9–.30 43.60S 171.83E 5 3.7L
¶16196740
WEL Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
WEL III 04 21 49 06.2–.08 43.58S 172.62E 4–0 4.1L
NEIC III 04 21 49 02.1 43.63S 172.85E 33 4.2L **¶16403008**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL III 05 01 29 42.8–.07 43.60S 172.49E 5 3.5L
¶16196148
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 05 03 39 31.6–.07 43.58S 172.72E 8–0 3.9L
NEIC III 05 03 39 31.5 43.59S 172.72E 8 3.9L **¶16196149**
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
ISC III 05 06 34 02.0–1.0 43.52S–.03 172.76E–.03 5–6 4.3b,4.0s 109 0-154
ISCJB III 05 06 34 00.2–.57 43.62S–.03 172.85E–.04 10–3 4.5b,4.0s **¶16195232**
BJI III 05 06 34 00.2 43.86S 172.35E 3 5.5b,5.1b
IDC III 05 06 34 00.8–.94 43.52S 172.72E 0 4.4,4.3b
WEL III 05 06 34 02.8–.07 43.55S 172.72E 10–0 5.0L,4.3b
NEIC III 05 06 34 02.5 43.57S 172.73E 11 4.8L,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=42.7.
IDC Error ellipse: s-maj=47.5km s-min=13.5km az=170.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from Hawke''s Bay to Otago, maximum reported intensity MM 7.
NEIC Event type fe. Felt [IV] at Christchurch. Widely felt in Canterbury. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}1.60 $M_{\theta\theta}$1.46 $M_{\phi\phi}$-3.06 $M_{r\theta}$2.50 $M_{\theta\phi}$-8.20 $M_{\phi r}$-2.56 Best double couple: NP1:ϕ_s80.00000°,δ71.00000°,λ164.00000°. NP2:ϕ_s175.00000° ,δ75.00000°,λ20.00000°. Principal axes: T 9.3300,Plg25.0000°,Azm38.0000° ; N 0.0000,Plg65.0000°,Azm210.0000°; P -9.3300,Plg3.0000°,Azm307.0000° M_o9.30000×10^{15}
WEL III 05 07 54 45.1–.10 43.54S 172.76E 7–0 3.8L
NEIC III 05 07 54 45.0 43.54S 172.76E 8 3.8L **¶16196150**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL III 05 09 45 39.5–.07 43.57S 172.73E 8–0 3.6L
¶16196153
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 05 10 00 37.2–.07 43.55S 172.72E 9–0 3.7L
¶16196155
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
WEL III 05 20 00 16.6–.06 43.54S 172.71E 8–0 3.5L
¶16196693
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
ISC III 06 03 43 31.1–1.1 42.41S–.03 173.93E–.03 9–6 4.8b,3.9s 291 0-165
IDC III 06 03 43 29.9–.75 42.25S 173.92E 0 5.1L,4.7 **¶16196703**
BJI III 06 03 43 30.3 42.73S 173.46E 8 5.5b,4.9b
ISCJB III 06 03 43 32.1–.45 42.43S–.03 173.94E–.04 28–3 4.8b,4.0s
NEIC III 06 03 43 32.8 42.36S 173.90E 12 4.9L,4.8W
WEL III 06 03 43 33.7–.14 42.34S 173.86E 20–1 5.1L,4.8W
ISC Event type fe.
IDC Error ellipse: s-maj=31.6km s-min=22.8km az=11.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.6km az=136.3.
NEIC Event type fe. Felt widely along the east coast of the South Island. After WEL. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}0.35 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$0.16 $M_{r\theta}$0.28 $M_{\theta\phi}$-1.44 $M_{\phi r}$-0.67 Best double couple: NP1:ϕ_s93.00000°,δ66.00000°,λ164.00000°. NP2: ϕ_s190.00000°,δ75.00000°,λ25.00000°. Principal axes: T 1.6800,Plg28.0000°,Azm53.0000° ; N 0.0000,Plg61.0000°,Azm219.0000°; P -1.6800,Plg6.0000°,Azm320.0000° M_o1.70000×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt between Nelson, Canterbury and Wairarapa, maximum reported intensity MM. 6.
ISC III 06 10 02 16.6–.78 41.59S–.03 174.00E–.02 16–5 64 0-151
IDC III 06 10 02 13.9–2.5 41.32S 174.05E 0 3.6,3.5 **¶16196714**
ISCJB III 06 10 02 16.8–.39 41.57S–.03 173.98E–.03 15–3 3.2b,3.5
WEL III 06 10 02 17.1–.09 41.57S 174.02E 12 4.1L,3.5
NEIC III 06 10 02 17.1 41.57S 174.02E 12 4.1L,3.5
ISC Event type fe.
IDC Error ellipse: s-maj=58.6km s-min=43.5km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=152.6.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.8km az=90.0. Felt from Manawatu to Canterbury, and from Nelson to Wairarapa, maximum. reported intensity MM 5.
NEIC Event type fe. Felt in the northern part of the South Island and in the southern part of the North Island. After WEL.
WEL III 07 10 26 45.8–.06 43.56S 172.75E 10–0 4.3L
NEIC III 07 10 26 42.0 43.60S 172.97E 33 4.3L **¶16202804**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 6.
NEIC Event type fe. Felt widely in Canterbury. After WEL.
WEL III 07 14 01 55.7–.06 43.59S 172.64E 4–0 3.6L
¶16268966
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 07 21 09 34.8–.05 43.65S 172.44E 10–0 3.7L
¶16268968
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 08 01 47 34.2–.06 43.62S 172.69E 11–0 3.7L
¶16268969
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 08 09 03 03.6–.07 43.59S 172.63E 7–0 4.3L
NEIC III 08 09 03 03.4 43.58S 172.63E 9 4.3L **¶16268972**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL III 08 09 44 12.2–.07 43.49S 172.17E 10–0 3.5L
¶16268973
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 08 11 56 40.2–.05 43.61S 172.64E 9–0 3.7L
¶16294215
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 09 00 18 55.4–.06 43.57S 172.64E 5–0 4.1L
NEIC III 09 00 18 55.2 43.58S 172.66E 8 4.1L **¶16294221**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL III 09 04 44 43.5–.09 43.51S 172.69E 9–0 2.8L
¶600711027
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL III 09 08 35 59.4–.06 43.55S 172.71E 8–0 3.7L
¶603310070
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 09 08 36 26.1–.09 43.55S 172.72E 7–0 3.2L
¶16294223
WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0.

WEL III 09 12 48 49.5–.05 43.57S 172.63E 8–0 3.6L
¶16298767

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 09 13 48 37.6–.07 43.58S 172.63E 8–0 4.0L

NEIC III 09 13 48 37.4 43.58S 172.65E 10 4.0L **¶16298769**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

WEL III 09 13 50 37.0–.20 42.37S 173.92E 19–1 3.4L
¶600711043

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=90.0.

WEL III 10 00 05 32.1–.05 43.56S 172.68E 5 3.7L
¶16298791

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

ISC III 10 07 07 09.4–.96 43.56S–.03 172.85E–.03 9–6 4.2b 209 0-149

ISCJB III 10 07 07 07.2–.51 43.64S–.02 172.93E–.03 6–3 4.6s,4.4b **¶16298799**

IDC III 10 07 07 09.2–1.6 43.39S 172.66E 0 4.2,3.9b

NEIC III 10 07 07 09.0 43.55S 172.74E 10 4.7b,4.5L

WEL III 10 07 07 11.1–.06 43.54S 172.71E 8–0 4.5L,4.5L

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.3km az=140.8.

IDC Error ellipse: s-maj=50.0km s-min=17.5km az=162.0.

NEIC Event type fe. Felt [VI] in the Christchurch area. Felt widely in Canterbury. After WEL. Moment Tensor Solution. s12 Moment tensor: Scale 10^{15}Nm; M_{rr}0.15 $M_{\theta\theta}$-0.42 $M_{\phi\phi}$0.28 $M_{r\theta}$0.39 $M_{\theta\phi}$-2.41 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s185.00000°,δ80.00000°,λ10.00000°. NP2:ϕ_s93.00000°,δ80.00000°,λ170.00000°. Principal axes: T 2.5100,Plg14.0000° ,Azm49.0000°; N 0.0000,Plg76.0000°,Azm230.0000°; P -2.5100,Plg0.0000°,Azm139.0000° M_o2.50000×10^{15}

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt from West Coast to Otago, maximum reported intensity MM 6.

WEL III 10 15 00 39.8–.07 43.58S 172.72E 4–0 4.0L

NEIC III 10 15 00 38.9 43.59S 172.76E 10 4.1L **¶16304050**

WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.2km az=90.0. Felt from Canterbury to West Coast, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

WEL III 10 17 11 23.7–.10 43.53S 172.81E 7–0 3.8L

NEIC III 10 17 11 23.1 43.53S 172.84E 10 3.8L **¶16304052**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

NEIC Event type fe. Felt at Christchurch and Kaiapoi. After WEL.

WEL III 11 02 15 56.4–.10 43.56S 172.81E 10–0 3.5L
¶16309747

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 11 04 23 43.8–.05 43.61S 172.58E 4–0 3.3L
¶16304064

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 11 05 21 17.5–.07 43.58S 172.64E 5–0 3.3L
¶16313896

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 11 07 38 50.1–.27 42.64S 171.11E 85–2 3.9L
¶600711218

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.3km az=90.0.

WEL III 11 08 33 12.0–.07 43.58S 172.63E 3–0 3.7L
¶16304091

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0.

WEL III 11 13 22 13.2–.14 44.62S 168.55E 5 3.5L
¶600711237

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=90.0.

WEL III 11 13 37 10.2–.09 43.59S 172.72E 9–0 4.2L
¶16309750

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

WEL III 12 05 54 48.2–.08 43.62S 172.74E 8–0 4.1L

NEIC III 12 05 54 47.7 43.63S 172.78E 10 4.0L **¶16309756**

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

WEL III 12 07 58 38.1–.07 43.58S 172.73E 8–0 3.3L
¶600711299

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 12 08 25 56.8–.06 43.58S 172.66E 5–0 3.0L
¶600711300

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

WEL III 12 11 46 21.5–.07 43.59S 172.63E 7–0 3.8L

NEIC III 12 11 46 21.3 43.58S 172.63E 8 3.8L **¶16310808**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

WEL III 12 16 18 59.3–.09 45.16S 167.87E 12 4.1L

NEIC III 12 16 18 59.5 45.15S 167.87E 16 4.1L **¶16310821**

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt from Fiordland to Otago, maximum reported intensity MM 4.

NEIC Event type fe. Felt at Te Anau. After WEL.

WEL III 12 17 24 57.6–.14 42.17S 173.98E 29–1 3.5L
¶600711322

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0.

WEL III 12 23 35 56.9–.08 43.49S 172.15E 8–1 2.9L
¶600711333

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.

ISC III 13 16 14 13.8–1.1 43.60S–.06 172.97E–.05 27 3.5b 178 0-150

ISCJB III 13 16 14 12.7–.37 43.62S–.04 173.06E–.05 27 3.7s,3.6b **¶16313901**

IDC III 13 16 14 12.6–3.4 43.53S 172.87E 0 3.8s,3.8

NEIC III 13 16 14 13.5 43.55S 172.91E 8 4.1L,3.9b

WEL III 13 16 14 14.3–.14 43.54S 172.84E 8–1 4.1L,3.9b

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=2.5km az=140.3.

IDC Error ellipse: s-maj=94.8km s-min=51.5km az=167.0.

NEIC Event type se. After WEL.

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.8km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 5.

WEL III 13 21 14 41.7–.18 44.18S 168.38E 5 3.7L
¶16313902

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.2km az=90.0.

WEL III 14 07 29 27.9–.06 43.58S 172.73E 9–0 3.9L

NEIC III 14 07 29 27.7 43.58S 172.74E 9 3.8L **¶16313905**

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

WEL III 15 11 46 55.8–.20 45.03S 167.39E 114–1 4.8L

NEIC III 15 11 46 55.8 45.02S 167.39E 114 4.8 **¶16322650**

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=1.2km az=90.0. Felt from Otago to Southland, maximum reported intensity MM 4.

NEIC Event type se. After WEL.

WEL III 15 13 50 12.0–.11 43.53S 172.75E 5–0 3.3L
¶600679890

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 15 13 57 59.0–.07 43.61S 172.49E 7–0 3.8L
¶16322653

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 17 10 29 56.2–.19 45.12S 167.40E 116–1 4.4L

NEIC III 17 10 29 56.2 45.12S 167.40E 115 4.4 **¶16335584**

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=90.0.

NEIC Event type se. After WEL.

WEL III 18 07 59 05.1–.08 43.59S 172.64E 7–0 3.8L

NEIC III 18 07 59 05.1 43.59S 172.64E 7 3.8L **¶16335590**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Christchurch. After WEL.

WEL III 18 11 25 13.5–.35 44.37S 168.05E 5 3.7L
¶16338678

WEL Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=90.0. Felt in the Otago region, maximum reported intensity MM 4.

WEL III 19 07 24 46.6–.08 43.58S 172.65E 4–0 3.5L
¶16338682

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

ISC III 20 00 10 21.9–.89 44.33S–.03 169.93E–.02 13–6 4.2b 93 0-153

IDC III 20 00 10 20.6–1.1 44.29S 169.84E 0 4.4,4.3b **¶16339547**

WEL III 20 00 10 22.2–.12 44.29S 169.90E 5 4.6L,4.3b

ISCJB III 20 00 10 22.2–.38 44.30S–.03 169.93E–.04 21–4 4.2b,3.5s

NEIC III 20 00 10 22.4 44.34S 169.96E 9 4.6L,4.3b

ISC Event type fe.

IDC Error ellipse: s-maj=35.7km s-min=10.3km az=158.0.

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 5.

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.4km az=138.4.

NEIC Event type fe. Felt [IV] at Twizel. After WEL. Moment Tensor Solution. s9 Moment tensor: Scale 10^{15}Nm; M_{rr}1.45 $M_{\theta\theta}$0.37 $M_{\phi\phi}$-1.82 $M_{r\theta}$-0.84 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.70 Best double couple: NP1:ϕ_s229.00000°,δ48.00000°,λ138.00000°. NP2:ϕ_s350.00000°,δ60.00000°,λ50.00000°. Principal axes: T 2.1900,Plg55.0000°,Azm207.0000°; N 0.0000,Plg34.0000°,Azm13.0000° ; P -2.1800,Plg7.0000°,Azm107.0000° M_o2.20000×10^{15}

ISC III 20 00 33 54.9–1.0 44.35S–.03 169.94E–.03 15–7 4.0b 59 0-153

IDC III 20 00 33 53.3–1.4 44.35S 169.83E 0 4.1,4.0b **¶16339548**

ISCJB III 20 00 33 53.9–.98 44.32S–.03 169.89E–.05 5–8 3.9b,4.0b

NEIC III 20 00 33 54.6 44.34S 169.92E 5 4.3L,4.0b

WEL III 20 00 33 54.6–.08 44.35S 169.94E 5 4.4L,4.0b

ISC Event type fe.

IDC Error ellipse: s-maj=43.8km s-min=10.9km az=155.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.0km az=40.2.

NEIC Event type fe. Felt [IV] at Twizel. After WEL.

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.

ISC III 20 00 34 58.3–.85 44.31S–.02 169.96E–.02 14–6 3.7b 50 0-153

IDC III 20 00 34 58.2–1.4 44.11S 169.72E 0 4.1,3.9 **¶16339549**

NEIC III 20 00 34 58.6 44.33S 169.94E 5 4.2L,3.9

WEL III 20 00 34 58.4–.09 44.32S 169.92E 5 4.2L,3.9

ISCJB III 20 00 34 58.6–.68 44.33S–.03 169.93E–.04 13–5 3.6b,3.9

ISC Event type fe.

NEIC Event type fe. Felt at Twizel. After WEL.

WEL Event type fe. Felt in the Canterbury region, maximum reported intensity MM 4.

ISCJB Event type fe.

ISC III 20 00 39 22.0–.92 44.32S–.03 169.99E–.04 17–6 4.1b,3.4s 61 0-153

IDC III 20 00 39 20.2–1.2 44.26S 169.84E 0 4.2,4.1b **¶16339550**

ISCJB III 20 00 39 22.4–.40 44.30S–.02 169.98E–.05 27–4 4.0b,3.4s

NEIC III 20 00 39 22.2 44.29S 169.97E 5 4.4L,3.4s

WEL III 20 00 39 22.2–.16 44.29S 169.97E 5 4.4L,3.4s

ISC Event type ke.

IDC Error ellipse: s-maj=41.6km s-min=10.4km az=158.0.

ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=22.8.

NEIC Event type se. After WEL.

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=90.0.

ISC III 20 08 47 39.8–.86 43.55S–.04 172.82E–.04 12–5 4.3b 126 0-159

ISCJB III 20 08 47 38.5–.50 43.57S–.03 172.86E–.04 14–3 4.3b **¶16339580**

BJI III 20 08 47 38.6 43.50S 172.91E 17 4.9b

IDC III 20 08 47 38.7–.90 43.47S 172.81E 0 4.5,4.3

WEL III 20 08 47 40.8–.08 43.52S 172.70E 12–0 4.9L,4.3

NEIC III 20 08 47 40.7 43.52S 172.70E 13 5.1L,4.5W

ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.8km az=138.3.

IDC Error ellipse: s-maj=30.5km s-min=13.4km az=162.0.

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt between Nelson, Otago and Marlborough, maximum reported intensity MM 8.

NEIC Event type fe. Felt [V] in the Christchurch area. Felt in much of Canterbury. After WEL. Moment Tensor Solution. s12 Moment tensor: Scale 10^{15}Nm; M_{rr}2.28 $M_{\theta\theta}$1.53 $M_{\phi\phi}$-3.81 $M_{r\theta}$2.48 $M_{\theta\phi}$-4.00 $M_{\phi r}$-1.51 Best double couple: NP1:ϕ_s66.00000°,δ63.00000°,λ152.00000°. NP2:ϕ_s170.00000°,δ65.00000°,λ30.00000°. Principal axes: T 5.9600,Plg38.0000° ,Azm29.0000°; N 0.0000,Plg52.0000°,Azm206.0000°; P -5.9500,Plg1.0000°,Azm298.0000° M_o6.00000×10^{15}

WEL III 22 14 32 07.9–.10 42.72S 171.75E 5 3.9L
¶16359558

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 4.

WEL III 22 20 06 21.3–.12 43.57S 172.76E 5 3.6L
¶16359559

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

WEL III 23 09 48 19.3–.10 43.57S 172.37E 5 3.2L
¶600680211

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 24 08 24 33.0–.08 43.59S 172.72E 9–0 3.7L
¶16359642

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

WEL III 24 11 03 59.5–.07 43.59S 172.68E 10–0 4.0L

NEIC III 24 11 03 59.7 43.59S 172.67E 9 4.0L **¶16359643**

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type se. After WEL.

WEL III 25 10 33 20.6–.07 43.60S 172.13E 5 2.6L
¶600680290

WEL Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0.

WEL III 25 10 36 49.1–.09 43.60S 172.55E 5 3.0L
¶600680291

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.

WEL III 25 13 11 35.9–.10 43.48S 172.76E 11–0 4.2L

NEIC III 25 13 11 35.9 43.48S 172.76E 11 4.2L **¶16361171**

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt in the Christchurch area. After WEL.

WEL III 25 20 15 06.4–.13 45.12S 167.38E 107–1 3.7L
¶16361173

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0.

WEL III 26 04 29 03.1–.16 43.57S 172.89E 10–0 3.8L
¶16361177

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

WEL III 26 11 09 37.6–.32 45.03S 167.40E 114–2 3.7L
¶16362932

WEL Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=90.0.

WEL III 27 09 41 13.4–.08 43.43S 171.88E 9–0 3.9L

NEIC III 27 09 41 13.4 43.44S 171.88E 9 3.9L **¶16362960**

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

NEIC Event type fe. Felt at Darfield. After WEL.

WEL III 27 15 52 15.6–.14 44.51S 168.35E 5 3.1L
¶600680345

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=90.0.

WEL III 27 15 52 34.3–.10 44.51S 168.37E 5 3.1L
¶600680348

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=90.0.

ISC III 27 22 54 09.0–1.2 43.59S–.04 170.21E–.03 10–9 48 0-152
IDC III 27 22 54 08.0–.91 43.53S 170.16E 0 3.9,3.7 **¶16373263**
ISCJB III 27 22 54 08.8–.66 43.63S–.04 170.21E–.05 11–6 3.6b,3.7
WEL III 27 22 54 09.4–.08 43.63S 170.25E 5 4.0L,3.7
NEIC III 27 22 54 09.6 43.63S 170.26E 5 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=86.5km s-min=14.0km az=18.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=141.8.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 4.
NEIC Event type se. After WEL.
WEL III 28 03 19 02.8–.29 45.11S 167.32E 120–2 3.6L
¶600680357
WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.4km az=90.0.
WEL III 30 07 40 25.9–.15 43.54S 172.17E 10–1 4.2L
NEIC III 30 07 40 26.0 43.54S 172.17E 10 4.2L **¶16391427**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL III 30 11 53 57.8–.09 43.54S 172.73E 8–0 3.8L
NEIC III 30 11 53 58.0 43.55S 172.71E 11 3.9L **¶16399958**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Widely felt in the Christchurch area. After WEL.
WEL III 31 17 28 03.3–.16 43.59S 172.66E 5–1 3.8L
¶16403634
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL III 31 17 54 35.5–.10 43.58S 172.71E 7–0 3.6L
¶16403635
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 01 22 21 03.9–.06 43.59S 172.65E 5 3.8L
NEIC IV 01 22 21 04.1 43.59S 172.65E 3 4.0L **¶16403640**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL IV 04 02 23 42.5–.09 43.56S 172.77E 10–0 4.0L
NEIC IV 04 02 23 42.6 43.56S 172.76E 10 4.0L **¶16406771**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL IV 04 11 21 52.0–.12 43.62S 172.74E 8–0 3.3L
¶16408810
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL IV 05 12 31 32.6–.20 44.74S 167.34E 5 3.9L
¶16411027
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.1km az=90.0. Felt in the Fiordland region, maximum reported intensity MM 4.
ISC IV 06 15 57 14.4–1.0 43.52S–.03 172.81E–.04 8–8 64 0-153
IDC IV 06 15 56 58.6–8.0 40.89S 176.62E 0 3.4,3.3 **¶16413334**
ISCJB IV 06 15 57 13.3–.56 43.58S–.03 172.86E–.05 15–4 3.0b,3.3
NEIC IV 06 15 57 15.4 43.53S 172.72E 10 4.0L,3.3
WEL IV 06 15 57 15.5–.08 43.53S 172.71E 10–0 4.0L,3.3
ISC Event type fe.
IDC Error ellipse: s-maj=551.0km s-min=60.5km az=1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=136.5.
NEIC Event type fe. Felt widely in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 07 15 12 04.6–.09 43.60S 172.64E 8–0 3.6L
¶16414395
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL IV 08 13 14 56.0–.29 44.97S 167.47E 90–2 3.6L
¶16415792
WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=90.0.
WEL IV 09 16 33 45.5–.18 43.54S 172.81E 7–0 3.5L
¶16416021
WEL Event type fe. Error ellipse: s-maj=1.9km s-min=0.9km az=90.0. Felt from Marlborough to Canterbury, maximum reported intensity MM 5.
WEL IV 11 06 10 15.7–.08 43.55S 172.39E 5 3.7L
¶16416811
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 12 02 11 24.0–.27 45.18S 167.34E 121–2 4.0L
NEIC IV 12 02 11 24.1 45.17S 167.35E 120 4.0 **¶16418232**
WEL Event type ke. Error ellipse: s-maj=2.5km s-min=1.3km az=90.0.
NEIC Event type se. After WEL.
WEL IV 12 09 36 28.9–.07 42.44S 173.55E 52–1 3.6L
¶16423564
WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0.
WEL IV 13 17 39 08.3–.10 43.21S 172.10E 8–1 3.6L
¶16427209
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL IV 15 19 41 30.8–.08 43.58S 172.74E 9–0 3.7L
¶16440146
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 15 20 42 11.1–.14 44.98S 167.36E 2 3.6L
¶16440147
WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0.
ISC IV 16 05 49 23.6–.30 43.57S–.03 172.81E–.04 10 5.2b,4.3s 309 0-165
ISCJB IV 16 05 49 20.6–.26 43.61S–.03 172.91E–.03 10 5.0b,4.3s **¶16440104**
BJI IV 16 05 49 21.8 43.90S 172.42E 7 5.4b,5.4b
IDC IV 16 05 49 21.8–.54 43.40S 172.77E 0 4.7,4.6
NEIC IV 16 05 49 22.2 43.61S 172.79E 11 5.3L,5.2b
GCMT IV 16 05 49 22.2–.20 43.59S 172.73E 12 5.0W,5.2b
WEL IV 16 05 49 22.7–.13 43.60S 172.76E 9–0 5.3L,5.2b
MOS IV 16 05 49 23.0–1.2 43.48S 172.54E 10 5.5b,5.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.1km az=142.0.
IDC Error ellipse: s-maj=17.9km s-min=12.8km az=167.0.
NEIC Event type fe. Felt [V] at Christchurch and [IV] at Rangiora. Also felt at Ashburton, Lyttelton, Oxford, Pleasant Point, Tai Tapu, Timaru and Woodend. After WEL. Moment Tensor Solution. s36 Moment tensor: Scale 10^{16}Nm; M_{rr}1.25 $M_{\theta\theta}$0.51 $M_{\phi\phi}$-1.76 $M_{r\theta}$1.65 $M_{\theta\phi}$-2.53 $M_{\phi r}$-0.33 Best double couple: NP1:ϕ_s174.00000°,δ58.00000°,λ23.00000°. NP2:ϕ_s71.00000° ,δ71.00000°,λ146.00000°. Principal axes: T 3.3400,Plg37.0000°,Azm29.0000° ; N 0.1400,Plg51.0000°,Azm226.0000°; P -3.4900,Plg8.0000°,Azm125.0000° $M_0$3.40000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s83,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.22±.10 $M_{\theta\theta}$0.32±.11; $M_{\phi\phi}$-1.55±.09; $M_{r\theta}$0.41±.26; $M_{\theta\phi}$-3.53±.07; $M_{\phi r}$0.82±.29; Best double couple: NP1:ϕ_s173.00000°,δ88.00000° ,λ-10.00000°. NP2:ϕ_s263.00000°,δ80.00000°,λ-178.00000°. Principal axes: T 3.0550,Plg6.0000°,Azm218.0000°; N 1.3450,Plg79.0000°,Azm340.0000° ; P -4.4090,Plg9.0000°,Azm127.0000° $M_0$3.73200×10^{16}
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt from Wairarapa to Southland, maximum reported intensity MM 8.
MOS Error ellipse: s-maj=16.7km s-min=11.5km az=129.4.
WEL IV 16 05 55 37.5–.13 43.58S 172.74E 7–0 3.7L
¶601003816
WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0.
WEL IV 16 06 35 54.8–.23 44.50S 168.34E 5 2.9L
¶601003820
WEL Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=90.0.
ISC IV 16 08 40 41.5–.96 43.57S–.04 172.81E–.04 12–6 85 0-149
ISCJB IV 16 08 40 40.9–.67 43.65S–.04 172.88E–.05 14–4 3.5s,3.2b **¶16440149**
IDC IV 16 08 40 41.3–1.8 43.24S 172.64E 0 3.6,3.5
WEL IV 16 08 40 43.0–.16 43.60S 172.76E 10–0 4.0L,3.5
NEIC IV 16 08 40 43.3 43.59S 172.72E 9 4.1L,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=44.7.
IDC Error ellipse: s-maj=46.5km s-min=15.5km az=148.0.
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL IV 16 18 12 04.3–.06 43.58S 172.62E 8–0 3.5L
¶601003847
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 18 08 41 34.6–.10 43.63S 172.37E 10–1 2.8L
¶601003906
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 3.
WEL IV 19 01 31 28.9–.10 43.53S 172.77E 8–0 4.0L
NEIC IV 19 01 31 29.0 43.53S 172.77E 7 4.0L,3.8b **¶16446875**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL IV 19 23 13 05.8–.14 43.56S 172.81E 8–0 3.8L
¶16448797
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 20 08 11 02.7–.10 43.58S 172.75E 8–0 3.7L
¶16448800
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 20 15 49 38.5–.12 43.57S 172.68E 6–0 2.8L
¶601003975
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL IV 20 21 17 50.6–.09 43.15S 170.80E 6–1 3.6L
¶16450378
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 4.
WEL IV 24 00 14 01.4–.10 43.57S 172.43E 9–1 3.6L
¶16452986
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC IV 24 08 51 00.5–.95 43.62S–.03 172.58E–.03 19–3 87 0-149
ISCJB IV 24 08 50 59.6–.47 43.66S–.03 172.64E–.05 23–4 3.2b **¶16453003**
IDC IV 24 08 50 59.9–1.9 43.36S 172.44E 0 3.6,3.5
WEL IV 24 08 51 01.3–.07 43.62S 172.50E 8–0 4.3L,3.5
NEIC IV 24 08 51 01.3 43.62S 172.49E 7 4.3L,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.0km az=43.4.
IDC Error ellipse: s-maj=48.7km s-min=14.4km az=153.0.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL IV 25 16 48 49.2–.13 43.62S 172.25E 5 2.9L
¶601004150
WEL Event type ke. Error ellipse: s-maj=1.2km s-min=1.0km az=90.0.
WEL IV 25 19 19 52.1–.09 43.57S 172.72E 8–0 3.7L
¶16460254
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 26 07 16 50.5–.11 43.58S 172.77E 7–0 3.9L
NEIC IV 26 07 16 50.1 43.60S 172.79E 9 3.9L **¶16460256**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt strongly at Christchurch. After WEL.
WEL IV 26 10 07 46.2–.08 43.58S 172.72E 7–0 4.1L
NEIC IV 26 10 07 46.2 43.59S 172.72E 8 4.2L **¶16460259**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL IV 26 10 08 15.8–.08 43.58S 172.73E 6–0 4.5L
¶602945452
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL IV 26 14 42 48.8–.08 43.46S 172.15E 8–1 3.9L
¶16463559
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL IV 29 17 48 02.4–.07 43.59S 172.42E 10–0 3.8L
¶16485262
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
ISC IV 29 19 08 03.1–.69 43.23S–.03 172.10E–.02 15–4 4.7b,4.1s 211 0-159
IDC IV 29 19 08 01.8–.61 43.06S 172.00E 0 4.4,4.4L **¶16485188**
ISCJB IV 29 19 08 02.3–.38 43.28S–.03 172.18E–.04 23–3 4.5b,4.2s
BJI IV 29 19 08 02.2 43.50S 171.61E 8 5.3b,5.0b
WEL IV 29 19 08 04.2–.08 43.18S 171.99E 11–0 5.2L,5.0b
NEIC IV 29 19 08 04.1 43.18S 172.01E 9 5.2L,4.8W
ISC Event type fe.
IDC Error ellipse: s-maj=20.6km s-min=10.2km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=2.6km az=138.3.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Marlborough to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt [III] at Christchurch. Also felt at Darfield and Rangora. After WEL. Moment Tensor Solution. s35 Moment tensor: Scale 10^{16}Nm; M_{rr}0.54 $M_{\theta\theta}$0.77 $M_{\phi\phi}$-1.30 $M_{r\theta}$0.30 $M_{\theta\phi}$-1.37 $M_{\phi r}$0.38 Best double couple: NP1:ϕ_s251.00000°,δ88.00000°,λ-168.00000°. NP2: ϕ_s161.00000°,δ78.00000°,λ-2.00000°. Principal axes: T 1.4600,Plg7.0000°,Azm25.0000° ; N 0.6100,Plg78.0000°,Azm262.0000°; P -2.0700,Plg10.0000°,Azm117.0000° $M_0$1.80000×10^{16}
WEL IV 30 04 35 00.6–.42 41.26S 172.54E 212–3 3.6L
¶601004322
WEL Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=90.0.
WEL IV 30 13 18 34.1–.11 43.18S 172.00E 5 2.9L
¶602945462
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0.
WEL IV 30 13 19 18.6–.09 43.60S 172.67E 10–0 3.6L
¶16485923
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 01 00 11 03.2–.17 45.05S 167.43E 122–1 3.9L
NEIC V 01 00 11 02.3 45.02S 167.40E 130 4.0 **¶16486892**
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=90.0.
NEIC Event type se. After WEL.
WEL V 01 14 57 03.0–.06 43.58S 172.62E 11–0 3.7L
¶16486895
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 01 19 56 48.1–.17 45.48S 167.18E 64–1 3.4L
¶601004386
WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0.
ISC V 03 06 55 19.2–.79 41.48S–.04 173.29E–.04 119–5 248 0-152
ISCJB V 03 06 55 17.9–.26 41.51S–.03 173.35E–.04 135–4 3.7b **¶16489317**
IDC V 03 06 55 17.7–1.1 41.50S 173.42E 94–12 4.1,4.0
NEIC V 03 06 55 20.0 41.35S 173.23E 114 5.0,4.0
WEL V 03 06 55 20.4–.21 41.40S 173.25E 111–1 4.9L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=2.7km az=40.1.
IDC Error ellipse: s-maj=34.1km s-min=8.8km az=131.0.
NEIC Event type fe. Felt in Marlborough, Nelson and Wellington. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.5km az=0.0. Felt from Whanganui to Canterbury, maximum reported intensity MM 5.
WEL V 04 17 27 44.6–.15 45.08S 167.36E 61–2 3.7L

¶16497695
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=90.0.
WEL V 04 20 54 15.6–.07 43.53S 172.71E 7–0 4.1L
NEIC V 04 20 54 15.6 43.53S 172.70E 7 4.1L ¶16497703
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type se. After WEL.
WEL V 05 09 24 14.1–.05 43.58S 172.72E 5 3.5L
¶16497730
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 07 01 23 16.1–.07 43.60S 172.67E 5–0 4.0L
NEIC V 07 01 23 15.9 43.60S 172.66E 6 4.0L ¶16498445
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 7.
NEIC Event type fe. Felt strongly at Christchurch. After WEL.
WEL V 07 20 49 56.3–.20 43.54S 172.82E 7–0 3.6L
¶16499292
WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 08 23 52 18.9–.08 43.59S 172.40E 11–0 4.0L
NEIC V 08 23 52 19.0 43.59S 172.39E 10 4.0L ¶16501025
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
ISC V 09 15 04 24.2–.40 43.56S–.04 172.46E–.03 16 4.7b,4.1s 185 0-159
ISCJB V 09 15 04 20.9–.27 43.62S–.03 172.59E–.04 16 4.8b,4.2s ¶16501829
GCMT V 09 15 04 23.2–.30 43.56S 172.31E 14–1 5.0W,4.2s
NEIC V 09 15 04 23.3 43.59S 172.41E 12 5.2L,5.0W
WEL V 09 15 04 23.3–.05 43.59S 172.41E 12 5.2L,5.0W
IDC V 09 15 04 24.6–.70 43.23S 172.12E 0 4.7,4.6b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.4km az=140.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c23; s70,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.15±.13 $M_{\theta\theta}$2.79±.12; $M_{\phi\phi}$-2.94±.12; $M_{r\theta}$0.38±.26; $M_{\theta\phi}$-1.44±.11; $M_{\phi r}$1.75±.39; Best double couple: NP1:ϕ_s146.00000°,δ74.00000°,λ-17.00000°. NP2:ϕ_s241.00000°,δ73.00000°,λ-164.00000°. Principal axes: T 3.1320,Plg1.0000°,Azm194.0000°; N 0.9130,Plg67.0000°,Azm285.0000°; P -4.0470,Plg23.0000°,Azm103.0000° $M_0$3.58900×10^{16}
NEIC Event type fe. Felt [V] at Christchurch. Felt in much of Canterbury. Also felt in the Greymouth area. After WEL. Moment Tensor Solution. s20 Moment tensor: Scale 10^{16}Nm; M_{rr}0.32 $M_{\theta\theta}$3.01 $M_{\phi\phi}$-3.32 $M_{r\theta}$-0.34 $M_{\theta\phi}$-1.05 $M_{\phi r}$0.39 Best double couple: NP1:ϕ_s234.00000°,δ81.00000°,λ178.00000°. NP2:ϕ_s324.00000°,δ88.00000°,λ9.00000°. Principal axes: T 3.2300,Plg8.0000°,Azm190.0000°; N 0.2900,Plg81.0000°,Azm337.0000°; P -3.5200,Plg5.0000°,Azm99.0000° $M_0$3.40000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=0.0. Felt between Nelson, Otago and Wellington, maximum reported intensity MM 7.
IDC Error ellipse: s-maj=20.9km s-min=11.1km az=145.0.
WEL V 09 21 09 19.7–.06 43.59S 172.39E 12 4.1L
NEIC V 09 21 09 19.5 43.59S 172.40E 15 4.1L ¶16502618
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL V 10 12 08 24.7–.07 43.54S 172.73E 5–0 3.8L
NEIC V 10 12 08 24.1 43.54S 172.75E 8 3.9L ¶16506429
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt [V] in the Christchurch area. After WEL.
WEL V 12 07 44 24.3–.19 44.19S 168.56E 5 3.6L
¶16506437
WEL Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=90.0.
WEL V 12 08 08 50.9–.22 45.18S 167.36E 124–1 3.5L
¶601004829
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=90.0.
WEL V 12 12 11 36.8–.14 43.52S 172.70E 11–0 3.6L
¶16509192
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 13 10 45 48.8–.09 43.57S 172.40E 5 3.5L
¶16509197
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 14 01 30 30.3–.28 45.10S 167.43E 110–2 3.5L
¶601004908
WEL Event type ke. Error ellipse: s-maj=2.4km s-min=1.5km az=90.0.
WEL V 14 11 57 29.3–.16 45.06S 167.52E 84–1 3.8L
¶16512063
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=90.0.
WEL V 14 13 01 40.8–.07 43.66S 172.36E 9–0 3.9L
NEIC V 14 13 01 40.6 43.67S 172.37E 12 4.1b,4.0L ¶16512064
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL V 14 14 25 03.5–.15 43.56S 172.85E 9–0 4.2L
NEIC V 14 14 25 03.6 43.55S 172.83E 9 4.1L ¶16512065
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL V 14 14 40 32.4–.18 43.56S 172.86E 9–0 3.6L
NEIC V 14 14 40 31.8 43.55S 172.90E 9 4.0L ¶16512067
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL V 17 00 41 56.8–.06 43.60S 172.52E 7–0 3.9L
NEIC V 17 00 41 56.7 43.59S 172.52E 8 4.1L ¶16523290
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL V 17 13 17 55.0–.11 43.55S 172.19E 9–1 3.6L
¶16527119
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 19 02 42 26.7–.05 43.61S 172.52E 11–0 3.7L
¶16528397
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 20 21 39 54.5–.30 41.32S 172.57E 198–2 3.7L
¶16531628
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=90.0.
WEL V 21 19 56 23.2–.06 43.59S 172.43E 10–0 3.7L
¶16532354
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL V 22 07 06 47.5–.16 43.49S 172.78E 7–1 3.5L
¶601006022
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL V 22 23 06 47.8–.30 43.54S 172.85E 6–1 3.5L
¶601006047
WEL Event type fe. Error ellipse: s-maj=2.6km s-min=1.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL V 24 18 00 21.0–.08 43.58S 172.70E 6–0 4.1L
NEIC V 24 18 00 15.9 43.69S 172.91E 36 3.9L ¶16543230
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL V 26 04 55 58.7–.09 43.32S 170.85E 5 3.8L
¶16546011
WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0.
WEL V 26 16 36 09.5–.09 43.53S 172.70E 5 3.5L

¶601006160
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
ISC V 27 03 42 50.7–.75 44.46S–.03 170.63E–.04 10 55 0-149
ISCJB V 27 03 42 50.2–.41 44.47S–.04 170.67E–.05 10 3.7b,2.5s ¶16549420
IDC V 27 03 42 51.0–1.6 44.32S 170.23E 0 4.0,3.7
NEIC V 27 03 42 51.2 44.46S 170.66E 5 4.3L,3.7
WEL V 27 03 42 51.1–.10 44.46S 170.66E 5 4.3L,3.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.5km az=137.2.
IDC Error ellipse: s-maj=45.1km s-min=10.7km az=144.0.
NEIC Event type fe. Felt in southern Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
ISC V 28 05 24 49.8–.73 45.51S–.05 167.09E–.05 74–6 3.7b 84 0-146
ISCJB V 28 05 24 48.7–.39 45.49S–.04 167.16E–.05 84–4 4.2b ¶16551271
IDC V 28 05 24 50.8–7.2 45.39S 167.20E 79–70 4.8L,3.6
WEL V 28 05 24 50.4–.22 45.56S 167.01E 65–1 4.5L,3.6
NEIC V 28 05 24 50.6 45.58S 167.04E 64 4.7b,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=145.4.
IDC Error ellipse: s-maj=73.3km s-min=26.1km az=16.0.
WEL Event type fe. Error ellipse: s-maj=2.7km s-min=1.6km az=90.0. Felt between Otago, Southland and Fiordland, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Te Anau. After WEL.
WEL V 28 12 05 20.4–.07 43.54S 172.70E 10–0 3.6L
¶16551323
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 28 13 35 07.5–.18 41.86S 173.97E 15–1 3.8L
¶16551335
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.3km az=0.0. Felt in the Marlborough region, maximum reported intensity MM 4.
WEL V 28 17 14 09.7–.06 43.58S 172.61E 5 3.5L
¶601006219
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL V 30 20 26 37.6–.10 43.57S 172.32E 9–1 3.5L
¶601006279
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL V 31 08 08 55.6–.07 43.56S 172.63E 8–0 3.6L
¶16551672
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL V 31 19 25 04.1–.13 43.59S 172.73E 7–0 3.6L
¶16552972
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 03 23 07 32.7–.08 43.63S 172.36E 7–0 4.1L
NEIC VI 03 23 07 32.7 43.62S 172.37E 8 4.0L ¶16557028
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 04 19 45 09.9–.08 43.62S 172.42E 9–0 3.7L
¶16557330
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 04 22 37 55.7–.06 43.63S 172.42E 11–0 3.9L
NEIC VI 04 22 37 55.6 43.62S 172.42E 12 3.9L ¶16557331
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 05 19 00 39.2–.07 43.60S 172.50E 10–0 3.7L
¶16558325
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 05 19 58 05.9–.10 41.95S 172.46E 12 3.8L
¶16558326
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt from Nelson to West Coast, maximum reported intensity MM 4.
ISC VI 05 21 09 55.0–.95 43.56S–.02 172.43E–.02 1–5 5.0b,4.2s 421 0-167
IDC VI 05 21 09 53.8–.60 43.62S 172.43E 0 4.7,4.6 ¶16558247
ISCJB VI 05 21 09 53.0–.47 43.61S–.02 172.58E–.03 14–3 5.0b,4.2s
NEIC VI 05 21 09 55.3 43.58S 172.39E 8 5.5L,5.1b
BJI VI 05 21 09 55.3 43.72S 172.21E 6 5.6b,5.3b
GCMT VI 05 21 09 55.3–.20 43.49S 172.31E 12 5.1W,5.3b
WEL VI 05 21 09 55.3–.05 43.59S 172.39E 9–0 5.5L,5.3b
MOS VI 05 21 09 56.0–2.0 43.47S 172.19E 10 5.0b,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=21.7km s-min=10.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.4km az=137.4.
NEIC Event type fe. Felt [V] at Christchurch. Felt throughout Canterbury and in the Hokitika-Westport area. After WEL. Moment Tensor Solution. s41 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.04 $M_{\theta\theta}$1.14 $M_{\phi\phi}$-1.11 $M_{r\theta}$0.50 $M_{\theta\phi}$-3.96 $M_{\phi r}$0.35 Best double couple: NP1:ϕ_s262.00000°,δ86.00000°,λ-173.00000°. NP2:ϕ_s172.00000°,δ83.00000°,λ-4.00000°. Principal axes: T 4.1400,Plg3.0000°,Azm37.0000°; N 0.0300,Plg82.0000°,Azm289.0000°; P -4.1800,Plg8.0000°,Azm127.0000° $M_0$4.20000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c45; s95,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.03±.12 $M_{\theta\theta}$2.41±.11; $M_{\phi\phi}$-2.37±.10; $M_{r\theta}$-0.30±.30; $M_{\theta\phi}$-4.15±.09; $M_{\phi r}$-0.12±.29; Best double couple: NP1:ϕ_s75.00000°,δ90.00000°,λ-176.00000°. NP2:ϕ_s345.00000°,δ86.00000°,λ0.00000°. Principal axes: T 4.8170,Plg2.0000°,Azm210.0000°; N -0.0290,Plg86.0000°,Azm82.0000°; P -4.7830,Plg3.0000°,Azm300.0000° $M_0$4.80000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0. Felt between Nelson, Southland and Wellington, maximum reported intensity MM. 7.
MOS Error ellipse: s-maj=14.4km s-min=11.5km az=83.4.
WEL VI 05 23 41 59.4–.08 43.57S 172.41E 10–0 3.8L
NEIC VI 05 23 41 59.3 43.57S 172.40E 10 3.8L ¶16558327
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in central Canterbury. After WEL.
ISC VI 06 05 04 19.2–.90 43.57S–.04 172.45E–.03 20–4 89 0-149
ISCJB VI 06 05 04 18.3–.38 43.63S–.04 172.53E–.06 27–3 3.8b,3.2s ¶16558328
NEIC VI 06 05 04 19.6 43.59S 172.40E 10 4.5L,3.2s
WEL VI 06 05 04 19.8–.06 43.58S 172.40E 9–0 4.5L,3.2s
IDC VI 06 05 04 21.1–1.3 43.13S 172.02E 0 4.1,3.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.0km az=45.0.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 6.
IDC Error ellipse: s-maj=37.1km s-min=12.4km az=134.0.
WEL VI 06 08 25 20.6–.08 43.58S 172.39E 10–0 3.5L
¶601026994
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC VI 07 15 15 06.9–.78 42.32S–.03 173.16E–.03 15 118 0-150
ISCJB VI 07 15 15 06.2–.26 42.37S–.03 173.19E–.04 15 3.4s,3.3b ¶16578080
IDC VI 07 15 15 06.3–9.5 40.72S 173.52E 0 3.6,3.4
NEIC VI 07 15 15 07.2 42.31S 173.15E 12 4.0L,3.4
WEL VI 07 15 15 07.3–.07 42.32S 173.17E 12 4.0L,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.6km az=135.4.
IDC Error ellipse: s-maj=573.0km s-min=52.9km az=34.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 07 15 54 46.6–.08 43.50S 172.15E 9–0 3.5L
¶601027044

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 10 01 53 23.0–.28 41.26S 172.66E 194–2 3.7L
¶16587354

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=90.0.
ISC VI 10 19 32 00.8–1.2 44.17S–.04 168.42E–.03 11–8 4.3b,3.2s 140 0-152
ISCJB VI 10 19 31 59.7–.63 44.07S–.02 168.30E–.04 12–4 4.4b,3.1s **¶16590034**
IDC VI 10 19 32 00.7–1.0 43.96S 168.36E 0 4.3L,4.0
WEL VI 10 19 32 01.4–.16 44.19S 168.38E 5 4.6L,4.0
NEIC VI 10 19 32 01.1 44.18S 168.36E 5 4.9b,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=35.9.
IDC Error ellipse: s-maj=48.8km s-min=19.2km az=1.0.
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=1.2km az=90.0. Felt from Auckland to Otago, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Fox Glacier. After WEL.
ISC VI 12 02 28 18.8–1.2 44.31S–.03 168.19E–.04 7–8 4.0b 105 0-152
ISCJB VI 12 02 28 17.5–.77 44.22S–.03 168.14E–.05 10–5 4.2b,3.3s **¶16591644**
NEIC VI 12 02 28 18.5 44.31S 168.16E 5 5.2b,4.8L
WEL VI 12 02 28 18.6–.10 44.32S 168.17E 5 4.8L,4.8L
IDC VI 12 02 28 18.8–1.9 44.29S 168.26E 0 4.3L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.5km az=31.4.
NEIC Event type fe. Felt in western Otago. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Auckland to Otago, maximum reported intensity MM 4.
IDC Error ellipse: s-maj=78.6km s-min=18.3km az=177.0.
ISC VI 13 00 29 43.1–.93 43.38S–.03 172.21E–.03 10–6 99 0-149
ISCJB VI 13 00 29 42.3–.55 43.39S–.03 172.25E–.05 12–4 3.6b **¶16594421**
NEIC VI 13 00 29 44.1 43.37S 172.16E 11 4.3L
WEL VI 13 00 29 44.2–.07 43.37S 172.17E 7–1 4.3L
IDC VI 13 00 29 44.3–1.6 43.22S 172.07E 0 4.0,3.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.5km az=43.5.
NEIC Event type fe. Felt in central Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 7.
IDC Error ellipse: s-maj=43.8km s-min=12.8km az=139.0.
ISC VI 13 01 01 00.1–1.2 43.53S–.02 172.79E–.03 2–7 5.1b,4.6s 305 0-175
ISCJB VI 13 01 00 57.9–.26 43.58S–.02 172.92E–.03 10 5.0b,4.6s **¶16594422**
WEL VI 13 01 01 00.3–.09 43.58S 172.75E 9–0 5.9L,5.3W
NEIC VI 13 01 01 00.3 43.58S 172.76E 9 5.6L,5.2W
IDC VI 13 01 01 00.6–.55 43.35S 172.64E 0 4.8,4.7b
GCMT VI 13 01 01 00.3–.10 43.49S 172.62E 12 5.2W,4.7b
MOS VI 13 01 01 02.5–1.2 43.38S 172.30E 10 5.1b,4.8s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.1km az=146.0.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt from Wellington to Southland, maximum reported intensity MM 7.
NEIC Event type fe. Felt [V] at Christchurch. Also felt at Ashburton, Cust, Dunedin and Timaru. After WEL. Moment Tensor Solution. s29 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42 $M_{\theta\theta}$7.37 $M_{\phi\phi}$-6.95 $M_{r\theta}$1.81 $M_{\theta\phi}$-1.84 $M_{\phi r}$-1.08 Best double couple: NP1:ϕ_s143.00000°,δ86.00000° ,λ14.00000°. NP2:ϕ_s52.00000°,δ76.00000°,λ176.00000°. Principal axes: T 8.0400,Plg13.0000°,Azm8.0000°; N -0.7500,Plg75.0000°,Azm158.0000° ; P -7.2900,Plg7.0000°,Azm276.0000° $M_0$7.70000×10^{16}
IDC Error ellipse: s-maj=14.1km s-min=12.0km az=136.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s55,c79; s107,c190;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.08±.01 $M_{\theta\theta}$0.67±.01; $M_{\phi\phi}$-0.74±.01; $M_{r\theta}$0.17±.04; $M_{\theta\phi}$-0.36±.01; $M_{\phi r}$0.10±.03; Best double couple: NP1:ϕ_s58.00000° ,δ88.00000°,λ166.00000°. NP2:ϕ_s149.00000°,δ76.00000°,λ2.00000°. Principal axes: T 0.7770,Plg11.0000°,Azm12.0000°; N 0.0720,Plg76.0000°,Azm231.0000° ; P -0.8490,Plg9.0000°,Azm104.0000° $M_0$0.81300×10^{17}
MOS Error ellipse: s-maj=18.3km s-min=11.8km az=120.7.
ISC VI 13 01 08 30.2–.97 43.60S–.04 172.86E–.04 13–5 3.5b 84 0-149
ISCJB VI 13 01 08 29.8–.50 43.60S–.03 172.86E–.03 13–3 3.5b **¶16594423**
NEIC VI 13 01 08 31.2 43.59S 172.77E 11 4.4L,3.7b
WEL VI 13 01 08 32.0–.11 43.56S 172.74E 6–0 4.4L,3.7b
IDC VI 13 01 08 32.0–1.9 43.15S 172.46E 0 4.4,4.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.2km az=154.3.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt from Auckland to Otago, maximum reported intensity MM 7.
IDC Error ellipse: s-maj=46.5km s-min=14.8km az=143.0.
ISC VI 13 02 20 50.3–.47 43.50S–.02 172.78E–.02 9–2 6.0s,5.8b 1485 0-178
ISCJB VI 13 02 20 48.9–.18 43.40S–.02 172.82E–.03 10 6.0s,5.8b **¶16591901**
MOS VI 13 02 20 48.0–1.1 43.37S 172.89E 10 5.9s,5.8b
BJI VI 13 02 20 49.4 43.63S 172.67E 8 6.0b,5.9s
WEL VI 13 02 20 49.3–.10 43.57S 172.74E 7–0 6.4L,6.0W
GCMT VI 13 02 20 49.3–.10 43.52S 172.62E 12 6.0W,6.0W
NEIC VI 13 02 20 49.3 43.56S 172.74E 6 6.4,6.3L
IDC VI 13 02 20 49.1–.34 43.36S 172.90E 0 5.7,5.7s
NEIC VI 13 02 20 50.0–.00 43.68S 172.74E 11 5.7,5.7s
ISC Event type de.
ISCJB Event type de. Error ellipse: s-maj=3.7km s-min=2.0km az=141.1.
MOS Error ellipse: s-maj=14.4km s-min=11.2km az=92.2.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Northland to Otago, maximum reported intensity MM 8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c279; s144,c463;Duration: 2s3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.29±.01 $M_{\theta\theta}$0.55±.01; $M_{\phi\phi}$-0.84±.01; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$-0.75±.01; $M_{\phi r}$-0.19±.02; Best double couple: NP1:ϕ_s161.00000°,δ76.00000°,λ19.00000°. NP2:ϕ_s66.00000° ,δ72.00000°,λ165.00000°. Principal axes: T 1.0080,Plg23.0000°,Azm24.0000° ; N 0.1690,Plg67.0000°,Azm197.0000°; P -1.1770,Plg3.0000°,Azm293.0000° $M_0$1.09200×10^{18}
NEIC Event type de. Forty-five people injured, 100 previously-damaged buildings destroyed, many roads damaged, one bridge destroyed, utilities disrupted, widespread liquefaction and landslides observed [VII] in the Christchurch area. Seaport damaged at Lyttelton. Total damage in Canterbury estimated at 3 to 5 billion U.S. dollars. Felt [IV] at Westport and [III] at Dunedin. Felt in much of Canterbury and as far as Invercargill and Wellington. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After WEL. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}2.77 $M_{\theta\theta}$4.74 $M_{\phi\phi}$-7.50 $M_{r\theta}$4.44 $M_{\theta\phi}$-5.41 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s61.00000°,δ74.00000° ,λ150.00000°. NP2:ϕ_s160.00000°,δ61.00000°,λ18.00000°. Principal axes: T 9.3600,Plg32.0000°,Azm17.0000°; N 0.4800,Plg56.0000°,Azm216.0000° ; P -9.8400,Plg9.0000°,Azm113.0000° $M_0$9.60000×10^{17} Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}3.33 $M_{\theta\theta}$4.16 $M_{\phi\phi}$-7.49 $M_{r\theta}$3.02 $M_{\theta\phi}$-3.89 $M_{\phi r}$0.21 Best double couple: NP1:ϕ_s157.00000°,δ62.00000°,λ23.00000°. NP2:ϕ_s56.00000° ,δ70.00000°,λ149.00000°. Principal axes: T 7.3700,Plg36.0000°,Azm14.0000° ; N 1.4100,Plg54.0000°,Azm205.0000°; P -8.7700,Plg5.0000°,Azm108.0000° $M_0$8.20000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ48.00000°,λ155.00000°. NP2:ϕ_s160.00000°,δ72.00000°,λ45.00000°. Principal axes: T Plg44.0000°,Azm26.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000° ,Azm281.0000°
IDC Error ellipse: s-maj=13.6km s-min=10.3km az=52.0.
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$4.41 $M_{\phi\phi}$-6.21 $M_{r\theta}$3.88 $M_{\theta\phi}$-6.02 $M_{\phi r}$-1.54 Best double couple: NP1:ϕ_s66.00000° ,δ71.00000°,λ158.00000°. NP2:ϕ_s163.00000°,δ69.00000°,λ20.00000°. Principal axes: T 9.4100,Plg28.0000°,Azm23.0000°; N -0.4800,Plg61.0000°,Azm206.0000° ; P -8.9300,Plg1.0000°,Azm114.0000° $M_0$9.20000×10^{17}
WEL VI 13 02 21 23.6–.14 43.59S 172.74E 10–0 5.1L
¶603482769

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0.
WEL VI 13 02 21 44.3–.17 43.58S 172.81E 5 4.6L
¶603482770

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0.
WEL VI 13 02 21 48.3–.10 43.57S 172.80E 7–0 4.7L
¶603482771

WEL Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0.
WEL VI 13 02 22 43.7–.27 43.63S 172.81E 5 4.9L
¶603482772

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=90.0.
WEL VI 13 02 23 19.5–.15 43.56S 172.77E 9–0 4.1L
¶603482773

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0.
WEL VI 13 02 23 23.7–.12 43.56S 172.75E 8–0 4.2L
¶603482774

WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0.
WEL VI 13 02 23 40.2–.14 43.55S 172.74E 5–1 4.8L
¶603482775

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0.
WEL VI 13 02 23 53.9–.29 43.54S 172.82E 5 4.0L
¶603482776

WEL Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=90.0.
WEL VI 13 02 24 08.3–.23 43.55S 172.79E 5–1 3.8L
¶603482777

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=90.0.
WEL VI 13 02 24 35.6–.13 43.55S 172.81E 7–0 3.8L
¶603482778

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0.
WEL VI 13 02 24 41.6–.21 43.56S 172.70E 9–1 3.5L
¶603482779

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0.
WEL VI 13 02 24 50.8–.54 43.57S 172.66E 15–3 3.8L
¶603482780

WEL Event type ke. Error ellipse: s-maj=4.3km s-min=2.4km az=90.0.
WEL VI 13 02 25 26.8–.12 43.58S 172.75E 8–0 3.4L
¶603482781

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0.
WEL VI 13 02 25 33.5–.14 43.58S 172.78E 6–0 4.0L
¶603482782

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL VI 13 02 26 00.9–.17 43.56S 172.75E 8–1 3.5L
¶603482783

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=90.0.
WEL VI 13 02 26 41.6–.13 43.61S 172.80E 7–0 4.1L
¶603482784

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0.
WEL VI 13 02 27 03.7–.19 43.56S 172.74E 6–1 4.0L
¶603482768

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0.
WEL VI 13 02 27 45.8–.12 43.57S 172.76E 5 4.4L
¶603482785

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0.
WEL VI 13 02 28 20.1–.44 43.56S 172.77E 9–2 3.1L
¶603482786

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.5km az=90.0.
WEL VI 13 02 29 51.5–.15 43.54S 172.75E 8–0 4.1L
¶601027190

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0.
WEL VI 13 02 30 00.7–.16 43.58S 172.79E 4–0 4.2L
¶601027193

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
WEL VI 13 02 30 07.2–.18 43.57S 172.78E 8–0 3.9L
¶601027196

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
WEL VI 13 02 31 01.9–.13 43.61S 172.79E 6–0 3.5L
¶601027202

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0.
WEL VI 13 02 31 19.7–.26 43.62S 172.85E 5–1 3.8L
¶601027205

WEL Event type ke. Error ellipse: s-maj=2.4km s-min=1.0km az=90.0.
WEL VI 13 02 31 29.9–.10 43.59S 172.76E 7–0 4.0L
¶601027211

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0.
WEL VI 13 02 31 56.2–.17 43.58S 172.85E 5–0 3.9L
¶601027214

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.5km az=90.0.
WEL VI 13 02 35 23.8–.13 43.57S 172.76E 7–0 3.6L
¶601027225

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0.
WEL VI 13 02 37 30.1–.14 43.58S 172.77E 8–0 3.5L
¶601027234

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0.
WEL VI 13 02 39 42.2–.19 43.58S 172.79E 7–0 3.5L
¶603482788

WEL Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0.
WEL VI 13 02 39 50.5–.18 43.58S 172.77E 7–0 3.4L
¶603482789

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=90.0.
ISC VI 13 02 40 28.6–1.2 43.50S–.03 172.89E–.04 1–8 4.4b 184 0-153
ISCJB VI 13 02 40 27.7–.59 43.61S–.03 172.95E–.04 9–4 4.4b **¶16593450**
IDC VI 13 02 40 29.6–1.2 43.34S 172.68E 0 4.5,4.3
WEL VI 13 02 40 30.7–.11 43.53S 172.76E 4–0 4.7L,4.3
NEIC VI 13 02 40 30.8 43.56S 172.81E 12 4.9L,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.8km az=138.6.
IDC Error ellipse: s-maj=43.3km s-min=14.1km az=157.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt from Auckland to Southland, maximum reported intensity MM 7.
NEIC Event type fe. Felt at Christchurch and Cust. After WEL.
WEL VI 13 02 40 41.6–.12 43.58S 172.82E 5 4.4L
¶603482787

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=90.0.
WEL VI 13 02 42 54.9–.16 43.55S 172.74E 8–0 3.4L
¶601027245

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=90.0.
WEL VI 13 02 43 56.2–.12 43.57S 172.75E 6–0 3.3L
¶601027246

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0.
ISC VI 13 02 45 43.9–.97 43.54S–.05 172.71E–.05 12–6 19 0-149
ISCJB VI 13 02 45 44.6–.96 43.60S–.04 172.70E–.09 11–4 3.5b **¶601027252**
IDC VI 13 02 45 44.7–1.8 43.37S 172.60E 0 3.8,3.6
WEL VI 13 02 45 45.8–.09 43.58S 172.66E 5–0 4.1L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.4km az=170.4.
IDC Error ellipse: s-maj=48.7km s-min=15.3km az=155.0.
WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0.
WEL VI 13 02 48 36.0–.18 43.53S 172.76E 6–1 3.5L
¶601027263

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0.
WEL VI 13 02 49 07.2–.14 43.59S 172.64E 11–0 3.2L
¶601027266

WEL Event type ke. Error ellipse: s-maj=2.5km s-min=0.8km az=90.0.
ISC VI 13 02 54 06.9–1.1 43.54S–.04 172.88E–.04 10–7 102 0-149
ISCJB VI 13 02 54 05.8–.60 43.59S–.03 172.89E–.04 12–4 3.5b **¶16594428**
IDC VI 13 02 54 06.9–1.8 43.42S 172.74E 0 3.9,3.7
NEIC VI 13 02 54 07.8 43.54S 172.73E 13 4.1L,3.7
WEL VI 13 02 54 08.1–.12 43.53S 172.77E 6–0 4.1L,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.5km az=139.1.
IDC Error ellipse: s-maj=48.6km s-min=16.6km az=158.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL VI 13 02 54 16.3–.10 43.56S 172.76E 7–0 3.7L
¶603482791

WEL Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0.
WEL VI 13 02 54 45.7–.13 43.58S 172.75E 7–0 3.3L
¶603482790

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0.

WEL VI 13 02 56 02.5–.13 43.59S 172.81E 5–0 3.6L
¶601027274

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0.
WEL VI 13 03 08 29.4–.13 43.59S 172.76E 10–0 3.8L
¶16594429

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt from Canterbury to Southland, maximum reported intensity MM 5.
WEL VI 13 03 12 25.5–.16 43.61S 172.79E 6–0 3.5L
¶601027310

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0.
WEL VI 13 03 13 50.3–.13 43.58S 172.78E 6–0 3.6L
¶601027314

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0.
WEL VI 13 03 33 08.7–.20 43.62S 172.81E 5–0 3.4L
¶603731176

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 03 33 35.6–.32 43.59S 172.67E 5 2.9L
¶603482793

WEL Event type ke. Error ellipse: s-maj=4.7km s-min=1.3km az=90.0.
WEL VI 13 03 34 19.5–.18 43.59S 172.74E 5 2.7L
¶16594431

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=90.0.
WEL VI 13 03 39 52.5–.08 43.56S 172.72E 6–0 3.5L
¶603482794

WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0.
ISC VI 13 03 40 07.2–3.4 43.58S–.07 173.0E–.20 3–18 14 0-149
ISCJB VI 13 03 40 10.0–1.6 43.62S–.06 172.7E–.20 12–4 3.4b **¶16594432**
WEL VI 13 03 40 09.8–.16 43.59S 172.80E 4–0 4.0L
IDC VI 13 03 40 10.8–2.3 43.30S 172.57E 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=9.3km az=177.9.
WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0.
IDC Error ellipse: s-maj=55.1km s-min=18.4km az=152.0.
WEL VI 13 04 10 47.5–.19 43.58S 172.80E 7–0 3.4L
¶603814386

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
WEL VI 13 04 11 28.2–.14 43.56S 172.73E 7–0 3.0L
¶16594433

WEL Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0.
WEL VI 13 04 14 16.0–.08 43.58S 172.75E 9–0 3.5L
¶16594434

WEL Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0.
WEL VI 13 04 23 09.4–.11 43.56S 172.75E 6–0 3.6L
¶16594435

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 04 24 11.7–.33 43.62S 172.82E 4–1 3.4L
¶601027336

WEL Event type ke. Error ellipse: s-maj=2.7km s-min=1.1km az=90.0.
WEL VI 13 04 40 40.5–.13 43.59S 172.79E 6–0 3.6L
¶16594437

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 04 56 36.4–.12 43.54S 172.74E 8–0 3.4L
¶16594438

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 4.
WEL VI 13 05 10 40.4–.19 43.59S 172.74E 8–0 3.4L
¶601027350

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=90.0.
WEL VI 13 05 10 43.1–.13 43.59S 172.74E 8–0 3.5L
¶601027353

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0.
WEL VI 13 05 29 50.5–.18 43.58S 172.74E 7–1 2.9L
¶16594440

WEL Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=90.0.
WEL VI 13 05 32 13.1–.08 43.36S 172.18E 5 3.0L
¶601027359

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0.
WEL VI 13 06 16 04.9–.16 43.52S 172.76E 4–1 3.6L
¶603482795

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 06 16 16.0–.22 43.52S 172.77E 5 3.1L
¶16594441

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=90.0.
WEL VI 13 06 17 59.7–.10 43.59S 172.77E 9–0 3.6L
¶601027369

WEL Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0.
WEL VI 13 07 29 01.9–.28 43.61S 172.86E 2 3.5L
¶601027376

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 07 42 24.3–.13 43.59S 172.79E 8–0 3.7L
¶603482796

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 07 42 48.9–.25 43.65S 172.84E 5–1 3.7L
¶16594442

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=90.0.
WEL VI 13 08 28 25.7–.14 43.59S 172.78E 7–0 4.0L
NEIC VI 13 08 28 25.2 43.59S 172.81E 9 4.0L **¶16594443**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt from Nelson to Canterbury, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 13 09 40 39.4–.14 43.58S 172.77E 8–0 3.6L
¶16613926

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 12 43 59.2–.07 43.59S 172.72E 7–0 3.8L
NEIC VI 13 12 43 58.8 43.59S 172.74E 9 3.8L **¶16594444**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
ISC VI 13 14 48 07.6–1.0 43.58S–.03 172.80E–.03 8–7 130 0-149
ISCJB VI 13 14 48 05.8–.53 43.65S–.03 172.87E–.03 13–4 3.8b **¶16594445**
IDC VI 13 14 48 06.8–1.6 43.33S 172.70E 0 4.2,4.0
NEIC VI 13 14 48 08.2 43.58S 172.73E 9 4.6L,4.0
WEL VI 13 14 48 08.7–.08 43.58S 172.72E 6–0 4.6L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.0km az=148.1.
IDC Error ellipse: s-maj=45.4km s-min=15.2km az=152.0.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt from Wellington to Otago, maximum reported intensity MM 6.
WEL VI 13 18 37 43.5–.10 43.60S 172.72E 10–0 3.5L
¶601027440

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 13 20 52 45.4–.14 43.60S 172.78E 9–0 3.9L
¶16594449

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
WEL VI 13 21 43 44.6–.14 43.59S 172.78E 6–0 3.2L
¶603731177

WEL Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0.
WEL VI 13 21 43 48.5–.14 43.60S 172.76E 8–0 3.6L
¶16613937

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 14 00 11 35.8–.17 43.62S 172.81E 5–0 3.5L
¶16614290

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
WEL VI 14 00 22 56.5–.09 43.60S 172.76E 10–0 4.2L
¶16614291

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6. CRLZ not around.
WEL VI 14 02 33 03.8–.24 43.64S 172.84E 6–0 3.6L
¶16614295

WEL Event type fe. Error ellipse: s-maj=2.0km s-min=0.8km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
WEL VI 14 04 08 16.0–.09 43.59S 172.75E 9–0 3.9L
NEIC VI 14 04 08 15.9 43.59S 172.75E 10 3.9L **¶16614301**
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.4km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
ISC VI 14 04 16 26.0–.89 43.52S–.03 171.20E–.03 12–6 4.2b,3.7s 105 0-153
ISCJB VI 14 04 16 25.4–.36 43.55S–.03 171.18E–.03 25–3 4.3b,3.9s **¶16596674**
WEL VI 14 04 16 25.9–.06 43.48S 171.15E 5 4.8L,3.9s
NEIC VI 14 04 16 25.9 43.48S 171.15E 5 4.8L,4.4W
IDC VI 14 04 16 25.0–1.2 43.50S 171.20E 0 4.1,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=2.8km az=139.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt from West Coast to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury and in the Greymouth-Hokitika area. After WEL. Moment Tensor Solution. s34 Moment tensor: Scale 10^{15}Nm; M_{rr}0.80 $M_{\theta\theta}$2.96 $M_{\phi\phi}$-3.76 $M_{r\theta}$-0.93 $M_{\theta\phi}$-3.82 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s339.00000°,δ78.00000°,λ1.00000°. NP2: ϕ_s249.00000°,δ89.00000°,λ168.00000°. Principal axes: T 4.7900,Plg9.0000°,Azm204.0000° ; N 0.8200,Plg78.0000°,Azm64.0000°; P -5.6100,Plg8.0000°,Azm295.0000° M_o5.20000×10^{15}
IDC Error ellipse: s-maj=48.4km s-min=33.3km az=33.0.
WEL VI 14 06 01 15.2–.26 43.58S 172.75E 8–1 3.0L
¶601027470

WEL Event type fe. Error ellipse: s-maj=3.0km s-min=1.2km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 14 07 54 15.7–.11 43.54S 172.74E 7–0 3.7L
¶603482797

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0.
WEL VI 14 07 55 14.5–.14 43.54S 172.75E 6–0 3.6L
¶16614303

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0.
WEL VI 14 09 41 55.7–.10 43.61S 172.76E 9–0 4.0L
NEIC VI 14 09 41 55.2 43.61S 172.81E 10 4.0L **¶16614304**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt from Canterbury to Southland, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 14 12 28 41.9–.17 43.64S 172.84E 6–0 3.6L
¶16614306

WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.6km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 4.
WEL VI 14 18 26 49.8–.42 43.63S 172.79E 4–1 3.5L
¶603482798

WEL Event type ke. Error ellipse: s-maj=4.0km s-min=1.5km az=90.0.
ISC VI 14 18 27 26.1–.45 43.42S–.04 172.88E–.03 13 4.7b,3.9s 169 0-154
BJI VI 14 18 27 19.0 44.44S 173.32E 5 5.7b,5.3b **¶16601814**
ISCJB VI 14 18 27 21.9–.36 43.69S–.04 172.98E–.04 10 4.7b,3.9s
WEL VI 14 18 27 24.2–.13 43.65S 172.84E 5 5.2L,3.9s
NEIC VI 14 18 27 26.8–.48 43.64S 172.93E 35 5.0b,4.8W
GCMT VI 14 18 27 26.8–.50 43.67S 172.85E 13–2 4.9W,4.8W
IDC VI 14 18 27 34.3–6.2 43.45S 172.66E 75–51 4.4,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=2.3km az=146.7.
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.5km az=90.0. Felt between West Coast, Otago and Canterbury, maximum reported intensity MM. 6.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=4.1km az=138.0. Felt at Christchurch. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}0.27 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.64 $M_{r\theta}$0.49 $M_{\theta\phi}$-0.70 $M_{\phi r}$-0.53 Best double couple: NP1:ϕ_s149.00000°,δ83.00000°,λ24.00000°. NP2:ϕ_s56.00000°,δ66.00000°,λ172.00000°. Principal axes: T 1.7700,Plg22.0000° ,Azm15.0000°; N 0.1100,Plg65.0000°,Azm165.0000°; P -1.8800,Plg11.0000°,Azm280.0000° M_o1.80000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c11; s68,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.27±.12 $M_{\theta\theta}$2.21±.12; $M_{\phi\phi}$-1.93±.10; $M_{r\theta}$0.25±.27; $M_{\theta\phi}$-0.83±.11; $M_{\phi r}$1.45±.44; Best double couple: NP1:ϕ_s142.00000°,δ70.00000° ,λ-22.00000°. NP2:ϕ_s240.00000°,δ69.00000°,λ-159.00000°. Principal axes: T 2.3710,Plg1.0000°,Azm191.0000°; N 0.5490,Plg61.0000°,Azm282.0000° ; P -2.9110,Plg29.0000°,Azm101.0000° M_o2.64100×10^{16}
IDC Error ellipse: s-maj=34.4km s-min=17.3km az=80.0.
ISC VI 14 18 32 01.6–1.2 43.62S–.05 172.90E–.05 6–8 42 0-154
NEIC VI 14 18 32 02.0 43.66S 172.87E 1 4.2L **¶16614315**
WEL VI 14 18 32 02.3–.18 43.65S 172.85E 6–0 4.2L
IDC VI 14 18 32 04.0–1.6 43.19S 172.89E 0 4.2,3.9
ISC Event type fe.
NEIC Event type fe. Felt in parts of Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=98.0km s-min=41.7km az=27.0.
WEL VI 14 20 44 58.4–.28 43.65S 172.85E 7–0 3.7L
¶16614317

WEL Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 14 21 41 41.9–.18 43.63S 172.82E 6–0 3.8L
¶16614319

WEL Event type fe. Error ellipse: s-maj=1.6km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
ISC VI 15 01 03 42.2–.71 43.69S–.04 172.92E–.04 10 4.6b,3.7s 107 0-154
ISCJB VI 15 01 03 40.3–.34 43.69S–.03 172.96E–.04 10 4.7b,3.7s **¶16614378**
IDC VI 15 01 03 41.7–1.4 43.74S 172.82E 0 4.8,4.6b
NEIC VI 15 01 03 41.9 43.66S 172.86E 5 4.7b,4.6L
WEL VI 15 01 03 42.1–.18 43.66S 172.86E 5 4.7L,4.6L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.4km az=140.2.
IDC Error ellipse: s-maj=92.4km s-min=34.3km az=23.0.
NEIC Event type fe. Felt in the Christchurch area. After WEL. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}-3.13 $M_{\theta\theta}$8.58 $M_{\phi\phi}$-5.45 $M_{r\theta}$0.66 $M_{\theta\phi}$-2.66 $M_{\phi r}$-1.55 Best double couple: NP1:ϕ_s323.00000°,δ77.00000°,λ-20.00000°. NP2:ϕ_s57.00000° ,δ71.00000°,λ-167.00000°. Principal axes: T 9.1400,Plg4.0000°,Azm11.0000° ; N -2.6100,Plg67.0000°,Azm111.0000°; P -6.5200,Plg23.0000°,Azm279.0000° M_o8.20000×10^{15}
WEL Event type fe. Error ellipse: s-maj=1.4km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 15 01 29 34.1–.14 43.65S 172.86E 8–0 4.1L
NEIC VI 15 01 29 34.1 43.65S 172.86E 8 4.1L **¶16614380**
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 15 02 27 08.6–.23 43.66S 172.87E 5 4.2L
NEIC VI 15 02 27 07.7 43.69S 172.92E 0 4.3L **¶16614382**
WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.9km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Christchurch area and on the Banks Peninsula. After WEL.
WEL VI 15 04 15 46.7–.28 43.65S 172.84E 8–0 3.6L
¶16614384

WEL Event type fe. Error ellipse: s-maj=2.4km s-min=1.2km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 15 07 56 53.5–.10 44.30S 168.18E 5 3.5L
¶16631883

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0.
WEL VI 15 09 37 50.4–.28 43.69S 172.89E 5 3.1L
¶601027548

WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=0.0.
WEL VI 15 10 01 54.8–.09 43.50S 171.15E 12 3.3L
¶601027550

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=90.0.
WEL VI 15 10 07 54.4–.08 43.59S 172.75E 5 4.0L
NEIC VI 15 10 07 54.4 43.59S 172.76E 5 4.0L **¶16614388**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
ISC VI 15 10 16 39.6–1.4 43.67S–.06 172.91E–.06 12–9 34 0-5
ISCJB VI 15 10 16 38.8–1.5 43.70S–.08 172.96E–.10 9–9 **¶16614389**
NEIC VI 15 10 16 40.8 43.63S 172.83E 6 3.8L
WEL VI 15 10 16 41.0–.25 43.62S 172.83E 5 3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=6.9km az=140.2.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL Event type fe. Error ellipse: s-maj=2.1km s-min=0.9km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
WEL VI 15 12 32 09.6–.10 43.57S 172.81E 8–0 3.5L
¶601027557

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt from Taranaki to Canterbury, maximum reported intensity MM 4.
WEL VI 15 13 12 43.5–.16 43.58S 172.79E 6–0 3.5L
¶16614391

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=0.7km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
WEL VI 15 17 16 02.8–.08 43.63S 172.42E 13–1 3.6L
¶16614398

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
WEL VI 16 01 30 55.7–.13 43.59S 172.79E 8–0 3.8L
NEIC VI 16 01 30 55.6 43.59S 172.79E 9 3.8L **¶16614529**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 16 03 38 28.1–.11 43.53S 172.74E 7–0 3.5L
¶601027585

WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 16 09 29 48.8–.25 43.66S 172.82E 8–0 3.7L
¶16614737

WEL Event type fe. Error ellipse: s-maj=2.1km s-min=1.1km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 5.
WEL VI 16 15 41 26.9–.08 43.59S 172.73E 8–0 3.5L
¶16628211

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC VI 16 18 37 25.8–1.2 43.60S–.04 172.83E–.04 13–7 176 0-149
ISCJB VI 16 18 37 24.3–.61 43.67S–.03 172.94E–.03 15–5 4.0b,3.3s **¶16628213**
IDC VI 16 18 37 25.6–1.4 43.39S 172.72E 0 4.3,4.1
WEL VI 16 18 37 27.3–.11 43.60S 172.74E 10–0 4.5L,4.1
NEIC VI 16 18 37 27.3 43.59S 172.79E 5 4.4L,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=2.9km az=147.7.
IDC Error ellipse: s-maj=46.0km s-min=15.0km az=158.0.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in the Christchurch area. After WEL.
ISC VI 17 02 39 11.3–.83 43.57S–.03 172.77E–.04 15–5 4.3s,4.0b 102 0-153
ISCJB VI 17 02 39 09.7–.48 43.60S–.03 172.83E–.04 15–3 4.3b,4.0s **¶16631888**
NEIC VI 17 02 39 11.5 43.53S 172.76E 6 4.4L,4.2W
WEL VI 17 02 39 11.7–.08 43.53S 172.75E 5–0 4.4L,4.2W
IDC VI 17 02 39 11.4–1.4 43.23S 172.60E 0 4.2,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.1km az=42.3.
NEIC Event type fe. Felt in the Christchurch area. After WEL. Moment Tensor Solution. s24 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.35 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$0.43 $M_{r\theta}$0.67 $M_{\theta\phi}$-2.47 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s274.00000°,δ82.00000°,λ-164.00000°. NP2:ϕ_s182.00000° ,δ74.00000°,λ-9.00000°. Principal axes: T 2.6900,Plg5.0000°,Azm47.0000° ; N -0.1700,Plg72.0000°,Azm301.0000°; P -2.5200,Plg17.0000°,Azm139.0000° M_o2.60000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
IDC Error ellipse: s-maj=43.2km s-min=13.7km az=149.0.
ISC VI 17 04 21 56.1–1.0 43.62S–.04 172.88E–.04 13–6 120 0-153
IDC VI 17 04 21 55.4–1.3 43.42S 172.83E 0 4.4,4.1 **¶16628221**
WEL VI 17 04 21 57.6–.08 43.61S 172.77E 9–0 4.6L,4.1
NEIC VI 17 04 21 57.6 43.60S 172.77E 8 4.5L,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=45.3km s-min=25.5km az=160.0.
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 17 04 39 15.0–.14 43.60S 172.77E 8–0 3.8L
NEIC VI 17 04 39 14.9 43.60S 172.78E 8 3.9L **¶16628222**
WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt at Christchurch. After WEL.
ISC VI 17 18 50 50.2–1.0 43.64S–.04 172.81E–.03 12–6 128 0-149
ISCJB VI 17 18 50 48.5–.59 43.65S–.03 172.94E–.04 14–4 3.7b **¶16631890**
WEL VI 17 18 50 51.0–.13 43.58S 172.81E 6–0 4.5L
IDC VI 17 18 50 50.8–1.6 43.23S 172.56E 0 4.1,3.9
NEIC VI 17 18 50 51.3 43.58S 172.78E 6 4.5L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.0km az=140.4.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=44.6km s-min=15.0km az=148.0.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 18 07 12 15.1–.10 43.56S 172.74E 8–0 3.7L
¶16631897

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 18 08 27 09.7–.22 43.68S 172.88E 5 4.0L
NEIC VI 18 08 27 10.0 43.67S 172.86E 7 4.0L **¶16631898**
WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type se. After WEL.
WEL VI 18 10 13 32.6–.11 43.55S 172.73E 8–0 3.6L
¶16640749

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 18 19 26 34.3–.16 43.55S 172.92E 7–0 3.6L
¶16633275

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 19 03 16 37.2–.09 44.53S 168.39E 5 4.5L
NEIC VI 19 03 16 37.1 44.53S 168.37E 5 4.5L **¶16633277**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from West Coast to Southland, and from Fiordland to Otago, maximum. reported intensity MM 5.
NEIC Event type fe. Felt in the Queenstown area. After WEL.
WEL VI 19 07 17 47.1–.07 43.61S 172.40E 9–0 4.2L
NEIC VI 19 07 17 47.1 43.61S 172.40E 8 4.2L **¶16633279**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt at Christchurch. After WEL.
WEL VI 19 11 00 57.6–.33 43.58S 172.82E 8–1 3.5L
¶16633280

WEL Event type fe. Error ellipse: s-maj=3.2km s-min=1.4km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 19 13 03 50.5–.22 43.65S 172.84E 7–0 4.2L
NEIC VI 19 13 03 50.1 43.66S 172.86E 8 4.2L **¶16633281**
WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt on the Banks Peninsula and at Christchurch. After WEL.
WEL VI 19 13 10 25.9–.12 43.60S 172.73E 10–0 3.5L
¶601027696

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 20 11 21 01.1–.09 43.55S 172.30E 10–1 3.7L
¶16638802

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 20 17 27 47.9–.12 43.60S 172.52E 10–1 3.6L
¶16640759

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
ISC VI 21 07 35 04.4–.76 43.71S–.04 171.86E–.04 16 78 0-149
ISCJB VI 21 07 35 03.3–.34 43.79S–.04 171.96E–.04 16 3.7b **¶16640768**
IDC VI 21 07 35 04.4–1.6 43.65S 171.83E 0 4.1,3.8b
WEL VI 21 07 35 06.2–.07 43.70S 171.77E 12 4.3L,3.8b
NEIC VI 21 07 35 06.2 43.70S 171.75E 12 4.3L,3.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=2.9km az=143.1.
IDC Error ellipse: s-maj=58.2km s-min=12.2km az=171.0.
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt from West Coast to Canterbury, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
ISC VI 21 10 34 23.0–.68 43.63S–.02 172.61E–.02 10–4 5.2b,4.5s 355 0-169
ISCJB VI 21 10 34 19.5–.23 43.69S–.02 172.78E–.02 10 5.0b,4.5s **¶16638998**
BJI VI 21 10 34 20.7 43.56S 172.88E 10 5.4b,5.4b
IDC VI 21 10 34 20.8–.58 43.68S 172.63E 0 5.1,5.0b
NEIC VI 21 10 34 23.0 43.60S 172.53E 8 5.4L,5.2b
WEL VI 21 10 34 23.0–.06 43.60S 172.52E 9–0 5.4L,5.2b
GCMT VI 21 10 34 23.0–.20 43.61S 172.44E 12 5.2W,5.2b
MOS VI 21 10 34 27.2–2.1 43.48S 172.15E 33 5.0b,4.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=1.8km az=145.8.
IDC Error ellipse: s-maj=20.8km s-min=11.8km az=178.0.
NEIC Event type fe. Felt [VII] at Hornby and [VI] at Christchurch. Felt throughout Canterbury, in much of West Coast and as far as Palmerston North and the Invercargill area. After WEL. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}0.60 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.76 $M_{\theta\phi}$-6.58 $M_{\phi r}$-1.04 Best double couple: NP1:ϕ_s180.00000°,δ75.00000°,λ10.00000°. NP2:ϕ_s87.00000°,δ80.00000°,λ165.00000°. Principal axes: T 6.9200,Plg18.0000° ,Azm43.0000°; N 0.0000,Plg72.0000°,Azm236.0000°; P -6.9200,Plg4.0000°,Azm134.0000° M_o6.90000×10^{16}
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt from Manawatu to Southland, maximum reported intensity MM 8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c75; s103,c170; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.15±.15 $M_{\theta\theta}$-0.23±.15; $M_{\phi\phi}$-0.92±.15; $M_{r\theta}$0.15±.38; $M_{\theta\phi}$-6.81±.11; $M_{\phi r}$1.54±.40; Best double couple: NP1:ϕ_s359.00000°,δ88.00000° ,λ13.00000°. NP2:ϕ_s269.00000°,δ77.00000°,λ178.00000°. Principal axes: T 6.4180,Plg10.0000°,Azm224.0000°; N 1.1480,Plg77.0000°,Azm6.0000° ; P -7.5670,Plg8.0000°,Azm133.0000° M_o6.99300×10^{16}
MOS Error ellipse: s-maj=22.2km s-min=15.4km az=44.7.
WEL VI 21 10 37 58.2–.10 43.60S 172.54E 8–1 3.5L
¶603731179

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=90.0.
WEL VI 21 10 38 05.5–.08 43.60S 172.53E 7–0 4.4L
NEIC VI 21 10 38 05.4 43.60S 172.51E 5 4.7L **¶16646149**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt [V] in Canterbury. After WEL.
WEL VI 21 10 57 02.0–.09 43.60S 172.51E 7–1 3.5L
¶16640770

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 21 11 09 33.9–.06 43.59S 172.53E 5 3.6L
¶16640772

WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 21 13 34 28.4–.20 43.61S 172.78E 7–0 3.5L
¶601027758

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 21 14 25 58.7–.19 43.57S 172.92E 5 3.8L
¶16646151

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.1km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC VI 21 15 28 07.9–.77 43.62S–.04 172.56E–.04 18–4 110 0-149
ISCJB VI 21 15 28 06.8–.44 43.69S–.04 172.68E–.05 20–3 3.9s,3.6b **¶16643038**
NEIC VI 21 15 28 08.6 43.60S 172.48E 5 4.5L,4.1W
WEL VI 21 15 28 08.7–.07 43.60S 172.53E 9–0 4.5L,4.1W
IDC VI 21 15 28 09.1–1.7 43.13S 172.33E 0 4.1,4.1s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=3.3km az=135.1.
NEIC Event type fe. Felt in Canterbury. After WEL. Moment Tensor Solution. s15 Moment tensor: Scale 10^{15}Nm; M_{rr}0.07 $M_{\theta\theta}$1.09 $M_{\phi\phi}$-1.16 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.06 Best double couple: NP1: ϕ_s155.00000°,δ75.00000°,λ5.00000°. NP2:ϕ_s64.00000°,δ85.00000°,λ165.00000°. Principal axes: T 1.4900,Plg14.0000°,Azm18.0000°; N 0.0000,Plg74.0000°,Azm226.0000° ; P -1.5000,Plg7.0000°,Azm110.0000° M_o1.50000×10^{15}
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
IDC Error ellipse: s-maj=51.8km s-min=37.0km az=169.0.
WEL VI 21 15 37 47.0–.09 43.60S 172.52E 8–1 3.5L
¶16646152

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 21 15 52 14.8–.09 43.60S 172.53E 7–0 4.0L
NEIC VI 21 15 52 10.8 43.85S 172.67E 5 4.0L **¶16646153**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 21 16 36 31.1–.13 43.60S 172.74E 7–0 2.8L
¶601027769

WEL Event type fe. Error ellipse: s-maj=1.3km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 21 17 16 57.3–.23 43.58S 172.53E 10–2 3.9L
¶16646154

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.2km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 21 17 20 14.0–.30 43.59S 172.65E 5 3.6L
¶601027770

WEL Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=90.0.
WEL VI 21 20 33 03.2–.09 43.60S 172.52E 8–1 3.8L
¶16646155

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 22 00 35 38.0–.06 43.59S 172.52E 9–0 3.5L
¶601027780

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 22 03 19 40.2–.07 43.57S 172.42E 9–1 3.5L
¶601027787

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.7km az=0.0. Felt from Canterbury to Otago, maximum reported intensity MM 4.
WEL VI 22 08 26 57.8–.11 43.51S 172.16E 10–1 3.8L
NEIC VI 22 08 26 57.5 43.50S 172.16E 5 3.8L **¶16646156**

WEL Event type fe. Error ellipse: s-maj=1.2km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 22 14 35 26.9–.06 43.60S 172.53E 10–0 3.7L
¶16646157

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.5km az=90.0. Felt from Wellington to Canterbury, maximum reported intensity MM 4.
WEL VI 23 19 59 50.1–.17 43.57S 172.78E 5 3.6L
¶16681158

WEL Event type fe. Error ellipse: s-maj=1.7km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 24 04 20 26.1–.10 42.25S 172.80E 12 3.5L
¶16681161

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=90.0.
WEL VI 24 04 49 51.1–.10 43.53S 172.76E 6–0 4.2L
NEIC VI 24 04 49 49.5 43.52S 172.79E 19 4.2L **¶16681162**
WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 6.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 24 09 30 56.9–.35 43.66S 172.87E 5 3.9L
NEIC VI 24 09 30 53.9 43.66S 172.98E 2 4.0L **¶16681167**
WEL Event type fe. Error ellipse: s-maj=2.7km s-min=1.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 24 11 22 56.7–.09 43.59S 172.50E 6–0 3.6L
¶16681169

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 24 21 35 49.1–.08 43.59S 172.69E 10–0 3.7L
¶16681348

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 25 00 30 26.6–.07 43.60S 172.53E 6–0 4.1L
NEIC VI 25 00 30 26.5 43.60S 172.52E 5 4.1L **¶16681350**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt from Canterbury to Otago, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL VI 25 04 35 11.7–.08 43.63S 172.40E 8–1 3.7L
NEIC VI 25 04 35 11.4 43.65S 172.40E 12 3.8L **¶16681354**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type fe. Felt in Canterbury. After WEL.
WEL VI 25 05 34 25.1–.24 43.72S 172.92E 5 3.6L
¶16681355

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.7km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 25 05 43 19.7–.06 43.59S 172.53E 5 3.5L
¶16681357

WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 25 18 23 32.4–.21 41.32S 172.38E 5 3.7L
¶16682694

WEL Event type fe. Error ellipse: s-maj=1.9km s-min=1.2km az=90.0. Felt from Nelson to West Coast, maximum reported intensity MM 5.
WEL VI 26 02 55 10.5–.04 43.59S 172.59E 2 3.5L
¶16682701

WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.3km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC VI 26 13 20 40.9–1.0 43.53S–.04 172.88E–.04 9–7 145 0-153
ISCJB VI 26 13 20 39.6–.68 43.60S–.04 172.94E–.05 13–4 3.8b **¶16683819**
IDC VI 26 13 20 40.6–1.4 43.41S 172.85E 0 4.2,4.1L
NEIC VI 26 13 20 41.9 43.51S 172.80E 5 4.4L,4.1L
WEL VI 26 13 20 42.2–.11 43.51S 172.76E 6–0 4.4L,4.1L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=3.4km az=136.3.
IDC Error ellipse: s-maj=46.9km s-min=26.6km az=159.0.
NEIC Event type fe. Felt widely in Canterbury. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
WEL VI 28 00 37 04.7–.49 43.66S 172.78E 5 3.5L
¶601027978

WEL Event type fe. Error ellipse: s-maj=4.4km s-min=1.9km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 28 14 27 20.1–.12 43.61S 172.76E 9–0 4.1L
NEIC VI 28 14 27 19.9 43.60S 172.78E 10 4.1L **¶16685963**
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.
NEIC Event type se. After WEL.
WEL VI 28 14 30 47.4–.22 43.61S 172.81E 10–1 3.7L
¶16685964

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 28 23 46 48.3–.13 43.60S 172.75E 8–0 3.5L
¶16685973

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 29 04 48 08.1–.10 43.57S 172.79E 7–0 3.6L
¶16685975

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
WEL VI 29 06 03 06.8–.08 43.54S 172.16E 9–0 3.7L
¶16685976

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.6km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
ISC VI 29 07 43 45.7–1.0 43.50S–.03 170.27E–.02 10–8 86 0-148
IDC VI 29 07 43 44.0–1.1 43.80S 170.13E 0 3.7,3.6 **¶16685978**
ISCJB VI 29 07 43 45.1–.58 43.50S–.03 170.24E–.04 8–5 3.4b,3.6
NEIC VI 29 07 43 45.7 43.48S 170.28E 5 4.1L,3.6
WEL VI 29 07 43 45.8–.09 43.49S 170.27E 5 4.0L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=8.9km az=177.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=145.0.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.9km az=0.0. Felt in the West Coast region, maximum reported intensity MM 4.
WEL VI 29 21 39 36.7–.06 43.60S 172.53E 5 3.5L
NEIC VI 29 21 39 36.4 43.60S 172.50E 2 3.9L **¶16947404**
WEL Event type fe. Error ellipse: s-maj=0.6km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 4.
NEIC Event type fe. Felt [IV] at Christchurch, Halswell and Hornby. After WEL.
WEL VI 30 19 47 49.8–.10 43.58S 172.79E 7–0 3.5L
¶16704509

WEL Event type fe. Error ellipse: s-maj=0.9km s-min=0.5km az=90.0. Felt in the Canterbury region, maximum reported intensity MM 5.

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WEL I 18 15 05 12.3–.33 40.12S 173.72E 174–2 3.5L
¶600662105

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.3km az=90.0.
ISC I 22 15 25 58.7–.83 41.41S–.03 174.21E–.03 50–5 4.2b 165 0-152
IDC I 22 15 25 51.7–1.1 41.11S 174.37E 0 4.3,4.1b **¶15959226**
ISCJB I 22 15 25 57.9–.26 41.47S–.03 174.22E–.03 61–4 3.9b,4.1b
NEIC I 22 15 25 60.0 41.36S 174.21E 43 4.4L,4.1b
WEL I 22 15 25 59.8–.07 41.33S 174.18E 43–0 4.4L,4.1b
ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=28.5km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.0km az=140.7.
NEIC Event type se. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0. Felt from Whanganui to Marlborough, and from Nelson to Manawatu, maximum. reported intensity MM 5.
WEL II 18 04 51 53.8–.06 41.38S 174.64E 22–0 4.0L

NEIC II 18 04 51 53.7 41.38S 174.64E 23 3.9L **¶16031876**
WEL Event type fe. Error ellipse: s-maj=0.7km s-min=0.6km az=0.0. Felt from Wairarapa to Marlborough, maximum reported intensity MM 5.
NEIC Event type fe. Felt in the Wellington area. After WEL.
WEL II 18 21 43 09.2–.06 41.01S 174.78E 35–1 3.8L
NEIC II 18 21 43 09.2 41.01S 174.78E 35 3.8L **¶16056970**
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.7km az=90.0. Felt in the Wellington region, maximum reported intensity MM 4.
NEIC Event type fe. Felt along the Kapiti Coast. After WEL.
ISC III 01 09 07 50.5–.80 41.29S–.03 174.62E–.03 48–5 4.0b 210 0-152
IDC III 01 09 07 43.6–1.0 40.94S 174.61E 0 4.3,4.1b **¶16168326**
ISCJB III 01 09 07 48.8–.27 41.37S–.03 174.69E–.04 68–4 4.0b,4.1b
NEIC III 01 09 07 51.2 41.20S 174.56E 41 4.5L,4.1b
WEL III 01 09 07 51.1–.04 41.20S 174.56E 41–0 4.5L,4.1b
ISC Event type fe.
IDC Error ellipse: s-maj=42.3km s-min=27.2km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.1km az=41.2.
NEIC Event type fe. Felt [IV] in the Wellington area. Felt widely in the Nelson-Masterton-Wanganui area. After WEL.
WEL Event type fe. Error ellipse: s-maj=0.5km s-min=0.4km az=0.0. Felt from Whanganui to Marlborough, and from Nelson to Hawke''s Bay, maximum. reported intensity MM 5.
WEL III 06 10 01 45.4–.10 41.58S 174.01E 12 3.1L
¶603310063

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=1.0km az=0.0.
WEL III 06 15 10 52.5–.09 41.57S 174.02E 12 3.5L
¶600710772

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0. Felt from Wellington to Nelson, maximum reported intensity MM 4.
WEL III 13 01 15 06.5–.13 41.72S 174.17E 16–1 3.5L
¶600711369

WEL Event type fe. Error ellipse: s-maj=1.5km s-min=1.4km az=90.0. Felt from Wellington to Marlborough, maximum reported intensity MM 4.
ISC III 24 14 43 50.7–.87 40.70S–.03 174.10E–.03 83–6 221 0-152
IDC III 24 14 43 49.2–2.2 40.66S 174.14E 63–23 3.7,3.6 **¶16359644**
ISCJB III 24 14 43 49.7–.26 40.72S–.02 174.13E–.04 97–4 3.7b,3.6
NEIC III 24 14 43 52.0 40.68S 174.12E 72 4.1L,3.6
WEL III 24 14 43 52.1–.14 40.69S 174.13E 71–2 4.1L,3.6
ISC Event type fe.
IDC Error ellipse: s-maj=29.5km s-min=15.9km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.8km az=34.7.
NEIC Event type fe. Felt at Waitara and Waverley. After WEL.
WEL Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=90.0. Felt from Taranaki to Marlborough, and from Nelson to Manawatu, maximum. reported intensity MM 4.
WEL III 30 09 26 31.0–.28 40.40S 173.44E 167–2 3.9L
¶16399957

WEL Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=90.0.
WEL IV 07 22 43 39.4–.28 40.18S 173.66E 145–2 3.5L
¶601003593

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=90.0.
WEL IV 19 01 31 44.6–.15 40.13S 174.89E 26–2 2.5L
¶601003925

WEL Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=90.0.
WEL IV 19 09 01 30.2–.10 41.09S 174.52E 48–1 3.5L
¶602945440

WEL Event type fe. Error ellipse: s-maj=1.0km s-min=1.0km az=0.0. Felt from Wellington to Nelson, maximum reported intensity MM 4.
WEL IV 19 09 02 20.4–.08 41.06S 174.52E 44–1 3.4L
¶16448792

WEL Event type ke. Error ellipse: s-maj=1.0km s-min=0.9km az=0.0.
WEL IV 23 00 27 58.6–.42 40.13S 173.57E 191–3 3.5L
¶601004060

WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.6km az=90.0.
ISC IV 23 10 13 39.0–.96 41.85S–.03 174.10E–.03 17–6 3.4b 86 0-40
IDC IV 23 10 13 38.3–1.6 41.51S 173.88E 0 3.7,3.6 **¶16452562**
ISCJB IV 23 10 13 39.1–.43 41.88S–.04 174.11E–.04 22–4 3.5b,3.6
WEL IV 23 10 13 39.7–.12 41.84S 174.09E 16–1 3.8L,3.6
NEIC IV 23 10 13 39.9 41.82S 174.10E 16 3.9L,3.6
ISC Event type fe.
IDC Error ellipse: s-maj=34.2km s-min=27.8km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.0km az=155.9.
WEL Event type fe. Error ellipse: s-maj=1.2km s-min=1.0km az=0.0. Felt between Wellington, Marlborough and Nelson, maximum reported intensity. MM 5.
NEIC Event type fe. Felt at Marlborough. After WEL.
ISC IV 23 11 07 29.3–.77 40.72S–.03 174.22E–.03 83–5 4.3b 271 0-152
IDC IV 23 11 07 26.6–1.3 40.73S 174.24E 52–14 4.1,4.1 **¶16452564**
ISCJB IV 23 11 07 27.3–.26 40.76S–.02 174.26E–.04 110–4 4.1b,4.1
WEL IV 23 11 07 30.6–.10 40.69S 174.24E 71–1 4.3L,4.1
NEIC IV 23 11 07 30.5 40.70S 174.23E 73 4.3L,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=28.8km s-min=8.4km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=2.7km az=32.1.
WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Waikato to Nelson, maximum reported intensity MM 5.
NEIC Event type fe. Felt from Wanganui to Nelson. After WEL.
WEL IV 24 18 45 09.2–.25 40.51S 173.43E 164–2 3.7L
¶16456745

WEL Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=90.0.
WEL IV 25 03 44 43.5–.17 40.76S 173.37E 151–1 3.7L
¶16460252

WEL Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=90.0.
WEL V 04 14 32 23.8–.21 40.51S 173.34E 148–2 3.6L
¶16497676

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=90.0.
WEL V 10 12 11 57.8–.15 40.52S 174.55E 57–3 2.8L
¶601004750

WEL Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=90.0.
WEL V 10 20 13 13.0–.31 40.61S 173.21E 187–2 3.5L
¶601004766

WEL Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=0.0.
WEL V 11 02 42 33.6–.11 40.84S 174.58E 74–1 3.2L
¶601004785

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=90.0.
WEL V 22 14 36 48.8–.09 40.95S 174.98E 64–1 3.6L
¶16534859

WEL Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0.
WEL V 29 21 15 32.7–.34 40.32S 173.42E 200–3 4.0L
NEIC V 29 21 15 32.3 40.32S 173.40E 202 4.0 **¶16551545**
WEL Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=90.0.
NEIC Event type se. After WEL.
WEL VI 03 04 48 51.0–.36 40.48S 173.41E 161–3 3.5L
¶601026888

WEL Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=0.0.
WEL VI 06 16 50 02.5–.34 40.02S 173.83E 173–2 3.5L
¶16578069

WEL Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=90.0.
WEL VI 10 18 15 23.7–.30 40.45S 173.32E 182–2 3.6L
¶16590032

WEL Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=90.0.
WEL VI 21 08 13 05.8–.06 41.04S 174.85E 33 3.5L
¶601027736

WEL Event type fe. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0. Felt from Wellington to Marlborough, maximum reported intensity MM 5.

(164) Off east coast of South Island.

WEL II 15 06 01 29.4–.14 42.17S 174.05E 12 3.6L
¶16027432

WEL Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=90.0. Felt in the Marlborough region, maximum reported intensity MM 4.
ISC IV 07 07 16 14.4–2.0 42.26S–.04 177.59E–.05 25–13 5.0b,4.0s 378 2-177
IDC IV 07 07 16 10.0–.48 42.18S 177.68E 0 5.7L,4.8 **¶16413299**
GCMT IV 07 07 16 11.2–.50 42.20S 177.92E 28–0 4.9W,4.8

NEIC IV 07 07 16 11.2–.25 42.24S 177.64E 10 5.2L,5.1b
BJI IV 07 07 16 12.3 42.20S 177.50E 14 5.7b,5.6b
ISCJB IV 07 07 16 13.0–.29 42.23S–.02 177.49E–.03 33 5.0b,4.1s
MOS IV 07 07 16 13.8–1.5 42.25S 177.49E 30 5.0b,4.1s
WEL IV 07 07 16 15.7–.23 42.22S 177.43E 33 5.2L,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=16.3km az=45.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s55,c68; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.11±.18 $M_{\theta\theta}$2.32±.14; $M_{\phi\phi}$0.79±.10; $M_{r\theta}$-0.54±.19; $M_{\theta\phi}$0.69±.10; $M_{\phi r}$-0.72±.16; Best double couple: NP1:ϕ_s61.00000°,δ53.00000°,λ-98.00000°. NP2:ϕ_s255.00000°,δ38.00000°,λ-79.00000°. Principal axes: T 2.6920,Plg8.0000°,Azm157.0000°; N 0.5780,Plg7.0000°,Azm66.0000°; P -3.2690,Plg80.0000°,Azm295.0000° $M_0$2.98000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.5km az=106.0. Felt at Wellington. Moment Tensor Solution. s26 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.44 $M_{\theta\theta}$0.84 $M_{\phi\phi}$0.60 $M_{r\theta}$-0.13 $M_{\theta\phi}$0.30 $M_{\phi r}$-0.11 Best double couple: NP1:ϕ_s236.00000°,δ41.00000°,λ-89.00000°. NP2:ϕ_s55.00000°,δ49.00000°,λ-91.00000°. Principal axes: T 1.0500,Plg4.0000°,Azm146.0000°; N 0.4000,Plg0.0000°,Azm56.0000°; P -1.4500,Plg86.0000°,Azm319.0000° $M_0$1.30000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=25.2.
MOS Error ellipse: s-maj=21.9km s-min=12.7km az=129.1.
WEL Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=90.0. Felt from Taupo to Canterbury, maximum reported intensity MM 4.
WEL IV 07 07 38 03.6–.37 42.14S 177.45E 33 3.7L ¶16414394
WEL Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=90.0.
ISC IV 13 00 40 51.8–1.4 42.46S–.04 174.59E–.03 3–10 92 1-150
IDC IV 13 00 40 51.6–1.6 42.25S 174.47E 0 3.8,3.6 **¶16423578**
WEL IV 13 00 40 55.9–.18 42.41S 174.56E 33 3.9L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=45.5km s-min=25.9km az=137.0.
WEL Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=90.0.
WEL V 28 16 42 00.2–.41 43.13S 176.12E 33 3.5L ¶601006218
WEL Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=90.0.
WEL VI 19 03 51 50.1–.20 42.41S 174.65E 33 3.6L ¶16633278
WEL Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=0.0.

(165) North of Macquarie Island.

ISC IV 27 15 18 21.6–.83 51.4S–.10 152.1E–.10 35 4.2b,3.7s 15 5-149
IDC IV 27 15 18 15.5–1.8 51.56S 152.04E 0 4.3,4.2L **¶16546323**
NEIC IV 27 15 18 17.9–.64 51.43S 151.94E 10 4.6b,4.2L
ISCJB IV 27 15 18 19.4–.76 51.38S–.10 152.1E–.10 33 4.2b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(166) Auckland Islands region.

ISC I 14 06 48 57.5–.44 49.42S–.06 163.95E–.06 15 5.0b,4.3s 121 4-161
BJI I 14 06 48 52.8 49.89S 164.20E 10 5.6b,5.5b **¶15925989**
IDC I 14 06 48 55.3–.64 49.25S 163.95E 0 4.8,4.6
ISCJB I 14 06 48 56.3–.37 49.32S–.05 163.94E–.06 15 5.0b,4.3s
GCMT I 14 06 48 58.8–.20 49.54S 163.47E 12 5.0W,4.3s
NEIC I 14 06 48 58.8–2.5 49.35S 163.83E 23–17 5.0b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=15.9km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=3.4km az=145.8.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c43; s85,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.12 $M_{\theta\theta}$4.46±.11; $M_{\phi\phi}$-3.29±.10; $M_{r\theta}$0.50±.35; $M_{\theta\phi}$-2.27±.10; $M_{\phi r}$-0.36±.31; Best double couple: NP1:ϕ_s150.00000°,δ90.00000°,λ7.00000°. NP2:ϕ_s60.00000°,δ83.00000°,λ180.00000°. Principal axes: T 5.1300,Plg5.0000°,Azm15.0000°; N -1.2060,Plg83.0000°,Azm154.0000°; P -3.9240,Plg5.0000°,Azm285.0000° $M_0$4.52700×10^{16}
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.3km az=183.0.
ISC III 04 12 32 24.1–1.6 49.65S–.06 164.03E–.05 5–8 4.8b,4.5s 180 4-161
ISCJB III 04 12 32 22.5–.46 49.65S–.06 164.08E–.05 10 4.9b,4.3s **¶16461109**
BJI III 04 12 32 23.3 50.15S 163.46E 9 5.3b,5.2b
IDC III 04 12 32 23.6–.59 49.43S 164.06E 0 4.8,4.7
NEIC III 04 12 32 24.5–.32 49.64S 164.00E 10 4.8b,4.7
GCMT III 04 12 32 24.5–.20 49.71S 163.50E 12 5.1W,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=3.4km az=153.6.
IDC Error ellipse: s-maj=24.6km s-min=17.0km az=60.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=4.7km az=148.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c79; s98,c142; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.16±.14 $M_{\theta\theta}$6.66±.12; $M_{\phi\phi}$-5.50±.12; $M_{r\theta}$0.75±.34; $M_{\theta\phi}$-0.41±.13; $M_{\phi r}$-0.60±.34; Best double couple: NP1:ϕ_s317.00000°,δ89.00000°,λ-9.00000°. NP2:ϕ_s47.00000°,δ81.00000°,λ-179.00000°. Principal axes: T 6.7480,Plg6.0000°,Azm2.0000°; N -1.1590,Plg81.0000°,Azm128.0000°; P -5.5900,Plg7.0000°,Azm271.0000° $M_0$6.16900×10^{16}
ISC III 04 15 46 13.7–.59 49.69S–.06 164.12E–.05 19–1 5.0b,4.7s 203 4-167
BJI III 04 15 46 11.1 49.51S 164.57E 16 5.4b,5.2b **¶16196357**
ISCJB III 04 15 46 11.7–1.3 49.72S–.05 164.09E–.05 25–9 5.0b,4.7s
NEIC III 04 15 46 12.6–.41 49.54S 163.79E 10 5.0b,4.7s
GCMT III 04 15 46 12.6–.10 49.82S 163.35E 14–1 5.3W,4.7s
IDC III 04 15 46 12.2–.59 49.30S 163.85E 0 4.8,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=4.8km az=155.1.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.1km az=148.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c140; s103,c166; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.18±.02 $M_{\theta\theta}$1.23±.02; $M_{\phi\phi}$-1.06±.02; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$-0.17±.02; $M_{\phi r}$-0.08±.04; Best double couple: NP1:ϕ_s319.00000°,δ89.00000°,λ-5.00000°. NP2:ϕ_s49.00000°,δ85.00000°,λ-179.00000°. Principal axes: T 1.2470,Plg3.0000°,Azm4.0000°; N -0.1750,Plg84.0000°,Azm129.0000°; P -1.0780,Plg5.0000°,Azm274.0000° $M_0$1.16300×10^{17}
IDC Error ellipse: s-maj=24.1km s-min=20.5km az=48.0.
ISC III 18 15 44 48.6–1.6 49.6S–.20 163.4E–.10 35 4.3b,3.7s 23 4-120
IDC III 18 15 44 47.6–2.0 48.89S 163.07E 0 4.4,4.2 **¶17197047**
ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=28.9km az=174.0.
ISC III 21 05 16 40.1–1.2 49.9S–.20 163.8E–.10 35 4.0b 23 4-154
IDC III 21 05 16 35.0–1.9 49.84S 163.84E 0 4.0,3.8 **¶17197634**
ISCJB III 21 05 16 39.1–1.4 49.8S–.20 163.8E–.20 33 3.8b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 02 54 21.5–1.0 49.4S–.20 164.2E–.10 35 3.9b 32 4-154
IDC IV 08 02 54 16.4–1.3 49.30S 164.01E 0 4.1,3.9 **¶16529575**
ISCJB IV 08 02 54 18.6–1.7 49.4S–.20 164.2E–.20 33 3.9b,3.3s
NEIC IV 08 02 54 21.3–9.6 49.20S 164.07E 32–62 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=46.7km s-min=29.5km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=33.4km s-min=6.9km az=153.7.
NEIC Event type se. Error ellipse: s-maj=50.6km s-min=12.5km az=190.0.

(167) Macquarie Island region.

IDC III 09 02 22 33.1–5.2 56.76S 157.19E 0 4.2,4.1 ¶17193505
IDC Error ellipse: s-maj=229.7km s-min=27.2km az=76.0.
ISC IV 01 12 47 03.0–.87 60.27S–.09 160.4E–.20 10 4.6b,4.4s 18 6-150
ISCJB IV 01 12 47 00.2–.57 60.37S–.06 160.4E–.30 10 4.8b,4.3s **¶16577629**
IDC IV 01 12 47 02.7–1.7 60.76S 158.35E 0 4.5b,4.5
NEIC IV 01 12 47 03.2–.63 60.49S 159.64E 10 4.8b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=8.4km az=4.0.
IDC Error ellipse: s-maj=82.5km s-min=33.3km az=65.0.
NEIC Event type se. Error ellipse: s-maj=22.9km s-min=10.3km az=86.0.
ISC V 23 20 47 06.3–.79 57.68S–.10 157.8E–.10 10 4.2b,3.7s 20 3-158
ISCJB V 23 20 47 04.1–.61 57.74S–.07 157.9E–.20 10 4.1b,3.6s **¶16545183**
IDC V 23 20 47 05.1–1.3 57.69S 157.66E 0 4.2,4.1
NEIC V 23 20 47 06.1–.72 57.75S 157.66E 10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=9.0km az=22.6.
IDC Error ellipse: s-maj=31.7km s-min=20.9km az=138.0.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=12.9km az=106.0.

SEISMIC REGION 12.
Kermadec-Tonga-Samoa Area.

(169) Samoa Islands region.

IDC I 02 18 33 01.8–48 15.69S 169.78W 0 4.2,4.0 ¶17189232
IDC Error ellipse: s-maj=953.4km s-min=193.8km az=80.0.
ISC I 06 08 27 22.0–1.2 16.0S–.10 172.3W–.30 10 4.3b 14 2-147
IDC I 06 08 27 20.2–1.3 16.11S 172.17W 0 4.3,4.1 **¶16031121**
ISCJB I 06 08 27 21.2–1.1 16.1S–.10 172.3W–.30 10 4.1b,3.4s
NEIC I 06 08 27 22.4–.95 16.04S 172.28W 10 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=51.3km s-min=17.8km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=39.0km s-min=8.9km az=25.4.
NEIC Event type se. Error ellipse: s-maj=36.6km s-min=12.1km az=121.0.
IDC I 06 16 34 48.8–49 15.95S 172.87W 0 4.3,4.1 ¶17189601
IDC Error ellipse: s-maj=955.9km s-min=184.8km az=79.0.
ISC I 06 17 02 03.1–.84 15.1S–.10 172.8W–.10 29 3.7b,3.6s 10 2-146
ISCJB I 06 17 02 00.6–.76 15.2S–.10 172.9W–.10 29 3.7b,3.5s **¶15930111**
IDC I 06 17 02 01.2–4.0 14.89S 173.46W 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=9.3km az=138.7.
IDC Error ellipse: s-maj=203.4km s-min=25.7km az=139.0.
ISC I 07 07 57 31.1–.54 12.8S–.10 174.43W–.08 35 4.6b,3.4s 51 3-148
IDC I 07 07 57 26.1–.64 12.58S 174.57W 0 4.8L,4.6 **¶15930114**
NEIC I 07 07 57 27.9–.28 12.62S 174.56W 10 4.7b,4.6
ISCJB I 07 07 57 29.9–.36 12.6S–.10 174.69W–.10 33 4.6b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 07 13 30 43.2–.64 16.34S–.10 173.0W–.10 24 4.3b,3.5s 16 3-147
IDC I 07 13 30 40.0–.74 16.44S 173.33W 0 4.5,4.3b **¶15930116**
ISCJB I 07 13 30 41.2–.55 16.5S–.10 173.1W–.10 24 4.2b,3.8s
ISC Event type ke.
ISCJB Event type ke.
IDC I 09 04 43 40.1–48 15.59S 172.34W 0 4.1,4.0 ¶17189738
IDC Error ellipse: s-maj=942.0km s-min=189.9km az=79.0.
ISC I 10 21 25 02.3–1.1 14.9S–.40 174.0W–.20 10 4.0b,3.7s 13 2-176
IDC I 10 21 25 00.8–1.1 14.84S 173.97W 0 4.4,4.1b **¶15940504**
ISC Event type ke.
IDC Error ellipse: s-maj=61.9km s-min=20.2km az=152.0.
ISC I 12 19 00 50.2–2.3 14.9S–.90 173.3W–.40 30 3.9s,3.7b 8 2-146
IDC I 12 19 00 44.9–2.1 15.06S 173.47W 0 4.2,3.9 **¶15940511**
ISC Event type ke.
IDC Error ellipse: s-maj=156.2km s-min=19.1km az=152.0.
ISC I 15 19 28 41.3–.82 15.79S–.10 171.9W–.10 41 4.0b 11 2-147
IDC I 15 19 28 35.8–.94 15.92S 172.03W 0 4.4,4.1 **¶15940529**
ISC Event type ke.
IDC Error ellipse: s-maj=37.0km s-min=20.6km az=143.0.
IDC I 18 04 46 41.6–47 15.63S 172.93W 0 4.1,3.9 ¶17190451
IDC Error ellipse: s-maj=909.2km s-min=189.6km az=79.0.
IDC I 19 14 03 32.5–54 15.56S 172.16W 0 4.1s,4.1 ¶17190563
IDC Error ellipse: s-maj=1045.0km s-min=198.4km az=79.0.
IDC I 26 15 32 18.4–54 15.76S 170.13W 0 4.0,3.8 ¶17191046
IDC Error ellipse: s-maj=1079.0km s-min=212.2km az=80.0.
IDC I 26 20 37 37.3–4.3 16.64S 172.94W 0 4.2,3.9 ¶17191059
IDC Error ellipse: s-maj=156.8km s-min=22.9km az=132.0.
IDC I 27 21 29 43.8–66 12.76S 174.46W 0 3.9,3.8 ¶17191146
IDC Error ellipse: s-maj=1260.0km s-min=189.6km az=75.0.
IDC I 28 08 01 53.9–14 15.94S 172.04W 0 3.9,3.6 ¶17191181
IDC Error ellipse: s-maj=654.8km s-min=39.8km az=139.0.
IDC I 28 16 31 01.7–3.9 15.63S 172.81W 0 4.1,3.8 ¶17191202
IDC Error ellipse: s-maj=201.4km s-min=26.5km az=139.0.
ISC I 29 11 01 56.3–1.3 16.0S–.30 172.9W–.40 26 4.0b 14 2-147
IDC I 29 11 01 52.5–1.5 16.18S 172.85W 0 4.3,4.0 **¶15990765**
ISCJB I 29 11 01 55.0–1.2 16.0S–.30 173.1W–.30 26 4.0b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC I 29 20 30 43.8–11 15.95S 171.94W 0 3.9,3.7 ¶15990769
IDC Error ellipse: s-maj=306.3km s-min=30.0km az=116.0.
IDC I 30 13 13 13.8–51 15.38S 170.25W 0 4.2,4.0 ¶17191325
IDC Error ellipse: s-maj=1002.0km s-min=195.4km az=79.0.
ISC II 03 20 25 17.9–.52 15.62S–.06 172.95W–.05 24–3 5.7s,5.3b 698 2-174
ISCJB II 03 20 25 14.4–.12 15.53S–.03 173.07W–.03 10 5.6s,5.2b **¶16002871**
IDC II 03 20 25 14.3–.40 15.37S 173.13W 0 5.5s,5.5
BJI II 03 20 25 14.8 14.97S 172.69W 8 6.1b,5.7s
GCMT II 03 20 25 15.9–.10 15.50S 172.62W 19–0 5.9W,5.7s
NEIC II 03 20 25 15.9–.13 15.51S 173.07W 10 6.0W,5.9W
NEIC II 03 20 25 15.0–.00 15.51S 173.09W 15 6.0W,5.9W
MOS II 03 20 25 19.3–1.0 15.22S 173.05W 33 5.6s,5.3b
NEIC II 03 20 25 41.8–.00 15.04S 173.19W 10 5.6s,5.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.2km az=146.1.
IDC Error ellipse: s-maj=18.0km s-min=12.3km az=130.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c276; s137,c424;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.74±.01 $M_{\theta\theta}$0.00±.01; $M_{\phi\phi}$-0.74±.01; $M_{r\theta}$0.04±.01; $M_{\theta\phi}$0.14±.00; $M_{\phi r}$0.44±.01; Best double couple: NP1:ϕ_s358.00000°,δ60.00000°,λ98.00000°. NP2:ϕ_s162.00000°,δ31.00000°,λ76.00000°. Principal axes: T 0.8670,Plg74.0000°,Azm288.0000°; N 0.0140,Plg7.0000°,Azm174.0000°; P -0.8820,Plg15.0000°,Azm82.0000° $M_0$0.87400×10^{18}
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=3.3km az=134.0. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}2.07 $M_{\theta\theta}$2.35 $M_{\phi\phi}$-4.43 $M_{r\theta}$0.86 $M_{\theta\phi}$0.87 $M_{\phi r}$3.65 Best double couple: NP1:ϕ_s134.00000°,δ33.00000°,λ30.00000°. NP2:ϕ_s19.00000°,δ74.00000°,λ119.00000°. Principal axes: T 4.3600,Plg52.0000°,Azm323.0000°; N 1.7200,Plg28.0000°,Azm190.0000°; P -6.0900,Plg24.0000°,Azm87.0000° $M_0$5.40000×10^{17}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ68.00000°,λ77.00000°. NP2:ϕ_s190.00000°,δ24.00000°,λ119.00000°. Principal axes: T 0.9600,Plg64.0000°,Azm228.0000°; N 0.0900,Plg12.0000°,Azm343.0000°; P -1.0500,Plg23.0000°,Azm78.0000°
MOS Error ellipse: s-maj=10.6km s-min=7.2km az=76.1.
NEIC Event type se. Moment Tensor Solution. s40 Moment tensor: Scale 10^{18}Nm; M_{rr}0.61 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-0.64 $M_{r\theta}$0.15 $M_{\theta\phi}$0.08 $M_{\phi r}$1.15 Best double couple: NP1:ϕ_s161.00000°,δ15.00000°,λ66.00000°. NP2:ϕ_s6.00000°,δ76.00000°,λ96.00000°. Principal axes: T 1.3100,Plg58.0000°,Azm284.0000°; N 0.0200,Plg6.0000°,Azm184.0000°; P -1.3300,Plg31.0000°,Azm90.0000° $M_0$1.30000×10^{18}
IDC II 03 20 55 30.9–3.9 15.50S 172.65W 0 4.1,3.9 ¶17191619
IDC Error ellipse: s-maj=171.7km s-min=24.5km az=134.0.
ISC II 03 21 19 36.5–.91 15.5S–.10 172.5W–.10 35 4.2b 13 2-147

IDC II 03 21 19 32.1–4.6 15.52S 172.57W 0 4.2,3.9 ¶16328664
ISCJB II 03 21 19 35.1–.83 15.49S–.09 172.6W–.10 35 4.0b,3.9
NEIC II 03 21 19 35.6–3.1 15.56S 172.46W 28–22 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=196.7km s-min=21.9km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=20.6km s-min=8.5km az=32.9.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=10.5km az=117.0.
ISC II 03 23 51 49.6–.76 15.1S–.10 172.9W–.10 29 4.1b 21 2-146
IDC II 03 23 51 44.6–1.3 15.50S 173.09W 0 4.3,4.0 ¶16328667
NEIC II 03 23 51 46.1–.38 15.40S 173.12W 10 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=64.6km s-min=20.1km az=146.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.0km az=166.0.
ISC II 04 08 18 25.5–.76 15.3S–.20 172.7W–.20 35 4.3b 19 2-147
IDC II 04 08 18 19.4–1.2 15.80S 172.66W 0 4.9,4.7s ¶16009352
NEIC II 04 08 18 22.1–.65 15.41S 172.74W 10 4.5b,4.7s
ISCJB II 04 08 18 23.7–.57 15.4S–.10 172.7W–.10 35 4.2b,4.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 05 12 38 36.7–2.2 14.94S 173.52W 0 4.1,3.7
¶17191737
IDC Error ellipse: s-maj=178.8km s-min=21.8km az=154.0.
IDC II 07 17 55 57.9–68 15.74S 172.87W 0 4.1,3.9
¶17191869
IDC Error ellipse: s-maj=1304.0km s-min=206.9km az=79.0.
ISC II 08 03 20 10.5–.53 15.65S–.10 172.95W–.09 29 4.5b,3.7s 40 2-148
IDC II 08 03 20 06.9–.69 15.44S 173.29W 0 4.5,4.3 ¶16029583
NEIC II 08 03 20 08.3–.35 15.45S 173.28W 10 4.7b,4.3
ISCJB II 08 03 20 09.9–.49 15.5S–.10 173.26W–.09 33 4.3b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 08 06 43 36.6–.60 15.2S–.10 172.4W–.20 35 4.3b,3.7s 43 1-159
NEIC II 08 06 43 31.8–.41 15.43S 172.17W 10 4.9b,3.7s ¶16029776
IDC II 08 06 43 31.0–.62 15.36S 172.36W 0 4.5,4.3
ISCJB II 08 06 43 34.7–.59 15.2S–.10 172.4W–.10 35 4.3b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 08 09 09 51.9–1.2 14.2S–.40 175.1W–.20 35 3.6b 7 3-82
IDC II 08 09 09 55.3–4.0 14.69S 174.74W 77–44 3.9,3.8 ¶17191891
ISC Event type ke.
IDC Error ellipse: s-maj=118.6km s-min=19.3km az=153.0.
ISC II 13 16 38 14.3–2.1 14.8S–.60 174.6W–.40 35 4.0s,3.9b 14 3-145
IDC II 13 16 38 09.3–1.7 14.56S 174.67W 0 4.2,4.0 ¶16029792
NEIC II 13 16 38 10.0–1.5 14.85S 174.51W 10 4.6b,4.0
ISCJB II 13 16 38 12.8–1.4 14.7S–.40 174.7W–.30 33 4.0s,3.9b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 14 15 33 54.3–8.9 16.13S 172.73W 0 3.9,3.6
¶17192250
IDC Error ellipse: s-maj=391.7km s-min=35.8km az=139.0.
IDC II 15 20 09 41.4–1.3 15.78S 171.53W 0 4.0,3.9
¶17192321
IDC Error ellipse: s-maj=49.8km s-min=22.9km az=86.0.
IDC II 18 09 48 19.5–54 15.38S 171.47W 0 4.0,3.8
¶17192470
IDC Error ellipse: s-maj=1064.0km s-min=199.7km az=79.0.
ISC II 18 23 36 30.6–.97 15.4S–.20 173.0W–.20 30 4.3b 13 2-146
IDC II 18 23 36 28.9–4.0 15.13S 173.42W 0 4.1L,3.8 ¶16342608
NEIC II 18 23 36 30.5–.39 15.01S 173.48W 10 4.6b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=250.1km s-min=26.2km az=150.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=7.7km az=132.0.
IDC II 21 20 15 19.9–2.8 15.69S 172.98W 0 4.3,4.3s
¶17192658
IDC Error ellipse: s-maj=146.4km s-min=22.4km az=144.0.
IDC II 22 19 53 50.2–24 16.76S 172.58W 0 4.4,4.2
¶17192724
IDC Error ellipse: s-maj=461.9km s-min=167.3km az=72.0.
IDC II 26 08 30 47.3–44 15.66S 172.73W 0 4.2,4.0
¶17192896
IDC Error ellipse: s-maj=845.9km s-min=175.5km az=79.0.
IDC II 27 02 17 56.1–8.7 15.41S 172.93W 0 4.0,3.8
¶17192930
IDC Error ellipse: s-maj=393.3km s-min=24.2km az=139.0.
IDC III 01 07 27 15.9–3.1 15.99S 172.94W 0 3.9,3.7
¶16195214
IDC Error ellipse: s-maj=171.0km s-min=28.3km az=147.0.
IDC III 01 09 11 33.8–3.2 14.70S 173.69W 159–102 3.4,3.2
¶17193054
IDC Error ellipse: s-maj=360.4km s-min=25.0km az=141.0.
IDC III 02 14 29 33.4–8.9 14.76S 174.06W 0 4.0,3.8
¶17193136
IDC Error ellipse: s-maj=377.7km s-min=62.2km az=138.0.
IDC III 06 13 46 41.5–1.8 14.86S 174.61W 0 3.7,3.6L
¶17193354
IDC Error ellipse: s-maj=144.3km s-min=28.0km az=160.0.
IDC III 08 16 55 17.4–4.5 14.95S 175.22W 234–103 3.8,3.5
¶17193479
IDC Error ellipse: s-maj=283.8km s-min=23.0km az=143.0.
ISC III 10 23 53 12.8–1.0 15.6S–.20 172.2W–.20 23 4.1b 8 15-84
IDC III 10 23 53 09.6–44 15.50S 172.29W 0 4.3,4.1 ¶16407471
NEIC III 10 23 53 10.8–.67 15.54S 172.22W 10 4.1b,4.1
ISCJB III 10 23 53 11.1–.94 15.6S–.10 172.3W–.20 23 4.1b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 01 17 39.7–.80 16.73S–.06 172.89W–.05 30–5 5.2b 257 3-174
IDC III 12 01 17 35.4–.45 16.77S 173.23W 0 4.9,4.8 ¶16308504
MOS III 12 01 17 39.6–1.6 16.64S 173.11W 33 5.6b,4.8
ISCJB III 12 01 17 39.2–.20 16.72S–.04 172.95W–.05 33 5.2b,4.8
BJI III 12 01 17 40.1 16.22S 172.86W 30 6.1s,5.7b
NEIC III 12 01 17 41.1–.18 16.65S 173.22W 35 5.2b,5.7b
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=13.5km az=136.0.
MOS Error ellipse: s-maj=10.8km s-min=8.4km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=33.4.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.7km az=126.0.
ISC III 12 01 19 08.6–.63 16.78S–.05 172.97W–.04 26–4 6.1s,5.7b 1265 3-174
IDC III 12 01 19 04.7–.36 16.81S 173.17W 0 5.9s,5.9 ¶16308505
BJI III 12 01 19 06.5 16.31S 172.96W 10 6.2s,6.0b
NEIC III 12 01 19 07.2–.13 16.72S 173.21W 14 6.0s,5.8W
GCMT III 12 01 19 07.2–.30 16.79S 172.77W 32–0 5.9W,5.8W
ISCJB III 12 01 19 08.6–.10 16.80S–.03 173.08W–.02 33 6.3s,5.6b
MOS III 12 01 19 10.0–1.4 16.57S 172.91W 35 6.0s,5.8b
ISC Event type fe.
IDC Error ellipse: s-maj=14.4km s-min=11.0km az=145.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=137.0. Felt at Neiafu. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}-7.05 $M_{\theta\theta}$3.65 $M_{\phi\phi}$3.40 $M_{r\theta}$0.54 $M_{\theta\phi}$2.92 $M_{\phi r}$2.42 Best double couple: NP1:ϕ_s55.00000°,δ37.00000°,λ-75.00000°. NP2: ϕ_s216.00000°,δ54.00000°,λ-101.00000°. Principal axes: T 6.7600,Plg9.0000°,Azm314.0000° ; N 0.8200,Plg9.0000°,Azm223.0000°; P -7.5800,Plg77.0000°,Azm88.0000° $M_0$7.20000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c92; s63,c93; Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.01±.04 $M_{\theta\theta}$0.19±.03; $M_{\phi\phi}$0.82±.03; $M_{r\theta}$-0.11±.06; $M_{\theta\phi}$0.23±.02; $M_{\phi r}$0.07±.04; Best double couple: NP1:ϕ_s192.00000°,δ46.00000° ,λ-99.00000°. NP2:ϕ_s25.00000°,δ44.00000°,λ-81.00000°. Principal axes: T 0.8980,Plg1.0000°,Azm288.0000°; N 0.1240,Plg6.0000°,Azm198.0000° ; P -1.0240,Plg84.0000°,Azm26.0000° $M_0$0.96100×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.7km az=154.4.
MOS Error ellipse: s-maj=10.2km s-min=6.5km az=64.5.
IDC III 24 10 03 30.7–9.4 16.17S 172.25W 0 4.2,4.0
¶17198323
IDC Error ellipse: s-maj=277.2km s-min=32.3km az=121.0.
ISC III 26 21 08 53.7–2.1 15.1S–.70 173.0W–.50 29 3.6b,3.6s 8 2-146
IDC III 26 21 08 49.7–2.6 15.33S 172.94W 0 4.0,3.7b ¶17198687
ISC Event type ke.
IDC Error ellipse: s-maj=152.3km s-min=20.5km az=143.0.
IDC IV 07 08 38 21.3–46 15.75S 172.27W 0 4.0,3.9
¶17200089
IDC Error ellipse: s-maj=894.8km s-min=196.7km az=79.0.
IDC IV 11 04 29 49.8–5.9 14.90S 174.16W 0 4.9,4.7
¶17200524
IDC Error ellipse: s-maj=220.6km s-min=60.5km az=133.0.
IDC IV 12 05 41 37.3–2.0 14.57S 175.74W 0 4.1,3.8
¶17200733
IDC Error ellipse: s-maj=140.3km s-min=24.3km az=151.0.
IDC IV 12 18 28 14.3–51 16.35S 172.06W 0 4.3,4.1
¶17200797
IDC Error ellipse: s-maj=984.4km s-min=179.9km az=80.0.
IDC IV 14 11 20 22.0–44 15.50S 170.67W 0 4.7,4.5
¶17201016
IDC Error ellipse: s-maj=864.4km s-min=192.9km az=79.0.
IDC IV 17 19 17 58.2–65 12.83S 166.80W 0 4.1,3.9
¶17201349
IDC Error ellipse: s-maj=1345.0km s-min=206.0km az=79.0.
IDC IV 22 04 50 01.3–6.4 14.60S 175.62W 0 4.0,3.8
¶17201787
IDC Error ellipse: s-maj=338.3km s-min=49.8km az=144.0.
ISC IV 23 16 54 14.4–.74 15.0S–.20 173.2W–.20 29 4.2b 14 2-146
IDC IV 23 16 54 10.7–.84 15.04S 173.33W 0 4.3,4.1 ¶16633255
NEIC IV 23 16 54 12.2–.62 15.03S 173.27W 10 4.0b,4.1
ISCJB IV 23 16 54 13.2–.70 15.0S–.20 173.3W–.10 29 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 25 22 58 59.0–.58 15.0S–.10 173.41W–.09 30 4.1b,3.5s 21 2-146
IDC IV 25 22 58 54.6–.77 15.08S 173.60W 0 4.2,4.1L ¶16681484
ISCJB IV 25 22 58 56.7–.55 15.0S–.10 173.59W–.08 30 4.1b,3.5s
NEIC IV 25 22 58 59.2–.53 15.01S 173.58W 35 4.7b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=35.6km s-min=17.7km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=10.0km az=156.7.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=11.6km az=156.0.
IDC IV 28 08 13 30.0–42 15.00S 170.99W 0 4.2,4.0
¶17202290
IDC Error ellipse: s-maj=832.6km s-min=175.0km az=79.0.
IDC IV 30 04 07 12.4–46 16.93S 171.93W 0 4.1,3.9
¶17202431
IDC Error ellipse: s-maj=897.8km s-min=185.1km az=80.0.
IDC V 01 19 38 12.3–54 15.59S 172.36W 0 3.8,3.6
¶17202555
IDC Error ellipse: s-maj=1045.0km s-min=190.5km az=79.0.
ISC V 01 23 19 01.8–.28 15.22S–.06 172.89W–.06 29 4.9b,4.3s 619 2-154
IDC V 01 23 18 57.3–.51 15.16S 172.77W 0 4.8,4.6 ¶16486834
NEIC V 01 23 18 58.6–.10 15.14S 172.94W 10 5.0b,4.6
BJI V 01 23 18 58.4 15.09S 172.98W 6 5.5b,5.3s
GCMT V 01 23 18 58.6–.20 14.92S 172.58W 22–1 5.0W,5.3s
ISCJB V 01 23 18 59.9–.15 15.22S–.04 172.90W–.04 29 4.9b,4.3s
MOS V 01 23 19 02.7–1.0 14.86S 172.68W 33 5.0b,4.3s
ISC Event type fe.
IDC Error ellipse: s-maj=21.2km s-min=13.8km az=125.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=2.7km az=134.0. Felt at Apia.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c41; s74,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.57±.18 $M_{\theta\theta}$1.86±.14; $M_{\phi\phi}$-0.29±.14; $M_{r\theta}$-0.88±.23; $M_{\theta\phi}$-3.16±.10; $M_{\phi r}$0.97±.24; Best double couple: NP1:ϕ_s168.00000°,δ86.00000° ,λ-22.00000°. NP2:ϕ_s260.00000°,δ68.00000°,λ-175.00000°. Principal axes: T 4.3970,Plg12.0000°,Azm216.0000°; N -1.7520,Plg68.0000°,Azm338.0000° ; P -2.6450,Plg18.0000°,Azm122.0000° $M_0$3.52100×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.0km az=140.3.
MOS Error ellipse: s-maj=11.6km s-min=7.5km az=70.2.
IDC V 05 17 22 04.2–7.0 16.27S 172.31W 112–44 3.6,3.5
¶17202871
IDC Error ellipse: s-maj=116.8km s-min=28.9km az=132.0.
ISC V 07 12 43 18.7–.82 15.9S–.10 172.0W–.20 41 4.1b,3.5s 19 2-147
IDC V 07 12 43 12.9–.76 15.94S 171.92W 0 4.3,4.1 ¶16506286
ISCJB V 07 12 43 17.3–.59 15.91S–.08 172.0W–.10 41 4.1b,3.4s
NEIC V 07 12 43 18.3–.47 15.88S 171.98W 35 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=15.3km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=8.3km az=27.6.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=8.7km az=136.0.
IDC V 11 11 58 06.4–1.9 14.29S 173.66W 0 3.8,3.5
¶17203386
IDC Error ellipse: s-maj=225.5km s-min=32.3km az=153.0.
IDC V 17 07 29 35.7–5.4 16.28S 172.92W 0 3.7,3.4
¶17203798
IDC Error ellipse: s-maj=395.5km s-min=34.7km az=150.0.
IDC V 21 21 57 43.8–44 16.68S 172.64W 0 4.6,4.5
¶17204168
IDC Error ellipse: s-maj=857.9km s-min=177.4km az=80.0.
ISC V 23 22 27 28.5–1.4 14.8S–.40 173.7W–.20 30 4.0b 21 2-146
IDC V 23 22 27 23.6–1.4 15.03S 173.62W 0 4.3,4.0 ¶16710753
NEIC V 23 22 27 24.9–.54 15.06S 173.64W 10 4.3b,4.0
ISCJB V 23 22 27 26.5–.86 15.0S–.30 173.8W–.20 30 4.0b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 23 22 29 09.0–5.7 16.20S 172.13W 0 4.0,3.8
¶17204332
IDC Error ellipse: s-maj=175.2km s-min=33.5km az=124.0.
ISC V 24 11 21 02.3–1.4 16.1S–.30 173.0W–.40 26 4.1b 7 2-83
IDC V 24 11 20 59.0–1.6 16.21S 173.06W 0 4.2,4.1L ¶17204373
ISCJB V 24 11 21 00.6–1.1 16.0S–.20 173.1W–.30 26 4.0b,4.1L
ISC Event type ke.
ISCJB Event type ke.
IDC V 25 00 51 14.4–6.8 15.92S 172.89W 0 3.8,3.6L
¶17204420
IDC Error ellipse: s-maj=275.7km s-min=28.9km az=135.0.
ISC V 25 21 33 09.5–.58 15.9S–.10 172.6W–.10 24 5.0b,3.6s 53 2-147
IDC V 25 21 33 05.0–.93 16.03S 172.46W 0 4.3,4.1 ¶16553837
ISCJB V 25 21 33 07.5–.35 15.97S–.07 172.63W–.09 24 4.9b,3.7s
NEIC V 25 21 33 10.5–.37 15.95S 172.59W 35 5.2b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=42.5km s-min=16.2km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=5.6km az=36.3.
NEIC Event type se. Error ellipse: s-maj=18.2km s-min=7.3km az=129.0.
IDC VI 01 01 24 36.0–6.9 15.43S 172.98W 0 4.0,3.7b
¶16578055
IDC Error ellipse: s-maj=335.2km s-min=25.1km az=141.0.
IDC VI 04 08 35 46.2–5.3 15.65S 172.84W 0 4.1,4.0
¶17205173
IDC Error ellipse: s-maj=218.1km s-min=26.5km az=134.0.
ISC VI 05 13 11 59.6–.63 14.6S–.20 174.0W–.20 35 4.5b 39 8-176
IDC VI 05 13 11 54.4–.83 14.47S 174.02W 0 4.4,4.1 ¶17205321
ISCJB VI 05 13 11 57.7–.53 14.6S–.10 174.1W–.20 33 4.4b,4.1
NEIC VI 05 13 12 07.3–2.8 14.61S 174.10W 101–25 4.4b,4.1
ISC Event type se.

IDC Error ellipse: s-maj=38.9km s-min=21.8km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=24.5km s-min=14.6km az=40.7.
NEIC Event type se. Error ellipse: s-maj=26.0km s-min=16.8km az=128.0.
ISC VI 07 09 48 06.4–1.1 16.3S–.20 172.4W–.30 24 3.8b 11 2-147
IDC VI 07 09 48 02.2–1.4 16.38S 172.31W 0 4.1,3.8 **¶17205473**
ISCJB VI 07 09 48 04.7–1.1 16.3S–.10 172.4W–.20 24 3.7b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 10 16 10 42.3–8.2 16.90S 172.56W 0 4.0,3.9b
¶17205718
IDC Error ellipse: s-maj=249.9km s-min=31.5km az=123.0.
ISC VI 14 21 53 43.4–1.3 15.7S–.30 172.8W–.30 24 3.9b 10 2-147
IDC VI 14 21 53 39.4–1.6 15.83S 172.66W 0 4.2,3.9L **¶16603756**
ISCJB VI 14 21 53 41.9–1.2 15.7S–.20 172.8W–.30 24 3.8b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 22 18 17.5–.85 15.51S–.08 171.8W–.10 23 4.1b 9 2-75
IDC VI 16 22 18 14.9–1.4 15.59S 171.91W 0 4.2,4.1 **¶16714857**
ISCJB VI 16 22 18 15.8–.68 15.62S–.06 171.8W–.10 23 4.0b,3.5s
NEIC VI 16 22 18 19.1–.68 15.54S 171.76W 35 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=26.6km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=8.9km az=0.1.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=13.7km az=54.0.
IDC VI 17 13 36 35.0–45 16.04S 172.34W 0 4.2,4.0
¶17206391
IDC Error ellipse: s-maj=878.6km s-min=182.9km az=79.0.
IDC VI 18 03 33 35.4–6.0 13.14S 173.58W 0 3.9,3.7
¶17206435
IDC Error ellipse: s-maj=221.9km s-min=27.3km az=8.0.
IDC VI 20 09 59 52.9–46 15.30S 172.69W 0 4.2,4.0
¶17206588
IDC Error ellipse: s-maj=900.0km s-min=187.8km az=78.0.
IDC VI 21 12 15 18.4–23 14.72S 175.55W 259–213 4.2,3.7
¶17206675
IDC Error ellipse: s-maj=138.3km s-min=49.6km az=128.0.
ISC VI 23 00 40 34.9–.84 15.2S–.20 172.5W–.30 35 3.8b 18 1-149
IDC VI 23 00 40 28.2–.93 15.25S 173.34W 0 4.4,4.1 **¶17206791**
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=23.6km az=142.0.

(170) Samoa Islands.

IDC III 18 12 16 58.4–59 14.70S 171.65W 0 4.6,4.5
¶17197010
IDC Error ellipse: s-maj=1148.0km s-min=182.5km az=79.0.
IDC III 23 07 57 22.0–3.1 13.09S 170.76W 0 4.1,3.8
¶17198148
IDC Error ellipse: s-maj=452.4km s-min=40.1km az=168.0.
IDC III 30 19 00 06.7–50 14.76S 171.59W 0 4.3,4.1b
¶17199222
IDC Error ellipse: s-maj=987.1km s-min=179.5km az=79.0.
IDC IV 28 21 44 55.6–60 14.74S 170.58W 0 4.1,3.9
¶17202328
IDC Error ellipse: s-maj=1180.0km s-min=206.1km az=79.0.
ISC V 04 02 48 18.5–1.3 14.9S–.30 172.4W–.30 35 4.0b 10 1-146
IDC V 04 02 48 13.6–1.2 14.92S 172.42W 0 4.2,4.0 **¶17202725**
ISCJB V 04 02 48 16.9–.95 14.9S–.20 172.5W–.30 35 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC V 06 01 03 56.1–3.6 14.51S 170.16W 0 4.3,4.1
¶17202885
IDC Error ellipse: s-maj=215.8km s-min=51.6km az=145.0.
IDC V 10 15 32 14.2–2.9 13.54S 170.94W 0 4.7,4.5
¶17203296
IDC Error ellipse: s-maj=98.5km s-min=21.9km az=139.0.
IDC V 16 08 11 13.5–46 14.86S 169.35W 0 4.2,4.0
¶17203734
IDC Error ellipse: s-maj=922.9km s-min=203.2km az=79.0.
IDC V 22 12 10 26.4–1.2 14.78S 172.80W 0 3.9,3.7
¶17204220
IDC Error ellipse: s-maj=54.7km s-min=22.5km az=143.0.
IDC VI 01 14 04 23.6–58 14.67S 170.74W 0 4.2,4.0
¶17204894
IDC Error ellipse: s-maj=1152.0km s-min=200.5km az=79.0.
IDC VI 17 05 57 40.5–44 14.85S 171.87W 0 4.5,4.3
¶17206368
IDC Error ellipse: s-maj=852.5km s-min=188.2km az=78.0.
IDC VI 25 08 51 19.9–1.9 14.95S 172.34W 0 4.1,3.7
¶17206914
IDC Error ellipse: s-maj=75.9km s-min=17.3km az=135.0.

(171) South of Fiji Islands.

IDC I 01 05 37 22.6–4.3 23.29S 178.15W 0 4.0,3.9
¶17189110
IDC Error ellipse: s-maj=181.6km s-min=45.7km az=145.0.
IDC I 02 03 36 11.4–6.1 19.97S 178.13E 0 3.7s,3.7
¶17189182
IDC Error ellipse: s-maj=296.3km s-min=96.9km az=157.0.
IDC I 03 22 04 54.6–63 22.09S 177.36W 0 4.2,4.0
¶17189364
IDC Error ellipse: s-maj=1160.0km s-min=170.2km az=85.0.
ISC I 05 16 12 26.5–.57 23.4S–.10 179.4E–.10 548 3.7b 34 12-170
IDC I 05 16 12 23.4–1.9 23.12S 179.43E 513–19 4.2,3.6 **¶17189520**
ISCJB I 05 16 12 25.8–.60 23.27S–.09 179.3E–.10 548 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 06 01 02 55.4–1.0 24.7S–.40 180.0E–.20 517 3.4b 11 34-168
IDC I 06 01 02 58.2–7.1 24.63S 179.88E 546–77 3.7,3.1 **¶17189557**
ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=32.8km az=152.0.
ISC I 07 09 07 41.6–.86 25.4S–.10 179.7E–.20 507 3.4b 12 13-168
ISCJB I 07 09 07 41.3–.96 25.3S–.10 179.6E–.20 507 3.3b **¶17189630**
IDC I 07 09 07 42.3–4.4 25.42S 179.71E 515–47 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=13.7km az=11.2.
IDC Error ellipse: s-maj=36.6km s-min=24.7km az=7.0.
ISC I 07 15 47 02.7–.43 25.54S–.05 177.99W–.09 250 4.6b 120 4-168
BJI I 07 15 46 50.3 24.54S 178.22W 115 5.3b,4.9b **¶15908882**
IDC I 07 15 46 59.9–1.7 25.16S 177.96W 218–15 4.7,4.3
NEIC I 07 15 47 00.8–1.5 25.45S 177.95W 235–15 5.3b,4.3
ISCJB I 07 15 47 01.1–.29 25.57S–.03 177.99W–.08 250 4.5b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 08 07 26 34.2–.80 23.9S–.10 180.0E–.20 526 3.9b 16 15-169
ISCJB I 08 07 26 33.6–.77 23.78S–.10 179.9E–.20 526 3.9b **¶17189677**
IDC I 08 07 26 33.7–1.9 23.77S 179.97E 516–18 4.4,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=12.4km az=15.5.
IDC Error ellipse: s-maj=29.8km s-min=17.6km az=162.0.
ISC I 08 08 25 50.5–.60 26.04S–.07 179.2W–.10 450 4.0b 76 11-167
NEIC I 08 08 24 30.8–.95 22.48S 174.16W 35 4.9b **¶17189684**
ISCJB I 08 08 25 48.0–.69 25.95S–.04 179.1W–.10 450 4.0b
IDC I 08 08 25 47.3–2.3 25.65S 179.42W 406–21 4.2,3.7
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=28.6km s-min=15.1km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=5.4km az=174.4.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=91.0.
IDC I 09 12 06 09.8–16 24.10S 177.97W 488–148 4.2,3.4
¶17189759
IDC Error ellipse: s-maj=278.1km s-min=89.3km az=69.0.

ISC I 10 16 51 05.6–.42 24.26S–.07 176.4W–.10 43 4.6b,4.1s 75 5-169
NEIC I 10 16 50 59.4–3.7 24.04S 176.39W 2–22 4.9b,4.1s **¶15940502**
ISCJB I 10 16 51 04.1–.37 24.29S–.06 176.49W–.09 43 4.5b,4.1s
IDC I 10 16 51 05.7–3.4 24.25S 176.44W 44–31 5.1L,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.1km az=19.6.
IDC Error ellipse: s-maj=18.4km s-min=15.9km az=13.0.
ISC I 12 00 52 07.0–.68 24.31S–.10 179.9E–.10 517 4.2b 22 13-169
ISCJB I 12 00 52 06.5–.62 24.21S–.09 179.8E–.10 517 4.2b **¶17189958**
IDC I 12 00 52 07.0–1.8 24.27S 179.80E 512–18 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=11.2km az=13.2.
IDC Error ellipse: s-maj=15.2km s-min=13.3km az=2.0.
ISC I 13 10 41 42.0–.36 22.40S–.04 179.19W–.05 555–3 5.0b 749 5-171
ISCJB I 13 10 41 38.9–.50 22.32S–.02 179.29W–.03 524–6 5.0b **¶15931416**
BJI I 13 10 41 39.3 21.92S 178.63W 539 5.1b,5.0b
MOS I 13 10 41 39.9–3.0 21.99S 179.55W 503 5.1b,5.0b
GCMT I 13 10 41 41.8–.60 22.80S 178.74W 564–3 5.3W,5.0b
IDC I 13 10 41 41.1–.50 22.26S 179.27W 540–4 5.4,4.6
NEIC I 13 10 41 41.8–.47 22.36S 179.30W 552–5 5.1b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=28.9.
MOS Error ellipse: s-maj=11.9km s-min=9.8km az=112.0.
GCMT Error ellipse: s-maj=6.7km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s61,c85;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.04 $M_{\theta\theta}$-0.19±.08; $M_{\phi\phi}$0.04±.08; $M_{r\theta}$-0.57±.07; $M_{\theta\phi}$-1.03±.06; $M_{\phi r}$-0.19±.08; Best double couple: NP1:$\phi_9$93.00000°,δ88.00000°,λ-152.00000°. NP2:$\phi_9$1.00000°,δ62.00000°,λ-3.00000°. Principal axes: T 1.0410,Plg18.0000°,Azm224.0000°; N 0.2810,Plg62.0000°,Azm97.0000°; P -1.3230,Plg21.0000°,Azm321.0000° $M_0$1.18200×10^{17}
IDC Error ellipse: s-maj=9.0km s-min=8.2km az=111.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.8km az=138.0.
ISC I 14 14 29 11.0–1.0 25.9S–.10 179.6E–.20 503 3.6b 8 13-167
ISCJB I 14 14 29 10.3–.96 25.8S–.10 179.6E–.20 503 3.6b **¶16019217**
IDC I 14 14 29 11.2–4.9 25.77S 179.59E 507–55 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=13.6km az=5.9.
IDC Error ellipse: s-maj=40.5km s-min=25.7km az=6.0.
IDC I 16 14 23 42.4–6.5 22.87S 179.62W 0 4.0,3.7
¶17190334
IDC Error ellipse: s-maj=273.0km s-min=61.7km az=149.0.
ISC I 18 07 44 54.3–.76 24.93S–.10 179.5E–.10 507 4.0b 21 12-168
ISCJB I 18 07 44 53.8–.74 24.84S–.08 179.4E–.10 507 4.2b **¶17190465**
IDC I 18 07 44 53.7–2.2 24.85S 179.55E 498–23 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=10.7km az=175.1.
IDC Error ellipse: s-maj=21.4km s-min=19.3km az=1.0.
ISC I 18 10 06 16.5–1.8 25.7S–.10 179.3W–.40 432 4.1b 6 13-149
IDC I 18 10 06 14.6–11 25.58S 179.24W 408–115 4.8,4.0 **¶16019233**
ISC Event type ke.
IDC Error ellipse: s-maj=81.0km s-min=37.0km az=27.0.
ISC I 19 01 48 09.4–.58 25.20S–.08 179.65E–.09 500 4.0b 26 5-168
ISCJB I 19 01 48 08.9–.57 25.19S–.07 179.60E–.10 500 4.0b **¶16019238**
IDC I 19 01 48 10.8–1.8 25.32S 179.77E 519–20 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=9.5km az=169.8.
IDC Error ellipse: s-maj=19.6km s-min=14.2km az=177.0.
IDC I 20 14 41 52.9–6.2 23.08S 179.85E 489–41 4.3,3.7
¶17190626
IDC Error ellipse: s-maj=110.1km s-min=47.0km az=138.0.
IDC I 21 08 03 40.1–2.0 22.80S 179.60W 0 4.4,4.2
¶17190667
IDC Error ellipse: s-maj=130.0km s-min=30.7km az=158.0.
ISC I 22 06 59 00.2–.67 23.6S–.10 180.0E–.10 535 3.8b 20 15-169
ISCJB I 22 06 58 59.8–.67 23.72S–.09 180.0E–.10 535 3.7b **¶16019250**
IDC I 22 06 59 00.5–2.9 23.42S 179.98E 529–31 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=11.4km az=19.1.
IDC Error ellipse: s-maj=24.7km s-min=18.7km az=158.0.
IDC I 22 10 13 19.1–58 22.88S 177.84W 0 4.0,3.8
¶17190735
IDC Error ellipse: s-maj=1057.0km s-min=162.6km az=86.0.
ISC I 22 16 28 35.3–1.1 25.0S–.10 180.0E–.20 501 3.6b 9 13-148
ISCJB I 22 16 28 34.7–1.3 24.8S–.10 179.9E–.20 501 3.6b **¶17190755**
IDC I 22 16 28 36.1–7.2 24.99S 179.98E 511–83 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.4km s-min=15.4km az=174.7.
IDC Error ellipse: s-maj=69.5km s-min=28.7km az=13.0.
ISC I 24 08 37 44.3–.34 23.45S–.05 179.70W–.06 536 4.5b 180 6-170
ISCJB I 24 08 37 44.1–.17 23.47S–.03 179.80W–.05 536 4.5b **¶16019257**
NEIC I 24 08 37 45.3–.85 23.49S 179.76W 543–11 5.0b
IDC I 24 08 37 45.3–1.6 23.34S 179.72W 544–18 4.6,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.5km az=22.7.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.9km az=138.0.
IDC Error ellipse: s-maj=13.1km s-min=11.4km az=127.0.
ISC I 29 01 42 36.2–.85 24.1S–.10 179.9E–.20 526 3.6b 13 14-169
IDC I 29 01 42 34.1–2.3 24.06S 179.91E 499–23 4.1,3.6 **¶17191223**
ISCJB I 29 01 42 35.7–.80 24.0S–.10 179.8E–.20 526 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC I 29 06 42 32.1–10 24.11S 179.77W 473–104 4.4,3.6
¶17191239
IDC Error ellipse: s-maj=101.9km s-min=43.8km az=30.0.
ISC I 30 11 24 28.4–.78 25.3S–.10 179.7E–.10 507 3.6b 14 13-168
ISCJB I 30 11 24 28.0–.72 25.19S–.09 179.6E–.10 507 3.5b **¶16019281**
IDC I 30 11 24 30.3–2.6 25.39S 179.69E 530–31 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=11.8km az=22.0.
IDC Error ellipse: s-maj=32.9km s-min=14.6km az=165.0.
IDC I 30 18 44 24.3–63 19.68S 179.08E 0 4.0,3.8
¶17191351
IDC Error ellipse: s-maj=1120.0km s-min=152.1km az=80.0.
IDC I 31 19 49 06.2–2.6 22.64S 176.05W 0 4.4,4.2
¶17191430
IDC Error ellipse: s-maj=146.3km s-min=28.1km az=155.0.
ISC II 01 00 49 21.0–1.2 22.1S–.30 179.9W–.20 650 3.6b 24 42-151
ISCJB II 01 00 49 20.0–1.3 22.0S–.30 180.0W–.20 650 3.6b **¶17191446**
IDC II 01 00 49 21.4–2.8 22.11S 179.88W 656–32 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.2km s-min=12.9km az=157.4.
IDC Error ellipse: s-maj=35.3km s-min=12.8km az=156.0.
ISC II 01 11 03 54.9–1.1 23.8S–.30 179.9W–.20 532 3.8b 12 13-169
ISCJB II 01 11 03 54.1–1.7 23.9S–.60 179.9W–.20 532 3.8b **¶17191474**
IDC II 01 11 03 55.9–3.0 23.71S 179.98W 539–30 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=82.2km s-min=16.0km az=163.6.
IDC Error ellipse: s-maj=44.1km s-min=19.8km az=158.0.
IDC II 01 16 43 54.2–5.5 23.26S 178.80W 0 4.3,4.0
¶17191494
IDC Error ellipse: s-maj=169.2km s-min=68.1km az=138.0.
IDC II 01 20 29 29.1–14 24.04S 179.80E 568–167 3.7,3.0
¶17191512
IDC Error ellipse: s-maj=78.7km s-min=49.2km az=125.0.
IDC II 02 15 22 54.3–5.3 25.00S 178.75W 0 3.9s,3.9
¶17191550
IDC Error ellipse: s-maj=213.8km s-min=53.1km az=146.0.
ISC II 02 16 38 11.1–.32 24.79S–.04 179.95W–.05 516–3 5.1b 713 5-168
ISCJB II 02 16 38 07.2–.51 24.65S–.03 179.97E–.04 478–6 5.0b **¶16168794**
MOS II 02 16 38 08.7–1.2 24.54S 179.99E 491 5.1b
BJI II 02 16 38 09.6 24.80S 180.00E 513 5.1b,5.0b

GCMT II 02 16 38 10.6–.60 24.68S 179.98W 539–4 5.3W,5.0b
NEIC II 02 16 38 10.6–.21 24.71S 180.00W 512 5.2b,5.0b
IDC II 02 16 38 10.3–.61 24.63S 180.00W 503–5 5.4,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.1km az=13.9.
MOS Error ellipse: s-maj=10.1km s-min=9.0km az=132.1.
GCMT Error ellipse: s-maj=7.8km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s49,c62;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.37±.04 $M_{\theta\theta}$0.43±.07; $M_{\phi\phi}$-0.05±.07; $M_{r\theta}$-0.41±.08; $M_{\theta\phi}$0.00±.07; $M_{\phi r}$-0.82±.06; Best double couple: NP1:ϕ_s35.00000°,δ82.00000°,λ-105.00000°. NP2:ϕ_s278.00000°,δ17.00000°,λ-28.00000°. Principal axes: T 0.8260,Plg36.0000°,Azm138.0000°; N 0.2920,Plg15.0000°,Azm37.0000° ; P -1.1180,Plg51.0000°,Azm289.0000° $M_0$0.97200×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.5km az=102.0.
IDC Error ellipse: s-maj=8.6km s-min=8.4km az=66.0.
ISC II 03 05 49 33.0–2.0 24.1S–.20 179.9W–.30 500 4.0b 11 18-169
IDC II 03 05 49 28.7–3.5 23.73S 179.64W 479–34 4.4,3.7 **¶17191575**
ISC Event type ke.
IDC Error ellipse: s-maj=34.3km s-min=25.1km az=173.0.
ISC II 03 12 04 07.7–.80 25.72S–.10 177.4W–.20 160 3.8b 12 4-148
IDC II 03 12 04 01.8–3.1 25.27S 177.54W 95–32 4.3,4.2 **¶16168797**
ISCJB II 03 12 04 07.0–.72 25.65S–.08 177.5W–.20 160 3.8b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC II 03 16 46 21.5–5.9 22.59S 179.10W 0 4.2,4.2L
¶17191603
IDC Error ellipse: s-maj=230.4km s-min=28.1km az=144.0.
IDC II 03 18 55 37.1–9.9 25.40S 179.00W 263–94 4.2,3.7
¶17191610
IDC Error ellipse: s-maj=68.3km s-min=38.8km az=7.0.
ISC II 05 07 35 50.1–1.3 23.9S–.40 179.9E–.20 526 3.9b 11 31-149
IDC II 05 07 35 46.3–2.7 24.09S 179.97W 488–24 4.4,3.8 **¶17191723**
ISCJB II 05 07 35 48.8–1.2 24.1S–.50 179.9E–.20 526 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 05 09 13 45.2–1.3 26.44S–.10 177.2W–.30 35 4.5b 17 3-151
IDC II 05 09 13 42.8–1.4 26.37S 177.65W 0 4.9L,4.5 **¶16168803**
ISCJB II 05 09 13 44.5–1.6 26.45S–.07 177.4W–.30 33 4.3b,3.3s
NEIC II 05 09 13 48.0–.96 26.59S 177.63W 35 4.6b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=42.5km s-min=30.6km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=36.6km s-min=9.6km az=175.3.
NEIC Event type se. Error ellipse: s-maj=24.4km s-min=18.2km az=82.0.
ISC II 07 16 19 25.6–.75 25.34S–.08 178.5W–.20 400 3.9b 30 12-150
IDC II 07 16 19 22.1–4.3 25.21S 178.90W 336–44 4.6,3.9 **¶17191865**
ISCJB II 07 16 19 23.8–.57 25.28S–.06 178.6W–.10 400 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC II 09 10 32 45.8–.96 23.6S–.10 177.8W–.10 250 3.5b 11 11-91
ISCJB II 09 10 32 44.6–.82 23.56S–.08 177.74W–.09 250 3.8b **¶17191938**
IDC II 09 10 32 45.7–3.4 23.51S 177.78W 248–40 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.1km az=24.2.
IDC Error ellipse: s-maj=29.6km s-min=21.6km az=136.0.
ISC II 09 13 06 04.3–.42 24.76S–.06 177.16W–.08 126 4.4b 91 5-168
BJI II 09 13 05 58.6 24.40S 177.30W 66 5.4b,5.2s **¶16016444**
IDC II 09 13 06 02.5–2.8 24.51S 177.24W 111–25 4.5,4.3
NEIC II 09 13 06 02.7–1.9 24.54S 177.28W 109–17 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=15.3km az=156.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=9.2km az=168.0.
ISC II 10 00 24 57.3–1.1 26.1S–.10 179.2E–.20 503 4.0b 16 12-167
ISCJB II 10 00 24 55.6–4.4 26.0S–.20 179.3E–.60 503 3.9b **¶16168830**
IDC II 10 00 24 55.7–7.8 26.08S 179.26E 480–76 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=77.0km s-min=15.3km az=158.9.
IDC Error ellipse: s-maj=63.2km s-min=26.2km az=38.0.
ISC II 10 10 00 34.1–.98 22.6S–.10 179.4W–.10 579 4.2b 17 13-147
ISCJB II 10 10 00 32.9–1.1 22.48S–.10 179.3W–.20 579 4.1b **¶17192004**
IDC II 10 10 00 33.2–4.4 22.37S 179.30W 566–45 4.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=12.9km az=179.6.
IDC Error ellipse: s-maj=37.5km s-min=28.3km az=132.0.
ISC II 10 16 41 08.0–.42 24.15S–.06 179.96W–.08 518 4.5b 129 5-169
BJI II 10 16 41 04.0 24.10S 180.00W 490 5.1b,4.5b **¶16022181**
ISCJB II 10 16 41 07.3–.22 24.06S–.03 179.92E–.05 518 4.4b,4.5b
NEIC II 10 16 41 08.0–1.1 24.08S 179.97W 521–14 4.7b,4.5b
IDC II 10 16 41 07.9–1.4 23.88S 179.93E 508–13 4.4,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=17.2.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.1km az=168.0.
IDC Error ellipse: s-maj=20.2km s-min=12.2km az=155.0.
ISC II 10 22 02 23.9–.40 23.47S–.05 179.79W–.05 549–4 4.7b 449 6-175
BJI II 10 22 02 20.5 23.35S 179.40W 534 5.1b,4.7b **¶16020422**
ISCJB II 10 22 02 21.6–.62 23.41S–.03 179.87W–.04 524–7 4.7b,4.7b
MOS II 10 22 02 22.1–1.1 23.29S 179.85W 529 4.6b,4.7b
NEIC II 10 22 02 25.0–.16 23.42S 179.83W 561 4.9b,4.7b
IDC II 10 22 02 24.3–.65 23.38S 179.82W 548–6 4.9,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=30.0.
MOS Error ellipse: s-maj=10.8km s-min=9.8km az=166.9.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=127.0.
IDC Error ellipse: s-maj=10.0km s-min=8.9km az=108.0.
ISC II 11 03 31 31.3–.43 23.48S–.05 179.80W–.06 555–4 4.9b 473 6-170
MOS II 11 03 31 29.4–1.2 23.26S 179.88W 536 4.7b **¶16020433**
ISCJB II 11 03 31 31.1–.55 23.50S–.03 179.89W–.03 560–7 4.7b
BJI II 11 03 31 31.2 23.56S 179.92W 562 5.2b,4.7b
IDC II 11 03 31 31.6–.51 23.36S 179.82W 554–5 4.8,4.2
NEIC II 11 03 31 32.1–.47 23.39S 179.90W 560–5 5.0b,4.2
ISC Event type se.
MOS Error ellipse: s-maj=12.9km s-min=9.1km az=48.1.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=143.7.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=137.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=138.0.
ISC II 11 14 44 28.3–.64 24.12S–.09 179.9W–.10 518 4.0b 39 14-148
ISCJB II 11 14 44 27.7–.55 24.04S–.05 180.0E–.10 518 4.0b **¶17192081**
IDC II 11 14 44 27.0–1.6 23.92S 179.94W 500–14 4.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=6.9km az=2.7.
IDC Error ellipse: s-maj=17.1km s-min=14.6km az=137.0.
ISC II 11 19 13 32.5–.64 24.18S–.09 179.9E–.10 526 3.8b 21 14-169
IDC II 11 19 13 30.2–2.2 24.03S 179.89E 499–22 4.3,3.6 **¶17192085**
ISCJB II 11 19 13 31.7–.60 24.09S–.08 179.8E–.10 526 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 14 13 35 06.2–.96 24.2S–.30 179.8E–.20 526 3.8b 14 13-169
IDC II 14 13 35 03.4–2.4 24.23S 179.93E 495–23 4.2,3.7 **¶17192242**
ISCJB II 14 13 35 05.8–1.3 24.0S–.50 179.7E–.20 526 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 15 09 20 20.5–.60 24.48S–.10 180.0E–.10 517 3.8b 24 13-169
ISCJB II 15 09 20 19.9–.57 24.36S–.08 179.8E–.10 517 3.9b **¶16398249**
IDC II 15 09 20 19.4–2.3 24.32S 179.88E 502–24 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=10.0km az=26.6.
IDC Error ellipse: s-maj=24.1km s-min=13.5km az=153.0.
IDC II 16 15 30 27.1–10 22.90S 179.42W 454–96 4.2,3.4
¶17192372
IDC Error ellipse: s-maj=81.1km s-min=28.8km az=38.0.
IDC II 17 03 58 09.6–3.1 23.56S 179.83E 504–25 4.3,3.6
¶17192398
IDC Error ellipse: s-maj=90.2km s-min=26.8km az=162.0.

ISC II 17 22 35 01.8–.52 22.47S–.08 179.60W–.09 579 3.9b 54 7-171
ISCJB II 17 22 35 00.9–.47 22.42S–.06 179.58W–.08 579 4.0b **¶17192447**
IDC II 17 22 35 02.1–1.6 22.29S 179.65W 576–16 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=8.1km az=170.4.
IDC Error ellipse: s-maj=16.6km s-min=12.7km az=158.0.
IDC II 19 06 19 34.8–6.3 24.82S 179.72W 552–74 3.9,3.2
¶17192521
IDC Error ellipse: s-maj=72.9km s-min=34.9km az=176.0.
IDC II 20 01 14 04.6–9.4 24.64S 179.73W 498–99 4.4,3.5
¶17192563
IDC Error ellipse: s-maj=80.5km s-min=40.3km az=34.0.
ISC II 21 05 00 48.3–.50 19.5S–.10 177.50E–.09 27 4.3b,3.8s 38 11-150
IDC II 21 05 00 44.6–.72 19.35S 177.38E 0 4.4,4.4 **¶16176404**
ISCJB II 21 05 00 46.1–.45 19.53S–.09 177.58E–.07 27 4.2b,3.8s
NEIC II 21 05 00 52.4–1.9 19.48S 177.35E 60–18 4.4b,3.8s
GCMT II 21 05 00 52.4–.20 19.69S 177.57E 22–1 5.0W,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=16.9km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=7.8km az=152.2.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=10.3km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c45; s94,c138; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.33±.17 $M_{\theta\theta}$-2.98±.14; $M_{\phi\phi}$3.32±.12; $M_{r\theta}$-0.56±.21; $M_{\theta\phi}$2.27±.09; $M_{\phi r}$0.18±.19; Best double couple: NP1:ϕ_s62.00000°,δ83.00000° ,λ-7.00000°. NP2:ϕ_s153.00000°,δ83.00000°,λ-173.00000°. Principal axes: T 4.0530,Plg0.0000°,Azm108.0000°; N -0.2320,Plg80.0000°,Azm198.0000° ; P -3.8130,Plg10.0000°,Azm18.0000° $M_0$3.93300×10^{16}
ISC II 21 10 57 51.8–.20 26.04S–.03 178.48E–.03 552–1 6.3b 2836 5-173
MOS II 21 10 57 49.6–.89 25.97S 178.41E 529 6.3b **¶16245260**
ISCJB II 21 10 57 51.0–.30 26.10S–.02 178.38E–.02 550–4 6.3b
BJI II 21 10 57 50.7 25.95S 178.35E 540 6.2b,6.2b
NEIC II 21 10 57 51.0–.00 26.08S 178.44E 540 6.2b,6.2b
GCMT II 21 10 57 52.4–.10 25.95S 178.47E 568–0 6.5W,6.2b
NEIC II 21 10 57 52.4–.35 26.14S 178.39E 558–4 6.6W,6.5W
IDC II 21 10 57 52.3–.37 26.07S 178.44E 552–3 6.4,5.6
ISC Event type se.
MOS Error ellipse: s-maj=7.7km s-min=6.3km az=68.2.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=169.2.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.02 $M_{\theta\theta}$0.84 $M_{\phi\phi}$1.17 $M_{r\theta}$-1.77 $M_{\theta\phi}$-2.15 $M_{\phi r}$6.01 Best double couple: NP1:ϕ_s162.00000° ,δ80.00000°,λ-76.00000°. NP2:ϕ_s286.00000°,δ17.00000°,λ-145.00000°. Principal axes: T 7.0500,Plg33.0000°,Azm240.0000°; N -0.4100,Plg13.0000°,Azm339.0000° ; P -6.6400,Plg52.0000°,Azm88.0000° $M_0$6.90000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s145,c351; s131,c228; Duration: 4s5 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.61±.03 $M_{\theta\theta}$1.50±.04; $M_{\phi\phi}$1.11±.04; $M_{r\theta}$-1.95±.04; $M_{\theta\phi}$-2.87±.04; $M_{\phi r}$6.71±.04; Best double couple: NP1:ϕ_s161.00000°,δ79.00000° ,λ-72.00000°. NP2:ϕ_s281.00000°,δ21.00000°,λ-148.00000°. Principal axes: T 8.0470,Plg32.0000°,Azm236.0000°; N -0.3300,Plg18.0000°,Azm338.0000° ; P -7.7170,Plg52.0000°,Azm92.0000° $M_0$7.88200×10^{18}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=151.0. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ18.00000°,λ-156.00000°. NP2: ϕ_s169.00000°,δ83.00000°,λ-73.00000°. Principal axes: T 1.1100,Plg36.0000°,Azm245.0000° ; N -0.2300,Plg17.0000°,Azm347.0000°; P -0.8800,Plg50.0000°,Azm97.0000°
IDC Error ellipse: s-maj=6.7km s-min=5.2km az=17.0.
ISC II 21 11 02 51.5–.37 26.07S–.07 178.42E–.08 631 4.8b 163 5-173
NEIC II 21 11 02 49.6–.57 25.89S 178.34E 601–6 5.1b **¶16168889**
IDC II 21 11 02 49.0–.98 25.88S 178.37E 592–11 5.4,4.6
ISCJB II 21 11 02 50.9–.19 26.11S–.04 178.18E–.07 631 4.9b,4.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 21 11 09 51.7–.54 26.1S–.10 178.4E–.10 631 4.2b 50 5-167
ISCJB II 21 11 09 49.9–.54 26.24S–.07 178.3E–.10 631 4.3b **¶16168890**
IDC II 21 11 09 49.9–1.0 25.97S 178.36E 601–11 4.8,3.8
NEIC II 21 11 09 49.4–.74 26.05S 178.37E 602–8 4.8b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=8.2km az=153.9.
IDC Error ellipse: s-maj=14.6km s-min=12.6km az=21.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=10.1km az=222.0.
ISC II 21 11 13 07.5–.47 25.86S–.08 178.36E–.08 631 4.5b 71 10-167
ISCJB II 21 11 13 06.2–.47 25.79S–.05 178.31E–.09 631 4.4b **¶16168891**
IDC II 21 11 13 07.0–1.4 25.69S 178.24E 617–13 4.8,3.9
NEIC II 21 11 13 07.2–.97 25.70S 178.37E 626–11 4.9b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=6.3km az=166.9.
IDC Error ellipse: s-maj=14.6km s-min=13.6km az=166.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=10.3km az=207.0.
IDC II 21 11 18 04.3–10 24.99S 177.25W 219–76 4.4,4.0
¶17192630
IDC Error ellipse: s-maj=198.1km s-min=98.4km az=71.0.
IDC II 21 11 46 37.9–54 23.05S 178.56W 0 4.1,4.0
¶17192631
IDC Error ellipse: s-maj=975.1km s-min=146.8km az=86.0.
IDC II 21 12 13 26.6–65 24.41S 177.46W 0 3.9,3.7
¶17192632
IDC Error ellipse: s-maj=1197.0km s-min=195.4km az=89.0.
IDC II 21 18 28 27.4–13 24.88S 177.54W 307–147 4.3,3.7
¶17192649
IDC Error ellipse: s-maj=181.0km s-min=55.9km az=81.0.
IDC II 21 20 29 08.9–1.3 25.96S 178.69E 560–15 4.3,3.6
¶16168895
IDC Error ellipse: s-maj=30.0km s-min=16.1km az=168.0.
IDC II 22 07 45 17.2–5.9 24.31S 179.78W 0 4.2,4.0
¶17192685
IDC Error ellipse: s-maj=191.0km s-min=91.4km az=150.0.
ISC II 22 19 33 44.4–1.2 25.4S–.10 179.8E–.20 507 3.4b 9 13-144
ISCJB II 22 19 33 44.3–1.3 25.3S–.10 179.6E–.20 507 3.5b **¶16168904**
IDC II 22 19 33 45.4–6.8 25.46S 179.72E 517–82 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.0km s-min=14.6km az=174.4.
IDC Error ellipse: s-maj=65.3km s-min=28.0km az=11.0.
ISC II 22 21 50 15.9–.71 24.95S–.10 176.3W–.10 35 4.0b 16 12-168
NEIC II 22 21 50 12.1–4.5 24.92S 176.34W 7–29 4.6b **¶16398779**
ISCJB II 22 21 50 13.6–.68 24.93S–.08 176.3W–.10 33 4.1b,3.9s
IDC II 22 21 50 13.2–1.1 25.07S 176.71W 0 4.1,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=11.3km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=8.3km az=36.0.
IDC Error ellipse: s-maj=47.5km s-min=26.3km az=150.0.
ISC II 23 05 52 16.0–.50 25.09S–.07 179.77E–.09 501 4.3b 80 5-168
ISCJB II 23 05 52 15.2–.42 25.04S–.04 179.73E–.09 501 4.3b **¶16168908**
IDC II 23 05 52 16.8–1.6 24.93S 179.77E 507–16 4.7,4.0
NEIC II 23 05 52 17.6–.92 24.99S 179.76E 521–10 4.8b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=5.8km az=173.2.
IDC Error ellipse: s-maj=15.9km s-min=13.7km az=16.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=9.8km az=199.0.
ISC II 23 14 32 58.5–.68 25.95S–.09 178.6E–.10 600 3.9b 34 12-167
ISCJB II 23 14 32 58.7–.68 25.80S–.06 178.4E–.10 600 3.9b **¶16168909**
IDC II 23 14 33 00.5–2.8 25.70S 178.39E 616–31 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=8.3km az=179.2.
IDC Error ellipse: s-maj=25.4km s-min=22.7km az=167.0.
ISC II 24 13 50 51.5–.75 22.4S–.10 179.5W–.10 579 4.0b 33 11-152
ISCJB II 24 13 50 50.1–.61 22.35S–.08 179.4W–.10 579 4.0b **¶17192790**
IDC II 24 13 50 50.2–2.2 22.21S 179.41W 560–24 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=9.9km az=24.0.

IDC Error ellipse: s-maj=28.9km s-min=15.1km az=141.0.
ISC II 25 10 16 35.7–.47 24.78S–.08 177.21W–.09 126 4.1b 43 4-168
NEIC II 25 10 16 30.9–1.1 24.72S 177.20W 82–11 4.8b **¶16168922**
IDC II 25 10 16 31.5–2.5 24.76S 177.20W 87–22 4.3,4.1
ISCJB II 25 10 16 34.4–.43 24.83S–.08 177.27W–.08 126 4.2b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 25 14 51 43.4–1.2 25.5S–.10 179.7E–.10 507 3.9b 12 13-168
ISCJB II 25 14 51 42.8–1.1 25.3S–.10 179.6E–.20 507 3.8b **¶17192843**
IDC II 25 14 51 42.6–2.7 25.44S 179.69E 494–29 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=13.5km az=165.9.
IDC Error ellipse: s-maj=27.8km s-min=19.9km az=23.0.
ISC II 25 20 26 17.3–.57 23.62S–.10 180.0W–.10 532 4.1b 30 15-169
ISCJB II 25 20 26 17.0–.63 23.54S–.09 179.9E–.10 532 4.0b **¶16168925**
IDC II 25 20 26 16.2–2.2 23.43S 179.94W 517–22 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=11.2km az=8.7.
IDC Error ellipse: s-maj=18.1km s-min=16.0km az=166.0.
IDC II 26 11 00 26.7–6.9 24.30S 179.59E 576–80 4.1,3.5
¶17192901
IDC Error ellipse: s-maj=97.4km s-min=29.5km az=152.0.
ISC II 26 23 45 16.7–.91 22.9S–.20 178.0W–.20 10 4.4b 14 11-148
ISCJB II 26 23 45 15.1–.74 22.9S–.10 178.0W–.20 10 4.4b **¶16399017**
IDC II 26 23 45 15.4–3.6 22.89S 178.01W 0 4.0,3.9L
NEIC II 26 23 45 16.7–.51 22.88S 177.97W 10 4.5b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.0km s-min=12.4km az=37.2.
IDC Error ellipse: s-maj=79.0km s-min=61.5km az=102.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=8.8km az=127.0.
ISC II 27 00 57 08.5–1.0 25.0S–.10 178.4W–.20 35 4.5b 12 4-149
NEIC II 27 00 57 04.9–.54 24.93S 178.37W 10 4.6b **¶16399078**
ISCJB II 27 00 57 06.8–.95 25.02S–.10 178.4W–.20 33 4.2b
IDC II 27 00 57 22.7–20 25.93S 178.50W 152–178 3.9,3.9L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.5km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=21.1km s-min=13.8km az=165.8.
IDC Error ellipse: s-maj=133.8km s-min=59.3km az=13.0.
IDC II 27 14 57 34.2–64 23.12S 176.44W 0 3.8,3.6
¶17192956
IDC Error ellipse: s-maj=1175.0km s-min=171.7km az=88.0.
ISC II 27 21 06 34.0–1.0 25.41S–.10 178.9W–.20 388 3.7b 11 4-147
ISCJB II 27 21 06 33.2–.87 25.35S–.08 179.0W–.10 388 3.7b **¶17192967**
IDC II 27 21 06 33.3–2.9 25.19S 178.97W 375–36 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=10.6km az=170.7.
IDC Error ellipse: s-maj=46.3km s-min=19.3km az=167.0.
IDC II 28 01 02 10.0–65 22.28S 179.97E 0 4.3,4.2
¶17192972
IDC Error ellipse: s-maj=1174.0km s-min=160.9km az=85.0.
IDC II 28 10 54 47.5–2.7 23.26S 178.72W 0 4.4,4.2
¶17192991
IDC Error ellipse: s-maj=160.8km s-min=32.1km az=153.0.
ISC II 28 14 34 39.2–1.1 24.2S–.10 179.5W–.20 518 3.9b 9 13-43
IDC II 28 14 34 37.5–2.2 24.00S 179.81W 478–21 4.4,3.5 **¶17193003**
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=27.4km az=82.0.
ISC II 28 23 22 33.0–.54 22.3S–.10 179.51W–.10 579 4.4b 150 32-171
ISCJB II 28 23 22 32.5–.63 22.1S–.20 179.6W–.10 579 4.3b **¶16168323**
IDC II 28 23 22 32.3–1.6 22.16S 179.46W 568–15 4.6,3.9
BJI II 28 23 22 32.5 22.16S 178.90W 601 5.1b,4.5b
MOS II 28 23 22 44.3–1.4 20.75S 178.77E 610 4.5b,4.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=10.2km az=158.3.
IDC Error ellipse: s-maj=19.6km s-min=12.0km az=152.0.
MOS Error ellipse: s-maj=18.6km s-min=14.7km az=38.6.
ISC III 01 05 19 02.3–.92 23.9S–.20 179.6E–.10 650 4.0b 11 19-169
ISCJB III 01 05 19 01.0–.87 24.0S–.20 179.6E–.10 650 4.0b **¶17193041**
IDC III 01 05 19 03.0–2.1 23.98S 179.62E 657–33 4.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.1km s-min=15.8km az=167.6.
IDC Error ellipse: s-maj=31.3km s-min=14.2km az=173.0.
IDC III 01 18 51 44.0–45 23.39S 177.79W 0 4.3,4.1
¶17193089
IDC Error ellipse: s-maj=825.8km s-min=152.2km az=87.0.
IDC III 02 13 51 02.9–5.8 23.70S 178.11W 0 4.2,3.9b
¶17193133
IDC Error ellipse: s-maj=262.8km s-min=52.6km az=151.0.
ISC III 03 07 06 55.1–.42 23.61S–.07 179.18E–.10 555 4.0b 76 13-169
IDC III 03 07 06 54.0–1.7 23.42S 179.17E 532–18 4.4,3.8 **¶16461105**
ISCJB III 03 07 06 55.0–.40 23.58S–.05 179.1E–.10 555 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 04 20 33 16.0–.52 23.71S–.06 179.76W–.07 578–5 4.5b 342 6-169
MOS III 04 20 33 12.5–3.0 22.81S 179.94E 495 4.8b **¶16196739**
BJI III 04 20 33 13.9 23.08S 179.41W 561 5.0b,4.6b
ISCJB III 04 20 33 14.8–.18 23.55S–.03 179.93W–.05 570 4.5b,4.6b
NEIC III 04 20 33 14.9–.78 23.55S 179.84W 563–9 4.7b,4.6b
IDC III 04 20 33 18.8–1.8 23.53S 179.97W 603–21 4.6,3.8
ISC Event type se.
MOS Error ellipse: s-maj=14.9km s-min=13.1km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.2km az=13.3.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=172.0.
IDC Error ellipse: s-maj=14.9km s-min=10.9km az=163.0.
ISC III 04 23 42 09.2–.85 25.94S–.09 178.1W–.20 100 3.6b 10 3-150
ISCJB III 04 23 42 08.1–.87 25.95S–.07 178.1W–.20 100 3.5b **¶16461112**
IDC III 04 23 42 09.8–3.3 26.02S 177.99W 110–35 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=9.9km az=3.1.
IDC Error ellipse: s-maj=35.5km s-min=23.3km az=139.0.
ISC III 05 10 42 01.1–.97 24.2S–.20 179.8W–.10 500 3.8b 22 13-148
IDC III 05 10 41 58.4–2.0 24.26S 179.58W 471–19 4.4,3.8 **¶17193279**
ISCJB III 05 10 41 59.6–.83 24.3S–.20 179.6W–.10 500 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 05 12 44 03.6–6.2 26.07S 178.76E 0 4.0,3.9
¶17193282
IDC Error ellipse: s-maj=242.6km s-min=38.7km az=154.0.
ISC III 06 03 11 28.2–1.3 26.8S–.10 176.6W–.20 29 3.8b 8 3-149
IDC III 06 03 11 23.7–1.6 26.75S 176.58W 0 4.6L,4.1 **¶17193318**
ISCJB III 06 03 11 27.7–1.4 26.71S–.10 176.8W–.20 29 3.7b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 16 12 18.4–.75 22.0S–.10 179.8W–.10 600 3.5b 16 36-151
ISCJB III 06 16 12 17.1–.70 22.0S–.10 179.8W–.20 600 3.5b **¶17193360**
IDC III 06 16 12 18.7–5.5 22.03S 179.76W 606–65 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=17.5km az=147.3.
IDC Error ellipse: s-maj=30.0km s-min=18.4km az=64.0.
IDC III 07 13 19 06.9–3.4 22.60S 179.57W 526–40 4.3,3.5
¶17193415
IDC Error ellipse: s-maj=53.5km s-min=17.7km az=159.0.
IDC III 07 14 34 28.1–59 22.50S 179.42W 0 3.6,3.5
¶17193418
IDC Error ellipse: s-maj=1056.0km s-min=155.7km az=85.0.
IDC III 08 19 13 35.9–31 22.41S 179.66W 582–283 4.2,3.4
¶17193486
IDC Error ellipse: s-maj=233.6km s-min=99.2km az=76.0.
ISC III 08 23 29 48.1–1.7 23.5S–.60 179.9W–.30 532 3.5b 10 32-147
ISCJB III 08 23 29 47.3–1.6 23.5S–.60 180.0W–.30 532 3.6b **¶17193501**

IDC III 08 23 29 49.6–3.1 23.58S 179.93W 548–34 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=81.6km s-min=17.9km az=157.8.
IDC Error ellipse: s-maj=88.9km s-min=17.3km az=159.0.
IDC III 09 14 57 10.1–23 24.83S 177.64E 657–215 4.3,3.3
¶17193562
IDC Error ellipse: s-maj=211.4km s-min=92.1km az=84.0.
IDC III 10 04 15 08.3–11 25.91S 179.22W 520–139 4.0,3.2
¶17193602
IDC Error ellipse: s-maj=49.5km s-min=27.4km az=74.0.
ISC III 10 11 47 18.3–1.0 23.9S–.20 180.0E–.20 518 4.1b 11 21-93
IDC III 10 11 47 16.4–2.8 23.82S 179.96W 496–31 4.4,3.7 **¶17193621**
ISCJB III 10 11 47 17.4–.82 23.9S–.20 180.0E–.10 518 4.0b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 00 41 19.0–7.2 21.53S 179.09E 526–45 4.3,3.6
¶17193666
IDC Error ellipse: s-maj=132.0km s-min=31.1km az=137.0.
IDC III 11 01 04 41.8–3.9 24.25S 179.97E 500–33 4.5,3.8
¶17193669
IDC Error ellipse: s-maj=77.0km s-min=25.4km az=163.0.
IDC III 11 02 39 17.6–4.5 22.59S 178.54W 0 4.4,4.3
¶17193673
IDC Error ellipse: s-maj=172.9km s-min=56.2km az=144.0.
ISC III 11 04 42 25.6–.43 22.2S–.10 179.53W–.07 600 4.6b 81 5-171
ISCJB III 11 04 42 24.6–.39 22.33S–.10 179.63W–.07 600 4.4b **¶16461281**
NEIC III 11 04 42 24.8–.69 22.29S 179.57W 588–8 4.8b
IDC III 11 04 42 24.0–1.1 22.28S 179.56W 574–11 4.7,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=7.4km az=164.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=6.8km az=164.0.
IDC Error ellipse: s-maj=15.5km s-min=10.4km az=166.0.
ISC III 11 19 48 26.8–.54 24.36S–.07 176.2W–.10 10 4.7b 33 5-169
ISCJB III 11 19 48 24.7–.52 24.27S–.07 176.25W–.09 10 4.5b **¶16308468**
NEIC III 11 19 48 26.1–.62 24.44S 176.16W 10 5.0b
IDC III 11 19 48 27.2–1.0 24.31S 176.61W 0 5.8L,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=8.4km az=27.7.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=11.2km az=127.0.
IDC Error ellipse: s-maj=28.4km s-min=22.0km az=97.0.
IDC III 12 03 52 39.5–41 22.65S 177.97E 563–411 3.6,2.9
¶17194246
IDC Error ellipse: s-maj=282.3km s-min=257.9km az=139.0.
IDC III 13 04 46 00.4–1.6 23.93S 178.35W 0 4.4,4.2
¶17194723
IDC Error ellipse: s-maj=62.6km s-min=38.2km az=163.0.
IDC III 13 23 02 42.3–71 22.02S 176.36W 0 4.1,4.0
¶17195009
IDC Error ellipse: s-maj=1313.0km s-min=183.9km az=86.0.
ISC III 14 02 50 20.3–.62 26.01S–.09 177.7W–.20 161 3.8b 23 3-167
ISCJB III 14 02 50 19.7–.61 25.99S–.07 177.8W–.10 161 3.7b **¶16461678**
IDC III 14 02 50 22.6–2.7 26.19S 177.69W 184–27 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=9.8km az=2.9.
IDC Error ellipse: s-maj=34.7km s-min=17.7km az=171.0.
ISC III 14 08 35 07.9–1.4 24.45S–.08 176.3W–.20 43 4.2b 13 5-151
IDC III 14 08 35 01.7–3.6 24.40S 176.32W 0 4.0,3.9 **¶16477782**
NEIC III 14 08 35 03.4–1.2 24.47S 176.30W 10 4.3b,3.9
ISCJB III 14 08 35 05.8–1.4 24.41S–.07 176.3W–.20 43 4.3b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 14 09 16 34.0–4.1 22.25S 177.13W 0 4.2,4.1
¶17195123
IDC Error ellipse: s-maj=170.8km s-min=55.8km az=148.0.
ISC III 14 16 25 48.2–.52 19.6S–.10 178.4E–.10 35 4.1b,4.0s 44 2-173
IDC III 14 16 25 41.6–.94 19.97S 178.51E 0 4.4,4.2L **¶16338006**
ISCJB III 14 16 25 46.2–.46 19.53S–.07 178.4E–.10 33 4.2b,4.0s
NEIC III 14 16 25 47.7–.52 19.40S 178.29E 35 4.7b,4.0s
GCMT III 14 16 25 47.7–.30 19.46S 178.33E 15–1 5.0W,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=42.0km s-min=17.0km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=9.3km az=22.7.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=11.6km az=117.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c32; s88,c131; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.18±.12 $M_{\theta\theta}$-3.30±.12; $M_{\phi\phi}$3.48±.12; $M_{r\theta}$0.01±.20; $M_{\theta\phi}$0.30±.09; $M_{r\theta}$0.43±.21; Best double couple: NP1:ϕ_s317.00000°,δ85.00000°,λ175.00000°. NP2:ϕ_s48.00000°,δ85.00000°,λ5.00000°. Principal axes: T 3.5440,Plg7.0000°,Azm273.0000°; N -0.2350,Plg83.0000°,Azm95.0000°; P -3.3130,Plg0.0000°,Azm3.0000° M_o3.42900×10^{16}
IDC III 15 01 42 47.1–59 19.19S 179.87E 0 4.7,4.5
¶17195977
IDC Error ellipse: s-maj=1058.0km s-min=144.1km az=80.0.
IDC III 15 15 17 05.3–13 23.65S 179.95E 663–177 4.1,3.3
¶17196171
IDC Error ellipse: s-maj=69.1km s-min=26.5km az=69.0.
ISC III 15 20 07 28.4–1.3 24.3S–.10 179.8E–.20 526 3.9b 9 14-91
IDC III 15 20 07 26.4–3.1 24.10S 179.82E 500–32 4.4,3.6 **¶17196236**
ISCJB III 15 20 07 27.5–1.3 24.1S–.10 179.7E–.20 526 4.0b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 16 18 48 57.5–4.3 19.27S 178.26E 0 4.0s,4.0
¶17196512
IDC Error ellipse: s-maj=169.4km s-min=52.2km az=143.0.
ISC III 16 22 06 54.2–.55 24.01S–.08 179.83W–.10 518 4.6b 56 5-169
ISCJB III 16 22 06 53.5–.57 23.94S–.07 179.89W–.09 518 4.5b **¶16478685**
NEIC III 16 22 06 53.2–.87 23.73S 179.73W 510–9 4.8b
GCMT III 16 22 06 53.2–3.9 23.73S 179.73W 510 4.9W
IDC III 16 22 06 54.1–1.7 23.78S 179.83W 513–16 4.8,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=8.5km az=157.3.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=10.1km az=149.0.
GCMT nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s126,c213;Duration: 1ŝ1 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.87±.85 $M_{\theta\theta}$-0.86±1.45; $M_{\phi\phi}$1.74±1.43; $M_{r\theta}$-1.32±1.42; $M_{\theta\phi}$1.59±1.27; $M_{\theta r}$-1.82±1.37; Best double couple: NP1:ϕ_s50.00000°,δ77.00000°,λ-61.00000°. NP2:ϕ_s162.00000°,δ31.00000°,λ-154.00000°. Principal axes: T 3.5940,Plg26.0000°,Azm118.0000°; N -1.3870,Plg28.0000°,Azm223.0000°; P -2.2040,Plg50.0000°,Azm352.0000° M_o2.89900×10^{16}
IDC Error ellipse: s-maj=17.1km s-min=14.8km az=25.0.
ISC III 17 11 18 59.6–.84 22.4S–.20 179.6W–.10 579 4.2b 18 16-171
ISCJB III 17 11 18 59.2–.97 22.4S–.20 179.7W–.20 579 4.1b **¶17196693**
IDC III 17 11 19 00.1–4.6 22.29S 179.56W 582–49 4.5,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=18.0km az=157.3.
IDC Error ellipse: s-maj=32.0km s-min=27.3km az=29.0.
ISC III 17 22 14 06.5–.73 26.2S–.10 176.4W–.20 35 4.2b,3.8s 20 3-167
IDC III 17 22 14 01.4–.89 26.21S 176.42W 0 4.9L,4.4 **¶16479018**
ISCJB III 17 22 14 05.6–.59 26.19S–.08 176.5W–.10 35 4.2b,3.7s
NEIC III 17 22 14 09.3–1.4 26.44S 176.42W 62–12 4.4b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=35.0km s-min=20.7km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=8.8km az=27.1.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=12.4km az=123.0.
IDC III 18 03 12 01.7–47 23.94S 177.94W 0 4.0,3.8
¶17196923
IDC Error ellipse: s-maj=860.9km s-min=167.1km az=88.0.
IDC III 18 20 57 50.1–4.5 23.51S 177.72W 0 3.7,3.4
¶17197082
IDC Error ellipse: s-maj=285.9km s-min=58.3km az=158.0.
IDC III 19 12 59 30.1–29 23.71S 178.65W 626–348 3.7,2.9

¶17197238
IDC Error ellipse: s-maj=275.9km s-min=80.6km az=140.0.
ISC III 19 19 07 44.4–.98 23.8S–.10 179.9W–.20 532 3.8b 10 15-148
IDC III 19 19 07 43.8–3.0 23.71S 179.94W 522–32 4.1,3.4 ¶17197303
ISCJB III 19 19 07 43.7–.95 23.6S–.10 180.0E–.20 532 3.7b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 21 07 40.1–15 22.54S 178.06W 0 3.9,3.8
¶17197328
IDC Error ellipse: s-maj=278.7km s-min=49.0km az=76.0.
ISC III 20 19 46 54.1–.52 25.24S–.06 179.77E–.06 495–4 4.7b 241 8-168
IDC III 20 19 46 52.7–1.1 25.25S 179.78E 478–10 4.8,4.1 ¶16462028
ISCJB III 20 19 46 52.2–.99 25.29S–.06 179.69E–.04 476–11 4.6b,4.1
MOS III 20 19 46 53.7–.80 25.17S 179.59E 491 5.4b,4.1
NEIC III 20 19 46 54.1–.91 25.26S 179.65E 491–10 5.0b,4.1
BJI III 20 19 46 55.9 25.10S 179.50E 513 4.9b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.0km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=163.1.
MOS Error ellipse: s-maj=12.7km s-min=11.4km az=169.5.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.9km az=162.0.
ISC III 21 18 41 25.7–.82 25.6S–.10 179.6E–.10 507 3.7b 14 13-146
IDC III 21 18 41 23.8–3.9 25.53S 179.59E 481–46 4.2,3.6 ¶17197734
ISCJB III 21 18 41 25.2–.70 25.54S–.09 179.5E–.10 507 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 22 00 05 26.8–5.3 24.73S 179.89E 373–65 4.2,3.6
¶17197885
IDC Error ellipse: s-maj=105.0km s-min=29.7km az=173.0.
IDC III 22 18 30 19.6–65 22.42S 179.96E 0 4.5s,4.5
¶17198052
IDC Error ellipse: s-maj=1174.0km s-min=157.4km az=85.0.
IDC III 23 03 52 38.1–3.6 23.75S 179.56W 484–27 4.5,3.7
¶17198118
IDC Error ellipse: s-maj=53.1km s-min=37.1km az=2.0.
ISC III 23 15 04 51.3–.49 25.29S–.06 177.3W–.10 160 4.3b 58 4-168
BJI III 23 15 04 48.0 25.40S 177.30W 150 5.2b,4.8b ¶16352080
ISCJB III 23 15 04 50.2–.33 25.27S–.05 177.37W–.09 160 4.3b,4.8b
IDC III 23 15 04 50.9–3.0 25.31S 177.26W 161–30 4.5,4.2
NEIC III 23 15 04 50.7–1.2 25.36S 177.30W 159–11 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=6.5km az=12.2.
IDC Error ellipse: s-maj=28.8km s-min=17.0km az=168.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.1km az=109.0.
IDC III 24 02 13 59.4–17 25.14S 179.27E 604–174 4.7,3.8
¶17198272
IDC Error ellipse: s-maj=134.7km s-min=88.0km az=85.0.
ISC III 24 21 12 04.8–.90 23.8S–.10 178.3W–.20 35 4.1b 15 5-149
IDC III 24 21 12 00.0–3.6 23.89S 178.27W 0 4.2,4.0 ¶16480704
NEIC III 24 21 12 01.2–.44 23.72S 178.28W 10 4.1b,4.0
ISCJB III 24 21 12 02.5–.92 23.8S–.10 178.2W–.20 33 4.3b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 25 17 49 23.4–5.0 23.57S 179.97E 0 4.3,4.1
¶17198538
IDC Error ellipse: s-maj=248.9km s-min=57.6km az=155.0.
ISC III 26 08 36 10.6–.60 24.5S–.10 178.9E–.10 549 3.8b 29 12-168
ISCJB III 26 08 36 10.2–.58 24.5S–.10 178.9E–.10 549 3.9b ¶16459592
IDC III 26 08 36 12.7–1.9 24.40S 178.84E 566–21 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=12.6km az=166.0.
IDC Error ellipse: s-maj=20.6km s-min=13.0km az=162.0.
IDC III 26 09 04 30.7–9.7 23.96S 179.28E 586–78 4.1,3.2
¶17198620
IDC Error ellipse: s-maj=120.2km s-min=55.0km az=128.0.
IDC III 27 06 12 28.6–86 22.27S 177.57W 0 4.0,3.8
¶17198742
IDC Error ellipse: s-maj=1572.0km s-min=191.0km az=86.0.
ISC III 27 10 59 25.1–.41 24.05S–.04 180.00E–.04 516–4 5.0b 863 6-169
ISCJB III 27 10 59 23.0–.56 24.02S–.03 179.90E–.03 495–6 5.0b ¶16459614
IDC III 27 10 59 24.0–.94 24.02S 179.98W 502–9 5.3,4.5
MOS III 27 10 59 24.1–.79 24.01S 179.91E 509 5.0b,4.5
GCMT III 27 10 59 25.9–.60 24.47S 179.97E 527–3 5.3W,4.5
BJI III 27 10 59 25.7 24.10S 179.90E 520 4.9b,4.7b
NEIC III 27 10 59 25.9–.37 24.08S 179.90E 523–4 5.0b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=155.0.
IDC Error ellipse: s-maj=9.6km s-min=8.5km az=170.0.
MOS Error ellipse: s-maj=9.0km s-min=7.2km az=55.7.
GCMT Error ellipse: s-maj=5.6km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s52,c69;Duration: 1$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.04±.04 $M_{\theta\theta}$0.54±.08; $M_{\phi\phi}$-0.58±.06; $M_{r\theta}$0.01±.07; $M_{\theta\phi}$-0.79±.07; $M_{\theta r}$-0.74±.06; Best double couple: NP1:ϕ_s343.00000°,δ87.00000°,λ-36.00000°. NP2:ϕ_s75.00000°,δ54.00000°,λ-177.00000°. Principal axes: T 1.0970,Plg22.0000°,Azm35.0000°; N 0.2200,Plg54.0000°,Azm159.0000° ; P -1.3180,Plg27.0000°,Azm293.0000° $M_0$1.20700×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=142.0.
IDC III 27 15 11 14.3–1.6 27.00S 177.34W 0 4.8L,4.1
¶17198805
IDC Error ellipse: s-maj=45.2km s-min=32.5km az=130.0.
ISC III 28 16 46 05.9–1.8 24.2S–.50 178.8W–.30 400 3.8b 16 33-149
IDC III 28 16 46 05.0–15 24.25S 178.79W 390–138 4.3,3.7 ¶17198974
ISC Event type ke.
IDC Error ellipse: s-maj=101.2km s-min=47.6km az=117.0.
ISC III 28 17 17 05.4–.46 23.97S–.08 179.6W–.10 512 3.8b 67 12-169
IDC III 28 17 17 04.9–1.7 23.98S 179.73W 497–18 4.4,3.7 ¶16459628
ISCJB III 28 17 17 04.5–.47 23.97S–.07 179.59W–.09 512 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 29 07 41 13.5–.36 24.37S–.06 180.00E–.07 517 4.6b 141 5-169
IDC III 29 07 41 11.6–1.2 24.40S 179.99E 497–12 4.6,3.9 ¶16459633
BJI III 29 07 41 11.9 24.30S 179.90E 503 4.9b,4.8b
NEIC III 29 07 41 12.8–.50 24.34S 179.90E 504–5 4.6b,4.8b
ISCJB III 29 07 41 13.1–.22 24.39S–.05 179.84E–.05 517 4.5b,4.8b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 30 00 55 39.1–1.1 23.7S–.20 179.9W–.20 532 3.7b 11 15-169
ISCJB III 30 00 55 38.6–1.1 23.8S–.20 180.0E–.20 532 3.7b ¶17199131
IDC III 30 00 55 40.6–5.0 23.82S 179.92E 534–55 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.3km s-min=22.5km az=24.1.
IDC Error ellipse: s-maj=31.9km s-min=21.2km az=30.0.
IDC III 30 02 35 53.0–1.5 23.58S 178.77W 0 4.4,4.2
¶17199148
IDC Error ellipse: s-maj=40.3km s-min=34.4km az=144.0.
ISC III 30 06 37 19.1–.27 22.11S–.06 179.53W–.05 592 4.7b 381 5-171
ISCJB III 30 06 37 18.6–.16 22.17S–.04 179.61W–.03 592 4.7b ¶16392159
IDC III 30 06 37 19.4–.85 22.11S 179.61W 590–8 5.0,4.2
NEIC III 30 06 37 19.8–.48 22.07S 179.66W 594–5 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.4km az=161.2.
IDC Error ellipse: s-maj=11.4km s-min=8.2km az=171.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.1km az=165.0.
ISC IV 01 16 06 45.2–.69 23.90S–.08 179.9W–.10 518 4.4b 49 6-169
NEIC IV 01 16 06 43.0–1.2 23.75S 179.78W 496–12 4.8b ¶16506150
ISCJB IV 01 16 06 44.2–.60 23.78S–.05 179.9W–.10 518 4.3b
IDC IV 01 16 06 46.2–4.5 23.71S 179.90W 524–47 4.7,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.4km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=6.1km az=175.8.

IDC Error ellipse: s-maj=26.9km s-min=14.2km az=66.0.
ISC IV 02 17 07 36.6–1.1 24.7S–.10 178.1W–.20 400 4.5b 28 8-89
IDC IV 02 17 06 53.4–46 23.61S 177.73W 0 4.2,4.0 ¶16577636
NEIC IV 02 17 07 37.2–1.1 24.67S 178.00W 419–14 4.8b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=836.3km s-min=149.9km az=87.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=9.2km az=97.0.
ISC IV 02 18 50 22.5–.45 24.48S–.05 179.71W–.05 483–4 4.8b 507 7-169
BJI IV 02 18 50 16.1 24.43S 179.03W 448 5.2b,4.7b ¶16506159
ISCJB IV 02 18 50 21.5–.64 24.48S–.03 179.86W–.04 474–7 4.8b,4.7b
NEIC IV 02 18 50 22.6–.61 24.51S 179.69W 488–6 5.1b,4.7b
MOS IV 02 18 50 23.8–3.4 24.27S 179.85E 463 5.4b,4.7b
IDC IV 02 18 50 24.1–.95 24.37S 179.93W 491–8 4.9,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=14.3.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.9km az=113.0.
MOS Error ellipse: s-maj=13.4km s-min=11.2km az=21.5.
IDC Error ellipse: s-maj=10.7km s-min=9.7km az=117.0.
IDC IV 04 08 30 21.3–19 24.39S 178.94W 494–196 4.4,3.7
¶17199748
IDC Error ellipse: s-maj=149.4km s-min=35.3km az=50.0.
IDC IV 05 00 00 22.4–10 22.73S 176.22W 374–109 4.0,3.5
¶17199822
IDC Error ellipse: s-maj=123.0km s-min=35.6km az=155.0.
IDC IV 05 16 50 24.9–3.0 23.97S 179.76E 496–25 4.4,3.7
¶17199915
IDC Error ellipse: s-maj=81.0km s-min=27.7km az=161.0.
IDC IV 06 16 21 34.4–7.1 19.43S 179.86E 0 3.8,3.8b
¶17200026
IDC Error ellipse: s-maj=197.8km s-min=56.9km az=125.0.
ISC IV 06 16 27 44.3–1.1 23.8S–.10 179.7E–.20 548 4.2b 17 15-169
IDC IV 06 16 27 39.7–3.2 23.44S 179.93W 504–30 4.5,3.8 ¶17200027
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=19.6km az=68.0.
IDC IV 06 22 35 19.4–7.6 23.18S 179.96E 544–80 4.2,3.5
¶17200060
IDC Error ellipse: s-maj=106.8km s-min=44.6km az=167.0.
IDC IV 07 04 22 44.4–67 22.30S 177.29W 0 4.1,3.9b
¶17200079
IDC Error ellipse: s-maj=1234.0km s-min=169.4km az=86.0.
ISC IV 07 06 13 22.1–.38 24.35S–.06 179.90E–.08 517 4.3b 94 7-169
ISCJB IV 07 06 13 21.7–.27 24.38S–.06 179.79E–.06 517 4.2b ¶16413297
IDC IV 07 06 13 21.2–1.6 24.37S 179.96E 503–16 4.5,3.8
BJI IV 07 06 13 22.5 24.72S 179.78E 548 4.9b,4.5b
NEIC IV 07 06 13 23.7–.69 24.22S 179.73E 530–8 4.4b,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.8km az=135.4.
IDC Error ellipse: s-maj=14.0km s-min=13.4km az=22.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.4km az=135.0.
ISC IV 07 10 40 29.3–1.4 24.2S–.20 179.5W–.20 512 3.9b 7 13-43
ISCJB IV 07 10 40 28.0–1.2 24.2S–.20 179.5W–.20 512 4.0b ¶17200100
IDC IV 07 10 40 27.5–2.5 24.21S 179.62W 476–29 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.4km s-min=17.2km az=136.7.
IDC Error ellipse: s-maj=34.2km s-min=29.1km az=81.0.
IDC IV 07 12 56 14.6–2.1 22.64S 179.76W 0 4.0,3.8
¶17200115
IDC Error ellipse: s-maj=165.6km s-min=32.7km az=160.0.
ISC IV 08 18 25 23.0–1.2 25.0S–.20 179.7E–.20 500 3.9b 18 13-148
IDC IV 08 18 24 32.8–1.3 22.59S 179.71E 0 4.5,4.5L ¶16577762
NEIC IV 08 18 25 04.8–.67 24.00S 179.78E 300 4.6b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=59.3km s-min=25.1km az=154.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=13.5km az=111.0.
ISC IV 09 01 57 34.3–1.8 23.6S–.10 179.8W–.20 526 4.3b 14 15-148
NEIC IV 09 01 57 25.6–4.4 23.00S 179.38W 450–45 4.2b ¶16529579
IDC IV 09 01 57 25.8–6.2 23.02S 179.61W 429–58 4.6,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=44.1km s-min=24.2km az=220.0.
IDC Error ellipse: s-maj=45.3km s-min=33.9km az=51.0.
ISC IV 10 13 16 13.8–2.2 23.8S–.20 179.4E–.30 537 3.8b 7 12-169
IDC IV 10 13 16 15.0–5.1 23.76S 179.26E 541–44 4.2,3.4 ¶17200464
ISC Event type ke.
IDC Error ellipse: s-maj=59.9km s-min=33.4km az=38.0.
IDC IV 10 14 35 18.0–15 23.32S 179.92E 640–207 4.2,3.3
¶17200472
IDC Error ellipse: s-maj=105.0km s-min=73.2km az=148.0.
ISC IV 10 16 18 18.9–.38 23.63S–.04 179.95E–.04 528–3 4.8b 755 6-175
ISCJB IV 10 16 18 18.0–.47 23.65S–.03 179.83E–.02 521–5 4.8b ¶16416048
MOS IV 10 16 18 17.9–.92 23.59S 179.85E 519 4.9b
GCMT IV 10 16 18 18.5–.60 23.57S 179.91E 534–3 5.3W
IDC IV 10 16 18 18.8–.60 23.61S 179.85E 521–6 5.2,4.4
NEIC IV 10 16 18 18.4–.10 23.60S 179.84E 518 5.0b,4.4
BJI IV 10 16 18 18.4 23.60S 179.80E 523 4.9b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=164.0.
MOS Error ellipse: s-maj=9.2km s-min=9.1km az=3.8.
GCMT Error ellipse: s-maj=5.6km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s50,c69;Duration: 1$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10±.04 $M_{\theta\theta}$-0.16±.07; $M_{\phi\phi}$0.06±.07; $M_{r\theta}$-0.18±.06; $M_{\theta\phi}$-0.70±.05; $M_{\theta r}$-0.69±.06; Best double couple: NP1:ϕ_s188.00000°,δ87.00000°,λ46.00000°. NP2:ϕ_s96.00000°,δ44.00000°,λ176.00000°. Principal axes: T 0.9210,Plg33.0000°,Azm62.0000°; N 0.1500,Plg44.0000°,Azm191.0000° ; P -1.0710,Plg28.0000°,Azm312.0000° $M_0$0.99600×10^{17}
IDC Error ellipse: s-maj=9.9km s-min=7.4km az=175.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.0km az=149.0.
ISC IV 10 21 16 38.1–1.6 23.1S–.40 177.1W–.30 167 4.4b 16 34-153
ISCJB IV 10 21 16 37.4–2.4 23.1S–.50 177.2W–.40 167 4.3b ¶17200504
IDC IV 10 21 16 40.3–16 23.15S 177.17W 185–135 4.5,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=77.2km s-min=27.5km az=145.6.
IDC Error ellipse: s-maj=91.0km s-min=41.6km az=126.0.
ISC IV 11 16 32 22.7–.86 22.1S–.10 179.6W–.10 592 3.9b 14 13-147
ISCJB IV 11 16 32 21.2–.76 22.24S–.09 179.6W–.10 592 3.7b ¶17200654
IDC IV 11 16 32 21.6–4.4 21.87S 179.60W 573–50 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=12.3km az=6.8.
IDC Error ellipse: s-maj=25.9km s-min=21.9km az=79.0.
IDC IV 12 11 24 53.3–14 24.36S 179.92E 555–169 4.2,3.4
¶17200770
IDC Error ellipse: s-maj=87.3km s-min=58.1km az=164.0.
ISC IV 15 11 27 33.0–5.6 25.3S–.30 180.0E–.70 507 3.5b 7 13-51
IDC IV 15 11 27 28.5–11 25.01S 179.68E 422–128 4.1,3.3 ¶17201127
ISC Event type ke.
IDC Error ellipse: s-maj=138.5km s-min=47.6km az=61.0.
IDC IV 15 20 22 42.1–5.8 20.51S 179.57E 193–43 3.7,3.3
¶17201168
IDC Error ellipse: s-maj=332.5km s-min=24.8km az=152.0.
ISC IV 16 03 11 42.5–.58 26.2S–.10 177.9W–.10 250 3.9b 25 15-167
ISCJB IV 16 03 11 41.4–.57 26.2S–.10 178.0W–.10 250 3.8b ¶16505403
IDC IV 16 03 11 43.4–6.2 26.18S 177.97W 258–56 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=14.4km az=174.9.
IDC Error ellipse: s-maj=22.0km s-min=16.3km az=67.0.
ISC IV 16 06 49 27.1–1.0 24.2S–.20 179.9W–.20 518 4.0b 17 13-169
IDC IV 16 06 49 23.2–3.0 24.11S 179.82W 479–27 4.3,3.6 ¶17201195
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=21.4km az=55.0.
IDC IV 16 14 53 20.6–2.9 22.85S 179.91E 505–26 4.3,3.7
¶17201234
IDC Error ellipse: s-maj=109.2km s-min=21.2km az=158.0.
ISC IV 19 12 28 34.0–.75 23.2S–.10 179.7W–.10 500 4.0b 14 12-147

ISCJB IV 19 12 28 33.5–.60 23.18S–.09 179.8W–.10 500 4.1b ¶17201496
IDC IV 19 12 28 36.0–2.3 23.12S 179.82W 522–27 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=8.5km az=38.1.
IDC Error ellipse: s-maj=29.5km s-min=15.5km az=159.0.
ISC IV 20 03 49 22.3–.89 24.0S–.20 180.0W–.20 532 3.9b 11 14-148
IDC IV 20 03 49 15.1–6.5 23.58S 179.93W 436–76 4.5,3.9 ¶17201584
ISCJB IV 20 03 49 21.8–.79 23.9S–.20 179.9E–.20 532 4.0b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 08 24 39.7–.93 25.2S–.10 179.8E–.10 501 3.9b 14 13-146
IDC IV 20 08 24 36.9–2.3 25.16S 179.93E 474–23 4.2,3.6 ¶17201603
ISCJB IV 20 08 24 38.7–.88 25.15S–.10 179.7E–.10 501 3.8b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 13 15 25.5–1.0 23.6S–.10 179.5W–.20 536 4.0b 9 12-145
IDC IV 20 13 15 25.4–2.9 23.52S 179.62W 529–40 4.4,3.5 ¶17201617
ISC Event type ke.
IDC Error ellipse: s-maj=33.0km s-min=26.7km az=116.0.
ISC IV 20 14 43 15.4–.82 24.3S–.10 176.2W–.10 30 4.0b 13 5-147
IDC IV 20 14 43 11.3–1.6 24.24S 176.32W 0 4.3,4.3 ¶16485029
ISCJB IV 20 14 43 12.9–.69 24.25S–.09 176.2W–.10 30 4.0b,3.3s
NEIC IV 20 14 43 17.0–1.1 24.42S 176.01W 58–14 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=54.8km s-min=27.9km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=11.0km az=39.3.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=11.5km az=111.0.
ISC IV 21 02 45 10.9–1.9 23.9S–.20 179.5W–.30 500 4.4b 10 6-148
IDC IV 21 02 45 11.3–2.3 23.89S 179.82E 437–29 4.4,3.6 ¶17201666
ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=22.6km az=61.0.
ISC IV 21 09 11 32.0–.49 26.38S–.05 177.9W–.10 250 4.0b 92 3-167
IDC IV 21 09 11 28.2–1.6 25.68S 177.87W 198–14 4.3,4.0 ¶16505464
NEIC IV 21 09 11 28.5–1.0 25.69S 177.69W 206–9 4.8b,4.0
ISCJB IV 21 09 11 30.6–.52 26.28S–.03 177.8W–.10 250 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 21 19 43 11.4–1.3 26.9S–.20 176.1W–.30 31 4.2b,3.5s 19 3-152
IDC IV 21 19 43 06.7–1.4 26.84S 176.16W 0 4.6L,4.4 ¶16505471
NEIC IV 21 19 43 12.0–.98 26.84S 176.18W 35 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=52.7km s-min=28.2km az=133.0.
NEIC Event type se. Error ellipse: s-maj=32.0km s-min=16.8km az=124.0.
ISC IV 21 22 31 19.8–.34 26.75S–.06 176.03W–.07 31 5.1b,4.1s 274 3-166
IDC IV 21 22 31 15.0–.67 26.70S 176.18W 0 4.6,4.6L ¶16451673
BJI IV 21 22 31 18.6 26.73S 176.04W 26 5.4b,5.1b
ISCJB IV 21 22 31 18.8–.20 26.80S–.05 176.23W–.05 31 5.0b,4.1s
NEIC IV 21 22 31 20.8–.77 26.77S 176.23W 35–7 5.1b,4.1s
GCMT IV 21 22 31 20.8–.40 26.86S 175.71W 21–1 5.0W,4.1s
MOS IV 21 22 31 21.1–1.1 26.75S 176.31W 49 5.2b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=27.4km s-min=15.9km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=143.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.7km az=151.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s73,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.32±.23 $M_{\theta\theta}$-0.31±.14; $M_{\phi\phi}$-3.01±.15; $M_{r\theta}$0.52±.30; $M_{\theta\phi}$-0.57±.09; $M_{\phi r}$-0.01±.25; Best double couple: NP1:ϕ_s20.00000°,δ46.00000°,λ101.00000°. NP2:ϕ_s183.00000°,δ45.00000°,λ78.00000°. Principal axes: T 3.3940,Plg82.0000°,Azm5.0000°; N -0.2670,Plg8.0000°,Azm192.0000°; P -3.1270,Plg1.0000°,Azm102.0000° M_o3.26100×10^{16}
MOS Error ellipse: s-maj=11.5km s-min=9.4km az=62.7.
ISC IV 22 18 13 29.9–.44 24.44S–.05 179.99W–.06 512–4 4.5b 485 5-164
ISCJB IV 22 18 13 28.8–.62 24.47S–.03 179.88E–.04 503–7 4.5b ¶16451868
MOS IV 22 18 13 28.8–.78 24.35S 179.85E 503 4.7b
BJI IV 22 18 13 29.4 24.20S 180.00E 512 5.0b,4.5b
NEIC IV 22 18 13 29.3–.13 24.41S 179.90E 504 4.6b,4.5b
IDC IV 22 18 13 30.1–.55 24.30S 179.87E 511–5 4.7,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.7km az=33.4.
MOS Error ellipse: s-maj=10.8km s-min=9.5km az=49.1.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=132.0.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=164.0.
ISC IV 22 19 18 58.0–1.3 24.1S–.10 179.8W–.20 518 4.1b 11 13-90
IDC IV 22 19 18 54.3–3.0 23.85S 179.77W 473–39 4.5,3.7 ¶17201831
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=20.2km az=155.0.
IDC IV 23 06 40 28.6–4.7 25.49S 179.87W 504–49 4.3,3.5
¶16505501
IDC Error ellipse: s-maj=35.5km s-min=34.3km az=50.0.
IDC IV 23 15 41 54.2–68 22.44S 179.56W 0 3.9,3.7
¶17201887
IDC Error ellipse: s-maj=1219.0km s-min=163.4km az=85.0.
ISC IV 24 15 23 56.6–.60 22.1S–.10 177.00W–.10 223 3.9b 27 6-171
IDC IV 24 15 23 46.5–3.5 22.06S 176.90W 131–32 4.2,4.0 ¶16553311
ISCJB IV 24 15 23 55.0–.52 22.2S–.10 177.08W–.08 223 3.8b,4.0
NEIC IV 24 15 23 57.3–1.4 22.08S 177.13W 229–13 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=15.6km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=10.9km az=2.8.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.3km az=167.0.
ISC IV 25 00 10 35.9–1.0 24.2S–.30 179.9E–.20 526 4.0b 12 13-169
ISCJB IV 25 00 10 35.3–1.3 24.3S–.50 179.8E–.20 526 4.0b ¶17201994
IDC IV 25 00 10 36.6–5.1 24.21S 179.84E 530–55 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=72.0km s-min=17.4km az=164.3.
IDC Error ellipse: s-maj=46.2km s-min=26.2km az=153.0.
IDC IV 25 03 16 14.4–5.9 22.48S 179.27E 517–40 4.2,3.4
¶17202008
IDC Error ellipse: s-maj=127.6km s-min=45.9km az=147.0.
IDC IV 25 07 04 32.5–7.6 22.58S 177.25W 0 3.4,3.3
¶17202023
IDC Error ellipse: s-maj=396.7km s-min=109.7km az=158.0.
ISC IV 25 08 43 40.8–1.6 25.0S–.10 179.8W–.20 496 4.1b 11 13-146
ISCJB IV 25 08 43 40.4–4.2 24.9S–.20 179.9W–.60 496 4.1b ¶17202030
IDC IV 25 08 43 45.4–7.8 25.24S 179.96W 538–82 4.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=74.5km s-min=14.2km az=160.4.
IDC Error ellipse: s-maj=63.6km s-min=25.4km az=36.0.
ISC IV 26 19 01 41.0–.34 24.92S–.05 179.83E–.06 501 4.5b 192 5-168
ISCJB IV 26 19 01 40.6–.19 24.93S–.03 179.68E–.05 501 4.4b ¶16505541
NEIC IV 26 19 01 41.7–.57 24.98S 179.68E 508–7 4.7b
IDC IV 26 19 01 42.1–.87 24.98S 179.72E 509–9 4.6,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.7km az=20.5.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.5km az=115.0.
IDC Error ellipse: s-maj=11.7km s-min=9.1km az=159.0.
IDC IV 27 21 23 04.5–3.6 23.78S 176.92W 0 4.5L,4.2
¶17202260
IDC Error ellipse: s-maj=143.2km s-min=33.3km az=143.0.
IDC IV 28 17 00 09.6–10 26.10S 179.81W 478–115 4.1,3.3
¶16505564
IDC Error ellipse: s-maj=91.3km s-min=44.6km az=25.0.
ISC IV 28 18 57 53.1–.42 23.34S–.08 179.97E–.09 535 3.9b 54 6-170
ISCJB IV 28 18 57 52.4–.42 23.30S–.06 179.89E–.09 535 4.0b ¶16505566
IDC IV 28 18 57 53.0–.65 23.29S 179.87E 527–6 4.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.6km az=2.2.
IDC Error ellipse: s-maj=12.2km s-min=11.3km az=103.0.
IDC IV 30 03 52 39.6–3.0 24.36S 176.55W 0 4.0,3.7
¶16505585
IDC Error ellipse: s-maj=163.1km s-min=31.7km az=153.0.
IDC IV 30 04 28 11.7–24 24.12S 179.66E 604–251 4.3,3.4
¶17202434
IDC Error ellipse: s-maj=179.9km s-min=83.8km az=83.0.
ISC V 01 10 11 38.1–.93 25.3S–.10 179.8E–.10 493 3.8b 17 4-148
ISCJB V 01 10 11 38.3–.85 25.18S–.09 179.6E–.10 493 3.8b ¶16577939
IDC V 01 10 11 41.0–1.3 25.47S 179.76E 533–15 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=11.4km az=169.5.
IDC Error ellipse: s-maj=27.1km s-min=14.0km az=161.0.
IDC V 02 07 48 50.3–33 22.51S 179.35W 0 4.2,4.0
¶17202594
IDC Error ellipse: s-maj=608.7km s-min=145.6km az=90.0.
IDC V 02 16 39 09.4–22 23.83S 179.55E 628–221 4.1,3.1
¶17202623
IDC Error ellipse: s-maj=177.0km s-min=92.9km az=84.0.
IDC V 02 18 03 58.4–27 22.68S 178.61W 461–97 4.1,3.4
¶17202628
IDC Error ellipse: s-maj=359.0km s-min=101.6km az=80.0.
IDC V 02 21 51 54.3–64 20.08S 179.31E 0 3.8,3.6
¶17202644
IDC Error ellipse: s-maj=1147.0km s-min=159.1km az=81.0.
IDC V 03 11 28 47.8–4.1 24.20S 179.56E 550–45 3.8,3.1
¶17202672
IDC Error ellipse: s-maj=29.3km s-min=26.0km az=11.0.
ISC V 03 13 03 25.1–1.8 22.5S–.40 177.2W–.30 350 3.3b 12 10-152
IDC V 03 13 03 26.8–5.1 22.56S 177.03W 379–35 4.0,3.3 ¶17202676
ISC Event type ke.
IDC Error ellipse: s-maj=110.0km s-min=17.8km az=145.0.
ISC V 04 14 11 01.7–.96 24.2S–.20 179.9E–.20 517 3.5b 8 14-132
ISCJB V 04 14 11 01.0–.94 24.2S–.20 179.8E–.20 517 3.5b ¶17202762
IDC V 04 14 11 03.7–5.9 24.31S 179.86E 540–70 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.9km s-min=19.9km az=144.7.
IDC Error ellipse: s-maj=35.1km s-min=23.1km az=22.0.
IDC V 04 18 30 14.8–55 22.21S 176.59W 0 4.4,4.2
¶17202782
IDC Error ellipse: s-maj=1013.0km s-min=165.2km az=86.0.
ISC V 04 23 17 17.4–1.2 23.7S–.40 176.1W–.20 33 4.0b,3.4s 9 15-151
IDC V 04 23 17 12.3–1.1 23.70S 176.01W 0 4.3,4.1b ¶17202804
ISCJB V 04 23 17 16.1–1.2 23.7S–.40 176.1W–.20 33 4.1b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC V 05 13 02 13.8–42 23.38S 177.42W 0 4.3,4.1
¶17202848
IDC Error ellipse: s-maj=780.5km s-min=149.6km az=87.0.
ISC V 05 16 15 25.3–.21 25.22S–.04 177.37W–.04 185–1 5.3b 1549 4-176
BJI V 05 16 15 18.0 25.10S 177.50W 130 5.5b,5.4b ¶16497755
MOS V 05 16 15 22.4–.85 24.98S 177.55W 161 5.3b,5.4b
ISCJB V 05 16 15 24.5–.11 25.16S–.03 177.56W–.02 185 5.3b,5.4b
GCMT V 05 16 15 25.1–.20 25.12S 177.16W 186–1 5.6W,5.4b
NEIC V 05 16 15 25.1–.09 25.19S 177.55W 185 5.3b,5.4b
IDC V 05 16 15 26.1–.37 25.02S 177.54W 184–2 5.2,4.9
ISC Event type se.
MOS Error ellipse: s-maj=9.0km s-min=7.2km az=82.5.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.5km az=152.7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c125; s120,c224;Duration: 1$\hat{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.35±.05 $M_{\theta\theta}$-3.42±.07; $M_{\phi\phi}$0.06±.07; $M_{r\theta}$-0.89±.06; $M_{\theta\phi}$0.12±.07; $M_{\phi r}$-0.17±.06; Best double couple: NP1:ϕ_s269.00000°,δ52.00000°,λ86.00000°. NP2:ϕ_s95.00000°,δ38.00000°,λ95.00000°. Principal axes: T 3.4750,Plg82.0000°,Azm157.0000°; N 0.0550,Plg3.0000°,Azm271.0000°; P -3.5380,Plg7.0000°,Azm2.0000° M_o3.50600×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=144.0.
IDC Error ellipse: s-maj=10.8km s-min=8.0km az=163.0.
IDC V 05 22 19 28.4–31 23.00S 176.39W 0 4.0,3.9
¶17202881
IDC Error ellipse: s-maj=558.8km s-min=141.6km az=79.0.
ISC V 06 21 46 30.7–.50 25.43S–.06 177.4W–.10 160 4.3b 49 4-150
NEIC V 06 21 46 28.0–1.1 25.28S 177.40W 134–10 4.6b ¶16578033
IDC V 06 21 46 28.4–3.9 25.30S 177.49W 132–35 4.5,4.2
ISCJB V 06 21 46 29.5–.35 25.38S–.05 177.50W–.08 160 4.4b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 07 08 49 26.1–.51 23.42S–.09 179.85W–.08 532 4.6b 94 6-150
ISCJB V 07 08 49 25.3–.24 23.41S–.05 179.90W–.06 532 4.5b ¶16501775
IDC V 07 08 49 26.2–1.5 23.37S 179.83W 540–15 4.4,3.8
NEIC V 07 08 49 27.0–.69 23.43S 179.87W 542–8 4.7b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.2km az=42.0.
IDC Error ellipse: s-maj=21.3km s-min=13.1km az=159.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.5km az=122.0.
ISC V 07 16 23 04.7–.53 23.09S–.10 179.0W–.10 426 3.9b 45 11-170
IDC V 07 16 23 00.9–1.8 23.08S 179.13W 380–17 4.4,3.8 ¶16560926
ISCJB V 07 16 23 04.5–.57 23.07S–.08 179.3W–.10 426 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC V 07 22 30 15.4–9.4 25.47S 179.88E 491–114 4.1,3.5
¶17203008
IDC Error ellipse: s-maj=83.5km s-min=29.7km az=10.0.
IDC V 08 19 47 15.9–9.4 23.51S 179.92E 446–96 4.2,3.6
¶17203071
IDC Error ellipse: s-maj=79.9km s-min=41.3km az=160.0.
IDC V 09 01 52 10.7–2.5 22.71S 178.09W 189–37 4.3,3.9
¶17203095
IDC Error ellipse: s-maj=49.6km s-min=20.1km az=125.0.
IDC V 09 12 25 21.9–9.6 24.59S 179.82E 569–118 3.8,3.1
¶17203122
IDC Error ellipse: s-maj=155.8km s-min=46.6km az=172.0.
ISC V 10 03 11 52.2–.60 24.27S–.07 179.7W–.10 490 4.0b 70 5-169
IDC V 10 03 11 48.8–1.6 23.91S 179.67W 442–15 4.5,3.9 ¶16560946
ISCJB V 10 03 11 50.1–.80 24.21S–.07 179.5W–.10 490 4.0b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 03 22 07.2–5.6 25.88S 179.94W 508–63 4.1,3.5
¶16560947
IDC Error ellipse: s-maj=29.2km s-min=27.6km az=63.0.
IDC V 10 05 15 35.2–2.4 25.05S 179.61W 0 4.4,4.2b
¶17203176
IDC Error ellipse: s-maj=90.1km s-min=30.8km az=154.0.
IDC V 10 07 47 06.7–3.7 23.14S 178.41W 0 4.7,4.6b
¶17203190
IDC Error ellipse: s-maj=147.2km s-min=41.5km az=143.0.
IDC V 11 00 48 44.2–61 19.55S 178.84E 0 5.2,5.0
¶17203339
IDC Error ellipse: s-maj=1089.0km s-min=150.6km az=80.0.
ISC V 11 17 41 46.6–1.3 25.0S–.10 179.5E–.20 507 3.7b 7 13-146
ISCJB V 11 17 41 46.1–1.3 24.9S–.10 179.4E–.20 507 3.8b ¶17203413
IDC V 11 17 41 51.2–7.0 25.21S 179.45E 573–88 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.7km s-min=15.3km az=171.5.
IDC Error ellipse: s-maj=71.1km s-min=27.8km az=15.0.
ISC V 12 10 59 47.3–1.3 22.8S–.40 179.1E–.20 579 4.4b 9 31-144
ISCJB V 12 10 59 46.1–1.2 22.9S–.40 179.1E–.20 579 4.3b ¶17203474
IDC V 12 10 59 52.3–6.4 22.71S 178.94E 642–79 4.6,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=54.1km s-min=17.8km az=160.2.
IDC Error ellipse: s-maj=50.3km s-min=28.4km az=136.0.
ISC V 14 04 27 26.4–.59 23.53S–.08 179.96E–.08 550–5 4.3b 111 6-170

IDC V 14 04 27 25.4–.68 23.37S 179.96W 541–6 4.5,3.8 ¶16510417
ISCJB V 14 04 27 26.0–.87 23.51S–.06 179.91E–.07 556–10 4.3b,3.8
NEIC V 14 04 27 26.1–.69 23.52S 179.97E 547–8 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=12.1km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=7.8km az=138.9.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.0km az=136.0.
ISC V 14 18 49 46.5–.95 24.6S–.10 179.8E–.20 517 3.7b 15 14-169
IDC V 14 18 49 44.0–2.5 24.27S 179.84E 497–23 4.1,3.4 ¶17203630
ISCJB V 14 18 49 45.3–.98 24.4S–.10 179.8E–.20 517 3.7b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC V 16 02 54 59.8–.79 24.9S–.10 179.9E–.10 501 4.2b 20 13-154
ISCJB V 16 02 54 59.4–.77 24.76S–.08 179.8E–.10 501 4.1b ¶16560078
IDC V 16 02 55 01.8–2.4 24.92S 179.81E 524–27 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=11.1km az=5.8.
IDC Error ellipse: s-maj=31.0km s-min=16.0km az=159.0.
ISC V 16 22 38 53.1–.81 25.7S–.20 179.8E–.20 493 3.6b 14 42-167
ISCJB V 16 22 38 52.2–.94 25.7S–.20 179.8E–.20 493 3.6b ¶16560086
IDC V 16 22 38 53.7–7.2 25.62S 179.82E 501–73 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.4km s-min=21.4km az=157.9.
IDC Error ellipse: s-maj=33.8km s-min=23.8km az=90.0.
ISC V 17 13 57 49.4–.33 25.67S–.05 177.04W–.08 100 4.8b 254 4-167
MOS V 17 13 57 42.9–.91 25.41S 177.07W 52 5.2b ¶16560090
IDC V 17 13 57 46.6–2.0 25.41S 176.96W 75–17 4.6,4.5
ISCJB V 17 13 57 47.2–.18 26.06S–.03 176.86W–.05 100 4.8b,4.5
NEIC V 17 13 57 47.8–1.6 25.55S 177.04W 88–14 4.9b,4.5
ISC Event type se.
MOS Error ellipse: s-maj=13.9km s-min=10.5km az=77.0.
IDC Error ellipse: s-maj=16.5km s-min=13.2km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=3.0km az=26.6.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=6.7km az=155.0.
ISC V 17 22 55 07.9–1.8 25.1S–.10 179.1E–.30 545 3.9b 8 13-145
IDC V 17 22 54 57.1–20 24.12S 179.15E 412–212 4.2,3.5 ¶17203843
ISC Event type ke.
IDC Error ellipse: s-maj=174.0km s-min=42.0km az=18.0.
ISC V 18 12 18 55.3–.34 23.85S–.05 179.98W–.07 526 4.5b 303 6-169
ISCJB V 18 12 18 54.9–.16 23.79S–.03 179.87E–.05 526 4.4b ¶16560095
IDC V 18 12 18 54.9–1.2 23.73S 179.99W 518–12 4.7,4.0
NEIC V 18 12 18 56.0–.50 23.83S 179.90E 532–6 4.6b,4.0
MOS V 18 12 18 55.2–.90 23.76S 179.87E 529 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.7km az=22.6.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=110.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.6km az=149.0.
MOS Error ellipse: s-maj=11.9km s-min=10.0km az=65.8.
IDC V 18 22 13 18.2–8.3 25.63S 177.49W 142–48 4.2,3.9
¶17203914
IDC Error ellipse: s-maj=93.5km s-min=34.9km az=50.0.
ISC V 19 15 37 55.7–.35 24.63S–.05 179.99W–.07 500 4.6b 176 5-168
ISCJB V 19 15 37 54.9–.24 24.66S–.03 179.92E–.05 500 4.6b ¶16531775
IDC V 19 15 37 54.8–.85 24.58S 179.99E 490–8 4.7,4.0
NEIC V 19 15 37 55.3–.59 24.64S 179.99E 498–7 4.8b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.1km az=178.7.
IDC Error ellipse: s-maj=10.7km s-min=10.0km az=160.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.9km az=105.0.
IDC V 20 18 23 33.0–5.0 24.54S 179.71W 538–56 4.1,3.2
¶17204066
IDC Error ellipse: s-maj=136.8km s-min=32.6km az=64.0.
IDC V 21 01 07 43.0–4.8 23.57S 176.94W 0 4.3,4.1
¶17204101
IDC Error ellipse: s-maj=252.3km s-min=57.7km az=158.0.
IDC V 21 05 32 46.2–3.1 24.89S 176.00W 0 4.4,4.1b
¶17204112
IDC Error ellipse: s-maj=136.4km s-min=37.8km az=159.0.
ISC V 21 06 31 50.5–.38 25.80S–.05 179.57E–.07 503 4.5b 181 4-167
ISCJB V 21 06 31 50.2–.18 25.76S–.03 179.47E–.05 503 4.4b ¶16560113
IDC V 21 06 31 50.9–1.4 25.66S 179.46E 504–14 4.5,3.9
NEIC V 21 06 31 52.2–.57 25.81S 179.50E 521–7 4.7b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.1km az=15.4.
IDC Error ellipse: s-maj=13.5km s-min=11.9km az=8.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.6km az=124.0.
ISC V 22 10 20 47.1–.57 24.22S–.07 179.7W–.10 518 3.7b 24 5-169
ISCJB V 22 10 20 46.5–.50 24.18S–.06 179.7W–.10 518 3.8b ¶17204216
IDC V 22 10 20 46.4–1.3 24.19S 179.84W 498–15 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.4km az=11.0.
IDC Error ellipse: s-maj=18.5km s-min=15.7km az=91.0.
IDC V 22 17 33 46.7–4.8 20.92S 178.97E 520–38 3.9,3.4
¶17204246
IDC Error ellipse: s-maj=237.6km s-min=29.6km az=161.0.
ISC V 23 09 04 12.1–.67 26.86S–.07 178.7W–.20 300 3.7b 41 2-166
ISCJB V 23 09 04 10.9–.57 26.80S–.05 178.7W–.20 300 3.5b ¶16560133
IDC V 23 09 04 14.0–1.8 26.56S 178.61W 317–19 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=5.4km az=12.5.
IDC Error ellipse: s-maj=28.3km s-min=18.3km az=160.0.
IDC V 23 12 06 35.4–1.9 22.59S 179.37W 540–22 4.3,3.6
¶17204297
IDC Error ellipse: s-maj=38.2km s-min=14.0km az=153.0.
IDC V 23 22 06 21.3–24 25.02S 179.98W 496–218 4.4,3.6
¶17204330
IDC Error ellipse: s-maj=168.5km s-min=72.8km az=94.0.
IDC V 23 22 38 04.9–2.9 22.26S 176.48W 0 4.4,4.2
¶17204333
IDC Error ellipse: s-maj=220.7km s-min=28.0km az=161.0.
ISC V 24 03 25 23.3–.77 23.7S–.10 179.9W–.10 532 3.9b 20 15-169
ISCJB V 24 03 25 22.7–.82 23.59S–.09 180.0E–.20 532 4.0b ¶17204349
IDC V 24 03 25 22.4–2.0 23.53S 179.94W 516–18 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=11.9km az=0.2.
IDC Error ellipse: s-maj=25.8km s-min=18.8km az=166.0.
ISC V 26 13 33 44.9–.75 22.5S–.20 178.1W–.20 650 3.7b 18 44-152
ISCJB V 26 13 33 43.3–.79 22.7S–.20 178.1W–.20 650 3.5b ¶17204509
IDC V 26 13 33 47.2–4.4 22.64S 178.06W 683–53 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.9km s-min=19.1km az=153.5.
IDC Error ellipse: s-maj=29.8km s-min=23.2km az=5.0.
IDC V 26 17 36 40.7–9.4 22.75S 177.45W 0 3.6,3.4
¶17204520
IDC Error ellipse: s-maj=410.5km s-min=37.1km az=147.0.
IDC V 27 03 24 34.0–11 24.16S 179.99W 490–96 4.1,3.3
¶17204541
IDC Error ellipse: s-maj=129.4km s-min=32.7km az=45.0.
IDC V 27 21 47 05.4–8.8 24.71S 179.87E 578–111 4.1,3.4
¶17204594
IDC Error ellipse: s-maj=84.6km s-min=30.9km az=11.0.
IDC V 28 09 38 22.4–53 25.21S 176.58W 0 4.0,3.9
¶17204615
IDC Error ellipse: s-maj=985.6km s-min=167.7km az=90.0.
ISC V 29 02 05 51.2–.90 25.1S–.10 177.2W–.20 126 3.7b 10 12-168
ISCJB V 29 02 05 49.9–.84 25.1S–.10 177.2W–.20 126 3.8b ¶17204664
IDC V 29 02 05 49.9–4.2 25.06S 177.24W 105–42 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.7km s-min=14.5km az=24.6.
IDC Error ellipse: s-maj=30.9km s-min=28.9km az=177.0.
ISC V 29 09 02 50.6–.49 22.23S–.07 179.35W–.10 592 4.5b 95 5-171

IDC V 29 09 02 42.7–1.3 21.95S 179.17W 508–12 4.4,3.8 ¶16551474
NEIC V 29 09 02 44.0–.67 22.10S 179.12W 525–8 4.7b,3.8
ISCJB V 29 09 02 48.6–.34 22.31S–.05 179.33W–.08 592 4.5b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 30 01 52 29.0–1.8 24.70S 179.81E 489–17 4.6,3.9
¶17204736
IDC Error ellipse: s-maj=31.1km s-min=18.6km az=9.0.
IDC V 30 09 50 16.4–62 19.72S 179.09E 0 3.9,3.7
¶17204749
IDC Error ellipse: s-maj=1115.0km s-min=157.1km az=81.0.
ISC V 30 14 03 02.2–.35 24.29S–.05 179.79W–.07 505 4.3b 177 5-169
ISCJB V 30 14 03 02.0–.19 24.27S–.03 179.98E–.05 505 4.3b ¶16552280
IDC V 30 14 03 02.8–.97 24.29S 179.91W 505–10 4.5,3.8
NEIC V 30 14 03 03.4–.51 24.37S 179.99E 518–6 4.5b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.7km az=13.9.
IDC Error ellipse: s-maj=11.6km s-min=11.3km az=96.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.0km az=124.0.
IDC V 30 21 13 56.2–66 21.67S 178.78E 0 4.1,3.9
¶17204787
IDC Error ellipse: s-maj=1181.0km s-min=156.1km az=83.0.
IDC VI 02 03 42 54.1–22 22.93S 176.86W 489–174 4.0,3.2
¶17204939
IDC Error ellipse: s-maj=235.6km s-min=25.8km az=45.0.
IDC VI 02 10 53 13.9–3.3 23.61S 179.71W 479–47 4.4,3.7
¶17204989
IDC Error ellipse: s-maj=28.6km s-min=21.8km az=146.0.
ISC VI 02 11 31 57.7–.96 23.8S–.10 179.8W–.20 532 4.2b 12 15-148
IDC VI 02 11 31 49.5–6.8 23.43S 179.78W 424–76 4.5,3.9 ¶17204995
ISCJB VI 02 11 31 57.2–.88 23.7S–.10 179.9W–.20 532 4.1b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC VI 03 15 06 51.5–4.0 23.86S 179.01W 610–124 4.5,3.5
¶17205101
IDC Error ellipse: s-maj=70.4km s-min=32.2km az=104.0.
IDC VI 04 13 31 04.7–4.2 20.19S 179.17E 0 3.6,3.3
¶17205212
IDC Error ellipse: s-maj=279.3km s-min=46.4km az=156.0.
ISC VI 05 03 36 08.7–.62 23.49S–.10 179.8W–.10 532 3.9b 29 13-170
IDC VI 05 03 36 06.8–1.8 23.18S 179.81W 507–16 4.5,3.8 ¶16722609
ISCJB VI 05 03 36 08.3–.72 23.43S–.09 180.0W–.10 532 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 05 20 33 59.8–61 22.55S 178.49W 0 3.9,3.7
¶17205356
IDC Error ellipse: s-maj=1102.0km s-min=152.2km az=86.0.
ISC VI 05 23 43 32.4–.42 24.35S–.04 178.73W–.05 383–4 4.8b 473 5-169
ISCJB VI 05 23 43 27.4–.76 24.33S–.03 178.81W–.04 339–8 4.8b ¶16558253
IDC VI 05 23 43 30.4–1.3 24.19S 178.79W 360–11 4.9,4.4
BJI VI 05 23 43 31.8 24.30S 178.80W 382 4.9b,4.7b
GCMT VI 05 23 43 33.1–.30 24.31S 178.82W 374–1 5.2W,4.7b
NEIC VI 05 23 43 33.1–.67 24.31S 178.86W 386–7 4.9b,4.7b
MOS VI 05 23 43 35.4–3.3 24.19S 179.30W 387 5.0b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.1km az=20.3.
IDC Error ellipse: s-maj=11.9km s-min=11.5km az=113.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s83,c116;Duration: 1$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.69±.02 $M_{\theta\theta}$0.29±.04; $M_{\phi\phi}$0.40±.04; $M_{r\theta}$-0.10±.04; $M_{\theta\phi}$-0.12±.04; $M_{\phi r}$-0.74±.03; Best double couple: NP1:ϕ_s359.00000°,δ72.00000°,λ-81.00000°. NP2:ϕ_s153.00000°,δ20.00000°,λ-115.00000°. Principal axes: T 0.7830,Plg26.0000°,Azm82.0000°; N 0.2980,Plg8.0000°,Azm176.0000°; P -1.0810,Plg62.0000°,Azm283.0000° $M_0$0.93200×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.7km az=125.0.
MOS Error ellipse: s-maj=10.4km s-min=8.2km az=109.3.
IDC VI 06 03 04 22.9–3.0 21.06S 179.96E 0 4.0,3.6
¶17205379
IDC Error ellipse: s-maj=312.9km s-min=32.0km az=162.0.
ISC VI 06 03 08 49.5–1.1 24.1S–.20 176.8W–.20 120 4.2b 13 11-169
IDC VI 06 03 08 45.7–4.5 24.13S 177.02W 83–38 4.3,4.2 ¶17205380
ISC Event type ke.
IDC Error ellipse: s-maj=44.2km s-min=20.5km az=143.0.
ISC VI 06 07 25 18.0–1.3 23.9S–.10 180.0W–.20 518 3.7b 9 15-169
ISCJB VI 06 07 25 16.8–1.2 23.7S–.10 180.0E–.20 518 3.6b ¶17205393
IDC VI 06 07 25 17.0–6.1 23.82S 179.96W 506–67 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=15.3km az=171.2.
IDC Error ellipse: s-maj=38.7km s-min=23.0km az=32.0.
IDC VI 06 09 31 27.1–3.4 20.99S 179.67E 0 4.3L,3.9
¶17205401
IDC Error ellipse: s-maj=69.0km s-min=52.5km az=89.0.
IDC VI 07 09 35 49.3–2.2 20.70S 178.28E 0 4.0,3.7
¶17205470
IDC Error ellipse: s-maj=132.7km s-min=27.7km az=156.0.
ISC VI 09 11 27 34.3–.71 26.40S–.10 178.98E–.10 500 3.7b 18 4-167
ISCJB VI 09 11 27 33.0–.68 26.44S–.08 179.0E–.10 500 3.7b ¶17205618
IDC VI 09 11 27 34.6–1.4 26.38S 179.08E 512–16 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=10.7km az=166.9.
IDC Error ellipse: s-maj=18.8km s-min=13.2km az=171.0.
IDC VI 10 02 57 55.3–5.0 23.20S 178.06W 0 4.5,4.3
¶17205677
IDC Error ellipse: s-maj=227.6km s-min=49.2km az=154.0.
IDC VI 10 04 20 11.7–60 23.29S 177.79W 0 4.0,3.8
¶17205682
IDC Error ellipse: s-maj=1088.0km s-min=169.3km az=87.0.
IDC VI 10 12 49 25.7–53 23.38S 178.24W 0 3.8,3.6
¶17205706
IDC Error ellipse: s-maj=972.7km s-min=160.9km az=87.0.
ISC VI 11 03 24 26.2–.72 23.6S–.10 179.3E–.10 555 3.7b 21 15-169
ISCJB VI 11 03 24 26.3–.90 23.54S–.10 179.1E–.20 555 3.8b ¶16720898
IDC VI 11 03 24 27.1–2.6 23.59S 179.21E 558–26 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=12.6km az=173.4.
IDC Error ellipse: s-maj=24.4km s-min=21.8km az=21.0.
IDC VI 11 06 54 03.6–7.5 20.19S 179.67E 0 3.8,3.5
¶17205761
IDC Error ellipse: s-maj=319.0km s-min=63.8km az=146.0.
ISC VI 11 16 08 43.6–1.8 24.0S–.40 179.2E–.20 548 3.9b 11 12-147
IDC VI 11 16 08 46.8–8.1 23.90S 178.89E 568–68 4.2,3.3 ¶17205778
ISC Event type ke.
IDC Error ellipse: s-maj=84.7km s-min=35.2km az=116.0.
ISC VI 12 03 30 52.7–.41 25.67S–.05 176.59W–.09 36 4.7b,4.0s 118 4-167
IDC VI 12 03 30 45.5–.61 25.25S 176.57W 0 4.9L,4.5 ¶16591648
ISCJB VI 12 03 30 51.5–.26 25.63S–.05 176.78W–.07 36 4.7b,4.0s
NEIC VI 12 03 30 53.9–1.4 25.61S 176.77W 46–13 4.7b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=16.0km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.8km az=30.4.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=9.4km az=122.0.
IDC VI 12 07 51 49.2–6.8 25.53S 178.33W 0 3.6,3.4
¶17205817
IDC Error ellipse: s-maj=271.2km s-min=39.7km az=152.0.
ISC VI 13 00 13 26.4–.65 24.96S–.09 179.97E–.09 501 3.8b 19 13-148
ISCJB VI 13 00 13 25.6–.56 24.93S–.07 179.95E–.09 501 3.7b ¶17206017
IDC VI 13 00 13 26.2–2.5 24.99S 179.85E 490–29 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=8.1km az=36.0.
IDC Error ellipse: s-maj=18.2km s-min=16.6km az=157.0.

ISC VI 15 04 49 07.6–.66 23.8S–.20 179.8W–.10 518 4.0b 22 12-169
IDC VI 15 04 49 06.0–1.9 23.87S 179.89W 494–20 4.6,3.8 **¶17206157**
ISCJB VI 15 04 49 06.9–.80 23.9S–.20 179.9W–.10 518 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 15 15 00 11.5–4.6 22.77S 178.62W 0 4.4,4.1
¶17206190
IDC Error ellipse: s-maj=228.1km s-min=72.4km az=158.0.
ISC VI 16 05 37 07.7–1.3 24.0S–.10 179.8W–.20 518 4.1b 10 14-148
IDC VI 16 05 37 05.5–7.2 23.76S 179.84W 492–85 4.5,3.8 **¶17206273**
ISCJB VI 16 05 37 06.7–1.2 23.8S–.10 179.9W–.20 518 4.2b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 13 22 23.5–.71 24.0S–.10 179.8W–.10 518 4.2b 24 13-151
IDC VI 16 13 22 20.7–1.7 23.79S 179.79W 483–18 4.6,3.9 **¶17206321**
ISCJB VI 16 13 22 22.9–.68 23.89S–.08 179.9W–.10 518 4.1b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 22 36 02.9–1.9 24.3S–.70 179.8E–.30 517 3.9b 10 34-148
IDC VI 16 22 36 00.2–3.7 24.20S 179.79E 484–35 4.2,3.6 **¶17206351**
ISCJB VI 16 22 36 01.8–1.8 24.3S–1.0 179.7E–.40 517 3.8b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC VI 18 00 04 50.6–6.6 24.06S 178.87W 0 4.0,3.7
¶17206423
IDC Error ellipse: s-maj=344.0km s-min=68.0km az=156.0.
IDC VI 18 06 09 59.7–3.7 24.08S 179.76E 601–62 4.7,3.8
¶17206442
IDC Error ellipse: s-maj=149.8km s-min=15.2km az=172.0.
ISC VI 21 02 18 28.8–.89 23.2S–.10 179.7W–.10 526 4.2b 22 13-148
IDC VI 21 02 18 34.8–3.2 23.28S 179.94E 584–34 4.4,3.6 **¶17206646**
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=14.8km az=57.0.
ISC VI 21 19 48 55.3–.81 23.3S–.10 176.5W–.10 124 4.6b 26 8-150
IDC VI 21 19 48 39.9–2.0 23.05S 176.38W 0 4.4,4.1 **¶16731162**
ISCJB VI 21 19 48 53.9–.65 23.3S–.10 176.6W–.10 124 4.3b,4.1
NEIC VI 21 19 48 54.8–1.8 23.23S 176.51W 119–14 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=119.4km s-min=23.9km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=13.8km az=44.5.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=10.3km az=125.0.
ISC VI 23 11 28 42.0–1.1 22.2S–.20 179.5W–.20 592 4.0b 12 13-147
ISCJB VI 23 11 28 41.1–1.2 22.2S–.20 179.7W–.20 592 3.8b **¶17206814**
IDC VI 23 11 28 44.5–4.8 22.17S 179.75W 616–53 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.2km s-min=21.3km az=28.8.
IDC Error ellipse: s-maj=34.8km s-min=22.3km az=80.0.
ISC VI 23 12 06 04.0–2.7 23.7S–.20 180.0W–.30 417 3.8b 7 6-42
IDC VI 23 12 06 01.8–5.0 23.52S 179.15W 471–40 4.3,3.5 **¶17206815**
ISC Event type ke.
IDC Error ellipse: s-maj=104.2km s-min=28.6km az=59.0.
ISC VI 25 21 16 55.6–.31 24.49S–.04 179.52E–.04 533–3 5.3b 1245 5-174
IDC VI 25 21 16 54.9–.43 24.54S 179.45E 523–4 5.5,4.8 **¶602918769**
ISCJB VI 25 21 16 54.1–.43 24.52S–.02 179.35E–.02 518–5 5.2b,4.8
MOS VI 25 21 16 55.0–.99 24.45S 179.39E 525 5.2b,4.8
GCMT VI 25 21 16 55.5–.20 24.51S 179.58E 539–1 5.6W,4.8
NEIC VI 25 21 16 55.5–.43 24.51S 179.37E 528–5 5.6W,5.6W
BJI VI 25 21 16 56.0 24.21S 179.74E 547 5.3b,5.3b
NEIC VI 25 21 16 57.0–.00 24.41S 179.51E 546 5.3b,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=7.2km s-min=6.4km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=149.4.
MOS Error ellipse: s-maj=8.1km s-min=7.0km az=78.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c158; s27,c28; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.75±.04 $M_{\theta\theta}$-1.17±.07; $M_{\phi\phi}$0.41±.07; $M_{r\theta}$-0.04±.07; $M_{\theta\phi}$-0.01±.07; $M_{\phi r}$-2.93±.06; Best double couple: NP1:ϕ_s181.00000° ,δ88.00000°,λ89.00000°. NP2:ϕ_s29.00000°,δ2.00000°,λ118.00000°. Principal axes: T 3.5190,Plg47.0000°,Azm90.0000°; N -1.1690,Plg1.0000°,Azm181.0000° ; P -2.3510,Plg43.0000°,Azm272.0000° $M_0$2.93500$\times 10^{17}$
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=147.0. Felt at Suva. Also felt at Nuku‘alofa, Tonga. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.29 $M_{\theta\theta}$1.03 $M_{\phi\phi}$-0.74 $M_{r\theta}$1.58 $M_{\theta\phi}$0.02 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s324.00000° ,δ89.00000°,λ-74.00000°. NP2:ϕ_s57.00000°,δ16.00000°,λ-176.00000°. Principal axes: T 2.8300,Plg42.0000°,Azm39.0000°; N 0.4800,Plg16.0000°,Azm144.0000° ; P -3.3100,Plg44.0000°,Azm249.0000° $M_0$3.10000$\times 10^{17}$
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$-0.65 $M_{\phi\phi}$0.16 $M_{r\theta}$-0.05 $M_{\theta\phi}$0.70 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s174.00000° ,δ87.00000°,λ107.00000°. NP2:ϕ_s275.00000°,δ18.00000°,λ11.00000°. Principal axes: T 2.9100,Plg45.0000°,Azm101.0000°; N -0.5900,Plg17.0000°,Azm353.0000° ; P -2.3200,Plg39.0000°,Azm248.0000° $M_0$2.70000$\times 10^{17}$
ISC VI 26 01 37 35.0–.66 24.8S–.10 180.0E–.10 501 3.9b 21 13-168
ISCJB VI 26 01 37 34.0–.71 24.9S–.10 180.0E–.10 501 4.0b **¶17206949**
IDC VI 26 01 37 33.5–1.5 24.87S 179.93E 481–15 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=12.8km az=144.7.
IDC Error ellipse: s-maj=18.1km s-min=13.0km az=165.0.
ISC VI 26 12 55 05.1–1.2 24.1S–.10 180.0W–.20 518 4.2b 10 14-153
IDC VI 26 12 55 03.6–2.9 23.80S 179.96W 498–30 4.5,3.7 **¶17206989**
ISCJB VI 26 12 55 04.6–1.3 24.0S–.10 179.9E–.20 518 4.1b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 23 22 34.3–1.6 23.7S–.30 179.2E–.20 548 3.8b 16 31-152
IDC VI 26 23 22 40.5–9.3 23.64S 178.77E 604–90 4.4,3.5 **¶16721009**
ISC Event type ke.
IDC Error ellipse: s-maj=79.3km s-min=32.5km az=112.0.
ISC VI 27 04 16 51.7–.47 25.35S–.05 177.27W–.06 169–3 4.5b 138 4-168
BJI VI 27 04 16 49.1 25.41S 176.89W 172 5.2b,5.0b **¶16721013**
ISCJB VI 27 04 16 50.6–.99 25.37S–.06 177.39W–.06 169–9 4.5b,5.0b
NEIC VI 27 04 16 50.9–.33 25.33S 177.38W 164 4.8b,5.0b
IDC VI 27 04 16 52.0–.62 25.29S 177.52W 165–5 4.6,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=8.9km az=136.1.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.2km az=105.0.
IDC Error ellipse: s-maj=14.3km s-min=9.7km az=99.0.
IDC VI 27 10 02 39.1–1.4 25.73S 179.75W 467–14 4.8,4.0
¶16721015
IDC Error ellipse: s-maj=26.5km s-min=17.0km az=41.0.
IDC VI 27 10 34 50.4–3.2 22.08S 178.43W 340–36 3.9,3.4
¶17207065
IDC Error ellipse: s-maj=45.6km s-min=17.0km az=144.0.
IDC VI 28 12 56 56.4–26 23.32S 178.75W 451–231 4.0,3.2
¶17207141
IDC Error ellipse: s-maj=187.4km s-min=40.7km az=104.0.
ISC VI 29 04 15 03.8–.55 24.56S–.08 179.8E–.10 517 4.0b 30 5-169
ISCJB VI 29 04 15 03.5–.49 24.52S–.07 179.7E–.10 517 4.0b **¶16721029**
IDC VI 29 04 15 07.9–1.8 24.52S 179.50E 553–20 4.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.7km az=27.4.
IDC Error ellipse: s-maj=16.5km s-min=14.9km az=78.0.
ISC VI 29 13 04 02.6–.40 22.73S–.07 179.48W–.08 579 4.2b 114 5-170
IDC VI 29 13 03 59.4–1.2 22.54S 179.50W 534–13 4.3,3.5 **¶16702440**
ISCJB VI 29 13 04 01.9–.32 22.76S–.06 179.57W–.08 579 4.1b,3.5
NEIC VI 29 13 04 02.4–1.3 22.62S 179.62W 571–12 4.3b,3.5
ISC Event type fe.
IDC Error ellipse: s-maj=14.5km s-min=11.4km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=8.0km az=25.6.
NEIC Event type fe. Error ellipse: s-maj=23.8km s-min=14.8km az=136.0. Felt at Suva.
ISC VI 29 18 12 56.7–1.0 24.3S–.10 180.0E–.20 526 3.9b 13 13-169
ISCJB VI 29 18 12 55.9–1.1 24.2S–.10 179.9E–.20 526 3.9b **¶17207209**
IDC VI 29 18 12 57.6–3.6 24.24S 179.86E 535–38 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=13.9km az=165.4.
IDC Error ellipse: s-maj=27.6km s-min=19.2km az=47.0.
IDC VI 29 22 02 26.3–11 22.14S 179.77W 652–108 4.3,3.3
¶17207220
IDC Error ellipse: s-maj=163.7km s-min=36.4km az=43.0.
IDC VI 30 01 42 48.5–23 23.78S 178.14E 650–214 4.3,3.3
¶17207228
IDC Error ellipse: s-maj=225.7km s-min=120.8km az=119.0.
IDC VI 30 09 13 49.6–1.1 22.99S 176.16W 0 4.1,3.9
¶17207244
IDC Error ellipse: s-maj=35.2km s-min=27.4km az=151.0.
ISC VI 30 12 28 33.7–.95 23.4S–.20 176.2W–.20 33 4.0b 12 6-150
IDC VI 30 12 28 28.5–1.0 23.31S 176.15W 0 4.3,4.1 **¶17207253**
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=24.6km az=137.0.

(173) Tonga Islands.

ISC I 02 02 25 22.6–1.4 18.6S–.20 173.6W–.20 31 3.7b 13 5-149
IDC I 02 02 25 17.5–2.0 18.96S 173.50W 0 4.1,3.8 **¶15981213**
ISCJB I 02 02 25 21.9–1.3 18.4S–.20 173.7W–.20 31 4.1b,3.8
NEIC I 02 02 25 24.4–1.2 18.44S 173.67W 35 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=86.5km s-min=24.3km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=37.7km s-min=10.4km az=38.9.
NEIC Event type se. Error ellipse: s-maj=38.0km s-min=11.3km az=130.0.
IDC I 02 14 52 21.7–5.9 19.64S 175.60W 0 4.1,3.8
¶17189224
IDC Error ellipse: s-maj=280.0km s-min=34.4km az=145.0.
IDC I 03 02 08 02.7–2.1 16.41S 174.98W 237–22 3.6,3.3
¶17189279
IDC Error ellipse: s-maj=40.1km s-min=16.7km az=137.0.
ISC I 03 05 21 14.1–.53 15.2S–.10 173.5W–.20 30 4.5b,3.9s 51 2-175
IDC I 03 05 21 09.2–.56 15.22S 173.42W 0 4.5,4.3 **¶15930101**
NEIC I 03 05 21 10.8–.41 15.20S 173.31W 10 4.8b,4.3
ISCJB I 03 05 21 12.3–.39 15.2S–.10 173.6W–.10 30 4.5b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 04 02 16 25.5–3.8 15.34S 173.06W 0 3.9,3.7
¶17189378
IDC Error ellipse: s-maj=187.6km s-min=18.6km az=139.0.
ISC I 04 05 54 02.4–.31 16.07S–.06 173.04W–.06 26 5.2b,4.8s 691 2-174
IDC I 04 05 53 57.9–.42 16.17S 172.99W 0 4.9,4.8 **¶15902953**
ISCJB I 04 05 54 00.8–.16 16.07S–.05 173.05W–.04 26 5.1b,4.8s
NEIC I 04 05 54 02.6–.15 16.04S 173.10W 27 5.3b,4.8s
GCMT I 04 05 54 02.6–.20 16.11S 172.70W 28–0 5.3W,4.8s
MOS I 04 05 54 02.6–1.4 15.99S 173.15W 33 5.2b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=10.7km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.4km az=148.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=3.7km az=140.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s77,c107; s100,c157; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.64±.02 $M_{\theta\theta}$0.33±.02; $M_{\phi\phi}$-0.96±.02; $M_{r\theta}$0.63±.04; $M_{\theta\phi}$-0.10±.01; $M_{\phi r}$0.06±.03; Best double couple: NP1:ϕ_s37.00000°,δ60.00000° ,λ135.00000°. NP2:ϕ_s153.00000°,δ52.00000°,λ39.00000°. Principal axes: T 1.1360,Plg52.0000°,Azm1.0000°; N -0.1540,Plg38.0000°,Azm190.0000° ; P -0.9820,Plg4.0000°,Azm96.0000° $M_0$1.05900$\times 10^{17}$
MOS Error ellipse: s-maj=14.0km s-min=10.1km az=61.1.
IDC I 04 15 57 20.5–1.2 16.66S 173.60W 0 3.8,3.7
¶17189439
IDC Error ellipse: s-maj=53.9km s-min=21.9km az=135.0.
IDC I 05 16 39 59.7–7.4 15.90S 173.43W 170–231 3.6,3.3
¶17189522
IDC Error ellipse: s-maj=338.0km s-min=106.0km az=97.0.
ISC I 06 01 50 47.8–1.6 17.9S–.40 174.6W–.40 35 3.9b 13 5-151
IDC I 06 01 50 57.2–3.6 17.09S 175.25W 94–29 3.9,3.8 **¶17189561**
ISC Event type ke.
IDC Error ellipse: s-maj=106.3km s-min=16.0km az=148.0.
IDC I 06 12 09 52.4–4.6 17.05S 173.35W 0 4.1,3.9
¶15930109
IDC Error ellipse: s-maj=186.9km s-min=25.0km az=134.0.
IDC I 06 15 37 31.9–2.6 15.11S 173.42W 0 4.1,3.8
¶15930110
IDC Error ellipse: s-maj=144.8km s-min=23.2km az=142.0.
ISC I 06 20 57 07.1–.36 15.74S–.08 174.17W–.07 94 4.8b 174 3-175
ISCJB I 06 20 57 05.4–.32 15.75S–.06 174.08W–.08 94 4.8b **¶15908408**
BJI I 06 20 57 05.5 16.29S 173.64W 130 5.3b,5.0b
MOS I 06 20 57 10.9–1.2 15.68S 174.28W 132 4.7b,5.0b
NEIC I 06 20 57 12.6–1.0 15.74S 174.15W 145–9 4.8b,5.0b
IDC I 06 20 57 12.4–2.0 15.73S 174.14W 139–18 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=7.2km az=36.2.
MOS Error ellipse: s-maj=13.1km s-min=11.0km az=146.7.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.0km az=135.0.
IDC Error ellipse: s-maj=18.4km s-min=10.6km az=141.0.
IDC I 06 22 24 00.9–50 16.23S 175.71W 0 4.1,3.9
¶17189612
IDC Error ellipse: s-maj=948.1km s-min=175.1km az=78.0.
ISC I 07 23 13 07.4–.77 20.07S–.06 173.61W–.05 21–9 5.3b,5.3s 896 6-177
IDC I 07 23 13 03.4–.40 20.01S 173.62W 0 5.1,5.1 **¶15909045**
ISCJB I 07 23 13 04.1–.13 20.07S–.04 173.63W–.03 10 5.3b,5.3s
BJI I 07 23 13 05.5 19.90S 173.70W 10 5.9b,5.5s
GCMT I 07 23 13 06.2–.10 20.10S 173.06W 12 5.5W,5.5s
NEIC I 07 23 13 06.2–.16 19.90S 173.75W 10 5.4b,5.5s
MOS I 07 23 13 10.3–2.0 19.58S 173.43W 33 5.4b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=12.2km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.1km az=159.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c145; s121,c238; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50±.02 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$-1.45±.02; $M_{r\theta}$0.63±.05; $M_{\theta\phi}$-0.53±.01; $M_{\phi r}$0.69±.05; Best double couple: NP1:ϕ_s31.00000°,δ60.00000° ,λ103.00000°. NP2:ϕ_s186.00000°,δ32.00000°,λ68.00000°. Principal axes: T 1.7960,Plg71.0000°,Azm331.0000°; N 0.0500,Plg11.0000°,Azm204.0000° ; P -1.8450,Plg15.0000°,Azm111.0000° $M_0$1.82100$\times 10^{17}$
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.2km az=144.0.
MOS Error ellipse: s-maj=13.7km s-min=9.2km az=84.9.
IDC I 08 02 30 55.8–2.9 16.12S 174.74W 155–32 3.6,3.4
¶17189666
IDC Error ellipse: s-maj=138.1km s-min=21.0km az=145.0.
IDC I 08 11 47 07.4–2.0 16.05S 174.96W 302–23 3.7,3.3
¶17189694
IDC Error ellipse: s-maj=157.5km s-min=20.3km az=146.0.
IDC I 09 07 29 43.7–3.3 15.14S 173.44W 0 3.9L,3.8
¶17189742
IDC Error ellipse: s-maj=178.8km s-min=23.9km az=147.0.
ISC I 10 02 11 08.3–.23 19.63S–.05 175.90W–.04 219 5.2b 1285 6-177
BJI I 10 02 10 59.5 19.70S 175.32W 176 5.4b,5.1b **¶16019192**
MOS I 10 02 11 04.5–.96 19.40S 176.06W 188 5.1b,5.1b
ISCJB I 10 02 11 07.3–.08 19.55S–.02 176.04W–.02 219 5.1b,5.1b
IDC I 10 02 11 08.1–1.3 19.49S 175.99W 214–11 5.3,4.9
GCMT I 10 02 11 09.4–.10 19.51S 175.58W 250–0 5.6W,4.9
NEIC I 10 02 11 09.4–1.0 19.55S 176.03W 229–9 5.2b,4.9
ISC Event type se.
MOS Error ellipse: s-maj=9.3km s-min=8.3km az=50.3.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.0km az=138.7.
IDC Error ellipse: s-maj=9.5km s-min=8.4km az=142.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s109,c180; s124,c239; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.72±.03 $M_{\theta\theta}$1.27±.04; $M_{\phi\phi}$-0.54±.04;

$M_{r\theta}$-0.40±.03; $M_{\theta\theta}$1.16±.03; $M_{\phi r}$-2.22±.03; Best double couple: NP1:ϕ_s22.00000°,δ81.00000°,λ-124.00000°. NP2:ϕ_s279.00000°,δ35.00000°,λ-16.00000°. Principal axes:
T 2.5730,Plg28.0000°,Azm139.0000°; N 0.3540,Plg33.0000°,Azm28.0000°
; P -2.9230,Plg44.0000°,Azm260.0000° $M_0$2.74800×10^{17}

NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=151.0.

ISC	**I**	**10 10 21 47.3–.48**	**16.80S–.09**	**174.9W–.10**	**256**	**4.8b**	**147**	**4-147**	
IDC	I	10 10 21 38.9–1.3	16.96S	174.62W	183–12	4.5,4.2			**¶15928068**
NEIC	I	10 10 21 41.2–.97	16.86S	174.73W	200–9	4.8b,4.2			
ISCJB	I	10 10 21 45.0–.24	17.03S–.08	174.74W–.07	250	4.6b,4.2			
BJI	I	10 10 21 44.4	17.38S	175.11W	230	5.3b,5.0b			

ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=8.9km az=132.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=5.5km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=6.2km az=141.5.

IDC	**I**	**10 15 49 02.0–7.8**	**17.32S**	**174.74W**	**0**	**4.3,4.0**			**¶17189866**

IDC Error ellipse: s-maj=339.8km s-min=37.0km az=141.0.

ISC	**I**	**10 20 28 04.0–.98**	**18.1S–.20**	**174.4W–.20**	**10**	**4.3b**	**11**	**5-96**	
ISCJB	I	10 20 28 02.6–.82	18.3S–.10	174.4W–.20	10	4.1b			**¶16151014**
IDC	I	10 20 28 02.8–1.1	18.22S	174.46W	0	4.2,4.1			
NEIC	I	10 20 28 04.2–.73	18.28S	174.39W	10	4.4b,4.1			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=30.3km s-min=12.3km az=39.6.
IDC Error ellipse: s-maj=42.1km s-min=20.1km az=126.0.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=11.5km az=127.0.

IDC	**I**	**11 18 52 31.8–3.2**	**19.92S**	**173.97W**	**0**	**4.0,3.9**			**¶17189935**

IDC Error ellipse: s-maj=113.9km s-min=32.3km az=136.0.

IDC	**I**	**13 02 02 44.6–4.5**	**19.08S**	**174.82W**	**0**	**4.2,4.0**			**¶17190028**

IDC Error ellipse: s-maj=234.3km s-min=61.4km az=149.0.

ISC	**I**	**13 22 13 19.4–1.3**	**15.1S–.30**	**173.4W–.20**	**10**	**3.9b**	**13**	**2-153**	
IDC	I	13 22 13 16.9–3.5	15.66S	173.16W	0	4.1L,4.0			**¶16026449**
ISCJB	I	13 22 13 17.9–1.2	15.1S–.30	173.4W–.20	10	4.1b,4.0			
NEIC	I	13 22 13 19.7–.72	15.14S	173.46W	10	4.3b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=193.3km s-min=23.5km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=47.6km s-min=10.8km az=148.9.
NEIC Event type se. Error ellipse: s-maj=29.8km s-min=9.2km az=148.0.

ISC	**I**	**14 07 24 43.8–.41**	**17.34S–.08**	**174.07W–.09**	**108**	**4.6b**	**71**	**4-174**	
MOS	I	14 07 24 35.0–1.2	17.22S	174.39W	33	4.0b			**¶15940517**
NEIC	I	14 07 24 42.4–1.5	17.04S	174.15W	101–14	4.8b			
GCMT	I	14 07 24 42.4–.20	17.07S	173.58W	142–2	5.1W			
ISCJB	I	14 07 24 44.7–.43	17.13S–.06	174.13W–.09	133	4.4b			
IDC	I	14 07 24 46.3–.69	17.07S	173.84W	134–4	4.4,4.2			

ISC Event type se.
MOS Error ellipse: s-maj=16.2km s-min=14.9km az=142.8.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.8km az=122.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s40,c52; s83,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.74±.20 $M_{\theta\theta}$0.13±.23; $M_{\phi\phi}$-0.87±.21; $M_{r\theta}$0.38±.15; $M_{\theta\phi}$0.61±.26; $M_{\phi r}$5.04±.13; Best double couple: NP1:ϕ_s4.00000°,δ86.00000°,λ98.00000°. NP2:ϕ_s123.00000°,δ9.00000°,λ30.00000°. Principal axes:
T 5.1330,Plg49.0000°,Azm282.0000°; N 0.0470,Plg8.0000°,Azm183.0000°
; P -5.1790,Plg40.0000°,Azm87.0000° $M_0$5.15600×10^{16}

ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.3km az=14.1.
IDC Error ellipse: s-maj=22.5km s-min=18.8km az=15.0.

ISC	**I**	**14 11 54 52.5–.86**	**16.0S–.20**	**173.4W–.20**	**10**	**3.9b**	**14**	**3-147**	
ISCJB	I	14 11 54 51.0–.69	15.9S–.20	173.5W–.20	10	3.9b			**¶15940520**
IDC	I	14 11 54 51.2–.82	16.10S	173.40W	0	4.2,4.0			
NEIC	I	14 11 54 52.6–.65	16.00S	173.39W	10	4.1b,4.0			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=35.5km s-min=10.1km az=136.9.
IDC Error ellipse: s-maj=47.4km s-min=18.0km az=140.0.
NEIC Event type se. Error ellipse: s-maj=35.2km s-min=11.7km az=137.0.

IDC	**I**	**14 11 57 55.7–1.6**	**15.24S**	**173.36W**	**0**	**3.9,3.8**			**¶15940521**

IDC Error ellipse: s-maj=98.0km s-min=22.6km az=146.0.

IDC	**I**	**14 17 11 30.2–7.0**	**15.24S**	**173.18W**	**0**	**4.1,3.8**			**¶17190197**

IDC Error ellipse: s-maj=395.2km s-min=25.3km az=145.0.

ISC	**I**	**15 18 54 04.7–.26**	**17.17S–.06**	**174.30W–.06**	**172**	**4.8b**	**756**	**4-174**	
BJI	I	15 18 53 50.6	17.23S	173.57W	83	5.6s,5.5b			**¶15931166**
MOS	I	15 18 53 56.7–1.6	17.03S	174.32W	99	4.9b,5.5b			
NEIC	I	15 18 53 58.9–1.1	17.18S	174.40W	118–10	5.0b,5.5b			
GCMT	I	15 18 53 58.9–.30	17.31S	173.98W	146–3	5.0W,5.5b			
IDC	I	15 18 54 01.5–.58	17.20S	174.29W	142–4	4.9,4.6			
ISCJB	I	15 18 54 03.4–.11	17.26S–.03	174.43W–.03	172	4.8b,4.6			

ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s18,c20; s84,c108;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.63±.12 $M_{\theta\theta}$-0.50±.18; $M_{\phi\phi}$3.13±.16; $M_{r\theta}$1.09±.12; $M_{\theta\phi}$-0.30±.18; $M_{\phi r}$1.03±.12; Best double couple: NP1:ϕ_s197.00000°,δ58.00000°,λ-64.00000°. NP2:ϕ_s334.00000°,δ40.00000°,λ-125.00000°. Principal axes: T 3.3120,Plg10.0000°,Azm268.0000°; N -0.0430,Plg22.0000°,Azm2.0000°
; P -3.2660,Plg66.0000°,Azm156.0000° $M_0$3.28900×10^{16}

ISCJB Event type se.

ISC	**I**	**16 10 15 40.0–1.5**	**15.8S–.30**	**173.1W–.30**	**32**	**3.6b**	**9**	**2-147**	
IDC	I	16 10 15 34.0–1.6	16.30S	172.95W	0	4.0,3.8			**¶17190310**
ISCJB	I	16 10 15 38.4–1.3	15.7S–.30	173.2W–.30	32	3.6b,3.8			

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**16 18 42 16.9–.53**	**20.67S–.06**	**174.22W–.06**	**25–3**	**5.3b,4.9s**	**563**	**7-172**	
IDC	I	16 18 42 13.0–.47	20.50S	174.25W	0	4.9,4.8			**¶15931194**
BJI	I	16 18 42 14.5	20.19S	173.90W	10	5.7b,5.5s			
GCMT	I	16 18 42 15.8–.10	20.81S	173.56W	26–0	5.3W,5.5s			
NEIC	I	16 18 42 15.8–.95	20.59S	174.29W	21–6	5.4b,5.3W			
ISCJB	I	16 18 42 16.3–.15	20.66S–.04	174.21W–.03	33	5.3b,4.9s			
MOS	I	16 18 42 22.8–2.5	19.87S	175.32W	33	5.2b,4.7s			

ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=13.8km az=130.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s82,c122; s115,c186; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.30±.02 $M_{\theta\theta}$0.41±.02; $M_{\phi\phi}$-0.70±.01; $M_{r\theta}$0.49±.04; $M_{\theta\phi}$0.56±.01; $M_{\phi r}$0.55±.03; Best double couple: NP1:ϕ_s18.00000°,δ76.00000°,λ139.00000°. NP2:ϕ_s120.00000°,δ50.00000°,λ18.00000°. Principal axes:
T 1.1760,Plg39.0000°,Azm331.0000°; N -0.1420,Plg47.0000°,Azm183.0000°
; P -1.0330,Plg16.0000°,Azm74.0000° $M_0$1.10400×10^{17}

NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.4km az=137.0. Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ55.00000°,λ37.00000°. NP2:ϕ_s257.00000°,δ61.00000°,λ139.00000°. Principal axes: T 1.1400,Plg49.0000°,Azm221.0000°
; N -0.0100,Plg41.0000°,Azm48.0000°; P -1.1300,Plg3.0000°,Azm315.0000°

ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.3km az=148.2.
MOS Error ellipse: s-maj=13.5km s-min=11.8km az=35.8.

IDC	**I**	**16 22 14 13.7–51**	**18.94S**	**173.36W**	**0**	**3.8,3.7**			**¶17190353**

IDC Error ellipse: s-maj=977.8km s-min=172.5km az=83.0.

ISC	**I**	**17 18 03 28.5–1.1**	**17.6S–.20**	**173.6W–.30**	**39**	**4.0b**	**12**	**4-148**	
IDC	I	17 18 03 22.6–2.3	18.00S	173.42W	0	4.2,3.9			**¶16151683**
ISCJB	I	17 18 03 26.9–.87	17.6S–.20	173.7W–.20	39	4.1b,3.9			
NEIC	I	17 18 03 28.4–.85	17.65S	173.62W	35	4.5b,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=138.7km s-min=21.4km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=36.6km s-min=12.9km az=41.5.
NEIC Event type se. Error ellipse: s-maj=38.5km s-min=13.6km az=130.0.

ISC	**I**	**18 02 02 00.7–.40**	**16.28S–.05**	**175.89W–.05**	**351–3**	**4.7b**	**799**	**5-176**	
BJI	I	18 02 01 58.4	16.22S	175.54W	346	4.9b,4.5b			**¶15933580**
ISCJB	I	18 02 01 58.7–.63	16.32S–.04	175.88W–.03	341–6	4.7b,4.5b			
MOS	I	18 02 01 59.6–.95	16.14S	175.98W	341	4.6b,4.5b			
NEIC	I	18 02 02 01.0–.64	16.21S	175.96W	350–6	4.8b,4.5b			
GCMT	I	18 02 02 01.0–.50	16.10S	175.84W	374–2	5.2W,4.5b			
IDC	I	18 02 02 02.0–.50	16.20S	175.95W	357–4	4.7,4.2			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=149.6.
MOS Error ellipse: s-maj=12.9km s-min=11.3km az=137.3.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=3.7km az=144.0.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s63,c82;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.62±.03 $M_{\theta\theta}$0.67±.07; $M_{\phi\phi}$-0.05±.06; $M_{r\theta}$0.52±.06; $M_{\theta\phi}$0.10±.05; $M_{\phi r}$0.07±.06; Best double couple: NP1:ϕ_s262.00000°,δ64.00000°,λ-90.00000°. NP2:ϕ_s82.00000°,δ26.00000°,λ-90.00000°. Principal axes: T 0.8690,Plg19.0000°,Azm352.0000°; N -0.0660,Plg0.0000°,Azm262.0000°
; P -0.8030,Plg71.0000°,Azm172.0000° $M_0$0.83600×10^{17}

IDC Error ellipse: s-maj=12.4km s-min=7.6km az=150.0.

ISC	**I**	**18 02 22 16.6–.55**	**19.5S–.10**	**175.8W–.10**	**219**	**4.2b**	**54**	**7-173**	
IDC	I	18 02 22 12.1–2.5	19.33S	175.74W	178–22	4.4,4.1			**¶16016418**
NEIC	I	18 02 22 12.0–1.3	19.30S	175.73W	179–12	4.5b,4.1			
ISCJB	I	18 02 22 15.4–.51	19.38S–.07	175.8W–.10	219	4.1b,4.1			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**I**	**18 13 31 57.4–1.6**	**16.2S–.40**	**173.5W–.30**	**10**	**4.1b**	**14**	**3-147**	
IDC	I	18 13 31 55.6–1.5	16.28S	173.40W	0	4.3,4.0			**¶16009128**
NEIC	I	18 13 31 57.4–.78	16.23S	173.50W	10	4.3b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=73.1km s-min=19.8km az=144.0.
NEIC Event type se. Error ellipse: s-maj=42.4km s-min=10.1km az=146.0.

IDC	**I**	**19 04 42 23.2–54**	**17.59S**	**175.95W**	**0**	**4.1,3.9**			**¶17190525**

IDC Error ellipse: s-maj=1016.0km s-min=164.2km az=80.0.

ISC	**I**	**19 08 15 27.0–.85**	**17.3S–.20**	**173.8W–.20**	**35**	**3.9b**	**14**	**4-148**	
IDC	I	19 08 15 21.1–.92	17.55S	173.62W	0	4.3,4.1			**¶17190539**
ISCJB	I	19 08 15 25.4–.71	17.3S–.20	173.8W–.20	35	4.0b,4.1			

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**19 19 13 43.0–.35**	**20.26S–.06**	**175.68W–.07**	**200**	**4.9b**	**250**	**6-172**	
GCMT	I	19 19 13 36.3–.30	20.04S	175.41W	201–3	5.1W			**¶16151871**
NEIC	I	19 19 13 36.4–1.0	19.95S	175.80W	132–9	5.3b			
BJI	I	19 19 13 39.8	19.45S	176.90W	124	5.3b,4.8b			
IDC	I	19 19 13 41.0–1.8	20.05S	175.80W	177–15	4.7,4.4			
ISCJB	I	19 19 13 42.5–.24	20.20S–.03	175.81W–.05	200	4.7b,4.4			

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c29; s72,c98;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.64±.24 $M_{\theta\theta}$-0.26±.29; $M_{\phi\phi}$0.89±.25; $M_{r\theta}$-0.19±.21; $M_{\theta\phi}$2.90±.22; $M_{\phi r}$-4.43±.18; Best double couple: NP1:ϕ_s0.00000°,δ86.00000°,λ-123.00000°. NP2:ϕ_s264.00000°,δ33.00000°,λ-8.00000°. Principal axes: T 5.6070,Plg33.0000°,Azm117.0000°; N -0.5400,Plg32.0000°,Azm3.0000°
; P -5.0670,Plg40.0000°,Azm241.0000° $M_0$5.33700×10^{16}

NEIC Event type se.
ISCJB Event type se.

ISC	**I**	**20 09 57 43.2–.81**	**19.8S–.10**	**173.9W–.20**	**31**	**4.5b**	**34**	**6-150**	
IDC	I	20 09 57 38.7–.97	19.79S	173.98W	0	4.5L,4.4			**¶16151925**
ISCJB	I	20 09 57 40.9–.77	19.80S–.09	173.9W–.20	31	4.3b,3.9s			
NEIC	I	20 09 57 40.0–.53	19.77S	173.97W	10	4.6b,3.9s			

ISC Event type se.
IDC Error ellipse: s-maj=30.2km s-min=17.1km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=22.6km s-min=7.9km az=26.5.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=8.5km az=118.0.

ISC	**I**	**20 19 39 58.9–1.5**	**15.7S–.50**	**173.6W–.40**	**42**	**4.1s,3.6b**	**10**	**2-146**	
IDC	I	20 19 39 53.1–1.6	15.48S	173.64W	0	4.1,4.0			**¶15968934**
GCMT	I	20 19 40 00.0–.40	15.35S	173.02W	22–1	4.9W,4.0			

ISC Event type ke.
IDC Error ellipse: s-maj=95.2km s-min=20.5km az=147.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c20; s71,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.17±.28 $M_{\theta\theta}$2.29±.19; $M_{\phi\phi}$-0.11±.17; $M_{r\theta}$-0.51±.24; $M_{\theta\phi}$1.86±.10; $M_{\phi r}$0.63±.26; Best double couple: NP1:ϕ_s87.00000°,δ53.00000°,λ-53.00000°. NP2:ϕ_s216.00000°,δ50.00000°,λ-128.00000°. Principal axes:
T 3.3060,Plg2.0000°,Azm152.0000°; N -0.6980,Plg28.0000°,Azm243.0000°
; P -2.6040,Plg62.0000°,Azm59.0000° $M_0$2.95500×10^{16}

ISC	**I**	**20 19 49 20.1–1.4**	**19.6S–.30**	**173.9W–.20**	**31**	**4.3b**	**19**	**6-150**	
IDC	I	20 19 49 14.9–1.4	19.85S	173.75W	0	4.4,4.2L			**¶16151969**
NEIC	I	20 19 49 16.7–10	19.70S	173.81W	11–60	4.4b,4.2L			
ISCJB	I	20 19 49 18.8–1.2	19.6S–.20	173.9W–.20	31	4.1b,3.8s			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**I**	**23 10 28 36.3–2.4**	**15.2S–.80**	**173.3W–.50**	**29**	**3.7b**	**9**	**2-146**	
IDC	I	23 10 28 31.6–2.5	15.42S	173.22W	0	4.2,3.9L			**¶17190791**

ISC Event type ke.
IDC Error ellipse: s-maj=142.3km s-min=24.4km az=146.0.

ISC	**I**	**24 01 02 03.8–.45**	**19.27S–.05**	**173.44W–.05**	**28–2**	**5.8s,5.5b**	**795**	**6-172**	
IDC	I	24 01 01 59.0–.35	19.35S	173.33W	0	5.6,5.5s			**¶15959424**
GCMT	I	24 01 02 02.0–.10	19.42S	172.81W	12	5.7W,5.5s			
NEIC	I	24 01 02 02.0–3.9	19.20S	173.51W	16–24	5.8s,5.7W			
BJI	I	24 01 02 02.0	19.39S	172.79W	35	6.0b,5.8s			
ISCJB	I	24 01 02 03.1–.12	19.31S–.03	173.48W–.03	33	5.8s,5.3b			
MOS	I	24 01 02 03.7–1.7	19.26S	173.49W	33	5.7s,5.6b			

ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=9.2km az=133.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c240; s134,c400;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}4.03±.03 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$-3.39±.03; $M_{r\theta}$1.05±.09; $M_{\theta\phi}$-2.21±.03; $M_{\phi r}$2.46±.09; Best double couple: NP1:ϕ_s26.00000°,δ61.00000°,λ86.00000°. NP2:ϕ_s213.00000°,δ29.00000°,λ97.00000°. Principal axes: T 4.8000,Plg74.0000°,Azm286.0000°
; N 0.5740,Plg3.0000°,Azm27.0000°; P -5.3710,Plg16.0000°,Azm118.0000°
$M_0$5.08500×10^{17}

NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=148.0. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}3.26 $M_{\theta\theta}$0.31 $M_{\phi\phi}$-3.58 $M_{r\theta}$2.01 $M_{\theta\phi}$-1.39 $M_{\phi r}$0.42 Best double couple: NP1:ϕ_s174.00000°,δ43.00000°,λ50.00000°. NP2:ϕ_s42.00000°,δ58.00000°,λ121.00000°. Principal axes: T 4.2900,Plg62.0000°,Azm4.0000°
; N -0.1200,Plg26.0000°,Azm205.0000°; P -4.1800,Plg8.0000°,Azm111.0000°
$M_0$4.20000×10^{17}

ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.9km az=149.2.
MOS Error ellipse: s-maj=9.3km s-min=7.8km az=65.4.

IDC	**I**	**24 03 10 12.5–12**	**17.79S**	**174.31W**	**0**	**4.0,3.9**			**¶17190853**

IDC Error ellipse: s-maj=390.5km s-min=57.9km az=131.0.

ISC	**I**	**24 04 16 43.1–.70**	**16.5S–.10**	**173.0W–.20**	**32**	**4.0b**	**30**	**3-150**	
IDC	I	24 04 16 39.7–1.3	16.14S	173.39W	0	4.3,4.1			**¶16022418**
ISCJB	I	24 04 16 41.1–.66	16.5S–.10	173.1W–.20	32	4.1b,4.0s			
NEIC	I	24 04 16 43.5–.62	16.57S	173.10W	35	4.0b,4.0s			

ISC Event type se.
IDC Error ellipse: s-maj=73.5km s-min=16.8km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=27.6km s-min=8.2km az=35.4.
NEIC Event type se. Error ellipse: s-maj=31.2km s-min=13.3km az=130.0.

IDC	**I**	**24 15 53 03.7–4.2**	**17.31S**	**175.51W**	**196–39**	**3.9,3.6**			**¶17190903**

IDC Error ellipse: s-maj=246.1km s-min=25.3km az=142.0.

IDC	**I**	**25 03 02 37.0–5.5**	**18.49S**	**174.11W**	**0**	**4.2,4.0**			**¶17190937**

IDC Error ellipse: s-maj=247.8km s-min=34.2km az=144.0.

IDC	**I**	**25 22 18 24.2–1.0**	**18.81S**	**173.70W**	**0**	**4.4,4.1b**			**¶17190990**

IDC Error ellipse: s-maj=42.5km s-min=23.2km az=131.0.

ISC	**I**	**25 23 30 09.7–1.0**	**18.7S–.20**	**174.3W–.20**	**35**	**4.5b**	**23**	**18-149**	
IDC	I	25 23 30 04.5–1.1	18.66S	174.30W	0	4.5,4.3			**¶16135814**
ISCJB	I	25 23 30 08.3–.97	18.8S–.20	174.3W–.20	35	4.4b,4.0s			
NEIC	I	25 23 30 10.1–1.1	18.49S	174.38W	35	4.7b,4.0s			

ISC Event type se.
IDC Error ellipse: s-maj=41.7km s-min=21.6km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=30.2km s-min=17.2km az=148.0.
NEIC Event type se. Error ellipse: s-maj=54.5km s-min=11.3km az=150.0.

ISC I 26 15 58 34.7–.51 18.13S–.09 174.71W–.08 150 4.8b 69 5-149
IDC I 26 15 58 31.6–2.7 18.16S 174.70W 115–26 4.2,4.1 **¶15969003**
BJI I 26 15 58 31.0 18.10S 174.70W 129 5.2b,4.9b
NEIC I 26 15 58 32.4–1.3 18.08S 174.70W 129–13 5.0b,4.9b
ISCJB I 26 15 58 33.8–.33 18.12S–.05 174.77W–.07 150 4.5b,4.9b
ISC Event type fe.
NEIC Event type fe. Felt at Neiafu.
ISCJB Event type fe.
IDC I 26 22 33 23.4–45 15.67S 173.97W 0 4.3,4.1
¶17191063
IDC Error ellipse: s-maj=857.1km s-min=176.7km az=78.0.
ISC I 27 00 59 38.2–.51 15.56S–.05 173.05W–.05 19–1 5.3b,5.3s 954 2-174
IDC I 27 00 59 35.2–.38 15.54S 173.03W 0 5.1s,5.1 **¶15970227**
MOS I 27 00 59 36.1–1.2 15.41S 173.17W 10 5.4b,5.3s
ISCJB I 27 00 59 36.7–2.3 15.62S–.04 173.08W–.03 15–14 5.3s,5.2b
NEIC I 27 00 59 37.9–.65 15.56S 173.12W 16–3 5.4b,5.3s
GCMT I 27 00 59 37.9–.10 15.53S 172.62W 19–0 5.6W,5.3s
BJI I 27 00 59 37.1 15.52S 173.15W 16 5.7b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=15.9km s-min=11.6km az=142.0.
MOS Error ellipse: s-maj=9.3km s-min=7.2km az=67.8.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.7km az=152.4.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.6km az=138.0. Felt at Fagatogo, American Samoa and at Apia, Samoa.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c215; s129,c333;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.73±.04 $M_{\theta\theta}$0.36±.03; $M_{\phi\phi}$-3.08±.03; $M_{r\theta}$0.36±.07; $M_{\theta\phi}$0.49±.02; $M_{\phi r}$1.62±.07; Best double couple: NP1:ϕ_s3.00000° ,δ60.00000°,λ102.00000°. NP2:ϕ_s160.00000°,δ32.00000°,λ70.00000°. Principal axes: T 3.2300,Plg72.0000°,Azm302.0000°; N 0.3170,Plg11.0000°,Azm177.0000° ; P -3.5400,Plg14.0000°,Azm84.0000° $M_0$3.38500×10^{17}
IDC I 27 01 37 27.0–3.9 15.08S 173.24W 0 3.8,3.6
¶17191070
IDC Error ellipse: s-maj=211.5km s-min=24.1km az=146.0.
ISC I 27 16 17 19.4–.28 19.41S–.06 173.33W–.05 25 5.1b,4.8s 631 6-172
IDC I 27 16 17 15.4–.48 19.39S 173.42W 0 5.0,4.9b **¶16135958**
MOS I 27 16 17 15.6–1.5 19.36S 173.44W 10 5.2b,4.6s
BJI I 27 16 17 16.8 19.21S 173.51W 11 5.6b,5.1b
NEIC I 27 16 17 17.1–.12 19.21S 173.50W 10 5.2b,5.1b
ISCJB I 27 16 17 18.0–.12 19.27S–.04 173.51W–.03 25 5.1b,4.8s
GCMT I 27 16 17 17.1–.20 19.42S 172.80W 14–0 5.1W,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=13.2km az=149.0.
MOS Error ellipse: s-maj=10.8km s-min=8.3km az=46.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.2km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.0km az=143.4.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c71; s97,c150; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.23±.18 $M_{\theta\theta}$-0.89±.12; $M_{\phi\phi}$-4.34±.13; $M_{r\theta}$2.15±.31; $M_{\theta\phi}$-1.85±.09; $M_{\phi r}$1.69±.25; Best double couple: NP1:ϕ_s36.00000°,δ59.00000° ,λ103.00000°. NP2:ϕ_s192.00000°,δ34.00000°,λ70.00000°. Principal axes: T 6.0250,Plg73.0000°,Azm338.0000°; N -0.3340,Plg11.0000°,Azm209.0000° ; P -5.6900,Plg13.0000°,Azm117.0000° $M_0$5.85700×10^{16}
IDC I 28 05 20 39.3–65 16.32S 174.31W 0 3.9,3.7
¶17191174
IDC Error ellipse: s-maj=1238.0km s-min=198.8km az=79.0.
ISC I 28 11 17 23.7–.58 15.20S–.10 173.1W–.10 78–4 4.7b 158 2-149
IDC I 28 11 17 12.8–.51 15.15S 173.22W 0 4.7,4.5 **¶15990761**
ISCJB I 28 11 17 21.5–.29 15.25S–.07 173.31W–.07 78 4.6b,4.5
NEIC I 28 11 17 23.1–.21 15.25S 173.24W 78 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=25.0km s-min=12.9km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.5km az=141.5.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.6km az=140.0.
IDC I 28 13 45 21.2–47 15.79S 175.14W 0 4.1,3.9
¶17191196
IDC Error ellipse: s-maj=889.1km s-min=178.9km az=78.0.
IDC I 28 15 07 31.2–9.8 17.63S 175.45W 0 3.8,3.5
¶17191198
IDC Error ellipse: s-maj=436.2km s-min=35.5km az=142.0.
IDC I 28 15 16 27.5–8.1 15.10S 173.42W 0 4.0,3.7
¶17191199
IDC Error ellipse: s-maj=362.4km s-min=35.9km az=139.0.
ISC I 28 15 25 35.0–.80 15.2S–.20 173.2W–.20 29 4.1s,4.0b 17 2-146
IDC I 28 15 25 30.5–.77 15.22S 173.20W 0 4.4,4.2 **¶15990762**
NEIC I 28 15 25 31.7–.68 15.15S 173.13W 10 4.0b,4.2
ISCJB I 28 15 25 33.0–.68 15.3S–.20 173.2W–.20 29 4.1s,4.1b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 28 15 31 58.6–2.3 15.47S 173.04W 0 4.3,4.0b
¶15990763
IDC Error ellipse: s-maj=131.9km s-min=21.0km az=143.0.
IDC I 28 17 25 09.0–17 18.61S 173.85W 0 4.4,4.3
¶17191203
IDC Error ellipse: s-maj=328.7km s-min=147.9km az=80.0.
IDC I 29 20 34 51.6–2.7 15.37S 173.25W 0 4.1,3.8b
¶15990770
IDC Error ellipse: s-maj=151.0km s-min=27.0km az=142.0.
ISC I 30 11 16 04.1–.57 18.97S–.09 173.4W–.10 28 4.5b,3.9s 47 5-173
IDC I 30 11 15 59.4–.64 19.19S 173.41W 0 4.5,4.4 **¶15990773**
NEIC I 30 11 16 01.5–.34 19.11S 173.47W 10 4.9b,4.4
ISCJB I 30 11 16 02.7–.46 19.13S–.09 173.54W–.09 28 4.5b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 30 21 29 24.0–31 15.80S 175.40W 0 4.2,4.0
¶17191365
IDC Error ellipse: s-maj=607.1km s-min=152.7km az=85.0.
ISC I 31 01 14 02.9–.79 15.3S–.20 173.1W–.20 29 4.0b,3.9s 19 2-146
IDC I 31 01 13 58.1–1.2 15.61S 173.11W 0 4.2,4.2L **¶16009330**
NEIC I 31 01 13 59.9–.50 15.29S 173.31W 10 4.1b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=60.1km s-min=18.1km az=142.0.
NEIC Event type se. Error ellipse: s-maj=29.7km s-min=9.6km az=143.0.
IDC I 31 03 16 53.4–6.9 21.82S 175.35W 0 4.2L,4.1
¶17191383
IDC Error ellipse: s-maj=238.5km s-min=33.2km az=137.0.
ISC I 31 06 03 26.3–.31 22.00S–.03 175.54W–.04 69–2 6.0b 2116 6-179
MOS I 31 06 03 21.3–.93 21.89S 175.64W 33 6.2b,5.1s **¶601990432**
IDC I 31 06 03 22.3–1.5 21.92S 175.51W 33–10 5.7,5.5
BJI I 31 06 03 25.2 21.64S 175.32W 67 5.9b,5.7b
NEIC I 31 06 03 26.0–.00 21.94S 175.51W 76 5.9b,5.7b
NEIC I 31 06 03 27.3–.09 22.01S 175.62W 76 6.2,6.0W
GCMT I 31 06 03 27.3–.10 21.91S 175.13W 90–0 6.0W,6.0W
ISCJB I 31 06 03 28.7–.07 22.06S–.02 175.66W–.02 100 5.8b,6.0W
NEIC I 31 06 03 45.5–.00 21.88S 175.40W 77 5.8b,6.0W
ISC Event type fe.
MOS Error ellipse: s-maj=8.0km s-min=5.9km az=69.7.
IDC Error ellipse: s-maj=11.8km s-min=9.7km az=147.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ88.00000° ,λ-46.00000°. NP2:ϕ_s64.00000°,δ43.00000°,λ-177.00000°. Principal axes: T 1.2800,Plg30.0000°,Azm29.0000°; N -0.2400,Plg44.0000°,Azm151.0000° ; P -1.0400,Plg32.0000°,Azm278.0000°
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=138.0. Felt [IV] at Nuku'alofa. Also felt at Havelu, 'Ohonua and Vaini. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$2.00000×10^{18} Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000° ,δ90.00000°,λ64.00000°. NP2:ϕ_s54.00000°,δ26.00000°,λ179.00000°. Principal axes: T 1.2200,Plg40.0000°,Azm31.0000°; N -0.1500,Plg26.0000°,Azm145.0000° ; P -1.0700,Plg39.0000°,Azm258.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c297; s141,c450;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.15±.01 $M_{\theta\theta}$0.82±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.51±.01; $M_{\theta\phi}$-0.61±.01; $M_{\phi r}$-0.65±.01; Best double couple: NP1:ϕ_s331.00000°,δ88.00000°,λ-41.00000°. NP2:ϕ_s63.00000° ,δ49.00000°,λ-177.00000°. Principal axes: T 1.3770,Plg26.0000°,Azm25.0000° ; N -0.2330,Plg49.0000°,Azm149.0000°; P -1.1430,Plg29.0000°,Azm279.0000° $M_0$1.26000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=144.7.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ87.00000° ,λ41.00000°. NP2:ϕ_s66.00000°,δ49.00000°,λ176.00000°. Principal axes: T 1.4500,Plg30.0000°,Azm31.0000°; N -0.2300,Plg49.0000°,Azm162.0000° ; P -1.2100,Plg26.0000°,Azm285.0000°
IDC I 31 07 15 37.5–49 16.11S 175.20W 0 4.0,3.8
¶17191392
IDC Error ellipse: s-maj=932.9km s-min=176.9km az=78.0.
IDC I 31 11 55 44.9–2.2 16.18S 173.14W 0 4.1,3.8L
¶17191404
IDC Error ellipse: s-maj=112.3km s-min=21.5km az=144.0.
IDC I 31 16 11 03.0–3.6 19.81S 175.79W 0 4.3,4.1
¶17191419
IDC Error ellipse: s-maj=154.3km s-min=57.4km az=145.0.
IDC II 01 06 10 13.0–27 21.63S 173.07W 0 4.5,4.3
¶17191460
IDC Error ellipse: s-maj=495.0km s-min=153.7km az=75.0.
ISC II 01 17 50 38.3–.81 19.85S–.05 175.78W–.06 225–7 4.9b 424 6-164
BJI II 01 17 50 31.0 19.90S 175.01W 195 5.2b,4.9b **¶15995165**
ISCJB II 01 17 50 36.3–.99 19.72S–.04 175.89W–.04 214–10 4.9b,4.9b
MOS II 01 17 50 36.0–2.2 19.45S 176.11W 189 5.1b,4.9b
IDC II 01 17 50 38.5–1.6 19.80S 175.75W 226–13 4.8,4.4
NEIC II 01 17 50 40.3–1.6 19.72S 175.84W 242–15 5.2b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.1km az=35.5.
MOS Error ellipse: s-maj=10.2km s-min=8.6km az=169.6.
IDC Error ellipse: s-maj=12.2km s-min=8.6km az=147.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.3km az=159.0.
ISC II 03 11 13 44.7–.44 18.68S–.08 175.83W–.09 10 4.8b,4.5s 100 6-174
IDC II 03 11 13 42.1–.65 18.74S 175.90W 0 4.4s,4.4 **¶16002090**
NEIC II 03 11 13 44.2–.40 18.62S 175.97W 10 5.0b,4.4
ISCJB II 03 11 13 44.9–.36 18.86S–.07 176.08W–.08 10 4.7b,4.5s
BJI II 03 11 13 49.7 18.17S 176.76W 10 5.4b,5.1s
MOS II 03 11 13 51.4–2.0 18.51S 176.69W 33 5.2b,5.1s
GCMT II 03 11 13 56.2–.10 18.70S 175.66W 12 5.2W,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=16.6km az=139.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=9.2km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=7.7km az=40.5.
MOS Error ellipse: s-maj=14.6km s-min=12.0km az=145.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c97; s110,c197; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.01 $M_{\theta\theta}$-0.67±.01; $M_{\phi\phi}$0.63±.01; $M_{r\theta}$-0.18±.03; $M_{\theta\phi}$-0.37±.01; $M_{\phi r}$0.23±.03; Best double couple: NP1:ϕ_s299.00000°,δ83.00000° ,λ161.00000°. NP2:ϕ_s31.00000°,δ71.00000°,λ8.00000°. Principal axes: T 0.8300,Plg19.0000°,Azm254.0000°; N -0.0470,Plg69.0000°,Azm99.0000° ; P -0.7830,Plg8.0000°,Azm347.0000° $M_0$0.80700×10^{17}
ISC II 03 21 13 10.5–.64 19.5S–.10 175.8W–.10 219 3.7b 22 7-150
ISCJB II 03 21 13 09.5–.52 19.39S–.10 176.0W–.10 219 3.6b **¶17191620**
IDC II 03 21 13 09.0–2.5 19.41S 175.94W 201–24 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=9.6km az=31.6.
IDC Error ellipse: s-maj=25.8km s-min=11.9km az=141.0.
IDC II 04 04 49 29.4–3.5 15.54S 173.99W 0 4.5L,4.4
¶17191633
IDC Error ellipse: s-maj=177.1km s-min=24.5km az=146.0.
ISC II 04 07 04 30.6–.65 21.2S–.10 173.7W–.10 38 4.3b 21 8-171
IDC II 04 07 04 25.0–1.2 21.30S 173.73W 0 4.4,4.2 **¶16009351**
NEIC II 04 07 04 26.3–.53 21.28S 173.54W 10 4.6b,4.2
ISCJB II 04 07 04 29.3–.55 21.2S–.10 173.9W–.10 38 4.3b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 04 08 19 21.7–.79 15.2S–.20 173.4W–.20 10 4.0b 11 2-146
IDC II 04 08 19 19.4–2.5 15.45S 173.17W 0 4.8,4.6s **¶16022436**
ISCJB II 04 08 19 20.4–.69 15.2S–.20 173.4W–.20 10 4.1b,4.6s
NEIC II 04 08 19 21.9–.63 15.22S 173.35W 10 4.3b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=142.7km s-min=22.8km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=32.0km s-min=12.2km az=135.7.
NEIC Event type se. Error ellipse: s-maj=30.7km s-min=11.7km az=136.0.
ISC II 05 03 15 52.9–1.3 15.2S–.40 173.1W–.30 29 4.2b,3.7s 19 2-146
IDC II 05 03 15 48.0–1.3 15.73S 172.96W 0 4.4,4.1 **¶16009355**
NEIC II 05 03 15 50.0–.89 15.33S 173.13W 10 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=87.3km s-min=17.9km az=148.0.
NEIC Event type se. Error ellipse: s-maj=64.1km s-min=11.2km az=147.0.
IDC II 05 06 04 53.0–3.6 15.56S 173.60W 0 4.0,3.7
¶17191718
IDC Error ellipse: s-maj=244.0km s-min=21.5km az=149.0.
IDC II 05 09 42 21.5–9.8 15.70S 173.04W 0 3.9,3.6
¶17191726
IDC Error ellipse: s-maj=446.3km s-min=35.6km az=139.0.
ISC II 05 11 23 06.6–.70 16.0S–.20 175.1W–.10 278 3.8b 23 4-149
ISCJB II 05 11 23 05.4–.60 16.0S–.20 175.1W–.10 278 3.7b **¶17191732**
IDC II 05 11 23 06.9–1.8 16.00S 175.11W 278–18 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.6km s-min=9.4km az=147.5.
IDC Error ellipse: s-maj=25.5km s-min=12.5km az=138.0.
IDC II 05 13 06 44.0–7.6 17.30S 174.55W 0 3.7,3.6L
¶17191739
IDC Error ellipse: s-maj=334.1km s-min=23.6km az=140.0.
IDC II 05 23 11 43.1–7.7 19.47S 175.00W 0 3.9,3.7
¶17191762
IDC Error ellipse: s-maj=374.9km s-min=66.8km az=147.0.
IDC II 07 05 50 55.6–3.1 15.87S 173.09W 0 3.9,3.6
¶17191849
IDC Error ellipse: s-maj=150.5km s-min=23.9km az=141.0.
IDC II 07 08 53 28.4–54 15.64S 175.22W 0 3.8,3.7
¶17191852
IDC Error ellipse: s-maj=1022.0km s-min=186.8km az=78.0.
IDC II 07 15 24 42.2–3.6 15.88S 173.46W 0 4.4L,4.2
¶16029773
IDC Error ellipse: s-maj=207.7km s-min=22.0km az=146.0.
ISC II 07 16 36 02.9–1.5 18.8S–.30 174.1W–.30 35 4.3b,3.4s 14 5-148
IDC II 07 16 35 56.2–1.5 19.21S 173.81W 0 4.3,4.1 **¶16026104**
ISCJB II 07 16 36 01.2–.98 18.7S–.20 174.2W–.20 35 4.2b,3.5s
NEIC II 07 16 36 01.8–.82 19.06S 173.93W 35 4.7b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=74.5km s-min=18.5km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=37.3km s-min=8.8km az=41.8.
NEIC Event type se. Error ellipse: s-maj=35.5km s-min=8.9km az=142.0.
IDC II 08 17 03 09.0–6.1 17.97S 174.23W 0 4.1,3.9
¶17191902
IDC Error ellipse: s-maj=275.4km s-min=61.9km az=147.0.
IDC II 08 20 03 01.1–4.7 16.55S 175.54W 0 4.5,4.4
¶17191907
IDC Error ellipse: s-maj=166.8km s-min=94.3km az=156.0.
IDC II 09 01 29 24.9–12 15.54S 173.01W 0 4.0,3.7
¶17191924
IDC Error ellipse: s-maj=566.4km s-min=24.9km az=140.0.
IDC II 09 05 35 36.6–14 16.99S 174.24W 85–121 4.2,4.1
¶17191931
IDC Error ellipse: s-maj=73.3km s-min=27.2km az=133.0.

IDC II 10 06 10 59.5–2.8 18.07S 173.14W 0 4.4,4.0 ¶17191995
IDC Error ellipse: s-maj=156.3km s-min=23.3km az=150.0.
IDC II 10 19 43 53.1–18 20.91S 174.30W 0 4.1,4.0 ¶17192033
IDC Error ellipse: s-maj=352.5km s-min=161.4km az=83.0.
ISC II 11 02 45 55.9–1.1 20.7S–.20 174.5W–.20 27 4.3b 26 7-154
IDC II 11 02 45 51.5–1.2 20.97S 174.38W 0 4.5L,4.3 **¶16397988**
NEIC II 11 02 45 52.8–.72 20.87S 174.46W 10 4.5b,4.3
ISCJB II 11 02 45 54.5–1.1 20.7S–.20 174.6W–.20 27 4.1b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 11 02 46 21.8–.61 20.92S–.08 174.46W–.08 33–2 4.9b,4.7s 269 7-171
IDC II 11 02 46 16.0–.55 21.04S 174.40W 0 4.7,4.6 **¶17192043**
NEIC II 11 02 46 18.6–3.3 20.80S 174.51W 12–19 5.0b,4.6
GCMT II 11 02 46 18.6–.50 20.77S 174.00W 30–1 5.0W,4.6
ISCJB II 11 02 46 20.4–.23 20.88S–.05 174.61W–.05 33 4.9b,4.7s
MOS II 11 02 46 21.0–.87 20.82S 174.60W 33 5.0b,4.7s
BJI II 11 02 46 21.7 20.80S 174.50W 35 5.6b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=24.7km s-min=14.6km az=138.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.1km az=132.0.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c35; s60,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.72±.30 $M_{\theta\theta}$0.41±.22; $M_{\phi\phi}$-3.14±.18; $M_{r\theta}$-1.47±.42; $M_{\theta\phi}$-1.34±.14; $M_{\phi r}$0.51±.25; Best double couple: NP1:ϕ_s352.00000°,δ52.00000°,λ51.00000°. NP2:ϕ_s225.00000°,δ52.00000°,λ129.00000°. Principal axes: T 3.6020,Plg60.0000°,Azm199.0000°; N -0.0190,Plg30.0000°,Azm18.0000°; P -3.5890,Plg0.0000°,Azm108.0000° $M_0$3.59500×10^{16}
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.1km az=44.6.
MOS Error ellipse: s-maj=14.1km s-min=11.4km az=149.6.
ISC II 12 17 57 56.2–.28 20.85S–.03 175.59W–.04 86–2 6.0b 1976 7-178
MOS II 12 17 57 51.5–.95 20.71S 175.67W 50 6.3b,5.4s **¶16022200**
ISCJB II 12 17 57 54.9–.06 20.97S–.02 175.65W–.02 87 5.9b,5.4s
BJI II 12 17 57 54.5 20.90S 175.70W 80 6.2b,6.0b
NEIC II 12 17 57 56.1–.08 20.88S 175.67W 85 6.1W,6.1W
GCMT II 12 17 57 56.6–.10 20.93S 175.19W 112–0 6.1W,6.1W
IDC II 12 17 57 56.6–1.2 20.84S 175.61W 87–9 5.8,5.5
NEIC II 12 17 57 57.0–.00 21.07S 175.28W 89 5.8,5.5
ISC Event type fe.
MOS Error ellipse: s-maj=7.6km s-min=5.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.7km az=42.9.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=137.0. Felt [III] at Nuku'alofa. Also felt at Pangai and Vaini. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. $M_0$2.00000×10^{18} Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.36 $M_{\theta\theta}$1.44 $M_{\phi\phi}$-0.08 $M_{r\theta}$0.56 $M_{\theta\phi}$0.85 $M_{\phi r}$-0.72 Best double couple: NP1:ϕ_s274.00000°,δ57.00000°,λ-52.00000°. NP2:ϕ_s38.00000°,δ49.00000°,λ-133.00000°. Principal axes: T 1.8400,Plg4.0000°,Azm338.0000°; N 0.0700,Plg31.0000°,Azm70.0000°; P -1.9100,Plg58.0000°,Azm240.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c313; s141,c480;Duration: 2s8 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.95±.01 $M_{\theta\theta}$1.05±.01; $M_{\phi\phi}$-0.09±.01; $M_{r\theta}$0.43±.01; $M_{\theta\phi}$1.18±.01; $M_{\phi r}$-0.90±.01; Best double couple: NP1:ϕ_s23.00000°,δ61.00000°,λ-141.00000°. NP2:ϕ_s272.00000°,δ57.00000°,λ-35.00000°. Principal axes: T 1.7940,Plg3.0000°,Azm147.0000°; N 0.1010,Plg43.0000°,Azm54.0000°; P -1.8930,Plg47.0000°,Azm240.0000° $M_0$1.84400×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=146.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ64.00000°,λ-43.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ-145.00000°. Principal axes: T 1.2000,Plg7.0000°,Azm331.0000°; N 0.4500,Plg40.0000°,Azm68.0000°; P -1.6500,Plg48.0000°,Azm233.0000°
ISC II 13 05 21 33.3–1.3 20.3S–.30 174.2W–.20 27 4.0b 17 7-151
IDC II 13 05 21 28.9–1.3 20.37S 174.18W 0 4.2,4.1 **¶16358601**
ISCJB II 13 05 21 32.1–1.2 20.2S–.20 174.3W–.20 27 3.8b,4.1
NEIC II 13 05 21 32.8–.67 20.57S 173.92W 35 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=56.5km s-min=18.8km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=41.8km s-min=12.0km az=142.3.
NEIC Event type se. Error ellipse: s-maj=23.3km s-min=12.3km az=157.0.
IDC II 13 19 17 31.9–50 18.90S 175.54W 0 4.4,4.2 ¶17192166
IDC Error ellipse: s-maj=943.6km s-min=162.4km az=82.0.
IDC II 14 16 30 20.7–4.6 16.09S 173.49W 0 3.8,3.7b ¶17192255
IDC Error ellipse: s-maj=215.2km s-min=24.5km az=138.0.
IDC II 14 18 25 32.6–3.6 20.86S 175.24W 0 4.0,3.8 ¶17192261
IDC Error ellipse: s-maj=203.3km s-min=59.6km az=157.0.
IDC II 14 21 55 04.6–8.9 16.04S 173.43W 0 3.9,3.6 ¶17192267
IDC Error ellipse: s-maj=407.2km s-min=66.5km az=141.0.
IDC II 15 02 28 39.7–3.5 19.67S 174.93W 0 3.9,3.6 ¶17192279
IDC Error ellipse: s-maj=190.7km s-min=29.6km az=150.0.
IDC II 15 08 51 55.4–3.1 15.54S 173.62W 69–27 3.9,3.9 ¶17192293
IDC Error ellipse: s-maj=117.5km s-min=17.2km az=145.0.
IDC II 15 18 07 49.0–3.6 17.77S 174.16W 0 3.9,3.6 ¶17192316
IDC Error ellipse: s-maj=193.4km s-min=29.9km az=148.0.
IDC II 16 04 05 21.3–2.4 15.62S 175.44W 0 3.9,3.8L ¶17192339
IDC Error ellipse: s-maj=129.3km s-min=26.8km az=151.0.
IDC II 16 08 42 52.8–48 16.33S 175.72W 0 4.4,4.2 ¶17192354
IDC Error ellipse: s-maj=912.7km s-min=158.7km az=78.0.
IDC II 17 01 43 46.0–1.0 16.53S 173.61W 0 4.0,3.7L ¶17192396
IDC Error ellipse: s-maj=51.5km s-min=19.5km az=134.0.
IDC II 18 04 57 01.9–2.9 15.87S 175.40W 0 4.0,3.8 ¶17192457
IDC Error ellipse: s-maj=69.0km s-min=43.4km az=87.0.
IDC II 18 11 40 41.5–9.6 17.11S 174.57W 0 3.9,3.6 ¶17192475
IDC Error ellipse: s-maj=427.3km s-min=36.7km az=141.0.
ISC II 19 03 33 02.2–1.2 18.5S–.20 174.8W–.30 35 4.4b 14 21-149
IDC II 19 03 32 57.1–1.4 18.46S 174.88W 0 4.3,4.1 **¶16327673**
ISCJB II 19 03 33 00.6–1.1 18.6S–.20 174.9W–.20 35 4.3b,3.6s
NEIC II 19 03 33 02.3–.60 18.50S 174.85W 35 4.5b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=56.0km s-min=28.7km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=37.2km s-min=18.7km az=35.5.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=12.4km az=126.0.
IDC II 19 03 51 21.7–6.8 15.85S 174.05W 0 4.0,3.7 ¶17192517
IDC Error ellipse: s-maj=341.0km s-min=53.3km az=144.0.
IDC II 19 04 34 16.1–4.9 18.14S 175.29W 0 4.3,3.9 ¶17192518
IDC Error ellipse: s-maj=352.3km s-min=32.1km az=152.0.
IDC II 20 08 17 41.4–2.8 20.89S 174.88W 0 4.2,3.9 ¶17192577
IDC Error ellipse: s-maj=122.4km s-min=26.1km az=144.0.
ISC II 20 10 45 23.0–.51 19.10S–.09 173.5W–.10 28 4.5b,3.8s 53 5-152
IDC II 20 10 45 18.6–.60 19.25S 173.50W 0 4.5,4.3 **¶16196343**
NEIC II 20 10 45 20.3–.24 19.21S 173.53W 10 4.8b,4.3
ISCJB II 20 10 45 21.4–.37 19.22S–.07 173.58W–.09 28 4.5b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 20 13 22 09.7–2.5 16.03S 173.34W 0 4.0,3.7 ¶17192587
IDC Error ellipse: s-maj=134.9km s-min=21.5km az=145.0.
ISC II 21 18 50 03.5–.88 19.9S–.20 173.3W–.20 25 4.2b,3.4s 22 6-151
IDC II 21 18 49 59.5–.97 19.85S 173.31W 0 4.4,4.2 **¶16176405**
ISCJB II 21 18 50 01.6–.71 20.0S–.20 173.4W–.10 25 4.2b,3.5s
NEIC II 21 18 50 01.8–.93 19.40S 173.51W 10 4.8b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=42.8km s-min=17.5km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=25.7km s-min=12.3km az=142.7.
NEIC Event type se. Error ellipse: s-maj=37.6km s-min=11.6km az=144.0.
IDC II 23 14 26 42.1–50 15.82S 174.77W 0 4.0,3.9 ¶17192747
IDC Error ellipse: s-maj=948.5km s-min=170.8km az=78.0.
ISC II 24 03 01 16.6–.28 17.82S–.05 174.42W–.04 123–2 5.3b 1262 4-175
MOS II 24 03 01 10.1–1.0 17.58S 174.49W 71 5.6b,4.3s **¶16168914**
BJI II 24 03 01 15.6 17.15S 174.18W 113 5.4b,5.3b
ISCJB II 24 03 01 15.1–.09 17.80S–.03 174.46W–.02 121 5.3b,5.3b
NEIC II 24 03 01 16.5–.08 17.81S 174.43W 122 5.6W,5.3b
IDC II 24 03 01 16.9–.47 17.76S 174.42W 124–4 5.2,5.0
GCMT II 24 03 01 16.5–.10 17.68S 174.04W 131–0 5.4W,5.0
ISC Event type fe.
MOS Error ellipse: s-maj=8.4km s-min=6.7km az=55.2.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.3km az=149.8.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.2km az=142.0. Felt at Neiafu. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.91 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$2.16 $M_{r\theta}$-0.72 $M_{\theta\phi}$1.55 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s63.00000°,δ85.00000°,λ-28.00000°. NP2:ϕ_s155.00000°,δ62.00000°,λ-175.00000°. Principal axes: T 3.0700,Plg16.0000°,Azm112.0000°; N -1.0800,Plg62.0000°,Azm234.0000°; P -1.9900,Plg23.0000°,Azm16.0000° $M_0$2.70000×10^{17}
IDC Error ellipse: s-maj=13.6km s-min=10.6km az=132.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c192; s128,c253;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.02 $M_{\theta\theta}$0.18±.02; $M_{\phi\phi}$0.14±.02; $M_{r\theta}$-0.57±.02; $M_{\theta\phi}$0.26±.02; $M_{\phi r}$-1.45±.01; Best double couple: NP1:ϕ_s22.00000°,δ84.00000°,λ-97.00000°. NP2:ϕ_s253.00000°,δ9.00000°,λ-39.00000°. Principal axes: T 1.6090,Plg39.0000°,Azm119.0000°; N -0.0080,Plg7.0000°,Azm23.0000°; P -1.6010,Plg50.0000°,Azm284.0000° $M_0$1.60500×10^{17}
IDC II 24 16 48 41.3–2.7 16.30S 173.64W 0 4.3,4.1 ¶17192796
IDC Error ellipse: s-maj=195.7km s-min=29.0km az=148.0.
IDC II 24 17 42 18.7–26 21.20S 173.14W 0 4.3,4.2b ¶17192801
IDC Error ellipse: s-maj=492.3km s-min=159.2km az=75.0.
IDC II 24 18 21 12.2–53 16.34S 175.15W 0 4.4,4.2 ¶17192802
IDC Error ellipse: s-maj=1010.0km s-min=159.1km az=79.0.
ISC II 24 21 39 39.8–1.4 20.0S–.20 174.2W–.20 31 4.4b 9 10-85
IDC II 24 21 39 35.1–27 19.95S 174.25W 0 4.4,4.2 **¶16363014**
NEIC II 24 21 39 36.6–.92 19.98S 174.25W 10 4.3b,4.2
ISCJB II 24 21 39 38.2–1.3 20.2S–.20 174.3W–.20 31 4.4b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 25 02 15 24.4–2.7 16.69S 173.80W 0 4.1,3.8b ¶17192815
IDC Error ellipse: s-maj=133.5km s-min=22.1km az=142.0.
IDC II 26 05 54 19.5–26 18.00S 174.88W 0 4.4,4.3b ¶17192888
IDC Error ellipse: s-maj=475.5km s-min=151.0km az=73.0.
IDC II 26 08 36 46.6–2.3 15.21S 174.36W 0 4.5L,4.0 ¶17192897
IDC Error ellipse: s-maj=128.8km s-min=26.2km az=153.0.
IDC II 27 05 43 30.3–4.7 15.63S 173.58W 0 4.4,4.2 ¶17192935
IDC Error ellipse: s-maj=206.4km s-min=34.7km az=136.0.
IDC II 27 16 33 48.1–4.5 16.00S 175.47W 0 3.9,3.7 ¶17192960
IDC Error ellipse: s-maj=202.1km s-min=32.5km az=137.0.
ISC II 28 02 03 14.2–.42 17.72S–.09 173.79W–.07 10 5.0s,5.0b 134 4-174
ISCJB II 28 02 03 13.0–.20 17.70S–.05 173.83W–.05 10 5.0s,4.9b **¶16160702**
IDC II 28 02 03 12.2–.65 17.81S 173.73W 0 4.9,4.8
NEIC II 28 02 03 14.7–3.8 17.70S 173.81W 13–23 5.0b,4.8
BJI II 28 02 03 14.5 17.90S 173.91W 20 5.5b,5.4s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.8km az=43.5.
IDC Error ellipse: s-maj=24.8km s-min=17.0km az=148.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.6km az=136.0.
ISC II 28 02 59 41.6–1.2 18.4S–.20 173.1W–.20 19 4.1b 8 5-85
IDC II 28 02 59 38.9–1.4 18.44S 173.04W 0 4.3,4.1 **¶17192976**
ISCJB II 28 02 59 39.8–1.1 18.4S–.10 173.1W–.20 19 4.1b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC II 28 06 52 06.1–5.8 16.83S 175.74W 0 3.9,3.6 ¶17192986
IDC Error ellipse: s-maj=438.7km s-min=30.9km az=152.0.
IDC II 28 13 18 07.6–1.5 16.28S 173.40W 0 4.0,3.7 ¶17192998
IDC Error ellipse: s-maj=54.3km s-min=29.6km az=138.0.
IDC III 01 00 31 00.1–2.7 18.67S 173.79W 0 4.2,4.0 ¶17193027
IDC Error ellipse: s-maj=114.4km s-min=27.8km az=142.0.
ISC III 01 09 13 32.8–.56 15.3S–.10 174.0W–.10 94 4.5b 29 3-154
ISCJB III 01 09 13 31.5–.46 15.3S–.10 174.00W–.10 94 4.4b **¶16442166**
NEIC III 01 09 13 34.1–1.1 15.34S 173.93W 106–10 4.6b
IDC III 01 09 13 34.2–2.4 15.27S 173.95W 104–22 4.5,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=7.5km az=146.1.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=7.4km az=138.0.
IDC Error ellipse: s-maj=36.9km s-min=12.5km az=146.0.
ISC III 02 13 07 35.4–.79 18.4S–.10 173.1W–.20 19 3.9b 14 5-85
IDC III 02 13 07 32.1–1.4 18.65S 172.94W 0 4.2,3.9 **¶16318194**
NEIC III 02 13 07 33.9–.56 18.56S 173.00W 10 4.5b,3.9
ISCJB III 02 13 07 33.7–.66 18.6S–.10 173.0W–.10 19 3.9b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 02 15 23 12.9–1.7 18.38S 173.06W 0 3.9,3.9 ¶17193145
IDC Error ellipse: s-maj=73.9km s-min=24.7km az=144.0.
IDC III 02 15 25 08.8–5.1 18.37S 173.23W 0 3.8,3.6 ¶17193146
IDC Error ellipse: s-maj=182.4km s-min=29.6km az=134.0.
IDC III 02 16 45 49.5–3.7 20.25S 175.97W 0 3.9,3.7 ¶17193150
IDC Error ellipse: s-maj=245.3km s-min=74.0km az=162.0.
IDC III 02 19 29 51.3–6.0 16.75S 173.89W 86–37 3.7,3.7 ¶17193157
IDC Error ellipse: s-maj=168.8km s-min=24.2km az=145.0.
IDC III 04 08 18 24.2–2.6 15.95S 173.57W 0 3.8,3.7 ¶17193224
IDC Error ellipse: s-maj=146.8km s-min=22.2km az=146.0.
IDC III 04 10 30 18.3–54 19.76S 173.69W 0 4.0,3.8 ¶17193228
IDC Error ellipse: s-maj=1020.0km s-min=186.4km az=83.0.
IDC III 04 12 58 06.1–3.1 15.36S 173.18W 0 3.8,3.5 ¶17193231
IDC Error ellipse: s-maj=175.2km s-min=25.6km az=144.0.
IDC III 04 13 18 10.0–3.5 17.14S 173.96W 0 4.1,4.0 ¶17193232
IDC Error ellipse: s-maj=160.5km s-min=31.7km az=137.0.
IDC III 05 02 09 16.9–3.0 17.14S 174.90W 185–25 4.1,3.9

¶17193258
IDC Error ellipse: s-maj=100.0km s-min=17.7km az=145.0.
ISC III 06 03 22 00.9–1.9 18.3S–.30 173.9W–.30 28 3.8b 6 5-85
IDC III 06 03 21 54.8–2.2 18.92S 173.53W 0 4.0,3.8 ¶17193319
ISCJB III 06 03 21 59.5–1.8 18.2S–.30 174.0W–.30 28 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 22 47 55.3–1.7 15.1S–.60 173.9W–.30 73 3.9b 11 2-154
ISCJB III 06 22 47 53.6–1.4 15.1S–.60 173.9W–.30 73 3.7b ¶17193385
IDC III 06 22 47 55.3–2.9 15.20S 173.90W 74–28 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=90.9km s-min=10.4km az=155.1.
IDC Error ellipse: s-maj=102.7km s-min=17.5km az=150.0.
IDC III 07 04 04 36.1–2.0 16.18S 173.22W 0 3.8,3.6
¶17193394
IDC Error ellipse: s-maj=113.4km s-min=26.6km az=150.0.
ISC III 07 08 02 38.6–.91 15.7S–.10 174.00W–.09 100 4.4b 16 3-85
NEIC III 07 08 02 35.5–2.0 15.85S 174.07W 62–18 4.6b ¶602442142
ISCJB III 07 08 02 37.3–.68 15.78S–.09 173.97W–.07 100 4.7b
IDC III 07 08 02 51.5–48 16.65S 177.06W 0 4.6s,4.6
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=26.1km s-min=14.8km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.1km az=152.2.
IDC Error ellipse: s-maj=896.1km s-min=153.1km az=78.0.
IDC III 07 08 03 56.0–5.0 16.49S 175.16W 0 4.7,4.5
¶17193402
IDC Error ellipse: s-maj=161.4km s-min=98.8km az=152.0.
ISC III 08 03 45 58.7–.56 21.79S–.08 174.6W–.10 30 4.5b,3.8s 47 8-152
IDC III 08 03 45 53.9–.74 21.53S 174.46W 0 4.5,4.4 ¶16298664
ISCJB III 08 03 45 57.0–.50 21.65S–.10 174.6W–.10 30 4.4b,3.8s
NEIC III 08 03 45 59.1–.46 21.60S 174.53W 35 4.7b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=29.9km s-min=17.5km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=11.0km az=135.2.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=11.4km az=127.0.
IDC III 08 14 01 39.1–5.7 15.31S 173.72W 0 4.7L,4.2
¶17193471
IDC Error ellipse: s-maj=450.2km s-min=21.8km az=151.0.
ISC III 08 18 46 56.3–.47 15.32S–.09 173.14W–.08 29 4.6b,3.6s 59 2-148
IDC III 08 18 46 51.6–.61 15.26S 173.34W 0 4.5,4.3 ¶16295210
ISCJB III 08 18 46 54.6–.37 15.38S–.09 173.31W–.09 29 4.7b,3.6s
BJI III 08 18 46 55.7 16.44S 174.01W 43 5.3b,5.2s
NEIC III 08 18 46 56.9–.29 15.36S 173.33W 35 4.8b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=27.3km s-min=14.6km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=9.3km az=137.4.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.7km az=139.0.
ISC III 09 13 51 30.2–.34 20.06S–.06 174.14W–.06 31 5.1b,4.0s 146 4-151
IDC III 09 13 51 26.0–.52 20.10S 174.22W 0 4.8,4.7 ¶16295223
NEIC III 09 13 51 27.0–3.1 20.08S 174.23W 7–19 5.2b,4.7
ISCJB III 09 13 51 29.1–.24 20.08S–.04 174.30W–.05 31 5.0b,4.1s
BJI III 09 13 51 36.5 20.88S 173.68W 132 5.4b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=12.3km az=150.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.7km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.6km az=28.3.
ISC III 09 21 21 04.3–.77 16.1S–.20 174.9W–.20 278 3.9b 11 4-87
IDC III 09 21 21 03.0–1.2 16.11S 174.93W 261–13 4.4,4.0 ¶17193581
ISCJB III 09 21 21 03.1–.62 16.1S–.20 174.9W–.20 278 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 10 13 40 42.1–1.1 19.2S–.20 173.7W–.20 35 4.2b 17 6-149
IDC III 10 13 40 36.8–.97 19.24S 173.67W 0 4.4,4.2 ¶16337994
ISCJB III 10 13 40 40.3–.87 19.1S–.20 173.8W–.20 35 4.1b,3.1s
NEIC III 10 13 40 42.2–.94 19.29S 173.74W 35 4.1b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=36.2km s-min=17.4km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=29.0km s-min=11.9km az=43.4.
NEIC Event type se. Error ellipse: s-maj=33.0km s-min=16.6km az=139.0.
ISC III 12 01 12 45.2–1.3 15.9S–.40 173.8W–.30 35 4.1b 17 3-147
IDC III 12 01 12 39.5–1.4 16.31S 173.51W 0 4.3,4.0 ¶16442316
ISCJB III 12 01 12 43.9–1.3 15.9S–.40 173.9W–.30 35 4.2b,4.0
NEIC III 12 01 12 44.7–1.1 16.29S 173.68W 35 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=87.2km s-min=19.4km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=64.1km s-min=8.1km az=143.6.
NEIC Event type se. Error ellipse: s-maj=58.6km s-min=14.2km az=147.0.
ISC III 12 03 39 35.5–5.3 16S–1.0 173W–1.0 26 3.9b 7 2-146
IDC III 12 03 39 30.9–6.7 16.17S 173.24W 0 4.1,3.9 ¶17194243
ISC Event type ke.
IDC Error ellipse: s-maj=307.7km s-min=26.4km az=139.0.
ISC III 12 23 04 03.5–.66 15.5S–.10 173.6W–.10 10 4.2b 27 2-153
IDC III 12 23 04 02.4–2.4 15.57S 173.71W 0 4.4,4.3L ¶16476698
NEIC III 12 23 04 03.8–3.2 15.27S 173.89W 5–20 4.2b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=170.9km s-min=20.3km az=151.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.0km az=151.0.
ISC III 13 12 41 21.4–1.8 16S–1.0 174.7W–.60 100 4.1b 8 3-146
IDC III 13 12 41 21.3–3.5 16.38S 174.31W 112–27 4.2,4.1 ¶17194866
ISC Event type ke.
IDC Error ellipse: s-maj=139.6km s-min=20.0km az=146.0.
IDC III 13 14 23 10.2–4.5 15.83S 173.19W 0 3.9,3.7
¶17194890
IDC Error ellipse: s-maj=210.3km s-min=22.9km az=137.0.
IDC III 13 22 32 10.9–45 18.17S 174.36W 0 4.8,4.6
¶17195002
IDC Error ellipse: s-maj=853.6km s-min=164.7km az=81.0.
ISC III 14 03 17 00.2–.45 17.57S–.06 174.71W–.06 210–3 5.1b 268 5-174
ISCJB III 14 03 16 54.8–1.0 17.55S–.04 174.77W–.04 171–10 5.1b ¶16461679
BJI III 14 03 16 55.0 17.69S 174.06W 199 5.6b,5.1b
IDC III 14 03 16 59.9–.60 17.52S 174.86W 203–5 5.1,4.7
GCMT III 14 03 16 59.5–.20 17.42S 174.56W 206–1 5.3W,4.7
NEIC III 14 03 16 59.5–.21 17.58S 174.85W 203 5.2b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.0km az=44.1.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=137.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c84; s107,c167; Duration: 1⁢1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.76±.02 $M_{\theta\theta}$0.47±.03; $M_{\phi\phi}$0.29±.03; $M_{r\theta}$0.09±.02; $M_{\theta\phi}$-0.52±.02; $M_{\phi r}$-0.72±.02; Best double couple: NP1:ϕ_s335.00000°,δ66.00000° ,λ-66.00000°. NP2:ϕ_s107.00000°,δ33.00000°,λ-133.00000°. Principal axes: T 1.0790,Plg18.0000°,Azm48.0000°; N 0.0640,Plg22.0000°,Azm145.0000° ; P -1.1430,Plg61.0000°,Azm282.0000° $M_0$1.11100×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=111.0.
IDC III 14 20 19 50.7–2.3 15.42S 173.30W 0 4.2L,3.9
¶17195251
IDC Error ellipse: s-maj=152.4km s-min=22.2km az=149.0.
IDC III 15 00 34 28.1–4.8 19.11S 175.65W 0 4.4,4.2
¶17195963
IDC Error ellipse: s-maj=244.3km s-min=40.5km az=150.0.
IDC III 15 06 19 02.5–47 16.48S 175.11W 0 4.4,4.2
¶17196051
IDC Error ellipse: s-maj=894.4km s-min=173.7km az=79.0.
IDC III 15 08 44 33.6–50 17.61S 173.31W 0 3.9,3.7
¶17196092
IDC Error ellipse: s-maj=962.2km s-min=189.0km az=81.0.
IDC III 15 16 15 28.6–7.6 19.42S 175.25W 118–67 3.9,3.8
¶17196179
IDC Error ellipse: s-maj=31.8km s-min=15.6km az=111.0.
ISC III 16 21 37 09.5–.94 20.7S–.30 173.8W–.20 27 4.0b 10 19-150
IDC III 16 21 37 05.3–1.0 20.62S 173.85W 0 4.4,4.2L ¶17196544
ISCJB III 16 21 37 07.6–.80 20.8S–.20 173.8W–.20 27 4.1b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 01 18 16.2–5.5 19.19S 174.51W 0 3.8,3.5
¶17196592
IDC Error ellipse: s-maj=406.8km s-min=36.8km az=154.0.
IDC III 17 04 12 40.0–2.2 17.66S 175.27W 268–24 3.9,3.4
¶17196612
IDC Error ellipse: s-maj=27.8km s-min=19.4km az=118.0.
IDC III 17 10 24 47.2–6.9 18.30S 173.91W 175–182 4.4,4.0
¶17196683
IDC Error ellipse: s-maj=205.7km s-min=30.6km az=82.0.
IDC III 17 20 37 14.8–46 15.61S 175.14W 0 4.1,3.9
¶17196802
IDC Error ellipse: s-maj=878.2km s-min=172.7km az=78.0.
IDC III 17 22 09 49.4–52 16.15S 175.67W 0 4.0,3.9
¶17196828
IDC Error ellipse: s-maj=975.3km s-min=178.4km az=78.0.
IDC III 18 03 31 57.7–7.5 18.71S 173.49W 0 4.2,3.9
¶17196927
IDC Error ellipse: s-maj=324.7km s-min=38.0km az=142.0.
ISC III 18 19 59 49.5–1.7 15.1S–.60 173.7W–.40 30 4.2b 17 2-146
IDC III 18 19 59 45.0–1.9 15.12S 173.59W 0 4.6L,4.4 ¶16479255
NEIC III 18 19 59 46.5–.82 15.11S 173.58W 10 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=107.9km s-min=19.6km az=151.0.
NEIC Event type se. Error ellipse: s-maj=45.4km s-min=10.3km az=152.0.
ISC III 18 20 36 27.7–.51 17.9S–.10 174.83W–.10 100 4.6b 45 5-157
ISCJB III 18 20 36 26.1–.39 17.91S–.07 174.83W–.09 100 4.6b ¶16479260
IDC III 18 20 36 28.8–1.9 17.92S 174.72W 115–17 4.3,4.1
NEIC III 18 20 36 31.0–1.3 17.93S 174.82W 135–12 5.0b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=6.3km az=37.3.
IDC Error ellipse: s-maj=24.8km s-min=11.2km az=130.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.7km az=133.0.
IDC III 19 11 35 39.1–48 17.40S 174.83W 0 4.2,4.0
¶17197210
IDC Error ellipse: s-maj=914.0km s-min=173.6km az=80.0.
ISC III 19 15 02 02.9–.86 19.7S–.20 175.9W–.20 222 3.7b 19 7-150
IDC III 19 15 02 00.1–2.6 19.86S 176.13W 190–24 4.1,3.8 ¶17197263
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=14.6km az=139.0.
ISC III 20 11 47 38.7–.36 18.86S–.05 174.83W–.05 99–2 5.3b 1399 6-176
ISCJB III 20 11 47 35.5–1.1 18.76S–.03 174.87W–.02 77–10 5.3b ¶16339585
IDC III 20 11 47 41.2–3.5 18.81S 174.83W 117–30 5.4,5.1
BJI III 20 11 47 42.1 18.67S 174.30W 146 5.3b,5.3b
MOS III 20 11 47 42.9–.70 18.75S 174.95W 143 5.1b,5.3b
NEIC III 20 11 47 44.2–.80 18.88S 174.87W 146–7 5.2b,5.3b
GCMT III 20 11 47 44.2–.20 18.84S 174.45W 139–2 5.3W,5.3b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=156.4.
IDC Error ellipse: s-maj=11.0km s-min=10.5km az=179.0.
MOS Error ellipse: s-maj=9.7km s-min=7.7km az=135.4.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=150.0. Felt at Neiafu.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c60; s105,c161; Duration: 1⁢1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.83±.02 $M_{\theta\theta}$0.60±.03; $M_{\phi\phi}$0.22±.03; $M_{r\theta}$0.02±.02; $M_{\theta\phi}$0.53±.03; $M_{\phi r}$-0.53±.02; Best double couple: NP1:ϕ_s31.00000°,δ59.00000° ,λ-119.00000°. NP2:ϕ_s258.00000°,δ41.00000°,λ-51.00000°. Principal axes: T 1.0270,Plg10.0000°,Azm141.0000°; N 0.0480,Plg24.0000°,Azm47.0000° ; P -1.0760,Plg64.0000°,Azm251.0000° $M_0$1.05100×10^{17}
IDC III 20 15 43 02.6–6.1 20.06S 175.44W 0 4.1,3.9
¶17197484
IDC Error ellipse: s-maj=256.9km s-min=34.1km az=145.0.
IDC III 21 12 52 07.8–5.5 16.34S 173.63W 0 4.0,3.7
¶17197675
IDC Error ellipse: s-maj=262.7km s-min=24.2km az=141.0.
ISC III 22 15 33 38.5–.58 18.83S–.10 174.5W–.10 100 4.1b 29 6-149
IDC III 22 15 33 38.8–3.1 18.76S 174.74W 94–27 4.6,4.5s ¶16449020
NEIC III 22 15 33 38.1–.96 18.62S 174.97W 83–8 4.5b,4.5s
ISC Event type fe.
IDC Error ellipse: s-maj=34.5km s-min=15.6km az=130.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=9.3km az=153.0. Felt at Neiafu.
IDC III 23 12 07 27.1–8.2 16.65S 175.92W 0 4.0s,4.0
¶17198191
IDC Error ellipse: s-maj=360.5km s-min=37.4km az=141.0.
IDC III 24 14 47 06.1–4.7 16.04S 175.96W 0 4.2,4.0
¶17198377
IDC Error ellipse: s-maj=171.0km s-min=94.3km az=156.0.
IDC III 25 13 02 19.3–4.9 16.37S 175.24W 0 4.4,4.2
¶17198503
IDC Error ellipse: s-maj=193.2km s-min=98.9km az=157.0.
IDC III 26 18 05 37.5–51 18.26S 173.68W 0 4.3,4.1
¶17198667
IDC Error ellipse: s-maj=981.2km s-min=183.9km az=82.0.
IDC III 27 13 49 00.9–45 16.52S 175.99W 0 4.4,4.2b
¶17198794
IDC Error ellipse: s-maj=843.8km s-min=159.6km az=78.0.
ISC III 27 18 04 33.6–.56 20.11S–.09 173.92W–.08 31 4.3b,3.6s 43 6-172
IDC III 27 18 04 28.6–.62 20.30S 173.90W 0 4.5,4.3 ¶16399146
ISCJB III 27 18 04 31.8–.49 20.26S–.09 174.04W–.07 31 4.2b,3.7s
NEIC III 27 18 04 33.4–.50 20.18S 173.89W 35 4.6b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=15.1km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=8.8km az=173.9.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=9.6km az=140.0.
ISC III 28 03 04 40.5–1.3 20.1S–.40 173.8W–.20 31 3.8b 13 13-149
IDC III 28 03 04 35.5–1.3 20.13S 173.80W 0 4.1,3.8 ¶16399147
ISCJB III 28 03 04 39.1–1.2 20.1S–.30 173.9W–.20 31 3.8b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 14 13 13.3–.49 20.23S–.09 173.80W–.08 28–3 4.8b,4.3s 249 7-172
IDC III 28 14 13 08.9–.48 20.18S 173.81W 0 4.7,4.7L ¶16374434
MOS III 28 14 13 12.8–.80 20.12S 173.91W 33 5.1b,4.7L
ISCJB III 28 14 13 12.8–.22 20.28S–.06 173.86W–.05 37 4.8b,4.2s
NEIC III 28 14 13 14.3–.16 20.25S 173.83W 38 4.8b,4.2s
BJI III 28 14 13 14.2 20.10S 173.73W 40 5.4b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=13.2km az=131.0.
MOS Error ellipse: s-maj=12.0km s-min=9.8km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.2km az=150.2.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=3.8km az=149.0.
ISC III 28 15 17 22.2–1.2 15.3S–.20 173.7W–.20 30 4.3b 9 2-146
IDC III 28 15 17 17.1–3.7 15.28S 173.53W 0 4.2L,4.1 ¶16475424
NEIC III 28 15 17 18.9–.71 14.84S 173.71W 10 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=254.0km s-min=21.2km az=150.0.
NEIC Event type se. Error ellipse: s-maj=24.4km s-min=13.2km az=147.0.
IDC III 29 07 40 55.3–16 17.48S 174.25W 0 4.7s,4.7
¶17199045
IDC Error ellipse: s-maj=317.9km s-min=153.6km az=79.0.
IDC III 29 18 40 23.0–4.8 20.01S 174.47W 0 3.9,3.7
¶17199095
IDC Error ellipse: s-maj=190.9km s-min=94.3km az=155.0.
ISC III 30 05 05 50.7–.80 18.5S–.10 173.7W–.20 10 4.1b 17 5-149
ISCJB III 30 05 05 49.7–.74 18.4S–.20 173.9W–.20 10 4.1b,3.3s ¶17199162
IDC III 30 05 05 49.5–.76 18.59S 173.75W 0 4.3,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.0km s-min=12.4km az=41.0.
IDC Error ellipse: s-maj=38.1km s-min=16.2km az=131.0.
IDC III 31 06 58 11.8–27 21.12S 174.09W 0 4.5,4.3

¶17199267
IDC Error ellipse: s-maj=491.0km s-min=153.7km az=75.0.
ISC III 31 12 48 18.9–.63 16.6S–.10 173.4W–.10 10 4.4b,3.5s 36 3-147
IDC III 31 12 48 17.4–.67 16.73S 173.52W 0 4.5,4.4 ¶16413013
ISCJB III 31 12 48 17.5–.54 16.7S–.10 173.5W–.10 10 4.2b,3.6s
NEIC III 31 12 48 18.8–.41 16.70S 173.49W 10 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=28.6km s-min=15.2km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=10.0km az=137.6.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=8.4km az=136.0.
ISC III 31 14 28 57.6–1.0 18.1S–.20 174.7W–.30 132 4.2b 7 5-85
IDC III 31 14 28 56.7–2.9 18.18S 174.69W 121–29 4.3,4.0 ¶17199302
ISCJB III 31 14 28 56.5–.86 18.1S–.20 174.8W–.20 132 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 16 54 21.9–3.7 19.35S 175.89W 0 4.5,4.2
¶17199320
IDC Error ellipse: s-maj=241.7km s-min=76.3km az=163.0.
IDC III 31 19 33 27.1–51 17.50S 175.76W 0 4.3,4.1
¶17199340
IDC Error ellipse: s-maj=955.4km s-min=160.7km az=80.0.
ISC IV 01 01 11 23.4–.56 16.7S–.10 174.1W–.10 111 4.2b 41 4-175
ISCJB IV 01 01 11 22.2–.50 16.7S–.10 174.3W–.10 111 4.1b ¶16509610
IDC IV 01 01 11 22.5–2.8 16.71S 174.21W 99–25 4.1,4.0
NEIC IV 01 01 11 24.9–5.1 16.75S 174.22W 123–45 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.7km s-min=10.2km az=42.1.
IDC Error ellipse: s-maj=28.4km s-min=13.9km az=131.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=11.6km az=125.0.
IDC IV 01 01 49 34.9–5.9 15.21S 173.08W 0 4.4,4.1b
¶17199375
IDC Error ellipse: s-maj=287.2km s-min=19.6km az=142.0.
ISC IV 01 23 57 23.0–.35 17.22S–.08 174.47W–.07 172 4.5b 246 4-156
ISCJB IV 01 23 57 21.6–.17 17.20S–.04 174.51W–.05 172 4.5b ¶16403557
IDC IV 01 23 57 23.3–3.2 17.11S 174.42W 170–29 4.6,4.3
BJI IV 01 23 57 24.8 17.15S 174.46W 196 5.4b,4.8b
NEIC IV 01 23 57 25.6–.86 17.19S 174.49W 196–8 4.5b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.3km az=38.3.
IDC Error ellipse: s-maj=18.4km s-min=10.3km az=146.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.7km az=149.0.
ISC IV 04 10 55 38.6–.78 15.6S–.30 175.0W–.20 262 3.8b 18 4-176
ISCJB IV 04 10 55 37.8–.84 15.4S–.30 175.2W–.10 262 3.7b ¶17199761
IDC IV 04 10 55 38.6–1.2 15.56S 175.00W 261–12 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.0km s-min=10.1km az=156.9.
IDC Error ellipse: s-maj=38.6km s-min=12.3km az=149.0.
ISC IV 04 14 22 01.9–.61 15.7S–.10 173.9W–.10 94 4.5b 32 3-146
ISCJB IV 04 14 22 00.2–.50 15.7S–.10 173.86W–.09 94 4.4b ¶16506198
IDC IV 04 14 22 02.2–2.4 15.74S 173.92W 95–22 4.2,4.1
NEIC IV 04 14 22 02.8–.83 15.69S 173.91W 101–7 4.8b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=7.0km az=142.8.
IDC Error ellipse: s-maj=28.4km s-min=14.1km az=134.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=6.4km az=143.0.
ISC IV 04 16 55 35.1–.78 19.1S–.20 173.3W–.20 28 4.9b,3.9s 67 5-153
IDC IV 04 16 55 30.7–1.0 18.97S 173.41W 0 4.4,4.2 ¶16409319
ISCJB IV 04 16 55 32.7–.64 19.2S–.10 173.3W–.10 28 4.7b,4.0s
NEIC IV 04 16 55 33.9–.51 19.53S 172.97W 35 5.0b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=42.3km s-min=18.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=24.3km s-min=9.6km az=141.7.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=8.9km az=161.0.
ISC IV 05 01 05 56.3–.74 15.5S–.20 173.9W–.20 94 3.8b 14 3-175
IDC IV 05 01 05 51.3–3.0 15.54S 173.84W 46–27 4.4L,4.2 ¶17199828
ISCJB IV 05 01 05 55.0–.73 15.5S–.20 174.0W–.20 94 3.9b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 18 57 49.4–.34 19.83S–.09 173.55W–.07 25 4.9b,3.9s 221 6-172
IDC IV 05 18 57 44.8–.65 20.04S 173.44W 0 4.6,4.4 ¶16410388
ISCJB IV 05 18 57 47.9–.22 19.81S–.06 173.64W–.05 25 4.9b,3.8s
NEIC IV 05 18 57 50.8–.20 19.79S 173.60W 35 5.1b,3.8s
BJI IV 05 18 57 53.6 19.67S 173.93W 49 5.3b,5.1s
MOS IV 05 18 57 56.8–2.3 18.74S 174.79W 33 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=15.9km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.4km az=145.4.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.5km az=139.0.
MOS Error ellipse: s-maj=15.9km s-min=12.3km az=19.8.
IDC IV 06 08 13 39.0–2.5 15.77S 174.57W 0 4.2,3.8
¶16462807
IDC Error ellipse: s-maj=190.9km s-min=23.1km az=152.0.
ISC IV 07 03 12 09.0–.62 15.1S–.20 173.5W–.20 30 4.3b,3.8s 23 2-148
IDC IV 07 03 12 04.5–.65 15.09S 173.41W 0 4.5,4.2b ¶16509622
NEIC IV 07 03 12 05.7–.44 15.06S 173.33W 10 4.4b,4.2b
ISCJB IV 07 03 12 07.3–.51 15.1S–.10 173.5W–.10 30 4.3b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 07 19 01 14.8–49 16.32S 175.87W 0 4.2,4.1
¶17200151
IDC Error ellipse: s-maj=914.9km s-min=165.1km az=78.0.
IDC IV 09 06 40 07.0–2.4 16.28S 173.32W 0 4.0,3.7
¶17200311
IDC Error ellipse: s-maj=137.7km s-min=21.8km az=146.0.
IDC IV 09 20 03 52.3–2.4 17.19S 173.28W 0 4.5L,4.0
¶17200368
IDC Error ellipse: s-maj=111.0km s-min=25.6km az=142.0.
ISC IV 10 10 33 34.1–.41 15.28S–.08 173.78W–.08 94 4.5b 59 2-146
ISCJB IV 10 10 33 32.8–.31 15.26S–.05 173.81W–.06 94 4.3b ¶16512222
IDC IV 10 10 33 32.7–1.7 15.26S 173.83W 80–16 4.2,4.1
NEIC IV 10 10 33 34.0–.97 15.34S 173.80W 94–9 4.9b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.9km az=37.7.
IDC Error ellipse: s-maj=17.8km s-min=10.7km az=117.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.5km az=126.0.
IDC IV 10 16 27 40.1–6.3 17.52S 174.52W 0 4.1,3.9
¶17200479
IDC Error ellipse: s-maj=265.0km s-min=23.6km az=139.0.
IDC IV 11 23 25 25.5–8.0 15.84S 173.01W 0 4.5L,4.0
¶17200703
IDC Error ellipse: s-maj=349.1km s-min=24.9km az=138.0.
IDC IV 13 00 01 29.4–5.8 16.11S 173.31W 228–35 3.8,3.5
¶17200832
IDC Error ellipse: s-maj=183.1km s-min=18.9km az=149.0.
IDC IV 13 05 41 50.5–2.6 16.28S 173.28W 49–30 4.0,4.0
¶17200864
IDC Error ellipse: s-maj=48.4km s-min=18.1km az=134.0.
ISC IV 13 15 27 56.2–.65 17.5S–.10 173.7W–.20 39 4.2b 21 4-174
IDC IV 13 15 27 50.9–.74 17.62S 173.76W 0 4.2,4.0 ¶16529591
ISCJB IV 13 15 27 54.7–.61 17.6S–.10 173.8W–.10 39 4.1b,4.0
NEIC IV 13 15 27 55.8–8.0 17.67S 173.73W 33–54 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=16.3km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=11.0km az=39.6.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=16.3km az=71.0.
IDC IV 14 09 35 54.3–8.2 17.78S 175.97W 0 3.6,3.4
¶17201002
IDC Error ellipse: s-maj=361.0km s-min=37.2km az=142.0.
ISC IV 15 02 06 28.7–.47 15.25S–.04 173.12W–.04 17–2 5.7b,5.7s 1715 2-175
IDC IV 15 02 06 25.8–.32 15.31S 173.17W 0 5.5s,5.5 ¶16505384
BJI IV 15 02 06 25.9 15.26S 173.13W 7 5.9b,5.6s
ISCJB IV 15 02 06 25.8–.09 15.27S–.02 173.21W–.02 10 5.6s,5.6b
GCMT IV 15 02 06 26.8–.10 15.07S 172.97W 30–0 5.8W,5.6b
NEIC IV 15 02 06 27.0–.00 14.77S 173.24W 15 5.8W,5.6b
NEIC IV 15 02 06 28.4–.09 15.28S 173.24W 17 5.8W,5.8W
MOS IV 15 02 06 30.5–.89 15.05S 173.12W 33 5.8b,5.7s
ISC Event type fe.
IDC Error ellipse: s-maj=13.2km s-min=9.4km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=142.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tension Solution. s122,c248; s135,c383;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.28±.05 $M_{\theta\theta}$4.35±.05; $M_{\phi\phi}$-4.63±.05; $M_{r\theta}$-4.46±.13; $M_{\theta\phi}$3.02±.04; $M_{\theta r}$1.09±.09; Best double couple: NP1: ϕ_s298.00000°,δ86.00000°,λ39.00000°. NP2:ϕ_s205.00000°,δ51.00000°,λ174.00000°. Principal axes: T 7.5470,Plg30.0000°,Azm169.0000°; N -0.9990,Plg51.0000°,Azm304.0000° ; P -6.5480,Plg23.0000°,Azm65.0000° $M_0$7.04800×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$3.10 $M_{\phi\phi}$-3.60 $M_{r\theta}$-2.40 $M_{\theta\phi}$3.50 $M_{\theta r}$3.50 Best double couple: NP1:ϕ_s112.00000° ,δ82.00000°,λ-32.00000°. NP2:ϕ_s207.00000°,δ57.00000°,λ-171.00000°. Principal axes: T 4.8000,Plg16.0000°,Azm164.0000°; N 2.5000,Plg56.0000°,Azm280.0000° ; P -7.4000,Plg28.0000°,Azm64.0000° $M_0$6.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=135.0. Felt at Neiafu. Felt [III] at Apia, Samoa. Also felt at Faleolo. Felt at Alao, Fagatogo, Malaeimi, Mapusagafou, Nu'uuli and Pago Pago, American Samoa. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.77 $M_{\theta\theta}$2.68 $M_{\phi\phi}$-1.90 $M_{r\theta}$-4.36 $M_{\theta\phi}$3.57 $M_{\theta r}$2.65 Best double couple: NP1:ϕ_s203.00000°,δ42.00000°,λ-172.00000°. NP2:ϕ_s107.00000° ,δ84.00000°,λ-49.00000°. Principal axes: T 5.9900,Plg27.0000°,Azm165.0000° ; N 1.2000,Plg41.0000°,Azm282.0000°; P -7.1900,Plg37.0000°,Azm52.0000° $M_0$6.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s231.00000°,δ11.00000°,λ-153.00000°. NP2:ϕ_s115.00000°,δ85.00000°,λ-80.00000°. Principal axes: T Plg39.0000°,Azm196.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm36.0000°
MOS Error ellipse: s-maj=9.0km s-min=6.3km az=75.3.
IDC IV 15 08 32 26.1–2.8 17.40S 173.34W 0 3.9,3.6
¶17201111
IDC Error ellipse: s-maj=330.5km s-min=30.3km az=158.0.
ISC IV 15 21 46 22.3–.23 18.69S–.04 175.28W–.03 213–1 5.7b 2110 5-176
MOS IV 15 21 46 14.1–.83 18.50S 175.39W 142 5.8b ¶602546136
ISCJB IV 15 21 46 21.1–.07 18.70S–.02 175.39W–.02 212 5.7b
NEIC IV 15 21 46 22.7–.30 18.69S 175.36W 216–2 5.7W,5.7W
IDC IV 15 21 46 22.4–.35 18.75S 175.36W 211–3 5.9,5.4
GCMT IV 15 21 46 22.7–.10 18.65S 174.93W 219–0 5.7W,5.4
BJI IV 15 21 46 22.0 18.27S 175.02W 215 5.9b,5.7b
NEIC IV 15 21 46 23.0–.00 18.60S 175.29W 216 5.9b,5.7b
ISC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=5.6km az=72.2.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=1.8km az=136.9.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=137.0. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.07 $M_{\theta\theta}$3.10 $M_{\phi\phi}$-0.03 $M_{r\theta}$-1.77 $M_{\theta\phi}$2.34 $M_{\theta r}$-2.71 Best double couple: NP1:ϕ_s40.00000°,δ67.00000°,λ-113.00000°. NP2:ϕ_s268.00000° ,δ32.00000°,λ-47.00000°. Principal axes: T 5.3500,Plg19.0000°,Azm147.0000° ; N -0.6800,Plg21.0000°,Azm50.0000°; P -4.6800,Plg61.0000°,Azm276.0000° $M_0$5.00000×10^{17}
IDC Error ellipse: s-maj=8.9km s-min=6.0km az=142.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c228; s136,c363;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.18±.04 $M_{\theta\theta}$2.61±.04; $M_{\phi\phi}$-0.43±.04; $M_{r\theta}$-1.13±.04; $M_{\theta\phi}$2.10±.04; $M_{\theta r}$-3.22±.03; Best double couple: NP1: ϕ_s31.00000°,δ73.00000°,λ-121.00000°. NP2:ϕ_s276.00000°,δ35.00000°,λ-30.00000°. Principal axes: T 4.7010,Plg22.0000°,Azm144.0000°; N -0.0380,Plg30.0000°,Azm41.0000° ; P -4.6650,Plg51.0000°,Azm265.0000° $M_0$4.68300×10^{17}
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.00 $M_{\theta\theta}$2.60 $M_{\phi\phi}$-0.60 $M_{r\theta}$-1.00 $M_{\theta\phi}$1.70 $M_{\theta r}$-2.80 Best double couple: NP1:ϕ_s34.00000° ,δ72.00000°,λ-122.00000°. NP2:ϕ_s278.00000°,δ36.00000°,λ-31.00000°. Principal axes: T 4.1000,Plg20.0000°,Azm148.0000°; N 0.1000,Plg30.0000°,Azm45.0000° ; P -4.1000,Plg51.0000°,Azm267.0000° $M_0$4.00000×10^{17}
IDC IV 16 16 48 57.0–2.5 17.00S 175.47W 264–34 4.1,3.6
¶17201245
IDC Error ellipse: s-maj=36.7km s-min=23.0km az=115.0.
IDC IV 18 20 23 47.4–26 20.73S 173.43W 0 4.3,4.2
¶17201444
IDC Error ellipse: s-maj=488.0km s-min=146.4km az=76.0.
IDC IV 19 22 04 51.1–26 20.81S 173.20W 0 4.5,4.4
¶17201549
IDC Error ellipse: s-maj=485.4km s-min=153.7km az=75.0.
ISC IV 20 03 09 11.4–.28 20.91S–.06 175.41W–.06 89 4.8b 465 5-172
MOS IV 20 03 09 06.1–.89 20.67S 175.62W 49 5.0b ¶16448737
IDC IV 20 03 09 10.2–1.5 20.72S 175.55W 75–12 4.8,4.7
ISCJB IV 20 03 09 10.4–.13 20.87S–.03 175.60W–.03 89 4.8b,4.7
BJI IV 20 03 09 12.2 20.62S 175.16W 107 5.2b,5.0b
GCMT IV 20 03 09 13.4–.20 20.88S 175.09W 104–2 5.2W,5.0b
NEIC IV 20 03 09 13.4–.96 20.84S 175.62W 105–8 4.8b,5.0b
ISC Event type fe.
MOS Error ellipse: s-maj=9.8km s-min=7.1km az=55.0.
IDC Error ellipse: s-maj=13.9km s-min=10.3km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.1km az=43.6.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c72; s93,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.14±.15 $M_{\theta\theta}$0.48±.19; $M_{\phi\phi}$-0.34±.18; $M_{r\theta}$-1.21±.12; $M_{\theta\phi}$5.18±.15; $M_{\theta r}$-3.94±.09; Best double couple: NP1:ϕ_s183.00000°,δ87.00000° ,λ143.00000°. NP2:ϕ_s275.00000°,δ53.00000°,λ3.00000°. Principal axes: T 7.1070,Plg27.0000°,Azm132.0000°; N -1.0770,Plg53.0000°,Azm360.0000° ; P -6.0290,Plg23.0000°,Azm235.0000° $M_0$6.56800×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=150.0. Felt at Nuku'alofa and Vaini.
ISC IV 20 07 57 31.8–.63 20.5S–.10 174.4W–.20 56 4.2b,3.9s 28 7-172
IDC IV 20 07 57 24.3–.66 20.40S 174.44W 0 4.4L,4.3 ¶16485026
ISCJB IV 20 07 57 29.9–.49 20.59S–.09 174.3W–.10 56 4.3b,3.9s
NEIC IV 20 07 57 29.4–.41 20.48S 174.02W 35 4.4b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=17.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=11.4km az=33.6.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=11.3km az=117.0.
ISC IV 21 02 25 35.8–1.5 16.9S–.40 175.6W–.30 200 3.8b 10 5-147
ISCJB IV 21 02 25 34.9–1.5 16.8S–.40 175.7W–.30 200 3.7b ¶17201662
IDC IV 21 02 25 37.3–1.8 16.67S 175.57W 221–30 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=70.2km s-min=10.1km az=147.6.
IDC Error ellipse: s-maj=142.9km s-min=17.1km az=141.0.
IDC IV 21 07 02 27.2–27 15.06S 174.84W 0 4.6,4.5
¶17201686
IDC Error ellipse: s-maj=497.8km s-min=161.2km az=69.0.
IDC IV 21 20 05 01.5–28 20.26S 175.45W 0 3.8,3.6
¶17201736
IDC Error ellipse: s-maj=517.5km s-min=154.6km az=75.0.
ISC IV 21 20 05 41.7–1.8 15.8S–.70 174.3W–.50 35 3.8b 9 3-146
ISCJB IV 21 20 05 39.8–1.7 15.8S–.70 174.3W–.50 33 3.9b ¶17201737
IDC IV 21 20 05 46.6–3.3 15.73S 174.36W 75–33 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=115.4km s-min=10.1km az=147.6.
IDC Error ellipse: s-maj=112.7km s-min=20.7km az=144.0.
IDC IV 21 20 26 35.2–27 19.60S 174.39W 0 4.1,4.0
¶17201738
IDC Error ellipse: s-maj=493.6km s-min=157.1km az=74.0.
IDC IV 21 22 30 49.1–3.6 15.57S 173.45W 0 4.0,3.7
¶17201753
IDC Error ellipse: s-maj=178.0km s-min=33.4km az=145.0.
ISC IV 22 11 53 56.4–.69 20.2S–.10 175.6W–.10 150 3.7b 17 7-148
IDC IV 22 11 53 56.6–2.9 20.21S 175.86W 147–27 4.0,3.8 ¶17201810
ISC Event type ke.

IDC Error ellipse: s-maj=35.8km s-min=14.9km az=139.0.
IDC IV 22 12 27 29.0–49 16.60S 175.59W 0 4.2,4.0
¶17201812

IDC Error ellipse: s-maj=919.6km s-min=163.2km az=79.0.
ISC IV 22 21 19 58.9–1.6 18.2S–.30 173.3W–.30 37 4.2b 16 38-94
IDC IV 22 21 19 53.3–24 18.24S 173.28W 0 4.2,4.1 **¶16532317**
ISCJB IV 22 21 19 57.5–1.2 18.2S–.30 173.4W–.20 37 4.3b,4.1
NEIC IV 22 21 19 58.7–.74 18.23S 173.32W 35 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=453.1km s-min=150.1km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=47.5km s-min=15.6km az=147.5.
NEIC Event type se. Error ellipse: s-maj=30.2km s-min=9.7km az=147.0.
ISC IV 24 01 26 47.4–.93 15.1S–.30 173.4W–.20 30 4.0b,3.5s 9 2-146
IDC IV 24 01 26 43.8–1.1 15.17S 173.58W 0 4.3,4.1 **¶17201921**
ISCJB IV 24 01 26 45.4–.79 15.0S–.20 173.5W–.20 30 4.0b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 24 06 01 09.3–.32 15.32S–.08 175.67W–.07 35 5.0b,4.7s 681 4-155
IDC IV 24 06 01 03.9–.55 15.31S 175.76W 0 4.7,4.6 **¶16452997**
ISCJB IV 24 06 01 07.9–.19 15.42S–.06 175.72W–.04 33 4.9b,4.6s
NEIC IV 24 06 01 09.6–.16 15.33S 175.80W 35 5.0b,4.6s
MOS IV 24 06 01 13.8–1.1 15.28S 175.69W 78 5.2b,4.6s
BJI IV 24 06 01 15.4 15.86S 175.54W 105 5.0b,4.8b
GCMT IV 24 06 01 17.2–.20 15.20S 175.58W 17–1 5.2W,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=14.3km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=157.6.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=3.9km az=148.0.
MOS Error ellipse: s-maj=13.5km s-min=8.5km az=52.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c87; s112,c194; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.50±.18 $M_{\theta\theta}$-3.87±.18; $M_{\phi\phi}$3.37±.16; $M_{r\theta}$-1.58±.40; $M_{\theta\phi}$7.84±.16; $M_{\phi r}$0.97±.38; Best double couple: NP1:ϕ_s77.00000°,δ83.00000°,λ-8.00000°. NP2:ϕ_s168.00000°,δ82.00000°,λ-173.00000°. Principal axes: T 8.3860,Plg0.0000°,Azm123.0000°; N 0.8520,Plg79.0000°,Azm214.0000°; P -9.2380,Plg11.0000°,Azm33.0000° $M_0$8.81200×10^{16}
IDC IV 24 06 07 41.8–27 20.95S 173.18W 0 4.2,4.0
¶17201931

IDC Error ellipse: s-maj=507.4km s-min=160.2km az=75.0.
IDC IV 25 08 46 09.5–17 18.19S 174.89W 0 4.4,4.3
¶17202032

IDC Error ellipse: s-maj=318.5km s-min=89.8km az=77.0.
IDC IV 25 14 55 16.0–2.6 16.78S 175.56W 238–45 3.8,3.4
¶17202054

IDC Error ellipse: s-maj=155.5km s-min=26.6km az=139.0.
ISC IV 26 00 12 21.8–.48 17.67S–.10 174.24W–.09 100 5.2b 74 4-174
IDC IV 26 00 12 07.7–.70 17.34S 174.22W 0 4.5,4.3 **¶16459952**
BJI IV 26 00 12 16.7 17.40S 174.40W 63 5.4s,5.2b
NEIC IV 26 00 12 16.1–1.4 17.42S 174.35W 62–13 5.3b,5.2b
ISCJB IV 26 00 12 18.8–.35 17.52S–.06 174.37W–.07 100 5.0b,5.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 26 16 45 36.9–.65 15.5S–.20 173.1W–.20 29 4.5b,3.5s 47 2-146
IDC IV 26 16 45 32.5–.60 15.45S 173.17W 0 4.9L,4.5 **¶16460955**
ISCJB IV 26 16 45 37.2–.39 15.58S–.10 172.7W–.10 33 4.5b,3.4s
NEIC IV 26 16 45 38.4–.31 15.50S 172.95W 35 4.6b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=31.8km s-min=14.1km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=19.3km s-min=7.9km az=41.0.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=7.7km az=134.0.
IDC IV 27 01 50 38.6–3.1 18.15S 174.38W 0 4.3,4.1
¶17202202

IDC Error ellipse: s-maj=139.7km s-min=23.0km az=137.0.
ISC IV 27 14 34 01.6–.52 15.7S–.10 174.7W–.10 10 4.6b,4.1s 76 3-149
IDC IV 27 14 33 59.1–.70 15.71S 174.76W 0 4.5,4.3 **¶16463991**
ISCJB IV 27 14 34 00.1–.31 15.70S–.09 174.81W–.09 10 4.5b,4.0s
NEIC IV 27 14 34 03.5–1.2 15.56S 174.86W 19–7 4.7b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=16.6km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=7.9km az=136.6.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=9.6km az=143.0.
ISC IV 27 21 08 14.5–.57 15.1S–.10 173.6W–.20 30 4.3b,3.8s 36 2-147
IDC IV 27 21 08 09.7–.72 15.06S 173.64W 0 5.2L,4.3 **¶16495905**
NEIC IV 27 21 08 11.1–.29 15.06S 173.64W 10 4.5b,4.3
ISCJB IV 27 21 08 12.3–.46 15.1S–.10 173.7W–.10 30 4.2b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 28 17 24 49.7–.54 17.0S–.10 174.17W–.10 124 4.4b 29 4-174
ISCJB IV 28 17 24 48.7–.44 16.83S–.09 174.33W–.08 124 4.4b **¶16495908**
IDC IV 28 17 24 50.8–2.3 16.95S 174.24W 134–21 4.4,4.2
NEIC IV 28 17 24 51.1–1.2 16.93S 174.25W 137–12 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=7.2km az=141.6.
IDC Error ellipse: s-maj=22.9km s-min=11.7km az=139.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=8.7km az=145.0.
IDC IV 29 20 49 34.5–47 15.91S 175.90W 0 3.8,3.6
¶17202414

IDC Error ellipse: s-maj=881.9km s-min=171.6km az=78.0.
IDC IV 30 07 02 57.7–2.8 16.82S 175.70W 225–44 4.1,3.8
¶17202444

IDC Error ellipse: s-maj=248.7km s-min=23.6km az=143.0.
ISC IV 30 07 44 29.3–.57 16.09S–.09 173.3W–.10 10 4.4b 28 3-147
ISCJB IV 30 07 44 28.4–.43 16.01S–.09 173.5W–.10 10 4.4b **¶16577928**
IDC IV 30 07 44 28.5–.73 15.98S 173.54W 0 4.4,4.2
NEIC IV 30 07 44 29.8–.43 16.10S 173.29W 10 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.4km s-min=7.1km az=38.9.
IDC Error ellipse: s-maj=40.5km s-min=15.2km az=135.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=9.7km az=134.0.
ISC IV 30 14 05 02.6–.95 15.8S–.20 173.8W–.20 115 4.2b 7 3-63
IDC IV 30 14 04 53.1–1.5 16.23S 174.18W 0 4.7L,4.4 **¶17202462**
ISCJB IV 30 14 05 01.0–.80 15.9S–.20 173.8W–.20 115 4.1b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 17 00 37.9–.87 21.7S–.20 174.8W–.10 53 4.9b 17 40-73
IDC IV 30 17 00 31.1–53 21.81S 174.83W 0 4.6,4.4 **¶16708416**
ISCJB IV 30 17 00 36.2–.75 21.7S–.20 174.9W–.10 53 5.0b,4.4
NEIC IV 30 17 00 36.0–.69 21.73S 174.82W 35 5.1b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=990.0km s-min=164.4km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=26.4km s-min=15.3km az=168.5.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=14.5km az=169.0.
IDC V 01 01 43 05.4–2.9 17.17S 175.63W 182–43 4.1,3.7
¶17202492

IDC Error ellipse: s-maj=144.1km s-min=28.2km az=139.0.
ISC V 01 19 30 36.6–.61 19.6S–.10 174.9W–.10 35 3.8b 17 6-150
ISCJB V 01 19 30 35.1–.60 19.7S–.10 174.9W–.10 35 3.8b,2.8s **¶17202554**
IDC V 01 19 30 36.1–7.5 19.61S 174.98W 28–52 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=11.6km az=135.4.
IDC Error ellipse: s-maj=31.1km s-min=18.1km az=133.0.
IDC V 01 21 11 55.6–6.0 19.86S 175.62W 120–50 4.2,3.9
¶17202560

IDC Error ellipse: s-maj=121.4km s-min=30.4km az=138.0.
ISC V 02 13 21 01.9–.29 15.63S–.06 174.25W–.05 36–4 5.3b,5.1s 749 3-175
IDC V 02 13 20 56.5–.43 15.58S 174.37W 0 4.9,4.9 **¶16487760**
NEIC V 02 13 20 57.2–.16 15.48S 174.34W 10 5.4b,5.2s
GCMT V 02 13 20 57.2–.10 15.21S 174.25W 15–0 5.5W,5.2s
ISCJB V 02 13 20 59.9–.13 15.49S–.04 174.41W–.03 33 5.2b,5.1s
BJI V 02 13 21 00.0 15.53S 173.96W 40 5.4b,5.3s
MOS V 02 13 21 01.0–1.9 15.39S 174.27W 33 5.5b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=11.5km az=131.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.2km az=138.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c180; s129,c240; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.31±.02 $M_{\theta\theta}$0.92±.02; $M_{\phi\phi}$-0.61±.02; $M_{r\theta}$0.16±.06; $M_{\theta\phi}$1.98±.02; $M_{\phi r}$-0.01±.06; Best double couple: NP1:ϕ_s281.00000°,δ90.00000°,λ-4.00000°. NP2:ϕ_s11.00000°,δ86.00000°,λ-180.00000°. Principal axes: T 2.2870,Plg3.0000°,Azm326.0000°; N -0.3150,Plg86.0000°,Azm96.0000°; P -1.9720,Plg3.0000°,Azm235.0000° $M_0$2.12900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.1km az=147.4.
MOS Error ellipse: s-maj=9.9km s-min=6.8km az=58.8.
IDC V 02 14 15 48.6–4.4 15.46S 173.86W 0 4.0,3.9L
¶17202613

IDC Error ellipse: s-maj=264.4km s-min=27.5km az=148.0.
IDC V 02 15 04 46.2–44 16.10S 174.22W 0 4.6,4.4
¶17202618

IDC Error ellipse: s-maj=847.1km s-min=163.6km az=79.0.
IDC V 02 16 47 57.0–25 16.67S 173.25W 0 4.0,3.9
¶17202625

IDC Error ellipse: s-maj=473.2km s-min=154.6km az=71.0.
ISC V 02 19 22 32.0–.78 15.3S–.20 174.4W–.20 35 4.3s,4.0b 17 3-146
IDC V 02 19 22 26.5–.84 15.21S 174.44W 0 4.2,4.2 **¶16495914**
ISCJB V 02 19 22 29.8–.64 15.2S–.20 174.4W–.10 33 4.2s,4.1b
NEIC V 02 19 22 29.0–.57 15.20S 174.25W 20 4.9b,4.1b
GCMT V 02 19 22 29.0–.20 15.06S 174.22W 23–1 5.0W,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=40.5km s-min=18.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=26.6km s-min=12.3km az=147.6.
NEIC Event type se. Error ellipse: s-maj=27.6km s-min=10.5km az=151.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c32; s92,c130; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.14±.14 $M_{\theta\theta}$0.21±.12; $M_{\phi\phi}$-0.06±.10; $M_{r\theta}$0.00±.16; $M_{\theta\phi}$3.26±.09; $M_{\phi r}$1.10±.16; Best double couple: NP1:ϕ_s181.00000°,δ89.00000°,λ-161.00000°. NP2:ϕ_s91.00000°,δ71.00000°,λ-1.00000°. Principal axes: T 3.4980,Plg12.0000°,Azm315.0000°; N -0.1070,Plg71.0000°,Azm185.0000°; P -3.3910,Plg14.0000°,Azm48.0000° $M_0$3.44400×10^{16}
ISC V 03 12 51 36.8–1.3 18.3S–.20 175.3W–.30 205 3.8b 10 6-149
ISCJB V 03 12 51 36.2–.98 18.3S–.20 175.4W–.20 205 3.8b **¶16708693**
IDC V 03 12 51 38.0–2.5 18.41S 175.57W 193–30 4.3,3.9
NEIC V 03 12 51 38.3–1.4 18.40S 175.54W 200–18 4.0b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=34.8km s-min=10.0km az=44.2.
IDC Error ellipse: s-maj=43.5km s-min=20.4km az=123.0.
NEIC Event type se. Error ellipse: s-maj=30.2km s-min=13.9km az=121.0.
IDC V 05 05 59 20.3–1.4 15.60S 175.25W 277–17 3.7,3.5
¶17202822

IDC Error ellipse: s-maj=98.9km s-min=14.2km az=151.0.
IDC V 05 09 44 49.6–2.2 15.65S 174.49W 181–37 4.5,4.1
¶17202835

IDC Error ellipse: s-maj=39.9km s-min=24.3km az=95.0.
IDC V 05 16 22 32.0–4.0 16.08S 173.58W 0 4.1,3.9
¶17202866

IDC Error ellipse: s-maj=196.6km s-min=27.0km az=139.0.
IDC V 06 14 06 58.9–51 16.24S 174.11W 0 3.9,3.8
¶17202928

IDC Error ellipse: s-maj=966.7km s-min=181.4km az=79.0.
IDC V 07 05 35 49.5–3.9 17.03S 174.56W 92–31 3.9,3.8
¶17202974

IDC Error ellipse: s-maj=87.3km s-min=16.0km az=148.0.
ISC V 08 00 29 25.7–.51 16.80S–.09 174.08W–.09 35 4.8b 75 4-147
IDC V 08 00 29 20.2–1.2 16.90S 174.10W 0 4.6,4.2 **¶16501785**
ISCJB V 08 00 29 23.9–.34 16.88S–.07 174.06W–.08 35 4.8b,3.9s
NEIC V 08 00 29 25.7–.24 16.85S 174.07W 35 4.8b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=61.6km s-min=19.2km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=5.9km az=43.6.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=4.9km az=132.0.
ISC V 08 01 37 12.1–1.2 16.5S–.20 173.1W–.30 32 3.8b 16 3-147
IDC V 08 01 37 07.2–1.3 16.65S 173.03W 0 4.1,3.8 **¶16577232**
NEIC V 08 01 37 09.0–.96 16.50S 173.12W 10 4.0b,3.8
ISCJB V 08 01 37 10.3–.83 16.5S–.20 173.2W–.20 32 3.8b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 09 02 34 18.7–.69 16.1S–.20 173.2W–.20 32 4.2b,3.7s 24 3-147
IDC V 09 02 34 13.8–.82 16.47S 173.21W 0 4.4,4.1b **¶16506292**
NEIC V 09 02 34 15.3–.56 16.28S 173.28W 10 4.2b,4.1b
ISCJB V 09 02 34 17.1–.60 16.2S–.10 173.4W–.20 32 4.1b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 09 07 25 13.9–.89 15.49S 173.25W 0 4.6L,4.2
¶16506295

IDC Error ellipse: s-maj=52.1km s-min=16.4km az=140.0.
ISC V 09 19 48 48.8–.61 20.9S–.10 174.2W–.10 27 4.6b 66 7-171
IDC V 09 19 48 44.6–.70 21.09S 174.24W 0 4.6,4.5L **¶16709283**
ISCJB V 09 19 48 48.1–.58 21.17S–.09 174.2W–.10 33 4.5b,4.5L
NEIC V 09 19 48 50.1–.40 21.12S 174.22W 35 4.8b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=16.2km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=11.2km az=36.3.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=10.0km az=138.0.
IDC V 10 05 31 28.2–2.0 15.36S 173.16W 0 4.0,3.7
¶17203178

IDC Error ellipse: s-maj=108.1km s-min=21.6km az=147.0.
ISC V 11 01 07 27.7–.44 15.1S–.10 173.7W–.10 33–1 4.8b,4.3s 174 2-150
IDC V 11 01 07 27.8–.66 15.13S 173.69W 51–5 4.3,4.3 **¶16503609**
ISCJB V 11 01 07 29.4–.38 14.29S–.08 173.36W–.05 33 4.7b,4.3s
MOS V 11 01 07 31.1–.99 13.83S 173.33W 33 5.0b,4.3s
NEIC V 11 01 07 33.1–.67 13.88S 173.33W 39–5 4.7b,4.3s
ISC Event type fe.
IDC Error ellipse: s-maj=24.9km s-min=14.9km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.6km az=167.5.
MOS Error ellipse: s-maj=16.0km s-min=10.4km az=45.3.
NEIC Event type fe. Error ellipse: s-maj=12.3km s-min=6.6km az=149.0. Felt at Apia, Samoa and at Fagatogo, American Samoa.
IDC V 11 05 29 11.3–3.2 16.59S 175.56W 249–21 4.1,3.8
¶17203356

IDC Error ellipse: s-maj=203.9km s-min=18.4km az=149.0.
ISC V 12 06 41 40.9–.97 17.2S–.10 174.0W–.10 10 3.8b,3.1s 10 4-148
ISCJB V 12 06 41 39.1–.82 17.4S–.10 174.0W–.10 10 4.0b,3.0s **¶16528059**
IDC V 12 06 41 39.6–1.2 17.31S 173.96W 0 4.3,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.4km s-min=14.9km az=158.0.
IDC Error ellipse: s-maj=57.5km s-min=21.7km az=150.0.
ISC V 13 19 00 22.1–.86 15.7S–.20 173.2W–.10 10 4.7b,3.6s 20 2-147
ISCJB V 13 19 00 20.1–.57 15.5S–.10 173.36W–.09 10 4.6b,3.6s **¶16528063**
IDC V 13 19 00 20.3–3.2 15.69S 173.16W 0 4.3,4.0b
NEIC V 13 19 00 22.0–.48 15.48S 173.36W 10 4.7b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=10.0km az=153.6.
IDC Error ellipse: s-maj=179.4km s-min=25.1km az=146.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=9.1km az=156.0.
IDC V 14 23 36 33.7–4.7 16.99S 174.75W 200–21 4.0,3.7
¶17203645

IDC Error ellipse: s-maj=196.7km s-min=20.2km az=143.0.
ISC V 15 17 49 35.3–.47 21.04S–.09 175.22W–.09 10 4.1b,3.2s 33 7-151
ISCJB V 15 17 49 34.1–.44 21.12S–.08 175.30W–.09 10 4.0b,3.3s **¶16528173**

NEIC V 15 17 49 35.3–.34 21.14S 175.26W 10 4.2b,3.3s
IDC V 15 17 49 36.5–4.4 21.10S 175.36W 14–26 4.4L,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=9.7km az=42.1.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.5km az=138.0.
IDC Error ellipse: s-maj=21.8km s-min=14.8km az=126.0.
IDC V 16 17 07 26.0–1.4 18.99S 173.16W 0 4.3,4.3
¶17203760

IDC Error ellipse: s-maj=38.7km s-min=26.6km az=135.0.
IDC V 17 08 16 09.9–7.2 15.77S 173.54W 120–159 4.0L,3.8
¶17203803

IDC Error ellipse: s-maj=260.4km s-min=86.4km az=116.0.
ISC V 17 09 01 51.7–.48 15.93S–.08 173.89W–.09 115 4.5b 36 3-147
ISCJB V 17 09 01 50.2–.38 15.88S–.06 173.97W–.07 115 4.3b **¶16710090**
IDC V 17 09 01 51.4–2.5 15.92S 173.99W 110–23 4.2,4.1
NEIC V 17 09 01 52.6–.87 15.91S 173.93W 125–8 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=6.2km az=44.1.
IDC Error ellipse: s-maj=27.9km s-min=13.7km az=131.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=7.2km az=140.0.
ISC V 17 10 35 27.3–.29 15.55S–.05 175.17W–.05 10 5.4s,5.2b 664 4-176
IDC V 17 10 35 24.8–.47 15.60S 175.09W 0 5.3,5.3s **¶16523292**
ISCJB V 17 10 35 25.5–.14 15.65S–.05 175.21W–.03 10 5.4s,5.1b
GCMT V 17 10 35 26.9–.10 15.51S 175.00W 12 5.7W,5.1b
NEIC V 17 10 35 27.0–.15 15.65S 175.22W 10 5.7W,5.6W
MOS V 17 10 35 29.4–1.2 15.52S 175.30W 33 5.5s,5.4b
BJI V 17 10 35 29.2 15.26S 174.97W 28 5.6s,5.4
NEIC V 17 10 35 32.8–.00 15.45S 175.24W 15 5.6s,5.4
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=11.9km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.3km az=157.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c217; s135,c374;Duration: 1$\hat{=}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.69±.03 $M_{\theta\theta}$2.71±.04; $M_{\phi\phi}$-2.02±.03; $M_{r\theta}$0.82±.09; $M_{\theta\phi}$3.33±.03; $M_{\phi r}$-0.71±.08; Best double couple: NP1: ϕ_s286.00000°,δ81.00000°,λ-15.00000°. NP2:ϕ_s19.00000°,δ75.00000°,λ-171.00000°. Principal axes: T 4.4620,Plg5.0000°,Azm333.0000°; N -0.4200,Plg72.0000°,Azm78.0000° ; P -4.0450,Plg17.0000°,Azm242.0000° $M_0$4.25400×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=3.5km az=152.0. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.72 $M_{\theta\theta}$2.48 $M_{\phi\phi}$-1.76 $M_{r\theta}$0.37 $M_{\theta\phi}$2.36 $M_{\phi r}$0.39 Best double couple: NP1:ϕ_s111.00000°,δ81.00000°,λ1.00000°. NP2:ϕ_s21.00000°,δ89.00000° ,λ171.00000°. Principal axes: T 3.5900,Plg7.0000°,Azm336.0000°; N -0.7600,Plg81.0000° ,Azm197.0000°; P -2.8300,Plg6.0000°,Azm66.0000° $M_0$3.30000×10^{17}
MOS Error ellipse: s-maj=10.0km s-min=8.0km az=53.1.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.50 $M_{\theta\theta}$2.90 $M_{\phi\phi}$-2.30 $M_{r\theta}$1.50 $M_{\theta\phi}$2.70 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s291.00000° ,δ87.00000°,λ-23.00000°. NP2:ϕ_s22.00000°,δ66.00000°,λ-177.00000°. Principal axes: T 4.3000,Plg14.0000°,Azm339.0000°; N -0.5000,Plg65.0000°,Azm104.0000° ; P -3.8000,Plg18.0000°,Azm244.0000° $M_0$4.00000×10^{17}
IDC V 17 11 56 34.9–2.1 16.02S 175.00W 0 4.0,3.7
¶17203818

IDC Error ellipse: s-maj=126.1km s-min=24.1km az=151.0.
ISC V 18 08 10 11.7–.40 15.69S–.09 175.19W–.08 35 4.9b,4.6s 137 4-176
IDC V 18 08 10 06.4–.68 15.45S 175.46W 0 4.6,4.5 **¶16525829**
ISCJB V 18 08 10 10.8–.28 15.65S–.07 175.39W–.07 35 4.8b,4.7s
NEIC V 18 08 10 12.6–.31 15.54S 175.43W 35 4.9b,4.7s
GCMT V 18 08 10 17.0–.10 15.52S 175.11W 12 5.3W,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=17.5km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=6.5km az=141.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=7.5km az=141.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s86,c130; s122,c221; Duration: 1$\hat{=}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.14±.01 $M_{\theta\theta}$0.90±.01; $M_{\phi\phi}$-0.76±.01; $M_{r\theta}$0.20±.03; $M_{\theta\phi}$0.39±.01; $M_{\phi r}$-0.29±.03; Best double couple: NP1:ϕ_s301.00000°,δ80.00000° ,λ-21.00000°. NP2:ϕ_s34.00000°,δ70.00000°,λ-169.00000°. Principal axes: T 1.0080,Plg7.0000°,Azm349.0000°; N -0.0290,Plg67.0000°,Azm96.0000° ; P -0.9800,Plg22.0000°,Azm256.0000° $M_0$0.99400×10^{17}
ISC V 19 00 41 28.3–1.1 20.0S–.30 175.9W–.20 222 3.8b 10 17-148
ISCJB V 19 00 41 27.2–.92 19.8S–.20 175.9W–.10 222 3.8b **¶17203920**
IDC V 19 00 41 38.4–10 19.72S 176.27W 303–95 4.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.6km s-min=19.4km az=2.9.
IDC Error ellipse: s-maj=36.7km s-min=28.4km az=63.0.
ISC V 19 06 23 04.4–.43 18.87S–.08 174.4W–.10 35 4.7b,3.8s 71 6-173
IDC V 19 06 22 59.0–.55 18.98S 174.39W 0 4.7L,4.5 **¶16529258**
ISCJB V 19 06 23 02.7–.28 19.01S–.07 174.54W–.08 35 4.7b,3.8s
NEIC V 19 06 23 04.1–.24 18.97S 174.47W 35 4.8b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=22.8km s-min=14.2km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=38.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=6.1km az=129.0.
IDC V 20 02 18 01.8–7.1 15.35S 174.82W 99–89 4.1L,3.7
¶17204005

IDC Error ellipse: s-maj=185.0km s-min=26.8km az=174.0.
IDC V 20 19 35 13.8–2.3 16.88S 175.48W 0 3.9,3.6
¶17204075

IDC Error ellipse: s-maj=190.8km s-min=30.3km az=157.0.
ISC V 21 03 14 04.5–.81 16.4S–.20 173.4W–.20 66 4.1b 26 3-147
IDC V 21 03 13 56.3–.81 16.26S 173.39W 0 4.3,4.1L **¶16545176**
NEIC V 21 03 14 01.4–.72 16.20S 173.37W 35 4.6b,4.1L
ISCJB V 21 03 14 03.4–.67 16.3S–.20 173.5W–.20 66 4.0b,4.1L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 22 16 03 31.1–5.5 18.90S 173.70W 0 4.2,4.0
¶17204236

IDC Error ellipse: s-maj=257.7km s-min=60.4km az=149.0.
IDC V 22 18 20 12.4–3.6 16.51S 175.52W 0 4.3,4.1
¶17204252

IDC Error ellipse: s-maj=153.2km s-min=75.2km az=157.0.
ISC V 23 05 58 25.8–.80 15.2S–.20 174.2W–.20 100 3.8b 13 3-145
ISCJB V 23 05 58 24.1–.74 15.2S–.20 174.2W–.10 100 4.0b **¶17204285**
IDC V 23 05 58 25.9–2.8 15.14S 174.26W 101–26 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.0km s-min=9.6km az=151.8.
IDC Error ellipse: s-maj=42.3km s-min=17.1km az=144.0.
ISC V 23 19 55 24.4–.53 15.2S–.10 173.3W–.10 10 4.5b,3.6s 41 2-147
ISCJB V 23 19 55 23.2–.40 15.2S–.10 173.4W–.10 10 4.4b,3.6s **¶16545182**
IDC V 23 19 55 23.4–.60 15.15S 173.49W 0 4.5,4.2b
NEIC V 23 19 55 24.7–.35 15.25S 173.33W 10 4.7b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=9.1km az=42.7.
IDC Error ellipse: s-maj=33.3km s-min=15.5km az=131.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=9.7km az=135.0.
ISC V 23 21 11 15.2–.74 16.9S–.10 173.0W–.20 41 4.1b 39 3-148
IDC V 23 21 11 09.6–1.3 16.76S 173.14W 0 4.3,4.0 **¶16710740**
ISCJB V 23 21 11 13.4–.53 16.9S–.10 173.2W–.10 41 4.2b,4.0
NEIC V 23 21 11 14.4–.46 16.89S 173.08W 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=58.2km s-min=19.3km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=22.7km s-min=8.4km az=37.7.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=9.8km az=136.0.
ISC V 24 08 53 41.8–.58 15.4S–.10 174.0W–.10 10 4.3b,4.3s 28 3-146
IDC V 24 08 53 40.4–.71 15.39S 174.52W 0 4.3,4.2 **¶16545191**
NEIC V 24 08 53 42.4–.52 15.39S 174.00W 10 4.8b,4.2
GCMT V 24 08 53 42.4–.20 15.12S 174.23W 16–1 5.0W,4.2
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=18.3km az=130.0.
NEIC Event type se. Error ellipse: s-maj=24.4km s-min=11.7km az=135.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c51; s92,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43±.10 $M_{\theta\theta}$0.58±.10; $M_{\phi\phi}$-0.15±.08; $M_{r\theta}$0.98±.27; $M_{\theta\phi}$3.54±.08; $M_{\phi r}$-0.01±.24; Best double couple: NP1:ϕ_s273.00000°,δ88.00000° ,λ-16.00000°. NP2:ϕ_s3.00000°,δ74.00000°,λ-178.00000°. Principal axes: T 3.8960,Plg10.0000°,Azm319.0000°; N -0.4020,Plg74.0000°,Azm86.0000° ; P -3.4930,Plg12.0000°,Azm227.0000° $M_0$3.69500×10^{16}
ISC V 24 16 30 26.1–.99 15.6S–.20 174.5W–.30 35 4.2s,3.8b 11 3-146
IDC V 24 16 30 20.8–.95 15.53S 174.45W 0 4.2s,4.2 **¶16545193**
ISCJB V 24 16 30 24.5–.77 15.5S–.20 174.5W–.20 33 4.2s,3.8b
GCMT V 24 16 30 24.0–.20 15.14S 174.20W 12 5.0W,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=46.3km s-min=20.8km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=35.1km s-min=16.8km az=42.3.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c40; s98,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.54±.09 $M_{\theta\theta}$0.32±.10; $M_{\phi\phi}$0.22±.08; $M_{r\theta}$-0.43±.23; $M_{\theta\phi}$3.27±.06; $M_{\phi r}$0.29±.24; Best double couple: NP1:ϕ_s90.00000°,δ83.00000° ,λ-9.00000°. NP2:ϕ_s181.00000°,δ81.00000°,λ-173.00000°. Principal axes: T 3.5430,Plg1.0000°,Azm136.0000°; N -0.4430,Plg79.0000°,Azm233.0000° ; P -3.1000,Plg11.0000°,Azm45.0000° $M_0$3.32200×10^{16}
IDC V 24 17 52 42.3–8.9 17.50S 174.67W 0 4.0,3.6
¶17204395

IDC Error ellipse: s-maj=392.1km s-min=37.4km az=141.0.
ISC V 25 09 26 47.8–.77 20.4S–.10 176.0W–.20 211 3.8b 15 8-151
IDC V 25 09 26 47.6–2.7 20.08S 176.30W 192–25 4.2,3.9 **¶17204441**
ISC Event type ke.
IDC Error ellipse: s-maj=30.1km s-min=14.1km az=139.0.
ISC V 25 11 55 27.2–.41 17.30S–.07 173.14W–.07 35 4.8b,3.7s 111 4-150
IDC V 25 11 55 23.1–.58 17.18S 173.35W 0 4.8,4.6 **¶16544928**
ISCJB V 25 11 55 26.9–.24 17.14S–.07 173.46W–.06 35 4.7b,3.7s
NEIC V 25 11 55 37.7–1.6 17.31S 173.43W 120–15 4.6b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=14.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.5km az=140.9.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=6.2km az=149.0.
IDC V 25 16 14 43.1–58 20.19S 175.95W 0 4.2,4.0
¶17204460

IDC Error ellipse: s-maj=1078.0km s-min=168.3km az=83.0.
IDC V 26 11 18 38.0–14 19.40S 175.25W 123–121 4.1,4.1
¶17204501

IDC Error ellipse: s-maj=70.1km s-min=28.2km az=142.0.
IDC V 26 14 20 03.4–3.4 17.47S 174.38W 163–57 4.4,4.0
¶17204511

IDC Error ellipse: s-maj=61.0km s-min=32.3km az=99.0.
IDC V 26 19 31 10.3–44 17.18S 173.76W 0 4.3,4.1b
¶17204526

IDC Error ellipse: s-maj=842.8km s-min=179.5km az=80.0.
ISC V 27 01 13 13.4–.91 21.6S–.10 175.6W–.20 60 3.9b 10 18-145
IDC V 27 01 13 05.2–1.0 21.35S 175.55W 0 4.7L,4.2 **¶17204538**
ISCJB V 27 01 13 11.9–.93 21.5S–.10 175.6W–.20 60 3.9b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC V 27 18 01 19.1–6.5 17.71S 174.57W 247–31 3.5,3.1
¶17204580

IDC Error ellipse: s-maj=216.4km s-min=26.7km az=139.0.
ISC V 28 10 22 26.5–.50 16.01S–.09 173.17W–.09 26 4.2b,3.6s 30 2-149
IDC V 28 10 22 23.4–.61 16.00S 173.52W 0 6.1L,4.4 **¶16554045**
NEIC V 28 10 22 24.4–.37 16.18S 173.20W 10 4.7b,4.4
ISCJB V 28 10 22 25.1–.51 16.1S–.10 173.3W–.10 26 4.3b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 28 14 15 50.1–45 17.07S 173.25W 0 4.4,4.3
¶17204634

IDC Error ellipse: s-maj=863.0km s-min=169.3km az=80.0.
IDC V 28 15 16 19.2–43 16.07S 175.13W 0 4.6,4.4b
¶17204639

IDC Error ellipse: s-maj=821.3km s-min=161.0km az=78.0.
IDC V 28 18 14 11.6–42 16.28S 174.05W 0 4.8,4.6
¶17204649

IDC Error ellipse: s-maj=804.0km s-min=160.0km az=79.0.
ISC V 29 05 37 53.6–.81 19.1S–.10 173.1W–.10 21 4.1b,3.7s 27 5-150
IDC V 29 05 37 48.9–1.3 19.60S 172.90W 0 4.4,4.3L **¶16554076**
ISCJB V 29 05 37 52.3–.75 18.99S–.10 173.3W–.10 21 4.2b,3.7s
NEIC V 29 05 37 55.5–.61 19.11S 173.15W 35 4.8b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=62.5km s-min=18.1km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=19.7km s-min=7.8km az=41.3.
NEIC Event type se. Error ellipse: s-maj=22.5km s-min=9.0km az=147.0.
ISC V 29 15 00 52.7–.87 16.6S–.20 174.5W–.20 200 3.8b 15 4-147
IDC V 29 15 00 45.5–2.5 16.50S 174.47W 132–23 4.1,4.0 **¶17204707**
ISCJB V 29 15 00 51.4–.70 16.6S–.20 174.6W–.20 200 3.7b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC V 30 00 06 27.8–.28 15.19S–.06 173.41W–.07 30 5.2b,4.7s 661 2-175
IDC V 30 00 06 23.1–.43 15.24S 173.44W 0 4.9,4.8 **¶16551547**
NEIC V 30 00 06 24.7–.14 15.18S 173.56W 10 5.3b,4.8
GCMT V 30 00 06 24.7–.30 15.14S 173.35W 12 5.3W,4.8
MOS V 30 00 06 26.5–1.0 15.16S 173.54W 32 5.3b,4.7s
ISCJB V 30 00 06 26.1–.12 15.26S–.04 173.56W–.04 30 5.1b,4.6s
BJI V 30 00 06 27.1 15.27S 173.57W 30 5.5b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.3km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=3.5km az=125.0. Felt at Afono, American Samoa and at Apia, Samoa.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c13; s76,c95; Duration: 1$\hat{=}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.00±.01 $M_{\theta\theta}$0.15±.01; $M_{\phi\phi}$-0.14±.01; $M_{r\theta}$-0.92±.04; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.53±.03; Best double couple: NP1:ϕ_s121.00000°,δ89.00000° ,λ-83.00000°. NP2:ϕ_s216.00000°,δ8.00000°,λ-174.00000°. Principal axes: T 1.0960,Plg44.0000°,Azm203.0000°; N -0.0510,Plg7.0000°,Azm300.0000° ; P -1.0450,Plg45.0000°,Azm38.0000° $M_0$1.07000×10^{17}
MOS Error ellipse: s-maj=13.7km s-min=7.9km az=61.9.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.2km az=135.4.
ISC V 31 03 16 01.7–.74 15.3S–.20 173.4W–.20 30 4.4b,3.8s 41 2-147
IDC V 31 03 15 56.8–1.2 15.29S 173.37W 0 4.4,4.1 **¶16554152**
NEIC V 31 03 15 58.5–.36 15.25S 173.43W 10 4.6b,4.1
ISCJB V 31 03 16 00.1–.54 15.2S–.20 173.5W–.20 30 4.4b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 31 09 40 55.4–53 17.49S 174.18W 0 3.9,3.7
¶17204819

IDC Error ellipse: s-maj=1013.0km s-min=181.0km az=80.0.
IDC V 31 11 58 37.2–60 15.66S 173.20W 0 4.0,3.8
¶17204829

IDC Error ellipse: s-maj=1149.0km s-min=184.8km az=79.0.
IDC V 31 12 45 09.1–8.8 18.66S 173.81W 0 3.8,3.5
¶17204830

IDC Error ellipse: s-maj=386.9km s-min=37.8km az=142.0.
IDC V 31 15 54 29.9–3.0 15.98S 173.41W 0 3.9,3.7
¶17204833

IDC Error ellipse: s-maj=159.5km s-min=22.9km az=144.0.
ISC VI 01 05 16 00.2–.87 16.1S–.20 174.0W–.20 115 3.7b 12 3-175
IDC VI 01 05 15 52.6–3.2 16.15S 173.88W 45–30 4.5L,4.0 **¶16578056**
ISCJB VI 01 05 15 58.4–.87 16.2S–.20 174.0W–.20 115 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 02 09 22 04.0–1.1 17.4S–.30 175.0W–.20 250 4.0b 7 5-48
ISCJB VI 02 09 22 03.2–.91 17.4S–.20 175.1W–.20 250 4.0b **¶17204978**

IDC VI 02 09 22 05.3–2.2 17.27S 174.73W 291–54 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.0km s-min=9.7km az=138.3.
IDC Error ellipse: s-maj=51.9km s-min=37.9km az=75.0.
ISC VI 02 14 37 37.5–1.2 16.5S–.30 175.2W–.30 288 3.5b 7 4-146
IDC VI 02 14 37 33.9–2.2 16.47S 175.19W 248–25 3.9,3.5 **¶17205005**
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=18.3km az=133.0.
ISC VI 02 15 28 16.8–.40 16.17S–.07 173.13W–.08 26 4.8b,4.0s 285 3-174
IDC VI 02 15 28 13.3–.53 16.28S 173.31W 0 4.7,4.6 **¶16554501**
NEIC VI 02 15 28 14.8–.12 16.28S 173.34W 10 4.9b,4.6
BJI VI 02 15 28 15.4 15.81S 173.17W 13 5.2b,4.9b
ISCJB VI 02 15 28 16.6–.17 16.32S–.04 173.36W–.05 33 4.8b,4.1s
MOS VI 02 15 28 17.7–1.5 16.19S 173.40W 33 5.0b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=14.1km az=130.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=2.9km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.0km az=37.6.
MOS Error ellipse: s-maj=13.4km s-min=8.9km az=49.7.
ISC VI 03 09 50 02.0–.50 18.22S–.10 174.7W–.10 130 4.7b 58 5-149
IDC VI 03 09 49 59.3–2.9 18.38S 174.75W 104–26 4.4,4.2 **¶16577377**
NEIC VI 03 09 49 59.5–1.0 18.27S 174.86W 104–9 4.8b,4.2
ISCJB VI 03 09 50 01.1–.34 18.39S–.07 174.89W–.08 130 4.5b,4.2
ISC Event type fe.
NEIC Event type fe. Felt at Neiafu.
ISCJB Event type fe.
IDC VI 03 15 49 11.5–27 19.89S 174.05W 0 3.9,3.8
¶17205106
IDC Error ellipse: s-maj=501.5km s-min=147.7km az=75.0.
IDC VI 05 00 01 49.2–2.9 17.24S 174.37W 0 4.0,3.7
¶17205261
IDC Error ellipse: s-maj=327.0km s-min=33.3km az=158.0.
IDC VI 05 13 11 51.8–4.1 15.24S 173.07W 95–60 4.1,3.9
¶16856387
IDC Error ellipse: s-maj=164.1km s-min=48.0km az=136.0.
ISC VI 05 21 58 25.3–1.8 15.9S–.60 174.1W–.40 111 3.4b 11 3-146
IDC VI 05 21 58 19.9–4.5 16.44S 174.08W 70–32 4.2L,3.7 **¶17205364**
ISC Event type ke.
IDC Error ellipse: s-maj=111.7km s-min=21.9km az=150.0.
IDC VI 06 21 54 52.7–2.3 15.16S 173.25W 0 4.2,3.8b
¶16578071
IDC Error ellipse: s-maj=157.2km s-min=22.4km az=151.0.
IDC VI 08 22 08 39.5–2.1 16.04S 173.26W 0 4.2,3.9b
¶17205574
IDC Error ellipse: s-maj=150.1km s-min=22.4km az=154.0.
ISC VI 09 11 47 15.3–.54 16.1S–.10 175.1W–.10 278 4.0b 33 4-147
ISCJB VI 09 11 47 14.1–.42 16.2S–.10 175.16W–.09 278 4.0b **¶16856764**
IDC VI 09 11 47 14.4–1.2 16.13S 175.17W 268–12 4.4,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=7.2km az=145.0.
IDC Error ellipse: s-maj=17.6km s-min=9.9km az=131.0.
IDC VI 10 09 08 31.2–57 18.83S 174.96W 0 3.8,3.6
¶17205696
IDC Error ellipse: s-maj=1069.0km s-min=164.4km az=82.0.
ISC VI 10 20 22 42.7–.79 17.2S–.10 173.2W–.20 35 5.2b 40 4-84
NEIC VI 10 20 22 38.8–.37 17.29S 173.20W 10 5.3b **¶16856899**
IDC VI 10 20 22 38.4–1.4 17.32S 173.24W 0 4.1,3.8
ISCJB VI 10 20 22 40.7–.35 17.31S–.07 173.2W–.10 35 5.0b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 11 13 27 25.9–.65 16.2S–.10 173.2W–.10 32 4.1b 51 3-149
IDC VI 11 13 27 21.8–.71 16.34S 173.39W 0 4.4,4.2b **¶16856958**
NEIC VI 11 13 27 22.6–.59 16.34S 173.22W 10 4.2b,4.2b
ISCJB VI 11 13 27 24.6–.59 16.3S–.10 173.4W–.10 32 4.1b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 11 23 34 05.9–.55 15.4S–.10 173.4W–.10 100 4.4b 24 2-146
IDC VI 11 23 34 03.8–3.6 15.43S 173.80W 54–42 4.4L,4.3 **¶16713628**
ISCJB VI 11 23 34 04.6–.47 15.39S–.10 173.5W–.10 100 4.8b,4.3
NEIC VI 11 23 34 05.6–1.3 15.38S 173.49W 93–13 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=56.5km s-min=28.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=7.8km az=40.5.
NEIC Event type se. Error ellipse: s-maj=23.4km s-min=9.5km az=120.0.
ISC VI 12 07 57 59.7–.63 16.7S–.10 173.9W–.10 50 4.4b,3.4s 26 3-147
ISCJB VI 12 07 57 57.7–.54 16.66S–.09 174.0W–.10 50 4.4b,3.2s **¶16730151**
NEIC VI 12 07 58 00.3–.42 16.71S 173.94W 60–4 4.6b,3.2s
IDC VI 12 07 58 01.3–.84 16.60S 173.87W 67–6 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=7.6km az=40.7.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=9.9km az=125.0.
IDC Error ellipse: s-maj=27.8km s-min=10.6km az=129.0.
IDC VI 12 08 25 27.5–5.3 16.40S 175.43W 0 4.2,4.0b
¶17205819
IDC Error ellipse: s-maj=202.6km s-min=55.0km az=135.0.
ISC VI 12 16 04 19.5–.55 15.1S–.10 173.4W–.10 30 4.3b,3.3s 41 2-148
IDC VI 12 16 04 15.3–.64 15.16S 173.55W 0 4.9L,4.5 **¶16603620**
NEIC VI 12 16 04 16.8–.32 15.09S 173.56W 10 4.2b,4.5
ISCJB VI 12 16 04 18.2–.47 15.1S–.10 173.6W–.10 30 4.2b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 13 06 38 41.3–.34 15.98S–.07 173.18W–.06 26 4.8b,3.9s 267 2-174
IDC VI 13 06 38 37.0–.52 15.98S 173.21W 0 4.8,4.6 **¶16593453**
ISCJB VI 13 06 38 39.8–.19 16.01S–.05 173.31W–.05 26 4.8b,4.0s
NEIC VI 13 06 38 39.1–.15 15.92S 173.33W 10 4.9b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=25.0km s-min=13.9km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.7km az=138.9.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=3.9km az=139.0.
IDC VI 14 04 16 36.0–28 21.17S 174.00W 0 4.2,4.1b
¶17206084
IDC Error ellipse: s-maj=519.9km s-min=162.4km az=76.0.
IDC VI 14 12 01 39.6–27 21.99S 173.56W 0 4.1,4.0
¶17206111
IDC Error ellipse: s-maj=507.0km s-min=159.7km az=76.0.
ISC VI 15 13 33 00.6–.49 20.47S–.09 175.06W–.10 10 4.3b,3.4s 33 7-172
ISCJB VI 15 13 32 59.2–.46 20.51S–.09 175.14W–.10 10 4.3b,3.3s **¶16645040**
IDC VI 15 13 32 59.0–.64 20.52S 175.12W 0 4.3,4.2
NEIC VI 15 13 33 01.2–4.4 20.49S 175.09W 14–27 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=9.9km az=41.6.
IDC Error ellipse: s-maj=25.9km s-min=17.1km az=146.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.3km az=135.0.
IDC VI 16 20 38 29.6–3.0 16.17S 175.30W 172–57 4.0,3.7
¶17206345
IDC Error ellipse: s-maj=157.3km s-min=33.4km az=139.0.
IDC VI 16 22 04 45.9–9.1 17.93S 174.37W 0 4.2,3.9
¶17206350
IDC Error ellipse: s-maj=398.6km s-min=38.8km az=141.0.
IDC VI 17 02 06 32.5–6.6 16.74S 173.74W 0 4.2,3.9
¶17206360
IDC Error ellipse: s-maj=289.9km s-min=26.4km az=139.0.
ISC VI 18 20 04 15.7–.41 19.32S–.04 175.82W–.04 202–3 5.2b 947 6-176
BJI VI 18 20 04 12.8 19.46S 175.43W 196 5.3b,5.1b **¶16720948**
MOS VI 18 20 04 14.2–.97 19.27S 175.93W 189 5.2b,5.1b
ISCJB VI 18 20 04 14.2–.86 19.38S–.03 175.91W–.03 195–8 5.1b,5.1b
IDC VI 18 20 04 15.9–1.4 19.39S 175.85W 198–12 5.2,4.7
NEIC VI 18 20 04 19.6–.93 19.41S 175.90W 236–8 5.3W,5.1b

GCMT VI 18 20 04 19.6–.20 19.49S 175.49W 247–1 5.3W,5.1b
ISC Event type se.
MOS Error ellipse: s-maj=8.0km s-min=6.9km az=74.4.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.3km az=148.8.
IDC Error ellipse: s-maj=10.0km s-min=8.8km az=117.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=127.0. Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ81.00000°,λ-82.00000°. NP2:ϕ_s174.00000°,δ11.00000°,λ-132.00000°. Principal axes: T 1.2500,Plg36.0000°,Azm120.0000° ; N 0.0600,Plg8.0000°,Azm216.0000°; P -1.3100,Plg53.0000°,Azm316.0000°
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c111; s89,c130; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.47±.18 $M_{\theta\theta}$1.60±.24; $M_{\phi\phi}$-1.13±.22; $M_{r\theta}$-4.57±.19; $M_{\theta\phi}$1.95±.19; $M_{\phi r}$-7.96±.16; Best double couple: NP1:ϕ_s29.00000°,δ88.00000°,λ-103.00000°. NP2:ϕ_s289.00000°,δ14.00000°,λ-10.00000°. Principal axes: T 9.8390,Plg41.0000°,Azm131.0000°; N -0.7460,Plg13.0000°,Azm29.0000° ; P -9.0990,Plg46.0000°,Azm285.0000° M_o9.46900×10^{16}
IDC VI 20 01 43 28.2–7.8 16.31S 173.17W 0 4.1,4.0b
¶17206560
IDC Error ellipse: s-maj=318.9km s-min=29.3km az=136.0.
ISC VI 20 03 27 31.5–.32 15.22S–.06 173.59W–.06 100 4.7b 282 2-175
IDC VI 20 03 27 18.0–.63 15.14S 173.53W 0 4.6,4.4 **¶16638795**
ISCJB VI 20 03 27 29.6–.20 15.16S–.05 173.65W–.05 100 4.8b,4.4
MOS VI 20 03 27 32.3–1.5 15.15S 173.72W 121 4.6b,4.6s
GCMT VI 20 03 27 33.1–.30 15.52S 173.36W 82–3 5.2W,4.6s
NEIC VI 20 03 27 33.1–1.1 15.21S 173.61W 119–10 4.7b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=16.4km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=140.4.
MOS Error ellipse: s-maj=12.3km s-min=8.2km az=59.3.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c17; s66,c90; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.65±.04 $M_{\theta\theta}$0.55±.03; $M_{\phi\phi}$0.09±.03; $M_{r\theta}$0.29±.04; $M_{\theta\phi}$0.52±.02; $M_{\phi r}$-0.19±.02; Best double couple: NP1:ϕ_s262.00000°,δ56.00000°,λ-56.00000°. NP2:ϕ_s31.00000°,δ47.00000°,λ-130.00000°. Principal axes: T 0.9050,Plg5.0000°,Azm328.0000°; N -0.0750,Plg28.0000°,Azm61.0000° ; P -0.8300,Plg62.0000°,Azm228.0000° M_o0.86700×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=145.0.
IDC VI 20 05 10 55.5–4.0 15.03S 173.16W 0 4.3,4.1b
¶16645422
IDC Error ellipse: s-maj=242.0km s-min=24.1km az=148.0.
IDC VI 20 06 45 09.8–1.4 15.62S 173.99W 0 4.6L,4.3
¶17206580
IDC Error ellipse: s-maj=50.7km s-min=25.7km az=139.0.
ISC VI 20 19 19 46.7–.74 19.2S–.10 174.7W–.20 133 4.0b 16 6-173
IDC VI 20 19 19 33.1–1.0 19.57S 174.96W 0 4.2,4.1 **¶16731062**
NEIC VI 20 19 19 37.4–4.6 19.60S 174.92W 28–34 4.7b,4.1
ISCJB VI 20 19 19 44.5–.68 19.2S–.10 174.7W–.10 133 3.9b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 20 22 17 14.4–.95 19.0S–.10 174.3W–.20 35 5.0b 32 6-149
IDC VI 20 22 17 10.7–1.4 19.06S 174.36W 0 4.3,4.2 **¶16731085**
ISCJB VI 20 22 17 11.1–.68 19.07S–.09 174.1W–.10 35 4.8b,4.2
NEIC VI 20 22 17 14.1–.71 19.20S 174.23W 35 4.8b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=54.3km s-min=23.8km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=7.9km az=31.4.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=11.1km az=126.0.
IDC VI 21 23 02 58.1–58 18.56S 175.37W 0 4.3,4.1
¶17206707
IDC Error ellipse: s-maj=1097.0km s-min=183.2km az=81.0.
IDC VI 22 18 29 49.5–66 15.28S 173.44W 0 4.5,4.3
¶17206770
IDC Error ellipse: s-maj=1261.0km s-min=184.8km az=78.0.
IDC VI 22 19 59 23.6–47 15.61S 173.20W 0 4.1,3.9
¶17206776
IDC Error ellipse: s-maj=909.8km s-min=185.3km az=79.0.
ISC VI 23 04 33 49.0–.33 15.03S–.07 173.29W–.06 30 5.0b,5.0s 620 2-175
IDC VI 23 04 33 44.6–.59 15.11S 173.47W 0 4.9s,4.9 **¶16645796**
GCMT VI 23 04 33 46.2–.10 14.85S 173.13W 12–0 5.4W,4.9
NEIC VI 23 04 33 46.2–.19 14.97S 173.50W 10 5.1b,4.9
ISCJB VI 23 04 33 47.6–.24 15.05S–.06 173.28W–.05 30 5.0s,5.0b
BJI VI 23 04 33 48.2 15.19S 172.63W 57 5.6b,5.3s
MOS VI 23 04 33 49.8–1.1 14.89S 173.28W 37 5.2b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=16.9km az=131.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c142; s128,c232; Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.23±.02 $M_{\theta\theta}$0.72±.02; $M_{\phi\phi}$-0.94±.02; $M_{r\theta}$0.62±.07; $M_{\theta\phi}$0.94±.02; $M_{\phi r}$0.90±.09; Best double couple: NP1:ϕ_s19.00000°,δ82.00000°,λ140.00000°. NP2:ϕ_s115.00000°,δ51.00000°,λ10.00000°. Principal axes: T 1.7600,Plg33.0000°,Azm329.0000°; N -0.1730,Plg49.0000°,Azm189.0000° ; P -1.5870,Plg21.0000°,Azm73.0000° M_o1.67400×10^{17}
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.0km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.1km az=164.1.
MOS Error ellipse: s-maj=14.3km s-min=9.3km az=65.2.
IDC VI 24 07 40 12.2–4.6 15.92S 173.30W 44–9 3.8,3.8s
¶17206857
IDC Error ellipse: s-maj=191.3km s-min=11.6km az=136.0.
IDC VI 25 05 44 57.2–3.0 15.88S 174.16W 104–39 4.3,4.1
¶17206905
IDC Error ellipse: s-maj=192.3km s-min=22.0km az=140.0.
ISC VI 25 10 05 01.2–.40 18.27S–.08 175.79W–.09 250 4.5b 189 6-174
BJI VI 25 10 04 57.8 18.38S 176.10W 220 4.9b,4.6b **¶16681202**
IDC VI 25 10 04 59.4–2.1 18.31S 175.85W 227–20 4.6,4.2
NEIC VI 25 10 04 59.5–.86 18.30S 175.93W 230–8 4.5b,4.2
ISCJB VI 25 10 05 00.4–.21 18.30S–.05 175.97W–.07 250 4.4b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 25 20 22 00.5–27 18.82S 173.68W 0 4.3,4.2
¶17206940
IDC Error ellipse: s-maj=502.3km s-min=162.3km az=74.0.
IDC VI 26 08 26 34.7–48 16.52S 175.74W 0 3.9,3.7
¶17206968
IDC Error ellipse: s-maj=906.3km s-min=161.5km az=79.0.
IDC VI 26 09 50 57.5–1.5 15.17S 173.55W 0 4.4L,4.1
¶17206972
IDC Error ellipse: s-maj=100.3km s-min=18.5km az=148.0.
IDC VI 26 13 34 57.7–17 20.18S 174.79W 0 4.4,4.2
¶17206995
IDC Error ellipse: s-maj=318.1km s-min=140.1km az=81.0.
ISC VI 26 17 23 51.1–.79 16.9S–.20 173.6W–.20 52 3.9b 11 3-148
IDC VI 26 17 23 43.9–.79 16.92S 173.52W 0 4.2,3.9 **¶16711260**
ISCJB VI 26 17 23 49.4–.77 17.0S–.20 173.6W–.20 52 4.0b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 00 30 31.2–.56 17.11S–.05 173.62W–.04 50–4 5.5b,4.9s 1286 4-174
IDC VI 27 00 30 24.0–.37 17.02S 173.68W 0 5.3,5.3 **¶16721010**
BJI VI 27 00 30 27.0 16.86S 173.08W 35 5.6b,5.4b
ISCJB VI 27 00 30 28.6–.11 17.12S–.03 173.70W–.02 40 5.5b,4.8s
MOS VI 27 00 30 28.8–1.1 16.95S 173.65W 33 5.6b,4.8s
GCMT VI 27 00 30 29.7–.10 17.18S 173.31W 58–0 5.4W,4.8s
NEIC VI 27 00 30 29.7–.10 17.11S 173.69W 35 5.6b,5.5W
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.2km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.8km az=152.5.
MOS Error ellipse: s-maj=9.1km s-min=6.5km az=65.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c203; s117,c224;Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.02 $M_{\theta\theta}$-1.37±.02; $M_{\phi\phi}$0.39±.02; $M_{r\theta}$0.46±.02; $M_{\theta\phi}$0.12±.02; $M_{\phi r}$-0.81±.02; Best double couple: NP1:

ϕ_s124.00000°,δ65.00000°,λ124.00000°. NP2:ϕ_s245.00000°,δ42.00000°,λ39.00000°. Principal axes: T 1.5840,Plg56.0000°,Azm79.0000°; N -0.0820,Plg31.0000°,Azm288.0000°; P -1.5010,Plg13.0000°,Azm189.0000° $M_0$1.54200×10^{17}

NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.6km az=141.0. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}2.01 $M_{\theta\theta}$-2.01 $M_{\phi\phi}$0.00 $M_{r\theta}$0.78 $M_{\theta\phi}$0.45 $M_{\phi r}$-0.89 Best double couple: NP1:ϕ_s119.00000°,δ60.00000°,λ108.00000°. NP2:ϕ_s266.00000°,δ35.00000°,λ62.00000°. Principal axes: T 2.4200,Plg70.0000°,Azm68.0000°; N -0.1000,Plg15.0000°,Azm289.0000°; P -2.3200,Plg13.0000°,Azm196.0000° $M_0$2.40000×10^{17}

IDC VI 27 03 15 01.8–2.9 16.16S 175.10W 272–80 3.7,3.3 ¶17207040

IDC Error ellipse: s-maj=442.0km s-min=26.9km az=141.0.

IDC VI 27 21 02 27.8–52 18.74S 175.10W 0 3.9,3.8 ¶17207099

IDC Error ellipse: s-maj=988.3km s-min=166.2km az=82.0.

IDC VI 28 12 21 57.7–48 17.32S 173.66W 0 4.4,4.2 ¶17207139

IDC Error ellipse: s-maj=916.4km s-min=176.8km az=80.0.

ISC VI 28 17 26 01.4–.31 15.39S–.06 173.35W–.06 42 4.9b,4.0s 301 2-154
BJI VI 28 17 25 55.1 15.53S 173.58W 9 5.3b,5.2s **¶16685966**
IDC VI 28 17 25 55.5–.55 15.27S 173.34W 0 4.7,4.5
NEIC VI 28 17 25 56.9–.14 15.32S 173.40W 10 4.9b,4.5
GCMT VI 28 17 25 56.9–.30 15.31S 173.19W 27–1 5.1W,4.5
ISCJB VI 28 17 26 00.1–.17 15.28S–.05 173.52W–.04 42 4.9b,4.0s
ISC Event type fe.
NEIC Event type fe. Felt at Apia, Samoa.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c31; s75,c104;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.30±.14 $M_{\theta\theta}$-1.57±.11; $M_{\phi\phi}$1.27±.11; $M_{r\theta}$-5.88±.47; $M_{\theta\phi}$0.15±.09; $M_{\phi r}$-1.49±.20; Best double couple: NP1:ϕ_s254.00000°,δ86.00000°,λ82.00000°. NP2:ϕ_s140.00000°,δ9.00000°,λ155.00000°. Principal axes: T 5.6700,Plg48.0000°,Azm156.0000°; N 1.0130,Plg8.0000°,Azm255.0000°; P -6.6810,Plg41.0000°,Azm352.0000° $M_0$6.17500×10^{16}
ISCJB Event type fe.

IDC VI 29 15 19 20.2–7.8 15.76S 175.98W 0 4.0,3.7 ¶17207204

IDC Error ellipse: s-maj=344.4km s-min=36.3km az=140.0.

(174) Tonga Islands region.

IDC I 05 00 55 09.2–28 22.12S 173.47W 0 3.9,3.7 ¶17189467

IDC Error ellipse: s-maj=521.6km s-min=161.6km az=76.0.

IDC I 05 07 27 35.3–28 23.84S 173.51W 0 4.2,4.0 ¶17189490

IDC Error ellipse: s-maj=520.3km s-min=158.2km az=78.0.

IDC I 05 18 17 40.8–6.5 19.92S 172.29W 0 4.1,3.9 ¶17189526

IDC Error ellipse: s-maj=273.5km s-min=35.1km az=144.0.

IDC I 09 10 24 44.8–27 22.13S 172.02W 0 4.2,4.1 ¶17189753

IDC Error ellipse: s-maj=503.4km s-min=163.3km az=77.0.

IDC I 10 11 02 23.6–27 22.14S 173.72W 0 4.2,4.1 ¶17189844

IDC Error ellipse: s-maj=493.3km s-min=144.6km az=77.0.

IDC I 12 16 21 13.5–3.3 20.14S 172.73W 0 4.1,3.9 ¶17190001

IDC Error ellipse: s-maj=292.1km s-min=62.1km az=174.0.

ISC I 20 21 33 42.0–.51 23.5S–.10 175.08W–.09 30 4.4b,3.5s 40 6-169
IDC I 20 21 33 37.7–.90 23.80S 175.46W 0 4.3,4.2b **¶15968935**
ISCJB I 20 21 33 40.3–.60 23.5S–.10 175.1W–.10 30 4.4b,3.5s
NEIC I 20 21 33 42.5–.62 23.54S 175.09W 35 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=36.6km s-min=22.4km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=12.7km az=43.9.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=14.0km az=151.0.

ISC I 22 22 16 41.4–.45 19.3S–.10 172.38W–.10 35 4.7b,3.8s 121 5-172
IDC I 22 22 16 32.7–.51 18.10S 172.15W 0 4.6,4.6L **¶15959232**
NEIC I 22 22 16 37.9–.33 19.28S 172.44W 10 4.9b,4.6L
ISCJB I 22 22 16 40.4–.29 19.19S–.09 172.55W–.07 33 4.7b,3.9s
BJI I 22 22 16 41.7 19.70S 172.92W 35 5.5b,5.2s
ISC Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=14.6km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=17.4km s-min=8.3km az=155.0. Felt at Fagatogo, American Samoa.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=7.0km az=149.7.

IDC I 25 07 53 58.0–24 18.50S 172.54W 0 4.6,4.5 ¶17190949

IDC Error ellipse: s-maj=451.7km s-min=155.5km az=72.0.

ISC II 12 00 40 18.3–.72 23.8S–.20 173.59W–.10 35 4.3b 16 13-152
NEIC II 12 00 40 13.9–4.0 23.81S 173.61W 5–25 4.3b **¶16328815**
ISCJB II 12 00 40 16.1–.64 23.8S–.10 173.58W–.09 33 4.3b
IDC II 12 00 40 17.8–26 23.43S 174.30W 0 4.4,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=12.0km az=171.5.
IDC Error ellipse: s-maj=483.6km s-min=149.5km az=79.0.

ISC II 14 07 30 25.1–.57 22.46S–.09 176.0W–.10 35 4.4b 36 9-170
IDC II 14 07 30 19.6–.65 22.53S 175.87W 0 4.8L,4.6 **¶16398165**
ISCJB II 14 07 30 23.2–.65 22.5S–.10 175.9W–.10 35 4.3b,4.6
NEIC II 14 07 30 24.6–.39 22.59S 175.80W 35 4.5b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=28.7km s-min=15.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=21.7km s-min=8.7km az=37.4.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=7.9km az=130.0.

ISC II 15 20 10 08.1–.89 23.4S–.20 175.3W–.20 30 4.0b,3.9s 17 15-154
IDC II 15 20 10 03.9–1.1 23.23S 175.38W 0 4.3,4.2 **¶17192322**
ISCJB II 15 20 10 07.1–.69 23.3S–.10 175.4W–.20 30 4.0b,4.0s
ISC Event type ke.
ISCJB Event type ke.

IDC II 16 08 03 58.1–9.6 17.12S 172.89W 0 4.3,4.0 ¶17192352

IDC Error ellipse: s-maj=441.1km s-min=35.1km az=141.0.

ISC II 18 08 59 25.4–.64 18.9S–.10 172.9W–.10 21 4.8b,3.6s 65 5-150
IDC II 18 08 59 21.6–.85 18.73S 172.93W 0 4.5,4.3 **¶16031879**
ISCJB II 18 08 59 23.5–.32 18.81S–.09 173.03W–.08 21 4.8b,3.8s
NEIC II 18 08 59 26.6–.43 18.73S 172.94W 35 5.0b,3.8s
BJI II 18 08 59 31.0 19.21S 173.81W 32 5.5b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=34.2km s-min=16.6km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=7.0km az=145.8.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=7.6km az=127.0.

ISC II 22 05 16 49.9–.63 20.78S–.10 172.94W–.10 35 4.4b 22 7-150
IDC II 22 05 16 45.2–.92 20.61S 173.00W 0 4.5,4.4 **¶16176407**
NEIC II 22 05 16 46.6–.41 20.60S 173.00W 10 4.5b,4.4
ISCJB II 22 05 16 48.0–.53 20.77S–.07 172.94W–.09 33 4.2b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC II 23 04 03 29.5–.40 22.26S–.10 175.87W–.08 10 4.8b,3.6s 183 6-171
IDC II 23 04 03 28.2–.47 22.19S 175.89W 0 4.7,4.6L **¶16136365**
ISCJB II 23 04 03 29.1–.22 22.20S–.07 175.98W–.06 10 4.8b,3.5s
NEIC II 23 04 03 33.8–2.6 22.24S 175.92W 34–17 5.0b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=12.7km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=5.0km az=148.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.1km az=145.0.

ISC II 25 07 30 40.4–.85 23.2S–.10 174.9W–.10 29 4.1b,3.9s 14 10-151
IDC II 25 07 30 37.3–1.9 23.46S 175.00W 0 4.4,4.3 **¶16195208**
ISCJB II 25 07 30 38.5–.75 23.3S–.10 174.9W–.10 29 4.0b,3.9s
NEIC II 25 07 30 38.4–.64 23.43S 174.95W 10 4.2b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=68.9km s-min=27.6km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=11.9km az=148.8.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=10.8km az=148.0.

IDC II 28 05 38 11.3–6.0 18.92S 172.67W 0 4.1,3.9 ¶17192981

IDC Error ellipse: s-maj=257.5km s-min=34.7km az=144.0.

ISC III 02 13 09 16.9–.78 18.8S–.10 172.9W–.20 21 3.9b 13 5-149
IDC III 02 13 09 13.4–1.4 18.83S 172.88W 0 4.2,3.9 **¶16318195**
ISCJB III 02 13 09 15.0–.67 18.8S–.10 173.0W–.20 21 4.0b,3.9
NEIC III 02 13 09 17.3–2.7 18.77S 172.95W 24–19 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=67.7km s-min=19.5km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=23.9km s-min=11.6km az=33.9.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=8.2km az=124.0.

IDC III 03 18 20 56.0–27 23.79S 173.57W 0 4.2,4.1 ¶17193203

IDC Error ellipse: s-maj=502.1km s-min=155.0km az=78.0.

IDC III 05 10 20 14.8–53 17.40S 172.28W 0 4.1,3.9 ¶17193278

IDC Error ellipse: s-maj=1020.0km s-min=199.9km az=81.0.

ISC III 09 02 31 37.6–.78 22.9S–.20 174.42W–.10 36 4.4b 21 9-151
IDC III 09 02 31 33.6–1.9 22.69S 174.73W 0 4.4,4.2b **¶16400366**
ISCJB III 09 02 31 35.0–.77 23.0S–.20 174.44W–.10 36 4.3b,4.2b
NEIC III 09 02 31 37.4–.68 22.97S 174.45W 35 4.6b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=75.9km s-min=26.8km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=27.2km s-min=12.8km az=175.4.
NEIC Event type se. Error ellipse: s-maj=28.6km s-min=12.5km az=175.0.

IDC III 11 16 46 21.4–24 17.88S 172.84W 0 4.9,4.7 ¶17193998

IDC Error ellipse: s-maj=444.6km s-min=153.0km az=72.0.

IDC III 12 04 58 54.5–27 20.63S 172.93W 0 4.4,4.2 ¶17194263

IDC Error ellipse: s-maj=506.2km s-min=152.2km az=75.0.

IDC III 12 12 52 27.7–27 19.72S 172.45W 0 4.3,4.2 ¶17194425

IDC Error ellipse: s-maj=507.7km s-min=160.8km az=75.0.

IDC III 13 05 06 29.2–3.0 22.35S 175.47W 0 4.2,3.9 ¶17194730

IDC Error ellipse: s-maj=189.1km s-min=30.1km az=152.0.

IDC III 14 17 34 21.3–40 23.56S 174.56W 0 4.2,4.1 ¶17195217

IDC Error ellipse: s-maj=746.2km s-min=164.4km az=88.0.

IDC III 15 12 56 59.4–26 22.89S 173.00W 0 4.4,4.3 ¶17196145

IDC Error ellipse: s-maj=483.6km s-min=139.7km az=78.0.

IDC III 16 14 53 32.1–2.0 17.27S 169.94W 0 4.1,3.7 ¶17196473

IDC Error ellipse: s-maj=119.8km s-min=26.0km az=151.0.

ISC III 18 22 17 59.2–1.5 22.7S–.20 173.1W–.20 35 4.1b 13 29-159
IDC III 18 22 17 54.9–54 22.80S 173.10W 0 4.1,3.9 **¶16479047**
NEIC III 18 22 17 55.4–.81 22.73S 173.03W 10 4.3b,3.9
ISCJB III 18 22 17 56.7–1.6 22.7S–.20 173.0W–.30 33 4.2b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC III 20 14 42 46.7–.88 22.9S–.10 175.8W–.10 71 4.3b 12 8-85
IDC III 20 14 42 41.0–1.8 22.87S 176.19W 0 4.4,4.4 **¶16437925**
NEIC III 20 14 42 52.8–1.2 22.99S 175.88W 126–15 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=44.8km s-min=28.5km az=146.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=11.0km az=199.0.

IDC III 23 06 40 03.6–7.7 22.53S 172.02W 0 4.4,4.1 ¶17198138

IDC Error ellipse: s-maj=332.5km s-min=38.8km az=144.0.

ISC III 26 01 01 00.1–.51 23.9S–.10 174.8W–.10 24 4.7b,3.9s 56 9-169
IDC III 26 01 00 56.2–.55 23.93S 174.77W 0 4.6,4.4L **¶16480947**
ISCJB III 26 01 00 58.8–.48 23.80S–.09 174.87W–.09 24 4.5b,3.9s
NEIC III 26 01 01 02.3–1.7 23.84S 174.83W 44–14 4.8b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.1km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=9.1km az=136.7.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=9.7km az=136.0.

IDC III 29 22 43 16.6–52 22.92S 171.41W 0 4.2,4.0 ¶17199122

IDC Error ellipse: s-maj=1004.0km s-min=199.5km az=89.0.

IDC IV 02 15 33 23.3–27 22.09S 172.94W 0 4.1,4.0 ¶17199544

IDC Error ellipse: s-maj=512.4km s-min=160.6km az=77.0.

ISC IV 04 08 02 31.5–.90 19.3S–.10 172.5W–.10 35 4.5b 13 5-64
IDC IV 04 08 02 26.9–1.8 19.45S 172.58W 0 4.5,4.5 **¶16577650**
ISCJB IV 04 08 02 29.0–.76 19.31S–.09 172.5W–.10 33 4.4b,4.5
NEIC IV 04 08 02 31.6–.57 19.42S 172.49W 35 4.4b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=48.4km s-min=29.9km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=11.2km az=41.5.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=10.0km az=159.0.

ISC IV 05 10 33 57.0–.80 23.2S–.20 174.6W–.10 36 4.2b 15 9-147
IDC IV 05 10 33 51.4–1.5 23.07S 174.72W 0 4.5,4.2b **¶16577673**
NEIC IV 05 10 33 56.6–.72 23.18S 174.62W 35 4.2b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=64.1km s-min=20.6km az=152.0.
NEIC Event type se. Error ellipse: s-maj=21.7km s-min=16.6km az=157.0.

ISC IV 05 13 46 39.1–.88 23.6S–.20 174.27W–.09 35 4.3b 18 9-91
IDC IV 05 13 46 35.2–1.7 23.45S 174.48W 0 4.5,4.3 **¶16506211**
NEIC IV 05 13 46 39.1–.75 23.56S 174.29W 35 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=61.3km s-min=21.8km az=147.0.
NEIC Event type se. Error ellipse: s-maj=26.4km s-min=12.7km az=172.0.

IDC IV 06 04 49 55.5–28 20.03S 172.54W 0 4.4,4.3 ¶17199966

IDC Error ellipse: s-maj=522.9km s-min=164.7km az=75.0.

IDC IV 06 09 02 22.1–12 18.92S 171.79W 0 3.9,3.6 ¶17199989

IDC Error ellipse: s-maj=546.9km s-min=38.3km az=141.0.

IDC IV 07 01 59 57.9–4.4 21.28S 172.45W 0 4.3,4.1 ¶17200071

IDC Error ellipse: s-maj=288.2km s-min=34.7km az=156.0.

ISC IV 07 15 13 36.8–1.5 23.5S–.20 175.9W–.20 33 4.7b 12 16-97
IDC IV 07 15 13 31.5–54 23.14S 175.90W 0 4.2,4.0 **¶16577726**
ISCJB IV 07 15 13 35.4–1.3 23.5S–.20 175.9W–.20 33 4.6b,4.0
NEIC IV 07 15 13 37.1–.83 23.53S 175.90W 35 4.9b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=996.8km s-min=162.1km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=28.1km s-min=23.7km az=39.6.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=15.2km az=129.0.

IDC IV 10 00 33 46.6–3.0 19.56S 171.81W 0 4.1,3.7 ¶17200393

IDC Error ellipse: s-maj=323.7km s-min=30.2km az=158.0.

IDC IV 10 03 52 06.9–27 22.88S 171.87W 0 4.2,4.1 ¶17200414

IDC Error ellipse: s-maj=505.0km s-min=159.8km az=77.0.

IDC IV 12 20 35 04.6–5.8 22.58S 173.30W 0 3.9,3.6 ¶17200804

IDC Error ellipse: s-maj=253.0km s-min=36.1km az=142.0.

IDC IV 13 16 37 41.9–25 19.39S 172.48W 0 4.2,4.0 ¶17200916

IDC Error ellipse: s-maj=471.0km s-min=159.5km az=74.0.

IDC IV 13 16 47 22.6–26 22.65S 173.05W 0 4.4,4.3 ¶17200917

IDC Error ellipse: s-maj=483.9km s-min=149.6km az=77.0.

IDC IV 14 09 59 46.5–27 22.53S 173.31W 0 4.2,4.1

¶17201006

IDC Error ellipse: s-maj=501.6km s-min=153.9km az=77.0.
IDC IV 17 07 48 02.1–25 23.38S 172.33W 0 4.1,3.9

¶17201293

IDC Error ellipse: s-maj=462.8km s-min=147.3km az=78.0.
IDC IV 17 16 49 49.6–9.9 21.88S 171.58W 0 4.3,4.2

¶17201342

IDC Error ellipse: s-maj=204.7km s-min=131.8km az=37.0.
IDC IV 19 12 34 40.4–26 19.30S 171.60W 0 4.3,4.2

¶17201497

IDC Error ellipse: s-maj=497.3km s-min=166.4km az=74.0.
IDC IV 19 17 07 08.4–45 19.53S 167.66W 0 4.0,3.8

¶17201523

IDC Error ellipse: s-maj=913.8km s-min=208.8km az=85.0.
IDC IV 20 20 15 39.7–50 22.34S 172.38W 0 3.9,3.7

¶17201640

IDC Error ellipse: s-maj=954.5km s-min=174.6km az=87.0.
ISC IV 21 18 52 33.5–1.1 17.5S–.20 173.0W–.30 28 3.9b 13 4-148
IDC IV 21 18 52 28.8–1.0 17.45S 172.93W 0 4.3,4.1b **¶17201732**
ISCJB IV 21 18 52 31.2–.89 17.4S–.20 173.1W–.20 28 4.1b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 17 14 52.7–.33 23.01S–.04 174.46W–.04 35–2 5.5b,5.2s 1395 7-180
BJI IV 22 17 14 46.0 22.58S 173.95W 5 6.1b,5.4b **¶16505488**
IDC IV 22 17 14 48.0–.40 22.76S 174.64W 0 5.2,5.2
ISCJB IV 22 17 14 51.2–.09 22.88S–.03 174.56W–.02 33 5.5b,5.2s
NEIC IV 22 17 14 51.2–1.6 22.81S 174.59W 22–11 5.5b,5.2s
GCMT IV 22 17 14 51.2–.10 22.90S 174.18W 13–0 5.5W,5.2s
MOS IV 22 17 14 52.3–1.0 22.64S 174.75W 33 5.7b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.0km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.3km az=150.7.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c156; s125,c239; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.13±.04 $M_{\theta\theta}$0.39±.03; $M_{\phi\phi}$1.75±.03; $M_{r\theta}$0.17±.09; $M_{\theta\phi}$1.41±.03; $M_{\phi r}$0.35±.08; Best double couple: NP1:ϕ_s211.00000°,δ50.00000° ,λ-92.00000°. NP2:ϕ_s34.00000°,δ40.00000°,λ-88.00000°. Principal axes: T 2.6650,Plg5.0000°,Azm302.0000°; N -0.4980,Plg2.0000°,Azm212.0000° ; P -2.1620,Plg85.0000°,Azm104.0000° $M_0$2.41400×10^{17}
MOS Error ellipse: s-maj=8.8km s-min=7.0km az=62.4.
IDC IV 25 18 55 06.7–6.6 22.98S 173.22W 0 4.2,4.0b

¶17202070

IDC Error ellipse: s-maj=176.6km s-min=83.8km az=133.0.
IDC IV 26 14 58 03.5–15 18.07S 171.08W 0 4.1,4.0

¶17202155

IDC Error ellipse: s-maj=295.5km s-min=147.7km az=82.0.
ISC IV 27 23 12 29.8–1.4 23.4S–.40 175.4W–.20 30 4.0b 21 8-151
IDC IV 27 23 12 25.5–1.3 23.03S 175.51W 0 4.4L,4.2 **¶16681492**
ISCJB IV 27 23 12 28.1–1.1 23.4S–.40 175.4W–.20 30 4.1b,3.4s
NEIC IV 27 23 12 29.7–1.2 23.72S 175.22W 35 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=62.6km s-min=18.1km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=60.0km s-min=13.1km az=156.6.
NEIC Event type se. Error ellipse: s-maj=72.8km s-min=13.1km az=157.0.
ISC IV 28 15 11 04.9–1.9 18.7S–.40 172.6W–.30 10 4.0b 12 39-73
ISCJB IV 28 15 11 03.1–1.7 18.6S–.40 172.6W–.30 10 4.5b **¶16631214**
NEIC IV 28 15 11 08.6–1.2 18.67S 172.62W 35 4.7b
IDC IV 28 15 11 11.0–26 19.07S 173.51W 0 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=59.2km s-min=22.9km az=145.7.
NEIC Event type se. Error ellipse: s-maj=45.9km s-min=17.4km az=146.0.
IDC Error ellipse: s-maj=476.0km s-min=147.4km az=74.0.
IDC V 02 02 33 58.0–26 22.24S 171.27W 0 4.1,4.0

¶17202574

IDC Error ellipse: s-maj=496.8km s-min=163.6km az=77.0.
IDC V 02 09 54 26.4–10 21.95S 171.75W 0 4.2,4.0

¶17202604

IDC Error ellipse: s-maj=204.8km s-min=131.3km az=39.0.
IDC V 02 15 48 05.7–17 23.44S 174.75W 0 4.6,4.5

¶17202622

IDC Error ellipse: s-maj=327.1km s-min=141.5km az=83.0.
IDC V 03 20 04 35.8–2.0 20.68S 172.97W 0 3.8,3.6b

¶17202710

IDC Error ellipse: s-maj=96.7km s-min=37.6km az=7.0.
ISC V 07 21 41 12.3–1.0 21.8S–.10 172.4W–.20 35 4.2b 14 8-88
IDC V 07 21 41 09.3–26 21.00S 172.85W 0 4.1,4.0 **¶16578052**
ISCJB V 07 21 41 10.5–.93 21.8S–.10 172.5W–.20 33 4.2b,4.0
NEIC V 07 21 41 10.4–3.1 21.77S 172.41W 21–22 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=494.3km s-min=160.3km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=26.1km s-min=12.4km az=37.8.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=8.9km az=127.0.
IDC V 10 09 13 12.3–51 22.39S 172.97W 0 4.4,4.3

¶17203200

IDC Error ellipse: s-maj=980.4km s-min=184.1km az=87.0.
IDC V 11 12 03 02.4–17 22.21S 174.77W 0 4.3,4.2

¶17203388

IDC Error ellipse: s-maj=331.4km s-min=87.8km az=82.0.
ISC V 11 15 59 09.7–.31 17.46S–.07 172.49W–.06 21 5.0b,4.2s 434 4-173
IDC V 11 15 59 06.4–.45 17.60S 172.65W 0 4.8,4.7 **¶16505632**
ISCJB V 11 15 59 08.9–.21 17.46S–.05 172.49W–.04 21 5.0b,4.3s
NEIC V 11 15 59 09.0–4.2 17.49S 172.57W 15–25 5.1b,4.3s
GCMT V 11 15 59 09.0–.30 17.57S 172.33W 19–1 4.9W,4.3s
BJI V 11 15 59 10.9 17.31S 172.05W 40 5.4b,5.1b
MOS V 11 15 59 14.9–1.6 16.43S 172.72W 33 5.2b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=13.1km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=153.6.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=4.9km az=150.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c25; s71,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.80±.18 $M_{\theta\theta}$0.61±.11; $M_{\phi\phi}$2.18±.12; $M_{r\theta}$-0.74±.30; $M_{\theta\phi}$-0.24±.08; $M_{\phi r}$0.20±.22; Best double couple: NP1:ϕ_s160.00000°,δ50.00000° ,λ-105.00000°. NP2:ϕ_s2.00000°,δ42.00000°,λ-73.00000°. Principal axes: T 2.2350,Plg4.0000°,Azm260.0000°; N 0.7160,Plg11.0000°,Azm169.0000° ; P -2.9560,Plg78.0000°,Azm8.0000° $M_0$2.59600×10^{16}
MOS Error ellipse: s-maj=11.6km s-min=8.8km az=71.2.
ISC V 12 07 39 33.8–.27 17.45S–.06 172.45W–.05 21 5.0b,4.2s 625 4-173
IDC V 12 07 39 30.7–.45 17.47S 172.48W 0 4.9,4.8 **¶16506399**
BJI V 12 07 39 32.1 16.96S 172.56W 7 5.4b,5.3b
ISCJB V 12 07 39 32.8–.15 17.39S–.04 172.54W–.04 21 5.0b,4.3s
GCMT V 12 07 39 36.2–.40 17.47S 172.20W 22–1 4.9W,4.3s
NEIC V 12 07 39 36.1–.14 17.48S 172.48W 35 5.0b,4.3s
MOS V 12 07 39 38.8–1.4 16.44S 172.50W 33 5.2b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.9km az=143.0.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s62,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.80±.22 $M_{\theta\theta}$0.78±.14; $M_{\phi\phi}$2.02±.13; $M_{r\theta}$-0.37±.24; $M_{\theta\phi}$0.41±.06; $M_{\phi r}$-0.58±.19; Best double couple: NP1:ϕ_s20.00000°,δ53.00000° ,λ-86.00000°. NP2:ϕ_s194.00000°,δ38.00000°,λ-95.00000°. Principal axes: T 2.2310,Plg8.0000°,Azm108.0000°; N 0.6670,Plg3.0000°,Azm198.0000° ; P -2.8960,Plg82.0000°,Azm309.0000° $M_0$2.56400×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.8km az=141.0.
MOS Error ellipse: s-maj=12.8km s-min=7.8km az=75.1.
IDC V 16 10 09 32.4–52 22.04S 175.64W 0 3.8,3.6

¶17203742

IDC Error ellipse: s-maj=978.5km s-min=169.2km az=86.0.
ISC V 20 02 07 14.4–.64 22.7S–.20 175.4W–.20 34 3.9b 20 8-153
IDC V 20 02 07 08.5–.87 23.01S 175.14W 0 4.2,4.0 **¶16591595**
ISCJB V 20 02 07 13.1–.59 22.7S–.20 175.4W–.10 34 4.0b,4.0
NEIC V 20 02 07 24.1–2.7 22.74S 175.45W 118–22 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=47.3km s-min=18.6km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=26.4km s-min=15.4km az=148.6.
NEIC Event type se. Error ellipse: s-maj=23.0km s-min=13.8km az=137.0.
ISC V 26 02 10 30.6–.61 17.83S–.05 172.06W–.05 31–3 5.2b,4.7s 718 9-175
IDC V 26 02 10 26.2–.39 17.78S 172.06W 0 6.2L,4.9 **¶16545955**
ISCJB V 26 02 10 29.8–.14 17.74S–.04 172.11W–.03 33 5.1b,4.7s
GCMT V 26 02 10 30.7–.10 17.83S 171.78W 12 5.4W,4.7s
NEIC V 26 02 10 30.7–3.0 17.68S 172.22W 28–20 5.2b,4.7s
BJI V 26 02 10 31.3 17.06S 171.89W 29 5.6b,5.1b
MOS V 26 02 10 32.2–1.8 17.54S 172.22W 41 5.2b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.3km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=151.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c140; s116,c211; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$-0.74±.03; $M_{\phi\phi}$1.82±.02; $M_{r\theta}$-0.11±.07; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$0.50±.05; Best double couple: NP1:ϕ_s167.00000°,δ55.00000° ,λ-100.00000°. NP2:ϕ_s5.00000°,δ36.00000°,λ-75.00000°. Principal axes: T 1.9300,Plg10.0000°,Azm264.0000°; N -0.7590,Plg9.0000°,Azm173.0000° ; P -1.1740,Plg77.0000°,Azm42.0000° $M_0$1.55200×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=145.0.
MOS Error ellipse: s-maj=9.0km s-min=7.6km az=56.5.
ISC VI 08 21 07 28.5–.40 22.95S–.07 174.55W–.09 36 4.8b,3.3s 137 7-162
IDC VI 08 21 07 22.5–.64 22.94S 174.43W 0 4.6,4.4 **¶16578093**
NEIC VI 08 21 07 25.9–4.0 23.00S 174.50W 21–28 4.9b,4.4
ISCJB VI 08 21 07 26.5–.23 23.05S–.05 174.55W–.06 36 4.8b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 14 04 24 25.3–.52 17.2S–.10 172.7W–.10 17 4.4b,4.2s 63 3-173
IDC VI 14 04 24 22.0–.82 17.15S 172.85W 0 4.5,4.3 **¶16603689**
NEIC VI 14 04 24 27.3–.48 17.16S 172.70W 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=34.9km s-min=20.1km az=149.0.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=12.2km az=133.0.
ISC VI 15 08 48 33.4–1.0 17.4S–.10 171.7W–.10 35 3.9b 8 3-149
IDC VI 15 08 48 28.5–1.1 17.56S 171.84W 0 4.2,4.0 **¶17206173**
ISCJB VI 15 08 48 30.8–.96 17.6S–.10 171.7W–.10 33 3.9b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 18 16 52 40.6–26 23.35S 174.49W 0 4.1,4.0

¶17206473

IDC Error ellipse: s-maj=474.6km s-min=146.7km az=78.0.
IDC VI 21 10 58 50.4–26 22.60S 173.13W 0 4.4,4.3

¶17206672

IDC Error ellipse: s-maj=486.7km s-min=152.6km az=76.0.
ISC VI 30 04 29 49.7–.45 23.70S–.08 175.9W–.10 33 4.7b 89 6-169
IDC VI 30 04 29 44.4–.59 23.26S 175.99W 0 4.6,4.5 **¶602897846**
ISCJB VI 30 04 29 48.0–.36 23.56S–.07 176.00W–.08 33 4.6b,4.5
NEIC VI 30 04 29 49.4–.26 23.53S 175.92W 35 4.8b,4.5
BJI VI 30 04 29 51.1 23.07S 175.35W 51 5.4b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=18.7km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=9.0km az=37.8.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.7km az=132.0.
ISC VI 30 04 30 52.9–.27 23.53S–.05 175.66W–.05 30 5.4s,5.1b 517 6-179
BJI VI 30 04 30 48.9 23.23S 175.59W 10 5.7b,5.4s **¶602918842**
IDC VI 30 04 30 48.3–.51 23.37S 175.85W 0 5.0,5.0L
ISCJB VI 30 04 30 52.0–.15 23.58S–.04 175.82W–.03 30 5.3s,5.0b
NEIC VI 30 04 30 53.0–.00 23.20S 175.30W 25 5.3s,5.0b
MOS VI 30 04 30 53.0–1.1 23.47S 175.95W 33 5.3s,5.2b
NEIC VI 30 04 30 54.1–.18 23.48S 175.91W 35 5.6W,5.4s
GCMT VI 30 04 30 54.1–.10 23.64S 175.27W 26–0 5.7W,5.4s
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=14.4km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=150.8.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}2.73 $M_{\theta\theta}$-0.02 $M_{\phi\phi}$-2.70 $M_{r\theta}$0.06 $M_{\theta\phi}$-1.35 $M_{\phi r}$-0.56 Best double couple: NP1:ϕ_s196.00000° ,δ50.00000°,λ81.00000°. NP2:ϕ_s30.00000°,δ41.00000°,λ100.00000°. Principal axes: T 2.8000,Plg81.0000°,Azm56.0000°; N 0.5100,Plg6.0000°,Azm201.0000° ; P -3.3100,Plg4.0000°,Azm292.0000° $M_0$3.10000×10^{17}
MOS Error ellipse: s-maj=11.9km s-min=9.2km az=73.1.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.7km az=141.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c222; s129,c303;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.80±.04 $M_{\theta\theta}$-0.35±.03; $M_{\phi\phi}$-2.45±.03; $M_{r\theta}$1.18±.07; $M_{\theta\phi}$-1.10±.02; $M_{\phi r}$2.03±.07; Best double couple: NP1:ϕ_s28.00000° ,δ65.00000°,λ94.00000°. NP2:ϕ_s198.00000°,δ26.00000°,λ82.00000°. Principal axes: T 3.6500,Plg70.0000°,Azm306.0000°; N 0.1000,Plg4.0000°,Azm206.0000° ; P -3.7530,Plg20.0000°,Azm115.0000° $M_0$3.70100×10^{17}
ISC VI 30 09 09 17.8–.41 23.61S–.04 175.78W–.04 35–1 5.5s,5.4b 1091 6-179
IDC VI 30 09 09 12.2–.42 23.55S 175.79W 0 5.3s,5.3 **¶16721036**
ISCJB VI 30 09 09 16.4–.12 23.57S–.04 175.84W–.03 33 5.5s,5.4b
BJI VI 30 09 09 16.0 23.22S 175.67W 26 5.8b,5.6s
NEIC VI 30 09 09 17.0–.00 23.06S 175.47W 13 5.8b,5.6s
MOS VI 30 09 09 17.3–1.2 23.44S 175.95W 33 5.7b,5.4s
NEIC VI 30 09 09 18.3–.16 23.54S 175.85W 35 5.7W,5.5b
GCMT VI 30 09 09 24.2–.10 23.66S 175.33W 27–0 5.8W,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=14.1km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=2.9km az=156.6.
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{17}Nm; M_{rr}3.76 $M_{\theta\theta}$-0.06 $M_{\phi\phi}$-3.70 $M_{r\theta}$2.19 $M_{\theta\phi}$-1.24 $M_{\phi r}$2.56 Best double couple: NP1:ϕ_s32.00000° ,δ66.00000°,λ103.00000°. NP2:ϕ_s182.00000°,δ28.00000°,λ63.00000°. Principal axes: T 5.1600,Plg66.0000°,Azm326.0000°; N 0.0200,Plg12.0000°,Azm206.0000° ; P -5.1800,Plg19.0000°,Azm112.0000° $M_0$5.20000×10^{17}
MOS Error ellipse: s-maj=9.7km s-min=7.5km az=76.8.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=150.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c251; s131,c361;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}4.11±.04 $M_{\theta\theta}$-0.44±.03; $M_{\phi\phi}$-3.67±.03; $M_{r\theta}$1.40±.08; $M_{\theta\phi}$-1.54±.03; $M_{\phi r}$2.78±.07; Best double couple: NP1:ϕ_s25.00000° ,δ63.00000°,λ93.00000°. NP2:ϕ_s199.00000°,δ27.00000°,λ84.00000°. Principal axes: T 5.1440,Plg72.0000°,Azm301.0000°; N 0.1640,Plg2.0000°,Azm204.0000° ; P -5.3090,Plg18.0000°,Azm113.0000° $M_0$5.22700×10^{17}
ISC VI 30 09 47 08.2–.32 23.73S–.07 175.70W–.06 30 5.0b,4.9s 251 7-169
IDC VI 30 09 47 03.9–.48 23.48S 175.84W 0 4.8,4.8 **¶16692830**
BJI VI 30 09 47 04.1 22.63S 175.27W 2 5.8b,5.4s
ISCJB VI 30 09 47 06.9–.19 23.71S–.06 175.75W–.04 30 4.9s,4.9b
NEIC VI 30 09 47 09.1–.37 23.57S 175.88W 35 5.0b,4.9b
GCMT VI 30 09 47 09.1–.10 23.71S 175.32W 26–0 5.5W,4.9b
MOS VI 30 09 47 12.5–3.0 23.69S 176.69W 33 5.4b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=14.7km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=4.5km az=161.2.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.6km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s100,c172; s117,c201; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.73±.04 $M_{\theta\theta}$-0.40±.02; $M_{\phi\phi}$-1.33±.02; $M_{r\theta}$0.58±.05; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$0.95±.04; Best double couple: NP1:ϕ_s28.00000°,δ62.00000° ,λ93.00000°. NP2:ϕ_s201.00000°,δ28.00000°,λ84.00000°. Principal axes: T 2.0770,Plg73.0000°,Azm306.0000°; N -0.1730,Plg3.0000°,Azm206.0000° ; P -1.8990,Plg17.0000°,Azm115.0000° $M_0$1.98800×10^{17}
MOS Error ellipse: s-maj=15.2km s-min=11.2km az=43.3.
ISC VI 30 14 16 18.4–.35 23.47S–.06 175.88W–.06 33 4.9b,4.3s 206 6-169
IDC VI 30 14 16 13.6–.57 23.47S 175.89W 0 4.8,4.7b **¶16721038**
ISCJB VI 30 14 16 16.7–.25 23.52S–.06 175.83W–.05 33 4.8b,4.2s

BJI VI 30 14 16 17.3 23.68S 175.48W 45 5.6b,5.2b
GCMT VI 30 14 16 18.8–.40 23.79S 175.17W 21–1 5.0W,5.2b
NEIC VI 30 14 16 18.8–.35 23.27S 176.05W 35 5.0b,5.2b
MOS VI 30 14 16 25.5–2.9 21.94S 176.90W 33 5.2b,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=15.7km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.8km az=147.9.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c47; s66,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.95±.17 $M_{\theta\theta}$-1.40±.14; $M_{\phi\phi}$-1.56±.11; $M_{r\theta}$0.80±.20; $M_{\theta\phi}$-0.72±.07; $M_{\phi r}$2.25±.19; Best double couple: NP1:ϕ_s28.00000°,δ66.00000° ,λ83.00000°. NP2:ϕ_s226.00000°,δ25.00000°,λ106.00000°. Principal axes: T 3.9220,Plg68.0000°,Azm284.0000°; N -0.8640,Plg7.0000°,Azm31.0000° ; P -3.0680,Plg21.0000°,Azm123.0000° $M_0$3.49500×10^{16}
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.5km az=135.0.
MOS Error ellipse: s-maj=14.1km s-min=12.4km az=113.4.
IDC VI 30 14 46 37.4–5.5 17.16S 172.81W 0 3.9,3.7
¶17207261
IDC Error ellipse: s-maj=224.0km s-min=62.3km az=137.0.

(175) South of Tonga Islands.

ISC I 08 16 33 35.0–.97 24.1S–.10 175.3W–.10 19 4.2b,3.2s 11 11-151
ISCJB I 08 16 33 30.8–1.0 24.3S–.20 175.3W–.10 19 4.0b,3.2s **¶17189709**
IDC I 08 16 33 30.8–1.9 24.44S 175.45W 0 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.5km s-min=13.7km az=157.6.
IDC Error ellipse: s-maj=64.1km s-min=26.9km az=149.0.
IDC I 25 11 52 56.3–41 24.13S 173.49W 0 4.1,3.9
¶17190960
IDC Error ellipse: s-maj=781.4km s-min=173.4km az=89.0.
ISC II 06 07 38 08.8–1.2 24.6S–.10 175.6W–.20 30–4 4.1b,3.1s 23 11-151
NEIC II 06 07 38 08.2–2.9 24.64S 175.52W 28–22 4.0b,3.1s **¶16339714**
IDC II 06 07 38 09.7–1.5 24.79S 175.45W 41–5 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=9.7km az=124.0.
IDC Error ellipse: s-maj=48.9km s-min=23.4km az=146.0.
ISC III 27 17 17 04.2–4.3 25.0S–.30 175.1W–.60 35 4.7b 12 18-94
IDC III 27 17 16 57.3–17 23.88S 174.98W 0 4.8,4.6 **¶16459617**
NEIC III 27 17 17 04.4–2.9 24.96S 175.12W 35 4.5b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=316.2km s-min=124.9km az=83.0.
NEIC Event type se. Error ellipse: s-maj=55.1km s-min=24.7km az=78.0.
ISC IV 29 22 23 48.4–.88 24.4S–.20 173.8W–.10 35 4.3b 10 13-152
IDC IV 29 22 23 43.9–2.3 24.17S 174.01W 0 4.3,4.2 **¶16577916**
ISCJB IV 29 22 23 45.7–.85 24.3S–.20 173.8W–.10 33 4.7b,4.2
NEIC IV 29 22 23 48.5–.68 24.36S 173.85W 35 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=162.8km s-min=33.2km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=28.4km s-min=15.1km az=161.4.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=14.3km az=159.0.
ISC V 18 21 39 45.1–.54 25.35S–.04 175.92W–.05 49–4 5.4b,4.9s 573 4-177
IDC V 18 21 39 38.1–.45 25.15S 175.94W 0 5.9L,5.1 **¶16560100**
BJI V 18 21 39 40.7 24.76S 175.45W 25 5.6b,5.3b
ISCJB V 18 21 39 41.1–.17 25.54S–.03 175.93W–.04 33 5.4b,4.8s
MOS V 18 21 39 43.7–1.2 25.15S 176.05W 42 5.3b,4.8s
GCMT V 18 21 39 46.2–.10 25.18S 175.53W 43–1 5.4W,4.8s
NEIC V 18 21 39 46.2–1.6 25.21S 176.01W 58–14 5.3b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.5km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.5km az=28.6.
MOS Error ellipse: s-maj=9.9km s-min=8.1km az=100.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c163; s125,c215; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50±.02 $M_{\theta\theta}$0.29±.02; $M_{\phi\phi}$-0.78±.02; $M_{r\theta}$-0.30±.02; $M_{\theta\phi}$-0.75±.02; $M_{\phi r}$1.24±.03; Best double couple: NP1:ϕ_s351.00000°,δ79.00000° ,λ57.00000°. NP2:ϕ_s245.00000°,δ34.00000°,λ161.00000°. Principal axes: T 1.5970,Plg46.0000°,Azm228.0000°; N 0.0750,Plg32.0000°,Azm358.0000° ; P -1.6720,Plg27.0000°,Azm107.0000° $M_0$1.63500×10^{17}
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=156.0.
ISC V 20 22 55 58.7–.71 25.4S–.10 175.3W–.10 23 4.2b 14 4-152
ISCJB V 20 22 55 57.0–.64 25.4S–.10 175.3W–.10 23 4.1b **¶16591603**
IDC V 20 22 55 56.2–1.9 25.11S 175.47W 0 4.3,4.2
NEIC V 20 22 56 00.4–.73 25.51S 175.25W 35 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.4km s-min=13.5km az=136.5.
IDC Error ellipse: s-maj=75.6km s-min=29.7km az=164.0.
NEIC Event type se. Error ellipse: s-maj=25.4km s-min=15.5km az=140.0.
IDC V 20 22 56 47.4–2.3 25.34S 175.58W 0 4.5,4.3
¶17204093
IDC Error ellipse: s-maj=110.0km s-min=28.0km az=161.0.
IDC VI 23 19 52 34.3–27 24.36S 174.78W 0 4.4,4.2
¶17206829
IDC Error ellipse: s-maj=498.1km s-min=145.8km az=80.0.
IDC VI 30 09 50 43.5–7.4 24.04S 175.53W 0 4.3,4.0
¶17207248
IDC Error ellipse: s-maj=304.9km s-min=37.5km az=149.0.

(176) North of New Zealand.

ISC I 30 00 45 03.1–1.3 34.70S–.09 177.9E–.10 150 3.9b 56 3-158
IDC I 30 00 44 59.2–5.6 34.53S 179.22E 173–43 4.1,3.7 **¶17191277**
ISCJB I 30 00 45 01.7–.90 34.67S–.05 177.7E–.10 150 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 09 22 53 41.6–54 29.93S 177.90E 0 3.9,3.8
¶17191973
IDC Error ellipse: s-maj=958.4km s-min=158.1km az=96.0.
WEL III 08 08 54 36.5–.53 34.72S 177.93E 33 4.0L
¶600710944
WEL Event type ke. Error ellipse: s-maj=11.2km s-min=3.5km az=90.0.
ISC IV 04 18 03 58.6–1.5 31.28S–.07 176.7E–.20 35 3.9b 26 7-40
IDC IV 04 18 03 42.3–14 30.13S 178.07E 0 4.3L,4.1 **¶17199798**
ISC Event type ke.
IDC Error ellipse: s-maj=274.3km s-min=43.7km az=64.0.

(177) Kermadec Islands region.

IDC I 01 23 41 49.3–2.6 27.14S 179.36E 487–32 4.5,3.6
¶17189169
IDC Error ellipse: s-maj=38.9km s-min=22.0km az=154.0.
ISC I 02 05 30 31.6–.95 30.93S–.07 176.8W–.10 35 4.0b 21 2-162
IDC I 02 05 30 26.6–1.0 31.05S 176.59W 0 4.3L,4.2 **¶17189186**
ISCJB I 02 05 30 29.6–.80 31.02S–.04 176.8W–.10 33 3.8b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 03 16 33 35.2–1.3 28.9S–.10 178.5W–.20 350 3.3b 18 1-164
IDC I 03 16 33 33.0–2.2 28.19S 178.48W 339–12 4.0,3.4 **¶17189341**
ISCJB I 03 16 33 33.3–1.0 28.81S–.07 178.6W–.20 350 3.2b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC I 04 02 58 49.1–1.7 31.13S–.09 179.4W–.20 250 3.7b 23 7-162
IDC I 04 02 58 46.7–6.1 30.84S 179.14W 237–51 4.1,3.6 **¶17189383**
ISC Event type ke.
IDC Error ellipse: s-maj=51.3km s-min=25.9km az=32.0.
IDC I 06 13 14 28.7–7.5 31.02S 179.23W 0 3.6,3.4
¶17189596
IDC Error ellipse: s-maj=306.5km s-min=62.1km az=157.0.
ISC I 08 03 49 48.7–.91 31.07S–.08 178.5W–.20 87 4.7b 36 2-162
ISCJB I 08 03 49 47.7–.83 31.07S–.05 178.4W–.20 87 4.6b **¶15998076**
NEIC I 08 03 49 48.5–1.1 31.01S 178.25W 89–9 4.7b
IDC I 08 03 49 49.3–1.5 31.03S 178.31W 94–11 4.6,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.9km s-min=5.3km az=12.6.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=11.7km az=120.0.
IDC Error ellipse: s-maj=28.0km s-min=12.0km az=116.0.
IDC I 08 04 56 25.5–2.2 31.33S 177.92W 0 3.6,3.5
¶17189671
IDC Error ellipse: s-maj=65.6km s-min=42.7km az=43.0.
ISC I 09 18 59 03.6–1.1 31.11S–.07 176.8W–.20 10 4.1b 23 2-162
ISCJB I 09 18 59 01.7–1.2 31.20S–.04 176.9W–.20 10 4.0b **¶17189786**
IDC I 09 18 59 02.6–1.1 30.97S 176.65W 0 4.3,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=5.4km az=8.7.
IDC Error ellipse: s-maj=27.9km s-min=25.3km az=98.0.
ISC I 10 09 23 22.2–2.2 31.0S–.10 179.9W–.30 400 23 7-145
IDC I 10 09 23 20.9–8.4 30.95S 179.73W 394–98 3.9,3.4 **¶17189833**
ISCJB I 10 09 23 21.3–1.7 30.90S–.09 179.9W–.30 400 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC I 12 10 35 10.1–4.6 30.97S 179.31W 0 4.1,3.8
¶17189988
IDC Error ellipse: s-maj=252.2km s-min=38.7km az=163.0.
ISC I 13 18 56 45.3–.40 31.42S–.05 178.1W–.10 35 4.6b 116 2-170
ISCJB I 13 18 56 43.4–.49 31.69S–.04 178.1W–.10 33 4.7b **¶16019210**
IDC I 13 18 56 47.7–2.1 31.22S 177.99W 53–17 4.7,4.6
NEIC I 13 18 56 47.3–1.4 31.25S 177.97W 53–12 4.8b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=4.3km az=18.9.
IDC Error ellipse: s-maj=18.6km s-min=12.9km az=106.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.5km az=130.0.
ISC I 17 19 45 15.2–.90 31.75S–.08 178.5W–.20 61 4.8b 40 3-161
NEIC I 17 19 45 18.1–2.3 31.53S 178.43W 90–20 4.7b **¶16019230**
IDC I 17 19 45 19.7–3.5 31.61S 178.54W 100–25 4.9,4.7
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=28.7km s-min=19.3km az=162.0.
IDC Error ellipse: s-maj=37.0km s-min=30.1km az=21.0.
ISC I 18 10 12 48.6–1.3 30.24S–.09 179.9E–.30 300 48 8-151
ISCJB I 18 10 12 48.3–1.7 30.23S–.09 179.8E–.30 300 2.7b **¶17190477**
IDC I 18 10 12 49.5–8.1 30.37S 179.48W 341–81 3.3,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.7km s-min=11.1km az=171.0.
IDC Error ellipse: s-maj=82.5km s-min=33.4km az=10.0.
IDC I 19 01 51 27.5–7.5 30.64S 179.22W 0 4.2,3.9
¶17190520
IDC Error ellipse: s-maj=314.6km s-min=54.9km az=157.0.
ISC I 19 19 21 05.1–.80 28.60S–.09 178.1W–.20 300 3.5b 33 1-165
ISCJB I 19 19 21 03.0–.60 28.59S–.05 177.9W–.20 300 3.5b **¶17190575**
IDC I 19 19 21 06.0–.78 27.94S 178.50W 270–6 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=4.8km az=15.8.
IDC Error ellipse: s-maj=20.6km s-min=16.8km az=75.0.
ISC I 20 17 56 25.9–2.4 30.11S–.09 176.6W–.20 35 16 1-145
IDC I 20 17 56 34.4–2.3 30.12S 177.76W 97–13 3.8,3.5 **¶17190636**
ISC Event type ke.
IDC Error ellipse: s-maj=54.9km s-min=25.7km az=98.0.
ISC I 22 01 12 29.0–.87 29.0S–.10 177.0W–.10 35 4.0b 17 1-164
IDC I 22 01 12 30.2–2.6 28.67S 177.19W 50–24 4.0,4.0 **¶16019249**
ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=27.3km az=161.0.
ISC I 22 22 47 31.0–.78 31.21S–.07 180.0W–.20 377 3.7b 57 3-162
IDC I 22 22 47 30.8–3.8 30.90S 179.86W 375–35 4.3,3.6 **¶16019251**
ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=24.7km az=21.0.
IDC I 23 06 25 23.9–5.1 29.73S 179.43W 0 3.9,3.6
¶17190780
IDC Error ellipse: s-maj=233.4km s-min=80.7km az=166.0.
IDC I 24 12 45 30.6–11 27.04S 177.16W 0 4.3,4.2
¶17190890
IDC Error ellipse: s-maj=208.2km s-min=33.5km az=80.0.
ISC I 24 15 54 24.6–.56 27.26S–.08 177.1W–.10 50 4.0b,3.8s 33 2-166
ISCJB I 24 15 54 23.5–.56 27.36S–.06 177.2W–.10 50 4.0b,3.8s **¶15990753**
IDC I 24 15 54 29.5–.84 26.97S 177.21W 91–7 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=6.7km az=18.2.
IDC Error ellipse: s-maj=24.0km s-min=15.1km az=157.0.
IDC I 30 04 11 09.6–5.0 30.17S 179.81E 0 4.0,3.8
¶17191290
IDC Error ellipse: s-maj=291.5km s-min=34.3km az=163.0.
ISC II 01 17 43 43.8–.57 28.0S–.10 176.4W–.10 37 4.3b 32 2-165
IDC II 01 17 43 38.3–.70 28.11S 176.46W 0 4.4,4.2 **¶16168788**
NEIC II 01 17 43 43.8–.36 28.06S 176.54W 35 5.0b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=28.7km s-min=20.5km az=160.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=10.5km az=115.0.
IDC II 03 14 25 02.7–8.1 30.97S 178.55E 319–261 3.8,3.3
¶17191597
IDC Error ellipse: s-maj=359.1km s-min=83.7km az=110.0.
ISC II 07 11 40 42.0–1.1 31.73S–.08 179.5E–.20 450 69 6-151
IDC II 07 11 40 38.3–3.8 31.30S 179.86E 393–37 4.1,3.3 **¶17191857**
ISC Event type ke.
IDC Error ellipse: s-maj=47.8km s-min=30.1km az=19.0.
ISC II 08 06 13 36.5–2.3 31.43S–.09 177.4W–.30 26 4.1b 23 2-146
ISCJB II 08 06 13 33.0–1.5 31.52S–.05 177.3W–.30 26 4.0b **¶17191888**
IDC II 08 06 13 34.0–3.3 31.40S 177.45W 0 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.2km s-min=5.3km az=10.7.
IDC Error ellipse: s-maj=72.1km s-min=29.1km az=111.0.
ISC II 09 13 51 41.1–1.1 31.28S–.06 177.5W–.20 27 4.3b 30 2-162
IDC II 09 13 51 37.4–1.2 31.21S 177.38W 0 4.4,4.3 **¶16032007**
NEIC II 09 13 51 43.0–.78 30.98S 177.44W 35 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=25.9km az=111.0.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=15.6km az=120.0.
ISC II 09 20 34 46.9–.76 31.19S–.07 177.7W–.10 27 4.4b 28 2-162
IDC II 09 20 34 42.9–.95 31.15S 177.58W 0 4.4,4.3b **¶16168825**
ISCJB II 09 20 34 45.7–1.0 31.34S–.06 177.8W–.20 27 4.4b,4.3b
NEIC II 09 20 34 48.0–.55 31.17S 177.66W 35 4.7b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=20.6km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=20.9km s-min=7.2km az=13.9.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.6km az=120.0.
IDC II 09 20 44 38.8–3.0 31.12S 177.67W 0 4.0,3.8
¶17191959
IDC Error ellipse: s-maj=68.3km s-min=25.1km az=106.0.
ISC II 09 21 23 28.9–.52 31.40S–.06 177.6W–.10 26 5.0b,4.4s 125 2-163
IDC II 09 21 23 25.3–.72 31.15S 177.60W 0 4.7,4.5 **¶16029778**
ISCJB II 09 21 23 27.4–.53 31.61S–.03 177.62W–.09 26 4.9b,4.3s
NEIC II 09 21 23 28.6–3.3 31.09S 177.66W 21–21 4.9b,4.3s
GCMT II 09 21 23 28.6–.40 30.98S 177.44W 24–1 5.0W,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=18.6km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=4.0km az=15.5.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=9.7km az=134.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c44; s66,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.78±.28 $M_{\theta\theta}$-0.15±.20; $M_{\phi\phi}$-3.63±.18; $M_{r\theta}$0.20±.37; $M_{\theta\phi}$-0.67±.14; $M_{\phi r}$1.96±.22; Best double couple: NP1:ϕ_s8.00000°,δ59.00000° ,λ88.00000°. NP2:ϕ_s193.00000°,δ31.00000°,λ94.00000°. Principal axes: T 4.2670,Plg76.0000°,Azm272.0000°; N -0.0290,Plg2.0000°,Azm10.0000° ; P -4.2360,Plg14.0000°,Azm100.0000° $M_0$4.25100×10^{16}
IDC II 09 21 29 14.7–3.4 31.09S 177.94W 0 4.1,3.9
¶17191965
IDC Error ellipse: s-maj=77.7km s-min=24.6km az=118.0.
ISC II 09 21 32 45.7–1.2 31.2S–.10 177.7W–.20 26 4.0b 8 2-162

IDC II 09 21 32 41.3–1.3 31.47S 177.58W 0 4.3,4.3L ¶17191966
ISCJB II 09 21 32 45.0–1.7 31.2S–.10 177.8W–.30 26 3.9b,4.3L
ISC Event type ke.
ISCJB Event type ke.
ISC II 09 22 44 39.6–1.0 31.25S–.08 177.7W–.20 27 4.6b 20 2-162
IDC II 09 22 44 35.6–1.1 31.06S 177.54W 0 4.5,4.5L ¶16168828
ISCJB II 09 22 44 37.8–1.6 31.29S–.06 177.7W–.30 27 4.5b,4.5L
NEIC II 09 22 44 40.6–.60 30.99S 177.55W 35 4.6b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=34.0km s-min=23.4km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=31.5km s-min=8.0km az=8.5.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=10.9km az=100.0.
IDC II 10 00 20 25.8–6.9 29.55S 179.08E 0 4.0,3.7
¶17191979
IDC Error ellipse: s-maj=271.4km s-min=43.5km az=154.0.
IDC II 10 00 58 05.8–7.7 31.32S 177.47W 0 3.8,3.6
¶17191982
IDC Error ellipse: s-maj=341.1km s-min=56.2km az=157.0.
IDC II 10 01 57 16.8–9.3 29.22S 178.85E 0 3.9,3.7
¶17191987
IDC Error ellipse: s-maj=261.0km s-min=82.4km az=144.0.
ISC II 10 03 24 47.2–1.9 31.0S–.10 178.4W–.30 87 4.0b 14 7-162
IDC II 10 03 24 46.6–8.0 30.96S 178.38W 82–64 4.1,4.0 ¶17191989
ISC Event type ke.
IDC Error ellipse: s-maj=54.2km s-min=34.9km az=40.0.
IDC II 10 03 46 51.0–1.9 31.13S 177.54W 0 4.1,3.9
¶17191990
IDC Error ellipse: s-maj=44.8km s-min=42.7km az=43.0.
IDC II 10 18 44 51.1–7.6 31.45S 177.53W 0 3.8,3.6
¶17192029
IDC Error ellipse: s-maj=334.9km s-min=61.9km az=157.0.
ISC II 10 18 54 27.6–.56 31.47S–.07 177.6W–.10 26 4.8b,3.8s 96 2-163
IDC II 10 18 54 23.2–.71 31.31S 177.47W 0 4.7,4.5 ¶17192030
ISCJB II 10 18 54 25.1–.55 31.54S–.04 177.5W–.10 26 4.7b,3.9s
NEIC II 10 18 54 27.9–6.4 31.40S 177.45W 32–44 4.9b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=20.5km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=3.9km az=18.8.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=13.3km az=201.0.
ISC II 10 22 56 49.7–1.4 31.0S–.30 177.6W–.20 27 4.2b 11 23-146
IDC II 10 22 56 46.6–3.3 30.71S 177.68W 0 4.0,3.8 ¶16269129
ISCJB II 10 22 56 48.3–1.4 31.1S–.30 177.6W–.20 27 4.2b,3.8
NEIC II 10 22 56 51.1–.84 31.02S 177.60W 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=186.3km s-min=45.3km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=41.4km s-min=19.6km az=157.0.
NEIC Event type se. Error ellipse: s-maj=27.6km s-min=15.2km az=157.0.
IDC II 10 23 41 38.0–7.7 31.28S 177.60W 0 3.7,3.5
¶17192038
IDC Error ellipse: s-maj=340.5km s-min=56.2km az=157.0.
ISC II 12 01 33 55.3–.59 31.31S–.06 177.8W–.10 35 4.7b 90 2-162
ISCJB II 12 01 33 49.8–1.2 31.58S–.05 177.2W–.20 33 4.9b ¶16168837
IDC II 12 01 33 49.9–.67 31.07S 177.58W 0 4.7,4.6b
NEIC II 12 01 33 56.8–1.2 30.82S 177.66W 46–9 4.8b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.3km s-min=5.6km az=13.3.
IDC Error ellipse: s-maj=24.7km s-min=21.6km az=143.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=8.5km az=131.0.
ISC II 12 03 03 04.1–.23 31.23S–.03 177.70W–.04 10 5.6s,5.2b 616 2-174
ISCJB II 12 03 03 02.6–.11 31.52S–.02 177.78W–.03 10 5.5s,5.2b ¶16168839
IDC II 12 03 03 02.5–.37 31.09S 177.70W 0 5.2,5.2s
NEIC II 12 03 03 04.3–.13 31.24S 177.81W 10 5.7s,5.2b
GCMT II 12 03 03 04.3–.20 31.11S 177.40W 21–0 5.6W,5.2b
BJI II 12 03 03 05.3 30.66S 177.20W 22 5.9b,5.5s
MOS II 12 03 03 07.7–.90 31.12S 177.85W 38 5.5s,5.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.2km az=36.6.
IDC Error ellipse: s-maj=16.1km s-min=13.8km az=144.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.4km az=134.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s78,c116; s125,c239;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.21±.06 $M_{\theta\theta}$-0.14±.04; $M_{\phi\phi}$-2.07±.04; $M_{r\theta}$-0.18±.10; $M_{\theta\phi}$-0.33±.03; $M_{\phi r}$1.96±.09; Best double couple: NP1: ϕ_s360.00000°,δ66.00000°,λ83.00000°. NP2:ϕ_s198.00000°,δ25.00000°,λ106.00000°. Principal axes: T 2.9980,Plg68.0000°,Azm256.0000°; N -0.1440,Plg7.0000°,Azm3.0000° ; P -2.8530,Plg21.0000°,Azm95.0000° M_o2.92600×10^{17}
MOS Error ellipse: s-maj=11.1km s-min=9.3km az=78.4.
ISC II 12 04 16 07.1–1.0 31.18S–.08 178.7W–.20 87 4.5b 26 2-162
ISCJB II 12 04 16 06.5–.69 31.17S–.05 178.8W–.20 87 4.5b ¶16196683
NEIC II 12 04 16 06.7–1.4 31.16S 178.35W 101–13 4.5b
IDC II 12 04 16 07.5–1.6 31.18S 178.44W 102–14 4.4,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=5.1km az=16.3.
NEIC Event type se. Error ellipse: s-maj=31.1km s-min=16.0km az=109.0.
IDC Error ellipse: s-maj=37.3km s-min=13.1km az=111.0.
ISC II 12 09 48 02.8–.69 31.34S–.06 177.7W–.10 27 4.7b,4.1s 54 2-162
ISCJB II 12 09 47 58.4–1.0 31.39S–.04 177.2W–.20 33 4.5b,4.0s ¶16029788
NEIC II 12 09 48 00.8–.59 31.15S 177.40W 10 4.7b,4.0s
IDC II 12 09 48 00.0–.86 31.14S 177.54W 0 4.6,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=4.6km az=9.9.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.3km az=120.0.
IDC Error ellipse: s-maj=30.8km s-min=23.2km az=133.0.
ISC II 13 02 52 05.5–1.2 31.3S–.10 177.5W–.20 27 4.0b 12 8-162
IDC II 13 02 52 01.8–1.3 31.23S 177.51W 0 4.1,3.9 ¶16196687
ISCJB II 13 02 52 03.3–1.4 31.5S–.10 177.5W–.20 27 4.1b,3.9
NEIC II 13 02 52 03.1–.76 31.26S 177.52W 10 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=45.6km s-min=28.4km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=30.6km s-min=12.0km az=21.5.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=15.8km az=132.0.
ISC II 13 11 29 52.6–.84 31.33S–.07 177.7W–.20 10 4.4b 36 2-162
IDC II 13 11 29 51.2–.87 31.24S 177.69W 0 4.5,4.3 ¶16168848
NEIC II 13 11 29 52.4–.72 31.28S 177.57W 10 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=27.5km s-min=22.6km az=136.0.
NEIC Event type se. Error ellipse: s-maj=20.5km s-min=11.3km az=115.0.
ISC II 13 21 05 38.3–.77 31.7S–.10 177.4W–.20 26 4.3b 29 8-162
IDC II 13 21 05 34.4–1.0 31.30S 177.42W 0 4.3,4.1b ¶16398136
ISCJB II 13 21 05 36.7–.71 31.68S–.09 177.4W–.10 26 4.5b,3.5s
NEIC II 13 21 05 41.0–3.0 31.72S 177.34W 53–29 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=43.8km s-min=26.9km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=9.0km az=34.1.
NEIC Event type se. Error ellipse: s-maj=34.9km s-min=11.0km az=178.0.
ISC II 14 00 04 54.3–.72 30.29S–.07 179.7W–.10 362 4.0b 34 8-163
IDC II 14 00 04 09.2–1.3 29.39S 178.23W 0 4.3,4.1 ¶16168851
ISCJB II 14 00 04 53.9–.66 30.21S–.05 179.8W–.10 362 4.0b,4.1
NEIC II 14 00 05 00.4–2.1 29.94S 179.78W 420–22 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=59.7km s-min=34.9km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=6.1km az=8.4.
NEIC Event type se. Error ellipse: s-maj=23.0km s-min=10.7km az=162.0.
IDC II 14 12 03 54.8–40 30.91S 175.11W 0 3.8,3.7
¶17192238
IDC Error ellipse: s-maj=746.9km s-min=183.1km az=99.0.
IDC II 14 22 45 24.8–3.1 31.49S 177.48W 0 3.9,3.8
¶17192268
IDC Error ellipse: s-maj=73.4km s-min=36.8km az=116.0.
ISC II 15 04 02 51.2–1.5 31.9S–.10 178.9E–.20 400 3.4b 61 6-151
IDC II 15 04 02 45.9–6.6 31.79S 179.88E 398–71 4.1,3.4 ¶17192282
ISCJB II 15 04 02 49.3–1.0 31.82S–.07 179.2E–.20 400 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC II 16 20 44 49.0–7.7 28.07S 179.93W 427–72 3.9,3.2
¶17192383
IDC Error ellipse: s-maj=71.4km s-min=31.0km az=41.0.
IDC II 17 12 43 53.8–6.9 31.66S 178.87W 0 3.8,3.6
¶17192417
IDC Error ellipse: s-maj=297.0km s-min=56.8km az=158.0.
IDC II 18 07 58 18.0–3.0 31.97S 177.67W 0 4.1,3.9
¶17192465
IDC Error ellipse: s-maj=64.3km s-min=36.4km az=114.0.
IDC II 18 08 18 15.5–2.9 31.99S 177.90W 0 3.8,3.7
¶17192466
IDC Error ellipse: s-maj=69.1km s-min=35.5km az=118.0.
IDC II 18 19 24 11.1–2.9 31.85S 177.83W 0 4.0,3.9
¶17192499
IDC Error ellipse: s-maj=63.2km s-min=44.8km az=124.0.
IDC II 19 17 04 06.2–2.5 28.27S 178.03W 0 3.8,3.6
¶17192543
IDC Error ellipse: s-maj=59.9km s-min=20.1km az=66.0.
IDC II 19 20 34 00.8–1.5 28.32S 178.09W 0 4.0,3.8
¶16363000
IDC Error ellipse: s-maj=38.3km s-min=18.9km az=66.0.
IDC II 20 12 09 33.5–9.6 30.91S 179.11W 0 3.6,3.4
¶17192584
IDC Error ellipse: s-maj=419.1km s-min=56.0km az=157.0.
ISC II 20 17 58 46.9–.67 29.81S–.09 179.3W–.20 200 26 1-163
IDC II 20 17 58 47.2–1.4 29.84S 179.41W 198–18 4.1,3.8 ¶16168881
ISC Event type ke.
IDC Error ellipse: s-maj=58.4km s-min=18.3km az=108.0.
IDC II 22 04 35 24.5–5.7 31.03S 179.21W 0 4.2,4.0
¶17192676
IDC Error ellipse: s-maj=211.4km s-min=56.7km az=152.0.
ISC II 22 07 10 51.9–.56 30.85S–.08 179.1W–.10 200 4.6b 35 2-162
ISCJB II 22 07 10 51.3–.59 30.89S–.07 179.1W–.10 200 4.7b ¶16136354
NEIC II 22 07 10 52.3–.94 30.81S 178.99W 205–9 4.8b
IDC II 22 07 10 53.6–1.4 30.67S 179.04W 219–12 4.7,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=9.1km az=18.2.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=11.4km az=118.0.
IDC Error ellipse: s-maj=24.1km s-min=17.5km az=174.0.
IDC II 22 14 39 45.0–7.0 30.88S 176.83W 0 3.5,3.4
¶17192708
IDC Error ellipse: s-maj=297.6km s-min=58.7km az=156.0.
ISC II 23 03 02 21.0–.52 27.02S–.09 176.1W–.10 31 4.5b 42 3-166
IDC II 23 03 02 17.0–.79 27.03S 176.33W 0 5.1L,4.6 ¶16168907
ISCJB II 23 03 02 20.2–.57 26.95S–.07 176.3W–.10 33 4.5b,4.6
NEIC II 23 03 02 22.3–.43 27.04S 176.38W 35 4.7b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=19.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=8.6km az=23.9.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.7km az=127.0.
ISC II 24 17 12 58.8–2.8 28.3S–.10 178.2W–.40 35 9 10-150
IDC II 24 17 12 51.3–2.7 28.00S 177.79W 0 3.6,3.5 ¶17192800
ISC Event type ke.
IDC Error ellipse: s-maj=67.2km s-min=48.3km az=119.0.
ISC II 24 19 15 56.1–1.8 29.9S–.30 176.8W–.20 24 4.1b,3.8s 7 1-152
IDC II 24 19 15 53.0–1.6 29.93S 176.83W 0 4.3,4.1b ¶17192804
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=28.6km az=30.0.
IDC II 25 06 06 22.2–3.8 28.73S 177.61W 0 4.0,3.8
¶17192819
IDC Error ellipse: s-maj=74.9km s-min=21.6km az=95.0.
ISC II 25 10 41 56.9–.61 27.10S–.08 177.8W–.10 202 4.0b 36 2-166
NEIC II 25 10 41 53.8–.87 26.87S 177.71W 176–8 4.5b ¶16168923
IDC II 25 10 41 54.9–1.6 26.97S 177.77W 181–13 4.4,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.8km az=112.0.
IDC Error ellipse: s-maj=20.6km s-min=18.2km az=43.0.
IDC II 25 14 30 33.1–1.9 31.82S 179.13W 0 4.3,4.2b
¶17192841
IDC Error ellipse: s-maj=45.7km s-min=41.7km az=69.0.
IDC II 26 05 33 11.3–6.2 31.57S 179.54W 0 3.7,3.6
¶17192885
IDC Error ellipse: s-maj=248.0km s-min=61.9km az=158.0.
ISC II 26 16 48 24.7–1.8 31.0S–.10 179.9W–.20 377 44 7-145
ISCJB II 26 16 48 21.8–.00 30.87S–.06 179.7W–.20 377 2.7b ¶17192911
IDC II 26 16 48 23.4–9.1 30.98S 179.83W 361–103 3.5,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.4km s-min=8.1km az=7.5.
IDC Error ellipse: s-maj=105.2km s-min=41.6km az=3.0.
ISC II 28 05 45 38.0–1.1 31.42S–.09 179.9W–.20 400 44 6-162
IDC II 28 05 45 34.3–5.0 31.17S 179.83W 358–48 4.0,3.4 ¶16168946
ISCJB II 28 05 45 35.5–1.2 31.27S–.07 179.8W–.20 400 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 01 20 56 03.7–2.1 31.7S–.10 177.7W–.30 35 3.9b 11 2-153
IDC III 01 20 55 59.7–2.5 31.60S 178.14W 0 4.2,4.1L ¶16400352
NEIC III 01 20 56 09.0–2.2 31.14S 178.41W 60–11 4.1b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=66.2km s-min=28.0km az=123.0.
NEIC Event type se. Error ellipse: s-maj=52.6km s-min=12.3km az=130.0.
IDC III 01 21 32 11.9–2.6 31.67S 178.00W 0 4.3L,4.2
¶17193099
IDC Error ellipse: s-maj=64.1km s-min=28.8km az=120.0.
IDC III 02 03 51 28.8–8.4 30.72S 179.45W 0 4.1,3.8
¶17193106
IDC Error ellipse: s-maj=354.8km s-min=60.3km az=157.0.
IDC III 02 13 34 34.4–6.7 27.78S 179.35W 409–40 4.3,3.5
¶17193132
IDC Error ellipse: s-maj=85.1km s-min=27.6km az=47.0.
IDC III 05 03 41 48.5–2.0 31.36S 178.82W 0 4.0,3.8
¶17193264
IDC Error ellipse: s-maj=71.3km s-min=44.5km az=18.0.
ISC III 05 05 20 50.5–1.3 31.7S–.10 177.8W–.30 35 4.1b 11 2-162
ISCJB III 05 05 20 49.8–3.1 31.7S–.20 178.0W–.50 35 4.1b,3.8s ¶17193267
IDC III 05 05 20 56.2–4.8 31.69S 178.06W 77–35 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=64.8km s-min=12.0km az=19.1.
IDC Error ellipse: s-maj=54.7km s-min=25.9km az=148.0.
IDC III 05 09 39 04.2–7.0 31.20S 178.26W 0 3.8,3.6
¶17193276
IDC Error ellipse: s-maj=287.3km s-min=62.9km az=156.0.
IDC III 05 14 08 53.6–5.1 31.15S 178.42W 0 3.6,3.5
¶17193283
IDC Error ellipse: s-maj=131.3km s-min=31.6km az=133.0.
IDC III 05 14 37 07.2–5.8 31.56S 178.27W 0 3.8,3.6
¶17193285
IDC Error ellipse: s-maj=230.0km s-min=55.8km az=153.0.
ISC III 05 16 18 40.9–2.2 28.8S–.20 179.8W–.30 100 3.4b 22 9-150
IDC III 05 16 18 21.2–3.0 30.39S 178.41W 0 3.7,3.6 ¶17193293
ISC Event type ke.
IDC Error ellipse: s-maj=154.1km s-min=40.2km az=157.0.
IDC III 05 16 29 51.8–2.7 31.50S 178.16W 0 4.1L,4.0
¶17193294
IDC Error ellipse: s-maj=68.3km s-min=27.4km az=122.0.
IDC III 05 17 06 11.4–7.0 31.47S 177.97W 0 3.7,3.5
¶17193298
IDC Error ellipse: s-maj=301.5km s-min=59.4km az=158.0.
IDC III 05 17 28 48.5–3.9 31.61S 177.87W 0 3.8,3.6

¶17193299
IDC Error ellipse: s-maj=210.1km s-min=51.0km az=163.0.
IDC III 05 19 13 47.0–6.8 31.44S 178.09W 0 3.6,3.4
¶17193307
IDC Error ellipse: s-maj=294.7km s-min=56.2km az=157.0.
IDC III 06 13 36 42.2–7.6 28.05S 176.76W 0 3.7,3.6
¶17193353
IDC Error ellipse: s-maj=145.5km s-min=35.8km az=104.0.
ISC III 06 23 44 56.9–.24 31.14S–.04 178.50W–.05 87 5.3b 452 2-175
ISCJB III 06 23 44 56.6–.18 31.12S–.02 178.68W–.04 87 5.2b ¶16461118
BJI III 06 23 44 57.2 30.55S 177.92W 102 5.4b,5.2b
MOS III 06 23 44 59.4–1.1 30.95S 178.71W 111 5.3b,5.2b
NEIC III 06 23 45 00.4–.69 31.09S 178.67W 112–6 5.3W,5.2b
GCMT III 06 23 45 00.4–.20 30.90S 178.43W 129–1 5.4W,5.2b
NEIC III 06 23 45 00.0–.00 31.38S 178.49W 101 5.4W,5.2b
IDC III 06 23 45 02.5–.93 30.74S 178.60W 129–7 4.8,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=2.8km az=22.1.
MOS Error ellipse: s-maj=11.1km s-min=9.6km az=67.3.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.1km az=130.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c164; s71,c103; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.51±.03 $M_{\theta\theta}$0.07±.05; $M_{\phi\phi}$-0.57±.04; $M_{r\theta}$-0.06±.03; $M_{\theta\phi}$-0.23±.04; $M_{\phi r}$1.61±.03; Best double couple: NP1:ϕ_s359.00000°,δ81.00000°,λ82.00000°. NP2:ϕ_s221.00000°,δ12.00000°,λ131.00000°. Principal axes: T 1.6830,Plg53.0000°,Azm259.0000°; N 0.0640,Plg8.0000°,Azm0.0000°; P -1.7480,Plg35.0000°,Azm96.0000° $M_0$1.71500×10^{17}
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-0.30 $M_{r\theta}$0.00 $M_{\theta\phi}$-0.30 $M_{\phi r}$1.00 Best double couple: NP1:ϕ_s357.00000°,δ84.00000°,λ72.00000°. NP2:ϕ_s250.00000°,δ19.00000°,λ162.00000°. Principal axes: T 1.0000,Plg47.0000°,Azm247.0000°; N 0.2000,Plg18.0000°,Azm359.0000°; P -1.2000,Plg36.0000°,Azm103.0000° $M_0$1.00000×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=9.4km az=166.0.
ISC III 07 15 19 20.7–.78 28.49S–.08 178.8W–.20 350 3.2b 69 1-151
ISCJB III 07 15 19 18.0–.77 28.38S–.06 178.7W–.20 350 3.1b ¶17193421
IDC III 07 15 19 20.6–.90 27.96S 178.98W 332–13 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=7.2km az=8.3.
IDC Error ellipse: s-maj=35.8km s-min=17.6km az=148.0.
IDC III 08 05 13 47.0–6.3 31.60S 179.82W 0 3.7,3.6
¶17193452
IDC Error ellipse: s-maj=249.6km s-min=61.9km az=158.0.
IDC III 08 07 22 33.3–6.6 28.11S 178.00W 0 3.6,3.5
¶17193456
IDC Error ellipse: s-maj=308.5km s-min=100.1km az=163.0.
IDC III 08 12 38 47.8–3.5 27.75S 176.77W 0 3.8,3.6
¶17193467
IDC Error ellipse: s-maj=83.1km s-min=32.4km az=112.0.
ISC III 08 21 17 23.1–2.3 28.8S–.60 176.0W–.30 29 4.1b 9 2-151
IDC III 08 21 17 30.8–4.3 28.60S 176.46W 74–31 4.1,4.0 ¶17193496
ISC Event type ke.
IDC Error ellipse: s-maj=91.2km s-min=42.5km az=149.0.
IDC III 10 03 56 01.9–3.5 28.44S 178.56W 0 3.7,3.6
¶17193600
IDC Error ellipse: s-maj=92.0km s-min=19.0km az=37.0.
ISC III 19 07 46 54.6–2.4 31.59S–.10 178.9W–.30 200 3.9b 32 6-146
IDC III 19 07 46 52.4–10 31.37S 178.95W 170–110 4.2,3.8 ¶17197158
ISCJB III 19 07 46 53.5–1.5 31.53S–.07 178.9W–.30 200 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 15 20 28.0–.37 31.12S–.04 179.65W–.04 316–3 5.2b 1233 7-175
BJI III 20 15 20 25.6 30.82S 179.15W 315 5.1b,4.8b ¶16339595
ISCJB III 20 15 20 25.2–.46 31.02S–.03 179.78W–.03 292–5 5.1b,4.8b
MOS III 20 15 20 26.9–.95 30.94S 179.65W 315 5.4b,4.8b
NEIC III 20 15 20 28.3–.10 31.13S 179.82W 321 5.2b,4.8b
GCMT III 20 15 20 28.3–.20 30.90S 179.66W 329–0 5.7W,4.8b
IDC III 20 15 20 29.1–.90 30.93S 179.76W 322–7 5.3,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.0km az=167.2.
MOS Error ellipse: s-maj=16.1km s-min=14.2km az=145.6.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s106,c202;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.83±.06 $M_{\theta\theta}$-0.48±.10; $M_{\phi\phi}$3.31±.09; $M_{r\theta}$-1.74±.08; $M_{\theta\phi}$1.42±.08; $M_{\phi r}$0.59±.08; Best double couple: NP1:ϕ_s171.00000°,δ53.00000°,λ-131.00000°. NP2:ϕ_s46.00000°,δ53.00000°,λ-49.00000°. Principal axes: T 3.7830,Plg0.0000°,Azm288.0000°; N 0.1670,Plg31.0000°,Azm198.0000°; P -3.9550,Plg59.0000°,Azm18.0000° $M_0$3.86900×10^{17}
IDC Error ellipse: s-maj=10.8km s-min=8.9km az=163.0.
ISC III 21 16 16 55.8–1.2 31.8S–.10 177.4W–.20 35 4.3b 18 8-153
IDC III 21 16 16 50.1–1.2 31.77S 177.22W 0 4.4,4.3 ¶16447668
ISCJB III 21 16 16 54.0–1.3 31.79S–.09 177.3W–.20 35 4.3b,4.3
NEIC III 21 16 16 54.6–6.8 31.72S 177.28W 29–45 4.5b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.0km s-min=22.8km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=24.7km s-min=10.7km az=15.2.
NEIC Event type se. Error ellipse: s-maj=29.0km s-min=19.6km az=61.0.
ISC III 22 04 38 47.7–3.6 30.8S–.20 178.1E–.40 300 13 7-144
IDC III 22 04 37 57.3–5.3 29.30S 179.03W 0 4.2,3.9 ¶17197924
ISC Event type ke.
IDC Error ellipse: s-maj=235.6km s-min=84.0km az=165.0.
IDC III 22 09 52 48.0–2.4 27.65S 178.06W 0 4.1,4.0
¶17197978
IDC Error ellipse: s-maj=52.6km s-min=26.1km az=69.0.
IDC III 24 01 55 37.4–2.9 31.67S 177.75W 0 4.2,4.0b
¶17198269
IDC Error ellipse: s-maj=69.2km s-min=35.9km az=117.0.
ISC III 25 20 32 00.0–1.8 31.8S–.10 179.3E–.30 450 23 6-150
IDC III 25 20 31 57.7–7.6 31.73S 179.75E 439–90 3.8,3.1 ¶17198549
ISCJB III 25 20 31 58.9–1.5 31.74S–.08 179.4E–.30 450 3.1b,3.1
ISC Event type ke.
ISCJB Event type ke.
IDC III 26 23 22 10.5–1.8 27.18S 176.14W 0 3.8,3.6b
¶16459606
IDC Error ellipse: s-maj=70.1km s-min=43.8km az=2.0.
ISC III 27 15 01 04.6–1.2 27.07S–.09 178.5W–.20 200 3.1b 12 11-75
IDC III 27 15 01 10.2–5.9 27.33S 177.94W 286–100 4.0,3.3 ¶17198804
ISC Event type ke.
IDC Error ellipse: s-maj=104.2km s-min=27.0km az=127.0.
IDC III 27 21 08 33.6–6.5 31.34S 179.04W 0 3.7,3.4
¶17198851
IDC Error ellipse: s-maj=260.9km s-min=61.4km az=157.0.
ISC III 28 02 51 22.2–.81 30.6S–.10 179.6E–.30 400 3.7b 36 3-162
IDC III 28 02 51 23.0–1.4 30.80S 179.83W 413–14 4.5,3.8 ¶17198892
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=19.3km az=144.0.
ISC III 29 07 46 28.4–.34 28.39S–.06 177.38W–.09 54 5.0b,4.0s 204 1-165
ISCJB III 29 07 46 27.2–.18 28.34S–.04 177.42W–.06 54 5.0b,3.9s ¶16399152
IDC III 29 07 46 29.7–.55 28.08S 177.29W 64–5 4.5,4.4
NEIC III 29 07 46 30.8–.69 28.24S 177.38W 74–6 5.0b,4.4
GCMT III 29 07 46 30.8–.40 28.11S 176.92W 58–1 5.0W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.8km az=30.9.
IDC Error ellipse: s-maj=17.0km s-min=6.4km az=117.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.7km az=133.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c52; s54,c69; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.19±.17 $M_{\theta\theta}$-0.36±.14; $M_{\phi\phi}$-2.84±.11; $M_{r\theta}$0.15±.10; $M_{\theta\phi}$-0.81±.10; $M_{\phi r}$0.93±.10; Best double couple: NP1:ϕ_s14.00000°,δ53.00000°,λ87.00000°. NP2:ϕ_s199.00000°,δ37.00000°,λ93.00000°. Principal axes: T 3.3310,Plg81.0000°,Azm272.0000°; N -0.1200,Plg2.0000°,Azm16.0000°; P -3.2190,Plg8.0000°,Azm106.0000° $M_0$3.27500×10^{16}

ISC III 30 21 48 38.0–2.1 27.4S–.60 176.0W–.30 28 4.4b 10 17-153
IDC III 30 21 48 32.8–2.2 28.00S 175.79W 0 4.5,4.4 ¶16459654
ISC Event type ke.
IDC Error ellipse: s-maj=124.3km s-min=32.2km az=166.0.
IDC III 31 14 10 52.6–3.5 30.40S 179.03W 223–30 4.3,3.8
¶16459660
IDC Error ellipse: s-maj=43.6km s-min=28.9km az=173.0.
ISC IV 02 08 57 50.5–2.6 31.7S–.10 177.9W–.40 35 4.0b 15 7-146
IDC IV 02 08 57 46.0–3.0 31.55S 178.00W 0 4.2,4.1b ¶17199510
ISCJB IV 02 08 57 48.5–2.1 31.74S–.08 177.9W–.30 35 4.0b,4.1b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 04 03 06 58.6–8.6 31.28S 177.89W 0 3.7,3.5
¶17199732
IDC Error ellipse: s-maj=372.5km s-min=66.5km az=157.0.
ISC IV 06 11 25 56.1–.23 31.55S–.03 177.01W–.05 35 5.4b,4.7s 623 7-173
BJI IV 06 11 25 50.2 30.92S 176.54W 5 5.8b,5.5b ¶16411050
IDC IV 06 11 25 50.9–.33 31.29S 176.97W 0 5.3,5.2
NEIC IV 06 11 25 51.2–2.3 31.43S 177.10W 3–14 5.2b,5.2
GCMT IV 06 11 25 51.2–.20 31.27S 176.78W 14–0 5.2W,5.2
ISCJB IV 06 11 25 54.4–.12 31.68S–.03 177.06W–.03 33 5.4b,4.7s
MOS IV 06 11 25 55.4–1.1 31.34S 177.13W 33 5.2b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=14.6km az=48.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=156.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c104; s90,c152; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.02 $M_{\theta\theta}$-0.06±.01; $M_{\phi\phi}$0.75±.01; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-0.30±.03; Best double couple: NP1:ϕ_s4.00000°,δ56.00000°,λ-110.00000°. NP2:ϕ_s216.00000°,δ39.00000°,λ-64.00000°. Principal axes: T 0.9140,Plg9.0000°,Azm108.0000°; N -0.1200,Plg16.0000°,Azm15.0000°; P -0.7930,Plg71.0000°,Azm226.0000° $M_0$0.85400×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.4km az=41.6.
MOS Error ellipse: s-maj=10.8km s-min=8.8km az=82.8.
ISC IV 06 16 58 33.9–.80 31.0S–.10 177.9W–.20 46 4.1b 20 8-162
IDC IV 06 16 58 27.3–.88 30.83S 177.86W 0 4.4,4.2 ¶16506229
ISCJB IV 06 16 58 33.0–1.2 31.12S–.10 178.0W–.20 46 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC IV 07 06 31 32.8–.78 31.49S–.09 178.5W–.20 35 4.7b,3.5s 40 7-162
IDC IV 07 06 31 26.2–.86 31.34S 178.20W 0 5.0,4.9b ¶16506239
ISCJB IV 07 06 31 28.1–1.7 31.57S–.06 178.1W–.30 33 4.8b,3.4s
NEIC IV 07 06 31 31.9–.44 31.05S 178.34W 35 4.7b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=36.6km s-min=27.6km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=32.1km s-min=7.7km az=6.1.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=11.0km az=78.0.
ISC IV 10 04 45 21.9–.29 28.95S–.05 176.73W–.05 35 5.1b,4.6s 365 1-174
IDC IV 10 04 45 16.7–.48 28.68S 176.80W 0 4.9,4.8 ¶16416036
ISCJB IV 10 04 45 19.8–.14 29.06S–.03 176.98W–.05 31 5.0b,4.5s
BJI IV 10 04 45 21.4 28.36S 176.63W 35 5.4b,5.2b
MOS IV 10 04 45 21.0–1.1 28.72S 176.92W 33 5.2b,5.2b
NEIC IV 10 04 45 24.4–.90 28.77S 176.98W 52–8 5.0b,5.2b
GCMT IV 10 04 45 24.4–.20 28.73S 176.54W 12–0 5.2W,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=13.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.1km az=34.7.
MOS Error ellipse: s-maj=10.4km s-min=8.8km az=54.6.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=147.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c93; s89,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.96±.20 $M_{\theta\theta}$0.17±.18; $M_{\phi\phi}$-6.13±.15; $M_{r\theta}$-1.93±.45; $M_{\theta\phi}$-3.77±.12; $M_{\phi r}$0.44±.34; Best double couple: NP1:ϕ_s225.00000°,δ51.00000°,λ119.00000°. NP2:ϕ_s4.00000°,δ47.00000°,λ60.00000°. Principal axes: T 6.7510,Plg68.0000°,Azm201.0000°; N 1.1580,Plg22.0000°,Azm26.0000°; P -7.9050,Plg2.0000°,Azm295.0000° $M_0$7.32800×10^{16}
ISC IV 10 04 49 36.7–.52 28.98S–.08 176.69W–.08 36 4.5b 49 1-164
IDC IV 10 04 49 31.3–.62 28.65S 176.72W 0 4.5,4.2 ¶16416804
ISCJB IV 10 04 49 35.5–.44 28.96S–.08 176.93W–.09 36 4.6b,4.2s
NEIC IV 10 04 49 36.6–1.9 28.85S 176.81W 36–16 4.6b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=34.4km s-min=15.2km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=8.8km az=42.1.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=13.6km az=180.0.
ISC IV 10 05 09 52.5–.83 28.9S–.10 176.8W–.10 36 4.5b 18 1-151
IDC IV 10 05 09 47.1–1.2 28.55S 176.89W 0 4.4,4.1b ¶16462821
ISCJB IV 10 05 09 51.3–.80 28.8S–.10 176.9W–.10 36 4.5b,4.1b
NEIC IV 10 05 09 52.4–.61 28.66S 176.91W 35 4.8b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=51.6km s-min=19.6km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=15.0km az=137.6.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=11.3km az=110.0.
ISC IV 10 05 19 51.1–.57 29.02S–.09 176.77W–.09 36 4.3b,3.8s 40 1-164
IDC IV 10 05 19 45.2–.60 28.89S 176.71W 0 4.6L,4.4 ¶16506271
ISCJB IV 10 05 19 49.6–.52 29.02S–.08 176.9W–.10 36 4.3b,3.8s
NEIC IV 10 05 19 50.7–.38 28.94S 176.78W 35 4.5b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=14.7km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=11.1km az=33.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.8km az=138.0.
IDC IV 12 01 38 58.2–1.4 28.73S 177.57W 0 4.0,3.8
¶17200714
IDC Error ellipse: s-maj=48.6km s-min=15.9km az=115.0.
ISC IV 12 22 46 16.7–.97 30.96S–.09 180.0W–.20 200 3.6b 32 2-162
ISCJB IV 12 22 46 15.8–.79 30.92S–.06 180.0W–.20 200 3.5b ¶17200817
IDC IV 12 22 46 16.9–1.5 31.00S 179.72W 203–17 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=6.7km az=15.1.
IDC Error ellipse: s-maj=26.1km s-min=21.1km az=101.0.
ISC IV 12 23 47 49.7–1.3 28.5S–.10 177.6W–.30 54 3.9b 11 1-152
IDC IV 12 23 47 48.8–4.1 28.53S 177.61W 45–43 4.0,3.9 ¶16505353
ISCJB IV 12 23 47 49.1–5.4 28.5S–.20 177.8W–.70 54 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC IV 16 15 51 48.3–3.3 31.25S 177.64W 0 3.7,3.6
¶17201240
IDC Error ellipse: s-maj=77.3km s-min=38.2km az=113.0.
IDC IV 16 20 58 10.1–6.6 31.91S 179.68E 0 4.1s,4.1
¶17201258
IDC Error ellipse: s-maj=274.8km s-min=57.5km az=159.0.
ISC IV 17 13 26 50.6–3.7 31.3S–.20 179.2E–.50 450 15 7-145
IDC IV 17 13 26 46.8–8.2 31.21S 179.77E 452–101 4.1,3.4 ¶17201322
ISC Event type ke.
IDC Error ellipse: s-maj=101.4km s-min=41.5km az=9.0.
ISC IV 19 21 09 07.1–.90 30.35S–.08 179.4W–.20 321 3.7b 30 2-163
ISCJB IV 19 21 09 07.2–1.0 30.27S–.07 179.6W–.20 321 3.4b ¶16505444
IDC IV 19 21 09 10.1–1.3 30.39S 179.49W 346–12 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.6km s-min=9.0km az=1.6.
IDC Error ellipse: s-maj=25.7km s-min=18.1km az=141.0.
ISC IV 20 20 02 50.8–.83 27.3S–.10 177.3W–.20 145 4.2b 25 2-166
IDC IV 20 20 02 49.6–2.7 27.10S 177.51W 127–26 4.3,4.0 ¶16505458
NEIC IV 20 20 02 52.4–1.7 27.60S 177.27W 168–16 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=31.3km s-min=26.9km az=27.0.
NEIC Event type se. Error ellipse: s-maj=32.0km s-min=18.2km az=192.0.
IDC IV 22 00 40 42.6–1.6 30.94S 179.02W 0 4.0,3.8
¶17201763
IDC Error ellipse: s-maj=52.1km s-min=32.7km az=153.0.
ISC IV 22 10 00 12.0–1.1 31.1S–.10 178.9W–.20 35 4.2b 12 2-146
IDC IV 22 10 00 07.7–1.4 30.97S 179.08W 0 4.4,4.1 ¶16485035

ISCJB IV 22 10 00 10.6–.88 31.1S–.10 179.0W–.20 33 4.2b,3.5s
NEIC IV 22 10 00 12.2–.80 31.01S 178.94W 35 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=47.4km s-min=19.8km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=23.9km s-min=8.5km az=37.0.
NEIC Event type se. Error ellipse: s-maj=23.4km s-min=12.4km az=131.0.
ISC IV 22 10 01 16.9–1.6 31.5S–.10 178.7W–.30 100 4.2b 14 8-158
NEIC IV 22 10 01 12.3–1.0 31.19S 179.05W 35 4.5b ¶16631195
IDC IV 22 10 01 17.9–8.5 31.47S 179.07W 88–86 4.2,4.2L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=24.1km s-min=18.4km az=102.0.
IDC Error ellipse: s-maj=70.0km s-min=37.7km az=171.0.
ISC IV 22 18 27 17.3–.91 29.94S–.08 179.5W–.10 300 3.6b 41 2-150
ISCJB IV 22 18 27 17.0–.61 29.90S–.05 179.8W–.10 300 3.7b ¶16505491
IDC IV 22 18 27 16.8–.72 29.87S 179.04W 329–6 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=5.8km az=12.9.
IDC Error ellipse: s-maj=31.1km s-min=17.1km az=151.0.
IDC IV 29 01 28 42.6–26 27.30S 178.62E 636–213 3.7,2.8
¶16505573
IDC Error ellipse: s-maj=354.6km s-min=60.8km az=135.0.
ISC IV 29 06 25 33.1–.94 31.4S–.10 180.0E–.20 400 21 3-145
ISCJB IV 29 06 25 33.1–.72 31.31S–.07 179.9E–.20 400 2.9b ¶17202354
IDC IV 29 06 25 33.8–1.4 31.32S 179.81E 392–21 3.7,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=8.0km az=19.5.
IDC Error ellipse: s-maj=51.0km s-min=26.2km az=132.0.
IDC V 01 11 14 16.6–2.3 28.44S 177.63W 0 3.9,3.8
¶17202516
IDC Error ellipse: s-maj=37.0km s-min=21.7km az=72.0.
ISC V 03 05 14 18.7–.75 31.82S–.06 178.3W–.10 35 4.6b 44 3-161
IDC V 03 05 14 13.6–1.1 31.80S 178.26W 0 4.6,4.5 ¶16577964
ISCJB V 03 05 14 15.7–.85 31.89S–.04 178.1W–.20 35 4.7b,3.3s
NEIC V 03 05 14 19.4–1.6 31.76S 178.33W 40–12 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=21.7km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=4.4km az=12.6.
NEIC Event type se. Error ellipse: s-maj=23.3km s-min=12.2km az=110.0.
ISC V 04 22 39 00.2–.48 27.67S–.05 178.78W–.08 349–4 4.6b 201 2-167
ISCJB V 04 22 39 00.1–.53 27.67S–.04 178.91W–.05 356–6 4.5b ¶16577996
IDC V 04 22 39 00.7–.50 27.49S 178.82W 349–5 4.6,4.1
NEIC V 04 22 39 00.9–.61 27.44S 178.87W 350–6 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.0km az=38.8.
IDC Error ellipse: s-maj=14.0km s-min=12.3km az=170.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.0km az=156.0.
ISC V 05 12 56 37.2–1.5 31.38S–.07 177.0W–.20 35 3.5b 15 2-88
IDC V 05 12 56 32.6–1.8 31.37S 176.86W 0 3.9,3.7 ¶17202847
ISCJB V 05 12 56 35.3–1.3 31.45S–.05 177.1W–.20 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 06 20 53 28.4–3.1 28.43S 177.47W 0 4.1,3.9b
¶17202952
IDC Error ellipse: s-maj=65.4km s-min=24.0km az=97.0.
IDC V 06 22 31 18.7–8.4 31.75S 179.58W 319–93 3.9,3.4
¶17202958
IDC Error ellipse: s-maj=98.9km s-min=37.1km az=178.0.
ISC V 06 23 14 45.8–.74 28.80S–.08 177.7W–.10 100 4.2b 25 0-152
IDC V 06 23 14 45.5–.86 28.69S 177.67W 97–6 4.2,4.1 ¶16578038
NEIC V 06 23 14 45.5–1.0 28.72S 177.67W 100–8 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=16.9km az=50.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=13.1km az=84.0.
IDC V 07 10 11 05.1–6.5 31.34S 179.65W 360–69 3.8,3.1
¶16560923
IDC Error ellipse: s-maj=75.9km s-min=31.4km az=2.0.
IDC V 07 20 30 09.9–4.8 28.76S 176.17W 0 3.8,3.6
¶17203003
IDC Error ellipse: s-maj=183.5km s-min=75.5km az=157.0.
ISC V 08 13 56 01.7–2.3 31.7S–.10 178.2W–.30 26 3.6b 11 7-47
IDC V 08 13 55 53.2–13 31.31S 177.57W 0 3.7,3.5 ¶17203051
ISC Event type ke.
IDC Error ellipse: s-maj=322.2km s-min=38.4km az=48.0.
ISC V 08 17 22 04.4–1.6 31.9S–.10 179.1E–.30 400 3.0b 47 6-150
IDC V 08 17 22 07.8–7.5 32.62S 180.00E 457–94 3.7,2.9 ¶17203059
ISC Event type ke.
IDC Error ellipse: s-maj=117.2km s-min=34.4km az=4.0.
IDC V 08 19 58 53.0–8.5 27.55S 179.82W 0 3.7,3.5
¶17203072
IDC Error ellipse: s-maj=437.7km s-min=119.9km az=164.0.
IDC V 08 23 46 48.2–9.1 31.33S 178.79W 0 3.9,3.7
¶17203090
IDC Error ellipse: s-maj=390.5km s-min=66.0km az=158.0.
ISC V 09 03 30 38.6–1.9 31.1S–.10 178.8W–.30 35 3.5s,3.5b 12 7-162
IDC V 09 03 30 33.9–2.1 31.09S 178.82W 0 4.0,3.8b ¶16506293
ISCJB V 09 03 30 35.0–2.4 31.17S–.08 178.6W–.40 33 3.6b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC V 09 05 23 16.4–2.9 31.31S 178.68W 0 3.9,3.7
¶16506294
IDC Error ellipse: s-maj=68.5km s-min=35.7km az=108.0.
ISC V 09 12 27 37.6–.76 31.88S–.07 179.8W–.10 200 3.8b 60 3-161
IDC V 09 12 27 39.2–2.0 31.93S 179.58W 239–18 4.3,3.7 ¶16560939
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=16.0km az=139.0.
ISC V 10 22 56 42.1–2.8 27.2S–.20 178.6W–.40 35 9 11-142
IDC V 10 22 56 35.1–6.8 28.08S 178.20W 0 3.9,3.6 ¶17203328
ISC Event type ke.
IDC Error ellipse: s-maj=324.3km s-min=101.5km az=163.0.
IDC V 11 09 10 51.0–3.1 31.30S 178.79W 0 4.0,3.8
¶17203374
IDC Error ellipse: s-maj=69.0km s-min=36.1km az=106.0.
IDC V 11 18 36 21.2–6.9 31.83S 179.41W 0 3.6,3.4
¶17203419
IDC Error ellipse: s-maj=289.8km s-min=61.3km az=159.0.
IDC V 12 07 10 10.2–4.3 31.94S 178.95W 0 3.8,3.6
¶17203463
IDC Error ellipse: s-maj=208.6km s-min=56.7km az=164.0.
ISC V 13 23 12 09.2–.80 29.54S–.09 176.68W–.08 21 4.4b 24 1-164
IDC V 13 23 12 05.3–1.1 29.51S 176.63W 0 4.4,4.3 ¶16560057
ISCJB V 13 23 12 06.3–.00 29.66S–.06 176.6W–.10 21 4.5s,4.4b
NEIC V 13 23 12 10.6–.64 29.57S 176.70W 35 4.6b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=31.1km s-min=22.2km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=9.1km az=174.1.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.5km az=95.0.
ISC V 14 03 48 51.4–.49 29.58S–.07 176.84W–.08 31 4.5b,3.6s 74 1-165
ISCJB V 14 03 48 49.6–.53 29.67S–.06 176.83W–.09 31 4.6b,3.8s ¶16560059
NEIC V 14 03 48 53.9–1.6 29.32S 176.94W 52–12 4.5b,3.8s
IDC V 14 03 48 54.9–2.2 29.20S 176.90W 55–16 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=7.9km az=20.8.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=11.6km az=132.0.
IDC Error ellipse: s-maj=23.5km s-min=20.2km az=95.0.
ISC V 14 16 02 57.6–.90 29.0S–.10 176.9W–.10 36 4.0b 21 1-153
IDC V 14 16 02 51.6–1.1 28.92S 176.76W 0 4.3,4.1b ¶16560066
ISCJB V 14 16 02 54.0–.99 29.0S–.10 176.7W–.10 36 4.1b,3.1s
NEIC V 14 16 02 56.9–.75 29.03S 176.86W 35 4.0b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=34.6km s-min=24.9km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=12.7km az=148.3.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=14.5km az=110.0.
ISC V 14 18 12 24.4–1.4 28.7S–.20 176.8W–.20 48 3.9b 8 1-151
IDC V 14 18 12 17.6–1.6 28.63S 176.77W 0 4.0,3.8b ¶17203628
ISCJB V 14 18 12 21.7–1.5 28.6S–.20 176.7W–.20 48 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC V 14 19 25 39.0–2.3 31.9S–.10 179.7W–.40 35 13 6-146
IDC V 14 19 25 31.7–2.7 31.57S 179.31W 0 4.0,3.7 ¶17203636
ISC Event type ke.
IDC Error ellipse: s-maj=63.2km s-min=43.7km az=113.0.
IDC V 14 20 44 26.6–8.0 31.93S 179.57E 491–107 3.7,2.9
¶17203640
IDC Error ellipse: s-maj=126.0km s-min=52.2km az=5.0.
ISC V 16 21 25 54.7–.86 30.24S–.09 179.5W–.20 300 2.8b 20 2-148
ISCJB V 16 21 25 54.9–.76 30.15S–.07 179.7W–.10 300 3.0b ¶16560084
IDC V 16 21 25 55.4–.78 30.17S 179.46W 306–13 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=7.9km az=19.3.
IDC Error ellipse: s-maj=38.3km s-min=17.9km az=124.0.
ISC V 17 11 22 47.9–.68 31.39S–.07 179.4W–.10 400 4.0b 107 2-152
ISCJB V 17 11 22 46.2–.52 31.26S–.05 179.6W–.10 400 4.0b ¶16560088
IDC V 17 11 22 48.3–1.3 31.18S 179.76W 385–13 4.8,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=5.5km az=13.4.
IDC Error ellipse: s-maj=29.1km s-min=14.5km az=145.0.
ISC V 17 14 07 06.6–.68 30.94S–.08 179.8W–.10 377 3.4b 52 2-162
ISCJB V 17 14 07 06.1–.63 30.87S–.05 179.9W–.10 377 3.3b ¶16560091
IDC V 17 14 07 06.2–.72 30.88S 179.78W 369–8 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=5.8km az=17.6.
IDC Error ellipse: s-maj=27.1km s-min=14.3km az=130.0.
ISC V 18 01 51 02.2–2.1 31.9S–.10 179.5E–.30 400 29 6-146
IDC V 18 01 50 59.7–8.4 31.87S 179.83E 384–99 3.9,3.3 ¶17203847
ISCJB V 18 01 51 01.1–1.7 31.81S–.09 179.6E–.30 400 3.2b,3.3
ISC Event type ke.
ISCJB Event type ke.
IDC V 19 18 56 28.1–4.7 27.54S 179.74E 0 5.0L,3.8
¶17203987
IDC Error ellipse: s-maj=151.7km s-min=29.4km az=24.0.
ISC V 21 01 03 02.7–1.8 30.5S–.10 179.5W–.30 321 22 7-152
ISCJB V 21 01 03 03.5–1.6 30.50S–.08 179.6W–.30 321 2.6b ¶17204100
IDC V 21 01 03 04.9–8.1 30.81S 179.21W 355–82 3.7,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.9km s-min=10.5km az=4.3.
IDC Error ellipse: s-maj=85.5km s-min=47.2km az=13.0.
IDC V 21 21 50 22.9–6.5 28.17S 178.43W 0 3.9,3.6
¶17204167
IDC Error ellipse: s-maj=283.6km s-min=102.2km az=163.0.
ISC V 22 02 20 50.0–1.0 29.4S–.10 176.38W–.10 21 4.3b 17 1-164
IDC V 22 02 20 46.9–1.3 29.30S 176.34W 0 4.2,4.1 ¶16617319
ISCJB V 22 02 20 47.4–1.5 29.52S–.08 176.3W–.10 21 4.3b,4.1
NEIC V 22 02 20 53.2–3.2 29.46S 176.50W 42–22 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=37.7km s-min=23.9km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=17.8km s-min=10.8km az=161.9.
NEIC Event type se. Error ellipse: s-maj=33.1km s-min=14.7km az=63.0.
ISC V 22 12 36 33.5–3.2 30.4S–.10 179.6E–.40 350 15 7-144
IDC V 22 12 36 29.8–9.2 30.48S 179.38W 383–95 3.8,3.3 ¶17204224
ISC Event type ke.
IDC Error ellipse: s-maj=96.1km s-min=47.1km az=16.0.
ISC V 23 22 55 27.1–.76 31.86S–.08 179.8E–.20 450 4.0b 65 3-152
ISCJB V 23 22 55 26.7–.57 31.81S–.04 179.7E–.10 450 3.9b ¶16560136
IDC V 23 22 55 26.8–1.3 31.85S 179.80E 445–14 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=5.3km az=7.2.
IDC Error ellipse: s-maj=24.7km s-min=16.1km az=140.0.
IDC V 25 20 57 57.0–6.3 27.61S 178.42W 80–75 3.4,3.4
¶17204469
IDC Error ellipse: s-maj=92.1km s-min=62.6km az=77.0.
ISC V 26 05 51 30.8–1.0 31.75S–.09 178.4W–.20 35 4.6b 18 3-161
NEIC V 26 05 51 30.7–.68 31.71S 178.29W 35 4.6b ¶16560145
IDC V 26 05 51 31.6–8.9 31.76S 178.42W 33–62 4.4,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=11.8km az=101.0.
IDC Error ellipse: s-maj=52.2km s-min=25.3km az=140.0.
ISC V 27 03 03 46.5–1.7 28.3S–.20 178.1W–.30 150 3.6b 10 1-165
IDC V 27 03 03 47.3–1.3 28.52S 178.17W 153–8 3.8,3.6 ¶17204540
ISC Event type ke.
IDC Error ellipse: s-maj=38.6km s-min=27.1km az=24.0.
IDC V 27 22 59 42.8–6.9 28.70S 177.87W 29–51 3.6,3.5
¶17204598
IDC Error ellipse: s-maj=27.8km s-min=20.0km az=54.0.
ISC V 28 18 35 52.7–.21 27.49S–.03 178.42W–.03 307–1 5.4b 1352 2-169
BJI V 28 18 35 45.6 26.99S 178.02W 253 5.2b,5.0b ¶16560165
MOS V 28 18 35 51.8–.77 27.07S 178.58W 299 5.4b,5.0b
ISCJB V 28 18 35 51.5–.08 27.56S–.02 178.49W–.02 308 5.4b,5.0b
GCMT V 28 18 35 52.5–.30 27.14S 178.26W 318–1 5.5W,5.0b
IDC V 28 18 35 52.9–.49 27.14S 178.52W 302–4 5.4,4.8
NEIC V 28 18 35 52.5–.11 27.47S 178.53W 307 5.3b,4.8
ISC Event type se.
MOS Error ellipse: s-maj=8.7km s-min=7.4km az=68.1.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=1.9km az=37.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s76,c113;Duration: 1^{s}4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.02±.06 $M_{\theta\theta}$-0.46±.10; $M_{\phi\phi}$0.43±.09; $M_{r\theta}$0.73±.08; $M_{\theta\phi}$0.67±.08; $M_{\phi r}$-2.30±.07; Best double couple: NP1:ϕ_s162.00000°,δ90.00000°,λ108.00000°. NP2:ϕ_s253.00000°,δ18.00000°,λ1.00000°. Principal axes: T 2.5370,Plg42.0000°,Azm90.0000°; N 0.0140,Plg18.0000°,Azm342.0000° ; P -2.5500,Plg42.0000°,Azm235.0000° $M_0$2.54400×10^{17}
IDC Error ellipse: s-maj=9.9km s-min=8.3km az=2.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=146.0.
ISC V 28 18 37 33.3–.25 27.38S–.05 178.40W–.05 300 5.2b 453 2-167
ISCJB V 28 18 37 32.8–.11 27.38S–.02 178.45W–.03 300 5.2b ¶16554074
IDC V 28 18 37 32.9–.93 27.18S 178.48W 290–7 5.3,4.8
GCMT V 28 18 37 34.5–.30 27.12S 178.49W 314–1 5.5W,4.8
NEIC V 28 18 37 34.5–.12 27.26S 178.52W 307 5.2b,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.3km az=31.5.
IDC Error ellipse: s-maj=11.9km s-min=9.3km az=165.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s84,c123;Duration: 1^{s}4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.05 $M_{\theta\theta}$-0.03±.09; $M_{\phi\phi}$0.00±.08; $M_{r\theta}$0.62±.07; $M_{\theta\phi}$0.06±.07; $M_{\phi r}$-2.13±.06; Best double couple: NP1:ϕ_s164.00000°,δ90.00000°,λ91.00000°. NP2:ϕ_s269.00000°,δ1.00000°,λ16.00000°. Principal axes: T 2.2170,Plg45.0000°,Azm75.0000°; N 0.0060,Plg1.0000°,Azm344.0000° ; P -2.2220,Plg45.0000°,Azm252.0000° $M_0$2.22000×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=148.0.
ISC V 28 20 22 19.8–.63 31.17S–.07 180.0E–.10 426 4.0b 65 3-162
IDC V 28 20 22 20.4–1.2 31.08S 179.85E 422–14 4.5,3.8 ¶16560167
ISC Event type ke.
IDC Error ellipse: s-maj=26.7km s-min=12.2km az=132.0.
ISC V 28 21 50 10.5–1.6 30.31S–.10 179.8W–.30 362 24 7-163
IDC V 28 21 50 05.5–6.5 30.06S 179.34W 327–58 3.9,3.4 ¶17204655
ISC Event type ke.
IDC Error ellipse: s-maj=57.5km s-min=28.9km az=27.0.
ISC V 30 20 06 01.1–.56 31.02S–.06 180.0E–.10 300 3.9b 68 3-162
ISCJB V 30 20 05 59.4–.60 30.95S–.04 179.9W–.10 300 3.7b ¶16560176
IDC V 30 20 06 01.9–.71 31.12S 179.67W 323–6 4.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=5.7km az=7.1.
IDC Error ellipse: s-maj=20.9km s-min=10.8km az=133.0.
ISC V 31 02 19 04.9–2.1 31.87S–.10 179.5E–.30 200 20 6-161
IDC V 31 02 18 58.1–10 31.71S 179.52W 186–72 4.5,4.2 ¶17204802

ISC Event type ke.
IDC Error ellipse: s-maj=92.2km s-min=32.6km az=45.0.
IDC V 31 04 32 12.2–12 31.37S 178.67E 696–144 4.1,3.1
¶16560235

IDC Error ellipse: s-maj=108.6km s-min=21.0km az=57.0.
ISC VI 01 19 21 45.8–.30 31.88S–.04 177.83W–.06 24 5.1b,4.5s 447 3-171
NEIC VI 01 19 21 42.3–4.0 31.96S 177.94W 2–24 5.1b,4.5s **¶16722585**
IDC VI 01 19 21 42.3–.42 31.69S 177.84W 0 4.9,4.8
GCMT VI 01 19 21 42.3–.40 31.81S 177.52W 18–1 5.2W,4.8
ISCJB VI 01 19 21 45.6–.14 32.10S–.03 177.96W–.04 33 5.1b,4.4s
BJI VI 01 19 21 45.7 31.70S 177.90W 32 5.5b,5.1b
MOS VI 01 19 21 46.4–1.4 31.65S 177.92W 33 5.3b,5.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.5km az=174.0.
IDC Error ellipse: s-maj=16.1km s-min=14.5km az=124.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c52; s70,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.25±.30 $M_{\theta\theta}$-0.43±.20; $M_{\phi\phi}$-3.82±.20; $M_{r\theta}$2.31±.58; $M_{\theta\phi}$-1.67±.13; $M_{\phi r}$5.23±.61; Best double couple: NP1:ϕ_s24.00000°,δ71.00000°,λ91.00000°. NP2:ϕ_s201.00000°,δ19.00000°,λ87.00000°. Principal axes: T 7.0750,Plg64.0000°,Azm295.0000°; N 0.2550,Plg1.0000°,Azm203.0000°; P -7.3260,Plg26.0000°,Azm113.0000° $M_0$7.20100×10^{16}
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.4km az=33.3.
MOS Error ellipse: s-maj=11.6km s-min=8.6km az=80.3.
IDC VI 01 20 18 28.0–34 31.50S 179.10E 688–373 3.7,2.8
¶17204921

IDC Error ellipse: s-maj=259.1km s-min=45.3km az=76.0.
ISC VI 02 03 39 38.7–1.6 31.8S–.10 177.9W–.30 24 4.2b 10 3-161
ISCJB VI 02 03 39 35.6–3.5 31.9S–.10 177.8W–.60 24 4.1b **¶17204938**
IDC VI 02 03 39 35.6–1.5 31.72S 177.89W 0 4.4,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=71.0km s-min=7.7km az=14.1.
IDC Error ellipse: s-maj=38.4km s-min=23.4km az=109.0.
IDC VI 02 07 48 45.6–3.4 31.58S 178.05W 0 4.5L,4.2
¶17204964

IDC Error ellipse: s-maj=77.8km s-min=27.6km az=121.0.
ISC VI 02 22 08 42.1–.37 27.24S–.05 177.36W–.08 100 4.9b 82 2-166
ISCJB VI 02 22 08 40.8–.28 27.28S–.05 177.45W–.06 100 5.0b **¶16722597**
IDC VI 02 22 08 41.6–2.9 27.13S 177.30W 102–24 4.4,4.3
BJI VI 02 22 08 43.7 27.72S 178.39W 105 5.2b,5.2b
NEIC VI 02 22 08 44.1–.70 27.29S 177.46W 122–6 4.9b,5.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.7km az=27.5.
IDC Error ellipse: s-maj=26.5km s-min=18.9km az=19.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.9km az=120.0.
IDC VI 04 12 26 43.5–37 30.34S 176.83W 0 3.9,3.7
¶17205203

IDC Error ellipse: s-maj=683.3km s-min=186.6km az=97.0.
ISC VI 04 18 54 05.6–.81 29.65S–.08 176.9W–.10 36 4.3b,3.5s 46 1-164
IDC VI 04 18 54 00.1–.91 28.89S 176.79W 0 4.3L,4.2 **¶16856331**
ISCJB VI 04 18 54 03.1–.72 29.54S–.06 176.8W–.10 36 4.4b,3.5s
NEIC VI 04 18 54 04.7–.72 29.46S 176.80W 35 4.9b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=20.8km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=8.0km az=6.6.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=9.3km az=102.0.
IDC VI 07 09 48 34.5–9.9 29.95S 179.17W 363–101 3.8,3.2
¶17205474

IDC Error ellipse: s-maj=99.3km s-min=49.9km az=15.0.
IDC VI 08 05 44 57.4–8.3 31.08S 179.88W 369–96 3.8,3.1
¶17205533

IDC Error ellipse: s-maj=98.9km s-min=39.5km az=180.0.
IDC VI 09 08 45 33.0–6.7 31.97S 179.85E 368–74 3.9,3.3
¶17205608

IDC Error ellipse: s-maj=82.3km s-min=36.4km az=12.0.
ISC VI 10 10 56 10.6–.62 27.1S–.10 177.8W–.20 202 3.9b 19 2-166
IDC VI 10 10 56 08.2–2.0 26.92S 177.88W 175–18 4.1,3.9 **¶16720895**
ISCJB VI 10 10 56 09.5–.51 27.1S–.10 177.9W–.10 202 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC VI 16 15 19 24.0–6.5 28.47S 177.95W 0 3.7,3.6
¶17206327

IDC Error ellipse: s-maj=125.8km s-min=18.9km az=62.0.
ISC VI 17 07 38 26.9–.47 31.85S–.05 178.88W–.09 35 4.5b,3.5s 116 3-161
ISCJB VI 17 07 38 25.7–.41 31.92S–.03 178.9W–.10 35 4.6b,3.5s **¶16720940**
NEIC VI 17 07 38 26.8–1.2 32.00S 178.56W 44–11 4.8b,3.5s
IDC VI 17 07 38 33.6–1.5 31.56S 178.85W 95–12 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=3.8km az=15.2.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=9.7km az=110.0.
IDC Error ellipse: s-maj=15.8km s-min=13.6km az=154.0.
ISC VI 18 18 35 49.0–.75 31.91S–.07 177.7W–.10 18 4.7b 50 3-161
ISCJB VI 18 18 35 42.3–2.0 32.17S–.06 177.1W–.30 10 4.6b **¶16720946**
NEIC VI 18 18 35 44.8–1.2 32.01S 177.43W 8–4 4.8b
IDC VI 18 18 35 47.1–1.1 31.98S 177.72W 0 4.5,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=38.1km s-min=8.2km az=6.0.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=10.2km az=96.0.
IDC Error ellipse: s-maj=33.2km s-min=23.4km az=128.0.
ISC VI 19 04 02 08.7–.72 31.1S–.10 179.2W–.20 35 4.1b 14 2-162
IDC VI 19 04 02 03.7–1.0 31.07S 179.17W 0 4.2,4.2L **¶16718259**
ISCJB VI 19 04 02 07.0–.67 31.15S–.08 179.1W–.20 33 4.5b,3.6s
NEIC VI 19 04 02 09.2–.65 31.03S 179.13W 35 4.2b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=33.7km s-min=19.4km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=7.0km az=26.4.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=14.8km az=121.0.
IDC VI 20 18 52 01.9–7.9 31.48S 179.92W 488–102 3.7,3.0
¶17206614

IDC Error ellipse: s-maj=112.2km s-min=42.7km az=7.0.
ISC VI 21 15 30 32.0–.47 29.32S–.07 176.19W–.07 28 4.7b,3.5s 75 2-168
ISCJB VI 21 15 30 30.4–.30 29.42S–.06 176.33W–.10 28 4.6b,3.6s **¶16720965**
BJI VI 21 15 30 34.3 29.60S 176.40W 70 5.3b,5.0b
NEIC VI 21 15 30 35.4–1.2 29.58S 176.23W 62–11 4.7b,5.0b
IDC VI 21 15 30 36.1–1.0 28.89S 176.24W 54–6 4.2,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=5.1km az=31.5.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.2km az=104.0.
IDC Error ellipse: s-maj=34.2km s-min=9.1km az=160.0.
IDC VI 23 20 57 43.0–1.7 30.23S 179.12W 239–19 4.1,3.7
¶17206832

IDC Error ellipse: s-maj=59.0km s-min=26.8km az=177.0.
ISC VI 24 13 18 18.1–.41 31.64S–.05 179.15W–.08 35 4.7b 190 3-171
ISCJB VI 24 13 18 17.1–.24 31.71S–.02 179.24W–.06 33 4.7b,3.6s **¶16681338**
NEIC VI 24 13 18 17.8–.38 31.63S 179.11W 35 5.0b,3.6s
BJI VI 24 13 18 17.6 31.70S 179.20W 37 5.6b,5.3s
IDC VI 24 13 18 28.7–1.2 31.49S 179.22W 131–9 4.6,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=2.9km az=15.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.6km az=104.0.
IDC Error ellipse: s-maj=14.8km s-min=11.4km az=140.0.
IDC VI 24 19 26 03.9–1.4 30.25S 179.64W 362–22 3.6,3.0
¶17206887

IDC Error ellipse: s-maj=52.6km s-min=33.0km az=130.0.
IDC VI 24 20 58 45.0–6.3 31.04S 179.60W 0 3.8,3.5
¶17206890

IDC Error ellipse: s-maj=254.7km s-min=55.3km az=156.0.
ISC VI 28 04 45 24.0–1.2 29.0S–.10 178.3W–.20 231 8 0-164
ISCJB VI 28 04 45 22.4–1.2 28.8S–.10 178.3W–.20 231 3.1b **¶17207114**
IDC VI 28 04 45 23.9–.82 28.81S 178.54W 216–8 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.9km s-min=15.1km az=14.4.
IDC Error ellipse: s-maj=31.1km s-min=25.9km az=115.0.

(178) Kermadec Islands.
IDC I 02 01 13 42.8–3.1 30.53S 178.54W 0 3.8,3.6
¶17189176

IDC Error ellipse: s-maj=70.0km s-min=46.5km az=111.0.
ISC I 03 08 06 18.1–.72 30.63S–.06 178.0W–.20 46 4.4b,3.4s 40 1-163
IDC I 03 08 06 11.8–.85 30.70S 177.88W 0 4.5,4.4b **¶16021239**
ISCJB I 03 08 06 16.6–.76 30.78S–.05 178.0W–.20 46 4.4b,3.4s
NEIC I 03 08 06 17.4–1.4 30.69S 177.92W 38–11 4.7b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=18.3km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=5.7km az=12.6.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=11.3km az=112.0.
ISC I 03 18 30 48.6–.65 30.27S–.06 177.8W–.20 46 4.3b 40 1-163
IDC I 03 18 30 42.2–.69 30.29S 177.72W 0 4.4,4.3b **¶16017934**
NEIC I 03 18 30 45.4–3.4 30.29S 177.72W 21–22 4.8b,4.3b
ISCJB I 03 18 30 46.7–.78 30.42S–.05 177.8W–.20 46 4.3b,4.3b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 05 09 36 01.8–.50 29.09S–.07 178.4W–.10 231 3.9b 59 0-164
ISCJB I 05 09 36 00.9–.47 29.19S–.04 178.3W–.10 231 3.9b **¶16021256**
IDC I 05 09 36 01.8–.37 28.62S 178.34W 215–3 4.3,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=4.9km az=14.3.
IDC Error ellipse: s-maj=14.5km s-min=12.2km az=19.0.
IDC I 07 09 40 28.2–5.5 30.39S 178.14W 73–36 3.9,3.7
¶17189632

IDC Error ellipse: s-maj=87.0km s-min=36.2km az=136.0.
IDC I 11 05 26 44.9–2.5 29.99S 177.09W 0 3.8,3.6
¶17189899

IDC Error ellipse: s-maj=55.4km s-min=29.6km az=59.0.
IDC I 17 19 39 51.9–2.8 30.20S 178.61W 0 3.8,3.6
¶17190423

IDC Error ellipse: s-maj=108.0km s-min=50.0km az=20.0.
IDC I 18 21 23 49.8–4.5 30.65S 178.61W 0 3.5,3.4
¶17190505

IDC Error ellipse: s-maj=226.0km s-min=49.2km az=160.0.
ISC I 19 11 41 56.7–.90 29.27S–.07 178.8W–.10 200 3.4b 35 1-164
ISCJB I 19 11 41 55.9–.73 29.16S–.05 178.9W–.10 200 3.4b **¶17190555**
IDC I 19 11 41 55.1–.75 28.73S 178.42W 208–6 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.6km az=14.4.
IDC Error ellipse: s-maj=26.6km s-min=19.4km az=12.0.
IDC I 24 14 49 01.8–3.3 30.30S 177.46W 0 4.5,4.4s
¶17190900

IDC Error ellipse: s-maj=67.2km s-min=31.0km az=110.0.
ISC I 24 20 00 13.7–.64 30.02S–.07 177.4W–.10 35 4.5b,3.9s 32 1-163
ISCJB I 24 20 00 12.5–.71 30.02S–.07 177.5W–.10 35 4.4b,3.9s **¶15990754**
IDC I 24 20 00 12.7–3.4 29.94S 177.41W 27–21 4.7L,4.5
NEIC I 24 20 00 16.5–1.6 29.70S 177.48W 56–11 4.7b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.6km s-min=9.1km az=169.5.
IDC Error ellipse: s-maj=20.7km s-min=18.8km az=75.0.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=13.9km az=133.0.
IDC I 24 22 54 50.9–4.8 30.45S 177.94W 149–28 3.7,3.6
¶17190927

IDC Error ellipse: s-maj=91.7km s-min=24.7km az=156.0.
ISC I 25 13 18 11.9–.36 30.16S–.04 177.87W–.04 55–2 5.8b,5.0s 1093 1-174
MOS I 25 13 18 09.1–.91 30.00S 177.91W 33 5.9b,5.1s **¶15964371**
ISCJB I 25 13 18 10.8–.09 30.28S–.02 177.99W–.03 55 5.7b,5.0s
IDC I 25 13 18 10.7–1.3 29.96S 177.85W 39–9 5.3,5.2
GCMT I 25 13 18 10.2–.10 29.98S 177.49W 47–0 5.4W,5.2
NEIC I 25 13 18 10.2–.12 30.06S 177.95W 35 5.8b,5.4W
BJI I 25 13 18 11.3 29.88S 177.54W 63 5.7b,5.4b
ISC Event type se.
MOS Error ellipse: s-maj=9.7km s-min=7.8km az=78.6.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=41.8.
IDC Error ellipse: s-maj=12.6km s-min=11.8km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c195; s117,c242;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.61±.03 $M_{\theta\theta}$0.03±.02; $M_{\phi\phi}$-1.65±.02; $M_{r\theta}$0.01±.02; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$0.61±.02; Best double couple: NP1:ϕ_s7.00000°,δ55.00000°,λ86.00000°. NP2:ϕ_s195.00000°,δ35.00000°,λ96.00000°. Principal axes: T 1.7210,Plg79.0000°,Azm260.0000°; N 0.0950,Plg4.0000°,Azm10.0000°; P -1.8220,Plg10.0000°,Azm101.0000° $M_0$1.77200×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=149.0. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.56 $M_{\theta\theta}$-0.68 $M_{\phi\phi}$-0.87 $M_{r\theta}$-0.02 $M_{\theta\phi}$-0.74 $M_{\phi r}$0.08 Best double couple: NP1:ϕ_s39.00000°,δ46.00000°,λ87.00000°. NP2:ϕ_s224.00000°,δ44.00000°,λ94.00000°. Principal axes: T 1.5600,Plg87.0000°,Azm240.0000°; N -0.0300,Plg2.0000°,Azm41.0000°; P -1.5300,Plg1.0000°,Azm131.0000° $M_0$1.50000×10^{17}
ISC I 25 13 57 13.8–1.9 29.91S–.10 177.5W–.30 35 4.3b 13 1-145
NEIC I 25 13 57 16.0–1.5 29.83S 177.60W 57–9 4.3b **¶16020116**
IDC I 25 13 57 16.6–3.6 29.71S 177.67W 57–26 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=27.2km s-min=13.8km az=98.0.
IDC Error ellipse: s-maj=62.5km s-min=39.0km az=161.0.
IDC I 28 18 30 47.6–7.9 30.44S 178.59W 0 3.6,3.4
¶17191207

IDC Error ellipse: s-maj=326.1km s-min=61.3km az=156.0.
IDC I 30 10 26 02.1–5.4 30.32S 177.95W 0 3.8,3.6
¶17191310

IDC Error ellipse: s-maj=199.3km s-min=54.1km az=149.0.
ISC I 31 00 21 45.9–.77 29.81S–.07 177.4W–.10 35 4.4b 25 1-163
IDC I 31 00 21 40.8–1.3 29.75S 177.33W 0 4.3,4.1 **¶16136255**
ISCJB I 31 00 21 43.8–.71 29.87S–.07 177.4W–.10 35 4.6b,4.1
NEIC I 31 00 21 44.0–3.4 29.81S 177.30W 23–23 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=36.6km s-min=19.2km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=9.7km az=171.6.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=10.7km az=114.0.
ISC II 02 15 46 02.5–3.4 30.55S–.10 177.6W–.50 33 4.2b 8 1-145
IDC II 02 15 45 58.1–3.2 30.58S 177.53W 0 4.2,4.1b **¶16026084**
NEIC II 02 15 46 02.0–2.2 30.62S 177.43W 35 4.5b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=68.1km s-min=26.3km az=108.0.
NEIC Event type se. Error ellipse: s-maj=49.7km s-min=16.2km az=100.0.
IDC II 04 03 48 39.6–5.0 29.54S 178.40W 0 4.2,4.1s
¶17191632

IDC Error ellipse: s-maj=246.3km s-min=78.2km az=165.0.
ISC II 05 18 40 08.6–1.1 30.23S–.06 177.7W–.20 33 4.9b 31 1-153
IDC II 05 18 40 03.8–1.3 30.32S 177.56W 0 4.8,4.7b **¶16168806**
NEIC II 05 18 40 04.9–2.5 30.32S 177.56W 7–13 5.1b,4.7b
ISCJB II 05 18 40 07.4–1.0 30.43S–.05 177.7W–.20 33 4.8b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 09 21 00 04.5–4.8 29.90S 177.95W 0 3.8,3.6
¶17191962

IDC Error ellipse: s-maj=245.5km s-min=74.5km az=166.0.
IDC II 09 21 19 29.5–4.4 30.08S 177.94W 0 4.5,4.2
¶17191963

IDC Error ellipse: s-maj=246.4km s-min=66.4km az=166.0.
IDC II 09 21 36 21.0–5.1 29.79S 178.52W 0 3.6,3.5
¶17191967

IDC Error ellipse: s-maj=254.3km s-min=79.1km az=165.0.
IDC II 09 21 38 26.4–4.0 30.77S 177.73W 0 4.3,4.0
¶17191968

IDC Error ellipse: s-maj=196.1km s-min=47.8km az=160.0.

IDC II 09 22 11 33.0–4.1 30.15S 178.13W 0 4.2,3.9
¶17191971

IDC Error ellipse: s-maj=235.8km s-min=49.6km az=164.0.
IDC II 09 22 16 12.3–4.8 30.01S 178.06W 0 3.7,3.6
¶17191972

IDC Error ellipse: s-maj=261.4km s-min=72.8km az=166.0.
IDC II 09 22 54 02.1–7.5 30.26S 178.04W 0 4.0,3.7
¶17191974

IDC Error ellipse: s-maj=317.4km s-min=56.3km az=155.0.
IDC II 09 23 31 14.3–5.0 29.72S 178.13W 0 3.9,3.6
¶17191975

IDC Error ellipse: s-maj=253.8km s-min=77.2km az=165.0.
IDC II 10 00 21 18.0–4.6 29.94S 177.91W 0 4.0,3.8
¶17191980

IDC Error ellipse: s-maj=234.1km s-min=70.8km az=166.0.
IDC II 10 04 37 15.2–1.9 30.29S 178.07W 0 4.3,4.1b
¶17191992

IDC Error ellipse: s-maj=65.3km s-min=43.2km az=12.0.
IDC II 10 08 43 13.0–3.6 30.08S 177.39W 0 3.8,3.6
¶17191999

IDC Error ellipse: s-maj=72.2km s-min=38.9km az=96.0.
IDC II 10 18 53 50.7–5.2 30.24S 178.78W 0 4.0,3.7
¶16029782

IDC Error ellipse: s-maj=307.1km s-min=72.4km az=167.0.
IDC II 12 02 39 32.1–8.3 30.81S 177.75W 0 3.6,3.5
¶17192100

IDC Error ellipse: s-maj=356.9km s-min=56.3km az=156.0.
IDC II 13 01 19 57.0–6.2 30.25S 177.46W 0 3.9,3.6
¶17192133

IDC Error ellipse: s-maj=317.5km s-min=44.0km az=163.0.
IDC II 15 05 40 31.2–7.2 30.89S 177.83W 0 4.1,3.8
¶17192285

IDC Error ellipse: s-maj=304.4km s-min=58.0km az=156.0.
ISC II 16 04 15 14.7–.83 30.94S–.08 177.6W–.10 35 4.3b,3.7s 24 2-162
IDC II 16 04 15 09.0–.91 31.00S 177.62W 0 4.4,4.2b **¶16168862**
ISCJB II 16 04 15 13.4–1.0 30.98S–.07 177.7W–.20 35 4.4b,3.6s
NEIC II 16 04 15 14.8–1.4 30.87S 177.66W 38–11 4.3b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=23.3km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=9.6km az=14.4.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=10.4km az=124.0.
IDC II 16 08 00 43.3–7.9 30.37S 177.97W 0 3.8,3.5
¶17192351

IDC Error ellipse: s-maj=334.7km s-min=56.1km az=155.0.
ISC II 17 00 20 08.5–.51 30.01S–.05 178.89W–.09 200 4.5b 90 1-163
ISCJB II 17 00 20 08.1–.57 30.03S–.04 178.98W–.09 200 4.5b **¶16398377**
NEIC II 17 00 20 08.9–1.0 30.19S 178.70W 213–9 4.7b
IDC II 17 00 20 10.5–.81 29.47S 178.71W 227–7 4.6,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.7km az=2.7.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=12.1km az=112.0.
IDC Error ellipse: s-maj=18.7km s-min=17.0km az=25.0.
IDC II 18 22 20 37.5–4.8 29.76S 178.06W 0 3.8,3.6
¶17192509

IDC Error ellipse: s-maj=232.0km s-min=74.9km az=166.0.
ISC II 18 22 51 12.6–.79 30.84S–.08 177.6W–.10 27 4.3b 20 2-146
IDC II 18 22 51 09.2–2.9 30.91S 177.64W 0 4.0,3.9b **¶16398517**
ISCJB II 18 22 51 10.4–.73 30.99S–.08 177.5W–.10 27 4.3b,3.9b
NEIC II 18 22 51 10.6–3.1 30.94S 177.50W 15–19 4.4b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=65.8km s-min=26.8km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=7.8km az=26.8.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.1km az=127.0.
ISC II 19 15 46 48.6–.98 30.03S–.08 178.3W–.20 100 3.6b 18 1-145
ISCJB II 19 15 46 47.8–.65 30.10S–.05 178.5W–.10 100 3.6b **¶17192541**
IDC II 19 15 46 48.3–1.5 30.00S 178.23W 116–14 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=6.4km az=17.3.
IDC Error ellipse: s-maj=51.9km s-min=20.4km az=107.0.
IDC II 22 05 09 45.9–6.7 30.90S 178.66W 0 3.9,3.6
¶17192678

IDC Error ellipse: s-maj=269.5km s-min=61.6km az=156.0.
IDC II 25 09 18 11.3–6.9 30.91S 177.37W 0 3.8,3.6
¶17192827

IDC Error ellipse: s-maj=292.8km s-min=54.6km az=156.0.
IDC II 27 07 42 15.1–8.6 30.53S 178.08W 0 3.8,3.6
¶17192940

IDC Error ellipse: s-maj=369.7km s-min=54.4km az=156.0.
IDC II 27 11 26 09.9–6.2 30.44S 178.60W 0 3.8,3.6
¶17192948

IDC Error ellipse: s-maj=250.0km s-min=56.5km az=155.0.
IDC II 28 13 42 05.7–7.5 30.07S 177.43W 0 3.4,3.3
¶17193000

IDC Error ellipse: s-maj=316.1km s-min=58.3km az=155.0.
ISC II 28 15 17 15.1–2.5 30.8S–.10 178.4W–.40 10 3.9b 13 7-145
IDC II 28 15 17 13.0–3.2 30.62S 178.36W 0 4.0,3.9 **¶17193004**
ISC Event type ke.
IDC Error ellipse: s-maj=68.1km s-min=45.3km az=113.0.
IDC III 01 18 29 17.6–2.9 30.23S 177.55W 0 4.0,3.8b
¶17193088

IDC Error ellipse: s-maj=56.2km s-min=23.9km az=99.0.
IDC III 02 08 33 22.6–6.8 30.58S 178.58W 0 3.6,3.5
¶17193116

IDC Error ellipse: s-maj=278.3km s-min=56.5km az=156.0.
IDC III 05 17 35 58.5–4.6 30.15S 178.70W 0 3.6,3.5
¶17193300

IDC Error ellipse: s-maj=229.5km s-min=72.5km az=166.0.
IDC III 07 16 05 26.2–7.6 30.54S 178.62W 0 3.7,3.5
¶17193422

IDC Error ellipse: s-maj=321.3km s-min=57.5km az=156.0.
IDC III 07 21 05 34.1–6.3 30.43S 178.50W 0 3.8,3.6
¶17193431

IDC Error ellipse: s-maj=249.4km s-min=60.5km az=155.0.
ISC III 08 02 10 41.2–.46 30.51S–.05 178.02W–.08 45–3 5.0b,3.9s 213 1-170
ISCJB III 08 02 10 40.3–.34 30.65S–.04 177.95W–.08 50 4.9b,3.8s **¶16269118**
NEIC III 08 02 10 40.5–.84 30.33S 177.93W 40–7 5.0b,3.8s
MOS III 08 02 10 41.0–1.6 30.20S 178.07W 44 5.2b,3.8s
IDC III 08 02 10 42.2–.56 30.21S 178.00W 55–4 4.7,4.6
BJI III 08 02 10 42.4 30.27S 178.33W 46 5.5b,5.4s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=4.2km az=19.4.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.5km az=121.0.
MOS Error ellipse: s-maj=15.0km s-min=12.4km az=77.5.
IDC Error ellipse: s-maj=15.5km s-min=7.3km az=96.0.
IDC III 08 03 22 53.6–7.9 30.57S 178.42W 0 3.8,3.6
¶17193449

IDC Error ellipse: s-maj=334.9km s-min=57.0km az=156.0.
IDC III 08 03 25 45.3–5.4 30.77S 178.09W 0 3.9,3.7
¶17193450

IDC Error ellipse: s-maj=214.1km s-min=55.4km az=155.0.
IDC III 08 22 07 25.2–6.5 30.47S 178.70W 0 3.7,3.5
¶17193499

IDC Error ellipse: s-maj=261.1km s-min=59.0km az=155.0.
ISC III 14 13 50 30.2–2.4 29.8S–.30 177.1W–.30 24 4.1b 7 1-145
NEIC III 14 13 50 30.9–1.7 28.41S 177.71W 10 4.1b **¶16410978**
IDC III 14 13 50 30.2–3.8 28.56S 177.82W 0 4.3,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=34.9km s-min=14.2km az=84.0.
IDC Error ellipse: s-maj=72.5km s-min=19.1km az=73.0.
ISC III 15 17 17 40.9–.90 29.69S–.09 178.8W–.20 400 3.8b 60 1-164
ISCJB III 15 17 17 38.6–.75 29.61S–.06 178.8W–.20 400 3.9b **¶16461802**

IDC III 15 17 17 41.1–.64 29.48S 179.25W 372–8 4.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=7.7km az=11.3.
IDC Error ellipse: s-maj=27.2km s-min=18.3km az=143.0.
IDC III 21 10 50 16.3–3.3 30.36S 177.84W 0 4.0,3.9
¶17197667

IDC Error ellipse: s-maj=71.1km s-min=21.4km az=112.0.
IDC III 23 06 26 27.9–7.5 30.64S 178.28W 0 3.9,3.6
¶17198135

IDC Error ellipse: s-maj=305.7km s-min=61.2km az=156.0.
IDC III 24 02 00 30.1–6.1 30.35S 178.32W 0 4.1,3.8
¶17198270

IDC Error ellipse: s-maj=241.2km s-min=59.2km az=155.0.
IDC III 27 11 41 05.9–4.0 29.25S 178.18W 0 4.0,3.9
¶17198782

IDC Error ellipse: s-maj=206.0km s-min=47.0km az=156.0.
IDC III 28 20 29 33.1–3.0 30.70S 178.26W 0 4.0,3.8
¶17198988

IDC Error ellipse: s-maj=67.2km s-min=44.0km az=120.0.
IDC III 29 06 41 42.8–50 29.69S 177.71W 0 3.9,3.7
¶17199040

IDC Error ellipse: s-maj=923.3km s-min=189.6km az=97.0.
ISC III 30 01 05 08.3–.60 29.6S–.10 178.5W–.20 204 4.3b 58 1-164
NEIC III 30 01 05 04.2–.93 29.49S 178.52W 170–8 4.5b **¶16459639**
IDC III 30 01 05 04.5–.70 29.46S 178.54W 168–6 4.5,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=13.3km az=96.0.
IDC Error ellipse: s-maj=20.4km s-min=17.0km az=100.0.
IDC III 30 22 35 06.1–6.5 30.78S 178.61W 0 3.9,3.7
¶17199233

IDC Error ellipse: s-maj=264.3km s-min=51.9km az=152.0.
ISC IV 01 23 53 20.4–2.7 30.8S–.10 178.5W–.40 35 11 7-145
IDC IV 01 23 53 14.8–3.4 30.69S 178.36W 0 4.3,4.1 **¶17199469**
ISC Event type ke.
IDC Error ellipse: s-maj=75.2km s-min=49.7km az=111.0.
ISC IV 03 14 43 40.7–2.0 30.8S–.10 177.3W–.30 33 4.5b 14 9-152
IDC IV 03 14 43 37.8–1.7 30.79S 177.55W 0 4.5,4.4 **¶16499046**
ISCJB IV 03 14 43 39.4–3.9 30.8S–.10 177.4W–.60 33 4.4b,4.4
NEIC IV 03 14 43 44.6–8.0 30.85S 177.59W 48–74 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=49.1km s-min=27.5km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=70.4km s-min=12.9km az=6.4.
NEIC Event type se. Error ellipse: s-maj=80.2km s-min=25.3km az=189.0.
IDC IV 04 12 50 41.7–7.6 30.70S 178.40W 0 3.6,3.5
¶17199768

IDC Error ellipse: s-maj=312.9km s-min=61.4km az=156.0.
IDC IV 05 04 59 15.3–4.0 29.36S 177.58W 0 4.1,3.9
¶17199852

IDC Error ellipse: s-maj=213.6km s-min=45.3km az=157.0.
ISC IV 06 14 55 32.4–1.2 30.4S–.10 177.6W–.20 33 4.5b 16 9-163
IDC IV 06 14 55 27.6–1.1 30.25S 177.58W 0 4.5,4.5b **¶17200017**
ISCJB IV 06 14 55 30.6–4.1 30.5S–.10 177.6W–.60 33 4.3b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 07 18 45 57.2–2.5 30.4S–.20 177.1W–.40 10 4.1b 8 9-153
IDC IV 07 18 45 55.4–2.0 30.66S 177.00W 0 4.4L,4.3 **¶16577734**
NEIC IV 07 18 46 00.4–1.4 30.81S 177.01W 35 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=63.8km s-min=36.3km az=141.0.
NEIC Event type se. Error ellipse: s-maj=36.1km s-min=20.7km az=116.0.
ISC IV 11 13 33 40.8–.29 29.71S–.05 177.23W–.05 24 5.0b,4.3s 325 1-163
IDC IV 11 13 33 36.5–.50 29.45S 177.15W 0 4.7,4.6 **¶16417142**
ISCJB IV 11 13 33 39.4–.18 29.75S–.03 177.38W–.04 24 5.0b,4.3s
BJI IV 11 13 33 41.3 29.40S 177.07W 41 5.5b,5.2s
MOS IV 11 13 33 41.2–1.2 29.43S 177.32W 33 5.2b,5.2s
GCMT IV 11 13 33 42.6–.30 29.30S 176.99W 38–1 5.2W,5.2s
NEIC IV 11 13 33 42.6–.92 29.56S 177.37W 39–8 5.0b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=13.1km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=2.9km az=27.9.
MOS Error ellipse: s-maj=11.0km s-min=10.5km az=44.6.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s68,c93; Duration: 1^{9}0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.04 $M_{\theta\theta}$-0.13±.03; $M_{\phi\phi}$-0.64±.03; $M_{r\theta}$0.01±.03; $M_{\theta\phi}$-0.01±.02; $M_{\phi r}$0.38±.02; Best double couple: NP1:ϕ_s2.00000°,δ59.00000° ,λ90.00000°. NP2:ϕ_s182.00000°,δ31.00000°,λ90.00000°. Principal axes: T 0.8710,Plg76.0000°,Azm272.0000°; N -0.1330,Plg0.0000°,Azm182.0000° ; P -0.7390,Plg14.0000°,Azm92.0000° $M_0$0.80500×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.7km az=132.0.
IDC IV 12 03 20 49.8–3.0 30.18S 177.43W 0 4.0,3.9
¶17200720

IDC Error ellipse: s-maj=61.2km s-min=26.3km az=89.0.
ISC IV 19 00 04 12.8–1.1 30.26S–.07 177.6W–.20 33 4.5b 19 1-153
IDC IV 19 00 04 07.5–1.3 30.37S 177.42W 0 4.5,4.4 **¶16505434**
ISCJB IV 19 00 04 10.8–3.6 30.29S–.06 178.0W–.20 15–28 4.5b,4.4
NEIC IV 19 00 04 11.9–3.2 30.33S 177.52W 28–21 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=20.7km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=29.8km s-min=8.0km az=12.4.
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=10.5km az=101.0.
IDC IV 19 22 47 32.5–5.0 30.03S 178.55W 0 3.8,3.6
¶17201558

IDC Error ellipse: s-maj=256.7km s-min=75.0km az=166.0.
ISC IV 20 08 35 11.2–.34 30.48S–.05 177.99W–.07 43–2 5.1b,3.8s 330 1-163
MOS IV 20 08 35 09.5–1.3 30.21S 177.99W 33 5.1b,3.8s **¶16448751**
ISCJB IV 20 08 35 11.6–.17 30.65S–.03 178.02W–.05 61 5.0b,3.8s
BJI IV 20 08 35 12.0 30.65S 177.95W 61 5.3b,5.3b
IDC IV 20 08 35 13.3–.50 29.95S 178.02W 61–4 4.6,4.5
NEIC IV 20 08 35 13.6–.18 30.16S 178.08W 62 5.0b,4.5
ISC Event type se.
MOS Error ellipse: s-maj=12.3km s-min=9.8km az=58.3.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=2.5km az=26.6.
IDC Error ellipse: s-maj=15.2km s-min=8.1km az=94.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.3km az=137.0.
ISC IV 21 16 01 14.5–1.2 29.45S–.09 177.5W–.20 57 4.4b 32 0-151
IDC IV 21 16 01 07.5–1.9 28.79S 177.45W 0 4.2,4.1 **¶16505468**
NEIC IV 21 16 01 11.6–3.1 29.31S 177.12W 48–19 4.7b,4.1
ISCJB IV 21 16 01 12.1–1.8 29.42S–.10 177.3W–.20 57 4.5b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 22 22 13 18.4–3.2 30.25S 177.88W 0 3.9,3.7
¶17201841

IDC Error ellipse: s-maj=70.4km s-min=21.3km az=113.0.
IDC IV 23 22 46 08.6–3.1 30.34S 177.43W 0 3.7,3.4
¶17201914

IDC Error ellipse: s-maj=177.6km s-min=24.2km az=160.0.
ISC IV 24 17 09 23.7–1.7 30.5S–.10 177.9W–.40 150 3.9b 29 1-145
IDC IV 24 17 09 24.6–1.8 30.46S 178.03W 122–11 4.1,3.9 **¶17201972**
ISC Event type ke.
IDC Error ellipse: s-maj=44.6km s-min=16.0km az=106.0.
IDC IV 25 13 53 36.3–5.1 30.07S 177.86W 51–43 3.2,3.2
¶17202051

IDC Error ellipse: s-maj=64.2km s-min=50.9km az=127.0.
IDC V 08 06 07 48.2–2.4 29.98S 177.78W 0 3.6,3.4
¶17203029

IDC Error ellipse: s-maj=56.6km s-min=20.3km az=100.0.
IDC V 08 23 59 12.8–5.4 29.42S 178.88W 0 3.8,3.6
¶17203092

IDC Error ellipse: s-maj=256.1km s-min=83.9km az=165.0.
IDC V 10 07 13 49.8–1.5 29.77S 177.43W 0 4.1,3.8

¶17203187
IDC Error ellipse: s-maj=35.1km s-min=20.9km az=49.0.
IDC V 11 00 27 33.9–2.5 30.03S 177.25W 0 4.2,3.9
¶17203336
IDC Error ellipse: s-maj=53.9km s-min=28.5km az=70.0.
ISC V 12 18 17 57.2–.34 30.63S–.04 178.74W–.08 150 5.0b 261 2-172
NEIC V 12 18 17 53.8–.72 30.76S 178.46W 126–6 5.1b ¶16560044
BJI V 12 18 17 54.7 30.17S 178.35W 136 5.2b,5.1b
MOS V 12 18 17 55.9–1.7 30.30S 178.86W 133 4.6b,5.1b
ISCJB V 12 18 17 56.1–.33 30.72S–.03 178.69W–.08 150 4.9b,5.1b
IDC V 12 18 17 56.8–.73 30.26S 178.63W 139–6 4.8,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=5.9km az=111.0.
MOS Error ellipse: s-maj=15.5km s-min=12.4km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=3.7km az=15.1.
IDC Error ellipse: s-maj=17.7km s-min=12.7km az=112.0.
IDC V 17 18 35 36.1–3.0 30.31S 177.75W 0 4.3,4.1
¶17203832
IDC Error ellipse: s-maj=64.9km s-min=21.6km az=109.0.
IDC V 17 20 46 59.8–4.6 29.90S 178.66W 0 4.5,4.2
¶17203838
IDC Error ellipse: s-maj=210.1km s-min=72.6km az=165.0.
ISC V 18 02 03 01.9–1.6 30.54S–.08 177.7W–.20 33 4.2b 14 1-163
IDC V 18 02 02 57.2–1.5 30.61S 177.71W 0 4.2,4.0 ¶16591591
ISCJB V 18 02 02 59.8–2.9 30.62S–.09 177.7W–.50 33 4.1b,4.0
NEIC V 18 02 03 01.7–3.4 30.59S 177.71W 31–23 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=38.6km s-min=23.8km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=58.2km s-min=7.4km az=11.1.
NEIC Event type se. Error ellipse: s-maj=22.2km s-min=11.7km az=104.0.
ISC V 21 19 06 53.2–.74 30.06S–.05 177.6W–.10 35 4.5b 62 1-153
IDC V 21 19 06 47.9–1.1 30.10S 177.45W 0 4.5,4.4b ¶16560115
NEIC V 21 19 06 52.0–2.9 30.13S 177.55W 27–19 4.5b,4.4b
ISCJB V 21 19 06 52.2–.61 30.17S–.04 177.7W–.10 35 4.5b,4.4b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 21 19 22 48.3–3.6 30.31S 177.53W 0 3.7,3.5
¶17204162
IDC Error ellipse: s-maj=75.3km s-min=35.0km az=110.0.
ISC V 21 21 17 02.2–.48 30.85S–.03 178.11W–.03 34–1 5.6b,5.4s 1200 2-172
ISCJB V 21 21 16 58.5–.09 30.92S–.02 178.17W–.03 17 5.6b,5.4s ¶16560116
BJI V 21 21 16 58.2 30.21S 177.49W 19 5.8b,5.6b
MOS V 21 21 17 01.6–1.1 30.70S 178.15W 33 5.7b,5.5s
NEIC V 21 21 17 02.0–.00 30.82S 178.17W 34 5.7b,5.5s
NEIC V 21 21 17 02.4–.13 30.82S 178.17W 34 5.9W,5.8
GCMT V 21 21 17 02.4–.10 30.81S 177.96W 53–0 5.8W,5.8
IDC V 21 21 17 03.4–1.0 30.58S 178.17W 44–8 5.3,5.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=1.9km az=31.1.
MOS Error ellipse: s-maj=8.3km s-min=6.3km az=84.9.
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}6.81 $M_{\theta\theta}$1.62 $M_{\phi\phi}$-8.43 $M_{r\theta}$-1.18 $M_{\theta\phi}$-0.91 $M_{\phi r}$0.07 Best double couple: NP1:ϕ_s197.00000° ,δ46.00000°,λ107.00000°. NP2:ϕ_s353.00000°,δ46.00000°,λ73.00000°. Principal axes: T 7.0700,Plg77.0000°,Azm184.0000°; N 1.4400,Plg12.0000°,Azm5.0000° ; P -8.5100,Plg0.0000°,Azm275.0000° $M_0$7.90000×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.5km az=129.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}5.88 $M_{\theta\theta}$-2.61 $M_{\phi\phi}$-3.27 $M_{r\theta}$-0.35 $M_{\theta\phi}$-2.05 $M_{\phi r}$-0.25 Best double couple: NP1:ϕ_s221.00000°,δ47.00000°,λ91.00000°. NP2: ϕ_s40.00000°,δ43.00000°,λ89.00000°. Principal axes: T 5.9000,Plg88.0000°,Azm152.0000° ; N -0.8700,Plg1.0000°,Azm41.0000°; P -5.0400,Plg2.0000°,Azm310.0000° $M_0$5.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c281; s128,c368;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}6.91±.06 $M_{\theta\theta}$-0.37±.05; $M_{\phi\phi}$-6.54±.05; $M_{r\theta}$-0.25±.05; $M_{\theta\phi}$-2.05±.04; $M_{\phi r}$0.66±.05; Best double couple: NP1: ϕ_s13.00000°,δ47.00000°,λ85.00000°. NP2:ϕ_s200.00000°,δ43.00000°,λ95.00000°. Principal axes: T 6.9590,Plg86.0000°,Azm229.0000°; N 0.2230,Plg4.0000°,Azm17.0000° ; P -7.1810,Plg2.0000°,Azm107.0000° $M_0$7.07000×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=5.0.
ISC V 21 21 30 48.7–.93 30.87S–.10 177.2W–.10 35 4.7b 18 2-152
ISCJB V 21 21 30 46.3–.78 30.92S–.08 177.2W–.10 33 4.8b ¶16596572
IDC V 21 21 30 47.9–2.5 30.75S 178.01W 0 4.3,4.1
NEIC V 21 21 30 47.6–.86 31.04S 177.11W 35 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=11.6km az=4.7.
IDC Error ellipse: s-maj=62.8km s-min=22.4km az=120.0.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=13.5km az=135.0.
IDC V 22 19 40 57.6–6.9 30.87S 178.14W 0 3.9,3.6
¶17204256
IDC Error ellipse: s-maj=287.9km s-min=57.2km az=156.0.
IDC V 23 14 35 51.4–3.3 29.92S 177.13W 0 3.7,3.5
¶17204303
IDC Error ellipse: s-maj=63.4km s-min=31.0km az=77.0.
ISC V 23 16 56 36.3–1.5 30.85S–.08 177.8W–.20 35 4.1b 12 2-146
IDC V 23 16 56 30.8–3.2 30.98S 177.62W 0 4.1,4.0b ¶16593311
ISCJB V 23 16 56 35.2–1.5 30.99S–.08 177.9W–.20 35 4.0b,4.0b
NEIC V 23 16 56 36.5–1.3 30.89S 177.74W 35 4.5b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=66.7km s-min=24.8km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=31.2km s-min=10.1km az=12.3.
NEIC Event type se. Error ellipse: s-maj=28.6km s-min=14.8km az=98.0.
IDC V 25 18 29 08.9–6.1 30.44S 178.55W 0 3.8,3.5
¶17204466
IDC Error ellipse: s-maj=242.6km s-min=55.7km az=155.0.
IDC V 25 18 39 02.0–4.3 29.95S 177.04W 0 3.9,3.6
¶17204467
IDC Error ellipse: s-maj=237.3km s-min=41.6km az=160.0.
ISC V 25 20 06 41.1–1.6 30.9S–.10 177.9W–.30 46 4.3b 12 2-153
IDC V 25 20 06 35.1–1.7 31.00S 177.81W 0 4.5,4.4 ¶16710925
NEIC V 25 20 06 40.1–1.2 31.00S 177.86W 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=47.1km s-min=22.8km az=121.0.
NEIC Event type se. Error ellipse: s-maj=35.8km s-min=15.3km az=112.0.
IDC V 26 19 36 19.5–7.4 30.98S 178.34W 0 3.8,3.5
¶17204527
IDC Error ellipse: s-maj=311.3km s-min=60.6km az=156.0.
ISC V 28 10 41 29.4–.89 30.21S–.08 177.5W–.10 35 4.5b 23 1-163
ISCJB V 28 10 41 28.7–1.0 30.29S–.07 177.8W–.20 35 4.5b ¶16711121
IDC V 28 10 41 32.5–1.9 30.11S 177.87W 58–16 4.2,4.1
NEIC V 28 10 41 32.7–1.3 30.06S 177.76W 64–9 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.4km s-min=9.4km az=11.1.
IDC Error ellipse: s-maj=29.8km s-min=22.7km az=116.0.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=11.8km az=127.0.
IDC V 29 11 27 17.4–9.9 29.69S 178.84W 393–102 3.6,3.0
¶17204693
IDC Error ellipse: s-maj=98.5km s-min=41.6km az=16.0.
ISC V 31 23 50 24.3–1.0 30.82S–.07 177.9W–.20 46 4.6b,3.6s 44 2-153
ISCJB V 31 23 50 22.6–1.2 30.99S–.05 177.8W–.20 46 4.5b,3.5s ¶16722579
NEIC V 31 23 50 23.6–1.8 30.80S 177.69W 41–13 4.5b,3.5s
IDC V 31 23 50 25.7–3.9 30.61S 177.94W 47–31 4.5,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.3km s-min=7.0km az=5.3.
NEIC Event type se. Error ellipse: s-maj=26.5km s-min=14.5km az=105.0.
IDC Error ellipse: s-maj=42.1km s-min=20.6km az=126.0.
IDC VI 03 18 53 31.6–6.2 30.63S 178.35W 0 3.9,3.6
¶17205114
IDC Error ellipse: s-maj=240.8km s-min=59.2km az=155.0.
IDC VI 04 04 14 28.0–4.2 30.04S 178.22W 90–33 3.7,3.5
¶17205157
IDC Error ellipse: s-maj=100.6km s-min=51.2km az=154.0.
IDC VI 04 13 23 20.7–5.5 30.18S 177.78W 0 3.8,3.6
¶17205211
IDC Error ellipse: s-maj=216.0km s-min=49.7km az=151.0.
IDC VI 06 03 36 57.9–3.5 29.99S 178.37W 0 4.4,4.1b
¶17205381
IDC Error ellipse: s-maj=237.8km s-min=51.6km az=167.0.
ISC VI 09 20 16 29.5–.40 30.37S–.04 177.98W–.04 41–3 5.5b,5.1s 938 1-172
NEIC VI 09 20 16 28.3–1.4 30.42S 178.06W 31–9 5.6W,5.4b ¶602918590
MOS VI 09 20 16 28.3–1.1 30.22S 178.06W 33 5.7b,5.1s
GCMT VI 09 20 16 28.3–.10 30.29S 177.64W 46–0 5.6W,5.1s
ISCJB VI 09 20 16 28.2–.10 30.66S–.02 178.08W–.03 45 5.5b,5.1s
BJI VI 09 20 16 28.6 29.72S 177.22W 48 5.5b,5.3b
IDC VI 09 20 16 29.6–1.5 30.22S 177.90W 39–11 5.2,5.0
NEIC VI 09 20 16 30.0–.00 30.36S 177.92W 35 5.2,5.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=137.0.
MOS Error ellipse: s-maj=9.7km s-min=7.1km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c231; s120,c273;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.47±.03 $M_{\theta\theta}$0.07±.03; $M_{\phi\phi}$-2.53±.02; $M_{r\theta}$0.11±.03; $M_{\theta\phi}$-0.23±.02; $M_{\phi r}$1.21±.03; Best double couple: NP1:ϕ_s5.00000° ,δ58.00000°,λ90.00000°. NP2:ϕ_s185.00000°,δ32.00000°,λ90.00000°. Principal axes: T 2.7480,Plg77.0000°,Azm275.0000°; N 0.0880,Plg0.0000°,Azm5.0000° ; P -2.8290,Plg13.0000°,Azm95.0000° $M_0$2.78900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=1.8km az=28.8.
IDC Error ellipse: s-maj=12.4km s-min=11.6km az=29.0.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}2.49 $M_{\theta\theta}$0.04 $M_{\phi\phi}$-2.54 $M_{r\theta}$-0.55 $M_{\theta\phi}$-0.52 $M_{\phi r}$1.92 Best double couple: NP1:ϕ_s355.00000° ,δ64.00000°,λ75.00000°. NP2:ϕ_s206.00000°,δ29.00000°,λ118.00000°. Principal axes: T 3.2900,Plg67.0000°,Azm237.0000°; N -0.0700,Plg13.0000°,Azm1.0000° ; P -3.2200,Plg17.0000°,Azm95.0000° $M_0$3.30000×10^{17}
IDC VI 10 13 08 03.4–.95 29.58S 178.24W 220–7 3.8,3.4
¶17205707
IDC Error ellipse: s-maj=40.8km s-min=21.9km az=119.0.
IDC VI 14 13 32 37.6–4.7 30.41S 178.21W 78–38 3.6,3.6
¶17206116
IDC Error ellipse: s-maj=62.2km s-min=35.1km az=159.0.
ISC VI 15 01 06 15.6–1.7 30.3S–.10 177.8W–.30 46 4.2b 8 1-163
IDC VI 15 01 06 09.6–1.5 30.32S 177.85W 0 4.3,4.1 ¶17206146
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=19.6km az=105.0.
ISC VI 20 06 25 05.9–2.1 31.0S–.10 177.8W–.30 27 4.0b 9 2-152
IDC VI 20 06 25 01.8–2.1 31.05S 177.72W 0 4.1,4.0b ¶17206579
ISCJB VI 20 06 25 04.3–3.0 31.0S–.10 177.8W–.50 27 3.9b,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 20 13 06 56.8–6.0 30.19S 177.82W 0 3.6,3.4
¶17206599
IDC Error ellipse: s-maj=238.8km s-min=56.0km az=155.0.
IDC VI 20 16 29 06.1–7.8 30.36S 177.72W 0 3.4,3.3
¶17206610
IDC Error ellipse: s-maj=333.7km s-min=56.3km az=155.0.
ISC VI 21 11 47 24.2–.35 30.69S–.05 177.31W–.06 33 4.9b,4.4s 198 2-163
IDC VI 21 11 47 23.5–4.0 30.26S 177.47W 25–25 4.5,4.5 ¶16640774
ISCJB VI 21 11 47 23.4–.25 30.74S–.03 177.53W–.06 33 4.9b,4.4s
BJI VI 21 11 47 23.6 30.40S 177.60W 20 5.5b,5.1b
MOS VI 21 11 47 24.0–1.2 30.25S 177.69W 31 5.2b,4.5s
NEIC VI 21 11 47 24.9–.32 30.53S 177.71W 35 4.9b,4.5s
GCMT VI 21 11 47 25.0–.30 30.33S 177.29W 33–1 5.1W,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=3.1km az=24.4.
MOS Error ellipse: s-maj=14.5km s-min=11.2km az=80.9.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=6.5km az=122.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s73,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.44±.27 $M_{\theta\theta}$0.04±.18; $M_{\phi\phi}$-4.49±.17; $M_{r\theta}$0.78±.23; $M_{\theta\phi}$-2.02±.11; $M_{\phi r}$3.22±.19; Best double couple: NP1:ϕ_s16.00000°,δ62.00000° ,λ85.00000°. NP2:ϕ_s207.00000°,δ28.00000°,λ99.00000°. Principal axes: T 5.4830,Plg72.0000°,Azm275.0000°; N 0.7830,Plg4.0000°,Azm18.0000° ; P -6.2700,Plg17.0000°,Azm110.0000° $M_0$5.87700×10^{16}
ISC VI 22 16 00 06.1–.93 30.29S–.07 177.9W–.20 35 4.4b 25 1-163
IDC VI 22 16 00 00.4–1.2 30.35S 177.57W 0 4.4,4.3 ¶16720972
ISCJB VI 22 16 00 04.5–1.0 30.37S–.05 177.9W–.20 35 4.4b,4.3
NEIC VI 22 16 00 06.4–2.2 30.22S 177.64W 38–17 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=34.0km s-min=20.8km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=23.8km s-min=6.4km az=10.3.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=15.4km az=127.0.
IDC VI 22 16 32 45.8–5.2 29.69S 178.50W 0 3.8,3.5
¶17206763
IDC Error ellipse: s-maj=223.7km s-min=18.1km az=154.0.
ISC VI 22 22 18 58.3–.93 30.85S–.06 178.0W–.20 46 4.8b 42 2-162
ISCJB VI 22 22 18 52.4–1.7 31.00S–.05 177.6W–.30 33 4.9b ¶16720974
IDC VI 22 22 18 53.3–1.1 30.68S 177.94W 0 4.9,4.9
NEIC VI 22 22 18 59.0–.81 30.62S 178.10W 35 4.7b,4.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=33.1km s-min=5.0km az=7.8.
IDC Error ellipse: s-maj=30.7km s-min=20.5km az=116.0.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=15.3km az=139.0.
IDC VI 25 21 12 38.9–7.7 30.42S 178.17W 0 4.1s,4.0
¶17206943
IDC Error ellipse: s-maj=324.5km s-min=57.3km az=156.0.
IDC VI 26 04 23 54.4–3.0 30.07S 177.41W 0 3.9,3.7
¶17206958
IDC Error ellipse: s-maj=60.6km s-min=34.3km az=97.0.

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ISC I 01 20 15 20.5–2.8 33.7S–.20 178.2W–.40 41 12 5-148
IDC I 01 20 15 18.2–3.0 33.61S 178.59W 0 3.9,3.7 ¶17189155
ISCJB I 01 20 15 20.2–2.6 33.8S–.10 178.3W–.40 41 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 02 13 10 07.0–1.8 32.5S–.10 179.5E–.20 372 41 5-146
ISCJB I 02 13 10 04.8–1.1 32.33S–.07 179.6E–.20 372 3.2b ¶17189220
IDC I 02 13 10 05.1–8.1 32.33S 179.72E 367–94 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.1km s-min=8.9km az=3.9.
IDC Error ellipse: s-maj=109.6km s-min=41.8km az=2.0.
ISC I 04 14 45 48.4–2.7 32.7S–.10 178.4W–.40 34 11 6-147
ISCJB I 04 14 45 46.3–2.7 32.8S–.10 178.3W–.40 34 3.2b ¶17189430
IDC I 04 14 45 46.3–5.9 32.01S 178.76W 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=54.0km s-min=12.2km az=10.3.
IDC Error ellipse: s-maj=249.6km s-min=56.3km az=159.0.
ISC I 05 12 04 30.2–2.6 33.6S–.20 178.2W–.40 41 13 6-148
IDC I 05 12 04 28.1–3.2 33.44S 178.73W 0 4.0,3.8 ¶17189503
ISCJB I 05 12 04 29.6–2.2 33.6S–.10 178.4W–.30 41 3.5b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC I 05 21 36 38.0–1.1 33.60S–.08 179.2E–.20 200 3.9b 56 4-160
ISCJB I 05 21 36 36.2–.81 33.56S–.05 179.2E–.20 200 3.8b ¶17189544
IDC I 05 21 36 36.4–3.9 33.53S 179.51E 189–33 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=6.7km az=5.6.
IDC Error ellipse: s-maj=34.9km s-min=20.6km az=37.0.
ISC I 09 13 51 27.8–1.6 33.9S–.10 178.0W–.20 35 4.2b 27 5-154
ISCJB I 09 13 51 24.7–1.6 33.87S–.09 178.0W–.20 35 4.1b ¶15994798
IDC I 09 13 51 24.5–2.2 33.76S 178.46W 0 4.5,4.3
NEIC I 09 13 51 36.4–5.3 34.26S 178.62W 94–39 4.2b,4.3

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.9km s-min=8.4km az=19.5.
IDC Error ellipse: s-maj=62.5km s-min=33.1km az=129.0.
NEIC Event type se. Error ellipse: s-maj=64.5km s-min=33.1km az=215.0.
IDC I 09 21 42 01.9–3.1 33.64S 178.58W 0 3.9,3.7
¶17189795

IDC Error ellipse: s-maj=74.0km s-min=36.6km az=119.0.
IDC I 10 00 34 38.0–3.1 33.73S 178.43W 0 3.8,3.6
¶17189802

IDC Error ellipse: s-maj=76.9km s-min=36.7km az=121.0.
ISC I 10 05 10 27.9–.78 33.80S–.08 178.5W–.10 41 4.5b,3.7s 58 5-159
IDC I 10 05 10 22.6–.71 33.62S 178.67W 0 4.6,4.5 **¶16019193**
NEIC I 10 05 10 28.9–2.9 33.79S 178.70W 44–23 4.5b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=21.5km az=124.0.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=14.2km az=222.0.
ISC I 10 05 45 59.4–1.5 33.7S–.10 178.7W–.20 41 14 5-153
IDC I 10 05 45 53.3–2.4 33.62S 178.60W 0 4.0,3.8 **¶17189822**
ISCJB I 10 05 45 57.5–1.5 33.72S–.09 178.6W–.20 41 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 10 10 33 45.8–2.7 33.6S–.20 178.1W–.40 34 18 5-148
IDC I 10 10 33 44.1–3.3 33.54S 178.52W 0 4.1,4.0L **¶17189842**
ISCJB I 10 10 33 45.3–1.8 33.7S–.10 178.2W–.30 34 3.6b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC I 10 10 36 02.5–1.2 33.8S–.10 178.2W–.20 35 4.4b 35 5-159
IDC I 10 10 35 57.9–1.4 33.78S 178.34W 0 4.5,4.3 **¶16150971**
ISCJB I 10 10 36 00.1–1.4 33.84S–.07 178.2W–.20 35 4.3b,4.3
NEIC I 10 10 36 02.8–.89 33.99S 178.33W 35 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=46.2km s-min=27.6km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=27.5km s-min=8.0km az=15.8.
NEIC Event type se. Error ellipse: s-maj=24.2km s-min=15.6km az=125.0.
ISC I 10 14 21 52.7–2.2 33.5S–.10 178.7W–.40 41 17 5-148
IDC I 10 14 21 47.2–2.6 33.56S 178.58W 0 4.1,4.0L **¶17189858**
ISCJB I 10 14 21 51.6–1.9 33.6S–.10 178.7W–.30 41 3.6b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC I 10 14 33 12.1–2.3 33.6S–.20 178.1W–.40 41 15 5-148
IDC I 10 14 33 08.7–2.7 33.60S 178.47W 0 4.1,3.9 **¶17189860**
ISC Event type ke.
IDC Error ellipse: s-maj=70.4km s-min=36.2km az=122.0.
ISC I 10 14 54 58.2–1.9 32.4S–.10 179.0E–.20 350 54 5-146
IDC I 10 14 54 51.9–8.2 32.22S 179.91E 330–91 4.0,3.4 **¶17189863**
ISCJB I 10 14 54 57.4–1.4 32.30S–.08 178.8E–.20 350 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC I 14 14 53 16.3–2.7 32.5S–.10 177.9W–.40 20 4.1b 16 6-147
IDC I 14 14 53 15.8–3.0 32.49S 178.13W 0 4.0,3.8 **¶16151398**
NEIC I 14 14 53 17.1–2.3 32.44S 178.23W 10 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=70.4km s-min=36.0km az=116.0.
NEIC Event type se. Error ellipse: s-maj=46.2km s-min=24.9km az=98.0.
ISC I 16 02 44 05.5–2.1 32.4S–.10 179.4E–.30 500 22 5-146
ISCJB I 16 02 44 04.2–1.5 32.32S–.09 179.4E–.30 500 3.4b **¶17190288**
IDC I 16 02 44 04.8–6.8 32.32S 179.40E 495–91 3.8,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.7km s-min=11.8km az=173.3.
IDC Error ellipse: s-maj=114.7km s-min=37.3km az=5.0.
ISC I 17 22 49 46.2–1.5 32.5S–.10 178.2W–.30 20 4.2b 10 7-161
IDC I 17 22 49 42.9–1.4 32.31S 178.17W 0 4.3,4.1 **¶17190433**
ISC Event type ke.
IDC Error ellipse: s-maj=41.7km s-min=35.5km az=160.0.
IDC I 19 17 17 01.4–3.4 33.62S 178.67W 0 3.7,3.5
¶17190572

IDC Error ellipse: s-maj=77.3km s-min=37.5km az=116.0.
ISC I 20 18 12 20.8–.62 32.31S–.06 178.1W–.10 35 4.5b,3.9s 46 3-161
IDC I 20 18 12 15.7–.92 32.43S 178.12W 0 4.6,4.5 **¶16019246**
ISCJB I 20 18 12 20.0–.76 32.43S–.05 178.3W–.10 35 4.5b,4.0s
NEIC I 20 18 12 19.7–3.1 32.27S 178.13W 24–21 4.8b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=21.1km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=6.4km az=11.6.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=10.6km az=107.0.
ISC I 20 18 26 07.9–1.9 32.3S–.20 178.1W–.30 24 4.1b 7 7-161
IDC I 20 18 26 02.9–1.8 32.01S 177.90W 0 4.2,4.0 **¶17190640**
ISC Event type ke.
IDC Error ellipse: s-maj=43.7km s-min=40.5km az=6.0.
ISC I 22 00 02 08.5–.60 33.59S–.06 178.5W–.10 41 4.7b 54 4-160
IDC I 22 00 02 02.9–.85 33.58S 178.42W 0 4.7,4.6 **¶16019248**
NEIC I 22 00 02 03.8–2.9 33.57S 178.43W 5–17 4.6b,4.6
ISCJB I 22 00 02 06.1–.67 33.76S–.05 178.4W–.10 41 4.8b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 22 09 48 42.5–1.9 32.16S 178.14W 0 4.1,3.9
¶17190733

IDC Error ellipse: s-maj=43.8km s-min=36.1km az=104.0.
IDC I 23 19 03 32.1–3.4 34.50S 178.52W 0 3.8,3.7
¶17190826

IDC Error ellipse: s-maj=81.7km s-min=38.1km az=125.0.
ISC I 27 16 19 14.0–1.5 33.66S–.09 178.7W–.10 48 4.2b 56 5-160
IDC I 27 16 19 09.4–1.4 33.29S 179.15W 0 4.6,4.3 **¶17191121**
ISCJB I 27 16 19 10.0–1.1 33.64S–.07 178.6W–.20 48 4.2b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 20 05 22.8–1.5 32.8S–.10 178.7W–.30 33 16 6-160
IDC I 27 20 05 18.5–1.3 32.50S 178.69W 0 4.3,4.0 **¶17191143**
ISCJB I 27 20 05 20.8–2.2 32.85S–.09 178.6W–.40 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 03 20 35 01.1–1.9 34.5S–.10 179.7E–.20 35 37 3-148
IDC II 03 20 34 56.3–2.9 34.35S 179.73E 0 4.6L,3.8 **¶17191616**
ISC Event type ke.
IDC Error ellipse: s-maj=65.0km s-min=45.3km az=110.0.
ISC II 09 11 27 50.3–1.2 33.19S–.09 178.1W–.20 34 4.5b 42 5-154
IDC II 09 11 27 45.6–1.3 33.15S 178.25W 0 4.6,4.5b **¶16168819**
ISCJB II 09 11 27 47.0–1.3 33.17S–.06 178.0W–.20 34 4.4b,2.9s
NEIC II 09 11 27 50.8–.91 33.24S 178.25W 35 4.5b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=38.9km s-min=27.3km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=24.2km s-min=7.3km az=14.4.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=15.1km az=127.0.
ISC II 09 11 32 48.8–2.7 33.1S–.20 177.9W–.40 34 17 6-148
IDC II 09 11 32 47.8–3.0 32.76S 178.54W 0 3.9,3.7 **¶17191943**
ISC Event type ke.
IDC Error ellipse: s-maj=72.1km s-min=44.8km az=121.0.
IDC II 12 14 52 14.3–3.3 32.12S 179.39W 0 4.0,3.8
¶17192120

IDC Error ellipse: s-maj=71.9km s-min=49.2km az=107.0.
IDC II 13 06 18 05.7–3.4 33.51S 178.04W 0 3.9,3.7
¶17192142

IDC Error ellipse: s-maj=80.0km s-min=37.6km az=120.0.
ISC II 17 15 48 50.9–1.0 33.0S–.10 178.4W–.20 32 4.5b,3.6s 33 5-153
IDC II 17 15 48 46.3–1.2 32.97S 178.49W 0 4.5,4.3L **¶16176398**
ISCJB II 17 15 48 48.8–.91 33.06S–.06 178.4W–.10 32 4.5b,3.5s
NEIC II 17 15 48 51.5–.68 33.01S 178.40W 35 4.8b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=48.4km s-min=25.7km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=7.8km az=15.0.

NEIC Event type se. Error ellipse: s-maj=19.7km s-min=15.1km az=142.0.
IDC II 17 16 09 31.8–3.0 32.96S 178.51W 0 3.8,3.6
¶17192431

IDC Error ellipse: s-maj=69.8km s-min=36.1km az=116.0.
IDC II 17 18 50 41.1–1.8 32.82S 178.39W 0 4.3,4.1b
¶16168869

IDC Error ellipse: s-maj=61.5km s-min=36.0km az=143.0.
IDC II 18 05 03 46.1–1.6 32.84S 178.51W 0 4.3,4.1
¶17192458

IDC Error ellipse: s-maj=42.4km s-min=40.0km az=152.0.
IDC II 19 15 06 00.8–3.4 33.53S 178.56W 0 3.6,3.5
¶17192540

IDC Error ellipse: s-maj=77.9km s-min=37.3km az=116.0.
ISC II 20 03 45 30.1–2.3 32.2S–.20 178.0W–.30 20 4.0b 7 7-153
IDC II 20 03 45 26.3–2.2 32.02S 177.83W 0 4.1,4.0b **¶16327677**
NEIC II 20 03 45 30.7–1.7 32.38S 177.79W 35 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=60.4km s-min=41.5km az=142.0.
NEIC Event type se. Error ellipse: s-maj=39.3km s-min=17.0km az=100.0.
IDC II 21 18 48 27.4–3.0 32.96S 178.02W 0 3.7,3.5
¶17192651

IDC Error ellipse: s-maj=78.3km s-min=45.5km az=127.0.
ISC II 22 16 03 41.7–1.2 32.8S–.10 178.8W–.20 35 4.3b 14 6-160
IDC II 22 16 03 35.5–1.4 32.79S 178.60W 0 4.4,4.2 **¶16168902**
NEIC II 22 16 03 42.0–6.6 32.68S 178.66W 44–49 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=36.5km s-min=30.8km az=133.0.
NEIC Event type se. Error ellipse: s-maj=65.3km s-min=26.4km az=225.0.
ISC II 26 13 29 22.4–.71 32.47S–.09 179.8E–.20 400 3.6b 89 4-152
IDC II 26 13 29 27.1–1.3 32.89S 179.73E 448–14 4.2,3.5 **¶16168932**
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=16.8km az=151.0.
ISC III 01 16 11 28.7–1.8 32.7S–.10 179.8W–.20 450 3.5b 35 5-147
IDC III 01 16 11 34.2–34 31.24S 179.49E 446–317 4.0,3.2 **¶17193080**
ISC Event type ke.
IDC Error ellipse: s-maj=213.2km s-min=84.1km az=98.0.
IDC III 01 20 36 02.2–4.0 32.11S 177.77W 0 4.1,4.0
¶17193096

IDC Error ellipse: s-maj=149.8km s-min=47.8km az=158.0.
ISC III 02 09 50 09.2–2.1 32.5S–.10 177.3W–.20 35 4.1b 18 6-147
ISCJB III 02 09 50 06.5–2.0 32.46S–.08 177.2W–.30 35 4.0b **¶17193123**
IDC III 02 09 50 10.9–3.9 31.63S 178.32W 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.1km s-min=9.2km az=13.4.
IDC Error ellipse: s-maj=139.8km s-min=47.8km az=157.0.
ISC III 02 22 48 05.3–1.7 34.2S–.10 179.3W–.20 50 29 4-159
IDC III 02 22 47 58.2–2.0 33.98S 179.38W 0 4.2,3.9 **¶17193161**
ISC Event type ke.
IDC Error ellipse: s-maj=74.0km s-min=44.5km az=16.0.
ISC III 03 07 17 50.1–2.0 32.4S–.10 179.1E–.30 150 18 4-161
IDC III 03 07 17 30.9–7.3 32.61S 179.26W 0 4.1,3.9 **¶17193177**
ISC Event type ke.
IDC Error ellipse: s-maj=260.8km s-min=47.4km az=32.0.
ISC III 04 22 21 50.7–.96 34.21S–.09 178.2W–.20 53 4.2b 30 5-159
IDC III 04 22 21 44.4–1.3 33.93S 178.11W 0 5.4L,3.8 **¶16403010**
NEIC III 04 22 21 45.7–.51 33.75S 178.05W 10 4.4b,3.8
ISCJB III 04 22 21 49.2–.91 34.21S–.07 178.3W–.20 53 4.3b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 05 16 36 58.2–4.7 32.02S 177.86W 0 3.8,3.5
¶17193295

IDC Error ellipse: s-maj=273.1km s-min=50.7km az=165.0.
IDC III 05 17 19 10.4–4.7 33.04S 177.42W 0 4.2,3.9
NEIC III 05 17 19 19.1–1.8 31.38S 177.78W 35 4.5b,3.9 **¶16403011**
IDC Error ellipse: s-maj=291.1km s-min=39.7km az=165.0.
NEIC Event type se. Error ellipse: s-maj=69.2km s-min=24.2km az=149.0.
IDC III 06 19 16 21.1–3.8 32.98S 179.93W 0 3.6,3.5
¶17193373

IDC Error ellipse: s-maj=177.4km s-min=57.8km az=165.0.
ISC III 08 08 16 48.3–2.8 33.9S–.20 178.1W–.40 53 11 5-148
ISCJB III 08 08 16 47.8–2.3 34.0S–.10 178.2W–.40 53 3.8b **¶17193458**
IDC III 08 08 16 48.8–7.6 32.42S 179.06W 0 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=46.9km s-min=12.2km az=20.2.
IDC Error ellipse: s-maj=344.5km s-min=58.5km az=160.0.
ISC III 12 19 35 52.8–1.6 34.1S–.10 179.6E–.20 35 19 4-159
IDC III 12 19 35 44.4–8.3 33.59S 179.64W 0 4.5,4.2 **¶17194564**
ISC Event type ke.
IDC Error ellipse: s-maj=297.6km s-min=49.6km az=32.0.
IDC III 17 22 13 12.2–3.1 32.69S 178.40W 0 3.9,3.7
¶17196829

IDC Error ellipse: s-maj=72.5km s-min=45.9km az=121.0.
ISC III 17 23 29 20.2–.74 32.65S–.07 178.4W–.20 32 4.6b 38 3-161
IDC III 17 23 29 15.5–1.0 32.90S 178.28W 0 4.7,4.4 **¶16461901**
ISCJB III 17 23 29 16.5–.95 32.82S–.06 178.1W–.20 32 4.6b,4.4
NEIC III 17 23 29 20.9–.62 32.69S 178.30W 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=37.6km s-min=25.2km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=21.6km s-min=5.2km az=18.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=12.1km az=127.0.
ISC III 21 04 27 05.9–.79 33.19S–.09 178.2W–.10 34 4.3b 38 5-160
IDC III 21 04 27 01.0–.78 33.19S 178.18W 0 4.4,4.2 **¶16450713**
ISCJB III 21 04 27 04.4–.80 33.26S–.06 178.3W–.10 34 4.1b,4.2
NEIC III 21 04 27 06.4–.58 33.09S 178.15W 35 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=21.5km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=6.7km az=18.8.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=13.1km az=167.0.
ISC III 21 21 48 10.0–1.3 33.77S–.09 179.2W–.20 48 29 4-159
IDC III 21 21 48 03.4–1.4 33.49S 179.23W 0 4.3,4.2L **¶16462071**
ISCJB III 21 21 48 09.0–1.6 33.75S–.07 179.3W–.20 48 3.8b,4.2L
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 03 14 50.5–1.6 34.8S–.10 180.0E–.20 35 36 3-149
IDC III 23 03 14 46.8–2.6 34.54S 179.62E 0 4.4L,4.2 **¶17198115**
ISC Event type ke.
IDC Error ellipse: s-maj=58.5km s-min=34.4km az=111.0.
ISC III 23 23 01 15.2–.74 32.34S–.05 179.43W–.08 23–4 5.0b,4.2s 154 3-164
BJI III 23 23 01 15.0 32.40S 179.60W 35 5.6b,5.4s **¶16462144**
ISCJB III 23 23 01 15.5–.31 32.43S–.03 179.63W–.06 29 5.0b,4.4s
NEIC III 23 23 01 17.0–.89 32.40S 179.56W 36–7 5.1b,4.4s
IDC III 23 23 01 16.5–4.4 32.29S 179.50W 33–31 4.6,4.6
GCMT III 23 23 01 17.0–.20 32.26S 179.53W 12 5.2W,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.3km az=13.4.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.0km az=121.0.
IDC Error ellipse: s-maj=18.5km s-min=16.1km az=116.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c92; s90,c157; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.28±.13 $M_{\theta\theta}$0.14±.15; $M_{\phi\phi}$6.13±.11; $M_{r\theta}$-0.06±.41; $M_{\theta\phi}$3.00±.10; $M_{\phi r}$-0.80±.35; Best double couple: NP1:ϕ_s20.00000°,δ48.00000° ,λ-94.00000°. NP2:ϕ_s205.00000°,δ42.00000°,λ-86.00000°. Principal axes: T 7.4170,Plg3.0000°,Azm112.0000°; N -1.0910,Plg3.0000°,Azm22.0000° ; P -6.3340,Plg86.0000°,Azm252.0000° $M_0$6.87600×10^{16}
IDC III 23 23 29 29.7–2.0 32.17S 179.16W 0 4.5,4.4b
¶17198259

IDC Error ellipse: s-maj=47.1km s-min=41.0km az=57.0.
ISC III 26 04 12 37.5–1.6 34.08S–.10 178.4E–.20 200 31 4-159
IDC III 26 04 12 34.0–5.7 34.06S 179.36E 208–46 3.5,3.1 **¶17198604**
ISCJB III 26 04 12 38.7–1.3 34.17S–.07 178.2E–.20 200 3.0b,3.1

ISC Event type ke.
ISCJB Event type ke.
IDC III 27 03 46 40.4–3.2 33.13S 178.34W 0 3.6,3.5
¶17198721
IDC Error ellipse: s-maj=76.6km s-min=37.2km az=117.0.
ISC III 27 08 14 01.6–2.2 32.3S–.10 179.5E–.30 350 22 6-146
IDC III 27 08 14 00.6–8.2 32.31S 179.86E 363–97 3.6,3.0 **¶17198754**
ISCJB III 27 08 14 00.8–1.7 32.16S–.08 179.5E–.30 350 2.7b,3.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 23 12 44.9–.55 33.46S–.07 178.5W–.10 41 4.8b,3.7s 73 5-162
IDC III 28 23 12 38.3–.81 33.34S 178.43W 0 4.8,4.7 **¶16399151**
ISCJB III 28 23 12 44.0–.66 33.53S–.05 178.7W–.10 41 4.7b,3.7s
NEIC III 28 23 12 47.2–2.3 33.50S 178.65W 63–18 4.8b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=33.4km s-min=25.1km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=6.8km az=11.4.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=14.2km az=53.0.
IDC III 29 00 50 16.1–2.0 33.23S 178.53W 0 4.5,4.3b
¶17199016
IDC Error ellipse: s-maj=62.9km s-min=41.2km az=141.0.
IDC III 29 10 22 20.6–5.7 32.85S 178.63W 0 4.3,4.0
¶17199058
IDC Error ellipse: s-maj=242.3km s-min=58.2km az=160.0.
ISC IV 01 06 32 32.2–.92 32.90S–.10 176.4W–.10 35 4.2b 30 7-160
IDC IV 01 06 32 25.9–1.1 32.63S 176.34W 0 4.1,4.0 **¶16485454**
ISCJB IV 01 06 32 29.5–.91 32.98S–.07 176.4W–.10 33 4.2b,4.0
NEIC IV 01 06 32 31.5–.76 32.68S 176.41W 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=39.8km s-min=24.5km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=17.6km s-min=7.0km az=28.5.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=12.7km az=129.0.
WEL IV 01 18 27 45.5–.80 34.97S 178.03E 33 4.2L
¶16403639
WEL Event type ke. Error ellipse: s-maj=12.4km s-min=5.7km az=90.0.
IDC IV 04 04 41 31.0–2.9 33.55S 178.88W 0 4.1,4.1L
¶17199736
IDC Error ellipse: s-maj=68.0km s-min=35.5km az=118.0.
IDC IV 04 09 58 04.7–8.6 32.53S 179.40W 321–97 4.0,3.5
¶17199755
IDC Error ellipse: s-maj=112.7km s-min=46.4km az=179.0.
ISC IV 07 07 03 36.0–1.1 34.50S–.09 178.44E–.09 250 4.3b 105 3-159
NEIC IV 07 07 03 26.7–2.0 33.96S 179.22E 215–16 4.7b **¶16577714**
IDC IV 07 07 03 28.6–3.7 33.92S 179.24E 234–28 4.6,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=23.6km s-min=13.9km az=67.0.
IDC Error ellipse: s-maj=38.1km s-min=14.8km az=44.0.
ISC IV 08 02 36 03.4–2.3 33.5S–.20 177.9W–.30 34 14 5-148
IDC IV 08 02 36 04.6–2.2 33.59S 177.88W 44–9 3.6,3.6 **¶17200191**
ISC Event type ke.
IDC Error ellipse: s-maj=56.9km s-min=20.8km az=124.0.
WEL IV 08 08 52 56.9–.84 34.89S 178.34E 33 3.6L
¶601003605
WEL Event type ke. Error ellipse: s-maj=12.9km s-min=6.1km az=90.0.
ISC IV 09 08 45 06.7–1.3 32.78S–.09 179.4W–.20 150 30 5-160
ISCJB IV 09 08 45 03.1–1.4 32.70S–.07 179.3W–.20 150 3.7b **¶16506257**
IDC IV 09 08 45 08.1–6.4 32.66S 179.89W 148–54 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=10.2km az=1.9.
IDC Error ellipse: s-maj=54.7km s-min=38.9km az=53.0.
IDC IV 10 14 09 17.6–3.0 32.90S 178.38W 0 3.8,3.6
¶17200469
IDC Error ellipse: s-maj=70.1km s-min=36.1km az=117.0.
ISC IV 14 05 45 19.3–.26 33.03S–.04 178.45W–.04 32 5.5s,5.3b 534 4-172
IDC IV 14 05 45 14.2–.40 32.84S 178.42W 0 5.1,5.1s **¶16505369**
BJI IV 14 05 45 16.9 32.37S 177.92W 23 6.3s,5.9
ISCJB IV 14 05 45 17.9–.19 33.20S–.03 178.54W–.04 32 5.6s,5.2b
GCMT IV 14 05 45 17.3–.20 32.94S 177.96W 20–0 5.4W,5.2b
NEIC IV 14 05 45 17.3–.75 33.05S 178.53W 19–4 5.6s,5.5W
MOS IV 14 05 45 19.1–1.0 32.83S 178.54W 33 5.7s,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=13.8km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=2.8km az=29.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s71,c113; s104,c193;Duration: 1s^2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.98±.03 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$-0.86±.02; $M_{r\theta}$0.18±.04; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$1.11±.05; Best double couple: NP1:ϕ_s12.00000°,δ70.00000°,λ85.00000°. NP2:ϕ_s207.00000°,δ21.00000°,λ104.00000°. Principal axes: T 1.5030,Plg65.0000°,Azm273.0000°; N -0.0200,Plg5.0000°,Azm14.0000° ; P -1.4830,Plg24.0000°,Azm106.0000° $M_0$1.49300×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=128.0. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-0.25 $M_{r\theta}$1.73 $M_{\theta\phi}$0.32 $M_{\phi r}$-0.54 Best double couple: NP1:ϕ_s109.00000°,δ82.00000°,λ83.00000°. NP2:ϕ_s328.00000°,δ11.00000°,λ129.00000°. Principal axes: T 1.9500,Plg53.0000°,Azm10.0000° ; N -0.0700,Plg7.0000°,Azm110.0000°; P -1.8700,Plg36.0000°,Azm205.0000° $M_0$1.90000×10^{17}
MOS Error ellipse: s-maj=11.7km s-min=10.4km az=108.1.
ISC IV 14 07 24 12.1–1.7 33.1S–.10 178.1W–.20 34 4.3b 28 6-148
IDC IV 14 07 24 07.7–2.7 33.13S 178.18W 0 4.4,4.3 **¶16587508**
ISCJB IV 14 07 24 09.1–1.3 33.14S–.06 178.0W–.20 34 4.4b,4.3
NEIC IV 14 07 24 11.5–1.1 33.24S 178.04W 35 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=54.3km s-min=34.3km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=25.4km s-min=7.0km az=12.9.
NEIC Event type se. Error ellipse: s-maj=23.0km s-min=12.3km az=102.0.
ISC IV 14 07 54 19.1–1.1 33.2S–.10 178.3W–.20 32 4.5b 28 5-151
IDC IV 14 07 54 13.7–1.9 33.05S 178.28W 0 4.5,4.2 **¶16587509**
ISCJB IV 14 07 54 18.1–.69 33.16S–.06 178.4W–.10 32 4.6b,4.2
NEIC IV 14 07 54 20.1–.64 33.22S 178.48W 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=57.5km s-min=30.9km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=17.5km s-min=5.7km az=23.0.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=12.0km az=136.0.
IDC IV 14 11 02 55.4–2.8 32.88S 178.43W 0 4.1,3.9
¶17201015
IDC Error ellipse: s-maj=69.4km s-min=43.8km az=127.0.
IDC IV 14 12 47 19.3–6.4 32.38S 178.66W 0 3.7,3.5
¶17201026
IDC Error ellipse: s-maj=274.8km s-min=63.2km az=160.0.
IDC IV 14 18 28 20.9–3.0 32.92S 178.51W 0 3.7,3.5
¶17201046
IDC Error ellipse: s-maj=69.2km s-min=36.1km az=117.0.
IDC IV 14 21 35 39.8–3.0 32.88S 178.25W 0 4.8,4.8s
¶17201065
IDC Error ellipse: s-maj=72.6km s-min=45.0km az=125.0.
ISC IV 14 21 42 46.2–.97 32.93S–.08 178.1W–.20 32 4.5b 36 4-162
ISCJB IV 14 21 42 41.4–1.5 32.98S–.06 177.8W–.20 33 4.5b **¶16505376**
IDC IV 14 21 42 42.7–.97 32.81S 178.38W 0 4.7,4.5
NEIC IV 14 21 42 47.8–.55 32.75S 178.31W 35 4.6b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.6km s-min=5.7km az=13.7.
IDC Error ellipse: s-maj=40.0km s-min=29.8km az=153.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=7.1km az=112.0.
ISC IV 14 21 48 58.5–1.2 32.9S–.10 178.7W–.20 32 4.0b 10 6-147
IDC IV 14 21 48 52.1–2.8 32.78S 178.36W 0 4.2,4.1 **¶16577811**
ISCJB IV 14 21 48 56.2–1.1 33.0S–.10 178.6W–.20 32 4.4b,4.1
NEIC IV 14 21 48 59.0–.92 32.93S 178.66W 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=61.5km s-min=44.1km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=23.4km s-min=11.1km az=31.5.
NEIC Event type se. Error ellipse: s-maj=26.0km s-min=15.8km az=150.0.

ISC IV 14 22 45 57.3–1.2 33.1S–.10 178.1W–.20 34 4.2b 20 7-154
IDC IV 14 22 45 52.6–1.4 33.04S 178.20W 0 4.4,4.3 **¶16505378**
ISCJB IV 14 22 45 54.7–2.0 33.1S–.10 178.1W–.30 34 4.3b,4.3
NEIC IV 14 22 46 00.2–2.6 33.17S 178.30W 54–20 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=46.9km s-min=27.5km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=36.4km s-min=11.6km az=14.2.
NEIC Event type se. Error ellipse: s-maj=25.2km s-min=15.5km az=52.0.
ISC IV 14 23 51 11.2–1.1 32.73S–.10 178.7W–.20 33 4.3b 23 6-161
IDC IV 14 23 51 06.7–1.8 32.60S 178.71W 0 4.2,4.0b **¶16577819**
ISCJB IV 14 23 51 09.7–1.1 32.78S–.07 178.7W–.20 33 4.6b,4.0b
NEIC IV 14 23 51 11.8–.68 32.66S 178.70W 35 4.5b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=46.1km s-min=38.9km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=26.2km s-min=7.0km az=14.6.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=13.0km az=110.0.
ISC IV 15 00 49 57.9–.92 33.0S–.10 178.3W–.10 32 4.4b 22 4-147
IDC IV 15 00 49 53.2–1.6 32.84S 178.22W 0 4.4,4.3 **¶16577822**
ISCJB IV 15 00 49 55.4–.85 33.05S–.09 178.2W–.10 32 4.6b,4.3
NEIC IV 15 00 49 58.4–1.1 32.97S 178.28W 35–10 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=55.3km s-min=35.1km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=20.1km s-min=8.3km az=31.1.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.9km az=137.0.
ISC IV 15 04 28 22.7–1.3 33.16S–.10 178.1W–.20 34 4.3b 20 5-160
IDC IV 15 04 28 18.6–1.2 33.02S 178.33W 0 4.5,4.3 **¶16536012**
ISCJB IV 15 04 28 19.4–2.1 33.17S–.08 178.0W–.30 34 4.2b,4.3
NEIC IV 15 04 28 26.9–5.2 33.22S 178.41W 62–40 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=36.7km s-min=28.9km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=35.6km s-min=8.9km az=11.6.
NEIC Event type se. Error ellipse: s-maj=54.7km s-min=24.6km az=216.0.
IDC IV 15 04 45 55.3–3.4 32.81S 178.52W 0 3.8,3.7
¶17201088
IDC Error ellipse: s-maj=79.2km s-min=49.8km az=118.0.
IDC IV 15 05 38 14.6–3.2 32.89S 178.50W 0 3.8,3.7
¶17201092
IDC Error ellipse: s-maj=73.3km s-min=46.8km az=121.0.
IDC IV 15 17 40 05.3–3.1 32.95S 178.32W 0 3.6,3.5
¶17201156
IDC Error ellipse: s-maj=73.3km s-min=36.5km az=117.0.
IDC IV 15 18 52 35.4–3.0 32.84S 178.50W 0 3.7,3.6
¶17201162
IDC Error ellipse: s-maj=70.7km s-min=36.1km az=117.0.
ISC IV 15 19 04 55.4–2.0 32.8S–.20 178.4W–.40 32 8 7-153
IDC IV 15 19 04 50.7–1.6 32.80S 178.39W 0 4.2,4.0 **¶17201163**
ISCJB IV 15 19 04 52.7–5.4 33.0S–.20 178.2W–.80 32 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 20 14 00.2–1.2 33.16S–.10 177.8W–.20 34 4.3b 29 6-154
ISCJB IV 15 20 13 57.0–1.3 33.16S–.07 177.8W–.20 34 4.2b **¶16577837**
IDC IV 15 20 13 57.4–1.5 33.02S 178.26W 0 4.3,4.1
NEIC IV 15 20 14 01.7–1.2 33.23S 178.08W 35 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.0km s-min=7.8km az=15.0.
IDC Error ellipse: s-maj=44.7km s-min=27.8km az=131.0.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=12.6km az=106.0.
ISC IV 15 20 40 43.1–.69 34.48S–.07 178.09W–.08 35 4.8b 91 4-159
ISCJB IV 15 20 40 40.6–.77 34.39S–.04 178.2W–.10 33 4.6b **¶16462833**
IDC IV 15 20 40 48.3–6.3 34.29S 178.65W 62–51 4.5,4.4
NEIC IV 15 20 40 48.9–1.7 34.60S 178.64W 71–13 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=5.7km az=10.6.
IDC Error ellipse: s-maj=41.1km s-min=27.3km az=56.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=12.1km az=68.0.
ISC IV 15 20 53 31.7–.60 33.46S–.07 178.21W–.09 41 4.5b,4.0s 75 4-162
IDC IV 15 20 53 25.9–.75 33.11S 178.26W 0 4.5,4.4 **¶16462834**
ISCJB IV 15 20 53 30.3–.64 33.35S–.05 178.37W–.10 41 4.5b,4.0s
NEIC IV 15 20 53 32.5–1.6 33.42S 178.31W 48–13 4.6b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=22.1km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=6.5km az=10.9.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=11.7km az=68.0.
ISC IV 15 20 58 52.3–.71 33.08S–.07 178.1W–.10 34 4.5b 62 4-162
ISCJB IV 15 20 58 47.4–.86 33.24S–.05 177.8W–.10 33 4.5b **¶16505397**
NEIC IV 15 20 58 55.5–2.0 33.48S 178.32W 59–16 4.5b
IDC IV 15 20 58 55.7–3.4 32.73S 178.54W 44–28 4.4L,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.5km s-min=4.9km az=16.7.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=13.0km az=53.0.
IDC Error ellipse: s-maj=32.0km s-min=20.2km az=122.0.
ISC IV 15 21 10 21.9–1.1 33.0S–.10 178.3W–.20 34 4.2b 17 6-154
IDC IV 15 21 10 16.7–1.4 33.04S 178.16W 0 4.2,4.0 **¶16505398**
ISCJB IV 15 21 10 19.7–1.2 33.06S–.10 178.2W–.20 34 4.4b,3.8s
NEIC IV 15 21 10 22.0–.69 33.01S 178.22W 35 4.7b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=46.9km s-min=27.8km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=28.6km s-min=10.0km az=20.7.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=12.9km az=113.0.
ISC IV 15 21 13 34.0–.94 33.19S–.08 178.2W–.10 34 4.5b 36 5-154
ISCJB IV 15 21 13 32.8–1.2 33.21S–.06 178.3W–.20 34 4.3b,3.5s **¶16505399**
IDC IV 15 21 13 37.7–6.3 33.19S 178.36W 62–52 4.5,4.3
NEIC IV 15 21 13 38.5–2.3 33.37S 178.43W 71–18 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=8.8km az=2.8.
IDC Error ellipse: s-maj=42.5km s-min=24.7km az=41.0.
NEIC Event type se. Error ellipse: s-maj=24.3km s-min=12.4km az=46.0.
ISC IV 16 00 00 30.5–1.1 33.1S–.10 178.3W–.20 32 4.0b 22 5-148
IDC IV 16 00 00 25.7–3.0 32.99S 178.35W 0 4.3,4.2L **¶16577840**
ISCJB IV 16 00 00 29.1–.94 33.11S–.07 178.4W–.20 32 4.1b,4.2L
NEIC IV 16 00 00 33.0–2.2 33.27S 178.41W 54–20 4.0b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=72.9km s-min=44.6km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=22.5km s-min=7.7km az=17.4.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=17.0km az=90.0.
ISC IV 16 00 05 10.8–.98 33.13S–.09 178.2W–.10 34 4.3b 29 5-160
IDC IV 16 00 05 06.4–1.2 33.02S 178.33W 0 4.6,4.5L **¶16505401**
ISCJB IV 16 00 05 08.6–1.2 33.11S–.06 178.2W–.20 34 4.3b,4.5L
NEIC IV 16 00 05 15.0–3.3 33.22S 178.45W 63–24 4.4b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=41.2km s-min=29.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=8.3km az=10.6.
NEIC Event type se. Error ellipse: s-maj=33.1km s-min=13.2km az=48.0.
ISC IV 16 00 33 36.2–.90 33.2S–.10 177.8W–.10 34 4.3b,3.9s 22 7-154
IDC IV 16 00 33 31.8–1.1 33.06S 178.11W 0 4.5,4.4 **¶16505402**
ISCJB IV 16 00 33 32.8–1.1 33.2S–.10 177.7W–.20 34 4.2b,4.2s
NEIC IV 16 00 33 36.2–.83 33.14S 177.86W 35 4.3b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=47.0km s-min=22.7km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=22.6km s-min=10.2km az=37.3.
NEIC Event type se. Error ellipse: s-maj=29.3km s-min=14.2km az=152.0.
IDC IV 16 03 46 30.1–1.7 32.95S 178.03W 0 4.2,4.1
¶17201190
IDC Error ellipse: s-maj=53.3km s-min=25.1km az=145.0.
ISC IV 16 18 25 05.5–.50 33.06S–.08 178.2W–.10 34 4.7b,3.6s 86 4-160
IDC IV 16 18 25 00.8–.75 32.75S 178.20W 0 4.5,4.4L **¶16505408**
ISCJB IV 16 18 25 03.4–.45 33.29S–.05 178.13W–.09 33 4.5b,3.7s
NEIC IV 16 18 25 07.2–1.4 33.41S 178.11W 55–13 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=19.8km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=5.0km az=28.1.

NEIC Event type se. Error ellipse: s-maj=16.3km s-min=9.9km az=160.0.
ISC IV 16 20 48 57.3–1.1 34.66S–.08 179.9W–.10 76 4.8b 41 3-159
IDC IV 16 20 48 47.7–1.4 34.31S 179.54W 0 4.3,4.1 ¶16505409
NEIC IV 16 20 48 48.6–1.1 34.39S 179.45W 10 4.9b,4.1
ISCJB IV 16 20 48 56.7–1.4 34.76S–.05 179.8W–.20 76 4.5b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 16 21 59 50.6–1.8 33.53S–.10 179.7W–.20 250 3.8b 32 5-152
IDC IV 16 21 59 50.1–5.0 33.61S 179.62W 243–49 4.1,3.7 ¶16505410
ISC Event type ke.
IDC Error ellipse: s-maj=53.1km s-min=37.6km az=9.0.
ISC IV 16 22 28 53.2–1.4 32.9S–.10 178.5W–.30 32 4.3b 13 6-153
IDC IV 16 22 28 48.0–1.6 32.82S 178.36W 0 4.4,4.3b ¶16505411
NEIC IV 16 22 28 53.2–.76 32.85S 178.40W 35 4.5b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=61.9km s-min=34.1km az=147.0.
NEIC Event type se. Error ellipse: s-maj=22.2km s-min=12.2km az=119.0.
IDC IV 17 09 55 52.4–2.3 32.98S 178.10W 0 4.1,3.9b
¶17201302
IDC Error ellipse: s-maj=62.7km s-min=34.0km az=127.0.
IDC IV 17 10 01 31.4–3.3 32.94S 178.58W 0 3.7,3.5
¶17201303
IDC Error ellipse: s-maj=73.2km s-min=37.0km az=113.0.
IDC IV 17 10 43 59.0–3.0 32.90S 178.22W 0 3.9,3.8
¶17201308
IDC Error ellipse: s-maj=69.6km s-min=35.8km az=120.0.
IDC IV 17 11 23 24.4–2.2 32.98S 178.37W 0 4.0,3.8
¶17201312
IDC Error ellipse: s-maj=60.9km s-min=32.3km az=128.0.
IDC IV 17 20 00 36.5–3.1 32.86S 178.32W 0 3.9,3.7
¶17201351
IDC Error ellipse: s-maj=74.3km s-min=46.4km az=122.0.
IDC IV 17 22 25 38.1–3.0 32.87S 178.49W 0 3.8,3.6
¶17201366
IDC Error ellipse: s-maj=71.1km s-min=36.2km az=116.0.
ISC IV 18 07 59 23.9–1.1 33.2S–.10 178.6W–.20 32 4.4b 16 6-151
IDC IV 18 07 59 18.2–2.1 33.13S 178.41W 0 4.4,4.3L ¶16631136
ISCJB IV 18 07 59 22.8–1.1 33.27S–.09 178.7W–.20 32 4.2b,4.3L
NEIC IV 18 07 59 24.3–.78 33.18S 178.54W 35 4.5b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=52.2km s-min=32.0km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=23.5km s-min=9.5km az=21.3.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=16.3km az=122.0.
ISC IV 18 13 03 04.4–.29 34.29S–.03 179.94E–.03 98–2 6.2b 2501 4-179
MOS IV 18 13 02 57.6–1.1 34.29S 179.91E 46 6.4b,5.9s ¶16445598
ISCJB IV 18 13 03 00.8–.43 34.30S–.03 179.96E–.02 75–4 6.0b,5.9s
BJI IV 18 13 03 01.0 34.30S 180.00E 80 6.2,6.1s
NEIC IV 18 13 03 02.7–.10 34.34S 179.87E 86 6.6W,6.6W
GCMT IV 18 13 03 02.7–.10 34.40S 179.83W 100–0 6.5W,6.6W
IDC IV 18 13 03 03.4–.83 34.28S 179.97E 90–6 6.0,5.7
NEIC IV 18 13 03 04.0–.00 34.12S 179.81W 90 6.0,5.7
ISC Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=6.4km az=79.2.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=169.1.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=155.0. Felt [II] at Christchurch, Lower Hutt and Wellington, New Zealand. Felt in many parts of the North Island and in a few places on the South Island. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$9.60000×10^{18} Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.80 $M_{\theta\phi}$2.73 $M_{\phi\phi}$3.06 $M_{r\theta}$2.45 $M_{\theta\theta}$-0.69 $M_{\phi r}$7.65 Best double couple: NP1:ϕ_s353.00000°,δ15.00000°,λ-110.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-85.00000°. Principal axes: T 7.6000,Plg31.0000° ,Azm279.0000°; N 3.1000,Plg5.0000°,Azm12.0000°; P -10.6000,Plg5.0000°,Azm11.0000° $M_0$9.50000×10^{18}
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c368; s139,c568;Duration: 4$\frac{s}{5}$ Moment tensor: Scale 10^{18} Nm; M_{rr}-3.04±.04 $M_{\theta\theta}$-1.31±.04; $M_{\phi\phi}$4.35±.04; $M_{r\theta}$2.05±.03; $M_{\theta\phi}$0.98±.03; $M_{\phi r}$6.56±.03; Best double couple: NP1:ϕ_s197.00000°,δ76.00000°,λ-84.00000°. NP2:ϕ_s355.00000° ,δ15.00000°,λ-111.00000°. Principal axes: T 8.5480,Plg31.0000°,Azm283.0000° ; N -1.3860,Plg6.0000°,Azm16.0000°; P -7.1620,Plg59.0000°,Azm115.0000° $M_0$7.85500×10^{18}
IDC Error ellipse: s-maj=10.7km s-min=9.8km az=16.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.50 $M_{\theta\theta}$0.88 $M_{\phi\phi}$3.61 $M_{r\theta}$1.99 $M_{\theta\phi}$1.03 $M_{\phi r}$7.57 Best double couple: NP1:ϕ_s195.00000° ,δ76.00000°,λ-91.00000°. NP2:ϕ_s21.00000°,δ14.00000°,λ-84.00000°. Principal axes: T 8.6200,Plg30.0000°,Azm286.0000°; N 0.5500,Plg1.0000°,Azm195.0000° ; P -9.1700,Plg59.0000°,Azm103.0000° $M_0$8.90000×10^{18}
IDC IV 18 17 25 39.6–2.9 32.96S 178.32W 0 3.9,3.7
¶17201431
IDC Error ellipse: s-maj=68.9km s-min=35.7km az=119.0.
ISC IV 18 20 44 52.5–1.7 32.87S–.09 179.2E–.20 35 34 5-151
IDC IV 18 20 44 39.5–2.1 32.39S 179.47W 0 4.2L,3.9 ¶16505429
ISC Event type ke.
IDC Error ellipse: s-maj=58.0km s-min=39.4km az=129.0.
ISC IV 19 05 21 43.5–2.5 34.8S–.20 178.9W–.30 42 23 4-149
IDC IV 19 05 21 41.9–3.2 34.66S 179.47W 0 4.1,3.9 ¶17201473
ISCJB IV 19 05 21 43.6–1.6 34.8S–.10 179.2W–.30 42 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC IV 20 03 20 19.5–8.6 32.26S 179.98E 0 3.8,3.6
¶17201582
IDC Error ellipse: s-maj=385.3km s-min=59.6km az=160.0.
ISC IV 20 15 24 14.6–2.0 33.49S–.10 178.7W–.20 45 28 5-148
IDC IV 20 15 24 10.3–3.0 33.12S 179.03W 0 3.7,3.5 ¶17201626
ISCJB IV 20 15 24 13.8–1.3 33.51S–.07 178.9W–.20 45 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 21 04 46 28.7–3.0 34.83S 178.39E 0 3.8,3.6
¶17201671
IDC Error ellipse: s-maj=65.6km s-min=42.6km az=84.0.
ISC IV 21 18 36 37.6–2.0 33.39S–.10 178.8W–.20 45 28 5-148
IDC IV 21 18 36 32.2–2.8 33.12S 178.95W 0 4.2,3.9 ¶16505470
ISCJB IV 21 18 36 36.3–1.4 33.42S–.07 178.9W–.20 45 3.7b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 03 45 14.0–2.5 34.4S–.20 178.9W–.40 35 13 4-149
ISCJB IV 22 03 45 12.6–2.1 34.4S–.10 179.0W–.30 33 3.5b ¶17201785
IDC IV 22 03 45 15.2–5.6 32.61S 179.71W 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.9km s-min=11.7km az=16.9.
IDC Error ellipse: s-maj=234.3km s-min=57.2km az=160.0.
ISC IV 24 18 14 36.8–2.0 34.1S–.20 178.6W–.30 35 23 4-154
IDC IV 24 18 14 33.0–2.2 34.00S 178.90W 0 4.1,4.1L ¶17201978
ISCJB IV 24 18 14 33.9–1.6 34.1S–.10 178.6W–.30 35 3.6b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 27 20 43 20.0–1.4 32.91S–.09 180.0E–.20 100 4.1b 32 5-160
IDC IV 27 20 43 20.1–1.3 33.06S 179.79W 138–8 4.1,3.8 ¶16505555
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=17.2km az=109.0.
IDC IV 30 10 47 04.5–3.0 33.35S 178.01W 0 3.8,3.6
¶17202451
IDC Error ellipse: s-maj=75.7km s-min=44.8km az=130.0.
ISC V 03 22 01 16.2–1.8 32.9S–.10 178.8W–.30 45 4.0b 19 5-151
IDC V 03 22 01 09.6–1.9 32.84S 178.68W 0 4.2,4.0 ¶16577975
ISCJB V 03 22 01 14.5–2.1 32.96S–.07 178.8W–.30 45 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC V 04 19 35 00.1–.76 32.81S–.08 180.0W–.10 35 4.4b,3.3s 28 5-160
IDC V 04 19 34 54.8–.99 32.82S 179.86W 0 4.4,4.2 ¶16708839
ISCJB V 04 19 34 58.3–.71 32.87S–.06 180.0E–.10 33 4.3b,3.3s
NEIC V 04 19 34 59.4–3.7 32.81S 179.98W 31–25 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=27.0km s-min=23.4km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=8.2km az=7.4.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=11.7km az=97.0.
ISC V 04 20 29 24.8–2.1 32.1S–.10 180.0W–.30 100 33 6-146
IDC V 04 20 29 21.9–9.2 32.07S 179.21W 100–87 3.9,3.8L ¶17202791
ISC Event type ke.
IDC Error ellipse: s-maj=73.8km s-min=51.6km az=173.0.
ISC V 09 14 42 48.8–1.6 34.0S–.10 179.5W–.30 53 20 4-159
IDC V 09 14 42 39.9–1.8 33.66S 179.18W 0 3.8,3.7L ¶17203132
ISCJB V 09 14 42 46.8–1.9 34.01S–.09 179.4W–.30 53 3.4b,3.7L
ISC Event type ke.
ISCJB Event type ke.
IDC V 09 20 15 12.0–3.1 33.05S 178.32W 0 4.3,4.1
¶17203144
IDC Error ellipse: s-maj=71.1km s-min=36.3km az=117.0.
ISC V 09 20 18 42.9–1.8 33.0S–.10 178.7W–.30 32 16 6-151
IDC V 09 20 18 36.8–2.1 32.96S 178.49W 0 4.7,4.5 ¶16560944
ISCJB V 09 20 18 39.8–2.6 33.1S–.10 178.5W–.40 32 4.4b,4.5
ISC Event type ke.
ISCJB Event type ke.
IDC V 09 20 23 57.3–3.1 33.10S 178.23W 0 4.7,4.7s
¶17203145
IDC Error ellipse: s-maj=71.8km s-min=36.3km az=118.0.
ISC V 10 05 42 41.7–1.9 34.5S–.10 178.9E–.10 200 4.0b 111 3-159
IDC V 10 05 42 34.8–7.9 33.87S 179.43E 163–55 4.6,4.2 ¶17203180
ISC Event type ke.
IDC Error ellipse: s-maj=77.3km s-min=29.0km az=51.0.
ISC V 12 14 37 58.7–1.7 32.6S–.10 179.3E–.20 363 3.5b 54 5-77
IDC V 12 14 37 51.4–7.8 32.23S 179.86E 316–94 4.3,3.7 ¶17203483
ISC Event type ke.
IDC Error ellipse: s-maj=158.5km s-min=76.6km az=107.0.
ISC V 17 19 03 09.9–2.7 32.9S–.10 179.9E–.30 372 3.4b 39 5-43
IDC V 17 19 03 05.2–7.8 32.29S 179.63E 291–218 4.1,3.6 ¶17203834
ISC Event type ke.
IDC Error ellipse: s-maj=350.5km s-min=81.4km az=118.0.
ISC V 20 19 07 55.0–1.8 33.3S–.10 179.3W–.30 48 14 5-160
IDC V 20 19 07 48.5–2.0 33.30S 179.19W 0 3.8,3.6 ¶17204071
ISCJB V 20 19 07 52.8–2.3 33.40S–.09 179.2W–.40 48 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 23 08 16.8–2.2 33.4S–.10 179.6E–.30 150 37 4-147
IDC V 20 23 08 16.5–8.5 33.62S 179.61W 126–82 3.7,3.5 ¶17204095
ISC Event type ke.
IDC Error ellipse: s-maj=77.8km s-min=51.6km az=174.0.
ISC V 26 05 05 57.4–1.9 32.2S–.10 179.1W–.30 96 12 7-161
IDC V 26 05 05 42.9–1.9 31.67S 178.41W 0 4.5,4.2 ¶17204483
ISC Event type ke.
IDC Error ellipse: s-maj=69.9km s-min=45.1km az=15.0.
ISC V 28 19 05 54.8–1.1 33.4S–.10 178.6W–.20 41 4.5b 33 5-153
IDC V 28 19 05 49.3–1.9 33.31S 178.45W 0 4.2,4.1 ¶16711155
NEIC V 28 19 05 54.3–.89 33.40S 178.50W 35 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=57.2km s-min=30.9km az=135.0.
NEIC Event type se. Error ellipse: s-maj=22.1km s-min=7.3km az=103.0.
WEL VI 02 07 26 12.0–.90 34.95S 178.28E 225–20 3.7L
¶601026870
WEL Event type ke. Error ellipse: s-maj=20.4km s-min=15.0km az=90.0.
ISC VI 02 16 29 54.7–.70 32.82S–.05 180.0W–.10 250 4.7b 155 4-151
NEIC VI 02 16 29 53.8–.89 32.82S 179.66W 251–10 4.6b ¶16856154
ISCJB VI 02 16 29 57.1–.57 32.78S–.03 179.51E–.10 250 4.6b
IDC VI 02 16 30 00.1–6.9 33.17S 179.96E 286–76 4.6,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=8.9km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=4.1km az=176.0.
IDC Error ellipse: s-maj=87.4km s-min=25.5km az=180.0.
ISC VI 03 05 06 36.5–.68 32.34S–.06 179.42E–.10 300 3.5b 95 4-150
IDC VI 03 05 06 36.3–.92 32.33S 179.74E 298–10 4.4,3.9 ¶16722598
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=11.6km az=116.0.
IDC VI 04 01 23 03.1–2.9 33.68S 179.24W 0 3.9L,3.8
¶17205143
IDC Error ellipse: s-maj=69.7km s-min=44.9km az=123.0.
ISC VI 04 23 13 12.5–1.3 32.07S–.09 179.8E–.20 400 38 6-151
ISCJB VI 04 23 13 10.5–1.3 31.95S–.07 179.9E–.30 400 2.8b ¶16722606
IDC VI 04 23 13 11.8–8.1 32.06S 179.94W 398–92 3.6,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.7km s-min=9.3km az=2.2.
IDC Error ellipse: s-maj=106.8km s-min=34.3km az=8.0.
ISC VI 07 02 34 45.7–1.3 32.2S–.10 177.8W–.20 18 4.2b 15 7-161
IDC VI 07 02 34 42.4–1.4 32.14S 177.70W 0 4.3,4.2 ¶16684508
ISCJB VI 07 02 34 44.4–1.6 32.24S–.08 177.8W–.20 18 4.3b,4.2
NEIC VI 07 02 34 48.0–1.0 32.23S 177.77W 35 4.1b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=36.1km s-min=29.8km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=28.0km s-min=11.5km az=4.1.
NEIC Event type se. Error ellipse: s-maj=22.2km s-min=14.4km az=87.0.
IDC VI 08 05 09 02.2–9.5 32.09S 179.79W 342–108 3.7,3.2
¶17205530
IDC Error ellipse: s-maj=119.6km s-min=50.0km az=1.0.
IDC VI 10 21 35 53.7–3.1 33.57S 176.15W 0 5.3L,3.7
¶17205733
IDC Error ellipse: s-maj=69.9km s-min=46.4km az=127.0.
IDC VI 15 01 58 56.3–5.8 32.63S 179.00W 0 3.9,3.6
¶17206148
IDC Error ellipse: s-maj=251.1km s-min=56.9km az=160.0.
ISC VI 18 11 33 37.2–.64 32.38S–.06 179.0E–.10 350 4.1b 146 4-161
NEIC VI 18 11 33 36.1–.81 32.44S 179.97W 351–8 4.4b ¶602918672
IDC VI 18 11 33 36.7–1.5 32.39S 179.99W 352–14 4.7,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=10.3km az=103.0.
IDC Error ellipse: s-maj=23.3km s-min=17.1km az=138.0.
ISC VI 18 18 33 15.7–2.2 32.0S–.20 177.6W–.30 18 4.0b 8 8-154
IDC VI 18 18 33 13.9–2.1 31.97S 177.74W 0 4.1,4.0 ¶17206480
ISC Event type ke.
IDC Error ellipse: s-maj=53.4km s-min=33.2km az=126.0.
IDC VI 18 18 49 39.7–2.9 32.00S 177.77W 0 4.1,3.9
¶17206481
IDC Error ellipse: s-maj=70.3km s-min=35.6km az=119.0.
ISC VI 21 15 32 01.0–1.5 33.2S–.10 178.2W–.20 34 4.5b 41 6-154
IDC VI 21 15 31 55.9–1.6 33.17S 178.28W 0 4.6,4.4 ¶16731145
ISCJB VI 21 15 32 00.1–1.8 33.16S–.07 178.5W–.30 34 4.4b,4.4
NEIC VI 21 15 32 01.2–.94 33.27S 178.32W 35 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=50.4km s-min=30.2km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=34.3km s-min=7.2km az=13.1.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=16.6km az=125.0.
IDC VI 21 16 06 18.6–3.0 32.98S 177.79W 0 3.6,3.5L
¶17206685
IDC Error ellipse: s-maj=77.5km s-min=44.9km az=129.0.
IDC VI 21 17 27 21.1–2.9 32.91S 178.72W 0 3.6,3.5
¶17206688
IDC Error ellipse: s-maj=70.6km s-min=45.2km az=122.0.
ISC VI 27 01 56 48.3–1.8 34.0S–.10 178.6W–.30 37 3.8b 18 4-159
IDC VI 27 01 56 43.5–1.8 33.84S 178.76W 0 4.5L,4.2 ¶17207037
ISCJB VI 27 01 56 45.2–1.9 34.1S–.10 178.5W–.30 37 3.8b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 01 57 54.5–1.0 34.26S–.09 178.8W–.10 50 4.3b 37 4-159
IDC VI 27 01 57 47.9–1.1 34.13S 178.84W 0 4.5,4.4 ¶16721011

ISCJB VI 27 01 57 52.0–1.6 34.17S–.07 178.7W–.20 50 4.3b,4.4
NEIC VI 27 01 57 52.7–.73 34.33S 178.72W 35 4.3b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=25.2km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=27.4km s-min=8.0km az=11.1.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=12.5km az=125.0.
ISC VI 27 04 52 24.8–1.8 32.4S–.10 179.4E–.20 300 66 5-146
ISCJB VI 27 04 52 21.8–.96 32.25S–.06 179.6E–.20 300 3.5b ¶17207045
IDC VI 27 04 52 24.1–4.3 32.55S 179.98W 325–45 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=7.7km az=4.1.
IDC Error ellipse: s-maj=48.6km s-min=37.4km az=171.0.
IDC VI 27 05 35 40.4–2.2 33.36S 179.12W 0 4.0,3.8
¶16721014

IDC Error ellipse: s-maj=62.8km s-min=40.4km az=134.0.
ISC VI 27 13 39 14.3–.29 33.07S–.04 178.85W–.05 45 5.2b,4.2s 361 4-172
BJI VI 27 13 39 07.8 33.64S 179.42W 11 5.6b,5.3b ¶16721016
GCMT VI 27 13 39 10.3–.30 33.12S 178.62W 45–1 5.0W,5.3b
NEIC VI 27 13 39 10.3–.49 33.09S 178.90W 18–2 5.2b,5.3b
ISCJB VI 27 13 39 12.5–.19 33.15S–.02 179.09W–.04 33 5.1b,4.1s
MOS VI 27 13 39 12.4–1.0 32.90S 179.04W 33 5.5b,4.1s
IDC VI 27 13 39 14.8–2.2 32.95S 178.85W 47–19 4.8,4.6
ISC Event type se.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c48; s62,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.05±.20 $M_{\theta\theta}$0.28±.14; $M_{\phi\phi}$2.77±.12; $M_{r\theta}$-0.00±.11; $M_{\theta\phi}$0.71±.09; $M_{\phi r}$-1.85±.10; Best double couple: NP1:ϕ_s7.00000°,δ61.00000° ,λ-97.00000°. NP2:ϕ_s202.00000°,δ30.00000°,λ-78.00000°. Principal axes: T 3.4540,Plg16.0000°,Azm103.0000°; N 0.1410,Plg6.0000°,Azm11.0000° ; P -3.5980,Plg73.0000°,Azm260.0000° $M_0$3.52600×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=2.7km az=25.6.
MOS Error ellipse: s-maj=12.5km s-min=8.9km az=98.5.
IDC Error ellipse: s-maj=15.7km s-min=13.0km az=135.0.
ISC VI 28 17 37 02.1–1.4 34.07S–.08 178.4W–.20 37 4.6b 52 4-148
IDC VI 28 17 36 59.6–2.8 33.93S 178.73W 0 4.4,4.3 ¶16731718
ISCJB VI 28 17 37 03.3–.94 33.99S–.05 178.9W–.20 33 4.7b,4.3
NEIC VI 28 17 37 13.4–1.6 34.83S 178.99W 113–14 4.9b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=61.1km s-min=31.6km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=5.7km az=14.6.
NEIC Event type se. Error ellipse: s-maj=21.4km s-min=14.0km az=123.0.
ISC VI 30 20 23 43.8–.98 34.07S–.09 180.0E–.20 35 4.3b 53 4-159
NEIC VI 30 20 23 47.3–4.2 34.19S 179.96W 70–35 4.3b ¶16721039
IDC VI 30 20 23 48.3–6.2 34.28S 179.92E 73–51 4.4,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=41.1km s-min=23.8km az=205.0.
IDC Error ellipse: s-maj=41.7km s-min=31.0km az=41.0.

SEISMIC REGION 13.
Fiji Area.

(181) Fiji Islands region.

IDC I 01 04 19 23.2–57 19.40S 176.95W 0 3.9,3.7
¶17189105

IDC Error ellipse: s-maj=1054.0km s-min=172.5km az=82.0.
IDC I 01 05 01 51.8–66 20.07S 179.79W 0 4.1,3.9
¶17189106

IDC Error ellipse: s-maj=1194.0km s-min=167.0km az=81.0.
ISC I 01 09 03 56.5–.82 20.8S–.20 178.5W–.20 587 3.6b 15 18-150
IDC I 01 09 03 52.9–5.1 20.70S 178.44W 543–58 4.1,3.5 ¶17189119
ISCJB I 01 09 03 55.4–.74 20.8S–.10 178.6W–.20 587 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 01 14 26 35.3–.89 20.5S–.20 177.9W–.20 534 3.5b 9 9-143
ISCJB I 01 14 26 34.7–.73 20.5S–.20 178.0W–.20 534 3.4b ¶17189139
IDC I 01 14 26 34.1–2.3 20.53S 177.91W 515–29 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.2km s-min=14.1km az=139.5.
IDC Error ellipse: s-maj=36.0km s-min=14.3km az=148.0.
ISC I 01 15 40 56.2–.61 18.1S–.10 178.1W–.10 450 3.8b 23 7-148
ISCJB I 01 15 40 55.1–.54 18.1S–.10 178.1W–.10 450 3.9b ¶17189142
IDC I 01 15 40 55.2–2.0 18.07S 178.04W 433–23 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=12.7km az=138.4.
IDC Error ellipse: s-maj=18.2km s-min=13.4km az=132.0.
IDC I 01 23 06 56.7–58 19.12S 177.24W 0 4.3,4.1
¶17189165

IDC Error ellipse: s-maj=1079.0km s-min=157.4km az=81.0.
IDC I 02 00 51 35.9–48 18.26S 177.84W 0 3.9,3.8b
¶17189174

IDC Error ellipse: s-maj=892.9km s-min=157.2km az=80.0.
ISC I 02 01 07 32.3–1.1 20.5S–.20 178.4W–.20 587 3.7b 9 18-147
ISCJB I 02 01 07 31.8–1.1 20.5S–.20 178.5W–.20 587 3.7b ¶17189175
IDC I 02 01 07 36.2–6.2 20.69S 178.52W 634–83 4.1,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.4km s-min=20.1km az=138.5.
IDC Error ellipse: s-maj=52.2km s-min=27.6km az=9.0.
IDC I 02 10 35 24.6–5.2 20.64S 177.96W 490–31 3.9,3.2
¶17189211

IDC Error ellipse: s-maj=189.2km s-min=20.5km az=148.0.
IDC I 04 07 49 05.5–2.5 15.95S 178.15W 0 4.1,3.8
¶17189402

IDC Error ellipse: s-maj=274.8km s-min=33.0km az=159.0.
IDC I 04 10 21 11.8–2.3 16.44S 177.22W 0 3.8,3.5
¶17189413

IDC Error ellipse: s-maj=131.1km s-min=29.2km az=149.0.
IDC I 04 18 44 54.5–11 20.76S 178.26W 534–104 4.0,3.2
¶17189446

IDC Error ellipse: s-maj=114.6km s-min=43.9km az=133.0.
ISC I 04 20 13 55.1–.80 17.5S–.20 178.7W–.10 547 4.3b 23 8-150
ISCJB I 04 20 13 54.2–.79 17.4S–.20 178.7W–.10 547 4.2b ¶17189452
IDC I 04 20 13 55.0–1.9 17.49S 178.67W 542–21 4.6,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.9km s-min=13.6km az=156.6.
IDC Error ellipse: s-maj=26.0km s-min=14.0km az=151.0.
IDC I 06 01 21 20.5–2.3 15.85S 176.39W 333–55 3.9,3.4
¶17189558

IDC Error ellipse: s-maj=147.7km s-min=25.1km az=141.0.
ISC I 07 05 02 00.6–1.5 17.0S–.60 178.4W–.40 453 3.5b 7 7-87
IDC I 07 05 02 09.4–2.0 17.21S 178.56W 559–29 4.0,3.5 ¶17189622
ISC Event type ke.
IDC Error ellipse: s-maj=85.2km s-min=14.1km az=151.0.
ISC I 07 05 06 29.6–1.1 17.1S–.30 177.6W–.30 403 3.9b 18 6-176
IDC I 07 05 06 23.9–2.3 17.03S 177.46W 343–24 4.3,3.9 ¶17189623
ISCJB I 07 05 06 28.8–1.1 16.9S–.30 177.7W–.30 403 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 07 16 31 10.8–4.0 16.47S 178.27W 0 4.1,3.8
¶17189648

IDC Error ellipse: s-maj=177.9km s-min=34.4km az=137.0.
ISC I 07 16 59 58.2–.57 18.1S–.10 178.42W–.09 579 4.3b 52 8-148
ISCJB I 07 16 59 57.5–.41 18.0S–.10 178.52W–.08 579 4.3b ¶16021263
NEIC I 07 16 59 57.8–1.0 17.99S 178.46W 572–12 4.3b
IDC I 07 17 00 01.6–2.2 18.10S 178.53W 615–29 4.8,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=7.4km az=154.8.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=7.9km az=155.0.
IDC Error ellipse: s-maj=21.1km s-min=12.2km az=161.0.
ISC I 07 21 30 57.8–.76 16.1S–.20 177.8W–.20 432 3.7b 11 6-144
ISCJB I 07 21 30 56.5–.67 16.1S–.20 177.8W–.10 432 3.7b ¶17189660

IDC I 07 21 30 56.5–2.2 16.03S 177.86W 413–27 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.5km s-min=13.2km az=147.9.
IDC Error ellipse: s-maj=33.2km s-min=13.0km az=147.0.
IDC I 07 23 50 44.6–2.5 17.59S 177.61W 0 3.9,3.6
¶17189664

IDC Error ellipse: s-maj=198.6km s-min=32.3km az=156.0.
IDC I 08 20 58 34.8–2.9 18.18S 177.54W 0 4.4,4.3
¶17189722

IDC Error ellipse: s-maj=177.0km s-min=32.3km az=150.0.
ISC I 08 22 24 16.1–.93 17.0S–.20 176.3W–.10 35 4.4b 12 5-146
IDC I 08 22 24 12.2–8.3 16.80S 176.43W 0 4.1,3.8 ¶16022587
NEIC I 08 22 24 13.3–.59 16.81S 176.39W 10 4.3b,3.8
ISCJB I 08 22 24 15.1–.73 16.8S–.20 176.33W–.09 33 4.2b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 04 38 41.9–1.4 20.8S–.30 178.9W–.20 619 3.6b 15 33-150
ISCJB I 09 04 38 41.2–1.4 20.7S–.30 179.0W–.30 619 3.6b ¶17189737
IDC I 09 04 38 41.6–5.2 20.75S 178.88W 611–57 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.9km s-min=16.1km az=148.0.
IDC Error ellipse: s-maj=46.8km s-min=24.5km az=134.0.
IDC I 09 06 24 51.3–46 18.50S 177.85W 579–387 4.3,3.4
¶17189741

IDC Error ellipse: s-maj=387.3km s-min=107.6km az=72.0.
ISC I 11 17 53 43.8–.62 21.3S–.10 176.5W–.10 183 4.2b 28 16-172
ISCJB I 11 17 53 42.8–.68 21.4S–.10 176.6W–.10 183 4.1b ¶16022601
IDC I 11 17 53 45.7–6.6 21.33S 176.59W 199–58 4.3,3.9
NEIC I 11 17 53 50.2–4.0 21.41S 176.63W 242–36 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=15.1km az=137.8.
IDC Error ellipse: s-maj=24.9km s-min=17.5km az=45.0.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=14.3km az=47.0.
IDC I 11 19 53 40.3–7.5 17.52S 178.77W 578–78 4.1,3.4
¶17189942

IDC Error ellipse: s-maj=94.4km s-min=30.5km az=141.0.
IDC I 12 00 56 11.4–6.7 15.94S 177.10W 0 4.0,3.7
¶17189959

IDC Error ellipse: s-maj=295.3km s-min=34.5km az=141.0.
IDC I 12 03 32 26.7–3.9 18.84S 177.86W 640–44 4.3,3.5
¶17189965

IDC Error ellipse: s-maj=89.5km s-min=21.5km az=162.0.
IDC I 12 14 30 44.0–13 21.24S 177.25W 349–119 4.0,3.5
¶17189998

IDC Error ellipse: s-maj=118.2km s-min=44.6km az=136.0.
IDC I 12 14 32 07.3–70 21.08S 178.57W 0 4.0,3.9
¶17189999

IDC Error ellipse: s-maj=1273.0km s-min=159.6km az=84.0.
ISC I 12 14 41 11.1–.40 20.94S–.07 178.47W–.07 579 4.5b 242 9-172
MOS I 12 14 41 03.4–1.7 19.84S 178.87W 443 4.5b ¶15922059
ISCJB I 12 14 41 11.0–.21 20.87S–.04 178.67W–.06 579 4.5b
NEIC I 12 14 41 12.2–.97 20.82S 178.68W 583–12 4.8b
IDC I 12 14 41 14.8–1.9 20.96S 178.68W 615–23 4.7,3.9
ISC Event type se.
MOS Error ellipse: s-maj=16.3km s-min=13.1km az=132.2.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=25.7.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.0km az=146.0.
IDC Error ellipse: s-maj=14.2km s-min=12.2km az=142.0.
IDC I 14 08 20 50.5–60 18.04S 174.35E 0 4.2,4.0
¶17190145

IDC Error ellipse: s-maj=1046.0km s-min=132.8km az=75.0.
ISC I 14 13 46 21.8–1.1 17.7S–.40 178.5W–.20 547 3.8b 16 7-145
IDC I 14 13 46 20.4–2.1 17.52S 178.60W 521–24 4.3,3.6 ¶17190168
ISCJB I 14 13 46 21.3–1.0 17.6S–.40 178.6W–.20 547 3.8b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 01 56 06.8–1.4 17.0S–.50 179.0W–.30 533 3.2b 8 39-147
IDC I 15 01 56 02.7–8.8 17.21S 178.76W 486–105 3.7,3.2 ¶17190223
ISCJB I 15 01 56 05.9–1.3 17.2S–.60 178.9W–.40 533 3.2b,3.2
ISC Event type ke.
ISCJB Event type ke.
IDC I 16 08 19 24.8–8.0 17.06S 179.02W 567–95 3.7,3.2
¶17190307

IDC Error ellipse: s-maj=85.8km s-min=36.3km az=154.0.
IDC I 16 12 30 28.9–7.3 19.79S 177.54W 568–84 3.8,3.2
¶17190322

IDC Error ellipse: s-maj=88.2km s-min=34.1km az=156.0.
IDC I 16 14 02 52.0–6.6 18.27S 178.24W 0 4.2,3.9
¶17190333

IDC Error ellipse: s-maj=285.8km s-min=36.6km az=143.0.
IDC I 16 19 15 47.8–2.7 17.60S 177.61W 309–32 3.9,3.4
¶17190347

IDC Error ellipse: s-maj=113.9km s-min=20.9km az=154.0.
IDC I 17 05 28 55.9–1.7 16.67S 178.02W 0 4.2,3.9b
¶17190379

IDC Error ellipse: s-maj=101.2km s-min=24.1km az=148.0.
IDC I 17 07 12 17.4–66 17.90S 175.27E 0 4.4,4.2
¶17190386

IDC Error ellipse: s-maj=1157.0km s-min=144.6km az=76.0.
ISC I 17 16 43 14.3–1.5 17.6S–.50 178.4W–.30 547 3.6b 10 7-147
IDC I 17 16 43 09.9–2.1 17.36S 178.36W 490–28 4.1,3.6 ¶17190417
ISCJB I 17 16 43 13.6–1.3 17.5S–.60 178.5W–.40 547 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 17 00 58.2–1.4 17.7S–.40 178.3W–.30 547 3.6b 11 39-147
IDC I 17 17 01 06.1–5.8 17.74S 178.56W 634–65 4.0,3.2 ¶17190418
ISC Event type ke.
IDC Error ellipse: s-maj=63.0km s-min=28.6km az=136.0.
ISC I 17 23 27 40.0–1.0 16.8S–.40 179.0W–.20 533 3.5b 11 8-146
ISCJB I 17 23 27 39.1–.98 16.8S–.40 179.0W–.20 533 3.6b ¶17190435
IDC I 17 23 27 39.0–2.3 16.94S 178.99W 512–31 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=64.5km s-min=14.4km az=153.7.
IDC Error ellipse: s-maj=80.1km s-min=14.9km az=152.0.
ISC I 17 23 33 33.6–1.4 20.4S–.50 178.7W–.30 587 3.6b 22 37-151
ISCJB I 17 23 33 33.4–1.3 20.3S–.50 178.8W–.30 587 3.6b ¶17190436
IDC I 17 23 33 36.3–3.2 20.60S 178.62W 621–40 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=74.6km s-min=14.2km az=154.2.
IDC Error ellipse: s-maj=80.5km s-min=14.7km az=157.0.
ISC I 18 04 03 08.9–1.3 17.6S–.40 178.7W–.20 547 3.8b 11 33-147
ISCJB I 18 04 03 08.2–1.2 17.5S–.40 178.8W–.20 547 3.9b ¶17190450
IDC I 18 04 03 08.6–7.5 17.61S 178.67W 543–90 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=60.5km s-min=14.4km az=152.7.
IDC Error ellipse: s-maj=52.1km s-min=28.6km az=161.0.
ISC I 18 15 49 11.2–1.5 21.4S–.40 179.1W–.20 602 4.2b 14 32-151
IDC I 18 15 49 09.1–6.1 21.41S 178.98W 581–61 4.3,3.5 ¶17190487
ISCJB I 18 15 49 10.2–1.6 21.4S–.40 179.1W–.30 602 3.9b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC I 18 17 35 13.5–56 16.65S 177.21W 0 4.2,4.0
¶17190496

IDC Error ellipse: s-maj=1047.0km s-min=161.2km az=78.0.
IDC I 20 16 08 04.1–11 16.93S 176.16W 550–134 4.1,3.3
¶17190633

IDC Error ellipse: s-maj=59.5km s-min=37.4km az=7.0.
ISC I 20 16 31 49.2–.59 21.4S–.10 176.1W–.10 154 4.5b 43 8-172
NEIC I 20 16 31 44.6–5.2 21.45S 176.22W 106–44 4.7b ¶16151955
IDC I 20 16 31 46.2–8.8 21.50S 176.28W 116–73 4.5,4.3

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=14.9km az=221.0.
IDC Error ellipse: s-maj=34.3km s-min=22.2km az=55.0.
ISC I 21 00 22 38.0–1.4 17.3S–.50 178.8W–.40 539 3.6b 10 39-144
ISCJB I 21 00 22 37.6–1.3 17.2S–.50 178.9W–.40 539 3.8b **¶17190649**
IDC I 21 00 22 42.5–5.8 17.39S 178.87W 592–70 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=83.9km s-min=16.2km az=148.8.
IDC Error ellipse: s-maj=73.9km s-min=22.7km az=149.0.
IDC I 21 03 29 48.6–2.2 16.86S 177.26W 0 4.0,3.8
¶17190654
IDC Error ellipse: s-maj=138.3km s-min=25.7km az=152.0.
IDC I 21 05 24 19.6–21 19.06S 178.17W 378–235 3.5,3.1
¶17190661
IDC Error ellipse: s-maj=288.4km s-min=60.6km az=162.0.
IDC I 21 16 21 20.2–1.8 14.24S 178.44W 0 4.2,3.9
¶17190681
IDC Error ellipse: s-maj=129.2km s-min=22.8km az=151.0.
IDC I 21 16 22 18.6–52 18.51S 176.36W 0 4.2,4.0
¶17190682
IDC Error ellipse: s-maj=960.8km s-min=165.7km az=81.0.
IDC I 21 17 07 11.5–2.1 19.44S 176.15W 0 4.1,3.9
¶17190685
IDC Error ellipse: s-maj=159.8km s-min=29.6km az=154.0.
ISC I 21 17 11 36.7–.81 19.1S–.20 176.5W–.20 21 4.4s,3.9b 11 10-174
IDC I 21 17 11 33.4–1.0 19.01S 176.54W 0 4.4,4.4s **¶15968940**
ISCJB I 21 17 11 35.0–.76 19.2S–.10 176.5W–.20 21 4.4s,3.9b
NEIC I 21 17 11 34.9–.60 19.05S 176.54W 10 4.4s,3.9b
GCMT I 21 17 11 36.0–.30 19.09S 176.27W 12 5.1W,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=41.8km s-min=23.7km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=27.4km s-min=16.7km az=34.4.
NEIC Event type se. Error ellipse: s-maj=22.7km s-min=15.2km az=122.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c39; s99,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.74±.14 $M_{\theta\theta}$-4.48±.12; $M_{\phi\phi}$3.73±.10; $M_{r\theta}$-0.16±.39; $M_{\theta\phi}$-0.88±.13; $M_{\phi r}$2.50±.35; Best double couple: NP1:ϕ_s43.00000°,δ71.00000°,λ22.00000°. NP2:ϕ_s305.00000°,δ69.00000°,λ159.00000°. Principal axes: T 5.2220,Plg29.0000°,Azm264.0000°; N -0.6550,Plg61.0000°,Azm81.0000°; P -4.5750,Plg1.0000°,Azm174.0000° $M_0$4.89800×10^{16}
IDC I 22 06 33 01.6–16 19.66S 178.53W 579–141 4.0,3.3
¶17190720
IDC Error ellipse: s-maj=202.6km s-min=46.8km az=133.0.
IDC I 22 07 01 06.4–3.6 19.07S 177.77W 597–42 4.4,3.5
¶17190724
IDC Error ellipse: s-maj=98.6km s-min=23.9km az=154.0.
IDC I 22 08 01 21.3–2.5 15.55S 178.66W 412–30 3.9,3.5
¶17190726
IDC Error ellipse: s-maj=27.8km s-min=15.0km az=143.0.
ISC I 22 09 46 36.6–.72 15.1S–.10 175.1E–.20 600 3.8b 18 29-135
ISCJB I 22 09 46 35.4–.67 15.1S–.10 175.1E–.10 600 3.7b **¶17190732**
IDC I 22 09 46 35.4–2.7 15.05S 175.11E 583–32 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=14.2km az=27.6.
IDC Error ellipse: s-maj=19.5km s-min=15.6km az=106.0.
IDC I 22 18 34 30.7–6.8 19.72S 177.80W 551–79 4.2,3.5
¶17190761
IDC Error ellipse: s-maj=53.3km s-min=28.1km az=156.0.
IDC I 22 20 11 02.9–9.4 16.97S 179.38W 588–88 4.3,3.5
¶17190763
IDC Error ellipse: s-maj=90.1km s-min=38.0km az=108.0.
ISC I 23 19 15 42.2–.26 20.43S–.03 176.22W–.03 231–2 5.7b 1884 6-177
MOS I 23 19 15 35.5–1.0 20.20S 176.26W 178 5.7b,4.3s **¶16019253**
ISCJB I 23 19 15 36.9–.70 20.34S–.02 176.27W–.02 191–6 5.8b,4.3s
IDC I 23 19 15 39.5–.76 20.31S 176.20W 202–6 5.8,5.4
BJI I 23 19 15 40.0 19.82S 176.25W 208 5.6b,5.6b
GCMT I 23 19 15 42.7–.10 20.43S 175.73W 235–0 5.8W,5.6b
NEIC I 23 19 15 42.7–.10 20.34S 176.29W 236 5.9W,5.7b
ISC Event type fe.
MOS Error ellipse: s-maj=7.2km s-min=6.1km az=65.4.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=154.0.
IDC Error ellipse: s-maj=8.6km s-min=6.8km az=159.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c262; s138,c392;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80±.05 $M_{\theta\theta}$0.83±.06; $M_{\phi\phi}$-0.02±.06; $M_{r\theta}$-1.62±.05; $M_{\theta\phi}$-0.52±.06; $M_{\phi r}$-7.19±.05; Best double couple: NP1: ϕ_s12.00000°,δ89.00000°,λ-88.00000°. NP2:ϕ_s129.00000°,δ3.00000°,λ-153.00000°. Principal axes: T 6.8790,Plg44.0000°,Azm100.0000°; N 1.0070,Plg2.0000°,Azm192.0000°; P -7.8860,Plg46.0000°,Azm285.0000° $M_0$7.38200×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=140.0. Felt at Nausori, Suva and Tubou. Also felt at Nuku'alofa, 'Ohonua and Vaini, Tonga. Moment Tensor Solution. s48 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.32 $M_{\theta\theta}$0.88 $M_{\phi\phi}$2.44 $M_{r\theta}$-1.79 $M_{\theta\phi}$0.18 $M_{\phi r}$-7.30 Best double couple: NP1:ϕ_s13.00000°,δ80.00000°,λ-89.00000°. NP2:ϕ_s186.00000°,δ11.00000°,λ-97.00000°. Principal axes: T 7.6100,Plg35.0000°,Azm102.0000°; N 0.8900,Plg1.0000°,Azm193.0000°; P -8.4900,Plg55.0000°,Azm285.0000° $M_0$8.10000×10^{17}
ISC I 24 02 38 27.9–1.5 17.2S–.60 178.9W–.30 533 3.4b 8 39-87
IDC I 24 02 38 20.8–30 17.06S 178.82W 446–363 4.0,3.5 **¶17190852**
ISCJB I 24 02 38 27.2–1.3 17.2S–.60 179.0W–.40 533 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 24 04 33 38.7–1.5 17.5S–.60 178.4W–.40 547 3.3b 12 15-150
ISCJB I 24 04 33 37.8–1.3 17.4S–.50 178.5W–.40 547 3.3b **¶17190858**
IDC I 24 04 33 42.2–4.9 17.63S 178.46W 593–62 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=83.7km s-min=16.0km az=148.9.
IDC Error ellipse: s-maj=82.6km s-min=24.4km az=154.0.
ISC I 24 04 57 32.2–2.0 19.8S–.70 178.1W–.40 569 3.6b 8 15-142
ISCJB I 24 04 57 31.6–1.9 19.9S–.70 178.1W–.40 569 3.6b **¶17190860**
IDC I 24 04 57 34.7–6.8 19.90S 178.15W 598–82 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=103.4km s-min=16.9km az=150.9.
IDC Error ellipse: s-maj=102.3km s-min=31.4km az=150.0.
ISC I 24 05 33 01.6–.81 17.2S–.20 178.9W–.10 539 3.9b 13 15-94
ISCJB I 24 05 33 00.8–.72 17.2S–.20 178.9W–.10 539 3.9b **¶17190862**
IDC I 24 05 33 08.7–2.8 17.69S 178.85W 643–42 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.1km s-min=13.0km az=159.6.
IDC Error ellipse: s-maj=34.4km s-min=13.9km az=169.0.
IDC I 24 08 17 34.6–18 20.12S 176.27W 172–153 4.0,3.8
¶17190873
IDC Error ellipse: s-maj=130.4km s-min=46.2km az=134.0.
ISC I 24 13 31 10.2–.54 19.3S–.10 176.37W–.10 21 4.3s,4.1b 27 10-174
IDC I 24 13 31 06.8–.76 19.17S 176.47W 0 4.4,4.4 **¶15990751**
ISCJB I 24 13 31 08.7–.49 19.2S–.10 176.59W–.10 21 4.4s,4.3b
NEIC I 24 13 31 08.8–.49 19.29S 176.34W 15 4.5b,4.3b
GCMT I 24 13 31 08.8–.20 19.08S 176.32W 13–1 5.1W,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=32.7km s-min=17.2km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=12.1km az=152.9.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=12.7km az=159.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c91; s107,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.05±.12 $M_{\theta\theta}$-5.11±.12; $M_{\phi\phi}$5.06±.13; $M_{r\theta}$-0.72±.28; $M_{\theta\phi}$-3.20±.11; $M_{\phi r}$1.35±.29; Best double couple: NP1:ϕ_s298.00000°,δ83.00000°,λ168.00000°. NP2:ϕ_s30.00000°,δ78.00000°,λ7.00000°. Principal axes: T 6.3400,Plg13.0000°,Azm254.0000°; N -0.2900,Plg76.0000°,Azm87.0000°; P -6.0500,Plg3.0000°,Azm344.0000° $M_0$6.19500×10^{16}
IDC I 24 18 15 23.9–11 17.40S 177.75W 0 3.7,3.5
¶17190911
IDC Error ellipse: s-maj=498.3km s-min=40.8km az=142.0.

ISC I 24 20 03 23.3–2.0 17.1S–.70 178.8W–.40 533 3.5b 7 33-147
ISCJB I 24 20 03 22.5–1.9 17.2S–.80 178.8W–.40 533 3.5b **¶17190921**
IDC I 24 20 03 24.6–10 17.22S 178.78W 548–123 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=115.0km s-min=19.1km az=154.3.
IDC Error ellipse: s-maj=112.1km s-min=41.9km az=159.0.
ISC I 25 01 46 42.1–1.4 17.1S–.50 179.2W–.30 533 3.5b 11 14-147
ISCJB I 25 01 46 41.1–1.3 17.1S–.50 179.3W–.30 533 3.6b **¶17190932**
IDC I 25 01 46 43.4–4.7 17.22S 179.23W 550–54 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=82.5km s-min=15.4km az=151.2.
IDC Error ellipse: s-maj=70.9km s-min=22.5km az=150.0.
IDC I 25 10 31 12.9–8.6 19.75S 179.04W 0 3.8,3.5
¶17190958
IDC Error ellipse: s-maj=380.2km s-min=39.5km az=145.0.
ISC I 25 12 23 10.3–1.2 19.6S–.40 178.1W–.20 600 3.6b 11 38-149
ISCJB I 25 12 23 09.4–1.3 19.5S–.40 178.2W–.30 600 3.5b **¶17190962**
IDC I 25 12 23 10.8–6.0 19.59S 178.09W 605–69 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=54.8km s-min=18.3km az=149.8.
IDC Error ellipse: s-maj=52.1km s-min=28.3km az=150.0.
IDC I 25 22 09 28.0–56 19.68S 179.15W 0 4.5,4.3
¶17190989
IDC Error ellipse: s-maj=1024.0km s-min=146.1km az=81.0.
ISC I 26 02 18 52.6–2.0 20.0S–.70 179.1W–.30 665 3.3b 9 44-146
IDC I 26 02 18 48.6–3.5 20.24S 178.92W 621–45 3.8,3.3 **¶17191002**
ISC Event type ke.
IDC Error ellipse: s-maj=120.6km s-min=15.0km az=157.0.
IDC I 26 18 57 56.3–1.6 17.06S 178.02W 0 4.4,4.1
¶17191056
IDC Error ellipse: s-maj=101.6km s-min=24.3km az=149.0.
IDC I 26 19 20 03.1–1.7 16.60S 178.13W 0 4.0,3.7
¶17191057
IDC Error ellipse: s-maj=106.5km s-min=25.2km az=150.0.
ISC I 27 03 45 40.8–2.3 20.4S–.60 177.9W–.40 534 4.2b 10 9-147
IDC I 27 03 45 38.2–3.2 20.74S 177.86W 478–28 4.5,3.7 **¶17191076**
ISC Event type ke.
IDC Error ellipse: s-maj=85.5km s-min=18.1km az=146.0.
IDC I 27 16 41 10.0–7.3 18.74S 176.41W 0 3.6,3.4
¶17191127
IDC Error ellipse: s-maj=333.4km s-min=62.2km az=145.0.
IDC I 27 18 03 32.1–2.4 21.32S 178.19W 324–21 4.3,3.8
¶17191136
IDC Error ellipse: s-maj=43.0km s-min=15.1km az=147.0.
ISC I 27 22 05 59.1–1.4 17.0S–.20 177.8W–.20 10 4.2b 9 9-87
IDC I 27 22 05 55.8–4.1 17.46S 177.37W 0 4.2,4.0 **¶16135997**
ISCJB I 27 22 05 58.0–1.3 16.9S–.20 177.9W–.20 10 4.0b,4.0
NEIC I 27 22 05 59.1–.84 17.03S 177.78W 10 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=177.8km s-min=34.4km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=30.1km s-min=16.5km az=34.6.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=11.2km az=126.0.
IDC I 28 00 34 27.3–6.9 18.92S 177.91W 587–74 3.7,3.0
¶17191161
IDC Error ellipse: s-maj=88.8km s-min=34.3km az=148.0.
IDC I 28 08 04 46.0–11 18.30S 178.22W 636–129 3.6,2.9
¶17191182
IDC Error ellipse: s-maj=343.7km s-min=40.2km az=156.0.
IDC I 28 12 00 57.7–7.2 18.67S 177.57W 0 4.3s,4.3
¶17191189
IDC Error ellipse: s-maj=312.9km s-min=39.1km az=143.0.
ISC I 28 12 37 18.7–.35 21.35S–.04 178.60W–.05 569–3 5.2b 1327 5-176
ISCJB I 28 12 37 16.2–.57 21.35S–.03 178.74W–.02 543–7 5.1b **¶15978004**
BJI I 28 12 37 17.8 20.97S 178.46W 560 5.2b,5.2b
MOS I 28 12 37 18.9–.88 21.20S 178.80W 573 5.2b,5.2b
IDC I 28 12 37 18.7–1.0 21.31S 178.68W 563–10 5.5,4.7
GCMT I 28 12 37 19.4–.30 21.08S 178.81W 581–2 5.3W,4.7
NEIC I 28 12 37 19.4–.10 21.39S 178.75W 572 5.2b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.1km az=168.4.
MOS Error ellipse: s-maj=9.5km s-min=7.5km az=68.4.
IDC Error ellipse: s-maj=10.1km s-min=9.0km az=108.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s79,c115;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.72±.03 $M_{\theta\theta}$0.81±.05; $M_{\phi\phi}$-0.08±.05; $M_{r\theta}$-1.01±.05; $M_{\theta\phi}$-0.14±.05; $M_{\phi r}$-0.33±.05; Best double couple: NP1:ϕ_s78.00000°,δ73.00000°,λ-105.00000°. NP2:ϕ_s299.00000°,δ22.00000°,λ-51.00000°. Principal axes: T 1.3120,Plg26.0000°,Azm179.0000°; N 0.0140,Plg14.0000°,Azm82.0000°; P -1.3260,Plg60.0000°,Azm327.0000° $M_0$1.31900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=139.0.
ISC I 28 12 41 01.7–.44 19.20S–.05 178.05W–.05 615–4 5.0b 875 8-174
ISCJB I 28 12 41 00.0–.54 19.18S–.04 178.17W–.03 601–6 5.0b **¶16019274**
BJI I 28 12 41 00.8 18.89S 178.18W 602 5.1b,5.0b
IDC I 28 12 41 00.9–1.2 19.25S 178.04W 605–13 5.3,4.6
GCMT I 28 12 41 02.8–.50 19.20S 178.07W 623–4 5.4W,4.6
NEIC I 28 12 41 02.9–.11 19.16S 178.22W 623 4.9b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=2.9km az=158.5.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=125.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s70,c94;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.18±.05 $M_{\theta\theta}$1.27±.08; $M_{\phi\phi}$-1.09±.09; $M_{r\theta}$-0.18±.09; $M_{\theta\phi}$-0.56±.09; $M_{\phi r}$-1.11±.09; Best double couple: NP1:ϕ_s323.00000°,δ70.00000°,λ-27.00000°. NP2:ϕ_s63.00000°,δ65.00000°,λ-158.00000°. Principal axes: T 1.4000,Plg4.0000°,Azm14.0000°; N 0.5360,Plg57.0000°,Azm110.0000°; P -1.9330,Plg33.0000°,Azm282.0000° $M_0$1.66600×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=2.9km az=146.0.
IDC I 28 15 03 11.8–60 18.03S 179.37W 0 4.0,3.8
¶17191197
IDC Error ellipse: s-maj=1095.0km s-min=169.8km az=79.0.
IDC I 28 20 48 02.3–78 18.53S 179.57W 0 4.1,3.9
¶17191214
IDC Error ellipse: s-maj=1408.0km s-min=164.1km az=79.0.
IDC I 29 01 04 53.5–2.7 18.57S 177.50W 0 4.0,3.7
¶17191221
IDC Error ellipse: s-maj=242.0km s-min=26.1km az=157.0.
ISC I 29 02 41 18.5–.41 17.98S–.06 178.04W–.05 594–4 4.8b 551 7-175
BJI I 29 02 41 14.1 18.04S 177.34W 585 5.0b,4.9b **¶16019276**
ISCJB I 29 02 41 17.4–.53 17.92S–.05 178.12W–.03 587–7 4.7b,4.9b
GCMT I 29 02 41 18.9–.60 17.88S 178.17W 618–4 5.3W,4.9b
NEIC I 29 02 41 18.9–.17 17.89S 178.16W 594 4.8b,4.9b
MOS I 29 02 41 18.1–1.3 17.71S 178.22W 585 4.8b,4.9b
IDC I 29 02 41 19.4–.63 17.96S 178.08W 599–7 5.1,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.2km az=159.2.
GCMT Error ellipse: s-maj=4.4km s-min=6.7km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s59,c78;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.37±.03 $M_{\theta\theta}$-0.10±.06; $M_{\phi\phi}$0.47±.06; $M_{r\theta}$-0.58±.06; $M_{\theta\phi}$0.18±.06; $M_{\phi r}$-0.59±.06; Best double couple: NP1:ϕ_s42.00000°,δ78.00000°,λ-74.00000°. NP2:ϕ_s168.00000°,δ21.00000°,λ-142.00000°. Principal axes: T 0.9690,Plg31.0000°,Azm118.0000°; N -0.0380,Plg16.0000°,Azm218.0000°; P -0.9320,Plg55.0000°,Azm332.0000° $M_0$0.95100×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=3.9km az=153.0.
MOS Error ellipse: s-maj=9.0km s-min=8.7km az=79.0.
IDC Error ellipse: s-maj=11.2km s-min=7.4km az=153.0.
ISC I 29 11 00 51.7–1.4 17.5S–.40 178.0W–.30 400 3.7b 11 34-147
ISCJB I 29 11 00 50.7–1.5 17.4S–.40 178.1W–.30 400 3.6b **¶17191252**
IDC I 29 11 00 53.6–7.6 17.53S 178.04W 421–76 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=62.1km s-min=17.3km az=145.0.
IDC Error ellipse: s-maj=53.3km s-min=25.8km az=135.0.
IDC I 29 21 16 41.8–12 17.28S 178.95W 516–117 4.1,3.4
¶17191272

IDC Error ellipse: s-maj=115.8km s-min=47.9km az=129.0.
IDC I 30 01 07 10.3–2.2 15.64S 177.70W 399–29 4.2,3.8 ¶17191278

IDC Error ellipse: s-maj=79.9km s-min=13.1km az=151.0.
IDC I 30 01 33 02.0–5.8 21.32S 179.18W 0 3.9,3.6b ¶17191279

IDC Error ellipse: s-maj=291.1km s-min=57.5km az=151.0.
IDC I 30 07 14 07.9–6.1 17.94S 177.46W 0 3.9,3.8 ¶17191297

IDC Error ellipse: s-maj=288.8km s-min=37.5km az=138.0.
ISC I 31 02 34 54.3–1.4 20.5S–.50 179.2W–.30 645 3.5b 15 13-150
IDC I 31 02 34 51.0–4.2 20.61S 179.02W 606–47 3.9,3.3 ¶17191379
ISCJB I 31 02 34 53.0–1.4 20.6S–.60 179.2W–.30 645 3.4b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 31 05 48 34.0–1.0 20.6S–.40 178.2W–.20 534 3.5b 11 44-173
IDC I 31 05 48 34.5–6.2 20.60S 178.20W 538–66 4.0,3.5 ¶17191391
ISC Event type ke.
IDC Error ellipse: s-maj=42.7km s-min=23.9km az=147.0.
ISC I 31 15 38 43.5–2.1 21.5S–.40 178.3W–.30 536 3.9b 13 33-151
ISCJB I 31 15 38 43.3–2.7 21.4S–.50 178.5W–.40 536 3.9b ¶17191416
IDC I 31 15 38 43.5–8.5 21.45S 178.31W 535–82 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=79.0km s-min=21.0km az=137.8.
IDC Error ellipse: s-maj=63.0km s-min=30.8km az=120.0.
IDC I 31 17 41 18.6–5.1 16.43S 176.34W 0 4.2,4.0 ¶17191425

IDC Error ellipse: s-maj=149.4km s-min=99.7km az=152.0.
ISC II 01 04 10 43.1–.51 16.2S–.10 176.1W–.10 360 4.0b 39 5-176
ISCJB II 01 04 10 42.0–.51 16.3S–.10 176.10W–.10 360 4.1b ¶17191455
IDC II 01 04 10 43.1–1.3 16.22S 176.11W 356–14 4.4,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=8.4km az=148.3.
IDC Error ellipse: s-maj=22.5km s-min=10.8km az=135.0.
IDC II 01 04 34 07.4–2.3 16.82S 178.17W 0 4.4,4.1 ¶17191456

IDC Error ellipse: s-maj=127.3km s-min=25.3km az=145.0.
ISC II 01 05 49 52.8–1.1 17.4S–.40 178.6W–.20 547 3.9b 16 7-147
ISCJB II 01 05 49 52.3–.91 17.4S–.40 178.6W–.20 547 4.0b ¶17191457
IDC II 01 05 49 54.5–1.7 17.60S 178.49W 573–20 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.2km s-min=11.2km az=155.0.
IDC Error ellipse: s-maj=49.7km s-min=11.3km az=154.0.
ISC II 01 09 52 12.7–.74 18.9S–.20 177.2W–.10 350 4.2b 29 7-149
ISCJB II 01 09 52 11.7–.61 18.9S–.20 177.2W–.10 350 4.2b ¶16337740
NEIC II 01 09 52 12.1–1.3 18.86S 177.19W 343–13 4.6b
IDC II 01 09 52 19.0–2.9 18.85S 177.35W 407–29 4.6,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.8km s-min=10.0km az=149.6.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=9.4km az=149.0.
IDC Error ellipse: s-maj=32.5km s-min=11.4km az=152.0.
IDC II 02 05 05 20.0–15 16.64S 177.03W 457–162 3.5,3.1 ¶17191521

IDC Error ellipse: s-maj=107.8km s-min=33.0km az=130.0.
ISC II 02 10 52 58.0–1.1 18.0S–.20 177.9W–.20 590 3.5b 10 39-148
ISCJB II 02 10 52 56.7–1.1 18.0S–.20 177.9W–.20 590 3.5b ¶17191538
IDC II 02 10 52 57.9–7.2 17.98S 177.85W 587–80 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.2km s-min=20.8km az=38.6.
IDC Error ellipse: s-maj=40.3km s-min=28.9km az=101.0.
IDC II 03 08 43 22.4–18 16.94S 179.27W 673–171 3.8,3.0 ¶17191585

IDC Error ellipse: s-maj=266.1km s-min=46.4km az=131.0.
ISC II 04 23 36 42.5–.39 18.18S–.07 178.28W–.06 579 4.4b 149 8-175
BJI II 04 23 36 41.6 18.10S 178.30W 582 4.9b,4.5b ¶16007302
IDC II 04 23 36 42.0–1.6 18.22S 178.26W 575–18 4.5,3.8
ISCJB II 04 23 36 42.0–.30 18.17S–.06 178.38W–.06 579 4.4b,3.8
NEIC II 04 23 36 43.4–.62 18.07S 178.41W 577–8 4.6b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=10.2km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=144.2.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.7km az=140.0.
IDC II 06 20 17 11.4–13 19.58S 178.20W 629–116 4.3,3.3 ¶17191823

IDC Error ellipse: s-maj=132.8km s-min=38.2km az=106.0.
IDC II 07 02 20 34.2–7.9 19.70S 178.52W 495–94 3.7,3.2 ¶17191841

IDC Error ellipse: s-maj=170.9km s-min=30.0km az=156.0.
IDC II 07 19 52 41.9–2.3 21.09S 178.43W 520–25 4.3,3.7 ¶17191876

IDC Error ellipse: s-maj=38.9km s-min=21.3km az=141.0.
IDC II 08 20 01 17.5–56 16.39S 176.50W 0 4.1,3.9b ¶17191906

IDC Error ellipse: s-maj=1037.0km s-min=179.9km az=78.0.
ISC II 09 00 05 59.3–.96 19.8S–.20 177.7W–.20 550 3.5b 8 19-150
ISCJB II 09 00 05 58.5–.90 19.8S–.20 177.8W–.20 550 3.4b ¶17191919
IDC II 09 00 05 58.8–9.0 19.83S 177.64W 543–108 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.9km s-min=19.7km az=136.0.
IDC Error ellipse: s-maj=60.8km s-min=27.2km az=3.0.
IDC II 09 09 11 41.0–2.6 17.01S 176.35W 0 4.4,4.4L ¶17191936

IDC Error ellipse: s-maj=179.5km s-min=30.7km az=151.0.
ISC II 09 11 06 14.2–1.5 18.2S–.40 178.2W–.30 590 3.5b 12 15-148
IDC II 09 11 06 12.6–5.0 18.15S 178.09W 568–58 4.0,3.4 ¶17191941
ISCJB II 09 11 06 13.5–1.3 18.1S–.40 178.2W–.30 590 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC II 09 13 23 26.8–60 16.24S 177.11W 0 3.9,3.7 ¶17191947

IDC Error ellipse: s-maj=1122.0km s-min=172.0km az=77.0.
ISC II 09 15 30 31.5–.00 21.1S–.30 177.1W–.20 450 3.5b 13 9-151
ISCJB II 09 15 30 30.0–.74 21.0S–.20 177.2W–.20 450 3.6b ¶17191948
IDC II 09 15 30 32.9–2.3 21.02S 177.16W 475–27 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.2km s-min=9.7km az=135.8.
IDC Error ellipse: s-maj=32.1km s-min=14.4km az=143.0.
IDC II 10 00 04 05.4–5.5 19.35S 176.19W 0 4.4,4.2 ¶17191978

IDC Error ellipse: s-maj=174.3km s-min=67.5km az=135.0.
IDC II 10 01 01 52.7–2.8 18.57S 179.49W 0 4.5,4.3 ¶17191983

IDC Error ellipse: s-maj=74.0km s-min=54.8km az=33.0.
ISC II 10 04 46 26.6–.61 15.0S–.20 177.3W–.10 372 4.1b 24 5-147
ISCJB II 10 04 46 25.5–.54 15.1S–.10 177.3W–.10 372 4.0b ¶17191993
IDC II 10 04 46 25.4–1.9 14.97S 177.40W 355–20 4.4,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=10.7km az=149.8.
IDC Error ellipse: s-maj=26.3km s-min=10.9km az=141.0.
IDC II 10 08 06 26.3–6.0 20.27S 178.47W 563–64 4.2,3.6 ¶17191998

IDC Error ellipse: s-maj=78.9km s-min=23.5km az=150.0.
ISC II 10 09 58 37.0–.86 18.0S–.20 178.5W–.20 579 3.4b 12 21-148
IDC II 10 09 58 32.1–5.4 17.82S 178.45W 520–63 3.9,3.3 ¶17192003
ISCJB II 10 09 58 35.7–.74 18.0S–.20 178.5W–.20 579 3.4b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC II 11 01 29 26.2–.47 15.11S–.05 177.59W–.04 359–4 4.9b 914 6-178
MOS II 11 01 29 24.3–1.3 14.97S 177.68W 346 5.0b ¶16020428
ISCJB II 11 01 29 24.3–.69 15.04S–.04 177.67W–.02 344–6 4.8b
IDC II 11 01 29 25.2–1.0 15.08S 177.60W 348–10 5.0,4.4
NEIC II 11 01 29 26.5–.46 15.04S 177.70W 356–4 4.8b,4.4
GCMT II 11 01 29 26.5–.50 14.90S 177.52W 365–3 5.2W,4.4
BJI II 11 01 29 26.2 14.48S 177.43W 353 5.0b,4.8b
ISC Event type se.
MOS Error ellipse: s-maj=8.5km s-min=7.3km az=142.1.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.2km az=158.9.
IDC Error ellipse: s-maj=10.1km s-min=6.8km az=143.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=143.0.
GCMT Error ellipse: s-maj=4.4km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s55,c68;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.25±.37 $M_{\theta\theta}$-1.28±.72; $M_{\phi\phi}$5.53±.53; $M_{r\theta}$-2.11±.58; $M_{\theta\phi}$1.46±.54; $M_{\phi r}$-4.67±.49; Best double couple: NP1:ϕ_s23.00000°,δ68.00000°,λ-79.00000°. NP2:ϕ_s175.00000°,δ24.00000°,λ-115.00000°. Principal axes: T 7.9080,Plg23.0000°,Azm104.0000°; N -1.3790,Plg10.0000°,Azm199.0000°; P -6.5290,Plg65.0000°,Azm311.0000° $M_0$7.21900×10^{16}
IDC II 11 02 14 33.8–6.2 17.62S 178.15W 604–70 4.0,3.3 ¶17192042

IDC Error ellipse: s-maj=84.7km s-min=30.5km az=149.0.
IDC II 11 14 29 56.7–5.1 16.01S 176.12W 0 4.5,4.3 ¶17192080

IDC Error ellipse: s-maj=161.9km s-min=100.4km az=152.0.
ISC II 11 23 31 38.6–1.2 17.1S–.30 178.5W–.20 453 3.7b 9 39-146
ISCJB II 11 23 31 37.7–1.1 17.1S–.30 178.6W–.20 453 3.9b ¶17192095
IDC II 11 23 31 41.1–7.5 17.21S 178.57W 483–87 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.5km s-min=17.1km az=149.5.
IDC Error ellipse: s-maj=49.0km s-min=26.5km az=157.0.
IDC II 12 03 26 14.0–5.1 21.34S 178.88W 642–70 3.8,3.2 ¶17192102

IDC Error ellipse: s-maj=52.9km s-min=22.9km az=175.0.
ISC II 13 12 00 38.4–1.2 17.6S–.30 178.8W–.20 539 3.4b 11 38-147
ISCJB II 13 12 00 37.7–1.1 17.5S–.30 178.9W–.20 539 3.5b ¶17192151
IDC II 13 12 00 38.5–10 17.58S 178.81W 539–129 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.9km s-min=16.5km az=147.0.
IDC Error ellipse: s-maj=40.1km s-min=36.4km az=1.0.
IDC II 13 15 30 14.2–4.4 18.18S 176.66W 0 4.3,4.1 ¶17192159

IDC Error ellipse: s-maj=194.9km s-min=32.0km az=139.0.
ISC II 13 19 06 00.2–.39 21.10S–.06 176.70W–.07 250 4.6b 177 6-172
BJI II 13 19 05 52.5 20.90S 176.60W 206 5.3b,4.8b ¶16168849
NEIC II 13 19 05 56.4–2.1 20.81S 176.79W 217–20 5.1b,4.8b
ISCJB II 13 19 05 58.4–.26 21.03S–.03 176.69W–.06 250 4.5b,4.8b
IDC II 13 19 05 58.9–1.9 20.72S 176.76W 234–16 4.5,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.7km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=3.8km az=7.9.
IDC Error ellipse: s-maj=12.6km s-min=11.9km az=133.0.
IDC II 13 22 19 58.2–10 20.92S 178.16W 604–116 4.1,3.4 ¶17192175

IDC Error ellipse: s-maj=132.5km s-min=59.7km az=143.0.
ISC II 14 23 44 06.3–.92 22.0S–.10 176.2W–.20 137 4.6b 40 7-152
NEIC II 14 23 44 00.9–2.3 21.77S 176.08W 92–20 4.8b ¶16398216
IDC II 14 23 44 03.4–8.8 21.73S 176.21W 104–72 4.3,4.1
ISCJB II 14 23 44 04.9–1.1 21.99S–.07 176.2W–.20 137 4.5b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 15 05 09 47.6–6.7 21.37S 178.52W 598–81 3.8,3.2 ¶17192284

IDC Error ellipse: s-maj=51.5km s-min=33.0km az=3.0.
ISC II 15 10 48 31.8–1.2 21.2S–.30 178.2W–.20 495 3.8b 18 17-151
ISCJB II 15 10 48 30.8–.70 21.3S–.10 178.3W–.20 495 3.7b ¶17192298
IDC II 15 10 48 31.4–4.0 21.41S 178.22W 498–47 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.2km s-min=15.0km az=42.3.
IDC Error ellipse: s-maj=28.1km s-min=20.0km az=166.0.
IDC II 15 23 20 22.2–2.9 18.61S 176.58W 0 3.9,3.6 ¶17192330

IDC Error ellipse: s-maj=316.5km s-min=33.9km az=160.0.
IDC II 16 00 46 29.9–20 19.36S 178.03W 404–236 3.4,3.0 ¶17192331

IDC Error ellipse: s-maj=279.2km s-min=43.4km az=169.0.
ISC II 16 15 55 59.8–.51 20.21S–.06 177.58W–.06 526–4 4.8b 350 5-173
ISCJB II 16 15 55 59.4–.63 20.19S–.04 177.66W–.05 524–8 4.7b ¶16168864
BJI II 16 15 55 59.3 20.20S 177.60W 529 5.0b,4.7b
NEIC II 16 15 56 00.8–.69 20.19S 177.64W 533–7 5.0b,4.7b
MOS II 16 15 56 04.8–2.2 18.92S 178.45W 519 4.7b,4.7b
IDC II 16 15 56 04.3–1.7 20.29S 177.75W 570–19 4.9,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.3km az=19.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=110.0.
MOS Error ellipse: s-maj=13.4km s-min=10.9km az=178.4.
IDC Error ellipse: s-maj=12.9km s-min=9.6km az=144.0.
ISC II 16 21 34 16.2–.31 19.88S–.06 177.60W–.06 350 4.7b 395 8-173
MOS II 16 21 34 08.0–2.0 19.54S 177.71W 256 5.0b ¶16029813
NEIC II 16 21 34 14.8–1.0 19.84S 177.67W 328–10 4.8b
IDC II 16 21 34 14.1–1.2 19.88S 177.61W 323–11 4.8,4.3
ISCJB II 16 21 34 15.8–.14 19.90S–.04 177.72W–.04 350 4.7b,4.3
BJI II 16 21 34 18.7 19.90S 177.60W 378 5.1b,4.5b
ISC Event type se.
MOS Error ellipse: s-maj=10.0km s-min=9.1km az=148.8.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.6km az=145.0.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.7km az=136.6.
IDC II 16 21 43 51.7–18 17.64S 177.76W 452–168 4.3,3.7 ¶17192386

IDC Error ellipse: s-maj=144.3km s-min=69.5km az=115.0.
IDC II 17 10 35 33.2–2.9 21.38S 176.67W 0 3.9,3.6 ¶17192412

IDC Error ellipse: s-maj=267.3km s-min=32.9km az=162.0.
IDC II 18 05 45 04.1–16 20.50S 179.43W 258–162 4.3,3.9 ¶17192461

IDC Error ellipse: s-maj=108.9km s-min=40.2km az=168.0.
ISC II 18 10 06 41.8–.80 21.1S–.10 178.8W–.10 619 3.8b 18 10-147
ISCJB II 18 10 06 40.4–.67 21.1S–.10 178.8W–.10 619 3.9b ¶17192471
IDC II 18 10 06 40.7–2.3 21.04S 178.80W 603–29 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=12.9km az=37.7.
IDC Error ellipse: s-maj=16.8km s-min=14.2km az=152.0.
ISC II 18 10 07 20.3–.75 21.2S–.20 178.8W–.10 619 4.0b 23 14-172
ISCJB II 18 10 07 19.1–.66 21.2S–.10 178.8W–.10 619 4.0b ¶17192474
IDC II 18 10 07 20.3–2.0 21.15S 178.79W 618–24 4.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=11.1km az=150.6.
IDC Error ellipse: s-maj=21.2km s-min=10.9km az=157.0.
ISC II 18 16 13 03.6–.86 20.7S–.20 178.4W–.20 587 4.0b 56 14-151
IDC II 18 16 13 01.5–2.1 20.64S 178.38W 561–22 4.4,3.7 ¶17192492
ISCJB II 18 16 13 02.2–.85 20.7S–.10 178.4W–.20 587 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 19 08 55 21.2–.32 16.87S–.07 177.31W–.06 403 4.7b 306 6-176
BJI II 19 08 55 19.8 16.90S 177.40W 394 5.1b,4.8b ¶16032639
ISCJB II 19 08 55 20.4–.19 16.91S–.04 177.45W–.04 403 4.6b,4.8b
IDC II 19 08 55 20.8–1.2 17.04S 177.27W 402–12 4.7,4.1
NEIC II 19 08 55 21.0–.66 16.89S 177.41W 397–6 4.7b,4.1
MOS II 19 08 55 21.9–.97 16.76S 177.55W 411 4.8b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=44.1.
IDC Error ellipse: s-maj=11.8km s-min=8.8km az=147.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=135.0.
MOS Error ellipse: s-maj=11.3km s-min=10.2km az=165.1.

ISC II 19 09 18 14.4–.63 20.5S–.10 178.2W–.20 534 3.8b 24 18-173
ISCJB II 19 09 18 14.1–.53 20.50S–.09 178.3W–.10 534 3.8b ¶17192526
IDC II 19 09 18 18.9–3.5 20.66S 178.17W 588–40 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=11.3km az=14.2.
IDC Error ellipse: s-maj=20.8km s-min=13.4km az=100.0.
IDC II 19 23 48 41.4–5.5 20.09S 178.27W 555–58 4.0,3.5
¶17192556
IDC Error ellipse: s-maj=98.5km s-min=21.3km az=154.0.
ISC II 20 01 19 29.0–1.6 19.0S–.60 177.6W–.30 400 3.8b 11 15-95
ISCJB II 20 01 19 28.2–1.4 18.8S–.60 177.7W–.30 400 3.7b ¶17192564
IDC II 20 01 19 30.5–7.7 19.05S 177.59W 416–84 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=85.5km s-min=14.1km az=151.5.
IDC Error ellipse: s-maj=87.9km s-min=25.0km az=154.0.
IDC II 20 03 22 38.6–9.3 19.87S 177.54W 549–105 3.5,3.0
¶17192567
IDC Error ellipse: s-maj=172.0km s-min=39.3km az=153.0.
IDC II 20 13 29 36.9–58 21.39S 177.02W 0 3.9,3.7
¶17192588
IDC Error ellipse: s-maj=1076.0km s-min=167.2km az=85.0.
ISC II 20 19 46 55.8–1.1 19.3S–.20 177.4W–.20 500 3.8b 11 8-152
ISCJB II 20 19 46 55.5–.85 19.3S–.20 177.6W–.20 500 3.8b ¶17192600
IDC II 20 19 46 57.4–7.6 19.31S 177.46W 519–81 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.3km s-min=10.9km az=140.1.
IDC Error ellipse: s-maj=47.6km s-min=27.9km az=28.0.
ISC II 21 00 42 05.0–.68 18.3S–.20 178.0W–.10 600 4.0b 63 7-150
ISCJB II 21 00 42 03.9–.59 18.3S–.10 178.00W–.10 600 3.9b ¶17192610
IDC II 21 00 42 03.0–1.4 18.27S 178.04W 567–17 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=8.2km az=149.7.
IDC Error ellipse: s-maj=18.8km s-min=11.8km az=144.0.
IDC II 22 04 22 48.2–3.0 19.97S 176.72W 0 4.5,4.3
¶17192673
IDC Error ellipse: s-maj=151.4km s-min=39.4km az=149.0.
IDC II 22 10 29 48.2–2.5 21.22S 178.32W 509–35 3.7,2.9
¶17192699
IDC Error ellipse: s-maj=40.3km s-min=21.0km az=136.0.
IDC II 22 15 36 26.1–7.1 18.87S 177.90W 0 4.0,3.7
¶17192711
IDC Error ellipse: s-maj=303.4km s-min=41.1km az=144.0.
IDC II 23 15 59 06.5–1.4 16.14S 178.39W 0 4.1,3.8
¶17192749
IDC Error ellipse: s-maj=48.3km s-min=27.1km az=126.0.
ISC II 24 18 32 00.5–.48 18.02S–.05 178.30W–.05 623–5 4.9b 548 3-175
ISCJB II 24 18 31 59.5–.43 18.09S–.04 178.40W–.03 619–6 4.9b ¶16155427
MOS II 24 18 32 00.3–1.0 17.90S 178.47W 623 4.6b
NEIC II 24 18 32 01.4–.49 18.06S 178.42W 629–6 5.3b
BJI II 24 18 32 01.0 17.58S 178.39W 620 5.0b,4.9b
IDC II 24 18 32 01.4–1.1 18.03S 178.38W 632–13 5.0,4.2
GCMT II 24 18 32 01.4–.40 17.92S 178.20W 648–4 5.2W,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.5km az=154.5.
MOS Error ellipse: s-maj=10.0km s-min=8.1km az=151.1.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=145.0.
IDC Error ellipse: s-maj=11.3km s-min=8.4km az=154.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s56,c78;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.46±.04 $M_{\theta\theta}$0.89±.05; $M_{\phi\phi}$-0.42±.05; $M_{r\theta}$-0.01±.05; $M_{\theta\phi}$0.46±.06; $M_{\phi r}$-0.04±.06; Best double couple: NP1:ϕ_s29.00000°,δ79.00000°,λ-167.00000°. NP2:ϕ_s296.00000°,δ77.00000°,λ-12.00000°. Principal axes: T 1.0290,Plg1.0000°,Azm163.0000°; N -0.4540,Plg73.0000°,Azm69.0000° ; P -0.5750,Plg17.0000°,Azm253.0000° $M_0$0.80200×10^{17}
ISC II 24 23 59 42.5–.72 13.8S–.10 177.56W–.08 35 4.0b,3.5s 19 6-88
IDC II 24 23 59 37.5–.95 13.45S 177.85W 0 4.4,4.4L ¶16363019
NEIC II 24 23 59 39.0–.36 13.51S 177.82W 10 4.0b,4.4L
ISC Event type se.
IDC Error ellipse: s-maj=59.1km s-min=18.6km az=154.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.2km az=138.0.
IDC II 25 01 15 17.9–5.3 17.15S 176.75W 0 4.5,4.2
¶17192814
IDC Error ellipse: s-maj=314.2km s-min=72.6km az=153.0.
IDC II 25 07 47 18.1–6.4 21.31S 176.61W 0 3.9,3.7
¶17192824
IDC Error ellipse: s-maj=412.9km s-min=81.5km az=157.0.
IDC II 25 08 16 07.8–54 18.10S 178.72W 0 4.3,4.1
¶17192825
IDC Error ellipse: s-maj=993.3km s-min=150.2km az=79.0.
IDC II 25 12 07 04.4–55 16.06S 177.45W 0 3.8,3.7
¶17192835
IDC Error ellipse: s-maj=1024.0km s-min=162.6km az=77.0.
ISC II 25 17 37 47.0–.86 17.6S–.20 179.0W–.20 539 3.9b 13 8-147
IDC II 25 17 37 44.0–1.7 17.56S 178.90W 503–20 4.4,3.7 ¶17192854
ISCJB II 25 17 37 45.9–.76 17.6S–.20 179.0W–.20 539 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 25 18 11 21.9–13 19.88S 177.36W 525–140 4.3,3.6
¶17192856
IDC Error ellipse: s-maj=91.7km s-min=37.5km az=29.0.
IDC II 25 20 40 28.1–48 16.59S 178.29W 0 4.3,4.1
¶17192865
IDC Error ellipse: s-maj=877.0km s-min=154.2km az=77.0.
ISC II 25 22 29 45.6–1.4 17.2S–.60 178.9W–.40 539 3.5b 11 39-147
ISCJB II 25 22 29 45.1–1.4 17.1S–.60 179.0W–.40 539 3.6b ¶17192869
IDC II 25 22 29 47.6–6.0 17.43S 178.80W 562–67 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=88.1km s-min=18.2km az=149.4.
IDC Error ellipse: s-maj=79.0km s-min=25.6km az=152.0.
ISC II 26 09 19 31.7–1.3 17.0S–.40 178.6W–.30 453 3.2b 10 39-147
ISCJB II 26 09 19 30.8–1.2 17.0S–.40 178.7W–.30 453 3.3b ¶17192898
IDC II 26 09 19 40.0–12 17.24S 178.70W 553–153 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=65.7km s-min=16.5km az=148.9.
IDC Error ellipse: s-maj=91.6km s-min=34.5km az=168.0.
IDC II 26 11 16 05.5–54 18.29S 177.95W 0 3.9,3.7
¶17192902
IDC Error ellipse: s-maj=988.7km s-min=162.1km az=80.0.
IDC II 26 15 31 26.1–5.5 18.51S 177.38W 0 3.8,3.7L
¶17192908
IDC Error ellipse: s-maj=311.4km s-min=28.7km az=149.0.
ISC II 26 16 03 12.2–.79 16.05S–.08 176.38W–.06 361–8 4.8b 477 5-177
ISCJB II 26 16 03 11.7–.67 16.03S–.06 176.47W–.04 364–6 4.7b ¶16160470
IDC II 26 16 03 11.5–1.0 16.10S 176.34W 355–10 4.7,4.3
BJI II 26 16 03 11.8 15.95S 176.41W 361 5.1b,4.6b
NEIC II 26 16 03 12.4–.99 16.02S 176.45W 364–10 4.8b,4.6b
MOS II 26 16 03 12.2–1.2 15.91S 176.43W 367 4.9b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=3.9km az=151.7.
IDC Error ellipse: s-maj=17.2km s-min=8.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=4.7km az=148.0.
MOS Error ellipse: s-maj=11.4km s-min=9.2km az=140.7.
ISC II 27 04 52 53.2–.66 20.3S–.10 178.0W–.10 534 4.0b 62 9-173
ISCJB II 27 04 52 52.5–.65 20.4S–.10 178.1W–.10 534 3.8b ¶17192933
IDC II 27 04 52 52.5–1.9 20.41S 178.11W 521–21 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=9.3km az=148.0.
IDC Error ellipse: s-maj=20.7km s-min=12.1km az=150.0.
IDC II 27 12 52 39.2–4.0 16.36S 177.43W 0 4.7,4.5
¶17192952
IDC Error ellipse: s-maj=170.2km s-min=44.1km az=138.0.
ISC II 28 02 24 27.7–.60 15.0S–.20 176.40W–.10 17 4.8b,4.6s 55 5-148
IDC II 28 02 24 24.6–1.2 14.95S 176.78W 0 4.7,4.5 ¶16349994
NEIC II 28 02 24 25.8–.48 15.14S 176.51W 10 5.0b,4.5
ISCJB II 28 02 24 26.1–.55 15.0S–.10 176.50W–.08 17 4.8b,4.6s
GCMT II 28 02 24 39.8–.20 14.94S 176.67W 15 5.2W,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=61.8km s-min=18.4km az=147.0.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=10.5km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=22.1km s-min=8.9km az=163.3.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c49; s95,c160; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.02 $M_{\theta\theta}$0.81±.01; $M_{\phi\phi}$-0.09±.02; $M_{r\theta}$0.03±.06; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$0.42±.09; Best double couple: NP1:ϕ_s235.00000°,δ55.00000° ,λ-123.00000°. NP2:ϕ_s104.00000°,δ47.00000°,λ-52.00000°. Principal axes: T 0.8450,Plg4.0000°,Azm348.0000°; N 0.0810,Plg27.0000°,Azm256.0000° ; P -0.9260,Plg63.0000°,Azm86.0000° $M_0$0.88600×10^{17}
IDC II 28 04 33 42.8–13 16.79S 179.23W 430–161 3.7,3.3
¶17192979
IDC Error ellipse: s-maj=116.6km s-min=36.8km az=160.0.
IDC II 28 20 02 32.7–19 21.27S 177.03W 346–153 3.9,3.3
¶17193014
IDC Error ellipse: s-maj=151.6km s-min=70.8km az=121.0.
IDC II 28 20 20 03.6–46 18.39S 177.11W 520–381 4.3,3.5
¶17193015
IDC Error ellipse: s-maj=344.4km s-min=101.0km az=69.0.
ISC III 01 09 33 53.0–1.1 18.2S–.30 178.2W–.20 600 3.9b 22 34-151
IDC III 01 09 33 51.3–4.1 18.20S 178.15W 578–45 4.3,3.7 ¶17193059
ISCJB III 01 09 33 52.1–1.0 18.2S–.30 178.3W–.20 600 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 01 17 33 18.2–2.0 20.8S–.30 177.4W–.30 400 4.1b 25 29-147
ISCJB III 01 17 33 17.7–1.9 20.7S–.30 177.6W–.30 400 4.0b ¶17193085
IDC III 01 17 33 20.0–10 21.00S 177.30W 433–100 4.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=53.1km s-min=15.2km az=41.7.
IDC Error ellipse: s-maj=68.7km s-min=30.3km az=112.0.
IDC III 02 04 02 29.5–65 21.27S 177.52W 0 4.4,4.3
¶17193107
IDC Error ellipse: s-maj=1190.0km s-min=160.2km az=84.0.
IDC III 02 06 33 17.3–53 18.07S 177.97W 0 4.2,4.1
¶17193112
IDC Error ellipse: s-maj=971.1km s-min=167.5km az=79.0.
IDC III 02 16 35 52.4–3.1 21.33S 176.26W 0 4.3,4.1
¶17193149
IDC Error ellipse: s-maj=127.4km s-min=57.7km az=159.0.
IDC III 03 17 56 38.4–2.1 21.43S 179.65W 0 4.3,4.0b
¶17193201
IDC Error ellipse: s-maj=112.4km s-min=27.1km az=152.0.
IDC III 04 01 28 58.1–61 21.61S 178.85W 0 4.3,4.1
¶17193214
IDC Error ellipse: s-maj=1104.0km s-min=154.7km az=84.0.
ISC III 04 14 39 15.8–1.2 17.4S–.70 178.8W–.30 539 3.8b 9 8-87
IDC III 04 14 39 16.0–2.1 17.42S 178.83W 539–27 4.0,3.4 ¶17193235
ISCJB III 04 14 39 15.0–1.1 17.4S–.70 178.9W–.40 539 3.6b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 04 21 16 36.7–.93 14.9S–.20 177.8W–.10 379 3.7b 11 6-145
ISCJB III 04 21 16 35.8–.85 14.9S–.20 177.9W–.10 379 3.6b ¶17193247
IDC III 04 21 16 36.9–2.3 14.89S 177.87W 380–29 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.5km s-min=14.9km az=157.9.
IDC Error ellipse: s-maj=48.6km s-min=13.9km az=145.0.
IDC III 05 02 58 48.4–16 17.55S 178.75W 550–153 4.4,3.6
¶17193261
IDC Error ellipse: s-maj=117.8km s-min=78.1km az=106.0.
IDC III 05 03 25 50.7–55 15.53S 178.65W 0 4.2,4.0b
¶17193263
IDC Error ellipse: s-maj=1014.0km s-min=158.5km az=76.0.
IDC III 05 15 53 51.8–3.1 21.44S 177.90W 0 4.1,3.7
¶17193291
IDC Error ellipse: s-maj=255.6km s-min=27.8km az=158.0.
IDC III 06 00 28 22.1–8.1 18.25S 176.49W 0 4.1,3.8
¶17193317
IDC Error ellipse: s-maj=354.4km s-min=37.2km az=143.0.
IDC III 06 04 50 14.1–3.5 20.73S 178.43W 557–24 3.8,3.0
¶17193322
IDC Error ellipse: s-maj=137.5km s-min=17.1km az=146.0.
IDC III 06 17 13 03.9–3.6 13.37S 174.82E 0 4.1,4.0b
¶17193365
IDC Error ellipse: s-maj=141.3km s-min=27.9km az=1.0.
IDC III 06 23 53 16.1–6.8 19.30S 176.23W 0 4.3,4.0
¶17193387
IDC Error ellipse: s-maj=306.8km s-min=106.5km az=153.0.
ISC III 07 05 39 15.9–.76 14.7S–.20 178.8W–.10 350 3.4b 11 7-144
ISCJB III 07 05 39 14.9–.65 14.7S–.20 178.9W–.10 350 3.4b ¶17193397
IDC III 07 05 39 16.7–2.6 14.73S 178.77W 359–28 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.3km s-min=13.7km az=157.7.
IDC Error ellipse: s-maj=42.0km s-min=14.5km az=150.0.
IDC III 07 09 54 50.5–54 17.48S 179.31W 0 3.9,3.7
¶17193405
IDC Error ellipse: s-maj=979.4km s-min=149.2km az=78.0.
IDC III 07 11 55 47.4–52 18.20S 177.95W 0 4.1,3.9
¶17193411
IDC Error ellipse: s-maj=951.6km s-min=152.1km az=80.0.
ISC III 07 17 39 58.8–1.1 17.9S–.30 178.5W–.20 579 3.5b 10 8-148
IDC III 07 17 39 57.0–2.1 17.76S 178.63W 545–27 4.2,3.5 ¶17193426
ISCJB III 07 17 39 57.2–1.1 18.0S–.30 178.5W–.20 579 3.7b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 08 17 41 12.1–.95 21.1S–.20 178.2W–.20 450 3.8b 26 35-172
IDC III 08 17 41 12.0–3.8 21.11S 178.17W 447–34 4.2,3.5 ¶17193480
ISCJB III 08 17 41 11.3–2.2 21.1S–.30 178.2W–.30 450 3.8b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC III 08 20 11 48.1–24 18.05S 178.16W 612–222 4.2,3.3
¶17193490
IDC Error ellipse: s-maj=199.7km s-min=95.9km az=88.0.
IDC III 08 20 55 28.7–2.7 15.90S 176.08E 0 3.9,3.7
¶17193495
IDC Error ellipse: s-maj=150.8km s-min=26.6km az=142.0.
ISC III 08 21 11 23.5–1.4 16.1S–.40 176.2E–.30 35 3.9s,3.7b 10 17-147
IDC III 08 21 11 17.4–1.6 15.98S 176.25E 0 4.1,3.9 ¶16298674
ISCJB III 08 21 11 21.0–1.4 16.1S–.40 176.2E–.30 33 3.9s,3.8b
GCMT III 08 21 11 28.0–.40 16.53S 176.72E 22–1 4.8W,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=81.4km s-min=23.8km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=70.4km s-min=20.8km az=148.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c20; s71,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.29±.14 $M_{\theta\theta}$-0.56±.11; $M_{\phi\phi}$0.85±.11; $M_{r\theta}$0.58±.17; $M_{\theta\phi}$2.07±.08; $M_{\phi r}$-0.12±.17; Best double couple: NP1:ϕ_s260.00000°,δ83.00000° ,λ-15.00000°. NP2:ϕ_s352.00000°,δ75.00000°,λ-172.00000°. Principal axes: T 2.3550,Plg5.0000°,Azm306.0000°; N -0.1590,Plg73.0000°,Azm54.0000° ; P -2.1960,Plg16.0000°,Azm215.0000° $M_0$2.27500×10^{16}
IDC III 09 10 11 08.4–2.4 18.21S 177.91W 559–30 4.0,3.2
¶17193539
IDC Error ellipse: s-maj=113.0km s-min=19.5km az=155.0.
ISC III 09 12 10 34.9–.91 15.5S–.30 177.7W–.20 386 3.5b 11 6-144
ISCJB III 09 12 10 34.1–.76 15.5S–.30 177.8W–.10 386 3.5b ¶17193552
IDC III 09 12 10 35.7–2.5 15.48S 177.72W 391–33 4.0,3.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=43.6km s-min=10.1km az=162.5.
IDC Error ellipse: s-maj=84.1km s-min=13.3km az=151.0.
IDC III 09 20 56 30.2–14 17.64S 178.80W 673–197 4.2,3.4
¶17193580

IDC Error ellipse: s-maj=79.6km s-min=66.9km az=160.0.
IDC III 10 01 50 22.0–1.7 15.94S 178.99W 0 3.9,3.7
¶17193595

IDC Error ellipse: s-maj=139.6km s-min=22.8km az=151.0.
ISC III 10 03 23 19.3–.77 21.5S–.20 179.1W–.10 602 3.8b 19 10-151
IDC III 10 03 23 14.1–1.9 21.45S 178.92W 543–21 4.2,3.5 **¶17193598**
ISCJB III 10 03 23 18.1–.72 21.6S–.20 179.1W–.10 602 3.7b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC III 10 12 20 41.1–54 15.58S 177.47W 0 4.2,4.0
¶17193624

IDC Error ellipse: s-maj=1000.0km s-min=165.8km az=76.0.
IDC III 10 21 41 25.1–58 19.25S 179.12W 0 4.3,4.1
¶17193660

IDC Error ellipse: s-maj=1046.0km s-min=152.9km az=81.0.
ISC III 11 04 17 47.1–1.1 17.8S–.40 178.5W–.20 579 4.2b 19 8-148
ISCJB III 11 04 17 46.6–.95 17.7S–.40 178.6W–.20 579 4.2b **¶17193677**
IDC III 11 04 17 47.4–1.5 17.88S 178.42W 582–17 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.1km s-min=9.1km az=156.2.
IDC Error ellipse: s-maj=42.4km s-min=10.3km az=154.0.
ISC III 12 00 25 08.3–1.1 17.8S–.30 178.5W–.20 579 4.3b 18 8-158
ISCJB III 12 00 25 07.2–1.1 17.8S–.30 178.6W–.20 579 4.3b **¶17194184**
IDC III 12 00 25 07.4–1.9 17.74S 178.60W 560–24 4.7,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.2km s-min=14.3km az=154.4.
IDC Error ellipse: s-maj=37.7km s-min=13.9km az=148.0.
ISC III 12 08 38 37.3–.33 20.42S–.06 176.14W–.07 211 4.8b 407 6-172
IDC III 12 08 38 32.1–2.4 20.34S 176.01W 165–21 5.0,4.6 **¶16310164**
ISCJB III 12 08 38 36.3–.12 20.37S–.03 176.21W–.04 211 4.8b,4.6
BJI III 12 08 38 38.1 20.30S 176.20W 215 5.2b,4.9b
NEIC III 12 08 38 39.0–.96 20.32S 176.21W 225–9 4.9b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=8.9km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.0km az=31.7.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.6km az=129.0.
IDC III 12 08 56 21.8–1.8 16.33S 178.23W 48–10 4.6,4.5
¶17194342

IDC Error ellipse: s-maj=118.7km s-min=19.7km az=148.0.
IDC III 13 06 48 38.0–6.3 20.57S 177.59W 0 3.9,3.6
¶17194773

IDC Error ellipse: s-maj=286.6km s-min=41.6km az=146.0.
IDC III 13 17 19 10.1–49 19.03S 176.63W 0 4.1,3.9
¶17194926

IDC Error ellipse: s-maj=914.3km s-min=161.8km az=81.0.
IDC III 13 23 39 20.6–62 15.40S 179.77W 0 4.5,4.3
¶17195017

IDC Error ellipse: s-maj=1129.0km s-min=155.8km az=75.0.
IDC III 14 00 59 34.0–29 14.43S 178.09W 0 4.5,4.4
¶17195029

IDC Error ellipse: s-maj=520.1km s-min=150.7km az=67.0.
ISC III 14 01 29 49.0–1.5 21.1S–.20 179.3W–.30 35 7 8-146
IDC III 14 01 29 44.1–1.7 21.06S 179.31W 0 5.6L,4.0 **¶17195037**
ISC Event type ke.
IDC Error ellipse: s-maj=45.6km s-min=44.8km az=138.0.
ISC III 14 02 11 11.2–.40 17.77S–.09 178.57W–.06 579 4.5b 164 3-175
IDC III 14 02 11 09.8–1.2 17.78S 178.55W 558–13 4.8,4.0 **¶16401057**
ISCJB III 14 02 11 10.6–.31 17.83S–.08 178.65W–.05 579 4.4b,4.0
NEIC III 14 02 11 10.9–.59 17.78S 178.61W 571–6 4.6b,4.0
BJI III 14 02 11 10.0 17.49S 178.00W 591 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=9.7km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=5.8km az=161.4.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.3km az=161.0.
IDC III 14 19 16 44.2–14 18.07S 177.06W 640–166 3.9,3.1
¶17195241

IDC Error ellipse: s-maj=137.5km s-min=73.7km az=136.0.
IDC III 14 22 53 06.0–7.5 15.44S 176.35W 0 4.1,3.8
¶17195277

IDC Error ellipse: s-maj=330.7km s-min=36.7km az=140.0.
IDC III 15 00 03 58.1–47 16.03S 178.16W 0 4.4,4.2
¶17195954

IDC Error ellipse: s-maj=860.7km s-min=153.0km az=77.0.
ISC III 15 15 09 19.7–.97 21.7S–.20 178.7W–.20 536 3.4b 11 10-151
IDC III 15 15 09 16.2–2.3 21.56S 178.58W 494–27 4.0,3.4 **¶17196169**
ISCJB III 15 15 09 19.3–.84 21.6S–.20 178.8W–.20 536 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 19 29 24.9–1.2 17.5S–.30 179.0W–.20 539 3.9b 16 8-147
ISCJB III 15 19 29 24.2–.99 17.4S–.30 179.1W–.20 539 3.9b **¶17196227**
IDC III 15 19 29 26.1–3.1 17.49S 179.04W 552–37 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.2km s-min=12.7km az=149.9.
IDC Error ellipse: s-maj=43.9km s-min=11.5km az=151.0.
ISC III 16 00 10 09.7–.31 21.32S–.05 176.86W–.06 267 4.9b 392 6-177
IDC III 16 00 10 06.4–2.3 21.11S 176.83W 235–21 4.8,4.3 **¶16461829**
BJI III 16 00 10 06.2 21.34S 176.29W 269 4.9b,4.6b
MOS III 16 00 10 06.6–2.4 20.75S 177.25W 220 5.1b,4.6b
ISCJB III 16 00 10 08.5–.20 21.20S–.03 176.96W–.05 267 4.8b,4.6b
NEIC III 16 00 10 10.6–1.0 21.20S 176.90W 277–9 5.0b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=9.9km az=122.0.
MOS Error ellipse: s-maj=10.4km s-min=9.4km az=48.9.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.4km az=13.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=108.0.
ISC III 16 03 03 46.1–.66 20.1S–.10 177.6W–.10 450 3.6b 16 8-173
IDC III 16 03 03 45.4–2.0 20.15S 177.54W 439–23 4.3,3.7 **¶17196326**
ISCJB III 16 03 03 45.3–.58 20.2S–.10 177.6W–.10 450 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 14 01 52.5–.35 18.97S–.07 177.61W–.07 570 4.5b 225 4-174
ISCJB III 16 14 01 52.1–.20 18.88S–.05 177.65W–.04 570 4.5b **¶16461841**
BJI III 16 14 01 53.9 19.31S 177.52W 622 5.0b,4.6b
NEIC III 16 14 01 56.5–.53 18.89S 177.69W 618–6 4.6b,4.6b
IDC III 16 14 01 56.4–1.1 18.87S 177.68W 616–13 4.8,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=141.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=4.9km az=150.0.
IDC Error ellipse: s-maj=12.0km s-min=8.4km az=156.0.
IDC III 16 22 57 50.7–7.1 20.70S 179.16W 0 4.4,4.2b
¶17196562

IDC Error ellipse: s-maj=314.8km s-min=62.0km az=148.0.
IDC III 17 02 00 38.8–4.5 16.41S 177.04W 0 4.8,4.6
¶17196601

IDC Error ellipse: s-maj=170.5km s-min=74.7km az=144.0.
ISC III 17 06 28 51.8–1.2 21.0S–.20 178.1W–.30 495 3.8b 9 9-151
IDC III 17 06 28 54.7–2.3 21.08S 178.14W 528–27 4.3,3.6 **¶17196640**
ISC Event type ke.
IDC Error ellipse: s-maj=40.2km s-min=20.0km az=133.0.
ISC III 17 07 58 44.4–.89 20.5S–.20 178.5W–.20 587 4.3b 18 18-150
IDC III 17 07 58 38.6–5.6 20.38S 178.27W 522–58 4.6,3.8 **¶17196651**
ISCJB III 17 07 58 42.8–1.1 20.6S–.10 178.4W–.20 587 4.2b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 22 15 23.5–9.0 18.21S 176.05W 0 4.1,3.8
¶17196830

IDC Error ellipse: s-maj=398.6km s-min=38.8km az=142.0.
IDC III 18 00 53 08.2–5.4 17.32S 177.35W 0 4.1,3.8
¶17196902

IDC Error ellipse: s-maj=258.5km s-min=29.2km az=144.0.
IDC III 18 04 33 04.6–7.5 19.14S 177.58W 0 3.8,3.5
¶17196933

IDC Error ellipse: s-maj=324.2km s-min=39.3km az=144.0.
ISC III 18 04 37 58.1–.76 16.1S–.20 176.9W–.10 350 3.5b 12 5-125
ISCJB III 18 04 37 57.0–.64 16.1S–.20 177.0W–.10 350 3.6b **¶17196934**
IDC III 18 04 37 58.9–1.6 16.17S 176.73W 361–18 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.6km s-min=9.9km az=152.3.
IDC Error ellipse: s-maj=32.1km s-min=12.2km az=142.0.
IDC III 18 09 21 39.5–58 21.01S 177.01W 0 4.3,4.1
¶17196982

IDC Error ellipse: s-maj=1068.0km s-min=161.6km az=84.0.
ISC III 18 22 13 58.3–1.2 20.2S–.30 177.8W–.20 500 3.6b 26 9-151
ISCJB III 18 22 13 58.4–1.5 20.1S–.30 177.9W–.20 500 3.6b **¶17197089**
IDC III 18 22 13 59.1–2.5 20.28S 177.86W 509–24 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.3km s-min=10.1km az=148.6.
IDC Error ellipse: s-maj=39.8km s-min=17.1km az=147.0.
IDC III 19 08 59 19.7–3.1 21.78S 179.79W 0 4.4,4.3
¶17197166

IDC Error ellipse: s-maj=65.9km s-min=52.1km az=107.0.
IDC III 19 12 51 45.7–2.4 17.71S 178.48W 448–35 4.1,3.3
¶17197235

IDC Error ellipse: s-maj=34.3km s-min=21.8km az=135.0.
ISC III 19 14 21 23.7–.59 17.7S–.10 178.9W–.10 500 4.0b 27 8-150
ISCJB III 19 14 21 23.5–.56 17.5S–.10 179.0W–.10 500 4.0b **¶17197254**
IDC III 19 14 21 25.0–1.6 17.63S 178.82W 513–18 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=9.5km az=150.2.
IDC Error ellipse: s-maj=20.0km s-min=10.9km az=142.0.
IDC III 19 21 43 30.1–64 19.27S 176.92W 0 3.9,3.7
¶17197337

IDC Error ellipse: s-maj=1181.0km s-min=179.4km az=82.0.
ISC III 20 11 16 33.5–.96 17.9S–.20 178.2W–.20 500 3.9b 13 15-148
ISCJB III 20 11 16 32.2–1.0 17.9S–.20 178.1W–.20 500 3.8b **¶17197443**
IDC III 20 11 16 33.5–4.6 17.92S 178.21W 499–52 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.0km s-min=18.3km az=39.2.
IDC Error ellipse: s-maj=30.6km s-min=23.5km az=177.0.
ISC III 20 17 57 49.9–.57 17.9S–.10 178.42W–.09 579 4.4b 79 3-148
IDC III 20 17 57 48.6–1.4 17.86S 178.49W 559–18 4.7,4.1 **¶16341355**
ISCJB III 20 17 57 49.5–.36 17.9S–.10 178.60W–.08 579 4.4b,4.1
NEIC III 20 17 57 50.8–.67 17.88S 178.57W 583–7 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=11.0km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=5.7km az=154.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=6.7km az=154.0.
IDC III 20 22 35 46.4–2.2 15.67S 176.50W 389–64 4.0,3.5
¶17197569

IDC Error ellipse: s-maj=372.1km s-min=23.6km az=153.0.
IDC III 22 02 39 05.1–53 17.53S 177.20W 0 4.2,4.0
¶17197900

IDC Error ellipse: s-maj=987.0km s-min=171.4km az=79.0.
IDC III 22 08 15 56.4–7.9 15.84S 176.15W 0 3.9,3.6
¶17197960

IDC Error ellipse: s-maj=351.6km s-min=37.6km az=140.0.
IDC III 22 15 29 38.8–1.7 18.70S 177.74W 608–25 4.3,3.4
¶17198030

IDC Error ellipse: s-maj=26.1km s-min=16.1km az=150.0.
ISC III 23 09 32 19.6–1.1 18.5S–.30 178.1W–.20 557 3.9b 17 8-175
IDC III 23 09 32 09.3–2.3 18.44S 177.94W 441–24 4.3,3.8 **¶17198161**
ISCJB III 23 09 32 18.4–1.1 18.5S–.30 178.2W–.20 557 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 23 11 58 10.3–7.6 20.25S 179.04W 0 3.9,3.6
¶17198189

IDC Error ellipse: s-maj=329.1km s-min=40.2km az=146.0.
ISC III 23 14 14 40.2–.42 21.01S–.04 178.55W–.05 583–4 5.0b 1082 5-176
ISCJB III 23 14 14 36.6–.63 20.91S–.03 178.64W–.03 545–8 5.0b **¶600018278**
BJI III 23 14 14 39.4 20.84S 178.41W 588 5.2b,5.1b
MOS III 23 14 14 39.6–.77 20.82S 178.72W 580 5.0b,5.1b
GCMT III 23 14 14 40.1–.50 20.74S 178.63W 576–3 5.3W,5.1b
NEIC III 23 14 14 40.1–.46 20.91S 178.69W 579–5 5.1b,5.1b
IDC III 23 14 14 41.2–.65 20.89S 178.67W 586–7 5.3,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=157.8.
MOS Error ellipse: s-maj=9.3km s-min=7.8km az=54.5.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s60,c84;Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.04 $M_{\theta\theta}$0.55±.07; $M_{\phi\phi}$0.16±.07; $M_{r\theta}$-0.67±.07; $M_{\theta\phi}$0.53±.07; $M_{\phi r}$-0.33±.07; Best double couple: NP1:ϕ_{ϕ}62.00000°,δ66.00000°,λ-83.00000°. NP2:ϕ_{ϕ}225.00000°,δ25.00000°,λ-106.00000°. Principal axes: T 1.2070,Plg21.0000°,Azm147.0000°; N -0.1950,Plg6.0000°,Azm239.0000°; P -1.0120,Plg68.0000°,Azm345.0000° $M_0$1.10900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=148.0.
IDC Error ellipse: s-maj=9.9km s-min=7.3km az=147.0.
ISC III 24 02 33 31.1–1.2 17.9S–.40 178.4W–.20 579 4.2b 13 34-148
ISCJB III 24 02 33 30.4–1.2 17.9S–.40 178.4W–.20 579 4.0b **¶17198275**
IDC III 24 02 33 35.8–2.8 17.99S 178.51W 632–33 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=57.9km s-min=17.0km az=153.8.
IDC Error ellipse: s-maj=48.6km s-min=14.9km az=154.0.
ISC III 24 06 53 25.2–1.3 19.3S–.40 178.0W–.30 550 3.5b 14 8-149
IDC III 24 06 53 25.0–1.9 19.35S 178.06W 542–20 4.0,3.3 **¶17198300**
ISCJB III 24 06 53 24.6–1.3 19.3S–.40 178.1W–.30 550 3.4b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 15 05 12.0–1.2 17.7S–.30 178.6W–.20 539 3.8b 11 33-87
IDC III 24 15 05 18.7–5.6 17.74S 178.77W 618–64 4.2,3.4 **¶17198379**
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=25.5km az=137.0.
IDC III 25 09 36 16.1–15 17.33S 178.52W 474–163 3.8,3.3
¶17198477

IDC Error ellipse: s-maj=137.1km s-min=52.3km az=137.0.
ISC III 25 17 06 49.5–2.3 19.8S–.50 177.4W–.50 500 3.5b 11 45-150
IDC III 25 17 06 49.7–15 19.75S 177.44W 498–142 3.9,3.3 **¶17198531**
ISC Event type ke.
IDC Error ellipse: s-maj=143.1km s-min=28.6km az=123.0.
ISC III 26 01 15 55.7–.35 17.93S–.08 178.46W–.06 579 4.4b 284 3-175
BJI III 26 01 15 54.3 17.89S 178.35W 578 4.8b,4.6b **¶16361361**
IDC III 26 01 15 55.1–1.4 17.94S 178.54W 565–15 4.8,4.0
ISCJB III 26 01 15 55.5–.22 17.86S–.06 178.68W–.04 579 4.5b,4.0
NEIC III 26 01 15 56.5–.50 17.89S 178.64W 581–5 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=9.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.0km az=151.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=4.1km az=153.0.
ISC III 26 11 09 23.7–.48 18.5S–.10 178.14W–.09 557 4.4b 78 4-175
IDC III 26 11 09 13.4–.65 18.35S 178.10W 434–6 4.5,3.9 **¶16362931**
NEIC III 26 11 09 18.7–.78 18.14S 178.35W 487–8 4.5b,3.9
BJI III 26 11 09 18.6 18.36S 178.80W 480 4.8b,4.5b
ISCJB III 26 11 09 22.7–.39 18.6S–.10 178.37W–.08 557 4.3b,4.5b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 11 10 38.8–.45 18.35S–.04 178.06W–.04 465–4 4.6b 524 4-175
IDC III 26 11 10 37.8–.98 18.37S 178.14W 450–10 5.0,4.3 **¶16361187**
ISCJB III 26 11 10 38.0–.62 18.35S–.04 178.19W–.04 462–6 4.6b,4.3
NEIC III 26 11 10 40.3–.11 18.30S 178.20W 476 4.6b,4.3

MOS III 26 11 10 40.4–.95 18.28S 178.23W 485 4.7b,4.3
BJI III 26 11 10 40.0 18.30S 178.20W 476 4.7b,4.6b
GCMT III 26 11 10 40.3–.40 18.28S 178.13W 486–2 5.4W,4.6b
ISC Event type ke.
IDC Error ellipse: s-maj=8.8km s-min=7.1km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.0km az=154.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=146.0.
MOS Error ellipse: s-maj=8.9km s-min=8.8km az=48.8.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s68,c109;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.19±.03 $M_{\theta\theta}$-0.86±.06; $M_{\phi\phi}$0.67±.05; $M_{r\theta}$-0.57±.06; $M_{\theta\phi}$-0.81±.05; $M_{\phi r}$-0.64±.05; Best double couple: NP1:ϕ_s204.00000°,δ90.00000°,λ36.00000°. NP2:ϕ_s114.00000°,δ54.00000°,λ180.00000°. Principal axes: T 1.1970,Plg25.0000°,Azm75.0000°; N 0.3700,Plg54.0000°,Azm205.0000° ; P -1.5660,Plg24.0000°,Azm333.0000° $M_0$1.38100×10^{17}

IDC III 26 16 15 51.5–7.6 17.92S 176.99W 0 4.3,4.0
¶17198656

IDC Error ellipse: s-maj=325.9km s-min=61.4km az=142.0.

IDC III 26 18 26 56.0–59 17.23S 176.66W 0 4.4,4.2
¶17198670

IDC Error ellipse: s-maj=1103.0km s-min=172.0km az=79.0.

ISC III 26 22 49 43.3–.45 15.92S–.04 179.23W–.04 22–3 5.9s,5.7b 1150 3-177
IDC III 26 22 49 39.1–.40 15.85S 179.37W 0 5.8,5.8s **¶16459605**
NEIC III 26 22 49 40.8–.12 15.85S 179.41W 6 6.7,6.0W
GCMT III 26 22 49 41.5–.10 15.79S 179.26W 12–0 6.0W,6.0W
BJI III 26 22 49 42.0 15.26S 179.17W 13 6.0b,5.9s
NEIC III 26 22 49 42.0–.00 15.79S 179.29W 15 6.0b,5.9s
ISCJB III 26 22 49 43.6–.09 15.91S–.03 179.38W–.02 33 5.9s,5.6b
MOS III 26 22 49 44.4–1.3 15.75S 179.49W 33 5.8b,5.8s
ISC Event type fe.
IDC Error ellipse: s-maj=13.9km s-min=11.2km az=141.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=138.0. Felt [VI] at Lambasa, [V] at Suva and [IV] at Savusavu. Also felt at Nambouwalu, Nausori and Seangangga. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s55 Moment tensor: Scale 10^{18}Nm; M_{rr}0.16 $M_{\theta\theta}$-1.08 $M_{\phi\phi}$0.92 $M_{r\theta}$0.11 $M_{\theta\phi}$0.54 $M_{\phi r}$0.17 Best double couple: NP1: ϕ_s60.00000°,δ84.00000°,λ10.00000°. NP2:ϕ_s329.00000°,δ80.00000°,λ174.00000°. Principal axes: T 1.0900,Plg11.0000°,Azm284.0000°; N 0.1300,Plg78.0000°,Azm91.0000° ; P -1.2200,Plg3.0000°,Azm194.0000° $M_0$1.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s60.00000°,δ85.00000°,λ-3.00000°. NP2: ϕ_s150.00000°,δ87.00000°,λ-175.00000°. Principal axes: T Plg1.0000°,Azm285.0000° ; N Plg0.0000°,Azm0.0000°; P Plg6.0000°,Azm15.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c282; s130,c495;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.12±.01 $M_{\theta\theta}$-1.25±.01; $M_{\phi\phi}$1.14±.01; $M_{r\theta}$-0.20±.02; $M_{\theta\phi}$0.78±.01; $M_{\phi r}$0.01±.02; Best double couple: NP1:ϕ_s61.00000°,δ87.00000°,λ-6.00000°. NP2:ϕ_s152.00000° ,δ84.00000°,λ-177.00000°. Principal axes: T 1.3710,Plg2.0000°,Azm107.0000° ; N 0.1390,Plg83.0000°,Azm213.0000°; P -1.5030,Plg7.0000°,Azm16.0000° $M_0$1.43700×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ80.00000° ,λ27.00000°. NP2:ϕ_s155.00000°,δ64.00000°,λ169.00000°. Principal axes: T 1.3600,Plg25.0000°,Azm115.0000°; N -0.1000,Plg61.0000°,Azm268.0000° ; P -1.2600,Plg11.0000°,Azm19.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=150.2.
MOS Error ellipse: s-maj=7.9km s-min=6.4km az=62.8.

ISC III 27 00 26 20.4–1.2 17.4S–.30 178.7W–.20 547 3.4b 14 15-149
ISCJB III 27 00 26 19.7–1.3 17.4S–.40 178.6W–.30 547 3.4b **¶17198703**
IDC III 27 00 26 20.2–5.5 17.35S 178.58W 542–59 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=56.5km s-min=15.9km az=148.9.
IDC Error ellipse: s-maj=52.6km s-min=25.4km az=143.0.

IDC III 27 05 24 18.6–7.9 18.00S 176.30W 0 4.3,4.0b
¶17198734

IDC Error ellipse: s-maj=354.1km s-min=36.6km az=142.0.

IDC III 27 15 21 48.9–12 16.90S 177.87W 411–110 4.1,3.5
¶17198806

IDC Error ellipse: s-maj=117.7km s-min=38.8km az=130.0.

IDC III 27 18 51 34.4–11 16.89S 178.95W 479–129 3.7,3.2
¶17198830

IDC Error ellipse: s-maj=120.4km s-min=44.2km az=155.0.

IDC III 27 21 33 31.7–8.0 15.36S 178.28W 0 3.9,3.6
¶17198854

IDC Error ellipse: s-maj=357.5km s-min=37.6km az=141.0.

IDC III 28 04 31 55.8–2.3 20.04S 178.48W 577–34 4.0,3.2
¶17198903

IDC Error ellipse: s-maj=26.0km s-min=21.6km az=124.0.

IDC III 28 05 03 12.8–13 17.70S 178.19W 567–123 4.0,3.3
¶17198907

IDC Error ellipse: s-maj=156.2km s-min=44.5km az=131.0.

ISC III 28 06 09 09.4–.54 15.0S–.10 177.7W–.10 372 4.2b 38 6-178
IDC III 28 06 09 06.6–2.1 14.89S 177.69W 341–22 4.5,4.0 **¶16475470**
NEIC III 28 06 09 07.4–1.3 14.95S 177.62W 353–13 4.2b,4.0
ISCJB III 28 06 09 07.8–.40 15.02S–.10 177.56W–.07 372 4.2b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC III 28 08 47 23.8–2.7 17.06S 177.05W 0 4.2,4.0
GCMT III 28 08 47 28.0–.30 17.49S 176.59W 13–2 4.8W,4.0 **¶16399148**

IDC Error ellipse: s-maj=144.5km s-min=25.6km az=144.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c15; s77,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.23±.09 $M_{\theta\theta}$-1.67±.08; $M_{\phi\phi}$1.90±.09; $M_{r\theta}$0.07±.20; $M_{\theta\phi}$0.54±.08; $M_{\phi r}$1.12±.29; Best double couple: NP1:ϕ_s322.00000°,δ78.00000° ,λ160.00000°. NP2:ϕ_s56.00000°,δ71.00000°,λ13.00000°. Principal axes: T 2.4480,Plg23.0000°,Azm278.0000°; N -0.6870,Plg67.0000°,Azm111.0000° ; P -1.7580,Plg5.0000°,Azm10.0000° $M_0$2.10300×10^{16}

IDC III 28 11 01 34.3–2.7 20.76S 177.56W 480–31 4.0,3.4
¶17198937

IDC Error ellipse: s-maj=31.0km s-min=19.4km az=136.0.

IDC III 28 12 50 10.5–4.2 16.52S 176.61W 0 4.8,4.6
¶17198948

IDC Error ellipse: s-maj=161.4km s-min=68.0km az=143.0.

IDC III 28 15 42 31.6–54 18.30S 177.11W 0 3.8,3.6
¶17198967

IDC Error ellipse: s-maj=993.2km s-min=162.3km az=80.0.

IDC III 28 17 02 57.7–71 19.47S 178.98W 659–241 3.5,2.6
¶17198975

IDC Error ellipse: s-maj=990.7km s-min=127.1km az=77.0.

ISC III 29 06 48 14.8–.44 17.7S–.10 178.48W–.08 547 4.3b 205 3-175
IDC III 29 06 48 13.5–1.8 17.71S 178.54W 526–20 4.5,3.9 **¶16392135**
BJI III 29 06 48 15.8 17.50S 178.70W 555 4.7b,4.4b
NEIC III 29 06 48 17.4–.67 17.31S 178.83W 559–6 4.3b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=10.1km az=143.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=6.5km az=151.0.

IDC III 29 07 57 05.3–1.7 16.44S 178.28W 0 4.3,4.0
¶17199049

IDC Error ellipse: s-maj=104.4km s-min=25.2km az=148.0.

ISC III 29 08 11 25.8–1.0 17.4S–.40 178.8W–.20 539 3.6b 14 8-147
ISCJB III 29 08 11 25.0–.91 17.3S–.40 178.9W–.20 539 3.8b **¶17199051**
IDC III 29 08 11 25.2–1.7 17.25S 178.94W 526–20 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.1km s-min=11.7km az=152.0.
IDC Error ellipse: s-maj=53.8km s-min=11.9km az=151.0.

ISC III 29 10 48 27.6–.37 20.61S–.07 178.49W–.06 587 4.7b 107 4-173
ISCJB III 29 10 48 26.7–.24 20.56S–.05 178.53W–.04 587 4.6b **¶16399154**
NEIC III 29 10 48 28.6–.63 20.43S 178.56W 598–7 4.9b
IDC III 29 10 48 31.3–1.9 20.39S 178.70W 629–23 4.9,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=154.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.0km az=156.0.
IDC Error ellipse: s-maj=16.7km s-min=8.9km az=160.0.

IDC III 30 09 41 25.8–4.7 16.01S 176.00W 0 4.5,4.3
¶17199190

IDC Error ellipse: s-maj=172.6km s-min=93.1km az=154.0.

ISC III 30 12 41 37.7–.60 18.2S–.10 178.0W–.10 590 3.8b 28 7-148
ISCJB III 30 12 41 36.5–.51 18.3S–.10 178.1W–.10 590 3.8b **¶17199199**
IDC III 30 12 41 37.6–1.8 18.24S 177.94W 590–22 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=10.8km az=40.9.
IDC Error ellipse: s-maj=17.8km s-min=12.0km az=129.0.

ISC III 30 22 39 31.9–1.1 20.9S–.30 178.5W–.20 579 3.7b 19 14-172
IDC III 30 22 39 35.8–4.0 20.86S 178.72W 619–44 4.2,3.5 **¶17199235**
ISC Event type ke.
IDC Error ellipse: s-maj=43.8km s-min=22.4km az=149.0.

ISC III 31 00 11 58.9–.42 16.55S–.04 177.39W–.04 19–1 6.3s,5.7b 1674 5-177
IDC III 31 00 11 54.8–.41 16.47S 177.44W 0 6.2,6.2s **¶16459655**
BJI III 31 00 11 55.1 16.70S 177.50W 10 6.3s,6.1
NEIC III 31 00 11 57.0–.00 16.15S 177.53W 15 6.3s,6.1
ISCJB III 31 00 11 57.8–.10 16.64S–.03 177.53W–.02 22 6.3s,5.6b
GCMT III 31 00 11 58.3–.00 16.54S 177.34W 15–0 6.4W,5.6b
NEIC III 31 00 11 58.3–1.1 16.54S 177.52W 16–6 6.4W,6.4W
MOS III 31 00 12 00.3–1.7 16.38S 177.67W 33 6.2s,5.8b
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=11.8km az=129.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13 $M_{\theta\theta}$-2.81 $M_{\phi\phi}$2.68 $M_{r\theta}$-0.18 $M_{\theta\phi}$0.50 $M_{\phi r}$-1.00 Best double couple: NP1:ϕ_s232.00000° ,δ78.00000°,λ15.00000°. NP2:ϕ_s139.00000°,δ75.00000°,λ168.00000°. Principal axes: T 3.0700,Plg18.0000°,Azm95.0000°; N -0.2100,Plg70.0000°,Azm269.0000° ; P -2.8600,Plg1.0000°,Azm4.0000° $M_0$3.00000×10^{18}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.5km az=154.6.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s141,c334; s145,c601;Duration: 3s7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.03±.02 $M_{\theta\theta}$-4.22±.02; $M_{\phi\phi}$4.20±.02; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$0.55±.04; Best double couple: NP1:ϕ_s49.00000°,δ85.00000°,λ6.00000°. NP2:ϕ_s319.00000°,δ84.00000° ,λ175.00000°. Principal axes: T 4.3130,Plg7.0000°,Azm274.0000°; N -0.0450,Plg83.0000° ,Azm89.0000°; P -4.2620,Plg1.0000°,Azm184.0000° $M_0$4.28800×10^{18}
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=142.0. Moment Tensor Solution. $M_0$9.40000×10^{18} Moment Tensor Solution. s50 Moment tensor: Scale 10^{18}Nm; M_{rr}1.28 $M_{\theta\theta}$-4.75 $M_{\phi\phi}$3.47 $M_{r\theta}$-0.11 $M_{\theta\phi}$1.40 $M_{\phi r}$-0.24 Best double couple: NP1:ϕ_s144.00000° ,δ85.00000°,λ176.00000°. NP2:ϕ_s235.00000°,δ86.00000°,λ5.00000°. Principal axes: T 3.7200,Plg6.0000°,Azm99.0000°; N 1.2600,Plg84.0000°,Azm273.0000° ; P -4.9800,Plg1.0000°,Azm9.0000° $M_0$4.50000×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=6.4km az=58.9.

IDC III 31 01 24 44.0–1.8 16.11S 177.82W 0 4.1,3.9
¶17199243

IDC Error ellipse: s-maj=119.8km s-min=27.8km az=146.0.

ISC III 31 02 59 22.2–.45 16.44S–.09 177.59W–.07 35 5.0s,4.9b 130 4-177
IDC III 31 02 59 16.4–.75 16.45S 177.42W 0 4.8,4.8s **¶16403910**
GCMT III 31 02 59 18.3–.20 16.39S 177.42W 13–1 5.4W,4.8s
NEIC III 31 02 59 18.3–.22 16.31S 177.53W 10 5.0s,5.0b
ISCJB III 31 02 59 20.4–.23 16.35S–.06 177.63W–.05 33 5.0s,4.8b
BJI III 31 02 59 21.0 16.00S 177.80W 15 5.3b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=33.6km s-min=16.0km az=145.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c80; s130,c214; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.05±.03 $M_{\theta\theta}$-1.36±.03; $M_{\phi\phi}$1.41±.03; $M_{r\theta}$0.00±.07; $M_{\theta\phi}$0.56±.03; $M_{\phi r}$0.79±.10; Best double couple: NP1:ϕ_s325.00000°,δ80.00000° ,λ159.00000°. NP2:ϕ_s59.00000°,δ69.00000°,λ11.00000°. Principal axes: T 1.8380,Plg22.0000°,Azm280.0000°; N -0.3490,Plg66.0000°,Azm120.0000° ; P -1.4900,Plg7.0000°,Azm13.0000° $M_0$1.66400×10^{17}
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.0km az=142.7.

IDC III 31 05 37 55.7–4.4 16.44S 177.23W 0 4.5,4.3
¶17199257

IDC Error ellipse: s-maj=186.3km s-min=50.0km az=139.0.

ISC III 31 07 44 22.3–.52 16.7S–.10 177.47W–.09 35 4.8b,4.8s 99 4-176
IDC III 31 07 44 15.3–.91 16.91S 177.21W 0 4.7,4.7s **¶16399901**
ISCJB III 31 07 44 20.9–.33 16.62S–.08 177.61W–.06 33 4.8s,4.8b
BJI III 31 07 44 20.5 16.73S 177.32W 36 5.5b,5.2s
NEIC III 31 07 44 22.5–.35 16.57S 177.58W 35 4.8b,5.2s
GCMT III 31 07 44 22.5–.30 16.55S 177.31W 13–1 5.3W,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=42.3km s-min=14.4km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=5.6km az=153.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=7.2km az=148.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s100,c145; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.04 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.49±.03; $M_{r\theta}$-0.05±.06; $M_{\theta\phi}$0.72±.03; $M_{\phi r}$0.73±.14; Best double couple: NP1:ϕ_s339.00000°,δ82.00000° ,λ143.00000°. NP2:ϕ_s75.00000°,δ53.00000°,λ10.00000°. Principal axes: T 1.2390,Plg31.0000°,Azm290.0000°; N -0.1260,Plg52.0000°,Azm149.0000° ; P -1.1140,Plg19.0000°,Azm32.0000° $M_0$1.17600×10^{17}

IDC III 31 10 20 19.8–29 20.48S 178.79W 686–277 3.9,3.0
¶17199284

IDC Error ellipse: s-maj=394.1km s-min=63.8km az=133.0.

ISC III 31 16 31 14.6–.74 15.6S–.20 178.4W–.20 35 4.1b,4.0s 27 4-145
IDC III 31 16 31 09.0–.87 15.48S 178.36W 0 4.3,4.0 **¶16413014**
ISCJB III 31 16 31 12.8–.50 15.5S–.10 178.5W–.10 33 4.2b,4.0s
NEIC III 31 16 31 14.4–.43 15.51S 178.37W 35 5.0b,4.0s
GCMT III 31 16 31 14.4–.30 16.25S 177.46W 12–2 4.9W,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=45.9km s-min=19.3km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=24.5km s-min=7.3km az=142.9.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=8.6km az=142.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c27; s80,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.10±.10 $M_{\theta\theta}$-2.46±.11; $M_{\phi\phi}$2.36±.10; $M_{r\theta}$-0.60±.29; $M_{\theta\phi}$0.97±.10; $M_{\phi r}$0.88±.29; Best double couple: NP1:ϕ_s326.00000°,δ89.00000° ,λ158.00000°. NP2:ϕ_s56.00000°,δ68.00000°,λ1.00000°. Principal axes: T 2.7690,Plg16.0000°,Azm279.0000°; N 0.0830,Plg68.0000°,Azm143.0000° ; P -2.8520,Plg15.0000°,Azm13.0000° $M_0$2.81000×10^{16}

IDC III 31 16 43 55.6–8.7 16.28S 177.48W 0 4.0,3.7
¶17199318

IDC Error ellipse: s-maj=411.5km s-min=33.6km az=142.0.

IDC III 31 17 08 58.4–2.4 16.31S 177.83W 0 4.2,4.0
GCMT III 31 17 09 04.0–.40 16.15S 177.53W 19–2 4.9W,4.0 **¶16413015**

IDC Error ellipse: s-maj=135.8km s-min=23.7km az=144.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c23; s72,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.41±.17 $M_{\theta\theta}$-1.96±.14; $M_{\phi\phi}$1.55±.12; $M_{r\theta}$-0.32±.27; $M_{\theta\phi}$2.20±.12; $M_{\phi r}$1.23±.30; Best double couple: NP1:ϕ_s339.00000°,δ85.00000° ,λ155.00000°. NP2:ϕ_s72.00000°,δ65.00000°,λ6.00000°. Principal axes: T 2.9890,Plg21.0000°,Azm293.0000°; N 0.2210,Plg64.0000°,Azm148.0000° ; P -3.2150,Plg13.0000°,Azm28.0000° $M_0$3.10200×10^{16}

IDC III 31 19 11 52.4–2.0 15.62S 178.23W 0 4.1,3.7
¶17199339

IDC Error ellipse: s-maj=123.0km s-min=31.8km az=150.0.

ISC IV 01 01 48 17.9–.72 16.6S–.20 177.7W–.10 35 4.1b,3.8s 36 4-177
IDC IV 01 01 48 12.2–.95 16.51S 177.52W 0 4.3,4.1 **¶16509602**
ISCJB IV 01 01 48 15.9–.70 16.5S–.20 177.7W–.10 33 4.1b,3.9s
NEIC IV 01 01 48 15.3–7.4 16.47S 177.65W 21–51 4.5b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=40.5km s-min=20.0km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=24.1km s-min=9.2km az=152.0.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=21.0km az=128.0.

ISC IV 01 05 55 20.8–.52 20.8S–.10 179.14W–.08 619 4.5b 109 4-147
ISCJB IV 01 05 55 20.0–.28 20.82S–.08 179.29W–.06 619 4.5b **¶16485460**
IDC IV 01 05 55 19.8–1.5 20.86S 179.17W 602–16 4.7,4.0
NEIC IV 01 05 55 22.2–.58 20.83S 179.28W 632–7 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=4.8km az=151.1.

IDC Error ellipse: s-maj=28.8km s-min=10.1km az=158.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.4km az=151.0.
IDC IV 01 11 44 15.9–4.9 21.81S 179.22W 0 4.4,4.2
¶17199413

IDC Error ellipse: s-maj=181.1km s-min=52.1km az=141.0.
IDC IV 01 19 22 51.6–25 20.80S 176.07W 266–146 4.2,3.6
¶17199457

IDC Error ellipse: s-maj=272.7km s-min=36.9km az=52.0.
ISC IV 01 22 09 36.8–1.3 17.7S–.20 178.2W–.30 500 3.9b 13 21-148
ISCJB IV 01 22 09 36.0–1.6 17.7S–.20 178.3W–.30 500 4.0b **¶17199462**
IDC IV 01 22 09 36.6–6.4 17.74S 178.24W 495–68 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.1km s-min=21.4km az=7.6.
IDC Error ellipse: s-maj=38.3km s-min=28.8km az=47.0.
IDC IV 02 00 53 33.7–1.5 21.10S 176.53W 0 4.4L,4.0
¶17199472

IDC Error ellipse: s-maj=58.6km s-min=27.8km az=145.0.
IDC IV 02 10 00 14.3–50 15.97S 176.93W 0 4.2,4.0
¶17199513

IDC Error ellipse: s-maj=930.3km s-min=176.8km az=77.0.
IDC IV 02 11 50 25.1–2.8 17.69S 178.13W 0 4.3,3.9
¶17199521

IDC Error ellipse: s-maj=274.8km s-min=27.2km az=157.0.
ISC IV 03 10 00 17.4–.81 20.9S–.20 178.6W–.10 579 3.7b 19 10-150
ISCJB IV 03 10 00 16.7–.68 20.9S–.10 178.7W–.10 579 3.7b **¶17199640**
IDC IV 03 10 00 18.1–2.1 21.01S 178.65W 588–25 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.4km s-min=10.2km az=142.5.
IDC Error ellipse: s-maj=26.3km s-min=14.7km az=150.0.
ISC IV 03 14 07 09.0–.20 17.61S–.03 178.53W–.03 547–1 6.1b 2878 3-176
MOS IV 03 14 07 06.9–.78 17.51S 178.58W 527 5.9b **¶16506172**
ISCJB IV 03 14 07 06.0–.43 17.63S–.02 178.59W–.02 520–5 6.0b
IDC IV 03 14 07 07.5–.59 17.56S 178.54W 525–5 6.2,5.4
GCMT IV 03 14 07 09.3–.10 17.65S 178.45W 562–0 6.4W,5.4
NEIC IV 03 14 07 09.0–.00 17.65S 178.58W 551 6.4W,5.4
BJI IV 03 14 07 09.3 17.50S 178.65W 550 6.1b,6.0b
NEIC IV 03 14 07 09.3–.07 17.64S 178.59W 552 6.4W,6.4W
ISC Event type se.
MOS Error ellipse: s-maj=7.4km s-min=5.9km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=158.0.
IDC Error ellipse: s-maj=7.9km s-min=7.0km az=2.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s140,c337; s122,c194; Duration: 3s9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.52±.02 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$-0.61±.03; $M_{r\theta}$-1.05±.03; $M_{\theta\phi}$-0.04±.03; $M_{\phi r}$-4.79±.02; Best double couple: NP1:ϕ_s192.00000° ,δ87.00000°,λ91.00000°. NP2:ϕ_s351.00000°,δ4.00000°,λ69.00000°. Principal axes: T 4.9000,Plg48.0000°,Azm104.0000°; N 0.0740,Plg1.0000°,Azm12.0000° ; P -4.9740,Plg42.0000°,Azm281.0000° $M_0$4.93700×10^{18}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{18}Nm; M_{rr}0.59 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-0.70 $M_{r\theta}$-1.03 $M_{\theta\phi}$0.11 $M_{\phi r}$-4.46 Best double couple: NP1:ϕ_s193.00000° ,δ86.00000°,λ93.00000°. NP2:ϕ_s330.00000°,δ5.00000°,λ48.00000°. Principal axes: T 4.6100,Plg48.0000°,Azm106.0000°; N 0.0200,Plg3.0000°,Azm12.0000° ; P -4.6300,Plg41.0000°,Azm279.0000° $M_0$4.60000×10^{18}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=141.0. Moment Tensor Solution. s86 Moment tensor: Scale 10^{18}Nm; M_{rr}0.24 $M_{\theta\theta}$0.43 $M_{\phi\phi}$-0.66 $M_{r\theta}$-1.04 $M_{\theta\phi}$0.69 $M_{\phi r}$-5.29 Best double couple: NP1:ϕ_s191.00000°,δ88.00000°,λ99.00000°. NP2:ϕ_s291.00000° ,δ9.00000°,λ10.00000°. Principal axes: T 5.4000,Plg46.0000°,Azm110.0000° ; N 0.1300,Plg9.0000°,Azm11.0000°; P -5.5300,Plg43.0000°,Azm273.0000° $M_0$5.50000×10^{18}
IDC IV 03 15 47 19.9–5.0 15.37S 176.66W 0 4.1,3.9
¶17199665

IDC Error ellipse: s-maj=172.1km s-min=99.6km az=154.0.
ISC IV 03 16 41 29.0–.65 17.7S–.10 178.5W–.10 547 3.8b 19 7-147
IDC IV 03 16 41 26.5–1.8 17.66S 178.52W 511–21 4.3,3.6 **¶17199671**
ISCJB IV 03 16 41 28.5–.69 17.7S–.10 178.6W–.10 547 3.9b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 19 40 36.8–56 16.86S 179.25W 0 4.0,3.8
¶17199695

IDC Error ellipse: s-maj=1022.0km s-min=151.2km az=77.0.
IDC IV 04 00 41 27.4–2.5 18.32S 177.62W 0 4.3,4.0
¶17199722

IDC Error ellipse: s-maj=232.3km s-min=27.1km az=156.0.
ISC IV 04 08 17 55.6–1.1 18.0S–.30 178.2W–.20 590 3.8b 18 7-148
ISCJB IV 04 08 17 55.0–1.1 17.9S–.30 178.3W–.20 590 3.7b **¶17199746**
IDC IV 04 08 17 55.6–2.0 17.96S 178.21W 586–23 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.0km s-min=12.0km az=148.9.
IDC Error ellipse: s-maj=46.3km s-min=14.5km az=144.0.
IDC IV 04 17 01 00.0–50 19.11S 178.74W 0 4.2,4.0
¶17199790

IDC Error ellipse: s-maj=920.4km s-min=155.2km az=81.0.
IDC IV 04 17 43 43.2–5.6 20.21S 176.36W 0 4.3,4.1
¶17199795

IDC Error ellipse: s-maj=246.2km s-min=90.3km az=158.0.
IDC IV 04 18 32 08.3–1.9 16.66S 178.25W 0 4.5,4.2
¶17199800

IDC Error ellipse: s-maj=150.9km s-min=23.1km az=149.0.
ISC IV 05 03 16 41.0–.72 17.4S–.10 178.5W–.20 547 3.7b 20 39-176
IDC IV 05 03 16 31.4–3.3 17.33S 178.34W 435–32 4.1,3.5 **¶17199839**
ISCJB IV 05 03 16 40.2–.56 17.4S–.10 178.6W–.20 547 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 04 10 07.3–.25 17.64S–.04 178.53W–.03 552–2 5.0b 1351 3-176
ISCJB IV 05 04 10 05.7–.44 17.66S–.03 178.57W–.02 544–5 5.0b **¶16408846**
MOS IV 05 04 10 07.6–.97 17.56S 178.60W 559 4.9b
NEIC IV 05 04 10 07.2–.08 17.66S 178.60W 552 5.8W,5.0b
GCMT IV 05 04 10 07.2–.20 17.68S 178.39W 568–1 5.7W,5.0b
IDC IV 05 04 10 08.0–.43 17.64S 178.56W 556–4 5.5,4.7
BJI IV 05 04 10 09.3 17.30S 178.90W 560 5.2b,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.8km az=159.0.
MOS Error ellipse: s-maj=8.2km s-min=7.0km az=52.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=145.0. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}0.31 $M_{\theta\theta}$1.63 $M_{\phi\phi}$-1.94 $M_{r\theta}$-0.90 $M_{\theta\phi}$1.21 $M_{\phi r}$-4.88 Best double couple: NP1:ϕ_s195.00000°,δ86.00000°,λ111.00000°. NP2:ϕ_s294.00000° ,δ21.00000°,λ10.00000°. Principal axes: T 4.8500,Plg45.0000°,Azm126.0000° ; N 0.9900,Plg21.0000°,Azm13.0000°; P -5.8400,Plg38.0000°,Azm266.0000° $M_0$5.40000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s103,c172; s54,c54; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57±.05 $M_{\theta\theta}$-0.22±.09; $M_{\phi\phi}$-0.35±.08; $M_{r\theta}$-0.52±.08; $M_{\theta\phi}$0.31±.07; $M_{\phi r}$-4.21±.07; Best double couple: NP1:ϕ_s186.00000°,δ87.00000° ,λ94.00000°. NP2:ϕ_s310.00000°,δ5.00000°,λ34.00000°. Principal axes: T 4.4240,Plg48.0000°,Azm101.0000°; N -0.2960,Plg4.0000°,Azm6.0000° ; P -4.1270,Plg42.0000°,Azm272.0000° $M_0$4.27600×10^{17}
IDC Error ellipse: s-maj=8.2km s-min=7.0km az=160.0.
ISC IV 05 04 57 26.7–.56 20.1S–.10 177.9W–.10 569 3.8b 27 8-173
IDC IV 05 04 57 25.3–2.0 20.09S 178.02W 548–23 4.3,3.6 **¶17199850**
ISCJB IV 05 04 57 26.0–.49 20.1S–.10 178.1W–.10 569 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 06 38 46.1–.73 18.3S–.20 177.8W–.10 650 3.9b 28 15-175
ISCJB IV 05 06 38 44.8–.66 18.3S–.20 177.9W–.10 650 3.8b **¶17199860**
IDC IV 05 06 38 46.2–2.2 18.29S 177.89W 649–28 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.9km s-min=11.4km az=143.3.
IDC Error ellipse: s-maj=24.9km s-min=12.4km az=152.0.
ISC IV 06 02 08 48.1–1.0 19.0S–.30 176.4W–.20 21 4.2b 9 35-149
IDC IV 06 02 08 45.0–2.6 18.93S 176.39W 0 4.2,4.0 **¶17199947**
ISCJB IV 06 02 08 46.7–1.1 19.0S–.30 176.4W–.20 21 4.1b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC IV 06 05 52 10.6–70 16.48S 178.28W 0 3.9,3.7
¶17199972

IDC Error ellipse: s-maj=1289.0km s-min=175.5km az=77.0.
ISC IV 06 18 45 30.6–1.5 20.9S–.50 178.6W–.30 579 3.6b 15 33-150
ISCJB IV 06 18 45 30.5–1.6 20.8S–.50 178.7W–.30 579 3.5b **¶17200037**
IDC IV 06 18 45 33.5–5.0 20.84S 178.67W 608–54 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=76.0km s-min=16.5km az=156.7.
IDC Error ellipse: s-maj=72.1km s-min=23.9km az=153.0.
IDC IV 07 01 08 19.3–2.9 14.58S 178.14W 334–34 3.9,3.6
¶17200067

IDC Error ellipse: s-maj=72.7km s-min=14.7km az=150.0.
ISC IV 07 15 54 25.6–.64 21.2S–.10 178.7W–.10 579 4.0b 46 10-151
IDC IV 07 15 54 21.5–1.7 21.11S 178.45W 534–17 4.6,3.9 **¶17200131**
ISCJB IV 07 15 54 24.7–.58 21.09S–.09 178.7W–.10 579 4.1b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 05 26 13.9–.79 16.7S–.20 178.4W–.20 35 4.3b 16 4-93
IDC IV 08 05 26 08.6–.87 16.68S 178.42W 0 4.4,4.2 **¶16512216**
ISCJB IV 08 05 26 11.9–.62 16.8S–.10 178.4W–.10 33 4.3b,4.2
NEIC IV 08 05 26 13.8–.49 16.74S 178.44W 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=43.8km s-min=17.7km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=23.7km s-min=11.8km az=143.8.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=9.5km az=143.0.
IDC IV 08 15 40 48.9–14 19.70S 179.55W 589–122 3.9,3.2
¶17200258

IDC Error ellipse: s-maj=186.7km s-min=41.2km az=134.0.
ISC IV 10 01 32 20.5–.67 20.4S–.10 178.5W–.10 587 3.6b 23 9-150
ISCJB IV 10 01 32 19.8–.58 20.4S–.10 178.6W–.10 587 3.6b **¶17200399**
IDC IV 10 01 32 24.5–2.4 20.50S 178.50W 638–31 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=10.7km az=144.4.
IDC Error ellipse: s-maj=24.1km s-min=11.7km az=154.0.
IDC IV 10 02 06 18.8–33 20.37S 177.54W 472–301 4.5,3.8
¶17200404

IDC Error ellipse: s-maj=212.9km s-min=100.6km az=80.0.
IDC IV 10 05 24 33.9–9.0 16.44S 176.38W 0 3.9,3.6
¶17200426

IDC Error ellipse: s-maj=403.4km s-min=35.6km az=141.0.
ISC IV 10 12 43 28.5–.78 21.8S–.10 179.2W–.10 602 3.7b 19 13-171
ISCJB IV 10 12 43 27.0–.75 21.85S–.10 179.1W–.10 602 3.6b **¶17200462**
IDC IV 10 12 43 28.6–4.0 21.42S 179.20W 600–46 4.1,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=12.4km az=22.6.
IDC Error ellipse: s-maj=26.8km s-min=23.6km az=138.0.
IDC IV 10 18 25 17.7–7.2 20.05S 176.02W 0 4.2,4.1
¶17200489

IDC Error ellipse: s-maj=131.3km s-min=17.7km az=86.0.
ISC IV 11 02 01 19.5–.35 17.76S–.05 178.39W–.05 538–3 5.0b 437 3-175
ISCJB IV 11 02 01 16.1–.58 17.80S–.03 178.50W–.04 504–7 4.9b **¶16706349**
IDC IV 11 02 01 18.8–.51 17.81S 178.47W 525–5 4.9,4.2
GCMT IV 11 02 01 19.3–.30 17.93S 178.42W 539–2 5.4W,4.2
BJI IV 11 02 01 19.0 17.67S 178.57W 529 4.8b,4.7b
NEIC IV 11 02 01 19.3–.17 17.80S 178.50W 533 5.2b,4.7b
MOS IV 11 02 01 20.8–1.6 17.69S 178.64W 544 4.6b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=32.0.
IDC Error ellipse: s-maj=10.0km s-min=8.4km az=127.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s67,c87;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.26±.04 $M_{\theta\theta}$0.94±.07; $M_{\phi\phi}$-1.20±.06; $M_{r\theta}$-0.47±.07; $M_{\theta\phi}$0.45±.05; $M_{\phi r}$-0.61±.06; Best double couple: NP1:ϕ_s210.00000°,δ82.00000°,λ145.00000°. NP2:ϕ_s306.00000°,δ56.00000°,λ9.00000°. Principal axes: T 1.3610,Plg30.0000°,Azm162.0000°; N 0.0860,Plg54.0000°,Azm19.0000° ; P -1.4520,Plg18.0000°,Azm263.0000° $M_0$1.40700×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=114.0.
MOS Error ellipse: s-maj=10.1km s-min=9.3km az=21.0.
IDC IV 11 05 29 39.7–9.1 20.24S 177.83W 455–99 3.9,3.4
¶17200527

IDC Error ellipse: s-maj=87.6km s-min=31.3km az=154.0.
ISC IV 11 05 34 17.7–.75 20.8S–.20 179.3W–.10 600 3.8b 21 10-150
ISCJB IV 11 05 34 16.6–.65 20.9S–.20 179.4W–.10 600 3.7b **¶17200528**
IDC IV 11 05 34 19.2–2.1 20.85S 179.32W 620–26 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.9km s-min=12.0km az=147.7.
IDC Error ellipse: s-maj=23.0km s-min=13.0km az=148.0.
ISC IV 11 10 59 20.0–1.2 20.7S–.20 178.6W–.30 587 3.8b 12 18-150
IDC IV 11 10 59 08.4–4.2 20.29S 178.40W 444–41 4.2,3.6 **¶17200595**
ISCJB IV 11 10 59 18.7–1.2 20.7S–.20 178.6W–.30 587 3.8b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 11 20 43 37.8–67 21.97S 176.65W 0 3.8s,3.8
¶17200683

IDC Error ellipse: s-maj=1233.0km s-min=163.9km az=86.0.
ISC IV 11 21 20 06.4–.62 18.6S–.10 177.8W–.10 557 3.7b 20 7-147
ISCJB IV 11 21 20 05.2–.56 18.6S–.10 177.8W–.10 557 3.9b **¶17200691**
IDC IV 11 21 20 09.2–1.2 18.55S 177.80W 596–16 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=13.0km az=151.3.
IDC Error ellipse: s-maj=15.5km s-min=10.3km az=149.0.
IDC IV 11 21 30 05.0–56 19.28S 177.58W 0 3.8,3.7
¶17200693

IDC Error ellipse: s-maj=1034.0km s-min=168.0km az=81.0.
ISC IV 12 17 54 22.7–1.2 17.1S–.50 178.6W–.30 500 3.9b 11 7-144
IDC IV 12 17 54 21.1–1.7 16.83S 178.80W 462–18 4.2,3.5 **¶17200794**
ISC Event type ke.
IDC Error ellipse: s-maj=64.0km s-min=16.1km az=149.0.
ISC IV 13 00 20 58.7–1.0 17.4S–.50 178.8W–.20 533 3.4b 15 8-147
ISCJB IV 13 00 20 58.3–.92 17.4S–.50 178.8W–.20 533 3.6b **¶17200834**
IDC IV 13 00 20 58.4–1.5 17.04S 179.03W 516–21 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=69.8km s-min=9.1km az=155.8.
IDC Error ellipse: s-maj=72.7km s-min=11.4km az=152.0.
ISC IV 13 12 51 24.2–.36 17.71S–.07 176.37E–.06 35 4.8b,4.5s 122 2-173
IDC IV 13 12 51 18.3–.62 17.69S 176.29E 0 4.6,4.5s **¶16424722**
ISCJB IV 13 12 51 22.7–.24 17.68S–.05 176.30E–.04 33 4.7b,4.5s
NEIC IV 13 12 51 24.2–.26 17.66S 176.28E 35 4.9b,4.5s
GCMT IV 13 12 51 24.2–.10 17.43S 176.24E 12 5.2W,4.5s
BJI IV 13 12 51 25.2 17.11S 176.19E 32 5.2b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=14.4km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.3km az=150.8.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.1km az=136.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c118; s115,c216; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.09±.01 $M_{\theta\theta}$-0.66±.01; $M_{\phi\phi}$0.74±.01; $M_{r\theta}$0.17±.03; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$0.34±.03; Best double couple: NP1:ϕ_s209.00000°,δ88.00000° ,λ-25.00000°. NP2:ϕ_s300.00000°,δ65.00000°,λ-178.00000°. Principal axes: T 0.9420,Plg16.0000°,Azm257.0000°; N -0.0860,Plg65.0000°,Azm24.0000° ; P -0.8570,Plg19.0000°,Azm161.0000° $M_0$0.89900×10^{17}
ISC IV 13 18 27 12.0–1.0 17.6S–.30 178.7W–.20 547 3.8b 14 8-147
ISCJB IV 13 18 27 11.1–.94 17.5S–.30 178.8W–.20 547 3.8b **¶17200928**
IDC IV 13 18 27 11.5–1.9 17.54S 178.79W 539–25 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=49.8km s-min=12.0km az=152.8.
IDC Error ellipse: s-maj=53.9km s-min=13.3km az=151.0.
IDC IV 14 05 24 46.3–7.1 19.02S 176.45W 0 4.2,3.9
¶17200989

IDC Error ellipse: s-maj=299.9km s-min=112.1km az=153.0.

ISC IV 14 15 56 43.3–.79 17.3S–.20 178.7W–.20 547 3.7b 20 8-147
IDC IV 14 15 56 41.9–1.8 17.28S 178.71W 530–22 4.2,3.5 **¶17201039**
ISCJB IV 14 15 56 42.3–.62 17.3S–.20 178.7W–.10 547 3.7b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 14 19 35 23.3–1.4 17.3S–.50 178.9W–.30 539 3.5b 7 39-93
ISCJB IV 14 19 35 22.5–1.2 17.3S–.50 178.9W–.30 539 3.5b **¶17201054**
IDC IV 14 19 35 32.2–19 17.73S 178.86W 658–286 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=75.2km s-min=18.2km az=151.7.
IDC Error ellipse: s-maj=161.4km s-min=42.6km az=0.0.
ISC IV 14 22 37 51.8–.61 15.4S–.10 177.8W–.10 35 4.4b 22 7-178
IDC IV 14 22 37 37.3–2.8 17.65S 176.43W 0 4.7,4.4 **¶602546121**
ISCJB IV 14 22 37 50.0–.50 15.39S–.09 177.82W–.09 33 4.7b,4.4
NEIC IV 14 22 37 50.9–3.5 15.39S 177.83W 28–25 4.3b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=153.4km s-min=41.4km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=12.1km az=27.7.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=12.2km az=193.0.
ISC IV 15 00 42 47.5–.79 16.8S–.10 177.8W–.10 35 4.4b 15 12-93
IDC IV 15 00 42 42.3–1.9 16.86S 177.80W 0 4.3,4.0 **¶16577821**
ISCJB IV 15 00 42 45.5–.68 16.9S–.10 177.8W–.10 33 4.4b,4.0
NEIC IV 15 00 42 47.5–.58 16.86S 177.82W 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=113.6km s-min=23.5km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=13.4km az=36.1.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=11.5km az=126.0.
IDC IV 15 11 01 05.5–3.6 19.54S 178.60W 635–53 4.0,3.2
¶17201122
IDC Error ellipse: s-maj=59.4km s-min=24.3km az=167.0.
IDC IV 15 15 32 48.0–65 18.55S 178.56W 0 3.9,3.8
¶17201141
IDC Error ellipse: s-maj=1183.0km s-min=174.4km az=80.0.
ISC IV 15 16 04 10.6–.92 17.2S–.20 178.9W–.20 533 3.5b 11 15-144
ISCJB IV 15 16 04 09.8–.80 17.2S–.20 178.8W–.20 533 3.8b **¶17201144**
IDC IV 15 16 04 16.7–3.0 17.44S 178.83W 609–39 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.9km s-min=16.8km az=141.4.
IDC Error ellipse: s-maj=33.2km s-min=15.9km az=160.0.
IDC IV 15 16 55 13.0–52 16.75S 179.54W 0 4.1,3.9
¶17201150
IDC Error ellipse: s-maj=945.2km s-min=153.8km az=77.0.
IDC IV 15 17 36 04.8–7.1 19.12S 176.67W 0 4.4,4.1
¶17201155
IDC Error ellipse: s-maj=301.5km s-min=112.4km az=153.0.
ISC IV 15 20 26 04.4–1.6 17.3S–.50 178.8W–.30 539 3.7b 8 15-147
ISCJB IV 15 20 26 03.3–1.6 17.4S–.60 178.9W–.40 539 3.6b **¶17201169**
IDC IV 15 20 26 08.2–6.7 17.51S 178.95W 586–81 4.1,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=85.7km s-min=20.1km az=150.5.
IDC Error ellipse: s-maj=80.1km s-min=36.6km az=153.0.
ISC IV 16 00 37 42.8–1.1 21.4S–.20 179.2W–.20 650 4.2b 18 13-151
IDC IV 16 00 37 41.2–2.4 21.46S 179.10W 638–28 4.5,3.5 **¶17201181**
ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=19.0km az=19.0.
IDC IV 16 01 03 36.1–18 18.87S 178.63W 542–143 4.1,3.5
¶17201182
IDC Error ellipse: s-maj=358.9km s-min=56.9km az=141.0.
IDC IV 16 12 00 43.1–7.5 17.79S 176.25W 0 4.4s,4.4
¶17201218
IDC Error ellipse: s-maj=327.6km s-min=36.8km az=142.0.
ISC IV 16 12 17 10.1–.97 17.3S–.30 178.8W–.20 539 3.6b 15 8-144
ISCJB IV 16 12 17 09.2–.94 17.3S–.30 178.9W–.20 539 3.7b **¶17201219**
IDC IV 16 12 17 11.0–2.0 17.44S 178.73W 556–24 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.5km s-min=12.8km az=156.9.
IDC Error ellipse: s-maj=48.5km s-min=12.7km az=153.0.
IDC IV 17 04 20 08.7–1.9 17.52S 178.22W 0 4.2,3.9
¶17201280
IDC Error ellipse: s-maj=157.2km s-min=32.5km az=156.0.
IDC IV 17 12 46 27.9–4.2 15.20S 177.96W 0 3.8,3.5
¶17201318
IDC Error ellipse: s-maj=187.9km s-min=31.4km az=137.0.
ISC IV 17 13 02 07.9–.27 20.32S–.04 178.66W–.04 610–2 4.9b 1103 4-173
ISCJB IV 17 13 02 05.8–.52 20.30S–.04 178.70W–.02 592–6 4.9b **¶16505415**
MOS IV 17 13 02 06.9–.88 20.22S 178.71W 605 5.0b
GCMT IV 17 13 02 08.1–.30 20.11S 178.85W 618–2 5.4W
IDC IV 17 13 02 08.5–.45 20.26S 178.74W 608–4 5.3,4.4
NEIC IV 17 13 02 08.1–.27 20.24S 178.71W 608–3 4.9b,4.4
BJI IV 17 13 02 08.4 20.00S 178.52W 622 5.0b,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.1km az=168.2.
MOS Error ellipse: s-maj=8.1km s-min=7.6km az=67.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s.
Moment Tensor Solution. s73,c104;Duration: 1s2 Moment tensor: Scale 10^{17}Nm;
Mrr-0.34±.03 Mθθ0.19±.05; Mϕϕ0.14±.05; Mrθ-0.99±.05; Mθϕ-0.07±.04; Mϕr-0.98±.05;
Best double couple: NP1:ϕ_s46.00000°,δ86.00000°,λ-91.00000°. NP2:ϕ_s238.00000°
,δ5.00000°,λ-78.00000°. Principal axes: T 1.2930,Plg41.0000°,Azm137.0000°
; N 0.2390,Plg1.0000°,Azm46.0000°; P -1.5320,Plg49.0000°,Azm315.0000°
$M_0$1.41200×10^{17}
IDC Error ellipse: s-maj=9.0km s-min=6.3km az=162.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=154.0.
ISC IV 17 13 09 11.8–.80 20.3S–.20 178.5W–.10 587 3.7b 24 14-153
ISCJB IV 17 13 09 11.1–.65 20.3S–.10 178.7W–.10 587 3.6b **¶17201320**
IDC IV 17 13 09 15.1–3.2 20.43S 178.67W 628–41 4.2,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=12.4km az=148.6.
IDC Error ellipse: s-maj=28.2km s-min=19.4km az=173.0.
ISC IV 17 13 42 04.7–.96 20.2S–.20 178.4W–.20 602 3.1b 8 18-89
IDC IV 17 13 41 54.2–10 19.92S 178.25W 473–125 3.7,3.1 **¶17201325**
ISCJB IV 17 13 42 03.3–.87 20.2S–.20 178.5W–.20 602 3.1b,3.1
ISC Event type ke.
ISCJB Event type ke.
IDC IV 17 20 47 39.3–4.1 16.23S 177.68W 0 3.9,3.8b
¶17201357
IDC Error ellipse: s-maj=177.7km s-min=45.0km az=138.0.
IDC IV 17 21 34 02.5–4.7 15.84S 176.14W 0 4.5,4.3
¶17201360
IDC Error ellipse: s-maj=158.3km s-min=92.3km az=153.0.
ISC IV 18 02 08 59.1–.76 19.7S–.20 177.6W–.10 500 4.1b 18 8-149
ISCJB IV 18 02 08 58.0–.70 19.8S–.20 177.6W–.10 500 4.0b **¶17201380**
IDC IV 18 02 09 00.6–2.1 19.66S 177.64W 520–23 4.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.9km s-min=9.0km az=146.1.
IDC Error ellipse: s-maj=25.7km s-min=12.8km az=152.0.
ISC IV 18 02 14 35.1–2.0 20.1S–.60 179.0W–.30 665 3.5b 12 33-152
IDC IV 18 02 14 27.1–6.8 20.02S 178.78W 564–75 3.9,3.4 **¶17201381**
ISCJB IV 18 02 14 33.3–1.9 20.3S–.70 179.0W–.40 665 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 18 10 08 15.7–.66 17.6S–.20 178.7W–.10 547 3.7b 28 8-176
ISCJB IV 18 10 08 15.1–.60 17.6S–.20 178.79W–.08 547 3.8b **¶17201405**
IDC IV 18 10 08 15.2–1.6 17.65S 178.75W 538–17 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=9.5km az=165.4.
IDC Error ellipse: s-maj=22.1km s-min=12.0km az=160.0.
ISC IV 18 12 12 11.2–.59 20.8S–.10 179.1W–.10 645 4.1b 27 8-150
IDC IV 18 12 12 07.1–1.1 20.63S 178.94W 593–13 4.6,3.8 **¶17201411**
ISCJB IV 18 12 12 09.5–.50 20.90S–.10 179.0W–.10 645 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.

ISC IV 18 17 57 08.5–1.0 17.3S–.40 178.6W–.20 547 4.1b 15 7-147
ISCJB IV 18 17 57 08.2–.94 17.2S–.40 178.7W–.20 547 3.9b **¶17201436**
IDC IV 18 17 57 08.6–1.5 17.60S 178.44W 559–20 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=62.6km s-min=10.0km az=156.3.
IDC Error ellipse: s-maj=75.3km s-min=13.8km az=149.0.
ISC IV 18 22 51 41.7–.84 15.9S–.20 177.8W–.20 400 3.6b 10 6-146
ISCJB IV 18 22 51 40.4–.66 15.9S–.20 177.9W–.10 400 3.7b **¶17201452**
IDC IV 18 22 51 43.1–2.4 15.96S 177.69W 421–28 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.2km s-min=13.6km az=149.5.
IDC Error ellipse: s-maj=32.4km s-min=14.3km az=144.0.
ISC IV 19 15 30 08.9–.40 20.04S–.04 177.63W–.04 399–3 5.2b 1024 5-173
MOS IV 19 15 30 05.7–.97 19.86S 177.68W 370 5.1b **¶16505441**
ISCJB IV 19 15 30 06.3–.62 19.97S–.02 177.69W–.02 379–6 5.2b
BJI IV 19 15 30 08.6 19.72S 177.37W 406 5.2b,5.1b
IDC IV 19 15 30 08.8–1.2 20.00S 177.72W 392–12 5.3,4.8
NEIC IV 19 15 30 09.6–.10 20.00S 177.69W 406 5.0b,4.8
GCMT IV 19 15 30 09.6–.40 20.08S 177.76W 423–2 5.3W,4.8
ISC Event type se.
MOS Error ellipse: s-maj=8.4km s-min=6.8km az=75.2.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=144.4.
IDC Error ellipse: s-maj=11.2km s-min=8.6km az=140.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.9km az=144.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s.
Moment Tensor Solution. s64,c110;Duration: 1s1 Moment tensor: Scale 10^{17}Nm;
Mrr-0.46±.03 Mθθ-0.32±.05; Mϕϕ0.78±.05; Mrθ-0.97±.05; Mθϕ0.22±.04; Mϕr-0.44±.05;
Best double couple: NP1:ϕ_s51.00000°,δ79.00000°,λ-60.00000°. NP2:ϕ_s161.00000°
,δ32.00000°,λ-158.00000°. Principal axes: T 1.1560,Plg27.0000°,Azm118.0000°
; N 0.2170,Plg29.0000°,Azm225.0000°; P -1.3730,Plg48.0000°,Azm353.0000°
$M_0$1.26400×10^{17}
ISC IV 19 22 02 35.6–3.3 17.5S–.80 178.7W–.60 539 4.1b 6 33-147
ISCJB IV 19 22 02 35.0–3.4 17.4S–.80 178.8W–.70 539 4.0b **¶17201548**
IDC IV 19 22 02 36.7–13 17.40S 178.77W 544–135 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=133.6km s-min=27.8km az=140.6.
IDC Error ellipse: s-maj=106.6km s-min=56.0km az=124.0.
ISC IV 20 01 46 34.5–.64 19.2S–.10 177.6W–.20 570 3.5b 19 19-174
IDC IV 20 01 46 27.9–6.0 19.10S 177.48W 492–66 4.0,3.4 **¶17201571**
ISCJB IV 20 01 46 33.3–.65 19.3S–.10 177.7W–.20 570 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 03 45 48.6–2.0 21.1S–.30 176.1W–.30 300 3.7b 8 16-151
IDC IV 20 03 45 50.8–14 21.13S 176.25W 315–128 4.4,3.7 **¶17201583**
ISC Event type ke.
IDC Error ellipse: s-maj=75.0km s-min=33.6km az=50.0.
IDC IV 20 09 35 19.3–1.8 16.28S 177.51W 0 4.2,4.1b
¶16485027
IDC Error ellipse: s-maj=53.3km s-min=30.4km az=125.0.
IDC IV 20 17 14 43.3–15 17.39S 178.57W 601–142 4.3,3.4
¶17201630
IDC Error ellipse: s-maj=138.4km s-min=70.6km az=111.0.
IDC IV 21 06 58 29.1–10 18.99S 177.80W 607–142 3.8,3.3
¶17201683
IDC Error ellipse: s-maj=77.3km s-min=32.1km az=7.0.
ISC IV 21 16 45 17.0–.77 18.2S–.20 178.5W–.20 579 3.8b 30 20-150
ISCJB IV 21 16 45 16.0–.67 18.2S–.20 178.5W–.20 579 3.7b **¶17201727**
IDC IV 21 16 45 17.2–3.6 18.19S 178.40W 582–44 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=15.4km az=43.2.
IDC Error ellipse: s-maj=24.7km s-min=18.0km az=159.0.
IDC IV 21 20 50 13.7–58 17.24S 176.34W 0 4.0,3.8
¶17201743
IDC Error ellipse: s-maj=1086.0km s-min=178.7km az=79.0.
IDC IV 21 23 45 53.1–19 17.43S 179.20W 563–187 4.2,3.4
¶17201759
IDC Error ellipse: s-maj=150.1km s-min=87.1km az=109.0.
IDC IV 22 10 38 51.3–1.8 14.85S 176.34W 0 4.2,3.9b
¶17201805
IDC Error ellipse: s-maj=116.6km s-min=24.2km az=154.0.
ISC IV 22 11 21 04.3–.65 14.9S–.10 176.09W–.08 10 4.1b,3.9s 17 4-146
ISCJB IV 22 11 21 02.9–.54 15.0S–.10 176.09W–.07 10 4.0b,3.9s **¶16485037**
IDC IV 22 11 21 03.2–1.1 14.89S 176.21W 0 4.2,3.9
NEIC IV 22 11 21 04.9–.56 14.84S 176.22W 10 4.5b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=7.9km az=161.1.
IDC Error ellipse: s-maj=74.5km s-min=18.8km az=154.0.
NEIC Event type se. Error ellipse: s-maj=19.8km s-min=12.6km az=149.0.
ISC IV 23 03 16 17.4–.56 17.6S–.10 179.0W–.10 539 4.1b 66 3-150
IDC IV 23 03 16 15.2–1.7 17.43S 179.00W 510–18 4.4,3.8 **¶16476060**
ISCJB IV 23 03 16 16.7–.44 17.52S–.10 179.05W–.09 539 4.2b,3.8
NEIC IV 23 03 16 17.4–1.4 17.54S 179.00W 537–12 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=11.5km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=7.3km az=143.6.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=7.1km az=139.0.
IDC IV 23 11 14 48.4–56 16.84S 177.80W 0 3.9,3.8
¶17201874
IDC Error ellipse: s-maj=1028.0km s-min=164.0km az=78.0.
IDC IV 23 20 02 40.8–6.2 17.39S 176.84W 0 4.2,3.9
¶17201903
IDC Error ellipse: s-maj=298.6km s-min=42.8km az=145.0.
ISC IV 23 21 09 11.0–.28 16.31S–.04 179.43W–.04 515–2 4.9b 1254 3-172
ISCJB IV 23 21 09 08.0–.56 16.40S–.03 179.53W–.02 484–6 4.9b **¶16452975**
GCMT IV 23 21 09 10.9–.30 16.22S 179.51W 526–1 5.4W
IDC IV 23 21 09 10.7–.41 16.40S 179.46W 507–4 5.4,4.5
NEIC IV 23 21 09 10.9–.12 16.39S 179.53W 509 4.9b,4.5
BJI IV 23 21 09 11.4 15.97S 179.29W 517 5.0b,4.9b
MOS IV 23 21 09 11.6–.97 16.28S 179.56W 522 4.9b,4.9b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=159.7.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s.
Moment Tensor Solution. s77,c122;Duration: 1s2 Moment tensor: Scale 10^{17}Nm;
Mrr-0.66±.03 Mθθ0.96±.05; Mϕϕ-0.29±.05; Mrθ-0.82±.05; Mθϕ0.25±.04; Mϕr-0.92±.04;
Best double couple: NP1:ϕ_s49.00000°,δ76.00000°,λ-114.00000°. NP2:ϕ_s289.00000°
,δ27.00000°,λ-32.00000°. Principal axes: T 1.5110,Plg27.0000°,Azm157.0000°
; N 0.0050,Plg23.0000°,Azm55.0000°; P -1.5150,Plg53.0000°,Azm290.0000°
$M_0$1.51300×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=6.4km az=156.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.7km az=144.0. Felt at Navua.
MOS Error ellipse: s-maj=7.6km s-min=7.2km az=60.0.
IDC IV 24 06 19 51.4–29 18.30S 178.17W 518–255 4.0,3.3
¶17201934
IDC Error ellipse: s-maj=253.5km s-min=86.9km az=120.0.
IDC IV 24 10 10 17.1–2.4 18.92S 178.03W 508–25 4.0,3.4
¶17201953
IDC Error ellipse: s-maj=94.5km s-min=14.1km az=151.0.
IDC IV 25 03 42 57.4–6.1 20.08S 178.55W 557–66 4.0,3.4
¶17202010
IDC Error ellipse: s-maj=98.3km s-min=23.8km az=153.0.
ISC IV 25 04 13 34.6–.33 17.95S–.05 177.88W–.04 613–3 4.7b 960 4-175
ISCJB IV 25 04 13 32.2–.53 17.99S–.03 177.95W–.02 595–7 4.8b **¶16456697**
BJI IV 25 04 13 32.6 17.86S 177.51W 613 4.8b,4.7b
MOS IV 25 04 13 33.0–1.3 17.87S 177.99W 599 4.8b,4.7b
NEIC IV 25 04 13 33.6–.10 17.94S 177.97W 602 4.7b,4.7b
IDC IV 25 04 13 34.0–.48 17.92S 177.94W 602–5 5.2,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.0km az=157.7.
MOS Error ellipse: s-maj=9.1km s-min=7.0km az=46.3.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=2.9km az=135.0.
IDC Error ellipse: s-maj=9.1km s-min=7.3km az=149.0.

IDC IV 25 07 01 08.6–10 17.62S 178.60W 688–107 4.2,3.2 ¶17202022
IDC Error ellipse: s-maj=123.6km s-min=62.7km az=125.0.
IDC IV 25 07 07 32.7–1.9 17.25S 178.33W 594–24 3.9,3.3 ¶17202024
IDC Error ellipse: s-maj=91.0km s-min=12.8km az=153.0.
IDC IV 25 08 42 03.3–2.3 16.74S 179.03W 485–34 4.0,3.4 ¶17202029
IDC Error ellipse: s-maj=83.1km s-min=15.1km az=150.0.
IDC IV 25 09 59 31.3–60 19.63S 179.91W 0 4.2,4.1 ¶17202036
IDC Error ellipse: s-maj=1078.0km s-min=143.2km az=81.0.
ISC IV 25 11 23 17.4–.96 20.3S–.30 177.6W–.20 500 3.7b 12 8-150
ISCJB IV 25 11 23 15.2–.75 20.2S–.20 177.5W–.20 500 3.5b **¶17202046**
IDC IV 25 11 23 18.4–6.7 20.11S 177.75W 507–71 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.2km s-min=10.8km az=142.0.
IDC Error ellipse: s-maj=68.9km s-min=30.9km az=154.0.
ISC IV 25 13 38 55.7–.71 15.80S–.06 173.17E–.06 29–4 5.2b,4.2s 562 5-171
IDC IV 25 13 38 51.4–.55 15.82S 173.15E 0 5.0,4.9 **¶16456803**
BJI IV 25 13 38 52.6 15.47S 173.07E 9 5.3b,5.2b
ISCJB IV 25 13 38 55.4–.15 15.81S–.04 173.01E–.03 33 5.2b,4.2s
MOS IV 25 13 38 56.1–.98 15.79S 173.01E 41 5.4b,4.2s
NEIC IV 25 13 38 57.8–.83 15.83S 173.02E 45–7 5.2b,4.2s
GCMT IV 25 13 38 57.8–.20 15.79S 173.09E 12 5.2W,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=13.3km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.4km az=157.3.
MOS Error ellipse: s-maj=8.5km s-min=7.9km az=144.6.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.5km az=164.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c104; s108,c195; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.57±.11 $M_{\theta\theta}$6.55±.10; $M_{\phi\phi}$0.02±.10; $M_{r\theta}$-2.41±.31; $M_{\theta\phi}$-1.07±.10; $M_{\phi r}$0.41±.37; Best double couple: NP1:ϕ_s99.00000°,δ55.00000° ,λ-90.00000°. NP2:ϕ_s279.00000°,δ35.00000°,λ-90.00000°. Principal axes: T 7.1560,Plg10.0000°,Azm189.0000°; N -0.1490,Plg0.0000°,Azm279.0000° ; P -7.0060,Plg80.0000°,Azm10.0000° $M_0$7.08100×10^{16}
IDC IV 25 22 47 07.2–6.0 18.28S 178.05W 0 3.9,3.7b ¶17202087
IDC Error ellipse: s-maj=307.0km s-min=40.3km az=147.0.
IDC IV 26 09 10 14.1–24 17.46S 177.30W 460–212 4.2,3.5 ¶17202119
IDC Error ellipse: s-maj=167.8km s-min=80.8km az=89.0.
IDC IV 26 12 10 17.8–22 20.77S 177.89W 524–200 4.1,3.3 ¶17202131
IDC Error ellipse: s-maj=153.0km s-min=56.9km az=92.0.
IDC IV 27 10 37 22.1–11 18.36S 178.08W 564–119 3.7,3.1 ¶17202228
IDC Error ellipse: s-maj=252.4km s-min=43.9km az=157.0.
IDC IV 27 11 05 13.1–50 18.55S 176.25W 0 4.0,3.8 ¶17202229
IDC Error ellipse: s-maj=936.7km s-min=163.4km az=81.0.
ISC IV 27 19 05 55.3–1.3 17.7S–.40 178.5W–.30 547 3.7b 19 15-147
IDC IV 27 19 06 00.9–4.5 17.80S 178.75W 615–59 4.2,3.6 **¶17202251**
ISC Event type ke.
IDC Error ellipse: s-maj=60.4km s-min=21.9km az=152.0.
ISC IV 27 23 35 05.7–.28 18.00S–.06 178.44W–.05 579 4.6b 577 3-175
MOS IV 27 23 35 04.9–1.2 17.86S 178.53W 570 4.6b **¶16505556**
ISCJB IV 27 23 35 05.2–.13 18.02S–.04 178.53W–.03 579 4.6b
IDC IV 27 23 35 05.8–1.4 18.02S 178.40W 580–15 4.8,4.1
NEIC IV 27 23 35 08.6–.63 18.05S 178.54W 612–7 4.6b,4.1
BJI IV 27 23 35 08.1 17.66S 178.54W 599 4.8b,4.7b
ISC Event type se.
MOS Error ellipse: s-maj=11.0km s-min=9.2km az=152.7.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=2.9km az=151.1.
IDC Error ellipse: s-maj=14.2km s-min=10.7km az=132.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.6km az=149.0.
IDC IV 28 12 56 53.1–4.2 17.68S 177.44W 0 4.1,3.9 ¶17202301
IDC Error ellipse: s-maj=182.2km s-min=32.9km az=139.0.
IDC IV 29 13 04 22.8–2.2 17.29S 178.81W 515–30 3.9,3.4 ¶17202385
IDC Error ellipse: s-maj=66.7km s-min=14.3km az=151.0.
IDC IV 29 15 21 35.3–55 19.46S 177.35W 0 3.7,3.5 ¶17202393
IDC Error ellipse: s-maj=1012.0km s-min=171.1km az=82.0.
IDC IV 29 15 55 54.9–13 21.37S 177.62W 430–104 4.1,3.3 ¶17202395
IDC Error ellipse: s-maj=131.6km s-min=35.5km az=53.0.
IDC IV 29 21 16 20.2–3.1 17.13S 177.73W 0 3.7,3.5 ¶17202418
IDC Error ellipse: s-maj=369.1km s-min=35.4km az=159.0.
IDC IV 30 14 32 48.8–4.6 21.12S 178.99W 542–54 3.8,3.1 ¶17202463
IDC Error ellipse: s-maj=34.6km s-min=24.9km az=168.0.
ISC IV 30 19 31 18.1–.57 18.0S–.10 178.0W–.10 590 3.9b 45 21-150
ISCJB IV 30 19 31 17.1–.47 18.05S–.10 178.0W–.10 590 3.9b **¶17202473**
IDC IV 30 19 31 21.2–1.8 18.07S 178.00W 624–22 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=11.9km az=25.1.
IDC Error ellipse: s-maj=16.1km s-min=10.3km az=143.0.
ISC IV 30 20 12 39.2–1.1 17.9S–.20 177.8W–.20 590 3.8b 13 39-148
ISCJB IV 30 20 12 38.0–1.2 17.9S–.20 177.8W–.30 590 3.7b **¶17202476**
IDC IV 30 20 12 40.2–6.2 17.92S 177.88W 600–68 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.5km s-min=21.2km az=27.7.
IDC Error ellipse: s-maj=37.8km s-min=23.8km az=86.0.
IDC IV 30 20 27 58.5–49 17.34S 178.69W 0 4.1,3.9 ¶17202477
IDC Error ellipse: s-maj=892.5km s-min=146.8km az=78.0.
IDC IV 30 23 14 21.9–1.9 15.56S 176.26W 311–39 3.8,3.4 ¶17202485
IDC Error ellipse: s-maj=151.0km s-min=17.1km az=149.0.
IDC V 01 01 03 35.1–3.4 21.05S 176.31W 0 3.8,3.5 ¶17202488
IDC Error ellipse: s-maj=206.5km s-min=43.2km az=152.0.
IDC V 01 07 34 59.2–53 16.72S 179.88W 0 3.9,3.7 ¶17202506
IDC Error ellipse: s-maj=962.4km s-min=154.6km az=77.0.
ISC V 01 11 56 16.6–1.0 17.2S–.20 178.8W–.20 539 3.5b 13 39-147
ISCJB V 01 11 56 15.2–1.0 17.3S–.20 178.8W–.20 539 3.6b **¶17202519**
IDC V 01 11 56 18.7–3.3 17.29S 178.81W 561–37 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.7km s-min=18.7km az=144.1.
IDC Error ellipse: s-maj=29.5km s-min=17.3km az=150.0.
ISC V 01 16 47 27.9–.90 19.3S–.20 176.1W–.20 50 4.3b 13 7-88
ISCJB V 01 16 47 26.1–.78 19.2S–.20 176.2W–.10 50 4.4b **¶16577942**
IDC V 01 16 47 27.5–4.6 19.33S 176.02W 55–28 4.3,4.2
NEIC V 01 16 47 28.3–3.3 19.27S 176.18W 49–38 4.4b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.1km s-min=8.3km az=139.1.
IDC Error ellipse: s-maj=121.3km s-min=19.6km az=140.0.
NEIC Event type se. Error ellipse: s-maj=50.4km s-min=20.6km az=164.0.
ISC V 01 17 18 30.8–.96 20.8S–.20 179.1W–.20 645 3.6b 16 14-150
IDC V 01 17 18 26.2–3.3 20.68S 179.02W 592–34 4.0,3.3 **¶17202539**
ISCJB V 01 17 18 29.0–.99 20.9S–.20 179.1W–.20 645 3.5b,3.3
ISC Event type ke.
ISCJB Event type ke.
IDC V 01 17 35 10.2–3.6 21.95S 177.93W 0 3.8,3.6 ¶17202542
IDC Error ellipse: s-maj=175.0km s-min=37.2km az=147.0.

IDC V 02 01 58 45.2–4.0 17.89S 176.57W 0 4.2,4.1 ¶17202572
IDC Error ellipse: s-maj=181.1km s-min=40.8km az=141.0.
IDC V 02 14 18 53.5–3.7 20.05S 177.66W 488–48 4.3,3.5 ¶17202614
IDC Error ellipse: s-maj=97.2km s-min=28.4km az=152.0.
ISC V 02 19 03 02.5–1.5 20.5S–.30 177.9W–.20 534 3.6b 14 9-143
ISCJB V 02 19 03 01.9–1.5 20.4S–.40 178.0W–.20 534 3.6b **¶17202631**
IDC V 02 19 03 01.6–2.1 20.68S 178.00W 511–23 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=55.0km s-min=9.5km az=147.4.
IDC Error ellipse: s-maj=49.4km s-min=13.0km az=150.0.
IDC V 03 11 37 19.6–3.9 19.63S 176.27W 0 3.8,3.5 ¶17202673
IDC Error ellipse: s-maj=262.1km s-min=78.8km az=163.0.
ISC V 04 06 02 00.4–.56 18.1S–.20 178.4W–.10 579 4.0b 50 8-175
ISCJB V 04 06 01 59.8–.53 18.0S–.10 178.5W–.10 579 3.9b **¶17202730**
IDC V 04 06 02 01.3–1.8 18.04S 178.43W 586–20 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=8.7km az=149.6.
IDC Error ellipse: s-maj=20.1km s-min=12.2km az=139.0.
ISC V 04 13 25 30.8–1.2 17.6S–.30 178.5W–.20 547 3.4b 15 39-147
ISCJB V 04 13 25 29.9–1.1 17.5S–.30 178.6W–.20 547 3.4b **¶17202758**
IDC V 04 13 25 29.6–6.2 17.60S 178.46W 533–68 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.2km s-min=15.1km az=146.7.
IDC Error ellipse: s-maj=40.1km s-min=22.5km az=139.0.
IDC V 04 13 53 06.7–2.1 18.12S 178.00W 506–31 4.1,3.3 ¶17202760
IDC Error ellipse: s-maj=28.6km s-min=25.2km az=44.0.
IDC V 04 13 54 37.5–2.4 17.19S 176.82W 0 4.3,4.1 ¶17202761
IDC Error ellipse: s-maj=171.4km s-min=30.8km az=152.0.
ISC V 04 16 13 27.8–.31 20.32S–.03 178.44W–.04 577–3 5.2b 1567 4-176
ISCJB V 04 16 13 25.8–.47 20.35S–.03 178.51W–.02 557–6 5.1b **¶16493787**
MOS V 04 16 13 26.1–.83 20.24S 178.54W 558 5.2b
BJI V 04 16 13 27.8 20.05S 178.34W 580 5.3b,5.1b
NEIC V 04 16 13 28.0–.00 20.37S 178.66W 571 5.3b,5.1b
GCMT V 04 16 13 28.6–.20 20.25S 178.40W 597–1 5.6W,5.1b
NEIC V 04 16 13 28.6–.09 20.40S 178.55W 584 5.6W,5.5W
IDC V 04 16 13 28.1–.57 20.35S 178.48W 573–5 5.5,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.0km az=151.9.
MOS Error ellipse: s-maj=8.7km s-min=7.2km az=71.7.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.10 $M_{\theta\theta}$1.00 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.70 $M_{\theta\phi}$-1.10 $M_{\phi r}$-0.80 Best double couple: NP1:ϕ_s84.00000° ,δ74.00000°,λ-122.00000°. NP2:ϕ_s332.00000°,δ35.00000°,λ-27.00000°. Principal axes: T 2.1000,Plg22.0000°,Azm199.0000°; N 0.5000,Plg31.0000°,Azm94.0000° ; P -2.6000,Plg49.0000°,Azm318.0000° $M_0$2.00000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s97,c147; s23,c23; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.94±.04 $M_{\theta\theta}$1.07±.06; $M_{\phi\phi}$-0.12±.06; $M_{r\theta}$-2.13±.05; $M_{\theta\phi}$-1.68±.05; $M_{\phi r}$-0.97±.06; Best double couple: NP1:ϕ_s84.00000°,δ78.00000° ,λ-129.00000°. NP2:ϕ_s340.00000°,δ40.00000°,λ-19.00000°. Principal axes: T 2.7710,Plg23.0000°,Azm203.0000°; N 0.5060,Plg38.0000°,Azm94.0000° ; P -3.2720,Plg44.0000°,Azm317.0000° $M_0$3.02100×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=139.0. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.98 $M_{\theta\theta}$1.73 $M_{\phi\phi}$0.25 $M_{r\theta}$-2.43 $M_{\theta\phi}$-1.71 $M_{\phi r}$-0.71 Best double couple: NP1:ϕ_s92.00000°,δ70.00000°,λ-121.00000°. NP2:ϕ_s332.00000° ,δ36.00000°,λ-35.00000°. Principal axes: T 3.4500,Plg20.0000°,Azm204.0000° ; N 0.2600,Plg29.0000°,Azm103.0000°; P -3.7100,Plg54.0000°,Azm323.0000° $M_0$3.60000×10^{17}
IDC Error ellipse: s-maj=8.5km s-min=7.4km az=132.0.
ISC V 04 17 45 35.6–2.1 21.4S–.50 178.0W–.30 412 3.5b 10 33-151
IDC V 04 17 45 41.3–25 21.50S 178.19W 470–227 4.1,3.4 **¶17202775**
ISC Event type ke.
IDC Error ellipse: s-maj=173.1km s-min=47.1km az=107.0.
IDC V 04 23 30 27.1–8.0 18.51S 176.61W 0 3.8,3.5 ¶17202806
IDC Error ellipse: s-maj=418.1km s-min=47.0km az=147.0.
ISC V 05 05 02 01.7–1.0 15.9S–.40 176.0W–.30 360 3.7b 15 5-147
ISCJB V 05 05 02 00.6–.91 15.8S–.40 176.1W–.20 360 3.8b **¶17202819**
IDC V 05 05 02 01.0–1.8 15.73S 176.10W 350–21 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=57.7km s-min=12.4km az=150.8.
IDC Error ellipse: s-maj=69.4km s-min=12.9km az=148.0.
ISC V 05 07 17 56.4–.36 20.43S–.06 177.44W–.07 500 4.7b 139 5-173
NEIC V 05 07 17 55.4–.77 20.53S 177.40W 494–9 4.8b **¶16497725**
ISCJB V 05 07 17 56.5–.33 20.51S–.04 177.68W–.07 500 4.5b
IDC V 05 07 17 58.7–2.2 20.44S 177.73W 516–24 4.4,3.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.8km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.9km az=175.4.
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=136.0.
ISC V 06 08 00 39.9–.40 17.76S–.08 179.53W–.08 600 4.2b 158 2-152
ISCJB V 06 08 00 39.0–.19 17.76S–.05 179.67W–.05 600 4.3b **¶16497789**
IDC V 06 08 00 39.6–1.4 17.82S 179.54W 597–17 4.5,3.8
NEIC V 06 08 00 40.4–.45 17.70S 179.65W 603–5 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.3km az=138.8.
IDC Error ellipse: s-maj=16.2km s-min=9.7km az=149.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.0km az=135.0.
IDC V 06 08 44 51.1–12 20.21S 176.27W 174–119 4.0,3.7 ¶17202909
IDC Error ellipse: s-maj=50.1km s-min=26.1km az=172.0.
IDC V 06 15 33 14.4–61 20.11S 178.58W 0 3.8,3.6 ¶17202934
IDC Error ellipse: s-maj=1119.0km s-min=167.8km az=82.0.
ISC V 06 20 26 35.2–.43 21.69S–.07 179.23W–.07 602 4.6b 121 5-154
ISCJB V 06 20 26 34.6–.31 21.75S–.05 179.38W–.07 602 4.6b **¶16578032**
NEIC V 06 20 26 34.9–1.1 21.67S 179.31W 593–12 4.9b
IDC V 06 20 26 38.7–1.5 21.53S 179.54W 632–17 4.6,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=11.9.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=10.1km az=92.0.
IDC Error ellipse: s-maj=15.7km s-min=10.7km az=158.0.
ISC V 07 18 10 31.6–.51 18.0S–.10 178.40W–.09 579 4.3b 106 8-148
ISCJB V 07 18 10 30.8–.26 17.94S–.08 178.53W–.06 579 4.3b **¶16709109**
NEIC V 07 18 10 30.5–.99 17.86S 178.51W 563–12 4.3b
IDC V 07 18 10 30.8–1.7 17.89S 178.48W 562–21 4.5,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.1km az=148.8.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=6.0km az=152.0.
IDC Error ellipse: s-maj=18.6km s-min=11.9km az=144.0.
ISC V 08 00 09 20.4–.34 20.38S–.06 178.28W–.06 587 4.7b 289 4-163
BJI V 08 00 09 15.0 20.55S 178.07W 552 5.0b,4.8b **¶16560931**
IDC V 08 00 09 16.7–1.1 20.27S 178.23W 538–12 4.7,4.0
NEIC V 08 00 09 17.2–.50 20.17S 178.24W 547–6 5.0b,4.0
ISCJB V 08 00 09 19.3–.23 20.34S–.04 178.34W–.05 587 4.6b,4.0
MOS V 08 00 09 19.0–1.9 19.25S 178.73W 524 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=10.0km az=147.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=37.4.
MOS Error ellipse: s-maj=11.5km s-min=10.7km az=39.8.
IDC V 08 03 19 17.6–4.2 19.78S 178.44W 0 4.1,3.9 ¶17203024
IDC Error ellipse: s-maj=177.4km s-min=35.9km az=141.0.
IDC V 08 08 40 42.8–1.5 17.96S 178.37W 547–20 4.2,3.5 ¶17203036
IDC Error ellipse: s-maj=21.4km s-min=13.1km az=123.0.

IDC V 08 15 25 37.4–61 17.55S 176.58E 0 4.2,4.0
¶17203055

IDC Error ellipse: s-maj=1069.0km s-min=133.3km az=76.0.
IDC V 08 19 00 13.9–27 18.72S 178.37W 650–244 3.5,2.7
¶17203067

IDC Error ellipse: s-maj=307.8km s-min=77.6km az=124.0.
IDC V 08 22 11 14.0–2.9 20.94S 178.94W 620–34 3.9,3.0
¶17203083

IDC Error ellipse: s-maj=27.7km s-min=17.0km az=173.0.
IDC V 09 07 00 23.7–3.8 19.23S 177.35W 415–57 4.3,3.5
¶17203111

IDC Error ellipse: s-maj=126.6km s-min=36.2km az=147.0.
IDC V 09 16 04 59.6–7.2 18.88S 176.68W 0 4.1,3.8
¶17203137

IDC Error ellipse: s-maj=275.3km s-min=116.4km az=152.0.
IDC V 10 14 54 58.8–1.9 17.31S 174.80E 0 5.2L,4.3
¶17203288

IDC Error ellipse: s-maj=114.3km s-min=25.9km az=151.0.
ISC V 11 00 48 08.7–.26 18.85S–.06 176.69W–.04 350 5.0b 839 5-176
IDC V 11 00 48 05.8–1.1 18.87S 176.75W 317–9 5.0,4.5 ¶16560023
NEIC V 11 00 48 06.2–.50 18.92S 176.77W 320–4 5.0b,4.5
GCMT V 11 00 48 06.2–.60 18.91S 176.05W 361–3 5.2W,4.5
ISCJB V 11 00 48 07.9–.11 18.98S–.03 176.78W–.02 350 4.9b,4.5
MOS V 11 00 48 07.1–1.8 18.79S 176.75W 327 5.0b,4.5
ISC Event type fe.
IDC Error ellipse: s-maj=10.6km s-min=9.0km az=158.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=149.0. Felt at Tubou and Vunisea.
GCMT Error ellipse: s-maj=6.7km s-min=7.8km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s56,c62;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42±.53 $M_{\theta\theta}$3.05±.87; $M_{\phi\phi}$-2.64±.68; $M_{r\theta}$0.89±.69; $M_{\theta\phi}$-3.28±.51; $M_{\phi r}$-7.91±.49; Best double couple: NP1:ϕ_s346.00000°,δ89.00000°,λ-62.00000°. NP2:ϕ_s77.00000°,δ28.00000°,λ-179.00000°. Principal axes: T 8.1050,Plg38.0000°,Azm50.0000°; N 1.6940,Plg28.0000°,Azm165.0000°; P -9.8050,Plg39.0000°,Azm281.0000° $M_0$8.95500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=2.5km az=153.5.
MOS Error ellipse: s-maj=8.0km s-min=6.7km az=135.2.
IDC V 11 02 12 15.4–6.4 17.00S 176.47W 0 4.6,4.3
¶17203341

IDC Error ellipse: s-maj=306.8km s-min=45.9km az=144.0.
IDC V 11 03 22 10.6–17 20.02S 178.34W 595–164 4.6,3.6
¶17203348

IDC Error ellipse: s-maj=143.4km s-min=75.0km az=109.0.
ISC V 11 04 29 37.0–.85 20.6S–.10 176.3W–.10 234 3.9b 16 6-148
IDC V 11 04 29 34.3–2.7 20.69S 176.37W 199–29 4.4,3.9 ¶16577266
NEIC V 11 04 29 34.9–1.2 20.73S 176.29W 208–13 4.3b,3.9
ISCJB V 11 04 29 35.5–.76 20.67S–.10 176.3W–.10 234 4.0b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 11 07 19 14.4–.95 20.7S–.20 178.9W–.20 645 3.8b 11 44-143
ISCJB V 11 07 19 13.1–.86 20.7S–.20 178.9W–.20 645 3.6b ¶17203364
IDC V 11 07 19 14.1–3.5 20.63S 178.92W 640–44 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.7km s-min=16.3km az=145.9.
IDC Error ellipse: s-maj=26.8km s-min=15.3km az=152.0.
IDC V 11 15 01 30.7–12 19.95S 177.97W 550–154 4.2,3.5
¶17203402

IDC Error ellipse: s-maj=87.1km s-min=42.6km az=155.0.
IDC V 11 19 32 42.6–2.3 16.26S 176.28W 355–32 4.1,3.6
¶17203426

IDC Error ellipse: s-maj=139.1km s-min=16.4km az=150.0.
IDC V 11 21 31 23.9–48 16.10S 176.88W 0 4.3,4.1
¶17203435

IDC Error ellipse: s-maj=902.7km s-min=170.3km az=77.0.
ISC V 12 12 29 25.5–.35 19.73S–.06 177.76W–.06 600 4.9b 334 4-173
BJI V 12 12 29 18.5 20.03S 177.07W 561 4.9b,4.8b ¶16560042
IDC V 12 12 29 23.4–1.3 19.77S 177.88W 564–14 4.9,4.1
ISCJB V 12 12 29 24.8–.22 19.91S–.03 177.96W–.06 600 4.8b,4.1
NEIC V 12 12 29 24.2–.61 19.79S 177.86W 579–7 5.1b,4.1
MOS V 12 12 29 28.2–2.1 18.88S 178.35W 583 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=9.9km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.0km az=5.6.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.0km az=113.0.
MOS Error ellipse: s-maj=12.8km s-min=10.2km az=28.6.
ISC V 12 16 22 12.3–.74 16.6S–.20 178.5W–.10 35 4.2b 17 7-91
IDC V 12 16 22 07.5–1.5 16.51S 178.69W 0 4.3,4.1 ¶16709699
NEIC V 12 16 22 12.4–.48 16.60S 178.57W 35 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=79.7km s-min=21.2km az=145.0.
NEIC Event type se. Error ellipse: s-maj=22.7km s-min=9.6km az=149.0.
IDC V 13 01 58 00.0–12 17.21S 178.86W 498–165 3.9,3.5
¶17203517

IDC Error ellipse: s-maj=193.9km s-min=36.6km az=162.0.
ISC V 13 17 05 05.3–.34 21.10S–.05 176.53W–.09 219 4.7b 361 6-172
ISCJB V 13 17 05 04.7–.15 21.05S–.03 176.77W–.05 219 4.6b ¶16510410
IDC V 13 17 05 04.9–2.1 20.93S 176.68W 212–19 4.5,4.1
MOS V 13 17 05 06.7–.91 21.02S 176.75W 238 4.9b,4.1
NEIC V 13 17 05 09.2–1.0 21.06S 176.81W 252–10 4.8b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=3.4km az=26.8.
IDC Error ellipse: s-maj=15.4km s-min=10.6km az=123.0.
MOS Error ellipse: s-maj=12.6km s-min=8.6km az=61.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=131.0.
IDC V 13 17 47 21.1–2.2 15.57S 176.30W 311–52 4.3,3.8
¶17203562

IDC Error ellipse: s-maj=270.3km s-min=38.5km az=155.0.
IDC V 15 02 53 44.0–5.1 18.62S 177.98W 0 4.1,3.8
¶17203657

IDC Error ellipse: s-maj=274.2km s-min=43.1km az=148.0.
ISC V 15 03 27 58.2–.79 20.9S–.20 178.3W–.10 587 3.8b 27 9-150
IDC V 15 03 27 55.1–2.0 20.79S 178.18W 553–22 4.3,3.7 ¶17203658
ISCJB V 15 03 27 57.1–.77 20.9S–.20 178.3W–.10 587 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 15 06 14 02.0–2.3 16.83S 177.74W 0 4.2,3.8b
¶17203670

IDC Error ellipse: s-maj=137.0km s-min=29.0km az=152.0.
IDC V 15 14 58 33.6–54 19.31S 176.85W 0 4.3,4.2
¶17203698

IDC Error ellipse: s-maj=999.7km s-min=156.4km az=82.0.
IDC V 16 07 53 34.2–53 17.24S 176.31W 0 4.0,3.8
¶17203733

IDC Error ellipse: s-maj=988.0km s-min=176.5km az=79.0.
IDC V 17 03 56 41.9–74 18.25S 175.32E 0 4.0,3.8
¶17203786

IDC Error ellipse: s-maj=1294.0km s-min=151.1km az=76.0.
IDC V 17 05 22 13.7–1.8 17.20S 178.01W 0 4.2,3.9b
¶17203788

IDC Error ellipse: s-maj=141.6km s-min=21.3km az=152.0.
IDC V 17 06 16 29.6–13 21.41S 178.71W 524–161 4.0,3.3
¶17203792

IDC Error ellipse: s-maj=84.1km s-min=35.8km az=16.0.
ISC V 17 07 08 30.2–1.1 19.4S–.20 177.6W–.20 550 3.7b 13 15-146
IDC V 17 07 08 28.6–5.2 19.35S 177.49W 534–52 4.2,3.5 ¶17203796
ISCJB V 17 07 08 29.5–1.1 19.5S–.20 177.6W–.20 550 3.7b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC V 17 07 31 59.0–7.6 18.72S 176.68W 0 3.7,3.5
¶17203799

IDC Error ellipse: s-maj=311.6km s-min=121.7km az=152.0.
IDC V 17 08 02 25.6–2.5 18.80S 177.66W 0 4.0,3.6
¶17203802

IDC Error ellipse: s-maj=273.1km s-min=31.1km az=160.0.
IDC V 17 20 35 55.9–17 17.39S 179.02W 591–168 4.5,3.6
¶17203837

IDC Error ellipse: s-maj=130.7km s-min=81.2km az=105.0.
IDC V 17 21 23 49.8–1.8 16.70S 178.07W 0 4.5,4.2
¶17203839

IDC Error ellipse: s-maj=150.7km s-min=31.6km az=155.0.
IDC V 17 21 29 34.2–56 17.14S 177.59W 0 4.0,3.8
¶17203841

IDC Error ellipse: s-maj=1040.0km s-min=156.3km az=79.0.
ISC V 18 17 20 24.1–.42 20.48S–.08 177.55W–.09 450 4.3b 133 5-173
ISCJB V 18 17 20 23.5–.40 20.45S–.07 177.6W–.10 450 4.3b ¶16560097
IDC V 18 17 20 24.9–1.4 20.39S 177.66W 451–13 4.6,3.9
NEIC V 18 17 20 25.6–.83 20.42S 177.59W 464–8 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=8.2km az=28.7.
IDC Error ellipse: s-maj=15.7km s-min=10.8km az=119.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.3km az=129.0.
ISC V 19 03 04 29.8–1.5 15.8S–.50 176.4W–.40 382 3.3b 11 5-146
IDC V 19 03 04 25.3–1.4 15.78S 176.31W 335–20 3.9,3.5 ¶17203932
ISC Event type ke.
IDC Error ellipse: s-maj=80.3km s-min=12.9km az=149.0.
IDC V 19 04 21 06.7–2.2 18.14S 178.09W 494–25 4.2,3.7
¶17203943

IDC Error ellipse: s-maj=72.6km s-min=13.0km az=152.0.
ISC V 19 13 28 48.6–1.4 18.8S–.40 177.8W–.20 532 3.4b 12 8-149
ISCJB V 19 13 28 48.2–1.3 18.7S–.40 177.9W–.30 532 3.4b ¶17203972
IDC V 19 13 28 48.5–1.9 18.85S 177.77W 530–21 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=59.2km s-min=10.8km az=149.5.
IDC Error ellipse: s-maj=59.0km s-min=15.8km az=145.0.
IDC V 20 14 58 28.6–2.8 19.76S 177.51W 544–30 4.0,3.2
¶17204049

IDC Error ellipse: s-maj=89.9km s-min=16.9km az=149.0.
ISC V 20 15 05 20.6–1.2 17.5S–.50 178.8W–.30 539 3.7b 10 8-147
ISCJB V 20 15 05 19.8–1.1 17.5S–.50 178.8W–.30 539 3.8b ¶17204050
IDC V 20 15 05 19.5–2.1 17.34S 178.89W 515–29 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=76.0km s-min=13.3km az=154.2.
IDC Error ellipse: s-maj=71.9km s-min=13.0km az=152.0.
IDC V 20 21 29 27.2–47 14.10S 175.95E 0 4.1,3.9
¶17204085

IDC Error ellipse: s-maj=839.0km s-min=145.6km az=71.0.
IDC V 21 04 51 16.1–7.3 20.43S 176.56W 300–72 4.1,3.6
¶17204109

IDC Error ellipse: s-maj=73.8km s-min=51.9km az=13.0.
IDC V 21 07 38 30.6–9.7 20.42S 177.71W 545–109 4.3,3.6
¶17204118

IDC Error ellipse: s-maj=108.7km s-min=47.0km az=167.0.
IDC V 21 09 00 33.9–55 16.86S 178.76W 0 4.1,3.9
¶17204124

IDC Error ellipse: s-maj=1015.0km s-min=147.1km az=78.0.
ISC V 21 10 32 04.9–1.4 17.5S–.50 178.7W–.30 539 3.6b 10 33-87
IDC V 21 10 32 12.7–6.7 17.51S 178.87W 634–85 4.2,3.4 ¶17204127
ISC Event type ke.
IDC Error ellipse: s-maj=77.2km s-min=27.9km az=151.0.
IDC V 21 13 35 10.7–2.0 20.20S 177.93W 497–26 3.9,3.3
¶17204139

IDC Error ellipse: s-maj=36.1km s-min=15.3km az=146.0.
IDC V 21 15 32 07.6–60 18.67S 179.53W 0 3.9,3.7
¶17204145

IDC Error ellipse: s-maj=1084.0km s-min=158.1km az=80.0.
ISC V 21 15 42 22.7–.74 19.2S–.20 177.5W–.10 570 3.5b 17 8-95
ISCJB V 21 15 42 21.7–.57 19.2S–.10 177.5W–.10 570 3.7b ¶17204146
IDC V 21 15 42 22.8–1.6 19.24S 177.53W 567–21 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=8.9km az=140.5.
IDC Error ellipse: s-maj=20.5km s-min=10.8km az=141.0.
ISC V 22 01 30 27.3–.94 21.9S–.20 179.9W–.20 35 3.3b 11 17-146
IDC V 22 01 30 25.9–1.1 21.87S 179.80W 20–5 3.8L,3.7 ¶17204173
ISCJB V 22 01 30 26.3–1.3 21.9S–.20 179.8W–.20 33 3.3b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 22 06 44 28.8–9.6 18.27S 178.18W 588–97 4.0,3.3
¶17204198

IDC Error ellipse: s-maj=253.8km s-min=34.4km az=156.0.
IDC V 22 17 14 13.8–3.2 19.15S 177.66W 549–28 4.1,3.2
¶17204243

IDC Error ellipse: s-maj=127.1km s-min=23.9km az=154.0.
ISC V 23 02 08 55.5–1.1 17.6S–.30 178.8W–.20 539 3.7b 13 8-150
ISCJB V 23 02 08 54.7–.95 17.5S–.30 178.9W–.20 539 3.8b ¶17204270
IDC V 23 02 08 55.5–2.1 17.53S 178.83W 536–25 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=49.5km s-min=13.8km az=152.4.
IDC Error ellipse: s-maj=54.7km s-min=13.5km az=151.0.
IDC V 23 02 46 10.2–3.2 20.41S 176.29W 0 4.2,4.0
¶17204273

IDC Error ellipse: s-maj=164.0km s-min=49.1km az=147.0.
ISC V 23 08 18 34.0–.62 20.18S–.09 176.2W–.10 222 4.3b 39 6-150
IDC V 23 08 18 30.6–2.6 19.90S 176.19W 189–24 4.5,4.1 ¶16710698
ISCJB V 23 08 18 32.9–.56 20.09S–.07 176.22W–.09 222 4.3b,4.1
NEIC V 23 08 18 33.2–1.4 20.00S 176.00W 220–13 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=12.5km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=9.9km az=10.4.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=11.4km az=126.0.
IDC V 23 12 28 15.5–8.4 18.42S 176.02W 0 3.8,3.5b
¶17204299

IDC Error ellipse: s-maj=386.2km s-min=67.8km az=144.0.
IDC V 23 17 38 06.5–4.7 19.91S 176.48W 294–44 4.3,3.8
¶17204312

IDC Error ellipse: s-maj=35.1km s-min=17.3km az=71.0.
IDC V 23 23 16 07.2–4.5 21.75S 179.17W 609–56 4.1,3.4
¶17204336

IDC Error ellipse: s-maj=38.7km s-min=22.9km az=177.0.
ISC V 24 09 23 59.1–.40 18.01S–.09 178.18W–.07 590 4.4b 143 4-175
ISCJB V 24 09 23 58.7–.32 18.00S–.07 178.33W–.07 590 4.3b ¶16710796
IDC V 24 09 23 58.2–1.5 18.06S 178.22W 574–17 4.7,3.9
NEIC V 24 09 23 59.1–.67 18.02S 178.27W 585–8 4.4b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=6.5km az=143.9.
IDC Error ellipse: s-maj=12.7km s-min=10.4km az=130.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.1km az=136.0.
IDC V 24 13 02 21.8–22 17.98S 178.16W 613–199 4.3,3.3
¶17204382

IDC Error ellipse: s-maj=194.5km s-min=82.4km az=94.0.
IDC V 24 15 00 59.7–50 17.74S 175.65E 0 4.2,4.0
¶17204387

IDC Error ellipse: s-maj=881.6km s-min=135.0km az=76.0.
IDC V 24 16 54 14.3–5.7 17.61S 178.31W 619–72 4.2,3.5
¶17204392

IDC Error ellipse: s-maj=53.1km s-min=25.0km az=157.0.
IDC V 24 17 11 06.4–33 16.48S 174.50E 0 4.2,4.0
¶17204394

IDC Error ellipse: s-maj=598.7km s-min=118.6km az=77.0.
IDC V 24 23 32 04.4–27 15.57S 176.73W 231–210 3.9,3.7
¶17204414

IDC Error ellipse: s-maj=262.1km s-min=37.7km az=134.0.
IDC V 25 10 59 08.7–2.1 19.80S 177.60W 542–25 4.4,3.6
¶17204446

IDC Error ellipse: s-maj=55.7km s-min=18.0km az=143.0.
IDC V 26 14 46 23.8–57 20.22S 177.33W 0 3.8,3.6 ¶17204512

IDC Error ellipse: s-maj=1052.0km s-min=173.3km az=83.0.
ISC V 27 01 06 44.1–.48 21.67S–.08 179.18W–.08 602 4.5b 110 5-171
ISCJB V 27 01 06 42.9–.40 21.71S–.06 179.17W–.08 602 4.4b ¶16560153
IDC V 27 01 06 42.3–1.4 21.52S 179.14W 574–15 4.6,3.8
NEIC V 27 01 06 42.9–.84 21.70S 179.05W 594–8 4.6b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.2km az=28.8.
IDC Error ellipse: s-maj=15.1km s-min=12.5km az=117.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.9km az=116.0.
ISC V 27 08 03 41.3–.79 17.9S–.20 178.5W–.20 579 3.7b 13 39-148
ISCJB V 27 08 03 40.3–.72 18.0S–.20 178.5W–.20 579 3.8b ¶17204552
IDC V 27 08 03 44.9–4.8 17.95S 178.59W 622–59 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.3km s-min=15.6km az=145.1.
IDC Error ellipse: s-maj=30.5km s-min=21.5km az=153.0.
IDC V 27 11 09 21.9–56 16.45S 177.26W 0 4.4s,4.4 ¶17204565

IDC Error ellipse: s-maj=1038.0km s-min=155.9km az=78.0.
ISC V 29 07 46 42.3–.67 15.3S–.20 176.4W–.10 17 5.0b,4.1s 32 5-177
IDC V 29 07 46 40.3–1.3 14.85S 176.86W 0 4.4,4.1 ¶16554077
ISCJB V 29 07 46 41.2–.58 15.3S–.20 176.5W–.10 17 4.7b,4.0s
NEIC V 29 07 46 44.7–.59 15.38S 176.45W 35 4.9b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=87.7km s-min=18.7km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=25.0km s-min=11.6km az=147.2.
NEIC Event type se. Error ellipse: s-maj=25.4km s-min=11.8km az=152.0.
ISC V 29 09 51 22.1–.68 18.6S–.20 179.1W–.10 548 3.6b 16 8-145
IDC V 29 09 51 20.9–2.0 18.64S 179.02W 527–23 4.1,3.5 ¶17204688
ISCJB V 29 09 51 21.2–.62 18.7S–.20 179.0W–.10 548 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC V 29 18 41 40.9–64 19.09S 179.29W 0 3.7,3.5 ¶17204717

IDC Error ellipse: s-maj=1154.0km s-min=151.6km az=80.0.
IDC V 30 04 32 07.2–11 21.99S 177.42W 538–122 3.8,3.2 ¶17204738

IDC Error ellipse: s-maj=55.7km s-min=31.8km az=56.0.
ISC V 30 20 36 20.9–.66 20.6S–.10 178.4W–.10 587 3.9b 31 9-152
ISCJB V 30 20 36 19.9–.57 20.6S–.10 178.4W–.10 587 3.8b ¶17204784
IDC V 30 20 36 22.7–2.2 20.54S 178.40W 606–26 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=10.7km az=145.0.
IDC Error ellipse: s-maj=21.6km s-min=10.6km az=153.0.
IDC V 30 23 23 21.9–6.6 19.62S 176.75W 0 3.8,3.6 ¶17204795

IDC Error ellipse: s-maj=335.4km s-min=58.6km az=148.0.
ISC V 31 06 15 04.9–1.3 17.8S–.30 178.6W–.20 579 3.5b 14 44-147
ISCJB V 31 06 15 04.4–1.3 17.6S–.40 178.7W–.20 579 3.5b ¶17204811
IDC V 31 06 15 07.4–5.7 17.78S 178.60W 606–66 3.9,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.2km s-min=18.2km az=154.2.
IDC Error ellipse: s-maj=43.4km s-min=21.9km az=146.0.
IDC V 31 08 38 11.0–1.7 17.87S 177.84W 0 4.2,4.0 ¶17204817

IDC Error ellipse: s-maj=153.9km s-min=29.5km az=156.0.
IDC VI 01 08 01 26.4–6.0 20.56S 176.38W 0 4.0,3.8 ¶17204871

IDC Error ellipse: s-maj=278.9km s-min=66.9km az=152.0.
IDC VI 01 15 41 47.4–67 20.55S 178.54W 0 3.7,3.5 ¶17204904

IDC Error ellipse: s-maj=1212.0km s-min=158.9km az=83.0.
IDC VI 03 07 17 18.2–1.7 17.09S 178.10W 0 4.2,4.0 ¶17205071

IDC Error ellipse: s-maj=159.0km s-min=28.8km az=156.0.
ISC VI 03 10 54 37.8–.44 20.96S–.07 178.51W–.08 579 4.4b 91 5-172
ISCJB VI 03 10 54 37.0–.33 20.97S–.06 178.55W–.07 579 4.3b ¶16555946
NEIC VI 03 10 54 36.3–.70 20.88S 178.42W 558–8 4.5b
IDC VI 03 10 54 38.8–2.8 20.77S 178.51W 586–31 4.5,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=7.4km az=143.2.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.0km az=154.0.
IDC Error ellipse: s-maj=16.9km s-min=14.6km az=95.0.
IDC VI 03 11 15 54.9–2.2 17.68S 178.04W 605–27 4.3,3.4 ¶17205091

IDC Error ellipse: s-maj=106.2km s-min=25.0km az=157.0.
IDC VI 03 19 05 31.7–31 19.81S 179.66W 0 3.9,3.7 ¶17205115

IDC Error ellipse: s-maj=585.6km s-min=132.2km az=86.0.
IDC VI 03 20 43 50.9–1.8 17.17S 177.88W 0 4.5,4.2 ¶17205120

IDC Error ellipse: s-maj=157.1km s-min=31.4km az=156.0.
IDC VI 05 10 33 18.0–10 18.48S 173.21E 0 4.4,4.3 ¶17205311

IDC Error ellipse: s-maj=211.1km s-min=39.6km az=43.0.
ISC VI 05 16 35 07.2–.45 15.22S–.05 177.76W–.04 28–2 5.8s,5.5b 1122 5-178
NEIC VI 05 16 35 03.0–.00 15.08S 177.93W 11 5.8s,5.5b ¶16722616
IDC VI 05 16 35 03.4–.45 15.11S 177.87W 0 5.6,5.6
BJI VI 05 16 35 03.9 14.62S 177.49W 10 5.9s,5.6
NEIC VI 05 16 35 04.3–4.0 15.12S 177.89W 13–24 5.9W,5.8s
GCMT VI 05 16 35 04.3–.10 14.96S 177.84W 15 5.9W,5.8s
ISCJB VI 05 16 35 06.4–.11 15.13S–.03 177.92W–.02 33 5.7s,5.4b
MOS VI 05 16 35 06.9–1.4 15.05S 177.92W 33 5.7s,5.6b
ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11 $M_{\theta\theta}$-0.45 $M_{\phi\phi}$0.56 $M_{r\theta}$0.08 $M_{\theta\phi}$7.68 $M_{\phi r}$-1.10 Best double couple: NP1:ϕ_s358.00000°,δ89.00000°,λ-171.00000°. NP2:ϕ_s268.00000°,δ82.00000°,λ0.00000°. Principal axes: T 7.8200,Plg5.0000°,Azm132.0000°; N -0.1000,Plg81.0000°,Azm1.0000° ; P -7.7200,Plg6.0000°,Azm223.0000° $M_0$7.80000×10^{17}
IDC Error ellipse: s-maj=15.4km s-min=12.1km az=122.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=154.0. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.75 $M_{\theta\theta}$2.64 $M_{\phi\phi}$-0.89 $M_{r\theta}$0.43 $M_{\theta\phi}$4.57 $M_{\phi r}$2.43 Best double couple: NP1:ϕ_s98.00000°,δ59.00000°,λ-13.00000°. NP2:ϕ_s195.00000°,δ79.00000°,λ-149.00000°. Principal axes: T 6.1600,Plg13.0000°,Azm323.0000° ; N -1.1100,Plg57.0000°,Azm213.0000°; P -5.0500,Plg30.0000°,Azm61.0000° $M_0$5.70000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s128,c271; s139,c442;Duration: 2$\frac{s}{3}$ Moment tensor: Scale 10^{18} Nm; M_{rr}-0.04±.01 $M_{\theta\theta}$-0.18±.01; $M_{\phi\phi}$0.22±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$0.97±.01; $M_{\phi r}$-0.10±.02; Best double couple: NP1:ϕ_s174.00000°,δ88.00000°,λ174.00000°. NP2:ϕ_s264.00000°,δ84.00000°,λ2.00000°. Principal axes: T 1.0210,Plg5.0000°,Azm129.0000° ; N -0.0510,Plg84.0000°,Azm337.0000°; P -0.9700,Plg3.0000°,Azm219.0000° $M_0$0.99500×10^{18}
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.7km az=152.0.
MOS Error ellipse: s-maj=8.7km s-min=6.6km az=54.1.
ISC VI 05 16 55 51.6–.33 15.03S–.07 177.72W–.06 10 5.1b,4.8s 476 5-178
ISCJB VI 05 16 55 49.6–.16 15.09S–.04 177.78W–.04 10 5.0b,4.9s ¶16557348
IDC VI 05 16 55 50.1–.49 15.10S 177.77W 0 4.8,4.8s
GCMT VI 05 16 55 50.8–.20 14.95S 177.79W 12 5.4W,4.8s
NEIC VI 05 16 55 50.8–.15 15.00S 177.85W 10 5.1b,4.8s
BJI VI 05 16 55 52.6 14.44S 177.63W 6 5.6b,5.5s
MOS VI 05 16 55 54.0–1.6 15.04S 177.76W 33 5.3b,5.5s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.8km az=147.3.
IDC Error ellipse: s-maj=19.3km s-min=13.2km az=121.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c45; s119,c201; Duration: 1$\frac{s}{2}$ Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.03 $M_{\theta\theta}$-1.11±.02; $M_{\phi\phi}$1.17±.02; $M_{r\theta}$-0.10±.07; $M_{\theta\phi}$0.58±.02; $M_{\phi r}$0.47±.07; Best double couple: NP1:ϕ_s328.00000°,δ86.00000°,λ161.00000°. NP2:ϕ_s59.00000°,δ71.00000°,λ4.00000°. Principal axes: T 1.4340,Plg16.0000°,Azm282.0000°; N -0.1520,Plg71.0000°,Azm136.0000° ; P -1.2860,Plg10.0000°,Azm15.0000° $M_0$1.36000×10^{17}
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=3.9km az=142.0.
MOS Error ellipse: s-maj=10.5km s-min=8.0km az=51.4.
ISC VI 05 23 54 19.9–1.8 18.3S–.40 176.1W–.20 35 4.4b 17 6-149
IDC VI 05 23 54 15.4–5.4 18.09S 176.28W 0 4.4,4.2 ¶16684505
ISCJB VI 05 23 54 18.1–1.8 18.2S–.40 176.2W–.30 33 4.5b,4.2
NEIC VI 05 23 54 19.6–1.0 18.26S 176.09W 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=264.7km s-min=43.7km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=60.1km s-min=13.4km az=146.3.
NEIC Event type se. Error ellipse: s-maj=37.4km s-min=9.6km az=147.0.
ISC VI 06 02 45 32.5–.95 19.2S–.20 177.5W–.20 570 4.0b 9 8-87
ISCJB VI 06 02 45 31.5–.83 19.2S–.20 177.4W–.20 570 3.8b ¶17205376
IDC VI 06 02 45 32.2–1.8 19.19S 177.48W 563–26 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.6km s-min=14.0km az=145.4.
IDC Error ellipse: s-maj=28.3km s-min=15.6km az=146.0.
IDC VI 06 09 18 04.3–50 16.61S 178.67W 0 3.9,3.7 ¶17205398

IDC Error ellipse: s-maj=922.7km s-min=149.9km az=77.0.
ISC VI 06 12 17 44.0–.43 15.22S–.08 178.01W–.07 379 4.3b 102 5-178
ISCJB VI 06 12 17 43.3–.24 15.18S–.06 178.12W–.05 379 4.3b ¶16558765
IDC VI 06 12 17 44.4–1.9 15.21S 177.95W 385–20 4.6,4.0
NEIC VI 06 12 17 45.8–.68 15.20S 178.04W 395–7 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.4km az=149.2.
IDC Error ellipse: s-maj=13.5km s-min=10.3km az=139.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.4km az=145.0.
IDC VI 06 17 42 42.0–16 20.79S 176.85W 391–142 3.8,3.3 ¶17205424

IDC Error ellipse: s-maj=133.6km s-min=34.0km az=126.0.
IDC VI 07 02 52 26.3–3.5 19.58S 178.19W 468–32 3.8,3.3 ¶17205444

IDC Error ellipse: s-maj=115.4km s-min=17.9km az=152.0.
ISC VI 07 08 52 16.7–.49 17.94S–.08 178.65W–.09 579 4.6b 88 3-153
NEIC VI 07 08 52 09.9–.67 17.84S 178.45W 501–8 4.7b ¶16577416
IDC VI 07 08 52 09.6–1.9 17.68S 178.53W 491–23 4.3,3.7
ISCJB VI 07 08 52 14.9–.31 18.05S–.05 178.57W–.07 579 4.5b,3.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 07 11 46 02.9–1.1 18.0S–.30 177.9W–.20 350 3.6b 13 7-148
IDC VI 07 11 46 01.6–2.1 18.09S 177.85W 334–21 4.1,3.7 ¶17205480
ISCJB VI 07 11 46 02.1–1.1 18.0S–.30 177.9W–.20 350 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC VI 07 12 15 03.4–48 18.15S 177.54W 0 4.2,4.0 ¶17205484

IDC Error ellipse: s-maj=893.7km s-min=158.3km az=80.0.
ISC VI 08 07 33 04.4–.47 18.2S–.10 178.12W–.09 590 4.3b 97 7-175
ISCJB VI 08 07 33 03.7–.50 18.1S–.10 178.22W–.09 590 4.2b ¶16580620
IDC VI 08 07 33 04.0–1.7 17.97S 178.30W 572–19 4.6,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=7.9km az=149.7.
IDC Error ellipse: s-maj=18.2km s-min=11.2km az=142.0.
IDC VI 08 10 39 14.1–1.4 17.30S 178.58W 492–16 4.3,3.6 ¶17205551

IDC Error ellipse: s-maj=83.8km s-min=13.2km az=156.0.
IDC VI 08 22 37 27.1–36 15.32S 173.35E 0 4.1,4.0 ¶17205577

IDC Error ellipse: s-maj=624.7km s-min=125.9km az=66.0.
IDC VI 08 23 35 47.1–6.0 18.00S 177.00W 0 4.3,4.0 ¶17205579

IDC Error ellipse: s-maj=296.8km s-min=53.3km az=147.0.
IDC VI 09 10 51 18.8–12 15.33S 178.24W 450–149 3.8,3.3 ¶17205614

IDC Error ellipse: s-maj=87.5km s-min=36.0km az=154.0.
IDC VI 09 12 15 45.2–12 16.55S 179.23W 443–152 3.6,3.2 ¶17205624

IDC Error ellipse: s-maj=119.4km s-min=35.0km az=162.0.
ISC VI 09 15 24 60.0–1.2 17.6S–.50 178.7W–.30 547 3.9b 10 8-147
ISCJB VI 09 15 24 59.2–1.1 17.6S–.50 178.7W–.30 547 3.9b ¶17205642
IDC VI 09 15 24 59.2–1.9 17.34S 178.88W 526–25 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=76.7km s-min=13.7km az=154.2.
IDC Error ellipse: s-maj=72.6km s-min=15.5km az=152.0.
IDC VI 09 16 13 12.3–7.1 19.89S 177.76W 0 3.6,3.3 ¶17205645

IDC Error ellipse: s-maj=316.3km s-min=111.2km az=154.0.
ISC VI 09 18 35 59.2–1.3 18.2S–.40 178.2W–.20 600 4.4b 14 29-86
IDC VI 09 18 36 00.7–3.2 17.69S 178.36W 610–40 4.6,3.8 ¶17205652
ISC Event type ke.
IDC Error ellipse: s-maj=101.2km s-min=19.6km az=159.0.
IDC VI 10 01 54 35.2–8.6 19.22S 176.61W 0 4.2,3.9 ¶17205676

IDC Error ellipse: s-maj=322.2km s-min=43.6km az=17.0.
IDC VI 10 06 22 30.2–20 18.97S 177.45W 511–171 3.7,3.1 ¶17205688

IDC Error ellipse: s-maj=251.8km s-min=52.1km az=135.0.
IDC VI 11 03 38 17.6–1.7 16.77S 178.28W 0 4.5,4.2 ¶17205749

IDC Error ellipse: s-maj=152.8km s-min=29.2km az=155.0.
IDC VI 11 18 14 51.2–3.0 19.02S 177.78W 552–27 3.7,3.0 ¶17205789

IDC Error ellipse: s-maj=127.8km s-min=20.7km az=154.0.
IDC VI 12 05 18 34.1–2.0 17.76S 178.18W 615–27 4.1,3.4 ¶17205816

IDC Error ellipse: s-maj=80.6km s-min=13.4km az=153.0.
IDC VI 12 10 19 45.9–5.0 19.56S 179.63W 0 4.1,3.9 ¶17205822

IDC Error ellipse: s-maj=268.5km s-min=69.2km az=155.0.
ISC VI 12 18 47 57.1–.69 17.7S–.20 178.8W–.10 500 3.9b 28 8-150
ISCJB VI 12 18 47 56.4–.60 17.7S–.10 178.8W–.10 500 3.7b ¶17205925
IDC VI 12 18 47 57.3–1.5 17.74S 178.70W 505–19 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=9.1km az=151.0.
IDC Error ellipse: s-maj=27.7km s-min=12.7km az=141.0.
ISC VI 12 20 50 08.4–.93 17.9S–.30 178.0W–.10 590 3.9b 63 7-153
ISCJB VI 12 20 50 07.7–.83 17.8S–.20 178.1W–.10 590 3.9b ¶17206000
IDC VI 12 20 50 08.8–1.6 17.84S 178.21W 583–18 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.8km s-min=9.6km az=153.0.
IDC Error ellipse: s-maj=30.0km s-min=11.0km az=148.0.
IDC VI 13 02 32 54.2–20 21.17S 178.00W 585–177 4.3,3.6 ¶17206024

IDC Error ellipse: s-maj=303.4km s-min=60.0km az=138.0.
ISC VI 13 05 41 38.7–1.2 22.0S–.20 176.8W–.30 223 3.6b 17 17-152
IDC VI 13 05 41 37.7–12 21.54S 177.07W 199–113 4.1,3.8 ¶17206030
ISCJB VI 13 05 41 38.5–1.5 21.9S–.10 177.0W–.30 223 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 13 06 14 53.5–7.6 18.91S 176.37W 0 3.9,3.8 ¶17206033

IDC Error ellipse: s-maj=365.3km s-min=37.0km az=144.0.
IDC VI 13 10 19 30.7–28 18.29S 177.51W 521–253 3.7,3.1 ¶17206041

IDC Error ellipse: s-maj=304.5km s-min=45.8km az=132.0.
ISC VI 13 12 46 00.3–.34 19.26S–.04 177.41W–.04 570–3 5.0b 787 5-174
MOS VI 13 12 45 58.7–.97 19.05S 177.56W 556 4.8b ¶16593458
BJI VI 13 12 45 58.9 18.75S 177.40W 552 4.9b,4.8b

ISCJB VI 13 12 45 58.7–.50 19.23S–.03 177.48W–.02 562–6 5.0b,4.8b
IDC VI 13 12 45 59.4–.79 19.17S 177.44W 560–8 5.1,4.4
NEIC VI 13 12 46 00.6–.44 19.19S 177.52W 571–5 5.2b,4.4
GCMT VI 13 12 46 00.6–.40 19.25S 177.34W 585–3 5.3W,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=9.0km s-min=7.7km az=57.3.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=158.1.
IDC Error ellipse: s-maj=9.0km s-min=8.1km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=142.0. Felt at Suva.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s59,c72;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.25±.04 $M_{\theta\theta}$0.20±.06; $M_{\phi\phi}$-0.45±.05; $M_{r\theta}$-0.18±.06; $M_{\theta\phi}$0.01±.05; $M_{\phi r}$-0.98±.05; Best double couple: NP1:ϕ_s191.00000°,δ81.00000°,λ97.00000°. NP2:ϕ_s333.00000°,δ12.00000°,λ52.00000°. Principal axes: T 0.9740,Plg54.0000°,Azm110.0000°; N 0.1770,Plg7.0000°,Azm10.0000° ; P -1.1510,Plg35.0000°,Azm275.0000° $M_0$1.06200×10^{17}

IDC VI 13 17 36 16.3–2.2 15.25S 178.63W 0 4.1,3.8
¶17206059

IDC Error ellipse: s-maj=164.8km s-min=31.5km az=154.0.
IDC VI 13 21 38 43.9–11 20.22S 178.28W 517–122 3.8,3.2
¶17206070

IDC Error ellipse: s-maj=54.2km s-min=24.3km az=67.0.
IDC VI 14 00 07 56.4–1.8 16.75S 178.28W 0 4.5,4.3
¶17206076

IDC Error ellipse: s-maj=228.1km s-min=31.5km az=153.0.
ISC VI 14 08 16 19.2–.73 17.6S–.20 178.6W–.10 547 3.8b 15 8-147
ISCJB VI 14 08 16 18.0–.66 17.6S–.20 178.7W–.10 547 3.7b **¶17206098**
IDC VI 14 08 16 18.1–1.6 17.58S 178.71W 528–21 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.9km s-min=10.0km az=153.3.
IDC Error ellipse: s-maj=26.9km s-min=13.9km az=146.0.
IDC VI 14 08 59 51.9–49 18.89S 177.49W 0 4.1,3.9
¶17206103

IDC Error ellipse: s-maj=898.6km s-min=145.7km az=81.0.
IDC VI 14 10 01 47.9–51 16.33S 176.49W 0 4.1,3.9
¶17206107

IDC Error ellipse: s-maj=946.0km s-min=171.8km az=78.0.
IDC VI 14 12 45 05.0–59 19.44S 178.82W 0 4.4,4.2
¶17206115

IDC Error ellipse: s-maj=1072.0km s-min=150.9km az=81.0.
IDC VI 14 22 44 51.9–15 17.98S 178.07W 603–150 4.3,3.4
¶17206138

IDC Error ellipse: s-maj=139.0km s-min=73.3km az=114.0.
ISC VI 15 01 25 56.7–1.4 17.6S–.50 177.0W–.30 300 3.5b 14 6-150
ISCJB VI 15 01 25 55.8–1.3 17.6S–.50 177.1W–.30 300 3.5b **¶17206147**
IDC VI 15 01 25 56.7–2.5 17.74S 176.99W 299–25 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=85.4km s-min=9.8km az=150.0.
IDC Error ellipse: s-maj=84.6km s-min=15.2km az=148.0.
ISC VI 16 04 12 39.0–.52 18.1S–.10 178.4W–.10 579 4.2b 58 8-175
ISCJB VI 16 04 12 38.4–.49 18.2S–.10 178.45W–.10 579 4.1b **¶16720931**
IDC VI 16 04 12 40.6–1.6 18.02S 178.39W 595–20 4.6,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=8.8km az=145.2.
IDC Error ellipse: s-maj=18.9km s-min=12.1km az=145.0.
ISC VI 16 07 10 11.9–.60 17.8S–.10 178.5W–.10 579 3.8b 22 8-147
ISCJB VI 16 07 10 11.1–.56 17.8S–.10 178.6W–.10 579 4.0b **¶17206280**
IDC VI 16 07 10 12.9–1.7 17.79S 178.58W 590–20 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=11.3km az=151.8.
IDC Error ellipse: s-maj=17.8km s-min=13.0km az=153.0.
IDC VI 16 09 01 45.8–8.8 19.73S 177.84W 0 4.2,4.1
¶17206296

IDC Error ellipse: s-maj=236.5km s-min=45.2km az=122.0.
IDC VI 16 09 34 36.2–2.8 21.07S 176.17W 0 4.2,3.9
¶17206301

IDC Error ellipse: s-maj=179.1km s-min=50.3km az=156.0.
ISC VI 16 11 49 37.0–1.8 20.9S–.40 178.6W–.30 579 3.8b 12 14-150
ISCJB VI 16 11 49 35.8–1.8 20.9S–.40 178.5W–.30 579 3.8b **¶17206314**
IDC VI 16 11 49 36.4–6.1 20.89S 178.50W 574–61 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=68.8km s-min=17.0km az=147.9.
IDC Error ellipse: s-maj=69.5km s-min=28.0km az=138.0.
IDC VI 16 19 16 29.0–50 18.24S 178.76W 0 4.2,4.0
¶17206340

IDC Error ellipse: s-maj=913.2km s-min=161.1km az=79.0.
IDC VI 16 19 25 34.7–7.4 18.79S 177.58W 0 3.9,3.6
¶17206341

IDC Error ellipse: s-maj=294.7km s-min=117.6km az=152.0.
ISC VI 17 04 17 53.5–1.4 20.9S–.30 177.9W–.20 400 3.6b 17 9-151
IDC VI 17 04 17 50.9–3.0 21.38S 177.78W 380–28 4.1,3.5 **¶17206366**
ISCJB VI 17 04 17 52.2–1.3 21.0S–.30 177.9W–.20 400 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC VI 17 14 31 50.6–13 19.59S 178.70W 520–155 3.6,3.1
¶17206393

IDC Error ellipse: s-maj=122.3km s-min=44.8km az=164.0.
ISC VI 18 04 35 36.7–.55 17.7S–.20 177.0W–.10 372 4.1b 71 5-175
IDC VI 18 04 35 33.2–1.6 17.66S 177.23W 330–17 4.6,4.1 **¶16720941**
NEIC VI 18 04 35 39.7–.98 17.76S 177.34W 397–10 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=11.3km az=135.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=8.1km az=139.0.
IDC VI 18 22 19 04.0–15 14.74S 175.09E 650–209 4.1,3.1
¶17206493

IDC Error ellipse: s-maj=109.8km s-min=76.1km az=115.0.
IDC VI 19 00 29 14.8–7.4 17.45S 178.98W 527–78 4.2,3.6
¶17206501

IDC Error ellipse: s-maj=82.0km s-min=32.8km az=148.0.
ISC VI 19 06 03 49.0–.41 19.84S–.05 177.87W–.06 396–3 4.6b 369 4-173
ISCJB VI 19 06 03 48.1–.92 19.81S–.04 177.94W–.04 398–9 4.5b **¶16632968**
NEIC VI 19 06 03 48.8–.13 19.79S 177.89W 394 4.6b
IDC VI 19 06 03 50.0–.65 19.76S 177.92W 403–6 4.8,4.2
MOS VI 19 06 03 49.4–.98 19.72S 177.93W 406 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=45.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.8km az=139.0.
IDC Error ellipse: s-maj=10.9km s-min=8.7km az=137.0.
MOS Error ellipse: s-maj=10.2km s-min=9.6km az=94.1.
IDC VI 19 11 01 49.7–6.0 14.66S 177.62W 464–68 4.1,3.5
¶17206522

IDC Error ellipse: s-maj=70.8km s-min=24.8km az=149.0.
ISC VI 19 16 43 00.3–.68 17.6S–.20 178.5W–.10 547 3.9b 41 7-150
ISCJB VI 19 16 42 59.6–.65 17.5S–.10 178.5W–.10 547 4.0b **¶17206536**
IDC VI 19 16 43 01.3–1.7 17.57S 178.45W 559–20 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=11.6km az=153.5.
IDC Error ellipse: s-maj=20.5km s-min=12.7km az=148.0.
ISC VI 19 21 26 46.5–.31 15.22S–.05 178.06W–.05 35 5.0b,4.7s 330 4-178
IDC VI 19 21 26 39.7–.75 15.02S 178.07W 0 4.8s,4.8 **¶16633288**
BJI VI 19 21 26 42.4 14.75S 178.20W 6 5.2b,5.1s
ISCJB VI 19 21 26 44.5–.16 15.11S–.04 178.19W–.04 35 5.0b,4.7s
MOS VI 19 21 26 45.2–1.7 15.07S 178.25W 37 5.2b,4.7s
NEIC VI 19 21 26 46.2–.19 15.02S 178.25W 35 5.0b,4.7s
GCMT VI 19 21 26 49.8–.10 15.01S 177.94W 12 5.4W,4.7s
ISC Event type fe.
IDC Error ellipse: s-maj=26.4km s-min=17.2km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=44.3.
MOS Error ellipse: s-maj=12.0km s-min=7.5km az=135.4.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=4.9km az=127.0. Felt at Lambasa, Nausori and Suva. Also felt at Sigave, Wallis and Futuna.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c155; s121,c220; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.02 $M_{\theta\theta}$-0.39±.02; $M_{\phi\phi}$0.54±.02; $M_{r\theta}$-0.18±.04; $M_{\theta\phi}$1.30±.01; $M_{\phi r}$-0.09±.04; Best double couple: NP1:ϕ_s260.00000°,δ89.00000° ,λ8.00000°. NP2:ϕ_s170.00000°,δ82.00000°,λ179.00000°. Principal axes: T 1.4790,Plg6.0000°,Azm125.0000°; N -0.1670,Plg82.0000°,Azm268.0000° ; P -1.3120,Plg5.0000°,Azm35.0000° $M_0$1.39600×10^{17}

IDC VI 19 21 47 09.6–2.3 16.90S 177.35W 0 4.2,3.8b
¶17206552

IDC Error ellipse: s-maj=146.4km s-min=34.3km az=152.0.
ISC VI 20 10 53 44.3–.60 16.1S–.10 176.4W–.10 382 3.9b 17 5-145
ISCJB VI 20 10 53 42.9–.54 16.1S–.10 176.5W–.10 382 3.9b **¶17206590**
IDC VI 20 10 53 42.7–2.0 15.96S 176.55W 359–21 4.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=12.2km az=38.6.
IDC Error ellipse: s-maj=23.3km s-min=13.3km az=133.0.
IDC VI 21 04 43 52.9–9.3 17.24S 179.03W 637–123 4.4,3.7
¶17206652

IDC Error ellipse: s-maj=46.0km s-min=23.7km az=83.0.
IDC VI 21 14 48 27.1–31 19.80S 177.93W 448–288 4.4,3.7
¶17206682

IDC Error ellipse: s-maj=189.3km s-min=108.8km az=87.0.
IDC VI 22 13 33 28.1–7.3 15.64S 176.78W 0 4.0,3.7
¶17206758

IDC Error ellipse: s-maj=323.4km s-min=36.3km az=140.0.
ISC VI 22 19 04 28.1–.81 21.2S–.20 178.7W–.20 550 3.8b 30 17-151
IDC VI 22 19 04 26.4–5.1 21.22S 178.51W 526–57 4.2,3.6 **¶17206772**
ISCJB VI 22 19 04 27.8–.78 21.3S–.20 178.6W–.20 550 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC VI 22 21 26 22.2–6.7 21.24S 178.83W 0 3.9,3.6
¶17206782

IDC Error ellipse: s-maj=301.6km s-min=68.0km az=149.0.
ISC VI 22 22 16 55.0–.34 21.78S–.04 179.02W–.04 550–3 5.2b 1018 5-176
ISCJB VI 22 22 16 54.3–.45 21.79S–.03 179.17W–.03 546–5 5.1b **¶16720973**
IDC VI 22 22 16 54.6–.79 21.73S 179.17W 541–7 5.3,4.5
BJI VI 22 22 16 54.8 21.47S 178.71W 559 5.1b,4.8b
MOS VI 22 22 16 54.4–.89 21.70S 179.15W 545 5.2b,4.8b
NEIC VI 22 22 16 56.8–.37 21.74S 179.24W 567–4 5.2b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.3km az=137.6.
IDC Error ellipse: s-maj=9.2km s-min=7.5km az=154.0.
MOS Error ellipse: s-maj=9.6km s-min=7.8km az=67.5.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.3km az=149.0.
ISC VI 22 23 03 40.2–1.8 21.6S–.50 177.1W–.40 200 4.2b 36 38-154
IDC VI 22 23 03 14.8–2.4 22.06S 176.49W 0 4.8,4.6b **¶17206786**
ISC Event type ke.
IDC Error ellipse: s-maj=124.4km s-min=25.8km az=145.0.
IDC VI 24 07 07 40.4–49 16.57S 177.97W 0 4.2,4.0
¶17206852

IDC Error ellipse: s-maj=897.1km s-min=160.4km az=77.0.
IDC VI 24 20 31 25.2–57 16.17S 177.86W 0 4.1,3.9
¶17206888

IDC Error ellipse: s-maj=1045.0km s-min=162.7km az=77.0.
IDC VI 25 06 16 50.8–7.3 17.70S 178.29W 589–83 4.3,3.6
¶17206907

IDC Error ellipse: s-maj=116.2km s-min=37.1km az=158.0.
ISC VI 25 20 24 47.4–.48 17.7S–.10 178.66W–.08 539 4.2b 138 3-158
ISCJB VI 25 20 24 47.1–.38 17.68S–.10 178.76W–.06 539 4.3b **¶16731463**
IDC VI 25 20 24 47.7–1.1 17.82S 178.59W 542–12 4.6,3.8
NEIC VI 25 20 24 48.6–.61 17.69S 178.77W 549–8 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=6.1km az=155.9.
IDC Error ellipse: s-maj=19.0km s-min=10.4km az=151.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=8.2km az=156.0.
ISC VI 26 18 22 39.0–.60 19.6S–.10 177.6W–.10 400 3.7b 25 8-174
ISCJB VI 26 18 22 38.3–.54 19.5S–.10 177.7W–.10 400 3.8b **¶17207015**
IDC VI 26 18 22 40.3–2.2 19.58S 177.65W 413–24 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=8.6km az=137.6.
IDC Error ellipse: s-maj=15.6km s-min=12.8km az=107.0.
IDC VI 26 22 36 23.4–27 16.56S 176.04W 0 4.3,4.1
¶17207027

IDC Error ellipse: s-maj=536.2km s-min=147.1km az=84.0.
IDC VI 26 23 19 30.3–7.2 21.17S 179.06W 611–85 3.6,3.0
¶17207028

IDC Error ellipse: s-maj=118.1km s-min=36.8km az=160.0.
ISC VI 27 16 16 39.9–.78 18.0S–.20 178.7W–.10 579 4.0b 30 8-148
IDC VI 27 16 16 35.4–1.4 17.93S 178.50W 527–17 4.5,3.8 **¶17207086**
ISCJB VI 27 16 16 38.7–.72 18.0S–.10 178.7W–.10 579 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 27 18 22 46.8–2.4 15.78S 177.71W 367–31 4.0,3.5
¶17207091

IDC Error ellipse: s-maj=90.5km s-min=15.5km az=152.0.
IDC VI 28 06 27 11.1–11 17.27S 176.86W 0 4.1,3.8
¶17207117

IDC Error ellipse: s-maj=509.9km s-min=35.9km az=142.0.
IDC VI 28 06 28 55.8–2.1 16.79S 177.35W 0 4.3,3.9
¶17207118

IDC Error ellipse: s-maj=127.8km s-min=28.3km az=152.0.
ISC VI 28 07 07 21.4–.32 16.99S–.07 177.10W–.06 35 5.0b,4.7s 423 5-176
IDC VI 28 07 07 15.3–.64 17.05S 177.02W 0 4.9,4.9s **¶16683890**
ISCJB VI 28 07 07 19.8–.16 16.87S–.05 177.22W–.04 33 5.0s,4.9b
BJI VI 28 07 07 20.2 16.70S 177.29W 22 5.5b,5.5s
MOS VI 28 07 07 21.2–1.5 16.66S 177.35W 33 5.1b,5.5s
GCMT VI 28 07 07 22.1–.20 16.88S 176.98W 12 5.3W,5.5s
NEIC VI 28 07 07 22.1–1.3 16.75S 177.29W 36–12 5.0b,5.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=15.1km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=3.4km az=151.0.
MOS Error ellipse: s-maj=12.6km s-min=8.4km az=135.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c67; s110,c180; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.07±.02 $M_{\theta\theta}$-0.84±.02; $M_{\phi\phi}$0.90±.02; $M_{r\theta}$-0.27±.06; $M_{\theta\phi}$-0.08±.02; $M_{\phi r}$0.81±.05; Best double couple: NP1:ϕ_s315.00000°,δ86.00000° ,λ140.00000°. NP2:ϕ_s48.00000°,δ50.00000°,λ5.00000°. Principal axes: T 1.3800,Plg30.0000°,Azm264.0000°; N -0.4320,Plg50.0000°,Azm130.0000° ; P -0.9480,Plg24.0000°,Azm9.0000° $M_0$1.16400×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.5km az=147.0.
IDC VI 28 07 23 23.2–1.6 16.33S 177.61W 0 4.4,4.3
¶17207124

IDC Error ellipse: s-maj=80.0km s-min=23.3km az=145.0.
ISC VI 28 09 50 44.9–.92 20.5S–.20 177.6W–.10 300 4.2b 17 9-150
ISCJB VI 28 09 50 43.6–.82 20.5S–.10 177.7W–.10 300 4.1b **¶17207133**
IDC VI 28 09 50 45.7–2.4 20.56S 177.71W 309–26 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.7km s-min=9.4km az=139.3.
IDC Error ellipse: s-maj=28.1km s-min=17.4km az=137.0.
IDC VI 30 05 39 37.1–6.7 20.22S 177.69W 0 4.3,4.0
¶17207233

IDC Error ellipse: s-maj=306.1km s-min=103.0km az=155.0.
IDC VI 30 05 39 57.5–2.5 20.88S 176.89W 0 4.2,3.9s
¶17207236

IDC Error ellipse: s-maj=148.0km s-min=29.1km az=155.0.
IDC VI 30 19 34 44.4–14 17.26S 178.69W 477–165 4.1,3.5
¶17207270

IDC Error ellipse: s-maj=102.5km s-min=44.3km az=167.0.

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ISC I 09 06 44 33.7–1.2 15.9S–.30 178.6E–.20 17 4.0b,3.6s 18 10-148

IDC I 09 06 44 30.9–1.2 15.91S 178.59E 0 4.3,4.1 ¶15930156
ISCJB I 09 06 44 32.2–1.0 16.0S–.30 178.6E–.20 17 3.9b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC I 14 08 27 02.3–55 16.81S 179.19E 0 4.2,4.0
¶17190146
IDC Error ellipse: s-maj=985.7km s-min=148.0km az=76.0.
IDC I 17 02 24 26.5–4.1 16.38S 179.29E 0 4.2s,4.2
¶17190363
IDC Error ellipse: s-maj=180.3km s-min=35.4km az=139.0.
IDC I 22 14 06 57.0–58 18.25S 179.46E 0 4.2,4.0
¶17190748
IDC Error ellipse: s-maj=1049.0km s-min=141.4km az=79.0.
IDC I 28 18 18 26.4–11 18.76S 179.20E 0 3.9,3.6
¶17191205
IDC Error ellipse: s-maj=350.1km s-min=83.4km az=134.0.
IDC II 13 09 47 56.6–3.0 16.15S 177.68E 0 4.1s,4.1
¶17192147
IDC Error ellipse: s-maj=178.8km s-min=26.2km az=150.0.
ISC III 03 16 26 20.9–.81 16.0S–.20 178.0E–.10 26 3.9b,3.9s 11 10-145
IDC III 03 16 26 17.2–1.4 15.79S 177.93E 0 4.3,4.0 ¶17193197
ISCJB III 03 16 26 19.5–.67 16.0S–.20 178.0E–.10 26 3.9b,3.8s
GCMT III 03 16 26 32.0–.40 15.97S 178.10E 22–1 4.9W,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=78.0km s-min=20.4km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=28.5km s-min=14.5km az=163.7.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c22; s56,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.75±.23 $M_{\theta\theta}$-0.26±.13; $M_{\phi\phi}$2.01±.15; $M_{r\theta}$1.53±.26; $M_{\theta\phi}$0.98±.07; $M_{\phi r}$-0.32±.20; Best double couple: NP1:ϕ_s231.00000°,δ58.00000°,λ-48.00000°. NP2:ϕ_s351.00000°,δ51.00000°,λ-137.00000°. Principal axes: T 2.3900,Plg4.0000°,Azm292.0000°; N 0.4500,Plg35.0000°,Azm25.0000°; P -2.8380,Plg55.0000°,Azm197.0000° $M_0$2.61400×10^{16}
IDC III 08 02 49 08.3–1.5 17.00S 178.60E 0 4.4,4.3
¶17193447
IDC Error ellipse: s-maj=118.2km s-min=24.2km az=156.0.
IDC III 17 13 21 39.4–77 15.74S 177.29E 0 4.4,4.2
¶17196729
IDC Error ellipse: s-maj=1359.0km s-min=157.5km az=73.0.
ISC III 30 02 44 35.5–1.2 16.2S–.40 177.9E–.30 26 4.1b,3.7s 11 10-145
IDC III 30 02 44 31.4–1.3 16.14S 177.87E 0 4.4,4.1 ¶16413010
ISCJB III 30 02 44 34.1–1.1 16.2S–.40 177.8E–.30 26 4.0b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 04 14 24 58.1–61 16.87S 179.64E 0 4.5,4.3
¶17199779
IDC Error ellipse: s-maj=1100.0km s-min=142.7km az=77.0.
IDC IV 05 04 18 44.4–9.3 18.31S 177.59E 0 4.5s,4.5
¶17199846
IDC Error ellipse: s-maj=419.3km s-min=37.5km az=145.0.
IDC IV 16 06 21 24.8–7.0 18.57S 177.62E 588–66 4.7,3.8
¶17201194
IDC Error ellipse: s-maj=81.3km s-min=62.6km az=148.0.
IDC V 11 14 27 33.6–3.7 18.63S 179.64E 0 4.2,3.9
¶17203399
IDC Error ellipse: s-maj=265.1km s-min=33.1km az=154.0.
IDC V 17 21 25 47.5–53 17.21S 179.31E 0 4.5,4.3
¶17203840
IDC Error ellipse: s-maj=963.5km s-min=143.5km az=77.0.
IDC V 20 03 16 40.0–2.8 18.47S 179.95E 0 3.9,3.5
¶17204009
IDC Error ellipse: s-maj=324.5km s-min=31.8km az=160.0.
IDC V 24 23 45 18.5–4.9 18.68S 177.07E 0 4.4,4.2b
¶16545197
IDC Error ellipse: s-maj=223.7km s-min=41.0km az=148.0.
IDC V 28 12 12 27.2–8.9 16.92S 178.94E 0 4.1,3.9
¶17204626
IDC Error ellipse: s-maj=206.5km s-min=39.8km az=32.0.
IDC V 30 09 16 15.4–51 17.35S 179.62E 0 4.0,3.9
¶17204747
IDC Error ellipse: s-maj=923.2km s-min=144.7km az=77.0.
IDC VI 10 01 14 11.5–1.6 15.73S 177.62E 0 4.3,3.9
¶17205674
IDC Error ellipse: s-maj=111.6km s-min=23.8km az=148.0.

SEISMIC REGION 14.
Vanuatu (New Hebrides).

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IDC I 20 14 20 06.7–2.8 8.11S 164.43E 0 4.2L,3.9
¶17190624
IDC Error ellipse: s-maj=132.8km s-min=28.6km az=139.0.
ISC II 10 01 46 02.9–1.1 10.9S–.10 164.1E–.20 29 3.7b 8 11-92
IDC II 10 01 45 58.4–1.4 10.81S 164.13E 0 4.2L,4.0 ¶17191986
ISCJB II 10 01 46 01.1–.99 10.92S–.08 164.1E–.20 29 3.7b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC II 11 03 35 23.1–3.7 11.21S 169.29E 0 4.5,4.2
¶17192047
IDC Error ellipse: s-maj=147.1km s-min=33.4km az=139.0.
ISC II 16 17 53 41.2–1.1 10.8S–.10 164.7E–.10 29 3.7b 10 5-95
ISCJB II 16 17 53 39.3–.99 10.88S–.08 164.57E–.09 29 3.8b,3.3s ¶17192378
IDC II 16 17 53 48.5–3.2 10.76S 164.31E 92–27 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=9.0km az=140.4.
IDC Error ellipse: s-maj=23.9km s-min=21.6km az=87.0.
ISC II 26 02 10 24.5–.26 10.60S–.03 164.95E–.03 53–1 5.4b,5.3s 737 5-163
ISCJB II 26 02 10 22.7–.11 10.64S–.02 164.88E–.02 49 5.4b,5.3s ¶16159037
BJI II 26 02 10 23.6 10.21S 165.04E 49 5.5s,5.3
GCMT II 26 02 10 24.2–.10 10.58S 164.78E 59–0 5.9W,5.3
NEIC II 26 02 10 24.2–.13 10.62S 164.90E 49 5.9W,5.6b
MOS II 26 02 10 25.0–1.1 10.56S 164.79E 66 5.6b,5.3s
IDC II 26 02 10 26.2–1.8 10.65S 164.92E 71–14 5.1s,5.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=3.0km az=138.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c267; s133,c380;Duration: 2$\hat{s}$2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13±.01 $M_{\theta\theta}$0.78±.01; $M_{\phi\phi}$-0.90±.01; $M_{r\theta}$-0.15±.01; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$-0.12±.01; Best double couple: NP1: ϕ_s213.00000°,δ84.00000°,λ168.00000°. NP2:ϕ_s304.00000°,δ78.00000°,λ6.00000°. Principal axes: T 0.8860,Plg13.0000°,Azm168.0000°; N 0.0940,Plg76.0000°,Azm8.0000°; P -0.9800,Plg4.0000°,Azm259.0000° $M_0$0.93300×10^{18}
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.7km az=130.0. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}0.22 $M_{\theta\theta}$0.87 $M_{\phi\phi}$-1.09 $M_{r\theta}$-0.12 $M_{\theta\phi}$0.20 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s219.00000°,δ83.00000°,λ174.00000°. NP2:ϕ_s310.00000°,δ84.00000°,λ7.00000°. Principal axes: T 0.9100,Plg10.0000°,Azm174.0000°; N 0.2000,Plg80.0000°,Azm351.0000°; P -1.1100,Plg1.0000°,Azm84.0000° $M_0$1.00000×10^{18}
MOS Error ellipse: s-maj=7.1km s-min=6.3km az=90.4.
IDC Error ellipse: s-maj=9.3km s-min=8.3km az=134.0.
ISC III 18 03 14 30.4–3.8 11.1S–.40 164.3E–.30 29 3.8b 7 5-84
IDC III 18 03 14 28.0–1.4 11.58S 164.47E 0 5.4L,4.1 ¶17196924
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=29.8km az=155.0.
ISC III 29 13 17 49.2–.46 10.66S–.08 164.88E–.07 46 4.7s,4.6b 68 5-149
IDC III 29 13 17 40.7–1.1 11.01S 165.11E 0 5.3L,4.3 ¶16392142
ISCJB III 29 13 17 47.6–.34 10.61S–.07 164.90E–.05 46 4.5s,4.4b
NEIC III 29 13 17 49.0–1.1 10.62S 164.96E 46–10 4.7b,4.4b
BJI III 29 13 17 54.0 10.20S 164.58E 65 5.2b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=33.4km s-min=18.8km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.5km az=11.1.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.7km az=216.0.
ISC IV 06 06 27 08.1–.84 10.9S–.10 164.6E–.10 29 4.2b,3.4s 13 5-163
ISCJB IV 06 06 27 06.5–.75 10.94S–.10 164.55E–.09 29 4.0b,3.4s ¶17199975
IDC IV 06 06 27 12.0–3.5 11.17S 164.40E 69–31 4.5L,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=10.5km az=36.5.
IDC Error ellipse: s-maj=32.3km s-min=26.4km az=99.0.
IDC IV 08 20 21 31.5–2.2 12.05S 171.46E 0 4.0,3.8
¶17200280
IDC Error ellipse: s-maj=101.4km s-min=27.4km az=134.0.
ISC IV 14 01 23 55.9–.99 10.7S–.10 165.0E–.10 35 3.8b,3.6s 11 5-93
IDC IV 14 01 23 50.7–1.1 10.66S 164.95E 0 4.5L,4.2 ¶17200974
ISCJB IV 14 01 23 54.1–.85 10.8S–.10 164.96E–.09 35 3.8b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 01 18 51.8–.65 12.8S–.10 169.2E–.10 650 4.0b 27 10-153
ISCJB IV 26 01 18 50.4–.57 12.7S–.10 169.3E–.10 650 3.8b ¶17202098
IDC IV 26 01 18 52.1–1.3 12.80S 169.16E 653–16 4.5,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=12.4km az=34.6.
IDC Error ellipse: s-maj=16.5km s-min=10.5km az=135.0.
IDC IV 26 08 18 40.4–1.7 12.81S 172.70E 0 4.4,4.2
¶17202115
IDC Error ellipse: s-maj=60.8km s-min=21.7km az=137.0.
ISC V 30 11 33 53.8–1.1 11.0S–.10 164.2E–.10 29 3.9b 11 4-92
IDC V 30 11 33 48.8–1.3 10.82S 164.33E 0 4.0,3.9 ¶17204757
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=28.1km az=86.0.

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ISC I 01 06 13 39.6–.94 11.00S–.10 165.39E–.10 30 3.9b,3.4s 12 6-96
IDC I 01 06 13 34.9–1.1 10.94S 165.44E 0 4.3,4.3L ¶15961487
NEIC I 01 06 13 36.7–.84 10.87S 165.52E 10 4.6b,4.3L
ISCJB I 01 06 13 37.8–.74 11.11S–.07 165.32E–.08 30 4.0b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 03 23 10 19.0–1.7 10.70S 165.06E 0 4.2L,4.0
¶17189370
IDC Error ellipse: s-maj=49.8km s-min=28.4km az=127.0.
ISC I 06 16 18 30.0–.35 12.16S–.06 167.13E–.07 220 4.9b 388 8-166
ISCJB I 06 16 18 29.0–.14 12.22S–.03 167.05E–.03 220 4.8b ¶15908151
MOS I 06 16 18 31.0–1.1 12.14S 167.06E 232 4.9b
IDC I 06 16 18 32.0–1.5 12.22S 167.18E 236–13 4.9,4.5
BJI I 06 16 18 33.9 11.83S 166.96E 246 5.0b,4.7b
NEIC I 06 16 18 34.3–1.0 12.24S 167.03E 260–10 5.0b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=4.1km az=35.9.
MOS Error ellipse: s-maj=11.2km s-min=9.6km az=78.5.
IDC Error ellipse: s-maj=11.1km s-min=10.1km az=121.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.0km az=75.0.
IDC I 10 02 32 16.4–12 12.58S 167.27E 152–102 3.8,3.7
¶17189807
IDC Error ellipse: s-maj=112.7km s-min=39.0km az=139.0.
IDC I 11 14 23 33.4–2.5 11.03S 167.15E 0 3.9,3.8
¶17189923
IDC Error ellipse: s-maj=83.4km s-min=32.2km az=142.0.
IDC I 12 16 24 10.3–5.3 12.69S 167.38E 0 3.8,3.5
¶17190002
IDC Error ellipse: s-maj=264.6km s-min=32.1km az=141.0.
IDC I 14 22 28 05.2–2.5 10.92S 165.50E 0 4.3,4.0b
¶17190218
IDC Error ellipse: s-maj=121.7km s-min=33.6km az=131.0.
ISC I 15 12 03 45.1–1.4 12.6S–.20 165.9E–.20 35 3.8b 7 7-118
ISCJB I 15 12 03 44.0–1.4 12.7S–.20 165.7E–.20 33 3.8b ¶17190245
IDC I 15 12 03 50.1–8.4 12.52S 165.58E 73–62 4.5L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.5km s-min=25.8km az=36.0.
IDC Error ellipse: s-maj=78.0km s-min=29.0km az=117.0.
ISC I 19 16 24 06.3–.50 11.19S–.09 166.47E–.10 146 3.9b 41 7-165
ISCJB I 19 16 24 04.8–.51 11.20S–.08 166.42E–.09 146 4.0b ¶16009135
IDC I 19 16 24 06.9–.80 11.22S 166.43E 151–6 4.3,4.0
NEIC I 19 16 24 07.0–.31 11.18S 166.43E 154 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=10.7km az=177.5.
IDC Error ellipse: s-maj=15.2km s-min=12.5km az=103.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.7km az=99.0.
ISC I 20 21 01 55.7–1.1 11.6S–.20 166.3E–.20 35 3.9b,3.4s 13 7-94
IDC I 20 21 01 49.9–2.5 11.72S 166.43E 0 4.0,3.8b ¶16057186
ISCJB I 20 21 01 54.3–.94 11.6S–.10 166.2E–.10 35 4.0b,3.7s
NEIC I 20 21 01 55.8–.68 11.64S 166.28E 35 4.0b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=85.6km s-min=29.5km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=17.3km az=39.6.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=12.6km az=124.0.
IDC I 26 08 19 57.1–1.8 12.92S 166.48E 0 3.7,3.7L
¶17191020
IDC Error ellipse: s-maj=45.6km s-min=30.3km az=112.0.
ISC I 26 17 03 30.2–.26 11.04S–.03 166.36E–.03 153–1 5.5b 1372 7-170
IDC I 26 17 03 30.0–.46 11.04S 166.32E 150–3 5.5,5.3 ¶601990116
ISCJB I 26 17 03 30.3–.64 11.06S–.02 166.30E–.02 164–5 5.4b,5.3
MOS I 26 17 03 30.3–1.0 10.86S 166.24E 156 5.6b,5.3
GCMT I 26 17 03 30.1–.10 11.00S 166.25E 157–0 5.8W,5.3
NEIC I 26 17 03 30.1–.08 11.01S 166.30E 148 5.8b,5.3
BJI I 26 17 03 31.3 10.46S 166.31E 157 5.4b,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=8.2km s-min=6.8km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.7km az=167.8.
MOS Error ellipse: s-maj=6.6km s-min=5.8km az=86.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c229; s125,c353;Duration: 1$\hat{s}$8 Moment tensor: Scale 10^{17}Nm; M_{rr}4.07±.05 $M_{\theta\theta}$-1.41±.06; $M_{\phi\phi}$-2.66±.06; $M_{r\theta}$-0.66±.04; $M_{\theta\phi}$2.41±.06; $M_{\phi r}$-3.04±.04; Best double couple: NP1: ϕ_s167.00000°,δ63.00000°,λ116.00000°. NP2:ϕ_s301.00000°,δ37.00000°,λ50.00000°. Principal axes: T 5.5740,Plg63.0000°,Azm119.0000°; N -0.5510,Plg22.0000°,Azm334.0000°; P -5.0220,Plg14.0000°,Azm238.0000° $M_0$5.29800×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.5km az=134.0.
ISC I 27 04 00 35.3–.43 11.63S–.04 166.40E–.04 66–3 5.2b 479 7-170
ISCJB I 27 04 00 33.6–.94 11.65S–.03 166.31E–.03 61–8 5.2b ¶16019266
MOS I 27 04 00 34.6–1.0 11.62S 166.30E 71 5.3b,4.6s
BJI I 27 04 00 35.2 11.27S 166.31E 64 5.4b,5.2b
NEIC I 27 04 00 37.0–.90 11.66S 166.36E 83–8 5.3b,5.2b
IDC I 27 04 00 36.8–1.9 11.67S 166.41E 81–16 4.9,4.7
GCMT I 27 04 00 37.0–.10 11.68S 166.11E 56–0 5.5W,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=4.3km az=165.0.
MOS Error ellipse: s-maj=8.3km s-min=7.7km az=125.5.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.1km az=107.0.
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=121.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s118,c211; s106,c196; Duration: 1$\hat{s}$4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.06±.03 $M_{\theta\theta}$-0.04±.02; $M_{\phi\phi}$-2.02±.02; $M_{r\theta}$-0.07±.02; $M_{\theta\phi}$0.47±.03; $M_{\phi r}$0.72±.02; Best double couple: NP1:ϕ_s350.00000°,δ55.00000°,λ93.00000°. NP2:ϕ_s165.00000°,δ36.00000°,λ86.00000°. Principal axes: T 2.1840,Plg80.0000°,Azm272.0000°; N 0.0640,Plg2.0000°,Azm168.0000°; P -2.2470,Plg9.0000°,Azm78.0000° $M_0$2.21500×10^{17}
ISC I 27 11 19 12.1–.82 12.4S–.10 166.8E–.10 100 4.1b 13 7-118
ISCJB I 27 11 19 10.9–.73 12.44S–.10 166.69E–.09 100 4.1b ¶17191102
IDC I 27 11 19 12.8–3.2 12.42S 166.70E 106–28 4.3,4.2
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=11.0km az=30.4.
IDC Error ellipse: s-maj=23.7km s-min=20.5km az=122.0.
IDC I 29 11 07 28.5–7.9 11.97S 166.73E 290–90 4.1,3.6
¶17191253

IDC Error ellipse: s-maj=75.1km s-min=23.6km az=162.0.
IDC I 30 11 14 32.2–4.4 12.10S 167.00E 0 3.8s,3.8
¶17191319

IDC Error ellipse: s-maj=197.5km s-min=31.4km az=139.0.
IDC I 30 15 04 08.0–2.5 11.03S 166.62E 0 3.8,3.6
¶17191331

IDC Error ellipse: s-maj=123.1km s-min=29.8km az=134.0.
ISC II 03 02 38 24.2–.87 10.75S–.09 166.4E–.20 150 4.2b 17 11-116
ISCJB II 03 02 38 23.3–.78 10.74S–.07 166.2E–.10 150 4.0b **¶16024683**
IDC II 03 02 38 27.4–5.5 10.86S 166.32E 180–54 4.2,3.9
NEIC II 03 02 38 28.3–3.5 10.82S 166.28E 189–34 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=9.7km az=179.6.
IDC Error ellipse: s-maj=34.1km s-min=22.2km az=152.0.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=15.9km az=158.0.
IDC II 04 16 50 22.0–2.9 12.07S 166.94E 0 4.3s,4.3
¶17191675

IDC Error ellipse: s-maj=110.0km s-min=38.7km az=136.0.
IDC II 05 08 16 16.4–1.7 11.01S 166.15E 0 3.9,3.7
¶17191724

IDC Error ellipse: s-maj=55.9km s-min=30.6km az=127.0.
ISC II 08 19 32 42.5–.98 10.84S–.10 165.8E–.20 30 3.8b 14 6-93
ISCJB II 08 19 32 40.8–.74 10.92S–.07 165.7E–.10 30 3.8b,2.9s **¶16328781**
NEIC II 08 19 32 43.6–2.1 10.85S 165.75E 39–18 4.5b,2.9s
IDC II 08 19 32 44.5–3.6 10.93S 165.71E 49–33 4.4L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=9.2km az=168.0.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=15.6km az=61.0.
IDC Error ellipse: s-maj=32.9km s-min=27.8km az=79.0.
ISC II 11 23 10 27.3–.87 12.84S–.08 166.8E–.10 150 3.9b 15 8-149
IDC II 11 23 10 25.4–2.9 12.80S 166.88E 125–24 4.1,3.8 **¶17192094**
ISCJB II 11 23 10 26.8–.65 12.88S–.06 166.72E–.09 150 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 13 03 00 30.0–.81 12.3S–.20 167.0E–.20 220 3.9b 12 21-152
IDC II 13 03 00 25.0–10 12.19S 167.00E 170–96 4.0,3.8 **¶17192135**
ISCJB II 13 03 00 28.7–.77 12.4S–.20 167.0E–.20 220 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC II 14 16 33 33.1–1.8 12.98S 167.26E 0 3.9s,3.9
¶17192256

IDC Error ellipse: s-maj=82.8km s-min=27.4km az=135.0.
IDC II 17 16 13 57.5–12 12.16S 167.29E 260–118 3.9,3.5
¶17192432

IDC Error ellipse: s-maj=47.6km s-min=31.5km az=104.0.
IDC II 21 01 11 16.0–10 12.83S 166.79E 226–116 3.6,3.2
¶17192612

IDC Error ellipse: s-maj=112.6km s-min=30.1km az=160.0.
ISC II 25 10 26 15.0–.90 11.7S–.10 166.0E–.10 30 3.8b 12 6-95
ISCJB II 25 10 26 13.4–.76 11.72S–.07 165.87E–.09 30 3.9b,3.5s **¶17192831**
IDC II 25 10 26 15.6–3.8 11.95S 165.87E 41–32 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=9.1km az=149.4.
IDC Error ellipse: s-maj=29.1km s-min=22.9km az=61.0.
ISC II 26 18 41 06.2–.84 12.89S–.08 167.1E–.20 180 3.8b 17 9-152
ISCJB II 26 18 41 05.1–.96 13.0S–.10 167.0E–.20 180 3.8b **¶17192917**
IDC II 26 18 41 09.8–4.1 13.11S 167.09E 215–39 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.5km s-min=14.7km az=4.9.
IDC Error ellipse: s-maj=23.6km s-min=21.0km az=20.0.
IDC II 27 04 55 03.8–1.6 12.61S 166.29E 0 3.9,3.8
¶17192934

IDC Error ellipse: s-maj=51.1km s-min=31.5km az=112.0.
IDC II 28 17 26 15.1–8.8 11.79S 166.68E 300–101 3.7,3.3
¶17193010

IDC Error ellipse: s-maj=75.3km s-min=28.5km az=153.0.
ISC II 28 22 08 01.8–1.2 12.12S–.10 166.6E–.20 83 4.0b 9 10-95
ISCJB II 28 22 08 00.3–1.1 12.19S–.08 166.6E–.20 83 3.9b **¶17193022**
IDC II 28 22 08 03.9–7.7 12.21S 166.64E 106–79 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.9km s-min=11.2km az=175.6.
IDC Error ellipse: s-maj=57.5km s-min=27.0km az=151.0.
ISC III 03 01 13 35.0–.82 11.0S–.10 166.60E–.09 146 4.2b 23 7-95
ISCJB III 03 01 13 33.8–.71 11.0S–.10 166.50E–.10 146 4.1b **¶16342399**
IDC III 03 01 13 36.7–4.1 11.00S 166.38E 156–35 4.3,4.0
NEIC III 03 01 13 37.8–2.2 10.98S 166.39E 167–18 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=13.3km az=169.9.
IDC Error ellipse: s-maj=27.5km s-min=19.1km az=104.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.9km az=103.0.
IDC III 07 13 37 40.1–14 12.67S 166.78E 127–127 3.8,3.7
¶17193416

IDC Error ellipse: s-maj=68.0km s-min=42.0km az=131.0.
IDC III 09 19 15 07.5–2.1 11.57S 166.34E 0 5.0L,4.1
¶17193573

IDC Error ellipse: s-maj=55.6km s-min=32.7km az=155.0.
ISC III 14 11 34 25.3–.65 10.7S–.10 165.35E–.09 31 4.4b,4.1s 28 5-150
IDC III 14 11 34 20.6–.89 10.72S 165.32E 0 5.2L,4.4 **¶16477841**
ISCJB III 14 11 34 23.7–.52 10.69S–.09 165.28E–.07 31 4.3b,4.1s
NEIC III 14 11 34 28.7–2.5 10.65S 165.17E 56–20 4.7b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=27.4km s-min=16.5km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=9.7km az=164.6.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=10.5km az=107.0.
ISC III 20 13 46 46.9–.43 12.30S–.05 167.12E–.04 259–3 4.8b 621 8-166
BJI III 20 13 46 45.9 11.86S 167.15E 245 4.8b,4.7b **¶16462025**
MOS III 20 13 46 45.6–1.0 12.16S 167.08E 251 5.0b,4.7b
IDC III 20 13 46 46.0–1.2 12.30S 167.19E 247–10 4.9,4.4
NEIC III 20 13 46 46.6–.57 12.27S 167.11E 255–5 4.9b,4.4
ISCJB III 20 13 46 47.1–.79 12.34S–.03 167.09E–.03 272–7 4.8b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 23 08 06 34.2–4.2 11.78S 166.86E 0 4.1,4.0b
¶17198151

IDC Error ellipse: s-maj=145.0km s-min=39.1km az=142.0.
ISC III 24 11 25 28.6–1.3 11.6S–.20 166.6E–.20 59 4.0b 9 21-95
IDC III 24 11 25 20.3–1.4 11.58S 166.67E 0 4.1,4.0 **¶17198336**
ISCJB III 24 11 25 26.9–1.2 11.7S–.20 166.6E–.20 59 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 25 17 17 39.7–1.8 12.66S 167.39E 0 4.0,3.8
¶17198533

IDC Error ellipse: s-maj=81.7km s-min=24.0km az=147.0.
IDC III 28 14 50 24.9–17 12.68S 167.47E 195–163 3.9,3.7
¶17198961

IDC Error ellipse: s-maj=134.5km s-min=48.4km az=145.0.
IDC IV 05 16 04 41.1–4.7 12.95S 167.61E 0 4.0,3.7
¶17199913

IDC Error ellipse: s-maj=232.5km s-min=31.8km az=141.0.
IDC IV 06 18 24 52.2–63 11.87S 167.11E 0 3.7,3.5
¶17200036

IDC Error ellipse: s-maj=1078.0km s-min=113.1km az=61.0.
IDC IV 09 07 05 49.7–2.4 12.26S 167.67E 0 4.3,4.1b
¶17200313

IDC Error ellipse: s-maj=103.0km s-min=23.7km az=144.0.
ISC IV 10 11 02 48.8–.66 10.91S–.10 166.2E–.20 61 4.0b 15 11-116

ISCJB IV 10 11 02 47.4–.54 10.99S–.07 166.2E–.10 61 4.0b **¶17200454**
IDC IV 10 11 02 57.4–7.0 11.01S 166.06E 139–66 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=9.6km az=5.3.
IDC Error ellipse: s-maj=34.0km s-min=20.1km az=178.0.
ISC IV 13 01 51 40.6–.30 12.55S–.06 166.48E–.06 59 5.0b,4.2s 269 7-170
ISCJB IV 13 01 51 38.9–.21 12.62S–.03 166.48E–.04 59 4.9b,4.1s **¶16505354**
IDC IV 13 01 51 40.7–2.5 12.61S 166.52E 62–21 4.6,4.5
MOS IV 13 01 51 40.6–1.0 12.58S 166.39E 71 5.1b,4.5
NEIC IV 13 01 51 42.6–.86 12.62S 166.47E 81–7 4.9b,4.5
GCMT IV 13 01 51 42.6–.30 12.63S 166.17E 40–0 5.0W,4.5
BJI IV 13 01 51 43.5 11.98S 166.57E 80 5.2b,5.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.4km az=170.5.
IDC Error ellipse: s-maj=13.9km s-min=11.2km az=73.0.
MOS Error ellipse: s-maj=9.7km s-min=8.1km az=36.1.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.8km az=52.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c73; s60,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.37±.19 $M_{\theta\theta}$-0.20±.15; $M_{\phi\phi}$-4.17±.12; $M_{r\theta}$-0.38±.15; $M_{\theta\phi}$1.71±.12; $M_{\phi r}$-0.19±.13; Best double couple: NP1:ϕ_s166.00000°,δ46.00000°,λ98.00000°. NP2:ϕ_s334.00000°,δ45.00000°,λ81.00000°. Principal axes: T 4.4140,Plg84.0000°,Azm157.0000°; N 0.3880,Plg6.0000°,Azm340.0000°; P -4.8060,Plg0.0000°,Azm250.0000° M_o4.61000×10^{16}
IDC IV 16 03 08 41.7–2.1 12.83S 167.59E 0 4.0,3.8
¶17201189

IDC Error ellipse: s-maj=104.2km s-min=26.0km az=136.0.
IDC IV 16 14 17 34.5–4.1 12.66S 167.65E 0 3.8,3.5
¶17201232

IDC Error ellipse: s-maj=229.4km s-min=31.9km az=142.0.
ISC IV 20 06 51 01.1–1.1 12.56S–.09 166.7E–.20 150 3.7b 10 9-118
ISCJB IV 20 06 50 59.9–1.1 12.55S–.08 166.6E–.20 150 3.6b **¶17201599**
IDC IV 20 06 51 00.3–6.8 12.52S 166.65E 142–70 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.2km s-min=10.8km az=175.5.
IDC Error ellipse: s-maj=52.0km s-min=27.9km az=147.0.
ISC IV 26 08 12 13.7–.65 11.95S–.09 165.36E–.10 35 4.3b,3.5s 29 6-97
IDC IV 26 08 12 08.3–.90 11.94S 165.36E 0 4.9L,4.4 **¶16577897**
ISCJB IV 26 08 12 11.9–.46 11.99S–.07 165.28E–.07 33 4.3b,3.4s
NEIC IV 26 08 12 12.4–4.0 11.95S 165.39E 25–28 4.6b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=19.1km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=8.5km az=139.7.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=9.6km az=67.0.
ISC IV 30 09 10 53.1–.62 12.11S–.08 166.52E–.09 83 4.4b 26 7-165
ISCJB IV 30 09 10 51.5–.59 12.10S–.09 166.48E–.08 83 4.3b **¶16587546**
IDC IV 30 09 10 52.0–3.4 12.01S 166.59E 74–28 4.5,4.3
NEIC IV 30 09 10 53.3–1.0 12.05S 166.58E 86–9 4.8b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=8.2km az=36.8.
IDC Error ellipse: s-maj=24.6km s-min=17.1km az=69.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.5km az=218.0.
ISC IV 30 12 04 50.2–.63 12.26S–.07 166.42E–.09 83 4.3b 48 7-123
BJI IV 30 12 04 43.7 12.10S 166.50E 35 5.0b,4.7b **¶16485921**
NEIC IV 30 12 04 43.6–.45 11.99S 166.72E 35 4.7b,4.7b
ISCJB IV 30 12 04 48.7–.51 12.26S–.05 166.38E–.08 83 4.3b,4.7b
IDC IV 30 12 04 48.3–3.4 12.10S 166.62E 75–30 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.4km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=7.0km az=161.0.
IDC Error ellipse: s-maj=22.4km s-min=18.9km az=84.0.
ISC V 01 23 56 09.7–1.6 12.6S–.50 167.2E–.10 10 4.4b 10 12-118
IDC V 01 23 56 08.6–4.5 12.47S 167.18E 0 4.4,4.2b **¶16577947**
NEIC V 01 23 56 09.6–.86 12.60S 167.19E 10 4.3b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=187.1km s-min=81.5km az=158.0.
NEIC Event type se. Error ellipse: s-maj=35.5km s-min=9.7km az=179.0.
ISC V 02 08 59 30.2–.86 12.8S–.10 167.1E–.20 300 3.5b 8 9-96
ISCJB V 02 08 59 28.9–.78 12.8S–.10 167.1E–.10 300 3.5b **¶17202601**
IDC V 02 08 59 32.1–6.1 12.97S 167.07E 323–68 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=16.1km az=135.8.
IDC Error ellipse: s-maj=50.8km s-min=16.6km az=173.0.
ISC V 05 06 50 26.3–.77 12.1S–.10 166.5E–.20 83 4.2b 16 7-165
NEIC V 05 06 50 21.5–.62 11.76S 166.48E 35 4.4b **¶16591768**
IDC V 05 06 50 23.7–7.0 11.88S 166.50E 55–66 4.2,4.2
ISCJB V 05 06 50 25.1–.74 12.1S–.10 166.5E–.10 83 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 13 15 55 46.0–.25 11.51S–.04 165.49E–.04 24 5.2b,4.5s 531 6-169
IDC V 13 15 55 42.0–.40 11.47S 165.58E 0 5.0,4.9 **¶16560053**
ISCJB V 13 15 55 44.3–.12 11.52S–.02 165.51E–.02 24 5.2b,4.5s
GCMT V 13 15 55 46.7–.10 11.55S 165.38E 12 5.3W,4.5s
NEIC V 13 15 55 46.7–1.6 11.49S 165.54E 30–3 5.2b,4.5s
MOS V 13 15 55 46.1–1.1 11.43S 165.46E 33 5.3b,4.5s
BJI V 13 15 55 48.5 11.50S 165.40E 50 5.4b,5.0b
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=148.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c146; s109,c219; Duration: 1$\dagger$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.03±.01 $M_{\theta\theta}$0.01±.01; $M_{\phi\phi}$1.02±.01; $M_{r\theta}$-0.19±.04; $M_{\theta\phi}$-0.27±.01; $M_{\phi r}$-0.01±.03; Best double couple: NP1:ϕ_s156.00000°,δ47.00000°,λ-104.00000°. NP2:ϕ_s356.00000°,δ45.00000°,λ-75.00000°. Principal axes: T 1.0860,Plg1.0000°,Azm256.0000°; N -0.0230,Plg10.0000°,Azm166.0000°; P -1.0650,Plg80.0000°,Azm352.0000° M_o1.07600×10^{17}
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=3.5km az=205.0.
MOS Error ellipse: s-maj=8.3km s-min=8.0km az=36.5.
ISC V 13 16 50 34.1–.54 11.50S–.09 165.59E–.07 24 4.5b 53 6-117
IDC V 13 16 50 30.3–1.0 11.54S 165.69E 0 4.3L,4.2 **¶16709790**
NEIC V 13 16 50 31.3–4.7 11.54S 165.69E 7–29 4.8b,4.2
ISCJB V 13 16 50 32.3–.38 11.60S–.07 165.64E–.06 24 4.5b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 13 19 15 36.8–.47 11.53S–.10 165.62E–.07 24 4.5b 61 6-164
IDC V 13 19 15 33.2–.71 11.57S 165.66E 0 4.4L,4.3 **¶16709798**
ISCJB V 13 19 15 35.4–.33 11.53S–.06 165.53E–.05 24 4.7b,4.3
NEIC V 13 19 15 38.7–.25 11.51S 165.61E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=20.4km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=7.5km az=0.8.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.9km az=133.0.
IDC V 15 09 13 20.1–3.0 11.35S 165.54E 0 4.1,4.1L
¶17203682

IDC Error ellipse: s-maj=58.6km s-min=37.8km az=68.0.
IDC V 16 02 05 44.2–1.7 11.49S 165.41E 0 4.1,4.0L
¶17203717

IDC Error ellipse: s-maj=51.0km s-min=31.0km az=123.0.
IDC V 16 02 08 30.6–1.6 11.58S 165.45E 0 4.1,4.1L
¶17203718

IDC Error ellipse: s-maj=47.3km s-min=29.6km az=123.0.
ISC V 16 02 14 12.3–.45 11.55S–.08 165.40E–.07 24 4.8b,4.2s 68 6-150
IDC V 16 02 14 07.8–.78 11.50S 165.52E 0 4.5,4.4 **¶16524511**
ISCJB V 16 02 14 10.4–.32 11.58S–.06 165.34E–.06 24 4.6b,4.3s
GCMT V 16 02 14 14.2–.30 11.63S 165.35E 18–1 5.0W,4.3s
NEIC V 16 02 14 14.2–1.0 11.55S 165.36E 40–9 4.8b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=16.0km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=7.4km az=44.7.

GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c28; s89,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.96±.24 $M_{\theta\theta}$0.81±.15; $M_{\phi\phi}$3.15±.17; $M_{r\theta}$-1.15±.47; $M_{\theta\phi}$-0.71±.10; $M_{\phi r}$0.34±.37; Best double couple: NP1:ϕ_s152.00000°,δ51.00000° ,λ-105.00000°. NP2:ϕ_s355.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 3.4060,Plg5.0000°,Azm252.0000°; N 0.8230,Plg12.0000°,Azm161.0000° ; P -4.2270,Plg77.0000°,Azm6.0000° $M_0$3.81700×10^{16}

NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=161.0.

IDC	**V**	**16 02 18 02.2–1.6**	**11.48S**	**165.51E**	**0**	**4.1,4.1L**			
									¶17203719

IDC Error ellipse: s-maj=51.7km s-min=30.0km az=125.0.

ISC	**V**	**16 02 20 01.0–.39**	**11.49S–.07**	**165.35E–.07**	**24**	**5.0b,4.5s**	**177**	**6-151**	
IDC	V	16 02 19 57.2–.60	11.54S	165.48E	0	4.7L,4.6			**¶16516464**
ISCJB	V	16 02 19 59.5–.28	11.55S–.06	165.36E–.05	24	4.9b,4.4s			
MOS	V	16 02 20 01.7–1.6	11.35S	165.10E	33	5.2b,4.4s			
GCMT	V	16 02 20 02.5–.30	11.72S	165.25E	15–1	5.0W,4.4s			
NEIC	V	16 02 20 02.5–.26	11.53S	165.32E	35	5.1b,4.4s			

ISC Event type se.

IDC Error ellipse: s-maj=21.7km s-min=15.1km az=114.0.

ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.3km az=153.6.

MOS Error ellipse: s-maj=9.7km s-min=8.7km az=116.5.

GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c27; s71,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.50±.23 $M_{\theta\theta}$0.34±.16; $M_{\phi\phi}$3.17±.18; $M_{r\theta}$-2.45±.41; $M_{\theta\phi}$-0.14±.10; $M_{\phi r}$1.21±.34; Best double couple: NP1:ϕ_s149.00000°,δ62.00000° ,λ-115.00000°. NP2:ϕ_s13.00000°,δ36.00000°,λ-51.00000°. Principal axes: T 3.5140,Plg14.0000°,Azm256.0000°; N 1.3170,Plg22.0000°,Azm161.0000° ; P -4.8270,Plg64.0000°,Azm17.0000° $M_0$4.17100×10^{16}

NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.3km az=141.0.

ISC	**V**	**16 02 24 12.3–1.2**	**11.6S–.10**	**165.5E–.20**	**24**	**4.1b**	**9**	**10-94**	
IDC	V	16 02 24 08.5–1.6	11.56S	165.48E	0	4.3,4.2L			**¶16709981**
ISCJB	V	16 02 24 10.5–1.1	11.7S–.10	165.5E–.20	24	4.0b,3.2s			

ISC Event type ke.

ISCJB Event type ke.

ISC	**V**	**16 02 25 02.2–.52**	**11.50S–.08**	**165.58E–.09**	**24**	**4.8b,4.4s**	**74**	**6-150**	
IDC	V	16 02 24 58.8–.75	11.48S	165.48E	0	4.5,4.5L			**¶17203720**
ISCJB	V	16 02 25 00.7–.35	11.55S–.06	165.52E–.06	24	4.8b,4.4s			
BJI	V	16 02 25 02.0	11.50S	165.60E	39	5.1b,4.8b			
NEIC	V	16 02 25 05.3–2.5	11.46S	165.49E	45–21	4.9b,4.8b			

ISC Event type se.

IDC Error ellipse: s-maj=23.8km s-min=15.7km az=116.0.

ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.8km az=41.2.

NEIC Event type se. Error ellipse: s-maj=15.5km s-min=10.0km az=120.0.

IDC	**V**	**16 03 23 55.1–1.6**	**11.76S**	**165.70E**	**0**	**4.2,4.0b**			
									¶17203725

IDC Error ellipse: s-maj=70.0km s-min=24.6km az=149.0.

IDC	**V**	**16 06 08 09.2–1.6**	**11.52S**	**165.56E**	**0**	**4.1,3.9**			
									¶17203727

IDC Error ellipse: s-maj=51.0km s-min=32.8km az=112.0.

IDC	**V**	**18 19 22 35.5–2.4**	**11.26S**	**165.25E**	**0**	**4.1,3.9**			
									¶17203904

IDC Error ellipse: s-maj=94.0km s-min=28.2km az=132.0.

ISC	**V**	**18 20 56 56.7–.52**	**12.56S–.07**	**167.1E–.10**	**220**	**4.2b**	**40**	**9-152**	
ISCJB	V	18 20 56 55.4–.48	12.53S–.06	167.0E–.10	220	4.1b			**¶16710222**
IDC	V	18 20 56 59.5–3.7	12.57S	166.92E	241–34	4.4,4.0			
NEIC	V	18 20 56 59.2–1.9	12.52S	166.98E	242–18	4.4b,4.0			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=8.0km az=7.7.

IDC Error ellipse: s-maj=19.1km s-min=16.3km az=102.0.

NEIC Event type se. Error ellipse: s-maj=12.8km s-min=10.5km az=141.0.

IDC	**V**	**19 15 03 19.4–1.8**	**11.55S**	**165.48E**	**0**	**4.1L,4.0**			
									¶17203977

IDC Error ellipse: s-maj=48.1km s-min=31.6km az=119.0.

IDC	**V**	**20 18 12 14.8–3.9**	**11.49S**	**167.85E**	**0**	**3.9,3.8**			
									¶17204064

IDC Error ellipse: s-maj=120.1km s-min=28.4km az=122.0.

IDC	**V**	**22 15 56 14.5–13**	**11.08S**	**165.92E**	**0**	**3.9,3.7b**			
									¶17204234

IDC Error ellipse: s-maj=411.6km s-min=58.3km az=125.0.

ISC	**V**	**22 16 54 04.3–1.2**	**11.6S–.30**	**166.4E–.10**	**59**	**4.0b**	**9**	**7-94**	
IDC	V	22 16 53 55.0–1.6	11.85S	166.67E	0	5.2L,4.4			**¶17204241**
ISCJB	V	22 16 54 03.0–.97	11.6S–.20	166.28E–.09	59	4.1b,4.4			

ISC Event type ke.

ISCJB Event type ke.

IDC	**V**	**26 06 44 45.7–6.0**	**10.76S**	**165.30E**	**0**	**4.0,3.7b**			
									¶17204485

IDC Error ellipse: s-maj=327.2km s-min=31.9km az=139.0.

ISC	**V**	**26 16 36 58.5–.87**	**11.4S–.10**	**165.8E–.10**	**24**	**4.3b**	**15**	**6-94**	
IDC	V	26 16 36 55.3–2.3	11.43S	165.84E	0	3.9L,3.8			**¶16710991**
ISCJB	V	26 16 36 56.1–.79	11.48S–.09	165.8E–.10	24	4.4b,3.3s			
NEIC	V	26 16 36 59.1–4.3	11.44S	165.84E	30–31	4.8b,3.3s			

ISC Event type se.

IDC Error ellipse: s-maj=71.9km s-min=32.5km az=142.0.

ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=13.1km az=155.1.

NEIC Event type se. Error ellipse: s-maj=18.1km s-min=13.7km az=60.0.

ISC	**V**	**27 00 21 05.6–.64**	**11.1S–.10**	**166.29E–.09**	**50**	**4.0b,3.5s**	**18**	**6-125**	
IDC	V	27 00 20 58.0–.86	11.23S	166.41E	0	5.0L,4.1			**¶16553883**
ISCJB	V	27 00 21 04.0–.51	11.13S–.08	166.22E–.07	50	3.9b,3.5s			
NEIC	V	27 00 21 04.5–2.9	11.15S	166.34E	43–24	4.2b,3.5s			

ISC Event type se.

IDC Error ellipse: s-maj=30.5km s-min=21.0km az=142.0.

ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=9.4km az=5.2.

NEIC Event type se. Error ellipse: s-maj=23.6km s-min=13.4km az=116.0.

ISC	**V**	**28 16 47 12.3–.31**	**11.53S–.05**	**165.78E–.05**	**37**	**4.9b,4.4s**	**183**	**6-164**	
IDC	V	28 16 47 06.5–.47	11.48S	165.88E	0	4.5L,4.5			**¶16560164**
ISCJB	V	28 16 47 10.0–.23	11.51S–.04	165.84E–.04	37	4.8b,4.5s			
NEIC	V	28 16 47 11.2–.24	11.50S	165.80E	35	4.9b,4.5s			
GCMT	V	28 16 47 11.2–.20	11.63S	165.62E	17–1	5.1W,4.5s			

ISC Event type se.

IDC Error ellipse: s-maj=17.6km s-min=13.9km az=103.0.

ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.1km az=42.8.

NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.9km az=133.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s53,c68; s67,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.15±.19 $M_{\theta\theta}$-1.01±.15; $M_{\phi\phi}$-3.14±.15; $M_{r\theta}$3.22±.41; $M_{\theta\phi}$1.98±.10; $M_{\phi r}$-3.30±.39; Best double couple: NP1:ϕ_s139.00000°,δ69.00000° ,λ83.00000°. NP2:ϕ_s339.00000°,δ22.00000°,λ109.00000°. Principal axes: T 6.2420,Plg65.0000°,Azm37.0000°; N 0.0420,Plg7.0000°,Azm142.0000° ; P -6.2840,Plg24.0000°,Azm235.0000° $M_0$6.26300×10^{16}

ISC	**V**	**30 08 03 03.2–.90**	**12.34S–.09**	**165.6E–.10**	**35**	**3.9b**	**13**	**6-118**	
IDC	V	30 08 02 58.2–1.1	12.33S	165.66E	0	4.1,3.9			**¶16702283**
NEIC	V	30 08 02 59.6–.70	12.32S	165.68E	10	4.2b,3.9			
ISCJB	V	30 08 03 01.1–.78	12.42S–.07	165.55E–.09	33	3.9b,3.9			

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

IDC	**V**	**30 11 20 54.5–2.6**	**12.21S**	**166.93E**	**0**	**4.0,3.7**			
									¶17204756

IDC Error ellipse: s-maj=117.2km s-min=31.4km az=134.0.

IDC	**VI**	**09 14 53 53.3–4.3**	**11.44S**	**165.80E**	**0**	**3.8,3.5**			
									¶17205641

IDC Error ellipse: s-maj=218.9km s-min=33.2km az=139.0.

ISC	**VI**	**20 06 50 38.6–1.1**	**11.4S–.10**	**166.4E–.20**	**59**	**4.3b**	**13**	**7-94**	
ISCJB	VI	20 06 50 37.3–1.0	11.5S–.10	166.3E–.20	59	4.3b,3.0s			**¶16731019**
IDC	VI	20 06 50 41.2–6.7	11.54S	166.34E	82–66	4.1,4.0			
NEIC	VI	20 06 50 41.5–3.0	11.58S	166.38E	87–27	4.4b,4.0			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=22.3km s-min=17.4km az=0.6.

IDC Error ellipse: s-maj=59.0km s-min=30.6km az=148.0.

NEIC Event type se. Error ellipse: s-maj=25.2km s-min=17.1km az=165.0.

ISC	**VI**	**21 02 04 16.9–.57**	**11.48S–.03**	**165.50E–.03**	**19–2**	**5.8s,5.8b**	**1386**	**6-169**	
IDC	VI	21 02 04 13.8–.31	11.49S	165.64E	0	5.6,5.6s			**¶16638815**
ISCJB	VI	21 02 04 13.2–.96	11.50S–.02	165.55E–.02	6–5	5.8s,5.7b			
BJI	VI	21 02 04 14.9	11.55S	165.50E	20	6.0b,5.8s			
GCMT	VI	21 02 04 15.9–.10	11.55S	165.36E	22–0	6.0W,5.8s			
NEIC	VI	21 02 04 15.0–.00	11.41S	165.34E	13	6.0W,5.8s			
NEIC	VI	21 02 04 15.9–.09	11.48S	165.55E	14	6.0W,5.9W			
MOS	VI	21 02 04 18.2–1.4	11.36S	165.50E	33	6.0b,5.7s			

ISC Event type se.

IDC Error ellipse: s-maj=9.9km s-min=8.9km az=58.0.

ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.9km az=152.7.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c314; s139,c497;Duration: 2s5 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.26±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$1.21±.01; $M_{r\theta}$0.01±.01; $M_{\theta\phi}$-0.34±.01; $M_{\phi r}$-0.10±.01; Best double couple: NP1:ϕ_s346.00000°,δ47.00000°,λ-89.00000°. NP2:ϕ_s164.00000° ,δ43.00000°,λ-92.00000°. Principal axes: T 1.3080,Plg2.0000°,Azm75.0000° ; N -0.0440,Plg1.0000°,Azm165.0000°; P -1.2640,Plg88.0000°,Azm280.0000° $M_0$1.28600×10^{18}

NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.20 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$1.24 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.35 $M_{\phi r}$-0.41 Best double couple: NP1:ϕ_s349.00000° ,δ54.00000°,λ-86.00000°. NP2:ϕ_s162.00000°,δ36.00000°,λ-95.00000°. Principal axes: T 1.3900,Plg8.0000°,Azm75.0000°; N -0.1200,Plg3.0000°,Azm166.0000° ; P -1.2700,Plg80.0000°,Azm276.0000° $M_0$1.30000×10^{18}

NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.8km az=131.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s39 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.52 $M_{\theta\theta}$-3.19 $M_{\phi\phi}$7.71 $M_{r\theta}$1.08 $M_{\theta\phi}$-2.76 $M_{\phi r}$-2.05 Best double couple: NP1:ϕ_s327.00000°,δ59.00000°,λ-118.00000°. NP2: ϕ_s192.00000°,δ41.00000°,λ-53.00000°. Principal axes: T 8.7500,Plg10.0000°,Azm76.0000° ; N -3.6000,Plg23.0000°,Azm342.0000°; P -5.1500,Plg65.0000°,Azm187.0000° $M_0$7.60000×10^{17}

MOS Error ellipse: s-maj=6.6km s-min=5.8km az=111.4.

IDC	**VI**	**21 07 32 36.4–4.0**	**11.81S**	**165.75E**	**0**	**4.1,3.9b**			
									¶17206662

IDC Error ellipse: s-maj=167.9km s-min=32.5km az=138.0.

IDC	**VI**	**21 07 51 12.3–4.2**	**12.79S**	**165.93E**	**0**	**3.9,3.7**			
									¶17206665

IDC Error ellipse: s-maj=181.5km s-min=31.6km az=139.0.

IDC	**VI**	**22 01 43 29.0–4.9**	**11.29S**	**166.05E**	**0**	**4.0,3.8b**			
									¶17206718

IDC Error ellipse: s-maj=218.9km s-min=38.0km az=136.0.

ISC	**VI**	**24 06 33 05.0–.36**	**10.93S–.04**	**165.98E–.04**	**50–3**	**5.7b,5.2s**	**1200**	**6-170**	
ISCJB	VI	24 06 33 01.9–.93	10.94S–.02	165.93E–.02	33–8	5.6b,5.1s			**¶16652966**
MOS	VI	24 06 33 02.8–.89	10.77S	165.85E	36	5.8b,5.3s			
IDC	VI	24 06 33 04.7–.49	10.94S	165.93E	46–3	5.4,5.2			
BJI	VI	24 06 33 06.5	10.49S	165.83E	60	5.7b,5.5b			
GCMT	VI	24 06 33 07.8–.40	10.69S	165.50E	51–1	6.1W,5.5b			
NEIC	VI	24 06 33 07.8–.51	10.93S	165.93E	72–4	5.6b,5.5b			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=3.1km az=38.8.

MOS Error ellipse: s-maj=7.0km s-min=5.7km az=87.7.

IDC Error ellipse: s-maj=12.5km s-min=9.9km az=100.0.

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s31,c38; s49,c71;Duration: 2s6 Moment tensor: Scale 10^{18}Nm; M_{rr}1.78±.10 $M_{\theta\theta}$-0.69±.06; $M_{\phi\phi}$-1.09±.05; $M_{r\theta}$-0.27±.04; $M_{\theta\phi}$0.34±.03; $M_{\phi r}$0.19±.06; Best double couple: NP1: ϕ_s326.00000°,δ51.00000°,λ86.00000°. NP2:ϕ_s153.00000°,δ40.00000°,λ95.00000°. Principal axes: T 1.8170,Plg84.0000°,Azm209.0000°; N -0.5070,Plg3.0000°,Azm329.0000° ; P -1.3090,Plg6.0000°,Azm59.0000° $M_0$1.56300×10^{18}

NEIC Event type se. Error ellipse: s-maj=2.4km s-min=2.2km az=131.0.

ISC	**VI**	**24 15 00 52.6–.45**	**11.64S–.06**	**166.46E–.07**	**59**	**4.8b,3.9s**	**88**	**7-165**	
ISCJB	VI	24 15 00 51.5–.40	11.64S–.05	166.34E–.06	59	4.7b,3.7s			**¶16681341**
IDC	VI	24 15 00 52.0–.89	11.46S	166.51E	56–5	4.6,4.4			
BJI	VI	24 15 00 52.8	11.37S	166.37E	60	5.2b,5.1s			
NEIC	VI	24 15 00 53.8–1.2	11.58S	166.38E	70–10	4.9b,5.1s			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=7.5km az=10.2.

IDC Error ellipse: s-maj=21.2km s-min=14.4km az=108.0.

NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.1km az=117.0.

ISC	**VI**	**28 11 41 31.3–.64**	**12.45S–.07**	**166.70E–.09**	**59**	**4.3b,3.4s**	**31**	**7-149**	
ISCJB	VI	28 11 41 29.9–.53	12.50S–.06	166.54E–.09	59	4.4b,3.4s			**¶16711268**
IDC	VI	28 11 41 31.7–3.7	12.40S	166.60E	63–32	4.4L,4.3			
NEIC	VI	28 11 41 32.6–1.1	12.44S	166.59E	70–10	4.7b,4.3			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=7.8km az=168.5.

IDC Error ellipse: s-maj=26.9km s-min=18.7km az=67.0.

NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.3km az=74.0.

IDC	**VI**	**28 13 14 02.9–6.8**	**11.93S**	**166.66E**	**215–70**	**4.2,3.8**			
									¶17207142

IDC Error ellipse: s-maj=59.7km s-min=24.8km az=157.0.

ISC	**VI**	**30 22 35 01.6–.62**	**10.43S–.08**	**166.0E–.10**	**31**	**4.2b,3.8s**	**20**	**6-120**	
NEIC	VI	30 22 35 01.7–.57	10.25S	166.03E	35	4.5b,3.8s			**¶16731882**
IDC	VI	30 22 35 08.7–3.8	10.84S	165.37E	66–33	4.7L,4.2			

ISC Event type se.

NEIC Event type se. Error ellipse: s-maj=14.5km s-min=12.4km az=98.0.

IDC Error ellipse: s-maj=29.5km s-min=21.2km az=57.0.

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IDC	**I**	**01 03 08 54.1–12**	**19.45S**	**167.30E**	**0**	**3.9,3.8b**			
									¶17189101

IDC Error ellipse: s-maj=212.3km s-min=36.7km az=77.0.

IDC	**I**	**01 05 08 20.6–1.6**	**19.25S**	**167.84E**	**0**	**3.8,3.6**			
									¶17189108

IDC Error ellipse: s-maj=59.3km s-min=30.8km az=141.0.

ISC	**I**	**01 05 14 44.1–1.0**	**19.4S–.10**	**167.8E–.30**	**26**	**4.1b**	**12**	**3-147**	
IDC	I	01 05 14 40.4–1.4	19.33S	167.81E	0	4.3,4.1b			**¶17189109**
ISCJB	I	01 05 14 43.2–1.0	19.4S–.10	167.7E–.20	26	4.1b,3.2s			

ISC Event type ke.

ISCJB Event type ke.

ISC	**I**	**01 14 46 01.3–2.6**	**19.4S–.10**	**167.9E–.40**	**28**	**3.8b**	**7**	**3-147**	
IDC	I	01 14 45 58.8–2.5	19.22S	167.63E	0	3.9,3.7			**¶17189140**

ISC Event type ke.

IDC Error ellipse: s-maj=59.5km s-min=33.7km az=117.0.

ISC	**I**	**01 15 44 05.1–1.3**	**19.7S–.10**	**167.7E–.20**	**26**	**4.0b**	**8**	**3-91**	
IDC	I	01 15 44 00.7–1.4	19.56S	167.75E	0	4.2,4.0			**¶17189143**
ISCJB	I	01 15 44 03.4–1.3	19.47S–.10	167.7E–.20	26	4.0b,4.0			

ISC Event type ke.

ISCJB Event type ke.

IDC	**I**	**01 15 51 55.9–1.4**	**19.28S**	**167.86E**	**0**	**4.0,3.7**			
									¶17189144

IDC Error ellipse: s-maj=56.4km s-min=25.3km az=142.0.

IDC	**I**	**01 16 37 12.7–3.7**	**19.48S**	**167.88E**	**0**	**3.9,3.8**			
									¶17189146

IDC Error ellipse: s-maj=83.1km s-min=29.8km az=107.0.

ISC	**I**	**01 23 35 26.0–.34**	**19.41S–.05**	**167.89E–.07**	**26**	**5.2b,4.2s**	**346**	**3-166**	
IDC	I	01 23 35 21.6–.39	19.36S	167.89E	0	4.9,4.8			**¶15902709**
ISCJB	I	01 23 35 24.6–.15	19.33S–.03	167.80E–.03	26	5.1b,4.2s			
MOS	I	01 23 35 25.5–1.2	19.32S	167.77E	33	5.1b,4.2s			
GCMT	I	01 23 35 26.4–.30	19.26S	167.73E	18–1	5.0W,4.2s			
NEIC	I	01 23 35 26.4–2.3	19.27S	167.82E	28–15	5.3b,4.2s			
BJI	I	01 23 35 26.3	18.85S	167.95E	26	5.4b,5.2s			

ISC Event type se.

IDC Error ellipse: s-maj=13.3km s-min=11.6km az=103.0.

ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.8km az=149.7.

MOS Error ellipse: s-maj=11.3km s-min=10.3km az=126.1.

GCMT Error ellipse: s-maj=1.1km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c46; s80,c114; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.52±.26 $M_{\theta\theta}$-1.22±.18; $M_{\phi\phi}$4.74±.17; $M_{r\theta}$0.21±.49; $M_{\theta\phi}$-1.33±.12; $M_{\phi r}$0.57±.32; Best double couple: NP1:ϕ_s176.00000°,δ49.00000° ,λ-78.00000°. NP2:ϕ_s339.00000°,δ42.00000°,λ-103.00000°. Principal axes: T 5.0540,Plg3.0000°,Azm258.0000°; N -1.4530,Plg9.0000°,Azm349.0000° ; P -3.6010,Plg81.0000°,Azm147.0000° $M_0$4.32800×10^{16}

NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.4km az=45.0.

IDC I 02 21 18 49.0–52 19.89S 167.82E 0 3.9,3.8b ¶17189247
IDC Error ellipse: s-maj=877.4km s-min=53.6km az=80.0.
ISC I 04 08 44 13.8–.79 19.02S–.09 167.7E–.20 28 4.0b 21 3-165
IDC I 04 08 44 09.7–.89 19.04S 167.66E 0 4.1,4.0 **¶15961492**
NEIC I 04 08 44 11.0–.51 19.02S 167.72E 10 4.1b,4.0
ISCJB I 04 08 44 11.9–.76 19.01S–.07 167.7E–.10 28 4.0b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 06 06 07 39.9–.34 19.52S–.06 167.98E–.06 26 5.2b,4.0s 304 3-165
IDC I 06 06 07 36.0–.51 19.50S 168.01E 0 4.8,4.7 **¶15906302**
BJI I 06 06 07 36.3 19.30S 167.90E 10 5.3b,5.2s
NEIC I 06 06 07 37.8–.16 19.44S 167.94E 10 5.2b,5.2s
GCMT I 06 06 07 37.8–.40 19.13S 167.67E 22–1 4.9W,5.2s
ISCJB I 06 06 07 38.7–.17 19.49S–.05 167.88E–.04 26 5.1b,4.0s
MOS I 06 06 07 39.2–1.1 19.57S 167.95E 33 5.1b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=13.5km az=137.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=3.8km az=152.0.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c26; s69,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.53±.31 $M_{\theta\theta}$-0.06±.19; $M_{\phi\phi}$2.59±.18; $M_{r\theta}$0.28±.36; $M_{\theta\phi}$-0.99±.11; $M_{\phi r}$1.23±.25; Best double couple: NP1:ϕ_s175.00000°,δ57.00000°,λ-74.00000°. NP2:ϕ_s327.00000°,δ36.00000°,λ-114.00000°. Principal axes: T 3.1280,Plg11.0000°,Azm254.0000°; N -0.2240,Plg14.0000°,Azm346.0000°; P -2.9010,Plg72.0000°,Azm126.0000° $M_0$3.01400×10^{16}
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.2km az=149.0.
MOS Error ellipse: s-maj=12.3km s-min=12.0km az=94.5.
IDC I 06 18 36 40.9–2.3 19.19S 167.94E 0 3.9,3.6 ¶17189604
IDC Error ellipse: s-maj=65.9km s-min=34.0km az=131.0.
IDC I 08 14 39 08.9–65 20.79S 174.52E 0 4.3,4.1b ¶17189702
IDC Error ellipse: s-maj=1118.0km s-min=139.1km az=80.0.
ISC I 09 10 29 02.5–.80 19.00S–.10 167.7E–.20 28 4.0b 15 3-147
IDC I 09 10 28 58.6–1.0 19.01S 167.68E 0 4.2,4.0 **¶16007256**
NEIC I 09 10 28 59.9–.70 19.00S 167.83E 10 4.3b,4.0
ISCJB I 09 10 29 00.9–.75 19.02S–.07 167.7E–.10 28 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 11 46 31.4–.78 19.5S–.10 167.8E–.20 26 4.4b 19 3-147
IDC I 09 11 46 27.1–1.1 19.42S 167.93E 0 4.4,4.3 **¶16007265**
NEIC I 09 11 46 29.1–.62 19.38S 167.85E 10 4.5b,4.3
ISCJB I 09 11 46 30.5–.61 19.52S–.07 167.72E–.10 26 4.2b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 09 12 34 05.2–11 19.43S 167.99E 0 4.0,3.9b ¶17189763
IDC Error ellipse: s-maj=205.1km s-min=42.5km az=88.0.
IDC I 09 20 46 52.7–3.2 19.66S 167.15E 0 3.9,3.8b ¶17189792
IDC Error ellipse: s-maj=76.4km s-min=37.2km az=98.0.
IDC I 10 06 10 27.8–12 19.63S 167.72E 0 3.9,3.8b ¶17189823
IDC Error ellipse: s-maj=206.4km s-min=41.1km az=86.0.
IDC I 10 07 08 02.9–3.8 19.60S 167.88E 0 4.0,3.9b ¶17189826
IDC Error ellipse: s-maj=86.3km s-min=35.4km az=109.0.
IDC I 10 23 54 43.4–2.3 19.56S 167.85E 0 4.1,3.9 ¶17189883
IDC Error ellipse: s-maj=63.8km s-min=30.7km az=126.0.
ISC I 12 23 23 46.0–.39 19.19S–.06 167.85E–.07 20 5.1b,4.9s 227 3-165
IDC I 12 23 23 42.4–.65 19.17S 167.89E 0 4.7,4.6 **¶15925923**
ISCJB I 12 23 23 44.5–.19 19.24S–.04 167.73E–.04 20 5.1b,4.8s
NEIC I 12 23 23 44.4–.23 19.15S 167.81E 10 5.2b,4.8s
MOS I 12 23 23 45.6–1.2 19.20S 167.77E 28 4.9b,4.8s
BJI I 12 23 23 47.5 18.82S 168.12E 37 5.3b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=16.1km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=141.8.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.8km az=151.0.
MOS Error ellipse: s-maj=15.5km s-min=13.4km az=4.6.
ISC I 13 00 24 42.0–.61 19.29S–.10 167.8E–.10 20 4.7b 53 3-165
IDC I 13 00 24 39.0–.88 19.16S 167.90E 0 4.5,4.3 **¶16151204**
ISCJB I 13 00 24 40.6–.38 19.26S–.07 167.73E–.07 20 4.7b,3.6s
NEIC I 13 00 24 40.4–.43 19.27S 167.84E 10 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=33.4km s-min=16.6km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=6.6km az=41.8.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=7.7km az=150.0.
IDC I 14 02 16 01.0–3.1 19.05S 167.27E 0 4.2,3.8 ¶17190125
IDC Error ellipse: s-maj=235.6km s-min=32.3km az=159.0.
IDC I 14 03 33 42.5–3.5 19.06S 167.86E 0 4.1,3.8 ¶17190131
IDC Error ellipse: s-maj=288.4km s-min=33.1km az=158.0.
IDC I 14 05 26 44.3–2.4 19.27S 167.93E 0 4.2,3.9 ¶17190136
IDC Error ellipse: s-maj=114.6km s-min=27.5km az=154.0.
IDC I 14 11 56 41.2–3.0 19.43S 167.58E 0 3.9,3.6 ¶17190161
IDC Error ellipse: s-maj=228.6km s-min=31.9km az=159.0.
IDC I 14 16 02 00.9–3.6 19.36S 167.97E 0 4.0,3.7 ¶17190196
IDC Error ellipse: s-maj=279.1km s-min=34.0km az=159.0.
IDC I 14 18 25 00.1–2.0 19.87S 167.30E 0 4.2,4.0b ¶17190201
IDC Error ellipse: s-maj=80.9km s-min=31.1km az=151.0.
IDC I 18 22 26 32.1–1.8 19.45S 167.89E 0 4.2,3.9 ¶17190509
IDC Error ellipse: s-maj=49.4km s-min=26.7km az=128.0.
ISC I 19 01 52 19.1–.89 19.55S–.09 167.9E–.10 26 4.5b,3.6s 21 3-165
IDC I 19 01 52 15.7–1.1 19.43S 167.93E 0 4.3,4.2 **¶16030464**
NEIC I 19 01 52 16.6–.81 19.48S 167.91E 10 4.5b,4.2
ISCJB I 19 01 52 17.7–.94 19.6S–.10 167.9E–.10 26 4.3b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 19 04 59 53.9–70 13.12S 169.99E 0 4.8s,4.8 ¶17190528
IDC Error ellipse: s-maj=1198.0km s-min=131.3km az=65.0.
ISC I 20 21 02 55.1–.86 19.37S–.10 167.9E–.20 26 4.3b 23 3-147
IDC I 20 21 02 51.1–1.1 19.31S 167.99E 0 4.3,4.1 **¶16151975**
NEIC I 20 21 02 51.2–4.5 19.31S 168.00E 2–27 4.3b,4.1
ISCJB I 20 21 02 53.7–.58 19.33S–.07 167.9E–.10 26 4.2b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 22 09 29 21.2–64 14.34S 171.26E 0 4.1,3.9 ¶17190731
IDC Error ellipse: s-maj=1098.0km s-min=132.0km az=68.0.
ISC I 25 03 20 02.0–1.1 19.4S–.10 167.8E–.20 26 4.1b 10 3-144
IDC I 25 03 19 58.1–1.3 19.30S 167.76E 0 4.4,4.2 **¶17190938**
ISCJB I 25 03 20 00.6–1.0 19.36S–.09 167.8E–.20 26 4.1b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC I 26 08 34 55.0–3.8 19.11S 168.00E 0 3.8,3.6 ¶17191022
IDC Error ellipse: s-maj=84.9km s-min=31.3km az=106.0.
IDC I 26 13 41 20.5–2.8 13.89S 170.30E 0 3.8,3.6 ¶17191037
IDC Error ellipse: s-maj=126.5km s-min=30.3km az=136.0.
IDC I 28 02 53 08.7–3.7 14.33S 172.63E 576–27 4.1,3.3 ¶17191167
IDC Error ellipse: s-maj=73.3km s-min=25.9km az=129.0.
IDC I 29 03 40 30.2–2.0 19.59S 166.94E 0 3.9,3.7 ¶17191230
IDC Error ellipse: s-maj=44.2km s-min=28.4km az=103.0.
IDC I 31 03 44 41.7–3.8 19.14S 167.89E 0 4.2,4.1b ¶17191385
IDC Error ellipse: s-maj=84.1km s-min=30.8km az=104.0.
IDC II 03 16 48 02.6–4.2 19.33S 167.96E 0 4.0,3.9b ¶17191604
IDC Error ellipse: s-maj=109.5km s-min=33.0km az=108.0.
IDC II 03 20 49 13.0–3.9 19.25S 167.77E 0 3.7,3.6 ¶17191617
IDC Error ellipse: s-maj=84.6km s-min=32.1km az=102.0.
IDC II 11 04 19 13.3–4.7 18.70S 171.10E 0 4.6,4.4 ¶17192049
IDC Error ellipse: s-maj=162.1km s-min=55.7km az=145.0.
IDC II 18 09 13 45.6–5.7 13.59S 172.10E 0 4.2,4.1 ¶17192469
IDC Error ellipse: s-maj=133.5km s-min=31.9km az=108.0.
IDC II 24 15 01 58.9–35 15.53S 162.33E 0 3.9,3.7 ¶17192791
IDC Error ellipse: s-maj=589.4km s-min=89.3km az=63.0.
IDC II 26 09 32 20.0–62 19.35S 165.07E 0 4.0,3.8 ¶17192899
IDC Error ellipse: s-maj=1033.0km s-min=106.3km az=73.0.
ISC II 28 23 11 50.3–.93 13.8S–.30 172.6E–.20 600 4.3b 14 10-171
ISCJB II 28 23 11 49.5–.92 13.7S–.30 172.4E–.20 600 4.0b **¶17193026**
IDC II 28 23 11 50.3–1.8 13.74S 172.52E 596–20 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.1km s-min=14.1km az=142.4.
IDC Error ellipse: s-maj=50.0km s-min=15.0km az=148.0.
IDC III 05 18 49 14.7–2.7 18.63S 166.53E 0 4.3,4.0b ¶17193304
IDC Error ellipse: s-maj=146.5km s-min=26.1km az=155.0.
ISC III 19 12 11 16.0–.56 19.49S–.05 167.99E–.05 33–2 5.2b,4.6s 391 3-165
IDC III 19 12 11 10.4–.51 19.52S 168.10E 0 4.8,4.7 **¶17197220**
MOS III 19 12 11 14.6–1.0 19.45S 167.88E 33 5.5b,4.7
ISCJB III 19 12 11 15.7–.15 19.49S–.04 167.95E–.03 43 5.2b,4.6s
NEIC III 19 12 11 16.1–1.9 19.47S 167.97E 34–13 5.4b,4.6s
GCMT III 19 12 11 16.1–.20 19.32S 167.78E 16–0 5.2W,4.6s
BJI III 19 12 11 16.6 19.09S 168.03E 43 5.2b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=12.9km az=138.0.
MOS Error ellipse: s-maj=9.4km s-min=8.7km az=47.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.5km az=155.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.4km az=172.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c57; s99,c154; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.71±.23 $M_{\theta\theta}$0.61±.13; $M_{\phi\phi}$5.10±.15; $M_{r\theta}$-0.62±.48; $M_{\theta\phi}$-0.53±.09; $M_{\phi r}$3.87±.38; Best double couple: NP1:ϕ_s172.00000°,δ63.00000°,λ-91.00000°. NP2:ϕ_s354.00000°,δ27.00000°,λ-88.00000°. Principal axes: T 6.4260,Plg18.0000°,Azm263.0000°; N 0.5500,Plg1.0000°,Azm172.0000°; P -6.9770,Plg72.0000°,Azm79.0000° $M_0$6.70100×10^{16}
ISC III 19 12 13 44.0–1.0 19.7S–.10 167.6E–.20 26 4.2b 9 3-144
IDC III 19 12 13 40.1–1.2 19.65S 167.56E 0 4.3,4.1 **¶17197222**
ISC Event type ke.
IDC Error ellipse: s-maj=48.1km s-min=23.6km az=142.0.
IDC III 26 05 04 30.4–79 14.88S 164.81E 0 4.3,4.1 ¶17198605
IDC Error ellipse: s-maj=1320.0km s-min=105.0km az=63.0.
ISC IV 02 17 55 48.7–.98 19.6S–.10 167.8E–.20 26 4.2b 18 3-144
IDC IV 02 17 55 44.8–1.8 19.53S 167.77E 0 4.1,4.0b **¶16536005**
NEIC IV 02 17 55 46.3–.59 19.51S 167.77E 10 4.8b,4.0b
ISCJB IV 02 17 55 47.6–.73 19.53S–.08 167.6E–.10 26 4.4b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 04 02 35 20.8–8.2 17.58S 165.64E 132–104 3.9,3.7 ¶17199726
IDC Error ellipse: s-maj=111.2km s-min=46.7km az=140.0.
ISC IV 04 05 17 30.7–1.2 19.3S–.10 167.7E–.20 26 4.2b,3.2s 9 3-90
IDC IV 04 05 17 26.4–1.5 19.32S 167.77E 0 4.3,4.1 **¶16577647**
ISCJB IV 04 05 17 29.3–1.1 19.30S–.09 167.6E–.20 26 4.1b,3.3s
NEIC IV 04 05 17 32.0–.80 19.36S 167.69E 35 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=42.6km s-min=24.7km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=23.9km s-min=11.3km az=13.3.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=15.2km az=117.0.
ISC IV 08 16 23 07.9–1.5 19.8S–.20 168.0E–.30 26 4.0b,3.3s 8 3-90
IDC IV 08 16 23 04.1–1.7 19.72S 167.98E 0 4.3,4.1 **¶17200261**
ISCJB IV 08 16 23 06.6–1.3 19.8S–.10 168.0E–.20 26 4.0b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 11 05 24 31.2–4.2 19.59S 168.00E 0 4.4,4.2b ¶17200526
IDC Error ellipse: s-maj=92.7km s-min=40.2km az=110.0.
IDC IV 12 15 54 30.5–78 14.30S 170.05E 0 3.7,3.5 ¶17200788
IDC Error ellipse: s-maj=1326.0km s-min=132.3km az=66.0.
ISC IV 13 21 42 52.7–1.5 14.1S–.40 170.7E–.40 635 3.5b 10 32-169
IDC IV 13 21 42 49.4–5.7 14.03S 170.79E 597–60 3.9,3.2 **¶17200951**
ISCJB IV 13 21 42 51.2–1.8 14.1S–.50 170.7E–.40 635 3.5b,3.2
ISC Event type ke.
ISCJB Event type ke.
ISC IV 16 14 22 42.3–3.9 19.8S–.20 167.8E–.50 27 3.8b 7 3-78
IDC IV 16 14 22 38.8–4.6 19.63S 167.71E 0 4.1,3.9 **¶17201233**
ISC Event type ke.
IDC Error ellipse: s-maj=85.0km s-min=39.9km az=93.0.
IDC IV 19 12 35 04.7–13 19.16S 167.01E 0 3.8,3.7b ¶17201498
IDC Error ellipse: s-maj=220.8km s-min=36.0km az=71.0.
IDC IV 21 12 51 29.0–1.9 14.42S 171.28E 0 4.1,3.9b ¶17201714
IDC Error ellipse: s-maj=84.6km s-min=25.5km az=137.0.
ISC IV 29 07 21 11.8–.36 19.37S–.06 167.94E–.07 26 5.0b,3.8s 230 3-165
IDC IV 29 07 21 07.3–.80 19.34S 167.99E 0 4.6,4.5b **¶16482378**
GCMT IV 29 07 21 09.4–.30 19.29S 167.77E 17–1 5.0W,4.5b
NEIC IV 29 07 21 09.4–.20 19.26S 167.95E 10 5.1b,4.5b
ISCJB IV 29 07 21 10.2–.20 19.37S–.05 167.92E–.04 26 5.0b,3.8s
MOS IV 29 07 21 11.6–.94 19.36S 167.92E 36 5.3b,3.8s
BJI IV 29 07 21 12.1 19.03S 168.04E 32 4.9b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=16.4km az=131.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c33; s78,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.97±.20 $M_{\theta\theta}$0.86±.13; $M_{\phi\phi}$2.11±.13; $M_{r\theta}$-1.27±.39; $M_{\theta\phi}$-1.12±.08; $M_{\phi r}$1.88±.34; Best double couple: NP1:ϕ_s147.00000°,δ64.00000°,λ-92.00000°. NP2:ϕ_s331.00000°,δ26.00000°,λ-86.00000°. Principal axes: T 3.5550,Plg19.0000°,Azm239.0000°; N 0.2100,Plg2.0000°,Azm148.0000°; P -3.7600,Plg71.0000°,Azm54.0000° $M_0$3.65800×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.9km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=150.0.
MOS Error ellipse: s-maj=11.3km s-min=9.5km az=155.6.
IDC IV 29 07 23 19.4–2.1 19.14S 167.78E 0 4.0,3.7 ¶17202358

IDC Error ellipse: s-maj=61.8km s-min=32.0km az=131.0.
ISC IV 29 07 36 22.0–.32 19.31S–.05 167.87E–.06 26 5.1b,4.2s 300 3-165
IDC IV 29 07 36 17.0–.57 19.36S 168.03E 0 4.8,4.7L ¶16482380
GCMT IV 29 07 36 19.5–.20 19.22S 167.73E 14–0 5.1W,4.7L
NEIC IV 29 07 36 19.5–.17 19.16S 167.92E 10 5.2b,4.7L
ISCJB IV 29 07 36 20.4–.16 19.25S–.04 167.89E–.04 26 5.1b,4.2s
MOS IV 29 07 36 21.4–.98 19.23S 167.83E 33 5.3b,4.2s
BJI IV 29 07 36 23.5 19.10S 167.90E 35 5.2b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=14.3km az=130.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c77; s106,c168; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.95±.19 $M_{\theta\theta}$0.36±.13; $M_{\phi\phi}$5.58±.14; $M_{r\theta}$0.72±.33; $M_{\theta\phi}$-2.52±.10; $M_{\phi r}$0.71±.27; Best double couple: NP1:ϕ_s168.00000°,δ48.00000°,λ-77.00000°. NP2:ϕ_s328.00000°,δ44.00000°,λ-104.00000°. Principal axes: T 6.6110,Plg2.0000°,Azm248.0000°; N -0.4940,Plg10.0000°,Azm339.0000°; P -6.1230,Plg80.0000°,Azm148.0000° $M_0$6.36700×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=150.1.
MOS Error ellipse: s-maj=10.1km s-min=8.7km az=136.6.
ISC IV 29 07 37 49.7–.53 19.39S–.08 168.0E–.10 26 4.7b 37 3-159
IDC IV 29 07 37 45.7–.71 19.38S 167.95E 0 4.7,4.6b ¶16577915
NEIC IV 29 07 37 47.4–.43 19.16S 167.71E 10 4.9b,4.6b
ISCJB IV 29 07 37 48.2–.41 19.34S–.06 167.78E–.08 26 4.6b,4.6b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 29 07 54 18.0–1.4 19.19S 167.83E 0 4.2,3.9b
¶17202361
IDC Error ellipse: s-maj=55.4km s-min=25.4km az=142.0.
IDC IV 29 07 57 54.9–2.0 19.25S 167.76E 0 3.8s,3.8
¶17202362
IDC Error ellipse: s-maj=60.0km s-min=29.8km az=129.0.
ISC IV 29 09 38 30.1–.30 19.36S–.05 167.94E–.06 26 5.2b,4.3s 404 3-165
IDC IV 29 09 38 25.8–.44 19.29S 168.00E 0 5.0,4.9 ¶16505577
BJI IV 29 09 38 27.7 19.24S 168.45E 27 5.2b,5.0b
NEIC IV 29 09 38 27.8–.13 19.25S 167.92E 10 5.2b,5.0b
GCMT IV 29 09 38 27.8–.20 19.31S 167.76E 18–1 5.0W,5.0b
ISCJB IV 29 09 38 28.9–.13 19.31S–.03 167.91E–.03 26 5.1b,4.2s
MOS IV 29 09 38 29.8–1.1 19.33S 167.90E 33 5.3b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=11.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.0km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c31; s89,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.17±.26 $M_{\theta\theta}$0.50±.15; $M_{\phi\phi}$3.67±.17; $M_{r\theta}$-1.20±.44; $M_{\theta\phi}$-1.38±.09; $M_{\phi r}$0.73±.35; Best double couple: NP1:ϕ_s149.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s350.00000°,δ39.00000°,λ-73.00000°. Principal axes: T 4.3350,Plg8.0000°,Azm248.0000°; N 0.1490,Plg11.0000°,Azm157.0000°; P -4.4800,Plg77.0000°,Azm13.0000° $M_0$4.40700×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=143.1.
MOS Error ellipse: s-maj=9.9km s-min=8.8km az=46.8.
ISC IV 29 09 41 46.4–1.2 19.4S–.10 167.8E–.20 20 4.1b 8 3-91
IDC IV 29 09 41 43.4–1.4 19.25S 167.79E 0 4.4,4.1 ¶17202369
ISCJB IV 29 09 41 45.1–1.1 19.3S–.10 167.7E–.20 20 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC IV 29 09 47 13.0–.35 19.45S–.06 167.87E–.06 26 4.8b,4.2s 183 3-165
IDC IV 29 09 47 08.5–.58 19.32S 167.96E 0 4.7,4.6 ¶16482443
BJI IV 29 09 47 09.5 19.36S 168.58E 27 5.1b,5.0s
ISCJB IV 29 09 47 11.7–.19 19.40S–.04 167.78E–.04 26 4.8b,4.2s
NEIC IV 29 09 47 12.6–2.2 19.36S 167.82E 23–15 5.0b,4.2s
MOS IV 29 09 47 12.5–1.1 19.42S 167.80E 33 5.1b,4.2s
GCMT IV 29 09 47 12.6–.30 19.10S 167.73E 18–1 5.0W,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=14.2km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=37.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.5km az=178.0.
MOS Error ellipse: s-maj=11.0km s-min=10.8km az=50.8.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s74,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.55±.25 $M_{\theta\theta}$0.35±.14; $M_{\phi\phi}$3.20±.16; $M_{r\theta}$1.35±.42; $M_{\theta\phi}$-1.01±.09; $M_{\phi r}$0.85±.30; Best double couple: NP1:ϕ_s182.00000°,δ52.00000°,λ-64.00000°. NP2:ϕ_s324.00000°,δ45.00000°,λ-119.00000°. Principal axes: T 3.5470,Plg4.0000°,Azm254.0000°; N 0.5980,Plg20.0000°,Azm345.0000°; P -4.1420,Plg70.0000°,Azm154.0000° $M_0$3.84400×10^{16}
ISC IV 29 09 53 54.0–.58 19.35S–.09 167.9E–.10 26 4.3b 38 3-147
IDC IV 29 09 53 50.0–.73 19.29S 167.98E 0 4.5,4.2 ¶16649596
NEIC IV 29 09 53 51.4–.42 19.29S 167.97E 10 4.7b,4.2
ISCJB IV 29 09 53 52.8–.54 19.33S–.07 167.8E–.10 26 4.3b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 29 13 08 32.2–.41 19.34S–.07 167.81E–.07 26 5.0b,3.8s 130 3-165
IDC IV 29 13 08 27.4–.72 19.26S 167.91E 0 4.7,4.6 ¶16483656
NEIC IV 29 13 08 29.1–.23 19.33S 167.77E 10 5.0b,4.6
ISCJB IV 29 13 08 30.4–.23 19.40S–.05 167.88E–.05 26 5.0b,3.9s
BJI IV 29 13 08 30.8 19.87S 167.61E 32 5.4b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=18.2km az=72.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.2km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.0km az=140.1.
ISC IV 29 14 59 54.3–.92 19.4S–.10 168.0E–.20 26 4.2b 11 3-125
IDC IV 29 14 59 50.3–.93 19.33S 168.03E 0 4.5,4.5L ¶17202392
ISCJB IV 29 14 59 52.5–.87 19.41S–.10 168.0E–.20 26 4.2b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 29 16 00 41.0–.42 19.42S–.07 167.85E–.08 26 4.8b,3.6s 76 3-165
IDC IV 29 16 00 37.0–.66 19.35S 168.01E 0 4.6,4.5 ¶16483659
ISCJB IV 29 16 00 39.5–.32 19.40S–.04 167.85E–.06 26 4.7b,3.6s
BJI IV 29 16 00 40.5 19.08S 167.89E 28 5.0b,4.7b
NEIC IV 29 16 00 42.6–1.2 19.40S 167.88E 38–11 4.9b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=16.0km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=6.5km az=3.6.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.2km az=180.0.
ISC IV 29 18 52 02.9–.84 19.4S–.10 167.9E–.20 26 4.0b 26 3-147
IDC IV 29 18 51 58.8–.97 19.39S 167.88E 0 4.2,4.0 ¶16631217
NEIC IV 29 18 52 00.2–.74 19.39S 167.87E 10 4.3b,4.0
ISCJB IV 29 18 52 01.3–.79 19.32S–.08 167.7E–.10 26 4.0b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 30 00 10 54.7–.70 19.4S–.10 167.9E–.20 26 4.1b 23 3-149
IDC IV 30 00 10 50.7–1.1 19.33S 167.94E 0 4.2,4.0b ¶16577918
NEIC IV 30 00 10 52.3–.43 19.34S 167.92E 10 4.4b,4.0b
ISCJB IV 30 00 10 53.4–.69 19.36S–.08 167.8E–.10 26 4.2b,4.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 30 03 03 00.8–.70 19.4S–.10 168.0E–.20 20 4.6b 36 3-149
IDC IV 30 03 02 58.8–.87 18.94S 167.74E 0 4.5,4.3 ¶16577923
ISCJB IV 30 03 02 59.6–.56 19.41S–.08 167.9E–.10 20 4.6b,4.3
NEIC IV 30 03 02 59.6–.43 19.37S 167.95E 10 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=21.1km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=8.3km az=28.4.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=9.2km az=136.0.
ISC IV 30 03 10 07.6–.52 19.36S–.09 167.7E–.10 26 4.4b,3.7s 47 3-149
IDC IV 30 03 10 03.0–1.0 19.31S 167.78E 0 4.4,4.2 ¶16485468
ISCJB IV 30 03 10 06.3–.45 19.34S–.06 167.65E–.08 26 4.4b,3.7s
NEIC IV 30 03 10 08.0–4.3 19.35S 167.63E 24–30 4.6b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=28.1km s-min=23.5km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=7.9km az=27.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=11.3km az=158.0.
ISC IV 30 05 40 24.0–.60 19.40S–.09 167.83E–.10 26 4.4b 27 3-148
IDC IV 30 05 40 19.3–.94 19.33S 167.96E 0 4.6,4.4 ¶16577925
NEIC IV 30 05 40 21.7–.49 19.39S 167.82E 10 4.4b,4.4
ISCJB IV 30 05 40 22.2–.50 19.37S–.07 167.83E–.08 26 4.3b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 30 12 24 29.5–1.2 19.5S–.20 168.0E–.30 26 3.9b 7 3-91
IDC IV 30 12 24 25.3–1.5 19.49S 168.04E 0 4.2,4.0 ¶17202456
ISCJB IV 30 12 24 28.2–1.1 19.4S–.10 167.8E–.20 26 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC V 01 08 47 25.3–.53 19.43S–.08 168.0E–.10 26 4.7b,3.5s 59 3-151
IDC V 01 08 47 21.1–.82 19.43S 168.04E 0 4.5,4.3 ¶16708468
NEIC V 01 08 47 22.6–.33 19.39S 168.05E 10 4.9b,4.3
ISCJB V 01 08 47 23.8–.38 19.41S–.06 167.92E–.08 26 4.6b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 01 21 14 54.7–4.2 15.26S 171.68E 0 3.9,3.6
¶17202561
IDC Error ellipse: s-maj=258.8km s-min=54.7km az=151.0.
IDC V 03 09 49 37.9–11 15.40S 164.73E 0 3.7,3.6
¶17202666
IDC Error ellipse: s-maj=199.3km s-min=34.6km az=48.0.
IDC V 10 09 11 26.1–2.2 19.49S 167.78E 0 4.2,4.0
¶17203199
IDC Error ellipse: s-maj=121.9km s-min=35.2km az=154.0.
IDC V 10 09 27 33.9–2.0 19.69S 167.93E 0 4.2,4.0
¶17203208
IDC Error ellipse: s-maj=62.7km s-min=32.5km az=141.0.
IDC V 10 09 45 56.2–2.0 19.94S 167.83E 0 4.0,3.8
¶17203213
IDC Error ellipse: s-maj=56.2km s-min=28.7km az=133.0.
IDC V 10 10 07 35.6–40 19.95S 167.96E 0 4.2,4.0
¶17203226
IDC Error ellipse: s-maj=680.2km s-min=57.6km az=83.0.
IDC V 10 15 36 56.3–9.8 19.97S 171.41E 102–61 3.9,3.8
¶17203297
IDC Error ellipse: s-maj=125.1km s-min=70.9km az=151.0.
IDC V 10 16 37 39.3–11 19.98S 167.68E 0 4.8,4.7s
¶17203308
IDC Error ellipse: s-maj=198.4km s-min=40.7km az=89.0.
IDC V 11 00 05 22.6–4.0 19.91S 167.93E 0 4.1,4.0b
¶17203331
IDC Error ellipse: s-maj=79.5km s-min=49.2km az=108.0.
IDC V 11 14 27 29.8–2.1 19.62S 167.94E 0 4.3,4.0b
¶17203398
IDC Error ellipse: s-maj=115.9km s-min=32.5km az=154.0.
IDC V 12 19 17 05.3–42 19.38S 167.65E 0 4.1,3.9
¶17203498
IDC Error ellipse: s-maj=718.9km s-min=107.7km az=78.0.
ISC V 13 00 07 12.4–.71 19.5S–.10 166.8E–.10 35 4.5b 25 3-116
IDC V 13 00 07 07.3–2.3 19.91S 167.74E 38–8 4.2,4.1 ¶16577289
ISCJB V 13 00 07 10.9–.54 19.5S–.10 166.8E–.10 33 4.5b,4.0s
NEIC V 13 00 07 12.6–.43 19.48S 166.83E 35 4.6b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=77.9km s-min=23.5km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=11.3km az=136.4.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=9.5km az=140.0.
ISC V 18 15 52 05.1–2.1 18.1S–.10 167.0E–.30 35 3.8b 8 4-90
IDC V 18 15 52 05.8–1.8 18.39S 166.26E 0 4.0,3.9b ¶16587338
NEIC V 18 15 52 10.9–2.7 18.66S 166.45E 49–31 4.1b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=33.6km s-min=32.4km az=76.0.
NEIC Event type se. Error ellipse: s-maj=28.7km s-min=17.4km az=141.0.
IDC V 20 20 25 42.4–6.7 19.98S 167.59E 0 4.1,3.9
¶17204081
IDC Error ellipse: s-maj=146.6km s-min=56.7km az=116.0.
IDC V 24 01 27 22.9–2.8 19.17S 174.59E 0 3.9,3.6b
¶17204344
IDC Error ellipse: s-maj=120.3km s-min=50.9km az=150.0.
ISC V 31 22 23 17.9–1.4 19.3S–.20 168.0E–.30 26 4.2b,3.1s 14 3-147
IDC V 31 22 23 14.1–1.9 19.17S 167.94E 0 4.3,4.1 ¶17204848
ISCJB V 31 22 23 16.7–1.5 19.3S–.20 167.9E–.30 26 4.1b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC V 31 22 23 48.6–1.6 19.4S–.10 167.8E–.30 26 4.2b 8 3-144
IDC V 31 22 23 44.3–1.9 19.40S 167.87E 0 4.3,4.1 ¶17204851
ISCJB V 31 22 23 47.4–1.5 19.4S–.10 167.7E–.30 26 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC VI 06 00 11 21.0–10 20.03S 173.25E 0 3.7,3.5
¶17205372
IDC Error ellipse: s-maj=312.3km s-min=47.0km az=138.0.
ISC VI 10 14 31 02.8–.43 14.92S–.06 171.02E–.07 650 4.6b 78 7-143
ISCJB VI 10 14 31 01.5–.34 14.97S–.06 171.03E–.06 650 4.3b ¶16587364
BJI VI 10 14 31 01.6 14.78S 171.09E 648 4.6b,4.3b
NEIC VI 10 14 31 02.9–.63 14.90S 171.04E 660–11 4.8b,4.3b
IDC VI 10 14 31 03.5–1.7 15.00S 171.11E 662–23 4.7,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=7.3km az=19.8.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=9.4km az=97.0.
IDC Error ellipse: s-maj=14.8km s-min=11.6km az=83.0.
ISC VI 12 05 24 26.2–.38 14.34S–.05 171.40E–.05 622–4 4.7b 423 7-170
BJI VI 12 05 24 24.0 14.30S 171.30E 611 4.8b,4.7b ¶16720904
ISCJB VI 12 05 24 25.2–.65 14.36S–.05 171.27E–.03 619–9 4.7b,4.7b
NEIC VI 12 05 24 25.6–.13 14.34S 171.33E 611 5.2b,4.7b
IDC VI 12 05 24 26.3–.87 14.42S 171.41E 624–10 5.1,4.2
MOS VI 12 05 24 26.0–.83 14.30S 171.26E 630 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.6km az=169.3.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=150.0.
IDC Error ellipse: s-maj=10.0km s-min=7.7km az=76.0.
MOS Error ellipse: s-maj=9.0km s-min=8.4km az=140.8.
IDC VI 22 00 13 14.3–7.3 14.29S 170.93E 631–52 4.7,3.7
¶17206711
IDC Error ellipse: s-maj=94.2km s-min=55.0km az=45.0.
IDC VI 25 16 03 10.5–5.2 20.80S 173.44E 0 3.4,3.3
¶17206925
IDC Error ellipse: s-maj=317.6km s-min=62.7km az=158.0.

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ISC I 01 01 08 30.3–.99 19.6S–.20 168.1E–.20 26 3.8b 10 3-144
IDC I 01 01 08 26.5–1.4 19.44S 168.03E 0 4.0,3.8 ¶15979814
NEIC I 01 01 08 27.4–.86 19.54S 168.13E 10 4.2b,3.8
ISCJB I 01 01 08 29.0–.91 19.5S–.10 168.0E–.20 26 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 01 02 58 38.0–.75 19.5S–.10 168.1E–.10 26 4.6b,3.4s 36 3-165
IDC I 01 02 58 34.3–1.3 19.41S 168.06E 0 4.4,4.2 ¶15979819
NEIC I 01 02 58 35.0–.61 19.49S 168.15E 10 4.8b,4.2
ISCJB I 01 02 58 36.4–.58 19.47S–.07 168.04E–.10 26 4.5b,3.5s
ISC Event type se.
NEIC Event type se.

ISCJB Event type se.
IDC I 01 03 40 56.7–1.5 14.20S 166.96E 0 4.0,4.0L
¶17189104

IDC Error ellipse: s-maj=52.3km s-min=27.1km az=128.0.
ISC I 01 04 55 43.7–1.0 19.5S–.10 168.0E–.20 26 4.2b,3.3s 16 3-148
IDC I 01 04 55 39.7–1.4 19.38S 168.01E 0 4.3,4.1 **¶15979820**
NEIC I 01 04 55 41.0–.90 19.40S 168.05E 10 4.3b,4.1
ISCJB I 01 04 55 42.2–.91 19.4S–.10 168.0E–.20 26 4.2b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 01 11 44 28.8–1.4 19.9S–.10 168.1E–.20 26 4.1b 10 3-90
IDC I 01 11 44 24.7–1.7 19.67S 168.11E 0 4.5,4.3 **¶17189132**
ISCJB I 01 11 44 27.3–1.3 19.7S–.10 168.1E–.20 26 4.1b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 01 12 49 02.8–.74 19.7S–.10 168.2E–.10 26 4.4b 27 3-148
IDC I 01 12 48 58.4–.77 19.58S 168.30E 0 4.5,4.4 **¶16002850**
NEIC I 01 12 48 59.7–.60 19.60S 168.28E 10 4.4b,4.4
ISCJB I 01 12 49 01.4–.62 19.63S–.08 168.1E–.10 26 4.3b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 01 23 22 46.3–.62 19.7S–.10 168.2E–.10 26 4.3b,4.0s 32 3-165
IDC I 01 23 22 42.6–.79 19.60S 168.19E 0 4.5,4.3 **¶15925531**
ISCJB I 01 23 22 44.8–.51 19.70S–.07 168.14E–.09 26 4.3b,3.9s
NEIC I 01 23 22 44.0–.43 19.59S 168.18E 10 4.4b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=26.8km s-min=18.1km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=8.2km az=37.1.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=8.7km az=148.0.
ISC I 02 02 08 11.8–.78 19.5S–.10 168.4E–.10 35 4.4b,3.5s 34 3-166
IDC I 02 02 08 07.7–.89 19.30S 168.28E 0 4.4,4.2L **¶15981212**
NEIC I 02 02 08 09.1–.55 19.34S 168.32E 10 4.6b,4.2L
ISCJB I 02 02 08 10.9–.62 19.45S–.07 168.27E–.10 33 4.3b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 02 04 16 00.2–1.3 13.09S 167.59E 0 4.1,3.9
¶17189184

IDC Error ellipse: s-maj=46.3km s-min=27.4km az=131.0.
ISC I 02 13 50 52.4–3.7 19.8S–.20 168.2E–.60 27 3.9b 6 3-87
IDC I 02 13 50 48.3–4.2 19.71S 168.16E 0 4.0,3.8 **¶15964329**
NEIC I 02 13 50 50.0–2.7 19.75S 168.14E 10 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=98.7km s-min=38.1km az=115.0.
NEIC Event type se. Error ellipse: s-maj=57.3km s-min=21.5km az=104.0.
ISC I 02 15 54 23.7–1.3 17.8S–.10 168.2E–.30 32 4.0b 14 5-146
IDC I 02 15 54 18.9–1.6 17.63S 168.13E 0 4.1,4.0b **¶15964334**
ISCJB I 02 15 54 22.0–1.3 17.81S–.09 168.1E–.20 32 3.9b,4.0b
NEIC I 02 15 54 24.2–1.0 17.70S 168.10E 35 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=49.9km s-min=24.5km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=34.7km s-min=10.2km az=12.6.
NEIC Event type se. Error ellipse: s-maj=31.7km s-min=15.5km az=114.0.
ISC I 03 02 31 30.4–.69 13.13S–.07 166.72E–.10 50 4.2b 30 8-165
ISCJB I 03 02 31 28.8–.56 13.18S–.05 166.62E–.08 50 4.2b,3.7s **¶15968904**
IDC I 03 02 31 30.4–2.7 13.16S 166.71E 50–24 4.5L,4.2
NEIC I 03 02 31 31.1–1.6 13.11S 166.72E 56–13 4.0b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.4km az=166.3.
IDC Error ellipse: s-maj=20.3km s-min=15.8km az=84.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=11.5km az=105.0.
IDC I 03 06 06 38.3–15 19.70S 169.49E 0 3.8,3.6
¶17189298

IDC Error ellipse: s-maj=272.2km s-min=81.8km az=98.0.
IDC I 03 09 36 47.4–4.1 19.37S 168.12E 0 4.3,4.1
¶17189318

IDC Error ellipse: s-maj=87.4km s-min=39.6km az=110.0.
IDC I 03 10 13 30.3–2.1 19.42S 168.06E 0 4.0,3.9
¶17189321

IDC Error ellipse: s-maj=64.2km s-min=27.0km az=129.0.
ISC I 03 16 05 36.1–.98 19.4S–.10 168.0E–.20 26 4.2b,3.2s 19 3-147
IDC I 03 16 05 32.0–1.2 19.43S 168.04E 0 4.2,4.1 **¶15964340**
NEIC I 03 16 05 33.4–.72 19.43S 168.05E 10 4.1b,4.1
ISCJB I 03 16 05 35.1–.91 19.40S–.08 167.9E–.10 26 4.0b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 03 17 07 42.8–41 17.19S 167.49E 0 4.3,4.2
¶17189344

IDC Error ellipse: s-maj=706.8km s-min=106.4km az=73.0.
IDC I 04 01 27 34.8–13 14.87S 165.81E 0 3.9,3.9L
¶17189376

IDC Error ellipse: s-maj=231.1km s-min=36.7km az=56.0.
ISC I 04 06 31 02.4–.51 14.50S–.08 167.3E–.10 170 4.0b 39 8-166
ISCJB I 04 06 31 01.3–.48 14.47S–.06 167.25E–.09 170 4.2b **¶16021250**
IDC I 04 06 31 02.0–3.2 14.51S 167.40E 165–28 4.3,4.1
NEIC I 04 06 31 06.3–1.3 14.64S 167.33E 205–12 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.2km az=11.5.
IDC Error ellipse: s-maj=17.8km s-min=16.6km az=35.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=10.8km az=183.0.
ISC I 04 07 44 11.6–3.2 19.9S–.20 168.3E–.40 26 4.1b 7 3-87
IDC I 04 07 44 07.7–3.9 19.69S 168.24E 0 4.1,4.0 **¶17189401**
ISC Event type ke.
IDC Error ellipse: s-maj=82.1km s-min=38.5km az=113.0.
IDC I 04 15 36 26.8–12 18.84S 167.97E 0 4.0,3.8
¶17189438

IDC Error ellipse: s-maj=218.6km s-min=42.0km az=83.0.
IDC I 05 04 57 17.2–10 17.63S 168.79E 155–145 3.8,3.5
¶17189478

IDC Error ellipse: s-maj=222.9km s-min=38.0km az=152.0.
ISC I 05 12 35 10.7–.82 19.5S–.10 168.0E–.20 26 4.0b,3.4s 17 3-144
IDC I 05 12 35 07.1–1.2 19.47S 167.98E 0 4.2,4.0 **¶16007250**
NEIC I 05 12 35 08.2–.85 19.47S 168.08E 10 4.0b,4.0
ISCJB I 05 12 35 09.7–.66 19.49S–.08 167.9E–.10 26 3.9b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 05 21 06 14.0–.61 19.52S–.08 168.0E–.10 26 4.1b,3.9s 28 3-165
IDC I 05 21 06 10.0–.83 19.39S 168.04E 0 4.2,4.2L **¶15930107**
ISCJB I 05 21 06 12.8–.54 19.53S–.06 167.96E–.09 26 4.1b,3.9s
NEIC I 05 21 06 12.0–.49 19.48S 167.97E 10 4.7b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=20.5km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=8.3km az=18.2.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=10.9km az=71.0.
ISC I 05 21 13 21.1–.70 19.69S–.10 168.3E–.10 35 4.1b 24 3-166
IDC I 05 21 13 15.8–.90 19.61S 168.34E 0 4.3,4.2 **¶16031109**
NEIC I 05 21 13 17.1–.55 19.60S 168.35E 10 4.6b,4.2
ISCJB I 05 21 13 19.3–.58 19.69S–.08 168.3E–.10 33 4.1b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 05 22 18 11.3–.66 18.8S–.10 169.1E–.10 147 3.8b 28 4-167
ISCJB I 05 22 18 10.2–.67 18.78S–.09 169.0E–.10 147 3.8b **¶17189549**
IDC I 05 22 18 12.4–2.9 18.88S 169.05E 157–27 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=9.6km az=34.1.
IDC Error ellipse: s-maj=28.1km s-min=18.7km az=174.0.

ISC I 06 16 17 56.5–.32 19.50S–.05 168.22E–.06 26 5.2b,4.1s 189 3-166
NEIC I 06 16 17 52.6–1.4 19.50S 168.33E 4–8 5.2b,4.1s **¶16021260**
IDC I 06 16 17 52.1–.74 19.51S 168.34E 0 5.0,5.0b
ISCJB I 06 16 17 54.8–.22 19.53S–.03 168.28E–.04 26 5.1b,4.2s
MOS I 06 16 17 56.3–1.3 19.56S 168.50E 46 5.1b,4.2s
BJI I 06 16 18 03.2 19.37S 168.07E 86 5.1b,5.1s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.3km az=62.0.
IDC Error ellipse: s-maj=21.0km s-min=15.8km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=0.5.
MOS Error ellipse: s-maj=11.7km s-min=9.9km az=165.3.
ISC I 06 16 22 16.0–1.0 19.5S–.10 168.3E–.10 35 4.5b 19 3-91
IDC I 06 16 22 10.3–1.3 19.49S 168.47E 0 4.6,4.4 **¶16021262**
NEIC I 06 16 22 12.1–.83 19.45S 168.40E 10 4.8b,4.4
ISCJB I 06 16 22 14.0–.84 19.55S–.08 168.4E–.10 33 4.5b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 06 22 12 54.9–.54 19.67S–.10 168.60E–.09 35 4.4b,3.9s 30 3-166
IDC I 06 22 12 49.8–1.2 19.65S 168.60E 0 4.5,4.3 **¶15930112**
ISCJB I 06 22 12 53.0–.47 19.64S–.07 168.60E–.07 33 4.4b,3.8s
NEIC I 06 22 12 53.1–2.8 19.66S 168.63E 23–20 4.5b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=45.9km s-min=19.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=7.9km az=138.8.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.6km az=170.0.
IDC I 07 04 27 12.7–11 19.44S 168.06E 0 3.9,3.8b
¶17189620

IDC Error ellipse: s-maj=203.5km s-min=43.1km az=90.0.
ISC I 07 05 55 06.6–.36 19.84S–.06 168.29E–.07 25 5.2b,4.1s 308 3-166
IDC I 07 05 55 02.0–.52 19.95S 168.35E 0 4.8,4.7 **¶15908422**
GCMT I 07 05 55 04.3–.30 20.02S 168.22E 20–1 5.0W,4.7
NEIC I 07 05 55 04.3–.15 19.84S 168.32E 10 5.3b,4.7
ISCJB I 07 05 55 05.2–.15 19.87S–.04 168.27E–.03 25 5.2b,4.1s
MOS I 07 05 55 08.0–1.4 19.95S 168.20E 49 5.0b,4.2s
BJI I 07 05 55 11.3 19.90S 168.30E 78 5.2b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=13.4km az=128.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c36; s77,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.70±.24 $M_{\theta\theta}$0.62±.14; $M_{\phi\phi}$3.08±.15; $M_{r\theta}$-0.91±.35; $M_{\theta\phi}$-0.09±.11; $M_{\phi r}$-0.72±.26; Best double couple: NP1:ϕ_s10.00000°,δ52.00000°,λ-76.00000°. NP2:ϕ_s168.00000°,δ40.00000°,λ-108.00000°. Principal axes: T 3.1570,Plg6.0000°,Azm90.0000°; N 0.8060,Plg11.0000°,Azm181.0000°; P -3.9600,Plg77.0000°,Azm332.0000° $M_0$3.55800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.4km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.6km az=145.1.
MOS Error ellipse: s-maj=12.0km s-min=10.9km az=48.9.
ISC I 07 13 25 36.0–.37 14.50S–.06 167.29E–.07 200 4.5b 149 8-166
ISCJB I 07 13 25 34.6–.30 14.49S–.05 167.32E–.06 200 4.5b **¶16021269**
NEIC I 07 13 25 34.8–1.1 14.43S 167.29E 191–9 4.6b
BJI I 07 13 25 35.7 14.08S 167.63E 206 4.9b,4.7b
MOS I 07 13 25 37.2–1.3 14.53S 167.26E 221 4.7b,4.7b
IDC I 07 13 25 38.8–1.4 14.55S 167.24E 225–13 4.7,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=38.9.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=7.0km az=135.0.
MOS Error ellipse: s-maj=11.9km s-min=10.0km az=23.9.
IDC Error ellipse: s-maj=10.2km s-min=8.4km az=149.0.
ISC I 07 18 09 50.7–1.3 19.3S–.10 168.2E–.20 20 4.5b,3.5s 19 3-101
IDC I 07 18 09 48.0–1.1 19.20S 168.24E 0 4.4,4.3 **¶16021266**
ISCJB I 07 18 09 49.4–.77 19.24S–.07 168.2E–.10 20 4.4b,3.6s
NEIC I 07 18 09 49.1–.97 19.13S 168.24E 10 4.7b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=20.6km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=17.7km s-min=9.1km az=16.1.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=17.4km az=100.0.
ISC I 07 19 09 07.8–.24 19.95S–.05 168.09E–.05 27 5.3b,4.4s 591 3-166
IDC I 07 19 09 03.8–.35 19.92S 168.16E 0 5.2,5.1 **¶15909036**
NEIC I 07 19 09 05.2–.14 19.87S 168.14E 10 5.4b,5.1
GCMT I 07 19 09 05.2–.20 19.91S 167.90E 23–0 5.2W,5.1
ISCJB I 07 19 09 06.7–.12 19.90S–.03 168.07E–.02 27 5.3b,4.4s
MOS I 07 19 09 07.5–1.2 19.92S 168.16E 33 5.4b,4.2s
BJI I 07 19 09 15.1 19.28S 167.47E 62 5.2b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=12.2km az=114.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.2km az=100.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c87; s91,c153; Duration: 1ş0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.74±.03 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$0.85±.02; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$0.27±.03; Best double couple: NP1:ϕ_s164.00000°,δ55.00000°,λ-93.00000°. NP2:ϕ_s349.00000°,δ36.00000°,λ-86.00000°. Principal axes: T 0.9630,Plg10.0000°,Azm256.0000°; N -0.1760,Plg2.0000°,Azm166.0000°; P -0.7870,Plg80.0000°,Azm62.0000° $M_0$0.87500×10^{17}
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.1km az=154.0.
MOS Error ellipse: s-maj=10.1km s-min=8.5km az=40.7.
ISC I 08 06 05 45.3–2.5 19.4S–.20 168.3E–.40 35 3.8b 8 3-101
IDC I 08 06 05 40.0–2.5 19.37S 168.29E 0 4.0,3.9 **¶17189672**
ISC Event type ke.
IDC Error ellipse: s-maj=61.6km s-min=28.0km az=122.0.
ISC I 08 19 01 21.8–1.5 19.81S–.06 168.10E–.05 26–10 5.1b,3.9s 329 3-165
ISCJB I 08 19 01 16.8–2.3 19.76S–.04 168.07E–.03 2–14 5.0b,4.0s **¶15910779**
IDC I 08 19 01 18.0–.47 19.77S 168.12E 0 4.7,4.7
NEIC I 08 19 01 19.6–.13 19.74S 168.10E 10 5.2b,4.7
GCMT I 08 19 01 19.6–.40 19.77S 167.93E 21–1 4.9W,4.7
MOS I 08 19 01 21.6–1.2 19.88S 168.08E 33 5.0b,4.7
BJI I 08 19 01 22.2 19.43S 168.23E 30 5.3s,5.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.3km az=148.2.
IDC Error ellipse: s-maj=14.7km s-min=11.2km az=119.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.8km az=154.0.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s63,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.68±.22 $M_{\theta\theta}$0.47±.12; $M_{\phi\phi}$2.21±.13; $M_{r\theta}$-0.36±.29; $M_{\theta\phi}$-0.23±.09; $M_{\phi r}$0.69±.19; Best double couple: NP1:ϕ_s167.00000°,δ53.00000°,λ-96.00000°. NP2:ϕ_s357.00000°,δ37.00000°,λ-83.00000°. Principal axes: T 2.3480,Plg8.0000°,Azm261.0000°; N 0.4600,Plg4.0000°,Azm171.0000°; P -2.8080,Plg81.0000°,Azm53.0000° $M_0$2.57800×10^{16}
MOS Error ellipse: s-maj=11.1km s-min=9.3km az=7.6.
ISC I 08 22 19 33.0–.97 19.6S–.20 168.3E–.20 10 3.9b 12 3-144
ISCJB I 08 22 19 31.7–.79 19.5S–.10 168.2E–.20 10 3.8b **¶602426836**
IDC I 08 22 19 31.6–1.5 19.47S 168.22E 0 4.1,3.8
NEIC I 08 22 19 33.1–.59 19.49S 168.25E 10 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=30.7km s-min=9.6km az=33.2.
IDC Error ellipse: s-maj=58.9km s-min=25.0km az=141.0.
NEIC Event type se. Error ellipse: s-maj=25.4km s-min=10.8km az=135.0.
IDC I 09 05 31 26.6–2.2 19.19S 168.04E 0 3.9,3.6
¶17189739

IDC Error ellipse: s-maj=66.8km s-min=31.7km az=132.0.
ISC I 09 10 03 43.6–.30 19.28S–.03 168.38E–.03 21–3 6.4s,6.0b 1577 3-166
BJI I 09 10 03 40.8 18.96S 168.45E 10 6.5s,6.4 **¶15910807**
IDC I 09 10 03 40.3–.27 19.26S 168.33E 0 6.3,6.3s
MOS I 09 10 03 41.4–1.3 19.19S 168.30E 33 6.3s,6.0b
NEIC I 09 10 03 44.0–.09 19.16S 168.31E 22 6.6,6.6W
ISCJB I 09 10 03 44.1–.85 19.19S–.02 168.28E–.02 33–7 6.4s,6.0b
GCMT I 09 10 03 44.3–.10 19.20S 168.13E 13–0 6.5W,6.0b
NEIC I 09 10 03 44.0–.00 19.16S 168.33E 17 6.5W,6.0b
NEIC I 09 10 04 04.7–.00 18.92S 167.79E 20 6.5W,6.0b
ISC Event type fe.
IDC Error ellipse: s-maj=10.5km s-min=9.5km az=70.0.

MOS Error ellipse: s-maj=6.6km s-min=6.0km az=112.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.2km az=144.0. Felt [III] at Port-Vila. Also felt at Isangel. Felt at Noumea, New Caledonia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.30000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s355.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000° ,Azm265.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=18.7.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c374; s145,c644;Duration: 4s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-6.57±.03 $M_{\theta\theta}$6.55±.03; $M_{\phi\phi}$0.01±.03; $M_{r\theta}$-1.62±.07; $M_{\theta\phi}$-1.34±.02; $M_{\phi r}$-1.98±.08; Best double couple: NP1:ϕ_s84.00000°,δ53.00000°,λ-112.00000°. NP2:ϕ_s298.00000° ,δ42.00000°,λ-64.00000°. Principal axes: T 6.9280,Plg5.0000°,Azm189.0000° ; N 0.4540,Plg17.0000°,Azm98.0000°; P -7.3850,Plg72.0000°,Azm296.0000° $M_0$7.15700×10^{18}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.99 $M_{\theta\theta}$5.90 $M_{\phi\phi}$0.08 $M_{r\theta}$-3.88 $M_{\theta\phi}$-0.58 $M_{\phi r}$-0.73 Best double couple: NP1:ϕ_s86.00000° ,δ61.00000°,λ-98.00000°. NP2:ϕ_s283.00000°,δ29.00000°,λ-75.00000°. Principal axes: T 7.0700,Plg16.0000°,Azm183.0000°; N 0.1700,Plg7.0000°,Azm91.0000° ; P -7.2500,Plg72.0000°,Azm338.0000° $M_0$7.20000×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ31.00000° ,λ-139.00000°. NP2:ϕ_s140.00000°,δ70.00000°,λ-65.00000°. Principal axes: T 0.8500,Plg21.0000°,Azm211.0000°; N 0.3900,Plg23.0000°,Azm311.0000° ; P -1.2400,Plg57.0000°,Azm84.0000°

ISC	**I**	**09 10 05 57.5–1.5**	**19.5S–.20**	**168.7E–.30**	**35**	**5.0b**	**11**	**3-125**	
IDC	I	09 10 05 51.9–1.8	19.51S	168.74E	0	5.2,5.0			¶17189747
ISCJB	I	09 10 05 56.5–1.5	19.4S–.20	168.5E–.30	33	4.9b,5.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**I**	**09 10 09 04.2–2.2**	**19.50S**	**168.75E**	**0**	**4.7,4.6**			¶17189748
IDC	Error ellipse: s-maj=70.4km s-min=28.6km az=125.0.								
IDC	**I**	**09 10 13 14.0–2.5**	**19.25S**	**168.49E**	**0**	**4.4,4.1**			¶17189749
IDC	Error ellipse: s-maj=80.3km s-min=33.3km az=134.0.								
ISC	**I**	**09 10 14 17.7–1.9**	**19.4S–.20**	**168.5E–.30**	**35**	**4.2b**	**7**	**3-101**	
IDC	I	09 10 14 13.2–1.4	19.15S	168.38E	0	4.5,4.3			¶17189752
ISCJB	I	09 10 14 16.2–1.2	19.3S–.10	168.4E–.20	33	4.2b,4.3			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 10 15 45.6–.58**	**19.23S–.09**	**168.3E–.10**	**35**	**4.6b**	**33**	**3-147**	
IDC	I	09 10 15 40.2–.69	19.21S	168.31E	0	4.6,4.5			¶16007251
NEIC	I	09 10 15 41.8–.42	19.16S	168.30E	10	4.9b,4.5			
ISCJB	I	09 10 15 43.7–.46	19.22S–.07	168.26E–.08	33	4.5b,4.5			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 19 23.6–.61**	**19.30S–.09**	**168.32E–.10**	**35**	**4.5b**	**29**	**3-147**	
IDC	I	09 10 19 18.8–.66	19.14S	168.21E	0	4.5,4.4			¶16007252
NEIC	I	09 10 19 19.9–.49	19.23S	168.32E	10	4.8b,4.4			
ISCJB	I	09 10 19 22.4–.55	19.25S–.06	168.17E–.09	33	4.4b,4.4			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 20 11.1–.71**	**19.44S–.09**	**168.5E–.10**	**35**	**4.3b**	**24**	**3-148**	
IDC	I	09 10 20 05.7–.92	19.34S	168.44E	0	4.5,4.5L			¶16007255
NEIC	I	09 10 20 07.9–.64	19.25S	168.38E	10	4.7b,4.5L			
ISCJB	I	09 10 20 09.9–.58	19.39S–.07	168.33E–.08	33	4.3b,4.5L			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 30 24.9–1.3**	**19.5S–.20**	**168.5E–.20**	**42**	**4.4b**	**16**	**3-166**	
IDC	I	09 10 30 19.3–1.2	19.20S	168.32E	0	4.5,4.3			¶16007257
NEIC	I	09 10 30 21.3–.80	19.26S	168.30E	10	4.6b,4.3			
ISC	Event type se.								
IDC	Error ellipse: s-maj=32.4km s-min=25.3km az=124.0.								
NEIC	Event type se. Error ellipse: s-maj=20.1km s-min=16.2km az=132.0.								
ISC	**I**	**09 10 33 18.0–.53**	**19.40S–.08**	**168.32E–.10**	**35**	**4.8b**	**45**	**3-166**	
IDC	I	09 10 33 12.9–.68	19.35S	168.34E	0	4.7,4.6			¶16007258
NEIC	I	09 10 33 14.4–.34	19.28S	168.34E	10	4.9b,4.6			
ISCJB	I	09 10 33 16.4–.38	19.39S–.06	168.27E–.07	33	4.7b,4.6			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 39 51.9–1.3**	**19.4S–.20**	**168.8E–.20**	**35**	**3.9b**	**14**	**3-95**	
IDC	I	09 10 39 47.5–2.2	19.21S	168.63E	0	4.2,4.1			¶16007259
NEIC	I	09 10 39 48.3–1.1	19.30S	168.74E	10	4.4b,4.1			
ISCJB	I	09 10 39 50.5–1.2	19.4S–.10	168.6E–.20	33	4.1b,4.1			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 42 03.8–1.2**	**19.4S–.20**	**168.3E–.30**	**35**	**4.0b**	**9**	**3-91**	
IDC	I	09 10 41 58.5–1.4	19.27S	168.36E	0	4.4,4.1			¶17189755
ISCJB	I	09 10 42 02.2–1.1	19.3S–.10	168.3E–.20	33	4.1b,4.1			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 10 47 31.6–.52**	**19.22S–.08**	**168.22E–.09**	**35**	**4.6b**	**42**	**3-166**	
IDC	I	09 10 47 26.3–.60	19.15S	168.25E	0	4.6,4.5			¶16007260
NEIC	I	09 10 47 28.0–.38	19.17S	168.26E	10	4.7b,4.5			
ISCJB	I	09 10 47 29.9–.40	19.20S–.06	168.17E–.07	33	4.5b,4.5			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 53 40.7–.76**	**19.4S–.10**	**168.4E–.20**	**35**	**4.4b**	**27**	**3-148**	
IDC	I	09 10 53 34.3–1.1	19.55S	168.65E	0	4.5,4.3			¶16007261
NEIC	I	09 10 53 37.0–.55	19.28S	168.45E	10	4.7b,4.3			
ISCJB	I	09 10 53 39.2–.60	19.37S–.07	168.3E–.10	33	4.4b,4.3			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 10 58 32.0–1.1**	**19.4S–.10**	**168.4E–.20**	**35**	**4.1b**	**16**	**3-148**	
IDC	I	09 10 58 26.6–1.3	19.39S	168.39E	0	4.3,4.2L			¶16007262
NEIC	I	09 10 58 28.4–.65	19.29S	168.37E	10	4.6b,4.2L			
ISCJB	I	09 10 58 30.7–.90	19.39S–.08	168.3E–.10	33	4.2b,4.2L			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 11 20 29.1–1.0**	**19.4S–.20**	**168.4E–.20**	**35**	**4.3b**	**18**	**3-147**	
IDC	I	09 11 20 23.6–1.2	19.40S	168.50E	0	4.4,4.2			¶16007263
NEIC	I	09 11 20 25.0–.86	19.42S	168.55E	10	4.6b,4.2			
ISCJB	I	09 11 20 27.7–.91	19.3S–.10	168.3E–.20	33	4.3b,4.2			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 11 30 03.3–1.5**	**19.5S–.20**	**168.7E–.30**	**35**	**4.0b**	**15**	**3-144**	
IDC	I	09 11 29 58.3–1.8	19.43S	168.61E	0	4.3,4.1			¶16007264
NEIC	I	09 11 29 59.4–1.1	19.45S	168.71E	10	4.1b,4.1			
ISCJB	I	09 11 30 01.7–1.6	19.4S–.10	168.6E–.20	33	4.0b,4.1			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 11 40 41.3–1.2**	**19.4S–.10**	**168.4E–.20**	**35**	**3.9b**	**10**	**3-144**	
IDC	I	09 11 40 35.5–1.3	19.25S	168.44E	0	4.1,3.9			¶17189757
ISCJB	I	09 11 40 39.8–.99	19.30S–.09	168.2E–.10	33	3.9b,3.9			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 12 00 20.5–.68**	**19.34S–.09**	**168.4E–.10**	**35**	**4.4b**	**35**	**3-166**	
IDC	I	09 12 00 15.0–.75	19.27S	168.46E	0	4.6,4.5			¶16007266
NEIC	I	09 12 00 16.8–.59	19.22S	168.44E	10	4.7b,4.5			
ISCJB	I	09 12 00 18.8–.58	19.35S–.07	168.38E–.09	33	4.5b,4.1s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
IDC	**I**	**09 12 10 10.2–2.5**	**19.33S**	**168.32E**	**0**	**3.9,3.6**			¶17189760
IDC	Error ellipse: s-maj=69.5km s-min=29.1km az=127.0.								
IDC	**I**	**09 12 49 01.8–2.3**	**19.12S**	**168.41E**	**0**	**4.2,3.9**			¶17189765
IDC	Error ellipse: s-maj=74.9km s-min=31.5km az=135.0.								
IDC	**I**	**09 12 58 36.8–2.2**	**19.26S**	**168.42E**	**0**	**4.0,3.8**			¶17189766
IDC	Error ellipse: s-maj=60.1km s-min=26.9km az=132.0.								
ISC	**I**	**09 13 00 18.0–.39**	**19.52S–.07**	**168.48E–.08**	**35**	**5.0b,4.7s**	**174**	**3-166**	
IDC	I	09 13 00 12.5–.48	19.37S	168.50E	0	4.7,4.6			¶15910812
NEIC	I	09 13 00 14.2–.21	19.34S	168.44E	10	5.1b,4.6			
GCMT	I	09 13 00 14.2–.50	19.11S	168.56E	38–0	5.7W,4.6			
BJI	I	09 13 00 15.7	18.81S	168.47E	12	5.3b,5.2s			
ISCJB	I	09 13 00 16.6–.22	19.47S–.05	168.34E–.05	33	4.9b,4.7s			
ISC	Event type se.								
NEIC	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c35; s62,c87;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.48±.28 $M_{\theta\theta}$2.74±.16; $M_{\phi\phi}$1.74±.16; $M_{r\theta}$-0.16±.11; $M_{\theta\phi}$-1.19±.08; $M_{\phi r}$-0.02±.12; Best double couple: NP1:ϕ_s122.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s305.00000° ,δ44.00000°,λ-88.00000°. Principal axes: T 3.5330,Plg1.0000°,Azm214.0000° ; N 0.9510,Plg1.0000°,Azm124.0000°; P -4.4840,Plg89.0000°,Azm341.0000° $M_0$4.00800×10^{17}								
ISCJB	Event type se.								
ISC	**I**	**09 13 18 48.0–.96**	**19.4S–.20**	**168.4E–.20**	**35**	**4.1b**	**14**	**3-101**	
IDC	I	09 13 18 42.5–1.0	19.35S	168.42E	0	4.3,4.1			¶16150875
NEIC	I	09 13 18 44.3–.75	19.36S	168.41E	10	4.3b,4.1			
ISCJB	I	09 13 18 46.5–.90	19.4S–.10	168.3E–.20	33	4.1b,4.1			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
IDC	**I**	**09 13 29 02.0–2.2**	**19.10S**	**168.29E**	**0**	**3.9s,3.9**			¶17189768
IDC	Error ellipse: s-maj=69.9km s-min=29.1km az=131.0.								
ISC	**I**	**09 13 32 29.2–1.2**	**19.4S–.20**	**168.5E–.20**	**35**	**3.8b**	**11**	**3-144**	
IDC	I	09 13 32 24.7–1.1	19.11S	168.35E	0	4.5s,4.5			¶17189769
ISCJB	I	09 13 32 28.3–.84	19.29S–.09	168.3E–.10	33	4.4s,3.9b			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 14 22 44.6–.36**	**19.41S–.06**	**168.31E–.07**	**35**	**4.9b,3.9s**	**206**	**3-166**	
IDC	I	09 14 22 38.6–.53	19.37S	168.39E	0	4.8,4.6			¶15910814
BJI	I	09 14 22 40.3	18.95S	168.59E	13	5.2b,5.1s			
NEIC	I	09 14 22 40.7–.24	19.25S	168.31E	10	4.9b,5.1s			
ISCJB	I	09 14 22 43.1–.26	19.33S–.04	168.24E–.05	33	4.9b,4.0s			
MOS	I	09 14 22 43.1–1.2	19.28S	168.21E	33	4.9b,4.0s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=17.8km s-min=14.7km az=111.0.								
NEIC	Event type se. Error ellipse: s-maj=8.1km s-min=6.8km az=142.0.								
ISCJB	Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=37.4.								
MOS	Error ellipse: s-maj=11.8km s-min=10.5km az=23.4.								
ISC	**I**	**09 14 41 55.6–1.6**	**19.4S–.20**	**168.4E–.30**	**35**	**3.7b**	**9**	**3-144**	
IDC	I	09 14 41 50.8–1.9	19.19S	168.36E	0	4.0,3.8			¶17189771
ISCJB	I	09 14 41 53.7–1.8	19.4S–.20	168.4E–.30	33	3.8b,3.8			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 14 46 08.3–1.8**	**19.3S–.20**	**168.5E–.30**	**35**	**3.7b**	**7**	**3-101**	
IDC	I	09 14 46 03.6–2.0	19.02S	168.32E	0	4.1,3.9L			¶17189772
ISCJB	I	09 14 46 06.5–1.8	19.3S–.20	168.4E–.30	33	3.8b,3.9L			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 14 54 45.5–.55**	**19.45S–.04**	**168.41E–.05**	**24–3**	**5.3s,5.1b**	**462**	**3-166**	
IDC	I	09 14 54 41.2–.39	19.39S	168.46E	0	5.0,5.0s			¶15910815
BJI	I	09 14 54 42.7	19.14S	168.37E	10	5.5b,5.4s			
GCMT	I	09 14 54 43.2–.20	19.28S	168.36E	27–0	5.4W,5.4s			
NEIC	I	09 14 54 43.2–.18	19.30S	168.41E	10	5.5W,5.4b			
ISCJB	I	09 14 54 44.0–1.8	19.32S–.03	168.36E–.03	21–12	5.2s,5.1b			
MOS	I	09 14 54 45.5–1.4	19.39S	168.44E	33	5.2b,5.2s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=13.5km s-min=11.9km az=131.0.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c122; s104,c169; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.03 $M_{\theta\theta}$0.49±.02; $M_{\phi\phi}$0.21±.02; $M_{r\theta}$0.09±.04; $M_{\theta\phi}$-0.69±.01; $M_{\phi r}$-1.24±.06; Best double couple: NP1:ϕ_s344.00000°,δ75.00000° ,λ-63.00000°. NP2:ϕ_s100.00000°,δ30.00000°,λ-150.00000°. Principal axes: T 1.4760,Plg26.0000°,Azm53.0000°; N 0.1430,Plg26.0000°,Azm156.0000° ; P -1.6180,Plg52.0000°,Azm285.0000° $M_0$1.54700×10^{17}								
NEIC	Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=105.0. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.84 $M_{\theta\theta}$0.72 $M_{\phi\phi}$0.12 $M_{r\theta}$1.09 $M_{\theta\phi}$-0.59 $M_{\phi r}$-1.34 Best double couple: NP1:ϕ_s319.00000°,δ76.00000°,λ-79.00000°. NP2:ϕ_s100.00000° ,δ18.00000°,λ-128.00000°. Principal axes: T 2.0500,Plg30.0000°,Azm40.0000° ; N -0.1300,Plg11.0000°,Azm136.0000°; P -1.9200,Plg57.0000°,Azm244.0000° $M_0$2.00000×10^{17}								
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=4.8km az=32.1.								
MOS	Error ellipse: s-maj=9.7km s-min=8.4km az=109.7.								
ISC	**I**	**09 14 56 33.5–1.2**	**19.3S–.10**	**168.4E–.30**	**35**	**4.4b**	**9**	**3-101**	
IDC	I	09 14 56 28.2–1.1	19.24S	168.54E	0	4.7,4.5			¶17189775
ISCJB	I	09 14 56 31.3–1.1	19.3S–.10	168.4E–.30	33	4.5b,4.5			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**09 15 07 52.1–.86**	**19.4S–.10**	**168.4E–.20**	**35**	**3.9b**	**16**	**3-144**	
IDC	I	09 15 07 46.7–.93	19.42S	168.47E	0	4.2,4.0			¶15994799
NEIC	I	09 15 07 48.4–.60	19.42S	168.42E	10	4.3b,4.0			
ISCJB	I	09 15 07 50.3–.79	19.40S–.09	168.4E–.10	33	4.0b,4.0			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 15 26 59.9–.62**	**19.5S–.10**	**168.2E–.10**	**26**	**4.3b,3.9s**	**26**	**3-166**	
IDC	I	09 15 26 55.3–.62	19.34S	168.22E	0	4.4,4.3			¶15994801
NEIC	I	09 15 26 56.9–.48	19.35S	168.22E	10	4.8b,4.3			
ISCJB	I	09 15 26 58.1–.52	19.45S–.07	168.10E–.10	26	4.2b,3.8s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 15 42 26.8–1.9**	**19.7S–.20**	**168.7E–.30**	**35**	**3.9b**	**10**	**3-91**	
IDC	I	09 15 42 21.7–2.2	19.60S	168.64E	0	4.2,4.0			¶15994802
NEIC	I	09 15 42 23.0–1.5	19.62S	168.72E	10	4.3b,4.0			
ISCJB	I	09 15 42 25.7–1.7	19.6S–.20	168.5E–.30	33	3.9b,4.0			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**09 15 55 04.3–.34**	**19.29S–.06**	**168.17E–.06**	**20**	**5.1b,4.5s**	**328**	**3-166**	
IDC	I	09 15 55 00.7–.49	19.26S	168.23E	0	4.8,4.8			¶15910817
ISCJB	I	09 15 55 03.0–.17	19.25S–.04	168.12E–.04	20	5.0b,4.5s			
GCMT	I	09 15 55 02.6–.10	19.26S	168.03E	12	5.2W,4.5s			
NEIC	I	09 15 55 02.6–.19	19.18S	168.18E	10	5.3b,4.5s			
BJI	I	09 15 55 02.0	19.10S	168.20E	10	5.5b,5.2s			
MOS	I	09 15 55 05.1–1.4	19.19S	168.11E	33	5.2b,4.3s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=14.8km s-min=12.8km az=112.0.								
ISCJB	Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=139.6.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s73,c100; s110,c183; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.01 $M_{\theta\theta}$0.50±.01; $M_{\phi\phi}$0.20±.01; $M_{r\theta}$-0.38±.03; $M_{\theta\phi}$-0.33±.01; $M_{\phi r}$0.03±.04; Best double couple: NP1:ϕ_s110.00000°,δ59.00000° ,λ-103.00000°. NP2:ϕ_s315.00000°,δ33.00000°,λ-69.00000°. Principal axes: T 0.7950,Plg13.0000°,Azm210.0000°; N 0.0280,Plg11.0000°,Azm117.0000° ; P -0.8230,Plg73.0000°,Azm348.0000° $M_0$0.80900×10^{17}								

NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.6km az=95.0.
MOS Error ellipse: s-maj=10.2km s-min=9.0km az=132.4.
IDC I 09 16 07 12.6–2.4 19.42S 168.60E 0 4.1,3.9
¶17189777
IDC Error ellipse: s-maj=72.6km s-min=29.1km az=136.0.
IDC I 09 16 12 36.8–2.3 19.31S 168.45E 0 4.0,3.8
¶17189778
IDC Error ellipse: s-maj=71.5km s-min=29.3km az=132.0.
ISC I 09 16 53 58.4–.74 19.57S–.10 168.6E–.10 35 4.1b 22 3-144
IDC I 09 16 53 52.7–.91 19.61S 168.72E 0 4.4,4.2 **¶15994805**
NEIC I 09 16 53 54.8–.54 19.50S 168.63E 10 4.4b,4.2
ISCJB I 09 16 53 56.8–.64 19.54S–.07 168.5E–.10 33 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 16 56 18.3–.54 19.41S–.08 168.46E–.10 35 4.5b 90 3-166
IDC I 09 16 56 13.1–.60 19.40S 168.46E 0 4.9s,4.9 **¶15994806**
NEIC I 09 16 56 14.2–.40 19.44S 168.55E 10 4.9b,4.9
ISCJB I 09 16 56 16.9–.48 19.35S–.05 168.39E–.08 33 4.8s,4.5b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 16 58 07.2–.33 19.35S–.05 168.29E–.06 35 5.2b,4.9s 345 3-166
IDC I 09 16 58 01.3–.41 19.30S 168.31E 0 4.8,4.8 **¶15910819**
BJI I 09 16 58 03.1 19.08S 168.38E 14 5.5b,5.3s
NEIC I 09 16 58 05.0–.55 19.16S 168.24E 18–3 5.2b,5.3s
MOS I 09 16 58 04.3–1.2 19.26S 168.18E 23 5.2b,4.5s
GCMT I 09 16 58 05.0–.20 19.30S 168.13E 12 5.3W,4.5s
ISCJB I 09 16 58 06.1–.15 19.24S–.03 168.15E–.03 33 5.0b,4.8s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c146; s86,c140;Duration: 1$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.98±.02 $M_{\theta\theta}$0.59±.02; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.54±.04; $M_{\theta\phi}$-0.68±.02; $M_{\phi r}$0.14±.05; Best double couple: NP1:ϕ_s117.00000°,δ59.00000°,λ-106.00000°. NP2:ϕ_s326.00000° ,δ34.00000°,λ-66.00000°. Principal axes: T 1.2930,Plg13.0000°,Azm219.0000° ; N -0.1420,Plg13.0000°,Azm126.0000°; P -1.1510,Plg71.0000°,Azm350.0000° $M_0$1.22200×10^{17}
ISCJB Event type se.
ISC I 09 17 03 59.2–1.2 19.34S–.09 168.1E–.20 35 3.8b 13 3-144
IDC I 09 17 03 53.9–1.4 19.36S 168.34E 0 4.2,4.1 **¶16057154**
NEIC I 09 17 03 55.1–.94 19.32S 168.21E 10 4.1b,4.1
ISCJB I 09 17 03 56.9–1.0 19.35S–.08 168.2E–.10 33 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 17 05 50.8–.68 19.6S–.10 168.4E–.10 35 4.2b 22 3-144
IDC I 09 17 05 46.0–1.1 19.48S 168.38E 0 4.5,4.2 **¶16057155**
NEIC I 09 17 05 47.0–.51 19.58S 168.45E 10 4.1b,4.2
ISCJB I 09 17 05 48.8–.55 19.60S–.07 168.48E–.10 33 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 17 21 54.0–.37 19.36S–.04 168.22E–.04 30–2 6.1s,5.5b 936 3-166
BJI I 09 17 21 49.2 19.18S 168.75E 17 6.2b,6.1s **¶15917521**
IDC I 09 17 21 49.2–.34 19.24S 168.26E 0 5.9,5.9s
NEIC I 09 17 21 51.6–.15 19.20S 168.16E 18 6.3,6.1W
GCMT I 09 17 21 51.7–.10 19.31S 168.13E 12 6.2W,6.1W
ISCJB I 09 17 21 52.9–2.1 19.30S–.03 168.20E–.03 31–15 6.1s,5.4b
MOS I 09 17 21 52.5–1.2 19.24S 168.15E 27 6.1s,5.5b
NEIC I 09 17 21 55.0–.00 19.08S 167.93E 15 6.1s,5.5b
NEIC I 09 17 22 09.5–.00 18.99S 167.76E 10 6.1s,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=11.8km az=88.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.3km az=122.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ62.00000°,λ-23.00000°. NP2: ϕ_s125.00000°,δ70.00000°,λ-150.00000°. Principal axes: T Plg5.0000°,Azm253.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm347.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c325; s143,c545;Duration: 3$0 Moment tensor: Scale 10^{18} Nm; M_{rr}-2.05±.01 $M_{\theta\theta}$0.94±.01; $M_{\phi\phi}$1.12±.01; $M_{r\theta}$-0.96±.03; $M_{\theta\phi}$-1.17±.01; $M_{\phi r}$0.25±.03; Best double couple: NP1:ϕ_s124.00000°,δ57.00000°,λ-105.00000°. NP2:ϕ_s331.00000° ,δ36.00000°,λ-68.00000°. Principal axes: T 2.3640,Plg11.0000°,Azm225.0000° ; N -0.0230,Plg13.0000°,Azm132.0000°; P -2.3340,Plg73.0000°,Azm354.0000° $M_0$2.34900×10^{18}
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=6.9.
MOS Error ellipse: s-maj=8.2km s-min=7.2km az=104.3.
NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.50 $M_{\theta\theta}$0.58 $M_{\phi\phi}$0.92 $M_{r\theta}$-0.99 $M_{\theta\phi}$-0.96 $M_{\phi r}$-0.05 Best double couple: NP1:ϕ_s116.00000° ,δ59.00000°,λ-116.00000°. NP2:ϕ_s341.00000°,δ39.00000°,λ-52.00000°. Principal axes: T 1.8400,Plg11.0000°,Azm226.0000°; N 0.1200,Plg23.0000°,Azm131.0000° ; P -1.9500,Plg64.0000°,Azm340.0000° $M_0$1.90000×10^{18}
NEIC Event type se. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.08 $M_{\theta\theta}$0.79 $M_{\phi\phi}$1.29 $M_{r\theta}$-0.52 $M_{\theta\phi}$-0.98 $M_{\phi r}$0.00 Best double couple: NP1:ϕ_s132.00000° ,δ50.00000°,λ-104.00000°. NP2:ϕ_s332.00000°,δ42.00000°,λ-74.00000°. Principal axes: T 2.0800,Plg4.0000°,Azm231.0000°; N 0.1000,Plg10.0000°,Azm140.0000° ; P -2.1800,Plg79.0000°,Azm344.0000° $M_0$2.10000×10^{18}
ISC I 09 17 46 39.8–1.1 19.4S–.10 168.4E–.20 35 3.8b 15 3-144
IDC I 09 17 46 35.2–.95 19.25S 168.33E 0 4.1,4.0 **¶17189781**
ISCJB I 09 17 46 38.4–.75 19.34S–.08 168.2E–.10 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 18 08 33.6–2.1 19.4S–.30 168.7E–.40 35 3.8b 7 3-91
IDC I 09 18 08 29.2–2.3 19.15S 168.53E 0 4.7,4.7s **¶17189783**
ISCJB I 09 18 08 32.3–1.8 19.4S–.20 168.5E–.40 33 3.8b,4.7s
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 18 21 09.6–.34 19.32S–.05 168.17E–.06 26 5.5s,5.1b 346 3-166
IDC I 09 18 21 05.8–.51 19.29S 168.15E 0 4.9s,4.9 **¶15910823**
NEIC I 09 18 21 06.8–.18 19.30S 168.01E 10 5.5s,5.1b
GCMT I 09 18 21 06.8–.20 19.28S 168.02E 17–0 5.5W,5.1b
ISCJB I 09 18 21 08.6–.16 19.29S–.03 168.07E–.03 26 5.4s,5.0b
BJI I 09 18 21 09.5 18.90S 168.00E 17 5.6b,5.4s
MOS I 09 18 21 09.7–1.0 19.28S 168.00E 33 5.2b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=118.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c82; s103,c172; Duration: 1$4 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.97±.08 $M_{\theta\theta}$1.62±.05; $M_{\phi\phi}$0.34±.04; $M_{r\theta}$-0.68±.10; $M_{\theta\phi}$-0.66±.03; $M_{\phi r}$0.10±.12; Best double couple: NP1:ϕ_s108.00000°,δ55.00000° ,λ-95.00000°. NP2:ϕ_s297.00000°,δ36.00000°,λ-83.00000°. Principal axes: T 2.0080,Plg9.0000°,Azm202.0000°; N 0.0800,Plg4.0000°,Azm111.0000° ; P -2.0930,Plg80.0000°,Azm357.0000° $M_0$2.05000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=137.6.
MOS Error ellipse: s-maj=11.5km s-min=10.2km az=121.4.
ISC I 09 18 53 38.2–1.0 19.4S–.10 168.5E–.20 35 4.0b 16 3-144
IDC I 09 18 53 33.6–1.0 19.34S 168.36E 0 4.4,4.2 **¶17189785**
ISCJB I 09 18 53 36.5–.73 19.40S–.08 168.4E–.10 33 4.1b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 19 24 29.0–.38 19.78S–.06 168.32E–.07 25 5.0b,4.9s 309 3-166
IDC I 09 19 24 24.9–.58 19.65S 168.25E 0 4.9,4.9 **¶15914923**
BJI I 09 19 24 26.5 19.55S 168.11E 10 5.4b,5.3s
NEIC I 09 19 24 26.2–.24 19.62S 168.20E 10 5.2b,5.3s
ISCJB I 09 19 24 27.6–.16 19.69S–.04 168.22E–.03 25 5.0b,4.7s
MOS I 09 19 24 28.8–1.3 19.70S 168.26E 33 5.1b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=14.2km az=98.0.

NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.8km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=147.1.
MOS Error ellipse: s-maj=11.1km s-min=10.1km az=22.5.
ISC I 09 20 44 50.2–1.8 19.4S–.20 168.4E–.30 35 3.9b 8 3-101
IDC I 09 20 44 44.8–2.0 19.48S 168.47E 0 4.2,4.0 **¶17189791**
ISCJB I 09 20 44 48.4–1.7 19.4S–.10 168.4E–.30 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 09 22 43 33.8–2.4 19.25S 168.29E 0 4.2,3.9
¶17189796
IDC Error ellipse: s-maj=72.8km s-min=32.6km az=133.0.
ISC I 09 23 12 59.6–.67 19.45S–.09 168.4E–.10 35 4.5b,4.0s 29 3-147
IDC I 09 23 12 54.1–1.0 19.38S 168.48E 0 4.4,4.3 **¶15930157**
NEIC I 09 23 12 55.6–.36 19.42S 168.48E 10 4.5b,4.3
ISCJB I 09 23 12 57.5–.59 19.45S–.07 168.4E–.10 33 4.5b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 23 42 53.3–.92 19.3S–.10 168.3E–.10 35 4.2b,3.4s 19 3-166
IDC I 09 23 42 48.2–2.0 19.24S 168.35E 0 4.2,4.0 **¶16026444**
NEIC I 09 23 42 49.4–.69 19.26S 168.41E 10 4.5b,4.0
ISCJB I 09 23 42 51.2–.83 19.25S–.08 168.3E–.10 33 4.3b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 10 00 39 12.2–.81 19.25S–.10 168.4E–.10 35 4.2b 16 3-147
IDC I 10 00 39 07.0–1.8 19.29S 168.40E 0 4.2,4.0 **¶16026445**
NEIC I 10 00 39 08.5–.61 19.23S 168.39E 10 4.5b,4.0
ISCJB I 10 00 39 09.6–.69 19.22S–.08 168.4E–.10 33 4.2s,4.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 10 00 51 25.2–1.1 17.98S–.09 167.3E–.20 23 4.1b 11 4-91
IDC I 10 00 51 21.3–1.9 17.93S 167.27E 0 4.2,4.0 **¶16026446**
NEIC I 10 00 51 22.9–.67 18.04S 167.32E 10 4.3b,4.0
ISCJB I 10 00 51 23.5–.79 17.96S–.07 167.2E–.10 23 4.2b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 10 01 43 13.5–.60 19.43S–.10 168.5E–.10 35 4.3b,3.9s 37 3-166
IDC I 10 01 43 08.2–.71 19.40S 168.55E 0 4.6,4.4 **¶15940500**
NEIC I 10 01 43 09.9–.47 19.37S 168.52E 10 4.7b,4.4
ISCJB I 10 01 43 12.1–.53 19.40S–.07 168.42E–.09 33 4.4b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 10 02 41 13.3–2.2 19.26S 168.19E 0 4.0,3.7
¶17189808
IDC Error ellipse: s-maj=63.5km s-min=27.6km az=127.0.
ISC I 10 03 05 04.9–1.0 18.9S–.20 168.7E–.20 37 3.9b 13 4-147
IDC I 10 03 05 00.1–1.4 18.62S 168.69E 0 4.3L,4.2 **¶17189810**
ISCJB I 10 03 05 03.4–1.1 18.9S–.10 168.7E–.20 37 3.9b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC I 10 03 25 21.6–23 18.97S 169.19E 0 3.9,3.8
¶17189814
IDC Error ellipse: s-maj=401.0km s-min=67.2km az=87.0.
IDC I 10 07 52 39.1–5.1 17.25S 166.97E 0 4.4s,4.4
¶17189830
IDC Error ellipse: s-maj=230.8km s-min=37.3km az=146.0.
ISC I 10 09 38 57.7–1.1 19.4S–.10 168.2E–.20 35 3.9b 9 3-91
IDC I 10 09 38 52.2–1.3 19.26S 168.33E 0 4.2,4.1 **¶17189836**
ISCJB I 10 09 38 55.7–.95 19.37S–.09 168.3E–.10 33 4.0b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC I 10 11 27 43.8–1.8 19.5S–.20 168.1E–.30 26 3.8b 8 3-91
IDC I 10 11 27 40.0–2.1 19.41S 168.07E 0 4.2,4.0 **¶17189847**
ISCJB I 10 11 27 42.7–1.6 19.4S–.10 168.0E–.30 26 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 10 11 33 06.6–1.5 19.5S–.20 168.6E–.30 35 3.8b 12 3-144
IDC I 10 11 33 01.6–1.2 19.22S 168.44E 0 4.0,3.9 **¶17189848**
ISCJB I 10 11 33 05.1–.93 19.38S–.09 168.4E–.10 33 3.8b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC I 10 19 16 54.7–.99 19.4S–.10 168.3E–.20 35 3.9b,3.1s 15 3-166
IDC I 10 19 16 49.9–1.1 19.32S 168.25E 0 4.2,4.0 **¶16151009**
NEIC I 10 19 16 50.7–.73 19.39S 168.38E 10 4.1b,4.0
ISCJB I 10 19 16 52.4–.92 19.38S–.08 168.3E–.10 33 4.0b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 10 20 55 30.7–.47 19.36S–.07 168.3E–.10 35 4.5b,4.0s 81 3-166
IDC I 10 20 55 25.2–.57 19.38S 168.48E 0 4.7,4.6L **¶15940503**
NEIC I 10 20 55 27.0–.33 19.34S 168.43E 10 4.8b,4.6L
ISCJB I 10 20 55 29.0–.42 19.37S–.05 168.31E–.08 33 4.5b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 10 21 43 12.3–4.4 19.66S 168.31E 0 4.0,3.9b
¶17189880
IDC Error ellipse: s-maj=88.0km s-min=53.7km az=111.0.
ISC I 10 23 32 50.2–.45 19.75S–.08 168.30E–.09 35 4.9b,3.5s 116 3-166
IDC I 10 23 32 44.9–.61 19.70S 168.31E 0 4.7,4.6 **¶16151022**
NEIC I 10 23 32 46.6–.21 19.72S 168.29E 10 5.0b,4.6
ISCJB I 10 23 32 49.0–.23 19.66S–.05 168.12E–.05 33 4.8b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 11 07 39 11.0–.45 19.28S–.06 168.24E–.08 35 5.1b,4.0s 118 3-166
IDC I 11 07 39 05.2–.85 19.20S 168.30E 0 4.6,4.4 **¶15917551**
GCMT I 11 07 39 07.2–.30 19.19S 168.26E 12 4.8W,4.4
NEIC I 11 07 39 07.2–.28 19.20S 168.31E 10 5.2b,4.4
ISCJB I 11 07 39 09.5–.21 19.27S–.04 168.22E–.05 33 4.9b,4.0s
BJI I 11 07 39 12.4 19.84S 168.87E 95 5.1b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=19.1km az=125.0.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c42; s83,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.17±.07 $M_{\theta\theta}$2.14±.06; $M_{\phi\phi}$0.03±.06; $M_{r\theta}$-0.29±.18; $M_{\theta\phi}$-0.38±.05; $M_{\phi r}$-0.49±.24; Best double couple: NP1:ϕ_s87.00000°,δ49.00000° ,λ-107.00000°. NP2:ϕ_s293.00000°,δ44.00000°,λ-71.00000°. Principal axes: T 2.2160,Plg3.0000°,Azm189.0000°; N 0.0900,Plg13.0000°,Azm99.0000° ; P -2.3020,Plg77.0000°,Azm291.0000° $M_0$2.25900×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.3km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.8km az=42.4.
ISC I 11 09 16 09.6–.29 13.31S–.04 167.24E–.04 224–2 5.5b 1241 8-170
IDC I 11 09 16 08.4–.69 13.25S 167.20E 209–5 5.6,5.1 **¶16019195**
MOS I 11 09 16 08.6–1.0 13.08S 167.09E 215 5.5b,5.1
NEIC I 11 09 16 09.6–1.8 13.27S 167.21E 222–3 5.5W,5.4b
ISCJB I 11 09 16 09.6–.79 13.24S–.02 167.20E–.02 235–7 5.4b,5.4b
GCMT I 11 09 16 09.6–.10 13.18S 167.05E 226–0 5.5W,5.4b
BJI I 11 09 16 11.2 12.74S 167.07E 228 5.5b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=7.0km s-min=6.4km az=115.0.
MOS Error ellipse: s-maj=9.1km s-min=7.1km az=110.5.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=11.6km az=69.0. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-2.32 $M_{r\theta}$-0.65 $M_{\theta\phi}$0.32 $M_{\phi r}$0.14 Best double couple: NP1:ϕ_s338.00000°,δ50.00000°,λ71.00000°. NP2:ϕ_s186.00000° ,δ44.00000°,λ111.00000°. Principal axes: T 2.4900,Plg75.0000°,Azm183.0000° ; N -0.1200,Plg14.0000°,Azm351.0000°; P -2.3700,Plg3.0000°,Azm82.0000° $M_0$2.40000×10^{17}

ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.2km az=29.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s107,c185; s121,c217; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.21±.03 $M_{\theta\theta}$0.25±.03; $M_{\phi\phi}$-2.46±.03; $M_{r\theta}$-0.73±.03; $M_{\theta\phi}$-0.03±.03; $M_{\phi r}$-0.08±.03; Best double couple: NP1:ϕ_s198.00000°,δ49.00000°,λ115.00000°. NP2:ϕ_s343.00000°,δ47.00000°,λ64.00000°. Principal axes: T 2.4520,Plg72.0000°,Azm177.0000°; N 0.0100,Plg18.0000°,Azm1.0000°; P -2.4620,Plg1.0000°,Azm271.0000° $M_0$2.45700×10^{17}

IDC	**I**	**11 17 36 04.8–2.2**	**19.55S**	**168.58E**	**0**	**4.0,3.8**			
									¶17189929
IDC		Error ellipse: s-maj=75.5km s-min=25.6km az=129.0.							
ISC	**I**	**12 14 46 07.0–.47**	**19.38S–.07**	**168.27E–.08**	**35**	**4.8b,4.1s**	**83**	**3-166**	
IDC	I	12 14 46 01.5–.74	19.48S	168.40E	0	4.6,4.5			**¶15922060**
NEIC	I	12 14 46 03.6–6.2	19.41S	168.40E	14–38	5.1b,4.5			
ISCJB	I	12 14 46 05.1–.34	19.43S–.05	168.32E–.07	33	4.7b,4.2s			
MOS	I	12 14 46 05.7–1.4	19.51S	168.26E	39	4.9b,4.0s			
BJI	I	12 14 46 08.5	19.43S	168.52E	65	5.1b,5.0s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=21.8km s-min=15.5km az=131.0.								
NEIC	Event type se. Error ellipse: s-maj=14.3km s-min=11.6km az=65.0.								
ISCJB	Event type se. Error ellipse: s-maj=9.8km s-min=6.7km az=24.8.								
MOS	Error ellipse: s-maj=15.6km s-min=12.2km az=34.6.								
IDC	**I**	**12 16 07 39.0–13**	**19.35S**	**168.62E**	**0**	**3.9,3.8**			
									¶17190000
IDC	Error ellipse: s-maj=214.2km s-min=59.8km az=81.0.								
ISC	**I**	**12 18 40 43.2–1.4**	**19.5S–.20**	**168.6E–.20**	**35**	**3.9b**	**11**	**3-101**	
IDC	I	12 18 40 38.3–1.6	19.35S	168.55E	0	4.1,4.0L			**¶16151178**
NEIC	I	12 18 40 39.4–1.3	19.45S	168.70E	10	4.0b,4.0L			
ISCJB	I	12 18 40 41.9–1.3	19.5S–.10	168.5E–.20	33	3.8b,3.3s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**13 06 00 41.9–.42**	**18.97S–.04**	**169.46E–.04**	**260–3**	**5.2b**	**644**	**4-167**	
MOS	I	13 06 00 39.7–1.4	18.99S	169.45E	253	5.4b			**¶15925941**
ISCJB	I	13 06 00 40.6–.78	18.94S–.03	169.36E–.03	255–7	5.2b			
IDC	I	13 06 00 41.1–.90	18.99S	169.48E	253–7	5.5,5.0			
NEIC	I	13 06 00 42.3–.72	18.94S	169.39E	262–7	5.3b,5.0			
BJI	I	13 06 00 42.4	18.41S	169.50E	258	5.1b,5.0b			
GCMT	I	13 06 00 42.3–.20	18.90S	169.27E	255–1	5.3W,5.0b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=12.0km s-min=8.5km az=120.9.								
ISCJB	Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=165.5.								
IDC	Error ellipse: s-maj=10.1km s-min=8.2km az=78.0.								
NEIC	Event type se. Error ellipse: s-maj=4.5km s-min=4.4km az=81.0.								
GCMT	Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c87; s91,c127; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.41±.02 $M_{\theta\theta}$0.28±.03; $M_{\phi\phi}$-0.68±.02; $M_{r\theta}$0.51±.03; $M_{\theta\phi}$-0.51±.02; $M_{\phi r}$-0.14±.02; Best double couple: NP1:ϕ_s60.00000°,δ65.00000°,λ144.00000°. NP2:ϕ_s167.00000°,δ58.00000°,λ30.00000°. Principal axes: T 0.9750,Plg43.0000°,Azm21.0000°; N -0.0700,Plg47.0000°,Azm209.0000°; P -0.9050,Plg4.0000°,Azm115.0000° $M_0$0.94000×10^{17}								
IDC	**I**	**13 08 07 16.0–2.3**	**19.21S**	**168.54E**	**0**	**4.2,4.0**			
									¶17190041
IDC	Error ellipse: s-maj=77.6km s-min=29.6km az=133.0.								
IDC	**I**	**13 16 28 33.4–2.5**	**19.31S**	**168.71E**	**0**	**4.7,4.4**			
									¶17190060
IDC	Error ellipse: s-maj=91.5km s-min=30.3km az=151.0.								
IDC	**I**	**13 22 23 23.1–3.9**	**18.93S**	**167.73E**	**0**	**4.2,3.8**			
									¶17190115
IDC	Error ellipse: s-maj=317.8km s-min=34.2km az=159.0.								
ISC	**I**	**14 01 03 17.3–1.1**	**19.6S–.30**	**169.0E–.20**	**10**	**4.1b,3.2s**	**13**	**21-147**	
IDC	I	14 01 03 15.7–1.8	19.64S	169.04E	0	4.3,4.1			**¶16002292**
ISCJB	I	14 01 03 16.3–1.1	19.6S–.30	168.9E–.20	10	4.2b,3.1s			
NEIC	I	14 01 03 17.2–.69	19.55S	168.92E	10	4.4b,3.1s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=79.7km s-min=26.6km az=151.0.								
ISCJB	Event type se. Error ellipse: s-maj=38.0km s-min=21.0km az=159.8.								
NEIC	Event type se. Error ellipse: s-maj=31.0km s-min=14.7km az=156.0.								
ISC	**I**	**14 01 19 25.4–.98**	**19.9S–.30**	**168.6E–.20**	**25**	**4.0b,3.4s**	**13**	**23-147**	
IDC	I	14 01 19 21.9–2.5	19.83S	168.55E	0	4.1,3.9			**¶16002293**
NEIC	I	14 01 19 23.0–.66	19.94S	168.59E	10	4.3b,3.9			
ISCJB	I	14 01 19 24.1–.98	20.0S–.20	168.5E–.20	25	4.0b,3.5s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
IDC	**I**	**14 01 42 47.7–3.1**	**18.08S**	**168.28E**	**0**	**4.2,3.8b**			
									¶17190121
IDC	Error ellipse: s-maj=256.3km s-min=31.7km az=157.0.								
ISC	**I**	**14 02 14 21.6–1.2**	**19.9S–.40**	**168.0E–.20**	**27**	**3.8b**	**10**	**20-144**	
IDC	I	14 02 14 17.6–1.8	19.82S	168.04E	0	4.2,3.9			**¶16002295**
ISCJB	I	14 02 14 19.4–.92	20.1S–.30	168.1E–.10	27	3.9b,3.9			
NEIC	I	14 02 14 19.1–.68	19.88S	168.08E	10	4.1b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=82.5km s-min=24.4km az=148.0.								
ISCJB	Event type se. Error ellipse: s-maj=49.4km s-min=13.4km az=161.5.								
NEIC	Event type se. Error ellipse: s-maj=38.8km s-min=10.4km az=162.0.								
IDC	**I**	**14 02 53 17.3–3.5**	**20.94S**	**169.10E**	**0**	**3.9,3.6**			
									¶17190128
IDC	Error ellipse: s-maj=259.8km s-min=32.6km az=160.0.								
IDC	**I**	**14 03 22 46.0–3.1**	**18.59S**	**168.05E**	**0**	**4.1s,4.1**			
									¶17190129
IDC	Error ellipse: s-maj=250.0km s-min=31.9km az=158.0.								
IDC	**I**	**14 04 18 09.2–3.5**	**19.99S**	**168.14E**	**0**	**4.2,3.8**			
									¶17190132
IDC	Error ellipse: s-maj=273.3km s-min=33.1km az=159.0.								
IDC	**I**	**14 04 25 44.3–6.0**	**18.58S**	**168.69E**	**0**	**3.9,3.6**			
									¶17190134
IDC	Error ellipse: s-maj=270.7km s-min=35.5km az=148.0.								
IDC	**I**	**14 04 43 49.2–2.9**	**19.97S**	**168.22E**	**0**	**4.0,3.7**			
									¶17190135
IDC	Error ellipse: s-maj=161.8km s-min=28.8km az=155.0.								
IDC	**I**	**14 06 16 24.9–2.6**	**19.52S**	**168.06E**	**0**	**4.3,4.0b**			
									¶17190137
IDC	Error ellipse: s-maj=165.5km s-min=22.0km az=157.0.								
IDC	**I**	**14 11 52 12.7–1.9**	**19.80S**	**169.01E**	**0**	**3.9,3.7**			
									¶17190160
IDC	Error ellipse: s-maj=117.1km s-min=29.7km az=154.0.								
IDC	**I**	**14 12 13 39.4–1.9**	**19.74S**	**168.03E**	**0**	**4.0,3.8**			
									¶17190163
IDC	Error ellipse: s-maj=111.4km s-min=29.8km az=154.0.								
ISC	**I**	**14 14 29 21.1–1.7**	**19.4S–.40**	**168.2E–.30**	**26**	**3.8b**	**8**	**20-101**	
IDC	I	14 14 29 16.9–1.7	19.44S	168.24E	0	4.2,4.0			**¶17190174**
ISCJB	I	14 14 29 19.5–1.5	19.5S–.40	168.2E–.30	26	3.9b,3.1s			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**14 14 50 08.7–2.5**	**19.1S–.50**	**168.2E–.40**	**42**	**3.9b,3.6s**	**8**	**13-101**	
IDC	I	14 14 50 02.4–2.4	19.11S	168.31E	0	4.1,3.9			**¶17190178**
ISCJB	I	14 14 50 07.6–2.3	19.1S–.40	168.1E–.40	42	3.9b,3.5s			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**I**	**14 18 13 33.9–7.3**	**17.46S**	**166.86E**	**0**	**3.9,3.7**			
									¶17190199
IDC	Error ellipse: s-maj=247.2km s-min=109.8km az=152.0.								
IDC	**I**	**14 19 58 48.8–3.6**	**18.11S**	**168.29E**	**0**	**4.0L,3.8**			
									¶17190208
IDC	Error ellipse: s-maj=85.4km s-min=36.4km az=109.0.								
ISC	**I**	**15 00 56 12.7–1.0**	**20.9S–.20**	**169.0E–.10**	**25**	**4.0b**	**12**	**14-149**	
IDC	I	15 00 56 09.4–2.1	20.86S	168.95E	0	4.1,3.9			**¶16057166**
NEIC	I	15 00 56 10.9–.64	20.89S	168.97E	10	4.2b,3.9			
ISCJB	I	15 00 56 11.4–.79	20.9S–.20	168.9E–.10	25	4.0b,3.4s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**15 02 44 43.5–.95**	**19.3S–.10**	**168.2E–.10**	**26**	**4.1b**	**16**	**3-147**	
IDC	I	15 02 44 39.4–1.4	19.23S	168.24E	0	4.2,4.0			**¶16005274**
ISCJB	I	15 02 44 41.5–.97	19.32S–.08	168.2E–.10	26	4.0b,3.2s			
NEIC	I	15 02 44 41.9–.79	19.38S	168.07E	10	4.2b,3.2s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=35.8km s-min=26.5km az=105.0.								
ISCJB	Event type se. Error ellipse: s-maj=18.9km s-min=10.7km az=14.0.								
NEIC	Event type se. Error ellipse: s-maj=18.0km s-min=15.8km az=61.0.								
ISC	**I**	**15 06 09 08.5–.32**	**14.62S–.04**	**167.29E–.04**	**183–2**	**5.2b**	**545**	**7-169**	
BJI	I	15 06 09 07.6	14.47S	167.64E	195	5.2b,4.8b			**¶16019221**
IDC	I	15 06 09 07.4–.48	14.55S	167.39E	179–3	5.1,4.6			
ISCJB	I	15 06 09 08.3–.89	14.63S–.03	167.27E–.03	192–8	5.1b,4.6			
MOS	I	15 06 09 08.1–1.4	14.52S	167.28E	187	5.0b,4.6			
GCMT	I	15 06 09 10.3–.10	14.67S	167.17E	169–0	5.8W,4.6			
NEIC	I	15 06 09 10.3–.84	14.59S	167.29E	198–7	5.4b,4.6			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=11.2km s-min=8.7km az=92.0.								
ISCJB	Event type fe. Error ellipse: s-maj=4.8km s-min=4.2km az=31.6.								
MOS	Error ellipse: s-maj=11.3km s-min=9.3km az=131.9.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c257; s136,c401;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}4.89±.04 $M_{\theta\theta}$0.00±.06; $M_{\phi\phi}$-4.89±.06; $M_{r\theta}$-3.43±.04; $M_{\theta\phi}$3.77±.06; $M_{\phi r}$-0.60±.04; Best double couple: NP1: ϕ_s303.00000°,δ59.00000°,λ51.00000°. NP2:ϕ_s180.00000°,δ48.00000°,λ136.00000°. Principal axes: T 7.1230,Plg57.0000°,Azm158.0000°; N -0.0680,Plg33.0000°,Azm326.0000°; P -7.0540,Plg6.0000°,Azm59.0000° $M_0$7.08800×10^{17}								
NEIC	Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=223.0. Felt at Luganville and Port-Vila.								
ISC	**I**	**16 03 30 56.8–1.2**	**20.7S–.20**	**169.1E–.20**	**31**	**4.2b,3.7s**	**27**	**3-152**	
IDC	I	16 03 30 52.4–1.8	20.57S	169.14E	0	4.3,4.2			**¶16031150**
NEIC	I	16 03 30 53.6–.70	20.68S	169.15E	10	4.5b,4.2			
ISCJB	I	16 03 30 55.8–1.2	20.6S–.20	169.0E–.20	31	4.2b,3.7s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**16 12 56 17.1–1.3**	**19.5S–.20**	**169.0E–.20**	**35**	**3.9b**	**11**	**3-145**	
IDC	I	16 12 56 08.1–1.7	19.51S	169.63E	0	4.0,3.9			**¶17190326**
ISCJB	I	16 12 56 15.4–1.2	19.4S–.20	169.0E–.20	33	3.8b,2.9s			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**16 19 45 20.1–.98**	**15.8S–.20**	**168.2E–.10**	**10**	**4.4b,3.5s**	**24**	**6-167**	
ISCJB	I	16 19 45 18.4–.87	15.7S–.20	168.1E–.10	10	4.3b,3.5s			**¶15940535**
IDC	I	16 19 45 18.4–1.0	15.74S	168.24E	0	4.5,4.4b			
NEIC	I	16 19 45 19.9–.71	15.76S	168.22E	10	4.2b,4.4b			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=25.7km s-min=12.3km az=144.6.								
IDC	Error ellipse: s-maj=31.4km s-min=17.2km az=149.0.								
NEIC	Event type se. Error ellipse: s-maj=23.7km s-min=10.9km az=148.0.								
ISC	**I**	**17 07 26 53.3–.77**	**19.3S–.10**	**168.3E–.10**	**35**	**4.3b,3.9s**	**28**	**3-166**	
IDC	I	17 07 26 47.9–1.1	19.33S	168.32E	0	4.4,4.3			**¶15968920**
NEIC	I	17 07 26 50.0–.51	19.25S	168.23E	10	4.6b,4.3			
ISCJB	I	17 07 26 52.0–.59	19.28S–.07	168.16E–.09	33	4.3b,3.8s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**18 10 55 39.9–.66**	**18.7S–.10**	**169.7E–.10**	**246**	**3.7b**	**21**	**4-167**	
ISCJB	I	18 10 55 39.1–.70	18.7S–.10	169.6E–.10	246	3.7b			**¶17190478**
IDC	I	18 10 55 43.2–2.1	18.94S	169.55E	277–19	4.2,3.8			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=20.4km s-min=11.0km az=39.4.								
IDC	Error ellipse: s-maj=20.6km s-min=16.4km az=21.0.								
IDC	**I**	**18 12 14 28.1–2.1**	**18.05S**	**167.61E**	**0**	**4.2,4.0**			
									¶17190481
IDC	Error ellipse: s-maj=52.6km s-min=29.4km az=117.0.								
IDC	**I**	**20 00 21 49.8–53**	**13.68S**	**165.92E**	**0**	**4.2,4.0b**			
									¶17190586
IDC	Error ellipse: s-maj=887.4km s-min=102.0km az=64.0.								
ISC	**I**	**20 09 46 21.8–.71**	**19.21S–.09**	**168.4E–.10**	**42**	**4.5b,4.0s**	**26**	**3-166**	
IDC	I	20 09 46 15.9–.74	19.15S	168.40E	0	4.5,4.5L			**¶16151924**
ISCJB	I	20 09 46 20.3–.54	19.22S–.07	168.4E–.10	42	4.4b,3.9s			
NEIC	I	20 09 46 21.1–.43	19.21S	168.37E	35	4.8b,3.9s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=22.3km s-min=16.1km az=120.0.								
ISCJB	Event type se. Error ellipse: s-maj=14.9km s-min=8.4km az=25.9.								
NEIC	Event type se. Error ellipse: s-maj=12.0km s-min=9.9km az=131.0.								
ISC	**I**	**21 23 25 00.2–.66**	**19.7S–.10**	**168.6E–.10**	**35**	**4.2b**	**20**	**3-145**	
IDC	I	21 23 24 55.1–1.5	19.64S	168.56E	0	4.4,4.2			**¶16152047**
NEIC	I	21 23 24 56.5–.44	19.65S	168.59E	10	4.4b,4.2			
ISCJB	I	21 23 24 58.5–.61	19.63S–.09	168.5E–.10	33	4.4b,3.2s			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
IDC	**I**	**22 09 10 24.3–67**	**13.69S**	**165.71E**	**0**	**3.9,3.7**			
									¶17190728
IDC	Error ellipse: s-maj=1132.0km s-min=114.7km az=63.0.								
IDC	**I**	**22 17 17 18.9–1.1**	**14.16S**	**166.47E**	**0**	**4.1,4.0L**			
									¶17190758
IDC	Error ellipse: s-maj=33.9km s-min=20.8km az=99.0.								
ISC	**I**	**24 06 05 39.6–.92**	**14.3S–.10**	**167.7E–.20**	**10**	**4.0b**	**11**	**16-166**	
ISCJB	I	24 06 05 38.4–.82	14.4S–.10	167.6E–.20	10	4.0b			**¶16135672**
IDC	I	24 06 05 38.4–1.1	14.34S	167.63E	0	4.1,4.0b			
NEIC	I	24 06 05 39.9–.70	14.35S	167.61E	10	4.7b,4.0b			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=27.8km s-min=9.4km az=28.0.								
IDC	Error ellipse: s-maj=38.6km s-min=24.8km az=122.0.								
NEIC	Event type se. Error ellipse: s-maj=25.1km s-min=12.9km az=122.0.								
IDC	**I**	**24 06 26 28.8–2.3**	**13.79S**	**166.32E**	**0**	**4.1,3.9b**			
									¶17190866
IDC	Error ellipse: s-maj=119.8km s-min=28.4km az=138.0.								
ISC	**I**	**24 07 44 08.1–.84**	**14.09S–.09**	**166.5E–.20**	**43**	**3.8b**	**14**	**8-119**	
IDC	I	24 07 44 01.8–1.2	14.05S	166.57E	0	4.0,3.9b			**¶16135681**
ISCJB	I	24 07 44 06.9–.79	14.13S–.07	166.4E–.20	43	4.2b,3.9b			
NEIC	I	24 07 44 07.2–.62	14.09S	166.51E	35	4.5b,3.9b			
ISC	Event type se.								
IDC	Error ellipse: s-maj=40.0km s-min=22.0km az=119.0.								
ISCJB	Event type se. Error ellipse: s-maj=21.0km s-min=10.4km az=178.3.								
NEIC	Event type se. Error ellipse: s-maj=18.8km s-min=12.9km az=107.0.								
ISC	**I**	**24 11 38 44.5–1.2**	**14.8S–.10**	**167.2E–.10**	**150**	**4.1b**	**14**	**7-94**	
NEIC	I	24 11 38 42.5–1.9	14.88S	167.26E	128–16	4.3b			**¶16135698**
IDC	I	24 11 38 42.5–3.0	14.86S	167.20E	128–24	4.5,4.1			
ISCJB	I	24 11 38 43.5–.89	14.95S–.07	167.1E–.10	150	4.0b,4.1			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**24 14 03 17.3–2.1**	**19.7S–.30**	**168.3E–.40**	**35**	**3.9b**	**6**	**3-91**	
IDC	I	24 14 03 11.7–2.3	19.72S	168.44E	0	4.2,4.1			**¶17190897**
ISCJB	I	24 14 03 15.4–1.8	19.8S–.20	168.4E–.30	33	4.1b,4.1			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**25 09 54 19.7–.61**	**13.08S–.09**	**167.2E–.20**	**200**	**4.1b**	**33**	**9-166**	
ISCJB	I	25 09 54 18.6–.55	13.12S–.07	167.2E–.10	200	4.0b			**¶16135772**
NEIC	I	25 09 54 19.2–1.8	13.07S	167.22E	195–16	4.1b			
IDC	I	25 09 54 20.5–3.5	13.15S	167.21E	204–30	4.3,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=16.3km s-min=10.4km az=176.4.								
NEIC	Event type se. Error ellipse: s-maj=12.2km s-min=9.7km az=51.0.								
IDC	Error ellipse: s-maj=19.7km s-min=14.7km az=80.0.								
IDC	**I**	**25 18 13 55.0–3.0**	**13.60S**	**167.12E**	**0**	**3.9,3.8**			
									¶17190977

IDC Error ellipse: s-maj=153.7km s-min=47.5km az=136.0.
ISC I 26 02 39 26.0–1.2 13.5S–.10 166.5E–.30 39 3.4b 9 8-150
IDC I 26 02 39 21.2–1.3 13.29S 166.34E 0 3.7,3.7L **¶17191003**
ISCJB I 26 02 39 24.5–1.1 13.59S–.08 166.5E–.20 39 3.4b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC I 26 12 05 47.2–.36 19.01S–.05 168.21E–.06 20 5.1b,4.7s 343 3-166
IDC I 26 12 05 43.6–.59 19.03S 168.32E 0 5.0,4.9 **¶15968998**
GCMT I 26 12 05 45.7–.30 18.84S 168.01E 23–2 5.0W,4.9
NEIC I 26 12 05 45.7–.18 18.89S 168.21E 10 5.2b,4.9
ISCJB I 26 12 05 45.9–.16 18.92S–.04 168.18E–.03 20 5.1b,4.6s
BJI I 26 12 05 47.0 18.76S 168.32E 25 5.3b,5.0b
MOS I 26 12 05 48.0–.85 18.89S 168.14E 35 5.4b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=13.6km az=153.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c29; s56,c77; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.96±.21 $M_{\theta\theta}$0.44±.13; $M_{\phi\phi}$-2.40±.16; $M_{r\theta}$1.00±.24; $M_{\theta\phi}$0.43±.11; $M_{\phi r}$-3.12±.34; Best double couple: NP1:ϕ_s163.00000°,δ73.00000°,λ84.00000°. NP2:ϕ_s4.00000°,δ18.00000°,λ110.00000°. Principal axes: T 3.7340,Plg61.0000°,Azm64.0000°; N 0.4440,Plg6.0000°,Azm165.0000°; P -4.1810,Plg28.0000°,Azm258.0000° $M_0$3.95800×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.8km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=152.3.
MOS Error ellipse: s-maj=9.7km s-min=9.3km az=131.5.
ISC I 26 12 49 55.9–1.1 19.1S–.10 168.3E–.20 42 4.0b,3.6s 15 3-166
IDC I 26 12 49 50.4–1.2 18.97S 168.32E 0 4.3,4.1 **¶17191035**
ISCJB I 26 12 49 54.2–1.0 19.1S–.10 168.3E–.20 42 4.1b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC I 26 17 35 22.3–8.4 18.62S 168.06E 97–73 3.8,3.7
¶17191050
IDC Error ellipse: s-maj=154.1km s-min=60.3km az=107.0.
IDC I 28 10 52 07.8–4.8 19.30S 168.89E 0 4.1,4.0
¶17191186
IDC Error ellipse: s-maj=85.3km s-min=38.2km az=39.0.
IDC I 28 12 13 36.3–3.5 17.57S 167.86E 0 4.2L,4.1
¶17191190
IDC Error ellipse: s-maj=77.1km s-min=39.7km az=102.0.
ISC I 28 20 03 49.6–.47 19.57S–.07 168.09E–.08 26 4.8b,3.8s 113 3-165
IDC I 28 20 03 45.6–.69 19.54S 168.06E 0 4.6,4.6L **¶15979144**
NEIC I 28 20 03 46.9–.28 19.51S 168.10E 10 5.0b,4.6L
GCMT I 28 20 03 46.9–.40 19.32S 167.86E 17–2 4.8W,4.6L
ISCJB I 28 20 03 47.9–.23 19.57S–.05 168.13E–.05 26 4.8b,3.8s
BJI I 28 20 03 51.0 19.60S 168.10E 20 5.0b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=15.1km az=128.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.9km az=163.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c18; s66,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.23±.12 $M_{\theta\theta}$-1.78±.09; $M_{\phi\phi}$2.01±.11; $M_{r\theta}$0.27±.26; $M_{\theta\phi}$-0.46±.08; $M_{\phi r}$-0.40±.24; Best double couple: NP1:ϕ_s128.00000°,δ88.00000°,λ167.00000°. NP2:ϕ_s219.00000°,δ77.00000°,λ2.00000°. Principal axes: T 2.1440,Plg10.0000°,Azm83.0000°; N -0.2810,Plg77.0000°,Azm301.0000°; P -1.8660,Plg8.0000°,Azm174.0000° $M_0$2.00500×10^{16}
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.4km az=147.0.
ISC I 29 03 08 29.2–.37 19.07S–.06 168.23E–.07 20 5.0b,4.2s 197 3-166
IDC I 29 03 08 26.0–.56 19.02S 168.26E 0 4.6,4.6 **¶15979158**
ISCJB I 29 03 08 27.9–.20 19.08S–.04 168.21E–.04 20 4.8b,4.2s
MOS I 29 03 08 29.6–.83 19.04S 168.23E 33 5.0b,4.2s
NEIC I 29 03 08 32.4–1.2 19.08S 168.21E 44–10 5.1b,4.2s
BJI I 29 03 08 37.1 18.67S 167.72E 62 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=15.4km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.9km az=144.2.
MOS Error ellipse: s-maj=10.6km s-min=10.1km az=158.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.3km az=151.0.
ISC I 29 12 31 34.9–.70 19.5S–.10 168.0E–.10 26 4.3b,3.7s 23 3-147
IDC I 29 12 31 30.9–.96 19.48S 168.08E 0 4.4,4.3 **¶16136123**
NEIC I 29 12 31 32.5–.44 19.45S 168.05E 10 4.8b,4.3
ISCJB I 29 12 31 33.6–.53 19.48S–.08 168.0E–.10 26 4.4b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 30 00 29 05.4–.61 17.95S–.09 168.1E–.10 32 4.1b 25 4-166
IDC I 30 00 29 00.7–1.2 17.83S 168.10E 0 4.1,3.9 **¶16136152**
NEIC I 30 00 29 02.3–.33 17.87S 168.11E 10 4.3b,3.9
ISCJB I 30 00 29 03.3–.55 17.97S–.07 168.1E–.10 32 4.1b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 30 04 28 42.4–.42 19.73S–.08 168.54E–.09 35 4.8b,4.0s 169 3-166
BJI I 30 04 28 35.0 21.29S 169.19E 11 5.2b,5.2s **¶16019280**
IDC I 30 04 28 36.3–.46 19.53S 168.69E 0 4.6,4.5
GCMT I 30 04 28 38.8–.30 19.62S 168.53E 28–1 5.0W,4.5
NEIC I 30 04 28 38.8–.28 19.61S 168.48E 10 5.0b,4.5
ISCJB I 30 04 28 41.4–.23 19.71S–.06 168.43E–.05 33 4.7b,4.1s
MOS I 30 04 28 41.2–1.6 19.58S 168.49E 33 5.1b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=13.4km az=108.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c45; s71,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.53±.17 $M_{\theta\theta}$0.56±.13; $M_{\phi\phi}$1.97±.12; $M_{r\theta}$-0.89±.22; $M_{\theta\phi}$-0.65±.08; $M_{\phi r}$3.77±.34; Best double couple: NP1:ϕ_s165.00000°,δ74.00000°,λ-87.00000°. NP2:ϕ_s334.00000°,δ16.00000°,λ-101.00000°. Principal axes: T 4.3750,Plg29.0000°,Azm253.0000°; N 0.3330,Plg3.0000°,Azm345.0000°; P -4.7100,Plg61.0000°,Azm80.0000° $M_0$4.54300×10^{16}
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.0km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.4km az=145.1.
MOS Error ellipse: s-maj=12.8km s-min=11.2km az=172.1.
ISC I 30 04 41 19.3–1.3 19.8S–.20 169.0E–.20 10 3.9b 12 3-145
ISCJB I 30 04 41 18.0–1.2 19.8S–.20 169.0E–.20 10 4.0b,2.9s **¶16136173**
IDC I 30 04 41 18.1–1.5 19.58S 168.97E 0 4.2,3.9
NEIC I 30 04 41 19.4–.82 19.69S 169.03E 10 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=31.9km s-min=11.4km az=41.8.
IDC Error ellipse: s-maj=70.1km s-min=21.9km az=147.0.
NEIC Event type se. Error ellipse: s-maj=23.8km s-min=12.3km az=146.0.
IDC I 30 06 54 53.2–2.9 17.67S 168.01E 0 4.2,4.0
¶17191294
IDC Error ellipse: s-maj=110.2km s-min=33.6km az=142.0.
IDC I 30 07 16 26.8–3.1 19.13S 168.40E 0 4.2,4.0b
¶17191298
IDC Error ellipse: s-maj=109.0km s-min=31.1km az=137.0.
ISC I 30 10 51 04.6–.56 18.84S–.08 169.49E–.10 246 3.8b 29 4-167
ISCJB I 30 10 51 03.9–.55 18.76S–.08 169.42E–.10 246 3.8b **¶17191315**
IDC I 30 10 51 05.4–1.8 18.85S 169.40E 251–16 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=8.9km az=35.0.
IDC Error ellipse: s-maj=16.1km s-min=11.8km az=76.0.
ISC I 30 13 03 01.2–.46 19.62S–.07 168.66E–.08 10 4.8b,3.9s 99 3-166
IDC I 30 13 02 58.9–.64 19.55S 168.77E 0 4.7,4.5 **¶15981249**
ISCJB I 30 13 03 00.6–.29 19.68S–.05 168.54E–.06 10 4.7b,3.8s
NEIC I 30 13 03 01.7–.36 19.53S 168.57E 10 4.8b,3.8s
BJI I 30 13 03 01.8 19.58S 169.24E 32 5.2b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=25.0km s-min=15.7km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.1km az=137.7.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.8km az=152.0.
ISC I 30 16 03 15.9–.54 19.1S–.10 169.3E–.10 246 4.4b 80 4-167
IDC I 30 16 03 09.6–2.0 19.06S 169.36E 187–17 4.4,4.0 **¶15990265**
NEIC I 30 16 03 14.5–.65 18.95S 169.25E 231–6 4.5b,4.0
ISCJB I 30 16 03 15.0–.40 19.12S–.09 169.25E–.07 246 4.3b,4.0
BJI I 30 16 03 15.9 18.37S 169.47E 238 5.0b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=14.2km az=116.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.9km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=8.1km az=151.1.
ISC I 30 18 27 42.0–.36 15.03S–.05 167.02E–.07 129 4.8b 107 7-168
NEIC I 30 18 27 38.5–.26 14.97S 167.22E 100 5.1b **¶16019283**
GCMT I 30 18 27 38.5–.30 14.95S 167.04E 106–2 5.2W
IDC I 30 18 27 39.1–.47 14.89S 167.21E 100–3 4.7,4.4
ISCJB I 30 18 27 40.2–.28 15.02S–.04 167.09E–.06 129 4.8b,4.4
BJI I 30 18 27 51.7 16.36S 167.00E 165 4.9b,4.7b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.0km az=80.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c43; s85,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.46±.18 $M_{\theta\theta}$0.84±.22; $M_{\phi\phi}$-1.30±.19; $M_{r\theta}$-3.29±.12; $M_{\theta\phi}$5.66±.19; $M_{\phi r}$0.03±.12; Best double couple: NP1:ϕ_s276.00000°,δ86.00000°,λ30.00000°. NP2:ϕ_s184.00000°,δ60.00000°,λ176.00000°. Principal axes: T 6.6170,Plg23.0000°,Azm145.0000°; N 0.0520,Plg60.0000°,Azm283.0000°; P -6.6740,Plg18.0000°,Azm47.0000° $M_0$6.64500×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=9.0km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.9km az=161.9.
ISC I 31 03 01 56.9–1.3 19.4S–.10 168.5E–.20 35 4.0b 14 3-144
IDC I 31 03 01 52.6–.90 19.13S 168.35E 0 4.3,4.1 **¶16009331**
NEIC I 31 03 01 54.1–.72 19.15S 168.37E 10 4.0b,4.1
ISCJB I 31 03 01 56.0–.74 19.27S–.07 168.3E–.10 33 4.0b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 02 09 21 53.3–1.8 19.8S–.20 168.8E–.30 35 4.0b 12 3-126
IDC II 02 09 21 48.3–1.9 19.75S 168.76E 0 4.3,4.1 **¶17191534**
ISCJB II 02 09 21 51.7–1.9 19.8S–.20 168.8E–.30 35 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC II 02 11 35 16.9–.88 18.39S–.10 167.4E–.20 25 3.9b 12 4-129
IDC II 02 11 35 12.5–1.2 18.33S 167.59E 0 4.3,4.0 **¶17191540**
ISCJB II 02 11 35 14.8–.95 18.47S–.08 167.5E–.20 25 3.9b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC II 02 13 53 52.8–2.6 19.39S 168.45E 0 4.2,4.1b
¶17191546
IDC Error ellipse: s-maj=74.5km s-min=40.5km az=135.0.
ISC II 02 21 26 10.0–.48 14.64S–.07 166.5E–.10 28 4.5b,3.9s 62 7-165
IDC II 02 21 26 05.9–.77 14.63S 166.41E 0 4.5,4.4 **¶16168795**
ISCJB II 02 21 26 08.1–.43 14.64S–.05 166.47E–.08 28 4.5b,3.9s
MOS II 02 21 26 10.4–1.5 14.50S 166.34E 33 5.1b,3.9s
NEIC II 02 21 26 10.8–.48 14.66S 166.54E 35 4.7b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=16.6km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.4km az=164.3.
MOS Error ellipse: s-maj=14.2km s-min=11.0km az=33.6.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=11.6km az=100.0.
ISC II 03 03 22 57.4–.37 14.59S–.04 166.64E–.04 49–2 5.2b,4.6s 736 7-169
NEIC II 03 03 22 54.0–.14 14.52S 166.66E 24 5.3b,5.2W **¶16168796**
GCMT II 03 03 22 54.0–.20 14.59S 166.67E 27–0 5.3W,5.2W
ISCJB II 03 03 22 54.7–.98 14.54S–.03 166.62E–.02 40–8 5.2b,4.6s
IDC II 03 03 22 54.9–3.7 14.54S 166.62E 29–25 5.1,5.0
BJI II 03 03 22 55.7 14.50S 166.85E 55 5.1b,5.1s
MOS II 03 03 22 56.8–2.0 14.41S 166.59E 46 5.5b,5.1s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=144.0. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.09 $M_{\theta\theta}$4.34 $M_{\phi\phi}$-0.24 $M_{r\theta}$2.78 $M_{\theta\phi}$-3.77 $M_{\phi r}$-3.28 Best double couple: NP1:ϕ_s318.00000°,δ67.00000°,λ-69.00000°. NP2:ϕ_s94.00000°,δ31.00000°,λ-130.00000°. Principal axes: T 7.8500,Plg19.0000°,Azm32.0000°; N -1.8300,Plg19.0000°,Azm129.0000°; P -6.0100,Plg62.0000°,Azm261.0000° $M_0$7.10000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c88; s89,c127; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00±.02 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$0.04±.01; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$0.11±.01; $M_{\phi r}$-1.08±.05; Best double couple: NP1:ϕ_s153.00000°,δ89.00000°,λ95.00000°. NP2:ϕ_s252.00000°,δ5.00000°,λ9.00000°. Principal axes: T 1.1880,Plg46.0000°,Azm68.0000°; N 0.0620,Plg5.0000°,Azm333.0000°; P -1.2500,Plg44.0000°,Azm239.0000° $M_0$1.21900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.9km az=174.1.
IDC Error ellipse: s-maj=15.8km s-min=11.8km az=96.0.
MOS Error ellipse: s-maj=7.4km s-min=7.1km az=70.7.
ISC II 03 07 46 22.5–.60 19.45S–.08 168.2E–.10 26 4.7b,3.7s 33 3-147
IDC II 03 07 46 18.4–.83 19.34S 168.26E 0 4.6,4.5 **¶16339700**
ISCJB II 03 07 46 21.3–.47 19.41S–.06 168.14E–.09 26 4.7b,3.8s
NEIC II 03 07 46 24.0–.51 19.37S 168.21E 35 4.8b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=17.9km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=7.7km az=19.2.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=11.5km az=101.0.
ISC II 03 10 01 54.2–1.6 15.0S–.10 167.5E–.20 129 4.1b 10 7-121
ISCJB II 03 10 01 53.4–1.8 14.98S–.09 167.3E–.30 129 4.1b **¶17191590**
IDC II 03 10 01 54.0–6.3 14.96S 167.43E 125–59 4.4,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.0km s-min=11.5km az=172.7.
IDC Error ellipse: s-maj=48.1km s-min=33.0km az=163.0.
ISC II 04 14 21 00.7–.51 14.22S–.04 166.45E–.04 47–4 5.5b,5.5s 618 8-169
IDC II 04 14 20 54.0–.31 14.18S 166.59E 0 5.5,5.5s **¶16168798**
NEIC II 04 14 20 55.5–.14 14.19S 166.46E 10 5.8b,5.5s
GCMT II 04 14 20 56.4–.10 14.18S 166.39E 16–0 5.9W,5.5s
ISCJB II 04 14 20 57.3–1.7 14.25S–.03 166.45E–.03 30–11 5.5s,5.5b
MOS II 04 14 20 58.5–1.1 14.08S 166.40E 34 5.8b,5.6s
BJI II 04 14 21 01.6 13.68S 166.35E 45 5.9b,5.8s
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.2km az=85.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.3km az=75.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c198; s129,c410;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.97±.01 $M_{\theta\theta}$-0.65±.01; $M_{\phi\phi}$-0.31±.01; $M_{r\theta}$-0.15±.03; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$-0.03±.03; Best double couple: NP1:ϕ_s297.00000°,δ49.00000°,λ83.00000°. NP2:ϕ_s127.00000°,δ42.00000°,λ98.00000°. Principal axes: T 0.9860,Plg84.0000°,Azm154.0000°; N -0.1090,Plg5.0000°,Azm301.0000°; P -0.8770,Plg3.0000°,Azm32.0000° $M_0$0.93200×10^{18}
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.8km az=44.2.
MOS Error ellipse: s-maj=7.9km s-min=6.7km az=125.3.
ISC II 04 14 31 09.1–.80 14.26S–.08 166.6E–.20 28 4.2b 19 8-153
IDC II 04 14 31 04.5–.96 14.27S 166.66E 0 4.7,4.7s **¶17191652**
ISCJB II 04 14 31 07.1–.74 14.28S–.06 166.6E–.10 28 4.7s,4.2b
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 14 36 58.9–.80 14.22S–.08 166.7E–.10 43 3.9b 17 8-125
IDC II 04 14 36 52.8–1.0 14.21S 166.68E 0 4.2,4.2L **¶17191653**
ISCJB II 04 14 36 57.2–.73 14.25S–.06 166.6E–.10 43 3.9b,4.2L
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 14 42 42.1–1.9 14.2S–.10 166.4E–.40 43 3.5b 7 8-96
IDC II 04 14 42 36.4–2.5 14.19S 166.34E 0 3.8,3.7b **¶17191655**
ISCJB II 04 14 42 41.0–1.7 14.27S–.10 166.3E–.30 43 3.5b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC II 04 14 44 38.6–1.4 14.14S 166.57E 0 4.0,4.0L
¶17191656
IDC Error ellipse: s-maj=43.8km s-min=23.3km az=127.0.
ISC II 04 14 47 14.4–.91 14.27S–.08 166.5E–.20 28 4.0b 16 8-97
IDC II 04 14 47 09.9–1.2 14.28S 166.56E 0 4.4L,4.2 **¶17191657**

ISCJB II 04 14 47 12.6–.77 14.34S–.06 166.5E–.10 28 4.0b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 14 52 47.8–1.5 14.2S–.20 166.6E–.20 43 3.8b 8 8-96
IDC II 04 14 52 41.1–2.0 14.22S 166.71E 0 4.7L,4.4 ¶17191658
ISCJB II 04 14 52 46.6–1.4 14.2S–.20 166.5E–.20 43 4.4s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 14 55 22.5–1.3 14.2S–.10 166.6E–.20 43 3.7b 8 8-96
IDC II 04 14 55 16.7–1.7 14.13S 166.47E 0 3.9,3.8b ¶17191659
ISCJB II 04 14 55 20.9–1.2 14.32S–.08 166.5E–.20 43 3.6b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 14 58 15.1–1.5 14.5S–.20 166.5E–.20 28 3.6b 9 8-97
IDC II 04 14 58 10.3–2.0 14.54S 166.59E 0 4.6L,3.9 ¶17191660
ISCJB II 04 14 58 14.0–1.3 14.5S–.20 166.3E–.20 28 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 14 59 47.2–.45 14.19S–.06 166.53E–.07 10 4.8b 111 8-165
ISCJB II 04 14 59 45.5–.30 14.19S–.04 166.50E–.05 10 4.9s,4.6b ¶16005331
IDC II 04 14 59 45.5–.60 14.25S 166.58E 0 4.5,4.5
NEIC II 04 14 59 46.9–.31 14.17S 166.52E 10 4.9b,4.5
BJI II 04 14 59 48.3 14.17S 166.61E 25 5.4s,5.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.6km az=20.2.
IDC Error ellipse: s-maj=17.9km s-min=14.1km az=103.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.7km az=123.0.
ISC II 04 15 02 58.7–.65 14.21S–.07 166.5E–.10 43 4.3b 25 8-165
IDC II 04 15 02 52.5–.65 14.15S 166.54E 0 4.4,4.4L ¶17191661
ISCJB II 04 15 02 56.8–.57 14.25S–.06 166.4E–.10 43 4.2b,4.4L
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 15 07 19.0–.89 14.2S–.10 166.6E–.20 43 4.0b 16 8-120
IDC II 04 15 07 11.9–1.4 14.36S 166.75E 0 4.9L,4.3 ¶17191662
ISCJB II 04 15 07 17.5–.79 14.27S–.09 166.5E–.10 43 4.1b,4.3
ISC Event type ke.
ISCJB Event type ke.
IDC II 04 15 11 16.3–1.6 14.22S 166.58E 0 4.4L,3.9
¶17191663
IDC Error ellipse: s-maj=39.6km s-min=30.0km az=118.0.
IDC II 04 15 16 28.1–5.3 13.81S 166.23E 0 3.8,3.5
¶17191664
IDC Error ellipse: s-maj=262.7km s-min=33.9km az=142.0.
ISC II 04 15 23 12.3–.54 14.22S–.07 166.6E–.10 35 4.9b 72 8-125
IDC II 04 15 23 07.1–.71 14.16S 166.52E 0 4.5s,4.5 ¶16397583
ISCJB II 04 15 23 10.4–.47 14.22S–.05 166.70E–.10 35 4.8b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 15 23 20.2–.36 14.19S–.05 166.68E–.07 43 5.0b,4.8s 200 8-165
GCMT II 04 15 23 10.3–.60 14.30S 166.53E 18–2 5.4W,4.8s ¶17191665
NEIC II 04 15 23 10.3–.55 14.26S 166.42E 10 5.2b,4.8s
IDC II 04 15 23 14.2–.47 14.18S 166.65E 0 4.9,4.8
MOS II 04 15 23 16.7–1.6 14.51S 166.35E 37 5.3b,4.8
ISCJB II 04 15 23 18.6–.26 14.21S–.03 166.68E–.05 43 4.9b,4.7s
BJI II 04 15 23 18.1 13.83S 166.59E 25 5.4b,5.2s
ISC Event type se.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c38; s63,c79; Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30±.14 $M_{\theta\theta}$-0.67±.08; $M_{\phi\phi}$-0.63±.09; $M_{r\theta}$0.14±.15; $M_{\theta\phi}$-0.28±.04; $M_{\phi r}$1.36±.24; Best double couple: NP1:ϕ_s16.00000°,δ71.00000°,λ79.00000°. NP2:ϕ_s226.00000°,δ22.00000°,λ118.00000°. Principal axes: T 2.0020,Plg63.0000°,Azm270.0000°; N -0.5400,Plg10.0000°,Azm20.0000°; P -1.4620,Plg25.0000°,Azm114.0000° $M_0$1.73200×10^{17}
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=11.2km az=93.0.
IDC Error ellipse: s-maj=16.9km s-min=12.8km az=90.0.
MOS Error ellipse: s-maj=11.7km s-min=9.1km az=112.4.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.5km az=8.6.
ISC II 04 15 43 38.2–1.6 14.1S–.10 166.5E–.30 43 3.4b 5 8-97
IDC II 04 15 43 33.5–1.3 14.22S 166.55E 0 4.2L,3.9 ¶17191667
ISCJB II 04 15 43 37.9–1.0 14.26S–.08 166.4E–.20 43 3.5s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 15 50 36.7–.84 14.4S–.10 166.6E–.20 28 4.1b 20 8-165
IDC II 04 15 50 32.5–1.1 14.34S 166.61E 0 4.3,4.2 ¶17191668
ISCJB II 04 15 50 34.7–.75 14.37S–.09 166.6E–.10 28 4.1b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC II 04 16 08 11.4–1.5 13.99S 166.58E 0 3.9,3.8L
¶17191669
IDC Error ellipse: s-maj=59.2km s-min=29.5km az=122.0.
IDC II 04 16 12 34.9–1.6 14.23S 166.35E 0 3.8,3.6
¶17191670
IDC Error ellipse: s-maj=53.0km s-min=29.2km az=100.0.
ISC II 04 16 21 15.5–.38 14.28S–.05 166.71E–.07 35 4.9b,4.5s 230 8-165
IDC II 04 16 21 09.7–.53 14.21S 166.67E 0 4.7,4.6 ¶16168800
NEIC II 04 16 21 10.9–.26 14.16S 166.58E 10 5.0b,4.6
GCMT II 04 16 21 10.9–.30 14.14S 166.43E 14–1 5.2W,4.6
BJI II 04 16 21 12.6 13.85S 166.66E 18 5.3b,5.2s
MOS II 04 16 21 13.6–1.4 14.14S 166.52E 33 5.3b,5.2s
ISCJB II 04 16 21 13.3–.25 14.24S–.03 166.67E–.05 35 4.9b,4.5s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c51; s88,c149;Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.84±.06 $M_{\theta\theta}$-0.81±.04; $M_{\phi\phi}$-0.03±.03; $M_{r\theta}$0.09±.05; $M_{\theta\phi}$0.02±.02; $M_{\phi r}$-0.15±.08; Best double couple: NP1:ϕ_s101.00000°,δ49.00000°,λ103.00000°. NP2:ϕ_s262.00000°,δ43.00000°,λ76.00000°. Principal axes: T 0.8720,Plg80.0000°,Azm74.0000°; N -0.0570,Plg9.0000°,Azm273.0000°; P -0.8140,Plg3.0000°,Azm182.0000° $M_0$0.84300×10^{17}
ISCJB Event type se.
ISC II 04 16 31 44.6–1.4 14.2S–.10 166.7E–.20 43 3.5b 7 8-120
IDC II 04 16 31 38.7–1.5 14.08S 166.57E 0 3.8,3.6 ¶17191671
ISCJB II 04 16 31 42.9–1.5 14.30S–.09 166.6E–.20 43 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC II 04 16 54 09.3–1.5 14.18S 166.61E 0 3.9,3.7
¶17191677
IDC Error ellipse: s-maj=47.7km s-min=27.1km az=101.0.
IDC II 04 17 15 33.0–1.5 14.19S 166.31E 0 4.0,3.8
¶17191680
IDC Error ellipse: s-maj=53.9km s-min=29.8km az=123.0.
IDC II 04 17 28 44.1–14 14.42S 165.98E 0 3.8,3.7
¶17191684
IDC Error ellipse: s-maj=244.7km s-min=37.6km az=58.0.
ISC II 04 18 51 35.0–.54 14.24S–.06 166.56E–.09 10 4.8b,3.6s 66 8-153
BJI II 04 18 51 31.5 14.49S 167.30E 24 5.2b,4.9s ¶16007680
ISCJB II 04 18 51 33.5–.37 14.27S–.04 166.45E–.07 10 4.7b,3.6s
IDC II 04 18 51 33.1–.98 14.28S 166.57E 0 4.4,4.4L
NEIC II 04 18 51 35.5–5.3 14.25S 166.53E 15–32 4.8b,4.4L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.1km az=179.4.
IDC Error ellipse: s-maj=28.4km s-min=16.5km az=115.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.7km az=103.0.
ISC II 04 19 48 11.6–.60 14.09S–.10 166.80E–.08 35 4.4b,3.6s 50 8-125
IDC II 04 19 48 04.9–1.3 14.45S 166.78E 0 4.9L,4.3 ¶16007681
NEIC II 04 19 48 07.6–.53 14.10S 166.76E 10 4.8b,4.3
ISCJB II 04 19 48 10.2–.45 14.05S–.08 166.78E–.07 33 4.4b,3.7s
BJI II 04 19 48 13.2 13.56S 166.21E 25 5.4b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=38.9km s-min=22.2km az=130.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=11.1km az=153.0.

ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.7km az=9.1.
ISC II 04 20 33 49.4–1.4 14.3S–.10 166.4E–.20 31 3.7b 7 8-96
IDC II 04 20 33 45.0–1.7 14.21S 166.23E 0 4.3,4.3s ¶17191693
ISCJB II 04 20 33 47.7–1.3 14.40S–.09 166.3E–.20 31 4.1s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 20 46 40.5–1.4 14.1S–.10 166.6E–.20 43 3.7b,3.5s 7 8-120
IDC II 04 20 46 34.8–1.5 13.94S 166.50E 0 3.9,3.7 ¶17191694
ISCJB II 04 20 46 38.7–1.4 14.18S–.09 166.6E–.20 43 3.7b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 21 47 36.7–.38 14.21S–.06 166.58E–.07 43 4.4b,3.5s 66 8-165
IDC II 04 21 47 30.8–.82 14.18S 166.55E 0 4.8L,4.4 ¶16328709
ISCJB II 04 21 47 34.9–.29 14.28S–.05 166.60E–.06 43 4.4b,3.5s
NEIC II 04 21 47 34.9–1.8 14.18S 166.58E 27–13 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=15.9km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.4km az=11.1.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=164.0.
ISC II 04 21 53 18.2–.50 14.21S–.07 166.47E–.09 43 4.2b 28 8-124
IDC II 04 21 53 12.0–1.3 14.13S 166.51E 0 4.1,4.0b ¶16328710
NEIC II 04 21 53 13.7–.24 14.13S 166.47E 10 4.3b,4.0b
ISCJB II 04 21 53 16.4–.39 14.27S–.05 166.44E–.07 43 4.2b,4.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 04 22 53 55.7–.62 14.4S–.10 166.75E–.10 10 4.2b 21 18-124
ISCJB II 04 22 53 54.0–.52 14.35S–.10 166.74E–.08 10 4.5b,3.8s ¶16328713
IDC II 04 22 53 53.5–2.3 14.45S 166.89E 0 4.2,4.1b
NEIC II 04 22 53 55.7–.35 14.35S 166.77E 10 4.2b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=10.4km az=157.1.
IDC Error ellipse: s-maj=72.3km s-min=22.3km az=125.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.3km az=159.0.
ISC II 05 04 09 13.5–.87 14.22S–.09 166.5E–.20 43 3.9b,3.5s 15 8-120
IDC II 05 04 09 07.7–1.1 14.00S 166.45E 0 4.6L,4.1 ¶16160370
ISCJB II 05 04 09 11.9–.74 14.30S–.07 166.5E–.10 43 3.9b,3.5s
NEIC II 05 04 09 12.7–.65 14.15S 166.49E 35 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=39.1km s-min=20.9km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=9.5km az=179.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=12.9km az=124.0.
IDC II 05 04 22 36.3–1.6 14.20S 166.39E 0 4.2,4.0
¶17191713
IDC Error ellipse: s-maj=46.6km s-min=28.9km az=119.0.
ISC II 05 06 22 02.8–.59 14.26S–.07 166.6E–.10 35 4.4b,3.8s 35 8-153
IDC II 05 06 21 57.6–.73 14.19S 166.60E 0 4.4,4.4L ¶16022438
ISCJB II 05 06 22 01.4–.52 14.22S–.06 166.52E–.10 35 4.3b,3.8s
NEIC II 05 06 22 03.8–2.2 14.20S 166.55E 44–20 4.5b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=15.4km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=9.1km az=4.6.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=11.3km az=213.0.
ISC II 05 07 51 27.1–.84 14.19S–.08 166.7E–.20 43 4.2b 18 8-139
IDC II 05 07 51 20.7–1.1 14.19S 166.72E 0 4.3,4.2 ¶16024684
ISCJB II 05 07 51 25.6–.76 14.24S–.06 166.5E–.20 43 4.1b,3.5s
NEIC II 05 07 51 26.2–.55 14.19S 166.62E 35 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=38.6km s-min=19.4km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=23.2km s-min=8.6km az=177.5.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=11.0km az=101.0.
ISC II 05 08 37 21.1–.60 14.17S–.05 166.66E–.08 33–3 4.9b,4.1s 171 8-153
ISCJB II 05 08 37 18.6–2.7 14.19S–.04 166.53E–.06 25–18 4.8b,4.1s ¶16007045
MOS II 05 08 37 20.8–.93 14.17S 166.48E 40 5.0b,4.1s
BJI II 05 08 37 20.9 13.77S 166.77E 35 5.2b,5.0s
NEIC II 05 08 37 22.4–1.0 14.16S 166.57E 42–9 5.0b,5.0s
GCMT II 05 08 37 22.4–.30 14.26S 166.45E 19–1 5.0W,5.0s
IDC II 05 08 37 22.9–2.8 14.25S 166.51E 49–26 4.5,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.8km az=167.0.
MOS Error ellipse: s-maj=11.7km s-min=9.2km az=131.4.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.9km az=76.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c32; s63,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.66±.26 $M_{\theta\theta}$-2.65±.16; $M_{\phi\phi}$-1.01±.16; $M_{r\theta}$1.57±.32; $M_{\theta\phi}$1.31±.08; $M_{\phi r}$0.73±.38; Best double couple: NP1:ϕ_s101.00000°,δ56.00000°,λ70.00000°. NP2:ϕ_s314.00000°,δ39.00000°,λ117.00000°. Principal axes: T 4.2310,Plg71.0000°,Azm322.0000°; N -0.6990,Plg16.0000°,Azm113.0000°; P -3.5330,Plg9.0000°,Azm205.0000° $M_0$3.88200×10^{16}
IDC Error ellipse: s-maj=23.0km s-min=14.0km az=77.0.
ISC II 05 09 56 21.8–.00 14.16S–.09 166.5E–.30 43 3.5b 7 8-97
IDC II 05 09 56 15.6–1.2 14.14S 166.55E 0 4.2L,3.9 ¶17191727
ISCJB II 05 09 56 20.2–.93 14.21S–.08 166.5E–.30 43 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC II 05 10 07 56.7–1.4 14.19S 166.71E 0 4.1,4.1b
¶17191729
IDC Error ellipse: s-maj=47.8km s-min=22.0km az=110.0.
ISC II 05 12 37 06.2–.45 14.00S–.06 166.33E–.08 43 4.7b,4.5s 106 8-153
IDC II 05 12 36 59.4–.59 13.96S 166.32E 0 4.8L,4.4 ¶16007684
MOS II 05 12 37 00.4–1.1 13.98S 166.30E 16 4.8b,4.4
ISCJB II 05 12 37 04.1–.30 14.04S–.04 166.37E–.06 43 4.7b,4.5s
BJI II 05 12 37 04.1 13.88S 166.45E 35 5.0b,4.9s
NEIC II 05 12 37 04.1–.28 14.08S 166.47E 35 4.9b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.3km az=109.0.
MOS Error ellipse: s-maj=12.6km s-min=11.2km az=7.2.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.2km az=12.8.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.5km az=121.0.
ISC II 05 12 38 09.5–.66 14.32S–.07 166.6E–.10 28 4.5b 25 8-125
IDC II 05 12 38 04.7–.87 14.39S 166.69E 0 4.5,4.4 ¶17191736
ISCJB II 05 12 38 07.9–.55 14.35S–.05 166.43E–.10 28 4.4b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC II 05 13 29 48.8–.69 14.26S–.08 166.7E–.10 35 4.2b,3.7s 23 8-120
IDC II 05 13 29 43.5–.82 14.26S 166.75E 0 4.4L,4.2 ¶16339710
ISCJB II 05 13 29 47.1–.57 14.29S–.05 166.57E–.09 35 4.2b,3.7s
NEIC II 05 13 29 48.7–.44 14.31S 166.69E 35 4.2b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=18.4km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=161.9.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.6km az=95.0.
ISC II 05 16 13 48.2–.97 14.20S–.08 166.8E–.20 35 4.3b 17 8-125
ISCJB II 05 16 13 46.4–.84 14.24S–.06 166.6E–.20 33 4.1b ¶17191748
IDC II 05 16 13 49.7–3.0 14.28S 166.66E 48–28 4.2,4.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=8.4km az=174.2.
IDC Error ellipse: s-maj=28.5km s-min=20.2km az=94.0.
IDC II 05 18 30 20.8–1.5 14.19S 166.49E 0 3.8,3.8L
¶17191754
IDC Error ellipse: s-maj=45.0km s-min=26.7km az=107.0.
ISC II 05 19 01 22.6–1.1 14.12S–.09 166.5E–.30 43 3.7b,3.7s 9 8-125
IDC II 05 19 01 16.7–1.4 14.00S 166.47E 0 4.0,3.9L ¶17191756
ISCJB II 05 19 01 20.8–1.0 14.19S–.07 166.4E–.20 43 3.7b,3.7s
ISC Event type ke.
ISCJB Event type ke.
IDC II 05 19 20 52.8–1.8 14.16S 166.51E 0 4.0L,3.7
¶17191758
IDC Error ellipse: s-maj=51.1km s-min=31.2km az=115.0.
ISC II 05 21 02 04.9–.38 14.23S–.06 166.81E–.07 35 4.8b,3.6s 170 8-154
IDC II 05 21 01 59.2–.57 14.31S 166.68E 0 4.5,4.4 ¶16007517

ISCJB II 05 21 02 03.0–.28 14.27S–.04 166.78E–.07 33 4.7b,3.7s
BJI II 05 21 02 03.7 13.84S 167.03E 35 5.0b,5.0s
NEIC II 05 21 02 04.6–1.4 14.32S 166.76E 36–12 4.8b,5.0s
MOS II 05 21 02 04.4–.88 13.88S 166.81E 33 5.0b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=15.0km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.3km az=177.8.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.9km az=74.0.
MOS Error ellipse: s-maj=16.8km s-min=9.7km az=123.8.
ISC II 05 22 22 32.2–.47 14.22S–.07 166.56E–.08 43 4.2b,3.3s 34 8-153
IDC II 05 22 22 26.3–.96 14.16S 166.52E 0 4.2,4.1L **¶16328744**
ISCJB II 05 22 22 30.3–.38 14.25S–.05 166.51E–.07 43 4.3b,3.4s
NEIC II 05 22 22 31.6–.90 14.22S 166.56E 38–8 4.3b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=20.5km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=7.3km az=175.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.6km az=182.0.
ISC II 06 00 14 25.6–.56 14.22S–.08 166.80E–.09 35 4.3b 25 8-153
IDC II 06 00 14 20.5–1.1 14.21S 166.81E 0 4.4,4.3 **¶16328756**
NEIC II 06 00 14 22.6–2.5 14.19S 166.80E 13–16 4.3b,4.3
ISCJB II 06 00 14 23.4–.42 14.28S–.06 166.77E–.08 33 4.3b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 06 01 06 50.5–.46 14.28S–.05 166.64E–.07 28–2 4.9b,3.8s 217 8-154
IDC II 06 01 06 46.1–.56 14.37S 166.71E 0 4.7,4.6 **¶16168808**
ISCJB II 06 01 06 48.8–.27 14.33S–.04 166.58E–.06 27 4.8b,3.9s
NEIC II 06 01 06 49.8–.20 14.32S 166.65E 23 5.0b,3.9s
MOS II 06 01 06 50.6–1.1 14.25S 166.41E 33 5.2b,3.9s
BJI II 06 01 06 50.1 13.98S 166.80E 30 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.5km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.6km az=12.9.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.1km az=137.0.
MOS Error ellipse: s-maj=11.0km s-min=8.7km az=133.3.
ISC II 06 01 30 18.5–.81 14.24S–.09 166.4E–.20 43 4.1b,3.2s 18 8-145
IDC II 06 01 30 12.3–1.4 14.11S 166.49E 0 3.9,3.8 **¶16160374**
ISCJB II 06 01 30 16.9–.72 14.31S–.07 166.4E–.10 43 4.0b,3.3s
NEIC II 06 01 30 17.4–5.7 14.17S 166.41E 33–39 4.4b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=47.8km s-min=27.8km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=9.2km az=172.2.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=13.9km az=204.0.
IDC II 06 01 39 48.7–1.9 14.26S 166.38E 0 3.9,3.7
¶17191773
IDC Error ellipse: s-maj=49.0km s-min=33.9km az=110.0.
ISC II 06 06 31 34.2–1.2 14.3S–.10 166.6E–.20 28 4.2b,3.8s 21 8-153
IDC II 06 06 31 29.8–1.3 14.28S 166.65E 0 5.0L,4.3 **¶16339712**
ISCJB II 06 06 31 33.6–1.1 14.2S–.10 166.4E–.20 28 4.2b,3.6s
NEIC II 06 06 31 35.2–.77 14.27S 166.60E 35 4.5b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=38.0km s-min=21.3km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=26.3km s-min=12.1km az=27.9.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=12.5km az=124.0.
IDC II 06 06 47 20.0–1.3 14.10S 166.47E 0 4.1,3.8
¶17191779
IDC Error ellipse: s-maj=42.2km s-min=26.9km az=119.0.
IDC II 06 07 02 36.7–1.4 14.05S 166.46E 0 4.0,3.8
¶17191780
IDC Error ellipse: s-maj=49.4km s-min=28.8km az=129.0.
ISC II 06 07 25 40.8–1.2 14.2S–.10 166.5E–.20 43 4.0b 8 8-120
IDC II 06 07 25 34.6–1.4 14.12S 166.57E 0 4.2,4.1b **¶17191781**
ISCJB II 06 07 25 39.3–1.3 14.22S–.08 166.5E–.20 43 4.0b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 07 31 46.9–1.1 14.22S–.09 166.6E–.20 35 4.0b 11 8-120
IDC II 06 07 31 41.5–1.3 14.23S 166.64E 0 4.2,4.1b **¶17191784**
ISCJB II 06 07 31 45.0–.97 14.30S–.07 166.6E–.20 33 4.0b,2.6s
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 09 27 16.1–.98 14.2S–.10 166.5E–.20 43 3.6b 8 8-125
IDC II 06 09 27 10.1–1.2 14.07S 166.41E 0 4.0,3.9L **¶17191788**
ISCJB II 06 09 27 14.5–.99 14.3S–.10 166.4E–.20 43 3.7b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 13 12 46.4–.62 14.13S–.08 166.5E–.10 43 4.5b,3.9s 40 8-153
IDC II 06 13 12 40.0–.79 14.11S 166.57E 0 4.5,4.5b **¶16026092**
BJI II 06 13 12 41.8 13.82S 166.88E 22 5.2b,5.2s
NEIC II 06 13 12 43.7–3.2 14.10S 166.53E 22–22 4.4b,5.2s
ISCJB II 06 13 12 44.7–.51 14.16S–.06 166.43E–.09 43 4.5b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 06 13 27 44.3–1.2 14.2S–.10 166.6E–.30 43 3.8b 8 8-120
IDC II 06 13 27 38.0–1.5 14.16S 166.60E 0 4.0,3.8 **¶17191794**
ISCJB II 06 13 27 43.0–1.2 14.3S–.10 166.5E–.20 43 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 13 46 54.8–.47 13.61S–.07 166.55E–.08 39 4.8b,4.2s 128 8-169
IDC II 06 13 46 48.9–.82 13.52S 166.62E 0 4.5,4.4 **¶16007699**
MOS II 06 13 46 53.8–1.4 13.38S 166.30E 33 5.1b,4.4
ISCJB II 06 13 46 53.1–.41 13.63S–.06 166.51E–.08 39 4.7b,4.2s
GCMT II 06 13 46 55.0–.30 13.60S 166.36E 19–1 5.0W,4.2s
NEIC II 06 13 46 55.0–1.5 13.56S 166.51E 44–12 4.8b,4.2s
BJI II 06 13 46 55.6 13.28S 166.36E 41 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=17.6km az=123.0.
MOS Error ellipse: s-maj=13.1km s-min=10.2km az=38.3.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=8.6km az=19.4.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s55,c73; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.55±.22 $M_{\theta\theta}$0.10±.15; $M_{\phi\phi}$-2.65±.16; $M_{r\theta}$1.61±.36; $M_{\theta\phi}$1.29±.09; $M_{\phi r}$-0.64±.26; Best double couple: NP1:ϕ_s136.00000°,δ61.00000° ,λ63.00000°. NP2:ϕ_s2.00000°,δ39.00000°,λ129.00000°. Principal axes: T 3.3480,Plg64.0000°,Azm0.0000°; N 0.0670,Plg23.0000°,Azm149.0000° ; P -3.4140,Plg12.0000°,Azm245.0000° $M_0$3.38100×10^{16}
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.4km az=95.0.
ISC II 06 22 19 13.5–.87 14.73S–.09 167.5E–.20 150 4.4b 31 7-154
IDC II 06 22 19 11.6–5.0 14.62S 167.38E 124–47 4.3,4.1 **¶16168811**
ISCJB II 06 22 19 12.7–.61 14.76S–.06 167.4E–.10 150 4.3b,4.1
NEIC II 06 22 19 12.6–1.9 14.70S 167.52E 140–9 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=37.9km s-min=23.1km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=8.3km az=7.3.
NEIC Event type se. Error ellipse: s-maj=26.5km s-min=15.0km az=132.0.
ISC II 07 04 14 26.0–1.0 14.16S–.10 166.2E–.20 31 3.6b 8 8-96
IDC II 07 04 14 21.3–1.2 14.11S 166.20E 0 4.0,3.8 **¶17191843**
ISCJB II 07 04 14 24.4–.95 14.25S–.08 166.1E–.20 31 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 04 33 49.7–1.0 14.25S–.09 166.6E–.20 43 3.8b 12 8-120
IDC II 07 04 33 43.6–1.0 14.15S 166.60E 0 4.1,4.0 **¶17191846**
ISCJB II 07 04 33 48.3–.89 14.33S–.07 166.5E–.20 43 3.8b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 07 19 21.9–1.1 14.19S–.10 166.6E–.20 43 3.9b 13 8-120
IDC II 07 07 19 15.5–1.4 14.15S 166.62E 0 4.0,3.9 **¶16358544**
ISCJB II 07 07 19 20.6–1.1 14.25S–.08 166.5E–.20 43 4.0b,3.9
NEIC II 07 07 19 21.0–.80 14.20S 166.61E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=40.2km s-min=23.4km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=10.8km az=168.5.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=14.6km az=106.0.
ISC II 07 07 35 43.4–1.1 14.21S–.10 166.6E–.20 43 3.6b 9 8-120
IDC II 07 07 35 37.3–1.4 14.14S 166.58E 0 3.9,3.9L **¶17191851**
ISCJB II 07 07 35 42.0–1.1 14.29S–.08 166.5E–.20 43 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC II 07 09 22 54.7–1.9 14.07S 166.46E 0 4.0,3.8
¶17191853
IDC Error ellipse: s-maj=44.5km s-min=29.5km az=110.0.
ISC II 07 11 46 36.2–1.2 19.4S–.20 168.5E–.20 35 4.0b,3.5s 11 3-101
IDC II 07 11 46 30.9–1.4 19.41S 168.51E 0 4.3,4.1 **¶17191858**
ISCJB II 07 11 46 34.9–1.1 19.4S–.10 168.3E–.20 33 4.0b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 15 55 45.2–1.0 14.3S–.10 166.8E–.20 35 4.1b 16 8-151
IDC II 07 15 55 39.8–1.2 14.37S 166.73E 0 4.2,4.2L **¶16026101**
ISCJB II 07 15 55 43.6–.00 14.42S–.10 166.6E–.20 35 4.0b,3.5s
NEIC II 07 15 55 45.6–2.3 14.35S 166.70E 38–19 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=34.8km s-min=21.9km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=22.1km s-min=13.7km az=175.0.
NEIC Event type se. Error ellipse: s-maj=24.3km s-min=17.0km az=86.0.
ISC II 07 16 09 20.8–.72 14.10S–.08 166.5E–.10 43 4.2b,3.3s 26 8-150
IDC II 07 16 09 13.5–1.1 14.14S 166.73E 0 4.3,4.3L **¶16026103**
ISCJB II 07 16 09 19.0–.66 14.04S–.07 166.44E–.09 43 4.2b,3.4s
NEIC II 07 16 09 18.9–.63 14.16S 166.71E 35 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=30.9km s-min=17.4km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=10.1km az=166.6.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=10.9km az=107.0.
ISC II 07 17 23 21.7–.90 14.19S–.08 166.4E–.10 43 4.1b,3.4s 18 8-120
IDC II 07 17 23 15.5–1.1 14.16S 166.44E 0 4.4L,4.2 **¶16328769**
ISCJB II 07 17 23 19.9–.84 14.22S–.06 166.3E–.10 43 4.0b,3.5s
NEIC II 07 17 23 19.5–4.5 14.18S 166.33E 24–31 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=29.6km s-min=19.2km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=7.5km az=159.5.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=13.6km az=82.0.
ISC II 07 18 27 43.9–1.2 14.3S–.10 167.2E–.20 150 3.7b 9 8-151
ISCJB II 07 18 27 42.9–1.4 14.27S–.09 167.1E–.20 150 3.5b **¶17191873**
IDC II 07 18 27 44.0–6.8 14.28S 167.21E 151–67 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.9km s-min=12.2km az=175.3.
IDC Error ellipse: s-maj=57.3km s-min=27.8km az=156.0.
ISC II 07 22 45 08.9–.89 14.17S–.08 166.4E–.20 43 4.1b 21 8-119
IDC II 07 22 45 02.7–1.2 14.14S 166.54E 0 4.2b,4.2 **¶16342593**
NEIC II 07 22 45 06.4–4.2 14.15S 166.46E 25–29 4.4b,4.2
ISCJB II 07 22 45 07.2–.74 14.24S–.06 166.5E–.10 43 4.1b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 08 22 42 52.0–4.7 13.19S 167.45E 0 3.8,3.7b
¶17191916
IDC Error ellipse: s-maj=196.4km s-min=33.3km az=139.0.
ISC II 09 01 29 50.1–.34 14.31S–.05 166.56E–.06 28 4.9b,4.3s 217 8-165
IDC II 09 01 29 45.5–.55 14.29S 166.59E 0 4.7,4.6 **¶16168818**
BJI II 09 01 29 48.8 14.01S 166.48E 16 5.4b,5.2s
ISCJB II 09 01 29 48.2–.27 14.31S–.04 166.59E–.05 28 4.8b,4.3s
GCMT II 09 01 29 49.4–.20 14.21S 166.50E 12 5.1W,4.3s
NEIC II 09 01 29 49.4–2.1 14.26S 166.59E 26–15 5.0b,4.3s
MOS II 09 01 29 50.0–1.1 14.21S 166.34E 33 5.1b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=13.5km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.3km az=18.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c69; s81,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.93±.12 $M_{\theta\theta}$-5.01±.09; $M_{\phi\phi}$1.07±.12; $M_{r\theta}$1.33±.27; $M_{\theta\phi}$0.31±.09; $M_{\phi r}$2.24±.42; Best double couple: NP1:ϕ_s67.00000°,δ59.00000° ,λ57.00000°. NP2:ϕ_s298.00000°,δ44.00000°,λ132.00000°. Principal axes: T 5.3260,Plg61.0000°,Azm285.0000°; N -0.1320,Plg28.0000°,Azm85.0000° ; P -5.2040,Plg8.0000°,Azm180.0000° $M_0$5.26500×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.0km az=145.0.
MOS Error ellipse: s-maj=11.3km s-min=9.6km az=134.2.
IDC II 09 02 14 49.2–1.9 14.17S 166.41E 0 3.9,3.6
¶17191925
IDC Error ellipse: s-maj=51.0km s-min=34.1km az=128.0.
ISC II 09 02 16 50.6–.71 14.26S–.08 166.6E–.20 28 4.3b 27 8-146
IDC II 09 02 16 46.0–1.2 14.28S 166.65E 0 4.4,4.3b **¶16172961**
ISCJB II 09 02 16 48.7–.69 14.31S–.06 166.6E–.10 28 4.4b,3.8s
NEIC II 09 02 16 51.7–.43 14.24S 166.56E 35 4.7b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=36.3km s-min=19.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=8.2km az=1.8.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.4km az=111.0.
ISC II 09 02 24 41.0–.79 14.1S–.10 166.4E–.20 43 4.3b,3.8s 24 8-153
IDC II 09 02 24 34.6–1.2 14.06S 166.53E 0 4.4,4.3b **¶16172962**
ISCJB II 09 02 24 39.3–.68 14.14S–.08 166.4E–.10 43 4.4b,3.8s
NEIC II 09 02 24 41.2–2.4 14.11S 166.45E 47–22 4.6b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=39.8km s-min=19.5km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=17.6km s-min=10.7km az=21.9.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=12.3km az=165.0.
ISC II 09 03 40 42.5–1.1 14.23S–.09 166.6E–.20 43 4.0b 10 8-120
IDC II 09 03 40 36.4–1.3 14.17S 166.62E 0 4.2,4.1 **¶17191926**
ISCJB II 09 03 40 41.3–1.0 14.31S–.07 166.5E–.20 43 4.0b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC II 09 06 02 00.4–1.4 14.14S 166.54E 0 4.3L,4.2
¶17191933
IDC Error ellipse: s-maj=46.6km s-min=27.6km az=123.0.
IDC II 09 06 08 48.9–3.8 13.03S 167.96E 0 4.0,3.7
¶17191934
IDC Error ellipse: s-maj=204.8km s-min=30.5km az=142.0.
ISC II 09 08 46 15.4–.52 14.14S–.09 166.43E–.08 43 4.5b,4.0s 36 8-165
IDC II 09 08 46 08.7–.64 14.25S 166.61E 0 4.6L,4.5 **¶16017966**
ISCJB II 09 08 46 13.8–.47 14.20S–.08 166.41E–.08 43 4.4b,4.1s
NEIC II 09 08 46 14.2–.34 14.24S 166.55E 35 4.9b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=16.4km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=10.7km az=42.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.2km az=104.0.
IDC II 09 10 38 11.4–35 13.49S 167.09E 0 3.9,3.7
¶17191939
IDC Error ellipse: s-maj=609.6km s-min=51.8km az=57.0.
IDC II 09 12 23 46.7–1.7 14.26S 166.10E 0 4.0,3.8
¶17191945
IDC Error ellipse: s-maj=47.3km s-min=31.5km az=144.0.
ISC II 09 14 51 15.2–.44 16.15S–.04 167.02E–.05 30–2 5.2b,4.6s 474 6-168
ISCJB II 09 14 51 14.0–.16 16.08S–.02 166.99E–.03 31 5.2b,4.5s **¶16168821**
BJI II 09 14 51 14.3 15.89S 166.93E 26 5.3b,5.1s
NEIC II 09 14 51 16.0–.15 16.07S 166.99E 35 5.3b,5.1s
MOS II 09 14 51 15.4–1.2 16.06S 166.78E 33 5.4b,5.1s
IDC II 09 14 51 16.3–2.8 16.13S 166.96E 37–21 5.5L,4.8
GCMT II 09 14 51 16.0–.10 16.14S 166.78E 31–0 5.2W,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=162.3.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.1km az=87.0.
MOS Error ellipse: s-maj=9.1km s-min=7.5km az=114.6.
IDC Error ellipse: s-maj=16.9km s-min=11.7km az=88.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c122; s102,c169; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.70±.02 $M_{\theta\theta}$0.03±.02; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$-0.22±.02; $M_{\theta\phi}$0.53±.01; $M_{\phi r}$0.10±.02; Best double couple: NP1:ϕ_s317.00000°,δ54.00000°,λ68.00000°. NP2:ϕ_s171.00000°,δ41.00000°,λ117.00000°. Principal axes: T 0.7690,Plg71.0000°,Azm172.0000°; N 0.2530,Plg17.0000°,Azm330.0000°; P -1.0220,Plg7.0000°,Azm62.0000° $M_0$0.89600×10^{17}

ISC	**II**	**09 21 20 15.9–.49**	**14.94S–.07**	**167.38E–.08**	**129**	**4.2b**	**43**	**7-166**	
ISCJB	II	09 21 20 14.7–.47	14.96S–.05	167.34E–.07	129	4.2b			¶16358560
NEIC	II	09 21 20 15.7–1.1	14.92S	167.39E	126–9	4.6b			
IDC	II	09 21 20 16.3–2.3	14.98S	167.34E	129–20	4.6,4.3			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=165.7.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=11.1km az=132.0.
IDC Error ellipse: s-maj=16.6km s-min=12.5km az=63.0.

IDC	**II**	**09 21 54 20.2–13**	**14.99S**	**165.84E**	**0**	**4.1L,3.9**			
									¶17191969

IDC Error ellipse: s-maj=235.6km s-min=36.5km az=56.0.

ISC	**II**	**10 09 41 57.5–.55**	**14.20S–.07**	**166.67E–.10**	**43**	**4.5b,3.9s**	**44**	**8-165**	
IDC	II	10 09 41 51.3–.55	14.20S	166.70E	0	4.5,4.5b			¶16358569
ISCJB	II	10 09 41 55.8–.45	14.23S–.05	166.60E–.08	43	4.5b,3.8s			
NEIC	II	10 09 41 55.1–3.3	14.19S	166.69E	24–22	4.8b,3.8s			

ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=12.8km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.2km az=166.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.6km az=72.0.

IDC	**II**	**10 16 03 27.8–14**	**14.38S**	**166.10E**	**0**	**3.9,3.9s**			
									¶17192019

IDC Error ellipse: s-maj=249.9km s-min=38.2km az=58.0.

IDC	**II**	**11 00 04 50.5–9.3**	**13.63S**	**166.36E**	**0**	**3.8,3.5**			
									¶17192039

IDC Error ellipse: s-maj=478.6km s-min=35.8km az=142.0.

ISC	**II**	**11 03 20 59.5–1.2**	**17.7S–.10**	**168.2E–.20**	**27**	**4.1b,3.2s**	**12**	**5-166**	
IDC	II	11 03 20 55.1–1.7	17.57S	168.18E	0	4.2,4.0			¶16193672
ISCJB	II	11 03 20 58.4–1.1	17.79S–.08	168.1E–.20	27	4.0b,3.2s			
NEIC	II	11 03 21 00.6–.74	17.68S	168.16E	35	4.4b,3.2s			

ISC Event type se.
IDC Error ellipse: s-maj=52.8km s-min=26.8km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=27.8km s-min=10.5km az=10.5.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=13.0km az=107.0.

ISC	**II**	**11 21 28 44.7–.61**	**14.12S–.08**	**166.5E–.10**	**43**	**4.0b**	**19**	**8-104**	
IDC	II	11 21 28 38.8–1.6	14.05S	166.54E	0	4.1,3.9			¶16269111
NEIC	II	11 21 28 40.5–4.0	14.09S	166.56E	11–26	4.1b,3.9			
ISCJB	II	11 21 28 42.9–.51	14.17S–.06	166.50E–.08	43	4.1b,3.9			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC	**II**	**14 04 14 21.5–3.6**	**13.58S**	**166.05E**	**0**	**4.0,3.7**			
									¶17192219

IDC Error ellipse: s-maj=197.1km s-min=31.4km az=143.0.

ISC	**II**	**14 15 20 53.6–.75**	**19.7S–.10**	**168.3E–.10**	**35**	**4.1b,3.9s**	**19**	**3-148**	
IDC	II	14 15 20 47.8–.88	19.73S	168.46E	0	4.3,4.1			¶16158780
NEIC	II	14 15 20 49.7–.62	19.70S	168.36E	10	4.5b,4.1			
ISCJB	II	14 15 20 52.0–.66	19.71S–.08	168.3E–.10	33	4.1b,3.9s			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC	**II**	**15 07 18 22.7–2.0**	**14.01S**	**166.40E**	**0**	**4.0,3.8**			
									¶17192290

IDC Error ellipse: s-maj=52.4km s-min=36.3km az=124.0.

ISC	**II**	**15 17 19 01.8–1.1**	**19.6S–.20**	**168.1E–.20**	**26**	**4.0b**	**10**	**3-101**	
IDC	II	15 17 18 58.0–1.4	19.45S	168.14E	0	4.2,3.9			¶16339743
NEIC	II	15 17 18 59.2–.85	19.47S	168.12E	10	4.2b,3.9			
ISCJB	II	15 17 19 00.2–1.0	19.6S–.10	168.1E–.20	26	3.9b,3.9			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC	**II**	**16 22 36 21.3–8.0**	**14.26S**	**167.10E**	**136–73**	**4.0,3.8**			
									¶17192389

IDC Error ellipse: s-maj=62.4km s-min=34.8km az=166.0.

ISC	**II**	**17 20 51 05.9–.30**	**14.21S–.04**	**166.51E–.04**	**27–1**	**5.4b,5.3s**	**470**	**8-165**	
IDC	II	17 20 51 00.8–.41	14.16S	166.48E	0	5.2,5.2s			¶16031171
ISCJB	II	17 20 51 04.9–.17	14.20S–.03	166.50E–.03	34	5.3s,5.2b			
GCMT	II	17 20 51 04.6–.10	14.24S	166.29E	12	5.6W,5.2b			
NEIC	II	17 20 51 04.6–.30	14.17S	166.47E	22–2	5.6W,5.5b			
MOS	II	17 20 51 05.9–1.4	13.97S	166.38E	33	5.6b,5.3s			
BJI	II	17 20 51 05.8	14.20S	166.40E	34	5.5s,5.4b			
NEIC	II	17 20 51 06.0–.00	14.23S	166.17E	34	5.5s,5.4b			

ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=13.3km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.0km az=11.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c188; s128,c315;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.13±.04 $M_{\theta\theta}$-0.55±.03; $M_{\phi\phi}$-1.58±.04; $M_{r\theta}$1.27±.09; $M_{\theta\phi}$2.72±.03; $M_{\phi r}$-0.26±.10; Best double couple: NP1:ϕ_s112.00000°,δ63.00000°,λ51.00000°. NP2:ϕ_s353.00000°,δ46.00000°,λ141.00000°. Principal axes: T 2.8540,Plg54.0000°,Azm332.0000°; N 1.1480,Plg34.0000°,Azm132.0000°; P -4.0050,Plg10.0000°,Azm229.0000° $M_0$3.42900×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.9km az=124.0.
MOS Error ellipse: s-maj=9.7km s-min=7.7km az=126.8.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$-0.60 $M_{r\theta}$-0.80 $M_{\theta\phi}$2.50 $M_{\phi r}$-0.40 Best double couple: NP1:ϕ_s276.00000°,δ71.00000°,λ27.00000°. NP2:ϕ_s177.00000°,δ65.00000°,λ159.00000°. Principal axes: T 2.5000,Plg32.0000°,Azm137.0000°; N 0.6000,Plg57.0000°,Azm308.0000°; P -3.1000,Plg4.0000°,Azm45.0000° $M_0$3.00000×10^{17}

ISC	**II**	**17 21 09 50.1–.50**	**14.23S–.07**	**166.4E–.10**	**10**	**4.4b**	**47**	**8-165**	
ISCJB	II	17 21 09 48.2–.36	14.29S–.05	166.31E–.07	10	4.3b			¶16339761
IDC	II	17 21 09 48.7–.75	14.22S	166.38E	0	4.3,4.3			
NEIC	II	17 21 09 50.2–.32	14.20S	166.35E	10	4.4b,4.3			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.2km az=6.6.
IDC Error ellipse: s-maj=25.1km s-min=16.7km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.7km az=138.0.

ISC	**II**	**19 13 52 11.9–.49**	**17.70S–.07**	**168.0E–.10**	**27**	**4.5b,3.8s**	**51**	**5-167**	
IDC	II	19 13 52 07.9–.52	17.61S	168.18E	0	4.6,4.4L			¶16176399
NEIC	II	19 13 52 09.2–.40	17.62S	168.13E	10	4.5b,4.4L			
ISCJB	II	19 13 52 10.6–.44	17.75S–.05	168.02E–.09	27	4.4b,3.9s			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC	**II**	**19 17 10 28.9–4.3**	**18.53S**	**169.15E**	**204–47**	**4.0,3.7**			
									¶17192544

IDC Error ellipse: s-maj=86.0km s-min=32.6km az=153.0.

IDC	**II**	**20 10 16 19.5–14**	**14.27S**	**166.16E**	**0**	**3.9,3.8b**			
									¶17192580

IDC Error ellipse: s-maj=247.4km s-min=38.6km az=59.0.

IDC	**II**	**20 12 53 57.8–4.2**	**18.73S**	**169.45E**	**254–55**	**3.7,3.3**			
									¶17192585

IDC Error ellipse: s-maj=122.6km s-min=30.4km az=156.0.

ISC	**II**	**21 00 32 59.5–.57**	**18.06S–.07**	**167.53E–.09**	**23**	**4.2b**	**21**	**4-99**	
IDC	II	21 00 32 56.2–2.1	18.05S	167.47E	0	4.9L,4.0			¶16363009
ISCJB	II	21 00 32 57.4–.49	18.05S–.06	167.48E–.08	23	4.2b,4.0			
NEIC	II	21 00 33 01.6–1.1	18.06S	167.54E	42–11	4.3b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=41.9km s-min=25.9km az=62.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=7.8km az=17.8.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.9km az=150.0.

ISC	**II**	**21 10 48 33.4–.95**	**14.19S–.10**	**166.8E–.20**	**35**	**4.0b**	**21**	**8-125**	
ISCJB	II	21 10 48 31.7–.81	14.24S–.06	166.7E–.10	33	4.1b			¶16398661
IDC	II	21 10 48 37.6–4.5	14.31S	166.68E	69–43	4.1L,4.0			
NEIC	II	21 10 48 38.5–1.4	14.31S	166.64E	78–12	4.6b,4.0			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=8.6km az=3.3.
IDC Error ellipse: s-maj=30.4km s-min=23.4km az=129.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=11.0km az=96.0.

IDC	**II**	**21 17 19 56.4–4.6**	**13.71S**	**166.67E**	**0**	**3.7,3.4**			
									¶17192645

IDC Error ellipse: s-maj=225.3km s-min=32.8km az=142.0.

ISC	**II**	**21 18 21 32.5–1.2**	**14.89S–.09**	**167.4E–.20**	**129**	**3.9b**	**12**	**7-120**	
ISCJB	II	21 18 21 31.4–1.0	14.91S–.07	167.4E–.20	129	3.8b			¶17192647
IDC	II	21 18 21 34.5–2.9	14.97S	167.31E	147–25	4.2,3.8			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=9.4km az=169.6.
IDC Error ellipse: s-maj=22.8km s-min=17.6km az=68.0.

IDC	**II**	**22 17 44 40.6–1.8**	**13.94S**	**166.28E**	**0**	**3.7,3.5**			
									¶17192719

IDC Error ellipse: s-maj=50.5km s-min=31.7km az=129.0.

ISC	**II**	**23 14 13 31.2–1.9**	**19.5S–.20**	**168.5E–.40**	**35**	**3.8b**	**8**	**3-101**	
IDC	II	23 14 13 26.4–2.1	19.35S	168.47E	0	4.1,4.0			¶17192746
ISCJB	II	23 14 13 29.9–1.8	19.4S–.20	168.4E–.30	33	3.9s,3.7b			

ISC Event type ke.
ISCJB Event type ke.

ISC	**II**	**23 23 41 02.9–.92**	**15.16S–.09**	**167.5E–.20**	**129**	**4.4b**	**21**	**7-166**	
ISCJB	II	23 23 41 02.3–.91	15.17S–.07	167.3E–.10	129	4.4b			¶16398822
IDC	II	23 23 41 02.6–3.0	15.14S	167.40E	122–25	4.5,4.2			
NEIC	II	23 23 41 04.5–2.8	15.21S	167.48E	144–24	4.3b,4.2			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=9.3km az=176.6.
IDC Error ellipse: s-maj=26.0km s-min=22.3km az=109.0.
NEIC Event type se. Error ellipse: s-maj=21.4km s-min=17.1km az=195.0.

ISC	**II**	**24 07 44 28.4–1.7**	**19.0S–.30**	**169.4E–.30**	**246**	**3.8b**	**12**	**4-125**	
ISCJB	II	24 07 44 27.6–1.7	18.9S–.20	169.3E–.30	246	3.8b			¶17192776
IDC	II	24 07 44 28.0–2.6	19.06S	169.47E	243–36	4.1,3.7			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.3km s-min=12.0km az=31.9.
IDC Error ellipse: s-maj=84.7km s-min=22.8km az=150.0.

IDC	**II**	**25 15 19 03.8–46**	**14.91S**	**169.95E**	**240–13**	**3.6,3.1**			
									¶17192847

IDC Error ellipse: s-maj=763.5km s-min=85.3km az=67.0.

ISC	**II**	**26 07 48 04.4–1.9**	**15.52S–.10**	**167.5E–.30**	**124**	**3.3b**	**8**	**7-121**	
IDC	II	26 07 48 04.7–4.3	15.55S	167.56E	129–43	3.7,3.4			¶17192894

ISC Event type ke.
IDC Error ellipse: s-maj=44.3km s-min=29.7km az=104.0.

ISC	**II**	**27 22 41 22.2–.51**	**19.44S–.08**	**169.65E–.09**	**250**	**4.5b**	**90**	**4-167**	
ISCJB	II	27 22 41 20.6–.43	19.49S–.06	169.68E–.07	250	4.5b			¶16399128
NEIC	II	27 22 41 21.5–2.7	19.37S	169.68E	242–7	4.7b			
IDC	II	27 22 41 22.2–2.0	19.36S	169.60E	246–16	4.5,4.1			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=41.7.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=14.5km az=135.0.
IDC Error ellipse: s-maj=25.2km s-min=14.3km az=136.0.

ISC	**II**	**28 11 18 03.8–1.4**	**14.7S–.10**	**167.3E–.30**	**100**	**3.4b**	**7**	**7-97**	
ISCJB	II	28 11 18 03.0–1.1	14.73S–.07	167.2E–.20	100	3.6b			¶17192992
IDC	II	28 11 18 03.3–7.6	14.67S	167.28E	93–80	3.8,3.7			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.2km s-min=10.5km az=0.0.
IDC Error ellipse: s-maj=65.2km s-min=29.4km az=146.0.

IDC	**II**	**28 15 53 36.1–2.2**	**13.64S**	**168.06E**	**0**	**3.9,3.7**			
									¶17193007

IDC Error ellipse: s-maj=102.4km s-min=26.9km az=138.0.

ISC	**III**	**01 13 15 26.1–.83**	**13.6S–.10**	**167.5E–.10**	**150**	**4.0b**	**26**	**8-150**	
ISCJB	III	01 13 15 24.6–.87	13.6S–.10	167.5E–.10	150	4.0b			¶16304908
IDC	III	01 13 15 28.2–3.7	13.56S	167.35E	166–27	4.3,3.8			
NEIC	III	01 13 15 29.7–3.3	13.50S	167.28E	178–25	4.3b,3.8			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=14.5km az=34.1.
IDC Error ellipse: s-maj=35.1km s-min=14.1km az=119.0.
NEIC Event type se. Error ellipse: s-maj=28.5km s-min=12.3km az=111.0.

IDC	**III**	**02 06 06 42.5–2.1**	**14.38S**	**166.83E**	**0**	**4.2,4.0**			
									¶17193111

IDC Error ellipse: s-maj=79.1km s-min=22.9km az=131.0.

IDC	**III**	**02 08 06 20.7–76**	**14.41S**	**167.84E**	**0**	**4.2,4.0**			
									¶17193115

IDC Error ellipse: s-maj=1288.0km s-min=116.7km az=65.0.

ISC	**III**	**02 17 17 14.8–.62**	**16.06S–.07**	**166.83E–.07**	**24–3**	**5.1b,4.1s**	**194**	**9-165**	
IDC	III	02 17 17 10.5–.88	16.13S	166.83E	0	4.8,4.7b			¶16173039
BJI	III	02 17 17 13.3	15.75S	166.77E	17	5.3s,5.2b			
GCMT	III	02 17 17 14.9–.30	15.98S	166.46E	27–0	4.9W,5.2b			
NEIC	III	02 17 17 14.9–.69	16.00S	166.78E	26–4	5.1b,5.2b			
ISCJB	III	02 17 17 15.6–1.7	15.93S–.06	166.66E–.05	37–14	5.0b,4.1s			
MOS	III	02 17 17 16.0–1.4	15.81S	166.50E	33	5.1b,4.1s			

ISC Event type se.
IDC Error ellipse: s-maj=29.5km s-min=17.6km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c37; s54,c74; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.02±.18 $M_{\theta\theta}$-0.38±.15; $M_{\phi\phi}$-2.64±.12; $M_{r\theta}$0.97±.26; $M_{\theta\phi}$1.05±.09; $M_{\phi r}$0.33±.18; Best double couple: NP1:ϕ_s142.00000°,δ48.00000°,λ66.00000°. NP2:ϕ_s355.00000°,δ47.00000°,λ114.00000°. Principal axes: T 3.3390,Plg73.0000°,Azm340.0000°; N -0.2870,Plg17.0000°,Azm158.0000°; P -3.0530,Plg0.0000°,Azm248.0000° $M_0$3.19600×10^{16}
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.0km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=8.2km az=152.8.
MOS Error ellipse: s-maj=10.6km s-min=9.1km az=37.9.

IDC	**III**	**02 17 58 01.2–5.0**	**14.06S**	**167.16E**	**0**	**3.7,3.5**			
									¶17193155

IDC Error ellipse: s-maj=213.9km s-min=39.6km az=140.0.

ISC	**III**	**03 02 08 44.7–1.3**	**17.8S–.10**	**167.3E–.20**	**23**	**4.3b,3.5s**	**12**	**11-145**	
IDC	III	03 02 08 40.3–1.7	17.84S	167.46E	0	5.2L,4.5			¶16342400
ISCJB	III	03 02 08 43.6–1.2	17.70S–.10	167.2E–.20	23	4.2b,3.5s			
NEIC	III	03 02 08 45.6–1.1	17.87S	167.45E	35	4.2b,3.5s			

ISC Event type se.
IDC Error ellipse: s-maj=53.8km s-min=23.9km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=13.0km az=159.2.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=15.5km az=125.0.

IDC	**III**	**03 14 38 37.2–38**	**14.94S**	**165.40E**	**0**	**4.1,3.9**			
									¶17193192

IDC Error ellipse: s-maj=644.5km s-min=93.9km az=69.0.

IDC	**III**	**03 21 43 06.0–61**	**13.35S**	**168.88E**	**0**	**3.9,3.7**			
									¶17193208

IDC Error ellipse: s-maj=1048.0km s-min=117.9km az=65.0.

ISC	**III**	**04 03 27 18.7–.91**	**18.2S–.20**	**167.6E–.20**	**23**	**4.5b**	**30**	**11-166**	
IDC	III	04 03 27 15.3–1.1	18.09S	167.53E	0	4.5,4.3b			¶16339069
ISCJB	III	04 03 27 17.7–.79	18.1S–.20	167.4E–.10	23	4.3b,3.4s			
NEIC	III	04 03 27 20.6–.58	18.14S	167.52E	35	4.5b,3.4s			

ISC Event type se.
IDC Error ellipse: s-maj=51.3km s-min=19.6km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=25.5km s-min=12.6km az=146.3.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=10.2km az=151.0.

ISC	**III**	**06 00 25 23.9–.70**	**14.4S–.20**	**167.3E–.10**	**10**	**4.0b**	**14**	**9-97**	
ISCJB	III	06 00 25 21.9–.59	14.5S–.20	167.31E–.09	10	4.2b			¶16404859
IDC	III	06 00 25 22.5–2.8	14.31S	167.24E	0	4.1,3.9b			
NEIC	III	06 00 25 23.9–.39	14.41S	167.31E	10	4.1b,3.9b			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.1km s-min=12.9km az=171.9.
IDC Error ellipse: s-maj=106.9km s-min=32.0km az=133.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=8.6km az=172.0.

ISC	**III**	**07 06 37 07.8–.63**	**14.4S–.10**	**166.66E–.09**	**28**	**4.7b,3.5s**	**41**	**8-165**	
IDC	III	07 06 37 03.2–.92	14.39S	166.72E	0	5.0L,4.5			¶16449406
NEIC	III	07 06 37 04.8–.46	14.42S	166.76E	10	4.7b,4.5			
ISCJB	III	07 06 37 05.9–.60	14.4S–.10	166.63E–.08	28	4.5b,3.5s			

ISC Event type se.
NEIC Event type se.

ISCJB Event type se.
ISC III 07 13 28 30.9–.52 19.34S–.08 169.46E–.06 204–3 4.8b 358 18-167
MOS III 07 13 28 26.6–1.1 19.16S 169.35E 168 5.0b **¶16461122**
BJI III 07 13 28 29.9 18.68S 169.40E 180 4.8b,4.8b
NEIC III 07 13 28 31.6–.19 19.23S 169.34E 203 4.9b,4.8b
IDC III 07 13 28 31.4–.69 19.46S 169.50E 210–4 4.9,4.5
GCMT III 07 13 28 31.5–.30 19.39S 169.34E 234–2 5.0W,4.5
ISCJB III 07 13 28 34.4–2.1 19.31S–.06 169.25E–.04 240–20 4.7b,4.5
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s76,c97;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.62±.17 $M_{\theta\theta}$1.11±.19; $M_{\phi\phi}$-2.73±.16; $M_{r\theta}$2.68±.18; $M_{\theta\phi}$-0.22±.20; $M_{\phi r}$-2.47±.14; Best double couple: NP1:ϕ_s145.00000°,δ78.00000°,λ62.00000°. NP2:ϕ_s33.00000°,δ30.00000°,λ156.00000°. Principal axes: T 4.6180,Plg49.0000°,Azm25.0000°; N -0.5790,Plg27.0000°,Azm150.0000° ; P -4.0390,Plg28.0000°,Azm256.0000° $M_0$4.32900×10^{16}
ISCJB Event type se.
ISC III 07 15 11 43.2–1.3 14.1S–.20 166.4E–.30 43 3.7b 9 8-96
IDC III 07 15 11 36.8–2.4 14.09S 166.45E 0 4.0,3.9b **¶16341329**
ISCJB III 07 15 11 42.0–1.2 14.2S–.20 166.3E–.20 43 3.9b,3.2s
NEIC III 07 15 11 42.3–.90 14.13S 166.40E 35 4.6b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=82.7km s-min=26.6km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=34.2km s-min=21.4km az=36.6.
NEIC Event type se. Error ellipse: s-maj=27.4km s-min=17.1km az=126.0.
ISC III 08 00 29 18.1–1.9 19.1S–.40 170.4E–.30 35 4.2b 9 23-145
IDC III 08 00 29 12.3–1.9 19.20S 170.51E 0 4.4,4.3b **¶17193441**
ISCJB III 08 00 29 17.2–1.9 19.2S–.30 170.3E–.30 33 4.2b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 01 30 37.9–.55 20.3S–.10 170.95E–.10 35 4.6b,3.6s 79 18-167
BJI III 09 01 30 31.1 19.59S 172.47E 81 4.8b,4.7b **¶16299005**
IDC III 09 01 30 33.0–.84 20.32S 170.99E 0 4.6,4.4b
ISCJB III 09 01 30 36.4–.52 20.31S–.06 170.91E–.08 33 4.6b,3.6s
NEIC III 09 01 30 42.2–3.4 20.42S 170.86E 71–30 4.6b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=19.9km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.9km az=152.4.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=6.9km az=220.0.
IDC III 11 17 47 15.5–55 14.01S 169.14E 0 4.3,4.1
¶16425245
IDC Error ellipse: s-maj=941.8km s-min=116.7km az=66.0.
ISC III 13 08 45 47.9–.38 15.18S–.08 167.44E–.07 129 4.9b 97 9-166
ISCJB III 13 08 45 46.9–.26 15.20S–.05 167.40E–.05 129 4.8b **¶16310914**
IDC III 13 08 45 49.9–2.6 15.16S 167.43E 147–23 4.7,4.3
NEIC III 13 08 45 50.9–1.1 15.15S 167.36E 155–10 4.9b,4.3
BJI III 13 08 45 53.6 15.11S 166.74E 163 4.9b,4.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.7km az=35.5.
IDC Error ellipse: s-maj=13.3km s-min=12.2km az=57.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.8km az=51.0.
IDC III 13 15 42 22.0–14 13.11S 168.30E 0 4.1,4.0
¶17194907
IDC Error ellipse: s-maj=231.8km s-min=108.4km az=53.0.
ISC III 14 03 59 51.6–.39 14.54S–.08 167.34E–.08 170 4.5b 137 11-166
IDC III 14 03 59 50.4–1.6 14.49S 167.42E 157–12 4.7,4.4 **¶16461680**
ISCJB III 14 03 59 50.4–.28 14.51S–.06 167.36E–.06 170 4.5b,4.4
BJI III 14 03 59 56.4 13.85S 167.35E 203 4.9b,4.6b
NEIC III 14 03 59 57.5–1.3 14.51S 167.28E 222–13 4.6b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=11.2km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.7km az=137.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.9km az=161.0.
ISC III 15 00 31 17.0–.59 19.54S–.09 168.3E–.10 35 4.6b,3.4s 38 3-166
IDC III 15 00 31 11.2–1.2 19.52S 168.41E 0 4.4,4.3 **¶16478032**
ISCJB III 15 00 31 15.8–.43 19.51S–.07 168.18E–.07 33 4.7b,3.4s
NEIC III 15 00 31 19.2–1.3 19.67S 168.23E 55–13 4.8b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=37.1km s-min=19.4km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.0km az=137.1.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=8.3km az=158.0.
ISC III 15 03 58 26.0–.69 13.68S–.06 167.26E–.06 184–5 4.8b 218 8-170
IDC III 15 03 58 25.8–.74 13.65S 167.22E 180–6 4.8,4.4 **¶16461783**
ISCJB III 15 03 58 29.6–1.2 13.64S–.05 167.10E–.05 227–10 4.7b,4.4
NEIC III 15 03 58 30.1–.86 13.63S 167.10E 218–7 4.8b,4.4
GCMT III 15 03 58 30.1–.30 13.48S 166.97E 201–3 5.0W,4.4
ISC Event type se.
IDC Error ellipse: s-maj=12.1km s-min=9.3km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=7.9km az=163.6.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.2km az=102.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c42; s66,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.89±.16 $M_{\theta\theta}$-0.21±.19; $M_{\phi\phi}$-3.68±.17; $M_{r\theta}$-0.28±.19; $M_{\theta\phi}$0.58±.20; $M_{\phi r}$-0.49±.17; Best double couple: NP1:ϕ_s176.00000°,δ48.00000° ,λ97.00000°. NP2:ϕ_s346.00000°,δ42.00000°,λ83.00000°. Principal axes: T 3.9450,Plg84.0000°,Azm138.0000°; N -0.1470,Plg5.0000°,Azm351.0000° ; P -3.7980,Plg3.0000°,Azm261.0000° $M_0$3.87200×10^{16}
IDC III 15 14 02 37.9–2.6 15.29S 167.86E 0 4.1,3.9
¶17196161
IDC Error ellipse: s-maj=113.0km s-min=30.7km az=137.0.
IDC III 16 11 34 07.3–5.5 17.09S 167.62E 0 4.0,3.9
¶17196451
IDC Error ellipse: s-maj=146.4km s-min=45.8km az=121.0.
ISC III 17 02 48 01.9–.42 17.24S–.04 167.76E–.03 28–2 6.1s,5.6b 975 10-167
BJI III 17 02 47 58.0 17.30S 167.70E 15 6.1s,6.0b **¶16461880**
NEIC III 17 02 47 59.0–.00 17.14S 167.74E 15 6.1s,6.0b
NEIC III 17 02 48 00.0–.12 17.28S 167.83E 17 6.3W,6.2W
GCMT III 17 02 48 00.0–.10 17.32S 167.64E 22–0 6.2W,6.2W
ISCJB III 17 02 48 01.6–1.1 17.26S–.02 167.75E–.02 33–7 6.1s,5.5b
IDC III 17 02 48 01.8–1.5 17.29S 167.71E 25–9 5.9,5.9s
MOS III 17 02 48 02.2–1.2 17.20S 167.68E 37 6.1s,5.8b
NEIC III 17 02 48 20.5–.00 16.83S 167.34E 30 6.1s,5.8b
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}2.13 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$-2.05 $M_{r\theta}$0.75 $M_{\theta\phi}$0.38 $M_{\phi r}$-1.68 Best double couple: NP1:ϕ_s161.00000° ,δ65.00000°,λ83.00000°. NP2:ϕ_s358.00000°,δ25.00000°,λ105.00000°. Principal axes: T 2.8400,Plg68.0000°,Azm56.0000°; N -0.0500,Plg6.0000°,Azm163.0000° ; P -2.7900,Plg20.0000°,Azm256.0000° $M_0$2.80000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.9km az=125.0. Felt [IV] at Port-Vila. Also felt at Luganville. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$4.90000×10^{18} Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}1.55 $M_{\theta\theta}$0.11 $M_{\phi\phi}$-1.66 $M_{r\theta}$0.21 $M_{\theta\phi}$0.36 $M_{\phi r}$-0.83 Best double couple: NP1:ϕ_s167.00000°,δ59.00000°,λ88.00000°. NP2:ϕ_s351.00000° ,δ31.00000°,λ93.00000°. Principal axes: T 1.7600,Plg76.0000°,Azm72.0000° ; N 0.1800,Plg1.0000°,Azm168.0000°; P -1.9400,Plg14.0000°,Azm259.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s165.00000°,δ70.00000°,λ90.00000°. Principal axes: T Plg65.0000°,Azm75.0000°; N Plg0.0000°,Azm0.0000°; P Plg25.0000° ,Azm255.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c346; s144,c523;Duration: 3$\hat{s}$1 Moment tensor: Scale 10^{18} Nm; M_{rr}2.10±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$-2.15±.01; $M_{r\theta}$0.44±.02; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$-1.41±.02; Best double couple: NP1:ϕ_s166.00000°,δ62.00000°,λ86.00000°. NP2:ϕ_s354.00000° ,δ28.00000°,λ98.00000°. Principal axes: T 2.5620,Plg73.0000°,Azm66.0000° ; N 0.1100,Plg4.0000°,Azm168.0000°; P -2.6730,Plg17.0000°,Azm259.0000° $M_0$2.61800×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=31.2.
IDC Error ellipse: s-maj=8.7km s-min=7.6km az=43.0.
MOS Error ellipse: s-maj=7.4km s-min=6.8km az=43.4.
NEIC Event type se. Moment Tensor Solution. s81 Moment tensor: Scale 10^{18}Nm; M_{rr}2.51 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$-2.41 $M_{r\theta}$0.59 $M_{\theta\phi}$0.33 $M_{\phi r}$-1.63 Best double couple: NP1:ϕ_s165.00000° ,δ62.00000°,λ84.00000°. NP2:ϕ_s358.00000°,δ28.00000°,λ101.00000°. Principal axes: T 3.0700,Plg72.0000°,Azm61.0000°; N -0.0900,Plg5.0000°,Azm168.0000° ; P -2.9900,Plg17.0000°,Azm260.0000° $M_0$3.00000×10^{18}
ISC III 17 03 01 24.3–.65 17.3S–.10 167.7E–.20 19 4.5b 33 21-166
IDC III 17 03 01 21.6–.81 17.23S 167.68E 0 4.4,4.3 **¶16427641**
ISCJB III 17 03 01 22.9–.66 17.27S–.09 167.6E–.10 19 4.3b,4.3
NEIC III 17 03 01 22.9–.47 17.22S 167.71E 10 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=18.4km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=12.8km az=178.4.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=12.2km az=98.0.
ISC III 17 03 03 47.3–.97 17.2S–.20 167.7E–.20 25 4.2b 15 23-145
IDC III 17 03 03 43.8–.98 17.20S 167.69E 0 4.4,4.3 **¶17196606**
ISCJB III 17 03 03 46.4–.96 17.3S–.10 167.6E–.20 25 4.1b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 05 46 29.6–.64 17.3S–.10 168.0E–.10 27 5.1s,4.3b 21 10-166
IDC III 17 05 46 25.7–1.1 17.30S 167.90E 0 5.0s,5.0 **¶16478717**
NEIC III 17 05 46 27.1–.43 17.26S 167.97E 10 4.5b,5.0
ISCJB III 17 05 46 28.5–.77 17.3S–.10 167.8E–.10 27 5.0s,4.4b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 17 08 03 04.4–.45 17.35S–.04 167.82E–.03 31–2 5.7s,5.5b 705 10-167
IDC III 17 08 02 58.6–1.8 17.33S 167.99E 0–10 5.5,5.5s **¶16911946**
GCMT III 17 08 03 00.8–.10 17.34S 167.69E 30–0 5.9W,5.5s
NEIC III 17 08 03 00.8–.12 17.27S 167.90E 10 5.8W,5.8W
BJI III 17 08 03 03.0 17.30S 167.80E 30 6.0s,5.7
ISCJB III 17 08 03 03.0–.12 17.26S–.02 167.85E–.02 33 5.7s,5.4b
MOS III 17 08 03 03.3–1.0 17.20S 167.76E 33 5.8b,5.7s
NEIC III 17 08 03 03.0–.00 17.09S 167.71E 23 5.8b,5.7s
ISC Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=10.8km az=40.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c262; s135,c381;Duration: 2$\hat{s}$1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.67±.01 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$-0.70±.01; $M_{r\theta}$0.17±.01; $M_{\theta\phi}$0.16±.00; $M_{\phi r}$-0.40±.01; Best double couple: NP1: ϕ_s162.00000°,δ61.00000°,λ83.00000°. NP2:ϕ_s355.00000°,δ30.00000°,λ102.00000°. Principal axes: T 0.7960,Plg73.0000°,Azm56.0000°; N 0.0580,Plg6.0000°,Azm165.0000° ; P -0.8540,Plg16.0000°,Azm257.0000° $M_0$0.82500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.8km az=145.0. Felt [IV] at Port-Vila. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17}Nm; M_{rr}4.87 $M_{\theta\theta}$-0.05 $M_{\phi\phi}$-4.81 $M_{r\theta}$1.44 $M_{\theta\phi}$0.10 $M_{\phi r}$-2.94 Best double couple: NP1:ϕ_s166.00000°,δ62.00000°,λ78.00000°. NP2:ϕ_s11.00000°,δ30.00000°,λ112.00000°. Principal axes: T 6.0000,Plg70.0000° ,Azm49.0000°; N -0.3200,Plg11.0000°,Azm172.0000°; P -5.6800,Plg16.0000° ,Azm265.0000° $M_0$5.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.1km az=26.6.
MOS Error ellipse: s-maj=7.8km s-min=7.2km az=122.1.
NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}6.50 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$-5.80 $M_{r\theta}$1.10 $M_{\theta\phi}$1.36 $M_{\phi r}$-1.92 Best double couple: NP1:ϕ_s161.00000° ,δ54.00000°,λ84.00000°. NP2:ϕ_s350.00000°,δ36.00000°,λ98.00000°. Principal axes: T 6.9000,Plg79.0000°,Azm48.0000°; N -0.4000,Plg4.0000°,Azm164.0000° ; P -6.5000,Plg9.0000°,Azm255.0000° $M_0$6.70000×10^{17}
IDC III 17 08 13 57.8–4.8 14.59S 166.65E 0 4.2,4.0
¶17196653
IDC Error ellipse: s-maj=194.7km s-min=31.8km az=142.0.
ISC III 17 09 06 18.5–.50 17.4S–.10 167.57E–.10 19 4.2b 43 10-166
IDC III 17 09 06 15.2–.74 17.30S 167.77E 0 4.2,4.1 **¶17196662**
NEIC III 17 09 06 16.6–.41 17.30S 167.75E 10 5.0b,4.1
ISCJB III 17 09 06 17.1–.54 17.3S–.10 167.56E–.09 19 4.3b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 17 15 16 47.1–69 16.77S 167.84E 0 4.0,3.8
¶17196748
IDC Error ellipse: s-maj=1165.0km s-min=111.1km az=69.0.
IDC III 17 15 40 41.4–2.0 13.88S 165.58E 0 4.8L,4.3
¶17196755
IDC Error ellipse: s-maj=41.8km s-min=34.7km az=121.0.
IDC III 17 20 41 43.9–76 15.78S 169.82E 0 4.1,4.0b
¶17196804
IDC Error ellipse: s-maj=1295.0km s-min=128.2km az=69.0.
ISC III 18 11 25 24.6–.71 17.73S–.09 167.31E–.09 19 4.2b,3.6s 18 4-98
IDC III 18 11 25 22.1–2.6 17.63S 167.30E 0 4.2,4.0 **¶16479170**
NEIC III 18 11 25 23.4–.56 17.63S 167.34E 10 4.5b,4.0
ISCJB III 18 11 25 23.5–.68 17.80S–.07 167.28E–.09 19 4.2b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 18 23 16 03.5–.49 17.72S–.07 167.5E–.10 19 4.5b,4.1s 39 4-166
IDC III 18 23 16 00.1–.85 17.60S 167.57E 0 4.5,4.4 **¶16358656**
ISCJB III 18 23 16 01.8–.43 17.74S–.05 167.50E–.08 19 4.4b,4.0s
NEIC III 18 23 16 02.1–.31 17.64S 167.52E 10 4.6b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=18.4km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=7.7km az=12.2.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.8km az=139.0.
ISC III 19 05 23 10.5–.45 19.43S–.07 168.46E–.09 35 4.9b,4.2s 100 3-166
IDC III 19 05 23 04.8–.65 19.36S 168.46E 0 4.7,4.7L **¶16339140**
ISCJB III 19 05 23 08.9–.24 19.43S–.04 168.35E–.05 33 4.8b,4.1s
BJI III 19 05 23 13.9 18.65S 168.84E 64 5.2s,5.1b
NEIC III 19 05 23 14.6–1.2 19.40S 168.35E 74–11 4.9b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.6km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.4km az=41.9.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.4km az=170.0.
ISC III 20 05 07 59.8–1.5 17.7S–.10 167.7E–.20 19 3.8b,3.3s 9 5-142
IDC III 20 05 07 56.9–1.9 17.68S 167.67E 0 4.1,3.9 **¶17197390**
ISCJB III 20 05 07 58.4–1.3 17.71S–.08 167.6E–.20 19 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 08 18 30.1–.76 14.73S–.08 167.42E–.09 170 4.5b 24 7-166
ISCJB III 20 08 18 28.6–.76 14.70S–.07 167.43E–.08 170 4.6b **¶16479687**
IDC III 20 08 18 29.1–2.3 14.70S 167.41E 162–18 4.7,4.2
NEIC III 20 08 18 30.6–1.2 14.75S 167.43E 178–12 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.0km az=147.2.
IDC Error ellipse: s-maj=20.8km s-min=16.8km az=78.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=10.7km az=190.0.
ISC III 20 21 32 15.5–1.3 17.3S–.10 167.8E–.30 27 4.2b 18 5-145
IDC III 20 21 32 11.4–1.4 17.29S 167.83E 0 4.4,4.3 **¶16479831**
ISCJB III 20 21 32 14.4–1.1 17.29S–.07 167.7E–.20 27 4.1b,3.3s
NEIC III 20 21 32 16.6–.77 17.36S 167.82E 35 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=41.3km s-min=21.3km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=27.3km s-min=9.5km az=6.3.
NEIC Event type se. Error ellipse: s-maj=21.0km s-min=11.8km az=116.0.
ISC III 21 07 19 46.0–.43 19.16S–.07 168.72E–.08 41–3 4.8b,3.9s 136 4-166
IDC III 21 07 19 40.0–.55 19.04S 168.72E 0 4.8L,4.6 **¶16340101**
ISCJB III 21 07 19 46.0–1.6 19.13S–.06 168.60E–.05 50–14 4.8b,4.0s
NEIC III 21 07 19 46.2–.22 19.07S 168.70E 41 4.9b,4.0s
BJI III 21 07 19 46.7 18.41S 168.85E 40 5.1b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=14.4km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=8.5km az=179.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.0km az=129.0.
IDC III 21 09 34 17.9–12 14.87S 166.49E 0 4.0,3.9b
¶17197657
IDC Error ellipse: s-maj=216.5km s-min=38.2km az=61.0.
IDC III 22 06 48 23.2–2.4 20.58S 169.75E 0 4.3,4.0b
¶17197945
IDC Error ellipse: s-maj=115.4km s-min=26.7km az=152.0.

IDC III 22 09 04 43.9–2.5 20.20S 169.79E 0 4.2,3.9
¶17197968

IDC Error ellipse: s-maj=151.6km s-min=31.2km az=154.0.
IDC III 23 09 15 05.9–2.1 19.72S 168.05E 0 4.8s,4.8
¶17198158

IDC Error ellipse: s-maj=112.3km s-min=31.6km az=156.0.
IDC III 24 03 05 32.3–69 15.22S 167.57E 0 3.9,3.8
¶17198276

IDC Error ellipse: s-maj=1164.0km s-min=117.0km az=67.0.
IDC III 25 08 36 34.6–1.7 14.06S 166.45E 0 3.9,3.9L
¶17198471

IDC Error ellipse: s-maj=50.3km s-min=31.4km az=128.0.
ISC III 26 17 25 41.7–1.3 19.7S–.10 168.3E–.20 35 3.9b,3.3s 14 3-98
IDC III 26 17 25 36.2–1.6 19.64S 168.29E 0 4.2,4.1L ¶16481043
ISCJB III 26 17 25 40.0–.86 19.57S–.09 168.1E–.10 33 4.0b,3.3s
NEIC III 26 17 25 44.5–3.2 19.84S 168.22E 60–27 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=27.3km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=11.1km az=32.5.
NEIC Event type se. Error ellipse: s-maj=31.2km s-min=16.0km az=190.0.
ISC III 26 18 42 03.5–.54 18.7S–.10 169.5E–.10 240 4.3b 60 13-167
NEIC III 26 18 41 52.6–1.7 18.43S 169.48E 134–16 4.7b ¶16481057
IDC III 26 18 41 53.7–.93 18.71S 169.68E 151–6 4.4,4.1
ISCJB III 26 18 42 02.6–.33 18.72S–.07 169.40E–.07 240 4.3b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 18 42 19.0–1.3 19.9S–.10 168.1E–.20 27 4.3b,3.6s 11 3-165
IDC III 26 18 42 13.9–4.6 19.68S 168.24E 0 4.6,4.5 ¶17198677
ISCJB III 26 18 42 18.6–1.7 19.9S–.10 168.0E–.20 27 4.4b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC III 27 03 51 20.2–4.2 19.26S 169.05E 0 4.0,3.8
¶17198722

IDC Error ellipse: s-maj=97.2km s-min=54.7km az=126.0.
IDC III 28 15 47 08.2–11 15.98S 165.23E 0 4.1,4.0b
¶17198968

IDC Error ellipse: s-maj=203.1km s-min=32.9km az=53.0.
IDC III 29 03 04 40.8–3.7 17.60S 167.92E 0 3.8,3.7b
¶17199019

IDC Error ellipse: s-maj=81.8km s-min=38.4km az=101.0.
ISC III 30 09 17 19.7–1.1 13.85S–.09 167.3E–.40 200 3.7b 9 8-125
ISCJB III 30 09 17 18.5–1.1 13.83S–.08 167.2E–.40 200 3.6b ¶17199186
IDC III 30 09 17 22.3–4.7 13.87S 167.28E 225–50 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.9km s-min=10.7km az=2.9.
IDC Error ellipse: s-maj=60.4km s-min=29.0km az=122.0.
IDC III 31 04 52 48.0–1.8 14.62S 166.01E 0 4.1,4.1L
¶17199253

IDC Error ellipse: s-maj=48.6km s-min=30.7km az=125.0.
IDC III 31 22 27 16.2–11 14.16S 166.77E 66–11 3.9,3.8
¶17199359

IDC Error ellipse: s-maj=184.0km s-min=26.3km az=67.0.
ISC IV 01 06 43 43.1–.89 19.9S–.10 168.2E–.20 25 3.9b 15 3-147
IDC IV 01 06 43 39.2–1.1 19.78S 168.26E 0 4.1,3.9 ¶16485456
NEIC IV 01 06 43 40.8–.67 19.83S 168.27E 10 4.5b,3.9
ISCJB IV 01 06 43 41.5–.81 19.85S–.10 168.2E–.10 25 4.0b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 01 08 10 24.0–.96 20.0S–.20 168.1E–.20 27 3.8b,3.5s 12 3-145
IDC IV 01 08 10 20.2–1.4 19.92S 168.07E 0 4.0,3.8 ¶16485459
NEIC IV 01 08 10 21.5–.76 19.97S 168.11E 10 4.5b,3.8
ISCJB IV 01 08 10 22.5–.89 19.9S–.10 168.0E–.20 27 4.0b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 01 19 44 11.8–.54 15.25S–.06 167.47E–.10 129 4.9b 74 7-166
ISCJB IV 01 19 44 10.6–.33 15.28S–.04 167.42E–.06 129 4.7b ¶16532000
IDC IV 01 19 44 11.1–2.7 15.22S 167.51E 120–23 4.3,4.1
NEIC IV 01 19 44 12.3–1.3 15.26S 167.44E 131–11 5.0b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.7km az=158.3.
IDC Error ellipse: s-maj=22.9km s-min=12.9km az=71.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.1km az=61.0.
ISC IV 02 21 29 30.5–.67 18.04S–.09 168.37E–.09 69 3.9b 16 4-166
ISCJB IV 02 21 29 28.7–.58 18.07S–.07 168.39E–.09 69 4.0b ¶16487700
NEIC IV 02 21 29 29.6–.69 17.97S 168.35E 54–7 4.2b
IDC IV 02 21 29 29.3–6.7 18.03S 168.36E 51–63 4.2L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=8.2km az=32.7.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.0km az=154.0.
IDC Error ellipse: s-maj=54.0km s-min=35.4km az=145.0.
ISC IV 03 09 20 35.4–1.9 13.2S–.10 167.8E–.20 35 3.6b 9 9-129
IDC IV 03 09 20 38.7–4.4 13.20S 167.58E 60–33 4.3L,4.1 ¶17199638
ISC Event type ke.
IDC Error ellipse: s-maj=39.4km s-min=21.0km az=64.0.
IDC IV 04 07 31 49.9–11 14.47S 167.43E 62–106 4.3L,3.9
¶17199742

IDC Error ellipse: s-maj=112.4km s-min=49.1km az=167.0.
IDC IV 04 15 52 21.0–3.7 13.24S 165.72E 0 4.4L,3.9
¶17199785

IDC Error ellipse: s-maj=78.6km s-min=41.7km az=95.0.
ISC IV 05 22 25 06.5–.88 18.4S–.10 169.0E–.20 201 4.0b 15 4-167
ISCJB IV 05 22 25 05.5–.75 18.31S–.09 168.9E–.10 201 3.9b ¶17199934
IDC IV 05 22 25 07.7–2.9 18.47S 168.93E 210–27 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=11.1km az=21.7.
IDC Error ellipse: s-maj=19.8km s-min=17.6km az=56.0.
ISC IV 07 23 20 49.7–.66 13.8S–.20 166.7E–.10 43 4.5b 17 29-119
IDC IV 07 23 20 44.0–2.7 13.77S 166.61E 0 4.1,4.0 ¶16525091
ISCJB IV 07 23 20 48.0–.54 13.8S–.10 166.60E–.10 43 4.6b,4.0
NEIC IV 07 23 20 48.9–.35 13.80S 166.66E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=111.3km s-min=43.9km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=19.9km s-min=12.6km az=158.1.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.6km az=158.0.
ISC IV 08 12 38 00.9–.39 14.23S–.07 166.55E–.06 43 4.6b,4.2s 82 8-165
ISCJB IV 08 12 37 58.8–.38 14.23S–.05 166.54E–.06 43 4.7b,4.1s ¶16414572
BJI IV 08 12 37 59.8 13.75S 166.27E 11 5.2b,5.0s
NEIC IV 08 12 38 02.1–1.2 14.19S 166.58E 63–11 4.8b,5.0s
IDC IV 08 12 38 03.2–3.7 14.32S 166.61E 72–32 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.1km az=157.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.6km az=207.0.
IDC Error ellipse: s-maj=20.0km s-min=17.6km az=80.0.
IDC IV 09 09 41 11.6–14 14.24S 166.14E 0 3.8,3.6
¶17200321

IDC Error ellipse: s-maj=245.4km s-min=38.2km az=58.0.
ISC IV 09 22 40 52.4–.86 13.4S–.30 167.7E–.20 35 4.1b 13 12-150
IDC IV 09 22 40 46.8–2.0 13.36S 167.71E 0 4.2,4.0 ¶16525095
NEIC IV 09 22 40 49.0–.57 13.29S 167.60E 10 4.5b,4.0
ISCJB IV 09 22 40 50.2–.84 13.5S–.20 167.7E–.20 33 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 10 18 02 55.4–3.5 15.14S 167.00E 139–27 3.8,3.4
¶17200486

IDC Error ellipse: s-maj=45.6km s-min=22.8km az=79.0.
IDC IV 12 13 06 00.9–5.1 16.79S 168.47E 230–54 3.6,3.2
¶17200777

IDC Error ellipse: s-maj=67.5km s-min=37.2km az=147.0.
IDC IV 13 03 40 52.0–14 17.55S 167.56E 0 4.1,4.0
¶17200849

IDC Error ellipse: s-maj=239.3km s-min=40.1km az=73.0.
IDC IV 13 04 09 29.9–8.8 14.86S 167.03E 298–111 3.7,3.2
¶17200853

IDC Error ellipse: s-maj=104.0km s-min=32.2km az=159.0.
ISC IV 14 10 06 27.1–1.1 15.0S–.20 168.0E–.30 36 4.1b 7 7-98
IDC IV 14 10 06 21.8–1.4 14.87S 167.92E 0 4.3,4.1b ¶17201007
ISCJB IV 14 10 06 25.4–1.1 15.1S–.10 167.9E–.20 36 4.0b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 14 10 17 21.4–7.0 20.17S 169.46E 55–57 4.0,3.9
¶17201009

IDC Error ellipse: s-maj=89.0km s-min=44.2km az=147.0.
ISC IV 14 20 38 44.1–2.9 19.6S–.50 170.0E–.50 35 3.7b,3.5s 7 4-90
IDC IV 14 20 38 38.5–3.4 19.45S 170.09E 0 4.0,3.8 ¶17201060
ISCJB IV 14 20 38 42.7–2.6 19.6S–.40 169.9E–.50 33 3.8b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 15 12 54 56.6–5.8 19.27S 168.08E 0 4.4L,4.1
¶17201134

IDC Error ellipse: s-maj=116.3km s-min=35.1km az=100.0.
IDC IV 16 03 04 56.9–18 18.49S 169.34E 220–55 4.2,4.1
¶17201188

IDC Error ellipse: s-maj=258.4km s-min=77.9km az=69.0.
IDC IV 17 02 43 03.4–11 18.68S 168.74E 0 3.9,3.8
¶17201274

IDC Error ellipse: s-maj=206.9km s-min=44.8km az=92.0.
ISC IV 17 14 14 23.0–1.5 17.8S–.10 168.0E–.20 27 3.9b 10 5-100
IDC IV 17 14 14 19.7–3.0 17.60S 167.89E 0 4.0,3.9 ¶16529597
ISCJB IV 17 14 14 22.6–1.4 17.79S–.08 167.8E–.20 27 3.8b,3.9
NEIC IV 17 14 14 24.6–4.2 17.79S 168.01E 39–32 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=69.1km s-min=33.9km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=33.0km s-min=11.5km az=3.3.
NEIC Event type se. Error ellipse: s-maj=37.9km s-min=23.8km az=45.0.
ISC IV 18 02 56 36.1–.47 17.49S–.06 168.0E–.10 27 4.7b,4.0s 117 5-166
IDC IV 18 02 56 32.1–.68 17.42S 167.98E 0 4.7,4.5 ¶16450746
ISCJB IV 18 02 56 34.7–.42 17.42S–.06 167.88E–.09 27 4.7b,4.0s
NEIC IV 18 02 56 37.5–.29 17.45S 167.93E 35 4.8b,4.0s
MOS IV 18 02 56 39.2–1.1 17.34S 167.68E 54 4.9b,4.0s
BJI IV 18 02 56 41.0 17.30S 167.70E 60 4.9b,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=22.2km s-min=16.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.9km az=4.5.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.6km az=105.0. Felt at Port-Vila.
MOS Error ellipse: s-maj=11.8km s-min=9.1km az=43.8.
IDC IV 18 10 19 09.3–8.7 15.52S 167.91E 136–65 4.1,3.8
¶17201407

IDC Error ellipse: s-maj=69.6km s-min=42.1km az=22.0.
IDC IV 19 01 53 17.1–63 13.30S 168.59E 0 4.0,3.8
¶17201460

IDC Error ellipse: s-maj=1078.0km s-min=117.6km az=64.0.
ISC IV 19 11 52 39.9–1.6 14.2S–.10 166.7E–.20 43 3.9b 8 8-86
IDC IV 19 11 52 34.1–1.9 14.01S 166.53E 0 4.2,3.9 ¶16631140
ISCJB IV 19 11 52 38.3–1.5 14.28S–.09 166.6E–.20 43 4.0b,3.9
NEIC IV 19 11 52 39.1–1.2 14.16S 166.61E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=50.2km s-min=31.0km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=28.3km s-min=12.1km az=168.0.
NEIC Event type se. Error ellipse: s-maj=24.1km s-min=18.6km az=85.0.
ISC IV 19 12 01 17.5–.81 20.8S–.30 169.1E–.10 25 3.8s,3.8b 12 3-149
IDC IV 19 12 01 13.0–2.8 20.81S 169.28E 0 4.0,3.9b ¶16462847
NEIC IV 19 12 01 18.2–.61 20.89S 169.22E 35 4.2b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=119.5km s-min=26.2km az=144.0.
NEIC Event type se. Error ellipse: s-maj=33.5km s-min=9.4km az=154.0.
ISC IV 19 20 22 47.9–2.3 19.2S–.20 168.9E–.40 147 3.8b 7 4-148
IDC IV 19 20 22 45.8–7.0 18.97S 168.76E 121–67 4.1,4.0 ¶17201540
ISC Event type ke.
IDC Error ellipse: s-maj=83.1km s-min=41.4km az=164.0.
IDC IV 19 21 39 45.6–9.6 14.85S 167.16E 138–87 3.6,3.3
¶17201545

IDC Error ellipse: s-maj=76.8km s-min=46.7km az=169.0.
IDC IV 21 20 40 06.8–5.2 15.75S 167.95E 218–54 3.8,3.4
¶17201741

IDC Error ellipse: s-maj=55.3km s-min=42.4km az=136.0.
IDC IV 21 23 01 03.0–10 13.88S 167.75E 175–88 4.1,3.8
¶17201758

IDC Error ellipse: s-maj=145.5km s-min=72.4km az=81.0.
IDC IV 22 10 08 08.7–48 13.41S 166.90E 0 4.4,4.2
¶17201804

IDC Error ellipse: s-maj=816.1km s-min=104.7km az=64.0.
ISC IV 22 14 55 51.0–.67 18.61S–.08 169.2E–.10 201 3.7b 23 4-144
ISCJB IV 22 14 55 49.7–.55 18.62S–.07 169.1E–.10 201 3.8b ¶17201821
IDC IV 22 14 55 53.5–2.4 18.61S 169.05E 225–23 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=9.3km az=11.8.
IDC Error ellipse: s-maj=18.0km s-min=13.9km az=61.0.
ISC IV 23 16 06 42.9–.78 14.48S–.09 167.0E–.20 67 3.8b 17 8-151
IDC IV 23 16 06 34.4–.98 14.35S 166.98E 0 4.4L,4.1 ¶17201888
ISCJB IV 23 16 06 41.2–.72 14.50S–.06 166.9E–.10 67 3.7b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC IV 23 20 15 30.5–2.1 19.88S 169.29E 0 4.2,3.9
¶17201904

IDC Error ellipse: s-maj=96.2km s-min=28.3km az=149.0.
ISC IV 23 20 26 41.1–.63 14.46S–.08 166.9E–.10 67 3.9b 28 8-125
NEIC IV 23 20 26 38.7–1.9 14.37S 166.84E 41–16 4.2b ¶16631199
IDC IV 23 20 26 39.3–3.2 14.47S 166.87E 47–29 4.3L,3.9
ISCJB IV 23 20 26 40.0–.57 14.48S–.06 166.7E–.10 67 3.8b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 23 20 36 28.2–.44 14.26S–.07 166.55E–.08 35 4.2b,4.0s 47 8-153
IDC IV 23 20 36 22.1–.76 14.23S 166.75E 0 4.2,4.1 ¶16631200
ISCJB IV 23 20 36 26.2–.34 14.32S–.05 166.49E–.06 35 4.2b,4.0s
NEIC IV 23 20 36 30.5–1.2 14.32S 166.57E 63–11 4.4b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=26.2km s-min=16.8km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=7.1km az=176.6.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.6km az=118.0.
ISC IV 23 20 39 01.1–.66 14.32S–.07 166.9E–.10 35 4.0b,3.7s 33 8-125
ISCJB IV 23 20 38 59.5–.52 14.39S–.05 166.75E–.08 35 4.1b,3.7s ¶16631201
NEIC IV 23 20 39 00.6–3.4 14.31S 166.80E 31–23 4.5b,3.7s
IDC IV 23 20 39 01.0–6.7 14.30S 166.84E 33–49 4.4L,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.7km az=164.3.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.9km az=79.0.
IDC Error ellipse: s-maj=28.0km s-min=18.7km az=87.0.
IDC IV 24 18 06 40.5–5.0 20.41S 169.19E 0 3.5,3.4
¶17201975

IDC Error ellipse: s-maj=172.8km s-min=42.7km az=139.0.
IDC IV 24 18 10 50.8–17 15.73S 165.30E 0 3.9L,3.7
¶17201976

IDC Error ellipse: s-maj=304.3km s-min=43.7km az=48.0.
ISC IV 24 21 16 41.8–.69 18.34S–.08 168.3E–.10 37 4.0b 26 4-146
IDC IV 24 21 16 36.7–.95 18.28S 168.40E 0 4.3,4.1L ¶16649307
ISCJB IV 24 21 16 41.3–.56 18.34S–.07 168.08E–.09 37 4.0b,4.1L
NEIC IV 24 21 16 44.5–1.1 18.33S 168.10E 55–11 4.7b,4.1L

ISC Event type se.
IDC Error ellipse: s-maj=31.0km s-min=20.0km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=8.7km az=23.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=11.3km az=169.0.
ISC IV 29 08 43 15.1–.97 19.5S–.20 168.1E–.20 26 4.2b 10 3-101
IDC IV 29 08 43 11.4–1.1 19.36S 168.06E 0 4.6,4.3 **¶17202366**
ISCJB IV 29 08 43 13.7–.88 19.4S–.10 168.0E–.20 26 4.2b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 29 12 00 51.9–75 13.88S 167.52E 0 3.7,3.5b
¶17202375

IDC Error ellipse: s-maj=1263.0km s-min=123.5km az=64.0.
ISC IV 29 12 01 17.4–1.5 14.3S–.30 166.7E–.30 28 4.0b 13 29-130
IDC IV 29 12 01 12.8–1.4 14.27S 166.72E 0 4.2,4.1b **¶17202378**
ISCJB IV 29 12 01 16.2–1.6 14.2S–.30 166.5E–.30 28 4.3s,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 29 12 15 14.5–4.6 19.34S 168.05E 0 4.2,4.1
¶17202381

IDC Error ellipse: s-maj=84.5km s-min=50.9km az=95.0.
ISC IV 29 18 14 54.4–1.2 19.5S–.20 168.0E–.20 20 3.9b 9 3-144
IDC IV 29 18 14 51.3–1.5 19.21S 167.93E 0 4.1,3.9b **¶17202402**
ISCJB IV 29 18 14 53.0–1.1 19.4S–.10 167.9E–.20 20 3.8b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 12 20 58.0–.57 17.98S–.07 168.06E–.09 32 4.6b,3.5s 42 4-124
ISCJB IV 30 12 20 56.3–.44 17.87S–.06 168.04E–.06 32 4.5b,3.5s **¶16485922**
IDC IV 30 12 20 59.2–3.6 18.09S 168.18E 42–30 4.7L,4.5
NEIC IV 30 12 21 01.5–1.3 17.96S 168.07E 65–13 4.6b,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=7.7km az=135.8.
IDC Error ellipse: s-maj=24.6km s-min=18.8km az=73.0.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=9.1km az=213.0. Felt at Port-Vila.
ISC V 01 22 59 33.1–1.5 13.5S–.10 166.7E–.30 43 3.7b 9 9-119
IDC V 01 22 59 38.2–8.5 13.78S 166.72E 96–83 3.8,3.6b **¶17202568**
ISC Event type ke.
IDC Error ellipse: s-maj=60.7km s-min=39.9km az=165.0.
ISC V 02 00 44 33.3–.28 14.40S–.05 167.13E–.05 250 4.7b 215 8-154
IDC V 02 00 44 24.5–1.7 14.32S 167.47E 174–12 4.6,4.3 **¶16577949**
ISCJB V 02 00 44 31.4–.22 14.38S–.04 167.11E–.04 250 4.7b,4.3
BJI V 02 00 44 33.3 14.40S 167.10E 277 4.9b,4.7b
NEIC V 02 00 44 34.5–.77 14.42S 167.13E 267–8 5.0b,4.7b
MOS V 02 00 44 35.6–1.8 14.37S 167.11E 280 4.9b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=12.7km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.4km az=23.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=161.0.
MOS Error ellipse: s-maj=10.6km s-min=8.7km az=33.0.
ISC V 02 14 45 03.3–.72 19.23S–.09 168.3E–.20 35 4.2b,3.8s 24 3-144
IDC V 02 14 44 57.9–.89 19.19S 168.38E 0 4.3,4.1L **¶16577957**
NEIC V 02 14 44 59.1–.53 19.17S 168.37E 10 4.5b,4.1L
ISCJB V 02 14 45 01.1–.61 19.25S–.07 168.3E–.10 33 4.2b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 03 12 54 26.6–13 15.66S 165.97E 0 4.4,4.3
¶17202675

IDC Error ellipse: s-maj=227.2km s-min=35.8km az=57.0.
ISC V 03 19 43 38.7–1.1 14.31S–.10 167.3E–.20 170 4.0b 10 8-120
ISCJB V 03 19 43 38.3–1.1 14.28S–.08 167.1E–.20 170 3.9b **¶17202709**
IDC V 03 19 43 43.4–5.7 14.62S 167.38E 219–59 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.0km s-min=10.8km az=179.2.
IDC Error ellipse: s-maj=53.7km s-min=28.1km az=155.0.
ISC V 03 22 27 45.4–.53 19.47S–.10 168.8E–.10 104 4.5b 77 3-148
NEIC V 03 22 27 34.5–.33 19.17S 168.87E 10 4.9b **¶16493775**
IDC V 03 22 27 41.5–3.8 19.31S 168.93E 65–36 4.4,4.4L
ISCJB V 03 22 27 44.3–.31 19.44S–.07 168.76E–.08 104 4.6b,4.4L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 04 10 07 00.9–.33 15.30S–.04 167.66E–.04 171–2 4.9b 475 7-169
BJI V 04 10 07 00.8 14.86S 167.59E 165 4.9b,4.9b **¶16577981**
IDC V 04 10 07 01.2–.43 15.34S 167.60E 173–3 5.0,4.6
MOS V 04 10 07 01.4–1.2 15.28S 167.60E 182 4.8b,4.6
ISCJB V 04 10 07 01.6–.88 15.32S–.03 167.61E–.03 189–8 4.9b,4.6
NEIC V 04 10 07 02.1–.53 15.29S 167.64E 182–4 5.1b,4.6
GCMT V 04 10 07 02.2–.20 15.25S 167.57E 177–2 5.1W,4.6
ISC Event type se.
IDC Error ellipse: s-maj=8.3km s-min=8.0km az=140.0.
MOS Error ellipse: s-maj=8.7km s-min=7.3km az=32.5.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.5km az=5.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.4km az=187.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c54; s94,c142; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.61±.13 $M_{\theta\theta}$4.97±.17; $M_{\phi\phi}$-0.35±.16; $M_{r\theta}$1.15±.15; $M_{\theta\phi}$1.74±.17; $M_{\phi r}$1.38±.14; Best double couple: NP1:ϕ_s241.00000°,δ55.00000° ,λ-106.00000°. NP2:ϕ_s87.00000°,δ38.00000°,λ-69.00000°. Principal axes: T 5.7080,Plg8.0000°,Azm342.0000°; N -0.6460,Plg13.0000°,Azm250.0000° ; P -5.0590,Plg75.0000°,Azm104.0000° M_o5.38300×10^{16}
IDC V 05 09 34 30.2–13 15.37S 165.21E 0 3.9,3.8
¶17202834

IDC Error ellipse: s-maj=226.3km s-min=35.5km az=52.0.
IDC V 06 00 05 23.5–8.8 18.51S 170.99E 230–51 4.1,3.6
¶17202883

IDC Error ellipse: s-maj=108.2km s-min=77.9km az=125.0.
ISC V 06 07 17 05.5–.60 14.62S–.07 166.7E–.10 28 4.3b 25 7-151
IDC V 06 07 17 01.1–.97 14.59S 166.77E 0 4.2,4.1 **¶16578028**
NEIC V 06 07 17 02.6–.41 14.58S 166.79E 10 4.7b,4.1
ISCJB V 06 07 17 03.4–.46 14.66S–.05 166.7E–.10 28 4.2b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 07 07 33 14.8–2.0 18.78S 167.30E 0 3.9,3.7
¶17202976

IDC Error ellipse: s-maj=52.7km s-min=33.8km az=127.0.
ISC V 07 23 31 29.3–.81 19.48S–.10 168.0E–.10 26 4.5b 15 3-101
IDC V 07 23 31 25.9–1.9 19.38S 167.96E 0 4.3,4.1 **¶16578053**
ISCJB V 07 23 31 27.7–.62 19.43S–.08 168.0E–.10 26 4.5b,3.2s
NEIC V 07 23 31 28.9–2.4 19.46S 168.03E 22–18 4.6b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=63.1km s-min=29.2km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=16.6km s-min=8.1km az=31.7.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.0km az=134.0.
ISC V 08 17 33 12.2–.50 13.62S–.05 167.26E–.05 204–4 4.6b 292 8-170
MOS V 08 17 33 11.2–1.2 13.63S 167.15E 200 4.7b **¶16560933**
NEIC V 08 17 33 11.4–.17 13.65S 167.21E 198 4.6b
IDC V 08 17 33 11.3–.67 13.76S 167.29E 194–5 4.7,4.3
ISCJB V 08 17 33 12.3–1.1 13.73S–.05 167.24E–.04 219–10 4.5b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 09 22 02 20.6–.50 19.19S–.05 169.01E–.05 141–4 4.8b 202 4-166
MOS V 09 22 02 19.4–1.1 19.29S 169.01E 140 4.9b **¶16503268**
ISCJB V 09 22 02 20.3–.98 19.16S–.04 168.94E–.04 147–9 4.7b
IDC V 09 22 02 20.5–.75 19.16S 168.98E 136–6 4.5,4.3
NEIC V 09 22 02 21.3–.85 19.15S 169.00E 146–7 4.9b,4.3
ISC Event type se.
MOS Error ellipse: s-maj=12.2km s-min=9.2km az=164.6.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.2km az=7.0.
IDC Error ellipse: s-maj=14.2km s-min=9.9km az=134.0.

NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.6km az=192.0.
IDC V 10 09 21 25.6–36 19.89S 168.12E 0 4.1,3.9
¶16709358

IDC Error ellipse: s-maj=608.1km s-min=64.6km az=85.0.
IDC V 10 09 21 43.4–2.2 19.36S 168.49E 0 4.5,4.2
¶17203204

IDC Error ellipse: s-maj=118.4km s-min=34.5km az=154.0.
IDC V 10 10 02 14.5–1.9 19.69S 168.08E 0 5.0s,5.0
¶17203219

IDC Error ellipse: s-maj=116.8km s-min=30.2km az=154.0.
IDC V 10 10 10 53.7–39 19.76S 169.08E 0 4.3,4.1
¶17203229

IDC Error ellipse: s-maj=666.9km s-min=107.5km az=79.0.
IDC V 10 10 39 28.9–2.8 17.95S 167.08E 0 4.3,4.0
¶17203236

IDC Error ellipse: s-maj=224.9km s-min=31.9km az=158.0.
IDC V 10 11 22 57.1–17 18.97S 170.56E 0 4.2,4.0
¶17203244

IDC Error ellipse: s-maj=284.1km s-min=103.8km az=63.0.
IDC V 10 12 29 52.3–6.1 20.24S 169.33E 0 4.1,3.9
¶17203257

IDC Error ellipse: s-maj=114.3km s-min=57.8km az=120.0.
IDC V 11 01 35 21.4–4.4 19.51S 168.20E 36–9 3.9s,3.9
¶17203340

IDC Error ellipse: s-maj=92.8km s-min=69.4km az=136.0.
ISC V 11 03 09 12.9–1.0 14.6S–.20 167.4E–.20 170 3.9b 9 7-120
IDC V 11 03 09 03.8–5.1 14.58S 167.53E 89–45 4.0,3.9 **¶17203346**
ISCJB V 11 03 09 11.5–.97 14.7S–.20 167.4E–.20 170 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 03 38 00.4–4.2 19.65S 168.39E 0 4.1,4.0b
¶17203350

IDC Error ellipse: s-maj=87.4km s-min=53.2km az=116.0.
IDC V 11 04 25 10.7–3.9 19.88S 168.59E 0 4.4,4.2b
¶17203352

IDC Error ellipse: s-maj=93.6km s-min=51.0km az=129.0.
IDC V 11 09 55 51.8–7.0 20.27S 169.16E 0 3.8,3.7
¶17203379

IDC Error ellipse: s-maj=149.4km s-min=56.9km az=121.0.
ISC V 12 06 40 20.1–1.2 18.7S–.30 169.3E–.30 240 4.3b 9 4-125
ISCJB V 12 06 40 19.2–1.2 18.7S–.20 169.2E–.20 240 4.2b **¶17203460**
IDC V 12 06 40 20.2–3.4 18.69S 169.27E 239–37 4.3,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.1km s-min=18.0km az=138.3.
IDC Error ellipse: s-maj=66.1km s-min=20.7km az=158.0.
IDC V 13 08 00 19.7–1.5 14.58S 165.31E 0 4.3,4.3L
¶17203532

IDC Error ellipse: s-maj=35.5km s-min=28.6km az=139.0.
ISC V 13 23 43 33.1–.52 17.84S–.07 166.99E–.10 20 4.3b 32 4-165
IDC V 13 23 43 30.1–.71 17.72S 167.14E 0 4.5,4.3 **¶16577298**
ISCJB V 13 23 43 31.4–.48 17.78S–.07 167.02E–.08 20 4.3b,4.3
NEIC V 13 23 43 33.8–3.0 17.77S 167.03E 22–21 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=19.0km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=10.5km az=154.2.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=11.0km az=200.0.
IDC V 15 08 05 46.0–6.8 20.88S 170.32E 89–51 3.5L,3.2
¶17203678

IDC Error ellipse: s-maj=218.0km s-min=46.7km az=159.0.
ISC V 16 17 28 39.9–.94 18.4S–.20 169.3E–.20 201 4.3b 21 4-144
ISCJB V 16 17 28 39.3–.72 18.3S–.10 169.1E–.10 201 4.2b **¶16710031**
IDC V 16 17 28 43.7–2.0 18.69S 169.24E 244–21 4.5,4.1
NEIC V 16 17 28 43.6–1.7 18.73S 169.28E 246–17 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=9.0km az=35.3.
IDC Error ellipse: s-maj=27.4km s-min=16.5km az=152.0.
NEIC Event type se. Error ellipse: s-maj=26.8km s-min=13.7km az=156.0.
ISC V 17 16 28 41.5–1.1 14.5S–.20 170.0E–.20 614 3.6b 14 8-99
ISCJB V 17 16 28 40.3–1.0 14.4S–.20 170.0E–.20 614 3.7b **¶17203827**
IDC V 17 16 28 41.7–1.7 14.50S 169.95E 615–19 4.1,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.4km s-min=14.2km az=31.1.
IDC Error ellipse: s-maj=34.3km s-min=13.7km az=131.0.
ISC V 17 18 56 09.4–1.8 18.9S–.30 169.9E–.30 35 4.6b 13 29-89
IDC V 17 18 56 02.3–37 19.05S 170.15E 0 4.2,4.0 **¶16710122**
ISCJB V 17 18 56 07.5–1.6 18.9S–.30 169.8E–.20 33 4.7b,4.0
NEIC V 17 18 56 09.4–1.1 18.90S 169.82E 35 4.9b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=639.2km s-min=109.9km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=48.0km s-min=22.4km az=143.5.
NEIC Event type se. Error ellipse: s-maj=33.0km s-min=15.3km az=144.0.
ISC V 19 09 15 51.3–1.1 14.83S–.09 168.0E–.20 36 4.0b 10 7-98
IDC V 19 09 15 45.8–1.2 14.81S 167.95E 0 4.2,4.1 **¶17203953**
ISCJB V 19 09 15 49.7–.94 14.89S–.07 167.9E–.20 36 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC V 19 11 05 09.8–8.4 14.69S 167.35E 137–57 4.1,3.8
¶17203965

IDC Error ellipse: s-maj=71.3km s-min=30.6km az=36.0.
IDC V 20 07 57 44.1–36 19.43S 169.68E 0 4.1,3.9
¶17204022

IDC Error ellipse: s-maj=626.0km s-min=104.8km az=79.0.
IDC V 20 09 33 08.7–58 20.04S 169.70E 0 4.2,4.0
¶17204027

IDC Error ellipse: s-maj=989.1km s-min=112.5km az=76.0.
IDC V 20 10 48 27.6–65 19.65S 169.80E 0 4.2,4.1b
¶17204031

IDC Error ellipse: s-maj=1104.0km s-min=119.1km az=76.0.
ISC V 20 12 17 43.3–.74 18.8S–.20 169.4E–.10 246 4.3b 17 4-147
ISCJB V 20 12 17 41.9–.68 18.7S–.10 169.35E–.10 246 4.3b **¶16710391**
NEIC V 20 12 17 42.0–1.0 18.63S 169.33E 231–11 4.3b
IDC V 20 12 17 42.5–12 18.63S 169.29E 233–110 4.4,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=11.8km az=160.6.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=8.8km az=158.0.
IDC Error ellipse: s-maj=45.5km s-min=21.1km az=79.0.
ISC V 22 20 58 50.4–.31 20.54S–.05 169.12E–.06 31 4.8b,4.6s 313 3-160
BJI V 22 20 58 46.4 20.40S 169.10E 10 5.1b,5.0s **¶16560129**
NEIC V 22 20 58 47.0–.25 20.41S 168.93E 10 5.1b,5.0s
GCMT V 22 20 58 47.0–.20 20.39S 168.86E 29–0 5.2W,5.0s
ISCJB V 22 20 58 49.1–.19 20.48S–.04 168.99E–.04 31 4.7b,4.6s
MOS V 22 20 58 50.2–1.2 20.50S 168.99E 42 5.0b,4.5s
IDC V 22 20 58 52.7–3.6 20.42S 168.94E 51–32 4.7L,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.9km az=100.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c121; s105,c176; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.19±.02 $M_{\theta\theta}$-0.61±.01; $M_{\phi\phi}$0.41±.01; $M_{r\theta}$0.41±.03; $M_{\theta\phi}$-0.55±.01; $M_{\phi r}$-0.25±.02; Best double couple: NP1:ϕ_s108.00000°,δ80.00000° ,λ146.00000°. NP2:ϕ_s205.00000°,δ57.00000°,λ12.00000°. Principal axes: T 0.8880,Plg31.0000°,Azm61.0000°; N 0.0310,Plg55.0000°,Azm273.0000° ; P -0.9200,Plg15.0000°,Azm160.0000° M_o0.90400×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=32.6.
MOS Error ellipse: s-maj=11.4km s-min=9.5km az=119.2.
IDC Error ellipse: s-maj=15.3km s-min=14.2km az=93.0.
ISC V 23 01 09 46.8–.78 17.9S–.20 167.5E–.20 23 4.1b,3.3s 16 11-145
IDC V 23 01 09 43.3–.81 17.84S 167.51E 0 4.5,4.2b **¶17204267**
ISCJB V 23 01 09 45.2–.76 17.9S–.20 167.5E–.10 23 4.1b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC V 23 13 09 43.8–1.8 18.47S 168.34E 0 4.2,3.9b

¶17204302
IDC Error ellipse: s-maj=102.7km s-min=23.1km az=150.0.
ISC V 23 15 33 18.1–1.7 15.1S–.40 168.2E–.30 36 3.8b 9 10-98
IDC V 23 15 33 25.0–8.7 15.17S 168.04E 96–65 4.6L,4.0 ¶17204305
ISC Event type ke.
IDC Error ellipse: s-maj=77.4km s-min=24.4km az=125.0.
IDC V 24 15 39 05.6–5.6 19.48S 169.24E 0 4.1,4.0
¶17204389
IDC Error ellipse: s-maj=104.3km s-min=93.0km az=10.0.
IDC V 24 21 45 28.2–11 17.12S 168.07E 105–107 4.2,3.9
¶17204408
IDC Error ellipse: s-maj=49.1km s-min=26.6km az=18.0.
ISC V 25 15 17 34.8–.68 14.25S–.10 166.9E–.10 35 4.2b,3.5s 28 8-125
ISCJB V 25 15 17 33.0–.54 14.23S–.07 166.79E–.08 33 4.1b,3.6s ¶16601775
IDC V 25 15 17 38.5–5.5 14.25S 166.71E 64–45 4.8L,4.2
NEIC V 25 15 17 39.0–2.5 14.23S 166.75E 71–20 4.4b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=9.8km az=152.9.
IDC Error ellipse: s-maj=33.7km s-min=17.1km az=98.0.
NEIC Event type se. Error ellipse: s-maj=19.8km s-min=9.9km az=101.0.
ISC V 31 20 14 28.3–.50 19.59S–.08 168.23E–.09 35 4.8b,3.7s 98 3-149
IDC V 31 20 14 24.0–.98 19.34S 168.02E 0 4.4,4.3 ¶16552973
ISCJB V 31 20 14 27.4–.36 19.45S–.07 167.94E–.08 33 4.6b,3.7s
NEIC V 31 20 14 28.9–.36 19.43S 168.03E 35 4.9b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=36.4km s-min=16.5km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=7.2km az=40.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=7.4km az=150.0.
ISC V 31 21 57 30.7–1.2 19.4S–.20 168.0E–.30 20 3.9b 20 3-147
IDC V 31 21 57 28.0–1.8 19.21S 167.92E 0 4.1,3.9 ¶17204846
ISCJB V 31 21 57 29.2–1.5 19.3S–.10 167.9E–.30 20 3.8b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 01 02 30 25.1–.30 18.18S–.05 168.19E–.05 32 4.9b,3.9s 291 4-166
MOS VI 01 02 30 24.9–1.2 18.21S 168.13E 43 5.1b,3.9s ¶16552796
ISCJB VI 01 02 30 24.4–.16 18.14S–.04 168.09E–.03 32 4.8b,3.9s
IDC VI 01 02 30 27.3–2.6 18.20S 168.20E 54–23 5.1L,4.7
BJI VI 01 02 30 27.9 17.83S 168.65E 67 5.0b,5.0s
GCMT VI 01 02 30 27.0–.40 18.32S 168.09E 54–2 4.9W,5.0s
NEIC VI 01 02 30 27.0–1.3 18.17S 168.09E 46–11 5.0b,5.0s
ISC Event type fe.
MOS Error ellipse: s-maj=9.8km s-min=8.3km az=175.1.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.2km az=158.4.
IDC Error ellipse: s-maj=13.8km s-min=12.6km az=40.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c32; s61,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.22±.27 $M_{\theta\theta}$0.05±.20; $M_{\phi\phi}$-2.27±.17; $M_{r\theta}$1.31±.14; $M_{\theta\phi}$1.63±.13; $M_{\phi r}$-0.99±.12; Best double couple: NP1:ϕ_s135.00000°,δ62.00000°,λ69.00000°. NP2:ϕ_s354.00000°,δ34.00000°,λ124.00000°. Principal axes: T 2.8460,Plg66.0000°,Azm7.0000°; N 0.6540,Plg18.0000°,Azm145.0000°; P -3.5000,Plg15.0000°,Azm240.0000° $M_0$3.17300×10^{16}
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.7km az=169.0. Felt [III] at Port-Vila.
ISC VI 01 15 33 47.4–2.0 20.0S–.30 168.5E–.40 25 4.0b 10 3-145
IDC VI 01 15 33 46.1–2.0 19.30S 168.05E 0 3.9,3.9 ¶16637529
NEIC VI 01 15 33 53.5–4.6 19.85S 168.25E 67–52 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=63.3km s-min=28.8km az=131.0.
NEIC Event type se. Error ellipse: s-maj=84.9km s-min=29.7km az=159.0.
ISC VI 01 21 55 25.7–.52 14.78S–.05 167.31E–.06 169–4 4.8b 111 7-166
NEIC VI 01 21 55 24.0–.62 14.70S 167.35E 159–5 5.0b ¶16554279
BJI VI 01 21 55 25.1 14.29S 167.20E 150 4.9b,4.7b
IDC VI 01 21 55 26.0–.69 14.72S 167.25E 174–5 4.5,4.0
ISCJB VI 01 21 55 26.2–1.0 14.81S–.04 167.28E–.06 193–9 4.6b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 02 13 08 19.6–.51 19.54S–.10 169.83E–.09 35 4.4b,4.1s 47 4-148
IDC VI 02 13 08 14.7–.80 19.47S 169.83E 0 4.4,4.4 ¶16554497
BJI VI 02 13 08 16.0 19.60S 169.70E 20 4.8b,4.8b
ISCJB VI 02 13 08 17.6–.44 19.54S–.08 169.83E–.08 33 4.5b,4.1s
NEIC VI 02 13 08 19.6–.47 19.53S 169.77E 35 5.1b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=26.2km s-min=15.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=7.3km az=136.3.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=9.6km az=147.0.
ISC VI 04 00 52 59.5–.35 16.06S–.05 167.60E–.06 39 5.1b,3.6s 155 6-166
ISCJB VI 04 00 52 58.3–.23 15.96S–.04 167.49E–.04 39 5.0b,3.6s ¶16556901
IDC VI 04 00 52 59.8–2.1 16.08S 167.67E 47–16 5.1L,4.6
MOS VI 04 00 53 01.8–1.1 15.95S 167.45E 68 5.1b,4.6
NEIC VI 04 00 53 03.8–.88 15.98S 167.46E 73–8 5.1b,4.6
BJI VI 04 00 53 03.5 16.34S 167.60E 95 4.9b,4.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=166.8.
IDC Error ellipse: s-maj=23.6km s-min=14.5km az=93.0.
MOS Error ellipse: s-maj=11.2km s-min=9.1km az=4.4.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.2km az=218.0.
ISC VI 06 02 49 19.1–1.1 14.7S–.10 168.1E–.20 30 4.1b 10 7-98
IDC VI 06 02 49 14.6–1.2 14.61S 168.02E 0 4.7L,4.3 ¶17205377
ISCJB VI 06 02 49 17.5–.95 14.78S–.07 168.0E–.10 30 4.1b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 06 13 11 04.8–.57 13.10S–.09 167.1E–.10 200 4.0b 32 9-166
ISCJB VI 06 13 11 02.5–.64 13.16S–.08 167.2E–.10 200 3.9b ¶16646376
IDC VI 06 13 11 06.5–2.6 13.17S 167.15E 220–22 4.1s,4.1
NEIC VI 06 13 11 09.4–4.0 13.21S 167.11E 249–35 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=11.2km az=12.3.
IDC Error ellipse: s-maj=21.8km s-min=14.7km az=105.0.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=11.5km az=83.0.
IDC VI 08 13 48 48.4–6.7 14.70S 167.45E 121–35 4.0,3.7
¶17205557
IDC Error ellipse: s-maj=68.4km s-min=26.5km az=42.0.
ISC VI 08 20 02 30.9–1.7 13.8S–.10 167.0E–.30 250 3.6b 9 8-119
ISCJB VI 08 20 02 30.4–2.0 13.7S–.10 166.9E–.30 250 3.5b ¶17205569
IDC VI 08 20 02 30.4–6.5 13.77S 167.01E 243–64 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.0km s-min=12.4km az=166.8.
IDC Error ellipse: s-maj=53.0km s-min=31.9km az=177.0.
IDC VI 09 16 38 40.4–4.1 20.32S 169.23E 0 3.9,3.7
¶17205646
IDC Error ellipse: s-maj=131.3km s-min=41.3km az=135.0.
ISC VI 10 00 42 25.4–.92 18.6S–.20 169.6E–.20 100 3.8b 13 5-144
IDC VI 10 00 42 25.3–5.1 18.78S 169.62E 101–51 3.9,3.9 ¶17205672
ISC Event type ke.
IDC Error ellipse: s-maj=74.8km s-min=24.4km az=158.0.
IDC VI 11 04 10 05.0–13 15.32S 166.13E 0 4.6L,4.3
¶17205752
IDC Error ellipse: s-maj=221.0km s-min=36.8km az=58.0.
IDC VI 11 13 35 40.9–14 17.35S 169.04E 0 4.3L,4.0
¶17205774
IDC Error ellipse: s-maj=229.8km s-min=58.5km az=72.0.
ISC VI 11 18 10 10.8–3.2 14.6S–.20 166.1E–.40 35 3.9b 15 7-51
IDC VI 11 18 10 07.9–13 14.62S 165.80E 0 4.1L,3.9 ¶16856977
NEIC VI 11 18 10 11.8–3.7 14.68S 166.01E 35 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=233.8km s-min=36.6km az=56.0.
NEIC Event type se. Error ellipse: s-maj=71.3km s-min=15.5km az=48.0.
ISC VI 11 21 36 40.8–.75 14.68S–.09 167.4E–.10 150 4.1b 16 7-97
IDC VI 11 21 36 38.4–7.3 14.41S 167.19E 112–75 4.2,3.9 ¶16713625
ISCJB VI 11 21 36 39.9–.57 14.66S–.07 167.3E–.10 150 4.0b,3.9
NEIC VI 11 21 36 39.3–3.0 14.50S 167.36E 130–30 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=73.4km s-min=29.8km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=9.1km az=8.8.
NEIC Event type se. Error ellipse: s-maj=23.8km s-min=10.9km az=174.0.
IDC VI 12 13 25 40.0–13 15.37S 165.81E 0 4.1,4.0b
¶17205825
IDC Error ellipse: s-maj=227.9km s-min=35.6km az=56.0.
ISC VI 13 23 07 57.8–.55 18.57S–.07 169.0E–.10 100 4.6b 64 4-167
ISCJB VI 13 23 07 57.0–.46 18.50S–.05 168.81E–.08 100 4.7b ¶16730433
IDC VI 13 23 07 57.1–3.8 18.50S 168.90E 86–33 4.4,4.2
NEIC VI 13 23 07 58.3–1.8 18.53S 168.92E 104–16 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=7.3km az=8.8.
IDC Error ellipse: s-maj=28.4km s-min=21.7km az=93.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.3km az=46.0.
ISC VI 14 08 23 24.1–.88 15.0S–.10 167.9E–.20 36 3.8b 11 7-98
IDC VI 14 08 23 18.9–1.1 14.79S 167.85E 0 4.1,4.0L ¶17206100
ISCJB VI 14 08 23 22.6–.83 15.05S–.08 167.9E–.20 36 3.8b,4.0L
ISC Event type ke.
ISCJB Event type ke.
IDC VI 14 10 11 31.9–14 14.53S 167.67E 0 3.9,3.7
¶17206108
IDC Error ellipse: s-maj=245.8km s-min=41.4km az=68.0.
ISC VI 15 07 20 28.4–.44 14.93S–.05 167.36E–.06 108–3 4.6b 185 7-166
BJI VI 15 07 20 26.5 14.59S 167.57E 99 4.9b,4.8b ¶16598364
ISCJB VI 15 07 20 27.6–1.4 14.92S–.05 167.32E–.05 114–13 4.7b,4.8b
IDC VI 15 07 20 28.3–.61 14.91S 167.38E 108–4 4.6,4.4
MOS VI 15 07 20 28.1–.98 14.93S 167.30E 117 4.8b,4.4
NEIC VI 15 07 20 29.2–.88 14.91S 167.37E 117–8 4.7b,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.4km az=44.7.
IDC Error ellipse: s-maj=16.2km s-min=10.8km az=99.0.
MOS Error ellipse: s-maj=10.9km s-min=9.3km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=6.0km az=147.0. Felt at Luganville.
IDC VI 18 09 05 09.6–2.0 17.97S 167.29E 0 4.2,4.2L
¶17206450
IDC Error ellipse: s-maj=41.9km s-min=34.9km az=122.0.
IDC VI 18 18 19 15.5–7.5 19.56S 168.96E 188–42 4.1s,4.1
¶17206479
IDC Error ellipse: s-maj=106.7km s-min=70.2km az=122.0.
IDC VI 18 19 14 21.2–10 13.39S 167.10E 263–125 3.6,3.2
¶17206485
IDC Error ellipse: s-maj=129.9km s-min=37.8km az=155.0.
IDC VI 18 19 35 38.9–10 13.87S 167.22E 158–92 3.8,3.5
¶17206486
IDC Error ellipse: s-maj=96.8km s-min=42.3km az=167.0.
IDC VI 20 08 30 51.1–1.8 17.81S 167.75E 0 4.2,4.0
¶17206584
IDC Error ellipse: s-maj=57.8km s-min=27.1km az=126.0.
ISC VI 20 18 13 22.5–.41 13.37S–.04 167.23E–.04 219–3 5.4b 1069 8-170
IDC VI 20 18 13 20.4–.81 13.33S 167.24E 196–6 5.5,5.0 ¶16720956
GCMT VI 20 18 13 21.4–.40 13.38S 166.91E 205–4 5.7W,5.0
BJI VI 20 18 13 21.1 12.96S 167.20E 204 5.4b,5.4b
NEIC VI 20 18 13 21.4–.09 13.29S 167.21E 207 5.4b,5.4b
ISCJB VI 20 18 13 22.2–.74 13.37S–.02 167.17E–.02 227–7 5.3b,5.4b
MOS VI 20 18 13 23.3–1.1 13.21S 167.12E 227 5.7b,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=9.8km s-min=8.0km az=81.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c12; s71,c94; Duration: 1^{8}7 Moment tensor: Scale 10^{17}Nm; M_{rr}1.93±.17 $M_{\theta\theta}$2.04±.22; $M_{\phi\phi}$-3.96±.20; $M_{r\theta}$-0.36±.15; $M_{\theta\phi}$2.33±.18; $M_{\phi r}$-1.25±.14; Best double couple: NP1:ϕ_s200.00000°,δ75.00000°,λ150.00000°. NP2:ϕ_s299.00000°,δ61.00000°,λ17.00000°. Principal axes: T 3.2950,Plg31.0000°,Azm156.0000°; N 1.6410,Plg57.0000°,Azm356.0000°; P -4.9260,Plg9.0000°,Azm252.0000° $M_0$4.11000×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.8km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=150.9.
MOS Error ellipse: s-maj=7.9km s-min=6.2km az=118.2.
IDC VI 22 07 19 16.0–4.6 15.56S 167.75E 188–36 4.2,3.8
¶17206735
IDC Error ellipse: s-maj=36.6km s-min=23.2km az=38.0.
IDC VI 26 10 08 49.0–20 15.11S 165.67E 0 3.8,3.8L
¶17206974
IDC Error ellipse: s-maj=364.6km s-min=45.5km az=50.0.
IDC VI 27 12 15 24.4–8.3 18.55S 168.52E 219–54 3.9,3.5
¶17207071
IDC Error ellipse: s-maj=128.5km s-min=76.2km az=108.0.
IDC VI 28 04 33 30.3–2.0 16.78S 167.28E 0 4.0,3.9L
¶17207113
IDC Error ellipse: s-maj=53.3km s-min=34.4km az=128.0.
IDC VI 30 00 42 32.6–3.1 20.03S 169.71E 304–32 4.3,3.8
¶17207227
IDC Error ellipse: s-maj=110.1km s-min=33.3km az=161.0.

(187) New Caledonia.

IDC I 14 07 12 44.3–60 18.93S 164.51E 0 3.8,3.6
¶17190141
IDC Error ellipse: s-maj=996.7km s-min=100.2km az=72.0.
IDC VI 08 22 38 18.2–3.1 20.90S 164.36E 0 3.9,3.6
¶17205578
IDC Error ellipse: s-maj=119.8km s-min=22.1km az=18.0.

(188) Loyalty Islands.

ISC I 01 12 21 08.5–3.5 20.1S–.30 168.0E–.60 27 3.8b 7 2-87
IDC I 01 12 21 03.0–4.6 20.09S 168.25E 0 4.0,3.8 ¶17189133
ISC Event type ke.
IDC Error ellipse: s-maj=112.9km s-min=29.1km az=116.0.
ISC I 02 03 49 39.7–.64 20.07S–.09 168.3E–.10 25 4.5b,3.5s 41 3-165
IDC I 02 03 49 35.6–1.1 20.04S 168.37E 0 4.6,4.4 ¶15981216
NEIC I 02 03 49 36.7–7.7 20.09S 168.37E 8–46 4.7b,4.4
ISCJB I 02 03 49 38.3–.56 20.03S–.07 168.22E–.09 25 4.5b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 02 09 32 54.1–.49 20.67S–.09 167.31E–.09 35 4.9b,3.9s 88 2-164
IDC I 02 09 32 42.5–.85 20.01S 168.17E 0 4.6,4.5 ¶15902805
MOS I 02 09 32 52.2–3.4 20.19S 167.26E 33 4.9b,4.5
ISCJB I 02 09 32 53.6–.29 20.64S–.07 167.09E–.06 33 4.8b,3.9s
NEIC I 02 09 32 55.6–.31 20.48S 167.11E 35 4.9b,3.9s
BJI I 02 09 32 56.5 20.96S 166.64E 37 5.2s,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=28.6km s-min=17.9km az=134.0.
MOS Error ellipse: s-maj=16.7km s-min=12.4km az=177.8.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=7.7km az=176.6.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.2km az=161.0.
IDC I 02 12 16 21.1–1.9 20.01S 167.11E 0 3.8,3.6
¶17189218
IDC Error ellipse: s-maj=46.6km s-min=25.7km az=108.0.
ISC I 02 21 13 30.7–1.8 20.0S–.20 168.1E–.30 27 3.9b 9 3-145
IDC I 02 21 13 26.5–2.0 19.99S 168.19E 0 4.1,3.9 ¶17189245
ISCJB I 02 21 13 29.1–1.7 20.0S–.20 168.1E–.30 27 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 03 04 09 30.0–1.3 20.2S–.20 168.4E–.20 25 3.8b 10 3-98
IDC I 03 04 09 26.4–1.6 19.99S 168.40E 0 4.2,4.0b ¶17189293
ISCJB I 03 04 09 28.9–1.1 20.1S–.10 168.3E–.20 25 3.9b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC I 04 03 09 39.8–1.5 20.2S–.20 168.0E–.30 27 3.9b,3.3s 8 2-145
IDC I 04 03 09 35.8–1.5 20.08S 167.90E 0 4.2,4.0 ¶17189384
ISCJB I 04 03 09 38.5–1.3 20.2S–.10 168.7E–.20 27 3.9b,3.3s

ISC Event type ke.
ISCJB Event type ke.
ISC I 04 20 11 47.4–.95 20.1S–.10 168.5E–.10 25 4.5b 17 3-145
IDC I 04 20 11 43.5–1.3 19.95S 168.62E 0 4.4,4.3 **¶16017940**
NEIC I 04 20 11 44.8–.94 19.97S 168.65E 10 4.5b,4.3
ISCJB I 04 20 11 45.7–.84 20.10S–.09 168.6E–.10 25 4.4b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 04 21 14 39.5–2.4 20.5S–.40 168.4E–.40 27 3.7b,3.0s 9 2-145
IDC I 04 21 14 36.7–2.2 19.98S 168.10E 0 3.9,3.8b **¶17189455**
ISC Event type ke.
IDC Error ellipse: s-maj=61.5km s-min=25.4km az=128.0.
IDC I 05 12 36 17.3–3.1 20.50S 168.42E 0 4.0,3.8
¶17189505
IDC Error ellipse: s-maj=92.2km s-min=29.6km az=138.0.
ISC I 05 12 37 52.9–1.4 20.2S–.30 168.3E–.30 25 3.7b 3-145
IDC I 05 12 37 49.3–1.7 19.90S 168.26E 0 4.0,3.7 **¶17189506**
ISCJB I 05 12 37 51.7–1.3 20.1S–.20 168.2E–.30 25 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 06 23 52 27.5–.84 20.1S–.10 168.4E–.20 25 4.5b,3.5s 29 3-166
IDC I 06 23 52 23.5–1.2 20.08S 168.48E 0 4.6,4.4 **¶16009328**
NEIC I 06 23 52 25.1–.56 20.11S 168.47E 10 4.6b,4.4
ISCJB I 06 23 52 26.2–.73 20.1S–.10 168.4E–.10 25 4.6b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 07 08 58 55.5–10 20.12S 167.77E 0 3.9,3.8b
¶17189628
IDC Error ellipse: s-maj=186.4km s-min=41.1km az=93.0.
IDC I 11 18 28 52.2–1.8 20.21S 168.26E 0 3.9,3.7
¶17189933
IDC Error ellipse: s-maj=63.9km s-min=28.5km az=146.0.
ISC I 13 16 16 42.7–.39 20.60S–.03 168.59E–.03 15–2 7.0s,6.7b 2592 2-167
ISCJB I 13 16 16 39.5–1.5 20.59S–.02 168.48E–.02 3–9 7.0s,6.6b **¶15925960**
IDC I 13 16 16 40.3–.25 20.70S 168.57E 0 6.7,6.7s
GCMT I 13 16 16 41.5–.00 20.68S 168.34E 17–0 6.9W,6.7s
BJI I 13 16 16 41.4 20.20S 168.56E 9 7.1b,7.1s
NEIC I 13 16 16 41.5–.08 20.63S 168.47E 9 7.1,7.1s
NEIC I 13 16 16 41.0–.00 20.59S 168.55E 15 7.1,7.1s
MOS I 13 16 16 43.7–1.1 20.63S 168.46E 30 7.1s,6.8b
NEIC I 13 16 17 05.3–.00 20.61S 168.04E 23 7.1s,6.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=11.7.
IDC Error ellipse: s-maj=10.2km s-min=8.6km az=5.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c381; s146,c721;Duration: 7s2 Moment tensor: Scale 10^{19} Nm; M_{rr}-2.98±.01 $M_{\theta\theta}$0.45±.01; $M_{\phi\phi}$2.53±.01; $M_{r\theta}$-0.63±.03; $M_{\theta\phi}$-1.27±.01; $M_{\phi r}$0.58±.03; Best double couple: NP1:ϕ_s149.00000°,δ53.00000°,λ-98.00000°. NP2:ϕ_s341.00000°,δ38.00000°,λ-80.00000°. Principal axes: T 3.2330,Plg7.0000°,Azm244.0000° ; N -0.1180,Plg6.0000°,Azm153.0000°; P -3.1160,Plg80.0000°,Azm24.0000° M_o3.17400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=143.0. Felt [II] at Noumea, New Caledonia. Also felt at Bouloupari. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. M_o5.30000×10^{19}
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-2.90 $M_{\theta\theta}$0.11 $M_{\phi\phi}$2.78 $M_{r\theta}$-1.98 $M_{\theta\phi}$-1.17 $M_{\phi r}$0.47 Best double couple: NP1:ϕ_s134.00000°,δ60.00000°,λ-117.00000°. NP2:ϕ_s1.00000°,δ39.00000°,λ-50.00000°. Principal axes: T 3.4500,Plg11.0000°,Azm244.0000°; N 0.4200,Plg24.0000°,Azm149.0000° ; P -3.8800,Plg63.0000°,Azm358.0000° M_o3.70000×10^{19}
MOS Error ellipse: s-maj=6.8km s-min=5.8km az=91.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s19.00000°,δ58.00000°,λ-39.00000°. NP2: ϕ_s133.00000°,δ58.00000°,λ-141.00000°. Principal axes: T Plg0.0000°,Azm76.0000° ; N Plg41.0000°,Azm166.0000°; P Plg49.0000°,Azm346.0000°
NEIC Event type se. Moment Tensor Solution. s152 Moment tensor: Scale 10^{19}Nm; M_{rr}-3.32 $M_{\theta\theta}$0.58 $M_{\phi\phi}$2.74 $M_{r\theta}$-1.99 $M_{\theta\phi}$-1.24 $M_{\phi r}$0.41 Best double couple: NP1:ϕ_s134.00000°,δ59.00000°,λ-113.00000°. NP2:ϕ_s354.00000°,δ38.00000°,λ-57.00000°. Principal axes: T 3.5400,Plg11.0000°,Azm240.0000°; N 0.6200,Plg20.0000°,Azm146.0000° ; P -4.1600,Plg67.0000°,Azm358.0000° M_o3.90000×10^{19}
IDC I 13 16 25 18.0–3.7 20.09S 168.03E 0 4.5,4.3
¶17190059
IDC Error ellipse: s-maj=100.8km s-min=32.1km az=122.0.
ISC I 13 16 30 32.9–.35 20.31S–.07 168.63E–.06 25 5.3b 217 3-166
IDC I 13 16 30 28.6–.55 20.57S 168.49E 0 4.8,4.7 **¶15925963**
ISCJB I 13 16 30 32.3–.20 20.29S–.05 168.59E–.04 25 5.3s,5.2b
NEIC I 13 16 30 32.4–.27 19.78S 168.43E 10 5.4b,5.2b
MOS I 13 16 30 32.8–1.1 20.48S 168.42E 35 4.9b,5.2b
BJI I 13 16 30 35.0 20.22S 169.00E 48 5.4s,5.2
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=16.2km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.5km az=157.9.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.9km az=141.0.
MOS Error ellipse: s-maj=14.6km s-min=13.1km az=35.9.
ISC I 13 16 34 34.2–.49 20.60S–.08 168.33E–.08 28–2 5.2b 113 2-165
ISCJB I 13 16 34 32.9–.32 20.59S–.07 168.28E–.06 28 5.1b **¶16031139**
NEIC I 13 16 34 33.3–.61 20.57S 168.36E 23–4 5.3b
IDC I 13 16 34 34.3–.53 20.62S 168.29E 28–2 4.6,4.6
BJI I 13 16 34 40.9 16.80S 167.90E 12 5.2s,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=5.6km az=146.4.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.5km az=155.0.
IDC Error ellipse: s-maj=16.1km s-min=12.4km az=140.0.
ISC I 13 16 37 28.8–2.0 21.3S–.40 168.5E–.30 30 4.2b 11 2-146
IDC I 13 16 37 25.1–2.2 20.97S 168.51E 0 4.3,4.1 **¶17190061**
ISC Event type ke.
IDC Error ellipse: s-maj=76.6km s-min=20.8km az=145.0.
ISC I 13 16 38 53.5–.41 20.59S–.07 168.50E–.07 26 5.1b 148 2-165
IDC I 13 16 38 49.0–.68 20.71S 168.62E 0 4.6,4.5 **¶15925965**
NEIC I 13 16 38 51.5–.21 20.42S 168.47E 10 5.2b,4.5
MOS I 13 16 38 51.7–1.1 20.52S 168.58E 24 4.9b,4.5
ISCJB I 13 16 38 52.5–.22 20.51S–.05 168.42E–.04 26 5.0s,4.9b
BJI I 13 16 38 56.6 19.58S 167.61E 10 5.2s,4.9
ISC Event type se.
IDC Error ellipse: s-maj=22.5km s-min=15.3km az=157.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.0km az=174.0.
MOS Error ellipse: s-maj=16.7km s-min=13.5km az=2.2.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=156.3.
ISC I 13 16 41 37.5–.60 20.9S–.10 168.7E–.10 30 4.8b 68 2-165
IDC I 13 16 41 33.7–1.2 20.79S 168.71E 0 4.6,4.5 **¶16031140**
NEIC I 13 16 41 34.5–.33 20.85S 168.73E 10 5.2b,4.5
ISCJB I 13 16 41 37.5–.34 20.7S–.10 168.51E–.07 33 4.9b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 16 43 10.8–.22 20.67S–.04 168.47E–.04 30–1 6.3s,5.9b 990 2-166
NEIC I 13 16 43 07.7–.10 20.61S 168.40E 10 5.9b,5.9b **¶15925966**
GCMT I 13 16 43 07.7–.20 20.55S 168.29E 18–1 6.0W,5.9b
BJI I 13 16 43 08.4 19.97S 168.62E 13 6.4s,6.1
MOS I 13 16 43 09.7–1.2 20.59S 168.33E 28 5.8b,6.1
ISCJB I 13 16 43 10.9–.09 20.67S–.02 168.41E–.02 40 6.3s,5.8b
IDC I 13 16 43 12.0–.25 20.64S 168.47E 38–1 5.7s,5.7
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.4km az=121.0. Felt at Noumea, New Caledonia.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s18,c20; s78,c168;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06±.06 $M_{\theta\theta}$0.28±.03; $M_{\phi\phi}$0.77±.04; $M_{r\theta}$0.07±.09; $M_{\theta\phi}$-0.37±.02; $M_{\phi r}$0.07±.07; Best double couple: NP1: ϕ_s157.00000°,δ46.00000°,λ-83.00000°. NP2:ϕ_s327.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 0.9760,Plg1.0000°,Azm242.0000°; N 0.0880,Plg5.0000°,Azm332.0000° ; P -1.0690,Plg85.0000°,Azm142.0000° M_o1.02200×10^{18}
MOS Error ellipse: s-maj=9.3km s-min=8.0km az=108.1.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.5km az=162.6.
IDC Error ellipse: s-maj=9.0km s-min=8.7km az=56.0.
ISC I 13 16 45 10.4–.87 20.6S–.20 168.3E–.20 26 4.8b 44 32-149
ISCJB I 13 16 45 08.4–.99 20.5S–.20 168.2E–.20 26 4.8b **¶17190062**
IDC I 13 16 45 10.7–.79 20.65S 168.34E 31–2 4.8,4.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.0km s-min=16.0km az=150.5.
IDC Error ellipse: s-maj=30.3km s-min=15.6km az=150.0.
ISC I 13 16 52 46.6–.84 21.3S–.20 168.6E–.10 20 4.5b 21 2-149
IDC I 13 16 52 44.1–1.5 21.19S 168.59E 0 4.5,4.3 **¶16031136**
ISCJB I 13 16 52 45.3–.82 21.3S–.20 168.6E–.10 20 4.3b,4.3
NEIC I 13 16 52 45.0–.58 21.33S 168.61E 10 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=59.0km s-min=19.4km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=27.6km s-min=11.2km az=149.4.
NEIC Event type se. Error ellipse: s-maj=23.4km s-min=11.5km az=156.0.
IDC I 13 16 56 42.9–4.9 20.19S 167.17E 0 4.4,4.1
¶16395696
IDC Error ellipse: s-maj=98.7km s-min=38.5km az=87.0.
ISC I 13 16 57 31.4–.36 20.73S–.06 168.48E–.07 26 5.1b 247 2-165
BJI I 13 16 57 26.5 20.80S 168.30E 10 5.5s,5.2 **¶17190063**
IDC I 13 16 57 26.9–.47 20.71S 168.51E 0 4.7,4.6
MOS I 13 16 57 27.5–1.1 20.63S 168.43E 10 5.0b,4.6
NEIC I 13 16 57 29.0–.19 20.59S 168.43E 10 5.2b,4.6
ISCJB I 13 16 57 30.2–.17 20.63S–.04 168.38E–.04 26 5.0s,4.9b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 13 17 02 44.3–2.1 20.90S 168.46E 0 4.3,4.0
¶17190065
IDC Error ellipse: s-maj=85.7km s-min=23.7km az=148.0.
ISC I 13 17 03 46.7–.85 20.8S–.20 168.3E–.20 26 4.3b 17 2-145
IDC I 13 17 03 43.0–.85 20.64S 168.39E 0 4.5,4.4 **¶17190068**
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=17.9km az=140.0.
ISC I 13 17 05 06.8–.93 20.7S–.10 168.3E–.10 26 4.0b 11 2-145
IDC I 13 17 05 03.1–1.2 20.57S 168.40E 0 4.3,4.1L **¶16151256**
NEIC I 13 17 05 04.5–.70 20.55S 168.34E 10 4.5b,4.1L
ISCJB I 13 17 05 05.1–.78 20.6S–.10 168.4E–.10 26 4.0b,4.1L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 06 16.5–.89 20.7S–.20 168.5E–.20 26 4.5b 24 2-147
IDC I 13 17 06 12.8–.92 20.62S 168.55E 0 4.6,4.4b **¶16151257**
NEIC I 13 17 06 13.0–9.6 20.64S 168.53E 3–58 4.6b,4.4b
ISCJB I 13 17 06 15.5–.66 20.6S–.10 168.4E–.10 26 4.4b,4.4b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 09 33.9–.49 20.59S–.08 168.47E–.09 26 4.8b 75 2-165
IDC I 13 17 09 29.8–.59 20.52S 168.48E 0 4.7,4.7 **¶16151258**
NEIC I 13 17 09 31.7–.27 20.40S 168.44E 10 4.9b,4.7
ISCJB I 13 17 09 32.5–.35 20.61S–.07 168.46E–.06 26 4.8b,4.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 15 40.8–1.5 20.3S–.30 168.2E–.30 32 3.9b 7 2-126
IDC I 13 17 15 36.3–2.7 20.11S 168.21E 0 4.3,4.1 **¶16151259**
NEIC I 13 17 15 38.0–1.1 20.06S 168.27E 10 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=152.6km s-min=26.1km az=158.0.
NEIC Event type se. Error ellipse: s-maj=31.0km s-min=11.6km az=133.0.
ISC I 13 17 16 37.8–1.6 21.0S–.40 168.7E–.30 30 4.0b 10 2-165
IDC I 13 17 16 33.5–2.1 20.83S 168.66E 0 4.3,4.0b **¶17190071**
ISCJB I 13 17 16 36.5–1.9 20.9S–.40 168.6E–.30 30 3.9b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 17 18 39.2–1.6 20.8S–.40 168.4E–.30 26 3.9b 9 2-145
IDC I 13 17 18 35.7–2.0 20.49S 168.35E 0 4.3,4.0 **¶17190072**
ISC Event type ke.
IDC Error ellipse: s-maj=78.5km s-min=26.2km az=146.0.
ISC I 13 17 20 26.4–.53 20.58S–.09 168.36E–.09 26 4.8b 108 2-165
IDC I 13 17 20 22.4–.66 20.56S 168.34E 0 4.7,4.7 **¶601996246**
NEIC I 13 17 20 23.9–.30 20.56S 168.33E 10 4.9b,4.7
ISCJB I 13 17 20 25.1–.27 20.53S–.06 168.32E–.05 26 4.7b,4.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 26 08.3–.31 20.71S–.05 168.49E–.06 26 5.2b 301 2-165
IDC I 13 17 26 04.0–.54 20.70S 168.46E 0 4.8,4.8 **¶15925969**
BJI I 13 17 26 04.9 20.19S 168.80E 12 5.6s,5.5
NEIC I 13 17 26 05.9–.13 20.62S 168.42E 10 5.3b,5.5
ISCJB I 13 17 26 07.1–.15 20.65S–.03 168.43E–.03 26 5.2b,5.0s
MOS I 13 17 26 08.2–1.1 20.58S 168.33E 33 5.1b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.4km az=102.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.6km az=143.2.
MOS Error ellipse: s-maj=17.7km s-min=12.6km az=134.3.
ISC I 13 17 30 43.3–1.2 20.9S–.30 168.5E–.20 30 4.3b 21 2-165
IDC I 13 17 30 38.7–1.4 20.79S 168.59E 0 4.5,4.3 **¶16151265**
NEIC I 13 17 30 40.1–.70 20.81S 168.60E 10 4.2b,4.3
ISCJB I 13 17 30 42.1–1.1 20.7S–.20 168.5E–.20 30 4.2b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 36 22.4–1.9 21.2S–.50 168.6E–.30 30 4.0b 11 2-145
IDC I 13 17 36 19.4–1.7 20.64S 168.43E 0 4.3,4.0 **¶16151267**
NEIC I 13 17 36 20.9–1.4 20.67S 168.48E 10 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=65.1km s-min=20.6km az=148.0.
NEIC Event type se. Error ellipse: s-maj=54.5km s-min=18.9km az=147.0.
ISC I 13 17 41 17.2–.88 21.0S–.20 168.3E–.10 30 4.2b 22 2-148
IDC I 13 17 41 12.6–.94 20.88S 168.46E 0 5.1,5.1s **¶16151268**
NEIC I 13 17 41 13.8–.74 20.95S 168.51E 10 4.1b,5.1s
ISCJB I 13 17 41 15.5–.85 20.9S–.10 168.4E–.10 30 5.1s,4.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 46 12.5–1.7 20.6S–.30 168.2E–.30 32 3.9b 7 2-90
IDC I 13 17 46 07.8–1.9 20.42S 168.25E 0 4.1,3.9 **¶17190074**
ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=24.8km az=139.0.
ISC I 13 17 51 02.2–1.4 20.8S–.30 168.6E–.20 26 4.1b 14 2-165
IDC I 13 17 50 58.3–1.6 20.68S 168.63E 0 4.3,4.1 **¶16151271**
NEIC I 13 17 50 59.7–1.0 20.72S 168.63E 10 4.4b,4.1
ISCJB I 13 17 51 01.5–1.4 20.6S–.20 168.4E–.20 26 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 17 57 25.1–.87 20.9S–.10 168.5E–.10 30 4.0b 18 2-165
IDC I 13 17 57 20.6–.94 20.84S 168.58E 0 4.6L,4.3 **¶16151273**
NEIC I 13 17 57 21.9–.63 20.90S 168.59E 10 4.1b,4.3
ISCJB I 13 17 57 23.6–.90 20.8S–.10 168.5E–.10 30 4.0b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 18 02 03.1–1.0 20.9S–.20 168.5E–.20 30 3.9b 10 2-149
IDC I 13 18 01 58.4–1.1 20.93S 168.54E 0 4.1,3.9 **¶16395709**

ISCJB I 13 18 02 01.5–.94 20.9S–.20 168.4E–.20 30 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 18 02 13.0–1.6 21.0S–.40 168.7E–.30 10 4.1b 14 2-149
IDC I 13 18 02 12.0–2.1 20.94S 168.62E 0 4.4,4.1 ¶17190076
NEIC I 13 18 02 13.4–1.0 20.90S 168.64E 10 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=93.3km s-min=24.4km az=153.0.
NEIC Event type se. Error ellipse: s-maj=44.7km s-min=12.2km az=153.0.
ISC I 13 18 03 28.4–.70 20.7S–.10 168.4E–.10 26 4.5b 63 2-165
IDC I 13 18 03 24.5–.80 20.66S 168.49E 0 4.5,4.4 ¶16151278
NEIC I 13 18 03 25.8–.50 20.69S 168.51E 10 4.9b,4.4
ISCJB I 13 18 03 27.2–.34 20.63S–.09 168.38E–.07 26 4.5b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 18 09 36.6–.61 20.8S–.10 168.6E–.10 30 4.4b 44 2-165
IDC I 13 18 09 32.0–.71 20.82S 168.75E 0 4.5,4.3 ¶16151279
NEIC I 13 18 09 33.5–.46 20.79S 168.70E 10 4.7b,4.3
ISCJB I 13 18 09 35.3–.36 20.85S–.09 168.59E–.07 30 4.3b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 13 18 15 49.7–2.9 21.15S 168.80E 0 4.1,3.8
¶17190078
IDC Error ellipse: s-maj=128.1km s-min=27.5km az=153.0.
IDC I 13 18 16 31.1–3.2 21.62S 168.69E 0 4.1,3.8
¶17190081
IDC Error ellipse: s-maj=160.2km s-min=35.0km az=161.0.
IDC I 13 18 22 24.6–2.4 20.85S 168.68E 0 4.1,3.8
¶17190083
IDC Error ellipse: s-maj=124.0km s-min=26.9km az=151.0.
IDC I 13 18 27 30.9–2.2 20.80S 168.58E 0 4.0,3.9L
¶17190084
IDC Error ellipse: s-maj=79.4km s-min=24.0km az=146.0.
IDC I 13 18 38 01.7–2.2 20.84S 168.34E 0 4.1,3.9
¶17190085
IDC Error ellipse: s-maj=75.7km s-min=24.3km az=143.0.
IDC I 13 18 43 57.2–2.5 20.99S 168.66E 0 4.1,3.8
¶17190086
IDC Error ellipse: s-maj=103.0km s-min=26.8km az=150.0.
ISC I 13 18 44 14.5–1.9 20.7S–.40 168.6E–.30 26 3.9b 6 2-90
IDC I 13 18 44 11.0–2.1 20.52S 168.55E 0 4.2,4.0 ¶17190089
ISCJB I 13 18 44 13.5–1.7 20.6S–.30 168.5E–.30 26 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 19 05 43.6–1.8 21.1S–.40 168.6E–.30 30 4.1b 12 2-146
IDC I 13 19 05 39.2–1.9 20.91S 168.71E 0 4.3,4.2b ¶17190091
ISCJB I 13 19 05 42.3–1.7 20.9S–.30 168.6E–.30 30 4.1b,4.2b
ISC Event type ke.
ISCJB Event type ke.
IDC I 13 19 13 45.3–2.7 21.60S 168.89E 0 4.2,4.0b
¶17190093
IDC Error ellipse: s-maj=122.2km s-min=23.0km az=158.0.
ISC I 13 19 22 37.2–1.4 20.6S–.30 168.4E–.20 26 3.9b 10 2-165
IDC I 13 19 22 33.4–1.6 20.59S 168.45E 0 4.1,3.9 ¶17190094
ISCJB I 13 19 22 36.2–1.6 20.5S–.20 168.3E–.30 26 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 13 19 23 10.0–2.8 20.38S 168.26E 0 4.2,4.0
¶17190097
IDC Error ellipse: s-maj=121.3km s-min=29.0km az=157.0.
ISC I 13 19 26 31.7–1.5 20.7S–.30 168.5E–.20 26 4.0b 13 2-145
IDC I 13 19 26 28.0–1.9 20.56S 168.54E 0 4.2,4.0 ¶16151302
NEIC I 13 19 26 29.4–1.2 20.62S 168.55E 10 4.2b,4.0
ISCJB I 13 19 26 30.8–1.3 20.5S–.20 168.4E–.20 26 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 19 32 50.8–1.7 20.7S–.30 168.1E–.30 32 3.9b 7 2-91
IDC I 13 19 32 46.4–2.0 20.53S 168.07E 0 4.3,4.0 ¶17190098
ISCJB I 13 19 32 49.9–1.5 20.6S–.20 168.0E–.30 32 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 13 19 36 25.4–2.0 20.70S 168.35E 0 4.3,4.0
¶17190100
IDC Error ellipse: s-maj=76.9km s-min=24.8km az=146.0.
ISC I 13 19 53 19.8–2.0 21.1S–.40 168.5E–.30 30 3.9b 11 2-146
IDC I 13 19 53 16.5–1.8 20.78S 168.44E 0 4.3,4.2 ¶16151306
NEIC I 13 19 53 17.7–1.3 20.83S 168.50E 10 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=62.3km s-min=19.7km az=145.0.
NEIC Event type se. Error ellipse: s-maj=46.3km s-min=14.1km az=150.0.
ISC I 13 20 07 27.2–.40 20.58S–.06 168.53E–.07 26 5.0b,4.7s 176 2-165
BJI I 13 20 07 21.7 20.85S 168.64E 10 5.3b,5.2s ¶15925975
IDC I 13 20 07 22.9–.64 20.52S 168.45E 0 4.6,4.5
NEIC I 13 20 07 24.7–.18 20.44S 168.40E 10 5.2b,4.5
MOS I 13 20 07 24.9–1.1 20.54S 168.40E 21 4.7b,4.5
ISCJB I 13 20 07 25.9–.19 20.56S–.04 168.49E–.04 26 4.9b,4.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 20 24 27.9–2.0 21.0S–.50 168.7E–.40 26 3.8b 7 2-92
IDC I 13 20 24 24.6–2.1 20.70S 168.65E 0 4.0,3.8 ¶17190102
ISC Event type ke.
IDC Error ellipse: s-maj=92.7km s-min=26.2km az=149.0.
IDC I 13 20 31 09.7–5.9 20.37S 167.72E 0 4.0,3.7
¶17190104
IDC Error ellipse: s-maj=122.9km s-min=32.4km az=106.0.
ISC I 13 20 33 05.8–2.3 21.5S–.60 168.9E–.30 29 4.2b 15 2-146
IDC I 13 20 33 02.6–2.4 21.29S 168.80E 0 4.4,4.1 ¶16151311
NEIC I 13 20 33 02.8–1.5 21.47S 168.98E 10 4.4b,4.1
ISCJB I 13 20 33 04.6–1.6 21.4S–.50 168.8E–.20 29 4.2b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 13 20 36 29.4–6.1 20.45S 167.98E 0 3.9,3.8b
¶17190105
IDC Error ellipse: s-maj=159.0km s-min=30.8km az=117.0.
ISC I 13 20 37 45.5–2.4 21.2S–.60 168.6E–.30 26 3.8b 7 2-91
IDC I 13 20 37 43.1–2.3 20.67S 168.45E 0 4.0,3.8 ¶17190107
ISC Event type ke.
IDC Error ellipse: s-maj=83.6km s-min=30.4km az=146.0.
ISC I 13 20 43 05.0–2.1 21.3S–.40 168.7E–.30 25 4.1b 11 2-146
IDC I 13 20 43 01.1–2.3 21.21S 168.85E 0 4.4,4.2 ¶17190108
ISCJB I 13 20 43 03.1–2.0 21.2S–.40 168.9E–.30 25 4.1b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 20 50 39.5–1.3 20.4S–.20 167.4E–.30 35 3.9b 8 2-165
IDC I 13 20 50 34.2–1.5 20.37S 167.43E 0 4.4,4.1b ¶17190110
ISCJB I 13 20 50 38.6–1.4 20.2S–.10 167.3E–.20 33 4.0b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 20 53 31.2–1.8 20.7S–.30 168.2E–.30 32 3.8b 7 2-91
IDC I 13 20 53 26.5–2.0 20.61S 168.20E 0 4.0,3.8 ¶17190111
ISC Event type ke.
IDC Error ellipse: s-maj=67.5km s-min=24.5km az=140.0.
ISC I 13 20 58 29.0–1.9 21.2S–.50 168.5E–.30 30 3.9b 11 2-146
IDC I 13 20 58 25.4–2.1 20.83S 168.55E 0 4.2,4.1L ¶16151319
NEIC I 13 20 58 27.1–1.4 20.76S 168.49E 10 4.4b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=82.2km s-min=21.7km az=148.0.
NEIC Event type se. Error ellipse: s-maj=51.3km s-min=16.3km az=149.0.
IDC I 13 21 04 32.9–5.6 20.31S 167.45E 0 4.1,3.8
¶17190112
IDC Error ellipse: s-maj=112.4km s-min=31.9km az=98.0.
ISC I 13 21 17 33.0–1.4 21.1S–.30 168.4E–.20 30 4.1b 14 2-165
IDC I 13 21 17 29.2–1.7 20.80S 168.50E 0 4.3,4.1 ¶16026447
NEIC I 13 21 17 30.5–.70 20.77S 168.49E 10 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=62.1km s-min=22.6km az=144.0.
NEIC Event type se. Error ellipse: s-maj=33.7km s-min=12.4km az=149.0.
ISC I 13 21 21 52.2–.97 21.0S–.20 168.5E–.10 30 4.3b,3.7s 33 2-165
IDC I 13 21 21 47.9–1.3 20.88S 168.50E 0 4.4,4.2 ¶15940515
NEIC I 13 21 21 49.1–.49 20.95S 168.57E 10 4.3b,4.2
ISCJB I 13 21 21 51.1–.85 20.8S–.20 168.4E–.10 30 4.5b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 21 32 40.2–.34 20.71S–.06 168.48E–.06 26 5.0b,4.1s 239 2-165
IDC I 13 21 32 35.9–.57 20.70S 168.47E 0 4.8,4.7 ¶15925977
NEIC I 13 21 32 37.8–.19 20.68S 168.41E 10 5.1b,4.7
BJI I 13 21 32 37.4 20.70S 168.40E 16 5.4b,5.3s
ISCJB I 13 21 32 39.0–.21 20.70S–.05 168.40E–.04 26 4.9b,4.1s
MOS I 13 21 32 40.4–1.1 20.57S 168.29E 33 4.9b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=16.9km az=125.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.4km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.5km az=154.3.
MOS Error ellipse: s-maj=14.8km s-min=12.2km az=37.3.
ISC I 13 21 48 00.4–.74 20.7S–.20 168.3E–.10 26 4.4b 26 2-165
IDC I 13 21 47 56.5–1.3 20.64S 168.32E 0 4.4,4.2 ¶16026448
NEIC I 13 21 47 57.7–.39 20.70S 168.33E 10 4.5b,4.2
ISCJB I 13 21 47 58.9–.63 20.7S–.10 168.2E–.10 26 4.5b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 13 21 59 12.3–7.3 20.52S 168.55E 0 3.9,3.7
¶17190114
IDC Error ellipse: s-maj=188.1km s-min=44.2km az=126.0.
IDC I 13 22 37 46.2–1.9 20.39S 168.23E 0 4.1,3.8
¶17190116
IDC Error ellipse: s-maj=83.6km s-min=28.9km az=148.0.
ISC I 13 22 57 50.6–.40 20.68S–.07 168.49E–.07 26 4.9b,4.3s 154 2-165
IDC I 13 22 57 44.9–.88 20.86S 168.63E 0 4.6,4.5b ¶15925978
NEIC I 13 22 57 47.9–.22 20.49S 168.40E 10 5.0b,4.5b
MOS I 13 22 57 48.2–1.6 20.75S 168.48E 29 4.8b,4.5b
ISCJB I 13 22 57 49.0–.21 20.59S–.05 168.41E–.04 26 4.8b,4.2s
BJI I 13 22 57 50.0 20.47S 169.31E 44 5.2b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=17.0km az=149.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.1km az=108.0.
MOS Error ellipse: s-maj=21.7km s-min=15.0km az=5.2.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=143.3.
ISC I 13 23 04 43.1–.55 20.7S–.10 168.4E–.10 26 4.8b,3.9s 82 2-165
IDC I 13 23 04 39.3–.83 20.61S 168.32E 0 4.8,4.7b ¶15940516
NEIC I 13 23 04 41.0–.32 20.60S 168.31E 10 4.7b,4.7b
ISCJB I 13 23 04 41.9–.51 20.69S–.07 168.37E–.09 26 4.8b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 13 23 33 09.5–.79 20.8S–.20 168.5E–.10 26 4.3b 14 15-96
IDC I 13 23 33 06.7–3.6 20.45S 168.29E 0 4.1,3.8 ¶16019213
NEIC I 13 23 33 08.1–.46 20.46S 168.31E 10 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=262.0km s-min=35.1km az=160.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=10.2km az=180.0.
ISC I 13 23 50 33.0–.71 21.4S–.20 168.52E–.08 20 4.2b 17 2-149
IDC I 13 23 50 31.1–1.8 20.94S 168.39E 0 4.3,4.1 ¶16032763
NEIC I 13 23 50 32.6–.40 20.97S 168.39E 10 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=66.2km s-min=21.6km az=145.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=8.2km az=176.0.
IDC I 14 02 10 44.0–3.7 20.29S 168.28E 0 4.1,3.7
¶17190122
IDC Error ellipse: s-maj=277.6km s-min=35.2km az=160.0.
IDC I 14 02 12 15.5–2.9 20.13S 168.39E 0 4.2,3.8
¶17190123
IDC Error ellipse: s-maj=168.5km s-min=29.1km az=156.0.
ISC I 14 02 22 24.0–.38 20.90S–.07 168.48E–.10 30 4.8s,4.8b 165 14-165
MOS I 14 02 22 19.4–.89 20.91S 168.51E 10 4.7b,4.8b ¶15925983
IDC I 14 02 22 19.2–.46 20.92S 168.55E 0 4.6,4.6
NEIC I 14 02 22 21.2–.20 20.78S 168.44E 10 5.0b,4.6
ISCJB I 14 02 22 22.8–.20 20.88S–.04 168.42E–.05 30 4.7b,4.3s
BJI I 14 02 22 24.0 20.56S 167.55E 10 5.4b,5.2s
ISC Event type se.
MOS Error ellipse: s-maj=18.1km s-min=16.3km az=94.1.
IDC Error ellipse: s-maj=17.0km s-min=10.3km az=70.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.1km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.8km az=10.7.
ISC I 14 02 35 18.8–.73 20.83S–.06 168.58E–.06 31–4 5.2b,4.3s 395 8-165
IDC I 14 02 35 13.7–.43 20.76S 168.49E 0 5.0,4.9 ¶15925985
MOS I 14 02 35 14.3–1.6 20.79S 168.44E 10 5.2b,4.5s
BJI I 14 02 35 14.8 20.28S 168.72E 6 5.5b,5.3s
NEIC I 14 02 35 15.9–.22 20.67S 168.45E 10 5.3b,5.3s
GCMT I 14 02 35 15.9–.20 20.84S 168.36E 13–0 5.1W,5.3s
ISCJB I 14 02 35 17.8–2.5 20.82S–.05 168.51E–.04 32–17 5.1b,4.3s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c52; s99,c151;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.10±.22 $M_{\theta\theta}$0.66±.14; $M_{\phi\phi}$4.44±.15; $M_{r\theta}$-2.50±.43; $M_{\theta\phi}$-1.30±.10; $M_{\phi r}$1.32±.34; Best double couple: NP1:ϕ_s145.00000°,δ59.00000°,λ-109.00000°. NP2:ϕ_s358.00000°,δ36.00000°,λ-62.00000°. Principal axes: T 5.2630,Plg12.0000°,Azm248.0000°; N 0.8330,Plg16.0000°,Azm155.0000° ; P -6.0930,Plg70.0000°,Azm13.0000° $M_0$5.67800×10^{16}
ISCJB Event type se.
IDC I 14 03 31 44.5–3.5 20.90S 168.54E 0 3.9,3.7
¶17190130
IDC Error ellipse: s-maj=192.7km s-min=29.9km az=156.0.
IDC I 14 06 48 06.4–2.6 20.17S 168.23E 0 4.3,4.0
¶17190140
IDC Error ellipse: s-maj=107.0km s-min=32.9km az=155.0.
ISC I 14 06 59 38.4–.60 20.9S–.10 168.5E–.10 30 4.5b,3.8s 33 17-165
IDC I 14 06 59 33.6–.72 20.94S 168.51E 0 4.6,4.4 ¶16007268
NEIC I 14 06 59 35.2–.42 20.80S 168.51E 10 4.5b,4.4
ISCJB I 14 06 59 36.7–.57 20.89S–.09 168.44E–.09 30 4.5b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 07 14 02.1–1.8 20.7S–.40 168.6E–.30 26 3.9b 8 21-145
IDC I 14 07 13 58.2–1.8 20.59S 168.56E 0 4.1,3.9 ¶17190142
ISCJB I 14 07 14 00.6–1.6 20.6S–.40 168.5E–.30 26 3.9b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC I 14 07 33 39.1–2.0 20.08S 168.64E 0 4.1,3.9
¶17190143
IDC Error ellipse: s-maj=86.3km s-min=29.9km az=148.0.
ISC I 14 08 58 34.1–.39 20.89S–.07 168.58E–.07 30 4.9b,4.1s 172 15-165
BJI I 14 08 58 27.3 20.73S 169.25E 10 5.3b,5.2s ¶15927324
IDC I 14 08 58 29.5–.91 20.91S 168.44E 0 4.8,4.7b
NEIC I 14 08 58 31.4–.23 20.72S 168.48E 10 5.0b,4.7b
ISCJB I 14 08 58 33.2–.27 20.81S–.04 168.42E–.05 30 4.9b,4.0s

MOS I 14 08 58 33.9–1.2 20.78S 168.28E 33 4.8b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=19.1km az=139.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.6km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.6km az=154.2.
MOS Error ellipse: s-maj=17.8km s-min=13.6km az=16.7.
ISC I 14 09 08 18.0–.80 20.3S–.20 168.2E–.10 32 4.2b,3.3s 16 18-165
IDC I 14 09 08 13.2–.91 20.36S 168.15E 0 4.2,4.1 ¶16151360
NEIC I 14 09 08 14.6–.63 20.31S 168.09E 10 4.3b,4.1
ISCJB I 14 09 08 16.6–.68 20.5S–.10 168.0E–.10 32 4.1b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 09 32 10.0–1.1 20.2S–.30 168.0E–.20 32 3.9b 8 26-92
IDC I 14 09 32 04.5–1.9 20.39S 168.20E 0 4.3,4.1 ¶16151362
NEIC I 14 09 32 06.6–.92 20.22S 168.04E 10 4.1b,4.1
ISCJB I 14 09 32 08.8–1.0 20.2S–.30 167.9E–.20 32 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 09 33 51.8–1.1 20.3S–.30 168.2E–.20 27 4.0b 8 27-91
IDC I 14 09 33 47.7–1.9 20.21S 168.24E 0 4.2,4.0 ¶16151364
NEIC I 14 09 33 49.1–.82 20.25S 168.23E 10 4.1b,4.0
ISCJB I 14 09 33 50.5–1.0 20.2S–.30 168.1E–.20 27 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 09 44 45.2–.62 20.3S–.10 168.2E–.10 25 4.2b,3.6s 25 13-165
IDC I 14 09 44 41.6–.69 20.24S 168.27E 0 4.4,4.3 ¶15940519
ISCJB I 14 09 44 43.8–.48 20.29S–.09 168.14E–.10 25 4.2b,3.5s
NEIC I 14 09 44 43.1–.48 20.24S 168.24E 10 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=17.7km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=12.5km az=30.1.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=12.5km az=154.0.
IDC I 14 09 47 38.8–3.1 21.51S 168.76E 0 4.3,3.9
¶17190152
IDC Error ellipse: s-maj=168.1km s-min=35.1km az=161.0.
IDC I 14 09 51 51.9–1.8 20.02S 167.33E 0 4.4,4.1
¶17190153
IDC Error ellipse: s-maj=95.5km s-min=24.8km az=150.0.
ISC I 14 10 39 52.9–1.8 20.4S–.50 168.4E–.30 26 4.0b 9 27-145
IDC I 14 10 39 48.9–2.0 20.48S 168.46E 0 4.2,3.9 ¶16151371
NEIC I 14 10 39 50.6–1.4 20.45S 168.40E 10 4.3b,3.9
ISCJB I 14 10 39 51.5–1.7 20.5S–.40 168.3E–.30 26 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 10 45 56.1–.28 20.56S–.06 168.51E–.06 26 5.1b,4.1s 384 15-165
IDC I 14 10 45 51.8–.45 20.51S 168.36E 0 4.8,4.8 ¶15927326
NEIC I 14 10 45 54.4–.74 20.42S 168.28E 12–4 5.2b,4.8
GCMT I 14 10 45 54.3–.30 20.47S 168.14E 16–1 4.9W,4.8
ISCJB I 14 10 45 55.1–.14 20.50S–.03 168.34E–.03 26 5.1b,4.1s
MOS I 14 10 45 56.4–1.3 20.45S 168.28E 36 5.1b,4.1s
BJI I 14 10 45 57.1 19.59S 167.94E 10 5.3b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.8km az=141.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=99.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s67,c86; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.21±.17 $M_{\theta\theta}$0.27±.11; $M_{\phi\phi}$1.94±.11; $M_{r\theta}$1.38±.38; $M_{\theta\phi}$-0.74±.07; $M_{\phi r}$1.40±.28; Best double couple: NP1:ϕ_s190.00000°,δ63.00000°,λ-61.00000°. NP2:ϕ_s319.00000°,δ38.00000°,λ-134.00000°. Principal axes: T 2.4240,Plg14.0000°,Azm259.0000°; N 0.8790,Plg25.0000°,Azm356.0000°; P -3.3020,Plg61.0000°,Azm144.0000° $M_0$2.86300×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=141.3.
MOS Error ellipse: s-maj=11.9km s-min=10.8km az=134.6.
IDC I 14 11 02 21.1–3.5 20.09S 168.85E 0 3.8,3.6
¶17190157
IDC Error ellipse: s-maj=266.6km s-min=32.5km az=160.0.
ISC I 14 12 22 19.3–1.6 21.5S–.40 168.7E–.20 20 4.1b 16 21-150
IDC I 14 12 22 15.8–1.6 21.51S 168.73E 0 4.2,4.1 ¶16151381
ISCJB I 14 12 22 17.6–1.3 21.6S–.30 168.6E–.20 20 4.1b,4.1
NEIC I 14 12 22 17.1–1.1 21.58S 168.79E 10 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=73.5km s-min=20.3km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=52.9km s-min=16.2km az=154.5.
NEIC Event type se. Error ellipse: s-maj=47.0km s-min=13.2km az=157.0.
ISC I 14 12 30 19.8–.83 20.6S–.20 168.4E–.10 26 4.5b,3.6s 26 14-165
IDC I 14 12 30 15.9–.96 20.55S 168.36E 0 4.6,4.4 ¶15940522
NEIC I 14 12 30 17.1–.54 20.57S 168.41E 10 4.5b,4.4
ISCJB I 14 12 30 18.5–.80 20.6S–.20 168.3E–.10 26 4.4b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 12 53 35.8–.70 20.6S–.10 168.3E–.10 26 4.2b,3.4s 21 19-165
IDC I 14 12 53 32.1–.76 20.61S 168.30E 0 4.3,4.2 ¶15940523
NEIC I 14 12 53 33.4–.47 20.57S 168.29E 10 4.3b,4.2
ISCJB I 14 12 53 34.0–.59 20.7S–.10 168.2E–.10 26 4.1b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 14 13 28 48.8–2.9 20.90S 168.39E 0 4.1,3.9
¶17190167
IDC Error ellipse: s-maj=123.6km s-min=32.0km az=156.0.
IDC I 14 14 14 13.6–3.4 21.00S 168.39E 0 4.0,3.7
¶17190170
IDC Error ellipse: s-maj=207.9km s-min=31.0km az=159.0.
IDC I 14 14 17 25.8–6.8 20.47S 168.02E 0 4.1,3.8
¶17190171
IDC Error ellipse: s-maj=281.8km s-min=53.3km az=149.0.
IDC I 14 14 36 52.9–5.8 21.25S 168.53E 0 4.0,3.8
¶17190175
IDC Error ellipse: s-maj=205.9km s-min=50.0km az=147.0.
IDC I 14 14 39 38.1–2.7 20.66S 168.48E 0 4.1,3.8
¶17190176
IDC Error ellipse: s-maj=125.0km s-min=31.3km az=156.0.
ISC I 14 14 52 31.8–1.7 21.1S–.40 168.7E–.20 30 4.0b 10 32-165
IDC I 14 14 52 27.1–1.7 21.08S 168.68E 0 4.2,4.0 ¶17190179
ISCJB I 14 14 52 29.6–1.9 21.2S–.40 168.7E–.20 30 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 14 15 06 46.5–2.6 21.01S 168.61E 0 3.8,3.6
¶17190184
IDC Error ellipse: s-maj=124.1km s-min=31.4km az=157.0.
IDC I 14 15 26 12.0–10 20.45S 167.78E 0 3.9,3.7b
¶17190187
IDC Error ellipse: s-maj=298.1km s-min=51.9km az=137.0.
IDC I 14 15 26 26.6–2.7 20.91S 168.53E 0 4.2,3.9
¶17190190
IDC Error ellipse: s-maj=116.1km s-min=35.3km az=159.0.
ISC I 14 15 27 02.4–.97 20.5S–.20 168.3E–.20 32 3.9b 8 19-165
IDC I 14 15 26 57.7–1.1 20.44S 168.25E 0 4.3,4.1 ¶17190193
ISCJB I 14 15 27 01.0–.91 20.6S–.20 168.2E–.20 32 3.9b,2.9s
ISC Event type ke.
ISCJB Event type ke.
IDC I 14 15 57 49.8–2.8 20.82S 168.69E 0 4.1,3.8
¶17190194
IDC Error ellipse: s-maj=142.9km s-min=33.0km az=160.0.
IDC I 14 15 59 42.9–4.4 21.17S 168.45E 0 4.3,4.1b
¶17190195

IDC Error ellipse: s-maj=159.1km s-min=42.4km az=149.0.
IDC I 14 17 44 03.1–3.0 21.30S 168.74E 0 4.2,3.8
¶17190198
IDC Error ellipse: s-maj=150.1km s-min=33.9km az=160.0.
IDC I 14 20 01 40.4–2.3 21.00S 168.66E 0 4.0,3.8
¶17190209
IDC Error ellipse: s-maj=91.6km s-min=23.2km az=150.0.
ISC I 14 20 44 07.9–.40 20.56S–.07 168.48E–.07 26 5.0b,3.8s 154 2-165
BJI I 14 20 44 00.7 20.88S 168.91E 10 5.4b,5.2s ¶15930962
IDC I 14 20 44 04.2–.61 20.47S 168.38E 0 4.6,4.5
NEIC I 14 20 44 05.3–.30 20.39S 168.41E 10 5.1b,4.5
GCMT I 14 20 44 05.3–.30 20.65S 168.22E 18–1 4.9W,4.5
ISCJB I 14 20 44 06.9–.22 20.43S–.05 168.40E–.05 26 4.8b,4.0s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c24; s65,c85;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.49±.19 $M_{\theta\theta}$0.41±.12; $M_{\phi\phi}$2.09±.12; $M_{r\theta}$-1.38±.33; $M_{\theta\phi}$-0.42±.07; $M_{\phi r}$1.73±.28; Best double couple: NP1:ϕ_s151.00000°,δ67.00000°,λ-101.00000°. NP2:ϕ_s356.00000°,δ25.00000°,λ-66.00000°. Principal axes: T 2.9730,Plg21.0000°,Azm249.0000°; N 0.4720,Plg10.0000°,Azm155.0000°; P -3.4390,Plg66.0000°,Azm41.0000° $M_0$3.20600×10^{16}
ISCJB Event type se.
ISC I 14 20 50 48.6–2.2 21.2S–.60 168.5E–.30 30 3.9b 8 2-92
IDC I 14 20 50 45.4–2.0 20.71S 168.46E 0 4.2,3.9 ¶17190211
ISCJB I 14 20 50 47.7–2.0 21.1S–.50 168.4E–.30 30 3.8b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC I 14 21 16 20.1–3.1 21.33S 168.87E 0 4.2,3.8
¶17190212
IDC Error ellipse: s-maj=153.7km s-min=28.1km az=158.0.
ISC I 14 22 31 14.1–.52 20.9S–.10 168.4E–.10 30 4.3b,3.5s 39 14-165
IDC I 14 22 31 09.6–.79 20.85S 168.49E 0 4.4,4.3 ¶16057159
NEIC I 14 22 31 11.0–.32 20.83S 168.44E 10 4.4b,4.3
ISCJB I 14 22 31 12.3–.48 20.91S–.09 168.40E–.09 30 4.3b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 23 08 30.8–1.1 21.5S–.20 168.5E–.10 20 4.2b 15 15-146
ISCJB I 14 23 08 28.8–.95 21.5S–.20 168.6E–.10 20 4.3b,3.1s ¶16057160
NEIC I 14 23 08 29.0–.56 21.57S 168.56E 10 4.2b,3.1s
IDC I 14 23 08 32.6–5.2 20.53S 167.90E 0 4.4,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=29.4km s-min=13.6km az=176.2.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=8.9km az=177.0.
IDC Error ellipse: s-maj=153.5km s-min=46.9km az=141.0.
ISC I 14 23 37 54.7–.84 20.6S–.20 168.3E–.10 32 4.0b 13 14-129
IDC I 14 23 37 50.7–1.9 20.44S 168.21E 0 4.2,3.9 ¶16057161
NEIC I 14 23 37 52.4–.50 20.48S 168.19E 10 4.3b,3.9
ISCJB I 14 23 37 54.0–.69 20.5S–.10 168.2E–.10 32 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 14 23 50 55.2–.66 21.3S–.20 168.7E–.10 20 4.4b 33 14-165
IDC I 14 23 50 52.7–1.8 20.93S 168.66E 0 4.5,4.3b ¶16057163
ISCJB I 14 23 50 53.2–.66 21.3S–.20 168.72E–.09 20 4.6b,4.0s
NEIC I 14 23 50 53.8–4.6 21.31S 168.70E 12–29 4.4b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=71.7km s-min=34.5km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=22.7km s-min=11.7km az=9.5.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=8.9km az=179.0.
ISC I 15 00 10 06.4–.78 21.0S–.10 168.4E–.20 30 4.3b,3.7s 27 14-149
IDC I 15 00 10 02.4–1.0 20.85S 168.31E 0 4.4,4.3 ¶15940524
NEIC I 15 00 10 03.4–.58 20.94S 168.52E 10 4.3b,4.3
ISCJB I 15 00 10 05.1–.69 20.9S–.10 168.4E–.10 30 4.2b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 01 39 53.2–.27 20.85S–.05 168.56E–.05 30 5.2b,4.1s 462 2-165
BJI I 15 01 39 47.7 20.87S 168.97E 16 5.5s,5.4b ¶15931026
IDC I 15 01 39 48.5–.40 20.80S 168.58E 0 5.0,4.9
MOS I 15 01 39 49.8–1.2 20.69S 168.61E 15 5.3b,4.9
GCMT I 15 01 39 50.5–.20 20.70S 168.33E 13–0 5.0W,4.9
NEIC I 15 01 39 50.5–.12 20.69S 168.46E 10 5.3b,4.9
ISCJB I 15 01 39 52.3–.14 20.76S–.03 168.41E–.03 30 5.2b,4.1s
ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c53; s91,c125;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.25±.15 $M_{\theta\theta}$0.39±.10; $M_{\phi\phi}$2.86±.10; $M_{r\theta}$0.25±.29; $M_{\theta\phi}$-0.47±.07; $M_{\phi r}$1.59±.27; Best double couple: NP1:ϕ_s178.00000°,δ59.00000°,λ-82.00000°. NP2:ϕ_s343.00000°,δ32.00000°,λ-103.00000°. Principal axes: T 3.3020,Plg13.0000°,Azm262.0000°; N 0.3680,Plg7.0000°,Azm354.0000°; P -3.6700,Plg75.0000°,Azm110.0000° $M_0$3.48600×10^{16}
NEIC Event type se.
ISCJB Event type se.
ISC I 15 01 57 15.6–1.8 21.4S–.50 168.7E–.20 20 4.2b 16 2-152
NEIC I 15 01 57 13.9–1.2 21.26S 168.81E 10 4.4b ¶16005271
IDC I 15 01 57 13.3–2.5 21.14S 168.69E 0 4.2,4.0b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=50.8km s-min=13.0km az=156.0.
IDC Error ellipse: s-maj=120.1km s-min=25.6km az=150.0.
ISC I 15 03 05 59.0–1.6 21.2S–.40 168.4E–.30 30 4.4b,3.1s 20 2-152
IDC I 15 03 05 56.0–2.4 20.88S 168.34E 0 4.0,4.0b ¶16005275
NEIC I 15 03 05 56.8–.66 20.95S 168.45E 10 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=92.0km s-min=24.2km az=137.0.
NEIC Event type se. Error ellipse: s-maj=32.4km s-min=10.7km az=145.0.
ISC I 15 05 48 51.7–.66 21.1S–.10 168.6E–.10 30 4.3b 32 2-165
NEIC I 15 05 48 48.6–.42 21.12S 168.68E 10 4.5b ¶16007269
ISCJB I 15 05 48 50.1–.57 21.2S–.10 168.64E–.08 30 4.4b,4.0s
IDC I 15 05 48 51.9–.85 21.12S 168.61E 31–4 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=9.2km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=8.4km az=154.5.
IDC Error ellipse: s-maj=30.1km s-min=17.3km az=152.0.
ISC I 15 09 05 55.8–1.9 21.4S–.40 168.5E–.30 30 4.4b 10 2-149
IDC I 15 09 05 51.8–2.0 21.19S 168.53E 0 4.5,4.3 ¶15940525
ISCJB I 15 09 05 53.8–2.0 21.2S–.40 168.6E–.30 30 4.3b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 09 12 20.8–.66 20.4S–.10 168.3E–.10 26 4.5b,3.5s 24 2-165
IDC I 15 09 12 16.8–.96 20.43S 168.44E 0 4.6,4.4 ¶15940526
NEIC I 15 09 12 18.6–.77 20.40S 168.35E 10 4.3b,4.4
ISCJB I 15 09 12 19.2–.59 20.37S–.08 168.29E–.09 26 4.3b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 09 48 09.7–1.5 20.8S–.40 168.5E–.30 30 4.1b,3.5s 9 2-165
IDC I 15 09 48 05.2–1.6 20.77S 168.45E 0 4.3,4.1 ¶17190236
ISCJB I 15 09 48 08.6–1.5 20.7S–.30 168.3E–.30 30 4.0b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC I 15 11 36 17.5–1.6 20.21S 168.30E 0 5.0s,5.0
¶17190244
IDC Error ellipse: s-maj=80.0km s-min=24.4km az=141.0.
ISC I 15 12 24 57.6–.76 20.8S–.10 168.3E–.10 30 4.2b 19 2-165
IDC I 15 12 24 53.2–.84 20.67S 168.32E 0 4.3,4.1 ¶16057168
NEIC I 15 12 24 54.7–.53 20.68S 168.27E 10 4.5b,4.1
ISCJB I 15 12 24 56.0–.63 20.74S–.09 168.3E–.10 30 4.1b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 15 12 39 57.6–3.0 21.09S 168.70E 0 4.0,3.8

¶17190246
IDC Error ellipse: s-maj=137.6km s-min=29.6km az=165.0.
IDC I 15 12 47 47.2–7.3 20.44S 168.69E 0 4.8s,4.8

¶17190247
IDC Error ellipse: s-maj=158.4km s-min=64.5km az=113.0.
IDC I 15 14 16 29.6–1.8 20.45S 168.57E 0 4.2,3.9

¶17190253
IDC Error ellipse: s-maj=86.5km s-min=27.0km az=150.0.
ISC I 15 14 34 46.4–1.4 21.2S–.40 168.6E–.20 25 4.1b 11 2-165
IDC I 15 14 34 42.5–1.5 21.06S 168.74E 0 4.1,4.0b ¶16151485
NEIC I 15 14 34 43.8–.95 21.13S 168.77E 10 4.1b,4.0b
ISCJB I 15 14 34 45.2–1.3 21.0S–.40 168.7E–.30 25 3.9b,4.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 14 37 50.2–.87 21.1S–.20 168.4E–.10 30 4.7b,4.1s 49 2-165
IDC I 15 14 37 45.6–.94 20.97S 168.48E 0 4.7,4.6 ¶15940528
NEIC I 15 14 37 46.9–.62 21.04S 168.45E 10 4.8b,4.6
ISCJB I 15 14 37 48.9–.95 21.1S–.20 168.5E–.10 30 4.6b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 15 15 12 18.6–4.1 20.80S 168.04E 0 4.4,4.1

¶17190260
IDC Error ellipse: s-maj=117.7km s-min=30.4km az=128.0.
ISC I 15 16 49 17.1–1.3 21.1S–.30 168.7E–.20 30 4.1b 17 2-165
IDC I 15 16 49 12.8–1.4 20.92S 168.81E 0 4.2,4.1 ¶16151502
NEIC I 15 16 49 14.1–1.1 20.92S 168.79E 10 4.0b,4.1
ISCJB I 15 16 49 15.6–1.3 20.9S–.20 168.8E–.20 30 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 19 20 45.2–1.0 20.6S–.20 168.2E–.20 26 4.3b,3.4s 16 2-165
IDC I 15 19 20 41.0–1.2 20.53S 168.34E 0 4.3,4.1 ¶16032777
NEIC I 15 19 20 42.6–.67 20.49S 168.30E 10 4.6b,4.1
ISCJB I 15 19 20 44.0–.95 20.4S–.20 168.2E–.20 26 4.2b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 20 00 58.0–.35 20.76S–.07 168.61E–.06 26 5.3b,3.9s 344 2-165
IDC I 15 20 00 53.8–.56 20.84S 168.77E 0 4.8,4.8b ¶15931167
GCMT I 15 20 00 55.7–.40 20.66S 168.33E 30–1 5.0W,4.8b
NEIC I 15 20 00 55.7–.16 20.73S 168.67E 10 5.3b,4.8b
ISCJB I 15 20 00 56.7–.18 20.77S–.05 168.62E–.04 26 5.2b,4.0s
MOS I 15 20 00 57.1–1.3 20.71S 168.64E 27 5.1b,4.0s
BJI I 15 20 00 59.2 20.37S 168.89E 37 5.5s,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=15.0km az=134.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c53; s57,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.79±.22 $M_{\theta\theta}$-0.01±.16; $M_{\phi\phi}$2.80±.15; $M_{r\theta}$-0.31±.29; $M_{\theta\phi}$-0.80±.10; $M_{\phi r}$1.48±.20; Best double couple: NP1:ϕ_s167.00000°,δ59.00000°,λ-88.00000°. NP2:ϕ_s344.00000°,δ31.00000°,λ-93.00000°. Principal axes: T 3.3810,Plg14.0000°,Azm255.0000°; N -0.2200,Plg1.0000°,Azm346.0000°; P -3.1620,Plg76.0000°,Azm81.0000° M_o3.27200×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.0km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.3km az=159.1.
MOS Error ellipse: s-maj=14.7km s-min=10.9km az=115.9.
ISC I 16 03 44 08.2–1.8 21.0S–.40 168.3E–.30 30 4.1b,3.4s 9 2-148
IDC I 16 03 44 03.9–2.2 20.84S 168.49E 0 4.2,4.0 ¶16031151
NEIC I 16 03 44 04.8–1.2 21.00S 168.59E 10 4.3b,4.0
ISCJB I 16 03 44 06.9–1.7 20.9S–.30 168.4E–.30 30 4.1b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 16 08 43 26.0–1.2 20.5S–.20 168.5E–.20 26 4.3b,3.5s 17 2-165
IDC I 16 08 43 22.4–1.3 20.42S 168.54E 0 4.4,4.2 ¶15940532
NEIC I 16 08 43 23.9–.62 20.37S 168.46E 10 4.7b,4.2
ISCJB I 16 08 43 25.0–1.1 20.4S–.10 168.4E–.20 26 4.2b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 16 12 06 57.0–1.3 21.3S–.30 168.5E–.20 20 4.7b,4.0s 23 2-165
ISCJB I 16 12 06 50.4–.85 21.6S–.20 169.2E–.20 10 4.5b,3.9s ¶17190319
IDC I 16 12 06 54.3–1.2 21.07S 168.62E 0 4.7,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.3km s-min=18.4km az=146.8.
IDC Error ellipse: s-maj=44.4km s-min=23.2km az=143.0.
ISC I 16 13 29 37.9–1.9 21.3S–.50 168.5E–.30 20 3.8b 12 2-149
IDC I 16 13 29 35.6–1.9 20.98S 168.41E 0 4.0,3.9 ¶17190331
ISC Event type ke.
IDC Error ellipse: s-maj=79.2km s-min=19.9km az=150.0.
ISC I 16 13 39 05.2–1.2 20.6S–.20 168.3E–.20 26 4.0b 15 2-165
IDC I 16 13 39 01.4–1.3 20.50S 168.27E 0 4.3,4.1 ¶15940533
NEIC I 16 13 39 02.7–.77 20.49S 168.28E 10 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=49.4km s-min=21.6km az=146.0.
NEIC Event type se. Error ellipse: s-maj=25.7km s-min=11.8km az=147.0.
ISC I 16 14 01 10.9–1.6 20.9S–.30 168.4E–.20 26 3.9b 12 2-146
IDC I 16 14 01 07.7–1.6 20.57S 168.41E 0 4.2,4.0 ¶16009114
NEIC I 16 14 01 09.3–1.0 20.52S 168.37E 10 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=60.4km s-min=21.2km az=145.0.
NEIC Event type se. Error ellipse: s-maj=34.8km s-min=13.5km az=144.0.
ISC I 16 14 53 24.5–.00 20.5S–.20 168.3E–.20 26 4.0b 15 2-145
IDC I 16 14 53 20.6–.94 20.46S 168.35E 0 4.1,4.0 ¶16009115
ISCJB I 16 14 53 23.0–.80 20.5S–.10 168.2E–.10 26 3.9b,4.0
NEIC I 16 14 53 22.0–.65 20.48S 168.33E 10 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=29.5km s-min=19.2km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=23.7km s-min=9.7km az=43.7.
NEIC Event type se. Error ellipse: s-maj=21.0km s-min=11.8km az=141.0.
ISC I 16 17 34 43.9–.66 21.2S–.10 168.5E–.10 30 4.8b,4.0s 108 2-165
IDC I 16 17 34 38.8–.90 21.13S 168.47E 0 4.8,4.6 ¶15931193
NEIC I 16 17 34 40.3–.60 21.14S 168.44E 10 4.9b,4.6
ISCJB I 16 17 34 42.1–.76 21.2S–.10 168.5E–.10 30 4.8b,4.0s
BJI I 16 17 34 43.0 20.90S 168.30E 33 5.4b,5.3s
MOS I 16 17 34 43.8–1.5 21.01S 168.21E 33 5.0b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=30.7km s-min=16.2km az=147.0.
NEIC Event type se. Error ellipse: s-maj=21.7km s-min=10.9km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=21.3km s-min=10.0km az=145.7.
MOS Error ellipse: s-maj=17.0km s-min=12.8km az=19.5.
ISC I 17 03 33 13.6–1.6 21.1S–.40 168.7E–.20 30 4.0b 15 2-165
IDC I 17 03 33 09.3–1.7 21.04S 168.72E 0 4.3,4.1 ¶17190372
ISCJB I 17 03 33 12.2–1.7 21.0S–.40 168.7E–.30 30 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 04 20 12.7–1.4 20.8S–.40 168.3E–.30 26 3.8b 12 2-165
IDC I 17 04 20 09.1–1.5 20.58S 168.27E 0 4.2,3.9 ¶17190373
ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=20.1km az=141.0.
IDC I 17 12 09 04.1–2.3 21.30S 168.56E 31–5 4.0,3.9

¶17190405
IDC Error ellipse: s-maj=115.9km s-min=22.2km az=159.0.
IDC I 17 14 08 57.0–4.2 20.94S 168.10E 0 4.2,3.9b

¶17190412
IDC Error ellipse: s-maj=121.3km s-min=29.5km az=133.0.
ISC I 17 14 47 39.4–2.9 21.5S–.50 168.5E–.50 20 4.1b 8 18-146
IDC I 17 14 47 36.7–3.5 21.34S 168.44E 0 4.1,3.9 ¶16009124
NEIC I 17 14 47 41.8–1.6 21.44S 168.45E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=138.1km s-min=40.0km az=153.0.
NEIC Event type se. Error ellipse: s-maj=55.4km s-min=17.9km az=136.0.
ISC I 17 20 56 34.4–1.4 21.1S–.40 168.8E–.20 25 4.0b 20 2-165
IDC I 17 20 56 30.4–1.8 21.06S 168.80E 0 4.3,4.1 ¶17190425
ISCJB I 17 20 56 32.4–1.9 21.2S–.50 168.9E–.30 25 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC I 18 05 01 30.5–1.2 21.0S–.30 168.7E–.20 30 4.3b 26 2-148
NEIC I 18 05 01 26.9–1.1 20.96S 168.76E 10 4.3b ¶16151721
ISCJB I 18 05 01 29.0–1.3 20.9S–.20 168.6E–.20 30 4.2b,3.4s
IDC I 18 05 01 31.9–1.2 20.99S 168.61E 38–4 4.3,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=44.0km s-min=13.7km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=39.8km s-min=9.9km az=140.6.
IDC Error ellipse: s-maj=45.3km s-min=15.4km az=151.0.
ISC I 18 06 06 21.8–1.2 21.1S–.30 168.8E–.20 25 4.3b,3.9s 23 2-165
NEIC I 18 06 06 18.9–1.0 21.07S 168.89E 10 4.2b,3.9s ¶16151726
ISCJB I 18 06 06 20.2–1.4 21.0S–.30 168.7E–.20 25 4.2b,3.9s
IDC I 18 06 06 23.4–1.2 21.05S 168.76E 37–4 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=41.3km s-min=13.2km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=48.0km s-min=10.0km az=144.1.
IDC Error ellipse: s-maj=47.8km s-min=15.2km az=151.0.
ISC I 18 06 21 17.8–.90 21.2S–.20 168.3E–.10 30 4.5b 30 2-149
NEIC I 18 06 21 14.4–.73 21.21S 168.48E 10 4.5b ¶16151731
ISCJB I 18 06 21 15.4–.96 21.3S–.10 168.6E–.10 30 4.4b
IDC I 18 06 21 17.6–1.0 21.19S 168.40E 27–3 4.4,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=12.6km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=22.9km s-min=10.8km az=141.6.
IDC Error ellipse: s-maj=29.8km s-min=16.8km az=143.0.
ISC I 18 08 11 30.2–1.7 20.5S–.50 168.5E–.30 26 4.0b 10 27-145
IDC I 18 08 11 26.2–1.9 20.55S 168.51E 0 4.2,4.1s ¶17190466
ISCJB I 18 08 11 28.6–1.6 20.5S–.40 168.4E–.30 26 4.2s,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC I 18 08 13 02.7–.72 21.0S–.20 168.6E–.10 30 4.1b 18 2-149
IDC I 18 08 12 58.3–.77 20.92S 168.67E 0 4.3,4.1 ¶17190467
ISCJB I 18 08 13 00.8–.70 20.9S–.20 168.7E–.10 30 4.1b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC I 18 08 51 44.8–2.2 20.66S 168.53E 0 4.0,3.7

¶17190471
IDC Error ellipse: s-maj=130.7km s-min=23.9km az=143.0.
ISC I 18 15 46 35.8–2.2 21.4S–.60 168.6E–.30 30 3.9b,3.3s 9 2-127
IDC I 18 15 46 32.5–2.0 20.92S 168.51E 0 4.1,3.8 ¶17190486
ISC Event type se.
IDC Error ellipse: s-maj=83.4km s-min=21.4km az=148.0.
ISC I 18 20 11 01.1–2.3 21.2S–.50 168.5E–.30 10 4.0b 10 2-146
IDC I 18 20 10 59.9–2.2 21.17S 168.46E 0 4.1,4.0 ¶16057184
NEIC I 18 20 11 00.0–1.6 21.20S 168.63E 10 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=77.5km s-min=23.4km az=144.0.
NEIC Event type se. Error ellipse: s-maj=61.1km s-min=17.1km az=147.0.
IDC I 19 04 56 27.9–10 20.38S 167.73E 0 3.8,3.7

¶17190527
IDC Error ellipse: s-maj=178.9km s-min=41.1km az=96.0.
IDC I 19 10 34 53.3–2.1 20.68S 168.30E 0 4.0,3.7

¶17190548
IDC Error ellipse: s-maj=88.6km s-min=25.2km az=144.0.
IDC I 19 12 33 11.5–3.2 20.88S 168.37E 0 4.2,4.0

¶17190558
IDC Error ellipse: s-maj=111.5km s-min=26.1km az=142.0.
IDC I 19 15 08 09.3–5.4 21.15S 168.28E 0 3.9,3.6

¶17190566
IDC Error ellipse: s-maj=170.8km s-min=31.4km az=140.0.
IDC I 19 22 09 03.3–3.7 20.47S 168.02E 0 4.0,3.8

¶17190580
IDC Error ellipse: s-maj=95.2km s-min=29.2km az=121.0.
IDC I 19 22 58 44.0–3.5 20.60S 168.76E 0 4.0,3.8

¶17190583
IDC Error ellipse: s-maj=113.7km s-min=28.7km az=140.0.
ISC I 20 18 28 39.8–2.0 21.1S–.40 168.4E–.40 35 4.4b 10 2-165
IDC I 20 18 28 34.9–1.9 21.20S 168.51E 0 4.5,4.3 ¶16151964
NEIC I 20 18 28 35.5–1.1 21.37S 168.67E 10 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=69.1km s-min=23.9km az=145.0.
NEIC Event type se. Error ellipse: s-maj=37.1km s-min=16.3km az=149.0.
ISC I 20 18 36 51.3–1.6 20.6S–.30 168.5E–.30 26 3.8b,3.5s 10 2-145
IDC I 20 18 36 47.5–1.9 20.54S 168.48E 0 4.1,3.9 ¶16151965
NEIC I 20 18 36 48.9–1.3 20.59S 168.49E 10 4.3b,3.9
ISCJB I 20 18 36 50.1–1.5 20.6S–.20 168.4E–.30 26 3.8b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 21 21 24 27.8–4.4 20.75S 168.13E 0 3.8,3.7b

¶17190701
IDC Error ellipse: s-maj=121.1km s-min=33.9km az=130.0.
IDC I 22 05 32 28.1–2.0 20.31S 168.19E 0 3.9,3.7

¶17190717
IDC Error ellipse: s-maj=70.7km s-min=27.6km az=140.0.
ISC I 22 12 17 39.5–1.6 20.9S–.40 168.5E–.30 30 3.9b 10 2-146
IDC I 22 12 17 35.2–1.8 20.80S 168.41E 0 4.1,3.9 ¶17190744
ISC Event type ke.
IDC Error ellipse: s-maj=69.8km s-min=20.1km az=143.0.
ISC I 22 17 49 57.8–1.6 21.0S–.40 168.4E–.30 26 3.9b 11 2-149
IDC I 22 17 49 54.7–1.6 20.65S 168.32E 0 4.3,4.0 ¶17190759
ISC Event type ke.
IDC Error ellipse: s-maj=65.1km s-min=19.6km az=142.0.
IDC I 22 17 50 58.4–1.7 20.09S 168.01E 0 4.2,3.9

¶17190760
IDC Error ellipse: s-maj=57.6km s-min=28.9km az=144.0.
ISC I 22 22 52 28.8–.92 20.8S–.10 167.8E–.10 35 3.9b 11 2-129
IDC I 22 22 52 24.9–5.9 20.57S 167.51E 0 4.3,4.0 ¶16152128
NEIC I 22 22 52 25.4–.56 20.85S 167.73E 10 4.0b,4.0
ISCJB I 22 22 52 26.9–.77 20.8S–.10 167.7E–.10 33 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 23 22 19 04.7–1.7 20.8S–.40 168.5E–.30 26 4.0b 8 2-149
IDC I 23 22 19 00.9–1.8 20.60S 168.48E 0 4.3,4.1b ¶17190836
ISC Event type ke.
IDC Error ellipse: s-maj=74.7km s-min=23.9km az=142.0.
ISC I 24 18 52 26.8–.63 20.6S–.10 168.4E–.10 26 4.2b,3.4s 24 2-165
IDC I 24 18 52 23.2–.80 20.52S 168.43E 0 4.4,4.2 ¶16135729
NEIC I 24 18 52 24.6–.47 20.59S 168.53E 10 4.7b,4.2
ISCJB I 24 18 52 25.3–.47 20.63S–.08 168.42E–.08 26 4.2b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 25 06 06 02.6–1.3 21.0S–.30 168.4E–.20 30 4.3b 16 2-165
IDC I 25 06 05 58.5–1.3 20.77S 168.42E 0 4.4,4.3b ¶16135763
NEIC I 25 06 05 60.0–.94 20.76S 168.43E 10 4.3b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=48.0km s-min=17.9km az=141.0.
NEIC Event type se. Error ellipse: s-maj=33.5km s-min=12.4km az=146.0.
ISC I 25 07 18 40.7–1.4 20.6S–.30 168.2E–.30 32 3.8b 10 2-92
IDC I 25 07 18 36.1–1.5 20.45S 168.15E 0 4.2,4.1 ¶17190948
ISCJB I 25 07 18 39.7–1.2 20.5S–.20 168.0E–.20 32 4.0b,3.4s
ISC Event type ke.

ISCJB Event type ke.
ISC I 25 08 30 07.8–.46 20.57S–.07 168.31E–.07 35–2 5.0b,4.0s 242 2-165
NEIC I 25 08 30 04.1–.17 20.43S 168.32E 10 5.1b,4.0s ¶15963199
GCMT I 25 08 30 04.1–.40 20.55S 168.29E 22–1 4.9W,4.0s
BJI I 25 08 30 05.0 20.31S 168.59E 30 5.1b,5.1s
ISCJB I 25 08 30 06.2–.17 20.52S–.04 168.30E–.04 35 5.0b,4.0s
MOS I 25 08 30 06.1–1.0 20.53S 168.30E 33 5.2b,4.0s
IDC I 25 08 30 07.8–.74 20.55S 168.31E 36–4 4.6,4.6
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=117.0.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c34; s68,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.79±.23 $M_{\theta\theta}$0.51±.14; $M_{\phi\phi}$2.29±.15; $M_{r\theta}$0.02±.29; $M_{\theta\phi}$-0.09±.12; $M_{\phi r}$0.53±.22; Best double couple: NP1:ϕ_s178.00000°,δ51.00000°,λ-89.00000°. NP2:ϕ_s356.00000°,δ39.00000°,λ-91.00000°. Principal axes: T 2.3490,Plg6.0000°,Azm267.0000°; N 0.5030,Plg1.0000°,Azm357.0000°; P -2.8440,Plg84.0000°,Azm94.0000° $M_0$2.59600×10^{16}
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.3km az=141.6.
MOS Error ellipse: s-maj=12.4km s-min=10.6km az=164.8.
IDC Error ellipse: s-maj=18.5km s-min=13.7km az=124.0.
ISC I 26 00 19 56.9–1.8 21.0S–.40 168.5E–.30 26 4.0b 15 2-149
IDC I 26 00 19 54.1–1.6 20.69S 168.42E 0 4.3,4.1 ¶17190997
ISC Event type ke.
IDC Error ellipse: s-maj=70.7km s-min=20.6km az=146.0.
ISC I 26 05 32 46.4–1.7 20.9S–.30 168.6E–.30 26 4.1b,3.4s 12 2-146
IDC I 26 05 32 43.4–1.6 20.62S 168.56E 0 4.2,4.1 ¶17191008
ISC Event type ke.
IDC Error ellipse: s-maj=59.3km s-min=18.2km az=143.0.
IDC I 26 05 50 34.8–1.9 20.34S 168.27E 0 3.8,3.6
¶17191009
IDC Error ellipse: s-maj=81.1km s-min=28.6km az=149.0.
IDC I 26 23 00 44.9–1.8 20.85S 168.34E 0 4.3,4.0
¶17191065
IDC Error ellipse: s-maj=76.0km s-min=22.1km az=146.0.
ISC I 27 06 50 26.3–1.8 21.1S–.40 168.6E–.30 30 4.1b 10 2-92
IDC I 27 06 50 21.9–1.9 21.01S 168.62E 0 4.3,4.1 ¶17191084
ISCJB I 27 06 50 25.3–1.5 21.0S–.30 168.5E–.30 30 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 00 33 56.5–1.3 21.2S–.30 168.6E–.20 30 4.0b 12 2-146
IDC I 29 00 33 53.4–2.1 20.85S 168.59E 0 4.1,3.8 ¶16136081
NEIC I 29 00 33 54.8–.59 20.87S 168.60E 10 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=98.7km s-min=22.1km az=147.0.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=8.4km az=156.0.
IDC I 29 02 24 01.5–2.0 20.47S 168.51E 0 4.0,3.8
¶17191227
IDC Error ellipse: s-maj=87.3km s-min=29.9km az=147.0.
IDC I 29 02 39 36.3–3.8 20.48S 168.07E 0 3.9,3.8b
¶17191228
IDC Error ellipse: s-maj=97.6km s-min=33.3km az=122.0.
ISC I 29 06 44 28.5–1.6 20.6S–.30 168.4E–.30 26 3.7b 7 2-92
IDC I 29 06 44 24.9–1.8 20.44S 168.35E 0 3.9,3.7 ¶17191240
ISCJB I 29 06 44 27.5–1.4 20.5S–.30 168.3E–.30 26 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC I 29 14 01 54.0–2.0 20.31S 168.20E 0 3.9,3.7
¶17191258
IDC Error ellipse: s-maj=74.1km s-min=30.3km az=145.0.
ISC I 29 15 02 05.0–1.1 20.5S–.10 168.3E–.20 26 4.0b,3.3s 13 2-145
IDC I 29 15 02 00.9–1.4 20.51S 168.50E 0 4.2,4.0 ¶17191260
ISCJB I 29 15 02 03.7–1.1 20.5S–.10 168.3E–.20 26 3.9b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 15 20 49.9–2.1 21.0S–.50 168.8E–.40 25 3.6b 8 2-146
IDC I 29 15 20 46.5–2.5 20.88S 168.78E 0 3.9,3.7 ¶17191261
ISCJB I 29 15 20 48.9–1.8 20.9S–.40 168.7E–.30 25 3.5b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 07 49 10.1–1.6 21.0S–.40 168.7E–.30 30 4.0b 13 2-146
ISCJB I 30 07 49 07.6–1.5 21.0S–.40 168.7E–.30 30 4.3s,3.9b ¶17191303
IDC I 30 07 49 11.0–1.7 20.93S 168.63E 38–6 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=68.8km s-min=11.0km az=145.4.
IDC Error ellipse: s-maj=66.3km s-min=18.4km az=144.0.
ISC I 30 11 28 45.7–1.7 21.0S–.40 168.7E–.30 30 4.0b 10 2-149
IDC I 30 11 28 41.5–1.9 20.89S 168.69E 0 4.1,3.9 ¶17191321
ISCJB I 30 11 28 44.6–1.6 20.8S–.30 168.6E–.30 30 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 31 22 50 17.5–5.8 20.38S 167.55E 0 4.3,4.1b
¶17191441
IDC Error ellipse: s-maj=118.7km s-min=31.1km az=101.0.
ISC II 01 05 54 32.8–1.7 21.0S–.50 168.7E–.30 25 4.0b 14 2-149
IDC II 01 05 54 29.2–1.9 20.96S 168.80E 0 4.2,4.0 ¶17191458
ISCJB II 01 05 54 31.5–1.5 21.0S–.40 168.7E–.30 25 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 05 58 53.2–.90 21.1S–.20 168.8E–.10 25 4.3b 18 2-146
IDC II 01 05 58 49.0–1.6 21.15S 168.88E 0 4.4,4.2 ¶17191459
ISCJB II 01 05 58 52.0–.70 21.0S–.10 168.7E–.10 25 4.1b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC II 02 21 29 35.0–7.4 20.47S 168.20E 0 3.9,3.7b
¶17191558
IDC Error ellipse: s-maj=168.2km s-min=35.1km az=118.0.
ISC II 03 15 28 25.8–1.8 20.8S–.30 168.4E–.30 26 3.9b 8 2-90
IDC II 03 15 28 22.6–2.0 20.45S 168.32E 0 4.2,4.0b ¶17191599
ISC Event type ke.
IDC Error ellipse: s-maj=63.6km s-min=23.7km az=136.0.
ISC II 06 16 47 32.1–.36 20.43S–.06 168.27E–.06 29–1 5.1b,4.0s 350 2-160
IDC II 06 16 47 27.8–.62 20.36S 168.31E 0 4.7,4.6 ¶16007702
ISCJB II 06 16 47 30.1–3.6 20.44S–.07 168.34E–.04 25–25 5.0b,4.1s
BJI II 06 16 47 30.4 20.40S 168.72E 34 5.2b,5.2s
MOS II 06 16 47 31.7–1.1 20.36S 168.29E 33 5.1b,5.2s
NEIC II 06 16 47 33.4–.16 20.41S 168.30E 39 5.2b,5.2s
GCMT II 06 16 47 33.4–.30 20.70S 168.18E 20–0 5.1W,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=15.9km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.5km az=1.9.
MOS Error ellipse: s-maj=11.4km s-min=10.8km az=168.8.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=156.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c37; s75,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.88±.20 $M_{\theta\theta}$0.54±.13; $M_{\phi\phi}$3.34±.13; $M_{r\theta}$-3.50±.34; $M_{\theta\phi}$-0.72±.10; $M_{\phi r}$2.25±.24; Best double couple: NP1:ϕ_s138.00000°,δ70.00000°,λ-107.00000°. NP2:ϕ_s359.00000°,δ26.00000°,λ-51.00000°. Principal axes: T 4.8320,Plg23.0000°,Azm241.0000°; N 1.2680,Plg16.0000°,Azm144.0000°; P -6.0990,Plg61.0000°,Azm22.0000° $M_0$5.46600×10^{16}
ISC II 06 16 54 25.2–1.4 20.7S–.30 168.5E–.20 26 4.0b 15 2-149
IDC II 06 16 54 21.5–1.4 20.64S 168.50E 0 4.3,4.2L ¶17191806
ISCJB II 06 16 54 24.1–1.3 20.6S–.20 168.4E–.20 26 4.0b,4.2L
ISC Event type ke.
ISCJB Event type ke.
IDC II 06 17 59 35.4–2.0 20.78S 168.51E 0 4.0,3.7
¶17191814
IDC Error ellipse: s-maj=86.7km s-min=24.6km az=149.0.
IDC II 07 16 44 16.0–2.2 20.48S 168.67E 0 4.0,3.9L
¶17191866
IDC Error ellipse: s-maj=85.2km s-min=30.2km az=149.0.
IDC II 11 22 34 11.0–2.1 20.55S 168.44E 0 3.9,3.7
¶17192091
IDC Error ellipse: s-maj=84.1km s-min=29.3km az=145.0.
IDC II 15 22 43 34.8–3.5 20.60S 167.94E 0 4.2,4.1b
¶17192328
IDC Error ellipse: s-maj=87.5km s-min=34.9km az=122.0.
ISC II 16 02 24 12.5–.65 20.9S–.10 168.4E–.10 30 4.4b 32 2-165
IDC II 16 02 24 08.2–.88 20.85S 168.31E 0 4.6,4.5 ¶16398310
ISCJB II 16 02 24 11.0–.64 20.87S–.08 168.34E–.09 30 4.4b,4.5
NEIC II 16 02 24 13.1–.50 20.88S 168.40E 35 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=19.2km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.7km az=41.8.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=11.6km az=164.0.
IDC II 16 02 27 39.6–3.4 20.52S 168.00E 0 4.1,4.0b
¶17192336
IDC Error ellipse: s-maj=97.3km s-min=33.2km az=127.0.
IDC II 20 06 05 49.4–3.3 20.26S 168.98E 0 4.0,4.0
¶17192571
IDC Error ellipse: s-maj=103.2km s-min=27.0km az=138.0.
ISC II 21 05 58 17.0–1.6 20.9S–.40 168.4E–.30 30 3.9b 8 2-146
IDC II 21 05 58 12.6–1.7 20.81S 168.48E 0 4.2,3.9 ¶17192618
ISCJB II 21 05 58 15.9–1.2 20.8S–.30 168.4E–.20 30 3.9b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC II 22 00 59 44.9–1.6 20.8S–.30 168.4E–.30 35 4.2b 12 2-148
IDC II 22 00 59 39.4–1.7 20.83S 168.53E 0 4.4,4.3 ¶17192667
ISCJB II 22 00 59 43.3–1.5 20.7S–.20 168.4E–.20 33 4.1b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC II 22 02 37 30.8–.50 21.12S–.07 167.77E–.08 35 4.8s,4.8b 103 2-165
IDC II 22 02 37 19.5–.85 20.59S 168.35E 0 4.5,4.4 ¶16057293
NEIC II 22 02 37 21.9–.47 20.51S 168.19E 10 4.7b,4.4
ISCJB II 22 02 37 28.9–.26 21.18S–.06 167.61E–.05 33 4.7b,4.6s
BJI II 22 02 37 29.6 21.20S 167.60E 35 5.4b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=18.3km az=139.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=9.8km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=166.7.
IDC II 22 03 30 38.4–1.9 20.47S 167.57E 0 4.2,3.8
¶17192669
IDC Error ellipse: s-maj=52.8km s-min=26.9km az=132.0.
IDC II 22 04 25 43.3–2.0 20.49S 168.35E 0 4.3,4.0b
¶17192674
IDC Error ellipse: s-maj=91.7km s-min=28.5km az=148.0.
IDC II 22 08 20 05.6–1.9 20.60S 168.27E 0 4.1,3.8
¶17192687
IDC Error ellipse: s-maj=80.9km s-min=25.1km az=145.0.
ISC II 22 08 24 39.5–.49 20.66S–.07 168.35E–.08 26 4.8b,3.9s 77 2-165
BJI II 22 08 24 36.5 20.40S 168.30E 10 4.9b,4.8s ¶16168906
NEIC II 22 08 24 37.3–.24 20.41S 168.34E 10 4.9b,4.8s
ISCJB II 22 08 24 38.2–.30 20.52S–.05 168.27E–.06 26 4.8b,3.9s
IDC II 22 08 24 39.7–.70 20.63S 168.31E 28–3 4.5,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=7.1km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.6km az=36.9.
IDC Error ellipse: s-maj=21.5km s-min=12.5km az=143.0.
ISC II 24 23 10 17.2–.88 20.5S–.10 168.3E–.10 32 4.1b 14 2-145
IDC II 24 23 10 13.3–3.3 20.27S 168.19E 0 4.2,4.0 ¶16363017
NEIC II 24 23 10 15.0–.64 20.34S 168.15E 10 4.2b,4.0
ISCJB II 24 23 10 16.3–.71 20.38S–.08 168.19E–.10 32 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 25 23 22 05.7–.91 20.9S–.20 168.5E–.10 30 4.3b 21 2-146
IDC II 25 23 22 01.4–1.6 20.78S 168.54E 0 4.2,4.0 ¶16363028
NEIC II 25 23 22 02.9–.48 20.80S 168.53E 10 4.5b,4.0
ISCJB II 25 23 22 04.0–.66 20.9S–.20 168.5E–.10 30 4.3b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 26 01 03 44.3–.49 20.57S–.07 168.47E–.07 26–2 5.0b,3.8s 220 2-165
IDC II 26 01 03 40.2–.57 20.56S 168.48E 0 4.7,4.6 ¶16158982
ISCJB II 26 01 03 44.2–1.5 20.56S–.07 168.38E–.05 34–13 5.0b,3.9s
MOS II 26 01 03 44.1–1.1 20.43S 168.40E 31 5.2b,3.9s
BJI II 26 01 03 44.0 20.25S 169.27E 15 5.2b,5.1s
NEIC II 26 01 03 46.2–.20 20.49S 168.41E 36 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=15.4km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=7.0km az=172.2.
MOS Error ellipse: s-maj=11.1km s-min=9.7km az=169.3.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.2km az=160.0.
IDC II 27 00 36 46.2–3.5 20.57S 168.02E 0 3.8,3.7b
¶17192926
IDC Error ellipse: s-maj=100.2km s-min=27.5km az=126.0.
ISC II 27 18 39 40.8–1.6 20.6S–.30 168.5E–.30 26 3.7b 8 2-92
IDC II 27 18 39 37.0–1.7 20.49S 168.44E 0 4.0,3.8 ¶17192964
ISCJB II 27 18 39 39.8–1.3 20.5S–.20 168.3E–.30 26 3.6b,2.9s
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 08 45 45.2–2.8 20.86S 168.66E 0 3.9,3.6
¶17196974
IDC Error ellipse: s-maj=130.5km s-min=32.7km az=157.0.
ISC III 19 12 10 58.3–1.5 20.0S–.20 168.2E–.20 27 3.8b 7 3-145
IDC III 19 12 10 55.4–1.2 19.37S 167.92E 0 4.1,3.8b ¶16479448
ISC Event type ke.
IDC Error ellipse: s-maj=58.5km s-min=24.9km az=148.0.
IDC IV 01 11 05 51.4–9.8 21.52S 167.82E 0 3.6,3.5
¶17199410
IDC Error ellipse: s-maj=283.9km s-min=58.2km az=139.0.
ISC IV 08 22 56 22.2–1.5 20.3S–.20 168.8E–.20 31 4.3b,3.9s 14 3-98
NEIC IV 08 22 56 24.1–.63 19.86S 167.89E 10 4.4b,3.9s ¶16509628
IDC IV 08 22 56 27.7–3.4 20.66S 168.79E 89–31 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=12.2km az=153.0.
IDC Error ellipse: s-maj=56.8km s-min=25.8km az=154.0.
ISC IV 13 15 11 41.4–.72 20.9S–.20 168.4E–.10 30 4.1b,3.4s 16 2-146
IDC IV 13 15 11 36.7–1.6 20.86S 168.49E 0 4.2,4.0 ¶16529589
ISCJB IV 13 15 11 39.6–.65 20.9S–.10 168.4E–.10 30 4.0b,3.4s
NEIC IV 13 15 11 42.1–.52 20.90S 168.41E 35 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=60.6km s-min=20.5km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=23.8km s-min=8.4km az=148.8.
NEIC Event type se. Error ellipse: s-maj=22.3km s-min=9.7km az=155.0.
IDC IV 26 23 19 43.5–2.0 20.29S 168.31E 0 4.2,3.9b
¶17202195
IDC Error ellipse: s-maj=81.3km s-min=30.7km az=148.0.
ISC V 05 01 49 28.1–.84 20.8S–.20 168.5E–.20 30 4.1b,3.2s 22 2-146
IDC V 05 01 49 23.1–1.4 20.76S 168.59E 0 4.3,4.2 ¶17202807
ISCJB V 05 01 49 26.6–.69 20.7S–.10 168.4E–.10 30 4.1b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC V 05 16 07 39.7–9.9 20.32S 167.77E 0 4.0,3.8
¶17202865
IDC Error ellipse: s-maj=174.8km s-min=40.7km az=96.0.
ISC V 06 13 40 39.9–.88 21.6S–.20 168.6E–.10 20 3.9b,3.3s 16 2-146
IDC V 06 13 40 37.0–1.8 21.55S 168.60E 0 4.2,4.1L ¶17202923
ISCJB V 06 13 40 38.6–.67 21.5S–.20 168.62E–.09 20 4.0b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC V 07 06 30 36.9–.84 20.8S–.20 168.4E–.10 30 4.2b,3.4s 17 2-145
NEIC V 07 06 30 33.6–.74 20.72S 168.39E 10 4.4b,3.4s ¶16578051

ISCJB V 07 06 30 34.9–.82 20.8S–.10 168.4E–.10 30 4.0b,3.5s
IDC V 07 06 30 37.3–1.5 21.05S 168.50E 39–6 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=15.0km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=20.6km s-min=11.0km az=145.3.
IDC Error ellipse: s-maj=79.8km s-min=15.6km az=152.0.
ISC V 10 08 55 12.5–.36 20.34S–.03 168.28E–.03 33–1 6.8s,6.4b 2331 2-167
IDC V 10 08 55 07.1–.28 20.31S 168.27E 0 6.7,6.7s **¶16502541**
GCMT V 10 08 55 08.9–.00 20.29S 168.15E 18–0 6.8W,6.7s
NEIC V 10 08 55 08.9–.09 20.24S 168.23E 11 6.8,6.8W
ISCJB V 10 08 55 09.8–1.3 20.27S–.02 168.26E–.02 25–8 6.8s,6.4b
NEIC V 10 08 55 09.0–.00 20.25S 167.87E 15 6.8s,6.4b
BJI V 10 08 55 10.0 20.20S 168.20E 20 6.9b,6.9s
MOS V 10 08 55 10.7–1.1 20.32S 168.21E 33 6.8s,6.6b
ISC Event type fe.
IDC Error ellipse: s-maj=11.3km s-min=9.7km az=53.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c357; s144,c674;Duration: 6s1 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.71±.01 $M_{\theta\theta}$-0.17±.01; $M_{\phi\phi}$1.88±.01; $M_{r\theta}$-0.34±.02; $M_{\theta\phi}$-0.66±.01; $M_{\phi r}$0.21±.02; Best double couple: NP1:ϕ_s153.00000°,δ50.00000°,λ-104.00000°. NP2:ϕ_s354.00000° ,δ42.00000°,λ-74.00000°. Principal axes: T 2.0980,Plg4.0000°,Azm253.0000° ; N -0.3170,Plg11.0000°,Azm162.0000°; P -1.7830,Plg78.0000°,Azm6.0000° $M_0$1.94100×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=141.0. Felt at Tadine and We. Felt [II] at Dumbea and Noumea, New Caledonia. Also felt at Bourail, Mont-Dore and Yate. Felt [II] at Port-Vila, Vanuatu. Also felt at Isangel. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.90000×10^{19} Moment Tensor Solution. s30 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.78 $M_{\theta\theta}$-0.34 $M_{\phi\phi}$1.13 $M_{r\theta}$0.07 $M_{\theta\phi}$-0.40 $M_{\phi r}$-0.51 Best double couple: NP1:ϕ_s352.00000° ,δ59.00000°,λ-82.00000°. NP2:ϕ_s157.00000°,δ32.00000°,λ-102.00000°. Principal axes: T 1.3500,Plg14.0000°,Azm76.0000°; N -0.4400,Plg7.0000°,Azm168.0000° ; P -0.9100,Plg75.0000°,Azm283.0000° $M_0$1.20000×10^{19}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=19.5.
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.70 $M_{\theta\theta}$-0.27 $M_{\phi\phi}$1.96 $M_{r\theta}$-0.10 $M_{\theta\phi}$-0.66 $M_{\phi r}$-0.10 Best double couple: NP1:ϕ_s350.00000° ,δ46.00000°,λ-82.00000°. NP2:ϕ_s159.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 2.1400,Plg1.0000°,Azm74.0000°; N -0.4300,Plg5.0000°,Azm164.0000° ; P -1.7100,Plg84.0000°,Azm333.0000° $M_0$2.00000×10^{19}
MOS Error ellipse: s-maj=6.6km s-min=6.0km az=90.6.
IDC V 10 09 02 29.4–10.0 20.29S 167.83E 0 4.9,4.7
¶17203196
IDC Error ellipse: s-maj=178.1km s-min=42.5km az=97.0.
ISC V 10 09 07 52.6–1.6 20.2S–.20 168.2E–.20 27 4.6b 7 2-90
IDC V 10 09 07 48.4–1.7 20.25S 168.22E 0 4.5,4.3 **¶17203198**
ISCJB V 10 09 07 51.4–1.5 20.1S–.10 168.0E–.20 27 4.6b,4.3
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 09 14 03.2–10 20.08S 168.89E 0 4.2,4.1
¶17203201
IDC Error ellipse: s-maj=175.2km s-min=70.2km az=88.0.
IDC V 10 09 16 09.5–10 20.31S 167.76E 0 4.3,4.1
¶17203202
IDC Error ellipse: s-maj=180.8km s-min=41.9km az=96.0.
IDC V 10 09 19 48.4–6.9 20.07S 168.68E 0 4.1,4.0
¶17203203
IDC Error ellipse: s-maj=118.8km s-min=49.7km az=105.0.
ISC V 10 09 22 17.8–.59 20.1S–.10 168.17E–.10 27 4.5b 26 10-165
IDC V 10 09 22 13.6–.89 20.19S 168.21E 0 4.7,4.5 **¶17203206**
ISCJB V 10 09 22 16.0–.50 20.13S–.09 168.16E–.08 27 4.4b,4.5
NEIC V 10 09 22 15.3–.40 20.13S 168.20E 10 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=17.5km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=9.9km az=153.5.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.0km az=158.0.
ISC V 10 09 23 36.4–.54 20.40S–.08 168.23E–.09 26 4.7b 42 2-165
IDC V 10 09 23 32.3–.80 20.38S 168.23E 0 4.6,4.5 **¶16709359**
NEIC V 10 09 23 33.9–.39 20.42S 168.29E 10 5.0b,4.5
ISCJB V 10 09 23 35.0–.34 20.39S–.07 168.20E–.07 26 4.7b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 09 25 06.5–.85 20.18S–.08 167.1E–.10 35 4.2b 15 2-102
IDC V 10 09 25 01.4–.96 20.19S 167.12E 0 5.5,5.5s **¶16709360**
NEIC V 10 09 25 03.1–.80 20.22S 167.14E 10 4.4b,5.5s
ISCJB V 10 09 25 04.6–.73 20.12S–.07 167.1E–.10 33 5.5s,4.3b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 09 29 18.0–1.8 20.20S 168.23E 0 4.3,4.0
¶17203210
IDC Error ellipse: s-maj=61.5km s-min=25.6km az=146.0.
ISC V 10 09 30 20.4–.77 20.4S–.10 168.4E–.10 26 4.5b 26 2-165
IDC V 10 09 30 16.8–.86 20.33S 168.31E 0 4.6,4.4 **¶16709366**
NEIC V 10 09 30 18.7–.59 20.29S 168.30E 10 4.7b,4.4
ISCJB V 10 09 30 19.5–.66 20.27S–.09 168.2E–.10 26 4.4b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 09 37 36.1–.59 20.36S–.09 168.2E–.10 32 4.6b 32 2-165
IDC V 10 09 37 31.3–.68 20.25S 168.23E 0 4.5,4.3 **¶16709368**
NEIC V 10 09 37 32.9–.37 20.28S 168.23E 10 4.8b,4.3
ISCJB V 10 09 37 34.6–.42 20.35S–.07 168.18E–.08 32 4.5b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 09 39 24.0–1.1 20.3S–.20 168.2E–.20 27 4.4b 16 2-145
IDC V 10 09 39 20.4–1.4 20.22S 168.17E 0 4.4,4.2 **¶16709369**
NEIC V 10 09 39 21.6–.86 20.23S 168.23E 10 4.5b,4.2
ISCJB V 10 09 39 22.5–.97 20.3S–.10 168.2E–.20 27 4.3b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 09 41 16.2–.79 20.6S–.10 168.5E–.10 26 4.4b 15 2-165
IDC V 10 09 41 12.6–1.6 20.48S 168.45E 0 4.3,4.1 **¶16709370**
NEIC V 10 09 41 13.7–.49 20.59S 168.54E 10 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=55.8km s-min=20.1km az=141.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=10.6km az=143.0.
ISC V 10 09 48 16.1–.95 20.2S–.10 168.1E–.10 27 4.3b 12 2-98
IDC V 10 09 48 11.9–1.0 20.13S 168.11E 0 4.4,4.2 **¶16709373**
NEIC V 10 09 48 13.6–.65 20.12S 168.08E 10 4.6b,4.2
ISCJB V 10 09 48 14.5–.72 20.19S–.10 168.1E–.10 27 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 09 48 35.3–1.8 20.05S 168.09E 0 4.5,4.3
¶16709379
IDC Error ellipse: s-maj=100.8km s-min=26.1km az=155.0.
ISC V 10 09 49 14.6–.59 20.3S–.10 168.27E–.08 27 4.3b 24 2-145
IDC V 10 09 49 10.3–1.4 20.23S 168.26E 0 4.4,4.2 **¶17203214**
ISCJB V 10 09 49 12.7–.58 20.31S–.09 168.27E–.09 27 4.3b,4.2
NEIC V 10 09 49 12.3–.63 20.20S 168.23E 10 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=43.3km s-min=19.4km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=8.1km az=139.7.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=12.2km az=156.0.
IDC V 10 09 51 25.3–8.1 20.30S 167.88E 0 4.2,4.1
¶17203217
IDC Error ellipse: s-maj=132.9km s-min=42.1km az=95.0.
IDC V 10 09 55 00.2–1.7 20.25S 167.52E 0 4.3,4.1b
¶17203218

IDC Error ellipse: s-maj=48.3km s-min=25.2km az=133.0.
ISC V 10 09 56 52.7–.55 20.37S–.08 168.28E–.09 26 4.7b 35 2-165
IDC V 10 09 56 48.5–.68 20.38S 168.33E 0 4.6,4.5 **¶16709383**
ISCJB V 10 09 56 50.9–.43 20.33S–.06 168.24E–.07 26 4.6b,4.5
NEIC V 10 09 56 50.3–.41 20.31S 168.31E 10 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=16.0km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=7.6km az=33.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=9.6km az=155.0.
IDC V 10 10 07 18.9–10 20.28S 167.65E 0 4.0,3.9
¶17203220
IDC Error ellipse: s-maj=184.3km s-min=40.1km az=93.0.
IDC V 10 10 07 27.3–39 20.19S 167.83E 0 4.0,3.9b
¶17203223
IDC Error ellipse: s-maj=657.7km s-min=57.3km az=84.0.
ISC V 10 10 09 30.4–.78 20.3S–.10 168.1E–.10 32 4.0b 16 2-165
ISCJB V 10 10 09 29.1–.81 20.29S–.10 168.1E–.10 32 3.9b **¶17203227**
IDC V 10 10 09 31.8–.79 20.32S 168.12E 37–6 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=10.9km az=41.9.
IDC Error ellipse: s-maj=25.0km s-min=15.3km az=151.0.
IDC V 10 10 10 53.5–34 20.06S 167.88E 0 4.2,4.0
¶17203232
IDC Error ellipse: s-maj=595.0km s-min=51.8km az=84.0.
ISC V 10 10 14 23.3–.41 20.35S–.06 168.20E–.07 32 4.8b 84 2-165
NEIC V 10 10 14 20.1–.34 20.25S 168.20E 10 4.8b **¶16502621**
ISCJB V 10 10 14 21.6–.31 20.31S–.04 168.17E–.05 32 4.9s,4.8b
IDC V 10 10 14 23.9–.78 20.32S 168.20E 39–5 4.6,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=8.2km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.7km az=161.1.
IDC Error ellipse: s-maj=17.1km s-min=14.6km az=128.0.
ISC V 10 10 22 53.7–.64 20.36S–.10 168.2E–.10 26 4.5b 32 2-165
ISCJB V 10 10 22 52.0–.51 20.35S–.07 168.12E–.09 26 4.8s,4.4b **¶16709400**
NEIC V 10 10 22 51.1–.43 20.27S 168.18E 10 4.7b,4.4b
IDC V 10 10 22 54.2–1.1 20.33S 168.18E 29–5 4.8,4.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=8.2km az=31.3.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=10.2km az=120.0.
IDC Error ellipse: s-maj=21.9km s-min=16.5km az=110.0.
ISC V 10 10 24 21.2–.36 20.31S–.04 168.43E–.04 34–1 5.8s,5.6b 873 3-166
NEIC V 10 10 24 17.5–.09 20.27S 168.40E 10 5.8s,5.7b **¶16709401**
GCMT V 10 10 24 17.5–.40 20.51S 168.39E 22–1 5.9W,5.7b
ISCJB V 10 10 24 18.3–1.8 20.28S–.03 168.36E–.02 23–13 5.8s,5.5b
MOS V 10 10 24 19.0–.98 20.37S 168.38E 33 5.9s,5.7b
IDC V 10 10 24 22.0–.44 20.38S 168.36E 40–3 5.3,5.3s
BJI V 10 10 24 21.9 19.76S 168.42E 33 5.9b,5.8s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.8km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s36,c44; s81,c111;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.03±.06 $M_{\theta\theta}$0.24±.04; $M_{\phi\phi}$0.79±.04; $M_{r\theta}$-0.17±.07; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$-0.04±.06; Best double couple: NP1: ϕ_s356.00000°,δ46.00000°,λ-79.00000°. NP2:ϕ_s160.00000°,δ45.00000°,λ-101.00000°. Principal axes: T 0.8220,Plg0.0000°,Azm78.0000°; N 0.2360,Plg8.0000°,Azm168.0000° ; P -1.0550,Plg82.0000°,Azm347.0000° $M_0$0.93800×10^{18}
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=15.8.
MOS Error ellipse: s-maj=10.5km s-min=8.4km az=36.8.
IDC Error ellipse: s-maj=12.2km s-min=11.0km az=120.0.
ISC V 10 10 31 13.5–.65 20.4S–.10 168.5E–.10 26 4.3b 22 2-148
IDC V 10 10 31 09.7–.91 20.29S 168.44E 0 4.4,4.2 **¶16709405**
ISCJB V 10 10 31 11.7–.50 20.41S–.08 168.44E–.08 26 4.4b,4.2
NEIC V 10 10 31 11.1–.43 20.32S 168.47E 10 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=27.5km s-min=21.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=8.2km az=139.5.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=9.8km az=150.0.
ISC V 10 10 35 14.2–.46 20.34S–.07 168.29E–.07 26 4.5b 73 2-165
NEIC V 10 10 35 11.9–.34 20.23S 168.32E 10 5.1b **¶17203235**
ISCJB V 10 10 35 12.5–.25 20.33S–.05 168.32E–.05 26 4.7b
IDC V 10 10 35 15.8–.80 20.33S 168.26E 36–5 4.4,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=9.1km az=179.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.9km az=146.5.
IDC Error ellipse: s-maj=19.2km s-min=13.6km az=138.0.
ISC V 10 10 37 15.4–.29 20.34S–.06 168.33E–.05 39–3 5.2b 465 2-165
IDC V 10 10 37 09.2–.46 20.32S 168.47E 0 4.9,4.9 **¶16502624**
NEIC V 10 10 37 11.2–.12 20.24S 168.35E 10 5.3b,4.9
ISCJB V 10 10 37 12.7–2.1 20.28S–.04 168.31E–.03 29–15 5.2b,5.0s
MOS V 10 10 37 12.7–.97 20.38S 168.35E 33 5.4b,5.0s
BJI V 10 10 37 13.8 19.97S 168.56E 34 5.6b,5.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=12.8km az=128.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.5km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=3.8.
MOS Error ellipse: s-maj=14.4km s-min=10.3km az=173.3.
ISC V 10 10 41 01.5–.77 20.2S–.10 168.2E–.10 27 4.5b 17 2-148
IDC V 10 10 40 57.5–1.1 20.07S 168.23E 0 4.5,4.3 **¶16709409**
NEIC V 10 10 40 58.9–.68 20.14S 168.23E 10 4.6b,4.3
ISCJB V 10 10 41 00.0–.63 20.25S–.09 168.23E–.09 27 4.5b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 10 44 10.5–.45 20.31S–.05 168.40E–.05 29–2 5.4b,5.1s 583 3-165
NEIC V 10 10 44 07.4–.13 20.31S 168.45E 10 5.5b,5.1s **¶16502625**
ISCJB V 10 10 44 08.6–2.7 20.28S–.04 168.40E–.03 15–17 5.3b,5.2s
MOS V 10 10 44 09.5–.93 20.29S 168.36E 33 5.4b,5.2s
IDC V 10 10 44 11.3–.56 20.40S 168.44E 37–4 5.0,5.0s
BJI V 10 10 44 14.4 19.47S 167.96E 35 5.7b,5.6s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=1.4.
MOS Error ellipse: s-maj=8.7km s-min=7.6km az=139.1.
IDC Error ellipse: s-maj=14.3km s-min=11.3km az=139.0.
IDC V 10 10 51 37.9–1.8 20.15S 168.32E 0 4.1,3.8
¶17203238
IDC Error ellipse: s-maj=77.4km s-min=29.0km az=146.0.
IDC V 10 11 00 46.4–16 20.28S 168.65E 0 3.8,3.7b
¶17203239
IDC Error ellipse: s-maj=287.6km s-min=72.1km az=97.0.
ISC V 10 11 03 20.1–.88 20.2S–.10 168.2E–.10 32 4.3b 22 2-102
NEIC V 10 11 03 16.7–.66 20.13S 168.23E 10 4.3b **¶16709415**
ISCJB V 10 11 03 18.7–.76 20.24S–.09 168.1E–.10 32 4.2b
IDC V 10 11 03 20.8–.99 20.19S 168.11E 34–6 4.3,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=11.6km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=10.3km az=37.3.
IDC Error ellipse: s-maj=32.2km s-min=17.5km az=149.0.
ISC V 10 11 10 00.0–.57 20.4S–.10 168.14E–.10 32 4.4b 28 2-165
IDC V 10 11 09 54.7–.83 20.41S 168.28E 0 4.6,4.6 **¶16709417**
NEIC V 10 11 09 56.9–.51 20.40S 168.18E 10 4.7b,4.6
ISCJB V 10 11 09 58.2–.49 20.41S–.08 168.18E–.08 32 4.6b,4.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 11 14 55.0–1.8 20.20S 168.24E 0 4.0,3.7
¶17203242
IDC Error ellipse: s-maj=77.0km s-min=29.1km az=148.0.
IDC V 10 11 26 18.8–1.9 20.09S 168.11E 0 4.1,3.9
¶17203245
IDC Error ellipse: s-maj=68.3km s-min=30.3km az=144.0.

ISC V 10 11 31 49.2–.41 20.27S–.06 168.33E–.05 31–2 5.1b 272 3-165
BJI V 10 11 31 45.1 20.20S 168.30E 10 5.5b,5.4s **¶16560959**
NEIC V 10 11 31 46.0–.17 20.17S 168.36E 10 5.2b,5.4s
ISCJB V 10 11 31 47.8–2.6 20.23S–.05 168.26E–.04 33–18 5.0b,5.0s
MOS V 10 11 31 48.3–1.2 20.13S 168.28E 33 5.3b,5.0s
IDC V 10 11 31 50.0–.59 20.28S 168.27E 38–3 4.5,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.8km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.6km az=168.1.
MOS Error ellipse: s-maj=11.4km s-min=10.3km az=149.0.
IDC Error ellipse: s-maj=16.5km s-min=12.5km az=138.0.
ISC V 10 11 33 15.4–.65 20.2S–.10 168.1E–.10 27 4.4b 20 2-102
NEIC V 10 11 33 12.9–.54 20.08S 168.15E 10 4.7b **¶17203248**
ISCJB V 10 11 33 13.6–.55 20.18S–.09 168.1E–.10 27 4.9s,4.5b
IDC V 10 11 33 16.5–.93 20.26S 168.29E 40–6 4.6,4.6s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=10.8km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=8.4km az=41.4.
IDC Error ellipse: s-maj=61.5km s-min=15.6km az=149.0.
IDC V 10 11 40 36.5–11 20.25S 167.51E 0 3.8,3.7b
¶17203249
IDC Error ellipse: s-maj=189.7km s-min=38.8km az=89.0.
ISC V 10 11 44 55.5–1.1 20.4S–.30 168.4E–.20 26 4.0b 13 2-145
ISCJB V 10 11 44 54.2–1.2 20.3S–.20 168.3E–.20 26 3.9b **¶17203250**
IDC V 10 11 44 57.0–1.3 20.32S 168.38E 38–7 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.9km s-min=11.2km az=41.0.
IDC Error ellipse: s-maj=53.8km s-min=17.4km az=147.0.
ISC V 10 11 50 50.0–1.3 20.3S–.30 168.3E–.30 25 3.9b 8 3-126
IDC V 10 11 50 46.4–1.5 20.04S 168.29E 0 4.3,4.0 **¶17203251**
ISCJB V 10 11 50 48.7–1.3 20.2S–.20 168.2E–.30 25 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 11 52 38.0–25 20.07S 168.01E 33–9 4.1,4.1
¶17203252
IDC Error ellipse: s-maj=420.6km s-min=52.1km az=83.0.
ISC V 10 12 00 32.2–.33 20.20S–.05 168.28E–.05 25 5.2b,4.8s 350 3-165
IDC V 10 12 00 27.2–.49 20.18S 168.35E 0 4.8s,4.7 **¶16503275**
NEIC V 10 12 00 29.8–.16 20.13S 168.26E 10 5.3b,4.7
ISCJB V 10 12 00 30.7–.14 20.13S–.03 168.29E–.03 25 5.0b,4.8s
BJI V 10 12 00 31.0 19.84S 168.60E 24 5.5b,5.3s
MOS V 10 12 00 32.5–1.3 20.10S 168.25E 33 5.4b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=12.8km az=114.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=147.5.
MOS Error ellipse: s-maj=11.2km s-min=9.4km az=151.9.
ISC V 10 12 02 35.4–.68 20.6S–.10 168.45E–.09 26 4.6b 25 2-149
IDC V 10 12 02 31.8–1.3 20.50S 168.43E 0 4.6,4.4 **¶16709434**
NEIC V 10 12 02 33.2–.50 20.54S 168.45E 10 4.8b,4.4
ISCJB V 10 12 02 34.3–.56 20.52S–.10 168.37E–.09 26 4.6b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 12 06 14.6–1.3 20.3S–.20 168.3E–.20 26 4.6s,4.1b 13 3-98
IDC V 10 12 06 10.8–1.7 20.23S 168.44E 0 4.6,4.6s **¶16709435**
NEIC V 10 12 06 12.4–.93 20.22S 168.43E 10 4.5b,4.6s
ISCJB V 10 12 06 13.2–.96 20.3S–.10 168.3E–.20 26 4.6s,4.1b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 12 07 36.7–.32 20.21S–.06 168.37E–.05 25 4.8b 182 3-165
IDC V 10 12 07 32.6–.56 20.11S 168.35E 0 4.6,4.4 **¶16503276**
NEIC V 10 12 07 34.5–.18 20.13S 168.35E 10 5.0b,4.4
ISCJB V 10 12 07 35.3–.20 20.15S–.04 168.26E–.04 25 5.0s,4.8b
BJI V 10 12 07 35.2 19.53S 168.82E 16 5.4b,5.3s
MOS V 10 12 07 36.6–1.2 20.07S 168.32E 33 5.1b,5.3s
ISC Event type fe.
IDC Error ellipse: s-maj=19.5km s-min=14.8km az=123.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=5.0km az=135.0. Felt at Houailu, New Caledonia.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.0km az=140.2.
MOS Error ellipse: s-maj=10.6km s-min=8.7km az=164.9.
IDC V 10 12 24 05.0–68 20.57S 167.70E 0 4.1,4.0
¶17203254
IDC Error ellipse: s-maj=1137.0km s-min=110.2km az=78.0.
IDC V 10 12 25 06.5–1.9 20.28S 168.36E 0 4.0,3.7
¶17203255
IDC Error ellipse: s-maj=83.0km s-min=28.9km az=149.0.
ISC V 10 12 27 36.1–1.4 20.4S–.30 168.2E–.30 32 3.9b 8 2-92
IDC V 10 12 27 31.3–1.7 20.30S 168.24E 0 4.1,3.9 **¶17203256**
ISCJB V 10 12 27 34.9–1.2 20.2S–.20 168.1E–.30 32 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 12 38 07.5–.49 20.25S–.09 168.31E–.09 25 4.5b 45 3-165
IDC V 10 12 38 03.6–.69 20.24S 168.39E 0 4.5,4.4 **¶16709440**
NEIC V 10 12 38 05.2–.38 20.18S 168.35E 10 5.1b,4.4
ISCJB V 10 12 38 06.1–.30 20.29S–.07 168.32E–.07 25 4.5b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 12 40 09.5–10.0 20.29S 167.90E 0 4.2,4.0
¶17203259
IDC Error ellipse: s-maj=179.3km s-min=43.4km az=99.0.
IDC V 10 12 42 33.0–8.6 20.35S 167.76E 0 4.0,3.9b
¶17203260
IDC Error ellipse: s-maj=150.3km s-min=41.6km az=96.0.
ISC V 10 12 48 30.0–1.4 20.4S–.30 168.4E–.20 26 4.0b 8 2-92
IDC V 10 12 48 26.2–1.6 20.25S 168.35E 0 4.4,4.1 **¶17203261**
ISCJB V 10 12 48 28.9–1.3 20.3S–.20 168.3E–.20 26 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 12 49 02.3–.89 20.3S–.10 168.2E–.20 25 4.1b 12 2-145
IDC V 10 12 48 58.6–.98 20.20S 168.28E 0 4.5,4.3 **¶17203264**
ISCJB V 10 12 49 00.9–.79 20.3S–.10 168.2E–.10 25 4.2b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 13 01 33.9–1.3 20.4S–.20 168.3E–.20 26 4.2b 13 2-145
IDC V 10 13 01 29.9–1.4 20.36S 168.27E 0 4.3,4.1 **¶16577249**
NEIC V 10 13 01 31.4–.78 20.38S 168.31E 10 4.4b,4.1
ISCJB V 10 13 01 32.7–1.1 20.3S–.10 168.2E–.20 26 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 13 06 16.0–1.6 20.6S–.30 168.2E–.30 32 4.1b 8 2-145
IDC V 10 13 06 11.5–1.8 20.52S 168.22E 0 4.3,4.1 **¶17203265**
ISC Event type ke.
IDC Error ellipse: s-maj=69.0km s-min=26.7km az=148.0.
IDC V 10 13 22 30.8–5.7 20.37S 167.91E 0 3.9s,3.9
¶17203267
IDC Error ellipse: s-maj=121.6km s-min=33.0km az=110.0.
ISC V 10 13 25 56.5–4.8 20.4S–.30 168.1E–.70 35 4.0b 7 2-78
IDC V 10 13 25 54.1–5.4 20.25S 167.67E 0 4.3,4.1 **¶16577250**
NEIC V 10 13 25 55.9–3.9 20.32S 167.66E 10 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=112.6km s-min=30.9km az=103.0.
NEIC Event type se. Error ellipse: s-maj=73.9km s-min=21.4km az=94.0.
ISC V 10 13 28 41.3–.92 20.4S–.20 168.4E–.10 26 4.1b 12 2-145
IDC V 10 13 28 37.5–1.5 20.23S 168.37E 0 4.3,4.1 **¶16577251**
NEIC V 10 13 28 38.9–.71 20.31S 168.40E 10 4.3b,4.1
ISCJB V 10 13 28 39.5–.83 20.4S–.10 168.4E–.10 26 4.1b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 13 31 33.3–1.5 20.3S–.30 168.2E–.30 26 3.9b 7 2-102
IDC V 10 13 31 29.1–2.1 20.40S 168.27E 0 4.3,4.0b **¶17203268**
ISCJB V 10 13 31 32.2–1.3 20.2S–.20 168.0E–.30 26 3.9b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 13 34 00.0–3.1 20.01S 168.66E 0 3.7,3.5
¶17203269
IDC Error ellipse: s-maj=102.3km s-min=35.4km az=138.0.
ISC V 10 13 56 06.6–1.3 20.3S–.20 168.4E–.20 25 4.1b 11 3-145
IDC V 10 13 56 03.1–1.4 20.17S 168.35E 0 4.2,4.0 **¶17203272**
ISCJB V 10 13 56 05.5–1.2 20.2S–.20 168.3E–.20 25 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 14 00 32.1–1.8 20.57S 168.43E 0 3.9,3.7
¶17203273
IDC Error ellipse: s-maj=70.6km s-min=24.4km az=148.0.
IDC V 10 14 03 20.3–1.6 20.23S 168.17E 0 4.0,3.7
¶17203274
IDC Error ellipse: s-maj=66.5km s-min=22.4km az=141.0.
ISC V 10 14 07 48.1–.41 20.36S–.05 168.21E–.05 34–1 5.2b,5.0s 426 2-165
NEIC V 10 14 07 44.6–.12 20.24S 168.22E 10 5.2b,5.0s **¶16503280**
GCMT V 10 14 07 44.6–.40 20.26S 168.08E 29–0 5.3W,5.0s
ISCJB V 10 14 07 46.9–.15 20.32S–.03 168.17E–.03 35 5.2b,5.1s
MOS V 10 14 07 47.1–1.2 20.20S 168.18E 33 5.4b,4.9s
BJI V 10 14 07 47.0 19.92S 168.16E 23 5.4s,5.2b
IDC V 10 14 07 48.4–.49 20.35S 168.13E 31–3 4.8,4.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=151.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c35; s63,c77; Duration: 1⁑1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30±.08 $M_{\theta\theta}$0.39±.05; $M_{\phi\phi}$0.91±.05; $M_{r\theta}$0.03±.08; $M_{\theta\phi}$-0.22±.02; $M_{\phi r}$0.05±.07; Best double couple: NP1:ϕ_s162.00000°,δ46.00000°,λ-88.00000°. NP2:ϕ_s338.00000°,δ44.00000°,λ-92.00000°. Principal axes: T 0.9920,Plg1.0000°,Azm250.0000°; N 0.3070,Plg2.0000°,Azm340.0000°; P -1.3020,Plg88.0000°,Azm132.0000° $M_0$1.14700×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.9km az=156.6.
MOS Error ellipse: s-maj=9.0km s-min=8.3km az=174.7.
IDC Error ellipse: s-maj=16.1km s-min=12.4km az=134.0.
ISC V 10 14 12 40.9–.57 20.3S–.10 168.11E–.09 32 4.2b 25 2-148
NEIC V 10 14 12 37.0–.51 20.14S 168.05E 10 4.6b **¶16577252**
ISCJB V 10 14 12 38.4–.49 20.25S–.08 168.10E–.08 32 4.2b
IDC V 10 14 12 39.9–1.3 20.29S 168.18E 31–7 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=10.1km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=7.6km az=142.1.
IDC Error ellipse: s-maj=29.8km s-min=18.2km az=132.0.
ISC V 10 14 15 02.9–.90 20.3S–.10 168.1E–.10 32 3.9b 16 2-145
NEIC V 10 14 14 59.5–.72 20.25S 168.21E 10 4.5b **¶16577253**
ISCJB V 10 14 15 01.1–.85 20.2S–.10 168.1E–.10 32 4.1b
IDC V 10 14 15 03.1–1.3 20.25S 168.12E 31–7 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=13.8km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=21.8km s-min=10.9km az=40.0.
IDC Error ellipse: s-maj=32.9km s-min=19.7km az=139.0.
IDC V 10 14 17 38.4–1.7 20.12S 168.01E 0 4.0,3.8b
¶17203279
IDC Error ellipse: s-maj=66.3km s-min=27.9km az=144.0.
IDC V 10 14 22 51.4–9.4 20.35S 167.92E 0 3.8,3.7
¶17203280
IDC Error ellipse: s-maj=170.0km s-min=43.0km az=100.0.
IDC V 10 14 26 12.8–2.3 20.22S 167.75E 0 3.7,3.5
¶17203281
IDC Error ellipse: s-maj=64.5km s-min=26.6km az=125.0.
IDC V 10 14 29 35.0–1.8 20.22S 168.20E 0 3.9,3.6
¶17203282
IDC Error ellipse: s-maj=66.8km s-min=25.7km az=142.0.
IDC V 10 14 47 38.8–5.1 20.23S 168.02E 0 3.9,3.7
¶17203284
IDC Error ellipse: s-maj=119.4km s-min=25.8km az=114.0.
IDC V 10 14 51 41.4–2.1 20.09S 167.37E 0 3.8,3.6
¶17203286
IDC Error ellipse: s-maj=52.9km s-min=26.7km az=117.0.
ISC V 10 14 53 33.3–.38 20.29S–.07 168.22E–.07 32 5.0b,4.0s 176 2-165
IDC V 10 14 53 28.8–.51 20.22S 168.23E 0 4.7,4.6 **¶16505606**
NEIC V 10 14 53 30.0–.16 20.17S 168.25E 10 5.1b,4.6
ISCJB V 10 14 53 31.8–.19 20.29S–.05 168.21E–.04 32 5.0b,4.1s
BJI V 10 14 53 33.3 20.17S 168.67E 53 5.4s,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.1km az=154.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.7km az=150.4.
IDC V 10 15 02 43.2–10 20.35S 167.53E 0 3.9,3.7
¶17203289
IDC Error ellipse: s-maj=184.6km s-min=38.9km az=91.0.
ISC V 10 15 04 53.9–.78 20.4S–.10 168.0E–.10 32 4.0b 13 2-165
IDC V 10 15 04 49.2–1.1 20.22S 167.95E 0 4.2,4.0 **¶16577255**
NEIC V 10 15 04 50.8–.65 20.33S 167.99E 10 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=35.4km s-min=21.4km az=128.0.
NEIC Event type se. Error ellipse: s-maj=23.9km s-min=11.7km az=157.0.
ISC V 10 15 10 02.3–.42 20.11S–.07 168.18E–.07 27 4.9b,4.1s 112 3-151
IDC V 10 15 09 57.8–.74 20.22S 168.32E 0 4.5,4.4b **¶16505608**
NEIC V 10 15 09 59.3–.20 20.12S 168.30E 10 5.0b,4.4b
ISCJB V 10 15 10 00.6–.23 20.16S–.05 168.23E–.05 27 4.8b,4.3s
BJI V 10 15 10 02.3 20.10S 168.30E 35 5.3s,5.2
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=15.7km az=140.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.2km az=145.8.
ISC V 10 15 18 53.0–1.7 20.1S–.10 167.2E–.20 35 3.9b 10 2-92
IDC V 10 15 18 47.4–2.0 20.12S 167.39E 0 4.2,4.0 **¶16577257**
NEIC V 10 15 18 48.9–1.2 20.19S 167.40E 10 4.1b,4.0
ISCJB V 10 15 18 51.4–1.6 20.02S–.08 167.2E–.20 33 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 15 26 33.4–6.3 21.56S 167.86E 0 3.9,3.7b
¶17203291
IDC Error ellipse: s-maj=267.4km s-min=30.8km az=148.0.
ISC V 10 15 30 49.2–.70 20.24S–.09 168.1E–.10 27 4.5b,4.0s 20 2-145
IDC V 10 15 30 45.2–.78 20.18S 168.14E 0 4.6,4.4 **¶16577258**
NEIC V 10 15 30 46.7–.46 20.22S 168.17E 10 4.7b,4.4
ISCJB V 10 15 30 47.5–.54 20.22S–.08 168.11E–.10 27 4.5b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 15 48 07.6–10 20.45S 167.71E 0 3.8,3.6
¶17203299
IDC Error ellipse: s-maj=177.3km s-min=40.9km az=97.0.
IDC V 10 15 57 08.4–5.1 20.18S 167.42E 0 4.0,3.8b
¶17203301
IDC Error ellipse: s-maj=102.4km s-min=30.2km az=97.0.
IDC V 10 16 21 45.7–10 20.30S 167.53E 0 4.0,3.9b
¶17203304
IDC Error ellipse: s-maj=188.2km s-min=38.7km az=90.0.
IDC V 10 16 25 43.8–2.2 20.26S 167.58E 0 3.9,3.8b
¶17203306
IDC Error ellipse: s-maj=60.3km s-min=25.8km az=123.0.

ISC V 10 17 05 03.7–1.2 20.3S–.10 168.2E–.20 32 4.7b 19 2-145
IDC V 10 17 04 59.2–2.0 20.34S 168.21E 0 4.4,4.2 ¶16709498
NEIC V 10 17 05 00.2–1.0 20.29S 168.18E 10 4.8b,4.2
ISCJB V 10 17 05 02.3–1.1 20.25S–.10 168.1E–.20 32 4.6b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 17 06 22.0–.53 20.40S–.09 168.4E–.10 26 4.7s,4.7b 64 2-149
IDC V 10 17 06 18.0–.76 20.34S 168.42E 0 4.4,4.4 ¶16709499
NEIC V 10 17 06 19.2–.28 20.43S 168.49E 10 5.0b,4.4
ISCJB V 10 17 06 20.6–.27 20.39S–.06 168.34E–.06 26 4.7b,4.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 17 26 53.0–3.1 20.27S 167.97E 0 4.3,4.3s
¶17203314
IDC Error ellipse: s-maj=74.0km s-min=32.6km az=124.0.
ISC V 10 18 11 19.9–.56 20.23S–.08 168.21E–.09 27 4.3b,3.6s 27 2-165
IDC V 10 18 11 15.4–1.0 20.20S 168.28E 0 4.3,4.1 ¶16709502
ISCJB V 10 18 11 17.9–.48 20.22S–.07 168.23E–.07 27 4.4b,3.7s
NEIC V 10 18 11 17.5–.44 20.17S 168.18E 10 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=20.0km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=8.0km az=40.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=10.3km az=151.0.
IDC V 10 18 18 28.0–10 20.17S 167.70E 0 4.1,4.0b
¶17203316
IDC Error ellipse: s-maj=184.4km s-min=39.7km az=92.0.
ISC V 10 18 21 34.0–.93 20.4S–.20 168.4E–.10 26 4.0b 13 2-32
IDC V 10 18 21 26.6–10 20.23S 168.83E 0 4.2,4.0 ¶16709504
ISCJB V 10 18 21 31.7–.72 20.3S–.10 168.4E–.10 26 4.1b,4.0
NEIC V 10 18 21 31.9–.63 20.29S 168.37E 10 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=163.3km s-min=68.6km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=23.0km s-min=8.2km az=143.2.
NEIC Event type se. Error ellipse: s-maj=23.5km s-min=8.9km az=153.0.
IDC V 10 18 47 13.8–11 20.14S 167.64E 0 3.9,3.8
¶17203317
IDC Error ellipse: s-maj=189.9km s-min=39.6km az=90.0.
ISC V 10 19 08 05.2–.74 20.1S–.10 168.0E–.10 27 4.5b 21 2-145
IDC V 10 19 08 01.4–1.2 20.08S 168.17E 0 4.3,4.1 ¶16709506
NEIC V 10 19 08 02.9–.52 20.13S 168.11E 10 4.8b,4.1
ISCJB V 10 19 08 03.4–.56 20.13S–.07 168.09E–.09 27 4.5b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 10 19 24 24.7–10 20.29S 167.61E 0 4.0,3.9b
¶17203318
IDC Error ellipse: s-maj=186.8km s-min=39.7km az=92.0.
ISC V 10 19 31 47.3–.34 20.21S–.06 168.41E–.07 25 5.1b,4.0s 351 3-165
IDC V 10 19 31 43.5–.53 20.18S 168.45E 0 4.8,4.8 ¶16560963
ISCJB V 10 19 31 46.0–.17 20.21S–.04 168.38E–.04 25 5.0b,4.1s
NEIC V 10 19 31 45.1–.14 20.15S 168.45E 10 5.1b,4.1s
MOS V 10 19 31 47.8–1.1 20.07S 168.31E 33 5.3b,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=17.5km s-min=14.1km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=154.7.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.2km az=156.0. Felt at We. Also felt at Noumea, New Caledonia.
MOS Error ellipse: s-maj=9.7km s-min=9.0km az=8.3.
ISC V 10 20 07 53.7–1.2 20.1S–.20 168.5E–.20 25 4.1b 10 3-145
IDC V 10 20 07 50.0–3.8 19.92S 168.42E 0 4.2,4.1b ¶16709508
ISCJB V 10 20 07 51.9–.99 20.1S–.10 168.4E–.10 25 4.0b,3.3s
NEIC V 10 20 07 51.4–1.1 20.06S 168.48E 10 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=86.0km s-min=50.0km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=24.4km s-min=12.4km az=143.3.
NEIC Event type se. Error ellipse: s-maj=35.2km s-min=15.6km az=166.0.
ISC V 10 20 49 58.0–.88 20.3S–.10 168.3E–.20 26 4.6b 26 2-148
IDC V 10 20 49 53.7–1.7 20.39S 168.49E 0 4.2,4.0 ¶16709511
NEIC V 10 20 49 55.5–.64 20.28S 168.35E 10 5.0b,4.0
ISCJB V 10 20 49 56.4–.76 20.2S–.10 168.3E–.10 26 4.7b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 20 54 00.7–.59 20.40S–.09 168.15E–.09 32 4.8b,3.6s 30 2-145
IDC V 10 20 53 55.7–1.3 20.31S 168.19E 0 4.5,4.3 ¶16709513
NEIC V 10 20 53 57.5–.38 20.30S 168.13E 10 4.8b,4.3
ISCJB V 10 20 53 58.7–.49 20.37S–.07 168.15E–.07 32 4.7b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 10 21 00 03.7–1.5 20.6S–.20 168.5E–.20 32 4.5b 14 2-145
NEIC V 10 20 59 57.8–3.0 20.61S 168.75E 2–17 4.6b ¶16709514
ISCJB V 10 21 00 01.1–1.3 20.5S–.10 168.6E–.20 32 4.4b
IDC V 10 21 00 01.9–4.0 20.20S 168.07E 0 4.2,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=39.4km s-min=20.6km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=22.7km s-min=14.3km az=33.0.
IDC Error ellipse: s-maj=84.5km s-min=49.1km az=115.0.
IDC V 10 21 06 27.1–25 20.20S 168.13E 0 4.1,4.0
¶17203322
IDC Error ellipse: s-maj=426.7km s-min=60.2km az=88.0.
ISC V 10 22 47 38.5–.93 20.5S–.10 168.3E–.20 26 4.2b,3.7s 17 2-148
IDC V 10 22 47 34.4–1.1 20.41S 168.34E 0 4.4,4.2 ¶17203327
ISCJB V 10 22 47 36.6–.90 20.5S–.10 168.3E–.10 26 4.2b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 23 18 14.9–11 20.07S 167.46E 0 3.9,3.8b
¶17203330
IDC Error ellipse: s-maj=198.1km s-min=38.5km az=86.0.
ISC V 10 23 56 08.0–.57 20.2S–.10 168.05E–.08 23–3 4.5b,3.6s 50 2-148
NEIC V 10 23 56 05.8–.43 20.22S 168.11E 10 4.7b,3.6s ¶16506300
ISCJB V 10 23 56 06.1–2.8 20.24S–.08 168.04E–.07 22–20 4.5b,3.5s
IDC V 10 23 56 09.0–.76 20.23S 168.12E 31–4 4.4,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.8km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=8.4km az=143.0.
IDC Error ellipse: s-maj=20.5km s-min=14.0km az=137.0.
IDC V 11 00 05 40.0–3.4 20.13S 168.13E 0 4.1,3.9
¶17203334
IDC Error ellipse: s-maj=73.7km s-min=38.0km az=119.0.
IDC V 11 00 45 08.3–5.3 20.89S 168.62E 0 3.8,3.6
¶17203338
IDC Error ellipse: s-maj=177.3km s-min=35.7km az=140.0.
ISC V 11 02 16 38.3–.77 20.5S–.10 168.4E–.10 26 4.4b,3.3s 32 2-148
NEIC V 11 02 16 35.7–.41 20.45S 168.45E 10 4.5b,3.3s ¶16580975
ISCJB V 11 02 16 36.8–.62 20.4S–.10 168.4E–.10 26 4.3b,3.4s
IDC V 11 02 16 40.4–1.6 20.41S 168.26E 38–7 4.3,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.0km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=19.1km s-min=8.3km az=139.1.
IDC Error ellipse: s-maj=50.7km s-min=17.3km az=138.0.
IDC V 11 02 20 48.1–1.8 20.40S 168.17E 0 4.2,3.9
¶17203342
IDC Error ellipse: s-maj=69.2km s-min=25.3km az=143.0.
ISC V 11 02 57 48.4–1.1 20.1S–.20 168.0E–.20 27 4.0b 12 2-145
ISCJB V 11 02 57 47.3–1.1 20.0S–.10 168.0E–.20 27 4.0b ¶17203344
IDC V 11 02 57 49.6–1.3 20.10S 168.04E 33–7 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.5km s-min=10.8km az=31.7.
IDC Error ellipse: s-maj=46.9km s-min=18.7km az=143.0.
ISC V 11 03 13 01.8–.36 20.15S–.06 168.68E–.06 25 4.9b,4.8s 144 3-160
IDC V 11 03 12 57.0–.84 20.12S 168.75E 0 4.7s,4.7 ¶16505618
NEIC V 11 03 12 59.5–.30 19.94S 168.56E 10 4.9b,4.7
GCMT V 11 03 12 59.5–.10 20.08S 168.49E 20–0 5.3W,4.7
ISCJB V 11 03 13 00.4–.26 20.14S–.05 168.56E–.04 25 4.8b,4.7s
MOS V 11 03 13 01.7–1.2 20.06S 168.53E 33 5.1b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=16.3km az=142.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.0km az=147.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s94,c141; s113,c183; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.84±.02 $M_{\theta\theta}$-0.14±.01; $M_{\phi\phi}$-0.69±.01; $M_{r\theta}$0.43±.03; $M_{\theta\phi}$0.42±.01; $M_{\theta r}$-0.65±.03; Best double couple: NP1:ϕ_s148.00000°,δ66.00000°,λ87.00000°. NP2:ϕ_s336.00000°,δ24.00000°,λ97.00000°. Principal axes: T 1.1380,Plg69.0000°,Azm52.0000°; N 0.0830,Plg3.0000°,Azm150.0000°; P -1.2210,Plg21.0000°,Azm241.0000° $M_0$1.17900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.3km az=152.2.
MOS Error ellipse: s-maj=12.3km s-min=9.8km az=159.6.
IDC V 11 03 29 53.1–3.3 20.19S 168.81E 0 4.5,4.3
¶17203349
IDC Error ellipse: s-maj=86.1km s-min=39.4km az=133.0.
IDC V 11 04 46 48.0–1.4 20.22S 168.21E 39–9 3.8,3.8
¶17203354
IDC Error ellipse: s-maj=54.8km s-min=21.4km az=146.0.
ISC V 11 05 53 21.0–.95 20.3S–.20 168.2E–.20 32 4.0b 13 2-165
IDC V 11 05 53 16.1–.99 20.31S 168.15E 0 4.3,4.1 ¶17203359
ISCJB V 11 05 53 19.4–.96 20.3S–.10 168.1E–.20 32 4.1b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 06 05 25.4–10 20.35S 167.55E 0 4.1,4.0
¶17203360
IDC Error ellipse: s-maj=184.6km s-min=38.8km az=91.0.
ISC V 11 06 46 13.4–.58 20.49S–.08 168.26E–.07 35–3 4.8b,4.0s 123 2-165
IDC V 11 06 46 07.8–.60 20.51S 168.41E 0 4.6,4.5 ¶16504101
NEIC V 11 06 46 09.8–.29 20.45S 168.33E 10 4.9b,4.5
ISCJB V 11 06 46 11.8–1.5 20.53S–.08 168.23E–.06 33–14 4.8b,3.9s
MOS V 11 06 46 12.1–1.2 20.35S 168.20E 33 5.1b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.8km az=143.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.7km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=8.0km az=162.4.
MOS Error ellipse: s-maj=12.5km s-min=9.9km az=168.9.
ISC V 11 06 59 41.6–1.4 20.6S–.30 168.4E–.30 26 4.1b 8 2-92
IDC V 11 06 59 37.9–1.6 20.38S 168.28E 0 4.3,4.1 ¶17203362
ISCJB V 11 06 59 40.5–1.3 20.4S–.20 168.2E–.20 26 4.1b,3.0s
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 08 00 55.8–10 20.25S 167.78E 0 4.2,4.1b
¶17203367
IDC Error ellipse: s-maj=186.5km s-min=41.9km az=95.0.
ISC V 11 08 19 36.8–.24 20.37S–.04 168.35E–.04 32–1 5.9b,5.2s 1295 2-167
IDC V 11 08 19 31.7–.35 20.35S 168.47E 0 5.6b,5.5 ¶16503624
NEIC V 11 08 19 33.5–.09 20.30S 168.35E 10 5.8b,5.6W
GCMT V 11 08 19 33.5–.10 20.40S 168.23E 12 5.6W,5.6W
ISCJB V 11 08 19 35.6–.89 20.34S–.03 168.31E–.02 33–7 5.8b,5.1s
MOS V 11 08 19 36.1–1.3 20.27S 168.30E 33 6.0b,5.2s
NEIC V 11 08 19 38.0–.00 20.49S 168.02E 15 6.0b,5.2s
BJI V 11 08 19 39.5 19.77S 168.17E 44 5.8b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=78.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.1km az=152.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c200; s134,c343;Duration: 1$\hat{s}$5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.64±.02 $M_{\theta\theta}$0.31±.02; $M_{\phi\phi}$2.33±.02; $M_{r\theta}$-0.52±.07; $M_{\theta\phi}$-1.02±.02; $M_{\theta r}$0.06±.06; Best double couple: NP1:ϕ_s148.00000°,δ49.00000°,λ-103.00000°. NP2:ϕ_s347.00000°,δ43.00000°,λ-76.00000°. Principal axes: T 2.7670,Plg3.0000°,Azm247.0000°; N -0.0390,Plg10.0000°,Azm156.0000°; P -2.7310,Plg80.0000°,Azm352.0000° $M_0$2.74900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=1.3.
MOS Error ellipse: s-maj=6.6km s-min=6.2km az=97.3.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.30 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$2.70 $M_{r\theta}$0.60 $M_{\theta\phi}$-0.80 $M_{\theta r}$-1.70 Best double couple: NP1:ϕ_s341.00000°,δ62.00000°,λ-94.00000°. NP2:ϕ_s171.00000°,δ28.00000°,λ-81.00000°. Principal axes: T 3.4000,Plg17.0000°,Azm75.0000°; N -0.5000,Plg3.0000°,Azm343.0000°; P -2.9000,Plg72.0000°,Azm241.0000° $M_0$3.00000×10^{17}
ISC V 11 08 23 53.3–1.7 20.9S–.40 168.7E–.30 30 4.3b 8 2-126
IDC V 11 08 23 49.0–1.6 20.77S 168.64E 0 4.5,4.3 ¶17203369
ISC Event type ke.
IDC Error ellipse: s-maj=65.4km s-min=21.2km az=148.0.
ISC V 11 08 57 54.3–1.2 20.5S–.20 168.2E–.20 32 4.2b,3.8s 13 2-102
IDC V 11 08 57 49.3–1.4 20.50S 168.27E 0 4.3,4.2 ¶17203372
ISCJB V 11 08 57 53.1–1.1 20.4S–.10 168.1E–.20 32 4.1b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC V 11 09 02 54.7–1.3 20.7S–.10 168.4E–.20 26 4.0b 15 2-102
IDC V 11 09 02 50.9–1.5 20.68S 168.35E 0 4.4,4.1 ¶16633259
NEIC V 11 09 02 52.2–1.1 20.73S 168.38E 10 4.1b,4.1
ISCJB V 11 09 02 53.5–1.2 20.6S–.10 168.3E–.20 26 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 11 09 16 23.7–.42 20.39S–.05 168.35E–.05 26–2 5.2b,4.8s 432 2-165
IDC V 11 09 16 19.6–.51 20.40S 168.40E 0 4.9,4.8 ¶16504103
GCMT V 11 09 16 21.5–.30 20.47S 168.25E 19–1 5.0W,4.8
NEIC V 11 09 16 21.5–.14 20.36S 168.33E 10 5.2b,4.8
ISCJB V 11 09 16 21.1–1.9 20.38S–.05 168.34E–.03 17–13 5.1b,4.7s
MOS V 11 09 16 23.6–1.0 20.33S 168.27E 33 5.3b,4.7s
BJI V 11 09 16 25.0 19.93S 168.41E 35 5.3b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=14.0km az=142.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c35; s85,c111; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.49±.27 $M_{\theta\theta}$1.48±.18; $M_{\phi\phi}$3.01±.18; $M_{r\theta}$-1.39±.38; $M_{\theta\phi}$-1.61±.10; $M_{\theta r}$0.60±.35; Best double couple: NP1:ϕ_s138.00000°,δ54.00000°,λ-101.00000°. NP2:ϕ_s336.00000°,δ37.00000°,λ-75.00000°. Principal axes: T 4.2110,Plg8.0000°,Azm236.0000°; N 0.5950,Plg9.0000°,Azm144.0000°; P -4.8050,Plg78.0000°,Azm9.0000° $M_0$4.50800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.6km az=169.4.
MOS Error ellipse: s-maj=9.0km s-min=7.9km az=169.4.
ISC V 11 09 21 35.1–.49 20.45S–.06 168.40E–.05 29–3 5.2b,4.7s 373 2-165
IDC V 11 09 21 30.1–.57 20.46S 168.38E 0 4.7,4.6 ¶16504104
ISCJB V 11 09 21 32.3–2.3 20.40S–.05 168.40E–.03 19–16 5.1b,4.6s
NEIC V 11 09 21 32.4–.14 20.35S 168.36E 10 5.2b,4.6s
GCMT V 11 09 21 32.3–.20 20.39S 168.25E 13–0 5.2W,4.6s
MOS V 11 09 21 34.6–1.2 20.40S 168.33E 33 5.5b,4.6s
BJI V 11 09 21 35.4 20.12S 168.58E 39 5.2b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=13.7km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=170.7.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.7km az=157.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c66; s114,c184; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.26±.22 $M_{\theta\theta}$0.52±.14; $M_{\phi\phi}$5.73±.17; $M_{r\theta}$-1.07±.35; $M_{\theta\phi}$-1.75±.10; $M_{\theta r}$0.93±.33; Best double couple: NP1:ϕ_s156.00000°,δ51.00000°,λ-98.00000°. NP2:ϕ_s350.00000°,δ40.00000°,λ-80.00000°. Principal axes: T 6.3790,Plg5.0000°,Azm252.0000°; N 0.0760,Plg7.0000°,Azm162.0000°; P -6.4610,Plg81.0000°,Azm22.0000° $M_0$6.42000×10^{16}
MOS Error ellipse: s-maj=9.6km s-min=8.6km az=160.4.
ISC V 11 09 28 08.1–.57 20.54S–.10 168.30E–.09 26 4.6b 41 2-165

IDC V 11 09 28 04.2–.80 20.49S 168.32E 0 4.5,4.3 ¶16633261
NEIC V 11 09 28 05.6–.30 20.50S 168.34E 10 4.9b,4.3
ISCJB V 11 09 28 06.5–.40 20.51S–.07 168.29E–.07 26 4.6b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 11 09 43 30.5–.46 20.40S–.05 168.35E–.05 34–1 5.1b,4.4s 375 2-165
IDC V 11 09 43 24.7–.57 20.42S 168.43E 0 4.8,4.8 ¶16504105
GCMT V 11 09 43 26.2–.20 20.40S 168.22E 13–0 5.2W,4.8
NEIC V 11 09 43 26.2–.19 20.43S 168.46E 10 5.1b,4.8
ISCJB V 11 09 43 27.9–1.5 20.40S–.04 168.39E–.04 33–13 5.2b,4.3s
MOS V 11 09 43 28.7–1.1 20.40S 168.31E 33 5.3b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=14.0km az=115.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c76; s110,c176; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-7.02±.25 $M_{\theta\theta}$0.89±.15; $M_{\phi\phi}$6.13±.17; $M_{r\theta}$-1.31±.38; $M_{\theta\phi}$-2.11±.10; $M_{\phi r}$1.82±.33; Best double couple: NP1:ϕ_s156.00000°,δ54.00000°,λ-96.00000°. NP2:ϕ_s345.00000°,δ37.00000°,λ-82.00000°. Principal axes: T 7.2010,Plg9.0000°,Azm250.0000°; N 0.1990,Plg5.0000°,Azm159.0000°; P -7.3970,Plg80.0000°,Azm42.0000° M_o7.29900×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.8km az=0.8.
MOS Error ellipse: s-maj=9.9km s-min=8.9km az=36.8.
ISC V 11 09 48 21.6–1.5 20.6S–.30 168.4E–.30 26 4.1b 10 2-102
IDC V 11 09 48 17.8–1.6 20.47S 168.43E 0 4.3,4.1 ¶17203375
ISCJB V 11 09 48 20.5–1.3 20.4S–.20 168.3E–.30 26 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 09 48 36.8–2.0 20.38S 168.35E 0 4.3,4.0
¶17203378
IDC Error ellipse: s-maj=83.3km s-min=31.1km az=149.0.
IDC V 11 10 15 04.4–1.9 20.06S 168.68E 0 3.9,3.7
¶17203380
IDC Error ellipse: s-maj=86.4km s-min=28.7km az=150.0.
ISC V 11 10 32 23.7–.35 20.51S–.06 168.39E–.05 28–1 5.0b,4.9s 288 2-165
IDC V 11 10 32 19.1–.56 20.47S 168.43E 0 4.6,4.5 ¶16504107
NEIC V 11 10 32 21.2–.18 20.42S 168.43E 10 5.1b,4.5
ISCJB V 11 10 32 22.9–2.5 20.53S–.06 168.41E–.04 32–17 5.0s,4.9b
MOS V 11 10 32 23.0–1.1 20.48S 168.37E 33 5.2b,4.9b
BJI V 11 10 32 26.5 20.09S 168.37E 44 5.2b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=14.8km az=113.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.6km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.4km az=174.9.
MOS Error ellipse: s-maj=12.1km s-min=9.6km az=164.8.
ISC V 11 10 39 37.8–.40 20.46S–.06 168.31E–.06 29–2 5.0b,4.2s 281 2-165
ISCJB V 11 10 39 32.5–3.1 20.42S–.05 168.31E–.04 3–18 5.0b,4.3s ¶16505623
IDC V 11 10 39 33.4–.76 20.45S 168.33E 0 4.8,4.7
GCMT V 11 10 39 35.0–.40 20.70S 168.29E 22–1 4.9W,4.7
NEIC V 11 10 39 35.0–.19 20.42S 168.33E 10 5.0b,4.7
BJI V 11 10 39 37.3 20.40S 168.30E 37 5.1b,5.0b
MOS V 11 10 39 37.4–1.1 20.34S 168.25E 33 5.3b,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.3km az=160.1.
IDC Error ellipse: s-maj=22.7km s-min=15.4km az=132.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c38; s65,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.98±.26 $M_{\theta\theta}$0.79±.15; $M_{\phi\phi}$2.19±.15; $M_{r\theta}$-1.65±.25; $M_{\theta\phi}$-0.33±.08; $M_{\phi r}$0.01±.21; Best double couple: NP1:ϕ_s144.00000°,δ54.00000°,λ-115.00000°. NP2:ϕ_s2.00000°,δ43.00000°,λ-60.00000°. Principal axes: T 2.3010,Plg6.0000°,Azm252.0000°; N 1.2970,Plg20.0000°,Azm160.0000°; P -3.6030,Plg69.0000°,Azm357.0000° M_o2.95200×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.3km az=160.0.
MOS Error ellipse: s-maj=10.3km s-min=8.9km az=12.5.
ISC V 11 11 44 36.9–1.5 20.4S–.10 167.2E–.20 35 4.0b 7 2-91
IDC V 11 11 44 31.8–1.7 20.35S 167.25E 0 4.4,4.1 ¶17203385
ISCJB V 11 11 44 35.8–1.4 20.23S–.10 167.1E–.20 33 3.9b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 11 58 29.6–2.1 20.41S 168.29E 0 3.9,3.7
¶17203387
IDC Error ellipse: s-maj=76.5km s-min=27.2km az=142.0.
ISC V 11 12 52 28.7–.75 20.4S–.10 168.37E–.10 26 4.2b,3.4s 21 2-165
IDC V 11 12 52 25.2–1.2 20.26S 168.34E 0 4.4,4.2 ¶16633264
ISCJB V 11 12 52 26.6–.71 20.39S–.09 168.37E–.09 26 4.1b,3.4s
NEIC V 11 12 52 26.3–.50 20.40S 168.38E 10 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=46.5km s-min=19.8km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=8.2km az=138.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.5km az=155.0.
IDC V 11 12 58 58.6–2.0 20.18S 168.13E 0 4.0,4.0
¶17203392
IDC Error ellipse: s-maj=71.9km s-min=31.4km az=146.0.
IDC V 11 13 18 28.9–1.9 20.41S 168.31E 0 4.0,3.8
¶17203394
IDC Error ellipse: s-maj=83.4km s-min=28.8km az=149.0.
IDC V 11 13 30 03.9–11 20.15S 167.57E 0 4.0,3.9b
¶17203395
IDC Error ellipse: s-maj=191.7km s-min=39.0km az=89.0.
ISC V 11 13 48 09.5–1.2 20.5S–.20 168.4E–.20 26 4.0b 9 2-90
IDC V 11 13 48 05.4–1.8 20.29S 168.40E 0 4.2,3.9 ¶16577267
NEIC V 11 13 48 07.0–.97 20.40S 168.40E 10 4.3b,3.9
ISCJB V 11 13 48 08.1–1.1 20.4S–.20 168.3E–.20 26 3.8b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 11 13 48 29.5–1.2 20.6S–.20 168.4E–.20 26 4.4b 14 2-90
IDC V 11 13 48 25.4–1.7 20.61S 168.39E 0 4.4,4.3 ¶16577270
NEIC V 11 13 48 27.0–.97 20.64S 168.41E 10 4.6b,4.3
ISCJB V 11 13 48 27.9–1.0 20.6S–.10 168.3E–.10 26 4.3b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 11 14 08 06.9–2.0 20.27S 168.18E 0 3.9,3.6
¶17203397
IDC Error ellipse: s-maj=59.3km s-min=28.2km az=139.0.
ISC V 11 14 52 12.9–.98 20.9S–.20 168.7E–.20 30 4.3b 19 2-92
NEIC V 11 14 52 11.3–1.1 20.56S 168.48E 10 4.5b ¶16577271
IDC V 11 14 52 15.9–1.2 20.53S 168.31E 39–7 4.1,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=35.0km s-min=12.8km az=141.0.
IDC Error ellipse: s-maj=44.5km s-min=15.8km az=142.0.
ISC V 11 14 53 44.2–1.2 20.5S–.30 168.3E–.30 26 4.0b 10 2-92
ISCJB V 11 14 53 42.9–1.3 20.3S–.20 168.2E–.30 26 3.8b ¶17203401
IDC V 11 14 53 46.1–1.4 20.39S 168.25E 39–8 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.6km s-min=11.4km az=40.4.
IDC Error ellipse: s-maj=63.3km s-min=19.0km az=147.0.
ISC V 11 18 19 39.6–1.7 20.6S–.50 168.4E–.40 26 4.1b 7 2-149
IDC V 11 18 19 35.9–1.9 20.52S 168.45E 0 4.3,4.1 ¶17203416
ISC Event type ke.
IDC Error ellipse: s-maj=106.4km s-min=26.5km az=142.0.
ISC V 11 18 47 56.6–1.7 20.4S–.30 168.3E–.30 27 3.9b 7 2-90
IDC V 11 18 47 52.6–1.9 20.19S 168.21E 0 4.2,4.0 ¶17203422
ISCJB V 11 18 47 55.4–1.5 20.3S–.20 168.1E–.20 27 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC V 11 19 17 23.8–1.6 20.6S–.30 168.4E–.30 26 3.7b 9 2-145
IDC V 11 19 17 20.4–1.9 20.38S 168.26E 0 4.1,3.9 ¶17203425
ISCJB V 11 19 17 22.8–1.5 20.5S–.20 168.3E–.20 26 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 21 55 32.5–42 20.14S 167.83E 0 4.1,3.9
¶17203436
IDC Error ellipse: s-maj=712.6km s-min=55.0km az=83.0.
IDC V 12 01 00 18.7–5.6 20.20S 167.75E 0 4.2,4.2s
¶17203444
IDC Error ellipse: s-maj=90.3km s-min=39.6km az=87.0.
ISC V 12 03 54 04.1–1.5 20.5S–.30 168.4E–.30 26 4.1b 9 2-145
IDC V 12 03 54 00.2–1.7 20.54S 168.43E 0 4.2,3.9 ¶17203455
ISC Event type ke.
IDC Error ellipse: s-maj=74.5km s-min=21.3km az=144.0.
ISC V 12 16 02 57.8–.95 20.4S–.10 168.2E–.20 32 4.2b,3.2s 20 2-145
NEIC V 12 16 02 54.0–1.2 20.44S 168.34E 10 4.8b,3.2s ¶16709698
ISCJB V 12 16 02 56.2–.92 20.4S–.10 168.2E–.10 32 4.4b,3.1s
IDC V 12 16 02 57.8–1.1 20.44S 168.26E 31–6 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=33.2km s-min=13.2km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=22.8km s-min=9.5km az=35.6.
IDC Error ellipse: s-maj=30.4km s-min=18.4km az=146.0.
ISC V 12 16 34 14.5–.73 20.3S–.10 168.2E–.10 32 4.4b 30 2-145
IDC V 12 16 34 09.6–.91 20.26S 168.24E 0 4.3,4.1 ¶16709701
NEIC V 12 16 34 11.1–.46 20.35S 168.17E 10 4.8b,4.1
ISCJB V 12 16 34 12.9–.51 20.34S–.08 168.11E–.09 32 4.4b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 12 17 55 34.2–1.6 20.8S–.30 168.7E–.20 30 3.9b,3.5s 14 2-146
ISCJB V 12 17 55 33.2–1.3 20.8S–.30 168.6E–.20 30 3.9b,3.6s ¶17203491
IDC V 12 17 55 34.9–2.0 20.86S 168.64E 33–6 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.7km s-min=10.5km az=140.4.
IDC Error ellipse: s-maj=66.5km s-min=19.3km az=146.0.
IDC V 12 18 25 38.3–5.5 20.05S 167.56E 0 4.0,3.9b
¶17203493
IDC Error ellipse: s-maj=111.3km s-min=31.6km az=98.0.
IDC V 12 22 40 51.0–11 20.10S 167.57E 0 4.1,4.0b
¶17203511
IDC Error ellipse: s-maj=192.5km s-min=39.0km az=88.0.
ISC V 13 00 06 22.6–.52 20.4S–.10 168.43E–.09 26 4.4b 52 2-148
ISCJB V 13 00 06 20.8–.42 20.38S–.07 168.41E–.07 26 4.4b ¶16577286
NEIC V 13 00 06 20.1–.32 20.38S 168.44E 10 4.5b
IDC V 13 00 06 24.5–.85 20.42S 168.31E 37–4 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=7.0km az=138.8.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.8km az=154.0.
IDC Error ellipse: s-maj=26.7km s-min=14.3km az=139.0.
ISC V 13 08 14 01.9–.51 20.61S–.09 168.3E–.10 26 4.6b,3.6s 51 2-165
IDC V 13 08 13 58.1–.65 20.57S 168.33E 0 4.5,4.4 ¶16528061
NEIC V 13 08 13 59.6–.30 20.55S 168.32E 10 4.9b,4.4
ISCJB V 13 08 14 00.4–.38 20.59S–.06 168.27E–.07 26 4.5b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 13 14 09 44.8–1.9 20.50S 168.19E 0 4.0,3.7b
¶17203553
IDC Error ellipse: s-maj=72.6km s-min=25.2km az=144.0.
ISC V 13 21 26 06.4–.97 20.3S–.10 167.5E–.20 35 4.2b 11 2-128
IDC V 13 21 26 00.7–5.7 20.22S 167.59E 0 4.0,3.8 ¶16577295
ISCJB V 13 21 26 05.1–.77 20.1S–.10 167.4E–.20 33 4.2b,3.8
NEIC V 13 21 26 06.2–.64 20.39S 167.56E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=114.3km s-min=31.6km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=24.9km s-min=9.8km az=27.4.
NEIC Event type se. Error ellipse: s-maj=26.1km s-min=11.8km az=136.0.
ISC V 14 03 24 08.7–2.6 20.8S–.50 168.4E–.50 26 4.0b 9 2-145
IDC V 14 03 24 05.5–2.8 20.69S 168.33E 0 4.1,3.9 ¶17203584
ISCJB V 14 03 24 07.6–2.2 20.6S–.30 168.3E–.40 26 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC V 14 06 24 01.4–1.8 20.05S 168.11E 0 3.8,3.6
¶17203589
IDC Error ellipse: s-maj=69.9km s-min=29.3km az=147.0.
ISC V 14 07 04 31.3–.67 20.3S–.10 168.3E–.10 26 4.2b 19 2-148
IDC V 14 07 04 27.1–.83 20.30S 168.41E 0 4.4,4.2 ¶16591579
NEIC V 14 07 04 29.0–.54 20.32S 168.36E 10 4.4b,4.2
ISCJB V 14 07 04 29.7–.56 20.3S–.10 168.35E–.09 26 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 14 07 06 02.3–.30 20.23S–.06 168.36E–.05 25 5.1b,4.7s 286 3-165
IDC V 14 07 05 57.3–.48 20.15S 168.36E 0 4.7,4.6s ¶16510232
GCMT V 14 07 05 59.5–.20 20.15S 168.18E 12 5.1W,4.6s
NEIC V 14 07 05 59.5–.16 20.08S 168.27E 10 5.3b,4.6s
ISCJB V 14 07 06 00.7–.17 20.14S–.04 168.37E–.04 25 5.0b,4.7s
MOS V 14 07 06 01.4–1.1 20.24S 168.29E 33 5.5b,4.7s
BJI V 14 07 06 06.2 20.20S 168.40E 66 5.3b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=14.7km az=122.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c46; s114,c175; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.24±.09 $M_{\theta\theta}$0.60±.10; $M_{\phi\phi}$4.65±.09; $M_{r\theta}$-0.16±.30; $M_{\theta\phi}$-1.25±.08; $M_{\phi r}$1.54±.30; Best double couple: NP1:ϕ_s167.00000°,δ53.00000°,λ-87.00000°. NP2:ϕ_s342.00000°,δ37.00000°,λ-94.00000°. Principal axes: T 5.2270,Plg8.0000°,Azm255.0000°; N 0.2570,Plg3.0000°,Azm345.0000°; P -5.4740,Plg81.0000°,Azm92.0000° M_o5.35100×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.1km az=138.9.
MOS Error ellipse: s-maj=10.8km s-min=9.0km az=156.3.
ISC V 14 07 07 17.5–.56 20.3S–.10 168.3E–.10 26 4.7b,3.9s 69 2-166
IDC V 14 07 07 13.2–.85 20.31S 168.38E 0 4.7,4.6b ¶16560062
GCMT V 14 07 07 14.9–.20 20.28S 168.20E 12 5.1W,4.6b
NEIC V 14 07 07 14.9–.38 20.25S 168.36E 10 5.2b,4.6b
ISCJB V 14 07 07 16.4–.29 20.28S–.07 168.19E–.06 26 4.7b,3.9s
ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c33; s96,c148;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.12±.12 $M_{\theta\theta}$0.70±.13; $M_{\phi\phi}$4.42±.11; $M_{r\theta}$-3.16±.44; $M_{\theta\phi}$-1.32±.09; $M_{\phi r}$1.01±.41; Best double couple: NP1:ϕ_s139.00000°,δ60.00000°,λ-113.00000°. NP2:ϕ_s359.00000°,δ37.00000°,λ-56.00000°. Principal axes: T 5.2560,Plg12.0000°,Azm246.0000°; N 1.2670,Plg20.0000°,Azm151.0000°; P -6.5200,Plg67.0000°,Azm5.0000° M_o5.88800×10^{16}
NEIC Event type se.
ISCJB Event type se.
ISC V 14 07 13 52.7–.50 20.23S–.09 168.04E–.10 27 4.4b 32 2-165
IDC V 14 07 13 48.4–.77 20.27S 168.10E 0 4.4,4.3 ¶16591580
ISCJB V 14 07 13 51.0–.41 20.21S–.07 168.06E–.08 27 4.4b,4.3
NEIC V 14 07 13 52.1–3.2 20.18S 168.03E 23–23 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=17.0km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=7.4km az=40.9.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.0km az=160.0.
ISC V 14 07 35 15.1–.64 20.7S–.10 168.4E–.10 26 4.5b,3.6s 33 2-165
IDC V 14 07 35 10.7–.99 20.67S 168.38E 0 4.4,4.3 ¶16591581
NEIC V 14 07 35 12.3–.46 20.68S 168.46E 10 4.9b,4.3
ISCJB V 14 07 35 13.3–.52 20.69S–.09 168.36E–.09 26 4.5b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 14 07 36 37.9–1.6 20.3S–.20 168.3E–.30 25 4.0b 8 2-90
IDC V 14 07 36 34.3–1.9 20.13S 168.25E 0 4.4,4.2 ¶17203593
ISCJB V 14 07 36 36.9–1.4 20.2S–.20 168.1E–.30 25 4.1b,4.2

ISC Event type ke.
ISCJB Event type ke.
ISC V 14 07 53 19.3–1.3 20.3S–.30 168.3E–.30 25 3.9b 10 2-145
IDC V 14 07 53 15.6–1.5 20.22S 168.32E 0 4.3,4.1b **¶17203596**
ISCJB V 14 07 53 18.2–1.2 20.2S–.20 168.2E–.20 25 3.9b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC V 14 10 42 24.4–.68 20.3S–.20 168.31E–.09 26 4.3b,3.2s 18 2-145
IDC V 14 10 42 20.8–1.2 20.20S 168.32E 0 4.3,4.1 **¶16681498**
ISCJB V 14 10 42 22.4–.53 20.3S–.10 168.38E–.08 26 4.3b,3.2s
NEIC V 14 10 42 22.4–.55 20.22S 168.24E 10 4.9b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=59.6km s-min=19.3km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=6.5km az=152.7.
NEIC Event type se. Error ellipse: s-maj=23.1km s-min=9.2km az=156.0.
ISC V 14 13 43 00.2–1.3 20.5S–.20 168.3E–.20 26 4.0b,3.3s 10 2-92
IDC V 14 13 42 56.2–1.5 20.41S 168.27E 0 4.2,4.0 **¶16709852**
NEIC V 14 13 42 57.7–1.1 20.43S 168.28E 10 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=47.9km s-min=21.4km az=140.0.
NEIC Event type se. Error ellipse: s-maj=29.9km s-min=16.2km az=141.0.
ISC V 14 15 54 06.1–.96 20.6S–.20 168.4E–.20 26 3.9b 13 2-145
ISCJB V 14 15 54 04.6–.94 20.5S–.20 168.2E–.20 26 3.9b **¶17203620**
IDC V 14 15 54 07.4–1.4 20.65S 168.38E 36–7 4.0,4.0
ISC Event type se.
ISCJB Event type ke. Error ellipse: s-maj=29.9km s-min=11.8km az=136.2.
IDC Error ellipse: s-maj=58.1km s-min=20.0km az=145.0.
ISC V 14 22 25 16.5–1.1 20.48S–.09 167.3E–.20 35 4.1s,4.0b 12 2-99
IDC V 14 22 25 11.9–10 20.44S 167.18E 0 4.1,4.0 **¶16587333**
NEIC V 14 22 25 13.1–.68 20.48S 167.28E 10 4.5b,4.0
ISCJB V 14 22 25 14.8–.83 20.40S–.07 167.2E–.10 33 4.1b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 15 03 51 37.7–4.1 20.50S 168.27E 0 4.1,3.8
¶17203660
IDC Error ellipse: s-maj=112.2km s-min=31.1km az=126.0.
ISC V 15 23 33 22.0–1.3 20.5S–.20 168.9E–.20 31 4.0b 11 3-79
IDC V 15 23 33 16.8–6.0 20.45S 169.00E 0 4.1,4.0b **¶16590018**
NEIC V 15 23 33 18.7–.89 20.50S 168.95E 10 4.1b,4.0b
ISCJB V 15 23 33 19.9–1.1 20.6S–.20 168.9E–.20 31 4.1b,4.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 16 08 49 58.6–10.0 20.26S 167.63E 40–10 3.9,3.9
¶17203736
IDC Error ellipse: s-maj=169.8km s-min=36.2km az=90.0.
ISC V 16 11 57 35.0–1.4 20.3S–.30 168.3E–.30 25 4.0b 7 2-92
IDC V 16 11 57 31.4–1.6 20.20S 168.28E 0 4.2,4.0b **¶17203746**
ISCJB V 16 11 57 33.9–1.3 20.2S–.20 168.2E–.30 25 3.9b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC V 16 12 34 34.6–10 20.16S 167.93E 0 4.0,3.9b
¶17203751
IDC Error ellipse: s-maj=177.8km s-min=42.4km az=96.0.
ISC V 16 19 14 07.4–.25 20.45S–.05 168.33E–.05 26 5.3b,4.3s 577 2-165
IDC V 16 19 14 03.2–.38 20.48S 168.42E 0 5.1,5.1L **¶16523239**
NEIC V 16 19 14 05.0–.13 20.39S 168.33E 10 5.4b,5.1L
GCMT V 16 19 14 05.0–.20 20.36S 168.27E 13–0 5.1W,5.1L
ISCJB V 16 19 14 06.1–.13 20.41S–.03 168.31E–.02 26 5.2b,4.3s
BJI V 16 19 14 06.6 19.99S 168.31E 19 5.2b,5.0b
MOS V 16 19 14 06.7–1.3 20.44S 168.34E 33 5.4b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=12.3km az=128.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=154.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c107; s97,c172; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.45±.16 $M_{\theta\theta}$1.06±.11; $M_{\phi\phi}$4.39±.12; $M_{r\theta}$-0.28±.28; $M_{\theta\phi}$1.99±.08; $M_{\phi r}$0.58±.26; Best double couple: NP1:ϕ_s200.00000°,δ47.00000°,λ-97.00000°. NP2:ϕ_s30.00000°,δ43.00000°,λ-83.00000°. Principal axes: T 5.3350,Plg2.0000°,Azm295.0000°; N 0.1740,Plg5.0000°,Azm205.0000°; P -5.5090,Plg85.0000°,Azm48.0000° $M_0$5.42200×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=157.4.
MOS Error ellipse: s-maj=17.9km s-min=11.2km az=163.6.
ISC V 16 19 18 23.6–.43 20.43S–.06 168.31E–.05 31–2 5.2b,4.4s 294 2-165
IDC V 16 19 18 19.4–.56 20.47S 168.29E 0 4.8,4.8 **¶16523240**
NEIC V 16 19 18 20.6–.27 20.43S 168.35E 10 5.5b,4.8
GCMT V 16 19 18 20.6–.20 20.42S 168.28E 17–0 5.1W,4.8
MOS V 16 19 18 21.8–1.8 20.25S 168.36E 33 5.5b,4.8
ISCJB V 16 19 18 23.0–.21 20.47S–.04 168.31E–.04 37 5.1b,4.5s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c59; s91,c139;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.17±.22 $M_{\theta\theta}$0.98±.14; $M_{\phi\phi}$4.19±.15; $M_{r\theta}$0.32±.38; $M_{\theta\phi}$-1.95±.09; $M_{\phi r}$-1.21±.35; Best double couple: NP1:ϕ_s337.00000°,δ52.00000°,λ-87.00000°. NP2:ϕ_s152.00000°,δ38.00000°,λ-94.00000°. Principal axes: T 5.2560,Plg7.0000°,Azm65.0000°; N 0.0710,Plg2.0000°,Azm155.0000°; P -5.3250,Plg83.0000°,Azm265.0000° $M_0$5.29000×10^{16}
ISCJB Event type se.
ISC V 16 19 34 42.6–1.7 20.6S–.30 168.3E–.30 26 4.0b 8 2-145
IDC V 16 19 34 38.9–1.7 20.53S 168.31E 0 4.3,4.1 **¶17203767**
ISC Event type ke.
IDC Error ellipse: s-maj=65.4km s-min=22.4km az=141.0.
IDC V 16 19 55 41.7–2.0 20.47S 168.37E 0 4.2,4.0
¶17203768
IDC Error ellipse: s-maj=110.9km s-min=29.8km az=145.0.
IDC V 16 20 18 26.8–5.4 20.21S 167.70E 0 4.0,3.8
¶17203769
IDC Error ellipse: s-maj=109.5km s-min=31.0km az=102.0.
IDC V 16 21 40 41.4–10 20.37S 167.59E 0 4.1,4.0
¶17203774
IDC Error ellipse: s-maj=180.8km s-min=38.8km az=92.0.
ISC V 16 22 04 36.3–.94 20.6S–.20 168.3E–.20 26 4.9b 31 2-165
IDC V 16 22 04 32.1–1.3 20.66S 168.41E 0 4.4,4.2 **¶16710048**
NEIC V 16 22 04 33.9–.53 20.60S 168.31E 10 4.9b,4.2
ISCJB V 16 22 04 35.1–.61 20.5S–.10 168.2E–.10 26 4.9b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 16 22 09 03.4–10 20.35S 167.76E 0 4.1,4.0b
¶17203776
IDC Error ellipse: s-maj=179.2km s-min=41.4km az=96.0.
IDC V 17 18 51 19.0–2.0 20.43S 167.90E 0 4.0,3.7
¶17203833
IDC Error ellipse: s-maj=62.2km s-min=26.9km az=138.0.
ISC V 18 21 20 13.8–.44 20.19S–.08 168.3E–.10 25 4.8b,3.7s 89 3-152
IDC V 18 21 20 09.6–.74 20.24S 168.48E 0 4.5,4.4 **¶16710225**
NEIC V 18 21 20 11.6–.24 20.14S 168.37E 10 4.9b,4.4
ISCJB V 18 21 20 12.4–.28 20.22S–.06 168.31E–.06 25 4.7b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 19 03 42 05.9–.94 20.3S–.10 168.3E–.20 26 4.1b,3.5s 15 2-145
IDC V 19 03 42 01.8–1.4 20.31S 168.30E 0 4.3,4.1 **¶17203939**
ISCJB V 19 03 42 04.6–.78 20.2S–.10 168.2E–.20 26 4.1b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 04 12 15.9–.75 20.3S–.10 168.3E–.10 26 4.1b,3.7s 19 2-145
IDC V 19 04 12 11.9–1.0 20.27S 168.38E 0 4.4,4.2 **¶16545171**
ISCJB V 19 04 12 14.4–.65 20.29S–.09 168.3E–.10 26 4.1b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 07 19 40.6–.40 20.33S–.08 168.44E–.06 25 4.7b 103 3-165
IDC V 19 07 19 37.0–.69 20.23S 168.38E 0 4.5,4.4 **¶16710270**
NEIC V 19 07 19 38.5–.22 20.23S 168.36E 10 5.0b,4.4
ISCJB V 19 07 19 39.3–.25 20.35S–.06 168.35E–.05 25 4.8b,4.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 19 07 20 22.5–1.3 20.4S–.20 168.4E–.20 26 4.5b 12 3-165
IDC V 19 07 20 19.1–1.6 20.19S 168.46E 0 4.7,4.4b **¶17203949**
ISCJB V 19 07 20 21.2–1.4 20.3S–.20 168.4E–.20 26 4.4b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 12 25 19.6–.35 20.30S–.06 168.29E–.06 26 4.8b,3.9s 135 2-165
IDC V 19 12 25 15.9–.62 20.32S 168.31E 0 4.5,4.4 **¶16530704**
NEIC V 19 12 25 17.0–.18 20.40S 168.39E 10 5.0b,4.4
ISCJB V 19 12 25 18.2–.21 20.31S–.05 168.25E–.04 26 4.7b,3.8s
BJI V 19 12 25 20.6 20.00S 168.68E 49 4.9b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=15.3km az=133.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.6km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=148.9.
IDC V 20 11 12 24.4–72 20.26S 167.76E 0 4.1,4.0
¶17204033
IDC Error ellipse: s-maj=1206.0km s-min=109.0km az=76.0.
ISC V 21 05 06 26.8–1.5 20.5S–.50 168.3E–.30 32 4.0b,3.3s 14 23-145
ISCJB V 21 05 06 25.4–1.6 20.5S–.40 168.2E–.30 32 4.0b,3.1s **¶17204111**
IDC V 21 05 06 26.9–1.5 20.62S 168.34E 37–6 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=69.5km s-min=20.0km az=150.9.
IDC Error ellipse: s-maj=80.5km s-min=17.5km az=156.0.
IDC V 22 21 56 11.7–1.4 20.35S 168.82E 0 4.1,4.0L
¶17204260
IDC Error ellipse: s-maj=40.5km s-min=30.3km az=53.0.
ISC V 24 11 50 48.2–.76 20.4S–.10 168.3E–.10 26 4.2b 16 2-145
IDC V 24 11 50 44.3–1.1 20.27S 168.33E 0 4.2,4.1 **¶16710812**
NEIC V 24 11 50 45.6–.76 20.27S 168.31E 10 4.3b,4.1
ISCJB V 24 11 50 46.6–.64 20.35S–.09 168.31E–.08 26 4.1b,3.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 28 06 42 05.3–.35 20.11S–.06 168.51E–.06 25 5.0b,4.3s 214 3-159
IDC V 28 06 42 00.8–.72 19.93S 168.56E 0 4.6,4.6 **¶16551286**
BJI V 28 06 42 01.3 19.81S 168.86E 10 5.2b,5.2s
ISCJB V 28 06 42 03.4–.22 20.01S–.05 168.59E–.04 25 4.9b,4.3s
MOS V 28 06 42 04.7–1.2 20.00S 168.48E 33 5.2b,4.3s
GCMT V 28 06 42 06.6–.20 20.17S 168.41E 20–0 5.1W,4.3s
NEIC V 28 06 42 06.6–1.2 20.06S 168.53E 38–10 5.1b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=18.4km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.9km az=143.6.
MOS Error ellipse: s-maj=11.4km s-min=9.5km az=151.5.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c71; s88,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.48±.19 $M_{\theta\theta}$-1.01±.13; $M_{\phi\phi}$-3.47±.13; $M_{r\theta}$1.54±.26; $M_{\theta\phi}$1.59±.08; $M_{\phi r}$-3.03±.24; Best double couple: NP1:ϕ_s153.00000°,δ64.00000°,λ90.00000°. NP2:ϕ_s334.00000°,δ26.00000°,λ91.00000°. Principal axes: T 5.6470,Plg71.0000°,Azm63.0000°; N -0.2300,Plg0.0000°,Azm154.0000°; P -5.4170,Plg19.0000°,Azm244.0000° $M_0$5.53200×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.8km az=163.0.
ISC V 29 00 21 47.2–.72 20.19S–.09 168.0E–.10 27 4.2b 19 2-98
IDC V 29 00 21 43.2–1.8 20.20S 167.96E 0 4.1,3.9 **¶16632925**
ISCJB V 29 00 21 45.6–.58 20.13S–.07 167.9E–.10 27 4.2b,3.9
NEIC V 29 00 21 45.2–2.7 20.21S 167.96E 14–17 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=40.0km s-min=26.9km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=7.8km az=31.2.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.2km az=126.0.
ISC V 30 11 46 17.7–.59 20.37S–.09 168.09E–.09 32 4.3b,3.7s 26 2-165
IDC V 30 11 46 12.4–.91 20.33S 168.20E 0 4.5,4.3 **¶16554083**
ISCJB V 30 11 46 15.8–.52 20.34S–.08 168.11E–.08 32 4.3b,3.6s
NEIC V 30 11 46 16.4–3.7 20.30S 168.03E 24–27 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=29.0km s-min=20.1km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=8.4km az=138.8.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=11.3km az=163.0.
IDC V 30 11 59 15.1–1.9 20.28S 167.87E 36–9 4.0,4.0
¶17204759
IDC Error ellipse: s-maj=49.2km s-min=25.2km az=137.0.
ISC V 30 12 14 13.0–1.2 20.5S–.20 168.3E–.20 32 3.9b 15 2-96
ISCJB V 30 12 14 11.8–1.2 20.4S–.20 168.2E–.30 32 4.0b,3.0s **¶16554084**
IDC V 30 12 14 13.7–1.3 20.37S 168.22E 33–6 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=44.0km s-min=10.2km az=40.0.
IDC Error ellipse: s-maj=50.3km s-min=17.0km az=143.0.
IDC V 31 09 42 43.1–4.0 20.90S 168.03E 0 4.0,3.8
¶17204820
IDC Error ellipse: s-maj=121.2km s-min=27.1km az=131.0.
ISC V 31 10 09 54.4–.55 20.27S–.09 168.3E–.10 26 4.3b,3.4s 42 2-148
NEIC V 31 10 09 51.7–.40 20.20S 168.36E 10 4.5b,3.4s **¶16554189**
ISCJB V 31 10 09 52.5–.49 20.25S–.08 168.30E–.09 26 4.3b,3.4s
IDC V 31 10 09 55.8–.76 20.27S 168.33E 39–5 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.1km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=8.4km az=39.2.
IDC Error ellipse: s-maj=25.6km s-min=14.9km az=140.0.
IDC V 31 10 13 09.3–10 20.19S 167.76E 0 3.8,3.7b
¶17204823
IDC Error ellipse: s-maj=184.5km s-min=41.7km az=94.0.
IDC V 31 10 15 11.9–10 20.13S 167.70E 0 3.7,3.6b
¶17204824
IDC Error ellipse: s-maj=188.7km s-min=40.8km az=92.0.
ISC VI 01 04 17 44.8–.57 21.58S–.09 168.64E–.08 20 4.4b,3.6s 39 2-149
IDC VI 01 04 17 41.6–.86 21.68S 168.71E 0 4.4,4.3 **¶16640726**
ISCJB VI 01 04 17 42.7–.54 21.65S–.09 168.69E–.07 20 4.4b,3.6s
NEIC VI 01 04 17 43.1–.46 21.64S 168.68E 10 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=17.9km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=9.1km az=172.3.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=10.0km az=154.0.
IDC VI 02 05 34 00.4–3.9 20.44S 168.38E 137–44 3.8,3.6
¶17204947
IDC Error ellipse: s-maj=100.0km s-min=30.5km az=161.0.
ISC VI 03 04 06 59.6–1.2 20.2S–.20 168.3E–.20 27 4.1b 11 3-165
IDC VI 03 04 06 55.6–1.3 20.04S 168.25E 0 4.4,4.2s **¶603482745**
ISCJB VI 03 04 06 58.9–1.4 20.1S–.20 168.1E–.20 27 4.2s,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 03 04 07 05.6–.47 20.28S–.06 168.39E–.05 31–2 5.1b 397 3-165
IDC VI 03 04 06 59.3–.63 20.44S 168.55E 0 4.7,4.6 **¶16856167**
ISCJB VI 03 04 07 03.3–2.7 20.15S–.05 168.39E–.04 24–19 5.0b,4.6s
MOS VI 03 04 07 03.5–.96 20.16S 168.32E 25 5.3b,4.6s
GCMT VI 03 04 07 04.3–.20 20.05S 168.12E 18–1 5.0W,4.6s
NEIC VI 03 04 07 04.3–2.6 20.21S 168.30E 24–18 5.2b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=14.9km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.2km az=171.3.
MOS Error ellipse: s-maj=11.8km s-min=9.0km az=153.9.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s80,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.93±.24 $M_{\theta\theta}$0.33±.14; $M_{\phi\phi}$3.60±.15; $M_{r\theta}$0.22±.44; $M_{\theta\phi}$-0.48±.10; $M_{\phi r}$2.61±.30; Best double couple: NP1:ϕ_s179.00000°,δ62.00000°

,λ-84.00000°. NP2:ϕ_s346.00000°,δ28.00000°,λ-101.00000°. Principal axes:
T 4.4550,Plg17.0000°,Azm264.0000°; N 0.3200,Plg5.0000°,Azm356.0000°
; P -4.7700,Plg72.0000°,Azm103.0000° $M_0$4.61300×10^{16}

NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.6km az=169.0.

ISC	**VI**	**03 04 11 42.3–.85**	**20.3S–.20**	**168.4E–.20**	**25**	**4.1b**	**22**	**3-149**
IDC	VI	03 04 11 38.4–1.5	20.11S	168.48E	0	4.2,3.9		¶16646367
NEIC	VI	03 04 11 40.1–.50	20.20S	168.45E	10	4.4b,3.9		
ISCJB	VI	03 04 11 41.2–.74	20.2S–.10	168.3E–.10	25	4.1b,3.9		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**VI**	**03 04 33 42.5–2.9**	**20.15S**	**168.49E**	**0**	**3.9,3.6**		
								¶17205057
IDC	Error ellipse: s-maj=92.9km s-min=40.8km az=139.0.							
ISC	**VI**	**03 07 08 16.5–.69**	**20.3S–.10**	**168.5E–.10**	**26**	**4.2b,3.3s**	**27**	**3-149**
IDC	VI	03 07 08 12.5–.96	20.23S	168.44E	0	4.3,4.1		¶16640730
NEIC	VI	03 07 08 14.0–.59	20.28S	168.52E	10	4.6b,4.1		
ISCJB	VI	03 07 08 15.0–.57	20.32S–.10	168.4E–.10	26	4.2b,3.4s		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**VI**	**03 09 18 22.0–1.4**	**20.2S–.30**	**168.2E–.30**	**27**	**3.7b**	**7**	**2-91**
IDC	VI	03 09 18 18.3–1.5	19.89S	168.14E	0	3.9,3.6		¶17205083
ISCJB	VI	03 09 18 20.8–1.2	20.1S–.20	168.1E–.30	27	3.6b,3.1s		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**VI**	**03 14 47 12.9–.41**	**20.28S–.07**	**168.22E–.07**	**28–2**	**5.0b,3.9s**	**162**	**2-165**
GCMT	VI	03 14 47 09.4–.40	20.09S	168.16E	22–1	4.9W,3.9s		¶16556050
NEIC	VI	03 14 47 09.4–.22	20.16S	168.21E	10	5.1b,3.9s		
ISCJB	VI	03 14 47 12.6–.22	20.34S–.06	168.27E–.04	42	4.8b,3.8s		
IDC	VI	03 14 47 14.0–.60	20.19S	168.23E	40–3	4.4,4.4		
BJI	VI	03 14 47 15.2	19.71S	168.37E	47	5.2s,5.0b		
ISC	Event type se.							

GCMT Error ellipse: s-maj=2.2km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c25; s56,c79; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.73±.22 $M_{\theta\theta}$0.49±.12; $M_{\phi\phi}$2.24±.13; $M_{r\theta}$-0.40±.27; $M_{\theta\phi}$0.10±.08; $M_{\phi r}$-0.00±.18; Best double couple: NP1:ϕ_s10.00000°,δ46.00000° ,λ-80.00000°. NP2:ϕ_s177.00000°,δ45.00000°,λ-100.00000°. Principal axes: T 2.2460,Plg0.0000°,Azm93.0000°; N 0.5310,Plg7.0000°,Azm183.0000° ; P -2.7780,Plg83.0000°,Azm1.0000° $M_0$2.51200×10^{16}

NEIC	Event type se. Error ellipse: s-maj=9.1km s-min=5.7km az=155.0.							
ISCJB	Event type se. Error ellipse: s-maj=9.3km s-min=5.2km az=156.7.							
IDC	Error ellipse: s-maj=19.4km s-min=12.1km az=139.0.							
ISC	**VI**	**04 16 43 23.3–.45**	**20.37S–.09**	**168.33E–.09**	**26**	**4.3b,3.9s**	**83**	**2-165**
IDC	VI	04 16 43 19.8–.76	20.27S	168.32E	0	4.3,4.3L		¶16578066
ISCJB	VI	04 16 43 21.9–.25	20.34S–.07	168.33E–.06	26	4.4b,3.8s		
NEIC	VI	04 16 43 21.1–.38	20.28S	168.36E	10	5.1b,3.8s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=27.5km s-min=17.6km az=127.0.							
ISCJB	Event type se. Error ellipse: s-maj=11.4km s-min=5.7km az=142.8.							
NEIC	Event type se. Error ellipse: s-maj=12.8km s-min=9.2km az=141.0.							
IDC	**VI**	**08 03 18 36.4–4.8**	**21.05S**	**168.13E**	**0**	**4.0,3.7**		
								¶17205525
IDC	Error ellipse: s-maj=146.9km s-min=33.7km az=136.0.							
ISC	**VI**	**08 04 27 48.6–.26**	**20.37S–.05**	**168.35E–.05**	**26**	**5.3b,4.3s**	**534**	**2-165**
IDC	VI	08 04 27 44.5–.45	20.29S	168.48E	0	5.1,4.9		¶16720882
GCMT	VI	08 04 27 46.4–.30	20.37S	168.27E	22–0	5.2W,4.9		
NEIC	VI	08 04 27 46.4–.11	20.21S	168.37E	10	5.4b,4.9		
ISCJB	VI	08 04 27 47.5–.12	20.25S–.03	168.34E–.03	26	5.3b,4.3s		
MOS	VI	08 04 27 48.4–.97	20.31S	168.36E	33	5.4b,4.5s		
BJI	VI	08 04 27 49.7	19.36S	167.79E	6	5.3b,5.1s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=16.0km s-min=14.3km az=111.0.							

GCMT Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c35; s77,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-7.25±.46 $M_{\theta\theta}$2.00±.27; $M_{\phi\phi}$5.26±.28; $M_{r\theta}$-0.89±.48; $M_{\theta\phi}$-1.45±.14; $M_{\phi r}$0.53±.38; Best double couple: NP1:ϕ_s155.00000°,δ49.00000° ,λ-96.00000°. NP2:ϕ_s343.00000°,δ42.00000°,λ-84.00000°. Principal axes: T 5.8620,Plg4.0000°,Azm249.0000°; N 1.4950,Plg4.0000°,Azm158.0000° ; P -7.3470,Plg85.0000°,Azm19.0000° $M_0$6.60400×10^{16}

NEIC	Event type se. Error ellipse: s-maj=4.3km s-min=3.6km az=139.0.							
ISCJB	Event type se. Error ellipse: s-maj=4.4km s-min=3.2km az=152.9.							
MOS	Error ellipse: s-maj=8.8km s-min=7.4km az=146.0.							
ISC	**VI**	**08 21 46 02.1–.33**	**20.33S–.05**	**168.32E–.05**	**32–1**	**5.3b,4.5s**	**593**	**2-165**
IDC	VI	08 21 45 56.8–.50	20.34S	168.43E	0	4.9,4.8		¶16720887
GCMT	VI	08 21 45 58.9–.10	20.20S	168.21E	12	5.1W,4.8		
NEIC	VI	08 21 45 58.9–.12	20.21S	168.38E	10	5.3b,4.8		
MOS	VI	08 21 46 01.4–1.1	20.14S	168.24E	33	5.6b,4.8		
ISCJB	VI	08 21 46 01.4–1.4	20.25S–.04	168.33E–.03	36–12	5.2b,4.6s		
BJI	VI	08 21 46 05.3	19.57S	168.31E	46	5.3s,5.2b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=17.5km s-min=13.3km az=115.0.							

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c103; s110,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.52±.09 $M_{\theta\theta}$0.01±.10; $M_{\phi\phi}$5.51±.08; $M_{r\theta}$0.29±.28; $M_{\theta\phi}$-0.55±.08; $M_{\phi r}$2.04±.25; Best double couple: NP1:ϕ_s179.00000°,δ55.00000° ,λ-85.00000°. NP2:ϕ_s350.00000°,δ35.00000°,λ-98.00000°. Principal axes: T 5.9170,Plg10.0000°,Azm265.0000°; N -0.0030,Plg4.0000°,Azm356.0000° ; P -5.9100,Plg79.0000°,Azm110.0000° $M_0$5.91300×10^{16}

NEIC	Event type se. Error ellipse: s-maj=4.6km s-min=4.0km az=138.0.							
MOS	Error ellipse: s-maj=8.8km s-min=8.0km az=56.6.							
ISCJB	Event type se. Error ellipse: s-maj=6.4km s-min=4.7km az=9.9.							
ISC	**VI**	**08 22 27 43.8–.34**	**20.37S–.07**	**168.27E–.07**	**26**	**4.9b**	**162**	**10-165**
IDC	VI	08 22 27 39.6–.74	20.34S	168.36E	0	4.5,4.3		¶16580630
ISCJB	VI	08 22 27 42.0–.20	20.35S–.05	168.23E–.04	26	4.9b,3.5s		
NEIC	VI	08 22 27 44.0–.79	20.35S	168.30E	30–5	4.9b,3.5s		
BJI	VI	08 22 27 47.7	20.30S	168.20E	59	5.0b,4.8b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=24.1km s-min=17.1km az=124.0.							
ISCJB	Event type se. Error ellipse: s-maj=6.9km s-min=5.5km az=151.9.							
NEIC	Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=148.0.							
ISC	**VI**	**09 03 21 08.5–.45**	**20.46S–.06**	**168.28E–.07**	**31–2**	**4.8b,3.8s**	**113**	**2-165**
ISCJB	VI	09 03 21 04.4–3.6	20.39S–.05	168.32E–.05	14–22	4.6b,3.7s		¶16580434
NEIC	VI	09 03 21 05.2–.22	20.30S	168.34E	10	4.8b,3.7s		
BJI	VI	09 03 21 07.0	20.11S	168.58E	27	5.0b,5.0s		
IDC	VI	09 03 21 09.5–.58	20.33S	168.29E	36–3	4.4,4.4		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=9.5km s-min=7.5km az=153.2.							
NEIC	Event type se. Error ellipse: s-maj=7.0km s-min=6.3km az=156.0.							
IDC	Error ellipse: s-maj=17.8km s-min=13.3km az=116.0.							
IDC	**VI**	**24 16 10 13.8–11**	**20.02S**	**167.47E**	**0**	**3.8,3.6**		
								¶17206880
IDC	Error ellipse: s-maj=196.9km s-min=37.8km az=85.0.							

(189) Southeast of Loyalty Islands.

ISC	**I**	**04 17 50 21.2–2.1**	**21.3S–.50**	**170.1E–.30**	**150**	**3.3b**	**15**	**4-149**
IDC	I	04 17 50 21.9–5.1	21.33S	170.07E	152–32	3.6,3.4		¶17189443
ISC	Event type ke.							
IDC	Error ellipse: s-maj=69.7km s-min=37.0km az=143.0.							
ISC	**I**	**05 06 46 15.4–.23**	**22.30S–.03**	**171.68E–.03**	**123–1**	**5.9b**	**1433**	**4-169**
GCMT	I	05 06 46 14.6–.10	22.48S	171.58E	126–0	6.1W		¶16021252
ISCJB	I	05 06 46 14.7–.59	22.34S–.02	171.56E–.02	125–5	5.9b		
NEIC	I	05 06 46 14.6–.10	22.26S	171.63E	112	6.1W,5.8b		
IDC	I	05 06 46 14.9–.29	22.27S	171.63E	117–2	5.9,5.6		
BJI	I	05 06 46 16.2	22.30S	171.60E	136	6.1b,5.8b		
NEIC	I	05 06 46 17.0–.00	22.30S	171.60E	135	6.1b,5.8b		
MOS	I	05 06 46 17.1–1.4	22.24S	171.56E	143	5.8b,5.3s		
ISC	Event type fe.							

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s137,c320; s141,c511;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.53±.01 $M_{\theta\theta}$-1.18±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$0.94±.01; $M_{\theta\phi}$0.63±.01; $M_{\phi r}$0.77±.01; Best double couple: NP1:ϕ_s68.00000°,δ77.00000°,λ48.00000°. NP2:ϕ_s324.00000° ,δ44.00000°,λ161.00000°. Principal axes: T 1.7750,Plg42.0000°,Azm298.0000° ; N -0.1430,Plg41.0000°,Azm80.0000°; P -1.6330,Plg21.0000°,Azm189.0000° $M_0$1.70400×10^{18}

ISCJB	Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=10.8.							
NEIC	Event type fe. Error ellipse: s-maj=3.6km s-min=3.2km az=118.0. Felt at Noumea and We, New Caledonia.							
IDC	Error ellipse: s-maj=8.0km s-min=6.4km az=174.0.							

NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ80.00000° ,λ53.00000°. NP2:ϕ_s323.00000°,δ37.00000°,λ164.00000°. Principal axes: T 1.6000,Plg43.0000°,Azm301.0000°; N -0.2200,Plg36.0000°,Azm73.0000° ; P -1.3800,Plg26.0000°,Azm184.0000°

MOS	Error ellipse: s-maj=8.4km s-min=7.0km az=123.1.							
ISC	**I**	**08 11 51 42.7–1.3**	**22.2S–.40**	**173.3E–.10**	**40**	**4.0s,3.8b**	**12**	**6-168**
IDC	I	08 11 51 36.8–1.5	22.20S	173.30E	0	4.0,3.9		¶15930120
NEIC	I	08 11 51 38.2–1.0	22.26S	173.33E	10	4.0,3.9		
GCMT	I	08 11 51 44.0–.30	22.08S	173.30E	14–1	4.9W,3.9		
ISC	Event type se.							
IDC	Error ellipse: s-maj=65.3km s-min=23.5km az=158.0.							
NEIC	Event type se. Error ellipse: s-maj=44.6km s-min=15.6km az=162.0.							

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c21; s67,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.68±.13 $M_{\theta\theta}$-0.32±.11; $M_{\phi\phi}$1.00±.10; $M_{r\theta}$-0.06±.21; $M_{\theta\phi}$2.25±.08; $M_{\phi r}$0.38±.19; Best double couple: NP1:ϕ_s173.00000°,δ85.00000° ,λ-169.00000°. NP2:ϕ_s82.00000°,δ79.00000°,λ-5.00000°. Principal axes: T 2.7080,Plg5.0000°,Azm307.0000°; N -0.6480,Plg78.0000°,Azm195.0000° ; P -2.0600,Plg12.0000°,Azm38.0000° $M_0$2.38400×10^{16}

IDC	**I**	**09 17 40 16.1–7.2**	**22.01S**	**171.13E**	**0**	**4.1,4.0**		
								¶17189780
IDC	Error ellipse: s-maj=217.2km s-min=52.5km az=145.0.							
ISC	**I**	**10 23 26 30.9–.49**	**22.23S–.08**	**171.61E–.08**	**105**	**4.7b**	**103**	**5-167**
ISCJB	I	10 23 26 30.4–.29	22.30S–.05	171.47E–.05	105	4.5b		¶16151021
IDC	I	10 23 26 32.3–2.8	22.31S	171.55E	114–23	4.5,4.3		
NEIC	I	10 23 26 34.7–1.4	22.32S	171.43E	134–13	4.7b,4.3		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=7.2km s-min=6.4km az=140.0.							
IDC	Error ellipse: s-maj=19.9km s-min=17.4km az=28.0.							
NEIC	Event type se. Error ellipse: s-maj=9.9km s-min=6.7km az=221.0.							
ISC	**I**	**13 07 41 52.1–.71**	**22.5S–.10**	**172.8E–.20**	**32**	**4.2b,4.1s**	**30**	**16-167**
GCMT	I	13 07 41 44.0–.50	22.20S	172.96E	15	4.9W,4.1s		¶15940514
IDC	I	13 07 41 47.1–.89	22.49S	172.81E	0	4.3,4.2		
NEIC	I	13 07 41 49.2–.55	22.39S	172.71E	10	4.3,4.2		
ISCJB	I	13 07 41 50.8–.64	22.4S–.10	172.7E–.10	32	4.3b,4.0s		
ISC	Event type se.							

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c30; s65,c82;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.94±.13 $M_{\theta\theta}$2.17±.14; $M_{\phi\phi}$-1.23±.12; $M_{r\theta}$1.06±.39; $M_{\theta\phi}$1.68±.08; $M_{\phi r}$-0.48±.35; Best double couple: NP1:ϕ_s288.00000°,δ77.00000°,λ-32.00000°. NP2:ϕ_s25.00000°,δ59.00000°,λ-165.00000°. Principal axes: T 3.0270,Plg12.0000°,Azm340.0000°; N -0.5860,Plg56.0000°,Azm88.0000° ; P -2.4380,Plg31.0000°,Azm242.0000° $M_0$2.73300×10^{16}

NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**I**	**14 06 38 41.7–2.7**	**22.59S**	**169.09E**	**0**	**4.3,4.1**		
								¶17190139
IDC	Error ellipse: s-maj=95.3km s-min=37.7km az=154.0.							
ISC	**I**	**14 23 41 32.7–.85**	**22.9S–.20**	**169.2E–.20**	**28**	**4.1b**	**10**	**13-146**
IDC	I	14 23 41 30.0–3.3	22.53S	169.05E	0	4.3,4.0b		¶16057162
NEIC	I	14 23 41 30.7–.66	23.08S	169.08E	10	4.3b,4.0b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=149.7km s-min=34.4km az=162.0.							
NEIC	Event type se. Error ellipse: s-maj=26.6km s-min=12.6km az=208.0.							
ISC	**I**	**16 20 03 08.6–.69**	**22.4S–.20**	**171.20E–.09**	**42**	**4.1b,3.8s**	**42**	**4-166**
NEIC	I	16 20 03 03.9–.59	22.31S	171.29E	10	4.2b,3.8s		¶15940536
ISCJB	I	16 20 03 07.4–.65	22.4S–.10	171.14E–.07	42	4.0b,3.8s		
IDC	I	16 20 03 09.0–4.4	22.42S	171.17E	42–37	4.2,4.2L		
ISC	Event type se.							
NEIC	Event type se. Error ellipse: s-maj=19.9km s-min=13.7km az=166.0.							
ISCJB	Event type se. Error ellipse: s-maj=19.8km s-min=9.8km az=178.5.							
IDC	Error ellipse: s-maj=30.6km s-min=24.7km az=14.0.							
ISC	**I**	**17 07 14 03.5–1.5**	**21.4S–.40**	**169.6E–.30**	**21**	**4.2b**	**9**	**33-166**
IDC	I	17 07 14 00.5–1.5	21.31S	169.51E	0	4.4,4.2		¶17190387
ISCJB	I	17 07 14 01.7–2.2	21.5S–.50	169.5E–.30	21	4.1b,4.2		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**21 20 55 30.8–1.2**	**22.7S–.40**	**171.1E–.10**	**42**	**3.7b**	**9**	**4-166**
IDC	I	21 20 55 24.6–1.3	22.75S	171.15E	0	4.1,3.9L		¶17190698
ISC	Event type ke.							
IDC	Error ellipse: s-maj=68.7km s-min=26.7km az=171.0.							
ISC	**I**	**23 14 58 13.8–1.1**	**21.7S–.30**	**170.5E–.10**	**35**	**4.1b**	**45**	**4-150**
IDC	I	23 14 58 06.4–1.5	21.85S	170.75E	0	5.4L,4.2		¶16020105
NEIC	I	23 14 58 12.4–4.2	21.79S	170.72E	39–29	4.1b,4.2		
ISC	Event type se.							
IDC	Error ellipse: s-maj=51.0km s-min=23.9km az=143.0.							
NEIC	Event type se. Error ellipse: s-maj=43.7km s-min=20.3km az=126.0.							
ISC	**II**	**08 18 00 59.0–1.7**	**22.2S–.50**	**169.3E–.10**	**25**	**3.8b**	**11**	**3-147**
IDC	II	08 18 00 53.5–2.0	22.62S	169.53E	0	4.0,3.8		¶17191903
ISC	Event type ke.							
IDC	Error ellipse: s-maj=86.0km s-min=23.8km az=168.0.							
IDC	**II**	**21 19 48 07.9–60**	**21.12S**	**169.82E**	**0**	**3.7,3.5**		
								¶17192655
IDC	Error ellipse: s-maj=1011.0km s-min=114.6km az=78.0.							
ISC	**II**	**26 00 11 15.6–.45**	**21.82S–.08**	**170.19E–.08**	**25**	**4.5b,4.4s**	**91**	**3-166**
IDC	II	26 00 11 11.8–.71	21.80S	170.21E	0	4.5,4.5		¶16363030
ISCJB	II	26 00 11 13.8–.37	21.82S–.06	170.18E–.06	25	4.6b,4.3s		
NEIC	II	26 00 11 13.2–.26	21.81S	170.25E	10	4.6b,4.3s		
GCMT	II	26 00 11 13.1–.20	21.98S	170.14E	14–1	5.0W,4.3s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=21.0km s-min=17.5km az=128.0.							
ISCJB	Event type se. Error ellipse: s-maj=9.2km s-min=6.9km az=153.7.							
NEIC	Event type se. Error ellipse: s-maj=7.4km s-min=5.9km az=139.0.							

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s53,c74; s97,c155; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.67±.12 $M_{\theta\theta}$1.26±.12; $M_{\phi\phi}$0.41±.10; $M_{r\theta}$-0.04±.23; $M_{\theta\phi}$4.65±.10; $M_{\phi r}$0.23±.23; Best double couple: NP1:ϕ_s183.00000°,δ87.00000° ,λ-176.00000°. NP2:ϕ_s93.00000°,δ86.00000°,λ-3.00000°. Principal axes: T 5.5080,Plg1.0000°,Azm318.0000°; N -1.6540,Plg85.0000°,Azm217.0000° ; P -3.8500,Plg5.0000°,Azm48.0000° $M_0$4.67900×10^{16}

ISC	**III**	**05 16 04 19.4–.69**	**21.2S–.20**	**170.6E–.10**	**250**	**3.9b**	**18**	**13-147**
NEIC	III	05 16 04 18.9–2.9	21.24S	170.54E	240–34	4.5b		¶16445695
IDC	III	05 16 04 18.1–4.4	21.19S	170.52E	230–50	4.2,4.1		
ISCJB	III	05 16 04 18.3–.55	21.3S–.10	170.54E–.08	250	4.0b,4.1		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**III**	**06 01 44 07.3–.55**	**23.11S–.06**	**170.62E–.06**	**43–4**	**5.0b,4.3s**	**466**	**12-166**
IDC	III	06 01 44 01.3–.51	22.98S	170.56E	0	4.8,4.8L		¶16461116
ISCJB	III	06 01 44 05.6–.19	23.10S–.04	170.43E–.04	37	5.0b,4.3s		
BJI	III	06 01 44 06.3	23.10S	170.40E	39	5.2b,5.0b		
NEIC	III	06 01 44 08.3–.58	23.06S	170.45E	50–5	5.1b,5.0b		
GCMT	III	06 01 44 08.4–.10	23.06S	170.42E	18–0	5.2W,5.0b		
MOS	III	06 01 44 10.4–1.4	22.90S	170.31E	67	5.2b,5.0b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=17.4km s-min=14.3km az=141.0.							
ISCJB	Event type se. Error ellipse: s-maj=6.0km s-min=4.8km az=163.7.							
NEIC	Event type se. Error ellipse: s-maj=5.2km s-min=4.3km az=170.0.							

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c135; s92,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.55±.15 $M_{\theta\theta}$6.65±.12; $M_{\phi\phi}$-0.10±.12; $M_{r\theta}$-1.42±.24; $M_{\theta\phi}$-2.62±.09; $M_{\phi r}$0.75±.28; Best double couple: NP1:ϕ_s111.00000°,δ51.00000° ,λ-87.00000°. NP2:ϕ_s286.00000°,δ39.00000°,λ-94.00000°. Principal axes: T 7.7230,Plg6.0000°,Azm199.0000°; N -0.9920,Plg2.0000°,Azm289.0000° ; P -6.7370,Plg83.0000°,Azm40.0000° $M_0$7.23000×10^{16}

MOS Error ellipse: s-maj=10.0km s-min=8.2km az=39.4.
IDC III 06 08 51 57.5–1.4 22.25S 171.86E 0 4.2,4.0
¶17193336

IDC Error ellipse: s-maj=57.1km s-min=24.8km az=147.0.
IDC III 07 12 36 18.1–3.5 21.09S 169.92E 0 4.3,3.9b
¶17193412

IDC Error ellipse: s-maj=203.3km s-min=30.0km az=158.0.
IDC III 08 03 09 05.0–2.8 22.25S 170.48E 0 4.0,3.8
¶17193448

IDC Error ellipse: s-maj=142.6km s-min=31.4km az=159.0.
IDC III 15 10 21 07.7–3.1 22.08S 170.49E 0 4.0,3.8
¶17196120

IDC Error ellipse: s-maj=116.8km s-min=30.7km az=143.0.
IDC III 15 21 48 54.9–6.1 21.23S 170.05E 0 3.7,3.5
¶17196264

IDC Error ellipse: s-maj=283.2km s-min=46.5km az=152.0.

ISC	**III**	**20 04 54 43.7–.72**	**21.0S–.20**	**169.6E–.10**	**30**	**4.1b,3.5s**	**27**	**3-149**	
ISCJB	III	20 04 54 42.0–.71	21.0S–.10	169.58E–.09	30	4.2b,3.4s			**¶16479644**
NEIC	III	20 04 54 45.2–2.2	21.01S	169.61E	48–17	4.3b,3.4s			
IDC	III	20 04 54 45.6–4.8	21.04S	169.52E	45–40	4.1,4.1			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=10.3km az=159.5.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=14.0km az=193.0.
IDC Error ellipse: s-maj=57.2km s-min=32.5km az=156.0.

ISC	**III**	**23 01 23 23.5–1.2**	**22.0S–.30**	**172.9E–.20**	**35**	**4.0b,3.2s**	**21**	**18-168**	
IDC	III	23 01 23 19.1–1.8	21.85S	172.72E	0	4.3,4.1b			**¶16480348**
ISCJB	III	23 01 23 21.8–2.7	22.1S–.50	172.8E–.40	33	4.1b,3.5s			
NEIC	III	23 01 23 23.4–.72	21.95S	172.83E	35	4.0b,3.5s			

ISC Event type se.
IDC Error ellipse: s-maj=68.5km s-min=29.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=94.5km s-min=24.9km az=144.5.
NEIC Event type se. Error ellipse: s-maj=33.8km s-min=17.5km az=157.0.
IDC III 25 05 39 05.8–17 22.59S 169.96E 0 3.9,3.7
¶17198456

IDC Error ellipse: s-maj=825.4km s-min=44.2km az=150.0.
IDC IV 02 08 27 31.0–3.5 22.69S 173.01E 0 4.0s,4.0
¶17199509

IDC Error ellipse: s-maj=133.3km s-min=42.4km az=157.0.

ISC	**IV**	**02 16 17 09.0–1.6**	**23.0S–.50**	**171.6E–.10**	**49**	**3.7b**	**8**	**5-149**	
IDC	IV	02 16 17 01.7–2.0	23.03S	171.68E	0	4.0,3.8L			**¶17199548**
ISCJB	IV	02 16 17 07.5–1.3	23.1S–.40	171.5E–.10	49	3.7b,3.4s			

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**18 12 26 24.5–.45**	**21.60S–.10**	**169.79E–.08**	**36**	**4.4b,3.9s**	**54**	**3-166**	
IDC	IV	18 12 26 19.2–.64	21.53S	169.86E	0	4.4,4.3			**¶16462840**
ISCJB	IV	18 12 26 22.8–.38	21.58S–.07	169.80E–.06	36	4.5b,3.9s			
NEIC	IV	18 12 26 24.5–1.1	21.60S	169.83E	37–10	4.7b,3.9s			

ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=16.8km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=7.6km az=160.3.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.7km az=145.0.

ISC	**IV**	**18 16 46 05.6–2.0**	**21.3S–.50**	**169.6E–.30**	**21**	**3.6b,3.5s**	**9**	**3-146**	
IDC	IV	18 16 46 01.9–3.6	21.26S	169.66E	0	3.8,3.7			**¶17201428**

ISC Event type ke.
IDC Error ellipse: s-maj=125.9km s-min=35.0km az=143.0.

ISC	**IV**	**19 11 33 21.3–.34**	**21.65S–.07**	**169.71E–.05**	**35**	**4.8b,4.2s**	**166**	**3-166**	
IDC	IV	19 11 33 14.9–.66	21.59S	169.92E	0	4.6,4.5			**¶16446883**
ISCJB	IV	19 11 33 19.6–.30	21.63S–.05	169.77E–.05	35	4.8b,4.2s			
MOS	IV	19 11 33 19.7–1.2	21.56S	169.70E	33	4.9b,4.2s			
NEIC	IV	19 11 33 23.2–1.0	21.61S	169.74E	58–9	4.8b,4.2s			
BJI	IV	19 11 33 23.0	21.70S	169.70E	61	4.9b,4.9b			
GCMT	IV	19 11 33 23.2–.20	21.65S	169.60E	30–0	5.0W,4.9b			

ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=15.9km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.8km az=138.3.
MOS Error ellipse: s-maj=11.6km s-min=10.0km az=164.7.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=7.1km az=182.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c67; s67,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.52±.17 $M_{\theta\theta}$-0.32±.13; $M_{\phi\phi}$-3.20±.11; $M_{r\theta}$-0.51±.20; $M_{\theta\phi}$1.65±.07; $M_{\phi r}$-2.66±.15; Best double couple: NP1:ϕ_s175.00000°,δ63.00000°,λ110.00000°. NP2:ϕ_s316.00000°,δ33.00000°,λ56.00000°. Principal axes:
T 4.6660,Plg66.0000°,Azm121.0000°; N -0.0710,Plg18.0000°,Azm346.0000°
; P -4.5900,Plg16.0000°,Azm251.0000° $M_0$4.62800×10^{16}

ISC	**IV**	**19 17 24 39.5–1.4**	**21.7S–.30**	**169.7E–.20**	**35**	**3.8b,3.8s**	**24**	**3-150**	
IDC	IV	19 17 24 33.0–1.7	21.85S	170.02E	0	4.0,3.9			**¶16587538**
NEIC	IV	19 17 24 43.2–1.8	21.55S	169.53E	61–15	4.2b,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=65.4km s-min=21.4km az=150.0.
NEIC Event type se. Error ellipse: s-maj=50.9km s-min=11.2km az=161.0.

ISC	**IV**	**19 18 01 49.0–.63**	**21.7S–.10**	**169.74E–.10**	**35**	**4.4b,3.8s**	**62**	**3-152**	
IDC	IV	19 18 01 43.2–1.6	21.90S	169.96E	0	4.3,4.2			**¶16631143**
ISCJB	IV	19 18 01 48.6–.46	21.76S–.09	169.61E–.06	35	4.3b,3.6s			
NEIC	IV	19 18 01 52.0–1.4	21.74S	169.68E	58–12	4.6b,3.6s			

ISC Event type se.
IDC Error ellipse: s-maj=53.3km s-min=22.1km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=7.9km az=164.1.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=10.2km az=154.0.

ISC	**IV**	**21 14 29 44.8–.78**	**21.7S–.20**	**169.8E–.10**	**36**	**4.0b**	**29**	**3-150**	
IDC	IV	21 14 29 38.5–1.4	21.80S	170.05E	0	4.2,4.1			**¶17201719**
ISCJB	IV	21 14 29 43.7–.65	21.7S–.10	169.70E–.08	36	4.0b,4.1			

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**25 13 06 16.3–.57**	**22.41S–.09**	**171.59E–.08**	**98**	**4.2b**	**31**	**5-148**	
ISCJB	IV	25 13 06 14.1–.50	22.37S–.08	171.62E–.07	98	4.4b			**¶16553313**
IDC	IV	25 13 06 17.3–3.3	22.31S	171.57E	111–27	4.5,4.2			
NEIC	IV	25 13 06 18.3–1.1	22.33S	171.59E	122–11	4.8b,4.2			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=8.3km az=31.9.
IDC Error ellipse: s-maj=23.2km s-min=15.5km az=68.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=10.5km az=224.0.
IDC IV 30 13 42 32.1–4.7 21.82S 169.84E 0 3.7L,3.5
¶17202461

IDC Error ellipse: s-maj=216.9km s-min=48.0km az=158.0.
IDC V 06 14 20 28.7–4.7 21.30S 170.28E 0 3.9,3.8
¶17202933

IDC Error ellipse: s-maj=130.1km s-min=67.4km az=167.0.
IDC V 10 10 28 31.3–2.8 22.04S 169.25E 0 4.6,4.3b
¶17203234

IDC Error ellipse: s-maj=139.8km s-min=25.4km az=164.0.

ISC	**V**	**10 15 32 01.7–1.3**	**22.7S–.30**	**169.3E–.10**	**35**	**4.4b**	**9**	**3-93**	
IDC	V	10 15 31 55.5–1.8	22.81S	169.48E	0	4.5,4.3			**¶17203295**
ISCJB	V	10 15 31 59.7–1.1	22.7S–.20	169.26E–.09	33	4.3b,4.3			

ISC Event type ke.
ISCJB Event type ke.
IDC V 15 01 57 01.5–2.6 22.60S 171.44E 0 4.1,3.9
¶17203655

IDC Error ellipse: s-maj=102.0km s-min=35.7km az=165.0.

ISC	**V**	**15 17 39 34.6–.47**	**21.68S–.09**	**169.80E–.08**	**35**	**4.2b,3.6s**	**69**	**3-150**	
IDC	V	15 17 39 29.7–.83	21.63S	169.83E	0	4.3,4.3			**¶16560075**
ISCJB	V	15 17 39 33.0–.39	21.69S–.06	169.78E–.06	35	4.2b,3.6s			
NEIC	V	15 17 39 36.7–1.2	21.75S	169.71E	52–11	4.0b,3.6s			

ISC Event type se.
IDC Error ellipse: s-maj=24.7km s-min=17.8km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=7.8km az=4.8.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.6km az=179.0.

ISC	**V**	**21 16 27 15.4–2.0**	**23.1S–.40**	**171.3E–.30**	**35**	**3.5b**	**7**	**28-149**	
IDC	V	21 16 27 16.8–3.8	22.60S	170.38E	0	3.9,3.7			**¶17204148**

ISC Event type ke.
IDC Error ellipse: s-maj=141.2km s-min=48.6km az=146.0.
IDC V 25 00 08 39.7–11 21.13S 169.18E 0 3.9,3.7
¶17204416

IDC Error ellipse: s-maj=333.7km s-min=53.4km az=139.0.
IDC V 25 19 10 51.2–7.9 22.14S 170.63E 0 4.0,3.8
¶17204468

IDC Error ellipse: s-maj=178.7km s-min=40.8km az=37.0.

ISC	**V**	**26 08 43 25.0–.57**	**21.7S–.10**	**170.70E–.07**	**50**	**4.7b,3.3s**	**34**	**4-147**	
ISCJB	V	26 08 43 23.7–.44	21.72S–.09	170.64E–.06	50	4.7b,3.3s			**¶16553838**
IDC	V	26 08 43 25.6–5.9	21.77S	170.60E	50–56	4.4,4.4L			
NEIC	V	26 08 43 27.8–1.7	21.66S	170.65E	74–15	5.0b,4.4L			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=8.0km az=172.9.
IDC Error ellipse: s-maj=27.7km s-min=23.4km az=1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=10.0km az=152.0.
IDC V 30 07 18 28.1–6.3 21.46S 170.89E 0 4.6,4.3
¶17204745

IDC Error ellipse: s-maj=250.3km s-min=95.1km az=159.0.

ISC	**V**	**31 21 00 46.1–.40**	**21.64S–.08**	**169.69E–.06**	**21**	**4.7b,4.4s**	**135**	**3-166**	
ISCJB	V	31 21 00 43.6–.38	21.55S–.06	169.79E–.06	21	4.7b,4.4s			**¶16552786**
NEIC	V	31 21 00 43.3–.31	21.49S	169.84E	10	4.9b,4.4s			
GCMT	V	31 21 00 47.3–.40	21.61S	169.74E	31–1	5.0W,4.4s			
IDC	V	31 21 00 47.1–7.3	21.46S	169.74E	33–53	4.5,4.5			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=8.0km az=161.8.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.8km az=146.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s54,c73; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.14±.25 $M_{\theta\theta}$-2.49±.17; $M_{\phi\phi}$-0.65±.17; $M_{r\theta}$2.60±.27; $M_{\theta\phi}$1.12±.11; $M_{\phi r}$-1.60±.21; Best double couple: NP1:ϕ_s120.00000°,δ67.00000°,λ93.00000°. NP2:ϕ_s291.00000°,δ23.00000°,λ82.00000°. Principal axes:
T 4.4050,Plg67.0000°,Azm36.0000°; N -0.1430,Plg3.0000°,Azm298.0000°
; P -4.2680,Plg22.0000°,Azm207.0000° $M_0$4.33600×10^{16}
IDC Error ellipse: s-maj=27.2km s-min=18.6km az=74.0.

ISC	**VI**	**03 08 30 30.5–1.7**	**22.7S–.50**	**170.3E–.10**	**28**	**3.9b**	**8**	**4-148**	
IDC	VI	03 08 30 25.1–3.1	22.77S	170.42E	0	4.0,3.7			**¶17205075**

ISC Event type ke.
IDC Error ellipse: s-maj=118.2km s-min=32.1km az=158.0.

ISC	**VI**	**05 16 19 12.2–1.8**	**22.0S–.40**	**171.5E–.10**	**105**	**3.8b**	**11**	**5-148**	
ISCJB	VI	05 16 19 10.5–1.5	22.1S–.40	171.5E–.10	105	3.7b			**¶17205340**
IDC	VI	05 16 19 12.3–5.0	22.17S	171.43E	112–36	3.9,3.8			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.3km s-min=11.6km az=166.7.
IDC Error ellipse: s-maj=53.9km s-min=27.1km az=150.0.
IDC VI 10 22 08 20.0–9.5 21.29S 172.98E 45–64 3.7,3.6
¶17205735

IDC Error ellipse: s-maj=151.4km s-min=65.5km az=1.0.

ISC	**VI**	**14 15 45 04.5–.42**	**21.71S–.09**	**169.71E–.06**	**21**	**4.7b,4.1s**	**170**	**3-166**	
IDC	VI	14 15 45 00.6–.79	21.67S	170.00E	0	4.3,4.3			**¶16596685**
ISCJB	VI	14 15 45 02.7–.34	21.67S–.07	169.79E–.06	21	4.5b,4.1s			
NEIC	VI	14 15 45 03.2–5.9	21.60S	170.01E	17–34	5.0b,4.1s			
GCMT	VI	14 15 45 03.2–.30	21.70S	169.61E	31–1	5.0W,4.1s			
MOS	VI	14 15 45 05.7–1.2	21.62S	169.68E	33	5.0b,4.1s			
BJI	VI	14 15 45 06.0	21.70S	169.60E	49	5.1b,5.0s			

ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=19.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.4km az=163.2.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=8.6km az=90.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c42; s54,c71; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.17±.21 $M_{\theta\theta}$-0.66±.17; $M_{\phi\phi}$-2.50±.14; $M_{r\theta}$1.66±.26; $M_{\theta\phi}$1.52±.09; $M_{\phi r}$-0.77±.19; Best double couple: NP1:ϕ_s134.00000°,δ59.00000°,λ72.00000°. NP2:ϕ_s346.00000°,δ35.00000°,λ117.00000°. Principal axes:
T 3.7960,Plg70.0000°,Azm6.0000°; N -0.0930,Plg15.0000°,Azm144.0000°
; P -3.6940,Plg13.0000°,Azm237.0000° $M_0$3.74500×10^{16}
MOS Error ellipse: s-maj=13.3km s-min=10.5km az=123.9.

ISC	**VI**	**14 15 54 27.0–.38**	**21.54S–.08**	**169.65E–.06**	**21**	**4.9b,3.9s**	**253**	**3-166**	
IDC	VI	14 15 54 22.3–.66	21.74S	169.99E	0	4.6L,4.5			**¶16601809**
ISCJB	VI	14 15 54 25.3–.36	21.58S–.07	169.68E–.05	21	4.7b,3.9s			
BJI	VI	14 15 54 27.4	21.28S	170.09E	35	5.1b,4.9b			
MOS	VI	14 15 54 27.6–1.3	21.60S	169.69E	33	5.0b,4.9b			
GCMT	VI	14 15 54 29.7–.40	21.71S	169.65E	32–1	5.0W,4.9b			
NEIC	VI	14 15 54 29.7–.89	21.72S	169.75E	48–8	5.0b,4.9b			

ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=17.9km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.2km az=158.9.
MOS Error ellipse: s-maj=10.5km s-min=8.7km az=44.9.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c30; s57,c75; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.47±.27 $M_{\theta\theta}$-0.09±.18; $M_{\phi\phi}$-2.38±.16; $M_{r\theta}$1.08±.21; $M_{\theta\phi}$1.73±.09; $M_{\phi r}$-1.02±.18; Best double couple: NP1:ϕ_s140.00000°,δ59.00000°,λ76.00000°. NP2:ϕ_s346.00000°,δ34.00000°,λ112.00000°. Principal axes:
T 2.8970,Plg72.0000°,Azm17.0000°; N 0.7420,Plg12.0000°,Azm148.0000°
; P -3.6370,Plg13.0000°,Azm240.0000° $M_0$3.26700×10^{16}
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.2km az=167.0.

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IDC I 01 06 18 34.0–3.6 3.06S 151.91E 0 4.1,3.9
¶17189115

IDC Error ellipse: s-maj=119.2km s-min=50.3km az=118.0.

ISC	**I**	**01 20 43 30.3–.68**	**4.93S–.10**	**153.4E–.10**	**56**	**3.9b**	**25**	**8-151**	
ISCJB	I	01 20 43 28.4–.61	4.94S–.08	153.32E–.09	56	4.0b			**¶17189158**
IDC	I	01 20 43 30.8–.84	4.94S	153.29E	62–5	4.1,3.9			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=9.3km az=37.4.
IDC Error ellipse: s-maj=19.7km s-min=13.4km az=109.0.

ISC	**I**	**03 09 40 11.2–.80**	**3.8S–.10**	**151.3E–.20**	**21**	**3.8b,3.5s**	**13**	**7-149**	
IDC	I	03 09 40 07.9–.82	3.79S	151.26E	0	4.0,3.9			**¶17189319**
ISCJB	I	03 09 40 09.6–.65	3.75S–.08	151.2E–.10	21	3.8b,3.5s			

ISC Event type ke.
ISCJB Event type ke.
IDC I 03 16 36 27.8–8.7 4.74S 153.60E 128–59 3.6,3.4
¶17189342

IDC Error ellipse: s-maj=106.4km s-min=55.1km az=124.0.
IDC I 03 20 53 54.4–3.2 3.96S 151.96E 0 3.9,3.7
¶17189362

IDC Error ellipse: s-maj=117.1km s-min=44.3km az=123.0.

ISC	**I**	**03 21 37 15.4–.92**	**4.9S–.10**	**154.0E–.20**	**105**	**4.0b**	**30**	**8-159**	
ISCJB	I	03 21 37 13.9–.82	5.0S–.10	154.0E–.10	105	3.9b			**¶16031090**
NEIC	I	03 21 37 15.9–2.3	4.95S	153.98E	112–17	4.4b			
IDC	I	03 21 37 15.2–4.8	4.92S	153.95E	102–38	4.2,3.9			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=9.0km az=34.7.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=11.2km az=103.0.
IDC Error ellipse: s-maj=34.6km s-min=18.0km az=98.0.
IDC I 04 07 53 37.3–1.6 3.89S 150.27E 0 4.1,3.8
¶17189403

IDC Error ellipse: s-maj=105.5km s-min=22.9km az=127.0.
IDC I 04 07 55 43.6–4.5 3.95S 150.93E 378–38 3.8,3.1
¶17189404

IDC Error ellipse: s-maj=72.3km s-min=34.4km az=104.0.
IDC I 04 09 46 50.9–3.4 3.56S 151.28E 0 3.9,3.7
¶17189411

IDC Error ellipse: s-maj=121.5km s-min=46.4km az=120.0.

ISC	**I**	**04 10 19 28.5–1.4**	**4.0S–.30**	**150.3E–.40**	**35**	**3.5b**	**8**	**22-148**	
IDC	I	04 10 19 23.2–1.5	3.90S	150.27E	0	3.9,3.7b			**¶17189412**
ISCJB	I	04 10 19 26.7–1.3	4.0S–.30	150.2E–.40	33	3.5b,3.2s			

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**04 15 40 17.5–.51**	**4.62S–.06**	**153.82E–.08**	**100**	**4.3b**	**97**	**2-159**	

MOS I 04 15 40 12.3–.81 4.55S 153.87E 69 4.6b ¶15927174
IDC I 04 15 40 14.3–4.0 4.63S 153.90E 77–34 4.3,4.1
BJI I 04 15 40 15.9 5.00S 153.39E 96 4.9b,4.9b
ISCJB I 04 15 40 16.2–.44 4.58S–.05 153.79E–.08 100 4.3b,4.9b
NEIC I 04 15 40 17.4–1.2 4.56S 153.79E 99–9 4.5b,4.9b
ISC Event type se.
MOS Error ellipse: s-maj=13.5km s-min=10.8km az=81.8.
IDC Error ellipse: s-maj=23.5km s-min=12.3km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=6.0km az=20.7.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=6.5km az=92.0.
ISC I 05 01 59 38.7–1.6 3.6S–.30 150.7E–.50 35 3.6b 6 23-148
IDC I 05 01 59 33.0–1.5 3.79S 151.04E 0 3.8,3.6 ¶17189471
ISCJB I 05 01 59 37.0–1.5 3.7S–.30 150.8E–.50 33 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC I 05 14 53 11.6–8.7 4.67S 153.64E 131–62 3.7,3.5
¶17189514
IDC Error ellipse: s-maj=76.8km s-min=37.7km az=93.0.
IDC I 06 08 32 27.5–9.5 4.36S 153.58E 116–65 4.0,3.8
¶17189578
IDC Error ellipse: s-maj=130.0km s-min=55.8km az=120.0.
IDC I 06 11 43 03.1–1.9 3.95S 151.22E 0 3.9,3.6
¶17189592
IDC Error ellipse: s-maj=65.0km s-min=26.2km az=119.0.
IDC I 06 17 27 32.6–9.4 4.53S 153.29E 143–64 3.8,3.7
¶17189602
IDC Error ellipse: s-maj=127.3km s-min=55.3km az=118.0.
ISC I 07 00 18 04.3–.60 4.60S–.08 153.81E–.09 100 4.2b 33 8-159
ISCJB I 07 00 18 02.8–.51 4.61S–.06 153.80E–.07 100 4.3b ¶16009112
IDC I 07 00 18 03.8–1.0 4.62S 153.77E 94–6 4.3,4.0
NEIC I 07 00 18 05.1–1.1 4.64S 153.82E 108–11 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.6km az=29.7.
IDC Error ellipse: s-maj=27.9km s-min=12.9km az=114.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.2km az=133.0.
IDC I 07 02 35 53.4–10 4.75S 153.65E 135–69 3.8,3.6
¶17189618
IDC Error ellipse: s-maj=125.7km s-min=61.2km az=120.0.
IDC I 07 06 34 23.8–7.2 4.72S 153.65E 139–52 3.9,3.7
¶17189625
IDC Error ellipse: s-maj=65.7km s-min=24.4km az=94.0.
IDC I 07 18 44 09.5–1.7 3.90S 151.34E 0 3.9,3.6
¶17189654
IDC Error ellipse: s-maj=72.2km s-min=23.1km az=122.0.
ISC I 07 23 03 11.9–1.5 4.3S–.20 153.6E–.10 100 4.2b 10 8-151
ISCJB I 07 23 03 09.0–2.0 4.2S–.20 153.6E–.10 100 4.1b ¶16017953
NEIC I 07 23 03 15.5–1.4 4.65S 153.59E 129–14 4.4b
IDC I 07 23 03 15.7–8.1 4.63S 153.57E 130–57 4.4,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=35.8km s-min=13.0km az=168.9.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=11.1km az=152.0.
IDC Error ellipse: s-maj=63.8km s-min=42.3km az=90.0.
ISC I 08 07 11 56.5–1.3 4.7S–.20 153.8E–.20 100 3.7b 12 8-151
ISCJB I 08 07 11 55.0–1.1 4.7S–.20 153.8E–.20 100 3.7b ¶17189676
IDC I 08 07 11 57.9–5.8 4.67S 153.79E 112–46 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.0km s-min=10.9km az=39.0.
IDC Error ellipse: s-maj=50.3km s-min=23.5km az=102.0.
IDC I 08 09 53 02.8–5.3 4.71S 153.40E 148–44 3.8,3.6
¶17189689
IDC Error ellipse: s-maj=55.8km s-min=25.9km az=112.0.
IDC I 08 13 56 58.9–7.0 3.55S 153.04E 86–53 4.0,3.8
¶17189700
IDC Error ellipse: s-maj=89.9km s-min=38.4km az=109.0.
IDC I 09 00 51 12.5–12 4.26S 153.72E 91–77 3.6,3.5
¶17189731
IDC Error ellipse: s-maj=188.2km s-min=67.6km az=110.0.
ISC I 09 05 19 38.9–.41 4.58S–.06 153.65E–.06 85 4.5b 59 8-159
ISCJB I 09 05 19 37.1–.34 4.54S–.05 153.67E–.05 85 4.3b ¶16022594
NEIC I 09 05 19 40.6–.24 4.58S 153.71E 107 4.6b
IDC I 09 05 19 40.8–.54 4.62S 153.69E 109–4 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.5km az=176.4.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=96.0.
IDC Error ellipse: s-maj=11.9km s-min=8.5km az=110.0.
IDC I 09 12 27 30.3–5.7 4.40S 153.02E 159–44 3.7,3.4
¶17189762
IDC Error ellipse: s-maj=119.2km s-min=30.6km az=125.0.
IDC I 13 20 37 37.9–3.6 3.34S 150.77E 0 3.7,3.5
¶17190106
IDC Error ellipse: s-maj=136.3km s-min=43.0km az=114.0.
ISC I 14 23 46 12.8–.51 2.11S–.05 151.26E–.06 57–4 5.0b,3.8s 214 2-148
ISCJB I 14 23 46 10.8–.99 2.13S–.04 151.22E–.04 51–9 5.1b,3.9s ¶15931005
IDC I 14 23 46 11.6–3.0 2.15S 151.32E 48–27 4.8,4.8L
MOS I 14 23 46 11.3–1.0 2.07S 151.33E 63 5.0b,4.8L
GCMT I 14 23 46 13.2–.40 2.12S 151.28E 51–5 4.8W,4.8L
BJI I 14 23 46 13.0 1.78S 151.26E 60 5.2b,5.2s
NEIC I 14 23 46 13.2–.77 2.14S 151.23E 61–7 5.1b,5.2s
DJA I 14 23 46 28.1–2.7 3S–14 151E–16 156–17 5.6b,5.1
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c25; s70,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.03±.19 $M_{\theta\theta}$1.14±.15; $M_{\phi\phi}$-0.11±.18; $M_{r\theta}$-1.40±.13; $M_{\theta\phi}$-0.32±.12; $M_{\phi r}$0.71±.10; Best double couple: NP1:ϕ_s115.00000°,δ73.00000°,λ-82.00000°. NP2:ϕ_s269.00000°,δ19.00000°,λ-114.00000°. Principal axes: T 2.0000,Plg27.0000°,Azm198.0000°; N -0.1390,Plg8.0000°,Azm292.0000° ; P -1.8640,Plg62.0000°,Azm37.0000° $M_0$1.93200×10^{16}
NEIC Event type se.
ISC I 16 12 55 08.4–.91 5.8S–.10 153.8E–.10 74 3.9b 24 7-152
IDC I 16 12 55 03.9–4.2 5.65S 153.99E 36–29 4.0,4.0 ¶16007280
NEIC I 16 12 55 03.9–2.8 5.65S 154.05E 40–22 4.2b,4.0
ISCJB I 16 12 55 06.6–.94 5.7S–.10 153.8E–.10 74 3.8b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 16 21 40 30.9–.80 5.06S–.07 153.1E–.10 43 4.5b 40 1-151
ISCJB I 16 21 40 29.1–.56 5.12S–.05 153.11E–.08 43 4.5b,3.2s ¶16151601
NEIC I 16 21 40 29.1–2.3 5.20S 153.30E 38–17 4.9b,3.2s
IDC I 16 21 40 30.4–5.5 5.17S 153.21E 41–45 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=7.2km az=17.5.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=10.5km az=97.0.
IDC Error ellipse: s-maj=38.0km s-min=20.3km az=104.0.
ISC I 19 06 16 19.3–1.5 4.9S–.20 154.0E–.20 105 3.5b 9 8-151
ISCJB I 19 06 16 17.5–1.3 4.9S–.20 154.0E–.20 105 3.4b ¶17190535
IDC I 19 06 16 19.2–7.8 4.86S 153.96E 103–57 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.1km s-min=13.9km az=40.9.
IDC Error ellipse: s-maj=66.2km s-min=26.3km az=95.0.
ISC I 21 03 56 54.5–2.1 3.3S–.20 152.1E–.50 352 3.6b 8 24-149
ISCJB I 21 03 56 53.2–2.5 3.4S–.20 152.1E–.50 352 3.4b ¶17190656
IDC I 21 03 56 54.9–10 3.33S 152.10E 354–95 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=72.4km s-min=21.2km az=8.2.
IDC Error ellipse: s-maj=77.8km s-min=26.5km az=82.0.
IDC I 23 18 40 57.2–9.1 4.87S 153.51E 162–61 3.9,3.6
¶17190824
IDC Error ellipse: s-maj=97.4km s-min=52.5km az=110.0.
ISC I 24 02 30 24.9–1.9 3.7S–.20 152.3E–.40 35 3.7b 10 8-88
ISCJB I 24 02 30 23.0–1.7 3.8S–.20 152.2E–.30 33 3.7b ¶17190851
IDC I 24 02 30 29.8–6.0 3.98S 152.22E 85–53 3.8,3.7

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.8km s-min=15.2km az=23.2.
IDC Error ellipse: s-maj=55.3km s-min=29.6km az=109.0.
IDC I 24 18 10 30.2–13 5.12S 153.23E 240–127 3.7,3.2
¶17190910
IDC Error ellipse: s-maj=57.4km s-min=30.2km az=175.0.
ISC I 24 21 52 26.6–1.1 4.9S–.20 153.8E–.20 105 3.8b 15 8-151
IDC I 24 21 52 24.2–5.5 4.86S 154.09E 91–45 4.1,3.9 ¶17190926
ISCJB I 24 21 52 25.2–.95 4.9S–.10 153.8E–.20 105 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 25 05 10 44.6–8.2 4.82S 153.15E 152–55 4.2,3.9
¶17190943
IDC Error ellipse: s-maj=92.9km s-min=30.5km az=104.0.
IDC I 26 02 08 00.6–4.9 3.26S 151.96E 386–39 3.8,3.2
¶17191000
IDC Error ellipse: s-maj=73.7km s-min=22.3km az=91.0.
IDC I 26 09 21 06.6–10 5.23S 153.88E 168–70 3.7,3.3
¶17191025
IDC Error ellipse: s-maj=107.2km s-min=30.7km az=100.0.
IDC I 26 12 20 34.3–4.4 2.47S 152.83E 0 3.9s,3.9
¶17191034
IDC Error ellipse: s-maj=201.9km s-min=48.7km az=114.0.
ISC II 02 17 17 06.7–2.3 3.5S–.20 151.9E–.40 352 3.4b 9 24-149
IDC II 02 17 17 03.5–11 3.44S 151.97E 322–92 3.8,3.3 ¶17191553
ISC Event type ke.
IDC Error ellipse: s-maj=88.3km s-min=19.2km az=91.0.
ISC II 03 08 51 06.4–.99 5.6S–.20 153.8E–.20 74 3.8b 17 7-151
IDC II 03 08 50 56.0–1.2 5.61S 154.06E 0 4.2,4.0 ¶16339702
NEIC II 03 08 51 01.6–.78 5.59S 154.00E 35 4.5b,4.0
ISCJB II 03 08 51 05.4–.86 5.5S–.20 153.7E–.20 74 3.8b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 06 14 47 11.4–.64 5.30S–.09 153.68E–.07 43 4.1b,3.3s 30 7-95
ISCJB II 06 14 47 09.9–.48 5.35S–.07 153.62E–.05 43 4.1b,3.1s ¶16026095
IDC II 06 14 47 12.9–3.0 5.40S 153.68E 56–25 4.2,4.0
NEIC II 06 14 47 13.4–.41 5.37S 153.55E 58 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=7.7km az=10.6.
IDC Error ellipse: s-maj=24.2km s-min=16.7km az=73.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.9km az=65.0.
IDC II 08 11 58 16.9–4.9 2.50S 151.34E 0 3.9,3.7
¶17191895
IDC Error ellipse: s-maj=154.6km s-min=32.5km az=102.0.
IDC II 11 03 47 21.2–2.3 4.60S 153.39E 0 4.1,3.8
¶17192048
IDC Error ellipse: s-maj=176.6km s-min=27.8km az=128.0.
IDC II 12 02 10 17.6–1.9 2.44S 149.55E 0 3.7,3.4
¶17192099
IDC Error ellipse: s-maj=205.0km s-min=28.3km az=122.0.
IDC II 15 02 39 37.1–8.7 4.82S 153.42E 172–58 3.8,3.5
¶17192280
IDC Error ellipse: s-maj=96.7km s-min=40.1km az=107.0.
IDC II 15 05 53 06.2–1.3 5.26S 153.44E 0 3.6,3.6
¶17192286
IDC Error ellipse: s-maj=41.7km s-min=31.9km az=71.0.
ISC II 15 19 23 48.7–1.2 4.8S–.20 154.0E–.20 105 3.6b 17 8-151
ISCJB II 15 19 23 46.1–1.1 4.8S–.10 154.0E–.20 105 3.7b ¶17192319
IDC II 15 19 23 49.9–1.2 4.80S 153.94E 124–6 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.4km s-min=10.6km az=38.9.
IDC Error ellipse: s-maj=36.3km s-min=13.6km az=118.0.
IDC II 16 09 31 56.2–3.5 3.83S 151.79E 0 4.0s,4.0
¶17192358
IDC Error ellipse: s-maj=159.2km s-min=44.4km az=119.0.
ISC II 18 04 23 17.8–.32 4.66S–.03 153.18E–.04 53–2 5.3b,4.8s 789 1-158
IDC II 18 04 23 15.4–1.6 4.63S 153.08E 30–11 5.1,5.0b ¶16031274
ISCJB II 18 04 23 15.4–.69 4.62S–.02 153.20E–.03 45–6 5.3b,4.8s
BJI II 18 04 23 16.0 4.52S 153.38E 57 5.5b,5.2b
MOS II 18 04 23 16.3–1.2 4.50S 153.05E 43 5.6b,5.1s
NEIC II 18 04 23 18.6–.51 4.61S 153.16E 58–4 5.5W,5.3b
GCMT II 18 04 23 18.6–.10 4.89S 153.04E 53–0 5.5W,5.3b
DJA II 18 04 23 20.4–.60 5S–3.0 153E–5.0 66–6 5.8,5.7b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Namatanai. Moment Tensor Solution. s37 Moment tensor: Scale 10^{17} Nm; M_{rr}1.81 $M_{\theta\theta}$-1.45 $M_{r\theta}$-0.36 $M_{r\theta}$1.28 $M_{\theta\phi}$-0.20 $M_{\phi r}$0.31 Best double couple: NP1: ϕ_s261.00000°,δ26.00000°,λ93.00000°. NP2:ϕ_s78.00000°,δ64.00000°,λ89.00000°. Principal axes: T 2.2700,Plg71.0000°,Azm345.0000°; N -0.3200,Plg1.0000°,Azm78.0000° ; P -1.9500,Plg19.0000°,Azm169.0000° $M_0$2.10000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s121,c243; s111,c226;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.87±.03 $M_{\theta\theta}$-2.03±.02; $M_{\phi\phi}$0.15±.02; $M_{r\theta}$0.94±.02; $M_{\theta\phi}$0.09±.02; $M_{\phi r}$0.11±.02; Best double couple: NP1:ϕ_s88.00000°,δ58.00000°,λ85.00000°. NP2:ϕ_s277.00000° ,δ32.00000°,λ98.00000°. Principal axes: T 2.0940,Plg76.0000°,Azm343.0000° ; N 0.1510,Plg4.0000°,Azm91.0000°; P -2.2470,Plg13.0000°,Azm182.0000° $M_0$2.17100×10^{17}
ISC II 18 04 25 22.9–.75 4.6S–.10 153.3E–.20 50 4.7b 43 14-151
ISCJB II 18 04 25 21.3–.63 4.61S–.08 153.3E–.10 50 4.8s,4.7b ¶16305021
NEIC II 18 04 25 21.8–1.9 4.57S 153.29E 40–17 4.8b,4.7b
IDC II 18 04 25 22.8–8.2 4.57S 153.31E 48–71 4.8s,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.1km s-min=9.6km az=21.8.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.2km az=94.0.
IDC Error ellipse: s-maj=49.7km s-min=21.0km az=107.0.
IDC II 18 06 46 09.3–9.6 4.64S 153.58E 143–65 4.2,3.9
¶17192464
IDC Error ellipse: s-maj=124.7km s-min=55.2km az=118.0.
ISC II 18 11 57 24.5–1.0 3.8S–.20 151.2E–.20 200 4.7b 13 1-148
IDC II 18 11 56 59.5–1.8 3.51S 151.47E 0 4.4,4.2 ¶16398475
ISCJB II 18 11 57 21.6–1.2 3.8S–.20 151.3E–.10 200 4.3b,4.2
NEIC II 18 11 57 25.5–.76 3.80S 151.24E 221–10 4.8b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=109.3km s-min=24.7km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=32.6km s-min=15.9km az=156.3.
NEIC Event type se. Error ellipse: s-maj=56.0km s-min=24.0km az=142.0.
IDC II 24 19 11 08.7–3.1 3.65S 151.69E 0 4.0,3.7
¶17192803
IDC Error ellipse: s-maj=136.9km s-min=42.4km az=119.0.
IDC II 26 06 22 08.3–2.1 5.24S 153.81E 0 3.9,3.8
¶17192889
IDC Error ellipse: s-maj=74.8km s-min=25.9km az=109.0.
IDC II 28 20 49 21.6–10 4.66S 153.30E 160–68 3.6,3.3
¶17193017
IDC Error ellipse: s-maj=117.4km s-min=41.9km az=104.0.
ISC III 01 02 13 11.7–1.6 4.5S–.20 153.6E–.30 100 3.6b 14 8-151
IDC III 01 02 13 11.7–1.5 4.72S 153.78E 125–6 4.0,3.8 ¶17193031
ISC Event type ke.
IDC Error ellipse: s-maj=52.6km s-min=15.3km az=123.0.
IDC III 01 04 04 11.3–2.0 3.78S 150.40E 0 3.7,3.4
¶17193036
IDC Error ellipse: s-maj=134.8km s-min=28.7km az=123.0.
IDC III 01 23 26 43.9–5.5 5.24S 153.74E 0 3.8,3.6
¶17193102
IDC Error ellipse: s-maj=161.0km s-min=31.5km az=107.0.
IDC III 04 06 45 29.9–2.0 5.58S 153.21E 0 4.0,3.7
¶17193223
IDC Error ellipse: s-maj=85.3km s-min=24.5km az=125.0.
ISC III 07 07 26 21.4–.48 3.48S–.05 151.62E–.06 426–4 4.4b 121 1-153
BJI III 07 07 26 19.6 3.32S 151.72E 417 4.5b,4.3b ¶16196827

DJA III 07 07 26 20.7–.60 3S–5.0 152E–6.0 421–12 4.9,4.9b
ISCJB III 07 07 26 20.5–.42 3.48S–.04 151.59E–.05 430–4 4.3b,4.9b
NEIC III 07 07 26 21.9–.20 3.46S 151.59E 432 4.4b,4.9b
IDC III 07 07 26 21.4–.68 3.50S 151.55E 426–6 4.7,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.1km az=23.9.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.7km az=103.0.
IDC Error ellipse: s-maj=14.6km s-min=7.0km az=106.0.
ISC III 12 09 51 36.6–.33 3.88S–.05 151.52E–.05 21 5.2b,4.9s 231 1-157
BJI III 12 09 51 33.5 3.36S 151.81E 4 5.5b,5.3s **¶16310169**
IDC III 12 09 51 33.5–.51 3.86S 151.40E 0 4.9s,4.9
ISCJB III 12 09 51 35.2–.20 3.87S–.03 151.46E–.03 21 5.1b,4.9s
NEIC III 12 09 51 35.3–.19 3.84S 151.45E 10 5.2b,4.9s
GCMT III 12 09 51 35.3–.20 3.65S 151.38E 16–1 5.6W,4.9s
MOS III 12 09 51 36.8–1.2 3.83S 151.42E 33 5.3b,4.9s
DJA III 12 09 51 49.0–1.4 4S–6.0 151E–9.0 101–9 6.0,5.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c76; s118,c214;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.43±.07 $M_{\theta\theta}$2.74±.06; $M_{\phi\phi}$-2.31±.06; $M_{r\theta}$0.16±.18; $M_{\theta\phi}$1.00±.05; $M_{\theta r}$0.20±.19; Best double couple: NP1:ϕ_s214.00000°,δ89.00000°,λ-174.00000°. NP2:ϕ_s124.00000° ,δ84.00000°,λ-1.00000°. Principal axes: T 2.9420,Plg3.0000°,Azm349.0000° ; N -0.4280,Plg84.0000°,Azm224.0000°; P -2.5150,Plg5.0000°,Azm79.0000° M_o2.72800×10^{17}
IDC III 12 10 32 41.4–2.8 5.88S 153.47E 0 4.3s,4.3
¶17194372
IDC Error ellipse: s-maj=104.8km s-min=40.3km az=126.0.
IDC III 13 12 22 23.2–3.2 3.36S 152.88E 0 4.0,3.9
¶17194860
IDC Error ellipse: s-maj=117.7km s-min=26.7km az=113.0.
IDC III 21 17 29 46.1–3.6 3.91S 152.20E 0 3.6,3.5
¶17197718
IDC Error ellipse: s-maj=125.6km s-min=30.9km az=108.0.
ISC III 22 05 23 35.0–.79 4.6S–.10 153.3E–.10 35 4.0b 21 8-151
IDC III 22 05 23 28.7–1.5 4.74S 153.56E 0 4.2,4.1 **¶16480151**
ISCJB III 22 05 23 33.7–.64 4.65S–.09 153.2E–.10 35 4.1b,3.6s
NEIC III 22 05 23 36.5–3.1 4.66S 153.30E 48–28 4.5b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=47.6km s-min=17.8km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=17.6km s-min=9.0km az=35.2.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=19.7km az=89.0.
ISC IV 02 06 05 01.9–.53 5.58S–.04 153.93E–.04 66–4 5.5b 582 2-159
MOS IV 02 06 04 57.2–1.0 5.47S 153.88E 33 5.6b,4.5s **¶16403574**
ISCJB IV 02 06 04 58.6–.73 5.57S–.02 153.93E–.02 49–6 5.4b,4.8s
IDC IV 02 06 04 60.0–1.5 5.54S 154.04E 48–13 5.1,5.0
GCMT IV 02 06 05 00.7–.10 5.82S 153.70E 41–0 5.3W,5.0
NEIC IV 02 06 05 00.7–.12 5.57S 153.96E 55 5.5W,5.4b
BJI IV 02 06 05 01.8 5.09S 154.24E 70 5.5b,5.4b
DJA IV 02 06 05 02.5–.70 6S–3.0 154E–4.0 60–7 5.8b,5.6
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s110,c168; s94,c127;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.14±.02 $M_{\theta\theta}$-0.57±.02; $M_{\phi\phi}$-0.57±.02; $M_{r\theta}$0.32±.02; $M_{\theta\phi}$0.64±.01; $M_{\theta r}$-0.14±.02; Best double couple: NP1:ϕ_s129.00000°,δ53.00000°,λ82.00000°. NP2:ϕ_s322.00000° ,δ38.00000°,λ100.00000°. Principal axes: T 1.1990,Plg80.0000°,Azm5.0000° ; N 0.0570,Plg6.0000°,Azm133.0000°; P -1.2610,Plg8.0000°,Azm224.0000° M_o1.23000×10^{17}
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.03 $M_{\theta\phi}$1.94 $M_{\theta r}$0.09 Best double couple: NP1:ϕ_s120.00000° ,δ50.00000°,λ53.00000°. NP2:ϕ_s349.00000°,δ52.00000°,λ126.00000°. Principal axes: T 1.4200,Plg62.0000°,Azm323.0000°; N 1.3500,Plg28.0000°,Azm146.0000° ; P -2.7700,Plg1.0000°,Azm55.0000° M_o2.40000×10^{17}
IDC IV 03 02 33 56.9–4.5 2.97S 152.86E 0 3.8,3.5
¶17199602
IDC Error ellipse: s-maj=214.7km s-min=49.3km az=115.0.
IDC IV 03 04 30 55.7–3.7 3.81S 152.05E 0 4.2,3.9
¶17199611
IDC Error ellipse: s-maj=149.7km s-min=46.8km az=121.0.
IDC IV 03 21 56 40.8–3.9 3.90S 150.74E 0 3.4,3.1
¶17199703
IDC Error ellipse: s-maj=164.2km s-min=46.7km az=115.0.
IDC IV 06 19 04 00.7–13 3.93S 151.04E 75–124 3.6,3.6
¶17200039
IDC Error ellipse: s-maj=86.9km s-min=38.8km az=122.0.
IDC IV 07 17 14 41.5–6.7 3.50S 151.29E 0 3.5,3.4
¶17200137
IDC Error ellipse: s-maj=209.9km s-min=36.5km az=104.0.
ISC IV 08 02 26 49.7–.49 5.33S–.08 153.50E–.06 43 4.4b,3.4s 42 7-151
ISCJB IV 08 02 26 48.1–.38 5.39S–.06 153.49E–.05 43 4.4b,3.3s **¶16529574**
NEIC IV 08 02 26 52.4–1.1 5.50S 153.58E 72–10 4.7b,3.3s
IDC IV 08 02 26 55.5–2.4 5.55S 153.58E 99–23 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=7.2km az=30.2.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=7.3km az=179.0.
IDC Error ellipse: s-maj=16.0km s-min=13.3km az=3.0.
IDC IV 12 03 27 35.4–22 4.31S 153.11E 97–181 4.1L,4.0
¶17200722
IDC Error ellipse: s-maj=113.6km s-min=86.6km az=41.0.
IDC IV 13 11 06 32.5–10 4.57S 153.78E 99–64 3.9,3.7
¶17200890
IDC Error ellipse: s-maj=94.0km s-min=71.1km az=173.0.
ISC IV 14 02 20 27.3–1.1 4.8S–.20 153.5E–.10 56 4.0b 15 8-151
IDC IV 14 02 20 25.8–6.1 4.75S 153.55E 45–52 4.1,4.0 **¶16529594**
ISCJB IV 14 02 20 26.3–.85 4.9S–.10 153.50E–.10 56 3.9b,3.9s
NEIC IV 14 02 20 26.7–2.6 4.81S 153.56E 50–21 4.1b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=42.9km s-min=24.3km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=11.9km az=145.9.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=13.3km az=214.0.
IDC IV 14 13 24 38.8–2.3 3.61S 152.17E 0 3.9,3.8
¶17201029
IDC Error ellipse: s-maj=48.5km s-min=38.1km az=12.0.
ISC IV 15 11 06 15.1–.94 5.8S–.10 153.5E–.20 32 4.2b,3.2s 25 7-151
IDC IV 15 11 06 10.5–.95 5.81S 153.40E 0 4.2,4.2 **¶16587523**
ISCJB IV 15 11 06 13.0–.61 5.85S–.08 153.45E–.09 32 4.1b,3.2s
NEIC IV 15 11 06 15.1–.57 5.85S 153.47E 35 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=30.2km s-min=17.3km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=8.7km az=40.3.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=10.7km az=112.0.
IDC IV 16 07 18 38.3–2.2 3.66S 152.00E 0 4.3,4.1
¶17201196
IDC Error ellipse: s-maj=46.7km s-min=36.9km az=14.0.
IDC IV 16 21 35 50.4–7.0 3.57S 150.04E 109–59 3.7,3.4
¶17201264
IDC Error ellipse: s-maj=129.1km s-min=48.4km az=120.0.
IDC IV 17 17 18 09.9–4.7 4.63S 153.46E 0 3.5,3.3
¶17201346
IDC Error ellipse: s-maj=142.7km s-min=34.7km az=108.0.
IDC IV 21 04 20 26.4–3.6 4.99S 153.12E 0 3.9,3.8
¶17201670
IDC Error ellipse: s-maj=103.7km s-min=26.4km az=116.0.
IDC IV 26 08 48 33.3–3.0 3.94S 152.61E 0 3.8,3.7
¶17202118
IDC Error ellipse: s-maj=94.8km s-min=47.1km az=111.0.
IDC IV 30 10 51 39.0–1.6 3.68S 150.04E 0 3.8,3.6
¶17202452
IDC Error ellipse: s-maj=71.9km s-min=23.2km az=122.0.

ISC V 01 21 57 22.3–.68 4.70S–.10 153.29E–.10 50 4.3b 41 1-124
IDC V 01 21 57 15.9–1.1 4.64S 153.13E 0 4.3,4.2b **¶16708535**
ISCJB V 01 21 57 20.5–.45 4.69S–.06 153.32E–.07 50 4.4b,3.5s
NEIC V 01 21 57 23.6–1.4 4.72S 153.29E 62–11 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=38.8km s-min=17.4km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=8.6km az=6.1.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=7.0km az=101.0.
IDC V 02 06 47 26.2–2.8 3.98S 152.20E 0 4.2,3.9
¶17202588
IDC Error ellipse: s-maj=112.0km s-min=39.7km az=123.0.
IDC V 03 16 30 39.0–1.8 3.67S 152.25E 0 3.9,3.7
¶17202695
IDC Error ellipse: s-maj=62.0km s-min=23.5km az=117.0.
IDC V 05 13 23 21.1–9.5 4.53S 153.30E 157–64 3.7,3.4
¶17202850
IDC Error ellipse: s-maj=106.7km s-min=40.8km az=103.0.
ISC V 06 04 30 10.6–1.5 5.1S–.20 153.6E–.20 43 3.8b 9 8-151
ISCJB V 06 04 30 09.4–1.3 5.1S–.20 153.4E–.20 43 3.7b **¶17202901**
IDC V 06 04 30 17.6–7.6 5.12S 153.21E 95–56 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.0km s-min=13.8km az=40.2.
IDC Error ellipse: s-maj=66.8km s-min=27.7km az=98.0.
IDC V 06 13 04 59.0–3.1 3.37S 150.68E 0 4.1,4.0
¶17202922
IDC Error ellipse: s-maj=109.5km s-min=42.8km az=118.0.
IDC V 08 18 05 59.8–4.5 3.87S 153.96E 381–39 3.6,3.0
¶17203062
IDC Error ellipse: s-maj=57.2km s-min=22.7km az=109.0.
IDC V 12 00 13 16.6–3.3 3.64S 151.56E 0 4.1,3.9b
¶17203441
IDC Error ellipse: s-maj=125.7km s-min=43.6km az=120.0.
IDC V 12 20 55 16.6–4.3 3.73S 151.78E 0 3.8,3.6
¶17203505
IDC Error ellipse: s-maj=166.0km s-min=37.3km az=111.0.
IDC V 18 07 34 29.4–2.1 4.71S 153.21E 0 4.2,4.0
¶17203863
IDC Error ellipse: s-maj=68.9km s-min=34.3km az=111.0.
IDC V 18 08 57 01.0–4.1 5.45S 153.48E 0 3.6,3.4
¶17203867
IDC Error ellipse: s-maj=143.2km s-min=38.7km az=113.0.
IDC V 21 14 52 45.8–3.3 3.71S 151.30E 0 3.7,3.5
¶17204144
IDC Error ellipse: s-maj=119.5km s-min=45.3km az=121.0.
IDC V 22 15 50 14.2–4.9 3.63S 153.15E 0 3.6,3.3
¶17204233
IDC Error ellipse: s-maj=225.4km s-min=58.4km az=117.0.
ISC V 23 22 13 37.6–.67 4.57S–.08 153.72E–.10 95–4 4.3b 68 2-151
IDC V 23 22 13 36.8–.78 4.58S 153.78E 92–5 4.3,4.1 **¶16710750**
ISCJB V 23 22 13 37.9–1.6 4.57S–.05 153.7E–.10 111–12 4.3b,4.1
NEIC V 23 22 13 38.8–1.2 4.57S 153.72E 106–9 4.5b,4.1
DJA V 23 22 13 41.9–2.9 5S–13 154E–17 121–21 5.8,5.5b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 26 11 52 22.9–3.8 3.49S 152.05E 0 3.9,3.6
¶17204505
IDC Error ellipse: s-maj=156.7km s-min=49.6km az=117.0.
IDC V 29 22 47 36.4–3.3 5.58S 153.41E 0 3.8,3.6
¶17204730
IDC Error ellipse: s-maj=97.5km s-min=32.0km az=108.0.
IDC V 31 09 47 49.1–2.3 3.69S 151.70E 0 3.8,3.6s
¶17204821
IDC Error ellipse: s-maj=221.0km s-min=27.5km az=125.0.
ISC VI 01 08 48 12.7–.45 5.39S–.06 153.35E–.08 10 4.6b,3.6s 83 2-151
ISCJB VI 01 08 48 10.2–.38 5.40S–.05 153.40E–.07 10 4.5b,3.6s **¶16552975**
IDC VI 01 08 48 10.9–.59 5.35S 153.10E 0 4.5,4.4
NEIC VI 01 08 48 14.4–3.7 5.37S 153.42E 27–25 4.7b,4.4
BJI VI 01 08 48 14.1 5.20S 153.40E 31 5.0b,4.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=7.4km az=15.3.
IDC Error ellipse: s-maj=21.7km s-min=12.8km az=104.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=8.3km az=89.0.
IDC VI 01 13 07 27.3–6.5 5.53S 153.03E 57–52 3.8,3.7
¶17204892
IDC Error ellipse: s-maj=71.1km s-min=25.8km az=115.0.
IDC VI 02 19 21 00.8–3.1 5.35S 153.39E 0 3.5,3.4
¶17205018
IDC Error ellipse: s-maj=105.4km s-min=30.9km az=116.0.
ISC VI 03 10 45 38.5–.76 5.4S–.10 153.1E–.10 37 4.0b,3.6s 25 7-151
IDC VI 03 10 45 33.2–1.3 5.31S 153.09E 0 4.2,4.1 **¶16556043**
ISCJB VI 03 10 45 36.5–.59 5.36S–.08 153.2E–.10 37 4.1b,3.6s
NEIC VI 03 10 45 38.1–.46 5.40S 153.18E 35 4.2b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=42.9km s-min=15.0km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=8.7km az=28.7.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=6.9km az=118.0.
IDC VI 04 20 13 04.3–9.2 4.99S 153.57E 163–61 3.7,3.4
¶17205250
IDC Error ellipse: s-maj=98.3km s-min=36.0km az=103.0.
IDC VI 05 06 30 47.9–1.4 3.39S 151.80E 0 3.9,3.8
¶17205283
IDC Error ellipse: s-maj=43.1km s-min=24.4km az=127.0.
ISC VI 05 07 02 10.6–.57 3.76S–.04 152.19E–.05 20–2 5.3b,4.7s 386 0-157
IDC VI 05 07 02 06.8–.44 3.70S 152.20E 0 5.0,5.0 **¶16557338**
ISCJB VI 05 07 02 07.0–.16 3.69S–.02 152.13E–.03 10 5.2b,4.7s
BJI VI 05 07 02 07.4 3.27S 152.45E 9 5.3b,5.1b
GCMT VI 05 07 02 08.7–.10 3.76S 151.96E 12 5.4W,5.1b
NEIC VI 05 07 02 08.7–.16 3.69S 152.08E 10 5.4b,5.1b
MOS VI 05 07 02 09.9–1.3 3.65S 152.05E 29 5.5b,4.8s
DJA VI 05 07 02 11.6–1.5 4S–3.0 152E–5.0 28–11 6.0,5.8b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c131; s124,c221;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$1.40±.02; $M_{\phi\phi}$-1.29±.02; $M_{r\theta}$0.17±.05; $M_{\theta\phi}$-0.13±.02; $M_{\theta r}$-0.33±.05; Best double couple: NP1:ϕ_s317.00000°,δ85.00000°,λ-15.00000°. NP2:ϕ_s48.00000° ,δ75.00000°,λ-175.00000°. Principal axes: T 1.4280,Plg7.0000°,Azm4.0000° ; N -0.0510,Plg74.0000°,Azm119.0000°; P -1.3780,Plg14.0000°,Azm272.0000° M_o1.40300×10^{17}
NEIC Event type fe. Felt at Namatanai. Also felt at Kokopo and Rabaul, New Britain.
IDC VI 05 07 14 52.5–3.1 4.58S 153.70E 0 3.5,3.2
¶17205288
IDC Error ellipse: s-maj=271.0km s-min=31.7km az=128.0.
ISC VI 05 07 15 23.7–.99 3.7S–.10 152.2E–.20 35 3.6b 10 8-149
IDC VI 05 07 15 18.3–.94 3.61S 152.28E 0 4.0,3.9 **¶17205291**
ISCJB VI 05 07 15 22.2–.83 3.6S–.10 152.3E–.20 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 05 07 31 35.4–.59 3.91S–.07 152.2E–.10 35 4.7b,4.2s 80 5-149
IDC VI 05 07 31 29.6–.69 3.96S 152.11E 0 4.3,4.2 **¶16856367**
GCMT VI 05 07 31 32.8–.20 3.71S 151.91E 16–1 5.0W,4.2
NEIC VI 05 07 31 32.8–.29 3.66S 151.95E 10 4.9b,4.2
ISCJB VI 05 07 31 34.5–.28 3.75S–.04 151.95E–.06 33 4.6b,4.2s
BJI VI 05 07 31 35.3 3.11S 151.74E 10 5.1b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=15.4km az=94.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c30; s103,c153; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.31±.11 $M_{\theta\theta}$1.22±.10; $M_{\phi\phi}$-0.91±.10; $M_{r\theta}$0.37±.33; $M_{\theta\phi}$3.32±.09; $M_{\theta r}$0.30±.26; Best double couple: NP1:ϕ_s9.00000°,δ86.00000° ,λ175.00000°. NP2:ϕ_s99.00000°,δ85.00000°,λ4.00000°. Principal axes: T 3.6990,Plg7.0000°

,Azm324.0000°; N -0.3640,Plg83.0000°,Azm148.0000°; P -3.3320,Plg0.0000°,Azm54.0000° $M_0$3.51600×10^{16}
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.3km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.0km az=15.0.
IDC VI 05 07 53 55.4–2.9 3.89S 151.68E 0 3.7,3.4 ¶17205294
IDC Error ellipse: s-maj=299.5km s-min=28.3km az=126.0.
IDC VI 05 09 03 35.6–4.1 3.61S 152.52E 0 3.5,3.2 ¶17205305
IDC Error ellipse: s-maj=193.4km s-min=49.8km az=118.0.
IDC VI 06 23 54 34.5–8.9 5.18S 154.00E 152–59 4.0,3.7 ¶17205437
IDC Error ellipse: s-maj=90.1km s-min=32.2km az=97.0.
IDC VI 07 14 45 05.5–2.0 3.35S 151.35E 0 3.8,3.5 ¶17205492
IDC Error ellipse: s-maj=173.4km s-min=27.5km az=124.0.
IDC VI 09 07 14 13.2–2.1 2.96S 151.02E 0 3.8,3.5 ¶17205604
IDC Error ellipse: s-maj=224.2km s-min=26.6km az=124.0.
ISC VI 09 12 09 47.0–.39 3.59S–.05 150.65E–.08 27 4.7b,4.1s 148 4-153
IDC VI 09 12 09 41.1–.63 3.69S 151.00E 0 4.4,4.2 **¶16587346**
ISCJB VI 09 12 09 46.0–.24 3.57S–.04 150.56E–.05 27 4.6b,4.0s
BJI VI 09 12 09 47.8 3.50S 150.60E 39 5.0b,4.7b
MOS VI 09 12 09 47.3–1.6 3.53S 150.48E 38 5.1b,4.7b
NEIC VI 09 12 09 48.7–.26 3.55S 150.57E 35 4.9b,4.7b
GCMT VI 09 12 09 48.7–.20 3.57S 151.13E 16–1 5.0W,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=13.7km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.7km az=31.1.
MOS Error ellipse: s-maj=13.3km s-min=7.6km az=81.6.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.5km az=120.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c47; s104,c164; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.65±.10 $M_{\theta\theta}$2.21±.09; $M_{\phi\phi}$-1.56±.08; $M_{r\theta}$0.16±.26; $M_{\theta\phi}$2.92±.08; $M_{\phi r}$-1.09±.27; Best double couple: NP1:ϕ_s18.00000°,δ80.00000°,λ-162.00000°. NP2:ϕ_s285.00000°,δ72.00000°,λ-11.00000°. Principal axes: T 3.8340,Plg5.0000°,Azm151.0000°; N -0.3100,Plg69.0000°,Azm47.0000° ; P -3.5250,Plg20.0000°,Azm242.0000° $M_0$3.68000×10^{16}
IDC VI 10 16 45 35.5–4.4 2.79S 151.80E 0 3.5,3.2 ¶17205719
IDC Error ellipse: s-maj=194.1km s-min=53.0km az=115.0.
ISC VI 13 12 32 30.3–1.7 5.4S–.30 153.7E–.30 43 3.5b 8 8-151
IDC VI 13 12 32 36.0–7.3 5.34S 153.28E 80–54 3.9,3.7 **¶17206050**
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=37.9km az=107.0.
ISC VI 14 07 13 08.9–.30 5.18S–.04 153.41E–.05 56 4.8b,4.0s 211 2-151
IDC VI 14 07 13 04.8–3.9 5.07S 153.30E 22–24 4.7,4.6 **¶16594461**
MOS VI 14 07 13 05.2–.98 5.00S 153.27E 33 5.2b,4.6
BJI VI 14 07 13 06.9 4.56S 153.37E 31 5.0b,4.9b
ISCJB VI 14 07 13 07.3–.20 5.16S–.03 153.35E–.03 56 4.8b,4.1s
GCMT VI 14 07 13 08.3–.30 5.07S 153.16E 40–1 5.0W,4.1s
NEIC VI 14 07 13 08.3–.64 5.09S 153.29E 49–6 5.0b,4.1s
DJA VI 14 07 13 09.0–.60 5S–4.0 154E–4.0 45–7 5.6,5.4b
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c33; s63,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.25±.20 $M_{\theta\theta}$3.13±.12; $M_{\phi\phi}$-1.89±.15; $M_{r\theta}$1.43±.15; $M_{\theta\phi}$-0.21±.11; $M_{\phi r}$-1.40±.16; Best double couple: NP1:ϕ_s309.00000°,δ76.00000°,λ-45.00000°. NP2:ϕ_s53.00000°,δ47.00000°,λ-160.00000°. Principal axes: T 3.6250,Plg18.0000°,Azm7.0000°; N -0.5370,Plg43.0000°,Azm115.0000° ; P -3.0980,Plg41.0000°,Azm260.0000° $M_0$3.36200×10^{16}
NEIC Event type se.
IDC VI 18 01 10 01.7–3.5 5.29S 153.85E 0 3.9,3.8 ¶17206427
IDC Error ellipse: s-maj=129.8km s-min=31.4km az=113.0.
IDC VI 21 18 41 08.3–6.4 3.53S 152.12E 445–53 3.7,3.0 ¶17206692
IDC Error ellipse: s-maj=108.6km s-min=58.6km az=121.0.
IDC VI 23 00 03 53.9–2.5 5.10S 153.17E 0 3.8,3.5 ¶17206789
IDC Error ellipse: s-maj=187.1km s-min=27.6km az=127.0.
ISC VI 23 06 50 08.0–.61 5.57S–.09 153.90E–.09 74 4.4b 34 7-152
IDC VI 23 06 50 05.2–3.4 5.49S 153.94E 49–30 4.4,4.2 **¶16731292**
NEIC VI 23 06 50 05.5–1.6 5.51S 153.96E 54–14 4.7b,4.2
ISCJB VI 23 06 50 06.4–.48 5.58S–.06 153.90E–.07 74 4.3b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 25 06 01 27.0–3.1 3.93S 152.57E 0 3.9,3.7 ¶17206906
IDC Error ellipse: s-maj=127.5km s-min=43.5km az=123.0.
ISC VI 26 13 30 06.1–1.6 4.9S–.20 153.3E–.30 43 4.0b 15 8-151
ISCJB VI 26 13 30 05.1–1.5 4.8S–.20 153.1E–.20 43 4.0b **¶17206993**
IDC VI 26 13 30 06.5–6.1 4.89S 153.34E 50–48 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.1km s-min=10.0km az=34.1.
IDC Error ellipse: s-maj=52.3km s-min=21.8km az=106.0.
IDC VI 28 20 02 55.4–6.0 4.51S 153.79E 94–49 4.0,3.8 ¶17207153
IDC Error ellipse: s-maj=44.0km s-min=25.1km az=88.0.
IDC VI 29 10 54 22.3–1.4 3.68S 151.69E 0 3.9,3.7b ¶17207189
IDC Error ellipse: s-maj=64.7km s-min=22.9km az=118.0.
ISC VI 29 10 55 01.2–2.0 4.0S–.30 152.4E–.40 35 3.8b 8 7-88
IDC VI 29 10 54 55.8–2.0 3.96S 152.38E 0 4.2,4.0b **¶17207192**
ISCJB VI 29 10 54 59.7–1.7 4.0S–.20 152.3E–.30 33 3.8b,4.0b
ISC Event type ke.
ISCJB Event type ke.

(191) North of Solomon Islands.

IDC II 17 07 59 09.7–3.9 3.56S 154.39E 0 3.9,3.6 ¶17192404
IDC Error ellipse: s-maj=180.7km s-min=49.3km az=119.0.
IDC VI 09 05 32 23.8–4.0 3.73S 154.24E 0 3.9,3.6 ¶17205598
IDC Error ellipse: s-maj=191.3km s-min=49.8km az=119.0.

(192) New Britain region.

IDC I 02 05 46 22.8–3.2 6.80S 150.15E 0 3.4,3.2 ¶17189187
IDC Error ellipse: s-maj=86.1km s-min=49.9km az=105.0.
IDC I 02 09 07 48.9–2.0 6.87S 151.06E 0 3.9,3.7 ¶17189204
IDC Error ellipse: s-maj=103.1km s-min=25.8km az=132.0.
IDC I 02 10 35 59.0–3.3 5.77S 150.49E 0 3.7,3.7 ¶17189212
IDC Error ellipse: s-maj=112.5km s-min=40.8km az=120.0.
IDC I 02 11 46 07.2–6.5 5.09S 151.96E 88–48 3.9,3.8 ¶17189217
IDC Error ellipse: s-maj=96.4km s-min=40.7km az=132.0.
IDC I 02 18 46 47.8–7.5 5.65S 149.51E 103–52 3.4,3.2 ¶17189233
IDC Error ellipse: s-maj=132.2km s-min=61.6km az=114.0.
IDC I 03 15 52 23.8–8.4 6.13S 150.47E 49–63 3.4,3.4 ¶17189335
IDC Error ellipse: s-maj=104.3km s-min=59.1km az=130.0.
IDC I 03 16 23 31.9–7.3 4.19S 151.59E 112–51 4.3s,4.3 ¶17189339
IDC Error ellipse: s-maj=101.8km s-min=49.4km az=124.0.
ISC I 03 16 53 39.8–1.4 6.7S–.30 150.7E–.30 36 3.6b 8 4-149
IDC I 03 16 53 34.1–1.6 6.67S 150.87E 0 3.8,3.6 **¶17189343**
ISCJB I 03 16 53 38.2–1.3 6.7S–.30 150.7E–.20 36 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC I 04 14 23 35.9–3.1 5.49S 152.17E 0 3.5,3.4 ¶17189428
IDC Error ellipse: s-maj=128.7km s-min=42.4km az=124.0.
IDC I 04 15 11 37.8–2.6 4.98S 152.91E 0 3.4,3.3 ¶17189434
IDC Error ellipse: s-maj=214.7km s-min=30.8km az=128.0.
ISC I 04 18 28 48.5–1.1 4.9S–.30 151.0E–.30 155 3.7b 13 6-149
IDC I 04 18 28 44.2–2.3 4.85S 151.12E 119–15 4.0,3.8 **¶17189445**
ISCJB I 04 18 28 47.0–1.1 5.0S–.20 151.0E–.30 155 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC I 04 18 45 04.3–7.8 5.53S 151.51E 100–53 4.1,4.0s ¶17189447
IDC Error ellipse: s-maj=89.1km s-min=34.7km az=107.0.
ISC I 04 22 55 39.3–.46 4.36S–.07 152.23E–.09 153 4.6b 108 7-157
ISCJB I 04 22 55 38.0–.37 4.35S–.05 152.27E–.06 153 4.6b **¶15908107**
MOS I 04 22 55 39.8–1.1 4.36S 152.14E 170 4.5b
IDC I 04 22 55 40.9–.73 4.39S 152.09E 169–6 4.7,4.4
NEIC I 04 22 55 40.5–1.4 4.33S 152.11E 166–13 4.8b,4.4
DJA I 04 22 55 45.0–2.6 5S–10 152E–24 209–13 5.3b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 05 01 23 25.6–4.2 5.69S 149.68E 0 3.4,3.1 ¶17189468
IDC Error ellipse: s-maj=167.1km s-min=49.0km az=115.0.
ISC I 05 11 59 51.2–1.1 6.3S–.20 150.2E–.20 43 3.6b 17 4-148
ISCJB I 05 11 59 49.9–1.1 6.4S–.20 150.2E–.20 43 3.6b **¶17189501**
IDC I 05 11 59 50.8–1.2 6.32S 150.15E 35–5 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.3km s-min=11.0km az=34.6.
IDC Error ellipse: s-maj=42.9km s-min=14.2km az=114.0.
IDC I 07 11 46 39.7–2.0 5.68S 152.38E 0 4.1,3.9 ¶17189638
IDC Error ellipse: s-maj=75.9km s-min=27.0km az=120.0.
IDC I 08 15 08 54.0–3.7 5.55S 149.80E 0 3.5,3.2 ¶17189704
IDC Error ellipse: s-maj=139.6km s-min=46.7km az=115.0.
IDC I 08 18 57 48.6–3.1 5.20S 152.23E 0 4.0,3.9 ¶17189713
IDC Error ellipse: s-maj=116.5km s-min=42.4km az=126.0.
IDC I 10 02 49 12.8–3.8 4.95S 150.29E 0 3.4,3.3 ¶17189809
IDC Error ellipse: s-maj=161.4km s-min=36.6km az=115.0.
ISC I 11 08 04 38.8–.59 6.33S–.08 149.5E–.10 49 4.2b,3.5s 34 4-148
ISCJB I 11 08 04 37.0–.48 6.31S–.05 149.50E–.10 49 4.1b,3.4s **¶16007267**
IDC I 11 08 04 37.4–2.6 6.32S 149.61E 37–20 4.2,4.1
NEIC I 11 08 04 39.2–2.3 6.32S 149.50E 52–20 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=6.6km az=19.3.
IDC Error ellipse: s-maj=24.6km s-min=12.6km az=97.0.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=12.4km az=87.0.
IDC I 11 13 14 39.7–3.6 5.95S 152.59E 0 3.6,3.4 ¶17189918
IDC Error ellipse: s-maj=127.0km s-min=34.1km az=112.0.
IDC I 11 19 13 39.8–3.7 5.46S 150.92E 0 3.5,3.2 ¶17189939
IDC Error ellipse: s-maj=146.0km s-min=50.4km az=117.0.
IDC I 12 12 26 01.8–4.0 6.12S 150.12E 0 3.6,3.4 ¶17189993
IDC Error ellipse: s-maj=144.3km s-min=46.4km az=118.0.
IDC I 12 16 36 40.6–19 5.74S 152.88E 268–84 3.5,3.1 ¶17190003
IDC Error ellipse: s-maj=257.5km s-min=38.2km az=87.0.
IDC I 13 05 02 22.3–1.8 5.64S 149.18E 0 4.0,3.8 ¶17190032
IDC Error ellipse: s-maj=84.6km s-min=25.0km az=123.0.
ISC I 13 16 52 36.2–.59 5.1S–.10 152.74E–.10 43 4.2b 26 7-158
ISCJB I 13 16 52 34.2–.52 5.17S–.09 152.76E–.08 43 4.1b **¶16031135**
IDC I 13 16 52 36.1–4.1 5.23S 152.85E 47–37 4.1,4.1
NEIC I 13 16 52 37.7–1.4 5.26S 152.80E 63–14 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=8.2km az=136.8.
IDC Error ellipse: s-maj=39.7km s-min=22.3km az=129.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=8.3km az=156.0.
IDC I 14 04 20 30.7–2.0 4.70S 152.73E 0 3.8,3.6 ¶17190133
IDC Error ellipse: s-maj=92.4km s-min=26.4km az=121.0.
IDC I 14 12 54 19.9–3.8 4.17S 150.71E 0 3.7,3.5 ¶17190165
IDC Error ellipse: s-maj=130.5km s-min=29.3km az=106.0.
IDC I 14 14 57 05.7–3.4 5.81S 149.76E 0 3.9,3.7 ¶17190180
IDC Error ellipse: s-maj=104.9km s-min=40.6km az=115.0.
ISC I 15 06 15 04.4–2.1 5.0S–.30 151.7E–.40 129 4.1b 9 6-149
ISCJB I 15 06 15 03.5–2.0 4.9S–.30 151.6E–.40 129 4.0b **¶17190228**
IDC I 15 06 15 06.0–4.7 5.13S 151.68E 147–38 4.3,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=65.2km s-min=10.9km az=33.3.
IDC Error ellipse: s-maj=59.8km s-min=27.4km az=118.0.
IDC I 15 14 52 21.9–5.5 5.30S 152.33E 76–47 4.1,3.9 ¶17190259
IDC Error ellipse: s-maj=43.1km s-min=26.0km az=103.0.
ISC I 15 17 31 31.2–1.5 5.5S–.20 150.9E–.30 65 3.7b 8 5-149
IDC I 15 17 31 22.3–1.6 5.33S 151.06E 0 4.2,4.0 **¶17190271**
ISCJB I 15 17 31 29.9–1.3 5.5S–.20 150.8E–.30 65 3.6b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 16 00 48 24.8–2.4 5.72S 150.74E 0 3.9,3.5 ¶17190282
IDC Error ellipse: s-maj=151.0km s-min=35.0km az=129.0.
IDC I 17 06 04 14.0–4.5 5.25S 149.25E 0 3.4,3.4 ¶17190381
IDC Error ellipse: s-maj=150.7km s-min=22.9km az=104.0.
IDC I 17 23 50 36.8–1.9 5.64S 149.16E 0 4.1,3.8 ¶17190439
IDC Error ellipse: s-maj=133.3km s-min=28.9km az=125.0.
IDC I 19 07 41 49.8–3.9 4.79S 151.72E 0 3.4,3.2 ¶17190537
IDC Error ellipse: s-maj=179.6km s-min=46.9km az=119.0.
ISC I 19 17 51 45.1–1.5 5.3S–.20 152.2E–.30 40 3.6b 10 6-96
IDC I 19 17 51 38.9–1.5 5.29S 152.30E 0 4.1,3.8 **¶17190573**
ISCJB I 19 17 51 44.0–1.3 5.3S–.20 152.0E–.20 40 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 21 18 01 10.0–1.6 5.9S–.20 148.7E–.50 60 3.3b 7 4-147
ISCJB I 21 18 01 08.8–1.6 5.9S–.20 148.6E–.40 60 3.4b **¶17190689**
IDC I 21 18 01 10.9–6.0 6.07S 148.82E 74–58 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=55.3km s-min=13.8km az=19.7.
IDC Error ellipse: s-maj=87.3km s-min=33.9km az=134.0.
IDC I 22 04 19 39.4–1.9 6.68S 152.29E 0 4.0,3.7 ¶17190715
IDC Error ellipse: s-maj=120.1km s-min=25.2km az=131.0.
ISC I 22 04 55 34.2–.46 6.14S–.06 149.22E–.08 60 4.8b,3.1s 63 4-152
BJI I 22 04 55 29.3 6.87S 149.91E 89 5.1b,5.0s **¶16032947**
ISCJB I 22 04 55 32.8–.40 6.06S–.05 149.14E–.07 60 4.8b,3.4s
IDC I 22 04 55 35.7–3.0 6.00S 149.01E 77–26 4.5,4.4

NEIC I 22 04 55 38.2–.95 6.14S 149.11E 101–9 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.5km az=25.2.
IDC Error ellipse: s-maj=22.8km s-min=14.8km az=89.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.5km az=120.0.
IDC I 23 09 40 19.8–8.4 6.59S 150.64E 80–58 3.6,3.4
¶17190788

IDC Error ellipse: s-maj=94.1km s-min=59.5km az=147.0.
ISC I 23 10 30 23.5–.66 4.5S–.10 152.4E–.10 58 4.0b 22 7-152
ISCJB I 23 10 30 22.2–.57 4.52S–.10 152.3E–.10 58 4.0b **¶16022176**
IDC I 23 10 30 29.6–4.2 4.67S 152.34E 113–37 4.1,4.0
NEIC I 23 10 30 31.2–2.2 4.70S 152.32E 129–19 4.6b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=9.6km az=39.2.
IDC Error ellipse: s-maj=21.5km s-min=21.2km az=50.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=14.3km az=168.0.
IDC I 23 16 15 02.2–6.8 6.72S 149.09E 101–47 3.7,3.5
¶17190817

IDC Error ellipse: s-maj=97.2km s-min=52.2km az=124.0.
ISC I 23 18 36 54.8–.66 6.15S–.09 149.7E–.10 58 4.0b,3.3s 21 4-152
ISCJB I 23 18 36 53.3–.64 6.11S–.08 149.7E–.10 58 3.9b,3.3s **¶17190823**
IDC I 23 18 36 56.3–2.0 6.19S 149.58E 70–17 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=8.3km az=28.4.
IDC Error ellipse: s-maj=20.6km s-min=10.9km az=121.0.
IDC I 24 11 06 43.9–6.5 5.17S 149.15E 467–74 4.2,3.6
¶17190884

IDC Error ellipse: s-maj=64.3km s-min=36.7km az=101.0.
ISC I 24 14 44 27.7–.44 5.79S–.07 151.37E–.09 50 4.5b,3.9s 70 2-156
IDC I 24 14 44 20.2–.53 5.68S 151.24E 0 4.8L,4.5 **¶15964364**
ISCJB I 24 14 44 25.7–.31 5.80S–.04 151.34E–.05 50 4.5b,3.8s
NEIC I 24 14 44 26.9–.78 5.74S 151.31E 47–7 4.6b,3.8s
BJI I 24 14 44 33.9 4.92S 150.69E 57 4.9b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.3km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.3km az=26.9.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.9km az=123.0.
IDC I 24 19 41 25.9–5.7 5.84S 150.87E 92–45 3.7,3.6
¶17190917

IDC Error ellipse: s-maj=119.7km s-min=34.1km az=126.0.
ISC I 25 03 19 11.5–.60 4.67S–.09 152.0E–.10 112–3 4.1b 52 7-157
ISCJB I 25 03 19 09.2–1.8 4.59S–.08 151.9E–.10 101–16 4.1b **¶16022423**
IDC I 25 03 19 11.3–.56 4.67S 151.90E 108–3 4.2,4.1
NEIC I 25 03 19 13.1–2.0 4.69S 151.94E 126–18 4.1b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.7km s-min=10.3km az=30.8.
IDC Error ellipse: s-maj=17.7km s-min=8.3km az=118.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=12.7km az=101.0.
IDC I 25 10 10 11.6–4.4 5.30S 151.59E 102–38 4.0,3.8
¶17190956

IDC Error ellipse: s-maj=35.6km s-min=22.9km az=112.0.
IDC I 25 23 29 28.8–2.0 6.97S 150.06E 0 3.9,3.7
¶17190994

IDC Error ellipse: s-maj=78.2km s-min=21.3km az=124.0.
ISC I 26 13 13 36.1–.59 6.0S–.10 151.5E–.10 41 4.2b,3.3s 26 6-151
ISCJB I 26 13 13 34.6–.52 5.91S–.09 151.42E–.10 41 4.2b,3.3s **¶16020119**
IDC I 26 13 13 38.6–3.8 5.97S 151.40E 64–34 4.3,4.2
NEIC I 26 13 13 39.4–2.1 5.91S 151.34E 69–18 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=8.1km az=40.7.
IDC Error ellipse: s-maj=22.0km s-min=18.4km az=94.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=14.2km az=85.0.
IDC I 26 15 35 17.6–2.7 7.07S 150.85E 0 3.4,3.2
¶17191047

IDC Error ellipse: s-maj=101.1km s-min=37.1km az=132.0.
ISC I 26 21 06 25.4–.63 5.87S–.10 151.5E–.10 41 4.4b,3.8s 31 6-151
IDC I 26 21 06 18.8–.76 5.92S 151.64E 0 4.5,4.3 **¶16135886**
ISCJB I 26 21 06 23.8–.60 5.86S–.08 151.5E–.10 41 4.3b,3.8s
NEIC I 26 21 06 25.4–2.3 5.91S 151.50E 43–20 4.6b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=27.0km s-min=15.7km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=8.1km az=32.6.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=12.5km az=90.0.
IDC I 27 02 23 47.0–4.5 5.00S 151.63E 167–37 3.6s,3.6
¶17191073

IDC Error ellipse: s-maj=56.3km s-min=26.3km az=112.0.
ISC I 27 19 37 31.9–1.1 4.2S–.20 152.9E–.20 35 3.8b 9 8-150
IDC I 27 19 37 27.0–1.1 4.16S 152.76E 0 4.0,3.8 **¶16135985**
ISCJB I 27 19 37 30.4–.98 4.2S–.10 152.9E–.10 35 3.8b,3.8
NEIC I 27 19 37 31.9–.70 4.20S 152.85E 35 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=35.9km s-min=21.8km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=25.6km s-min=11.9km az=136.6.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=13.5km az=127.0.
ISC I 28 02 13 11.8–.55 5.26S–.08 152.9E–.10 37 4.2b,3.4s 35 7-151
IDC I 28 02 13 06.3–.64 5.23S 152.92E 0 4.3,4.2 **¶16136022**
ISCJB I 28 02 13 10.1–.44 5.27S–.06 152.88E–.08 37 4.2b,3.5s
NEIC I 28 02 13 11.5–4.4 5.25S 152.94E 35–31 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=13.9km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=7.1km az=30.7.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=10.3km az=77.0.
IDC I 28 04 52 48.6–3.3 6.11S 150.15E 0 3.6,3.4
¶17191173

IDC Error ellipse: s-maj=131.6km s-min=37.7km az=121.0.
ISC I 28 17 33 39.9–.77 6.3S–.10 150.6E–.20 33 4.3b,3.2s 22 5-149
ISCJB I 28 17 33 38.6–.66 6.2S–.10 150.5E–.10 33 4.2b,3.4s **¶16136061**
IDC I 28 17 33 38.9–4.1 6.34S 150.66E 28–27 4.3,4.2
NEIC I 28 17 33 40.9–2.6 6.27S 150.53E 42–22 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.1km s-min=8.0km az=33.5.
IDC Error ellipse: s-maj=34.0km s-min=13.2km az=121.0.
NEIC Event type se. Error ellipse: s-maj=23.4km s-min=13.6km az=106.0.
IDC I 28 21 59 06.7–6.1 6.34S 151.29E 78–49 3.7,3.6
¶17191217

IDC Error ellipse: s-maj=63.6km s-min=30.5km az=115.0.
ISC I 29 05 21 36.4–.00 4.8S–.10 152.5E–.20 55 4.2b 16 7-150
ISCJB I 29 05 21 34.9–.86 4.8S–.10 152.4E–.10 55 4.1b,3.3s **¶16022179**
IDC I 29 05 21 42.4–4.8 4.93S 152.30E 110–41 4.2,4.0
NEIC I 29 05 21 45.8–2.4 4.97S 152.20E 140–19 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.6km s-min=10.0km az=37.2.
IDC Error ellipse: s-maj=30.5km s-min=21.8km az=103.0.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=16.1km az=115.0.
IDC I 29 19 08 33.4–1.6 5.68S 150.75E 0 3.7,3.5
¶17191266

IDC Error ellipse: s-maj=80.5km s-min=24.1km az=123.0.
IDC I 30 10 01 09.3–4.7 5.78S 150.85E 0 3.3,3.1
¶17191307

IDC Error ellipse: s-maj=202.4km s-min=56.6km az=118.0.
IDC I 30 16 31 34.7–5.3 6.22S 150.71E 0 3.3,3.1
¶17191336

IDC Error ellipse: s-maj=159.5km s-min=34.2km az=108.0.
ISC I 30 17 42 47.5–1.2 5.5S–.20 152.2E–.20 45 3.9b 13 6-150
IDC I 30 17 42 41.0–1.3 5.42S 152.24E 0 4.1,3.8 **¶16136228**
ISCJB I 30 17 42 45.8–1.1 5.5S–.20 152.1E–.20 45 3.8b,3.8
NEIC I 30 17 42 46.3–.87 5.44S 152.20E 35 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=46.7km s-min=21.6km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=40.0km s-min=9.8km az=38.4.
NEIC Event type se. Error ellipse: s-maj=33.7km s-min=11.8km az=126.0.

ISC I 31 16 00 29.0–1.2 6.0S–.30 151.5E–.30 41 3.6b 10 6-149
IDC I 31 16 00 22.9–1.2 5.95S 151.69E 0 3.9,3.7 **¶17191417**
ISCJB I 31 16 00 27.6–1.0 5.9S–.30 151.5E–.30 41 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC I 31 20 11 44.0–3.3 5.88S 151.26E 0 3.8,3.5b
¶17191432

IDC Error ellipse: s-maj=114.4km s-min=47.1km az=122.0.
IDC II 01 15 26 42.9–8.8 5.44S 151.57E 92–60 3.1,2.9
¶17191487

IDC Error ellipse: s-maj=101.3km s-min=33.1km az=104.0.
ISC II 01 15 35 50.8–1.8 5.6S–.30 151.6E–.40 57 3.7b 9 6-149
IDC II 01 15 35 51.0–6.2 5.64S 151.49E 54–50 3.9,3.9 **¶17191489**
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=29.1km az=118.0.
IDC II 02 05 15 26.4–6.0 6.33S 148.71E 77–60 4.0L,3.8
¶17191522

IDC Error ellipse: s-maj=99.7km s-min=33.4km az=134.0.
IDC II 02 12 10 48.8–1.6 5.67S 148.47E 0 4.1L,3.9
¶17191542

IDC Error ellipse: s-maj=73.4km s-min=24.3km az=121.0.
IDC II 02 21 47 24.2–4.4 6.61S 151.17E 0 3.6,3.4
¶17191559

IDC Error ellipse: s-maj=199.1km s-min=52.5km az=121.0.
IDC II 03 10 58 21.5–5.7 5.04S 151.13E 199–39 4.2,3.8
¶17191593

IDC Error ellipse: s-maj=88.6km s-min=44.6km az=124.0.
ISC II 03 18 38 57.7–1.9 5.2S–.40 152.7E–.40 35 3.7b 8 7-150
IDC II 03 18 38 50.9–1.5 5.41S 153.12E 0 4.0,3.8 **¶17191609**
ISC Event type ke.
IDC Error ellipse: s-maj=61.7km s-min=22.5km az=122.0.
IDC II 03 19 01 19.3–3.5 6.18S 149.59E 0 3.8,3.7
¶17191611

IDC Error ellipse: s-maj=110.7km s-min=37.4km az=117.0.
IDC II 04 05 08 10.1–2.7 6.47S 148.24E 0 4.0,4.0L
¶17191635

IDC Error ellipse: s-maj=65.4km s-min=37.0km az=98.0.
IDC II 04 05 42 05.3–3.8 5.93S 150.96E 0 3.6,3.3
¶17191636

IDC Error ellipse: s-maj=142.4km s-min=52.4km az=119.0.
IDC II 04 06 48 31.9–3.9 5.83S 150.72E 0 3.7,3.5
¶17191640

IDC Error ellipse: s-maj=157.3km s-min=51.5km az=118.0.
ISC II 04 20 52 49.7–.49 6.21S–.06 150.82E–.08 43 4.5b,3.5s 65 2-151
IDC II 04 20 52 43.7–.60 6.13S 150.87E 0 4.5,4.3 **¶16007683**
ISCJB II 04 20 52 47.9–.34 6.22S–.05 150.81E–.07 43 4.5b,3.5s
BJI II 04 20 52 48.0 6.19S 151.00E 47 5.3b,4.8s
NEIC II 04 20 52 49.4–1.2 6.20S 150.82E 44–11 4.6b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=10.6km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=5.9km az=32.1.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.4km az=120.0.
ISC II 05 00 31 38.3–.46 5.06S–.06 151.17E–.08 155 4.2b 46 6-152
ISCJB II 05 00 31 36.8–.35 5.03S–.05 151.12E–.06 155 4.2b **¶16328736**
NEIC II 05 00 31 36.8–.93 5.00S 151.17E 141–9 4.4b
IDC II 05 00 31 36.3–1.4 5.02S 151.18E 135–12 4.4,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.2km az=14.6.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.9km az=76.0.
IDC Error ellipse: s-maj=13.1km s-min=8.9km az=113.0.
ISC II 05 14 06 19.1–.69 5.50S–.10 151.5E–.10 57 4.0b,3.1s 19 6-97
ISCJB II 05 14 06 17.5–.55 5.52S–.07 151.39E–.09 57 4.0b,3.1s **¶17191741**
IDC II 05 14 06 22.0–3.9 5.59S 151.39E 86–35 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=8.7km az=29.7.
IDC Error ellipse: s-maj=22.4km s-min=18.5km az=72.0.
IDC II 05 18 58 46.5–1.9 5.62S 150.40E 0 4.0,3.8
¶17191755

IDC Error ellipse: s-maj=107.2km s-min=23.8km az=128.0.
IDC II 08 18 48 43.0–3.1 4.20S 151.57E 0 4.0,3.8
¶17191905

IDC Error ellipse: s-maj=115.5km s-min=43.6km az=121.0.
ISC II 08 23 09 00.8–.80 4.7S–.10 152.5E–.10 58 4.2b 25 1-150
IDC II 08 23 08 53.4–.97 4.48S 152.37E 0 4.2,4.0 **¶16358553**
ISCJB II 08 23 08 59.0–.61 4.62S–.08 152.56E–.10 58 4.2b,4.0
NEIC II 08 23 09 03.3–.88 4.69S 152.48E 82–8 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=20.3km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=11.6km az=169.3.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=8.6km az=79.0.
IDC II 09 16 00 11.2–3.5 6.01S 150.34E 0 3.4,3.1
¶17191950

IDC Error ellipse: s-maj=135.1km s-min=46.6km az=117.0.
ISC II 09 18 00 47.1–1.5 6.2S–.20 148.7E–.40 65 3.7b 8 3-154
ISCJB II 09 18 00 45.6–1.4 6.2S–.20 148.6E–.30 65 3.6b **¶17191955**
IDC II 09 18 00 46.3–5.8 6.23S 148.73E 58–50 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.8km s-min=13.5km az=21.8.
IDC Error ellipse: s-maj=52.9km s-min=34.9km az=128.0.
IDC II 09 20 48 44.9–3.8 6.12S 153.18E 0 3.6,3.5
¶17191960

IDC Error ellipse: s-maj=128.7km s-min=30.4km az=110.0.
ISC II 10 09 28 45.7–1.1 6.0S–.10 149.4E–.20 58 4.0b,3.4s 22 4-152
ISCJB II 10 09 28 45.7–1.1 6.2S–.10 149.4E–.10 58 4.0b,3.4s **¶16358568**
IDC II 10 09 28 45.5–1.1 6.18S 149.56E 45–8 4.2,4.2
NEIC II 10 09 28 49.0–2.6 6.28S 149.50E 78–21 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.1km s-min=12.2km az=36.5.
IDC Error ellipse: s-maj=25.9km s-min=19.0km az=111.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=15.9km az=194.0.
ISC II 10 15 21 41.4–2.8 5.4S–.30 151.4E–.50 200 3.8b 9 6-149
IDC II 10 15 21 38.6–5.8 5.30S 151.50E 182–38 3.9,3.6 **¶17192015**
ISC Event type ke.
IDC Error ellipse: s-maj=79.5km s-min=29.5km az=108.0.
ISC II 11 09 22 23.4–.96 5.5S–.20 151.7E–.20 57 4.2b 11 6-151
ISCJB II 11 09 22 22.3–.91 5.5S–.20 151.6E–.20 57 4.1b,3.2s **¶17192064**
IDC II 11 09 22 26.2–4.9 5.56S 151.57E 82–42 4.2,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.5km s-min=10.5km az=41.1.
IDC Error ellipse: s-maj=40.3km s-min=24.3km az=115.0.
IDC II 11 11 10 07.6–3.8 6.49S 148.41E 0 3.9,3.8b
¶17192072

IDC Error ellipse: s-maj=100.9km s-min=36.1km az=105.0.
ISC II 12 22 51 12.5–.73 6.9S–.10 150.9E–.10 40 4.0b 18 4-149
IDC II 12 22 51 06.5–1.9 6.94S 150.94E 0 4.0,3.8 **¶16328819**
ISCJB II 12 22 51 10.6–.57 7.0S–.10 150.93E–.09 40 4.1b,3.0s
NEIC II 12 22 51 12.8–1.5 7.03S 150.87E 44–16 4.4b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=63.6km s-min=19.5km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=17.3km s-min=8.8km az=145.0.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=8.5km az=156.0.
ISC II 13 23 20 35.1–.72 6.3S–.10 152.9E–.10 100 3.8b 19 6-151
IDC II 13 23 20 32.9–17 6.15S 152.91E 75–138 3.8s,3.8 **¶16339731**
ISCJB II 13 23 20 33.7–.60 6.24S–.10 152.93E–.10 100 3.9b,3.8
NEIC II 13 23 20 33.2–1.3 6.17S 152.89E 78–13 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=128.9km s-min=47.1km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=12.7km az=142.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.7km az=158.0.
ISC II 13 23 51 03.4–.33 4.29S–.05 152.94E–.05 55 5.0b,3.7s 107 1-158
ISCJB II 13 23 51 01.2–.26 4.28S–.04 152.96E–.04 55 5.0b,3.8s **¶16024746**

BJI II 13 23 51 01.3 4.20S 152.77E 40 5.3b,5.2s
NEIC II 13 23 51 02.1–.91 4.29S 153.01E 49–8 5.3b,5.2s
IDC II 13 23 51 04.7–1.5 4.39S 152.85E 62–12 4.4,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.8km az=29.2.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.2km az=117.0.
IDC Error ellipse: s-maj=14.1km s-min=9.8km az=120.0.
ISC II 13 23 53 17.1–.85 4.3S–.20 152.6E–.10 100 4.2b 12 9-150
IDC II 13 23 53 04.8–1.8 4.08S 152.53E 0 4.4,4.1 **¶16339732**
ISCJB II 13 23 53 15.5–.82 4.3S–.10 152.6E–.10 100 4.0b,4.1
NEIC II 13 23 53 16.6–2.3 4.32S 152.60E 96–25 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=124.7km s-min=26.8km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=15.9km az=15.1.
NEIC Event type se. Error ellipse: s-maj=21.7km s-min=11.6km az=134.0.
IDC II 15 01 30 45.2–3.8 5.73S 149.72E 0 3.5,3.3
¶17192272
IDC Error ellipse: s-maj=140.9km s-min=42.0km az=114.0.
IDC II 15 01 31 23.3–1.4 6.09S 150.10E 0 4.1,3.9
¶17192275
IDC Error ellipse: s-maj=62.1km s-min=21.1km az=111.0.
ISC II 16 02 15 38.6–.39 6.15S–.03 149.43E–.05 49–2 5.1s,4.9b 388 3-154
IDC II 16 02 15 30.5–.33 6.07S 149.44E 0 4.8,4.8 **¶16026466**
ISCJB II 16 02 15 36.1–.70 6.11S–.03 149.44E–.04 45–6 5.1s,4.9b
MOS II 16 02 15 36.6–1.3 6.08S 149.36E 48 5.2b,5.0s
BJI II 16 02 15 37.6 6.20S 149.40E 58 5.3b,5.1s
GCMT II 16 02 15 38.2–.10 6.30S 149.49E 48–0 5.5W,5.1s
NEIC II 16 02 15 38.2–.82 6.12S 149.40E 49–7 5.4W,5.2s
DJA II 16 02 16 11.3–1.2 8S–9.0 148E–13 167–6 5.4,5.2b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s117,c208; s117,c229;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.39±.04 $M_{\theta\theta}$-2.80±.03; $M_{\phi\phi}$0.41±.03; $M_{r\theta}$0.36±.03; $M_{\theta\phi}$-0.01±.03; $M_{\phi r}$-0.31±.03; Best double couple: NP1:ϕ_s98.00000°,δ50.00000°,λ101.00000°. NP2:ϕ_s261.00000° ,δ42.00000°,λ77.00000°. Principal axes: T 2.4610,Plg81.0000°,Azm65.0000° ; N 0.3700,Plg8.0000°,Azm271.0000°; P -2.8250,Plg4.0000°,Azm180.0000° M_o2.64300×10^{17}
NEIC Event type fe. Felt at Kimbe. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17}Nm; M_{rr}1.36 $M_{\theta\theta}$-1.06 $M_{\phi\phi}$-0.30 $M_{r\theta}$0.53 $M_{\theta\phi}$-0.53 $M_{\phi r}$-0.13 Best double couple: NP1:ϕ_s76.00000° ,δ55.00000°,λ105.00000°. NP2:ϕ_s231.00000°,δ38.00000°,λ69.00000°. Principal axes: T 1.5000,Plg75.0000°,Azm31.0000°; N -0.1100,Plg12.0000°,Azm247.0000° ; P -1.4000,Plg9.0000°,Azm155.0000° M_o1.50000×10^{17}
ISC II 18 21 19 24.9–1.7 7.0S–.30 151.1E–.30 40 3.5b 11 5-149
IDC II 18 21 19 18.8–2.1 6.97S 151.19E 0 3.8,3.6 **¶17192504**
ISCJB II 18 21 19 23.9–1.4 7.0S–.20 151.0E–.20 40 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC II 19 15 02 26.8–7.6 5.84S 149.93E 103–52 3.5,3.3
¶17192539
IDC Error ellipse: s-maj=123.9km s-min=52.5km az=119.0.
ISC II 20 08 48 47.6–.81 6.5S–.10 150.3E–.20 33 3.7b,3.5s 25 4-155
IDC II 20 08 48 42.5–1.1 6.41S 150.44E 0 4.1,3.9 **¶16398597**
ISCJB II 20 08 48 46.1–.69 6.45S–.08 150.2E–.10 33 3.8b,3.6s
NEIC II 20 08 48 47.9–.45 6.44S 150.35E 35 4.5b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=39.6km s-min=17.9km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=8.6km az=24.7.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.0km az=107.0.
IDC II 20 13 19 57.8–3.1 7.55S 150.19E 0 3.6,3.4
¶17192586
IDC Error ellipse: s-maj=107.4km s-min=43.2km az=127.0.
IDC II 20 16 16 27.7–3.7 6.31S 150.17E 0 3.2,3.1
¶17192593
IDC Error ellipse: s-maj=148.1km s-min=42.7km az=119.0.
ISC II 21 10 05 18.5–.34 4.68S–.05 152.45E–.06 100 4.9b 221 1-158
IDC II 21 10 05 16.8–.77 4.62S 152.40E 88–6 4.8,4.7 **¶16168886**
MOS II 21 10 05 16.1–1.0 4.62S 152.44E 90 5.2b,4.7
ISCJB II 21 10 05 17.5–.19 4.64S–.04 152.40E–.03 100 4.8b,4.7
BJI II 21 10 05 17.4 4.84S 152.12E 98 4.9b,4.7b
GCMT II 21 10 05 18.6–.20 4.72S 152.48E 88–3 5.0W,4.7b
NEIC II 21 10 05 18.6–.61 4.62S 152.38E 100–5 5.0b,4.7b
DJA II 21 10 05 26.4–2.0 5S–9.0 152E–11 143–16 5.6,5.4b
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c42; s87,c119;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.42±.13 $M_{\theta\theta}$-1.56±.13; $M_{\phi\phi}$-0.85±.13; $M_{r\theta}$-1.45±.08; $M_{\theta\phi}$2.37±.11; $M_{\phi r}$0.82±.10; Best double couple: NP1:ϕ_s302.00000°,δ60.00000°,λ79.00000°. NP2:ϕ_s144.00000°,δ32.00000°,λ109.00000°. Principal axes: T 2.8930,Plg73.0000°,Azm184.0000°; N 1.1310,Plg10.0000°,Azm307.0000° ; P -4.0210,Plg14.0000°,Azm40.0000° M_o3.45700×10^{16}
NEIC Event type se.
ISC II 21 18 23 24.2–1.4 6.6S–.20 150.5E–.20 33 3.8b 12 4-149
IDC II 21 18 23 19.3–1.5 6.56S 150.47E 0 3.9,3.8 **¶17192648**
ISCJB II 21 18 23 22.7–1.1 6.6S–.10 150.4E–.20 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 24 10 42 30.8–1.7 6.4S–.30 149.5E–.40 49 3.6b 8 4-152
IDC II 24 10 42 22.0–1.9 6.04S 149.58E 0 4.1,4.0 **¶17192784**
ISCJB II 24 10 42 29.2–2.1 6.3S–.20 149.4E–.30 49 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.
IDC II 24 16 49 28.0–8.7 5.89S 150.31E 71–63 3.8,3.6
¶17192797
IDC Error ellipse: s-maj=73.6km s-min=53.5km az=103.0.
IDC II 26 02 48 12.3–3.7 4.74S 152.17E 0 3.8,3.5
¶17192873
IDC Error ellipse: s-maj=157.0km s-min=48.4km az=119.0.
IDC II 26 23 34 38.1–1.6 5.59S 149.20E 392–14 3.9,3.3
¶17192923
IDC Error ellipse: s-maj=65.8km s-min=15.6km az=123.0.
IDC II 27 14 52 19.0–2.8 6.07S 151.82E 0 3.9,3.9s
¶17192955
IDC Error ellipse: s-maj=127.0km s-min=38.1km az=131.0.
IDC III 01 08 37 42.6–3.7 5.70S 150.14E 0 3.6,3.4
¶17193052
IDC Error ellipse: s-maj=149.7km s-min=45.7km az=117.0.
ISC III 01 21 22 57.1–2.4 5.2S–.10 148.6E–.50 35 3.6b 8 4-78
IDC III 01 21 22 50.6–2.5 5.23S 148.95E 0 4.0,3.8 **¶17193098**
ISC Event type ke.
IDC Error ellipse: s-maj=72.8km s-min=21.0km az=99.0.
ISC III 02 13 21 05.5–.68 6.32S–.07 151.09E–.09 36 4.6b,3.0s 58 2-149
IDC III 02 13 21 00.1–.88 6.21S 151.03E 0 4.5,4.4b **¶16193959**
ISCJB III 02 13 21 03.8–.45 6.31S–.06 151.04E–.08 36 4.4b,3.1s
BJI III 02 13 21 05.3 6.44S 150.96E 56 5.1b,5.0s
NEIC III 02 13 21 07.2–.85 6.27S 151.06E 54–7 4.6b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=33.5km s-min=15.3km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=6.0km az=35.3.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=5.1km az=121.0.
ISC III 02 22 30 21.9–.51 5.68S–.06 149.22E–.07 150 4.5b 77 3-147
BJI III 02 22 30 20.4 5.68S 149.11E 150 5.0b,4.4b **¶16193986**
ISCJB III 02 22 30 20.8–.39 5.62S–.04 149.14E–.06 150 4.4b,4.4b
DJA III 02 22 30 21.6–.60 6S–4.0 149E–5.0 150–8 5.4,5.3b
NEIC III 02 22 30 22.5–.72 5.68S 149.27E 159–7 4.9b,5.3b
IDC III 02 22 30 22.6–1.1 5.71S 149.28E 158–7 4.4,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=4.7km az=18.5.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=5.6km az=106.0.
IDC Error ellipse: s-maj=28.4km s-min=8.4km az=107.0.
IDC III 03 01 35 54.7–8.7 4.13S 151.88E 155–58 3.7,3.4
¶17193167
IDC Error ellipse: s-maj=142.5km s-min=55.0km az=117.0.
ISC III 03 16 59 16.0–1.0 6.2S–.20 150.0E–.20 52 3.7b 12 4-148
ISCJB III 03 16 59 14.5–.90 6.2S–.10 149.9E–.20 52 3.6b,3.4s **¶17193200**
IDC III 03 16 59 15.9–5.3 6.22S 150.00E 53–46 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.5km s-min=9.5km az=31.1.
IDC Error ellipse: s-maj=43.5km s-min=26.5km az=107.0.
ISC III 04 13 13 24.7–.50 5.85S–.07 151.04E–.09 43 4.4b,3.6s 43 5-156
BJI III 04 13 13 18.0 6.40S 151.91E 54 5.0b,4.8s **¶16245312**
ISCJB III 04 13 13 22.8–.40 5.82S–.06 151.06E–.07 43 4.4b,3.8s
IDC III 04 13 13 24.8–1.8 5.81S 151.03E 44–16 4.4,4.3
NEIC III 04 13 13 25.9–1.5 5.82S 151.03E 58–14 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.4km az=33.5.
IDC Error ellipse: s-maj=20.9km s-min=12.7km az=126.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.4km az=143.0.
ISC III 05 07 24 28.2–.58 6.31S–.05 151.98E–.07 48–3 4.6b,3.5s 100 2-157
ISCJB III 05 07 24 27.9–1.0 6.33S–.04 151.87E–.07 57–8 4.6b,3.7s **¶16245331**
BJI III 05 07 24 27.2 6.80S 151.55E 56 5.1b,5.0s
NEIC III 05 07 24 28.5–.92 6.23S 151.81E 48–8 4.7b,5.0s
IDC III 05 07 24 28.8–.66 6.25S 151.85E 54–4 4.4,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=5.9km az=23.8.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=5.1km az=116.0.
IDC Error ellipse: s-maj=18.8km s-min=9.9km az=122.0.
IDC III 05 08 26 51.7–7.3 5.76S 150.03E 110–53 3.6,3.3
¶17193273
IDC Error ellipse: s-maj=75.6km s-min=32.4km az=89.0.
ISC III 05 18 40 36.3–.52 5.56S–.04 151.94E–.05 51–3 4.7b,3.7s 180 1-157
IDC III 05 18 40 29.1–.66 5.43S 151.93E 0 4.7,4.5 **¶16196691**
BJI III 05 18 40 32.8 5.91S 151.89E 56 5.0b,4.7b
ISCJB III 05 18 40 33.6–.93 5.48S–.05 151.86E–.05 38–8 4.6b,3.7s
MOS III 05 18 40 33.8–.97 5.39S 151.84E 38 5.0b,3.7s
NEIC III 05 18 40 35.9–.69 5.44S 151.81E 45–6 4.8b,3.7s
DJA III 05 18 40 43.3–1.4 6S–5.0 152E–8.0 98–11 5.1b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 07 05 28 40.4–1.2 6.2S–.30 151.3E–.30 43 3.8b 9 5-149
ISCJB III 07 05 28 39.2–1.3 6.1S–.30 151.2E–.30 43 3.8b,2.8s **¶17193396**
IDC III 07 05 28 45.0–5.4 6.19S 151.19E 82–47 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=58.1km s-min=11.1km az=42.2.
IDC Error ellipse: s-maj=47.4km s-min=27.0km az=121.0.
IDC III 08 08 39 53.7–4.2 5.17S 150.67E 0 3.2,3.0
¶17193462
IDC Error ellipse: s-maj=165.5km s-min=53.9km az=115.0.
IDC III 08 18 53 23.0–1.5 6.00S 149.65E 0 3.8,3.7
¶17193485
IDC Error ellipse: s-maj=79.2km s-min=22.1km az=115.0.
ISC III 09 21 24 52.1–.32 6.12S–.03 149.79E–.03 51–2 6.4s,5.8b 569 3-155
ISCJB III 09 21 24 49.0–1.1 6.00S–.02 149.72E–.02 33–7 6.4s,5.7b **¶602442187**
NEIC III 09 21 24 49.8–.17 5.99S 149.78E 29 6.5s,6.4W
GCMT III 09 21 24 49.8–.10 6.26S 149.75E 51–0 6.3W,6.4W
BJI III 09 21 24 49.1 5.95S 149.65E 30 6.5s,6.4b
MOS III 09 21 24 50.7–.98 6.00S 149.71E 47 6.2s,6.0b
NEIC III 09 21 24 51.0–.00 6.02S 149.66E 29 6.2s,6.0b
IDC III 09 21 24 51.7–.56 6.13S 150.14E 53–5 6.0s,6.0
DJA III 09 21 24 58.5–.60 6S–3.0 150E–4.0 92–5 6.6,6.3b
ISC Event type se.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Kimbe. Depth from synthetics of broadband displacement seismograms.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c207; s131,c468;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}3.75±.04 $M_{\theta\theta}$-3.96±.02; $M_{\phi\phi}$0.20±.03; $M_{r\theta}$0.39±.02; $M_{\theta\phi}$-0.28±.02; $M_{\phi r}$-0.21±.03; Best double couple: NP1:ϕ_s90.00000°,δ48.00000°,λ95.00000°. NP2:ϕ_s262.00000° ,δ42.00000°,λ84.00000°. Principal axes: T 3.7840,Plg85.0000°,Azm50.0000° ; N 0.2060,Plg4.0000°,Azm266.0000°; P -3.9970,Plg3.0000°,Azm176.0000° M_o3.89000×10^{18}
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{18}Nm; M_{rr}4.30 $M_{\theta\theta}$-4.00 $M_{\phi\phi}$-0.30 $M_{r\theta}$3.30 $M_{\theta\phi}$-0.50 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s81.00000° ,δ64.00000°,λ89.00000°. NP2:ϕ_s264.00000°,δ26.00000°,λ93.00000°. Principal axes: T 5.5000,Plg70.0000°,Azm347.0000°; N -0.3000,Plg1.0000°,Azm81.0000° ; P -5.2000,Plg19.0000°,Azm171.0000° M_o5.00000×10^{18}
IDC III 09 22 25 17.7–4.2 6.18S 149.74E 0 3.4,3.2
¶17193584
IDC Error ellipse: s-maj=158.9km s-min=50.3km az=115.0.
IDC III 10 00 44 14.4–2.2 4.69S 152.83E 0 4.2,4.1
¶17193594
IDC Error ellipse: s-maj=67.0km s-min=34.9km az=125.0.
ISC III 10 14 24 46.5–.40 5.71S–.05 150.53E–.06 114 4.5b 108 2-148
BJI III 10 14 24 41.3 6.07S 150.75E 110 5.1b,4.9b **¶16304927**
ISCJB III 10 14 24 44.9–.28 5.67S–.03 150.50E–.05 114 4.5b,4.9b
IDC III 10 14 24 46.7–1.6 5.66S 150.39E 109–12 4.5,4.3
NEIC III 10 14 24 46.4–.73 5.66S 150.56E 116–7 4.6b,4.3
DJA III 10 14 24 49.7–1.1 5S–4.0 150E–5.0 193–12 5.0b,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 12 04 18 21.1–.86 5.8S–.10 150.8E–.20 50 4.7b 20 5-152
IDC III 12 04 18 14.3–1.7 5.89S 151.18E 0 4.8,4.7 **¶16452016**
ISCJB III 12 04 18 19.6–.79 5.8S–.10 150.8E–.20 50 4.7b,4.7
NEIC III 12 04 18 21.8–2.5 5.80S 150.79E 54–21 4.7b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=56.6km s-min=33.0km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=30.0km s-min=9.3km az=36.5.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=17.7km az=117.0.
IDC III 12 04 22 54.7–4.2 5.35S 150.04E 0 3.7,3.5
¶17194251
IDC Error ellipse: s-maj=171.3km s-min=50.9km az=117.0.
IDC III 12 08 14 27.7–4.7 5.87S 149.38E 98–43 4.2,4.0
¶17194319
IDC Error ellipse: s-maj=86.5km s-min=31.1km az=131.0.
ISC III 12 10 41 02.9–1.3 6.0S–.20 150.9E–.20 43 4.3b 14 5-149
IDC III 12 10 40 56.2–1.4 5.98S 151.15E 0 4.6,4.5 **¶16404899**
NEIC III 12 10 41 01.9–.86 5.95S 150.96E 35 4.4b,4.5
ISCJB III 12 10 41 01.2–1.1 5.9S–.10 150.8E–.20 43 4.2b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 12 20 03 21.2–3.5 6.14S 148.65E 0 3.6,3.5
¶17194576
IDC Error ellipse: s-maj=92.2km s-min=40.8km az=108.0.
IDC III 13 03 25 24.4–6.9 6.00S 153.67E 0 3.6,3.4
¶17194693
IDC Error ellipse: s-maj=469.7km s-min=49.8km az=122.0.
IDC III 13 07 31 23.2–3.5 7.07S 152.23E 0 3.5,3.3
¶17194784
IDC Error ellipse: s-maj=160.5km s-min=47.4km az=124.0.
IDC III 13 10 19 10.2–3.3 5.95S 149.97E 0 4.3,4.1
¶17194837
IDC Error ellipse: s-maj=127.2km s-min=38.7km az=117.0.
IDC III 14 11 00 22.3–3.4 5.54S 150.85E 0 3.5,3.4
¶17195135
IDC Error ellipse: s-maj=144.7km s-min=40.7km az=119.0.
IDC III 15 07 47 34.3–3.6 5.77S 150.23E 0 3.6,3.4
¶17196076
IDC Error ellipse: s-maj=147.4km s-min=41.2km az=118.0.
ISC III 15 16 02 01.3–.49 5.02S–.05 152.07E–.07 103–3 4.6b 114 1-157

NEIC III 15 16 02 00.7–.31 5.05S 152.04E 98 4.8b ¶16327701
IDC III 15 16 02 00.5–.62 5.01S 152.05E 96–4 4.6,4.4
ISCJB III 15 16 02 01.1–.85 5.03S–.05 152.01E–.06 112–6 4.7b,4.4
BJI III 15 16 02 01.9 4.48S 152.27E 112 5.2b,4.9b
DJA III 15 16 02 07.5–1.7 5S–7.0 152E–12 135–12 5.5,5.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 16 18 04 59.2–1.1 5.2S–.10 150.4E–.30 300 3.6b 15 5-148
ISCJB III 16 18 04 57.4–.95 5.2S–.10 150.5E–.20 300 3.6b ¶17196501
IDC III 16 18 04 59.0–1.5 5.12S 150.27E 294–12 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.4km s-min=9.5km az=23.9.
IDC Error ellipse: s-maj=37.4km s-min=9.9km az=114.0.
ISC III 18 23 20 39.3–.72 4.9S–.10 152.8E–.10 43 3.9b 16 7-150
IDC III 18 23 20 33.3–1.7 4.79S 152.84E 0 4.1,3.9 ¶16479049
ISCJB III 18 23 20 37.4–.60 4.84S–.08 152.8E–.10 43 3.9b,3.9
NEIC III 18 23 20 38.7–.37 4.81S 152.80E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=59.8km s-min=20.8km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=11.1km az=25.4.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.2km az=115.0.
ISC III 19 16 11 58.6–.40 6.13S–.03 149.52E–.04 54–2 4.9b,4.4s 331 3-155
BJI III 19 16 11 54.3 6.29S 149.89E 59 5.2b,4.9b ¶16339150
ISCJB III 19 16 11 56.3–.70 6.09S–.03 149.52E–.03 52–6 5.0b,4.5s
MOS III 19 16 11 57.3–1.2 6.05S 149.48E 59 5.1b,4.2s
GCMT III 19 16 11 59.8–.20 6.34S 149.46E 48–0 5.3W,4.2s
IDC III 19 16 11 59.1–1.3 6.05S 149.40E 60–11 4.8,4.6
NEIC III 19 16 11 59.9–.75 6.09S 149.44E 72–7 5.3b,4.6
DJA III 19 16 12 07.6–1.1 6S–6.0 149E–8.0 100–7 5.6,5.4b
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c164; s91,c147;Duration: 1ŧ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.02 $M_{\theta\theta}$-1.06±.01; $M_{\phi\phi}$0.26±.02; $M_{r\theta}$0.17±.02; $M_{\theta\phi}$-0.06±.02; $M_{\phi r}$-0.11±.02; Best double couple: NP1:ϕ_s98.00000°,δ51.00000°,λ104.00000°. NP2:ϕ_s256.00000°,δ41.00000°,λ73.00000°. Principal axes: T 0.8380,Plg78.0000°,Azm64.0000° ; N 0.2420,Plg11.0000°,Azm269.0000°; P -1.0760,Plg5.0000°,Azm178.0000° $M_0$0.95700×10^{17}
NEIC Event type se.
ISC III 21 00 03 49.1–.75 4.5S–.10 152.8E–.10 58 3.9b 15 7-151
ISCJB III 21 00 03 47.2–.77 4.5S–.10 152.8E–.10 58 4.0b ¶17197585
IDC III 21 00 03 50.0–3.6 4.53S 152.69E 66–32 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=13.7km az=36.6.
IDC Error ellipse: s-maj=25.7km s-min=20.1km az=86.0.
ISC III 22 14 18 05.9–1.9 6.1S–.20 149.8E–.40 58 3.5b 10 4-148
ISCJB III 22 14 18 04.5–1.5 6.1S–.10 149.8E–.30 58 3.6b ¶17198015
IDC III 22 14 18 06.8–6.8 6.14S 149.74E 63–51 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=45.9km s-min=11.3km az=23.5.
IDC Error ellipse: s-maj=68.3km s-min=30.9km az=98.0.
ISC III 24 01 35 12.8–1.5 5.3S–.30 152.3E–.30 40 3.8b 11 7-150
IDC III 24 01 35 06.1–1.5 5.28S 152.56E 0 4.0,3.9 ¶17198266
ISCJB III 24 01 35 11.1–1.4 5.3S–.20 152.4E–.30 40 4.1s,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC III 24 12 52 23.7–4.2 5.61S 149.43E 0 3.3,3.1
¶17198351
IDC Error ellipse: s-maj=153.3km s-min=44.1km az=111.0.
IDC III 25 18 42 44.6–1.5 4.42S 151.99E 0 4.3,4.0
¶17198542
IDC Error ellipse: s-maj=101.4km s-min=18.9km az=129.0.
ISC III 27 04 39 45.5–1.2 6.8S–.20 150.9E–.20 40 4.3b 15 5-149
ISCJB III 27 04 39 43.8–.78 6.8S–.10 150.9E–.10 40 4.1b ¶16481137
IDC III 27 04 39 44.3–4.1 6.86S 150.94E 28–27 4.4,4.3
NEIC III 27 04 39 47.7–2.3 6.86S 150.83E 59–20 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=27.4km s-min=9.2km az=44.6.
IDC Error ellipse: s-maj=51.2km s-min=16.1km az=126.0.
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=13.8km az=123.0.
IDC III 29 03 46 01.3–4.5 4.45S 151.53E 0 3.9,3.6
¶17199021
IDC Error ellipse: s-maj=215.2km s-min=47.1km az=117.0.
IDC III 29 12 05 21.5–1.8 4.88S 152.40E 0 3.9,3.6
¶17199066
IDC Error ellipse: s-maj=132.9km s-min=23.0km az=129.0.
IDC III 29 12 07 13.7–2.0 5.39S 152.89E 0 4.1,3.8
¶17199067
IDC Error ellipse: s-maj=150.2km s-min=24.0km az=131.0.
IDC III 29 14 53 09.6–8.8 5.84S 150.67E 60–64 3.7,3.7
¶17199074
IDC Error ellipse: s-maj=105.9km s-min=55.9km az=128.0.
ISC III 30 03 04 38.2–.68 6.0S–.10 153.5E–.10 32 4.3b,3.6s 34 7-151
IDC III 30 03 04 33.5–.82 5.96S 153.50E 0 4.4,4.2 ¶16475765
ISCJB III 30 03 04 35.7–.63 6.08S–.07 153.6E–.10 32 4.3b,3.8s
NEIC III 30 03 04 38.8–.51 6.03S 153.47E 35 4.3b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=15.2km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=8.2km az=25.8.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=8.7km az=110.0.
IDC IV 01 06 44 32.2–3.7 6.26S 148.41E 0 3.6,3.4
¶17199391
IDC Error ellipse: s-maj=123.9km s-min=34.4km az=106.0.
IDC IV 01 21 37 52.4–3.6 4.36S 151.79E 0 3.4,3.1
¶17199460
IDC Error ellipse: s-maj=153.7km s-min=50.2km az=121.0.
IDC IV 02 03 20 51.7–5.8 6.10S 149.13E 68–57 3.6,3.6
¶17199491
IDC Error ellipse: s-maj=114.9km s-min=34.5km az=129.0.
IDC IV 06 08 09 11.0–1.6 4.82S 152.31E 0 4.1,3.8
¶17199985
IDC Error ellipse: s-maj=118.0km s-min=22.6km az=131.0.
IDC IV 09 01 45 48.1–5.5 5.22S 152.55E 65–47 4.0,3.9
¶17200300
IDC Error ellipse: s-maj=53.6km s-min=28.0km az=131.0.
IDC IV 09 11 20 37.8–8.9 5.94S 149.11E 40–74 3.7,3.6
¶17200328
IDC Error ellipse: s-maj=134.0km s-min=51.1km az=118.0.
ISC IV 11 10 28 24.8–1.9 5.3S–.30 151.6E–.40 45 3.7b 8 6-149
IDC IV 11 10 28 17.8–1.9 5.28S 151.78E 0 4.1,3.9 ¶17200585
ISC Event type ke.
IDC Error ellipse: s-maj=73.9km s-min=22.7km az=122.0.
IDC IV 11 22 19 14.9–4.3 5.74S 149.29E 0 3.5,3.2
¶17200696
IDC Error ellipse: s-maj=149.3km s-min=54.7km az=113.0.
ISC IV 13 04 18 33.6–.35 5.24S–.05 151.47E–.06 129 4.8b 220 1-149
BJI IV 13 04 18 28.2 5.33S 151.73E 109 4.9b,4.9b ¶16427694
NEIC IV 13 04 18 32.0–.70 5.23S 151.46E 115–6 4.9b,4.9b
ISCJB IV 13 04 18 32.4–.21 5.28S–.03 151.39E–.04 129 4.6b,4.9b
IDC IV 13 04 18 32.2–1.7 5.26S 151.48E 118–14 4.8,4.5
MOS IV 13 04 18 32.2–.99 5.22S 151.38E 128 4.7b,4.5
DJA IV 13 04 18 37.3–1.0 5S–5.0 151E–8.0 144–8 5.7,5.5b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 13 06 15 50.8–.68 6.3S–.10 151.3E–.10 36 4.3b 19 5-151
ISCJB IV 13 06 15 49.2–.57 6.30S–.10 151.3E–.10 36 4.3b ¶16587487
IDC IV 13 06 15 54.0–3.9 6.33S 151.23E 65–34 4.4,4.2
NEIC IV 13 06 15 53.7–1.8 6.37S 151.27E 62–15 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=8.5km az=43.1.
IDC Error ellipse: s-maj=25.3km s-min=20.6km az=115.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=12.6km az=112.0.
IDC IV 14 10 24 23.2–4.2 6.69S 149.74E 0 3.2,3.2L
¶17201010
IDC Error ellipse: s-maj=176.3km s-min=49.2km az=118.0.
ISC IV 14 12 57 23.7–.80 6.50S–.06 148.1E–.10 51 4.0b,3.8s 38 3-146
DJA IV 14 12 57 15.1–1.9 6S–4.0 149E–16 44–10 4.8,4.7 ¶16587512
ISCJB IV 14 12 57 21.6–.63 6.57S–.06 148.13E–.08 51 4.2b,3.7s
IDC IV 14 12 57 24.9–2.4 6.60S 147.94E 56–21 4.0,3.9
NEIC IV 14 12 57 26.0–.96 6.61S 147.88E 68–10 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=176.8.
IDC Error ellipse: s-maj=25.5km s-min=11.3km az=103.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.4km az=88.0.
ISC IV 15 08 54 10.5–.36 6.11S–.05 153.80E–.05 10 4.7b 98 3-152
ISCJB IV 15 08 54 08.6–.25 6.11S–.04 153.80E–.04 10 4.6b,3.9s ¶16440443
IDC IV 15 08 54 08.6–.60 6.09S 153.90E 0 4.4,4.3
NEIC IV 15 08 54 10.4–.20 6.11S 153.78E 10 4.8b,4.3
BJI IV 15 08 54 11.3 5.44S 153.86E 10 5.0b,4.9s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.4km az=25.9.
IDC Error ellipse: s-maj=19.8km s-min=13.3km az=98.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.3km az=110.0.
ISC IV 15 09 05 04.8–.51 5.73S–.04 151.11E–.05 43–4 4.8b,4.1s 213 2-149
BJI IV 15 09 04 59.5 6.01S 151.54E 35 5.0b,4.9b ¶16440444
MOS IV 15 09 05 02.2–1.1 5.66S 151.07E 33 4.8b,4.9b
IDC IV 15 09 05 04.6–1.4 5.74S 151.16E 43–13 4.6,4.5
ISCJB IV 15 09 05 04.4–.90 5.77S–.03 151.14E–.03 55–8 4.7b,4.0s
GCMT IV 15 09 05 05.8–.30 5.90S 151.07E 40–0 5.0W,4.0s
NEIC IV 15 09 05 05.8–.73 5.75S 151.13E 54–7 4.9b,4.0s
DJA IV 15 09 05 20.3–.70 6S–4.0 151E–5.0 121–6 5.5b,5.4
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c46; s70,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.27±.22 $M_{\theta\theta}$-1.05±.16; $M_{\phi\phi}$-2.22±.17; $M_{r\theta}$-1.55±.11; $M_{\theta\phi}$2.28±.09; $M_{\phi r}$-0.53±.12; Best double couple: NP1:ϕ_s299.00000°,δ54.00000°,λ59.00000°. NP2:ϕ_s165.00000°,δ46.00000°,λ126.00000°. Principal axes: T 4.0290,Plg65.0000°,Azm150.0000°; N 0.0020,Plg25.0000°,Azm319.0000° ; P -4.0310,Plg4.0000°,Azm51.0000° $M_0$4.03000×10^{16}
NEIC Event type se.
IDC IV 15 09 43 15.3–6.7 5.37S 151.49E 202–43 3.3,2.9
¶17201118
IDC Error ellipse: s-maj=123.6km s-min=45.4km az=120.0.
IDC IV 15 17 21 36.8–6.1 4.63S 151.60E 90–46 3.8,3.6
¶17201151
IDC Error ellipse: s-maj=98.1km s-min=38.9km az=130.0.
ISC IV 15 23 54 47.6–2.3 5.4S–.70 152.1E–.70 40 3.6b 7 6-150
IDC IV 15 23 54 41.2–2.2 5.35S 152.34E 0 3.9,3.7 ¶17201179
ISC Event type ke.
IDC Error ellipse: s-maj=135.6km s-min=24.4km az=130.0.
ISC IV 17 20 25 09.8–2.3 6.2S–.30 153.8E–.30 35 4.0b 12 7-152
IDC IV 17 20 25 04.5–2.2 6.12S 153.91E 0 4.0,4.0b ¶17201354
ISCJB IV 17 20 25 08.1–2.3 6.2S–.30 153.7E–.30 35 3.9b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 23 23 36.6–.34 6.53S–.05 153.55E–.05 29 4.8s,4.7b 134 3-152
ISCJB IV 17 23 23 34.8–.24 6.53S–.04 153.54E–.04 29 4.7b,4.0s ¶16532037
MOS IV 17 23 23 35.9–.85 6.51S 153.53E 40 4.7b,4.0s
BJI IV 17 23 23 35.7 6.50S 153.50E 38 5.0s,4.9b
NEIC IV 17 23 23 38.2–.72 6.52S 153.51E 44–7 4.7b,4.9b
IDC IV 17 23 23 39.1–3.8 6.56S 153.50E 52–33 4.3,4.2
DJA IV 17 23 23 44.1–1.9 6S–7.0 153E–8.0 46–16 5.6b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 18 14 35 32.8–1.9 5.61S 150.63E 0 4.0,3.8
¶17201417
IDC Error ellipse: s-maj=102.8km s-min=22.9km az=128.0.
IDC IV 18 16 54 23.3–3.7 4.00S 151.95E 0 3.2,3.0
¶17201429
IDC Error ellipse: s-maj=174.3km s-min=44.9km az=119.0.
ISC IV 18 20 48 46.9–1.1 5.7S–.20 152.7E–.20 40 4.1b 17 7-150
IDC IV 18 20 48 41.1–1.1 5.67S 152.68E 0 4.1,4.0 ¶16587536
ISCJB IV 18 20 48 45.4–.90 5.7S–.10 152.6E–.20 40 4.1b,3.0s
NEIC IV 18 20 48 49.9–3.0 5.77S 152.50E 65–24 4.4b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=39.0km s-min=17.0km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=27.1km s-min=9.3km az=38.7.
NEIC Event type se. Error ellipse: s-maj=29.5km s-min=16.8km az=107.0.
IDC IV 19 15 57 21.6–8.4 5.40S 150.95E 79–59 4.0,3.8
¶17201519
IDC Error ellipse: s-maj=103.5km s-min=56.5km az=124.0.
IDC IV 19 16 57 42.6–8.2 6.51S 149.22E 75–55 3.6,3.5
¶17201522
IDC Error ellipse: s-maj=59.5km s-min=48.7km az=13.0.
IDC IV 19 17 57 35.6–3.1 6.46S 148.17E 0 3.7,3.5
¶17201529
IDC Error ellipse: s-maj=92.9km s-min=32.8km az=104.0.
ISC IV 20 13 55 29.1–.51 5.72S–.06 149.54E–.08 147 4.2b 55 3-150
ISCJB IV 20 13 55 27.6–.33 5.66S–.05 149.51E–.07 147 4.1b ¶16450792
BJI IV 20 13 55 27.0 5.69S 149.67E 147 4.9b,4.5b
IDC IV 20 13 55 28.2–1.8 5.72S 149.52E 134–15 4.3,4.0
NEIC IV 20 13 55 28.9–.77 5.62S 149.56E 146–7 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=5.5km az=22.8.
IDC Error ellipse: s-maj=21.5km s-min=11.5km az=101.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.2km az=112.0.
ISC IV 21 09 49 39.4–.46 5.58S–.05 151.94E–.08 45 4.4b,3.6s 66 1-150
IDC IV 21 09 49 32.8–.58 5.45S 151.86E 0 4.6,4.4b ¶16451849
BJI IV 21 09 49 35.9 5.84S 152.56E 62 4.8b,4.8b
ISCJB IV 21 09 49 37.8–.30 5.57S–.04 151.90E–.06 45 4.5b,3.8s
NEIC IV 21 09 49 40.3–.78 5.51S 151.90E 53–7 4.6b,3.8s
DJA IV 21 09 49 40.0–5.1 5S–31 152E–24 80–25 5.1b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 22 11 32 06.4–5.9 6.03S 150.68E 65–51 3.8,3.8s
¶17201809
IDC Error ellipse: s-maj=67.0km s-min=32.1km az=122.0.
IDC IV 22 19 28 02.6–4.3 5.38S 150.36E 0 3.8,3.7
¶17201832
IDC Error ellipse: s-maj=68.1km s-min=60.8km az=121.0.
IDC IV 25 07 18 25.2–7.1 6.21S 149.49E 62–51 3.9,3.8
¶17202025
IDC Error ellipse: s-maj=61.8km s-min=47.7km az=124.0.
IDC IV 25 10 55 00.2–7.6 6.34S 148.67E 76–61 3.8s,3.8
¶17202042
IDC Error ellipse: s-maj=94.5km s-min=52.4km az=121.0.
IDC IV 25 11 24 00.1–7.7 6.33S 149.13E 50–63 3.6L,3.5
¶17202047
IDC Error ellipse: s-maj=103.3km s-min=54.9km az=125.0.
ISC IV 26 12 08 24.4–1.4 6.1S–.30 152.2E–.30 36 3.5b 8 6-150
ISCJB IV 26 12 08 23.1–1.3 6.1S–.30 152.1E–.20 36 3.5b ¶17202130
IDC IV 26 12 08 27.1–6.4 6.01S 151.99E 57–52 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.4km s-min=14.1km az=142.4.
IDC Error ellipse: s-maj=55.5km s-min=32.6km az=120.0.
ISC IV 26 17 54 18.8–1.9 5.2S–.30 151.6E–.40 129 3.6b 10 6-149
ISCJB IV 26 17 54 18.2–1.7 5.1S–.20 151.5E–.30 129 3.4b ¶17202173
IDC IV 26 17 54 18.6–4.7 5.20S 151.63E 126–37 3.8,3.5

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=57.5km s-min=10.8km az=32.5.
IDC Error ellipse: s-maj=56.4km s-min=24.3km az=116.0.
IDC IV 26 20 09 15.1–7.2 5.49S 149.96E 72–53 3.4,3.3
¶17202183

IDC Error ellipse: s-maj=99.7km s-min=37.6km az=108.0.
IDC IV 27 13 43 40.0–8.1 7.04S 150.16E 51–60 3.6,3.5
¶17202238

IDC Error ellipse: s-maj=52.4km s-min=50.1km az=115.0.
IDC V 01 00 49 31.8–5.8 4.92S 151.98E 0 3.3,3.2
¶17202487

IDC Error ellipse: s-maj=178.8km s-min=35.4km az=106.0.
ISC V 01 08 03 08.1–.71 4.1S–.10 152.8E–.10 35 4.2b,3.2s 23 8-150
IDC V 01 08 03 02.9–.74 4.14S 152.77E 0 4.3,4.1b ¶16587555
ISCJB V 01 08 03 06.5–.62 4.09S–.10 152.7E–.10 35 4.2b,3.1s
NEIC V 01 08 03 08.2–.39 4.16S 152.73E 35 4.8b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=33.8km s-min=18.9km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=9.7km az=43.7.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.5km az=134.0.
ISC V 01 13 03 23.5–1.3 7.1S–.20 150.4E–.20 26 3.8b 14 4-149
ISCJB V 01 13 03 21.8–.94 7.1S–.10 150.3E–.20 26 3.8b,3.2s ¶17202522
IDC V 01 13 03 25.4–1.2 7.12S 150.23E 37–6 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.6km s-min=9.5km az=38.0.
IDC Error ellipse: s-maj=39.7km s-min=15.3km az=116.0.
IDC V 01 21 19 51.6–7.6 4.79S 151.91E 0 4.2,4.1
¶17202562

IDC Error ellipse: s-maj=121.9km s-min=72.8km az=33.0.
ISC V 02 10 59 06.9–.41 5.49S–.05 149.23E–.06 261–4 4.5b 127 4-147
ISCJB V 02 10 59 05.6–.78 5.46S–.03 149.22E–.05 263–7 4.4b ¶16708596
NEIC V 02 10 59 07.3–.58 5.46S 149.24E 268–6 4.8b
GCMT V 02 10 59 07.3–.40 5.60S 149.13E 255–3 5.0W
IDC V 02 10 59 07.1–.41 5.49S 149.22E 262–3 4.8,4.3
DJA V 02 10 59 07.4–1.4 5S–10 149E–13 254–8 5.7,5.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c44; s67,c83;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.59±.17 $M_{\theta\theta}$-0.72±.17; $M_{\phi\phi}$4.31±.18; $M_{r\theta}$1.35±.16; $M_{\theta\phi}$-0.98±.15; $M_{\phi r}$0.80±.17; Best double couple: NP1:ϕ_s191.00000°,δ53.00000°,λ-60.00000°. NP2:ϕ_s327.00000°,δ46.00000°,λ-124.00000°. Principal axes: T 4.5310,Plg4.0000°,Azm260.0000°; N -0.2610,Plg23.0000°,Azm352.0000°; P -4.2690,Plg66.0000°,Azm161.0000° $M_0$4.40000×10^{16}
IDC V 03 15 41 06.1–7.2 6.49S 148.52E 110–57 3.2,3.0
¶17202692

IDC Error ellipse: s-maj=137.6km s-min=58.7km az=119.0.
ISC V 04 05 07 07.6–.99 6.6S–.10 148.1E–.30 51 4.1b,4.0s 17 3-153
IDC V 04 05 07 00.5–.96 6.49S 148.12E 0 4.3,4.3L ¶16708760
ISCJB V 04 05 07 06.0–.88 6.55S–.07 148.0E–.20 51 4.3b,4.0s
NEIC V 04 05 07 07.4–2.0 6.58S 148.04E 48–17 4.0b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=40.1km s-min=16.0km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=28.5km s-min=8.6km az=12.2.
NEIC Event type se. Error ellipse: s-maj=25.1km s-min=14.7km az=103.0.
ISC V 04 13 34 26.4–.52 5.41S–.07 151.88E–.09 45 4.5b,3.7s 67 1-150
ISCJB V 04 13 34 25.1–.39 5.38S–.05 151.76E–.07 45 4.4b,3.8s ¶16497666
NEIC V 04 13 34 28.9–.79 5.36S 151.73E 67–7 4.5b,3.8s
IDC V 04 13 34 29.3–3.9 5.37S 151.71E 68–33 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=5.9km az=30.1.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.5km az=113.0.
IDC Error ellipse: s-maj=25.2km s-min=15.2km az=98.0.
IDC V 04 14 24 17.9–1.9 5.81S 151.95E 0 4.3,4.1
¶17202763

IDC Error ellipse: s-maj=102.5km s-min=23.3km az=133.0.
IDC V 05 02 33 44.5–2.0 5.37S 151.29E 0 4.1,3.9
¶17202809

IDC Error ellipse: s-maj=118.5km s-min=25.4km az=128.0.
ISC V 06 22 34 59.1–.43 7.45S–.06 153.46E–.06 35 4.7b,3.7s 83 3-127
IDC V 06 22 34 52.6–.78 7.41S 153.57E 0 4.5,4.3L ¶16578036
ISCJB V 06 22 34 57.1–.30 7.45S–.04 153.44E–.05 33 4.7b,3.6s
NEIC V 06 22 34 60.0–.85 7.46S 153.40E 44–8 4.8b,3.6s
DJA V 06 22 35 04.7–2.7 8S–10 153E–18 66–18 5.3b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 07 21 39 19.4–5.6 5.48S 151.75E 69–49 4.0,3.9
¶17203005

IDC Error ellipse: s-maj=55.6km s-min=27.3km az=121.0.
IDC V 08 05 49 19.9–8.4 5.53S 151.14E 48–61 3.7,3.6
¶17203028

IDC Error ellipse: s-maj=64.0km s-min=53.5km az=87.0.
IDC V 08 18 20 01.1–3.3 4.21S 152.60E 0 3.9,3.7
¶17203064

IDC Error ellipse: s-maj=116.7km s-min=47.2km az=122.0.
IDC V 09 03 56 01.0–3.6 5.90S 150.06E 0 3.5,3.3
¶17203103

IDC Error ellipse: s-maj=152.1km s-min=27.2km az=116.0.
ISC V 11 15 24 50.7–.85 6.44S–.08 148.1E–.20 51 4.2b 22 3-146
ISCJB V 11 15 24 48.9–.80 6.50S–.07 148.0E–.20 51 4.1b ¶16577277
NEIC V 11 15 24 50.4–2.3 6.48S 147.99E 47–20 4.4b
IDC V 11 15 24 51.5–4.2 6.53S 147.93E 52–37 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.7km s-min=9.7km az=10.6.
NEIC Event type se. Error ellipse: s-maj=21.3km s-min=12.9km az=94.0.
IDC Error ellipse: s-maj=42.1km s-min=18.5km az=89.0.
ISC V 11 16 09 33.5–.77 6.57S–.07 148.1E–.20 51 3.9b 27 3-153
IDC V 11 16 09 27.2–.88 6.46S 147.90E 0 4.2,4.1 ¶16577279
ISCJB V 11 16 09 32.1–.71 6.52S–.06 147.9E–.20 51 4.0b,4.1
NEIC V 11 16 09 32.4–1.5 6.52S 147.97E 37–14 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=14.6km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=25.0km s-min=7.0km az=10.0.
NEIC Event type se. Error ellipse: s-maj=19.8km s-min=11.2km az=104.0.
ISC V 11 19 32 05.9–.76 6.51S–.09 148.1E–.20 51 3.9b 14 3-146
IDC V 11 19 31 60.0–1.5 6.40S 147.80E 0 4.0,3.9b ¶16709630
NEIC V 11 19 32 06.5–2.4 6.48S 147.75E 50–24 4.3b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=57.1km s-min=18.1km az=113.0.
NEIC Event type se. Error ellipse: s-maj=33.3km s-min=15.8km az=117.0.
IDC V 12 03 51 53.6–6.2 7.28S 149.21E 0 3.5L,3.4
¶17203454

IDC Error ellipse: s-maj=297.3km s-min=51.3km az=119.0.
IDC V 13 02 17 56.9–2.4 5.44S 152.38E 0 4.0,3.8
¶17203518

IDC Error ellipse: s-maj=142.8km s-min=27.7km az=132.0.
ISC V 13 15 05 36.7–1.8 6.2S–.30 153.4E–.30 29 3.4b 9 7-151
IDC V 13 15 05 31.4–2.0 6.30S 153.61E 0 3.7,3.6 ¶17203555
ISCJB V 13 15 05 36.0–1.4 6.2S–.20 153.2E–.20 29 3.3b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 13 22 57 36.8–.86 6.55S–.08 148.0E–.20 51 4.0b,3.9s 20 3-146
IDC V 13 22 57 29.9–.92 6.49S 147.99E 0 4.3,4.1 ¶16577296
ISCJB V 13 22 57 35.5–.71 6.59S–.07 147.9E–.10 51 4.1b,3.9s
NEIC V 13 22 57 36.9–2.0 6.61S 147.98E 50–17 4.4b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=17.0km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=10.2km az=2.2.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=12.5km az=221.0.
IDC V 14 08 40 42.4–2.2 6.47S 148.02E 0 3.9,3.8
¶17203597

IDC Error ellipse: s-maj=58.7km s-min=37.9km az=103.0.
ISC V 14 14 48 02.0–.67 6.56S–.07 148.1E–.10 51 3.9b,3.7s 17 3-151
ISCJB V 14 14 47 59.7–.59 6.61S–.07 148.04E–.10 51 3.9b,3.6s ¶17203616
IDC V 14 14 48 02.0–2.2 6.60S 147.94E 49–21 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=10.0km az=171.5.
IDC Error ellipse: s-maj=25.6km s-min=16.1km az=83.0.
IDC V 14 18 59 31.3–7.0 6.72S 148.09E 82–60 3.7L,3.5
¶17203633

IDC Error ellipse: s-maj=110.5km s-min=53.5km az=115.0.
IDC V 14 20 46 53.8–7.2 6.93S 148.36E 101–56 3.1,2.9
¶17203641

IDC Error ellipse: s-maj=121.5km s-min=60.6km az=118.0.
ISC V 15 21 21 35.5–1.9 6.6S–.30 152.5E–.30 23 4.0b 10 6-84
ISCJB V 15 21 21 34.4–1.4 6.5S–.20 152.3E–.20 23 3.9b ¶17203711
IDC V 15 21 21 39.5–5.9 6.71S 152.58E 63–50 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.2km s-min=10.6km az=44.2.
IDC Error ellipse: s-maj=56.0km s-min=27.7km az=117.0.
IDC V 16 03 01 35.3–3.5 6.08S 148.90E 0 3.8,3.7
¶17203722

IDC Error ellipse: s-maj=100.3km s-min=40.4km az=110.0.
IDC V 16 09 40 11.5–3.5 6.33S 149.96E 0 3.6,3.4
¶17203741

IDC Error ellipse: s-maj=136.1km s-min=38.3km az=121.0.
ISC V 18 04 05 51.7–.35 5.00S–.05 151.46E–.06 129 4.4b 108 1-149
ISCJB V 18 04 05 50.5–.26 4.93S–.04 151.39E–.05 129 4.3b ¶16527345
IDC V 18 04 05 51.8–.82 4.97S 151.44E 130–6 4.5,4.3
NEIC V 18 04 05 52.8–.57 4.95S 151.46E 140–5 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.1km az=29.9.
IDC Error ellipse: s-maj=15.5km s-min=9.7km az=90.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.2km az=107.0.
ISC V 18 07 28 19.1–.65 4.30S–.09 152.54E–.09 58 4.0b 21 7-150
IDC V 18 07 28 11.4–.71 4.23S 152.56E 0 4.8L,4.3 ¶16710165
ISCJB V 18 07 28 17.5–.58 4.34S–.07 152.54E–.06 58 4.1b,3.1s
NEIC V 18 07 28 22.0–1.7 4.41S 152.74E 89–15 4.4b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=18.0km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=8.5km az=1.4.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=12.4km az=158.0.
IDC V 18 08 33 00.5–3.9 6.45S 148.12E 0 3.3,3.2
¶17203866

IDC Error ellipse: s-maj=115.8km s-min=44.5km az=105.0.
ISC V 18 19 02 09.9–.78 6.46S–.07 148.0E–.20 51 3.9b 21 3-146
ISCJB V 18 19 02 08.2–.66 6.51S–.06 147.9E–.10 51 4.2b ¶17203898
IDC V 18 19 02 09.9–2.9 6.52S 147.98E 50–26 4.1,4.1
NEIC V 18 19 02 10.8–1.3 6.54S 147.92E 59–11 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=8.7km az=5.5.
IDC Error ellipse: s-maj=33.9km s-min=15.6km az=93.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=8.1km az=87.0.
ISC V 18 19 30 59.9–.76 6.52S–.07 148.1E–.10 51 4.0s,3.9b 24 3-146
ISCJB V 18 19 30 58.2–.70 6.58S–.07 148.0E–.10 51 4.1b,4.0s ¶16710213
IDC V 18 19 30 59.0–2.6 6.58S 148.11E 44–23 4.1,4.1s
NEIC V 18 19 31 01.1–1.6 6.62S 147.96E 61–13 4.4b,4.1s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=9.8km az=2.9.
IDC Error ellipse: s-maj=27.0km s-min=13.0km az=101.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=9.0km az=86.0.
ISC V 18 20 43 37.3–.77 6.61S–.07 148.0E–.20 51 4.2b 32 3-153
ISCJB V 18 20 43 35.5–.65 6.63S–.06 148.0E–.10 51 4.3b ¶16545170
IDC V 18 20 43 36.7–3.3 6.63S 148.01E 45–30 4.3,4.2
NEIC V 18 20 43 37.6–1.4 6.64S 148.00E 56–12 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=8.0km az=7.5.
IDC Error ellipse: s-maj=33.5km s-min=18.2km az=91.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=9.4km az=94.0.
ISC V 18 20 56 03.1–.56 6.59S–.06 148.07E–.09 51 4.7b,4.0s 63 3-153
ISCJB V 18 20 56 00.8–.45 6.65S–.05 148.21E–.07 51 4.7b,4.1s ¶16710221
IDC V 18 20 56 02.6–2.4 6.72S 148.19E 52–20 4.4,4.3
NEIC V 18 20 56 04.8–.95 6.66S 147.94E 67–9 4.8b,4.3
DJA V 18 20 56 09.9–1.1 7S–6.0 148E–9.0 88–7 5.6b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 18 21 06 15.9–.60 6.62S–.07 148.03E–.10 51 4.5b 35 3-88
ISCJB V 18 21 06 14.2–.48 6.73S–.07 148.04E–.08 51 4.4b ¶16710223
NEIC V 18 21 06 17.1–1.0 6.72S 148.09E 64–10 4.6b
IDC V 18 21 06 18.0–4.6 6.75S 148.05E 68–37 4.1L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.4km az=29.7.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.2km az=122.0.
IDC Error ellipse: s-maj=42.1km s-min=23.8km az=80.0.
IDC V 18 22 46 45.9–2.6 5.67S 149.11E 0 4.3,4.2
¶17203916

IDC Error ellipse: s-maj=66.5km s-min=27.4km az=97.0.
IDC V 18 22 50 55.1–2.1 4.79S 152.48E 0 4.1,3.8
¶17203917

IDC Error ellipse: s-maj=128.0km s-min=26.3km az=130.0.
IDC V 19 01 23 51.8–3.2 6.91S 148.44E 0 3.9,3.8b
¶17203926

IDC Error ellipse: s-maj=101.5km s-min=43.6km az=121.0.
IDC V 19 02 20 34.3–3.4 6.84S 148.46E 0 3.4,3.3L
¶17203930

IDC Error ellipse: s-maj=127.5km s-min=44.4km az=117.0.
IDC V 19 02 40 36.3–7.1 6.80S 148.11E 88–60 3.4,3.3
¶17203931

IDC Error ellipse: s-maj=90.8km s-min=55.5km az=126.0.
IDC V 19 09 28 01.1–2.3 7.76S 150.74E 0 3.8,3.8
¶17203956

IDC Error ellipse: s-maj=136.9km s-min=28.4km az=133.0.
ISC V 20 08 35 39.1–.79 6.53S–.07 148.0E–.20 51 4.2b 33 3-153
IDC V 20 08 35 32.1–1.1 6.56S 148.07E 0 4.3,4.2 ¶16591599
ISCJB V 20 08 35 37.7–.60 6.57S–.05 147.9E–.10 51 4.4b,3.1s
NEIC V 20 08 35 39.4–1.3 6.58S 147.94E 51–12 4.9b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=39.2km s-min=14.1km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=6.8km az=8.7.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.3km az=81.0.
ISC V 20 16 49 50.8–.48 6.57S–.06 148.03E–.08 51 4.4b,4.3s 51 3-153
IDC V 20 16 49 43.5–.66 6.54S 148.15E 0 4.5,4.4 ¶16545175
ISCJB V 20 16 49 48.6–.40 6.61S–.05 148.02E–.07 51 4.5b,4.3s
NEIC V 20 16 49 50.9–.97 6.62S 147.96E 56–9 4.8b,4.3s
DJA V 20 16 49 51.2–2.5 7S–5.0 148E–10 39–18 5.0b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 21 17 18 00.9–3.1 6.27S 151.54E 0 3.5,3.3
¶17204151

IDC Error ellipse: s-maj=123.8km s-min=42.9km az=126.0.
ISC V 21 18 58 23.0–.78 6.5S–.10 150.4E–.10 33 4.1b 29 3-148
IDC V 21 18 58 17.2–1.4 6.63S 150.73E 0 4.4,4.2 ¶16710537
ISCJB V 21 18 58 21.6–.56 6.55S–.07 150.33E–.10 33 4.1b,3.0s
NEIC V 21 18 58 23.1–1.0 6.76S 150.73E 42–11 4.3b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=54.0km s-min=20.7km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=7.1km az=32.2.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.4km az=122.0.
ISC V 22 00 42 56.5–.90 6.57S–.07 148.2E–.20 51 4.4b 24 3-146

IDC V 22 00 42 49.9–3.4 6.36S 147.97E 0 4.0,4.0b ¶16631858
ISCJB V 22 00 42 55.0–.74 6.55S–.06 148.1E–.10 51 4.6b,4.0b
NEIC V 22 00 42 57.3–1.3 6.65S 148.16E 61–13 4.5b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=79.7km s-min=34.4km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=7.3km az=11.5.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=9.1km az=117.0.
IDC V 22 02 06 17.0–3.0 6.52S 148.23E 0 4.2,4.1b
¶17204176
IDC Error ellipse: s-maj=78.4km s-min=32.1km az=105.0.
ISC V 22 09 28 21.2–1.5 6.4S–.20 148.0E–.40 47 4.0b 7 3-146
ISCJB V 22 09 28 19.6–1.5 6.3S–.10 147.9E–.30 47 4.1b,3.2s ¶17204212
IDC V 22 09 28 25.2–5.2 6.77S 148.39E 90–51 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.9km s-min=13.3km az=11.4.
IDC Error ellipse: s-maj=84.8km s-min=32.5km az=136.0.
IDC V 23 03 53 06.0–3.5 5.96S 149.06E 0 3.9,3.8L
¶17204278
IDC Error ellipse: s-maj=99.4km s-min=40.5km az=110.0.
ISC V 23 11 16 53.5–1.6 4.8S–.30 152.7E–.40 55 4.0b 10 7-150
ISCJB V 23 11 16 52.3–1.3 4.8S–.30 152.6E–.30 55 4.0b,3.0s ¶17204296
IDC V 23 11 16 56.4–5.0 4.97S 152.69E 84–42 4.1,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=59.7km s-min=10.7km az=40.4.
IDC Error ellipse: s-maj=59.5km s-min=24.6km az=127.0.
ISC V 24 23 56 37.3–1.1 5.7S–.10 149.2E–.20 150 3.9b 16 4-147
ISCJB V 24 23 56 35.2–1.2 5.8S–.10 149.4E–.30 150 3.9b ¶17204415
IDC V 24 23 56 36.6–1.6 5.78S 149.27E 145–12 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.9km s-min=10.0km az=21.1.
IDC Error ellipse: s-maj=38.0km s-min=10.3km az=117.0.
IDC V 25 10 36 44.2–3.4 6.71S 149.74E 0 3.5,3.5L
¶17204444
IDC Error ellipse: s-maj=139.0km s-min=36.4km az=122.0.
ISC V 25 11 41 11.7–.45 6.68S–.05 148.05E–.06 51 4.2b,3.5s 51 3-146
IDC V 25 11 41 04.8–.81 6.57S 147.99E 0 4.3,4.2 ¶16577319
ISCJB V 25 11 41 10.0–.43 6.67S–.04 147.90E–.09 51 4.4b,3.5s
NEIC V 25 11 41 14.2–.64 6.70S 147.85E 73–6 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=34.6km s-min=13.9km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=5.9km az=12.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.8km az=107.0.
IDC V 26 10 36 01.5–7.8 4.97S 151.73E 92–54 3.6,3.5
¶17204500
IDC Error ellipse: s-maj=149.5km s-min=49.2km az=126.0.
IDC V 26 16 43 36.8–12 6.78S 148.47E 0 3.4,3.2
¶17204515
IDC Error ellipse: s-maj=181.3km s-min=80.5km az=14.0.
ISC V 27 04 04 27.2–.98 6.2S–.20 150.8E–.20 48 4.0b 11 5-149
ISCJB V 27 04 04 26.2–.78 6.2S–.20 150.7E–.20 48 4.0b ¶16631868
NEIC V 27 04 04 27.8–2.6 6.19S 150.79E 51–23 4.1b
IDC V 27 04 04 27.1–5.8 6.08S 150.65E 41–51 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=31.8km s-min=9.8km az=39.8.
NEIC Event type se. Error ellipse: s-maj=29.8km s-min=18.5km az=122.0.
IDC Error ellipse: s-maj=68.1km s-min=29.9km az=126.0.
ISC V 27 05 05 49.3–.35 6.64S–.05 148.00E–.06 51 4.7b,4.3s 130 3-153
IDC V 27 05 05 41.7–.61 6.53S 147.99E 0 4.6,4.5 ¶16549381
ISCJB V 27 05 05 47.3–.28 6.64S–.03 147.94E–.05 51 4.7b,4.3s
NEIC V 27 05 05 49.8–.66 6.63S 147.91E 58–6 4.7b,4.3s
DJA V 27 05 05 55.2–1.2 7S–8.0 148E–11 80–8 5.6b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 27 05 07 45.6–.81 6.55S–.07 148.2E–.20 51 4.1b 26 3-146
IDC V 27 05 07 37.4–1.3 6.77S 148.55E 0 4.2,4.1 ¶16632918
ISCJB V 27 05 07 44.3–.68 6.60S–.06 148.2E–.10 51 4.3b,4.1s
NEIC V 27 05 07 48.4–2.1 6.65S 148.13E 74–17 4.4b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=57.4km s-min=18.2km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=9.1km az=179.6.
NEIC Event type se. Error ellipse: s-maj=20.4km s-min=11.8km az=71.0.
IDC V 27 07 23 29.8–7.0 6.60S 149.73E 77–50 4.1L,3.9
¶17204550
IDC Error ellipse: s-maj=110.5km s-min=45.9km az=125.0.
IDC V 27 15 27 11.6–5.3 6.32S 149.21E 58–50 3.9L,3.8
¶17204575
IDC Error ellipse: s-maj=76.5km s-min=27.1km az=111.0.
ISC V 29 06 21 05.4–1.2 4.1S–.10 152.1E–.20 250 3.8b 11 7-149
ISCJB V 29 06 21 04.0–1.1 4.1S–.10 152.2E–.10 250 4.1b ¶17204678
IDC V 29 06 21 05.6–2.1 4.11S 152.13E 252–19 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=13.7km az=30.8.
IDC Error ellipse: s-maj=18.5km s-min=16.3km az=90.0.
ISC V 29 07 33 11.7–.36 5.85S–.03 149.34E–.04 106–2 5.2b 403 3-154
BJI V 29 07 33 07.8 6.24S 149.62E 115 5.3b,5.1b ¶16551463
ISCJB V 29 07 33 11.7–.68 5.82S–.02 149.26E–.03 118–6 5.2b,5.1b
IDC V 29 07 33 11.8–.49 5.86S 149.27E 102–3 5.2,5.0
MOS V 29 07 33 14.1–1.3 5.83S 149.15E 135 5.0b,5.0
NEIC V 29 07 33 16.2–1.6 5.85S 149.31E 146–15 5.3b,5.0
GCMT V 29 07 33 16.2–.20 5.92S 149.33E 106–2 5.2W,5.0
DJA V 29 07 33 17.2–1.0 6S–4.0 149E–6.0 145–10 5.8b,5.4b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c92; s97,c149;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.69±.18 $M_{\theta\theta}$3.79±.20; $M_{\phi\phi}$-1.10±.21; $M_{r\theta}$-4.81±.11; $M_{\theta\phi}$0.71±.18; $M_{\phi r}$-2.89±.11; Best double couple: NP1:ϕ_s61.00000°,δ76.00000°,λ-105.00000°. NP2:ϕ_s289.00000°,δ20.00000°,λ-43.00000°. Principal axes: T 6.8700,Plg30.0000°,Azm163.0000°; N -0.6060,Plg15.0000°,Azm65.0000° ; P -6.2640,Plg56.0000°,Azm312.0000° $M_0$6.56700×10^{16}
ISC V 29 23 35 25.1–.67 5.2S–.10 153.0E–.10 43 4.0b,3.3s 18 8-151
IDC V 29 23 35 18.2–1.4 5.18S 153.08E 0 4.1,3.9 ¶16632930
ISCJB V 29 23 35 23.0–.57 5.19S–.09 153.0E–.10 43 4.1b,3.2s
NEIC V 29 23 35 24.3–.42 5.18S 152.91E 35 4.6b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=51.5km s-min=21.2km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=12.9km az=170.3.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=10.0km az=84.0.
ISC V 30 05 53 11.7–1.6 5.8S–.20 150.3E–.40 100 3.6b 8 5-148
ISCJB V 30 05 53 09.4–1.1 5.9S–.20 150.4E–.30 100 3.7b ¶17204742
IDC V 30 05 53 15.9–3.7 5.89S 149.99E 142–30 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=44.0km s-min=10.2km az=31.2.
IDC Error ellipse: s-maj=63.4km s-min=18.2km az=108.0.
IDC VI 01 15 23 50.7–3.0 4.48S 152.72E 0 3.6,3.5
¶17204903
IDC Error ellipse: s-maj=103.0km s-min=28.9km az=111.0.
IDC VI 01 19 12 32.4–4.4 5.36S 149.86E 0 3.5,3.4
¶17204918
IDC Error ellipse: s-maj=125.2km s-min=29.7km az=106.0.
ISC VI 02 04 11 26.2–.00 5.6S–.10 150.0E–.20 10 4.0b 9 5-86
ISCJB VI 02 04 11 24.8–.83 5.55S–.09 149.9E–.10 10 3.9b,3.6s ¶17204940
IDC VI 02 04 11 24.6–1.0 5.60S 150.00E 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=9.9km az=26.2.
IDC Error ellipse: s-maj=28.9km s-min=18.1km az=108.0.
IDC VI 02 09 00 01.3–6.9 6.08S 151.59E 72–56 3.7,3.7
¶17204974
IDC Error ellipse: s-maj=111.6km s-min=35.1km az=127.0.
ISC VI 02 10 25 48.1–1.1 5.5S–.20 151.4E–.30 57 3.9b,3.2s 12 6-149
ISCJB VI 02 10 25 47.1–1.1 5.5S–.20 151.3E–.20 57 4.1b,3.3s ¶17204987
IDC VI 02 10 25 49.0–4.9 5.57S 151.39E 65–41 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=44.1km s-min=10.1km az=38.4.
IDC Error ellipse: s-maj=49.2km s-min=25.5km az=124.0.
ISC VI 03 23 34 53.3–.87 5.78S–.09 148.0E–.20 60 3.9b 14 4-146
ISCJB VI 03 23 34 52.3–.73 5.69S–.07 148.0E–.10 60 4.0b,3.1s ¶17205135
IDC VI 03 23 34 57.1–4.2 5.74S 148.19E 96–40 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.2km s-min=8.4km az=16.5.
IDC Error ellipse: s-maj=27.5km s-min=24.8km az=138.0.
ISC VI 04 03 14 12.9–1.1 6.9S–.20 154.0E–.20 35 3.9b 12 7-152
ISCJB VI 04 03 14 10.8–.97 6.9S–.10 154.1E–.20 33 3.8b ¶17205153
IDC VI 04 03 14 15.9–5.7 6.94S 153.96E 62–48 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.9km s-min=14.5km az=32.2.
IDC Error ellipse: s-maj=41.0km s-min=21.6km az=103.0.
IDC VI 04 08 04 56.8–4.7 4.27S 150.58E 119–45 3.7,3.5
¶17205170
IDC Error ellipse: s-maj=128.4km s-min=28.7km az=126.0.
ISC VI 04 14 47 36.5–1.9 5.8S–.40 152.5E–.40 38 3.7b 9 6-150
IDC VI 04 14 47 35.9–9.1 5.80S 152.69E 36–70 3.9,3.8 ¶17205223
ISC Event type ke.
IDC Error ellipse: s-maj=71.8km s-min=34.0km az=120.0.
ISC VI 04 17 46 39.9–2.7 6.8S–.30 150.4E–.50 33 3.8b 7 4-149
IDC VI 04 17 46 34.8–3.2 6.72S 150.38E 0 4.0,3.9 ¶17205244
ISC Event type ke.
IDC Error ellipse: s-maj=90.8km s-min=26.9km az=112.0.
ISC VI 05 06 49 45.4–1.0 4.2S–.10 152.2E–.20 150 3.5b 10 7-83
ISCJB VI 05 06 49 44.2–.82 4.10S–.10 152.2E–.10 150 3.5b ¶17205285
IDC VI 05 06 49 44.9–4.4 4.13S 152.20E 144–42 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=11.8km az=25.5.
IDC Error ellipse: s-maj=27.2km s-min=25.5km az=85.0.
IDC VI 05 08 02 27.5–2.0 4.53S 152.94E 0 3.7,3.5
¶17205296
IDC Error ellipse: s-maj=85.5km s-min=27.1km az=121.0.
ISC VI 05 12 49 03.6–.56 6.51S–.06 148.04E–.09 51 4.3b 36 3-153
IDC VI 05 12 48 56.2–.78 6.49S 148.19E 0 4.8,4.8s ¶16640743
ISCJB VI 05 12 49 01.5–.47 6.58S–.05 148.02E–.07 51 4.9s,4.3b
NEIC VI 05 12 49 03.6–1.0 6.59S 148.04E 53–10 4.9b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=27.5km s-min=14.6km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=7.0km az=5.8.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=8.5km az=75.0.
IDC VI 05 17 45 29.1–2.0 4.86S 152.82E 0 3.5,3.5
¶17205348
IDC Error ellipse: s-maj=46.4km s-min=33.2km az=157.0.
IDC VI 06 13 29 37.5–2.7 7.85S 150.21E 0 3.7,3.5
¶17205414
IDC Error ellipse: s-maj=88.5km s-min=38.3km az=137.0.
ISC VI 08 15 40 14.6–.27 4.56S–.03 150.01E–.03 505–2 5.2b 1052 2-155
ISCJB VI 08 15 40 13.9–.35 4.56S–.02 149.94E–.02 506–4 5.2b ¶16720886
BJI VI 08 15 40 13.9 4.47S 150.20E 516 5.1b,4.9b
DJA VI 08 15 40 14.7–.60 5S–4.0 150E–4.0 513–7 6.1,5.3b
MOS VI 08 15 40 14.3–.86 4.48S 149.93E 505 5.4b,5.3b
GCMT VI 08 15 40 15.1–.20 4.43S 149.91E 500–1 5.5W,5.3b
NEIC VI 08 15 40 15.1–.08 4.57S 149.94E 511 5.3b,5.3b
IDC VI 08 15 40 15.3–.51 4.62S 149.96E 510–5 5.5,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.0km az=36.6.
MOS Error ellipse: s-maj=7.0km s-min=5.1km az=103.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s102,c174;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.56±.03 $M_{\theta\theta}$0.15±.05; $M_{\phi\phi}$1.41±.05; $M_{r\theta}$-0.77±.06; $M_{\theta\phi}$1.03±.05; $M_{\phi r}$-0.24±.06; Best double couple: NP1:ϕ_s48.00000°,δ58.00000°,λ-66.00000°. NP2:ϕ_s189.00000° ,δ40.00000°,λ-123.00000°. Principal axes: T 2.0850,Plg9.0000°,Azm121.0000° ; N -0.2250,Plg20.0000°,Azm215.0000°; P -1.8620,Plg68.0000°,Azm8.0000° $M_0$1.97300×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=2.6km az=102.0.
IDC Error ellipse: s-maj=9.0km s-min=6.3km az=79.0.
ISC VI 08 18 31 33.1–.85 6.54S–.07 148.1E–.20 51 3.9b,3.1s 26 3-146
ISCJB VI 08 18 31 31.6–.72 6.59S–.06 148.0E–.10 51 4.1b,3.1s ¶16856688
IDC VI 08 18 31 32.9–3.2 6.63S 148.08E 48–30 4.0,4.0
NEIC VI 08 18 31 34.0–1.7 6.61S 148.02E 57–15 4.8b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=8.8km az=6.9.
IDC Error ellipse: s-maj=33.0km s-min=16.8km az=93.0.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=11.9km az=97.0.
IDC VI 09 02 38 01.5–1.6 6.49S 149.97E 0 3.7,3.5
¶17205585
IDC Error ellipse: s-maj=59.9km s-min=23.5km az=111.0.
IDC VI 09 13 21 50.8–3.4 6.71S 148.13E 0 3.9,3.8b
¶17205630
IDC Error ellipse: s-maj=100.1km s-min=45.3km az=119.0.
IDC VI 09 13 23 53.9–3.3 6.76S 148.32E 0 3.7,3.6b
¶17205631
IDC Error ellipse: s-maj=101.1km s-min=43.7km az=119.0.
IDC VI 09 14 01 12.1–3.1 6.54S 148.07E 0 3.7,3.6b
¶17205633
IDC Error ellipse: s-maj=77.8km s-min=38.3km az=106.0.
ISC VI 09 23 52 00.6–.72 6.50S–.08 148.1E–.10 51 4.5b 18 3-146
IDC VI 09 23 51 53.7–1.5 6.51S 148.16E 0 4.1,3.8 ¶16713618
ISCJB VI 09 23 51 58.9–.58 6.60S–.09 148.06E–.09 51 4.4b,3.8
NEIC VI 09 23 51 59.2–.41 6.54S 148.02E 35 4.6b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=58.0km s-min=22.3km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=11.4km az=38.4.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=8.6km az=127.0.
ISC VI 10 00 58 58.1–.27 6.76S–.04 150.52E–.05 26 5.1b,4.0s 337 3-156
IDC VI 10 00 58 53.6–.43 6.67S 150.43E 0 4.8,4.8 ¶16720894
ISCJB VI 10 00 58 56.6–.15 6.74S–.03 150.33E–.03 26 5.0b,4.1s
BJI VI 10 00 58 56.3 6.20S 150.45E 7 4.9b,4.9s
MOS VI 10 00 58 57.8–1.6 6.67S 150.30E 33 5.3b,4.9s
NEIC VI 10 00 58 58.1–2.1 6.71S 150.42E 26–15 5.2b,4.9s
GCMT VI 10 00 58 58.1–.20 6.89S 150.39E 16–0 5.0W,4.9s
DJA VI 10 00 59 15.0–2.2 8S–12 150E–14 100–13 5.3b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c43; s76,c140;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.89±.16 $M_{\theta\theta}$3.10±.10; $M_{\phi\phi}$-0.21±.09; $M_{r\theta}$2.03±.27; $M_{\theta\phi}$0.01±.07; $M_{\phi r}$0.24±.36; Best double couple: NP1:ϕ_s266.00000°,δ62.00000°,λ-94.00000°. NP2:ϕ_s94.00000°,δ28.00000°,λ-83.00000° . Principal axes: T 3.7250,Plg17.0000°,Azm359.0000°; N -0.2010,Plg3.0000°,Azm268.0000° ; P -3.5280,Plg73.0000°,Azm167.0000° $M_0$3.62700×10^{16}
ISC VI 10 04 31 16.6–1.5 6.5S–.10 148.1E–.40 51 3.6b,3.3s 9 3-146
IDC VI 10 04 31 10.0–1.7 6.45S 148.06E 0 3.9,3.7L ¶17205683
ISCJB VI 10 04 31 15.2–1.3 6.5S–.10 147.9E–.30 51 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 10 14 16 39.6–1.4 6.88S 150.56E 41–8 3.8,3.7
¶17205711
IDC Error ellipse: s-maj=78.8km s-min=13.8km az=135.0.
ISC VI 10 14 44 38.6–1.2 6.8S–.30 150.6E–.30 26 3.7b 12 4-149
ISCJB VI 10 14 44 36.7–1.2 6.8S–.30 150.5E–.20 26 3.6b,2.7s ¶17205712
IDC VI 10 14 44 40.2–1.2 6.84S 150.52E 38–7 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.0km s-min=13.2km az=137.8.
IDC Error ellipse: s-maj=54.8km s-min=17.9km az=128.0.
ISC VI 10 15 10 44.9–1.2 6.7S–.30 150.5E–.30 33 3.9b 11 4-149

ISCJB VI 10 15 10 42.8–1.2 6.7S–.30 150.4E–.30 33 3.8b ¶17205714
IDC VI 10 15 10 45.4–1.0 6.77S 150.47E 41–7 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=49.9km s-min=13.4km az=136.3.
IDC Error ellipse: s-maj=49.3km s-min=13.3km az=133.0.
ISC VI 10 19 07 09.2–1.0 5.7S–.10 152.0E–.20 45 4.5b 35 2-150
IDC VI 10 19 07 01.6–1.5 5.72S 152.22E 0 4.2,4.0 ¶16590033
ISCJB VI 10 19 07 07.6–.57 5.72S–.08 152.0E–.10 45 4.3b,4.1s
NEIC VI 10 19 07 09.1–1.8 5.80S 152.14E 50–14 4.5b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=54.2km s-min=19.9km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=6.7km az=32.3.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=8.4km az=116.0.
ISC VI 10 19 57 02.4–.72 6.4S–.10 150.0E–.10 43 4.3b 30 3-148
IDC VI 10 19 56 57.9–1.1 6.64S 150.13E 0 4.1,3.9 ¶16856896
ISCJB VI 10 19 57 01.0–.50 6.37S–.08 149.89E–.10 43 4.2b,2.3s
NEIC VI 10 19 57 02.1–.49 6.35S 149.89E 35 4.6b,2.3s
ISC Event type se.
IDC Error ellipse: s-maj=64.4km s-min=19.1km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=6.6km az=39.1.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=7.2km az=129.0.
IDC VI 10 19 59 51.8–2.0 6.72S 150.67E 0 4.0,3.8
¶17205729
IDC Error ellipse: s-maj=93.3km s-min=26.9km az=130.0.
IDC VI 10 20 14 15.5–7.3 5.69S 152.18E 52–59 3.4,3.4
¶17205730
IDC Error ellipse: s-maj=113.5km s-min=37.0km az=128.0.
IDC VI 11 12 30 24.4–2.8 5.07S 151.05E 202–26 4.0,3.6
¶17205772
IDC Error ellipse: s-maj=25.4km s-min=17.7km az=116.0.
ISC VI 11 14 53 56.5–.62 6.54S–.08 149.0E–.10 53 4.1b,3.4s 25 3-147
IDC VI 11 14 53 49.0–.66 6.39S 148.95E 0 4.3,4.1 ¶16856964
ISCJB VI 11 14 53 54.8–.59 6.45S–.06 148.8E–.10 53 4.0b,3.4s
NEIC VI 11 14 53 56.0–1.8 6.43S 148.77E 46–17 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=14.2km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=19.9km s-min=7.2km az=17.9.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=12.0km az=106.0.
ISC VI 11 18 42 01.1–.43 6.83S–.06 150.47E–.07 26 4.4b,3.1s 72 3-151
ISCJB VI 11 18 41 59.2–.36 6.77S–.05 150.35E–.06 26 4.4b,3.0s ¶16601803
NEIC VI 11 18 42 01.8–.99 6.88S 150.49E 34–7 4.8b,3.0s
IDC VI 11 18 42 02.2–.61 6.79S 150.39E 37–4 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.7km az=31.4.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.9km az=112.0.
IDC Error ellipse: s-maj=20.5km s-min=11.8km az=109.0.
IDC VI 11 23 45 46.2–6.3 7.53S 150.00E 94–53 3.7,3.7L
¶17205805
IDC Error ellipse: s-maj=114.4km s-min=35.5km az=122.0.
ISC VI 12 06 34 39.2–.41 6.16S–.04 148.97E–.05 67–3 4.9b 215 4-154
MOS VI 12 06 34 38.8–1.0 6.06S 148.90E 74 5.1b ¶16591652
BJI VI 12 06 34 39.8 6.03S 149.07E 80 5.0b,4.7b
ISCJB VI 12 06 34 39.0–.78 6.11S–.03 148.96E–.04 79–7 4.8b,4.7b
IDC VI 12 06 34 40.4–1.2 6.07S 148.93E 79–10 4.7,4.5
NEIC VI 12 06 34 41.1–.55 6.09S 148.92E 86–5 4.9b,4.5
DJA VI 12 06 34 52.3–1.1 7S–7.0 148E–10 124–6 5.4b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 12 06 46 44.5–.61 6.73S–.10 150.2E–.10 26–3 4.0b 37 4-151
ISCJB VI 12 06 46 40.7–4.3 6.71S–.09 150.3E–.10 15–27 4.0b,2.9s ¶16730149
NEIC VI 12 06 46 45.3–.34 6.72S 150.33E 35 4.5b,2.9s
IDC VI 12 06 46 46.0–.63 6.71S 150.30E 38–4 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.9km s-min=9.5km az=33.4.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=5.7km az=118.0.
IDC Error ellipse: s-maj=23.8km s-min=13.3km az=111.0.
ISC VI 12 08 44 17.3–.96 6.06S–.09 148.1E–.10 60 4.3b 14 3-146
IDC VI 12 08 44 10.5–1.7 5.79S 148.14E 0 4.3,4.3L ¶16730155
NEIC VI 12 08 44 15.2–.64 5.84S 148.06E 35 4.0b,4.3L
ISCJB VI 12 08 44 16.6–1.0 6.2S–.10 148.2E–.10 60 4.5b,4.3L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 14 06 19 53.4–1.7 6.1S–.30 152.9E–.30 36 3.8b 8 7-151
ISCJB VI 14 06 19 51.6–1.7 6.1S–.30 152.9E–.30 36 3.7b ¶17206090
IDC VI 14 06 20 02.1–5.6 5.91S 152.10E 92–46 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.0km s-min=14.7km az=137.6.
IDC Error ellipse: s-maj=64.5km s-min=26.8km az=118.0.
IDC VI 14 08 44 10.5–3.2 6.64S 148.31E 0 3.7,3.6b
¶17206102
IDC Error ellipse: s-maj=82.7km s-min=33.5km az=106.0.
IDC VI 15 13 25 48.8–4.0 4.22S 151.63E 0 3.3,3.1
¶17206185
IDC Error ellipse: s-maj=173.6km s-min=48.4km az=117.0.
ISC VI 16 00 03 37.6–.30 5.88S–.02 151.20E–.02 27–1 6.5s,6.0b 2088 2-166
ISCJB VI 16 00 03 33.2–.68 5.90S–.02 151.13E–.02 7–4 6.5s,5.9b ¶602918643
IDC VI 16 00 03 33.5–.88 5.85S 151.19E 8–4 6.2,6.2s
BJI VI 16 00 03 34.5 6.00S 151.20E 20 6.4s,6.3
GCMT VI 16 00 03 35.8–.10 6.12S 151.21E 22 6.3W,6.3
NEIC VI 16 00 03 35.8–.11 5.93S 151.04E 16 6.5s,6.4W
MOS VI 16 00 03 36.9–1.3 5.88S 151.08E 35 6.4s,6.0b
NEIC VI 16 00 03 36.0–.00 5.99S 151.10E 25 6.4s,6.0b
DJA VI 16 00 03 41.9–.50 6S–2.0 151E–3.0 53–5 6.5b,6.3
NEIC VI 16 00 04 01.5–.00 5.55S 151.30E 26 6.5b,6.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=175.1.
IDC Error ellipse: s-maj=8.2km s-min=6.0km az=74.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c345; s147,c514;Duration: 3s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.35±.02 $M_{\theta\theta}$-2.41±.01; $M_{\phi\phi}$2.06±.01; $M_{r\theta}$3.48±.03; $M_{\theta\phi}$0.56±.01; $M_{\phi r}$-1.25±.03; Best double couple: NP1:ϕ_s122.00000°,δ84.00000°,λ114.00000°. NP2:ϕ_s225.00000°,δ25.00000°,λ15.00000°. Principal axes: T 3.2280,Plg46.0000°,Azm57.0000° ; N 1.7400,Plg24.0000°,Azm299.0000°; P -4.9700,Plg35.0000°,Azm192.0000° M_o4.09900×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.8km az=126.0. Felt at Kimbe. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. M_o6.30000×10^{18} Moment Tensor Solution. s86 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.01 $M_{\theta\theta}$-0.76 $M_{\phi\phi}$0.77 $M_{r\theta}$2.34 $M_{\theta\phi}$-0.16 $M_{\phi r}$-0.53 Best double couple: NP1:ϕ_s107.00000°,δ87.00000°,λ103.00000°. NP2:ϕ_s209.00000°,δ13.00000°,λ13.00000°. Principal axes: T 2.1700,Plg46.0000°,Azm30.0000° ; N 0.6000,Plg13.0000°,Azm286.0000°; P -2.7700,Plg41.0000°,Azm185.0000° M_o2.50000×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=4.9km az=96.4.
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{18}Nm; M_{rr}0.36 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$1.44 $M_{r\theta}$4.46 $M_{\theta\phi}$0.35 $M_{\phi r}$0.09 Best double couple: NP1:ϕ_s87.00000°,δ83.00000°,λ84.00000°. NP2:ϕ_s311.00000°,δ9.00000°,λ134.00000°. Principal axes: T 3.9000,Plg51.0000°,Azm349.0000°; N 1.4200,Plg6.0000°,Azm87.0000° ; P -5.3200,Plg38.0000°,Azm182.0000° M_o4.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.08 $M_{\theta\theta}$-1.79 $M_{\phi\phi}$1.87 $M_{r\theta}$2.92 $M_{\theta\phi}$0.46 $M_{\phi r}$-2.05 Best double couple: NP1:ϕ_s225.00000°,δ27.00000°,λ2.00000°. NP2:ϕ_s133.00000°,δ89.00000°,λ117.00000°. Principal axes: T 3.5200,Plg40.0000°,Azm68.0000°; N 0.8800,Plg27.0000°,Azm313.0000° ; P -4.4000,Plg38.0000°,Azm199.0000° M_o4.00000×10^{18}
ISC VI 16 00 10 14.2–.55 5.85S–.08 151.23E–.09 43 5.3b 34 2-151
IDC VI 16 00 10 09.1–.83 5.81S 151.32E 0 4.9,4.7 ¶16730593
NEIC VI 16 00 10 10.6–4.5 5.88S 151.26E 13–28 5.3b,4.7
ISCJB VI 16 00 10 12.6–.46 5.88S–.07 151.20E–.07 43 5.2b,4.7
ISC Event type se.
NEIC Event type se.

ISCJB Event type se.
IDC VI 16 00 13 01.5–1.7 5.84S 151.36E 0 4.8,4.6
¶17206206
IDC Error ellipse: s-maj=107.6km s-min=25.3km az=130.0.
IDC VI 16 00 15 11.6–1.9 6.11S 151.63E 0 4.4,4.2b
¶17206207
IDC Error ellipse: s-maj=112.4km s-min=24.0km az=132.0.
IDC VI 16 00 21 47.1–1.5 5.66S 151.48E 0 4.2,4.0
¶17206208
IDC Error ellipse: s-maj=78.1km s-min=25.5km az=131.0.
ISC VI 16 00 23 19.6–.55 5.6S–.10 150.9E–.10 65 4.7b 34 2-152
IDC VI 16 00 23 11.4–.89 5.74S 150.98E 0 4.6,4.4 ¶16730597
NEIC VI 16 00 23 13.3–.36 5.68S 150.85E 10 4.9b,4.4
ISCJB VI 16 00 23 18.0–.44 5.68S–.09 150.79E–.10 65 5.0b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 16 00 23 46.0–.41 5.91S–.06 151.22E–.07 41 4.8b 78 5-151
IDC VI 16 00 23 39.8–.64 6.00S 151.30E 0 4.5,4.4 ¶16720927
NEIC VI 16 00 23 41.7–.25 5.91S 151.22E 10 5.1b,4.4
ISCJB VI 16 00 23 44.2–.31 5.96S–.05 151.21E–.06 41 4.8b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 16 00 27 23.2–1.9 5.61S 151.20E 0 4.7,4.7s
¶17206209
IDC Error ellipse: s-maj=113.1km s-min=26.3km az=129.0.
IDC VI 16 00 28 56.4–2.0 5.67S 151.20E 0 4.2,3.9
¶17206210
IDC Error ellipse: s-maj=120.4km s-min=27.7km az=129.0.
ISC VI 16 00 31 32.2–1.2 5.8S–.20 151.3E–.20 41 3.8b 10 5-124
IDC VI 16 00 31 25.7–1.6 5.76S 151.40E 0 4.2,4.0 ¶17206212
ISCJB VI 16 00 31 30.8–1.2 5.8S–.20 151.2E–.20 41 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 00 33 51.7–.61 5.81S–.09 151.2E–.10 43 4.4b 26 5-151
IDC VI 16 00 33 45.5–.63 5.76S 151.19E 0 4.5,4.3 ¶16730602
ISCJB VI 16 00 33 49.9–.55 5.79S–.08 151.1E–.10 43 4.2b,4.3
NEIC VI 16 00 33 51.0–1.9 5.80S 151.20E 36–16 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=16.1km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=8.2km az=30.1.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=11.3km az=89.0.
ISC VI 16 00 36 20.2–.38 5.88S–.06 151.09E–.08 41 4.7b 98 2-151
IDC VI 16 00 36 13.5–.50 5.89S 151.30E 0 4.7,4.6 ¶16720928
ISCJB VI 16 00 36 18.1–.32 5.90S–.04 151.19E–.07 41 4.7b,4.6
NEIC VI 16 00 36 18.9–.59 5.92S 151.31E 37–5 4.9b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=11.1km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=5.1km az=18.7.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=121.0.
IDC VI 16 00 39 48.5–2.0 5.42S 150.92E 0 4.5,4.3
¶17206213
IDC Error ellipse: s-maj=119.1km s-min=26.8km az=128.0.
ISC VI 16 00 46 07.3–1.1 5.8S–.20 151.3E–.20 43 4.0b 11 5-151
IDC VI 16 00 46 00.9–1.1 5.61S 151.17E 0 4.4,4.2 ¶17206214
ISCJB VI 16 00 46 05.4–1.1 5.7S–.20 151.1E–.10 43 4.0b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC VI 16 00 47 35.6–1.5 5.72S 151.04E 0 4.2,4.0
¶17206215
IDC Error ellipse: s-maj=67.7km s-min=26.0km az=121.0.
IDC VI 16 00 57 30.9–2.1 5.36S 150.92E 0 4.0,3.7
¶17206216
IDC Error ellipse: s-maj=113.2km s-min=29.5km az=129.0.
ISC VI 16 00 59 51.0–.62 6.05S–.07 151.16E–.09 43 4.6b 38 2-124
NEIC VI 16 00 59 46.8–.44 5.96S 151.14E 10 4.9b ¶16730607
ISCJB VI 16 00 59 49.7–.46 6.02S–.05 151.08E–.07 43 4.5b
IDC VI 16 00 59 53.7–3.7 6.03S 151.15E 66–33 4.1,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=6.9km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=5.7km az=31.3.
IDC Error ellipse: s-maj=27.9km s-min=20.7km az=89.0.
IDC VI 16 01 08 59.7–1.9 6.40S 152.05E 0 4.1,3.9
¶17206217
IDC Error ellipse: s-maj=79.4km s-min=24.9km az=126.0.
IDC VI 16 01 10 47.8–2.2 5.65S 151.02E 0 4.0,3.7
¶17206218
IDC Error ellipse: s-maj=108.5km s-min=31.3km az=129.0.
IDC VI 16 01 11 28.2–2.0 5.44S 151.04E 0 4.0,3.7
¶17206221
IDC Error ellipse: s-maj=116.7km s-min=27.3km az=130.0.
IDC VI 16 01 15 46.8–2.1 5.60S 151.08E 0 4.0,3.7
¶17206222
IDC Error ellipse: s-maj=106.8km s-min=30.0km az=129.0.
ISC VI 16 01 21 57.6–.91 5.8S–.10 151.3E–.20 41 4.3b 18 5-124
IDC VI 16 01 21 51.0–1.1 5.78S 151.50E 0 4.4,4.2 ¶16725682
NEIC VI 16 01 21 52.7–.62 5.76S 151.46E 10 4.6b,4.2
ISCJB VI 16 01 21 55.9–.84 5.8S–.10 151.2E–.10 41 4.3b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 16 01 24 02.2–2.0 5.62S 151.32E 0 4.3,4.0
¶17206223
IDC Error ellipse: s-maj=109.6km s-min=27.5km az=130.0.
ISC VI 16 01 25 13.2–.39 5.99S–.05 151.17E–.06 43 4.6b 150 2-151
IDC VI 16 01 25 06.2–.64 5.84S 151.25E 0 4.6,4.5s ¶16628207
NEIC VI 16 01 25 08.2–.23 5.80S 151.16E 10 4.9b,4.5s
MOS VI 16 01 25 10.8–1.3 5.73S 151.17E 33 4.9b,4.5s
ISCJB VI 16 01 25 11.1–.29 5.92S–.04 151.16E–.06 43 4.7s,4.6b
BJI VI 16 01 25 11.1 6.08S 151.11E 37 5.3b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=11.8km az=111.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.4km az=114.0.
MOS Error ellipse: s-maj=12.2km s-min=8.2km az=79.2.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.7km az=24.3.
IDC VI 16 01 28 39.0–2.2 5.69S 151.17E 0 4.2,3.9
¶17206224
IDC Error ellipse: s-maj=120.0km s-min=30.7km az=130.0.
IDC VI 16 01 33 03.3–2.2 5.83S 150.66E 0 4.0,3.7
¶17206225
IDC Error ellipse: s-maj=114.2km s-min=30.1km az=129.0.
IDC VI 16 01 33 33.3–1.9 5.47S 151.12E 0 4.5,4.3
¶17206228
IDC Error ellipse: s-maj=101.9km s-min=25.2km az=129.0.
IDC VI 16 01 41 55.9–4.2 6.07S 151.23E 0 3.7,3.4
¶17206229
IDC Error ellipse: s-maj=179.0km s-min=52.8km az=120.0.
IDC VI 16 01 43 46.0–4.1 5.57S 151.30E 0 3.6,3.4
¶17206230
IDC Error ellipse: s-maj=158.0km s-min=55.0km az=118.0.
ISC VI 16 01 46 12.5–.43 6.11S–.05 151.30E–.07 41 4.6b 99 2-151
IDC VI 16 01 46 05.9–.53 5.92S 151.35E 0 4.6,4.5 ¶16720930
NEIC VI 16 01 46 07.4–.28 5.92S 151.39E 10 4.8b,4.5
ISCJB VI 16 01 46 10.7–.38 6.01S–.04 151.22E–.07 41 4.5b,4.3s
BJI VI 16 01 46 11.7 6.21S 151.13E 45 5.2b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=13.8km az=91.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.3km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=5.1km az=15.8.
ISC VI 16 01 50 17.5–.74 6.0S–.10 151.2E–.20 43 4.0b 17 5-151

IDC VI 16 01 50 11.1–.75 6.02S 151.25E 0 4.4,4.1 ¶17206231
ISCJB VI 16 01 50 15.9–.82 6.0S–.10 151.1E–.20 43 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC VI 16 01 55 34.7–2.3 5.78S 151.25E 0 4.4,4.2 ¶17206232
IDC Error ellipse: s-maj=105.8km s-min=32.7km az=126.0.
IDC VI 16 02 03 10.6–1.1 5.68S 151.24E 0 4.4,4.3 ¶17206233
IDC Error ellipse: s-maj=48.4km s-min=21.4km az=122.0.
IDC VI 16 02 05 18.9–4.5 5.53S 151.00E 0 3.9,3.6 ¶17206234
IDC Error ellipse: s-maj=206.6km s-min=49.1km az=118.0.
ISC VI 16 02 09 17.4–.64 5.8S–.10 151.3E–.10 41 4.3b 28 5-151
IDC VI 16 02 09 11.1–.65 5.78S 151.38E 0 4.5,4.3 ¶16725683
NEIC VI 16 02 09 12.7–.38 5.75S 151.36E 10 4.1b,4.3
ISCJB VI 16 02 09 15.4–.66 5.84S–.09 151.31E–.10 41 4.2b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 16 02 16 57.6–4.2 5.68S 150.95E 0 3.5,3.3 ¶17206235
IDC Error ellipse: s-maj=163.3km s-min=55.0km az=118.0.
ISC VI 16 02 30 38.3–1.1 5.9S–.20 151.3E–.20 41 4.0b 11 5-149
IDC VI 16 02 30 32.0–1.1 5.87S 151.50E 0 4.3,4.1 ¶17206237
ISCJB VI 16 02 30 36.7–1.1 5.9S–.20 151.2E–.20 41 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC VI 16 02 33 21.9–3.4 5.81S 151.12E 0 4.0,3.8 ¶17206238
IDC Error ellipse: s-maj=118.6km s-min=48.9km az=121.0.
IDC VI 16 02 35 19.5–3.6 5.62S 150.94E 0 3.9,3.6 ¶17206239
IDC Error ellipse: s-maj=142.5km s-min=47.8km az=117.0.
IDC VI 16 02 46 28.2–3.7 5.74S 150.97E 0 4.2,4.0 ¶17206240
IDC Error ellipse: s-maj=110.4km s-min=51.7km az=120.0.
IDC VI 16 02 47 48.9–1.9 5.62S 151.31E 0 4.2,4.0 ¶17206241
IDC Error ellipse: s-maj=102.5km s-min=24.5km az=129.0.
IDC VI 16 02 56 29.2–4.0 5.56S 150.91E 0 3.5,3.2 ¶17206242
IDC Error ellipse: s-maj=164.0km s-min=51.7km az=117.0.
IDC VI 16 03 06 16.9–3.6 5.71S 151.14E 0 3.8,3.6 ¶16730637
IDC Error ellipse: s-maj=114.4km s-min=50.4km az=121.0.
ISC VI 16 03 07 15.3–.47 6.26S–.06 151.32E–.08 35 4.7b 70 2-151
NEIC VI 16 03 07 11.7–.51 6.18S 151.28E 10 4.8b ¶17206243
IDC VI 16 03 07 13.3–3.5 6.20S 151.34E 25–21 4.4,4.4
ISCJB VI 16 03 07 14.2–.40 6.22S–.05 151.16E–.07 35 4.7s,4.6b
BJI VI 16 03 07 16.1 6.41S 150.88E 39 5.0b,4.8s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.8km az=115.0.
IDC Error ellipse: s-maj=28.8km s-min=14.4km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=4.9km az=30.2.
IDC VI 16 03 11 30.4–2.0 5.54S 151.19E 0 4.0,3.7 ¶17206245
IDC Error ellipse: s-maj=116.5km s-min=26.5km az=129.0.
IDC VI 16 03 14 24.6–4.0 5.45S 150.62E 0 3.4,3.2 ¶17206247
IDC Error ellipse: s-maj=165.2km s-min=51.4km az=116.0.
IDC VI 16 03 20 55.1–3.4 5.62S 150.99E 0 4.1,3.9 ¶17206248
IDC Error ellipse: s-maj=111.2km s-min=48.2km az=120.0.
ISC VI 16 03 26 28.1–.71 6.12S–.09 151.4E–.10 41 4.1b 28 5-149
IDC VI 16 03 26 21.2–.82 5.97S 151.32E 0 4.2,4.0 ¶16725684
NEIC VI 16 03 26 22.9–.53 5.96S 151.35E 10 4.5b,4.0
ISCJB VI 16 03 26 26.4–.63 6.16S–.07 151.28E–.09 41 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 16 03 31 15.1–2.1 5.89S 151.32E 0 3.8,3.5 ¶17206249
IDC Error ellipse: s-maj=146.1km s-min=29.0km az=126.0.
IDC VI 16 03 36 13.9–3.7 5.71S 150.59E 0 3.7,3.5 ¶17206250
IDC Error ellipse: s-maj=144.2km s-min=48.4km az=118.0.
IDC VI 16 03 40 51.1–4.3 5.43S 150.10E 0 3.8,3.5 ¶17206251
IDC Error ellipse: s-maj=186.5km s-min=48.6km az=117.0.
IDC VI 16 03 49 49.5–3.6 5.77S 151.13E 0 4.0,3.8 ¶17206253
IDC Error ellipse: s-maj=140.2km s-min=48.1km az=118.0.
IDC VI 16 03 56 59.1–4.0 5.54S 150.65E 0 3.6,3.5s ¶17206254
IDC Error ellipse: s-maj=170.5km s-min=49.0km az=117.0.
ISC VI 16 03 58 23.8–.43 5.92S–.05 151.24E–.06 43 4.7b,3.8s 79 2-156
IDC VI 16 03 58 16.9–.63 5.85S 151.40E 0 4.4,4.3 ¶16617375
NEIC VI 16 03 58 18.9–.40 5.86S 151.25E 10 5.1b,4.3
BJI VI 16 03 58 19.2 6.00S 151.40E 29 4.9b,4.9b
ISCJB VI 16 03 58 21.6–.36 5.90S–.04 151.26E–.06 43 4.6b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 16 04 06 51.9–4.0 5.77S 151.12E 0 3.6,3.3 ¶17206255
IDC Error ellipse: s-maj=160.4km s-min=52.4km az=118.0.
IDC VI 16 04 07 28.0–1.9 5.62S 151.36E 0 4.3,4.1 ¶17206258
IDC Error ellipse: s-maj=103.5km s-min=24.3km az=129.0.
IDC VI 16 04 08 39.6–1.9 5.63S 151.27E 0 4.4,4.2 ¶17206259
IDC Error ellipse: s-maj=102.8km s-min=24.9km az=129.0.
IDC VI 16 04 37 26.2–3.6 5.73S 151.19E 0 3.8,3.5 ¶17206260
IDC Error ellipse: s-maj=143.5km s-min=48.0km az=118.0.
IDC VI 16 04 43 31.3–3.7 5.70S 151.13E 0 4.0,3.7b ¶17206261
IDC Error ellipse: s-maj=114.9km s-min=53.0km az=119.0.
IDC VI 16 04 47 06.6–3.8 5.68S 151.01E 0 3.5,3.3 ¶17206262
IDC Error ellipse: s-maj=160.5km s-min=49.5km az=118.0.
IDC VI 16 04 49 18.6–2.0 5.64S 151.22E 0 3.9,3.6 ¶17206263
IDC Error ellipse: s-maj=127.5km s-min=28.0km az=126.0.
IDC VI 16 04 53 16.1–1.8 5.52S 151.06E 0 4.3,4.1 ¶17206264
IDC Error ellipse: s-maj=99.0km s-min=24.4km az=128.0.
IDC VI 16 04 59 17.2–2.0 5.79S 151.32E 0 4.1,3.9 ¶17206265
IDC Error ellipse: s-maj=107.2km s-min=27.7km az=129.0.
IDC VI 16 05 12 51.7–3.7 5.63S 150.95E 0 4.0,3.8 ¶17206267
IDC Error ellipse: s-maj=114.6km s-min=52.5km az=119.0.
ISC VI 16 05 24 38.5–1.2 6.0S–.20 151.5E–.10 41 4.1b 12 5-149
IDC VI 16 05 24 32.9–1.9 5.76S 151.38E 0 4.3,4.0 ¶16730665
NEIC VI 16 05 24 34.1–.96 5.83S 151.47E 10 4.2b,4.0
ISCJB VI 16 05 24 36.8–1.1 6.1S–.20 151.48E–.09 41 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC VI 16 05 28 31.0–3.8 5.61S 150.89E 0 3.9,3.8 ¶17206270
IDC Error ellipse: s-maj=122.1km s-min=53.8km az=120.0.
IDC VI 16 05 32 09.7–4.1 5.44S 150.62E 0 3.5,3.3 ¶17206272
IDC Error ellipse: s-maj=148.9km s-min=54.9km az=116.0.
IDC VI 16 05 43 46.9–4.9 5.26S 150.29E 0 3.5,3.2 ¶17206275
IDC Error ellipse: s-maj=211.4km s-min=55.2km az=116.0.
IDC VI 16 06 01 56.1–8.1 6.03S 150.79E 110–55 4.1,3.9 ¶17206276
IDC Error ellipse: s-maj=95.8km s-min=55.0km az=122.0.
ISC VI 16 06 08 42.1–.63 5.86S–.09 151.0E–.10 43 4.3b,4.0s 30 5-152
NEIC VI 16 06 08 37.0–.39 5.83S 151.16E 10 4.7b,4.0s ¶16645042
GCMT VI 16 06 08 37.0–.30 6.30S 150.96E 24–0 5.0W,4.0s
ISCJB VI 16 06 08 40.1–.53 5.93S–.07 151.0E–.10 43 4.3b,4.0s
IDC VI 16 06 08 42.6–3.4 5.92S 151.02E 49–31 4.3,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=7.9km az=106.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c60; s74,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.64±.20 $M_{\theta\theta}$-3.35±.12; $M_{\phi\phi}$-0.29±.12; $M_{r\theta}$1.65±.14; $M_{\theta\phi}$-0.70±.09; $M_{\phi r}$-0.61±.18; Best double couple: NP1:ϕ_s90.00000°,δ58.00000°,λ104.00000°. NP2:ϕ_s246.00000°,δ35.00000°,λ70.00000°. Principal axes: T 4.1380,Plg74.0000°,Azm37.0000°; N -0.3300,Plg11.0000°,Azm263.0000°; P -3.8090,Plg12.0000°,Azm171.0000° $M_0$3.97300×10^{16}
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=7.2km az=26.2.
IDC Error ellipse: s-maj=23.5km s-min=18.4km az=84.0.
IDC VI 16 06 16 06.1–2.1 5.80S 151.03E 0 3.8,3.5 ¶17206277
IDC Error ellipse: s-maj=131.8km s-min=30.7km az=125.0.
ISC VI 16 06 26 58.6–.95 5.8S–.10 151.2E–.20 43 4.0b 16 5-149
NEIC VI 16 06 26 53.5–1.0 5.80S 151.35E 10 4.3b ¶16730676
ISCJB VI 16 06 26 56.9–.83 5.8S–.10 151.0E–.20 43 4.0b,3.3s
IDC VI 16 06 27 00.3–5.6 5.83S 151.11E 58–47 4.0,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=36.4km s-min=14.2km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=26.5km s-min=9.3km az=31.0.
IDC Error ellipse: s-maj=47.0km s-min=22.4km az=106.0.
ISC VI 16 06 55 54.6–.38 5.99S–.05 151.43E–.06 41 4.7b,4.0s 124 2-156
NEIC VI 16 06 55 50.1–.26 5.84S 151.33E 10 4.9b,4.0s ¶16603777
BJI VI 16 06 55 51.9 5.91S 151.31E 30 4.9b,4.9s
ISCJB VI 16 06 55 53.0–.29 5.93S–.03 151.27E–.05 41 4.7b,3.9s
IDC VI 16 06 55 53.0–6.8 5.81S 151.29E 30–47 4.5,4.5
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.6km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.3km az=19.6.
IDC Error ellipse: s-maj=19.9km s-min=13.2km az=81.0.
IDC VI 16 06 59 25.4–2.1 5.88S 151.13E 0 4.1,4.0 ¶17206278
IDC Error ellipse: s-maj=145.5km s-min=28.8km az=126.0.
ISC VI 16 07 05 25.1–.42 5.84S–.05 151.15E–.07 43 4.6b,3.7s 60 2-151
NEIC VI 16 07 05 20.1–.41 5.77S 151.10E 10 4.6b,3.7s ¶16617377
ISCJB VI 16 07 05 23.0–.37 5.82S–.05 151.14E–.06 43 4.5b,3.7s
IDC VI 16 07 05 24.2–3.8 5.80S 151.21E 41–32 4.4,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.3km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.3km az=35.0.
IDC Error ellipse: s-maj=21.3km s-min=16.4km az=71.0.
IDC VI 16 07 28 53.0–3.7 5.64S 151.08E 0 3.6,3.3 ¶17206282
IDC Error ellipse: s-maj=153.7km s-min=48.4km az=118.0.
IDC VI 16 07 31 21.7–3.5 6.00S 151.52E 0 3.5,3.3 ¶17206283
IDC Error ellipse: s-maj=140.7km s-min=49.8km az=119.0.
IDC VI 16 07 42 12.4–3.5 5.60S 151.07E 0 3.9,3.7 ¶17206285
IDC Error ellipse: s-maj=110.9km s-min=50.2km az=120.0.
IDC VI 16 07 48 23.6–3.4 5.02S 151.40E 0 3.9,3.7 ¶17206287
IDC Error ellipse: s-maj=116.5km s-min=46.8km az=120.0.
IDC VI 16 07 49 32.2–1.9 5.73S 151.14E 0 4.1,3.9 ¶17206288
IDC Error ellipse: s-maj=102.8km s-min=26.0km az=129.0.
IDC VI 16 08 09 43.0–2.0 5.41S 150.86E 0 3.8,3.5 ¶17206289
IDC Error ellipse: s-maj=139.2km s-min=28.5km az=126.0.
IDC VI 16 08 20 20.6–8.9 5.94S 150.53E 104–60 3.5,3.3 ¶17206291
IDC Error ellipse: s-maj=119.1km s-min=59.8km az=120.0.
IDC VI 16 08 47 07.5–3.5 6.24S 151.49E 0 3.5,3.2 ¶17206294
IDC Error ellipse: s-maj=139.8km s-min=48.4km az=120.0.
IDC VI 16 08 51 23.1–3.8 5.70S 151.04E 0 3.6,3.3 ¶17206295
IDC Error ellipse: s-maj=157.4km s-min=48.5km az=118.0.
IDC VI 16 09 09 34.5–2.0 5.81S 151.18E 0 4.4,4.1b ¶17206297
IDC Error ellipse: s-maj=103.5km s-min=27.5km az=129.0.
IDC VI 16 09 18 29.9–3.5 6.15S 151.03E 0 3.5,3.2 ¶17206300
IDC Error ellipse: s-maj=150.3km s-min=46.4km az=120.0.
IDC VI 16 09 35 39.0–3.7 5.85S 150.84E 0 3.6,3.3 ¶17206302
IDC Error ellipse: s-maj=145.9km s-min=49.2km az=119.0.
IDC VI 16 09 50 00.8–3.6 6.02S 150.37E 0 3.7,3.4 ¶17206303
IDC Error ellipse: s-maj=139.4km s-min=46.0km az=118.0.
IDC VI 16 09 56 52.6–6.5 5.97S 151.26E 61–52 3.8,3.8 ¶17206304
IDC Error ellipse: s-maj=96.2km s-min=35.9km az=130.0.
IDC VI 16 10 02 19.9–2.8 6.86S 151.15E 0 4.1,3.9 ¶17206305
IDC Error ellipse: s-maj=100.1km s-min=38.5km az=133.0.
IDC VI 16 10 16 23.7–9.3 5.99S 151.27E 66–65 4.0,4.0 ¶17206307
IDC Error ellipse: s-maj=94.2km s-min=59.0km az=127.0.
IDC VI 16 10 36 07.2–3.9 6.63S 150.44E 0 3.8,3.5 ¶17206308
IDC Error ellipse: s-maj=136.7km s-min=50.5km az=119.0.
IDC VI 16 11 29 04.5–3.6 5.90S 150.54E 0 3.6,3.3 ¶17206310
IDC Error ellipse: s-maj=148.5km s-min=46.3km az=118.0.
IDC VI 16 11 56 57.7–3.9 5.94S 150.92E 0 3.5,3.2 ¶17206315
IDC Error ellipse: s-maj=155.1km s-min=51.3km az=119.0.
IDC VI 16 12 07 42.6–5.0 5.44S 150.90E 48–47 4.2,4.2 ¶17206317
IDC Error ellipse: s-maj=90.3km s-min=33.4km az=126.0.
IDC VI 16 12 25 43.0–3.2 5.50S 150.95E 0 3.9,3.8 ¶17206319
IDC Error ellipse: s-maj=132.8km s-min=39.4km az=123.0.
IDC VI 16 13 29 42.2–2.0 5.82S 151.18E 0 4.1,3.9 ¶17206322
IDC Error ellipse: s-maj=125.5km s-min=26.3km az=127.0.
IDC VI 16 14 23 24.6–3.0 5.85S 150.95E 0 3.5,3.4 ¶17206325
IDC Error ellipse: s-maj=135.5km s-min=36.6km az=125.0.
IDC VI 16 15 41 17.9–3.6 5.71S 151.01E 0 3.7,3.4 ¶17206328
IDC Error ellipse: s-maj=147.9km s-min=47.7km az=118.0.

IDC VI 16 15 45 58.8–8.0 5.85S 150.79E 88–56 3.8,3.6
¶17206329

IDC Error ellipse: s-maj=96.8km s-min=54.5km az=126.0.
IDC VI 16 16 12 19.6–6.3 5.93S 151.33E 54–52 3.9,3.9
¶17206330

IDC Error ellipse: s-maj=102.3km s-min=35.7km az=128.0.
ISC VI 16 16 44 51.8–1.0 5.57S–.09 150.7E–.10 35 3.9b 19 2-148
IDC VI 16 16 44 44.1–3.7 5.89S 151.34E 0 4.0,3.8 **¶16730735**
ISCJB VI 16 16 44 49.5–.87 5.56S–.10 150.7E–.10 35 3.9b,3.8
NEIC VI 16 16 44 51.0–1.3 5.56S 150.73E 39–15 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=155.4km s-min=43.8km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=21.1km s-min=9.2km az=34.9.
NEIC Event type se. Error ellipse: s-maj=23.6km s-min=12.2km az=127.0.
ISC VI 16 16 57 07.6–.52 5.89S–.07 151.27E–.08 41 4.8b 56 2-149
IDC VI 16 16 57 02.2–1.3 5.81S 151.36E 0 4.2,4.0 **¶16730738**
ISCJB VI 16 16 57 06.4–.37 5.92S–.04 151.27E–.06 41 4.7b,3.2s
NEIC VI 16 16 57 09.6–1.0 5.92S 151.28E 57–9 5.0b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=50.3km s-min=18.8km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.2km az=11.6.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=98.0.
IDC VI 16 18 38 19.3–9.3 5.74S 151.03E 53–67 3.5,3.5
¶17206338

IDC Error ellipse: s-maj=110.7km s-min=55.5km az=124.0.
IDC VI 16 19 37 29.5–3.7 5.78S 150.92E 0 3.5s,3.5
¶17206343

IDC Error ellipse: s-maj=154.6km s-min=47.7km az=118.0.
ISC VI 16 19 49 51.3–2.1 6.0S–.70 151.6E–.70 41 4.2b 8 6-150
IDC VI 16 19 49 46.2–1.9 5.69S 151.26E 0 4.4,4.2 **¶16730750**
NEIC VI 16 19 49 47.2–1.8 5.80S 151.43E 10 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=98.3km s-min=24.0km az=130.0.
NEIC Event type se. Error ellipse: s-maj=120.0km s-min=17.3km az=130.0.
ISC VI 16 20 39 20.0–1.2 5.6S–.20 150.9E–.20 65 4.0b 12 5-149
NEIC VI 16 20 39 13.1–1.2 5.39S 150.94E 10 4.3b **¶16730753**
ISCJB VI 16 20 39 18.9–1.0 5.5S–.10 150.8E–.20 65 3.8b
IDC VI 16 20 39 19.6–5.4 5.57S 150.88E 58–46 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=43.2km s-min=16.6km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=34.1km s-min=11.6km az=33.0.
IDC Error ellipse: s-maj=51.1km s-min=28.7km az=118.0.
IDC VI 16 20 45 51.9–8.3 6.14S 151.14E 118–55 3.8,3.5
¶17206346

IDC Error ellipse: s-maj=95.2km s-min=59.0km az=126.0.
ISC VI 16 20 52 02.6–1.3 5.8S–.20 151.4E–.30 35 4.1b 11 5-149
IDC VI 16 20 51 57.6–1.4 5.73S 151.29E 0 4.3,4.2 **¶16730755**
ISCJB VI 16 20 52 00.7–1.2 5.8S–.20 151.3E–.20 35 4.1b,4.2
NEIC VI 16 20 52 02.0–8.5 5.80S 151.35E 31–57 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=56.5km s-min=22.8km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=36.3km s-min=13.4km az=43.5.
NEIC Event type se. Error ellipse: s-maj=36.0km s-min=28.8km az=129.0.
ISC VI 16 21 12 41.2–.85 5.6S–.10 150.8E–.10 65 4.2b 16 5-149
NEIC VI 16 21 12 34.6–.56 5.40S 150.67E 10 4.7b **¶16714854**
ISCJB VI 16 21 12 39.9–.73 5.7S–.10 150.82E–.09 65 4.3b
IDC VI 16 21 12 43.7–5.1 5.89S 151.07E 91–42 4.2,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=10.3km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=10.3km az=143.7.
IDC Error ellipse: s-maj=70.0km s-min=31.8km az=132.0.
ISC VI 16 21 33 56.8–.73 5.72S–.10 151.3E–.10 35 4.2b 20 5-149
NEIC VI 16 21 33 53.0–.57 5.64S 151.22E 10 4.4b **¶16714856**
ISCJB VI 16 21 33 54.7–.58 5.75S–.08 151.28E–.08 35 4.4b,3.1s
IDC VI 16 21 33 57.2–5.8 5.76S 151.28E 41–48 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=10.5km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=8.4km az=42.4.
IDC Error ellipse: s-maj=53.8km s-min=31.4km az=126.0.
IDC VI 16 21 42 24.0–8.0 6.08S 150.78E 112–52 3.8,3.6
¶17206348

IDC Error ellipse: s-maj=100.5km s-min=60.8km az=113.0.
ISC VI 16 22 23 02.9–.85 5.8S–.10 150.9E–.10 43 4.2b 17 5-149
NEIC VI 16 22 22 58.3–.69 5.73S 150.85E 10 4.4b **¶16714858**
ISCJB VI 16 22 23 01.4–.79 5.80S–.09 150.8E–.10 43 4.5b
IDC VI 16 22 23 05.5–7.8 6.06S 151.01E 74–57 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=11.4km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=10.0km az=31.7.
IDC Error ellipse: s-maj=93.2km s-min=49.0km az=128.0.
ISC VI 16 23 18 08.5–1.3 6.1S–.20 150.9E–.20 100 3.8b 12 5-149
IDC VI 16 23 18 11.2–4.7 6.25S 150.79E 131–36 4.0,3.7 **¶17206353**
ISC Event type ke.
IDC Error ellipse: s-maj=43.0km s-min=21.3km az=94.0.
ISC VI 16 23 35 05.8–.73 6.0S–.10 151.5E–.10 41 4.2b 14 5-92
IDC VI 16 23 35 00.5–2.1 5.76S 151.21E 0 4.4,4.1 **¶16714859**
NEIC VI 16 23 35 01.8–.42 5.96S 151.42E 10 4.6b,4.1
ISCJB VI 16 23 35 03.7–.62 6.05S–.09 151.47E–.09 41 4.5b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 17 00 15 13.4–.72 5.7S–.10 151.4E–.10 57 4.0b,3.4s 24 6-124
NEIC VI 17 00 15 07.7–.72 5.55S 151.39E 10 4.2b,3.4s **¶16714862**
ISCJB VI 17 00 15 12.1–.62 5.69S–.09 151.3E–.10 57 4.2b,3.4s
IDC VI 17 00 15 14.8–5.2 5.74S 151.35E 70–45 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=25.7km s-min=10.9km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=20.9km s-min=7.9km az=33.2.
IDC Error ellipse: s-maj=40.1km s-min=22.9km az=99.0.
IDC VI 17 02 30 32.7–2.0 5.79S 151.15E 0 4.0,3.7
¶17206361

IDC Error ellipse: s-maj=100.4km s-min=34.6km az=133.0.
ISC VI 17 02 49 08.0–2.0 5.9S–.40 151.2E–.50 43 4.1b 11 5-149
NEIC VI 17 02 49 03.7–1.4 5.80S 151.08E 10 4.1b **¶16713633**
ISCJB VI 17 02 49 06.8–1.6 5.8S–.30 151.1E–.40 43 4.1b
IDC VI 17 02 49 10.1–6.0 5.71S 150.93E 54–50 4.0,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=65.7km s-min=13.0km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=72.8km s-min=12.2km az=39.1.
IDC Error ellipse: s-maj=95.6km s-min=33.9km az=131.0.
IDC VI 17 02 52 42.2–4.0 7.31S 149.32E 0 3.7,3.4
¶17206363

IDC Error ellipse: s-maj=141.7km s-min=51.6km az=119.0.
ISC VI 17 03 12 17.1–.24 6.00S–.04 151.21E–.04 43 5.1b,4.9s 522 2-166
IDC VI 17 03 12 10.1–.36 5.88S 151.32E 0 4.8,4.7 **¶16720938**
BJI VI 17 03 12 11.3 6.25S 151.56E 36 5.2b,4.9b
GCMT VI 17 03 12 12.3–.10 6.14S 151.20E 12 5.3W,4.9b
NEIC VI 17 03 12 12.3–.13 5.93S 151.18E 10 5.2b,4.9s
ISCJB VI 17 03 12 15.5–.14 5.99S–.02 151.11E–.03 43 5.0b,4.8s
MOS VI 17 03 12 15.2–1.1 5.79S 151.05E 33 5.3b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=78.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c156; s127,c224; Duration: 1$\mathfrak{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.96±.01 $M_{\theta\theta}$0.77±.01; $M_{\phi\phi}$0.19±.01; $M_{r\theta}$-0.08±.03; $M_{\theta\phi}$-0.40±.01; $M_{\phi r}$0.21±.04; Best double couple: NP1:ϕ_s126.00000°,δ51.00000°,λ-79.00000°. NP2:ϕ_s288.00000°,δ41.00000°,λ-104.00000°. Principal axes: T 0.9870,Plg5.0000°,Azm208.0000°; N 0.0110,Plg9.0000°,Azm299.0000°; P -0.9990,Plg80.0000°,Azm89.0000° $M_0$0.99300×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.3km az=27.9.
MOS Error ellipse: s-maj=9.1km s-min=6.5km az=87.3.
IDC VI 17 03 17 12.8–1.9 5.54S 150.97E 0 4.3,4.0
¶17206365

IDC Error ellipse: s-maj=110.5km s-min=26.8km az=129.0.
ISC VI 17 03 34 27.0–.41 6.04S–.07 151.23E–.08 43 4.6b 105 2-156
IDC VI 17 03 34 20.5–.58 5.90S 151.26E 0 4.6,4.4 **¶16720939**
NEIC VI 17 03 34 22.2–.22 5.97S 151.31E 10 4.7b,4.4
ISCJB VI 17 03 34 25.3–.29 6.02S–.05 151.23E–.06 43 4.5b,4.4
DJA VI 17 03 34 29.5–3.8 6S–21 151E–18 75–23 4.9b,4.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 17 03 43 50.7–.42 5.84S–.07 151.23E–.08 43 4.5b,3.6s 65 5-156
IDC VI 17 03 43 44.4–.52 5.81S 151.31E 0 4.5,4.3 **¶16713634**
NEIC VI 17 03 43 45.8–.25 5.72S 151.34E 10 4.7b,4.3
ISCJB VI 17 03 43 49.1–.32 5.82S–.05 151.25E–.06 43 4.5b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 17 07 25 31.9–3.9 5.66S 151.08E 0 3.5,3.3
¶17206370

IDC Error ellipse: s-maj=156.2km s-min=51.8km az=118.0.
IDC VI 17 08 41 51.6–2.0 5.63S 151.23E 0 3.9,3.7
¶17206375

IDC Error ellipse: s-maj=107.2km s-min=27.5km az=129.0.
IDC VI 17 12 55 50.3–2.0 5.70S 151.16E 0 4.0,3.8
¶17206388

IDC Error ellipse: s-maj=106.9km s-min=27.9km az=128.0.
IDC VI 17 16 30 33.7–8.0 5.87S 150.55E 115–54 3.6,3.4
¶17206399

IDC Error ellipse: s-maj=93.8km s-min=56.3km az=120.0.
IDC VI 17 17 28 15.3–8.5 5.88S 150.73E 94–59 3.6,3.5
¶17206402

IDC Error ellipse: s-maj=107.9km s-min=57.3km az=124.0.
IDC VI 17 18 26 55.4–9.8 5.91S 151.15E 61–70 3.5,3.5
¶17206404

IDC Error ellipse: s-maj=117.6km s-min=60.4km az=124.0.
ISC VI 17 19 16 20.0–.73 5.3S–.10 150.52E–.10 10 4.3b 25 5-148
IDC VI 17 19 16 16.8–1.5 5.65S 151.04E 0 4.3,4.2 **¶16730822**
ISCJB VI 17 19 16 18.0–.61 5.37S–.09 150.58E–.09 10 4.2b,3.3s
NEIC VI 17 19 16 20.0–.67 5.33S 150.51E 10 4.4b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=59.2km s-min=20.8km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=8.8km az=135.1.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=12.1km az=143.0.
IDC VI 17 20 24 45.4–4.3 5.83S 151.31E 0 3.3,3.1
¶17206415

IDC Error ellipse: s-maj=182.2km s-min=55.5km az=119.0.
IDC VI 17 22 24 48.3–4.0 5.84S 151.16E 0 3.6,3.3
¶17206418

IDC Error ellipse: s-maj=174.1km s-min=49.7km az=118.0.
IDC VI 17 22 26 55.7–3.7 6.04S 151.51E 0 3.6,3.4
¶17206419

IDC Error ellipse: s-maj=159.3km s-min=49.4km az=120.0.
IDC VI 17 23 43 24.8–3.6 5.78S 151.18E 0 3.9,3.6
¶17206420

IDC Error ellipse: s-maj=143.0km s-min=48.6km az=118.0.
IDC VI 17 23 53 47.4–3.8 5.58S 151.00E 0 3.4,3.2
¶17206421

IDC Error ellipse: s-maj=164.5km s-min=47.3km az=117.0.
IDC VI 17 23 57 48.4–3.9 5.63S 151.01E 0 3.5,3.3
¶17206422

IDC Error ellipse: s-maj=165.5km s-min=48.3km az=118.0.
IDC VI 18 01 52 24.8–2.6 6.53S 148.26E 0 3.8,3.7
¶17206430

IDC Error ellipse: s-maj=77.5km s-min=32.5km az=103.0.
IDC VI 18 02 54 26.0–2.3 5.81S 151.34E 0 3.6,3.3
¶17206433

IDC Error ellipse: s-maj=160.4km s-min=29.3km az=126.0.
IDC VI 18 03 20 09.7–1.9 5.75S 151.38E 0 4.1,3.9
¶17206434

IDC Error ellipse: s-maj=106.8km s-min=26.3km az=129.0.
IDC VI 18 04 21 51.1–4.2 5.67S 151.06E 0 3.6,3.3
¶17206437

IDC Error ellipse: s-maj=180.6km s-min=51.5km az=118.0.
IDC VI 18 04 44 34.9–2.0 5.50S 150.69E 0 4.1,3.8b
¶17206439

IDC Error ellipse: s-maj=133.3km s-min=28.9km az=125.0.
IDC VI 18 05 20 07.7–3.7 5.83S 151.13E 0 3.9,3.6
¶17206440

IDC Error ellipse: s-maj=143.9km s-min=49.9km az=118.0.
IDC VI 18 06 16 12.9–3.1 6.49S 148.20E 0 3.7,3.6
¶17206443

IDC Error ellipse: s-maj=80.1km s-min=33.1km az=104.0.
IDC VI 18 06 18 50.5–2.0 5.53S 150.67E 0 3.9,3.7
¶17206444

IDC Error ellipse: s-maj=128.8km s-min=24.6km az=125.0.
IDC VI 18 09 44 50.5–2.1 5.74S 151.27E 0 3.6,3.4
¶17206452

IDC Error ellipse: s-maj=131.9km s-min=30.6km az=126.0.
IDC VI 18 14 26 53.7–1.8 5.71S 151.28E 0 4.1,3.9
¶17206466

IDC Error ellipse: s-maj=101.6km s-min=22.7km az=130.0.
IDC VI 18 14 41 32.7–7.9 6.09S 150.99E 97–54 3.6,3.4
¶17206467

IDC Error ellipse: s-maj=95.4km s-min=54.1km az=127.0.
IDC VI 18 14 53 15.2–8.0 5.89S 150.46E 114–54 3.4,3.2
¶17206468

IDC Error ellipse: s-maj=116.6km s-min=56.1km az=121.0.
ISC VI 18 15 48 36.8–.35 5.92S–.05 151.28E–.06 41 4.7b,3.6s 152 2-156
IDC VI 18 15 48 30.3–.47 5.84S 151.30E 0 4.6,4.5 **¶16720945**
ISCJB VI 18 15 48 34.8–.25 5.93S–.03 151.26E–.05 41 4.6b,3.6s
BJI VI 18 15 48 34.3 5.90S 151.20E 46 5.0b,4.9s
NEIC VI 18 15 48 37.1–.78 5.91S 151.23E 47–7 4.9b,4.9s
DJA VI 18 15 48 44.9–2.3 6S–10 151E–14 92–16 5.3b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 18 17 29 44.1–8.5 6.07S 150.92E 92–59 3.8,3.6
¶17206477

IDC Error ellipse: s-maj=108.6km s-min=55.7km az=123.0.
IDC VI 19 05 54 47.0–3.4 5.74S 151.04E 0 3.8,3.6
¶17206510

IDC Error ellipse: s-maj=133.3km s-min=46.9km az=118.0.
IDC VI 19 12 26 42.5–3.5 5.85S 150.97E 0 3.8,3.6
¶17206526

IDC Error ellipse: s-maj=139.6km s-min=46.4km az=118.0.
IDC VI 19 22 23 19.3–5.5 6.20S 151.29E 102–42 3.9,3.7
¶17206553

IDC Error ellipse: s-maj=91.0km s-min=32.1km az=130.0.
IDC VI 20 00 10 13.5–3.7 5.68S 150.84E 0 3.8,3.6
¶17206555

IDC Error ellipse: s-maj=148.5km s-min=48.2km az=118.0.
IDC VI 20 01 19 54.5–1.9 5.70S 151.12E 0 4.2,3.9b
¶17206558

IDC Error ellipse: s-maj=102.8km s-min=27.3km az=128.0.
IDC VI 20 03 26 19.2–1.8 5.45S 151.43E 0 4.3,4.1
¶17206570

IDC Error ellipse: s-maj=105.6km s-min=23.0km az=129.0.
ISC VI 20 11 44 22.8–1.4 5.2S–.30 150.3E–.40 35 3.9b 10 5-148
IDC VI 20 11 44 17.3–1.6 5.22S 150.40E 0 4.2,4.0 **¶17206593**

ISCJB VI 20 11 44 21.0–1.3 5.2S–.20 150.3E–.40 33 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC VI 20 14 43 33.8–3.9 5.61S 151.01E 0 3.7,3.4
¶17206605

IDC Error ellipse: s-maj=138.5km s-min=52.8km az=117.0.
IDC VI 20 20 27 13.8–2.1 6.12S 151.47E 0 3.7,3.4
¶17206623

IDC Error ellipse: s-maj=134.6km s-min=30.1km az=126.0.
IDC VI 21 01 11 55.8–3.3 5.89S 151.07E 0 4.1,3.9
¶17206640

IDC Error ellipse: s-maj=109.3km s-min=47.2km az=121.0.
IDC VI 21 02 31 22.1–3.4 5.64S 151.02E 0 4.1,3.9
¶17206648

IDC Error ellipse: s-maj=114.4km s-min=47.7km az=120.0.
ISC VI 21 04 29 42.9–.64 5.96S–.10 151.3E–.10 41 4.3b 28 5-149
NEIC VI 21 04 29 38.4–.35 5.91S 151.40E 10 4.5b **¶16731102**
ISCJB VI 21 04 29 41.3–.47 5.96S–.09 151.28E–.10 41 4.3b,3.9s
IDC VI 21 04 29 43.4–2.7 5.98S 151.31E 46–24 4.3,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.5km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=7.8km az=39.5.
IDC Error ellipse: s-maj=22.2km s-min=13.5km az=124.0.
ISC VI 21 11 46 13.7–1.1 5.81S–.10 150.0E–.30 135 4.0b 21 5-148
NEIC VI 21 11 46 11.0–2.0 5.82S 150.11E 113–17 4.3b **¶16731134**
IDC VI 21 11 46 11.6–3.2 5.84S 149.93E 115–26 4.3,4.0
ISCJB VI 21 11 46 12.3–1.2 5.8S–.10 149.8E–.20 135 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 21 23 29 48.9–3.2 5.77S 151.08E 0 4.3,4.1
¶17206709

IDC Error ellipse: s-maj=108.3km s-min=44.9km az=121.0.
ISC VI 22 04 44 13.1–.69 4.1S–.10 152.8E–.10 35 4.1b 22 8-150
ISCJB VI 22 04 44 11.3–.64 4.09S–.09 152.7E–.10 33 4.0b,3.2s **¶16731198**
IDC VI 22 04 44 14.4–2.6 4.14S 152.71E 45–23 4.1,4.0
NEIC VI 22 04 44 17.4–2.5 4.21S 152.69E 74–22 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=8.6km az=36.9.
IDC Error ellipse: s-maj=25.0km s-min=16.2km az=110.0.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=15.1km az=92.0.
IDC VI 22 16 43 01.6–3.1 5.76S 151.12E 0 3.9,3.8
¶17206765

IDC Error ellipse: s-maj=110.9km s-min=40.6km az=126.0.
ISC VI 23 03 46 40.6–1.4 5.7S–.30 151.0E–.40 65 4.1b 8 5-149
IDC VI 23 03 46 32.1–1.4 5.57S 151.08E 0 4.4,4.2 **¶17206795**
ISCJB VI 23 03 46 39.0–1.3 5.7S–.30 151.0E–.30 65 3.9b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC VI 23 05 34 47.1–.72 4.69S–.10 152.8E–.10 55 4.1b 24 7-150
ISCJB VI 23 05 34 45.7–.61 4.68S–.08 152.69E–.10 55 4.2b,3.6s **¶16731287**
IDC VI 23 05 34 51.9–3.8 4.83S 152.64E 98–34 4.2,4.0
NEIC VI 23 05 34 52.7–1.8 4.83S 152.60E 105–15 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=8.9km az=34.2.
IDC Error ellipse: s-maj=21.2km s-min=17.9km az=72.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=10.9km az=67.0.
IDC VI 23 15 54 27.4–1.8 6.62S 148.09E 0 3.7,3.5
¶17206822

IDC Error ellipse: s-maj=72.0km s-min=26.6km az=120.0.
IDC VI 23 20 45 26.0–3.3 5.56S 150.67E 0 3.7,3.6
¶17206831

IDC Error ellipse: s-maj=135.5km s-min=44.3km az=117.0.
ISC VI 23 21 29 11.9–.84 4.1S–.10 152.6E–.20 35 4.2b 20 8-82
IDC VI 23 21 29 06.6–1.9 4.07S 152.62E 0 4.0,3.8 **¶16731328**
ISCJB VI 23 21 29 10.0–.64 4.05S–.08 152.5E–.10 33 4.3b,3.8
NEIC VI 23 21 29 12.0–.42 4.09S 152.56E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=58.8km s-min=24.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=10.7km az=18.7.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.2km az=108.0.
IDC VI 24 19 16 40.1–6.0 5.77S 151.10E 53–51 3.8,3.8
¶17206886

IDC Error ellipse: s-maj=100.7km s-min=33.3km az=129.0.
IDC VI 26 14 25 13.4–7.6 6.42S 153.29E 77–57 3.4,3.4
¶17207001

IDC Error ellipse: s-maj=142.8km s-min=31.5km az=126.0.
IDC VI 29 05 40 40.3–1.7 5.66S 149.40E 0 4.0,3.8
¶17207168

IDC Error ellipse: s-maj=87.7km s-min=24.2km az=124.0.
IDC VI 30 05 28 18.7–3.5 5.51S 150.45E 0 4.0s,4.0
¶17207232

IDC Error ellipse: s-maj=141.6km s-min=45.8km az=117.0.
ISC VI 30 14 00 11.5–1.1 5.8S–.20 151.2E–.20 43 4.1b 16 5-149
IDC VI 30 14 00 04.2–1.1 5.84S 151.47E 0 4.4,4.2 **¶16731857**
ISCJB VI 30 14 00 09.1–1.1 5.9S–.20 151.3E–.20 43 4.1b,4.2
NEIC VI 30 14 00 09.6–.82 5.90S 151.43E 35 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=45.4km s-min=18.4km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=34.4km s-min=10.3km az=35.2.
NEIC Event type se. Error ellipse: s-maj=30.2km s-min=10.2km az=118.0.
IDC VI 30 14 08 12.8–3.1 5.75S 151.38E 0 3.8,3.7
¶17207258

IDC Error ellipse: s-maj=108.2km s-min=42.5km az=124.0.
IDC VI 30 14 34 36.0–4.2 5.65S 150.82E 0 3.4,3.2
¶17207260

IDC Error ellipse: s-maj=190.5km s-min=48.9km az=118.0.
IDC VI 30 20 13 59.0–8.8 5.79S 150.96E 62–63 3.9,3.8
¶17207273

IDC Error ellipse: s-maj=95.7km s-min=54.9km az=126.0.

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ISC I 01 09 20 19.5–.83 4.4S–.10 154.0E–.10 35 4.2b 24 8-151
ISCJB I 01 09 20 18.3–.66 4.35S–.09 153.9E–.10 33 4.1b **¶16002848**
NEIC I 01 09 20 27.0–2.7 4.46S 153.67E 92–21 4.3b
IDC I 01 09 20 27.0–5.2 4.50S 153.73E 95–42 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=8.0km az=35.0.
NEIC Event type se. Error ellipse: s-maj=24.6km s-min=12.1km az=84.0.
IDC Error ellipse: s-maj=34.4km s-min=18.2km az=88.0.
ISC I 02 23 39 15.6–2.8 6.6S–.30 154.9E–.50 56 3.7b 8 24-153
IDC I 02 23 39 08.0–2.8 6.58S 154.88E 0 4.5s,4.5 **¶17189268**
ISCJB I 02 23 39 12.5–3.1 6.7S–.30 155.1E–.60 56 4.4s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC I 04 07 57 31.3–.58 10.48S–.07 161.58E–.09 100 4.2b 33 2-115
ISCJB I 04 07 57 29.9–.51 10.51S–.05 161.58E–.08 100 4.1b **¶15961493**
IDC I 04 07 57 30.8–.86 10.52S 161.54E 93–6 4.2,4.1
NEIC I 04 07 57 32.5–1.2 10.43S 161.53E 108–10 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=7.1km az=157.6.
IDC Error ellipse: s-maj=14.1km s-min=10.9km az=34.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=8.7km az=94.0.
IDC I 04 08 22 45.4–2.4 6.60S 154.94E 0 3.6,3.4
¶17189406

IDC Error ellipse: s-maj=92.2km s-min=40.2km az=121.0.
ISC I 04 13 16 21.7–.89 10.1S–.10 160.9E–.10 67 3.7b 12 1-100
IDC I 04 13 16 12.5–.96 10.13S 161.12E 0 4.0,3.9 **¶17189425**
ISCJB I 04 13 16 20.2–.77 10.15S–.09 160.89E–.09 67 3.5b,3.9
ISC Event type ke.
ISCJB Event type ke.

ISC I 04 16 36 56.5–.71 6.8S–.10 154.9E–.10 56 3.9b,3.2s 30 6-153
IDC I 04 16 36 48.3–.96 6.63S 155.03E 0 4.1,4.0 **¶15964346**
ISCJB I 04 16 36 55.2–.56 6.74S–.09 154.83E–.09 56 3.9b,3.3s
NEIC I 04 16 36 57.3–2.8 6.77S 154.88E 64–23 4.1b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=33.4km s-min=18.9km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=8.5km az=44.9.
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=14.5km az=100.0.
IDC I 06 09 59 00.4–1.2 6.87S 155.33E 0 4.5L,4.0
¶17189585

IDC Error ellipse: s-maj=34.1km s-min=28.6km az=119.0.
IDC I 09 12 19 58.7–5.5 9.74S 161.43E 66–40 3.6,3.5
¶17189761

IDC Error ellipse: s-maj=50.4km s-min=37.4km az=142.0.
ISC I 10 03 05 50.4–1.3 10.6S–.20 162.1E–.10 54 3.6b 8 2-96
IDC I 10 03 05 42.8–1.4 10.65S 162.28E 0 4.5L,4.0 **¶17189811**
ISCJB I 10 03 05 48.8–1.1 10.7S–.20 162.2E–.10 54 3.6b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 11 01 44 45.0–6.1 5.98S 155.87E 0 3.8,3.7b
¶17189887

IDC Error ellipse: s-maj=174.9km s-min=40.3km az=112.0.
IDC I 11 09 15 14.0–5.0 6.76S 155.70E 219–44 4.0,3.6
¶17189909

IDC Error ellipse: s-maj=38.8km s-min=21.9km az=118.0.
IDC I 14 06 37 49.0–1.2 9.71S 158.85E 0 3.5,3.4
¶17190138

IDC Error ellipse: s-maj=47.7km s-min=21.2km az=158.0.
ISC I 15 03 53 13.8–.63 6.7S–.10 154.9E–.10 56 4.4b,3.8s 50 6-153
ISCJB I 15 03 53 12.7–.58 6.67S–.09 154.80E–.08 56 4.4b,3.8s **¶16031143**
IDC I 15 03 53 16.8–4.9 6.61S 154.59E 75–42 4.3,4.2
NEIC I 15 03 53 17.9–2.6 6.72S 154.67E 86–23 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=7.7km az=139.5.
IDC Error ellipse: s-maj=27.3km s-min=19.4km az=96.0.
NEIC Event type se. Error ellipse: s-maj=19.8km s-min=14.3km az=96.0.
IDC I 15 04 00 45.9–3.8 7.43S 155.02E 0 3.9,3.6
¶17190226

IDC Error ellipse: s-maj=133.0km s-min=45.6km az=122.0.
ISC I 15 23 04 42.6–.53 7.21S–.07 155.45E–.07 50 4.7b,3.9s 106 4-154
BJI I 15 23 04 39.2 7.61S 154.86E 27 5.2b,5.0s **¶15931170**
MOS I 15 23 04 40.3–1.1 6.87S 155.09E 33 4.6b,5.0s
ISCJB I 15 23 04 41.3–.40 7.11S–.05 155.39E–.06 50 4.6b,3.9s
NEIC I 15 23 04 45.3–1.0 7.13S 155.28E 71–9 4.9b,3.9s
IDC I 15 23 04 47.4–2.1 7.08S 155.17E 89–21 4.5,4.3
DJA I 15 23 04 52.6–2.0 7S–9.0 155E–10 112–16 5.6b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 15 23 38 04.9–.57 6.8S–.10 155.17E–.08 50 4.4b 34 5-153
ISCJB I 15 23 38 03.5–.46 6.81S–.08 155.12E–.07 50 4.4b **¶16057175**
NEIC I 15 23 38 08.0–1.2 6.93S 155.13E 83–11 4.4b
IDC I 15 23 38 08.1–2.6 6.95S 155.15E 85–24 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=8.4km az=148.9.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.9km az=156.0.
IDC Error ellipse: s-maj=20.1km s-min=15.6km az=153.0.
IDC I 16 07 25 44.3–9.4 4.87S 154.01E 108–67 4.1,3.8
¶17190303

IDC Error ellipse: s-maj=79.0km s-min=59.7km az=104.0.
IDC I 16 19 03 02.9–8.7 5.00S 154.11E 103–63 4.1,3.8
¶17190346

IDC Error ellipse: s-maj=72.7km s-min=35.0km az=93.0.
IDC I 18 12 15 58.0–2.9 10.97S 162.24E 0 4.0L,3.7
¶17190482

IDC Error ellipse: s-maj=64.9km s-min=35.8km az=112.0.
ISC I 19 11 48 44.9–1.5 6.6S–.30 154.9E–.20 56 3.7b 9 8-153
IDC I 19 11 48 37.3–1.5 6.48S 154.88E 0 3.8,3.7 **¶17190556**
ISC Event type ke.
IDC Error ellipse: s-maj=59.4km s-min=28.6km az=131.0.
IDC I 20 07 52 48.3–2.6 6.55S 155.48E 0 3.8,3.7
¶17190608

IDC Error ellipse: s-maj=84.4km s-min=37.1km az=122.0.
IDC I 20 20 46 25.5–3.6 6.83S 154.31E 0 3.8,3.7
¶17190645

IDC Error ellipse: s-maj=128.1km s-min=34.9km az=116.0.
ISC I 20 22 09 25.4–.79 9.2S–.20 157.99E–.08 23 4.0b 11 2-87
IDC I 20 22 09 22.1–1.5 9.20S 157.91E 0 4.0,3.9 **¶16151977**
ISCJB I 20 22 09 23.9–.61 9.2S–.10 157.88E–.06 23 4.1b,3.9
NEIC I 20 22 09 27.0–.63 9.26S 157.97E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=43.8km s-min=21.9km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=8.4km az=1.2.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=12.7km az=164.0.
ISC I 21 13 03 56.8–.29 5.15S–.04 154.12E–.04 105 5.1b 298 2-159
ISCJB I 21 13 03 55.3–.20 5.12S–.02 154.13E–.03 105 5.1b **¶15954509**
GCMT I 21 13 03 58.9–.30 5.27S 153.89E 122–3 5.0W
NEIC I 21 13 03 58.9–.81 5.11S 154.03E 129–7 5.2b
MOS I 21 13 03 58.3–.83 5.13S 154.06E 129 4.9b
IDC I 21 13 03 59.5–1.2 5.20S 154.07E 129–10 5.1,4.8
BJI I 21 13 03 59.2 4.84S 153.92E 122 5.1b,5.1b
DJA I 21 13 04 03.5–.70 5S–3.0 154E–4.0 157–6 6.4,5.8
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c47; s78,c116;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.03±.15 $M_{\theta\theta}$-0.35±.16; $M_{\phi\phi}$-0.68±.15; $M_{r\theta}$-3.45±.10; $M_{\theta\phi}$-1.11±.16; $M_{\phi r}$-0.84±.10; Best double couple: NP1:$\phi_2$254.00000°,δ82.00000°,λ106.00000°. NP2:$\phi_6$10.00000°,δ18.00000°,λ27.00000°. Principal axes: T 3.8600,Plg50.0000°,Azm181.0000°; N -0.0620,Plg16.0000°,Azm71.0000°; P -3.7960,Plg35.0000°,Azm330.0000° $M_0$3.82800×10^{16}
NEIC Event type se.
ISC I 22 05 04 53.0–.62 10.11S–.07 160.77E–.09 35 4.2b,3.5s 31 1-96
IDC I 22 05 04 47.9–.90 10.10S 160.79E 0 4.3,4.2 **¶16022174**
NEIC I 22 05 04 49.8–.50 9.98S 160.84E 10 4.6b,4.2
ISCJB I 22 05 04 51.4–.50 10.09S–.06 160.80E–.07 35 4.2b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 23 17 22 18.6–.79 8.4S–.10 158.6E–.10 150 3.8b 13 2-96
ISCJB I 23 17 22 17.3–.71 8.4S–.10 158.43E–.10 150 3.7b **¶17190819**
IDC I 23 17 22 18.8–2.5 8.41S 158.50E 152–31 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=13.0km az=23.2.
IDC Error ellipse: s-maj=44.1km s-min=16.8km az=132.0.
IDC I 24 08 07 08.7–5.8 6.82S 154.89E 0 4.1s,4.1
¶17190872

IDC Error ellipse: s-maj=175.6km s-min=39.0km az=113.0.
IDC I 24 11 12 41.0–20 6.38S 154.35E 572–273 3.8,3.1
¶17190885

IDC Error ellipse: s-maj=112.2km s-min=70.4km az=16.0.
IDC I 24 13 18 54.8–2.5 7.59S 158.63E 0 4.0,3.8
¶17190894

IDC Error ellipse: s-maj=55.2km s-min=31.0km az=44.0.
ISC I 26 02 52 52.5–1.4 6.2S–.30 154.7E–.20 61 3.4b 10 8-152
ISCJB I 26 02 52 52.1–1.4 6.1S–.20 154.5E–.20 61 3.5b **¶17191004**
IDC I 26 02 52 57.2–6.5 6.12S 154.36E 97–50 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.2km s-min=11.9km az=141.7.
IDC Error ellipse: s-maj=58.6km s-min=26.2km az=111.0.
IDC I 26 13 01 11.0–4.1 6.69S 155.09E 0 4.0,3.7
¶17191036

IDC Error ellipse: s-maj=121.6km s-min=39.1km az=115.0.
ISC I 26 14 42 22.9–1.3 10.3S–.20 161.6E–.20 61 3.8b 13 2-94
IDC I 26 14 42 23.4–1.2 10.28S 161.61E 73–8 3.9,3.7 **¶17191043**
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=11.5km az=33.0.
ISC I 28 04 35 22.4–1.2 5.5S–.20 154.7E–.20 118 3.9b 10 8-152
ISCJB I 28 04 35 20.8–1.0 5.6S–.20 154.6E–.20 118 3.8b **¶17191172**
IDC I 28 04 35 29.6–4.9 5.62S 154.28E 180–40 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.0km s-min=12.1km az=135.3.
IDC Error ellipse: s-maj=41.7km s-min=20.7km az=103.0.
ISC I 28 16 35 38.3–.50 5.28S–.05 154.10E–.06 136–3 4.8b 269 2-159
NEIC I 28 16 35 37.7–.23 5.26S 154.00E 132 5.0b **¶15978012**
ISCJB I 28 16 35 37.4–.79 5.26S–.03 154.04E–.04 139–7 4.8b
GCMT I 28 16 35 37.7–.30 5.23S 153.87E 155–3 5.0W
MOS I 28 16 35 37.1–.91 5.21S 154.00E 137 4.7b
IDC I 28 16 35 38.1–.68 5.25S 154.02E 132–5 4.9,4.5
BJI I 28 16 35 39.6 4.89S 153.94E 142 5.1b,4.9b
DJA I 28 16 35 49.6–.60 5S–3.0 154E–4.0 215–6 5.5b,5.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s80,c110;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.26±.14 $M_{\theta\theta}$0.78±.16; $M_{\phi\phi}$-2.04±.17; $M_{r\theta}$1.11±.12; $M_{\theta\phi}$-2.13±.18; $M_{\phi r}$-2.36±.12; Best double couple: NP1:ϕ_s170.00000°,δ76.00000°,λ47.00000°. NP2:ϕ_s66.00000°,δ44.00000°,λ160.00000°. Principal axes: T 3.8630,Plg42.0000°,Azm40.0000°; N -0.1140,Plg41.0000°,Azm182.0000° ; P -3.7540,Plg20.0000°,Azm291.0000° $M_0$3.80800×10^{16}
ISC I 28 20 16 10.6–1.1 8.7S–.20 157.57E–.08 16 3.6b 9 2-86
IDC I 28 20 16 08.1–1.2 8.64S 157.51E 0 4.3L,3.8 **¶17191211**
ISCJB I 28 20 16 09.2–.94 8.7S–.20 157.5E–.10 16 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 21 37 20.8–.63 10.25S–.09 161.58E–.09 61 3.7b 20 2-96
ISCJB I 29 21 37 18.9–.63 10.29S–.07 161.56E–.09 61 4.0b **¶17191273**
IDC I 29 21 37 20.8–.76 10.32S 161.57E 70–6 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=8.4km az=146.9.
IDC Error ellipse: s-maj=17.7km s-min=8.4km az=26.0.
ISC I 30 22 49 10.1–1.2 5.6S–.20 154.6E–.20 118 3.6b 9 8-152
ISCJB I 30 22 49 08.7–1.1 5.6S–.20 154.6E–.20 118 3.4b **¶17191367**
IDC I 30 22 49 15.8–5.7 5.63S 154.35E 165–46 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.9km s-min=12.3km az=138.3.
IDC Error ellipse: s-maj=49.1km s-min=22.8km az=103.0.
IDC I 31 02 47 17.9–2.1 6.48S 154.72E 0 3.8,3.6
¶17191380
IDC Error ellipse: s-maj=77.1km s-min=28.8km az=132.0.
ISC II 01 14 06 17.7–1.1 11.5S–.10 162.9E–.10 35 4.2s,3.8b 15 4-96
IDC II 01 14 06 12.4–1.4 11.51S 162.94E 0 4.2,4.2s **¶16009337**
ISCJB II 01 14 06 16.0–.81 11.56S–.09 162.88E–.09 33 4.2s,3.8b
NEIC II 01 14 06 18.3–1.1 11.42S 162.84E 35 4.3b,3.8b
GCMT II 01 14 06 18.3–.40 11.20S 162.63E 12 5.0W,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=24.0km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=10.4km az=38.9.
NEIC Event type se. Error ellipse: s-maj=28.8km s-min=16.8km az=140.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c31; s74,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.29±.11 $M_{\theta\theta}$-0.34±.11; $M_{\phi\phi}$1.62±.10; $M_{r\theta}$-0.55±.32; $M_{\theta\phi}$2.92±.08; $M_{\phi r}$-1.64±.30; Best double couple: NP1:ϕ_s356.00000°,δ83.00000° ,λ-148.00000°. NP2:ϕ_s261.00000°,δ58.00000°,λ-8.00000°. Principal axes: T 4.2200,Plg17.0000°,Azm124.0000°; N -1.5210,Plg57.0000°,Azm6.0000° ; P -2.7040,Plg27.0000°,Azm223.0000° $M_0$3.46200×10^{16}
ISC II 02 07 19 56.8–.75 11.01S–.08 163.40E–.09 31 4.3s,4.1b 21 4-96
ISCJB II 02 07 19 55.2–.62 11.04S–.07 163.35E–.08 31 4.4s,4.0b **¶16339696**
NEIC II 02 07 19 58.2–1.5 10.93S 163.28E 41–13 4.4b,4.0b
IDC II 02 07 19 58.3–2.8 11.04S 163.33E 44–24 4.2L,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.4km az=138.2.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=10.8km az=94.0.
IDC Error ellipse: s-maj=23.2km s-min=15.4km az=62.0.
ISC II 02 23 12 00.1–1.0 8.2S–.20 156.18E–.09 18 3.7b 8 4-85
ISCJB II 02 23 11 57.7–1.0 8.2S–.20 156.3E–.10 18 3.6b,3.4s **¶17191564**
IDC II 02 23 11 57.9–1.4 8.11S 155.97E 0 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=14.1km az=9.9.
IDC Error ellipse: s-maj=34.9km s-min=28.4km az=124.0.
ISC II 03 07 25 57.3–1.1 10.3S–.10 161.8E–.10 61 3.4b 10 2-90
ISCJB II 03 07 25 55.8–.96 10.4S–.10 161.8E–.10 61 3.4b **¶17191582**
IDC II 03 07 26 00.1–2.5 10.34S 161.59E 84–19 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=8.2km az=139.6.
IDC Error ellipse: s-maj=29.4km s-min=17.1km az=60.0.
ISC II 03 10 17 05.2–.56 10.19S–.08 161.38E–.08 85 4.3b 37 2-114
ISCJB II 03 10 17 02.9–.42 10.15S–.06 161.40E–.07 85 4.3b **¶16339703**
IDC II 03 10 17 06.8–.76 10.10S 161.28E 102–5 4.4,4.2
NEIC II 03 10 17 07.4–1.1 10.05S 161.24E 106–9 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.7km az=156.2.
IDC Error ellipse: s-maj=13.3km s-min=10.0km az=18.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.3km az=102.0.
IDC II 03 11 45 41.6–2.5 8.89S 159.98E 0 4.3,4.0
¶17191594
IDC Error ellipse: s-maj=91.8km s-min=27.8km az=128.0.
IDC II 04 19 01 19.4–8.7 5.30S 154.22E 161–46 3.8,3.4
¶17191687
IDC Error ellipse: s-maj=107.7km s-min=26.4km az=7.0.
IDC II 04 19 15 18.6–2.5 7.20S 156.75E 0 4.2,4.0s
¶17191689
IDC Error ellipse: s-maj=75.8km s-min=28.4km az=116.0.
ISC II 04 19 22 48.3–.64 8.39S–.10 159.2E–.10 103 4.2b 22 1-145
ISCJB II 04 19 22 47.1–.64 8.5S–.10 159.01E–.09 103 4.0b **¶16339709**
NEIC II 04 19 22 48.2–2.2 8.34S 159.16E 99–25 4.3b
IDC II 04 19 22 48.9–2.1 8.49S 159.11E 104–26 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=10.1km az=38.2.
NEIC Event type se. Error ellipse: s-maj=37.8km s-min=15.5km az=143.0.
IDC Error ellipse: s-maj=37.1km s-min=18.1km az=135.0.
IDC II 04 20 17 42.9–19 11.45S 162.63E 0 4.0,3.9
¶17191691
IDC Error ellipse: s-maj=333.9km s-min=43.7km az=72.0.
ISC II 05 15 22 31.5–.83 10.05S–.08 160.3E–.10 37 3.6b 13 1-97
ISCJB II 05 15 22 29.9–.70 10.12S–.06 160.3E–.10 37 3.6b,3.3s **¶17191745**
IDC II 05 15 22 32.0–1.6 10.05S 160.32E 47–13 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=7.3km az=157.9.
IDC Error ellipse: s-maj=25.9km s-min=15.9km az=94.0.
ISC II 05 22 24 57.3–.78 7.0S–.10 155.91E–.08 100 3.8b 13 5-114
ISCJB II 05 22 24 55.8–.66 7.0S–.10 155.88E–.06 100 3.7b **¶17191761**
IDC II 05 22 24 57.1–2.4 7.01S 155.85E 94–24 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=7.6km az=8.8.
IDC Error ellipse: s-maj=25.8km s-min=14.4km az=179.0.
IDC II 06 20 21 40.6–5.0 5.86S 154.49E 196–41 3.9s,3.9
¶17191826
IDC Error ellipse: s-maj=43.2km s-min=22.3km az=108.0.
ISC II 06 21 41 16.8–.48 6.87S–.05 155.09E–.04 98–3 4.9b 409 4-160
MOS II 06 21 41 09.6–1.0 6.56S 154.98E 79 5.0b **¶16007789**
NEIC II 06 21 41 14.2–.77 6.76S 155.04E 74–7 5.0b
IDC II 06 21 41 14.1–1.6 6.71S 155.06E 74–14 4.6,4.5
GCMT II 06 21 41 14.6–.40 7.09S 155.12E 35–0 4.9W,4.5
ISCJB II 06 21 41 15.6–.17 6.82S–.03 155.03E–.03 100 4.9b,4.5
BJI II 06 21 41 16.0 6.90S 155.00E 107 5.0b,4.7b
DJA II 06 21 41 18.5–1.0 7S–5.0 156E–9.0 139–12 5.3b,4.9b
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c47; s44,c59;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.09±.16 $M_{\theta\theta}$-2.02±.10; $M_{\phi\phi}$-1.08±.10; $M_{r\theta}$0.85±.14; $M_{\theta\phi}$1.08±.07; $M_{\phi r}$-0.74±.13; Best double couple: NP1:ϕ_s126.00000°,δ56.00000°,λ93.00000°. NP2:ϕ_s301.00000°,δ34.00000°,λ86.00000°. Principal axes: T 3.3050,Plg79.0000°,Azm46.0000°; N -0.3780,Plg2.0000°,Azm304.0000° ; P -2.9370,Plg11.0000°,Azm214.0000° $M_0$3.12100×10^{16}
ISCJB Event type se.
ISC II 07 19 53 42.9–.22 7.09S–.03 155.32E–.03 415–1 5.9b 2014 4-163
BJI II 07 19 53 40.5 7.05S 155.35E 415 6.2b,6.2b **¶16009379**
ISCJB II 07 19 53 41.7–.43 7.16S–.02 155.23E–.02 413–4 5.9b,6.2b
MOS II 07 19 53 41.5–1.2 7.00S 155.14E 411 5.9b,5.4s
IDC II 07 19 53 41.8–.54 7.13S 155.26E 403–5 6.2,5.4
NEIC II 07 19 53 42.0–.00 7.16S 155.28E 413 6.2,5.4
NEIC II 07 19 53 42.9–.12 7.15S 155.18E 415 6.4,6.4W
DJA II 07 19 53 43.7–.70 7S–3.0 155E–4.0 425–8 6.4b,6.2
GCMT II 07 19 53 44.2–.10 7.04S 155.34E 426–0 6.5W,6.2
NEIC II 07 19 53 57.5–.00 7.27S 155.02E 418 6.5W,6.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=29.6.
MOS Error ellipse: s-maj=6.4km s-min=5.3km az=95.2.
IDC Error ellipse: s-maj=6.5km s-min=5.0km az=68.0.
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{18}Nm; M_{rr}0.85 $M_{\theta\theta}$2.45 $M_{\phi\phi}$-3.30 $M_{r\theta}$2.24 $M_{\theta\phi}$0.68 $M_{\phi r}$-3.95 Best double couple: NP1:ϕ_s142.00000° ,δ83.00000°,λ61.00000°. NP2:ϕ_s40.00000°,δ28.00000°,λ165.00000°. Principal axes: T 4.5800,Plg45.0000°,Azm25.0000°; N 1.4800,Plg28.0000°,Azm146.0000° ; P -6.0500,Plg32.0000°,Azm256.0000° $M_0$5.30000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=4.1km az=116.0. Felt at Gizo. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}1.09 $M_{\theta\theta}$1.47 $M_{\phi\phi}$-2.56 $M_{r\theta}$2.36 $M_{\theta\phi}$0.49 $M_{\phi r}$-4.20 Best double couple: NP1:ϕ_s149.00000°,δ82.00000°,λ73.00000°. NP2: ϕ_s33.00000°,δ19.00000°,λ153.00000°. Principal axes: T 4.8000,Plg51.0000°,Azm40.0000° ; N 0.9400,Plg17.0000°,Azm151.0000°; P -5.7400,Plg35.0000°,Azm253.0000° $M_0$5.30000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s15.00000°,δ14.00000°,λ135.00000°. NP2:ϕ_s150.00000°,δ80.00000°,λ80.00000°. Principal axes: T Plg54.0000°,Azm48.0000°; N Plg0.0000°,Azm0.0000°; P Plg34.0000° ,Azm249.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s144,c349; s121,c213; Duration: 4^{s}1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.92±.02 $M_{\theta\theta}$2.94±.03; $M_{\phi\phi}$-3.86±.03; $M_{r\theta}$2.23±.03; $M_{\theta\phi}$0.69±.03; $M_{\phi r}$-4.63±.03; Best double couple: NP1:ϕ_s144.00000°,δ83.00000° ,λ62.00000°. NP2:ϕ_s42.00000°,δ29.00000°,λ166.00000°. Principal axes: T 5.0430,Plg44.0000°,Azm26.0000°; N 1.9530,Plg28.0000°,Azm148.0000° ; P -6.9930,Plg32.0000°,Azm258.0000° $M_0$6.01800×10^{18}
NEIC Event type se. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}1.03 $M_{\theta\theta}$2.66 $M_{\phi\phi}$-3.70 $M_{r\theta}$1.96 $M_{\theta\phi}$0.94 $M_{\phi r}$-4.18 Best double couple: NP1:ϕ_s144.00000° ,δ82.00000°,λ62.00000°. NP2:ϕ_s39.00000°,δ29.00000°,λ163.00000°. Principal axes: T 4.4600,Plg46.0000°,Azm25.0000°; N 2.0300,Plg28.0000°,Azm148.0000° ; P -6.5000,Plg31.0000°,Azm257.0000° $M_0$5.50000×10^{18}
IDC II 07 22 36 43.9–4.9 7.40S 156.91E 0 4.3,4.1b
¶17191880
IDC Error ellipse: s-maj=138.5km s-min=28.7km az=112.0.
IDC II 07 23 14 33.5–1.1 8.10S 159.03E 0 3.8,3.7
¶17191882
IDC Error ellipse: s-maj=30.6km s-min=23.4km az=65.0.
ISC II 09 22 33 22.9–1.4 6.62S–.08 154.7E–.10 66–12 4.3b 72 4-153
IDC II 09 22 33 13.8–.60 6.56S 154.78E 0 4.5,4.3 **¶16358561**
ISCJB II 09 22 33 21.5–1.7 6.58S–.06 154.67E–.08 64–13 4.2b,4.3
NEIC II 09 22 33 25.0–1.0 6.56S 154.64E 83–8 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=16.7km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.9km az=13.7.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=93.0.
ISC II 10 18 26 18.5–1.1 6.4S–.20 154.4E–.20 48 3.5b 10 8-152
IDC II 10 18 26 11.6–1.2 6.30S 154.40E 0 3.9,3.7 **¶17192028**
ISCJB II 10 18 26 17.0–1.0 6.4S–.20 154.3E–.10 48 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 11 07 24 35.8–1.2 9.44S 158.39E 0 3.7,3.5
¶17192058
IDC Error ellipse: s-maj=45.2km s-min=12.8km az=175.0.
ISC II 12 08 20 01.5–.45 6.60S–.05 154.36E–.05 46–3 5.1b,4.3s 394 3-152
DJA II 12 08 19 57.4–.40 7S–5.0 155E–6.0 10 5.3b,4.9b **¶16021391**
ISCJB II 12 08 19 59.8–.82 6.60S–.03 154.25E–.03 40–7 5.1b,4.3s
MOS II 12 08 20 00.7–1.2 6.37S 154.20E 42 5.3b,4.3s
IDC II 12 08 20 00.9–.64 6.52S 154.13E 37–4 4.8,4.7
BJI II 12 08 20 01.9 6.10S 154.53E 53 5.4b,5.1b
NEIC II 12 08 20 02.7–.73 6.58S 154.21E 54–6 5.2b,5.1b
GCMT II 12 08 20 02.7–.20 6.78S 154.25E 19–0 5.1W,5.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.4km az=169.3.
MOS Error ellipse: s-maj=9.6km s-min=8.1km az=103.5.
IDC Error ellipse: s-maj=17.2km s-min=13.9km az=84.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.7km az=168.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c58; s75,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.46±.21 $M_{\theta\theta}$-2.11±.13; $M_{\phi\phi}$-2.34±.13; $M_{r\theta}$2.30±.27; $M_{\theta\phi}$1.77±.09; $M_{\phi r}$-2.59±.29; Best double couple: NP1:ϕ_s138.00000°,δ65.00000° ,λ91.00000°. NP2:ϕ_s316.00000°,δ25.00000°,λ89.00000°. Principal axes: T 5.6980,Plg70.0000°,Azm49.0000°; N -0.4520,Plg1.0000°,Azm317.0000° ; P -5.2360,Plg20.0000°,Azm227.0000° $M_0$5.46700×10^{16}
IDC II 12 08 29 50.0–2.8 6.48S 154.07E 0 3.9,3.7
¶17192107
IDC Error ellipse: s-maj=99.3km s-min=27.6km az=101.0.
IDC II 12 08 36 48.4–3.9 6.42S 154.06E 0 3.8,3.7
¶17192108
IDC Error ellipse: s-maj=137.3km s-min=40.0km az=117.0.
ISC II 12 10 59 24.9–1.2 7.0S–.20 154.3E–.20 39 3.7b 9 7-152
IDC II 12 10 59 18.9–1.4 6.90S 154.32E 0 4.0,3.8 **¶17192112**
ISCJB II 12 10 59 23.5–1.1 7.0S–.20 154.2E–.20 39 3.7b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC II 16 03 01 19.9–.91 5.4S–.10 154.6E–.10 118 3.7b 15 8-152
ISCJB II 16 03 01 18.6–.83 5.4S–.10 154.4E–.10 118 3.5b **¶17192337**
IDC II 16 03 01 21.7–1.1 5.46S 154.35E 134–8 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=13.6km az=19.2.
IDC Error ellipse: s-maj=24.2km s-min=16.2km az=109.0.
IDC II 17 08 18 04.4–3.5 10.73S 163.57E 0 3.7,3.5
¶17192405
IDC Error ellipse: s-maj=131.2km s-min=38.4km az=133.0.
IDC II 17 13 05 19.4–3.0 6.60S 154.83E 0 3.6,3.4
¶17192419
IDC Error ellipse: s-maj=82.5km s-min=34.2km az=126.0.
IDC II 18 11 43 07.6–6.7 6.35S 156.50E 0 3.5,3.4
¶17192476
IDC Error ellipse: s-maj=197.4km s-min=46.1km az=110.0.
IDC II 19 23 27 09.0–5.9 5.54S 154.10E 0 3.4,3.2
¶17192555
IDC Error ellipse: s-maj=179.9km s-min=40.3km az=110.0.
IDC II 20 08 16 50.6–1.8 10.11S 160.64E 103–14 3.8,3.6
¶17192576
IDC Error ellipse: s-maj=33.7km s-min=25.6km az=125.0.
ISC II 20 09 17 11.6–.27 7.25S–.05 155.16E–.04 31 5.2b,4.4s 356 4-160
DJA II 20 09 17 03.0–1.0 7S–8.0 156E–10 10 5.2b,4.8 **¶16032971**
IDC II 20 09 17 06.0–.37 7.18S 155.12E 0 4.9,4.8

ISCJB II 20 09 17 09.8–.17 7.26S–.03 155.09E–.03 31 5.2b,4.3s
MOS II 20 09 17 10.7–1.2 7.06S 154.92E 32 5.5b,4.3s
NEIC II 20 09 17 11.9–.16 7.26S 155.14E 35 5.3b,4.3s
GCMT II 20 09 17 11.9–.20 7.48S 155.20E 19–0 5.1W,4.3s
BJI II 20 09 17 14.0 6.66S 155.32E 55 5.3b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=10.9km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=143.5.
MOS Error ellipse: s-maj=9.0km s-min=7.4km az=79.1.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c47; s95,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.11±.28 $M_{\theta\theta}$-3.27±.16; $M_{\phi\phi}$-1.84±.17; $M_{r\theta}$3.65±.37; $M_{\theta\phi}$1.91±.10; $M_{\phi r}$-0.33±.39; Best double couple: NP1:ϕ_s109.00000°,δ63.00000°,λ77.00000°. NP2:ϕ_s316.00000°,δ29.00000°,λ114.00000°. Principal axes: T 6.4930,Plg69.0000°,Azm353.0000°; N -0.8910,Plg12.0000°,Azm115.0000°; P -5.6020,Plg17.0000°,Azm208.0000° $M_0$6.04800×10^{16}

IDC II 20 16 30 32.8–7.3 7.27S 155.49E 45–62 3.5,3.4 ¶17192595

IDC Error ellipse: s-maj=63.9km s-min=33.6km az=120.0.

IDC II 20 20 48 00.3–2.8 7.35S 155.14E 0 3.8,3.5 ¶17192601

IDC Error ellipse: s-maj=192.2km s-min=28.8km az=132.0.

ISC II 21 12 26 31.8–.31 10.28S–.04 161.50E–.04 72–2 5.0b 394 2-160
ISCJB II 21 12 26 31.0–1.1 10.20S–.03 161.31E–.03 70–10 4.9b **¶16398666**
BJI II 21 12 26 30.5 9.99S 161.79E 80 5.1b,5.0s
NEIC II 21 12 26 32.0–.18 10.28S 161.42E 70 5.1b,5.0s
IDC II 21 12 26 34.2–1.2 10.32S 161.49E 96–9 4.8,4.6
GCMT II 21 12 26 35.7–.50 9.55S 161.50E 90–4 5.5W,4.6
MOS II 21 12 26 35.5–.88 10.09S 161.23E 109 5.1b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=150.8.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=149.0.
IDC Error ellipse: s-maj=11.4km s-min=9.5km az=74.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s69,c87; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.28±.12 $M_{\theta\theta}$0.42±.13; $M_{\phi\phi}$-0.14±.14; $M_{r\theta}$-0.36±.08; $M_{\theta\phi}$2.18±.12; $M_{\phi r}$0.69±.07; Best double couple: NP1:ϕ_s185.00000°,δ79.00000°,λ-162.00000°. NP2:ϕ_s92.00000°,δ73.00000°,λ-12.00000°. Principal axes: T 2.3520,Plg4.0000°,Azm318.0000°; N -0.0130,Plg69.0000°,Azm217.0000°; P -2.3390,Plg20.0000°,Azm50.0000° $M_0$2.34500×10^{17}
MOS Error ellipse: s-maj=8.9km s-min=7.6km az=86.4.

ISC II 21 12 26 49.0–.66 10.3S–.10 161.4E–.10 61 4.8b 27 26-148
ISCJB II 21 12 26 47.6–.55 10.3S–.10 161.4E–.10 61 4.9b **¶17192633**
IDC II 21 12 26 55.8–6.6 10.35S 161.42E 122–59 5.0,4.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=15.7km az=165.6.
IDC Error ellipse: s-maj=18.7km s-min=15.7km az=90.0.

IDC II 21 15 48 12.2–2.0 11.27S 162.83E 0 4.4L,3.8 ¶17192639

IDC Error ellipse: s-maj=41.7km s-min=33.7km az=146.0.

IDC II 22 06 15 58.4–.89 9.02S 159.54E 0 4.1,3.8 ¶17192680

IDC Error ellipse: s-maj=30.9km s-min=8.8km az=47.0.

IDC II 22 17 01 36.3–2.1 6.96S 155.47E 0 3.9s,3.9 ¶17192717

IDC Error ellipse: s-maj=67.3km s-min=27.8km az=126.0.

IDC II 23 02 04 48.9–5.5 10.28S 161.16E 68–41 3.8,3.7 ¶17192732

IDC Error ellipse: s-maj=48.2km s-min=27.0km az=117.0.

ISC II 23 17 06 45.3–1.0 6.6S–.20 155.9E–.10 173 3.8b 10 9-96
ISCJB II 23 17 06 44.0–.97 6.6S–.10 155.92E–.10 173 3.7b **¶17192752**
IDC II 23 17 06 50.2–3.8 6.59S 155.63E 220–35 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=11.8km az=157.9.
IDC Error ellipse: s-maj=25.5km s-min=22.0km az=154.0.

ISC II 25 01 07 44.9–1.3 10.8S–.20 161.8E–.20 36 3.7b 10 2-94
IDC II 25 01 07 38.8–2.0 10.82S 161.96E 0 4.2L,4.0 **¶17192813**
ISCJB II 25 01 07 43.4–1.0 10.8S–.10 161.8E–.10 36 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.

IDC II 25 05 20 50.9–1.1 10.27S 161.35E 95–8 4.0,3.9 ¶17192817

IDC Error ellipse: s-maj=20.3km s-min=12.5km az=48.0.

ISC II 27 03 11 59.3–1.1 9.0S–.30 158.0E–.10 10 3.7b 7 2-90
ISCJB II 27 03 11 58.0–.83 9.1S–.20 157.93E–.07 10 3.5b **¶17192932**
IDC II 27 03 11 58.4–2.9 8.90S 157.80E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.7km s-min=10.0km az=5.8.
IDC Error ellipse: s-maj=115.4km s-min=30.6km az=130.0.

ISC II 27 10 52 47.2–.71 7.2S–.10 155.57E–.09 50 3.7b 14 5-154
ISCJB II 27 10 52 45.8–.74 7.3S–.10 155.50E–.09 50 3.8b,3.6s **¶17192947**
IDC II 27 10 52 50.8–2.8 7.25S 155.41E 79–26 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=10.2km az=157.1.
IDC Error ellipse: s-maj=23.7km s-min=17.8km az=161.0.

IDC II 27 23 32 57.3–10 6.47S 154.32E 119–71 3.6,3.4 ¶17192971

IDC Error ellipse: s-maj=88.5km s-min=41.5km az=105.0.

IDC II 28 17 12 18.9–2.5 6.80S 155.32E 89–24 3.7,3.5 ¶17193009

IDC Error ellipse: s-maj=24.5km s-min=13.6km az=1.0.

IDC III 01 04 29 51.6–3.8 11.03S 162.61E 0 3.9,3.8 ¶17193039

IDC Error ellipse: s-maj=194.7km s-min=34.4km az=138.0.

IDC III 02 03 09 36.0–3.8 9.96S 156.83E 0 3.5,3.4 ¶17193104

IDC Error ellipse: s-maj=103.6km s-min=34.9km az=122.0.

ISC III 03 03 51 26.9–1.1 10.4S–.20 161.5E–.10 61 3.6b 12 2-96
ISCJB III 03 03 51 25.6–.92 10.5S–.10 161.49E–.10 61 3.8b **¶17193171**
IDC III 03 03 51 29.7–5.0 10.33S 161.30E 81–38 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=13.1km az=23.1.
IDC Error ellipse: s-maj=46.4km s-min=22.1km az=121.0.

ISC III 04 04 07 49.8–.33 8.92S–.04 157.36E–.04 19–1 5.6b,5.2s 905 3-162
IDC III 04 04 07 46.9–.38 8.91S 157.25E 0 5.4,5.4b **¶16461106**
ISCJB III 04 04 07 48.7–.11 8.92S–.02 157.20E–.02 19 5.6b,5.2s
GCMT III 04 04 07 48.6–.10 9.03S 157.29E 14–0 5.6W,5.2s
NEIC III 04 04 07 48.6–.12 8.93S 157.24E 10 5.6W,5.6b
BJI III 04 04 07 48.0 8.47S 157.53E 12 5.8b,5.7b
MOS III 04 04 07 49.6–1.0 8.81S 157.14E 21 5.7b,5.1s
NEIC III 04 04 07 49.0–.00 8.93S 157.14E 15 5.7b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=11.0km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=166.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c226; s133,c343;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.84±.03 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$-0.19±.03; $M_{r\theta}$0.63±.06; $M_{\theta\phi}$2.85±.03; $M_{\phi r}$-0.13±.06; Best double couple: NP1:ϕ_s88.00000°,δ87.00000°,λ14.00000°. NP2:ϕ_s358.00000°,δ76.00000°,λ177.00000°. Principal axes: T 2.5070,Plg11.0000°,Azm314.0000°; N 0.8420,Plg76.0000°,Azm100.0000°; P -3.3500,Plg8.0000°,Azm222.0000° $M_0$2.92900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.3km az=152.0.
MOS Error ellipse: s-maj=7.1km s-min=5.9km az=99.2.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}0.60 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-0.30 $M_{r\theta}$0.00 $M_{\theta\phi}$2.50 $M_{\phi r}$-1.70 Best double couple: NP1:ϕ_s176.00000°,δ82.00000°,λ145.00000°. NP2:ϕ_s272.00000°,δ55.00000°,λ9.00000°. Principal axes: T 2.9000,Plg29.0000°,Azm128.0000°; N 0.3000,Plg54.0000°,Azm345.0000°; P -3.2000,Plg17.0000°,Azm229.0000° $M_0$3.00000×10^{17}

IDC III 04 10 31 46.6–5.7 10.12S 161.19E 65–42 3.3,3.2 ¶17193229

IDC Error ellipse: s-maj=49.6km s-min=27.6km az=119.0.

ISC III 04 14 52 26.8–.47 6.97S–.05 155.71E–.04 63–3 5.0b 245 4-161
NEIC III 04 14 52 24.4–.26 7.00S 155.78E 47 5.1b **¶16196356**
GCMT III 04 14 52 24.4–.20 7.22S 155.63E 44–0 5.2W
MOS III 04 14 52 24.1–1.2 6.91S 155.71E 50 5.0b,4.4s
IDC III 04 14 52 25.9–1.7 6.96S 155.69E 56–14 4.7,4.5
DJA III 04 14 52 25.3–1.3 8S–7.0 157E–18 10 5.5b,5.2b
ISCJB III 04 14 52 25.7–1.0 7.03S–.04 155.79E–.04 70–9 4.9b,5.2b
BJI III 04 14 52 30.3 6.88S 155.61E 96 5.1b,4.7b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.1km az=117.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c142; s95,c150; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.02 $M_{\theta\theta}$-0.57±.01; $M_{\phi\phi}$-0.11±.01; $M_{r\theta}$-0.14±.01; $M_{\theta\phi}$0.47±.01; $M_{\phi r}$-0.18±.01; Best double couple: NP1:ϕ_s282.00000°,δ50.00000°,λ62.00000°. NP2:ϕ_s142.00000°,δ48.00000°,λ119.00000°. Principal axes: T 0.7770,Plg69.0000°,Azm124.0000°; N 0.0850,Plg21.0000°,Azm301.0000°; P -0.8620,Plg1.0000°,Azm32.0000° $M_0$0.81900×10^{17}
MOS Error ellipse: s-maj=8.4km s-min=7.8km az=126.3.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.5km az=39.5.

ISC III 05 05 38 36.4–1.2 4.8S–.30 154.1E–.30 105 3.9b 14 7-152
ISCJB III 05 05 38 34.6–1.1 4.8S–.30 154.0E–.20 105 3.7b **¶17193269**
IDC III 05 05 38 37.8–1.4 4.86S 154.02E 124–7 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=49.2km s-min=10.6km az=136.9.
IDC Error ellipse: s-maj=54.5km s-min=15.9km az=129.0.

ISC III 06 19 03 01.5–.91 7.8S–.20 158.3E–.20 61 3.4b 9 2-95
ISCJB III 06 19 03 00.1–.78 7.8S–.10 158.3E–.10 61 3.6b **¶17193372**
IDC III 06 19 03 01.2–6.5 7.76S 158.31E 58–70 4.2L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.6km s-min=9.7km az=44.8.
IDC Error ellipse: s-maj=53.4km s-min=31.2km az=169.0.

ISC III 07 00 09 38.2–.18 10.33S–.03 160.75E–.03 44–2 6.5s,6.2b 2109 1-165
GCMT III 07 00 09 36.5–.10 10.54S 160.69E 35–0 6.4W,6.2b **¶16461120**
NEIC III 07 00 09 36.5–.10 10.35S 160.77E 22 6.6s,6.4W
BJI III 07 00 09 36.0 10.30S 160.90E 40 6.4s,6.3b
ISCJB III 07 00 09 37.8–.59 10.34S–.02 160.73E–.02 43–5 6.5s,6.1b
NEIC III 07 00 09 38.0–.00 10.13S 160.14E 37 6.5s,6.1b
MOS III 07 00 09 39.3–.89 10.29S 160.65E 58 6.4s,6.3b
IDC III 07 00 09 40.8–.98 10.31S 160.71E 59–7 6.2s,6.2
NEIC III 07 00 09 51.7–.00 10.34S 160.28E 37 6.2s,6.2
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s147,c373; s139,c539;Duration: 3s8 Moment tensor: Scale 10^{18} Nm; M_{rr}4.43±.03 $M_{\theta\theta}$-1.78±.02; $M_{\phi\phi}$-2.65±.02; $M_{r\theta}$0.64±.03; $M_{\theta\phi}$2.68±.02; $M_{\phi r}$-0.75±.03; Best double couple: NP1:ϕ_s140.00000°,δ51.00000°,λ90.00000°. NP2:ϕ_s320.00000°,δ39.00000°,λ90.00000°. Principal axes: T 4.5310,Plg84.0000°,Azm50.0000°; N 0.5000,Plg0.0000°,Azm140.0000°; P -5.0320,Plg6.0000°,Azm230.0000° $M_0$4.78100×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=152.0. Felt [IV] at Honiara. Also felt at Tulaghi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$5.50000×10^{18} Moment Tensor Solution. s40 Moment tensor: Scale 10^{18}Nm; M_{rr}2.76 $M_{\theta\theta}$-1.81 $M_{\phi\phi}$-0.95 $M_{r\theta}$0.20 $M_{\theta\phi}$3.87 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s117.00000°,δ48.00000°,λ69.00000°. NP2:ϕ_s327.00000°,δ46.00000°,λ112.00000°. Principal axes: T 2.7900,Plg74.0000°,Azm317.0000°; N 2.4900,Plg16.0000°,Azm131.0000°; P -5.2800,Plg1.0000°,Azm222.0000° $M_0$4.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s330.00000°,δ30.00000°,λ90.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ90.00000°. Principal axes: T Plg75.0000°,Azm60.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000°,Azm240.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=5.8.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{18}Nm; M_{rr}4.20 $M_{\theta\theta}$-1.93 $M_{\phi\phi}$-2.27 $M_{r\theta}$0.35 $M_{\theta\phi}$2.00 $M_{\phi r}$0.81 Best double couple: NP1:ϕ_s327.00000°,δ48.00000°,λ104.00000°. NP2:ϕ_s127.00000°,δ43.00000°,λ75.00000°. Principal axes: T 4.3600,Plg79.0000°,Azm304.0000°; N -0.2400,Plg10.0000°,Azm138.0000°; P -4.1200,Plg2.0000°,Azm47.0000° $M_0$4.20000×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=5.5km az=85.5.
IDC Error ellipse: s-maj=8.6km s-min=7.7km az=16.0.
NEIC Event type se. Moment Tensor Solution. s72 Moment tensor: Scale 10^{18}Nm; M_{rr}4.57 $M_{\theta\theta}$-1.68 $M_{\phi\phi}$-2.89 $M_{r\theta}$0.67 $M_{\theta\phi}$2.60 $M_{\phi r}$-1.15 Best double couple: NP1:ϕ_s144.00000°,δ53.00000°,λ93.00000°. NP2:ϕ_s319.00000°,δ37.00000°,λ86.00000°. Principal axes: T 4.7600,Plg82.0000°,Azm69.0000°; N 0.3800,Plg2.0000°,Azm322.0000°; P -5.1300,Plg8.0000°,Azm232.0000° $M_0$4.90000×10^{18}

IDC III 07 03 14 51.7–10 5.77S 154.48E 247–103 3.7,3.3 ¶17193391

IDC Error ellipse: s-maj=61.7km s-min=36.7km az=113.0.

ISC III 07 10 32 57.1–1.1 8.0S–.10 160.2E–.30 35 3.8b 11 1-95
IDC III 07 10 32 51.9–1.1 7.97S 160.12E 0 4.1,3.9 **¶17193408**
ISCJB III 07 10 32 55.5–.95 7.93S–.07 160.1E–.20 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.

IDC III 07 19 55 53.6–1.7 10.51S 160.53E 0 3.8,3.6b ¶17193428

IDC Error ellipse: s-maj=38.5km s-min=22.7km az=97.0.

ISC III 09 08 18 17.1–.83 10.4S–.10 161.3E–.10 61 3.7b 16 2-96
ISCJB III 09 08 18 15.4–.80 10.5S–.10 161.3E–.10 61 3.6b **¶17193533**
IDC III 09 08 18 20.4–1.1 10.28S 161.13E 87–8 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=12.4km az=40.6.
IDC Error ellipse: s-maj=18.8km s-min=13.8km az=48.0.

IDC III 09 23 14 56.3–22 4.92S 154.44E 544–196 3.6,2.9 ¶17193586

IDC Error ellipse: s-maj=258.6km s-min=39.0km az=93.0.

ISC III 12 19 45 18.6–.30 6.19S–.05 154.43E–.05 61 4.9b 205 3-159
IDC III 12 19 45 14.4–2.7 6.14S 154.47E 25–17 4.7,4.7 **¶16310844**
MOS III 12 19 45 14.5–.85 6.06S 154.34E 33 5.3b,4.7
BJI III 12 19 45 16.7 5.76S 154.73E 54 5.2b,5.2s
ISCJB III 12 19 45 17.4–.19 6.19S–.03 154.38E–.03 61 4.9b,5.2s
NEIC III 12 19 45 18.4–.65 6.17S 154.38E 57–6 5.0b,5.2s
GCMT III 12 19 45 18.4–.40 6.44S 154.16E 40–1 5.1W,5.2s
DJA III 12 19 45 21.4–.90 6S–5.0 154E–5.0 73–8 5.8,5.5b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c45; s48,c65;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.96±.36 $M_{\theta\theta}$-2.05±.24; $M_{\phi\phi}$-2.90±.23; $M_{r\theta}$2.43±.32; $M_{\theta\phi}$2.79±.17; $M_{\phi r}$-2.53±.27; Best double couple: NP1:ϕ_s137.00000°,δ62.00000°,λ88.00000°. NP2:ϕ_s321.00000°,δ28.00000°,λ94.00000°. Principal axes: T 6.0480,Plg73.0000°,Azm43.0000°; N 0.3420,Plg2.0000°,Azm138.0000°; P -6.3800,Plg17.0000°,Azm229.0000° $M_0$6.21400×10^{16}

ISC III 14 07 12 01.5–1.6 8.8S–.30 161.8E–.20 35 3.6b 11 2-89
ISCJB III 14 07 11 59.3–1.2 9.0S–.30 161.9E–.10 33 3.6b **¶17195094**
IDC III 14 07 12 00.5–2.0 7.86S 160.61E 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.7km s-min=10.7km az=158.6.
IDC Error ellipse: s-maj=71.2km s-min=24.8km az=117.0.

ISC III 16 02 08 31.1–.75 7.0S–.10 155.2E–.10 41 4.2b 25 8-153
IDC III 16 02 08 25.2–.81 6.91S 155.16E 0 4.3,4.1 **¶16424540**
ISCJB III 16 02 08 29.7–.56 7.0S–.10 155.10E–.09 41 4.1b,3.3s
NEIC III 16 02 08 30.5–.35 6.97S 155.12E 35 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=29.6km s-min=17.6km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=7.7km az=140.1.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=6.0km az=131.0.

ISC III 18 20 32 25.8–1.5 10.2S–.20 161.1E–.20 67 3.6b 6 1-90
IDC III 18 20 32 17.9–2.0 9.95S 161.05E 0 4.0,3.9 **¶17197078**
ISCJB III 18 20 32 24.4–1.4 10.2S–.20 161.1E–.20 67 3.5b,3.9
ISC Event type ke.
ISCJB Event type ke.

ISC III 19 18 59 48.2–.42 5.89S–.06 154.36E–.06 61 4.3b 78 3-152

ISCJB III 19 18 59 46.6–.30 5.95S–.05 154.39E–.05 61 4.3b **¶16461965**
IDC III 19 18 59 49.0–1.9 5.97S 154.38E 69–17 4.3,4.1
NEIC III 19 18 59 50.8–1.1 6.01S 154.39E 88–11 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.8km az=138.2.
IDC Error ellipse: s-maj=13.3km s-min=12.2km az=29.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=9.0km az=88.0.
ISC III 20 10 22 57.4–.53 11.16S–.07 161.80E–.08 36 4.9b 44 3-118
IDC III 20 10 22 52.5–1.2 11.20S 161.73E 0 4.1,3.9 **¶16447657**
ISCJB III 20 10 22 56.0–.39 11.22S–.06 161.76E–.06 36 4.8b,3.3s
NEIC III 20 10 22 57.7–.45 11.19S 161.82E 35 4.8b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=30.8km s-min=23.7km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=8.3km az=41.6.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.3km az=143.0.
IDC III 20 18 55 20.9–2.5 7.19S 155.81E 0 3.8,3.5
¶17197533
IDC Error ellipse: s-maj=78.3km s-min=34.4km az=136.0.
IDC III 22 06 18 54.8–2.2 9.23S 161.39E 0 4.0,3.7
¶17197937
IDC Error ellipse: s-maj=81.8km s-min=29.4km az=146.0.
ISC III 25 01 21 46.5–2.0 6.2S–.20 156.1E–.50 35 4.2b 14 17-154
IDC III 25 01 21 39.0–4.1 6.31S 156.53E 0 4.0,3.9 **¶16480745**
ISCJB III 25 01 21 44.5–1.7 6.2S–.10 156.2E–.40 33 4.2b,3.9
NEIC III 25 01 21 53.0–8.7 6.26S 155.99E 94–72 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=137.8km s-min=27.7km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=58.3km s-min=14.6km az=11.8.
NEIC Event type se. Error ellipse: s-maj=66.1km s-min=31.0km az=86.0.
ISC III 26 09 51 26.8–.56 7.18S–.09 154.25E–.07 35 4.2b,3.4s 31 6-152
ISCJB III 26 09 51 24.8–.45 7.20S–.07 154.23E–.05 33 4.1b,3.4s **¶16481001**
NEIC III 26 09 51 26.7–.42 7.24S 154.10E 35 4.5b,3.4s
IDC III 26 09 51 29.6–4.1 7.32S 154.24E 65–36 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=6.8km az=151.7.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.1km az=118.0.
IDC Error ellipse: s-maj=23.1km s-min=18.6km az=87.0.
IDC III 26 23 57 48.0–4.0 6.42S 156.06E 0 3.9,3.7
¶17198698
IDC Error ellipse: s-maj=98.0km s-min=36.7km az=111.0.
ISC IV 02 10 48 15.7–1.0 7.0S–.20 154.2E–.10 35 4.1b,3.3s 24 6-152
IDC IV 02 10 48 10.6–1.1 6.93S 154.20E 0 4.4,4.2 **¶16509614**
NEIC IV 02 10 48 12.2–.76 6.93S 154.15E 10 4.2b,4.2
ISCJB IV 02 10 48 14.1–.78 7.0S–.10 154.1E–.10 33 4.1b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 04 17 27 56.8–1.2 9.5S–.20 160.6E–.10 58 3.6b,3.4s 9 1-84
IDC IV 04 17 27 47.4–1.5 9.67S 160.77E 0 4.0,3.8b **¶17199793**
ISCJB IV 04 17 27 54.7–1.0 9.5S–.20 160.7E–.10 58 3.7b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 09 57 13.1–.66 9.62S–.07 159.77E–.08 22–4 4.9b,4.0s 158 0-158
BJI IV 05 09 57 06.7 10.21S 160.81E 28 5.1b,5.1s **¶16408865**
ISCJB IV 05 09 57 12.5–.85 9.56S–.06 159.63E–.05 27–5 4.8b,3.9s
MOS IV 05 09 57 12.3–.82 9.51S 159.66E 26 5.2b,3.9s
NEIC IV 05 09 57 13.7–.76 9.59S 159.73E 26–5 5.1b,3.9s
IDC IV 05 09 57 13.1–.66 9.62S 159.76E 23–3 4.4,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.1km az=154.9.
MOS Error ellipse: s-maj=11.3km s-min=9.3km az=58.4.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.8km az=144.0. Felt [IV] at Honiara.
IDC Error ellipse: s-maj=17.6km s-min=9.1km az=142.0.
IDC IV 06 21 05 42.7–9.6 6.28S 154.25E 108–68 3.8,3.6
¶17200053
IDC Error ellipse: s-maj=99.9km s-min=57.4km az=125.0.
ISC IV 07 06 49 27.7–1.5 10.3S–.30 163.3E–.10 16 3.6b 8 3-91
IDC IV 07 06 49 21.6–3.0 10.76S 164.03E 0 4.5L,4.0 **¶17200084**
ISC Event type ke.
IDC Error ellipse: s-maj=72.1km s-min=37.1km az=122.0.
ISC IV 08 14 13 11.5–.41 7.43S–.08 156.19E–.07 44 4.6b,3.8s 48 4-161
ISCJB IV 08 14 13 09.8–.37 7.46S–.06 156.14E–.05 44 4.5b,3.7s **¶16577756**
NEIC IV 08 14 13 12.3–1.3 7.48S 156.18E 54–12 4.7b,3.7s
IDC IV 08 14 13 12.3–2.9 7.48S 156.14E 49–27 4.5,4.3
BJI IV 08 14 13 15.0 7.70S 156.30E 106 5.0b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=7.6km az=8.7.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=9.3km az=216.0.
IDC Error ellipse: s-maj=18.7km s-min=13.8km az=88.0.
ISC IV 11 14 23 46.4–.59 5.52S–.06 154.18E–.08 164–4 4.5b 52 2-152
ISCJB IV 11 14 23 45.6–.85 5.53S–.06 154.20E–.06 169–7 4.4b **¶16424684**
BJI IV 11 14 23 45.4 5.66S 154.30E 184 4.8b,4.4b
IDC IV 11 14 23 45.4–.82 5.70S 154.11E 148–7 4.1,3.7
NEIC IV 11 14 23 46.7–.80 5.40S 154.21E 173–8 4.8b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=8.6km az=155.4.
IDC Error ellipse: s-maj=16.7km s-min=14.7km az=127.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=9.2km az=194.0.
ISC IV 13 01 00 16.9–.92 6.3S–.20 155.8E–.10 10 3.9b 11 5-154
IDC IV 13 01 00 15.0–1.2 6.34S 155.81E 0 4.0,3.9 **¶17200836**
ISCJB IV 13 01 00 15.2–.76 6.3S–.10 155.8E–.10 10 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 14 14 43 09.3–.46 6.87S–.09 155.37E–.08 50 4.1b,3.2s 35 5-160
IDC IV 14 14 43 11.8–2.5 6.97S 155.63E 75–22 4.2,4.0 **¶16577809**
NEIC IV 14 14 43 12.4–1.0 6.96S 155.60E 81–9 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=14.6km az=124.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.6km az=176.0.
ISC IV 14 22 41 51.1–.38 10.61S–.05 161.40E–.05 28–2 5.1b,4.3s 286 2-160
BJI IV 14 22 41 50.1 10.62S 161.52E 35 5.2b,4.9s **¶16436916**
ISCJB IV 14 22 41 50.9–1.0 10.65S–.03 161.35E–.03 38–9 5.0b,4.2s
MOS IV 14 22 41 53.8–1.1 10.55S 161.37E 62 4.8b,4.2s
IDC IV 14 22 41 53.5–3.7 10.47S 161.43E 46–35 4.7L,4.6
NEIC IV 14 22 41 53.8–.69 10.65S 161.37E 51–6 5.2b,4.6
GCMT IV 14 22 41 53.8–.30 10.63S 161.44E 34–0 5.0W,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=5.2km az=11.8.
MOS Error ellipse: s-maj=8.2km s-min=7.4km az=144.7.
IDC Error ellipse: s-maj=16.0km s-min=13.8km az=112.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.9km az=70.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c52; s64,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.26±.21 $M_{\theta\theta}$0.71±.19; $M_{\phi\phi}$-3.97±.17; $M_{r\theta}$-1.38±.17; $M_{\theta\phi}$1.37±.12; $M_{\phi r}$-0.88±.15; Best double couple: NP1:ϕ_s189.00000°,δ55.00000°,λ124.00000°. NP2:ϕ_s320.00000°,δ48.00000°,λ52.00000°. Principal axes: T 4.0990,Plg62.0000°,Azm158.0000°; N 0.2770,Plg27.0000°,Azm348.0000° ; P -4.3750,Plg4.0000°,Azm256.0000° M_o4.23700×10^{16}
IDC IV 15 09 04 12.2–3.2 6.27S 154.57E 0 4.0s,4.0
¶17201113
IDC Error ellipse: s-maj=100.5km s-min=30.9km az=105.0.
IDC IV 15 09 20 49.9–2.3 6.26S 154.31E 0 3.7,3.5
¶17201116
IDC Error ellipse: s-maj=78.9km s-min=30.2km az=128.0.
ISC IV 16 13 27 48.2–.81 5.9S–.10 154.27E–.08 50 3.2b 13 7-152
ISCJB IV 16 13 27 45.9–.96 6.0S–.20 154.3E–.10 50 3.4s,3.3b **¶17201228**
IDC IV 16 13 27 48.2–3.5 6.12S 154.20E 61–31 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=14.3km az=178.5.
IDC Error ellipse: s-maj=33.2km s-min=23.7km az=165.0.
IDC IV 17 10 53 47.4–1.4 8.76S 157.58E 0 3.7,3.5
¶16707191
IDC Error ellipse: s-maj=48.0km s-min=29.9km az=175.0.
ISC IV 17 10 54 42.8–.67 8.7S–.10 157.60E–.07 17 4.0b 18 2-97
IDC IV 17 10 54 40.0–.89 8.74S 157.62E 0 4.2L,4.1 **¶17201309**
ISCJB IV 17 10 54 41.1–.56 8.8S–.10 157.57E–.10 17 4.0b,4.1
NEIC IV 17 10 54 45.0–.54 8.82S 157.66E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=21.8km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=12.9km az=155.9.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=12.9km az=153.0.
IDC IV 18 19 39 51.9–1.9 8.06S 158.66E 0 4.2s,4.2
¶17201440
IDC Error ellipse: s-maj=40.4km s-min=29.6km az=35.0.
ISC IV 19 04 15 50.8–1.2 5.7S–.20 154.8E–.20 100 3.8b 8 8-152
ISCJB IV 19 04 15 50.8–.71 5.6S–.10 154.8E–.10 100 3.7b **¶17201465**
IDC IV 19 04 16 00.4–3.9 5.90S 154.63E 184–36 4.4s,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.0km s-min=10.2km az=143.5.
IDC Error ellipse: s-maj=24.9km s-min=21.3km az=149.0.
ISC IV 23 04 16 55.3–.22 10.36S–.03 161.25E–.03 86–1 6.5b 2120 2-175
BJI IV 23 04 16 52.4 10.35S 161.30E 80 6.6s,6.5 **¶602546183**
ISCJB IV 23 04 16 53.5–.59 10.40S–.02 161.22E–.02 80–5 6.5b,6.5
GCMT IV 23 04 16 54.7–.00 10.47S 161.32E 77–0 6.8W,6.5
NEIC IV 23 04 16 54.7–.09 10.38S 161.20E 79 6.8W,6.8W
IDC IV 23 04 16 54.8–.56 10.38S 161.33E 84–4 6.3,6.0
MOS IV 23 04 16 55.9–.94 10.30S 161.19E 102 6.5b,6.4s
NEIC IV 23 04 16 55.0–.00 10.35S 161.23E 81 6.5b,6.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.5km az=25.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c376; s146,c687;Duration: 6s3 Moment tensor: Scale 10^{19} Nm; M_{rr}0.37±.01 $M_{\theta\theta}$-0.99±.01; $M_{\phi\phi}$0.62±.01; $M_{r\theta}$-1.39±.01; $M_{\theta\phi}$1.37±.01; $M_{\phi r}$-0.23±.01; Best double couple: NP1:ϕ_s259.00000°,δ84.00000°,λ43.00000°. NP2:ϕ_s164.00000°,δ47.00000°,λ172.00000°. Principal axes: T 2.0050,Plg34.0000°,Azm131.0000° ; N 0.2650,Plg47.0000°,Azm265.0000°; P -2.2700,Plg24.0000°,Azm23.0000° M_o2.13700×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=107.0. Felt [V] at Honiara. Also felt at Tulagi. Complex earthquake observed on broadband displacement seismograms. A small event is followed by at least one other event about 2 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. M_o1.10000×10^{19} Moment Tensor Solution. s73 Moment tensor: Scale 10^{19}Nm; M_{rr}0.34 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$0.36 $M_{r\theta}$-1.27 $M_{\theta\phi}$1.13 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ170.00000°. NP2:ϕ_s262.00000°,δ83.00000°,λ47.00000°. Principal axes: T 1.7300,Plg37.0000°,Azm136.0000° ; N 0.1500,Plg42.0000°,Azm269.0000°; P -1.8800,Plg26.0000°,Azm24.0000° M_o1.80000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ21.00000°,λ166.00000°. NP2:ϕ_s260.00000°,δ85.00000°,λ70.00000°. Principal axes: T Plg46.0000°,Azm149.0000°; N Plg0.0000°,Azm0.0000°; P Plg37.0000° ,Azm8.0000°
IDC Error ellipse: s-maj=10.4km s-min=7.4km az=58.0.
MOS Error ellipse: s-maj=6.6km s-min=5.4km az=90.6.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{19}Nm; M_{rr}0.24 $M_{\theta\theta}$-0.91 $M_{\phi\phi}$0.66 $M_{r\theta}$-1.16 $M_{\theta\phi}$1.26 $M_{\phi r}$-0.26 Best double couple: NP1:ϕ_s257.00000°,δ86.00000°,λ40.00000°. NP2:ϕ_s163.00000°,δ50.00000°,λ174.00000°. Principal axes: T 1.8200,Plg30.0000°,Azm127.0000°; N 0.1700,Plg50.0000°,Azm261.0000° ; P -1.9900,Plg23.0000°,Azm23.0000° M_o1.90000×10^{19}
ISC IV 23 09 21 06.0–.53 10.41S–.07 161.46E–.09 61 4.2b 31 2-96
ISCJB IV 23 09 21 04.8–.43 10.39S–.06 161.28E–.08 61 4.3b **¶16577869**
IDC IV 23 09 21 08.9–.62 10.42S 161.34E 86–5 4.3,4.1
NEIC IV 23 09 21 10.7–.84 10.40S 161.22E 100–7 4.2b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=8.5km az=1.2.
IDC Error ellipse: s-maj=12.5km s-min=9.7km az=52.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.5km az=113.0.
ISC IV 25 16 29 50.2–.81 9.4S–.20 157.94E–.09 27 4.0b 12 2-97
IDC IV 25 16 29 46.1–.90 9.34S 157.94E 0 4.3,4.1b **¶16577889**
ISCJB IV 25 16 29 48.6–.59 9.4S–.10 157.89E–.06 27 4.0b,3.5s
NEIC IV 25 16 29 51.0–.50 9.42S 157.99E 35 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=29.7km s-min=18.1km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=20.3km s-min=8.4km az=172.6.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=10.1km az=155.0.
ISC IV 25 16 42 06.5–.75 9.4S–.20 158.09E–.06 27 4.3b,3.6s 18 2-100
IDC IV 25 16 42 02.6–.86 9.22S 157.92E 0 4.4L,4.2 **¶16577891**
ISCJB IV 25 16 42 05.3–.53 9.3S–.10 157.92E–.06 27 4.1b,3.6s
NEIC IV 25 16 42 06.9–6.6 9.36S 158.03E 29–49 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=18.3km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=17.5km s-min=8.9km az=172.8.
NEIC Event type se. Error ellipse: s-maj=23.5km s-min=11.5km az=145.0.
ISC IV 25 23 05 30.5–1.1 10.0S–.10 160.6E–.10 37 3.8b 11 1-96
IDC IV 25 23 05 24.9–1.3 10.01S 160.58E 0 4.2,4.0b **¶17202088**
ISCJB IV 25 23 05 28.7–.98 10.09S–.09 160.5E–.10 37 3.8b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 11 21 10.9–1.1 7.0S–.20 155.4E–.20 50 3.9b 12 9-153
ISCJB IV 26 11 21 09.6–.89 7.0S–.20 155.3E–.10 50 3.9b **¶17202128**
IDC IV 26 11 21 09.8–6.2 7.04S 155.57E 42–54 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.6km s-min=9.9km az=146.9.
IDC Error ellipse: s-maj=46.0km s-min=28.3km az=116.0.
ISC IV 26 17 46 35.6–1.5 11.3S–.20 163.3E–.20 35 3.7b 9 4-92
ISCJB IV 26 17 46 33.5–1.5 11.5S–.10 163.2E–.20 33 3.6b **¶17202172**
IDC IV 26 17 46 37.4–3.7 11.28S 163.21E 53–28 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.3km s-min=9.0km az=146.6.
IDC Error ellipse: s-maj=38.2km s-min=19.4km az=56.0.
ISC IV 26 22 20 29.3–.48 9.97S–.07 160.42E–.07 37 4.9b,4.2s 67 1-165
IDC IV 26 22 20 23.4–.68 10.00S 160.48E 0 4.5,4.3 **¶16649425**
ISCJB IV 26 22 20 27.6–.30 10.06S–.05 160.39E–.05 37 4.7b,4.2s
NEIC IV 26 22 20 28.8–3.5 10.00S 160.36E 32–24 4.9b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=15.1km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=6.6km az=33.2.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.6km az=120.0.
IDC IV 26 23 30 16.7–1.7 10.01S 160.01E 0 4.0,3.8
¶17202196
IDC Error ellipse: s-maj=33.0km s-min=15.5km az=109.0.
ISC IV 27 03 53 54.1–.57 6.64S–.10 154.82E–.08 150 4.0b 35 6-153
ISCJB IV 27 03 53 52.7–.46 6.67S–.07 154.89E–.07 150 4.2b **¶17202205**
IDC IV 27 03 53 53.2–2.2 6.62S 154.80E 144–22 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.4km az=149.6.
IDC Error ellipse: s-maj=18.4km s-min=14.3km az=127.0.
ISC IV 28 07 42 38.5–.29 10.06S–.04 160.60E–.04 37 5.4s,5.2b 339 1-165
IDC IV 28 07 42 32.5–.70 10.28S 160.46E 0 5.1s,5.1 **¶16505559**
NEIC IV 28 07 42 34.0–.00 9.98S 160.33E 15 5.1s,5.1
NEIC IV 28 07 42 34.9–.18 9.97S 160.49E 11 5.7W,5.7W
GCMT IV 28 07 42 35.3–.10 10.23S 160.45E 12 5.6W,5.7W
MOS IV 28 07 42 36.7–1.2 10.01S 160.43E 33 5.2b,5.2s
BJI IV 28 07 42 37.1 9.56S 160.41E 12 5.5b,5.5s
ISCJB IV 28 07 42 37.0–.16 10.09S–.03 160.47E–.03 37 5.4s,5.1b
ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.35 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.34 $M_{r\theta}$3.96 $M_{\theta\phi}$0.67 $M_{\phi r}$-3.06 Best double couple: NP1:ϕ_s129.00000° ,δ83.00000°,λ81.00000°. NP2:ϕ_s0.00000°,δ11.00000°,λ141.00000°. Principal axes: T 5.3000,Plg51.0000°,Azm29.0000°; N -0.1500,Plg8.0000°,Azm130.0000° ; P -5.1500,Plg37.0000°,Azm227.0000° M_o5.20000×10^{17}
NEIC Event type se. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.45 $M_{\theta\theta}$-1.78 $M_{\phi\phi}$2.23 $M_{r\theta}$1.82 $M_{\theta\phi}$-1.37 $M_{\phi r}$-2.84 Best double couple: NP1: ϕ_s312.00000°,δ85.00000°,λ-121.00000°. NP2:ϕ_s214.00000°,δ32.00000°,λ-10.00000°.

Principal axes: T 4.7400,Plg33.0000°,Azm68.0000°; N -1.6000,Plg31.0000°,Azm315.0000° ; P -3.1400,Plg42.0000°,Azm193.0000° $M_0$4.20000×10^{17}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c167; s126,c263;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50±.02 $M_{\theta\theta}$-0.43±.02; $M_{\phi\phi}$-1.06±.02; $M_{r\theta}$1.81±.07; $M_{\theta\phi}$0.73±.02; $M_{\phi r}$-2.39±.07; Best double couple: NP1:ϕ_s143.00000°,δ77.00000°,λ88.00000°. NP2:ϕ_s330.00000° ,δ14.00000°,λ97.00000°. Principal axes: T 3.3430,Plg58.0000°,Azm51.0000° ; N 0.0460,Plg2.0000°,Azm144.0000°; P -3.3820,Plg32.0000°,Azm235.0000° $M_0$3.36300×10^{17}

ISCJB Event type se.

ISC	**V**	**01 16 12 42.5–.20**	**6.94S–.03**	**155.83E–.03**	**54–1**	**5.9b,5.2s**	**1568**	**5-163**	
NEIC	V	01 16 12 41.4–.09	6.95S	155.86E	46	5.9W,5.8W			**¶16577941**
ISCJB	V	01 16 12 41.9–.61	6.96S–.02	155.80E–.02	62–5	5.8b,5.8W			
MOS	V	01 16 12 41.9–.98	6.93S	155.80E	61	5.7b,5.1s			
BJI	V	01 16 12 41.3	6.75S	155.89E	54	5.5b,5.5b			
GCMT	V	01 16 12 42.3–.10	7.16S	155.76E	54–0	5.8W,5.5b			
IDC	V	01 16 12 43.0–.41	6.97S	155.86E	56–3	5.7,5.4			
NEIC	V	01 16 12 43.0–.00	6.99S	155.60E	58	5.7,5.4			
DJA	V	01 16 12 47.6–.70	7S–3.0	156E–4.0	91–8	6.1b,5.9b			
NEIC	V	01 16 12 58.1–.00	6.62S	155.63E	53	6.1b,5.9b			

ISC Event type fe.

NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=3.0km az=116.0. Felt at Arawa. Also felt at Gizo, Solomon Islands. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}5.83 $M_{\theta\theta}$-4.40 $M_{\phi\phi}$-1.43 $M_{r\theta}$-0.63 $M_{\theta\phi}$3.77 $M_{\phi r}$-0.04 Best double couple: NP1: ϕ_s300.00000°,δ47.00000°,λ84.00000°. NP2:ϕ_s129.00000°,δ43.00000°,λ97.00000°. Principal axes: T 5.8900,Plg85.0000°,Azm149.0000°; N 1.1000,Plg5.0000°,Azm304.0000° ; P -6.9900,Plg2.0000°,Azm34.0000° $M_0$6.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ45.00000°,λ126.00000°. NP2: ϕ_s320.00000°,δ55.00000°,λ60.00000°. Principal axes: T Plg65.0000°,Azm173.0000° ; N Plg0.0000°,Azm0.0000°; P Plg6.0000°,Azm71.0000°

ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=15.5.

MOS Error ellipse: s-maj=6.4km s-min=5.4km az=102.5.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c256; s124,c343;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}6.02±.06 $M_{\theta\theta}$-4.04±.05; $M_{\phi\phi}$-1.98±.05; $M_{r\theta}$-0.92±.05; $M_{\theta\phi}$3.61±.04; $M_{\phi r}$-0.34±.05; Best double couple: NP1: ϕ_s299.00000°,δ48.00000°,λ78.00000°. NP2:ϕ_s136.00000°,δ43.00000°,λ103.00000°. Principal axes: T 6.1670,Plg81.0000°,Azm142.0000°; N 0.6200,Plg9.0000°,Azm306.0000° ; P -6.7860,Plg2.0000°,Azm37.0000° $M_0$6.47700×10^{17}

IDC Error ellipse: s-maj=9.7km s-min=7.8km az=78.0.

NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}5.49 $M_{\theta\theta}$-3.28 $M_{\phi\phi}$-2.21 $M_{r\theta}$-0.57 $M_{\theta\phi}$3.09 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s305.00000° ,δ47.00000°,λ84.00000°. NP2:ϕ_s135.00000°,δ43.00000°,λ97.00000°. Principal axes: T 5.5300,Plg84.0000°,Azm152.0000°; N 0.3600,Plg4.0000°,Azm309.0000° ; P -5.8900,Plg1.0000°,Azm39.0000° $M_0$5.70000×10^{17}

NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}8.10 $M_{\theta\theta}$-4.46 $M_{\phi\phi}$-3.64 $M_{r\theta}$-1.37 $M_{\theta\phi}$3.92 $M_{\phi r}$0.84 Best double couple: NP1:ϕ_s310.00000° ,δ51.00000°,λ87.00000°. NP2:ϕ_s134.00000°,δ39.00000°,λ93.00000°. Principal axes: T 8.2600,Plg84.0000°,Azm202.0000°; N -0.1200,Plg2.0000°,Azm312.0000° ; P -8.1400,Plg6.0000°,Azm42.0000° $M_0$8.20000×10^{17}

ISC	**V**	**01 20 04 43.6–.55**	**6.88S–.09**	**155.87E–.07**	**100**	**3.8b**	**27**	**5-161**	
ISCJB	V	01 20 04 41.8–.54	6.92S–.08	155.90E–.06	100	3.8b			**¶17202558**
IDC	V	01 20 04 46.0–2.4	6.98S	155.77E	121–21	4.0,3.7			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.4km az=177.7.

IDC Error ellipse: s-maj=18.8km s-min=15.8km az=151.0.

ISC	**V**	**02 16 41 49.0–.42**	**10.08S–.06**	**160.50E–.07**	**37**	**4.8b,3.4s**	**149**	**1-159**	
IDC	V	02 16 41 43.9–.59	10.03S	160.42E	0	4.6,4.5			**¶16577959**
BJI	V	02 16 41 45.1	9.74S	160.43E	6	5.1b,5.0s			
NEIC	V	02 16 41 46.5–1.3	10.04S	160.46E	18–8	5.0b,5.0s			
ISCJB	V	02 16 41 47.5–.24	10.10S–.04	160.44E–.05	37	4.8b,3.5s			
MOS	V	02 16 41 47.1–.86	10.01S	160.42E	33	5.0b,3.5s			

ISC Event type se.

IDC Error ellipse: s-maj=16.8km s-min=12.9km az=88.0.

NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.7km az=125.0.

ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=37.4.

MOS Error ellipse: s-maj=12.4km s-min=10.0km az=103.5.

ISC	**V**	**03 07 54 48.6–.67**	**6.8S–.10**	**154.8E–.10**	**48**	**4.0b**	**28**	**6-153**	
IDC	V	03 07 54 41.8–.88	6.72S	154.76E	0	4.2,4.0			**¶16577966**
ISCJB	V	03 07 54 47.3–.65	6.8S–.10	154.6E–.10	48	4.0b,3.3s			
NEIC	V	03 07 54 48.2–2.3	6.75S	154.68E	44–19	4.1b,3.3s			

ISC Event type se.

IDC Error ellipse: s-maj=33.8km s-min=16.8km az=124.0.

ISCJB Event type se. Error ellipse: s-maj=20.9km s-min=10.4km az=33.8.

NEIC Event type se. Error ellipse: s-maj=19.0km s-min=11.9km az=102.0.

ISC	**V**	**03 08 21 46.0–.56**	**6.82S–.10**	**154.85E–.09**	**39**	**4.1b,3.3s**	**31**	**6-153**	
ISCJB	V	03 08 21 44.7–.47	6.81S–.07	154.74E–.07	39	4.0b,3.4s			**¶16577967**
IDC	V	03 08 21 49.4–4.0	6.89S	154.69E	68–34	4.1,4.0			
NEIC	V	03 08 21 50.6–2.4	6.92S	154.62E	78–21	4.3b,4.0			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=7.9km az=138.8.

IDC Error ellipse: s-maj=22.0km s-min=18.2km az=94.0.

NEIC Event type se. Error ellipse: s-maj=17.6km s-min=13.8km az=82.0.

ISC	**V**	**04 12 15 15.0–1.2**	**6.9S–.20**	**155.11E–.10**	**31**	**3.7b**	**11**	**5-153**	
IDC	V	04 12 15 31.1–2.4	7.27S	155.16E	189–23	4.1,3.6			**¶17202754**

ISC Event type ke.

IDC Error ellipse: s-maj=25.7km s-min=19.0km az=170.0.

IDC	**V**	**04 23 19 27.2–1.9**	**6.84S**	**154.77E**	**0**	**3.9,3.7**			**¶17202805**

IDC Error ellipse: s-maj=93.5km s-min=26.4km az=130.0.

ISC	**V**	**05 20 47 42.2–.61**	**6.0S–.10**	**154.84E–.08**	**89**	**4.2b**	**25**	**6-153**	
ISCJB	V	05 20 47 40.9–.56	6.05S–.09	154.83E–.06	89	4.2b			**¶16708962**
IDC	V	05 20 47 44.9–2.0	6.09S	154.77E	112–16	4.4,4.1			
NEIC	V	05 20 47 45.3–1.1	6.08S	154.77E	118–9	4.6b,4.1			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=8.9km az=172.9.

IDC Error ellipse: s-maj=16.5km s-min=13.9km az=25.0.

NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.9km az=199.0.

IDC	**V**	**06 02 10 53.8–2.2**	**7.08S**	**154.94E**	**0**	**3.8,3.7**			**¶17202888**

IDC Error ellipse: s-maj=78.6km s-min=29.1km az=120.0.

IDC	**V**	**06 10 18 11.2–2.5**	**6.98S**	**155.91E**	**0**	**3.8,3.6**			**¶17202913**

IDC Error ellipse: s-maj=95.2km s-min=38.5km az=119.0.

ISC	**V**	**08 00 52 07.6–2.2**	**7.3S–.20**	**156.2E–.40**	**44**	**4.2b**	**13**	**24-128**	
IDC	V	08 00 52 02.5–2.8	7.06S	155.83E	0	3.9,3.8			**¶16577231**
NEIC	V	08 00 52 02.5–1.1	7.27S	156.24E	10	4.4b,3.8			
ISCJB	V	08 00 52 05.5–2.2	7.3S–.20	156.2E–.40	44	4.3b,3.8			

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.

IDC	**V**	**08 16 06 16.8–5.8**	**7.93S**	**157.83E**	**0**	**3.8,3.7**			**¶17203056**

IDC Error ellipse: s-maj=118.4km s-min=31.2km az=9.0.

IDC	**V**	**08 21 17 20.9–3.8**	**6.44S**	**154.92E**	**0**	**3.5,3.3**			**¶17203078**

IDC Error ellipse: s-maj=185.0km s-min=56.7km az=129.0.

ISC	**V**	**08 23 20 42.2–.95**	**6.9S–.10**	**155.77E–.07**	**100**	**3.7b**	**12**	**5-154**	
ISCJB	V	08 23 20 40.7–.89	6.9S–.10	155.77E–.06	100	3.7b			**¶17203088**
IDC	V	08 23 20 44.0–2.3	7.06S	155.77E	120–22	4.1,3.8			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=7.6km az=6.5.

IDC Error ellipse: s-maj=24.3km s-min=15.0km az=178.0.

IDC	**V**	**10 08 05 31.3–3.2**	**7.10S**	**155.99E**	**99–29**	**4.1,3.9**			**¶17203191**

IDC Error ellipse: s-maj=42.8km s-min=22.4km az=170.0.

ISC	**V**	**10 15 15 24.6–.73**	**7.0S–.10**	**155.13E–.08**	**41**	**4.0b**	**19**	**5-99**	
IDC	V	10 15 15 19.1–.86	6.89S	155.02E	0	4.3,4.1			**¶16577256**
ISCJB	V	10 15 15 23.1–.63	7.1S–.10	155.05E–.09	41	4.0b,4.1			
NEIC	V	10 15 15 23.8–.52	7.06S	155.14E	35	4.5b,4.1			

ISC Event type se.

IDC Error ellipse: s-maj=41.6km s-min=17.2km az=136.0.

ISCJB Event type se. Error ellipse: s-maj=21.7km s-min=9.1km az=154.0.

NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.8km az=152.0.

ISC	**V**	**11 05 12 15.8–.71**	**5.66S–.09**	**154.36E–.10**	**200**	**3.8b**	**16**	**8-152**	
IDC	V	11 05 12 13.4–3.0	5.63S	154.45E	177–27	4.0,3.7			**¶17203355**
ISCJB	V	11 05 12 14.2–.63	5.68S–.09	154.44E–.09	200	3.8b,3.7			

ISC Event type ke.

ISCJB Event type ke.

ISC	**V**	**11 05 47 12.6–.36**	**7.05S–.06**	**155.83E–.05**	**62**	**4.8b**	**119**	**5-161**	
ISCJB	V	11 05 47 11.2–.30	7.01S–.05	155.83E–.04	62	4.7b			**¶16505621**
IDC	V	11 05 47 14.7–1.7	7.00S	155.87E	86–16	4.6,4.3			
NEIC	V	11 05 47 16.3–.87	7.08S	155.80E	99–7	4.8b,4.3			
DJA	V	11 05 47 56.2–.80	9S–4.0	153E–5.0	214–7	4.9,4.8b			

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

ISC	**V**	**11 10 32 45.0–1.2**	**11.0S–.20**	**162.4E–.10**	**46**	**3.7b**	**11**	**3-96**	
IDC	V	11 10 32 52.0–6.2	10.69S	161.92E	100–48	4.1,3.9			**¶17203381**

ISC Event type ke.

IDC Error ellipse: s-maj=58.8km s-min=23.8km az=130.0.

ISC	**V**	**12 04 44 45.7–.29**	**6.98S–.05**	**155.81E–.05**	**62**	**4.9b**	**225**	**5-161**	
ISCJB	V	12 04 44 44.3–.23	6.97S–.04	155.83E–.04	62	4.9b			**¶16560038**
MOS	V	12 04 44 46.0–1.0	6.97S	155.82E	75	5.0b			
IDC	V	12 04 44 48.9–1.7	7.05S	155.80E	91–15	4.6,4.4			
NEIC	V	12 04 44 48.4–.72	7.01S	155.85E	88–6	4.9b,4.4			
DJA	V	12 04 44 50.1–.90	7S–4.0	156E–7.0	89–8	5.9b,5.5			

ISC Event type se.

ISCJB Event type se.

NEIC Event type se.

ISC	**V**	**12 15 42 44.1–.39**	**6.87S–.06**	**155.82E–.05**	**62**	**4.6b**	**77**	**5-154**	
ISCJB	V	12 15 42 42.6–.33	6.97S–.05	155.74E–.05	62	4.7b			**¶16709697**
NEIC	V	12 15 42 47.5–.83	7.08S	155.81E	98–7	4.7b			
IDC	V	12 15 42 49.0–1.9	7.08S	155.80E	107–18	4.4,4.1			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.3km az=140.7.

NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.9km az=207.0.

IDC Error ellipse: s-maj=15.3km s-min=12.4km az=172.0.

ISC	**V**	**13 10 23 14.3–1.2**	**7.5S–.30**	**154.8E–.20**	**27**	**3.7b**	**10**	**8-153**	
IDC	V	13 10 23 10.2–1.3	7.43S	154.69E	0	4.0,3.8			**¶17203543**
ISCJB	V	13 10 23 13.1–.00	7.5S–.20	154.7E–.10	27	3.6b,3.8			

ISC Event type ke.

ISCJB Event type ke.

IDC	**V**	**13 14 05 57.2–2.1**	**6.97S**	**154.83E**	**0**	**3.9,3.7b**			**¶17203552**

IDC Error ellipse: s-maj=96.3km s-min=30.2km az=128.0.

ISC	**V**	**13 19 32 52.4–.37**	**6.81S–.06**	**154.75E–.05**	**41**	**4.6b,3.9s**	**105**	**4-153**	
ISCJB	V	13 19 32 50.1–.27	6.90S–.05	154.83E–.04	41	4.5b,3.9s			**¶16512059**
NEIC	V	13 19 32 54.4–.76	6.89S	154.78E	67–7	4.6b,3.9s			
IDC	V	13 19 32 55.4–2.2	6.93S	154.70E	71–20	4.3,4.1			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.6km az=141.1.

NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.8km az=129.0.

IDC Error ellipse: s-maj=15.9km s-min=12.2km az=173.0.

ISC	**V**	**15 18 37 10.9–.25**	**6.07S–.03**	**154.43E–.03**	**47–1**	**6.2b,6.1s**	**1569**	**3-168**	
MOS	V	15 18 37 08.4–1.2	6.02S	154.46E	41	6.3b,6.1s			**¶16512224**
BJI	V	15 18 37 09.0	6.15S	154.35E	45	6.3b,6.1s			
ISCJB	V	15 18 37 09.3–.62	6.09S–.02	154.45E–.02	43–5	6.1s,6.1b			
NEIC	V	15 18 37 10.4–.12	6.10S	154.41E	40	6.5W,6.5W			
NEIC	V	15 18 37 10.0–.00	5.96S	154.45E	43	6.5W,6.5W			
GCMT	V	15 18 37 10.4–.10	6.22S	154.44E	53–0	6.5W,6.5W			
IDC	V	15 18 37 11.4–1.4	6.10S	154.45E	49–12	5.9,5.8			
DJA	V	15 18 37 15.8–.60	6S–2.0	155E–3.0	78–5	6.9,6.6b			
NEIC	V	15 18 37 29.0–.00	5.97S	153.81E	53	6.9,6.6b			

ISC Event type se.

MOS Error ellipse: s-maj=7.0km s-min=5.5km az=95.2.

ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.5km az=30.3.

NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.6km az=125.0. Complex earthquake, with at least one larger event about 3 seconds after the onset observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.10000×10^{19} Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}6.42 $M_{\theta\theta}$-2.67 $M_{\phi\phi}$-3.75 $M_{r\theta}$-0.27 $M_{\theta\phi}$2.84 $M_{\phi r}$2.08 Best double couple: NP1:ϕ_s132.00000° ,δ38.00000°,λ76.00000°. NP2:ϕ_s329.00000°,δ54.00000°,λ101.00000°. Principal axes: T 6.8400,Plg78.0000°,Azm279.0000°; N -0.4900,Plg9.0000°,Azm143.0000° ; P -6.3500,Plg8.0000°,Azm52.0000° $M_0$6.60000×10^{18}

NEIC Event type se. Moment Tensor Solution. s67 Moment tensor: Scale 10^{18}Nm; M_{rr}5.74 $M_{\theta\theta}$-2.29 $M_{\phi\phi}$-3.45 $M_{r\theta}$0.28 $M_{\theta\phi}$1.97 $M_{\phi r}$1.18 Best double couple: NP1:ϕ_s331.00000° ,δ50.00000°,λ100.00000°. NP2:ϕ_s136.00000°,δ41.00000°,λ78.00000°. Principal axes: T 5.9200,Plg81.0000°,Azm295.0000°; N -0.9400,Plg7.0000°,Azm144.0000° ; P -4.9800,Plg4.0000°,Azm54.0000° $M_0$5.50000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c354; s141,c568;Duration: 4s1 Moment tensor: Scale 10^{18} Nm; M_{rr}5.94±.03 $M_{\theta\theta}$-3.01±.02; $M_{\phi\phi}$-2.93±.03; $M_{r\theta}$-0.76±.03; $M_{\theta\phi}$3.22±.02; $M_{\phi r}$0.59±.02; Best double couple: NP1:ϕ_s314.00000°,δ49.00000°,λ89.00000°. NP2:ϕ_s136.00000° ,δ41.00000°,λ92.00000°. Principal axes: T 6.0170,Plg85.0000°,Azm211.0000° ; N 0.2480,Plg1.0000°,Azm314.0000°; P -6.2650,Plg4.0000°,Azm45.0000° $M_0$6.14100×10^{18}

IDC Error ellipse: s-maj=10.1km s-min=7.9km az=73.0.

NEIC Event type se. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}7.15 $M_{\theta\theta}$-3.33 $M_{\phi\phi}$-3.82 $M_{r\theta}$-0.43 $M_{\theta\phi}$3.61 $M_{\phi r}$-0.16 Best double couple: NP1:ϕ_s140.00000° ,δ44.00000°,λ95.00000°. NP2:ϕ_s314.00000°,δ46.00000°,λ85.00000°. Principal axes: T 7.1700,Plg87.0000°,Azm149.0000°; N 0.0200,Plg3.0000°,Azm317.0000° ; P -7.1900,Plg1.0000°,Azm47.0000° $M_0$7.20000×10^{18}

ISC	**V**	**15 22 04 03.9–.87**	**6.88S–.06**	**155.03E–.05**	**66–8**	**4.7b**	**115**	**4-131**	
ISCJB	V	15 22 04 02.0–1.2	6.97S–.05	155.03E–.05	65–10	4.6b			**¶16524509**
IDC	V	15 22 04 02.9–2.1	6.91S	154.97E	61–19	4.4,4.3			
NEIC	V	15 22 04 04.3–.74	6.98S	155.03E	74–7	4.8b,4.3			

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=7.7km az=1.4.

IDC Error ellipse: s-maj=13.1km s-min=12.2km az=172.0.

NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.6km az=112.0.

ISC	**V**	**15 23 25 05.3–.49**	**6.84S–.04**	**155.10E–.04**	**29–3**	**5.3b,4.9s**	**358**	**4-163**	
ISCJB	V	15 23 25 00.7–.94	6.84S–.02	155.09E–.03	8–5	5.2b,4.9s			**¶16516461**
BJI	V	15 23 25 03.6	6.85S	154.90E	20	5.2b,4.9b			
NEIC	V	15 23 25 04.0–.00	7.03S	154.84E	21	5.2b,4.9b			
MOS	V	15 23 25 05.0–1.2	6.85S	155.06E	40	5.4b,4.7s			
NEIC	V	15 23 25 06.2–.14	6.86S	155.06E	35	5.5W,5.4b			
IDC	V	15 23 25 06.9–1.5	6.93S	155.10E	45–14	4.7,4.6			
GCMT	V	15 23 25 06.2–.10	7.15S	155.00E	25–0	5.5W,4.6			
DJA	V	15 23 25 23.7–2.2	8S–10	154E–14	88–13	5.7,5.6b			

ISC Event type se.

ISCJB Event type se.

NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}1.60 $M_{\theta\theta}$-1.00 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.60 $M_{\theta\phi}$0.60 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s112.00000° ,δ69.00000°,λ82.00000°. NP2:ϕ_s314.00000°,δ21.00000°,λ110.00000°. Principal axes: T 2.4000,Plg64.0000°,Azm9.0000°; N -0.3000,Plg7.0000°,Azm115.0000° ; P -2.1000,Plg24.0000°,Azm208.0000° $M_0$2.00000×10^{17}

NEIC Event type se.

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c175; s115,c202;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.45±.03 $M_{\theta\theta}$-0.97±.02; $M_{\phi\phi}$-0.47±.02; $M_{r\theta}$1.03±.05; $M_{\theta\phi}$0.76±.02; $M_{\phi r}$-0.94±.05; Best double couple: NP1:ϕ_s131.00000°,δ67.00000°,λ94.00000°. NP2:ϕ_s301.00000° ,δ24.00000°,λ81.00000°. Principal axes: T 2.0080,Plg68.0000°,Azm48.0000° ; N 0.0680,Plg3.0000°,Azm309.0000°; P -2.0750,Plg22.0000°,Azm218.0000° $M_0$2.04100×10^{17}

ISC	**V**	**16 05 26 45.5–.76**	**7.1S–.20**	**155.4E–.10**	**50**	**4.0b**	**13**	**5-153**	
IDC	V	16 05 26 38.9–1.1	6.99S	155.33E	0	4.3,4.1b			**¶16709988**
NEIC	V	16 05 26 40.3–.48	7.02S	155.35E	10	4.1b,4.1b			
ISCJB	V	16 05 26 44.1–.64	7.1S–.10	155.41E–.07	50	4.0b,3.2s			

ISC Event type se.

NEIC Event type se.

ISCJB Event type se.
ISC V 16 11 56 41.9–1.2 6.9S–.30 154.8E–.20 41 3.7b 10 6-153
ISCJB V 16 11 56 40.6–1.0 6.9S–.20 154.7E–.10 41 3.7b,3.1s **¶17203745**
IDC V 16 11 56 47.2–5.6 6.98S 154.52E 90–47 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.4km s-min=10.4km az=149.5.
IDC Error ellipse: s-maj=45.7km s-min=27.1km az=126.0.
IDC V 17 05 34 46.0–3.6 6.40S 154.52E 0 4.0,3.9
¶17203789

IDC Error ellipse: s-maj=116.3km s-min=25.4km az=114.0.
IDC V 17 10 45 53.5–2.3 6.77S 154.85E 0 3.9,3.5
¶17203816

IDC Error ellipse: s-maj=140.6km s-min=29.2km az=132.0.
IDC V 18 02 55 33.7–1.6 7.46S 155.49E 0 4.1,3.9b
¶17203851

IDC Error ellipse: s-maj=69.8km s-min=26.2km az=134.0.
IDC V 19 10 03 31.8–5.7 8.24S 158.62E 0 4.0,3.8
¶17203961

IDC Error ellipse: s-maj=116.0km s-min=22.0km az=20.0.
ISC V 21 04 35 40.1–.45 10.08S–.07 160.78E–.07 67 4.6b 67 1-100
IDC V 21 04 35 30.2–.59 10.07S 161.02E 0 4.5L,4.4 **¶16532335**
NEIC V 21 04 35 36.9–1.2 10.02S 160.94E 41–11 4.8b,4.4
ISCJB V 21 04 35 38.2–.30 10.09S–.05 160.87E–.06 67 4.4b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 23 05 23 53.7–2.1 6.81S 155.23E 0 4.0,3.7
¶17204282

IDC Error ellipse: s-maj=75.6km s-min=30.2km az=126.0.
ISC V 23 22 38 40.7–.74 11.1S–.10 162.2E–.10 36 3.8b,3.4s 13 3-99
ISCJB V 23 22 38 38.8–.63 11.19S–.08 162.21E–.09 36 3.8b,3.4s **¶16545185**
IDC V 23 22 38 45.7–14 11.13S 161.97E 80–133 4.4L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=9.8km az=140.9.
IDC Error ellipse: s-maj=47.8km s-min=30.9km az=83.0.
ISC V 24 10 23 33.6–.93 10.3S–.10 161.3E–.10 67 4.0b 14 2-96
ISCJB V 24 10 23 31.3–.78 10.3S–.10 161.4E–.10 67 4.0b **¶17204370**
IDC V 24 10 23 36.8–2.8 10.24S 161.09E 91–19 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=12.6km az=43.0.
IDC Error ellipse: s-maj=31.7km s-min=16.6km az=102.0.
ISC V 25 12 49 28.4–.66 7.1S–.10 155.6E–.10 50 3.9b 17 5-154
IDC V 25 12 49 20.4–1.6 7.04S 156.02E 0 4.1,3.9b **¶16710903**
ISCJB V 25 12 49 27.2–.65 6.9S–.10 155.72E–.08 50 3.9b,3.8s
NEIC V 25 12 49 33.4–1.4 7.32S 156.01E 109–13 4.3b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=56.5km s-min=25.8km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=8.8km az=24.9.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=12.5km az=170.0.
ISC V 26 04 19 40.8–.34 7.11S–.06 155.83E–.06 100 4.6b 109 5-161
ISCJB V 26 04 19 38.9–.31 7.05S–.05 155.88E–.05 100 4.5b **¶16577322**
IDC V 26 04 19 40.9–1.9 7.04S 155.94E 104–17 4.4,4.2
NEIC V 26 04 19 41.8–.71 7.04S 155.85E 113–6 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.7km az=13.5.
IDC Error ellipse: s-maj=13.6km s-min=12.2km az=92.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.5km az=115.0.
IDC V 26 11 46 13.1–5.0 5.75S 154.56E 186–45 4.1,3.8
¶17204504

IDC Error ellipse: s-maj=37.8km s-min=18.1km az=102.0.
ISC V 26 20 36 18.6–.68 9.79S–.10 159.7E–.10 26 4.7b,3.7s 32 0-97
IDC V 26 20 36 14.5–.68 9.68S 159.65E 0 4.6,4.3b **¶16711009**
ISCJB V 26 20 36 17.1–.56 9.85S–.07 159.8E–.10 26 4.6b,3.6s
NEIC V 26 20 36 17.3–1.4 9.72S 159.58E 16–9 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=9.4km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=6.6km az=28.4.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=8.2km az=125.0.
ISC V 31 11 07 19.1–.86 10.9S–.10 163.86E–.10 29 4.0b 15 4-135
NEIC V 31 11 07 16.3–.70 10.87S 164.00E 10 4.3b **¶16702385**
ISCJB V 31 11 07 17.6–.77 10.92S–.10 163.81E–.08 29 3.9b,3.2s
IDC V 31 11 07 20.4–4.6 10.86S 163.85E 38–40 4.3L,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=13.4km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=10.3km az=24.5.
IDC Error ellipse: s-maj=34.6km s-min=21.9km az=144.0.
ISC VI 01 19 13 22.9–.58 7.13S–.09 155.82E–.08 100 4.3b 29 5-154
ISCJB VI 01 19 13 21.3–.54 7.10S–.07 155.76E–.09 100 4.2b **¶16856044**
IDC VI 01 19 13 21.8–2.1 7.11S 155.79E 87–18 4.3,4.0
NEIC VI 01 19 13 23.0–1.0 7.10S 155.75E 99–9 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=10.0km az=12.3.
IDC Error ellipse: s-maj=17.9km s-min=14.3km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.2km az=151.0.
ISC VI 01 20 07 38.7–.51 6.33S–.08 154.44E–.07 48 4.0b,3.8s 33 6-152
ISCJB VI 01 20 07 36.8–.48 6.32S–.07 154.46E–.07 48 4.1b,3.7s **¶16856047**
IDC VI 01 20 07 41.2–2.6 6.38S 154.36E 75–23 4.2,4.0
NEIC VI 01 20 07 42.6–1.5 6.43S 154.35E 86–14 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=8.6km az=135.1.
IDC Error ellipse: s-maj=17.3km s-min=15.9km az=75.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=12.4km az=142.0.
ISC VI 01 20 52 06.9–.57 9.2S–.10 158.11E–.07 29 4.2b,3.5s 24 2-146
IDC VI 01 20 52 02.4–.78 9.06S 158.08E 0 4.3,4.2 **¶16856052**
ISCJB VI 01 20 52 05.0–.50 9.09S–.09 158.06E–.09 29 4.2b,3.4s
NEIC VI 01 20 52 09.1–1.6 9.26S 158.24E 54–17 4.6b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=15.7km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=10.1km az=136.5.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=10.1km az=145.0.
ISC VI 02 01 23 57.8–.99 5.2S–.10 154.4E–.20 400 3.8b 14 14-152
ISCJB VI 02 01 23 56.5–1.0 5.2S–.10 154.2E–.20 400 3.9b **¶17204931**
IDC VI 02 01 23 57.0–4.7 5.24S 154.36E 394–48 4.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.1km s-min=12.6km az=16.4.
IDC Error ellipse: s-maj=36.4km s-min=15.0km az=97.0.
IDC VI 02 05 21 25.7–2.6 9.04S 161.37E 0 3.9,3.7
¶17204945

IDC Error ellipse: s-maj=76.8km s-min=32.2km az=146.0.
ISC VI 02 06 47 27.7–.32 10.39S–.04 161.33E–.04 84–2 5.2b 375 2-160
IDC VI 02 06 47 27.2–.46 10.43S 161.31E 79–3 4.9,4.8 **¶16722592**
ISCJB VI 02 06 47 27.7–.70 10.45S–.03 161.19E–.03 92–6 5.1b,4.8
MOS VI 02 06 47 28.5–.90 10.38S 161.15E 100 5.2b,4.4s
BJI VI 02 06 47 28.5 9.92S 161.45E 89 5.0b,4.9b
NEIC VI 02 06 47 29.3–.66 10.45S 161.23E 95–6 5.3b,4.9b
GCMT VI 02 06 47 29.3–.10 10.45S 161.27E 81–1 5.3W,4.9b
ISC Event type fe.
IDC Error ellipse: s-maj=11.2km s-min=6.7km az=39.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.3km az=21.1.
MOS Error ellipse: s-maj=8.5km s-min=7.3km az=90.1.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=89.0. Felt at Honiara.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c168; s112,c211; Duration: 1$\mathfrak{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.02 $M_{\theta\theta}$-0.83±.02; $M_{\phi\phi}$0.09±.02; $M_{r\theta}$-0.67±.01; $M_{\theta\phi}$0.68±.02; $M_{\phi r}$-0.27±.01; Best double couple: NP1:ϕ_{κ}268.00000°,δ67.00000°,λ53.00000°. NP2:ϕ_{θ}150.00000°,δ43.00000°,λ144.00000°. Principal axes: T 1.2180,Plg53.0000°,Azm133.0000°; N 0.0880,Plg33.0000°,Azm284.0000°; P -1.3060,Plg14.0000°,Azm24.0000° $M_0$1.26200×10^{17}
ISC VI 03 04 22 41.7–1.7 8.7S–.20 158.9E–.30 500 3.6b 9 17-87
ISCJB VI 03 04 22 40.7–1.4 8.8S–.20 158.9E–.30 500 3.5b **¶17205056**
IDC VI 03 04 22 44.6–8.8 8.79S 158.79E 532–101 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.4km s-min=17.8km az=26.8.
IDC Error ellipse: s-maj=53.8km s-min=30.5km az=78.0.
ISC VI 04 02 39 33.7–1.3 7.1S–.20 154.1E–.20 35 3.9b 12 7-152
IDC VI 04 02 39 28.0–1.5 7.10S 154.25E 0 4.0,3.9 **¶16646372**
ISCJB VI 04 02 39 31.7–1.1 7.1S–.10 154.1E–.20 33 3.9b,3.4s
NEIC VI 04 02 39 33.8–.84 7.04S 154.07E 35 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=55.0km s-min=21.0km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=33.7km s-min=14.9km az=28.8.
NEIC Event type se. Error ellipse: s-maj=25.6km s-min=11.9km az=121.0.
IDC VI 04 10 51 36.8–1.6 6.43S 154.37E 0 4.0,3.9
¶17205189

IDC Error ellipse: s-maj=59.6km s-min=25.3km az=136.0.
ISC VI 06 18 52 40.6–1.1 7.5S–.20 155.3E–.10 29 3.9b 12 8-160
NEIC VI 06 18 52 36.6–11 7.53S 155.34E 4–65 4.1b **¶16856509**
IDC VI 06 18 52 36.0–1.2 7.49S 155.34E 0 4.0,3.8
ISCJB VI 06 18 52 39.2–.89 7.5S–.20 155.2E–.10 29 3.7b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 07 13 10 10.9–3.9 6.97S 156.52E 0 3.7,3.6
¶17205488

IDC Error ellipse: s-maj=99.2km s-min=45.4km az=118.0.
IDC VI 08 11 04 15.6–3.0 11.14S 163.29E 0 4.1L,3.6
¶17205552

IDC Error ellipse: s-maj=53.1km s-min=44.4km az=76.0.
IDC VI 10 08 46 19.2–1.8 6.73S 154.89E 0 3.8,3.7
¶17205694

IDC Error ellipse: s-maj=57.4km s-min=26.4km az=124.0.
IDC VI 10 13 22 29.5–1.4 7.48S 156.11E 0 4.5,4.5s
¶17205708

IDC Error ellipse: s-maj=36.9km s-min=29.3km az=122.0.
IDC VI 10 13 30 57.5–1.4 7.14S 155.73E 0 3.9L,3.8
¶17205709

IDC Error ellipse: s-maj=36.2km s-min=29.3km az=18.0.
ISC VI 10 13 42 27.2–.51 7.42S–.06 156.18E–.05 49–4 4.7b,3.9s 143 4-161
ISCJB VI 10 13 42 24.9–1.1 7.39S–.05 156.17E–.04 46–10 4.7b,4.0s **¶16587362**
NEIC VI 10 13 42 26.9–.98 7.43S 156.20E 52–9 4.8b,4.0s
BJI VI 10 13 42 27.8 7.14S 156.08E 58 5.0b,4.8b
IDC VI 10 13 42 28.1–2.4 7.38S 156.12E 54–21 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=7.2km az=154.9.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.3km az=104.0.
IDC Error ellipse: s-maj=16.0km s-min=11.4km az=83.0.
ISC VI 10 18 50 50.4–.86 10.5S–.10 161.4E–.10 61 3.7b 11 2-90
ISCJB VI 10 18 50 48.2–.88 10.7S–.10 161.4E–.10 61 3.8b **¶17205727**
IDC VI 10 18 50 52.0–2.5 10.54S 161.32E 80–19 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=12.4km az=44.2.
IDC Error ellipse: s-maj=23.2km s-min=19.4km az=85.0.
IDC VI 13 17 51 26.3–3.0 6.99S 154.36E 0 3.6,3.3
¶17206060

IDC Error ellipse: s-maj=118.4km s-min=41.2km az=124.0.
IDC VI 13 22 07 04.6–3.6 6.62S 154.76E 0 3.8,3.6b
¶17206072

IDC Error ellipse: s-maj=131.3km s-min=37.7km az=117.0.
ISC VI 15 02 46 09.0–1.7 7.0S–.30 154.7E–.20 41 3.8b 10 8-153
IDC VI 15 02 46 02.3–1.9 7.00S 154.88E 0 4.1,3.9 **¶17206150**
ISCJB VI 15 02 46 08.3–1.7 6.8S–.30 154.5E–.20 41 3.8b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 05 33 36.9–.47 9.3S–.10 158.93E–.06 27 4.3b 39 1-157
IDC VI 16 05 33 32.6–.54 9.25S 158.94E 0 4.3,4.3b **¶16720933**
ISCJB VI 16 05 33 35.1–.38 9.28S–.08 158.84E–.04 27 4.3b,4.3b
NEIC VI 16 05 33 37.8–.31 9.32S 158.92E 35 4.2b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=14.1km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=5.8km az=6.1.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.8km az=143.0.
IDC VI 17 12 26 02.6–16 4.75S 154.40E 93–143 4.3,4.2L
¶17206387

IDC Error ellipse: s-maj=119.0km s-min=36.7km az=13.0.
ISC VI 18 00 21 39.1–.60 10.72S–.09 162.22E–.09 54 4.2b,3.7s 24 3-161
ISCJB VI 18 00 21 37.1–.61 10.92S–.09 162.17E–.09 54 4.2b,3.6s **¶16714866**
IDC VI 18 00 21 38.5–.75 10.85S 162.19E 52–6 4.2,4.1
NEIC VI 18 00 21 41.6–1.1 10.80S 161.96E 78–10 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=10.2km az=42.0.
IDC Error ellipse: s-maj=18.6km s-min=11.2km az=32.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=9.6km az=74.0.
ISC VI 18 23 18 07.2–.79 8.7S–.10 159.0E–.10 150 3.7b 12 1-83
ISCJB VI 18 23 18 05.7–.68 8.7S–.10 159.0E–.10 150 3.6b **¶17206495**
IDC VI 18 23 18 07.0–1.1 8.65S 158.94E 145–15 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=11.6km az=39.1.
IDC Error ellipse: s-maj=29.2km s-min=19.0km az=107.0.
IDC VI 21 07 47 40.1–8.0 7.62S 157.78E 0 4.1,3.9
¶17206664

IDC Error ellipse: s-maj=228.0km s-min=29.9km az=115.0.
ISC VI 21 09 58 54.8–.41 8.53S–.05 159.70E–.08 35 4.5b 58 1-158
ISCJB VI 21 09 58 53.0–.33 8.47S–.04 159.63E–.06 35 4.5b,3.6s **¶16731126**
IDC VI 21 09 58 56.5–.55 8.60S 159.79E 55–4 4.4,4.3
NEIC VI 21 09 58 58.0–1.1 8.55S 159.78E 68–10 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.1km az=4.2.
IDC Error ellipse: s-maj=19.3km s-min=11.6km az=95.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=8.2km az=120.0.
ISC VI 24 11 48 12.9–1.2 7.1S–.20 155.1E–.20 41 3.9b 12 8-153
ISCJB VI 24 11 48 11.6–1.0 7.0S–.20 155.0E–.20 41 3.9b **¶17206866**
IDC VI 24 11 48 15.1–5.9 7.25S 155.27E 69–47 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.3km s-min=11.8km az=40.4.
IDC Error ellipse: s-maj=63.8km s-min=21.6km az=118.0.
ISC VI 24 19 49 19.5–.29 5.94S–.05 154.55E–.05 450 4.7b 206 3-152
IDC VI 24 19 49 17.3–.68 5.86S 154.52E 420–6 4.9,4.1 **¶16681346**
ISCJB VI 24 19 49 18.5–.19 5.89S–.03 154.42E–.04 450 4.6b,4.1
DJA VI 24 19 49 18.8–.70 6S–4.0 154E–6.0 465–9 5.1b,4.8
NEIC VI 24 19 49 18.1–.39 5.88S 154.51E 431–4 4.8b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=8.0km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=38.3.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=109.0.
IDC VI 25 17 35 56.7–17 6.51S 154.15E 170–158 3.3,3.1
¶17206928

IDC Error ellipse: s-maj=104.8km s-min=48.6km az=134.0.
ISC VI 27 18 32 25.3–.55 10.32S–.07 162.02E–.08 54 4.5b,3.7s 43 2-148
ISCJB VI 27 18 32 23.8–.47 10.29S–.06 161.92E–.08 54 4.4b,3.7s **¶16731634**
NEIC VI 27 18 32 26.8–1.3 10.25S 161.91E 63–11 4.7b,3.7s
IDC VI 27 18 32 26.3–2.9 10.30S 161.88E 60–24 4.7L,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=8.9km az=10.5.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.7km az=97.0.
IDC Error ellipse: s-maj=23.0km s-min=14.6km az=96.0.
IDC VI 28 08 40 43.8–5.4 9.50S 156.88E 0 3.7,3.6
¶17207131

IDC Error ellipse: s-maj=98.0km s-min=75.1km az=178.0.

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IDC I 05 00 17 50.5–1.9 10.05S 155.61E 0 3.6,3.5
¶17189465

IDC Error ellipse: s-maj=75.5km s-min=28.5km az=123.0.
IDC I 05 14 00 37.7–2.7 8.92S 153.38E 0 3.6,3.5
¶17189510

IDC Error ellipse: s-maj=88.8km s-min=27.7km az=106.0.
IDC I 05 14 12 59.5–2.6 8.98S 153.69E 0 3.8,3.7
¶17189511

IDC Error ellipse: s-maj=86.5km s-min=24.9km az=107.0.
ISC I 13 07 47 59.7–1.3 9.0S–.20 153.7E–.20 35 4.1b 10 6-152
IDC I 13 07 47 53.9–1.4 9.05S 153.84E 0 4.1,4.0 **¶17190039**
ISCJB I 13 07 47 58.3–1.2 9.0S–.10 153.6E–.20 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 22 06 38 52.3–1.3 9.9S–.20 152.2E–.20 35 3.7b,3.2s 8 5-151
IDC I 22 06 38 46.8–1.5 9.89S 152.31E 0 4.0,3.8 **¶17190722**
ISCJB I 22 06 38 50.8–1.2 9.9S–.10 152.1E–.20 33 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC II 16 16 11 42.8–3.9 9.20S 152.93E 0 3.5,3.4
¶17192376

IDC Error ellipse: s-maj=90.2km s-min=35.1km az=118.0.
IDC IV 03 21 18 45.2–3.2 9.64S 154.11E 0 3.6,3.5
¶17199701

IDC Error ellipse: s-maj=103.8km s-min=32.9km az=117.0.
IDC IV 03 23 20 42.1–2.6 10.03S 155.20E 0 4.0,3.7
¶17199715

IDC Error ellipse: s-maj=79.0km s-min=28.7km az=126.0.
IDC IV 24 06 40 11.4–1.7 9.81S 154.30E 0 3.9,3.7
¶17201938

IDC Error ellipse: s-maj=60.6km s-min=22.9km az=115.0.
ISC V 15 08 22 07.8–1.6 9.7S–.20 151.9E–.40 17 3.9b 8 5-151
ISCJB V 15 08 22 05.6–1.1 9.8S–.10 152.0E–.20 17 3.7b,3.3s **¶17203680**
IDC V 15 08 22 05.2–1.6 9.66S 151.85E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.5km s-min=17.4km az=32.0.
IDC Error ellipse: s-maj=61.6km s-min=23.5km az=114.0.
IDC V 23 07 36 35.1–5.9 9.48S 153.74E 0 3.8,3.6
¶17204290

IDC Error ellipse: s-maj=169.0km s-min=41.7km az=115.0.
ISC VI 04 15 35 49.5–1.8 8.3S–.30 154.6E–.20 35 4.0b 11 5-153
IDC VI 04 15 35 44.1–1.9 8.30S 154.64E 0 4.1,4.0 **¶17205232**
ISCJB VI 04 15 35 47.9–1.5 8.2S–.20 154.5E–.20 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 20 42 20.5–.43 8.10S–.06 154.24E–.05 35 4.6b,3.2s 53 4-153
IDC VI 04 20 42 15.2–.95 8.20S 154.14E 0 3.9,3.9 **¶16856337**
ISCJB VI 04 20 42 18.3–.30 8.17S–.04 154.16E–.04 33 4.6b,3.1s
NEIC VI 04 20 42 19.7–2.8 8.17S 154.19E 30–21 5.2b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=18.1km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.7km az=23.6.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.3km az=149.0.
IDC VI 10 01 37 12.9–6.7 10.47S 155.11E 0 3.6,3.5
¶17205675

IDC Error ellipse: s-maj=193.2km s-min=34.6km az=119.0.
IDC VI 14 22 15 08.9–3.9 9.10S 154.44E 0 4.0,3.8
¶17206135

IDC Error ellipse: s-maj=118.4km s-min=30.9km az=120.0.

SEISMIC REGION 16.
New Guinea.

(196) Irian Jaya region.

ISC I 03 08 05 16.0–.90 4.95S–.06 133.49E–.07 25 17 1-71
ISCJB I 03 08 05 15.0–.70 5.04S–.04 133.63E–.08 25 3.7b **¶17189309**
IDC I 03 08 05 15.7–1.3 5.10S 133.12E 0 4.3,4.3L
DJA I 03 08 05 23.9–1.0 4S–5.0 134E–7.0 98–10 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 04 06 15 55.5–.56 3.61S–.06 131.34E–.06 24 4.4b 30 1-152
IDC I 04 06 15 51.8–.61 3.64S 131.32E 0 4.4,4.3 **¶16032742**
ISCJB I 04 06 15 53.3–.48 3.68S–.05 131.46E–.06 24 4.2b,4.3
NEIC I 04 06 15 53.9–4.7 3.65S 131.33E 14–29 4.5b,4.3
DJA I 04 06 15 56.7–.60 4S–4.0 132E–5.0 64–16 5.4b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 05 03 45 05.5–1.5 0.99S 134.57E 0 3.9,3.9s
¶17189476

IDC Error ellipse: s-maj=38.1km s-min=22.7km az=75.0.
IDC I 05 19 33 25.6–4.0 4.50S 133.77E 93–35 3.4,3.3
¶17189530

IDC Error ellipse: s-maj=86.1km s-min=18.9km az=69.0.
ISC I 07 11 23 10.6–.80 0.21S–.08 132.61E–.07 35 4.2b,3.6s 24 1-86
IDC I 07 11 23 06.1–.80 0.28S 132.70E 0 4.7L,4.3 **¶16031128**
ISCJB I 07 11 23 09.0–.54 0.27S–.05 132.63E–.07 33 4.1b,3.6s
NEIC I 07 11 23 11.2–2.2 0.32S 132.69E 37–21 4.2b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=7.4km az=169.4.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=11.9km az=59.0.
ISC I 10 05 24 31.3–.90 3.69S–.08 134.84E–.08 24 3.9b 20 1-88
IDC I 10 05 24 27.7–1.1 3.73S 134.78E 0 4.1,4.1L **¶17189821**
ISCJB I 10 05 24 29.0–.65 3.83S–.07 134.80E–.08 24 3.9s,3.8b
DJA I 10 05 24 36.6–.90 3S–5.0 135E–3.0 12–9 4.3,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 14 16 55 38.2–.88 0.70S–.05 133.07E–.04 50–8 4.7b,4.0s 118 1-153
BJI I 14 16 55 29.6 1.35S 133.49E 35 5.1b,5.0s **¶15928097**
IDC I 14 16 55 31.2–.57 0.61S 133.12E 0 4.9L,4.7
MOS I 14 16 55 34.6–.92 0.58S 133.20E 40 4.9b,4.7
NEIC I 14 16 55 36.3–.29 0.65S 133.17E 35 4.8b,4.7
ISCJB I 14 16 55 37.5–.49 0.78S–.04 133.06E–.03 66–5 4.5b,4.7
DJA I 14 16 55 37.0–.50 1S–7.0 133E–2.0 10 5.4b,5.3b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 21 11 19 49.4–1.5 1.42N 132.30E 0 4.1,3.9
¶17190673

IDC Error ellipse: s-maj=59.3km s-min=18.7km az=84.0.
ISC I 21 17 51 26.8–1.1 0.14S–.08 130.02E–.04 35 21 1-63
IDC I 21 17 51 23.7–2.4 0.51S 129.42E 0 3.4,3.2 **¶17190687**
ISCJB I 21 17 51 25.1–.67 0.16S–.07 130.00E–.04 33 3.2b,3.2
DJA I 21 17 51 25.9–.60 0S–6.0 130E–3.0 53–14 4.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 22 13 21 25.7–.60 0.53S–.03 132.66E–.03 14–3 5.2b,4.1s 350 1-167
BJI I 22 13 21 21.2 0.77S 132.49E 5 5.1b,5.1b **¶15958000**
IDC I 22 13 21 23.3–.41 0.44S 132.71E 0 5.0,5.0
ISCJB I 22 13 21 26.0–1.1 0.46S–.03 132.79E–.03 33–8 5.1b,4.1s
MOS I 22 13 21 26.2–1.1 0.45S 132.62E 33 5.3b,4.0s
GCMT I 22 13 21 28.2–.20 0.38S 132.68E 31–0 5.1W,4.0s
DJA I 22 13 21 28.7–.70 0S–4.0 133E–2.0 21–7 5.5b,5.5
NEIC I 22 13 21 28.2–.95 0.49S 132.58E 35–9 5.2b,5.5
ISC Event type fe.
IDC Error ellipse: s-maj=15.0km s-min=10.6km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=143.4.
MOS Error ellipse: s-maj=12.4km s-min=5.4km az=113.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c75; s79,c112; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.27±.18 $M_{\theta\theta}$-3.01±.12; $M_{\phi\phi}$-1.26±.13; $M_{r\theta}$-1.56±.13; $M_{\theta\phi}$2.08±.07; $M_{\phi r}$2.01±.18; Best double couple: NP1:ϕ_s313.00000°,δ60.00000°,λ99.00000°. NP2:ϕ_s114.00000°,δ31.00000°,λ74.00000°. Principal axes:
T 5.0220,Plg73.0000°,Azm246.0000°; N 0.0040,Plg8.0000°,Azm128.0000°; P -5.0260,Plg15.0000°,Azm36.0000° $M_0$5.02400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.2km az=223.0. Felt [III] at Sorong and [II] at Manokwari.
IDC I 23 06 42 58.0–2.4 3.04S 133.45E 0 4.2,4.0
¶17190781

IDC Error ellipse: s-maj=79.2km s-min=21.7km az=71.0.
IDC I 23 18 19 23.5–1.9 0.36S 132.41E 0 3.6,3.5L
¶17190821

IDC Error ellipse: s-maj=28.4km s-min=26.6km az=62.0.
IDC I 24 00 08 47.8–2.2 1.29S 134.20E 0 3.3,3.2
¶17190841

IDC Error ellipse: s-maj=58.1km s-min=26.6km az=67.0.
DJA I 24 09 27 41.2–1.7 1S–12 131E–12 10 3.4,3.4
¶601989949
IDC I 25 23 58 55.5–4.4 3.93S 135.35E 0 3.8,3.7b
¶17190995

IDC Error ellipse: s-maj=217.1km s-min=30.3km az=80.0.
IDC I 27 01 14 51.9–3.1 5.00S 133.68E 0 3.5,3.3
¶17191069

IDC Error ellipse: s-maj=131.4km s-min=29.3km az=82.0.
ISC I 27 17 45 12.6–.76 0.33S–.07 133.12E–.05 32 3.9b 26 1-86
IDC I 27 17 45 07.6–1.1 0.34S 133.12E 0 4.0,3.8 **¶16135972**
ISCJB I 27 17 45 10.7–.59 0.33S–.06 133.15E–.05 32 3.9b,3.8
NEIC I 27 17 45 12.7–.64 0.39S 133.17E 35 4.0b,3.8
DJA I 27 17 45 12.2–.60 0S–5.0 133E–3.0 10 4.7b,4.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 30 17 35 58.6–1.1 0.70S–.06 133.28E–.04 50–11 3.6b 33 1-86
IDC I 30 17 35 51.2–1.1 0.77S 133.52E 0 3.8,3.8L **¶17191342**
ISCJB I 30 17 35 57.8–.58 0.74S–.05 133.28E–.03 69–6 3.4b,3.8L
DJA I 30 17 35 57.8–.70 1S–4.0 133E–3.0 12–7 5.4b,4.8
ISC Event type ke.
ISCJB Event type ke.
IDC II 01 21 08 09.8–2.6 4.07S 136.38E 0 3.6,3.5
¶17191514

IDC Error ellipse: s-maj=71.4km s-min=26.6km az=79.0.
ISC II 03 01 18 43.9–.99 4.97S–.07 132.28E–.09 35 13 2-98
IDC II 03 01 18 39.4–2.6 4.99S 132.36E 0 4.1,4.0L **¶17191568**
ISCJB II 03 01 18 42.3–.58 5.08S–.04 132.36E–.09 33 3.7b,3.3s
DJA II 03 01 18 49.6–1.2 5S–8.0 133E–5.0 10 4.2,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC II 03 22 33 32.8–.81 2.96S–.08 135.90E–.09 33 4.0b 14 2-86
ISCJB II 03 22 33 30.9–.75 2.9S–.10 136.0E–.10 33 4.2b **¶16328665**
NEIC II 03 22 33 33.2–.65 2.87S 136.05E 35 4.0b
IDC II 03 22 33 33.6–3.7 3.00S 135.97E 0 4.2,4.0
DJA II 03 22 33 41.8–1.9 3S–7.0 135E–18 186–13 4.4,4.4b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 05 00 02 31.4–.56 4.44S–.06 133.30E–.06 21 4.4b 27 1-88
IDC II 05 00 02 29.0–2.9 4.35S 133.38E 0 4.1,4.0b **¶16328735**
ISCJB II 05 00 02 29.8–.43 4.39S–.05 133.43E–.07 21 4.7b,4.0b
NEIC II 05 00 02 30.3–.35 4.40S 133.44E 10 4.2b,4.0b
DJA II 05 00 02 31.7–.60 4S–4.0 134E–4.0 10 4.7b,4.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
DJA II 06 00 11 19.1–.40 2S–4.0 134E–5.0 19–4 5.8b,5.3
¶602001115
ISC II 09 21 25 09.0–1.1 2.9S–.20 136.6E–.10 34 3.5b 8 4-87
IDC II 09 21 25 04.3–1.1 2.79S 136.50E 0 3.8,3.6 **¶17191964**
ISCJB II 09 21 25 07.0–.80 2.8S–.10 136.74E–.08 34 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC II 10 19 44 08.2–5.2 5.00S 132.81E 0 3.7,3.7L
¶17192034

IDC Error ellipse: s-maj=321.3km s-min=31.7km az=76.0.
ISC II 10 23 23 57.4–.63 0.26S–.07 132.34E–.09 35 4.1b,3.7s 38 1-86
IDC II 10 23 23 52.2–.84 0.24S 132.42E 0 4.4,4.2 **¶16269130**
DJA II 10 23 23 53.0–1.6 0S–12 133E–10 10 5.4b,4.9
ISCJB II 10 23 23 55.3–.47 0.24S–.05 132.38E–.05 33 4.0b,3.8s
NEIC II 10 23 23 58.0–2.0 0.33S 132.26E 40–19 4.1b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=37.6km s-min=15.5km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.6km az=172.7.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=6.1km az=62.0.
ISC II 11 07 57 53.7–.73 0.34S–.07 132.38E–.06 33 3.8b 19 1-86
IDC II 11 07 57 48.5–1.1 0.40S 132.28E 0 3.9,3.9L **¶17192060**
ISCJB II 11 07 57 53.1–.60 0.24S–.06 132.31E–.06 33 3.8b,3.0s
DJA II 11 07 57 53.6–.50 0S–6.0 132E–2.0 10 5.7b,5.2
ISC Event type ke.
ISCJB Event type ke.
ISC II 11 10 43 41.1–1.3 0.5S–.10 132.00E–.07 35 7 1-64
IDC II 11 10 43 37.1–4.0 0.74S 131.14E 0 3.6,3.4 **¶17192071**
ISCJB II 11 10 43 39.1–1.3 0.3S–.10 132.07E–.08 33 3.5b,3.4
DJA II 11 10 43 42.4–.90 1S–13 132E–3.0 10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
DJA II 12 10 23 15.2–.40 2S–6.0 134E–14 25–19 4.0b,3.6
¶602001510
DJA II 15 19 23 10.0–1.4 0S–15 133E–3.0 10 3.6,3.6
¶602001668
IDC II 17 00 04 59.3–3.1 4.97S 133.90E 0 3.9,3.8
¶17192393

IDC Error ellipse: s-maj=131.3km s-min=28.3km az=82.0.
ISC II 18 05 07 33.5–.98 0.18S–.08 131.80E–.06 10 4.1b 14 1-86
ISCJB II 18 05 07 31.8–.66 0.07S–.06 131.75E–.05 10 4.0b,3.7s **¶17192459**
IDC II 18 05 07 34.2–1.1 0.65S 130.09E 0 4.2,4.0
DJA II 18 05 07 35.4–1.3 0S–13 132E–5.0 10 4.7,4.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 18 22 05 36.8–2.8 4.18S 135.78E 0 3.7,3.5
¶17192508

IDC Error ellipse: s-maj=101.9km s-min=28.7km az=85.0.
ISC II 20 17 27 42.1–.98 2.83S–.05 134.05E–.09 24 11 1-67
IDC II 20 17 27 38.5–3.2 2.88S 134.01E 0 3.6,3.4 **¶17192596**
ISCJB II 20 17 27 40.3–.91 3.00S–.05 134.18E–.08 24 3.3b,3.4
DJA II 20 17 27 43.5–.50 3S–3.0 134E–5.0 10 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
IDC II 22 11 45 57.4–2.5 0.75S 133.36E 0 3.8,3.6
¶17192702

IDC Error ellipse: s-maj=101.0km s-min=26.0km az=79.0.
ISC II 27 23 54 34.5–.42 0.56S–.06 135.65E–.05 26 4.3b,4.3s 62 2-151
IDC II 27 23 54 30.7–.53 0.55S 135.57E 0 4.3,4.2 **¶16399132**
ISCJB II 27 23 54 32.6–.35 0.54S–.04 135.69E–.04 26 4.2b,4.2s
NEIC II 27 23 54 32.9–2.5 0.55S 135.61E 15–16 4.3b,4.2s
DJA II 27 23 54 37.7–.50 1S–6.0 135E–2.0 10 5.2b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC III 01 12 04 49.1–8.8 4.71S 134.52E 209–103 4.1,3.5
¶17193071

IDC Error ellipse: s-maj=41.1km s-min=37.5km az=60.0.
ISC III 02 09 28 36.0–4.2 0.75S–.40 135.6E–.10 26 7 2-32
IDC III 02 09 28 28.7–16 0.29S 135.27E 0 3.8,3.8s **¶17193120**
DJA III 02 09 28 34.6–1.7 0S–15 136E–16 96–24 3.9,3.9
ISC Event type ke.

IDC III 03 15 30 48.2–5.4 3.70S 132.88E 0 3.7,3.6L
¶17193195
IDC Error ellipse: s-maj=308.5km s-min=17.8km az=79.0.
IDC III 03 18 14 50.4–3.2 3.32S 135.78E 0 3.7,3.5
¶17193202
IDC Error ellipse: s-maj=130.3km s-min=32.6km az=80.0.
IDC III 03 23 04 33.9–5.7 4.97S 133.48E 0 3.5,3.4L
¶17193211
IDC Error ellipse: s-maj=334.0km s-min=31.3km az=77.0.
IDC III 04 01 46 45.5–3.1 4.49S 135.60E 0 3.7,3.5
¶17193215
IDC Error ellipse: s-maj=138.5km s-min=30.7km az=80.0.
ISC III 04 05 45 17.4–1.2 4.96S–.09 133.9E–.20 21 8 15-69
IDC III 04 05 45 14.6–1.4 4.74S 134.01E 0 3.7,3.6 **¶17193222**
ISCJB III 04 05 45 15.7–1.0 4.89S–.08 133.8E–.10 21 3.4s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC III 04 08 56 44.1–1.3 2.32S–.07 134.3E–.20 27 8 1-67
IDC III 04 08 56 37.7–3.9 2.07S 134.39E 0 3.7,3.5 **¶17193225**
DJA III 04 08 56 47.3–.40 2S–3.0 134E–8.0 10 3.6,3.6
ISC Event type ke.
ISC III 04 14 49 19.3–.80 0.02N–.08 130.23E–.06 35 4.0b 23 1-77
IDC III 04 14 49 13.3–1.4 0.28N 130.63E 0 4.1,3.9 **¶16425229**
NEIC III 04 14 49 14.9–.77 0.22N 130.40E 10 4.1b,3.9
ISCJB III 04 14 49 17.9–.67 0.00N–.08 130.22E–.05 33 4.0b,3.1s
DJA III 04 14 49 18.3–1.4 0S–6.0 130E–3.0 12–11 4.1,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 08 23 17 35.1–5.7 4.80S 133.29E 0 3.6,3.4
¶17193500
IDC Error ellipse: s-maj=343.9km s-min=30.6km az=76.0.
IDC III 10 14 10 42.4–3.1 0.63S 133.62E 0 3.8,3.7L
¶17193632
IDC Error ellipse: s-maj=153.3km s-min=29.0km az=75.0.
IDC III 11 01 55 51.1–4.0 3.40S 131.10E 0 3.4,3.2
¶17193671
IDC Error ellipse: s-maj=288.6km s-min=28.6km az=72.0.
ISC III 14 18 26 30.4–.43 3.60S–.05 131.33E–.06 24 4.6b 78 1-129
IDC III 14 18 26 27.0–.63 3.56S 131.22E 0 4.6,4.5 **¶16424494**
ISCJB III 14 18 26 29.1–.28 3.59S–.04 131.31E–.03 24 4.7b,4.5
DJA III 14 18 26 31.5–.90 3S–3.0 131E–2.0 16–12 5.5b,4.9
NEIC III 14 18 26 32.1–.93 3.55S 131.36E 36–10 4.5b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=13.6km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=176.6.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=49.0.
ISC III 15 05 32 48.7–.36 3.59S–.04 131.28E–.04 24 4.8b,4.2s 100 1-152
BJI III 15 05 32 44.0 3.96S 131.69E 33 4.9b,4.9s **¶16318241**
IDC III 15 05 32 44.9–.49 3.52S 131.32E 0 4.7,4.6
ISCJB III 15 05 32 46.8–.24 3.66S–.03 131.27E–.03 24 4.8b,4.2s
GCMT III 15 05 32 48.3–.40 3.47S 131.65E 22–1 5.0W,4.2s
NEIC III 15 05 32 48.3–1.6 3.60S 131.27E 21–12 4.9b,4.2s
DJA III 15 05 32 49.4–.80 4S–3.0 131E–2.0 19–10 5.2b,4.9b
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c34; s62,c82;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.10±.22 $M_{\theta\theta}$-1.06±.12; $M_{\phi\phi}$-2.05±.14; $M_{r\theta}$-0.79±.17; $M_{r\phi}$0.78±.07; $M_{\theta\phi}$1.85±.20; Best double couple: NP1:ϕ_s334.00000°,δ63.00000°,λ92.00000°. NP2:ϕ_s149.00000°,δ27.00000°,λ86.00000°. Principal axes: T 3.7510,Plg72.0000°,Azm249.0000°; N -0.6370,Plg2.0000°,Azm153.0000°; P -3.1240,Plg18.0000°,Azm63.0000° M_o3.43800×10^{16}
NEIC Event type se.
ISC III 15 13 04 18.7–1.4 0.5S–.10 131.92E–.08 35 7 1-64
DJA III 15 13 04 11.8–1.5 0N–14 132E–4.0 95–13 4.2b,4.2 **¶17196146**
ISCJB III 15 13 04 16.7–1.3 0.4S–.10 131.89E–.08 33 4.0b,4.2
IDC III 15 13 04 16.7–3.3 1.08S 130.06E 0 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=11.2km az=14.9.
IDC Error ellipse: s-maj=250.4km s-min=24.3km az=70.0.
IDC III 15 17 26 01.4–1.6 1.13S 136.75E 0 3.5,3.4b
¶17196202
IDC Error ellipse: s-maj=43.1km s-min=26.0km az=70.0.
ISC III 19 10 41 07.7–1.1 0.7S–.10 134.9E–.30 34 3.9b 8 19-86
IDC III 19 10 41 02.6–1.2 0.71S 134.90E 0 4.0,4.0L **¶17197193**
ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=16.8km az=88.0.
ISC III 19 21 41 36.8–1.3 4.5S–.10 135.0E–.40 16 3.4b 6 13-89
IDC III 19 21 41 34.0–1.4 4.36S 135.22E 0 3.9,3.8L **¶17197336**
ISC Event type ke.
IDC Error ellipse: s-maj=53.7km s-min=25.3km az=90.0.
IDC III 20 21 03 40.2–6.9 1.79S 133.41E 0 3.6,3.4
¶17197552
IDC Error ellipse: s-maj=402.8km s-min=28.9km az=76.0.
IDC III 21 22 13 33.6–3.3 2.23S 135.70E 0 3.3,3.2
¶17197765
IDC Error ellipse: s-maj=140.2km s-min=31.7km az=80.0.
ISC III 25 14 04 46.7–.59 4.78S–.06 134.26E–.05 22 3.8b 36 1-120
IDC III 25 14 04 44.6–.85 4.54S 134.19E 0 4.1,4.1L **¶16480840**
ISCJB III 25 14 04 44.8–.41 4.71S–.04 134.24E–.05 22 3.7b,4.1L
NEIC III 25 14 04 48.8–.61 4.67S 134.19E 35 4.3b,4.1L
DJA III 25 14 04 50.5–1.3 4S–4.0 134E–3.0 40–15 5.0b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC III 26 02 30 02.1–3.8 3.10S 135.87E 0 3.9,3.9b
¶17198591
IDC Error ellipse: s-maj=179.2km s-min=28.3km az=80.0.
ISC III 26 14 28 51.7–1.4 0.32S–.09 133.18E–.07 32 16 2-65
IDC III 26 14 28 47.6–2.8 0.42S 132.96E 0 3.6,3.6L **¶17198646**
ISCJB III 26 14 28 50.8–1.0 0.29S–.07 133.09E–.05 32 3.4b,3.6L
DJA III 26 14 28 53.4–.80 0S–5.0 133E–3.0 62–13 4.7b,4.2b
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 10 56 11.7–.99 2.1S–.10 136.39E–.10 35 3.7b 8 4-72
IDC III 27 10 56 06.7–1.1 2.03S 136.44E 0 3.9,3.8 **¶17198778**
ISCJB III 27 10 56 09.6–.74 2.1S–.10 136.39E–.07 33 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.
IDC III 27 16 23 24.3–6.8 3.38S 133.95E 0 3.4,3.2
¶17198810
IDC Error ellipse: s-maj=391.6km s-min=29.2km az=77.0.
IDC III 27 18 05 17.3–1.5 0.26N 130.23E 0 4.3,4.0
¶17198823
IDC Error ellipse: s-maj=56.3km s-min=14.6km az=50.0.
IDC III 27 20 38 44.0–1.7 0.28N 130.28E 0 3.9,3.7
¶17198845
IDC Error ellipse: s-maj=66.4km s-min=15.7km az=51.0.
IDC III 27 22 00 08.0–1.2 0.28N 130.22E 0 3.9,3.7
¶17198856
IDC Error ellipse: s-maj=53.9km s-min=13.0km az=52.0.
IDC III 28 05 55 10.0–2.3 0.73S 133.81E 0 3.9,3.9L
¶17198910
IDC Error ellipse: s-maj=102.4km s-min=22.1km az=80.0.
IDC III 29 06 22 07.1–12 0.78N 131.86E 0 4.0,3.9
¶17199039
IDC Error ellipse: s-maj=188.1km s-min=105.0km az=161.0.
ISC IV 01 06 17 42.5–.37 0.89S–.05 137.28E–.05 26 4.6b,3.8s 117 3-152
IDC IV 01 06 17 38.2–.53 0.76S 137.36E 0 4.7L,4.6 **¶16403133**
NEIC IV 01 06 17 39.9–3.8 0.83S 137.26E 8–23 4.8b,4.6
ISCJB IV 01 06 17 40.6–.23 0.92S–.03 137.25E–.03 26 4.6b,3.7s
DJA IV 01 06 17 41.3–1.6 1S–7.0 137E–3.0 24–15 5.3b,4.8
BJI IV 01 06 17 42.7 0.90S 137.10E 39 4.9b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=10.1km az=82.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.5km az=47.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=151.1.
ISC IV 01 09 15 29.7–.78 3.91S–.08 134.33E–.07 10 3.9b 13 1-68
ISCJB IV 01 09 15 28.0–.90 4.02S–.06 134.3E–.10 10 3.8b **¶17199404**
IDC IV 01 09 15 27.0–1.2 3.79S 134.93E 0 4.0,3.8
DJA IV 01 09 15 39.9–.70 3S–5.0 134E–5.0 10 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 07 59 09.4–.82 3.66S–.08 135.55E–.06 22 23 2-88
IDC IV 03 07 59 06.7–1.6 3.54S 135.61E 0 4.2,4.0 **¶17199630**
ISCJB IV 03 07 59 07.5–.48 3.66S–.06 135.57E–.04 22 3.7b,4.0
DJA IV 03 07 59 11.3–.30 4S–5.0 136E–2.0 53–14 5.4b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 04 16 21 23.4–.96 3.42S–.09 135.34E–.06 22 10 2-68
IDC IV 04 16 21 17.1–1.5 3.18S 135.39E 0 3.9,3.7 **¶17199787**
DJA IV 04 16 21 26.5–2.0 4S–4.0 136E–2.0 27–23 4.8b,4.3b
ISC Event type ke.
IDC IV 05 12 40 31.4–2.8 1.00S 134.84E 0 3.6,3.6L
¶17199892
IDC Error ellipse: s-maj=110.9km s-min=25.2km az=81.0.
IDC IV 05 19 16 24.9–2.4 2.64S 133.87E 0 3.5,3.4
¶17199920
IDC Error ellipse: s-maj=95.9km s-min=28.7km az=76.0.
IDC IV 06 10 59 28.1–6.0 3.49S 133.15E 0 3.8,3.5
¶17199997
IDC Error ellipse: s-maj=362.9km s-min=29.1km az=76.0.
IDC IV 06 21 09 06.9–7.0 4.31S 134.61E 0 3.4,3.2
¶17200054
IDC Error ellipse: s-maj=378.5km s-min=31.5km az=79.0.
IDC IV 06 22 37 27.8–4.1 3.01S 131.10E 0 3.6,3.6L
¶17200061
IDC Error ellipse: s-maj=291.5km s-min=27.9km az=72.0.
DJA IV 07 15 21 09.0–.50 1S–5.0 133E–2.0 10 3.5,3.5
¶602003896
IDC IV 09 11 52 00.0–2.8 2.25S 134.26E 0 4.0,3.8
¶17200333
IDC Error ellipse: s-maj=127.1km s-min=28.7km az=77.0.
IDC IV 09 12 59 25.6–2.2 2.30S 134.30E 0 4.3,4.3b
¶17200338
IDC Error ellipse: s-maj=61.6km s-min=24.1km az=73.0.
IDC IV 09 17 15 15.9–1.4 1.70S 136.85E 0 3.8,3.6
¶17200352
IDC Error ellipse: s-maj=75.1km s-min=26.3km az=92.0.
IDC IV 09 21 45 48.1–3.0 2.27S 134.27E 0 3.7,3.5
¶17200380
IDC Error ellipse: s-maj=132.9km s-min=30.6km az=77.0.
IDC IV 09 21 57 06.5–2.9 2.20S 134.25E 0 3.8,3.6
¶17200381
IDC Error ellipse: s-maj=132.7km s-min=28.7km az=77.0.
IDC IV 09 23 38 42.9–3.5 2.20S 134.49E 0 3.7,3.6
¶17200388
IDC Error ellipse: s-maj=161.1km s-min=30.9km az=77.0.
IDC IV 10 00 09 40.9–2.9 2.23S 134.22E 0 3.9,3.7
¶17200390
IDC Error ellipse: s-maj=127.9km s-min=29.8km az=77.0.
ISC IV 10 15 06 27.0–.87 2.32S–.07 134.05E–.09 27 4.0b 16 1-67
IDC IV 10 15 06 22.9–2.4 2.32S 134.18E 0 4.2,4.0L **¶17200474**
ISCJB IV 10 15 06 25.7–.60 2.37S–.05 134.01E–.06 27 3.8b,4.0L
DJA IV 10 15 06 26.2–.40 2S–3.0 134E–4.0 10 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 13 06 17 11.2–.57 3.62S–.07 131.20E–.07 30 4.0b,3.4s 23 1-149
NEIC IV 13 06 17 07.7–4.0 3.43S 131.06E 0–26 4.3b,3.4s **¶16587488**
IDC IV 13 06 17 07.7–.85 3.46S 131.04E 0 4.3,4.2b
ISCJB IV 13 06 17 09.8–.45 3.59S–.05 131.07E–.06 30 4.1b,3.2s
DJA IV 13 06 17 11.7–.40 4S–5.0 131E–4.0 10 5.3b,4.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 13 10 54 12.3–3.0 4.52S 133.35E 0 3.7,3.5
¶17200888
IDC Error ellipse: s-maj=130.4km s-min=28.3km az=81.0.
ISC IV 14 22 12 52.2–.81 3.33S–.04 131.32E–.04 41–8 4.5b 108 1-153
IDC IV 14 22 12 46.6–.49 3.34S 131.30E 0 4.2,4.2 **¶16489760**
BJI IV 14 22 12 47.7 3.65S 131.62E 39 5.1b,4.7b
ISCJB IV 14 22 12 49.5–.58 3.37S–.03 131.34E–.03 35–5 4.6b,4.0s
NEIC IV 14 22 12 51.3–1.5 3.34S 131.41E 34–11 4.5b,4.0s
DJA IV 14 22 12 53.3–.30 3S–4.0 131E–3.0 49–30 4.9b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 15 06 42 02.7–1.7 0.32S 133.02E 0 3.8,3.7
¶17201098
IDC Error ellipse: s-maj=83.3km s-min=19.4km az=76.0.
ISC IV 16 14 04 33.2–2.3 0.7S–.20 133.2E–.10 28 3.9b 9 2-65
IDC IV 16 14 04 28.3–1.8 0.55S 133.42E 0 4.0,3.8 **¶17201230**
DJA IV 16 14 04 32.6–1.4 0S–23 133E–20 38–47 4.9b,4.4b
ISC Event type ke.
ISC IV 17 11 41 17.3–.57 0.95S–.08 136.81E–.06 29 4.1b,3.2s 32 3-89
IDC IV 17 11 41 13.0–.70 0.96S 136.66E 0 4.2L,4.1 **¶16536013**
DJA IV 17 11 41 14.8–.60 1S–8.0 137E–3.0 10 5.0b,4.7
ISCJB IV 17 11 41 15.3–.39 0.98S–.06 136.82E–.04 29 4.1b,3.3s
NEIC IV 17 11 41 18.4–.46 0.96S 136.80E 35 4.4b,3.3s
ISC Event type fe.
IDC Error ellipse: s-maj=30.5km s-min=14.5km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.4km az=11.4.
NEIC Event type fe. Error ellipse: s-maj=15.7km s-min=8.7km az=67.0. Felt [III] at Biak.
ISC IV 18 15 10 06.5–.97 3.4S–.10 134.55E–.09 24 3.9b 8 6-70
IDC IV 18 15 10 03.3–1.3 3.32S 134.48E 0 4.0,3.8 **¶17201421**
ISCJB IV 18 15 10 04.3–.78 3.4S–.10 134.59E–.07 24 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 19 16 40 06.1–3.8 0.58S 135.68E 0 3.5,3.4b
¶17201520
IDC Error ellipse: s-maj=177.0km s-min=28.8km az=79.0.
IDC IV 20 05 33 58.0–2.9 0.68S 134.05E 0 3.4,3.4L
¶17201589
IDC Error ellipse: s-maj=144.3km s-min=26.5km az=76.0.
ISC IV 22 15 24 59.2–1.7 1.1S–.20 135.10E–.09 35 4.2b 20 1-41
ISCJB IV 22 15 24 57.0–.97 1.2S–.10 135.14E–.05 33 4.0b **¶16596726**
IDC IV 22 15 24 57.2–1.8 1.37S 135.19E 0 4.3,4.3L
DJA IV 22 15 25 00.4–1.2 1S–6.0 135E–8.0 25–7 5.1b,4.7
NEIC IV 22 15 25 02.2–1.3 1.47S 135.22E 35 4.0b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=7.1km az=7.5.
IDC Error ellipse: s-maj=36.4km s-min=21.6km az=42.0.
NEIC Event type se. Error ellipse: s-maj=21.0km s-min=17.6km az=189.0.
ISC IV 23 01 53 45.9–1.5 0.6S–.10 133.44E–.09 28 8 1-65
IDC IV 23 01 53 41.5–7.9 0.63S 133.72E 0 3.4,3.2 **¶17201851**
ISCJB IV 23 01 53 44.3–1.4 0.7S–.10 133.46E–.09 28 3.2b,3.2
DJA IV 23 01 53 45.6–.70 1S–9.0 133E–3.0 10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 23 11 33 53.9–5.6 4.90S 133.15E 0 3.6,3.5b
¶17201875
IDC Error ellipse: s-maj=337.4km s-min=30.6km az=76.0.

ISC IV 23 22 33 37.3–.31 1.62S–.04 136.73E–.05 23 4.8b,4.2s 166 3-150
IDC IV 23 22 33 33.0–.49 1.50S 136.59E 0 4.5,4.5b ¶16452981
BJI IV 23 22 33 33.0 1.82S 137.14E 34 5.1b,4.8b
DJA IV 23 22 33 34.7–.50 1S–10 137E–3.0 10 5.2b,5.1
ISCJB IV 23 22 33 34.7–.18 1.56S–.02 136.82E–.03 23 4.8b,4.2s
NEIC IV 23 22 33 36.9–1.6 1.58S 136.73E 24–12 4.9b,4.2s
MOS IV 23 22 33 36.3–1.2 1.62S 136.58E 33 5.1b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=10.9km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.5km az=158.1.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.7km az=60.0.
MOS Error ellipse: s-maj=12.3km s-min=6.0km az=103.1.
ISC IV 24 12 38 49.3–.53 1.46S–.07 136.83E–.07 32 4.2b,3.3s 48 3-150
IDC IV 24 12 38 44.4–.63 1.37S 136.82E 0 4.2,4.1L ¶16476073
ISCJB IV 24 12 38 47.3–.41 1.48S–.05 136.81E–.04 32 4.2b,3.3s
NEIC IV 24 12 38 49.8–.62 1.48S 136.79E 35 4.4b,3.3s
DJA IV 24 12 38 50.2–.40 1S–6.0 137E–3.0 41–10 4.9b,4.6
BJI IV 24 12 39 06.5 2.55S 136.33E 51 4.9b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=13.7km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=18.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=10.7km az=77.0.
IDC IV 24 22 54 27.6–1.8 4.22S 134.53E 0 4.2s,4.2
¶17201992
IDC Error ellipse: s-maj=63.8km s-min=25.6km az=72.0.
IDC IV 26 21 32 48.4–2.6 0.50S 132.06E 0 3.6,3.6L
¶17202187
IDC Error ellipse: s-maj=125.4km s-min=24.4km az=77.0.
IDC IV 27 12 39 31.2–2.3 3.64S 135.15E 0 4.0,4.0L
¶17202237
IDC Error ellipse: s-maj=94.0km s-min=30.0km az=80.0.
IDC IV 29 03 45 51.4–2.8 5.11S 135.27E 0 3.7L,3.7
¶17202344
IDC Error ellipse: s-maj=144.1km s-min=28.4km az=82.0.
ISC IV 30 12 38 03.0–1.3 1.03S–.09 130.63E–.10 35 8 1-64
DJA IV 30 12 37 57.5–1.8 1S–6.0 130E–10 10 4.0,4.0 ¶17202457
IDC IV 30 12 37 57.1–5.0 0.55S 131.72E 0 3.7,3.5
ISCJB IV 30 12 38 00.6–1.2 1.02S–.09 130.54E–.08 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 30 19 00 10.2–2.4 3.42S 135.59E 0 3.8,3.7b
¶17202472
IDC Error ellipse: s-maj=112.3km s-min=28.0km az=75.0.
ISC IV 30 23 32 32.0–.40 1.33N–.05 132.65E–.07 35 4.4b,3.2s 75 3-155
IDC IV 30 23 32 26.9–.51 1.42N 132.54E 0 4.2,4.1 ¶16485944
ISCJB IV 30 23 32 29.8–.26 1.35N–.03 132.66E–.04 33 4.3b,3.4s
NEIC IV 30 23 32 29.1–4.0 1.41N 132.68E 14–26 4.6b,3.4s
DJA IV 30 23 32 32.9–.80 1N–6.0 133E–6.0 10 5.2b,4.5b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 01 05 10 47.2–1.4 0.97S 130.49E 0 4.0,3.8
¶17202500
IDC Error ellipse: s-maj=25.6km s-min=11.6km az=171.0.
ISC V 02 15 22 20.3–.42 3.49S–.04 135.52E–.05 22 4.7b,3.5s 91 2-149
IDC V 02 15 22 17.4–.67 3.26S 135.54E 0 4.4,4.4 ¶16489786
ISCJB V 02 15 22 18.5–.25 3.44S–.03 135.52E–.02 22 4.5b,3.6s
NEIC V 02 15 22 21.3–2.3 3.31S 135.56E 30–17 4.7b,3.6s
DJA V 02 15 22 23.0–.30 3S–5.0 136E–2.0 104–9 5.0b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 02 15 42 37.2–.26 3.41S–.03 135.50E–.03 22 5.2b,4.2s 382 2-152
IDC V 02 15 42 33.8–.42 3.27S 135.55E 0 4.8,4.8 ¶16708616
ISCJB V 02 15 42 35.1–.15 3.36S–.02 135.61E–.02 22 5.1b,4.2s
BJI V 02 15 42 36.9 3.13S 135.79E 31 5.3b,5.2b
GCMT V 02 15 42 36.9–.20 3.31S 135.43E 17–1 5.2W,5.2b
MOS V 02 15 42 36.8–.89 3.31S 135.53E 33 5.3b,5.2b
NEIC V 02 15 42 36.9–1.6 3.29S 135.55E 22–12 5.2b,5.2b
DJA V 02 15 42 38.5–.70 3S–2.0 136E–1.0 16–6 5.5b,5.4
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c91; s98,c154;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.09±.10 $M_{\theta\theta}$-1.41±.08; $M_{\phi\phi}$1.51±.10; $M_{r\theta}$-5.06±.44; $M_{\theta\phi}$-3.66±.08; $M_{\phi r}$0.93±.22; Best double couple: NP1:ϕ_s101.00000°,δ89.00000°,λ-127.00000°. NP2:ϕ_s10.00000°,δ37.00000°,λ-1.00000°. Principal axes: T 6.4650,Plg34.0000°,Azm222.0000°; N 0.0390,Plg37.0000°,Azm102.0000° ; P -6.4970,Plg35.0000°,Azm340.0000° $M_0$6.48100×10^{16}
NEIC Event type fe. Felt [IV] at Nabire.
ISC V 05 08 13 41.0–.94 1.50S–.09 134.52E–.08 29 3.9b 16 0-150
IDC V 05 08 13 36.8–1.0 1.47S 134.86E 0 4.1,3.9 ¶17202829
ISCJB V 05 08 13 38.7–.94 1.49S–.09 134.60E–.06 29 3.8b,3.9
DJA V 05 08 13 40.7–1.5 1S–7.0 134E–8.0 15–3 4.5,4.5
ISC Event type ke.
ISCJB Event type ke.
IDC V 06 18 30 24.4–7.2 3.20S 133.51E 219–70 3.5,3.1
¶17202943
IDC Error ellipse: s-maj=92.1km s-min=21.9km az=77.0.
IDC V 14 01 36 37.5–2.5 0.96S 132.16E 294–26 4.1,3.6
¶17203579
IDC Error ellipse: s-maj=26.2km s-min=9.3km az=84.0.
IDC V 14 18 57 32.0–3.1 1.17N 130.08E 0 3.4,3.1
¶17203632
IDC Error ellipse: s-maj=361.4km s-min=32.3km az=75.0.
ISC V 15 03 23 47.9–.66 4.48S–.07 135.12E–.07 16 4.2b 30 3-89
ISCJB V 15 03 23 46.5–.45 4.46S–.05 135.10E–.05 16 4.0b ¶16590016
IDC V 15 03 23 47.3–1.2 4.28S 135.05E 0 4.4L,4.2
NEIC V 15 03 23 51.3–4.8 4.39S 134.92E 28–35 4.3b,4.2
DJA V 15 03 23 52.9–.70 4S–5.0 135E–3.0 42–54 5.3b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 15 22 54 02.6–7.1 0.37S 132.05E 0 3.7,3.5
¶17203713
IDC Error ellipse: s-maj=468.2km s-min=27.8km az=73.0.
ISC V 16 02 35 21.4–.31 2.78S–.04 136.52E–.04 34 4.8b,3.9s 164 3-150
IDC V 16 02 35 15.7–.52 2.63S 136.67E 0 4.8L,4.7 ¶16524512
ISCJB V 16 02 35 19.6–.20 2.77S–.03 136.56E–.02 34 4.8b,4.0s
NEIC V 16 02 35 21.9–.74 2.71S 136.55E 43–7 4.8b,4.0s
DJA V 16 02 35 23.2–1.1 3S–3.0 137E–2.0 36–11 5.5b,5.0
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Serui.
IDC V 19 21 06 24.4–2.6 1.44S 134.71E 0 3.7,3.6L
¶17203995
IDC Error ellipse: s-maj=99.4km s-min=25.2km az=82.0.
ISC V 24 14 44 51.6–1.3 0.9S–.10 133.54E–.08 29 11 1-65
IDC V 24 14 44 46.8–2.0 0.91S 133.62E 0 3.9L,3.8 ¶17204386
ISCJB V 24 14 44 50.3–1.1 0.88S–.09 133.57E–.07 29 3.4b,3.8
DJA V 24 14 44 51.9–.80 1S–7.0 133E–3.0 10 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC V 25 13 21 56.9–1.3 2.58S 136.66E 0 4.1,3.8
¶17204452
IDC Error ellipse: s-maj=30.7km s-min=25.6km az=89.0.
ISC V 25 16 50 49.2–.47 2.68S–.06 136.81E–.05 35 4.5b,3.4s 47 3-134
IDC V 25 16 50 44.0–.71 2.65S 136.63E 0 4.2,4.2 ¶16577320
ISCJB V 25 16 50 46.9–.30 2.71S–.04 136.80E–.03 33 4.3b,3.4s
NEIC V 25 16 50 49.9–.86 2.72S 136.77E 45–9 4.5b,3.4s
DJA V 25 16 50 57.4–.40 3S–5.0 137E–3.0 67–13 5.3b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 25 17 51 18.2–1.6 1.74S 133.49E 0 4.3,4.1
¶17204464
IDC Error ellipse: s-maj=48.4km s-min=20.3km az=58.0.
IDC VI 05 00 39 01.8–3.2 4.98S 133.71E 0 3.6,3.6b
¶17205264
IDC Error ellipse: s-maj=130.3km s-min=30.7km az=82.0.
IDC VI 06 16 38 57.2–6.6 3.33S 134.37E 0 3.6,3.4
¶17205418
IDC Error ellipse: s-maj=361.8km s-min=29.4km az=78.0.
IDC VI 13 20 43 42.9–2.5 0.86S 133.29E 0 3.6,3.5L
¶17206068
IDC Error ellipse: s-maj=102.4km s-min=25.7km az=79.0.
IDC VI 14 03 43 09.6–2.8 1.68S 136.78E 0 3.5,3.3
¶17206081
IDC Error ellipse: s-maj=109.0km s-min=27.8km az=81.0.
ISC VI 16 12 24 39.2–.86 1.4S–.10 134.37E–.10 29 4.0b 12 3-86
IDC VI 16 12 24 35.3–1.1 1.37S 134.43E 0 4.3L,4.2 ¶16730720
ISCJB VI 16 12 24 37.5–.78 1.43S–.09 134.36E–.08 29 3.9b,4.2
NEIC VI 16 12 24 40.3–.60 1.42S 134.52E 35 3.9b,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=40.2km s-min=19.2km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=8.8km az=36.1.
NEIC Event type fe. Error ellipse: s-maj=17.4km s-min=10.2km az=80.0. Felt [III] at Ransiki.
ISC VI 18 10 51 30.7–.50 3.47S–.05 131.30E–.05 24 4.4b 41 2-153
IDC VI 18 10 51 27.7–.64 3.48S 131.25E 0 4.3,4.3s ¶16730879
ISCJB VI 18 10 51 28.9–.36 3.54S–.04 131.34E–.04 24 4.3b,4.2s
NEIC VI 18 10 51 29.1–.45 3.55S 131.22E 10 4.6b,4.2s
DJA VI 18 10 51 33.7–.40 3S–4.0 131E–2.0 45–13 5.4b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 18 23 46 26.7–.36 3.46S–.04 131.62E–.06 24 4.6b 83 2-130
IDC VI 18 23 46 23.1–.63 3.63S 130.75E 0 4.4,4.3 ¶16632959
ISCJB VI 18 23 46 24.8–.26 3.38S–.03 131.54E–.04 24 4.8b,3.6s
BJI VI 18 23 46 26.3 3.44S 131.71E 33 4.9b,4.6s
NEIC VI 18 23 46 28.4–.91 3.31S 131.64E 36–10 4.6b,4.6s
DJA VI 18 23 46 28.7–.30 3S–3.0 131E–2.0 80–11 5.4b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 19 20 26 38.5–1.6 0.4S–.20 132.9E–.10 32 3.9b 7 2-64
IDC VI 19 20 26 33.8–1.6 0.35S 132.99E 0 4.0,3.8 ¶17206544
ISCJB VI 19 20 26 35.8–1.4 0.4S–.10 133.13E–.09 32 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 20 22 05 52.1–.32 4.54S–.04 135.52E–.04 20 4.8b,3.7s 163 3-149
BJI VI 20 22 05 47.1 4.82S 135.69E 13 4.9b,4.8b ¶16640760
IDC VI 20 22 05 49.1–.57 4.42S 135.49E 0 4.6,4.5
DJA VI 20 22 05 49.5–1.1 4S–3.0 135E–2.0 11–8 5.3b,5.3
ISCJB VI 20 22 05 50.3–.19 4.58S–.02 135.55E–.03 20 4.7b,3.7s
NEIC VI 20 22 05 52.3–4.5 4.50S 135.41E 19–28 4.9b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=13.0km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=7.5.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=5.5km az=58.0.
ISC VI 22 05 52 07.7–1.3 0.7S–.10 133.12E–.08 35 9 1-65
IDC VI 22 05 52 03.9–2.4 0.84S 132.53E 0 3.9,3.8 ¶17206727
ISCJB VI 22 05 52 05.2–1.4 0.65S–.09 133.27E–.09 33 3.8b,3.8
DJA VI 22 05 52 07.2–2.1 1S–8.0 133E–5.0 19–23 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC VI 22 16 09 35.4–3.2 4.88S 133.78E 0 4.0,3.9L
¶17206762
IDC Error ellipse: s-maj=129.3km s-min=30.1km az=82.0.
IDC VI 22 17 19 43.6–1.2 0.79S 132.83E 0 4.1,3.9
¶17206768
IDC Error ellipse: s-maj=58.4km s-min=16.6km az=83.0.
IDC VI 22 20 49 09.0–4.2 1.28S 134.23E 158–41 3.9,3.6
¶17206780
IDC Error ellipse: s-maj=28.5km s-min=11.6km az=92.0.
ISC VI 23 18 53 40.2–.45 2.90S–.05 131.33E–.06 35 4.2b,3.3s 43 1-153
IDC VI 23 18 53 35.3–.54 2.88S 131.36E 0 4.2,4.2 ¶16731319
NEIC VI 23 18 53 37.6–1.8 2.88S 131.29E 14–11 4.7b,4.2
ISCJB VI 23 18 53 38.3–.34 2.91S–.04 131.27E–.05 33 4.2b,3.3s
DJA VI 23 18 53 41.0–.40 3S–4.0 131E–3.0 90–57 5.0b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 26 12 16 39.6–.35 2.39S–.03 136.66E–.03 25–2 6.4s,6.0b 1131 3-169
ISCJB VI 26 12 16 34.8–.57 2.34S–.02 136.63E–.02 6–3 6.4s,5.8b ¶16682707
IDC VI 26 12 16 34.9–.31 2.35S 136.60E 0 6.3,6.3s
BJI VI 26 12 16 36.2 2.35S 136.65E 15 6.3s,6.2
MOS VI 26 12 16 38.8–1.2 2.35S 136.65E 35 6.2b,6.2s
DJA VI 26 12 16 38.0–.10 2S–2.0 137E–1.0 10 6.5b,6.2
NEIC VI 26 12 16 38.6–.10 2.38S 136.63E 17 6.5,6.4s
GCMT VI 26 12 16 38.6–.00 2.27S 136.61E 13–0 6.4W,6.4s
NEIC VI 26 12 16 39.0–.00 2.08S 137.03E 11 6.4W,6.4s
NEIC VI 26 12 16 54.1–.00 2.24S 136.92E 10 6.4W,6.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=36.7.
IDC Error ellipse: s-maj=13.4km s-min=8.4km az=71.0.
MOS Error ellipse: s-maj=7.8km s-min=4.4km az=110.3.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.0km az=65.0. Felt [V] at Serui and Waren; [IV] at Biak, Nabire and Sarmi; [III] at Timika and Wamena. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.00000×10^{19} Moment Tensor Solution. s22 Moment tensor: Scale 10^{18} Nm; M_{rr}0.07 $M_{\theta\theta}$-2.98 $M_{\phi\phi}$2.91 $M_{r\theta}$-0.18 $M_{\theta\phi}$1.27 $M_{\phi r}$-0.61 Best double couple: NP1: ϕ_s146.00000°,δ81.00000°,λ173.00000°. NP2:ϕ_s237.00000°,δ83.00000°,λ9.00000°. Principal axes: T 3.3000,Plg11.0000°,Azm102.0000°; N -0.0600,Plg79.0000°,Azm277.0000° ; P -3.2400,Plg1.0000°,Azm12.0000° $M_0$3.30000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s234.00000°,δ75.00000°,λ-5.00000°. NP2: ϕ_s325.00000°,δ85.00000°,λ-165.00000°. Principal axes: T Plg7.0000°,Azm98.0000° ; N Plg0.0000°,Azm0.0000°; P Plg14.0000°,Azm190.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c323; s147,c562;Duration: 3^{s}7 Moment tensor: Scale 10^{18} Nm; M_{rr}0.19±.02 $M_{\theta\theta}$-4.17±.02; $M_{\phi\phi}$3.97±.02; $M_{r\theta}$-0.06±.04; $M_{\theta\phi}$1.30±.02; $M_{\phi r}$0.74±.05; Best double couple: NP1:ϕ_s323.00000°,δ85.00000°,λ171.00000°. NP2:ϕ_s54.00000° ,δ81.00000°,λ5.00000°. Principal axes: T 4.2990,Plg10.0000°,Azm279.0000° ; N 0.0750,Plg80.0000°,Azm112.0000°; P -4.3790,Plg2.0000°,Azm9.0000° $M_0$4.33900×10^{18}
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}0.97 $M_{\theta\theta}$-3.02 $M_{\phi\phi}$2.06 $M_{r\theta}$-0.17 $M_{\theta\phi}$1.24 $M_{\phi r}$1.52 Best double couple: NP1:ϕ_s323.00000° ,δ73.00000°,λ151.00000°. NP2:ϕ_s62.00000°,δ62.00000°,λ19.00000°. Principal axes: T 3.2700,Plg32.0000°,Azm280.0000°; N 0.1100,Plg56.0000°,Azm115.0000° ; P -3.3700,Plg7.0000°,Azm14.0000° $M_0$3.30000×10^{18}
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$-3.87 $M_{\phi\phi}$3.85 $M_{r\theta}$1.10 $M_{\theta\phi}$1.56 $M_{\phi r}$-2.09 Best double couple: NP1:ϕ_s146.00000° ,δ88.00000°,λ151.00000°. NP2:ϕ_s237.00000°,δ61.00000°,λ2.00000°. Principal axes: T 4.8900,Plg22.0000°,Azm97.0000°; N -0.2000,Plg61.0000°,Azm322.0000° ; P -4.6900,Plg19.0000°,Azm195.0000° $M_0$4.80000×10^{18}
ISC VI 26 12 19 19.6–.42 2.44S–.08 136.69E–.07 42 5.0b 67 4-152
IDC VI 26 12 19 13.7–.59 2.45S 136.56E 0 6.2,6.2s ¶602897778
NEIC VI 26 12 19 16.7–3.3 2.41S 136.66E 19–20 5.6b,6.2s
ISCJB VI 26 12 19 17.9–.27 2.41S–.05 136.67E–.06 42 5.2b,6.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 26 12 21 24.0–.52 2.30S–.09 136.72E–.06 42 5.0b 50 4-149
IDC VI 26 12 21 18.3–.70 2.29S 136.65E 0 4.8,4.8 ¶16731513
NEIC VI 26 12 21 21.4–2.4 2.27S 136.68E 21–17 5.3b,4.8

ISCJB VI 26 12 21 22.0–.40 2.30S–.07 136.73E–.05 42 5.0b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 26 12 26 33.1–.40 2.52S–.06 136.57E–.06 42 5.3b 65 4-169
IDC VI 26 12 26 23.9–.81 2.22S 136.70E 0 4.6,4.3 **¶16704934**
NEIC VI 26 12 26 26.6–.46 2.18S 136.61E 10 5.4b,4.3
BJI VI 26 12 26 31.2 2.50S 136.50E 30 5.9s,5.8
ISCJB VI 26 12 26 32.3–.35 2.68S–.05 136.62E–.06 42 5.1b,5.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 26 12 29 18.7–1.5 2.35S 136.67E 0 4.2,4.0
¶17206984
IDC Error ellipse: s-maj=40.2km s-min=28.1km az=76.0.
IDC VI 26 12 31 24.9–1.5 2.33S 136.73E 0 4.2,3.9
¶17206985
IDC Error ellipse: s-maj=39.7km s-min=28.2km az=75.0.
IDC VI 26 12 39 44.3–1.2 2.39S 136.54E 0 4.2,3.9
¶17206986
IDC Error ellipse: s-maj=35.6km s-min=23.5km az=66.0.
IDC VI 26 12 42 57.9–1.5 2.79S 137.00E 0 3.6,3.4
¶17206987
IDC Error ellipse: s-maj=30.6km s-min=29.3km az=64.0.
IDC VI 26 12 49 25.5–1.5 2.26S 136.72E 0 3.9,3.7
¶17206988
IDC Error ellipse: s-maj=35.4km s-min=26.4km az=88.0.
ISC VI 26 12 51 47.1–.30 2.39S–.04 136.62E–.04 42 4.8b 166 3-152
BJI VI 26 12 51 40.0 2.65S 136.91E 23 5.5b,5.3s **¶16682710**
IDC VI 26 12 51 40.6–.46 2.29S 136.65E 0 4.5,4.4
NEIC VI 26 12 51 42.8–2.6 2.26S 136.65E 11–16 5.0b,4.4
MOS VI 26 12 51 44.0–1.1 2.33S 136.53E 33 4.9b,4.4
DJA VI 26 12 51 44.1–1.3 2S–5.0 137E–2.0 15–10 5.2,5.2
ISCJB VI 26 12 51 45.3–.19 2.33S–.03 136.62E–.03 42 4.8b,5.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 26 12 57 14.7–1.3 2.35S 136.71E 0 4.0,3.8
¶17206990
IDC Error ellipse: s-maj=39.0km s-min=25.3km az=75.0.
IDC VI 26 13 11 00.8–1.6 2.82S 136.88E 0 3.5,3.4b
¶17206992
IDC Error ellipse: s-maj=39.2km s-min=29.8km az=80.0.
ISC VI 26 13 41 13.3–.56 2.45S–.06 136.61E–.04 42 3.9b 40 3-86
IDC VI 26 13 41 07.8–.77 2.21S 136.66E 0 4.4s,4.4 **¶16731526**
NEIC VI 26 13 41 10.6–4.2 2.30S 136.63E 19–28 4.1b,4.4
ISCJB VI 26 13 41 11.5–.40 2.37S–.05 136.59E–.03 42 3.8b,4.4
DJA VI 26 13 41 13.0–.60 2S–10 137E–3.0 104–22 4.8,4.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 26 14 15 06.1–1.5 2.39S 136.75E 0 3.6,3.4
¶17206999
IDC Error ellipse: s-maj=34.9km s-min=25.9km az=90.0.
IDC VI 26 14 17 22.2–1.5 2.15S 136.58E 0 3.3,3.2
¶17207000
IDC Error ellipse: s-maj=41.4km s-min=28.3km az=74.0.
ISC VI 26 15 03 23.6–.50 2.44S–.04 136.73E–.04 28–3 5.3b,5.0s 482 3-157
BJI VI 26 15 03 16.2 2.65S 137.08E 9 5.5b,5.2b **¶16682715**
NEIC VI 26 15 03 19.4–1.7 2.41S 136.70E 2–10 5.4b,5.0s
GCMT VI 26 15 03 19.4–.10 2.40S 136.70E 14–0 5.4W,5.0s
IDC VI 26 15 03 19.7–.44 2.42S 136.73E 0 5.1,5.1b
ISCJB VI 26 15 03 20.9–.91 2.44S–.02 136.74E–.02 21–6 5.2b,5.0s
MOS VI 26 15 03 22.8–1.1 2.44S 136.65E 35 5.5b,5.0s
DJA VI 26 15 03 25.1–1.1 2S–4.0 137E–2.0 26–9 5.8,5.7b
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c78; s111,c207;Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.47±.04 $M_{\theta\theta}$-1.84±.04; $M_{\phi\phi}$1.36±.03; $M_{r\theta}$-0.15±.06; $M_{\theta\phi}$0.28±.02; $M_{\phi r}$0.23±.07; Best double couple: NP1:ϕ_s319.00000°,δ84.00000°,λ168.00000°. NP2:ϕ_s51.00000°,δ78.00000°,λ6.00000°. Principal axes: T 1.4360,Plg13.0000°,Azm274.0000°; N 0.4340,Plg76.0000°,Azm113.0000°; P -1.8780,Plg4.0000°,Azm5.0000° $M_0$1.65700×10^{17}
ISCJB Event type se.
ISC VI 26 15 12 54.4–.62 2.37S–.09 136.72E–.05 42 3.9b 24 3-86
ISCJB VI 26 15 12 52.6–.42 2.36S–.07 136.70E–.03 42 3.9b **¶17207004**
DJA VI 26 15 12 53.1–1.5 2S–6.0 137E–2.0 25–13 4.8,4.8
IDC VI 26 15 12 54.6–2.3 2.37S 136.79E 42–24 4.0,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.7km az=4.5.
IDC Error ellipse: s-maj=16.4km s-min=15.1km az=152.0.
ISC VI 26 15 21 09.4–1.0 2.5S–.20 136.75E–.08 42 7 4-68
IDC VI 26 15 21 04.5–1.5 2.39S 136.72E 0 3.8,3.6 **¶17207005**
ISCJB VI 26 15 21 07.5–.91 2.4S–.10 136.75E–.07 42 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 15 28 38.1–.70 2.49S–.07 136.71E–.04 42 3.8b 32 3-78
IDC VI 26 15 28 32.5–.83 2.28S 136.69E 0 4.0,3.9 **¶16731537**
NEIC VI 26 15 28 33.8–4.8 2.31S 136.71E 7–31 4.4b,3.9
ISCJB VI 26 15 28 36.2–.42 2.41S–.06 136.73E–.03 42 3.9b,3.9
DJA VI 26 15 28 37.9–.60 3S–12 137E–2.0 73–61 4.7b,4.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 26 15 34 41.5–1.1 2.66S–.09 136.67E–.04 42 15 3-29
IDC VI 26 15 34 30.8–7.2 1.96S 136.46E 0 3.9,3.7 **¶17207006**
DJA VI 26 15 34 34.6–.40 3S–5.0 137E–2.0 10 5.9b,5.5
ISCJB VI 26 15 34 39.3–.95 2.58S–.09 136.74E–.06 42 3.6b,5.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 15 46 47.5–1.1 2.4S–.10 136.78E–.07 35 8 4-30
IDC VI 26 15 46 44.0–2.5 2.47S 136.77E 0 4.0,3.9 **¶17207007**
ISCJB VI 26 15 46 44.8–.90 2.3S–.10 136.77E–.05 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 15 57 11.6–.43 2.40S–.05 136.70E–.04 42 4.2b,4.0s 55 3-149
ISCJB VI 26 15 57 09.6–.30 2.41S–.04 136.70E–.03 42 4.3b,4.1s **¶16684560**
NEIC VI 26 15 57 09.7–2.2 2.37S 136.71E 27–16 4.4b,4.1s
DJA VI 26 15 57 10.6–1.2 2S–4.0 137E–2.0 27–10 5.0,5.0
IDC VI 26 15 57 11.0–2.9 2.37S 136.73E 37–25 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=26.9.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.8km az=82.0.
IDC Error ellipse: s-maj=19.8km s-min=9.7km az=89.0.
DJA VI 26 16 29 09.9–.30 3S–6.0 137E–2.0 10 4.5b,4.3
¶602004641
ISC VI 26 16 31 27.4–.94 2.4S–.10 136.72E–.07 42 8 4-68
IDC VI 26 16 31 22.2–1.4 2.35S 136.70E 0 3.7,3.6 **¶17207008**
ISCJB VI 26 16 31 25.3–.78 2.4S–.10 136.70E–.05 42 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC VI 26 16 34 31.9–1.5 2.39S 136.79E 0 3.3,3.2
¶17207009
IDC Error ellipse: s-maj=34.2km s-min=26.6km az=53.0.
ISC VI 26 16 45 56.7–.91 2.5S–.10 136.67E–.05 42 14 3-68
IDC VI 26 16 45 52.2–1.5 2.52S 136.63E 0 3.4,3.3 **¶17207010**
ISCJB VI 26 16 45 54.5–.63 2.4S–.10 136.65E–.03 42 3.2b,3.3
DJA VI 26 16 45 56.8–1.5 2S–8.0 137E–2.0 40–42 4.3b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 17 36 15.2–.92 2.4S–.10 136.74E–.05 35 15 3-68
IDC VI 26 17 36 10.9–1.5 2.41S 136.72E 0 3.9,3.7 **¶17207012**
ISCJB VI 26 17 36 13.7–.57 2.49S–.10 136.71E–.03 33 3.7b,3.7
DJA VI 26 17 36 14.6–.60 2S–8.0 137E–3.0 93–37 6.5b,6.3
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 20 03 05.8–.38 2.51S–.05 136.70E–.04 35 4.5b,4.0s 109 3-134
BJI VI 26 20 03 00.5 2.81S 136.61E 21 5.2b,4.8s **¶16683830**
IDC VI 26 20 03 00.8–.61 2.45S 136.60E 0 4.3,4.3b
NEIC VI 26 20 03 01.9–.26 2.40S 136.66E 10 4.7b,4.3b
ISCJB VI 26 20 03 03.6–.23 2.49S–.03 136.71E–.03 33 4.5b,4.0s
DJA VI 26 20 03 04.7–1.0 2S–4.0 137E–2.0 22–8 5.6b,5.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 26 21 30 59.4–1.0 2.52S–.10 136.71E–.09 42 3.5b 9 4-68
IDC VI 26 21 30 54.0–1.3 2.37S 136.70E 0 3.8,3.5 **¶17207026**
ISCJB VI 26 21 30 57.6–.89 2.54S–.08 136.70E–.07 42 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 26 21 43 59.6–.53 2.47S–.06 136.65E–.05 42 3.9b,3.3s 41 4-86
IDC VI 26 21 43 54.4–.78 2.31S 136.68E 0 4.1,3.9L **¶16731561**
ISCJB VI 26 21 43 58.0–.37 2.38S–.05 136.68E–.04 42 4.1b,3.4s
NEIC VI 26 21 43 59.0–2.8 2.34S 136.71E 33–21 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=22.8km s-min=16.9km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.0km az=0.6.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.8km az=126.0.
ISC VI 26 23 53 19.6–.79 2.38S–.08 136.66E–.09 35 3.6b 12 4-86
IDC VI 26 23 53 14.8–.95 2.21S 136.70E 0 3.9,3.8 **¶17207031**
ISCJB VI 26 23 53 17.6–.63 2.36S–.07 136.66E–.06 33 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 27 00 47 42.5–1.7 2.37S 136.63E 0 3.8,3.6
¶17207034
IDC Error ellipse: s-maj=36.3km s-min=28.5km az=95.0.
ISC VI 27 04 39 17.5–.43 2.60S–.06 136.68E–.05 42 4.2b,3.8s 55 4-149
BJI VI 27 04 39 10.8 2.86S 136.99E 30 5.0b,4.7s **¶16684565**
IDC VI 27 04 39 11.3–.55 2.33S 136.66E 0 4.3,4.3b
NEIC VI 27 04 39 12.5–4.1 2.32S 136.68E 10–26 4.5b,4.3b
ISCJB VI 27 04 39 15.2–.30 2.50S–.04 136.65E–.04 42 4.3b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 27 04 57 12.8–1.5 2.42S–.04 136.69E–.04 30–10 4.8b,3.9s 238 3-163
BJI VI 27 04 57 07.0 2.41S 136.90E 11 5.0b,4.7b **¶16683846**
IDC VI 27 04 57 08.3–.44 2.33S 136.58E 0 4.7,4.6
NEIC VI 27 04 57 09.6–.14 2.31S 136.67E 10 5.0b,4.6
ISCJB VI 27 04 57 09.4–1.2 2.41S–.03 136.67E–.03 20–8 4.8b,4.0s
MOS VI 27 04 57 11.4–1.1 2.33S 136.63E 33 5.0b,4.0s
DJA VI 27 04 57 11.3–1.7 2S–6.0 137E–3.0 16–14 5.4b,5.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 27 05 11 29.6–1.3 2.5S–.20 136.8E–.20 35 3.7b 6 4-68
IDC VI 27 05 11 24.7–1.4 2.39S 136.74E 0 3.7,3.6 **¶17207046**
ISCJB VI 27 05 11 27.4–1.3 2.5S–.10 136.8E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 05 27 25.3–.81 2.4S–.10 136.8E–.10 35 3.9b 11 4-86
IDC VI 27 05 27 20.3–.82 2.41S 136.79E 0 4.0,3.9 **¶17207048**
ISCJB VI 27 05 27 23.5–.64 2.47S–.09 136.8E–.10 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 05 28 09.1–1.4 2.6S–.10 136.8E–.30 35 3.9b 8 17-72
IDC VI 27 05 28 04.2–1.6 2.54S 136.77E 0 4.1,4.1L **¶17207051**
ISCJB VI 27 05 28 07.2–1.2 2.59S–.09 136.7E–.30 33 3.8b,4.1L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 27 07 46 41.6–.56 2.40S–.07 136.69E–.05 42 4.2b,3.5s 27 4-86
NEIC VI 27 07 46 37.5–.32 2.33S 136.68E 10 4.3b,3.5s **¶16731595**
ISCJB VI 27 07 46 39.7–.39 2.38S–.06 136.70E–.05 42 4.2b,3.5s
IDC VI 27 07 46 41.5–3.7 2.38S 136.74E 40–37 4.1,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.4km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=6.7km az=11.5.
IDC Error ellipse: s-maj=21.4km s-min=15.6km az=107.0.
ISC VI 27 11 15 50.3–.70 2.48S–.07 136.63E–.04 42 4.0b,3.3s 31 3-79
NEIC VI 27 11 15 46.4–.71 2.38S 136.54E 10 4.3b,3.3s **¶16731606**
ISCJB VI 27 11 15 48.3–.46 2.45S–.05 136.62E–.03 42 4.1b,3.5s
DJA VI 27 11 15 49.5–.50 2S–9.0 137E–2.0 90–28 5.1b,4.9b
IDC VI 27 11 15 49.5–4.8 2.42S 136.55E 31–37 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=11.2km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.2km az=4.8.
IDC Error ellipse: s-maj=32.2km s-min=14.0km az=79.0.
IDC VI 27 11 44 53.6–3.0 0.84N 136.43E 0 3.3,3.1
¶17207067
IDC Error ellipse: s-maj=133.2km s-min=27.5km az=78.0.
IDC VI 27 12 53 26.9–4.2 2.44S 136.82E 40–46 3.4,3.3
¶17207075
IDC Error ellipse: s-maj=27.9km s-min=20.1km az=94.0.
ISC VI 27 13 44 41.9–.98 2.3S–.10 136.8E–.10 35 4.1b 8 4-86
IDC VI 27 13 44 36.9–1.1 2.23S 136.72E 0 4.1,3.9 **¶17207079**
ISCJB VI 27 13 44 39.8–.77 2.3S–.10 136.79E–.07 33 3.9b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 27 14 18 10.4–1.3 2.30S 136.70E 0 3.7,3.6b
¶17207081
IDC Error ellipse: s-maj=31.9km s-min=24.2km az=46.0.
ISC VI 27 22 16 48.6–.88 2.2S–.10 136.78E–.10 35 3.7b 10 4-86
IDC VI 27 22 16 43.5–.97 2.09S 136.82E 0 3.9,3.8b **¶17207102**
ISCJB VI 27 22 16 46.7–.66 2.2S–.10 136.78E–.07 33 3.6b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 28 20 48 51.8–1.4 2.7S–.10 136.3E–.20 35 3.7b,3.1s 9 17-87
IDC VI 28 20 48 44.3–1.2 2.29S 136.82E 0 4.0,3.9b **¶16731729**
ISC Event type ke.
IDC Error ellipse: s-maj=59.9km s-min=24.3km az=90.0.
IDC VI 29 03 54 29.3–2.5 2.23S 136.91E 0 3.7,3.6
¶17207164
IDC Error ellipse: s-maj=115.2km s-min=25.5km az=83.0.

(197) Near north coast of Irian Jaya.

ISC I 01 13 25 48.0–.98 1.0S–.20 137.77E–.09 35 3.8b 11 3-149
IDC I 01 13 25 43.3–1.1 0.89S 137.81E 0 4.3L,4.1 **¶17189135**
ISCJB I 01 13 25 46.1–.92 0.9S–.10 137.78E–.08 33 3.7b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC I 03 21 02 21.9–.62 2.55S–.07 139.97E–.08 25 4.2b,3.1s 28 8-147
IDC I 03 21 02 17.9–.83 2.35S 140.13E 0 4.2,4.1 **¶16031089**
ISCJB I 03 21 02 19.8–.60 2.49S–.05 140.03E–.08 25 4.1b,3.0s
NEIC I 03 21 02 22.6–3.5 2.41S 140.09E 33–24 4.6b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=15.9km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.2km az=171.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=8.5km az=225.0.
IDC I 04 00 24 20.4–1.4 2.17S 140.22E 0 3.8,3.5
¶17189373
IDC Error ellipse: s-maj=32.7km s-min=10.2km az=32.0.
ISC I 04 02 36 29.8–.52 2.45S–.04 140.15E–.05 30–3 4.8b,3.9s 192 0-160
IDC I 04 02 36 25.1–.44 2.35S 140.19E 0 4.7,4.6 **¶15902951**

MOS I 04 02 36 28.1–1.1 2.42S 140.27E 33 5.0b,4.6
ISCJB I 04 02 36 28.0–.57 2.44S–.03 140.30E–.04 30–4 4.7b,3.9s
BJI I 04 02 36 29.1 2.55S 140.24E 46 5.1b,4.8s
NEIC I 04 02 36 31.0–.82 2.45S 140.12E 40–8 4.9b,4.8s
DJA I 04 02 36 31.3–.70 2S–4.0 140E–4.0 17–4 7.2,5.7b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Genyem and Jayapura.
ISC I 04 02 54 28.7–1.1 2.5S–.20 140.4E–.10 25 3.8b 9 0-147
IDC I 04 02 54 25.4–1.1 2.45S 140.16E 0 4.1,4.0L ¶17189382
ISCJB I 04 02 54 27.0–1.1 2.5S–.20 140.3E–.10 25 3.7b,4.0L
ISC Event type ke.
ISCJB Event type ke.
IDC I 21 13 37 17.5–2.1 2.44S 140.29E 0 3.6,3.4
¶17190679
IDC Error ellipse: s-maj=89.6km s-min=28.3km az=95.0.
ISC I 30 07 42 29.5–.71 2.57S–.08 140.50E–.07 24 4.1b 21 0-146
IDC I 30 07 42 26.3–.76 2.46S 140.39E 0 4.3,4.3L ¶15998184
ISCJB I 30 07 42 27.6–.69 2.50S–.08 140.48E–.05 24 4.0b,3.2s
NEIC I 30 07 42 28.5–1.2 2.44S 140.52E 16–7 4.5b,3.2s
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=6.5km az=8.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.7km az=10.4.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=9.7km az=217.0. Felt [IV] at Sentani and [III] at Jayapura.
IDC II 05 02 23 59.1–1.8 2.14S 139.29E 0 3.8,3.6L
¶17191709
IDC Error ellipse: s-maj=30.4km s-min=18.0km az=3.0.
IDC II 10 00 56 35.6–9.1 1.78S 137.52E 0 3.6,3.5b
¶17191981
IDC Error ellipse: s-maj=413.7km s-min=28.1km az=83.0.
IDC II 14 17 12 13.2–1.5 2.07S 140.23E 0 3.3,3.2
¶17192258
IDC Error ellipse: s-maj=37.7km s-min=10.6km az=40.0.
ISC II 15 21 18 01.1–.74 2.4S–.10 139.1E–.10 37 4.2b 13 2-136
IDC II 15 21 17 55.7–.69 2.32S 139.03E 0 4.3,4.1 ¶17192324
ISCJB II 15 21 17 59.4–.58 2.43S–.09 139.0E–.10 37 4.1b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC II 19 00 04 58.9–.74 2.1S–.10 139.3E–.10 27 4.0b 13 1-83
IDC II 19 00 04 55.8–1.2 2.09S 139.11E 0 4.2L,4.1 ¶16342615
NEIC II 19 00 04 56.6–.37 2.09S 139.26E 10 4.0b,4.1
ISCJB II 19 00 04 57.7–.61 2.11S–.08 139.1E–.10 27 3.9b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 04 03 16 30.3–.73 1.1S–.10 137.14E–.07 29 4.0b 14 4-85
IDC III 04 03 16 26.1–.91 1.10S 137.19E 0 4.0,4.0L ¶16339068
ISCJB III 04 03 16 28.4–.55 1.16S–.08 137.14E–.06 29 3.9b,4.0L
NEIC III 04 03 16 30.9–3.3 1.14S 137.13E 33–25 4.1b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=32.6km s-min=18.2km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=8.1km az=28.3.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.8km az=215.0.
ISC III 06 07 56 11.8–.66 2.96S–.09 139.5E–.10 46 3.7b 22 1-147
IDC III 06 07 56 05.6–.68 2.87S 139.45E 0 4.0,3.9L ¶16442195
ISCJB III 06 07 56 10.1–.59 2.92S–.06 139.44E–.10 46 3.7b,2.9s
NEIC III 06 07 56 11.1–1.3 2.92S 139.51E 42–13 4.1b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=12.9km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=7.9km az=19.5.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.6km az=127.0.
ISC III 06 09 13 05.9–.55 2.79S–.06 139.27E–.06 46 3.8b,3.4s 34 1-144
IDC III 06 09 13 00.5–.69 2.75S 139.30E 0 4.0L,3.9 ¶16314216
DJA III 06 09 13 03.3–.50 2S–8.0 139E–2.0 10 5.4,5.1b
ISCJB III 06 09 13 04.7–.40 2.78S–.06 139.32E–.04 46 3.8b,3.4s
NEIC III 06 09 13 05.7–.54 2.70S 139.25E 35 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.3km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.7km az=161.2.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=10.7km az=62.0.
ISC III 15 09 08 47.4–1.1 2.1S–.10 139.5E–.10 29 3.7b 7 1-79
IDC III 15 09 08 43.8–1.1 2.00S 139.25E 0 4.1L,4.0 ¶17196097
ISCJB III 15 09 08 46.2–.98 2.1S–.10 139.3E–.10 29 3.6b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 12 29 05.0–1.3 2.4S–.20 140.6E–.20 25 3.6b 6 0-75
IDC III 16 12 29 02.5–1.0 2.37S 140.23E 0 4.0,4.0s ¶17196460
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=8.7km az=16.0.
ISC III 17 03 59 13.0–1.8 2.2S–.20 139.03E–.05 10 9 1-30
ISCJB III 17 03 59 13.1–1.4 2.4S–.20 139.01E–.07 10 4.0b ¶17196609
DJA III 17 03 59 15.4–1.3 2S–16 139E–4.0 15–16 4.2b,4.1
IDC III 17 03 59 21.8–1.7 3.37S 140.04E 0 4.5L,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.9km s-min=8.6km az=170.7.
IDC Error ellipse: s-maj=38.6km s-min=15.3km az=117.0.
ISC III 23 14 06 29.8–.33 2.08S–.04 139.11E–.05 29 4.8b,3.9s 179 1-151
IDC III 23 14 06 25.1–.44 2.03S 139.14E 0 4.7L,4.6 ¶16449030
ISCJB III 23 14 06 27.9–.21 2.05S–.03 139.12E–.03 29 4.7b,4.1s
BJI III 23 14 06 28.9 1.91S 139.38E 42 5.3b,5.0s
NEIC III 23 14 06 28.3–1.7 2.04S 139.08E 20–12 4.9b,5.0s
DJA III 23 14 06 29.7–1.1 2S–5.0 139E–4.0 26–8 5.7b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC III 28 02 07 06.1–1.4 2.24S 139.54E 0 3.7,3.6L
¶17198884
IDC Error ellipse: s-maj=67.0km s-min=23.3km az=90.0.
IDC IV 01 19 07 15.6–1.9 1.91S 139.65E 0 3.7,3.4
¶17199455
IDC Error ellipse: s-maj=30.3km s-min=26.7km az=25.0.
ISC IV 02 15 44 26.6–1.2 2.6S–.20 140.56E–.05 13–10 9 0-71
IDC IV 02 15 44 22.8–1.9 2.50S 141.09E 0 3.5,3.5L ¶17199545
DJA IV 02 15 44 24.8–1.8 3S–11 141E–6.0 10 3.7,3.7
ISCJB IV 02 15 44 26.0–.89 2.5S–.10 140.58E–.06 26–5 3.4s,3.2b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 07 19 03 57.8–1.1 2.33S 139.93E 0 4.0,4.0L
¶17200152
IDC Error ellipse: s-maj=26.5km s-min=10.2km az=15.0.
ISC IV 14 03 34 18.6–.56 2.03S–.07 141.0E–.10 20 4.4b 43 1-146
ISCJB IV 14 03 34 16.9–.48 2.05S–.05 140.97E–.09 20 4.3b,3.6s
NEIC IV 14 03 34 19.2–1.8 2.03S 140.92E 25–11 4.5b,3.6s
IDC IV 14 03 34 20.3–.61 2.07S 140.91E 31–3 4.5L,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=7.7km az=176.9.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.1km az=77.0.
IDC Error ellipse: s-maj=19.8km s-min=8.6km az=100.0.
ISC IV 21 23 10 20.1–.42 2.47S–.06 139.04E–.04 10 4.8b,4.0s 54 1-147
IDC IV 21 23 10 18.7–.56 2.42S 139.04E 0 4.4,4.3 ¶16531758
ISCJB IV 21 23 10 22.3–.27 2.84S–.04 138.95E–.03 10 4.9b,3.9s
DJA IV 21 23 10 23.1–.30 2S–5.0 139E–2.0 10 5.0b,4.8
NEIC IV 21 23 10 32.3–.67 3.03S 138.75E 74–7 5.0b,4.8
BJI IV 21 23 10 34.6 2.43S 138.64E 65 4.8b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.5km az=28.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.3km az=10.8.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=70.0.
IDC IV 27 08 37 49.8–1.1 2.22S 139.22E 0 3.8,3.7L
¶17202221
IDC Error ellipse: s-maj=25.9km s-min=14.4km az=16.0.
ISC V 06 02 37 10.9–1.1 2.9S–.10 139.6E–.20 46 8 1-58
IDC V 06 02 37 05.5–1.3 2.78S 139.47E 0 3.9L,3.8 ¶16708978
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=14.9km az=132.0.
ISC V 06 02 37 24.3–.30 2.90S–.04 139.22E–.04 46 4.8b,4.4s 207 2-151
IDC V 06 02 37 18.1–.47 2.78S 139.27E 0 4.7s,4.6 ¶17202891
DJA V 06 02 37 20.1–.30 3S–5.0 140E–3.0 10 5.4b,5.0
MOS V 06 02 37 21.3–1.0 2.77S 139.18E 33 4.9b,5.0
BJI V 06 02 37 21.4 2.91S 139.51E 46 4.9b,4.8b
ISCJB V 06 02 37 22.5–.20 2.86S–.03 139.27E–.03 46 4.8b,4.5s
GCMT V 06 02 37 23.0–.20 2.46S 139.41E 38–1 5.0W,4.5s
NEIC V 06 02 37 23.0–1.4 2.83S 139.20E 35–10 4.9b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=8.7km az=99.0.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=95.5.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=154.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c63; s70,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.83±.17 $M_{\theta\theta}$-2.28±.12; $M_{\phi\phi}$-0.55±.15; $M_{r\theta}$-2.79±.15; $M_{\theta\phi}$2.33±.08; $M_{\phi r}$1.63±.20; Best double couple: NP1:ϕ_s301.00000°,δ67.00000°,λ86.00000°. NP2:ϕ_s131.00000°,δ23.00000°,λ100.00000°. Principal axes: T 4.1410,Plg68.0000°,Azm203.0000°; N 1.0490,Plg4.0000°,Azm302.0000°; P -5.1970,Plg22.0000°,Azm34.0000° M_o4.66900×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.1km az=150.0.
IDC V 06 03 17 10.7–1.3 2.82S 139.46E 0 3.7,3.6L
¶17202896
IDC Error ellipse: s-maj=29.3km s-min=20.6km az=151.0.
IDC V 06 03 46 13.1–1.4 2.98S 139.69E 0 3.4,3.3
¶17202898
IDC Error ellipse: s-maj=33.9km s-min=19.7km az=142.0.
ISC V 06 04 10 15.2–.40 2.93S–.05 139.31E–.04 46 4.3b,4.0s 72 1-147
IDC V 06 04 10 08.9–.53 2.81S 139.32E 0 4.5L,4.4 ¶16501752
DJA V 06 04 10 09.6–1.5 4S–13 140E–9.0 25–17 4.9b,4.5
NEIC V 06 04 10 12.3–2.5 2.77S 139.22E 21–18 4.6b,4.5
ISCJB V 06 04 10 13.6–.28 2.88S–.03 139.20E–.04 46 4.4b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 06 05 34 20.5–1.3 2.71S 139.28E 0 3.9,3.8L
¶17202903
IDC Error ellipse: s-maj=19.8km s-min=12.5km az=139.0.
IDC V 06 16 27 19.2–1.2 2.76S 139.39E 0 3.8,3.6
¶17202936
IDC Error ellipse: s-maj=25.7km s-min=18.7km az=148.0.
IDC V 07 09 08 02.2–1.1 2.86S 139.37E 0 3.9,3.9L
¶17202979
IDC Error ellipse: s-maj=20.4km s-min=11.5km az=137.0.
IDC V 08 18 55 12.1–1.3 2.79S 139.39E 0 3.7L,3.6
¶17203066
IDC Error ellipse: s-maj=24.1km s-min=18.5km az=141.0.
ISC V 09 03 14 34.7–.47 2.86S–.05 139.06E–.04 46 4.2b,3.5s 48 1-147
IDC V 09 03 14 28.3–.55 2.86S 139.17E 0 4.3,4.3L ¶16529241
DJA V 09 03 14 31.7–1.1 3S–8.0 139E–3.0 20–15 4.8,4.8b
ISCJB V 09 03 14 32.7–.35 2.91S–.04 139.12E–.04 46 4.2b,3.5s
NEIC V 09 03 14 33.9–.98 2.89S 139.20E 38–10 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=9.6km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=165.8.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.5km az=97.0.
IDC V 11 21 55 55.4–1.5 2.98S 139.33E 0 3.7,3.7L
¶17203437
IDC Error ellipse: s-maj=33.8km s-min=15.3km az=154.0.
IDC V 14 19 08 19.6–1.6 1.61S 138.67E 0 3.8,3.6L
¶17203634
IDC Error ellipse: s-maj=38.0km s-min=27.2km az=67.0.
ISC V 17 22 36 53.6–.99 2.3S–.10 140.9E–.20 31 4.0b 13 0-147
ISCJB V 17 22 36 51.4–.99 2.33S–.09 141.0E–.20 31 4.0b ¶16710140
NEIC V 17 22 36 53.0–1.6 2.28S 140.88E 25–9 4.1b
IDC V 17 22 36 53.1–2.4 2.25S 140.87E 23–14 4.0,4.0L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=27.9km s-min=11.9km az=12.2.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=10.6km az=90.0.
IDC Error ellipse: s-maj=34.3km s-min=21.5km az=89.0.
ISC V 23 01 02 11.3–1.1 2.7S–.20 139.4E–.20 27 4.2b,3.2s 7 1-76
IDC V 23 01 02 07.5–.94 2.62S 139.27E 0 4.3,4.2L ¶17204266
ISCJB V 23 01 02 09.5–.85 2.7S–.10 139.3E–.10 27 4.0b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC V 31 15 17 40.6–.40 2.54S–.05 140.16E–.06 25 4.6b,3.5s 74 1-147
IDC V 31 15 17 37.0–.51 2.43S 140.10E 0 4.4,4.3 ¶16577360
ISCJB V 31 15 17 38.9–.26 2.53S–.04 140.16E–.05 25 4.5b,3.6s
NEIC V 31 15 17 38.9–1.2 2.47S 140.14E 14–8 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=7.9km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=1.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.7km az=113.0.
ISC VI 04 17 12 43.2–.85 2.9S–.10 139.1E–.20 46 3.9b 8 2-86
IDC VI 04 17 12 40.2–4.8 2.79S 139.15E 21–33 4.0,3.9 ¶17205241
ISCJB VI 04 17 12 41.4–.74 2.9S–.10 139.0E–.10 46 3.9b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 25 04 32 18.3–.55 2.87S–.09 139.12E–.05 46 4.3b,3.4s 30 1-137
DJA VI 25 04 32 09.3–2.5 4S–13 140E–10 27–29 4.4b,4.4 ¶16731418
IDC VI 25 04 32 12.2–.70 2.71S 139.11E 0 4.3,4.2
NEIC VI 25 04 32 14.8–3.6 2.76S 139.23E 20–23 4.4b,4.2
ISCJB VI 25 04 32 16.8–.40 2.82S–.07 139.07E–.05 46 4.3b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 30 15 21 09.4–.96 2.3S–.20 139.01E–.08 29 3.7b 10 1-85
IDC VI 30 15 21 05.2–1.1 2.37S 139.00E 0 3.8,3.6 ¶17207264
ISCJB VI 30 15 21 08.5–.72 2.3S–.10 138.89E–.05 29 3.5b,3.6
DJA VI 30 15 21 08.6–1.5 4S–55 139E–10 75–84 4.2b,3.9
ISC Event type ke.
ISCJB Event type ke.

(199) Admiralty Islands region.

IDC I 06 22 55 17.5–5.1 2.37S 146.71E 0 4.0,3.7
¶17189617
IDC Error ellipse: s-maj=260.9km s-min=69.8km az=112.0.
IDC III 05 06 19 32.9–1.9 0.77S 146.59E 0 3.6,3.4
¶17193270
IDC Error ellipse: s-maj=101.7km s-min=32.5km az=115.0.
ISC III 08 09 17 05.5–.67 2.78S–.09 147.51E–.10 32 4.1b,4.0s 22 7-147
IDC III 08 09 17 00.0–.90 2.93S 147.52E 0 4.3,4.1 ¶16298666
ISCJB III 08 09 17 03.3–.55 2.92S–.07 147.48E–.07 32 4.1b,4.0s
NEIC III 08 09 17 05.6–.54 2.91S 147.45E 35 4.5b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=34.5km s-min=16.7km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=9.3km az=144.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=10.4km az=111.0.
ISC III 08 10 38 40.0–.78 2.4S–.10 147.1E–.10 35 3.9b,3.3s 13 7-144
IDC III 08 10 38 34.4–1.1 2.36S 147.10E 0 4.2,3.9b ¶16449412
ISCJB III 08 10 38 37.8–.71 2.4S–.10 147.0E–.10 33 3.8b,3.3s
NEIC III 08 10 38 39.5–.49 2.41S 147.01E 35 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=60.2km s-min=20.5km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=14.4km az=38.9.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=11.5km az=125.0.
ISC IV 01 17 33 44.2–1.1 3.0S–.10 148.1E–.10 10 3.8b 11 1-82

ISCJB	IV	01 17 33 42.5–1.1	2.81S–.10	148.2E–.10	10	4.0s,3.8b			¶16531997
NEIC	IV	01 17 33 43.7–1.1	2.78S	148.25E	10	4.1b,3.8b			
IDC	IV	01 17 33 46.5–1.4	3.30S	148.16E	0	5.1L,4.2			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=20.3km s-min=9.0km az=142.8.								
NEIC	Event type se. Error ellipse: s-maj=20.1km s-min=13.7km az=213.0.								
IDC	Error ellipse: s-maj=48.9km s-min=25.6km az=132.0.								
IDC	**IV**	**06 20 58 10.4–2.3**	**1.00S**	**146.04E**	**0**	**3.6,3.5b**			**¶17200052**
IDC	Error ellipse: s-maj=47.6km s-min=30.2km az=94.0.								
IDC	**IV**	**23 08 54 58.0–1.8**	**2.44S**	**148.03E**	**0**	**3.9,3.6**			**¶17201867**
IDC	Error ellipse: s-maj=73.1km s-min=26.6km az=110.0.								
IDC	**IV**	**23 20 32 13.9–1.8**	**2.48S**	**147.21E**	**0**	**3.8,3.6**			**¶17201905**
IDC	Error ellipse: s-maj=104.1km s-min=30.8km az=117.0.								
IDC	**IV**	**23 20 42 58.8–1.3**	**2.97S**	**148.00E**	**0**	**4.0,3.7**			**¶17201907**
IDC	Error ellipse: s-maj=50.0km s-min=24.3km az=108.0.								
ISC	**VI**	**05 09 14 03.0–.80**	**1.50S–.09**	**148.9E–.20**	**35**	**3.9b,3.1s**	**19**	**8-146**	
IDC	VI	05 09 13 57.8–.93	1.44S	148.87E	0	4.1,3.9			**¶16640738**
ISCJB	VI	05 09 14 01.2–.69	1.51S–.08	148.9E–.20	33	3.9b,3.2s			
NEIC	VI	05 09 14 03.5–2.6	1.52S	148.90E	40–23	4.5b,3.2s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=33.4km s-min=17.4km az=100.0.								
ISCJB	Event type se. Error ellipse: s-maj=23.3km s-min=11.5km az=5.9.								
NEIC	Event type se. Error ellipse: s-maj=20.1km s-min=14.3km az=88.0.								

(200) Near north coast of New Guinea.

IDC	**I**	**06 22 31 22.7–1.7**	**3.88S**	**142.36E**	**0**	**3.9L,3.7**			**¶17189613**
IDC	Error ellipse: s-maj=73.4km s-min=27.2km az=104.0.								
ISC	**I**	**07 14 42 47.6–1.3**	**3.5S–.20**	**142.3E–.20**	**26**	**3.4b**	**7**	**2-147**	
IDC	I	07 14 42 44.1–1.3	3.48S	142.40E	0	3.9,3.9L			**¶17189644**
ISCJB	I	07 14 42 46.0–1.2	3.6S–.10	142.5E–.10	26	3.5b,3.9L			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**08 15 54 58.9–.69**	**3.63S–.09**	**142.3E–.10**	**26**	**3.9b**	**19**	**2-147**	
IDC	I	08 15 54 54.9–.85	3.58S	142.36E	0	4.2L,4.1			**¶16057151**
ISCJB	I	08 15 54 57.0–.61	3.67S–.06	142.33E–.08	26	4.0b,3.1s			
NEIC	I	08 15 54 58.1–3.1	3.61S	142.29E	22–22	4.1b,3.1s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=25.6km s-min=16.1km az=80.0.								
ISCJB	Event type se. Error ellipse: s-maj=13.0km s-min=7.8km az=151.5.								
NEIC	Event type se. Error ellipse: s-maj=13.4km s-min=8.9km az=63.0.								
ISC	**I**	**09 04 53 50.7–.71**	**2.86S–.09**	**141.5E–.10**	**35**	**4.1b**	**24**	**1-146**	
IDC	I	09 04 53 45.9–.92	2.77S	141.46E	0	4.0,4.0L			**¶15998092**
ISCJB	I	09 04 53 49.1–.52	2.89S–.06	141.49E–.07	35	4.2s,4.0b			
NEIC	I	09 04 53 50.8–.39	2.86S	141.49E	35	4.2b,4.0b			
ISC	Event type se.								
IDC	Error ellipse: s-maj=23.0km s-min=18.4km az=20.0.								
ISCJB	Event type se. Error ellipse: s-maj=11.0km s-min=7.9km az=148.7.								
NEIC	Event type se. Error ellipse: s-maj=11.2km s-min=7.4km az=78.0.								
IDC	**I**	**10 13 28 26.6–1.7**	**4.80S**	**145.22E**	**0**	**3.9,3.7**			**¶17189853**
IDC	Error ellipse: s-maj=49.2km s-min=27.6km az=119.0.								
ISC	**I**	**13 07 05 12.5–1.4**	**3.3S–.20**	**143.9E–.20**	**31**	**3.7b**	**6**	**3-84**	
IDC	I	13 07 05 07.7–1.5	3.29S	144.07E	0	3.8,3.7			**¶17190037**
ISCJB	I	13 07 05 11.0–1.2	3.3S–.10	143.9E–.20	31	3.5b,3.7			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**I**	**14 10 47 12.5–2.3**	**2.91S**	**141.48E**	**0**	**3.6L,3.4**			**¶17190156**
IDC	Error ellipse: s-maj=41.2km s-min=14.1km az=41.0.								
IDC	**I**	**17 04 47 13.5–3.0**	**3.89S**	**143.24E**	**0**	**4.2,4.0**			**¶17190375**
IDC	Error ellipse: s-maj=112.1km s-min=28.9km az=88.0.								
ISC	**I**	**20 02 18 02.1–.48**	**2.87S–.06**	**142.05E–.08**	**30**	**4.5b,3.6s**	**66**	**1-152**	
IDC	I	20 02 17 57.3–.62	2.90S	142.04E	0	4.4,4.3			**¶15954497**
ISCJB	I	20 02 18 00.4–.40	2.90S–.04	142.04E–.06	30	4.4b,3.6s			
NEIC	I	20 02 18 05.1–1.3	2.92S	141.83E	52–11	4.5b,3.6s			
DJA	I	20 02 18 10.8–2.0	3S–9.0	141E–7.0	11–14	5.1b,4.8b			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**I**	**25 02 26 38.0–.63**	**3.53S–.06**	**144.8E–.10**	**22**	**4.1b**	**25**	**6-150**	
ISCJB	I	25 02 26 35.9–.54	3.52S–.05	144.9E–.10	22	4.1b,3.2s			**¶16022421**
IDC	I	25 02 26 39.5–3.9	3.58S	144.80E	34–31	4.1,4.0			
NEIC	I	25 02 26 41.2–1.7	3.59S	144.80E	53–17	4.1b,4.0			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=15.8km s-min=6.9km az=1.4.								
IDC	Error ellipse: s-maj=29.5km s-min=10.1km az=104.0.								
NEIC	Event type se. Error ellipse: s-maj=17.3km s-min=11.0km az=108.0.								
ISC	**I**	**27 18 29 12.7–.73**	**3.55S–.09**	**144.8E–.20**	**22**	**3.8b**	**14**	**6-142**	
ISCJB	I	27 18 29 10.5–.62	3.60S–.07	144.8E–.10	22	3.8b,3.3s			**¶17191139**
IDC	I	27 18 29 17.5–5.0	3.68S	144.93E	70–54	3.8,3.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=21.1km s-min=8.1km az=164.2.								
IDC	Error ellipse: s-maj=32.6km s-min=22.4km az=118.0.								
IDC	**I**	**29 14 55 36.0–1.8**	**3.00S**	**141.61E**	**0**	**3.7L,3.6**			**¶17191259**
IDC	Error ellipse: s-maj=28.9km s-min=13.7km az=42.0.								
ISC	**II**	**03 22 31 56.5–.46**	**3.04S–.06**	**142.41E–.07**	**27**	**4.3b**	**45**	**2-147**	
IDC	II	03 22 31 51.7–.92	3.02S	142.58E	0	4.2,4.2L			**¶16328642**
ISCJB	II	03 22 31 54.7–.34	3.09S–.04	142.38E–.06	27	4.3b,4.2L			
NEIC	II	03 22 31 59.3–1.0	3.09S	142.36E	54–10	4.3b,4.2L			
ISC	Event type se.								
IDC	Error ellipse: s-maj=28.8km s-min=10.5km az=103.0.								
ISCJB	Event type se. Error ellipse: s-maj=8.7km s-min=5.7km az=153.1.								
NEIC	Event type se. Error ellipse: s-maj=9.9km s-min=7.1km az=66.0.								
IDC	**II**	**07 18 58 10.4–1.7**	**3.24S**	**145.08E**	**0**	**4.0,4.0L**			**¶17191874**
IDC	Error ellipse: s-maj=92.1km s-min=27.4km az=121.0.								
IDC	**II**	**10 09 57 27.5–1.6**	**4.82S**	**145.66E**	**0**	**3.7,3.7L**			**¶17192002**
IDC	Error ellipse: s-maj=51.4km s-min=26.6km az=118.0.								
ISC	**II**	**12 19 41 58.8–1.2**	**2.8S–.10**	**141.3E–.20**	**35**	**3.8b**	**13**	**1-145**	
ISCJB	II	12 19 41 56.4–.93	2.80S–.09	141.4E–.10	35	3.8b			**¶16339727**
NEIC	II	12 19 41 59.5–.67	2.77S	141.11E	35	4.1b			
IDC	II	12 19 42 00.3–4.5	2.75S	141.05E	40–32	3.9L,3.7			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=17.0km s-min=10.6km az=149.8.								
NEIC	Event type se. Error ellipse: s-maj=18.2km s-min=8.4km az=83.0.								
IDC	Error ellipse: s-maj=60.2km s-min=19.3km az=82.0.								
ISC	**II**	**13 18 50 28.6–1.3**	**3.5S–.10**	**145.5E–.40**	**23**	**3.8b,3.3s**	**7**	**20-84**	
IDC	II	13 18 50 25.0–1.4	3.47S	145.58E	0	4.0,3.9L			**¶17192165**
ISCJB	II	13 18 50 26.9–1.2	3.5S–.10	145.4E–.30	23	3.7b,3.3s			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**II**	**28 08 12 38.9–1.8**	**2.92S**	**141.47E**	**0**	**4.1s,4.1**			**¶17192988**
IDC	Error ellipse: s-maj=22.9km s-min=14.3km az=45.0.								
IDC	**III**	**11 23 04 11.0–1.7**	**2.15S**	**141.54E**	**0**	**4.0,4.0**			**¶17194146**
IDC	Error ellipse: s-maj=84.6km s-min=26.1km az=99.0.								
ISC	**III**	**15 11 15 18.4–.61**	**2.24S–.09**	**141.5E–.10**	**35**	**4.0b**	**22**	**1-147**	
IDC	III	15 11 15 13.6–.80	2.17S	141.55E	0	4.2,4.0			**¶16478210**
NEIC	III	15 11 15 15.7–2.5	2.19S	141.51E	14–15	4.4b,4.0			
ISCJB	III	15 11 15 16.2–.58	2.25S–.07	141.6E–.10	35	4.0b,4.0			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
IDC	**III**	**17 15 49 54.4–2.8**	**3.32S**	**143.01E**	**0**	**3.2,3.1**			**¶17196758**
IDC	Error ellipse: s-maj=63.2km s-min=28.7km az=84.0.								
ISC	**III**	**20 06 01 53.7–.61**	**4.64S–.07**	**145.32E–.10**	**150**	**4.2b**	**27**	**5-150**	
ISCJB	III	20 06 01 51.8–.51	4.64S–.06	145.30E–.08	150	4.2b			**¶16479664**
IDC	III	20 06 01 54.6–1.4	4.68S	145.43E	164–14	4.4,4.1			
NEIC	III	20 06 01 55.9–.88	4.71S	145.27E	174–8	4.8b,4.1			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=11.6km s-min=6.9km az=155.2.								
IDC	Error ellipse: s-maj=18.6km s-min=8.7km az=102.0.								
NEIC	Event type se. Error ellipse: s-maj=12.1km s-min=7.4km az=85.0.								
ISC	**III**	**20 14 05 02.4–.39**	**3.46S–.05**	**145.71E–.06**	**23**	**4.8b,4.5s**	**140**	**2-151**	
IDC	III	20 14 04 58.2–.60	3.45S	145.58E	0	4.5,4.4			**¶16341348**
NEIC	III	20 14 05 00.3–3.2	3.43S	145.61E	11–20	4.9b,4.4			
BJI	III	20 14 05 00.4	3.40S	145.60E	18	5.2b,4.9s			
ISCJB	III	20 14 05 00.6–.25	3.40S–.03	145.68E–.04	23	4.8b,4.4s			
GCMT	III	20 14 05 00.3–.20	3.35S	145.54E	12	5.1W,4.4s			
DJA	III	20 14 05 22.7–1.3	4S–9.0	145E–11	129–8	6.5,5.3b			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c42; s108,c171;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.24±.14 $M_{\theta\theta}$-0.13±.12; $M_{\phi\phi}$-0.11±.14; $M_{r\theta}$1.45±.37; $M_{\theta\phi}$4.93±.09; $M_{\phi r}$0.35±.34; Best double couple: NP1:ϕ_s91.00000°,δ86.00000°,λ17.00000°. NP2:ϕ_s359.00000°,δ74.00000°,λ175.00000°. Principal axes: T 5.1430,Plg15.0000°,Azm316.0000°; N 0.0230,Plg73.0000°,Azm105.0000° ; P -5.1660,Plg8.0000°,Azm224.0000° $M_0$5.15500×10^{16}								
IDC	**III**	**29 08 05 12.3–4.1**	**4.96S**	**144.66E**	**0**	**4.0,3.9**			**¶17199050**
IDC	Error ellipse: s-maj=67.2km s-min=23.8km az=46.0.								
IDC	**IV**	**01 00 15 28.1–16**	**3.86S**	**145.60E**	**0**	**3.9,3.6**			**¶17199365**
IDC	Error ellipse: s-maj=379.4km s-min=36.2km az=84.0.								
ISC	**IV**	**09 11 44 53.8–1.2**	**4.9S–.10**	**144.2E–.20**	**98**	**3.4b**	**9**	**4-84**	
ISCJB	IV	09 11 44 51.9–1.2	4.9S–.10	144.2E–.10	98	3.2b			**¶17200332**
IDC	IV	09 11 44 54.9–1.8	4.91S	144.15E	116–16	3.4,3.1			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=24.0km s-min=9.7km az=142.1.								
IDC	Error ellipse: s-maj=31.2km s-min=11.0km az=51.0.								
ISC	**IV**	**13 13 22 05.4–.95**	**5.0S–.10**	**145.0E–.10**	**54**	**3.6b**	**11**	**5-85**	
ISCJB	IV	13 13 22 03.6–.85	5.00S–.09	145.0E–.10	54	3.6s,3.6b			**¶17200899**
IDC	IV	13 13 22 07.6–2.0	5.10S	144.96E	81–19	3.8,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=18.5km s-min=7.7km az=145.0.								
IDC	Error ellipse: s-maj=25.4km s-min=11.4km az=52.0.								
ISC	**IV**	**18 08 33 41.5–.47**	**4.98S–.05**	**145.52E–.08**	**64**	**4.4b**	**47**	**3-99**	
IDC	IV	18 08 33 37.0–.82	4.85S	145.64E	37–6	4.3L,4.1			**¶16447745**
ISCJB	IV	18 08 33 39.7–.36	4.98S–.04	145.44E–.06	64	4.4b,4.1			
BJI	IV	18 08 33 41.0	4.57S	145.96E	71	5.0b,4.7b			
NEIC	IV	18 08 33 41.7–.91	4.91S	145.34E	70–10	4.6b,4.7b			
ISC	Event type se.								
IDC	Error ellipse: s-maj=21.4km s-min=13.6km az=94.0.								
ISCJB	Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=177.5.								
NEIC	Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=117.0.								
IDC	**IV**	**26 22 46 30.0–9.2**	**4.75S**	**145.61E**	**0**	**4.0,3.9**			**¶17202191**
IDC	Error ellipse: s-maj=136.3km s-min=47.6km az=26.0.								
ISC	**IV**	**28 02 04 12.6–.36**	**3.71S–.06**	**144.44E–.06**	**26**	**4.8b,3.9s**	**176**	**3-149**	
IDC	IV	28 02 04 09.2–.51	3.67S	144.26E	0	4.6,4.5L			**¶16483644**
ISCJB	IV	28 02 04 11.0–.24	3.71S–.03	144.47E–.03	26	4.7b,3.8s			
MOS	IV	28 02 04 13.1–.97	3.66S	144.21E	41	5.0b,3.8s			
NEIC	IV	28 02 04 16.1–.82	3.67S	144.21E	54–8	4.8b,3.8s			
DJA	IV	28 02 04 20.4–.60	4S–5.0	144E–5.0	58–7	5.4b,5.0			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
IDC	**V**	**07 04 38 36.0–1.4**	**3.59S**	**142.22E**	**0**	**4.0,3.7**			**¶17202970**
IDC	Error ellipse: s-maj=38.3km s-min=22.9km az=102.0.								
ISC	**V**	**07 05 16 51.4–1.1**	**3.5S–.10**	**145.5E–.20**	**23**	**4.0b,3.1s**	**8**	**6-135**	
IDC	V	07 05 16 48.2–1.3	3.42S	145.35E	0	4.2,4.0			**¶17202973**
ISCJB	V	07 05 16 50.1–1.0	3.5S–.10	145.4E–.20	23	3.9b,3.1s			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**V**	**20 22 16 01.1–.78**	**3.10S–.09**	**145.4E–.10**	**35**	**4.1b**	**14**	**5-83**	
IDC	V	20 22 15 56.3–1.6	3.07S	145.31E	0	4.0,3.9			**¶16591602**
ISCJB	V	20 22 15 59.1–.67	3.14S–.08	145.36E–.08	33	4.1b,3.9			
NEIC	V	20 22 16 01.6–1.2	3.14S	145.23E	35–12	4.2b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=41.3km s-min=22.7km az=73.0.								
ISCJB	Event type se. Error ellipse: s-maj=12.1km s-min=10.4km az=42.0.								
NEIC	Event type se. Error ellipse: s-maj=16.1km s-min=9.5km az=79.0.								
ISC	**V**	**27 18 47 22.3–.31**	**4.40S–.03**	**144.07E–.04**	**135–2**	**4.9b**	**443**	**4-150**	
BJI	V	27 18 47 17.8	4.60S	144.55E	139	5.1b,4.9b			**¶16551200**
MOS	V	27 18 47 20.6–.89	4.33S	144.02E	129	4.9b,4.9b			
ISCJB	V	27 18 47 21.3–.55	4.34S–.02	144.05E–.03	135–5	4.9b,4.9b			
NEIC	V	27 18 47 22.9–.13	4.35S	143.99E	138	5.0b,4.9b			
IDC	V	27 18 47 22.7–.58	4.46S	144.00E	138–5	4.9,4.6			
GCMT	V	27 18 47 22.9–.10	4.45S	144.03E	139–0	5.3W,4.6			
DJA	V	27 18 47 24.8–.40	4S–3.0	144E–3.0	138–4	5.7b,5.6			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c157; s123,c220;Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.68±.02 $M_{\theta\theta}$0.06±.02; $M_{\phi\phi}$-0.73±.02; $M_{r\theta}$-0.31±.01; $M_{\theta\phi}$-0.14±.02; $M_{\phi r}$0.94±.01; Best double couple: NP1:ϕ_s348.00000°,δ73.00000°,λ75.00000°. NP2:ϕ_s210.00000° ,δ22.00000°,λ130.00000°. Principal axes: T 1.2480,Plg59.0000°,Azm237.0000° ; N -0.0400,Plg14.0000°,Azm352.0000°; P -1.2080,Plg27.0000°,Azm89.0000° $M_0$1.22800×10^{17}								
IDC	**V**	**31 00 22 43.2–2.2**	**3.49S**	**145.54E**	**0**	**3.8,3.5**			**¶17204798**
IDC	Error ellipse: s-maj=434.9km s-min=31.0km az=118.0.								
ISC	**VI**	**07 00 39 27.4–.37**	**3.67S–.04**	**145.94E–.06**	**25**	**4.9b,4.0s**	**119**	**2-151**	
IDC	VI	07 00 39 22.1–.65	3.48S	145.69E	0	4.5,4.4			**¶16577408**
ISCJB	VI	07 00 39 25.5–.28	3.69S–.04	145.90E–.05	25	4.9b,3.9s			
BJI	VI	07 00 39 26.6	3.25S	146.32E	31	4.9b,4.7b			
GCMT	VI	07 00 39 30.3–.40	3.36S	145.61E	28–1	4.9W,4.7b			
NEIC	VI	07 00 39 30.3–1.9	3.56S	145.50E	50–18	5.0b,4.7b			
DJA	VI	07 00 39 41.4–1.4	4S–11	146E–11	107–12	5.4b,4.8			
ISC	Event type se.								
ISCJB	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c21; s58,c81;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.42±.21 $M_{\theta\theta}$0.19±.16; $M_{\phi\phi}$-0.60±.19; $M_{r\theta}$-0.88±.27; $M_{\theta\phi}$2.96±.12; $M_{\phi r}$0.72±.26; Best double couple: NP1:ϕ_s93.00000°,δ82.00000°,λ-15.00000°. NP2:ϕ_s185.00000°,δ75.00000°,λ-172.00000°. Principal axes: T 2.7930,Plg5.0000°,Azm140.0000°; N 0.7250,Plg73.0000°,Azm246.0000° ; P -3.5180,Plg16.0000°,Azm48.0000° $M_0$3.15500×10^{16}								
NEIC	Event type se.								
ISC	**VI**	**21 02 37 51.0–1.1**	**4.22S–.10**	**145.6E–.20**	**35**	**4.2b**	**15**	**5-143**	
IDC	VI	21 02 37 45.8–1.4	4.14S	145.64E	0	4.4,4.3L			**¶16731098**
ISCJB	VI	21 02 37 49.0–.98	4.22S–.09	145.6E–.20	33	4.0b,4.3L			
NEIC	VI	21 02 37 50.9–.71	4.22S	145.68E	35	4.5b,4.3L			
ISC	Event type se.								
IDC	Error ellipse: s-maj=39.8km s-min=21.2km az=91.0.								
ISCJB	Event type se. Error ellipse: s-maj=23.1km s-min=12.8km az=170.8.								
NEIC	Event type se. Error ellipse: s-maj=17.5km s-min=9.3km az=80.0.								

(201) Irian Jaya.

ISC	**I**	**05 16 58 14.3–.63**	**3.58S–.07**	**140.18E–.10**	**56**	**3.6b,2.9s**	**16**	**1-146**	

ISCJB I 05 16 58 12.3–.56 3.65S–.05 140.12E–.08 56 3.6b,3.0s ¶17189523
IDC I 05 16 58 13.2–2.6 3.58S 140.12E 36–23 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.0km az=21.9.
IDC Error ellipse: s-maj=22.9km s-min=13.2km az=101.0.
IDC I 05 23 46 53.6–2.0 3.53S 140.65E 0 3.8,3.7L
¶17189555

IDC Error ellipse: s-maj=407.5km s-min=30.4km az=110.0.
IDC I 08 19 18 23.5–1.6 2.22S 138.83E 0 3.7,3.6L
¶17189716

IDC Error ellipse: s-maj=34.1km s-min=22.6km az=146.0.
ISC I 10 15 53 58.6–.75 3.39S–.08 139.80E–.08 54 3.7b 19 1-145
IDC I 10 15 53 52.3–.93 3.15S 139.82E 0 4.1,4.0 ¶15994813
ISCJB I 10 15 53 56.5–.53 3.34S–.05 139.97E–.06 54 3.7b,3.3s
NEIC I 10 15 53 58.0–1.4 3.19S 139.97E 47–17 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=11.5km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.4km az=160.4.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=10.4km az=105.0.
ISC I 19 04 10 32.5–.75 3.3S–.10 139.1E–.10 37 4.2b 13 2-144
ISCJB I 19 04 10 30.7–.58 3.32S–.08 139.07E–.07 37 4.1b ¶17190524
IDC I 19 04 10 34.5–2.9 3.26S 139.21E 57–32 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=8.6km az=140.9.
IDC Error ellipse: s-maj=31.6km s-min=15.5km az=121.0.
ISC I 19 19 02 13.7–.61 4.79S–.07 140.01E–.09 35 3.7b,3.4s 20 2-145
IDC I 19 19 02 09.8–.84 4.63S 140.04E 0 4.0,4.0L ¶16151870
NEIC I 19 19 02 11.0–.52 4.63S 140.00E 10 4.5b,4.0L
ISCJB I 19 19 02 11.2–.58 4.88S–.05 140.03E–.08 35 3.6b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 21 20 26 33.7–1.9 2.11S 137.21E 0 3.7,3.5
¶17190697

IDC Error ellipse: s-maj=45.6km s-min=32.0km az=93.0.
IDC I 25 16 23 29.0–2.4 2.31S 137.07E 0 3.7,3.5
¶17190972

IDC Error ellipse: s-maj=65.6km s-min=27.3km az=76.0.
ISC I 27 09 09 01.2–.32 3.14S–.04 139.66E–.05 46 5.0s,4.8b 228 1-149
IDC I 27 09 08 54.8–.48 3.11S 139.66E 0 4.6,4.6 ¶15972649
BJI I 27 09 08 55.4 3.56S 139.95E 50 5.6b,5.6s
MOS I 27 09 08 57.9–.93 3.10S 139.54E 33 4.9b,5.6s
ISCJB I 27 09 08 59.7–.19 3.06S–.03 139.64E–.03 46 5.0s,4.8b
DJA I 27 09 09 01.7–.60 3S–5.0 140E–4.0 37–6 6.5b,6.3
NEIC I 27 09 09 02.0–.87 3.16S 139.50E 55–8 5.0b,6.3
ISC Event type se.
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=140.0.
MOS Error ellipse: s-maj=11.3km s-min=6.4km az=101.9.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.8km az=159.1.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.7km az=69.0.
ISC I 29 02 11 22.4–1.3 3.1S–.10 136.3E–.10 35 9 4-134
IDC I 29 02 11 17.2–1.7 2.63S 136.09E 0 4.1L,4.0 ¶17191225
ISC Event type ke.
IDC Error ellipse: s-maj=49.3km s-min=28.0km az=119.0.
ISC II 01 22 09 39.8–.75 3.27S–.08 138.42E–.08 71 3.9b 21 2-147
ISCJB II 01 22 09 39.0–.50 3.10S–.06 138.33E–.04 71 3.8b ¶17191517
DJA II 01 22 09 40.4–.30 3S–7.0 138E–3.0 10 5.2b,4.7b
IDC II 01 22 09 40.5–2.2 3.00S 138.31E 63–22 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.0km az=164.0.
IDC Error ellipse: s-maj=22.2km s-min=21.0km az=124.0.
IDC II 03 15 04 59.7–1.5 3.63S 138.12E 0 3.3,3.2
¶17191598

IDC Error ellipse: s-maj=39.1km s-min=28.8km az=107.0.
IDC II 06 04 08 37.4–1.1 2.84S 138.93E 0 4.0,3.9L
¶17191775

IDC Error ellipse: s-maj=28.4km s-min=20.1km az=139.0.
IDC II 08 23 48 51.7–2.8 3.52S 136.44E 0 3.7,3.7L
¶17191918

IDC Error ellipse: s-maj=108.3km s-min=30.3km az=81.0.
IDC II 10 02 55 21.2–5.0 3.40S 139.16E 0 3.5,3.3
¶17191988

IDC Error ellipse: s-maj=198.4km s-min=30.6km az=86.0.
IDC II 17 19 36 42.7–4.2 3.64S 139.26E 0 3.6,3.6L
¶17192443

IDC Error ellipse: s-maj=177.1km s-min=28.7km az=88.0.
IDC II 23 00 56 44.3–1.4 3.19S 139.23E 0 3.8L,3.6
¶17192731

IDC Error ellipse: s-maj=36.1km s-min=26.2km az=128.0.
ISC II 26 07 21 26.3–.71 2.17S–.08 138.14E–.09 30 3.9b 17 3-86
IDC II 26 07 21 21.8–.82 2.09S 138.16E 0 4.0,3.9L ¶16245288
ISCJB II 26 07 21 24.6–.53 2.14S–.06 138.10E–.06 30 3.9b,3.8s
NEIC II 26 07 21 27.2–.61 2.09S 138.20E 35 4.4b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=16.2km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=8.7km az=140.8.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=11.5km az=75.0.
IDC II 26 19 45 07.3–1.6 3.93S 138.39E 0 4.1L,4.0
¶17192918

IDC Error ellipse: s-maj=79.0km s-min=29.5km az=97.0.
ISC III 01 16 15 00.1–1.5 3.2S–.20 138.9E–.30 35 3.8b 5 2-137
IDC III 01 16 14 56.0–.92 3.17S 139.08E 0 4.2L,4.1 ¶17193082
ISCJB III 01 16 14 59.3–.72 3.3S–.10 139.0E–.10 35 4.1s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 08 21 42 30.9–.33 4.77S–.03 139.17E–.04 35 4.8b,3.7s 224 2-146
BJI III 08 21 42 24.2 5.04S 139.72E 29 5.1b,5.0s ¶16293264
MOS III 08 21 42 29.7–.95 4.63S 139.17E 36 5.0b,5.0s
ISCJB III 08 21 42 29.2–.20 4.71S–.02 139.26E–.03 33 4.8b,3.8s
IDC III 08 21 42 32.4–2.6 4.60S 139.21E 39–24 4.5,4.4
NEIC III 08 21 42 32.8–.69 4.61S 139.15E 46–7 4.9b,4.4
DJA III 08 21 42 34.4–.30 5S–2.0 139E–3.0 53–4 5.4b,5.3
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Wamena.
ISC III 12 04 04 48.1–.27 3.02S–.04 139.20E–.04 46 5.4b,5.0s 233 1-160
IDC III 12 04 04 41.5–.58 2.92S 139.18E 0 5.4,5.3 ¶16310202
MOS III 12 04 04 44.8–.69 3.01S 139.11E 33 5.3b,5.3
ISCJB III 12 04 04 46.5–.18 3.01S–.03 139.24E–.02 46 5.4b,5.0s
BJI III 12 04 04 48.7 3.00S 139.10E 48 5.5b,5.2b
DJA III 12 04 04 49.5–.20 3S–3.0 139E–2.0 50–4 6.2,5.7b
NEIC III 12 04 04 49.6–.67 3.02S 139.10E 59–6 5.5b,5.7b
ISC Event type se.
IDC Error ellipse: s-maj=21.9km s-min=15.3km az=100.0.
MOS Error ellipse: s-maj=14.2km s-min=9.1km az=97.2.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=30.2.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=222.0.
ISC III 12 07 02 36.5–1.1 3.4S–.10 139.2E–.10 73 10 2-45
IDC III 12 07 02 29.6–1.3 3.34S 139.12E 0 4.4,4.3L ¶16445728
ISCJB III 12 07 02 34.6–.89 3.41S–.10 139.14E–.09 73 4.0b,4.3L
NEIC III 12 07 02 34.6–.72 3.41S 139.09E 35 4.4b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=30.1km s-min=13.6km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=12.8km az=141.9.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=10.7km az=166.0.
IDC III 14 21 55 00.0–1.2 4.25S 139.38E 0 4.1,4.0
¶17195267

IDC Error ellipse: s-maj=37.0km s-min=24.0km az=113.0.
IDC III 15 03 46 27.1–1.8 3.22S 138.97E 0 3.8,3.5L
¶17196012

IDC Error ellipse: s-maj=54.5km s-min=23.3km az=131.0.

ISC III 27 04 58 32.4–.42 3.01S–.05 139.73E–.06 46 4.4b,4.0s 73 1-146
IDC III 27 04 58 26.7–.53 2.89S 139.56E 0 4.5,4.4 ¶16481144
BJI III 27 04 58 29.1 2.88S 139.60E 27 5.0b,4.9s
ISCJB III 27 04 58 31.0–.28 3.01S–.04 139.69E–.03 46 4.4b,4.1s
NEIC III 27 04 58 30.7–2.2 2.96S 139.68E 30–16 4.6b,4.1s
DJA III 27 04 58 32.3–.50 3S–4.0 140E–3.0 16–8 5.4b,5.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 30 15 02 39.7–.53 3.53S–.06 140.14E–.09 56 3.9b,3.7s 32 1-146
DJA III 30 15 02 38.9–.80 4S–4.0 140E–5.0 27–9 6.0b,5.6 ¶16475841
ISCJB III 30 15 02 38.3–.44 3.56S–.04 140.20E–.06 56 4.2b,3.7s
IDC III 30 15 02 39.4–1.4 3.48S 140.16E 44–16 4.1,4.1
NEIC III 30 15 02 40.1–.88 3.49S 140.21E 53–9 4.1b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.8km az=10.9.
IDC Error ellipse: s-maj=20.0km s-min=10.8km az=103.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=9.4km az=57.0.
ISC IV 11 04 32 01.9–1.2 3.8S–.20 138.8E–.20 24 6 2-71
IDC IV 11 04 32 00.2–1.3 3.55S 138.36E 0 4.2,4.1 ¶17200525
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=24.4km az=113.0.
IDC IV 11 12 01 24.3–4.5 3.12S 139.87E 52–43 3.6L,3.3
¶17200603

IDC Error ellipse: s-maj=101.1km s-min=19.4km az=121.0.
IDC IV 18 16 14 59.6–1.5 4.50S 138.68E 172–19 3.9,3.6
¶17201424

IDC Error ellipse: s-maj=26.2km s-min=13.6km az=97.0.
IDC IV 19 22 24 47.1–1.6 2.81S 138.18E 0 3.3,3.2
¶17201555

IDC Error ellipse: s-maj=36.6km s-min=30.7km az=103.0.
ISC IV 21 15 36 05.8–.45 2.57S–.06 139.00E–.06 37 4.5b,3.8s 71 1-147
IDC IV 21 15 36 00.2–.57 2.45S 139.02E 0 4.2,4.2L ¶16631151
ISCJB IV 21 15 36 04.0–.25 2.53S–.04 138.95E–.03 37 4.4b,3.9s
NEIC IV 21 15 36 04.1–2.4 2.47S 138.99E 27–17 4.5b,3.9s
DJA IV 21 15 36 05.0–.30 2S–5.0 139E–2.0 10 5.8,4.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 29 14 48 05.6–1.0 2.8S–.10 137.82E–.09 35 3.9b 8 3-69
ISCJB IV 29 14 48 03.4–.91 2.77S–.10 137.80E–.07 33 3.8b ¶17202390
IDC IV 29 14 48 08.9–3.7 2.84S 138.08E 81–45 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=9.2km az=158.8.
IDC Error ellipse: s-maj=33.5km s-min=14.5km az=82.0.
DJA V 01 08 01 11.7–.50 3S–3.0 140E–4.0 10 5.9b,5.5
¶602004155
ISC V 10 21 24 19.7–.90 2.9S–.10 138.7E–.10 62 3.6b 8 2-86
ISCJB V 10 21 24 17.9–.79 2.9S–.10 138.59E–.08 62 3.7b ¶17203323
IDC V 10 21 24 20.1–4.0 2.90S 138.69E 66–46 3.9,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=9.5km az=153.5.
IDC Error ellipse: s-maj=41.3km s-min=15.9km az=122.0.
IDC V 13 16 41 07.9–1.4 2.65S 138.57E 0 3.7,3.5
¶17203559

IDC Error ellipse: s-maj=29.2km s-min=25.8km az=165.0.
ISC V 15 06 47 04.2–.31 3.07S–.03 139.70E–.03 93–2 5.5b 724 1-154
BJI V 15 06 46 58.5 3.44S 140.10E 90 5.5b,5.4b ¶16512093
ISCJB V 15 06 47 02.9–.37 3.08S–.02 139.71E–.02 93–3 5.4b,5.4b
MOS V 15 06 47 02.5–.96 3.04S 139.68E 89 5.5b,5.4b
IDC V 15 06 47 03.5–.54 3.11S 139.81E 88–4 5.2,4.9
NEIC V 15 06 47 04.0–.00 3.26S 139.67E 86 5.2,4.9
NEIC V 15 06 47 05.3–.62 3.11S 139.70E 103–6 5.6b,5.4W
DJA V 15 06 47 05.2–.20 3S–2.0 140E–2.0 92–3 6.7,6.0b
GCMT V 15 06 47 05.3–.10 3.01S 139.76E 95–0 5.4W,6.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.2km az=24.0.
MOS Error ellipse: s-maj=9.2km s-min=5.2km az=103.6.
IDC Error ellipse: s-maj=8.8km s-min=7.3km az=80.0.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}1.20 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-0.60 $M_{r\theta}$-0.50 $M_{\theta\phi}$0.70 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s316.00000° ,δ60.00000°,λ93.00000°. NP2:ϕ_s130.00000°,δ29.00000°,λ84.00000°. Principal axes: T 1.4000,Plg74.0000°,Azm235.0000°; N 0.1000,Plg2.0000°,Azm135.0000° ; P -1.5000,Plg15.0000°,Azm44.0000° $M_0$1.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=207.0. Felt [III] at Genyem, Jayapura, Sentani and Wamena. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17} Nm; M_{rr}1.51 $M_{\theta\theta}$-0.66 $M_{\phi\phi}$-0.86 $M_{r\theta}$0.04 $M_{\theta\phi}$0.67 $M_{\phi r}$0.18 Best double couple: NP1: ϕ_s134.00000°,δ43.00000°,λ82.00000°. NP2:ϕ_s325.00000°,δ47.00000°,λ97.00000°. Principal axes: T 1.5300,Plg84.0000°,Azm297.0000°; N -0.0900,Plg5.0000°,Azm140.0000° ; P -1.4400,Plg2.0000°,Azm49.0000° $M_0$1.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c184; s115,c206;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40±.02 $M_{\theta\theta}$-0.81±.02; $M_{\phi\phi}$-0.58±.03; $M_{r\theta}$0.06±.02; $M_{\theta\phi}$0.83±.02; $M_{\phi r}$0.26±.02; Best double couple: NP1: ϕ_s321.00000°,δ48.00000°,λ104.00000°. NP2:ϕ_s121.00000°,δ43.00000°,λ75.00000°. Principal axes: T 1.4470,Plg80.0000°,Azm298.0000°; N 0.0940,Plg10.0000°,Azm132.0000° ; P -1.5360,Plg2.0000°,Azm42.0000° $M_0$1.49100×10^{17}
IDC V 18 21 20 17.0–1.5 2.89S 138.62E 0 3.5,3.4b
¶17203911

IDC Error ellipse: s-maj=33.2km s-min=27.1km az=100.0.
ISC V 20 20 00 04.7–.58 3.11S–.07 139.57E–.07 46 4.2b 42 1-144
ISCJB V 20 20 00 02.1–.42 3.04S–.04 139.69E–.07 46 4.3b ¶16710438
IDC V 20 20 00 07.7–1.9 3.08S 139.63E 80–23 4.2,3.9
NEIC V 20 20 00 07.3–.92 3.13S 139.72E 82–9 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.1km az=171.4.
IDC Error ellipse: s-maj=32.9km s-min=13.1km az=100.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.3km az=92.0.
ISC V 30 12 46 58.8–.83 4.50S–.09 139.8E–.10 27 4.0b 10 2-146
IDC V 30 12 46 55.2–.97 4.46S 139.70E 0 4.2,4.1 ¶17204762
ISCJB V 30 12 46 56.3–.66 4.61S–.06 139.8E–.10 27 3.8b,2.8s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 06 09 59 29.3–1.2 3.11S 139.57E 0 4.0,4.0L
¶17205405

IDC Error ellipse: s-maj=26.1km s-min=13.2km az=144.0.
IDC VI 08 19 12 44.7–1.6 3.75S 140.05E 0 3.5,3.4L
¶17205566

IDC Error ellipse: s-maj=78.2km s-min=19.0km az=113.0.
ISC VI 21 16 45 07.5–.35 3.70S–.04 140.18E–.05 56 4.5b,3.7s 99 1-146
BJI VI 21 16 45 00.1 4.56S 140.74E 67 5.0b,4.8s ¶16646383
IDC VI 21 16 45 00.4–.45 3.59S 140.01E 0 4.9L,4.4
DJA VI 21 16 45 04.2–.30 4S–3.0 140E–4.0 10 5.3b,5.2b
ISCJB VI 21 16 45 05.7–.23 3.67S–.03 140.24E–.04 56 4.5b,3.7s
NEIC VI 21 16 45 07.5–.63 3.61S 140.21E 57–6 4.8b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=10.0km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=166.6.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.9km az=90.0.
ISC VI 23 23 04 38.7–.53 3.12S–.07 140.7E–.10 10 4.3b 22 1-146
ISCJB VI 23 23 04 36.8–.45 3.15S–.06 140.68E–.08 10 4.6b ¶16731331
IDC VI 23 23 04 37.4–1.2 3.25S 140.84E 0 4.3L,4.2
NEIC VI 23 23 04 39.3–1.3 3.12S 140.67E 14–8 4.3b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=8.1km az=3.0.
IDC Error ellipse: s-maj=42.0km s-min=9.5km az=85.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=92.0.
IDC VI 26 14 02 03.7–1.5 3.23S 137.24E 0 3.6,3.4
¶17206998

IDC Error ellipse: s-maj=33.1km s-min=25.3km az=133.0.
ISC VI 26 17 58 41.7–.68 2.89S–.07 138.62E–.06 35 4.0b 22 2-86

DJA	VI	26 17 58 33.0–1.3	1S–27	139E–10	159–36	4.8b,4.4		¶16731545
IDC	VI	26 17 58 36.9–.79	2.75S	138.69E	0	4.2,4.1		
ISCJB	VI	26 17 58 40.1–.49	2.83S–.07	138.58E–.07	35	4.0b,3.6s		
NEIC	VI	26 17 58 43.6–1.6	2.85S	138.83E	53–18	4.1b,3.6s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=27.5km s-min=17.8km az=95.0.							
ISCJB	Event type se. Error ellipse: s-maj=10.2km s-min=9.4km az=31.0.							
NEIC	Event type se. Error ellipse: s-maj=18.2km s-min=10.3km az=126.0.							
IDC	**VI**	**26 18 21 21.2–1.7**	**2.90S**	**138.63E**	**0**	**4.0,3.7**		**¶17207014**
IDC	Error ellipse: s-maj=37.2km s-min=29.4km az=124.0.							
IDC	**VI**	**26 18 31 19.1–2.1**	**4.93S**	**139.78E**	**0**	**3.7,3.5**		**¶17207016**
IDC	Error ellipse: s-maj=89.6km s-min=25.8km az=104.0.							
ISC	**VI**	**26 19 13 28.3–.38**	**2.96S–.05**	**138.69E–.05**	**62**	**4.5b**	**85**	**2-147**
IDC	VI	26 19 13 20.4–.58	2.66S	138.73E	0	4.4,4.3		¶16683827
BJI	VI	26 19 13 22.2	2.90S	138.60E	25	5.1b,4.9s		
DJA	VI	26 19 13 24.2–.30	3S–5.0	139E–2.0	10	5.3b,4.9b		
ISCJB	VI	26 19 13 25.8–.26	2.86S–.03	138.59E–.04	62	4.5b,4.9b		
NEIC	VI	26 19 13 25.5–.97	2.78S	138.69E	41–10	4.7b,4.9b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=22.7km s-min=14.7km az=79.0.							
ISCJB	Event type se. Error ellipse: s-maj=6.3km s-min=5.0km az=179.0.							
NEIC	Event type se. Error ellipse: s-maj=7.9km s-min=7.5km az=224.0.							
ISC	**VI**	**28 02 11 03.9–.50**	**2.35S–.09**	**138.98E–.06**	**37**	**4.5b,3.7s**	**32**	**1-138**
IDC	VI	28 02 10 58.1–.65	2.32S	138.99E	0	4.5,4.4		¶16731662
NEIC	VI	28 02 11 00.1–4.2	2.35S	138.96E	12–26	4.4b,4.4		
DJA	VI	28 02 11 01.8–1.6	2S–11	139E–3.0	15–12	4.7,4.7b		
ISCJB	VI	28 02 11 02.2–.36	2.36S–.07	138.89E–.04	37	4.4b,3.7s		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**VI**	**29 18 18 15.3–4.6**	**2.28S**	**138.71E**	**0**	**3.7,3.6**		**¶17207210**
IDC	Error ellipse: s-maj=204.8km s-min=26.5km az=87.0.							
ISC	**VI**	**30 15 46 07.1–.91**	**2.4S–.20**	**138.99E–.10**	**37**	**3.8b**	**8**	**2-85**
ISCJB	VI	30 15 46 05.5–.81	2.4S–.10	138.94E–.07	37	3.6b		¶17207266
IDC	VI	30 15 46 07.5–3.8	2.42S	139.00E	41–38	3.7,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=17.3km s-min=10.3km az=177.5.							
IDC	Error ellipse: s-maj=25.5km s-min=18.9km az=146.0.							

(202) New Guinea.

IDC	**I**	**02 07 42 08.7–2.1**	**4.28S**	**143.56E**	**159–20**	**4.0,3.6**		**¶17189192**
IDC	Error ellipse: s-maj=27.8km s-min=16.6km az=90.0.							
ISC	**I**	**03 17 01 57.8–.57**	**6.20S–.06**	**142.21E–.07**	**35**	**4.1b**	**44**	**3-147**
IDC	I	03 17 01 51.6–1.2	6.05S	142.63E	0	4.2,4.2L		¶16017927
ISCJB	I	03 17 01 55.9–.43	6.08S–.04	142.24E–.05	33	4.0b,4.2L		
NEIC	I	03 17 01 56.4–3.1	6.09S	142.36E	25–24	4.4b,4.2L		
DJA	I	03 17 01 57.2–1.7	6S–3.0	142E–3.0	23–19	5.2,5.0		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**I**	**06 00 23 59.5–.25**	**4.21S–.03**	**142.24E–.03**	**111–1**	**5.3b**	**838**	**2-158**
BJI	I	06 00 23 55.1	4.36S	142.65E	109	5.2b,5.1b		¶15906293
ISCJB	I	06 00 23 58.6–.44	4.15S–.02	142.26E–.02	115–4	5.2b,5.1b		
NEIC	I	06 00 23 59.6–.13	4.12S	142.24E	113	5.5b,5.1b		
MOS	I	06 00 23 59.0–1.1	4.09S	142.28E	118	5.1b,5.1b		
GCMT	I	06 00 23 59.6–.10	4.16S	142.19E	114–0	5.3W,5.1b		
IDC	I	06 00 23 59.6–.34	4.14S	142.23E	114–2	5.0,4.7		
DJA	I	06 00 24 03.8–.40	4S–3.0	142E–3.0	137–4	5.6,5.6b		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c162; s118,c211;Duration: 1$\mathfrak{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.09±.02 $M_{\theta\theta}$-1.08±.02; $M_{\phi\phi}$-0.01±.02; $M_{r\theta}$-0.44±.02; $M_{\theta\phi}$0.27±.02; $M_{\phi r}$0.15±.02; Best double couple: NP1:ϕ_s286.00000°,δ56.00000°,λ93.00000°. NP2:ϕ_s101.00000° ,δ34.00000°,λ86.00000°. Principal axes: T 1.1840,Plg79.0000°,Azm206.0000° ; N 0.0510,Plg2.0000°,Azm104.0000°; P -1.2370,Plg11.0000°,Azm14.0000° $M_0$1.21000×10^{17}							
IDC	**I**	**06 22 31 50.5–1.8**	**4.31S**	**142.18E**	**0**	**3.7,3.5**		**¶17189616**
IDC	Error ellipse: s-maj=81.6km s-min=29.5km az=105.0.							
IDC	**I**	**08 19 13 31.6–6.8**	**3.84S**	**141.35E**	**34–51**	**3.5,3.5**		**¶17189715**
IDC	Error ellipse: s-maj=62.1km s-min=18.4km az=93.0.							
IDC	**I**	**11 13 26 19.5–1.6**	**5.15S**	**144.54E**	**0**	**3.7,3.5**		**¶17189919**
IDC	Error ellipse: s-maj=41.0km s-min=28.3km az=85.0.							
IDC	**I**	**15 17 30 14.7–2.7**	**4.52S**	**143.49E**	**80–22**	**3.7,3.5**		**¶17190270**
IDC	Error ellipse: s-maj=50.9km s-min=16.8km az=49.0.							
ISC	**I**	**24 01 41 12.6–1.3**	**6.3S–.20**	**143.2E–.10**	**35**	**3.6b**	**7**	**5-79**
IDC	I	24 01 41 07.8–1.3	6.12S	143.27E	0	4.0,3.8		¶17190849
ISCJB	I	24 01 41 11.0–.92	6.2S–.10	143.22E–.10	33	3.6b,3.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**01 10 54 25.2–.90**	**3.95S–.08**	**141.1E–.10**	**35**	**3.8b**	**9**	**1-86**
ISCJB	II	01 10 54 22.9–.69	3.93S–.06	141.32E–.09	33	3.7b		¶17191473
IDC	II	01 10 54 26.1–1.3	3.89S	141.21E	64–12	3.8,3.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=13.6km s-min=7.0km az=149.8.							
IDC	Error ellipse: s-maj=18.3km s-min=10.6km az=75.0.							
ISC	**II**	**02 08 06 33.9–.53**	**6.14S–.06**	**142.16E–.08**	**35**	**4.1b**	**29**	**4-147**
ISCJB	II	02 08 06 32.2–.42	6.05S–.04	142.25E–.06	35	4.0b,3.2s		¶16339698
NEIC	II	02 08 06 34.7–1.2	6.02S	142.29E	42–12	4.3b,3.2s		
IDC	II	02 08 06 34.6–3.2	5.92S	142.34E	37–28	4.1,4.1L		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=8.6km s-min=6.0km az=163.7.							
NEIC	Event type se. Error ellipse: s-maj=12.8km s-min=9.2km az=93.0.							
IDC	Error ellipse: s-maj=23.0km s-min=16.6km az=73.0.							
ISC	**II**	**04 21 30 11.0–.94**	**4.2S–.10**	**142.8E–.10**	**115**	**3.7b**	**11**	**7-85**
IDC	II	04 21 29 58.5–4.4	3.88S	142.80E	0	3.8,3.8L		¶16328706
NEIC	II	04 21 30 05.3–2.2	3.93S	142.60E	45–22	4.0b,3.8L		
ISC	Event type se.							
IDC	Error ellipse: s-maj=131.0km s-min=30.8km az=98.0.							
NEIC	Event type se. Error ellipse: s-maj=15.5km s-min=11.1km az=159.0.							
IDC	**II**	**11 07 15 34.4–2.0**	**6.46S**	**144.78E**	**0**	**3.8,3.8s**		**¶17192057**
IDC	Error ellipse: s-maj=51.4km s-min=32.1km az=75.0.							
ISC	**II**	**11 22 39 13.6–1.5**	**5.46S–.09**	**141.1E–.30**	**35**	**3.5b**	**12**	**3-146**
IDC	II	11 22 39 09.0–1.7	5.23S	141.36E	0	3.7,3.6		¶17192092
ISCJB	II	11 22 39 12.5–.60	5.31S–.06	141.08E–.08	33	3.5b,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**14 01 55 36.9–.37**	**5.13S–.04**	**144.27E–.04**	**96–2**	**5.1b**	**516**	**4-156**
BJI	II	14 01 55 33.8	5.02S	144.70E	96	5.3b,5.1b		¶16022622
IDC	II	14 01 55 35.9–2.5	5.03S	144.20E	82–23	5.0,4.8		
ISCJB	II	14 01 55 36.1–.57	5.08S–.03	144.21E–.02	98–5	5.1b,4.8		
MOS	II	14 01 55 36.0–1.2	5.01S	144.19E	92	5.1b,4.8		
NEIC	II	14 01 55 38.4–.52	5.08S	144.17E	106–4	5.2b,4.8		
GCMT	II	14 01 55 38.3–.30	5.13S	144.07E	92–3	5.0W,4.8		
DJA	II	14 01 55 40.5–.50	5S–3.0	144E–4.0	112–4	6.2,5.4b		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c37; s75,c107;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.09±.12 $M_{\theta\theta}$0.26±.13; $M_{\phi\phi}$2.83±.14; $M_{r\theta}$0.40±.09; $M_{\theta\phi}$-2.16±.12; $M_{\phi r}$1.35±.11; Best double couple: NP1:ϕ_s170.00000°,δ56.00000°,λ-65.00000°. NP2:ϕ_s310.00000°,δ41.00000°,λ-122.00000°. Principal axes: T 4.1920,Plg8.0000°,Azm242.0000°; N -0.5880,Plg21.0000°,Azm335.0000° ; P -3.6070,Plg68.0000°,Azm132.0000° $M_0$3.89900×10^{16}							
ISC	**II**	**25 02 02 53.9–.45**	**5.06S–.06**	**142.34E–.07**	**100**	**4.6b**	**53**	**3-147**
BJI	II	25 02 02 49.4	5.34S	143.16E	123	5.2b,4.8b		¶16158859
ISCJB	II	25 02 02 52.0–.34	4.96S–.04	142.50E–.06	100	4.5b,4.8b		
IDC	II	25 02 02 53.8–2.3	4.88S	142.57E	103–18	4.5,4.2		
NEIC	II	25 02 02 55.0–.90	4.93S	142.46E	116–8	4.7b,4.2		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=8.5km s-min=5.5km az=155.1.							
IDC	Error ellipse: s-maj=23.0km s-min=12.2km az=84.0.							
NEIC	Event type se. Error ellipse: s-maj=10.3km s-min=7.5km az=65.0.							
IDC	**II**	**26 23 44 31.6–7.9**	**4.30S**	**142.62E**	**0**	**3.9,3.9s**		**¶17192924**
IDC	Error ellipse: s-maj=298.0km s-min=30.0km az=95.0.							
IDC	**III**	**01 16 49 45.6–1.9**	**3.74S**	**141.83E**	**0**	**3.6,3.5**		**¶17193084**
IDC	Error ellipse: s-maj=41.4km s-min=13.9km az=63.0.							
IDC	**IV**	**06 12 21 45.8–7.7**	**6.39S**	**145.80E**	**96–57**	**3.7,3.4L**		**¶17200003**
IDC	Error ellipse: s-maj=86.1km s-min=51.7km az=43.0.							
ISC	**IV**	**18 11 37 21.9–1.3**	**6.45S–.08**	**142.9E–.20**	**35**	**3.9b,3.1s**	**10**	**4-88**
IDC	IV	18 11 37 25.8–2.4	6.17S	142.71E	56–26	3.9,3.8		¶17201409
ISC	Event type ke.							
IDC	Error ellipse: s-maj=20.9km s-min=16.1km az=48.0.							
IDC	**IV**	**21 21 22 28.2–2.5**	**4.37S**	**143.94E**	**0**	**3.5,3.5b**		**¶17201746**
IDC	Error ellipse: s-maj=54.7km s-min=28.4km az=81.0.							
IDC	**IV**	**24 14 20 57.6–6.7**	**4.55S**	**142.63E**	**77–67**	**3.7L,3.1**		**¶17201966**
IDC	Error ellipse: s-maj=72.6km s-min=16.1km az=93.0.							
IDC	**V**	**18 21 07 44.2–1.7**	**5.51S**	**142.06E**	**0**	**4.1,4.1**		**¶17203910**
IDC	Error ellipse: s-maj=61.5km s-min=27.3km az=97.0.							
IDC	**V**	**22 14 23 50.8–1.7**	**3.49S**	**141.93E**	**0**	**3.9,3.6b**		**¶17204228**
IDC	Error ellipse: s-maj=34.8km s-min=23.0km az=72.0.							
IDC	**V**	**27 21 47 07.4–1.3**	**3.75S**	**141.30E**	**118–15**	**4.3,4.1**		**¶17204595**
IDC	Error ellipse: s-maj=37.6km s-min=18.5km az=83.0.							
IDC	**VI**	**05 18 45 44.7–1.9**	**6.55S**	**145.51E**	**0**	**3.4,3.2**		**¶17205351**
IDC	Error ellipse: s-maj=54.6km s-min=27.4km az=83.0.							
IDC	**VI**	**11 07 50 43.3–12**	**4.27S**	**143.40E**	**170–131**	**3.6L,3.5**		**¶17205763**
IDC	Error ellipse: s-maj=86.2km s-min=37.2km az=105.0.							
ISC	**VI**	**12 19 52 29.8–.45**	**4.62S–.04**	**143.80E–.05**	**97–3**	**4.9b**	**246**	**4-157**
BJI	VI	12 19 52 24.3	5.00S	144.33E	104	5.0b,4.9b		¶16591776
MOS	VI	12 19 52 27.9–1.2	4.64S	143.83E	99	5.0b,4.9b		
IDC	VI	12 19 52 28.4–1.6	4.65S	143.68E	79–15	4.8,4.5		
NEIC	VI	12 19 52 29.9–.77	4.66S	143.73E	99–7	5.0b,4.5		
ISCJB	VI	12 19 52 29.1–.68	4.66S–.03	143.75E–.04	104–6	4.8b,4.5		
DJA	VI	12 19 52 30.9–.70	5S–5.0	144E–6.0	90–7	5.4,5.3b		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**VI**	**16 17 40 44.5–1.5**	**5.69S**	**142.55E**	**0**	**3.7,3.6b**		**¶17206337**
IDC	Error ellipse: s-maj=36.3km s-min=22.4km az=68.0.							

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IDC	**I**	**03 22 49 49.7–6.5**	**3.01S**	**147.79E**	**0**	**3.7,3.4**		**¶17189367**
IDC	Error ellipse: s-maj=277.1km s-min=51.3km az=106.0.							
IDC	**I**	**03 22 55 25.6–6.6**	**3.61S**	**147.18E**	**0**	**3.3,3.1**		**¶17189368**
IDC	Error ellipse: s-maj=210.6km s-min=36.7km az=99.0.							
ISC	**I**	**04 11 31 54.2–.52**	**3.95S–.05**	**146.76E–.09**	**35**	**4.4b,3.7s**	**55**	**2-144**
IDC	I	04 11 31 48.9–.81	3.96S	146.79E	0	4.3,4.2		¶15927173
NEIC	I	04 11 31 50.5–.33	3.91S	146.75E	10	4.5b,4.2		
ISCJB	I	04 11 31 52.1–.36	4.00S–.04	146.80E–.07	33	4.3b,3.6s		
BJI	I	04 11 31 53.3	3.94S	146.64E	34	4.8b,4.8s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=28.8km s-min=13.4km az=92.0.							
NEIC	Event type se. Error ellipse: s-maj=8.9km s-min=5.3km az=102.0.							
ISCJB	Event type se. Error ellipse: s-maj=9.9km s-min=5.2km az=178.8.							
IDC	**I**	**04 12 45 19.0–4.4**	**3.58S**	**149.57E**	**0**	**3.8,3.5**		**¶17189421**
IDC	Error ellipse: s-maj=165.8km s-min=52.7km az=110.0.							
ISC	**I**	**31 16 03 48.0–.90**	**4.70S–.10**	**149.4E–.20**	**577**	**3.6b**	**16**	**5-147**
ISCJB	I	31 16 03 47.1–.77	4.61S–.08	149.3E–.20	577	3.6b		¶17191418
IDC	I	31 16 03 47.9–1.3	4.72S	149.44E	576–17	4.1,3.3		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=27.7km s-min=9.0km az=12.7.							
IDC	Error ellipse: s-maj=27.2km s-min=12.9km az=105.0.							
IDC	**II**	**02 07 19 27.4–7.3**	**4.96S**	**149.53E**	**0**	**3.8,3.7**		**¶17191527**
IDC	Error ellipse: s-maj=107.0km s-min=92.0km az=1.0.							
IDC	**II**	**09 03 54 07.9–7.2**	**4.95S**	**147.77E**	**0**	**4.0L,3.8**		**¶17191927**
IDC	Error ellipse: s-maj=301.4km s-min=50.3km az=110.0.							
IDC	**II**	**24 02 32 26.0–1.6**	**3.96S**	**146.04E**	**0**	**4.7L,4.2**		**¶17192766**
IDC	Error ellipse: s-maj=107.5km s-min=27.8km az=114.0.							
IDC	**II**	**24 02 41 16.9–10**	**3.38S**	**146.88E**	**0**	**3.5,3.3**		**¶17192768**
IDC	Error ellipse: s-maj=344.4km s-min=32.3km az=98.0.							
IDC	**III**	**08 08 18 26.5–1.5**	**3.52S**	**148.40E**	**0**	**4.2,3.9b**		**¶17193459**
IDC	Error ellipse: s-maj=101.1km s-min=23.8km az=125.0.							
IDC	**III**	**08 09 23 18.5–2.0**	**3.35S**	**148.03E**	**0**	**4.0,3.7**		**¶17193463**
IDC	Error ellipse: s-maj=76.0km s-min=26.7km az=114.0.							
IDC	**III**	**09 01 20 49.5–1.6**	**3.06S**	**147.82E**	**0**	**3.9,3.7**		**¶17193502**
IDC	Error ellipse: s-maj=67.9km s-min=22.5km az=117.0.							
IDC	**III**	**18 03 15 58.5–1.4**	**3.32S**	**148.34E**	**0**	**4.1,4.0**		**¶17196926**
IDC	Error ellipse: s-maj=61.0km s-min=23.2km az=114.0.							
ISC	**IV**	**13 23 58 04.6–.68**	**3.37S–.07**	**146.9E–.10**	**25**	**4.2b,4.0s**	**23**	**6-152**
ISCJB	IV	13 23 58 03.4–.56	3.35S–.06	146.8E–.10	25	4.0b,3.9s		¶16587501
IDC	IV	13 23 58 07.6–2.7	3.35S	146.84E	50–26	4.1,4.1		
NEIC	IV	13 23 58 07.7–1.3	3.36S	146.82E	49–12	4.4b,4.1		
GCMT	IV	13 23 58 07.7–.20	3.22S	146.95E	24–1	5.0W,4.1		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=14.5km s-min=9.0km az=176.3.							
IDC	Error ellipse: s-maj=23.7km s-min=17.3km az=78.0.							
NEIC	Event type se. Error ellipse: s-maj=14.0km s-min=8.7km az=78.0.							
GCMT	Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c42; s94,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.73±.17 $M_{\theta\theta}$0.20±.12; $M_{\phi\phi}$0.52±.14; $M_{r\theta}$-0.73±.19; $M_{\theta\phi}$3.71±.10; $M_{\phi r}$-0.13±.19; Best double couple: NP1:ϕ_s88.00000°,δ88.00000° ,λ-12.00000°. NP2:ϕ_s179.00000°,δ78.00000°,λ-178.00000°. Principal axes: T 4.1520,Plg7.0000°,Azm134.0000°; N -0.7300,Plg78.0000°,Azm260.0000° ; P -3.4230,Plg9.0000°,Azm43.0000° $M_0$3.78800×10^{16}							
ISC	**IV**	**14 00 56 08.7–1.1**	**3.4S–.10**	**146.8E–.30**	**20**	**3.9b,3.5s**	**9**	**6-144**
IDC	IV	14 00 56 06.0–1.1	3.45S	146.73E	0	4.1,3.9		¶17200969
ISCJB	IV	14 00 56 07.8–.82	3.49S–.08	146.7E–.20	20	3.7b,3.5s		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**IV**	**14 03 26 28.1–.99**	**3.5S–.10**	**146.9E–.20**	**25**	**3.7b**	**9**	**6-144**
ISCJB	IV	14 03 26 26.5–.95	3.5S–.10	146.9E–.20	25	3.7b		¶17200982

IDC IV 14 03 26 32.0–6.4 3.66S 146.99E 62–63 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.6km s-min=14.9km az=8.6.
IDC Error ellipse: s-maj=47.1km s-min=30.1km az=138.0.
IDC IV 16 01 47 02.1–3.9 3.69S 149.57E 0 4.0,3.8b
¶17201184

IDC Error ellipse: s-maj=139.1km s-min=47.6km az=114.0.
IDC IV 17 13 48 20.6–1.9 3.04S 147.74E 0 3.9,3.6b
¶17201326

IDC Error ellipse: s-maj=151.7km s-min=32.7km az=122.0.
ISC IV 22 06 41 56.1–1.3 3.5S–.10 147.0E–.30 25 3.8b,3.5s 6 6-83
IDC IV 22 06 41 52.1–1.6 3.54S 146.98E 0 4.1,3.9 ¶17201793
ISCJB IV 22 06 41 54.4–1.2 3.6S–.10 146.9E–.20 25 3.6b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 24 07 00 00.2–.78 3.21S–.07 148.8E–.20 35 4.2b,3.7s 21 6-96
IDC IV 24 06 59 54.7–.87 3.35S 148.73E 0 4.3,4.1b ¶16577876
ISCJB IV 24 06 59 58.2–.63 3.26S–.06 148.7E–.10 33 4.1b,3.7s
NEIC IV 24 07 00 00.1–.65 3.27S 148.71E 35 4.4b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=19.5km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=8.5km az=5.6.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=10.3km az=95.0.
ISC IV 30 05 45 37.0–.26 3.28S–.03 148.73E–.04 21 5.4s,5.2b 396 2-153
BJI IV 30 05 45 32.3 3.09S 148.89E 5 5.4s,5.3 ¶16587544
IDC IV 30 05 45 33.1–.41 3.32S 148.55E 0 5.2,5.2s
NEIC IV 30 05 45 35.0–.14 3.26S 148.63E 8 5.7W,5.6W
ISCJB IV 30 05 45 35.3–.14 3.32S–.02 148.63E–.03 21 5.4s,5.1b
GCMT IV 30 05 45 35.0–.10 3.20S 148.67E 15 5.8W,5.1b
NEIC IV 30 05 45 35.0–.00 3.26S 148.62E 15 5.8W,5.1b
MOS IV 30 05 45 37.9–1.1 3.30S 148.54E 41 5.3b,5.3s
DJA IV 30 05 45 37.2–.90 3S–8.0 149E–9.0 10 5.8b,5.6
ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}0.16 $M_{\theta\theta}$2.43 $M_{\phi\phi}$-2.59 $M_{r\theta}$1.10 $M_{\theta\phi}$2.29 $M_{\phi r}$0.66 Best double couple: NP1:ϕ_s116.00000° ,δ74.00000°,λ11.00000°. NP2:ϕ_s22.00000°,δ79.00000°,λ164.00000°. Principal axes: T 3.7600,Plg19.0000°,Azm338.0000°; N -0.2600,Plg70.0000°,Azm170.0000° ; P -3.4900,Plg4.0000°,Azm69.0000° M_o3.60000×10^{17}
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c211; s131,c389;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.29±.04 $M_{\theta\theta}$3.74±.04; $M_{\phi\phi}$-3.44±.04; $M_{r\theta}$1.40±.13; $M_{\theta\phi}$3.37±.04; $M_{\phi r}$0.88±.13; Best double couple: NP1:ϕ_s23.00000°,δ82.00000°,λ166.00000°. NP2:ϕ_s115.00000° ,δ76.00000°,λ8.00000°. Principal axes: T 5.5290,Plg16.0000°,Azm338.0000° ; N -0.7280,Plg74.0000°,Azm173.0000°; P -4.7960,Plg4.0000°,Azm69.0000° M_o5.16200×10^{17}
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.93 $M_{\theta\theta}$2.85 $M_{\phi\phi}$-1.93 $M_{r\theta}$2.92 $M_{\theta\phi}$2.34 $M_{\phi r}$0.63 Best double couple: NP1:ϕ_s287.00000° ,δ89.00000°,λ-39.00000°. NP2:ϕ_s18.00000°,δ51.00000°,λ-178.00000°. Principal axes: T 5.2300,Plg25.0000°,Azm339.0000°; N -2.0700,Plg50.0000°,Azm105.0000° ; P -3.1600,Plg27.0000°,Azm235.0000° M_o4.60000×10^{17}
IDC IV 30 05 52 52.8–1.2 3.30S 148.62E 0 4.1,3.9
¶17202439

IDC Error ellipse: s-maj=50.1km s-min=23.8km az=97.0.
ISC IV 30 05 56 23.5–1.0 3.1S–.10 148.3E–.30 18 3.9b 10 6-146
IDC IV 30 05 56 20.1–1.4 3.19S 148.46E 0 4.1,3.9 ¶17202440
ISCJB IV 30 05 56 21.9–.96 3.11S–.08 148.3E–.20 18 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC IV 30 06 18 00.7–6.2 3.44S 148.97E 76–59 3.7,3.6
¶17202442

IDC Error ellipse: s-maj=73.9km s-min=36.1km az=123.0.
IDC V 02 07 01 09.8–3.7 3.56S 149.39E 0 4.2,3.9b
¶17202590

IDC Error ellipse: s-maj=121.4km s-min=46.8km az=112.0.
ISC V 02 10 07 08.2–1.8 3.7S–.30 149.7E–.50 20 4.0b 6 22-147
IDC V 02 10 07 05.4–1.9 3.61S 149.61E 0 4.3,4.0 ¶17202605
ISCJB V 02 10 07 06.9–1.7 3.7S–.30 149.6E–.50 20 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC V 02 10 08 38.6–3.2 3.55S 149.33E 0 4.4,4.1b
¶17202606

IDC Error ellipse: s-maj=87.7km s-min=28.5km az=100.0.
IDC V 04 07 08 19.7–1.9 3.26S 148.41E 0 3.8,3.5
¶17202733

IDC Error ellipse: s-maj=129.6km s-min=31.2km az=121.0.
IDC V 09 09 25 39.5–1.3 3.22S 147.93E 0 4.3,4.0
¶17203117

IDC Error ellipse: s-maj=77.8km s-min=22.4km az=120.0.
ISC V 10 16 53 03.5–1.3 3.2S–.20 148.0E–.30 22 4.0b 10 6-145
IDC V 10 16 53 00.1–1.2 3.16S 148.02E 0 4.2,4.0b ¶16577261
ISCJB V 10 16 53 02.2–.89 3.2S–.10 147.9E–.20 22 4.0b,3.7s
NEIC V 10 16 53 05.3–.81 3.18S 147.81E 35 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=59.4km s-min=23.0km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=37.9km s-min=15.5km az=24.1.
NEIC Event type se. Error ellipse: s-maj=33.7km s-min=14.2km az=113.0.
ISC V 10 16 53 54.5–1.1 3.1S–.10 147.6E–.30 32 4.1b 10 6-96
IDC V 10 16 53 50.0–1.3 3.06S 147.56E 0 4.4,4.2 ¶16577264
ISCJB V 10 16 53 52.9–.94 3.2S–.10 147.6E–.20 32 4.2s,4.0b
NEIC V 10 16 53 55.1–.76 3.14S 147.65E 35 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=71.1km s-min=21.9km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=33.9km s-min=12.9km az=16.9.
NEIC Event type se. Error ellipse: s-maj=31.1km s-min=11.3km az=113.0.
IDC V 12 05 41 02.5–1.8 3.11S 147.93E 0 4.0,3.7b
¶17203458

IDC Error ellipse: s-maj=94.3km s-min=33.4km az=123.0.
IDC V 14 16 28 49.8–1.3 3.29S 147.84E 0 4.0,3.7b
¶17203622

IDC Error ellipse: s-maj=54.1km s-min=26.6km az=102.0.
IDC V 14 16 32 48.0–1.9 3.53S 147.96E 0 4.0,3.7b
¶17203624

IDC Error ellipse: s-maj=140.2km s-min=31.7km az=123.0.
IDC V 21 01 45 36.9–4.6 4.28S 149.20E 0 3.7,3.5
¶17204104

IDC Error ellipse: s-maj=130.9km s-min=28.9km az=104.0.
ISC V 25 13 16 05.3–1.4 3.6S–.20 149.6E–.30 20 4.1s,4.0b 9 6-147
IDC V 25 13 16 02.0–1.4 3.65S 149.56E 0 4.2,4.1 ¶16601773
ISCJB V 25 13 16 04.0–1.1 3.6S–.10 149.4E–.30 20 4.1s,4.0b
GCMT V 25 13 16 07.4–.20 3.44S 149.29E 15–1 5.0W,4.0b
NEIC V 25 13 16 07.4–1.0 3.65S 149.55E 35 4.6b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=47.8km s-min=22.0km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=39.7km s-min=14.8km az=23.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c42; s103,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.29±.11 $M_{\theta\theta}$1.84±.09; $M_{\phi\phi}$-1.55±.10; $M_{r\theta}$-0.22±.29; $M_{\theta\phi}$3.26±.08; $M_{\phi r}$-0.32±.29; Best double couple: NP1:ϕ_s194.00000°,δ89.00000° ,λ175.00000°. NP2:ϕ_s284.00000°,δ85.00000°,λ1.00000°. Principal axes: T 3.8490,Plg5.0000°,Azm149.0000°; N -0.3160,Plg84.0000°,Azm358.0000° ; P -3.5370,Plg3.0000°,Azm239.0000° M_o3.69300×10^{16}
NEIC Event type se. Error ellipse: s-maj=39.1km s-min=14.5km az=117.0.
IDC V 28 20 02 32.4–5.1 4.77S 147.28E 170–66 3.6,3.2
¶17204652

IDC Error ellipse: s-maj=121.6km s-min=39.3km az=107.0.
IDC V 31 18 48 53.5–2.0 4.64S 149.13E 0 3.7s,3.7
¶17204841

IDC Error ellipse: s-maj=132.3km s-min=27.0km az=128.0.
IDC VI 08 19 45 41.0–3.4 3.82S 149.84E 0 3.5,3.4
¶17205568

IDC Error ellipse: s-maj=96.1km s-min=30.3km az=98.0.
IDC VI 26 19 50 58.5–4.0 3.95S 149.42E 0 4.2,4.0b
¶17207021

IDC Error ellipse: s-maj=122.3km s-min=51.6km az=113.0.

(204) Aru Islands region.

IDC I 03 00 42 06.3–5.0 7.23S 133.50E 0 3.1,3.1b
¶17189272

IDC Error ellipse: s-maj=293.1km s-min=32.6km az=77.0.
IDC I 03 02 33 14.1–3.1 5.06S 133.85E 0 3.6,3.5L
¶17189283

IDC Error ellipse: s-maj=119.0km s-min=26.0km az=80.0.
IDC I 11 20 44 12.2–3.1 5.31S 133.35E 0 3.6,3.4
¶17189947

IDC Error ellipse: s-maj=124.2km s-min=25.6km az=80.0.
IDC II 17 00 57 22.1–3.2 5.07S 133.62E 0 3.5,3.5b
¶17192394

IDC Error ellipse: s-maj=130.4km s-min=30.5km az=82.0.
IDC II 18 12 25 48.1–4.6 5.09S 133.69E 0 3.9b,3.7
¶17192480

IDC Error ellipse: s-maj=252.2km s-min=34.1km az=77.0.
IDC II 18 13 03 26.7–3.2 5.09S 133.82E 0 3.8,3.6
¶17192481

IDC Error ellipse: s-maj=129.6km s-min=30.8km az=82.0.
IDC II 22 15 45 28.6–5.2 5.38S 132.09E 0 3.7,3.7s
¶17192712

IDC Error ellipse: s-maj=353.8km s-min=31.2km az=74.0.
IDC II 28 22 45 13.7–1.7 5.36S 133.29E 0 4.2,4.0
¶17193025

IDC Error ellipse: s-maj=65.3km s-min=26.0km az=71.0.
IDC III 06 05 56 46.1–1.9 6.09S 133.95E 0 4.0,4.0L
¶17193323

IDC Error ellipse: s-maj=73.6km s-min=26.2km az=76.0.
IDC III 09 10 45 15.0–2.3 5.99S 133.44E 0 3.7,3.6L
¶17193546

IDC Error ellipse: s-maj=78.9km s-min=18.1km az=83.0.
ISC III 10 04 43 24.2–.63 5.31S–.07 133.77E–.06 25 4.2b 25 2-150
IDC III 10 04 43 20.7–.89 5.46S 133.76E 0 4.4,4.4 ¶17193605
ISCJB III 10 04 43 21.4–.45 5.49S–.05 133.82E–.05 25 4.0b,4.4
DJA III 10 04 43 28.7–1.1 5S–4.0 134E–4.0 19–15 5.4b,5.2b
ISC Event type ke.
ISCJB Event type ke.
IDC III 10 16 22 50.8–5.3 5.14S 132.45E 0 3.3,3.3b
¶17193640

IDC Error ellipse: s-maj=342.0km s-min=30.8km az=75.0.
IDC IV 23 14 41 29.9–4.2 5.04S 132.55E 0 3.9b,3.7L
¶17201882

IDC Error ellipse: s-maj=274.2km s-min=28.2km az=77.0.
IDC IV 28 18 04 52.6–3.1 7.07S 133.96E 0 3.3,3.3b
¶17202320

IDC Error ellipse: s-maj=134.5km s-min=27.9km az=80.0.
IDC IV 30 22 45 25.2–2.9 5.91S 132.65E 0 3.3,3.3b
¶17202482

IDC Error ellipse: s-maj=122.5km s-min=29.4km az=81.0.
IDC V 21 20 32 12.1–5.7 5.32S 133.47E 0 3.8,3.6
¶17204163

IDC Error ellipse: s-maj=330.6km s-min=33.2km az=77.0.
IDC V 28 16 05 58.3–1.6 5.00S 133.55E 0 4.0,3.9b
¶17204642

IDC Error ellipse: s-maj=43.1km s-min=26.7km az=72.0.
IDC VI 08 15 29 22.4–2.3 5.49S 133.32E 0 3.4,3.3b
¶17205561

IDC Error ellipse: s-maj=82.2km s-min=14.6km az=82.0.
ISC VI 10 09 53 25.3–.47 5.02S–.04 133.92E–.05 28 4.7b,3.8s 63 3-150
IDC VI 10 09 53 22.3–.81 4.77S 133.88E 0 4.5,4.5L ¶16591886
ISCJB VI 10 09 53 23.8–.36 5.03S–.03 133.86E–.04 28 4.5b,3.7s
NEIC VI 10 09 53 26.6–.57 4.96S 133.84E 35 4.5b,3.7s
DJA VI 10 09 53 29.4–.50 5S–6.0 134E–3.0 80–31 5.2b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 10 11 31 00.8–3.1 5.36S 133.87E 0 3.7,3.5
¶17205703

IDC Error ellipse: s-maj=129.0km s-min=29.3km az=83.0.
ISC VI 10 16 49 07.4–.96 5.13S–.05 133.4E–.10 25 17 2-69
IDC VI 10 16 49 04.6–3.0 4.89S 133.77E 0 4.3,4.2 ¶17205720
ISCJB VI 10 16 49 06.1–1.2 4.97S–.07 133.5E–.20 25 3.9b,2.6s
DJA VI 10 16 49 36.0–.30 3S–3.0 132E–3.0 46–9 5.0b,4.4
ISC Event type ke.
ISCJB Event type ke.
IDC VI 11 20 40 25.3–4.0 6.39S 133.43E 0 3.9L,3.8
¶17205794

IDC Error ellipse: s-maj=227.2km s-min=32.0km az=77.0.

(206) Near south coast of New Guinea.

ISC II 06 16 18 17.0–.90 7.1S–.10 145.4E–.20 35 3.8b 8 3-87
IDC II 06 16 18 11.9–1.2 6.97S 145.45E 0 3.8,3.6 ¶17191802
ISCJB II 06 16 18 15.0–.81 7.06S–.09 145.3E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 28 11 05 25.6–.61 7.23S–.08 143.86E–.09 30 3.8b 18 4-154
ISCJB V 28 11 05 23.5–.58 7.19S–.06 143.84E–.07 30 3.6b ¶17204621
IDC V 28 11 05 27.1–1.9 7.24S 143.86E 45–20 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.3km az=151.2.
IDC Error ellipse: s-maj=20.7km s-min=13.6km az=59.0.

(207) Eastern New Guinea region.

IDC I 01 05 03 50.6–5.4 5.61S 147.49E 181–59 3.9,3.6
¶17189107

IDC Error ellipse: s-maj=90.2km s-min=27.2km az=136.0.
ISC I 01 10 42 12.3–1.3 6.4S–.10 146.9E–.20 49 3.8b 6 3-86
ISCJB I 01 10 42 10.8–1.2 6.4S–.10 146.9E–.20 49 3.8b ¶17189126
IDC I 01 10 42 14.3–5.3 6.61S 147.06E 75–59 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.9km s-min=16.9km az=10.0.
IDC Error ellipse: s-maj=62.8km s-min=27.6km az=135.0.
IDC I 01 16 46 01.4–5.2 6.03S 147.76E 0 4.1,4.0b
¶17189147

IDC Error ellipse: s-maj=81.0km s-min=44.8km az=62.0.
IDC I 06 19 03 25.8–6.5 6.39S 147.02E 75–53 3.6,3.5
¶17189606

IDC Error ellipse: s-maj=65.7km s-min=48.4km az=89.0.
ISC I 06 22 51 53.5–2.1 5.3S–.10 147.3E–.30 170 4.4b 13 4-145
ISCJB I 06 22 51 53.0–2.2 5.4S–.10 147.2E–.30 170 4.5b ¶16022586
NEIC I 06 22 51 53.9–1.7 5.32S 147.45E 182–17 4.3b
IDC I 06 22 51 56.2–5.1 5.64S 147.56E 195–47 4.3,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=44.0km s-min=10.9km az=163.5.
NEIC Event type se. Error ellipse: s-maj=31.0km s-min=15.0km az=89.0.
IDC Error ellipse: s-maj=78.3km s-min=46.2km az=126.0.
ISC I 08 02 13 14.8–1.7 4.0S–.10 146.4E–.20 35 4.0b,3.3s 14 5-144
ISCJB I 08 02 13 12.8–1.5 4.0S–.10 146.4E–.20 33 4.0b,3.3s ¶15998073
NEIC I 08 02 13 14.6–2.4 3.93S 146.45E 41–18 4.1b,3.3s
IDC I 08 02 13 15.6–5.1 4.01S 146.57E 47–57 4.1,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.6km s-min=11.1km az=148.7.
NEIC Event type se. Error ellipse: s-maj=27.5km s-min=13.4km az=55.0.
IDC Error ellipse: s-maj=61.4km s-min=30.1km az=104.0.
ISC I 09 23 05 54.3–1.0 6.02S–.08 147.5E–.30 77 3.8b 13 3-146
ISCJB I 09 23 05 52.9–.85 5.98S–.06 147.3E–.20 77 3.7b ¶16022593

NEIC I 09 23 05 53.1–1.5 6.02S 147.48E 66–14 4.0b
IDC I 09 23 05 53.5–4.4 5.97S 147.47E 69–39 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.7km s-min=8.8km az=3.0.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=9.7km az=103.0.
IDC Error ellipse: s-maj=38.1km s-min=28.1km az=109.0.
IDC I 10 08 13 34.8–3.0 5.84S 147.51E 0 4.0,3.9b
¶17189831

IDC Error ellipse: s-maj=66.8km s-min=33.0km az=92.0.
IDC I 13 05 23 15.1–7.2 6.22S 147.32E 101–66 3.8,3.6
¶17190033

IDC Error ellipse: s-maj=74.1km s-min=52.5km az=128.0.
IDC I 13 20 24 31.7–2.6 5.85S 146.88E 0 4.3s,4.3
¶17190103

IDC Error ellipse: s-maj=67.0km s-min=27.9km az=94.0.
IDC I 17 13 25 38.1–7.5 5.96S 146.81E 90–74 3.3,3.2
¶17190409

IDC Error ellipse: s-maj=73.1km s-min=36.8km az=135.0.
IDC I 21 18 06 14.6–5.4 5.92S 147.85E 166–48 4.1,3.8b
¶17190690

IDC Error ellipse: s-maj=79.1km s-min=45.4km az=128.0.
IDC I 21 19 40 21.5–3.7 5.95S 147.62E 0 3.6L,3.5
¶17190694

IDC Error ellipse: s-maj=114.5km s-min=47.1km az=113.0.
ISC I 22 00 19 03.5–1.1 5.5S–.10 147.4E–.30 170 3.9b 11 4-145
ISCJB I 22 00 19 02.5–1.2 5.52S–.09 147.3E–.20 170 3.7b **¶17190704**
IDC I 22 00 19 04.4–1.8 5.63S 147.44E 179–18 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.0km s-min=12.1km az=0.9.
IDC Error ellipse: s-maj=40.1km s-min=14.1km az=114.0.
IDC I 22 17 11 05.0–3.7 5.61S 147.33E 198–64 3.4,3.0
¶17190757

IDC Error ellipse: s-maj=138.1km s-min=33.4km az=110.0.
ISC I 23 03 29 42.2–.90 6.77S–.09 147.4E–.20 63 4.0b 23 3-146
IDC I 23 03 29 33.9–1.1 6.62S 147.52E 0 4.2,4.0 **¶16100815**
ISCJB I 23 03 29 40.5–.69 6.78S–.07 147.4E–.10 63 4.0b,4.0
NEIC I 23 03 29 40.6–2.2 6.71S 147.41E 46–21 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=36.2km s-min=18.0km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=19.3km s-min=8.9km az=10.6.
NEIC Event type se. Error ellipse: s-maj=25.5km s-min=15.5km az=114.0.
IDC I 24 04 26 42.1–3.4 6.70S 147.38E 0 3.4L,3.3
¶17190857

IDC Error ellipse: s-maj=91.8km s-min=33.5km az=91.0.
IDC I 25 02 02 42.7–3.2 5.74S 147.44E 0 3.9,3.8
¶17190934

IDC Error ellipse: s-maj=72.1km s-min=39.4km az=95.0.
ISC I 26 08 01 29.6–.33 5.53S–.03 147.18E–.04 209–2 5.2b 853 3-154
BJI I 26 08 01 26.4 5.67S 147.58E 219 5.2b,5.0b **¶16019261**
MOS I 26 08 01 27.7–.87 5.41S 147.08E 199 5.4b,5.0b
ISCJB I 26 08 01 28.8–.50 5.46S–.02 147.11E–.03 210–4 5.1b,5.0b
DJA I 26 08 01 29.4–.60 5S–3.0 147E–4.0 180–8 5.7,5.6b
IDC I 26 08 01 29.1–.52 5.51S 147.17E 203–4 5.4,5.0
GCMT I 26 08 01 30.9–.20 5.55S 147.18E 209–1 5.3W,5.0
NEIC I 26 08 01 30.9–.49 5.48S 147.13E 221–4 5.2b,5.0
ISC Event type se.
MOS Error ellipse: s-maj=9.2km s-min=5.3km az=98.7.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.6km az=145.4.
IDC Error ellipse: s-maj=8.9km s-min=5.8km az=92.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c94; s106,c164; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94±.02 $M_{\theta\theta}$-0.55±.02; $M_{\phi\phi}$-0.39±.03; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$0.45±.02; $M_{\phi r}$-0.29±.02; Best double couple: NP1:ϕ_s133.00000°,δ56.00000°,λ93.00000°. NP2:ϕ_s307.00000°,δ34.00000°,λ85.00000°. Principal axes: T 1.0220,Plg79.0000°,Azm56.0000°; N -0.0180,Plg3.0000°,Azm311.0000°; P -1.0040,Plg11.0000°,Azm221.0000° $M_0$1.01300×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=82.0.
IDC I 27 02 32 01.9–2.7 4.84S 146.18E 0 3.7,3.5
¶17191074

IDC Error ellipse: s-maj=65.8km s-min=30.6km az=88.0.
ISC I 29 23 38 42.2–.43 7.88S–.04 147.74E–.07 52 4.7b,3.6s 98 2-153
BJI I 29 23 38 39.9 7.55S 148.17E 49 5.0b,5.0s **¶15981229**
ISCJB I 29 23 38 40.7–.30 7.82S–.03 147.70E–.05 52 4.7b,3.8s
NEIC I 29 23 38 42.5–.67 7.80S 147.76E 57–6 4.7b,3.8s
DJA I 29 23 38 43.8–2.0 8S–11 148E–12 53–12 5.3,5.1b
IDC I 29 23 38 45.9–1.4 7.89S 147.71E 91–11 4.3,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=8.8.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=94.0. Felt at Port Moresby.
IDC Error ellipse: s-maj=25.9km s-min=12.2km az=104.0.
ISC I 31 18 23 41.9–1.2 10.0S–.10 151.0E–.20 35 3.7b 11 4-150
IDC I 31 18 23 36.2–1.4 10.01S 151.12E 0 3.9,3.7 **¶17191426**
ISCJB I 31 18 23 40.0–.00 10.1S–.10 151.0E–.20 33 3.9s,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC I 31 19 22 35.8–4.7 5.96S 145.79E 129–54 3.3,3.1
¶17191429

IDC Error ellipse: s-maj=46.4km s-min=33.4km az=141.0.
ISC II 01 01 50 51.5–.90 5.64S–.08 147.0E–.10 195 3.9b 18 4-145
IDC II 01 01 50 49.9–1.8 5.49S 147.11E 174–15 4.4,4.1 **¶17191448**
ISCJB II 01 01 50 50.7–.77 5.47S–.07 147.03E–.08 195 3.8b,4.1
DJA II 01 01 50 54.2–1.7 6S–14 147E–19 138–12 4.9b,4.9
ISC Event type ke.
ISCJB Event type ke.
IDC II 01 13 35 25.7–2.0 5.72S 146.47E 150–27 3.9s,3.9
¶17191483

IDC Error ellipse: s-maj=46.1km s-min=16.7km az=88.0.
IDC II 02 12 29 10.1–2.3 5.72S 147.08E 0 3.5,3.2
¶17191543

IDC Error ellipse: s-maj=171.0km s-min=29.1km az=122.0.
IDC II 02 14 43 04.8–6.7 5.18S 146.95E 176–73 3.9,3.6
¶17191548

IDC Error ellipse: s-maj=110.5km s-min=26.0km az=137.0.
IDC II 03 22 58 03.5–7.8 10.83S 148.93E 0 3.6,3.6b
¶17191625

IDC Error ellipse: s-maj=229.1km s-min=43.3km az=115.0.
IDC II 04 17 17 29.9–4.5 6.44S 146.14E 199–72 3.7,3.6
¶17191681

IDC Error ellipse: s-maj=107.1km s-min=30.7km az=121.0.
IDC II 06 00 02 44.3–3.1 5.54S 147.63E 197–46 3.5,3.1
¶17191763

IDC Error ellipse: s-maj=88.2km s-min=24.4km az=112.0.
IDC II 06 21 14 15.1–2.5 5.53S 146.99E 200–49 3.7,3.4
¶17191831

IDC Error ellipse: s-maj=90.3km s-min=15.9km az=111.0.
IDC II 08 01 28 58.7–1.4 5.35S 146.24E 0 3.6,3.4
¶17191883

IDC Error ellipse: s-maj=46.3km s-min=23.7km az=108.0.
ISC II 09 01 34 50.1–.71 5.57S–.07 146.2E–.10 69 4.1b 28 4-151
ISCJB II 09 01 34 48.5–.56 5.56S–.05 146.18E–.09 69 4.1b **¶16160379**
IDC II 09 01 34 49.9–3.7 5.54S 146.23E 67–38 4.1,4.0
NEIC II 09 01 34 50.4–1.7 5.52S 146.15E 71–15 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=6.8km az=167.8.
IDC Error ellipse: s-maj=26.9km s-min=22.0km az=97.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=10.7km az=56.0.
ISC II 09 17 47 16.1–1.1 5.6S–.10 146.5E–.20 123 3.1b 8 4-145
IDC II 09 17 47 12.0–6.3 5.44S 146.48E 78–66 3.2,3.1 **¶17191953**
ISCJB II 09 17 47 14.8–1.1 5.64S–.09 146.5E–.20 123 3.0b,3.1
ISC Event type ke.
ISCJB Event type ke.

IDC II 10 17 11 41.1–3.3 6.24S 147.68E 0 3.7,3.7b
¶17192025

IDC Error ellipse: s-maj=69.9km s-min=34.8km az=92.0.
ISC II 11 05 37 11.9–1.2 5.5S–.10 147.1E–.20 195 3.8b 9 4-85
ISCJB II 11 05 37 10.3–1.1 5.42S–.08 147.3E–.20 195 3.8b **¶17192051**
IDC II 11 05 37 12.5–1.8 5.55S 147.21E 202–21 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=11.3km az=9.1.
IDC Error ellipse: s-maj=42.3km s-min=13.5km az=115.0.
IDC II 11 08 14 37.7–3.0 6.37S 147.88E 0 3.8,3.7L
¶17192061

IDC Error ellipse: s-maj=88.8km s-min=28.2km az=102.0.
ISC II 11 08 57 35.6–1.2 6.5S–.10 146.3E–.20 110 3.8b 9 3-86
ISCJB II 11 08 57 34.5–1.1 6.48S–.10 146.2E–.20 110 3.6b **¶17192063**
IDC II 11 08 57 35.0–4.4 6.45S 146.33E 105–46 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.9km s-min=11.7km az=159.4.
IDC Error ellipse: s-maj=43.0km s-min=25.0km az=132.0.
ISC II 11 12 53 32.2–.45 5.51S–.05 147.43E–.06 170 4.3b 71 3-152
ISCJB II 11 12 53 30.7–.38 5.41S–.03 147.52E–.05 170 4.2b **¶16022183**
NEIC II 11 12 53 34.4–.50 5.46S 147.48E 196–5 4.6b
BJI II 11 12 53 34.3 5.54S 147.20E 193 4.9b,4.4b
IDC II 11 12 53 34.2–1.4 5.51S 147.40E 194–12 4.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=6.5.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.2km az=97.0.
IDC Error ellipse: s-maj=12.7km s-min=9.2km az=95.0.
IDC II 13 14 58 45.5–5.7 7.64S 148.38E 0 3.8,3.7
¶17192158

IDC Error ellipse: s-maj=92.9km s-min=59.3km az=160.0.
ISC II 17 15 32 54.7–.89 5.33S–.09 146.0E–.10 35 4.2b 17 4-144
IDC II 17 15 32 49.0–.96 5.20S 145.97E 0 4.3L,4.2 **¶16358615**
ISCJB II 17 15 32 53.1–.86 5.36S–.07 146.0E–.10 35 3.9b,3.1s
NEIC II 17 15 32 54.7–.89 5.22S 145.92E 35 4.2b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=37.0km s-min=20.1km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=9.5km az=167.6.
NEIC Event type se. Error ellipse: s-maj=25.4km s-min=12.6km az=88.0.
IDC II 20 21 40 57.7–3.7 6.51S 147.84E 0 3.4,3.3
¶17192606

IDC Error ellipse: s-maj=140.2km s-min=45.7km az=115.0.
ISC II 20 23 23 03.8–.71 5.59S–.07 146.1E–.10 69 4.3b 18 4-151
ISCJB II 20 23 23 02.2–.60 5.62S–.05 146.0E–.10 69 4.0b **¶16363004**
IDC II 20 23 23 07.2–7.0 5.78S 146.18E 109–67 4.1s,4.1
NEIC II 20 23 23 08.3–1.3 5.78S 146.16E 122–14 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=6.6km az=178.6.
IDC Error ellipse: s-maj=62.8km s-min=29.0km az=145.0.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=9.6km az=116.0.
ISC II 21 08 39 39.8–.69 8.28S–.07 149.11E–.09 35 4.1b,3.6s 31 2-151
ISCJB II 21 08 39 38.2–.46 8.26S–.05 149.06E–.06 33 4.2b,3.6s **¶16398653**
NEIC II 21 08 39 43.2–1.5 8.38S 149.02E 68–14 4.3b,3.6s
IDC II 21 08 39 43.8–2.5 8.42S 148.95E 73–22 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.2km az=20.8.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.1km az=54.0.
IDC Error ellipse: s-maj=20.2km s-min=15.8km az=71.0.
IDC II 21 09 07 53.1–2.5 5.63S 145.93E 0 3.3,3.2
¶17192625

IDC Error ellipse: s-maj=67.5km s-min=32.4km az=84.0.
IDC II 22 06 55 28.9–2.7 7.69S 148.52E 0 3.8,3.7
¶17192682

IDC Error ellipse: s-maj=78.1km s-min=38.8km az=113.0.
IDC II 22 15 54 01.3–3.3 6.14S 146.66E 0 3.8,3.8L
¶17192713

IDC Error ellipse: s-maj=60.7km s-min=46.2km az=100.0.
ISC II 25 23 08 22.9–.94 5.69S–.08 147.8E–.20 150 4.2b 16 4-146
ISCJB II 25 23 08 21.1–.87 5.62S–.07 147.8E–.10 150 4.2b **¶16363027**
NEIC II 25 23 08 22.5–1.5 5.64S 147.80E 146–14 4.2b
IDC II 25 23 08 24.5–5.6 5.91S 147.92E 158–52 4.4,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.6km s-min=10.5km az=1.9.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=12.1km az=121.0.
IDC Error ellipse: s-maj=85.7km s-min=46.3km az=127.0.
ISC II 26 04 54 11.6–.82 6.01S–.07 146.8E–.20 78 3.6b 16 3-154
IDC II 26 04 54 08.2–2.6 5.86S 146.83E 43–26 3.8,3.8 **¶17192884**
ISCJB II 26 04 54 09.6–.80 5.98S–.06 146.9E–.10 78 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 27 17 01 48.9–1.1 5.78S–.09 146.8E–.30 78 3.1b 8 4-145
ISCJB II 27 17 01 47.3–1.1 5.81S–.08 146.8E–.20 78 3.0b **¶17192962**
IDC II 27 17 01 54.1–3.4 6.17S 147.23E 144–41 3.2,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.5km s-min=10.9km az=174.7.
IDC Error ellipse: s-maj=56.9km s-min=29.1km az=120.0.
IDC II 27 17 22 05.7–1.6 6.05S 146.63E 0 3.8,3.6
¶17192963

IDC Error ellipse: s-maj=43.9km s-min=24.2km az=90.0.
IDC II 28 21 00 23.3–2.6 5.59S 147.61E 189–38 3.9,3.6
¶17193018

IDC Error ellipse: s-maj=78.2km s-min=24.4km az=111.0.
IDC III 01 04 04 58.9–1.6 5.42S 147.04E 0 4.0,3.8
¶17193037

IDC Error ellipse: s-maj=63.5km s-min=25.9km az=119.0.
ISC III 02 05 41 17.2–2.3 6.8S–.10 147.8E–.40 54 3.5b 8 3-146
ISCJB III 02 05 41 15.4–2.1 6.80S–.10 147.8E–.30 54 4.2s,3.6b **¶17193109**
IDC III 02 05 41 19.6–4.5 6.98S 147.85E 73–38 4.1,4.1s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.9km s-min=13.6km az=2.0.
IDC Error ellipse: s-maj=57.9km s-min=33.3km az=101.0.
IDC III 03 10 09 58.6–2.4 8.32S 150.41E 0 3.9,3.8b
¶17193181

IDC Error ellipse: s-maj=50.4km s-min=38.1km az=151.0.
IDC III 03 13 29 18.9–7.4 5.31S 145.42E 86–92 3.4,3.2
¶17193190

IDC Error ellipse: s-maj=69.6km s-min=41.1km az=112.0.
IDC III 03 14 44 06.7–5.2 5.45S 146.65E 85–51 4.1L,3.8
¶17193193

IDC Error ellipse: s-maj=49.0km s-min=28.9km az=120.0.
ISC III 05 15 06 07.8–1.0 6.64S–.08 147.8E–.20 51 4.4b 25 3-153
IDC III 05 15 06 00.7–1.1 6.57S 147.83E 0 4.2,4.1L **¶16303220**
ISCJB III 05 15 06 06.6–.88 6.66S–.05 147.7E–.20 51 4.0b,4.1L
ISC Event type ke.
ISCJB Event type ke.
IDC III 05 22 38 31.0–1.9 5.69S 147.51E 220–26 3.6,3.3
¶17193309

IDC Error ellipse: s-maj=53.0km s-min=14.6km az=117.0.
IDC III 08 00 53 58.1–3.3 6.14S 147.01E 193–54 3.5s,3.5
¶17193443

IDC Error ellipse: s-maj=92.5km s-min=29.4km az=116.0.
IDC III 10 13 14 22.8–7.2 6.23S 147.33E 102–68 3.7,3.6
¶17193628

IDC Error ellipse: s-maj=78.5km s-min=52.5km az=126.0.
IDC III 10 13 51 51.6–7.0 6.18S 146.27E 138–65 3.4,3.1
¶17193631

IDC Error ellipse: s-maj=74.3km s-min=55.5km az=131.0.
ISC III 11 13 38 15.5–1.4 5.2S–.20 147.9E–.20 200 4.1b 11 4-146
ISCJB III 11 13 38 14.4–1.3 5.2S–.10 147.9E–.10 200 4.3b **¶17193885**
IDC III 11 13 38 18.8–3.4 5.53S 148.10E 225–23 4.7,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=15.7km az=136.6.

IDC Error ellipse: s-maj=36.0km s-min=24.7km az=169.0.
IDC III 13 11 08 30.4–6.6 6.55S 147.92E 108–58 3.9s,3.9
¶17194840

IDC Error ellipse: s-maj=107.0km s-min=53.9km az=117.0.
IDC III 13 15 36 37.5–5.5 6.14S 147.72E 0 4.2,4.2b
¶17194906

IDC Error ellipse: s-maj=84.8km s-min=45.4km az=62.0.
IDC III 14 02 56 45.6–4.8 6.48S 147.29E 53–39 3.9,3.9L
¶17195052

IDC Error ellipse: s-maj=61.1km s-min=27.8km az=80.0.
ISC III 14 09 01 17.9–.69 6.47S–.08 146.2E–.20 122 3.9b 17 3-144
ISCJB III 14 09 01 16.2–.56 6.47S–.06 146.1E–.10 122 3.9b **¶16477795**
IDC III 14 09 01 17.4–2.2 6.48S 146.23E 120–23 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=7.9km az=167.8.
IDC Error ellipse: s-maj=28.3km s-min=16.6km az=94.0.
ISC III 16 01 52 02.7–1.3 5.6S–.10 146.8E–.20 35 4.0b,3.2s 17 4-154
NEIC III 16 01 52 02.7–3.8 5.48S 146.69E 43–26 4.2b,3.2s **¶16424538**
ISCJB III 16 01 52 02.2–2.2 5.7S–.10 146.7E–.20 35 4.0b,3.2s
IDC III 16 01 52 03.7–3.7 5.71S 146.93E 42–29 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=34.7km s-min=18.2km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=32.3km s-min=14.7km az=148.1.
IDC Error ellipse: s-maj=33.0km s-min=18.4km az=122.0.
ISC III 16 20 46 27.2–1.1 5.37S–.09 147.2E–.20 100 3.8b 11 4-85
ISCJB III 16 20 46 25.7–1.1 5.39S–.08 147.2E–.20 100 3.9b **¶17196532**
IDC III 16 20 46 28.6–2.5 5.50S 147.16E 120–21 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=10.3km az=169.3.
IDC Error ellipse: s-maj=29.2km s-min=17.8km az=76.0.
ISC III 18 15 29 25.6–1.3 5.3S–.10 147.3E–.30 170 3.4b 8 4-145
ISCJB III 18 15 29 24.7–1.3 5.27S–.09 147.2E–.20 170 3.4b **¶17197044**
IDC III 18 15 29 27.3–3.6 5.46S 147.45E 192–41 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.8km s-min=12.4km az=179.3.
IDC Error ellipse: s-maj=59.6km s-min=23.8km az=132.0.
IDC III 19 08 31 06.5–10 5.46S 146.21E 0 3.8,3.7
¶17197162

IDC Error ellipse: s-maj=147.2km s-min=64.4km az=17.0.
IDC III 22 03 39 10.5–7.9 5.96S 145.89E 153–47 3.8,3.4
¶17197911

IDC Error ellipse: s-maj=86.9km s-min=56.2km az=37.0.
IDC III 23 20 24 54.2–6.5 6.80S 147.21E 72–63 3.7,3.7L
¶17198247

IDC Error ellipse: s-maj=67.8km s-min=42.8km az=125.0.
IDC III 24 06 07 11.8–3.1 5.74S 147.52E 179–39 3.5,3.4
¶17198296

IDC Error ellipse: s-maj=56.4km s-min=23.2km az=127.0.
IDC III 26 16 05 46.0–4.4 5.48S 147.04E 0 4.1,4.1s
¶17198654

IDC Error ellipse: s-maj=162.1km s-min=45.8km az=109.0.
ISC III 26 22 56 32.5–.89 5.66S–.08 147.4E–.10 170 4.0b 18 4-154
IDC III 26 22 56 29.7–1.5 5.56S 147.50E 144–13 4.3,4.1 **¶16481085**
NEIC III 26 22 56 30.4–1.2 5.50S 147.47E 149–10 4.3b,4.1
ISCJB III 26 22 56 31.2–.77 5.59S–.08 147.4E–.10 170 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 27 02 53 42.9–7.4 6.85S 147.55E 88–66 3.5,3.4
¶17198716

IDC Error ellipse: s-maj=100.3km s-min=58.5km az=141.0.
IDC III 27 22 12 15.5–3.5 5.47S 147.03E 188–65 3.5,3.4
¶17198857

IDC Error ellipse: s-maj=119.2km s-min=27.7km az=109.0.
ISC III 28 15 02 54.7–1.3 6.2S–.10 146.7E–.20 52 3.6b 8 3-145
IDC III 28 15 02 47.7–1.3 6.01S 146.69E 0 3.9,3.7 **¶17198963**
ISCJB III 28 15 02 52.9–1.2 6.2S–.10 146.7E–.20 52 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 20 00 15.3–7.8 5.99S 146.80E 167–84 3.2,2.9
¶17199344

IDC Error ellipse: s-maj=116.4km s-min=30.6km az=134.0.
ISC IV 01 07 43 18.0–1.0 4.78S–.09 146.0E–.10 27 3.9b 9 5-85
IDC IV 01 07 43 36.1–1.2 5.11S 145.82E 204–11 3.9,3.6 **¶17199394**
ISC Event type ke.
IDC Error ellipse: s-maj=16.0km s-min=10.5km az=82.0.
IDC IV 02 10 07 23.5–5.4 6.73S 147.44E 80–57 3.5s,3.5L
¶17199514

IDC Error ellipse: s-maj=65.4km s-min=35.2km az=125.0.
ISC IV 02 15 24 49.0–1.3 9.8S–.20 150.8E–.20 35 3.7b 10 4-150
IDC IV 02 15 24 43.3–1.4 9.77S 150.98E 0 3.8,3.6 **¶17199543**
ISCJB IV 02 15 24 47.4–1.1 9.8S–.10 150.8E–.20 33 3.6b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 05 01 14 31.3–5.4 5.93S 145.87E 155–61 3.4,3.1
¶17199829

IDC Error ellipse: s-maj=61.6km s-min=29.7km az=134.0.
ISC IV 05 03 14 36.1–.68 5.79S–.07 146.2E–.10 32 4.0b 20 4-151
IDC IV 05 03 14 45.1–1.6 5.88S 145.89E 114–16 3.9,3.7 **¶17199838**
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=11.5km az=59.0.
ISC IV 05 04 48 36.3–1.0 5.34S–.10 147.3E–.20 170 3.4b 9 4-145
ISCJB IV 05 04 48 35.3–.96 5.35S–.08 147.2E–.20 170 3.5b **¶17199849**
IDC IV 05 04 48 37.5–3.7 5.51S 147.44E 187–42 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.7km s-min=11.3km az=4.4.
IDC Error ellipse: s-maj=58.1km s-min=23.1km az=134.0.
ISC IV 05 21 03 06.8–1.1 9.7S–.20 151.0E–.10 13 3.8b 11 4-150
IDC IV 05 21 03 04.8–1.4 9.70S 150.98E 0 3.9,3.8 **¶17199928**
ISCJB IV 05 21 03 06.0–1.1 9.7S–.10 150.8E–.20 13 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 22 15 58.3–.43 5.98S–.05 146.38E–.07 100 4.7b 123 3-154
ISCJB IV 05 22 15 56.4–.30 5.96S–.03 146.48E–.05 100 4.7b **¶16455858**
IDC IV 05 22 15 58.0–1.4 5.99S 146.33E 96–13 4.5,4.2
DJA IV 05 22 15 59.5–1.0 6S–7.0 146E–9.0 70–7 6.1,5.4b
NEIC IV 05 22 16 00.4–.80 5.99S 146.31E 119–7 4.2b,5.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.7km az=167.4.
IDC Error ellipse: s-maj=17.3km s-min=8.2km az=92.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.6km az=86.0.
IDC IV 06 15 09 44.9–6.0 6.53S 146.78E 62–63 3.3,3.3
¶17200018

IDC Error ellipse: s-maj=67.1km s-min=42.0km az=86.0.
ISC IV 08 17 05 57.6–.37 5.58S–.05 147.19E–.06 195 4.5b 98 4-154
ISCJB IV 08 17 05 56.4–.27 5.47S–.03 147.23E–.04 195 4.5b **¶16577759**
IDC IV 08 17 05 56.9–1.3 5.52S 147.26E 188–11 4.5,4.2
NEIC IV 08 17 05 58.0–.57 5.53S 147.23E 201–5 4.8b,4.2
DJA IV 08 17 05 58.1–1.0 5S–6.0 147E–9.0 183–7 4.9,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 09 20 52 23.5–1.2 5.8S–.10 146.8E–.20 78 3.6b 9 4-145
ISCJB IV 09 20 52 22.1–1.2 5.80S–.09 146.8E–.10 78 3.5b **¶17200374**
IDC IV 09 20 52 23.2–6.1 5.80S 146.82E 75–57 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=13.0km az=9.7.
IDC Error ellipse: s-maj=58.2km s-min=26.7km az=131.0.
IDC IV 12 15 16 57.7–6.4 5.20S 147.40E 140–67 3.9s,3.9
¶17200784

IDC Error ellipse: s-maj=101.1km s-min=27.0km az=137.0.
ISC IV 15 22 50 22.8–1.1 5.8S–.10 146.3E–.20 100 3.6b 10 4-151
ISCJB IV 15 22 50 22.4–.95 5.88S–.08 146.4E–.20 100 3.5b **¶17201176**
IDC IV 15 22 50 24.1–3.9 5.92S 146.50E 104–41 4.2s,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.9km s-min=9.8km az=165.4.
IDC Error ellipse: s-maj=34.3km s-min=27.0km az=133.0.
ISC IV 17 03 39 07.2–1.3 6.4S–.10 146.8E–.20 78 3.7b 8 3-145
IDC IV 17 03 38 58.0–1.5 6.14S 146.77E 0 3.9,3.7 **¶17201277**
ISCJB IV 17 03 39 05.9–1.3 6.35S–.09 146.8E–.20 78 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 19 02 16 09.9–.53 5.95S–.05 147.15E–.07 78 4.5b 65 3-139
ISCJB IV 19 02 16 08.1–.37 5.90S–.04 147.15E–.06 78 4.5b **¶16449042**
DJA IV 19 02 16 11.3–1.1 6S–7.0 147E–12 110–7 5.5b,5.4b
BJI IV 19 02 16 11.6 6.38S 146.36E 100 4.8b,4.7b
IDC IV 19 02 16 11.2–1.8 5.83S 147.04E 94–14 4.3,4.2
NEIC IV 19 02 16 12.1–1.0 5.85S 147.02E 103–9 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=174.1.
IDC Error ellipse: s-maj=17.9km s-min=13.9km az=109.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=94.0.
ISC IV 19 17 07 52.8–1.1 6.3S–.10 147.5E–.10 35 4.0b 15 3-146
IDC IV 19 17 07 45.7–3.3 6.37S 148.02E 0 4.0,3.9 **¶16587537**
ISCJB IV 19 17 07 50.5–.95 6.26S–.09 147.5E–.10 35 4.1b,3.9
NEIC IV 19 17 07 52.9–1.3 6.40S 147.59E 39–12 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=76.7km s-min=34.0km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=11.1km az=30.9.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=10.1km az=138.0.
ISC IV 19 17 32 17.3–2.7 6.9S–.20 147.0E–.40 10 7 3-145
IDC IV 19 17 32 14.1–2.5 6.77S 147.27E 0 3.7,3.6 **¶17201527**
ISC Event type ke.
IDC Error ellipse: s-maj=51.6km s-min=35.5km az=91.0.
ISC IV 19 20 53 59.7–.58 6.79S–.06 147.72E–.10 65 4.1b 46 3-153
IDC IV 19 20 53 51.2–.98 6.70S 147.88E 0 4.2,4.0 **¶16591752**
ISCJB IV 19 20 53 57.5–.44 6.78S–.05 147.77E–.08 65 4.1b,4.0
NEIC IV 19 20 53 59.1–.91 6.78S 147.77E 61–9 4.4b,4.0
BJI IV 19 20 54 00.0 7.21S 147.23E 75 4.8b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=15.9km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=6.3km az=14.4.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=6.8km az=107.0.
IDC IV 19 21 22 26.3–2.6 6.34S 147.76E 0 3.9,3.8b
¶17201543

IDC Error ellipse: s-maj=57.5km s-min=31.9km az=92.0.
ISC IV 19 21 44 39.8–1.1 6.3S–.10 147.8E–.30 51 3.8b 13 3-146
IDC IV 19 21 44 33.0–1.1 6.34S 147.89E 0 4.1,3.9L **¶16631141**
ISCJB IV 19 21 44 38.5–.97 6.5S–.10 147.7E–.20 51 3.8b,3.1s
NEIC IV 19 21 44 38.5–.83 6.38S 147.78E 35 4.0b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=42.0km s-min=19.8km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=29.2km s-min=13.8km az=15.3.
NEIC Event type se. Error ellipse: s-maj=27.7km s-min=12.5km az=104.0.
ISC IV 19 21 53 19.3–1.5 6.3S–.10 147.9E–.40 51 3.5b 8 3-146
IDC IV 19 21 53 12.3–1.6 6.36S 148.10E 0 3.9,3.7 **¶17201547**
ISCJB IV 19 21 53 18.0–1.3 6.27S–.09 147.8E–.30 51 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 19 22 04 55.9–3.1 6.36S 147.33E 0 4.0,3.8
¶17201550

IDC Error ellipse: s-maj=60.1km s-min=34.0km az=86.0.
IDC IV 19 22 06 47.8–3.1 6.37S 147.66E 0 3.7,3.6b
¶17201551

IDC Error ellipse: s-maj=73.6km s-min=33.1km az=95.0.
IDC IV 19 22 20 16.7–3.0 6.42S 147.58E 0 3.6,3.5b
¶17201553

IDC Error ellipse: s-maj=68.1km s-min=32.8km az=94.0.
IDC IV 19 22 21 47.1–3.1 6.30S 147.60E 0 3.8,3.6
¶17201554

IDC Error ellipse: s-maj=68.1km s-min=33.3km az=93.0.
IDC IV 19 22 29 25.9–3.4 6.29S 147.79E 0 3.4,3.4b
¶17201556

IDC Error ellipse: s-maj=82.1km s-min=33.9km az=96.0.
IDC IV 20 08 50 50.3–3.1 6.35S 147.39E 0 3.6,3.6s
¶17201604

IDC Error ellipse: s-maj=68.0km s-min=33.2km az=90.0.
IDC IV 20 09 20 12.8–6.5 7.26S 148.41E 101–46 3.5,3.3
¶17201608

IDC Error ellipse: s-maj=123.4km s-min=65.2km az=118.0.
ISC IV 20 15 55 36.4–1.0 6.5S–.10 147.9E–.20 51 3.8b 15 3-146
IDC IV 20 15 55 29.1–1.1 6.50S 148.13E 0 4.1,3.9 **¶16536022**
NEIC IV 20 15 55 33.9–7.9 6.50S 147.95E 28–53 4.1b,3.9
ISCJB IV 20 15 55 34.5–1.1 6.6S–.10 147.9E–.20 51 3.8b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 21 12 21 31.8–1.5 5.60S 145.78E 0 4.0,3.9
¶17201712

IDC Error ellipse: s-maj=41.8km s-min=24.0km az=116.0.
IDC IV 25 01 54 23.3–5.4 6.45S 146.69E 142–40 3.5,3.2
¶17202001

IDC Error ellipse: s-maj=52.4km s-min=48.6km az=171.0.
ISC IV 26 22 05 06.3–1.0 9.8S–.10 150.0E–.20 28 4.0b 12 3-149
IDC IV 26 22 05 01.8–.93 9.78S 150.06E 0 4.1,4.0 **¶17202189**
ISCJB IV 26 22 05 04.4–.92 9.8S–.10 150.0E–.10 28 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC IV 27 12 01 10.8–3.3 7.02S 148.72E 0 3.8,3.5
¶17202233

IDC Error ellipse: s-maj=118.2km s-min=44.2km az=118.0.
ISC IV 28 02 59 29.4–.96 5.43S–.09 147.4E–.20 170 3.8b 14 4-145
ISCJB IV 28 02 59 27.6–.84 5.39S–.07 147.6E–.20 170 3.7b **¶17202274**
IDC IV 28 02 59 31.5–2.0 5.48S 147.40E 190–19 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.5km s-min=9.2km az=9.8.
IDC Error ellipse: s-maj=28.3km s-min=12.0km az=109.0.
IDC IV 28 18 42 41.7–1.5 6.33S 147.13E 0 3.4,3.3
¶17202323

IDC Error ellipse: s-maj=60.6km s-min=24.0km az=105.0.
IDC IV 29 18 15 30.3–7.5 6.23S 146.38E 0 3.6,3.4
¶17202403

IDC Error ellipse: s-maj=110.2km s-min=37.5km az=38.0.
ISC IV 29 19 30 09.1–1.7 6.4S–.10 147.5E–.40 63 3.5b 9 3-146
IDC IV 29 19 30 06.9–5.5 6.32S 147.54E 42–43 3.7,3.7 **¶17202410**
ISCJB IV 29 19 30 07.2–1.6 6.37S–.09 147.5E–.30 63 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 01 06 25.6–.49 6.08S–.06 146.63E–.07 100 4.2b 52 3-152
ISCJB IV 30 01 06 23.7–.40 6.03S–.04 146.69E–.06 100 4.2b **¶16577919**
IDC IV 30 01 06 24.9–1.7 6.00S 146.69E 95–15 4.2,4.0
NEIC IV 30 01 06 26.4–1.1 6.00S 146.64E 109–10 4.4b,4.0
DJA IV 30 01 06 29.8–.80 6S–5.0 146E–9.0 88–11 5.2b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 30 09 03 40.8–.40 5.34S–.05 146.43E–.07 200 4.4b 77 3-147
DJA IV 30 09 03 35.6–2.2 5S–16 147E–26 176–15 5.3b,5.3 **¶16485266**
IDC IV 30 09 03 38.5–1.6 5.31S 146.42E 174–15 4.6,4.3
ISCJB IV 30 09 03 39.7–.24 5.29S–.04 146.39E–.05 200 4.3b,4.3
NEIC IV 30 09 03 39.1–.53 5.27S 146.45E 180–5 4.7b,4.3
ISC Event type se.

IDC Error ellipse: s-maj=13.7km s-min=8.0km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=12.8.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=107.0.
IDC V 01 14 49 59.8–6.1 6.94S 147.75E 78–45 3.8,3.7
¶17202526

IDC Error ellipse: s-maj=55.1km s-min=55.0km az=110.0.
IDC V 03 05 15 54.3–2.5 5.42S 146.69E 0 3.7,3.5
¶17202657

IDC Error ellipse: s-maj=63.0km s-min=27.7km az=93.0.
IDC V 04 11 01 06.0–2.8 6.55S 147.73E 0 4.0,3.9
¶17202746

IDC Error ellipse: s-maj=58.6km s-min=38.1km az=93.0.
IDC V 04 19 32 06.9–2.9 5.34S 147.21E 142–28 3.8,3.5
¶17202789

IDC Error ellipse: s-maj=68.7km s-min=24.1km az=95.0.
ISC V 07 06 06 53.1–.34 6.21S–.04 146.62E–.06 10 4.8b,3.7s 132 3-153
ISCJB V 07 06 06 51.9–.20 6.23S–.03 146.65E–.04 10 4.8b,3.7s **¶16578050**
IDC V 07 06 06 51.2–.54 6.19S 146.69E 0 4.6,4.5
NEIC V 07 06 07 00.4–.64 6.34S 146.54E 66–6 4.8b,4.5
DJA V 07 06 07 04.7–.90 7S–8.0 147E–9.0 10 5.3b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 08 07 28 11.5–3.2 6.42S 147.84E 0 3.9,3.8
¶17203032

IDC Error ellipse: s-maj=70.7km s-min=33.7km az=97.0.
IDC V 09 03 20 36.4–3.0 5.78S 147.78E 198–40 4.0,3.6
¶17203101

IDC Error ellipse: s-maj=84.1km s-min=29.2km az=116.0.
IDC V 10 21 43 08.8–3.7 5.76S 147.87E 228–39 4.0,3.6
¶17203325

IDC Error ellipse: s-maj=78.5km s-min=27.0km az=133.0.
ISC V 11 15 21 27.0–.25 6.52S–.04 147.87E–.05 51 4.9b,4.4s 309 3-153
IDC V 11 15 21 20.2–.38 6.51S 147.83E 0 4.9,4.9b **¶16505629**
MOS V 11 15 21 23.8–1.1 6.49S 147.80E 37 5.1b,4.9b
ISCJB V 11 15 21 24.9–.17 6.56S–.02 147.86E–.03 51 4.9b,4.4s
GCMT V 11 15 21 26.1–.30 6.60S 148.08E 27–1 5.0W,4.4s
NEIC V 11 15 21 26.1–.60 6.52S 147.80E 44–5 5.0b,4.4s
BJI V 11 15 21 26.4 6.24S 147.77E 46 5.0b,4.8s
DJA V 11 15 21 29.8–.60 7S–4.0 148E–5.0 51–7 5.2b,5.0
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c45; s55,c67;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.95±.19 $M_{\theta\theta}$-0.57±.12; $M_{\phi\phi}$-1.38±.15; $M_{r\theta}$-1.93±.29; $M_{\theta\phi}$2.03±.09; $M_{\phi r}$1.03±.27; Best double couple: NP1:ϕ_s301.00000°,δ68.00000°,λ68.00000°. NP2:ϕ_s167.00000°,δ31.00000°,λ132.00000°. Principal axes: T 2.9950,Plg61.0000°,Azm178.0000°; N 0.7790,Plg20.0000°,Azm309.0000° ; P -3.7780,Plg20.0000°,Azm47.0000° $M_0$3.38700×10^{16}
NEIC Event type se.
ISC V 11 15 23 53.7–2.2 6.3S–.10 147.5E–.40 35 3.8b 10 3-146
IDC V 11 15 23 47.1–2.9 6.41S 147.89E 0 4.0,3.9 **¶16577274**
ISCJB V 11 15 23 52.4–2.3 6.34S–.10 147.4E–.30 35 3.7b,3.9
NEIC V 11 15 23 54.0–1.4 6.40S 147.52E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=84.0km s-min=24.9km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=42.6km s-min=13.2km az=172.2.
NEIC Event type se. Error ellipse: s-maj=36.1km s-min=15.9km az=97.0.
ISC V 11 15 33 09.7–.26 6.53S–.04 147.93E–.04 51 4.9b,4.6s 316 3-153
MOS V 11 15 33 06.5–1.3 6.46S 147.89E 33 5.1b,4.6s **¶16560032**
ISCJB V 11 15 33 07.7–.18 6.56S–.02 147.91E–.03 51 4.9b,4.6s
GCMT V 11 15 33 09.6–.20 6.54S 147.98E 24–1 5.0W,4.6s
NEIC V 11 15 33 09.6–.50 6.52S 147.87E 51–4 4.9b,4.6s
IDC V 11 15 33 10.3–2.0 6.56S 147.79E 55–18 4.8,4.7
DJA V 11 15 33 13.8–.60 7S–4.0 148E–5.0 67–7 5.3b,5.3
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c36; s85,c126;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.41±.18 $M_{\theta\theta}$0.29±.12; $M_{\phi\phi}$0.12±.14; $M_{r\theta}$-1.46±.21; $M_{\theta\phi}$3.35±.10; $M_{\phi r}$0.91±.19; Best double couple: NP1:ϕ_s88.00000°,δ77.00000°,λ-23.00000°. NP2:ϕ_s184.00000°,δ67.00000°,λ-166.00000°. Principal axes: T 3.6030,Plg7.0000°,Azm137.0000°; N 0.3360,Plg64.0000°,Azm241.0000° ; P -3.9390,Plg25.0000°,Azm44.0000° $M_0$3.77100×10^{16}
NEIC Event type se.
ISC V 11 15 43 12.6–1.3 6.3S–.10 147.8E–.30 51 3.9b 11 3-146
IDC V 11 15 43 05.8–1.7 6.38S 147.93E 0 4.1,3.9 **¶16577278**
ISCJB V 11 15 43 10.9–1.2 6.5S–.10 147.9E–.30 51 4.0b,3.9
NEIC V 11 15 43 11.2–1.1 6.39S 147.85E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=68.5km s-min=22.9km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=40.2km s-min=13.7km az=18.1.
NEIC Event type se. Error ellipse: s-maj=39.1km s-min=13.2km az=108.0.
IDC V 11 15 46 29.8–7.0 7.21S 148.44E 96–49 3.6,3.4
¶17203406

IDC Error ellipse: s-maj=129.2km s-min=69.9km az=118.0.
IDC V 11 15 53 38.3–6.3 7.17S 148.12E 103–49 3.6,3.5
¶17203407

IDC Error ellipse: s-maj=93.4km s-min=61.1km az=133.0.
IDC V 11 16 12 11.7–3.2 6.41S 147.94E 0 3.6,3.5b
¶17203410

IDC Error ellipse: s-maj=79.2km s-min=33.4km az=99.0.
IDC V 11 18 38 34.8–3.3 6.03S 147.90E 0 3.2,3.1
¶17203420

IDC Error ellipse: s-maj=100.3km s-min=25.9km az=99.0.
ISC V 11 19 46 31.2–2.6 6.5S–.10 147.7E–.50 63 3.6b 8 3-146
IDC V 11 19 46 23.2–2.2 6.36S 147.74E 0 3.9,3.8 **¶17203427**
ISCJB V 11 19 46 30.0–2.0 6.51S–.08 147.6E–.30 63 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 12 01 32 30.0–.94 6.42S–.08 147.8E–.30 51 4.1b,3.6s 15 3-146
IDC V 12 01 32 22.6–1.0 6.40S 147.90E 0 4.3,4.2 **¶17203446**
ISCJB V 12 01 32 28.5–.82 6.41S–.07 147.7E–.20 51 4.0b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC V 12 01 59 57.0–2.9 6.35S 147.79E 0 4.1,4.0b
¶17203448

IDC Error ellipse: s-maj=67.6km s-min=31.8km az=98.0.
IDC V 12 02 56 49.2–3.9 7.01S 148.66E 0 3.8L,3.5
¶17203451

IDC Error ellipse: s-maj=149.3km s-min=48.8km az=118.0.
IDC V 12 03 31 05.8–6.6 7.09S 148.13E 94–54 3.6,3.5L
¶17203453

IDC Error ellipse: s-maj=128.1km s-min=64.8km az=123.0.
IDC V 12 08 23 38.0–5.5 5.64S 147.46E 162–59 4.1,3.9
¶17203468

IDC Error ellipse: s-maj=80.2km s-min=28.9km az=137.0.
IDC V 12 09 06 41.1–8.0 6.37S 147.37E 51–73 3.7,3.7
¶17203469

IDC Error ellipse: s-maj=67.5km s-min=50.8km az=116.0.
IDC V 12 11 06 56.7–4.5 6.00S 146.94E 0 3.6,3.5
¶17203477

IDC Error ellipse: s-maj=67.5km s-min=42.0km az=58.0.
ISC V 12 21 21 41.9–1.2 6.3S–.10 147.3E–.30 63 3.6b 9 3-145
IDC V 12 21 21 33.3–1.3 6.30S 147.45E 0 3.8,3.7 **¶17203506**
ISCJB V 12 21 21 40.3–1.0 6.34S–.08 147.3E–.20 63 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 13 03 53 10.3–15 6.21S 146.99E 363–141 3.8,3.3b
¶17203522

IDC Error ellipse: s-maj=106.6km s-min=60.2km az=26.0.
ISC V 13 07 43 16.5–.58 6.85S–.07 147.9E–.10 54 4.7b,3.4s 37 3-151
IDC V 13 07 43 05.5–.97 6.48S 148.03E 0 4.2,4.1 **¶16577292**

ISCJB V 13 07 43 15.0–.56 6.93S–.06 147.79E–.09 54 4.5b,3.6s
NEIC V 13 07 43 17.0–.94 6.88S 147.79E 62–8 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=39.9km s-min=17.8km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=8.6km az=15.1.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=7.5km az=134.0.
ISC V 13 15 50 26.2–.41 5.53S–.05 147.46E–.07 35 5.0b 73 3-145
ISCJB V 13 15 50 24.4–.25 5.51S–.03 147.43E–.05 35 4.9b **¶16709785**
NEIC V 13 15 50 27.3–.74 5.52S 147.44E 46–7 5.1b
IDC V 13 15 50 28.9–3.3 5.58S 147.36E 59–31 4.3L,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.9km az=5.3.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.8km az=102.0.
IDC Error ellipse: s-maj=23.4km s-min=15.5km az=79.0.
IDC V 13 17 49 11.8–3.3 6.39S 148.00E 0 3.8,3.7L
¶17203563

IDC Error ellipse: s-maj=86.2km s-min=27.7km az=100.0.
IDC V 13 23 08 58.5–26 7.93S 147.73E 260–217 3.8,3.7
¶17203576

IDC Error ellipse: s-maj=156.9km s-min=81.8km az=34.0.
IDC V 14 07 14 23.2–7.1 6.50S 146.46E 143–72 3.2,2.9
¶17203591

IDC Error ellipse: s-maj=91.3km s-min=30.6km az=136.0.
IDC V 14 07 41 10.1–3.6 6.27S 147.82E 0 3.5,3.3L
¶17203594

IDC Error ellipse: s-maj=97.4km s-min=35.5km az=97.0.
IDC V 14 13 00 07.4–3.0 6.47S 147.75E 0 3.3,3.1
¶17203608

IDC Error ellipse: s-maj=83.7km s-min=33.0km az=99.0.
IDC V 14 14 02 47.1–6.5 6.83S 147.70E 74–48 3.6,3.5
¶17203614

IDC Error ellipse: s-maj=75.9km s-min=49.4km az=100.0.
IDC V 15 04 57 26.7–3.2 5.98S 147.39E 0 4.0,3.8
¶17203666

IDC Error ellipse: s-maj=83.9km s-min=39.2km az=96.0.
IDC V 15 05 03 37.0–2.9 6.12S 147.97E 0 4.0,3.9L
¶17203667

IDC Error ellipse: s-maj=78.0km s-min=34.8km az=97.0.
ISC V 15 14 49 39.9–1.1 6.3S–.10 147.9E–.40 51 3.5b 10 3-146
ISCJB V 15 14 49 38.2–.00 6.27S–.08 147.8E–.30 51 3.5b **¶17203697**
IDC V 15 14 49 42.0–3.7 6.44S 147.97E 75–37 4.1L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.8km s-min=9.5km az=9.4.
IDC Error ellipse: s-maj=56.7km s-min=25.0km az=109.0.
ISC V 16 18 17 55.3–2.4 6.5S–.20 147.9E–.40 51 3.5b 7 3-146
ISCJB V 16 18 17 53.1–2.3 6.4S–.20 148.0E–.40 51 3.6b **¶17203765**
IDC V 16 18 17 54.2–6.5 6.46S 148.02E 40–54 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.2km s-min=21.8km az=0.3.
IDC Error ellipse: s-maj=61.3km s-min=39.5km az=94.0.
ISC V 17 09 40 22.7–1.6 6.1S–.10 147.9E–.30 60 4.2b 14 3-146
IDC V 17 09 40 15.2–2.1 6.03S 147.86E 0 4.2,4.1 **¶16710094**
NEIC V 17 09 40 20.0–1.1 6.06S 147.91E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=60.2km s-min=24.4km az=96.0.
NEIC Event type se. Error ellipse: s-maj=25.2km s-min=14.9km az=89.0.
IDC V 17 10 56 45.8–6.5 7.22S 148.38E 96–48 3.6,3.5
¶17203817

IDC Error ellipse: s-maj=95.2km s-min=62.0km az=133.0.
ISC V 18 18 29 02.7–.27 6.62S–.04 147.81E–.05 51 4.9b,4.6s 305 3-153
MOS V 18 18 28 59.0–.98 6.54S 147.80E 34 5.0b,4.6s **¶16527355**
ISCJB V 18 18 29 00.6–.18 6.64S–.02 147.89E–.03 51 4.9b,4.6s
IDC V 18 18 29 02.5–1.5 6.58S 147.80E 53–14 4.8s,4.7
GCMT V 18 18 29 02.8–.20 6.63S 147.79E 14–0 5.1W,4.7
NEIC V 18 18 29 02.8–.63 6.65S 147.84E 57–6 4.9b,4.7
DJA V 18 18 29 05.1–.50 7S–3.0 148E–4.0 56–5 5.6b,5.3
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c68; s89,c144;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.71±.17 $M_{\theta\theta}$0.64±.12; $M_{\phi\phi}$2.07±.14; $M_{r\theta}$-1.18±.26; $M_{\theta\phi}$4.21±.11; $M_{\phi r}$1.23±.28; Best double couple: NP1:ϕ_s184.00000°,δ62.00000°,λ-145.00000°. NP2:ϕ_s76.00000°,δ60.00000°,λ-33.00000°. Principal axes: T 5.6300,Plg1.0000°,Azm310.0000°; N -1.1160,Plg47.0000°,Azm219.0000° ; P -4.5120,Plg43.0000°,Azm41.0000° $M_0$5.07100×10^{16}
NEIC Event type se.
IDC V 18 18 30 17.8–2.0 6.19S 147.55E 0 4.5,4.4
¶17203894

IDC Error ellipse: s-maj=62.1km s-min=24.5km az=99.0.
IDC V 18 18 42 43.3–2.9 6.54S 147.71E 0 3.8,3.7b
¶17203896

IDC Error ellipse: s-maj=66.9km s-min=37.9km az=102.0.
ISC V 18 18 51 26.4–.39 6.65S–.03 147.93E–.04 49–3 5.2s,5.1b 413 3-153
MOS V 18 18 51 23.8–1.4 6.57S 147.87E 41 5.4s,5.3b **¶16528316**
BJI V 18 18 51 23.9 6.58S 148.26E 60 5.4s,5.2
ISCJB V 18 18 51 24.1–.62 6.60S–.02 147.99E–.03 45–5 5.2s,5.1b
IDC V 18 18 51 25.4–1.4 6.56S 147.87E 42–12 5.2,5.2s
NEIC V 18 18 51 26.6–.58 6.63S 147.89E 53–5 5.2b,5.2s
GCMT V 18 18 51 26.6–.10 6.69S 147.81E 14–0 5.5W,5.2s
DJA V 18 18 51 34.2–.60 7S–3.0 148E–4.0 94–5 5.8b,5.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s114,c199; s112,c208;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$0.06±.02; $M_{\phi\phi}$1.02±.02; $M_{r\theta}$-0.98±.06; $M_{\theta\phi}$1.21±.02; $M_{\phi r}$0.51±.05; Best double couple: NP1:ϕ_s68.00000°,δ60.00000°,λ-41.00000°. NP2:ϕ_s181.00000° ,δ55.00000°,λ-143.00000°. Principal axes: T 1.8480,Plg3.0000°,Azm125.0000° ; N 0.1880,Plg41.0000°,Azm218.0000°; P -2.0370,Plg49.0000°,Azm32.0000° $M_0$1.94300×10^{17}
ISC V 18 18 54 20.0–.75 6.57S–.08 148.0E–.20 51 4.2b 21 3-146
ISCJB V 18 18 54 18.3–.70 6.60S–.08 147.9E–.10 51 4.3b **¶16710203**
NEIC V 18 18 54 20.8–1.8 6.65S 147.90E 59–16 4.7b
IDC V 18 18 54 20.1–4.2 6.65S 148.04E 52–38 4.2,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=10.4km az=10.7.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=12.9km az=103.0.
IDC Error ellipse: s-maj=33.2km s-min=21.9km az=99.0.
ISC V 18 19 01 19.7–1.2 6.7S–.10 147.9E–.30 51 3.5b 10 3-86
ISCJB V 18 19 01 18.3–1.0 6.67S–.09 147.9E–.20 51 3.6b **¶16710207**
IDC V 18 19 01 19.1–4.0 6.58S 147.97E 47–37 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.4km s-min=11.4km az=10.8.
IDC Error ellipse: s-maj=38.7km s-min=28.3km az=100.0.
IDC V 18 19 08 31.0–9.1 6.87S 147.58E 75–49 3.7,3.6
¶17203900

IDC Error ellipse: s-maj=99.0km s-min=59.6km az=30.0.
IDC V 18 19 11 30.1–7.3 7.01S 147.74E 88–64 3.5,3.3
¶17203901

IDC Error ellipse: s-maj=103.6km s-min=61.3km az=140.0.
IDC V 18 19 14 26.2–7.6 6.94S 147.89E 74–66 3.7,3.7
¶17203903

IDC Error ellipse: s-maj=103.4km s-min=59.9km az=140.0.
IDC V 18 19 55 53.2–7.0 7.04S 148.01E 86–58 3.7,3.6
¶17203905

IDC Error ellipse: s-maj=100.1km s-min=59.9km az=137.0.
IDC V 18 19 59 35.1–8.0 6.95S 147.94E 82–72 3.7,3.6
¶17203907

IDC Error ellipse: s-maj=124.5km s-min=63.9km az=139.0.
ISC V 18 20 41 48.1–.46 6.57S–.05 147.93E–.08 51 4.6b,4.3s 64 3-153
ISCJB V 18 20 41 46.0–.40 6.56S–.04 148.02E–.06 51 4.6b,4.3s **¶16710220**
NEIC V 18 20 41 48.6–.88 6.60S 147.85E 58–8 4.9b,4.3s

IDC V 18 20 41 49.2–2.2 6.56S 147.82E 60–19 4.5,4.3
DJA V 18 20 41 50.1–1.9 7S–7.0 148E–10 38–13 6.6,5.4b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 18 22 00 17.3–.66 6.60S–.07 147.9E–.20 51 4.3s,4.2b 31 3-153
IDC V 18 22 00 10.2–.82 6.54S 147.98E 0 4.3s,4.3 **¶16710229**
ISCJB V 18 22 00 15.5–.57 6.62S–.06 147.9E–.10 51 4.3s,4.3b
NEIC V 18 22 00 16.7–1.7 6.63S 147.92E 47–15 4.2b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=32.7km s-min=14.1km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=7.6km az=13.6.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.1km az=108.0.
ISC V 18 22 15 04.1–2.1 6.3S–.10 147.9E–.50 51 3.7b 8 3-123
ISCJB V 18 22 15 01.5–2.2 6.30S–.10 148.0E–.40 51 3.9s,3.8b **¶17203915**
IDC V 18 22 15 07.6–4.5 6.62S 148.22E 93–36 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.4km s-min=13.6km az=2.4.
IDC Error ellipse: s-maj=52.2km s-min=33.1km az=100.0.
ISC V 18 23 22 22.1–.59 6.59S–.06 147.8E–.10 51 4.5b,3.8s 55 3-138
ISCJB V 18 23 22 20.1–.45 6.66S–.04 147.86E–.08 51 4.7b,3.7s **¶16710236**
NEIC V 18 23 22 22.6–1.8 6.66S 147.87E 58–16 4.5b,3.7s
IDC V 18 23 22 22.9–3.2 6.60S 147.88E 60–28 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.5km az=5.3.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.9km az=76.0.
IDC Error ellipse: s-maj=34.0km s-min=15.1km az=85.0.
IDC V 19 01 23 38.1–6.1 7.18S 147.97E 99–51 3.7,3.6b
¶17203923
IDC Error ellipse: s-maj=87.0km s-min=51.3km az=126.0.
ISC V 19 04 02 27.0–2.4 6.7S–.20 147.9E–.40 51 3.8b,3.3s 7 3-146
IDC V 19 04 02 18.9–2.1 6.55S 148.18E 0 4.2,4.1L **¶17203942**
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=35.3km az=105.0.
IDC V 19 05 46 31.2–3.4 6.41S 147.65E 0 3.8,3.7b
¶17203947
IDC Error ellipse: s-maj=73.1km s-min=35.5km az=94.0.
ISC V 19 07 48 15.0–1.5 6.6S–.20 147.9E–.40 51 3.6b 7 3-146
IDC V 19 07 48 08.1–1.5 6.60S 148.05E 0 3.8,3.6 **¶17203951**
ISCJB V 19 07 48 13.6–1.4 6.6S–.20 147.8E–.30 51 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 07 54 10.8–1.5 6.6S–.10 147.6E–.30 63 4.5b 13 3-146
IDC V 19 07 54 02.8–2.7 6.55S 147.74E 0 4.1,4.0 **¶16710273**
NEIC V 19 07 54 08.2–1.0 6.60S 147.63E 35 4.5b,4.0
ISCJB V 19 07 54 09.2–2.0 6.7S–.10 147.6E–.20 63 4.2b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 19 09 23 42.5–3.2 6.37S 147.91E 0 4.1,4.0b
¶17203954
IDC Error ellipse: s-maj=75.9km s-min=33.3km az=98.0.
IDC V 19 09 26 31.6–3.1 6.39S 147.72E 0 4.0,3.8
¶17203955
IDC Error ellipse: s-maj=70.5km s-min=32.9km az=96.0.
IDC V 19 09 37 38.3–6.2 9.22S 149.21E 178–38 3.1,2.7
¶17203957
IDC Error ellipse: s-maj=87.8km s-min=45.6km az=110.0.
ISC V 19 09 49 59.8–2.0 6.4S–.10 147.9E–.30 51 3.6b 8 3-146
IDC V 19 09 50 04.4–6.5 6.68S 147.87E 80–44 3.9,3.8 **¶17203959**
ISC Event type ke.
IDC Error ellipse: s-maj=51.6km s-min=38.1km az=46.0.
IDC V 19 09 58 24.3–3.7 7.41S 148.60E 0 3.2,3.1
¶17203960
IDC Error ellipse: s-maj=133.0km s-min=50.2km az=120.0.
ISC V 19 11 54 16.9–.58 6.61S–.08 147.92E–.10 51 4.0b,3.7s 24 3-151
IDC V 19 11 54 10.5–.71 6.55S 147.90E 0 4.3,4.2 **¶16710290**
ISCJB V 19 11 54 15.0–.53 6.61S–.06 147.92E–.08 51 4.1b,3.6s
NEIC V 19 11 54 16.0–1.0 6.59S 147.92E 40–9 4.2b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=16.0km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=8.9km az=5.5.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.4km az=96.0.
ISC V 19 12 04 26.3–.86 5.38S–.08 147.6E–.10 170 3.6b 15 4-145
ISCJB V 19 12 04 24.5–.76 5.39S–.07 147.65E–.10 170 3.7b **¶17203967**
IDC V 19 12 04 28.0–1.8 5.48S 147.44E 186–15 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=8.5km az=161.6.
IDC Error ellipse: s-maj=22.4km s-min=11.9km az=74.0.
ISC V 19 12 50 05.6–1.5 6.6S–.10 147.3E–.30 63 3.7b 10 3-146
IDC V 19 12 49 59.5–5.7 6.45S 147.37E 14–26 4.0,3.9 **¶17203971**
ISCJB V 19 12 50 03.2–2.2 6.5S–.10 147.3E–.30 63 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC V 19 16 20 03.8–3.4 6.40S 147.38E 0 3.6s,3.6
¶17203980
IDC Error ellipse: s-maj=67.9km s-min=34.8km az=86.0.
IDC V 19 17 24 05.9–2.2 6.40S 147.79E 0 4.0,3.8b
¶17203982
IDC Error ellipse: s-maj=62.6km s-min=22.8km az=95.0.
IDC V 19 17 53 53.4–3.0 6.30S 147.80E 0 3.9b,3.9
¶17203984
IDC Error ellipse: s-maj=65.7km s-min=33.9km az=90.0.
ISC V 19 20 14 56.0–.63 6.55S–.06 147.9E–.10 51 4.7b,4.1s 42 3-153
ISCJB V 19 20 14 53.9–.55 6.52S–.05 147.95E–.09 51 4.7b,4.2s **¶16710324**
NEIC V 19 20 14 56.0–.96 6.59S 147.87E 52–8 4.9b,4.2s
IDC V 19 20 14 57.0–1.9 6.54S 147.84E 60–16 4.4,4.3
DJA V 19 20 15 01.7–1.3 7S–8.0 148E–12 87–8 5.9,5.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 20 06 17 35.5–3.1 5.59S 147.13E 0 4.0,4.0L
¶17204018
IDC Error ellipse: s-maj=62.3km s-min=35.0km az=78.0.
ISC V 20 11 26 41.7–1.1 5.43S–.10 147.4E–.20 170 3.8b 11 4-145
ISCJB V 20 11 26 40.0–1.0 5.41S–.08 147.6E–.20 170 3.7b **¶17204036**
IDC V 20 11 26 43.5–1.9 5.61S 147.57E 192–22 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.3km s-min=10.4km az=9.2.
IDC Error ellipse: s-maj=41.9km s-min=13.5km az=119.0.
IDC V 20 13 41 52.1–3.0 6.46S 147.78E 0 3.9,3.8b
¶17204044
IDC Error ellipse: s-maj=59.8km s-min=39.3km az=91.0.
IDC V 20 14 23 16.9–2.4 7.59S 146.96E 0 3.4,3.2
¶17204047
IDC Error ellipse: s-maj=69.7km s-min=27.8km az=85.0.
ISC V 20 18 19 59.6–3.2 6.5S–.10 147.5E–.60 63 3.4b 6 3-146
IDC V 20 18 19 50.7–2.4 6.51S 147.71E 0 3.6,3.5 **¶17204065**
ISCJB V 20 18 19 56.4–2.9 6.5S–.10 147.7E–.40 63 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 19 43 17.4–.41 7.20S–.02 146.94E–.03 14–2 6.1b,5.5s 1747 2-167
ISCJB V 20 19 43 13.9–.75 7.19S–.02 146.91E–.02 0–4 6.1b,5.5s **¶602607383**
IDC V 20 19 43 15.6–.25 7.16S 146.85E 0 5.8,5.8
BJI V 20 19 43 15.7 7.15S 147.00E 10 6.2b,5.8b
NEIC V 20 19 43 15.0–.00 7.21S 146.89E 15 6.2b,5.8b
GCMT V 20 19 43 16.2–.10 7.38S 147.05E 12 5.7W,5.8b
NEIC V 20 19 43 16.2–.09 7.19S 146.91E 7 6.2b,5.7
MOS V 20 19 43 18.7–.87 7.22S 146.88E 33 6.2b,5.5s
DJA V 20 19 43 21.0–.90 7S–2.0 147E–3.0 36–7 6.3b,6.2
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.10 $M_{\theta\theta}$0.40 $M_{\phi\phi}$1.70 $M_{r\theta}$-1.10 $M_{\theta\phi}$-3.20 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s356.00000° ,δ63.00000°,λ-36.00000°. NP2:ϕ_s104.00000°,δ58.00000°,λ-148.00000°. Principal axes: T 4.3000,Plg3.0000°,Azm51.0000°; N -0.4000,Plg46.0000°,Azm145.0000° ; P -3.9000,Plg43.0000°,Azm318.0000° $M_0$4.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c194; s130,c374;Duration: 1sΦ Moment tensor: Scale 10^{17} Nm; M_{rr}-1.97±.04 $M_{\theta\theta}$0.71±.04; $M_{\phi\phi}$1.26±.04; $M_{r\theta}$-1.27±.09; $M_{\theta\phi}$-3.88±.03; $M_{\phi r}$-1.91±.10; Best double couple: NP1:ϕ_s355.00000°,δ67.00000°,λ-33.00000°. NP2:ϕ_s99.00000° ,δ60.00000°,λ-153.00000°. Principal axes: T 4.9210,Plg5.0000°,Azm48.0000° ; N -0.1900,Plg50.0000°,Azm144.0000°; P -4.7280,Plg39.0000°,Azm314.0000° $M_0$4.82500×10^{17}
NEIC Event type fe. Felt at Kainantu, Port Moresby and Wau. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.15 $M_{\theta\theta}$1.71 $M_{\phi\phi}$1.43 $M_{r\theta}$1.24 $M_{\theta\phi}$-2.63 $M_{\phi r}$-0.81 Best double couple: NP1:ϕ_s308.00000°,δ56.00000°,λ-97.00000°. NP2:ϕ_s141.00000° ,δ35.00000°,λ-79.00000°. Principal axes: T 4.4900,Plg11.0000°,Azm43.0000° ; N -1.0400,Plg6.0000°,Azm312.0000°; P -3.4500,Plg78.0000°,Azm193.0000° $M_0$4.10000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s270.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s90.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm180.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000° ,Azm360.0000°
ISC V 20 19 47 18.0–.35 7.15S–.04 147.04E–.07 33 5.2b 132 2-152
IDC V 20 19 47 13.4–.66 7.05S 147.09E 0 4.9,4.8 **¶16710436**
ISCJB V 20 19 47 16.0–.21 7.10S–.03 147.03E–.05 33 5.1b,4.8
NEIC V 20 19 47 15.9–2.7 7.09S 147.04E 18–17 5.3b,4.8
MOS V 20 19 47 15.7–.82 7.15S 147.06E 33 5.4b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=28.7km s-min=12.7km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.9km az=166.5.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=72.0.
MOS Error ellipse: s-maj=17.4km s-min=8.2km az=94.7.
ISC V 20 19 52 34.2–.63 7.19S–.05 147.0E–.10 33 4.3b 34 2-152
IDC V 20 19 52 29.2–1.4 7.13S 147.15E 0 4.3,4.1 **¶16710437**
NEIC V 20 19 52 30.9–.50 7.15S 147.05E 10 4.8b,4.1
ISCJB V 20 19 52 32.5–.46 7.15S–.04 147.0E–.10 33 4.3b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 20 20 22 56.7–1.8 7.4S–.10 147.0E–.30 33 7 2-145
IDC V 20 20 22 51.6–2.4 7.24S 147.11E 0 3.6,3.4 **¶16710445**
ISC Event type ke.
IDC Error ellipse: s-maj=70.2km s-min=21.7km az=84.0.
ISC V 20 20 23 34.3–.70 7.22S–.06 147.0E–.10 33 4.0b 33 2-145
IDC V 20 20 23 29.7–1.4 7.10S 147.09E 0 3.9,3.8 **¶17204079**
NEIC V 20 20 23 30.7–.54 7.18S 147.13E 10 4.1b,3.8
ISCJB V 20 20 23 32.3–.56 7.18S–.05 147.07E–.09 33 4.3b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 21 01 30 46.5–1.9 7.23S 146.73E 0 3.7,3.5
¶17204103
IDC Error ellipse: s-maj=61.3km s-min=23.2km az=80.0.
ISC V 21 09 53 55.1–.45 7.32S–.03 147.01E–.05 48–3 5.2b,4.1s 350 2-152
IDC V 21 09 53 48.5–.40 7.24S 147.03E 0 5.0,5.0 **¶16531630**
ISCJB V 21 09 53 52.3–.67 7.27S–.02 146.94E–.03 33–6 5.1b,4.1s
MOS V 21 09 53 52.2–1.0 7.22S 146.95E 33 5.3b,4.1s
BJI V 21 09 53 54.5 6.77S 147.18E 42 5.1b,5.0b
GCMT V 21 09 53 55.8–.30 7.30S 147.16E 27–1 5.0W,5.0b
NEIC V 21 09 53 55.9–.53 7.29S 146.95E 54–5 5.1b,5.0b
DJA V 21 09 53 55.6–1.3 7S–3.0 147E–4.0 39–10 7.4,5.4b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c46; s70,c98;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.04±.20 $M_{\theta\theta}$1.91±.12; $M_{\phi\phi}$1.13±.13; $M_{r\theta}$1.49±.19; $M_{\theta\phi}$-1.62±.07; $M_{\phi r}$-2.63±.26; Best double couple: NP1:ϕ_s323.00000°,δ67.00000°,λ-78.00000°. NP2:ϕ_s114.00000°,δ25.00000°,λ-117.00000°. Principal axes: T 4.2980,Plg22.0000°,Azm44.0000°; N 0.0850,Plg11.0000°,Azm139.0000° ; P -4.3830,Plg65.0000°,Azm254.0000° $M_0$4.34000×10^{16}
NEIC Event type fe. Felt at Wau.
ISC V 21 18 02 42.8–.61 7.32S–.06 147.2E–.10 33 4.2b,3.2s 35 2-146
IDC V 21 18 02 38.7–1.2 7.11S 147.22E 0 4.1,4.0 **¶16710530**
ISCJB V 21 18 02 41.6–.45 7.21S–.05 147.15E–.08 33 4.4b,3.2s
NEIC V 21 18 02 45.5–.76 7.30S 147.15E 55–8 4.4b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=39.2km s-min=16.7km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=6.6km az=15.2.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.9km az=115.0.
IDC V 21 18 06 16.5–1.4 7.09S 147.29E 0 4.0,3.8
¶17204153
IDC Error ellipse: s-maj=49.1km s-min=19.1km az=92.0.
ISC V 21 22 43 26.7–.77 6.53S–.09 147.8E–.10 51 4.4b 15 3-146
ISCJB V 21 22 43 24.9–.70 6.52S–.07 147.84E–.10 51 4.2b **¶16628198**
NEIC V 21 22 43 28.7–1.3 6.70S 147.90E 72–13 4.3b
IDC V 21 22 43 29.7–7.1 6.67S 147.84E 77–62 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=9.9km az=21.1.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=8.2km az=149.0.
IDC Error ellipse: s-maj=75.9km s-min=51.7km az=123.0.
ISC V 22 00 02 26.9–.45 6.48S–.06 147.96E–.09 51 4.2b,3.9s 44 3-153
IDC V 22 00 02 20.0–.56 6.48S 147.92E 0 4.5,4.4 **¶16628200**
ISCJB V 22 00 02 24.9–.40 6.53S–.06 147.91E–.08 51 4.3b,3.8s
NEIC V 22 00 02 26.3–.77 6.54S 147.93E 47–7 4.4b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=10.5km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=8.0km az=10.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.1km az=100.0.
IDC V 22 01 50 54.8–3.2 6.36S 147.58E 0 3.6,3.5b
¶17204175
IDC Error ellipse: s-maj=72.4km s-min=33.5km az=94.0.
IDC V 22 04 29 15.0–3.3 6.38S 147.69E 0 3.5,3.3
¶17204181
IDC Error ellipse: s-maj=74.0km s-min=33.8km az=94.0.
IDC V 22 16 01 15.3–5.2 7.49S 147.14E 75–60 3.8,3.8s
¶17204235
IDC Error ellipse: s-maj=91.9km s-min=41.6km az=122.0.
IDC V 23 00 40 25.1–2.8 6.30S 147.48E 0 3.9,3.7L
¶17204265
IDC Error ellipse: s-maj=70.3km s-min=27.5km az=97.0.
IDC V 23 02 47 59.9–2.2 5.03S 146.63E 0 4.0,3.9L
¶17204274
IDC Error ellipse: s-maj=287.9km s-min=29.7km az=121.0.
IDC V 23 15 09 47.0–3.3 6.45S 147.57E 0 3.8,3.6
¶17204304
IDC Error ellipse: s-maj=72.4km s-min=33.5km az=92.0.
ISC V 24 12 28 14.3–.59 7.33S–.04 147.1E–.10 32 4.5b,3.2s 49 2-152
IDC V 24 12 28 09.5–.99 7.30S 147.15E 0 4.3,4.2 **¶16544914**
ISCJB V 24 12 28 12.9–.43 7.39S–.05 146.98E–.09 32 4.5b,3.2s
NEIC V 24 12 28 16.7–1.3 7.52S 147.07E 49–14 4.5b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=35.8km s-min=14.5km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=5.6km az=16.6.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=10.8km az=111.0.
ISC V 25 02 38 01.0–1.2 6.44S–.09 147.5E–.20 63 3.7b 17 3-146
IDC V 25 02 37 52.3–1.2 6.26S 147.64E 0 4.0,3.9 **¶16617323**
ISCJB V 25 02 37 59.4–1.0 6.43S–.06 147.5E–.20 63 3.8b,3.9
NEIC V 25 02 37 59.0–1.8 6.36S 147.51E 44–15 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=44.5km s-min=19.2km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=27.7km s-min=9.1km az=179.7.

NEIC Event type se. Error ellipse: s-maj=19.6km s-min=14.9km az=96.0.
IDC V 25 06 10 23.4–2.1 4.43S 146.55E 0 3.8,3.7L
¶17204432

IDC Error ellipse: s-maj=246.8km s-min=30.3km az=120.0.
IDC V 25 10 57 36.8–7.3 7.02S 147.82E 82–65 3.6,3.5L
¶17204445

IDC Error ellipse: s-maj=123.7km s-min=63.1km az=130.0.
IDC V 25 12 05 17.7–2.9 6.92S 147.48E 0 3.7,3.5
¶17204449

IDC Error ellipse: s-maj=76.5km s-min=22.7km az=92.0.
IDC V 25 12 38 18.8–3.8 6.47S 147.68E 0 3.5,3.3
¶17204450

IDC Error ellipse: s-maj=106.9km s-min=42.6km az=98.0.
IDC V 25 15 51 18.6–1.5 6.66S 147.87E 0 3.9,3.9L
¶17204457

IDC Error ellipse: s-maj=60.7km s-min=22.4km az=94.0.
IDC V 26 00 32 13.3–1.7 5.55S 146.03E 0 3.8,3.6
¶17204474

IDC Error ellipse: s-maj=54.2km s-min=26.5km az=102.0.
IDC V 27 20 32 15.8–8.8 6.62S 146.21E 0 3.4,3.2
¶17204588

IDC Error ellipse: s-maj=123.7km s-min=46.1km az=32.0.
IDC V 28 17 58 04.0–3.7 7.14S 148.96E 0 3.6,3.4L
¶17204647

IDC Error ellipse: s-maj=122.1km s-min=48.8km az=119.0.
IDC V 30 22 21 42.5–5.1 5.55S 147.29E 218–54 3.7,3.4
¶17204792

IDC Error ellipse: s-maj=89.9km s-min=29.3km az=134.0.
IDC V 31 09 50 14.1–7.6 6.57S 147.96E 66–65 3.7,3.7
¶17204822

IDC Error ellipse: s-maj=82.9km s-min=53.4km az=116.0.
ISC V 31 19 08 16.5–.35 5.65S–.04 146.76E–.06 100 4.5b 94 4-154
ISCJB V 31 19 08 14.6–.29 5.57S–.03 146.81E–.05 100 4.4b **¶16577362**
NEIC V 31 19 08 18.6–.61 5.61S 146.76E 126–6 4.7b
IDC V 31 19 08 19.3–2.5 5.58S 146.77E 130–23 4.6,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.5km az=176.9.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.8km az=101.0. Felt at Kainantu and Lae.
IDC Error ellipse: s-maj=17.5km s-min=11.0km az=91.0.
IDC V 31 20 19 25.9–6.7 7.05S 147.91E 90–56 3.8,3.7
¶17204845

IDC Error ellipse: s-maj=93.2km s-min=59.2km az=140.0.
ISC VI 01 02 53 30.8–.51 6.50S–.06 147.87E–.08 51 4.2b,4.2s 56 3-153
ISCJB VI 01 02 53 29.1–.39 6.57S–.04 147.85E–.06 51 4.3b,4.3s **¶16632934**
IDC VI 01 02 53 30.6–2.1 6.54S 147.88E 48–20 4.4,4.4s
NEIC VI 01 02 53 31.3–.76 6.57S 147.88E 56–7 4.3b,4.4s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.0km az=4.0.
IDC Error ellipse: s-maj=21.0km s-min=14.1km az=86.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.6km az=74.0.
IDC VI 01 03 55 42.8–7.1 6.81S 147.93E 80–62 3.7,3.6
¶17204859

IDC Error ellipse: s-maj=85.2km s-min=52.6km az=122.0.
ISC VI 01 03 58 51.8–.47 6.53S–.06 147.91E–.09 51 4.3b,3.9s 37 3-153
ISCJB VI 01 03 58 49.7–.41 6.57S–.05 147.88E–.08 51 4.3b,3.9s **¶16640725**
IDC VI 01 03 58 51.7–2.3 6.59S 147.94E 52–21 4.3,4.1
NEIC VI 01 03 58 52.5–.80 6.60S 147.87E 59–7 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.3km az=4.1.
IDC Error ellipse: s-maj=19.3km s-min=12.1km az=92.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.6km az=90.0.
IDC VI 02 06 30 47.6–1.6 9.63S 148.78E 0 4.1,4.0L
¶17204952

IDC Error ellipse: s-maj=44.2km s-min=26.5km az=157.0.
IDC VI 02 08 28 37.2–3.2 6.29S 147.82E 0 3.5,3.4
¶17204968

IDC Error ellipse: s-maj=77.8km s-min=33.6km az=97.0.
IDC VI 04 02 24 29.7–5.5 5.85S 147.54E 220–66 3.3,2.9
¶17205149

IDC Error ellipse: s-maj=149.0km s-min=45.3km az=122.0.
ISC VI 04 12 23 36.6–.94 5.49S–.09 147.3E–.10 170 3.8b 14 4-145
ISCJB VI 04 12 23 35.5–.87 5.46S–.08 147.37E–.09 170 4.0b **¶17205200**
IDC VI 04 12 23 38.6–1.5 5.60S 147.25E 187–12 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=10.8km az=9.4.
IDC Error ellipse: s-maj=21.1km s-min=13.1km az=107.0.
ISC VI 04 15 37 33.4–2.0 6.5S–.10 147.7E–.30 63 3.8b 10 3-146
IDC VI 04 15 37 25.8–2.8 6.41S 147.87E 0 4.1,4.0 **¶16856313**
NEIC VI 04 15 37 34.8–4.0 6.66S 147.63E 60–26 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=62.3km s-min=32.6km az=92.0.
NEIC Event type se. Error ellipse: s-maj=39.4km s-min=24.8km az=218.0.
ISC VI 05 06 15 35.5–.85 5.60S–.08 147.1E–.10 195 4.0b 16 4-145
IDC VI 05 06 15 33.8–1.3 5.59S 147.20E 176–11 4.1,3.9 **¶17205282**
ISC Event type ke.
IDC Error ellipse: s-maj=16.4km s-min=9.9km az=107.0.
IDC VI 05 17 42 02.7–3.7 7.12S 147.24E 0 3.4,3.3
¶17205347

IDC Error ellipse: s-maj=87.2km s-min=35.0km az=85.0.
IDC VI 07 08 12 38.3–3.6 6.44S 147.95E 0 3.7,3.6b
¶17205466

IDC Error ellipse: s-maj=85.2km s-min=42.1km az=102.0.
IDC VI 07 13 54 48.5–3.3 6.47S 147.99E 0 3.6,3.5b
¶17205489

IDC Error ellipse: s-maj=76.5km s-min=39.7km az=103.0.
ISC VI 08 01 08 55.4–.71 5.83S–.07 146.9E–.10 78 4.1b 20 4-145
ISCJB VI 08 01 08 53.7–.71 5.80S–.05 147.0E–.20 78 4.0b **¶16682666**
NEIC VI 08 01 08 55.9–1.9 5.79S 146.97E 83–20 4.3b
IDC VI 08 01 08 56.4–2.4 5.91S 147.11E 87–24 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.0km s-min=7.6km az=1.3.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=14.1km az=108.0.
IDC Error ellipse: s-maj=33.1km s-min=12.8km az=110.0.
ISC VI 08 06 31 33.9–1.1 5.83S–.10 147.0E–.30 78 3.8b 10 4-145
ISCJB VI 08 06 31 32.4–1.1 5.84S–.08 147.0E–.20 78 3.9b **¶17205538**
IDC VI 08 06 31 33.2–5.1 5.83S 147.09E 71–48 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.7km s-min=11.3km az=177.7.
IDC Error ellipse: s-maj=45.2km s-min=27.7km az=128.0.
IDC VI 09 13 13 55.0–3.1 6.56S 147.86E 0 3.6,3.5b
¶17205628

IDC Error ellipse: s-maj=74.7km s-min=38.7km az=103.0.
IDC VI 09 14 01 33.6–3.0 6.51S 147.93E 0 4.1,4.0
¶17205636

IDC Error ellipse: s-maj=71.0km s-min=38.2km az=104.0.
IDC VI 09 14 03 04.0–3.2 6.51S 147.65E 0 3.8,3.7b
¶17205637

IDC Error ellipse: s-maj=74.6km s-min=39.7km az=99.0.
ISC VI 09 14 16 57.5–1.0 6.6S–.10 147.9E–.30 51 3.9b,3.0s 14 3-146
IDC VI 09 14 16 51.1–1.2 6.52S 147.89E 0 4.1,4.0 **¶16856784**
ISCJB VI 09 14 16 55.7–.86 6.55S–.08 147.8E–.20 51 3.9b,3.0s
NEIC VI 09 14 16 56.1–.86 6.56S 147.87E 35 4.2b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=50.3km s-min=16.3km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=29.8km s-min=8.8km az=12.6.
NEIC Event type se. Error ellipse: s-maj=34.4km s-min=11.8km az=107.0.
ISC VI 10 00 11 22.4–.41 6.62S–.03 147.94E–.04 41–3 5.2b,4.8s 558 3-153
IDC VI 10 00 11 16.4–.38 6.60S 147.65E 0 5.0,5.0 **¶16581500**
BJI VI 10 00 11 18.0 6.54S 148.28E 34 5.3b,5.0s
ISCJB VI 10 00 11 21.0–.70 6.64S–.03 147.98E–.03 47–6 5.2b,4.8s
MOS VI 10 00 11 21.8–1.4 6.53S 147.69E 44 5.4b,4.8s
NEIC VI 10 00 11 23.4–.69 6.62S 147.87E 52–6 5.2b,4.8s
GCMT VI 10 00 11 23.4–.10 6.79S 147.85E 12 5.2W,4.8s
DJA VI 10 00 11 29.3–.90 7S–4.0 148E–6.0 88–7 5.9b,5.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c144; s110,c221;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$0.71±.01; $M_{r\theta}$-0.32±.03; $M_{\theta\phi}$0.38±.01; $M_{\phi r}$-0.08±.03; Best double couple: NP1:ϕ_s42.00000°,δ54.00000°,λ-69.00000°. NP2:ϕ_s189.00000°,δ41.00000°,λ-116.00000°. Principal axes: T 0.9230,Plg7.0000°,Azm117.0000°; N -0.0150,Plg17.0000°,Azm209.0000°; P -0.9090,Plg72.0000°,Azm5.0000° $M_0$0.91600×10^{17}
ISC VI 10 00 31 16.3–.54 6.61S–.06 147.8E–.10 51 4.0b 29 3-146
ISCJB VI 10 00 31 14.4–.45 6.60S–.05 147.87E–.09 51 4.2b **¶16713620**
IDC VI 10 00 31 16.1–3.6 6.66S 147.93E 52–32 3.9,3.9L
NEIC VI 10 00 31 17.1–.94 6.65S 147.88E 62–9 4.4b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=6.6km az=8.4.
IDC Error ellipse: s-maj=40.0km s-min=19.4km az=94.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.2km az=112.0.
IDC VI 10 04 35 11.8–6.8 7.15S 147.91E 94–56 3.4,3.2
¶17205684

IDC Error ellipse: s-maj=100.4km s-min=62.4km az=138.0.
IDC VI 10 07 15 46.5–3.1 6.45S 147.70E 0 3.9,3.8b
¶17205689

IDC Error ellipse: s-maj=69.4km s-min=33.0km az=95.0.
IDC VI 10 23 08 38.6–2.8 8.63S 150.73E 0 3.4,3.4L
¶17205741

IDC Error ellipse: s-maj=81.5km s-min=41.7km az=151.0.
ISC VI 11 05 59 59.0–1.5 5.7S–.10 147.1E–.30 195 3.3b 6 4-85
IDC VI 11 05 59 54.7–2.5 5.35S 146.77E 146–24 3.5,3.2 **¶17205757**
ISCJB VI 11 05 59 57.9–1.4 5.7S–.10 147.0E–.20 195 3.5b,3.2
ISC Event type ke.
ISCJB Event type ke.
IDC VI 11 10 07 35.3–2.8 5.96S 147.80E 0 4.4,4.3
¶17205770

IDC Error ellipse: s-maj=61.5km s-min=32.7km az=89.0.
ISC VI 12 15 15 34.0–.65 5.51S–.07 147.08E–.10 195 3.9b 35 4-145
DJA VI 12 15 15 32.2–1.1 5S–9.0 147E–11 172–7 4.8b,4.7 **¶16684517**
ISCJB VI 12 15 15 33.2–.47 5.43S–.05 147.05E–.07 195 4.1b,4.7
NEIC VI 12 15 15 33.6–.40 5.45S 147.14E 186 4.1b,4.7
IDC VI 12 15 15 33.9–1.6 5.51S 147.08E 190–14 4.4,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=7.5km az=174.3.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=7.1km az=96.0.
IDC Error ellipse: s-maj=19.1km s-min=9.7km az=109.0.
IDC VI 13 08 22 26.7–8.4 6.02S 147.95E 75–54 4.1L,3.9
¶17206040

IDC Error ellipse: s-maj=70.9km s-min=50.1km az=63.0.
IDC VI 13 21 32 03.8–2.9 5.91S 146.21E 116–33 3.9,3.7
¶17206069

IDC Error ellipse: s-maj=33.6km s-min=19.4km az=107.0.
IDC VI 14 08 40 32.1–2.7 7.06S 147.03E 0 3.4,3.4b
¶17206101

IDC Error ellipse: s-maj=57.1km s-min=19.4km az=81.0.
IDC VI 14 13 50 48.5–6.3 6.91S 147.79E 59–49 4.1,4.1s
¶17206117

IDC Error ellipse: s-maj=56.7km s-min=50.8km az=133.0.
IDC VI 15 09 15 57.3–3.6 7.01S 148.90E 0 3.4,3.3L
¶17206175

IDC Error ellipse: s-maj=120.9km s-min=48.3km az=118.0.
ISC VI 16 17 03 52.5–.63 5.31S–.06 147.7E–.10 35 4.1b,3.3s 51 3-146
IDC VI 16 17 03 45.3–.85 5.17S 147.85E 0 4.2,4.0 **¶16628212**
BJI VI 16 17 03 48.2 5.77S 147.16E 11 5.0b,4.8s
ISCJB VI 16 17 03 50.6–.58 5.35S–.05 147.56E–.10 35 4.2b,3.3s
NEIC VI 16 17 03 54.0–.94 5.30S 147.60E 58–8 4.6b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=15.5km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=6.7km az=178.1.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=6.4km az=88.0.
ISC VI 17 04 31 15.9–1.3 6.4S–.10 147.8E–.30 51 3.6b 9 3-153
IDC VI 17 04 31 09.0–1.2 6.34S 147.86E 0 4.0,3.8 **¶17206367**
ISCJB VI 17 04 31 14.3–1.3 6.4S–.10 147.8E–.20 51 3.8b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 17 09 15 06.1–1.8 5.60S 147.49E 0 4.0,4.0L
¶17206376

IDC Error ellipse: s-maj=66.1km s-min=27.4km az=117.0.
ISC VI 18 00 58 19.3–.52 5.36S–.04 145.92E–.05 101–4 5.0b 101 4-146
ISCJB VI 18 00 58 17.9–.72 5.36S–.03 145.87E–.04 105–7 4.9b **¶16631892**
IDC VI 18 00 58 17.9–.76 5.29S 146.01E 96–7 4.3,4.2
BJI VI 18 00 58 18.9 5.30S 145.80E 97 4.9b,4.6b
NEIC VI 18 00 58 19.3–.49 5.35S 145.84E 104–5 5.1b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=1.1.
IDC Error ellipse: s-maj=17.4km s-min=8.9km az=88.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.8km az=104.0.
ISC VI 18 02 19 03.6–.88 6.5S–.10 148.0E–.20 51 4.2b 18 3-146
IDC VI 18 02 18 56.4–1.1 6.48S 148.12E 0 4.4,4.2 **¶16716888**
ISCJB VI 18 02 19 02.3–.99 6.6S–.10 147.9E–.20 51 4.4b,3.3s
NEIC VI 18 02 19 03.6–1.9 6.57S 147.99E 49–15 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=46.3km s-min=20.6km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=23.5km s-min=15.0km az=20.6.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=14.8km az=168.0.
IDC VI 18 08 25 17.8–3.5 7.10S 148.85E 0 3.5,3.5
¶17206448

IDC Error ellipse: s-maj=124.2km s-min=46.5km az=119.0.
ISC VI 18 11 56 39.0–.27 6.26S–.03 146.70E–.05 50 5.2b,4.8s 248 3-152
IDC VI 18 11 56 31.4–.48 6.30S 146.76E 0 5.1,5.0 **¶16631901**
BJI VI 18 11 56 36.9 6.11S 146.97E 58 5.6b,5.3s
MOS VI 18 11 56 36.5–.93 6.27S 146.64E 45 5.3b,4.7s
ISCJB VI 18 11 56 37.0–.18 6.30S–.02 146.59E–.04 50 5.2b,4.8s
GCMT VI 18 11 56 39.7–.30 6.39S 146.72E 47–2 5.1W,4.8s
NEIC VI 18 11 56 39.7–.56 6.32S 146.59E 60–5 5.2b,4.8s
DJA VI 18 11 56 42.3–.50 7S–3.0 147E–5.0 69–5 5.6,5.3b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c17; s74,c106;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.36±.40 $M_{\theta\theta}$-0.39±.24; $M_{\phi\phi}$1.75±.27; $M_{r\theta}$2.42±.18; $M_{\theta\phi}$-4.04±.15; $M_{\phi r}$-0.71±.21; Best double couple: NP1:ϕ_s282.00000°,δ82.00000°,λ-145.00000°. NP2:ϕ_s186.00000°,δ56.00000°,λ-10.00000°. Principal axes: T 5.4900,Plg17.0000°,Azm49.0000°; N -1.1280,Plg55.0000°,Azm294.0000°; P -4.3620,Plg30.0000°,Azm150.0000° $M_0$4.92600×10^{16}
NEIC Event type fe. Felt at Kainantu and Lae.
ISC VI 18 14 46 44.6–.87 5.82S–.07 147.4E–.20 77 3.8b 22 4-145
ISCJB VI 18 14 46 42.7–.82 5.84S–.06 147.6E–.20 77 3.8b **¶16730893**
IDC VI 18 14 46 48.8–1.8 6.09S 147.73E 129–19 4.4s,4.4
NEIC VI 18 14 46 49.3–2.1 5.94S 147.61E 129–23 4.4b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.5km s-min=7.3km az=12.0.
IDC Error ellipse: s-maj=34.5km s-min=11.6km az=112.0.
NEIC Event type se. Error ellipse: s-maj=34.5km s-min=15.4km az=107.0.
ISC VI 18 20 38 28.0–.88 6.24S–.09 147.8E–.10 63 4.0b 21 3-146
IDC VI 18 20 38 21.0–2.9 6.05S 147.58E 0 4.0,3.9b **¶16722432**
ISCJB VI 18 20 38 26.0–.76 6.23S–.08 147.77E–.09 63 4.5b,3.9b
NEIC VI 18 20 38 26.9–.86 6.25S 147.78E 47–9 4.1b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=61.6km s-min=37.9km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=9.5km az=38.1.

NEIC Event type se. Error ellipse: s-maj=12.2km s-min=6.5km az=142.0.
IDC VI 18 22 56 56.9–3.3 6.50S 147.91E 0 3.5,3.3
¶17206494

IDC Error ellipse: s-maj=105.9km s-min=38.8km az=103.0.
ISC VI 20 10 32 16.9–1.4 6.73S–.09 147.6E–.30 63 3.9b 9 3-146
ISCJB VI 20 10 32 15.6–1.2 6.71S–.07 147.4E–.20 63 3.8b **¶17206589**
IDC VI 20 10 32 17.2–4.0 6.79S 147.57E 66–43 4.0L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.2km s-min=10.2km az=0.9.
IDC Error ellipse: s-maj=45.6km s-min=26.7km az=119.0.
IDC VI 21 07 36 43.9–1.4 5.52S 147.17E 0 3.9,3.7
¶17206663

IDC Error ellipse: s-maj=58.6km s-min=24.5km az=118.0.
ISC VI 22 02 38 55.9–2.1 6.7S–.10 147.7E–.30 63 3.8b 9 3-146
IDC VI 22 02 38 47.9–2.0 6.60S 147.76E 0 4.0,3.8 **¶16731192**
NEIC VI 22 02 38 53.6–1.5 6.69S 147.74E 35 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=46.4km s-min=32.6km az=98.0.
NEIC Event type se. Error ellipse: s-maj=30.6km s-min=22.2km az=98.0.
IDC VI 22 06 43 16.9–6.2 7.12S 147.86E 75–43 3.9,3.8
¶17206731

IDC Error ellipse: s-maj=58.8km s-min=43.4km az=10.0.
IDC VI 22 21 16 10.8–3.3 5.26S 147.33E 0 3.7,3.5
¶17206781

IDC Error ellipse: s-maj=74.7km s-min=40.2km az=93.0.
IDC VI 24 14 34 19.1–6.4 8.37S 149.96E 92–43 4.0,3.9
¶17206876

IDC Error ellipse: s-maj=58.9km s-min=26.6km az=104.0.
ISC VI 24 18 47 14.6–.35 5.69S–.05 146.14E–.05 69 4.7b 141 4-151
BJI VI 24 18 47 09.0 5.79S 146.38E 56 5.0b,4.9s **¶16681173**
ISCJB VI 24 18 47 12.7–.21 5.69S–.03 146.06E–.04 69 4.6b,4.9s
IDC VI 24 18 47 14.8–2.3 5.71S 146.07E 74–21 4.5,4.3
NEIC VI 24 18 47 14.2–.61 5.67S 146.05E 69–6 4.7b,4.3
DJA VI 24 18 47 16.1–.90 6S–7.0 146E–8.0 53–6 5.0b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 25 20 34 16.7–1.4 5.3S–.10 147.4E–.20 170 3.3b 8 4-145
ISCJB VI 25 20 34 15.4–1.5 5.30S–.10 147.4E–.20 170 3.7b **¶17206941**
IDC VI 25 20 34 19.0–2.2 5.44S 147.28E 195–18 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.3km s-min=13.3km az=174.8.
IDC Error ellipse: s-maj=28.9km s-min=20.8km az=83.0.
ISC VI 25 21 45 11.6–1.6 5.8S–.10 146.5E–.30 78 3.5b 8 4-145
IDC VI 25 21 45 09.9–5.9 5.71S 146.33E 48–72 3.6,3.6L **¶17206944**
ISCJB VI 25 21 45 10.3–1.8 5.8S–.10 146.5E–.20 78 3.2b,3.6L
ISC Event type ke.
ISCJB Event type ke.
IDC VI 26 04 35 50.3–3.0 6.52S 148.00E 0 3.8,3.7
¶17206959

IDC Error ellipse: s-maj=75.4km s-min=32.3km az=101.0.
IDC VI 27 01 39 55.0–4.1 6.55S 147.56E 0 3.4,3.2
¶17207036

IDC Error ellipse: s-maj=160.3km s-min=47.0km az=115.0.
IDC VI 27 04 11 36.1–6.9 5.45S 147.70E 128–54 4.2,4.0
¶17207044

IDC Error ellipse: s-maj=56.7km s-min=29.5km az=1.0.
ISC VI 28 14 54 30.5–.72 6.44S–.07 147.3E–.20 50 4.0b,3.6s 19 3-122
ISCJB VI 28 14 54 28.6–.67 6.50S–.07 147.3E–.10 50 4.0b,3.5s **¶17207145**
IDC VI 28 14 54 32.5–2.8 6.63S 147.28E 76–25 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=9.8km az=4.9.
IDC Error ellipse: s-maj=27.3km s-min=14.2km az=90.0.
IDC VI 30 03 59 17.1–8.0 5.71S 146.24E 112–79 3.5,3.3
¶17207230

IDC Error ellipse: s-maj=76.2km s-min=32.7km az=139.0.
ISC VI 30 20 03 12.8–.87 6.47S–.08 147.3E–.20 63 3.8b 17 3-146
IDC VI 30 20 03 14.9–1.7 6.61S 147.45E 85–15 4.1,4.0 **¶17207272**
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=11.2km az=105.0.

SEISMIC REGION 17.
Caroline Islands to Guam.

(209) Western Caroline Islands.

ISC I 03 13 17 57.7–.74 10.7N–.10 139.7E–.10 35 3.8b,2.9s 13 6-88
ISCJB I 03 13 17 55.4–.59 10.66N–.09 139.71E–.08 33 3.7b,3.0s **¶17189326**
IDC I 03 13 17 59.2–3.8 10.68N 139.77E 52–39 4.5L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=9.2km az=142.8.
IDC Error ellipse: s-maj=24.5km s-min=14.2km az=96.0.
ISC I 07 13 22 39.8–1.0 9.6N–.20 138.4E–.20 35 3.7b,3.4s 9 8-89
IDC I 07 13 22 34.5–.99 9.57N 138.42E 0 3.9,3.7 **¶17189642**
ISCJB I 07 13 22 37.7–.82 9.5N–.10 138.3E–.20 33 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC I 25 21 02 00.1–6.0 7.96N 137.91E 0 3.6,3.5
¶17190985

IDC Error ellipse: s-maj=270.4km s-min=27.4km az=76.0.
ISC I 31 02 50 46.7–.49 8.44N–.08 141.1E–.10 35 4.2b,3.1s 42 14-150
IDC I 31 02 50 41.2–.54 8.48N 141.17E 0 4.3,4.2 **¶16022426**
ISCJB I 31 02 50 44.5–.41 8.42N–.07 141.16E–.09 33 4.2b,3.1s
NEIC I 31 02 50 46.7–.32 8.45N 141.10E 35 4.3b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=13.2km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=9.0km az=157.8.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=7.9km az=73.0.
IDC II 03 08 58 44.4–1.1 11.29N 141.28E 0 3.6,3.4
¶17191587

IDC Error ellipse: s-maj=47.4km s-min=21.9km az=92.0.
IDC II 05 05 40 35.6–.97 11.32N 140.78E 0 3.7,3.6
¶17191716

IDC Error ellipse: s-maj=43.2km s-min=20.3km az=90.0.
ISC II 27 17 56 09.3–.73 9.5N–.10 135.6E–.20 35 4.1b 26 10-129
IDC II 27 17 56 03.9–.79 9.61N 135.75E 0 4.3,4.2b **¶16399120**
NEIC II 27 17 56 05.4–.57 9.64N 135.77E 10 4.0b,4.2b
ISCJB II 27 17 56 07.2–.62 9.55N–.08 135.6E–.20 33 4.1b,3.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 31 07 06 29.9–.68 10.93N–.08 140.00E–.09 48–6 4.2b 26 5-92
ISCJB III 31 07 06 25.3–5.4 10.89N–.07 139.93E–.10 24–40 4.2b **¶16475919**
NEIC III 31 07 06 28.6–.36 10.91N 139.86E 35 4.3b
IDC III 31 07 06 29.8–.66 10.91N 140.05E 48–6 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=11.6km az=12.7.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.6km az=86.0.
IDC Error ellipse: s-maj=16.3km s-min=13.1km az=111.0.
ISC IV 08 23 45 13.2–1.0 11.7N–.10 139.0E–.20 35 3.9b,3.1s 10 18-90
IDC IV 08 23 45 08.0–.93 11.72N 139.05E 0 4.1,3.9b **¶17200292**
ISCJB IV 08 23 45 11.2–.81 11.7N–.10 139.0E–.20 33 3.9b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC V 06 17 53 44.3–8.2 11.80N 141.36E 211–81 4.1,3.6
¶17202941

IDC Error ellipse: s-maj=32.8km s-min=15.2km az=85.0.
IDC V 07 10 06 59.4–1.2 11.08N 138.98E 0 3.8,3.5
¶17202981

IDC Error ellipse: s-maj=58.8km s-min=28.2km az=96.0.
ISC V 13 07 11 31.9–.81 10.3N–.10 140.9E–.10 40 3.7b 9 5-88
ISCJB V 13 07 11 29.8–.68 10.29N–.09 141.0E–.10 40 3.7b,3.2s **¶17203530**
IDC V 13 07 11 32.8–3.0 10.28N 141.05E 53–32 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=8.8km az=37.8.
IDC Error ellipse: s-maj=30.5km s-min=14.5km az=114.0.
IDC VI 27 06 29 31.4–1.1 8.99N 138.44E 0 3.8,3.7b
¶17207056

IDC Error ellipse: s-maj=42.6km s-min=19.2km az=84.0.

(210) South of Mariana Islands.

IDC I 03 12 33 59.9–5.5 12.72N 144.05E 60–73 3.2,3.2
¶17189324

IDC Error ellipse: s-maj=96.4km s-min=26.8km az=96.0.
ISC I 04 12 58 50.2–.92 12.5N–.20 143.9E–.20 27 3.5b 10 1-92
IDC I 04 12 58 46.2–.86 12.49N 143.84E 0 3.7,3.5 **¶17189422**
ISCJB I 04 12 58 48.7–.71 12.5N–.10 143.7E–.10 27 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC I 04 13 04 07.2–1.3 12.14N 144.82E 0 4.1s,4.1
¶17189424

IDC Error ellipse: s-maj=99.4km s-min=17.7km az=100.0.
IDC I 06 09 44 16.0–1.3 13.07N 143.37E 205–15 3.6,3.3
¶17189584

IDC Error ellipse: s-maj=37.8km s-min=13.9km az=107.0.
ISC I 07 23 21 22.7–.48 12.94N–.08 143.24E–.08 150 4.3b 46 2-157
ISCJB I 07 23 21 20.9–.42 12.90N–.06 143.24E–.06 150 4.1b **¶16017956**
NEIC I 07 23 21 22.1–.91 12.91N 143.21E 143–8 4.4b
IDC I 07 23 21 22.2–1.1 12.93N 143.25E 143–10 4.4,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=8.6km az=164.7.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.3km az=73.0.
IDC Error ellipse: s-maj=14.9km s-min=9.9km az=72.0.
ISC I 10 11 24 32.1–1.0 12.3N–.10 144.2E–.20 27 3.7b,3.1s 10 1-84
IDC I 10 11 24 27.9–.92 12.29N 144.22E 0 3.9,3.7b **¶17189846**
ISCJB I 10 11 24 30.4–.77 12.3N–.10 144.1E–.20 27 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC I 11 19 40 23.4–1.1 12.7N–.10 145.0E–.20 38 3.6b 9 1-144
IDC I 11 19 40 17.9–1.0 12.74N 145.05E 0 3.9,3.6 **¶17189941**
ISCJB I 11 19 40 21.7–.91 12.66N–.07 145.0E–.20 38 3.6b,2.7s
ISC Event type ke.
ISCJB Event type ke.
ISC I 16 21 17 51.4–.74 12.5N–.10 143.6E–.10 27 3.8b 13 2-89
IDC I 16 21 17 47.4–.76 12.52N 143.55E 0 3.9,3.8 **¶17190351**
ISCJB I 16 21 17 49.8–.60 12.46N–.10 143.39E–.10 27 3.7b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC I 24 04 11 06.1–.79 11.9N–.10 143.7E–.20 26 4.0b 11 23-98
IDC I 24 04 11 02.0–.70 11.91N 143.79E 0 4.2,4.0 **¶17190856**
ISCJB I 24 04 11 04.4–.60 11.9N–.10 143.7E–.20 26 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 24 04 39 12.5–.42 11.92N–.06 143.57E–.05 25 4.9b,4.1s 188 2-149
IDC I 24 04 39 08.0–.49 11.95N 143.66E 0 4.7L,4.6 **¶15959506**
ISCJB I 24 04 39 11.4–.25 11.90N–.05 143.38E–.04 25 4.8b,4.2s
MOS I 24 04 39 11.6–1.4 11.91N 143.42E 33 4.9b,4.0s
NEIC I 24 04 39 14.4–.35 11.90N 143.38E 35 5.1b,4.0s
BJI I 24 04 39 14.6 12.70N 143.50E 15 5.0b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=11.8km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.6km az=10.0.
MOS Error ellipse: s-maj=12.2km s-min=6.8km az=101.7.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=9.9km az=70.0.
IDC I 24 04 46 09.6–1.7 12.17N 143.04E 0 4.0,3.6
¶17190859

IDC Error ellipse: s-maj=173.3km s-min=29.2km az=111.0.
ISC I 26 05 57 22.9–.93 12.4N–.20 144.9E–.20 38 3.6b 11 26-92
IDC I 26 05 57 17.2–.88 12.46N 144.86E 0 3.8,3.7 **¶17191010**
ISCJB I 26 05 57 21.2–.77 12.4N–.10 144.7E–.20 38 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 16 18 22.9–.92 13.8N–.10 147.0E–.10 35 3.9b 19 2-90
IDC I 27 16 18 17.7–.88 13.78N 147.13E 0 4.2s,4.2 **¶16135956**
ISCJB I 27 16 18 20.7–.62 13.77N–.09 147.07E–.07 33 4.2s,3.8b
NEIC I 27 16 18 22.9–.55 13.76N 146.99E 35 4.1b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=18.3km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=9.5km az=153.1.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=10.6km az=107.0.
ISC I 30 02 45 06.3–.67 12.19N–.09 141.5E–.20 51 4.4b 35 23-151
NEIC I 30 02 45 00.7–.39 12.23N 141.55E 10 4.5b **¶17191283**
ISCJB I 30 02 45 04.3–.56 12.19N–.07 141.5E–.10 51 4.3b,3.0s
IDC I 30 02 45 09.1–7.4 12.22N 141.53E 75–67 4.2,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.4km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=9.4km az=4.4.
IDC Error ellipse: s-maj=25.6km s-min=13.1km az=80.0.
ISC II 03 23 31 18.0–.85 13.1N–.10 143.7E–.10 138 3.7b 9 1-84
ISCJB II 03 23 31 16.3–.70 13.1N–.10 143.6E–.10 138 3.6b **¶17191626**
IDC II 03 23 31 19.1–1.0 13.13N 143.94E 154–15 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=12.5km az=143.4.
IDC Error ellipse: s-maj=40.5km s-min=14.7km az=88.0.
IDC II 06 17 24 39.9–1.2 12.96N 144.03E 157–14 3.3,3.1
¶17191807

IDC Error ellipse: s-maj=40.3km s-min=16.8km az=94.0.
IDC II 09 01 22 18.8–3.4 12.86N 144.45E 0 3.4,3.3
¶17191923

IDC Error ellipse: s-maj=76.1km s-min=21.7km az=143.0.
ISC II 12 03 19 47.2–1.0 12.2N–.20 141.8E–.20 100 3.6b 7 3-71
ISCJB II 12 03 19 45.4–.81 12.2N–.10 141.7E–.10 100 3.5b **¶17192101**
IDC II 12 03 19 48.5–3.6 12.18N 141.85E 114–38 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=16.9km az=28.3.
IDC Error ellipse: s-maj=40.3km s-min=17.1km az=93.0.
IDC II 13 20 22 12.3–1.0 13.80N 146.34E 0 3.6,3.5
¶17192170

IDC Error ellipse: s-maj=28.0km s-min=20.1km az=118.0.
ISC II 15 13 38 41.8–2.2 12.0N–.40 143.9E–.40 26 4.4b 8 2-92
IDC II 15 13 38 36.3–2.6 11.78N 143.93E 0 4.4,4.3L **¶17192305**
ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=30.5km az=144.0.
ISC II 16 09 37 27.1–.56 12.27N–.08 143.7E–.10 27 4.2b,3.2s 24 2-149
IDC II 16 09 37 23.1–.57 12.27N 143.69E 0 4.2,4.1b **¶16362983**
NEIC II 16 09 37 24.6–.31 12.24N 143.66E 10 4.3b,4.1b
ISCJB II 16 09 37 25.3–.42 12.21N–.06 143.65E–.09 27 4.1b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 23 16 44 27.9–.96 13.2N–.20 143.8E–.20 138 3.4b 8 1-88
ISCJB II 23 16 44 26.5–.81 13.2N–.10 143.7E–.10 138 3.3b **¶17192751**
IDC II 23 16 44 28.6–1.3 13.15N 143.93E 146–12 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.3km s-min=13.0km az=144.5.
IDC Error ellipse: s-maj=44.2km s-min=18.3km az=111.0.
ISC II 24 23 06 33.9–.68 13.4N–.10 147.93E–.09 35 4.4b 30 3-146
IDC II 24 23 06 28.5–.82 13.38N 148.05E 0 4.6L,4.3 **¶16363016**
NEIC II 24 23 06 30.1–.31 13.37N 147.99E 10 4.5b,4.3
ISCJB II 24 23 06 31.8–.48 13.38N–.07 147.94E–.06 33 4.3b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC II 25 07 21 17.7–.93 12.4N–.10 144.6E–.30 30 3.7b 10 1-144
IDC II 25 07 21 13.2–.87 12.32N 144.64E 0 3.9,3.7 **¶17192822**
ISCJB II 25 07 21 16.2–.80 12.29N–.10 144.4E–.20 30 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 27 15 36 10.9–.95 13.05N 143.51E 214–12 3.6,3.3
¶17192959
IDC Error ellipse: s-maj=27.6km s-min=13.9km az=91.0.
ISC II 28 06 21 02.9–1.0 12.0N–.20 143.8E–.20 25 3.6b 8 2-89
IDC II 28 06 20 59.0–1.1 11.94N 143.64E 0 4.2L,3.9 **¶17192982**
ISCJB II 28 06 21 01.1–.98 11.9N–.10 143.6E–.20 25 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 01 14 05 59.0–.54 11.98N–.05 142.22E–.05 44–4 5.0b,4.0s 365 3-150
BJI III 01 14 05 53.6 11.64N 142.58E 40 5.1b,5.0b **¶16168973**
ISCJB III 01 14 05 56.9–.86 12.02N–.03 142.17E–.03 37–7 4.9b,4.0s
MOS III 01 14 05 56.6–1.0 12.02N 142.09E 38 5.2b,4.0s
NEIC III 01 14 05 59.4–.90 12.03N 142.21E 46–8 5.1b,4.0s
GCMT III 01 14 05 59.3–.50 11.83N 142.01E 34–1 4.9W,4.0s
IDC III 01 14 06 00.7–2.0 12.04N 142.26E 60–18 4.6,4.3
DJA III 01 14 06 00.6–.90 12N–5.0 142E–6.0 53–12 5.4b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s54,c77;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.40±.21 $M_{\theta\theta}$-1.98±.13; $M_{\phi\phi}$-0.42±.14; $M_{r\theta}$0.77±.12; $M_{\theta\phi}$-0.77±.10; $M_{\phi r}$-0.01±.18; Best double couple: NP1:ϕ_s74.00000°,δ54.00000°,λ98.00000°. NP2:ϕ_s241.00000°,δ37.00000°,λ79.00000°. Principal axes: T 2.5390,Plg79.0000°,Azm16.0000°; N -0.1390,Plg6.0000°,Azm250.0000° ; P -2.4000,Plg8.0000°,Azm159.0000° $M_0$2.46900×10^{16}
ISC III 02 17 42 09.9–1.0 11.8N–.20 143.4E–.20 25 3.6b 7 2-89
IDC III 02 17 42 06.0–.98 11.82N 143.42E 0 3.9,3.9L **¶17193152**
ISCJB III 02 17 42 08.1–.90 11.8N–.10 143.4E–.20 25 3.6b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 05 19 06 19.4–.00 12.2N–.20 143.9E–.20 26 3.9b 9 2-92
IDC III 05 19 06 15.3–1.0 12.17N 143.92E 0 3.9,3.7b **¶17193305**
ISCJB III 05 19 06 17.9–.94 12.1N–.10 143.8E–.20 26 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 15 49 34.3–.74 13.0N–.10 143.4E–.10 150 3.9b 13 2-149
ISCJB III 13 15 49 32.7–.62 13.0N–.10 143.35E–.10 150 3.8b **¶17194911**
IDC III 13 15 49 34.3–1.4 13.01N 143.39E 149–14 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=11.9km az=147.1.
IDC Error ellipse: s-maj=25.5km s-min=13.4km az=91.0.
ISC III 16 15 54 34.5–.84 12.2N–.10 144.1E–.20 26 4.0b 12 2-92
IDC III 16 15 54 31.0–.79 12.25N 144.01E 0 4.2,4.0 **¶16427629**
ISCJB III 16 15 54 33.3–.59 12.2N–.10 143.9E–.20 26 4.0b,4.0
NEIC III 16 15 54 36.2–1.9 12.23N 144.04E 35–18 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=39.6km s-min=15.6km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=27.9km s-min=8.5km az=27.4.
NEIC Event type se. Error ellipse: s-maj=30.1km s-min=10.5km az=103.0.
IDC III 25 10 47 36.9–1.3 11.43N 142.57E 0 4.1,3.9
¶17198486
IDC Error ellipse: s-maj=49.4km s-min=24.2km az=103.0.
ISC III 29 02 02 59.1–.34 12.41N–.04 144.13E–.05 27 4.7b,3.8s 131 1-149
IDC III 29 02 02 54.6–.61 12.40N 144.17E 0 4.4,4.3b **¶16392132**
BJI III 29 02 02 55.6 12.12N 144.65E 45 5.0b,4.6b
ISCJB III 29 02 02 57.4–.21 12.39N–.03 144.13E–.04 27 4.8b,3.8s
NEIC III 29 02 03 01.6–.70 12.43N 144.16E 47–6 4.9b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=13.8km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=8.2.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.7km az=102.0.
ISC III 29 23 33 48.6–1.1 12.0N–.10 144.0E–.20 26 4.0b 12 2-89
IDC III 29 23 33 45.5–.77 11.96N 143.88E 0 4.2,4.0 **¶16475737**
ISCJB III 29 23 33 47.8–.55 11.92N–.08 143.8E–.10 26 4.0b,3.2s
NEIC III 29 23 33 50.6–.35 11.95N 143.87E 35 4.4b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=16.6km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=8.4km az=32.8.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.5km az=109.0.
IDC III 30 07 58 06.7–.84 12.88N 144.04E 83–13 3.7,3.5
¶17199177
IDC Error ellipse: s-maj=21.2km s-min=10.3km az=92.0.
ISC III 31 21 34 23.6–1.0 12.1N–.20 143.7E–.20 26 3.7b 9 2-92
IDC III 31 21 34 19.5–1.1 12.13N 143.76E 0 3.9,3.7b **¶17199356**
ISCJB III 31 21 34 22.1–.93 12.1N–.10 143.6E–.20 26 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 11 31 19.6–1.1 12.5N–.20 142.0E–.10 27 3.5b 7 3-85
IDC IV 02 11 31 31.4–2.7 12.45N 142.41E 145–27 3.5,3.3 **¶17199520**
ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=20.7km az=105.0.
IDC IV 04 11 13 37.6–1.9 12.73N 145.27E 0 3.6,3.3
¶17199763
IDC Error ellipse: s-maj=315.8km s-min=29.3km az=111.0.
ISC IV 05 20 58 03.0–.91 13.2N–.10 143.8E–.10 138 3.6b 11 1-84
ISCJB IV 05 20 58 01.5–.71 13.2N–.10 143.71E–.10 138 3.5b **¶17199927**
IDC IV 05 20 58 03.6–.90 13.21N 143.93E 148–12 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=12.8km az=161.9.
IDC Error ellipse: s-maj=33.1km s-min=14.2km az=90.0.
IDC IV 10 14 34 14.6–2.5 13.35N 143.67E 231–85 3.6s,3.6
¶17200471
IDC Error ellipse: s-maj=221.8km s-min=20.0km az=83.0.
ISC IV 10 18 05 38.8–.93 12.5N–.10 144.1E–.20 27 3.4b 10 1-88
IDC IV 10 18 05 34.7–.88 12.48N 144.08E 0 3.6,3.5 **¶17200487**
ISCJB IV 10 18 05 37.3–.74 12.5N–.10 144.0E–.10 27 3.3b,2.5s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 10 22 01 06.2–.76 13.23N 143.39E 420–25 3.7,3.1
¶17200506
IDC Error ellipse: s-maj=67.4km s-min=18.3km az=76.0.
IDC IV 11 06 55 39.2–1.1 12.50N 144.23E 0 3.9,3.7
¶17200533
IDC Error ellipse: s-maj=37.5km s-min=29.6km az=102.0.
ISC IV 16 17 30 52.3–.60 12.04N–.04 143.08E–.05 28–3 4.9b,3.9s 343 2-154
BJI IV 16 17 30 46.0 11.61N 143.40E 27 4.9b,4.7b **¶16440457**
IDC IV 16 17 30 48.2–.39 12.02N 143.01E 0 5.1L,4.7
MOS IV 16 17 30 51.6–1.0 12.01N 142.92E 37 5.1b,4.7
NEIC IV 16 17 30 51.8–1.9 12.01N 143.01E 25–13 5.0b,4.7
GCMT IV 16 17 30 51.8–.40 11.93N 142.85E 25–1 4.8W,4.7
ISCJB IV 16 17 30 51.6–.17 12.02N–.03 142.98E–.03 33 4.8b,3.9s
DJA IV 16 17 30 56.4–.80 12N–5.0 143E–9.0 72–12 5.2b,4.9
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c27; s56,c81;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.95±.16 $M_{\theta\theta}$-1.84±.10; $M_{\phi\phi}$-0.11±.10; $M_{r\theta}$0.63±.17; $M_{\theta\phi}$0.15±.07; $M_{\phi r}$0.71±.26; Best double couple: NP1:ϕ_s77.00000°,δ56.00000°,λ70.00000°. NP2:ϕ_s290.00000°,δ39.00000°,λ117.00000°. Principal axes: T 2.2710,Plg71.0000°,Azm298.0000°; N -0.3340,Plg17.0000°,Azm88.0000° ; P -1.9420,Plg9.0000°,Azm181.0000° $M_0$2.10600×10^{16}
ISCJB Event type se.
ISC IV 16 21 18 24.2–.97 13.0N–.20 143.7E–.10 150 3.6b 7 1-61
ISCJB IV 16 21 18 22.8–.81 13.0N–.10 143.7E–.10 150 3.5b **¶17201260**
IDC IV 16 21 18 23.6–2.5 13.03N 143.54E 136–44 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=13.0km az=153.1.
IDC Error ellipse: s-maj=65.9km s-min=17.7km az=81.0.
IDC IV 19 14 40 14.6–.87 12.63N 143.64E 0 4.0,3.7
¶17201510
IDC Error ellipse: s-maj=28.5km s-min=18.8km az=118.0.
ISC IV 23 09 14 05.4–.57 13.43N–.09 147.53E–.09 35 4.4b,3.3s 31 3-145
IDC IV 23 09 14 00.2–.58 13.46N 147.59E 0 5.1L,4.4 **¶16577868**
ISCJB IV 23 09 14 03.4–.44 13.45N–.07 147.53E–.06 33 4.4b,3.3s
NEIC IV 23 09 14 05.4–.38 13.44N 147.54E 35 4.8b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=12.5km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=8.9km az=160.6.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.3km az=95.0.
ISC IV 25 08 16 45.9–.60 12.4N–.10 141.6E–.10 33 4.3b,3.3s 23 3-151
ISCJB IV 25 08 16 44.3–.50 12.44N–.09 141.6E–.10 33 4.3b,3.3s **¶16649378**
IDC IV 25 08 16 46.0–6.2 12.48N 141.57E 33–47 4.2,4.2
NEIC IV 25 08 16 46.4–.33 12.46N 141.58E 35 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=12.4km az=28.0.
IDC Error ellipse: s-maj=23.2km s-min=15.1km az=95.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.8km az=108.0.
ISC IV 26 17 40 48.7–1.1 12.5N–.10 144.4E–.20 30 3.5b,3.1s 8 1-84
ISCJB IV 26 17 40 47.5–.87 12.5N–.10 144.2E–.20 30 3.5b,3.3s **¶17202171**
IDC IV 26 17 40 51.9–1.7 12.53N 144.48E 63–20 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.1km s-min=9.6km az=31.0.
IDC Error ellipse: s-maj=37.1km s-min=17.4km az=93.0.
ISC IV 26 19 30 36.2–.82 13.5N–.20 143.88E–.09 50 3.4b 10 1-149
ISCJB IV 26 19 30 34.3–.73 13.5N–.10 143.83E–.08 50 3.4b,2.6s **¶17202181**
IDC IV 26 19 30 37.7–1.3 13.45N 144.13E 70–12 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=10.2km az=170.0.
IDC Error ellipse: s-maj=28.0km s-min=20.4km az=126.0.
ISC IV 27 07 52 04.0–.87 13.0N–.10 145.6E–.10 43 3.8b 12 1-145
ISCJB IV 27 07 52 02.4–.77 12.9N–.10 145.7E–.10 43 4.0b,2.9s **¶17202216**
IDC IV 27 07 52 03.9–3.6 12.98N 145.66E 41–32 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=10.9km az=136.7.
IDC Error ellipse: s-maj=34.4km s-min=17.5km az=91.0.
ISC V 01 15 36 53.1–1.1 12.0N–.10 144.5E–.20 29 3.5b 11 2-98
ISCJB V 01 15 36 51.8–.72 11.96N–.09 144.3E–.20 29 4.4s,3.6b **¶17202530**
IDC V 01 15 36 55.3–2.3 12.03N 144.36E 44–20 4.4s,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.2km s-min=9.6km az=23.3.
IDC Error ellipse: s-maj=27.4km s-min=15.1km az=109.0.
ISC V 03 05 47 02.9–.58 12.55N–.07 144.44E–.10 30 4.5b,3.9s 65 1-148
ISCJB V 03 05 47 01.4–.36 12.56N–.05 144.32E–.07 30 4.4b,3.8s **¶16489799**
NEIC V 03 05 47 04.4–1.7 12.59N 144.35E 40–15 4.7b,3.8s
IDC V 03 05 47 04.4–1.9 12.65N 144.41E 41–18 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=19.6.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.8km az=100.0.
IDC Error ellipse: s-maj=20.8km s-min=12.5km az=92.0.
ISC V 06 03 05 03.3–.63 12.4N–.10 141.8E–.10 33 4.4b,3.3s 25 3-151
ISCJB V 06 03 05 01.6–.63 12.38N–.07 141.8E–.20 33 4.3b,3.3s **¶16578023**
NEIC V 06 03 05 09.1–1.2 12.31N 141.68E 85–13 4.2b,3.3s
IDC V 06 03 05 10.8–3.3 12.34N 141.82E 101–31 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.4km s-min=10.3km az=0.5.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=7.4km az=103.0.
IDC Error ellipse: s-maj=26.5km s-min=14.2km az=90.0.
IDC V 06 13 44 30.5–1.3 12.47N 144.00E 0 3.9,3.6
¶17202924
IDC Error ellipse: s-maj=107.2km s-min=16.6km az=117.0.
IDC V 06 21 51 05.3–1.2 12.42N 141.80E 0 4.1,3.9
¶17202955
IDC Error ellipse: s-maj=43.8km s-min=26.9km az=92.0.
ISC V 09 10 00 52.3–1.1 12.67N–.10 144.9E–.40 35 3.6b,3.0s 7 1-148
IDC V 09 10 00 47.4–.94 12.56N 145.33E 0 3.9,3.6 **¶17203118**
ISCJB V 09 10 00 50.6–.96 12.61N–.08 145.1E–.30 33 3.6b,3.0s
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 22 07 46.7–1.4 13.07N 143.50E 217–18 3.9,3.6
¶17203326
IDC Error ellipse: s-maj=49.9km s-min=16.8km az=100.0.
ISC V 12 21 15 39.1–.43 12.35N–.07 144.10E–.08 27 4.8b,4.0s 137 1-149
IDC V 12 21 15 34.9–.48 12.37N 144.06E 0 4.5,4.4 **¶16507990**
ISCJB V 12 21 15 37.4–.31 12.35N–.05 144.02E–.05 27 4.7b,4.0s
MOS V 12 21 15 38.2–1.0 12.36N 143.94E 33 5.1b,4.0s
NEIC V 12 21 15 39.8–2.8 12.37N 144.01E 33–19 4.9b,4.0s
DJA V 12 21 15 58.3–4.6 12N–17 144E–30 205–43 5.5b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 12 22 07 27.9–.81 12.2N–.10 144.1E–.20 26 4.0b 20 2-135
IDC V 12 22 07 24.1–.90 12.21N 144.03E 0 4.1,3.9 **¶16577284**
ISCJB V 12 22 07 26.5–.61 12.16N–.09 144.0E–.10 26 4.0b,3.9
NEIC V 12 22 07 29.2–1.9 12.19N 144.13E 36–16 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=17.3km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=9.0km az=36.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=13.5km az=113.0.
ISC V 12 22 22 08.8–.53 12.38N–.03 144.14E–.03 20–2 5.3b,5.2s 883 1-173
ISCJB V 12 22 22 05.5–.85 12.41N–.02 143.96E–.02 3–5 5.3b,5.2s **¶16873146**
BJI V 12 22 22 05.0 12.32N 144.15E 9 5.3b,5.3s
IDC V 12 22 22 06.9–1.6 12.33N 144.07E 10–9 5.0,5.0
MOS V 12 22 22 08.5–.97 12.34N 144.08E 33 5.6b,5.1s
GCMT V 12 22 22 08.0–.10 12.19N 143.98E 18–0 5.4W,5.1s
NEIC V 12 22 22 08.0–.61 12.37N 143.97E 12–3 5.4b,5.2s
DJA V 12 22 22 12.9–.60 12N–3.0 144E–4.0 43–7 6.2,5.9b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c186; s108,c212;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.38±.03 $M_{\theta\theta}$-1.10±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$0.35±.04; $M_{\theta\phi}$-1.02±.02; $M_{\phi r}$0.61±.05; Best double couple: NP1:ϕ_s43.00000°,δ57.00000°,λ73.00000°. NP2:ϕ_s252.00000° ,δ36.00000°,λ114.00000°. Principal axes: T 1.5800,Plg72.0000°,Azm272.0000° ; N 0.3370,Plg14.0000°,Azm52.0000°; P -1.9110,Plg11.0000°,Azm145.0000° $M_0$1.74500×10^{17}
NEIC Event type fe. Felt at Merizo.
IDC V 12 22 31 49.1–1.1 12.33N 144.50E 0 3.9,3.7
¶17203510
IDC Error ellipse: s-maj=51.7km s-min=26.1km az=98.0.
ISC V 12 23 30 43.0–.81 12.2N–.10 144.1E–.20 26 4.1b 20 2-149
IDC V 12 23 30 39.2–.79 12.21N 144.11E 0 4.1,3.9 **¶16577285**
ISCJB V 12 23 30 41.3–.65 12.17N–.10 144.0E–.10 26 4.0b,3.9
NEIC V 12 23 30 44.3–.54 12.23N 144.05E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=28.4km s-min=17.0km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=9.4km az=34.4.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=12.5km az=119.0.
ISC V 13 00 20 36.2–.41 12.57N–.06 143.97E–.06 27 4.7b,4.6s 107 1-149
ISCJB V 13 00 20 34.5–.27 12.52N–.04 143.97E–.04 27 4.7s,4.5b **¶16577290**
NEIC V 13 00 20 37.1–.22 12.53N 143.97E 35 4.8b,4.5b
IDC V 13 00 20 38.4–2.0 12.37N 144.11E 56–18 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=6.1km az=28.9.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.3km az=116.0.
IDC Error ellipse: s-maj=19.3km s-min=14.6km az=105.0.
ISC V 13 00 25 45.7–.62 12.32N–.04 144.25E–.04 17–3 5.0b,4.8s 406 1-155
ISCJB V 13 00 25 43.9–.16 12.32N–.03 144.07E–.03 10 4.9b,4.8s **¶16507995**
IDC V 13 00 25 43.6–.49 12.36N 144.05E 0 4.8,4.7

MOS V 13 00 25 46.8–1.2 12.30N 144.02E 33 5.1b,4.9s
BJI V 13 00 25 46.2 12.38N 144.19E 30 5.2b,5.0s
NEIC V 13 00 25 48.8–.18 12.31N 144.13E 35 5.1b,5.0s
GCMT V 13 00 25 48.8–.20 12.24N 143.95E 19–0 5.2W,5.0s
DJA V 13 00 25 50.3–1.6 12N–5.0 144E–9.0 39–15 6.3,5.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c116; s97,c163;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.27±.20 $M_{\theta\theta}$-4.15±.14; $M_{\phi\phi}$-2.12±.15; $M_{r\theta}$-0.75±.28; $M_{\theta\phi}$-4.25±.11; $M_{\phi r}$2.33±.32; Best double couple: NP1:ϕ_s32.00000°,δ52.00000°,λ63.00000°. NP2:ϕ_s252.00000°,δ45.00000°,λ120.00000°. Principal axes: T 7.2000,Plg69.0000°,Azm240.0000°; N 0.3600,Plg21.0000°,Azm49.0000° ; P -7.5600,Plg4.0000°,Azm141.0000° $M_0$7.38000×10^{16}
ISC V 13 01 04 39.2–.52 12.43N–.03 144.14E–.03 23–3 5.5b,5.2s 1007 1-173
BJI V 13 01 04 32.0 12.17N 144.45E 10 5.4b,5.4s **¶16507996**
ISCJB V 13 01 04 35.7–.69 12.46N–.02 143.98E–.02 7–4 5.4b,5.2s
NEIC V 13 01 04 36.8–2.1 12.43N 143.99E 6–13 5.6b,5.5W
GCMT V 13 01 04 36.8–.10 12.23N 144.08E 19–0 5.5W,5.5W
IDC V 13 01 04 37.4–1.5 12.45N 143.97E 10–8 5.1,5.1
MOS V 13 01 04 38.6–.89 12.38N 144.05E 33 5.7b,5.2s
NEIC V 13 01 04 39.0–.00 12.45N 144.60E 18 5.7b,5.2s
DJA V 13 01 04 44.0–.50 13N–4.0 144E–5.0 67–8 7.0,6.0b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Santa Rita. Also felt at Apra Harbor, Barrigada, Hagatna Heights, Mangilao, Talofofo and Yigo.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s98,c185; s115,c256;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46±.03 $M_{\theta\theta}$-0.82±.02; $M_{\phi\phi}$-0.64±.02; $M_{r\theta}$0.53±.05; $M_{\theta\phi}$-1.17±.02; $M_{\phi r}$0.87±.05; Best double couple: NP1:ϕ_s37.00000°,δ61.00000°,λ78.00000°. NP2:ϕ_s240.00000° ,δ31.00000°,λ110.00000°. Principal axes: T 1.7770,Plg71.0000°,Azm280.0000° ; N 0.3930,Plg10.0000°,Azm43.0000°; P -2.1700,Plg15.0000°,Azm136.0000° $M_0$1.97400×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30 $M_{\theta\theta}$-0.70 $M_{\phi\phi}$-0.60 $M_{r\theta}$1.30 $M_{\theta\phi}$-1.30 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s79.00000° ,δ65.00000°,λ129.00000°. NP2:ϕ_s196.00000°,δ45.00000°,λ36.00000°. Principal axes: T 2.3000,Plg52.0000°,Azm36.0000°; N -0.3000,Plg34.0000°,Azm240.0000° ; P -2.0000,Plg11.0000°,Azm142.0000° $M_0$2.00000×10^{17}
ISC V 13 01 07 14.7–.47 12.34N–.07 144.01E–.09 27 4.7b 47 2-145
ISCJB V 13 01 07 13.1–.36 12.29N–.05 143.92E–.07 27 4.6b **¶16580983**
NEIC V 13 01 07 16.0–1.5 12.36N 144.02E 36–14 4.7b
IDC V 13 01 07 19.6–2.0 12.39N 144.13E 64–18 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=6.8km az=21.8.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.4km az=90.0.
IDC Error ellipse: s-maj=29.7km s-min=16.2km az=107.0.
ISC V 13 01 30 46.2–.55 12.34N–.08 144.1E–.10 27 4.4b 41 1-149
IDC V 13 01 30 42.5–.69 12.37N 144.03E 0 4.4,4.2b **¶16580979**
ISCJB V 13 01 30 44.4–.42 12.28N–.06 143.96E–.08 27 4.4b,3.7s
NEIC V 13 01 30 45.1–4.7 12.33N 144.03E 19–29 4.6b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=16.1km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.7km az=30.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.8km az=92.0.
IDC V 13 02 20 59.8–1.1 12.66N 143.82E 0 3.8,3.5
¶17203519
IDC Error ellipse: s-maj=39.3km s-min=17.6km az=123.0.
ISC V 13 03 28 17.4–.51 12.27N–.07 144.14E–.10 27 4.4b 59 1-145
ISCJB V 13 03 28 15.4–.37 12.23N–.05 144.11E–.07 27 4.4b,3.5s **¶16580977**
NEIC V 13 03 28 18.9–1.2 12.29N 144.16E 40–11 4.5b,3.5s
IDC V 13 03 28 20.9–2.1 12.31N 144.20E 55–18 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.5km az=18.4.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.3km az=92.0.
IDC Error ellipse: s-maj=22.3km s-min=15.3km az=109.0.
ISC V 13 04 55 17.5–.93 12.4N–.20 144.0E–.20 27 4.1b 15 1-135
IDC V 13 04 55 13.5–.92 12.43N 144.02E 0 3.9s,3.9 **¶16587330**
ISCJB V 13 04 55 15.9–.72 12.4N–.10 143.9E–.10 27 4.0s,3.8b
NEIC V 13 04 55 18.9–1.8 12.44N 144.12E 38–18 4.2b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=40.4km s-min=16.8km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=23.8km s-min=9.4km az=38.5.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=13.1km az=103.0.
IDC V 13 06 40 24.6–1.1 12.53N 143.57E 0 4.0,3.8b
¶17203527
IDC Error ellipse: s-maj=52.0km s-min=18.7km az=123.0.
ISC V 13 06 46 09.6–.32 12.22N–.05 144.13E–.06 26 4.8b,4.0s 168 2-155
IDC V 13 06 46 05.2–.47 12.34N 144.05E 0 4.5,4.4 **¶16508007**
ISCJB V 13 06 46 07.9–.21 12.25N–.03 144.02E–.04 26 4.7b,4.1s
MOS V 13 06 46 08.6–1.1 12.26N 143.97E 33 5.1b,4.1s
NEIC V 13 06 46 10.7–3.0 12.28N 144.06E 34–21 4.9b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=12.0km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=7.5.
MOS Error ellipse: s-maj=13.0km s-min=7.5km az=92.3.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.2km az=97.0.
ISC V 13 08 06 30.7–1.1 12.4N–.20 144.1E–.30 27 3.6b 7 1-84
IDC V 13 08 06 34.7–2.0 12.39N 144.24E 64–21 3.6,3.5s **¶17203533**
ISC Event type ke.
IDC Error ellipse: s-maj=48.4km s-min=17.3km az=107.0.
IDC V 14 15 37 29.2–4.0 12.31N 142.04E 150–57 3.7,3.5
¶17203619
IDC Error ellipse: s-maj=55.6km s-min=17.6km az=81.0.
IDC V 20 15 49 55.4–4.2 12.02N 145.51E 0 3.6,3.4
¶17204055
IDC Error ellipse: s-maj=178.0km s-min=23.5km az=81.0.
IDC V 21 13 13 53.1–4.4 12.41N 145.35E 0 3.9,3.8
¶17204137
IDC Error ellipse: s-maj=180.4km s-min=29.9km az=85.0.
ISC V 22 21 21 04.3–.87 12.3N–.10 144.3E–.20 30 4.1b 15 1-148
ISCJB V 22 21 21 02.8–.72 12.28N–.09 144.1E–.10 30 3.9b **¶17204258**
IDC V 22 21 21 05.8–2.7 12.31N 144.22E 40–25 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=9.3km az=28.4.
IDC Error ellipse: s-maj=25.7km s-min=13.9km az=101.0.
ISC V 23 05 16 18.3–1.1 12.2N–.10 144.4E–.20 29 3.8b 8 1-88
IDC V 23 05 16 13.8–1.2 12.19N 144.35E 0 4.1,3.8 **¶17204281**
ISCJB V 23 05 16 16.6–.97 12.2N–.10 144.2E–.20 29 3.8b,3.7s
ISC Event type ke.
ISCJB Event type ke.
IDC V 23 12 16 49.7–6.7 12.27N 141.84E 0 3.7,3.5
¶17204298
IDC Error ellipse: s-maj=261.8km s-min=31.4km az=78.0.
ISC V 25 02 09 04.1–.91 12.2N–.10 144.3E–.20 29 4.2b,3.2s 17 2-148
IDC V 25 02 08 59.7–.85 12.21N 144.25E 0 4.1,3.9b **¶16617322**
ISCJB V 25 02 09 02.7–.77 12.16N–.10 144.1E–.10 29 4.0b,3.2s
NEIC V 25 02 09 05.6–1.5 12.22N 144.32E 42–14 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=35.4km s-min=18.6km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=23.2km s-min=9.3km az=29.7.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=11.0km az=92.0.
ISC V 25 09 05 24.9–1.0 12.3N–.10 144.3E–.30 30 3.6b 10 1-135
IDC V 25 09 05 28.1–2.3 12.33N 144.31E 58–23 3.8s,3.8 **¶17204438**
ISC Event type ke.
IDC Error ellipse: s-maj=40.5km s-min=17.0km az=100.0.
ISC V 26 06 48 13.7–1.1 12.2N–.10 144.4E–.30 29 3.5b 9 1-84
IDC V 26 06 48 16.5–2.4 12.15N 144.37E 53–23 3.5,3.4 **¶17204486**
ISC Event type ke.
IDC Error ellipse: s-maj=39.7km s-min=15.9km az=101.0.
ISC V 27 21 38 55.1–.85 13.0N–.20 143.4E–.10 200 3.8b 13 2-91
ISCJB V 27 21 38 53.9–.67 13.0N–.10 143.31E–.10 200 3.6b **¶17204593**
IDC V 27 21 38 56.3–.66 13.03N 143.73E 222–9 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=13.0km az=162.2.
IDC Error ellipse: s-maj=25.9km s-min=14.3km az=94.0.
IDC V 30 14 09 28.4–1.4 12.17N 144.23E 0 3.8,3.7
¶17204767
IDC Error ellipse: s-maj=112.6km s-min=21.4km az=112.0.
ISC V 30 19 32 33.5–1.2 12.2N–.10 144.5E–.20 29 3.6b 11 1-92
IDC V 30 19 32 36.7–2.2 12.21N 144.46E 57–23 3.6,3.5 **¶17204781**
ISC Event type ke.
IDC Error ellipse: s-maj=36.9km s-min=16.0km az=95.0.
ISC V 30 20 30 13.3–.90 12.2N–.10 144.4E–.20 29 3.9b 15 1-92
ISCJB V 30 20 30 11.7–.69 12.18N–.09 144.2E–.10 29 3.9b,3.1s **¶17204783**
IDC V 30 20 30 16.6–1.9 12.26N 144.40E 59–17 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.6km s-min=9.3km az=26.8.
IDC Error ellipse: s-maj=26.4km s-min=15.0km az=108.0.
ISC V 31 22 03 55.0–.42 12.48N–.06 142.29E–.07 150 4.4b 72 3-150
ISCJB V 31 22 03 53.4–.31 12.48N–.05 142.25E–.06 150 4.3b **¶16702408**
IDC V 31 22 03 54.4–2.0 12.50N 142.22E 141–19 4.4,4.1
NEIC V 31 22 04 01.2–.50 12.43N 142.08E 208–4 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.7km az=177.1.
IDC Error ellipse: s-maj=16.1km s-min=9.0km az=84.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.1km az=74.0.
ISC VI 01 07 10 26.2–.92 12.3N–.20 144.1E–.30 27 3.7b 10 1-92
IDC VI 01 07 10 22.1–.86 12.30N 144.08E 0 4.0,3.8b **¶17204868**
ISCJB VI 01 07 10 24.6–.73 12.3N–.10 144.0E–.20 27 3.8b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 05 00 16 48.5–.39 12.60N–.03 144.36E–.04 69–3 5.1b 447 1-168
BJI VI 05 00 16 42.3 12.47N 144.69E 46 5.1b,5.0b **¶16557185**
ISCJB VI 05 00 16 45.0–.78 12.63N–.03 144.32E–.03 47–7 5.1b,3.8s
GCMT VI 05 00 16 48.4–.20 12.39N 144.18E 86–2 5.0W,3.8s
MOS VI 05 00 16 48.2–.88 12.61N 144.41E 89 5.1b,3.8s
NEIC VI 05 00 16 48.4–.84 12.62N 144.29E 66–7 5.2b,3.8s
IDC VI 05 00 16 49.4–.83 12.62N 144.24E 76–7 4.9,4.7
DJA VI 05 00 16 51.8–.50 13N–7.0 145E–6.0 113–6 5.7b,5.2
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c72; s80,c125;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.36±.17 $M_{\theta\theta}$1.74±.17; $M_{\phi\phi}$0.61±.19; $M_{r\theta}$3.50±.09; $M_{\theta\phi}$1.84±.15; $M_{\phi r}$1.18±.12; Best double couple: NP1: ϕ_s249.00000°,δ73.00000°,λ-78.00000°. NP2:ϕ_s33.00000°,δ21.00000°,λ-124.00000°. Principal axes: T 4.8680,Plg27.0000°,Azm329.0000°; N -0.5020,Plg12.0000°,Azm65.0000° ; P -4.3690,Plg61.0000°,Azm177.0000° $M_0$4.61800×10^{16}
NEIC Event type fe. Felt [II] at Dededo and Tamuning. Also felt at Apra Harbor, Hagatna Heights, Mangilao, Merizo and Yona.
ISC VI 05 20 35 22.1–.97 11.6N–.10 143.2E–.20 32 3.8b 11 3-89
IDC VI 05 20 35 26.2–2.4 11.50N 143.09E 66–24 3.8,3.8 **¶17205357**
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=14.6km az=111.0.
ISC VI 08 00 32 19.1–1.8 12.0N–.20 144.4E–.30 29 3.9b,3.3s 11 2-92
IDC VI 08 00 32 12.6–2.4 11.61N 144.39E 0 4.6L,4.0 **¶17205521**
ISC Event type ke.
IDC Error ellipse: s-maj=51.6km s-min=38.7km az=154.0.
IDC VI 09 01 36 45.0–1.3 12.18N 144.07E 0 3.7,3.5b
¶17205582
IDC Error ellipse: s-maj=50.1km s-min=18.8km az=110.0.
IDC VI 09 08 54 53.7–4.1 13.00N 143.49E 201–80 3.7,3.3
¶17205609
IDC Error ellipse: s-maj=164.7km s-min=16.5km az=86.0.
IDC VI 09 16 03 52.6–1.1 13.02N 143.59E 206–25 3.8,3.5
¶17205643
IDC Error ellipse: s-maj=53.1km s-min=14.8km az=83.0.
ISC VI 09 19 28 49.6–.33 12.80N–.05 143.26E–.08 150 4.4b 127 2-156
BJI VI 09 19 28 41.3 12.63N 143.53E 100 4.9b,4.8b **¶16856802**
IDC VI 09 19 28 45.9–.73 12.88N 143.40E 113–6 4.6,4.4
NEIC VI 09 19 28 46.0–1.0 12.84N 143.44E 116–9 4.6b,4.4
DJA VI 09 19 28 46.8–.50 13N–5.0 144E–6.0 114–8 5.2b,4.8b
ISCJB VI 09 19 28 48.5–.20 12.82N–.03 143.25E–.05 150 4.4b,4.8b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 09 19 34 42.3–.86 12.8N–.10 143.8E–.20 138 3.7b 8 1-91
ISCJB VI 09 19 34 40.8–.71 12.8N–.10 143.7E–.10 138 3.5b **¶17205654**
IDC VI 09 19 34 43.5–1.5 12.85N 144.08E 158–35 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=11.6km az=40.5.
IDC Error ellipse: s-maj=95.4km s-min=15.8km az=83.0.
IDC VI 11 00 05 12.5–1.4 12.40N 144.73E 89–12 3.8,3.7
¶17205743
IDC Error ellipse: s-maj=44.3km s-min=16.1km az=91.0.
ISC VI 20 13 55 12.8–.93 13.1N–.20 143.7E–.10 138 3.5b 9 1-134
ISCJB VI 20 13 55 11.1–.78 13.1N–.10 143.7E–.10 138 3.5b **¶17206601**
IDC VI 20 13 55 13.5–1.2 13.09N 143.93E 148–13 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=12.9km az=141.2.
IDC Error ellipse: s-maj=41.8km s-min=15.0km az=104.0.
IDC VI 20 19 01 50.3–1.3 11.88N 143.91E 0 3.5,3.3
¶17206616
IDC Error ellipse: s-maj=51.4km s-min=19.6km az=107.0.
ISC VI 24 21 07 07.2–.88 12.3N–.10 143.9E–.20 26 4.0b 15 2-92
IDC VI 24 21 07 02.7–.96 12.18N 144.00E 0 4.1,3.8 **¶16731400**
NEIC VI 24 21 07 04.5–.70 12.25N 143.79E 10 4.2b,3.8
ISCJB VI 24 21 07 05.1–.68 12.2N–.10 143.8E–.20 26 4.1b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 28 16 04 35.1–.94 12.3N–.10 144.2E–.20 27 3.8b 19 1-144
ISCJB VI 28 16 04 33.9–.80 12.29N–.09 144.0E–.10 27 3.9b,3.9s **¶17207148**
IDC VI 28 16 04 39.2–2.1 12.37N 144.20E 60–22 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=9.1km az=32.7.
IDC Error ellipse: s-maj=30.5km s-min=14.6km az=94.0.
ISC VI 28 20 17 59.2–.70 12.5N–.10 142.0E–.10 33 4.2b 25 3-94
IDC VI 28 20 17 54.6–1.1 12.55N 141.91E 0 4.0,3.8b **¶16731726**
ISCJB VI 28 20 17 57.7–.49 12.46N–.08 141.9E–.10 33 4.3b,3.1s
NEIC VI 28 20 18 03.5–1.4 12.46N 141.86E 69–13 4.6b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=39.2km s-min=21.1km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=10.4km az=170.1.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.9km az=90.0.

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ISC I 02 12 59 57.6–1.7 33.89N–.05 140.99E–.09 42–14 3.9b 39 1-148
ISCJB I 02 12 59 56.7–.87 33.89N–.03 141.01E–.07 53–7 3.8b,3.5s **¶17189219**
JMA I 02 12 59 56.7–.10 33.93N 141.02E 45–4 3.3,3.5s
IDC I 02 12 59 59.9–1.8 33.83N 140.84E 62–14 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.8km az=2.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=9.0km az=84.0.
ISC I 03 06 46 56.6–2.0 32.61N–.10 140.8E–.10 57–16 3.6b 30 1-93
IDC I 03 06 46 57.0–1.9 32.56N 140.57E 59–13 3.6,3.6 **¶17189300**
ISCJB I 03 06 46 57.5–1.0 32.69N–.06 140.7E–.10 75–7 3.5b,3.6
JMA I 03 06 46 57.7–.10 32.68N 140.76E 55 3.5,3.6

ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=18.1km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=9.7km az=9.4.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.

ISC	**I**	**05 00 57 33.1–.39**	**31.57N–.03**	**142.23E–.03**	**29–2**	**5.8b,5.4s**	**1760**	**3-162**
NIED	I	05 00 57 00	31.90N	142.10E	5	5.4W,5.4s		**¶15905617**
BJI	I	05 00 57 27.7	31.52N	142.25E	13	5.6s,5.5b		
ISCJB	I	05 00 57 29.0–.55	31.57N–.01	142.19E–.01	10–3	5.8b,5.3s		
MOS	I	05 00 57 30.7–.96	31.55N	142.21E	22	6.0b,5.3s		
JMA	I	05 00 57 31.6–.40	31.89N	142.12E	0	5.4,5.3s		
NEIC	I	05 00 57 32.2–.90	31.55N	142.18E	21–6	6.0b,5.4s		
GCMT	I	05 00 57 32.2–.10	31.49N	142.29E	12–0	5.6W,5.4s		
IDC	I	05 00 57 33.8–1.6	31.54N	142.19E	33–11	5.4,5.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ41.00000°,λ-64.00000°. NP2:ϕ_s161.00000°,δ54.00000°,λ-111.00000°. $M_0$1.43000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.8km az=173.7.
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=107.9.
JMA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=2.1km az=125.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c209; s134,c374;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.88±.03 $M_{\theta\theta}$-0.21±.03; $M_{\phi\phi}$3.09±.03; $M_{r\theta}$0.25±.07; $M_{\theta\phi}$-0.56±.02; $M_{\phi r}$0.81±.07; Best double couple: NP1: ϕ_s178.00000°,δ52.00000°,λ-80.00000°. NP2:ϕ_s343.00000°,δ39.00000°,λ-102.00000°. Principal axes: T 3.2740,Plg7.0000°,Azm261.0000°; N -0.2480,Plg8.0000°,Azm352.0000°; P -3.0240,Plg80.0000°,Azm129.0000° $M_0$3.14900×10^{17}
IDC Error ellipse: s-maj=9.9km s-min=7.3km az=74.0.

ISC	**I**	**05 20 51 36.4–.87**	**29.99N–.07**	**139.3E–.10**	**450**	**3.2b**	**41**	**3-121**
JMA	I	05 20 51 34.7–.20	29.93N	139.57E	463	4.0		**¶17189538**
ISCJB	I	05 20 51 35.1–.45	29.91N–.04	139.30E–.09	450	3.2b		
IDC	I	05 20 51 35.9–.66	29.79N	138.95E	417–10	4.0,3.2		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=4.9km az=176.9.
IDC Error ellipse: s-maj=22.8km s-min=9.7km az=69.0.

ISC	**I**	**06 00 26 41.4–.53**	**31.57N–.05**	**142.24E–.08**	**10**	**4.5b**	**78**	**3-93**
NIED	I	06 00 26 00	32.00N	142.10E	5	4.2W		**¶16021258**
IDC	I	06 00 26 39.9–.74	31.53N	142.26E	0	4.5,4.5b		
ISCJB	I	06 00 26 40.5–.36	31.61N–.04	142.18E–.06	10	4.4b,3.2s		
NEIC	I	06 00 26 41.4–.33	31.53N	142.28E	10	4.7b,3.2s		
JMA	I	06 00 26 44.0–.20	31.96N	142.12E	0	4.4,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ39.00000°,λ-80.00000°. NP2:ϕ_s164.00000°,δ52.00000°,λ-98.00000°. $M_0$2.14000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=16.4km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.4km az=142.8.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.4km az=49.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**I**	**06 01 35 19.4–.40**	**31.63N**	**142.42E**	**50**	**3.7**		
								¶600516082

JMA Error ellipse: s-maj=3.3km s-min=4.7km az=-1.0.

ISC	**I**	**06 02 26 59.7–1.2**	**31.68N–.09**	**142.0E–.10**	**29**	**3.6b**	**21**	**2-56**
IDC	I	06 02 26 55.3–3.0	31.43N	141.99E	0	3.6,3.6		**¶17189564**
ISCJB	I	06 02 26 56.5–.74	31.57N–.07	142.2E–.10	29	3.6b,3.6		
JMA	I	06 02 26 57.8–.50	31.90N	142.11E	0	3.8,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=113.1km s-min=16.6km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=6.7km az=153.1.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.

ISC	**I**	**06 03 42 13.4–.67**	**31.52N–.06**	**142.1E–.10**	**49**	**4.0b,3.6s**	**30**	**3-122**
IDC	I	06 03 42 07.3–.79	31.53N	142.25E	0	4.1,3.9L		**¶15977973**
NEIC	I	06 03 42 08.6–.53	31.51N	142.34E	10	4.4b,3.9L		
JMA	I	06 03 42 10.6–.20	31.67N	142.30E	60	4.0,3.9L		
ISCJB	I	06 03 42 11.7–.53	31.62N–.06	142.13E–.09	49	4.0b,3.6s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

JMA	**I**	**06 04 28 05.7–.50**	**32.47N**	**137.70E**	**411**	**3.6**		
								¶600516115

JMA Error ellipse: s-maj=7.8km s-min=3.8km az=-1.0.

ISC	**I**	**06 04 49 09.8–.77**	**31.70N–.08**	**142.17E–.09**	**49**	**4.0b,3.2s**	**33**	**2-94**
NIED	I	06 04 49 00	31.60N	142.30E	5	4.2W,3.2s		**¶15990243**
IDC	I	06 04 49 02.8–.81	31.54N	142.24E	0	4.1,3.9		
NEIC	I	06 04 49 04.3–.50	31.54N	142.29E	10	4.5b,3.9		
JMA	I	06 04 49 05.5–.30	31.63N	142.30E	47	4.2,3.9		
ISCJB	I	06 04 49 07.2–.54	31.65N–.05	142.15E–.09	49	4.0b,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ16.00000°,λ-63.00000°. NP2:ϕ_s132.00000°,δ75.00000°,λ-98.00000°. $M_0$2.09000×10^{15}
NEIC Event type se.
ISCJB Event type se.

ISC	**I**	**06 09 12 26.6–.45**	**30.79N–.05**	**141.50E–.09**	**37**	**4.4b,3.4s**	**73**	**3-149**
NIED	I	06 09 12 00	31.40N	141.70E	5	4.4W,3.4s		**¶16021259**
IDC	I	06 09 12 21.4–.49	30.81N	141.47E	0	4.3,4.2		
ISCJB	I	06 09 12 24.7–.33	30.78N–.03	141.41E–.08	37	4.3b,3.5s		
NEIC	I	06 09 12 24.1–2.3	30.79N	141.53E	18–14	4.8b,3.5s		
JMA	I	06 09 12 27.3–.50	31.38N	141.69E	0	4.3,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ13.00000°,λ111.00000°. NP2:ϕ_s352.00000°,δ78.00000°,λ85.00000°. $M_0$3.77000×10^{15}
IDC Error ellipse: s-maj=16.9km s-min=11.8km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=3.6km az=163.1.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.7km az=78.0.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.

ISC	**I**	**07 16 00 27.1–1.2**	**30.6N–.10**	**139.0E–.30**	**450**	**2.9b**	**14**	**3-74**
ISCJB	I	07 16 00 25.9–.82	30.48N–.08	138.8E–.30	450	2.9b		**¶17189647**
IDC	I	07 16 00 26.1–1.5	30.32N	138.38E	418–37	3.5,2.8		
JMA	I	07 16 00 27.1–.20	30.78N	139.69E	476	3.4,2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.3km s-min=10.1km az=9.9.
IDC Error ellipse: s-maj=95.1km s-min=19.4km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=6.7km az=-1.0.

ISC	**I**	**08 16 37 04.6–1.1**	**33.11N–.07**	**140.13E–.09**	**141–7**	**3.5b**	**21**	**0-57**
ISCJB	I	08 16 37 03.2–.77	33.07N–.06	140.2E–.10	143–5	3.5b		**¶17189710**
JMA	I	08 16 37 05.1–.10	33.15N	140.15E	136–1	3.0		
IDC	I	08 16 37 05.1–.79	32.90N	139.65E	129–38	3.5,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=9.9km az=4.1.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=171.5km s-min=22.2km az=66.0.

ISC	**I**	**08 21 06 07.9–1.2**	**32.4N–.10**	**138.22E–.09**	**380**	**3.0b**	**23**	**2-72**
JMA	I	08 21 06 05.2–.60	32.04N	138.31E	370	3.2		**¶17189723**
ISCJB	I	08 21 06 06.3–.89	32.34N–.09	138.28E–.09	380	3.0b		
IDC	I	08 21 06 07.6–1.9	32.30N	138.10E	368–18	3.5,2.9		

ISC Event type ke.
JMA Error ellipse: s-maj=7.8km s-min=4.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=7.8km az=141.8.
IDC Error ellipse: s-maj=40.3km s-min=18.6km az=73.0.

ISC	**I**	**09 02 44 21.9–.58**	**31.53N–.07**	**141.14E–.07**	**57**	**4.6b,4.2s**	**141**	**2-121**
NIED	I	09 02 44 00	31.80N	141.20E	50	4.1W,4.2s		**¶15910797**
BJI	I	09 02 44 15.9	31.23N	141.53E	47	4.9b,4.5b		
MOS	I	09 02 44 17.2–.98	31.31N	141.09E	33	4.8b,4.5b		
IDC	I	09 02 44 19.7–2.4	31.28N	140.98E	39–20	4.1,4.0L		
NEIC	I	09 02 44 19.8–.70	31.31N	141.06E	40–6	4.7b,4.0L		
JMA	I	09 02 44 19.6–.20	31.79N	141.15E	0	4.4,4.0L		
ISCJB	I	09 02 44 21.3–.35	31.60N–.03	141.11E–.06	57	4.4b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ55.00000°,λ-43.00000°. NP2:ϕ_s277.00000°,δ56.00000°,λ-136.00000°. $M_0$1.56000×10^{15}
NEIC Event type se.
ISCJB Event type se.

ISC	**I**	**09 18 00 16.8–.71**	**30.62N–.08**	**138.08E–.09**	**477**	**3.4b**	**41**	**3-73**
ISCJB	I	09 18 00 15.9–.46	30.63N–.05	138.06E–.07	477	3.2b		**¶17189782**
JMA	I	09 18 00 16.5–.40	30.85N	138.17E	503	3.8		
IDC	I	09 18 00 17.4–.76	30.64N	137.92E	470–9	3.9,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.8km az=36.6.
JMA Error ellipse: s-maj=6.7km s-min=3.8km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=11.9km az=115.0.

ISC	**I**	**09 18 36 56.6–.81**	**31.65N–.09**	**142.24E–.08**	**29**	**4.0b**	**53**	**3-93**
NEIC	I	09 18 36 51.6–5.5	31.46N	142.41E	5–33	4.5b		**¶16057157**
IDC	I	09 18 36 51.8–.73	31.57N	142.33E	0	4.9,4.7s		
JMA	I	09 18 36 53.3–.40	31.83N	142.19E	0	4.0,4.7s		
ISCJB	I	09 18 36 54.7–.45	31.71N–.04	142.28E–.06	29	4.8s,3.9b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**I**	**09 20 56 54.2–.99**	**30.12N–.09**	**140.2E–.30**	**150**	**3.6b**	**16**	**3-74**
ISCJB	I	09 20 56 52.5–.76	30.06N–.06	140.0E–.20	150	3.6b		**¶17189794**
IDC	I	09 20 56 55.2–1.9	30.09N	140.37E	166–28	3.9,3.4		
JMA	I	09 20 56 56.2–.30	30.64N	142.05E	54	4.2,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=4.6km az=163.8.
IDC Error ellipse: s-maj=92.6km s-min=14.9km az=75.0.
JMA Error ellipse: s-maj=2.2km s-min=6.7km az=-1.0.

ISC	**I**	**09 21 20 43.4–.66**	**29.02N–.05**	**143.0E–.10**	**35**	**4.1b**	**45**	**2-149**
IDC	I	09 21 20 38.3–.71	28.92N	143.36E	0	4.1,4.0b		**¶16150907**
NEIC	I	09 21 20 39.7–.46	28.93N	143.28E	10	4.3b,4.0b		
ISCJB	I	09 21 20 41.0–.52	29.05N–.03	143.01E–.10	33	4.0b,4.0b		
JMA	I	09 21 20 42.4–.20	28.98N	142.53E	40	4.1,4.0b		

ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=16.8km az=100.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.4km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=4.0km az=178.1.
JMA Error ellipse: s-maj=1.1km s-min=5.8km az=-1.0.

ISC	**I**	**09 23 32 57.6–.72**	**29.72N–.08**	**141.9E–.20**	**30**	**3.7b**	**12**	**3-94**
IDC	I	09 23 32 53.8–1.0	29.89N	141.99E	0	3.9,3.7		**¶17189798**
ISCJB	I	09 23 32 56.7–.61	29.90N–.07	141.9E–.20	30	4.1s,3.6b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**10 05 22 38.4–.80**	**30.22N–.07**	**138.5E–.10**	**400**	**3.1b**	**25**	**3-82**
ISCJB	I	10 05 22 37.3–.58	30.20N–.05	138.36E–.09	400	3.3b		**¶17189819**
JMA	I	10 05 22 37.4–.20	30.38N	138.97E	459	3.7		
IDC	I	10 05 22 40.8–1.8	30.35N	138.52E	428–23	3.9,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.3km az=164.4.
JMA Error ellipse: s-maj=3.3km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=61.4km s-min=23.5km az=75.0.

ISC	**I**	**10 09 28 03.3–.92**	**33.13N–.08**	**138.16E–.07**	**336–8**	**3.1b**	**42**	**1-69**
JMA	I	10 09 27 59.3–.20	32.81N	138.22E	352	3.4		**¶17189834**
ISCJB	I	10 09 28 02.0–.67	33.06N–.08	138.23E–.08	337–5	3.0b		
IDC	I	10 09 28 03.9–.77	32.93N	137.95E	332–9	3.6,3.0		

ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=8.2km az=146.8.
IDC Error ellipse: s-maj=25.2km s-min=15.8km az=53.0.

IDC	**I**	**10 13 43 49.3–5.4**	**31.40N**	**141.94E**	**0**	**3.5,3.3**		
								¶17189854

IDC Error ellipse: s-maj=206.3km s-min=25.3km az=70.0.

JMA	**I**	**10 14 43 57.7–.60**	**31.76N**	**142.21E**	**0**	**3.8**		
NIED	I	10 14 43 00	31.80N	142.20E	5	3.6W		**¶17189862**
IDC	I	10 14 43 56.2–1.9	31.60N	142.37E	0	3.9,3.8		

JMA Error ellipse: s-maj=3.3km s-min=3.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ34.00000°,λ-82.00000°. NP2:ϕ_s162.00000°,δ56.00000°,λ-96.00000°. $M_0$2.47000×10^{14}
IDC Error ellipse: s-maj=54.4km s-min=19.3km az=72.0.

ISC	**I**	**10 18 16 54.6–1.9**	**31.4N–.10**	**142.2E–.10**	**29**	**3.4b**	**25**	**3-52**
IDC	I	10 18 16 51.4–2.7	31.30N	141.97E	0	3.5,3.4		**¶17189875**
JMA	I	10 18 16 52.8–.40	31.62N	142.16E	0	4.0,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=74.7km s-min=21.0km az=69.0.
JMA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.

JMA	**I**	**10 19 18 48.2–.80**	**32.08N**	**142.52E**	**0**	**3.6**		
								¶600517502

JMA Error ellipse: s-maj=6.7km s-min=6.6km az=-1.0.

ISC	**I**	**11 11 10 47.2–1.3**	**31.64N–.10**	**142.1E–.10**	**35**	**3.6b**	**21**	**2-56**
JMA	I	11 11 10 43.1–.50	31.83N	142.19E	0	3.9		**¶17189912**
ISCJB	I	11 11 10 44.4–.92	31.71N–.08	142.3E–.10	35	3.6b		
IDC	I	11 11 10 46.0–1.2	31.14N	141.04E	0	3.7,3.6		

ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=8.2km az=155.3.
IDC Error ellipse: s-maj=41.5km s-min=18.7km az=75.0.

ISC	**I**	**11 16 20 14.6–.60**	**31.33N–.05**	**141.74E–.09**	**35**	**4.1b**	**58**	**2-93**
NIED	I	11 16 20 00	31.40N	141.90E	5	4.0W		**¶15998105**
JMA	I	11 16 20 08.8–.20	31.41N	141.92E	6	3.9		
IDC	I	11 16 20 09.3–.67	31.25N	141.65E	0	4.1,3.9		
ISCJB	I	11 16 20 12.2–.43	31.37N–.03	141.80E–.08	35	4.0b,3.8s		
NEIC	I	11 16 20 14.4–2.3	31.26N	141.61E	33–16	4.2b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ16.00000°,λ130.00000°. NP2:ϕ_s337.00000°,δ78.00000°,λ80.00000°. $M_0$9.86000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=15.3km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=3.8km az=160.8.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=7.1km az=74.0.

ISC	**I**	**11 18 57 18.1–1.7**	**31.1N–.10**	**141.1E–.30**	**35**		**12**	**2-94**
IDC	I	11 18 57 13.7–3.9	31.03N	140.71E	0	3.6,3.5b		**¶17189937**
JMA	I	11 18 57 16.3–.40	31.03N	141.02E	83	3.1,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=222.5km s-min=20.1km az=79.0.
JMA Error ellipse: s-maj=4.4km s-min=6.7km az=-1.0.

ISC	**I**	**12 00 07 15.0–.39**	**29.96N–.04**	**139.23E–.04**	**409–3**	**4.5b**	**411**	**3-154**
MOS	I	12 00 07 12.9–.91	29.95N	139.03E	399	4.5b		**¶15919543**
ISCJB	I	12 00 07 13.6–.24	29.94N–.02	139.15E–.03	405–2	4.5b		
JMA	I	12 00 07 14.1–.30	29.97N	139.48E	419–5	4.7		
NEIC	I	12 00 07 14.5–.15	29.91N	139.06E	399	4.6b		
BJI	I	12 00 07 14.6	29.92N	139.01E	414	4.7b,4.7b		
IDC	I	12 00 07 15.2–.59	29.95N	139.15E	410–6	4.8,4.1		

ISC Event type se.
MOS Error ellipse: s-maj=10.7km s-min=4.6km az=112.4.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.5km az=6.5.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.5km az=125.0.
IDC Error ellipse: s-maj=8.5km s-min=6.0km az=85.0.

ISC	**I**	**12 07 49 52.7–1.7**	**31.0N–.10**	**142.6E–.30**	**35**	**3.4b**	**14**	**3-55**
ISCJB	I	12 07 49 51.3–1.2	31.02N–.10	142.5E–.30	35	3.4b		**¶17189978**
IDC	I	12 07 49 51.2–1.2	30.61N	141.49E	0	3.6,3.5L		
JMA	I	12 07 49 53.5–.50	31.33N	142.32E	0	3.8,3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.2km s-min=7.6km az=162.1.
IDC Error ellipse: s-maj=45.8km s-min=22.8km az=89.0.
JMA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.

IDC	**I**	**12 09 18 15.9–1.3**	**29.75N**	**140.57E**	**0**	**3.8,3.5L**		
								¶17189983

IDC Error ellipse: s-maj=71.8km s-min=24.8km az=100.0.

ISC	**I**	**12 20 40 27.7–5.7**	**33.4N–.30**	**141.0E–.30**	**10**		**9**	**1-57**
IDC	I	12 20 40 24.9–2.4	33.15N	141.07E	0	3.6,3.5b		**¶17190019**
JMA	I	12 20 40 28.7–.20	33.59N	140.87E	6	3.3,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=45.4km s-min=22.9km az=32.0.

JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC I 14 01 55 48.5–.65 32.42N–.06 141.96E–.07 39 4.1b 53 2-121
NIED I 14 01 55 00 32.40N 142.00E 8 4.0W **¶16002294**
IDC I 14 01 55 42.8–.78 32.46N 142.05E 0 4.0,3.9
JMA I 14 01 55 45.1–.40 32.37N 142.03E 72 3.6,3.9
ISCJB I 14 01 55 46.1–.42 32.43N–.03 142.03E–.06 39 4.1b,3.9
NEIC I 14 01 55 47.0–2.1 32.45N 142.07E 29–15 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ47.00000°,λ114.00000°. NP2:ϕ_s185.00000°,δ48.00000°,λ67.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=25.2km s-min=16.7km az=69.0.
JMA Error ellipse: s-maj=2.2km s-min=3.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.0km az=157.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.6km az=92.0.
ISC I 14 11 33 08.0–.55 29.88N–.06 139.3E–.10 388 3.2b 41 3-96
JMA I 14 11 33 07.4–.20 29.90N 139.64E 425 3.8 **¶17190159**
IDC I 14 11 33 08.4–1.1 29.83N 139.07E 395–12 3.8,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=10.3km az=73.0.
JMA I 16 04 19 30.8–.40 32.36N 137.97E 368 3.6
¶600519168
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
IDC I 17 04 20 18.8–2.4 30.32N 138.75E 430–28 3.6,3.0
¶17190374
IDC Error ellipse: s-maj=44.8km s-min=16.2km az=86.0.
JMA I 17 08 55 19.6–.60 30.27N 138.89E 455 3.5
¶600519499
JMA Error ellipse: s-maj=6.7km s-min=6.7km az=-1.0.
ISC I 18 17 15 34.3–.90 30.4N–.10 138.9E–.20 450 3.1b 22 3-82
JMA I 18 17 15 30.6–.20 30.31N 138.88E 508 3.4 **¶17190494**
ISCJB I 18 17 15 33.5–.43 30.39N–.05 138.80E–.10 450 3.1b
IDC I 18 17 15 33.9–.77 30.36N 138.69E 436–15 3.7,2.9
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.1km az=158.4.
IDC Error ellipse: s-maj=39.5km s-min=9.9km az=71.0.
ISC I 19 03 13 16.6–1.0 31.56N–.06 142.5E–.10 49 3.8b 27 3-93
IDC I 19 03 13 12.8–1.0 31.50N 142.27E 0 3.9L,3.8 **¶17190522**
JMA I 19 03 13 14.1–.50 31.60N 142.51E 46 4.1,3.8
ISCJB I 19 03 13 15.5–.67 31.60N–.05 142.3E–.10 49 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA I 22 18 22 43.0–.70 31.24N 141.06E 0 3.8
¶600521158
JMA Error ellipse: s-maj=5.6km s-min=2.9km az=-1.0.
ISC I 22 22 15 08.6–.80 30.30N–.07 142.3E–.20 24 3.5b 11 3-94
IDC I 22 22 15 05.2–1.0 30.36N 142.47E 0 3.7,3.5 **¶17190769**
ISCJB I 22 22 15 06.7–.67 30.33N–.05 142.3E–.20 24 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 23 03 05 21.7–1.8 33.3N–.10 140.1E–.40 97–10 18 0-57
ISCJB I 23 03 05 20.5–1.1 33.2N–.10 140.0E–.40 106–5 3.5b **¶17190775**
JMA I 23 03 05 21.6–.10 33.42N 140.19E 88–2 2.8
IDC I 23 03 05 21.3–2.5 33.14N 140.23E 87–17 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=58.1km s-min=8.5km az=164.2.
JMA Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=70.6km s-min=12.9km az=80.0.
ISC I 24 00 00 36.5–2.4 32.1N–.10 140.9E–.10 15–12 3.4b 27 1-120
IDC I 24 00 00 32.9–1.3 31.70N 140.61E 0 3.7,3.7L **¶17190840**
JMA I 24 00 00 40.1–.20 32.25N 140.94E 28 4.1,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=46.9km s-min=22.9km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC I 24 12 52 45.3–.99 32.45N–.06 141.9E–.10 39 3.4b 24 2-56
IDC I 24 12 52 40.3–1.8 32.51N 142.02E 0 3.6,3.6 **¶17190891**
ISCJB I 24 12 52 43.2–.69 32.52N–.04 141.91E–.10 39 3.4b,3.6
JMA I 24 12 52 43.7–.20 32.49N 141.82E 87 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=51.1km s-min=18.7km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.0km az=163.9.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
JMA I 25 14 02 44.3–.50 32.10N 142.52E 0 3.7
¶600522049
JMA Error ellipse: s-maj=5.6km s-min=5.7km az=-1.0.
ISC I 25 16 17 52.2–1.3 32.72N–.07 141.72E–.09 31 3.7b 18 2-74
IDC I 25 16 17 47.4–1.4 32.57N 141.81E 0 3.7,3.5b **¶17190971**
ISCJB I 25 16 17 49.8–1.0 32.68N–.06 141.90E–.09 31 4.1s,3.5b
JMA I 25 16 17 51.1–.40 32.77N 141.55E 0 3.7,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=23.8km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.5km az=173.9.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
ISC I 25 21 33 08.9–.61 30.80N–.06 139.2E–.10 450 3.7b 48 2-82
JMA I 25 21 33 05.9–.30 30.72N 138.85E 442–5 3.6 **¶17190988**
ISCJB I 25 21 33 07.2–.38 30.84N–.04 139.24E–.09 450 3.6b
IDC I 25 21 33 07.3–.78 30.69N 138.50E 399–8 4.1,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.9km az=175.1.
IDC Error ellipse: s-maj=12.5km s-min=9.8km az=83.0.
ISC I 26 10 20 34.1–.97 33.39N–.05 139.57E–.08 28–8 3.4b 26 0-94
JMA I 26 10 20 32.8–.10 33.43N 139.47E 0 3.4 **¶17191029**
ISCJB I 26 10 20 33.6–.42 33.35N–.05 139.55E–.08 37–5 3.4b
IDC I 26 10 20 33.4–3.7 33.23N 140.03E 17–24 3.7,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=4.8km az=150.4.
IDC Error ellipse: s-maj=28.4km s-min=8.5km az=142.0.
ISC I 26 12 31 56.1–.45 29.37N–.05 138.39E–.08 500 3.8b 83 4-97
ISCJB I 26 12 31 54.8–.30 29.30N–.03 138.39E–.07 500 3.8b **¶16019262**
MOS I 26 12 31 54.8–.84 29.31N 138.29E 502 3.9b
JMA I 26 12 31 55.2–.50 29.45N 138.86E 535 4.2
IDC I 26 12 31 56.2–.88 29.32N 138.34E 501–10 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.4km az=6.3.
MOS Error ellipse: s-maj=15.7km s-min=7.2km az=100.3.
JMA Error ellipse: s-maj=6.7km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=11.8km s-min=7.0km az=94.0.
ISC I 27 20 07 29.7–.54 32.48N–.05 141.85E–.07 39 4.2b,3.7s 66 2-121
NIED I 27 20 07 00 32.60N 142.00E 5 4.4W,3.7s **¶16019271**
IDC I 27 20 07 25.1–.59 32.47N 141.69E 0 4.1,4.0
JMA I 27 20 07 26.8–.20 32.55N 142.01E 56 3.9,4.0
NEIC I 27 20 07 26.6–.42 32.49N 141.71E 10 4.3b,4.0
ISCJB I 27 20 07 28.0–.42 32.54N–.04 141.82E–.06 39 4.0b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ48.00000°,λ60.00000°. NP2:ϕ_s21.00000°,δ50.00000°,λ119.00000°. $M_0$4.54000×10^{15}
NEIC Event type se.
ISCJB Event type se.
JMA I 29 15 40 35.1–.40 31.40N 142.96E 13 4.0
¶600523331
JMA Error ellipse: s-maj=4.4km s-min=3.8km az=-1.0.
ISC I 29 19 12 57.1–1.5 31.57N–.10 142.6E–.20 35 3.5b 14 4-56
ISCJB I 29 19 12 54.7–1.2 31.67N–.07 142.8E–.20 35 3.5b **¶17191267**
IDC I 29 19 12 57.0–4.0 30.99N 141.11E 0 3.7,3.7s
JMA I 29 19 13 01.5–.40 31.92N 142.49E 49 3.6,3.7s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.8km s-min=7.6km az=165.6.
IDC Error ellipse: s-maj=165.1km s-min=26.2km az=73.0.

JMA Error ellipse: s-maj=4.4km s-min=4.7km az=-1.0.
ISC I 30 01 56 13.8–.32 30.76N–.04 141.93E–.04 23 4.7b,4.1s 277 3-152
NIED I 30 01 56 00 30.80N 142.30E 5 4.6W,4.1s **¶15981231**
IDC I 30 01 56 09.7–.52 30.71N 142.06E 0 4.5,4.5
BJI I 30 01 56 10.5 30.70N 142.04E 22 5.0b,4.6b
JMA I 30 01 56 11.0–.20 30.80N 142.33E 37 4.5,4.6b
ISCJB I 30 01 56 12.0–.18 30.73N–.02 141.90E–.03 23 4.7b,4.0s
MOS I 30 01 56 13.1–1.0 30.75N 141.99E 33 5.0b,4.0s
NEIC I 30 01 56 14.7–1.5 30.71N 141.92E 29–10 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ26.00000°,λ128.00000°. NP2:ϕ_s324.00000°,δ70.00000°,λ74.00000°. $M_0$9.87000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=13.3km az=86.0.
JMA Error ellipse: s-maj=1.1km s-min=3.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=167.4.
MOS Error ellipse: s-maj=9.9km s-min=4.6km az=115.2.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.8km az=116.0.
ISC I 30 10 30 03.7–.85 31.52N–.09 139.86E–.09 150 3.7b 54 2-150
NIED I 30 10 30 00 31.20N 140.10E 145 4.2W **¶17191311**
JMA I 30 10 30 00.2–.50 31.23N 140.06E 166–4 3.8
ISCJB I 30 10 30 01.5–.60 31.37N–.05 139.97E–.07 150 3.7b
IDC I 30 10 30 01.2–1.2 31.21N 139.68E 142–9 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ76.00000°,λ170.00000°. NP2:ϕ_s283.00000°,δ80.00000°,λ15.00000°. $M_0$2.10000×10^{15}
JMA Error ellipse: s-maj=4.4km s-min=2.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.0km az=12.1.
IDC Error ellipse: s-maj=16.7km s-min=12.2km az=98.0.
ISC II 01 02 24 42.3–.66 29.91N–.06 139.6E–.10 350 3.5b 38 3-121
ISCJB II 01 02 24 40.2–.41 29.90N–.04 139.78E–.09 350 3.4b **¶17191450**
JMA II 01 02 24 41.5–.20 29.93N 139.86E 337 3.6
IDC II 01 02 24 41.5–2.2 29.83N 139.36E 332–22 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.9km az=168.9.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=19.9km s-min=11.8km az=85.0.
ISC II 04 08 03 05.2–.58 29.03N–.06 140.7E–.10 90 4.1b 56 2-152
NIED II 04 08 03 00 29.10N 141.40E 65 4.0W **¶16020130**
ISCJB II 04 08 03 03.5–.37 28.97N–.04 140.54E–.09 90 4.0b
JMA II 04 08 03 05.4 29.13N 141.42E 130 4.0
IDC II 04 08 03 05.5–2.0 28.96N 140.61E 95–19 4.1s,4.1
NEIC II 04 08 03 06.5–.73 28.94N 140.69E 104–6 4.2b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ49.00000°,λ124.00000°. NP2:ϕ_s121.00000°,δ52.00000°,λ58.00000°. $M_0$1.02000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=3.4km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=20.0km s-min=14.0km az=77.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.4km az=64.0.
ISC II 04 12 16 34.2–.74 33.65N–.07 138.28E–.08 287–6 3.6b 52 1-118
ISCJB II 04 12 16 33.1–.43 33.63N–.05 138.31E–.08 293–2 3.6b **¶17191648**
JMA II 04 12 16 33.3–.20 33.67N 138.21E 297–3 3.4
IDC II 04 12 16 33.6–.53 33.56N 138.22E 282–5 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.4km az=7.2.
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=8.5km az=70.0.
ISC II 04 21 19 15.6–1.3 32.40N–.09 142.2E–.10 39 3.5b 19 2-56
IDC II 04 21 19 09.1–10 32.21N 142.45E 0 3.5s,3.5 **¶17191695**
JMA II 04 21 19 14.4–.30 32.69N 141.94E 0 3.5,3.5
ISCJB II 04 21 19 16.2–1.3 32.60N–.09 142.1E–.20 39 4.0s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 18 20 55.3–.72 30.45N–.06 142.1E–.10 23 3.9b 34 3-94
NIED II 07 18 20 00 30.50N 142.10E 5 4.0W **¶17191871**
ISCJB II 07 18 20 54.2–.57 30.58N–.05 142.1E–.10 23 3.8b
JMA II 07 18 20 54.1–.20 30.45N 142.07E 48 4.1
IDC II 07 18 20 58.3–2.5 30.43N 142.02E 45–24 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ29.00000°,λ54.00000°. NP2:ϕ_s12.00000°,δ67.00000°,λ108.00000°. $M_0$9.98000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=5.2km az=163.8.
JMA Error ellipse: s-maj=2.2km s-min=5.8km az=-1.0.
IDC Error ellipse: s-maj=27.4km s-min=15.2km az=75.0.
ISC II 09 22 25 34.1–.53 31.23N–.05 138.76E–.05 331–4 4.4b 316 2-151
NIED II 09 22 25 00 31.40N 139.00E 340 4.4W **¶16168827**
ISCJB II 09 22 25 31.9–.29 31.13N–.03 138.73E–.04 323–2 4.3b
MOS II 09 22 25 32.0–.85 31.18N 138.66E 323 4.5b
IDC II 09 22 25 33.0–.58 31.20N 138.67E 320–5 4.7,4.1
BJI II 09 22 25 32.2 31.12N 138.54E 326 4.7b,4.4b
NEIC II 09 22 25 33.9–.39 31.19N 138.63E 328–3 4.5b,4.4b
JMA II 09 22 25 33.8–.40 31.36N 139.03E 341–4 4.9,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ76.00000°,λ180.00000°. NP2:ϕ_s295.00000°,δ90.00000°,λ14.00000°. $M_0$4.36000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.8km az=13.3.
MOS Error ellipse: s-maj=10.1km s-min=4.9km az=113.1.
IDC Error ellipse: s-maj=8.9km s-min=7.3km az=72.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.0km az=129.0.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
ISC II 10 16 57 37.2–1.3 33.6N–.10 138.3E–.20 350 19 2-57
IDC II 10 16 57 16.6–1.7 31.36N 137.92E 0 3.5,3.2 **¶600527859**
ISCJB II 10 16 57 36.3–.79 33.50N–.08 138.4E–.20 350 2.7b,3.2
JMA II 10 16 57 37.1–.30 33.45N 138.38E 341 2.9,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=165.0km s-min=25.8km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=9.2km az=25.2.
JMA Error ellipse: s-maj=5.6km s-min=3.7km az=-1.0.
ISC II 12 07 58 45.6–1.2 29.01N–.06 142.3E–.30 27 3.7b 14 2-70
IDC II 12 07 58 41.8–1.4 29.02N 142.41E 0 3.7,3.6 **¶17192106**
JMA II 12 07 58 43.3–.10 29.16N 142.44E 20 4.0,3.6
ISCJB II 12 07 58 44.1–1.0 29.14N–.04 142.3E–.30 27 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 13 01 36 04.6–2.2 29.99N–.07 143.2E–.40 10 8 3-76
IDC II 13 01 36 03.1–2.6 29.92N 143.29E 0 3.8,3.7 **¶17192134**
JMA II 13 01 36 17.5–.60 30.48N 141.32E 0 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=103.4km s-min=22.8km az=89.0.
JMA Error ellipse: s-maj=4.4km s-min=6.7km az=-1.0.
ISC II 13 05 06 53.3–1.7 32.78N–.09 140.8E–.10 50 13 1-57
IDC II 13 05 06 49.6–3.2 32.32N 140.21E 0 3.5,3.4L **¶17192140**
ISCJB II 13 05 06 51.5–1.1 32.77N–.06 140.8E–.10 50 3.4b,3.2s
JMA II 13 05 06 54.5–.20 32.88N 140.57E 76 3.2,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=170.2km s-min=32.5km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.8km az=167.5.
JMA Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
ISC II 13 14 38 13.4–1.3 32.50N–.09 141.7E–.10 31 3.5b 16 2-56
IDC II 13 14 38 11.6–3.8 32.10N 140.95E 0 3.7,3.7s **¶17192156**
JMA II 13 14 38 12.1–.30 32.55N 141.92E 59 3.7,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=138.0km s-min=19.9km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
JMA II 14 05 28 18.7–.20 31.88N 141.72E 0 4.2
¶600528933
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
IDC II 16 01 06 44.5–2.0 29.96N 140.67E 91–20 3.5,3.3
¶17192332
IDC Error ellipse: s-maj=45.7km s-min=16.9km az=87.0.
ISC II 16 01 11 43.6–.71 29.4N–.10 140.3E–.20 400 3.3b 15 3-89

ISCJB II 16 01 11 42.4–.56 29.3N–.10 140.2E–.20 400 3.3b **¶17192333**
IDC II 16 01 11 43.3–1.5 29.36N 140.06E 390–19 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.5km s-min=10.7km az=150.3.
IDC Error ellipse: s-maj=33.6km s-min=13.4km az=80.0.
ISC II 19 07 38 12.6–.69 31.19N–.05 142.1E–.10 49 3.7b 32 3-93
IDC II 19 07 38 06.7–.76 31.28N 142.18E 0 3.8,3.6 **¶17192523**
JMA II 19 07 38 08.5–.30 31.35N 142.70E 47 4.0,3.6
ISCJB II 19 07 38 10.7–.53 31.21N–.04 142.0E–.10 49 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 19 15 32 38.5–.60 33.97N–.04 139.81E–.05 123–5 4.5b 199 0-149
NIED II 19 15 32 00 33.90N 139.80E 125 4.4W **¶16032960**
BJI II 19 15 32 35.8 33.90N 139.70E 104 5.0b,4.6b
ISCJB II 19 15 32 37.7–.28 33.94N–.03 139.74E–.04 131–1 4.4b,4.6b
IDC II 19 15 32 38.7–.79 33.89N 139.72E 127–7 4.5,4.2
JMA II 19 15 32 38.9–.10 33.96N 139.87E 117–1 4.3,4.2
NEIC II 19 15 32 38.9–.45 33.90N 139.60E 125–3 4.6b,4.2
MOS II 19 15 32 42.0–.96 34.37N 139.64E 150 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ45.00000°,λ166.00000°. NP2:ϕ_s192.00000°,δ80.00000°,λ46.00000°. $M_0$4.77000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.7km az=144.0.
IDC Error ellipse: s-maj=11.5km s-min=10.0km az=59.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.8km az=182.0. Recorded [1 JMA] on Mikura-jima.
MOS Error ellipse: s-maj=8.9km s-min=5.0km az=110.8.
ISC II 20 05 25 26.5–.89 29.27N–.09 140.3E–.10 10 4.0b 8 3-75
NIED II 20 05 25 00 29.60N 141.60E 5 4.1W **¶17192569**
ISCJB II 20 05 25 24.3–.74 29.30N–.08 140.3E–.20 10 3.6b
IDC II 20 05 25 25.3–1.2 29.30N 140.31E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ19.00000°,λ121.00000°. NP2:ϕ_s338.00000°,δ74.00000°,λ80.00000°. $M_0$1.44000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=21.9km s-min=7.0km az=152.6.
IDC Error ellipse: s-maj=43.4km s-min=21.3km az=72.0.
ISC II 21 03 08 10.3–1.1 33.02N–.07 140.2E–.10 137–7 3.5b 17 0-57
ISCJB II 21 03 08 09.0–.79 33.02N–.06 140.2E–.10 141–5 3.4b **¶17192615**
JMA II 21 03 08 10.8–.20 33.10N 140.21E 133–2 3.1
IDC II 21 03 08 11.0–1.0 32.74N 139.70E 125–33 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=10.0km az=4.3.
JMA Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=157.1km s-min=22.4km az=66.0.
ISC II 22 09 38 04.2–.95 31.36N–.09 138.49E–.10 450 3.6b 41 2-81
JMA II 22 09 38 02.9–.60 31.18N 138.40E 422 3.5 **¶17192697**
ISCJB II 22 09 38 03.6–.49 31.48N–.05 138.54E–.08 450 3.5b
IDC II 22 09 38 04.5–1.0 31.39N 138.24E 423–12 4.0,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=7.8km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.0km az=17.6.
IDC Error ellipse: s-maj=29.3km s-min=12.9km az=68.0.
JMA II 23 02 45 10.3–.30 30.09N 140.21E 126 3.6
¶600531827
JMA Error ellipse: s-maj=3.3km s-min=7.7km az=-1.0.
ISC II 23 22 14 04.3–.30 31.45N–.03 140.28E–.03 98–2 5.3b 1434 2-164
BJI II 23 22 13 56.7 31.31N 140.96E 96 5.2b,4.9b **¶16155409**
NIED II 23 22 14 00 31.50N 140.70E 80 5.4W,4.9b
JMA II 23 22 14 02.4–.20 31.46N 140.67E 80–5 5.2,4.9b
ISCJB II 23 22 14 03.2–.31 31.42N–.02 140.25E–.02 97–2 5.3b,4.9b
IDC II 23 22 14 03.5–.79 31.36N 140.18E 94–6 5.2,5.0
MOS II 23 22 14 03.0–.84 31.51N 140.18E 93 5.5b,4.5s
NEIC II 23 22 14 05.7–.65 31.46N 140.15E 107–5 5.3b,4.5s
GCMT II 23 22 14 05.7–.10 31.46N 140.45E 90–1 5.4W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ43.00000°,λ-52.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ-120.00000°. $M_0$1.41000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.3km az=164.7.
IDC Error ellipse: s-maj=10.5km s-min=6.3km az=70.0.
MOS Error ellipse: s-maj=6.9km s-min=3.8km az=102.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=128.0. Recorded [1 JMA] on Aogo-shima and Hachijo-jima. Also recorded [1 JMA] in Chiba, Honshu.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c202; s115,c234; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.01±.02; $M_{\phi\phi}$-0.98±.02; $M_{r\theta}$0.67±.02; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$1.29±.01; Best double couple: NP1:ϕ_s225.00000°,δ89.00000°,λ-126.00000°. NP2:ϕ_s133.00000°,δ36.00000°,λ-1.00000°. Principal axes: T 1.4100,Plg34.0000°,Azm345.0000°; N 0.5850,Plg36.0000°,Azm225.0000°; P -1.9990,Plg36.0000°,Azm104.0000° $M_0$1.70500×10^{17}
JMA II 24 10 41 18.6–.50 32.02N 142.36E 0 3.7
¶600532197
JMA Error ellipse: s-maj=5.6km s-min=5.7km az=-1.0.
ISC II 24 21 08 01.3–.62 31.99N–.06 138.08E–.07 380 3.3b 50 2-72
ISCJB II 24 21 08 00.6–.33 32.02N–.04 138.07E–.05 380 3.3b **¶17192805**
JMA II 24 21 08 00.2–.30 32.08N 138.13E 403 3.4
IDC II 24 21 08 02.0–.72 31.97N 137.95E 380–7 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=5.0km az=165.7.
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=14.1km az=139.0.
ISC II 26 00 16 56.5–.55 30.47N–.04 141.3E–.10 10 4.2b 36 3-85
ISCJB II 26 00 16 54.7–.43 30.55N–.03 141.23E–.10 10 4.3s,4.1b **¶16363032**
JMA II 26 00 16 54.3–.20 30.66N 142.29E 48 4.1,4.1b
IDC II 26 00 16 55.4–2.4 30.44N 141.18E 0 4.0s,3.9
NEIC II 26 00 16 56.9–.28 30.42N 141.19E 10 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=4.3km az=171.2.
JMA Error ellipse: s-maj=2.2km s-min=6.7km az=-1.0.
IDC Error ellipse: s-maj=154.7km s-min=22.8km az=78.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.2km az=83.0.
ISC II 27 14 38 31.2–.69 31.86N–.05 141.74E–.08 29 3.6b 39 2-93
NIED II 27 14 38 00 32.10N 141.80E 5 3.6W **¶17192953**
JMA II 27 14 38 27.8–.30 32.08N 141.85E 0 3.6
IDC II 27 14 38 27.4–.80 31.79N 141.74E 0 3.8,3.6L
ISCJB II 27 14 38 28.6–.47 31.88N–.03 141.85E–.08 29 3.6b,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ45.00000°,λ124.00000°. NP2:ϕ_s150.00000°,δ54.00000°,λ61.00000°. $M_0$2.39000×10^{14}
ISCJB Event type ke.
ISC II 27 15 15 42.5–.86 32.33N–.08 138.5E–.10 368 3.0b 23 1-72
JMA II 27 15 15 36.7–.60 31.96N 138.41E 386 3.3 **¶17192958**
ISCJB II 27 15 15 41.3–.54 32.34N–.06 138.4E–.10 368 3.1b
IDC II 27 15 15 43.1–.88 32.28N 138.20E 349–15 3.9,3.1
ISC Event type ke.
JMA Error ellipse: s-maj=7.8km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.1km az=157.2.
IDC Error ellipse: s-maj=42.4km s-min=15.9km az=69.0.
ISC II 28 01 06 04.0–.94 30.08N–.07 139.5E–.10 388 33 4-54
IDC II 28 01 06 03.3–1.4 29.79N 139.01E 374–41 4.1,3.6b **¶17192973**
ISCJB II 28 01 06 04.2–.60 30.07N–.04 139.5E–.10 388 3.8b,3.6b
JMA II 28 01 06 04.3–.10 30.09N 139.68E 399 3.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=104.6km s-min=15.9km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=4.9km az=165.8.
JMA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
ISC II 28 02 03 27.6–.61 32.46N–.04 142.38E–.04 35–2 5.1b,4.3s 556 2-152
NIED II 28 02 03 00 32.50N 142.40E 5 4.7W,4.3s **¶16166753**
IDC II 28 02 03 22.2–.41 32.45N 142.48E 0 4.9,4.9
ISCJB II 28 02 03 24.2–.89 32.41N–.02 142.34E–.02 21–6 5.0b,4.4s
MOS II 28 02 03 25.8–.88 32.44N 142.42E 33 5.3b,4.4s
BJI II 28 02 03 26.0 32.46N 142.17E 29 5.1b,5.1b
JMA II 28 02 03 26.9–.20 32.52N 142.38E 67 4.7,5.1b
NEIC II 28 02 03 26.2–1.6 32.36N 142.38E 26–11 5.1b,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ42.00000°,λ-87.00000°. NP2:ϕ_s350.00000°,δ48.00000°,λ-92.00000°. $M_0$1.16000×10^{16}
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=32.2.
MOS Error ellipse: s-maj=8.6km s-min=4.2km az=120.1.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=117.0.
IDC II 28 04 35 28.1–2.6 30.56N 141.43E 0 3.7,3.6L
¶17192980
IDC Error ellipse: s-maj=119.4km s-min=22.5km az=76.0.
ISC III 01 09 23 18.5–1.3 32.00N–.09 139.75E–.07 35 3.6b 18 1-150
IDC III 01 09 23 16.2–1.2 31.96N 139.75E 0 3.9,3.6b **¶17193057**
JMA III 01 09 23 17.5 32.06N 139.72E 26–1 3.3,3.6b
ISCJB III 01 09 23 19.0–.97 32.01N–.06 139.56E–.06 35 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 01 23 25 24.7–.59 32.95N–.05 141.65E–.06 38–2 4.4b,3.8s 99 2-148
NIED III 01 23 25 00 33.00N 141.60E 56 4.3W,3.8s **¶16442163**
ISCJB III 01 23 25 25.5–.68 33.01N–.03 141.56E–.05 59–5 4.3b,4.0s
JMA III 01 23 25 26.1–.10 33.04N 141.55E 60 4.7,4.0s
NEIC III 01 23 25 26.1–.71 33.01N 141.58E 50–6 4.6b,4.0s
IDC III 01 23 25 27.4–1.7 33.01N 141.54E 60–14 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ41.00000°,λ-8.00000°. NP2:ϕ_s250.00000°,δ85.00000°,λ-131.00000°. $M_0$2.85000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.3km az=169.3.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.6km az=93.0.
IDC Error ellipse: s-maj=13.3km s-min=11.0km az=85.0.
ISC III 02 13 57 12.5–.90 32.54N–.07 139.94E–.09 128 3.7b 28 1-77
ISCJB III 02 13 57 11.3–.61 32.49N–.05 140.00E–.09 128 3.7b **¶17193134**
IDC III 02 13 57 12.5–.82 32.50N 139.83E 127–12 3.8,3.4
JMA III 02 13 57 13.2–.20 32.61N 140.00E 134–2 3.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.5km az=10.2.
IDC Error ellipse: s-maj=82.5km s-min=14.7km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=4.7km az=-1.0.
JMA III 03 07 37 26.6–.40 32.93N 138.39E 318 3.5
¶602649155
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
ISC III 03 10 38 34.0–1.2 32.3N–.10 138.2E–.10 376 21 2-52
JMA III 03 10 38 32.8–.40 32.01N 138.29E 366 3.3 **¶17193182**
ISCJB III 03 10 38 33.0–.93 32.18N–.10 138.3E–.10 376 2.6b
IDC III 03 10 38 34.9–3.8 32.21N 137.97E 377–120 3.3,2.7
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=8.8km az=44.6.
IDC Error ellipse: s-maj=257.3km s-min=29.7km az=63.0.
ISC III 05 19 08 54.8–1.7 31.1N–.10 142.7E–.30 37 14 4-55
IDC III 05 19 08 55.6–3.6 30.48N 140.26E 0 3.6,3.5b **¶602649948**
JMA III 05 19 08 58.0–.30 31.34N 142.54E 143 2.9,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=239.0km s-min=32.3km az=83.0.
JMA Error ellipse: s-maj=3.3km s-min=4.7km az=-1.0.
ISC III 06 14 23 23.8–.58 32.21N–.06 141.84E–.08 29 3.8b 48 2-93
JMA III 06 14 23 19.3–.20 32.36N 141.90E 0 3.8 **¶16339072**
IDC III 06 14 23 19.5–.65 32.22N 141.84E 0 3.9,3.8
ISCJB III 06 14 23 21.4–.38 32.20N–.03 141.88E–.06 29 3.8b,3.8
NEIC III 06 14 23 22.6–2.6 32.21N 141.83E 20–16 4.1b,3.8
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=14.4km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=3.6km az=153.7.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.0km az=76.0.
ISC III 06 17 57 35.0–.69 30.21N–.07 139.1E–.10 421 3.2b 35 3-82
ISCJB III 06 17 57 33.9–.41 30.14N–.04 138.98E–.08 421 3.1b **¶17193369**
IDC III 06 17 57 34.9–.63 30.13N 139.04E 421–9 3.7,3.0
JMA III 06 17 57 35.7–.20 30.25N 139.52E 432 3.5,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.0km az=171.4.
IDC Error ellipse: s-maj=20.3km s-min=8.9km az=73.0.
JMA Error ellipse: s-maj=2.2km s-min=4.8km az=-1.0.
ISC III 06 20 35 34.5–.80 32.30N–.05 141.91E–.08 10 4.0b 30 2-82
NIED III 06 20 35 00 32.40N 141.90E 5 3.8W **¶17193379**
ISCJB III 06 20 35 33.5–.61 32.26N–.05 141.92E–.08 10 3.8b
IDC III 06 20 35 33.6–.91 32.22N 141.88E 0 3.9,3.8
JMA III 06 20 35 34.1–.20 32.37N 141.87E 1 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ36.00000°,λ88.00000°. NP2:ϕ_s1.00000°,δ54.00000°,λ92.00000°. $M_0$6.08000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.3km az=154.0.
IDC Error ellipse: s-maj=29.2km s-min=16.4km az=66.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC III 07 11 55 44.3–.62 29.56N–.06 141.2E–.20 67 3.9b 34 3-95
NIED III 07 11 55 00 29.70N 141.60E 47 4.1W **¶16451952**
IDC III 07 11 55 36.4–.72 29.66N 141.06E 0 4.1,3.9
NEIC III 07 11 55 43.8–.75 29.54N 141.17E 56–7 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ20.00000°,λ21.00000°. NP2:ϕ_s335.00000°,δ83.00000°,λ109.00000°. $M_0$1.44000×10^{15}
IDC Error ellipse: s-maj=35.8km s-min=16.4km az=100.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=7.1km az=77.0.
ISC III 07 22 44 58.5–.95 31.63N–.09 138.7E–.10 400 3.1b 46 2-73
JMA III 07 22 44 56.7–.40 31.46N 138.65E 407 3.4 **¶17193438**
ISCJB III 07 22 44 57.1–.67 31.51N–.06 138.71E–.09 400 3.1b
IDC III 07 22 44 57.9–.80 31.36N 138.51E 396–18 3.7,3.0
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=6.6km az=30.9.
IDC Error ellipse: s-maj=50.3km s-min=12.9km az=67.0.
ISC III 08 20 16 50.2–1.5 32.34N–.09 141.9E–.10 39 3.3b 10 2-56
JMA III 08 20 16 48.6–.50 32.43N 141.95E 26 3.5 **¶17193492**
ISCJB III 08 20 16 48.3–1.1 32.39N–.06 142.0E–.10 39 3.3b
IDC III 08 20 16 51.2–2.5 31.59N 140.33E 0 3.4,3.3b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=8.8km az=171.7.
IDC Error ellipse: s-maj=115.8km s-min=18.5km az=79.0.
ISC III 10 21 44 15.7–.79 30.78N–.06 139.2E–.10 400 3.1b 33 2-54
JMA III 10 21 44 14.2–.20 30.83N 139.11E 426 3.3 **¶17193661**
ISCJB III 10 21 44 15.0–.44 30.76N–.04 139.06E–.09 400 3.0b
IDC III 10 21 44 16.2–.82 30.82N 138.85E 381–21 3.8,3.0
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.2km az=166.7.
IDC Error ellipse: s-maj=56.2km s-min=12.1km az=68.0.
IDC III 12 04 40 58.2–1.4 30.26N 141.03E 0 3.9,3.7
¶17194254
IDC Error ellipse: s-maj=50.9km s-min=32.1km az=89.0.
JMA III 12 20 49 21.3–.10 33.19N 139.12E 23–4 3.5
NIED III 12 20 49 00 33.20N 139.10E 5 3.7W **¶600542413**
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ68.00000°,λ-178.00000°. NP2:ϕ_s19.00000°,δ88.00000°,λ-22.00000°. $M_0$4.37000×10^{14}
JMA III 12 20 53 50.5–.10 33.19N 139.09E 16–3 3.6
¶602655211

JMA III 12 22 32 44.4–.20 33.19N 139.09E 7–4 3.2
¶16310859

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 13 21 46 55.1–1.3 32.22N 142.48E 0 3.8,3.7
¶17194992

IDC Error ellipse: s-maj=37.0km s-min=23.0km az=79.0.
ISC III 16 14 55 03.4–1.4 33.07N–.08 140.99E–.10 35 4.0b 15 1-61
ISCJB III 16 14 55 01.8–.97 33.07N–.06 141.04E–.08 35 4.0b **¶17196474**
IDC III 16 14 55 03.0–1.0 32.62N 139.10E 0 4.1,3.9
JMA III 16 14 55 05.0–.20 33.22N 140.85E 53 3.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.1km az=12.3.
IDC Error ellipse: s-maj=26.4km s-min=15.2km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC III 16 15 57 40.7–.90 31.7N–.10 140.9E–.20 57 4.0b 8 5-94
IDC III 16 15 57 33.7–1.1 31.81N 141.00E 0 4.3,3.9 **¶16427630**
NEIC III 16 15 57 38.7–.75 31.81N 140.97E 35 4.2b,3.9
ISCJB III 16 15 57 39.3–.79 31.7N–.10 140.8E–.20 57 4.0b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 16 18 23 08.8–.41 29.42N–.03 141.90E–.04 26–2 5.0b,4.5s 465 2-151
NIED III 16 18 23 00 29.40N 142.20E 32 5.0W,4.5s **¶602663999**
BJI III 16 18 23 03.7 29.30N 142.12E 24 5.1b,4.8b
ISCJB III 16 18 23 06.0–.90 29.38N–.02 141.77E–.03 16–6 5.0b,4.5s
JMA III 16 18 23 06.6–.10 29.42N 142.16E 33 4.8,4.5s
MOS III 16 18 23 07.5–.95 29.40N 141.84E 33 5.2b,4.4s
GCMT III 16 18 23 08.5–.30 29.47N 141.98E 28–0 5.1W,4.4s
IDC III 16 18 23 08.8–2.9 29.37N 141.84E 26–19 4.9,4.8
NEIC III 16 18 23 08.5–.51 29.36N 141.81E 23–3 5.0b,4.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ45.00000°,λ-5.00000°. NP2:ϕ_s238.00000°,δ86.00000°,λ-135.00000°. $M_0$3.29000×10^{16}
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=173.3.
JMA Error ellipse: s-maj=1.1km s-min=4.8km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=5.2km az=110.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c51; s79,c142; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.08±.22 $M_{\theta\theta}$0.39±.12; $M_{\phi\phi}$-3.47±.15; $M_{r\theta}$3.27±.24; $M_{\theta\phi}$-2.34±.09; $M_{\phi r}$1.37±.23; Best double couple: NP1:ϕ_s54.00000°,δ69.00000°,λ120.00000°. NP2:ϕ_s176.00000°,δ36.00000°,λ38.00000°. Principal axes:
T 5.2740,Plg56.0000°,Azm2.0000°; N 0.1950,Plg28.0000°,Azm222.0000°
; P -5.4700,Plg19.0000°,Azm122.0000° $M_0$5.37200×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=9.6km az=84.0.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.1km az=131.0.
ISC III 16 22 00 20.6–1.3 32.6N–.10 142.4E–.10 52 3.7b 11 2-56
IDC III 16 22 00 14.1–1.2 32.45N 142.56E 0 4.0,3.8 **¶17196547**
JMA III 16 22 00 17.5–.60 32.64N 142.58E 58 4.1,3.8
ISCJB III 16 22 00 18.3–1.0 32.59N–.09 142.5E–.10 52 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 20 37 47.9–1.2 33.88N 138.37E 0 3.7,3.5
¶17196803

IDC Error ellipse: s-maj=39.5km s-min=19.5km az=61.0.
IDC III 17 21 33 35.7–1.3 32.15N 141.97E 0 3.7,3.5
¶17196818

IDC Error ellipse: s-maj=30.4km s-min=25.7km az=58.0.
ISC III 19 03 45 12.4–1.0 32.1N–.20 141.8E–.10 29 3.7b 9 2-93
IDC III 19 03 45 07.8–.95 32.01N 141.92E 0 3.8,3.6 **¶17197128**
ISCJB III 19 03 45 10.4–.85 32.0N–.10 141.8E–.10 29 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 14 32 31.3–.77 30.47N–.09 138.2E–.10 477 3.2b 14 3-79
ISCJB III 19 14 32 30.4–.56 30.49N–.08 138.2E–.10 477 3.2b **¶17197258**
IDC III 19 14 32 31.9–1.0 30.52N 138.11E 475–15 3.8,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=9.2km az=151.8.
IDC Error ellipse: s-maj=29.8km s-min=13.2km az=76.0.
JMA III 20 05 55 15.0 33.52N 139.51E 26–2 3.6
¶602677899
IDC III 20 12 02 02.1–1.3 32.23N 142.97E 0 4.0,4.0
¶17197455

IDC Error ellipse: s-maj=33.5km s-min=23.0km az=83.0.
ISC III 20 18 35 39.4–.57 30.71N–.07 137.95E–.08 500 4.0b 81 3-119
JMA III 20 18 35 38.3–.30 30.75N 137.92E 516–5 4.0 **¶16462006**
ISCJB III 20 18 35 38.1–.29 30.62N–.04 137.92E–.05 500 4.0b
BJI III 20 18 35 39.5 30.60N 137.52E 495 4.8b,4.5b
IDC III 20 18 35 40.3–1.1 30.63N 137.63E 496–12 4.2,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=34.8.
IDC Error ellipse: s-maj=13.6km s-min=9.5km az=91.0.
IDC III 21 04 22 14.6–1.1 33.92N 139.91E 0 4.2L,3.9
¶17197623

IDC Error ellipse: s-maj=37.2km s-min=24.4km az=58.0.
ISC III 22 14 56 32.8–.56 29.98N–.06 139.36E–.09 400 3.7b 67 3-96
ISCJB III 22 14 56 31.6–.30 29.90N–.03 139.21E–.06 400 3.7b **¶17198023**
JMA III 22 14 56 31.9–.30 29.98N 139.57E 417–5 3.9
IDC III 22 14 56 32.0–.65 29.88N 139.09E 387–7 4.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.1km az=169.9.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=7.5km az=77.0.
IDC III 25 05 15 44.0–6.6 29.04N 139.99E 0 4.4,4.2
¶17198452

IDC Error ellipse: s-maj=262.9km s-min=29.3km az=65.0.
ISC III 26 05 37 51.0–.62 32.6N–.10 142.68E–.07 35 4.3b 48 2-153
IDC III 26 05 37 45.6–1.6 32.54N 142.77E 0 4.0,3.8L **¶16480935**
ISCJB III 26 05 37 49.5–.53 32.60N–.10 142.66E–.06 35 4.4b,3.8L
NEIC III 26 05 37 50.7–2.4 32.65N 142.74E 30–16 5.0b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=42.7km s-min=19.6km az=3.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=6.4km az=8.8.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=195.0.
IDC III 26 12 07 48.4–4.2 30.84N 143.04E 0 3.6,3.6
¶17198635

IDC Error ellipse: s-maj=136.6km s-min=19.1km az=70.0.
ISC III 28 07 04 06.0–.74 32.6N–.10 142.4E–.10 52 3.8b 26 2-92
IDC III 28 07 03 58.5–.70 32.43N 142.65E 0 3.9,3.7L **¶17198915**
JMA III 28 07 04 00.5–.90 32.63N 142.30E 0 3.9,3.7L
ISCJB III 28 07 04 03.8–.58 32.56N–.08 142.4E–.10 52 3.7b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 21 41 42.7–.82 32.62N–.08 142.54E–.08 52 3.8b 34 2-92
NIED III 28 21 41 00 32.60N 142.70E 11 3.9W **¶17198996**
IDC III 28 21 41 35.1–.85 32.38N 142.68E 0 3.9,3.7
JMA III 28 21 41 37.9–.50 32.58N 142.69E 80 3.5,3.7
ISCJB III 28 21 41 41.7–.75 32.75N–.07 142.54E–.06 52 3.7b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ24.00000°,λ-55.00000°. NP2:ϕ_s181.00000°,δ71.00000°,λ-104.00000°. $M_0$8.73000×10^{14}
ISCJB Event type ke.
ISC III 30 00 06 19.2–.41 32.50N–.05 142.72E–.07 35 4.4b,3.8s 89 3-152
NIED III 30 00 06 00 32.50N 142.70E 5 4.7W,3.8s **¶602704433**
IDC III 30 00 06 14.2–.44 32.49N 142.76E 0 4.4,4.3
JMA III 30 00 06 15.7–.30 32.55N 142.74E 63 4.4,4.3
ISCJB III 30 00 06 17.7–.31 32.54N–.04 142.60E–.05 35 4.4b,3.8s
NEIC III 30 00 06 19.3–.26 32.49N 142.75E 35 4.6b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ14.00000°,λ-101.00000°. NP2:ϕ_s202.00000°,δ76.00000°,λ-87.00000°. $M_0$1.49000×10^{16}

IDC Error ellipse: s-maj=13.8km s-min=10.7km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.4km az=44.1.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.7km az=78.0.
IDC III 30 21 24 38.4–.81 29.83N 139.47E 291–8 3.9,3.5
¶17199229

IDC Error ellipse: s-maj=19.2km s-min=8.8km az=72.0.
ISC III 31 05 40 39.2–.60 32.32N–.06 142.62E–.09 10 4.0b 43 2-92
ISCJB III 31 05 40 38.1–.48 32.42N–.05 142.66E–.07 10 3.9b **¶16475904**
IDC III 31 05 40 38.4–.70 32.40N 142.71E 0 4.0,3.9L
JMA III 31 05 40 39.3–.40 32.63N 142.56E 0 4.0,3.9L
NEIC III 31 05 40 39.8–.44 32.39N 142.75E 10 4.5b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.7km az=141.7.
IDC Error ellipse: s-maj=20.4km s-min=16.5km az=82.0.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.9km az=65.0.
ISC III 31 05 45 37.0–.59 32.35N–.06 142.5E–.10 10 4.1b 36 2-92
IDC III 31 05 45 35.8–.68 32.40N 142.66E 0 4.1,4.0 **¶16475905**
ISCJB III 31 05 45 35.6–.47 32.41N–.06 142.55E–.09 10 4.0b,3.3s
JMA III 31 05 45 38.4–.50 32.83N 142.58E 0 4.2,3.3s
NEIC III 31 05 45 40.9–.38 32.38N 142.56E 35 4.4b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=16.1km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=6.0km az=148.4.
JMA Error ellipse: s-maj=5.6km s-min=4.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.6km az=69.0.
ISC III 31 06 39 13.8–.71 32.30N–.08 142.3E–.10 52 3.8b 14 5-92
ISCJB III 31 06 39 11.8–.60 32.25N–.06 142.3E–.10 52 3.7b **¶17199262**
IDC III 31 06 39 12.7–4.4 32.34N 142.56E 37–41 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=8.1km az=172.0.
IDC Error ellipse: s-maj=35.0km s-min=24.4km az=27.0.
ISC III 31 07 05 39.9–.57 32.33N–.06 142.55E–.09 52 4.0b 32 2-92
IDC III 31 07 05 33.9–.73 32.41N 142.70E 0 4.0,3.9L **¶16475918**
NEIC III 31 07 05 38.8–.37 32.41N 142.62E 35 4.2b,3.9L
ISCJB III 31 07 05 38.0–.42 32.28N–.04 142.57E–.07 52 3.9b,3.9L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 31 07 36 31.1–.75 32.56N–.04 142.68E–.04 23–5 4.8b,4.8s 716 2-152
IDC III 31 07 36 27.2–.38 32.47N 142.69E 0 4.6,4.5 **¶16399900**
ISCJB III 31 07 36 27.0–1.0 32.47N–.03 142.59E–.02 6–6 4.8b,4.7s
GCMT III 31 07 36 31.2–.60 32.60N 142.64E 15 5.1W,4.7s
NEIC III 31 07 36 31.2–1.6 32.43N 142.62E 23–11 4.9b,4.7s
MOS III 31 07 36 32.8–.86 32.84N 142.64E 33 5.0b,4.7s
JMA III 31 07 36 32.1–.30 32.62N 142.47E 46 4.6,4.7s
BJI III 31 07 36 35.3 32.70N 142.01E 38 5.5b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=9.8km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=5.7.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c10; s74,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.89±.20 $M_{\theta\theta}$-0.12±.17; $M_{\phi\phi}$3.01±.15; $M_{r\theta}$2.82±.77; $M_{\theta\phi}$-0.60±.13; $M_{\phi r}$3.18±.60; Best double couple: NP1:ϕ_s207.00000°,δ74.00000°,λ-69.00000°. NP2:ϕ_s332.00000°,δ26.00000°,λ-142.00000°. Principal axes:
T 4.4890,Plg26.0000°,Azm280.0000°; N 1.2230,Plg20.0000°,Azm20.0000°
; P -5.7110,Plg56.0000°,Azm144.0000° $M_0$5.10000×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=129.0.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=110.3.
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
ISC III 31 07 41 56.1–.50 32.32N–.06 142.68E–.08 35 4.2b 46 3-148
IDC III 31 07 41 51.1–.59 32.36N 142.78E 0 4.2,4.0 **¶16459656**
ISCJB III 31 07 41 54.5–.37 32.37N–.05 142.58E–.06 35 4.1b,4.0
NEIC III 31 07 41 56.4–.43 32.41N 142.64E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=14.5km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.7km az=138.2.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.8km az=54.0.
ISC III 31 15 21 58.3–.58 29.49N–.06 138.82E–.09 450 3.4b 48 4-82
JMA III 31 15 21 57.0–.20 29.54N 139.17E 511 3.3 **¶16459661**
IDC III 31 15 21 59.1–.63 29.52N 138.83E 464–8 3.9,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=8.2km az=79.0.
JMA III 31 16 30 42.1–.40 32.66N 142.47E 0 3.7
IDC III 31 16 30 45.7–11 32.08N 141.08E 0 3.5,3.5 **¶17199315**
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=266.8km s-min=91.2km az=91.0.
ISC IV 01 12 08 25.3–.88 32.36N–.07 142.4E–.10 52 3.7b 14 2-92
IDC IV 01 12 08 19.2–1.0 32.44N 142.74E 0 4.0,3.8 **¶17199415**
ISCJB IV 01 12 08 23.8–.78 32.50N–.08 142.5E–.10 52 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 23 28 24.2–.91 33.53N–.05 140.15E–.10 104–7 3.8b 30 0-76
NIED IV 01 23 28 00 33.60N 140.10E 104 3.9W **¶17199467**
ISCJB IV 01 23 28 23.7–.68 33.55N–.05 140.1E–.10 110–4 3.8b
IDC IV 01 23 28 24.4–.96 33.47N 140.05E 104–5 3.8,3.6
JMA IV 01 23 28 25.3–.10 33.60N 140.07E 99–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ61.00000°,λ174.00000°. NP2:ϕ_s170.00000°,δ85.00000°,λ29.00000°. $M_0$6.77000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=6.8km az=165.3.
IDC Error ellipse: s-maj=30.7km s-min=10.6km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC IV 02 11 08 17.2–1.1 30.30N–.08 141.3E–.20 28 3.6b 12 3-75
IDC IV 02 11 08 13.5–1.7 30.30N 141.35E 0 4.2,4.2s **¶17199517**
ISCJB IV 02 11 08 14.9–.86 30.29N–.07 141.3E–.20 28 4.1s,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 08 30 08.0–.99 33.95N–.07 138.59E–.07 264–8 2.8b 28 1-57
IDC IV 03 08 30 01.1–4.5 32.94N 136.48E 115–56 3.6,3.2 **¶17199634**
JMA IV 03 08 30 05.3–.30 33.84N 138.58E 278–3 3.1,3.2
ISCJB IV 03 08 30 06.8–.61 33.94N–.07 138.61E–.08 270–6 2.7b,3.2
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 15 55 26.5–1.1 32.38N–.09 142.3E–.20 52 3.6b 9 2-92
IDC IV 03 15 55 21.0–1.4 32.38N 142.67E 0 3.7,3.6 **¶17199666**
ISCJB IV 03 15 55 25.3–1.0 32.31N–.08 142.2E–.20 52 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 23 32 00.8–1.3 30.28N 138.93E 428–25 3.7,3.0
¶17199716

IDC Error ellipse: s-maj=50.6km s-min=16.6km az=73.0.
ISC IV 04 00 14 05.8–.93 33.82N–.10 138.53E–.08 285–7 3.0b 27 1-75
ISCJB IV 04 00 14 04.9–.65 33.81N–.09 138.55E–.10 290–5 3.0b **¶17199719**
IDC IV 04 00 14 05.5–1.9 33.59N 138.13E 271–18 3.5,3.0
JMA IV 04 00 14 05.8–.20 33.76N 138.57E 280 3.2,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=12.6km az=165.4.
IDC Error ellipse: s-maj=27.5km s-min=18.9km az=79.0.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
JMA IV 07 07 04 14.4–.30 32.17N 137.99E 22 2.7
¶600579824

JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
ISC IV 09 21 14 57.9–.76 29.4N–.10 138.8E–.20 445 3.4b 12 4-75
ISCJB IV 09 21 14 56.7–.59 29.4N–.10 138.6E–.20 445 3.3b **¶17200377**
IDC IV 09 21 14 57.8–1.5 29.45N 138.86E 444–27 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=9.9km az=149.3.
IDC Error ellipse: s-maj=58.8km s-min=13.9km az=77.0.

JMA IV 12 18 39 27.7–.20 31.74N 140.80E 27 3.9
NIED IV 12 18 39 00 31.70N 140.80E 65 3.9W **¶600585798**
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ29.00000°,λ-131.00000°. NP2:ϕ_s146.00000°,δ68.00000°,λ-70.00000°. $M_0$7.01000×10^{14}
IDC IV 14 12 20 22.0–.88 30.49N 141.01E 0 3.9,3.8b
¶17201022
IDC Error ellipse: s-maj=38.4km s-min=16.8km az=82.0.
ISC IV 15 03 19 35.5–.77 30.5N–.10 139.3E–.20 450 3.5b 13 3-82
ISCJB IV 15 03 19 34.7–.62 30.44N–.10 139.2E–.20 450 3.4b **¶17201080**
IDC IV 15 03 19 34.8–.99 30.32N 138.88E 427–17 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=9.4km az=156.0.
IDC Error ellipse: s-maj=53.1km s-min=12.3km az=71.0.
ISC IV 17 08 40 27.0–.67 33.15N–.07 140.1E–.10 100 3.8b 22 0-150
ISCJB IV 17 08 40 26.0–.57 33.14N–.07 140.1E–.10 100 3.8b **¶16505414**
IDC IV 17 08 40 27.5–.69 33.14N 139.95E 98–4 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=9.8km az=161.7.
IDC Error ellipse: s-maj=21.7km s-min=13.6km az=74.0.
ISC IV 18 12 55 41.6–1.1 31.4N–.10 139.0E–.20 450 3.0b 17 2-55
IDC IV 18 12 55 38.4–6.8 30.65N 137.20E 335–138 3.5,2.9 **¶17201413**
ISCJB IV 18 12 55 40.5–.77 31.39N–.09 138.9E–.20 450 2.9b,2.9
JMA IV 18 12 55 42.3–.40 31.42N 138.46E 430 3.2,2.9
ISC Event type ke.
IDC Error ellipse: s-maj=213.7km s-min=20.2km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=22.3km s-min=10.0km az=16.6.
JMA Error ellipse: s-maj=5.6km s-min=4.7km az=-1.0.
ISC IV 23 12 22 50.9–1.2 33.11N–.09 139.9E–.20 139–8 13 0-57
ISCJB IV 23 12 22 49.7–.80 33.09N–.08 140.0E–.20 145–7 3.1b **¶17201878**
IDC IV 23 12 22 49.6–2.2 33.15N 140.51E 127–19 3.4,3.1
JMA IV 23 12 22 52.5–.40 33.20N 139.89E 123–4 3.2,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.4km s-min=13.4km az=4.6.
IDC Error ellipse: s-maj=83.1km s-min=17.4km az=91.0.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
IDC IV 25 01 49 27.2–1.8 32.53N 142.59E 0 3.8,3.7
¶17202000
IDC Error ellipse: s-maj=60.5km s-min=21.2km az=67.0.
ISC IV 25 06 11 30.6–.60 29.61N–.09 141.3E–.20 35 3.7b 18 3-150
ISCJB IV 25 06 11 28.9–.51 29.59N–.08 141.2E–.20 35 3.7b **¶17202020**
IDC IV 25 06 11 31.8–2.2 29.56N 141.30E 49–24 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.4km s-min=8.0km az=161.7.
IDC Error ellipse: s-maj=25.0km s-min=16.7km az=77.0.
ISC IV 27 04 27 55.7–1.4 31.4N–.10 141.7E–.30 40 3.6b 12 2-52
IDC IV 27 04 27 51.5–2.5 31.37N 141.66E 0 3.7,3.7 **¶17202208**
ISCJB IV 27 04 27 52.6–1.2 31.41N–.09 141.9E–.20 40 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 29 09 21 40.7–.76 31.55N–.06 142.3E–.10 49 4.2b 50 3-151
IDC IV 29 09 21 33.9–1.7 31.55N 142.58E 0 3.9,3.9 **¶16649594**
NEIC IV 29 09 21 35.4–.63 31.58N 142.62E 10 4.3b,3.9
JMA IV 29 09 21 36.6–.30 31.59N 142.42E 72 3.9,3.9
ISCJB IV 29 09 21 38.4–.63 31.67N–.05 142.4E–.10 49 4.1b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 29 23 54 55.2–.72 29.81N–.08 138.9E–.10 421 3.4b 15 3-74
ISCJB IV 29 23 54 54.0–.56 29.77N–.07 138.7E–.10 421 3.4b **¶17202422**
IDC IV 29 23 54 55.5–.72 29.83N 138.98E 426–8 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=8.9km az=165.9.
IDC Error ellipse: s-maj=20.7km s-min=9.0km az=85.0.
IDC V 01 01 34 17.3–1.4 31.95N 140.34E 0 3.5,3.3
¶17202491
IDC Error ellipse: s-maj=56.8km s-min=29.2km az=90.0.
IDC V 01 12 33 20.1–2.9 31.87N 141.12E 0 3.5,3.2
¶17202520
IDC Error ellipse: s-maj=296.9km s-min=30.6km az=108.0.
ISC V 02 19 24 28.6–1.3 33.18N–.06 139.06E–.04 7–11 3.6b 29 1-53
NIED V 02 19 24 00 33.10N 139.10E 5 3.6W **¶17202632**
ISCJB V 02 19 24 28.4–1.6 33.10N–.06 139.06E–.04 15–12 3.5b,2.7s
JMA V 02 19 24 28.9–.10 33.14N 139.07E 20 3.5,2.7s
IDC V 02 19 24 38.8–3.5 33.55N 138.51E 43–32 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ51.00000°,λ-159.00000°. NP2:ϕ_s356.00000°,δ74.00000°,λ-41.00000°. $M_0$2.72000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.6km az=14.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=45.2km s-min=27.5km az=77.0.
IDC V 03 00 56 24.7–4.5 30.65N 141.68E 0 3.6,3.6
¶17202650
IDC Error ellipse: s-maj=179.1km s-min=18.3km az=70.0.
ISC V 04 00 23 13.1–.57 29.71N–.06 138.90E–.09 445 3.4b 40 3-96
JMA V 04 00 23 10.0–.20 29.71N 139.34E 495 3.7 **¶16577978**
ISCJB V 04 00 23 12.2–.39 29.71N–.04 138.91E–.07 445 3.3b
IDC V 04 00 23 12.6–.97 29.70N 138.69E 436–9 3.9,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=4.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.4km az=160.0.
IDC Error ellipse: s-maj=14.2km s-min=13.0km az=106.0.
ISC V 04 18 47 44.4–.69 31.47N–.07 142.1E–.10 29 3.6b 16 3-149
IDC V 04 18 47 40.9–.74 31.56N 142.24E 0 3.9,3.8 **¶17202783**
ISCJB V 04 18 47 43.1–.61 31.53N–.08 142.1E–.10 29 4.5s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC V 05 15 31 09.6–.50 30.49N–.05 142.01E–.09 23 4.3b 81 3-94
IDC V 05 15 31 06.2–.59 30.49N 142.03E 0 4.2,4.1 **¶16498613**
ISCJB V 05 15 31 07.8–.34 30.46N–.03 141.96E–.07 23 4.2b,4.2s
NEIC V 05 15 31 08.4–2.5 30.50N 142.02E 14–15 4.4b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=13.0km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=4.1km az=162.7.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.4km az=78.0.
ISC V 09 02 58 11.9–.73 30.21N–.06 138.9E–.10 421 3.5b 32 3-74
JMA V 09 02 58 09.8–.10 30.22N 139.09E 468 3.9 **¶17203099**
ISCJB V 09 02 58 11.2–.42 30.16N–.05 138.81E–.08 421 3.4b
IDC V 09 02 58 12.0–.79 30.23N 138.93E 423–9 4.0,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.8km az=157.5.
IDC Error ellipse: s-maj=24.5km s-min=9.8km az=84.0.
ISC V 12 20 55 10.1–.45 29.57N–.05 141.06E–.10 67 4.2b 68 3-152
NIED V 12 20 55 00 29.50N 141.20E 71 4.2W **¶16560046**
ISCJB V 12 20 55 08.1–.29 29.58N–.03 141.08E–.08 67 4.1b
IDC V 12 20 55 08.4–1.1 29.53N 140.91E 49–11 4.2,4.1
NEIC V 12 20 55 09.8–.92 29.49N 140.91E 64–8 4.5b,4.1
JMA V 12 20 55 09.5–.10 29.55N 141.16E 52 4.5,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ56.00000°,λ37.00000°. NP2:ϕ_s77.00000°,δ60.00000°,λ140.00000°. $M_0$2.23000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=3.1km az=165.8.
IDC Error ellipse: s-maj=17.4km s-min=7.4km az=70.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.8km az=70.0.
JMA Error ellipse: s-maj=3.3km s-min=6.8km az=-1.0.
ISC V 15 10 06 02.9–.52 32.94N–.07 137.22E–.07 400 3.6b 41 2-118
ISCJB V 15 10 06 01.8–.39 32.95N–.05 137.23E–.08 400 3.5b **¶17203685**
IDC V 15 10 06 03.9–.61 33.05N 137.15E 402–6 4.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.7km az=168.5.
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=84.0.
ISC V 18 03 36 47.4–.45 30.90N–.05 141.97E–.07 24 4.4b,3.3s 90 3-149
NIED V 18 03 36 00 30.90N 141.90E 8 4.1W,3.3s **¶16527344**
IDC V 18 03 36 43.8–.54 30.93N 142.01E 0 4.3,4.2
ISCJB V 18 03 36 45.5–.33 30.91N–.03 141.97E–.06 24 4.3b,3.3s
JMA V 18 03 36 45.3–.20 30.89N 141.93E 19 4.4,3.3s
NEIC V 18 03 36 46.7–2.5 30.92N 142.06E 19–15 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ44.00000°,λ136.00000°. NP2:ϕ_s169.00000°,δ61.00000°,λ56.00000°. $M_0$1.83000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=12.6km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=3.7km az=165.2.
JMA Error ellipse: s-maj=2.2km s-min=3.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.8km az=99.0.
IDC V 21 11 12 46.8–37 29.08N 139.73E 473–194 3.7,3.1
¶17204129
IDC Error ellipse: s-maj=538.4km s-min=57.3km az=0.0.
JMA V 22 00 30 37.3–.10 29.30N 140.11E 465 3.6
¶600620385
JMA Error ellipse: s-maj=2.2km s-min=5.8km az=-1.0.
ISC V 22 16 36 34.6–1.0 29.1N–.10 140.6E–.30 90 3.5b 9 2-80
ISCJB V 22 16 36 33.0–.91 29.09N–.10 140.5E–.20 90 3.5b **¶17204240**
IDC V 22 16 36 36.2–1.7 29.15N 140.70E 113–17 4.2s,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.8km s-min=7.0km az=157.2.
IDC Error ellipse: s-maj=42.5km s-min=16.3km az=75.0.
ISC V 25 03 55 17.9–.58 30.59N–.07 140.4E–.20 98 3.9b 24 3-95
ISCJB V 25 03 55 15.8–.48 30.59N–.06 140.5E–.20 98 3.8b **¶17204426**
IDC V 25 03 55 18.7–.76 30.60N 140.47E 105–6 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.2km s-min=6.2km az=162.6.
IDC Error ellipse: s-maj=24.8km s-min=13.0km az=82.0.
JMA V 26 14 53 04.7–.10 29.35N 140.82E 147 3.7
¶600623631
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
ISC V 27 06 45 46.0–.89 33.45N–.09 138.64E–.09 300 3.1b 28 1-94
JMA V 27 06 45 39.3–.20 33.08N 138.70E 311 3.3 **¶17204549**
ISCJB V 27 06 45 42.6–.63 33.44N–.07 138.72E–.09 300 3.0b
IDC V 27 06 45 44.4–2.0 33.21N 138.45E 268–20 3.5,3.1
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.0km az=40.9.
IDC Error ellipse: s-maj=25.3km s-min=16.1km az=86.0.
ISC V 28 08 17 00.2–.56 33.12N–.06 140.87E–.07 38–2 4.3b,3.3s 89 1-149
ISCJB V 28 08 17 00.2–.68 33.14N–.03 140.80E–.05 55–5 4.4b,3.3s **¶16560161**
NEIC V 28 08 17 00.3–1.2 33.08N 140.95E 39–10 4.7b,3.3s
NIED V 28 08 17 00 33.20N 140.80E 59 4.3W,3.3s
JMA V 28 08 17 01.4–.10 33.23N 140.77E 52–4 4.4,3.3s
IDC V 28 08 17 02.2–1.3 33.09N 140.63E 58–10 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=23.1.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=10.5km az=78.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ47.00000°,λ134.00000°. NP2:ϕ_s335.00000°,δ58.00000°,λ53.00000°. $M_0$2.82000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=10.7km az=80.0.
IDC V 29 12 56 49.1–4.1 30.23N 140.75E 0 3.6,3.4
¶17204702
IDC Error ellipse: s-maj=245.1km s-min=33.3km az=81.0.
ISC V 29 14 25 16.3–2.1 30.9N–.20 142.5E–.50 37 3.4b 10 4-55
IDC V 29 14 25 13.9–4.5 30.55N 141.68E 0 3.6,3.4 **¶17204706**
ISCJB V 29 14 25 14.2–1.6 30.9N–.10 142.5E–.50 37 3.4b,3.4
JMA V 29 14 25 19.3–.40 31.19N 142.39E 72 3.7,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=176.2km s-min=21.3km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=61.2km s-min=10.1km az=162.6.
JMA Error ellipse: s-maj=5.6km s-min=6.7km az=-1.0.
IDC V 29 20 52 14.0–2.9 30.42N 139.04E 0 4.0L,3.8
¶17204726
IDC Error ellipse: s-maj=108.7km s-min=27.6km az=74.0.
ISC V 29 23 34 06.4–.70 31.60N–.08 139.51E–.10 200 3.6b 41 2-151
ISCJB V 29 23 34 04.4–.59 31.51N–.05 139.6E–.10 200 3.5b **¶17204731**
IDC V 29 23 34 04.9–1.0 31.43N 139.30E 188–7 3.9,3.6
JMA V 29 23 34 07.2–.40 31.70N 139.57E 201–4 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=6.6km az=18.1.
IDC Error ellipse: s-maj=14.9km s-min=12.5km az=88.0.
JMA Error ellipse: s-maj=3.3km s-min=3.8km az=-1.0.
ISC V 30 11 00 41.1–.54 29.30N–.03 142.19E–.04 41–4 4.9b,4.2s 382 2-151
NIED V 30 11 00 00 29.30N 142.30E 5 4.8W,4.2s **¶16551572**
IDC V 30 11 00 35.2–.45 29.24N 142.22E 0 4.8,4.7
ISCJB V 30 11 00 36.3–.90 29.26N–.02 142.07E–.03 15–6 4.9b,4.2s
JMA V 30 11 00 37.6–.20 29.30N 142.33E 53 4.8,4.2s
MOS V 30 11 00 39.6–1.1 29.28N 142.03E 38 5.1b,4.2s
NEIC V 30 11 00 42.8–.98 29.27N 142.01E 46–9 4.8b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ18.00000°,λ107.00000°. NP2:ϕ_s14.00000°,δ73.00000°,λ85.00000°. $M_0$1.84000×10^{16}
IDC Error ellipse: s-maj=15.6km s-min=10.6km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=5.5.
JMA Error ellipse: s-maj=1.1km s-min=5.8km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=4.6km az=111.1.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.2km az=122.0.
ISC V 31 13 32 17.3–.54 29.24N–.05 142.2E–.10 27 4.1b,3.5s 40 2-94
IDC V 31 13 32 13.7–.62 29.30N 142.29E 0 4.1,4.0 **¶16637526**
ISCJB V 31 13 32 15.9–.41 29.27N–.04 142.3E–.10 27 4.1b,3.5s
NEIC V 31 13 32 16.3–3.7 29.25N 142.37E 18–23 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=14.2km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=5.0km az=174.1.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.5km az=86.0.
ISC VI 01 14 52 22.9–.61 31.29N–.05 140.44E–.09 97 3.8b 47 2-94
ISCJB VI 01 14 52 22.6–.38 31.27N–.03 140.49E–.09 97 3.8b **¶16722584**
JMA VI 01 14 52 23.3–.30 31.33N 140.51E 117–3 3.9
IDC VI 01 14 52 24.2–1.3 31.26N 140.03E 108–10 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=3.6km az=163.1.
JMA Error ellipse: s-maj=3.3km s-min=4.7km az=-1.0.
IDC Error ellipse: s-maj=24.4km s-min=11.7km az=80.0.
JMA VI 05 05 49 24.7–.20 32.21N 142.17E 0 3.8
NIED VI 05 05 49 00 32.20N 142.20E 5 3.6W **¶600631797**
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ24.00000°,λ-77.00000°. NP2:ϕ_s129.00000°,δ66.00000°,λ-96.00000°. $M_0$3.10000×10^{14}
IDC VI 05 16 23 59.3–.99 32.94N 139.93E 72–20 3.2,3.2
¶17205342
IDC Error ellipse: s-maj=45.3km s-min=8.9km az=150.0.
ISC VI 07 19 36 40.4–1.5 32.2N–.20 141.4E–.20 31 3.6b 9 2-59
IDC VI 07 19 36 35.1–1.9 32.27N 141.67E 0 3.7,3.6b **¶17205509**
ISC Event type ke.
IDC Error ellipse: s-maj=61.5km s-min=17.4km az=62.0.
ISC VI 09 03 34 06.0–.74 31.13N–.09 141.6E–.20 37 3.8b 16 3-94
IDC VI 09 03 34 00.3–.79 31.11N 141.67E 0 3.9,3.8b **¶17205590**
ISCJB VI 09 03 34 04.1–.64 31.09N–.07 141.5E–.20 37 4.0b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 09 03 35 38.9–1.0 31.1N–.10 141.5E–.20 37 3.8b 12 2-94
IDC VI 09 03 35 33.4–1.3 31.11N 141.55E 0 3.8,3.7 **¶17205591**
ISCJB VI 09 03 35 37.1–.90 31.09N–.09 141.4E–.30 37 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.

ISC VI 09 09 16 47.0–.61 30.65N–.07 137.81E–.08 477 3.6b 29 3-81
ISCJB VI 09 09 16 46.2–.44 30.63N–.06 137.71E–.10 477 3.5b ¶17205610
IDC VI 09 09 16 47.4–.58 30.63N 137.79E 484–8 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.8km az=160.8.
IDC Error ellipse: s-maj=14.8km s-min=8.5km az=71.0.
ISC VI 13 04 40 44.3–.66 32.42N–.07 141.47E–.07 31 4.0b 41 2-149
JMA VI 13 04 40 38.6–.20 32.36N 141.58E 2 4.0 ¶16720913
ISCJB VI 13 04 40 42.0–.50 32.38N–.05 141.53E–.07 31 3.9b
IDC VI 13 04 40 44.8–3.6 32.37N 141.38E 34–27 3.9,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=149.1.
IDC Error ellipse: s-maj=21.9km s-min=14.5km az=64.0.
ISC VI 15 02 42 26.9–.32 30.36N–.03 138.53E–.04 427–2 4.7b 700 3-152
NIED VI 15 02 42 00 30.30N 138.80E 440 4.8W ¶16601819
ISCJB VI 15 02 42 25.7–.23 30.37N–.02 138.47E–.02 424–2 4.6b
JMA VI 15 02 42 25.4–.30 30.33N 138.82E 438–4 4.3
MOS VI 15 02 42 25.3–.84 30.37N 138.40E 419 4.8b
BJI VI 15 02 42 26.0 30.33N 138.42E 436 5.0b,4.6b
IDC VI 15 02 42 27.1–.47 30.38N 138.47E 427–4 5.1,4.3
NEIC VI 15 02 42 27.1–.10 30.36N 138.39E 427 4.6b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ32.00000°,λ-107.00000°. NP2:ϕ_s320.00000°,δ59.00000°,λ-80.00000°. $M_0$1.84000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=39.5.
JMA Error ellipse: s-maj=3.3km s-min=2.9km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=3.9km az=108.2.
IDC Error ellipse: s-maj=8.0km s-min=5.8km az=88.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.3km az=132.0.
ISC VI 15 03 37 43.9–.76 29.98N–.07 139.3E–.10 388 3.0b 41 3-121
ISCJB VI 15 03 37 43.8–.47 29.91N–.04 139.21E–.08 388 3.2b ¶17206153
JMA VI 15 03 37 43.5–.20 29.93N 139.47E 411 3.6
IDC VI 15 03 37 44.4–1.1 29.88N 139.25E 406–14 3.7,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=4.7km az=159.3.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=37.1km s-min=13.7km az=74.0.
ISC VI 15 22 13 15.6–.44 31.62N–.04 141.76E–.05 33–1 4.6b,3.8s 313 2-149
NIED VI 15 22 13 00 31.90N 141.70E 5 4.5W,3.8s ¶16614407
IDC VI 15 22 13 09.1–.55 31.57N 141.76E 0 4.5,4.4
BJI VI 15 22 13 12.5 31.56N 141.65E 37 4.8b,4.7b
ISCJB VI 15 22 13 13.7–.19 31.50N–.03 141.63E–.04 41 4.7b,3.8s
MOS VI 15 22 13 13.5–1.1 31.57N 141.64E 36 4.9b,3.8s
NEIC VI 15 22 13 14.2–2.1 31.51N 141.67E 31–14 4.8b,3.8s
JMA VI 15 22 13 15.8–.60 31.92N 141.69E 38 3.9,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ39.00000°,λ110.00000°. NP2:ϕ_s338.00000°,δ54.00000°,λ75.00000°. $M_0$6.17000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=12.0km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=155.9.
MOS Error ellipse: s-maj=10.4km s-min=5.1km az=122.9.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=107.0.
JMA Error ellipse: s-maj=3.3km s-min=3.8km az=-1.0.
ISC VI 17 11 10 12.6–.81 30.05N–.07 139.6E–.10 450 3.4b 29 3-62
ISCJB VI 17 11 10 11.1–.50 29.98N–.04 139.6E–.10 450 3.2b ¶17206382
JMA VI 17 11 10 11.2–.30 29.95N 139.61E 450–5 3.8
IDC VI 17 11 10 11.6–.79 29.80N 139.03E 409–12 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=4.8km az=168.4.
JMA Error ellipse: s-maj=2.2km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=32.5km s-min=9.8km az=74.0.
ISC VI 17 18 31 16.4–1.4 32.92N–.05 141.09E–.08 47–16 3.8b 28 1-57
NIED VI 17 18 31 00 33.00N 141.00E 77 3.8W ¶17206405
ISCJB VI 17 18 31 16.5–.92 32.92N–.05 140.99E–.09 65–10 3.8b
JMA VI 17 18 31 17.8–.10 33.01N 140.98E 57 3.5
IDC VI 17 18 31 19.2–2.0 32.77N 140.73E 64–14 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ73.00000°,λ6.00000°. NP2:ϕ_s260.00000°,δ84.00000°,λ163.00000°. $M_0$5.28000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.8km az=179.4.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=37.8km s-min=10.5km az=68.0.
ISC VI 22 23 21 59.7–1.9 32.9N–.10 142.8E–.20 87 3.4b 20 2-53
IDC VI 22 23 21 52.3–11 32.48N 143.07E 0 3.7,3.5 ¶17206787
JMA VI 22 23 21 54.2–.40 32.69N 142.46E 0 3.9,3.5
ISCJB VI 22 23 21 57.0–1.3 32.9N–.10 143.0E–.20 87 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 24 00 14 04.9–.85 29.10N–.07 142.6E–.20 27 3.9b 13 2-70
IDC VI 24 00 14 00.9–1.2 29.10N 142.61E 0 3.9,3.8 ¶16731334
ISCJB VI 24 00 14 03.0–.73 29.15N–.04 142.6E–.20 27 3.9b,3.8
NEIC VI 24 00 14 04.1–3.4 29.10N 142.59E 21–26 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=39.8km s-min=18.2km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=24.1km s-min=6.4km az=1.7.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=9.4km az=85.0.
ISC VI 25 01 14 27.9–.83 33.50N–.07 138.52E–.08 300 3.3b 31 1-71
JMA VI 25 01 14 25.3–.30 33.23N 138.57E 281 3.4 ¶17206896
ISCJB VI 25 01 14 26.5–.54 33.51N–.06 138.59E–.08 300 3.3b
IDC VI 25 01 14 27.9–.56 33.46N 138.45E 289–8 3.8,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.8km az=2.4.
IDC Error ellipse: s-maj=26.8km s-min=9.5km az=70.0.
ISC VI 25 14 22 38.3–.81 32.97N–.08 137.89E–.07 341 3.4b 42 1-95
JMA VI 25 14 22 29.3–.10 32.62N 138.18E 419 3.4 ¶17206923
ISCJB VI 25 14 22 38.7–.57 33.08N–.07 137.83E–.07 341 3.2b
IDC VI 25 14 22 38.5–.68 32.99N 137.86E 346–6 3.8,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.8km az=155.8.
IDC Error ellipse: s-maj=14.9km s-min=12.0km az=51.0.
ISC VI 29 06 47 20.3–1.0 32.3N–.10 137.82E–.09 376 3.3b 25 2-72
JMA VI 29 06 47 20.7–.30 32.28N 137.89E 399 3.4 ¶17207173
IDC VI 29 06 47 21.4–1.6 32.32N 137.78E 392–15 3.8,3.1
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=27.1km s-min=18.4km az=72.0.
ISC VI 29 13 37 57.1–.66 29.61N–.06 141.8E–.10 35 3.7b 42 3-125
NIED VI 29 13 37 00 29.70N 142.10E 5 4.1W ¶17207199
ISCJB VI 29 13 37 55.6–.45 29.62N–.04 141.6E–.10 35 3.8b,3.3s
JMA VI 29 13 37 55.5–.10 29.74N 142.13E 45 4.1,3.3s
IDC VI 29 13 37 58.3–1.9 29.58N 141.54E 43–18 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ15.00000°,λ134.00000°. NP2:ϕ_s321.00000°,δ79.00000°,λ79.00000°. $M_0$1.49000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=3.9km az=166.4.
JMA Error ellipse: s-maj=1.1km s-min=6.8km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=11.3km az=80.0.
ISC VI 30 15 09 55.8–1.0 29.63N–.09 142.4E–.30 24 3.7b 16 3-94
IDC VI 30 15 09 51.8–1.2 29.39N 142.20E 0 3.8,3.8L ¶17207263
JMA VI 30 15 09 53.7–.30 29.79N 142.92E 46 3.8,3.8L
ISCJB VI 30 15 09 55.1–.94 29.74N–.08 142.3E–.30 24 3.6b,3.8L
ISC Event type ke.
ISCJB Event type ke.
IDC VI 30 15 30 01.2–2.7 29.42N 140.19E 0 3.6,3.5 ¶17207265
IDC Error ellipse: s-maj=120.5km s-min=32.5km az=75.0.

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ISC I 01 00 02 34.9–.40 27.38N–.05 143.19E–.05 27 4.8b,3.8s 253 1-149
NIED I 01 00 02 00 27.50N 143.40E 5 4.4W,3.8s ¶15902441
IDC I 01 00 02 29.6–.51 27.25N 143.33E 0 4.6,4.5
BJI I 01 00 02 29.7 27.15N 143.05E 11 5.1b,4.7b
NEIC I 01 00 02 32.0–.20 27.25N 143.17E 10 5.0b,4.7b
MOS I 01 00 02 31.5–1.0 27.15N 143.11E 21 4.8b,4.7b
JMA I 01 00 02 32.2–.20 27.46N 143.41E 42 4.6,4.7b
ISCJB I 01 00 02 34.0–.21 27.51N–.02 143.06E–.03 27 4.8b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ32.00000°,λ-147.00000°. NP2:ϕ_s356.00000°,δ73.00000°,λ-62.00000°. $M_0$5.00000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC I 01 00 15 38.7–1.8 26.55N 142.74E 0 3.9,3.7 ¶17189094
IDC Error ellipse: s-maj=64.7km s-min=15.6km az=66.0.
IDC I 01 00 30 57.9–2.7 27.35N 143.54E 0 3.8,3.7 ¶17189095
IDC Error ellipse: s-maj=123.4km s-min=23.0km az=78.0.
IDC I 01 01 08 08.8–2.8 27.08N 143.16E 0 3.8,3.6 ¶17189097
IDC Error ellipse: s-maj=130.9km s-min=23.2km az=79.0.
IDC I 01 01 14 09.4–2.6 27.01N 142.68E 0 3.7,3.6b ¶17189098
IDC Error ellipse: s-maj=121.5km s-min=23.0km az=79.0.
ISC I 01 01 15 58.9–.75 27.34N–.07 143.41E–.08 10 4.3b 44 1-86
ISCJB I 01 01 15 56.9–.51 27.39N–.04 143.54E–.05 10 4.2b ¶15979815
IDC I 01 01 15 57.5–.95 27.23N 143.40E 0 4.1,3.9
NEIC I 01 01 15 58.6–.48 27.20N 143.40E 10 4.4b,3.9
JMA I 01 01 16 00.7–.10 27.53N 143.34E 18 4.3,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.7km az=41.2.
IDC Error ellipse: s-maj=21.0km s-min=18.0km az=96.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.8km az=95.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 01 01 46 17.0–2.6 26.97N 143.21E 0 3.6,3.5 ¶17189099
IDC Error ellipse: s-maj=115.4km s-min=21.5km az=77.0.
ISC I 01 03 15 51.2–1.2 27.24N–.09 143.5E–.10 10 3.8b 16 1-83
IDC I 01 03 15 49.7–1.2 27.07N 143.48E 0 3.8,3.7 ¶17189102
JMA I 01 03 15 50.5–.20 27.57N 143.42E 0 4.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=19.8km az=72.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 01 03 22 44.9–1.1 27.1N–.10 143.54E–.09 10 3.6b 9 1-80
ISCJB I 01 03 22 43.3–.00 27.2N–.10 143.63E–.09 10 3.7b ¶17189103
IDC I 01 03 22 43.4–1.2 27.11N 143.57E 0 4.0,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=11.2km az=164.7.
IDC Error ellipse: s-maj=28.2km s-min=20.4km az=167.0.
JMA I 01 05 34 09.3 27.34N 143.61E 25–4 3.8 ¶600514410
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC I 01 13 31 38.0–3.9 26.26N 143.11E 0 3.8,3.6L ¶17189136
IDC Error ellipse: s-maj=127.3km s-min=23.8km az=70.0.
ISC I 01 15 26 45.6–.85 26.8N–.10 143.89E–.06 10 3.8b 18 2-149
IDC I 01 15 26 43.9–.80 26.66N 143.91E 0 4.1,3.8 ¶17189141
JMA I 01 15 26 45.6–.20 27.20N 143.89E 0–5 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=19.0km az=80.0.
JMA Error ellipse: s-maj=2.2km s-min=4.0km az=-1.0.
IDC I 01 16 30 14.6–6.7 26.50N 144.09E 0 3.7,3.5 ¶17189145
IDC Error ellipse: s-maj=255.9km s-min=26.2km az=75.0.
ISC I 01 17 49 04.2–1.1 27.0N–.10 143.7E–.10 10 3.5b 11 1-72
ISCJB I 01 17 49 02.1–.81 27.1N–.10 143.79E–.09 10 3.5b ¶17189150
IDC I 01 17 49 02.7–.97 27.01N 143.83E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=11.6km az=175.1.
IDC Error ellipse: s-maj=30.2km s-min=19.9km az=87.0.
ISC I 01 17 50 18.1–.72 27.10N–.07 143.67E–.06 10 3.9b 40 1-149
JMA I 01 17 50 16.5–.30 27.24N 143.73E 2 4.0 ¶16007490
IDC I 01 17 50 16.3–.72 26.94N 143.71E 0 4.1,3.9
ISCJB I 01 17 50 17.8–.59 27.30N–.05 143.70E–.05 10 4.0b,3.9
NEIC I 01 17 50 17.8–.51 26.99N 143.71E 10 4.2b,3.9
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=17.8km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.8km az=142.9.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=10.4km az=215.0.
ISC I 01 17 51 01.1–.72 27.23N–.07 143.47E–.07 10 4.0b 34 1-149
ISCJB I 01 17 50 59.9–.68 27.37N–.05 143.54E–.06 10 4.0b ¶16007493
IDC I 01 17 50 59.4–.72 27.06N 143.52E 0 4.2,4.0
NEIC I 01 17 51 00.8–.60 27.14N 143.51E 10 4.6b,4.0
JMA I 01 17 51 01.6–.20 27.29N 143.59E 48 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.1km az=138.9.
IDC Error ellipse: s-maj=18.1km s-min=15.9km az=154.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=12.1km az=144.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 01 17 57 32.0–.47 27.18N–.05 143.55E–.05 10 4.4b,3.6s 97 1-149
JMA I 01 17 57 29.2–.20 27.37N 143.66E 0 4.7,3.6s ¶16007494
BJI I 01 17 57 30.3 26.70N 143.81E 36 5.0b,4.8s
IDC I 01 17 57 30.4–.51 27.13N 143.52E 0 4.4,4.3
NEIC I 01 17 57 31.9–.34 27.14N 143.52E 10 4.5b,4.3
ISCJB I 01 17 57 31.5–.36 27.38N–.04 143.52E–.04 10 4.4b,3.6s
MOS I 01 17 57 33.5–.87 27.07N 143.56E 33 4.6b,3.6s
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=13.1km az=120.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.5km az=192.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.2km az=41.7.
MOS Error ellipse: s-maj=16.0km s-min=9.4km az=106.7.
ISC I 01 18 53 31.1–1.1 27.34N–.09 143.52E–.09 10 3.7b 15 1-78
ISCJB I 01 18 53 29.9–1.1 27.38N–.09 143.60E–.09 10 3.6b ¶17189151
IDC I 01 18 53 29.1–1.2 27.18N 143.53E 0 3.9,3.6
JMA I 01 18 53 32.4–.20 27.44N 143.40E 3 4.5,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=6.2km az=139.0.
IDC Error ellipse: s-maj=29.6km s-min=20.8km az=149.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 01 19 37 20.9–.67 27.23N–.06 143.42E–.07 10 3.9b 35 1-149
IDC I 01 19 37 19.3–.79 27.06N 143.44E 0 4.1,3.9 ¶16007499
NEIC I 01 19 37 20.7–.47 27.13N 143.45E 10 4.1b,3.9
JMA I 01 19 37 23.0–.10 27.25N 143.47E 44 4.3,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=16.8km az=89.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.9km az=84.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 01 19 58 31.7–1.4 27.15N 143.55E 0 3.8,3.6L ¶17189154
IDC Error ellipse: s-maj=40.1km s-min=27.9km az=79.0.
IDC I 01 20 31 31.2–5.5 26.86N 144.34E 0 3.7,3.5 ¶17189157
IDC Error ellipse: s-maj=223.7km s-min=23.1km az=77.0.
IDC I 01 21 11 41.5–1.4 26.71N 143.93E 0 3.6,3.5 ¶17189160
IDC Error ellipse: s-maj=41.9km s-min=22.7km az=81.0.
IDC I 01 21 14 00.0–1.3 27.00N 144.39E 0 3.7,3.5 ¶17189162

IDC Error ellipse: s-maj=70.7km s-min=25.4km az=100.0.
ISC I 01 23 05 28.4–.64 26.93N–.10 143.64E–.08 10 3.9b 31 1-149
ISCJB I 01 23 05 26.8–.52 27.00N–.07 143.66E–.05 10 3.9b **¶15994757**
IDC I 01 23 05 26.6–.75 26.92N 143.76E 0 4.0L,3.9
NEIC I 01 23 05 28.2–.36 26.95N 143.73E 10 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=6.9km az=174.6.
IDC Error ellipse: s-maj=21.3km s-min=19.4km az=125.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=8.3km az=83.0.
ISC I 01 23 41 06.6–.74 27.11N–.08 143.66E–.08 10 4.1b 25 1-82
ISCJB I 01 23 41 04.6–.54 27.05N–.07 143.76E–.06 10 3.9b **¶16022583**
IDC I 01 23 41 05.0–.68 27.00N 143.79E 0 4.0,3.9
NEIC I 01 23 41 06.4–.46 27.04N 143.76E 10 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.3km az=178.7.
IDC Error ellipse: s-maj=21.1km s-min=14.7km az=89.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.5km az=81.0.
ISC I 01 23 41 20.0–1.0 27.54N–.08 143.0E–.10 35 3.9b 12 1-71
JMA I 01 23 41 13.2 27.42N 143.37E 82–4 4.1 **¶17189168**
IDC I 01 23 41 15.8–.90 26.99N 143.87E 0 4.0,3.9b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=36.1km s-min=16.2km az=86.0.
ISC I 01 23 46 02.6–.65 27.11N–.09 143.72E–.07 10 4.1b 52 1-95
IDC I 01 23 46 00.6–.70 27.04N 143.87E 0 4.0,3.9 **¶16007496**
ISCJB I 01 23 46 01.7–.47 27.28N–.05 143.73E–.04 10 4.0b,3.9
NEIC I 01 23 46 02.4–.26 27.07N 143.82E 10 4.3b,3.9
JMA I 01 23 46 03.2–.20 27.22N 143.77E 36 4.6,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=15.9km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.5km az=153.8.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=6.1km az=156.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 02 00 38 00.8–.92 27.4N–.10 143.47E–.09 10 3.6b 12 1-79
ISCJB I 02 00 37 59.0–.76 27.4N–.10 143.52E–.09 10 3.6b **¶17189173**
IDC I 02 00 37 59.2–.90 27.35N 143.55E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=10.0km az=151.4.
IDC Error ellipse: s-maj=24.1km s-min=19.2km az=121.0.
ISC I 02 01 11 14.1–.58 26.93N–.08 143.64E–.08 10 4.1b 29 1-149
ISCJB I 02 01 11 12.4–.45 26.98N–.06 143.67E–.06 10 4.0b **¶15981211**
IDC I 02 01 11 13.4–.75 26.99N 143.84E 0 4.0,3.9L
NEIC I 02 01 11 14.4–.39 26.95N 143.63E 10 4.2b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=7.2km az=7.4.
IDC Error ellipse: s-maj=30.6km s-min=18.1km az=98.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.9km az=81.0.
IDC I 02 01 38 11.2–2.8 26.16N 141.12E 0 3.9,3.8b
¶17189177
IDC Error ellipse: s-maj=133.5km s-min=28.8km az=81.0.
ISC I 02 01 47 23.8–1.3 27.09N–.09 143.7E–.10 10 3.7b 16 1-59
IDC I 02 01 47 21.5–1.7 26.96N 143.95E 0 3.8,3.7 **¶17189178**
ISCJB I 02 01 47 22.1–1.1 27.16N–.08 143.77E–.08 10 3.8b,3.7
JMA I 02 01 47 25.3 27.24N 143.70E 39 3.8b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=51.1km s-min=19.3km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=7.1km az=143.5.
IDC I 02 02 46 45.6–2.1 26.54N 142.90E 0 3.9,3.7
¶17189180
IDC Error ellipse: s-maj=64.3km s-min=29.7km az=76.0.
ISC I 02 02 48 46.3–.84 27.0N–.10 143.67E–.09 10 4.1b 21 1-86
ISCJB I 02 02 48 44.3–.60 27.03N–.08 143.74E–.07 10 3.8b **¶15981214**
IDC I 02 02 48 44.9–1.1 26.98N 143.77E 0 3.8,3.8L
NEIC I 02 02 48 46.1–.56 27.02N 143.71E 10 4.2b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=8.4km az=5.7.
IDC Error ellipse: s-maj=31.7km s-min=19.3km az=79.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=9.1km az=81.0.
ISC I 02 03 26 31.8–.69 27.41N–.07 143.35E–.07 10 4.0b 40 1-125
IDC I 02 03 26 29.7–.71 27.27N 143.45E 0 4.1,3.9 **¶15981215**
ISCJB I 02 03 26 31.2–.60 27.58N–.05 143.31E–.06 10 4.0b,3.9
NEIC I 02 03 26 31.4–.39 27.30N 143.41E 10 4.4b,3.9
JMA I 02 03 26 32.7–.20 27.43N 143.42E 51 4.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=16.2km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.9km az=35.9.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.6km az=84.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 02 04 01 42.7–.92 26.6N–.10 143.7E–.10 10 3.6b 14 1-149
ISCJB I 02 04 01 40.9–.75 26.6N–.10 143.77E–.09 10 3.6b **¶17189183**
IDC I 02 04 01 41.0–.88 26.61N 143.80E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=10.7km az=21.0.
IDC Error ellipse: s-maj=24.3km s-min=20.6km az=72.0.
ISC I 02 05 23 27.0–.70 26.92N–.09 143.93E–.06 10 3.9b 34 2-148
IDC I 02 05 23 25.1–.66 26.80N 144.06E 0 4.1,3.9 **¶16007501**
NEIC I 02 05 23 26.6–.43 26.84N 144.03E 10 4.3b,3.9
JMA I 02 05 23 33.2–.40 27.53N 143.58E 14 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=16.7km az=71.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.2km az=220.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC I 02 05 52 54.0–.96 27.1N–.10 143.4E–.10 10 3.5b 13 1-149
ISCJB I 02 05 52 52.4–.83 27.2N–.10 143.47E–.09 10 3.7b **¶17189188**
IDC I 02 05 52 53.2–.91 27.13N 143.32E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=11.7km az=164.3.
IDC Error ellipse: s-maj=20.3km s-min=19.6km az=55.0.
ISC I 02 06 37 40.8–.69 27.16N–.07 143.63E–.06 10 3.9b 43 1-95
IDC I 02 06 37 38.6–.76 27.03N 143.68E 0 4.1L,4.0 **¶16007504**
NEIC I 02 06 37 40.4–.39 27.08N 143.67E 10 4.1b,4.0
JMA I 02 06 37 40.5–.30 27.31N 143.75E 28 4.3,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=18.7km az=149.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.5km az=77.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC I 02 07 04 49.1–.46 27.02N–.06 143.71E–.04 10 4.7b,3.5s 173 1-150
NIED I 02 07 04 00 27.30N 143.70E 8 4.4W,3.5s **¶15902786**
BJI I 02 07 04 43.8 26.74N 144.03E 5 5.0b,4.6b
IDC I 02 07 04 47.8–.53 27.04N 143.73E 0 4.5,4.3
ISCJB I 02 07 04 48.9–.27 27.25N–.04 143.68E–.03 10 4.6b,3.6s
MOS I 02 07 04 48.2–.94 27.04N 143.74E 15 4.7b,3.6s
NEIC I 02 07 04 49.4–.23 27.01N 143.67E 10 4.9b,3.6s
JMA I 02 07 04 49.9–.40 27.29N 143.74E 36 4.6,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ22.00000°,λ-78.00000°. NP2:ϕ_s144.00000°,δ69.00000°,λ-95.00000°. M_o4.08000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=14.3km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.5km az=163.7.
MOS Error ellipse: s-maj=13.5km s-min=6.1km az=107.9.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=184.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC I 02 07 06 53.2–.51 27.16N–.07 143.67E–.05 10 4.3b 61 1-149
IDC I 02 07 06 51.6–.49 27.05N 143.74E 0 4.4,4.3 **¶16007505**
NEIC I 02 07 06 53.1–.29 27.07N 143.74E 10 4.7b,4.3
JMA I 02 07 06 54.0–.30 27.27N 143.68E 77 4.2,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=13.3km az=140.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=7.3km az=147.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC I 02 07 18 50.3–.93 27.1N–.10 143.68E–.10 10 3.6b 15 1-79
ISCJB I 02 07 18 48.4–.72 27.0N–.10 143.76E–.08 10 3.6b **¶17189190**
IDC I 02 07 18 48.6–.90 27.02N 143.81E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=10.1km az=177.9.
IDC Error ellipse: s-maj=21.1km s-min=20.1km az=96.0.
ISC I 02 07 22 59.6–.72 27.21N–.07 143.66E–.07 10 3.9b 42 1-149
IDC I 02 07 22 57.9–.66 27.08N 143.77E 0 4.1,3.9 **¶16007506**
JMA I 02 07 22 58.9–.60 27.33N 143.77E 34 4.2,3.9
NEIC I 02 07 22 59.4–.40 27.09N 143.75E 10 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=15.8km az=114.0.
JMA Error ellipse: s-maj=7.8km s-min=4.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=88.0.
IDC I 02 07 44 20.0–7.4 26.87N 143.44E 0 3.8,3.6
¶17189193
IDC Error ellipse: s-maj=309.4km s-min=26.0km az=76.0.
IDC I 02 08 08 11.3–1.1 26.88N 143.33E 0 3.7,3.6
¶17189197
IDC Error ellipse: s-maj=43.7km s-min=21.6km az=83.0.
ISC I 02 08 15 41.6–.74 27.14N–.08 143.66E–.06 10 3.6b 27 1-149
IDC I 02 08 15 39.9–.72 26.98N 143.69E 0 4.0,3.8 **¶17189198**
JMA I 02 08 15 41.5–.40 27.27N 143.75E 22 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=18.3km az=72.0.
JMA Error ellipse: s-maj=5.6km s-min=3.0km az=-1.0.
IDC I 02 08 21 25.1–1.4 26.41N 144.04E 0 3.6,3.3
¶17189199
IDC Error ellipse: s-maj=48.3km s-min=29.5km az=88.0.
IDC I 02 10 31 50.2–1.8 27.04N 143.68E 0 3.7,3.6
¶17189210
IDC Error ellipse: s-maj=41.7km s-min=26.0km az=74.0.
IDC I 02 10 55 10.9–2.2 27.40N 143.51E 0 3.5,3.3
¶17189214
IDC Error ellipse: s-maj=45.2km s-min=26.8km az=82.0.
ISC I 02 11 08 44.8–.87 26.87N–.07 143.74E–.06 10 4.1b 29 1-149
IDC I 02 11 08 43.3–1.0 26.64N 143.71E 0 4.0,3.9 **¶15961489**
NEIC I 02 11 08 44.7–.56 26.67N 143.68E 10 4.4b,3.9
JMA I 02 11 08 46.2–.10 27.12N 143.76E 18 3.7,3.9
ISC Event type se.
IDC Error ellipse: s-maj=38.7km s-min=17.8km az=81.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=9.5km az=76.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 02 11 16 54.3–.89 26.7N–.10 143.82E–.09 10 3.7b 17 2-149
IDC I 02 11 16 53.0–.96 26.55N 143.78E 0 4.3s,4.3 **¶15961488**
NEIC I 02 11 16 54.2–.77 26.66N 143.77E 10 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=26.8km s-min=18.7km az=65.0.
NEIC Event type se. Error ellipse: s-maj=23.1km s-min=12.8km az=73.0.
JMA I 02 11 40 53.6–.10 27.24N 143.79E 37 4.1
¶600514826
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 02 14 02 54.4–.78 26.49N–.09 143.98E–.08 10 3.8b 28 2-149
IDC I 02 14 02 52.8–.78 26.35N 144.07E 0 3.9,3.8L **¶15964331**
NEIC I 02 14 02 54.2–.58 26.39N 144.01E 10 4.3b,3.8L
JMA I 02 14 02 56.0–.10 26.86N 143.95E 11–4 3.8,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=22.8km s-min=18.7km az=94.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=10.8km az=80.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC I 02 15 38 15.5–.67 27.13N–.08 143.41E–.07 10 4.0b 43 1-149
IDC I 02 15 38 13.4–.65 27.02N 143.42E 0 4.1,4.0 **¶15964333**
ISCJB I 02 15 38 14.1–.54 27.24N–.06 143.46E–.05 10 4.0b,4.0
NEIC I 02 15 38 15.1–.38 27.02N 143.45E 10 4.5b,4.0
JMA I 02 15 38 16.7–.10 27.16N 143.36E 81 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=14.5km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=4.8km az=148.5.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.5km az=54.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC I 02 16 28 17.6–1.3 27.20N 143.57E 0 3.6,3.4
¶17189225
IDC Error ellipse: s-maj=28.6km s-min=22.4km az=158.0.
ISC I 02 16 42 52.9–.73 26.95N–.10 143.76E–.06 10 4.0b 41 1-149
IDC I 02 16 42 51.4–.66 26.90N 143.83E 0 4.0,4.0 **¶15964335**
NEIC I 02 16 42 53.0–.45 26.95N 143.78E 10 4.6b,4.0
JMA I 02 16 42 53.8–.10 27.29N 143.70E 13–5 4.6,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=15.5km az=93.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=9.0km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC I 02 17 32 33.6–8.2 26.96N 144.80E 0 3.6,3.6L
¶17189228
IDC Error ellipse: s-maj=309.0km s-min=26.0km az=73.0.
IDC I 02 18 15 50.6–7.5 26.48N 144.29E 0 3.7,3.6L
¶17189230
IDC Error ellipse: s-maj=280.5km s-min=29.9km az=75.0.
IDC I 02 19 36 58.2–7.4 26.64N 144.17E 0 3.7,3.5
¶17189234
IDC Error ellipse: s-maj=280.7km s-min=22.9km az=74.0.
IDC I 02 19 49 33.8–2.1 26.97N 143.29E 0 3.7L,3.5
¶17189235
IDC Error ellipse: s-maj=36.9km s-min=24.9km az=46.0.
ISC I 02 22 57 57.0–.89 27.22N–.09 143.56E–.07 10 3.7b 23 1-79
IDC I 02 22 57 55.1–.82 27.09N 143.69E 0 3.9,3.8 **¶17189265**
JMA I 02 22 57 59.3–.10 27.40N 143.52E 53 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.4km s-min=18.5km az=107.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 02 23 31 40.5–.67 27.44N–.06 143.38E–.06 10 3.9b 53 1-125
IDC I 02 23 31 38.4–.82 27.32N 143.51E 0 4.0,3.9 **¶16007510**
ISCJB I 02 23 31 39.8–.48 27.60N–.03 143.32E–.05 10 4.0b,3.9
NEIC I 02 23 31 40.1–.30 27.34N 143.46E 10 4.1b,3.9
JMA I 02 23 31 44.2 27.53N 143.08E 85–4 3.6,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=17.0km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.5km az=32.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.0km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
ISC I 03 00 16 58.6–.82 26.84N–.09 143.85E–.07 10 4.0b 29 2-149
ISCJB I 03 00 16 57.5–.70 26.98N–.06 143.88E–.05 10 4.4s,3.9b **¶16007512**
IDC I 03 00 16 57.0–.94 26.74N 143.96E 0 4.4,4.4s
NEIC I 03 00 16 58.4–.46 26.79N 143.95E 10 4.4b,4.4s
JMA I 03 00 17 00.2–.20 27.15N 143.73E 9 3.7,4.4s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.2km az=157.6.
IDC Error ellipse: s-maj=26.1km s-min=20.0km az=77.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.4km az=72.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 03 00 45 07.7–15 28.85N 144.07E 0 3.6,3.6
¶17189273
IDC Error ellipse: s-maj=381.2km s-min=118.1km az=89.0.
IDC I 03 00 59 04.2–1.1 26.73N 143.89E 0 3.8,3.5
¶17189275
IDC Error ellipse: s-maj=30.1km s-min=27.1km az=47.0.
IDC I 03 01 50 14.5–3.8 26.19N 141.30E 0 3.6,3.4
¶17189277
IDC Error ellipse: s-maj=169.7km s-min=25.0km az=77.0.
ISC I 03 04 02 08.3–.98 27.1N–.10 143.60E–.09 10 3.6b 12 1-80
ISCJB I 03 04 02 06.3–.76 27.1N–.10 143.67E–.08 10 3.6b **¶17189291**
IDC I 03 04 02 06.5–.93 27.04N 143.71E 0 3.8,3.7L
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=10.6km az=171.7.
IDC Error ellipse: s-maj=23.3km s-min=20.5km az=95.0.
ISC I 03 07 06 30.3–.52 27.46N–.05 143.37E–.06 35 4.3b 121 1-149
NIED I 03 07 06 00 27.80N 143.10E 5 3.8W **¶15927167**
BJI I 03 07 06 19.9 26.92N 144.16E 23 4.9b,4.7s
IDC I 03 07 06 24.8–.57 27.38N 143.39E 0 4.2,4.1
MOS I 03 07 06 24.8–3.1 27.40N 143.40E 33 4.5b,4.1
NEIC I 03 07 06 26.5–.27 27.37N 143.33E 10 4.9b,4.1
ISCJB I 03 07 06 28.9–.41 27.58N–.03 143.30E–.05 33 4.3b,3.4s
JMA I 03 07 06 28.7–.10 27.75N 143.09E 9 4.6,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ31.00000°,λ-39.00000°. NP2:ϕ_s114.00000°,δ71.00000°,λ-115.00000°. $M_0$6.56000×10^{14}
IDC Error ellipse: s-maj=16.1km s-min=13.6km az=96.0.
MOS Error ellipse: s-maj=15.9km s-min=6.8km az=117.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=25.4.
JMA Error ellipse: s-maj=4.4km s-min=3.9km az=-1.0.
IDC I 03 07 23 33.7–2.0 26.90N 143.37E 0 3.7,3.5b
¶16394756
IDC Error ellipse: s-maj=46.9km s-min=28.7km az=35.0.
ISC I 03 07 24 32.8–.58 27.43N–.06 143.33E–.06 10 3.9b 50 1-150
IDC I 03 07 24 31.0–.71 27.36N 143.40E 0 3.9,3.8 **¶17189304**
ISCJB I 03 07 24 31.4–.48 27.51N–.03 143.36E–.05 10 4.0b,3.8
NEIC I 03 07 24 32.6–.27 27.36N 143.38E 10 4.4b,3.8
JMA I 03 07 24 36.6 27.53N 143.05E 82 3.9,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=15.6km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.0km az=32.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.7km az=89.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 03 07 36 35.9–1.4 27.5N–.10 143.4E–.10 10 3.5b 9 1-52
ISCJB I 03 07 36 33.8–1.1 27.50N–.10 143.5E–.10 10 3.5b **¶17189307**
IDC I 03 07 36 34.0–1.9 27.50N 143.55E 0 3.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=12.9km az=36.3.
IDC Error ellipse: s-maj=44.5km s-min=22.4km az=78.0.
IDC I 03 07 39 00.1–2.1 27.40N 143.44E 0 3.7,3.5
¶17189308
IDC Error ellipse: s-maj=48.4km s-min=24.9km az=68.0.
IDC I 03 08 17 33.6–2.7 26.83N 143.47E 0 3.7,3.4
¶17189312
IDC Error ellipse: s-maj=54.2km s-min=21.8km az=45.0.
ISC I 03 08 36 03.5–.54 26.78N–.06 143.83E–.05 10 4.4b 86 1-149
NIED I 03 08 36 00 27.00N 143.80E 5 4.0W **¶15927168**
IDC I 03 08 36 02.0–.62 26.67N 143.82E 0 4.2,4.1b
BJI I 03 08 36 01.1 26.50N 144.10E 10 4.9b,4.7s
ISCJB I 03 08 36 02.1–.43 26.80N–.05 143.88E–.04 10 4.3b,3.9s
MOS I 03 08 36 02.2–.85 26.70N 143.87E 15 4.4b,3.9s
NEIC I 03 08 36 03.5–.32 26.69N 143.91E 10 4.7b,3.9s
JMA I 03 08 36 06.0–.20 26.96N 143.81E 50 4.2,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s126.00000°,δ45.00000°,λ-108.00000°. NP2:ϕ_s331.00000°,δ47.00000°,λ-73.00000°. $M_0$1.25000×10^{15}
IDC Error ellipse: s-maj=19.4km s-min=14.5km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=170.9.
MOS Error ellipse: s-maj=19.6km s-min=7.5km az=120.9.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.9km az=73.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 03 08 39 02.9–.81 27.40N–.09 143.34E–.09 10 3.8b 26 1-149
ISCJB I 03 08 39 00.9–.62 27.42N–.07 143.42E–.06 10 3.9b,3.1s **¶16031086**
IDC I 03 08 39 01.7–.90 27.33N 143.26E 0 3.9,3.8
NEIC I 03 08 39 03.0–.46 27.38N 143.37E 10 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=6.5km az=145.2.
IDC Error ellipse: s-maj=20.2km s-min=18.0km az=108.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.5km az=89.0.
IDC I 03 09 10 59.5–2.0 26.92N 143.82E 0 3.8,3.6
¶17189314
IDC Error ellipse: s-maj=53.9km s-min=21.0km az=67.0.
IDC I 03 09 29 07.0–1.8 27.35N 143.44E 0 3.7,3.7L
¶17189317
IDC Error ellipse: s-maj=42.1km s-min=23.1km az=73.0.
IDC I 03 09 44 43.6–1.3 27.29N 143.34E 0 3.7,3.6L
¶17189320
IDC Error ellipse: s-maj=25.9km s-min=22.5km az=78.0.
ISC I 03 14 05 49.3–1.0 26.8N–.10 143.9E–.10 10 3.5b 11 2-72
ISCJB I 03 14 05 47.3–.84 26.7N–.10 143.95E–.09 10 3.5b **¶17189327**
IDC I 03 14 05 47.7–1.1 26.78N 143.93E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=11.4km az=17.2.
IDC Error ellipse: s-maj=26.0km s-min=20.5km az=80.0.
ISC I 03 14 15 36.3–1.4 27.10N–.08 143.60E–.09 10 3.5b 14 1-54
IDC I 03 14 15 34.7–2.1 26.92N 143.70E 0 3.5,3.5L **¶17189328**
JMA I 03 14 15 39.5–.30 27.20N 143.47E 12 4.0,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=52.9km s-min=23.9km az=64.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 03 14 56 07.2–.53 26.93N–.06 143.84E–.05 10 4.5b 77 1-149
NIED I 03 14 56 00 27.10N 144.10E 5 4.0W **¶15927170**
BJI I 03 14 56 01.5 26.41N 144.14E 10 5.0b,4.6s
IDC I 03 14 56 05.6–.58 26.82N 143.86E 0 4.2,4.1
JMA I 03 14 56 06.3–.30 27.14N 144.06E 21 4.1,4.1
NEIC I 03 14 56 07.3–.27 26.82N 143.78E 10 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ54.00000°,λ-37.00000°. NP2:ϕ_s125.00000°,δ61.00000°,λ-138.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=15.0km az=69.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.4km az=40.0.
ISC I 03 15 01 46.5–.90 27.0N–.10 143.93E–.09 10 3.6b 11 2-79
ISCJB I 03 15 01 44.8–.81 27.0N–.10 144.00E–.09 10 3.6b **¶17189330**
IDC I 03 15 01 44.9–.95 26.90N 144.05E 0 3.8,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=10.9km az=173.0.
IDC Error ellipse: s-maj=25.1km s-min=19.6km az=127.0.
ISC I 03 15 15 24.4–.89 26.9N–.10 143.94E–.10 10 3.9b 17 2-79
ISCJB I 03 15 15 22.4–.69 26.8N–.10 144.00E–.08 10 3.7b **¶17189333**
IDC I 03 15 15 22.5–.81 26.87N 144.05E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=10.4km az=7.6.
IDC Error ellipse: s-maj=20.3km s-min=18.7km az=77.0.
ISC I 03 15 18 07.2–.64 26.96N–.04 143.91E–.04 8–3 4.8b,3.8s 280 2-149
NIED I 03 15 18 00 27.00N 144.10E 5 4.6W,3.8s **¶15902930**
IDC I 03 15 18 05.2–.51 26.83N 143.97E 0 4.5,4.5
BJI I 03 15 18 05.2 26.65N 143.78E 10 4.9b,4.6b
MOS I 03 15 18 06.3–1.0 26.82N 143.94E 19 4.9b,4.6b
JMA I 03 15 18 06.6–.20 27.05N 144.13E 44 4.6,4.6b
NEIC I 03 15 18 06.2–3.4 26.82N 143.87E 5–20 4.9b,4.6b
ISCJB I 03 15 18 06.6–.20 27.07N–.03 143.83E–.03 10 4.7b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ39.00000°,λ-59.00000°. NP2:ϕ_s302.00000°,δ57.00000°,λ-113.00000°. $M_0$8.48000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC I 03 16 18 58.5–1.0 26.79N 143.84E 0 3.9,3.6
¶17189338
IDC Error ellipse: s-maj=25.3km s-min=18.9km az=58.0.
IDC I 03 16 31 47.2–6.0 26.62N 143.31E 0 3.7,3.5b
¶17189340
IDC Error ellipse: s-maj=227.7km s-min=30.6km az=75.0.

ISC I 03 17 04 39.5–.90 27.06N–.08 143.87E–.08 10 4.4s,4.0b 37 2-87
IDC I 03 17 04 37.2–1.2 26.94N 144.03E 0 4.3,4.3s **¶16017928**
ISCJB I 03 17 04 38.9–.80 27.22N–.06 143.85E–.06 10 4.4s,3.9b
NEIC I 03 17 04 38.9–.60 26.99N 144.00E 10 4.3b,3.9b
JMA I 03 17 04 40.9–.10 27.19N 143.86E 29 4.7,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=23.5km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.3km az=140.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=10.1km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 03 17 09 25.8–.67 27.09N–.07 143.76E–.06 10 4.0b 43 1-149
IDC I 03 17 09 23.9–.60 26.97N 143.88E 0 4.2,4.0 **¶16017929**
ISCJB I 03 17 09 25.5–.57 27.30N–.05 143.74E–.05 10 4.0b,4.0
NEIC I 03 17 09 25.4–.35 26.98N 143.86E 10 4.6b,4.0
JMA I 03 17 09 25.6–.10 27.14N 143.90E 34 4.2,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=15.3km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=141.2.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.5km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC I 03 17 15 19.7–2.5 26.91N 143.87E 0 3.6,3.4L
¶17189345
IDC Error ellipse: s-maj=61.8km s-min=26.1km az=65.0.
IDC I 03 17 22 44.4–2.6 27.34N 143.45E 0 3.5,3.5L
¶17189346
IDC Error ellipse: s-maj=47.9km s-min=31.8km az=52.0.
IDC I 03 17 47 26.9–2.0 26.98N 143.10E 0 3.8,3.7b
¶17189347
IDC Error ellipse: s-maj=46.4km s-min=22.9km az=58.0.
IDC I 03 18 04 56.7–1.7 26.91N 143.67E 0 3.9L,3.5
¶17189348
IDC Error ellipse: s-maj=37.6km s-min=20.6km az=58.0.
IDC I 03 18 20 47.2–1.1 26.79N 141.36E 0 3.7,3.6b
¶17189354
IDC Error ellipse: s-maj=27.3km s-min=17.2km az=139.0.
IDC I 03 18 51 54.9–2.4 27.22N 143.40E 0 3.6,3.4b
¶17189355
IDC Error ellipse: s-maj=40.8km s-min=24.8km az=30.0.
ISC I 03 19 26 14.4–.96 27.0N–.10 143.82E–.09 10 3.6b 13 1-79
ISCJB I 03 19 26 12.4–.75 27.06N–.10 143.88E–.08 10 3.6b **¶17189357**
IDC I 03 19 26 12.8–.84 26.99N 143.94E 0 3.9,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=10.5km az=174.8.
IDC Error ellipse: s-maj=22.9km s-min=19.0km az=103.0.
ISC I 03 19 45 34.1–.93 26.9N–.10 143.92E–.09 10 3.9b 19 2-79
ISCJB I 03 19 45 32.0–.67 26.93N–.08 144.01E–.07 10 3.8b **¶16017935**
IDC I 03 19 45 32.4–.89 26.80N 144.01E 0 4.0,3.8b
NEIC I 03 19 45 34.0–.62 26.82N 143.94E 10 4.3b,3.8b
JMA I 03 19 45 37.8 27.47N 143.68E 1 4.3b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=8.4km az=4.1.
IDC Error ellipse: s-maj=25.6km s-min=20.4km az=78.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=11.6km az=72.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 03 20 09 39.3–.95 26.9N–.10 143.92E–.08 10 3.8b 17 2-148
ISCJB I 03 20 09 37.5–.77 26.8N–.10 144.03E–.07 10 3.8b **¶16017936**
IDC I 03 20 09 37.9–.91 26.83N 143.96E 0 3.9,3.8b
NEIC I 03 20 09 39.2–.66 26.85N 143.99E 10 4.2b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=8.8km az=8.3.
IDC Error ellipse: s-maj=22.0km s-min=18.9km az=34.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=12.3km az=57.0.
IDC I 03 20 36 42.8–1.5 27.01N 144.01E 0 3.7,3.4
¶17189361
IDC Error ellipse: s-maj=46.9km s-min=29.0km az=91.0.
ISC I 03 20 40 08.0–.52 27.03N–.06 143.80E–.05 10 4.3b 64 1-149
NIED I 03 20 40 00 27.20N 143.80E 8 4.1W **¶16031097**
IDC I 03 20 40 06.2–.53 26.91N 143.88E 0 4.4,4.3
NEIC I 03 20 40 08.0–.30 26.93N 143.82E 10 4.5b,4.3
JMA I 03 20 40 09.1–.20 27.22N 143.83E 24 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ27.00000°,λ-100.00000°. NP2:ϕ_s152.00000°,δ63.00000°,λ-85.00000°. $M_0$1.79000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=81.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.8km az=60.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 03 21 18 30.4–1.0 26.9N–.10 143.79E–.09 10 3.2b 9 1-80
ISCJB I 03 21 18 28.7–.87 26.8N–.10 143.84E–.10 10 3.2b **¶17189363**
IDC I 03 21 18 28.8–1.0 26.84N 143.90E 0 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.6km s-min=11.7km az=14.0.
IDC Error ellipse: s-maj=26.0km s-min=22.1km az=78.0.
IDC I 03 22 23 06.9–3.1 26.78N 143.15E 0 3.7,3.5b
¶17189365
IDC Error ellipse: s-maj=74.6km s-min=25.6km az=59.0.
IDC I 03 22 47 01.3–7.0 26.90N 144.16E 0 3.7,3.5
¶17189366
IDC Error ellipse: s-maj=258.4km s-min=27.3km az=74.0.
IDC I 03 23 01 53.5–6.2 26.87N 143.55E 0 3.6,3.5
¶17189369
IDC Error ellipse: s-maj=235.4km s-min=24.1km az=74.0.
ISC I 03 23 54 06.8–.82 26.71N–.10 143.89E–.07 10 4.1b 30 2-149
IDC I 03 23 54 03.5–.63 26.42N 143.92E 0 4.0,3.9 **¶16031092**
NEIC I 03 23 54 05.1–.46 26.41N 143.94E 15 4.7b,3.9
JMA I 03 23 54 05.6–.30 26.86N 144.01E 16 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=17.0km az=105.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=8.2km az=76.0.
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
ISC I 04 03 33 59.3–.97 26.8N–.10 143.9E–.20 10 3.6b 8 11-149
ISCJB I 04 03 33 57.4–.90 26.8N–.10 143.8E–.20 10 3.5b **¶17189386**
IDC I 04 03 33 57.8–.94 26.78N 143.91E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.8km s-min=16.7km az=168.7.
IDC Error ellipse: s-maj=33.7km s-min=22.6km az=83.0.
ISC I 04 04 32 26.9–1.2 27.58N–.09 143.4E–.10 10 3.9b 19 1-78
ISCJB I 04 04 32 24.9–.85 27.68N–.06 143.47E–.09 10 3.9b **¶17189388**
IDC I 04 04 32 25.8–1.2 27.59N 143.38E 0 4.0,3.9
JMA I 04 04 32 29.4–.30 27.67N 143.33E 59 3.7,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=5.9km az=32.4.
IDC Error ellipse: s-maj=29.2km s-min=15.9km az=87.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 04 05 01 16.3–.54 27.70N–.05 143.31E–.07 10 4.3b,3.1s 72 1-149
IDC I 04 05 01 14.9–.52 27.56N 143.32E 0 4.3,4.3 **¶16031098**
NEIC I 04 05 01 16.5–.28 27.59N 143.31E 10 4.8b,4.3
JMA I 04 05 01 17.8–.10 27.82N 143.30E 37 4.6,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.6km az=121.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.4km az=92.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 04 05 18 18.7–1.4 27.3N–.10 143.3E–.10 10 3.9b 9 1-78
ISCJB I 04 05 18 16.5–1.0 27.2N–.10 143.5E–.10 10 3.7b **¶17189391**
IDC I 04 05 18 17.5–1.3 27.17N 143.32E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=13.8km az=176.1.
IDC Error ellipse: s-maj=27.8km s-min=19.9km az=69.0.
ISC I 04 06 54 52.4–1.1 26.8N–.10 143.9E–.10 10 3.6b 11 2-72
ISCJB I 04 06 54 49.7–.88 26.91N–.08 144.00E–.08 10 3.6b,3.4s **¶17189396**
IDC I 04 06 54 51.0–1.3 26.74N 143.97E 0 3.8,3.6
JMA I 04 06 54 53.2 27.21N 143.79E 0 3.8,3.6

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=9.9km az=19.1.
IDC Error ellipse: s-maj=34.0km s-min=21.9km az=79.0.
ISC I 04 07 43 09.4–1.0 26.4N–.10 144.0E–.10 10 3.5b 8 2-149
ISCJB I 04 07 43 07.5–.92 26.5N–.10 144.0E–.10 10 3.4b **¶17189400**
IDC I 04 07 43 08.4–.92 26.39N 143.98E 0 3.8L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=12.2km az=34.2.
IDC Error ellipse: s-maj=39.7km s-min=21.2km az=98.0.
ISC I 04 10 31 16.0–1.1 27.3N–.10 143.3E–.10 10 3.7b 11 1-72
ISCJB I 04 10 31 13.8–.84 27.3N–.10 143.37E–.09 10 3.6b **¶17189414**
IDC I 04 10 31 14.6–.93 27.23N 143.24E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=10.8km az=151.2.
IDC Error ellipse: s-maj=20.7km s-min=17.9km az=127.0.
ISC I 04 15 20 52.1–.66 27.20N–.06 143.39E–.08 10 4.1b 48 1-149
NIED I 04 15 20 00 27.20N 143.40E 5 4.0W **¶15964344**
IDC I 04 15 20 50.6–.68 27.05N 143.33E 0 4.0,3.9
ISCJB I 04 15 20 52.1–.66 27.41N–.04 143.32E–.06 10 4.2b,3.9
NEIC I 04 15 20 52.1–.46 27.09N 143.37E 10 4.7b,3.9
JMA I 04 15 20 54.2–.10 27.22N 143.42E 44 4.3,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ23.00000°,λ-11.00000°. NP2:ϕ_s281.00000°,δ86.00000°,λ-112.00000°. $M_0$1.20000×10^{15}
IDC Error ellipse: s-maj=20.7km s-min=15.2km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.3km az=33.7.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.0km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA I 04 16 04 01.6–.10 27.55N 143.90E 65 3.6
¶600515642
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 04 21 22 25.7–.54 27.00N–.07 143.50E–.06 10 4.2b,3.1s 67 1-149
NIED I 04 21 22 00 27.10N 143.50E 5 4.0W,3.1s **¶16031099**
IDC I 04 21 22 24.0–.56 26.91N 143.53E 0 4.2,4.1
ISCJB I 04 21 22 24.2–.42 26.99N–.06 143.59E–.04 10 4.3b,3.2s
MOS I 04 21 22 24.2–1.0 26.84N 143.61E 14 4.5b,3.2s
NEIC I 04 21 22 25.4–.33 26.89N 143.52E 10 4.8b,3.2s
JMA I 04 21 22 28.8–.20 27.10N 143.47E 32 4.1,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s116.00000°,δ45.00000°,λ-116.00000°. NP2:ϕ_s330.00000°,δ50.00000°,λ-67.00000°. $M_0$1.13000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=14.3km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=164.1.
MOS Error ellipse: s-maj=20.9km s-min=9.9km az=116.9.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.3km az=70.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 04 21 47 15.6–1.5 26.9N–.10 143.7E–.10 10 8 1-52
IDC I 04 21 47 15.0–5.0 26.75N 143.57E 0 3.7,3.5 **¶17189457**
JMA I 04 21 47 18.8–.20 27.25N 143.75E 31 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=196.1km s-min=26.7km az=77.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 05 05 35 45.2–3.4 26.44N 141.87E 0 3.7,3.6
¶17189480
IDC Error ellipse: s-maj=144.4km s-min=30.0km az=75.0.
ISC I 05 07 19 32.1–.77 27.30N–.07 143.37E–.09 10 4.1b 36 1-83
ISCJB I 05 07 19 30.2–.59 27.34N–.05 143.48E–.06 10 4.0b **¶16032747**
IDC I 05 07 19 30.6–.80 27.14N 143.30E 0 4.0,3.9
NEIC I 05 07 19 32.1–.44 27.18N 143.36E 10 4.5b,3.9
JMA I 05 07 19 34.6 27.39N 143.23E 79 4.2,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.0km az=136.1.
IDC Error ellipse: s-maj=26.5km s-min=15.4km az=80.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.9km az=77.0.
ISC I 05 07 39 55.7–.63 27.13N–.07 143.69E–.06 10 3.8b 39 1-149
ISCJB I 05 07 39 54.7–.58 27.25N–.06 143.74E–.05 10 3.8b **¶16031102**
IDC I 05 07 39 54.1–.65 27.03N 143.77E 0 4.0,3.9
NEIC I 05 07 39 57.0–5.5 27.02N 143.69E 18–34 4.5b,3.9
JMA I 05 07 39 56.0–.30 27.30N 143.60E 0 3.6,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.1km az=152.3.
IDC Error ellipse: s-maj=18.4km s-min=17.0km az=90.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=9.5km az=98.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 05 08 15 16.8–1.1 26.69N 141.49E 0 3.6,3.5
¶17189492
IDC Error ellipse: s-maj=25.1km s-min=16.4km az=140.0.
ISC I 05 08 18 31.8–1.0 27.36N–.07 143.45E–.08 10 3.4b 20 1-71
ISCJB I 05 08 18 30.2–.79 27.45N–.05 143.50E–.07 10 3.5s,3.4b **¶17189493**
IDC I 05 08 18 30.2–1.0 27.32N 143.56E 0 3.7,3.6L
JMA I 05 08 18 34.1–.10 27.34N 143.41E 66 3.5,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.2km az=30.8.
IDC Error ellipse: s-maj=28.7km s-min=20.9km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 05 09 34 45.2–1.1 27.4N–.20 143.5E–.20 10 3.8b 10 35-78
ISCJB I 05 09 34 43.2–1.0 27.4N–.20 143.5E–.20 10 3.6b **¶17189497**
IDC I 05 09 34 43.7–1.2 27.41N 143.54E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.1km s-min=23.3km az=175.5.
IDC Error ellipse: s-maj=28.3km s-min=27.1km az=141.0.
IDC I 05 09 56 18.5–1.3 27.05N 143.34E 0 3.5,3.4
¶17189498
IDC Error ellipse: s-maj=43.0km s-min=29.2km az=80.0.
ISC I 05 13 42 32.8–1.6 27.3N–.10 143.4E–.10 10 9 1-51
ISCJB I 05 13 42 30.4–1.4 27.34N–.09 143.6E–.10 10 3.4b **¶17189508**
IDC I 05 13 42 32.4–6.0 27.13N 143.10E 0 3.7,3.5L
JMA I 05 13 42 33.5–.40 27.32N 143.41E 14 2.8,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=8.2km az=41.9.
IDC Error ellipse: s-maj=228.1km s-min=33.0km az=76.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 05 14 33 49.6–1.0 27.0N–.10 143.74E–.08 10 3.5b 13 1-79
IDC I 05 14 33 48.1–1.1 26.93N 143.85E 0 3.8,3.7L **¶17189512**
JMA I 05 14 33 49.7 27.25N 143.71E 8 3.4,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=27.6km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 05 14 40 54.1–1.0 27.2N–.10 143.57E–.08 10 3.4b 17 1-72
ISCJB I 05 14 40 52.1–.78 27.24N–.08 143.65E–.06 10 3.6b **¶17189513**
IDC I 05 14 40 52.5–1.0 27.10N 143.67E 0 3.7,3.7L
JMA I 05 14 40 55.0–.10 27.30N 143.61E 51 3.3,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.5km az=149.2.
IDC Error ellipse: s-maj=25.2km s-min=20.5km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 05 15 04 40.4–1.5 27.6N–.10 143.6E–.10 10 3.4b 12 1-52
ISCJB I 05 15 04 38.5–1.1 27.72N–.08 143.6E–.10 10 3.5b **¶17189515**
IDC I 05 15 04 38.7–2.0 27.62N 143.67E 0 3.7L,3.6
JMA I 05 15 04 43.4–.20 27.92N 143.25E 24 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=7.5km az=37.4.
IDC Error ellipse: s-maj=46.5km s-min=23.5km az=75.0.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC I 05 15 20 34.5–1.4 27.12N 143.58E 0 3.5,3.5L
¶17189516
IDC Error ellipse: s-maj=80.6km s-min=27.7km az=96.0.
ISC I 05 15 33 22.8–.83 26.79N–.09 143.64E–.09 10 3.8b 17 1-149
NIED I 05 15 33 00 27.10N 143.80E 5 3.8W **¶17189517**
IDC I 05 15 33 21.3–.81 26.67N 143.58E 0 3.9,3.7
JMA I 05 15 33 24.7–.10 27.07N 143.83E 68 3.8,3.7

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ40.00000°,λ-95.00000°. NP2:ϕ_s118.00000°,δ50.00000°,λ-86.00000°. $M_0$6.42000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=16.2km az=80.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 05 17 39 29.5–1.2 26.6N–.20 143.9E–.10 31 3.4b 7 2-72
IDC I 05 17 39 24.6–1.4 26.60N 144.00E 0 3.5,3.3 **¶17189524**
ISCJB I 05 17 39 27.4–1.0 26.6N–.20 143.9E–.10 31 3.4b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 05 17 43 16.0–.76 27.09N–.08 143.59E–.06 10 3.9b 34 1-149
NIED I 05 17 43 00 27.30N 143.70E 5 4.2W **¶16031114**
JMA I 05 17 43 13.1 27.29N 143.66E 0–1 4.2
ISCJB I 05 17 43 14.7–.58 27.21N–.05 143.65E–.05 10 3.8b,3.6s
IDC I 05 17 43 14.5–.74 27.02N 143.65E 0 4.0,3.9
NEIC I 05 17 43 16.1–.44 27.02N 143.60E 10 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ15.00000°,λ-31.00000°. NP2:ϕ_s111.00000°,δ82.00000°,λ-103.00000°. $M_0$2.54000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.2km az=148.3.
IDC Error ellipse: s-maj=18.9km s-min=17.7km az=1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=9.0km az=35.0.
ISC I 05 18 46 13.8–.93 27.0N–.10 143.99E–.09 10 3.6b 13 2-79
ISCJB I 05 18 46 11.8–.72 26.9N–.10 144.09E–.08 10 3.5b,3.5s **¶17189527**
IDC I 05 18 46 12.1–.90 26.91N 144.08E 0 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=10.2km az=178.5.
IDC Error ellipse: s-maj=23.3km s-min=20.3km az=132.0.
ISC I 05 19 04 31.9–.92 26.91N–.09 144.07E–.08 10 3.6b 20 2-79
ISCJB I 05 19 04 29.7–.68 26.89N–.08 144.14E–.06 10 3.8s,3.7b **¶16031116**
IDC I 05 19 04 30.0–.91 26.83N 144.20E 0 3.8,3.8
JMA I 05 19 04 30.3–.30 27.05N 144.12E 14 3.9,3.8
NEIC I 05 19 04 31.5–.68 26.80N 144.17E 10 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.3km az=175.5.
IDC Error ellipse: s-maj=24.7km s-min=21.0km az=101.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=12.4km az=68.0.
ISC I 05 19 08 28.7–.70 26.98N–.07 144.05E–.07 10 3.9b 37 2-148
IDC I 05 19 08 27.1–.66 26.87N 144.15E 0 4.0,3.9 **¶16031104**
NEIC I 05 19 08 28.5–.45 26.84N 144.13E 10 4.4b,3.9
JMA I 05 19 08 28.7–.30 27.22N 143.97E 5 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=16.7km az=133.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=10.4km az=69.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 05 19 17 57.5–.57 26.92N–.06 144.08E–.07 35 4.4b,3.4s 74 2-148
NIED I 05 19 17 00 27.10N 144.00E 5 4.5W,3.4s **¶16031105**
MOS I 05 19 17 51.7–1.3 26.73N 144.29E 13 4.5b,3.4s
IDC I 05 19 17 51.7–.55 26.75N 144.17E 0 4.4,4.2
NEIC I 05 19 17 53.2–.27 26.73N 144.14E 10 4.5b,4.2
JMA I 05 19 17 54.5–.20 27.10N 144.04E 28 4.0,4.2
ISCJB I 05 19 17 55.3–.39 26.92N–.05 144.10E–.04 33 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ10.00000°,λ-94.00000°. NP2:ϕ_s106.00000°,δ80.00000°,λ-89.00000°. $M_0$7.27000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 05 19 22 30.6–1.2 26.9N–.10 143.7E–.10 10 3.3b 8 1-72
ISCJB I 05 19 22 28.9–.92 26.9N–.10 143.69E–.10 10 3.4b **¶17189529**
IDC I 05 19 22 29.6–1.1 26.86N 143.77E 0 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=12.4km az=11.4.
IDC Error ellipse: s-maj=27.6km s-min=22.6km az=84.0.
ISC I 05 19 44 40.3–.73 26.8N–.10 144.12E–.09 10 3.7b 16 2-148
ISCJB I 05 19 44 38.6–.60 26.84N–.09 144.15E–.07 10 3.6b,3.5s **¶16395023**
IDC I 05 19 44 38.9–.67 26.80N 144.24E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=9.5km az=2.5.
IDC Error ellipse: s-maj=19.9km s-min=15.9km az=107.0.
ISC I 05 19 45 20.7–.41 26.84N–.05 144.05E–.05 10 4.7b,4.0s 131 2-149
NIED I 05 19 45 00 27.30N 143.80E 5 4.7W,4.0s **¶17189531**
BJI I 05 19 45 15.4 26.12N 144.38E 20 5.0b,4.7b
ISCJB I 05 19 45 19.2–.26 26.80N–.03 144.06E–.04 10 4.6b,3.9s
MOS I 05 19 45 19.7–1.4 26.71N 143.93E 14 4.7b,3.9s
IDC I 05 19 45 19.1–.44 26.78N 144.11E 0 4.5,4.4
NEIC I 05 19 45 20.2–3.5 26.76N 144.10E 8–21 4.9b,4.4
JMA I 05 19 45 26.0–.20 27.26N 143.80E 10 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ39.00000°,λ-79.00000°. NP2:ϕ_s115.00000°,δ51.00000°,λ-99.00000°. $M_0$1.07000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=2.7.
MOS Error ellipse: s-maj=13.3km s-min=7.4km az=107.9.
IDC Error ellipse: s-maj=15.1km s-min=11.7km az=88.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=96.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 05 20 33 14.3–.65 26.70N–.10 144.01E–.06 10 4.1b 33 2-148
NIED I 05 20 33 00 27.10N 144.10E 8 3.9W **¶16031108**
ISCJB I 05 20 33 12.8–.54 26.63N–.08 144.08E–.06 10 4.0b
IDC I 05 20 33 13.0–.67 26.67N 144.07E 0 4.1,3.9
NEIC I 05 20 33 14.8–.60 26.66N 143.87E 10 4.6b,3.9
JMA I 05 20 33 14.2–.20 27.05N 144.13E 20 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ46.00000°,λ-56.00000°. NP2:ϕ_s144.00000°,δ53.00000°,λ-120.00000°. $M_0$6.95000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=7.1km az=24.0.
IDC Error ellipse: s-maj=22.0km s-min=16.1km az=67.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=10.7km az=57.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 05 20 43 35.2–1.6 26.69N 144.09E 0 3.6,3.4
¶17189536
IDC Error ellipse: s-maj=55.9km s-min=30.9km az=86.0.
ISC I 05 21 41 00.9–1.3 26.9N–.10 143.3E–.10 10 3.7b 9 1-79
ISCJB I 05 21 40 59.1–1.2 26.9N–.10 143.4E–.10 10 3.6b **¶17189545**
IDC I 05 21 40 59.3–1.8 26.83N 143.36E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=14.3km az=12.0.
IDC Error ellipse: s-maj=44.6km s-min=26.1km az=72.0.
ISC I 05 22 01 52.7–1.1 27.1N–.10 143.8E–.10 10 3.5b 9 1-71
ISCJB I 05 22 01 50.7–.88 27.1N–.10 143.85E–.09 10 3.5b **¶17189546**
IDC I 05 22 01 51.0–.98 27.11N 143.94E 0 3.9L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=11.5km az=169.7.
IDC Error ellipse: s-maj=26.7km s-min=20.6km az=103.0.
IDC I 05 22 12 56.6–2.4 26.60N 143.84E 0 3.6,3.4
¶17189547
IDC Error ellipse: s-maj=53.6km s-min=26.7km az=52.0.
ISC I 05 22 18 44.6–.87 27.06N–.09 143.72E–.08 10 3.7b 22 1-149
NIED I 05 22 18 00 27.30N 143.60E 8 3.8W **¶17189550**
IDC I 05 22 18 42.9–.97 27.06N 143.84E 0 4.0L,3.9
ISCJB I 05 22 18 43.4–.75 27.20N–.07 143.75E–.06 10 3.8b,3.9
JMA I 05 22 18 44.8–.20 27.25N 143.63E 2 3.6,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ22.00000°,λ-77.00000°. NP2:ϕ_s135.00000°,δ69.00000°,λ-95.00000°. $M_0$5.92000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=21.9km az=7.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.2km az=146.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 05 23 00 18.1–.48 26.79N–.07 144.03E–.06 10 4.2b 60 2-148
NIED I 05 23 00 00 27.00N 144.10E 5 4.0W **¶16031111**

ISCJB I 05 23 00 16.8–.38 26.73N–.06 144.10E–.05 10 4.2b,4.0s
JMA I 05 23 00 16.9–.40 26.98N 144.15E 12 4.1,4.0s
IDC I 05 23 00 16.8–.45 26.76N 144.06E 0 4.3,4.2
MOS I 05 23 00 17.6–.91 26.69N 144.10E 17 4.4b,4.2
NEIC I 05 23 00 18.3–.26 26.76N 144.04E 10 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ41.00000°,λ-119.00000°. NP2:ϕ_s178.00000°,δ55.00000°,λ-67.00000°. $M_0$1.05000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.7km az=8.1.
JMA Error ellipse: s-maj=5.6km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=12.7km az=70.0.
MOS Error ellipse: s-maj=16.2km s-min=9.5km az=109.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.1km az=60.0.
IDC I 05 23 30 32.0–13 26.69N 143.98E 0 3.5,3.3
¶17189553
IDC Error ellipse: s-maj=491.5km s-min=30.6km az=72.0.
ISC I 05 23 46 43.7–.89 27.2N–.10 143.77E–.09 35 3.5b 15 1-149
IDC I 05 23 46 38.5–.91 27.12N 143.90E 0 3.9,3.7L **¶17189554**
JMA I 05 23 46 41.6–.40 27.16N 143.82E 27 4.0,3.7L
ISCJB I 05 23 46 42.1–.83 27.3N–.10 143.82E–.08 33 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC I 06 00 43 41.1–1.2 26.6N–.20 143.9E–.10 10 3.6b 9 2-80
ISCJB I 06 00 43 39.2–1.0 26.7N–.10 144.1E–.10 10 3.6b **¶17189556**
IDC I 06 00 43 39.5–1.2 26.64N 143.99E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=12.7km az=13.1.
IDC Error ellipse: s-maj=30.2km s-min=21.8km az=35.0.
ISC I 06 02 36 36.3–.85 27.10N–.10 143.58E–.07 10 4.2b 34 1-80
NIED I 06 02 36 00 27.30N 143.50E 17 4.1W **¶15977972**
IDC I 06 02 36 34.9–.80 27.01N 143.69E 0 4.2,4.0
NEIC I 06 02 36 36.4–.60 27.09N 143.66E 10 4.5b,4.0
JMA I 06 02 36 38.5–.20 27.27N 143.50E 72 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ71.00000°,λ161.00000°. NP2:ϕ_s163.00000°,δ72.00000°,λ20.00000°. $M_0$1.64000×10^{15}
IDC Error ellipse: s-maj=18.8km s-min=18.0km az=98.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=11.0km az=84.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 06 04 15 02.1–1.4 27.11N 143.27E 0 3.8,3.6
¶17189567
IDC Error ellipse: s-maj=27.0km s-min=22.3km az=51.0.
ISC I 06 06 29 34.5–.85 26.7N–.10 144.00E–.07 10 4.0b 22 2-148
ISCJB I 06 06 29 32.8–.64 26.69N–.09 144.10E–.07 10 3.9b **¶16009325**
IDC I 06 06 29 33.3–.87 26.68N 144.03E 0 3.9,3.8
NEIC I 06 06 29 34.8–.46 26.70N 144.04E 10 4.5b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=8.3km az=20.8.
IDC Error ellipse: s-maj=24.1km s-min=18.2km az=46.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.5km az=62.0.
IDC I 06 06 55 15.2–1.8 26.71N 143.89E 0 3.7,3.6
¶17189576
IDC Error ellipse: s-maj=43.3km s-min=21.6km az=61.0.
ISC I 06 08 19 37.0–.98 27.43N–.08 143.28E–.10 10 4.0b 23 1-81
ISCJB I 06 08 19 35.5–.69 27.56N–.05 143.35E–.07 10 4.0b **¶16031120**
IDC I 06 08 19 35.5–1.3 27.32N 143.33E 0 3.9,3.8b
NEIC I 06 08 19 37.2–.83 27.40N 143.21E 10 4.4b,3.8b
JMA I 06 08 19 40.3–.40 27.52N 143.09E 88 3.3,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.3km az=34.0.
IDC Error ellipse: s-maj=25.8km s-min=21.3km az=81.0.
NEIC Event type se. Error ellipse: s-maj=22.7km s-min=11.8km az=84.0.
JMA Error ellipse: s-maj=4.4km s-min=4.9km az=-1.0.
IDC I 06 12 18 03.4–6.8 26.62N 143.68E 0 3.7,3.5
¶17189594
IDC Error ellipse: s-maj=249.1km s-min=28.8km az=75.0.
ISC I 06 12 27 33.0–1.1 26.9N–.10 143.68E–.09 10 3.4b 9 1-80
ISCJB I 06 12 27 31.4–.99 27.0N–.10 143.71E–.09 10 3.4b **¶17189595**
IDC I 06 12 27 31.4–1.2 26.87N 143.81E 0 3.7,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=11.3km az=178.6.
IDC Error ellipse: s-maj=28.7km s-min=25.4km az=175.0.
ISC I 06 14 31 16.7–.71 27.44N–.05 143.22E–.06 27–3 4.6b,3.8s 161 1-145
NIED I 06 14 31 00 27.40N 143.30E 5 4.2W,3.8s **¶15908148**
IDC I 06 14 31 12.1–.60 27.28N 143.35E 0 4.4,4.2
NEIC I 06 14 31 13.3–.40 27.32N 143.27E 10 4.8b,4.2
ISCJB I 06 14 31 15.4–1.0 27.57N–.03 143.21E–.05 25–6 4.5b,3.8s
JMA I 06 14 31 15.3–.20 27.43N 143.33E 58 4.3,3.8s
MOS I 06 14 31 15.3–1.1 27.33N 143.31E 33 4.7b,3.8s
BJI I 06 14 31 17.9 27.36N 142.96E 44 4.9b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s117.00000°,δ35.00000°,λ-177.00000°. NP2:ϕ_s25.00000°,δ88.00000°,λ-55.00000°. $M_0$1.92000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=13.5km az=129.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.6km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.2km az=15.8.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=13.7km s-min=6.4km az=117.2.
ISC I 06 15 57 43.2–.66 27.22N–.08 143.41E–.06 10 4.0b 44 1-149
IDC I 06 15 57 41.2–.65 27.09N 143.52E 0 4.1,4.0 **¶16017948**
ISCJB I 06 15 57 42.9–.56 27.43N–.06 143.37E–.05 10 4.0b,4.0
NEIC I 06 15 57 42.9–.42 27.14N 143.48E 10 4.5b,4.0
JMA I 06 15 57 44.3–.10 27.32N 143.46E 43 3.3,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=16.4km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=4.5km az=142.7.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.5km az=187.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 06 20 25 00.4–.84 27.24N–.08 143.46E–.07 10 3.5b 22 1-80
IDC I 06 20 24 58.6–.83 27.08N 143.58E 0 4.0,3.7 **¶17189610**
ISCJB I 06 20 24 59.9–.81 27.42N–.06 143.44E–.07 10 3.6b,3.7
JMA I 06 20 25 00.0–.10 27.26N 143.61E 36 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=20.0km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.4km az=40.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 06 20 42 15.4–1.0 27.25N–.10 143.48E–.08 10 3.4b 18 1-83
ISCJB I 06 20 42 13.9–.98 27.37N–.08 143.55E–.09 10 3.9s,3.7b **¶17189611**
IDC I 06 20 42 13.5–1.0 27.13N 143.57E 0 3.9,3.7
JMA I 06 20 42 14.7–.10 27.47N 143.46E 7–4 4.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=6.3km az=135.9.
IDC Error ellipse: s-maj=27.0km s-min=20.0km az=81.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 06 21 36 27.3–.63 27.08N–.09 143.82E–.08 10 3.8b 23 1-150
ISCJB I 06 21 36 25.6–.58 27.12N–.08 143.82E–.06 10 3.9b **¶16007676**
IDC I 06 21 36 25.5–1.4 27.04N 144.01E 0 3.8L,3.7
NEIC I 06 21 36 26.8–3.6 27.10N 143.94E 7–22 4.0b,3.7
ISC Event type ke.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.4km az=171.9.
IDC Error ellipse: s-maj=31.0km s-min=26.8km az=89.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=78.0.
JMA I 06 23 21 36.3–.20 28.95N 140.91E 94 3.8
¶600516314
JMA Error ellipse: s-maj=3.3km s-min=6.8km az=-1.0.
ISC I 07 02 41 20.2–1.1 27.0N–.10 143.2E–.10 10 3.9s,3.7b 11 1-78
ISCJB I 07 02 41 18.3–.77 27.06N–.09 143.34E–.09 10 3.9s,3.7b **¶17189619**
IDC I 07 02 41 19.1–.90 27.00N 143.18E 0 3.9,3.9s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=11.4km az=19.6.
IDC Error ellipse: s-maj=21.0km s-min=16.5km az=62.0.

ISC I 07 10 57 01.3–1.1 27.46N–.07 143.3E–.10 35 3.8b 24 1-78
IDC I 07 10 56 55.9–1.0 27.28N 143.43E 0 3.9,3.7 **¶17189637**
JMA I 07 10 56 58.9 27.51N 143.42E 39 4.1,3.7
ISCJB I 07 10 56 59.3–.87 27.56N–.05 143.38E–.09 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC I 07 12 24 02.0–1.1 26.68N 143.80E 0 3.9,3.6
¶17189639
IDC Error ellipse: s-maj=25.8km s-min=20.7km az=6.0.
ISC I 07 14 43 39.2–.89 26.8N–.10 143.94E–.09 10 3.6b 13 2-148
ISCJB I 07 14 43 37.6–.75 26.8N–.10 143.98E–.09 10 3.6b **¶17189645**
IDC I 07 14 43 37.9–.82 26.80N 144.01E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=10.8km az=7.8.
IDC Error ellipse: s-maj=22.4km s-min=19.9km az=74.0.
IDC I 07 18 13 53.1–1.7 26.04N 141.97E 0 3.7,3.5
¶17189652
IDC Error ellipse: s-maj=62.4km s-min=19.5km az=100.0.
JMA I 07 18 40 59.7–.10 27.40N 143.51E 7 3.5
¶600516535
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 07 19 01 43.0–1.8 26.74N 143.98E 0 4.0,4.0s
¶17189655
IDC Error ellipse: s-maj=49.0km s-min=27.8km az=71.0.
ISC I 07 21 04 57.5–1.1 26.8N–.10 144.0E–.10 10 3.5b 8 2-79
ISCJB I 07 21 04 55.5–.95 26.9N–.10 144.03E–.10 10 3.6b **¶17189659**
IDC I 07 21 04 55.8–1.1 26.83N 144.09E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=12.2km az=18.1.
IDC Error ellipse: s-maj=29.7km s-min=22.9km az=67.0.
ISC I 08 04 59 45.9–.77 26.7N–.10 143.80E–.06 10 3.5b 25 1-149
ISCJB I 08 04 59 44.5–.65 26.76N–.09 143.87E–.05 10 3.9s,3.6b **¶15998077**
IDC I 08 04 59 44.6–.90 26.67N 143.84E 0 3.8,3.8s
NEIC I 08 04 59 45.1–6.8 26.64N 143.83E 5–41 4.1b,3.8s
JMA I 08 04 59 46.1–.30 27.13N 143.75E 0 3.8,3.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=5.9km az=0.1.
IDC Error ellipse: s-maj=24.1km s-min=22.0km az=84.0.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=11.8km az=113.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 08 08 09 54.3–1.1 27.7N–.10 143.3E–.10 10 3.6b 12 1-71
ISCJB I 08 08 09 51.8–.88 27.67N–.08 143.4E–.10 10 3.7b **¶17189682**
IDC I 08 08 09 52.8–1.1 27.60N 143.32E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=10.2km az=28.7.
IDC Error ellipse: s-maj=28.5km s-min=16.6km az=90.0.
JMA I 08 09 20 27.0–.10 27.79N 143.37E 43 3.8
¶600516702
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 08 13 55 03.4–.98 27.38N–.09 143.4E–.10 35 3.4b 16 1-78
IDC I 08 13 54 58.1–.96 27.37N 143.41E 0 3.7,3.5 **¶17189699**
JMA I 08 13 55 00.8–.20 27.33N 143.49E 39 2.9,3.5
ISCJB I 08 13 55 01.0–.78 27.48N–.06 143.45E–.08 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 08 14 59 38.5–.81 28.95N–.05 142.9E–.10 41 3.7b 21 2-82
NIED I 08 14 59 00 29.00N 142.70E 5 4.0W **¶17189703**
IDC I 08 14 59 33.2–.83 28.90N 143.28E 0 3.8,3.6L
ISCJB I 08 14 59 36.8–.60 28.99N–.03 142.9E–.10 41 3.6b,2.5s
JMA I 08 14 59 37.2–.20 28.98N 142.74E 33 4.1,2.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ13.00000°,λ-145.00000°. NP2:ϕ_s183.00000°,δ83.00000°,λ-80.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=29.2km s-min=17.4km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=4.5km az=177.5.
JMA Error ellipse: s-maj=1.1km s-min=6.8km az=-1.0.
ISC I 08 15 35 39.9–1.7 27.7N–.10 143.4E–.20 35 9 1-51
IDC I 08 15 35 32.2–12 27.76N 144.34E 0 3.8,3.6b **¶17189707**
ISCJB I 08 15 35 37.3–1.5 27.75N–.08 143.5E–.20 33 3.8b,3.6b
JMA I 08 15 35 39.3–.30 27.73N 143.34E 38 3.8b,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=470.7km s-min=31.5km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=8.8km az=22.6.
JMA Error ellipse: s-maj=5.6km s-min=3.9km az=-1.0.
ISC I 08 17 00 43.6–1.1 27.25N–.10 143.78E–.10 35 3.9b 23 1-87
IDC I 08 17 00 36.4–1.1 26.98N 144.05E 0 3.9,3.7 **¶17189712**
JMA I 08 17 00 39.8–.10 27.20N 143.91E 35 4.3,3.7
ISCJB I 08 17 00 42.0–.92 27.36N–.07 143.79E–.08 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 08 18 23 20.1–.43 26.81N–.03 143.91E–.04 16–2 5.2b,4.3s 761 2-153
ISCJB I 08 18 23 17.3–.90 26.80N–.02 143.87E–.02 5–5 5.1b,4.3s **¶15928059**
BJI I 08 18 23 17.1 26.58N 143.68E 5 5.1b,4.9b
IDC I 08 18 23 17.6–.35 26.71N 143.96E 0 4.9,4.9
GCMT I 08 18 23 20.1–.20 26.77N 143.90E 31–0 5.1W,4.9
MOS I 08 18 23 20.9–.89 26.70N 143.92E 33 5.4b,4.1s
NEIC I 08 18 23 20.1–2.2 26.67N 143.88E 16–13 5.3b,4.1s
JMA I 08 18 23 23.2–.10 26.95N 143.81E 76 5.4,4.1s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.7km az=162.8.
IDC Error ellipse: s-maj=12.4km s-min=8.6km az=89.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c77; s89,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.36±.20 $M_{\theta\theta}$4.46±.12; $M_{\phi\phi}$-0.10±.13; $M_{r\theta}$1.81±.14; $M_{\theta\phi}$-1.25±.09; $M_{\phi r}$-0.98±.20; Best double couple: NP1:ϕ_s291.00000°,δ57.00000°,λ-83.00000°. NP2:ϕ_s98.00000°,δ34.00000°,λ-101.00000°. Principal axes: T 5.1990,Plg12.0000°,Azm15.0000°; N -0.3720,Plg6.0000°,Azm107.0000°; P -4.8320,Plg77.0000°,Azm223.0000° $M_0$5.01500×10^{16}
MOS Error ellipse: s-maj=9.3km s-min=4.5km az=110.9.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 08 21 50 53.0–1.2 26.8N–.10 143.96E–.09 10 3.8b 14 2-72
IDC I 08 21 50 51.0–1.3 26.77N 144.13E 0 3.8,3.7L **¶17189725**
JMA I 08 21 50 52.9–.10 27.23N 143.86E 0 3.7,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=25.9km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 08 23 25 40.5–.51 27.24N–.05 143.33E–.07 35 4.2b 83 1-149
IDC I 08 23 25 34.8–.57 27.09N 143.43E 0 4.3,4.1 **¶16022588**
NEIC I 08 23 25 36.4–.19 27.08N 143.42E 10 4.3b,4.1
ISCJB I 08 23 25 39.0–.38 27.32N–.04 143.34E–.04 33 4.2b,4.1
JMA I 08 23 25 39.4–.20 27.27N 143.20E 80 3.8,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=14.6km az=90.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=4.2km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.4km az=137.5.
JMA Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
ISC I 09 01 31 32.3–.52 27.26N–.06 143.39E–.06 35 4.4b,3.7s 79 1-149
IDC I 09 01 31 26.3–.61 27.08N 143.51E 0 4.2,4.1 **¶15998087**
NEIC I 09 01 31 27.8–3.2 27.12N 143.46E 7–19 4.6b,4.1
ISCJB I 09 01 31 30.5–.33 27.26N–.04 143.40E–.04 33 4.3b,3.5s
JMA I 09 01 31 30.7 27.23N 143.30E 78 3.3,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=15.0km az=156.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.6km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.1km az=151.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 09 02 32 38.4–.60 27.24N–.07 143.34E–.07 35 4.1b 56 1-149
IDC I 09 02 32 32.5–.70 27.10N 143.49E 0 4.0,3.9 **¶15998090**
NEIC I 09 02 32 34.0–.25 27.09N 143.43E 10 4.4b,3.9
JMA I 09 02 32 35.5–.10 27.28N 143.43E 58 3.6,3.9

ISCJB I 09 02 32 37.0–.43 27.38N–.05 143.32E–.05 33 4.0b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 04 04 00.3–.70 26.5N–.10 143.83E–.08 31 4.2b 34 2-149
IDC I 09 04 03 55.5–.74 26.44N 144.01E 0 4.1,3.9 **¶15998091**
NEIC I 09 04 03 57.0–.36 26.45N 143.90E 10 4.4b,3.9
ISCJB I 09 04 03 58.0–.49 26.38N–.08 143.93E–.06 31 4.1b,3.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 07 45 08.2–1.1 26.89N–.07 143.92E–.10 35 4.0b 33 2-79
IDC I 09 07 45 02.0–1.4 26.75N 144.11E 0 3.9,3.9L **¶16022598**
NEIC I 09 07 45 03.8–.58 26.78N 144.06E 10 4.0b,3.9L
ISCJB I 09 07 45 07.8–.89 27.08N–.04 143.89E–.06 33 3.9b,3.9L
JMA I 09 07 45 08.7 26.97N 143.78E 75 4.5,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=30.1km s-min=26.7km az=63.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=9.3km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.0km az=27.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 09 08 34 55.9–1.6 27.1N–.10 143.7E–.10 35 3.6b 9 1-54
IDC I 09 08 34 47.4–8.0 27.21N 144.80E 0 3.8L,3.6 **¶17189743**
ISCJB I 09 08 34 52.9–1.4 27.19N–.10 143.8E–.10 33 3.5b,3.6
JMA I 09 08 34 52.9–.10 27.22N 143.75E 29–5 3.5b,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=298.6km s-min=30.0km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=11.9km az=38.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 09 08 50 59.3–.83 27.2N–.10 143.52E–.06 10 3.8b,3.2s 25 1-95
ISCJB I 09 08 50 57.6–.56 27.22N–.08 143.55E–.06 10 3.8b,3.2s **¶16022599**
IDC I 09 08 50 57.7–.76 27.18N 143.58E 0 4.0,3.8
NEIC I 09 08 50 59.3–.43 27.19N 143.53E 10 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.3km az=168.4.
IDC Error ellipse: s-maj=18.7km s-min=17.9km az=61.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.9km az=64.0.
ISC I 09 11 24 56.6–.61 27.12N–.07 143.38E–.07 35 4.4b 92 1-139
MOS I 09 11 24 51.6–.92 27.04N 143.49E 17 4.4b **¶15927196**
IDC I 09 11 24 51.3–.68 27.05N 143.43E 0 4.2,4.0
NEIC I 09 11 24 52.9–.28 27.04N 143.43E 10 4.7b,4.0
BJI I 09 11 24 53.4 27.14N 143.01E 8 5.1b,4.7s
ISCJB I 09 11 24 54.4–.39 27.12N–.05 143.43E–.04 33 4.3b,4.7s
JMA I 09 11 24 55.1–.20 27.21N 143.37E 61 3.6,4.7s
ISC Event type se.
MOS Error ellipse: s-maj=17.1km s-min=7.8km az=120.2.
IDC Error ellipse: s-maj=17.9km s-min=15.2km az=76.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.1km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=154.1.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 09 12 40 17.3–1.1 27.1N–.10 143.66E–.09 35 3.5b 14 1-72
IDC I 09 12 40 12.0–1.1 26.92N 143.71E 0 3.8,3.6 **¶17189764**
ISCJB I 09 12 40 14.2–.92 27.12N–.09 143.81E–.07 33 3.6b,3.6
JMA I 09 12 40 15.7–.10 27.33N 143.67E 38 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=21.3km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=8.3km az=156.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 09 13 12 14.9–.54 27.07N–.07 143.67E–.07 35 4.1b 56 1-149
IDC I 09 13 12 09.3–.54 26.96N 143.76E 0 4.4s,4.4 **¶15994797**
NEIC I 09 13 12 10.8–.32 26.97N 143.77E 10 4.6b,4.4
ISCJB I 09 13 12 12.6–.42 27.08N–.05 143.74E–.04 33 4.4s,4.2b
JMA I 09 13 12 12.7–.10 27.16N 143.72E 62 4.1,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=12.8km az=85.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.4km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.4km az=160.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 09 13 21 38.3–1.5 27.1N–.10 143.6E–.10 35 3.2b 6 1-59
IDC I 09 13 21 32.9–2.1 27.01N 143.81E 0 3.6,3.5 **¶17189767**
ISCJB I 09 13 21 35.4–1.2 27.1N–.10 143.7E–.10 33 3.7s,3.3b
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 16 38 37.0–.80 27.18N–.07 143.60E–.08 35 3.9b 35 1-83
IDC I 09 16 38 30.6–.68 26.89N 143.79E 0 4.0,3.9 **¶15994804**
NEIC I 09 16 38 32.2–.42 26.93N 143.73E 10 4.7b,3.9
JMA I 09 16 38 32.5–.30 27.19N 143.75E 24 4.0,3.9
ISCJB I 09 16 38 36.1–.66 27.35N–.05 143.60E–.06 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 09 17 05 58.1–1.1 27.2N–.10 143.38E–.09 10 4.1b 19 1-78
ISCJB I 09 17 05 56.3–.72 27.00N–.10 143.42E–.06 10 3.8b **¶16057156**
IDC I 09 17 05 56.6–1.5 27.04N 143.41E 0 3.9,3.8
NEIC I 09 17 05 57.9–.87 27.09N 143.39E 10 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=7.3km az=8.9.
IDC Error ellipse: s-maj=37.9km s-min=21.0km az=71.0.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=12.6km az=70.0.
ISC I 09 18 45 55.0–1.2 27.18N–.10 143.59E–.10 35 3.7b 24 1-78
IDC I 09 18 45 48.2–1.0 26.88N 143.78E 0 3.8,3.7 **¶17189784**
JMA I 09 18 45 50.7–.10 27.13N 143.78E 44 4.0,3.7
ISCJB I 09 18 45 53.5–.91 27.34N–.06 143.61E–.07 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 22 01 19.0–.57 28.98N–.05 143.1E–.10 35 4.1b 53 2-150
NIED I 09 22 01 00 29.00N 142.50E 11 4.0W **¶16150909**
IDC I 09 22 01 13.5–.59 28.92N 143.32E 0 4.1,3.9
NEIC I 09 22 01 15.0–.36 28.91N 143.32E 10 4.3b,3.9
ISCJB I 09 22 01 16.8–.47 29.00N–.03 142.96E–.09 33 4.0b,2.8s
JMA I 09 22 01 18.4–.20 28.96N 142.49E 45 4.1,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ35.00000°,λ-167.00000°. NP2:ϕ_s165.00000°,δ83.00000°,λ-56.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=15.1km az=90.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.0km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=3.7km az=177.5.
JMA Error ellipse: s-maj=1.1km s-min=6.8km az=-1.0.
IDC I 09 23 53 12.7–1.6 27.69N 144.08E 0 3.9,3.7L
¶17189799
IDC Error ellipse: s-maj=71.1km s-min=30.3km az=97.0.
ISC I 10 01 04 24.4–1.3 27.1N–.10 143.6E–.10 10 3.6b 9 1-72
ISCJB I 10 01 04 22.3–1.1 27.1N–.10 143.7E–.10 10 3.5b **¶17189806**
IDC I 10 01 04 23.0–1.3 27.01N 143.54E 0 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=12.8km az=169.4.
IDC Error ellipse: s-maj=26.4km s-min=22.8km az=2.0.
IDC I 10 03 24 28.9–1.2 28.89N 143.48E 0 3.9,3.7
¶17189813
IDC Error ellipse: s-maj=34.8km s-min=28.1km az=75.0.
ISC I 10 07 35 49.0–.67 27.22N–.07 143.53E–.06 10 4.3b 45 1-149
IDC I 10 07 35 47.2–.65 27.06N 143.58E 0 4.3,4.1 **¶16150954**
ISCJB I 10 07 35 48.5–.58 27.42N–.04 143.53E–.05 10 4.2b,4.1
NEIC I 10 07 35 48.6–.35 27.10N 143.54E 10 4.6b,4.1
JMA I 10 07 35 49.9–.20 27.29N 143.59E 53 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=15.4km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.4km az=41.8.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.8km az=63.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 10 09 50 59.9–1.7 27.28N 143.29E 0 3.6,3.4
¶17189840
IDC Error ellipse: s-maj=29.6km s-min=23.7km az=52.0.
ISC I 10 10 45 55.0–.97 27.1N–.10 143.6E–.10 10 3.8b 11 1-79
ISCJB I 10 10 45 53.1–.80 27.1N–.10 143.8E–.10 10 3.6b **¶17189843**
IDC I 10 10 45 53.5–.89 27.06N 143.72E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=15.0km az=155.6.
IDC Error ellipse: s-maj=22.2km s-min=19.8km az=99.0.
IDC I 10 11 48 49.6–2.6 27.36N 143.39E 0 3.7,3.4
¶17189850
IDC Error ellipse: s-maj=48.1km s-min=31.9km az=53.0.
IDC I 10 12 20 34.5–9.8 26.02N 141.80E 0 3.6,3.4
¶17189852
IDC Error ellipse: s-maj=377.0km s-min=31.4km az=71.0.
ISC I 10 13 20 56.3–.74 27.15N–.09 143.55E–.07 10 3.9b 40 1-149
ISCJB I 10 13 20 54.5–.55 27.26N–.05 143.61E–.05 10 3.9b **¶15994811**
IDC I 10 13 20 54.5–.73 27.10N 143.63E 0 4.0,3.8
NEIC I 10 13 20 56.2–.36 27.15N 143.59E 10 4.5b,3.8
JMA I 10 13 20 58.5–.10 27.31N 143.46E 73 3.2,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.0km az=146.0.
IDC Error ellipse: s-maj=18.3km s-min=17.1km az=145.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.4km az=74.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 10 13 34 28.6–.35 27.17N–.04 143.48E–.04 10 5.0b,4.0s 684 1-150
NIED I 10 13 34 00 27.20N 143.50E 8 4.7W,4.0s **¶15916175**
IDC I 10 13 34 26.7–.41 27.06N 143.60E 0 4.7,4.7
ISCJB I 10 13 34 27.2–.12 27.15N–.02 143.52E–.02 10 4.9b,4.0s
NEIC I 10 13 34 28.5–.13 27.03N 143.55E 10 5.1b,4.0s
GCMT I 10 13 34 28.5–.40 27.09N 143.50E 17–1 4.8W,4.0s
JMA I 10 13 34 29.8 27.18N 143.48E 82 4.7,4.0s
MOS I 10 13 34 29.7–1.1 27.09N 143.49E 29 5.0b,4.0s
BJI I 10 13 34 30.2 26.98N 143.41E 35 5.0b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ24.00000°,λ-116.00000°. NP2:ϕ_s160.00000°,δ68.00000°,λ-79.00000°. $M_0$1.25000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=9.3km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=173.9.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=162.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c26; s73,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.16±.16 $M_{\theta\theta}$0.56±.09; $M_{\phi\phi}$1.59±.11; $M_{r\theta}$-0.45±.23; $M_{\theta\phi}$-0.64±.05; $M_{\phi r}$1.04±.24; Best double couple: NP1:ϕ_s155.00000°,δ60.00000°,λ-89.00000°. NP2:ϕ_s333.00000°,δ30.00000°,λ-92.00000°. Principal axes: T 2.1910,Plg15.0000°,Azm245.0000°; N 0.2570,Plg1.0000°,Azm335.0000° ; P -2.4540,Plg75.0000°,Azm68.0000° $M_0$2.32300×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=4.8km az=102.7.
IDC I 10 14 18 00.1–2.6 26.85N 143.90E 0 3.6,3.4
¶17189857
IDC Error ellipse: s-maj=60.4km s-min=28.6km az=66.0.
ISC I 10 18 15 10.9–2.8 27.1N–.20 143.6E–.20 35 3.3b 15 1-51
JMA I 10 18 15 07.4–.20 27.00N 143.79E 67 3.4 **¶17189873**
IDC I 10 18 15 15.5–1.2 26.92N 141.48E 0 3.5,3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=15.7km az=177.0.
IDC I 10 18 16 49.7–2.8 27.05N 143.72E 0 4.0,3.7
¶17189874
IDC Error ellipse: s-maj=58.2km s-min=28.1km az=53.0.
ISC I 10 21 31 37.9–.95 27.5N–.10 143.8E–.10 10 3.5b 12 1-149
ISCJB I 10 21 31 36.4–.85 27.6N–.10 143.8E–.10 10 3.5b **¶17189878**
IDC I 10 21 31 36.9–.90 27.56N 143.90E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=10.7km az=144.5.
IDC Error ellipse: s-maj=24.6km s-min=19.7km az=103.0.
IDC I 10 22 15 46.2–2.3 27.64N 142.90E 0 3.6,3.4
¶17189882
IDC Error ellipse: s-maj=45.8km s-min=19.9km az=107.0.
ISC I 11 01 15 43.5–.46 28.68N–.06 139.25E–.07 450 4.0b 96 3-131
ISCJB I 11 01 15 42.8–.29 28.64N–.04 139.14E–.05 450 3.9b **¶16019194**
JMA I 11 01 15 43.0–.10 28.66N 139.55E 487 4.1
MOS I 11 01 15 43.0–.96 28.61N 139.17E 466 4.1b
IDC I 11 01 15 44.7–.89 28.67N 139.21E 467–9 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=167.9.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=15.8km s-min=7.8km az=107.9.
IDC Error ellipse: s-maj=12.4km s-min=9.3km az=92.0.
ISC I 11 01 45 06.0–1.3 27.2N–.10 143.62E–.09 10 3.9b 11 1-71
JMA I 11 01 45 02.8 27.22N 143.86E 10–1 3.5 **¶17189888**
ISCJB I 11 01 45 03.8–1.2 27.25N–.09 143.8E–.10 10 3.7b
IDC I 11 01 45 04.3–1.5 27.13N 143.72E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=8.7km az=42.9.
IDC Error ellipse: s-maj=31.7km s-min=28.1km az=98.0.
ISC I 11 01 57 09.5–.85 27.0N–.10 143.51E–.08 10 3.7b 18 1-149
ISCJB I 11 01 57 07.9–.70 27.07N–.09 143.56E–.06 10 3.9b **¶17189891**
IDC I 11 01 57 08.1–.75 26.95N 143.47E 0 4.1,3.8
JMA I 11 01 57 11.1–.10 27.40N 143.37E 11 3.4,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.1km az=170.6.
IDC Error ellipse: s-maj=19.4km s-min=17.0km az=7.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 11 04 11 43.5–2.6 26.74N 144.12E 0 3.5,3.3
¶17189897
IDC Error ellipse: s-maj=67.3km s-min=29.0km az=64.0.
ISC I 11 09 14 55.9–.80 27.86N–.06 143.66E–.10 35 4.1b 49 2-149
NIED I 11 09 14 00 27.80N 143.70E 5 3.9W **¶16151054**
IDC I 11 09 14 49.8–1.1 27.73N 143.89E 0 4.0L,4.0
NEIC I 11 09 14 51.5–.60 27.74N 143.86E 10 4.3b,4.0
JMA I 11 09 14 53.2–.20 27.81N 143.72E 38 4.3,4.0
ISCJB I 11 09 14 54.3–.60 27.91N–.03 143.62E–.06 33 4.1s,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ48.00000°,λ-120.00000°. NP2:ϕ_s358.00000°,δ50.00000°,λ-61.00000°. $M_0$7.21000×10^{14}
NEIC Event type se.
ISCJB Event type se.
IDC I 11 12 46 25.6–2.2 26.93N 143.46E 0 3.6,3.4
¶17189916
IDC Error ellipse: s-maj=51.3km s-min=29.9km az=64.0.
IDC I 11 18 50 21.4–6.2 26.44N 143.68E 0 3.8,3.7b
¶17189934
IDC Error ellipse: s-maj=239.6km s-min=22.1km az=74.0.
IDC I 11 18 55 57.8–2.6 27.02N 144.07E 0 3.7,3.4
¶17189936
IDC Error ellipse: s-maj=57.2km s-min=29.5km az=67.0.
IDC I 11 19 01 14.4–1.5 26.43N 143.98E 0 3.7,3.6L
¶17189938
IDC Error ellipse: s-maj=36.3km s-min=27.4km az=74.0.
ISC I 11 19 08 34.0–.75 26.7N–.10 144.14E–.08 10 4.2b 30 2-148
ISCJB I 11 19 08 32.0–.54 26.71N–.08 144.19E–.06 10 4.0b,3.0s **¶16022602**
IDC I 11 19 08 32.3–.71 26.64N 144.16E 0 4.1,3.9
NEIC I 11 19 08 33.9–.35 26.67N 144.14E 10 4.4b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=7.6km az=17.2.
IDC Error ellipse: s-maj=20.3km s-min=17.6km az=58.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.0km az=66.0.
ISC I 11 19 35 08.6–1.0 26.7N–.10 144.1E–.10 10 3.6b,3.2s 11 2-80
ISCJB I 11 19 35 06.7–.90 26.6N–.20 144.19E–.09 10 3.5b,3.1s **¶17189940**
IDC I 11 19 35 06.8–1.1 26.62N 144.18E 0 3.8,3.6

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.1km s-min=11.5km az=9.2.
IDC Error ellipse: s-maj=26.5km s-min=23.1km az=10.0.
ISC I 11 22 04 45.9–.69 26.7N–.10 144.17E–.09 10 4.2b,3.5s 34 2-148
ISCJB I 11 22 04 44.2–.54 26.58N–.10 144.20E–.06 10 4.2b,3.5s **¶16151103**
IDC I 11 22 04 44.5–.57 26.64N 144.19E 0 4.3,4.1
NEIC I 11 22 04 46.0–.42 26.67N 144.15E 10 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=7.1km az=11.5.
IDC Error ellipse: s-maj=17.6km s-min=15.4km az=32.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.2km az=22.0.
ISC I 11 22 45 14.4–.65 26.6N–.10 144.3E–.10 10 4.2b 31 2-148
ISCJB I 11 22 45 12.8–.52 26.64N–.09 144.21E–.06 10 4.4b **¶16151106**
IDC I 11 22 45 13.5–1.0 26.65N 144.17E 0 4.0,3.9b
NEIC I 11 22 45 16.0–.57 26.61N 144.30E 20 4.6b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=7.3km az=15.2.
IDC Error ellipse: s-maj=28.0km s-min=22.2km az=54.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=11.9km az=207.0.
ISC I 11 22 56 53.1–.54 26.64N–.07 143.79E–.05 6–2 4.8b,4.0s 186 1-149
NIED I 11 22 56 00 27.20N 143.70E 5 4.5W,4.0s **¶15928077**
BJI I 11 22 56 49.9 26.37N 143.80E 5 4.9b,4.5s
IDC I 11 22 56 52.1–.63 26.67N 143.76E 0 4.4,4.3
ISCJB I 11 22 56 52.2–.25 26.61N–.04 143.77E–.03 10 4.6b,3.9s
JMA I 11 22 56 53.9–.20 27.19N 143.74E 0 4.7,3.9s
NEIC I 11 22 56 53.1–.24 26.61N 143.77E 6 4.9b,3.9s
MOS I 11 22 56 55.7–1.1 26.61N 143.77E 33 4.7b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s299.00000°,δ43.00000°,λ-118.00000°. NP2:ϕ_s155.00000°,δ53.00000°,λ-66.00000°. $M_0$6.35000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=16.1km az=9.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.4km az=5.9.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=139.0.
MOS Error ellipse: s-maj=15.7km s-min=7.0km az=114.8.
IDC I 11 23 39 52.7–13 26.53N 144.26E 0 3.9,3.8
¶17189955
IDC Error ellipse: s-maj=490.4km s-min=31.6km az=73.0.
ISC I 11 23 47 51.8–.86 26.71N–.04 143.65E–.04 26–5 5.0b,4.5s 382 1-149
NIED I 11 23 47 00 27.10N 143.70E 5 5.1W,4.5s **¶15919542**
IDC I 11 23 47 46.9–.41 26.70N 143.89E 0 4.7,4.6
ISCJB I 11 23 47 49.0–.93 26.72N–.03 143.69E–.02 16–6 5.0b,4.5s
GCMT I 11 23 47 49.6–.20 26.85N 143.78E 12 5.2W,4.5s
NEIC I 11 23 47 49.6–.21 26.63N 143.67E 10 5.1b,4.5s
MOS I 11 23 47 50.5–1.3 26.70N 143.80E 33 5.0b,4.4s
JMA I 11 23 47 51.5–.10 27.09N 143.70E 23 5.1,4.4s
BJI I 11 23 47 51.0 26.66N 143.54E 30 5.1b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ45.00000°,λ-68.00000°. NP2:ϕ_s301.00000°,δ49.00000°,λ-111.00000°. $M_0$4.51000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=10.8km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.6km az=163.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c86; s112,c182; Duration: 1$\overline{0}$ Moment tensor: Scale 10^{16}Nm; M_{rr}-5.47±.12 $M_{\theta\theta}$1.18±.10; $M_{\phi\phi}$4.30±.10; $M_{r\theta}$4.17±.34; $M_{\theta\phi}$-3.90±.08; $M_{\phi r}$-0.92±.31; Best double couple: NP1:ϕ_s302.00000°,δ63.00000°,λ-116.00000°. NP2:ϕ_s170.00000°,δ37.00000°,λ-49.00000°. Principal axes: T 7.7260,Plg14.0000°,Azm51.0000°; N -0.1670,Plg23.0000°,Azm315.0000°; P -7.5490,Plg62.0000°,Azm170.0000° $M_0$7.63800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.8km az=165.0.
MOS Error ellipse: s-maj=11.0km s-min=5.0km az=107.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 12 00 16 56.2–.85 26.6N–.10 143.73E–.10 10 4.0b 28 1-149
ISCJB I 12 00 16 54.5–.64 26.57N–.10 143.75E–.08 10 4.1s,4.0b **¶16151114**
IDC I 12 00 16 54.8–.86 26.54N 143.72E 0 4.1,4.1
NEIC I 12 00 16 55.9–.58 26.59N 143.84E 10 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=8.5km az=23.7.
IDC Error ellipse: s-maj=29.1km s-min=17.4km az=67.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=11.5km az=59.0.
ISC I 12 00 40 41.7–1.2 26.3N–.10 143.1E–.20 10 3.4b 8 1-72
ISCJB I 12 00 40 39.4–1.0 26.3N–.10 143.3E–.20 10 3.4b **¶17189957**
IDC I 12 00 40 40.3–1.2 26.30N 143.11E 0 3.9L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.2km s-min=11.3km az=142.8.
IDC Error ellipse: s-maj=38.4km s-min=17.6km az=66.0.
IDC I 12 01 35 05.9–5.2 26.61N 144.25E 0 3.6,3.4
¶17189960
IDC Error ellipse: s-maj=156.3km s-min=26.9km az=2.0.
IDC I 12 01 42 47.3–2.9 27.18N 143.75E 0 3.8,3.5
¶17189961
IDC Error ellipse: s-maj=73.1km s-min=21.3km az=164.0.
ISC I 12 01 46 21.1–2.1 26.5N–.30 144.1E–.10 10 3.8b 8 2-83
IDC I 12 01 46 20.1–2.9 26.61N 144.27E 0 4.1,3.8L **¶17189962**
ISC Event type ke.
IDC Error ellipse: s-maj=76.7km s-min=25.2km az=6.0.
ISC I 12 04 07 31.9–1.1 26.2N–.10 143.0E–.20 10 3.9b 8 1-79
ISCJB I 12 04 07 30.4–1.0 26.2N–.10 143.2E–.20 10 3.8b,3.1s **¶17189967**
IDC I 12 04 07 31.0–1.2 26.19N 142.95E 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.0km s-min=12.3km az=136.8.
IDC Error ellipse: s-maj=33.6km s-min=20.2km az=62.0.
ISC I 12 04 11 29.3–.56 26.79N–.08 143.74E–.05 10 4.5b,3.1s 107 1-149
NIED I 12 04 11 00 27.00N 143.90E 5 4.2W,3.1s **¶15928079**
IDC I 12 04 11 26.8–.61 26.67N 143.85E 0 4.3,4.2
JMA I 12 04 11 28.1–.30 26.98N 143.90E 15 4.8,4.2
NEIC I 12 04 11 28.8–.42 26.70N 143.74E 10 4.7b,4.2
BJI I 12 04 11 28.7 26.87N 143.62E 6 5.0b,4.7s
MOS I 12 04 11 30.0–1.4 26.60N 143.78E 31 4.5b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ34.00000°,λ-82.00000°. NP2:ϕ_s141.00000°,δ57.00000°,λ-95.00000°. $M_0$2.10000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=15.0km az=64.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=9.4km az=44.0.
MOS Error ellipse: s-maj=19.4km s-min=8.1km az=114.9.
ISC I 12 04 20 35.9–.97 26.7N–.10 143.7E–.10 10 3.9b 11 1-149
ISCJB I 12 04 20 33.9–.83 26.7N–.10 143.82E–.09 10 3.8b **¶17189968**
IDC I 12 04 20 34.3–.89 26.65N 143.81E 0 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=11.4km az=20.4.
IDC Error ellipse: s-maj=25.5km s-min=20.8km az=78.0.
ISC I 12 04 21 18.9–.90 26.7N–.10 143.80E–.09 10 4.1b 16 2-149
ISCJB I 12 04 21 17.3–.72 26.7N–.10 143.87E–.09 10 4.0b **¶17189971**
IDC I 12 04 21 17.7–.82 26.67N 143.88E 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=10.9km az=15.3.
IDC Error ellipse: s-maj=23.3km s-min=19.0km az=79.0.
ISC I 12 08 00 40.9–1.2 27.14N–.09 143.59E–.09 10 4.1b 28 1-149
NIED I 12 08 00 00 27.10N 143.70E 17 3.8W **¶16151143**
ISCJB I 12 08 00 39.5–1.1 27.20N–.07 143.64E–.07 10 4.0b
NEIC I 12 08 00 39.7–.98 26.63N 143.05E 10 4.5b
IDC I 12 08 00 39.2–1.0 26.63N 142.79E 0 4.1,3.9
JMA I 12 08 00 41.1–.40 27.07N 143.71E 24 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ47.00000°,λ153.00000°. NP2:ϕ_s198.00000°,δ70.00000°,λ46.00000°. $M_0$4.82000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=6.0km az=136.8.
NEIC Event type se. Error ellipse: s-maj=32.5km s-min=15.4km az=68.0.
IDC Error ellipse: s-maj=34.4km s-min=17.1km az=64.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.

ISC I 12 08 16 52.6–1.1 26.4N–.20 143.5E–.20 10 3.9b 10 1-84
ISCJB I 12 08 16 50.6–.98 26.5N–.10 143.6E–.10 10 3.6b **¶17189981**
IDC I 12 08 16 50.6–1.3 26.41N 143.69E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=12.6km az=31.7.
IDC Error ellipse: s-maj=36.2km s-min=24.8km az=64.0.
ISC I 12 08 56 46.3–1.0 26.5N–.10 144.0E–.10 10 3.5b 9 2-149
ISCJB I 12 08 56 44.7–.92 26.5N–.10 144.0E–.10 10 3.6b **¶17189982**
IDC I 12 08 56 45.3–.99 26.49N 144.04E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=11.7km az=29.5.
IDC Error ellipse: s-maj=30.5km s-min=23.0km az=86.0.
ISC I 12 10 06 25.8–1.5 26.9N–.10 143.72E–.09 10 7 1-52
ISCJB I 12 10 06 23.3–1.4 26.9N–.10 143.88E–.09 10 3.6b **¶17189985**
IDC I 12 10 06 25.0–8.0 26.69N 143.59E 0 3.8,3.6
JMA I 12 10 06 28.7 27.14N 143.72E 37–4 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=10.2km az=160.6.
IDC Error ellipse: s-maj=302.5km s-min=33.3km az=76.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC I 12 12 22 39.7–5.5 27.20N 142.61E 0 3.7,3.4
¶17189992
IDC Error ellipse: s-maj=210.1km s-min=31.1km az=75.0.
ISC I 12 13 58 25.5–1.0 27.1N–.10 143.60E–.08 10 3.5b 18 1-80
JMA I 12 13 58 23.4–.10 27.18N 143.81E 21 3.5 **¶17189997**
ISCJB I 12 13 58 24.6–1.0 27.32N–.08 143.64E–.08 10 3.6b
IDC I 12 13 58 24.1–1.1 27.06N 143.57E 0 3.8,3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=5.9km az=141.8.
IDC Error ellipse: s-maj=28.4km s-min=18.4km az=168.0.
IDC I 12 18 47 03.9–2.0 26.97N 143.69E 0 3.6,3.5L
¶17190007
IDC Error ellipse: s-maj=40.9km s-min=22.9km az=49.0.
IDC I 12 19 51 39.6–1.9 26.90N 143.69E 0 3.8,3.8L
¶17190008
IDC Error ellipse: s-maj=40.7km s-min=21.5km az=52.0.
ISC I 12 19 56 45.6–.86 27.1N–.10 143.75E–.08 10 3.7b 21 1-79
ISCJB I 12 19 56 43.8–.68 27.20N–.07 143.81E–.06 10 3.7b **¶17190009**
IDC I 12 19 56 43.8–.82 27.03N 143.87E 0 4.0,3.7
JMA I 12 19 56 46.4–.20 27.13N 143.76E 22 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.0km az=153.1.
IDC Error ellipse: s-maj=22.4km s-min=18.7km az=126.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 12 19 57 26.3–1.1 27.08N 143.82E 0 4.0,3.7
¶17190012
IDC Error ellipse: s-maj=33.4km s-min=23.7km az=123.0.
IDC I 12 20 00 51.4–1.5 27.00N 143.79E 0 3.8,3.6L
¶17190013
IDC Error ellipse: s-maj=29.1km s-min=25.5km az=175.0.
ISC I 12 20 16 42.7–1.4 27.6N–.10 143.3E–.10 10 3.7b 15 1-58
ISCJB I 12 20 16 40.2–.00 27.69N–.07 143.5E–.10 10 3.6b **¶17190015**
IDC I 12 20 16 41.4–1.4 27.56N 143.35E 0 3.8,3.6
JMA I 12 20 16 45.3–.10 27.68N 143.30E 50 3.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=6.3km az=34.5.
IDC Error ellipse: s-maj=29.2km s-min=19.6km az=93.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 12 21 26 32.5–1.2 26.73N 144.03E 0 3.7s,3.7
¶17190021
IDC Error ellipse: s-maj=32.1km s-min=22.1km az=78.0.
ISC I 12 21 32 54.6–.18 26.97N–.02 140.02E–.02 524–1 6.2b 3157 2-172
NIED I 12 21 32 00 27.10N 140.20E 500 6.4W **¶15925918**
BJI I 12 21 32 53.3 26.95N 140.07E 520 6.5b,6.4b
NEIC I 12 21 32 53.9–.08 26.97N 139.88E 512 6.5W,6.5W
ISCJB I 12 21 32 54.4–.19 26.93N–.01 139.96E–.01 527–2 6.2b,6.5W
IDC I 12 21 32 54.8–.48 26.94N 140.08E 521–4 6.5,5.7
MOS I 12 21 32 54.1–.99 26.96N 139.94E 526 6.2b,5.7s
JMA I 12 21 32 54.5–.30 27.08N 140.17E 516–4 6.3,5.7s
GCMT I 12 21 32 55.2–.10 26.94N 139.94E 512–0 6.5W,5.7s
NEIC I 12 21 32 55.0–.00 26.94N 140.01E 520 6.5W,5.7s
NEIC I 12 21 33 08.6–.00 27.05N 140.34E 521 6.5W,5.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ34.00000°,λ-116.00000°. NP2:ϕ_s314.00000°,δ60.00000°,λ-74.00000°. $M_0$4.16000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=139.0. Recorded [2 JMA] in the Chichijima-retto and Hahajima-retto. Recorded [1 JMA] in Chiba, Fukushima, Gumma, Ibaraki, Kanagawa, Miyagi, Saitama and Tochigi, Honshu. Two events about 2 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.51 $M_{\theta\theta}$2.17 $M_{\phi\phi}$0.34 $M_{r\theta}$2.09 $M_{\theta\phi}$-2.01 $M_{\phi r}$-5.41 Best double couple: NP1:ϕ_s334.00000°,δ79.00000°,λ-72.00000°. NP2:ϕ_s95.00000°,δ21.00000°,λ-147.00000°. Principal axes: T 6.4400,Plg31.0000°,Azm49.0000°; N 0.2600,Plg17.0000°,Azm150.0000°; P -6.7000,Plg53.0000°,Azm265.0000° $M_0$6.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s95.00000°,δ25.00000°,λ-142.00000°. NP2:ϕ_s330.00000°,δ75.00000°,λ-70.00000°. Principal axes: T Plg27.0000°,Azm44.0000°; N Plg0.0000°,Azm0.0000°; P Plg56.0000°,Azm265.0000°
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.6km az=149.1.
IDC Error ellipse: s-maj=7.4km s-min=5.2km az=84.0.
MOS Error ellipse: s-maj=6.3km s-min=3.6km az=105.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s141,c355; s124,c225; Duration: 4$\overline{3}$4 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.56±.03 $M_{\theta\theta}$4.17±.05; $M_{\phi\phi}$-0.61±.05; $M_{r\theta}$2.32±.04; $M_{\theta\phi}$-2.61±.04; $M_{\phi r}$-5.22±.04; Best double couple: NP1:ϕ_s325.00000°,δ74.00000°,λ-63.00000°. NP2:ϕ_s84.00000°,δ31.00000°,λ-147.00000°. Principal axes: T 7.2630,Plg24.0000°,Azm35.0000°; N 0.2520,Plg26.0000°,Azm137.0000°; P -7.5180,Plg53.0000°,Azm268.0000° $M_0$7.39000×10^{18}
NEIC Event type se. Moment Tensor Solution. s53 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.96 $M_{\theta\theta}$2.87 $M_{\phi\phi}$0.09 $M_{r\theta}$1.93 $M_{\theta\phi}$-1.20 $M_{\phi r}$-4.77 Best double couple: NP1:ϕ_s327.00000°,δ76.00000°,λ-71.00000°. NP2:ϕ_s91.00000°,δ23.00000°,λ-143.00000°. Principal axes: T 5.3800,Plg29.0000°,Azm42.0000°; N 1.1400,Plg18.0000°,Azm143.0000°; P -6.5200,Plg55.0000°,Azm261.0000° $M_0$5.90000×10^{18}
NEIC Event type se. Moment Tensor Solution. s76 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.21 $M_{\theta\theta}$3.59 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.11 $M_{\theta\phi}$-2.90 $M_{\phi r}$-5.12 Best double couple: NP1:ϕ_s329.00000°,δ75.00000°,λ-63.00000°. NP2:ϕ_s86.00000°,δ31.00000°,λ-149.00000°. Principal axes: T 7.1400,Plg25.0000°,Azm38.0000°; N -0.0300,Plg26.0000°,Azm141.0000°; P -7.1100,Plg53.0000°,Azm271.0000° $M_0$7.10000×10^{18}
JMA I 12 23 12 38.6–.20 27.12N 140.81E 536 4.3
¶600518129
JMA Error ellipse: s-maj=3.3km s-min=6.9km az=-1.0.
ISC I 13 06 19 01.9–.79 26.9N–.10 143.94E–.08 10 3.9b 22 2-157
ISCJB I 13 06 19 00.5–.62 26.86N–.10 143.98E–.07 10 3.8b **¶16031134**
IDC I 13 06 19 00.6–.85 26.86N 144.06E 0 4.0,3.8
NEIC I 13 06 19 01.9–.56 26.90N 144.05E 10 4.0b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=8.6km az=9.5.
IDC Error ellipse: s-maj=28.4km s-min=19.8km az=72.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=11.6km az=69.0.
ISC I 13 07 25 32.6–.95 27.4N–.10 143.3E–.10 10 3.7b 15 1-80
ISCJB I 13 07 25 30.5–.74 27.36N–.09 143.5E–.10 10 3.8b **¶16151220**
IDC I 13 07 25 31.1–.99 27.35N 143.36E 0 3.9,3.8L
NEIC I 13 07 25 32.5–.65 27.35N 143.34E 10 4.3b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=12.5km az=140.3.
IDC Error ellipse: s-maj=24.7km s-min=19.1km az=148.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=12.7km az=94.0.
IDC I 13 07 34 19.8–.76 27.23N 140.38E 450–11 3.7,3.1
¶17190038
IDC Error ellipse: s-maj=31.8km s-min=20.8km az=82.0.

IDC I 13 07 59 07.7–1.2 27.35N 143.47E 0 3.6,3.4
¶17190040

IDC Error ellipse: s-maj=31.4km s-min=24.1km az=119.0.
ISC I 13 08 38 19.8–.42 27.39N–.04 143.24E–.05 10 4.7b,3.8s 195 1-149
NIED I 13 08 38 00 27.40N 143.40E 11 4.4W,3.8s **¶15925943**
IDC I 13 08 38 17.8–.45 27.33N 143.37E 0 4.6,4.5
ISCJB I 13 08 38 19.1–.22 27.54N–.03 143.20E–.03 10 4.7b,3.8s
JMA I 13 08 38 19.5–.20 27.38N 143.44E 43 4.7,3.8s
BJI I 13 08 38 20.1 27.18N 143.11E 26 5.0b,4.7b
MOS I 13 08 38 20.9–.86 27.29N 143.35E 33 4.8b,4.7b
NEIC I 13 08 38 21.2–2.4 27.30N 143.29E 19–14 4.9b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ28.00000°,λ-112.00000°. NP2:ϕ_s173.00000°,δ64.00000°,λ-79.00000°. $M_0$5.26000×10^{15}
IDC Error ellipse: s-maj=13.1km s-min=11.9km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.5km az=44.9.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=13.9km s-min=6.8km az=110.8.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.8km az=124.0.
ISC I 13 09 36 22.4–.38 27.43N–.04 143.22E–.05 27 4.8b,4.1s 430 1-162
NIED I 13 09 36 00 27.50N 143.40E 8 4.6W,4.1s **¶15925947**
IDC I 13 09 36 17.8–.46 27.29N 143.33E 0 4.7,4.6
NEIC I 13 09 36 19.4–.16 27.26N 143.32E 10 5.0b,4.6
JMA I 13 09 36 19.4–.10 27.48N 143.43E 40 4.7,4.6
MOS I 13 09 36 20.9–1.3 27.34N 143.24E 33 4.9b,4.6
ISCJB I 13 09 36 21.6–.14 27.60N–.02 143.16E–.02 27 4.8b,4.0s
BJI I 13 09 36 24.1 27.44N 142.71E 32 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ30.00000°,λ-106.00000°. NP2:ϕ_s171.00000°,δ61.00000°,λ-81.00000°. $M_0$8.31000×10^{15}
IDC Error ellipse: s-maj=13.2km s-min=12.2km az=54.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.4km az=178.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=13.8km s-min=6.2km az=109.5.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.6km az=168.0.
IDC I 13 10 38 40.1–1.3 26.94N 143.81E 0 3.8,3.6L
¶17190049

IDC Error ellipse: s-maj=34.4km s-min=23.6km az=78.0.
ISC I 13 11 13 50.5–.89 27.46N–.08 143.28E–.08 10 3.7b 21 1-80
ISCJB I 13 11 13 48.5–.70 27.47N–.07 143.39E–.07 10 3.7b **¶17190050**
IDC I 13 11 13 48.7–.81 27.35N 143.40E 0 3.9,3.7
JMA I 13 11 13 52.6–.10 27.40N 143.27E 20 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=5.7km az=138.5.
IDC Error ellipse: s-maj=20.2km s-min=17.5km az=118.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 13 13 28 48.4–2.9 26.89N 143.94E 0 3.7,3.5
¶17190054

IDC Error ellipse: s-maj=69.7km s-min=28.1km az=55.0.
IDC I 13 14 09 30.1–2.3 26.92N 143.79E 0 3.7,3.6
¶17190055

IDC Error ellipse: s-maj=57.5km s-min=25.7km az=61.0.
ISC I 13 16 07 01.7–.38 26.94N–.05 143.56E–.04 10 4.6b,4.4s 159 1-150
IDC I 13 16 07 00.7–.51 26.93N 143.65E 0 4.3,4.2 **¶15954479**
ISCJB I 13 16 07 00.4–.27 27.01N–.04 143.61E–.03 10 4.8s,4.6b
NEIC I 13 16 07 01.8–.23 26.90N 143.61E 10 4.9b,4.6b
JMA I 13 16 07 02.9 27.11N 143.67E 62 4.7,4.6b
MOS I 13 16 07 04.0–1.1 26.87N 143.60E 37 4.4b,4.6b
BJI I 13 16 07 06.7 26.90N 143.60E 49 5.0b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=12.9km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=159.5.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=5.3km az=151.0.
MOS Error ellipse: s-maj=19.1km s-min=9.1km az=117.0.
IDC I 13 16 12 53.6–6.1 27.00N 143.82E 0 3.6,3.5
¶17190057

IDC Error ellipse: s-maj=241.5km s-min=21.8km az=75.0.
ISC I 13 16 16 07.5–1.5 27.0N–.20 143.50E–.10 10 3.7b 13 1-83
IDC I 13 16 16 05.0–2.0 26.85N 143.61E 0 3.8,3.7 **¶17190058**
ISCJB I 13 16 16 06.2–1.4 27.0N–.20 143.53E–.10 10 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC I 13 18 21 02.9–6.6 26.92N 143.47E 0 3.7,3.4
¶17190082

IDC Error ellipse: s-maj=257.1km s-min=26.2km az=74.0.
ISC I 13 21 16 54.6–.50 26.87N–.05 142.62E–.07 33 4.1b 67 0-150
NIED I 13 21 16 00 26.80N 142.90E 8 4.3W **¶16019211**
JMA I 13 21 16 49.9–.10 26.84N 142.88E 68 4.0
IDC I 13 21 16 49.2–.59 26.81N 142.57E 0 4.2,4.1
NEIC I 13 21 16 50.9–.29 26.80N 142.56E 10 4.2b,4.1
ISCJB I 13 21 16 52.6–.40 26.95N–.04 142.72E–.05 33 4.2b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ15.00000°,λ69.00000°. NP2:ϕ_s11.00000°,δ76.00000°,λ96.00000°. $M_0$3.61000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 13 23 18 51.3–1.0 27.2N–.10 143.4E–.10 10 4.2b 13 1-94
ISCJB I 13 23 18 49.8–.88 27.3N–.10 143.43E–.08 10 4.1b **¶16032759**
IDC I 13 23 18 49.8–2.0 27.16N 143.36E 0 4.0,3.8L
NEIC I 13 23 18 51.2–.64 27.20N 143.40E 10 4.2b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=8.9km az=159.4.
IDC Error ellipse: s-maj=33.1km s-min=26.9km az=40.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=11.4km az=101.0.
ISC I 14 00 28 03.4–.52 27.43N–.07 143.34E–.07 35 4.0b 46 1-150
IDC I 14 00 27 58.0–.85 27.40N 143.42E 0 4.0,3.9 **¶16032766**
NEIC I 14 00 27 59.1–1.5 27.44N 143.40E 6–9 4.3b,3.9
ISCJB I 14 00 28 01.7–.36 27.44N–.06 143.37E–.05 33 4.1b,3.9
JMA I 14 00 28 01.7–.30 27.53N 143.28E 58 3.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=16.0km az=153.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.8km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.1km az=146.7.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 14 02 15 54.2–1.3 27.1N–.10 143.5E–.10 10 3.7b 14 1-79
ISCJB I 14 02 15 52.2–1.1 27.1N–.10 143.69E–.08 10 3.7b **¶17190124**
IDC I 14 02 15 52.9–1.4 26.93N 143.48E 0 3.8,3.7
JMA I 14 02 15 53.8–.30 27.13N 143.60E 8 4.4,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=8.1km az=152.7.
IDC Error ellipse: s-maj=29.4km s-min=22.7km az=62.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 14 09 35 53.7–.97 26.71N 143.72E 0 3.9,3.7L
¶17190151

IDC Error ellipse: s-maj=24.5km s-min=19.8km az=42.0.
IDC I 14 12 22 12.4–8.3 26.77N 144.01E 0 3.6,3.4
¶17190164

IDC Error ellipse: s-maj=313.3km s-min=31.8km az=75.0.
ISC I 14 13 22 32.9–1.1 27.1N–.10 143.78E–.09 10 3.5b 8 1-79
ISCJB I 14 13 22 30.8–.94 27.1N–.10 143.89E–.09 10 3.5b **¶17190166**
IDC I 14 13 22 31.4–1.0 27.02N 143.84E 0 3.8,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=11.8km az=176.7.
IDC Error ellipse: s-maj=27.6km s-min=23.0km az=102.0.
IDC I 14 13 58 41.8–1.3 26.59N 143.03E 0 3.7,3.5
¶17190169

IDC Error ellipse: s-maj=34.3km s-min=23.1km az=58.0.
IDC I 14 18 19 10.0–9.8 26.82N 144.20E 0 3.5,3.4
¶17190200

IDC Error ellipse: s-maj=375.1km s-min=26.0km az=73.0.
ISC I 14 18 26 22.3–1.2 27.0N–.10 143.5E–.10 10 3.6b 11 1-79
ISCJB I 14 18 26 20.0–.93 27.1N–.10 143.7E–.10 10 3.6b **¶17190202**
IDC I 14 18 26 20.9–1.2 26.99N 143.53E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=13.2km az=9.9.
IDC Error ellipse: s-maj=28.7km s-min=19.3km az=66.0.
ISC I 14 20 33 42.7–.61 26.91N–.08 143.83E–.06 10 4.0b 37 1-149
ISCJB I 14 20 33 41.1–.56 26.96N–.07 143.97E–.05 10 4.0b **¶16032770**
IDC I 14 20 33 41.2–.63 26.77N 143.88E 0 4.1,4.0
NEIC I 14 20 33 42.7–.42 26.82N 143.84E 10 4.3b,4.0
JMA I 14 20 33 45.7–.20 27.06N 143.77E 95 3.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=5.8km az=168.0.
IDC Error ellipse: s-maj=17.9km s-min=15.7km az=62.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.7km az=68.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 14 20 36 18.2–1.2 26.8N–.10 143.9E–.10 10 3.5b 8 2-149
ISCJB I 14 20 36 15.5–1.2 26.9N–.10 144.0E–.10 10 3.6b **¶17190210**
IDC I 14 20 36 16.9–1.4 26.78N 143.87E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.0km s-min=13.6km az=31.2.
IDC Error ellipse: s-maj=35.0km s-min=21.4km az=46.0.
ISC I 15 00 29 19.5–.75 27.34N–.10 140.4E–.10 450 3.5b 27 2-123
ISCJB I 15 00 29 18.4–.55 27.29N–.07 140.2E–.10 450 3.6b **¶16019218**
IDC I 15 00 29 18.9–.62 27.23N 140.29E 443–7 4.2,3.5
JMA I 15 00 29 20.3–.20 27.51N 140.59E 447 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=7.8km az=151.3.
IDC Error ellipse: s-maj=18.8km s-min=14.5km az=59.0.
JMA Error ellipse: s-maj=3.3km s-min=7.9km az=-1.0.
ISC I 15 02 31 33.5–.63 27.20N–.08 143.43E–.08 10 4.4b 37 1-125
ISCJB I 15 02 31 31.5–.48 27.22N–.06 143.50E–.06 10 4.2b **¶16005272**
IDC I 15 02 31 32.1–.81 27.18N 143.43E 0 4.1,4.0
NEIC I 15 02 31 33.5–.31 27.20N 143.45E 10 4.6b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=160.4.
IDC Error ellipse: s-maj=18.8km s-min=17.5km az=82.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.5km az=76.0.
ISC I 15 02 33 31.8–.57 27.18N–.08 143.38E–.08 10 4.5b,3.7s 50 1-149
ISCJB I 15 02 33 29.8–.40 27.17N–.05 143.46E–.05 10 4.4b,3.5s **¶16005273**
IDC I 15 02 33 30.7–.79 27.14N 143.33E 0 4.2,4.1
NEIC I 15 02 33 32.1–.25 27.18N 143.35E 10 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.3km az=160.3.
IDC Error ellipse: s-maj=17.7km s-min=17.5km az=41.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=102.0.
ISC I 15 08 45 37.5–.44 27.34N–.05 143.42E–.06 35 4.8b 159 1-149
NIED I 15 08 45 00 27.40N 143.40E 5 4.0W **¶15931085**
BJI I 15 08 45 30.0 27.14N 143.51E 8 5.0b,4.8s
IDC I 15 08 45 31.8–.62 27.22N 143.40E 0 4.5,4.4
NEIC I 15 08 45 33.9–.22 27.24N 143.38E 10 5.1b,4.4
MOS I 15 08 45 34.8–1.1 27.29N 143.43E 32 4.8b,4.4
JMA I 15 08 45 35.1 27.37N 143.37E 68 4.3,4.4
ISCJB I 15 08 45 36.8–.31 27.51N–.03 143.27E–.04 33 4.6b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ32.00000°,λ-33.00000°. NP2:ϕ_s119.00000°,δ73.00000°,λ-117.00000°. $M_0$1.20000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC I 15 08 52 01.1–1.2 26.72N 141.65E 0 3.9,3.8
¶17190233

IDC Error ellipse: s-maj=30.7km s-min=19.3km az=150.0.
IDC I 15 13 40 29.5–2.5 28.55N 138.35E 522–30 3.5,2.9
¶17190251

IDC Error ellipse: s-maj=29.5km s-min=19.4km az=93.0.
ISC I 15 15 23 03.3–.97 26.5N–.10 144.02E–.08 10 3.8b 14 2-148
IDC I 15 15 23 02.1–1.1 26.49N 144.08E 0 3.9,3.9L **¶17190262**
JMA I 15 15 23 07.4 27.13N 143.84E 9–2 3.7,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=24.4km az=20.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 15 15 58 34.7–.98 27.2N–.10 143.46E–.08 10 3.5b 13 1-80
ISCJB I 15 15 58 32.8–.78 27.27N–.09 143.53E–.07 10 3.6b,2.8s **¶16151497**
IDC I 15 15 58 33.2–1.0 27.19N 143.48E 0 4.0L,3.9
NEIC I 15 15 58 34.6–.63 27.19N 143.46E 10 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=8.1km az=158.8.
IDC Error ellipse: s-maj=28.4km s-min=21.0km az=150.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=11.3km az=89.0.
ISC I 15 16 09 50.6–1.2 27.4N–.10 143.3E–.10 10 3.4b 8 1-71
ISCJB I 15 16 09 48.7–1.1 27.4N–.10 143.3E–.10 10 3.5b **¶17190266**
IDC I 15 16 09 49.0–1.2 27.34N 143.38E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=11.0km az=145.2.
IDC Error ellipse: s-maj=28.7km s-min=21.6km az=136.0.
IDC I 15 16 47 56.4–1.2 27.39N 143.35E 0 3.9,3.6
¶17190268

IDC Error ellipse: s-maj=40.4km s-min=26.4km az=91.0.
ISC I 15 20 23 16.8–.96 27.4N–.10 143.4E–.10 10 3.6b 12 1-95
ISCJB I 15 20 23 15.2–.84 27.5N–.10 143.4E–.10 10 3.6b **¶16395961**
IDC I 15 20 23 15.2–1.0 27.42N 143.39E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=14.3km az=44.6.
IDC Error ellipse: s-maj=26.5km s-min=17.8km az=145.0.
ISC I 15 20 23 28.6–.53 27.49N–.05 143.24E–.07 35 4.1b 55 1-149
IDC I 15 20 23 22.7–.64 27.35N 143.38E 0 4.1,4.0 **¶17190274**
NEIC I 15 20 23 24.4–.33 27.39N 143.37E 10 4.5b,4.0
JMA I 15 20 23 26.2–.20 27.47N 143.28E 69 3.8,4.0
ISCJB I 15 20 23 27.4–.44 27.63N–.03 143.22E–.05 33 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 21 31 26.8–.68 27.40N–.08 143.36E–.06 10 4.0b 44 1-149
IDC I 15 21 31 24.9–.89 27.31N 143.41E 0 4.0,3.8 **¶16057172**
ISCJB I 15 21 31 25.9–.46 27.54N–.05 143.33E–.05 10 4.0b,3.8
NEIC I 15 21 31 26.6–.28 27.35N 143.35E 10 4.1b,3.8
JMA I 15 21 31 27.7–.20 27.54N 143.27E 16 4.3,3.8
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=18.6km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.3km az=136.1.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.1km az=172.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 15 23 32 56.5–1.2 27.4N–.10 143.4E–.10 10 3.8b 8 1-78
ISCJB I 15 23 32 54.6–1.1 27.4N–.10 143.4E–.10 10 4.2s,3.7b **¶17190280**
IDC I 15 23 32 54.6–1.3 27.36N 143.47E 0 3.9,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=11.4km az=143.2.
IDC Error ellipse: s-maj=31.0km s-min=24.2km az=116.0.
ISC I 16 01 03 58.2–.63 26.98N–.08 143.83E–.08 35 4.1b 40 1-87
IDC I 16 01 03 52.7–.89 26.91N 143.96E 0 4.2,4.1 **¶16031147**
NEIC I 16 01 03 54.3–.40 26.96N 143.95E 10 4.5b,4.1
JMA I 16 01 03 55.8–.10 27.23N 143.81E 23 4.5b,4.1
ISCJB I 16 01 03 56.2–.46 27.07N–.06 143.86E–.05 33 4.2b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 16 01 38 46.5–1.2 27.33N 143.61E 0 3.9,3.7
¶17190283

IDC Error ellipse: s-maj=39.0km s-min=28.2km az=91.0.
IDC I 16 02 31 47.4–1.5 26.93N 143.92E 0 3.8,3.7
¶17190286

IDC Error ellipse: s-maj=48.7km s-min=29.2km az=84.0.

IDC I 16 03 04 02.7–1.2 27.12N 143.57E 0 3.9,3.9
¶17190290
IDC Error ellipse: s-maj=43.6km s-min=25.9km az=94.0.
ISC I 16 05 50 34.9–.71 27.13N–.08 143.72E–.07 10 3.9b 24 1-149
IDC I 16 05 50 33.3–.76 26.97N 143.81E 0 4.1,3.9 **¶16151537**
ISCJB I 16 05 50 34.4–.67 27.28N–.06 143.75E–.06 10 3.9b,3.9
JMA I 16 05 50 34.8–.10 27.30N 143.72E 8 3.9b,3.9
NEIC I 16 05 50 34.8–.44 27.00N 143.72E 10 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=20.1km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.4km az=147.5.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=10.0km az=57.0.
ISC I 16 06 39 21.0–.46 27.45N–.06 143.33E–.05 35 4.6b,3.6s 152 1-162
BJI I 16 06 39 14.9 27.24N 143.11E 7 5.0b,4.8s **¶15931176**
IDC I 16 06 39 15.4–.50 27.41N 143.28E 0 4.5,4.4
NEIC I 16 06 39 17.1–.19 27.38N 143.28E 10 4.8b,4.4
MOS I 16 06 39 18.2–1.0 27.32N 143.30E 30 4.7b,4.4
ISCJB I 16 06 39 20.0–.30 27.61N–.03 143.16E–.04 33 4.6b,3.5s
JMA I 16 06 39 19.9–.10 27.49N 143.04E 83 4.5,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=11.4km az=164.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.2km az=183.0.
MOS Error ellipse: s-maj=14.9km s-min=8.1km az=116.5.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=41.8.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC I 16 06 52 02.1–.56 27.42N–.08 143.36E–.06 10 4.2b 35 1-149
ISCJB I 16 06 52 00.4–.48 27.39N–.07 143.39E–.06 10 4.2b **¶16151539**
IDC I 16 06 52 00.5–.61 27.37N 143.36E 0 4.3,4.2
NEIC I 16 06 52 01.9–.34 27.35N 143.40E 10 4.3b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.5km az=155.9.
IDC Error ellipse: s-maj=16.8km s-min=15.2km az=138.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=8.2km az=220.0.
ISC I 16 07 00 47.3–1.1 27.4N–.10 143.3E–.10 10 3.6b 9 1-87
ISCJB I 16 07 00 45.6–1.0 27.5N–.10 143.4E–.10 10 3.6b **¶17190300**
IDC I 16 07 00 45.7–1.2 27.37N 143.32E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=10.6km az=144.5.
IDC Error ellipse: s-maj=30.8km s-min=19.6km az=141.0.
ISC I 16 07 03 52.8–1.3 27.38N–.06 143.34E–.05 7–7 4.7b,3.6s 109 1-149
NIED I 16 07 03 00 27.50N 143.50E 8 4.4W,3.6s **¶15977975**
JMA I 16 07 03 51.2–.10 27.48N 143.52E 20–4 4.5,3.6s
IDC I 16 07 03 51.3–.55 27.36N 143.38E 0 4.4,4.3
ISCJB I 16 07 03 52.1–.32 27.49N–.04 143.31E–.04 10 4.6b,3.7s
NEIC I 16 07 03 53.1–.24 27.36N 143.33E 10 4.8b,3.7s
MOS I 16 07 03 55.1–1.5 27.46N 143.42E 33 4.7b,3.7s
BJI I 16 07 03 55.2 27.48N 142.70E 6 5.0b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ46.00000°,λ-70.00000°. NP2:ϕ_s325.00000°,δ47.00000°,λ-109.00000°. $M_0$4.27000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=14.1km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.9km az=135.5.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.8km az=170.0.
MOS Error ellipse: s-maj=18.5km s-min=7.7km az=118.9.
ISC I 16 07 08 56.1–.42 27.40N–.05 143.27E–.05 35 4.8b,3.8s 184 1-162
IDC I 16 07 08 50.4–.48 27.39N 143.34E 0 4.6,4.5 **¶15931179**
BJI I 16 07 08 51.6 27.45N 143.05E 6 5.0b,4.6b
NEIC I 16 07 08 52.2–.16 27.37N 143.27E 10 4.9b,4.6b
MOS I 16 07 08 53.8–1.2 27.36N 143.32E 33 4.7b,4.6b
JMA I 16 07 08 53.8–.10 27.47N 143.27E 66 4.3,4.6b
ISCJB I 16 07 08 55.2–.22 27.58N–.03 143.18E–.03 33 4.7b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA I 16 07 09 42.5 27.67N 143.14E 47–3 4.3
¶600519201
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 16 07 15 55.6–.78 27.4N–.10 143.35E–.09 10 3.8b 19 1-149
ISCJB I 16 07 15 54.5–.74 27.44N–.10 143.35E–.08 10 3.8b **¶17190301**
IDC I 16 07 15 54.5–.80 27.39N 143.40E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=9.1km az=152.4.
IDC Error ellipse: s-maj=20.7km s-min=18.6km az=180.0.
IDC I 16 07 36 39.2–1.1 26.81N 141.46E 0 3.9,3.8
¶17190304
IDC Error ellipse: s-maj=27.9km s-min=15.9km az=171.0.
ISC I 16 09 58 19.2–.61 27.50N–.06 143.22E–.07 27 4.2b 53 1-149
IDC I 16 09 58 14.0–.63 27.41N 143.36E 0 4.2,4.1 **¶16007274**
NEIC I 16 09 58 16.0–.43 27.37N 143.35E 10 4.5b,4.1
ISCJB I 16 09 58 17.6–.40 27.57N–.04 143.23E–.05 27 4.2b,2.9s
JMA I 16 09 58 17.8–.10 27.51N 143.22E 69 4.0,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=14.9km az=135.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=10.2km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.2km az=35.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 16 10 35 16.1–.85 26.8N–.10 143.9E–.10 10 4.1b 21 2-79
ISCJB I 16 10 35 13.9–.60 26.76N–.08 144.0E–.10 10 3.9b **¶16007275**
IDC I 16 10 35 14.1–.87 26.72N 144.00E 0 4.0,3.8
NEIC I 16 10 35 15.9–.48 26.79N 143.96E 10 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=11.8km az=168.3.
IDC Error ellipse: s-maj=28.3km s-min=19.3km az=78.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.4km az=79.0.
ISC I 16 11 08 14.8–.83 27.1N–.10 143.61E–.07 10 3.6b 24 1-149
ISCJB I 16 11 08 13.3–.69 27.23N–.07 143.67E–.06 10 3.6b **¶16396004**
IDC I 16 11 08 13.2–.76 27.03N 143.69E 0 3.9,3.8
JMA I 16 11 08 14.9–.60 27.39N 143.49E 0 3.4,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=6.0km az=148.2.
IDC Error ellipse: s-maj=18.9km s-min=18.2km az=113.0.
JMA Error ellipse: s-maj=8.9km s-min=4.9km az=-1.0.
ISC I 16 11 08 48.6–.81 26.8N–.10 144.03E–.10 10 4.0b 18 2-149
ISCJB I 16 11 08 46.9–.61 26.81N–.08 144.1E–.10 10 4.0b **¶17190313**
IDC I 16 11 08 47.1–.83 26.78N 144.05E 0 4.1,3.9
NEIC I 16 11 08 48.9–.45 26.83N 144.08E 10 4.5b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=11.5km az=161.7.
IDC Error ellipse: s-maj=24.0km s-min=20.2km az=104.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.4km az=70.0.
ISC I 16 11 23 18.3–1.3 27.3N–.10 143.6E–.10 10 3.6b 9 1-59
ISCJB I 16 11 23 16.7–1.2 27.4N–.10 143.6E–.10 10 3.6b **¶17190315**
IDC I 16 11 23 16.6–1.6 27.33N 143.73E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=12.3km az=146.7.
IDC Error ellipse: s-maj=34.4km s-min=28.2km az=106.0.
ISC I 16 11 49 56.5–1.2 27.38N–.04 143.28E–.04 17–6 5.1b,4.2s 738 1-150
BJI I 16 11 49 51.7 27.05N 143.26E 11 5.1b,4.8b **¶15931188**
IDC I 16 11 49 53.0–.34 27.34N 143.34E 0 4.8,4.8
ISCJB I 16 11 49 53.4–.88 27.42N–.03 143.30E–.02 6–5 5.0b,4.2s
JMA I 16 11 49 55.1–.20 27.45N 143.45E 39 4.9,4.2s
GCMT I 16 11 49 55.6–.40 27.30N 143.37E 20–1 4.9W,4.2s
NEIC I 16 11 49 55.6–1.2 27.33N 143.33E 11–7 5.1b,4.2s
MOS I 16 11 49 56.7–1.2 27.28N 143.33E 33 5.0b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=11.2km s-min=8.9km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=168.9.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.

GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c15; s78,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.38±.25 $M_{\theta\theta}$0.82±.13; $M_{\phi\phi}$2.56±.16; $M_{r\theta}$-0.51±.28; $M_{\theta\phi}$-0.39±.07; $M_{\phi r}$0.92±.27; Best double couple: NP1:ϕ_s163.00000°,δ54.00000°,λ-95.00000°. NP2:ϕ_s351.00000°,δ36.00000°,λ-84.00000°. Principal axes: T 2.8070,Plg9.0000°,Azm257.0000°; N 0.7630,Plg4.0000°,Azm166.0000°; P -3.5650,Plg80.0000°,Azm55.0000° $M_0$3.18600×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=134.0.
MOS Error ellipse: s-maj=11.6km s-min=5.3km az=111.8.
ISC I 16 12 13 17.3–.63 27.15N–.08 143.47E–.05 10 4.1b 37 1-149
JMA I 16 12 13 10.8–.10 27.04N 143.79E 2 3.9 **¶16007278**
ISCJB I 16 12 13 15.9–.45 27.23N–.04 143.50E–.05 10 4.0b
IDC I 16 12 13 15.7–.60 27.10N 143.57E 0 4.1,4.0
NEIC I 16 12 13 17.4–.36 27.15N 143.56E 10 4.5b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.5km az=142.2.
IDC Error ellipse: s-maj=18.0km s-min=15.7km az=107.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.0km az=80.0.
IDC I 16 12 23 49.4–1.4 27.37N 143.23E 0 3.6,3.3
¶17190320
IDC Error ellipse: s-maj=50.2km s-min=30.5km az=99.0.
IDC I 16 12 24 51.3–1.0 26.76N 144.27E 0 3.8,3.6
¶17190321
IDC Error ellipse: s-maj=39.0km s-min=22.4km az=79.0.
ISC I 16 12 41 00.5–1.1 27.39N–.08 143.4E–.10 35 3.7b 19 1-78
IDC I 16 12 40 54.4–.99 27.35N 143.66E 0 3.8,3.6 **¶17190323**
ISCJB I 16 12 40 57.9–.80 27.41N–.05 143.45E–.08 33 3.7b,3.6
JMA I 16 12 40 59.6–.20 27.34N 143.37E 34 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.2km s-min=19.7km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.9km az=32.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 16 12 45 44.7–.85 27.52N–.07 143.28E–.08 10 3.6b 25 1-95
IDC I 16 12 45 42.6–.82 27.29N 143.39E 0 3.9,3.8 **¶16396015**
ISCJB I 16 12 45 44.1–.74 27.65N–.04 143.30E–.08 10 3.7b,3.8
JMA I 16 12 45 44.1–.10 27.59N 143.29E 2 3.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=17.5km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.2km az=25.3.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 16 12 46 45.2–.84 27.44N–.06 143.23E–.10 27 4.0b 37 1-86
IDC I 16 12 46 40.9–.87 27.31N 143.18E 0 4.0,3.9 **¶17190324**
ISCJB I 16 12 46 42.9–.62 27.48N–.04 143.33E–.07 27 4.0b,3.9
NEIC I 16 12 46 42.5–.54 27.36N 143.21E 10 4.6b,3.9
JMA I 16 12 46 43.6–.20 27.40N 143.38E 32 3.4,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=17.1km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.4km az=14.9.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.1km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 16 13 00 24.2–.96 27.3N–.10 143.33E–.10 10 3.5b 12 1-95
ISCJB I 16 13 00 22.6–.80 27.2N–.10 143.36E–.09 10 3.5b **¶17190327**
IDC I 16 13 00 22.5–1.0 27.24N 143.44E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=11.1km az=163.7.
IDC Error ellipse: s-maj=27.2km s-min=21.7km az=86.0.
ISC I 16 13 13 47.5–.58 27.45N–.06 143.22E–.08 27 4.2b 54 1-95
IDC I 16 13 13 43.0–.60 27.34N 143.30E 0 4.1,4.1b **¶16151572**
NEIC I 16 13 13 44.7–.33 27.33N 143.27E 10 4.5b,4.1b
ISCJB I 16 13 13 46.6–.51 27.61N–.04 143.18E–.07 27 4.2b,4.1b
JMA I 16 13 13 46.2–.20 27.41N 143.35E 51 3.9,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=12.9km az=92.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.8km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.8km az=17.9.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 16 13 17 22.9–6.9 27.29N 143.15E 0 3.7,3.6
¶17190329
IDC Error ellipse: s-maj=275.2km s-min=21.7km az=73.0.
IDC I 16 13 24 26.7–1.2 26.84N 141.68E 0 3.7,3.7
¶17190330
IDC Error ellipse: s-maj=48.3km s-min=19.0km az=78.0.
ISC I 16 15 17 38.5–.56 27.51N–.06 143.26E–.07 35 4.1b,3.5s 64 1-149
IDC I 16 15 17 32.7–.55 27.36N 143.37E 0 4.2,4.1 **¶16009116**
JMA I 16 15 17 34.9–.20 27.52N 143.40E 40 4.2,4.1
NEIC I 16 15 17 34.3–.30 27.39N 143.33E 10 4.6b,4.1
MOS I 16 15 17 35.9–1.1 27.34N 143.45E 33 4.3b,4.1
ISCJB I 16 15 17 37.2–.51 27.61N–.04 143.22E–.06 33 4.1b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 16 16 12 09.6–1.2 26.60N 143.89E 0 3.7,3.6L
¶17190336
IDC Error ellipse: s-maj=35.4km s-min=21.4km az=86.0.
IDC I 16 16 35 21.6–2.8 27.31N 143.55E 0 3.9,3.7
¶17190337
IDC Error ellipse: s-maj=112.6km s-min=29.6km az=76.0.
IDC I 16 17 51 16.3–1.3 26.61N 143.83E 0 3.8,3.6
¶17190341
IDC Error ellipse: s-maj=36.7km s-min=27.2km az=75.0.
ISC I 16 18 16 21.5–.84 27.50N–.07 143.22E–.10 35 3.7b 23 1-80
IDC I 16 18 16 15.9–.82 27.26N 143.37E 0 3.9,3.8L **¶16151591**
NEIC I 16 18 16 17.6–.62 27.35N 143.33E 10 4.1b,3.8L
ISCJB I 16 18 16 19.6–.66 27.56N–.05 143.30E–.07 35 3.7b,2.6s
JMA I 16 18 16 20.4 27.62N 143.19E 28–2 4.2,2.6s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.5km az=145.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=11.3km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=5.5km az=32.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 16 18 28 13.2–1.3 27.46N–.08 143.2E–.10 27 3.6b 16 1-78
IDC I 16 18 28 09.2–1.3 27.39N 143.24E 0 3.8,3.6 **¶17190345**
ISCJB I 16 18 28 10.8–.98 27.54N–.05 143.4E–.10 27 3.6b,3.6
JMA I 16 18 28 12.2 27.72N 143.12E 4 4.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=19.5km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=6.8km az=12.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 16 21 06 40.9–1.1 27.3N–.10 143.3E–.10 10 3.5b 13 1-78
ISCJB I 16 21 06 38.8–.88 27.36N–.09 143.4E–.10 10 3.7b **¶17190350**
IDC I 16 21 06 39.5–1.0 27.30N 143.27E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=11.0km az=139.2.
IDC Error ellipse: s-maj=21.8km s-min=18.2km az=105.0.
IDC I 16 23 39 07.2–1.1 26.92N 141.47E 0 3.7,3.5
¶17190355
IDC Error ellipse: s-maj=26.9km s-min=15.1km az=177.0.
ISC I 16 23 40 39.9–.88 26.8N–.10 144.02E–.09 10 3.9b 19 2-148
ISCJB I 16 23 40 37.9–.67 26.83N–.09 144.12E–.07 10 3.9b **¶16057181**
IDC I 16 23 40 38.3–.86 26.76N 144.11E 0 4.1,3.8
NEIC I 16 23 40 39.7–.48 26.80N 144.09E 10 4.4b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=8.5km az=13.5.
IDC Error ellipse: s-maj=25.0km s-min=20.5km az=67.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.6km az=69.0.
IDC I 17 00 43 15.8–1.9 26.68N 143.92E 0 3.6,3.4
¶17190357
IDC Error ellipse: s-maj=45.3km s-min=26.9km az=53.0.
IDC I 17 03 03 42.4–6.3 27.36N 143.46E 0 3.7,3.5
¶17190368

IDC Error ellipse: s-maj=258.6km s-min=20.8km az=74.0.
ISC I 17 05 48 36.3–1.0 27.3N–.10 143.2E–.10 35 3.9b 12 1-78
IDC I 17 05 48 31.1–1.1 27.26N 143.27E 0 3.8,3.7L **¶17190380**
ISCJB I 17 05 48 33.8–.89 27.3N–.10 143.4E–.10 33 4.0b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC I 17 06 16 25.4–.95 26.75N 141.53E 0 3.7,3.5
¶17190382
IDC Error ellipse: s-maj=28.1km s-min=15.5km az=139.0.
ISC I 17 06 37 25.6–.91 26.9N–.10 141.44E–.09 10 3.8b,3.5s 12 1-151
ISCJB I 17 06 37 23.9–.92 26.8N–.20 141.36E–.08 10 3.7b,3.4s **¶17190383**
IDC I 17 06 37 24.0–1.0 26.88N 141.47E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=9.8km az=166.7.
IDC Error ellipse: s-maj=27.9km s-min=15.4km az=179.0.
IDC I 17 07 50 01.6–1.5 27.74N 144.76E 0 3.6,3.4
¶17190389
IDC Error ellipse: s-maj=48.9km s-min=30.9km az=84.0.
ISC I 17 08 31 19.7–.61 27.31N–.08 143.38E–.06 10 4.0b 41 1-149
ISCJB I 17 08 31 17.8–.49 27.37N–.05 143.45E–.05 10 4.0b **¶16151649**
IDC I 17 08 31 18.3–.73 27.32N 143.39E 0 3.9,3.8
NEIC I 17 08 31 19.6–.29 27.29N 143.38E 10 4.2b,3.8
JMA I 17 08 31 22.6–.10 27.45N 143.25E 63 3.6,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.9km az=139.2.
IDC Error ellipse: s-maj=19.4km s-min=18.1km az=99.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 17 09 00 13.6–.53 26.97N–.07 143.94E–.07 10 4.4b 55 2-148
NIED I 17 09 00 00 27.40N 143.70E 5 4.1W **¶16151650**
IDC I 17 09 00 11.8–.53 26.88N 144.00E 0 4.4,4.3
NEIC I 17 09 00 13.2–.37 26.93N 144.05E 10 4.7b,4.3
JMA I 17 09 00 16.6–.10 27.37N 143.73E 19–4 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ32.00000°,λ-47.00000°. NP2:ϕ_s118.00000°,δ67.00000°,λ-114.00000°. $M_0$1.78000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=14.8km az=92.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.2km az=79.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 17 09 21 24.1–1.7 27.3N–.20 143.4E–.10 10 4.1b 9 1-89
ISCJB I 17 09 21 22.5–1.4 27.5N–.10 143.4E–.10 10 3.8b,3.3s **¶17190392**
JMA I 17 09 21 25.0–.10 27.41N 143.38E 26 3.8b,3.3s
IDC I 17 09 21 26.7–1.2 28.14N 143.38E 0 4.0,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.0km s-min=7.8km az=136.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=47.0km s-min=22.7km az=80.0.
IDC I 17 11 38 11.6–4.9 27.09N 142.73E 0 3.6,3.5
¶17190401
IDC Error ellipse: s-maj=195.1km s-min=20.7km az=74.0.
ISC I 17 11 48 41.3–1.1 27.3N–.10 143.4E–.20 10 3.4b 7 10-71
ISCJB I 17 11 48 39.2–.93 27.4N–.10 143.4E–.20 10 3.4b **¶17190402**
IDC I 17 11 48 39.8–1.0 27.34N 143.44E 0 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.2km s-min=16.4km az=173.2.
IDC Error ellipse: s-maj=39.8km s-min=21.4km az=93.0.
ISC I 17 13 25 34.7–1.6 27.46N–.05 143.15E–.05 11–9 4.8b,4.0s 225 1-151
NIED I 17 13 25 00 27.50N 143.30E 5 4.4W,4.0s **¶15931757**
BJI I 17 13 25 30.9 27.20N 143.18E 9 5.0b,4.7b
IDC I 17 13 25 32.7–.45 27.34N 143.23E 0 4.7,4.6
NEIC I 17 13 25 34.5–.20 27.34N 143.12E 10 4.9b,4.6
MOS I 17 13 25 34.7–.89 27.32N 143.16E 27 4.8b,4.6
JMA I 17 13 25 35.1–.10 27.46N 143.34E 52 4.5,4.6
ISCJB I 17 13 25 35.5–.89 27.59N–.03 143.04E–.04 19–6 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ66.00000°,λ-25.00000°. NP2:ϕ_s296.00000°,δ67.00000°,λ-154.00000°. $M_0$4.53000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 17 13 30 19.0–.93 27.38N–.09 143.35E–.09 10 4.1b 34 1-86
ISCJB I 17 13 30 16.9–.65 27.47N–.05 143.43E–.06 10 4.0b **¶16009119**
IDC I 17 13 30 17.5–1.1 27.35N 143.39E 0 4.0,3.9b
NEIC I 17 13 30 18.9–2.3 27.37N 143.36E 10–12 4.5b,3.9b
JMA I 17 13 30 21.0–.30 27.52N 143.19E 75 3.7,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=4.9km az=39.7.
IDC Error ellipse: s-maj=25.2km s-min=19.3km az=96.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=7.2km az=85.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 17 13 48 50.3–1.2 27.3N–.10 143.4E–.10 10 3.5b 8 1-71
ISCJB I 17 13 48 48.2–1.0 27.3N–.10 143.5E–.10 10 3.4b **¶17190411**
IDC I 17 13 48 48.9–1.2 27.26N 143.36E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=12.4km az=153.2.
IDC Error ellipse: s-maj=23.2km s-min=22.1km az=117.0.
ISC I 17 13 51 56.7–1.1 27.3N–.10 143.31E–.10 10 4.0b 17 1-86
ISCJB I 17 13 51 54.9–.77 27.39N–.08 143.33E–.08 10 3.9b,3.5s **¶16009120**
IDC I 17 13 51 54.9–1.4 27.33N 143.36E 0 3.9,3.8
NEIC I 17 13 51 56.7–.72 27.34N 143.31E 10 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.3km az=140.9.
IDC Error ellipse: s-maj=37.5km s-min=20.3km az=81.0.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=8.4km az=82.0.
ISC I 17 18 05 05.2–.61 27.36N–.08 143.38E–.06 10 4.0b,3.3s 46 1-149
ISCJB I 17 18 05 03.5–.46 27.44N–.05 143.41E–.05 10 4.0b,3.5s **¶16151684**
IDC I 17 18 05 03.7–.60 27.37N 143.40E 0 4.1,4.0
NEIC I 17 18 05 05.2–.32 27.36N 143.40E 10 4.3b,4.0
JMA I 17 18 05 07.3–.10 27.44N 143.24E 70 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.6km az=138.1.
IDC Error ellipse: s-maj=16.4km s-min=15.2km az=118.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=7.1km az=87.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 17 19 26 02.4–1.9 26.8N–.30 143.72E–.09 10 3.7b 8 1-83
IDC I 17 19 26 01.0–2.8 26.71N 143.72E 0 4.1,4.1L **¶17190422**
ISC Event type ke.
IDC Error ellipse: s-maj=74.4km s-min=21.0km az=3.0.
ISC I 17 22 25 46.8–.82 27.59N–.10 143.54E–.09 10 3.7b 20 1-149
ISCJB I 17 22 25 45.3–.65 27.67N–.07 143.58E–.08 10 3.7b **¶17190431**
IDC I 17 22 25 45.3–.77 27.59N 143.62E 0 3.9,3.8
JMA I 17 22 25 49.4 27.81N 143.37E 66 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=5.8km az=137.1.
IDC Error ellipse: s-maj=21.5km s-min=17.6km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC I 18 00 24 18.4–.96 26.74N 141.56E 0 3.8,3.6
¶17190440
IDC Error ellipse: s-maj=24.3km s-min=18.9km az=131.0.
ISC I 18 00 34 07.9–.90 27.1N–.10 143.51E–.07 10 3.6b 17 1-83
ISCJB I 18 00 34 06.2–.72 27.16N–.09 143.60E–.06 10 3.7b **¶17190442**
IDC I 18 00 34 06.3–.85 27.07N 143.56E 0 3.9,3.8
JMA I 18 00 34 10.9–.20 27.29N 143.27E 87 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=6.5km az=159.4.
IDC Error ellipse: s-maj=20.9km s-min=20.1km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 18 02 30 53.1–.59 27.44N–.06 143.23E–.07 10 4.2b 43 1-149
IDC I 18 02 30 51.4–.58 27.34N 143.27E 0 4.2,4.2 **¶16016419**
ISCJB I 18 02 30 52.3–.51 27.57N–.04 143.24E–.06 10 4.2b,3.5s
NEIC I 18 02 30 53.1–.37 27.33N 143.25E 10 4.5b,3.5s
JMA I 18 02 30 54.5–.10 27.43N 143.26E 69 3.4,3.5s

ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=14.5km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.7km az=29.6.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.6km az=87.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 18 02 31 58.5–1.1 27.4N–.10 143.3E–.10 10 3.8b 12 1-79
ISCJB I 18 02 31 56.6–.97 27.5N–.10 143.4E–.10 10 3.9b **¶17190445**
IDC I 18 02 31 56.8–1.2 27.39N 143.35E 0 4.1,3.9
JMA I 18 02 32 00.8 27.65N 143.19E 51 4.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=7.1km az=138.7.
IDC Error ellipse: s-maj=28.6km s-min=21.7km az=129.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 18 04 49 25.8–.64 26.61N–.09 143.96E–.07 10 4.1b 38 2-148
IDC I 18 04 49 24.1–.68 26.51N 144.02E 0 4.2,4.0 **¶16016423**
NEIC I 18 04 49 25.5–.37 26.50N 144.01E 10 4.4b,4.0
JMA I 18 04 49 26.1 27.02N 143.90E 0 4.7,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=17.9km az=49.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.8km az=54.0.
ISC I 18 06 19 52.9–1.2 27.5N–.10 143.2E–.10 10 4.0b 13 1-78
JMA I 18 06 19 48.6–.50 27.29N 143.63E 27 4.0b **¶17190458**
ISCJB I 18 06 19 51.1–1.0 27.59N–.09 143.3E–.10 10 3.8b
IDC I 18 06 19 52.1–1.2 27.58N 143.12E 0 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=4.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=6.7km az=40.4.
IDC Error ellipse: s-maj=28.5km s-min=17.2km az=122.0.
ISC I 18 06 25 29.7–1.3 26.7N–.20 142.2E–.30 10 4.0s,4.0b 7 7-96
ISCJB I 18 06 25 27.9–1.2 26.7N–.20 142.1E–.30 10 4.0s,3.8b **¶17190459**
IDC I 18 06 25 28.1–1.3 26.70N 142.21E 0 3.9s,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.0km s-min=23.8km az=166.6.
IDC Error ellipse: s-maj=41.8km s-min=27.5km az=76.0.
ISC I 18 06 35 47.1–.98 26.9N–.10 143.61E–.08 10 3.5b 11 1-149
ISCJB I 18 06 35 45.9–.94 27.0N–.10 143.61E–.09 10 3.6b **¶17190460**
IDC I 18 06 35 46.0–1.0 26.95N 143.72E 0 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=11.0km az=175.0.
IDC Error ellipse: s-maj=25.4km s-min=21.7km az=6.0.
ISC I 18 07 48 25.2–.91 26.8N–.20 141.43E–.09 10 4.0b 14 1-85
ISCJB I 18 07 48 23.8–.59 26.77N–.10 141.32E–.06 10 4.0b **¶16007281**
IDC I 18 07 48 23.5–.88 26.82N 141.47E 0 3.9,3.8
NEIC I 18 07 48 25.4–.58 26.81N 141.43E 10 4.5b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=7.0km az=163.6.
IDC Error ellipse: s-maj=20.7km s-min=14.9km az=169.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=12.2km az=163.0.
ISC I 18 09 23 49.5–1.2 27.1N–.20 143.5E–.10 10 3.3b 7 1-57
ISCJB I 18 09 23 47.3–1.0 27.1N–.10 143.55E–.10 10 3.5b **¶17190474**
IDC I 18 09 23 48.0–1.2 27.10N 143.44E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=12.8km az=0.4.
IDC Error ellipse: s-maj=25.1km s-min=22.8km az=25.0.
IDC I 18 16 52 31.0–2.8 26.64N 143.78E 0 3.8,3.6
¶17190489
IDC Error ellipse: s-maj=70.3km s-min=24.0km az=46.0.
ISC I 18 21 48 36.0–1.1 27.4N–.10 143.3E–.10 10 4.2b 12 1-74
ISCJB I 18 21 48 33.9–.83 27.4N–.10 143.4E–.10 10 3.9b **¶17190506**
IDC I 18 21 48 34.4–1.1 27.35N 143.28E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=11.4km az=150.5.
IDC Error ellipse: s-maj=23.8km s-min=18.7km az=120.0.
IDC I 18 21 52 55.0–2.0 26.51N 144.01E 0 3.6,3.5
¶17190508
IDC Error ellipse: s-maj=52.5km s-min=26.5km az=55.0.
ISC I 18 23 42 25.9–1.1 27.2N–.10 140.3E–.20 400 2.8b 11 2-77
IDC I 18 23 42 24.9–.87 27.03N 140.33E 405–14 3.5,3.0 **¶17190514**
JMA I 18 23 42 27.1–.30 27.27N 140.39E 400 4.0,3.0
ISC Event type ke.
IDC Error ellipse: s-maj=39.7km s-min=21.3km az=81.0.
JMA Error ellipse: s-maj=3.3km s-min=5.9km az=-1.0.
IDC I 19 02 39 51.3–1.3 27.19N 143.46E 0 3.7,3.4
¶17190521
IDC Error ellipse: s-maj=28.8km s-min=26.8km az=88.0.
ISC I 19 04 46 08.0–.94 27.4N–.10 143.41E–.09 10 3.5b 11 1-95
ISCJB I 19 04 46 06.3–.77 27.4N–.10 143.43E–.09 10 3.6b **¶17190526**
IDC I 19 04 46 06.4–.89 27.36N 143.48E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=10.2km az=150.6.
IDC Error ellipse: s-maj=24.2km s-min=19.3km az=109.0.
ISC I 19 05 03 25.3–.70 27.45N–.06 143.32E–.08 10 4.1b 33 1-149
IDC I 19 05 03 23.7–.79 27.39N 143.33E 0 4.3,4.1L **¶16151815**
ISCJB I 19 05 03 24.1–.56 27.58N–.04 143.34E–.06 10 4.0b,4.1L
NEIC I 19 05 03 25.2–.33 27.38N 143.34E 10 4.1b,4.1L
JMA I 19 05 03 25.3–.20 27.53N 143.41E 31 4.3,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=24.7km s-min=15.4km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.1km az=28.7.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.9km az=124.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 19 05 04 45.4–.88 27.2N–.20 143.5E–.10 10 3.8b 11 1-95
ISCJB I 19 05 04 43.7–.72 27.1N–.10 143.52E–.08 10 3.9b **¶17190529**
IDC I 19 05 04 43.9–.87 27.16N 143.45E 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=10.2km az=169.6.
IDC Error ellipse: s-maj=24.0km s-min=17.9km az=154.0.
ISC I 19 11 24 00.5–1.2 27.4N–.10 143.3E–.10 10 3.6b 14 1-78
ISCJB I 19 11 23 58.2–.99 27.48N–.07 143.44E–.09 10 3.7b **¶17190550**
IDC I 19 11 23 58.9–1.6 27.38N 143.41E 0 3.8,3.7b
JMA I 19 11 24 02.5 27.50N 143.25E 68 3.1,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.7km az=37.5.
IDC Error ellipse: s-maj=39.0km s-min=22.3km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 19 11 24 59.7–.75 27.48N–.07 143.20E–.09 10 3.7b 25 1-95
IDC I 19 11 24 57.9–.74 27.40N 143.20E 0 4.0,3.8 **¶17190553**
ISCJB I 19 11 24 58.7–.69 27.62N–.04 143.22E–.07 10 3.7b,3.8
JMA I 19 11 25 01.4–.10 27.53N 143.27E 34 3.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=19.6km s-min=14.7km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.0km az=27.8.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 19 11 30 55.5–1.2 27.4N–.10 143.3E–.10 10 3.6b 10 1-71
ISCJB I 19 11 30 53.5–.93 27.5N–.10 143.3E–.10 10 3.7b,3.6s **¶17190554**
IDC I 19 11 30 53.9–1.1 27.39N 143.34E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=11.5km az=140.0.
IDC Error ellipse: s-maj=27.2km s-min=20.1km az=90.0.
ISC I 19 11 58 33.3–.95 27.46N–.09 143.24E–.09 10 4.0b 25 1-80
ISCJB I 19 11 58 31.6–.69 27.54N–.06 143.27E–.07 10 3.9b **¶16151849**
IDC I 19 11 58 31.7–1.1 27.41N 143.27E 0 3.9,3.8
NEIC I 19 11 58 33.0–.63 27.45N 143.28E 10 4.3b,3.8
JMA I 19 11 58 36.2–.10 27.51N 142.95E 88 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=5.1km az=44.6.
IDC Error ellipse: s-maj=27.1km s-min=18.7km az=84.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=10.3km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC I 19 15 22 36.0–.67 27.43N–.06 143.35E–.06 10 3.9b 38 1-83
ISCJB I 19 15 22 34.4–.54 27.51N–.04 143.39E–.06 10 3.9b **¶16009132**

IDC I 19 15 22 34.6–.74 27.33N 143.37E 0 3.9,3.8
NEIC I 19 15 22 36.0–.41 27.36N 143.41E 10 4.3b,3.8
JMA I 19 15 22 38.5–.20 27.56N 143.26E 42 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=33.5.
IDC Error ellipse: s-maj=17.7km s-min=15.4km az=118.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.1km az=80.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 19 15 31 48.3–.90 27.49N–.08 143.26E–.09 10 3.6b 22 1-83
ISCJB I 19 15 31 46.8–.78 27.58N–.06 143.34E–.08 10 3.6b **¶17190567**
IDC I 19 15 31 46.4–1.0 27.37N 143.37E 0 3.9,3.7
JMA I 19 15 31 51.4–.20 27.48N 143.11E 81 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=5.3km az=35.8.
IDC Error ellipse: s-maj=25.4km s-min=16.6km az=150.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 19 16 15 42.5–.87 27.30N–.07 143.41E–.08 10 3.9b 31 1-149
IDC I 19 16 15 40.8–.89 27.16N 143.41E 0 4.0,4.0L **¶16009134**
ISCJB I 19 16 15 41.1–.76 27.46N–.05 143.41E–.07 10 3.9b,4.0L
NEIC I 19 16 15 42.2–.47 27.22N 143.45E 10 4.3b,4.0L
JMA I 19 16 15 44.4 27.38N 143.31E 74 4.3,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=19.1km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=4.5km az=32.3.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.1km az=83.0.
IDC I 20 01 04 42.2–1.4 26.55N 144.34E 0 3.5,3.3
¶17190588
IDC Error ellipse: s-maj=44.2km s-min=29.6km az=86.0.
ISC I 20 01 27 47.6–.80 26.6N–.10 144.11E–.09 10 4.2b 28 2-148
ISCJB I 20 01 27 45.8–.68 26.6N–.10 144.14E–.07 10 4.1b,3.0s **¶16020101**
IDC I 20 01 27 45.9–.83 26.58N 144.19E 0 4.2,4.0
NEIC I 20 01 27 47.5–.58 26.61N 144.16E 10 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=8.1km az=11.5.
IDC Error ellipse: s-maj=23.7km s-min=19.7km az=26.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=11.7km az=27.0.
IDC I 20 01 29 16.9–2.9 26.41N 143.92E 0 3.8,3.6
¶17190591
IDC Error ellipse: s-maj=86.1km s-min=27.6km az=64.0.
IDC I 20 01 30 42.0–2.5 26.59N 144.02E 0 3.9,3.7
¶17190592
IDC Error ellipse: s-maj=66.9km s-min=26.9km az=68.0.
IDC I 20 01 34 45.9–2.6 26.67N 144.20E 0 3.7,3.5
¶17190593
IDC Error ellipse: s-maj=70.3km s-min=28.5km az=65.0.
IDC I 20 01 50 05.3–12 26.50N 144.21E 0 3.6,3.4b
¶17190594
IDC Error ellipse: s-maj=468.9km s-min=30.0km az=72.0.
IDC I 20 02 59 23.7–7.1 26.94N 144.01E 0 3.6,3.5L
¶17190597
IDC Error ellipse: s-maj=266.7km s-min=27.9km az=75.0.
IDC I 20 03 16 30.9–2.4 26.58N 144.45E 0 3.4,3.4
¶17190599
IDC Error ellipse: s-maj=70.0km s-min=28.0km az=68.0.
ISC I 20 04 57 53.8–.72 26.8N–.10 144.14E–.07 10 4.0b,3.5s 38 2-148
IDC I 20 04 57 52.0–.65 26.77N 144.22E 0 4.2,4.0 **¶16021065**
ISCJB I 20 04 57 52.1–.57 26.83N–.08 144.21E–.05 10 4.0b,3.4s
NEIC I 20 04 57 53.5–.46 26.78N 144.21E 10 4.3b,3.4s
JMA I 20 04 57 55.8–.50 27.36N 143.86E 0 4.6,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=16.8km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=6.8km az=172.1.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.8km az=38.0.
JMA Error ellipse: s-maj=5.6km s-min=4.0km az=-1.0.
IDC I 20 05 04 37.1–2.2 26.66N 144.07E 0 3.7,3.6
¶17190603
IDC Error ellipse: s-maj=51.9km s-min=26.6km az=52.0.
IDC I 20 05 29 42.6–2.2 26.53N 143.70E 0 3.9,3.8b
¶17190604
IDC Error ellipse: s-maj=58.9km s-min=24.7km az=53.0.
ISC I 20 06 07 48.4–.60 27.11N–.07 143.49E–.06 10 4.2b 43 1-150
IDC I 20 06 07 46.5–.65 26.97N 143.51E 0 4.1,4.0 **¶16019243**
NEIC I 20 06 07 48.1–.35 26.99N 143.52E 10 4.5b,4.0
JMA I 20 06 07 51.5 27.34N 143.33E 78 4.4,4.0
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=15.4km az=80.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.7km az=213.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 20 06 12 03.1–1.1 27.1N–.10 143.5E–.10 10 3.6b 10 1-78
ISCJB I 20 06 12 01.4–.90 27.1N–.10 143.54E–.10 10 3.6b **¶17190605**
IDC I 20 06 12 01.5–1.1 27.07N 143.64E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=12.3km az=6.4.
IDC Error ellipse: s-maj=32.4km s-min=19.5km az=76.0.
IDC I 20 06 14 56.9–1.3 26.78N 143.24E 0 4.0,3.6
¶17190606
IDC Error ellipse: s-maj=31.4km s-min=20.4km az=25.0.
ISC I 20 06 55 29.4–.77 26.9N–.10 143.90E–.07 10 4.2b 43 2-148
IDC I 20 06 55 27.5–.71 26.85N 144.01E 0 4.2,4.0 **¶16151906**
ISCJB I 20 06 55 28.1–.62 27.05N–.08 143.96E–.05 10 4.1b,3.3s
NEIC I 20 06 55 29.1–.41 26.87N 144.01E 10 4.1b,3.3s
JMA I 20 06 55 31.4–.50 27.29N 143.70E 0 4.6,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=17.6km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.6km az=164.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.0km az=55.0.
JMA Error ellipse: s-maj=7.8km s-min=4.0km az=-1.0.
ISC I 20 07 19 28.8–.61 27.69N–.05 143.29E–.08 10 4.2b 58 1-149
NEIC I 20 07 19 27.7–3.3 27.59N 143.37E 4–19 4.6b **¶16151907**
IDC I 20 07 19 27.2–.70 27.58N 143.33E 0 4.0,3.9
ISCJB I 20 07 19 28.1–.56 27.82N–.04 143.24E–.07 10 4.1b,3.9
JMA I 20 07 19 30.8 27.70N 143.20E 80–4 4.2,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.7km az=102.0.
IDC Error ellipse: s-maj=17.7km s-min=14.5km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=3.8km az=23.3.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
ISC I 20 08 42 12.9–1.0 27.2N–.10 143.51E–.09 10 3.6b 10 1-80
ISCJB I 20 08 42 11.1–.85 27.2N–.10 143.58E–.09 10 3.7b **¶17190609**
IDC I 20 08 42 11.3–1.0 27.15N 143.61E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=11.2km az=173.3.
IDC Error ellipse: s-maj=23.6km s-min=21.8km az=101.0.
ISC I 20 09 22 37.6–.64 27.27N–.06 143.46E–.06 10 4.1b 47 1-149
NIED I 20 09 22 00 27.40N 143.40E 5 3.9W **¶16151916**
IDC I 20 09 22 35.9–.66 27.12N 143.44E 0 4.2,4.0
NEIC I 20 09 22 37.3–.51 27.13N 143.49E 10 4.7b,4.0
JMA I 20 09 22 39.3 27.37N 143.43E 67 4.4,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ27.00000°,λ-10.00000°. NP2:ϕ_s127.00000°,δ85.00000°,λ-116.00000°. $M_0$9.16000×10^{14}
IDC Error ellipse: s-maj=17.2km s-min=15.6km az=74.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=9.9km az=62.0.
ISC I 20 09 25 37.5–.95 27.1N–.10 143.44E–.10 10 3.9b 22 1-95
IDC I 20 09 25 36.4–.91 26.94N 143.36E 0 4.1,3.9 **¶16151918**
JMA I 20 09 25 37.6–.10 27.39N 143.74E 68 3.8,3.9
NEIC I 20 09 25 38.0–.60 26.96N 143.31E 10 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=17.9km az=44.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.8km az=66.0.

ISC I 20 09 26 26.3–.71 27.14N–.10 143.53E–.06 10 3.9b 37 1-149
ISCJB I 20 09 26 24.5–.58 27.24N–.06 143.60E–.05 10 3.9b **¶16151921**
IDC I 20 09 26 24.5–.67 27.05N 143.49E 0 4.1,4.0
NEIC I 20 09 26 26.0–.45 27.07N 143.53E 10 4.4b,4.0
JMA I 20 09 26 27.6–.10 27.51N 143.40E 14–4 3.7,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.5km az=150.5.
IDC Error ellipse: s-maj=18.6km s-min=15.9km az=171.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.4km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 20 09 43 45.8–.64 26.86N–.08 144.11E–.07 10 4.3b 63 2-148
NIED I 20 09 43 00 27.10N 144.00E 11 4.2W **¶16151923**
IDC I 20 09 43 43.7–.76 26.69N 144.16E 0 4.3,4.2
NEIC I 20 09 43 45.2–.35 26.70N 144.13E 10 4.6b,4.2
ISCJB I 20 09 43 45.3–.46 27.02N–.06 144.09E–.04 10 4.3b,3.2s
JMA I 20 09 43 47.2–.30 27.07N 143.99E 15 4.5,3.2s
MOS I 20 09 43 47.8–1.0 26.83N 144.16E 36 4.4b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ26.00000°,λ-51.00000°. NP2:ϕ_s132.00000°,δ70.00000°,λ-107.00000°. $M_0$2.21000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=15.7km az=11.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.3km az=193.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.2km az=171.1.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=18.7km s-min=9.5km az=110.1.
ISC I 20 10 34 37.9–.79 26.7N–.10 144.04E–.09 10 3.7b 18 2-148
ISCJB I 20 10 34 36.6–.63 26.7N–.10 144.08E–.08 10 3.7b,3.2s **¶17190615**
IDC I 20 10 34 36.7–.74 26.66N 144.10E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=9.5km az=13.6.
IDC Error ellipse: s-maj=20.3km s-min=19.0km az=44.0.
ISC I 20 10 52 02.5–.58 26.91N–.08 144.09E–.07 35 4.2b 49 2-148
IDC I 20 10 51 57.0–.61 26.79N 144.24E 0 4.3,4.2 **¶16151929**
NEIC I 20 10 51 58.6–.31 26.81N 144.18E 10 4.6b,4.2
NIED I 20 10 52 00 27.20N 144.00E 8 4.2W,4.2
JMA I 20 10 52 00.6–.10 27.16N 143.97E 18 4.0,4.2
ISCJB I 20 10 52 01.3–.47 26.99N–.07 144.08E–.04 33 4.3b,4.2
ISC Event type se.
NEIC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ26.00000°,λ-91.00000°. NP2:ϕ_s127.00000°,δ64.00000°,λ-89.00000°. $M_0$2.10000×10^{15}
ISCJB Event type se.
ISC I 20 10 57 29.9–.62 27.23N–.07 143.52E–.06 10 4.0b,3.2s 41 1-149
NIED I 20 10 57 00 27.40N 143.60E 5 4.3W,3.2s **¶16151930**
IDC I 20 10 57 28.2–.60 27.12N 143.46E 0 4.1,4.0
JMA I 20 10 57 29.6–.20 27.36N 143.62E 26 4.6,4.0
NEIC I 20 10 57 29.9–.39 27.13N 143.51E 10 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ19.00000°,λ-82.00000°. NP2:ϕ_s141.00000°,δ71.00000°,λ-93.00000°. $M_0$3.17000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=15.6km az=28.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.4km az=65.0.
ISC I 20 11 00 35.2–.92 26.7N–.10 144.11E–.10 10 3.7b 13 2-148
ISCJB I 20 11 00 33.7–.78 26.7N–.10 144.17E–.09 10 3.6b **¶17190616**
IDC I 20 11 00 34.0–.83 26.75N 144.18E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=10.9km az=17.7.
IDC Error ellipse: s-maj=24.2km s-min=20.0km az=61.0.
ISC I 20 11 07 06.2–1.0 26.6N–.20 144.0E–.10 10 3.7b 8 2-148
ISCJB I 20 11 07 04.3–.96 26.6N–.10 144.1E–.10 10 3.7b **¶17190617**
IDC I 20 11 07 04.6–.98 26.64N 144.01E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=13.0km az=27.3.
IDC Error ellipse: s-maj=37.5km s-min=22.4km az=82.0.
ISC I 20 11 12 15.8–1.0 27.25N–.09 143.56E–.08 10 3.6b 15 1-71
ISCJB I 20 11 12 13.6–.88 27.30N–.09 143.66E–.07 10 3.8b **¶17190618**
IDC I 20 11 12 13.8–.98 27.13N 143.71E 0 4.0,3.9L
JMA I 20 11 12 17.0–.30 27.53N 143.36E 0 3.2,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=6.9km az=149.3.
IDC Error ellipse: s-maj=26.7km s-min=19.5km az=99.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC I 20 12 42 44.1–1.1 27.2N–.10 143.54E–.09 10 3.8b 9 1-79
ISCJB I 20 12 42 42.5–.95 27.3N–.10 143.58E–.09 10 3.7b **¶17190621**
IDC I 20 12 42 42.5–1.1 27.18N 143.62E 0 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=10.5km az=159.6.
IDC Error ellipse: s-maj=27.9km s-min=22.0km az=150.0.
IDC I 20 14 42 22.9–17 26.91N 144.73E 0 3.6,3.4
¶17190627
IDC Error ellipse: s-maj=645.0km s-min=31.3km az=73.0.
IDC I 20 15 54 03.9–12 26.12N 142.23E 0 3.7,3.5
¶17190632
IDC Error ellipse: s-maj=481.2km s-min=24.3km az=71.0.
ISC I 20 18 43 21.1–1.6 27.2N–.10 143.7E–.10 10 8 1-51
ISCJB I 20 18 43 18.5–1.2 27.23N–.10 143.80E–.08 10 3.7b **¶600520554**
JMA I 20 18 43 22.4–.10 27.24N 143.75E 46 3.3
IDC I 20 18 43 24.8–1.7 26.83N 141.15E 0 3.9,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=10.6km az=167.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=38.3km s-min=19.1km az=142.0.
IDC I 20 20 40 16.4–1.9 26.63N 144.03E 0 3.7,3.6
¶17190644
IDC Error ellipse: s-maj=47.1km s-min=25.1km az=56.0.
ISC I 20 22 24 14.1–.65 27.12N–.08 143.67E–.06 10 4.0b 33 1-95
ISCJB I 20 22 24 12.5–.53 27.18N–.06 143.73E–.05 10 3.9b **¶16151978**
IDC I 20 22 24 12.4–1.1 27.08N 143.77E 0 3.9,3.8L
JMA I 20 22 24 14.9–.10 27.23N 143.72E 60 3.9,3.8L
NEIC I 20 22 24 14.1–.37 27.11N 143.72E 10 4.3b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=158.0.
IDC Error ellipse: s-maj=26.7km s-min=22.0km az=170.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=7.1km az=69.0.
ISC I 21 00 30 09.3–.79 26.7N–.10 144.04E–.08 10 3.6b 14 2-83
ISCJB I 21 00 30 07.6–.67 26.7N–.10 144.16E–.08 10 3.8b **¶17190650**
IDC I 21 00 30 07.9–.86 26.70N 144.09E 0 4.0,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=10.0km az=10.6.
IDC Error ellipse: s-maj=21.4km s-min=18.5km az=15.0.
ISC I 21 04 23 21.4–1.2 27.1N–.10 143.4E–.10 10 3.6b 8 1-78
ISCJB I 21 04 23 19.7–1.1 27.2N–.10 143.50E–.10 10 3.6b **¶17190658**
IDC I 21 04 23 20.2–1.2 27.08N 143.44E 0 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=11.4km az=161.0.
IDC Error ellipse: s-maj=27.0km s-min=23.4km az=136.0.
IDC I 21 04 24 57.5–1.4 27.03N 143.57E 0 3.6,3.4
¶17190659
IDC Error ellipse: s-maj=34.0km s-min=30.2km az=121.0.
ISC I 21 04 55 55.5–.65 27.07N–.08 143.47E–.06 10 4.0b 40 1-149
NIED I 21 04 55 00 27.10N 143.50E 8 4.1W **¶16032943**
IDC I 21 04 55 53.7–.68 27.02N 143.52E 0 4.1,3.9
ISCJB I 21 04 55 54.6–.48 27.22N–.06 143.50E–.05 10 4.0b,3.0s
NEIC I 21 04 55 55.2–4.1 27.04N 143.51E 8–25 4.4b,3.0s
JMA I 21 04 55 57.0 27.10N 143.54E 54 4.2,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ24.00000°,λ-38.00000°. NP2:ϕ_s117.00000°,δ76.00000°,λ-109.00000°. $M_0$1.47000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=16.6km az=11.0.

ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.3km az=157.6.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.3km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC I 21 05 05 42.2–6.0 27.55N 143.07E 0 3.8L,3.7
¶17190660

IDC Error ellipse: s-maj=229.1km s-min=29.6km az=75.0.
ISC I 21 06 32 22.8–.70 27.24N–.04 143.47E–.03 10–4 5.3b,4.4s 1049 1-164
NIED I 21 06 32 00 27.40N 143.50E 8 5.1W,4.4s **¶15948008**
IDC I 21 06 32 20.4–.36 27.12N 143.56E 0 5.0,4.9
ISCJB I 21 06 32 21.6–.10 27.26N–.02 143.47E–.02 10 5.2b,4.4s
BJI I 21 06 32 22.6 27.23N 143.09E 7 5.1b,4.8b
NEIC I 21 06 32 22.8–.10 27.16N 143.48E 10 5.4b,4.8b
JMA I 21 06 32 22.8–.10 27.36N 143.54E 34 4.9,4.8b
GCMT I 21 06 32 22.8–.20 27.23N 143.52E 12 5.1W,4.8b
MOS I 21 06 32 23.8–1.0 27.18N 143.48E 28 5.4b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ24.00000°,λ-116.00000°. NP2:ϕ_s159.00000°,δ68.00000°,λ-79.00000°. M_o4.32000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=9.8km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=1.9km az=168.2.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c50; s111,c170; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.10±.09 $M_{\theta\theta}$1.72±.09; $M_{\phi\phi}$3.38±.09; $M_{r\theta}$-0.44±.36; $M_{\theta\phi}$-2.05±.07; $M_{\phi r}$1.63±.32; Best double couple: NP1:ϕ_s152.00000°,δ54.00000°,λ-84.00000°. NP2:ϕ_s321.00000°,δ36.00000°,λ-99.00000°. Principal axes: T 5.0150,Plg9.0000°,Azm237.0000°; N 0.3880,Plg5.0000°,Azm328.0000°; P -5.4030,Plg80.0000°,Azm87.0000° M_o5.20900×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=105.4.
ISC I 21 07 00 48.3–.37 27.22N–.05 143.42E–.04 10 4.8b,3.9s 305 1-149
NIED I 21 07 00 00 27.20N 143.20E 5 4.6W,3.9s **¶15948009**
IDC I 21 07 00 46.0–.46 27.11N 143.49E 0 4.7,4.6
ISCJB I 21 07 00 47.7–.20 27.35N–.03 143.32E–.03 10 4.8b,3.9s
NEIC I 21 07 00 48.4–.17 27.13N 143.42E 10 4.9b,3.9s
MOS I 21 07 00 49.8–.95 27.07N 143.33E 33 5.0b,3.9s
BJI I 21 07 00 49.7 27.03N 143.25E 32 5.1b,4.8b
JMA I 21 07 00 50.8–.10 27.24N 143.22E 89 4.5,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ20.00000°,λ-141.00000°. NP2:ϕ_s191.00000°,δ78.00000°,λ-74.00000°. M_o7.72000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.4km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=146.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.7km az=163.0.
MOS Error ellipse: s-maj=10.7km s-min=6.0km az=119.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 21 07 08 53.9–.82 27.2N–.10 143.42E–.08 10 4.2b 24 1-150
ISCJB I 21 07 08 52.0–.60 27.17N–.09 143.46E–.07 10 4.5s,4.1b **¶16022170**
IDC I 21 07 08 52.1–.88 27.12N 143.49E 0 4.5,4.5s
NEIC I 21 07 08 53.8–.41 27.13N 143.45E 10 4.2b,4.5s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.1km az=167.4.
IDC Error ellipse: s-maj=22.5km s-min=18.5km az=87.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.5km az=78.0.
ISC I 21 08 12 31.1–.46 27.20N–.06 143.50E–.04 10 5.0b,4.0s 153 1-150
IDC I 21 08 12 28.8–.80 27.12N 143.47E 0 4.5,4.2 **¶16021066**
BJI I 21 08 12 29.2 27.10N 143.50E 10 5.0b,4.7b
NEIC I 21 08 12 31.0–.23 27.13N 143.47E 10 5.2b,4.7b
ISCJB I 21 08 12 30.7–.25 27.43N–.04 143.44E–.03 10 4.9b,3.9s
JMA I 21 08 12 31.3–.10 27.29N 143.57E 56 4.4,3.9s
MOS I 21 08 12 33.0–1.3 27.20N 143.40E 33 5.0b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=14.8km az=165.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.7km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.5km az=158.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=15.1km s-min=8.9km az=96.2.
ISC I 21 09 05 27.6–.70 27.30N–.07 143.51E–.07 10 4.0b 41 1-149
IDC I 21 09 05 25.6–.70 27.14N 143.61E 0 4.2,4.0 **¶16152003**
NEIC I 21 09 05 27.1–.45 27.18N 143.60E 10 4.8b,4.0
JMA I 21 09 05 29.3–.10 27.36N 143.36E 81 4.2,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=17.6km az=83.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.6km az=221.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 21 09 22 34.3–1.3 27.44N–.09 143.3E–.10 10 3.8b 13 1-95
ISCJB I 21 09 22 31.8–.97 27.4N–.10 143.49E–.09 10 3.8s,3.8b **¶17190669**
IDC I 21 09 22 32.5–1.6 27.32N 143.38E 0 3.7,3.6b
JMA I 21 09 22 35.8–.20 27.44N 143.34E 52 3.0,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=8.6km az=149.9.
IDC Error ellipse: s-maj=41.0km s-min=21.6km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 21 09 28 08.3–.95 27.32N–.08 143.38E–.08 10 4.1b 26 1-78
ISCJB I 21 09 28 06.2–.62 27.41N–.05 143.45E–.06 10 4.1b **¶16152005**
IDC I 21 09 28 06.5–1.4 27.33N 143.43E 0 4.0,3.9
NEIC I 21 09 28 08.4–.60 27.36N 143.38E 10 4.3b,3.9
JMA I 21 09 28 09.8–.40 27.27N 143.28E 0 3.4,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.5km az=38.7.
IDC Error ellipse: s-maj=36.1km s-min=19.5km az=81.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.9km az=89.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 21 09 35 20.5–.92 26.9N–.10 144.08E–.07 10 4.0b 21 2-148
ISCJB I 21 09 35 18.7–.74 26.93N–.09 144.17E–.06 10 3.9b **¶16152006**
IDC I 21 09 35 18.8–.97 26.78N 144.20E 0 4.1,3.9
NEIC I 21 09 35 20.4–.62 26.81N 144.10E 10 4.3b,3.9
JMA I 21 09 35 24.2–.30 27.33N 143.88E 14 3.7,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=7.7km az=173.2.
IDC Error ellipse: s-maj=27.7km s-min=22.3km az=30.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=12.8km az=59.0.
JMA Error ellipse: s-maj=5.6km s-min=3.0km az=-1.0.
ISC I 21 17 37 06.2–.38 27.35N–.05 143.36E–.05 10 4.6b,4.1s 217 1-149
IDC I 21 17 37 04.5–.44 27.28N 143.41E 0 4.4,4.4 **¶15968941**
BJI I 21 17 37 04.3 27.00N 143.44E 19 5.0b,4.6s
NEIC I 21 17 37 05.8–.23 27.25N 143.40E 10 4.7b,4.6s
ISCJB I 21 17 37 05.3–.24 27.51N–.02 143.34E–.03 10 4.6b,4.1s
MOS I 21 17 37 06.3–1.1 27.29N 143.39E 24 4.6b,4.1s
JMA I 21 17 37 07.4–.10 27.40N 143.40E 62 4.3,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=11.0km az=103.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=35.8.
MOS Error ellipse: s-maj=10.6km s-min=5.7km az=112.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 21 19 52 58.5–1.2 26.5N–.10 141.5E–.10 10 3.7b 7 1-53
ISCJB I 21 19 52 57.1–.89 26.5N–.10 141.4E–.10 10 3.6b,3.2s **¶17190695**
IDC I 21 19 52 57.1–1.1 26.51N 141.61E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=10.6km az=136.1.
IDC Error ellipse: s-maj=28.0km s-min=16.3km az=123.0.
IDC I 22 06 33 54.0–2.5 27.16N 143.58E 0 3.9,3.7L
¶17190721

IDC Error ellipse: s-maj=43.7km s-min=24.7km az=34.0.
ISC I 22 08 48 08.2–.61 27.27N–.10 143.39E–.07 10 4.2b 44 1-149
ISCJB I 22 08 48 06.4–.43 27.27N–.06 143.42E–.05 10 4.1b **¶16022171**
IDC I 22 08 48 06.5–.59 27.26N 143.42E 0 4.2,4.1
NEIC I 22 08 48 08.1–.39 27.27N 143.40E 10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.3km az=160.4.
IDC Error ellipse: s-maj=15.8km s-min=14.7km az=97.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=9.0km az=77.0.
ISC I 22 09 04 25.8–.57 27.30N–.07 143.39E–.06 10 4.2b 45 1-149
ISCJB I 22 09 04 24.1–.46 27.37N–.05 143.46E–.05 10 4.2b **¶16152078**
IDC I 22 09 04 24.3–.56 27.28N 143.39E 0 4.2,4.1
NEIC I 22 09 04 25.9–.35 27.31N 143.40E 10 4.7b,4.1
JMA I 22 09 04 26.7–.20 27.27N 143.43E 67 3.9,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=140.8.
IDC Error ellipse: s-maj=15.4km s-min=14.2km az=112.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.6km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 22 09 12 11.8–.52 27.39N–.06 143.33E–.06 10 4.3b 64 1-149
IDC I 22 09 12 10.1–.52 27.29N 143.37E 0 4.2,4.1 **¶16152080**
ISCJB I 22 09 12 11.4–.45 27.58N–.03 143.25E–.05 10 4.2b,4.1
NEIC I 22 09 12 11.5–.26 27.31N 143.39E 10 4.5b,4.1
JMA I 22 09 12 12.5–.10 27.43N 143.40E 35 4.3,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.2km s-min=13.7km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.9km az=31.6.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.8km az=81.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 22 10 17 15.6–.98 27.20N–.08 143.53E–.07 10 3.6b 22 1-149
IDC I 22 10 17 14.2–1.6 27.10N 143.61E 0 3.8,3.7 **¶17190736**
ISCJB I 22 10 17 15.2–.85 27.39N–.06 143.53E–.07 10 3.7b,3.7
JMA I 22 10 17 15.0–.60 27.18N 143.67E 26 3.7b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=20.2km az=1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.4km az=40.2.
JMA Error ellipse: s-maj=5.6km s-min=4.0km az=-1.0.
ISC I 22 10 41 42.4–.55 27.41N–.06 143.27E–.07 10 4.4b 87 1-149
IDC I 22 10 41 40.5–.56 27.30N 143.27E 0 4.2,4.1 **¶16002302**
BJI I 22 10 41 40.6 27.26N 142.99E 6 4.8b,4.6s
NEIC I 22 10 41 42.1–.29 27.31N 143.28E 10 4.6b,4.6s
JMA I 22 10 41 42.7–.30 27.47N 143.39E 41 4.3,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.8km az=99.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.7km az=78.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 22 11 22 39.6–.48 27.19N–.06 143.49E–.05 10 4.6b,3.8s 121 1-149
IDC I 22 11 22 37.7–.53 27.10N 143.56E 0 4.5,4.3 **¶16002303**
ISCJB I 22 11 22 38.8–.30 27.36N–.03 143.47E–.03 10 4.6b,3.7s
NEIC I 22 11 22 39.4–.21 27.12N 143.49E 10 4.8b,3.7s
BJI I 22 11 22 40.4 27.01N 142.89E 8 4.9b,4.6s
JMA I 22 11 22 41.4–.20 27.29N 143.33E 87 4.0,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=13.2km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.6km az=147.3.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.9km az=158.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 22 11 39 04.1–2.7 27.15N 143.60E 0 3.7,3.5b
¶17190740

IDC Error ellipse: s-maj=55.0km s-min=29.0km az=51.0.
IDC I 22 11 45 28.9–6.8 27.14N 143.68E 0 3.7,3.5
¶17190741

IDC Error ellipse: s-maj=307.0km s-min=36.4km az=78.0.
ISC I 22 11 54 20.3–1.0 27.38N–.10 143.3E–.10 10 3.5b 18 1-80
ISCJB I 22 11 54 18.3–.84 27.54N–.06 143.43E–.08 10 3.5b **¶17190742**
JMA I 22 11 54 19.5 27.41N 143.53E 67 3.9
IDC I 22 11 54 19.2–.91 27.24N 143.37E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=6.2km az=34.2.
IDC Error ellipse: s-maj=22.5km s-min=20.2km az=101.0.
ISC I 22 12 06 39.6–1.2 27.3N–.10 143.3E–.10 10 3.5b 11 1-78
ISCJB I 22 12 06 37.4–.90 27.32N–.10 143.42E–.10 10 3.6b **¶17190743**
IDC I 22 12 06 38.1–1.1 27.28N 143.29E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=11.5km az=149.5.
IDC Error ellipse: s-maj=21.5km s-min=18.8km az=118.0.
ISC I 22 16 06 11.9–.91 27.26N–.10 143.46E–.07 10 3.6b 17 1-83
ISCJB I 22 16 06 10.3–.77 27.40N–.07 143.50E–.07 10 3.6b **¶17190753**
IDC I 22 16 06 10.4–.85 27.21N 143.51E 0 3.9,3.8L
JMA I 22 16 06 13.0–.10 27.40N 143.48E 50 3.1,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.9km az=139.4.
IDC Error ellipse: s-maj=24.1km s-min=18.7km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 22 18 51 27.7–.53 26.66N–.07 144.05E–.05 10 4.5b,3.5s 134 2-148
NIED I 22 18 51 00 27.00N 143.90E 5 4.2W,3.5s **¶15959229**
IDC I 22 18 51 25.7–.60 26.63N 144.14E 0 4.3,4.2
BJI I 22 18 51 25.6 26.27N 144.12E 20 4.9b,4.6s
ISCJB I 22 18 51 26.1–.36 26.68N–.05 144.10E–.04 10 4.4b,3.5s
NEIC I 22 18 51 27.4–.32 26.63N 144.12E 10 4.6b,3.5s
MOS I 22 18 51 28.4–1.0 26.63N 144.07E 27 4.6b,3.5s
JMA I 22 18 51 30.3–.30 27.04N 143.95E 13 3.9,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ39.00000°,λ-82.00000°. NP2:ϕ_s128.00000°,δ52.00000°,λ-96.00000°. M_o2.48000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=14.0km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.6km az=179.8.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.5km az=68.0.
MOS Error ellipse: s-maj=13.2km s-min=6.5km az=115.7.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 22 18 55 48.9–.44 27.32N–.05 143.39E–.05 10 4.5b,3.8s 169 1-149
IDC I 22 18 55 46.7–.53 27.22N 143.49E 0 4.3,4.3 **¶15959230**
MOS I 22 18 55 48.9–1.1 27.25N 143.40E 25 4.5b,4.3
NEIC I 22 18 55 48.8–.26 27.25N 143.40E 10 4.6b,4.3
BJI I 22 18 55 48.5 27.30N 143.40E 10 4.9b,4.6s
JMA I 22 18 55 51.0–.10 27.40N 143.32E 68 4.4,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=13.8km az=121.0.
MOS Error ellipse: s-maj=12.5km s-min=6.5km az=108.3.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.6km az=157.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 22 21 33 09.6–.94 26.71N–.10 144.15E–.08 10 3.8b 17 2-148
IDC I 22 21 33 07.9–.91 26.59N 144.19E 0 3.9,3.7 **¶17190767**
JMA I 22 21 33 09.9 27.02N 144.09E 3 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=20.5km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 22 21 50 32.5–1.0 26.8N–.10 144.10E–.07 10 3.6b 15 2-79
ISCJB I 22 21 50 31.3–.89 26.95N–.09 144.17E–.06 10 3.6b **¶17190768**
IDC I 22 21 50 31.3–.91 26.73N 144.17E 0 3.8,3.6
JMA I 22 21 50 33.4–.10 27.06N 144.12E 22 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.6km az=163.1.
IDC Error ellipse: s-maj=25.7km s-min=21.0km az=80.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 22 23 34 31.7–.99 27.48N–.07 143.3E–.10 35 3.5b 21 1-78
IDC I 22 23 34 26.2–.99 27.23N 143.53E 0 3.8,3.6L **¶17190770**
ISCJB I 22 23 34 29.1–.80 27.45N–.06 143.48E–.08 33 3.6b,3.6L
JMA I 22 23 34 29.6 27.37N 143.33E 88 3.0,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=20.4km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.4km az=31.6.
IDC I 23 07 06 58.2–2.1 27.14N 143.64E 0 3.7L,3.6
¶17190782

IDC Error ellipse: s-maj=36.4km s-min=28.1km az=45.0.
ISC I 23 07 08 19.0–.49 27.21N–.06 143.63E–.05 10 4.3b 97 1-149
NIED I 23 07 08 00 27.10N 144.00E 8 4.0W **¶16002304**
BJI I 23 07 08 14.6 27.11N 143.82E 5 4.9b,4.6b

JMA I 23 07 08 15.7–.30 27.13N 144.02E 72 4.3,4.6b
IDC I 23 07 08 16.5–.62 27.13N 143.73E 0 4.2,4.1
ISCJB I 23 07 08 17.9–.40 27.36N–.04 143.62E–.04 10 4.3b,4.1s
NEIC I 23 07 08 18.6–.37 27.16N 143.62E 10 4.7b,4.1s
MOS I 23 07 08 18.6–.77 27.14N 143.70E 24 4.3b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S29.00000°,δ50.00000°,λ7.00000°. NP2: ϕ_S294.00000°,δ85.00000°,λ140.00000°. $M_0$1.20000×10^{15}
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=15.0km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=139.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.8km az=57.0.
MOS Error ellipse: s-maj=15.9km s-min=7.1km az=114.6.
ISC I 23 10 58 03.1–.38 26.82N–.04 144.04E–.04 10 4.9b,4.3s 209 2-149
ISCJB I 23 10 58 01.2–.26 26.84N–.03 144.11E–.04 10 4.7b,4.3s **¶16135592**
IDC I 23 10 58 01.2–.41 26.74N 144.06E 0 4.5,4.4
NEIC I 23 10 58 02.9–.28 26.71N 144.00E 10 4.9b,4.4
JMA I 23 10 58 02.0–.10 27.14N 144.08E 7 5.1,4.4
MOS I 23 10 58 02.3–.86 26.69N 144.13E 22 4.9b,4.1s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.1km az=13.2.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=77.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.9km az=203.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=12.9km s-min=5.9km az=117.0.
ISC I 23 10 58 26.1–.43 26.86N–.07 144.10E–.07 10 5.0b 259 2-150
BJI I 23 10 58 19.1 27.30N 141.50E 10 4.9b,4.7b **¶17190792**
IDC I 23 10 58 24.3–.47 26.80N 144.13E 0 4.6,4.6
ISCJB I 23 10 58 24.8–.24 26.85N–.05 144.08E–.03 10 4.8b,4.6
GCMT I 23 10 58 26.2–.30 26.90N 144.07E 20–0 5.0W,4.6
NEIC I 23 10 58 26.2–.19 26.82N 144.10E 10 5.1b,4.6
MOS I 23 10 58 26.3–.89 26.86N 144.06E 21 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.0km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.1km az=179.8.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c19; s91,c137; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.86±.21 $M_{\theta\theta}$1.22±.11; $M_{\phi\phi}$2.63±.13; $M_{r\theta}$-0.26±.22; $M_{\theta\phi}$-1.11±.06; $M_{\phi r}$0.43±.20; Best double couple: NP1:ϕ_S151.00000°,δ49.00000°,λ-90.00000°. NP2:ϕ_S331.00000°,δ41.00000°,λ-90.00000°. Principal axes: T 3.2760,Plg4.0000°,Azm241.0000°; N 0.6100,Plg0.0000°,Azm151.0000°; P -3.8960,Plg86.0000°,Azm57.0000° $M_0$3.58600×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.0km az=174.0.
MOS Error ellipse: s-maj=10.2km s-min=6.6km az=107.8.
ISC I 23 11 12 33.1–1.4 26.6N–.20 143.8E–.10 10 3.5b 7 1-72
IDC I 23 11 12 31.8–1.9 26.57N 143.81E 0 3.6,3.4 **¶17190794**
ISC Event type ke.
IDC Error ellipse: s-maj=49.0km s-min=19.8km az=60.0.
IDC I 23 11 20 46.8–1.9 26.65N 144.00E 0 3.6,3.5
¶17190795
IDC Error ellipse: s-maj=47.3km s-min=26.5km az=54.0.
ISC I 23 11 25 31.9–1.1 26.7N–.20 144.1E–.10 10 3.9b 10 2-72
ISCJB I 23 11 25 29.8–.90 26.6N–.10 144.1E–.10 10 3.7b **¶17190796**
IDC I 23 11 25 30.1–1.1 26.68N 144.17E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=11.9km az=26.6.
IDC Error ellipse: s-maj=31.6km s-min=21.1km az=71.0.
IDC I 23 11 28 24.9–2.0 26.66N 143.94E 0 3.7s,3.6
¶17190797
IDC Error ellipse: s-maj=50.0km s-min=21.5km az=56.0.
ISC I 23 11 31 20.4–1.2 26.4N–.20 143.1E–.20 10 3.6b 7 1-72
ISCJB I 23 11 31 18.2–1.1 26.4N–.20 143.3E–.20 10 3.5b,3.4s **¶17190798**
IDC I 23 11 31 18.9–1.3 26.44N 143.15E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.2km s-min=13.1km az=41.1.
IDC Error ellipse: s-maj=35.8km s-min=21.3km az=48.0.
ISC I 23 11 48 49.3–.84 26.8N–.10 144.04E–.07 10 4.2b 32 2-149
NIED I 23 11 48 00 27.10N 144.00E 5 3.9W **¶16022175**
IDC I 23 11 48 47.5–.94 26.70N 144.11E 0 4.2,3.9
NEIC I 23 11 48 49.2–.52 26.76N 144.07E 10 4.4b,3.9
JMA I 23 11 48 49.9–.20 27.11N 144.02E 11 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S308.00000°,δ44.00000°,λ-86.00000°. NP2:ϕ_S123.00000°,δ46.00000°,λ-94.00000°. $M_0$9.15000×10^{14}
IDC Error ellipse: s-maj=24.5km s-min=20.1km az=9.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=10.0km az=213.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 23 12 05 59.6–1.2 27.17N 143.48E 0 3.6,3.4
¶17190800
IDC Error ellipse: s-maj=30.7km s-min=25.9km az=108.0.
ISC I 23 12 11 28.2–1.1 26.8N–.10 144.01E–.10 10 3.8b 15 2-72
ISCJB I 23 12 11 26.1–.82 26.84N–.10 144.12E–.07 10 3.6b,3.6s **¶17190801**
IDC I 23 12 11 26.3–1.1 26.75N 144.16E 0 3.7,3.6
JMA I 23 12 11 28.7–.10 27.05N 144.02E 15 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=9.3km az=3.8.
IDC Error ellipse: s-maj=31.7km s-min=19.6km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 23 12 24 06.5–1.4 27.52N 143.52E 0 3.6,3.4b
¶17190802
IDC Error ellipse: s-maj=39.2km s-min=25.0km az=128.0.
ISC I 23 12 45 33.3–.97 26.7N–.10 144.1E–.10 10 3.7b,3.6s 12 2-79
ISCJB I 23 12 45 31.6–.75 26.6N–.10 144.06E–.10 10 3.7s,3.7b **¶17190805**
IDC I 23 12 45 31.6–.87 26.67N 144.19E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=10.6km az=29.8.
IDC Error ellipse: s-maj=24.5km s-min=18.3km az=78.0.
ISC I 23 12 46 37.9–.34 26.86N–.04 144.13E–.05 10 5.0b,4.2s 488 2-150
NIED I 23 12 46 00 27.00N 144.20E 8 4.9W,4.2s **¶15959248**
IDC I 23 12 46 36.0–.46 26.77N 144.15E 0 4.7,4.7
ISCJB I 23 12 46 36.8–.14 26.91N–.03 144.08E–.02 10 4.9b,4.2s
JMA I 23 12 46 36.8–.10 26.98N 144.19E 22 4.9,4.2s
GCMT I 23 12 46 37.9–.20 26.90N 144.09E 12 5.0W,4.2s
NEIC I 23 12 46 37.9–.19 26.81N 144.14E 10 5.0b,4.2s
BJI I 23 12 46 38.0 26.87N 143.80E 10 5.1b,4.8b
MOS I 23 12 46 39.6–1.0 26.76N 144.09E 34 5.0b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S19.00000°,δ47.00000°,λ-38.00000°. NP2:ϕ_S138.00000°,δ63.00000°,λ-130.00000°. $M_0$2.72000×10^{16}
IDC Error ellipse: s-maj=14.5km s-min=11.7km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=169.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c56; s102,c172; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.61±.07 $M_{\theta\theta}$1.24±.06; $M_{\phi\phi}$2.36±.07; $M_{r\theta}$1.16±.23; $M_{\theta\phi}$-1.57±.05; $M_{\phi r}$-0.48±.23; Best double couple: NP1:ϕ_S315.00000°,δ54.00000°,λ-101.00000°. NP2:ϕ_S154.00000°,δ37.00000°,λ-75.00000°. Principal axes: T 3.6240,Plg8.0000°,Azm53.0000°; N 0.2410,Plg9.0000°,Azm322.0000°; P -3.8760,Plg78.0000°,Azm185.0000° $M_0$3.75000×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.2km az=164.0.
MOS Error ellipse: s-maj=9.3km s-min=5.2km az=113.2.
ISC I 23 12 52 30.0–.80 26.7N–.10 144.05E–.08 10 4.0b 23 2-148
IDC I 23 12 52 27.8–.80 26.67N 144.15E 0 4.0,3.8 **¶16024666**
ISCJB I 23 12 52 28.0–.56 26.70N–.08 144.05E–.07 10 4.0b,3.8
NEIC I 23 12 52 29.5–.58 26.74N 144.22E 10 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=19.0km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=7.7km az=21.5.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=11.1km az=68.0.
ISC I 23 12 56 07.4–1.1 26.8N–.20 144.1E–.10 10 3.8b 8 2-79
ISCJB I 23 12 56 05.8–1.0 26.8N–.20 144.13E–.09 10 3.6b **¶17190806**
IDC I 23 12 56 05.8–1.1 26.80N 144.21E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=11.9km az=4.3.
IDC Error ellipse: s-maj=27.6km s-min=25.4km az=22.0.
IDC I 23 13 01 58.4–2.6 26.83N 143.70E 0 3.8L,3.7
¶17190807
IDC Error ellipse: s-maj=53.0km s-min=23.1km az=45.0.
ISC I 23 13 04 56.6–.90 26.86N–.10 144.02E–.07 10 3.6b 17 2-148
NIED I 23 13 04 00 27.00N 144.10E 8 3.9W **¶17190808**
JMA I 23 13 04 55.1–.10 26.99N 144.08E 0 4.2
IDC I 23 13 04 55.3–.88 26.71N 144.04E 0 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S318.00000°,δ50.00000°,λ-141.00000°. NP2:ϕ_S200.00000°,δ61.00000°,λ-48.00000°. $M_0$7.98000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=19.0km az=40.0.
ISC I 23 14 02 51.3–.50 26.79N–.06 144.07E–.05 10 4.7b,3.5s 137 2-149
NIED I 23 14 02 00 27.00N 144.20E 5 4.3W,3.5s **¶15963050**
BJI I 23 14 02 47.8 26.51N 144.11E 10 4.9b,4.6b
JMA I 23 14 02 48.9–.20 26.95N 144.18E 9 4.3,4.6b
IDC I 23 14 02 49.7–.54 26.75N 144.09E 0 4.3,4.1
ISCJB I 23 14 02 50.1–.35 26.92N–.04 144.09E–.04 10 4.5b,3.6s
NEIC I 23 14 02 51.2–.28 26.74N 144.08E 10 4.8b,3.6s
MOS I 23 14 02 51.2–1.1 26.76N 144.16E 24 4.7b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S357.00000°,δ33.00000°,λ-59.00000°. NP2:ϕ_S141.00000°,δ62.00000°,λ-108.00000°. $M_0$3.25000×10^{15}
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=14.4km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=168.8.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.4km az=62.0.
MOS Error ellipse: s-maj=14.0km s-min=6.6km az=121.2.
IDC I 23 14 20 01.5–.93 26.64N 144.05E 0 3.8,3.6
¶17190810
IDC Error ellipse: s-maj=23.8km s-min=20.2km az=58.0.
ISC I 23 15 02 52.6–1.1 26.7N–.10 144.0E–.10 10 3.4b 10 2-79
ISCJB I 23 15 02 50.7–.87 26.7N–.10 144.1E–.10 10 3.6s,3.5b **¶16396627**
IDC I 23 15 02 50.9–1.0 26.65N 144.15E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=11.7km az=24.8.
IDC Error ellipse: s-maj=30.6km s-min=19.8km az=67.0.
ISC I 23 15 03 36.5–.62 26.81N–.07 144.07E–.06 10 4.4b 77 2-148
NIED I 23 15 03 00 27.20N 143.90E 5 4.0W **¶17190811**
IDC I 23 15 03 34.6–.62 26.72N 144.10E 0 4.2,4.0
BJI I 23 15 03 34.0 26.70N 144.20E 10 4.8b,4.8s
MOS I 23 15 03 35.5–.93 26.67N 144.18E 23 4.5b,4.8s
NEIC I 23 15 03 36.1–.42 26.74N 144.11E 10 4.6b,4.8s
JMA I 23 15 03 36.5–.20 27.18N 143.95E 0 4.6,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S313.00000°,δ39.00000°,λ-113.00000°. NP2:ϕ_S162.00000°,δ55.00000°,λ-72.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=18.6km s-min=16.8km az=57.0.
MOS Error ellipse: s-maj=16.0km s-min=7.8km az=122.2.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.3km az=60.0.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
IDC I 23 17 03 14.3–2.0 26.60N 143.91E 0 3.6,3.4
¶17190818
IDC Error ellipse: s-maj=40.2km s-min=23.8km az=67.0.
ISC I 23 18 31 12.4–.89 26.7N–.10 143.99E–.10 10 3.6b 10 2-79
ISCJB I 23 18 31 10.5–.78 26.7N–.10 144.12E–.10 10 3.7b **¶17190822**
IDC I 23 18 31 10.7–.85 26.73N 144.07E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.2km s-min=11.1km az=21.3.
IDC Error ellipse: s-maj=21.8km s-min=19.8km az=72.0.
ISC I 23 20 42 08.0–1.1 26.7N–.20 144.0E–.10 10 3.8b 9 2-148
ISCJB I 23 20 42 06.2–1.1 26.7N–.10 144.1E–.10 10 3.8b **¶17190832**
IDC I 23 20 42 06.4–1.0 26.65N 144.06E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=12.7km az=13.0.
IDC Error ellipse: s-maj=30.6km s-min=22.4km az=45.0.
ISC I 23 22 13 47.1–.45 26.87N–.04 143.89E–.04 9–2 5.0b,4.1s 423 2-149
NIED I 23 22 13 00 27.00N 144.10E 5 4.8W,4.1s **¶15959417**
IDC I 23 22 13 44.9–.43 26.78N 144.04E 0 4.5,4.4
BJI I 23 22 13 44.3 26.59N 143.93E 10 5.0b,4.7b
ISCJB I 23 22 13 44.6–1.1 26.87N–.03 143.91E–.02 1–6 4.9b,4.1s
JMA I 23 22 13 47.0–.10 27.00N 144.09E 32 4.6,4.1s
MOS I 23 22 13 47.8–.97 26.69N 143.82E 27 5.0b,4.1s
GCMT I 23 22 13 48.0–.30 26.94N 144.12E 17–1 5.0W,4.1s
NEIC I 23 22 13 48.0–3.1 26.76N 143.86E 15–19 5.0b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S181.00000°,δ38.00000°,λ-51.00000°. NP2:ϕ_S315.00000°,δ61.00000°,λ-116.00000°. $M_0$1.69000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=10.9km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.4km az=170.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.2km az=112.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c20; s89,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.01±.22 $M_{\theta\theta}$1.06±.12; $M_{\phi\phi}$1.96±.14; $M_{r\theta}$1.36±.32; $M_{\theta\phi}$-1.28±.06; $M_{\phi r}$-1.18±.30; Best double couple: NP1:ϕ_S318.00000°,δ61.00000°,λ-96.00000°. NP2:ϕ_S151.00000°,δ30.00000°,λ-79.00000°. Principal axes: T 3.3520,Plg15.0000°,Azm53.0000°; N 0.1950,Plg6.0000°,Azm321.0000°; P -3.5370,Plg73.0000°,Azm212.0000° $M_0$3.44500×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=129.0.
ISC I 23 22 51 21.0–.48 26.85N–.04 143.83E–.03 4–2 5.2b,4.4s 702 1-161
NIED I 23 22 51 00 27.10N 144.10E 5 5.0W,4.4s **¶15959419**
BJI I 23 22 51 18.0 26.51N 143.90E 6 5.1b,4.8b
IDC I 23 22 51 19.5–.34 26.80N 143.99E 0 4.9,4.9b
ISCJB I 23 22 51 20.8–.93 26.84N–.03 143.73E–.02 7–5 5.1b,4.4s
JMA I 23 22 51 20.6–.10 27.07N 144.12E 29 5.1,4.4s
MOS I 23 22 51 23.5–1.4 26.69N 143.77E 34 5.2b,4.2s
NEIC I 23 22 51 23.1–3.9 26.66N 143.73E 14–23 5.2b,4.2s
GCMT I 23 22 51 23.1–.20 26.96N 144.01E 12 5.2W,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S154.00000°,δ34.00000°,λ-66.00000°. NP2:ϕ_S306.00000°,δ59.00000°,λ-105.00000°. $M_0$3.68000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=9.0km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=169.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=4.8km az=111.7.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=118.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c67; s115,c191; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.47±.11 $M_{\theta\theta}$2.80±.09; $M_{\phi\phi}$2.67±.10; $M_{r\theta}$3.46±.34; $M_{\theta\phi}$-2.67±.08; $M_{\phi r}$-0.43±.37; Best double couple: NP1:ϕ_S297.00000°,δ61.00000°,λ-107.00000°. NP2:ϕ_S149.00000°,δ33.00000°,λ-62.00000°. Principal axes: T 6.1150,Plg14.0000°,Azm39.0000°; N 0.6410,Plg15.0000°,Azm305.0000°; P -6.7560,Plg69.0000°,Azm171.0000° $M_0$6.43600×10^{16}
ISC I 23 22 55 57.0–1.1 26.8N–.10 144.0E–.10 10 3.8b 8 2-79
ISCJB I 23 22 55 55.1–1.0 26.7N–.10 144.1E–.10 10 3.9b **¶17190837**
IDC I 23 22 55 55.6–1.1 26.75N 143.97E 0 4.1,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.3km s-min=12.6km az=20.7.
IDC Error ellipse: s-maj=26.0km s-min=21.0km az=50.0.
ISC I 23 23 20 07.7–1.2 26.6N–.20 143.8E–.20 10 3.5b 6 2-80
ISCJB I 23 23 20 06.1–1.1 26.6N–.20 143.7E–.30 10 3.6b **¶17190838**
IDC I 23 23 20 06.1–1.2 26.59N 143.91E 0 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.6km s-min=21.8km az=166.6.
IDC Error ellipse: s-maj=34.3km s-min=23.1km az=62.0.
IDC I 24 00 00 15.4–1.3 26.56N 143.99E 0 4.0,3.7

¶17190839
IDC Error ellipse: s-maj=35.3km s-min=26.0km az=50.0.
ISC I 24 00 35 34.9–1.1 26.9N–.20 143.93E–.10 10 3.6b 9 2-79
ISCJB I 24 00 35 33.2–1.0 26.9N–.10 144.01E–.09 10 3.5b **¶17190842**
IDC I 24 00 35 33.4–1.2 26.86N 143.97E 0 3.9,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=11.7km az=179.8.
IDC Error ellipse: s-maj=28.7km s-min=21.5km az=8.0.
IDC I 24 00 36 59.6–2.1 26.34N 143.80E 0 3.6,3.4
¶17190843
IDC Error ellipse: s-maj=63.1km s-min=24.3km az=58.0.
ISC I 24 00 59 10.6–.87 26.7N–.10 144.0E–.10 10 3.8b 20 2-80
ISCJB I 24 00 59 08.5–.67 26.68N–.09 144.05E–.07 10 4.1b **¶16135648**
NEIC I 24 00 59 09.5–4.6 26.65N 144.03E 4–28 4.1b
IDC I 24 00 59 09.1–2.3 26.65N 143.99E 0 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=8.8km az=16.5.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.1km az=90.0.
IDC Error ellipse: s-maj=62.7km s-min=26.1km az=69.0.
ISC I 24 01 00 34.8–.76 26.9N–.10 144.04E–.09 10 4.2b 34 2-148
ISCJB I 24 01 00 33.2–.57 26.90N–.09 144.09E–.07 10 4.1b **¶16021068**
IDC I 24 01 00 33.3–.77 26.90N 144.18E 0 4.2,4.1b
NEIC I 24 01 00 34.8–.39 26.89N 144.11E 10 4.4b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=8.8km az=8.1.
IDC Error ellipse: s-maj=23.1km s-min=17.0km az=24.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.4km az=41.0.
ISC I 24 01 12 00.9–1.1 26.8N–.20 144.0E–.10 10 3.8b 8 2-79
ISCJB I 24 01 11 59.2–.99 26.8N–.20 144.07E–.10 10 3.7b **¶17190845**
IDC I 24 01 11 59.1–1.1 26.78N 144.18E 0 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.3km s-min=12.0km az=7.4.
IDC Error ellipse: s-maj=31.0km s-min=26.0km az=6.0.
ISC I 24 01 14 49.5–1.1 26.9N–.20 144.2E–.20 10 3.7b 7 11-79
ISCJB I 24 01 14 47.7–1.0 26.9N–.10 144.2E–.20 10 3.6b **¶17190846**
IDC I 24 01 14 48.0–1.1 26.82N 144.27E 0 4.0,4.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.5km s-min=20.6km az=161.6.
IDC Error ellipse: s-maj=30.1km s-min=26.5km az=88.0.
ISC I 24 01 20 20.8–.89 27.0N–.10 143.78E–.07 10 3.8b 20 1-79
ISCJB I 24 01 20 18.9–.65 27.08N–.07 143.88E–.05 10 3.9b **¶17190847**
IDC I 24 01 20 19.2–.78 26.96N 143.85E 0 4.0,3.8
JMA I 24 01 20 22.0–.10 27.35N 143.64E 5 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.3km az=162.0.
IDC Error ellipse: s-maj=20.7km s-min=17.5km az=103.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 24 01 31 12.3–1.1 26.7N–.20 143.8E–.10 10 3.8b 8 2-80
ISCJB I 24 01 31 10.4–1.0 26.7N–.20 143.9E–.10 10 3.6b **¶17190848**
IDC I 24 01 31 10.7–1.1 26.70N 143.88E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.2km s-min=12.8km az=14.4.
IDC Error ellipse: s-maj=31.3km s-min=22.1km az=27.0.
ISC I 24 01 58 37.0–.95 26.9N–.20 144.01E–.09 10 3.7b 12 2-83
ISCJB I 24 01 58 35.3–.72 26.9N–.10 144.08E–.08 10 3.6b **¶17190850**
IDC I 24 01 58 35.5–.84 26.88N 144.11E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=10.4km az=2.8.
IDC Error ellipse: s-maj=22.4km s-min=21.5km az=103.0.
ISC I 24 04 36 27.4–.55 26.90N–.07 144.09E–.06 10 4.3b 61 2-149
NIED I 24 04 36 00 27.00N 144.10E 11 4.1W **¶16022419**
IDC I 24 04 36 25.5–.58 26.77N 144.10E 0 4.3,4.2
NEIC I 24 04 36 27.0–.31 26.78N 144.09E 10 4.4b,4.2
JMA I 24 04 36 26.4–.10 27.03N 144.09E 6 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ11.00000°,λ-72.00000°. NP2:ϕ_s102.00000°,δ80.00000°,λ-93.00000°. $M_0$1.51000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=14.4km az=40.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.2km az=54.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 24 05 39 01.9–1.3 26.7N–.20 144.0E–.10 10 3.7b 9 2-72
ISCJB I 24 05 38 59.9–1.1 26.8N–.20 144.1E–.10 10 3.6b **¶17190863**
IDC I 24 05 39 00.1–1.3 26.75N 144.14E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.5km s-min=12.9km az=8.5.
IDC Error ellipse: s-maj=31.9km s-min=26.1km az=66.0.
ISC I 24 07 19 39.5–.48 26.78N–.07 144.02E–.05 10 4.3b 58 2-150
NIED I 24 07 19 00 27.10N 144.10E 5 3.9W **¶16135678**
ISCJB I 24 07 19 38.0–.36 26.70N–.06 144.06E–.05 10 4.2b
JMA I 24 07 19 38.7–.30 27.08N 144.10E 14 3.6
IDC I 24 07 19 38.2–.58 26.74N 144.05E 0 4.3,4.2b
NEIC I 24 07 19 39.7–.28 26.72N 144.01E 10 4.4b,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ32.00000°,λ-75.00000°. NP2:ϕ_s136.00000°,δ59.00000°,λ-99.00000°. $M_0$7.05000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.8km az=9.5.
JMA Error ellipse: s-maj=4.4km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=13.3km az=75.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.8km az=61.0.
ISC I 24 08 25 21.9–1.4 27.67N–.10 143.5E–.10 35 3.8b 15 1-78
IDC I 24 08 25 16.7–1.6 27.60N 143.63E 0 3.9L,3.8 **¶17190874**
ISCJB I 24 08 25 19.2–1.0 27.76N–.07 143.6E–.10 33 3.7b,3.8
JMA I 24 08 25 19.7 27.71N 143.51E 84 3.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=42.4km s-min=20.7km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=6.9km az=30.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 24 08 46 07.5–1.8 26.3N–.20 143.6E–.30 10 3.6b 6 2-55
IDC I 24 08 46 06.0–2.8 26.22N 143.67E 0 3.7,3.7L **¶17190875**
ISC Event type ke.
IDC Error ellipse: s-maj=89.7km s-min=24.7km az=69.0.
IDC I 24 08 57 45.4–1.3 26.80N 143.79E 0 3.6,3.4
¶17190876
IDC Error ellipse: s-maj=31.0km s-min=28.6km az=58.0.
ISC I 24 08 58 09.8–.80 26.9N–.10 144.06E–.08 35 3.7b 19 2-84
IDC I 24 08 58 04.4–.79 26.79N 144.13E 0 3.9,3.8 **¶17190879**
ISCJB I 24 08 58 07.8–.63 26.87N–.08 144.11E–.06 33 3.7b,3.8
JMA I 24 08 58 11.1–.20 26.98N 143.93E 72 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=18.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.2km az=178.7.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 24 11 22 19.7–1.3 27.63N–.09 143.6E–.10 10 4.0b 25 1-60
NIED I 24 11 22 00 27.90N 143.60E 5 3.7W **¶16135697**
ISCJB I 24 11 22 17.6–.88 27.83N–.05 143.62E–.10 10 3.9b
IDC I 24 11 22 18.0–1.6 27.55N 143.68E 0 4.1,4.0
NEIC I 24 11 22 19.4–.88 27.61N 143.67E 10 4.4b,4.0
JMA I 24 11 22 19.0–.20 27.88N 143.57E 20 3.9,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ26.00000°,λ-79.00000°. NP2:ϕ_s152.00000°,δ65.00000°,λ-95.00000°. $M_0$4.08000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=4.9km az=26.9.
IDC Error ellipse: s-maj=42.6km s-min=18.3km az=80.0.
NEIC Event type se. Error ellipse: s-maj=23.0km s-min=8.9km az=82.0.
JMA Error ellipse: s-maj=3.3km s-min=2.9km az=-1.0.
ISC I 24 12 41 12.3–1.6 26.7N–.20 144.0E–.20 10 3.6b 7 2-54
IDC I 24 12 41 09.9–2.2 26.76N 144.20E 0 3.7,3.6 **¶17190889**
ISCJB I 24 12 41 10.0–1.2 26.7N–.20 144.1E–.10 10 3.9b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 24 13 07 47.6–1.1 26.6N–.10 143.8E–.10 10 3.7b 10 2-80
ISCJB I 24 13 07 45.2–.89 26.7N–.10 144.0E–.10 10 3.5b,3.3s **¶17190893**
IDC I 24 13 07 46.0–1.1 26.62N 143.87E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.2km s-min=11.7km az=31.2.
IDC Error ellipse: s-maj=30.8km s-min=20.2km az=63.0.
ISC I 24 14 32 59.3–.77 26.9N–.10 144.04E–.08 10 4.0b 33 2-148
NIED I 24 14 32 00 27.20N 144.00E 8 3.9W **¶16020114**
IDC I 24 14 32 57.5–.70 26.81N 144.16E 0 4.2s,4.2
ISCJB I 24 14 32 58.6–.72 27.07N–.08 144.04E–.06 10 4.2s,3.9b
JMA I 24 14 32 58.3–.10 27.17N 144.02E 6 4.4,3.9b
NEIC I 24 14 32 59.0–.46 26.81N 144.11E 10 4.5b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ22.00000°,λ-87.00000°. NP2:ϕ_s138.00000°,δ68.00000°,λ-91.00000°. $M_0$9.34000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=17.8km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=6.3km az=158.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.8km az=69.0.
IDC I 24 16 36 06.5–2.5 26.73N 144.07E 0 3.5,3.3
¶17190904
IDC Error ellipse: s-maj=62.9km s-min=26.7km az=69.0.
IDC I 24 17 41 00.3–2.1 26.59N 143.97E 0 3.6,3.4
¶17190907
IDC Error ellipse: s-maj=48.0km s-min=25.4km az=58.0.
ISC I 24 18 02 38.8–1.1 26.7N–.20 143.9E–.10 10 3.4b 9 2-59
ISCJB I 24 18 02 36.7–.91 26.7N–.10 144.1E–.10 10 3.4b **¶17190909**
IDC I 24 18 02 37.4–1.2 26.71N 144.02E 0 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=12.3km az=19.1.
IDC Error ellipse: s-maj=29.3km s-min=21.6km az=61.0.
IDC I 24 18 27 51.5–2.2 27.28N 143.37E 0 3.7,3.4L
¶17190912
IDC Error ellipse: s-maj=38.7km s-min=25.1km az=29.0.
ISC I 24 18 35 20.7–2.1 27.99N–.10 142.7E–.30 25 3.6b 6 1-52
ISCJB I 24 18 35 17.8–1.5 28.02N–.08 142.8E–.30 25 3.6b **¶17190913**
IDC I 24 18 35 17.5–2.2 27.89N 142.50E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.8km s-min=10.3km az=8.5.
IDC Error ellipse: s-maj=65.7km s-min=16.1km az=86.0.
ISC I 24 21 26 52.2–.53 27.41N–.06 143.28E–.06 10 4.1b 57 1-149
IDC I 24 21 26 50.5–.53 27.33N 143.35E 0 4.2,4.1 **¶16135739**
ISCJB I 24 21 26 51.2–.44 27.55N–.03 143.26E–.05 10 4.2b,3.4s
NEIC I 24 21 26 52.0–.29 27.33N 143.31E 10 4.6b,3.4s
JMA I 24 21 26 55.8–.10 27.45N 143.04E 80 3.9,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=12.9km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.1km az=29.5.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.9km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 24 21 47 22.7–.68 27.50N–.06 143.29E–.07 10 4.0b 39 1-86
IDC I 24 21 47 20.8–.75 27.38N 143.38E 0 4.0,3.9 **¶16135741**
ISCJB I 24 21 47 21.3–.53 27.59N–.04 143.29E–.06 10 4.0b,3.3s
NEIC I 24 21 47 22.2–.42 27.39N 143.34E 10 4.5b,3.3s
JMA I 24 21 47 25.4–.10 27.73N 143.01E 15–4 4.0,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=16.4km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.4km az=34.8.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.0km az=95.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 24 23 05 05.5–1.4 27.60N 143.38E 0 3.6,3.5L
¶17190929
IDC Error ellipse: s-maj=30.8km s-min=19.7km az=129.0.
ISC I 25 00 29 01.7–1.2 27.20N–.09 143.46E–.09 10 3.6b 16 1-78
ISCJB I 25 00 28 59.4–.92 27.25N–.07 143.57E–.07 10 3.8b **¶17190930**
IDC I 25 00 29 00.0–1.3 27.03N 143.43E 0 3.9,3.7
JMA I 25 00 29 03.2–.20 27.23N 143.41E 16 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.0km az=138.8.
IDC Error ellipse: s-maj=27.9km s-min=18.6km az=67.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 25 04 44 23.3–4.2 26.28N 141.85E 0 3.7,3.6L
¶17190942
IDC Error ellipse: s-maj=155.2km s-min=27.2km az=75.0.
ISC I 25 11 33 38.2–1.1 27.75N–.04 143.31E–.05 17–6 4.8b,4.0s 489 1-162
NIED I 25 11 33 00 27.80N 143.40E 8 4.5W,4.0s **¶15963827**
ISCJB I 25 11 33 35.0–1.0 27.77N–.03 143.31E–.03 6–6 4.8b,4.0s
IDC I 25 11 33 35.3–.42 27.69N 143.42E 0 4.5,4.4
JMA I 25 11 33 37.6–.20 27.79N 143.37E 40 4.5,4.4
NEIC I 25 11 33 37.1–.14 27.65N 143.35E 10 5.0b,4.4
MOS I 25 11 33 38.0–1.1 27.71N 143.30E 27 4.8b,4.4
BJI I 25 11 33 38.7 27.76N 142.75E 10 4.9b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ28.00000°,λ-109.00000°. NP2:ϕ_s173.00000°,δ64.00000°,λ-80.00000°. $M_0$6.16000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.4km az=153.8.
IDC Error ellipse: s-maj=13.4km s-min=10.7km az=95.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.7km az=157.0.
MOS Error ellipse: s-maj=9.7km s-min=5.4km az=106.2.
ISC I 26 06 04 18.2–1.1 26.7N–.20 143.9E–.10 10 3.8b 10 2-80
ISCJB I 26 06 04 16.1–.85 26.8N–.10 144.1E–.10 10 3.7b,3.6s **¶17191011**
IDC I 26 06 04 16.6–1.0 26.76N 143.99E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.0km s-min=11.7km az=19.8.
IDC Error ellipse: s-maj=28.0km s-min=19.6km az=56.0.
ISC I 26 08 33 08.6–.96 27.02N–.10 143.55E–.08 10 3.6b 16 1-88
ISCJB I 26 08 33 05.9–.78 27.10N–.06 143.70E–.08 10 3.8b,3.7s **¶17191021**
IDC I 26 08 33 07.2–1.0 26.94N 143.60E 0 4.0,3.8b
JMA I 26 08 33 11.4–.10 27.24N 143.41E 20 3.4,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=8.2km az=35.0.
IDC Error ellipse: s-maj=26.7km s-min=17.7km az=76.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC I 26 10 07 21.2–1.2 26.44N 142.91E 0 3.6,3.3
¶17191028
IDC Error ellipse: s-maj=35.7km s-min=17.8km az=65.0.
ISC I 26 11 16 21.3–.84 27.1N–.10 143.70E–.08 35 3.7b 22 1-149
IDC I 26 11 16 15.7–.79 27.03N 143.72E 0 3.9,3.9L **¶16135855**
NEIC I 26 11 16 17.2–.52 27.03N 143.66E 10 4.0b,3.9L
ISCJB I 26 11 16 18.4–.65 27.17N–.07 143.82E–.05 33 3.7b,3.4s
JMA I 26 11 16 19.5–.20 27.25N 143.77E 58 3.4,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=17.7km az=150.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=11.4km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.2km az=159.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 26 11 17 21.7–1.1 27.0N–.20 143.8E–.20 10 3.7b 7 11-79
ISCJB I 26 11 17 19.9–1.0 27.1N–.20 143.7E–.20 10 3.7b **¶17191032**
IDC I 26 11 17 20.1–1.1 26.98N 143.86E 0 3.9,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.9km s-min=21.4km az=163.6.
IDC Error ellipse: s-maj=32.2km s-min=26.5km az=87.0.
ISC I 26 14 35 26.1–1.3 26.7N–.20 144.1E–.10 10 3.4b 8 2-72
ISCJB I 26 14 35 24.3–1.1 26.6N–.20 144.2E–.10 10 3.3b **¶17191042**
IDC I 26 14 35 24.1–1.3 26.62N 144.31E 0 3.6,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.7km s-min=13.5km az=14.5.
IDC Error ellipse: s-maj=32.9km s-min=26.5km az=68.0.
IDC I 26 21 46 48.0–1.6 26.67N 143.78E 0 3.6,3.4
¶17191062
IDC Error ellipse: s-maj=36.1km s-min=18.6km az=69.0.

IDC I 27 03 16 08.5–1.2 26.75N 144.17E 0 3.9,3.6 ¶17191075
IDC Error ellipse: s-maj=36.5km s-min=32.1km az=86.0.
ISC I 27 03 56 02.5–1.1 27.6N–.10 143.6E–.10 35 3.5b 8 1-79
IDC I 27 03 55 57.3–1.1 27.56N 143.79E 0 3.7,3.5 **¶17191078**
ISCJB I 27 03 56 00.6–1.0 27.5N–.20 143.7E–.10 33 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 06 05 07.0–.94 27.5N–.10 143.9E–.20 10 3.6b 12 10-87
ISCJB I 27 06 05 05.2–.75 27.6N–.10 143.9E–.20 10 3.7b **¶17191081**
IDC I 27 06 05 05.5–.90 27.56N 143.90E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=15.4km az=165.9.
IDC Error ellipse: s-maj=28.3km s-min=21.5km az=83.0.
ISC I 27 09 25 15.8–.60 27.24N–.07 143.44E–.06 10 5.5s,4.3b 51 1-149
IDC I 27 09 25 14.0–.59 27.11N 143.47E 0 4.3,4.2 **¶16135925**
NEIC I 27 09 25 15.5–.40 27.13N 143.46E 10 4.7b,4.2
JMA I 27 09 25 17.1–.10 27.33N 143.47E 55 4.2,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=14.6km az=66.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.6km az=67.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 27 09 27 35.1–.84 27.2N–.10 143.51E–.07 10 4.0b 27 1-87
ISCJB I 27 09 27 33.1–.58 27.12N–.08 143.59E–.06 10 4.0b **¶16135926**
IDC I 27 09 27 33.6–.83 27.11N 143.54E 0 4.2,4.0
NEIC I 27 09 27 35.1–.73 27.16N 143.53E 10 4.1b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.7km az=170.3.
IDC Error ellipse: s-maj=20.1km s-min=17.5km az=100.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=13.3km az=158.0.
ISC I 27 09 32 31.9–1.2 27.2N–.10 143.52E–.09 10 3.7b 17 1-54
ISCJB I 27 09 32 29.6–.91 27.26N–.07 143.65E–.07 10 3.9b **¶17191094**
IDC I 27 09 32 29.9–1.6 27.18N 143.66E 0 4.6,4.6s
JMA I 27 09 32 33.5–.30 27.28N 143.42E 7 4.6,4.6s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.1km az=141.0.
IDC Error ellipse: s-maj=40.9km s-min=18.7km az=73.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 27 10 03 32.5–.60 27.20N–.07 143.46E–.06 10 4.1b 47 1-125
ISCJB I 27 10 03 30.8–.51 27.30N–.05 143.53E–.05 10 4.2b **¶16135929**
IDC I 27 10 03 30.8–.62 27.09N 143.50E 0 4.2,4.1
NEIC I 27 10 03 32.2–.34 27.10N 143.48E 10 4.7b,4.1
JMA I 27 10 03 32.8–.10 27.33N 143.58E 40 4.0,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=140.2.
IDC Error ellipse: s-maj=17.2km s-min=14.3km az=85.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.8km az=76.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 27 10 24 20.7–.38 27.23N–.04 143.30E–.04 10 4.8b,4.3s 259 1-149
NIED I 27 10 24 00 27.40N 143.40E 5 4.4W,4.3s **¶601990167**
BJI I 27 10 24 15.8 26.95N 143.38E 7 5.1b,4.8b
IDC I 27 10 24 17.8–.50 27.15N 143.46E 0 4.5,4.5
NEIC I 27 10 24 20.8–4.4 27.09N 143.24E 11–27 4.9b,4.5
MOS I 27 10 24 20.6–1.3 27.08N 143.17E 24 4.9b,4.5
ISCJB I 27 10 24 20.4–.20 27.41N–.03 143.15E–.03 10 4.7b,4.3s
JMA I 27 10 24 21.1 27.36N 143.45E 59 4.5,4.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ27.00000°,λ-93.00000°. NP2:ϕ_s331.00000°,δ63.00000°,λ-88.00000°. $M_0$4.85000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.8km az=123.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.2km az=123.0.
MOS Error ellipse: s-maj=10.3km s-min=6.0km az=112.4.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=169.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 27 10 25 38.2–.86 27.1N–.10 143.54E–.09 10 4.0b 13 1-78
ISCJB I 27 10 25 36.1–.69 27.11N–.09 143.62E–.08 10 4.1b,3.8s **¶17191097**
IDC I 27 10 25 36.5–.79 27.11N 143.64E 0 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=10.5km az=178.7.
IDC Error ellipse: s-maj=22.7km s-min=17.1km az=94.0.
ISC I 27 10 26 57.2–.48 27.25N–.06 143.34E–.06 10 4.6b 176 1-149
NIED I 27 10 26 00 27.40N 143.30E 5 4.2W **¶15977994**
IDC I 27 10 26 55.0–.49 27.12N 143.42E 0 4.5,4.4
BJI I 27 10 26 56.3 27.18N 142.98E 5 5.1b,4.7b
ISCJB I 27 10 26 56.7–.32 27.42N–.04 143.30E–.04 10 4.6b,4.3s
MOS I 27 10 26 56.9–1.0 27.11N 143.41E 25 4.7b,4.3s
NEIC I 27 10 26 57.0–.24 27.11N 143.31E 10 4.7b,4.3s
JMA I 27 10 26 59.9–.20 27.40N 143.26E 75 4.1,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ35.00000°,λ-92.00000°. NP2:ϕ_s147.00000°,δ55.00000°,λ-88.00000°. $M_0$2.16000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=12.4km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=138.6.
MOS Error ellipse: s-maj=12.4km s-min=6.6km az=116.7.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=5.6km az=224.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 27 10 37 37.0–10 27.33N 144.72E 0 3.7,3.5 ¶17191098
IDC Error ellipse: s-maj=386.9km s-min=24.0km az=73.0.
ISC I 27 11 23 38.6–.99 27.26N–.05 143.35E–.05 9–5 4.6b,4.3s 204 1-149
NIED I 27 11 23 00 27.30N 143.50E 5 4.2W,4.3s **¶15977995**
IDC I 27 11 23 36.8–.49 27.10N 143.40E 0 4.4,4.4
BJI I 27 11 23 36.5 27.03N 143.13E 5 5.0b,4.7b
MOS I 27 11 23 38.4–1.2 27.09N 143.36E 22 4.7b,4.7b
ISCJB I 27 11 23 38.3–1.2 27.40N–.04 143.30E–.04 9–7 4.6b,4.2s
NEIC I 27 11 23 38.7–.24 27.09N 143.34E 10 4.7b,4.2s
JMA I 27 11 23 39.7–.20 27.33N 143.49E 39 4.4,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ45.00000°,λ-79.00000°. NP2:ϕ_s319.00000°,δ46.00000°,λ-101.00000°. $M_0$2.40000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.4km az=149.0.
MOS Error ellipse: s-maj=11.8km s-min=6.0km az=119.7.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.8km az=139.6.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.7km az=177.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 27 11 35 41.3–1.4 26.59N 142.95E 0 3.8s,3.8 ¶17191103
IDC Error ellipse: s-maj=35.7km s-min=18.4km az=57.0.
IDC I 27 11 42 38.0–1.7 27.13N 143.46E 0 3.8s,3.8 ¶17191104
IDC Error ellipse: s-maj=35.2km s-min=23.5km az=46.0.
IDC I 27 13 00 45.3–1.8 27.06N 143.42E 0 3.7,3.4 ¶17191108
IDC Error ellipse: s-maj=36.1km s-min=22.6km az=47.0.
ISC I 27 13 04 02.4–1.1 27.2N–.10 143.5E–.10 10 3.6b 16 1-71
ISCJB I 27 13 04 00.0–.87 27.28N–.08 143.60E–.07 10 3.7b **¶17191109**
IDC I 27 13 04 00.9–1.1 27.12N 143.47E 0 3.9,3.7
JMA I 27 13 04 03.5 27.47N 143.46E 32–3 3.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.9km az=145.0.
IDC Error ellipse: s-maj=23.4km s-min=19.7km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 27 14 09 11.8–.62 27.23N–.07 143.46E–.07 10 4.2b 41 1-149
ISCJB I 27 14 09 09.8–.56 27.25N–.06 143.60E–.05 10 4.1b,3.1s **¶16135948**
IDC I 27 14 09 10.3–.64 27.10N 143.47E 0 4.2,4.1
NEIC I 27 14 09 11.6–.44 27.14N 143.45E 10 4.4b,4.1
JMA I 27 14 09 12.5–.20 27.38N 143.54E 36 3.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.3km az=147.8.
IDC Error ellipse: s-maj=17.3km s-min=15.2km az=68.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.1km az=72.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 27 15 54 42.6–.46 27.20N–.04 143.41E–.05 21–3 5.0b,3.5s 386 1-149
NIED I 27 15 54 00 27.20N 143.40E 5 4.3W,3.5s **¶15973866**
ISCJB I 27 15 54 39.7–.17 27.21N–.02 143.34E–.03 10 4.9b,3.6s
BJI I 27 15 54 39.1 27.04N 143.31E 13 5.0b,4.9b
IDC I 27 15 54 39.6–.41 27.15N 143.40E 0 4.6,4.5
MOS I 27 15 54 40.0–.98 27.03N 143.45E 21 5.0b,4.5
NEIC I 27 15 54 41.0–2.9 27.11N 143.36E 10–17 5.0b,4.5
JMA I 27 15 54 42.1–.20 27.21N 143.39E 90 4.8,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s304.00000°,δ52.00000°,λ-135.00000°. NP2:ϕ_s183.00000°,δ57.00000°,λ-48.00000°. $M_0$3.64000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.2km az=139.3.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=103.0.
MOS Error ellipse: s-maj=9.2km s-min=5.0km az=117.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.1km az=119.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC I 27 16 04 26.1–2.6 28.16N 143.73E 0 3.6,3.3 ¶17191120
IDC Error ellipse: s-maj=56.9km s-min=33.7km az=77.0.
ISC I 27 16 18 24.2–1.2 27.3N–.10 143.52E–.10 10 4.0b 23 1-83
ISCJB I 27 16 18 22.7–.92 27.33N–.08 143.57E–.08 10 3.9b **¶16135957**
IDC I 27 16 18 22.9–1.5 27.14N 143.49E 0 3.9,3.8
JMA I 27 16 18 23.6–.10 27.42N 143.55E 18 3.3,3.8
NEIC I 27 16 18 24.6–.93 27.18N 143.47E 10 4.1b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=5.6km az=140.2.
IDC Error ellipse: s-maj=27.5km s-min=26.3km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=12.6km az=100.0.
ISC I 27 16 19 52.5–1.2 27.35N–.07 143.5E–.10 35 4.2b 23 1-78
ISCJB I 27 16 19 49.4–.79 27.36N–.06 143.56E–.07 33 4.0b **¶16135960**
NEIC I 27 16 19 49.7–.95 27.08N 143.38E 10 4.3b
JMA I 27 16 19 51.6–.10 27.40N 143.30E 79 4.3b
IDC I 27 16 19 52.7–2.0 26.62N 142.73E 0 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=6.6km az=40.8.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=14.0km az=72.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=64.2km s-min=28.1km az=76.0.
IDC I 27 16 27 05.2–1.7 27.32N 143.19E 0 3.7,3.5 ¶17191123
IDC Error ellipse: s-maj=29.4km s-min=24.2km az=126.0.
IDC I 27 16 34 38.6–2.7 26.62N 141.66E 0 3.7,3.6b ¶17191125
IDC Error ellipse: s-maj=120.5km s-min=21.3km az=75.0.
ISC I 27 16 41 51.6–1.4 27.2N–.10 143.5E–.10 10 3.7b 8 1-59
ISCJB I 27 16 41 49.1–1.1 27.3N–.10 143.6E–.10 10 3.5b **¶17191128**
IDC I 27 16 41 50.4–1.5 27.16N 143.45E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=14.0km az=161.5.
IDC Error ellipse: s-maj=30.5km s-min=22.6km az=65.0.
ISC I 27 16 51 38.0–1.5 26.6N–.20 143.9E–.20 10 3.4b 7 2-52
ISCJB I 27 16 51 35.2–1.4 26.6N–.20 144.1E–.20 10 3.4b **¶17191129**
IDC I 27 16 51 36.4–2.2 26.56N 143.89E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.3km s-min=13.2km az=35.5.
IDC Error ellipse: s-maj=53.5km s-min=21.1km az=55.0.
ISC I 27 17 03 19.2–1.2 27.2N–.10 143.5E–.10 10 3.9b 11 1-78
ISCJB I 27 17 03 17.1–.97 27.2N–.10 143.6E–.10 10 3.8b **¶17191130**
IDC I 27 17 03 17.2–1.4 27.22N 143.71E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=13.3km az=162.4.
IDC Error ellipse: s-maj=41.1km s-min=19.2km az=75.0.
ISC I 27 17 56 23.7–1.3 27.2N–.10 143.5E–.10 10 3.7b 8 1-78
ISCJB I 27 17 56 21.5–1.1 27.2N–.10 143.7E–.10 10 3.6b **¶16397004**
IDC I 27 17 56 22.4–1.3 27.13N 143.54E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=13.8km az=172.5.
IDC Error ellipse: s-maj=28.1km s-min=21.8km az=67.0.
ISC I 27 17 57 25.0–.64 27.30N–.07 143.41E–.08 35 4.0b 43 1-149
IDC I 27 17 57 19.5–.64 27.14N 143.48E 0 4.1,4.0 **¶17191134**
NEIC I 27 17 57 21.1–.34 27.15N 143.48E 10 4.6b,4.0
ISCJB I 27 17 57 22.3–.49 27.24N–.05 143.56E–.05 33 4.0b,4.0
JMA I 27 17 57 22.5 27.35N 143.43E 70 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=14.5km az=89.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.8km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.9km az=142.1.
ISC I 27 18 02 09.2–1.3 27.2N–.10 143.5E–.10 10 4.1b 15 1-78
ISCJB I 27 18 02 07.0–.90 27.20N–.09 143.59E–.08 10 4.0b **¶16135977**
IDC I 27 18 02 07.9–1.4 27.14N 143.48E 0 4.0,3.9b
NEIC I 27 18 02 09.3–.72 27.15N 143.45E 10 4.6b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.6km az=164.1.
IDC Error ellipse: s-maj=27.2km s-min=24.4km az=80.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.3km az=75.0.
ISC I 27 18 19 15.1–.56 27.32N–.06 143.42E–.07 35 4.3b 72 1-149
BJI I 27 18 19 04.0 27.60N 145.31E 18 4.9b,4.7s **¶15977998**
IDC I 27 18 19 09.4–.60 27.16N 143.55E 0 4.2,4.0
NEIC I 27 18 19 11.0–.31 27.17N 143.47E 10 4.6b,4.0
JMA I 27 18 19 13.6 27.34N 143.38E 71 4.5,4.0
ISCJB I 27 18 19 14.0–.49 27.47N–.04 143.38E–.05 33 4.5s,4.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 27 21 41 04.9–.69 27.17N–.08 143.52E–.06 10 4.0b 53 1-149
IDC I 27 21 41 02.9–.75 27.04N 143.57E 0 4.0,3.9 **¶16135992**
ISCJB I 27 21 41 04.0–.55 27.34N–.05 143.52E–.05 10 4.0b,3.0s
JMA I 27 21 41 04.9–.10 27.35N 143.49E 14 4.5,3.0s
NEIC I 27 21 41 04.5–.29 27.09N 143.54E 10 4.2b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=17.4km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.4km az=140.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=6.1km az=97.0.
ISC I 27 21 44 00.6–.94 27.2N–.10 143.46E–.09 35 3.7b 21 1-80
IDC I 27 21 43 54.9–1.1 27.04N 143.59E 0 3.9,3.8 **¶17191147**
JMA I 27 21 43 57.7 27.37N 143.46E 21–2 3.4,3.8
ISCJB I 27 21 43 59.7–.94 27.37N–.08 143.43E–.09 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 21 53 28.3–1.1 27.0N–.10 143.5E–.10 10 3.5b 11 1-83
ISCJB I 27 21 53 26.7–.97 27.0N–.10 143.52E–.09 10 3.6b **¶17191148**
IDC I 27 21 53 26.7–1.2 26.94N 143.46E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=11.4km az=175.1.
IDC Error ellipse: s-maj=25.8km s-min=21.2km az=10.0.
ISC I 27 22 03 39.4–1.0 27.0N–.10 143.59E–.08 10 3.6b 12 1-80
ISCJB I 27 22 03 37.6–.93 27.0N–.10 143.62E–.09 10 3.6b **¶17191150**
IDC I 27 22 03 37.8–1.1 26.94N 143.68E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=11.2km az=178.2.
IDC Error ellipse: s-maj=25.4km s-min=22.6km az=2.0.
ISC I 27 22 42 11.3–.49 27.7N–.10 140.93E–.09 10 4.2b 48 1-151
NIED I 27 22 42 00 27.70N 140.90E 5 4.1W **¶16136001**
IDC I 27 22 42 09.9–.62 27.75N 140.84E 0 4.1,4.0b
ISCJB I 27 22 42 10.1–.32 27.73N–.08 140.91E–.06 10 4.2b,3.1s
NEIC I 27 22 42 11.3–.33 27.75N 140.94E 10 4.4b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ29.00000°,λ-107.00000°. NP2:ϕ_s359.00000°,δ62.00000°,λ-81.00000°. $M_0$1.46000×10^{15}

IDC Error ellipse: s-maj=23.9km s-min=15.8km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=5.2km az=30.3.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.6km az=51.0.
ISC I 27 23 10 31.2–.89 27.3N–.10 143.68E–.09 10 4.2b 17 1-96
ISCJB I 27 23 10 29.4–.68 27.3N–.10 143.74E–.08 10 4.2b **¶16136005**
IDC I 27 23 10 29.9–3.3 27.19N 143.64E 0 4.0,3.8
NEIC I 27 23 10 31.1–.49 27.24N 143.72E 10 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=9.3km az=167.3.
IDC Error ellipse: s-maj=133.7km s-min=24.2km az=76.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=10.3km az=68.0.
ISC I 27 23 30 59.1–1.5 27.2N–.10 143.4E–.10 10 3.8b 7 1-78
ISCJB I 27 23 30 57.1–1.3 27.3N–.10 143.5E–.10 10 3.8b **¶17191156**
IDC I 27 23 30 57.4–1.8 27.15N 143.47E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=14.1km az=153.0.
IDC Error ellipse: s-maj=39.2km s-min=25.9km az=78.0.
IDC I 27 23 39 21.1–2.8 26.56N 142.10E 0 3.7,3.6
¶17191158
IDC Error ellipse: s-maj=122.8km s-min=23.2km az=76.0.
ISC I 28 00 06 03.0–1.2 27.05N–.05 143.49E–.04 26–8 4.8b,3.8s 332 1-149
NIED I 28 00 05 00 27.20N 143.60E 5 4.6W,3.8s **¶15977376**
BJI I 28 00 05 57.3 26.96N 143.52E 5 5.0b,4.7b
IDC I 28 00 05 58.5–.47 26.99N 143.56E 0 4.6,4.5
JMA I 28 00 05 59.8–.40 27.20N 143.65E 26 4.4,4.5
NEIC I 28 00 06 00.7–.15 26.97N 143.47E 10 4.9b,4.5
MOS I 28 00 06 00.8–.88 26.97N 143.47E 25 5.0b,4.5
ISCJB I 28 00 06 00.1–1.1 27.13N–.03 143.46E–.02 12–6 4.7b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ16.00000°,λ-26.00000°. NP2:ϕ_s110.00000°,δ83.00000°,λ-104.00000°. $M_0$9.90000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 28 00 41 10.6–.71 27.21N–.07 143.52E–.08 35 4.2b 46 1-94
IDC I 28 00 41 05.0–.71 27.17N 143.64E 0 4.1,3.9 **¶16136012**
NEIC I 28 00 41 06.6–.33 27.20N 143.64E 10 4.5b,3.9
JMA I 28 00 41 07.7–.60 27.05N 143.60E 66 3.4,3.9
ISCJB I 28 00 41 08.3–.52 27.22N–.06 143.60E–.06 33 4.2b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 28 01 11 59.5–1.0 26.8N–.20 143.96E–.10 10 3.6b 10 2-83
ISCJB I 28 01 11 57.8–.90 26.8N–.20 143.93E–.09 10 3.6b,3.3s **¶17191162**
IDC I 28 01 11 57.7–1.0 26.82N 144.17E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.0km s-min=11.6km az=6.9.
IDC Error ellipse: s-maj=28.6km s-min=23.2km az=3.0.
ISC I 28 01 15 05.9–.71 26.8N–.10 143.98E–.07 10 4.2b 42 2-149
ISCJB I 28 01 15 04.4–.42 26.80N–.07 143.95E–.05 10 4.1b **¶16136015**
IDC I 28 01 15 04.1–.67 26.80N 144.11E 0 4.2,4.0
NEIC I 28 01 15 05.9–.29 26.83N 144.03E 10 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=6.0km az=6.5.
IDC Error ellipse: s-maj=19.2km s-min=16.2km az=85.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.7km az=206.0.
ISC I 28 01 16 07.9–.67 26.9N–.10 144.03E–.07 10 4.2b 38 2-149
IDC I 28 01 16 05.9–.65 26.83N 144.27E 0 4.2,4.0 **¶16136018**
ISCJB I 28 01 16 06.2–.44 26.89N–.07 143.97E–.05 10 4.1b,4.0
NEIC I 28 01 16 07.7–.35 26.87N 144.15E 10 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.7km az=2.2.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=8.1km az=49.0.
ISC I 28 03 41 49.5–1.6 27.6N–.10 143.5E–.20 35 3.5b 10 1-54
IDC I 28 03 41 45.2–6.5 27.48N 143.41E 0 3.8,3.6 **¶17191169**
ISCJB I 28 03 41 47.1–1.4 27.68N–.09 143.6E–.10 33 3.7b,3.6
JMA I 28 03 41 47.9–.10 27.68N 143.52E 39 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=242.6km s-min=26.0km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=8.7km az=31.1.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 28 11 07 55.7–.96 27.1N–.10 143.47E–.09 35 3.7b 16 1-80
IDC I 28 11 07 50.2–1.1 26.99N 143.57E 0 3.9,3.6 **¶17191187**
JMA I 28 11 07 52.9–.30 27.19N 143.53E 71 3.4,3.6
ISCJB I 28 11 07 54.0–.89 27.25N–.10 143.51E–.08 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC I 28 19 42 35.7–1.1 26.53N 141.88E 0 3.7,3.5
¶17191209
IDC Error ellipse: s-maj=35.6km s-min=17.2km az=105.0.
ISC I 28 19 44 44.3–.38 27.03N–.04 143.54E–.05 35 4.7b,3.6s 267 1-149
NIED I 28 19 44 00 27.10N 143.60E 8 4.5W,3.6s **¶15979142**
IDC I 28 19 44 38.6–.48 26.87N 143.52E 0 4.5,4.4
BJI I 28 19 44 40.1 26.92N 143.14E 5 5.0b,4.6b
JMA I 28 19 44 40.8–.20 27.13N 143.61E 40 4.5,4.6b
NEIC I 28 19 44 40.4–.24 26.91N 143.49E 10 4.8b,4.6b
MOS I 28 19 44 41.8–1.1 26.87N 143.61E 33 4.8b,4.6b
ISCJB I 28 19 44 42.1–.19 26.97N–.03 143.54E–.03 33 4.6b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ76.00000°,λ-179.00000°. NP2:ϕ_s203.00000°,δ89.00000°,λ-14.00000°. $M_0$6.13000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 28 19 52 48.3–1.2 26.9N–.10 143.4E–.10 35 3.6b 12 1-149
IDC I 28 19 52 43.1–1.2 26.88N 143.49E 0 3.7,3.5 **¶17191210**
ISCJB I 28 19 52 45.5–.95 27.0N–.10 143.6E–.10 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 28 19 54 35.5–.58 27.11N–.06 143.48E–.06 35 4.3b,4.3s 97 1-149
NIED I 28 19 54 00 27.10N 143.60E 5 4.2W,4.3s **¶15981225**
IDC I 28 19 54 29.5–.65 26.89N 143.50E 0 4.1,3.9
BJI I 28 19 54 30.3 27.00N 143.40E 20 5.0b,4.7s
MOS I 28 19 54 30.8–1.4 26.93N 143.60E 23 4.5b,4.7s
NEIC I 28 19 54 31.1–.35 26.94N 143.51E 10 4.7b,4.7s
JMA I 28 19 54 32.2–.30 27.13N 143.60E 40 4.2,4.7s
ISCJB I 28 19 54 34.3–.43 27.27N–.04 143.48E–.04 33 4.3b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ32.00000°,λ-26.00000°. NP2:ϕ_s105.00000°,δ77.00000°,λ-120.00000°. $M_0$1.99000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC I 28 20 38 13.2–1.2 26.37N 141.87E 0 3.6,3.6
¶17191212
IDC Error ellipse: s-maj=49.4km s-min=15.7km az=106.0.
ISC I 28 20 40 15.2–1.0 27.14N–.08 143.48E–.10 35 3.5b 21 1-78
IDC I 28 20 40 09.1–1.1 26.86N 143.65E 0 3.8,3.6 **¶17191213**
ISCJB I 28 20 40 14.9–1.1 27.34N–.07 143.41E–.09 33 3.5b,3.6
JMA I 28 20 40 15.9–.10 27.40N 143.32E 43 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=19.1km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=6.3km az=40.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 28 23 51 26.6–.74 27.89N–.08 139.6E–.10 478 3.6b 28 2-82
ISCJB I 28 23 51 25.8–.52 27.84N–.05 139.41E–.09 478 3.4b **¶17191220**
IDC I 28 23 51 26.7–.55 27.86N 139.99E 498–8 3.9,3.2
JMA I 28 23 51 28.4–.30 28.07N 140.45E 509–4 3.8,3.2
ISC Event type se.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.6km az=166.8.
IDC Error ellipse: s-maj=21.3km s-min=11.8km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=5.9km az=-1.0.
ISC I 29 01 45 26.3–1.1 27.0N–.10 143.78E–.09 10 3.6b 8 1-79
ISCJB I 29 01 45 24.4–.93 27.0N–.10 143.90E–.09 10 3.7b **¶17191224**
IDC I 29 01 45 24.8–1.1 26.93N 143.81E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=11.9km az=4.7.
IDC Error ellipse: s-maj=24.3km s-min=21.9km az=173.0.
IDC I 29 04 33 21.8–2.6 26.48N 142.53E 0 3.9,3.7
¶17191233
IDC Error ellipse: s-maj=118.1km s-min=17.7km az=73.0.
IDC I 29 04 43 08.6–6.3 26.78N 143.16E 0 3.8,3.6
¶17191234
IDC Error ellipse: s-maj=264.8km s-min=25.2km az=76.0.
ISC I 29 19 21 09.0–.69 27.29N–.06 143.40E–.08 35 4.1b 57 1-95
IDC I 29 19 21 03.1–.73 27.15N 143.52E 0 4.0,3.9 **¶16136138**
NEIC I 29 19 21 04.8–.33 27.17N 143.51E 10 4.4b,3.9
JMA I 29 19 21 07.5–.40 27.36N 143.39E 41 4.2,3.9
ISCJB I 29 19 21 08.3–.56 27.45N–.04 143.30E–.06 33 4.1b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 29 20 57 08.0–.97 26.90N–.08 143.82E–.09 35 3.7b,3.5s 22 1-84
IDC I 29 20 57 02.8–1.2 26.73N 144.03E 0 4.0L,3.8 **¶16136143**
ISCJB I 29 20 57 05.0–.71 26.99N–.05 143.95E–.06 33 3.7b,3.6s
NEIC I 29 20 57 04.3–.85 26.78N 143.87E 10 4.4b,3.6s
JMA I 29 20 57 07.2–.30 27.17N 143.79E 26 3.5,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=35.2km s-min=20.6km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.7km az=9.2.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=11.4km az=73.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 30 11 06 42.5–2.3 26.96N 143.66E 0 3.7,3.5
¶17191317
IDC Error ellipse: s-maj=42.3km s-min=27.9km az=46.0.
ISC I 30 12 37 29.1–.34 27.05N–.04 143.59E–.04 35 4.7b,3.8s 275 1-153
NIED I 30 12 37 00 27.20N 143.80E 5 4.3W,3.8s **¶15990264**
BJI I 30 12 37 22.0 26.77N 143.58E 9 4.9b,4.6b
IDC I 30 12 37 23.1–.45 26.89N 143.63E 0 4.5,4.4
NEIC I 30 12 37 25.5–.16 26.91N 143.53E 10 4.9b,4.4
JMA I 30 12 37 25.3–.30 27.17N 143.77E 58 4.5,4.4
MOS I 30 12 37 25.5–.99 26.88N 143.48E 25 4.9b,4.4
ISCJB I 30 12 37 27.4–.18 26.95N–.03 143.50E–.03 33 4.7b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ44.00000°,λ-130.00000°. NP2:ϕ_s177.00000°,δ58.00000°,λ-58.00000°. $M_0$3.50000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 30 13 18 32.8–1.5 27.1N–.10 143.7E–.10 35 3.3b 11 1-52
IDC I 30 13 18 28.6–2.0 26.95N 143.64E 0 3.6,3.4 **¶17191326**
ISCJB I 30 13 18 30.0–1.1 27.15N–.09 143.83E–.08 33 3.5b,3.4
JMA I 30 13 18 31.2–.30 27.23N 143.72E 61 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=22.6km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=9.7km az=157.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 30 13 22 07.4–1.5 27.0N–.10 143.7E–.10 10 11 1-51
ISCJB I 30 13 22 04.8–1.1 27.10N–.08 143.84E–.08 10 3.6b **¶600523604**
JMA I 30 13 22 08.5–.20 27.15N 143.71E 22 3.3
IDC I 30 13 22 11.9–1.7 26.57N 141.20E 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.7km az=146.9.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=44.8km s-min=18.6km az=130.0.
ISC I 30 16 04 55.2–.85 27.07N–.10 143.91E–.09 10 3.7b 17 2-79
ISCJB I 30 16 04 53.4–.72 27.12N–.08 143.89E–.08 10 3.7b **¶17191334**
IDC I 30 16 04 53.1–.88 26.97N 144.11E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=10.4km az=27.2.
IDC Error ellipse: s-maj=21.5km s-min=20.0km az=114.0.
ISC I 30 18 01 55.2–1.2 27.1N–.10 143.66E–.08 10 3.5b 13 1-59
ISCJB I 30 18 01 52.7–.94 27.10N–.10 143.82E–.07 10 3.5b **¶17191344**
IDC I 30 18 01 53.5–1.8 26.94N 143.70E 0 3.7,3.6L
JMA I 30 18 01 55.8–.20 27.34N 143.55E 0 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.4km az=164.8.
IDC Error ellipse: s-maj=49.0km s-min=20.8km az=70.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 30 18 04 40.4–.39 27.02N–.05 143.68E–.05 35 4.5b,3.9s 218 1-149
NIED I 30 18 04 00 27.10N 143.70E 8 4.6W,3.9s **¶15990268**
IDC I 30 18 04 35.0–.42 26.95N 143.80E 0 4.4,4.4
NEIC I 30 18 04 36.7–.22 26.98N 143.65E 10 4.7b,4.4
JMA I 30 18 04 37.7–.10 27.12N 143.69E 84 3.9,4.4
MOS I 30 18 04 37.5–.93 26.97N 143.67E 28 4.9b,4.4
BJI I 30 18 04 37.0 27.10N 143.60E 10 4.8b,4.5s
ISCJB I 30 18 04 39.8–.24 27.22N–.03 143.64E–.03 33 4.5b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ23.00000°,λ-91.00000°. NP2:ϕ_s153.00000°,δ67.00000°,λ-89.00000°. $M_0$8.01000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC I 30 18 06 56.1–.79 27.1N–.10 143.69E–.08 10 3.9b 20 1-87
ISCJB I 30 18 06 54.4–.58 27.04N–.09 143.77E–.07 10 3.8b **¶17191345**
IDC I 30 18 06 54.6–.77 27.08N 143.75E 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=9.3km az=175.5.
IDC Error ellipse: s-maj=21.2km s-min=17.8km az=123.0.
IDC I 30 18 12 52.6–2.4 26.86N 143.63E 0 4.0,4.0s
¶17191347
IDC Error ellipse: s-maj=58.6km s-min=25.6km az=62.0.
ISC I 30 18 19 42.0–.75 27.1N–.10 143.67E–.08 35 3.8b 20 1-89
IDC I 30 18 19 36.6–.76 27.01N 143.80E 0 3.9,3.7 **¶17191348**
JMA I 30 18 19 39.3–.40 27.06N 143.70E 24 3.3,3.7
ISCJB I 30 18 19 40.0–.60 26.94N–.10 143.72E–.06 33 3.7s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 18 20 43.6–.98 27.18N–.08 143.68E–.09 35 3.6b 21 1-78
IDC I 30 18 20 37.9–1.1 26.95N 143.87E 0 4.1L,3.9 **¶17191349**
JMA I 30 18 20 41.2 27.35N 143.66E 24–5 3.5,3.9
ISCJB I 30 18 20 43.1–.99 27.36N–.05 143.63E–.08 33 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 18 34 19.0–.56 27.11N–.04 143.69E–.04 26–3 5.2b,4.2s 964 1-164
NIED I 30 18 34 00 27.20N 143.80E 5 4.9W,4.2s **¶15981262**
IDC I 30 18 34 14.7–.33 26.98N 143.79E 0 5.0,4.9
ISCJB I 30 18 34 15.1–.11 27.09N–.02 143.72E–.02 10 5.1b,4.2s
MOS I 30 18 34 16.8–.95 26.97N 143.70E 25 5.3b,4.1s
GCMT I 30 18 34 16.3–.30 27.05N 143.69E 12 5.0W,4.1s
JMA I 30 18 34 16.6–.40 27.20N 143.78E 36 5.0,4.1s
NEIC I 30 18 34 16.3–.11 26.97N 143.68E 10 5.3b,4.1s
BJI I 30 18 34 17.1 26.98N 143.50E 21 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ20.00000°,λ-73.00000°. NP2:ϕ_s135.00000°,δ71.00000°,λ-96.00000°. $M_0$2.59000×10^{16}
IDC Error ellipse: s-maj=10.8km s-min=8.6km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=171.4.
MOS Error ellipse: s-maj=7.0km s-min=4.0km az=106.3.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c24; s90,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.03±.07 $M_{\theta\theta}$0.88±.07; $M_{\phi\phi}$2.15±.07; $M_{r\theta}$-0.46±.27; $M_{\theta\phi}$-1.21±.06; $M_{\phi r}$1.19±.28; Best double couple: NP1:ϕ_s153.00000°,δ57.00000°,λ-86.00000°. NP2:ϕ_s325.00000°,δ34.00000°,λ-96.00000°. Principal axes: T 3.1370,Plg12.0000°,Azm240.0000°; N 0.1620,Plg3.0000°,Azm330.0000° ; P -3.2990,Plg78.0000°,Azm77.0000° $M_0$3.21800×10^{16}

JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.7km az=156.0.
ISC I 30 18 42 51.5–.78 27.0N–.10 143.72E–.07 10 3.8b 19 1-80
ISCJB I 30 18 42 49.3–.58 27.01N–.08 143.81E–.06 10 3.9s,3.7b **¶16136236**
IDC I 30 18 42 49.9–.79 26.95N 143.84E 0 4.0,3.9s
NEIC I 30 18 42 51.4–.45 26.98N 143.72E 10 4.0b,3.9s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=7.7km az=2.1.
IDC Error ellipse: s-maj=22.2km s-min=18.0km az=90.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.4km az=78.0.
ISC I 30 19 00 13.8–.86 27.0N–.10 143.74E–.09 10 3.8b 12 1-83
ISCJB I 30 19 00 11.9–.67 27.0N–.10 143.81E–.08 10 3.8b **¶17191354**
IDC I 30 19 00 12.3–.79 26.95N 143.82E 0 4.0,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=10.2km az=2.9.
IDC Error ellipse: s-maj=24.2km s-min=18.5km az=100.0.
ISC I 30 19 09 24.4–1.3 27.4N–.10 143.4E–.10 35 3.7b 17 1-78
IDC I 30 19 09 16.3–.91 26.83N 143.43E 0 3.8,3.7 **¶17191355**
JMA I 30 19 09 22.1 27.41N 143.47E 73–5 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=16.6km az=68.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC I 30 19 18 44.4–1.2 27.0N–.10 143.67E–.08 10 3.5b 14 1-59
ISCJB I 30 19 18 42.2–.93 26.97N–.09 143.82E–.07 10 3.6b **¶17191357**
IDC I 30 19 18 43.1–1.5 26.83N 143.64E 0 3.7,3.6
JMA I 30 19 18 44.7–.30 27.10N 143.66E 6 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=8.4km az=169.1.
IDC Error ellipse: s-maj=35.4km s-min=18.7km az=64.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC I 30 19 25 42.5–2.5 26.87N 143.73E 0 3.6,3.5L
¶17191359
IDC Error ellipse: s-maj=62.9km s-min=25.8km az=64.0.
ISC I 30 19 48 57.4–.66 27.05N–.07 143.70E–.08 35 3.8b 32 1-149
IDC I 30 19 48 51.9–.68 26.95N 143.87E 0 3.9,3.8 **¶17191361**
ISCJB I 30 19 48 55.1–.57 27.08N–.05 143.80E–.05 33 3.8b,3.8
JMA I 30 19 48 56.7–.50 27.01N 143.64E 78 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=15.5km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.5km az=147.2.
JMA Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.
ISC I 30 20 20 58.6–1.1 26.9N–.10 143.7E–.10 10 3.5b 9 1-58
ISCJB I 30 20 20 55.9–.98 27.0N–.10 143.8E–.10 10 3.6b **¶17191362**
IDC I 30 20 20 57.3–1.5 26.86N 143.67E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=12.2km az=35.6.
IDC Error ellipse: s-maj=37.6km s-min=18.4km az=59.0.
ISC I 30 20 29 31.0–.84 27.48N–.10 143.4E–.10 35 3.6b 21 1-83
IDC I 30 20 29 25.6–.82 27.36N 143.44E 0 3.9,3.8L **¶17191363**
JMA I 30 20 29 26.1–.40 27.58N 143.58E 25 3.8,3.8L
ISCJB I 30 20 29 29.7–.73 27.64N–.07 143.35E–.09 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC I 31 00 18 26.0–1.5 27.10N–.10 143.5E–.10 35 3.8b 12 1-78
ISCJB I 31 00 18 23.7–1.1 27.0N–.10 143.6E–.10 35 3.7b,3.5s **¶17191369**
JMA I 31 00 18 24.2–.20 27.12N 143.51E 39 3.7b,3.5s
IDC I 31 00 18 26.9–1.3 26.50N 141.66E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=11.9km az=145.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=17.1km az=133.0.
ISC I 31 00 46 39.8–.72 27.1N–.10 143.85E–.08 10 4.0b 32 1-117
IDC I 31 00 46 38.4–2.2 27.09N 143.96E 0 4.0,4.0L **¶16136258**
ISCJB I 31 00 46 39.3–.57 27.3N–.10 143.82E–.05 10 4.0b,3.7s
NEIC I 31 00 46 39.9–.33 27.09N 143.89E 10 4.1b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=56.8km s-min=21.5km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=6.1km az=166.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.0km az=187.0.
ISC I 31 07 45 08.3–.74 27.02N–.07 143.71E–.06 10 4.0b 43 1-149
IDC I 31 07 45 05.7–.80 26.93N 143.89E 0 4.1,4.0b **¶16136283**
ISCJB I 31 07 45 06.5–.52 27.12N–.05 143.78E–.04 10 4.1b,4.0b
NEIC I 31 07 45 07.9–.50 26.96N 143.73E 10 4.3b,4.0b
JMA I 31 07 45 10.1–.10 27.32N 143.59E 13 4.4,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=17.8km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.0km az=150.7.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=10.2km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 31 11 47 25.4–.94 27.0N–.10 143.64E–.09 10 3.7b 12 1-72
ISCJB I 31 11 47 23.6–.81 26.9N–.10 143.73E–.10 10 3.7b **¶17191403**
IDC I 31 11 47 24.2–.95 26.96N 143.62E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=10.8km az=31.1.
IDC Error ellipse: s-maj=23.6km s-min=16.4km az=66.0.
ISC I 31 11 57 48.4–1.2 27.1N–.20 143.4E–.10 10 4.0b 10 1-83
ISCJB I 31 11 57 46.3–.92 27.1N–.10 143.5E–.10 10 3.8b **¶17191405**
IDC I 31 11 57 47.0–1.1 27.10N 143.35E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=13.1km az=2.4.
IDC Error ellipse: s-maj=26.4km s-min=20.3km az=67.0.
ISC I 31 11 59 59.7–.45 27.88N–.06 139.77E–.09 500 3.6b 76 2-152
ISCJB I 31 11 59 59.5–.32 27.84N–.03 139.68E–.06 500 3.6b **¶17191406**
JMA I 31 12 00 00.1–.10 27.99N 140.08E 523 4.4
IDC I 31 12 00 01.0–.85 27.88N 139.67E 512–9 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=172.4.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=8.3km az=85.0.
ISC I 31 15 14 36.9–.92 27.0N–.10 143.8E–.10 10 3.4b 10 1-72
ISCJB I 31 15 14 35.0–.80 26.9N–.10 143.83E–.09 10 3.5b **¶17191414**
IDC I 31 15 14 35.2–.94 26.96N 143.92E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=11.2km az=18.0.
IDC Error ellipse: s-maj=26.8km s-min=19.5km az=82.0.
IDC I 31 20 32 42.0–1.3 26.78N 143.89E 0 3.7,3.5
¶17191434
IDC Error ellipse: s-maj=40.3km s-min=23.1km az=84.0.
IDC II 01 06 47 02.1–8.6 26.50N 139.32E 615–93 3.6,2.6
¶17191461
IDC Error ellipse: s-maj=145.7km s-min=24.7km az=74.0.
ISC II 01 09 52 14.6–1.5 27.14N–.09 143.9E–.10 35 4.2b 10 1-59
ISCJB II 01 09 52 12.6–1.2 27.14N–.07 143.95E–.09 35 4.0b **¶17191470**
JMA II 01 09 52 14.3–.40 27.33N 143.83E 44 4.4
IDC II 01 09 52 15.1–2.3 26.38N 143.29E 0 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=9.8km az=20.1.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=80.2km s-min=19.1km az=67.0.
ISC II 01 15 26 46.3–.90 27.20N–.07 143.52E–.08 10 3.6b 22 1-83
NIED II 01 15 26 00 27.30N 143.80E 5 3.7W **¶17191488**
JMA II 01 15 26 43.5–.10 27.26N 143.76E 15–3 3.6
ISCJB II 01 15 26 44.2–.75 27.32N–.05 143.61E–.07 10 3.7b
IDC II 01 15 26 44.5–.97 27.11N 143.59E 0 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ77.00000°,λ-2.00000°. NP2:ϕ_s305.00000°,δ88.00000°,λ-167.00000°. M_o4.31000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.9km az=23.0.
IDC Error ellipse: s-maj=25.2km s-min=17.5km az=85.0.
ISC II 01 15 36 14.1–.90 27.19N–.08 143.53E–.07 10 3.4b 22 1-71
ISCJB II 01 15 36 12.0–.73 27.27N–.05 143.63E–.06 10 3.5b **¶17191490**
IDC II 01 15 36 12.6–.98 27.10N 143.60E 0 3.8,3.7
JMA II 01 15 36 16.4–.10 27.27N 143.49E 65 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.8km az=43.3.
IDC Error ellipse: s-maj=23.1km s-min=18.7km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 01 17 47 20.6–1.2 27.23N–.08 143.4E–.10 35 4.1b 22 1-78
IDC II 01 17 47 14.9–1.5 27.09N 143.59E 0 3.9,3.8b **¶16328617**
NEIC II 01 17 47 16.2–.74 27.09N 143.58E 10 4.5b,3.8b
ISCJB II 01 17 47 17.4–.74 27.24N–.06 143.55E–.07 33 3.9b,3.8b
JMA II 01 17 47 20.3–.20 27.27N 143.28E 76 2.8,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=19.7km az=71.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=8.4km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=8.0km az=141.2.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC II 01 17 51 20.8–.39 27.13N–.04 143.51E–.05 35 4.6b,3.5s 214 1-149
NIED II 01 17 51 00 27.20N 143.20E 5 4.4W,3.5s **¶16168789**
IDC II 01 17 51 15.5–.47 27.11N 143.53E 0 4.4,4.3
MOS II 01 17 51 16.1–.89 27.06N 143.54E 19 4.8b,4.3
NEIC II 01 17 51 16.7–.22 27.06N 143.53E 10 4.9b,4.3
BJI II 01 17 51 17.3 27.08N 143.06E 10 5.0b,4.5b
ISCJB II 01 17 51 18.8–.24 27.21N–.03 143.47E–.03 33 4.7b,3.6s
JMA II 01 17 51 21.4–.10 27.25N 143.21E 79 4.3,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ16.00000°,λ-125.00000°. NP2:ϕ_s174.00000°,δ77.00000°,λ-80.00000°. M_o4.39000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.6km az=94.0.
MOS Error ellipse: s-maj=11.6km s-min=6.5km az=113.8.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.6km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=137.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 01 18 37 58.8–.56 27.22N–.03 143.44E–.04 12–2 5.0b,4.1s 489 1-149
ISCJB II 01 18 37 55.7–.92 27.23N–.02 143.37E–.02 1–5 5.0b,4.0s **¶15995167**
IDC II 01 18 37 56.9–.38 27.11N 143.44E 0 4.8,4.7
MOS II 01 18 37 57.1–1.0 27.04N 143.43E 14 5.1b,4.0s
NEIC II 01 18 37 58.4–.15 27.10N 143.38E 10 5.0b,4.0s
GCMT II 01 18 37 58.4–.70 27.36N 143.52E 22–1 4.9W,4.0s
BJI II 01 18 37 59.0 27.24N 142.99E 10 5.0b,4.8b
NIED II 01 18 38 00 27.30N 143.40E 5 4.6W,4.8b
JMA II 01 18 38 00.8–.10 27.27N 143.37E 68 4.5,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.3km az=37.5.
IDC Error ellipse: s-maj=11.9km s-min=9.0km az=82.0.
MOS Error ellipse: s-maj=8.3km s-min=4.8km az=114.5.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.2km az=147.0.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c21; s64,c86; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.73±.28 $M_{\theta\theta}$0.93±.15; $M_{\phi\phi}$1.80±.16; $M_{r\theta}$0.61±.23; $M_{\theta\phi}$-0.77±.07; $M_{\phi r}$-0.47±.21; Best double couple: NP1:ϕ_s324.00000°,δ53.00000°,λ-96.00000°. NP2:ϕ_s154.00000°,δ37.00000°,λ-82.00000°. Principal axes: T 2.3510,Plg8.0000°,Azm58.0000°; N 0.5040,Plg5.0000°,Azm328.0000°; P -2.8540,Plg81.0000°,Azm208.0000° M_o2.60300×10^{16}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ30.00000°,λ-125.00000°. NP2:ϕ_s164.00000°,δ66.00000°,λ-71.00000°. M_o9.40000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 01 18 41 23.7–1.1 27.26N–.09 143.50E–.08 10 4.0b 26 1-71
ISCJB II 01 18 41 21.4–.69 27.25N–.06 143.58E–.06 10 4.1b **¶16328618**
IDC II 01 18 41 21.7–1.1 27.13N 143.65E 0 4.1,3.9
NEIC II 01 18 41 23.4–.60 27.14N 143.54E 10 4.7b,3.9
JMA II 01 18 41 27.1–.10 27.48N 143.33E 33 4.7b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.3km az=146.8.
IDC Error ellipse: s-maj=28.6km s-min=20.4km az=79.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.8km az=82.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC II 01 18 51 40.8–1.4 27.11N 143.60E 0 3.7,3.5
¶17191502
IDC Error ellipse: s-maj=29.7km s-min=27.1km az=124.0.
IDC II 01 18 52 43.2–7.2 27.11N 143.48E 0 3.8,3.6
¶17191503
IDC Error ellipse: s-maj=304.7km s-min=22.7km az=76.0.
IDC II 01 18 54 17.3–8.2 26.98N 143.03E 0 3.6,3.4
¶17191504
IDC Error ellipse: s-maj=319.1km s-min=22.7km az=72.0.
IDC II 01 19 23 15.0–1.7 27.12N 143.53E 0 3.8,3.7b
¶17191506
IDC Error ellipse: s-maj=42.9km s-min=21.3km az=71.0.
ISC II 01 21 31 31.0–1.1 27.2N–.10 143.5E–.10 35 3.6b 17 1-71
IDC II 01 21 31 25.3–1.1 27.19N 143.65E 0 3.8,3.7 **¶17191516**
ISCJB II 01 21 31 28.7–.83 27.23N–.08 143.58E–.07 33 3.6b,3.7
JMA II 01 21 31 29.2–.20 27.33N 143.47E 72 3.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=19.7km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.9km az=149.8.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC II 02 04 48 56.3–1.3 27.19N–.06 143.26E–.05 12–7 4.5b,4.0s 154 1-149
IDC II 02 04 48 53.7–.48 27.16N 143.37E 0 4.5,4.4 **¶15997181**
BJI II 02 04 48 53.4 27.00N 143.21E 10 4.9b,4.6s
ISCJB II 02 04 48 54.2–1.1 27.22N–.04 143.32E–.04 10–6 4.5b,3.9s
NEIC II 02 04 48 55.8–.30 27.11N 143.30E 10 4.7b,3.9s
MOS II 02 04 48 56.0–.85 27.13N 143.29E 25 4.8b,3.9s
JMA II 02 04 48 57.3–.20 27.30N 143.31E 76 4.1,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.5km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=143.5.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.5km az=171.0.
MOS Error ellipse: s-maj=14.1km s-min=7.2km az=117.6.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC II 02 14 58 18.3–.84 26.61N–.10 143.06E–.09 35 4.0b 27 1-86
NIED II 02 14 58 00 26.60N 143.20E 11 3.8W **¶16026082**
JMA II 02 14 58 13.4–.30 26.59N 143.23E 0 4.1
IDC II 02 14 58 13.3–.99 26.62N 143.04E 0 4.0,3.8
NEIC II 02 14 58 14.8–.60 26.64N 143.02E 10 4.3b,3.8
ISCJB II 02 14 58 15.7–.58 26.65N–.07 143.23E–.06 33 3.9b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ53.00000°,λ-153.00000°. NP2:ϕ_s327.00000°,δ69.00000°,λ-41.00000°. M_o6.49000×10^{14}
NEIC Event type se.
ISCJB Event type se.
IDC II 03 15 59 13.0–2.8 27.15N 143.53E 0 3.6,3.4
¶17191600
IDC Error ellipse: s-maj=59.3km s-min=29.8km az=48.0.
ISC II 03 16 01 39.7–1.1 27.1N–.10 143.5E–.10 10 3.6b 14 1-149
ISCJB II 03 16 01 37.8–.89 27.1N–.10 143.55E–.10 10 3.7b **¶17191601**
IDC II 03 16 01 38.3–1.1 27.09N 143.49E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=12.7km az=6.5.
IDC Error ellipse: s-maj=29.8km s-min=18.4km az=73.0.
IDC II 03 16 55 11.3–5.6 26.77N 143.19E 0 3.5,3.5L
¶17191605
IDC Error ellipse: s-maj=222.1km s-min=25.7km az=74.0.
ISC II 03 19 10 15.0–.98 27.36N–.07 143.4E–.10 35 4.2b 39 1-86
NIED II 03 19 10 00 27.40N 143.40E 5 3.9W **¶16328654**
IDC II 03 19 10 08.8–1.1 27.12N 143.51E 0 4.1,4.0
NEIC II 03 19 10 10.3–.77 27.17N 143.54E 10 4.3b,4.0
JMA II 03 19 10 12.7 27.42N 143.40E 62 4.0,4.0
ISCJB II 03 19 10 14.4–.87 27.52N–.05 143.31E–.09 33 4.0b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ17.00000°,λ-93.00000°. NP2:ϕ_s162.00000°,δ73.00000°,λ-89.00000°. M_o7.17000×10^{14}

NEIC Event type se.
ISCJB Event type se.
IDC II 03 19 13 25.8–1.4 26.52N 141.65E 0 4.4,4.2
¶17191614
IDC Error ellipse: s-maj=38.5km s-min=18.0km az=132.0.
JMA II 03 21 03 07.0–.40 27.15N 143.67E 27 4.0
¶600525166
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC II 04 00 17 23.3–.58 27.22N–.07 143.46E–.07 35 4.1b 52 1-125
NIED II 04 00 17 00 27.30N 143.40E 5 3.7W **¶16328704**
IDC II 04 00 17 17.7–.69 27.11N 143.58E 0 4.0,3.9
NEIC II 04 00 17 19.3–.25 27.14N 143.53E 10 4.2b,3.9
ISCJB II 04 00 17 21.0–.43 27.24N–.05 143.53E–.05 33 4.0b,3.9
JMA II 04 00 17 22.1–.10 27.31N 143.38E 70 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ40.00000°,λ-121.00000°. NP2:ϕ_s198.00000°,δ57.00000°,λ-66.00000°. $M_0$3.64000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=15.8km az=79.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.8km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.2km az=147.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 05 04 59 13.3–.93 27.1N–.10 140.6E–.20 443 3.4b 17 1-83
ISCJB II 05 04 59 12.0–.68 27.19N–.09 140.7E–.20 443 3.5b **¶17191714**
IDC II 05 04 59 12.2–.83 27.19N 140.36E 420–12 3.9,3.3
JMA II 05 04 59 15.0–.20 27.48N 140.95E 424 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=9.8km az=154.8.
IDC Error ellipse: s-maj=37.9km s-min=22.1km az=86.0.
JMA Error ellipse: s-maj=3.3km s-min=6.9km az=-1.0.
ISC II 05 06 22 06.0–.61 27.18N–.07 143.50E–.07 35 4.3b 79 1-149
IDC II 05 06 21 59.8–.71 27.07N 143.58E 0 4.2,4.1 **¶16022437**
NEIC II 05 06 22 01.5–.30 27.09N 143.58E 10 4.5b,4.1
BJI II 05 06 22 01.8 27.01N 142.96E 10 5.0b,4.8s
JMA II 05 06 22 03.5–.10 27.25N 143.47E 83 4.2,4.8s
MOS II 05 06 22 04.0–1.6 27.18N 143.57E 37 4.5b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=16.5km az=155.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.8km az=49.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=14.2km s-min=6.5km az=110.0.
ISC II 05 14 54 05.3–.89 26.6N–.20 143.77E–.09 10 3.8b 14 1-149
ISCJB II 05 14 54 03.8–.70 26.6N–.10 143.85E–.08 10 3.8b **¶17191743**
IDC II 05 14 54 04.2–.81 26.65N 143.83E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=10.0km az=16.4.
IDC Error ellipse: s-maj=21.3km s-min=20.2km az=60.0.
ISC II 05 15 32 36.5–1.3 27.0N–.20 144.0E–.10 10 3.3b 7 2-71
ISCJB II 05 15 32 34.5–1.2 27.1N–.10 144.1E–.10 10 3.3b **¶17191746**
IDC II 05 15 32 34.5–1.6 26.99N 144.12E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=13.4km az=172.6.
IDC Error ellipse: s-maj=33.0km s-min=28.2km az=85.0.
ISC II 05 19 07 20.4–1.3 26.0N–.10 140.8E–.10 150 16 1-78
ISCJB II 05 19 07 19.4–1.1 25.92N–.09 140.83E–.09 150 3.4b **¶17191757**
IDC II 05 19 07 22.4–2.0 26.09N 141.45E 186–38 4.0s,4.0
JMA II 05 19 07 23.3–.20 25.99N 140.83E 122 3.7,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=11.0km az=174.4.
IDC Error ellipse: s-maj=133.7km s-min=22.8km az=83.0.
JMA Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
ISC II 06 05 08 38.2–.81 26.92N–.09 144.13E–.08 10 3.6b 18 2-148
ISCJB II 06 05 08 36.9–.66 27.02N–.07 144.15E–.05 10 3.6b **¶17191777**
IDC II 06 05 08 36.9–.77 26.88N 144.26E 0 3.9,3.8
JMA II 06 05 08 37.2–.20 27.01N 144.09E 5 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.5km az=167.9.
IDC Error ellipse: s-maj=22.3km s-min=20.1km az=117.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC II 06 05 49 31.4–1.2 26.44N 143.79E 0 3.5,3.3
¶17191778
IDC Error ellipse: s-maj=29.2km s-min=21.6km az=60.0.
JMA II 06 06 06 06.9–.10 26.38N 143.04E 18 3.8
NIED II 06 06 06 00 26.40N 143.00E 5 3.8W **¶600526127**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ29.00000°,λ-121.00000°. NP2:ϕ_s154.00000°,δ66.00000°,λ-74.00000°. $M_0$5.17000×10^{14}
ISC II 06 10 25 46.2–.38 28.94N–.04 142.48E–.05 27 4.7b,4.0s 268 2-151
NIED II 06 10 25 00 28.90N 142.30E 5 4.6W,4.0s **¶16007696**
BJI II 06 10 25 38.8 28.72N 142.63E 10 5.0b,4.7b
MOS II 06 10 25 41.7–.99 28.88N 142.41E 13 4.9b,4.7b
IDC II 06 10 25 41.7–.53 28.89N 142.45E 0 4.6,4.5
NEIC II 06 10 25 43.6–.19 28.88N 142.45E 10 4.7b,4.5
JMA II 06 10 25 44.9–.20 28.87N 142.32E 39 4.6,4.5
ISCJB II 06 10 25 44.8–.21 29.01N–.02 142.34E–.03 27 4.7b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ28.00000°,λ92.00000°. NP2:ϕ_s348.00000°,δ62.00000°,λ89.00000°. $M_0$9.22000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC II 06 16 51 00.8–2.9 27.1N–.20 144.5E–.60 10 3.4b 7 11-55
ISCJB II 06 16 50 58.0–3.0 27.1N–.20 144.7E–.70 10 3.5b **¶17191803**
IDC II 06 16 51 00.1–5.8 26.96N 144.31E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=101.3km s-min=15.7km az=161.6.
IDC Error ellipse: s-maj=216.9km s-min=21.1km az=73.0.
IDC II 06 17 24 57.4–2.6 26.54N 144.08E 0 3.6,3.4
¶17191808
IDC Error ellipse: s-maj=75.7km s-min=22.7km az=65.0.
ISC II 06 17 49 04.3–1.0 27.39N–.08 143.4E–.10 35 3.6b 17 1-78
IDC II 06 17 48 58.7–1.2 27.29N 143.51E 0 3.8,3.6 **¶17191811**
JMA II 06 17 49 00.7–.30 27.47N 143.46E 30 3.0,3.6
ISCJB II 06 17 49 02.4–.87 27.49N–.06 143.38E–.09 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 21 02 02.2–1.1 26.7N–.20 143.9E–.10 10 3.6b 8 2-80
ISCJB II 06 21 02 00.1–1.1 26.7N–.20 144.1E–.10 10 3.6b **¶17191829**
IDC II 06 21 02 00.6–1.2 26.63N 143.98E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=13.0km az=13.0.
IDC Error ellipse: s-maj=30.8km s-min=22.2km az=32.0.
ISC II 06 21 44 42.0–.76 27.23N–.06 143.48E–.08 35 4.0b 38 1-149
NIED II 06 21 44 00 27.30N 143.50E 17 4.0W **¶16342589**
IDC II 06 21 44 36.5–.73 27.14N 143.60E 0 4.3s,4.2
NEIC II 06 21 44 38.0–.40 27.13N 143.58E 10 4.6b,4.2
ISCJB II 06 21 44 40.0–.60 27.34N–.04 143.53E–.05 33 4.4s,4.1b
JMA II 06 21 44 40.6–.10 27.32N 143.48E 62 4.0,4.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ63.00000°,λ-177.00000°. NP2:ϕ_s207.00000°,δ88.00000°,λ-27.00000°. $M_0$9.63000×10^{14}
IDC Error ellipse: s-maj=21.6km s-min=17.1km az=73.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.9km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.7km az=25.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC II 06 22 44 24.8–15 26.42N 143.56E 0 3.7,3.5
¶17191835
IDC Error ellipse: s-maj=565.3km s-min=31.6km az=72.0.
ISC II 07 06 10 16.4–.79 26.94N–.09 143.87E–.07 10 3.7b 24 2-149
IDC II 07 06 10 14.9–.73 26.82N 143.96E 0 3.9,3.9 **¶17191850**
JMA II 07 06 10 18.6–.50 27.17N 143.65E 1 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=19.1km az=109.0.
JMA Error ellipse: s-maj=5.6km s-min=3.0km az=-1.0.
JMA II 07 12 54 26.5–.30 28.37N 140.02E 388 3.6
¶600526613
JMA Error ellipse: s-maj=3.3km s-min=6.8km az=-1.0.
ISC II 07 14 35 07.1–2.6 27.2N–.20 143.5E–.20 10 3.5b 7 1-54
JMA II 07 14 35 05.0–.10 27.26N 143.62E 8 3.8 **¶17191861**
IDC II 07 14 35 08.1–4.6 26.30N 142.24E 0 3.7L,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=186.3km s-min=23.2km az=75.0.
ISC II 07 15 19 05.2–1.2 27.02N–.04 143.72E–.04 12–6 4.9b,4.0s 398 1-150
NIED II 07 15 19 00 27.10N 143.90E 5 4.6W,4.0s **¶16009150**
IDC II 07 15 19 02.7–.42 26.88N 143.83E 0 4.7,4.6
BJI II 07 15 19 03.5 26.82N 143.39E 5 4.9b,4.6b
ISCJB II 07 15 19 03.2–.15 26.96N–.02 143.73E–.02 10 4.8b,3.9s
MOS II 07 15 19 03.3–.93 26.81N 143.79E 15 5.0b,3.9s
NEIC II 07 15 19 03.5–2.9 26.86N 143.78E 5–17 4.9b,3.9s
JMA II 07 15 19 05.1–.10 27.10N 143.86E 65 4.7,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ27.00000°,λ-52.00000°. NP2:ϕ_s287.00000°,δ69.00000°,λ-107.00000°. $M_0$9.72000×10^{15}
IDC Error ellipse: s-maj=13.1km s-min=11.0km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.9km az=158.4.
MOS Error ellipse: s-maj=8.3km s-min=5.0km az=111.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 07 15 32 29.9–.76 27.7N–.10 140.0E–.10 479 3.3b 25 2-82
ISCJB II 07 15 32 29.3–.43 27.71N–.07 139.87E–.08 479 3.3b **¶17191863**
IDC II 07 15 32 29.8–.56 27.71N 140.03E 480–9 3.9,3.1
JMA II 07 15 32 31.4–.30 27.98N 140.64E 492–4 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.6km az=142.6.
IDC Error ellipse: s-maj=22.0km s-min=13.8km az=75.0.
JMA Error ellipse: s-maj=3.3km s-min=4.9km az=-1.0.
ISC II 07 15 59 17.7–.95 27.0N–.10 143.86E–.09 35 3.8b 25 1-79
IDC II 07 15 59 12.4–.96 26.99N 144.06E 0 3.9,3.8b **¶16026102**
NEIC II 07 15 59 14.0–.69 27.01N 144.03E 10 4.4b,3.8b
ISCJB II 07 15 59 15.8–.64 27.08N–.07 143.91E–.05 33 3.8b,3.4s
JMA II 07 15 59 17.0–.10 27.09N 143.79E 69 3.3,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=20.6km az=71.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=11.2km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.4km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 07 19 05 07.8–.75 27.18N–.08 143.76E–.08 35 4.1b 53 1-149
NIED II 07 19 05 00 27.00N 143.60E 8 3.9W **¶16328770**
IDC II 07 19 05 02.0–.66 27.01N 143.89E 0 4.2,4.0
NEIC II 07 19 05 03.5–.34 27.02N 143.85E 10 4.4b,4.0
MOS II 07 19 05 04.8–1.1 27.09N 143.82E 29 4.4b,4.0
ISCJB II 07 19 05 05.6–.49 27.17N–.05 143.78E–.05 33 4.1b,3.1s
JMA II 07 19 05 05.8–.20 27.05N 143.64E 98 3.6,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ36.00000°,λ-132.00000°. NP2:ϕ_s168.00000°,δ64.00000°,λ-64.00000°. $M_0$6.89000×10^{14}
IDC Error ellipse: s-maj=18.6km s-min=15.5km az=103.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.7km az=73.0.
MOS Error ellipse: s-maj=19.1km s-min=8.2km az=109.3.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.0km az=151.9.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
JMA II 07 19 35 18.7 27.20N 143.74E 32–5 3.6
NIED II 07 19 35 00 27.20N 143.70E 5 3.5W **¶600526729**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ25.00000°,λ-93.00000°. NP2:ϕ_s169.00000°,δ65.00000°,λ-89.00000°. $M_0$2.19000×10^{14}
ISC II 07 22 18 45.1–.56 26.91N–.07 143.89E–.06 10 4.3b 53 2-79
ISCJB II 07 22 18 43.2–.34 26.97N–.04 143.95E–.04 10 4.4b **¶16342591**
IDC II 07 22 18 44.0–.84 26.90N 143.95E 0 4.0,3.8
NEIC II 07 22 18 45.2–.31 26.92N 143.91E 10 4.6b,3.8
JMA II 07 22 18 46.4–.30 27.26N 143.81E 17 4.0,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=8.6.
IDC Error ellipse: s-maj=21.6km s-min=18.2km az=70.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=74.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC II 08 05 36 55.0–.61 26.65N–.09 144.04E–.08 10 4.4b 79 2-148
ISCJB II 08 05 36 53.5–.43 26.71N–.06 144.10E–.07 10 4.3b **¶16168816**
MOS II 08 05 36 53.9–1.2 26.72N 144.07E 13 4.6b
IDC II 08 05 36 53.5–.63 26.65N 144.10E 0 4.3,4.2
NEIC II 08 05 36 55.1–.35 26.69N 144.10E 10 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=7.8km az=146.3.
MOS Error ellipse: s-maj=14.8km s-min=6.5km az=118.0.
IDC Error ellipse: s-maj=16.7km s-min=14.8km az=32.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.5km az=62.0.
ISC II 08 05 37 20.9–.60 27.17N–.08 143.42E–.06 10 4.5b 74 1-149
IDC II 08 05 37 18.7–.66 27.02N 143.43E 0 4.4,4.3 **¶16358550**
MOS II 08 05 37 19.1–.89 27.05N 143.43E 14 4.8b,4.3
NEIC II 08 05 37 20.3–.31 27.01N 143.43E 10 4.7b,4.3
JMA II 08 05 37 22.9–.10 27.43N 143.32E 18–4 5.1,4.3
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.5km az=178.0.
MOS Error ellipse: s-maj=17.6km s-min=8.4km az=121.8.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.7km az=197.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 08 15 18 20.3–.49 27.36N–.05 143.24E–.06 27 4.4b,3.9s 124 1-149
NIED II 08 15 18 00 27.40N 142.90E 8 4.0W,3.9s **¶16016432**
IDC II 08 15 18 16.2–.57 27.33N 143.22E 0 4.3,4.2
MOS II 08 15 18 16.2–.90 27.33N 143.23E 13 4.5b,4.2
NEIC II 08 15 18 17.7–.27 27.34N 143.24E 10 4.6b,4.2
ISCJB II 08 15 18 18.3–.36 27.43N–.03 143.28E–.05 27 4.4b,4.0s
BJI II 08 15 18 20.4 27.53N 142.52E 10 5.0b,4.7s
JMA II 08 15 18 21.2–.10 27.44N 142.92E 84 3.9,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ45.00000°,λ162.00000°. NP2:ϕ_s29.00000°,δ78.00000°,λ47.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.5km az=97.0.
MOS Error ellipse: s-maj=14.2km s-min=6.1km az=116.2.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.1km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.0km az=30.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 08 15 50 16.0–.42 27.42N–.04 143.16E–.06 27 4.7b,4.3s 200 1-149
IDC II 08 15 50 11.5–.48 27.36N 143.20E 0 4.6,4.5 **¶16016435**
MOS II 08 15 50 13.5–1.0 27.37N 143.25E 27 5.0b,4.5
NEIC II 08 15 50 13.0–.22 27.35N 143.19E 10 5.0b,4.5
BJI II 08 15 50 13.1 27.40N 142.79E 10 5.0b,4.6b
ISCJB II 08 15 50 14.1–.29 27.48N–.02 143.18E–.04 27 4.7b,4.3s
JMA II 08 15 50 15.0 27.40N 143.13E 74 4.4,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=12.2km az=92.0.
MOS Error ellipse: s-maj=13.8km s-min=5.9km az=116.6.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.5km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.3km az=13.9.
ISC II 08 15 55 04.5–.81 27.42N–.07 143.13E–.09 27 4.3b 41 1-86
IDC II 08 15 55 00.2–.86 27.33N 143.19E 0 4.1,4.0 **¶16030476**
ISCJB II 08 15 55 02.4–.57 27.45N–.04 143.25E–.07 27 4.2b,4.0
NEIC II 08 15 55 03.2–1.9 27.36N 143.16E 19–10 4.6b,4.0
JMA II 08 15 55 03.7 27.40N 143.21E 60 3.4,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=16.1km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.3km az=28.7.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=7.7km az=86.0.

JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 08 16 42 44.1–.31 27.39N–.03 143.12E–.04 33–1 5.4b,5.1s 952 1-151
NIED II 08 16 42 00 27.40N 143.40E 8 5.4W,5.1s ¶16012718
IDC II 08 16 42 38.9–.43 27.35N 143.19E 0 5.0,5.0
JMA II 08 16 42 39.8–.10 27.42N 143.45E 51 5.2,5.0
NEIC II 08 16 42 40.6–.11 27.30N 143.16E 10 5.4b,5.1s
GCMT II 08 16 42 40.6–.10 27.33N 143.26E 12 5.3W,5.1s
MOS II 08 16 42 41.7–1.1 27.40N 143.07E 26 5.6b,5.2s
BJI II 08 16 42 43.6 27.44N 142.84E 37 5.4b,5.3s
ISCJB II 08 16 42 45.1–.11 27.48N–.02 142.97E–.02 49 5.3b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ30.00000°,λ-61.00000°. NP2:ϕ_s326.00000°,δ64.00000°,λ-106.00000°. $M_0$1.28000×10^{17}
JMA Event type fe.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c146; s134,c251;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.01 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$1.21±.01; $M_{r\theta}$0.24±.04; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s341.00000°,δ50.00000°,λ-102.00000°. NP2:ϕ_s179.00000°,δ41.00000°,λ-76.00000°. Principal axes: T 1.2670,Plg5.0000°,Azm79.0000° ; N 0.0470,Plg9.0000°,Azm348.0000°; P -1.3110,Plg80.0000°,Azm197.0000° $M_0$1.28900×10^{17}
ISCJB Event type fe.
ISC II 08 16 55 27.3–1.5 27.3N–.20 143.3E–.10 10 3.3b 7 1-54
ISCJB II 08 16 55 24.9–1.2 27.4N–.10 143.4E–.10 10 3.6b ¶17191901
IDC II 08 16 55 25.8–1.5 27.33N 143.26E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=14.8km az=164.9.
IDC Error ellipse: s-maj=27.4km s-min=22.7km az=74.0.
ISC II 08 17 14 00.8–.59 27.35N–.03 143.20E–.04 17–3 5.0b,4.2s 550 1-151
ISCJB II 08 17 13 57.7–1.1 27.44N–.02 143.03E–.03 1–6 5.0b,4.2s ¶16012719
IDC II 08 17 13 58.3–.39 27.33N 143.21E 0 4.8,4.7
NEIC II 08 17 13 59.5–2.2 27.30N 143.12E 7–13 5.0b,4.7
GCMT II 08 17 13 59.5–.50 27.39N 143.35E 23–1 4.9W,4.7
MOS II 08 17 13 59.1–.97 27.27N 143.09E 17 5.2b,4.1s
BJI II 08 17 14 00.2 27.46N 142.76E 10 5.3b,5.0b
JMA II 08 17 14 01.8–.10 27.41N 143.06E 82 4.5,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.3km az=30.1.
IDC Error ellipse: s-maj=11.9km s-min=10.1km az=128.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.7km az=123.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c26; s67,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.52±.21 $M_{\theta\theta}$0.80±.11; $M_{\phi\phi}$1.72±.12; $M_{r\theta}$0.39±.15; $M_{\theta\phi}$-0.56±.05; $M_{\phi r}$-0.79±.13; Best double couple: NP1:ϕ_s334.00000°,δ56.00000°,λ-90.00000°. NP2:ϕ_s155.00000°,δ34.00000°,λ-90.00000°. Principal axes: T 2.1510,Plg11.0000°,Azm65.0000°; N 0.5350,Plg0.0000°,Azm335.0000° ; P -2.6860,Plg79.0000°,Azm244.0000° $M_0$2.41800×10^{16}
MOS Error ellipse: s-maj=8.0km s-min=4.2km az=112.5.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC II 08 17 48 33.2–1.0 27.52N–.06 143.4E–.10 35 4.1b 45 1-78
NIED II 08 17 48 00 27.50N 143.20E 8 3.8W ¶16328782
IDC II 08 17 48 29.7–1.2 27.32N 143.25E 0 4.1L,3.9
NEIC II 08 17 48 31.8–2.7 27.38N 143.22E 14–14 4.3b,3.9
ISCJB II 08 17 48 32.4–.68 27.62N–.03 143.24E–.08 35 3.9b,3.9
JMA II 08 17 48 32.5 27.48N 143.18E 76 4.3,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ36.00000°,λ-141.00000°. NP2:ϕ_s193.00000°,δ68.00000°,λ-61.00000°. $M_0$5.31000×10^{14}
IDC Error ellipse: s-maj=24.6km s-min=18.8km az=95.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=8.7km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=3.8km az=11.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 09 00 37 26.8–1.6 27.2N–.10 143.6E–.10 35 3.3b 11 1-51
IDC II 09 00 37 22.3–1.9 27.02N 143.57E 0 3.9L,3.6 ¶17191922
ISCJB II 09 00 37 24.3–1.4 27.26N–.09 143.7E–.10 33 3.3b,3.6
JMA II 09 00 37 24.0–.10 27.26N 143.74E 51 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=25.8km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=9.0km az=40.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 09 11 29 12.7–.73 27.36N–.04 143.23E–.05 10–3 4.8b,3.9s 246 1-149
NIED II 09 11 29 00 27.40N 143.30E 5 4.3W,3.9s ¶16014961
BJI II 09 11 29 09.4 27.18N 143.12E 6 5.0b,4.7b
ISCJB II 09 11 29 10.9–.95 27.41N–.03 143.29E–.04 11–5 4.8b,3.9s
IDC II 09 11 29 11.1–.45 27.31N 143.19E 0 4.6,4.5
NEIC II 09 11 29 12.5–.21 27.29N 143.26E 10 5.0b,4.5
MOS II 09 11 29 12.6–1.1 27.26N 143.13E 21 5.1b,4.5
JMA II 09 11 29 13.7 27.41N 143.28E 58 4.1,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ35.00000°,λ-4.00000°. NP2:ϕ_s295.00000°,δ88.00000°,λ-125.00000°. $M_0$3.15000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=22.9.
IDC Error ellipse: s-maj=13.1km s-min=12.1km az=119.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.9km az=85.0.
MOS Error ellipse: s-maj=12.7km s-min=5.8km az=119.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 09 16 01 11.2–1.3 27.3N–.10 143.3E–.10 10 3.5b 10 1-78
ISCJB II 09 16 01 09.0–1.0 27.3N–.10 143.4E–.10 10 3.6b ¶17191951
IDC II 09 16 01 09.9–1.4 27.26N 143.25E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=12.8km az=142.2.
IDC Error ellipse: s-maj=25.2km s-min=22.5km az=91.0.
ISC II 09 18 25 36.1–.93 26.9N–.10 143.77E–.08 10 3.6b 12 1-87
ISCJB II 09 18 25 34.3–.77 26.7N–.10 143.87E–.09 10 3.6b ¶17191956
IDC II 09 18 25 34.5–.93 26.73N 143.82E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=11.1km az=17.9.
IDC Error ellipse: s-maj=23.3km s-min=19.9km az=23.0.
ISC II 09 20 06 29.0–.50 27.40N–.05 143.19E–.06 27 4.2b,4.0s 99 1-149
IDC II 09 20 06 24.6–.54 27.31N 143.20E 0 4.2,4.1 ¶16168824
MOS II 09 20 06 25.5–1.1 27.30N 143.24E 18 4.6b,4.1
NEIC II 09 20 06 26.4–1.8 27.31N 143.24E 12–10 4.7b,4.1
ISCJB II 09 20 06 27.7–.41 27.52N–.03 143.16E–.05 27 4.2b,3.8s
JMA II 09 20 06 28.2–.10 27.40N 143.16E 66 3.6,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.7km az=114.0.
MOS Error ellipse: s-maj=14.4km s-min=6.6km az=114.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.6km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.8km az=24.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 10 03 04 49.3–.64 27.22N–.04 143.40E–.04 10–3 4.8b,4.0s 733 1-164
BJI II 10 03 04 45.9 27.07N 143.40E 6 5.0b,4.7b ¶16018371
MOS II 10 03 04 47.9–.83 27.14N 143.40E 13 5.1b,4.7b
IDC II 10 03 04 47.3–.44 27.16N 143.45E 0 4.7,4.7
NEIC II 10 03 04 49.2–.13 27.13N 143.38E 10 5.0b,4.7
ISCJB II 10 03 04 50.2–.79 27.39N–.02 143.35E–.02 20–5 4.8b,3.9s
JMA II 10 03 04 51.5–.40 27.28N 143.35E 60 4.7,3.9s
ISC Event type se.
MOS Error ellipse: s-maj=8.3km s-min=4.5km az=104.8.
IDC Error ellipse: s-maj=13.3km s-min=12.3km az=110.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=175.2.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
JMA II 10 10 21 25.5–.40 26.92N 144.10E 6 3.6
¶600527741
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
IDC II 10 17 00 11.8–2.0 26.61N 143.89E 0 3.6,3.4
¶17192024
IDC Error ellipse: s-maj=52.2km s-min=21.6km az=56.0.
ISC II 10 20 29 58.8–1.2 27.1N–.10 143.49E–.09 10 4.3b 11 1-74
ISCJB II 10 20 29 56.7–.89 27.17N–.10 143.55E–.08 10 4.0b ¶16328800
IDC II 10 20 29 56.6–1.5 27.20N 143.66E 0 4.0,3.9b
NEIC II 10 20 29 58.8–.96 27.14N 143.48E 10 4.4b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=9.7km az=179.4.
IDC Error ellipse: s-maj=38.8km s-min=23.7km az=80.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=13.8km az=69.0.
ISC II 11 06 41 09.5–1.1 27.12N–.08 143.47E–.10 35 3.9b 25 1-78
NIED II 11 06 41 00 27.10N 143.50E 5 3.7W ¶16160032
IDC II 11 06 41 03.3–1.3 26.89N 143.56E 0 4.0,3.8
NEIC II 11 06 41 05.7–.95 27.06N 143.49E 10 4.3b,3.8
JMA II 11 06 41 06.4 27.10N 143.52E 80 4.3,3.8
ISCJB II 11 06 41 07.9–.87 27.28N–.05 143.49E–.07 33 3.9b,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ51.00000°,λ-27.00000°. NP2:ϕ_s109.00000°,δ69.00000°,λ-137.00000°. $M_0$4.04000×10^{14}
NEIC Event type se.
ISCJB Event type se.
IDC II 11 07 09 22.6–7.0 26.78N 143.85E 0 3.8,3.5
¶17192056
IDC Error ellipse: s-maj=275.5km s-min=26.6km az=74.0.
ISC II 11 16 22 03.3–.62 27.39N–.06 143.21E–.08 35 4.0b 56 1-95
IDC II 11 16 21 57.6–.62 27.23N 143.37E 0 4.1,4.0 ¶16342606
NEIC II 11 16 21 59.2–.38 27.27N 143.34E 10 4.5b,4.0
ISCJB II 11 16 22 01.7–.50 27.45N–.04 143.22E–.06 33 3.9b,2.8s
JMA II 11 16 22 03.3–.10 27.37N 143.12E 59 3.9b,2.8s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=15.3km az=96.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.7km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.0km az=31.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 11 20 31 39.1–.72 28.3N–.10 139.9E–.10 450 3.4b 20 2-84
ISCJB II 11 20 31 38.2–.52 28.28N–.07 139.8E–.10 450 3.4b ¶17192087
IDC II 11 20 31 38.3–.74 28.22N 139.67E 436–12 3.8,3.2
JMA II 11 20 31 39.3–.30 28.43N 140.42E 468–4 3.5,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=7.1km az=150.2.
IDC Error ellipse: s-maj=31.1km s-min=16.4km az=66.0.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
ISC II 11 23 59 17.7–.47 27.44N–.03 143.04E–.04 12–2 5.0b,4.9s 532 1-150
NIED II 11 23 59 00 27.50N 143.00E 8 4.9W,4.9s ¶601501262
BJI II 11 23 59 14.8 27.23N 143.17E 20 5.3b,5.0b
IDC II 11 23 59 15.2–.41 27.34N 143.16E 0 4.8,4.8
ISCJB II 11 23 59 15.9–1.1 27.49N–.03 142.96E–.03 6–6 5.1s,5.0b
NEIC II 11 23 59 17.6–.17 27.30N 143.06E 10 5.1b,5.0b
MOS II 11 23 59 17.6–.94 27.32N 143.03E 24 5.6s,5.2b
JMA II 11 23 59 19.4 27.52N 143.03E 69 4.9,5.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ39.00000°,λ148.00000°. NP2:ϕ_s32.00000°,δ70.00000°,λ56.00000°. $M_0$2.68000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=10.5km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.9km az=177.9.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=129.0.
MOS Error ellipse: s-maj=8.6km s-min=4.4km az=114.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 12 00 05 40.3–.59 27.49N–.04 143.10E–.05 13–3 4.5b,4.5s 179 1-149
NIED II 12 00 05 00 27.60N 143.20E 5 4.3W,4.5s ¶16021300
BJI II 12 00 05 36.2 27.20N 143.18E 9 5.3b,4.9s
IDC II 12 00 05 37.6–.56 27.32N 143.19E 0 4.4,4.3
ISCJB II 12 00 05 38.1–1.2 27.49N–.03 143.21E–.04 11–7 4.5b,4.5s
NEIC II 12 00 05 40.6–2.4 27.37N 143.16E 17–14 5.0b,4.5s
MOS II 12 00 05 40.9–.97 27.34N 143.17E 33 4.8b,4.5s
JMA II 12 00 05 41.1 27.56N 143.18E 43–3 4.3,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ58.00000°,λ-155.00000°. NP2:ϕ_s196.00000°,δ69.00000°,λ-34.00000°. $M_0$3.03000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.9km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.5km az=34.3.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=104.0.
MOS Error ellipse: s-maj=13.3km s-min=6.1km az=112.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 13 21 25 28.1–1.7 27.3N–.10 143.6E–.10 35 3.4b 23 1-59
NIED II 13 21 25 00 27.00N 143.50E 14 3.7W ¶17192174
IDC II 13 21 25 20.3–1.3 26.84N 143.68E 0 3.6,3.5
ISCJB II 13 21 25 25.8–1.3 27.34N–.08 143.63E–.10 33 3.4b,3.5
JMA II 13 21 25 25.6–.20 27.03N 143.48E 96 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ26.00000°,λ-14.00000°. NP2:ϕ_s100.00000°,δ84.00000°,λ-115.00000°. $M_0$3.75000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=23.3km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=6.7km az=41.4.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC II 14 09 24 56.4–1.4 26.97N 143.86E 0 3.7,3.7L
¶17192234
IDC Error ellipse: s-maj=47.8km s-min=29.1km az=88.0.
ISC II 15 00 54 06.4–.72 26.91N–.09 143.63E–.06 10 4.0b 30 1-149
ISCJB II 15 00 54 04.3–.61 26.97N–.07 143.77E–.05 10 4.1b ¶16398220
IDC II 15 00 54 05.2–.92 26.83N 143.62E 0 4.0,3.9
NEIC II 15 00 54 06.4–.52 26.75N 143.64E 10 4.6b,3.9
JMA II 15 00 54 07.1–.10 27.24N 143.69E 22 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.1km az=169.4.
IDC Error ellipse: s-maj=22.9km s-min=18.0km az=16.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.9km az=64.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC II 15 01 51 05.0–2.6 26.89N 143.82E 0 3.9,3.8L
¶17192276
IDC Error ellipse: s-maj=57.8km s-min=28.1km az=64.0.
ISC II 15 17 38 37.1–.76 27.44N–.07 143.23E–.08 27 4.2b 55 1-149
NIED II 15 17 38 00 27.50N 143.20E 5 3.9W ¶16339744
IDC II 15 17 38 33.1–.82 27.30N 143.25E 0 4.1,4.0
ISCJB II 15 17 38 35.3–.58 27.52N–.04 143.28E–.06 27 4.1b,4.0
NEIC II 15 17 38 36.9–1.9 27.31N 143.13E 24–11 4.4b,4.0
JMA II 15 17 38 37.1–.10 27.49N 143.15E 61 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ60.00000°,λ-2.00000°. NP2:ϕ_s291.00000°,δ88.00000°,λ-150.00000°. $M_0$6.72000×10^{14}
IDC Error ellipse: s-maj=18.6km s-min=16.4km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.4km az=28.5.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.0km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 16 04 03 09.4–.84 26.9N–.10 143.80E–.08 10 3.9b 23 1-149
ISCJB II 16 04 03 07.6–.60 26.88N–.09 143.86E–.06 10 4.0b ¶16136348
IDC II 16 04 03 08.0–.75 26.87N 143.94E 0 4.1,3.9
NEIC II 16 04 03 09.6–.58 26.91N 143.85E 10 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.5km az=7.3.
IDC Error ellipse: s-maj=20.7km s-min=18.1km az=93.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=11.3km az=68.0.
IDC II 17 01 57 12.6–2.9 28.13N 141.64E 0 3.7,3.5
¶17192397
IDC Error ellipse: s-maj=128.2km s-min=32.2km az=76.0.
IDC II 17 15 41 57.1–6.1 26.78N 141.27E 0 3.7,3.7b
¶17192429
IDC Error ellipse: s-maj=147.0km s-min=85.7km az=100.0.
IDC II 17 17 01 01.5–1.5 26.09N 142.09E 0 3.5,3.3
¶17192434
IDC Error ellipse: s-maj=71.4km s-min=16.8km az=94.0.
ISC II 18 01 21 52.8–.77 26.70N–.06 143.52E–.05 14–4 4.5b,3.7s 209 1-149
NIED II 18 01 21 00 26.90N 143.80E 5 4.3W,3.7s ¶16032017
IDC II 18 01 21 49.0–.59 26.53N 143.69E 0 4.4,4.3

ISCJB II 18 01 21 49.9–1.6 26.67N–.04 143.57E–.04 8–9 4.5b,3.6s
NEIC II 18 01 21 51.0–4.1 26.55N 143.54E 6–25 4.7b,3.6s
JMA II 18 01 21 51.4–.10 26.88N 143.84E 31 4.2,3.6s
BJI II 18 01 21 51.7 26.63N 143.14E 5 4.9b,4.5b
MOS II 18 01 21 54.0–1.0 26.62N 143.56E 39 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ27.00000°,λ-64.00000°. NP2:ϕ_s325.00000°,δ66.00000°,λ-103.00000°. M_o2.96000×10^{15}
IDC Error ellipse: s-maj=15.9km s-min=14.0km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=170.7.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.4km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=10.4km s-min=5.5km az=115.6.
ISC II 18 02 44 47.7–.53 27.66N–.07 140.2E–.10 500 3.6b 54 2-152
ISCJB II 18 02 44 45.7–.43 27.68N–.05 140.37E–.10 500 3.5b **¶16168871**
JMA II 18 02 44 46.9–.10 27.87N 140.65E 492 4.2
IDC II 18 02 44 46.5–1.0 27.63N 139.87E 476–10 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.3km az=165.6.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=12.6km az=67.0.
ISC II 18 08 03 16.0–1.1 26.67N–.04 143.70E–.04 12–6 4.8b,4.0s 321 1-149
NIED II 18 08 03 00 27.00N 143.70E 5 4.6W,4.0s **¶16031877**
ISCJB II 18 08 03 12.3–1.1 26.59N–.03 143.73E–.03 1–6 4.8b,4.0s
IDC II 18 08 03 13.8–.44 26.62N 143.72E 0 4.6,4.5
BJI II 18 08 03 14.1 26.58N 143.49E 10 5.0b,4.7b
NEIC II 18 08 03 15.4–.15 26.57N 143.70E 10 4.9b,4.7b
JMA II 18 08 03 15.7–.30 26.96N 143.72E 4 4.4,4.7b
MOS II 18 08 03 16.8–.77 26.53N 143.70E 34 5.0b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ22.00000°,λ-52.00000°. NP2:ϕ_s311.00000°,δ73.00000°,λ-104.00000°. M_o8.43000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=4.2km az=155.9.
IDC Error ellipse: s-maj=12.5km s-min=11.5km az=103.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.1km az=141.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=5.4km az=111.2.
ISC II 18 15 35 10.4–.81 26.91N–.08 143.67E–.07 35 4.2s,3.9b 45 1-149
NIED II 18 15 35 00 26.90N 143.80E 5 3.9W,3.9b **¶16398493**
IDC II 18 15 35 03.8–.73 26.60N 143.74E 0 4.1,3.9
NEIC II 18 15 35 05.4–.46 26.63N 143.72E 10 4.3b,3.9
JMA II 18 15 35 07.0–.10 26.91N 143.77E 41 4.1,3.9
ISCJB II 18 15 35 08.9–.62 27.04N–.05 143.69E–.05 33 3.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ46.00000°,λ-122.00000°. NP2:ϕ_s178.00000°,δ52.00000°,λ-62.00000°. M_o9.11000×10^{14}
NEIC Event type se.
ISCJB Event type se.
ISC II 18 20 28 34.9–1.4 27.7N–.10 143.6E–.10 10 4.0b 12 1-79
IDC II 18 20 28 32.9–1.7 27.61N 143.87E 0 4.0,3.8 **¶16362989**
ISCJB II 18 20 28 33.1–.95 27.6N–.10 143.74E–.10 10 4.0b,3.4s
NEIC II 18 20 28 34.6–1.3 27.63N 143.73E 10 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=44.0km s-min=22.5km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=9.3km az=143.6.
NEIC Event type se. Error ellipse: s-maj=31.2km s-min=15.4km az=86.0.
ISC II 19 06 45 47.8–1.3 26.4N–.20 143.5E–.20 10 4.5s,3.8b 8 1-87
ISCJB II 19 06 45 45.3–1.1 26.5N–.20 143.7E–.20 10 4.3s,3.7b **¶17192522**
IDC II 19 06 45 46.0–1.5 26.46N 143.60E 0 4.2s,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.8km s-min=13.4km az=33.1.
IDC Error ellipse: s-maj=46.3km s-min=24.4km az=54.0.
ISC II 19 11 06 56.0–.93 27.00N–.09 143.87E–.09 35 3.7b 19 2-79
NIED II 19 11 06 00 27.20N 143.90E 5 3.6W **¶17192531**
IDC II 19 11 06 50.4–.92 26.77N 143.94E 0 3.9,3.7
JMA II 19 11 06 53.6–.20 27.19N 143.91E 27 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ47.00000°,λ-66.00000°. NP2:ϕ_s319.00000°,δ48.00000°,λ-113.00000°. M_o2.49000×10^{14}
IDC Error ellipse: s-maj=24.4km s-min=19.7km az=76.0.
JMA Error ellipse: s-maj=4.4km s-min=2.0km az=-1.0.
ISC II 19 12 42 47.6–.92 26.8N–.10 143.95E–.06 10 3.8b 18 2-83
NIED II 19 12 42 00 27.20N 144.10E 8 3.6W **¶17192534**
JMA II 19 12 42 44.7–.20 27.18N 144.08E 0 3.5
ISCJB II 19 12 42 45.9–.71 26.90N–.09 144.06E–.06 10 3.8s,3.7b
IDC II 19 12 42 46.0–.79 26.79N 144.00E 0 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ43.00000°,λ-137.00000°. NP2:ϕ_s187.00000°,δ63.00000°,λ-56.00000°. M_o3.12000×10^{14}
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=7.7km az=174.3.
IDC Error ellipse: s-maj=21.0km s-min=19.5km az=69.0.
ISC II 19 14 22 02.8–.88 26.66N–.05 143.71E–.06 30–5 4.5b,3.7s 150 1-149
IDC II 19 14 21 58.2–.49 26.57N 143.71E 0 4.4,4.3 **¶16032959**
BJI II 19 14 21 58.0 26.22N 144.16E 39 5.0b,4.7s
NEIC II 19 14 21 59.1–.34 26.56N 143.63E 10 4.8b,4.7s
NIED II 19 14 22 00 26.90N 143.80E 5 4.3W,4.7s
JMA II 19 14 22 01.5 26.89N 143.81E 48 4.1,4.7s
MOS II 19 14 22 01.5–1.2 26.50N 143.65E 36 4.8b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.7km az=87.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.1km az=78.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ45.00000°,λ-123.00000°. NP2:ϕ_s180.00000°,δ54.00000°,λ-62.00000°. M_o2.90000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=13.2km s-min=6.6km az=114.8.
IDC II 20 15 02 39.5–1.0 26.55N 141.64E 0 3.8,3.6
¶17192590
IDC Error ellipse: s-maj=28.1km s-min=15.2km az=126.0.
ISC II 21 01 02 01.0–.96 26.8N–.20 143.8E–.10 10 3.7b 10 1-83
ISCJB II 21 01 01 59.4–.75 26.7N–.10 143.85E–.09 10 3.5b,3.2s **¶17192611**
IDC II 21 01 01 59.5–.87 26.75N 143.85E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=10.8km az=15.3.
IDC Error ellipse: s-maj=24.3km s-min=21.3km az=60.0.
IDC II 21 03 00 38.5–2.3 27.31N 143.64E 0 3.6,3.5L
¶17192613
IDC Error ellipse: s-maj=45.4km s-min=28.4km az=81.0.
ISC II 21 07 57 12.9–.71 27.79N–.06 143.23E–.09 22 3.7b 27 1-149
IDC II 21 07 57 08.7–.70 27.61N 143.47E 0 3.9,3.8 **¶17192623**
ISCJB II 21 07 57 11.6–.59 27.93N–.04 143.15E–.08 22 3.7b,3.8
JMA II 21 07 57 12.2–.20 27.80N 143.15E 89 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=19.6km s-min=16.9km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.1km az=19.5.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
IDC II 21 10 38 14.8–2.1 27.48N 143.55E 0 3.7,3.5L
¶17192628
IDC Error ellipse: s-maj=34.0km s-min=29.5km az=110.0.
JMA II 21 14 52 50.8–.10 27.22N 143.66E 6–4 4.2
¶600531347
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 21 21 25 21.5–1.3 27.1N–.20 143.63E–.09 10 3.4b 7 1-72
ISCJB II 21 21 25 19.5–1.2 27.1N–.10 143.8E–.10 10 3.3b **¶17192661**
IDC II 21 21 25 20.0–1.4 27.02N 143.66E 0 3.5,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=13.2km az=167.9.
IDC Error ellipse: s-maj=30.7km s-min=23.3km az=171.0.
ISC II 21 21 42 31.8–.86 27.1N–.10 143.79E–.10 10 3.7b 17 1-79
ISCJB II 21 21 42 29.9–.68 27.15N–.08 143.84E–.08 10 3.9b **¶17192662**
IDC II 21 21 42 30.0–.86 27.09N 143.94E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=10.1km az=157.2.
IDC Error ellipse: s-maj=21.3km s-min=17.6km az=110.0.
ISC II 21 21 53 04.0–.70 27.33N–.08 143.60E–.07 35 4.0b 43 1-149
IDC II 21 21 52 58.1–1.1 27.15N 143.78E 0 4.1,4.0 **¶16398697**
NEIC II 21 21 52 59.5–.69 27.14N 143.74E 10 4.3b,4.0
JMA II 21 21 53 00.1–.30 27.26N 143.72E 57 3.9,4.0
ISCJB II 21 21 53 02.9–.52 27.48N–.04 143.55E–.05 33 3.9b,2.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 22 00 25 16.9–1.2 27.49N–.08 143.2E–.10 10 4.1b 22 1-78
ISCJB II 22 00 25 14.8–.92 27.59N–.05 143.28E–.09 10 3.9b **¶17192665**
IDC II 22 00 25 15.2–1.2 27.37N 143.23E 0 4.0,4.0L
JMA II 22 00 25 19.6–.40 27.49N 143.14E 47 4.2,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.1km az=26.5.
IDC Error ellipse: s-maj=25.5km s-min=19.7km az=95.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC II 22 09 17 14.9–.90 26.7N–.10 143.59E–.09 10 3.8b 17 1-95
ISCJB II 22 09 17 13.0–.69 26.6N–.10 143.69E–.09 10 3.8b **¶17192691**
IDC II 22 09 17 13.2–.83 26.59N 143.65E 0 3.9,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=10.1km az=24.9.
IDC Error ellipse: s-maj=23.9km s-min=17.1km az=66.0.
IDC II 22 19 38 03.2–4.3 27.75N 141.48E 0 3.6,3.5
¶17192721
IDC Error ellipse: s-maj=167.5km s-min=27.6km az=76.0.
ISC II 22 20 18 19.3–.85 27.74N–.06 143.29E–.09 10 4.0b,2.9s 42 1-94
IDC II 22 20 18 17.4–.93 27.58N 143.40E 0 3.9,3.8 **¶16363012**
NEIC II 22 20 18 18.9–.48 27.61N 143.35E 10 4.2b,3.8
JMA II 22 20 18 20.3–.10 27.93N 143.08E 12 4.7,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=16.8km az=106.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.6km az=95.0.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
ISC II 22 20 24 19.6–3.3 27.8N–.20 143.2E–.90 10 3.7b 10 1-58
ISCJB II 22 20 24 17.4–1.3 27.89N–.06 143.4E–.10 10 3.7b **¶17192726**
JMA II 22 20 24 20.4–.20 27.95N 143.12E 10 4.3
IDC II 22 20 24 20.2–4.8 27.50N 142.47E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=6.8km az=14.5.
JMA Error ellipse: s-maj=6.7km s-min=7.9km az=-1.0.
IDC Error ellipse: s-maj=187.3km s-min=27.3km az=75.0.
ISC II 22 20 57 01.7–.99 27.1N–.10 143.70E–.10 10 3.9b 21 1-79
ISCJB II 22 20 57 00.6–.95 27.30N–.08 143.75E–.08 10 3.9b **¶16363013**
IDC II 22 20 57 00.2–1.0 27.03N 143.81E 0 4.1,3.8
NEIC II 22 20 57 01.6–.73 27.05N 143.75E 10 4.6b,3.8
JMA II 22 20 57 01.8 27.45N 143.57E 0 4.6,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=8.8km az=149.4.
IDC Error ellipse: s-maj=27.6km s-min=24.6km az=64.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=12.6km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 23 06 00 30.7–1.6 27.69N–.05 143.44E–.06 25–11 4.4b,3.8s 108 1-149
ISCJB II 23 06 00 26.3–1.3 27.68N–.04 143.44E–.04 9–8 4.4b,3.7s **¶16136366**
IDC II 23 06 00 26.3–.53 27.60N 143.47E 0 4.3,4.1L
NEIC II 23 06 00 28.0–.25 27.60N 143.47E 10 4.9b,4.1L
MOS II 23 06 00 27.2–1.1 27.56N 143.49E 19 4.4b,4.1L
BJI II 23 06 00 27.6 27.46N 143.37E 21 5.0b,4.6b
JMA II 23 06 00 28.1 27.92N 143.15E 4 4.8,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=135.8.
IDC Error ellipse: s-maj=16.3km s-min=13.4km az=104.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.7km az=85.0.
MOS Error ellipse: s-maj=15.5km s-min=7.5km az=112.4.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC II 23 07 06 41.1–2.1 26.46N 143.42E 0 3.7,3.5
¶17192741
IDC Error ellipse: s-maj=62.8km s-min=19.5km az=58.0.
IDC II 23 09 46 15.8–1.7 26.04N 142.00E 0 3.8,3.7
¶17192742
IDC Error ellipse: s-maj=54.0km s-min=19.5km az=99.0.
ISC II 23 15 50 10.1–.95 27.75N–.06 143.4E–.10 10 4.0b 32 1-78
IDC II 23 15 50 07.8–.91 27.66N 143.61E 0 4.0,3.8 **¶16193677**
ISCJB II 23 15 50 08.4–.69 27.81N–.04 143.43E–.08 10 3.9b,3.8
NEIC II 23 15 50 09.5–.60 27.71N 143.63E 10 4.4b,3.8
JMA II 23 15 50 12.2–.10 27.96N 143.11E 10 4.4,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=16.7km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=4.9km az=24.1.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=8.6km az=88.0.
JMA Error ellipse: s-maj=3.3km s-min=2.9km az=-1.0.
ISC II 23 21 54 27.6–.44 27.16N–.06 140.32E–.07 300 3.9b 94 2-151
ISCJB II 23 21 54 25.9–.34 27.09N–.04 140.35E–.06 300 3.9b **¶16154816**
MOS II 23 21 54 26.4–.92 27.13N 140.30E 308 4.0b
IDC II 23 21 54 29.4–.92 27.19N 140.34E 323–8 4.3,3.8
BJI II 23 21 54 29.8 27.09N 140.01E 313 4.5b,4.3b
JMA II 23 21 54 30.8–.20 27.39N 140.79E 319–3 4.5,4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.9km az=5.1.
MOS Error ellipse: s-maj=14.0km s-min=7.3km az=102.7.
IDC Error ellipse: s-maj=10.2km s-min=9.0km az=91.0.
JMA Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
IDC II 24 04 53 04.7–1.2 26.92N 141.38E 0 3.9,3.6
¶17192770
IDC Error ellipse: s-maj=30.4km s-min=16.6km az=174.0.
ISC II 24 07 38 56.9–.75 26.7N–.10 144.03E–.08 10 4.1b 23 2-148
ISCJB II 24 07 38 54.8–.58 26.60N–.10 144.14E–.07 10 4.0b **¶16398839**
IDC II 24 07 38 55.3–.74 26.62N 144.11E 0 4.0,3.8
NEIC II 24 07 38 56.9–.48 26.65N 144.05E 10 4.1b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=8.0km az=17.4.
IDC Error ellipse: s-maj=23.7km s-min=16.8km az=64.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=10.2km az=62.0.
ISC II 24 07 40 57.4–.54 26.90N–.06 144.28E–.06 35 4.5b,4.0s 138 2-148
NIED II 24 07 40 00 27.00N 144.20E 5 4.6W,4.0s **¶16153250**
MOS II 24 07 40 51.8–1.1 26.77N 144.29E 14 4.7b,4.0s
IDC II 24 07 40 51.9–.63 26.76N 144.25E 0 4.3,4.1
BJI II 24 07 40 52.1 26.64N 144.04E 9 5.0b,4.7s
JMA II 24 07 40 53.6–.10 26.99N 144.24E 37 4.4,4.7s
NEIC II 24 07 40 53.2–.31 26.76N 144.24E 10 4.7b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ15.00000°,λ-77.00000°. NP2:ϕ_s113.00000°,δ76.00000°,λ-93.00000°. M_o9.06000×10^{15}
MOS Error ellipse: s-maj=13.2km s-min=6.6km az=108.5.
IDC Error ellipse: s-maj=16.7km s-min=15.0km az=76.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.7km az=12.0.
ISC II 24 08 02 05.1–.79 26.8N–.10 144.08E–.07 35 4.0b 30 2-148
IDC II 24 08 01 59.5–.76 26.66N 144.17E 0 4.0,3.9 **¶16398841**
NEIC II 24 08 02 01.3–.54 26.71N 144.16E 10 4.3b,3.9
ISCJB II 24 08 02 02.8–.61 26.66N–.09 144.11E–.05 33 3.9b,3.4s
JMA II 24 08 02 02.1 26.80N 144.06E 94 3.9,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=17.5km az=9.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=10.4km az=210.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=6.7km az=6.7.
IDC II 24 08 34 40.9–6.5 26.60N 143.60E 0 3.8,3.6
¶17192777
IDC Error ellipse: s-maj=241.8km s-min=29.0km az=75.0.

ISC II 24 09 05 44.7–1.2 26.6N–.10 144.0E–.20 10 3.9b 12 2-59
ISCJB II 24 09 05 42.7–.90 26.7N–.10 144.1E–.10 10 3.8b,2.5s **¶17192779**
IDC II 24 09 05 42.8–1.8 26.63N 144.16E 0 3.7,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=11.5km az=43.0.
IDC Error ellipse: s-maj=59.9km s-min=17.9km az=69.0.
ISC II 24 12 28 26.6–.92 26.7N–.10 144.1E–.10 10 3.8b 11 2-148
ISCJB II 24 12 28 25.5–.98 26.7N–.20 144.12E–.09 10 3.6b **¶17192788**
IDC II 24 12 28 25.5–.93 26.68N 144.15E 0 3.9,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=11.6km az=8.2.
IDC Error ellipse: s-maj=29.9km s-min=22.0km az=34.0.
ISC II 24 15 50 25.9–.85 26.91N–.09 144.08E–.10 10 3.8b,3.1s 19 2-148
IDC II 24 15 50 24.4–.78 26.76N 144.18E 0 3.9,3.8 **¶17192793**
JMA II 24 15 50 26.2–.10 27.13N 144.09E 13 4.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=19.4km az=73.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 24 19 33 19.8–.70 27.10N–.07 143.73E–.07 10 4.0b 36 1-149
ISCJB II 24 19 33 17.5–.57 27.13N–.05 143.81E–.05 10 3.9b **¶16342396**
IDC II 24 19 33 17.9–.72 26.94N 143.89E 0 4.1,3.9
NEIC II 24 19 33 19.3–.45 27.02N 143.82E 10 4.6b,3.9
JMA II 24 19 33 20.9–.20 27.39N 143.62E 8–5 3.9,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=152.9.
IDC Error ellipse: s-maj=20.2km s-min=16.7km az=83.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.6km az=75.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC II 24 20 29 18.5–.48 26.31N–.08 144.45E–.06 10 4.5b,3.5s 115 2-148
MOS II 24 20 29 16.5–1.0 26.23N 144.50E 11 4.8b,3.5s **¶16168919**
IDC II 24 20 29 16.6–.49 26.31N 144.51E 0 4.5,4.3
ISCJB II 24 20 29 18.0–.43 26.56N–.06 144.46E–.04 10 4.5b,3.6s
NEIC II 24 20 29 18.1–.27 26.29N 144.52E 10 4.6b,3.6s
JMA II 24 20 29 19.7–.10 26.67N 144.41E 16 4.2,3.6s
ISC Event type se.
MOS Error ellipse: s-maj=13.5km s-min=7.1km az=107.2.
IDC Error ellipse: s-maj=14.4km s-min=12.9km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=167.4.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.0km az=219.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC II 25 07 02 07.3–1.4 26.58N 144.11E 0 4.0,3.7
¶17192820
IDC Error ellipse: s-maj=36.1km s-min=29.4km az=23.0.
ISC II 25 16 34 55.6–1.1 26.6N–.10 144.1E–.10 10 3.6b 11 2-72
ISCJB II 25 16 34 53.2–.89 26.6N–.10 144.2E–.10 10 3.5b **¶17192849**
IDC II 25 16 34 53.9–1.1 26.59N 144.14E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=11.8km az=31.5.
IDC Error ellipse: s-maj=26.3km s-min=19.4km az=64.0.
ISC II 25 19 31 59.3–1.4 27.2N–.10 143.4E–.10 10 3.7b 7 1-78
ISCJB II 25 19 31 56.1–1.3 27.3N–.10 143.5E–.10 10 3.6b **¶17192860**
IDC II 25 19 31 58.2–1.4 27.12N 143.32E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=14.8km az=170.0.
IDC Error ellipse: s-maj=27.8km s-min=22.7km az=49.0.
IDC II 25 20 10 01.0–2.1 26.50N 143.92E 0 3.8,3.7
¶17192861
IDC Error ellipse: s-maj=56.6km s-min=20.8km az=58.0.
ISC II 25 21 23 13.8–.85 26.5N–.10 143.98E–.09 10 4.1b 23 2-95
ISCJB II 25 21 23 12.1–.70 26.4N–.10 144.04E–.06 10 4.0b **¶16363023**
IDC II 25 21 23 12.7–1.6 26.36N 143.87E 0 3.9,3.8b
NEIC II 25 21 23 13.8–.50 26.46N 143.96E 10 4.1b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=7.3km az=10.4.
IDC Error ellipse: s-maj=41.9km s-min=23.6km az=62.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.0km az=188.0.
IDC II 25 21 40 20.1–1.9 27.04N 143.32E 0 3.7,3.5
¶17192867
IDC Error ellipse: s-maj=32.4km s-min=26.9km az=46.0.
ISC II 26 06 14 46.4–1.2 27.2N–.10 143.5E–.10 35 4.1b 26 1-78
IDC II 26 06 14 41.4–1.2 27.14N 143.47E 0 3.9,3.8 **¶16196736**
NEIC II 26 06 14 42.5–.76 27.18N 143.58E 10 4.7b,3.8
ISCJB II 26 06 14 43.8–.74 27.30N–.06 143.56E–.07 33 4.0b,3.8
JMA II 26 06 14 44.9–.10 27.37N 143.44E 53 4.4,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=18.5km az=73.0.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=8.8km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.1km az=44.6.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 26 06 52 52.8–.54 28.97N–.06 138.31E–.09 473 3.5b 48 4-121
JMA II 26 06 52 51.7–.20 29.03N 139.08E 549 4.1 **¶16168931**
ISCJB II 26 06 52 52.1–.38 28.99N–.04 138.26E–.07 473 3.5b
IDC II 26 06 52 54.1–.63 29.04N 138.69E 500–7 4.1,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.2km az=165.9.
IDC Error ellipse: s-maj=13.9km s-min=9.3km az=69.0.
ISC II 27 00 40 24.3–.57 27.88N–.06 139.59E–.07 512–6 4.0b 128 2-152
MOS II 27 00 40 23.0–.89 27.89N 139.61E 517 4.1b **¶17539281**
BJI II 27 00 40 23.6 27.58N 139.41E 508 4.7b,4.4b
ISCJB II 27 00 40 23.7–.30 27.89N–.03 139.63E–.06 521–3 3.9b,4.4b
NEIC II 27 00 40 24.0–.56 27.83N 139.50E 502–8 4.2b,4.4b
JMA II 27 00 40 24.1–.10 27.96N 139.86E 527 4.5,4.4b
IDC II 27 00 40 24.3–.50 27.89N 139.59E 512–5 4.3,3.6
ISC Event type se.
MOS Error ellipse: s-maj=18.5km s-min=7.7km az=115.4.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.1km az=166.1.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.6km az=73.0.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=7.7km az=70.0.
IDC II 27 07 39 53.0–1.2 26.61N 141.62E 0 4.0,3.8b
¶17192939
IDC Error ellipse: s-maj=45.1km s-min=15.0km az=126.0.
IDC II 27 22 38 05.2–1.3 26.89N 143.20E 0 3.8,3.6
¶17192969
IDC Error ellipse: s-maj=31.7km s-min=27.1km az=177.0.
ISC II 28 16 35 49.1–.42 27.69N–.04 139.93E–.04 483–3 4.7b 519 2-152
NIED II 28 16 35 00 27.80N 140.50E 500 4.6W **¶16852183**
BJI II 28 16 35 46.4 27.47N 139.94E 479 4.9b,4.8b
MOS II 28 16 35 48.3–.74 27.62N 139.79E 486 4.8b,4.8b
IDC II 28 16 35 48.5–.42 27.65N 139.90E 475–4 4.8,4.0
ISCJB II 28 16 35 48.1–.25 27.65N–.02 139.91E–.03 484–2 4.5b,4.0
NEIC II 28 16 35 49.4–.36 27.64N 139.83E 489–3 4.7b,4.0
JMA II 28 16 35 49.0–.30 27.84N 140.48E 497–4 4.5,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ43.00000°,λ-131.00000°. NP2:ϕ_s5.00000°,δ59.00000°,λ-58.00000°. $M_0$1.01000×10^{16}
MOS Error ellipse: s-maj=9.2km s-min=4.2km az=112.4.
IDC Error ellipse: s-maj=8.2km s-min=5.6km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.8km az=2.7.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.0km az=126.0.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
ISC III 02 05 34 22.6–.89 27.1N–.10 143.45E–.08 10 4.0b 28 1-87
ISCJB III 02 05 34 20.8–.61 27.15N–.07 143.52E–.05 10 4.0b **¶16442175**
IDC III 02 05 34 21.1–1.0 27.15N 143.50E 0 4.0,3.9
NEIC III 02 05 34 22.5–.51 27.11N 143.50E 10 4.4b,3.9
JMA III 02 05 34 25.2–.10 27.27N 143.33E 16 4.4b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.1km az=157.0.
IDC Error ellipse: s-maj=25.8km s-min=18.6km az=87.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=7.8km az=79.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC III 02 15 32 19.3–2.1 26.87N 143.94E 0 3.6L,3.5
¶17193147
IDC Error ellipse: s-maj=56.0km s-min=22.5km az=67.0.
ISC III 02 23 47 06.6–1.1 27.0N–.10 143.8E–.10 10 3.7b 9 1-79
IDC III 02 23 47 04.8–1.3 26.92N 143.97E 0 3.9,3.9L **¶17193164**
ISCJB III 02 23 47 04.7–1.0 27.0N–.10 143.86E–.09 10 3.6b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 03 00 57 07.8–.71 27.84N–.09 139.6E–.10 478 3.5b 23 2-82
IDC III 03 00 57 07.5–.60 27.90N 139.88E 489–11 4.0,3.3 **¶17193165**
ISCJB III 03 00 57 07.1–.49 27.79N–.06 139.42E–.09 478 3.6b,3.3
JMA III 03 00 57 08.0–.10 27.99N 140.45E 521 4.1,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=29.3km s-min=11.8km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=6.9km az=152.8.
JMA Error ellipse: s-maj=3.3km s-min=6.9km az=-1.0.
ISC III 03 14 44 49.7–.66 26.91N–.08 143.95E–.07 35 4.2b 38 2-148
NIED III 03 14 44 00 27.20N 143.90E 5 3.9W **¶16425224**
IDC III 03 14 44 44.1–.65 26.78N 144.06E 0 4.1,4.0
NEIC III 03 14 44 45.5–.45 26.79N 144.05E 10 4.4b,4.0
ISCJB III 03 14 44 48.1–.61 27.01N–.06 144.00E–.05 33 4.0b,4.0
JMA III 03 14 44 49.5–.20 27.18N 143.87E 33 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ36.00000°,λ-95.00000°. NP2:ϕ_s131.00000°,δ54.00000°,λ-86.00000°. $M_0$7.42000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=16.6km az=90.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=10.4km az=223.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.7km az=161.2.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC III 05 01 43 42.1–.86 26.98N–.08 143.93E–.09 35 3.8b 23 2-79
IDC III 05 01 43 36.4–.84 26.94N 144.06E 0 3.9,3.7 **¶17193256**
JMA III 05 01 43 39.5–.10 27.21N 143.75E 0 3.9,3.7
ISCJB III 05 01 43 40.3–.73 27.10N–.05 143.95E–.06 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 05 17 37 45.2–1.5 27.15N–.07 143.8E–.10 35 18 1-51
ISCJB III 05 17 37 43.7–1.1 27.25N–.05 143.85E–.08 35 3.5b **¶602649973**
IDC III 05 17 37 46.6–1.7 26.61N 141.06E 0 3.8,3.5
JMA III 05 17 37 46.0–.20 27.21N 143.71E 54 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.8km az=22.4.
IDC Error ellipse: s-maj=42.2km s-min=19.0km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC III 06 00 56 03.6–.46 27.07N–.06 143.72E–.05 35 4.5b,3.5s 201 1-149
NIED III 06 00 55 00 27.20N 143.80E 8 4.3W,3.5s **¶16404861**
BJI III 06 00 55 52.4 26.54N 144.26E 11 4.8b,4.5s
IDC III 06 00 55 57.5–.54 26.94N 143.80E 0 4.5,4.3
JMA III 06 00 55 58.8–.20 27.18N 143.79E 21 4.6,4.3
NEIC III 06 00 55 59.5–.19 26.95N 143.71E 10 4.7b,4.3
MOS III 06 00 56 01.1–.97 26.91N 143.73E 33 4.7b,4.3
ISCJB III 06 00 56 02.9–.29 27.26N–.05 143.64E–.03 33 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ23.00000°,λ-73.00000°. NP2:ϕ_s145.00000°,δ68.00000°,λ-97.00000°. $M_0$3.57000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 06 03 43 58.4–.87 27.21N–.10 143.63E–.08 35 3.9b 34 1-149
NIED III 06 03 43 00 27.20N 143.80E 8 3.9W **¶16339071**
IDC III 06 03 43 53.7–2.0 27.29N 143.91E 0 4.0,3.9L
JMA III 06 03 43 54.7–.10 27.17N 143.76E 58 3.9,3.9L
NEIC III 06 03 43 54.1–.57 27.07N 143.77E 10 4.3b,3.9L
ISCJB III 06 03 43 57.1–.59 27.36N–.06 143.59E–.06 33 3.9b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ20.00000°,λ-85.00000°. NP2:ϕ_s144.00000°,δ70.00000°,λ-92.00000°. $M_0$8.17000×10^{14}
NEIC Event type se.
ISCJB Event type se.
IDC III 06 04 28 17.5–1.7 28.21N 144.50E 0 3.7,3.4
¶17193320
IDC Error ellipse: s-maj=69.1km s-min=31.6km az=97.0.
IDC III 06 04 32 06.7–2.2 26.58N 143.92E 0 3.7,3.5b
¶17193321
IDC Error ellipse: s-maj=50.3km s-min=26.9km az=55.0.
IDC III 06 07 13 12.9–2.9 26.97N 143.77E 0 3.6,3.5L
¶602707107
IDC Error ellipse: s-maj=62.0km s-min=28.8km az=54.0.
ISC III 06 07 13 25.3–.47 27.13N–.04 143.66E–.04 14–2 4.9b,4.1s 752 1-149
NIED III 06 07 13 00 27.20N 143.50E 8 4.6W,4.1s **¶16484455**
IDC III 06 07 13 22.5–.39 27.04N 143.74E 0 4.8,4.7
ISCJB III 06 07 13 23.3–1.0 27.25N–.03 143.64E–.02 7–5 4.8b,4.1s
NEIC III 06 07 13 24.4–.13 27.01N 143.66E 10 4.9b,4.1s
BJI III 06 07 13 24.7 27.17N 143.40E 10 4.9b,4.7b
MOS III 06 07 13 24.6–.92 27.04N 143.64E 23 5.1b,4.7b
JMA III 06 07 13 26.0–.10 27.16N 143.55E 96–5 4.5,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ28.00000°,λ-130.00000°. NP2:ϕ_s166.00000°,δ69.00000°,λ-71.00000°. $M_0$9.15000×10^{15}
IDC Error ellipse: s-maj=12.7km s-min=10.8km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=2.9km az=175.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.9km az=177.0.
MOS Error ellipse: s-maj=7.5km s-min=4.3km az=104.1.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
ISC III 06 07 16 44.6–1.5 27.0N–.10 143.7E–.10 10 3.5b 7 1-52
ISCJB III 06 07 16 42.8–1.3 27.0N–.10 143.8E–.10 10 3.5b **¶17193326**
IDC III 06 07 16 43.1–2.3 26.96N 143.79E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=13.8km az=29.0.
IDC Error ellipse: s-maj=55.3km s-min=24.9km az=64.0.
ISC III 06 07 20 00.2–.92 27.0N–.10 143.65E–.07 10 3.5b 16 1-80
ISCJB III 06 07 19 58.3–.71 27.1N–.10 143.66E–.06 10 3.5b **¶16442193**
IDC III 06 07 19 58.5–.91 27.05N 143.76E 0 3.8L,3.7
NEIC III 06 07 20 00.1–.53 27.07N 143.71E 10 4.1b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=7.9km az=169.7.
IDC Error ellipse: s-maj=24.7km s-min=20.1km az=124.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=11.1km az=110.0.
ISC III 06 07 29 56.2–1.3 27.1N–.10 143.7E–.10 10 3.4b 8 1-57
ISCJB III 06 07 29 54.2–1.2 27.1N–.10 143.8E–.10 10 3.3b **¶17193327**
IDC III 06 07 29 54.8–1.6 27.04N 143.76E 0 3.5,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=12.8km az=166.6.
IDC Error ellipse: s-maj=31.8km s-min=30.4km az=94.0.
ISC III 06 07 37 27.7–1.2 27.1N–.10 143.7E–.10 10 3.4b 9 1-71
ISCJB III 06 07 37 25.8–1.1 27.1N–.10 143.82E–.09 10 3.4b **¶17193329**
IDC III 06 07 37 26.0–1.2 27.07N 143.86E 0 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=11.7km az=167.6.
IDC Error ellipse: s-maj=27.1km s-min=24.1km az=143.0.
ISC III 06 07 38 17.5–1.1 27.0N–.10 143.73E–.08 10 3.4b 11 1-72
ISCJB III 06 07 38 15.4–.85 27.0N–.10 143.89E–.09 10 3.5s,3.5b **¶17193332**
IDC III 06 07 38 16.1–1.0 26.98N 143.78E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=11.3km az=0.8.
IDC Error ellipse: s-maj=21.1km s-min=20.6km az=9.0.
ISC III 06 07 44 07.5–.86 27.35N–.07 143.63E–.08 35 3.7b 32 1-149
IDC III 06 07 44 00.3–.66 27.02N 143.84E 0 3.8,3.7L **¶17193333**
ISCJB III 06 07 44 06.0–.63 27.48N–.04 143.60E–.06 33 3.6b,3.7L
JMA III 06 07 44 09.0 27.47N 143.40E 60 3.2,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=16.2km az=72.0.

ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.9km az=21.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 06 07 47 13.8–.56 27.19N–.06 143.67E–.08 35 4.2b 59 1-149
NIED III 06 07 47 00 27.30N 143.70E 5 3.9W ¶16442194
IDC III 06 07 47 07.9–.52 27.00N 143.82E 0 4.2,4.0
NEIC III 06 07 47 09.4–.33 27.00N 143.76E 10 4.8b,4.0
JMA III 06 07 47 11.2–.10 27.27N 143.66E 24 4.3,4.0
ISCJB III 06 07 47 13.2–.52 27.40N–.03 143.60E–.05 33 4.1b,2.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ33.00000°,λ-95.00000°. NP2:ϕ_s134.00000°,δ57.00000°,λ-87.00000°. $M_0$9.09000×10^{14}
NEIC Event type se.
ISCJB Event type se.
ISC III 06 07 53 58.3–1.3 27.12N–.09 143.66E–.09 10 3.7b 17 1-54
IDC III 06 07 53 57.0–1.6 26.91N 143.63E 0 3.7,3.6b ¶17193334
JMA III 06 07 53 58.5–.10 27.33N 143.61E 4 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=35.9km s-min=21.7km az=58.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC III 06 10 06 04.3–.90 27.0N–.10 143.63E–.08 10 3.7b 18 1-83
IDC III 06 10 06 02.6–.83 26.95N 143.73E 0 3.9,3.7 ¶17193340
ISCJB III 06 10 06 02.5–.71 26.91N–.10 143.68E–.08 10 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 06 10 11 54.9–4.5 27.16N 143.62E 0 3.7,3.7b
¶17193341
IDC Error ellipse: s-maj=110.4km s-min=86.6km az=56.0.
ISC III 06 10 50 33.3–.67 26.99N–.09 143.65E–.05 10 4.0b 35 1-149
ISCJB III 06 10 50 31.2–.49 26.95N–.06 143.67E–.05 10 3.9b,3.5s ¶16314217
IDC III 06 10 50 31.6–.62 26.92N 143.68E 0 4.0,3.8
NEIC III 06 10 50 33.1–.43 26.93N 143.64E 10 4.5b,3.8
JMA III 06 10 50 35.3–.20 27.38N 143.54E 17 3.2,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.9km az=0.8.
IDC Error ellipse: s-maj=18.3km s-min=14.6km az=85.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.0km az=76.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC III 06 10 51 16.8–1.0 27.0N–.10 143.70E–.07 10 4.1b 27 1-87
IDC III 06 10 51 15.2–1.1 26.92N 143.72E 0 4.0,3.9 ¶602707108
JMA III 06 10 51 15.9–.20 27.30N 143.74E 5 3.7,3.9
NEIC III 06 10 51 16.7–.64 26.92N 143.72E 10 4.2b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=17.8km az=79.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=8.4km az=76.0.
ISC III 06 10 52 51.4–.66 26.92N–.05 143.64E–.04 11–3 5.0b,4.1s 561 1-149
NIED III 06 10 52 00 27.10N 143.80E 5 4.6W,4.1s ¶16314220
BJI III 06 10 52 47.6 26.90N 143.60E 10 5.0b,4.9b
IDC III 06 10 52 49.4–.41 26.95N 143.72E 0 4.8,4.7
MOS III 06 10 52 50.3–.97 26.84N 143.51E 14 5.0b,4.7
ISCJB III 06 10 52 50.4–.12 26.96N–.02 143.55E–.02 10 4.9b,4.1s
GCMT III 06 10 52 51.8–.40 27.09N 143.69E 17–1 4.8W,4.1s
NEIC III 06 10 52 51.8–.16 26.90N 143.57E 10 5.0b,4.1s
JMA III 06 10 52 52.0–.10 27.14N 143.77E 55 4.7,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ46.00000°,λ-59.00000°. NP2:ϕ_s302.00000°,δ52.00000°,λ-118.00000°. $M_0$9.42000×10^{15}
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=92.0.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=160.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c12; s69,c89; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.91±.17 $M_{\theta\theta}$0.71±.09; $M_{\phi\phi}$1.20±.11; $M_{r\theta}$0.49±.24; $M_{\theta\phi}$-0.61±.04; $M_{\phi r}$-0.17±.26; Best double couple: NP1:ϕ_s318.00000°,δ52.00000°,λ-100.00000°. NP2:ϕ_s153.00000°,δ39.00000°,λ-78.00000°. Principal axes: T 1.6570,Plg7.0000°,Azm54.0000°; N 0.3420,Plg7.0000°,Azm324.0000°; P -2.0000,Plg80.0000°,Azm186.0000° $M_0$1.82800×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC III 06 10 56 48.1–2.9 26.98N 143.69E 0 3.7,3.5
¶17193345
IDC Error ellipse: s-maj=60.7km s-min=27.7km az=54.0.
IDC III 06 11 05 50.8–2.2 26.95N 143.79E 0 3.5,3.4b
¶16484479
IDC Error ellipse: s-maj=55.3km s-min=24.0km az=63.0.
ISC III 06 11 06 30.9–.39 27.00N–.05 143.67E–.05 35 4.7b,3.9s 256 1-150
NIED III 06 11 06 00 27.20N 143.70E 5 4.4W,3.9s ¶17193346
IDC III 06 11 06 25.1–.45 26.97N 143.72E 0 4.5,4.4
MOS III 06 11 06 25.6–1.0 26.92N 143.58E 13 4.8b,4.4
BJI III 06 11 06 26.9 26.94N 143.30E 10 4.9b,4.6b
JMA III 06 11 06 27.6–.10 27.19N 143.74E 64 4.5,4.6b
NEIC III 06 11 06 27.0–.16 26.94N 143.64E 10 4.7b,4.6b
ISCJB III 06 11 06 28.9–.19 26.98N–.03 143.59E–.03 33 4.6b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ38.00000°,λ-70.00000°. NP2:ϕ_s135.00000°,δ55.00000°,λ-105.00000°. $M_0$3.77000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 06 11 08 35.5–.82 27.0N–.10 143.70E–.08 10 4.2b 24 1-83
ISCJB III 06 11 08 33.7–.52 26.94N–.08 143.75E–.06 10 4.0b ¶16314223
IDC III 06 11 08 33.7–.81 26.97N 143.79E 0 3.9,3.8
NEIC III 06 11 08 35.4–.39 26.96N 143.82E 10 4.5b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=7.3km az=4.9.
IDC Error ellipse: s-maj=20.5km s-min=19.6km az=124.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=9.2km az=83.0.
ISC III 06 11 26 29.2–.35 27.04N–.04 143.65E–.05 35 4.7b,3.6s 326 1-150
NIED III 06 11 26 00 27.30N 143.70E 5 4.5W,3.6s ¶16196721
BJI III 06 11 26 23.2 26.89N 143.59E 10 4.9b,4.6b
IDC III 06 11 26 23.4–.42 26.98N 143.71E 0 4.6,4.5
MOS III 06 11 26 24.0–.93 26.92N 143.52E 12 4.9b,4.5
NEIC III 06 11 26 25.6–.17 26.92N 143.61E 10 4.7b,4.5
JMA III 06 11 26 25.8–.20 27.26N 143.68E 24 4.8,4.5
ISCJB III 06 11 26 27.8–.16 27.05N–.03 143.50E–.03 33 4.7b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ32.00000°,λ-89.00000°. NP2:ϕ_s147.00000°,δ58.00000°,λ-90.00000°. $M_0$7.14000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 06 11 31 04.2–1.2 27.0N–.10 143.6E–.10 10 3.2b 7 1-57
ISCJB III 06 11 31 01.8–1.0 27.0N–.10 143.7E–.10 10 3.3b ¶17193348
IDC III 06 11 31 02.8–1.2 26.91N 143.59E 0 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=12.9km az=9.3.
IDC Error ellipse: s-maj=24.2km s-min=21.5km az=51.0.
ISC III 06 12 03 15.1–.78 27.16N–.08 143.66E–.08 35 3.7b 29 1-149
IDC III 06 12 03 09.4–.76 26.92N 143.86E 0 3.9,3.8 ¶17193349
JMA III 06 12 03 11.5–.10 27.18N 143.81E 45 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=18.6km az=130.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 06 12 06 59.8–1.1 27.08N–.09 143.76E–.09 35 3.3b 15 1-149
IDC III 06 12 06 55.6–.91 26.97N 143.81E 0 3.7,3.5 ¶17193350
ISCJB III 06 12 06 58.6–.76 27.18N–.06 143.77E–.06 33 3.3b,3.5
JMA III 06 12 06 58.5–.10 27.15N 143.78E 56 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.0km s-min=22.2km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.8km az=145.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC III 06 13 16 58.9–2.6 26.95N 143.47E 0 3.6,3.5L
¶17193352
IDC Error ellipse: s-maj=49.7km s-min=22.6km az=40.0.
IDC III 06 13 53 23.9–1.7 26.62N 141.11E 0 3.5,3.3
¶17193355
IDC Error ellipse: s-maj=47.1km s-min=22.5km az=126.0.
ISC III 06 14 18 44.5–1.1 27.11N–.08 143.8E–.10 35 3.8b 17 1-59
IDC III 06 14 18 41.2–1.0 26.83N 143.58E 0 3.8,3.7 ¶17193357
ISCJB III 06 14 18 42.2–.78 27.12N–.06 143.83E–.07 33 3.7b,3.7
JMA III 06 14 18 43.6 27.22N 143.71E 36 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=16.8km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.3km az=153.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 06 15 26 38.9–1.3 27.04N–.09 143.7E–.10 10 4.1b 21 1-60
ISCJB III 06 15 26 36.4–.78 27.14N–.05 143.84E–.06 10 3.9b ¶16339075
NEIC III 06 15 26 37.8–1.2 27.06N 143.93E 10 4.2b
IDC III 06 15 26 37.0–1.9 26.96N 143.84E 0 3.9,3.9L
JMA III 06 15 26 40.3–.70 27.07N 143.59E 0 4.2,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.5km az=141.0.
NEIC Event type se. Error ellipse: s-maj=30.3km s-min=12.2km az=76.0.
IDC Error ellipse: s-maj=52.1km s-min=21.8km az=68.0.
JMA Error ellipse: s-maj=6.7km s-min=5.0km az=-1.0.
ISC III 06 16 15 01.2–1.4 27.1N–.10 143.71E–.09 10 3.1b 12 1-52
ISCJB III 06 16 14 58.8–1.0 27.11N–.08 143.85E–.07 10 3.4b ¶17193361
IDC III 06 16 14 59.6–2.2 26.97N 143.76E 0 3.6,3.5L
JMA III 06 16 15 03.0–.10 27.36N 143.64E 16 3.1,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=8.4km az=152.7.
IDC Error ellipse: s-maj=54.4km s-min=24.1km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC III 06 16 41 42.5–3.0 27.02N 143.85E 0 3.6,3.3
¶17193363
IDC Error ellipse: s-maj=61.9km s-min=29.7km az=54.0.
ISC III 06 18 02 00.5–.72 27.14N–.07 143.65E–.08 35 3.7b 30 1-94
IDC III 06 18 01 54.9–.74 26.93N 143.78E 0 3.9,3.8 ¶17193370
JMA III 06 18 01 57.1–.20 27.14N 143.73E 26 3.5,3.8
ISCJB III 06 18 01 58.8–.71 27.16N–.06 143.70E–.06 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 19 23 09.4–1.4 26.9N–.10 143.6E–.10 10 3.4b 7 1-54
ISCJB III 06 19 23 07.0–1.2 27.0N–.10 143.8E–.10 10 3.4b,3.0s ¶17193374
IDC III 06 19 23 07.9–2.0 26.88N 143.71E 0 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=13.7km az=27.8.
IDC Error ellipse: s-maj=52.2km s-min=23.2km az=66.0.
IDC III 07 13 01 02.8–2.3 26.90N 143.77E 0 3.6,3.4
¶17193414
IDC Error ellipse: s-maj=56.6km s-min=24.5km az=63.0.
IDC III 07 21 16 53.9–1.7 27.08N 143.26E 0 3.8,3.6
¶17193434
IDC Error ellipse: s-maj=32.4km s-min=26.1km az=15.0.
ISC III 07 22 52 19.3–1.2 27.1N–.10 143.56E–.10 10 3.3b 7 1-78
ISCJB III 07 22 52 17.3–.00 27.1N–.10 143.63E–.10 10 3.7b ¶17193439
IDC III 07 22 52 18.3–1.1 27.02N 143.62E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=12.5km az=178.6.
IDC Error ellipse: s-maj=30.0km s-min=22.0km az=85.0.
ISC III 08 04 17 47.4–.89 27.0N–.20 143.40E–.07 10 4.0b 18 1-149
ISCJB III 08 04 17 45.3–.66 27.0N–.10 143.50E–.06 10 3.9b ¶16342401
IDC III 08 04 17 46.0–.86 27.03N 143.38E 0 4.0,3.8
NEIC III 08 04 17 47.4–.42 27.03N 143.39E 10 4.5b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=8.3km az=1.7.
IDC Error ellipse: s-maj=20.2km s-min=18.7km az=31.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.6km az=72.0.
IDC III 08 07 02 53.4–2.8 26.68N 143.23E 0 3.7,3.5
¶17193455
IDC Error ellipse: s-maj=83.9km s-min=23.7km az=73.0.
ISC III 09 02 20 34.5–.96 27.32N–.09 143.3E–.10 35 3.6b 19 1-79
IDC III 09 02 20 29.0–.94 27.27N 143.42E 0 3.9,3.7 ¶17193504
ISCJB III 09 02 20 32.2–.76 27.38N–.07 143.37E–.08 33 3.8b,3.7
JMA III 09 02 20 33.7–.10 27.36N 143.19E 73 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.4km s-min=18.2km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=6.4km az=136.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC III 10 23 47 36.3–10 26.70N 143.27E 0 3.8,3.6b
¶17193665
IDC Error ellipse: s-maj=397.0km s-min=30.8km az=72.0.
IDC III 11 03 18 40.0–1.7 27.14N 143.43E 0 3.9,3.8b
¶17193674
IDC Error ellipse: s-maj=32.1km s-min=22.8km az=50.0.
ISC III 14 20 23 54.9–.68 27.1N–.10 143.42E–.08 35 3.9b 23 1-149
IDC III 14 20 23 49.7–.65 27.09N 143.46E 0 4.1,3.9 ¶16442367
NEIC III 14 20 23 51.6–6.4 27.07N 143.46E 12–39 4.7b,3.9
ISCJB III 14 20 23 52.9–.54 27.08N–.08 143.49E–.06 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 15 03 35 17.1–2.0 26.60N 142.89E 0 4.1s,4.1
¶17196010
IDC Error ellipse: s-maj=60.9km s-min=17.6km az=57.0.
IDC III 15 03 54 18.1–1.1 26.43N 141.82E 0 3.8,3.6
¶17196013
IDC Error ellipse: s-maj=38.4km s-min=14.8km az=110.0.
IDC III 16 02 28 16.0–1.6 27.97N 140.96E 0 4.2,3.8
¶17196318
IDC Error ellipse: s-maj=44.5km s-min=28.3km az=88.0.
IDC III 16 05 38 45.4–1.4 27.40N 142.65E 0 4.2L,4.0
¶17196347
IDC Error ellipse: s-maj=41.7km s-min=27.1km az=81.0.
ISC III 16 16 01 20.7–1.2 26.9N–.10 143.7E–.10 35 4.0b 15 1-60
IDC III 16 16 01 14.5–1.5 26.94N 143.96E 0 3.9,3.8 ¶16427631
NEIC III 16 16 01 16.4–.81 26.93N 143.89E 10 4.2b,3.8
ISCJB III 16 16 01 18.4–.79 26.88N–.09 143.76E–.08 33 3.8b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 16 19 46 08.8–.82 26.9N–.10 143.75E–.08 35 4.1b 30 1-87
IDC III 16 19 46 03.3–.75 26.89N 143.85E 0 4.2,4.0 ¶16440424
NEIC III 16 19 46 05.8–.47 26.91N 143.80E 15 4.6b,4.0
ISCJB III 16 19 46 06.6–.61 26.89N–.09 143.79E–.06 33 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 17 00 58 44.5–1.1 26.76N 141.57E 0 4.2,4.1
¶17196588
IDC Error ellipse: s-maj=26.1km s-min=21.8km az=152.0.
ISC III 17 04 39 35.3–.68 26.6N–.10 143.85E–.07 31 4.0b 26 2-149
IDC III 17 04 39 30.3–.71 26.56N 143.99E 0 4.6s,4.6 ¶16427647
NEIC III 17 04 39 31.9–.49 26.60N 144.03E 10 4.4b,4.6
ISCJB III 17 04 39 33.2–.53 26.55N–.08 144.01E–.08 31 4.5s,3.9b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 17 09 12 34.5–1.2 26.94N 143.86E 0 3.7,3.5
¶17196663
IDC Error ellipse: s-maj=30.4km s-min=24.9km az=91.0.
ISC III 20 13 38 26.7–1.8 26.7N–.20 143.8E–.20 10 3.7b 7 2-54
IDC III 20 13 38 24.9–2.4 26.76N 143.95E 0 3.8,3.7 ¶17197469
ISCJB III 20 13 38 24.3–1.4 26.8N–.20 144.0E–.10 10 3.7b,3.7

ISC Event type ke.
ISCJB Event type ke.
ISC III 20 17 21 36.0–1.4 27.0N–.10 143.6E–.10 10 3.2b 7 1-51
ISCJB III 20 17 21 33.7–1.2 27.1N–.10 143.7E–.10 10 3.4b ¶17197506
IDC III 20 17 21 34.5–1.9 26.97N 143.63E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=14.2km az=24.2.
IDC Error ellipse: s-maj=48.8km s-min=21.1km az=66.0.
IDC III 21 03 46 52.2–1.9 26.75N 143.76E 0 4.0,3.8
¶17197617
IDC Error ellipse: s-maj=45.0km s-min=21.6km az=56.0.
ISC III 22 07 37 45.9–.49 26.78N–.08 144.01E–.07 35 4.7b 89 2-153
IDC III 22 07 37 40.4–.72 26.82N 144.16E 0 5.2,5.2s ¶16449010
NEIC III 22 07 37 42.5–.68 26.80N 144.09E 11–4 4.8b,5.2s
ISCJB III 22 07 37 44.0–.27 26.80N–.05 144.04E–.04 33 5.2s,4.6b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 22 11 52 14.9–1.0 26.7N–.10 144.0E–.10 31 3.7b 10 2-79
IDC III 22 11 52 10.2–.90 26.73N 144.06E 0 3.8,3.6 ¶17197998
ISCJB III 22 11 52 12.8–.84 26.8N–.10 144.09E–.09 31 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 22 15 29 19.3–2.1 26.64N 143.50E 0 3.5,3.3
¶17198029
IDC Error ellipse: s-maj=54.1km s-min=24.2km az=51.0.
ISC III 23 06 35 44.7–1.1 28.4N–.20 139.9E–.20 421 3.8b 7 2-76
ISCJB III 23 06 35 43.4–.93 28.4N–.20 139.8E–.20 421 3.5b ¶17198137
IDC III 23 06 35 44.1–1.4 28.39N 139.80E 412–20 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.7km s-min=15.3km az=146.6.
IDC Error ellipse: s-maj=52.7km s-min=19.2km az=87.0.
ISC III 23 18 51 20.0–.76 26.9N–.10 143.82E–.08 35 4.0b 34 1-149
IDC III 23 18 51 14.8–.61 26.92N 143.90E 0 4.1,4.0 ¶16480489
ISCJB III 23 18 51 18.1–.48 26.86N–.07 143.85E–.05 33 4.4s,4.0b
NEIC III 23 18 51 20.2–.38 26.94N 143.82E 35 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=14.7km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=6.9km az=4.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.3km az=75.0.
ISC III 23 19 10 28.2–.91 26.9N–.10 143.80E–.09 35 3.8b 16 1-80
IDC III 23 19 10 23.1–1.0 26.94N 143.93E 0 4.0L,3.9 ¶16480492
ISCJB III 23 19 10 26.2–.70 26.90N–.08 143.85E–.06 33 3.7b,3.9
NEIC III 23 19 10 28.4–.73 26.97N 143.79E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=21.8km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=8.0km az=6.7.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=14.9km az=89.0.
IDC III 25 02 38 31.3–1.3 27.22N 143.00E 0 4.5L,4.0
¶17198445
IDC Error ellipse: s-maj=63.9km s-min=25.8km az=102.0.
IDC III 25 16 37 45.6–4.4 28.95N 142.86E 0 3.6,3.5b
¶17198527
IDC Error ellipse: s-maj=137.3km s-min=24.8km az=79.0.
ISC III 27 08 54 35.3–.93 27.4N–.10 140.1E–.20 479 3.4b 15 2-83
IDC III 27 08 54 32.9–.57 27.40N 140.21E 450–7 3.8,3.2 ¶17198762
ISCJB III 27 08 54 33.6–.65 27.4N–.10 140.2E–.20 479 3.4b,3.2
ISC Event type ke.
ISCJB Event type ke.
IDC III 27 10 17 34.8–1.4 26.34N 141.22E 512–21 3.9,3.1
¶17198774
IDC Error ellipse: s-maj=82.2km s-min=20.5km az=75.0.
ISC III 28 15 29 34.7–.62 27.4N–.10 140.1E–.10 479 3.6b 26 2-123
ISCJB III 28 15 29 33.9–.45 27.4N–.10 140.0E–.10 479 3.6b ¶16459626
IDC III 28 15 29 34.6–.56 27.45N 140.14E 479–8 4.2,3.5
JMA III 28 15 29 36.9–.10 27.81N 140.72E 479–2 4.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=8.6km az=35.2.
IDC Error ellipse: s-maj=20.7km s-min=13.5km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
ISC III 29 07 51 59.5–.85 28.6N–.10 139.5E–.10 448 3.4b 11 3-76
ISCJB III 29 07 51 58.1–.69 28.5N–.10 139.3E–.20 448 3.4b ¶17199047
IDC III 29 07 52 00.1–.75 28.51N 139.47E 465–10 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=14.4km az=162.3.
IDC Error ellipse: s-maj=21.8km s-min=12.5km az=87.0.
IDC III 29 12 41 35.0–1.9 26.05N 141.82E 0 3.7,3.6
¶17199069
IDC Error ellipse: s-maj=53.2km s-min=27.4km az=98.0.
IDC III 29 21 14 12.2–4.0 27.97N 142.33E 0 3.4,3.3
¶17199115
IDC Error ellipse: s-maj=124.4km s-min=15.4km az=80.0.
ISC III 30 23 52 10.3–.42 27.04N–.04 141.54E–.04 73–3 4.9b 417 1-150
NIED III 30 23 52 00 27.00N 142.10E 65 5.0W ¶16399881
BJI III 30 23 52 06.4 27.06N 141.81E 67 4.9b,4.5b
ISCJB III 30 23 52 08.7–.35 27.06N–.02 141.43E–.03 66–3 4.9b,4.5b
MOS III 30 23 52 08.6–1.1 26.98N 141.21E 73 5.2b,4.5b
IDC III 30 23 52 08.4–.81 27.02N 141.44E 55–8 4.5,4.4
JMA III 30 23 52 10.5–.10 27.01N 142.32E 93 4.8,4.4
NEIC III 30 23 52 11.2–.71 27.00N 141.39E 78–6 5.0b,4.4
GCMT III 30 23 52 11.2–.30 27.09N 141.53E 81–4 5.0W,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ24.00000°,λ55.00000°. NP2:ϕ_s180.00000°,δ71.00000°,λ104.00000°. $M_0$3.87000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=16.8.
MOS Error ellipse: s-maj=10.6km s-min=5.1km az=99.2.
IDC Error ellipse: s-maj=11.4km s-min=9.8km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=6.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=115.0. Recorded [2 JMA] in the Chichijima-retto and Hahajima-retto.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c44; s64,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.67±.17 $M_{\theta\theta}$-2.05±.16; $M_{\phi\phi}$1.38±.17; $M_{r\theta}$-2.92±.09; $M_{\theta\phi}$-1.47±.14; $M_{\phi r}$1.17±.11; Best double couple: NP1:ϕ_s289.00000°,δ84.00000°,λ125.00000°. NP2:ϕ_s28.00000°,δ35.00000°,λ11.00000°. Principal axes: T 3.8410,Plg41.0000°,Azm231.0000°; N 0.1480,Plg34.0000°,Azm105.0000°; P -3.9870,Plg30.0000°,Azm352.0000° $M_0$3.91400×10^{16}
ISC III 31 03 11 42.7–.72 27.11N–.08 143.69E–.08 35 4.0b 41 1-149
IDC III 31 03 11 36.8–.76 26.97N 143.86E 0 4.1,3.9 ¶16475894
NEIC III 31 03 11 38.5–.46 26.99N 143.81E 10 4.2b,3.9
JMA III 31 03 11 39.6–.20 27.10N 143.79E 61 4.2,3.9
ISCJB III 31 03 11 41.3–.57 27.26N–.05 143.68E–.05 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
NIED III 31 13 10 00 27.10N 143.70E 29 3.7W
¶601626028
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ20.00000°,λ-168.00000°. NP2:ϕ_s245.00000°,δ86.00000°,λ-71.00000°. $M_0$3.92000×10^{14}
ISC IV 01 08 39 33.0–1.0 27.1N–.10 142.9E–.10 32 3.5b 11 1-78
NIED IV 01 08 39 00 27.40N 143.10E 17 4.0W ¶17199401
IDC IV 01 08 39 28.3–1.0 27.08N 142.88E 0 3.8,3.6L
ISCJB IV 01 08 39 31.1–.84 27.1N–.10 142.8E–.10 32 3.6b,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ48.00000°,λ166.00000°. NP2:ϕ_s304.00000°,δ79.00000°,λ42.00000°. $M_0$1.00000×10^{15}
ISCJB Event type ke.
ISC IV 04 00 13 29.1–1.2 27.1N–.20 143.4E–.10 10 3.6b 7 1-78
ISCJB IV 04 00 13 27.3–1.1 27.1N–.20 143.5E–.10 10 3.6b ¶17199718
IDC IV 04 00 13 27.5–1.5 27.13N 143.37E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=12.8km az=171.0.
IDC Error ellipse: s-maj=32.0km s-min=22.1km az=160.0.
ISC IV 04 16 37 22.1–1.0 27.52N–.10 142.9E–.10 27 4.3b 25 1-149
IDC IV 04 16 37 17.8–.88 27.47N 143.02E 0 4.0,3.9 ¶16506199
ISCJB IV 04 16 37 19.5–.76 27.48N–.07 143.1E–.10 27 4.0b,3.9
NEIC IV 04 16 37 21.4–2.6 27.46N 143.00E 24–16 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=15.7km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=10.4km az=2.4.
NEIC Event type se. Error ellipse: s-maj=21.4km s-min=9.2km az=82.0.
ISC IV 04 19 43 45.2–.40 27.89N–.05 139.49E–.07 507 4.3b 98 3-152
NIED IV 04 19 43 00 28.00N 139.80E 500 4.3W ¶16455846
BJI IV 04 19 43 42.3 27.56N 139.77E 533 4.8b,4.6b
ISCJB IV 04 19 43 44.8–.27 27.88N–.03 139.45E–.05 507 4.2b,4.6b
IDC IV 04 19 43 45.4–.48 27.86N 139.50E 510–5 4.6,3.8
JMA IV 04 19 43 46.5–.30 28.04N 139.84E 519–5 4.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ48.00000°,λ173.00000°. NP2:ϕ_s110.00000°,δ85.00000°,λ42.00000°. $M_0$3.52000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=8.0.
IDC Error ellipse: s-maj=10.3km s-min=6.3km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0.
ISC IV 04 22 41 15.6–.72 26.8N–.10 143.76E–.08 35 4.0b 39 1-149
IDC IV 04 22 41 10.7–.91 26.87N 143.81E 0 4.1,3.9 ¶16577663
ISCJB IV 04 22 41 13.7–.49 26.85N–.08 143.84E–.05 33 4.2b,3.9
NEIC IV 04 22 41 15.7–.46 26.81N 143.73E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=16.7km az=6.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=6.8km az=2.7.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=10.5km az=147.0.
ISC IV 05 17 17 54.1–1.4 26.7N–.10 143.7E–.10 10 3.5b 7 1-52
ISCJB IV 05 17 17 52.0–1.2 26.8N–.10 143.8E–.10 10 3.5b ¶17199916
IDC IV 05 17 17 52.1–1.8 26.75N 143.90E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=13.3km az=38.0.
IDC Error ellipse: s-maj=49.6km s-min=21.1km az=73.0.
ISC IV 06 04 28 08.2–.99 27.2N–.10 143.4E–.10 35 4.2b 23 1-125
IDC IV 06 04 28 02.6–.95 27.19N 143.46E 0 4.2,4.0 ¶16509620
ISCJB IV 06 04 28 05.8–.76 27.18N–.09 143.45E–.08 33 4.1b,4.0
NEIC IV 06 04 28 08.2–.60 27.20N 143.35E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=17.6km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=10.4km az=160.5.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.1km az=78.0.
ISC IV 06 07 12 12.4–.46 27.30N–.05 143.30E–.06 34–4 5.0b,3.8s 296 1-149
NIED IV 06 07 12 00 27.20N 143.40E 5 4.4W,3.8s ¶16410406
IDC IV 06 07 12 06.7–.47 27.20N 143.38E 0 4.8,4.7
ISCJB IV 06 07 12 09.8–1.2 27.22N–.03 143.30E–.03 30–8 4.9b,3.8s
MOS IV 06 07 12 10.2–.85 27.16N 143.27E 34 5.2b,3.8s
BJI IV 06 07 12 11.9 27.27N 143.01E 37 5.0b,4.9b
NEIC IV 06 07 12 12.2–.79 27.16N 143.32E 37–6 5.1b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ40.00000°,λ-108.00000°. NP2:ϕ_s353.00000°,δ53.00000°,λ-76.00000°. $M_0$3.97000×10^{15}
IDC Error ellipse: s-maj=12.6km s-min=11.6km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=152.2.
MOS Error ellipse: s-maj=10.7km s-min=5.0km az=117.1.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.0km az=109.0.
ISC IV 06 12 01 59.7–1.5 27.2N–.10 143.4E–.10 10 3.8b 6 1-59
ISCJB IV 06 12 01 57.5–1.2 27.3N–.10 143.5E–.10 10 3.9s,3.8b ¶17200002
IDC IV 06 12 01 59.4–1.5 27.08N 143.34E 0 3.9,3.9s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=14.2km az=172.7.
IDC Error ellipse: s-maj=30.1km s-min=21.1km az=57.0.
ISC IV 06 14 43 50.6–1.6 27.2N–.10 143.4E–.10 10 4.0b 7 1-78
ISCJB IV 06 14 43 48.7–1.4 27.1N–.10 143.5E–.10 10 4.4s,4.1b ¶17200015
IDC IV 06 14 43 49.4–1.8 27.13N 143.35E 0 4.4,4.4s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=15.3km az=177.4.
IDC Error ellipse: s-maj=30.5km s-min=26.1km az=56.0.
ISC IV 06 14 54 11.5–1.2 26.7N–.20 143.6E–.10 10 3.8b 10 1-79
ISCJB IV 06 14 54 09.3–1.1 26.6N–.20 143.7E–.10 10 3.8b ¶17200016
IDC IV 06 14 54 10.1–1.5 26.63N 143.63E 0 3.8,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.0km s-min=13.8km az=25.5.
IDC Error ellipse: s-maj=38.8km s-min=24.5km az=53.0.
ISC IV 06 23 14 42.8–.61 27.18N–.09 143.41E–.08 35 4.1b 49 1-149
IDC IV 06 23 14 37.7–.62 27.19N 143.50E 0 4.1,4.0L ¶16577708
ISCJB IV 06 23 14 40.9–.37 27.16N–.06 143.49E–.05 35 4.1b,2.8s
NEIC IV 06 23 14 42.8–.31 27.20N 143.45E 35 4.9b,2.8s
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=15.0km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=163.5.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.5km az=113.0.
ISC IV 07 00 16 42.0–.53 27.34N–.06 143.37E–.07 35 4.2b 59 1-149
IDC IV 07 00 16 36.3–.48 27.20N 143.47E 0 4.3,4.1 ¶16577712
JMA IV 07 00 16 37.8–.10 27.53N 143.41E 10–2 4.8,4.1
ISCJB IV 07 00 16 40.5–.48 27.47N–.04 143.40E–.05 33 4.2b,4.1
NEIC IV 07 00 16 41.6–.28 27.23N 143.39E 35 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=11.9km az=106.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.4km az=36.6.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.3km az=84.0.
ISC IV 07 00 53 44.7–.53 28.78N–.07 139.8E–.10 423 3.4b 35 3-122
ISCJB IV 07 00 53 43.7–.40 28.76N–.05 139.71E–.10 423 3.4b ¶17200066
IDC IV 07 00 53 44.2–.69 28.69N 139.68E 415–9 3.9,3.3
JMA IV 07 00 53 44.5–.10 28.86N 140.15E 435 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.5km az=158.2.
IDC Error ellipse: s-maj=20.5km s-min=12.1km az=70.0.
JMA Error ellipse: s-maj=2.2km s-min=5.8km az=-1.0.
ISC IV 07 03 11 50.6–1.1 27.2N–.20 143.4E–.10 10 3.8b 8 1-72
ISCJB IV 07 03 11 48.5–.89 27.2N–.10 143.48E–.10 10 3.8b ¶17200074
IDC IV 07 03 11 49.1–1.0 27.20N 143.39E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=11.7km az=167.4.
IDC Error ellipse: s-maj=23.9km s-min=19.7km az=144.0.
ISC IV 07 04 00 04.5–.68 27.23N–.09 143.34E–.08 35 4.2b 34 1-149
IDC IV 07 03 59 59.1–.63 27.19N 143.41E 0 4.2,4.0 ¶16509623
ISCJB IV 07 04 00 02.0–.58 27.22N–.07 143.47E–.06 33 4.1b,2.4s
NEIC IV 07 04 00 04.5–.44 27.22N 143.35E 35 4.6b,2.4s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=14.7km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.3km az=158.8.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.9km az=71.0.
ISC IV 07 15 02 25.5–.72 27.2N–.10 143.39E–.08 35 4.3b 33 1-149
IDC IV 07 15 02 20.2–.63 27.15N 143.42E 0 4.4,4.2 ¶16577725
ISCJB IV 07 15 02 23.6–.52 27.17N–.07 143.44E–.06 33 4.4b,4.2
NEIC IV 07 15 02 25.6–.36 27.14N 143.30E 35 4.8b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=17.0km s-min=15.4km az=38.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=7.0km az=168.3.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.9km az=55.0.
ISC IV 07 17 24 51.4–1.1 27.1N–.20 143.6E–.10 10 3.7b 8 1-72
ISCJB IV 07 17 24 49.4–.94 27.1N–.10 143.61E–.10 10 3.6b ¶17200140
IDC IV 07 17 24 49.8–1.1 27.06N 143.61E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=12.4km az=179.3.
IDC Error ellipse: s-maj=30.3km s-min=21.4km az=87.0.
ISC IV 07 17 39 13.6–.67 27.12N–.09 143.32E–.08 35 4.2b 45 1-87

IDC IV 07 17 39 08.3–.64 27.08N 143.35E 0 4.2,4.1b **¶16577730**
ISCJB IV 07 17 39 11.0–.47 27.03N–.07 143.43E–.06 33 4.2b,4.1b
NEIC IV 07 17 39 12.4–3.6 27.07N 143.36E 28–24 4.7b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=15.5km s-min=14.2km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.1km az=173.7.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.3km az=97.0.
ISC IV 07 17 40 03.1–.90 27.1N–.10 143.37E–.09 35 4.0b 25 1-83
IDC IV 07 17 39 57.7–.93 27.07N 143.44E 0 4.1,3.9 **¶16577733**
ISCJB IV 07 17 40 00.7–.60 27.06N–.08 143.47E–.06 33 4.0b,3.9
NEIC IV 07 17 40 03.1–.44 27.06N 143.37E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=20.0km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=8.1km az=177.2.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.2km az=73.0.
IDC IV 07 19 01 08.3–1.3 26.56N 141.70E 0 4.0,3.9
¶17200149
IDC Error ellipse: s-maj=31.8km s-min=16.1km az=138.0.
ISC IV 08 04 40 31.3–.48 27.17N–.07 143.48E–.06 10 4.4b 87 1-150
ISCJB IV 08 04 40 29.3–.32 27.15N–.05 143.52E–.04 10 4.4b,3.6s **¶16424645**
IDC IV 08 04 40 29.9–.50 27.16N 143.47E 0 4.3,4.2
NEIC IV 08 04 40 31.3–3.6 27.12N 143.48E 11–21 4.5b,4.2
BJI IV 08 04 40 33.7 27.10N 143.24E 34 5.0b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.5km az=165.7.
IDC Error ellipse: s-maj=13.5km s-min=12.1km az=75.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.5km az=96.0.
ISC IV 08 08 55 41.1–1.2 27.0N–.20 143.7E–.10 10 3.6b 8 1-72
ISCJB IV 08 08 55 39.1–1.1 27.0N–.10 143.71E–.10 10 3.5b **¶17200223**
IDC IV 08 08 55 39.4–1.4 26.96N 143.94E 0 3.7,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=12.8km az=175.0.
IDC Error ellipse: s-maj=31.0km s-min=27.9km az=142.0.
ISC IV 08 11 52 22.8–1.0 27.2N–.20 143.47E–.10 10 3.8b 10 1-78
ISCJB IV 08 11 52 20.8–.81 27.2N–.10 143.56E–.09 10 3.8b **¶17200241**
IDC IV 08 11 52 21.2–.95 27.19N 143.58E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=10.8km az=168.1.
IDC Error ellipse: s-maj=26.3km s-min=20.1km az=122.0.
ISC IV 09 06 51 04.3–1.1 26.5N–.20 143.5E–.10 38 3.7b 9 1-84
IDC IV 09 06 50 58.8–1.1 26.52N 143.56E 0 3.8,3.7 **¶17200312**
ISCJB IV 09 06 51 02.3–1.0 26.5N–.10 143.6E–.10 38 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 09 23 24 21.4–.70 26.94N–.09 143.73E–.08 10 4.0b 37 1-149
ISCJB IV 09 23 24 19.8–.53 26.97N–.07 143.77E–.06 10 3.9b,2.9s **¶16525096**
IDC IV 09 23 24 19.8–.69 26.98N 143.85E 0 4.0,3.9
NEIC IV 09 23 24 21.5–.46 27.01N 143.82E 10 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=7.2km az=2.9.
IDC Error ellipse: s-maj=16.9km s-min=16.6km az=59.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.7km az=53.0.
ISC IV 10 17 55 27.4–1.8 26.9N–.30 143.49E–.08 10 3.7b 12 1-149
ISCJB IV 10 17 55 27.0–1.6 27.1N–.20 143.50E–.10 10 3.7b,3.3s **¶17200485**
IDC IV 10 17 55 27.3–1.7 27.11N 143.50E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.1km s-min=10.0km az=167.6.
IDC Error ellipse: s-maj=43.0km s-min=19.5km az=176.0.
ISC IV 10 20 02 56.7–.42 28.14N–.04 140.03E–.04 377–3 4.6b 491 2-152
NIED IV 10 20 02 00 28.10N 140.30E 360 4.9W **¶16427074**
ISCJB IV 10 20 02 55.9–.28 28.11N–.02 139.93E–.03 377–2 4.5b
IDC IV 10 20 02 56.1–.42 28.09N 140.03E 373–4 4.9,4.3
BJI IV 10 20 02 56.4 28.11N 139.81E 379 4.7b,4.5b
JMA IV 10 20 02 57.1–.10 28.11N 140.25E 380 4.7,4.5b
NEIC IV 10 20 02 57.2–.60 28.11N 139.86E 380–6 4.5b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ28.00000°,λ-115.00000°. NP2:ϕ_s342.00000°,δ65.00000°,λ-77.00000°. $M_0$2.40000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.4km az=151.4.
IDC Error ellipse: s-maj=9.4km s-min=7.3km az=62.0.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.1km az=158.0.
ISC IV 10 21 04 55.9–.81 27.2N–.10 143.43E–.09 35 3.7b 23 1-149
IDC IV 10 21 04 50.6–.74 27.19N 143.60E 0 4.1,4.1s **¶16577782**
ISCJB IV 10 21 04 53.8–.59 27.19N–.08 143.49E–.06 33 4.1s,3.8b
NEIC IV 10 21 04 55.8–.53 27.21N 143.49E 35 4.4b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=16.7km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=7.4km az=162.9.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=11.3km az=92.0.
ISC IV 13 07 49 10.8–.94 26.6N–.10 142.7E–.20 31 3.7b 15 1-79
ISCJB IV 13 07 49 08.5–.72 26.59N–.10 142.8E–.10 31 3.7b,2.4s **¶17200878**
IDC IV 13 07 49 11.0–5.0 26.65N 142.69E 33–36 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=10.5km az=143.0.
IDC Error ellipse: s-maj=28.0km s-min=17.0km az=82.0.
ISC IV 15 03 26 20.1–.61 28.50N–.10 139.6E–.10 448 3.6b 27 3-152
IDC IV 15 03 26 19.0–.66 28.56N 139.61E 425–7 4.1,3.5 **¶17201081**
ISCJB IV 15 03 26 19.1–.53 28.49N–.09 139.6E–.10 448 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 13 17 02.1–.56 28.93N–.06 140.9E–.10 90 4.1b 53 2-152
NIED IV 15 13 17 00 29.00N 141.40E 83 4.1W **¶16577829**
JMA IV 15 13 17 01.5 29.00N 141.41E 143 4.5
IDC IV 15 13 17 02.0–1.1 28.87N 140.72E 92–10 4.1,3.9
NEIC IV 15 13 17 02.2–.76 28.89N 140.74E 95–7 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ29.00000°,λ104.00000°. NP2:ϕ_s306.00000°,δ62.00000°,λ83.00000°. $M_0$1.63000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=7.4km az=73.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=6.6km az=80.0.
IDC IV 16 07 46 11.4–1.4 28.06N 140.21E 0 3.9,3.6
¶17201199
IDC Error ellipse: s-maj=44.4km s-min=25.4km az=106.0.
ISC IV 16 09 20 26.5–.33 27.98N–.03 139.46E–.04 521–3 4.7b 762 3-158
NIED IV 16 09 20 00 27.90N 139.60E 540 5.0W **¶601721538**
BJI IV 16 09 20 23.0 27.83N 139.44E 490 5.1b,4.8b
GCMT IV 16 09 20 25.7–.50 27.88N 139.24E 517–4 5.2W,4.8b
ISCJB IV 16 09 20 25.8–.20 27.92N–.02 139.42E–.02 521–2 4.7b,4.8b
NEIC IV 16 09 20 25.7–.13 27.94N 139.40E 506 4.8b,4.8b
JMA IV 16 09 20 25.3–.20 27.92N 139.59E 529–4 5.1,4.8b
IDC IV 16 09 20 26.9–.46 27.95N 139.39E 523–4 4.9,4.1
MOS IV 16 09 20 26.7–.95 27.98N 139.35E 533 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ57.00000°,λ-161.00000°. NP2:ϕ_s310.00000°,δ74.00000°,λ-34.00000°. $M_0$3.83000×10^{16}
GCMT Error ellipse: s-maj=7.8km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s53,c72;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.99±.30 $M_{\theta\theta}$4.95±.40; $M_{\phi\phi}$-2.96±.48; $M_{r\theta}$3.47±.57; $M_{\theta\phi}$-1.18±.37; $M_{\phi r}$-4.72±.40; Best double couple: NP1:ϕ_s317.00000°,δ81.00000°,λ-56.00000°. NP2:ϕ_s60.00000°,δ35.00000°,λ-163.00000°. Principal axes: T 7.3330,Plg28.0000°,Azm20.0000°; N 0.0750,Plg33.0000°,Azm130.0000°; P -7.4080,Plg44.0000°,Azm260.0000° $M_0$7.37000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.4km az=141.7.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=7.7km s-min=5.6km az=82.0.
MOS Error ellipse: s-maj=7.7km s-min=4.4km az=105.1.
ISC IV 18 00 11 31.7–.77 26.8N–.10 143.96E–.07 10 4.1b,3.2s 26 2-148
ISCJB IV 18 00 11 30.0–.59 26.8N–.10 143.98E–.06 10 3.9b,3.2s **¶16532040**
IDC IV 18 00 11 30.1–.69 26.84N 144.07E 0 4.2L,4.1
NEIC IV 18 00 11 31.7–.43 26.85N 143.98E 10 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=7.4km az=4.7.
IDC Error ellipse: s-maj=18.8km s-min=18.3km az=78.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.8km az=26.0.
ISC IV 18 01 30 37.2–.41 26.81N–.07 143.76E–.05 10 4.6b,3.4s 201 1-149
BJI IV 18 01 30 33.5 26.58N 144.00E 10 4.9b,4.8s **¶16447743**
ISCJB IV 18 01 30 35.9–.24 26.81N–.04 143.79E–.04 10 4.5b,3.4s
IDC IV 18 01 30 35.3–.50 26.79N 143.97E 0 4.4,4.4
NEIC IV 18 01 30 37.3–.20 26.81N 143.79E 10 4.7b,4.4
MOS IV 18 01 30 37.5–1.2 26.77N 143.87E 23 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.7km az=1.0.
IDC Error ellipse: s-maj=15.9km s-min=11.8km az=89.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.0km az=169.0.
MOS Error ellipse: s-maj=10.4km s-min=6.1km az=113.8.
ISC IV 18 02 04 20.0–.63 27.00N–.08 143.85E–.07 35 4.2b 54 1-149
NIED IV 18 02 04 00 27.00N 144.00E 5 3.7W **¶16532038**
IDC IV 18 02 04 14.2–.59 26.85N 143.99E 0 4.3,4.2
NEIC IV 18 02 04 15.8–.34 26.87N 143.96E 10 4.6b,4.2
JMA IV 18 02 04 16.6–.10 27.02N 143.99E 62 4.3,4.2
ISCJB IV 18 02 04 17.8–.45 26.96N–.06 143.93E–.05 33 4.2b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ38.00000°,λ-57.00000°. NP2:ϕ_s2.00000°,δ59.00000°,λ-113.00000°. $M_0$4.27000×10^{14}
NEIC Event type se.
ISCJB Event type se.
ISC IV 18 04 11 51.3–.73 26.8N–.10 143.93E–.07 10 4.1b 32 2-148
ISCJB IV 18 04 11 49.4–.48 26.75N–.08 144.00E–.06 10 4.1b,2.6s **¶16449034**
IDC IV 18 04 11 49.6–.64 26.78N 143.96E 0 4.2,4.0
NEIC IV 18 04 11 51.3–.40 26.84N 143.96E 10 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=7.3km az=9.4.
IDC Error ellipse: s-maj=19.2km s-min=16.8km az=103.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.7km az=69.0.
ISC IV 18 06 11 59.3–1.1 26.9N–.20 144.0E–.10 10 3.8b 8 2-79
ISCJB IV 18 06 11 57.4–1.0 26.9N–.20 144.03E–.10 10 3.6b **¶17201395**
IDC IV 18 06 11 57.5–1.2 26.87N 144.11E 0 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.4km s-min=12.3km az=179.1.
IDC Error ellipse: s-maj=31.6km s-min=26.1km az=148.0.
ISC IV 18 23 05 48.4–.84 26.9N–.10 143.80E–.09 10 4.0b 25 1-92
NIED IV 18 23 05 00 27.30N 143.80E 17 3.7W **¶16631133**
ISCJB IV 18 23 05 46.3–.58 26.91N–.08 143.94E–.07 10 3.9b
IDC IV 18 23 05 46.6–.88 26.92N 143.99E 0 4.0,4.0L
NEIC IV 18 23 05 48.0–.46 26.89N 143.97E 10 4.3b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ53.00000°,λ9.00000°. NP2:ϕ_s301.00000°,δ83.00000°,λ143.00000°. $M_0$3.89000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=9.1km az=8.6.
IDC Error ellipse: s-maj=22.1km s-min=19.4km az=90.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=10.1km az=76.0.
ISC IV 19 04 51 37.0–.43 27.99N–.04 140.27E–.05 296–3 4.4b 355 2-152
NIED IV 19 04 51 00 28.10N 140.60E 340 4.5W **¶16446645**
BJI IV 19 04 51 34.6 27.81N 140.37E 304 4.8b,4.6b
ISCJB IV 19 04 51 35.5–.27 27.97N–.02 140.23E–.03 292–2 4.4b,4.6b
MOS IV 19 04 51 36.1–.89 28.00N 140.09E 298 4.5b,4.6b
JMA IV 19 04 51 37.5–.20 28.12N 140.64E 290–4 4.5,4.6b
IDC IV 19 04 51 38.0–1.1 27.98N 140.07E 305–9 4.7,4.1
NEIC IV 19 04 51 40.1–.62 27.97N 140.11E 324–6 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s115.00000°,δ33.00000°,λ154.00000°. NP2:ϕ_s227.00000°,δ76.00000°,λ60.00000°. $M_0$6.14000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.7km az=11.9.
MOS Error ellipse: s-maj=9.0km s-min=5.0km az=102.7.
JMA Error ellipse: s-maj=2.2km s-min=5.9km az=-1.0.
IDC Error ellipse: s-maj=10.1km s-min=7.2km az=86.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=132.0.
IDC IV 19 04 52 36.0–2.8 28.10N 140.43E 539–34 4.2,3.4
¶17201471
IDC Error ellipse: s-maj=32.6km s-min=20.2km az=96.0.
ISC IV 19 15 47 10.5–.72 26.37N–.08 140.7E–.20 400 3.4b 23 1-84
ISCJB IV 19 15 47 09.2–.55 26.32N–.06 140.6E–.10 400 3.4b **¶17201517**
IDC IV 19 15 47 10.8–1.0 26.36N 140.60E 399–12 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=8.6km az=177.0.
IDC Error ellipse: s-maj=25.0km s-min=9.1km az=82.0.
IDC IV 22 02 21 21.6–1.2 26.23N 141.81E 0 4.2,4.0
NIED IV 22 02 21 00 26.30N 142.60E 53 4.3W,4.0 **¶17201774**
IDC Error ellipse: s-maj=67.1km s-min=18.4km az=108.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ34.00000°,λ127.00000°. NP2:ϕ_s154.00000°,δ64.00000°,λ68.00000°. $M_0$3.60000×10^{15}
IDC IV 23 17 59 05.5–1.4 27.01N 141.55E 0 3.8,3.5b
NIED IV 23 17 59 00 27.80N 142.70E 50 4.3W,3.5b **¶17201898**
IDC Error ellipse: s-maj=36.4km s-min=16.1km az=151.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ14.00000°,λ-174.00000°. NP2:ϕ_s206.00000°,δ89.00000°,λ-76.00000°. $M_0$2.75000×10^{15}
ISC IV 24 01 23 59.2–1.0 27.0N–.20 143.8E–.10 35 3.6b 9 1-79
IDC IV 24 01 23 54.0–.94 27.00N 143.76E 0 3.7,3.5 **¶17201920**
ISCJB IV 24 01 23 57.1–.84 27.0N–.10 143.82E–.09 33 3.5b,2.7s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 24 20 30 46.7–1.2 26.4N–.20 143.7E–.10 10 3.6b 8 2-72
ISCJB IV 24 20 30 44.3–1.0 26.4N–.10 143.9E–.10 10 3.5b **¶17201982**
IDC IV 24 20 30 45.4–1.1 26.38N 143.66E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.7km s-min=12.1km az=38.0.
IDC Error ellipse: s-maj=30.9km s-min=19.9km az=60.0.
ISC IV 25 08 36 41.2–.95 26.8N–.20 143.78E–.10 10 3.6b 9 1-80
ISCJB IV 25 08 36 39.5–.77 26.8N–.10 143.85E–.09 10 3.7b **¶17202028**
IDC IV 25 08 36 39.7–.85 26.81N 143.91E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=11.2km az=11.4.
IDC Error ellipse: s-maj=29.1km s-min=18.6km az=110.0.
IDC IV 25 11 18 58.4–.84 27.37N 140.96E 342–21 4.2,3.3
¶17202044
IDC Error ellipse: s-maj=87.4km s-min=17.4km az=77.0.
ISC IV 25 20 37 53.5–1.2 26.8N–.10 144.1E–.10 10 3.6b 10 2-72
ISCJB IV 25 20 37 51.5–1.0 26.8N–.10 144.19E–.10 10 3.4b **¶17202076**
IDC IV 25 20 37 51.7–1.3 26.78N 144.21E 0 3.8L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=12.4km az=178.0.
IDC Error ellipse: s-maj=28.9km s-min=25.3km az=112.0.
ISC IV 27 15 51 48.8–.96 26.6N–.10 143.50E–.10 10 3.5b 12 1-79
ISCJB IV 27 15 51 46.8–.78 26.6N–.10 143.58E–.10 10 3.5b **¶17202242**
IDC IV 27 15 51 47.0–1.0 26.57N 143.58E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=11.3km az=30.7.
IDC Error ellipse: s-maj=26.0km s-min=19.3km az=82.0.
ISC IV 27 16 03 32.4–.81 26.79N–.05 143.68E–.05 25–5 4.8b,3.8s 289 1-149
NIED IV 27 16 03 00 26.90N 143.70E 8 4.4W,3.8s **¶16463992**
IDC IV 27 16 03 28.3–.51 26.63N 143.70E 0 4.6,4.6
NEIC IV 27 16 03 29.7–.20 26.68N 143.68E 10 4.9b,4.6
ISCJB IV 27 16 03 31.6–.21 26.74N–.03 143.69E–.03 33 4.7b,3.8s
MOS IV 27 16 03 31.1–.88 26.64N 143.75E 34 4.9b,3.8s
JMA IV 27 16 03 32.2–.30 26.87N 143.70E 40 4.5,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ44.00000°,λ-148.00000°. NP2:ϕ_s8.00000°,δ68.00000°,λ-51.00000°. $M_0$4.65000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=12.3km az=69.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.0km az=152.0.

ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.5km az=160.4.
MOS Error ellipse: s-maj=9.7km s-min=5.3km az=112.3.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC IV 27 16 53 19.8–1.2 26.7N–.10 143.6E–.10 10 3.8b 11 1-72
ISCJB IV 27 16 53 17.9–.99 26.6N–.10 143.7E–.10 10 3.6b **¶17202244**
IDC IV 27 16 53 17.8–1.3 26.65N 143.78E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=12.7km az=21.6.
IDC Error ellipse: s-maj=28.3km s-min=23.6km az=75.0.
ISC IV 29 03 31 51.1–.75 26.3N–.10 140.6E–.10 400 3.4b 29 2-148
ISCJB IV 29 03 31 50.4–.58 26.22N–.07 140.4E–.10 400 3.4b **¶16505574**
IDC IV 29 03 31 51.6–.53 26.39N 140.77E 414–5 4.0,3.4
JMA IV 29 03 31 54.4–.20 26.68N 141.18E 417 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=10.1km az=2.3.
IDC Error ellipse: s-maj=19.5km s-min=12.3km az=98.0.
JMA Error ellipse: s-maj=4.4km s-min=7.0km az=-1.0.
ISC IV 29 04 01 27.4–1.0 27.0N–.10 143.58E–.08 10 4.0b 18 1-79
ISCJB IV 29 04 01 25.1–.71 27.01N–.09 143.72E–.08 10 4.0b **¶16577913**
IDC IV 29 04 01 25.9–1.0 26.91N 143.62E 0 3.9,3.8
NEIC IV 29 04 01 27.3–.67 26.96N 143.62E 10 4.1b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=9.7km az=7.8.
IDC Error ellipse: s-maj=23.7km s-min=20.1km az=62.0.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=9.7km az=77.0.
ISC IV 29 11 06 52.2–.43 27.03N–.06 143.75E–.06 35 4.6b,3.4s 182 1-149
NIED IV 29 11 06 00 27.10N 143.70E 8 4.3W,3.4s **¶16485464**
BJI IV 29 11 06 45.9 26.83N 143.82E 12 4.7b,4.7s
IDC IV 29 11 06 46.6–.46 26.99N 143.76E 0 4.5,4.4
NEIC IV 29 11 06 48.4–.18 27.01N 143.77E 10 4.7b,4.4
MOS IV 29 11 06 48.9–.92 26.99N 143.82E 27 4.7b,4.4
ISCJB IV 29 11 06 50.3–.25 27.04N–.04 143.73E–.03 33 4.5b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ21.00000°,λ-79.00000°. NP2:ϕ_s144.00000°,δ69.00000°,λ-94.00000°. $M_0$3.18000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC IV 29 12 08 31.5–2.3 27.1N–.30 143.7E–.10 10 3.6b 7 1-72
IDC IV 29 12 08 29.7–3.1 27.02N 143.70E 0 3.8,3.8L **¶17202380**
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=21.3km az=168.0.
JMA IV 29 13 31 53.8–.20 28.54N 140.77E 297 3.8
¶600602601
JMA Error ellipse: s-maj=3.3km s-min=7.8km az=-1.0.
IDC IV 29 14 51 45.6–1.7 26.59N 141.14E 0 3.8,3.7L
¶17202391
IDC Error ellipse: s-maj=43.6km s-min=18.4km az=132.0.
IDC V 01 18 47 08.1–2.9 27.72N 142.05E 0 3.4,3.3
¶17202550
IDC Error ellipse: s-maj=131.0km s-min=26.5km az=76.0.
ISC V 02 23 02 55.4–.94 27.8N–.20 139.9E–.20 478 3.5b 9 2-72
ISCJB V 02 23 02 54.1–.69 27.8N–.10 139.8E–.20 478 3.3b **¶17202647**
IDC V 02 23 02 55.0–.69 27.80N 139.83E 470–13 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=14.3km az=135.3.
IDC Error ellipse: s-maj=31.2km s-min=14.2km az=75.0.
IDC V 04 02 35 17.7–1.4 27.10N 143.47E 0 4.0,3.7L
¶17202723
IDC Error ellipse: s-maj=70.8km s-min=27.2km az=101.0.
ISC V 04 11 22 55.5–1.2 27.2N–.20 143.3E–.10 35 3.6b 7 1-72
ISCJB V 04 11 22 53.4–1.0 27.1N–.10 143.43E–.10 33 3.6b **¶17202749**
IDC V 04 11 22 55.4–8.3 27.16N 143.32E 33–64 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=12.4km az=6.4.
IDC Error ellipse: s-maj=37.0km s-min=24.0km az=92.0.
ISC V 05 10 01 46.3–.83 27.7N–.10 139.9E–.20 479 3.4b 16 2-82
ISCJB V 05 10 01 45.5–.58 27.62N–.08 139.6E–.10 479 3.4b **¶17202836**
IDC V 05 10 01 47.1–.58 27.73N 139.97E 489–8 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=10.6km az=163.2.
IDC Error ellipse: s-maj=19.0km s-min=10.6km az=77.0.
ISC V 07 02 10 20.7–.83 28.1N–.10 139.5E–.20 507 3.2b 11 3-122
ISCJB V 07 02 10 19.5–.71 28.1N–.10 139.5E–.20 507 3.2b **¶17202967**
IDC V 07 02 10 19.6–.98 28.13N 139.36E 489–11 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=16.0km az=161.7.
IDC Error ellipse: s-maj=25.5km s-min=13.6km az=101.0.
IDC V 09 13 19 13.3–1.1 26.66N 144.27E 0 3.5,3.4
¶17203124
IDC Error ellipse: s-maj=32.4km s-min=22.5km az=76.0.
ISC V 09 14 52 40.7–.56 27.15N–.08 143.48E–.06 35 4.4b,3.2s 133 1-149
IDC V 09 14 52 35.2–.58 27.14N 143.55E 0 4.4,4.2 **¶16503263**
NEIC V 09 14 52 35.5–4.8 27.16N 143.49E 1–29 4.6b,4.2
ISCJB V 09 14 52 39.0–.34 27.18N–.06 143.46E–.04 33 4.3b,3.3s
MOS V 09 14 52 38.8–1.0 27.14N 143.46E 33 4.6b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=15.1km az=120.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.5km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.7km az=171.0.
MOS Error ellipse: s-maj=13.4km s-min=6.9km az=109.4.
ISC V 10 06 37 07.5–.83 27.2N–.10 143.49E–.09 35 3.9b 19 1-149
IDC V 10 06 37 02.1–.71 27.12N 143.61E 0 4.2,4.0 **¶16709332**
ISCJB V 10 06 37 05.1–.69 27.10N–.10 143.60E–.08 33 3.9b,2.7s
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 07 30 41.8–.82 27.1N–.20 143.50E–.10 35 3.8b 13 1-149
IDC V 10 07 30 36.6–.71 27.16N 143.51E 0 4.1,3.9 **¶17203189**
ISCJB V 10 07 30 39.8–.66 27.1N–.10 143.59E–.08 33 3.9b,3.6s
ISC Event type ke.
ISCJB Event type ke.
NIED V 10 08 15 00 27.00N 143.60E 14 3.5W
¶601626095
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ73.00000°,λ-164.00000°. NP2:ϕ_s198.00000°,δ75.00000°,λ-18.00000°. $M_0$2.06000×10^{14}
ISC V 12 22 05 08.7–1.4 27.0N–.10 143.8E–.10 35 3.8b 9 1-59
IDC V 12 22 05 04.0–1.7 26.85N 143.71E 0 4.0L,3.8 **¶17203509**
ISCJB V 12 22 05 06.4–1.2 26.8N–.20 143.8E–.10 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 12 22 43 32.6–1.0 27.0N–.10 143.8E–.10 35 3.8b 11 1-79
IDC V 12 22 43 27.4–1.0 26.94N 143.79E 0 4.0L,3.8 **¶17203512**
ISCJB V 12 22 43 30.3–.81 26.9N–.10 143.84E–.09 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC V 13 15 38 21.7–1.2 26.19N 141.38E 0 3.6,3.5L
¶17203557
IDC Error ellipse: s-maj=37.9km s-min=20.6km az=104.0.
ISC V 14 15 40 03.1–.90 26.8N–.10 144.15E–.09 35 4.0b 23 2-83
IDC V 14 15 39 57.4–.96 26.75N 144.42E 0 4.0,3.8 **¶16709866**
NEIC V 14 15 39 58.5–.78 26.81N 144.37E 10 4.1b,3.8
ISCJB V 14 15 40 01.4–.63 26.64N–.09 144.14E–.07 33 3.9b,2.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 15 06 10 28.2–1.1 27.0N–.10 143.8E–.10 35 3.7b 13 1-87
IDC V 15 06 10 22.7–1.1 26.92N 143.90E 0 3.9,3.8L **¶17203669**
ISCJB V 15 06 10 26.0–.93 26.9N–.10 143.85E–.08 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC V 15 08 30 16.5–.81 27.16N–.07 143.72E–.08 35 4.1b 37 1-149
NIED V 15 08 30 00 27.40N 143.60E 8 3.6W **¶16684768**
IDC V 15 08 30 10.4–.84 26.96N 143.83E 0 4.1,3.9
NEIC V 15 08 30 12.1–.48 26.98N 143.75E 10 4.6b,3.9
JMA V 15 08 30 13.4–.10 27.36N 143.64E 13–5 4.5,3.9
ISCJB V 15 08 30 15.9–.74 27.35N–.05 143.64E–.06 33 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ71.00000°,λ-162.00000°. NP2:ϕ_s183.00000°,δ73.00000°,λ-20.00000°. $M_0$2.94000×10^{14}
NEIC Event type se.
ISCJB Event type se.
IDC V 15 10 49 18.4–.94 27.35N 144.42E 0 3.8,3.5
¶17203687
IDC Error ellipse: s-maj=32.1km s-min=24.0km az=93.0.
ISC V 15 18 46 49.9–.87 26.7N–.10 144.08E–.09 31 4.2b 22 2-148
IDC V 15 18 46 45.2–.86 26.65N 144.16E 0 4.3,4.1 **¶16709962**
NEIC V 15 18 46 46.6–.43 26.68N 144.16E 10 4.3b,4.1
ISCJB V 15 18 46 47.7–.69 26.76N–.07 144.16E–.07 31 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 17 05 28 34.6–.68 27.0N–.10 143.76E–.08 35 3.9b 27 1-149
IDC V 17 05 28 29.3–.64 26.90N 143.89E 0 4.1,4.0L **¶16710062**
NEIC V 17 05 28 30.8–.46 26.93N 143.86E 10 4.1b,4.0L
ISCJB V 17 05 28 32.5–.57 26.88N–.08 143.83E–.06 33 3.8b,4.0L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 17 12 42 00.2–1.1 27.04N–.08 143.6E–.10 35 3.4b 33 1-72
IDC V 17 12 41 54.7–1.1 26.85N 143.74E 0 3.9,3.9L **¶17203820**
JMA V 17 12 42 00.2 27.40N 143.45E 5 5.0,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=17.5km az=83.0.
ISC V 17 22 07 17.9–.62 26.62N–.09 143.76E–.08 31 4.2b 51 1-149
IDC V 17 22 07 13.3–.79 26.58N 143.78E 0 4.1,3.9 **¶16710137**
NEIC V 17 22 07 14.7–.22 26.60N 143.80E 10 4.6b,3.9
ISCJB V 17 22 07 15.8–.37 26.57N–.05 143.81E–.06 31 4.3b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 18 16 44 47.1–1.1 26.8N–.20 143.6E–.10 35 3.6b 7 1-149
IDC V 18 16 44 41.7–1.1 26.87N 143.71E 0 3.9,3.8 **¶17203891**
ISC Event type ke.
IDC Error ellipse: s-maj=28.2km s-min=20.2km az=75.0.
ISC V 19 05 49 30.2–.57 28.10N–.07 141.2E–.10 100 3.9b 37 1-151
ISCJB V 19 05 49 28.1–.45 28.11N–.05 141.2E–.10 100 3.9b **¶16560102**
JMA V 19 05 49 28.8 28.41N 142.10E 92 4.1
IDC V 19 05 49 30.7–.61 27.99N 141.28E 104–5 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=4.8km az=157.7.
JMA Error ellipse: s-maj=1.1km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=8.4km az=74.0.
IDC V 20 02 00 56.4–1.3 26.83N 143.99E 0 3.8,3.8L
¶17204004
IDC Error ellipse: s-maj=44.3km s-min=27.3km az=83.0.
ISC V 20 17 48 01.4–1.3 26.7N–.10 143.6E–.20 38 3.8b 9 1-79
IDC V 20 17 47 56.1–1.6 26.61N 143.63E 0 3.8,3.7 **¶17204062**
ISCJB V 20 17 47 59.4–1.1 26.6N–.10 143.7E–.10 38 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 22 03 39 09.9–2.5 26.83N 143.65E 0 3.8,3.6
¶17204180
IDC Error ellipse: s-maj=50.2km s-min=22.3km az=46.0.
IDC V 22 06 53 38.4–2.9 26.96N 143.81E 0 3.6,3.4b
¶17204200
IDC Error ellipse: s-maj=62.0km s-min=28.2km az=54.0.
ISC V 22 15 21 18.4–1.3 26.9N–.10 143.7E–.10 35 4.0b 12 1-79
ISCJB V 22 15 21 14.7–.96 27.03N–.09 143.87E–.08 33 4.3s,3.9b **¶16593305**
IDC V 22 15 21 14.9–1.4 26.72N 143.57E 0 4.3s,4.3
NEIC V 22 15 21 16.0–1.1 26.86N 143.65E 15 4.2b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.5km az=27.2.
IDC Error ellipse: s-maj=32.8km s-min=19.4km az=64.0.
NEIC Event type se. Error ellipse: s-maj=32.9km s-min=12.7km az=79.0.
IDC V 22 22 44 10.6–1.9 26.91N 143.86E 0 3.9,3.8b
¶17204262
IDC Error ellipse: s-maj=38.4km s-min=27.5km az=52.0.
ISC V 23 01 29 18.1–.92 26.9N–.10 143.69E–.09 35 4.0b 31 1-87
IDC V 23 01 29 12.4–.91 26.85N 143.78E 0 4.0,3.8 **¶16640720**
NEIC V 23 01 29 14.2–.53 26.86N 143.71E 10 4.5b,3.8
JMA V 23 01 29 14.1–.10 27.28N 143.67E 0 4.5b,3.8
ISCJB V 23 01 29 15.6–.64 27.04N–.06 143.77E–.06 33 4.0b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 23 02 00 33.3–1.5 26.9N–.10 143.7E–.10 35 3.6b 7 1-54
IDC V 23 02 00 29.0–1.7 26.81N 143.65E 0 3.8,3.6 **¶17204269**
ISCJB V 23 02 00 31.6–1.3 26.8N–.20 143.7E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 23 02 22 18.6–1.2 26.9N–.10 143.7E–.10 35 3.9b 9 1-59
IDC V 23 02 22 13.5–1.1 26.81N 143.80E 0 4.0,3.9L **¶17204271**
ISCJB V 23 02 22 16.3–.94 26.8N–.10 143.8E–.10 33 3.8b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC V 23 02 24 54.6–.00 26.9N–.10 143.6E–.10 35 3.7b 12 1-95
IDC V 23 02 24 49.4–.92 26.79N 143.70E 0 3.9,3.8b **¶17204272**
ISCJB V 23 02 24 52.6–.80 26.8N–.10 143.71E–.09 33 3.7b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC V 23 05 07 37.8–.54 26.87N–.07 143.54E–.07 35 4.4b,3.7s 92 1-149
IDC V 23 05 07 32.2–.63 26.84N 143.72E 0 4.4,4.2 **¶16535861**
JMA V 23 05 07 34.5–.10 27.32N 143.57E 0 4.7,4.2
NEIC V 23 05 07 34.2–.34 26.85N 143.58E 10 4.6b,4.2
ISCJB V 23 05 07 36.1–.34 26.94N–.04 143.62E–.04 33 4.3b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 24 21 46 25.5–1.3 26.7N–.10 143.8E–.10 31 3.7b 9 1-59
IDC V 24 21 46 20.9–1.4 26.71N 143.83E 0 3.7,3.6 **¶17204409**
ISCJB V 24 21 46 23.6–1.0 26.6N–.10 143.9E–.10 31 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 26 11 55 36.2–.68 27.76N–.06 143.43E–.08 35 4.0b 40 1-149
IDC V 26 11 55 29.9–.71 27.51N 143.64E 0 4.2,4.1 **¶16710975**
NEIC V 26 11 55 31.6–.48 27.59N 143.61E 10 4.0b,4.1
JMA V 26 11 55 34.2–.10 27.96N 143.17E 10 4.7,4.1
ISCJB V 26 11 55 35.2–.53 27.92N–.03 143.32E–.06 33 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 28 01 45 15.8–.90 27.4N–.10 143.4E–.10 35 3.8b 15 1-149
IDC V 28 01 45 10.6–.86 27.37N 143.49E 0 3.9,3.8 **¶17204603**
ISCJB V 28 01 45 13.7–.83 27.3N–.10 143.5E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC V 28 13 05 27.4–1.7 26.40N 140.30E 0 3.7L,3.6
¶17204630
IDC Error ellipse: s-maj=43.2km s-min=22.3km az=129.0.
ISC V 31 10 22 49.3–.42 28.71N–.04 140.87E–.05 173–3 4.7b 436 2-152
NIED V 31 10 22 00 28.80N 141.30E 165 4.8W **¶16554411**
IDC V 31 10 22 47.7–.50 28.54N 140.71E 165–5 4.8,4.4
ISCJB V 31 10 22 48.2–.44 28.70N–.02 140.65E–.03 170–3 4.6b,4.4

MOS V 31 10 22 49.0–.91 28.65N 140.53E 184 4.7b,4.4
JMA V 31 10 22 49.0 28.81N 141.26E 161 4.6,4.4
NEIC V 31 10 22 50.5–.51 28.61N 140.67E 181–4 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ6.00000°,λ-88.00000°. NP2:ϕ_s120.00000°,δ84.00000°,λ-90.00000°. $M_0$1.63000×10^{16}
IDC Error ellipse: s-maj=10.1km s-min=7.0km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=4.0km az=26.4.
MOS Error ellipse: s-maj=9.1km s-min=4.6km az=94.6.
JMA Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=128.0.
ISC V 31 17 54 43.1–1.0 27.4N–.10 143.0E–.10 27 3.7b 12 1-78
IDC V 31 17 54 38.9–.94 27.33N 143.07E 0 3.9,3.7 **¶17204839**
ISCJB V 31 17 54 40.8–.82 27.4N–.10 143.2E–.10 27 3.8b,2.7s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 01 23 34 18.2–.28 27.07N–.03 140.40E–.04 467–2 4.5b 784 2-164
NIED VI 01 23 34 00 27.00N 140.40E 440 4.9W **¶16554282**
BJI VI 01 23 34 12.5 26.78N 140.69E 445 4.7b,4.5b
ISCJB VI 01 23 34 17.6–.27 27.04N–.02 140.29E–.02 468–2 4.6b,4.5b
MOS VI 01 23 34 17.0–.90 27.08N 140.29E 462 4.6b,4.5b
NEIC VI 01 23 34 18.0–.10 27.03N 140.29E 461 4.6b,4.5b
JMA VI 01 23 34 18.3–.10 27.01N 140.44E 463 5.1,4.5b
IDC VI 01 23 34 18.4–.44 27.06N 140.38E 468–4 5.0,4.3
GCMT VI 01 23 34 18.0–.60 27.12N 140.60E 477–4 5.2W,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ35.00000°,λ-58.00000°. NP2:ϕ_s17.00000°,δ61.00000°,λ-110.00000°. $M_0$2.62000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.8km az=33.0.
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=108.5.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.8km az=128.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=8.3km s-min=6.2km az=84.0.
GCMT Error ellipse: s-maj=6.7km s-min=6.7km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s42,c58;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.05 $M_{\theta\theta}$-0.01±.07; $M_{\phi\phi}$0.70±.09; $M_{r\theta}$0.44±.09; $M_{\theta\phi}$0.03±.07; $M_{\phi r}$0.10±.10; Best double couple: NP1:ϕ_s208.00000°,δ56.00000°,λ-59.00000°. NP2:ϕ_s341.00000°,δ45.00000°,λ-127.00000°. Principal axes: T 0.7210,Plg6.0000°,Azm276.0000°; N 0.2000,Plg25.0000°,Azm9.0000° ; P -0.9210,Plg64.0000°,Azm174.0000° $M_0$0.82100×10^{17}
ISC VI 02 01 58 32.9–1.1 26.9N–.10 143.8E–.10 35 3.6b 9 1-57
IDC VI 02 01 58 27.8–1.1 26.83N 143.88E 0 4.1,3.9b **¶17204934**
ISCJB VI 02 01 58 31.1–.94 26.8N–.10 143.8E–.10 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 05 08 39 03.1–.53 26.80N–.08 143.87E–.07 35 4.3b 72 2-149
IDC VI 05 08 38 58.3–.53 26.88N 143.94E 0 4.2,4.1 **¶16577394**
BJI VI 05 08 38 58.8 26.52N 143.67E 11 4.7b,4.4b
NEIC VI 05 08 38 59.5–.29 26.78N 143.87E 10 4.6b,4.4b
ISCJB VI 05 08 39 01.1–.37 26.78N–.06 143.88E–.05 33 4.3b,2.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 07 12 22 43.8–1.2 26.70N 143.56E 0 3.7,3.4
¶17205485
IDC Error ellipse: s-maj=26.2km s-min=21.6km az=55.0.
IDC VI 08 01 05 33.5–1.6 28.13N 142.30E 0 4.0b,4.0
¶17205522
IDC Error ellipse: s-maj=39.1km s-min=21.2km az=80.0.
ISC VI 08 06 18 21.3–.87 28.96N–.08 139.8E–.20 500 3.2b 23 3-75
ISCJB VI 08 06 18 20.2–.56 28.97N–.06 139.9E–.10 500 3.2b **¶17205537**
JMA VI 08 06 18 20.1–.20 28.95N 139.82E 499 3.7
IDC VI 08 06 18 20.4–.88 28.88N 139.25E 459–11 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=6.9km az=165.0.
JMA Error ellipse: s-maj=3.3km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=13.1km az=72.0.
ISC VI 08 20 21 01.1–1.6 26.4N–.20 143.3E–.20 35 3.6b 7 1-71
IDC VI 08 20 20 57.2–2.8 26.30N 143.06E 0 3.7,3.6 **¶17205571**
ISCJB VI 08 20 20 58.1–1.2 26.5N–.10 143.5E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC VI 11 15 43 59.8–1.2 26.72N 144.10E 0 3.7,3.5b
¶17205777
IDC Error ellipse: s-maj=32.5km s-min=21.6km az=27.0.
ISC VI 12 18 16 13.8–1.5 27.3N–.10 143.4E–.10 35 3.9b 8 1-59
IDC VI 12 18 16 09.3–1.5 27.17N 143.38E 0 3.7b,3.6 **¶17205895**
ISCJB VI 12 18 16 11.3–1.1 27.3N–.10 143.5E–.10 33 3.8b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC VI 14 16 26 05.0–1.4 26.5N–.20 143.8E–.20 31 3.6b 9 2-59
IDC VI 14 16 25 59.5–1.5 26.63N 144.01E 0 3.6,3.5 **¶17206121**
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=19.0km az=68.0.
IDC VI 15 00 28 02.1–2.3 26.66N 144.10E 0 3.9L,3.8
¶17206142
IDC Error ellipse: s-maj=59.3km s-min=26.4km az=70.0.
ISC VI 15 00 32 08.3–.57 26.92N–.08 144.13E–.06 35 4.2b 64 2-148
NIED VI 15 00 32 00 27.00N 143.90E 8 4.1W **¶16730513**
IDC VI 15 00 32 03.3–.73 26.82N 144.20E 0 4.1,3.9
NEIC VI 15 00 32 04.5–.28 26.82N 144.25E 10 4.7b,3.9
ISCJB VI 15 00 32 06.3–.36 26.83N–.05 144.13E–.04 33 4.4b,3.1s
JMA VI 15 00 32 07.1–.10 26.95N 143.88E 117 3.7,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ24.00000°,λ-94.00000°. NP2:ϕ_s127.00000°,δ66.00000°,λ-88.00000°. $M_0$1.71000×10^{15}
IDC Error ellipse: s-maj=18.6km s-min=17.6km az=62.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.6km az=47.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=4.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 15 04 19 49.0–1.1 26.7N–.20 144.0E–.10 35 3.9b 10 2-148
IDC VI 15 04 19 43.0–1.2 26.67N 144.26E 0 3.8,3.7 **¶17206156**
ISCJB VI 15 04 19 46.4–1.1 26.7N–.10 144.1E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 15 04 41 05.3–.39 26.84N–.03 144.13E–.03 20–1 5.4b,5.1s 1327 2-164
NIED VI 15 04 41 00 26.90N 143.90E 8 5.4W,5.1s **¶602897642**
ISCJB VI 15 04 41 01.3–.64 26.87N–.02 144.09E–.01 2–3 5.4b,5.0s
IDC VI 15 04 41 02.2–.38 26.79N 144.15E 0 5.1,5.1b
NEIC VI 15 04 41 03.6–.09 26.79N 144.11E 10 5.5b,5.3W
GCMT VI 15 04 41 03.6–.10 26.86N 144.07E 12 5.5W,5.3W
BJI VI 15 04 41 03.8 26.88N 143.86E 10 5.4b,5.3s
NEIC VI 15 04 41 04.0–.00 26.80N 144.10E 12 5.4b,5.3s
MOS VI 15 04 41 04.5–.95 26.78N 144.18E 26 5.7b,5.0s
JMA VI 15 04 41 06.0–.10 26.91N 143.94E 105 5.2,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ33.00000°,λ-77.00000°. NP2:ϕ_s146.00000°,δ57.00000°,λ-98.00000°. $M_0$1.41000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.2km az=169.2.
IDC Error ellipse: s-maj=12.5km s-min=9.4km az=84.0.
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=2.3km az=148.0. Moment Tensor Solution. s47 Moment tensor: Scale 10^{16}Nm; M_{rr}-8.49 $M_{\theta\theta}$1.61 $M_{\phi\phi}$6.87 $M_{r\theta}$-1.04 $M_{\theta\phi}$-3.61 $M_{\phi r}$3.98 Best double couple: NP1:ϕ_s328.00000°,δ33.00000°,λ-99.00000°. NP2:ϕ_s158.00000° ,δ58.00000°,λ-84.00000°. Principal axes: T 9.6000,Plg13.0000°,Azm244.0000° ; N -0.1400,Plg5.0000°,Azm335.0000°; P -9.4600,Plg76.0000°,Azm86.0000° $M_0$9.50000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c161; s139,c267; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.09±.02 $M_{\theta\theta}$0.80±.02; $M_{\phi\phi}$1.29±.02; $M_{r\theta}$0.04±.06; $M_{\theta\phi}$-0.93±.02; $M_{\phi r}$0.60±.06; Best double couple: NP1:ϕ_s152.00000°,δ52.00000° ,λ-78.00000°. NP2:ϕ_s313.00000°,δ40.00000°,λ-105.00000°. Principal axes: T 2.0590,Plg6.0000°,Azm234.0000°; N 0.1460,Plg10.0000°,Azm325.0000° ; P -2.2060,Plg79.0000°,Azm111.0000° $M_0$2.13200×10^{17}

NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}1.27 $M_{\theta\theta}$0.61 $M_{\phi\phi}$0.66 $M_{r\theta}$0.42 $M_{\theta\phi}$-0.47 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s298.00000° ,δ49.00000°,λ-115.00000°. NP2:ϕ_s154.00000°,δ47.00000°,λ-63.00000°. Principal axes: T 1.1100,Plg0.0000°,Azm46.0000°; N 0.3500,Plg18.0000°,Azm315.0000° ; P -1.4600,Plg71.0000°,Azm138.0000° $M_0$1.30000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.0km az=105.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 15 04 50 17.9–.72 26.97N–.10 144.05E–.08 35 4.0b 26 2-148
IDC VI 15 04 50 12.7–.84 26.91N 144.17E 0 4.1,4.0 **¶16684531**
NEIC VI 15 04 50 14.2–.55 26.95N 144.16E 10 4.1b,4.0
ISCJB VI 15 04 50 16.1–.65 26.89N–.09 144.09E–.06 33 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 15 05 36 13.2–.53 26.77N–.08 144.04E–.07 35 4.2b 69 2-148
IDC VI 15 05 36 07.8–.60 26.74N 144.13E 0 4.2,4.1 **¶16730531**
NEIC VI 15 05 36 09.4–.34 26.76N 144.12E 10 4.7b,4.1
ISCJB VI 15 05 36 11.3–.40 26.65N–.06 144.07E–.05 35 4.2b,3.1s
MOS VI 15 05 36 11.0–.94 26.64N 144.07E 33 4.6b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=14.6km az=72.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.4km az=57.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.6km az=20.6.
MOS Error ellipse: s-maj=15.5km s-min=6.8km az=115.7.
ISC VI 15 05 56 02.3–1.0 26.8N–.10 144.1E–.10 35 3.9b 14 2-148
IDC VI 15 05 55 57.8–1.0 26.75N 144.08E 0 3.9,3.8 **¶17206159**
ISCJB VI 15 05 56 00.2–.96 26.7N–.20 144.15E–.09 33 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 15 06 02 39.7–1.3 26.6N–.20 143.9E–.10 31 3.9b 9 2-79
IDC VI 15 06 02 34.2–1.5 26.67N 144.14E 0 4.0,3.8 **¶17206160**
ISC Event type ke.
IDC Error ellipse: s-maj=42.7km s-min=26.2km az=60.0.
ISC VI 15 06 47 57.2–1.1 26.5N–.10 143.7E–.20 38 3.6b 13 1-149
IDC VI 15 06 48 02.0–1.2 26.12N 142.04E 35–7 3.5,3.4 **¶17206165**
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=18.6km az=84.0.
ISC VI 15 06 56 41.2–1.1 26.7N–.20 144.0E–.10 31 4.1b 12 2-148
IDC VI 15 06 56 36.5–1.0 26.69N 144.00E 0 4.1,4.0b **¶17206166**
ISCJB VI 15 06 56 39.0–1.0 26.8N–.10 144.07E–.10 31 4.0b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 15 07 18 38.5–1.1 26.7N–.20 144.0E–.10 31 4.1b 11 2-148
IDC VI 15 07 18 33.8–1.1 26.69N 144.08E 0 4.1,4.0b **¶17206169**
ISCJB VI 15 07 18 36.3–1.0 26.7N–.10 144.1E–.10 31 3.9b,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 15 07 36 00.9–1.9 26.67N 143.87E 0 3.7,3.6
¶17206170
IDC Error ellipse: s-maj=49.8km s-min=22.0km az=54.0.
ISC VI 15 07 41 08.4–.87 26.7N–.10 143.89E–.08 31 4.2b 26 2-149
NIED VI 15 07 41 00 27.00N 144.20E 5 4.0W **¶16730545**
IDC VI 15 07 41 03.4–.83 26.68N 144.05E 0 4.0,3.9
NEIC VI 15 07 41 04.9–.43 26.69N 144.06E 10 4.4b,3.9
ISCJB VI 15 07 41 06.0–.66 26.71N–.09 144.09E–.07 31 4.0b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ48.00000°,λ-47.00000°. NP2:ϕ_s304.00000°,δ57.00000°,λ-127.00000°. $M_0$1.24000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC VI 15 11 50 42.5–1.3 26.7N–.10 144.0E–.10 31 3.8b 8 2-148
IDC VI 15 11 50 38.4–1.4 26.59N 143.97E 0 3.8,3.8b **¶17206180**
ISCJB VI 15 11 50 39.7–1.2 26.7N–.10 144.2E–.10 31 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 15 16 49 26.4–1.4 26.48N 140.95E 0 3.6,3.6
¶17206196
IDC Error ellipse: s-maj=31.0km s-min=18.1km az=117.0.
ISC VI 15 17 45 49.2–.79 28.7N–.20 139.1E–.20 350 3.4b 13 3-83
ISCJB VI 15 17 45 48.0–.58 28.7N–.10 138.9E–.10 350 3.3b **¶17206198**
IDC VI 15 17 45 50.1–1.1 28.79N 139.50E 372–22 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=9.8km az=137.4.
IDC Error ellipse: s-maj=52.5km s-min=14.0km az=77.0.
ISC VI 15 18 53 45.9–.43 28.22N–.04 139.89E–.05 438–4 4.7b 570 2-152
NIED VI 15 18 53 00 28.20N 140.00E 440 4.9W **¶16603760**
BJI VI 15 18 53 42.5 27.93N 139.89E 436 4.8b,4.6b
MOS VI 15 18 53 43.1–.77 28.13N 139.76E 421 4.8b,4.6b
ISCJB VI 15 18 53 44.9–.25 28.19N–.02 139.78E–.03 433–2 4.6b,4.6b
JMA VI 15 18 53 45.1–.20 28.20N 140.05E 436–4 5.1,4.6b
NEIC VI 15 18 53 45.5–.33 28.14N 139.73E 433–3 4.6b,4.6b
IDC VI 15 18 53 46.1–.69 28.15N 139.77E 438–6 5.0,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ49.00000°,λ-146.00000°. NP2:ϕ_s324.00000°,δ65.00000°,λ-46.00000°. $M_0$2.50000×10^{16}
MOS Error ellipse: s-maj=8.5km s-min=4.2km az=114.1.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.3km az=139.1.
JMA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=145.0.
IDC Error ellipse: s-maj=9.6km s-min=6.7km az=83.0.
ISC VI 16 03 14 14.1–1.3 26.7N–.20 143.8E–.20 31 4.0b 8 2-59
IDC VI 16 03 14 09.0–1.6 26.70N 143.92E 0 3.9,3.8 **¶17206246**
ISCJB VI 16 03 14 11.0–1.2 26.7N–.10 144.1E–.10 31 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 05 40 36.6–1.2 26.7N–.20 144.0E–.10 31 3.8b 9 2-148
IDC VI 16 05 40 31.8–1.4 26.72N 144.06E 0 3.9,3.7 **¶17206274**
ISCJB VI 16 05 40 34.4–1.1 26.7N–.10 144.0E–.10 31 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 12 01 53.9–1.5 26.6N–.20 143.8E–.20 31 3.9b 7 2-52
IDC VI 16 12 01 49.1–2.1 26.62N 143.92E 0 4.0,3.9b **¶17206316**
ISCJB VI 16 12 01 51.1–1.3 26.6N–.20 144.1E–.20 31 4.0b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 17 13 49 47.8–.47 27.01N–.05 144.06E–.06 35 4.6b,3.4s 199 2-94
NIED VI 17 13 49 00 27.20N 144.00E 8 4.3W,3.4s **¶16628228**
BJI VI 17 13 49 37.3 26.62N 144.44E 4 4.8b,4.4b
IDC VI 17 13 49 41.9–.60 26.89N 144.04E 0 4.4,4.3
NEIC VI 17 13 49 43.9–.20 26.94N 143.92E 10 4.7b,4.3
JMA VI 17 13 49 44.9 27.16N 143.99E 72 4.2,4.3
MOS VI 17 13 49 45.8–1.3 26.97N 143.91E 33 4.8b,4.3
ISCJB VI 17 13 49 47.2–.26 27.20N–.04 143.90E–.03 33 4.5b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ29.00000°,λ-40.00000°. NP2:ϕ_s136.00000°,δ72.00000°,λ-113.00000°. $M_0$2.81000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC VI 17 19 57 15.3–1.5 26.6N–.20 143.9E–.20 38 3.7b 7 2-59
IDC VI 17 19 57 10.0–1.8 26.64N 143.87E 0 3.6,3.5 **¶17206409**
ISCJB VI 17 19 57 12.9–1.3 26.7N–.20 144.0E–.10 38 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC VI 19 13 16 29.1–1.4 26.25N 140.11E 0 3.8,3.8L
¶17206528
IDC Error ellipse: s-maj=50.5km s-min=24.3km az=127.0.
ISC VI 19 19 34 47.3–1.6 26.4N–.10 142.7E–.30 31 3.6b 7 1-79
IDC VI 19 19 34 42.8–2.0 26.40N 142.73E 0 3.8,3.6b **¶17206542**
ISCJB VI 19 19 34 44.7–1.3 26.4N–.10 143.0E–.20 31 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.

IDC VI 19 21 03 09.6–1.8 27.70N 143.25E 0 3.8,3.7 ¶17206548

IDC Error ellipse: s-maj=42.0km s-min=23.1km az=121.0.
ISC VI 20 04 35 01.7–1.1 26.9N–.10 144.1E–.10 35 4.0b 13 2-87
IDC VI 20 04 34 56.0–1.1 26.81N 144.18E 0 4.0,3.9b **¶17206575**
ISCJB VI 20 04 34 59.1–.97 26.8N–.20 144.2E–.10 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 20 04 35 17.6–1.0 27.0N–.10 144.1E–.10 35 4.2b 13 2-79
IDC VI 20 04 35 12.0–.98 26.90N 144.24E 0 4.1,4.0b **¶17206578**
ISCJB VI 20 04 35 15.2–.80 26.9N–.10 144.14E–.09 33 3.9b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 20 06 14 59.3–.00 26.9N–.10 144.05E–.09 35 3.9b 19 2-71
IDC VI 20 06 14 53.6–.98 26.87N 144.19E 0 3.9,3.8L **¶16731016**
NEIC VI 20 06 14 55.4–.52 26.90N 144.13E 10 4.1b,3.8L
ISCJB VI 20 06 14 56.8–.66 26.86N–.09 144.11E–.06 33 3.8b,3.8L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 20 07 34 24.6–2.1 26.66N 143.92E 0 4.0L,3.8 ¶17206581

IDC Error ellipse: s-maj=46.8km s-min=25.0km az=56.0.
ISC VI 20 17 25 12.9–1.2 26.9N–.10 143.4E–.10 35 3.5b 16 1-79
IDC VI 20 17 25 07.9–1.2 26.90N 143.38E 0 4.3,4.3s **¶16731052**
ISCJB VI 20 17 25 10.5–.77 26.91N–.09 143.48E–.08 33 3.6b,4.3s
NEIC VI 20 17 25 11.6–4.5 26.89N 143.38E 25–31 4.5b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=18.3km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=9.2km az=24.7.
NEIC Event type se. Error ellipse: s-maj=23.2km s-min=10.0km az=86.0.
ISC VI 20 17 33 04.2–.58 27.03N–.08 143.74E–.08 35 4.1b 44 1-149
IDC VI 20 17 32 58.4–.58 26.90N 143.87E 0 4.2,4.1 **¶16731053**
ISCJB VI 20 17 33 01.8–.47 26.93N–.06 143.81E–.05 33 4.1b,4.1
NEIC VI 20 17 33 03.9–.42 26.97N 143.78E 35 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.6km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.8km az=178.5.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.6km az=79.0.
ISC VI 21 14 08 29.8–.81 26.6N–.10 144.2E–.10 31 4.3b 30 2-148
IDC VI 21 14 08 25.0–.93 26.65N 144.35E 0 4.0,3.9 **¶16731141**
NEIC VI 21 14 08 26.5–.63 26.60N 144.28E 10 4.5b,3.9
ISCJB VI 21 14 08 27.7–.60 26.59N–.07 144.27E–.07 31 4.2b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 21 18 19 52.4–.82 26.68N–.07 144.22E–.06 15–4 4.6b,3.3s 200 2-148
ISCJB VI 21 18 19 49.7–.27 26.63N–.04 144.21E–.04 10 4.5b,3.3s **¶16643039**
IDC VI 21 18 19 49.7–.59 26.59N 144.24E 0 4.4,4.3
NEIC VI 21 18 19 51.4–.24 26.65N 144.22E 10 4.6b,4.3
BJI VI 21 18 19 52.5 26.67N 143.74E 10 4.8b,4.6b
MOS VI 21 18 19 53.4–1.2 26.63N 144.19E 35 4.9b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=178.3.
IDC Error ellipse: s-maj=17.2km s-min=14.0km az=90.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=5.0km az=147.0.
MOS Error ellipse: s-maj=11.2km s-min=5.5km az=118.1.
IDC VI 21 18 58 21.6–2.2 26.47N 143.92E 0 3.7,3.5 ¶17206694

IDC Error ellipse: s-maj=58.9km s-min=25.2km az=55.0.
ISC VI 21 19 58 12.1–1.1 26.6N–.10 143.9E–.10 31 4.1b 22 2-84
IDC VI 21 19 58 06.8–1.7 26.54N 144.01E 0 3.8,3.8b **¶16731163**
NEIC VI 21 19 58 08.3–.95 26.56N 144.01E 10 4.3b,3.8b
ISCJB VI 21 19 58 09.3–.72 26.5N–.10 144.0E–.10 31 4.0b,3.8b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 21 20 22 15.0–2.0 26.50N 143.99E 0 3.7,3.6 ¶17206697

IDC Error ellipse: s-maj=51.9km s-min=28.3km az=52.0.
IDC VI 22 01 30 29.4–.91 28.96N 140.54E 0 4.1,3.9 ¶17206716

IDC Error ellipse: s-maj=57.6km s-min=21.2km az=98.0.
ISC VI 22 05 53 43.2–1.2 26.7N–.20 144.1E–.10 31 4.1b 10 2-148
IDC VI 22 05 53 38.6–1.3 26.61N 144.15E 0 4.1,4.0b **¶17206728**
ISCJB VI 22 05 53 41.1–1.2 26.7N–.10 144.2E–.10 31 4.0b,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 22 08 06 31.9–2.0 26.49N 143.93E 0 3.8,3.7 ¶17206738

IDC Error ellipse: s-maj=56.1km s-min=26.0km az=57.0.
ISC VI 22 10 10 55.5–1.1 26.7N–.10 144.1E–.10 31 3.9b 13 2-72
IDC VI 22 10 10 50.8–1.1 26.61N 144.21E 0 3.9,3.8 **¶17206744**
ISCJB VI 22 10 10 53.4–.84 26.6N–.10 144.2E–.10 31 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 10 15 19.6–.70 26.5N–.10 144.1E–.10 31 4.3b 27 2-148
IDC VI 22 10 15 14.8–.79 26.51N 144.18E 0 4.2,4.1 **¶16731223**
NEIC VI 22 10 15 16.2–.42 26.48N 144.16E 10 4.5b,4.1
ISCJB VI 22 10 15 17.5–.59 26.43N–.09 144.13E–.08 31 4.2b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 22 10 30 24.6–2.1 26.46N 144.03E 0 3.7,3.5 ¶17206746

IDC Error ellipse: s-maj=57.8km s-min=21.3km az=58.0.
ISC VI 22 10 35 57.1–1.8 26.5N–.20 143.9E–.20 35 3.7b 6 2-52
IDC VI 22 10 35 59.1–1.3 25.89N 141.92E 0 3.8,3.6 **¶17206747**
ISC Event type ke.
IDC Error ellipse: s-maj=47.8km s-min=16.2km az=93.0.
IDC VI 22 11 09 40.5–2.6 26.61N 144.16E 0 3.7,3.6 ¶17206749

IDC Error ellipse: s-maj=73.6km s-min=23.6km az=64.0.
ISC VI 22 11 56 31.7–1.0 26.9N–.10 144.2E–.10 35 3.6b 13 2-71
IDC VI 22 11 56 26.2–.97 26.78N 144.37E 0 3.9,3.8b **¶17206753**
ISCJB VI 22 11 56 29.3–.79 26.8N–.10 144.28E–.09 33 3.7b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 15 29 52.3–1.4 26.6N–.20 144.1E–.20 35 3.6b 8 2-55
IDC VI 22 15 29 46.5–2.2 26.53N 144.37E 0 3.7,3.6 **¶17206761**
ISCJB VI 22 15 29 50.3–1.2 26.5N–.20 144.1E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC VI 23 16 33 32.4–1.1 28.20N–.06 142.9E–.20 22 4.1b 28 1-77
NIED VI 23 16 33 00 28.10N 143.00E 5 3.9W **¶16731312**
IDC VI 23 16 33 29.1–1.0 28.20N 142.96E 0 4.0,3.9L
ISCJB VI 23 16 33 30.3–.71 28.28N–.04 142.9E–.10 22 4.1b,2.6s
NEIC VI 23 16 33 30.6–.53 28.24N 142.97E 10 4.4b,2.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ19.00000°,λ62.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ99.00000°. $M_0$8.73000×10^{14}
IDC Error ellipse: s-maj=35.6km s-min=14.1km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=5.4km az=4.2.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=5.5km az=81.0.
ISC VI 23 19 25 53.3–.60 27.31N–.05 142.69E–.07 34–1 4.3b,3.6s 122 0-150
MOS VI 23 19 25 50.6–.94 27.15N 142.78E 36 4.8b,3.6s **¶16720980**
BJI VI 23 19 25 51.0 27.40N 142.50E 20 4.8b,4.7b
ISCJB VI 23 19 25 52.2–1.0 27.51N–.05 142.69E–.07 33–6 4.4b,3.5s
NEIC VI 23 19 25 52.7–1.2 27.19N 142.71E 36–10 4.8b,3.5s
IDC VI 23 19 25 53.2–1.3 27.22N 142.70E 40–10 4.2,4.1
ISC Event type se.
MOS Error ellipse: s-maj=15.8km s-min=6.8km az=117.7.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=9.0km az=13.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.6km az=97.0.
IDC Error ellipse: s-maj=18.0km s-min=11.8km az=90.0.
IDC VI 25 13 20 07.7–1.5 27.00N 143.87E 0 3.8,3.5 ¶17206921

IDC Error ellipse: s-maj=49.3km s-min=29.4km az=89.0.
IDC VI 25 19 11 37.2–4.3 26.52N 140.90E 0 3.7,3.6L ¶17206936

IDC Error ellipse: s-maj=311.9km s-min=33.8km az=85.0.
IDC VI 26 04 39 56.5–2.8 26.89N 143.13E 0 3.6,3.5 ¶17206960

IDC Error ellipse: s-maj=126.6km s-min=21.3km az=78.0.
IDC VI 26 04 47 45.8–6.2 26.46N 143.11E 0 3.6,3.4L ¶17206961

IDC Error ellipse: s-maj=310.2km s-min=36.1km az=80.0.
ISC VI 27 02 55 21.6–.71 27.6N–.10 139.9E–.20 479 3.4b 19 2-152
ISCJB VI 27 02 55 20.4–.60 27.6N–.10 139.8E–.20 479 3.3b **¶16721012**
IDC VI 27 02 55 21.2–.73 27.63N 139.82E 472–9 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=12.0km az=151.3.
IDC Error ellipse: s-maj=27.2km s-min=13.6km az=68.0.
ISC VI 28 12 20 02.3–.91 27.0N–.10 143.7E–.10 35 4.2b 17 1-66
IDC VI 28 12 19 56.8–1.1 26.89N 143.90E 0 4.1,3.9 **¶16731700**
ISCJB VI 28 12 19 59.9–.66 26.93N–.08 143.79E–.09 33 4.2b,3.9
NEIC VI 28 12 20 02.3–.73 26.96N 143.72E 35 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=16.9km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=10.3km az=39.4.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=10.9km az=75.0.
IDC VI 28 13 31 22.4–10 26.64N 143.08E 0 4.3,4.0 ¶17207143

IDC Error ellipse: s-maj=371.8km s-min=31.5km az=71.0.
IDC VI 28 18 06 08.9–2.2 28.11N 142.87E 0 3.5,3.5L ¶17207151

IDC Error ellipse: s-maj=56.6km s-min=22.6km az=92.0.
ISC VI 29 12 16 25.3–1.3 27.09N–.09 143.8E–.10 35 3.8b 11 1-83
IDC VI 29 12 16 20.3–1.3 26.88N 143.72E 0 3.8,3.7 **¶17207195**
ISCJB VI 29 12 16 21.8–1.0 27.04N–.09 143.9E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC VI 29 12 49 57.9–6.9 26.50N 142.78E 38–59 3.9L,3.8 ¶17207196

IDC Error ellipse: s-maj=65.4km s-min=23.4km az=77.0.
IDC VI 29 12 54 09.8–1.2 26.71N 142.88E 0 3.6,3.5L ¶17207197

IDC Error ellipse: s-maj=47.7km s-min=23.2km az=91.0.
IDC VI 29 19 27 44.0–5.6 26.76N 143.06E 0 3.8,3.7 ¶17207215

IDC Error ellipse: s-maj=215.1km s-min=28.5km az=76.0.
ISC VI 29 20 28 57.9–.68 27.02N–.07 143.70E–.08 35 4.1b 41 1-149
NIED VI 29 20 28 00 27.10N 143.70E 5 4.0W **¶16731807**
IDC VI 29 20 28 52.4–.69 26.91N 143.80E 0 4.2,4.1
ISCJB VI 29 20 28 55.4–.50 26.96N–.06 143.75E–.06 33 4.2b,4.1
NEIC VI 29 20 28 57.6–.45 26.94N 143.72E 35 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ45.00000°,λ-46.00000°. NP2:ϕ_s303.00000°,δ60.00000°,λ-125.00000°. $M_0$9.60000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=13.3km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=7.5km az=30.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.6km az=79.0.
IDC VI 29 21 55 10.4–8.5 26.90N 143.98E 0 3.9L,3.8 ¶17207219

IDC Error ellipse: s-maj=310.8km s-min=30.0km az=74.0.

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ISC I 01 20 51 44.8–.89 22.10N–.08 143.5E–.20 150 3.5b 29 5-146
ISCJB I 01 20 51 43.3–.79 22.06N–.06 143.4E–.30 150 3.6b **¶17189159**
IDC I 01 20 51 46.7–2.1 22.20N 143.49E 170–18 3.9,3.5
JMA I 01 20 51 52.1–.10 22.63N 143.60E 205 4.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.9km s-min=6.7km az=173.0.
IDC Error ellipse: s-maj=35.8km s-min=12.8km az=81.0.
JMA Error ellipse: s-maj=2.2km s-min=8.2km az=-1.0.
ISC I 04 15 36 30.7–2.3 25.5N–.20 141.9E–.70 35 3.8b 9 11-79
IDC I 04 15 36 25.3–2.7 25.48N 142.00E 0 3.8,3.7 **¶17189437**
ISCJB I 04 15 36 28.0–2.0 25.5N–.10 142.0E–.60 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 04 17 18 10.9–.77 22.4N–.10 143.0E–.20 250 3.4b 15 15-83
ISCJB I 04 17 18 09.4–.62 22.37N–.09 143.0E–.20 250 3.4b **¶602426833**
IDC I 04 17 18 12.9–4.5 22.40N 142.96E 270–45 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=12.6km az=178.8.
IDC Error ellipse: s-maj=19.7km s-min=10.6km az=90.0.
ISC I 05 15 40 35.6–.82 25.2N–.10 144.1E–.10 35 3.8b 14 3-95
IDC I 05 15 40 30.4–.82 25.18N 144.08E 0 3.9,3.8 **¶17189518**
ISCJB I 05 15 40 33.3–.69 25.16N–.08 144.1E–.10 33 3.7b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC I 05 17 25 44.1–1.0 25.1N–.10 143.7E–.20 35 3.7b 14 2-73
IDC I 05 17 25 39.0–1.1 25.11N 143.82E 0 3.8L,3.7 **¶16031113**
NEIC I 05 17 25 40.5–.71 25.10N 143.75E 10 4.2b,3.7
ISCJB I 05 17 25 41.7–.75 25.10N–.09 143.9E–.20 33 3.5b,3.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 06 05 14 18.1–.80 25.1N–.10 144.0E–.20 35 3.7b 21 3-127
IDC I 06 05 14 12.9–.75 25.19N 144.07E 0 4.0,3.8 **¶16007672**
NEIC I 06 05 14 14.2–.43 25.12N 144.07E 10 4.2b,3.8
ISCJB I 06 05 14 15.8–.60 25.10N–.09 144.0E–.10 33 3.8b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 08 06 23 15.2–.95 22.18N 143.51E 0 3.6,3.4 ¶17189673

IDC Error ellipse: s-maj=45.0km s-min=24.2km az=83.0.
JMA I 08 08 52 23.2–.20 22.32N 143.55E 286 4.3 ¶600516697

JMA Error ellipse: s-maj=3.3km s-min=8.2km az=-1.0.
ISC I 08 09 30 16.2–.85 24.39N–.08 141.4E–.20 150 3.8b 30 2-126
ISCJB I 08 09 30 14.6–.63 24.41N–.05 141.2E–.10 150 3.5b **¶17189687**
IDC I 08 09 30 15.5–2.0 24.26N 141.50E 148–18 3.9,3.5
JMA I 08 09 30 18.2–.20 24.63N 140.81E 112 4.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=6.1km az=9.4.
IDC Error ellipse: s-maj=26.4km s-min=12.6km az=89.0.
JMA Error ellipse: s-maj=3.3km s-min=4.0km az=-1.0.
ISC I 08 10 18 15.2–1.0 24.37N–.09 141.3E–.20 148 3.6b 20 2-80
ISCJB I 08 10 18 13.9–.75 24.35N–.05 141.4E–.10 148 3.4b **¶17189692**
IDC I 08 10 18 13.5–2.3 24.16N 141.67E 130–21 3.8,3.5
JMA I 08 10 18 15.4–.30 24.42N 140.92E 103 4.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=7.2km az=9.9.
IDC Error ellipse: s-maj=33.4km s-min=17.1km az=89.0.
JMA Error ellipse: s-maj=4.4km s-min=8.1km az=-1.0.
ISC I 10 04 11 55.0–1.1 25.2N–.10 141.6E–.20 181 3.1b 18 2-79
IDC I 10 04 11 50.3–1.7 24.82N 141.41E 139–15 3.6,3.4 **¶17189816**
ISCJB I 10 04 11 52.3–.97 25.12N–.08 141.6E–.20 181 3.3b,3.4
JMA I 10 04 11 52.6–.20 25.15N 140.76E 109 4.6,3.4
ISC Event type ke.

IDC Error ellipse: s-maj=37.4km s-min=17.0km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=24.1km s-min=10.0km az=14.5.
JMA Error ellipse: s-maj=3.3km s-min=4.0km az=-1.0.
ISC I 10 10 24 20.7–.23 23.16N–.03 143.15E–.03 87–1 5.7b 1414 4-167
NIED I 10 10 24 00 23.70N 143.80E 74 5.8W **¶15915784**
ISCJB I 10 10 24 17.9–.37 23.16N–.02 143.17E–.02 72–3 5.6b
MOS I 10 10 24 18.9–.89 23.09N 143.06E 83 5.6b,4.7s
NEIC I 10 10 24 21.0–.60 23.08N 143.17E 87–5 5.7b,5.6W
IDC I 10 10 24 20.7–.36 23.10N 143.15E 88–3 5.4,5.1
GCMT I 10 10 24 21.0–.10 23.25N 143.12E 92–0 5.6W,5.1
BJI I 10 10 24 21.4 23.53N 142.90E 74 5.5b,5.3b
JMA I 10 10 24 23.6–.10 23.72N 143.82E 147–1 6.0,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ9.00000°,λ-142.00000°. NP2:ϕ_s355.00000°,δ85.00000°,λ-83.00000°. $M_0$5.84000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.2km az=147.3.
MOS Error ellipse: s-maj=7.6km s-min=4.1km az=100.5.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.8km az=111.0. Recorded [1 JMA] in the Chichijima-retto and Hahajima-retto. Moment Tensor Solution. s39 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$-1.03 $M_{\phi\phi}$0.06 $M_{r\theta}$-2.06 $M_{\theta\phi}$-1.39 $M_{\phi r}$0.83 Best double couple: NP1: ϕ_s23.00000°,δ36.00000°,λ21.00000°. NP2:ϕ_s276.00000°,δ78.00000°,λ124.00000°. Principal axes: T 3.0000,Plg46.0000°,Azm221.0000°; N -0.4300,Plg33.0000°,Azm88.0000° ; P -2.5700,Plg25.0000°,Azm340.0000° $M_0$2.80000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=6.1km az=96.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c226; s127,c295;Duration: 1$\mathcal{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.96±.03 $M_{\theta\theta}$-1.28±.04; $M_{\phi\phi}$0.32±.04; $M_{r\theta}$-2.00±.02; $M_{\theta\phi}$-2.13±.03; $M_{\phi r}$0.78±.03; Best double couple: NP1: ϕ_s275.00000°,δ77.00000°,λ136.00000°. NP2:ϕ_s17.00000°,δ47.00000°,λ18.00000°. Principal axes: T 3.3040,Plg40.0000°,Azm226.0000°; N -0.1360,Plg44.0000°,Azm82.0000° ; P -3.1670,Plg19.0000°,Azm332.0000° $M_0$3.23500×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISC I 12 13 07 39.6–.85 25.7N–.10 143.0E–.20 40 3.7b 14 2-150
IDC I 12 13 07 33.8–.84 25.57N 143.14E 0 4.0,3.8 **¶15998114**
ISCJB I 12 13 07 37.4–.74 25.61N–.08 143.0E–.20 40 3.9b,3.8
NEIC I 12 13 07 38.9–.71 25.61N 143.00E 35 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=18.3km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=27.5km s-min=7.4km az=161.1.
NEIC Event type se. Error ellipse: s-maj=33.0km s-min=14.1km az=86.0.
IDC I 15 03 31 46.3–1.6 26.00N 141.94E 0 3.7,3.6
¶17190225
IDC Error ellipse: s-maj=51.2km s-min=19.5km az=101.0.
ISC I 17 00 44 35.3–.90 25.1N–.20 141.1E–.20 181 3.7b 14 45-149
ISCJB I 17 00 44 33.7–.86 25.1N–.20 141.1E–.20 181 3.6b **¶17190358**
IDC I 17 00 44 35.7–10 25.07N 141.16E 184–98 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=22.1km az=172.9.
IDC Error ellipse: s-maj=22.2km s-min=17.1km az=71.0.
IDC I 17 12 07 43.8–1.4 25.34N 142.52E 0 3.6,3.3
¶17190404
IDC Error ellipse: s-maj=57.2km s-min=32.0km az=96.0.
ISC I 18 06 54 57.6–.81 22.4N–.10 143.2E–.20 100 3.9b 10 43-83
ISCJB I 18 06 54 55.9–.71 22.3N–.10 143.2E–.20 100 3.7b **¶17190462**
IDC I 18 06 54 58.0–17 22.35N 143.24E 103–157 3.8s,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.9km s-min=16.2km az=0.6.
IDC Error ellipse: s-maj=29.8km s-min=19.4km az=75.0.
IDC I 20 10 10 35.4–1.1 25.95N 141.86E 0 3.7,3.5
¶17190614
IDC Error ellipse: s-maj=41.6km s-min=19.1km az=95.0.
IDC I 21 07 23 58.1–1.4 25.96N 143.64E 0 3.9,3.6
¶17190665
IDC Error ellipse: s-maj=39.6km s-min=29.7km az=84.0.
ISC I 22 04 26 24.5–1.0 24.7N–.10 141.2E–.30 189 3.3b 8 2-125
ISCJB I 22 04 26 23.0–1.0 24.7N–.10 141.2E–.30 189 3.4b **¶17190716**
IDC I 22 04 26 23.5–1.6 24.71N 141.24E 179–13 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.9km s-min=13.8km az=20.5.
IDC Error ellipse: s-maj=32.5km s-min=18.0km az=107.0.
ISC I 25 02 18 37.3–.37 22.18N–.04 144.24E–.05 61–2 5.0b 460 5-152
MOS I 25 02 18 32.5–.91 22.10N 144.23E 34 5.4b **¶15963191**
BJI I 25 02 18 35.1 22.00N 144.32E 63 5.0b,5.0b
ISCJB I 25 02 18 35.5–.62 22.16N–.02 144.23E–.03 54–5 5.0b,3.8s
JMA I 25 02 18 35.6–.20 22.80N 144.94E 0 5.3,3.8s
IDC I 25 02 18 36.8–.40 22.11N 144.26E 58–3 4.7,4.5
NEIC I 25 02 18 37.6–.87 22.09N 144.25E 63–7 5.1b,4.5
ISC Event type se.
MOS Error ellipse: s-maj=9.8km s-min=5.0km az=114.7.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=4.0km az=2.3.
JMA Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.
IDC Error ellipse: s-maj=12.8km s-min=7.9km az=84.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.7km az=93.0.
IDC I 25 02 26 25.0–1.3 22.16N 144.27E 0 3.8,3.6
¶17190936
IDC Error ellipse: s-maj=52.9km s-min=28.8km az=98.0.
ISC I 25 02 53 25.9–.81 22.70N–.10 143.8E–.20 53 4.0b 24 5-83
ISCJB I 25 02 53 24.0–.63 22.66N–.07 143.8E–.20 53 4.0b,2.5s **¶16022422**
IDC I 25 02 53 25.5–3.4 22.68N 143.80E 52–29 4.1L,3.9
NEIC I 25 02 53 26.4–1.6 22.65N 143.83E 60–13 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.4km s-min=9.1km az=166.1.
IDC Error ellipse: s-maj=25.7km s-min=16.6km az=92.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=11.2km az=87.0.
IDC I 25 16 56 02.5–8.2 22.07N 144.39E 126–74 3.7,3.5
¶17190975
IDC Error ellipse: s-maj=118.0km s-min=18.0km az=79.0.
IDC I 27 14 31 59.0–1.2 25.88N 143.56E 0 3.5,3.3
¶17191115
IDC Error ellipse: s-maj=51.1km s-min=25.0km az=92.0.
ISC I 30 03 31 04.4–.66 22.71N–.09 144.6E–.10 33 4.1b,3.6s 30 5-149
IDC I 30 03 30 59.2–.73 22.65N 144.78E 0 4.1,3.9 **¶16136167**
ISCJB I 30 03 31 02.7–.46 22.73N–.06 144.6E–.10 33 4.0b,3.6s
NEIC I 30 03 31 04.5–.36 22.71N 144.65E 35 4.3b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=18.2km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=7.2km az=158.9.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.8km az=68.0.
IDC I 30 09 36 10.4–9.2 24.81N 140.44E 0 3.6,3.4
¶17191305
IDC Error ellipse: s-maj=387.0km s-min=32.1km az=72.0.
ISC I 31 22 52 27.0–1.4 22.4N–.20 142.7E–.30 35 3.5b 7 20-62
IDC I 31 22 52 21.6–1.5 22.39N 142.76E 0 3.6,3.5 **¶17191442**
ISCJB I 31 22 52 24.6–1.3 22.4N–.20 142.7E–.30 33 3.4b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 00 08 34.8–.46 22.73N–.07 144.68E–.10 33 4.4b,3.8s 71 5-148
IDC II 01 00 08 29.2–.59 22.60N 144.70E 0 4.4L,4.2 **¶16337737**
ISCJB II 01 00 08 33.0–.31 22.73N–.04 144.63E–.07 33 4.5b,3.8s
NEIC II 01 00 08 35.1–1.7 22.70N 144.69E 38–15 4.8b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.4km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.5km az=158.2.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.1km az=88.0.
ISC II 01 03 21 11.5–.96 22.7N–.20 144.5E–.20 33 3.9b 10 24-82
IDC II 01 03 21 06.5–.82 22.69N 144.52E 0 4.1,3.8 **¶17191453**
ISCJB II 01 03 21 09.7–.76 22.7N–.10 144.5E–.20 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 03 27 14.5–.43 22.68N–.05 144.47E–.05 33 4.6b,4.5s 215 4-150
NIED II 01 03 27 00 23.00N 144.70E 14 4.7W,4.5s **¶16022429**
IDC II 01 03 27 08.6–.55 22.63N 144.67E 0 4.5,4.4
MOS II 01 03 27 11.7–1.1 22.63N 144.42E 28 4.9b,4.4
NEIC II 01 03 27 12.9–2.6 22.67N 144.49E 21–18 4.7b,4.4
BJI II 01 03 27 13.7 22.54N 144.70E 57 5.1b,4.8s
ISCJB II 01 03 27 13.3–.25 22.74N–.03 144.44E–.04 33 4.5b,4.5s
JMA II 01 03 27 16.3–.20 22.97N 144.67E 100 4.6,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ64.00000°,λ27.00000°. NP2:ϕ_s58.00000°,δ66.00000°,λ151.00000°. $M_0$1.39000×10^{16}
IDC Error ellipse: s-maj=17.5km s-min=13.3km az=81.0.
MOS Error ellipse: s-maj=11.6km s-min=6.0km az=105.8.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.4km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=38.9.
JMA Error ellipse: s-maj=4.4km s-min=7.2km az=-1.0.
ISC II 01 03 32 10.5–.42 22.71N–.05 144.46E–.06 33 4.8b,4.5s 260 4-150
NIED II 01 03 32 00 23.20N 144.90E 11 4.9W,4.5s **¶16022430**
IDC II 01 03 32 04.8–.53 22.63N 144.56E 0 4.6L,4.4
MOS II 01 03 32 06.7–.92 22.63N 144.35E 21 5.0b,4.6s
JMA II 01 03 32 07.7–.20 23.17N 144.89E 0 4.9,4.6s
BJI II 01 03 32 09.2 22.68N 144.49E 35 5.2b,4.9s
ISCJB II 01 03 32 09.2–.20 22.72N–.03 144.42E–.03 33 4.6b,4.5s
NEIC II 01 03 32 10.8–.18 22.67N 144.47E 35 4.9b,4.5s
GCMT II 01 03 32 10.8–.40 22.52N 144.79E 24–1 5.0W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ53.00000°,λ-4.00000°. NP2:ϕ_s246.00000°,δ87.00000°,λ-143.00000°. $M_0$2.25000×10^{16}
IDC Error ellipse: s-maj=20.6km s-min=13.0km az=85.0.
MOS Error ellipse: s-maj=11.3km s-min=5.7km az=102.5.
JMA Error ellipse: s-maj=3.3km s-min=5.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.7km az=30.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.5km az=189.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c42; s80,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.67±.22 $M_{\theta\theta}$-0.72±.13; $M_{\phi\phi}$-2.95±.14; $M_{r\theta}$1.34±.20; $M_{\theta\phi}$0.38±.07; $M_{\phi r}$2.34±.19; Best double couple: NP1:ϕ_s12.00000°,δ64.00000° ,λ105.00000°. NP2:ϕ_s161.00000°,δ30.00000°,λ62.00000°. Principal axes: T 4.7670,Plg68.0000°,Azm310.0000°; N -1.0680,Plg13.0000°,Azm185.0000° ; P -3.6940,Plg18.0000°,Azm91.0000° $M_0$4.23100×10^{16}
ISC II 01 11 14 59.9–.64 22.66N–.08 144.6E–.20 33 4.2b 27 5-145
IDC II 01 11 14 54.9–.64 22.66N 144.64E 0 4.2,4.2L **¶16337743**
ISCJB II 01 11 14 58.4–.49 22.63N–.06 144.4E–.10 33 4.1b,4.2L
NEIC II 01 11 15 00.3–.32 22.67N 144.52E 35 4.4b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=14.7km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=7.0km az=164.9.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=6.3km az=80.0.
ISC II 01 11 17 54.9–1.1 22.7N–.10 144.6E–.20 33 3.6b 13 15-83
IDC II 01 11 17 49.9–.96 22.67N 144.66E 0 3.8,3.7 **¶17191477**
ISCJB II 01 11 17 53.0–.86 22.7N–.10 144.6E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 03 10 14 24.0–.82 22.6N–.10 144.6E–.20 35 3.9b 17 5-145
IDC II 03 10 14 18.6–.80 22.50N 144.77E 0 4.1,4.0 **¶17191591**
ISCJB II 03 10 14 22.0–.69 22.56N–.08 144.7E–.20 33 3.9s,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 04 16 37.7–.29 22.65N–.03 143.60E–.04 99–2 5.3b 1014 4-153
NIED II 04 04 16 00 23.10N 144.10E 95 5.2W **¶16002990**
BJI II 04 04 16 35.7 22.65N 143.58E 92 5.2b,5.1b
ISCJB II 04 04 16 36.1–.49 22.63N–.02 143.53E–.02 94–4 5.3b,5.1b
NEIC II 04 04 16 37.1–.10 22.58N 143.60E 92 5.4b,5.1b
GCMT II 04 04 16 37.1–.10 22.71N 143.66E 100–1 5.3W,5.1b
IDC II 04 04 16 38.4–1.3 22.59N 143.54E 105–10 5.2,5.0
JMA II 04 04 16 39.5–.20 23.08N 144.15E 116 5.6,5.0
MOS II 04 04 16 39.7–.97 22.61N 143.43E 127 5.3b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ28.00000°,λ24.00000°. NP2:ϕ_s228.00000°,δ79.00000°,λ116.00000°. $M_0$7.48000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.9km az=173.2.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.8km az=127.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c127; s112,c187; Duration: 1$\mathcal{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.45±.20 $M_{\theta\theta}$1.72±.24; $M_{\phi\phi}$-1.27±.24; $M_{r\theta}$-8.91±.12; $M_{\theta\phi}$-2.87±.22; $M_{\phi r}$2.28±.14; Best double couple: NP1:ϕ_s101.00000°,δ85.00000° ,λ-103.00000°. NP2:ϕ_s351.00000°,δ13.00000°,λ-20.00000°. Principal axes: T 10.7280,Plg39.0000°,Azm202.0000°; N -2.3810,Plg13.0000°,Azm102.0000° ; P -8.3460,Plg48.0000°,Azm357.0000° $M_0$9.53700×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=8.1km az=85.0.
JMA Error ellipse: s-maj=3.3km s-min=6.1km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=3.9km az=101.7.
ISC II 04 19 21 12.4–.64 25.13N–.07 142.5E–.10 32 4.3b 51 2-150
NIED II 04 19 21 00 25.20N 141.10E 8 4.5W **¶16168801**
ISCJB II 04 19 21 10.3–.50 25.10N–.04 142.62E–.10 32 4.2b,4.2s
NEIC II 04 19 21 13.9–1.7 25.14N 142.47E 45–14 4.4b,4.2s
IDC II 04 19 21 13.6–2.4 25.14N 142.37E 42–19 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ12.00000°,λ109.00000°. NP2:ϕ_s209.00000°,δ78.00000°,λ86.00000°. $M_0$7.01000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=6.2km az=179.4.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.7km az=95.0.
IDC Error ellipse: s-maj=21.0km s-min=13.8km az=87.0.
IDC II 04 21 26 05.2–8.7 22.77N 143.77E 116–89 3.6L,3.4
¶17191696
IDC Error ellipse: s-maj=138.6km s-min=26.3km az=102.0.
IDC II 08 11 31 03.0–8.1 22.63N 144.11E 213–76 3.4,3.0
¶17191893
IDC Error ellipse: s-maj=48.3km s-min=17.4km az=80.0.
ISC II 08 15 33 34.9–.50 22.74N–.08 144.55E–.08 33 4.8s,4.6b 116 5-149
IDC II 08 15 33 29.7–.61 22.72N 144.48E 0 4.3,4.2 **¶602734459**
MOS II 08 15 33 30.9–1.1 22.71N 144.32E 17 4.8b,4.2
BJI II 08 15 33 32.7 22.49N 144.56E 35 5.1b,4.9s
ISCJB II 08 15 33 33.5–.38 22.72N–.06 144.35E–.07 33 4.7s,4.4b
NEIC II 08 15 33 35.3–.29 22.71N 144.38E 35 4.7b,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=14.2km az=71.0.
MOS Error ellipse: s-maj=15.0km s-min=8.3km az=114.1.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.5km az=138.2.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.6km az=60.0.
ISC II 08 15 34 32.0–.43 22.73N–.06 144.57E–.06 33 5.0b,4.7s 253 5-149
BJI II 08 15 34 23.1 22.43N 144.95E 10 5.3b,5.0s **¶16016433**
IDC II 08 15 34 26.7–.56 22.70N 144.52E 0 4.8s,4.8
MOS II 08 15 34 28.7–1.1 22.69N 144.48E 26 5.2b,4.7s
NEIC II 08 15 34 30.6–3.0 22.74N 144.56E 22–20 5.1b,4.7s
GCMT II 08 15 34 30.6–.20 22.65N 144.75E 14 5.1W,4.7s
ISCJB II 08 15 34 30.5–.25 22.72N–.04 144.52E–.04 33 4.8b,4.7s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c68; s87,c127;Duration: 1$\mathcal{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.13 $M_{\theta\theta}$-0.17±.10; $M_{\phi\phi}$-3.72±.10; $M_{r\theta}$0.86±.28; $M_{\theta\phi}$1.35±.08; $M_{\phi r}$4.88±.23; Best double couple: NP1:ϕ_s3.00000°,δ71.00000°,λ105.00000°. NP2:ϕ_s143.00000° ,δ24.00000°,λ53.00000°. Principal axes: T 6.5470,Plg61.0000°,Azm295.0000° ; N -0.3300,Plg14.0000°,Azm178.0000°; P -6.2230,Plg25.0000°,Azm81.0000° $M_0$6.38500×10^{16}
ISCJB Event type se.
ISC II 08 15 45 54.0–.43 22.71N–.06 144.66E–.07 33 4.8b,4.2s 204 5-150
BJI II 08 15 45 45.2 22.31N 144.89E 10 5.2b,4.8s **¶16012713**
IDC II 08 15 45 48.6–.52 22.67N 144.59E 0 4.7,4.7
MOS II 08 15 45 49.8–.95 22.69N 144.42E 16 5.0b,4.7
ISCJB II 08 15 45 52.8–.24 22.74N–.04 144.47E–.04 33 4.7b,4.4s
NEIC II 08 15 45 52.2–2.1 22.69N 144.54E 20–14 4.9b,4.4s

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=12.9km az=79.0.
MOS Error ellipse: s-maj=10.8km s-min=5.5km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=142.5.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.9km az=130.0.

ISC	**II**	**09 09 51 27.1–.30**	**24.81N–.03**	**141.21E–.04**	**206–2**	**5.0b**	**847**	**2-152**
BJI	II	09 09 51 22.9	24.70N	141.45E	198	5.1b,5.0b		¶16397876
ISCJB	II	09 09 51 25.5–.36	24.87N–.02	141.16E–.02	195–2	4.9b,5.0b		
MOS	II	09 09 51 25.7–.99	24.85N	141.03E	202	4.9b,5.0b		
IDC	II	09 09 51 27.5–.44	24.81N	141.18E	212–3	5.0,4.5		
GCMT	II	09 09 51 28.1–.20	24.80N	141.17E	197–1	5.2W,4.5		
NEIC	II	09 09 51 28.1–.14	24.81N	141.10E	210	5.1b,4.5		
JMA	II	09 09 51 28.1–.20	25.10N	141.65E	230	5.2,4.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=157.2.
MOS Error ellipse: s-maj=7.9km s-min=4.6km az=97.8.
IDC Error ellipse: s-maj=8.0km s-min=6.0km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c121; s112,c186; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.71±.13 $M_{\theta\theta}$-6.46±.15; $M_{\phi\phi}$-0.24±.17; $M_{r\theta}$0.14±.14; $M_{\theta\phi}$2.19±.16; $M_{\phi r}$2.61±.14; Best double couple: NP1:ϕ_s306.00000°,δ51.00000°,λ115.00000°. NP2:ϕ_s89.00000°,δ45.00000°,λ62.00000°. Principal axes: T 7.6310,Plg70.0000°,Azm280.0000°; N -0.4380,Plg19.0000°,Azm110.0000°; P -7.1870,Plg3.0000°,Azm19.0000° M_o7.40900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=150.0. Recorded [1 JMA] in the Chichijima-retto.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.0km az=-1.0.

IDC	**II**	**10 20 41 50.0–7.5**	**22.12N**	**142.71E**	**265–76**	**3.9,3.5**		
								¶17192036

IDC Error ellipse: s-maj=25.7km s-min=19.4km az=99.0.

ISC	**II**	**16 07 26 50.2–1.2**	**23.5N–.20**	**144.1E–.30**	**28**	**3.7b**	**6**	**44-82**
IDC	II	16 07 26 46.0–1.2	23.51N	144.09E	0	3.8,3.6		¶17192350
ISCJB	II	16 07 26 48.2–1.1	23.5N–.20	144.1E–.30	28	3.6b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**II**	**17 10 24 36.2–.69**	**22.93N–.08**	**144.1E–.10**	**34**	**4.1b,3.3s**	**32**	**5-146**
IDC	II	17 10 24 30.9–.64	22.84N	144.18E	0	4.1,4.0		¶16398398
ISCJB	II	17 10 24 34.7–.56	22.96N–.06	144.1E–.10	34	4.0b,3.3s		
NEIC	II	17 10 24 34.8–.45	22.87N	144.18E	25	4.6b,3.3s		

ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=14.4km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=7.7km az=164.7.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.0km az=74.0.

IDC	**II**	**18 23 45 54.8–1.0**	**22.07N**	**143.22E**	**0**	**3.6,3.4**		
								¶17192512

IDC Error ellipse: s-maj=40.0km s-min=22.3km az=79.0.

ISC	**II**	**20 15 50 08.7–.73**	**22.88N–.09**	**144.2E–.20**	**34**	**3.8b**	**21**	**5-90**
IDC	II	20 15 50 03.5–.71	22.83N	144.24E	0	3.9,3.8		¶17192592
ISCJB	II	20 15 50 07.0–.61	22.87N–.07	144.1E–.20	34	3.7b,3.8		

ISC Event type ke.
ISCJB Event type ke.

ISC	**II**	**22 14 09 50.2–.32**	**22.19N–.03**	**143.85E–.03**	**112–2**	**5.5b**	**1308**	**5-167**
NIED	II	22 14 09 00	22.60N	144.20E	89	5.6W		¶16100871
BJI	II	22 14 09 47.2	22.21N	143.92E	95	5.5b,5.3b		
ISCJB	II	22 14 09 48.4–.35	22.21N–.02	143.86E–.01	101–3	5.5b,5.3b		
NEIC	II	22 14 09 50.8–.09	22.11N	143.84E	113	5.6b,5.5W		
GCMT	II	22 14 09 50.8–.10	22.23N	143.98E	106–1	5.5W,5.5W		
MOS	II	22 14 09 50.6–1.0	22.15N	143.72E	124	5.4b,4.5s		
IDC	II	22 14 09 50.9–.42	22.15N	143.82E	115–3	5.4,5.1		
JMA	II	22 14 09 51.9–.20	22.57N	144.24E	120–2	5.8,5.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ49.00000°,λ129.00000°. NP2:ϕ_s325.00000°,δ54.00000°,λ55.00000°. M_o2.71000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.2km az=149.7.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.5km az=126.0. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$-0.08 $M_{\phi\phi}$-0.88 $M_{r\theta}$-2.11 $M_{\theta\phi}$-0.69 $M_{\phi r}$0.65 Best double couple: NP1:ϕ_s23.00000°,δ20.00000°,λ23.00000°. NP2:ϕ_s272.00000°,δ82.00000°,λ109.00000°. Principal axes: T 2.8500,Plg49.0000°,Azm202.0000°; N -1.0900,Plg19.0000°,Azm89.0000°; P -1.7600,Plg35.0000°,Azm345.0000° M_o2.50000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c201; s127,c296;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.52±.03 $M_{\theta\theta}$0.40±.04; $M_{\phi\phi}$-0.92±.04; $M_{r\theta}$-2.26±.02; $M_{\theta\phi}$-0.52±.03; $M_{\phi r}$0.67±.02; Best double couple: NP1: ϕ_s104.00000°,δ90.00000°,λ-94.00000°. NP2:ϕ_s10.00000°,δ4.00000°,λ-4.00000°. Principal axes: T 2.9110,Plg45.0000°,Azm198.0000°; N -1.1030,Plg4.0000°,Azm104.0000°; P -1.8090,Plg45.0000°,Azm11.0000° M_o2.36000×10^{17}
MOS Error ellipse: s-maj=6.5km s-min=3.8km az=100.9.
IDC Error ellipse: s-maj=9.3km s-min=5.5km az=87.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.

IDC	**II**	**25 18 37 13.7–1.5**	**22.70N**	**143.86E**	**0**	**4.1L,3.6**		
								¶17192857

IDC Error ellipse: s-maj=62.0km s-min=20.2km az=77.0.

IDC	**II**	**26 04 25 46.2–4.4**	**22.11N**	**143.69E**	**0**	**3.5,3.5**		
								¶17192880

IDC Error ellipse: s-maj=177.3km s-min=24.8km az=79.0.

IDC	**II**	**26 06 46 50.4–3.1**	**25.67N**	**141.21E**	**85–31**	**3.8,3.7**		
								¶17192890

IDC Error ellipse: s-maj=70.1km s-min=19.4km az=100.0.

ISC	**II**	**27 08 14 02.4–1.0**	**22.0N–.10**	**142.9E–.20**	**300**	**3.2b**	**12**	**5-83**
ISCJB	II	27 08 14 00.8–.83	22.0N–.10	142.9E–.20	300	3.3b		¶17192941
IDC	II	27 08 14 02.6–4.7	22.04N	142.88E	302–48	3.8,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.3km s-min=14.4km az=175.0.
IDC Error ellipse: s-maj=26.7km s-min=12.8km az=86.0.

ISC	**II**	**28 12 30 39.6–1.0**	**24.3N–.10**	**142.0E–.20**	**35**	**3.6b**	**9**	**3-80**
ISCJB	II	28 12 30 37.6–.87	24.26N–.07	142.1E–.20	33	3.5b		¶17192994
IDC	II	28 12 30 43.2–2.6	24.44N	142.00E	68–23	3.6,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.6km s-min=10.0km az=8.1.
IDC Error ellipse: s-maj=30.2km s-min=16.8km az=103.0.

ISC	**III**	**05 06 48 18.5–1.2**	**25.7N–.10**	**142.7E–.30**	**36**	**3.4b**	**7**	**1-79**
IDC	III	05 06 48 13.3–1.2	25.77N	142.75E	0	3.8,3.6b		¶17193271
ISCJB	III	05 06 48 16.7–1.0	25.67N–.10	142.8E–.30	36	3.6b,3.6b		

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**14 23 19 38.8–7.2**	**24.69N**	**141.65E**	**119–42**	**3.8,3.5**		
								¶17195289

IDC Error ellipse: s-maj=69.8km s-min=29.0km az=171.0.

IDC	**III**	**18 08 27 43.9–13**	**22.24N**	**143.61E**	**170–134**	**3.6,3.3**		
								¶17196965

IDC Error ellipse: s-maj=57.9km s-min=21.5km az=97.0.

IDC	**III**	**19 07 26 50.3–1.3**	**25.86N**	**141.65E**	**0**	**3.7,3.6**		
								¶17197155

IDC Error ellipse: s-maj=43.8km s-min=18.6km az=103.0.

ISC	**III**	**22 03 57 05.7–.56**	**24.14N–.08**	**141.36E–.08**	**151**	**4.4b**	**95**	**3-149**
ISCJB	III	22 03 57 04.6–.36	24.28N–.06	141.51E–.06	151	4.3b		¶17197916
BJI	III	22 03 57 09.4	24.30N	141.00E	179	5.0b,4.6b		
NEIC	III	22 03 57 10.9–1.1	24.25N	141.36E	197–10	4.4b,4.6b		
IDC	III	22 03 57 10.0–1.1	24.30N	141.42E	191–9	4.3,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.5km az=146.7.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.1km az=131.0.
IDC Error ellipse: s-maj=13.4km s-min=9.5km az=88.0.

IDC	**III**	**26 05 15 08.8–1.5**	**24.25N**	**141.30E**	**206–20**	**3.7,3.2**		
								¶17198606

IDC Error ellipse: s-maj=45.7km s-min=17.9km az=89.0.

ISC	**III**	**29 18 00 00.0–.91**	**22.07N–.05**	**144.38E–.07**	**92–7**	**4.7b**	**211**	**5-150**
MOS	III	29 17 59 54.5–1.1	22.05N	144.21E	53	5.0b		¶16391155
IDC	III	29 17 59 57.9–2.8	22.08N	144.36E	71–25	4.4,4.2		
BJI	III	29 17 59 57.5	22.17N	144.00E	63	5.0b,4.8b		
NEIC	III	29 17 59 58.1–.92	22.09N	144.41E	75–8	4.8b,4.8b		
ISCJB	III	29 17 59 59.6–.24	22.08N–.03	144.28E–.05	100	4.6b,4.8b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**IV**	**05 10 59 42.0–.42**	**22.81N–.05**	**143.43E–.07**	**80–3**	**4.8b**	**298**	**4-151**
ISCJB	IV	05 10 59 41.1–.83	22.79N–.03	143.33E–.03	80–7	4.7b		¶16411022
IDC	IV	05 10 59 41.6–.45	22.78N	143.40E	78–3	4.6,4.4		
NEIC	IV	05 10 59 42.3–.16	22.75N	143.37E	80	4.8b,4.4		
BJI	IV	05 10 59 43.0	22.80N	143.40E	100	4.8b,4.8b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=38.0.
IDC Error ellipse: s-maj=12.0km s-min=7.7km az=83.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.2km az=103.0.

IDC	**IV**	**07 03 43 05.8–1.3**	**22.20N**	**144.47E**	**0**	**3.9,3.8**		
								¶17200076

IDC Error ellipse: s-maj=43.7km s-min=27.8km az=90.0.

IDC	**IV**	**08 15 52 46.0–3.0**	**25.37N**	**141.84E**	**0**	**4.1,3.9**		
								¶17200259

IDC Error ellipse: s-maj=172.7km s-min=27.0km az=78.0.

ISC	**IV**	**11 14 07 41.0–1.2**	**24.1N–.10**	**141.7E–.20**	**151**	**3.7b**	**11**	**3-75**
ISCJB	IV	11 14 07 39.2–.92	24.12N–.08	141.6E–.20	151	3.5b		¶16706472
IDC	IV	11 14 07 41.6–1.7	24.21N	141.73E	162–18	3.8,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=10.3km az=11.8.
IDC Error ellipse: s-maj=30.6km s-min=15.4km az=80.0.

ISC	**IV**	**16 20 30 29.0–.87**	**22.32N–.09**	**144.3E–.20**	**33**	**4.0b**	**27**	**5-83**
IDC	IV	16 20 30 23.4–1.0	22.26N	144.49E	0	4.1L,3.8		¶16587530
ISCJB	IV	16 20 30 26.9–.72	22.25N–.07	144.4E–.20	33	4.0b,3.8		
NEIC	IV	16 20 30 30.3–2.3	22.28N	144.44E	48–20	4.2b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=36.5km s-min=16.5km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=27.2km s-min=8.4km az=166.2.
NEIC Event type se. Error ellipse: s-maj=28.9km s-min=10.3km az=76.0.

ISC	**IV**	**19 09 38 33.0–1.0**	**25.4N–.10**	**142.6E–.20**	**38**	**3.6b**	**12**	**2-79**
NIED	IV	19 09 38 00	25.40N	143.20E	5	3.8W		¶17201487
IDC	IV	19 09 38 27.7–.99	25.51N	142.60E	0	3.9,3.7		
ISCJB	IV	19 09 38 31.0–.84	25.34N–.08	142.7E–.20	38	3.7b,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ13.00000°,λ54.00000°. NP2:ϕ_s31.00000°,δ79.00000°,λ98.00000°. M_o5.07000×10^{14}
ISCJB Event type ke.

ISC	**IV**	**20 18 57 32.4–.76**	**25.56N–.08**	**140.8E–.10**	**160**	**3.7b**	**35**	**2-152**
ISCJB	IV	20 18 57 31.2–.58	25.56N–.04	140.74E–.07	160	3.6b		¶17201637
IDC	IV	20 18 57 33.9–1.7	25.52N	140.85E	176–15	3.9,3.5		
JMA	IV	20 18 57 36.3–.20	25.70N	140.70E	124	4.6,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.2km az=5.5.
IDC Error ellipse: s-maj=20.8km s-min=12.7km az=93.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.

ISC	**IV**	**24 08 27 39.8–1.0**	**23.5N–.10**	**143.4E–.30**	**31**	**3.6b**	**8**	**4-82**
IDC	IV	24 08 27 34.9–.99	23.48N	143.51E	0	3.7,3.6		¶17201948
ISCJB	IV	24 08 27 37.8–.89	23.52N–.08	143.4E–.30	31	3.5b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**24 11 38 01.6–1.0**	**23.9N–.10**	**141.3E–.20**	**151**	**3.5b**	**9**	**3-83**
ISCJB	IV	24 11 37 59.9–.92	23.9N–.10	141.2E–.20	151	3.4b		¶17201961
IDC	IV	24 11 38 05.1–1.9	24.03N	141.39E	181–15	3.8,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.2km s-min=12.9km az=16.5.
IDC Error ellipse: s-maj=29.7km s-min=18.9km az=98.0.

IDC	**IV**	**29 04 55 53.9–1.3**	**25.86N**	**143.45E**	**0**	**3.8,3.6**		
								¶17202347

IDC Error ellipse: s-maj=47.2km s-min=27.5km az=86.0.

ISC	**V**	**01 10 37 11.2–.81**	**22.08N–.10**	**143.0E–.20**	**250**	**3.6b**	**19**	**5-150**
ISCJB	V	01 10 37 09.5–.67	22.04N–.07	143.0E–.20	250	3.6b		¶17202513
IDC	V	01 10 37 12.1–2.3	22.04N	143.04E	261–21	4.0,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=10.1km az=175.1.
IDC Error ellipse: s-maj=19.7km s-min=12.0km az=88.0.

ISC	**V**	**02 07 07 13.5–1.0**	**25.4N–.10**	**142.8E–.30**	**40**	**3.6b**	**9**	**2-80**
IDC	V	02 07 07 07.9–1.0	25.46N	142.86E	0	3.6,3.5		¶17202591
ISCJB	V	02 07 07 11.6–.85	25.41N–.09	143.0E–.20	40	3.4b,3.5		

ISC Event type ke.
ISCJB Event type ke.

IDC	**V**	**04 02 46 07.5–29**	**22.13N**	**143.45E**	**320–201**	**3.8,3.2**		
								¶17202724

IDC Error ellipse: s-maj=262.7km s-min=38.8km az=174.0.

IDC	**V**	**07 07 56 30.6–4.1**	**23.95N**	**140.64E**	**173–27**	**3.5,3.2**		
								¶17202977

IDC Error ellipse: s-maj=284.4km s-min=22.1km az=107.0.

ISC	**V**	**07 22 29 52.5–.73**	**23.71N–.08**	**142.4E–.20**	**50**	**4.0b**	**21**	**3-97**
ISCJB	V	07 22 29 51.0–.53	23.70N–.06	142.3E–.10	50	3.9b		¶603241689
IDC	V	07 22 29 51.8–2.5	23.70N	142.40E	42–22	3.9,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=8.5km az=176.2.
IDC Error ellipse: s-maj=23.1km s-min=13.2km az=95.0.

ISC	**V**	**09 13 03 50.8–.49**	**25.34N–.07**	**142.7E–.10**	**38**	**4.5b,3.5s**	**102**	**2-150**
NIED	V	09 13 03 00	25.50N	143.40E	5	4.6W,3.5s		¶16503262
IDC	V	09 13 03 45.0–.58	25.37N	142.84E	0	4.3,4.2		
ISCJB	V	09 13 03 48.8–.30	25.33N–.04	142.76E–.07	38	4.4b,3.5s		
MOS	V	09 13 03 49.6–1.1	25.39N	142.78E	43	4.8b,3.5s		
NEIC	V	09 13 03 52.7–.49	25.41N	142.72E	55–4	4.7b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ5.00000°,λ-100.00000°. NP2:ϕ_s312.00000°,δ85.00000°,λ-89.00000°. M_o8.35000×10^{15}
IDC Error ellipse: s-maj=22.1km s-min=13.8km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.5km az=166.3.
MOS Error ellipse: s-maj=14.1km s-min=6.2km az=107.8.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.7km az=89.0.

IDC	**V**	**11 02 54 09.1–1.4**	**23.35N**	**142.75E**	**0**	**3.9,3.8**		
								¶17203343

IDC Error ellipse: s-maj=49.3km s-min=29.5km az=84.0.

IDC	**V**	**11 15 40 49.4–52**	**22.12N**	**142.96E**	**466–324**	**3.7,3.0**		
								¶17203405

IDC Error ellipse: s-maj=783.4km s-min=52.8km az=178.0.

ISC	**V**	**17 22 54 35.5–1.0**	**25.55N–.05**	**142.71E–.06**	**47–8**	**4.7b,3.7s**	**245**	**2-150**
IDC	V	17 22 54 28.3–.53	25.46N	142.72E	0	4.6,4.4		¶16560094
ISCJB	V	17 22 54 32.7–.95	25.51N–.04	142.68E–.05	39–7	4.6b,3.8s		
MOS	V	17 22 54 32.4–.92	25.53N	142.70E	37	4.8b,3.8s		
NEIC	V	17 22 54 35.2–1.1	25.54N	142.65E	46–9	4.8b,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=13.0km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=6.5km az=11.7.
MOS Error ellipse: s-maj=12.8km s-min=5.6km az=116.3.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.7km az=114.0.

ISC	**V**	**17 23 16 43.7–.71**	**25.46N–.05**	**142.59E–.06**	**45–5**	**4.8b,3.8s**	**287**	**2-151**
IDC	V	17 23 16 36.3–.54	25.42N	142.78E	0	4.7,4.6		¶16525124
MOS	V	17 23 16 40.1–.99	25.47N	142.68E	33	5.0b,4.6		
ISCJB	V	17 23 16 42.8–.86	25.47N–.04	142.64E–.04	54–7	4.7b,3.8s		
NEIC	V	17 23 16 45.3–.74	25.48N	142.58E	61–6	4.9b,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=12.8km az=80.0.
MOS Error ellipse: s-maj=11.7km s-min=5.5km az=117.1.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=6.3km az=142.5.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.1km az=86.0.

ISC	**V**	**18 03 02 21.6–.85**	**25.4N–.10**	**142.8E–.20**	**38**	**4.1b**	**18**	**2-150**
IDC	V	18 03 02 16.1–.76	25.46N	142.74E	0	4.0,3.9		¶16580994
ISCJB	V	18 03 02 20.1–.71	25.41N–.08	142.6E–.20	38	4.0b,3.9		
NEIC	V	18 03 02 21.5–.50	25.43N	142.72E	35	4.2b,3.9		

ISC Event type se.

IDC Error ellipse: s-maj=31.5km s-min=17.6km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=29.2km s-min=11.4km az=176.6.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=9.4km az=86.0.
ISC V 18 06 31 56.9–.45 25.39N–.05 142.72E–.06 40 4.7b,3.4s 190 2-151
JMA V 18 06 31 49.6–.10 25.81N 143.81E 0 4.7b,3.4s ¶603241703
ISCJB V 18 06 31 55.1–.27 25.43N–.03 142.68E–.05 40 4.6b,3.5s
MOS V 18 06 31 55.0–.93 25.35N 142.69E 43 4.9b,3.5s
IDC V 18 06 31 55.7–4.2 25.42N 142.72E 33–30 4.4,4.4
NEIC V 18 06 31 59.4–1.2 25.41N 142.63E 62–9 4.7b,4.4
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.9km az=171.5.
MOS Error ellipse: s-maj=12.6km s-min=6.0km az=111.6.
IDC Error ellipse: s-maj=17.2km s-min=12.8km az=88.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.2km az=126.0.
ISC V 18 12 42 35.8–.90 25.4N–.10 142.9E–.20 40 3.8b 17 2-85
IDC V 18 12 42 29.9–.80 25.40N 142.96E 0 3.9,3.7 ¶17203880
ISCJB V 18 12 42 33.7–.65 25.37N–.07 143.0E–.20 40 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 18 13 29 35.7–.95 25.41N–.10 141.9E–.20 35 4.1b 16 2-85
IDC V 18 13 29 31.0–1.3 25.47N 141.88E 0 3.9,3.8 ¶16587336
ISCJB V 18 13 29 34.1–.69 25.38N–.07 141.7E–.20 33 4.0b,3.8
NEIC V 18 13 29 34.7–6.3 25.49N 141.99E 25–45 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=49.7km s-min=16.8km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=23.3km s-min=7.5km az=14.7.
NEIC Event type se. Error ellipse: s-maj=29.9km s-min=14.5km az=88.0.
ISC V 20 03 58 46.8–.76 25.3N–.10 143.0E–.20 40 4.1b 23 2-150
IDC V 20 03 58 41.3–.70 25.38N 143.11E 0 4.1,3.9 ¶16560106
ISCJB V 20 03 58 44.8–.62 25.29N–.08 143.1E–.20 40 4.0b,3.9
NEIC V 20 03 58 47.3–2.3 25.44N 142.85E 44–19 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=15.6km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=22.9km s-min=8.4km az=158.8.
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=14.8km az=88.0.
ISC V 20 05 16 45.3–.47 25.53N–.04 142.71E–.05 49–3 5.0b,4.3s 491 2-151
IDC V 20 05 16 37.7–.51 25.49N 142.74E 0 4.7,4.6 ¶16530100
ISCJB V 20 05 16 41.3–.98 25.52N–.02 142.63E–.03 28–6 4.9b,4.4s
MOS V 20 05 16 42.8–1.3 25.54N 142.58E 42 5.2b,4.3s
BJI V 20 05 16 45.8 25.50N 142.60E 53 5.1b,4.8b
NEIC V 20 05 16 45.7–.68 25.52N 142.64E 52–6 5.0b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=12.6km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.7km az=158.6.
MOS Error ellipse: s-maj=8.1km s-min=4.3km az=105.2.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.6km az=130.0.
ISC V 20 12 23 28.2–.73 25.42N–.09 143.0E–.20 40 4.0b 20 2-150
IDC V 20 12 23 22.3–.68 25.44N 143.00E 0 4.0,3.8b ¶16710393
ISCJB V 20 12 23 26.3–.56 25.37N–.06 143.0E–.20 40 4.1s,3.9b
NEIC V 20 12 23 27.7–.39 25.47N 142.90E 35 4.0b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=31.1km s-min=15.2km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=22.7km s-min=6.9km az=165.2.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=7.9km az=86.0.
ISC V 20 14 12 31.4–.70 25.41N–.08 142.5E–.20 38 4.0b,3.4s 34 2-150
IDC V 20 14 12 25.6–.70 25.40N 142.61E 0 4.2,4.0 ¶16560108
ISCJB V 20 14 12 29.9–.53 25.42N–.05 142.4E–.10 38 4.0b,3.5s
NEIC V 20 14 12 31.1–.36 25.47N 142.54E 35 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=15.3km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=7.3km az=171.2.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=7.8km az=78.0.
ISC V 20 15 35 26.4–.95 25.4N–.10 143.0E–.20 40 3.9b 12 2-85
IDC V 20 15 35 20.6–.91 25.42N 142.97E 0 4.1,3.9 ¶17204052
ISCJB V 20 15 35 24.3–.75 25.38N–.09 143.0E–.20 40 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 17 45 57.6–.58 25.37N–.07 142.61E–.10 38 4.2b 61 2-87
IDC V 20 17 45 52.2–.70 25.40N 142.75E 0 4.1,4.0 ¶16710418
ISCJB V 20 17 45 55.9–.40 25.35N–.05 142.60E–.09 38 4.2b,3.5s
NEIC V 20 17 45 56.6–3.2 25.46N 142.67E 28–22 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=13.5km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=6.3km az=169.5.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.1km az=92.0.
ISC V 20 19 22 17.8–.92 25.4N–.10 143.2E–.30 35 4.1b 20 2-86
IDC V 20 19 22 12.7–1.2 25.43N 143.41E 0 4.0,3.9b ¶16710433
ISCJB V 20 19 22 15.7–.74 25.36N–.09 143.2E–.20 33 4.6s,4.2b
NEIC V 20 19 22 17.8–.91 25.40N 143.31E 35 4.3b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=43.0km s-min=24.9km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=32.7km s-min=7.2km az=159.9.
NEIC Event type se. Error ellipse: s-maj=42.3km s-min=12.7km az=76.0.
IDC V 21 04 55 23.6–1.2 25.43N 141.58E 0 3.7s,3.7
¶17204110
IDC Error ellipse: s-maj=50.3km s-min=18.0km az=96.0.
ISC V 21 12 57 23.3–.51 25.39N–.07 142.5E–.10 38 4.2b 51 2-150
IDC V 21 12 57 17.8–.48 25.43N 142.60E 0 4.3,4.2 ¶16560114
ISCJB V 21 12 57 21.8–.40 25.43N–.05 142.50E–.10 38 4.2b,4.2
NEIC V 21 12 57 23.1–1.2 25.44N 142.55E 35–10 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=11.9km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=7.5km az=166.9.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.9km az=85.0.
IDC V 22 02 08 55.3–1.8 25.38N 141.98E 0 3.7,3.6
¶17204177
IDC Error ellipse: s-maj=58.6km s-min=21.1km az=93.0.
ISC V 23 23 53 19.6–1.0 25.4N–.10 142.8E–.20 38 3.8b 16 2-84
ISCJB V 23 23 53 17.4–.85 25.28N–.09 142.8E–.20 38 3.8b ¶17204337
IDC V 23 23 53 21.6–3.2 25.40N 142.75E 55–23 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.4km s-min=11.6km az=169.0.
IDC Error ellipse: s-maj=29.8km s-min=20.7km az=81.0.
IDC V 24 00 38 15.7–1.3 25.52N 142.26E 0 3.8,3.6
¶17204340
IDC Error ellipse: s-maj=53.5km s-min=22.0km az=83.0.
ISC V 25 02 42 55.9–.97 25.4N–.10 142.7E–.20 38 3.6b 9 2-150
IDC V 25 02 42 50.4–.98 25.40N 142.73E 0 4.0,3.7 ¶17204423
ISCJB V 25 02 42 53.9–.94 25.29N–.10 142.8E–.20 38 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC V 25 02 58 56.4–1.4 25.48N 142.69E 0 4.0,3.8
¶17204424
IDC Error ellipse: s-maj=52.4km s-min=29.0km az=84.0.
ISC V 25 19 59 39.3–.92 25.36N–.10 142.9E–.20 40 3.9b 17 2-80
IDC V 25 19 59 33.9–.90 25.41N 142.82E 0 4.0,3.8b ¶16710924
ISCJB V 25 19 59 37.2–.66 25.31N–.06 142.9E–.20 40 3.9b,2.8s
NEIC V 25 19 59 39.4–1.8 25.40N 142.81E 38–16 4.4b,2.8s
ISC Event type se.
IDC Error ellipse: s-maj=30.8km s-min=16.2km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=23.2km s-min=7.6km az=166.9.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=10.2km az=91.0.
IDC V 26 08 26 46.3–1.2 25.49N 141.52E 0 3.9,3.7
¶17204490
IDC Error ellipse: s-maj=77.5km s-min=18.9km az=102.0.
ISC V 26 08 44 00.5–.51 25.39N–.07 142.5E–.10 38 4.4b,3.6s 72 2-151
ISCJB V 26 08 43 59.0–.33 25.41N–.05 142.52E–.07 38 4.5b,3.6s ¶16546014
NEIC V 26 08 44 00.1–2.3 25.47N 142.53E 32–15 4.7b,3.6s
IDC V 26 08 44 01.3–2.3 25.46N 142.58E 44–20 4.2,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.6km az=165.7.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.9km az=80.0.
IDC Error ellipse: s-maj=20.4km s-min=13.9km az=90.0.
ISC V 26 09 51 05.4–1.0 25.4N–.10 142.8E–.30 40 4.0b 9 2-80
IDC V 26 09 50 59.7–.92 25.47N 142.75E 0 3.9,3.7b ¶17204496
ISCJB V 26 09 51 03.3–.85 25.38N–.09 142.8E–.20 40 3.8b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 00 39 05.3–1.3 25.4N–.10 142.8E–.40 40 3.7b 7 2-80
IDC V 27 00 38 59.6–1.2 25.46N 142.78E 0 3.8,3.6 ¶17204536
ISCJB V 27 00 39 03.4–1.2 25.4N–.10 142.7E–.40 40 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 07 28 58.3–.64 25.42N–.09 142.8E–.20 40 4.1b 35 2-150
IDC V 27 07 28 52.5–.59 25.47N 142.75E 0 4.2,4.1 ¶16632920
ISCJB V 27 07 28 56.4–.44 25.40N–.06 142.8E–.10 40 4.1b,3.8s
NEIC V 27 07 28 58.2–1.5 25.48N 142.76E 38–13 4.3b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=13.8km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=7.6km az=164.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.4km az=88.0.
IDC V 27 10 09 03.3–1.2 25.40N 143.00E 0 3.9,3.7b
¶17204558
IDC Error ellipse: s-maj=59.7km s-min=19.0km az=84.0.
ISC V 28 00 57 20.0–.38 25.49N–.05 142.63E–.06 38 4.6b,3.7s 135 2-150
IDC V 28 00 57 13.3–.51 25.48N 142.87E 0 4.4,4.3 ¶16631875
ISCJB V 28 00 57 17.9–.24 25.51N–.03 142.59E–.04 38 4.6b,3.7s
NEIC V 28 00 57 19.3–.19 25.51N 142.60E 35 4.8b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=12.4km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.7km az=25.6.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.9km az=115.0.
ISC V 28 23 51 10.8–.36 25.48N–.05 142.55E–.06 39–3 4.6b,3.2s 215 2-150
IDC V 28 23 51 04.7–.50 25.50N 142.60E 0 4.5,4.4 ¶16560169
ISCJB V 28 23 51 08.5–.21 25.49N–.03 142.47E–.04 33 4.7b,3.5s
MOS V 28 23 51 08.6–.93 25.49N 142.51E 35 4.8b,3.5s
NEIC V 28 23 51 10.3–1.4 25.50N 142.50E 34–10 4.8b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=12.2km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.3km az=3.9.
MOS Error ellipse: s-maj=10.2km s-min=5.4km az=107.7.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.4km az=111.0.
ISC V 30 21 25 00.5–1.1 25.4N–.10 142.0E–.20 35 3.5b 9 2-82
IDC V 30 21 24 55.4–.99 25.42N 142.03E 0 3.7,3.5 ¶17204788
ISCJB V 30 21 24 58.7–.87 25.36N–.08 141.9E–.20 33 3.5b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC V 31 07 17 38.2–.80 25.41N–.10 142.7E–.20 38 4.1b 25 2-150
IDC V 31 07 17 32.9–.75 25.49N 142.75E 0 4.1,3.9 ¶16560236
ISCJB V 31 07 17 36.0–.54 25.38N–.06 142.9E–.10 38 4.0b,3.9
NEIC V 31 07 17 39.3–1.4 25.51N 142.68E 45–12 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.4km s-min=15.8km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=7.6km az=166.2.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.7km az=93.0.
IDC VI 01 10 48 53.4–1.2 25.62N 141.50E 0 3.8,3.6
¶17204882
IDC Error ellipse: s-maj=75.6km s-min=19.0km az=105.0.
IDC VI 02 11 19 36.7–2.5 25.57N 143.66E 0 3.6,3.5
¶17204990
IDC Error ellipse: s-maj=92.0km s-min=21.8km az=70.0.
ISC VI 02 13 41 40.3–.63 25.39N–.08 142.7E–.10 38 4.5b 51 2-150
IDC VI 02 13 41 35.0–.61 25.42N 142.73E 0 4.3,4.2 ¶16722593
BJI VI 02 13 41 37.0 25.04N 143.00E 52 4.8b,4.6s
ISCJB VI 02 13 41 38.5–.48 25.41N–.06 142.76E–.10 38 4.3b,4.6s
NEIC VI 02 13 41 41.1–1.4 25.48N 142.67E 42–11 4.7b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=13.5km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.6km az=171.3.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=9.0km az=104.0.
IDC VI 02 14 31 43.2–2.9 23.40N 142.35E 106–30 3.6,3.4
¶17205004
IDC Error ellipse: s-maj=46.0km s-min=20.7km az=90.0.
ISC VI 05 14 48 13.9–1.2 25.7N–.10 142.8E–.30 40 3.6b 7 12-79
IDC VI 05 14 48 08.1–1.1 25.67N 142.87E 0 3.8,3.7b ¶17205334
ISCJB VI 05 14 48 11.8–.99 25.7N–.10 142.8E–.30 40 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 06 03 58 25.2–.73 22.18N–.09 144.3E–.10 69 4.1b 30 5-149
IDC VI 06 03 58 16.4–.74 22.14N 144.40E 0 4.2,4.1 ¶16679564
NEIC VI 06 03 58 21.5–.54 22.13N 144.41E 35 4.3b,4.1
ISCJB VI 06 03 58 23.6–.60 22.09N–.07 144.4E–.10 69 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 13 18 04 00.5–.77 25.35N–.08 142.6E–.20 38 4.1b 21 2-150
ISCJB VI 13 18 03 58.6–.67 25.38N–.08 142.6E–.20 38 4.0b ¶16720918
IDC VI 13 18 04 03.0–2.1 25.39N 142.57E 60–17 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=10.5km az=171.9.
IDC Error ellipse: s-maj=24.6km s-min=13.5km az=90.0.
IDC VI 17 03 03 16.2–2.9 25.34N 142.73E 0 4.0,3.9
¶17206364
IDC Error ellipse: s-maj=135.8km s-min=31.1km az=79.0.
ISC VI 19 16 53 13.1–.49 22.10N–.04 143.49E–.06 199–4 4.6b 552 5-161
ISCJB VI 19 16 53 12.0–.63 22.10N–.03 143.37E–.03 198–5 4.5b ¶16638785
MOS VI 19 16 53 12.8–1.1 22.12N 143.33E 207 4.8b
IDC VI 19 16 53 13.0–.66 22.10N 143.46E 198–5 4.8,4.4
NEIC VI 19 16 53 13.3–.13 22.07N 143.39E 200 4.6b,4.4
JMA VI 19 16 53 14.6–.30 22.38N 143.54E 185 4.6b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.0km az=164.8.
MOS Error ellipse: s-maj=8.3km s-min=4.7km az=107.2.
IDC Error ellipse: s-maj=11.3km s-min=7.0km az=81.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=3.4km az=165.0.
JMA Error ellipse: s-maj=3.3km s-min=7.2km az=-1.0.
IDC VI 20 15 40 15.1–5.4 24.17N 144.21E 145–27 3.6,3.2
¶17206606
IDC Error ellipse: s-maj=142.1km s-min=22.1km az=73.0.
IDC VI 20 19 32 14.2–2.8 25.46N 143.04E 0 3.9,3.7
¶17206621
IDC Error ellipse: s-maj=130.2km s-min=22.1km az=76.0.
IDC VI 22 11 02 40.5–4.0 25.93N 141.69E 0 3.9,3.8b
¶17206748
IDC Error ellipse: s-maj=151.6km s-min=27.0km az=76.0.
ISC VI 25 06 21 25.2–.58 25.40N–.08 142.7E–.10 38 4.5b,3.4s 45 2-150
NIED VI 25 06 21 00 25.40N 143.00E 8 4.2W,3.4s ¶16720989
IDC VI 25 06 21 19.6–.61 25.44N 142.75E 0 4.3,4.2
ISCJB VI 25 06 21 23.3–.42 25.41N–.06 142.8E–.10 38 4.4b,3.4s
NEIC VI 25 06 21 26.4–1.1 25.49N 142.70E 47–9 4.7b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ38.00000°,λ33.00000°. NP2:ϕ_s34.00000°,δ71.00000°,λ123.00000°. $M_0$1.97000×10^{15}
IDC Error ellipse: s-maj=23.4km s-min=13.4km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=7.7km az=168.5.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.9km az=87.0.
IDC VI 25 18 09 04.2–4.0 25.31N 142.22E 63–35 3.9L,3.5
¶17206932
IDC Error ellipse: s-maj=108.1km s-min=19.6km az=81.0.
ISC VI 27 23 38 49.5–1.3 22.2N–.20 144.0E–.30 105 3.7b 9 29-83
ISCJB VI 27 23 38 47.7–1.2 22.2N–.20 144.0E–.20 105 3.7b ¶17207104

IDC VI 27 23 38 57.3–10 22.22N 143.91E 178–100 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.7km s-min=21.2km az=5.8.
IDC Error ellipse: s-maj=29.5km s-min=18.8km az=92.0.
ISC VI 28 22 49 59.6–.54 25.55N–.07 142.8E–.10 40 4.5b,3.3s 51 2-150
NIED VI 28 22 49 00 25.70N 141.10E 8 4.4W,3.3s **¶16721027**
IDC VI 28 22 49 54.0–.69 25.58N 142.85E 0 4.3,4.3
ISCJB VI 28 22 49 57.8–.40 25.60N–.05 142.83E–.08 40 4.5b,3.2s
NEIC VI 28 22 49 59.2–3.0 25.64N 142.79E 34–20 4.7b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ19.00000°,λ103.00000°. NP2:ϕ_s223.00000°,δ72.00000°,λ85.00000°. $M_0$3.93000×10^{15}
IDC Error ellipse: s-maj=26.0km s-min=13.7km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=7.6km az=164.7.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.8km az=96.0.

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IDC I 02 00 05 54.8–7.7 21.19N 143.10E 234–72 3.5,3.1
¶17189171
IDC Error ellipse: s-maj=48.8km s-min=23.4km az=77.0.
ISC I 05 23 23 58.9–.51 14.67N–.06 147.25E–.07 27 4.7b 85 2-146
IDC I 05 23 23 55.7–.80 14.82N 147.15E 0 4.4L,4.2 **¶15927178**
BJI I 05 23 23 56.4 14.60N 147.49E 36 5.0b,4.8s
ISCJB I 05 23 23 57.1–.35 14.72N–.04 147.30E–.05 27 4.6b,3.6s
NEIC I 05 23 23 57.9–4.7 14.74N 147.31E 19–28 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=15.1km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.9km az=168.3.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=6.9km az=88.0.
IDC I 06 10 01 35.1–1.3 15.26N 144.94E 0 3.6,3.5
¶17189586
IDC Error ellipse: s-maj=61.1km s-min=18.3km az=91.0.
IDC I 10 04 16 01.9–1.2 22.00N 143.22E 0 3.8,3.5
¶17189817
IDC Error ellipse: s-maj=49.6km s-min=26.7km az=107.0.
IDC I 11 06 10 09.9–1.5 21.67N 144.07E 0 3.7,3.5
¶17189903
IDC Error ellipse: s-maj=52.2km s-min=29.5km az=84.0.
IDC I 12 10 30 44.6–2.3 21.24N 142.02E 0 3.8,3.4
¶17189986
IDC Error ellipse: s-maj=222.1km s-min=25.1km az=109.0.
IDC I 13 18 56 08.4–10.0 21.97N 143.05E 317–82 4.0,3.4
¶17190090
IDC Error ellipse: s-maj=68.0km s-min=30.3km az=148.0.
IDC I 15 07 03 32.7–5.1 19.81N 143.93E 0 3.7,3.6
¶17190230
IDC Error ellipse: s-maj=228.0km s-min=94.7km az=45.0.
ISC I 18 02 52 04.9–.71 15.68N–.07 147.07E–.08 30 4.6b 46 1-145
IDC I 18 02 52 00.6–.92 15.81N 147.03E 0 4.8L,4.2 **¶15954489**
ISCJB I 18 02 52 02.5–.56 15.76N–.06 147.24E–.09 30 4.3b,4.2
NEIC I 18 02 52 09.8–1.6 15.70N 146.86E 68–11 4.5b,4.2
BJI I 18 02 52 13.6 15.80N 145.40E 36 5.1b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=15.5km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=8.9km az=171.9.
NEIC Event type se. Error ellipse: s-maj=23.9km s-min=9.5km az=89.0.
ISC I 19 08 30 27.6–.70 21.62N–.08 143.3E–.10 300 3.6b 40 5-150
ISCJB I 19 08 30 25.7–.55 21.50N–.05 143.2E–.10 300 3.6b **¶17190540**
IDC I 19 08 30 27.3–1.7 21.56N 143.18E 299–16 4.0,3.5
JMA I 19 08 30 28.1–.30 21.78N 143.59E 333 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=6.7km az=172.6.
IDC Error ellipse: s-maj=17.4km s-min=10.1km az=85.0.
JMA Error ellipse: s-maj=3.3km s-min=5.2km az=-1.0.
IDC I 19 12 15 01.3–26 21.61N 143.00E 380–282 3.8,3.3
¶17190557
IDC Error ellipse: s-maj=74.2km s-min=37.8km az=58.0.
ISC I 20 03 13 46.5–.89 21.6N–.10 143.1E–.20 311 3.5b 16 6-150
ISCJB I 20 03 13 44.8–.79 21.53N–.08 143.2E–.20 311 3.4b **¶17190598**
IDC I 20 03 13 47.2–2.4 21.61N 143.04E 317–22 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.7km s-min=10.8km az=176.3.
IDC Error ellipse: s-maj=23.9km s-min=14.3km az=87.0.
ISC I 21 10 28 15.1–.69 21.69N–.09 143.2E–.20 311 3.6b 25 5-150
ISCJB I 21 10 28 13.6–.58 21.64N–.07 143.2E–.10 311 3.7b **¶17190672**
IDC I 21 10 28 14.2–1.5 21.67N 143.17E 301–13 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=9.2km az=173.7.
IDC Error ellipse: s-maj=15.1km s-min=10.2km az=80.0.
ISC I 21 16 40 45.9–.24 17.97N–.03 147.56E–.04 53 5.2b,4.8s 786 2-167
IDC I 21 16 40 38.9–.32 17.98N 147.52E 0 5.3,5.2 **¶15954512**
MOS I 21 16 40 42.2–.91 17.99N 147.49E 33 5.4b,4.6s
BJI I 21 16 40 44.4 18.09N 147.42E 44 5.2b,5.0b
ISCJB I 21 16 40 44.7–.10 17.96N–.02 147.47E–.02 53 5.2b,4.9s
GCMT I 21 16 40 45.8–.20 17.94N 147.79E 14–0 5.2W,4.9s
NEIC I 21 16 40 45.8–.88 17.96N 147.43E 52–8 5.3b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=7.9km az=94.0.
MOS Error ellipse: s-maj=7.3km s-min=4.4km az=104.6.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.4km az=151.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c92; s109,c192; Duration: 1$\pm$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.86$\pm$.02 $M_{\theta\theta}$0.06$\pm$.01; $M_{\phi\phi}$0.79$\pm$.02; $M_{r\theta}$-0.09$\pm$.03; $M_{\theta\phi}$-0.20$\pm$.01; $M_{\phi r}$-0.05$\pm$.03; Best double couple: NP1:ϕ_s352.00000°,δ46.00000°,λ-81.00000°. NP2:ϕ_s159.00000°,δ44.00000°,λ-99.00000°. Principal axes: T 0.8490,Plg1.0000°,Azm76.0000°; N 0.0230,Plg6.0000°,Azm166.0000° ; P -0.8730,Plg83.0000°,Azm337.0000° $M_0$0.86100×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.7km az=105.0.
ISC I 21 21 21 24.4–.80 17.97N–.10 147.6E–.20 53 4.0b 19 5-146
IDC I 21 21 21 17.4–.80 18.05N 147.60E 0 4.5L,4.0 **¶16152044**
ISCJB I 21 21 21 22.7–.70 17.97N–.07 147.5E–.10 53 3.9b,4.0
NEIC I 21 21 21 23.3–2.1 18.02N 147.58E 42–20 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=19.1km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=8.3km az=19.5.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=12.6km az=83.0.
ISC I 23 21 27 35.0–1.1 16.9N–.20 147.4E–.20 41 3.7b 11 21-89
IDC I 23 21 27 28.9–1.2 16.90N 147.42E 0 3.9,3.7 **¶17190835**
ISCJB I 23 21 27 33.5–.98 16.9N–.10 147.3E–.20 41 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 00 49 08.2–.56 17.93N–.07 147.4E–.10 53 4.2b 38 5-146
IDC I 27 00 49 01.1–.53 18.02N 147.49E 0 4.4,4.3b **¶16135897**
ISCJB I 27 00 49 06.6–.48 17.95N–.05 147.4E–.10 53 4.3b,4.3b
NEIC I 27 00 49 06.2–.37 17.96N 147.42E 35 4.6b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=12.8km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=6.9km az=10.8.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=7.7km az=93.0.
ISC I 27 04 34 18.6–1.1 18.0N–.20 147.8E–.30 35 3.5b 8 10-78
IDC I 27 04 34 13.4–1.2 18.05N 147.85E 0 3.8s,3.8 **¶17191080**
ISCJB I 27 04 34 16.4–.98 18.1N–.10 147.8E–.30 33 3.4b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC I 28 01 44 57.7–.81 21.87N 143.02E 0 4.2,3.9
¶17191164
IDC Error ellipse: s-maj=56.8km s-min=18.8km az=102.0.
ISC I 29 03 47 16.2–.93 18.0N–.20 147.5E–.20 53 3.8b 12 40-88
IDC I 29 03 47 09.0–.88 18.06N 147.56E 0 3.9,3.7 **¶17191231**
ISCJB I 29 03 47 14.8–.69 18.0N–.10 147.4E–.20 53 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 12 38 59.3–.32 21.64N–.03 143.01E–.04 316–2 5.2b 1063 5-168
JMA I 29 12 38 58.2–.30 21.68N 143.31E 342 5.8 **¶15979849**
MOS I 29 12 38 58.0–.89 21.65N 142.94E 313 5.4b
IDC I 29 12 38 59.7–.80 21.63N 142.98E 319–7 5.4,4.8
NEIC I 29 12 38 60.0–.35 21.61N 142.96E 321–3 5.5W,5.2b
ISCJB I 29 12 38 59.1–.33 21.62N–.02 142.99E–.02 324–3 5.1b,5.2b
GCMT I 29 12 39 00.0–.20 21.71N 142.85E 319–1 5.5W,5.2b
BJI I 29 12 39 01.4 21.92N 142.65E 320 5.0b,4.9b
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=4.1km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.1km az=106.7.
IDC Error ellipse: s-maj=8.5km s-min=5.5km az=79.0.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=2.4km az=103.0. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86 $M_{\theta\theta}$-1.15 $M_{\phi\phi}$0.28 $M_{r\theta}$1.44 $M_{\theta\phi}$-0.66 $M_{\phi r}$0.79 Best double couple: NP1:ϕ_s264.00000°,δ18.00000°,λ112.00000°. NP2:ϕ_s61.00000° ,δ73.00000°,λ83.00000°. Principal axes: T 1.7400,Plg61.0000°,Azm320.0000° ; N 0.5200,Plg7.0000°,Azm63.0000°; P -2.2600,Plg28.0000°,Azm156.0000° $M_0$2.00000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.6km az=146.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s78,c128;Duration: 1$\pm$3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.52$\pm$.05 $M_{\theta\theta}$-1.05$\pm$.07; $M_{\phi\phi}$-0.46$\pm$.09; $M_{r\theta}$1.16$\pm$.08; $M_{\theta\phi}$-0.92$\pm$.07; $M_{\phi r}$0.29$\pm$.08; Best double couple: NP1:ϕ_s67.00000°,δ64.00000°,λ103.00000°. NP2:ϕ_s219.00000°,δ29.00000°,λ65.00000°. Principal axes: T 1.9680,Plg69.0000°,Azm4.0000°; N 0.1050,Plg12.0000°,Azm241.0000° ; P -2.0710,Plg18.0000°,Azm147.0000° $M_0$2.01900×10^{17}
ISC I 31 07 46 43.6–.69 21.7N–.10 143.2E–.20 300 3.8b 17 15-150
IDC I 31 07 46 41.6–5.0 21.68N 143.25E 278–49 4.1,3.7 **¶17191393**
ISCJB I 31 07 46 42.1–.61 21.66N–.09 143.2E–.20 300 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 04 18 43 16.0–2.0 21.61N 143.34E 300–19 3.8,3.3
¶17191685
IDC Error ellipse: s-maj=35.9km s-min=13.9km az=95.0.
ISC II 05 16 27 22.4–.48 21.92N–.05 143.52E–.08 200 4.4b 163 5-146
ISCJB II 05 16 27 20.6–.38 21.85N–.03 143.53E–.07 200 4.3b **¶16168805**
MOS II 05 16 27 21.6–1.1 21.85N 143.45E 209 4.6b
NEIC II 05 16 27 23.0–1.1 21.85N 143.50E 209–10 4.6b
JMA II 05 16 27 22.3–.20 22.12N 144.05E 208–2 5.5
IDC II 05 16 27 22.3–1.3 21.84N 143.38E 200–10 4.5,4.1
BJI II 05 16 27 24.2 21.97N 142.92E 200 4.9b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=4.0km az=1.2.
MOS Error ellipse: s-maj=13.5km s-min=6.1km az=114.6.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=88.0.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=14.2km s-min=9.7km az=82.0.
IDC II 08 02 22 11.5–1.7 15.09N 147.74E 0 3.9,3.8
¶17191885
IDC Error ellipse: s-maj=47.4km s-min=19.0km az=93.0.
IDC II 08 13 36 26.1–.93 16.48N 147.17E 0 4.0,4.0L
¶17191898
IDC Error ellipse: s-maj=151.8km s-min=18.4km az=115.0.
IDC II 10 17 20 41.2–3.1 21.04N 146.36E 0 3.7,3.5
¶17192026
IDC Error ellipse: s-maj=116.8km s-min=21.9km az=83.0.
ISC II 11 09 06 04.4–.75 21.59N–.04 143.09E–.07 304–7 4.4b 201 5-152
BJI II 11 09 06 02.2 21.60N 143.10E 295 4.7b,4.2b **¶16358574**
ISCJB II 11 09 06 03.4–.46 21.57N–.03 143.00E–.04 300–4 4.3b,4.2b
JMA II 11 09 06 04.8–.20 21.84N 143.63E 325 4.5,4.2b
NEIC II 11 09 06 04.5–.55 21.54N 143.05E 301–5 4.5b,4.2b
IDC II 11 09 06 05.3–1.4 21.54N 143.11E 313–13 4.6,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=172.7.
JMA Error ellipse: s-maj=2.2km s-min=6.2km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=86.0.
IDC Error ellipse: s-maj=12.6km s-min=7.0km az=93.0.
ISC II 12 19 31 22.2–.59 20.91N–.06 146.0E–.20 100 3.9b 24 7-147
IDC II 12 19 31 20.2–2.5 20.94N 146.04E 75–23 4.1,4.0 **¶17192123**
ISCJB II 12 19 31 21.3–.45 20.92N–.05 146.0E–.10 100 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 12 19 53 53.2–1.0 20.8N–.20 146.3E–.20 37 3.4b 10 23-85
IDC II 12 19 53 47.6–1.1 20.80N 146.36E 0 3.7,3.6 **¶17192124**
ISCJB II 12 19 53 51.4–.93 20.8N–.20 146.3E–.20 37 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 18 08 58.7–.73 21.75N–.09 143.8E–.10 35 4.1b,3.5s 31 6-145
IDC II 17 18 08 53.4–.67 21.84N 143.82E 0 4.2,4.0b **¶16339756**
ISCJB II 17 18 08 56.8–.50 21.76N–.05 143.7E–.10 35 4.0b,3.6s
NEIC II 17 18 08 59.4–2.1 21.79N 143.76E 40–18 4.7b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=17.2km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=7.0km az=170.1.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=12.4km az=93.0.
ISC II 18 21 53 40.4–.51 21.99N–.06 143.25E–.10 35 4.1b 42 5-100
IDC II 18 21 53 35.2–.94 21.99N 143.16E 0 4.2L,3.9 **¶16398514**
ISCJB II 18 21 53 38.4–.39 22.00N–.04 143.20E–.08 33 4.1b,3.7s
NEIC II 18 21 53 40.5–1.0 21.96N 143.23E 36–9 4.2b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=34.6km s-min=18.2km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.0km az=176.5.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.3km az=87.0.
IDC II 18 22 51 16.1–4.1 20.98N 143.61E 0 3.8,3.6
¶17192510
IDC Error ellipse: s-maj=106.9km s-min=40.5km az=161.0.
IDC II 20 18 32 36.5–7.7 21.04N 146.42E 0 4.0,3.7
¶17192599
IDC Error ellipse: s-maj=248.6km s-min=36.4km az=6.0.
IDC II 23 21 37 50.1–1.3 17.68N 147.24E 0 3.8,3.6b
¶17192760
IDC Error ellipse: s-maj=40.5km s-min=23.7km az=91.0.
IDC II 25 15 17 05.3–1.3 17.94N 148.42E 0 3.7,3.5
¶17192846
IDC Error ellipse: s-maj=59.1km s-min=25.3km az=101.0.
ISC III 02 03 10 32.4–.66 21.59N–.09 143.2E–.20 311 3.7b 26 6-150
ISCJB III 02 03 10 30.9–.61 21.54N–.07 143.2E–.20 311 3.6b **¶17193105**
IDC III 02 03 10 31.2–1.7 21.54N 143.14E 296–16 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=8.9km az=174.1.
IDC Error ellipse: s-maj=20.4km s-min=9.9km az=82.0.
IDC III 04 15 34 31.8–1.2 21.17N 142.79E 0 3.7,3.4
¶17193238
IDC Error ellipse: s-maj=35.3km s-min=21.5km az=75.0.
ISC III 08 00 53 31.1–.96 21.7N–.10 143.1E–.20 311 3.1b 12 15-146
IDC III 08 00 53 29.7–5.5 21.69N 143.13E 293–54 3.8,3.3 **¶17193442**
ISCJB III 08 00 53 29.8–1.0 21.7N–.10 143.1E–.30 311 3.3b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 01 24 30.5–.38 21.70N–.06 143.15E–.08 311 4.5b 88 5-153
ISCJB III 12 01 24 29.4–.28 21.65N–.04 143.11E–.06 311 4.4b **¶16442318**
NEIC III 12 01 24 30.0–.65 21.63N 143.14E 305–6 4.5b
IDC III 12 01 24 30.1–1.6 21.64N 143.12E 302–15 4.9,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.5km az=176.6.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.6km az=93.0.
IDC Error ellipse: s-maj=12.3km s-min=8.3km az=82.0.
ISC III 15 04 53 52.3–.73 21.72N–.09 143.0E–.20 311 3.4b 14 5-150
IDC III 15 04 53 50.9–1.8 21.67N 143.08E 295–17 4.0,3.5 **¶17196033**
ISCJB III 15 04 53 50.8–.66 21.65N–.07 143.1E–.20 311 3.4b,3.5
ISC Event type ke.

ISCJB Event type ke.
ISC III 16 11 56 04.5–.98 22.0N–.20 145.5E–.20 36 3.5b 10 22-81
IDC III 16 11 55 59.1–.88 22.01N 145.52E 0 3.8,3.6 **¶17196453**
ISCJB III 16 11 56 02.7–.79 22.0N–.10 145.4E–.20 36 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 00 50 32.2–.83 21.93N–.06 143.17E–.07 226–6 4.6b 297 5-150
ISCJB III 23 00 50 30.8–.86 21.88N–.04 143.09E–.04 224–7 4.5b **¶16342657**
IDC III 23 00 50 31.2–1.3 21.87N 143.19E 218–11 4.7,4.3
NEIC III 23 00 50 35.0–1.1 21.86N 143.09E 253–10 4.6b,4.3
BJI III 23 00 50 38.4 22.34N 142.61E 253 4.8b,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=151.7.
IDC Error ellipse: s-maj=10.8km s-min=7.6km az=98.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=129.0.
IDC III 24 09 04 53.3–1.3 21.92N 143.93E 0 3.8,3.6
¶17198313
IDC Error ellipse: s-maj=54.2km s-min=29.4km az=107.0.
ISC III 25 19 49 31.1–1.3 19.4N–.10 147.7E–.30 35 3.6b 9 6-67
IDC III 25 19 49 26.1–1.3 19.48N 147.76E 0 4.2L,3.7 **¶17198543**
ISCJB III 25 19 49 29.0–1.2 19.4N–.10 147.7E–.30 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 11 02 03.4–.85 21.83N–.05 143.07E–.07 290–8 4.3b 169 5-153
BJI III 27 11 02 00.0 21.65N 143.29E 294 4.6b,4.2b **¶16362963**
IDC III 27 11 02 02.6–1.2 21.83N 143.03E 282–12 4.5,4.0
ISCJB III 27 11 02 02.1–.58 21.77N–.03 142.98E–.04 287–5 4.3b,4.0
NEIC III 27 11 02 04.1–.51 21.80N 142.99E 295–5 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=7.0km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=175.2.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=88.0.
IDC III 28 03 44 50.4–2.6 21.92N 143.16E 316–26 3.8,3.2
¶17198899
IDC Error ellipse: s-maj=25.7km s-min=14.9km az=94.0.
IDC III 28 14 00 38.0–1.9 19.15N 141.07E 0 4.1,4.0
¶17198959
IDC Error ellipse: s-maj=80.3km s-min=23.1km az=72.0.
ISC III 28 20 33 03.3–.76 21.67N–.09 143.1E–.20 311 3.4b 19 5-83
ISCJB III 28 20 33 01.8–.63 21.61N–.07 143.1E–.20 311 3.6b **¶17198989**
IDC III 28 20 33 02.5–1.8 21.64N 143.18E 304–16 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.5km s-min=9.3km az=173.9.
IDC Error ellipse: s-maj=21.3km s-min=11.0km az=86.0.
ISC III 30 06 04 37.4–.56 21.93N–.09 143.9E–.20 105 4.2b 30 15-149
ISCJB III 30 06 04 35.2–.45 21.86N–.07 143.9E–.10 105 4.2b **¶16475782**
IDC III 30 06 04 36.9–5.4 21.87N 143.89E 106–48 4.5s,4.5
NEIC III 30 06 04 39.5–2.8 21.86N 143.85E 132–25 4.4b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=9.6km az=173.6.
IDC Error ellipse: s-maj=20.8km s-min=13.1km az=95.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=9.1km az=92.0.
IDC IV 05 13 17 05.2–7.5 21.23N 144.53E 167–69 3.7,3.4
¶17199896
IDC Error ellipse: s-maj=33.6km s-min=14.4km az=82.0.
ISC IV 06 04 04 26.9–.83 21.7N–.10 143.4E–.20 250 4.0b 28 5-150
ISCJB IV 06 04 04 24.3–.79 21.53N–.10 143.4E–.10 250 4.0b **¶17199959**
IDC IV 06 04 04 28.0–3.4 21.65N 143.40E 266–27 4.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=13.8km az=175.1.
IDC Error ellipse: s-maj=25.0km s-min=14.7km az=174.0.
IDC IV 07 04 53 22.7–2.5 21.64N 143.36E 324–25 4.0,3.3
¶17200080
IDC Error ellipse: s-maj=57.4km s-min=14.2km az=80.0.
IDC IV 08 10 06 58.5–7.3 21.77N 143.04E 291–45 3.9,3.3
¶17200231
IDC Error ellipse: s-maj=74.0km s-min=34.5km az=176.0.
IDC IV 08 14 03 28.5–16 21.80N 143.35E 201–157 3.6,3.4
¶17200250
IDC Error ellipse: s-maj=45.5km s-min=19.9km az=70.0.
IDC IV 14 01 45 54.8–4.7 20.73N 143.59E 0 3.8,3.7
¶17200976
IDC Error ellipse: s-maj=122.5km s-min=52.1km az=2.0.
ISC IV 16 20 10 17.3–.73 18.59N–.07 147.8E–.10 35 3.7b 25 6-88
IDC IV 16 20 10 12.6–.92 18.71N 147.89E 0 4.1L,3.9 **¶16587532**
NEIC IV 16 20 10 13.9–.41 18.67N 147.90E 10 4.4b,3.9
ISCJB IV 16 20 10 15.4–.52 18.64N–.06 147.9E–.10 33 3.7b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 16 20 53 29.4–1.7 14.10N 143.50E 0 3.9,3.8
¶17201257
IDC Error ellipse: s-maj=38.6km s-min=28.8km az=139.0.
IDC IV 17 13 00 31.5–1.4 19.95N 146.20E 0 3.5,3.3
¶17201319
IDC Error ellipse: s-maj=54.2km s-min=24.0km az=88.0.
ISC IV 19 23 51 39.1–.95 21.8N–.20 144.4E–.20 69 3.8b 10 43-84
IDC IV 19 23 51 30.3–.85 21.80N 144.49E 0 4.0,3.8 **¶17201563**
ISCJB IV 19 23 51 37.5–.78 21.8N–.10 144.4E–.20 69 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 08 51 14.7–1.0 19.8N–.10 142.9E–.20 35 3.7b 6 7-78
IDC IV 22 08 51 09.3–.95 19.88N 142.83E 0 4.1,3.9 **¶17201799**
ISCJB IV 22 08 51 12.6–.94 19.8N–.10 142.9E–.20 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 15 59 53.4–1.1 21.87N–.09 143.3E–.30 200 3.5b 11 5-83
ISCJB IV 22 15 59 51.5–.69 21.84N–.06 143.4E–.20 200 3.4b **¶17201830**
IDC IV 22 15 59 56.3–5.2 21.91N 143.29E 230–51 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.9km s-min=8.8km az=175.5.
IDC Error ellipse: s-maj=28.0km s-min=10.6km az=92.0.
IDC IV 27 09 46 56.8–9.9 21.76N 143.57E 222–97 3.8,3.3
¶17202225
IDC Error ellipse: s-maj=27.0km s-min=14.8km az=88.0.
ISC IV 27 19 57 06.0–1.2 21.6N–.10 143.2E–.30 350 3.3b 9 29-83
ISCJB IV 27 19 57 04.6–1.0 21.6N–.10 143.2E–.30 350 3.3b **¶17202257**
IDC IV 27 19 57 04.7–8.5 21.58N 143.27E 337–89 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.3km s-min=16.4km az=174.4.
IDC Error ellipse: s-maj=42.4km s-min=13.7km az=81.0.
ISC V 05 08 37 45.4–1.0 16.6N–.10 147.7E–.20 35 3.7b 10 4-146
ISCJB V 05 08 37 43.6–.95 16.6N–.10 147.6E–.20 33 3.6b **¶17202830**
IDC V 05 08 37 46.7–4.8 16.63N 147.70E 46–47 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.8km s-min=9.6km az=26.8.
IDC Error ellipse: s-maj=41.5km s-min=19.2km az=91.0.
ISC V 07 02 59 19.3–.62 21.38N–.08 144.0E–.10 33 4.0b,3.3s 37 6-151
IDC V 07 02 59 14.5–.62 21.43N 144.16E 0 4.1,3.9 **¶16578044**
ISCJB V 07 02 59 18.1–.42 21.41N–.05 143.86E–.10 33 4.0b,3.3s
NEIC V 07 02 59 20.9–2.1 21.41N 143.87E 45–18 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=14.3km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=6.4km az=170.6.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=10.1km az=103.0.
ISC V 10 00 33 18.3–1.1 14.08N–.06 147.86E–.06 26–7 4.8b,3.5s 207 3-153
ISCJB V 10 00 33 14.8–.20 14.14N–.04 147.73E–.03 10 4.7b,3.5s **¶16501981**
IDC V 10 00 33 14.2–.49 14.17N 147.81E 0 4.6,4.6L
NEIC V 10 00 33 17.6–3.3 14.11N 147.74E 20–23 4.9b,4.6L
MOS V 10 00 33 18.0–.98 14.14N 147.67E 33 4.8b,4.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=169.4.
IDC Error ellipse: s-maj=17.7km s-min=13.1km az=86.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.8km az=80.0.
MOS Error ellipse: s-maj=12.9km s-min=8.0km az=104.9.
ISC V 13 20 20 27.5–1.0 21.45N–.09 143.4E–.30 300 3.5b 11 6-83
ISCJB V 13 20 20 26.0–.92 21.48N–.10 143.4E–.30 300 3.2b **¶17203569**
IDC V 13 20 20 28.5–1.9 21.50N 143.36E 309–19 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.4km s-min=12.1km az=172.4.
IDC Error ellipse: s-maj=34.0km s-min=12.3km az=82.0.
ISC V 20 00 31 12.3–.90 21.6N–.10 145.7E–.20 35 3.8b 19 6-84
IDC V 20 00 31 06.7–.98 21.52N 145.85E 0 4.1L,3.8 **¶16591594**
ISCJB V 20 00 31 10.7–.68 21.63N–.08 145.6E–.10 35 3.8b,3.8
NEIC V 20 00 31 12.0–.57 21.56N 145.74E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=31.8km s-min=18.9km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=21.4km s-min=8.5km az=156.3.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.3km az=83.0.
IDC V 20 21 33 55.7–7.2 17.00N 147.18E 0 3.5,3.4
¶17204086
IDC Error ellipse: s-maj=278.5km s-min=23.4km az=82.0.
ISC V 20 21 58 44.4–1.6 17.0N–.20 147.0E–.50 48 3.9b 10 21-146
IDC V 20 21 58 47.4–9.8 17.03N 146.94E 75–85 3.7,3.5 **¶17204088**
ISC Event type ke.
IDC Error ellipse: s-maj=61.5km s-min=17.2km az=81.0.
IDC V 21 07 26 49.1–2.2 21.62N 143.09E 298–21 3.7,3.1
¶17204117
IDC Error ellipse: s-maj=40.4km s-min=18.0km az=91.0.
ISC V 23 21 26 36.9–.83 21.6N–.10 143.1E–.20 311 3.3b 15 6-98
ISCJB V 23 21 26 35.5–.66 21.55N–.08 143.1E–.20 311 3.2b **¶17204323**
IDC V 23 21 26 36.5–2.0 21.60N 143.16E 307–18 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=10.5km az=176.4.
IDC Error ellipse: s-maj=23.2km s-min=15.0km az=95.0.
ISC V 26 17 11 36.6–.87 17.0N–.10 147.7E–.20 41 3.8b 18 4-89
IDC V 26 17 11 30.7–.79 16.99N 147.80E 0 4.0,4.0L **¶17204518**
ISCJB V 26 17 11 35.1–.67 16.98N–.07 147.6E–.10 41 3.7b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC V 26 17 13 01.4–.80 17.0N–.10 147.6E–.20 41 3.7b 17 4-146
IDC V 26 17 12 55.6–.77 17.05N 147.63E 0 4.0,3.9L **¶17204519**
ISCJB V 26 17 12 59.7–.74 17.04N–.08 147.6E–.10 41 3.7b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC V 28 07 49 40.1–1.5 16.2N–.20 149.3E–.30 35 3.7b 8 23-79
IDC V 28 07 49 34.7–1.4 16.18N 149.39E 0 4.1s,4.1 **¶17204612**
ISCJB V 28 07 49 38.2–1.4 16.2N–.10 149.3E–.30 33 4.0s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC V 29 07 06 01.9–.97 16.9N–.10 147.7E–.20 41 3.7b 11 4-146
ISCJB V 29 07 05 59.8–.88 16.9N–.10 147.7E–.20 41 3.6b **¶17204680**
IDC V 29 07 06 02.0–4.3 16.96N 147.74E 44–41 4.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.5km s-min=9.2km az=29.5.
IDC Error ellipse: s-maj=26.6km s-min=22.9km az=84.0.
ISC V 29 11 15 34.8–.74 16.9N–.10 147.7E–.20 41 3.8b 19 4-89
ISCJB V 29 11 15 33.1–.64 16.96N–.09 147.6E–.10 41 3.7b **¶17204690**
IDC V 29 11 15 35.1–.77 16.95N 147.76E 45–6 4.2L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=8.2km az=28.4.
IDC Error ellipse: s-maj=23.2km s-min=14.1km az=113.0.
ISC VI 04 15 36 20.7–1.1 16.9N–.10 147.8E–.20 35 3.7b 12 4-79
IDC VI 04 15 36 15.4–1.1 16.98N 147.96E 0 4.1L,3.9 **¶17205233**
ISCJB VI 04 15 36 18.8–.95 16.93N–.09 147.8E–.20 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 15 39 29.7–1.1 17.1N–.20 147.7E–.20 35 3.5b 8 4-79
IDC VI 04 15 39 24.4–1.1 17.18N 147.79E 0 3.8,3.8L **¶17205234**
ISCJB VI 04 15 39 27.7–.98 17.1N–.10 147.7E–.20 33 3.4b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 15 54 20.5–.93 17.0N–.10 147.8E–.20 35 3.9b 18 4-89
IDC VI 04 15 54 15.2–.82 17.02N 147.85E 0 4.1,4.0L **¶17205236**
ISCJB VI 04 15 54 18.4–.82 16.97N–.08 147.7E–.20 33 3.9b,4.0L
ISC Event type ke.
ISCJB Event type ke.
IDC VI 05 20 31 34.2–1.3 16.92N 147.96E 0 3.7,3.4
¶17205355
IDC Error ellipse: s-maj=40.1km s-min=23.8km az=94.0.
ISC VI 09 04 14 04.3–.60 21.59N–.08 144.5E–.10 114 4.3b 47 6-130
ISCJB VI 09 04 14 02.6–.43 21.59N–.05 144.46E–.09 114 4.3b **¶16684513**
NEIC VI 09 04 14 07.8–1.4 21.66N 144.27E 145–12 4.5b
IDC VI 09 04 14 07.4–.71 21.64N 144.27E 141–5 4.4,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=6.3km az=168.2.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.7km az=102.0.
IDC Error ellipse: s-maj=16.7km s-min=10.1km az=80.0.
IDC VI 10 23 25 23.5–12 16.39N 143.88E 89–121 3.7,3.6
¶17205742
IDC Error ellipse: s-maj=69.7km s-min=18.7km az=91.0.
ISC VI 18 17 28 04.7–.76 14.34N–.08 147.07E–.09 33 4.1b 27 2-91
IDC VI 18 17 28 00.5–1.1 14.46N 146.98E 0 4.0,4.0L **¶16730906**
ISCJB VI 18 17 28 02.8–.53 14.39N–.06 147.10E–.07 33 4.2b,4.0L
NEIC VI 18 17 28 04.5–2.6 14.38N 147.06E 30–19 4.7b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=30.5km s-min=18.3km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=8.7km az=37.2.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.6km az=68.0.
ISC VI 18 22 58 09.4–.37 20.61N–.05 146.70E–.06 34 4.7b,3.8s 149 4-149
IDC VI 18 22 57 59.9–.61 19.94N 146.69E 0 4.3,4.2 **¶16684537**
ISCJB VI 18 22 58 07.8–.26 20.61N–.04 146.74E–.04 34 4.6b,3.7s
BJI VI 18 22 58 11.5 20.62N 146.51E 64 4.9b,4.6b
MOS VI 18 22 58 19.9–1.2 20.73N 146.53E 144 4.4b,4.6b
NEIC VI 18 22 58 22.5–.61 20.64N 146.57E 157–6 4.6b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=14.7km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.2km az=152.6.
MOS Error ellipse: s-maj=15.4km s-min=7.4km az=116.5.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=87.0.
IDC VI 19 01 41 22.8–.93 19.99N 146.79E 0 4.4L,4.0
¶17206504
IDC Error ellipse: s-maj=33.0km s-min=19.4km az=91.0.
ISC VI 20 08 47 15.0–1.0 21.7N–.10 143.1E–.30 311 3.5b 12 5-146
ISCJB VI 20 08 47 13.3–.97 21.69N–.08 143.2E–.30 311 3.4b **¶17206585**
IDC VI 20 08 47 13.4–1.9 21.66N 143.11E 293–18 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.3km s-min=10.7km az=176.0.
IDC Error ellipse: s-maj=33.3km s-min=12.8km az=87.0.
IDC VI 23 04 00 48.1–4.3 17.31N 144.95E 120–37 4.0,3.9
¶17206797
IDC Error ellipse: s-maj=105.1km s-min=25.0km az=106.0.
ISC VI 23 04 10 17.3–1.0 21.7N–.10 143.2E–.20 311 3.5b 13 5-83
ISCJB VI 23 04 10 15.8–.81 21.63N–.08 143.3E–.20 311 3.5b **¶17206798**
IDC VI 23 04 10 16.3–2.0 21.64N 143.24E 301–18 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.6km s-min=10.8km az=174.9.
IDC Error ellipse: s-maj=27.9km s-min=13.1km az=88.0.
ISC VI 23 06 57 31.0–.74 21.92N–.08 143.2E–.20 200 3.7b 20 5-150
ISCJB VI 23 06 57 29.0–.61 21.89N–.06 143.4E–.20 200 3.6b **¶17206805**
IDC VI 23 06 57 33.5–2.4 21.96N 143.22E 227–23 4.1,3.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=24.7km s-min=8.2km az=175.2.
IDC Error ellipse: s-maj=22.8km s-min=9.9km az=94.0.
ISC VI 25 03 18 53.9–.33 20.76N–.04 146.43E–.06 37 4.9b,3.7s 260 4-150
ISCJB VI 25 03 18 51.9–.19 20.65N–.03 146.39E–.04 37 4.8b,3.7s ¶16681188
BJI VI 25 03 18 52.2 20.75N 146.26E 31 5.1b,4.8b
MOS VI 25 03 18 54.9–.96 20.66N 146.32E 61 5.0b,4.8b
NEIC VI 25 03 18 57.3–.68 20.68N 146.34E 70–6 4.9b,4.8b
IDC VI 25 03 18 57.7–1.8 20.65N 146.35E 75–15 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.3km az=172.2.
MOS Error ellipse: s-maj=9.7km s-min=5.4km az=108.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=88.0.
IDC Error ellipse: s-maj=17.2km s-min=8.8km az=78.0.
IDC VI 25 17 58 07.1–3.0 19.43N 146.29E 0 3.8,3.6
¶17206930

IDC Error ellipse: s-maj=118.2km s-min=24.6km az=86.0.
IDC VI 26 03 07 18.2–6.3 21.78N 145.53E 188–60 3.9,3.5
¶17206955

IDC Error ellipse: s-maj=25.8km s-min=15.0km az=84.0.
IDC VI 26 07 38 06.3–1.2 21.53N 146.26E 0 3.6,3.3
¶17206965

IDC Error ellipse: s-maj=55.9km s-min=24.5km az=99.0.
IDC VI 29 06 04 31.8–2.1 21.71N 143.13E 288–18 3.9,3.4
¶17207170

IDC Error ellipse: s-maj=25.4km s-min=15.5km az=86.0.

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IDC I 02 16 42 26.1–1.7 14.31N 144.98E 97–13 4.0s,4.0
¶17189227

IDC Error ellipse: s-maj=140.6km s-min=17.3km az=114.0.
IDC I 03 18 08 43.4–.79 18.84N 145.88E 0 4.0,3.7
¶17189349

IDC Error ellipse: s-maj=31.8km s-min=17.6km az=94.0.
IDC I 04 15 15 46.5–6.3 19.20N 145.40E 159–51 3.6,3.4
¶17189436

IDC Error ellipse: s-maj=134.2km s-min=26.8km az=115.0.
ISC I 05 06 00 13.1–.98 16.87N–.10 145.7E–.30 300 3.3b 10 3-80
ISCJB I 05 06 00 11.8–.86 16.93N–.08 145.6E–.30 300 3.2b ¶17189482
IDC I 05 06 00 12.1–1.5 16.93N 145.70E 288–17 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.9km s-min=10.5km az=3.3.
IDC Error ellipse: s-maj=28.6km s-min=18.3km az=89.0.
ISC I 05 07 18 17.8–.98 18.7N–.10 145.6E–.30 214 3.7b 6 5-87
IDC I 05 07 18 10.3–3.3 19.09N 145.70E 128–32 4.0,3.8 ¶17189488
ISCJB I 05 07 18 16.8–.78 18.72N–.09 145.6E–.30 214 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 06 07 55 02.8–1.1 14.9N–.20 146.9E–.20 32 3.6b 10 2-99
IDC I 06 07 54 57.7–1.1 14.99N 147.08E 0 3.9,3.7 ¶17189577
ISCJB I 06 07 55 00.5–.91 15.0N–.10 147.1E–.10 32 4.2s,3.6b
ISC Event type ke.
ISCJB Event type ke.
IDC I 08 22 59 50.6–1.1 19.75N 145.38E 0 3.9,3.7
¶17189727

IDC Error ellipse: s-maj=35.2km s-min=22.1km az=94.0.
IDC I 10 13 51 45.5–5.6 18.51N 144.95E 168–27 3.5,3.1
¶17189855

IDC Error ellipse: s-maj=195.5km s-min=19.4km az=80.0.
IDC I 11 19 58 45.8–2.5 17.48N 145.65E 173–29 3.4,3.2
¶17189943

IDC Error ellipse: s-maj=31.3km s-min=24.2km az=94.0.
IDC I 12 05 30 23.6–3.4 13.63N 145.48E 0 3.9,3.7
¶17189972

IDC Error ellipse: s-maj=103.8km s-min=51.0km az=21.0.
ISC I 14 10 01 20.8–.45 18.97N–.06 145.5E–.10 214 4.3b 64 5-148
MOS I 14 10 01 00.1–1.4 19.01N 145.64E 33 4.7b ¶15927325
NEIC I 14 10 01 16.8–.96 18.96N 145.53E 173–9 4.6b
IDC I 14 10 01 17.9–1.6 19.02N 145.54E 182–16 4.3,3.9
ISCJB I 14 10 01 19.5–.34 19.03N–.05 145.43E–.07 214 4.2b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 14 12 03 54.5–1.6 17.46N 145.80E 0 3.7,3.3
¶17190162

IDC Error ellipse: s-maj=288.2km s-min=22.5km az=111.0.
IDC I 17 02 52 51.2–23 18.80N 144.93E 230–230 3.8,3.6
¶17190366

IDC Error ellipse: s-maj=71.7km s-min=33.7km az=121.0.
ISC I 20 15 31 44.5–.94 13.5N–.20 145.8E–.10 43 3.6b 11 1-147
IDC I 20 15 31 38.4–.88 13.57N 145.93E 0 3.8,3.6b ¶17190630
ISCJB I 20 15 31 42.8–.83 13.5N–.10 145.87E–.08 43 3.5b,2.9s
ISC Event type ke.
ISCJB Event type ke.
IDC I 22 16 33 12.0–4.3 19.09N 145.17E 414–47 3.9,3.2
¶17190756

IDC Error ellipse: s-maj=25.9km s-min=16.9km az=92.0.
IDC I 22 19 46 43.5–18 19.30N 145.37E 204–183 3.6,3.3
¶17190762

IDC Error ellipse: s-maj=53.1km s-min=26.1km az=81.0.
ISC I 23 16 00 11.8–.77 18.7N–.10 145.3E–.20 250 3.5b 11 19-87
ISCJB I 23 16 00 10.4–.66 18.7N–.10 145.4E–.20 250 3.5b ¶17190814
IDC I 23 16 00 10.3–5.8 18.66N 145.55E 233–57 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.2km s-min=13.8km az=3.2.
IDC Error ellipse: s-maj=27.4km s-min=11.3km az=94.0.
IDC I 24 13 54 18.2–29 19.20N 145.32E 591–300 3.5,2.8
¶17190896

IDC Error ellipse: s-maj=204.8km s-min=46.7km az=168.0.
ISC I 25 13 01 28.0–.92 13.0N–.20 144.4E–.20 54 3.6b 11 22-135
IDC I 25 13 01 20.6–.86 13.07N 144.44E 0 3.9,3.7 ¶17190963
ISCJB I 25 13 01 26.4–.78 13.0N–.10 144.3E–.20 54 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC I 25 19 47 17.2–6.2 19.01N 145.17E 270–62 3.5,3.1
¶17190982

IDC Error ellipse: s-maj=33.9km s-min=16.8km az=96.0.
IDC I 28 13 22 34.6–2.0 19.20N 144.98E 0 3.9,3.5
¶17191195

IDC Error ellipse: s-maj=187.2km s-min=25.2km az=114.0.
ISC I 30 02 04 54.9–.45 13.03N–.05 145.87E–.05 61–3 5.0b 528 1-155
IDC I 30 02 04 46.4–.45 13.02N 145.97E 0 4.8,4.7 ¶15981232
MOS I 30 02 04 50.5–1.1 13.06N 145.82E 33 5.3b,4.7
ISCJB I 30 02 04 50.4–1.2 13.03N–.03 145.80E–.03 33–10 5.0b,4.2s
NEIC I 30 02 04 54.4–.78 13.01N 145.82E 54–7 5.1b,4.2s
GCMT I 30 02 04 54.4–.40 12.88N 146.04E 43–1 4.9W,4.2s
BJI I 30 02 04 54.0 13.17N 145.95E 63 5.1b,4.9b
ISC Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=12.1km az=80.0.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=103.4.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=4.1.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=128.0. Felt at Hagatna and Santa Rita.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c41; s62,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.68±.19 $M_{\theta\theta}$0.00±.13; $M_{\phi\phi}$-2.68±.12; $M_{r\theta}$1.28±.12; $M_{\theta\phi}$0.56±.11; $M_{\phi r}$0.43±.13; Best double couple: NP1:ϕ_s10.00000°,δ51.00000°,λ120.00000°. NP2:ϕ_s148.00000°,δ48.00000°,λ58.00000°. Principal axes: T 3.2560,Plg67.0000°,Azm345.0000°; N -0.4570,Plg23.0000°,Azm170.0000°; P -2.7990,Plg2.0000°,Azm80.0000° M_o3.02700×10^{16}
IDC I 31 05 27 17.3–18 13.62N 144.14E 0 4.0,3.6
¶17191389

IDC Error ellipse: s-maj=591.7km s-min=160.6km az=64.0.
IDC II 01 02 37 25.9–.84 18.78N 146.56E 0 3.9,3.6
¶17191451

IDC Error ellipse: s-maj=39.2km s-min=19.6km az=109.0.
IDC II 02 08 31 04.7–.86 18.41N 145.83E 0 3.8,3.5
¶17191531

IDC Error ellipse: s-maj=35.1km s-min=19.5km az=106.0.
ISC II 02 15 22 37.8–.70 18.21N–.09 145.5E–.20 450 3.4b 19 9-148
ISCJB II 02 15 22 36.3–.62 18.17N–.07 145.5E–.20 450 3.4b ¶17191549
IDC II 02 15 22 38.8–2.6 18.29N 145.43E 460–30 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=9.8km az=172.4.
IDC Error ellipse: s-maj=19.8km s-min=10.7km az=92.0.
ISC II 04 16 07 13.7–.53 18.72N–.07 145.2E–.10 600 3.9b 51 5-148
BJI II 04 16 07 02.8 18.18N 146.14E 569 4.9b,4.5b ¶16397588
ISCJB II 04 16 07 12.6–.47 18.76N–.06 145.2E–.10 600 3.9b,4.5b
IDC II 04 16 07 13.0–1.1 18.80N 145.26E 582–13 4.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.3km az=179.4.
IDC Error ellipse: s-maj=12.7km s-min=8.6km az=91.0.
IDC II 05 06 15 36.3–1.0 18.72N 145.68E 0 3.6,3.4
¶17191720

IDC Error ellipse: s-maj=50.2km s-min=22.3km az=104.0.
IDC II 06 01 06 00.6–9.2 18.97N 144.96E 0 3.8,3.6
¶17191772

IDC Error ellipse: s-maj=267.9km s-min=53.8km az=5.0.
IDC II 06 02 31 56.8–4.4 18.35N 145.96E 83–42 3.8,3.7
¶17191774

IDC Error ellipse: s-maj=46.9km s-min=22.5km az=103.0.
IDC II 06 20 20 57.1–4.7 13.10N 145.54E 60–48 3.5,3.5
¶17191824

IDC Error ellipse: s-maj=78.4km s-min=24.2km az=106.0.
ISC II 07 14 52 36.8–.72 15.88N–.08 145.6E–.20 200 3.9b 21 2-89
ISCJB II 07 14 52 35.3–.56 15.91N–.06 145.7E–.10 200 3.8b ¶17191862
IDC II 07 14 52 37.0–.98 15.82N 145.62E 207–11 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=8.0km az=8.2.
IDC Error ellipse: s-maj=17.3km s-min=12.0km az=79.0.
ISC II 08 04 50 44.5–.50 15.38N–.06 145.7E–.10 150 4.1b 40 2-144
ISCJB II 08 04 50 42.5–.36 15.34N–.06 145.61E–.09 150 4.1b ¶16029584
IDC II 08 04 50 46.3–.73 15.31N 145.61E 172–6 4.3,4.0
NEIC II 08 04 50 47.0–1.1 15.33N 145.60E 179–10 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=8.1km az=177.1.
IDC Error ellipse: s-maj=13.3km s-min=7.6km az=96.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.5km az=77.0.
ISC II 10 15 40 21.5–.78 17.8N–.10 145.5E–.30 150 3.7b 12 4-148
ISCJB II 10 15 40 19.6–.67 17.76N–.09 145.4E–.30 150 3.5b ¶17192016
IDC II 10 15 40 23.2–2.1 17.61N 145.58E 170–20 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.9km s-min=9.8km az=11.7.
IDC Error ellipse: s-maj=31.7km s-min=15.1km az=110.0.
IDC II 11 09 44 43.9–1.0 19.24N 144.94E 0 4.2,4.0
¶17192068

IDC Error ellipse: s-maj=75.0km s-min=22.6km az=109.0.
ISC II 11 12 34 22.9–.82 19.52N–.08 145.6E–.20 147 3.6b 10 6-83
ISCJB II 11 12 34 21.4–.72 19.54N–.06 145.6E–.20 147 3.4b ¶17192078
IDC II 11 12 34 23.5–2.6 19.49N 145.58E 155–27 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.1km s-min=8.7km az=2.0.
IDC Error ellipse: s-maj=27.0km s-min=15.1km az=91.0.
ISC II 11 17 34 36.6–.80 18.82N–.10 145.6E–.20 550 3.2b 12 5-83
ISCJB II 11 17 34 35.4–.74 18.8N–.10 145.6E–.20 550 3.1b ¶17192084
IDC II 11 17 34 37.4–1.3 18.72N 145.63E 566–18 3.6,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=13.8km az=176.8.
IDC Error ellipse: s-maj=21.9km s-min=15.7km az=79.0.
IDC II 14 18 42 35.6–1.7 15.91N 145.89E 205–13 3.5,3.2
¶17192262

IDC Error ellipse: s-maj=37.0km s-min=15.5km az=91.0.
ISC II 15 11 04 54.0–.42 17.42N–.04 145.84E–.06 175–3 4.8b 247 1-147
BJI II 15 11 04 46.2 17.10N 146.58E 173 5.0b,4.5b ¶16025705
ISCJB II 15 11 04 53.2–.55 17.42N–.03 145.73E–.04 175–5 4.7b,4.5b
MOS II 15 11 04 53.7–.94 17.44N 145.58E 187 4.8b,4.5b
NEIC II 15 11 04 54.3–.61 17.42N 145.74E 173–6 4.9b,4.5b
IDC II 15 11 04 56.0–1.2 17.44N 145.63E 194–11 4.5,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=9.0.
MOS Error ellipse: s-maj=14.2km s-min=6.6km az=95.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=90.0.
IDC Error ellipse: s-maj=13.9km s-min=6.7km az=92.0.
ISC II 16 18 55 37.4–.73 18.3N–.10 145.1E–.20 470 3.9b 36 5-132
IDC II 16 18 55 29.6–.92 18.28N 145.22E 384–9 4.3,3.7 ¶17192380
ISCJB II 16 18 55 35.9–.63 18.31N–.08 145.2E–.10 470 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 13 48 41.0–1.1 14.0N–.10 145.5E–.20 100 3.6b 10 1-91
ISCJB II 17 13 48 39.3–.90 14.0N–.10 145.6E–.20 100 3.6b ¶17192423
IDC II 17 13 48 40.9–1.1 13.98N 145.44E 99–8 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.2km s-min=12.6km az=32.9.
IDC Error ellipse: s-maj=28.8km s-min=18.2km az=99.0.
ISC II 18 18 28 22.3–.92 18.32N–.06 145.40E–.08 382–9 4.2b 166 9-142
BJI II 18 18 28 19.8 18.13N 145.68E 395 4.7b,4.2b ¶16032951
ISCJB II 18 18 28 21.9–.94 18.35N–.04 145.40E–.05 391–10 4.2b,4.2b
MOS II 18 18 28 21.9–.91 18.33N 145.44E 395 4.4b,4.2b
NEIC II 18 18 28 22.1–1.0 18.33N 145.40E 376–11 4.4b,4.2b
IDC II 18 18 28 22.9–1.6 18.37N 145.40E 387–16 4.4,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=6.4km az=13.6.
MOS Error ellipse: s-maj=16.7km s-min=7.2km az=106.5.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.2km az=102.0.
IDC Error ellipse: s-maj=14.8km s-min=9.5km az=95.0.
ISC II 19 09 54 48.9–.38 18.29N–.04 146.56E–.07 64 4.6b 118 5-150
BJI II 19 09 54 40.8 17.83N 147.23E 50 5.2b,4.8s ¶16032957
MOS II 19 09 54 46.6–.84 18.28N 146.46E 58 4.9b,4.8s
ISCJB II 19 09 54 47.2–.25 18.27N–.03 146.51E–.06 64 4.5b,4.8s
NEIC II 19 09 54 48.1–.88 18.28N 146.55E 56–8 4.8b,4.8s
IDC II 19 09 54 48.7–1.5 18.28N 146.45E 63–12 4.2,4.1
ISC Event type se.
MOS Error ellipse: s-maj=16.0km s-min=7.2km az=96.2.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.5km az=0.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=3.9km az=87.0.
IDC Error ellipse: s-maj=17.0km s-min=8.1km az=95.0.
IDC II 19 21 21 06.6–.85 13.83N 145.18E 109–8 3.5,3.5
¶17192550

IDC Error ellipse: s-maj=39.6km s-min=26.3km az=110.0.
IDC II 20 05 59 04.3–3.5 19.60N 144.72E 122–21 4.0,3.5
¶17192570

IDC Error ellipse: s-maj=168.4km s-min=13.0km az=83.0.
ISC II 22 11 10 58.9–1.2 15.3N–.10 145.6E–.30 200 3.5b 12 2-69
ISCJB II 22 11 10 57.0–1.1 15.29N–.08 145.7E–.20 200 3.5b ¶17192700
IDC II 22 11 10 59.5–1.1 15.15N 145.53E 208–9 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.6km s-min=11.4km az=5.7.
IDC Error ellipse: s-maj=24.7km s-min=15.8km az=88.0.
IDC II 24 22 27 50.9–13 18.77N 145.29E 426–155 3.9,3.4
¶17192810

IDC Error ellipse: s-maj=37.8km s-min=19.6km az=58.0.
IDC II 25 00 54 45.0–1.2 13.21N 144.87E 48–14 3.5,3.4
¶17192812

IDC Error ellipse: s-maj=24.6km s-min=19.9km az=174.0.
ISC II 26 23 48 26.0–.88 14.0N–.10 145.3E–.20 125 3.6b 13 1-135
IDC II 26 23 48 27.2–.68 13.86N 145.08E 138–4 3.7,3.6 ¶17192925
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=16.4km az=92.0.
ISC III 01 05 18 20.6–.85 18.9N–.10 145.4E–.20 214 3.6b 15 18-132
ISCJB III 01 05 18 19.1–.70 18.87N–.10 145.5E–.20 214 3.5b ¶17193040
IDC III 01 05 18 26.1–5.2 18.88N 145.38E 268–51 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=13.3km az=177.7.
IDC Error ellipse: s-maj=30.2km s-min=11.8km az=89.0.
IDC III 01 19 15 22.8–1.0 19.00N 145.95E 0 3.8,3.6
¶17193092
IDC Error ellipse: s-maj=39.6km s-min=21.9km az=89.0.
ISC III 05 15 52 58.5–.73 19.2N–.10 145.4E–.10 214 3.8b 22 18-88
ISCJB III 05 15 52 57.0–.55 19.19N–.08 145.4E–.10 214 3.7b ¶17193290
IDC III 05 15 52 59.6–4.5 19.18N 145.45E 223–44 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=10.5km az=178.7.
IDC Error ellipse: s-maj=20.0km s-min=9.2km az=94.0.
ISC III 07 17 02 01.5–.62 13.25N–.10 145.66E–.09 45 4.3b,3.5s 58 1-145
BJI III 07 17 01 56.0 13.30N 145.80E 10 4.8b,4.5b ¶16409221
ISCJB III 07 17 02 00.0–.41 13.28N–.06 145.63E–.06 45 4.3b,3.5s
IDC III 07 17 02 01.8–1.7 13.31N 145.63E 46–14 4.2,4.1
NEIC III 07 17 02 02.2–1.4 13.32N 145.53E 48–12 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=8.7km az=175.1.
IDC Error ellipse: s-maj=19.2km s-min=14.0km az=104.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=7.9km az=105.0.
ISC III 14 08 09 31.1–.85 17.5N–.10 146.0E–.20 167 3.6b 8 4-84
ISCJB III 14 08 09 29.5–.76 17.5N–.10 146.0E–.20 167 3.6b ¶17195105
IDC III 14 08 09 34.9–1.9 17.48N 145.98E 205–18 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.6km s-min=16.7km az=12.0.
IDC Error ellipse: s-maj=25.0km s-min=14.6km az=96.0.
ISC III 16 01 40 43.9–.57 13.76N–.10 145.0E–.20 125 4.2b 32 0-148
IDC III 16 01 40 42.6–.48 13.79N 145.05E 110–4 4.2,4.1 ¶16424536
ISCJB III 16 01 40 42.4–.44 13.77N–.07 145.0E–.10 125 4.2b,4.1
NEIC III 16 01 40 43.5–.75 13.78N 145.04E 120–6 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=15.3km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=9.5km az=15.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=8.1km az=106.0.
IDC III 16 04 54 15.2–4.6 14.47N 145.00E 74–77 3.4,3.4
¶17196336
IDC Error ellipse: s-maj=111.6km s-min=47.9km az=178.0.
IDC III 16 16 13 52.7–1.1 13.69N 145.17E 0 3.9,3.7
¶17196488
IDC Error ellipse: s-maj=38.6km s-min=29.1km az=90.0.
ISC III 17 09 19 32.7–.61 15.61N–.09 145.5E–.10 300 4.0b 23 2-148
ISCJB III 17 09 19 31.5–.51 15.64N–.07 145.4E–.10 300 3.8b ¶17196665
IDC III 17 09 19 31.1–.69 15.71N 145.46E 278–6 4.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=9.3km az=8.7.
IDC Error ellipse: s-maj=14.1km s-min=9.8km az=96.0.
ISC III 19 10 31 31.3–.64 17.62N–.09 145.6E–.20 500 3.5b 18 4-148
ISCJB III 19 10 31 30.3–.57 17.67N–.08 145.6E–.20 500 3.5b ¶17197190
IDC III 19 10 31 31.4–1.1 17.59N 145.60E 502–12 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=10.2km az=178.1.
IDC Error ellipse: s-maj=18.2km s-min=11.2km az=72.0.
ISC III 19 15 07 18.4–1.1 18.78N–.08 145.9E–.30 109 3.7b 12 5-87
ISCJB III 19 15 07 16.9–.93 18.79N–.06 145.9E–.30 109 3.7b ¶17197264
IDC III 19 15 07 18.3–3.5 18.79N 145.91E 107–31 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.6km s-min=8.4km az=0.4.
IDC Error ellipse: s-maj=45.9km s-min=15.5km az=83.0.
ISC III 19 15 15 56.8–.81 16.5N–.10 145.6E–.20 350 3.5b 11 3-95
IDC III 19 15 15 58.9–.84 16.08N 145.64E 388–10 3.7,3.3 ¶17197265
ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=16.4km az=112.0.
ISC III 25 14 46 16.2–.53 13.88N–.08 145.3E–.10 100 4.4b 75 1-148
ISCJB III 25 14 46 14.5–.42 13.88N–.05 145.37E–.08 100 4.3b ¶16480847
IDC III 25 14 46 15.8–.65 13.89N 145.39E 94–5 4.4,4.3s
NEIC III 25 14 46 16.5–.89 13.86N 145.32E 104–8 4.5b,4.3s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=7.1km az=21.4.
IDC Error ellipse: s-maj=15.6km s-min=9.7km az=99.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.4km az=98.0.
ISC III 27 10 14 35.2–.98 18.17N–.10 146.6E–.20 66 4.0b 11 5-93
ISCJB III 27 10 14 33.8–.88 18.20N–.08 146.5E–.20 66 3.8b ¶17198772
IDC III 27 10 14 36.3–5.9 18.01N 146.46E 81–66 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.9km s-min=9.1km az=11.4.
IDC Error ellipse: s-maj=60.6km s-min=34.5km az=25.0.
ISC III 29 16 34 20.1–.48 18.95N–.06 145.33E–.08 300 4.6b 109 2-151
BJI III 29 16 34 14.1 18.71N 145.68E 280 4.6b,4.5b ¶16392147
NEIC III 29 16 34 18.3–.50 18.85N 145.36E 281–5 4.8b,4.5b
IDC III 29 16 34 19.3–1.7 18.89N 145.31E 291–16 4.7,4.1
ISCJB III 29 16 34 19.1–.26 18.80N–.05 145.29E–.04 300 4.5b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 31 09 18 55.7–3.4 15.39N 145.74E 97–42 4.1,3.9
¶17199277
IDC Error ellipse: s-maj=48.6km s-min=25.7km az=22.0.
ISC IV 02 19 58 04.8–1.1 14.1N–.20 145.8E–.20 100 3.5b 9 1-135
ISCJB IV 02 19 58 02.8–1.1 14.0N–.20 145.8E–.20 100 3.5b ¶17199571
IDC IV 02 19 58 06.3–1.3 13.98N 145.47E 113–10 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.9km s-min=13.3km az=137.6.
IDC Error ellipse: s-maj=36.3km s-min=24.0km az=98.0.
ISC IV 06 01 32 01.0–.88 19.0N–.10 145.3E–.20 214 3.6b 14 32-132
ISCJB IV 06 01 31 59.6–.71 19.0N–.10 145.3E–.20 214 3.5b ¶17199944
IDC IV 06 01 32 06.3–7.8 19.02N 145.27E 265–78 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.4km s-min=15.9km az=2.7.
IDC Error ellipse: s-maj=25.0km s-min=15.0km az=83.0.
IDC IV 07 03 53 50.6–1.1 18.97N 145.63E 0 4.1,3.8
¶17200077
IDC Error ellipse: s-maj=42.0km s-min=25.0km az=112.0.
ISC IV 07 17 51 21.7–.58 19.00N–.06 145.5E–.10 214 3.9b 33 5-148
ISCJB IV 07 17 51 20.2–.50 19.03N–.05 145.5E–.10 214 3.9b ¶17200142
IDC IV 07 17 51 22.0–1.5 19.01N 145.52E 217–14 4.4,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=6.2km az=174.4.
IDC Error ellipse: s-maj=15.1km s-min=7.5km az=78.0.
ISC IV 07 19 11 13.5–1.1 20.58N–.08 145.2E–.30 129 3.8b 12 7-77
ISCJB IV 07 19 11 11.8–.98 20.60N–.06 145.3E–.30 129 3.7b ¶17200153
IDC IV 07 19 11 12.4–2.6 20.51N 145.22E 121–23 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.3km s-min=6.7km az=171.2.
IDC Error ellipse: s-maj=44.5km s-min=12.3km az=82.0.
ISC IV 08 01 18 54.3–.00 13.7N–.20 144.9E–.30 144 3.4b 8 0-148
ISCJB IV 08 01 18 52.7–1.1 13.7N–.10 144.9E–.40 144 3.3b ¶17200183
IDC IV 08 01 18 53.8–.73 13.76N 144.85E 130–5 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.7km s-min=19.2km az=179.4.
IDC Error ellipse: s-maj=45.4km s-min=22.0km az=89.0.
IDC IV 09 04 09 57.1–2.2 14.35N 145.70E 92–19 3.4,3.4
¶17200308
IDC Error ellipse: s-maj=45.7km s-min=26.9km az=104.0.
IDC IV 11 11 22 27.6–2.8 16.35N 146.24E 108–25 3.5,3.4
¶17200597
IDC Error ellipse: s-maj=40.1km s-min=21.4km az=111.0.
ISC IV 12 21 07 56.8–.00 13.43N–.05 145.87E–.06 26–6 4.8b,4.2s 258 1-154
DJA IV 12 21 07 44.3–.80 14N–5.0 147E–11 10 5.5b,5.0 ¶16427689
IDC IV 12 21 07 52.6–.43 13.44N 145.87E 0 4.6,4.5
BJI IV 12 21 07 52.2 13.25N 146.09E 25 5.0b,4.7b
ISCJB IV 12 21 07 56.3–.20 13.43N–.03 145.78E–.04 33 4.8b,4.3s
MOS IV 12 21 07 57.6–.97 13.38N 145.78E 51 4.9b,4.1s
GCMT IV 12 21 07 59.4–.40 13.18N 145.95E 24–0 5.0W,4.1s
NEIC IV 12 21 07 59.4–1.1 13.40N 145.72E 45–10 5.0b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=10.0km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=29.1.
MOS Error ellipse: s-maj=11.1km s-min=6.2km az=109.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c34; s79,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.38±.27 $M_{\theta\theta}$-0.74±.14; $M_{\phi\phi}$-3.65±.18; $M_{r\theta}$0.61±.23; $M_{\theta\phi}$-0.46±.11; $M_{\phi r}$1.08±.22; Best double couple: NP1:ϕ_s14.00000°,δ53.00000°,λ96.00000°. NP2:ϕ_s184.00000°,δ37.00000°,λ82.00000°. Principal axes: T 4.5800,Plg81.0000°,Azm310.0000°; N -0.7020,Plg5.0000°,Azm190.0000°; P -3.8840,Plg8.0000°,Azm100.0000° $M_0$4.23200×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=111.0.
ISC IV 13 00 06 47.3–.57 20.74N–.08 144.7E–.10 129 4.1b 33 7-149
ISCJB IV 13 00 06 45.5–.47 20.75N–.06 144.8E–.10 129 4.0b ¶16587485
NEIC IV 13 00 06 45.9–1.4 20.75N 144.80E 118–13 4.5b
IDC IV 13 00 06 46.1–2.9 20.79N 144.83E 118–27 4.2,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=8.0km az=170.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=7.6km az=77.0.
IDC Error ellipse: s-maj=18.2km s-min=11.1km az=75.0.
ISC IV 13 02 24 33.4–.84 19.11N–.10 145.8E–.30 109 3.6b 9 6-83
ISCJB IV 13 02 24 31.7–.75 19.10N–.08 145.8E–.30 109 3.6b ¶17200841
IDC IV 13 02 24 37.1–2.8 18.92N 145.80E 148–27 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.7km s-min=9.7km az=10.8.
IDC Error ellipse: s-maj=34.0km s-min=16.1km az=106.0.
ISC IV 14 01 24 27.3–.85 18.5N–.10 145.2E–.30 450 3.4b 10 36-87
ISCJB IV 14 01 24 25.8–.69 18.6N–.10 145.3E–.20 450 3.4b ¶17200975
IDC IV 14 01 24 28.8–6.8 18.55N 145.32E 472–86 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.6km s-min=13.8km az=4.8.
IDC Error ellipse: s-maj=28.6km s-min=17.8km az=101.0.
IDC IV 16 11 48 32.1–1.1 17.60N 146.27E 0 4.0,3.8
¶17201217
IDC Error ellipse: s-maj=77.8km s-min=21.0km az=99.0.
ISC IV 18 01 03 54.7–1.4 15.0N–.20 145.9E–.30 96 3.9b 9 2-81
ISCJB IV 18 01 03 53.3–1.2 15.1N–.10 145.9E–.20 96 3.9b ¶17201375
IDC IV 18 01 03 57.1–2.4 14.53N 145.81E 143–60 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.2km s-min=10.3km az=21.9.
IDC Error ellipse: s-maj=122.7km s-min=29.1km az=1.0.
IDC IV 18 06 49 13.2–1.5 19.03N 145.70E 0 3.7,3.4b
¶17201399
IDC Error ellipse: s-maj=58.1km s-min=32.9km az=96.0.
ISC IV 18 22 00 50.4–1.1 18.6N–.20 146.3E–.30 64 3.5b 8 19-87
IDC IV 18 22 00 42.0–1.1 18.62N 146.28E 0 3.9,3.7 ¶17201449
ISCJB IV 18 22 00 48.8–.99 18.6N–.20 146.3E–.30 64 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 19 17 46 11.1–.56 13.74N–.04 145.29E–.06 81–4 5.1b 622 0-152
BJI IV 19 17 46 04.6 13.28N 145.84E 85 5.0b,4.9b ¶16447766
MOS IV 19 17 46 09.9–1.0 13.82N 145.10E 82 5.1b,4.9b
IDC IV 19 17 46 10.3–.68 13.77N 145.27E 72–5 4.8,4.6
ISCJB IV 19 17 46 10.1–.52 13.77N–.03 145.16E–.02 82–4 4.9b,4.6
GCMT IV 19 17 46 11.2–.40 13.48N 145.29E 102–4 4.9W,4.6
NEIC IV 19 17 46 11.2–.58 13.75N 145.20E 81–5 5.2b,4.6
DJA IV 19 17 46 23.0–1.1 13N–4.0 146E–8.0 259–17 5.6b,5.2
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c26; s65,c91;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.29±.13 $M_{\theta\theta}$-1.31±.12; $M_{\phi\phi}$0.02±.15; $M_{r\theta}$0.65±.08; $M_{\theta\phi}$2.23±.12; $M_{\phi r}$1.19±.10; Best double couple: NP1:ϕ_s344.00000°,δ65.00000°,λ147.00000°. NP2:ϕ_s89.00000°,δ60.00000°,λ30.00000°. Principal axes: T 2.8450,Plg41.0000°,Azm305.0000°; N 0.1380,Plg49.0000°,Azm131.0000°; P -2.9810,Plg3.0000°,Azm37.0000° $M_0$2.91300×10^{16}
NEIC Event type fe. Felt [II] at Andersen AFB and Dededo. Also felt at Apra Harbor, Barrigada, Hagatna, Mangilao, Santa Rita, Tamuning and Yigo.
ISC IV 19 21 31 12.0–.95 19.4N–.20 145.5E–.20 147 3.6b 9 8-86
ISCJB IV 19 21 31 10.5–.79 19.4N–.10 145.5E–.20 147 3.5b ¶17201544
IDC IV 19 21 31 17.6–11 19.35N 145.52E 200–108 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.3km s-min=17.2km az=5.4.
IDC Error ellipse: s-maj=29.4km s-min=15.8km az=86.0.
ISC IV 21 06 40 15.6–.60 18.99N–.08 145.6E–.20 214 4.0b 19 5-148
ISCJB IV 21 06 40 14.2–.50 19.02N–.06 145.5E–.20 214 3.7b ¶17201679
IDC IV 21 06 40 14.8–2.2 19.02N 145.59E 206–21 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.3km s-min=8.0km az=5.3.
IDC Error ellipse: s-maj=19.8km s-min=10.9km az=95.0.
IDC IV 23 16 34 40.3–2.2 17.75N 145.70E 207–20 3.6,3.4
¶17201891
IDC Error ellipse: s-maj=27.2km s-min=17.8km az=96.0.
IDC IV 24 07 45 30.4–.70 19.32N 144.58E 0 4.0,3.7
¶17201941
IDC Error ellipse: s-maj=29.8km s-min=16.9km az=95.0.
IDC IV 24 07 46 28.4–2.1 19.38N 144.96E 0 3.7,3.4b
¶17201944
IDC Error ellipse: s-maj=364.5km s-min=22.9km az=110.0.
ISC IV 24 10 39 23.1–.61 18.83N–.07 145.4E–.10 214 3.8b 31 5-148
ISCJB IV 24 10 39 21.7–.43 18.84N–.05 145.3E–.10 214 3.7b ¶17201954
IDC IV 24 10 39 25.7–2.9 18.83N 145.35E 240–27 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=6.9km az=175.3.
IDC Error ellipse: s-maj=16.7km s-min=11.0km az=99.0.
IDC IV 26 05 10 25.4–1.4 14.08N 145.11E 51–14 3.5,3.4
¶17202109
IDC Error ellipse: s-maj=59.1km s-min=22.2km az=112.0.
ISC IV 26 11 13 54.1–1.2 20.3N–.10 145.1E–.30 150 3.6b 10 7-85
IDC IV 26 11 13 51.6–3.5 20.22N 145.24E 128–30 4.1s,4.1 ¶17202126
ISCJB IV 26 11 13 52.6–1.1 20.26N–.08 145.1E–.30 150 3.5b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 00 29 12.5–.72 18.5N–.10 145.4E–.10 500 3.6b 34 9-148
ISCJB IV 30 00 29 11.7–.56 18.48N–.08 145.4E–.10 500 3.7b ¶17202423
IDC IV 30 00 29 12.0–1.8 18.47N 145.42E 494–20 4.2,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=10.8km az=1.1.
IDC Error ellipse: s-maj=14.8km s-min=10.3km az=96.0.
IDC V 02 02 01 09.0–1.2 18.03N 145.43E 0 4.1,3.8
¶17202573
IDC Error ellipse: s-maj=66.5km s-min=19.8km az=108.0.
ISC V 05 03 38 22.6–1.5 14.0N–.20 144.6E–.40 144 3.7b 6 0-87
IDC V 05 03 38 19.4–1.6 14.00N 144.67E 110–7 4.2s,4.2 ¶17202811
ISCJB V 05 03 38 21.4–1.3 14.0N–.20 144.6E–.40 144 3.7b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC V 06 16 52 12.6–.85 20.3N–.10 145.4E–.20 81 3.8b 11 7-148
ISCJB V 06 16 52 11.1–.78 20.28N–.08 145.2E–.20 81 3.8b ¶17202938
IDC V 06 16 52 12.8–3.9 20.29N 145.36E 83–35 3.9,3.8

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.7km s-min=9.6km az=166.7.
IDC Error ellipse: s-maj=34.5km s-min=15.2km az=92.0.
ISC V 07 10 26 22.0–.54 18.11N–.06 146.7E–.10 66 4.3b 49 5-134
ISCJB V 07 10 26 20.4–.35 18.14N–.04 146.62E–.08 66 4.2b **¶16631221**
IDC V 07 10 26 21.3–2.8 18.09N 146.79E 61–25 4.3,4.3L
NEIC V 07 10 26 22.9–.98 18.06N 146.72E 76–9 4.3b,4.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.4km az=178.2.
IDC Error ellipse: s-maj=21.2km s-min=10.7km az=92.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=5.6km az=91.0.
ISC V 08 07 09 46.4–.69 13.6N–.10 145.86E–.10 45 4.0b 25 1-147
ISCJB V 08 07 09 44.1–.61 13.63N–.08 145.96E–.08 45 4.0b,4.0s **¶17203031**
IDC V 08 07 09 49.6–.75 13.60N 145.54E 78–5 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.3km az=156.5.
IDC Error ellipse: s-maj=16.1km s-min=12.8km az=133.0.
ISC V 09 03 21 48.0–.45 19.03N–.04 145.5E–.10 214 4.2b 85 5-148
ISCJB V 09 03 21 46.6–.32 19.00N–.03 145.51E–.08 214 4.1b **¶16501812**
NEIC V 09 03 21 46.3–.92 18.98N 145.62E 196–9 4.4b
IDC V 09 03 21 48.3–.55 19.01N 145.55E 216–5 4.4,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=4.1km az=172.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=4.5km az=90.0.
IDC Error ellipse: s-maj=14.9km s-min=6.5km az=91.0.
IDC V 10 04 43 57.7–1.0 19.06N 145.48E 0 4.1,3.9
¶17203173
IDC Error ellipse: s-maj=32.2km s-min=26.2km az=116.0.
ISC V 10 15 59 40.6–.93 19.6N–.10 144.6E–.30 464 3.4b 14 23-86
IDC V 10 15 59 36.4–5.0 19.63N 144.75E 415–54 4.0,3.4 **¶17203302**
ISCJB V 10 15 59 39.2–.85 19.6N–.10 144.6E–.20 464 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC V 14 16 32 28.8–1.2 20.90N 145.03E 0 3.9,3.7
¶17203623
IDC Error ellipse: s-maj=53.2km s-min=22.2km az=88.0.
IDC V 17 09 25 14.7–9.4 19.94N 144.22E 415–106 3.6,3.0
¶17203813
IDC Error ellipse: s-maj=53.1km s-min=23.4km az=76.0.
ISC V 18 02 43 20.0–.33 13.93N–.04 144.81E–.04 154–2 4.8b 506 0-156
MOS V 18 02 43 19.4–1.2 14.00N 144.73E 158 4.9b **¶16525128**
ISCJB V 18 02 43 19.4–.47 13.92N–.03 144.69E–.03 156–4 4.8b
NEIC V 18 02 43 21.0–.60 13.93N 144.74E 159–5 4.8b
IDC V 18 02 43 20.0–.59 13.97N 144.89E 154–4 4.7,4.4
GCMT V 18 02 43 21.0–.20 13.77N 144.76E 156–1 5.3W,4.4
DJA V 18 02 43 22.1–.40 14N–4.0 145E–6.0 140–6 5.5b,5.1b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Mangilao and Santa Rita; [III] at Barrigada, Dededo and Hagatna Heights; [II] at Andersen AFB, Apra Harbor, Tamuning and Yigo. Also felt at Agat, Hagatna, Inarajan and Talofofo.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c90; s96,c148;Duration: 1ŧ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$0.06±.02; $M_{r\theta}$-0.01±.02; $M_{\theta\phi}$-0.93±.02; $M_{\phi r}$-0.41±.01; Best double couple: NP1:ϕ_s359.00000°,δ86.00000°,λ-24.00000°. NP2:ϕ_s91.00000°,δ66.00000°,λ-176.00000°. Principal axes: T 1.0600,Plg14.0000°,Azm47.0000°; N -0.0800,Plg65.0000°,Azm171.0000°; P -0.9790,Plg20.0000°,Azm312.0000° $M_0$1.01900×10^{17}
IDC V 19 19 30 31.3–.93 13.77N 145.17E 130–5 3.7,3.5
¶17203989
IDC Error ellipse: s-maj=35.5km s-min=15.3km az=93.0.
IDC V 21 13 23 14.1–4.4 18.64N 146.32E 90–40 3.8,3.7
¶17204138
IDC Error ellipse: s-maj=44.2km s-min=18.7km az=79.0.
ISC V 27 12 53 22.3–1.1 13.7N–.20 144.7E–.30 129 3.6b 8 0-64
ISCJB V 27 12 53 20.7–1.1 13.7N–.20 144.6E–.20 129 3.6b **¶17204570**
IDC V 27 12 53 21.7–1.1 13.73N 144.64E 119–10 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.1km s-min=23.8km az=161.7.
IDC Error ellipse: s-maj=52.6km s-min=25.2km az=73.0.
IDC V 29 05 28 29.9–1.2 18.49N 146.61E 0 3.9,3.6b
¶17204674
IDC Error ellipse: s-maj=70.2km s-min=26.4km az=105.0.
ISC V 30 18 33 45.0–.82 16.6N–.20 146.6E–.30 35 3.7b 10 3-89
ISCJB V 30 18 33 43.0–.73 16.7N–.10 146.6E–.20 33 3.7b,2.6s **¶17204777**
IDC V 30 18 33 48.2–3.9 16.48N 146.57E 72–41 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.3km s-min=9.4km az=29.0.
IDC Error ellipse: s-maj=41.4km s-min=26.5km az=128.0.
IDC V 31 11 04 14.7–.90 19.33N 145.56E 0 3.9,3.7
¶17204827
IDC Error ellipse: s-maj=44.6km s-min=19.9km az=104.0.
IDC VI 01 04 05 56.7–1.6 18.20N 145.67E 0 3.8,3.6
¶17204860
IDC Error ellipse: s-maj=140.9km s-min=27.6km az=117.0.
IDC VI 01 09 26 24.6–.58 14.13N 144.77E 133–4 3.7,3.5
¶17204879
IDC Error ellipse: s-maj=28.1km s-min=13.3km az=86.0.
ISC VI 01 11 13 00.2–.98 18.4N–.20 145.5E–.20 400 3.2b 9 40-148
ISCJB VI 01 11 12 58.5–.91 18.4N–.10 145.6E–.20 400 3.1b **¶17204884**
IDC VI 01 11 13 00.8–10 18.36N 145.62E 412–117 3.7,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.0km s-min=16.6km az=10.3.
IDC Error ellipse: s-maj=33.0km s-min=17.2km az=74.0.
IDC VI 02 16 26 32.2–1.3 13.19N 145.53E 0 3.6,3.3
¶17205010
IDC Error ellipse: s-maj=29.9km s-min=17.7km az=54.0.
ISC VI 03 17 44 46.1–1.1 19.0N–.10 145.6E–.40 214 3.7b 7 5-83
ISCJB VI 03 17 44 44.8–1.0 19.09N–.09 145.4E–.40 214 3.6b **¶17205111**
IDC VI 03 17 44 46.2–2.4 19.03N 145.47E 214–22 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=50.1km s-min=11.8km az=4.8.
IDC Error ellipse: s-maj=50.3km s-min=16.8km az=97.0.
ISC VI 05 00 29 49.3–.76 19.00N–.07 145.6E–.20 214 3.6b 13 5-87
ISCJB VI 05 00 29 47.7–.68 19.00N–.06 145.6E–.20 214 3.5b **¶17205263**
IDC VI 05 00 29 50.1–1.7 18.94N 145.54E 224–17 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.7km s-min=8.2km az=177.0.
IDC Error ellipse: s-maj=25.4km s-min=10.2km az=82.0.
IDC VI 06 16 17 29.2–3.4 18.94N 145.58E 223–32 4.0,3.6
¶17205417
IDC Error ellipse: s-maj=81.2km s-min=19.3km az=105.0.
ISC VI 07 11 40 35.1–.58 18.28N–.06 146.6E–.10 66 4.4b 37 5-150
ISCJB VI 07 11 40 33.4–.55 18.29N–.05 146.6E–.10 66 4.3b **¶16856581**
NEIC VI 07 11 40 36.8–1.4 18.21N 146.51E 84–13 4.4b
IDC VI 07 11 40 36.5–3.0 18.25N 146.56E 80–28 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=6.5km az=5.1.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=7.0km az=85.0.
IDC Error ellipse: s-maj=24.8km s-min=11.6km az=83.0.
ISC VI 07 12 01 03.7–.77 13.0N–.10 144.6E–.20 54 3.9b,3.0s 18 1-148
ISCJB VI 07 12 01 02.2–.61 13.01N–.09 144.5E–.10 54 3.9b,3.0s **¶17205481**
IDC VI 07 12 01 03.9–.86 13.08N 144.66E 56–7 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.0km s-min=9.3km az=29.7.
IDC Error ellipse: s-maj=27.0km s-min=13.3km az=102.0.
ISC VI 08 12 02 36.5–.83 14.1N–.10 145.0E–.30 100 3.5b 9 1-86
IDC VI 08 12 02 34.6–.96 14.22N 145.07E 80–7 3.7,3.7 **¶17205555**
ISCJB VI 08 12 02 35.1–.76 14.2N–.10 144.9E–.30 100 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 09 22 02 54.4–1.6 14.7N–.20 144.5E–.50 35 3.7b 7 1-61
IDC VI 09 22 02 50.2–1.3 14.65N 144.22E 0 3.8,3.7b **¶17205665**
ISCJB VI 09 22 02 52.8–1.0 14.7N–.20 144.3E–.40 33 3.7b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 10 01 13 30.5–.45 14.55N–.05 146.78E–.06 33 4.6b,3.8s 156 2-153
IDC VI 10 01 13 25.1–.56 14.60N 146.96E 0 4.5,4.5L **¶16682674**
ISCJB VI 10 01 13 29.0–.29 14.55N–.04 146.75E–.05 33 4.6b,3.9s
MOS VI 10 01 13 29.7–1.1 14.61N 146.78E 41 4.9b,3.9s
BJI VI 10 01 13 29.6 14.48N 147.24E 57 4.9b,4.9s
NEIC VI 10 01 13 32.8–.95 14.50N 146.73E 53–8 4.6b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=12.9km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.7km az=43.4.
MOS Error ellipse: s-maj=11.6km s-min=6.5km az=106.9.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.4km az=109.0.
IDC VI 10 03 34 29.7–1.1 16.40N 145.71E 428–14 3.7,3.2
¶17205681
IDC Error ellipse: s-maj=32.0km s-min=22.4km az=104.0.
ISC VI 11 05 05 48.6–.86 13.2N–.10 145.6E–.10 43 4.2b,3.4s 44 1-147
IDC VI 11 05 05 42.4–.65 13.23N 145.66E 0 4.3,4.2b **¶16682675**
ISCJB VI 11 05 05 47.0–.48 13.16N–.07 145.47E–.10 43 4.3b,3.4s
NEIC VI 11 05 05 48.6–1.9 13.18N 145.46E 40–16 4.6b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.0km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=10.1km az=0.2.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=9.5km az=97.0.
ISC VI 11 10 17 15.8–.93 18.30N–.09 145.6E–.30 150 3.8b 10 5-148
ISCJB VI 11 10 17 14.4–.88 18.33N–.07 145.5E–.30 150 3.6b **¶17205771**
IDC VI 11 10 17 16.8–2.2 18.21N 145.75E 166–20 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=46.4km s-min=9.2km az=4.3.
IDC Error ellipse: s-maj=42.2km s-min=13.7km az=95.0.
IDC VI 11 18 10 06.9–6.8 18.78N 146.01E 206–66 3.4,3.1
¶17205788
IDC Error ellipse: s-maj=37.6km s-min=14.8km az=90.0.
ISC VI 17 11 32 24.9–.82 13.2N–.10 144.6E–.20 54 3.9b 14 1-148
ISCJB VI 17 11 32 22.8–.80 13.08N–.10 144.5E–.20 54 3.8b,3.3s **¶17206384**
IDC VI 17 11 32 24.2–1.1 13.16N 144.63E 49–11 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=10.7km az=27.2.
IDC Error ellipse: s-maj=30.3km s-min=15.6km az=95.0.
IDC VI 19 18 31 39.5–.94 18.91N 145.72E 0 3.9,3.6
¶17206538
IDC Error ellipse: s-maj=48.8km s-min=19.3km az=107.0.
IDC VI 26 06 27 55.8–2.8 18.48N 145.38E 229–24 4.0,3.5
¶17206963
IDC Error ellipse: s-maj=45.2km s-min=18.3km az=78.0.
IDC VI 26 08 59 47.6–2.7 13.14N 144.23E 155–20 3.6,3.5
¶17206970
IDC Error ellipse: s-maj=168.9km s-min=17.1km az=111.0.
ISC VI 26 09 19 47.5–.24 18.93N–.03 146.28E–.03 97–1 5.6b 1262 2-157
BJI VI 26 09 19 43.7 18.75N 146.65E 99 5.2b,5.1b **¶16682703**
ISCJB VI 26 09 19 45.8–.53 18.90N–.02 146.29E–.02 92–4 5.5b,5.1b
MOS VI 26 09 19 46.5–.89 18.91N 146.19E 100 5.6b,4.6s
IDC VI 26 09 19 47.6–.46 18.86N 146.25E 98–3 5.4,5.1
GCMT VI 26 09 19 48.1–.10 18.91N 146.49E 77–1 5.5W,5.1
NEIC VI 26 09 19 48.1–.45 18.86N 146.28E 99–4 5.6b,5.5W
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.7km az=174.1.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=101.9.
IDC Error ellipse: s-maj=11.8km s-min=6.7km az=91.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c221; s133,c295;Duration: 1ŧ4 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$1.99±.03; $M_{\phi\phi}$-0.91±.03; $M_{r\theta}$-1.60±.02; $M_{\theta\phi}$0.26±.03; $M_{\phi r}$1.09±.02; Best double couple: NP1: ϕ_s117.00000°,δ75.00000°,λ-59.00000°. NP2:ϕ_s230.00000°,δ34.00000°,λ-153.00000°. Principal axes: T 2.6830,Plg24.0000°,Azm184.0000°; N -0.1640,Plg30.0000°,Azm288.0000°; P -2.5210,Plg50.0000°,Azm62.0000° $M_0$2.60200×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.6km s-min=2.3km az=110.0. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49 $M_{\theta\theta}$1.92 $M_{\phi\phi}$-0.43 $M_{r\theta}$-1.16 $M_{\theta\phi}$0.05 $M_{\phi r}$1.04 Best double couple: NP1:ϕ_s243.00000°,δ34.00000°,λ-137.00000°. NP2:ϕ_s116.00000°,δ68.00000°,λ-64.00000°. Principal axes: T 2.3000,Plg18.0000°,Azm186.0000°; N 0.0700,Plg24.0000°,Azm285.0000°; P -2.3700,Plg59.0000°,Azm63.0000° $M_0$2.30000×10^{17}
ISC VI 26 09 30 02.3–.36 18.95N–.04 146.28E–.08 83 4.7b 137 2-158
ISCJB VI 26 09 30 00.9–.18 18.92N–.03 146.25E–.05 83 4.6b **¶16725726**
IDC VI 26 09 30 02.3–.83 18.84N 146.51E 90–7 4.3,4.1
BJI VI 26 09 30 03.0 18.90N 146.20E 100 5.0b,4.6b
NEIC VI 26 09 30 04.0–.48 18.88N 146.23E 99–4 4.7b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.0km az=12.4.
IDC Error ellipse: s-maj=21.1km s-min=9.0km az=95.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.4km az=101.0.
IDC VI 27 14 43 19.9–2.4 18.21N 146.03E 158–22 3.9,3.6
¶17207082
IDC Error ellipse: s-maj=30.3km s-min=12.1km az=83.0.
IDC VI 29 09 33 57.0–.91 13.80N 145.06E 116–5 3.4,3.4
¶17207183
IDC Error ellipse: s-maj=47.1km s-min=20.5km az=103.0.
ISC VI 29 21 03 52.4–1.1 13.7N–.20 144.4E–.20 125 3.9b 8 1-149
ISCJB VI 29 21 03 51.3–1.1 13.7N–.20 144.2E–.10 125 4.0b **¶17207218**
IDC VI 29 21 03 52.4–.80 13.73N 144.61E 132–9 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.2km s-min=17.8km az=159.9.
IDC Error ellipse: s-maj=45.0km s-min=20.8km az=88.0.

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KRSC I 14 02 41 53.1–1.4 52.11N 157.89E 172–10 3.6L
¶17190127
KRSC Event type se.
KRSC I 14 22 41 21.5–.97 55.41N 160.99E 165–9 3.6L
¶17190219
KRSC Event type se.
ISC I 18 00 37 03.5–.62 52.70N–.06 156.56E–.06 292–5 3.3b 87 0-79
ISCJB I 18 00 37 02.9–.37 52.72N–.06 156.4E–.10 293–4 3.3b **¶16151710**
MOS I 18 00 37 02.8–1.1 52.76N 156.31E 295 3.9b
KRSC I 18 00 37 02.4–1.2 52.67N 156.51E 294–10 4.3L
IDC I 18 00 37 03.6–.47 52.85N 156.13E 284–5 3.9,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=7.1km az=37.1.
MOS Error ellipse: s-maj=17.1km s-min=8.2km az=64.4.
KRSC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=14.2km az=122.0.
ISC I 18 17 52 11.0–.95 58.71N–.06 157.77E–.03 10 24 1-6
ISCJB I 18 17 52 09.3–.64 58.75N–.05 157.63E–.08 10 **¶16151779**
MOS I 18 17 52 09.0–.43 58.84N 157.20E 38 4.2b
KRSC I 18 17 52 11.2–1.2 58.69N 157.79E 62–14 4.1L
NERS I 18 17 52 13.5 58.50N 157.10E 1 4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.3km az=39.2.
MOS Error ellipse: s-maj=42.7km s-min=19.6km az=108.1.
KRSC Event type se.
NERS Event type se.
KRSC I 27 06 46 24.7–.85 53.17N 157.31E 279–6 3.9L
¶17191083
KRSC Event type se.
KRSC II 02 10 53 06.5–.98 53.14N 157.35E 300–8 4.0L

¶17191539

KRSC Event type se.
KRSC II 03 08 22 24.8–1.2 53.47N 157.52E 296–11 3.7L

¶17191584

KRSC Event type se.
KRSC II 06 20 52 28.3–2.0 58.65N 157.35E 40–15 3.7L

¶17191828

KRSC Event type se.
KRSC II 11 17 06 53.1–1.3 58.90N 164.25E 7–17 3.6L

¶16022710

KRSC Event type se.
ISC III 20 22 44 41.4–.87 55.06N–.02 160.18E–.03 9–6 3.7b 87 0-78
MOS III 20 22 44 41.2–.55 55.08N 160.24E 9 4.4b ¶16341506
KRSC III 20 22 44 41.1–.49 55.05N 160.32E 6–4 4.1L
ISCJB III 20 22 44 41.4–.62 55.05N–.02 160.32E–.06 4–4 3.6b
IDC III 20 22 44 48.9–2.8 54.76N 159.98E 82–29 3.7,3.6
ISC Event type se.
MOS Error ellipse: s-maj=19.1km s-min=4.9km az=81.2.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=2.8km az=16.8.
IDC Error ellipse: s-maj=28.8km s-min=20.0km az=160.0.
KRSC III 21 12 00 10.5–1.6 52.91N 157.08E 255–15 4.0L

¶16342627

KRSC Event type se.
KRSC III 21 18 17 23.0–.48 55.06N 160.21E 4–3 3.9L

¶16342628

KRSC Event type se.
KRSC III 23 22 20 21.6–1.2 59.54N 164.17E 0–4 3.8L

¶17198263

KRSC Event type se.
KRSC III 23 22 52 24.1–.38 59.54N 164.15E 0–1 4.0L

¶17198264

KRSC Event type se.
KRSC III 24 03 59 51.4–.71 59.54N 164.19E 6–5 4.3L

¶17198421

KRSC Event type se.
KRSC III 24 11 28 21.7–.64 59.53N 164.13E 9–3 4.3L

¶17198422

KRSC Event type se.
KRSC III 24 11 36 53.4–.45 59.52N 164.15E 8–4 4.4L

¶17198423

KRSC Event type se.
KRSC III 24 12 04 37.5–.57 59.54N 164.11E 8–3 3.8L

¶16363763

KRSC Event type se.
KRSC III 25 08 26 08.9–2.1 59.62N 164.02E 0–13 4.3L

¶16363916

KRSC Event type se.
KRSC III 30 16 45 58.4–1.1 52.89N 157.35E 222–8 3.7L

¶16399875

KRSC Event type se.
ISC IV 03 14 47 58.8–3.4 54.76N–.08 158.6E–.10 303–24 43 1-4
MOS IV 03 14 47 50.3–.32 54.83N 158.29E 384 4.3b ¶16406028
KRSC IV 03 14 47 57.7–1.9 54.81N 158.42E 301–20 4.1L
ISCJB IV 03 14 47 59.8–1.7 54.79N–.08 158.5E–.20 293–17 4.1L
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC IV 06 22 11 10.9–3.1 53.55N 156.87E 353–30 4.2L
MOS IV 06 22 11 04.4–1.0 53.25N 156.44E 408 4.2b ¶16413287
KRSC Event type se.
MOS Error ellipse: s-maj=56.9km s-min=14.6km az=60.9.
ISC IV 12 11 24 06.9–.77 56.10N–.05 160.97E–.05 151–5 3.4b 84 0-83
KRSC IV 12 11 24 05.0–.46 56.09N 161.00E 156–3 3.8L ¶16424692
ISCJB IV 12 11 24 05.8–.40 56.10N–.05 161.00E–.09 154–3 3.3b
MOS IV 12 11 24 05.6–.60 56.15N 160.90E 154 4.1b
IDC IV 12 11 24 06.9–2.9 56.17N 160.63E 157–27 3.4,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=5.4km az=40.9.
MOS Error ellipse: s-maj=25.1km s-min=6.7km az=73.0.
IDC Error ellipse: s-maj=101.6km s-min=20.1km az=131.0.
KRSC IV 12 17 43 56.8–1.2 53.37N 156.94E 309–13 3.6L

¶16424695

KRSC Event type se.
KRSC IV 16 16 04 11.4–1.8 54.71N 158.24E 305–21 3.8L

¶16442665

KRSC Event type se.
ISC IV 20 23 04 46.5–1.2 58.73N–.05 162.9E–.10 35 3.3b 16 1-47
IDC IV 20 23 04 32.2–11 56.13N 164.45E 0 3.6,3.3b ¶17201648
KRSC IV 20 23 04 42.8–.72 58.61N 163.59E 6–3 4.3L,3.3b
MOS IV 20 23 04 44.7–1.6 58.63N 163.58E 21 4.4b,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=372.0km s-min=30.7km az=170.0.
KRSC Event type se.
MOS Error ellipse: s-maj=38.8km s-min=17.8km az=87.0.
KRSC IV 20 23 53 13.3–1.2 58.62N 163.70E 6–9 4.1L

¶17201654

KRSC Event type se.
KRSC IV 25 08 45 45.0–1.6 54.58N 158.70E 313–15 3.8L

¶17202031

KRSC Event type se.
ISC IV 25 16 26 08.8–.75 59.77N–.03 163.75E–.04 19–3 4.7b,3.8s 656 1-146
KRSC IV 25 16 26 05.7–.76 59.55N 164.24E 7–3 5.0L,3.8s ¶16456811
IDC IV 25 16 26 05.7–.47 59.78N 163.82E 0 4.5,4.4
MOS IV 25 16 26 06.1–.87 59.87N 163.73E 12 4.8b,4.4
BJI IV 25 16 26 07.2 59.80N 163.70E 29 4.9b,4.7b
ISCJB IV 25 16 26 07.0–.69 59.83N–.03 163.76E–.03 20–5 4.7b,4.0s
NEIC IV 25 16 26 09.6–1.2 59.83N 163.70E 25–8 4.7b,4.0s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=8.9km az=166.0.
MOS Error ellipse: s-maj=7.9km s-min=4.3km az=86.3.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.3km az=163.4.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.1km az=172.0.
IDC IV 25 16 26 56.6–1.3 59.78N 163.70E 0 4.3,4.1b

¶17202061

IDC Error ellipse: s-maj=46.2km s-min=33.8km az=2.0.
ISC IV 25 18 08 31.6–.51 59.79N–.05 163.84E–.05 10 4.0b,3.2s 63 1-87
KRSC IV 25 18 08 28.9–.80 59.72N 164.00E 9–3 4.7L,3.2s ¶16596746
ISCJB IV 25 18 08 30.1–.29 59.82N–.03 163.76E–.07 10 3.8b,3.2s
IDC IV 25 18 08 30.1–.76 59.72N 163.88E 0 4.1L,3.9
MOS IV 25 18 08 30.2–.69 59.82N 163.79E 12 4.7b,3.9
NEIC IV 25 18 08 31.7–.44 59.77N 163.82E 10 4.0b,3.9
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.4km az=35.0.
IDC Error ellipse: s-maj=21.4km s-min=10.3km az=179.0.
MOS Error ellipse: s-maj=17.7km s-min=7.0km az=82.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=5.7km az=170.0.
KRSC IV 25 19 14 30.7–.61 59.60N 164.08E 4–4 3.5L

¶16463246

KRSC Event type se.
KRSC V 10 15 57 09.7–.37 59.83N 163.74E 24–11 3.9L

¶16504099

KRSC Event type se.
ISC V 23 09 48 59.4–.86 54.53N–.07 158.40E–.09 281–7 3.4b 36 1-71
KRSC V 23 09 48 56.8–1.6 54.46N 158.49E 300–12 3.8L ¶16536847
ISCJB V 23 09 48 58.6–.55 54.52N–.06 158.4E–.10 288–4 3.2b
IDC V 23 09 48 59.1–1.3 54.61N 158.02E 282–23 3.7,3.3
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=6.6km az=31.1.
IDC Error ellipse: s-maj=47.8km s-min=23.6km az=49.0.
KRSC V 28 05 44 42.2–.39 55.19N 160.42E 0–1 3.9L

¶16551276

KRSC Event type se.
KRSC V 28 06 30 46.1–1.4 55.02N 159.00E 272–13 3.7L

¶16551284

KRSC Event type se.
KRSC V 31 01 21 32.4–1.1 53.03N 157.18E 313–10 3.8L

¶16552781

KRSC Event type se.
KRSC VI 11 08 35 19.6–1.2 53.49N 157.39E 290–10 3.6L

¶603071560

KRSC Event type se.

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KRSC I 02 07 49 49.3–.79 55.68N 162.35E 41–19 3.6L

¶17189195

KRSC Event type se.
KRSC I 03 00 18 43.9–.93 55.43N 162.59E 23–8 3.5L

¶17189270

KRSC Event type se.
KRSC I 04 22 16 49.4–1.2 51.03N 158.39E 53–21 3.6L

¶17189459

KRSC Event type se.
KRSC I 07 23 11 48.6–.57 53.63N 160.70E 34–13 3.7L

¶17189663

KRSC Event type se.
KRSC I 08 11 18 16.4–.75 51.06N 158.12E 40–16 3.6L

¶17189693

KRSC Event type se.
KRSC I 10 17 38 08.4–1.2 55.07N 162.40E 82–31 3.8L

¶17189871

KRSC Event type se.
ISC I 11 13 25 39.9–1.1 55.79N–.03 162.18E–.05 44–11 3.4b 64 1-84
IDC I 11 13 25 33.8–.80 55.86N 162.24E 0 3.9,3.6 ¶16151070
KRSC I 11 13 25 37.2–.63 55.76N 162.21E 60–13 4.1L,3.6
ISCJB I 11 13 25 38.9–.48 55.77N–.03 162.20E–.08 53–6 3.6s,3.5b
MOS I 11 13 25 38.9–.88 55.85N 162.17E 52 4.1b,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=16.9km az=142.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=3.9km az=23.1.
MOS Error ellipse: s-maj=19.1km s-min=8.3km az=68.4.
KRSC I 11 23 24 40.3–1.0 55.39N 161.21E 147–10 3.9L

¶17189953

KRSC Event type se.
KRSC I 11 23 28 55.3–1.5 56.07N 162.87E 27–9 3.6L

¶17189954

KRSC Event type se.
KRSC I 11 23 44 35.1–.97 51.59N 157.31E 7–3 3.7L

¶17189956

KRSC Event type se.
KRSC I 15 18 29 44.1–.52 54.20N 160.73E 78–18 3.6L

¶17190273

KRSC Event type se.
ISC I 15 21 15 14.6–.96 55.84N–.03 162.25E–.03 44–10 3.4b 86 0-68
IDC I 15 21 15 08.9–1.2 55.98N 162.16E 0 3.8,3.5b ¶16151512
KRSC I 15 21 15 12.4–.51 55.76N 162.27E 44–14 4.0L,3.5b
ISCJB I 15 21 15 13.6–.38 55.81N–.03 162.27E–.05 54–6 3.5b,3.0s
MOS I 15 21 15 13.2–.78 55.88N 162.30E 47 4.2b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=47.0km s-min=18.3km az=137.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=166.0.
MOS Error ellipse: s-maj=10.4km s-min=7.9km az=75.4.
ISC I 16 19 45 16.2–2.6 51.01N–.07 158.08E–.07 30–20 55 1-60
ISCJB I 16 19 45 13.1–1.4 50.99N–.06 158.18E–.08 13–12 3.4b ¶16151596
KRSC I 16 19 45 13.4–1.3 50.99N 158.19E 48–22 4.1L
MOS I 16 19 45 14.7–.59 50.96N 158.14E 38 4.2b
IDC I 16 19 45 17.6–9.0 51.44N 156.51E 0 3.7,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=5.4km az=141.9.
KRSC Event type se.
MOS Error ellipse: s-maj=24.1km s-min=6.9km az=84.1.
IDC Error ellipse: s-maj=264.3km s-min=44.8km az=97.0.
KRSC I 18 05 26 11.1–1.1 53.28N 160.75E 47–12 3.6L

¶17190453

KRSC Event type se.
KRSC I 23 20 09 33.2–1.4 53.27N 160.72E 48–15 3.5L

¶17190830

KRSC Event type se.
ISC I 25 07 54 04.4–1.3 56.36N–.04 163.40E–.03 9–10 69 0-4
KRSC I 25 07 54 04.8–.89 56.19N 163.39E 17–7 4.2L ¶17190950
ISCJB I 25 07 54 05.3–.81 56.23N–.04 163.36E–.05 10–4 4.2L
MOS I 25 07 54 05.4–.56 56.25N 163.35E 15 4.3b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.6km az=15.1.
MOS Error ellipse: s-maj=14.7km s-min=10.5km az=156.5.
KRSC I 28 01 50 02.2–1.1 54.40N 162.00E 41–24 3.8L

¶17191165

KRSC Event type se.
KRSC I 30 08 42 33.2–1.0 54.19N 162.56E 41–24 3.6L

¶17191304

KRSC Event type se.
ISC I 30 12 15 44.2–.56 53.69N–.03 160.50E–.03 63–5 4.5b 351 1-147
BJI I 30 12 15 41.1 54.20N 160.53E 61 4.9b,4.5b ¶15981246
KRSC I 30 12 15 41.8–1.0 53.65N 160.75E 48–20 4.5L,4.5b
MOS I 30 12 15 44.3–1.1 53.76N 160.30E 75 4.7b,4.5b
ISCJB I 30 12 15 45.1–.29 53.74N–.02 160.35E–.05 80–2 4.4b,4.5b
NEIC I 30 12 15 46.2–.51 53.88N 160.20E 70–5 4.8b,4.5b
IDC I 30 12 15 47.7–1.2 53.89N 160.19E 86–10 4.2,4.1
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=7.4km s-min=3.9km az=82.8.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=2.1km az=33.3.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=155.0.
IDC Error ellipse: s-maj=15.2km s-min=9.9km az=150.0.
IDC I 31 02 58 52.3–1.3 53.38N 159.31E 137–13 3.1,2.9

¶17191382

IDC Error ellipse: s-maj=38.8km s-min=23.6km az=23.0.
ISC I 31 10 41 29.6–2.0 55.04N–.03 162.92E–.03 24–16 3.5b 96 1-82
IDC I 31 10 41 26.3–1.1 55.24N 162.59E 0 3.7,3.5 ¶17191400
KRSC I 31 10 41 28.3–.62 54.98N 162.91E 40–23 4.0L,3.5
ISCJB I 31 10 41 30.1–.49 55.01N–.02 162.93E–.05 41–9 3.5b,3.5
MOS I 31 10 41 30.1–.57 55.03N 162.91E 40 4.3b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=21.1km az=146.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.5km az=21.4.
MOS Error ellipse: s-maj=10.0km s-min=7.1km az=90.3.
ISC I 31 21 56 40.8–1.1 55.78N–.03 162.76E–.03 36–2 3.4b 89 0-84
IDC I 31 21 56 35.9–1.4 56.00N 162.34E 0 3.9,3.6 ¶17191437
KRSC I 31 21 56 37.1–.96 55.69N 162.81E 27–10 4.2L,3.6
ISCJB I 31 21 56 38.8–.74 55.73N–.03 162.81E–.04 29–6 3.9s,3.6b
MOS I 31 21 56 39.2–.59 55.77N 162.82E 31 4.2b,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=44.8km s-min=22.7km az=159.0.
KRSC Event type se.

ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=4.1km az=22.4.
MOS Error ellipse: s-maj=10.4km s-min=9.2km az=69.2.
ISC II 01 15 08 11.6–.71 54.40N–.03 161.81E–.04 40–8 3.6b 124 1-81
KRSC II 01 15 08 09.2–.83 54.38N 161.81E 51–20 4.3L ¶16168787
ISCJB II 01 15 08 11.2–.44 54.41N–.02 161.78E–.06 49–5 3.6b
MOS II 01 15 08 11.5–.73 54.43N 161.71E 51 4.0b
IDC II 01 15 08 15.0–2.0 54.64N 161.33E 69–19 3.7,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.8km az=31.8.
MOS Error ellipse: s-maj=9.3km s-min=5.1km az=79.9.
IDC Error ellipse: s-maj=22.0km s-min=12.3km az=144.0.
ISC II 02 07 48 04.7–1.1 55.03N–.03 162.88E–.03 50–10 4.0b 132 1-82
IDC II 02 07 47 59.2–.83 55.24N 162.37E 0 4.0,3.9 ¶16339697
KRSC II 02 07 48 01.4–.89 55.01N 162.97E 69–23 4.4L,3.9
ISCJB II 02 07 48 03.3–.43 55.00N–.02 162.93E–.05 56–5 3.9b,3.6s
MOS II 02 07 48 03.8–.84 55.06N 162.74E 56 4.3b,3.6s
NEIC II 02 07 48 05.4–1.0 55.21N 162.44E 46–10 4.0b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=25.8km s-min=15.1km az=136.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.2km az=25.6.
MOS Error ellipse: s-maj=8.9km s-min=5.9km az=79.7.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=6.4km az=136.0.
ISC II 03 01 46 36.3–.43 53.45N–.03 158.86E–.03 144–3 4.3b 245 0-145
BJI II 03 01 46 35.9 53.60N 158.60E 151 5.0b,4.5b ¶16000614
MOS II 03 01 46 35.5–1.1 53.50N 158.60E 149 4.4b,4.5b
ISCJB II 03 01 46 35.6–.20 53.46N–.03 158.68E–.06 150–1 4.2b,4.5b
KRSC II 03 01 46 35.4–.78 53.42N 159.06E 147–7 4.4L,4.5b
IDC II 03 01 46 36.9–.37 53.67N 158.51E 140–3 4.3,4.1
NEIC II 03 01 46 37.4–.53 53.59N 158.60E 146–5 4.4b,4.1
ISC Event type se.
MOS Error ellipse: s-maj=9.4km s-min=4.6km az=84.9.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.1km az=34.3.
KRSC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=7.7km az=147.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=150.0.
KRSC II 03 08 19 45.4–1.2 52.14N 158.84E 116–12 3.6L
¶17191583
KRSC Event type se.
ISC II 03 17 20 13.6–1.0 53.36N–.07 159.61E–.08 146–6 3.5b 39 0-63
ISCJB II 03 17 20 13.3–.66 53.35N–.06 159.6E–.10 147–4 3.4b ¶17191606
MOS II 03 17 20 13.7–.24 53.33N 159.65E 142 4.1b
IDC II 03 17 20 13.7–3.1 53.12N 159.46E 154–11 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=6.2km az=38.0.
MOS Error ellipse: s-maj=24.5km s-min=7.2km az=81.1.
IDC Error ellipse: s-maj=50.6km s-min=34.8km az=119.0.
ISC II 05 06 21 48.3–.89 53.92N–.03 160.62E–.05 67–10 3.2b 97 1-70
KRSC II 05 06 21 46.6–.68 53.92N 160.68E 68–19 3.9L ¶17191721
ISCJB II 05 06 21 47.5–.40 53.89N–.03 160.72E–.08 74–7 3.2b
MOS II 05 06 21 47.5–.51 53.92N 160.63E 73 4.0b
IDC II 05 06 21 49.4–3.5 54.71N 159.43E 95–47 3.4,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=3.1km az=23.8.
MOS Error ellipse: s-maj=14.5km s-min=5.1km az=80.3.
IDC Error ellipse: s-maj=53.1km s-min=24.3km az=170.0.
KRSC II 10 11 58 34.9–.51 53.84N 160.22E 81–8 3.8L
¶16021379
KRSC Event type se.
KRSC II 14 02 55 59.9–.60 54.51N 161.21E 15–7 3.5L
¶16024873
KRSC Event type se.
IDC II 16 01 42 17.6–4.0 53.19N 160.26E 84–50 3.6,3.5
¶17192334
IDC Error ellipse: s-maj=59.4km s-min=37.3km az=37.0.
KRSC II 16 11 25 22.7–.71 51.41N 158.24E 60–15 3.6L
¶16033438
KRSC Event type se.
ISC II 17 09 09 22.3–.72 51.06N–.06 157.88E–.05 53–7 3.7b 87 1-145
MOS II 17 09 09 21.4–1.5 51.06N 157.65E 60 4.2b ¶16033440
KRSC II 17 09 09 21.0–1.9 51.12N 158.02E 41–26 4.3L
ISCJB II 17 09 09 22.3–.72 51.12N–.05 157.87E–.09 66–6 3.6b
IDC II 17 09 09 22.6–.87 51.03N 157.87E 52–7 3.6,3.6
ISC Event type se.
MOS Error ellipse: s-maj=13.2km s-min=5.0km az=77.7.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=4.5km az=42.5.
IDC Error ellipse: s-maj=14.5km s-min=10.5km az=91.0.
KRSC II 18 00 47 50.5–.92 54.87N 162.39E 22–12 3.9L
¶16033496
KRSC Event type se.
ISC II 20 21 43 24.9–.18 55.84N–.02 162.24E–.02 39–2 6.0b,5.9s 2410 0-165
BJI II 20 21 43 18.2 55.77N 162.36E 18 6.3,6.2s ¶16033687
NEIC II 20 21 43 20.0–.00 55.92N 162.11E 15 6.3,6.2s
KRSC II 20 21 43 22.8–.79 55.73N 162.48E 48–17 6.2L,6.2s
IDC II 20 21 43 23.6–1.2 55.89N 162.20E 29–7 5.8,5.8s
NEIC II 20 21 43 24.1–.07 55.92N 162.12E 33 6.1W,6.1b
MOS II 20 21 43 24.4–.96 55.85N 162.27E 51 6.2b,6.0s
GCMT II 20 21 43 24.1–.10 55.80N 162.60E 25 6.2W,6.0s
ISCJB II 20 21 43 24.7–.21 55.87N–.01 162.26E–.02 54–1 6.0b,5.9s
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s53 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.50 $M_{\theta\theta}$0.20 $M_{\phi\phi}$0.30 $M_{r\theta}$-0.20 $M_{\theta\phi}$0.00 $M_{\phi r}$1.50 Best double couple: NP1:ϕ_s174.00000° ,δ83.00000°,λ-90.00000°. NP2:ϕ_s1.00000°,δ7.00000°,λ-83.00000°. Principal axes: T 1.5000,Plg38.0000°,Azm264.0000°; N 0.2000,Plg0.0000°,Azm173.0000° ; P -1.7000,Plg51.0000°,Azm82.0000° $M_0$2.00000×10^{18}
KRSC Event type se.
NEIC Event type fe. Felt [IV] at Klyuchi and Ust'Kamchatsk and [III] at Petropavlovsk-Kamchatskiy. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s72 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.27 $M_{\theta\theta}$4.06 $M_{\phi\phi}$0.21 $M_{r\theta}$0.88 $M_{\theta\phi}$1.20 $M_{\phi r}$7.15 Best double couple: NP1:ϕ_s81.00000°,δ23.00000° ,λ-34.00000°. NP2:ϕ_s203.00000°,δ78.00000°,λ-109.00000°. Principal axes: T 6.4100,Plg30.0000°,Azm308.0000°; N 3.1200,Plg18.0000°,Azm207.0000° ; P -9.5200,Plg54.0000°,Azm90.0000° $M_0$8.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s355.00000°,δ5.00000°,λ-90.00000°. NP2: ϕ_s175.00000°,δ85.00000°,λ-90.00000°. Principal axes: T Plg40.0000°,Azm265.0000° ; N Plg0.0000°,Azm0.0000°; P Plg50.0000°,Azm85.0000°
MOS Event type fe. Mo 1.2E18 n.m, Mw 6.0 (OBN) Fault plane solution: P-wave C43, D110 . Felt (III-IV) at Ust'-Kamchatsk, Kluchi; (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ71.00000° ,λ-106.00000°. NP2:ϕ_s37.00000°,δ24.00000°,λ-50.00000°. Principal axes: T Plg25.0000° ,Azm277.0000°; N Plg15.0000°,Azm180.0000°; P Plg60.0000°,Azm61.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c313; s133,c368;Duration: 3σ0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.25±.01 $M_{\theta\theta}$0.18±.01; $M_{\phi\phi}$0.06±.01; $M_{r\theta}$0.37±.02; $M_{\theta\phi}$-0.01±.01; $M_{\phi r}$2.30±.01; Best double couple: NP1:ϕ_s189.00000°,δ88.00000°,λ-90.00000°. NP2:ϕ_s17.00000° ,δ2.00000°,λ-83.00000°. Principal axes: T 2.2440,Plg43.0000°,Azm280.0000° ; N 0.1820,Plg0.0000°,Azm189.0000°; P -2.4270,Plg47.0000°,Azm99.0000° $M_0$2.33500×10^{18}
ISCJB Event type fe.
KRSC II 20 21 49 30.0–.56 55.74N 162.45E 55–12 3.9L
¶17192607
KRSC Event type se.
KRSC II 20 21 50 52.6–.84 55.77N 162.48E 64–16 3.6L
¶16057203
KRSC Event type se.
ISC II 20 21 52 26.5–1.4 55.72N–.04 162.43E–.04 45–25 85 1-4
KRSC II 20 21 52 23.8–.58 55.70N 162.45E 61–15 4.2L ¶16057204
MOS II 20 21 52 24.2–.53 55.75N 162.58E 57 4.3b
ISCJB II 20 21 52 25.3–.61 55.71N–.04 162.46E–.06 55–16 4.3b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC II 20 22 00 14.0–.75 55.71N 162.44E 59–21 3.7L
¶16057205
KRSC Event type se.
ISC II 20 22 03 04.4–1.1 55.78N–.03 162.42E–.03 31–9 3.5b 105 0-68
IDC II 20 22 03 01.0–1.3 56.06N 162.43E 0 3.9,3.6 ¶16057206
KRSC II 20 22 03 02.1–.48 55.77N 162.49E 62–11 4.1L,3.6
MOS II 20 22 03 03.8–.53 55.80N 162.49E 40 4.3b,3.6
ISCJB II 20 22 03 04.0–.35 55.76N–.02 162.47E–.04 47–6 3.6b,3.6
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC II 20 22 26 04.6–.69 55.69N 162.44E 57–15 3.5L
¶16057207
KRSC Event type se.
ISC II 21 05 50 19.2–1.0 55.75N–.03 162.44E–.03 41–11 3.6b,3.1s 103 1-68
IDC II 21 05 50 14.3–1.5 56.08N 162.16E 0 3.8,3.6 ¶16117311
KRSC II 21 05 50 16.7–.54 55.68N 162.48E 45–16 3.9L,3.6
MOS II 21 05 50 17.9–.88 55.77N 162.47E 46 4.2b,3.6
ISCJB II 21 05 50 18.3–.36 55.73N–.03 162.46E–.05 52–6 3.5b,3.3s
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC II 21 06 35 51.0–.98 55.80N–.03 162.46E–.03 53–9 97 0-67
IDC II 21 06 35 39.0–8.8 55.58N 163.90E 0 3.8b,3.6 ¶16117312
MOS II 21 06 35 49.6–.93 55.84N 162.51E 60 4.1b,3.6
KRSC II 21 06 35 49.0–.46 55.76N 162.48E 56–14 3.8L,3.6
ISCJB II 21 06 35 50.0–.45 55.80N–.03 162.49E–.05 66–6 3.8b,3.6
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC II 21 11 22 01.2–.90 55.76N–.03 162.37E–.03 42–9 4.2b 167 1-83
KRSC II 21 11 21 59.1–.61 55.72N 162.45E 54–15 4.8L ¶16117313
MOS II 21 11 22 00.7–.79 55.74N 162.35E 54 4.6b
ISCJB II 21 11 22 00.9–.31 55.75N–.02 162.39E–.04 57–3 4.2b
NEIC II 21 11 22 01.0–.34 55.85N 162.19E 35 4.7b
BJI II 21 11 22 02.6 55.80N 161.90E 70 4.4b
IDC II 21 11 22 04.5–2.4 55.78N 162.14E 70–22 4.2,4.1
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=9.1km s-min=5.2km az=73.2.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=25.8.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.3km az=132.0.
IDC Error ellipse: s-maj=14.6km s-min=10.3km az=137.0.
ISC II 21 17 50 45.2–.94 55.80N–.03 162.44E–.03 43–9 3.6b 120 0-83
KRSC II 21 17 50 42.4–.48 55.80N 162.47E 60–10 4.3L ¶16117314
ISCJB II 21 17 50 44.2–.33 55.79N–.02 162.44E–.05 53–4 3.7b,2.5s
MOS II 21 17 50 44.1–.74 55.82N 162.42E 49 4.0b,2.5s
IDC II 21 17 50 47.6–2.1 55.84N 162.07E 70–21 3.7,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=29.0.
MOS Error ellipse: s-maj=9.8km s-min=6.3km az=76.6.
IDC Error ellipse: s-maj=19.9km s-min=12.1km az=131.0.
ISC II 21 18 21 53.7–.79 53.06N–.03 159.47E–.04 82–4 3.0b 126 0-80
MOS II 21 18 21 52.4–.66 53.00N 159.48E 86 4.1b ¶16117315
KRSC II 21 18 21 52.2–.87 53.06N 159.49E 86–7 3.9L
ISCJB II 21 18 21 53.0–.38 53.05N–.03 159.41E–.07 91–3 3.1b
IDC II 21 18 21 54.0–1.1 53.11N 159.03E 96–12 3.7s,3.7
ISC Event type se.
MOS Error ellipse: s-maj=13.6km s-min=4.9km az=82.2.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.4km az=30.7.
IDC Error ellipse: s-maj=36.6km s-min=18.0km az=144.0.
KRSC II 21 18 29 57.9–.54 55.76N 162.46E 60–14 3.9L
¶16117316
KRSC Event type se.
KRSC II 22 01 54 10.2–.50 55.73N 162.46E 56–15 3.5L
¶16153236
KRSC Event type se.
ISC II 22 03 28 32.0–.90 53.94N–.03 160.89E–.03 62–9 3.5b 126 1-70
KRSC II 22 03 28 30.0–.79 53.94N 160.93E 69–19 3.9L ¶16153238
ISCJB II 22 03 28 31.3–.39 53.92N–.02 160.97E–.06 68–6 3.4b
MOS II 22 03 28 31.0–.40 53.93N 160.94E 67 4.2b
IDC II 22 03 28 34.3–2.9 54.01N 160.14E 105–42 3.5,3.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=2.7km az=29.2.
MOS Error ellipse: s-maj=11.9km s-min=5.0km az=81.6.
IDC Error ellipse: s-maj=73.8km s-min=27.5km az=175.0.
KRSC II 22 07 00 24.3–1.2 51.53N 158.63E 50–19 3.6L
¶16153240
KRSC Event type se.
ISC II 23 06 48 44.6–.50 53.52N–.03 160.49E–.04 96–4 4.7b 477 1-144
KRSC II 23 06 48 40.5–.93 53.43N 160.83E 94–15 5.0L ¶16117350
BJI II 23 06 48 41.8 53.83N 160.44E 92 5.0b,4.9b
MOS II 23 06 48 43.2–1.2 53.54N 160.38E 99 4.8b,4.9b
ISCJB II 23 06 48 43.9–.24 53.56N–.02 160.42E–.04 101–1 4.7b,4.9b
NEIC II 23 06 48 45.4–.45 53.62N 160.34E 98–4 4.6b,4.9b
IDC II 23 06 48 45.8–.55 53.59N 160.35E 104–4 4.7,4.4
ISC Event type fe.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=3.7km az=86.5. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.2km az=41.1.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=161.0. Felt [II] at Petropavlovsk-Kamchatskiy.
IDC Error ellipse: s-maj=10.8km s-min=5.9km az=157.0.
ISC II 23 09 37 18.4–.30 55.75N–.03 162.40E–.03 39–2 4.8b,3.9s 833 1-146
KRSC II 23 09 37 16.2–.58 55.72N 162.47E 60–14 5.0L,3.9s ¶16118183
BJI II 23 09 37 18.1 55.90N 162.10E 51 5.0b,4.5b
MOS II 23 09 37 18.5–.90 55.75N 162.23E 57 5.0b,4.5b
ISCJB II 23 09 37 18.5–.23 55.77N–.02 162.33E–.03 55–2 4.7b,3.9s
NEIC II 23 09 37 19.0–.13 55.86N 162.08E 41 4.8b,3.9s
IDC II 23 09 37 20.5–2.1 55.77N 162.21E 60–19 4.5,4.4
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=77.5.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=146.6.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.5km az=157.0.
IDC Error ellipse: s-maj=12.7km s-min=9.0km az=148.0.
ISC II 23 14 03 05.3–.96 55.81N–.03 162.44E–.03 45–9 3.8b 122 0-83
KRSC II 23 14 03 02.7–.54 55.77N 162.47E 59–14 4.6L ¶16157613
ISCJB II 23 14 03 04.5–.34 55.78N–.02 162.43E–.05 55–4 3.8b,3.0s
MOS II 23 14 03 04.7–.86 55.84N 162.35E 58 4.3b,3.0s
IDC II 23 14 03 08.3–2.5 55.84N 162.14E 72–24 3.9,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=25.3.
MOS Error ellipse: s-maj=9.6km s-min=6.1km az=72.0.
IDC Error ellipse: s-maj=16.7km s-min=11.9km az=149.0.
KRSC II 23 21 12 10.2–.67 55.66N 162.42E 43–18 3.8L
¶16157615
KRSC Event type se.
ISC II 24 04 52 42.8–1.0 53.28N–.04 160.62E–.04 41–11 3.3b 82 0-70
KRSC II 24 04 52 40.8–1.4 53.28N 160.66E 47–15 3.9L ¶16157620
MOS II 24 04 52 41.8–.81 53.21N 160.70E 44 4.2b
ISCJB II 24 04 52 42.8–.57 53.27N–.03 160.60E–.06 47–7 3.2b

IDC II 24 04 52 46.5–2.2 53.74N 160.13E 79–24 3.4,3.4
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=9.5km s-min=5.4km az=86.3.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=3.6km az=40.7.
IDC Error ellipse: s-maj=50.5km s-min=20.7km az=154.0.
ISC II 24 10 34 31.5–.92 55.78N–.03 162.43E–.03 44–9 3.6b 109 0-83
IDC II 24 10 34 25.9–.84 56.14N 162.05E 0 3.9,3.7b **¶16157624**
KRSC II 24 10 34 28.5–.49 55.73N 162.47E 58–16 4.2L,3.7b
MOS II 24 10 34 29.8–.77 55.81N 162.44E 48 4.3b,3.7b
ISCJB II 24 10 34 30.1–.34 55.75N–.02 162.44E–.04 55–4 3.6b,3.7b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC II 24 21 18 23.3–.51 55.72N 162.45E 58–15 3.8L
¶17192807
KRSC Event type se.
KRSC II 25 02 45 06.1–.61 53.25N 158.39E 173–4 3.6L
¶16160696
KRSC Event type se.
ISC II 25 08 27 55.0–1.1 55.78N–.03 162.36E–.03 28–10 92 1-68
KRSC II 25 08 27 53.0–.61 55.69N 162.44E 45–15 3.7L **¶16160697**
IDC II 25 08 27 52.2–1.9 54.77N 163.58E 0 3.8,3.8s
ISCJB II 25 08 27 54.8–.46 55.72N–.03 162.42E–.05 34–13 3.7s,3.2b
MOS II 25 08 27 54.9–.84 55.76N 162.38E 37 3.9b,3.2b
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=120.4km s-min=31.6km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=4.3km az=22.6.
MOS Error ellipse: s-maj=9.4km s-min=7.2km az=81.8.
KRSC II 26 08 53 50.2–1.4 51.86N 157.78E 164–12 3.6L
¶16160698
KRSC Event type se.
ISC II 27 09 37 52.0–1.0 53.57N–.03 160.78E–.04 46–10 3.6b 107 1-80
KRSC II 27 09 37 50.2–1.0 53.57N 160.86E 48–17 4.2L **¶16166871**
MOS II 27 09 37 51.6–.73 53.56N 160.76E 57 4.1b
ISCJB II 27 09 37 52.0–.47 53.57N–.03 160.75E–.07 61–4 3.7b
IDC II 27 09 37 55.1–1.9 53.81N 160.37E 71–17 3.7,3.6
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=11.6km s-min=5.8km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=3.1km az=37.6.
IDC Error ellipse: s-maj=20.1km s-min=14.6km az=145.0.
ISC III 01 00 06 32.9–1.0 51.88N–.09 157.49E–.10 128–8 3.1b 23 1-73
ISCJB III 01 00 06 31.9–.73 51.89N–.09 157.5E–.10 133–6 3.0b **¶16176408**
KRSC III 01 00 06 31.3–1.2 51.88N 157.52E 132–13 3.7L
IDC III 01 00 06 32.8–3.7 51.87N 157.33E 128–20 3.3,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=9.5km az=41.3.
KRSC Event type se.
IDC Error ellipse: s-maj=55.6km s-min=23.7km az=175.0.
KRSC III 01 01 36 47.9–1.2 51.46N 158.55E 81–20 3.6L
¶16176409
KRSC Event type se.
KRSC III 01 08 24 11.7–.82 51.48N 157.83E 89–11 3.5L
¶16176412
KRSC Event type se.
KRSC III 01 23 27 07.2–.63 55.65N 162.41E 41–19 3.7L
¶16176413
KRSC Event type se.
KRSC III 02 17 52 32.1–1.0 51.14N 157.59E 118–9 3.6L
¶16193979
KRSC Event type se.
KRSC III 04 20 19 10.5–1.4 51.98N 158.04E 154–11 4.0L
¶16293245
KRSC Event type se.
ISC III 05 04 18 06.1–2.2 54.91N–.05 163.00E–.05 11–13 3.5b 72 1-73
IDC III 05 04 18 04.9–1.2 55.15N 162.67E 0 3.8,3.6 **¶16293247**
KRSC III 05 04 18 05.1–.83 54.77N 163.22E 41–22 4.1L,3.6
ISCJB III 05 04 18 06.5–1.5 54.81N–.03 163.14E–.06 24–12 3.4b,3.2s
MOS III 05 04 18 08.7–.55 54.85N 162.95E 48 4.0b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=42.1km s-min=18.3km az=162.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=30.3.
MOS Error ellipse: s-maj=12.8km s-min=8.7km az=96.5.
ISC III 05 05 58 10.7–.30 52.82N–.03 158.85E–.03 96–2 4.5b 280 0-148
BJI III 05 05 58 03.3 52.89N 159.66E 93 5.0b,4.4b **¶16195231**
MOS III 05 05 58 10.0–1.1 52.85N 158.70E 105 4.5b,4.4b
ISCJB III 05 05 58 10.3–.24 52.84N–.03 158.80E–.04 108–1 4.5b,4.4b
KRSC III 05 05 58 10.1–.82 52.78N 159.11E 91–7 4.6L,4.4b
IDC III 05 05 58 11.8–.48 53.02N 158.70E 101–3 4.0,3.8
NEIC III 05 05 58 11.5–.42 52.87N 158.67E 103–3 4.7b,3.8
ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=10.1km s-min=4.8km az=82.7. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.9km az=136.1.
KRSC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=7.9km az=164.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=3.9km az=180.0. Felt [III] at Petropavlovsk-Kamchatskiy.
ISC III 06 08 39 52.0–.42 53.60N–.04 159.41E–.04 163–3 4.1b 209 0-144
BJI III 06 08 39 49.2 53.78N 159.53E 169 4.7b,4.3b **¶16245364**
KRSC III 06 08 39 50.5–1.3 53.53N 159.78E 154–11 4.4L,4.3b
MOS III 06 08 39 51.1–.91 53.66N 159.20E 164 4.1b,4.3b
ISCJB III 06 08 39 51.2–.25 53.65N–.03 159.23E–.06 167–1 4.0b,4.3b
IDC III 06 08 39 52.5–.41 53.75N 159.13E 159–3 4.1,3.8
NEIC III 06 08 39 52.4–.36 53.72N 159.11E 161–3 4.4b,3.8
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=9.3km s-min=5.1km az=78.2.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=2.9km az=33.6.
IDC Error ellipse: s-maj=11.5km s-min=6.8km az=139.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.1km az=142.0.
ISC III 07 22 18 38.1–.79 53.33N–.04 159.89E–.04 81–5 3.8b 102 0-80
KRSC III 07 22 18 37.2–.78 53.35N 159.92E 82–8 4.3L **¶16293254**
ISCJB III 07 22 18 37.8–.42 53.33N–.04 159.81E–.07 93–3 3.8b
MOS III 07 22 18 37.4–.97 53.31N 159.84E 84 4.0b
IDC III 07 22 18 37.4–2.5 53.60N 159.83E 79–19 3.7,3.6
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=3.6km az=36.8.
MOS Error ellipse: s-maj=13.8km s-min=5.7km az=80.6.
IDC Error ellipse: s-maj=27.0km s-min=23.4km az=9.0.
IDC III 10 14 54 32.2–1.0 53.19N 158.26E 160–9 3.3,3.1
¶17193635
IDC Error ellipse: s-maj=36.2km s-min=27.4km az=54.0.
KRSC III 11 16 06 01.2–.45 54.04N 160.96E 66–16 3.5L
¶16311597
KRSC Event type se.
IDC III 12 05 17 42.9–9.6 54.08N 159.55E 0
¶17194265
IDC Error ellipse: s-maj=94.8km s-min=31.8km az=49.0.
IDC III 12 07 10 09.2–12 54.13N 159.60E 0
¶17194282
IDC Error ellipse: s-maj=105.7km s-min=32.6km az=48.0.
KRSC III 12 22 00 28.8–.68 54.35N 161.68E 41–24 3.8L
¶16311602
KRSC Event type se.
IDC III 13 01 23 57.3–9.9 54.07N 159.58E 0
¶17194657
IDC Error ellipse: s-maj=94.8km s-min=32.2km az=50.0.
KRSC III 13 07 19 33.8–.58 53.71N 160.49E 69–16 3.7L
¶16314726
KRSC Event type se.
ISC III 14 19 45 49.1–.67 55.78N–.03 162.42E–.03 41–6 4.0b 119 0-83
IDC III 14 19 45 43.4–.65 55.86N 162.16E 0 4.1,3.9 **¶16320490**
KRSC III 14 19 45 47.1–.58 55.66N 162.43E 40–17 4.6L,3.9
MOS III 14 19 45 48.1–.73 55.81N 162.43E 49 4.2b,3.9
ISCJB III 14 19 45 48.6–.35 55.75N–.03 162.39E–.05 56–3 4.0b,3.9
NEIC III 14 19 45 50.2–.98 55.86N 162.24E 49–10 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=12.3km az=172.0.
KRSC Event type se.
MOS Error ellipse: s-maj=10.0km s-min=6.2km az=76.9.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=32.4.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.4km az=162.0.
IDC III 15 22 23 12.3–10 54.70N 161.03E 665–105 3.6,2.9
¶17196279
IDC Error ellipse: s-maj=129.7km s-min=24.7km az=0.0.
KRSC III 17 07 21 22.6–1.6 53.26N 160.70E 48–16 3.9L
¶16338013
KRSC Event type se.
ISC III 18 12 29 28.9–.85 54.28N–.03 162.11E–.04 25–5 4.1b 157 1-150
KRSC III 18 12 29 29.4–.95 54.24N 162.25E 41–24 4.5L **¶16336106**
MOS III 18 12 29 31.5–.83 54.27N 162.17E 53 4.6b
IDC III 18 12 29 33.9–3.1 54.55N 161.70E 55–28 4.0,4.0
NEIC III 18 12 29 35.5–1.3 54.44N 161.71E 74–11 4.2b,4.0
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=9.7km s-min=5.7km az=87.1.
IDC Error ellipse: s-maj=17.2km s-min=12.8km az=165.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=11.0km az=153.0.
IDC III 21 19 41 09.2–283 54.41N 160.13E 0
¶17197742
IDC Error ellipse: s-maj=104.1km s-min=42.3km az=49.0.
IDC III 21 22 49 12.9–295 54.41N 160.27E 0
¶17197770
IDC Error ellipse: s-maj=110.1km s-min=44.2km az=50.0.
ISC III 22 21 31 09.8–.72 53.10N–.04 159.91E–.04 58–5 3.8b 130 0-144
KRSC III 22 21 31 09.4–.73 53.12N 159.99E 60–7 4.4L **¶17198077**
MOS III 22 21 31 09.2–1.0 53.04N 159.88E 68 4.1b
ISCJB III 22 21 31 10.2–.42 53.10N–.03 159.87E–.06 75–3 3.7b
IDC III 22 21 31 14.0–1.1 53.20N 159.53E 94–9 3.8,3.7
ISC Event type se.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=9.9km s-min=5.1km az=86.9. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=3.1km az=38.0.
IDC Error ellipse: s-maj=23.1km s-min=14.5km az=177.0.
ISC III 27 12 15 12.1–.52 53.76N–.03 160.66E–.03 53–4 4.8b,3.9s 828 1-155
KRSC III 27 12 15 09.2–.94 53.67N 160.89E 54–20 5.1L,3.9s **¶16362967**
IDC III 27 12 15 09.7–1.8 53.82N 160.41E 33–13 4.6L,4.3
BJI III 27 12 15 10.2 54.14N 160.54E 53 4.9b,4.8b
MOS III 27 12 15 11.8–.98 53.76N 160.51E 70 5.0b,4.8b
ISCJB III 27 12 15 12.3–.23 53.78N–.02 160.59E–.03 71–2 4.6b,4.8b
NEIC III 27 12 15 13.4–.43 53.91N 160.44E 61–4 4.8b,4.8b
ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=8.9km az=151.0.
MOS Event type fe. Error ellipse: s-maj=7.1km s-min=4.2km az=74.8. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.1km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=168.0. Felt [III] at Petropavlovsk-Kamchatskiy.
ISC III 27 19 39 44.5–1.1 53.70N–.03 160.81E–.04 46–13 3.1b 112 1-78
IDC III 27 19 39 38.8–1.8 53.88N 160.76E 0 4.0L,3.7 **¶16364026**
KRSC III 27 19 39 42.8–1.0 53.71N 160.85E 43–18 4.0L,3.7
MOS III 27 19 39 44.6–.82 53.69N 160.80E 44 4.2b,3.7
ISCJB III 27 19 39 44.2–.52 53.69N–.03 160.78E–.08 63–6 3.4b,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
IDC III 28 00 36 15.4–9.1 53.95N 159.43E 0
¶17198873
IDC Error ellipse: s-maj=96.3km s-min=30.7km az=51.0.
IDC III 28 12 59 21.6–13 54.10N 159.74E 0
¶17198951
IDC Error ellipse: s-maj=104.0km s-min=34.8km az=52.0.
IDC III 29 05 50 28.5–9.3 53.96N 159.40E 0
¶17199036
IDC Error ellipse: s-maj=96.4km s-min=29.3km az=50.0.
KRSC III 29 17 32 34.9–1.5 52.02N 158.59E 88–16 3.6L
¶16391152
KRSC Event type se.
IDC IV 01 01 13 28.6–10 54.13N 159.91E 0
¶17199372
IDC Error ellipse: s-maj=105.6km s-min=35.9km az=53.0.
ISC IV 03 00 49 18.9–1.1 55.31N–.03 162.54E–.04 47–16 3.4b 61 1-68
IDC IV 03 00 49 12.9–1.2 55.92N 162.15E 0 3.7,3.4 **¶16406022**
KRSC IV 03 00 49 15.9–.72 55.33N 162.55E 79–17 3.8L,3.4
ISCJB IV 03 00 49 17.6–.40 55.32N–.03 162.51E–.06 73–7 3.4b,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC IV 05 06 20 14.1–2.4 51.20N–.09 158.41E–.08 1–12 3.4b 46 1-74
KRSC IV 05 06 20 12.7–1.2 50.97N 158.29E 42–20 4.3L **¶16410383**
MOS IV 05 06 20 12.0–.59 50.80N 158.16E 38 4.4b
IDC IV 05 06 20 19.7–1.2 51.55N 157.46E 0 3.7,3.5
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=31.0km s-min=6.9km az=86.0.
IDC Error ellipse: s-maj=32.8km s-min=20.9km az=103.0.
ISC IV 07 10 43 17.0–1.6 55.09N–.02 161.82E–.03 35–7 121 1-6
KRSC IV 07 10 43 14.5–.58 55.06N 161.82E 70–12 4.1L **¶16414227**
MOS IV 07 10 43 16.2–.48 55.06N 161.83E 44 4.3b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=11.7km s-min=5.8km az=82.9.
KRSC IV 08 10 25 20.5–1.1 53.33N 160.70E 48–18 3.9L
¶16416672
KRSC Event type se.
KRSC IV 08 15 28 05.7–.53 55.75N 161.89E 82–9 3.9L
¶16416702
KRSC Event type se.
ISC IV 09 23 44 10.9–1.1 53.32N–.05 160.65E–.05 47 3.4b 50 0-60
KRSC IV 09 23 44 08.5–1.4 53.31N 160.72E 41–16 3.9L **¶16416712**
ISCJB IV 09 23 44 10.5–.64 53.31N–.04 160.64E–.07 47 3.5b
IDC IV 09 23 44 14.0–5.7 53.50N 160.29E 84–36 3.4,3.3
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=2.6km az=39.4.
IDC Error ellipse: s-maj=58.2km s-min=36.0km az=113.0.
KRSC IV 10 07 09 37.7–.73 55.70N 162.30E 53–19 3.7L
¶16416748
KRSC Event type se.
KRSC IV 15 04 44 51.2–.98 51.01N 158.13E 16–10 3.8L
¶16440073
KRSC Event type se.
KRSC IV 16 15 58 07.7–1.1 53.39N 160.65E 50–15 3.6L
¶16442664
KRSC Event type se.

KRSC IV 16 19 30 28.1–.88 56.17N 162.47E 21–8 3.8L
¶16442667

KRSC Event type se.
ISC IV 18 12 31 34.9–1.4 55.79N–.03 162.43E–.03 14–9 3.5b 63 0-68
IDC IV 18 12 31 33.7–1.6 55.61N 162.90E 0 3.7,3.5 **¶16448688**
KRSC IV 18 12 31 34.9–.68 55.75N 162.48E 54–17 3.9L,3.5
ISC Event type se.
IDC Error ellipse: s-maj=55.1km s-min=23.7km az=161.0.
KRSC Event type se.
KRSC IV 19 11 39 16.9–.65 55.73N 162.43E 60–18 3.5L
¶16448793

KRSC Event type se.
ISC IV 19 22 42 25.6–.93 53.06N–.06 158.45E–.08 151–5 3.3b 45 0-72
ISCJB IV 19 22 42 24.8–.54 53.02N–.05 158.5E–.10 152–3 3.3b **¶16448796**
KRSC IV 19 22 42 24.2–.66 53.06N 158.42E 152–5 3.7L
IDC IV 19 22 42 25.4–1.4 53.15N 158.45E 141–39 3.5,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=6.6km az=30.4.
KRSC Event type se.
IDC Error ellipse: s-maj=123.9km s-min=41.2km az=84.0.
KRSC IV 26 15 00 39.4–.60 55.00N 161.78E 72–11 3.7L
¶16463560

KRSC Event type se.
KRSC IV 27 17 37 32.3–.74 55.98N 162.64E 20–8 3.7L
¶16465962

KRSC Event type se.
ISC IV 28 02 15 37.4–.93 56.32N–.04 162.94E–.03 18–4 4.2b,3.6s 174 0-90
KRSC IV 28 02 15 34.6–.89 56.28N 163.22E 22–7 4.5L,3.6s **¶16489775**
IDC IV 28 02 15 34.5–.59 56.31N 162.53E 0 4.3L,4.1
MOS IV 28 02 15 36.6–1.8 56.50N 162.56E 14 4.4b,4.1
NEIC IV 28 02 15 42.4–.94 56.35N 162.30E 53–10 4.4b,4.1
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=11.6km az=164.0.
MOS Error ellipse: s-maj=9.3km s-min=5.0km az=65.4.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.0km az=153.0.
ISC IV 28 11 19 51.4–1.4 56.19N–.03 163.52E–.03 12–8 3.9b,3.3s 121 0-90
KRSC IV 28 11 19 49.8–1.3 56.15N 163.66E 26–9 4.3L,3.3s **¶17202297**
ISCJB IV 28 11 19 51.7–.79 56.20N–.02 163.58E–.04 25–6 3.9b,3.4s
MOS IV 28 11 19 53.8–.88 56.21N 163.42E 47 4.1b,3.4s
IDC IV 28 11 19 56.3–2.8 56.24N 163.19E 46–27 3.9,3.8
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.3km az=37.5.
MOS Error ellipse: s-maj=10.6km s-min=6.2km az=65.0.
IDC Error ellipse: s-maj=17.1km s-min=12.0km az=152.0.
KRSC IV 29 19 55 56.2–.69 55.77N 162.46E 40–19 3.6L
¶16485190

KRSC Event type se.
KRSC IV 30 05 57 40.8–1.0 52.51N 158.65E 148–7 3.5L
¶16485918

KRSC Event type se.
ISC IV 30 14 07 19.6–.55 55.79N–.03 162.36E–.03 54–4 4.8b,3.7s 663 1-143
KRSC IV 30 14 07 16.5–.44 55.78N 162.45E 69–10 5.0L,3.7s **¶16485477**
ISCJB IV 30 14 07 18.8–.23 55.81N–.02 162.28E–.03 62–2 4.7b,3.7s
MOS IV 30 14 07 18.6–1.0 55.80N 162.23E 59 5.0b,3.7s
NEIC IV 30 14 07 20.7–.57 55.86N 162.10E 59–5 4.8b,3.7s
IDC IV 30 14 07 22.5–2.0 55.84N 162.09E 75–18 4.5,4.3
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.2km az=144.3.
MOS Error ellipse: s-maj=7.3km s-min=4.4km az=77.3.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.0km az=160.0.
IDC Error ellipse: s-maj=12.6km s-min=8.7km az=154.0.
KRSC V 01 00 51 17.1–.63 53.58N 160.79E 48–16 3.6L
¶16486818

KRSC Event type se.
KRSC V 01 05 45 05.6–.52 55.75N 162.47E 60–14 3.5L
¶16486824

KRSC Event type se.
KRSC V 01 08 30 10.6–1.2 56.09N 163.47E 6–15 3.6L
¶16486826

KRSC Event type se.
ISC V 01 17 48 40.3–1.9 53.66N–.03 160.84E–.04 25–15 3.4b 111 1-70
IDC V 01 17 48 36.2–.91 54.15N 160.40E 0 3.8,3.5 **¶16486828**
KRSC V 01 17 48 38.9–.91 53.66N 160.90E 47–16 4.2L,3.5
MOS V 01 17 48 40.2–.62 53.61N 160.92E 45 4.1b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=35.4km s-min=11.6km az=148.0.
KRSC Event type se.
MOS Error ellipse: s-maj=10.9km s-min=5.8km az=79.3.
KRSC V 02 12 20 02.5–.95 54.26N 160.01E 139–12 3.6L
¶16488867

KRSC Event type se.
ISC V 04 03 21 42.7–.59 53.14N–.03 159.94E–.04 63–4 4.4b 282 0-144
KRSC V 04 03 21 41.3–.83 53.11N 160.06E 58–9 4.9L **¶16491557**
ISCJB V 04 03 21 42.9–.30 53.15N–.03 159.84E–.05 78–2 4.3b
MOS V 04 03 21 42.4–1.2 53.16N 159.80E 75 4.5b
NEIC V 04 03 21 44.7–.48 53.36N 159.66E 74–4 4.5b
IDC V 04 03 21 46.3–1.0 53.37N 159.60E 87–8 4.2,4.1
ISC Event type fe.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.7km az=41.8.
MOS Event type fe. Error ellipse: s-maj=7.7km s-min=4.3km az=86.7. Felt (II-III) at Viluchinsk, Ribachiy, Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=161.0. Felt [III] at Petropavlovsk-Kamchatskiy.
IDC Error ellipse: s-maj=15.4km s-min=10.4km az=153.0.
KRSC V 07 02 48 11.6–.70 54.64N 162.58E 34–11 3.5L
¶16499287

KRSC Event type se.
ISC V 13 13 21 26.2–.74 53.73N–.03 160.76E–.04 48–7 4.0b,3.3s 171 1-83
KRSC V 13 13 21 24.8–.97 53.73N 160.79E 56–19 4.8L,3.3s **¶16510213**
ISCJB V 13 13 21 26.7–.38 53.74N–.02 160.70E–.06 65–3 3.9b,3.3s
MOS V 13 13 21 26.3–.99 53.73N 160.68E 63 4.1b,3.3s
IDC V 13 13 21 29.3–1.6 53.92N 160.42E 74–15 4.0,3.9
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=2.2km az=31.9.
MOS Error ellipse: s-maj=8.7km s-min=4.9km az=77.8.
IDC Error ellipse: s-maj=16.2km s-min=11.5km az=151.0.
KRSC V 13 20 26 58.8–.66 55.43N 162.75E 28–9 3.8L
¶16510215

KRSC Event type se.
KRSC V 16 04 26 22.6–1.6 51.13N 157.90E 100–26 3.9L
¶16523233

KRSC Event type se.
ISC V 17 08 21 32.6–1.7 51.62N–.05 158.75E–.05 26–13 67 1-6
MOS V 17 08 21 27.7–1.5 51.23N 158.82E 56 4.2b **¶16525812**
KRSC V 17 08 21 30.9–1.8 51.64N 158.80E 65–21 4.0L
ISCJB V 17 08 21 33.2–.82 51.63N–.05 158.75E–.09 42–22 4.0L
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC V 20 15 25 29.4–.52 56.01N 161.63E 81–7 3.8L
¶16531566

KRSC Event type se.
KRSC V 24 02 31 40.4–.57 55.71N 162.28E 51–16 3.7L
¶16539590

KRSC Event type se.
ISC V 25 05 53 52.8–.74 52.55N–.05 158.37E–.06 127–5 3.4b 75 0-75
ISCJB V 25 05 53 51.8–.44 52.57N–.05 158.3E–.10 131–3 3.2b **¶16545941**
KRSC V 25 05 53 51.2–.95 52.49N 158.53E 126–7 3.7L
MOS V 25 05 53 51.2–.54 52.53N 158.29E 130 4.0b
IDC V 25 05 53 52.4–1.2 52.60N 158.00E 123–14 3.4,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=6.0km az=36.4.
KRSC Event type se.
MOS Error ellipse: s-maj=26.3km s-min=9.9km az=71.6.
IDC Error ellipse: s-maj=59.2km s-min=20.0km az=138.0.
KRSC V 27 18 59 38.8–.75 55.16N 162.31E 76–23 3.7L
¶16631591

KRSC Event type se.
ISC V 28 17 47 05.6–.70 56.02N–.04 161.27E–.04 103–5 3.4b 70 0-83
KRSC V 28 17 47 03.8–.52 56.01N 161.31E 108–5 4.0L **¶16551368**
ISCJB V 28 17 47 04.5–.34 56.03N–.03 161.28E–.06 111–3 3.3b
IDC V 28 17 47 05.5–.79 55.91N 161.15E 106–7 3.5,3.4
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=29.3.
IDC Error ellipse: s-maj=25.0km s-min=14.8km az=130.0.
KRSC V 30 02 04 04.9–.85 55.83N 162.69E 45–16 3.8L
¶16551557

KRSC Event type se.
ISC V 31 05 59 32.8–1.3 55.78N–.03 162.41E–.03 25–10 3.8b,3.2s 117 1-83
IDC V 31 05 59 29.0–.66 55.70N 162.53E 0 4.0,3.9 **¶16552783**
KRSC V 31 05 59 31.1–.51 55.73N 162.44E 45–15 4.5L,3.9
ISCJB V 31 05 59 32.8–.39 55.77N–.02 162.41E–.05 39–5 3.8b,3.2s
NEIC V 31 05 59 32.5–3.9 55.81N 162.52E 22–30 4.2b,3.2s
MOS V 31 05 59 32.4–.80 55.81N 162.47E 39 4.0b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=12.9km az=157.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.4km az=21.4.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=8.0km az=151.0.
MOS Error ellipse: s-maj=9.8km s-min=5.4km az=71.9.
KRSC VI 01 12 33 56.8–.88 54.33N 161.66E 36–9 3.7L
¶603071536

KRSC Event type se.
ISC VI 02 16 33 35.5–1.1 55.77N–.02 162.21E–.03 32–9 3.7b 115 1-68
IDC VI 02 16 33 31.6–1.6 55.94N 162.22E 0 4.0,3.7 **¶16555885**
KRSC VI 02 16 33 34.1–.59 55.74N 162.28E 56–16 3.9L,3.7
MOS VI 02 16 33 35.4–.67 55.79N 162.29E 46 4.2b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=28.9km az=163.0.
KRSC Event type se.
MOS Error ellipse: s-maj=10.2km s-min=6.1km az=75.2.
KRSC VI 05 23 04 17.9–.80 53.71N 160.79E 47–17 4.0L
¶603071546

KRSC Event type se.
KRSC VI 07 21 41 10.5–.68 55.76N 162.55E 60–15 3.9L
¶603071549

KRSC Event type se.
ISC VI 08 14 24 21.8–.71 51.90N–.07 157.67E–.08 133–6 3.5b 46 1-78
KRSC VI 08 14 24 20.0–1.4 51.67N 158.14E 119–22 3.7L **¶16580427**
IDC VI 08 14 24 22.9–.91 52.10N 157.32E 140–8 3.7,3.5
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=11.7km az=144.0.
ISC VI 08 21 57 19.1–1.2 55.80N–.03 162.42E–.03 30–9 3.6b 106 0-83
IDC VI 08 21 57 15.4–.97 56.09N 162.33E 0 3.8,3.6 **¶16580430**
KRSC VI 08 21 57 17.6–.57 55.73N 162.50E 45–15 4.1L,3.6
MOS VI 08 21 57 18.7–.62 55.83N 162.50E 42 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=20.7km az=133.0.
KRSC Event type se.
MOS Error ellipse: s-maj=9.3km s-min=6.6km az=72.5.
KRSC VI 09 08 05 34.4–.80 52.23N 158.91E 72–7 3.8L
¶603071554

KRSC Event type se. FELT [II] at lighthouse Krugliy.
KRSC VI 11 00 44 30.1–1.1 54.65N 161.98E 40–6 3.5L
¶603071556

KRSC Event type se.
KRSC VI 11 04 40 55.1–1.1 53.06N 160.00E 70–13 3.9L
¶603071559

KRSC Event type se.
ISC VI 14 23 01 35.5–.50 55.30N–.03 162.20E–.04 87–3 4.8b 727 1-117
BJI VI 14 23 01 31.8 55.30N 162.07E 85 4.9b,4.7b **¶16598344**
KRSC VI 14 23 01 31.1–.65 55.27N 162.52E 90–17 5.4L,4.7b
IDC VI 14 23 01 32.1–1.8 55.35N 162.07E 53–15 4.6,4.5
MOS VI 14 23 01 34.5–.94 55.32N 162.10E 91 4.8b,4.5
ISCJB VI 14 23 01 34.6–.22 55.32N–.02 162.13E–.03 93–2 4.7b,4.5
NEIC VI 14 23 01 35.5–.46 55.46N 161.94E 81–4 4.8b,4.5
ISC Event type fe.
KRSC Event type se. FELT [II] at Ust-Kamchatsk.
IDC Error ellipse: s-maj=13.5km s-min=8.9km az=148.0.
MOS Event type fe. Error ellipse: s-maj=6.0km s-min=3.5km az=84.7. Felt (II) at Ust'-Kamchatsk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=144.6.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.5km az=159.0. Felt [II] at Ust'-Kamchatsk.
KRSC VI 17 10 07 50.2–.92 56.29N 163.22E 6–7 3.7L
¶603071571

KRSC Event type se.
KRSC VI 17 18 35 55.9–.65 55.23N 161.74E 75–13 3.9L
¶603071573

KRSC Event type se.
KRSC VI 19 10 37 36.1–1.1 51.66N 158.44E 105–16 3.7L
¶603071574

KRSC Event type se. FELT [II] at lighthouse Krugliy.
ISC VI 19 15 43 18.5–1.3 54.91N–.02 162.31E–.03 11–10 100 0-4
KRSC VI 19 15 43 18.5–.88 54.84N 162.37E 43–14 4.1L **¶16638779**
ISCJB VI 19 15 43 19.1–.91 54.86N–.02 162.36E–.06 22–7 4.1L
MOS VI 19 15 43 20.1–1.0 54.89N 162.31E 46 4.2b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.1km az=19.7.
MOS Error ellipse: s-maj=11.0km s-min=6.1km az=78.4.
KRSC VI 21 05 22 25.8–.59 55.02N 162.44E 44–13 4.0L
¶603071576

KRSC Event type se.
KRSC VI 22 19 55 25.5–1.2 56.06N 163.92E 15–10 3.9L
¶603071580

KRSC Event type se.
KRSC VI 24 23 19 01.1–.45 55.25N 162.67E 59–19 3.8L
¶603071583

KRSC Event type se.
KRSC VI 26 13 38 49.3–.78 56.27N 162.85E 18–4 3.7L
¶603071588

KRSC Event type se.
ISC VI 27 09 32 26.6–1.1 54.85N–.02 162.29E–.03 25–9 3.4b 130 0-82
IDC VI 27 09 32 24.1–1.6 54.27N 162.89E 0 3.7,3.4 **¶16683852**
KRSC VI 27 09 32 25.2–.68 54.81N 162.30E 41–10 4.1L,3.4
ISCJB VI 27 09 32 26.9–.45 54.83N–.02 162.30E–.05 38–8 3.3b,3.0s
MOS VI 27 09 32 26.8–.57 54.83N 162.33E 36 4.3b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=78.3km s-min=24.5km az=154.0.
KRSC Event type se. FELT [II] at GMS Kronoki.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.0km az=18.6.
MOS Event type fe. Error ellipse: s-maj=8.4km s-min=5.3km az=82.2. Felt (II) at Kronoki. Moment Tensor Solution.
ISC VI 30 20 59 43.5–1.2 53.41N–.03 160.63E–.03 27–9 4.1b,3.2s 171 1-80
KRSC VI 30 20 59 43.0–1.4 53.26N 160.71E 48–19 4.6L,3.2s **¶16702922**

MOS VI 30 20 59 45.1–.65 53.27N 160.59E 55 4.2b,3.2s
IDC VI 30 20 59 49.8–1.5 53.53N 160.20E 80–13 4.1,4.0
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=8.4km s-min=4.5km az=82.5.
IDC Error ellipse: s-maj=16.9km s-min=11.3km az=144.0.

(219) Off east coast of Kamchatka Peninsula.

ISC I 04 04 29 57.0–.95 51.28N–.08 162.00E–.06 35 3.6b 47 2-70
IDC I 04 04 29 52.1–2.3 51.24N 161.99E 0 3.7,3.5 ¶16150454
KRSC I 04 04 29 53.1–1.7 51.27N 161.98E 100–41 4.1L,3.5
ISCJB I 04 04 29 55.1–.66 51.25N–.07 161.94E–.08 33 3.6b,3.5
MOS I 04 04 29 58.6–1.9 51.32N 161.48E 78 4.0b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=73.7km s-min=17.8km az=11.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=5.5km az=26.0.
MOS Error ellipse: s-maj=18.7km s-min=8.9km az=119.4.
KRSC I 05 16 20 00.4–1.4 52.23N 159.45E 39–16 3.7L
¶17189521
KRSC Event type se.
KRSC I 11 02 50 37.6–1.0 52.57N 160.29E 22–8 3.5L
¶17189893
KRSC Event type se.
ISC I 11 03 45 32.9–1.5 52.54N–.05 160.21E–.06 31–10 3.9b,3.5s 57 1-79
KRSC I 11 03 45 29.2–1.8 52.44N 160.48E 18–14 4.1L,3.5s ¶16151037
MOS I 11 03 45 34.8–.82 52.69N 160.17E 23 4.0b,3.5s
IDC I 11 03 45 46.0–2.8 53.63N 158.48E 69–15 3.9,3.7
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=13.1km s-min=6.9km az=94.0.
IDC Error ellipse: s-maj=58.2km s-min=22.7km az=78.0.
KRSC I 11 05 34 21.8–1.5 52.53N 160.46E 20–10 3.7L
¶17189900
KRSC Event type se.
ISC I 16 08 37 59.5–1.7 52.53N–.06 160.23E–.05 17–10 3.6b,3.3s 33 1-71
IDC I 16 08 37 58.6–1.1 53.60N 160.21E 0 3.8,3.6 ¶17190308
KRSC I 16 08 37 59.7–1.3 52.56N 160.25E 16–11 3.8L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=14.2km az=158.0.
KRSC Event type se.
ISC I 16 11 18 49.3–1.8 52.62N–.05 160.08E–.05 5–11 52 0-4
KRSC I 16 11 18 45.9–2.7 52.48N 160.43E 17–28 4.0L ¶16151557
ISCJB I 16 11 18 47.9–1.2 52.54N–.04 160.18E–.06 3–7 4.0L
MOS I 16 11 18 50.4–1.3 52.63N 159.99E 20 4.1b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=4.7km az=142.2.
MOS Error ellipse: s-maj=15.9km s-min=7.2km az=94.0.
KRSC I 17 02 57 19.1–1.2 52.48N 160.44E 18–12 3.5L
¶17190367
KRSC Event type se.
KRSC I 19 17 02 36.6–.94 52.88N 160.19E 40–8 3.6L
¶17190571
KRSC Event type se.
KRSC I 23 05 22 40.6–1.5 52.83N 159.83E 63–10 3.7L
¶17190777
KRSC Event type se.
ISC I 26 02 11 24.1–1.9 51.49N–.07 161.27E–.07 35 84 2-5
MOS I 26 02 11 24.3–1.9 51.63N 161.11E 66 4.3b ¶17191001
KRSC I 26 02 11 24.4–1.8 51.63N 161.11E 66–20 4.2L
ISC Event type se.
MOS Error ellipse: s-maj=16.8km s-min=5.7km az=101.8.
KRSC Event type se.
KRSC I 26 04 48 45.9–1.2 53.97N 161.49E 40–18 3.8L
¶17191006
KRSC Event type se.
KRSC I 26 14 15 33.2–.53 52.70N 159.64E 54–5 3.7L
¶17191041
KRSC Event type se.
ISC I 28 06 15 55.7–1.8 52.24N–.04 160.18E–.05 1–10 3.8b 74 1-77
MOS I 28 06 15 55.9–1.2 52.07N 160.23E 18 4.3b ¶17191177
KRSC I 28 06 15 56.9–1.5 52.20N 160.17E 18–17 4.1L
IDC I 28 06 15 56.9–1.3 52.57N 160.18E 0 4.0,3.8
ISCJB I 28 06 15 57.2–1.1 52.20N–.04 160.18E–.06 15–7 3.9b,3.6s
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
KRSC I 28 21 46 25.0–1.4 52.14N 160.35E 19–13 3.8L
¶17191216
KRSC Event type se.
KRSC II 02 21 17 01.3–2.1 51.33N 160.74E 80–30 3.6L
¶17191557
KRSC Event type se.
ISC II 07 10 31 14.5–2.4 52.86N–.05 162.55E–.04 3–15 3.7b 80 2-80
KRSC II 07 10 31 14.7–2.1 52.69N 162.68E 68–23 3.9L ¶16013098
IDC II 07 10 31 14.6–1.1 52.93N 162.55E 0 4.5L,3.9
MOS II 07 10 31 18.7–1.5 52.78N 162.48E 59 4.1b,3.9
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=30.1km s-min=19.5km az=17.0.
MOS Error ellipse: s-maj=10.0km s-min=6.0km az=111.6.
KRSC II 07 16 46 10.5–.73 54.77N 163.12E 40–21 3.7L
¶16013099
KRSC Event type se.
ISC II 11 19 30 00.5–2.1 52.69N–.06 160.83E–.07 9–11 4.0b 52 1-69
NEIC II 11 19 29 55.8–2.1 51.96N 161.04E 10 4.3b ¶16022711
IDC II 11 19 29 55.0–3.6 52.06N 160.98E 0 4.0,3.9b
MOS II 11 19 29 58.1–1.9 52.51N 161.23E 17 4.4b,3.9b
KRSC II 11 19 30 04.0–.95 52.79N 160.67E 13–7 3.8L,3.9b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=54.3km s-min=21.9km az=187.0.
IDC Error ellipse: s-maj=84.9km s-min=35.8km az=179.0.
MOS Error ellipse: s-maj=15.6km s-min=6.8km az=126.6.
KRSC Event type se.
KRSC II 17 06 38 53.1–1.6 52.80N 162.91E 70–31 3.6L
¶16033439
KRSC Event type se.
KRSC II 21 18 53 11.5–2.1 51.62N 161.22E 50–24 3.5L
¶16117317
KRSC Event type se.
KRSC II 22 04 29 56.6–.94 51.67N 159.08E 74–14 4.0L
¶16153239
KRSC Event type se.
ISC II 23 03 23 01.8–.97 51.77N–.05 159.08E–.06 60–9 3.6b 75 1-72
KRSC II 23 03 22 59.5–1.9 51.83N 159.06E 71–19 4.1L ¶16157609
MOS II 23 03 23 00.6–.65 51.78N 158.93E 72 4.1b
IDC II 23 03 23 00.9–6.2 51.54N 158.53E 72–46 3.6,3.5
ISCJB II 23 03 23 01.1–.73 51.82N–.05 159.00E–.10 68–8 3.5b,3.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC II 23 08 12 23.9–.77 53.75N–.04 163.49E–.04 35 3.4b 108 2-81
IDC II 23 08 12 19.7–.98 53.81N 163.51E 0 3.5,3.4 ¶16157610
KRSC II 23 08 12 20.4–1.7 53.79N 163.35E 47–24 4.0L,3.4
ISCJB II 23 08 12 22.6–.52 53.79N–.03 163.33E–.05 33 3.2b,3.4
MOS II 23 08 12 22.9–.95 53.79N 163.40E 39 4.2b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=18.7km az=148.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=41.2.
MOS Error ellipse: s-maj=8.6km s-min=6.3km az=103.1.
KRSC II 24 11 36 12.9–.97 53.57N 161.53E 46–23 3.7L
¶16157625
KRSC Event type se.
ISC II 28 09 36 27.8–.78 52.67N–.04 159.54E–.05 71–6 4.6b 288 1-144
KRSC II 28 09 36 21.1–2.0 52.48N 160.14E 40–24 5.1L ¶16161192
MOS II 28 09 36 24.4–1.2 52.62N 159.73E 59 4.8b
ISCJB II 28 09 36 26.3–.51 52.69N–.04 159.64E–.07 70–3 4.5b
NEIC II 28 09 36 28.1–.65 52.84N 159.58E 69–5 4.7b
IDC II 28 09 36 28.9–1.1 52.81N 159.64E 80–7 4.3,4.1
BJI II 28 09 36 31.0 53.10N 158.40E 69 4.9b,4.5b
ISC Event type fe.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=8.2km s-min=4.0km az=93.5. Felt (III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=3.3km az=40.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=127.0. Felt [III] at Petropavlovsk-Kamchatskiy.
IDC Error ellipse: s-maj=11.7km s-min=9.4km az=149.0.
ISC II 28 12 57 50.0–1.2 52.71N–.04 161.07E–.04 7–6 4.0b 75 1-80
KRSC II 28 12 57 50.8–1.6 52.66N 161.20E 16–24 4.2L ¶16168951
IDC II 28 12 57 50.1–.92 52.80N 160.97E 0 4.0,3.8
ISCJB II 28 12 57 52.3–1.1 52.60N–.04 161.17E–.05 26–8 3.9b,3.8
MOS II 28 12 57 55.8–1.8 52.76N 160.73E 58 4.3b,3.8
NEIC II 28 12 57 55.8–2.3 52.81N 160.87E 39–20 4.0b,3.8
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=18.3km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=168.3.
MOS Error ellipse: s-maj=9.0km s-min=5.5km az=100.1.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=14.5km az=119.0.
ISC II 28 18 19 50.5–1.5 53.66N–.05 161.77E–.07 41–14 3.7b 111 1-82
IDC II 28 18 19 46.2–1.3 53.98N 161.46E 0 3.9,3.8 ¶16168957
KRSC II 28 18 19 47.7–1.1 53.66N 161.82E 43–24 4.0L,3.8
ISCJB II 28 18 19 49.4–.68 53.65N–.03 161.83E–.07 44–7 3.8s,3.7b
MOS II 28 18 19 49.8–.76 53.67N 161.76E 40 4.0b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=16.8km az=94.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=3.3km az=31.0.
MOS Error ellipse: s-maj=9.4km s-min=4.9km az=92.3.
ISC III 01 02 02 16.3–2.4 53.11N–.10 161.27E–.07 4–12 3.6b 31 1-70
IDC III 01 02 02 13.4–2.5 52.43N 161.17E 0 3.7,3.6 ¶16176410
KRSC III 01 02 02 17.6–1.6 52.86N 161.23E 15–16 3.7L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=76.9km s-min=24.5km az=5.0.
KRSC Event type se.
KRSC III 01 02 54 42.4–.97 52.76N 161.21E 16–12 3.7L
¶16176411
KRSC Event type se.
ISC III 03 16 07 06.9–1.2 53.61N–.04 161.08E–.04 45–11 3.6b 104 1-80
KRSC III 03 16 07 04.5–1.3 53.61N 161.19E 46–23 4.1L ¶16194014
MOS III 03 16 07 06.5–.51 53.61N 161.09E 48 4.4b
ISCJB III 03 16 07 06.7–.59 53.60N–.03 161.07E–.08 55–6 3.7b
IDC III 03 16 07 10.8–2.8 53.83N 160.73E 74–24 3.9s,3.9
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=11.8km s-min=5.9km az=85.9.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=3.1km az=28.5.
IDC Error ellipse: s-maj=25.4km s-min=19.0km az=118.0.
ISC III 04 09 24 07.1–.56 52.70N–.04 160.89E–.03 25–3 4.8b,4.3s 478 1-112
KRSC III 04 09 24 03.5–1.7 52.66N 161.29E 16–37 5.0L,4.3s ¶16194037
IDC III 04 09 24 03.6–.53 52.80N 160.84E 0 4.5,4.5
BJI III 04 09 24 04.1 53.18N 160.61E 11 5.0b,4.8s
MOS III 04 09 24 05.0–1.3 52.62N 161.01E 24 5.0b,4.0s
ISCJB III 04 09 24 06.8–.16 52.64N–.02 160.91E–.03 33 4.8b,4.3s
NEIC III 04 09 24 10.4–.57 52.78N 160.76E 47–5 4.7b,4.3s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=10.5km az=151.0.
MOS Error ellipse: s-maj=5.8km s-min=3.5km az=103.9.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=163.3.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=2.9km az=168.0.
ISC III 04 09 27 58.5–1.6 52.83N–.05 161.03E–.05 14–9 3.9b 93 1-80
MOS III 04 09 27 56.7–1.4 52.53N 161.25E 20 4.4b ¶16194038
IDC III 04 09 27 56.5–.77 52.81N 160.85E 0 4.1,4.0L
KRSC III 04 09 27 57.8–2.6 52.68N 161.10E 15–11 4.3L,4.0L
NEIC III 04 09 28 02.6–1.4 52.80N 160.82E 43–12 4.2b,4.0L
ISC Event type se.
MOS Error ellipse: s-maj=9.7km s-min=6.0km az=107.4.
IDC Error ellipse: s-maj=22.1km s-min=16.0km az=151.0.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.4km az=129.0.
ISC III 04 10 55 23.9–.47 52.78N–.04 160.97E–.03 27–2 4.9b,4.4s 846 1-145
KRSC III 04 10 55 18.6–2.5 52.63N 161.36E 17–33 5.1L,4.4s ¶16194041
BJI III 04 10 55 18.9 53.14N 160.76E 8 5.0b,4.9s
ISCJB III 04 10 55 24.6–.34 52.75N–.02 160.96E–.02 47–2 4.9b,4.4s
MOS III 04 10 55 24.5–1.1 52.74N 160.87E 47 5.1b,4.2s
NEIC III 04 10 55 26.7–.50 52.78N 160.82E 48–4 4.8b,4.2s
IDC III 04 10 55 26.1–1.9 52.76N 160.85E 44–17 4.7,4.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.1km az=160.3.
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=98.5.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.3km az=168.0.
IDC Error ellipse: s-maj=12.5km s-min=8.4km az=156.0.
KRSC III 04 10 59 21.3–.81 52.62N 161.10E 7–6 3.8L
¶16293244
KRSC Event type se.
ISC III 05 00 31 10.1–.43 52.77N–.04 160.84E–.03 29–2 5.0b,4.8s 1221 1-145
KRSC III 05 00 31 04.9–2.3 52.63N 161.29E 16–27 5.1L,4.8s ¶16195223
IDC III 05 00 31 05.7–.39 52.80N 160.80E 0 4.8,4.8
BJI III 05 00 31 05.6 53.07N 160.41E 5 5.2s,5.1b
GCMT III 05 00 31 08.1–.60 52.69N 160.91E 21–1 4.9W,5.1b
ISCJB III 05 00 31 09.2–.35 52.64N–.02 161.06E–.02 40–2 5.0b,4.8s
MOS III 05 00 31 10.3–1.2 52.70N 160.80E 45 5.2b,4.2s
NEIC III 05 00 31 13.1–.58 52.80N 160.69E 50–5 4.9b,4.2s
ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=8.1km az=163.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c41; s58,c75; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.33±.16 $M_{\theta\theta}$-0.78±.14; $M_{\phi\phi}$-1.55±.12; $M_{r\theta}$0.85±.27; $M_{\theta\phi}$-1.13±.09; $M_{\phi r}$-0.10±.22; Best double couple: NP1:ϕ_s52.00000°,δ52.00000°,λ110.00000°. NP2:ϕ_s200.00000°,δ42.00000°,λ66.00000°. Principal axes: T 2.5810,Plg73.0000°,Azm19.0000°; N -0.1850,Plg16.0000°,Azm219.0000°; P -2.3980,Plg5.0000°,Azm127.0000° M_o2.48900×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=1.9km az=171.4.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=99.8. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=2.7km az=168.0. Felt [II] at Petropavlovsk-Kamchatskiy.
ISC III 05 00 35 32.8–.39 52.63N–.04 160.90E–.03 27–2 5.0s,5.0b 774 1-145
KRSC III 05 00 35 28.0–2.1 52.58N 161.34E 16–29 5.4L,5.0b ¶16195224
IDC III 05 00 35 28.9–.41 52.77N 160.82E 0 4.8,4.8
BJI III 05 00 35 29.6 53.19N 160.50E 10 5.3s,5.2b
ISCJB III 05 00 35 32.4–.13 52.64N–.02 160.88E–.02 32 5.0b,5.0s
MOS III 05 00 35 33.8–1.2 52.66N 160.78E 46 5.3b,4.8s
NEIC III 05 00 35 35.9–.58 52.75N 160.74E 46–5 5.0b,4.8s
GCMT III 05 00 35 35.9–.20 52.66N 161.28E 18–0 5.2W,4.8s
ISC Event type fe.

KRSC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=8.4km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=159.8.
MOS Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=99.2. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=2.7km az=167.0. Felt [III] at Petropavlovsk-Kamchatskiy.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c127; s113,c211; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.72±.02 $M_{\theta\theta}$-0.18±.01; $M_{\phi\phi}$-0.53±.01; $M_{r\theta}$0.37±.03; $M_{\theta\phi}$-0.36±.01; $M_{\phi r}$0.35±.03; Best double couple: NP1:ϕ_s40.00000°,δ62.00000°,λ98.00000°. NP2:ϕ_s203.00000°,δ29.00000°,λ75.00000°. Principal axes: T 0.8890,Plg71.0000°,Azm329.0000°; N 0.0260,Plg7.0000°,Azm217.0000°; P -0.9150,Plg17.0000°,Azm124.0000° $M_0$0.90200×10^{17}

ISC III 05 01 19 52.9–1.8 52.83N–.06 161.12E–.05 7–10 3.6b 70 1-80
IDC III 05 01 19 52.0–.83 52.72N 160.93E 0 3.9,3.7 **¶16293246**
KRSC III 05 01 19 53.0–3.1 52.66N 161.20E 16–28 4.1L,3.7
MOS III 05 01 19 55.4–.84 52.53N 161.11E 45 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=17.2km az=155.0.
KRSC Event type se.
MOS Error ellipse: s-maj=10.9km s-min=5.7km az=102.2.

ISC III 05 13 35 48.6–1.4 53.66N–.03 161.06E–.03 5–8 3.9b 118 1-86
KRSC III 05 13 35 51.2–1.4 53.51N 161.11E 45–26 4.6L **¶16293249**
MOS III 05 13 35 53.1–.95 53.55N 160.94E 50 4.2b
IDC III 05 13 35 55.6–2.2 53.96N 160.60E 47–28 3.9,3.9
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=10.0km s-min=5.5km az=76.1.
IDC Error ellipse: s-maj=29.8km s-min=15.2km az=173.0.

ISC III 05 14 07 30.9–.46 52.88N–.03 160.80E–.03 15–2 4.9b,4.3s 826 1-149
KRSC III 05 14 07 27.4–2.4 52.64N 161.25E 17–28 4.9L,4.3s **¶16196380**
IDC III 05 14 07 28.5–.41 52.82N 160.78E 0 4.8,4.8
BJI III 05 14 07 28.5 53.17N 160.61E 12 5.0b,4.8b
ISCJB III 05 14 07 30.3–.11 52.69N–.02 160.95E–.02 24 4.9b,4.3s
MOS III 05 14 07 32.9–1.3 52.75N 160.74E 43 5.1b,4.1s
NEIC III 05 14 07 34.0–.18 52.84N 160.69E 35 4.8b,4.1s
ISC Event type fe.
KRSC Event type se.
IDC Error ellipse: s-maj=10.1km s-min=9.3km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=170.2.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=100.4. Felt (II-III) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.0km az=168.0. Felt [III] at Petropavlovsk-Kamchatskiy.

KRSC III 06 05 46 05.1–1.8 52.71N 160.88E 5–16 3.7L
¶16294090

KRSC Event type se.

ISC III 06 08 47 08.6–1.9 52.89N–.06 161.44E–.06 2–11 3.4b 59 1-64
IDC III 06 08 47 10.2–2.4 52.65N 160.99E 0 3.6,3.4b **¶16294092**
MOS III 06 08 47 11.7–.57 52.54N 161.33E 17 4.2b,3.4b
KRSC III 06 08 47 13.0–1.5 52.71N 161.19E 18–18 3.8L,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=61.6km s-min=28.7km az=142.0.
MOS Error ellipse: s-maj=10.6km s-min=6.4km az=112.7.
KRSC Event type se.

ISC III 06 11 18 27.4–2.2 52.62N–.07 161.10E–.05 5–13 3.6b 29 1-70
KRSC III 06 11 18 26.5–1.8 52.60N 161.30E 16–23 3.6L **¶16294093**
IDC III 06 11 18 26.8–1.9 52.59N 160.91E 0 3.6,3.5
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=47.3km s-min=23.0km az=177.0.

ISC III 06 13 09 32.2–.58 52.72N–.04 160.81E–.03 45–4 5.0b,4.7s 856 1-147
KRSC III 06 13 09 23.8–2.1 52.53N 161.35E 16–28 5.2L,4.7s **¶16196723**
IDC III 06 13 09 26.2–.39 52.80N 160.69E 0 4.8,4.7
BJI III 06 13 09 30.7 53.09N 160.41E 39 5.1b,4.9b
MOS III 06 13 09 31.1–1.2 52.76N 160.67E 48 5.1b,4.2s
ISCJB III 06 13 09 31.3–.34 52.75N–.02 160.80E–.02 49–2 5.0b,4.7s
NEIC III 06 13 09 33.9–.55 52.85N 160.62E 54–5 4.9b,4.7s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=8.1km az=161.0.
MOS Error ellipse: s-maj=5.5km s-min=3.4km az=97.8.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.1km az=161.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=2.6km az=161.0.

ISC III 06 13 35 15.7–.57 52.80N–.04 160.86E–.04 45–4 4.9b,4.7s 571 1-144
KRSC III 06 13 35 09.0–1.6 52.66N 161.21E 17–20 5.2L,4.7s **¶16196724**
IDC III 06 13 35 09.0–.45 52.78N 160.81E 0 4.7,4.6
BJI III 06 13 35 13.9 53.03N 160.42E 39 5.0b,4.9s
MOS III 06 13 35 13.2–1.3 52.68N 160.71E 41 5.0b,4.6s
ISCJB III 06 13 35 14.6–.39 52.75N–.03 160.82E–.03 49–2 4.9b,4.8s
NEIC III 06 13 35 16.3–.60 52.82N 160.71E 48–5 4.8b,4.8s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=12.1km s-min=9.3km az=164.0.
MOS Error ellipse: s-maj=5.8km s-min=3.3km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.7km az=149.4.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.0km az=166.0.

KRSC III 06 13 46 44.1–1.5 52.66N 161.21E 6–13 3.8L
¶16294094

KRSC Event type se.

ISC III 06 15 19 08.0–.54 52.68N–.04 160.93E–.03 23–3 4.7b 404 1-143
BJI III 06 15 19 03.6 53.07N 161.01E 20 5.3s,5.1 **¶16196733**
KRSC III 06 15 19 04.6–1.7 52.66N 161.17E 16–23 4.7L,5.1
IDC III 06 15 19 04.8–.52 52.81N 160.72E 0 4.7,4.7s
ISCJB III 06 15 19 05.4–.16 52.58N–.02 160.99E–.03 19 4.6b,4.7s
NEIC III 06 15 19 07.8–.21 52.87N 160.74E 19 4.7b,4.7s
MOS III 06 15 19 08.5–1.4 52.70N 160.79E 42 4.8b,4.2s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=9.6km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=174.3.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=3.3km az=170.0.
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=96.6.

ISC III 06 15 22 06.0–1.7 52.85N–.05 161.00E–.05 10–10 4.0b 75 1-87
MOS III 06 15 22 04.5–1.9 52.71N 161.29E 14 4.2b **¶16294095**
IDC III 06 15 22 04.6–.81 52.89N 160.92E 0 4.1,3.9
KRSC III 06 15 22 06.1–1.8 52.72N 161.07E 16–17 4.4L,3.9
NEIC III 06 15 22 09.4–.43 52.84N 160.99E 35 4.1b,3.9
ISC Event type se.
MOS Error ellipse: s-maj=9.7km s-min=7.4km az=121.9.
IDC Error ellipse: s-maj=22.9km s-min=18.3km az=141.0.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.7km az=167.0.

KRSC III 06 15 50 16.6–2.1 52.64N 161.43E 17–26 3.7L
¶603339291

KRSC Event type se.

ISC III 06 15 53 23.3–1.8 52.73N–.05 161.13E–.04 5–10 3.6b 66 1-70
KRSC III 06 15 53 21.6–1.9 52.60N 161.37E 16–26 3.8L **¶16294096**
ISCJB III 06 15 53 23.5–1.4 52.59N–.06 161.26E–.06 15–10 3.5b
IDC III 06 15 53 23.9–2.6 52.88N 161.04E 0 3.6,3.5
MOS III 06 15 53 26.8–.75 52.69N 161.12E 42 4.2b,3.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.3km az=172.8.
IDC Error ellipse: s-maj=76.4km s-min=20.0km az=177.0.
MOS Error ellipse: s-maj=12.6km s-min=8.2km az=125.8.

KRSC III 06 15 56 15.1–1.7 52.70N 161.46E 16–20 3.5L
¶17193359

KRSC Event type se.

KRSC III 06 15 57 44.1–2.2 52.65N 161.42E 17–26 3.6L
¶16294097

KRSC Event type se.

ISC III 06 16 24 11.5–1.4 52.81N–.05 161.09E–.04 7–7 3.6b 84 1-80
KRSC III 06 16 24 09.8–2.4 52.56N 161.30E 16–35 4.2L **¶16294099**
IDC III 06 16 24 11.0–.80 52.76N 160.82E 0 3.9,3.7
MOS III 06 16 24 14.4–1.6 52.65N 161.03E 48 4.3b,3.7
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=16.3km az=155.0.
MOS Error ellipse: s-maj=10.2km s-min=6.0km az=98.6.

ISC III 07 08 47 23.5–1.9 52.58N–.05 161.09E–.06 4–11 4.0b,2.9s 80 1-70
KRSC III 07 08 47 23.3–2.1 52.65N 161.33E 15–10 4.2L,2.9s **¶16293253**
MOS III 07 08 47 27.1–1.1 52.63N 161.13E 41 4.2b,2.9s
IDC III 07 08 47 32.0–3.9 52.93N 160.73E 52–33 3.9,3.8
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=10.7km s-min=6.2km az=100.3.
IDC Error ellipse: s-maj=31.9km s-min=25.9km az=159.0.

ISC III 07 11 45 11.6–1.8 52.64N–.05 161.16E–.04 31–12 4.2b,3.4s 120 1-80
KRSC III 07 11 45 06.8–2.2 52.60N 161.39E 16–10 4.3L,3.4s **¶16202805**
MOS III 07 11 45 09.7–1.4 52.55N 161.19E 33 4.5b,3.4s
ISCJB III 07 11 45 11.2–.72 52.61N–.04 161.20E–.06 45–5 4.1b,3.5s
IDC III 07 11 45 14.9–2.9 52.75N 160.84E 50–27 3.9,3.9
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=8.3km s-min=5.2km az=103.8.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.5km az=145.1.
IDC Error ellipse: s-maj=20.1km s-min=16.7km az=148.0.

ISC III 08 02 14 19.2–2.2 52.77N–.08 161.13E–.07 12–11 3.4b 31 1-61
KRSC III 08 02 14 18.6–3.0 52.49N 161.22E 16–29 3.7L **¶16298663**
IDC III 08 02 14 24.3–7.4 52.22N 160.82E 62–48 3.6,3.4
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=59.3km s-min=49.6km az=169.0.

KRSC III 08 07 52 25.3–2.1 52.65N 162.78E 40–25 3.6L
¶16298665

KRSC Event type se.

ISC III 08 10 46 25.6–.43 52.77N–.03 160.88E–.03 23–2 5.0b,4.3s 650 1-149
BJI III 08 10 46 21.6 52.70N 160.80E 14 4.9b,4.8b **¶16268974**
IDC III 08 10 46 22.2–.42 52.78N 160.71E 0 4.8,4.8
KRSC III 08 10 46 22.4–2.0 52.66N 161.11E 15–10 5.1L,4.8
MOS III 08 10 46 22.4–1.4 52.59N 160.81E 17 5.1b,4.2s
ISCJB III 08 10 46 24.5–.14 52.64N–.02 160.83E–.03 26 4.9b,4.3s
NEIC III 08 10 46 29.5–.60 52.82N 160.62E 49–5 4.8b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=6.0.
KRSC Event type se.
MOS Error ellipse: s-maj=5.5km s-min=3.2km az=100.1.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.1km az=150.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.0km az=164.0.

ISC III 08 12 03 08.1–1.8 52.78N–.05 161.11E–.04 1–10 3.6b 85 1-80
KRSC III 08 12 03 08.3–2.2 52.53N 161.17E 16–27 4.1L **¶16298668**
IDC III 08 12 03 08.2–1.2 52.64N 160.60E 0 3.7,3.6b
MOS III 08 12 03 09.5–.81 52.46N 161.06E 17 4.2b,3.6b
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=31.7km s-min=25.3km az=142.0.
MOS Error ellipse: s-maj=10.9km s-min=5.8km az=101.0.

ISC III 08 12 11 49.5–1.9 52.63N–.05 161.32E–.05 5–11 47 1-75
IDC III 08 12 11 51.0–3.9 52.39N 161.06E 0 3.7,3.7b **¶16298669**
KRSC III 08 12 11 52.9–2.2 52.57N 161.19E 16–27 3.8L,3.7b
ISCJB III 08 12 11 54.3–1.0 52.62N–.04 160.99E–.05 2–6 3.8s,3.8b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.

ISC III 08 12 14 39.6–2.1 52.65N–.08 161.16E–.05 11–11 31 1-70
KRSC III 08 12 14 39.7–2.0 52.62N 161.20E 15–22 3.7L **¶16298670**
IDC III 08 12 14 40.6–2.3 51.25N 159.12E 0 3.4,3.2
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=57.7km s-min=30.5km az=37.0.

KRSC III 08 15 04 14.6–2.9 52.53N 161.13E 16–30 3.8L
¶16298671

KRSC Event type se.

ISC III 08 17 17 42.0–1.7 52.68N–.05 161.10E–.04 1–10 3.4b 69 1-70
KRSC III 08 17 17 42.8–2.8 52.55N 161.18E 16–37 3.8L **¶16298672**
IDC III 08 17 17 42.4–1.3 52.68N 160.95E 0 3.7,3.6
MOS III 08 17 17 46.1–.83 52.48N 161.01E 41 4.0b,3.6
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=36.7km s-min=21.8km az=160.0.
MOS Error ellipse: s-maj=11.3km s-min=6.1km az=105.6.

ISC III 08 20 48 07.7–.54 52.57N–.03 160.83E–.03 24–3 4.8b,4.4s 420 1-96
KRSC III 08 20 48 04.2–2.7 52.53N 161.16E 15–10 5.1L,4.4s **¶16293262**
IDC III 08 20 48 04.7–.57 52.80N 160.62E 0 4.3,4.3
MOS III 08 20 48 05.6–1.5 52.47N 160.95E 25 4.9b,4.2s
BJI III 08 20 48 05.2 52.94N 160.94E 31 5.0b,4.8s
ISCJB III 08 20 48 06.7–.18 52.44N–.02 160.91E–.03 33 4.7b,4.4s
NEIC III 08 20 48 11.5–.66 52.71N 160.64E 52–6 4.8b,4.4s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=10.9km az=150.0.
MOS Error ellipse: s-maj=5.8km s-min=3.5km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.6km az=143.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.9km az=158.0.

ISC III 08 21 41 31.3–2.3 52.77N–.08 161.09E–.07 8–12 3.9b 31 1-69
KRSC III 08 21 41 30.7–2.2 52.56N 161.22E 16–26 3.7L **¶16298675**
IDC III 08 21 41 45.6–5.8 53.08N 159.87E 85–26 3.7s,3.7
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=88.5km s-min=38.4km az=128.0.

ISC III 08 22 42 38.9–.41 52.72N–.03 160.86E–.03 27–2 5.1s,5.0b 978 1-157
KRSC III 08 22 42 33.3–1.3 52.52N 161.30E 15–10 5.3L,5.0b **¶16293267**
BJI III 08 22 42 35.1 53.04N 160.70E 16 5.4s,5.2
ISCJB III 08 22 42 39.5–.36 52.67N–.02 160.87E–.02 44–2 5.0s,5.0b
IDC III 08 22 42 39.9–3.4 52.75N 160.78E 33–25 4.8,4.8s
MOS III 08 22 42 39.9–1.2 52.71N 160.72E 26 5.3b,5.0s
NEIC III 08 22 42 41.5–.58 52.78N 160.66E 43–5 5.0b,5.0s
GCMT III 08 22 42 41.5–.20 52.64N 161.06E 21–0 5.3W,5.0s
ISC Event type fe.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.1km az=167.1.
IDC Error ellipse: s-maj=13.5km s-min=9.1km az=151.0.
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=3.2km az=100.0. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=2.6km az=168.0. Felt [II] at Petropavlovsk-Kamchatskiy.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c161; s116,c210; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94±.02 $M_{\theta\theta}$-0.29±.01; $M_{\phi\phi}$-0.64±.01; $M_{r\theta}$0.39±.03; $M_{\theta\phi}$-0.51±.01; $M_{\phi r}$0.46±.02; Best double couple: NP1:ϕ_s38.00000°,δ61.00000°,λ93.00000°. NP2:ϕ_s212.00000°,δ29.00000°,λ85.00000°. Principal axes: T 1.1070,Plg74.0000°,Azm315.0000°; N 0.0650,Plg2.0000°,Azm217.0000°; P -1.1720,Plg16.0000°,Azm126.0000° $M_0$1.13900×10^{17}

ISC III 09 01 47 44.8–.82 52.84N–.04 160.86E–.03 16–4 4.5b,3.7s 307 1-88
ISCJB III 09 01 47 41.2–.22 52.50N–.02 161.02E–.04 10 4.5b,3.7s **¶16293270**
IDC III 09 01 47 42.2–.60 52.78N 160.72E 0 4.4,4.3L
KRSC III 09 01 47 42.6–1.7 52.66N 161.17E 15–10 4.7L,4.3L
MOS III 09 01 47 45.4–1.4 52.56N 160.82E 21 4.7b,4.3L
BJI III 09 01 47 46.1 53.33N 160.58E 32 4.9b,4.5b
NEIC III 09 01 47 49.3–.71 52.83N 160.68E 51–6 4.5b,4.5b

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.9km az=152.2.
IDC Error ellipse: s-maj=18.0km s-min=11.1km az=158.0.
KRSC Event type se.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=103.6.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.3km az=164.0.
ISC III 09 03 38 07.7–2.1 52.79N–.08 160.98E–.06 11–11 3.5b 34 1-70
IDC III 09 03 38 06.0–2.2 52.79N 161.01E 0 3.7,3.5 ¶16303942
KRSC III 09 03 38 08.6–2.1 52.65N 160.96E 16–22 3.8L,3.5
ISCJB III 09 03 38 09.5–1.6 52.58N–.07 160.93E–.07 21–11 3.5b,3.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC III 10 06 42 47.2–1.4 54.96N–.03 163.70E–.03 37–2 3.5b 95 1-68
KRSC III 10 06 42 45.0–1.2 54.93N 163.62E 55–23 4.1L ¶16311591
MOS III 10 06 42 46.4–.66 54.99N 163.73E 58 4.4b
ISCJB III 10 06 42 46.6–.52 54.92N–.02 163.65E–.05 55–9 3.7b,3.1s
IDC III 10 06 42 48.6–1.4 55.68N 162.24E 0 3.8,3.6
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=10.4km s-min=8.7km az=109.5.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=13.5.
IDC Error ellipse: s-maj=40.7km s-min=22.8km az=155.0.
KRSC III 10 12 24 25.1–2.0 55.31N 163.36E 2–37 3.5L
¶16311592
KRSC Event type se.
ISC III 10 15 38 33.1–2.2 52.47N–.05 160.97E–.09 11–10 49 1-61
IDC III 10 15 38 29.2–3.9 52.28N 161.25E 0 3.9,3.8 ¶16311593
KRSC III 10 15 38 33.8–1.8 52.42N 160.97E 16–30 3.8L,3.8
MOS III 10 15 38 33.7–1.3 52.42N 160.97E 16 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=75.4km s-min=43.7km az=175.0.
KRSC Event type se.
MOS Error ellipse: s-maj=21.3km s-min=9.1km az=42.6.
KRSC III 11 13 34 07.3–1.3 52.63N 161.09E 15–10 3.5L
¶16311595
KRSC Event type se.
KRSC III 11 13 37 18.9–.90 52.12N 160.69E 18–6 3.5L
¶16311596
KRSC Event type se.
KRSC III 12 02 30 42.5–1.8 53.23N 163.01E 40–25 3.6L
¶16311598
KRSC Event type se.
ISC III 12 04 12 32.9–1.6 52.40N–.05 161.22E–.04 6–9 4.4b 91 1-86
IDC III 12 04 12 30.5–4.8 52.11N 161.52E 0 4.4,4.4s ¶16311599
MOS III 12 04 12 32.2–.87 52.28N 161.43E 15 4.6b,4.4s
KRSC III 12 04 12 35.5–1.9 52.65N 161.25E 16–10 4.3L,4.4s
NEIC III 12 04 12 36.8–1.1 52.27N 161.29E 35 4.5b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=112.5km s-min=29.1km az=172.0.
MOS Error ellipse: s-maj=11.2km s-min=5.4km az=104.6.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=22.9km s-min=12.8km az=154.0.
ISC III 12 04 58 45.4–2.8 52.60N–.05 161.18E–.04 2–17 4.7b 136 1-87
MOS III 12 04 58 44.6–1.0 52.40N 161.37E 21 5.0b ¶16308532
ISCJB III 12 04 58 45.3–.39 52.58N–.04 161.22E–.04 10 4.5b
KRSC III 12 04 58 45.8–1.8 52.66N 161.26E 15–10 4.5L
IDC III 12 04 58 54.8–3.0 52.88N 160.65E 58–26 4.3,4.2
NEIC III 12 04 58 54.3–1.3 52.98N 160.68E 52–10 4.7b,4.2
ISC Event type se.
MOS Error ellipse: s-maj=10.1km s-min=5.5km az=102.9.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.6km az=177.8.
KRSC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=16.3km az=176.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.7km az=157.0.
KRSC III 13 02 18 47.9–1.8 53.38N 163.13E 40–25 3.6L
¶16314724
KRSC Event type se.
ISC III 14 13 49 42.9–1.2 53.43N–.04 161.99E–.04 2–7 4.0b 100 1-81
KRSC III 14 13 49 45.7–.97 53.39N 161.94E 48–21 4.0L ¶16320487
MOS III 14 13 49 46.9–.77 53.32N 161.99E 41 4.5b
IDC III 14 13 49 48.4–.97 54.06N 161.06E 0 4.0,3.8
NEIC III 14 13 49 49.5–.77 53.94N 161.17E 10 4.0b,3.8
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=8.1km s-min=4.9km az=96.3.
IDC Error ellipse: s-maj=21.8km s-min=16.8km az=105.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=11.3km az=124.0.
KRSC III 14 18 43 39.0–.74 53.39N 161.77E 29–13 3.8L
¶16320489
KRSC Event type se.
KRSC III 15 13 51 06.4–1.0 52.02N 160.65E 50–16 3.7L
¶17196296
KRSC Event type se.
KRSC III 16 18 40 10.2–1.6 53.55N 163.04E 42–25 4.0L
MOS III 16 18 40 10.1–2.4 53.55N 163.03E 42 4.2b ¶16334554
KRSC Event type se.
MOS Error ellipse: s-maj=11.1km s-min=7.2km az=105.2.
ISC III 17 08 28 16.4–.40 52.59N–.04 160.65E–.04 24 5.1s,5.0b 278 1-89
MOS III 17 08 28 09.8–1.1 52.16N 161.07E 16 5.3b,4.5s ¶16329775
KRSC III 17 08 28 09.7–3.1 52.29N 161.22E 16–35 5.3L,4.5s
ISCJB III 17 08 28 14.0–.25 52.42N–.03 160.77E–.04 24 5.1s,5.0b
IDC III 17 08 28 20.3–2.2 52.66N 160.50E 53–19 4.9,4.9s
NEIC III 17 08 28 20.4–.81 52.65N 160.51E 53–6 5.1b,4.9s
GCMT III 17 08 28 20.4–.30 52.37N 160.77E 12–2 5.3W,4.9s
BJI III 17 08 28 25.4 53.09N 159.42E 76 5.3b,5.3s
ISC Event type se.
MOS Event type fe. Error ellipse: s-maj=8.7km s-min=4.7km az=107.9. Felt (II) at Petropavlovsk-Kamchatskiy. Moment Tensor Solution.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.4km az=143.5.
IDC Error ellipse: s-maj=13.6km s-min=10.8km az=140.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=153.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s14,c17; s76,c112; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.51±.07 $M_{\theta\theta}$-0.28±.04; $M_{\phi\phi}$-0.22±.04; $M_{r\theta}$0.82±.19; $M_{\theta\phi}$-0.34±.02; $M_{\phi r}$0.39±.12; Best double couple: NP1:ϕ_s62.00000°,δ75.00000°,λ99.00000°. NP2:ϕ_s210.00000°,δ18.00000°,λ59.00000°. Principal axes: T 1.0400,Plg59.0000°,Azm345.0000°; N 0.0500,Plg9.0000°,Azm240.0000°; P -1.0900,Plg29.0000°,Azm145.0000° $M_0$1.06500×10^{17}
KRSC III 17 13 47 54.9–1.4 52.54N 160.78E 15–9 3.7L
¶16338014
KRSC Event type se.
KRSC III 17 15 20 29.4–1.1 52.44N 160.71E 6–8 3.8L
¶16338015
KRSC Event type se.
KRSC III 17 17 50 50.1–1.5 52.39N 160.87E 6–17 3.8L
¶16338016
KRSC Event type se.
KRSC III 17 19 00 57.2–1.1 52.31N 160.91E 6–5 3.7L
¶16338017
KRSC Event type se.
ISC III 17 21 37 44.5–1.2 52.24N–.06 160.59E–.05 19–3 4.1b 75 1-75
KRSC III 17 21 37 40.1–2.2 52.23N 161.14E 15–11 4.3L ¶16338018
MOS III 17 21 37 40.1–2.3 52.23N 161.14E 15 4.4b
IDC III 17 21 37 41.1–2.4 52.40N 160.93E 0 4.0,3.8
NEIC III 17 21 37 56.8–.74 52.88N 159.63E 79–5 4.1b,3.8
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=13.4km s-min=5.9km az=110.8.
IDC Error ellipse: s-maj=51.5km s-min=36.4km az=164.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.8km az=149.0.
KRSC III 17 21 39 04.2–1.4 52.29N 160.97E 15–10 3.9L
¶16338019
KRSC Event type se.
KRSC III 18 01 33 19.1–.98 52.40N 161.08E 15–7 3.7L
¶16339763
KRSC Event type se.
KRSC III 18 13 24 56.7–1.0 52.64N 161.59E 6–16 3.6L
¶16339764
KRSC Event type se.
KRSC III 18 15 29 13.8–.72 52.68N 161.70E 15–8 3.6L
¶16339765
KRSC Event type se.
ISC III 19 20 14 15.5–1.2 52.73N–.04 160.88E–.04 30–8 4.3b 199 1-87
MOS III 19 20 14 10.8–1.2 52.51N 161.08E 17 4.7b ¶16339536
KRSC III 19 20 14 10.8–2.1 52.65N 161.26E 15–11 4.5L
IDC III 19 20 14 11.6–.74 52.81N 160.83E 0 4.1,4.0
ISCJB III 19 20 14 15.1–.60 52.66N–.04 161.03E–.05 46–4 4.5s,4.2b
NEIC III 19 20 14 17.2–.80 52.79N 160.88E 42–6 4.5b,4.2b
BJI III 19 20 14 18.0 52.76N 160.61E 65 4.7b,4.3b
ISC Event type se.
MOS Error ellipse: s-maj=8.3km s-min=4.5km az=106.7.
KRSC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=14.6km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.1km az=147.1.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.5km az=171.0.
ISC III 20 07 24 04.6–.54 52.02N–.04 160.39E–.03 30–3 5.0s,4.8b 707 1-89
KRSC III 20 07 23 58.6–1.9 51.86N 161.00E 41–24 4.8L,4.8b ¶16339570
IDC III 20 07 23 59.4–.52 52.03N 160.55E 0 4.7,4.7s
MOS III 20 07 24 01.5–1.4 51.85N 160.53E 32 5.1b,5.1s
ISCJB III 20 07 24 04.3–.53 52.01N–.03 160.53E–.03 42–4 4.9s,4.7b
BJI III 20 07 24 05.4 52.56N 160.01E 33 5.3s,5.1b
NEIC III 20 07 24 07.0–.67 52.10N 160.34E 51–6 4.8b,5.1b
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.9km az=164.0.
MOS Error ellipse: s-maj=7.2km s-min=3.9km az=96.6.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=2.8km az=171.2.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=2.8km az=167.0.
KRSC III 20 20 08 04.7–1.4 52.67N 161.02E 10–15 3.5L
¶16341504
KRSC Event type se.
KRSC III 21 03 22 22.1–1.1 55.94N 163.34E 17–12 3.8L
¶16342622
KRSC Event type se.
ISC III 21 09 25 15.6–1.8 55.37N–.03 163.81E–.03 29–13 4.3b,3.6s 169 1-83
IDC III 21 09 25 11.9–.60 55.50N 163.62E 0 4.2,4.0 ¶16479949
KRSC III 21 09 25 12.3–1.5 55.31N 163.86E 16–38 4.8L,4.0
MOS III 21 09 25 12.3–1.3 55.45N 163.83E 15 4.5b,4.0
BJI III 21 09 25 12.0 55.50N 163.70E 30 4.6b,4.4b
ISCJB III 21 09 25 15.9–.41 55.36N–.03 163.78E–.04 47–3 4.3b,3.6s
NEIC III 21 09 25 17.3–1.1 55.44N 163.61E 39–11 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=167.0.
KRSC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=6.1km az=78.3.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.8km az=149.7.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.6km az=159.0.
KRSC III 21 09 31 18.8–1.2 55.30N 163.81E 16–39 3.7L
¶16342626
KRSC Event type se.
ISC III 24 03 10 07.5–1.5 52.59N–.04 161.00E–.04 9–8 3.8b 102 1-80
MOS III 24 03 10 07.4–1.6 52.23N 160.94E 17 4.4b ¶16363760
IDC III 24 03 10 07.8–.71 52.58N 160.58E 0 4.0,3.8
KRSC III 24 03 10 07.2–2.3 52.33N 161.05E 15–10 4.5L,3.8
ISC Event type se.
MOS Error ellipse: s-maj=8.8km s-min=4.6km az=100.8.
IDC Error ellipse: s-maj=19.7km s-min=14.9km az=146.0.
KRSC Event type se.
KRSC III 24 11 09 13.2–1.2 55.72N 163.58E 6–6 3.6L
¶16363762
KRSC Event type se.
ISC III 24 21 16 07.4–1.9 52.61N–.06 161.08E–.06 23–13 3.3b 74 1-80
MOS III 24 21 16 06.9–1.2 52.19N 160.75E 11 4.1b ¶16363765
IDC III 24 21 16 06.8–1.1 52.10N 160.29E 0 3.6,3.4b
KRSC III 24 21 16 12.9–1.9 52.71N 160.58E 10–8 4.0L,3.4b
ISC Event type se.
MOS Error ellipse: s-maj=16.0km s-min=5.3km az=102.4.
IDC Error ellipse: s-maj=32.3km s-min=21.3km az=46.0.
KRSC Event type se.
ISC III 25 07 11 34.3–1.7 52.45N–.04 160.78E–.04 6–10 3.9b 113 1-87
KRSC III 25 07 11 33.6–2.6 52.38N 160.91E 16–10 4.4L ¶16363913
MOS III 25 07 11 34.5–1.2 52.32N 160.79E 15 4.4b
ISCJB III 25 07 11 36.2–.99 52.35N–.03 160.71E–.05 21–7 3.8b,3.5s
IDC III 25 07 11 43.2–2.7 52.74N 160.13E 62–24 3.8,3.7
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=10.3km s-min=5.1km az=101.1.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=140.8.
IDC Error ellipse: s-maj=24.3km s-min=17.0km az=153.0.
ISC III 25 07 30 26.9–1.7 52.45N–.04 161.12E–.04 7–12 95 1-4
KRSC III 25 07 30 30.9–2.4 52.41N 160.88E 15–10 4.2L ¶16363914
MOS III 25 07 30 32.0–1.1 52.35N 160.79E 16 4.3b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=11.8km s-min=5.4km az=100.8.
ISC III 25 08 28 30.1–1.7 52.54N–.05 160.91E–.04 2–10 4.0b 85 1-61
IDC III 25 08 28 24.0–5.1 51.60N 161.07E 0 3.9,3.9 ¶16363917
MOS III 25 08 28 30.9–1.1 52.24N 160.83E 14 4.5b,3.9
KRSC III 25 08 28 32.1–2.9 52.43N 160.86E 15–10 4.0L,3.9
ISCJB III 25 08 28 34.3–1.1 52.41N–.04 160.66E–.06 19–7 4.0b,3.9
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC III 25 08 47 30.9–.86 52.49N–.04 160.68E–.04 27–5 4.7b,4.0s 231 1-87
KRSC III 25 08 47 25.9–2.5 52.35N 161.01E 15–10 5.0L,4.0s ¶16361350
MOS III 25 08 47 26.7–1.3 52.27N 160.70E 19 4.8b,4.0s
ISCJB III 25 08 47 31.1–.54 52.41N–.03 160.64E–.05 45–4 4.6b,3.9s
BJI III 25 08 47 34.1 53.07N 159.92E 44 4.9b,4.7b
NEIC III 25 08 47 35.5–.74 52.63N 160.42E 62–6 4.7b,4.7b
IDC III 25 08 47 36.1–2.1 52.63N 160.31E 67–18 4.2,4.1
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=7.5km s-min=4.0km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.5km az=140.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.3km az=152.0.
IDC Error ellipse: s-maj=17.0km s-min=10.3km az=150.0.
KRSC III 25 13 21 02.8–1.1 55.28N 163.74E 17–15 3.9L
¶16363918
KRSC Event type se.
KRSC III 29 18 27 50.1–1.5 52.59N 159.86E 49–16 3.8L
¶16391157
KRSC Event type se.
ISC IV 03 04 54 59.0–1.2 52.36N–.05 160.03E–.05 50–11 3.8b 110 1-79
KRSC IV 03 04 54 57.1–1.7 52.37N 160.07E 60–20 4.1L ¶16404926
MOS IV 03 04 54 58.9–.86 52.37N 159.95E 64 4.1b
ISCJB IV 03 04 54 59.4–.60 52.40N–.04 159.94E–.07 70–5 3.6b
IDC IV 03 04 55 04.5–2.0 52.59N 159.56E 93–13 3.7,3.6
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=12.1km s-min=5.4km az=95.0.

ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=3.9km az=41.5.
IDC Error ellipse: s-maj=23.7km s-min=18.8km az=104.0.
ISC IV 03 07 22 13.2–.66 54.11N–.04 163.31E–.04 37–2 4.4b 262 2-144
KRSC IV 03 07 22 09.7–1.6 54.14N 163.27E 92–31 4.8L **¶16705408**
BJI IV 03 07 22 10.4 54.20N 163.20E 39 4.7b,4.7s
ISCJB IV 03 07 22 12.0–.41 54.13N–.02 163.20E–.04 46–3 4.4b,4.1s
NEIC IV 03 07 22 12.9–.28 54.21N 163.10E 35 4.6b,4.1s
MOS IV 03 07 22 14.4–.96 54.24N 162.90E 73 4.7b,4.1s
IDC IV 03 07 22 15.4–.63 54.25N 162.96E 60–5 4.2,4.1
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=41.4.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.4km az=170.0.
MOS Error ellipse: s-maj=7.2km s-min=5.4km az=97.6.
IDC Error ellipse: s-maj=15.9km s-min=8.1km az=161.0.
KRSC IV 03 11 24 18.7–1.6 52.62N 163.36E 41–25 3.6L
¶16406027
KRSC Event type se.
KRSC IV 04 01 43 16.7–.87 52.42N 160.79E 6–6 3.7L
¶16408807
KRSC Event type se.
KRSC IV 09 04 39 45.1–1.2 52.62N 159.78E 50–12 3.8L
¶16416706
KRSC Event type se.
IDC IV 09 20 25 39.5–7.2 53.93N 161.31E 0 3.7,3.5
¶17200372
IDC Error ellipse: s-maj=129.8km s-min=56.2km az=106.0.
KRSC IV 22 15 23 35.5–.97 52.69N 159.74E 60–15 3.6L
¶16452504
KRSC Event type se.
KRSC IV 23 02 54 45.0–1.6 52.49N 159.66E 42–19 3.8L
¶16452959
KRSC Event type se.
KRSC IV 30 01 59 57.4–.83 55.86N 163.95E 59–19 4.0L
MOS IV 30 01 59 59.4–.61 55.81N 163.93E 45 4.2b **¶16485913**
KRSC Event type se.
MOS Error ellipse: s-maj=14.5km s-min=12.5km az=141.1.
ISC V 02 08 00 09.3–1.7 52.81N–.05 160.98E–.04 11–10 3.9b,3.0s 100 1-80
MOS V 02 08 00 07.4–1.4 52.42N 161.11E 17 4.2b,3.0s **¶16488866**
KRSC V 02 08 00 08.3–1.7 52.55N 161.04E 16–10 4.3L,3.0s
IDC V 02 08 00 15.5–3.1 52.73N 160.57E 57–27 3.8,3.7L
ISC Event type se.
MOS Error ellipse: s-maj=9.8km s-min=5.0km az=100.8.
KRSC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=16.1km az=129.0.
KRSC V 03 06 20 43.0–1.3 52.79N 161.59E 41–19 3.6L
¶16491545
KRSC Event type se.
KRSC V 13 02 57 38.9–1.7 53.17N 163.10E 60–22 3.6L
¶16510212
KRSC Event type se.
KRSC V 17 19 02 52.2–.95 52.60N 159.75E 41–13 3.8L
¶16525817
KRSC Event type se.
ISC V 18 17 42 37.0–.27 55.44N–.03 163.91E–.02 25–1 5.6b,5.1s 1788 1-168
IDC V 18 17 42 33.2–.34 55.48N 163.75E 0 5.1,5.1 **¶16527352**
BJI V 18 17 42 33.4 55.71N 163.61E 14 5.6s,5.4
KRSC V 18 17 42 34.4–1.1 55.39N 164.03E 69–25 5.5L,5.4
NEIC V 18 17 42 35.6–.42 55.52N 163.85E 14–2 5.6b,5.5W
GCMT V 18 17 42 35.7–.10 55.47N 164.10E 12–0 5.5W,5.5W
ISCJB V 18 17 42 35.8–.48 55.45N–.02 163.96E–.02 29–3 5.5b,5.1s
NEIC V 18 17 42 36.0–.00 55.57N 163.75E 18 5.5b,5.1s
MOS V 18 17 42 37.1–.99 55.41N 163.90E 45 5.7b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=8.7km s-min=6.8km az=157.0.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=1.8km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c153; s119,c285;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.27±.03 $M_{\theta\theta}$-0.32±.02; $M_{\phi\phi}$1.58±.02; $M_{r\theta}$0.91±.07; $M_{\theta\phi}$0.84±.02; $M_{\theta r}$0.58±.06; Best double couple: NP1:ϕ_s225.00000°,δ65.00000°,λ-61.00000°. NP2:ϕ_s353.00000°,δ38.00000°,λ-136.00000°. Principal axes: T 2.1290,Plg15.0000°,Azm294.0000°; N -0.3160,Plg26.0000°,Azm32.0000° ; P -1.8170,Plg60.0000°,Azm178.0000° $M_0$1.97300×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=1.5km az=165.9.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20 $M_{\theta\theta}$0.00 $M_{\phi\phi}$1.20 $M_{r\theta}$0.20 $M_{\theta\phi}$0.50 $M_{\theta r}$-1.30 Best double couple: NP1:ϕ_s0.00000°,δ68.00000°,λ-108.00000°. NP2:ϕ_s221.00000°,δ28.00000°,λ-51.00000°. Principal axes: T 1.8000,Plg21.0000°,Azm103.0000°; N 0.0000,Plg16.0000°,Azm7.0000° ; P -1.8000,Plg62.0000°,Azm241.0000° $M_0$2.00000×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=4.7km az=63.3.
KRSC V 22 20 59 57.8–.81 52.63N 159.88E 25–10 3.6L
¶16533386
KRSC Event type se.
KRSC V 25 18 11 00.2–.76 52.51N 159.40E 27–10 3.9L
¶16545950
KRSC Event type se.
ISC V 30 15 55 42.7–1.8 52.78N–.09 161.50E–.06 38–3 3.8b 39 1-70
KRSC V 30 15 55 40.1–1.1 52.81N 161.52E 50–21 3.9L **¶16551579**
ISCJB V 30 15 55 42.5–.95 52.83N–.07 161.46E–.07 36–9 3.7b,3.6s
IDC V 30 15 55 46.3–3.6 52.36N 161.03E 70–23 3.7,3.6s
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=4.8km az=155.5.
IDC Error ellipse: s-maj=81.2km s-min=18.0km az=9.0.
ISC V 30 16 05 29.8–.64 52.80N–.04 161.31E–.04 31–3 3.9b,3.6s 148 1-80
KRSC V 30 16 05 25.0–1.5 52.67N 161.67E 47–23 4.7L,3.6s **¶16551580**
ISCJB V 30 16 05 27.3–1.2 52.69N–.04 161.58E–.04 33–9 3.9b,3.6s
MOS V 30 16 05 29.9–.88 52.84N 161.26E 49 4.1b,3.6s
IDC V 30 16 05 31.8–.77 52.96N 161.08E 41–6 3.8,3.6
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=155.4.
MOS Error ellipse: s-maj=7.7km s-min=4.5km az=98.7.
IDC Error ellipse: s-maj=19.7km s-min=12.0km az=169.0.
ISC V 30 16 17 08.7–.61 52.89N–.05 161.32E–.04 34–1 4.0b 157 1-80
KRSC V 30 16 17 03.2–1.4 52.68N 161.63E 51–22 4.5L **¶16551581**
ISCJB V 30 16 17 07.0–.67 52.78N–.05 161.43E–.06 42–5 4.4s,4.0b
MOS V 30 16 17 08.4–.75 52.89N 161.23E 47 4.4b,4.0b
NEIC V 30 16 17 09.7–.42 53.08N 161.05E 34 4.1b,4.0b
IDC V 30 16 17 10.0–.73 53.09N 161.04E 35–5 4.3,4.3s
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=3.8km az=146.0.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=96.6.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.1km az=156.0.
IDC Error ellipse: s-maj=18.9km s-min=10.8km az=162.0.
ISC V 30 21 37 11.9–2.3 52.85N–.05 161.37E–.04 31–16 3.9b 136 1-88
IDC V 30 21 37 08.9–.91 53.16N 161.05E 0 4.0,3.9 **¶16551586**
KRSC V 30 21 37 08.1–1.2 52.79N 161.53E 41–20 4.2L,3.9
MOS V 30 21 37 09.8–.89 52.75N 161.49E 38 4.1b,3.9
ISCJB V 30 21 37 11.3–.70 52.83N–.04 161.38E–.06 44–5 4.0b,3.9
NEIC V 30 21 37 13.8–.64 53.12N 161.01E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=25.8km s-min=14.5km az=163.0.
KRSC Event type se.
MOS Error ellipse: s-maj=7.9km s-min=4.7km az=105.9.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=3.8km az=144.8.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=8.5km az=157.0.
ISC V 31 05 44 56.4–1.4 51.83N–.06 159.10E–.06 46–15 3.4b 69 1-72
MOS V 31 05 44 48.1–.42 51.24N 158.93E 80 4.2b **¶16552782**
KRSC V 31 05 44 54.4–1.7 51.87N 159.08E 71–19 4.1L
ISCJB V 31 05 44 56.4–.74 51.87N–.05 159.03E–.10 62–8 3.4b
IDC V 31 05 44 58.6–5.3 51.81N 158.51E 82–33 3.5,3.5
ISC Event type se.
MOS Error ellipse: s-maj=25.8km s-min=5.8km az=92.1.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=6.1km az=34.4.
IDC Error ellipse: s-maj=66.3km s-min=39.1km az=34.0.
ISC VI 18 08 37 27.7–1.1 52.80N–.06 161.41E–.04 26–7 3.6b,3.1s 105 1-80
KRSC VI 18 08 37 25.3–1.9 52.76N 161.53E 40–25 4.4L,3.1s **¶16632940**
ISCJB VI 18 08 37 28.1–.87 52.78N–.06 161.42E–.06 41–8 3.7b,3.2s
MOS VI 18 08 37 28.3–.81 52.79N 161.34E 41 4.0b,3.2s
IDC VI 18 08 37 33.6–2.4 52.97N 161.01E 71–21 3.6,3.6
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=4.5km az=155.5.
MOS Error ellipse: s-maj=9.2km s-min=5.0km az=100.3.
IDC Error ellipse: s-maj=21.2km s-min=15.4km az=145.0.
KRSC VI 21 05 22 47.7–1.3 51.36N 160.56E 80–28 3.9L
¶603071577
KRSC Event type se.
KRSC VI 21 07 53 19.0–1.5 52.83N 160.76E 16–10 4.0L
¶603071578
KRSC Event type se.
KRSC VI 21 11 02 07.4–1.2 52.84N 160.72E 24–9 3.5L
¶603071579
KRSC Event type se.
ISC VI 24 10 35 44.8–.99 51.69N–.05 159.25E–.05 71–7 4.1b 169 1-82
KRSC VI 24 10 35 42.4–1.5 51.66N 159.41E 68–27 4.5L **¶16658839**
ISCJB VI 24 10 35 44.9–.58 51.73N–.04 159.11E–.07 88–3 4.1b
MOS VI 24 10 35 44.7–1.1 51.73N 159.04E 86 4.4b
NEIC VI 24 10 35 47.1–1.3 51.81N 159.06E 87–9 4.7b
IDC VI 24 10 35 48.2–1.6 51.79N 158.96E 95–11 4.2,3.9
ISC Event type se.
KRSC Event type se. FELT [II] at lighthouse Krugliy.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=4.1km az=44.6.
MOS Error ellipse: s-maj=9.6km s-min=3.8km az=89.8.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.3km az=161.0.
IDC Error ellipse: s-maj=15.5km s-min=11.7km az=158.0.
KRSC VI 24 20 59 05.2–1.5 52.54N 159.75E 54–18 3.8L
¶603071582
KRSC Event type se.
ISC VI 25 09 01 46.9–.52 51.25N–.05 159.72E–.05 28–2 4.3b,3.3s 122 1-78
KRSC VI 25 09 01 41.7–3.2 51.17N 160.05E 15–6 4.3L,3.3s **¶16682690**
MOS VI 25 09 01 43.0–1.1 51.13N 159.70E 13 4.6b,3.3s
BJI VI 25 09 01 45.9 51.59N 159.49E 26 4.8b,4.6b
ISCJB VI 25 09 01 47.6–.89 51.23N–.05 159.57E–.09 45–6 4.2b,3.4s
NEIC VI 25 09 01 49.5–.48 51.33N 159.48E 39 4.4b,3.4s
IDC VI 25 09 01 49.4–.68 51.32N 159.49E 38–4 4.0,3.9
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=9.2km s-min=4.3km az=96.9.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.8km az=43.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.1km az=125.0.
IDC Error ellipse: s-maj=17.2km s-min=11.9km az=124.0.
KRSC VI 29 12 08 02.6–1.5 52.49N 159.48E 59–19 3.9L
¶603071592
KRSC Event type se.
KRSC VI 30 10 53 34.3–.94 53.71N 161.02E 60–19 3.7L
¶603071593
KRSC Event type se.

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ISC I 08 22 30 46.4–.38 47.64N–.04 146.98E–.04 423–3 4.4b 421 2-152
NIED I 08 22 30 00 47.00N 147.50E 340 4.5W **¶15910789**
MOS I 08 22 30 44.7–.88 47.69N 146.96E 416 4.4b
ISCJB I 08 22 30 44.9–.20 47.69N–.03 146.96E–.03 414–2 4.3b
SKHL I 08 22 30 44.1–.80 47.51N 147.20E 425–5 5.1b,4.6s
BJI I 08 22 30 45.7 47.78N 146.83E 418 4.7b,4.6b
JMA I 08 22 30 45.1–.50 47.03N 147.49E 458 4.2,4.6b
IDC I 08 22 30 46.8–.51 47.75N 146.91E 425–5 4.6,3.9
NEIC I 08 22 30 46.9–.31 47.74N 146.86E 422–4 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ36.00000°,λ-36.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ-120.00000°. $M_0$6.47000×10^{15}
MOS Error ellipse: s-maj=8.5km s-min=5.7km az=103.3.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.8km az=156.2.
JMA Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=8.6km s-min=5.9km az=142.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=2.7km az=155.0.
ISC I 09 15 51 30.4–.49 47.82N–.06 146.44E–.07 483 3.5b 80 3-81
ISCJB I 09 15 51 29.6–.31 47.90N–.04 146.44E–.08 483 3.5b **¶16021282**
MOS I 09 15 51 29.8–1.1 48.02N 146.34E 379 4.0b
SKHL I 09 15 51 29.4–1.0 47.81N 146.56E 478–12 4.8s,4.6b
JMA I 09 15 51 31.7–.40 47.34N 146.59E 509 3.7,4.6b
IDC I 09 15 51 31.7–.90 48.17N 146.22E 478–13 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=14.2.
MOS Error ellipse: s-maj=16.5km s-min=8.7km az=80.2.
JMA Error ellipse: s-maj=5.6km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=9.2km az=164.0.
ISC I 28 11 57 54.1–.57 47.27N–.06 148.38E–.07 377 3.5b 66 2-80
ISCJB I 28 11 57 53.1–.38 47.33N–.04 148.42E–.08 377 3.4b **¶17191188**
MOS I 28 11 57 53.4–1.3 47.65N 148.34E 360 3.9b
SKHL I 28 11 57 54.2–.50 47.60N 148.34E 348–12 5.2s,4.8b
IDC I 28 11 57 55.9–1.5 47.72N 148.22E 366–16 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=3.8km az=30.3.
MOS Error ellipse: s-maj=21.5km s-min=9.6km az=70.2.
IDC Error ellipse: s-maj=17.8km s-min=10.4km az=146.0.
ISC I 29 08 50 26.9–1.8 51.9N–.10 155.0E–.20 450 3.3b 41 2-74
KRSC I 29 08 50 16.5–2.3 51.47N 154.19E 474–55 4.2L **¶17191247**
IDC I 29 08 50 20.0–2.0 52.20N 152.93E 412–21 3.7,3.2
MOS I 29 08 50 22.7–.59 51.73N 154.62E 443 3.9b,3.2
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=31.8km s-min=19.2km az=117.0.
MOS Error ellipse: s-maj=66.6km s-min=11.0km az=62.5.
ISC I 29 18 18 28.8–.73 52.21N–.09 153.66E–.09 450 3.0b 42 2-78
KRSC I 29 18 18 24.0–1.9 51.69N 154.07E 494–34 4.3L **¶17191264**
ISCJB I 29 18 18 27.5–.50 52.23N–.07 153.4E–.10 450 3.1b
MOS I 29 18 18 27.8–1.2 52.32N 153.62E 469 3.8b
IDC I 29 18 18 28.4–1.3 52.28N 153.11E 444–15 3.6,3.0
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.7km az=149.0.
MOS Error ellipse: s-maj=23.9km s-min=13.3km az=71.9.
IDC Error ellipse: s-maj=18.8km s-min=14.3km az=130.0.
ISC II 09 19 09 23.4–.37 50.54N–.04 150.57E–.03 459 3.8b 136 4-150
KRSC II 09 19 09 21.9–2.3 50.39N 150.82E 500–54 4.6L **¶16021377**
SKHL II 09 19 09 22.0–1.1 50.51N 150.75E 477–17 4.7s,4.7b
ISCJB II 09 19 09 23.2–.23 50.56N–.04 150.46E–.05 459 3.8b,4.7b
MOS II 09 19 09 23.0–1.0 50.54N 150.42E 470 4.1b,4.7b
IDC II 09 19 09 24.6–1.0 50.62N 150.43E 469–12 4.3,3.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.2km az=144.4.
MOS Error ellipse: s-maj=11.0km s-min=5.9km az=67.0.
IDC Error ellipse: s-maj=9.9km s-min=6.9km az=129.0.
ISC II 11 09 11 36.4–.58 48.86N–.06 149.68E–.09 400 3.5b 45 4-151
ISCJB II 11 09 11 35.5–.44 48.98N–.05 149.7E–.10 400 3.4b **¶16168835**

MOS II 11 09 11 35.9–.91 48.97N 149.55E 410 4.0b
SKHL II 11 09 11 36.4–.50 48.75N 149.54E 409–9 4.9b
IDC II 11 09 11 38.2–1.5 49.03N 149.53E 416–17 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.7km az=17.7.
MOS Error ellipse: s-maj=17.8km s-min=8.9km az=86.2.
IDC Error ellipse: s-maj=13.9km s-min=11.7km az=139.0.
ISC III 01 10 44 59.0–1.3 46.80N–.06 148.4E–.20 35 3.4b 33 2-80
MOS III 01 10 44 56.5–2.1 46.74N 148.55E 54 4.1b **¶17193064**
IDC III 01 10 44 57.5–7.4 46.28N 149.42E 72–86 3.6,3.5
SKHL III 01 10 45 03.4–.60 46.62N 147.73E 98–4 5.2s,4.4b
JMA III 01 10 45 04.8–.40 44.86N 149.15E 152 3.4,4.4b
ISC Event type ke.
MOS Error ellipse: s-maj=16.9km s-min=10.7km az=94.2.
IDC Error ellipse: s-maj=111.3km s-min=27.1km az=7.0.
JMA Error ellipse: s-maj=4.4km s-min=4.7km az=-1.0.
ISC III 01 14 46 10.9–.94 50.3N–.20 150.9E–.10 400 3.0b 9 5-75
ISCJB III 01 14 46 09.8–.85 50.3N–.20 150.9E–.20 400 3.0b **¶17193076**
IDC III 01 14 46 10.9–1.7 50.28N 150.89E 397–21 3.6,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=13.7km az=144.1.
IDC Error ellipse: s-maj=23.7km s-min=16.3km az=144.0.
ISC III 12 00 33 28.8–.54 48.19N–.07 148.98E–.09 367 3.9b 35 3-79
MOS III 12 00 33 28.9–1.3 48.26N 148.92E 386 4.0b **¶17194188**
ISCJB III 12 00 33 28.6–.40 48.30N–.06 149.1E–.10 367 3.8b
SKHL III 12 00 33 29.8–.80 48.10N 148.98E 381–2 5.0s,4.7b
IDC III 12 00 33 31.5–1.9 48.38N 148.69E 394–22 4.2,3.6
ISC Event type ke.
MOS Error ellipse: s-maj=24.1km s-min=10.5km az=75.4.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.1km az=34.0.
IDC Error ellipse: s-maj=16.6km s-min=9.9km az=133.0.
SKHL III 18 13 41 49.4–.10 46.22N 147.53E 206–6 5.2s,4.6b
¶600847867
ISC III 19 14 06 16.6–.49 52.30N–.06 153.34E–.06 447 3.6b 92 2-78
MOS III 19 14 06 16.4–.93 52.32N 153.30E 468 4.0b **¶16339768**
ISCJB III 19 14 06 16.2–.27 52.31N–.04 153.06E–.05 447 3.5b
KRSC III 19 14 06 17.1–2.3 52.04N 154.11E 483–23 4.6L
IDC III 19 14 06 18.1–1.2 52.51N 153.11E 456–13 4.0,3.3
ISC Event type se.
MOS Error ellipse: s-maj=11.7km s-min=6.9km az=67.1.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.4km az=156.7.
KRSC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=8.9km az=167.0.
IDC IV 05 06 33 35.6–11 49.57N 149.58E 410–156 3.6,3.1
¶17199858
IDC Error ellipse: s-maj=215.0km s-min=21.4km az=124.0.
ISC IV 28 05 55 43.7–.64 51.53N–.08 153.61E–.07 450 3.7b 117 2-148
KRSC IV 28 05 55 41.2–1.3 51.40N 153.69E 450–25 4.7L **¶16482353**
ISCJB IV 28 05 55 42.0–.36 51.47N–.06 153.62E–.06 450 3.6b
MOS IV 28 05 55 42.7–1.1 51.69N 153.33E 441 4.0b
IDC IV 28 05 55 44.9–1.2 51.99N 152.99E 420–12 4.1,3.5
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=3.8km az=155.9.
MOS Error ellipse: s-maj=11.7km s-min=7.3km az=68.6.
IDC Error ellipse: s-maj=11.9km s-min=9.8km az=149.0.
ISC V 03 07 22 37.0–.40 46.50N–.04 147.66E–.04 274–3 4.5b 977 1-152
NIED V 03 07 22 00 45.90N 147.80E 360 4.8W **¶16488878**
ISCJB V 03 07 22 36.6–.20 46.55N–.02 147.52E–.02 277–2 4.5b
IDC V 03 07 22 38.0–.83 46.70N 147.46E 274–7 4.8,4.2
SKHL V 03 07 22 37.3–.90 46.40N 147.60E 290–12 5.5,5.4
MOS V 03 07 22 37.0–.93 46.62N 147.45E 280 4.6b,5.4
NEIC V 03 07 22 38.7–.31 46.69N 147.40E 280–3 4.6b,5.4
JMA V 03 07 22 38.7–.60 45.92N 147.75E 297 4.8,5.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S66.00000°,δ58.00000°,λ143.00000°. NP2:ϕ_S179.00000°,δ59.00000°,λ38.00000°. $M_0$1.94000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.5km az=159.2.
IDC Error ellipse: s-maj=8.5km s-min=6.7km az=134.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=90.8.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.2km az=156.0.
JMA Error ellipse: s-maj=5.6km s-min=5.4km az=-1.0.
ISC V 11 06 10 25.1–.92 49.5N–.10 150.98E–.08 350 3.3b 46 4-77
SKHL V 11 06 10 23.0–.00 49.30N 151.40E 350–16 4.7b **¶16506396**
ISCJB V 11 06 10 24.2–.63 49.5N–.10 150.89E–.08 350 3.3b
MOS V 11 06 10 24.3–.90 49.54N 150.81E 357 4.0b
IDC V 11 06 10 25.7–2.1 49.58N 150.76E 354–23 3.8,3.2
KRSC V 11 06 10 33.9–1.9 49.74N 151.97E 294–25 4.3L,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=5.7km az=162.1.
MOS Error ellipse: s-maj=18.8km s-min=9.4km az=61.6.
IDC Error ellipse: s-maj=26.4km s-min=12.1km az=160.0.
KRSC Event type se.
ISC V 18 06 48 37.5–1.3 52.5N–.20 152.9E–.10 400 3.1b 29 3-75
KRSC V 18 06 48 34.2–1.2 50.74N 154.94E 480–17 4.4L **¶16528310**
MOS V 18 06 48 34.1–1.7 50.74N 154.94E 481 4.3b
IDC V 18 06 48 36.2–3.2 52.02N 152.85E 417–21 3.4,3.0
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=59.5km s-min=18.0km az=61.0.
IDC Error ellipse: s-maj=95.4km s-min=23.4km az=179.0.
ISC V 23 21 47 44.6–.53 47.77N–.07 147.32E–.08 450 3.5b 56 4-152
ISCJB V 23 21 47 43.8–.37 47.92N–.04 147.31E–.09 450 3.4b **¶16560135**
IDC V 23 21 47 45.7–1.0 48.12N 147.15E 448–12 4.0,3.3
JMA V 23 21 47 45.5–.60 47.38N 147.48E 483 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.8km az=26.2.
IDC Error ellipse: s-maj=13.0km s-min=9.6km az=137.0.
JMA Error ellipse: s-maj=6.7km s-min=6.0km az=-1.0.
ISC V 24 18 08 29.0–.50 47.16N–.04 147.43E–.04 365–4 4.3b 686 2-154
NIED V 24 18 08 00 46.60N 147.70E 380 4.2W **¶16544917**
SKHL V 24 18 08 28.6–1.3 47.15N 147.42E 367–12 5.0b,4.7s
ISCJB V 24 18 08 28.6–.19 47.30N–.03 147.32E–.03 363–2 4.2b,4.7s
MOS V 24 18 08 28.9–.88 47.36N 147.29E 366 4.3b,4.7s
JMA V 24 18 08 29.1–.40 46.64N 147.68E 402 4.1,4.7s
IDC V 24 18 08 30.4–1.1 47.37N 147.29E 369–11 4.5,3.9
NEIC V 24 18 08 30.3–.29 47.42N 147.22E 366–3 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S10.00000°,δ35.00000°,λ135.00000°. NP2:ϕ_S139.00000°,δ66.00000°,λ63.00000°. $M_0$2.30000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=161.1.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=81.6.
JMA Error ellipse: s-maj=4.4km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=9.7km s-min=7.9km az=136.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.2km az=154.0.
JMA V 28 13 15 21.3–.40 46.22N 146.95E 354 3.5
¶600625173
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
KRSC VI 03 03 34 41.8–1.0 52.21N 154.70E 481–13 3.8L
¶603071537
KRSC Event type se.
ISC VI 03 05 46 25.4–.58 47.62N–.06 148.32E–.07 377 3.4b 66 2-80
ISCJB VI 03 05 46 24.4–.36 47.68N–.04 148.38E–.07 377 3.3b **¶17205064**
SKHL VI 03 05 46 24.7–.50 47.57N 148.37E 377–3 4.8s,4.7b
MOS VI 03 05 46 24.7–.88 47.81N 148.27E 377 3.9b,4.7b
IDC VI 03 05 46 27.5–1.8 47.86N 148.20E 390–22 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=26.9.
MOS Error ellipse: s-maj=15.4km s-min=9.5km az=70.1.
IDC Error ellipse: s-maj=19.7km s-min=12.0km az=146.0.
ISC VI 14 01 47 35.2–.72 47.28N–.09 146.3E–.10 550 3.2b 21 4-81
JMA VI 14 01 47 35.7–.40 47.12N 146.57E 547 3.6 **¶17206078**
IDC VI 14 01 47 36.9–1.5 48.16N 145.47E 495–18 3.8,3.1
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=11.6km az=128.0.
ISC VI 14 04 04 15.5–.74 48.4N–.10 149.0E–.10 400 3.3b 16 6-79
ISCJB VI 14 04 04 14.4–.59 48.4N–.10 149.0E–.20 400 3.3b **¶17206083**
IDC VI 14 04 04 15.8–1.5 48.38N 148.97E 400–18 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=8.6km az=44.6.
IDC Error ellipse: s-maj=23.3km s-min=10.4km az=134.0.
KRSC VI 16 15 42 43.7–2.1 52.11N 153.07E 538–32 4.2L
MOS VI 16 15 42 43.7–.74 51.98N 153.46E 574 4.4b **¶16621534**
KRSC Event type se.
MOS Error ellipse: s-maj=75.1km s-min=22.0km az=144.9.
ISC VI 19 02 28 23.2–.35 47.27N–.04 147.55E–.04 375 4.2b 334 2-152
SKHL VI 19 02 28 23.6–.20 47.25N 147.53E 377–12 4.7b,4.4s **¶16632962**
JMA VI 19 02 28 23.3–.60 46.78N 147.96E 417 4.0,4.4s
MOS VI 19 02 28 23.5–.89 47.50N 147.45E 383 4.1b,4.4s
ISCJB VI 19 02 28 23.1–.15 47.43N–.03 147.46E–.03 375 4.2b,4.4s
IDC VI 19 02 28 24.5–1.1 47.48N 147.58E 380–11 4.4,3.8
NEIC VI 19 02 28 24.6–.41 47.52N 147.44E 376–5 4.3b,3.8
ISC Event type se.
JMA Error ellipse: s-maj=6.7km s-min=6.1km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=5.8km az=84.3.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.5km az=150.1.
IDC Error ellipse: s-maj=11.5km s-min=8.7km az=149.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.5km az=162.0.
ISC VI 28 13 54 37.3–.45 46.50N–.04 147.09E–.04 293–3 4.7b 904 1-152
ISCJB VI 28 13 54 36.6–.20 46.58N–.03 147.00E–.02 295–2 4.7b **¶16685962**
BJI VI 28 13 54 36.1 46.68N 147.05E 295 4.8b,4.4b
SKHL VI 28 13 54 37.3–.20 46.46N 147.17E 305–2 5.2b,5.1s
MOS VI 28 13 54 37.1–.88 46.63N 146.93E 301 4.7b,5.1s
NEIC VI 28 13 54 38.4–.12 46.64N 146.92E 300 4.8b,5.1s
IDC VI 28 13 54 38.6–.61 46.64N 146.93E 300–5 4.9,4.3
JMA VI 28 13 54 38.1–.40 45.99N 147.18E 331 4.9,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.4km az=160.9.
MOS Error ellipse: s-maj=6.2km s-min=4.8km az=85.9.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.1km az=158.0.
IDC Error ellipse: s-maj=10.6km s-min=7.6km az=155.0.
JMA Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.

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KRSC I 01 11 28 14.2–1.2 49.01N 156.80E 15–6 3.9L
¶17189130
KRSC Event type se.
ISC I 02 00 35 12.8–.85 47.8N–.10 152.6E–.10 150 3.4b 25 4-77
SKHL I 02 00 35 08.3–.20 47.26N 153.16E 133–5 5.2s,4.8b **¶16394620**
ISCJB I 02 00 35 12.1–.56 47.7N–.10 152.4E–.10 150 3.5b,4.8b
MOS I 02 00 35 13.4–.82 47.64N 152.22E 167 4.2b,4.8b
IDC I 02 00 35 15.1–3.5 47.63N 152.27E 165–33 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=7.2km az=139.7.
MOS Error ellipse: s-maj=23.3km s-min=14.5km az=74.3.
IDC Error ellipse: s-maj=17.6km s-min=14.3km az=140.0.
ISC I 02 05 14 59.0–1.0 44.45N–.07 149.82E–.09 34 3.7b 36 2-81
IDC I 02 05 14 54.4–1.3 44.62N 149.66E 0 3.9,3.8 **¶16394635**
ISCJB I 02 05 14 57.4–.74 44.43N–.07 149.84E–.08 34 3.6b,3.8
SKHL I 02 05 14 59.8–.20 44.42N 149.83E 66–1 4.7b,3.8
MOS I 02 05 15 01.9–.99 44.54N 149.45E 73 4.0b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=35.2km s-min=31.1km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.6km az=150.7.
MOS Error ellipse: s-maj=27.7km s-min=17.1km az=132.9.
ISC I 02 10 28 52.1–.61 44.59N–.05 147.24E–.06 124–5 3.9b 96 1-82
MOS I 02 10 28 50.6–1.6 44.63N 147.29E 126 4.1b **¶16021229**
SKHL I 02 10 28 51.9–.60 44.27N 147.43E 134–5 5.2s,4.6b
JMA I 02 10 28 53.3–.50 44.20N 147.55E 104 3.7,4.6b
IDC I 02 10 28 54.2–2.5 44.51N 147.38E 144–22 4.0,3.8
ISC Event type ke.
MOS Error ellipse: s-maj=13.1km s-min=8.5km az=106.2.
JMA Error ellipse: s-maj=3.3km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=13.5km az=134.0.
ISC I 03 16 06 47.1–1.7 47.4N–.30 153.5E–.20 59 3.5b 7 6-64
IDC I 03 16 06 48.9–4.5 47.56N 153.45E 66–38 3.4,3.3 **¶17189336**
ISC Event type ke.
IDC Error ellipse: s-maj=61.7km s-min=23.9km az=155.0.
ISC I 04 16 48 23.1–4.2 49.9N–.20 156.52E–.09 51 34 1-4
KRSC I 04 16 48 22.9–1.5 50.01N 157.01E 21–29 3.9L **¶16150516**
MOS I 04 16 48 22.8–2.0 50.01N 157.00E 21 4.0b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=40.0km s-min=8.2km az=81.7.
ISC I 05 18 21 52.1–3.2 50.2N–.20 156.91E–.08 51 33 1-7
MOS I 05 18 21 50.9–2.7 50.30N 157.15E 44 4.3b **¶16150609**
KRSC I 05 18 21 51.0–1.7 50.30N 157.15E 44–23 4.2L
ISC Event type se.
MOS Error ellipse: s-maj=42.3km s-min=10.3km az=78.4.
KRSC Event type se.
KRSC I 07 01 29 49.8–1.7 49.52N 156.90E 16–28 4.2L
MOS I 07 01 29 49.8–2.8 49.52N 156.89E 15 4.2b **¶16150709**
KRSC Event type se.
MOS Error ellipse: s-maj=73.0km s-min=14.2km az=86.1.
ISC I 07 20 37 21.5–3.4 50.7N–.10 157.91E–.09 30–22 44 1-9
KRSC I 07 20 37 19.9–1.3 50.72N 157.86E 71–26 3.9L **¶16150751**
MOS I 07 20 37 20.7–.80 50.63N 157.98E 46 4.1b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=26.0km s-min=7.7km az=82.7.
ISC I 08 09 04 40.3–3.2 46.0N–.50 149.2E–.30 150 3.3b 10 9-78
IDC I 08 09 04 44.1–7.0 46.33N 149.13E 170–45 3.5,3.3 **¶17189685**
ISC Event type ke.
IDC Error ellipse: s-maj=85.9km s-min=20.3km az=167.0.
ISC I 08 12 48 55.8–2.2 44.24N–.09 147.2E–.10 90–15 28 0-4
ISCJB I 08 12 48 54.7–1.2 44.25N–.08 147.2E–.10 95–9 **¶600327043**
JMA I 08 12 48 55.2–.30 44.26N 147.28E 81 3.9
SKHL I 08 12 48 55.8–.40 44.25N 147.22E 91–6 5.0s,4.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=6.6km az=42.5.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
ISC I 10 06 24 58.9–.66 48.80N–.09 155.5E–.10 51 3.4b 60 2-75
ISCJB I 10 06 24 57.1–.58 48.87N–.07 155.2E–.10 51 3.4b **¶16150944**
MOS I 10 06 24 57.1–2.0 48.90N 155.09E 16 4.3b
KRSC I 10 06 24 58.0–1.9 48.98N 156.45E 6–5 4.5L
IDC I 10 06 24 58.5–1.1 48.79N 155.02E 55–9 3.3,3.3
SKHL I 10 06 24 58.2–.60 48.72N 155.45E 53–2 3.9b,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=4.5km az=33.4.
MOS Error ellipse: s-maj=30.3km s-min=6.9km az=71.3.
KRSC Event type se.
IDC Error ellipse: s-maj=29.8km s-min=20.8km az=140.0.
ISC I 10 14 38 37.0–.53 44.68N–.05 146.50E–.04 166–5 3.9b 103 1-83
NIED I 10 14 38 00 44.60N 146.50E 150 3.9W **¶16395453**
MOS I 10 14 38 36.2–1.6 44.92N 146.28E 165 4.0b
ISCJB I 10 14 38 36.3–.30 44.70N–.04 146.51E–.05 172–2 3.8b
BJI I 10 14 38 36.7 45.00N 146.20E 150 4.9b,4.4b
IDC I 10 14 38 37.9–1.8 44.88N 146.38E 168–16 4.0,3.7
SKHL I 10 14 38 37.0–1.2 44.76N 146.50E 145–2 5.1s,4.3b
JMA I 10 14 38 38.4–.30 44.57N 146.49E 164–3 3.8,4.3b
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ51.00000°,λ170.00000°. NP2:ϕ_s168.00000°,δ83.00000°,λ40.00000°. $M_0$8.66000×10^{14}
MOS Error ellipse: s-maj=10.0km s-min=7.1km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.5km az=144.8.
IDC Error ellipse: s-maj=16.2km s-min=10.4km az=145.0.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.

ISC	**I**	**10 17 14 41.5–2.4**	**43.26N–.09**	**147.19E–.09**	**32–14**		**27**	**1-5**
SKHL	I	10 17 14 41.8–.70	43.22N	147.19E	46–2	4.8b		**¶600327045**
JMA	I	10 17 14 42.0–.20	43.24N	147.10E	52–4	3.3		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

KRSC	**I**	**11 11 05 47.5–1.5**	**49.65N**	**156.68E**	**16–10**	**4.1L**		
MOS	I	11 11 05 56.1–1.5	50.20N	156.60E	16	4.2b		**¶16151061**

KRSC Event type se.
MOS Error ellipse: s-maj=71.7km s-min=19.1km az=84.6.

KRSC	**I**	**11 17 51 20.1–1.3**	**49.99N**	**156.54E**	**30–14**	**3.9L**		
								¶17189931

KRSC Event type se.

SKHL	**I**	**12 00 50 22.6–.60**	**44.54N**	**149.29E**	**37–5**	**4.6b**		
								¶600327047
ISC	**I**	**12 07 52 22.7–2.2**	**43.5N–.10**	**147.2E–.10**	**57–16**		**18**	**0-5**
ISCJB	I	12 07 52 22.3–1.3	43.54N–.09	147.1E–.10	65–11			**¶600327048**
JMA	I	12 07 52 23.3–.10	43.44N	147.06E	62–3	2.9		
SKHL	I	12 07 52 23.0–.10	43.47N	147.19E	47–4	3.8b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=7.0km az=141.5.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

ISC	**I**	**12 08 54 47.1–2.4**	**43.7N–.10**	**147.4E–.10**	**46–19**		**17**	**0-5**
ISCJB	I	12 08 54 47.4–1.4	43.74N–.10	147.3E–.10	55–10			**¶600327049**
JMA	I	12 08 54 47.6–.20	43.60N	147.26E	44	2.7		
SKHL	I	12 08 54 48.3–.20	43.70N	147.32E	43–1	4.1b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=7.5km az=141.7.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.

ISC	**I**	**12 17 43 11.5–1.1**	**50.8N–.10**	**156.9E–.20**	**133–10**		**29**	**1-77**
KRSC	I	12 17 43 09.1–1.3	50.58N	157.30E	124–20	4.2L		**¶601989252**
ISCJB	I	12 17 43 10.6–.83	50.8N–.10	156.8E–.30	137–8	3.0b		
MOS	I	12 17 43 10.0–.90	50.72N	156.91E	135	4.3b		
IDC	I	12 17 43 10.8–4.2	50.86N	156.59E	127–47	3.3,3.2		

ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=42.9km s-min=9.2km az=32.9.
MOS Error ellipse: s-maj=79.1km s-min=12.7km az=77.3.
IDC Error ellipse: s-maj=95.3km s-min=33.9km az=132.0.

ISC	**I**	**12 23 48 56.2–2.2**	**43.4N–.10**	**146.82E–.09**	**30–12**		**15**	**0-5**
ISCJB	I	12 23 48 55.7–1.5	43.37N–.09	146.9E–.10	44–20			**¶600327050**
JMA	I	12 23 48 55.1–.30	43.29N	146.87E	50–4	2.7		
SKHL	I	12 23 48 56.4–.60	43.35N	146.86E	39–4	4.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=6.7km az=143.4.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.

ISC	**I**	**14 10 20 30.4–1.4**	**47.4N–.20**	**154.6E–.20**	**31**	**3.6b**	**8**	**3-76**
ISCJB	I	14 10 20 28.3–1.1	47.4N–.10	154.6E–.20	31	3.5b,3.0s		**¶16395806**
MOS	I	14 10 20 29.6–1.6	47.34N	154.65E	57	3.8b,3.0s		
IDC	I	14 10 20 37.9–3.3	48.11N	153.70E	95–29	3.7,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.4km s-min=9.3km az=140.8.
MOS Error ellipse: s-maj=30.3km s-min=18.0km az=63.8.
IDC Error ellipse: s-maj=58.5km s-min=18.4km az=150.0.

ISC	**I**	**15 07 56 49.6–2.6**	**48.6N–.20**	**155.9E–.20**	**35**		**22**	**2-9**
MOS	I	15 07 56 44.0–1.4	48.18N	156.14E	35	4.6b		**¶16151454**
ISCJB	I	15 07 56 47.8–1.5	48.6N–.20	155.6E–.30	33	4.6b		
KRSC	I	15 07 56 50.0–1.5	48.77N	156.72E	20–33	4.6L		

ISC Event type se.
MOS Error ellipse: s-maj=29.5km s-min=8.8km az=74.3.
ISCJB Event type se. Error ellipse: s-maj=39.3km s-min=8.4km az=36.5.
KRSC Event type se.

ISC	**I**	**15 11 57 20.6–1.4**	**50.3N–.10**	**157.18E–.08**	**89–10**	**3.4b**	**45**	**1-73**
KRSC	I	15 11 57 18.7–2.8	50.30N	157.61E	60–23	4.3L		**¶16151470**
MOS	I	15 11 57 19.9–1.1	50.36N	157.02E	99	4.3b		
ISCJB	I	15 11 57 20.8–.99	50.44N–.09	157.0E–.10	101–6	3.4b		
IDC	I	15 11 57 23.2–3.2	50.45N	156.83E	105–25	3.4,3.3		

ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=22.4km s-min=7.9km az=81.2.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=7.6km az=141.6.
IDC Error ellipse: s-maj=30.4km s-min=15.3km az=163.0.

ISC	**I**	**15 13 54 38.3–1.2**	**47.1N–.20**	**152.5E–.20**	**150**	**3.8b**	**17**	**4-78**
SKHL	I	15 13 54 35.6–.80	47.34N	152.51E	124–6	5.1s,4.8b		**¶16395932**
MOS	I	15 13 54 36.9–1.2	47.32N	152.24E	144	4.1b,4.8b		
IDC	I	15 13 54 36.8–4.1	47.23N	152.29E	125–38	3.6,3.4		
ISCJB	I	15 13 54 37.5–.83	47.3N–.10	152.4E–.20	150	3.5b,3.4		

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**15 19 36 24.9–.84**	**44.76N–.07**	**148.36E–.08**	**123–6**	**3.4b**	**50**	**1-81**
MOS	I	15 19 36 23.5–.99	45.32N	148.13E	104	4.0b		**¶15940645**
ISCJB	I	15 19 36 24.5–.61	44.78N–.08	148.31E–.10	131–5	3.3b		
SKHL	I	15 19 36 26.6–.50	44.80N	148.12E	135–13	5.0s,4.5b		
JMA	I	15 19 36 26.7–.30	44.47N	148.48E	92	3.7,4.5b		
IDC	I	15 19 36 28.4–2.0	45.24N	148.12E	136–21	3.6,3.4		

ISC Event type ke.
MOS Error ellipse: s-maj=17.9km s-min=12.9km az=92.1.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=6.6km az=140.0.
JMA Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=40.9km s-min=14.3km az=170.0.

ISC	**I**	**16 03 35 44.6–.71**	**44.09N–.04**	**147.86E–.05**	**88–5**	**4.5b**	**258**	**1-115**
NIED	I	16 03 35 00	43.90N	148.00E	74	4.2W		**¶15931175**
IDC	I	16 03 35 42.8–2.3	44.15N	147.86E	67–20	4.4,4.3		
MOS	I	16 03 35 43.6–.97	44.27N	147.88E	83	4.5b,4.3		
ISCJB	I	16 03 35 43.2–.41	44.08N–.03	147.93E–.04	85–3	4.4b,4.3		
BJI	I	16 03 35 43.2	44.04N	148.14E	99	5.0b,4.5b		
NEIC	I	16 03 35 44.9–.59	44.14N	147.91E	86–5	4.6b,4.5b		
SKHL	I	16 03 35 44.8–.80	44.06N	147.91E	92–4	6.1s,5.4b		
JMA	I	16 03 35 44.6–.20	43.86N	147.97E	62	5.1,5.4b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ60.00000°,λ19.00000°. NP2:ϕ_s61.00000°,δ74.00000°,λ148.00000°. $M_0$2.24000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=163.0.
MOS Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=104.9. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=144.4.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.0km az=154.0. Felt [II] at Yuzhno-Kuril'sk. Recorded [2 JMA] in eastern Hokkaido.
SKHL Event type fe. Felt (II) at Yushno-Kurillsk.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

ISC	**I**	**16 14 10 35.5–2.4**	**50.2N–.10**	**157.07E–.09**	**51**		**25**	**1-8**
KRSC	I	16 14 10 33.7–1.1	50.25N	157.26E	30–22	4.0L		**¶16151578**
ISCJB	I	16 14 10 34.6–1.1	50.18N–.07	157.1E–.10	51	4.0L		
MOS	I	16 14 10 34.1–.54	50.14N	157.06E	32	4.1b		

ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.1km az=137.5.
MOS Error ellipse: s-maj=37.5km s-min=10.3km az=79.9.

ISC	**I**	**16 15 17 01.7–2.1**	**43.63N–.09**	**147.08E–.09**	**28–10**		**21**	**0-5**
JMA	I	16 15 17 03.0–.20	43.52N	146.97E	35–3	2.9		**¶600327053**
SKHL	I	16 15 17 03.2–.20	43.73N	147.03E	27–1	4.0b		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

ISC	**I**	**18 08 41 08.4–1.1**	**48.8N–.20**	**155.4E–.20**	**51**	**3.5b**	**8**	**32-75**
IDC	I	18 08 41 01.3–.93	48.75N	155.44E	0	3.9,3.6		**¶17190470**
ISCJB	I	18 08 41 06.5–.84	48.8N–.20	155.4E–.30	51	3.6b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**I**	**20 09 29 20.1–1.3**	**46.6N–.10**	**153.0E–.10**	**40**	**4.0b**	**44**	**4-78**
ISCJB	I	20 09 29 18.6–.92	46.67N–.09	153.0E–.10	40	4.0b		**¶16019244**
MOS	I	20 09 29 20.3–.49	46.62N	153.15E	76	4.0b		
SKHL	I	20 09 29 21.9–.30	46.69N	153.02E	73–2	4.5b		
IDC	I	20 09 29 31.4–1.0	48.93N	150.85E	0	4.2,4.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=3.8km az=43.9.
MOS Error ellipse: s-maj=18.8km s-min=13.0km az=63.5.
IDC Error ellipse: s-maj=30.8km s-min=22.7km az=140.0.

ISC	**I**	**21 04 44 09.4–2.1**	**43.8N–.10**	**147.3E–.10**	**47–15**		**17**	**0-5**
ISCJB	I	21 04 44 09.2–1.4	43.82N–.10	147.2E–.10	54–10			**¶600327055**
JMA	I	21 04 44 09.1–.30	43.65N	147.29E	41	2.8		
SKHL	I	21 04 44 09.7–.10	43.77N	147.28E	50–4	4.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=7.0km az=136.3.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.

ISC	**I**	**22 00 46 59.6–.43**	**48.29N–.05**	**152.96E–.04**	**151–3**	**4.6b**	**483**	**3-148**
BJI	I	22 00 46 56.7	48.33N	153.28E	156	4.9b,4.9b		**¶15954797**
ISCJB	I	22 00 46 57.8–.28	48.28N–.03	152.96E–.03	143–2	4.5b,4.9b		
SKHL	I	22 00 46 57.9–1.5	48.01N	153.41E	141–5	5.6s,5.2b		
IDC	I	22 00 46 59.4–.59	48.36N	152.93E	146–4	4.6,4.2		
MOS	I	22 00 46 59.9–1.0	48.38N	152.95E	167	4.5b,4.2		
KRSC	I	22 00 46 59.4–2.3	47.97N	154.48E	188–18	5.1L,4.2		
NEIC	I	22 00 47 00.7–.33	48.38N	152.86E	154–2	4.7b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.2km az=147.1.
IDC Error ellipse: s-maj=11.0km s-min=7.3km az=158.0.
MOS Error ellipse: s-maj=6.7km s-min=4.0km az=76.2.
KRSC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=2.4km az=158.0.

ISC	**I**	**23 05 40 28.7–2.3**	**43.7N–.10**	**147.5E–.10**	**45–22**		**19**	**0-7**
JMA	I	23 05 40 29.7–.20	43.65N	147.31E	42	3.4		**¶600327056**
SKHL	I	23 05 40 30.1–.10	43.75N	147.38E	47–1	4.5b		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

ISC	**I**	**24 03 06 37.9–1.5**	**44.54N–.06**	**149.46E–.08**	**41–13**	**4.0b**	**94**	**1-82**
IDC	I	24 03 06 32.3–2.1	44.56N	149.30E	0	4.0,3.9		**¶16019256**
JMA	I	24 03 06 35.2–.60	44.86N	149.56E	30	4.5,3.9		
ISCJB	I	24 03 06 36.7–.88	44.57N–.06	149.44E–.08	45–7	3.9b,3.9		
SKHL	I	24 03 06 37.3–.70	44.59N	149.53E	49–3	5.2b,3.9		
MOS	I	24 03 06 38.5–1.3	44.88N	149.17E	44	4.3b,3.9		
NEIC	I	24 03 06 40.5–1.3	44.82N	149.24E	49–9	4.3b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=54.0km s-min=18.2km az=167.0.
JMA Error ellipse: s-maj=5.6km s-min=4.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=6.0km az=138.2.
MOS Error ellipse: s-maj=10.5km s-min=8.3km az=106.8.
NEIC Event type se. Error ellipse: s-maj=22.0km s-min=9.3km az=151.0.

ISC	**I**	**24 17 57 03.8–.63**	**44.60N–.06**	**147.52E–.06**	**148–5**	**3.6b**	**75**	**1-82**
ISCJB	I	24 17 57 03.0–.50	44.60N–.05	147.56E–.08	153–3	3.6b		**¶17190908**
MOS	I	24 17 57 03.4–1.3	44.91N	147.21E	147	4.1b		
SKHL	I	24 17 57 04.9–.40	44.68N	147.42E	144–5	5.2s,5.0b		
JMA	I	24 17 57 05.9–.40	44.48N	147.46E	142–5	3.8,5.0b		
IDC	I	24 17 57 06.3–2.2	44.88N	147.30E	158–19	3.9,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.2km az=135.0.
MOS Error ellipse: s-maj=16.8km s-min=9.0km az=76.3.
JMA Error ellipse: s-maj=3.3km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=143.0.

ISC	**I**	**24 19 46 01.7–.88**	**50.2N–.10**	**153.8E–.10**	**300**	**3.1b**	**34**	**2-61**
KRSC	I	24 19 45 57.9–.87	50.01N	154.06E	330–12	4.3L		**¶17190918**
MOS	I	24 19 45 59.9–.70	50.14N	153.78E	305	4.4b		
ISCJB	I	24 19 46 00.9–.72	50.28N–.10	153.7E–.10	300	3.0b		
IDC	I	24 19 46 04.7–1.9	50.64N	152.92E	270–20	3.6,3.0		

ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=24.0km s-min=9.9km az=69.8.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=7.0km az=150.4.
IDC Error ellipse: s-maj=29.5km s-min=18.7km az=138.0.

ISC	**I**	**25 12 07 39.8–.69**	**48.81N–.08**	**155.21E–.09**	**55**	**3.4b**	**70**	**2-75**
ISCJB	I	25 12 07 38.6–.51	48.86N–.06	155.0E–.10	55	3.5b		**¶17190961**
MOS	I	25 12 07 38.0–.97	48.72N	155.16E	54	4.1b		
SKHL	I	25 12 07 40.8–.60	48.92N	155.07E	67–3	5.0s,4.7b		
KRSC	I	25 12 07 41.4–2.3	48.88N	156.64E	23–30	4.4L,4.7b		
IDC	I	25 12 07 42.9–2.9	48.92N	154.79E	83–27	3.6,3.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=3.3km az=41.5.
MOS Error ellipse: s-maj=17.6km s-min=5.5km az=69.1.
KRSC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=15.5km az=139.0.

ISC	**I**	**25 16 12 32.8–2.8**	**44.28N–.08**	**148.3E–.20**	**6–14**		**27**	**1-8**
JMA	I	25 16 12 35.6–.30	44.03N	148.01E	0	4.1		**¶600327057**
SKHL	I	25 16 12 36.7–.40	44.37N	148.19E	33–3	4.6b		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.

ISC	**I**	**25 20 59 24.5–.95**	**48.3N–.10**	**155.4E–.10**	**36**	**3.4b**	**42**	**2-75**
SKHL	I	25 20 59 23.5–.90	48.20N	155.37E	48–5	4.0b		**¶17190984**
MOS	I	25 20 59 24.0–1.8	48.50N	154.77E	50	4.0b		
KRSC	I	25 20 59 26.3–1.7	48.68N	156.35E	6–19	4.3L		
IDC	I	25 20 59 29.5–3.3	48.68N	154.71E	81–29	3.5,3.4		

ISC Event type se.
MOS Error ellipse: s-maj=26.6km s-min=7.3km az=67.0.
KRSC Event type se.
IDC Error ellipse: s-maj=42.5km s-min=18.8km az=143.0.

KRSC	**I**	**25 22 57 05.5–.78**	**49.18N**	**156.64E**	**15–14**	**3.8L**		
								¶17190993

KRSC Event type se.

ISC	**I**	**26 20 18 44.7–1.2**	**43.75N–.06**	**147.36E–.07**	**48–11**	**3.8b**	**67**	**1-83**
NIED	I	26 20 18 00	43.60N	147.20E	56	3.9W		**¶16019264**
ISCJB	I	26 20 18 44.8–.77	43.78N–.06	147.28E–.07	62–6	3.8b		
JMA	I	26 20 18 45.3–.20	43.62N	147.25E	38–5	4.3		
MOS	I	26 20 18 45.2–1.0	44.14N	147.15E	52	4.5b		
SKHL	I	26 20 18 45.0–.60	43.74N	147.35E	64–7	5.0b		
IDC	I	26 20 18 49.2–2.8	44.11N	147.20E	72–24	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ58.00000°,λ155.00000°. NP2:ϕ_s155.00000°,δ69.00000°,λ35.00000°. $M_0$8.60000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=5.3km az=137.1.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
MOS Error ellipse: s-maj=17.6km s-min=10.3km az=74.2.
IDC Error ellipse: s-maj=22.9km s-min=14.0km az=150.0.

ISC	**I**	**27 00 02 07.5–.58**	**47.13N–.08**	**151.97E–.08**	**100**	**3.5b**	**57**	**3-114**
ISCJB	I	27 00 02 06.0–.43	47.16N–.06	152.02E–.09	100	3.5b		**¶16019265**
JMA	I	27 00 02 11.8–.40	46.08N	152.38E	145	3.7		
MOS	I	27 00 02 11.4–1.2	47.44N	151.87E	149	4.0b		
SKHL	I	27 00 02 11.3–.20	47.34N	151.81E	134–12	5.4s,5.1b		
IDC	I	27 00 02 12.9–1.9	47.41N	151.87E	146–17	3.7,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=3.9km az=136.5.
JMA Error ellipse: s-maj=7.8km s-min=6.2km az=-1.0.
MOS Error ellipse: s-maj=16.5km s-min=10.2km az=60.3.
IDC Error ellipse: s-maj=18.2km s-min=11.6km az=149.0.

ISC	**I**	**27 01 04 54.1–.50**	**46.58N–.07**	**153.28E–.05**	**24**	**4.6b,4.3s**	**255**	**4-148**
NIED	I	27 01 04 00	46.80N	153.60E	14	4.3W,4.3s		**¶15970228**
IDC	I	27 01 04 50.1–.57	46.58N	153.32E	0	4.5,4.3		
JMA	I	27 01 04 50.5–.80	46.82N	153.58E	30	4.8,4.3		
BJI	I	27 01 04 50.7	46.70N	153.82E	33	4.9b,4.7b		
ISCJB	I	27 01 04 51.8–.30	46.52N–.04	153.40E–.05	24	4.6b,4.2s		
NEIC	I	27 01 04 53.9–1.8	46.57N	153.35E	25–13	4.8b,4.2s		

MOS I 27 01 04 54.3–1.2 46.58N 153.28E 43 4.8b,4.2s
SKHL I 27 01 04 55.7–.90 46.47N 153.55E 80–9 4.9b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ54.00000°,λ20.00000°. NP2:ϕ_s49.00000°,δ74.00000°,λ142.00000°. $M_0$3.63000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=13.0km az=147.0.
JMA Error ellipse: s-maj=10.0km s-min=9.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=2.9km az=143.6.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.0km az=143.0.
MOS Error ellipse: s-maj=8.2km s-min=6.3km az=122.3.
KRSC I 27 13 26 36.5–1.0 50.18N 157.40E 26–35 3.9L
¶17191111
KRSC Event type se.
ISC I 27 14 34 27.0–1.3 47.1N–.20 152.7E–.20 67 3.7b 6 7-71
IDC I 27 14 34 23.2–7.5 47.03N 152.51E 31–55 3.6,3.5 **¶17191116**
ISCJB I 27 14 34 24.9–1.2 47.1N–.20 152.7E–.30 67 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 22 25 41.3–3.4 44.36N–.09 148.5E–.20 50 22 1-8
JMA I 27 22 25 43.7–.30 44.05N 148.03E 0 4.1 **¶600327058**
SKHL I 27 22 25 44.3–.60 44.40N 148.26E 44–4 4.9b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
KRSC I 28 02 39 18.5–2.9 49.89N 155.55E 61–17 3.7L
¶17191166
KRSC Event type se.
ISC I 28 08 27 56.0–6.8 50.5N–.20 157.00E–.08 39–23 38 1-8
MOS I 28 08 27 49.3–.68 50.07N 157.02E 64 4.3b **¶17191184**
KRSC I 28 08 27 51.9–1.7 50.37N 157.20E 40–24 4.2L
ISC Event type se.
MOS Error ellipse: s-maj=37.6km s-min=8.1km az=79.5.
KRSC Event type se.
KRSC I 28 18 04 12.1–2.2 49.51N 156.63E 15–14 3.9L
¶17191204
KRSC Event type se.
KRSC I 28 18 27 23.7–1.3 50.47N 156.85E 33–11 4.2L
MOS I 28 18 27 25.0–1.0 50.49N 156.52E 34 4.3b **¶17191206**
KRSC Event type se.
MOS Error ellipse: s-maj=55.5km s-min=16.0km az=76.0.
ISC I 28 23 06 27.7–.67 43.52N–.05 147.51E–.05 51–5 4.6b,3.6s 280 1-154
NIED I 28 23 06 00 43.30N 147.50E 41 4.3W,3.6s **¶15979148**
SKHL I 28 23 06 26.8–.30 43.42N 147.64E 60–4 4.7b,3.6s
IDC I 28 23 06 26.4–2.3 43.39N 147.65E 44–20 4.4,4.3
JMA I 28 23 06 26.5–.20 43.33N 147.45E 27 4.3,4.3
ISCJB I 28 23 06 27.6–.50 43.53N–.04 147.47E–.04 61–3 4.6b,4.3
MOS I 28 23 06 27.6–1.0 43.82N 147.42E 51 4.8b,4.3
BJI I 28 23 06 29.0 43.68N 147.51E 75 5.0b,4.6b
NEIC I 28 23 06 29.9–.63 43.52N 147.54E 68–5 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ20.00000°,λ7.00000°. NP2:ϕ_s94.00000°,δ87.00000°,λ110.00000°. $M_0$3.38000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=12.0km az=151.0.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.8km az=150.3.
MOS Error ellipse: s-maj=8.4km s-min=5.5km az=107.2.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=3.9km az=151.0.
ISC I 30 14 09 39.4–1.8 43.59N–.09 146.79E–.09 33–7 15 0-4
ISCJB I 30 14 09 39.0–1.3 43.63N–.08 146.79E–.09 40–12 **¶600327060**
JMA I 30 14 09 39.5–.20 43.57N 146.77E 44–3 2.8
SKHL I 30 14 09 39.7–.00 43.62N 146.75E 25–3 4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=6.8km az=142.4.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC I 31 02 11 18.5–2.4 44.05N–.10 147.1E–.10 121–14 20 0-4
ISCJB I 31 02 11 18.8–1.3 44.09N–.09 147.0E–.10 117–8 **¶601990419**
SKHL I 31 02 11 19.2–.20 44.20N 147.00E 104–3 4.9,4.8b
JMA I 31 02 11 20.1–.20 44.01N 146.92E 117–3 2.7,4.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=7.4km az=136.6.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC I 31 09 51 21.1–.91 48.1N–.10 151.5E–.10 250 3.1b 17 4-73
MOS I 31 09 51 20.6–1.4 48.31N 151.15E 243 3.9b **¶17191394**
ISCJB I 31 09 51 21.2–.63 48.28N–.10 151.4E–.10 250 3.0b
IDC I 31 09 51 23.2–2.9 48.42N 151.42E 255–30 3.5,3.0
SKHL I 31 09 51 24.3–.00 48.56N 151.41E 264–5 4.8s,4.1b
ISC Event type ke.
MOS Error ellipse: s-maj=37.6km s-min=14.2km az=69.2.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=7.6km az=137.7.
IDC Error ellipse: s-maj=22.6km s-min=19.9km az=130.0.
ISC I 31 10 11 48.1–.80 46.39N–.08 153.09E–.08 40 3.9b 49 4-78
NIED I 31 10 11 00 46.60N 153.00E 41 4.1W **¶17191396**
SKHL I 31 10 11 45.2–.70 46.21N 153.24E 41–4 4.7b
ISCJB I 31 10 11 46.3–.69 46.43N–.07 152.99E–.10 40 3.8b,3.5s
MOS I 31 10 11 47.3–1.6 46.53N 152.72E 43 4.2b,3.5s
IDC I 31 10 11 49.1–2.9 46.43N 153.02E 47–26 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ0.00000°,λ-157.00000°. NP2:ϕ_s74.00000°,δ90.00000°,λ-90.00000°. $M_0$1.39000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=4.4km az=139.1.
MOS Error ellipse: s-maj=11.5km s-min=9.3km az=52.3.
IDC Error ellipse: s-maj=26.7km s-min=18.7km az=146.0.
ISC I 31 19 49 22.1–1.7 44.35N–.06 148.39E–.09 47–14 3.6b 70 1-115
NIED I 31 19 49 00 44.10N 148.00E 38 3.6W **¶17191431**
IDC I 31 19 49 16.0–.82 44.49N 148.26E 0 3.8,3.6
MOS I 31 19 49 22.9–1.6 44.37N 148.26E 71 4.0b,3.6
ISCJB I 31 19 49 23.2–.86 44.39N–.05 148.22E–.08 65–6 3.4b,3.6
JMA I 31 19 49 23.4–.30 44.07N 148.00E 0 4.6,3.6
SKHL I 31 19 49 24.9–.70 44.37N 148.17E 85–4 5.8s,5.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ16.00000°,λ152.00000°. NP2:ϕ_s358.00000°,δ83.00000°,λ76.00000°. $M_0$3.23000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=21.0km az=138.0.
MOS Error ellipse: s-maj=15.4km s-min=13.1km az=117.4.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.6km az=35.7.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 01 04 29 46.1–.52 46.24N–.06 152.91E–.06 40 4.3b,3.4s 138 4-149
NIED II 01 04 29 00 46.70N 152.80E 29 4.3W,3.4s **¶16002064**
JMA II 01 04 29 42.6–.70 46.73N 152.83E 30 4.6,3.4s
SKHL II 01 04 29 43.9–.50 46.21N 153.06E 45–5 4.9b,3.9s
ISCJB II 01 04 29 44.9–.32 46.30N–.04 152.82E–.04 40 4.2b,3.5s
MOS II 01 04 29 44.7–1.4 46.52N 152.70E 34 4.6b,3.5s
IDC II 01 04 29 47.9–2.4 46.47N 152.75E 46–22 4.1,4.1
NEIC II 01 04 29 47.3–.98 46.47N 152.80E 44–9 4.4b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ50.00000°,λ145.00000°. NP2:ϕ_s50.00000°,δ64.00000°,λ46.00000°. $M_0$3.16000×10^{15}
JMA Error ellipse: s-maj=10.0km s-min=8.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.7km az=151.9.
MOS Error ellipse: s-maj=10.1km s-min=7.6km az=64.7.
IDC Error ellipse: s-maj=17.5km s-min=12.0km az=137.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.2km az=138.0.
KRSC II 01 07 16 15.5–2.2 50.75N 157.84E 99–23 3.6L
¶17191462
KRSC Event type se.
ISC II 01 09 04 16.0–.41 44.82N–.04 146.61E–.04 153–3 4.5b 586 1-153
NIED II 01 09 04 00 44.60N 146.70E 155 4.4W **¶15993434**
BJI II 01 09 04 13.4 44.90N 146.83E 157 5.0b,4.7b
ISCJB II 01 09 04 15.6–.21 44.88N–.03 146.57E–.02 156–2 4.4b,4.7b
MOS II 01 09 04 15.1–1.1 44.89N 146.49E 155 4.5b,4.7b
NEIC II 01 09 04 16.6–.47 44.96N 146.41E 149–4 4.5b,4.7b
SKHL II 01 09 04 16.5–.40 44.74N 146.68E 150–4 5.0b,4.9s
JMA II 01 09 04 16.3–.30 44.64N 146.73E 155–3 4.4,4.9s
IDC II 01 09 04 17.9–1.1 45.00N 146.48E 164–9 4.5,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ13.00000°,λ-171.00000°. NP2:ϕ_s9.00000°,δ88.00000°,λ-77.00000°. $M_0$4.44000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.6km az=160.5.
MOS Error ellipse: s-maj=7.0km s-min=5.2km az=96.7.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.1km az=156.0.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=9.0km az=146.0.
ISC II 01 11 06 14.1–.96 48.81N–.10 155.1E–.10 100 3.3b 38 2-75
ISCJB II 01 11 06 13.1–.71 48.86N–.08 155.0E–.10 100 3.2b **¶17191475**
SKHL II 01 11 06 13.2–4.1 48.69N 155.02E 113–4 5.1s,4.0b
MOS II 01 11 06 15.5–1.1 48.96N 155.13E 127 4.2b,4.0b
KRSC II 01 11 06 16.5–2.0 48.78N 156.21E 98–42 4.2L,4.0b
IDC II 01 11 06 16.6–3.5 49.54N 153.78E 136–33 3.4,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=6.0km az=42.6.
MOS Error ellipse: s-maj=76.5km s-min=9.5km az=71.0.
KRSC Event type se.
IDC Error ellipse: s-maj=33.2km s-min=20.4km az=135.0.
IDC II 01 12 51 33.1–5.6 48.39N 154.14E 141–40 3.5,3.1
¶17191481
IDC Error ellipse: s-maj=136.4km s-min=16.9km az=142.0.
ISC II 01 20 38 30.3–.90 44.22N–.06 147.90E–.07 101–6 3.9b 59 1-79
ISCJB II 01 20 38 29.6–.72 44.26N–.06 147.91E–.09 106–4 3.9b **¶17191513**
MOS II 01 20 38 30.0–1.3 44.39N 147.93E 109 4.1b
JMA II 01 20 38 32.3–.30 44.02N 147.85E 94 3.6
IDC II 01 20 38 32.8–3.4 44.62N 147.85E 103–29 4.0,3.8
SKHL II 01 20 38 32.0–.60 44.42N 147.56E 108–5 5.8s,5.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=6.3km az=42.5.
MOS Error ellipse: s-maj=16.0km s-min=12.3km az=95.3.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=51.6km s-min=17.1km az=168.0.
ISC II 02 00 41 01.1–2.3 44.39N–.07 148.4E–.10 5–13 27 1-8
NIED II 02 00 41 00 44.10N 148.20E 62 3.7W **¶600524484**
JMA II 02 00 41 03.0–.40 44.09N 148.23E 0 4.0
SKHL II 02 00 41 04.5–.20 44.50N 148.35E 39–5 4.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ24.00000°,λ-156.00000°. NP2:ϕ_s164.00000°,δ80.00000°,λ-68.00000°. $M_0$4.40000×10^{14}
JMA Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.
ISC II 02 07 31 45.1–4.6 48.8N–.30 155.0E–.50 35 20 2-8
MOS II 02 07 31 40.0–2.5 48.72N 155.91E 7 4.5b **¶17191529**
KRSC II 02 07 31 40.0–1.3 48.72N 155.91E 7–20 4.3L
SKHL II 02 07 31 41.6–1.0 48.54N 156.34E 30–5 4.3L
ISC Event type se.
MOS Error ellipse: s-maj=99.9km s-min=18.2km az=81.3.
KRSC Event type se.
ISC II 02 14 02 10.6–3.7 44.3N–.10 148.1E–.20 30–27 15 1-5
JMA II 02 14 02 12.6–.30 44.08N 148.03E 67 2.8 **¶600524666**
SKHL II 02 14 02 12.6–.50 44.41N 148.04E 55 4.0b
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=3.2km az=-1.0.
SKHL II 02 14 21 06.0–.60 47.17N 152.73E 33–1 4.3b
¶600774588
SKHL II 03 17 39 27.0–.60 44.32N 148.90E 30 3.8b
¶600774590
ISC II 03 20 38 51.9–2.2 43.7N–.10 147.4E–.10 51–18 20 0-4
ISCJB II 03 20 38 52.1–1.3 43.73N–.09 147.3E–.10 57–11 **¶600525159**
JMA II 03 20 38 53.0–.20 43.59N 147.28E 42 2.9
SKHL II 03 20 38 53.8–.10 43.73N 147.29E 50 4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=7.1km az=141.0.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
KRSC II 04 03 29 40.6–1.3 49.67N 156.70E 15–19 3.7L
¶17191630
KRSC Event type se.
ISC II 04 03 29 50.4–1.7 43.41N–.08 146.03E–.06 90–10 24 0-13
ISCJB II 04 03 29 49.7–.99 43.41N–.07 146.04E–.07 94–7 **¶600525252**
JMA II 04 03 29 50.0–.10 43.41N 146.03E 94–1 2.9
SKHL II 04 03 29 50.6–.30 43.39N 145.99E 87–4 5.3s,5.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.5km az=147.8.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC II 04 06 14 03.6–20 46.25N 149.43E 404–208 3.5,2.9
¶17191638
IDC Error ellipse: s-maj=107.8km s-min=31.5km az=173.0.
ISC II 04 10 38 54.1–3.3 44.3N–.10 147.9E–.20 69–28 12 1-3
ISCJB II 04 10 38 54.8–2.0 44.4N–.10 147.7E–.20 71–18 **¶600525329**
JMA II 04 10 38 55.6–.20 44.08N 147.78E 90 2.4
SKHL II 04 10 38 55.3–.70 44.37N 147.86E 68–5 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.5km s-min=8.8km az=35.9.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
SKHL II 04 11 46 35.4–.30 44.36N 148.88E 30 4.3b
¶600774593
JMA II 04 23 09 32.4–.50 43.79N 147.88E 8 3.2
SKHL II 04 23 09 34.2–.30 44.19N 147.88E 25–1 3.6b **¶600525550**
JMA Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
ISC II 05 01 59 23.2–1.9 50.0N–.10 157.01E–.06 41 63 1-74
KRSC II 05 01 59 22.7–3.1 50.17N 157.36E 50–24 4.7L **¶17191707**
MOS II 05 01 59 22.7–2.5 50.17N 157.36E 51 4.3b
ISC Event type se.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=30.4km s-min=5.6km az=80.6. Felt (II) at Severo-Kuril's.
Moment Tensor Solution.
ISC II 05 06 58 14.4–1.2 49.7N–.10 156.55E–.08 54 3.6b 43 1-74
IDC II 05 06 58 04.1–1.0 49.15N 156.23E 0 3.8,3.6 **¶17191722**
MOS II 05 06 58 05.2–1.5 49.28N 156.16E 22 4.0b,3.6
ISCJB II 05 06 58 12.8–.80 49.69N–.05 156.5E–.10 54 3.7s,3.6b
KRSC II 05 06 58 12.0–4.9 49.79N 157.38E 15–7 4.5L,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=34.8km s-min=20.8km az=129.0.
MOS Error ellipse: s-maj=33.1km s-min=6.0km az=78.1.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=7.4km az=18.4.
KRSC Event type se.
ISC II 05 08 34 36.8–1.4 48.4N–.10 155.7E–.10 35 3.4b 40 2-75
IDC II 05 08 34 27.1–1.8 48.33N 154.79E 0 3.5,3.3 **¶17191725**
ISCJB II 05 08 34 34.5–1.0 48.36N–.08 155.7E–.10 33 4.0s,3.3b
MOS II 05 08 34 34.8–2.5 48.51N 156.37E 6 4.0b,3.3b
KRSC II 05 08 34 34.8–2.1 48.51N 156.37E 6–5 4.2L,3.3b
SKHL II 05 08 34 34.3–.20 48.27N 155.83E 60–4 4.4b,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=58.5km s-min=24.0km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=6.4km az=42.3.
MOS Error ellipse: s-maj=44.1km s-min=11.1km az=80.4.
KRSC Event type se.
KRSC II 06 20 44 48.6–1.7 49.45N 156.90E 40–24 4.2L
MOS II 06 20 44 48.5–2.4 49.45N 156.90E 41 4.4b **¶16007788**
KRSC Event type se.
MOS Error ellipse: s-maj=95.5km s-min=10.6km az=80.2.
ISC II 06 21 09 42.4–1.2 45.18N–.08 150.29E–.10 100 3.5b 36 2-80
ISCJB II 06 21 09 42.8–.63 45.33N–.07 150.15E–.08 100 3.5b **¶17191830**
MOS II 06 21 09 44.8–.95 45.64N 149.91E 110 4.0b
SKHL II 06 21 09 45.1–.60 45.30N 149.95E 120–5 5.2s,4.7b
JMA II 06 21 09 48.1–.40 44.85N 149.88E 114 3.3,4.7b
IDC II 06 21 09 50.1–6.3 45.89N 149.96E 130–44 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.2km az=144.9.

MOS Error ellipse: s-maj=23.3km s-min=14.3km az=71.2.
JMA Error ellipse: s-maj=5.6km s-min=4.7km az=-1.0.
IDC Error ellipse: s-maj=63.5km s-min=19.7km az=173.0.
KRSC II 06 21 34 39.4–2.1 49.29N 156.92E 15–14 4.1L
MOS II 06 21 34 39.4–2.1 49.29N 156.92E 15 4.2b **¶17191832**
KRSC Event type se.
MOS Error ellipse: s-maj=91.3km s-min=9.6km az=79.1.
ISC II 07 00 21 00.2–2.4 47.2N–.40 152.6E–.30 67 3.7b 10 7-71
ISCJB II 07 00 20 58.4–1.8 47.2N–.30 152.6E–.30 67 3.6b **¶16168813**
IDC II 07 00 21 01.1–4.7 47.20N 152.58E 75–38 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=50.0km s-min=14.5km az=146.8.
IDC Error ellipse: s-maj=67.5km s-min=21.6km az=155.0.
KRSC II 08 19 22 40.0–.59 49.76N 156.76E 22–14 3.9L
¶16017964
KRSC Event type se.
ISC II 09 04 17 50.2–.51 44.42N–.04 146.87E–.05 112–4 3.9b 107 1-115
NIED II 09 04 17 00 44.30N 146.90E 110 4.1W **¶17191929**
MOS II 09 04 17 49.0–1.2 44.46N 146.86E 117 4.0b
ISCJB II 09 04 17 49.3–.36 44.41N–.03 146.91E–.05 119–3 3.9b
IDC II 09 04 17 50.5–.71 44.52N 146.80E 112–5 4.0,3.9
SKHL II 09 04 17 50.3–.50 44.36N 146.88E 119–5 4.9b,4.2s
JMA II 09 04 17 51.4–.50 44.29N 146.91E 103–4 3.9,4.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ29.00000°,λ-162.00000°. NP2:ϕ_s353.00000°,δ81.00000°,λ-62.00000°. M_o1.45000×10^{15}
MOS Error ellipse: s-maj=10.9km s-min=7.1km az=80.1.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=38.2.
IDC Error ellipse: s-maj=15.5km s-min=10.3km az=154.0.
JMA Error ellipse: s-maj=2.2km s-min=4.0km az=-1.0.
KRSC II 09 05 01 23.4–.42 50.70N 156.71E 126–6 3.6L
¶16021374
KRSC Event type se.
ISC II 09 05 56 38.8–.53 48.90N–.06 153.67E–.06 140 4.0b 127 2-148
ISCJB II 09 05 56 37.9–.37 48.86N–.05 153.65E–.07 140 3.9b **¶16021375**
SKHL II 09 05 56 37.8–.80 48.80N 153.99E 156–5 5.3s,5.2b
MOS II 09 05 56 39.9–.98 49.04N 153.54E 174 4.0b,5.2b
KRSC II 09 05 56 39.0–1.7 48.60N 154.75E 211–23 4.5L,5.2b
IDC II 09 05 56 41.9–.90 49.22N 153.31E 176–8 4.2,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=2.9km az=138.0.
MOS Error ellipse: s-maj=11.0km s-min=4.4km az=66.4.
KRSC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=8.4km az=147.0.
ISC II 09 17 34 32.9–1.5 48.8N–.10 155.3E–.10 51 39 2-15
KRSC II 09 17 34 30.9–1.5 48.95N 154.66E 60–22 4.1L **¶16021376**
MOS II 09 17 34 30.9–2.5 48.95N 154.66E 60 4.3b
ISCJB II 09 17 34 31.7–.98 48.74N–.10 155.2E–.20 51 4.3b
SKHL II 09 17 34 34.2–.50 49.00N 154.86E 20–5 4.4b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=59.5km s-min=9.6km az=65.7.
ISCJB Event type se. Error ellipse: s-maj=19.9km s-min=4.8km az=42.4.
ISC II 09 18 24 37.9–2.2 43.32N–.10 146.86E–.09 30–12 22 1-13
ISCJB II 09 18 24 37.7–1.3 43.34N–.08 146.84E–.09 47–13 **¶600527539**
JMA II 09 18 24 38.4–.20 43.31N 146.79E 43–2 2.9
SKHL II 09 18 24 38.1–.40 43.31N 146.90E 40–2 4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=6.0km az=142.1.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
SKHL II 09 18 49 46.6–.40 44.50N 149.50E 51–1 3.8b
¶600774604
KRSC II 09 20 52 42.5–1.5 49.42N 155.82E 224–20 3.7L
¶16021378
KRSC Event type se.
ISC II 09 23 21 35.0–.56 46.64N–.05 151.24E–.06 166 3.7b 73 3-82
ISCJB II 09 23 21 34.7–.41 46.69N–.04 151.30E–.06 166 3.7b **¶16168829**
MOS II 09 23 21 36.9–1.3 46.84N 151.06E 194 4.0b
SKHL II 09 23 21 36.4–.20 46.69N 151.16E 175–5 5.8s,4.8b
IDC II 09 23 21 37.5–1.7 46.94N 150.89E 177–15 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.9km az=137.8.
MOS Error ellipse: s-maj=11.5km s-min=8.3km az=75.6.
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=140.0.
ISC II 10 08 10 32.5–3.2 44.06N–.09 148.2E–.10 15–12 22 1-5
JMA II 10 08 10 34.8–.30 43.87N 147.86E 0 3.8 **¶600527700**
SKHL II 10 08 10 34.8–.20 44.04N 148.24E 45–5 4.4b
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 10 09 14 01.4–.42 47.30N–.05 153.34E–.04 65–3 4.6b 665 4-148
NIED II 10 09 13 00 47.20N 153.80E 32 4.4W **¶16019820**
JMA II 10 09 13 56.1–.90 47.19N 153.81E 30 4.7
SKHL II 10 09 13 57.8–.00 47.17N 153.77E 50–5 5.8b,5.3s
BJI II 10 09 13 57.0 47.59N 153.77E 68 4.9b,4.6s
MOS II 10 09 13 59.5–1.1 47.42N 153.15E 58 4.8b,4.6s
ISCJB II 10 09 14 00.0–.47 47.30N–.03 153.24E–.03 65–4 4.5b,4.6s
IDC II 10 09 14 01.5–.63 47.48N 153.06E 61–5 4.3,4.2
NEIC II 10 09 14 05.6–.69 47.50N 153.02E 95–5 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ62.00000°,λ164.00000°. NP2:ϕ_s322.00000°,δ76.00000°,λ29.00000°. M_o4.19000×10^{15}
JMA Error ellipse: s-maj=8.9km s-min=9.1km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=5.4km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.0km az=153.6.
IDC Error ellipse: s-maj=15.2km s-min=9.7km az=158.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=3.6km az=159.0.
ISC II 10 09 27 46.2–.57 45.82N–.05 151.52E–.05 67–4 4.5b 338 3-150
NIED II 10 09 27 00 45.70N 151.90E 29 4.5W **¶16019821**
JMA II 10 09 27 39.9–.90 45.71N 151.95E 30 4.8
SKHL II 10 09 27 42.6–.80 45.70N 151.82E 65–5 6.2b,5.5s
MOS II 10 09 27 42.6–.99 45.88N 151.53E 47 4.8b,5.5s
BJI II 10 09 27 42.6 46.01N 151.90E 72 5.0b,4.7b
ISCJB II 10 09 27 42.2–.49 45.80N–.03 151.57E–.04 44–4 4.5b,4.0s
IDC II 10 09 27 45.4–2.3 45.91N 151.42E 58–20 4.3,4.2
NEIC II 10 09 27 47.1–.66 45.96N 151.44E 70–5 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ48.00000°,λ-179.00000°. NP2:ϕ_s140.00000°,δ89.00000°,λ-42.00000°. M_o6.55000×10^{15}
JMA Error ellipse: s-maj=7.8km s-min=8.5km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=5.4km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.4km az=143.4.
IDC Error ellipse: s-maj=14.1km s-min=9.5km az=150.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=3.8km az=149.0.
SKHL II 10 10 05 15.0–.80 45.49N 151.68E 60–5 4.6b
JMA II 10 10 05 11.9–.80 45.78N 151.77E 30 4.1 **¶600527735**
JMA Error ellipse: s-maj=8.9km s-min=8.5km az=-1.0.
ISC II 10 10 14 34.5–2.3 43.7N–.10 147.3E–.10 80–13 23 0-5
ISCJB II 10 10 14 35.0–1.3 43.74N–.09 147.2E–.10 81–9 **¶600527738**
SKHL II 10 10 14 35.8–.60 43.76N 147.28E 81–4 5.3s,5.0b
JMA II 10 10 14 36.4–.30 43.63N 147.17E 75 2.7,5.0b
ISC Event type se.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=6.8km az=141.6.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 11 15 18 36.5–4.2 45.2N–.10 151.3E–.20 36 23 2-9
SKHL II 11 15 18 34.9–.20 45.66N 151.34E 35–1 4.0b **¶600774649**
ISC Event type ke.
ISC II 12 17 19 39.4–1.6 48.3N–.10 155.4E–.10 36 3.5b 39 2-75
IDC II 12 17 19 32.9–1.0 48.15N 155.05E 0 3.9,3.6 **¶16022715**
MOS II 12 17 19 36.7–1.4 48.26N 155.10E 43 3.9b,3.6
SKHL II 12 17 19 36.6–4.2 48.24N 155.55E 57–3 4.4b,3.6
ISCJB II 12 17 19 37.2–.77 48.33N–.07 155.3E–.10 36 3.5b,3.6
KRSC II 12 17 19 37.6–1.3 48.29N 156.12E 40–16 4.4L,3.6
ISC Event type se.
IDC Error ellipse: s-maj=38.5km s-min=23.6km az=122.0.
MOS Error ellipse: s-maj=48.8km s-min=7.2km az=75.2.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=6.0km az=35.6.
KRSC Event type se.
ISC II 12 18 25 24.2–.92 45.83N–.07 151.40E–.08 48 3.4b 42 3-79
IDC II 12 18 25 16.8–2.1 45.30N 151.97E 0 3.8,3.5 **¶17192122**
ISCJB II 12 18 25 22.7–.61 45.89N–.05 151.26E–.07 48 3.3b,3.5
SKHL II 12 18 25 24.9–.80 45.91N 151.38E 75–5 4.7b,3.5
MOS II 12 18 25 26.1–.93 46.01N 151.08E 86 4.1b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=84.1km s-min=30.7km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.4km az=138.5.
MOS Error ellipse: s-maj=60.2km s-min=19.3km az=49.1.
ISC II 12 22 16 08.3–.60 46.38N–.07 153.15E–.06 40 4.1b 93 4-79
IDC II 12 22 16 03.0–.82 46.45N 153.09E 0 4.1,4.0 **¶16168845**
SKHL II 12 22 16 05.6–.40 46.36N 153.28E 33–5 4.6b,4.0
ISCJB II 12 22 16 06.6–.40 46.37N–.05 153.06E–.05 40 4.0b,3.0s
MOS II 12 22 16 06.0–.82 46.45N 153.02E 33 4.2b,3.0s
NEIC II 12 22 16 09.1–.90 46.44N 153.03E 45–7 4.1b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=14.3km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.5km az=153.0.
MOS Error ellipse: s-maj=11.3km s-min=7.8km az=78.1.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=4.5km az=153.0.
ISC II 14 05 11 48.7–2.5 43.36N–.10 147.7E–.10 45 26 1-5
JMA II 14 05 11 50.9–.20 43.39N 147.42E 48 3.7 **¶600528928**
SKHL II 14 05 11 51.0–.70 43.47N 147.55E 60–5 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC II 15 15 25 48.6–3.2 43.9N–.10 148.0E–.10 27–16 13 1-4
SKHL II 15 15 25 48.6–.50 43.78N 148.04E 55 3.3b **¶600529339**
JMA II 15 15 25 49.0–.30 43.57N 147.74E 9 2.6
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
KRSC II 16 00 55 50.7–1.9 49.55N 156.16E 74–20 3.6L
¶16033436
KRSC Event type se.
KRSC II 16 08 28 10.6–.91 49.78N 156.64E 59–20 3.8L
¶16033437
KRSC Event type se.
ISC II 17 02 22 04.2–2.6 43.7N–.10 147.8E–.10 35 15 1-5
JMA II 17 02 22 02.5–.40 43.57N 147.64E 11 3.2 **¶600529853**
SKHL II 17 02 22 05.3–.10 43.81N 147.68E 28–1 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
ISC II 17 09 56 09.1–2.4 43.51N–.10 147.7E–.10 45 24 1-5
JMA II 17 09 56 10.5–.20 43.55N 147.55E 40 3.2 **¶600529945**
SKHL II 17 09 56 10.9–.30 43.61N 147.65E 60–2 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
KRSC II 17 14 49 30.9–2.0 49.36N 156.79E 6–3 3.8L
¶16033441
KRSC Event type se.
SKHL II 18 07 53 44.2–1.2 47.30N 154.03E 31–4 4.7b
¶600774655
KRSC II 18 10 06 41.0–1.8 49.53N 156.51E 17–24 3.9L
¶16033526
KRSC Event type se.
ISC II 18 21 52 32.0–.91 48.1N–.10 154.7E–.10 51 3.7b 53 3-78
MOS II 18 21 52 26.5–1.2 47.97N 154.42E 27 4.0b **¶16398512**
KRSC II 18 21 52 29.3–1.2 48.00N 155.82E 28–9 4.4L
ISCJB II 18 21 52 30.8–.70 48.20N–.08 154.6E–.10 51 3.6b,3.2s
SKHL II 18 21 52 33.8–4.8 48.25N 154.57E 77–5 4.5b,3.2s
IDC II 18 21 52 37.8–2.7 48.49N 154.35E 92–24 3.6,3.5
ISC Event type se.
MOS Error ellipse: s-maj=26.1km s-min=6.9km az=74.5.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=5.5km az=43.3.
IDC Error ellipse: s-maj=29.8km s-min=13.6km az=161.0.
ISC II 18 21 53 23.7–.54 48.48N–.08 154.29E–.07 100 3.9b 56 3-79
ISCJB II 18 21 53 22.0–.40 48.46N–.06 154.33E–.08 100 3.9b **¶17192506**
NEIC II 18 21 53 22.4–.60 48.50N 154.34E 85–5 4.0b
IDC II 18 21 53 22.4–3.2 48.48N 154.32E 85–26 3.8s,3.8
SKHL II 18 21 53 24.2–4.7 48.53N 154.29E 110–5 4.9s,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=5.4km az=144.3.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=3.9km az=147.0.
IDC Error ellipse: s-maj=54.7km s-min=19.6km az=140.0.
ISC II 19 08 18 26.2–4.7 44.5N–.10 148.5E–.20 28–28 11 1-5
SKHL II 19 08 18 27.6–.10 44.48N 148.46E 48–4 4.1b **¶600530569**
JMA II 19 08 18 28.3–.30 44.04N 148.49E 58 3.0
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.4km az=-1.0.
ISC II 20 19 13 44.2–3.3 44.2N–.10 147.9E–.20 12–13 12 1-4
JMA II 20 19 13 45.2–.30 43.90N 147.62E 0 3.4 **¶600531133**
SKHL II 20 19 13 45.8–.80 44.18N 147.89E 40 4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 21 16 58 06.4–2.5 43.42N–.10 147.0E–.10 30–12 18 0-2
ISCJB II 21 16 58 06.3–1.5 43.45N–.08 147.03E–.10 43–19 **¶600531386**
JMA II 21 16 58 06.2–.20 43.41N 147.00E 38–3 3.0
SKHL II 21 16 58 07.2–.30 43.45N 147.03E 41 4.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=7.9km az=141.5.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC II 21 17 51 49.4–2.3 43.9N–.10 147.7E–.10 63 24 1-5
JMA II 21 17 51 51.3–.30 43.82N 147.40E 21 3.4 **¶600531395**
SKHL II 21 17 51 52.0–.40 44.01N 147.50E 45 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 22 01 55 46.6–3.6 50.4N–.30 156.5E–.20 72 16 0-7
MOS II 22 01 55 42.1–1.3 50.16N 156.85E 24 4.2b **¶16153237**
KRSC II 22 01 55 44.9–.98 50.39N 156.93E 31–17 3.9L
ISC Event type se.
MOS Error ellipse: s-maj=44.3km s-min=9.8km az=81.0.
KRSC Event type se.
ISC II 22 14 53 06.5–.73 49.37N–.08 156.07E–.09 54 3.7b 60 1-75
IDC II 22 14 52 59.4–.80 49.47N 155.69E 0 3.9,3.9L **¶16153241**
ISCJB II 22 14 53 05.1–.51 49.42N–.05 155.9E–.10 54 3.6b,3.9L
MOS II 22 14 53 05.2–1.2 49.41N 155.83E 61 4.0b,3.9L
KRSC II 22 14 53 05.2–1.9 49.49N 156.67E 15–7 4.4L,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=14.5km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=3.4km az=36.4.
MOS Error ellipse: s-maj=16.6km s-min=5.7km az=72.8.
KRSC Event type se.
ISC II 22 16 20 27.1–2.3 49.7N–.10 156.2E–.10 54 38 1-8
MOS II 22 16 20 26.1–1.2 49.65N 156.19E 51 4.3b **¶16153242**
ISCJB II 22 16 20 27.1–1.1 49.73N–.09 156.2E–.20 54 4.3b
KRSC II 22 16 20 27.3–2.3 49.83N 156.79E 15–7 4.2L
ISC Event type se.
MOS Error ellipse: s-maj=47.2km s-min=7.8km az=75.7.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=7.7km az=33.6.
KRSC Event type se.
ISC II 23 03 58 29.7–.95 46.21N–.09 150.2E–.10 152 3.5b 44 2-64
ISCJB II 23 03 58 28.7–.83 46.30N–.07 150.2E–.10 152 3.5b **¶17192734**
SKHL II 23 03 58 29.1–.40 46.20N 150.24E 161–6 4.9s,4.3b
MOS II 23 03 58 31.0–1.6 46.58N 149.64E 167 3.9b,4.3b
JMA II 23 03 58 34.6–.40 45.58N 150.08E 176 3.8,4.3b

IDC II 23 03 58 35.3–2.2 46.92N 149.51E 181–21 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=6.0km az=32.2.
MOS Error ellipse: s-maj=35.1km s-min=14.0km az=63.9.
JMA Error ellipse: s-maj=5.6km s-min=6.2km az=-1.0.
IDC Error ellipse: s-maj=44.6km s-min=15.6km az=144.0.
ISC II 23 08 48 38.6–.69 49.43N–.10 155.12E–.09 100 3.8b 73 1-77
ISCJB II 23 08 48 38.0–.58 49.49N–.08 155.0E–.10 100 3.9b **¶16157611**
KRSC II 23 08 48 38.8–2.5 49.21N 156.74E 46–25 4.7L
MOS II 23 08 48 40.5–1.3 49.73N 154.98E 128 3.9b
IDC II 23 08 48 40.8–.89 49.75N 154.85E 110–7 3.9,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=3.8km az=42.3.
KRSC Event type se.
MOS Error ellipse: s-maj=17.4km s-min=5.7km az=67.8.
IDC Error ellipse: s-maj=21.5km s-min=11.3km az=154.0.
ISC II 23 09 00 51.1–2.2 43.68N–.10 147.4E–.10 45 22 0-8
ISCJB II 23 09 00 51.2–1.2 43.74N–.08 147.31E–.10 45 **¶600531893**
JMA II 23 09 00 51.6–.30 43.66N 147.23E 31 2.9
SKHL II 23 09 00 51.7–.50 43.73N 147.32E 50–3 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.6km az=137.7.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 24 06 08 44.8–3.5 43.7N–.10 147.9E–.10 24–18 12 1-5
JMA II 24 06 08 45.6–.40 43.64N 147.69E 15 3.2 **¶600532156**
SKHL II 24 06 08 45.8–.20 43.71N 147.89E 30–2 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
ISC II 25 22 04 35.2–4.0 44.5N–.20 148.2E–.30 112–25 11 1-3
SKHL II 25 22 04 36.5–.90 44.55N 148.18E 108 4.7s,4.2b **¶600532625**
JMA II 25 22 04 37.0–.40 44.35N 148.08E 107 3.0,4.2b
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0.
ISC II 26 04 30 22.1–2.2 43.4N–.10 147.4E–.10 50–14 3.7b 30 1-70
MOS II 26 04 30 11.9–1.4 42.72N 148.04E 35 4.0b **¶17192883**
IDC II 26 04 30 14.6–18 43.81N 147.99E 0 3.9,3.8
JMA II 26 04 30 23.7–.30 43.36N 147.20E 34–5 3.8,3.8
SKHL II 26 04 30 23.4–.80 43.46N 147.21E 71–4 4.6b,3.8
ISC Event type ke.
MOS Error ellipse: s-maj=48.4km s-min=16.0km az=117.3.
IDC Error ellipse: s-maj=420.6km s-min=58.4km az=159.0.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC II 26 09 42 43.6–3.8 44.61N–.09 148.6E–.20 55 20 1-7
SKHL II 26 09 42 44.7–1.1 44.70N 148.69E 55 4.0b **¶600532769**
JMA II 26 09 42 45.4–.50 44.50N 148.49E 83 3.0
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0.
KRSC II 26 22 10 58.4–1.1 50.36N 157.30E 31–23 3.8L
¶16160699
KRSC Event type se.
SKHL II 27 00 38 15.9–.20 45.06N 151.90E 30–4 4.3b
¶600774663
ISC II 27 08 59 20.2–1.9 43.40N–.09 146.54E–.07 80–12 23 1-4
ISCJB II 27 08 59 19.9–1.1 43.43N–.08 146.50E–.08 81–8 **¶600534348**
JMA II 27 08 59 21.0–.20 43.43N 146.44E 81–2 3.0
SKHL II 27 08 59 21.0–.40 43.45N 146.51E 83–1 5.1s,4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=5.9km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC II 27 10 12 12.0–.83 47.23N–.06 153.98E–.05 45–6 4.6b,3.9s 227 4-148
IDC II 27 10 12 05.8–.63 47.20N 153.86E 0 4.1,4.0 **¶16160488**
BJI II 27 10 12 07.4 47.24N 154.53E 43 5.0b,4.5s
ISCJB II 27 10 12 09.2–.63 47.19N–.04 153.98E–.05 33–5 4.5b,3.8s
MOS II 27 10 12 11.5–1.4 47.22N 153.89E 52 4.7b,3.8s
SKHL II 27 10 12 12.0–.70 47.21N 153.99E 63–4 5.0b,4.9s
NEIC II 27 10 12 13.3–.67 47.28N 153.90E 53–6 4.8b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=13.5km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=3.6km az=147.0.
MOS Error ellipse: s-maj=7.8km s-min=6.2km az=87.6.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=3.9km az=148.0.
ISC II 27 16 46 49.5–2.6 43.8N–.10 147.5E–.10 34–3 18 0-4
ISCJB II 27 16 46 49.0–1.3 43.79N–.08 147.5E–.10 40–22 **¶600534591**
JMA II 27 16 46 49.7–.20 43.64N 147.36E 27 3.0
SKHL II 27 16 46 49.8–.40 43.77N 147.43E 50 3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=7.4km az=140.3.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC II 27 22 46 29.6–1.4 43.31N–.06 146.86E–.06 41–12 3.6b 70 1-79
NIED II 27 22 46 00 43.20N 147.00E 23 3.8W **¶16168944**
JMA II 27 22 46 26.8–.30 43.23N 147.01E 40–4 4.0
ISCJB II 27 22 46 28.7–.82 43.28N–.05 146.88E–.07 52–6 3.7b
SKHL II 27 22 46 28.8–.90 43.27N 146.93E 56–4 4.7b
MOS II 27 22 46 29.8–1.2 43.48N 146.70E 56 4.1b
IDC II 27 22 46 30.0–2.8 43.27N 146.80E 47–26 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:φs223.00000°,δ26.00000°,λ97.00000°. NP2:φs35.00000°,δ64.00000°,λ87.00000°. M0 5.77000$\times10^{14}$
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.2km az=137.4.
MOS Error ellipse: s-maj=15.2km s-min=9.0km az=104.0.
IDC Error ellipse: s-maj=21.3km s-min=17.4km az=106.0.
ISC II 28 12 41 06.1–1.7 47.1N–.10 154.2E–.20 27 3.8b 22 4-79
ISCJB II 28 12 41 04.7–1.7 47.2N–.10 154.1E–.20 27 3.8b **¶17192996**
IDC II 28 12 41 08.1–6.4 47.83N 153.30E 0 3.8,3.8b
MOS II 28 12 41 09.3–1.5 47.38N 153.61E 54 4.0b,3.8b
SKHL II 28 12 41 12.6–6.5 47.42N 153.42E 70–4 4.0b,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.1km s-min=5.8km az=41.7.
IDC Error ellipse: s-maj=139.4km s-min=30.6km az=143.0.
MOS Error ellipse: s-maj=21.3km s-min=13.7km az=65.1.
ISC II 28 13 05 28.4–.49 46.16N–.04 152.34E–.03 30–2 5.0b,4.5s 656 3-149
NIED II 28 13 05 00 46.30N 152.50E 32 4.9W,4.5s **¶16166760**
BJI II 28 13 05 26.2 46.28N 152.44E 33 5.1b,5.0b
ISCJB II 28 13 05 27.4–.70 46.18N–.02 152.24E–.03 31–4 5.0b,4.5s
JMA II 28 13 05 27.1–.60 46.30N 152.45E 30 5.1,4.5s
GCMT II 28 13 05 28.7–.20 46.27N 152.38E 34–0 5.1W,4.5s
NEIC II 28 13 05 28.7–.32 46.22N 152.14E 28–2 4.9b,4.5s
SKHL II 28 13 05 29.1–.60 46.09N 152.49E 60–5 5.9b,5.4
MOS II 28 13 05 29.7–1.1 46.27N 152.15E 50 5.2b,4.3s
IDC II 28 13 05 29.1–2.5 46.27N 152.16E 32–17 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:φs231.00000°,δ60.00000°,λ-178.00000°. NP2:φs140.00000°,δ88.00000°,λ-30.00000°. M0 2.42000$\times10^{16}$
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.4km az=147.0.
JMA Error ellipse: s-maj=5.6km s-min=5.4km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c74; s91,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; Mrr4.27±.18 Mθθ-1.62±.13; Mφφ-2.65±.12; Mrθ0.57±.13; Mθφ-2.41±.07; Mφr2.26±.12; Best double couple: NP1:φs27.00000°,δ59.00000° ,λ77.00000°. NP2:φs231.00000°,δ33.00000°,λ110.00000°. Principal axes: T 4.9460,Plg73.0000°,Azm265.0000°; N 0.1410,Plg11.0000°,Azm34.0000° ; P -5.0870,Plg13.0000°,Azm127.0000° M0 5.01700$\times10^{16}$
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.1km az=152.0.
MOS Error ellipse: s-maj=6.1km s-min=4.3km az=107.8.
IDC Error ellipse: s-maj=13.6km s-min=10.5km az=142.0.
ISC II 28 14 34 23.4–.64 46.05N–.06 152.40E–.06 41 3.9b,3.1s 99 3-79
NIED II 28 14 34 00 46.20N 152.50E 8 4.0W,3.1s **¶16168955**
ISCJB II 28 14 34 21.9–.46 46.04N–.04 152.38E–.06 41 3.8b,3.2s
JMA II 28 14 34 21.2–.80 46.17N 152.54E 30 4.7,3.2s
SKHL II 28 14 34 22.0–.10 45.84N 152.62E 54–5 4.7b,3.2s
IDC II 28 14 34 26.8–2.9 46.30N 152.29E 66–24 3.8,3.7
MOS II 28 14 34 27.3–1.6 46.13N 151.88E 82 4.0b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:φs208.00000°,δ16.00000°,λ124.00000°. NP2:φs353.00000°,δ77.00000°,λ81.00000°. M0 1.15000$\times10^{15}$
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.4km az=138.4.
JMA Error ellipse: s-maj=10.0km s-min=8.5km az=-1.0.
IDC Error ellipse: s-maj=23.8km s-min=15.9km az=141.0.
MOS Error ellipse: s-maj=9.7km s-min=8.6km az=97.2.
ISC II 28 15 35 22.1–3.4 44.34N–.06 148.51E–.08 28–24 3.1b 45 1-82
MOS II 28 15 35 21.6–.24 44.33N 148.65E 33 4.2b **¶17193005**
JMA II 28 15 35 23.8–.30 44.03N 148.17E 0 4.1
SKHL II 28 15 35 24.5–.70 44.48N 148.39E 65–2 4.7b
IDC II 28 15 35 27.6–5.1 44.63N 148.25E 75–48 3.3,3.3
ISC Event type ke.
MOS Error ellipse: s-maj=18.8km s-min=15.7km az=125.0.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=44.5km s-min=24.7km az=120.0.
ISC III 01 09 26 04.8–.74 45.04N–.07 150.70E–.07 39 3.8b 54 2-80
ISCJB III 01 09 26 05.7–.56 45.18N–.06 150.65E–.06 39 3.7b **¶17193058**
JMA III 01 09 26 10.6–.40 45.47N 150.16E 30 4.1
MOS III 01 09 26 10.4–.91 45.33N 150.30E 100 4.3b
SKHL III 01 09 26 11.9–.10 45.33N 150.18E 105–2 5.6s,4.7b
IDC III 01 09 26 12.4–4.1 45.72N 150.17E 92–46 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.0km az=148.6.
JMA Error ellipse: s-maj=5.6km s-min=3.9km az=-1.0.
MOS Error ellipse: s-maj=13.4km s-min=11.5km az=144.1.
IDC Error ellipse: s-maj=65.6km s-min=19.7km az=1.0.
ISC III 01 17 52 06.2–.71 48.43N–.07 154.92E–.08 43 3.9b,3.4s 89 2-80
IDC III 01 17 52 00.7–.88 48.45N 154.69E 0 3.9,3.8 **¶16193833**
NEIC III 01 17 52 02.0–.77 48.35N 154.69E 10 4.0b,3.8
MOS III 01 17 52 04.5–1.4 48.48N 154.73E 36 4.1b,3.8
ISCJB III 01 17 52 04.4–.50 48.36N–.05 155.00E–.08 43 3.8b,3.3s
SKHL III 01 17 52 04.2–.70 48.18N 155.32E 57–4 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=13.6km az=113.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=8.1km az=129.0.
MOS Error ellipse: s-maj=9.3km s-min=6.8km az=72.9.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=4.1km az=40.6.
KRSC III 02 05 10 02.9–1.3 50.07N 157.25E 25–23 4.1L
MOS III 02 05 10 02.8–2.5 50.07N 157.25E 25 4.2b **¶16193900**
KRSC Event type se.
MOS Error ellipse: s-maj=51.3km s-min=12.5km az=87.1.
ISC III 02 05 59 51.8–.42 44.38N–.05 149.14E–.04 40–3 4.8b,4.0s 798 1-152
NIED III 02 05 59 00 44.50N 149.10E 44 4.7W,4.0s **¶16170175**
BJI III 02 05 59 48.8 44.50N 149.61E 55 5.0b,4.7b
ISCJB III 02 05 59 50.4–.38 44.42N–.02 149.07E–.02 39–3 4.8b,4.0s
MOS III 02 05 59 51.6–1.0 44.55N 149.03E 45 5.0b,4.0s
JMA III 02 05 59 51.7–.40 44.50N 149.09E 30 5.1,4.0s
NEIC III 02 05 59 52.8–.43 44.47N 148.98E 42–3 4.9b,4.0s
SKHL III 02 05 59 52.6–.30 44.45N 149.17E 52–3 5.2s,5.2b
IDC III 02 05 59 53.1–2.0 44.51N 149.00E 46–18 4.7,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:φs190.00000°,δ25.00000°,λ16.00000°. NP2:φs85.00000°,δ83.00000°,λ114.00000°. M0 1.35000$\times10^{16}$
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.5km az=159.0.
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=4.3km az=105.3. Felt (II-III) at Yuzhno-Kuril'sk. Moment Tensor Solution.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=152.0. Felt [III] at Yuzhno-Kuril'sk.
SKHL Event type fe. Felt (II-III) at Kurilsk.
IDC Error ellipse: s-maj=13.6km s-min=9.9km az=148.0.
ISC III 02 07 50 53.7–1.9 43.39N–.09 146.74E–.08 29–12 19 0-5
JMA III 02 07 50 53.5–.30 43.34N 146.74E 42–3 3.0 **¶600535732**
SKHL III 02 07 50 54.4–.30 43.40N 146.76E 30–3 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
KRSC III 02 14 16 08.5–2.5 49.33N 156.59E 6–3 3.8L
¶16193966
KRSC Event type se.
SKHL III 02 16 27 45.8–.30 47.05N 152.73E 40–9 4.2b
¶600847841
KRSC III 03 04 54 52.2–1.8 49.20N 156.68E 8–33 4.3L
¶17193172
KRSC Event type se.
ISC III 03 11 52 37.5–.38 46.96N–.03 151.00E–.03 179–2 5.2b 1532 3-154
NIED III 03 11 52 00 45.90N 151.30E 175 5.6W **¶16193999**
MOS III 03 11 52 34.7–1.0 47.06N 150.97E 161 5.3b
ISCJB III 03 11 52 35.3–.26 46.92N–.02 151.07E–.02 170–2 5.2b
SKHL III 03 11 52 35.8–.20 46.86N 151.22E 157–5 5.7,5.7b
BJI III 03 11 52 36.6 47.09N 151.09E 188 5.0b,5.0b
GCMT III 03 11 52 37.9–.10 46.86N 151.21E 175–0 5.4W,5.0b
NEIC III 03 11 52 37.9–.10 46.97N 150.93E 180 5.3b,5.0b
IDC III 03 11 52 37.3–.68 46.96N 151.01E 177–5 5.2,4.8
JMA III 03 11 52 39.1–.50 45.88N 151.34E 186 5.2,4.8
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:φs343.00000°,δ31.00000°,λ-1.00000°. NP2:φs74.00000°,δ89.00000°,λ-121.00000°. M0 2.74000$\times10^{17}$
MOS Event type fe. Error ellipse: s-maj=7.4km s-min=5.6km az=81.6. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=165.9.
SKHL Event type fe. Felt (II) at Yushno-Kurilsk.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s101,c171; s126,c248; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; Mrr-0.95±.02 Mθθ1.81±.02; Mφφ-0.85±.02; Mrθ0.48±.02; Mθφ-0.28±.02; Mφr0.68±.02; Best double couple: NP1:φs242.00000°,δ66.00000° ,λ-137.00000°. NP2:φs131.00000°,δ51.00000°,λ-32.00000°. Principal axes: T 1.9010,Plg9.0000°,Azm4.0000°; N -0.2280,Plg42.0000°,Azm266.0000° ; P -1.6760,Plg47.0000°,Azm103.0000° M0 1.78800$\times10^{17}$
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=1.9km az=157.0. Felt [II] at Yuzhno-Kuril'sk. Recorded [1 JMA] in eastern Hokkaido.
IDC Error ellipse: s-maj=9.0km s-min=7.0km az=117.0.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.
KRSC III 04 04 18 41.4–1.9 49.69N 156.16E 86–27 4.4L
¶16293243
KRSC Event type se.
ISC III 04 11 19 09.6–.92 45.5N–.20 151.6E–.10 32 3.8b 17 7-83
ISCJB III 04 11 19 07.6–.80 45.5N–.10 151.5E–.10 32 3.8b,3.6s **¶16461108**
IDC III 04 11 19 12.1–3.2 45.52N 151.50E 54–28 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.9km s-min=10.7km az=149.9.
IDC Error ellipse: s-maj=27.6km s-min=16.2km az=155.0.
ISC III 04 14 54 02.1–2.2 45.3N–.30 151.6E–.20 35 3.9b 22 5-72
IDC III 04 14 54 07.7–4.8 45.98N 151.13E 47–28 3.8,3.7 **¶17193236**
ISC Event type ke.
IDC Error ellipse: s-maj=105.4km s-min=27.1km az=152.0.
ISC III 04 17 23 34.0–.95 48.69N–.06 154.66E–.05 72–8 4.5b 211 2-147
BJI III 04 17 23 26.9 48.86N 155.49E 73 5.0b,4.6s **¶16196737**
KRSC III 04 17 23 30.7–1.8 48.60N 154.76E 84–35 4.7L,4.6s
SKHL III 04 17 23 31.9–.10 48.50N 155.04E 83–1 5.9s,4.9b
MOS III 04 17 23 32.3–1.2 48.68N 154.54E 74 4.4b,4.9b
ISCJB III 04 17 23 33.6–.56 48.75N–.04 154.56E–.05 81–5 4.3b,4.9b
NEIC III 04 17 23 35.8–.82 48.84N 154.47E 83–7 4.4b,4.9b
IDC III 04 17 23 35.7–2.3 48.71N 154.54E 84–20 4.1,4.0
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=8.3km s-min=4.8km az=71.8.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=3.4km az=144.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=4.7km az=147.0.
IDC Error ellipse: s-maj=17.4km s-min=10.2km az=143.0.

IDC III 05 01 41 01.9–22 48.85N 153.29E 145–192 3.5,3.3
¶17193255
IDC Error ellipse: s-maj=104.5km s-min=20.1km az=175.0.
KRSC III 05 11 05 08.6–2.1 49.14N 153.87E 70–31 4.1L
¶16293248
KRSC Event type se.
ISC III 05 13 34 20.6–2.9 44.5N–.10 147.7E–.20 105–22 21 1-6
ISCJB III 05 13 34 19.9–1.4 44.5N–.10 147.7E–.20 108–11 **¶600536816**
JMA III 05 13 34 20.9–.40 44.47N 147.81E 63 3.9
SKHL III 05 13 34 21.5–.60 44.19N 148.03E 71–1 4.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.7km s-min=8.6km az=43.7.
JMA Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
ISC III 05 20 36 12.4–3.2 44.34N–.09 148.2E–.20 7–12 18 1-6
JMA III 05 20 36 13.7–.20 43.98N 148.08E 0 3.7 **¶600536934**
SKHL III 05 20 36 16.0–.50 44.42N 148.13E 52–8 4.2b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
KRSC III 06 04 54 30.7–2.0 50.29N 157.13E 41–24 3.9L
¶16294089
KRSC Event type se.
ISC III 06 21 52 07.3–.54 45.40N–.05 148.15E–.06 149–4 4.0b 125 0-81
ISCJB III 06 21 52 06.2–.44 45.41N–.04 148.16E–.06 150–3 3.8b **¶16303231**
MOS III 06 21 52 06.6–1.3 45.51N 148.09E 154 3.8b
SKHL III 06 21 52 07.9–.70 45.28N 148.00E 153–3 4.9s,4.6b
IDC III 06 21 52 08.2–.87 45.62N 147.95E 148–7 3.9,3.7
JMA III 06 21 52 09.9–.60 45.01N 148.16E 154 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.5km az=32.3.
MOS Error ellipse: s-maj=10.2km s-min=6.9km az=94.4.
IDC Error ellipse: s-maj=14.5km s-min=10.5km az=137.0.
JMA Error ellipse: s-maj=4.4km s-min=6.3km az=-1.0.
ISC III 07 03 10 18.1–.58 46.68N–.08 153.56E–.06 31 4.2b 117 4-83
IDC III 07 03 10 14.0–.76 46.82N 153.35E 0 4.2,4.1 **¶16303680**
ISCJB III 07 03 10 17.0–.48 46.83N–.06 153.34E–.08 31 4.2b,4.1
JMA III 07 03 10 19.5–.60 46.99N 153.25E 30 4.8,4.1
NEIC III 07 03 10 20.9–.86 46.82N 153.35E 50–7 4.3b,4.1
SKHL III 07 03 10 21.2–.20 46.46N 153.35E 79–4 4.8b,4.1
MOS III 07 03 10 22.1–1.2 46.71N 153.22E 80 4.3b,4.1
BJI III 07 03 10 25.5 47.60N 152.20E 33 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=13.2km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=3.6km az=139.2.
JMA Error ellipse: s-maj=10.0km s-min=7.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=5.6km az=139.0.
MOS Error ellipse: s-maj=8.8km s-min=6.9km az=95.3.
ISC III 07 06 55 04.8–.87 50.23N–.08 156.51E–.07 67–7 3.7b 64 1-74
IDC III 07 06 55 03.0–8.0 50.36N 155.10E 87–48 3.8,3.8 **¶16293251**
ISCJB III 07 06 55 03.8–.71 50.26N–.07 156.3E–.10 76–6 3.7b,3.8
MOS III 07 06 55 03.3–1.3 50.24N 156.32E 71 3.9b,3.8
KRSC III 07 06 55 05.1–2.2 50.31N 157.05E 44–22 4.6L,3.8
ISC Event type se.
IDC Error ellipse: s-maj=71.4km s-min=50.4km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=4.7km az=138.3.
MOS Error ellipse: s-maj=16.4km s-min=5.8km az=70.4.
KRSC Event type se.
ISC III 08 01 05 03.9–.83 47.1N–.10 153.0E–.10 56 3.4b 29 4-77
SKHL III 08 01 05 02.2–.90 46.74N 153.49E 71–3 4.6b **¶17193444**
ISCJB III 08 01 05 02.1–.69 47.06N–.10 153.0E–.10 56 3.6b
MOS III 08 01 05 03.9–1.5 47.20N 152.71E 74 4.2b
IDC III 08 01 05 05.0–3.3 47.16N 152.56E 76–30 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=4.4km az=44.9.
MOS Error ellipse: s-maj=24.0km s-min=11.6km az=65.7.
IDC Error ellipse: s-maj=40.6km s-min=21.4km az=132.0.
ISC III 08 06 15 02.3–4.1 44.4N–.10 148.5E–.20 35 12 1-5
JMA III 08 06 15 03.7–.30 43.99N 148.14E 0 3.5 **¶600537799**
SKHL III 08 06 15 05.0–.20 44.46N 148.33E 34–2 4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
ISC III 08 11 33 20.2–2.2 43.69N–.08 147.24E–.09 26–11 26 0-8
JMA III 08 11 33 20.2–.30 43.65N 147.20E 27 3.6 **¶600537868**
ISCJB III 08 11 33 20.4–1.3 43.73N–.07 147.19E–.09 32–5 3.6
SKHL III 08 11 33 21.6–.30 43.74N 147.13E 36–4 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.9km az=136.1.
ISC III 08 15 18 27.6–.47 48.02N–.05 151.51E–.05 200 4.1b 139 4-149
ISCJB III 08 15 18 26.4–.33 48.05N–.05 151.49E–.05 200 4.0b **¶16269125**
SKHL III 08 15 18 26.9–.70 47.98N 151.59E 189–1 5.5s,4.9b
MOS III 08 15 18 27.5–1.1 48.15N 151.43E 214 4.0b,4.9b
NEIC III 08 15 18 29.5–.82 48.36N 151.22E 201–7 4.3b,4.9b
BJI III 08 15 18 29.5 48.40N 151.20E 201 4.6b,4.3b
IDC III 08 15 18 29.0–.78 48.12N 151.33E 211–7 4.1,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.2km az=150.5.
MOS Error ellipse: s-maj=8.8km s-min=7.1km az=89.5.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=6.4km az=155.0.
IDC Error ellipse: s-maj=11.4km s-min=8.7km az=143.0.
ISC III 08 19 49 27.2–.39 49.51N–.05 155.66E–.05 54 4.3b 165 1-77
KRSC III 08 19 49 23.8–1.9 49.31N 156.68E 15–10 4.9L **¶16295212**
ISCJB III 08 19 49 24.8–.26 49.38N–.03 155.71E–.05 54 4.3b,3.7s
MOS III 08 19 49 26.6–1.1 49.47N 155.66E 75 4.4b,3.7s
BJI III 08 19 49 27.1 49.60N 155.60E 76 4.9b,4.4
NEIC III 08 19 49 29.1–.67 49.58N 155.56E 76–6 4.4b,4.4
IDC III 08 19 49 29.5–2.2 49.52N 155.53E 81–19 4.0,3.8
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=2.7km az=43.8.
MOS Error ellipse: s-maj=9.9km s-min=4.3km az=74.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=4.3km az=150.0.
IDC Error ellipse: s-maj=15.1km s-min=10.0km az=143.0.
ISC III 09 07 48 00.6–2.4 43.9N–.10 147.6E–.10 71–15 23 1-5
JMA III 09 07 48 02.8–.20 43.87N 147.42E 72 3.6 **¶600538187**
SKHL III 09 07 48 02.5–.50 43.97N 147.59E 64–5 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
KRSC III 10 04 56 48.1–1.4 50.39N 156.91E 40–17 4.1L
MOS III 10 04 56 48.0–3.4 50.39N 156.91E 40 4.2b **¶16311590**
KRSC Event type se.
MOS Error ellipse: s-maj=75.3km s-min=20.7km az=80.8.
ISC III 10 22 49 33.9–1.4 50.54N–.08 157.99E–.05 39–4 3.6b 65 1-73
MOS III 10 22 49 32.2–.85 50.62N 157.93E 34 4.5b **¶16311594**
KRSC III 10 22 49 32.7–1.3 50.77N 158.16E 40–20 4.4L
ISCJB III 10 22 49 34.4–.97 50.76N–.06 158.03E–.10 57–9 3.8b
IDC III 10 22 49 39.6–2.9 51.02N 157.80E 81–25 3.8,3.7
ISC Event type se.
MOS Error ellipse: s-maj=22.3km s-min=6.0km az=85.1.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=6.5km az=43.2.
IDC Error ellipse: s-maj=29.0km s-min=22.2km az=122.0.
ISC III 11 00 54 49.1–.96 46.7N–.20 153.8E–.10 31 3.5b 17 4-77
IDC III 11 00 54 44.3–.98 46.69N 153.69E 0 4.3,4.1s **¶17193668**
MOS III 11 00 54 46.8–1.1 46.76N 153.69E 27 4.1b,4.1s
SKHL III 11 00 54 46.8–.50 46.80N 153.70E 24–4 5.0b,4.1s
ISCJB III 11 00 54 47.1–.81 46.7N–.10 153.8E–.10 31 4.2s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 04 28 19.5–.66 47.78N–.05 154.25E–.05 34–2 4.7b,4.0s 317 3-152
NIED III 11 04 28 00 47.40N 155.10E 8 4.7W,4.0s **¶16304932**
IDC III 11 04 28 14.0–.51 47.79N 154.21E 0 5.8L,4.5
ISCJB III 11 04 28 18.1–.54 47.81N–.03 154.19E–.04 34–4 4.6b,4.0s
BJI III 11 04 28 18.7 47.90N 154.10E 35 4.8b,4.6b
MOS III 11 04 28 19.0–1.0 47.87N 154.22E 43 4.8b,4.6b
NEIC III 11 04 28 21.0–.66 47.80N 154.10E 48–5 4.8b,4.6b
SKHL III 11 04 28 21.0–.80 47.76N 154.26E 67–7 5.2s,5.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ50.00000°,λ46.00000°. NP2:ϕ_s267.00000°,δ57.00000°,λ129.00000°. $M_0$1.13000×10^{16}
IDC Error ellipse: s-maj=14.8km s-min=10.9km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.1km az=148.0.
MOS Error ellipse: s-maj=7.8km s-min=5.7km az=73.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.3km az=157.0.
SKHL III 11 07 53 16.4–.10 45.04N 146.85E 154–3 5.2s,4.8b
¶600847852
ISC III 12 10 18 43.6–2.7 50.4N–.10 157.13E–.09 5–14 45 1-3
MOS III 12 10 18 44.1–2.9 50.38N 157.10E 30 4.3b **¶16311600**
KRSC III 12 10 18 44.1–2.1 50.38N 157.10E 31–26 4.1L
ISC Event type se.
MOS Error ellipse: s-maj=34.6km s-min=7.8km az=80.7.
KRSC Event type se.
KRSC III 13 04 08 31.9–1.6 50.78N 157.61E 48–23 4.0L
¶16314725
KRSC Event type se.
ISC III 13 05 31 24.6–2.9 43.7N–.10 147.5E–.10 45 11 1-5
JMA III 13 05 31 25.8–.40 43.62N 147.38E 43 3.6 **¶600543095**
SKHL III 13 05 31 26.1–.20 43.72N 147.45E 43–1 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
KRSC III 13 12 39 42.2–2.0 50.41N 157.61E 99–22 3.6L
¶16314728
KRSC Event type se.
ISC III 14 15 54 51.5–2.3 43.7N–.10 147.4E–.10 45 19 0-8
ISCJB III 14 15 54 51.9–1.4 43.78N–.09 147.3E–.10 45 **¶600545723**
JMA III 14 15 54 52.3–.20 43.70N 147.28E 37 3.4
SKHL III 14 15 54 53.1–.30 43.78N 147.29E 49–1 4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=5.6km az=137.5.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC III 14 17 39 01.1–.54 46.36N–.07 153.23E–.06 40 4.3b 136 4-148
MOS III 14 17 38 58.8–.99 46.32N 153.12E 38 4.5b **¶16424491**
BJI III 14 17 38 58.3 46.45N 153.18E 35 4.7b,4.5b
ISCJB III 14 17 38 59.4–.41 46.40N–.05 153.20E–.06 40 4.2b,3.1s
SKHL III 14 17 38 59.9–.70 46.25N 153.34E 56–2 4.9b,3.1s
IDC III 14 17 39 01.5–.66 46.33N 153.19E 46–5 4.1,4.0
NEIC III 14 17 39 02.5–1.1 46.40N 153.21E 56–9 4.4b,4.0
ISC Event type se.
MOS Error ellipse: s-maj=8.8km s-min=6.7km az=107.5.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.9km az=143.6.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=159.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.6km az=148.0.
KRSC III 14 18 09 31.6–1.1 50.72N 157.50E 48–22 3.8L
¶603049777
KRSC Event type se.
ISC III 14 20 41 23.9–.33 50.86N–.04 156.67E–.03 128–2 5.0b 982 0-159
KRSC III 14 20 41 19.4–1.9 50.54N 157.19E 124–19 5.7L **¶16314741**
MOS III 14 20 41 22.4–.93 50.85N 156.57E 129 4.9b
BJI III 14 20 41 22.8 50.86N 156.58E 139 5.1b,5.0b
IDC III 14 20 41 23.7–.51 50.87N 156.61E 125–4 4.9,4.6
ISCJB III 14 20 41 23.3–.28 50.90N–.02 156.64E–.02 136–2 4.8b,4.6
NEIC III 14 20 41 24.9–.11 50.96N 156.53E 131 5.0b,4.6
GCMT III 14 20 41 24.9–.20 50.78N 156.95E 122–2 5.1W,4.6
ISC Event type se.
KRSC Event type se.
MOS Event type fe. Error ellipse: s-maj=6.0km s-min=3.4km az=79.7. Felt (III-IV) at Severo-Kuril'sk. Moment Tensor Solution.
IDC Error ellipse: s-maj=8.7km s-min=6.6km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.0km az=158.7.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.3km az=157.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c67; s107,c174; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.87±.12 $M_{\theta\theta}$0.15±.16; $M_{\phi\phi}$2.73±.14; $M_{r\theta}$2.04±.09; $M_{\theta\phi}$-3.37±.12; $M_{\phi r}$2.53±.09; Best double couple: NP1:ϕ_s180.00000°,δ64.00000°,λ-44.00000°. NP2:ϕ_s292.00000°,δ51.00000°,λ-146.00000°. Principal axes: T 5.1760,Plg8.0000°,Azm239.0000°; N 0.5310,Plg40.0000°,Azm336.0000°; P -5.6990,Plg48.0000°,Azm140.0000° $M_0$5.43700×10^{16}
ISC III 15 22 47 41.3–2.5 43.7N–.10 147.5E–.10 45 11 0-5
JMA III 15 22 47 42.1–.20 43.60N 147.36E 41 2.9 **¶600548896**
SKHL III 15 22 47 42.1–.30 43.77N 147.45E 27–2 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
SKHL III 16 00 00 52.1–.20 43.79N 147.22E 26–3 4.2b
¶600847863
ISC III 16 09 11 45.5–.59 50.61N–.06 157.48E–.05 61–5 4.1b 92 1-146
MOS III 16 09 11 42.2–.94 50.44N 157.35E 60 4.2b **¶17196412**
KRSC III 16 09 11 43.8–1.6 50.65N 157.83E 41–23 4.8L
ISCJB III 16 09 11 45.4–.78 50.67N–.06 157.34E–.09 75–6 3.9b
IDC III 16 09 11 46.4–.51 50.67N 157.24E 60–4 4.0,4.0
ISC Event type se.
MOS Event type fe. Error ellipse: s-maj=14.5km s-min=4.8km az=80.8. Felt (II-III) at Severo-Kuril'sk. Moment Tensor Solution.
KRSC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.2km az=136.9.
IDC Error ellipse: s-maj=13.4km s-min=8.9km az=104.0.
SKHL III 16 23 49 38.6–.70 43.38N 147.00E 24–1 4.4b
¶600847864
KRSC III 17 06 42 07.3–1.3 50.56N 157.33E 40–17 3.7L
¶16338012
KRSC Event type se.
ISC III 17 14 24 17.2–4.4 44.77N–.09 149.3E–.30 60 20 1-7
SKHL III 17 14 24 17.8–.40 44.93N 149.41E 46–8 4.1b **¶600847866**
ISC Event type ke.
ISC III 18 11 34 22.0–2.3 43.7N–.10 147.4E–.10 45 16 0-5
JMA III 18 11 34 22.9–.30 43.61N 147.24E 31 3.0 **¶600555657**
SKHL III 18 11 34 23.5–.10 43.70N 147.31E 49–1 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC III 20 01 53 27.2–10 45.25N 151.80E 0 3.8,3.6
¶17197365
IDC Error ellipse: s-maj=290.7km s-min=110.8km az=96.0.
IDC III 21 00 02 05.7–1.9 49.29N 154.69E 0 4.0,3.7
¶17197584
IDC Error ellipse: s-maj=80.0km s-min=28.9km az=143.0.
ISC III 21 04 09 35.1–1.0 49.33N–.09 156.6E–.10 57 3.6b 34 1-75
IDC III 21 04 09 28.0–1.1 49.39N 156.24E 0 5.0L,3.8 **¶16342624**
MOS III 21 04 09 32.0–.99 49.32N 156.36E 44 4.2b,3.8
ISCJB III 21 04 09 33.2–.72 49.35N–.07 156.5E–.10 57 3.6b,3.3s
KRSC III 21 04 09 33.3–1.5 49.41N 157.02E 50–24 4.4L,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=20.1km az=99.0.
MOS Error ellipse: s-maj=26.0km s-min=7.7km az=82.7.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=7.2km az=30.3.
KRSC Event type se.
ISC III 21 11 04 48.6–2.6 43.4N–.10 146.90E–.09 29–14 14 1-5
JMA III 21 11 04 48.7–.20 43.36N 146.90E 42–2 2.8 **¶600560527**
ISCJB III 21 11 04 49.1–1.5 43.40N–.08 146.89E–.09 35–35 2.8
SKHL III 21 11 04 49.7–.40 43.39N 146.91E 41–2 4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=7.4km az=143.4.
KRSC III 21 20 01 43.9–2.6 49.41N 156.55E 31–34 3.5L
¶16342629

KRSC Event type se.
ISC III 22 11 10 20.7–.74 48.61N–.08 154.97E–.09 43 3.9b 39 2-74
ISCJB III 22 11 10 18.9–.57 48.55N–.06 155.0E–.10 43 3.9b **¶17197995**
MOS III 22 11 10 20.4–1.1 48.60N 154.85E 64 4.1b
SKHL III 22 11 10 21.3–.50 48.48N 155.15E 75–4 4.6b
IDC III 22 11 10 23.3–3.0 48.65N 154.76E 69–26 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=4.0km az=40.5.
MOS Error ellipse: s-maj=17.8km s-min=9.6km az=73.6.
IDC Error ellipse: s-maj=23.2km s-min=13.4km az=149.0.
ISC III 23 08 27 00.6–.55 46.24N–.05 153.07E–.04 31–3 4.8b,4.1s 482 4-149
NIED III 23 08 26 00 46.50N 153.20E 5 4.8W,4.1s **¶16342728**
IDC III 23 08 26 55.9–.49 46.23N 153.06E 0 4.6,4.5
ISCJB III 23 08 26 55.3–.89 46.21N–.03 153.07E–.03 5–5 4.8b,4.1s
JMA III 23 08 26 57.0–.80 46.49N 153.17E 30 4.6,4.1s
NEIC III 23 08 26 59.4–1.8 46.26N 153.04E 20–11 4.9b,4.1s
BJI III 23 08 26 59.8 46.38N 153.01E 36 5.0b,4.9b
SKHL III 23 08 27 01.2–.00 46.29N 153.16E 51–5 5.3b,4.9s
MOS III 23 08 27 01.7–1.3 46.28N 152.97E 52 5.0b,4.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S50.00000°,δ19.00000°,λ101.00000°. NP2:ϕ_S219.00000°,δ71.00000°,λ86.00000°. $M_0$2.01000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=10.8km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=2.6km az=159.8.
JMA Error ellipse: s-maj=10.0km s-min=9.2km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=2.8km az=154.0. Felt [II] at Severo-Kuril'sk.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=109.4. Felt (II) at Severo-Kuril'sk. Moment Tensor Solution.
ISC III 23 09 53 53.3–1.4 50.6N–.10 157.2E–.10 76–15 3.6b 43 1-60
IDC III 23 09 53 36.8–2.5 49.75N 156.49E 0 3.6,3.4 **¶16354007**
ISCJB III 23 09 53 52.7–1.2 50.7N–.10 157.2E–.20 83–14 3.4b,3.4
KRSC III 23 09 53 52.3–1.4 50.66N 157.31E 66–21 4.3L,3.4
MOS III 23 09 53 52.6–.52 50.64N 157.08E 69 4.1b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=65.5km s-min=27.2km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=31.8km s-min=8.1km az=39.2.
KRSC Event type se.
MOS Error ellipse: s-maj=42.8km s-min=7.8km az=78.1.
ISC III 23 15 11 02.4–3.4 49.5N–.20 156.5E–.10 53 26 1-9
MOS III 23 15 10 57.9–.69 49.29N 156.58E 27 4.1b **¶16354009**
KRSC III 23 15 11 00.2–1.5 49.60N 157.04E 15–10 3.9L
ISC Event type se.
MOS Error ellipse: s-maj=35.2km s-min=9.0km az=82.2.
KRSC Event type se.
ISC III 23 18 08 04.0–.72 50.01N–.08 156.25E–.08 150 3.7b 103 1-146
KRSC III 23 18 08 02.5–2.7 50.03N 156.29E 144–28 4.3L **¶16354011**
MOS III 23 18 08 03.6–.88 50.17N 155.64E 139 3.8b
IDC III 23 18 08 07.6–1.9 50.37N 155.59E 155–15 3.9,3.6
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=17.1km s-min=4.5km az=73.6.
IDC Error ellipse: s-maj=18.0km s-min=12.3km az=163.0.
ISC III 23 20 20 43.2–2.0 43.09N–.09 146.31E–.07 31–13 20 0-5
JMA III 23 20 20 43.3–.10 43.10N 146.29E 49–1 2.9 **¶600564425**
ISCJB III 23 20 20 43.2–1.1 43.11N–.07 146.29E–.07 46–13 2.9
SKHL III 23 20 20 43.5–.30 43.08N 146.27E 34–8 4.2b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.0km az=148.0.
KRSC III 24 09 12 23.5–1.5 49.90N 156.98E 20–10 4.3L
MOS III 24 09 12 23.4–1.8 49.90N 156.98E 20 4.4b **¶16363761**
KRSC Event type se.
MOS Error ellipse: s-maj=56.1km s-min=12.2km az=85.6.
KRSC III 24 16 02 36.0–.84 49.52N 156.93E 15–7 3.9L
¶16363764
KRSC Event type se.
ISC III 25 07 55 10.8–1.2 50.45N–.09 157.29E–.06 61–10 3.6b 77 1-73
MOS III 25 07 55 08.8–1.0 50.35N 157.34E 57 4.0b **¶16363915**
KRSC III 25 07 55 09.1–2.1 50.48N 157.60E 40–26 4.5L
ISCJB III 25 07 55 11.2–.82 50.58N–.07 157.13E–.09 79–6 3.5b
IDC III 25 07 55 14.3–3.3 50.79N 156.80E 90–28 3.5,3.4
ISC Event type se.
MOS Error ellipse: s-maj=16.8km s-min=5.0km az=80.5.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=5.4km az=141.0.
IDC Error ellipse: s-maj=26.7km s-min=16.0km az=165.0.
ISC III 25 16 25 07.0–.80 44.1N–.10 147.69E–.08 63 4.0b 43 1-82
MOS III 25 16 25 02.7–1.2 43.92N 147.61E 44 4.4b **¶16462173**
ISCJB III 25 16 25 05.0–.74 44.0N–.10 147.68E–.09 63 3.9b
IDC III 25 16 25 05.5–4.5 44.01N 147.75E 51–38 4.8L,3.9
SKHL III 25 16 25 14.1–.10 43.60N 147.62E 32–1 4.7b,3.9
ISC Event type ke.
MOS Error ellipse: s-maj=12.1km s-min=8.0km az=101.9.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=8.1km az=157.5.
IDC Error ellipse: s-maj=23.6km s-min=15.4km az=167.0.
ISC III 25 17 42 56.1–3.0 43.6N–.10 147.6E–.10 25–16 18 1-8
JMA III 25 17 42 55.2–.30 43.61N 147.47E 9–5 3.5 **¶600566784**
SKHL III 25 17 42 56.3–.40 43.59N 147.64E 37–5 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
ISC III 25 18 13 04.0–.74 47.39N–.08 153.68E–.08 59 3.6b 64 4-78
ISCJB III 25 18 13 02.6–.55 47.44N–.06 153.57E–.07 59 3.7b **¶16462175**
MOS III 25 18 13 02.1–1.6 47.35N 153.58E 59 4.1b
SKHL III 25 18 13 03.0–.80 47.25N 153.83E 64–1 4.5b
IDC III 25 18 13 05.9–3.7 47.51N 153.44E 72–29 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=4.0km az=140.5.
MOS Error ellipse: s-maj=10.7km s-min=7.5km az=79.7.
IDC Error ellipse: s-maj=34.1km s-min=15.8km az=159.0.
ISC III 25 19 52 37.4–3.7 45.13N–.10 150.5E–.20 39 21 2-8
SKHL III 25 19 52 36.8–.20 45.15N 150.50E 70–1 4.4b **¶600566926**
JMA III 25 19 52 38.6–.50 45.14N 150.19E 130 3.5
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=5.5km az=-1.0.
SKHL III 26 04 26 09.5–.30 44.61N 149.75E 37–2 4.1b
¶600847977
ISC III 26 05 12 10.8–3.0 44.1N–.10 148.0E–.20 35–11 16 1-5
JMA III 26 05 12 13.6–.20 43.85N 147.73E 28 3.1 **¶600567387**
SKHL III 26 05 12 14.4–.20 44.20N 147.76E 37–3 4.0b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC III 26 07 42 06.5–1.7 44.60N–.09 149.4E–.10 52–17 3.5b 22 1-81
ISCJB III 26 07 42 05.7–1.6 44.64N–.09 149.4E–.10 62–15 3.5b **¶17198615**
MOS III 26 07 42 06.0–.85 44.68N 149.36E 67 4.1b
SKHL III 26 07 42 07.8–.60 44.55N 149.29E 88–3 5.4s,4.6b
IDC III 26 07 42 10.8–3.3 44.73N 149.50E 90–31 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=10.3km az=40.2.
MOS Error ellipse: s-maj=22.0km s-min=15.1km az=59.5.
IDC Error ellipse: s-maj=31.7km s-min=17.5km az=124.0.
ISC III 26 07 48 14.7–1.6 44.71N–.08 149.4E–.10 51–17 3.5b 35 1-81
NIED III 26 07 48 00 45.00N 149.50E 32 3.8W **¶17198616**
JMA III 26 07 48 11.5–.70 45.02N 149.51E 30 4.2
SKHL III 26 07 48 14.7–.70 44.50N 149.39E 78–6 4.5b
ISCJB III 26 07 48 14.5–1.0 44.72N–.07 149.3E–.10 67–10 3.4b
MOS III 26 07 48 14.0–1.4 44.67N 149.39E 35 4.0b
IDC III 26 07 48 16.9–5.1 44.82N 149.23E 72–47 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S112.00000°,δ34.00000°,λ-40.00000°. NP2:ϕ_S236.00000°,δ69.00000°,λ-118.00000°. $M_0$6.32000×10^{14}
JMA Error ellipse: s-maj=6.7km s-min=6.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=6.8km az=135.1.
MOS Error ellipse: s-maj=15.8km s-min=13.6km az=86.3.
IDC Error ellipse: s-maj=27.8km s-min=20.0km az=135.0.
KRSC III 26 09 31 10.5–.64 49.51N 156.41E 7–7 4.0L
MOS III 26 09 31 10.4–1.8 49.51N 156.41E 7 4.2b **¶17198699**
KRSC Event type se.
MOS Error ellipse: s-maj=99.9km s-min=13.9km az=83.1.
SKHL III 27 02 39 53.1–.40 44.13N 148.83E 54–4 4.4b
¶600847979
SKHL III 27 14 30 07.8–.70 46.03N 151.29E 51–1 4.5b
¶600847980
SKHL III 28 02 07 15.2–.10 43.73N 147.75E 33–2 4.3b
¶600847981
ISC III 28 08 14 19.2–3.8 44.0N–.20 146.6E–.10 142–21 14 0-4
ISCJB III 28 08 14 19.7–1.8 43.9N–.20 146.5E–.20 135–11 **¶600569831**
SKHL III 28 08 14 19.2–.10 42.81N 146.19E 36–3 4.0b
JMA III 28 08 14 20.2–.40 43.94N 146.52E 138–3 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.8km s-min=12.5km az=154.2.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
ISC III 28 15 53 27.8–.70 47.67N–.09 154.83E–.09 21 3.8b 45 3-79
IDC III 28 15 53 24.5–.67 47.71N 154.55E 0 4.0,3.8 **¶17198970**
ISCJB III 28 15 53 25.8–.52 47.64N–.06 154.81E–.09 21 3.8s,3.7b
MOS III 28 15 53 27.1–.88 47.53N 155.07E 40 4.1b,3.7b
SKHL III 28 15 53 27.2–1.0 47.41N 155.24E 65–2 4.5b,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=14.0km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=4.2km az=41.7.
MOS Error ellipse: s-maj=25.2km s-min=14.5km az=70.9.
ISC III 29 08 28 35.4–.55 45.47N–.04 146.35E–.04 46–4 4.9b,4.2s 999 1-154
NIED III 29 08 28 00 45.30N 146.40E 11 4.8W,4.2s **¶16375937**
IDC III 29 08 28 38.3–.45 45.40N 146.44E 0 4.7,4.6
MOS III 29 08 28 31.7–1.2 45.37N 146.35E 36 5.1b,4.2s
SKHL III 29 08 28 32.2–.60 45.35N 146.53E 47–4 5.6b,5.5s
ISCJB III 29 08 28 32.5–.51 45.49N–.03 146.37E–.02 35–4 4.9b,4.2s
BJI III 29 08 28 34.2 45.48N 146.26E 48 5.0b,4.9b
NEIC III 29 08 28 34.6–.45 45.46N 146.29E 40–4 5.0b,4.9b
JMA III 29 08 28 34.1–.30 45.35N 146.45E 0 4.8,4.9b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S315.00000°,δ44.00000°,λ2.00000°. NP2:ϕ_S223.00000°,δ89.00000°,λ134.00000°. $M_0$1.76000×10^{16}
IDC Error ellipse: s-maj=13.6km s-min=11.6km az=147.0.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=98.5. Felt (II-III) at Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (II-III) at Kurilsk.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.6km az=171.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=163.0. Felt [III] at Kuril'sk.
JMA Error ellipse: s-maj=2.2km s-min=2.3km az=-1.0.
ISC III 29 14 09 05.1–.96 50.4N–.10 157.43E–.07 36–3 3.6b 66 1-73
MOS III 29 14 09 04.7–1.2 50.39N 157.23E 32 4.4b **¶16391149**
KRSC III 29 14 09 04.3–2.5 50.51N 157.94E 15–11 4.2L
ISCJB III 29 14 09 05.8–1.0 50.47N–.07 157.3E–.10 58–8 3.6b
NEIC III 29 14 09 08.7–2.3 50.59N 157.28E 65–17 4.4b
IDC III 29 14 09 09.2–3.7 50.60N 157.24E 69–31 4.2L,3.5
ISC Event type se.
MOS Error ellipse: s-maj=22.1km s-min=5.5km az=82.1.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=6.3km az=136.8.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=14.8km az=157.0.
IDC Error ellipse: s-maj=34.0km s-min=19.4km az=143.0.
ISC III 29 22 02 17.8–.81 44.94N–.08 149.46E–.08 60 3.7b 50 1-81
NIED III 29 22 02 00 45.10N 149.50E 74 3.9W **¶17199119**
JMA III 29 22 02 16.4–.80 45.11N 149.50E 30 4.3
SKHL III 29 22 02 16.8–.80 45.00N 149.59E 63–9 4.7b
ISCJB III 29 22 02 16.5–.56 44.97N–.07 149.43E–.07 60 3.8b
MOS III 29 22 02 18.3–1.1 45.38N 148.94E 69 4.1b
IDC III 29 22 02 26.6–11 45.36N 149.18E 128–71 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S252.00000°,δ48.00000°,λ58.00000°. NP2:ϕ_S115.00000°,δ51.00000°,λ121.00000°. $M_0$7.02000×10^{14}
JMA Error ellipse: s-maj=6.7km s-min=6.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.1km az=146.5.
MOS Error ellipse: s-maj=17.4km s-min=13.8km az=55.5.
IDC Error ellipse: s-maj=93.5km s-min=40.4km az=18.0.
ISC III 30 17 10 36.6–.34 43.95N–.04 147.96E–.04 35–3 4.8b,4.1s 715 1-152
NIED III 30 17 10 00 43.60N 147.90E 20 4.6W,4.1s **¶16392177**
IDC III 30 17 10 30.9–.50 43.94N 147.94E 0 4.6,4.6
JMA III 30 17 10 32.3–.30 43.65N 147.93E 0 4.6,4.6
BJI III 30 17 10 34.2 43.94N 148.06E 37 4.9b,4.8b
MOS III 30 17 10 34.9–.95 43.98N 147.93E 35 5.1b,4.0s
ISCJB III 30 17 10 35.2–.42 43.95N–.03 147.95E–.02 38–3 4.7b,4.0s
NEIC III 30 17 10 36.7–.16 43.96N 147.91E 37 4.7b,4.0s
SKHL III 30 17 10 37.3–.60 43.86N 147.94E 61–4 5.1b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S233.00000°,δ20.00000°,λ105.00000°. NP2:ϕ_S37.00000°,δ71.00000°,λ85.00000°. $M_0$8.87000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.3km az=140.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.0km az=107.6.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.7km az=160.9.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=2.4km az=157.0. Recorded [1 JMA] in eastern Hokkaido.
KRSC III 31 00 50 53.5–.89 50.10N 156.89E 18–24 3.8L
MOS III 31 00 50 55.1–.71 50.22N 156.45E 19 4.1b **¶16401549**
KRSC Event type se.
MOS Error ellipse: s-maj=34.6km s-min=11.6km az=80.1.
ISC III 31 19 12 42.4–.90 50.1N–.10 155.6E–.10 200 3.0b 52 1-62
MOS III 31 19 12 37.5–1.2 49.12N 156.99E 197 4.2b **¶16401575**
KRSC III 31 19 12 39.5–1.3 50.05N 155.39E 224–13 3.9L
ISCJB III 31 19 12 42.0–.64 50.1N–.20 155.3E–.30 200 2.9b
IDC III 31 19 12 42.4–6.8 50.53N 154.44E 202–35 3.3,3.1
ISC Event type se.
MOS Error ellipse: s-maj=21.5km s-min=6.2km az=77.8.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=34.9km s-min=5.1km az=42.4.
IDC Error ellipse: s-maj=121.6km s-min=22.2km az=171.0.
ISC IV 01 08 59 09.0–1.5 48.1N–.10 154.8E–.20 42 3.5b 30 3-76
IDC IV 01 08 58 58.9–2.2 47.70N 153.81E 0 3.6,3.5 **¶16403550**
KRSC IV 01 08 59 08.8–1.8 48.08N 156.00E 31–43 4.3L,3.5
MOS IV 01 08 59 09.8–1.5 48.31N 154.49E 60 4.4b,3.5
SKHL IV 01 08 59 11.4–4.7 48.24N 154.62E 74–4 4.5b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=51.2km s-min=27.6km az=168.0.
KRSC Event type se.
MOS Error ellipse: s-maj=63.9km s-min=7.2km az=71.4.
ISC IV 01 09 20 40.3–1.1 44.48N–.05 148.18E–.07 57–9 3.9b,3.0s 94 1-151
NIED IV 01 09 20 00 44.10N 148.10E 53 3.9W,3.0s **¶16455805**
JMA IV 01 09 20 38.6–.30 44.06N 148.08E 0 4.9,3.0s
MOS IV 01 09 20 38.9–1.4 44.55N 148.12E 63 4.2b,3.0s
ISCJB IV 01 09 20 39.0–.71 44.45N–.04 148.22E–.07 63–5 3.9b,3.0s
SKHL IV 01 09 20 39.6–.90 44.45N 148.31E 71–8 4.7b,3.0s
IDC IV 01 09 20 42.5–2.9 44.58N 148.19E 75–25 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S247.00000°,δ20.00000°,λ129.00000°. NP2:ϕ_S26.00000°,δ75.00000°,λ77.00000°. $M_0$7.94000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
MOS Error ellipse: s-maj=11.6km s-min=8.4km az=91.7.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.9km az=36.8.
IDC Error ellipse: s-maj=16.3km s-min=12.2km az=140.0.
ISC IV 01 12 19 53.1–3.1 43.4N–.10 147.2E–.10 30–13 14 1-8
SKHL IV 01 12 19 54.7–.50 43.51N 147.13E 35–3 4.1b **¶600575082**

JMA IV 01 12 19 54.2–.20 43.40N 147.05E 53 2.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
KRSC IV 01 15 57 39.5–1.9 50.86N 157.18E 108–27 3.9L ¶16403551
KRSC Event type se.
ISC IV 01 19 47 31.3–.80 48.1N–.10 154.7E–.10 42 3.7b 57 3-76
MOS IV 01 19 47 27.5–1.8 47.74N 155.72E 16 4.5b **¶16403552**
SKHL IV 01 19 47 29.9–1.1 47.94N 155.23E 54–4 4.5b
ISCJB IV 01 19 47 30.1–.58 48.15N–.07 154.7E–.10 42 3.6b
KRSC IV 01 19 47 31.0–1.9 48.09N 156.34E 16–30 4.4L
IDC IV 01 19 47 34.3–4.0 48.26N 154.35E 69–37 3.6,3.6
ISC Event type se.
MOS Error ellipse: s-maj=45.7km s-min=6.1km az=78.4.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=4.1km az=38.4.
KRSC Event type se.
IDC Error ellipse: s-maj=31.2km s-min=17.1km az=149.0.
ISC IV 02 06 25 39.2–2.5 43.7N–.10 147.5E–.10 41–29 14 0-5
JMA IV 02 06 25 40.4–.20 43.65N 147.31E 57–4 2.8 **¶600575787**
SKHL IV 02 06 25 40.0–.60 43.74N 147.42E 43–1 2.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 02 16 32 53.4–.97 44.5N–.10 146.4E–.10 184–11 3.3b 26 1-83
ISCJB IV 02 16 32 53.2–.73 44.4N–.10 146.3E–.10 196–9 3.3b **¶17199549**
JMA IV 02 16 32 54.8–.40 44.46N 146.45E 168–4 3.3
IDC IV 02 16 32 55.1–5.7 44.87N 146.01E 183–53 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=14.7km az=3.4.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=61.3km s-min=34.4km az=155.0.
ISC IV 03 10 25 53.7–3.5 50.0N–.20 156.3E–.10 55 27 1-9
KRSC IV 03 10 25 50.0–.81 49.93N 156.60E 46–18 4.1L **¶16406026**
MOS IV 03 10 25 54.4–.90 50.21N 156.20E 35 4.2b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=36.2km s-min=9.4km az=76.1.
SKHL IV 03 21 46 07.9–1.0 43.27N 147.11E 40–6 4.1b ¶600972798
ISC IV 03 22 24 04.2–.87 50.4N–.10 154.6E–.10 200 3.3b 41 1-75
MOS IV 03 22 24 01.8–.63 49.99N 155.01E 233 4.0b **¶16406031**
ISCJB IV 03 22 24 03.0–.60 50.3N–.10 154.4E–.10 200 3.3b
KRSC IV 03 22 24 03.8–2.1 49.95N 155.70E 222–15 4.1L
IDC IV 03 22 24 05.7–2.4 50.50N 154.36E 208–22 3.7,3.3
ISC Event type se.
MOS Error ellipse: s-maj=26.1km s-min=8.2km az=65.9.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=6.3km az=149.3.
KRSC Event type se.
IDC Error ellipse: s-maj=23.7km s-min=15.7km az=170.0.
ISC IV 04 01 07 19.0–1.1 49.64N–.10 156.54E–.09 57 3.5b 48 1-78
IDC IV 04 01 07 11.5–1.6 49.53N 156.36E 0 3.7,3.5 **¶16408806**
MOS IV 04 01 07 13.9–1.1 49.40N 156.42E 33 4.3b,3.5
KRSC IV 04 01 07 15.3–1.4 49.65N 157.16E 16–26 4.4L,3.5
ISCJB IV 04 01 07 17.3–.77 49.63N–.06 156.6E–.10 57 3.7b,3.6s
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
IDC IV 04 09 10 37.5–1.4 45.59N 150.09E 0 4.1s,4.1 ¶17199752
IDC Error ellipse: s-maj=47.0km s-min=33.2km az=108.0.
ISC IV 04 16 31 39.8–4.0 43.5N–.20 147.4E–.20 52–30 8 1-5
JMA IV 04 16 31 40.9–.20 43.48N 147.21E 40–4 3.3 **¶600577497**
SKHL IV 04 16 31 41.4–.50 43.55N 147.29E 45–4 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC IV 04 20 02 10.3–3.0 44.00N–.09 148.3E–.10 11–12 20 1-5
JMA IV 04 20 02 10.7–.30 43.77N 148.17E 3 3.6 **¶600577621**
SKHL IV 04 20 02 12.8–.60 43.96N 148.34E 38–1 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
SKHL IV 05 08 18 11.4–.60 44.90N 149.32E 39 4.7b ¶600972824
ISC IV 05 09 50 13.3–.75 47.11N–.09 152.67E–.09 100 4.0b 48 4-78
ISCJB IV 05 09 50 11.9–.59 47.08N–.07 152.7E–.10 100 3.9b **¶16705670**
MOS IV 05 09 50 14.7–1.1 47.19N 152.48E 132 4.0b
SKHL IV 05 09 50 14.9–.30 47.02N 152.71E 124–4 5.3s,4.9b
IDC IV 05 09 50 16.4–2.7 47.25N 152.38E 126–23 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=4.8km az=136.2.
MOS Error ellipse: s-maj=14.8km s-min=8.6km az=72.6.
IDC Error ellipse: s-maj=19.1km s-min=12.8km az=129.0.
ISC IV 05 23 38 27.0–2.3 43.72N–.10 147.5E–.10 86–13 24 0-8
ISCJB IV 05 23 38 28.0–1.2 43.81N–.08 147.30E–.10 86–8 **¶600578588**
SKHL IV 05 23 38 29.9–.60 43.89N 147.37E 79–6 4.1b
JMA IV 05 23 38 30.0–.20 43.68N 147.20E 81–4 3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=6.8km az=139.0.
JMA Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
ISC IV 06 19 17 31.6–.75 44.38N–.07 149.0E–.10 39–4 3.7b 55 1-81
NIED IV 06 19 17 00 44.70N 149.00E 35 3.9W **¶17200042**
MOS IV 06 19 17 29.9–1.2 44.44N 149.06E 40 4.0b
IDC IV 06 19 17 30.0–.93 45.28N 148.94E 0 3.9,3.7
ISCJB IV 06 19 17 30.5–.99 44.38N–.06 149.01E–.08 44–8 3.6b,3.7
JMA IV 06 19 17 30.3–.80 44.69N 148.96E 30 4.2,3.7
SKHL IV 06 19 17 31.1–.50 44.38N 149.13E 51–5 4.6b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ24.00000°,λ122.00000°. NP2:ϕ_s19.00000°,δ70.00000°,λ77.00000°. $M_0$9.19000×10^{14}
MOS Error ellipse: s-maj=15.1km s-min=13.1km az=90.6.
IDC Error ellipse: s-maj=27.0km s-min=18.2km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=6.5km az=138.3.
JMA Error ellipse: s-maj=6.7km s-min=6.3km az=-1.0.
ISC IV 07 01 22 35.0–1.2 43.79N–.07 147.38E–.07 49–9 3.7b 58 0-82
MOS IV 07 01 22 33.6–1.3 43.74N 147.37E 58 4.1b **¶600252303**
SKHL IV 07 01 22 33.5–.40 43.68N 147.56E 61–2 4.7b
ISCJB IV 07 01 22 34.7–.78 43.82N–.07 147.32E–.08 59–6 3.7b
JMA IV 07 01 22 35.9–.20 43.69N 147.24E 35 4.1
IDC IV 07 01 23 28.2–3.1 45.90N 146.05E 542–52 3.8,3.2
ISC Event type ke.
MOS Error ellipse: s-maj=22.4km s-min=13.3km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=5.2km az=140.7.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=39.7km s-min=24.8km az=166.0.
KRSC IV 07 04 30 52.8–1.9 48.76N 155.64E 244–19 4.3L
MOS IV 07 04 30 52.8–1.3 48.76N 155.64E 244 4.4b **¶16414225**
SKHL IV 07 04 30 52.9–.60 48.88N 154.99E 195–13 4.9s,4.3b
KRSC Event type se.
MOS Error ellipse: s-maj=99.9km s-min=10.6km az=74.2.
ISC IV 08 10 55 25.6–.59 48.14N–.07 153.37E–.06 117 4.1b 78 3-148
ISCJB IV 08 10 55 24.0–.44 48.04N–.05 153.50E–.07 117 4.1b **¶16416674**
KRSC IV 08 10 55 23.0–1.3 48.10N 153.62E 212–28 4.6L
SKHL IV 08 10 55 25.8–.70 47.98N 153.74E 142–1 5.0s,4.9b
MOS IV 08 10 55 26.8–.83 48.23N 153.54E 159 4.1b,4.9b
IDC IV 08 10 55 29.1–2.8 48.19N 153.12E 151–25 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=3.3km az=140.6.
KRSC Event type se.
MOS Error ellipse: s-maj=10.4km s-min=7.3km az=71.0.
IDC Error ellipse: s-maj=16.5km s-min=10.6km az=145.0.
ISC IV 08 18 42 29.6–.25 43.75N–.03 147.53E–.03 61–1 5.2b 1362 1-153
NIED IV 08 18 42 00 43.60N 147.60E 68 5.3W **¶16414585**
ISCJB IV 08 18 42 28.3–.30 43.69N–.02 147.58E–.02 62–2 5.2b
MOS IV 08 18 42 28.6–.91 43.71N 147.52E 65 5.5b,4.2s
NEIC IV 08 18 42 28.9–.29 43.72N 147.48E 54–2 5.3b,4.2s
BJI IV 08 18 42 28.7 43.90N 147.45E 59 5.2b,4.9b
JMA IV 08 18 42 28.9–.20 43.54N 147.53E 34 5.2,4.9b
SKHL IV 08 18 42 29.3–.20 43.64N 147.71E 66–4 5.8b,5.7
GCMT IV 08 18 42 29.0–.20 43.72N 147.56E 56–1 5.3W,5.7
IDC IV 08 18 42 29.9–.31 43.74N 147.49E 61–2 5.0,4.9
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ50.00000°,λ3.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ140.00000°. $M_0$8.98000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.1km az=166.7.
MOS Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=105.4. Felt (IV) at Malokuril'skoye, (III-IV) at Kuril'sk, (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=158.0. Felt [IV] at Kuril'sk and Shakotan and [II] at Yuzhno-Kuril'sk. Recorded [2 JMA] in eastern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
SKHL Event type fe. Felt (IV) at Malokurilskoe.Kurilsk; at (II) Yushno-Kurilsk.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c105; s96,c170; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.02 $M_{\theta\theta}$0.54±.02; $M_{\phi\phi}$-0.68±.02; $M_{r\theta}$0.63±.02; $M_{\theta\phi}$-0.49±.02; $M_{\phi r}$0.26±.02; Best double couple: NP1:ϕ_s62.00000°,δ84.00000°,λ138.00000°. NP2:ϕ_s157.00000°,δ49.00000°,λ8.00000°. Principal axes: T 1.0390,Plg33.0000°,Azm10.0000°; N 0.0150,Plg48.0000°,Azm235.0000°; P -1.0550,Plg23.0000°,Azm116.0000° $M_0$1.04700×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=7.4km az=161.0.
KRSC IV 09 08 16 21.0–.85 50.19N 157.20E 60–20 3.5L ¶16416707
KRSC Event type se.
KRSC IV 09 22 21 50.8–2.5 50.26N 157.13E 45–23 4.3L
MOS IV 09 22 21 50.8–2.3 50.26N 157.13E 45 4.4b **¶16416711**
KRSC Event type se.
MOS Error ellipse: s-maj=36.5km s-min=7.5km az=79.7.
SKHL IV 10 11 25 02.2–.30 44.26N 149.20E 59–5 4.3b ¶600972894
ISC IV 10 12 02 59.4–.43 46.26N–.05 153.07E–.04 40 4.7b,4.1s 336 4-149
NIED IV 10 12 02 00 46.60N 153.30E 5 4.6W,4.1s **¶600582762**
JMA IV 10 12 02 53.0–.60 46.58N 153.30E 30 4.6,4.1s
IDC IV 10 12 02 54.0–.56 46.38N 153.03E 0 4.4,4.3
BJI IV 10 12 02 54.7 46.59N 153.40E 30 4.9b,4.7b
SKHL IV 10 12 02 57.1–.60 46.09N 153.32E 44–4 5.5b,4.8s
MOS IV 10 12 02 57.2–1.0 46.32N 153.00E 33 4.9b,4.0s
ISCJB IV 10 12 02 58.2–.20 46.29N–.04 153.03E–.03 40 4.6b,4.0s
NEIC IV 10 12 03 00.1–.70 46.41N 152.97E 38–6 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ27.00000°,λ52.00000°. NP2:ϕ_s237.00000°,δ69.00000°,λ107.00000°. $M_0$1.04000×10^{16}
JMA Error ellipse: s-maj=8.9km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=11.3km az=152.0.
MOS Error ellipse: s-maj=7.8km s-min=5.4km az=87.4.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.5km az=163.9.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.2km az=160.0.
ISC IV 10 16 11 48.8–.73 46.29N–.09 153.14E–.08 40 3.7b 44 4-78
BJI IV 10 16 11 46.4 46.87N 153.56E 50 4.9b,4.3b **¶16506276**
ISCJB IV 10 16 11 47.8–.63 46.40N–.08 153.02E–.10 40 3.7b,3.1s
SKHL IV 10 16 11 49.0–.70 46.24N 153.11E 64–5 4.7b,3.1s
MOS IV 10 16 11 49.3–1.4 46.55N 152.86E 52 4.3b,3.1s
IDC IV 10 16 11 51.7–3.3 46.49N 152.94E 56–29 5.0L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=5.2km az=139.3.
MOS Error ellipse: s-maj=14.2km s-min=9.3km az=71.9.
IDC Error ellipse: s-maj=24.0km s-min=14.4km az=150.0.
ISC IV 10 18 29 44.4–2.6 46.3N–.40 153.1E–.30 31 3.7b 8 7-79
IDC IV 10 18 29 39.7–2.7 46.24N 153.07E 0 3.8,3.6 **¶17200491**
ISCJB IV 10 18 29 42.5–2.4 46.3N–.30 153.1E–.40 31 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 18 53 56.7–3.6 43.82N–.09 147.4E–.10 38–3 24 0-8
ISCJB IV 11 18 53 56.2–1.2 43.86N–.08 147.3E–.10 50–9 **¶600584067**
SKHL IV 11 18 53 56.7–.20 43.83N 147.37E 43–4 4.1b
JMA IV 11 18 53 56.5–.20 43.70N 147.26E 31–5 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=6.6km az=136.0.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 11 20 48 22.8–3.8 44.56N–.09 149.5E–.20 36 20 1-8
SKHL IV 11 20 48 19.9–.30 44.51N 149.66E 34–4 4.6b **¶600584162**
JMA IV 11 20 48 19.8–.80 44.92N 149.60E 30 3.5
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=7.9km az=-1.0.
ISC IV 12 14 03 40.8–.52 45.28N–.06 150.81E–.06 42 4.1b,3.5s 147 2-81
NIED IV 12 14 03 00 45.40N 151.00E 32 4.1W,3.5s **¶16427684**
JMA IV 12 14 03 37.8–.50 45.42N 150.99E 30 4.8,3.5s
SKHL IV 12 14 03 39.2–.80 45.26N 150.95E 48–5 4.9b,3.5s
MOS IV 12 14 03 39.1–1.6 45.26N 150.91E 45 4.3b,3.5s
ISCJB IV 12 14 03 39.6–.34 45.32N–.04 150.71E–.04 42 4.1b,3.7s
BJI IV 12 14 03 41.9 45.28N 150.74E 69 4.9b,4.6s
IDC IV 12 14 03 42.1–2.7 45.40N 150.72E 49–24 3.9,3.9
NEIC IV 12 14 03 43.8–.99 45.22N 150.75E 75–8 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ75.00000°,λ3.00000°. NP2:ϕ_s36.00000°,δ88.00000°,λ165.00000°. $M_0$1.60000×10^{15}
JMA Error ellipse: s-maj=5.6km s-min=4.7km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=6.3km az=103.4.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.9km az=143.0.
IDC Error ellipse: s-maj=18.6km s-min=13.7km az=150.0.
NEIC Event type se. Error ellipse: s-maj=18.2km s-min=7.7km az=132.0.
ISC IV 12 16 41 12.5–1.1 49.8N–.10 155.7E–.10 123 3.5b 54 1-74
ISCJB IV 12 16 41 12.4–.76 50.0N–.10 155.5E–.20 123 3.5b **¶16424693**
MOS IV 12 16 41 12.3–1.3 49.97N 155.41E 132 4.0b
KRSC IV 12 16 41 13.4–1.9 49.68N 156.70E 101–37 4.1L
IDC IV 12 16 41 16.4–2.9 50.20N 155.30E 144–24 3.6,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.0km s-min=5.9km az=42.7.
MOS Error ellipse: s-maj=28.3km s-min=7.0km az=70.0.
KRSC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=16.6km az=162.0.
ISC IV 13 19 35 31.5–2.5 43.6N–.10 147.7E–.10 60–24 20 1-4
SKHL IV 13 19 35 32.8–.30 43.57N 147.65E 57–5 4.3b **¶600586925**
JMA IV 13 19 35 33.0–.30 43.46N 147.51E 54 2.9
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC IV 14 15 49 48.8–1.2 43.14N–.09 146.11E–.05 72–7 3.7b 45 0-70
NIED IV 14 15 49 00 43.10N 146.00E 68 3.3W **¶600587704**
MOS IV 14 15 49 47.4–.95 43.04N 146.13E 87 4.0b
ISCJB IV 14 15 49 48.2–.84 43.15N–.07 146.11E–.07 81–4 3.7b
SKHL IV 14 15 49 50.7–.40 43.13N 146.11E 47–2 4.3b
JMA IV 14 15 49 50.0–.10 43.15N 146.04E 70–1 3.8
IDC IV 14 15 49 55.3–2.8 45.51N 144.86E 0 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ36.00000°,λ58.00000°. NP2:ϕ_s24.00000°,δ60.00000°,λ111.00000°. $M_0$1.16000×10^{14}
MOS Error ellipse: s-maj=24.1km s-min=14.2km az=105.1.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=5.7km az=149.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=62.5km s-min=26.3km az=136.0.
ISC IV 14 17 45 02.5–.46 48.70N–.05 152.87E–.05 150 3.4b 70 3-77
KRSC IV 14 17 45 01.4–2.7 47.85N 154.87E 149–46 4.3L **¶16437947**
MOS IV 14 17 45 01.5–1.4 48.49N 153.04E 179 3.8b
SKHL IV 14 17 45 01.1–.40 48.58N 153.06E 154–5 5.3s,4.7b
IDC IV 14 17 45 04.7–2.0 48.57N 152.87E 194–19 3.6,3.2
ISC Event type se.
KRSC Event type se.

MOS Error ellipse: s-maj=13.7km s-min=6.0km az=62.9.
IDC Error ellipse: s-maj=16.8km s-min=11.3km az=140.0.
ISC IV 14 22 48 42.4–2.7 43.66N–.10 147.5E–.10 34–3 21 1-5
JMA IV 14 22 48 43.5–.30 43.66N 147.25E 22 3.5 ¶600588140
SKHL IV 14 22 48 43.8–.30 43.74N 147.41E 36–2 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC IV 15 05 53 05.2–2.1 43.13N–.08 146.88E–.09 29–15 27 1-8
JMA IV 15 05 53 05.2–.20 43.13N 146.84E 59–3 3.4 ¶600588571
SKHL IV 15 05 53 05.3–.40 43.10N 146.96E 44–1 4.2b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
ISC IV 15 08 53 49.0–.57 48.69N–.07 155.25E–.07 43 3.8b,3.3s 83 2-75
ISCJB IV 15 08 53 48.4–.48 48.77N–.05 155.12E–.09 43 3.9b,3.1s ¶16440075
MOS IV 15 08 53 49.2–1.6 48.79N 155.12E 57 4.1b,3.1s
KRSC IV 15 08 53 49.9–2.2 48.72N 156.54E 25–10 4.7L,3.1s
SKHL IV 15 08 53 49.8–.30 48.74N 155.07E 62–5 4.6b,3.1s
IDC IV 15 08 53 50.5–.62 48.80N 155.02E 49–5 3.8,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=3.3km az=41.2.
MOS Error ellipse: s-maj=13.9km s-min=5.8km az=70.3.
KRSC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=11.4km az=138.0.
ISC IV 15 16 29 07.7–.67 44.80N–.07 146.36E–.06 190–7 3.3b 38 1-83
ISCJB IV 15 16 29 07.1–.41 44.79N–.07 146.37E–.07 194–4 3.1b ¶17201146
JMA IV 15 16 29 08.4–.50 44.84N 146.31E 187–4 3.2
IDC IV 15 16 29 09.8–1.2 45.29N 146.00E 190–13 3.6,3.3
SKHL IV 15 16 29 09.4–.80 44.79N 146.44E 161–1 4.7s,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.5km az=152.2.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=12.5km az=162.0.
ISC IV 16 04 00 08.4–.58 46.63N–.04 152.78E–.04 44–4 4.6b,3.9s 433 4-154
JMA IV 16 04 00 05.3–.70 46.57N 153.17E 30 5.4,3.9s ¶16442659
BJI IV 16 04 00 06.8 46.81N 153.09E 55 4.9b,4.7b
ISCJB IV 16 04 00 07.2–.47 46.67N–.03 152.75E–.04 45–4 4.6b,3.8s
MOS IV 16 04 00 07.9–.86 46.73N 152.74E 51 4.8b,3.8s
SKHL IV 16 04 00 08.9–1.0 46.54N 152.93E 70–10 4.9b,4.1s
NEIC IV 16 04 00 11.5–.50 46.78N 152.66E 68–4 4.6b,4.1s
IDC IV 16 04 00 11.6–2.1 46.76N 152.66E 69–18 4.5,4.3
ISC Event type se.
JMA Error ellipse: s-maj=7.8km s-min=6.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.0km az=145.1.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=96.4.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=2.7km az=149.0.
IDC Error ellipse: s-maj=13.7km s-min=9.7km az=140.0.
ISC IV 16 18 03 25.2–2.0 43.22N–.08 146.17E–.06 4–13 18 0-4
JMA IV 16 18 03 28.6–.10 43.34N 146.07E 50–1 3.2 ¶600590060
SKHL IV 16 18 03 29.2–.30 43.39N 146.12E 21–1 4.7b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 17 04 59 00.1–3.4 43.47N–.10 147.00E–.10 15–17 14 0-5
ISCJB IV 17 04 59 00.9–1.9 43.42N–.09 147.0E–.10 31–8 ¶600590498
JMA IV 17 04 59 00.3–.50 43.56N 146.95E 17 2.8
SKHL IV 17 04 59 01.5–.00 43.41N 147.04E 27–1 4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.2km s-min=7.0km az=138.5.
JMA Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.
ISC IV 18 09 11 20.4–2.2 44.31N–.08 148.1E–.10 10 18 1-8
JMA IV 18 09 11 21.2–.30 43.95N 148.11E 0 4.0 ¶600591454
SKHL IV 18 09 11 22.4–.20 44.39N 148.30E 38–1 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
ISC IV 18 16 33 50.6–1.0 46.5N–.10 153.6E–.10 24 3.7b 19 4-77
IDC IV 18 16 33 46.9–4.4 46.88N 152.68E 0 3.9,3.7 ¶17201425
ISCJB IV 18 16 33 50.0–.97 46.6N–.10 153.5E–.10 24 3.7b,3.7
SKHL IV 18 16 33 52.8–.40 46.53N 153.59E 78–6 4.5b,3.7
MOS IV 18 16 33 56.9–1.2 46.86N 152.62E 99 4.0b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=111.2km s-min=36.7km az=7.0.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=6.8km az=145.5.
MOS Error ellipse: s-maj=41.0km s-min=17.1km az=60.7.
SKHL IV 19 15 01 27.2–.30 44.10N 148.87E 49 4.2b
¶600973048
ISC IV 19 23 43 35.4–.54 48.80N–.06 153.15E–.05 175–4 4.1b 238 3-148
KRSC IV 19 23 43 30.2–2.1 48.15N 154.25E 196–30 4.9L ¶16448798
ISCJB IV 19 23 43 33.6–.28 48.75N–.04 153.17E–.05 170–3 4.1b
SKHL IV 19 23 43 33.3–.50 48.68N 153.33E 162–3 5.3b,4.8s
MOS IV 19 23 43 34.1–1.0 48.81N 153.10E 172 4.3b,4.8s
BJI IV 19 23 43 35.0 48.90N 153.00E 168 4.6b,4.5b
IDC IV 19 23 43 36.4–.69 48.95N 152.87E 176–5 4.3,4.0
NEIC IV 19 23 43 36.4–.69 48.87N 152.87E 182–6 4.4b,4.0
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=2.4km az=138.4.
MOS Error ellipse: s-maj=10.4km s-min=4.1km az=65.3.
IDC Error ellipse: s-maj=12.3km s-min=7.5km az=148.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.0km az=138.0.
ISC IV 20 00 21 54.2–.94 44.39N–.06 148.11E–.07 89–7 3.8b 69 1-82
ISCJB IV 20 00 21 53.8–.68 44.42N–.06 148.09E–.09 98–4 3.7b ¶16450780
MOS IV 20 00 21 54.5–1.4 44.60N 147.93E 100 3.9b
SKHL IV 20 00 21 55.8–.50 44.58N 147.88E 105–5 4.8s,4.8b
JMA IV 20 00 21 55.8–.40 44.04N 148.17E 79 3.8,4.8b
IDC IV 20 00 21 56.1–2.6 44.53N 148.06E 98–23 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=5.7km az=42.8.
MOS Error ellipse: s-maj=11.4km s-min=8.3km az=89.4.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=20.5km s-min=14.6km az=148.0.
SKHL IV 20 04 51 02.8–.50 44.70N 149.37E 49–3 4.4b
¶600973077
ISC IV 21 12 02 02.9–1.6 44.8N–.10 146.7E–.10 189–12 25 1-9
ISCJB IV 21 12 02 02.3–1.1 44.8N–.10 146.8E–.20 196–11 ¶600594997
SKHL IV 21 12 02 02.5–.40 45.23N 145.93E 148–4 4.8s,4.5b
JMA IV 21 12 02 03.5–.50 44.81N 146.77E 196 3.2,4.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.8km s-min=7.7km az=138.5.
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISC IV 22 00 58 00.6–3.4 44.15N–.08 149.65E–.08 13–21 3.7b 59 2-80
NIED IV 22 00 58 00 44.50N 149.50E 23 3.8W ¶16505475
MOS IV 22 00 58 02.6–1.0 44.27N 149.70E 41 4.1b
JMA IV 22 00 58 03.2–.60 44.51N 149.53E 30 4.0
SKHL IV 22 00 58 03.0–.20 44.19N 149.77E 49–5 4.4b
IDC IV 22 00 58 20.6–3.5 45.02N 148.91E 138–30 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ30.00000°,λ58.00000°. NP2:ϕ_s45.00000°,δ65.00000°,λ107.00000°. $M_0$5.42000×10^{14}
MOS Error ellipse: s-maj=14.4km s-min=12.4km az=120.9.
JMA Error ellipse: s-maj=4.4km s-min=4.8km az=-1.0.
IDC Error ellipse: s-maj=65.9km s-min=19.7km az=164.0.
KRSC IV 22 09 09 11.9–1.4 49.40N 156.87E 16–24 3.7L
¶16452500
KRSC Event type se.
ISC IV 22 09 53 37.7–.56 48.60N–.07 153.41E–.06 132 3.4b 80 3-77
SKHL IV 22 09 53 38.2–.50 48.43N 153.53E 152–7 5.0s,4.7b ¶16452502
MOS IV 22 09 53 38.2–1.4 48.54N 153.51E 163 4.0b,4.7b
KRSC IV 22 09 53 40.1–1.7 48.32N 154.83E 190–20 4.0L,4.7b
IDC IV 22 09 53 41.5–2.1 48.58N 153.37E 173–20 3.7,3.4
ISC Event type se.
MOS Error ellipse: s-maj=13.4km s-min=5.8km az=62.1.
KRSC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=11.4km az=135.0.
KRSC IV 22 14 49 31.3–2.1 50.66N 157.87E 80–25 3.7L
¶16452503
KRSC Event type se.
ISC IV 22 20 34 52.0–1.4 44.54N–.05 148.38E–.10 63–11 3.5b 58 1-81
NIED IV 22 20 34 00 44.10N 148.20E 53 3.9W ¶16505493
IDC IV 22 20 34 50.3–4.8 44.63N 148.29E 46–45 3.7,3.6
MOS IV 22 20 34 51.1–1.6 44.60N 148.30E 74 4.0b,3.6
ISCJB IV 22 20 34 51.4–.85 44.56N–.05 148.34E–.09 71–6 3.4b,3.6
JMA IV 22 20 34 51.6–.40 44.12N 148.20E 0 4.6,3.6
SKHL IV 22 20 34 52.0–.10 44.64N 148.42E 74–4 4.6b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ57.00000°,λ-165.00000°. NP2:ϕ_s144.00000°,δ77.00000°,λ-34.00000°. $M_0$7.33000×10^{14}
IDC Error ellipse: s-maj=22.0km s-min=19.4km az=113.0.
MOS Error ellipse: s-maj=12.3km s-min=11.0km az=108.9.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=6.3km az=27.4.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
ISC IV 24 13 27 48.8–.78 44.39N–.05 149.20E–.04 32–5 4.6b,3.8s 567 1-152
NIED IV 24 13 27 00 44.50N 149.00E 32 4.5W,3.8s ¶16453015
IDC IV 24 13 27 43.7–.47 44.30N 149.15E 0 4.3,4.3
ISCJB IV 24 13 27 45.1–.87 44.34N–.03 149.18E–.03 18–6 4.5b,3.9s
BJI IV 24 13 27 46.0 44.47N 149.60E 41 4.8b,4.6b
JMA IV 24 13 27 48.0–1.2 44.50N 148.96E 30 4.7,4.6b
SKHL IV 24 13 27 48.6–.30 44.33N 149.25E 50–5 5.0b,4.6s
MOS IV 24 13 27 48.5–.87 44.35N 149.11E 43 4.7b,4.6s
NEIC IV 24 13 27 49.8–.48 44.42N 149.05E 37–4 4.6b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ73.00000°,λ-17.00000°. NP2:ϕ_s271.00000°,δ74.00000°,λ-162.00000°. $M_0$6.31000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=11.8km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.0km az=161.6.
JMA Error ellipse: s-maj=7.8km s-min=9.5km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=6.2km az=83.8.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=2.9km az=149.0.
ISC IV 24 20 34 49.3–2.4 43.5N–.10 147.6E–.10 54–28 22 1-5
SKHL IV 24 20 34 50.1–.30 43.52N 147.63E 64–3 4.4b ¶600598518
JMA IV 24 20 34 51.1–.20 43.50N 147.44E 52 3.2
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC IV 24 22 03 48.2–.63 46.69N–.08 152.97E–.08 40 3.9b 79 4-148
ISCJB IV 24 22 03 46.8–.49 46.71N–.06 152.95E–.08 40 3.8b,3.2s ¶16505520
MOS IV 24 22 03 48.9–1.2 46.73N 152.89E 61 4.2b,3.2s
SKHL IV 24 22 03 48.6–.70 46.67N 153.00E 60–5 4.5b,3.2s
IDC IV 24 22 03 55.1–2.3 46.86N 152.68E 95–20 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.2km az=140.6.
MOS Error ellipse: s-maj=12.8km s-min=8.8km az=85.0.
IDC Error ellipse: s-maj=18.2km s-min=11.5km az=138.0.
ISC IV 25 14 53 17.3–.58 47.23N–.06 153.23E–.07 59 3.9b,3.6s 84 4-80
ISCJB IV 25 14 53 15.7–.44 47.22N–.05 153.25E–.06 59 3.9b,3.6s ¶17202052
MOS IV 25 14 53 17.5–1.9 47.22N 153.27E 78 4.2b,3.6s
SKHL IV 25 14 53 17.3–.40 47.17N 153.43E 75–5 4.8b,3.6s
IDC IV 25 14 53 22.3–2.2 47.38N 152.95E 99–19 4.0,3.8
BJI IV 25 14 53 42.2 47.50N 150.70E 212 4.6b,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.6km az=139.8.
MOS Error ellipse: s-maj=10.8km s-min=6.9km az=70.5.
IDC Error ellipse: s-maj=17.4km s-min=11.7km az=136.0.
KRSC IV 26 01 44 00.0–1.2 50.81N 157.43E 40–20 3.8L
¶16463557
KRSC Event type se.
ISC IV 26 08 11 23.8–1.5 49.28N–.08 156.90E–.09 53 3.7b 17 1-74
IDC IV 26 08 11 23.9–7.2 49.49N 158.82E 0 4.0,3.7b ¶16463558
KRSC IV 26 08 11 28.0–1.8 49.63N 157.10E 50–24 4.1L,3.7b
MOS IV 26 08 11 27.9–3.1 49.63N 157.10E 50 3.9b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=149.0km s-min=48.0km az=56.0.
KRSC Event type se.
MOS Error ellipse: s-maj=48.7km s-min=11.4km az=83.5.
KRSC IV 27 05 41 56.7–2.7 49.23N 156.93E 7–34 3.7L
¶16465961
KRSC Event type se.
ISC IV 27 07 13 50.0–.85 45.8N–.10 149.5E–.10 149 3.6b 21 1-80
ISCJB IV 27 07 13 49.3–.72 46.0N–.10 149.5E–.20 149 3.6b ¶16505547
SKHL IV 27 07 13 52.4–.40 45.01N 150.32E 48–2 4.3b
IDC IV 27 07 13 56.7–5.7 45.94N 149.28E 211–53 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=6.8km az=42.3.
IDC Error ellipse: s-maj=21.7km s-min=15.1km az=157.0.
ISC IV 27 11 47 18.6–.79 46.3N–.10 149.99E–.10 152 3.7b 45 4-98
ISCJB IV 27 11 47 17.9–.58 46.21N–.09 150.1E–.10 152 3.7b ¶17202232
IDC IV 27 11 47 22.8–2.0 46.74N 149.85E 170–18 3.9,3.6
JMA IV 27 11 47 22.7–.60 45.56N 150.24E 171 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=4.4km az=137.4.
IDC Error ellipse: s-maj=25.0km s-min=11.1km az=157.0.
JMA Error ellipse: s-maj=5.6km s-min=6.2km az=-1.0.
ISC IV 28 03 37 28.3–2.5 43.1N–.10 146.79E–.09 34–4 19 1-5
JMA IV 28 03 37 29.6–.20 43.19N 146.62E 60–2 3.1 ¶600601179
SKHL IV 28 03 37 29.5–.30 43.17N 146.84E 49–4 4.6b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
KRSC IV 28 12 25 24.7–1.1 49.93N 156.97E 20–19 3.8L
¶16482357
KRSC Event type se.
ISC IV 28 16 06 25.8–.54 47.18N–.06 150.83E–.05 174–4 4.2b 234 3-91
ISCJB IV 28 16 06 24.1–.36 47.17N–.04 150.87E–.05 173–3 4.2b ¶16485463
SKHL IV 28 16 06 24.4–.50 47.05N 150.85E 160–9 5.6s,4.7b
MOS IV 28 16 06 24.8–1.0 47.32N 150.79E 175 4.3b,4.7b
NEIC IV 28 16 06 26.7–.47 47.26N 150.81E 180–4 4.4b,4.7b
IDC IV 28 16 06 26.4–1.4 47.20N 150.80E 176–12 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.4km az=140.1.
MOS Error ellipse: s-maj=7.8km s-min=6.3km az=85.3.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.2km az=142.0.
IDC Error ellipse: s-maj=12.2km s-min=8.5km az=137.0.
KRSC IV 29 15 10 59.0–1.5 50.58N 157.79E 48–24 3.7L
¶16485186
KRSC Event type se.
ISC IV 30 01 14 19.4–.86 44.99N–.09 149.60E–.09 60 3.5b 18 1-81
SKHL IV 30 01 14 16.9–.10 44.92N 149.82E 30–4 4.4b ¶17202425
ISCJB IV 30 01 14 17.6–.73 44.98N–.08 149.64E–.08 60 3.5b
IDC IV 30 01 14 30.3–16 45.14N 149.54E 156–149 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=6.3km az=151.1.
IDC Error ellipse: s-maj=32.5km s-min=23.7km az=162.0.
ISC IV 30 06 02 33.7–.00 47.0N–.10 152.4E–.10 67 3.5b 25 4-72
ISCJB IV 30 06 02 31.2–.77 46.94N–.10 152.5E–.20 67 3.3b ¶17202441
SKHL IV 30 06 02 33.0–.60 46.85N 152.57E 90–5 5.3s,4.8b
IDC IV 30 06 02 35.3–3.1 46.91N 152.90E 90–27 3.7,3.4
MOS IV 30 06 02 36.5–1.6 47.00N 151.80E 101 4.1b,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=4.4km az=43.7.
IDC Error ellipse: s-maj=34.8km s-min=23.5km az=106.0.
MOS Error ellipse: s-maj=27.8km s-min=16.3km az=60.9.
ISC IV 30 10 19 49.1–1.1 49.06N–.10 156.6E–.10 10 3.6b 29 2-75
IDC IV 30 10 19 47.1–1.2 48.79N 156.92E 0 3.6,3.5 ¶16485919
MOS IV 30 10 19 50.9–1.4 49.08N 156.31E 41 4.4b,3.5
KRSC IV 30 10 19 55.7–2.2 49.46N 157.03E 41–17 4.2L,3.5
ISC Event type se.

IDC Error ellipse: s-maj=57.5km s-min=23.4km az=120.0.
MOS Error ellipse: s-maj=41.1km s-min=8.2km az=77.0.
KRSC Event type se.
KRSC IV 30 14 14 42.5–1.7 49.35N 156.69E 11–24 4.2L
MOS IV 30 14 14 52.2–1.9 50.07N 156.07E 13 4.3b **¶16485927**
KRSC Event type se.
MOS Error ellipse: s-maj=65.8km s-min=8.1km az=75.7.
ISC V 01 01 19 54.8–2.6 43.63N–.10 147.5E–.10 35–8 20 1-5
JMA V 01 01 19 55.0–.20 43.54N 147.38E 28 3.1 **¶600603710**
SKHL V 01 01 19 55.7–.10 43.70N 147.50E 33–2 4.6b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC V 01 15 12 09.7–.63 44.05N–.05 146.34E–.05 107–5 3.6b 78 0-83
ISCJB V 01 15 12 08.9–.37 44.05N–.04 146.37E–.06 115–3 3.5b **¶17202528**
MOS V 01 15 12 08.9–1.2 44.12N 146.35E 117 4.0b
SKHL V 01 15 12 10.8–.40 44.10N 146.20E 111–3 5.8,4.9b
IDC V 01 15 12 10.9–2.0 44.20N 146.15E 118–18 3.7,3.5
JMA V 01 15 12 10.6–.20 44.04N 146.37E 99–2 3.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.0km az=139.1.
MOS Error ellipse: s-maj=16.2km s-min=8.5km az=70.5.
IDC Error ellipse: s-maj=18.8km s-min=13.3km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC V 01 17 55 35.2–1.0 47.9N–.20 152.7E–.20 117 3.3b 11 6-77
ISCJB V 01 17 55 33.1–.94 47.9N–.20 152.7E–.20 117 3.4b **¶17202546**
IDC V 01 17 55 37.8–2.6 47.89N 152.58E 148–23 3.5,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.0km s-min=16.5km az=143.2.
IDC Error ellipse: s-maj=28.8km s-min=17.8km az=141.0.
ISC V 02 10 43 45.6–1.8 43.76N–.07 147.43E–.06 25–12 3.6b,3.1s 57 0-56
NIED V 02 10 43 00 43.50N 147.40E 35 3.8W,3.1s **¶17202611**
IDC V 02 10 43 42.3–3.7 43.83N 147.48E 0 3.9,3.8b
JMA V 02 10 43 45.9–.30 43.50N 147.35E 23–5 4.0,3.8b
SKHL V 02 10 43 47.1–.80 43.80N 147.40E 59–5 4.8b,3.8b
MOS V 02 10 43 47.7–1.5 44.02N 147.16E 51 4.1b,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ40.00000°,λ29.00000°. NP2:ϕ_s94.00000°,δ72.00000°,λ126.00000°. $M_0$5.93000×10^{14}
IDC Error ellipse: s-maj=91.7km s-min=21.9km az=163.0.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
MOS Error ellipse: s-maj=12.3km s-min=8.9km az=84.5.
ISC V 03 15 41 35.0–.55 45.16N–.04 147.98E–.05 131–4 4.1b 217 0-152
NIED V 03 15 41 00 44.80N 148.20E 107 4.2W **¶16493773**
ISCJB V 03 15 41 34.0–.32 45.15N–.03 147.99E–.04 134–2 4.0b
MOS V 03 15 41 33.8–1.2 45.23N 147.97E 132 4.1b
SKHL V 03 15 41 34.4–.70 45.10N 148.10E 128–11 5.5,5.4
JMA V 03 15 41 35.5–.70 44.84N 148.21E 119 4.5,5.4
IDC V 03 15 41 36.5–1.5 45.34N 147.85E 138–14 4.2,3.9
NEIC V 03 15 41 36.2–.46 45.28N 147.82E 137–4 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ30.00000°,λ142.00000°. NP2:ϕ_s218.00000°,δ72.00000°,λ66.00000°. $M_0$2.29000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=38.6.
MOS Error ellipse: s-maj=8.3km s-min=6.0km az=83.0.
JMA Error ellipse: s-maj=4.4km s-min=6.3km az=-1.0.
IDC Error ellipse: s-maj=11.5km s-min=8.7km az=125.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=143.0.
KRSC V 04 07 29 24.2–1.4 50.30N 156.44E 98–21 3.6L
¶16497626
KRSC Event type se.
ISC V 05 13 43 27.3–3.0 44.2N–.10 148.3E–.20 55–36 25 1-6
JMA V 05 13 43 29.3–.20 44.04N 147.94E 19 3.7 **¶600607298**
SKHL V 05 13 43 30.0–.30 44.30N 148.10E 40–3 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISC V 06 07 16 58.0–4.0 44.3N–.10 148.7E–.20 55 17 1-8
SKHL V 06 07 16 58.0–.20 44.40N 148.90E 43–2 4.7b **¶600607798**
JMA V 06 07 16 58.5–.60 44.48N 148.44E 98 3.7
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=6.3km az=-1.0.
ISC V 06 21 58 34.0–1.6 43.10N–.08 146.32E–.05 25–11 3.5b 27 0-70
NIED V 06 21 58 00 43.20N 146.30E 50 3.6W **¶17202956**
IDC V 06 21 58 29.9–2.4 43.04N 146.45E 0 3.7,3.5
JMA V 06 21 58 36.7–.10 43.20N 146.27E 49–1 3.5,3.5
SKHL V 06 21 58 37.2–.50 43.20N 146.30E 30–1 4.7b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s106.00000°,δ71.00000°,λ92.00000°. $M_0$2.78000×10^{14}
IDC Error ellipse: s-maj=68.7km s-min=25.6km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC V 07 03 39 04.1–.98 46.4N–.10 153.34E–.09 24 4.2b 85 4-78
IDC V 07 03 38 59.5–2.0 46.31N 153.44E 0 4.1b,4.1 **¶16560921**
ISCJB V 07 03 39 02.1–.70 46.43N–.07 153.35E–.10 24 4.0b,3.5s
NEIC V 07 03 39 03.6–3.0 46.36N 153.44E 24–19 4.4b,3.5s
MOS V 07 03 39 03.7–1.1 46.62N 153.36E 30 4.4b,3.5s
SKHL V 07 03 39 05.4–.30 46.50N 153.40E 52–5 5.4,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=50.3km s-min=20.9km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=3.9km az=139.0.
NEIC Event type se. Error ellipse: s-maj=24.1km s-min=9.0km az=152.0.
MOS Error ellipse: s-maj=13.5km s-min=9.7km az=80.1.
KRSC V 07 08 55 21.2–2.2 48.61N 155.22E 72–27 3.6L
¶16499288
KRSC Event type se.
ISC V 08 08 51 32.6–.88 44.07N–.07 147.19E–.07 91–6 3.5b 43 0-81
ISCJB V 08 08 51 31.6–.70 44.08N–.07 147.21E–.09 100–4 3.5b **¶600609650**
MOS V 08 08 51 31.4–1.3 44.09N 147.23E 107 4.0b
IDC V 08 08 51 32.0–2.6 45.98N 146.37E 0 3.8,3.7
SKHL V 08 08 51 33.3–.20 44.20N 147.10E 106–5 5.8,4.8b
JMA V 08 08 51 33.9–.30 43.94N 147.17E 83–5 3.6,4.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=5.9km az=139.5.
MOS Error ellipse: s-maj=23.2km s-min=15.1km az=62.5.
IDC Error ellipse: s-maj=67.4km s-min=25.8km az=151.0.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
KRSC V 08 17 20 11.3–3.0 50.61N 157.83E 80–27 3.9L
¶16500477
KRSC Event type se.
ISC V 08 23 11 11.1–2.3 49.1N–.20 155.2E–.20 10 24 2-17
KRSC V 08 23 11 06.3–1.5 48.75N 156.47E 6–5 4.2L **¶16500480**
MOS V 08 23 11 06.2–2.9 48.75N 156.47E 6 4.2b
SKHL V 08 23 11 08.1–3.4 48.90N 155.40E 10–5 4.2b
ISCJB V 08 23 11 10.8–1.9 49.3N–.20 155.1E–.20 10 4.2b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC V 09 05 37 42.0–1.7 49.4N–.10 156.9E–.10 100 3.2b 13 1-74
KRSC V 09 05 37 41.9–1.5 49.43N 156.91E 98–37 3.5L **¶16502616**
IDC V 09 05 37 53.3–9.1 50.54N 157.47E 157–54 3.4,3.2
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=127.6km s-min=30.5km az=0.0.
KRSC V 09 06 51 41.7–.78 50.00N 156.36E 76–28 3.8L
¶16502617
KRSC Event type se.
ISC V 10 04 06 45.0–2.4 43.65N–.08 147.43E–.09 6–12 26 0-8
JMA V 10 04 06 48.8–.20 43.66N 147.25E 32 3.5 **¶600610965**
SKHL V 10 04 06 49.4–.10 43.80N 147.40E 36–4 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC V 10 21 15 08.1–1.0 43.33N–.10 147.85E–.08 42 3.9b 31 1-72
SKHL V 10 21 15 05.8–.20 43.40N 148.10E 38–5 4.4b **¶16560964**
ISCJB V 10 21 15 06.2–.86 43.27N–.09 147.86E–.07 42 3.9b
IDC V 10 21 15 06.9–5.5 44.05N 147.57E 0 4.0,3.9
JMA V 10 21 15 06.2–.40 43.24N 147.75E 25 3.4,3.9
MOS V 10 21 15 10.0–1.7 44.14N 147.75E 32 4.1b,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.1km az=169.4.
IDC Error ellipse: s-maj=133.5km s-min=25.1km az=161.0.
JMA Error ellipse: s-maj=4.4km s-min=2.4km az=-1.0.
MOS Error ellipse: s-maj=18.5km s-min=15.6km az=150.6.
ISC V 11 01 59 42.2–2.5 43.5N–.10 147.8E–.10 42–19 3.9b 32 1-72
MOS V 11 01 59 41.9–2.0 43.59N 147.85E 59 4.2b **¶16560025**
ISCJB V 11 01 59 42.7–1.4 43.6N–.10 147.7E–.10 60–9 3.8b
JMA V 11 01 59 42.4–.30 43.48N 147.56E 15 3.8
SKHL V 11 01 59 43.4–.30 43.60N 147.60E 68–4 4.7b
IDC V 11 01 59 50.8–5.2 43.79N 147.53E 109–33 3.8,3.5
ISC Event type ke.
MOS Error ellipse: s-maj=22.2km s-min=14.0km az=118.8.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=7.8km az=140.6.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=117.0km s-min=25.2km az=166.0.
ISC V 11 02 45 24.3–3.8 43.67N–.09 147.08E–.08 36–3 18 0-4
ISCJB V 11 02 45 23.7–1.3 43.70N–.09 147.0E–.10 54–9 **¶600611578**
JMA V 11 02 45 24.4–.30 43.64N 147.00E 37 3.4
SKHL V 11 02 45 25.1–.40 43.70N 147.00E 47–1 4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=6.9km az=139.2.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC V 11 07 23 33.5–2.1 43.2N–.10 146.65E–.08 63–16 21 1-5
ISCJB V 11 07 23 33.2–1.1 43.27N–.08 146.61E–.08 69–10 **¶600611667**
JMA V 11 07 23 34.0–.20 43.24N 146.55E 71–2 3.1
SKHL V 11 07 23 34.4–.60 43.26N 146.63E 65–1 4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=6.6km az=146.5.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC V 12 11 59 38.6–.63 49.78N–.08 155.01E–.07 119 4.0b 81 1-75
KRSC V 12 11 59 36.9–1.9 49.23N 157.09E 41–26 4.5L **¶16507985**
ISCJB V 12 11 59 38.1–.40 49.85N–.06 154.81E–.08 119 3.9b
MOS V 12 11 59 39.4–.98 49.91N 154.82E 141 3.9b
IDC V 12 11 59 40.7–2.2 49.80N 154.87E 141–21 3.9,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=3.0km az=139.2.
MOS Error ellipse: s-maj=11.7km s-min=5.8km az=66.1.
IDC Error ellipse: s-maj=21.6km s-min=10.9km az=149.0.
KRSC V 12 12 30 36.7–1.7 49.29N 156.90E 50–25 4.3L
MOS V 12 12 30 33.1–1.9 49.31N 155.17E 47 4.4b **¶16507986**
KRSC Event type se.
MOS Error ellipse: s-maj=33.2km s-min=7.8km az=71.5.
ISC V 14 22 30 29.8–.35 43.04N–.03 146.22E–.03 42–2 5.2b,4.5s 1262 0-153
NIED V 14 22 30 00 42.80N 146.40E 32 4.9W,4.5s **¶16512080**
IDC V 14 22 30 22.7–.44 42.91N 146.24E 0 5.1,4.9
JMA V 14 22 30 27.4–.10 42.85N 146.31E 48–2 5.0,4.9
SKHL V 14 22 30 27.5–.40 42.80N 146.32E 54–5 5.8b,5.3s
BJI V 14 22 30 28.2 43.05N 146.25E 51 4.9b,4.9b
GCMT V 14 22 30 29.7–.50 42.95N 146.37E 37–1 5.1W,4.9b
NEIC V 14 22 30 29.7–.43 43.14N 146.13E 37–4 5.2b,4.9b
ISCJB V 14 22 30 29.6–.32 43.04N–.02 146.20E–.02 54–2 5.2b,4.5s
MOS V 14 22 30 29.4–.87 43.09N 146.14E 53 5.5b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ45.00000°,λ24.00000°. NP2:ϕ_s58.00000°,δ73.00000°,λ132.00000°. $M_0$2.97000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.1km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s62,c89; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.21±.57 $M_{\theta\theta}$0.14±.32; $M_{\phi\phi}$-4.35±.33; $M_{r\theta}$3.12±.32; $M_{\theta\phi}$-1.85±.17; $M_{\phi r}$1.76±.28; Best double couple: NP1:ϕ_s43.00000°,δ65.00000°,λ114.00000°. NP2:ϕ_s177.00000°,δ34.00000°,λ50.00000°. Principal axes: T 5.9460,Plg63.0000°,Azm351.0000°; N -0.1360,Plg21.0000°,Azm212.0000°; P -5.8140,Plg16.0000°,Azm116.0000° $M_0$5.88000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=153.0. Recorded [3 JMA] in eastern Hokkaido.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=166.4.
MOS Error ellipse: s-maj=6.7km s-min=5.2km az=104.8.
ISC V 15 06 23 26.4–3.0 44.0N–.10 147.7E–.20 63 12 1-3
JMA V 15 06 23 29.7–.30 43.77N 147.51E 55 2.7 **¶600614746**
SKHL V 15 06 23 30.2–.10 44.12N 147.48E 30 4.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC V 15 19 34 10.5–.80 43.23N–.05 146.90E–.05 45–6 4.3b 159 1-83
SKHL V 15 19 34 09.9–.90 43.17N 146.99E 56–5 5.0b **¶16524507**
MOS V 15 19 34 09.7–1.4 43.29N 146.79E 50 4.6b
JMA V 15 19 34 10.5–.20 43.16N 146.87E 48–3 4.3
ISCJB V 15 19 34 10.4–.59 43.20N–.03 146.86E–.05 58–4 4.6s,4.3b
NEIC V 15 19 34 11.8–.93 43.24N 146.85E 52–9 4.6b,4.3b
IDC V 15 19 34 11.9–2.8 43.27N 146.77E 53–25 4.6,4.6s
ISC Event type se.
MOS Error ellipse: s-maj=9.5km s-min=5.8km az=105.9.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.8km az=44.5.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.7km az=148.0.
IDC Error ellipse: s-maj=15.1km s-min=12.9km az=135.0.
ISC V 16 08 06 28.9–6.6 43.2N–.10 146.9E–.20 38–10 12 1-5
JMA V 16 08 06 28.2–.30 43.19N 146.90E 61–4 2.3 **¶600615550**
SKHL V 16 08 06 29.0–.20 43.17N 146.88E 45 4.0b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
KRSC V 16 17 24 08.1–1.7 50.30N 156.96E 43–20 3.5L
¶16523237
KRSC Event type se.
KRSC V 17 21 53 50.6–2.0 50.72N 157.49E 112–28 3.9L
¶16525819
KRSC Event type se.
ISC V 18 13 10 51.3–.94 48.29N–.09 154.9E–.10 43 3.4b 59 3-74
MOS V 18 13 10 47.3–1.2 48.11N 155.03E 17 4.2b **¶16528312**
ISCJB V 18 13 10 50.6–.60 48.32N–.07 154.7E–.10 43 3.4b
SKHL V 18 13 10 53.5–.50 48.39N 154.75E 85–5 5.3s,4.6b
KRSC V 18 13 10 54.0–1.8 48.50N 156.46E 6–41 4.0L,4.6b
IDC V 18 13 10 55.1–3.2 48.49N 154.47E 75–29 3.5,3.4
ISC Event type se.
MOS Error ellipse: s-maj=20.6km s-min=7.2km az=68.9.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=3.4km az=43.9.
KRSC Event type se.
IDC Error ellipse: s-maj=29.7km s-min=20.5km az=130.0.
ISC V 18 18 03 23.8–.70 45.03N–.08 150.67E–.07 39 4.0b 76 2-80
SKHL V 18 18 03 21.0–.80 44.90N 150.92E 49–5 4.9b **¶16560099**
ISCJB V 18 18 03 22.1–.47 45.08N–.05 150.67E–.05 39 3.9b
JMA V 18 18 03 22.1–.60 45.35N 150.67E 30 4.5
MOS V 18 18 03 24.1–1.2 45.24N 150.44E 53 4.3b
IDC V 18 18 03 26.7–3.1 45.24N 150.39E 58–27 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=143.7.
JMA Error ellipse: s-maj=6.7km s-min=6.3km az=-1.0.
MOS Error ellipse: s-maj=15.4km s-min=12.1km az=62.8.
IDC Error ellipse: s-maj=20.4km s-min=16.5km az=137.0.
ISC V 19 06 35 25.2–.63 46.68N–.05 152.83E–.04 42–5 4.7b,3.9s 279 4-131
NIED V 19 06 35 00 47.00N 152.90E 5 4.9W,3.9s **¶16529259**
JMA V 19 06 35 23.1–.80 46.99N 152.88E 30 5.3,3.9s
ISCJB V 19 06 35 23.5–.48 46.70N–.03 152.83E–.04 40–4 4.7b,3.8s
MOS V 19 06 35 24.7–1.1 46.74N 152.77E 53 4.9b,3.8s

SKHL V 19 06 35 25.0–.80 46.63N 153.00E 60–5 5.5b,5.1s
NEIC V 19 06 35 26.1–.57 46.73N 152.70E 50–5 4.8b,5.1s
IDC V 19 06 35 28.9–2.5 46.85N 152.69E 72–22 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ4.00000°,λ136.00000°. NP2:ϕ_s327.00000°,δ87.00000°,λ87.00000°. $M_0$2.67000×10^{16}
JMA Error ellipse: s-maj=7.8km s-min=7.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=2.8km az=142.7.
MOS Error ellipse: s-maj=7.9km s-min=5.9km az=59.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=3.0km az=140.0.
IDC Error ellipse: s-maj=19.1km s-min=10.4km az=139.0.
ISC V 19 08 55 02.6–.71 44.38N–.05 149.29E–.04 34–2 4.7b,4.3s 677 1-152
NIED V 19 08 55 00 44.50N 149.10E 38 5.0W,4.3s **¶16529262**
ISCJB V 19 08 55 00.2–.41 44.30N–.03 149.31E–.03 35–3 4.6b,4.3s
MOS V 19 08 55 01.4–1.2 44.40N 149.19E 40 4.8b,4.3s
SKHL V 19 08 55 02.1–.80 44.33N 149.31E 48–5 5.5b,5.1s
JMA V 19 08 55 02.4–.60 44.52N 149.12E 30 4.9,5.1s
IDC V 19 08 55 03.2–2.3 44.39N 149.20E 46–21 4.4,4.3
NEIC V 19 08 55 03.7–.53 44.37N 149.13E 47–4 4.7b,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ36.00000°,λ-5.00000°. NP2:ϕ_s252.00000°,δ87.00000°,λ-126.00000°. $M_0$3.30000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=155.7.
MOS Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=96.7. Felt (II-III) at Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (II-III) at Kurilsk.
JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=11.0km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.1km az=154.0. Felt [III] at Kuril'sk.
ISC V 19 22 54 28.4–3.4 44.31N–.09 148.5E–.20 35 19 1-6
JMA V 19 22 54 30.0–.40 44.02N 148.05E 0 4.1 **¶600618549**
SKHL V 19 22 54 30.7–.30 44.35N 148.25E 33–5 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
ISC V 20 18 46 23.8–.40 46.50N–.04 152.32E–.03 60–3 5.0b 1184 3-154
NIED V 20 18 46 00 46.40N 152.80E 59 5.1W **¶16531571**
JMA V 20 18 46 19.8–.70 46.42N 152.75E 30 5.3
ISCJB V 20 18 46 21.0–.34 46.49N–.02 152.38E–.02 49–3 5.0b,4.1s
BJI V 20 18 46 21.6 46.56N 152.40E 61 4.9b,4.8b
SKHL V 20 18 46 22.7–.80 46.35N 152.59E 70–5 5.7,5.3s
MOS V 20 18 46 24.1–1.2 46.56N 152.21E 78 5.2b,5.3s
NEIC V 20 18 46 24.4–.45 46.57N 152.23E 64–4 5.0b,5.3s
GCMT V 20 18 46 24.4–.30 46.48N 152.46E 53–2 5.0W,5.3s
IDC V 20 18 46 24.3–.54 46.53N 152.21E 63–5 4.7,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s84.00000°,δ37.00000°,λ112.00000°. NP2:ϕ_s237.00000°,δ56.00000°,λ74.00000°. $M_0$4.22000×10^{16}
JMA Error ellipse: s-maj=6.7km s-min=6.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=1.9km az=155.4.
MOS Error ellipse: s-maj=6.1km s-min=5.2km az=105.5.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.0km az=158.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c38; s92,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.88±.19 $M_{\theta\theta}$-3.10±.16; $M_{\phi\phi}$1.22±.17; $M_{r\theta}$-0.21±.09; $M_{\theta\phi}$-1.36±.09; $M_{\phi r}$-2.35±.09; Best double couple: NP1:ϕ_s219.00000°,δ67.00000°,λ45.00000°. NP2:ϕ_s108.00000°,δ50.00000°,λ149.00000°. Principal axes: T 4.0020,Plg47.0000°,Azm81.0000°; N -0.3520,Plg41.0000°,Azm240.0000°; P -3.6500,Plg10.0000°,Azm339.0000° $M_0$3.82600×10^{16}
IDC Error ellipse: s-maj=9.7km s-min=8.7km az=144.0.
ISC V 21 04 20 43.9–3.5 44.1N–.10 148.6E–.20 47 20 1-8
SKHL V 21 04 20 47.3–.30 44.28N 148.53E 40–5 4.2b **¶600619636**
JMA V 21 04 20 48.6–.60 44.23N 148.04E 113 3.0
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0.
KRSC V 22 02 18 31.5–1.6 49.58N 156.62E 6–5 3.7L
¶16533364
KRSC Event type se.
ISC V 22 07 39 38.3–2.4 48.6N–.20 155.9E–.10 35 53 2-15
KRSC V 22 07 39 35.3–2.1 48.62N 156.70E 16–10 4.2L **¶16533366**
MOS V 22 07 39 35.3–2.3 48.62N 156.69E 16 4.3b
SKHL V 22 07 39 36.4–1.4 48.63N 155.67E 18–3 4.2b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=71.6km s-min=7.1km az=82.2.
ISC V 22 09 45 43.0–1.0 46.5N–.10 153.0E–.10 40 3.8b 61 4-79
MOS V 22 09 45 43.5–2.6 46.74N 152.86E 55 4.1b **¶16533371**
JMA V 22 09 45 43.4–.50 46.64N 152.97E 30 4.1
SKHL V 22 09 45 46.1–1.0 46.72N 152.63E 79–4 4.6b
KRSC V 22 09 45 48.8–1.3 46.71N 155.37E 6–5 4.4L
IDC V 22 09 45 48.5–3.1 46.77N 152.73E 79–26 3.7,3.5
ISC Event type se.
MOS Error ellipse: s-maj=20.7km s-min=8.1km az=66.7.
JMA Error ellipse: s-maj=7.8km s-min=6.1km az=-1.0.
KRSC Event type se.
IDC Error ellipse: s-maj=33.7km s-min=17.8km az=104.0.
ISC V 22 12 43 02.5–3.9 49.3N–.20 156.77E–.09 53 43 1-8
KRSC V 22 12 43 01.8–1.8 49.48N 156.60E 100–35 4.0L **¶16533374**
MOS V 22 12 43 01.8–1.4 49.48N 156.60E 100 4.2b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=51.5km s-min=6.8km az=78.6.
ISC V 23 05 23 13.4–.65 46.27N–.08 152.80E–.08 40 4.2b 79 4-148
ISCJB V 23 05 23 11.6–.47 46.31N–.06 152.70E–.07 40 4.1b,3.7s **¶16560132**
MOS V 23 05 23 11.7–1.2 46.20N 152.85E 45 4.5b,3.7s
IDC V 23 05 23 12.4–7.0 46.23N 152.84E 33–52 4.0,4.0
SKHL V 23 05 23 13.0–.30 46.30N 152.64E 60–5 5.4b,4.7s
NEIC V 23 05 23 14.0–1.2 46.21N 152.84E 48–11 4.4b,4.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=4.3km az=140.3.
MOS Error ellipse: s-maj=11.6km s-min=9.8km az=67.3.
IDC Error ellipse: s-maj=24.9km s-min=18.4km az=126.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.4km az=129.0.
ISC V 23 12 47 34.1–3.8 50.5N–.10 157.81E–.08 3–22 54 1-5
KRSC V 23 12 47 34.4–2.8 50.24N 157.85E 41–27 4.0L **¶16536848**
MOS V 23 12 47 34.4–2.3 50.24N 157.85E 40 4.2b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=31.3km s-min=6.3km az=86.3.
ISC V 23 22 52 12.5–.95 46.4N–.10 150.9E–.10 200 3.4b 35 2-79
MOS V 23 22 52 09.7–1.5 45.13N 152.16E 93 4.3b **¶17204335**
SKHL V 23 22 52 11.1–1.0 46.39N 151.04E 175–4 5.5s,4.6b
ISCJB V 23 22 52 12.7–.69 46.59N–.08 150.8E–.10 200 3.2b,4.6b
IDC V 23 22 52 14.5–3.8 46.84N 150.71E 192–38 3.7,3.3
ISC Event type ke.
MOS Error ellipse: s-maj=22.6km s-min=18.0km az=174.5.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.8km az=43.1.
IDC Error ellipse: s-maj=29.9km s-min=25.6km az=118.0.
ISC V 24 11 51 08.4–1.9 44.2N–.20 147.1E–.10 127–14 13 0-9
ISCJB V 24 11 51 08.1–1.1 44.2N–.10 147.1E–.20 125–8 **¶602919069**
SKHL V 24 11 51 09.9–.50 44.27N 147.05E 118 5.1s,4.4b
JMA V 24 11 51 10.1–.50 43.93N 147.07E 124 3.3,4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.5km s-min=8.1km az=135.5.
JMA Error ellipse: s-maj=5.6km s-min=4.8km az=-1.0.
ISC V 26 03 23 15.3–2.5 43.3N–.10 146.97E–.09 26–14 18 1-8
ISCJB V 26 03 23 16.8–1.5 43.34N–.09 146.88E–.10 44–21 **¶600623338**
JMA V 26 03 23 17.2–.20 43.24N 146.81E 50–3 3.0
SKHL V 26 03 23 19.4–.70 43.47N 146.97E 38–2 4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=6.3km az=143.9.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.

KRSC V 26 13 15 35.8–1.6 50.72N 157.82E 48–24 3.6L
¶16549365
KRSC Event type se.
ISC V 26 16 44 54.9–.85 46.9N–.20 150.6E–.20 167 3.2b 14 3-79
SKHL V 26 16 44 58.4–.90 46.46N 150.94E 141–9 5.1s,4.6b **¶17204516**
IDC V 26 16 44 58.9–3.2 46.91N 150.28E 212–34 3.4,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=51.0km s-min=13.5km az=133.0.
ISC V 26 20 23 15.5–.73 46.13N–.09 152.05E–.08 100 3.6b 78 3-79
NIED V 26 20 23 00 46.40N 151.90E 56 3.8W **¶16560151**
JMA V 26 20 23 13.8–.70 46.41N 151.88E 30 4.2
MOS V 26 20 23 13.6–1.3 46.32N 152.06E 80 4.1b
SKHL V 26 20 23 14.8–.40 46.28N 152.00E 89–5 5.7s,4.9b
ISCJB V 26 20 23 15.3–.57 46.12N–.07 151.95E–.08 100 3.8b,4.9b
IDC V 26 20 23 17.2–2.7 46.52N 151.93E 92–22 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ17.00000°,λ-18.00000°. NP2:ϕ_s30.00000°,δ85.00000°,λ-106.00000°. $M_0$6.50000×10^{14}
JMA Error ellipse: s-maj=10.0km s-min=9.2km az=-1.0.
MOS Error ellipse: s-maj=13.1km s-min=9.5km az=50.7.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=4.7km az=143.7.
IDC Error ellipse: s-maj=33.2km s-min=16.0km az=151.0.
ISC V 27 07 04 58.2–.62 48.56N–.06 155.36E–.07 43 4.0b,3.4s 121 2-75
KRSC V 27 07 04 54.0–2.5 48.53N 155.68E 31–38 4.7L,3.4s **¶16631589**
ISCJB V 27 07 04 57.4–.44 48.66N–.04 155.26E–.07 43 4.0b,3.3s
SKHL V 27 07 04 57.3–.30 48.55N 155.46E 58–4 4.8b,3.3s
MOS V 27 07 04 57.8–1.3 48.78N 155.00E 48 4.1b,3.3s
IDC V 27 07 05 00.3–3.6 48.70N 155.10E 52–33 4.0,4.0
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=2.9km az=43.6.
MOS Error ellipse: s-maj=11.9km s-min=4.8km az=67.5.
IDC Error ellipse: s-maj=24.8km s-min=12.3km az=146.0.
KRSC V 27 20 20 56.4–.54 50.22N 156.99E 30–8 3.5L
¶16631592
KRSC Event type se.
ISC V 28 13 44 02.0–1.8 48.8N–.20 155.0E–.20 10 3.9b 34 2-137
IDC V 28 13 44 06.1–3.1 49.47N 153.58E 0 3.7,3.6b **¶16551337**
KRSC V 28 13 44 13.3–1.5 49.12N 156.85E 44–25 4.2L,3.6b
MOS V 28 13 44 13.3–2.4 49.12N 156.85E 44 4.3b,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=78.3km s-min=35.6km az=140.0.
KRSC Event type se.
MOS Error ellipse: s-maj=60.1km s-min=7.1km az=82.7.
KRSC V 29 04 35 35.0–1.9 50.61N 157.70E 41–16 4.1L
MOS V 29 04 35 35.0–2.4 50.61N 157.70E 41 4.2b **¶16551447**
KRSC Event type se.
MOS Error ellipse: s-maj=28.3km s-min=5.8km az=83.0.
KRSC V 29 04 45 06.2–1.3 49.94N 156.91E 16–19 3.6L
¶16551451
KRSC Event type se.
KRSC V 29 09 31 30.7–1.2 49.38N 156.73E 18–18 3.7L
¶16551479
KRSC Event type se.
KRSC V 31 22 44 42.3–1.9 49.07N 154.96E 144–23 3.9L
¶16552792
KRSC Event type se.
ISC VI 01 03 28 25.5–.85 47.95N–.09 154.84E–.10 33 3.6b 71 3-115
MOS VI 01 03 28 23.2–1.6 47.86N 155.13E 30 4.2b **¶17204858**
ISCJB VI 01 03 28 24.5–.61 48.02N–.07 154.8E–.10 33 3.7b
KRSC VI 01 03 28 29.4–1.7 48.23N 156.83E 31–28 4.3L
SKHL VI 01 03 28 29.6–.20 48.17N 154.32E 73–7 4.6b
IDC VI 01 03 28 29.2–3.5 48.12N 154.42E 67–31 3.6,3.6
ISC Event type se.
MOS Error ellipse: s-maj=12.4km s-min=5.5km az=69.1.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=3.7km az=41.8.
KRSC Event type se.
IDC Error ellipse: s-maj=42.6km s-min=17.6km az=156.0.
ISC VI 03 09 43 43.8–1.1 46.5N–.10 153.3E–.10 24 3.8b 17 4-78
MOS VI 03 09 43 46.9–2.1 46.69N 152.98E 38 4.2b **¶16722599**
IDC VI 03 09 43 48.3–3.4 46.87N 153.13E 58–29 3.7,3.5
ISC Event type ke.
MOS Error ellipse: s-maj=20.0km s-min=11.2km az=56.5.
IDC Error ellipse: s-maj=30.9km s-min=23.6km az=120.0.
ISC VI 03 17 59 45.0–.38 45.25N–.04 149.91E–.04 91–3 4.7b 602 1-151
NIED VI 03 17 59 00 44.70N 149.80E 74 4.4W **¶16556887**
BJI VI 03 17 59 41.3 45.40N 150.25E 89 4.9b,4.8b
MOS VI 03 17 59 44.9–1.1 45.29N 149.82E 100 4.8b,4.8b
ISCJB VI 03 17 59 44.2–.36 45.24N–.02 149.83E–.03 95–3 4.6b,4.8b
NEIC VI 03 17 59 45.7–.35 45.33N 149.75E 93–3 4.7b,4.8b
IDC VI 03 17 59 46.0–.54 45.39N 149.78E 92–4 4.6,4.4
SKHL VI 03 17 59 45.2–.70 45.16N 150.00E 99–4 5.4b,5.2s
JMA VI 03 17 59 47.6–.60 44.66N 149.82E 121 4.2,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ36.00000°,λ-127.00000°. NP2:ϕ_s269.00000°,δ62.00000°,λ-66.00000°. $M_0$4.85000×10^{15}
MOS Error ellipse: s-maj=5.9km s-min=4.4km az=102.8.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=150.9.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=2.6km az=154.0.
IDC Error ellipse: s-maj=10.6km s-min=8.8km az=138.0.
JMA Error ellipse: s-maj=5.6km s-min=5.5km az=-1.0.
ISC VI 04 10 40 01.4–.68 46.63N–.09 153.13E–.08 40 3.8b,3.2s 53 4-78
ISCJB VI 04 10 39 60.0–.56 46.71N–.06 153.10E–.09 40 3.9b,3.1s **¶16722602**
SKHL VI 04 10 40 00.8–1.0 46.52N 153.21E 60–5 4.7b,3.1s
MOS VI 04 10 40 03.5–1.2 46.82N 152.86E 73 4.1b,3.1s
IDC VI 04 10 40 06.3–2.3 46.84N 152.78E 81–20 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=4.2km az=137.3.
MOS Error ellipse: s-maj=13.1km s-min=8.6km az=67.6.
IDC Error ellipse: s-maj=18.7km s-min=11.7km az=136.0.
KRSC VI 04 11 50 31.3–2.6 49.34N 155.96E 224–13 3.8L
¶603071541
KRSC Event type se.
KRSC VI 04 19 26 28.8–.96 50.13N 157.45E 25–8 3.6L
¶603071542
KRSC Event type se.
ISC VI 05 08 17 03.4–.81 46.5N–.10 153.04E–.10 35 3.5b 55 4-78
ISCJB VI 05 08 17 02.6–.63 46.48N–.08 153.0E–.10 35 3.5b **¶16722611**
JMA VI 05 08 17 03.0–.60 46.92N 152.87E 30 4.1
SKHL VI 05 08 17 06.3–1.2 46.55N 152.90E 83–8 5.5s,4.8b
MOS VI 05 08 17 06.4–1.1 46.71N 152.75E 51 4.0b,4.8b
IDC VI 05 08 17 08.5–3.0 46.86N 152.65E 77–26 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=4.3km az=139.8.
JMA Error ellipse: s-maj=8.9km s-min=8.4km az=-1.0.
MOS Error ellipse: s-maj=16.4km s-min=9.3km az=58.7.
IDC Error ellipse: s-maj=25.6km s-min=17.1km az=131.0.
KRSC VI 05 14 52 18.3–2.0 49.15N 156.57E 30–14 4.0L
¶603071544
KRSC Event type se.
ISC VI 05 18 40 21.9–.95 48.6N–.10 155.4E–.10 36 3.3b 47 2-75
IDC VI 05 18 40 16.7–1.2 48.63N 155.03E 0 3.7,3.4 **¶16558272**
MOS VI 05 18 40 18.6–1.1 48.41N 155.51E 22 4.2b,3.4
SKHL VI 05 18 40 19.5–.70 48.42N 155.71E 55–3 4.1b,3.4
ISCJB VI 05 18 40 20.9–.65 48.73N–.08 155.1E–.20 36 3.3b,3.4
KRSC VI 05 18 40 23.8–3.2 48.80N 156.86E 6–5 4.2L,3.4
ISC Event type se.
IDC Error ellipse: s-maj=37.2km s-min=25.1km az=136.0.
MOS Error ellipse: s-maj=25.5km s-min=6.1km az=71.9.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=3.4km az=37.0.
KRSC Event type se.

JMA VI 05 23 35 50.2–.20 44.04N 148.12E 0 3.9
¶600632530
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC VI 06 17 15 13.3–.53 46.82N–.06 153.59E–.06 31 4.2b,3.5s 184 4-79
NIED VI 06 17 15 00 46.80N 153.90E 11 4.3W,3.5s **¶16580599**
ISCJB VI 06 17 15 11.9–.31 46.85N–.04 153.52E–.04 31 4.2b,3.4s
JMA VI 06 17 15 11.5–.90 46.78N 153.87E 30 5.0,3.4s
SKHL VI 06 17 15 13.9–.40 46.81N 153.73E 50–4 5.4s,4.6b
MOS VI 06 17 15 13.7–1.4 46.94N 153.45E 44 4.5b,4.6b
NEIC VI 06 17 15 17.1–.99 47.04N 153.40E 54–8 4.4b,4.6b
IDC VI 06 17 15 17.0–2.4 47.07N 153.34E 55–21 5.3L,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ41.00000°,λ5.00000°. NP2:ϕ_s106.00000°,δ87.00000°,λ131.00000°. M_o3.56000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=2.7km az=142.6.
JMA Error ellipse: s-maj=8.9km s-min=8.4km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=6.2km az=77.9.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=5.9km az=140.0.
IDC Error ellipse: s-maj=16.2km s-min=10.9km az=140.0.
ISC VI 06 17 57 58.4–2.6 43.6N–.10 147.6E–.10 45 14 1-5
SKHL VI 06 17 57 59.8–.40 43.74N 147.54E 33–3 3.9b **¶600633272**
JMA VI 06 17 58 00.1–.40 43.56N 147.35E 24 3.2
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
ISC VI 07 02 57 29.0–.63 45.39N–.06 148.82E–.07 130–5 3.5b 79 1-115
ISCJB VI 07 02 57 28.3–.64 45.37N–.05 148.77E–.09 138–6 3.6b **¶17205445**
SKHL VI 07 02 57 28.8–.50 45.27N 148.88E 143–7 5.5s,4.9b
MOS VI 07 02 57 28.4–1.2 45.43N 148.74E 138 4.2b,4.9b
IDC VI 07 02 57 29.3–.81 45.48N 148.83E 131–8 3.9,3.6
JMA VI 07 02 57 31.3–.60 45.04N 148.76E 137 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.0km az=21.6.
MOS Error ellipse: s-maj=14.9km s-min=11.3km az=69.0.
IDC Error ellipse: s-maj=27.0km s-min=10.9km az=153.0.
JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.
ISC VI 07 10 25 27.7–.69 48.28N–.08 154.47E–.09 51 3.8b 95 3-78
ISCJB VI 07 10 25 26.2–.50 48.26N–.06 154.55E–.10 51 3.8b **¶17205478**
SKHL VI 07 10 25 26.3–.50 48.09N 154.85E 59–3 4.7b
MOS VI 07 10 25 26.2–1.3 48.24N 154.48E 54 4.3b
KRSC VI 07 10 25 26.2–2.1 48.04N 156.49E 18–48 4.3L
IDC VI 07 10 25 28.5–3.5 48.25N 154.35E 58–32 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=3.0km az=42.1.
MOS Error ellipse: s-maj=11.7km s-min=4.9km az=66.9.
KRSC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=16.4km az=128.0.
ISC VI 07 10 38 30.0–.36 48.27N–.03 154.35E–.03 55–2 5.3b,4.6s 1673 3-154
NIED VI 07 10 38 00 48.20N 155.30E 44 5.1W,4.6s **¶16561020**
JMA VI 07 10 38 22.2–.80 48.24N 155.28E 30 5.8,4.6s
BJI VI 07 10 38 27.3 48.19N 154.57E 63 5.2b,4.9b
ISCJB VI 07 10 38 28.2–.29 48.27N–.02 154.33E–.02 51–2 5.3b,4.5s
KRSC VI 07 10 38 28.5–3.6 48.25N 154.65E 120–43 5.6L,4.5s
MOS VI 07 10 38 30.7–.95 48.43N 154.24E 74 5.4b,4.5s
SKHL VI 07 10 38 30.1–.60 48.20N 154.60E 75–3 5.8,5.8b
IDC VI 07 10 38 31.8–1.9 48.33N 154.23E 67–17 5.1,5.0
NEIC VI 07 10 38 32.7–.43 48.36N 154.20E 75–3 5.3b,5.0
GCMT VI 07 10 38 32.7–.10 48.28N 154.58E 46–0 5.3W,5.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ35.00000°,λ11.00000°. NP2:ϕ_s251.00000°,δ84.00000°,λ124.00000°. M_o4.72000×10^{16}
JMA Error ellipse: s-maj=10.0km s-min=8.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=1.5km az=152.7.
KRSC Event type se.
MOS Error ellipse: s-maj=7.0km s-min=3.2km az=73.6.
IDC Error ellipse: s-maj=10.8km s-min=7.9km az=140.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=1.7km az=155.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c152; s109,c178; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.90±.02 $M_{\theta\theta}$-0.23±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.09±.01; $M_{\theta\phi}$-0.47±.01; $M_{\phi r}$0.23±.01; Best double couple: NP1:ϕ_s29.00000°,δ52.00000°,λ86.00000°. NP2:ϕ_s216.00000°,δ38.00000°,λ95.00000°. Principal axes: T 0.9350,Plg82.0000°,Azm279.0000°; N 0.0630,Plg3.0000°,Azm32.0000°; P -0.9980,Plg7.0000°,Azm122.0000° M_o0.96700×10^{17}
KRSC VI 08 02 59 50.9–1.1 50.42N 157.83E 40–20 3.8L
¶603071551
KRSC Event type se.
ISC VI 08 21 07 47.2–1.0 48.1N–.10 154.8E–.10 43 3.5b 38 3-76
MOS VI 08 21 07 44.5–.59 47.95N 154.87E 30 4.0b **¶16580429**
ISCJB VI 08 21 07 46.0–.71 48.15N–.09 154.6E–.10 43 3.5b,2.9s
KRSC VI 08 21 07 47.6–1.5 48.24N 155.78E 15–28 3.9L,2.9s
IDC VI 08 21 07 50.6–3.0 48.25N 154.43E 77–27 3.7,3.5
ISC Event type se.
MOS Error ellipse: s-maj=24.1km s-min=6.5km az=71.1.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=5.2km az=41.6.
KRSC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=19.0km az=140.0.
KRSC VI 09 03 00 48.0–3.2 49.53N 156.74E 6–3 3.8L
¶603071553
KRSC Event type se.
ISC VI 09 07 12 02.1–.63 44.03N–.04 147.77E–.04 77–4 4.8b 881 1-153
NIED VI 09 07 12 00 43.80N 147.80E 83 4.7W **¶16580457**
ISCJB VI 09 07 12 01.9–.30 44.08N–.03 147.75E–.02 86–2 4.8b
MOS VI 09 07 12 01.6–.96 44.07N 147.75E 84 5.0b
BJI VI 09 07 12 01.9 44.09N 148.01E 102 4.8b,4.7b
IDC VI 09 07 12 02.7–2.0 44.07N 147.75E 80–17 4.8,4.6
JMA VI 09 07 12 02.4–.20 43.78N 147.85E 57 4.5,4.6
SKHL VI 09 07 12 02.7–.40 43.91N 147.76E 96–2 5.1s,5.1b
NEIC VI 09 07 12 04.2–.52 44.20N 147.71E 87–4 4.8b,5.1b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ20.00000°,λ22.00000°. NP2:ϕ_s62.00000°,δ83.00000°,λ109.00000°. M_o1.06000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=163.3.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.1km az=104.4. Felt (II) at Malokuril'skoye. Moment Tensor Solution.
IDC Error ellipse: s-maj=15.5km s-min=10.4km az=153.0.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
SKHL Event type fe. Felt (II) at Malokurilskoe (74 km).
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=2.6km az=171.0. Felt [II] at Shakotan.
ISC VI 09 09 29 10.7–.78 46.76N–.09 153.04E–.08 56 3.6b 50 4-78
ISCJB VI 09 09 29 08.9–.63 46.72N–.08 153.02E–.10 56 3.6b,3.0s **¶16720891**
SKHL VI 09 09 29 08.9–.90 46.64N 153.08E 53–2 4.5b,3.0s
MOS VI 09 09 29 09.1–1.6 46.61N 153.01E 62 4.1b,3.0s
IDC VI 09 09 29 18.2–3.0 46.86N 152.77E 121–24 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=5.0km az=142.9.
MOS Error ellipse: s-maj=12.5km s-min=8.1km az=71.1.
IDC Error ellipse: s-maj=24.9km s-min=14.6km az=154.0.
KRSC VI 10 09 01 00.2–1.1 50.47N 157.04E 17–20 3.8L
¶603071555
KRSC Event type se.
KRSC VI 11 00 52 48.8–1.7 50.81N 157.20E 173–28 3.7L
¶603071557
KRSC Event type se.
KRSC VI 11 02 48 01.1–1.0 49.94N 156.96E 20–12 3.8L
¶603071558
KRSC Event type se.
KRSC VI 11 13 13 17.5–1.3 49.92N 155.59E 108–5 3.7L
¶603071562
KRSC Event type se.
KRSC VI 11 20 43 11.2–3.0 50.44N 157.90E 67–24 3.7L
¶603071563
KRSC Event type se.
ISC VI 12 10 06 16.4–.82 46.6N–.10 153.45E–.09 24 3.9b 51 4-79
NIED VI 12 10 06 00 46.90N 153.50E 14 3.8W **¶16720905**
ISCJB VI 12 10 06 14.6–.64 46.59N–.08 153.42E–.09 24 3.9b,3.0s
SKHL VI 12 10 06 14.9–.80 46.37N 153.74E 43–9 4.5b,3.0s
MOS VI 12 10 06 17.3–1.7 46.70N 153.25E 43 4.3b,3.0s
IDC VI 12 10 06 18.5–4.1 46.57N 153.40E 40–36 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ75.00000°,λ-172.00000°. NP2:ϕ_s129.00000°,δ82.00000°,λ-15.00000°. M_o4.99000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.0km az=144.3.
MOS Error ellipse: s-maj=10.3km s-min=9.3km az=55.5.
IDC Error ellipse: s-maj=24.3km s-min=17.1km az=124.0.
KRSC VI 13 01 48 06.1–1.7 50.37N 157.08E 60–22 4.0L
¶603071564
KRSC Event type se.
ISC VI 13 22 13 53.7–3.5 44.2N–.10 148.2E–.20 9–13 19 1-6
JMA VI 13 22 13 57.5–.40 43.96N 147.85E 0 3.8 **¶600639741**
SKHL VI 13 22 13 58.6–.30 44.28N 148.16E 37–1 4.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
ISC VI 15 03 45 59.3–1.0 46.3N–.10 152.8E–.10 50 3.6b 22 6-78
IDC VI 15 03 46 05.7–2.8 46.80N 152.44E 102–25 3.6,3.3 **¶16730526**
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=17.1km az=143.0.
ISC VI 15 07 38 01.8–2.0 43.3N–.10 146.73E–.09 20–12 21 1-3
NIED VI 15 07 38 00 43.30N 146.70E 53 3.5W **¶600640866**
ISCJB VI 15 07 38 02.4–1.2 43.34N–.07 146.74E–.08 39–33 3.5W
JMA VI 15 07 38 02.3–.20 43.29N 146.73E 47–2 3.7
SKHL VI 15 07 38 02.3–.30 43.23N 146.81E 55–4 4.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ27.00000°,λ149.00000°. NP2:ϕ_s183.00000°,δ76.00000°,λ66.00000°. M_o2.32000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=6.8km az=143.6.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
KRSC VI 15 10 37 45.1–1.0 49.14N 156.72E 6–18 3.7L
¶603071565
KRSC Event type se.
ISC VI 15 11 32 42.4–1.4 43.41N–.07 147.01E–.06 42–12 4.0b 65 1-83
NIED VI 15 11 32 00 43.30N 147.00E 50 3.8W **¶16720924**
JMA VI 15 11 32 41.9–.30 43.35N 146.97E 38–3 3.9
SKHL VI 15 11 32 42.9–.00 43.34N 147.01E 62–5 5.1b
ISCJB VI 15 11 32 42.3–.87 43.44N–.06 146.98E–.07 57–7 4.0b
MOS VI 15 11 32 43.5–1.4 43.63N 146.76E 61 4.3b
IDC VI 15 11 32 45.5–4.4 43.60N 146.93E 62–28 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ52.00000°,λ16.00000°. NP2:ϕ_s72.00000°,δ78.00000°,λ141.00000°. M_o5.76000×10^{14}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
SKHL Event type fe. Felt (II) at Malokurilskoe(80 km).
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=138.1.
MOS Event type fe. Error ellipse: s-maj=11.3km s-min=8.1km az=103.0. Felt (II) at Malokuril'skoye. Moment Tensor Solution.
IDC Error ellipse: s-maj=60.6km s-min=22.5km az=168.0.
KRSC VI 17 06 07 55.9–1.6 50.52N 157.51E 40–22 3.5L
¶603071569
KRSC Event type se.
KRSC VI 17 07 25 53.9–1.6 50.18N 157.20E 25–10 3.9L
¶603071570
KRSC Event type se.
KRSC VI 17 10 11 11.2–2.0 50.44N 157.43E 40–27 3.8L
¶603071572
KRSC Event type se.
ISC VI 18 01 10 16.3–.59 49.59N–.07 156.48E–.06 81–4 4.0b 101 1-78
KRSC VI 18 01 10 14.9–2.8 49.59N 157.37E 49–25 4.9L **¶16632939**
ISCJB VI 18 01 10 15.3–.70 49.61N–.06 156.38E–.07 86–6 3.8b
MOS VI 18 01 10 15.3–1.0 49.63N 156.37E 87 4.0b
IDC VI 18 01 10 16.5–.61 49.56N 156.32E 78–5 3.9,3.8
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=4.7km az=141.4.
MOS Error ellipse: s-maj=10.7km s-min=4.9km az=74.2.
IDC Error ellipse: s-maj=15.0km s-min=9.6km az=132.0.
ISC VI 20 10 33 42.0–1.4 49.2N–.10 156.4E–.10 50 3.5b 44 1-74
MOS VI 20 10 33 35.4–.59 48.93N 156.54E 7 4.2b **¶16638799**
ISCJB VI 20 10 33 41.7–.84 49.27N–.07 156.3E–.20 50 3.5b
KRSC VI 20 10 33 43.2–3.0 49.52N 157.20E 7–29 4.2L
IDC VI 20 10 33 47.1–4.0 49.62N 155.67E 102–37 3.6,3.4
ISC Event type se.
MOS Error ellipse: s-maj=34.3km s-min=6.1km az=79.9.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=6.2km az=24.8.
KRSC Event type se.
IDC Error ellipse: s-maj=54.1km s-min=23.7km az=150.0.
KRSC VI 20 14 19 20.1–2.8 48.60N 153.97E 122–43 4.0L
¶603071575
KRSC Event type se.
ISC VI 20 19 37 06.1–.58 45.95N–.05 149.94E–.05 167–5 4.4b 299 2-151
BJI VI 20 19 37 02.4 46.25N 150.40E 164 4.7b,4.6b **¶16646047**
ISCJB VI 20 19 37 05.2–.40 45.99N–.03 149.95E–.05 168–3 4.4b,4.6b
MOS VI 20 19 37 05.9–1.1 46.10N 149.87E 173 4.5b,4.6b
IDC VI 20 19 37 07.8–1.8 46.21N 149.80E 173–16 4.4,4.1
SKHL VI 20 19 37 07.7–.40 45.91N 149.68E 169–9 5.1s,4.6b
NEIC VI 20 19 37 07.4–.81 46.10N 149.84E 173–7 4.5b,4.6b
JMA VI 20 19 37 09.3–.50 45.39N 149.91E 181 4.2,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.4km az=43.1.
MOS Error ellipse: s-maj=7.3km s-min=5.3km az=96.0.
IDC Error ellipse: s-maj=12.1km s-min=9.2km az=146.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=5.8km az=144.0.
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISC VI 22 08 57 32.4–3.4 44.5N–.10 148.62E–.09 10–19 3.6b 45 1-78
MOS VI 22 08 57 34.1–1.2 44.63N 148.63E 30 4.1b **¶600646966**
JMA VI 22 08 57 35.1–.30 44.23N 148.38E 0 4.2
SKHL VI 22 08 57 36.0–.60 44.59N 148.61E 54–4 4.3b
ISC Event type ke.
MOS Error ellipse: s-maj=16.2km s-min=14.9km az=65.8.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
KRSC VI 23 14 23 41.5–1.1 49.50N 156.77E 6–17 3.9L
¶603071581
KRSC Event type se.
ISC VI 23 20 36 11.8–.76 44.21N–.06 147.44E–.06 102–6 3.9b 63 1-82
NIED VI 23 20 36 00 44.10N 147.40E 62 3.5W **¶17206830**
MOS VI 23 20 36 11.7–1.3 44.32N 147.28E 117 4.1b
ISCJB VI 23 20 36 11.2–.56 44.22N–.06 147.42E–.08 112–4 3.7b
JMA VI 23 20 36 13.5–.30 44.10N 147.38E 98–5 3.8
SKHL VI 23 20 36 13.1–.30 44.32N 147.30E 113–5 5.0s,4.5b
IDC VI 23 20 36 16.0–2.7 44.38N 147.09E 135–23 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ75.00000°,λ-16.00000°. NP2:ϕ_s168.00000°,δ75.00000°,λ-164.00000°. M_o2.10000×10^{14}
MOS Error ellipse: s-maj=16.0km s-min=11.1km az=74.3.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.9km az=141.6.
JMA Error ellipse: s-maj=2.2km s-min=3.2km az=-1.0.
IDC Error ellipse: s-maj=23.4km s-min=16.4km az=139.0.
ISC VI 24 04 05 39.4–2.8 44.1N–.10 147.8E–.20 77–18 20 1-4
JMA VI 24 04 05 40.4–.30 43.99N 147.69E 74 3.8 **¶600648209**
SKHL VI 24 04 05 40.6–.40 44.18N 147.50E 98–1 3.8
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISC VI 24 22 30 39.2–1.9 50.62N–.06 157.48E–.05 3–12 3.6b 54 1-73
MOS VI 24 22 30 41.4–1.0 50.30N 157.50E 33 4.2b **¶16681181**

KRSC VI 24 22 30 43.4–2.2 50.61N 157.51E 48–25 4.1L
IDC VI 24 22 30 48.1–4.8 50.84N 156.73E 84–51 3.4,3.4
ISC Event type se.
MOS Error ellipse: s-maj=26.2km s-min=6.0km az=82.7.
KRSC Event type se.
IDC Error ellipse: s-maj=58.9km s-min=23.9km az=146.0.
KRSC VI 25 05 47 57.5–1.7 50.01N 157.08E 16–23 3.9L
¶603071584
KRSC Event type se.
ISC VI 25 07 37 46.3–1.1 48.14N–.06 154.54E–.06 61–10 4.2b 174 3-147
NIED VI 25 07 37 00 48.20N 154.90E 38 4.3W **¶16682689**
KRSC VI 25 07 37 41.7–2.3 48.02N 154.75E 66–24 4.8L
MOS VI 25 07 37 45.8–.97 48.23N 154.45E 71 4.5b
SKHL VI 25 07 37 45.8–.70 48.08N 154.74E 75–4 5.0b
ISCJB VI 25 07 37 45.1–.52 48.21N–.04 154.48E–.05 62–5 4.2b
IDC VI 25 07 37 47.6–2.6 48.28N 154.28E 67–22 4.1,4.0
NEIC VI 25 07 37 48.4–.79 48.26N 154.30E 75–7 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ8.00000°,λ-163.00000°. NP2:ϕ_s262.00000°,δ88.00000°,λ-82.00000°. $M_0$3.60000×10^{15}
KRSC Event type se.
MOS Error ellipse: s-maj=9.2km s-min=4.9km az=69.8.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=2.9km az=139.8.
IDC Error ellipse: s-maj=16.1km s-min=11.7km az=137.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=5.3km az=132.0.
ISC VI 25 13 08 45.7–.58 45.44N–.07 151.72E–.06 32 4.4b,3.8s 167 3-149
ISCJB VI 25 13 08 43.8–.44 45.42N–.06 151.66E–.06 32 4.4b,3.9s **¶16683776**
SKHL VI 25 13 08 45.2–.20 45.23N 151.76E 52–1 4.7b,4.2s
MOS VI 25 13 08 45.5–1.4 45.47N 151.54E 42 4.6b,4.2s
IDC VI 25 13 08 46.7–2.3 45.44N 151.67E 43–20 4.2,4.1
NEIC VI 25 13 08 47.0–.95 45.45N 151.66E 49–8 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.2km az=148.4.
MOS Error ellipse: s-maj=7.9km s-min=6.3km az=110.0.
IDC Error ellipse: s-maj=20.1km s-min=13.6km az=140.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=6.6km az=135.0.
NIED VI 25 16 11 00 45.90N 151.60E 26 3.8W
¶601626125
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ44.00000°,λ39.00000°. NP2:ϕ_s231.00000°,δ64.00000°,λ126.00000°. $M_0$5.13000×10^{14}
ISC VI 26 09 58 07.9–.81 44.25N–.05 149.21E–.07 51–7 4.0b 88 1-81
NIED VI 26 09 58 00 44.60N 149.30E 35 4.1W **¶16721001**
JMA VI 26 09 58 05.9–.40 44.60N 149.29E 30 4.5
SKHL VI 26 09 58 06.6–.40 44.29N 149.40E 61–5 4.6b
MOS VI 26 09 58 06.0–1.2 44.37N 149.27E 46 4.2b
ISCJB VI 26 09 58 07.4–.97 44.30N–.05 149.14E–.08 58–7 4.0b
IDC VI 26 09 58 08.8–.67 44.48N 149.14E 50–6 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ29.00000°,λ109.00000°. NP2:ϕ_s36.00000°,δ63.00000°,λ80.00000°. $M_0$1.63000×10^{15}
JMA Error ellipse: s-maj=4.4km s-min=3.2km az=-1.0.
MOS Error ellipse: s-maj=11.7km s-min=10.1km az=88.2.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.7km az=39.4.
IDC Error ellipse: s-maj=17.4km s-min=14.6km az=125.0.
IDC VI 26 23 21 09.8–2.9 45.97N 151.51E 0 4.0,3.8
¶17207029
IDC Error ellipse: s-maj=85.8km s-min=32.8km az=2.0.
KRSC VI 29 01 17 59.0–1.8 50.75N 157.67E 100–25 3.6L
¶603071591
KRSC Event type se.
ISC VI 29 08 19 12.4–3.5 44.0N–.10 148.2E–.20 70 12 1-5
JMA VI 29 08 19 14.0–.40 43.80N 147.85E 0 3.7 **¶600652293**
SKHL VI 29 08 19 14.3–.80 44.03N 148.09E 36–5 4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.4km az=-1.0.
ISC VI 29 19 25 02.6–1.1 47.3N–.10 151.3E–.20 200 3.1b 25 3-72
SKHL VI 29 19 25 00.9–.90 44.91N 152.94E 35–3 4.1b **¶17207214**
IDC VI 29 19 25 02.6–2.4 47.41N 151.33E 187–23 3.8,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=18.3km az=106.0.
ISC VI 30 03 21 23.7–2.8 43.52N–.10 147.5E–.10 34–3 22 1-4
SKHL VI 30 03 21 24.9–.40 43.54N 147.47E 50 4.5b **¶600476461**
JMA VI 30 03 21 25.1–.20 43.46N 147.30E 31 3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
KRSC VI 30 17 03 36.3–1.9 49.83N 156.78E 42–26 3.5L
¶603071594
KRSC Event type se.
KRSC VI 30 17 48 08.6–1.3 49.22N 156.79E 15–10 3.7L
¶603071595
KRSC Event type se.
ISC VI 30 18 34 30.3–1.3 47.9N–.20 153.9E–.20 117 3.7b 22 3-76
KRSC VI 30 18 34 26.5–2.4 47.90N 153.83E 196–30 4.3L **¶16702920**
MOS VI 30 18 34 27.1–1.3 47.36N 154.72E 185 4.2b
IDC VI 30 18 34 35.9–2.9 48.24N 153.26E 153–23 3.7,3.4b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=23.6km s-min=11.3km az=73.0.
IDC Error ellipse: s-maj=41.4km s-min=22.5km az=155.0.

(222) East of Kuril Islands.

KRSC I 01 11 24 07.4–1.8 49.03N 157.02E 6–5 3.8L
¶17189129
KRSC Event type se.
KRSC I 01 22 54 01.6–1.2 48.88N 156.74E 17–19 4.1L
MOS I 01 22 54 01.6–2.6 48.55N 156.74E 17 4.2b **¶16150218**
KRSC Event type se.
MOS Error ellipse: s-maj=99.9km s-min=17.1km az=84.6.
KRSC I 02 10 20 57.5–1.8 49.79N 157.05E 47–24 4.2L
MOS I 02 10 20 57.5–2.5 49.79N 157.05E 47 4.3b **¶16150263**
KRSC Event type se.
MOS Error ellipse: s-maj=41.1km s-min=7.2km az=82.1.
KRSC I 03 00 02 37.6–1.8 50.99N 158.35E 16–6 3.7L
¶17189269
KRSC Event type se.
KRSC I 03 21 27 45.6–2.4 49.60N 157.06E 15–42 4.1L
MOS I 03 21 27 45.6–2.5 49.60N 157.06E 15 4.2b **¶16150429**
KRSC Event type se.
MOS Error ellipse: s-maj=63.3km s-min=14.4km az=86.1.
ISC I 04 00 35 19.6–.56 46.76N–.07 156.34E–.06 10 4.5b,3.6s 196 4-116
IDC I 04 00 35 16.8–.49 46.52N 156.34E 0 4.3,4.2 **¶15908076**
KRSC I 04 00 35 18.5–2.2 46.72N 156.15E 101–43 5.1L,4.2
ISCJB I 04 00 35 18.6–.35 46.88N–.03 156.22E–.06 10 4.4b,3.5s
NEIC I 04 00 35 18.4–.28 46.53N 156.34E 10 4.7b,3.5s
BJI I 04 00 35 19.7 47.27N 156.06E 6 4.8b,4.7s
SKHL I 04 00 35 19.7–.40 46.82N 156.09E 29–1 4.9b,4.7s
MOS I 04 00 35 23.0–1.0 47.02N 156.21E 35 4.7b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=11.6km az=141.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.2km az=40.5.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.5km az=141.0.
MOS Error ellipse: s-maj=8.6km s-min=4.6km az=95.5.
ISC I 04 13 55 39.2–.68 47.07N–.07 155.56E–.07 18 3.7b 70 4-87
KRSC I 04 13 55 35.6–1.5 46.99N 155.68E 144–37 4.2L **¶16150500**
IDC I 04 13 55 36.4–.67 46.90N 155.67E 0 3.9,3.8
ISCJB I 04 13 55 37.2–.52 47.16N–.05 155.53E–.07 18 3.6b,3.6s
SKHL I 04 13 55 39.7–.50 47.09N 155.29E 41–6 4.2b,3.6s
MOS I 04 13 55 40.2–1.3 47.18N 155.45E 48 4.0b,3.6s
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=13.4km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.1km az=42.4.
MOS Error ellipse: s-maj=11.9km s-min=6.4km az=72.3.
KRSC I 04 14 27 27.8–1.8 48.90N 156.53E 7–36 4.3L
MOS I 04 14 27 27.8–3.0 48.90N 156.52E 7 4.4b **¶16150502**
KRSC Event type se.
MOS Error ellipse: s-maj=85.9km s-min=11.2km az=81.5.
ISC I 05 11 30 08.5–1.9 50.07N–.09 158.76E–.06 30 59 2-7
MOS I 05 11 30 08.9–2.2 50.18N 158.81E 84 4.3b **¶16150581**
KRSC I 05 11 30 08.9–2.0 50.19N 158.81E 84–38 4.2L
ISC Event type se.
MOS Error ellipse: s-maj=29.6km s-min=6.8km az=89.8.
KRSC Event type se.
ISC I 07 19 57 17.7–4.2 48.9N–.20 157.9E–.10 35 27 2-8
MOS I 07 19 57 17.0–3.2 49.10N 158.16E 40 4.3b **¶16150748**
KRSC I 07 19 57 17.0–1.9 49.10N 158.16E 40–56 4.2L
ISC Event type se.
MOS Error ellipse: s-maj=48.7km s-min=9.6km az=89.3.
KRSC Event type se.
ISC I 09 23 18 39.9–1.0 44.94N–.09 150.33E–.08 39 3.6b 42 2-80
IDC I 09 23 18 28.6–1.1 44.44N 149.66E 0 4.0,3.7 **¶16395361**
MOS I 09 23 18 37.9–1.5 44.72N 150.38E 78 4.0b,3.7
ISCJB I 09 23 18 38.9–.75 45.01N–.08 150.27E–.09 39 3.6b,3.7
JMA I 09 23 18 39.8–.60 45.30N 150.22E 30 4.3,3.7
SKHL I 09 23 18 41.0–.30 45.06N 150.22E 76–3 4.6b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=44.8km s-min=26.3km az=110.0.
MOS Error ellipse: s-maj=16.9km s-min=14.2km az=76.7.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=5.0km az=146.3.
JMA Error ellipse: s-maj=6.7km s-min=6.3km az=-1.0.
ISC I 12 21 41 11.4–.55 46.33N–.08 154.46E–.07 20 5.3s,4.8b 62 4-148
IDC I 12 21 41 08.1–.58 46.22N 154.56E 0 5.3,5.2s **¶16395640**
ISCJB I 12 21 41 09.3–.45 46.26N–.07 154.42E–.08 20 5.3s,4.7b
MOS I 12 21 41 11.7–1.3 46.25N 154.38E 42 4.8b,4.7b
SKHL I 12 21 41 13.3–.50 46.54N 154.16E 48–1 4.8b,4.7b
ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=13.1km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.3km az=146.1.
MOS Error ellipse: s-maj=13.0km s-min=8.7km az=66.3.
KRSC I 13 11 37 56.4–2.1 49.90N 157.01E 60–25 4.0L
¶17190051
KRSC Event type se.
ISC I 17 02 34 03.9–.91 46.9N–.10 156.2E–.20 18 3.8b 14 6-146
IDC I 17 02 34 00.8–.80 46.77N 156.14E 0 4.0,3.7 **¶17190365**
ISCJB I 17 02 34 01.5–.77 46.8N–.10 156.2E–.20 18 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 20 03 53 50.6–.89 44.69N–.09 151.56E–.08 36 3.8b 50 3-80
NIED I 20 03 53 00 45.40N 151.40E 11 4.0W **¶16019241**
JMA I 20 03 53 50.6–.50 45.36N 151.44E 30 4.4
ISCJB I 20 03 53 50.3–.70 44.84N–.09 151.45E–.08 36 3.8b
SKHL I 20 03 53 53.6–.60 44.83N 151.41E 73–8 4.8b
MOS I 20 03 53 54.0–2.8 44.80N 151.40E 55 4.2b
IDC I 20 03 53 54.4–.98 46.32N 150.87E 0 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ49.00000°,λ59.00000°. NP2:ϕ_s239.00000°,δ50.00000°,λ121.00000°. $M_0$1.06000×10^{15}
JMA Error ellipse: s-maj=6.7km s-min=5.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=4.8km az=152.4.
MOS Error ellipse: s-maj=12.3km s-min=11.4km az=158.2.
IDC Error ellipse: s-maj=25.4km s-min=16.7km az=139.0.
SKHL I 20 10 13 02.0–.50 44.20N 151.72E 38–2 4.3b
JMA I 20 10 12 55.6–.60 45.06N 152.07E 30 4.0 **¶600327054**
JMA Error ellipse: s-maj=10.0km s-min=7.1km az=-1.0.
ISC I 24 14 27 43.0–.64 50.68N–.05 158.28E–.05 60–5 4.1b 160 1-145
KRSC I 24 14 27 38.7–2.6 50.58N 158.49E 82–26 4.5L **¶15964363**
BJI I 24 14 27 40.7 50.54N 158.37E 64 5.0b,4.8b
ISCJB I 24 14 27 41.4–.69 50.64N–.04 158.29E–.07 59–5 4.2b,3.8s
MOS I 24 14 27 42.1–1.1 50.72N 158.06E 63 4.4b,3.8s
IDC I 24 14 27 43.9–.63 50.75N 158.19E 60–5 3.9,3.8
NEIC I 24 14 27 44.3–1.2 50.79N 157.98E 61–8 4.5b,3.8
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=4.5km az=43.1.
MOS Error ellipse: s-maj=10.3km s-min=4.2km az=83.3.
IDC Error ellipse: s-maj=15.2km s-min=12.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=9.0km az=126.0.
ISC I 27 03 52 09.2–3.9 51.00N–.06 160.47E–.05 8–25 3.9b 75 2-78
KRSC I 27 03 52 07.5–2.1 50.95N 160.60E 98–32 4.3L **¶17191077**
IDC I 27 03 52 08.2–.75 50.92N 160.41E 0 4.0,3.8
ISCJB I 27 03 52 09.6–1.5 50.93N–.03 160.39E–.06 23–11 3.8b,3.8
MOS I 27 03 52 11.6–.81 50.99N 160.30E 38 4.1b,3.8
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=16.4km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.3km az=165.9.
MOS Error ellipse: s-maj=13.0km s-min=6.5km az=102.7.
ISC I 28 09 44 10.0–1.3 45.6N–.10 153.4E–.10 50 3.8b 25 4-78
NIED I 28 09 44 00 46.40N 153.10E 35 4.0W **¶17191185**
ISCJB I 28 09 44 09.7–1.1 45.8N–.10 153.3E–.10 50 3.7b
MOS I 28 09 44 10.9–1.8 45.95N 153.15E 48 4.0b
SKHL I 28 09 44 10.7–.90 45.62N 153.34E 65–2 4.6b
IDC I 28 09 44 16.7–5.2 46.46N 152.85E 62–41 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ10.00000°,λ-45.00000°. NP2:ϕ_s74.00000°,δ83.00000°,λ-97.00000°. $M_0$1.10000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=6.3km az=144.2.
MOS Error ellipse: s-maj=15.5km s-min=12.5km az=55.6.
IDC Error ellipse: s-maj=55.8km s-min=21.6km az=163.0.
KRSC I 30 07 47 56.8–1.8 48.99N 156.57E 7–34 3.8L
¶17191302
KRSC Event type se.
KRSC I 30 18 41 49.7–1.8 49.77N 159.12E 93–35 4.0L
¶17191350
KRSC Event type se.
KRSC I 30 20 34 10.7–2.4 48.99N 156.75E 6–3 3.9L
¶17191364
KRSC Event type se.
KRSC I 30 21 44 38.0–1.6 48.67N 156.35E 6–6 4.1L
MOS I 30 21 44 37.9–2.6 48.67N 156.35E 6 4.2b **¶17191366**
KRSC Event type se.
MOS Error ellipse: s-maj=99.9km s-min=12.3km az=79.7.
IDC I 31 09 51 50.3–2.3 46.53N 155.41E 0 3.8,3.6
¶17191395
IDC Error ellipse: s-maj=64.0km s-min=31.4km az=2.0.
KRSC II 01 17 50 56.4–1.2 49.60N 159.01E 62–55 3.5L
¶17191497
KRSC Event type se.
ISC II 01 22 48 29.9–1.6 45.5N–.10 153.9E–.10 100 3.7b 47 4-73
SKHL II 01 22 48 33.0–.10 45.66N 153.43E 15–4 4.6b **¶17270072**
MOS II 01 22 48 35.1–1.7 45.69N 153.19E 43 4.1b
IDC II 01 22 48 52.2–4.0 48.25N 150.11E 109–47 3.6,3.4
ISC Event type ke.
MOS Error ellipse: s-maj=18.6km s-min=13.3km az=151.2.
IDC Error ellipse: s-maj=55.7km s-min=18.1km az=151.0.
KRSC II 02 21 52 08.6–1.9 49.34N 157.23E 38–34 4.0L
¶17191560
KRSC Event type se.
SKHL II 03 05 38 10.8–.60 44.81N 151.21E 40–5 4.4b
¶600774589
KRSC II 03 08 53 06.3–1.4 49.69N 157.07E 15–10 3.9L

¶17191586
KRSC Event type se.
SKHL II 03 17 51 54.1–.30 43.82N 148.15E 60 3.5b
¶600774591
ISC II 04 10 32 38.3–3.1 49.9N–.20 159.43E–.09 29 46 2-7
MOS II 04 10 32 38.3–2.6 50.10N 159.42E 41 4.2b ¶17191644
KRSC II 04 10 32 38.3–1.7 50.10N 159.42E 41–25 4.1L
ISC Event type se.
MOS Error ellipse: s-maj=41.1km s-min=8.1km az=94.2.
KRSC Event type se.
ISC II 04 11 01 08.1–3.0 43.76N–.04 148.56E–.05 25–23 3.3b 50 1-82
NIED II 04 11 01 00 43.70N 148.30E 17 3.8W ¶17191645
MOS II 04 11 01 05.2–1.7 43.75N 148.62E 18 4.2b
JMA II 04 11 01 06.9–.20 43.68N 148.30E 0 4.1
SKHL II 04 11 01 07.5–.50 43.73N 148.65E 43–5 4.7b
ISCJB II 04 11 01 08.2–.99 43.76N–.05 148.52E–.07 43–9 3.5b
IDC II 04 11 01 13.1–4.5 44.00N 148.32E 62–41 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ23.00000°,λ51.00000°. NP2:ϕ_s45.00000°,δ72.00000°,λ105.00000°. $M_0$4.88000×10^{14}
MOS Error ellipse: s-maj=16.6km s-min=11.2km az=120.2.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.2km az=42.9.
IDC Error ellipse: s-maj=29.4km s-min=18.7km az=144.0.
KRSC II 05 03 15 13.4–2.1 48.74N 156.58E 6–5 3.9L
¶17191710
KRSC Event type se.
ISC II 05 04 45 02.6–1.0 46.8N–.10 155.7E–.20 18 3.9b 17 4-76
IDC II 05 04 44 59.8–1.2 46.67N 155.60E 0 4.0,3.9b ¶16160371
ISCJB II 05 04 45 00.3–.96 46.70N–.10 155.7E–.20 18 3.9b,3.9b
NEIC II 05 04 45 05.1–.93 46.81N 155.77E 35 4.1b,3.9b
SKHL II 05 04 45 07.0–6.4 47.03N 155.63E 55–2 4.1b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=26.0km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=22.1km s-min=11.9km az=24.5.
NEIC Event type se. Error ellipse: s-maj=22.3km s-min=17.3km az=133.0.
NIED II 09 22 00 00 43.90N 149.60E 44 3.8W
¶601625916
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ40.00000°,λ-29.00000°. NP2:ϕ_s359.00000°,δ72.00000°,λ-126.00000°. $M_0$5.18000×10^{14}
ISC II 14 16 48 21.4–1.2 45.7N–.10 153.99E–.10 19 3.5b 20 4-77
IDC II 14 16 48 17.9–1.2 46.00N 154.13E 0 3.7,3.5 ¶17192257
ISCJB II 14 16 48 20.3–.92 45.7N–.10 153.88E–.09 19 3.4b,3.5
MOS II 14 16 48 23.9–1.1 45.85N 153.82E 56 4.0b,3.5
SKHL II 14 16 48 24.0–.40 45.70N 153.96E 60–1 5.7b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=28.5km az=30.0.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=8.9km az=168.0.
MOS Error ellipse: s-maj=24.7km s-min=15.2km az=178.9.
ISC II 16 07 18 11.6–4.0 44.9N–.10 150.6E–.20 39 26 2-8
JMA II 16 07 18 06.7–.50 45.35N 150.88E 30 4.0 ¶600529573
SKHL II 16 07 18 10.2–.40 44.89N 150.61E 30–4 5.2b
ISC Event type ke.
JMA Error ellipse: s-maj=7.8km s-min=5.5km az=-1.0.
ISC II 18 20 20 30.9–.34 44.75N–.03 150.17E–.03 46–2 5.3b,4.4s 1594 2-151
NIED II 18 20 20 00 44.80N 150.10E 56 5.1W,4.4s ¶16032241
ISCJB II 18 20 20 27.7–.60 44.71N–.02 150.28E–.02 33–4 5.3b,4.4s
SKHL II 18 20 20 29.7–.70 44.70N 150.33E 60–5 5.6b,5.3
MOS II 18 20 20 29.3–1.0 44.84N 150.14E 41 5.7b,4.4s
GCMT II 18 20 20 30.6–.20 44.84N 150.20E 39–0 5.1W,4.4s
BJI II 18 20 20 30.5 44.83N 149.94E 46 5.1b,5.1b
NEIC II 18 20 20 30.6–.42 44.82N 150.09E 40–3 5.4b,5.1b
JMA II 18 20 20 31.1–.40 44.79N 150.11E 30 5.0,5.1b
IDC II 18 20 20 33.7–.48 44.90N 150.15E 66–4 5.0,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ16.00000°. NP2:ϕ_s64.00000°,δ79.00000°,λ132.00000°. $M_0$5.61000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=1.7km az=166.2.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=102.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s86,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.97±.20 $M_{\theta\theta}$0.44±.13; $M_{\phi\phi}$-3.41±.13; $M_{r\theta}$1.97±.12; $M_{\theta\phi}$-3.11±.08; $M_{\phi r}$0.61±.11; Best double couple: NP1:ϕ_s58.00000°,δ63.00000°,λ128.00000°. NP2:ϕ_s177.00000°,δ45.00000°,λ39.00000°. Principal axes: T 4.2050,Plg54.0000°,Azm16.0000°; N 1.2150,Plg34.0000°,Azm218.0000°; P -5.4180,Plg10.0000°,Azm121.0000° $M_0$4.81100×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=158.0. Recorded [1 JMA] in eastern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=9.7km az=142.0.
ISC II 19 22 14 01.2–3.4 44.0N–.10 148.1E–.20 70 12 1-5
SKHL II 19 22 14 01.0–.20 43.90N 148.19E 57–1 4.1b ¶600530853
JMA II 19 22 14 02.2–.50 43.91N 148.05E 66 2.7
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=4.8km az=-1.0.
ISC II 20 11 58 20.1–1.3 46.9N–.20 155.8E–.10 18 3.6b 12 4-76
IDC II 20 11 58 14.9–3.2 46.37N 155.97E 0 3.9,3.7 ¶17192583
ISCJB II 20 11 58 18.4–1.2 47.0N–.20 155.7E–.20 18 3.6b,3.7
MOS II 20 11 58 19.9–2.1 46.75N 155.89E 32 4.2b,3.7
SKHL II 20 11 58 22.3–.30 47.09N 155.61E 46–5 4.6b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=67.2km s-min=49.8km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=28.4km s-min=8.5km az=149.3.
MOS Error ellipse: s-maj=32.6km s-min=16.7km az=70.9.
ISC II 20 14 16 45.3–2.8 43.7N–.10 148.1E–.10 34 23 1-4
JMA II 20 14 16 45.8–.20 43.60N 147.85E 15 3.2 ¶600531076
SKHL II 20 14 16 46.4–.00 43.77N 148.06E 33 4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
KRSC II 21 11 00 59.4–.24 49.91N 157.19E 78–20 3.7L
¶17192629
KRSC Event type se.
ISC II 21 23 21 09.3–.65 43.98N–.07 150.29E–.06 47 3.6b 72 2-81
NIED II 21 23 21 00 44.50N 150.40E 5 3.8W ¶16168896
IDC II 21 23 21 03.4–.80 44.07N 150.44E 0 3.9,3.8
SKHL II 21 23 21 06.7–.60 44.04N 150.40E 46–5 4.7b,3.8
ISCJB II 21 23 21 07.6–.46 43.99N–.05 150.23E–.04 47 3.6b,2.7s
MOS II 21 23 21 07.2–1.4 44.12N 150.34E 43 4.2b,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ22.00000°,λ-81.00000°. NP2:ϕ_s252.00000°,δ68.00000°,λ-94.00000°. $M_0$6.41000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=16.5km az=155.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.8km az=160.7.
MOS Error ellipse: s-maj=11.7km s-min=10.9km az=74.6.
SKHL II 25 16 19 15.5–.40 44.68N 152.00E 30–5 4.0b
¶600774661
SKHL III 08 10 30 15.6–.00 44.15N 151.98E 38–1 3.8b
JMA III 08 10 30 14.8–.80 44.97N 151.87E 30 3.5 ¶600537857
JMA Error ellipse: s-maj=10.0km s-min=7.9km az=-1.0.
ISC III 09 11 51 57.0–1.2 45.4N–.10 153.5E–.20 50 3.5b 6 8-78
IDC III 09 11 51 49.8–1.0 45.44N 153.75E 0 3.8,3.6 ¶17193551
ISCJB III 09 11 51 55.0–.98 45.5N–.10 153.4E–.20 50 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 22 28 53.7–.59 46.02N–.09 154.12E–.07 20 4.1b 82 4-147
IDC III 09 22 28 51.0–.69 46.04N 154.25E 0 4.6,4.6s ¶16449424
ISCJB III 09 22 28 52.0–.40 46.07N–.06 154.10E–.07 20 4.8s,4.2b
MOS III 09 22 28 53.6–1.4 46.05N 154.14E 33 4.3b,4.2b
SKHL III 09 22 28 53.6–.10 46.42N 153.78E 19–3 4.5b,4.2b
NEIC III 09 22 28 56.1–.35 46.03N 154.13E 35 4.5b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=16.7km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.1km az=149.6.
MOS Error ellipse: s-maj=13.1km s-min=8.6km az=81.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.0km az=166.0.
ISC III 12 21 23 50.3–4.1 48.8N–.20 157.9E–.10 35 37 2-8
MOS III 12 21 23 48.6–2.9 48.96N 158.21E 40 4.6b ¶16311601
KRSC III 12 21 23 48.5–2.0 48.96N 158.21E 40–26 4.6L
ISC Event type se.
MOS Error ellipse: s-maj=42.4km s-min=7.1km az=89.1.
KRSC Event type se.
ISC III 13 21 57 39.2–1.1 43.9N–.20 149.7E–.20 38 3.9b 13 11-81
IDC III 13 21 57 33.4–1.2 43.89N 149.70E 0 4.0,3.8 ¶17194996
ISCJB III 13 21 57 37.1–.98 43.9N–.20 149.7E–.20 38 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 03 18 07.0–.56 47.92N–.07 155.16E–.07 33 4.5b 115 3-147
IDC III 18 03 18 01.8–.64 47.86N 155.13E 0 5.0L,4.1 ¶16339124
KRSC III 18 03 18 03.7–1.9 48.03N 156.21E 6–3 4.8L,4.1
ISCJB III 18 03 18 05.9–.34 48.02N–.04 155.15E–.06 33 4.3b,4.1
SKHL III 18 03 18 05.7–.80 47.90N 155.01E 44–6 4.6b,4.1
MOS III 18 03 18 07.0–1.8 47.99N 155.19E 48 4.8b,4.1
NEIC III 18 03 18 07.6–1.7 47.87N 155.10E 37–13 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=14.4km az=150.0.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.1km az=137.0.
MOS Error ellipse: s-maj=12.8km s-min=5.7km az=77.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=6.7km az=166.0.
ISC III 19 07 24 17.9–1.5 50.96N–.08 158.37E–.07 49–13 3.8b 70 1-82
KRSC III 19 07 24 14.6–2.2 50.94N 158.62E 52–23 4.6L ¶16339766
MOS III 19 07 24 16.5–1.4 51.00N 158.05E 55 4.1b
ISCJB III 19 07 24 17.9–.92 51.03N–.06 158.3E–.10 65–7 3.6b
IDC III 19 07 24 21.8–2.6 51.21N 157.97E 78–23 3.8,3.7
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=18.2km s-min=5.2km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=7.1km az=41.8.
IDC Error ellipse: s-maj=20.2km s-min=13.5km az=128.0.
SKHL III 19 20 16 40.8–.80 45.90N 153.11E 69–1 4.1b
¶600847868
SKHL III 20 02 34 37.8–.50 43.06N 149.23E 58–2 4.2b
¶600847870
KRSC III 20 22 46 43.5–1.5 48.87N 158.30E 23–30 4.2L
MOS III 20 22 46 43.5–2.5 48.87N 158.30E 23 4.4b ¶16341507
KRSC Event type se.
MOS Error ellipse: s-maj=63.5km s-min=11.4km az=88.8.
SKHL III 21 16 04 45.5–.80 44.25N 151.94E 50–8 4.2b
¶600847971
IDC III 22 03 14 45.5–4.4 46.13N 155.23E 0 3.8,3.6
¶17197908
IDC Error ellipse: s-maj=162.1km s-min=33.3km az=7.0.
SKHL III 26 14 54 38.4–.40 46.75N 154.30E 60–1 4.7b
¶600847978
KRSC III 27 14 55 25.8–.93 50.99N 158.22E 51–17 3.5L
¶16364025
KRSC Event type se.
KRSC III 29 14 16 31.3–2.3 47.96N 156.33E 15–7 3.8L
¶16391150
KRSC Event type se.
ISC III 30 13 24 38.7–3.0 49.7N–.20 157.74E–.10 35 36 1-10
MOS III 30 13 24 34.2–1.3 49.59N 157.79E 22 4.2b ¶16399874
KRSC III 30 13 24 35.8–2.2 49.77N 158.00E 39–26 4.0L
ISC Event type se.
MOS Error ellipse: s-maj=26.9km s-min=7.4km az=88.4.
KRSC Event type se.
KRSC IV 01 23 06 59.5–1.1 49.86N 157.16E 19–34 3.7L
¶17199466
KRSC Event type se.
ISC IV 02 00 12 06.1–1.1 48.89N–.09 156.2E–.10 34 3.5b 52 2-77
MOS IV 02 00 12 00.6–1.5 48.72N 156.25E 16 4.1b ¶16404908
KRSC IV 02 00 12 02.2–1.7 48.82N 157.21E 17–29 4.1L
SKHL IV 02 00 12 02.0–.80 48.64N 156.46E 22–6 4.5b
ISCJB IV 02 00 12 04.1–.90 48.82N–.08 156.3E–.10 34 3.5b,3.1s
IDC IV 02 00 12 21.7–3.0 50.17N 155.30E 106–21 3.6,3.5
ISC Event type se.
MOS Error ellipse: s-maj=24.9km s-min=6.4km az=79.7.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=6.6km az=40.1.
IDC Error ellipse: s-maj=31.9km s-min=17.2km az=153.0.
IDC IV 03 05 00 57.4–3.2 46.50N 154.83E 0 3.8,3.6b
¶17199613
IDC Error ellipse: s-maj=72.6km s-min=52.2km az=27.0.
KRSC IV 04 08 23 54.8–1.6 48.90N 156.36E 4–17 4.1L
MOS IV 04 08 24 02.8–.87 49.34N 156.17E 11 4.2b ¶16408809
KRSC Event type se.
MOS Error ellipse: s-maj=69.6km s-min=6.7km az=77.7.
ISC IV 04 20 32 25.4–3.1 43.99N–.10 148.3E–.10 7–13 17 1-5
JMA IV 04 20 32 27.0–.70 43.69N 148.18E 13 3.1 ¶600577639
SKHL IV 04 20 32 27.5–.60 43.93N 148.34E 25–1 3.8b
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0.
KRSC IV 06 09 45 05.3–1.9 47.77N 156.51E 17–14 4.0L
MOS IV 06 09 45 05.2–2.5 47.77N 156.51E 17 4.2b ¶16413279
SKHL IV 06 09 45 06.4–5.3 47.84N 155.06E 15–3 4.1b
KRSC Event type se.
MOS Error ellipse: s-maj=97.4km s-min=8.6km az=81.5.
KRSC IV 07 10 27 21.0–1.4 50.72N 158.64E 51–22 3.7L
¶16414226
KRSC Event type se.
SKHL IV 08 04 53 59.9–.70 44.83N 150.21E 45–5 4.3b
¶600972860
SKHL IV 09 11 26 50.0–.30 45.40N 152.12E 36–3 4.2b
¶600972877
ISC IV 10 11 01 46.2–.87 45.82N–.10 153.93E–.08 20 3.8b 34 4-77
IDC IV 10 11 01 43.0–.89 45.78N 154.05E 0 3.9,3.7 ¶17200453
ISCJB IV 10 11 01 44.4–.69 45.82N–.08 153.83E–.09 20 3.7b,3.7
MOS IV 10 11 01 46.7–1.4 45.80N 153.89E 41 4.1b,3.7
SKHL IV 10 11 01 48.0–.20 45.98N 153.77E 45–5 4.6b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=20.3km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=6.3km az=149.2.
MOS Error ellipse: s-maj=14.5km s-min=11.9km az=90.0.
KRSC IV 16 23 30 53.1–1.9 50.04N 158.10E 49–24 3.8L
¶16442669
KRSC Event type se.
ISC IV 20 23 40 05.4–1.6 50.1N–.10 160.17E–.08 35 3.3b 52 3-72
IDC IV 20 23 39 59.4–5.9 50.00N 160.04E 0 3.8,3.4 ¶17201652
KRSC IV 20 23 40 00.5–1.1 50.11N 160.25E 46–24 4.0L,3.4
MOS IV 20 23 40 06.5–.96 50.45N 160.44E 33 4.2b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=119.1km s-min=34.0km az=45.0.
KRSC Event type se.
MOS Error ellipse: s-maj=22.8km s-min=6.2km az=104.0.
KRSC IV 21 12 26 04.1–3.0 48.87N 158.08E 19–10 3.7L
¶17201713
KRSC Event type se.
KRSC IV 21 22 18 43.5–2.6 48.90N 156.57E 6–5 4.1L
MOS IV 21 22 18 43.4–2.2 48.90N 156.57E 6 4.2b ¶17201752
KRSC Event type se.
MOS Error ellipse: s-maj=83.6km s-min=10.5km az=81.7.
ISC IV 22 09 46 46.7–3.8 50.00N–.08 157.44E–.06 8–24 3.6b 49 1-76

KRSC IV 22 09 46 47.6–3.6 50.07N 158.02E 16–40 4.3L ¶16452501
MOS IV 22 09 46 50.0–1.6 50.08N 157.37E 54 4.1b
IDC IV 22 09 46 55.5–3.7 50.22N 156.97E 79–31 3.5,3.4
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=26.4km s-min=6.4km az=82.3.
IDC Error ellipse: s-maj=35.6km s-min=24.9km az=126.0.
KRSC IV 24 06 53 01.5–2.2 49.62N 157.12E 15–10 3.7L
¶16456675
KRSC Event type se.
KRSC IV 24 07 58 57.7–1.5 48.78N 156.71E 6–3 4.1L
MOS IV 24 07 58 57.7–2.4 48.78N 156.71E 6 4.1b ¶16456678
SKHL IV 24 07 58 58.3–.00 48.80N 155.69E 24–5 4.0b
KRSC Event type se.
MOS Error ellipse: s-maj=63.9km s-min=9.5km az=81.7.
KRSC IV 25 05 38 16.0–2.9 49.40N 157.03E 6–3 3.9L
¶16463182
KRSC Event type se.
KRSC IV 25 15 31 21.2–1.7 49.81N 159.62E 46–18 3.6L
¶16463242
KRSC Event type se.
ISC IV 26 19 05 38.7–.97 46.90N–.08 155.30E–.10 18 3.6b 36 4-76
IDC IV 26 19 05 35.4–1.0 46.66N 155.47E 0 3.8,3.6 ¶17202179
ISCJB IV 26 19 05 36.9–.84 46.96N–.06 155.2E–.10 18 3.5b,3.6
SKHL IV 26 19 05 40.2–.90 45.38N 153.91E 59–9 4.8b,3.6
MOS IV 26 19 05 41.0–3.1 47.00N 155.20E 68 4.0b,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.3km s-min=21.7km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=4.9km az=38.0.
MOS Error ellipse: s-maj=25.0km s-min=14.2km az=137.1.
ISC IV 27 14 37 16.2–.95 44.4N–.10 152.48E–.08 25 4.0b 67 3-80
IDC IV 27 14 37 12.0–2.0 44.33N 152.70E 0 3.9,3.8 ¶16505552
ISCJB IV 27 14 37 15.0–.76 44.47N–.09 152.38E–.07 25 3.8b,3.2s
NEIC IV 27 14 37 15.5–2.6 44.35N 152.75E 23–16 4.1b,3.2s
MOS IV 27 14 37 16.3–1.2 44.50N 152.54E 40 4.1b,3.2s
SKHL IV 27 14 37 16.8–1.7 44.51N 152.49E 50–8 4.6b,3.2s
JMA IV 27 14 37 16.9–.60 44.71N 152.34E 30 4.8,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=49.7km s-min=18.9km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=4.4km az=156.1.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=6.8km az=151.0.
MOS Error ellipse: s-maj=11.1km s-min=8.9km az=84.2.
JMA Error ellipse: s-maj=10.0km s-min=5.5km az=-1.0.
KRSC IV 28 08 05 05.2–1.7 49.97N 157.19E 21–37 3.9L
¶16482355
KRSC Event type se.
ISC V 01 01 16 19.0–1.3 49.86N–.08 158.75E–.09 10 3.2b 26 2-73
KRSC V 01 01 16 18.9–2.1 49.50N 157.19E 55–49 3.9L ¶16486819
IDC V 01 01 16 18.0–2.2 49.85N 159.13E 0 3.5,3.4
ISC Event type se.
KRSC Event type se.
IDC Error ellipse: s-maj=47.5km s-min=29.7km az=22.0.
ISC V 01 19 41 01.7–.89 44.92N–.09 151.10E–.08 35 3.8b 54 2-79
JMA V 01 19 41 05.8–.40 45.39N 150.64E 30 4.4 ¶17202556
SKHL V 01 19 41 07.2–.40 45.10N 150.70E 78–5 4.8b
MOS V 01 19 41 07.1–1.8 45.76N 150.40E 58 4.0b
IDC V 01 19 41 11.6–2.9 45.94N 150.38E 75–25 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=4.7km az=-1.0.
MOS Error ellipse: s-maj=19.2km s-min=11.1km az=73.4.
IDC Error ellipse: s-maj=26.0km s-min=17.1km az=136.0.
ISC V 02 07 27 04.1–3.4 48.4N–.20 157.1E–.10 16 52 2-10
KRSC V 02 07 27 02.6–1.5 48.45N 157.66E 20–13 4.2L ¶16488865
MOS V 02 07 27 02.6–2.6 48.45N 157.66E 20 4.3b
SKHL V 02 07 27 03.4–.60 48.30N 157.20E 32–4 4.3b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=57.4km s-min=7.4km az=87.6.
KRSC V 06 16 08 59.1–4.2 48.95N 157.09E 6–11 3.6L
¶16498444
KRSC Event type se.
KRSC V 07 17 28 08.7–2.6 49.42N 157.22E 16–36 3.8L
¶16499291
KRSC Event type se.
KRSC V 10 06 39 10.1–1.5 47.93N 156.39E 15–10 3.9L
¶16504097
KRSC Event type se.
KRSC V 13 22 54 46.4–2.1 48.23N 156.73E 30–13 4.0L
¶16510216
KRSC Event type se.
KRSC V 15 06 02 44.7–4.4 48.21N 156.49E 50–25 3.7L
¶16520400
KRSC Event type se.
SKHL V 18 09 36 00.2–.00 47.77N 155.21E 8–3 4.2b
KRSC V 18 09 36 01.2–1.8 47.41N 157.76E 8–28 4.1L ¶16528311
MOS V 18 09 36 01.1–2.6 47.41N 157.76E 8 4.2b
KRSC Event type se.
MOS Error ellipse: s-maj=99.9km s-min=11.8km az=85.8.
KRSC V 19 02 19 33.5–2.0 49.86N 157.64E 41–17 3.5L
¶16530088
KRSC Event type se.
ISC V 20 15 41 59.5–.96 46.36N–.08 155.34E–.07 18 3.7b 52 4-93
IDC V 20 15 41 57.0–1.1 46.70N 155.39E 0 3.9,3.8 ¶17204054
ISCJB V 20 15 41 58.9–.78 46.41N–.07 155.16E–.09 18 3.6b,3.2s
SKHL V 20 15 42 01.9–.20 46.28N 155.28E 54–5 4.5b,3.2s
MOS V 20 15 42 02.9–1.1 46.54N 155.00E 57 3.9b,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=29.2km s-min=24.5km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.8km az=141.5.
MOS Error ellipse: s-maj=13.3km s-min=11.1km az=170.8.
ISC V 25 17 04 06.1–3.3 43.98N–.06 148.34E–.07 6–20 3.9b 56 1-82
NIED V 25 17 04 00 43.90N 148.20E 20 3.8W ¶17204463
JMA V 25 17 04 07.2–.40 43.87N 148.25E 0 4.2
SKHL V 25 17 04 08.7–.40 43.95N 148.49E 45–5 4.6b
MOS V 25 17 04 09.7–1.3 44.16N 148.38E 42 4.3b
IDC V 25 17 04 13.8–3.5 44.33N 148.27E 53–28 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ19.00000°,λ88.00000°.
NP2:ϕ_s35.00000°,δ71.00000°,λ91.00000°. M_o5.90000×10^{14}
JMA Error ellipse: s-maj=3.3km s-min=3.2km az=-1.0.
MOS Error ellipse: s-maj=13.9km s-min=12.8km az=39.2.
IDC Error ellipse: s-maj=43.9km s-min=19.4km az=158.0.
KRSC V 26 16 50 06.7–1.1 48.15N 156.44E 6–29 4.0L
¶16549369
KRSC Event type se.
KRSC V 27 02 01 11.7–1.4 49.26N 157.10E 40–26 4.1L
MOS V 27 02 01 11.6–2.5 49.26N 157.10E 40 4.2b ¶16631588
KRSC Event type se.
MOS Error ellipse: s-maj=59.3km s-min=9.5km az=84.0.
ISC V 27 17 22 35.5–3.9 44.95N–.09 150.2E–.20 51 41 2-9
SKHL V 27 17 22 36.0–1.2 45.17N 150.15E 59–5 4.7b ¶600624592
JMA V 27 17 22 39.0–.60 44.97N 149.78E 118 3.5
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.
KRSC V 27 17 46 12.6–.82 50.93N 159.96E 40–22 3.6L
¶16631590
KRSC Event type se.
ISC V 28 17 58 44.4–4.1 49.6N–.20 157.09E–.09 35 32 1-6
KRSC V 28 17 58 44.2–1.8 49.79N 157.31E 50–24 4.3L ¶16551372
MOS V 28 17 58 44.2–2.3 49.79N 157.31E 49 4.4b
ISC Event type se.
KRSC Event type se.
MOS Error ellipse: s-maj=43.1km s-min=7.8km az=84.5.
KRSC V 29 14 03 22.0–1.4 48.88N 156.34E 8–27 3.6L
¶16551508
KRSC Event type se.
KRSC VI 01 06 54 41.7–1.2 50.52N 158.13E 70–26 3.6L
¶603071535
KRSC Event type se.
KRSC VI 03 14 44 20.9–1.3 49.94N 157.39E 20–36 3.9L
¶603071539
KRSC Event type se.
KRSC VI 04 11 08 22.1–1.6 48.85N 157.40E 30–14 3.9L
¶603071540
KRSC Event type se.
KRSC VI 05 02 12 25.8–2.4 48.48N 157.72E 17–36 3.8L
¶603071543
KRSC Event type se.
KRSC VI 06 21 42 26.8–1.2 49.94N 157.15E 24–26 3.8L
¶603071547
KRSC Event type se.
KRSC VI 07 02 03 42.3–1.4 47.93N 157.09E 17–55 4.6L
MOS VI 07 02 03 42.2–2.5 47.93N 157.09E 17 4.6b ¶16575940
KRSC Event type se.
MOS Error ellipse: s-maj=75.3km s-min=7.4km az=84.9.
KRSC VI 07 12 31 25.1–1.4 49.32N 157.48E 7–37 3.9L
¶603071548
KRSC Event type se.
KRSC VI 07 22 50 14.7–1.3 49.15N 157.13E 6–18 3.7L
¶603071550
KRSC Event type se.
KRSC VI 09 01 05 40.9–.87 49.12N 157.05E 6–3 3.8L
¶603071552
KRSC Event type se.
KRSC VI 10 18 30 02.7–2.6 49.67N 157.30E 16–38 4.2L
MOS VI 10 18 30 02.7–2.1 49.67N 157.30E 16 4.3b ¶16589813
KRSC Event type se.
MOS Error ellipse: s-maj=38.5km s-min=6.4km az=84.4.
KRSC VI 11 09 52 40.4–1.6 49.32N 157.13E 14–7 3.6L
¶603071561
KRSC Event type se.
KRSC VI 11 14 03 43.3–3.1 49.75N 157.37E 48–26 4.2L
MOS VI 11 14 03 43.3–2.4 49.75N 157.37E 48 4.3b ¶16591626
KRSC Event type se.
MOS Error ellipse: s-maj=38.4km s-min=6.1km az=83.7.
ISC VI 11 16 26 35.5–.52 50.47N–.05 159.62E–.04 42–3 4.5b,3.2s 315 2-90
MOS VI 11 16 26 34.0–.92 50.39N 159.53E 49 4.7b,3.2s ¶16591629
ISCJB VI 11 16 26 35.8–.57 50.51N–.03 159.46E–.04 58–4 4.5b,3.3s
BJI VI 11 16 26 35.3 50.43N 159.16E 45 4.7b,4.6b
KRSC VI 11 16 26 36.5–2.3 50.74N 159.82E 41–26 5.0L,4.6b
NEIC VI 11 16 26 37.0–.80 50.51N 159.46E 54–6 4.6b,4.6b
IDC VI 11 16 26 38.2–2.2 50.54N 159.42E 64–17 4.3,4.1
ISC Event type se.
MOS Error ellipse: s-maj=7.3km s-min=3.0km az=94.1.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=143.9.
KRSC Event type se. FELT [III] at lighthouse Krugliy.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.6km az=162.0.
IDC Error ellipse: s-maj=14.2km s-min=11.4km az=135.0.
ISC VI 11 19 40 49.9–.91 47.0N–.10 155.4E–.10 18 3.9b 37 6-79
ISCJB VI 11 19 40 47.7–.54 46.96N–.08 155.4E–.10 18 3.9b ¶16856980
IDC VI 11 19 40 47.0–.97 46.86N 155.33E 0 3.8,3.8b
MOS VI 11 19 40 50.7–1.7 46.97N 155.29E 36 4.1b,3.8b
NEIC VI 11 19 40 52.3–.48 47.01N 155.45E 35 4.5b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.3km az=138.6.
IDC Error ellipse: s-maj=28.7km s-min=19.5km az=81.0.
MOS Error ellipse: s-maj=16.1km s-min=12.8km az=87.8.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.6km az=135.0.
ISC VI 13 01 34 48.8–1.1 46.6N–.10 156.0E–.20 17 3.6b 8 7-76
IDC VI 13 01 34 46.3–1.1 46.60N 156.05E 0 4.0s,3.9 ¶17206019
ISCJB VI 13 01 34 47.1–.99 46.57N–.10 156.0E–.30 17 4.0s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 17 10 39 37.2–.25 48.54N–.03 156.19E–.03 41–1 5.3b,5.0s 1568 2-157
KRSC VI 17 10 39 32.5–3.2 48.39N 156.48E 101–47 6.0L,5.0s ¶16621539
ISCJB VI 17 10 39 33.6–.61 48.50N–.02 156.32E–.02 29–4 5.3b,4.9s
BJI VI 17 10 39 33.5 48.45N 156.45E 40 5.3b,5.3b
MOS VI 17 10 39 35.2–1.0 48.55N 156.27E 40 5.5b,4.8s
SKHL VI 17 10 39 35.3–.70 48.42N 156.37E 52–8 6.4s,5.7b
IDC VI 17 10 39 40.0–.38 48.60N 156.13E 65–3 5.1,5.0
GCMT VI 17 10 39 39.8–.10 48.54N 156.33E 35–0 5.4W,5.0
NEIC VI 17 10 39 39.8–.08 48.60N 156.20E 65 5.3b,5.0
ISC Event type fe.
KRSC Event type se. FELT [II] at lighthouse Krugliy.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=155.1.
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=2.7km az=84.9. Felt (III) Severo-Kuril'sk. Moment Tensor Solution.
SKHL Event type fe. Felt (III) at Severo-Kurilsk(250 km).
IDC Error ellipse: s-maj=9.7km s-min=8.0km az=126.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s100,c169; s126,c226; Duration: 1$\bar{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.10±.03 $M_{\theta\theta}$0.28±.02; $M_{\phi\phi}$-1.38±.02; $M_{r\theta}$-0.56±.03; $M_{\theta\phi}$-0.35±.01; $M_{\phi r}$0.77±.03; Best double couple: NP1:ϕ_s345.00000°,δ64.00000°,λ61.00000°. NP2:ϕ_s218.00000°,δ38.00000°,λ136.00000°. Principal axes:
T 1.6230,Plg59.0000°,Azm212.0000°; N -0.0020,Plg26.0000°,Azm359.0000°
; P -1.6190,Plg14.0000°,Azm96.0000° M_o1.62100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.7km az=155.0. Felt [III] at Severo-Kuril'sk. Also felt at Petropavlovsk-Kamchatskiy.
KRSC VI 17 20 01 15.7–2.0 48.83N 157.43E 15–7 4.0L
MOS VI 17 20 01 15.6–2.3 48.83N 157.43E 15 4.2b ¶16631598
KRSC Event type se.
MOS Error ellipse: s-maj=64.1km s-min=8.6km az=85.2.
IDC VI 19 11 49 23.0–1.9 47.14N 156.47E 0 3.6,3.4
¶17206524
IDC Error ellipse: s-maj=50.2km s-min=25.5km az=161.0.
KRSC VI 21 15 17 33.1–1.5 49.02N 157.09E 6–5 4.1L
MOS VI 21 15 17 33.0–2.2 49.02N 157.09E 6 4.3b ¶16643037
KRSC Event type se.
MOS Error ellipse: s-maj=53.0km s-min=7.4km az=84.4.
KRSC VI 26 01 59 01.1–2.5 49.95N 157.57E 15–6 3.9L
¶603071585
KRSC Event type se.
KRSC VI 26 03 10 41.4–2.7 49.99N 157.58E 15–6 3.9L
¶603071586
KRSC Event type se.
KRSC VI 26 12 09 26.2–2.1 48.83N 157.72E 6–3 3.8L
¶603071587
KRSC Event type se.
ISC VI 27 01 21 38.1–.00 47.5N–.10 155.7E–.20 18 3.8b 13 6-79
IDC VI 27 01 21 35.5–.97 47.62N 155.66E 0 3.9,3.7 ¶17207035
ISCJB VI 27 01 21 36.3–.81 47.6N–.10 155.6E–.20 18 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
KRSC VI 29 17 58 33.5–3.3 49.72N 157.04E 15–10 4.1L
MOS VI 29 17 58 33.5–2.2 49.72N 157.04E 15 4.2b ¶16692819
KRSC Event type se.
MOS Error ellipse: s-maj=41.4km s-min=7.1km az=82.9.
ISC VI 30 21 33 37.1–1.3 47.8N–.10 155.6E–.10 35 38 3-70
KRSC VI 30 21 33 39.3–1.9 48.05N 156.39E 16–10 4.2L ¶16702924
MOS VI 30 21 33 39.2–2.2 48.04N 156.39E 15 4.2b
IDC VI 30 21 33 42.2–6.3 48.16N 154.67E 74–79 3.7,3.5
ISC Event type se.

KRSC Event type se.
MOS Error ellipse: s-maj=91.9km s-min=7.9km az=81.6.
IDC Error ellipse: s-maj=123.3km s-min=31.0km az=141.0.

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ISC	**I**	**21 19 06 57.1–.63**	**41.65N–.06**	**136.85E–.05**	**300**	**3.2b**	**30**	**2-90**
ISCJB	I	21 19 06 57.0–.41	41.70N–.05	136.73E–.06	300	3.2b		¶17190691
IDC	I	21 19 06 57.9–1.1	41.69N	136.74E	310–9	3.6,3.1		
JMA	I	21 19 06 59.6–.40	41.58N	137.07E	321	3.3,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.7km az=18.7.
IDC Error ellipse: s-maj=20.5km s-min=10.5km az=179.0.
JMA Error ellipse: s-maj=2.2km s-min=6.7km az=-1.0.

ISC	**II**	**15 08 04 32.3–.68**	**42.20N–.05**	**137.44E–.06**	**284**	**3.5b**	**42**	**2-76**
ISCJB	II	15 08 04 31.8–.38	42.24N–.04	137.34E–.05	284	3.4b		¶17192291
JMA	II	15 08 04 32.1–.30	42.22N	137.41E	303–3	3.9		
IDC	II	15 08 04 32.4–1.1	42.29N	137.33E	282–8	3.8,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=27.3.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=9.3km az=171.0.

ISC	**II**	**23 05 22 36.7–.79**	**41.09N–.09**	**136.06E–.09**	**400**	**3.3b**	**20**	**3-78**
ISCJB	II	23 05 22 35.9–.48	41.10N–.08	135.98E–.08	400	3.4b		¶17192738
JMA	II	23 05 22 36.3–.30	41.19N	136.08E	398	3.4		
IDC	II	23 05 22 37.0–1.7	41.32N	135.63E	363–14	3.8,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.4km az=27.8.
JMA Error ellipse: s-maj=2.2km s-min=5.0km az=-1.0.
IDC Error ellipse: s-maj=37.6km s-min=13.9km az=172.0.

ISC	**III**	**04 23 50 54.5–.79**	**43.14N–.07**	**139.49E–.07**	**250**	**3.3b**	**26**	**1-63**
JMA	III	04 23 50 53.4–.30	43.25N	139.25E	234–3	2.9		¶17193251
ISCJB	III	04 23 50 53.4–.47	43.14N–.05	139.49E–.07	250	3.1b		
IDC	III	04 23 50 53.5–.93	43.24N	139.17E	220–10	3.6,3.2		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.5km az=155.4.
IDC Error ellipse: s-maj=17.1km s-min=12.8km az=153.0.

ISC	**III**	**10 21 13 53.7–.79**	**43.48N–.07**	**139.50E–.07**	**200**	**3.5b**	**29**	**1-49**
IDC	III	10 21 13 53.9–.96	43.64N	139.43E	192–14	3.7,3.2		¶17193657
ISCJB	III	10 21 13 53.0–.42	43.59N–.05	139.44E–.06	200	3.3b,3.2		
JMA	III	10 21 13 54.0–.20	43.48N	139.58E	209–2	2.8,3.2		

ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=15.3km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.8km az=10.3.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.

JMA	**III**	**11 08 08 31.0–.20**	**39.26N**	**138.49E**	**0**	**4.3**		
								¶602653578

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**11 09 14 28.9–.81**	**42.4N–.10**	**136.5E–.10**	**250**	**3.9b**	**10**	**6-90**
ISCJB	III	11 09 14 27.9–.68	42.4N–.10	136.5E–.20	250	3.9b		¶17193734
IDC	III	11 09 14 30.1–2.6	42.25N	136.58E	266–34	4.3,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.2km s-min=13.2km az=37.4.
IDC Error ellipse: s-maj=31.1km s-min=16.2km az=170.0.

ISC	**III**	**11 09 15 33.2–.55**	**39.80N–.06**	**138.50E–.09**	**24**	**4.6b**	**26**	**3-83**
IDC	III	11 09 15 30.4–.94	39.82N	138.43E	0	4.6,4.4b		¶16476125
ISCJB	III	11 09 15 31.5–.44	39.85N–.05	138.51E–.08	24	4.5b,4.4b		
NEIC	III	11 09 15 35.3–.99	39.86N	138.55E	35–11	4.6b,4.4b		

ISC Event type se.
IDC Error ellipse: s-maj=37.7km s-min=21.0km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.7km az=28.3.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=9.4km az=99.0.

JMA	**III**	**11 14 28 08.6–.10**	**38.13N**	**137.76E**	**15–4**	**2.6**		
								¶16310123

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**17 00 29 35.6–1.1**	**39.7N–.10**	**138.7E–.20**	**15**	**3.6b**	**6**	**3-63**
IDC	III	17 00 29 33.4–1.1	39.75N	138.60E	0	3.8,3.7b		¶17196575
ISCJB	III	17 00 29 33.6–1.0	39.7N–.10	138.7E–.30	15	3.6b,3.7b		

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**18 21 50 08.5–4.4**	**40.83N**	**138.57E**	**338–48**	**3.6,3.1**		
								¶17197087

IDC Error ellipse: s-maj=26.9km s-min=18.8km az=111.0.

ISC	**III**	**21 03 40 12.2–1.4**	**43.2N–.20**	**139.6E–.20**	**19**	**3.4b**	**6**	**16-63**
IDC	III	21 03 40 09.3–1.7	43.21N	139.60E	0	3.5,3.4		¶17197616
ISCJB	III	21 03 40 10.2–1.2	43.2N–.20	139.7E–.20	19	3.3b,3.4		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**24 21 45 40.3–.71**	**44.13N–.06**	**140.90E–.06**	**244–6**	**3.2b**	**37**	**0-86**
JMA	III	24 21 45 39.7–.30	44.19N	140.82E	248–3	3.2		¶17198410
ISCJB	III	24 21 45 39.4–.40	44.16N–.05	140.87E–.08	247–4	3.2b		
IDC	III	24 21 45 40.8–2.2	44.17N	140.72E	246–22	3.6,3.2		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.8km az=27.1.
IDC Error ellipse: s-maj=20.1km s-min=15.3km az=94.0.

JMA	**III**	**26 20 00 54.0–.20**	**42.00N**	**138.43E**	**33–2**	**4.0**		
								¶602693775

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**IV**	**01 00 32 08.5–.10**	**44.28N**	**140.54E**	**2–2**	**3.6**		
								¶600574600

IDC	**IV**	**02 15 48 05.6–6.5**	**41.09N**	**138.21E**	**570–148**	**3.3,2.4**		
								¶17199546

IDC Error ellipse: s-maj=233.6km s-min=156.4km az=32.0.

ISC	**IV**	**02 18 36 21.3–.54**	**44.00N–.05**	**139.88E–.05**	**241–6**	**4.2b**	**190**	**1-87**
NIED	IV	02 18 36 00	44.00N	139.80E	290	4.2W		¶16404914
ISCJB	IV	02 18 36 20.4–.19	44.01N–.03	139.83E–.04	243–2	4.2b		
IDC	IV	02 18 36 20.7–1.3	44.08N	139.82E	228–13	4.3,3.9		
NEIC	IV	02 18 36 21.0–.35	44.05N	139.77E	233–4	4.4b,3.9		
JMA	IV	02 18 36 21.1–.20	44.00N	139.82E	243–2	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ17.00000°,λ-155.00000°. NP2:ϕ_s133.00000°,δ83.00000°,λ-74.00000°. $M_0$2.62000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.7km az=148.8.
IDC Error ellipse: s-maj=9.9km s-min=8.0km az=122.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.

JMA	**IV**	**06 08 56 17.9–.10**	**39.47N**	**138.68E**	**21–2**	**2.9**		
								¶600578830

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**12 00 59 52.3–.53**	**44.51N–.06**	**138.60E–.05**	**287**	**3.8b**	**63**	**2-87**
ISCJB	V	12 00 59 51.7–.26	44.63N–.04	138.51E–.04	287	3.7b		¶17203443
MOS	V	12 00 59 51.4–.81	44.65N	138.57E	292	4.2b		
JMA	V	12 00 59 52.4–.30	44.58N	138.49E	291–3	3.7		
IDC	V	12 00 59 52.2–.98	44.62N	138.48E	280–10	4.0,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=17.3.
MOS Error ellipse: s-maj=16.4km s-min=11.3km az=96.2.
JMA Error ellipse: s-maj=2.2km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=9.5km az=176.0.

ISC	**V**	**30 16 46 30.3–.73**	**43.80N–.07**	**139.97E–.07**	**249–7**	**3.4b**	**44**	**1-74**
ISCJB	V	30 16 46 29.5–.36	43.83N–.05	139.94E–.07	254–5	3.3b		¶17204770
IDC	V	30 16 46 30.2–.67	43.85N	139.87E	244–7	3.7,3.3		
JMA	V	30 16 46 30.0–.20	43.89N	139.87E	246–2	3.5,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.1km az=44.0.
IDC Error ellipse: s-maj=12.8km s-min=10.3km az=137.0.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.

ISC	**VI**	**13 05 50 52.7–.59**	**43.24N–.04**	**139.19E–.05**	**213–5**	**4.2b**	**125**	**1-152**
NIED	VI	13 05 50 00	43.20N	139.30E	260	4.1W		¶16593452
MOS	VI	13 05 50 51.6–.87	43.32N	139.19E	217	4.1b		
ISCJB	VI	13 05 50 51.8–.21	43.27N–.03	139.21E–.04	220–3	4.0b		
IDC	VI	13 05 50 52.7–.73	43.29N	139.14E	214–7	4.2,3.8		
JMA	VI	13 05 50 53.0–.10	43.23N	139.26E	217–2	3.8,3.8		
NEIC	VI	13 05 50 53.1–.40	43.23N	139.19E	217–6	4.3b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ14.00000°,λ103.00000°. NP2:ϕ_s214.00000°,δ76.00000°,λ87.00000°. $M_0$1.76000×10^{15}
MOS Error ellipse: s-maj=9.0km s-min=6.7km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.5km az=139.6.
IDC Error ellipse: s-maj=9.2km s-min=8.6km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.9km az=143.0.

ISC	**VI**	**22 16 58 50.1–.55**	**42.73N–.04**	**138.54E–.05**	**240–5**	**4.2b**	**230**	**1-149**
NIED	VI	22 16 58 00	42.70N	138.60E	260	4.3W		¶16646391
MOS	VI	22 16 58 49.9–.80	42.86N	138.49E	244	4.3b		
ISCJB	VI	22 16 58 49.6–.19	42.74N–.02	138.56E–.04	247–2	4.2b		
JMA	VI	22 16 58 50.9–.20	42.75N	138.57E	242–2	4.3		
NEIC	VI	22 16 58 50.7–.44	42.77N	138.47E	240–5	4.3b		
IDC	VI	22 16 58 50.5–.73	42.80N	138.52E	238–7	4.3,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ50.00000°,λ-48.00000°. NP2:ϕ_s74.00000°,δ55.00000°,λ-129.00000°. $M_0$2.83000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.2km az=106.8.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.2km az=142.0.
IDC Error ellipse: s-maj=8.4km s-min=7.3km az=157.0.

(224) Hokkaido region.

ISC	**I**	**01 00 14 48.9–.80**	**45.01N–.08**	**142.30E–.08**	**281**	**3.3b**	**30**	**0-73**
ISCJB	I	01 00 14 49.0–.51	45.09N–.07	142.3E–.10	281	3.1b		¶17189093
JMA	I	01 00 14 49.5	45.08N	142.27E	287	3.2		
IDC	I	01 00 14 49.4–.62	45.00N	142.35E	292–11	3.5,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.6km az=141.3.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=40.0km s-min=17.1km az=170.0.

ISC	**I**	**01 17 21 59.8–2.1**	**42.63N–.10**	**144.94E–.05**	**35–4**		**22**	**0-5**
ISCJB	I	01 17 21 59.4–1.1	42.65N–.08	144.96E–.06	41–18			¶600327039
JMA	I	01 17 21 59.3–.10	42.67N	144.93E	49–1	3.1		
SKHL	I	01 17 22 00.0–1.1	42.58N	144.99E	40–4	4.2b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=5.5km az=158.9.

ISC	**I**	**02 10 38 50.3–.80**	**42.06N–.05**	**142.46E–.04**	**68–6**	**3.6b**	**40**	**0-71**
ISCJB	I	02 10 38 49.5–.41	42.06N–.05	142.46E–.04	75–3	3.5b		¶16394665
MOS	I	02 10 38 50.5–.66	42.09N	142.50E	90	3.9b		
JMA	I	02 10 38 50.0–.20	42.06N	142.46E	69–2	3.4		
IDC	I	02 10 38 51.6–2.2	42.08N	142.50E	80–19	3.6,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.3km az=151.9.
MOS Error ellipse: s-maj=21.2km s-min=11.6km az=68.3.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s14.00000°,δ87.00000°,λ101.00000°. NP2: ϕ_s120.00000°,δ11.00000°,λ16.00000°. Principal axes: T Plg47.0000°,Azm295.0000° ; N Plg11.0000°,Azm193.0000°; P Plg41.0000°,Azm94.0000°
IDC Error ellipse: s-maj=23.6km s-min=17.4km az=118.0.

ISC	**I**	**02 20 38 42.3–2.1**	**42.10N–.09**	**144.61E–.04**	**32–13**	**4.2b**	**46**	**1-85**
JMA	I	02 20 38 41.2–.10	42.02N	144.63E	57–1	3.9		¶16021232
ISCJB	I	02 20 38 42.0–1.1	42.09N–.08	144.66E–.06	46–8	4.1b		
SKHL	I	02 20 38 42.8–.30	42.04N	144.64E	58–3	5.0b		
MOS	I	02 20 38 44.9–.80	42.36N	144.62E	61	4.4b		
IDC	I	02 20 38 46.8–3.8	42.34N	144.63E	63–30	4.1,4.0		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=5.7km az=156.5.
MOS Error ellipse: s-maj=18.3km s-min=10.5km az=83.2.
IDC Error ellipse: s-maj=28.1km s-min=17.3km az=172.0.

ISC	**I**	**04 01 02 12.4–.79**	**45.53N–.09**	**142.58E–.09**	**350**	**3.1b**	**26**	**1-84**
ISCJB	I	04 01 02 11.6–.50	45.52N–.06	142.6E–.10	350	3.0b		¶17189375
JMA	I	04 01 02 12.4–.30	45.68N	142.51E	333–2	3.0		
IDC	I	04 01 02 13.6–3.3	46.38N	142.40E	309–44	3.5,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.4km az=148.7.
JMA Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=63.1km s-min=19.3km az=0.0.

ISC	**I**	**05 03 43 58.6–.43**	**45.86N–.03**	**142.70E–.04**	**328–4**	**4.5b**	**752**	**1-155**
NIED	I	05 03 43 00	45.70N	142.80E	320	4.4W		¶15905620
BJI	I	05 03 43 53.1	46.05N	143.25E	318	4.5b,4.5b		
SKHL	I	05 03 43 56.9–.90	45.80N	142.63E	330–26	5.1s,4.9b		
MOS	I	05 03 43 57.8–1.0	45.91N	142.60E	329	4.4b,4.9b		
ISCJB	I	05 03 43 57.8–.13	45.89N–.02	142.68E–.03	328–1	4.4b,4.9b		
IDC	I	05 03 43 58.3–.48	45.93N	142.68E	322–5	4.6,4.0		
JMA	I	05 03 43 58.1–.20	45.75N	142.76E	336–2	4.2,4.0		
NEIC	I	05 03 43 58.4–.33	45.94N	142.59E	321–3	4.5b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ37.00000°,λ145.00000°. NP2:ϕ_s171.00000°,δ70.00000°,λ58.00000°. $M_0$4.87000×10^{15}
MOS Error ellipse: s-maj=9.9km s-min=5.9km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=164.2.
IDC Error ellipse: s-maj=9.3km s-min=7.8km az=145.0.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=150.0.

ISC	**I**	**05 09 26 36.7–.71**	**43.77N–.06**	**145.82E–.04**	**136–5**	**3.6b**	**46**	**0-71**
ISCJB	I	05 09 26 35.8–.43	43.78N–.06	145.81E–.06	140–3	3.6b		¶16021255
MOS	I	05 09 26 35.6–1.3	43.98N	145.58E	139	3.9b		
SKHL	I	05 09 26 36.8–.60	43.75N	146.05E	147–5	4.7s,4.3b		
IDC	I	05 09 26 36.2–10	43.98N	145.64E	124–94	3.8,3.6		
JMA	I	05 09 26 37.4–.20	43.78N	145.80E	133–1	3.4,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.7km az=155.9.
MOS Error ellipse: s-maj=27.9km s-min=16.0km az=78.4.
IDC Error ellipse: s-maj=29.9km s-min=20.0km az=163.0.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.

ISC	**I**	**06 02 53 56.8–2.1**	**42.85N–.07**	**143.25E–.05**	**91–14**		**22**	**0-4**
ISCJB	I	06 02 53 56.2–1.1	42.85N–.06	143.27E–.06	94–9			¶600516100
SKHL	I	06 02 53 56.8–.20	45.15N	143.31E	131–7	5.4s,4.6b		
JMA	I	06 02 53 57.0–.10	42.87N	143.23E	88–1	3.0,4.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.3km az=160.3.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**I**	**06 21 12 27.6–.43**	**45.97N–.04**	**144.29E–.04**	**315–4**	**4.1b**	**251**	**1-152**
NIED	I	06 21 12 00	45.80N	144.20E	360	4.6W		¶15916094
BJI	I	06 21 12 25.5	46.07N	144.43E	319	4.7b,4.5b		
ISCJB	I	06 21 12 26.6–.20	46.01N–.03	144.28E–.04	315–2	4.1b,4.5b		
MOS	I	06 21 12 26.2–1.0	46.06N	144.21E	310	4.1b,4.5b		
SKHL	I	06 21 12 27.4–.20	46.01N	144.18E	328–7	5.3b,4.8s		
IDC	I	06 21 12 27.5–.63	46.08N	144.23E	310–6	4.5,4.0		
NEIC	I	06 21 12 27.7–.39	46.03N	144.25E	314–4	4.5b,4.0		
JMA	I	06 21 12 27.1–.30	45.79N	144.24E	332–3	4.4,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ20.00000°,λ-28.00000°. NP2:ϕ_s294.00000°,δ81.00000°,λ-108.00000°. $M_0$7.82000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=31.8.
MOS Error ellipse: s-maj=8.6km s-min=5.6km az=97.9.
IDC Error ellipse: s-maj=9.2km s-min=7.4km az=119.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=132.0.
JMA Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.

ISC	**I**	**07 15 16 29.2–.72**	**44.98N–.07**	**142.40E–.07**	**287–6**	**2.9b**	**38**	**0-72**
ISCJB	I	07 15 16 28.5–.43	45.03N–.07	142.41E–.09	290–4	2.9b		¶17189646
JMA	I	07 15 16 29.0–.20	45.08N	142.30E	286–2	3.0		
IDC	I	07 15 16 29.6–.59	45.11N	142.33E	282–11	3.6,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=10.1km az=41.2.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=31.0km s-min=15.0km az=164.0.

ISC	**I**	**08 07 47 47.3–.48**	**41.91N–.03**	**141.49E–.03**	**114–4**	**4.7b**	**214**	**0-153**
NIED	I	08 07 47 00	41.90N	141.50E	101	4.1W		**¶15990244**
ISCJB	I	08 07 47 46.5–.20	41.94N–.02	141.46E–.03	114–1	4.6b		
MOS	I	08 07 47 46.7–1.1	41.99N	141.51E	123	4.2b		
BJI	I	08 07 47 47.7	42.00N	141.40E	109	4.9b,4.7b		
JMA	I	08 07 47 47.1–.10	41.88N	141.50E	109–1	3.7,4.7b		
IDC	I	08 07 47 48.3–1.1	42.03N	141.40E	121–9	4.1,3.9		
NEIC	I	08 07 47 48.3–.48	41.99N	141.40E	116–4	4.8b,3.9		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ44.00000°,λ-127.00000°. NP2:ϕ_s55.00000°,δ56.00000°,λ-59.00000°. $M_0$1.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=140.3.
MOS Error ellipse: s-maj=9.8km s-min=7.6km az=91.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s62.00000°,δ56.00000°,λ-63.00000°. NP2: ϕ_s200.00000°,δ43.00000°,λ-123.00000°. Principal axes: T Plg7.0000°,Azm133.0000° ; N Plg22.0000°,Azm226.0000°; P Plg67.0000°,Azm27.0000°
IDC Error ellipse: s-maj=11.4km s-min=9.2km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=157.0. Felt at Misawa, Honshu.

ISC	**I**	**08 18 21 52.4–.47**	**42.58N–.03**	**142.16E–.03**	**129–4**	**4.6b**	**242**	**0-114**
NIED	I	08 18 21 00	42.60N	142.10E	110	4.2W		**¶15910777**
BJI	I	08 18 21 49.2	42.58N	142.42E	129	4.9b,4.7b		
MOS	I	08 18 21 51.4–.75	42.66N	142.14E	129	4.4b,4.7b		
ISCJB	I	08 18 21 51.2–.18	42.57N–.02	142.17E–.03	130–1	4.5b,4.7b		
NEIC	I	08 18 21 52.0–.42	42.59N	142.16E	124–4	4.7b,4.7b		
JMA	I	08 18 21 52.0–.20	42.61N	142.13E	132–2	4.1,4.7b		
IDC	I	08 18 21 53.2–.89	42.66N	142.12E	130–6	4.3,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ56.00000°,λ171.00000°. NP2:ϕ_s112.00000°,δ83.00000°,λ34.00000°. $M_0$1.91000×10^{15}
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=143.3.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.5km az=140.0. Recorded [1 JMA] in the Tomakomai area and in southwestern and south-central Hokkaido. Also recorded [1 JMA] in Aomori, Honshu.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s109.00000°,δ85.00000°,λ43.00000°. NP2: ϕ_s15.00000°,δ47.00000°,λ173.00000°. Principal axes: T Plg33.0000°,Azm341.0000° ; N Plg47.0000°,Azm114.0000°; P Plg25.0000°,Azm234.0000°
IDC Error ellipse: s-maj=11.8km s-min=9.0km az=143.0.

ISC	**I**	**09 12 42 31.0–.51**	**42.36N–.04**	**144.49E–.03**	**25–3**	**5.0b,4.6s**	**934**	**1-156**
NIED	I	09 12 42 00	42.30N	144.60E	23	4.7W,4.6s		**¶15910811**
IDC	I	09 12 42 27.1–.39	42.37N	144.43E	0	4.8,4.8		
BJI	I	09 12 42 30.9	42.31N	144.54E	40	5.2b,4.7b		
SKHL	I	09 12 42 30.6–.40	42.19N	144.60E	41–6	4.9b,4.4s		
MOS	I	09 12 42 31.1–.93	42.27N	144.44E	41	5.1b,4.4s		
JMA	I	09 12 42 31.0	42.34N	144.52E	31–2	4.7,4.4s		
ISCJB	I	09 12 42 31.4–.39	42.35N–.02	144.44E–.02	37–3	5.0b,4.6s		
NEIC	I	09 12 42 31.1–1.1	42.40N	144.38E	22–7	5.1b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ40.00000°,λ106.00000°. NP2:ϕ_s201.00000°,δ52.00000°,λ77.00000°. $M_0$1.14000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=9.8km az=145.0.
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.3km az=157.1.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=152.0. Recorded [2 JMA] in south-central Hokkaido and [1 JMA] in eastern Hokkaido.

ISC	**I**	**11 05 11 42.5–.55**	**42.61N–.03**	**142.15E–.03**	**123–4**	**4.3b**	**164**	**0-114**
NIED	I	11 05 11 00	42.60N	142.10E	122	4.2W		**¶15925803**
BJI	I	11 05 11 41.3	42.70N	142.39E	142	4.8b,4.7b		
MOS	I	11 05 11 41.8–.82	42.76N	142.12E	124	4.5b,4.7b		
ISCJB	I	11 05 11 41.8–.21	42.57N–.02	142.15E–.03	130–1	4.2b,4.7b		
IDC	I	11 05 11 42.2–1.4	42.79N	142.12E	109–12	4.2,3.9		
NEIC	I	11 05 11 42.1–.53	42.70N	142.11E	114–5	4.7b,3.9		
JMA	I	11 05 11 42.4–.20	42.60N	142.14E	133–2	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ66.00000°,λ22.00000°. NP2:ϕ_s19.00000°,δ70.00000°,λ155.00000°. $M_0$2.37000×10^{15}
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=103.8.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=137.6.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=148.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.2km az=116.0. Recorded [2 JMA] in south-central Hokkaido and [1 JMA] in southwestern Hokkaido. Also recorded [1 JMA] in Aomori, Honshu.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s108.00000°,δ78.00000°,λ14.00000°. NP2: ϕ_s16.00000°,δ77.00000°,λ168.00000°. Principal axes: T Plg18.0000°,Azm332.0000° ; N Plg72.0000°,Azm149.0000°; P Plg1.0000°,Azm242.0000°

ISC	**I**	**17 04 07 02.4–.66**	**43.47N–.06**	**145.23E–.04**	**131–5**	**3.8b**	**66**	**0-84**
NIED	I	17 04 07 00	43.50N	145.20E	145	3.7W		**¶16019228**
ISCJB	I	17 04 07 01.6–.35	43.51N–.05	145.22E–.05	136–2	3.7b		
MOS	I	17 04 07 02.1–.99	43.60N	145.17E	141	4.1b		
IDC	I	17 04 07 03.8–1.6	43.56N	145.13E	140–10	4.0,3.8		
SKHL	I	17 04 07 03.7–.30	43.58N	145.27E	135–2	5.3s,4.7b		
JMA	I	17 04 07 03.1–.10	43.50N	145.22E	130–1	3.6,4.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ28.00000°,λ18.00000°. NP2:ϕ_s73.00000°,δ82.00000°,λ117.00000°. $M_0$3.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.8km az=157.4.
MOS Error ellipse: s-maj=14.6km s-min=12.7km az=92.0.
IDC Error ellipse: s-maj=24.5km s-min=12.7km az=170.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**I**	**17 23 44 28.7–.85**	**43.51N–.07**	**144.06E–.05**	**137–6**	**3.5b**	**29**	**0-57**
ISCJB	I	17 23 44 27.7–.51	43.55N–.06	144.08E–.06	139–4	3.5b		**¶17190438**
JMA	I	17 23 44 28.7–.10	43.51N	144.03E	138–1	2.7		
IDC	I	17 23 44 33.1–.96	44.39N	143.70E	133–13	3.6,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.2km az=5.3.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=28.7km s-min=20.5km az=66.0.

ISC	**I**	**21 01 10 07.2–.76**	**45.05N–.08**	**142.65E–.08**	**277–7**	**3.0b**	**31**	**1-65**
ISCJB	I	21 01 10 06.3–.47	45.09N–.07	142.7E–.10	280–5	3.0b		**¶17190653**
JMA	I	21 01 10 06.4–.50	45.15N	142.57E	281–4	2.9		
IDC	I	21 01 10 07.5–.60	45.10N	142.59E	276–6	3.6,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=10.2km az=43.9.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=15.7km az=123.0.

ISC	**I**	**22 05 49 01.8–.48**	**42.35N–.03**	**142.97E–.03**	**56–4**	**4.9b,3.7s**	**545**	**0-152**
BJI	I	22 05 48 57.5	42.11N	143.33E	54	5.0b,4.8b		**¶15957580**
NIED	I	22 05 49 00	42.30N	143.00E	56	4.5W,4.8b		
MOS	I	22 05 49 00.8–.96	42.38N	142.86E	60	5.2b,4.8b		
ISCJB	I	22 05 49 01.1–.25	42.32N–.02	142.92E–.02	65–2	4.9b,4.8b		
JMA	I	22 05 49 02.4–.10	42.32N	143.00E	53–1	4.4,4.8b		
IDC	I	22 05 49 02.8–1.5	42.36N	142.95E	68–11	4.5,4.4		
NEIC	I	22 05 49 02.5–.32	42.36N	142.90E	62–3	5.1b,4.4		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ29.00000°,λ73.00000°. NP2:ϕ_s27.00000°,δ63.00000°,λ99.00000°. $M_0$6.47000×10^{15}
MOS Error ellipse: s-maj=6.0km s-min=4.2km az=100.1.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=153.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ66.00000°,λ83.00000°. NP2: ϕ_s221.00000°,δ25.00000°,λ106.00000°. Principal axes: T Plg68.0000°,Azm280.0000° ; N Plg7.0000°,Azm26.0000°; P Plg21.0000°,Azm119.0000°
IDC Error ellipse: s-maj=13.6km s-min=9.4km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=145.0. Felt at Obihiro. Recorded [2 JMA] in south-central Hokkaido and in southwestern Hokkaido. Also recorded [2 JMA] in Aomori, Honshu.

ISC	**II**	**01 09 21 43.7–.89**	**42.53N–.05**	**144.26E–.03**	**55–9**	**3.2b**	**57**	**0-67**
NIED	II	01 09 21 00	42.60N	144.20E	47	3.7W		**¶17191468**
IDC	II	01 09 21 37.6–1.2	42.51N	144.61E	0	3.6,3.6L		
MOS	II	01 09 21 42.6–1.2	42.43N	144.30E	64	4.3b,3.6L		
ISCJB	II	01 09 21 42.6–.45	42.51N–.04	144.27E–.04	62–5	3.2b,3.6L		
JMA	II	01 09 21 43.6–.10	42.58N	144.22E	63–2	3.7,3.6L		
SKHL	II	01 09 21 44.5–.40	42.63N	144.22E	79–5	4.8b,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ59.00000°,λ-16.00000°. NP2:ϕ_s308.00000°,δ76.00000°,λ-148.00000°. $M_0$3.39000×10^{14}
IDC Error ellipse: s-maj=38.2km s-min=23.7km az=115.0.
MOS Error ellipse: s-maj=25.8km s-min=10.4km az=62.7.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=150.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**II**	**01 09 37 05.5–.79**	**44.27N–.07**	**145.70E–.05**	**164–7**	**3.2b**	**40**	**0-56**
MOS	II	01 09 37 03.8–.95	44.01N	145.69E	180	4.1b		**¶17191469**
ISCJB	II	01 09 37 04.7–.48	44.26N–.07	145.69E–.06	167–5	3.3b		
SKHL	II	01 09 37 05.7–.30	44.39N	145.83E	152–2	4.7s,4.1b		
JMA	II	01 09 37 06.1–.30	44.29N	145.64E	160–2	2.9,4.1b		
IDC	II	01 09 37 07.1–2.7	44.55N	145.50E	162–23	3.5,3.2		

ISC Event type ke.
MOS Error ellipse: s-maj=30.4km s-min=26.8km az=53.4.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.8km az=169.8.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=100.0km s-min=21.1km az=167.0.

ISC	**II**	**02 23 10 01.3–1.7**	**42.77N–.09**	**144.99E–.05**	**46–15**		**21**	**0-4**
ISCJB	II	02 23 10 01.1–.99	42.80N–.07	144.99E–.06	50–11			**¶600524812**
JMA	II	02 23 10 01.7–.10	42.82N	144.97E	49–1	2.6		
SKHL	II	02 23 10 03.2–.10	42.60N	145.60E	60–5	4.1b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=5.4km az=157.2.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**II**	**03 06 27 28.2–.77**	**44.03N–.06**	**142.93E–.06**	**207–6**	**3.3b**	**38**	**0-68**
ISCJB	II	03 06 27 27.1–.46	44.00N–.05	142.96E–.07	211–3	3.1b		**¶17191577**
JMA	II	03 06 27 27.9–.20	44.10N	142.88E	208–2	3.4		
IDC	II	03 06 27 28.0–.60	44.03N	142.84E	202–3	3.4,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=8.1km az=173.8.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=15.6km az=111.0.

ISC	**II**	**03 17 26 45.9–1.9**	**43.35N–.08**	**145.39E–.05**	**112–11**		**25**	**0-4**
ISCJB	II	03 17 26 45.3–1.0	43.36N–.07	145.39E–.06	114–7			**¶600525103**
JMA	II	03 17 26 45.6–.10	43.39N	145.39E	116–1	2.9		
SKHL	II	03 17 26 45.9–.40	43.31N	145.38E	107–3	5.0s,4.4b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=5.5km az=153.7.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**II**	**03 20 53 44.1–.70**	**44.16N–.06**	**141.14E–.06**	**227–6**	**3.2b**	**39**	**0-73**
ISCJB	II	03 20 53 43.2–.41	44.16N–.06	141.15E–.07	232–3	3.2b		**¶17191618**
JMA	II	03 20 53 43.8–.20	44.18N	141.13E	230–2	3.2		
IDC	II	03 20 53 43.6–.63	44.16N	141.12E	221–6	3.6,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=8.3km az=160.2.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=14.8km az=132.0.

SKHL	**II**	**04 12 20 23.9–.10**	**42.52N**	**144.25E**	**113–2**	**4.5b**		**¶600774594**
ISC	**II**	**06 16 08 04.3–1.7**	**43.05N–.06**	**145.64E–.05**	**38–1**	**3.4b**	**35**	**0-45**
IDC	II	06 16 07 52.1–7.0	43.03N	146.86E	0	3.5,3.5b		**¶17191800**
NIED	II	06 16 08 00	43.10N	145.60E	53	3.6W,3.5b		
MOS	II	06 16 08 02.4–.70	43.00N	145.55E	40	4.0b,3.5b		
ISCJB	II	06 16 08 03.7–.73	43.07N–.05	145.64E–.05	49–6	3.3b,3.5b		
SKHL	II	06 16 08 04.2–.60	43.08N	145.42E	40–3	4.9b,3.5b		
JMA	II	06 16 08 04.6–.10	43.09N	145.61E	47–1	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=118.7km s-min=52.2km az=108.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ49.00000°,λ34.00000°. NP2:ϕ_s231.00000°,δ65.00000°,λ134.00000°. $M_0$3.31000×10^{14}
MOS Error ellipse: s-maj=35.1km s-min=17.2km az=66.3.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.0km az=151.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

JMA	**II**	**07 02 21 18.7–.40**	**43.92N**	**143.67E**	**193–4**	**2.0**		**¶600526452**
ISC	**II**	**07 20 12 07.0–1.2**	**41.91N–.07**	**144.73E–.07**	**38**	**3.6b**	**19**	**1-77**
IDC	II	07 20 11 57.9–5.2	41.67N	145.49E	0	4.3,4.3s		**¶17191877**
ISCJB	II	07 20 12 05.3–.00	41.93N–.06	144.76E–.07	38	4.4s,3.7b		
JMA	II	07 20 12 07.7	42.05N	144.59E	37–1	3.6,3.7b		
SKHL	II	07 20 12 20.5–.70	42.38N	145.26E	44–2	4.0b,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=97.5km s-min=33.1km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.5km az=142.5.

ISC	**II**	**15 01 23 39.7–.67**	**42.08N–.04**	**140.96E–.04**	**138–5**	**3.6b**	**62**	**0-74**
ISCJB	II	15 01 23 38.5–.32	42.09N–.03	140.94E–.04	142–2	3.6b		**¶17192271**
MOS	II	15 01 23 38.5–.97	42.09N	140.90E	143	3.8b		
IDC	II	15 01 23 38.1–1.8	42.03N	140.87E	125–13	3.8,3.6		
JMA	II	15 01 23 40.1–.10	42.09N	140.95E	136–1	3.0,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=143.7.
MOS Error ellipse: s-maj=13.3km s-min=9.0km az=81.5.
IDC Error ellipse: s-maj=20.4km s-min=12.7km az=162.0.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**II**	**15 19 35 47.4–1.6**	**43.47N–.07**	**145.99E–.05**	**58–11**		**21**	**0-4**
ISCJB	II	15 19 35 46.8–.93	43.48N–.06	145.98E–.06	62–8			**¶600529416**
JMA	II	15 19 35 47.1–.10	43.46N	145.96E	64–1	3.0		
SKHL	II	15 19 35 47.4–.10	43.44N	145.94E	53–1	3.9b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.3km az=149.8.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**II**	**17 21 20 51.4–.84**	**42.94N–.05**	**144.10E–.04**	**101–6**	**3.5b**	**38**	**0-70**
IDC	II	17 21 20 35.9–1.4	43.25N	145.27E	0	3.7,3.6		**¶17192445**
ISCJB	II	17 21 20 50.5–.47	42.94N–.04	144.08E–.04	106–3	3.5b,3.6		
JMA	II	17 21 20 51.8–.10	42.98N	144.10E	100–1	3.2,3.6		
SKHL	II	17 21 20 53.6–.60	42.64N	144.45E	35–1	4.6b,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=27.2km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.8km az=153.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**II**	**19 19 34 01.4–.83**	**41.59N–.04**	**141.94E–.04**	**65–7**	**3.7b**	**59**	**1-79**
ISCJB	II	19 19 34 00.6–.34	41.59N–.03	141.93E–.05	71–3	3.6b		**¶17192547**
NIED	II	19 19 34 00	41.60N	141.90E	62	3.8W		
JMA	II	19 19 34 01.2–.10	41.58N	141.92E	65–2	3.6		
IDC	II	19 19 34 02.2–1.7	41.61N	141.93E	75–14	3.7,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=33.8.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ22.00000°,λ102.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ85.00000°. $M_0$6.22000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s18.00000°,δ87.00000°,λ82.00000°. NP2: ϕ_s269.00000°,δ8.00000°,λ161.00000°. Principal axes: T Plg47.0000°,Azm280.0000° ; N Plg8.0000°,Azm18.0000°; P Plg42.0000°,Azm115.0000°
IDC Error ellipse: s-maj=18.4km s-min=11.1km az=124.0.

ISC	**II**	**22 03 50 53.7–.91**	**43.07N–.05**	**145.91E–.04**	**46–8**	**4.2b**	**109**	**0-84**
NIED	II	22 03 50 00	43.00N	145.90E	41	4.0W		**¶16168900**
IDC	II	22 03 50 47.0–.78	43.13N	145.93E	0	4.3,4.1		
ISCJB	II	22 03 50 52.4–.57	43.00N–.04	145.92E–.05	54–4	4.1b,4.1s		
MOS	II	22 03 50 52.5–1.2	43.00N	145.87E	55	4.4b,4.1s		
NEIC	II	22 03 50 52.7–.93	43.06N	146.02E	42–8	4.3b,4.1s		

SKHL II 22 03 50 53.9–.50 43.08N 145.78E 56–3 4.9b,4.1s
JMA II 22 03 50 53.1–.10 43.00N 145.89E 48–1 4.2,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ42.00000°,λ47.00000°. NP2:ϕ_s58.00000°,δ61.00000°,λ121.00000°. $M_0$1.30000×10^{15}
IDC Error ellipse: s-maj=22.0km s-min=15.7km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.3km az=141.1.
MOS Error ellipse: s-maj=10.3km s-min=6.5km az=83.3.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.4km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC II 28 19 36 02.1–1.3 42.88N–.05 144.11E–.03 40–11 29 0-4
ISCJB II 28 19 36 01.6–.62 42.89N–.04 144.13E–.04 44–9 **¶600535207**
JMA II 28 19 36 02.0 42.93N 144.10E 43–1 2.9
SKHL II 28 19 36 03.8–.10 42.60N 144.55E 47–3 4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.3km az=157.2.
ISC III 03 00 39 15.6–1.4 44.62N–.04 145.38E–.03 11–12 18 1-3
NIED III 03 00 39 00 44.60N 145.30E 8 3.6W **¶600535963**
ISCJB III 03 00 39 16.5–1.9 44.66N–.03 145.34E–.05 14–13 3.6W
JMA III 03 00 39 17.6–.20 44.62N 145.31E 14–2 3.5
SKHL III 03 00 39 18.4–.50 44.56N 145.23E 30–3 4.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ40.00000°,λ130.00000°. NP2:ϕ_s36.00000°,δ60.00000°,λ62.00000°. $M_0$3.10000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=5.7km az=33.4.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC III 04 09 48 57.8–.59 42.64N–.04 141.40E–.03 118–5 4.2b 111 0-87
NIED III 04 09 48 00 42.60N 141.40E 101 4.1W **¶16442183**
ISCJB III 04 09 48 56.9–.23 42.64N–.03 141.40E–.04 125–2 4.2b
MOS III 04 09 48 56.7–1.2 42.69N 141.25E 121 4.2b
IDC III 04 09 48 57.9–.95 42.63N 141.38E 118–7 4.2,4.0
NEIC III 04 09 48 57.9–.37 42.63N 141.39E 120–4 4.5b,4.0
BJI III 04 09 48 58.0 42.50N 141.10E 112 5.0b,4.7b
JMA III 04 09 48 58.3–.10 42.63N 141.43E 115–1 3.7,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ14.00000°,λ144.00000°. NP2:ϕ_s217.00000°,δ82.00000°,λ79.00000°. $M_0$1.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.7km az=140.7.
MOS Error ellipse: s-maj=9.2km s-min=6.0km az=92.6.
IDC Error ellipse: s-maj=12.2km s-min=9.5km az=134.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s38.00000°,δ87.00000°,λ-87.00000°. NP2: ϕ_s169.00000°,δ5.00000°,λ-139.00000°. Principal axes: T Plg42.0000°,Azm125.0000° ; N Plg3.0000°,Azm218.0000°; P Plg48.0000°,Azm312.0000°
ISC III 04 23 41 22.4–.61 45.53N–.06 142.47E–.07 311–6 3.5b 56 0-84
ISCJB III 04 23 41 21.7–.31 45.57N–.04 142.39E–.08 316–3 3.4b **¶17193250**
JMA III 04 23 41 22.2–.20 45.55N 142.43E 317–2 3.2
SKHL III 04 23 41 22.0–.80 45.53N 142.32E 305–29 4.7s,4.2b
IDC III 04 23 41 23.0–.47 45.61N 142.34E 311–11 3.9,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.3km az=165.8.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=25.7km s-min=12.1km az=169.0.
ISC III 07 11 21 06.9–.89 42.29N–.07 143.11E–.04 65 3.9b 31 0-86
NIED III 07 11 21 00 42.30N 143.10E 62 3.7W **¶17193410**
MOS III 07 11 21 05.7–1.0 42.28N 143.05E 66 4.2b
ISCJB III 07 11 21 05.8–.54 42.32N–.05 143.10E–.05 65 3.6b
JMA III 07 11 21 07.2–.10 42.35N 143.12E 49–1 3.5
IDC III 07 11 21 07.8–2.7 42.35N 143.03E 66–21 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ17.00000°,λ128.00000°. NP2:ϕ_s26.00000°,δ76.00000°,λ79.00000°. $M_0$3.43000×10^{14}
MOS Error ellipse: s-maj=18.2km s-min=11.1km az=74.7.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.7km az=158.7.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=30.3km s-min=22.9km az=154.0.
ISC III 07 21 10 56.7–.97 41.59N–.04 141.13E–.05 106–7 3.6b 29 0-62
ISCJB III 07 21 10 55.8–.57 41.59N–.04 141.11E–.07 111–4 3.5b **¶17193433**
IDC III 07 21 10 56.3–3.0 41.57N 141.20E 105–33 3.6,3.4
JMA III 07 21 10 57.2–.10 41.60N 141.17E 101–1 2.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.0km az=179.2.
IDC Error ellipse: s-maj=43.6km s-min=27.0km az=48.0.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
JMA III 11 06 40 44.8–.10 42.10N 140.42E 4–1 1.9
¶602653687
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
SKHL III 11 10 04 49.4–.50 42.79N 146.00E 39–9 4.9b
¶600847853
SKHL III 11 10 26 55.9–.30 42.11N 145.70E 44–1 4.3b
¶600847854
JMA III 12 03 26 04.2 43.43N 143.07E 3–1 0.8
¶603049550
IDC III 13 00 59 33.2–14 41.25N 141.25E 0 4.1,3.9
¶16449577
IDC Error ellipse: s-maj=484.2km s-min=35.6km az=56.0.
SKHL III 13 13 03 18.7–.90 42.87N 145.97E 40–3 4.5b
¶600847856
JMA III 14 00 25 14.5–.10 41.76N 142.80E 51–2 3.6
¶602660337
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
JMA III 14 23 21 40.0 42.00N 139.25E 12 1.0
¶16338008
SKHL III 15 13 43 11.8–.80 42.45N 145.69E 42–4 4.0b
¶600847859
JMA III 16 06 55 53.7 41.48N 140.21E 5–1 0.1
¶603049849
ISC III 19 08 48 36.7–4.8 41.9N–.20 145.3E–.10 38 7 1-5
NIED III 19 08 48 00 41.90N 145.60E 20 3.7W **¶600557118**
JMA III 19 08 48 33.5–.60 41.88N 145.60E 18–3 4.0
SKHL III 19 08 48 45.9–.40 42.15N 145.78E 41–3 4.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ34.00000°,λ132.00000°. NP2:ϕ_s9.00000°,δ65.00000°,λ66.00000°. $M_0$4.48000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISC III 20 20 27 36.1–.84 45.84N–.07 143.51E–.10 350 3.1b 31 1-67
ISCJB III 20 20 27 35.5–.49 45.92N–.05 143.5E–.10 350 3.0b **¶17197545**
JMA III 20 20 27 37.9–.20 45.87N 143.38E 337 3.3
IDC III 20 20 27 37.8–2.5 45.97N 143.40E 362–24 3.7,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.5km az=167.2.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=39.8km s-min=20.9km az=134.0.
ISC III 24 22 56 27.3–1.7 42.95N–.06 143.90E–.04 104–11 32 0-6
ISCJB III 24 22 56 27.4–.87 42.97N–.05 143.89E–.04 100–7 **¶600565694**
JMA III 24 22 56 27.4–.10 42.99N 143.86E 104–1 3.4
SKHL III 24 22 56 28.3–.40 42.41N 144.36E 48–6 4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.5km az=160.8.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC III 25 09 23 04.2–4.0 41.18N 142.89E 135–37 3.6,3.4
¶17198475
IDC Error ellipse: s-maj=35.1km s-min=21.0km az=95.0.
ISC III 25 10 17 35.5–1.4 41.15N–.03 140.92E–.06 9–11 3.9b 21 0-61
ISCJB III 25 10 17 35.7–.53 41.15N–.03 140.89E–.05 14–4 3.7b **¶17198482**
JMA III 25 10 17 36.2 41.15N 140.87E 12–1 3.4
IDC III 25 10 17 42.1–4.2 41.13N 140.48E 66–46 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=1.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s191.00000°,δ60.00000°,λ98.00000°. NP2:ϕ_s355.00000°,δ31.00000°,λ77.00000°. Principal axes: T Plg74.0000°,Azm122.0000°; N Plg7.0000°,Azm7.0000°; P Plg14.0000° ,Azm275.0000°
IDC Error ellipse: s-maj=61.2km s-min=20.7km az=103.0.
ISC III 27 03 46 30.6–.78 42.96N–.05 145.48E–.04 40–6 4.2b 77 0-84
NIED III 27 03 46 00 43.00N 145.50E 44 3.9W **¶16459611**
IDC III 27 03 46 25.2–.85 43.01N 145.51E 0 4.2,4.0
MOS III 27 03 46 28.9–.79 42.88N 145.40E 44 4.4b,4.0
ISCJB III 27 03 46 29.7–.56 42.91N–.05 145.50E–.06 52–4 4.1b,4.0
JMA III 27 03 46 30.6–.10 42.93N 145.49E 45–1 3.8,4.0
SKHL III 27 03 46 31.3–.40 42.91N 145.60E 68–4 4.3b,4.0
NEIC III 27 03 46 31.5–1.1 42.91N 145.48E 50–11 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ23.00000°,λ106.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ83.00000°. $M_0$9.38000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=16.2km az=155.0.
MOS Error ellipse: s-maj=14.6km s-min=9.0km az=76.4.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=139.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.0km az=163.0.
ISC III 28 22 12 03.8–.75 42.33N–.06 143.01E–.05 62–6 3.8b 33 0-86
NIED III 28 22 12 00 42.30N 143.00E 56 3.8W **¶17199003**
ISCJB III 28 22 12 02.8–.50 42.31N–.06 143.02E–.06 70–3 3.7b
JMA III 28 22 12 04.3–.10 42.35N 142.99E 55–1 3.6
IDC III 28 22 12 07.3–2.7 42.31N 142.89E 95–25 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ22.00000°,λ123.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ77.00000°. $M_0$6.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=158.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=18.7km az=112.0.
ISC III 30 13 58 18.3–.83 42.25N–.04 142.58E–.04 30–6 4.0b 49 0-86
NIED III 30 13 58 00 42.30N 142.60E 35 4.0W **¶602703283**
IDC III 30 13 58 13.9–.70 42.31N 142.71E 0 4.0,3.8
ISCJB III 30 13 58 17.9–.40 42.23N–.04 142.60E–.05 40–4 3.9b,3.7s
JMA III 30 13 58 18.7–.20 42.32N 142.61E 27–2 3.9,3.7s
MOS III 30 13 58 19.0–1.7 42.14N 142.81E 57 4.4b,3.7s
NEIC III 30 13 58 20.1–.79 42.19N 142.83E 48–9 4.2b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ64.00000°,λ-6.00000°. NP2:ϕ_s8.00000°,δ85.00000°,λ-154.00000°. $M_0$9.72000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=15.6km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.5km az=161.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s178.00000°,δ87.00000°,λ154.00000°. NP2: ϕ_s270.00000°,δ64.00000°,λ3.00000°. Principal axes: T Plg20.0000°,Azm131.0000° ; N Plg64.0000°,Azm353.0000°; P Plg16.0000°,Azm227.0000°
MOS Error ellipse: s-maj=14.4km s-min=7.8km az=71.1.
NEIC Event type fe. Error ellipse: s-maj=13.5km s-min=9.5km az=123.0. Recorded [2 JMA] in southern Hokkaido.
IDC IV 01 16 50 26.6–21 42.09N 144.66E 0 3.8,3.7b
¶17199445
IDC Error ellipse: s-maj=550.6km s-min=76.3km az=158.0.
ISC IV 03 22 57 25.6–.61 44.13N–.05 141.95E–.05 223–5 3.5b 55 0-72
IDC IV 03 22 57 23.9–1.9 44.21N 142.05E 199–19 4.0,3.6 **¶17199713**
ISCJB IV 03 22 57 24.6–.32 44.15N–.04 141.95E–.06 226–2 3.5b,3.6
JMA IV 03 22 57 25.3–.20 44.20N 141.91E 225–2 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=17.7km s-min=12.2km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.2km az=35.5.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 03 23 17 27.7–.62 43.90N–.06 145.74E–.04 121–5 3.8b 73 0-83
ISCJB IV 03 23 17 26.9–.32 43.87N–.05 145.76E–.05 127–2 3.8b **¶16455837**
MOS IV 03 23 17 26.6–1.1 44.03N 145.63E 125 3.9b
IDC IV 03 23 17 27.7–2.8 44.05N 145.64E 115–25 3.9,3.7
SKHL IV 03 23 17 27.8–.20 43.78N 145.84E 124–4 5.5s,5.0b
JMA IV 03 23 17 28.2–.20 43.91N 145.76E 117–2 3.7,5.0b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.9km az=155.5.
MOS Error ellipse: s-maj=17.1km s-min=11.4km az=74.4.
IDC Error ellipse: s-maj=15.9km s-min=12.7km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 05 12 44 58.0–.59 45.24N–.06 141.70E–.07 290–6 3.4b 55 0-85
ISCJB IV 05 12 44 57.3–.29 45.30N–.04 141.63E–.07 294–3 3.4b **¶17199894**
IDC IV 05 12 44 57.5–1.7 45.21N 141.68E 285–18 3.9,3.4
JMA IV 05 12 44 58.1–.20 45.32N 141.71E 291–2 3.3,3.4
SKHL IV 05 12 44 58.7–.40 45.42N 141.56E 306–30 4.6s,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.4km az=162.7.
IDC Error ellipse: s-maj=23.1km s-min=10.9km az=166.0.
JMA Error ellipse: s-maj=2.2km s-min=2.3km az=-1.0.
ISC IV 07 02 02 21.2–1.0 42.21N–.07 144.46E–.05 40–8 4.0b,3.5s 75 1-85
NIED IV 07 02 02 00 42.20N 144.50E 32 4.3W,3.5s **¶16506237**
IDC IV 07 02 02 16.0–.92 42.33N 144.34E 0 4.1,3.9
ISCJB IV 07 02 02 19.2–.60 42.12N–.05 144.52E–.05 46–5 4.0b,3.5s
MOS IV 07 02 02 19.4–.90 42.09N 144.46E 49 4.2b,3.5s
NEIC IV 07 02 02 21.0–1.5 42.21N 144.44E 38–14 4.5b,3.5s
JMA IV 07 02 02 20.2 42.22N 144.50E 39–1 4.3,3.5s
SKHL IV 07 02 02 21.4–1.1 42.17N 144.46E 60–3 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ26.00000°,λ126.00000°. NP2:ϕ_s42.00000°,δ69.00000°,λ74.00000°. $M_0$2.78000×10^{15}
IDC Error ellipse: s-maj=24.3km s-min=18.0km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.0km az=142.2.
MOS Error ellipse: s-maj=13.7km s-min=8.5km az=80.1.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=12.5km az=109.0.
JMA IV 07 04 18 39.1 42.22N 144.51E 40–1 3.6
NIED IV 07 04 18 00 42.20N 144.50E 20 3.7W **¶600579731**
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s315.00000°,δ41.00000°,λ-105.00000°. NP2:ϕ_s154.00000°,δ51.00000°,λ-78.00000°. $M_0$3.65000×10^{14}
ISC IV 08 23 24 28.4–1.8 43.01N–.10 145.79E–.06 42–17 20 0-4
ISCJB IV 08 23 24 28.2–1.1 43.05N–.08 145.78E–.07 49–10 **¶600581445**
JMA IV 08 23 24 28.5–.10 43.05N 145.75E 50–1 3.7
SKHL IV 08 23 24 28.9–.30 43.04N 145.81E 33–1 4.5b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=5.5km az=151.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC IV 10 17 19 52.3–1.8 42.95N–.09 145.33E–.05 76–12 23 0-4
ISCJB IV 10 17 19 51.7–1.0 42.99N–.07 145.31E–.06 81–8 **¶600582957**
JMA IV 10 17 19 51.8–.10 42.99N 145.30E 85–1 3.1
SKHL IV 10 17 19 52.8–.10 42.87N 145.39E 61–1 4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=5.3km az=153.9.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC IV 10 19 27 05.1–.90 43.07N–.07 145.77E–.04 87–6 3.6b 47 0-70
IDC IV 10 19 26 54.0–1.3 42.99N 145.80E 0 3.8,3.6 **¶17200495**
MOS IV 10 19 27 03.7–.88 42.99N 145.74E 97 3.8b,3.6
ISCJB IV 10 19 27 04.4–.62 43.09N–.06 145.78E–.05 95–3 3.6b,3.6
JMA IV 10 19 27 06.3–.10 43.12N 145.72E 84–1 3.6,3.6
SKHL IV 10 19 27 06.4–.20 43.21N 145.79E 100–1 5.4s,4.9b
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=23.6km az=157.0.
MOS Error ellipse: s-maj=24.3km s-min=12.6km az=79.5.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.1km az=154.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC IV 11 08 10 15.4–.60 42.60N–.04 143.41E–.04 88–5 4.3b 91 0-114
NIED IV 11 08 10 00 42.70N 143.40E 77 4.0W **¶16505324**
IDC IV 11 08 10 14.8–2.3 42.73N 143.37E 75–22 4.3,4.1
NEIC IV 11 08 10 15.0–.48 42.69N 143.41E 79–5 4.7b,4.1
MOS IV 11 08 10 14.5–1.2 42.68N 143.30E 90 4.4b,4.1
ISCJB IV 11 08 10 15.0–.31 42.63N–.04 143.42E–.04 99–2 4.2b,4.1
JMA IV 11 08 10 17.1–.10 42.67N 143.33E 85–1 3.7,4.1

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ32.00000°,λ14.00000°. NP2:ϕ_s45.00000°,δ83.00000°,λ121.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.6km az=154.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=128.0.
MOS Error ellipse: s-maj=11.4km s-min=6.8km az=74.5.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=150.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s45.00000°,δ77.00000°,λ125.00000°. NP2: ϕ_s153.00000°,δ37.00000°,λ21.00000°. Principal axes: T Plg46.0000°,Azm351.0000° ; N Plg34.0000°,Azm217.0000°; P Plg24.0000°,Azm109.0000°

JMA	**IV**	**11 12 10 07.4–.10**	**41.87N**	**140.87E**	**8–3**	**0.8**		
								¶600583645

JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

IDC	**IV**	**12 05 53 11.8–6.4**	**41.49N**	**139.29E**	**0**	**3.6,3.6**		
								¶17200737

IDC Error ellipse: s-maj=148.0km s-min=35.0km az=71.0.

ISC	**IV**	**12 08 15 08.5–.64**	**45.70N–.07**	**143.36E–.08**	**332**	**3.2b**	**34**	**1-84**
ISCJB	IV	12 08 15 08.0–.41	45.80N–.05	143.40E–.09	332	3.1b		**¶17200762**
JMA	IV	12 08 15 08.3–.20	45.80N	143.41E	337	3.4		
IDC	IV	12 08 15 09.7–2.1	45.94N	143.20E	334–25	3.5,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.6km az=178.0.
JMA Error ellipse: s-maj=4.4km s-min=4.7km az=-1.0.
IDC Error ellipse: s-maj=26.1km s-min=17.4km az=165.0.

ISC	**IV**	**13 03 34 31.0–2.2**	**42.7N–.10**	**145.69E–.06**	**32–12**		**21**	**1-8**
NIED	IV	13 03 34 00	42.80N	145.60E	47	3.6W		**¶600586158**
JMA	IV	13 03 34 31.8–.10	42.81N	145.64E	45–1	3.5		
SKHL	IV	13 03 34 32.7–.20	42.78N	145.77E	40–2	4.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ76.00000°,λ175.00000°. NP2:ϕ_s340.00000°,δ85.00000°,λ14.00000°. $M_0$2.85000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

JMA	**IV**	**14 16 43 36.4–.10**	**41.84N**	**142.69E**	**49–2**	**2.9**		
								¶600587778

JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**IV**	**17 19 48 31.1–.82**	**42.76N–.05**	**143.23E–.05**	**113**	**3.5b**	**31**	**0-64**
ISCJB	IV	17 19 48 30.4–.43	42.77N–.05	143.24E–.06	113	3.5b		**¶17201350**
JMA	IV	17 19 48 31.8–.10	42.78N	143.18E	103–1	3.0		
IDC	IV	17 19 48 33.0–.93	45.38N	142.58E	0	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.3km az=146.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=23.5km s-min=17.0km az=94.0.

ISC	**IV**	**18 02 23 59.3–.67**	**43.78N–.07**	**143.55E–.05**	**173–6**	**3.4b**	**38**	**0-85**
ISCJB	IV	18 02 23 58.3–.35	43.76N–.06	143.57E–.07	177–3	3.4b		**¶17201382**
JMA	IV	18 02 23 59.1–.20	43.80N	143.52E	176–2	3.4		
IDC	IV	18 02 23 59.7–.83	43.86N	143.43E	174–7	3.6,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.9km az=154.5.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=13.5km az=115.0.

ISC	**IV**	**18 02 31 33.7–1.3**	**41.70N–.09**	**143.85E–.09**	**27**	**3.7b**	**18**	**1-86**
NIED	IV	18 02 31 00	41.70N	143.80E	26	3.8W		**¶17201385**
IDC	IV	18 02 31 24.8–3.3	40.82N	143.89E	0	3.8,3.7		
JMA	IV	18 02 31 34.2–.30	41.67N	143.78E	50–4	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ29.00000°,λ133.00000°. NP2:ϕ_s21.00000°,δ69.00000°,λ69.00000°. $M_0$6.38000×10^{14}
IDC Error ellipse: s-maj=76.6km s-min=27.8km az=168.0.
JMA Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.

ISC	**IV**	**18 17 26 06.2–.79**	**41.48N–.04**	**142.06E–.04**	**59–7**	**4.3b,3.6s**	**109**	**1-89**
NIED	IV	18 17 26 00	41.50N	142.00E	56	4.3W,3.6s		**¶16505427**
MOS	IV	18 17 26 03.0–2.2	41.59N	141.93E	33	4.6b,3.6s		
ISCJB	IV	18 17 26 05.5–.33	41.50N–.03	142.04E–.04	68–2	4.1b,3.6s		
JMA	IV	18 17 26 06.2–.10	41.48N	142.01E	63–2	4.0,3.6s		
IDC	IV	18 17 26 07.8–1.6	41.46N	142.00E	75–13	4.1,4.0		
NEIC	IV	18 17 26 07.5–.48	41.47N	142.09E	74–5	4.5b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ40.00000°,λ52.00000°. NP2:ϕ_s16.00000°,δ60.00000°,λ117.00000°. $M_0$2.83000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=90.9.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=139.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ83.00000°,λ98.00000°. NP2: ϕ_s145.00000°,δ10.00000°,λ40.00000°. Principal axes: T Plg51.0000°,Azm294.0000° ; N Plg8.0000°,Azm194.0000°; P Plg38.0000°,Azm98.0000°
IDC Error ellipse: s-maj=15.5km s-min=10.7km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=122.0. Recorded [2 JMA] in Aomori, Honshu.

ISC	**IV**	**19 17 08 20.8–.84**	**42.28N–.04**	**142.53E–.04**	**67–7**	**3.4b**	**32**	**0-65**
ISCJB	IV	19 17 08 20.0–.51	42.25N–.04	142.54E–.05	77–4	3.4b		**¶17201524**
JMA	IV	19 17 08 20.9–.20	42.32N	142.56E	70–2	3.0		
IDC	IV	19 17 08 22.1–2.2	42.32N	142.75E	81–20	3.6,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.2km az=178.4.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=40.0km s-min=14.2km az=107.0.

ISC	**IV**	**22 08 20 33.6–1.6**	**43.04N–.07**	**145.03E–.05**	**54–12**		**21**	**0-4**
ISCJB	IV	22 08 20 33.1–.88	43.03N–.06	145.05E–.05	55–9			**¶600595952**
JMA	IV	22 08 20 33.5–.10	43.06N	145.02E	60–1	3.1		
SKHL	IV	22 08 20 34.5–.50	42.98N	145.15E	39–3	4.2b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.1km az=153.0.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**IV**	**24 00 45 45.5–1.1**	**44.37N–.09**	**142.5E–.10**	**232–8**		**19**	**0-57**
ISCJB	IV	24 00 45 44.5–.80	44.33N–.08	142.5E–.10	239–7	2.7b		**¶17201918**
JMA	IV	24 00 45 45.0–.30	44.45N	142.43E	236–3	3.0		
IDC	IV	24 00 45 46.1–1.0	44.56N	142.49E	223–10	3.4,2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=11.3km az=30.2.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=44.5km s-min=23.5km az=144.0.

ISC	**IV**	**25 23 26 34.7–.39**	**42.06N–.04**	**142.57E–.03**	**67–3**	**4.8b**	**626**	**0-148**
NIED	IV	25 23 26 00	42.00N	142.60E	59	4.7W		**¶17202090**
BJI	IV	25 23 26 30.5	41.93N	142.74E	62	4.9b,4.9b		
MOS	IV	25 23 26 33.5–1.0	42.09N	142.50E	66	5.2b,4.9b		
ISCJB	IV	25 23 26 33.5–.24	42.05N–.02	142.51E–.03	65–2	4.7b,4.9b		
JMA	IV	25 23 26 34.1–.10	42.02N	142.59E	61–2	4.6,4.9b		
NEIC	IV	25 23 26 35.2–.43	42.05N	142.47E	68–4	4.8b,4.9b		
IDC	IV	25 23 26 36.4–1.3	42.09N	142.53E	80–10	4.7,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ28.00000°,λ94.00000°. NP2:ϕ_s26.00000°,δ62.00000°,λ88.00000°. $M_0$1.35000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.1km az=98.8.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=145.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s25.00000°,δ67.00000°,λ91.00000°. NP2: ϕ_s202.00000°,δ23.00000°,λ87.00000°. Principal axes: T Plg68.0000°,Azm297.0000° ; N Plg1.0000°,Azm204.0000°; P Plg22.0000°,Azm114.0000°
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=147.0. Recorded [2 JMA] in southern and southwestern Hokkaido. Also recorded [2 JMA] in Aomori, Honshu.
IDC Error ellipse: s-maj=11.6km s-min=8.2km az=123.0.

ISC	**IV**	**26 05 51 46.7–.61**	**45.12N–.07**	**141.59E–.07**	**290–6**	**3.6b**	**47**	**0-85**
ISCJB	IV	26 05 51 45.9–.31	45.18N–.06	141.55E–.08	291–3	3.5b		**¶17202112**
IDC	IV	26 05 51 46.6–.45	45.22N	141.51E	284–5	4.0,3.5		
JMA	IV	26 05 51 46.2–.20	45.20N	141.53E	290–2	3.7,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=8.7km az=166.2.
IDC Error ellipse: s-maj=13.2km s-min=10.8km az=169.0.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.

ISC	**IV**	**28 02 26 23.9–.96**	**41.77N–.08**	**144.37E–.08**	**34**	**3.9b**	**27**	**1-72**
NIED	IV	28 02 26 00	41.70N	144.30E	23	4.1W		**¶16577907**
IDC	IV	28 02 26 19.6–1.1	41.48N	143.84E	0	4.0,3.9		
JMA	IV	28 02 26 23.2–.30	41.68N	144.28E	28–3	3.9,3.9		
NEIC	IV	28 02 26 24.5–.82	41.46N	143.95E	35	4.2b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ31.00000°,λ162.00000°. NP2:ϕ_s13.00000°,δ81.00000°,λ60.00000°. $M_0$1.37000×10^{15}
IDC Error ellipse: s-maj=25.0km s-min=22.0km az=107.0.
JMA Error ellipse: s-maj=4.4km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=13.3km az=112.0.

ISC	**IV**	**28 10 42 44.4–1.3**	**42.55N–.06**	**145.08E–.04**	**42–11**	**4.1b**	**74**	**1-92**
NIED	IV	28 10 42 00	42.60N	145.10E	26	4.0W		**¶16649522**
JMA	IV	28 10 42 43.4	42.53N	145.08E	53–1	4.2		
MOS	IV	28 10 42 43.3–1.3	42.52N	144.99E	53	4.3b		
ISCJB	IV	28 10 42 44.0–.67	42.57N–.05	145.06E–.05	54–5	4.6s,4.0b		
NEIC	IV	28 10 42 45.0–1.1	42.52N	145.00E	49–10	4.4b,4.0b		
SKHL	IV	28 10 42 44.4–.40	42.53N	145.06E	58–3	4.5b,4.0b		
IDC	IV	28 10 42 46.3–2.4	42.43N	144.99E	64–19	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ58.00000°,λ-165.00000°. NP2:ϕ_s303.00000°,δ77.00000°,λ-33.00000°. $M_0$1.16000×10^{15}
JMA Event type fe.
MOS Error ellipse: s-maj=14.3km s-min=9.3km az=78.1.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.4km az=151.7.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=9.5km az=138.0. Recorded [1 JMA] in eastern and southeastern Hokkaido.
IDC Error ellipse: s-maj=16.8km s-min=16.3km az=134.0.

ISC	**IV**	**29 00 00 00.7–1.5**	**42.13N–.05**	**139.18E–.04**	**13–9**	**4.0b**	**41**	**0-88**
ISCJB	IV	28 23 59 59.9–.81	42.16N–.05	139.10E–.05	19–7	4.2s,3.9b		**¶600602068**
NIED	IV	29 00 00 00	42.20N	139.30E	8	4.0W,3.9b		
JMA	IV	29 00 00 01.5–.10	42.11N	139.20E	18–1	3.9,3.9b		
IDC	IV	29 00 00 03.6–3.8	42.11N	139.12E	33–29	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.5km az=157.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ23.00000°,λ53.00000°. NP2:ϕ_s42.00000°,δ72.00000°,λ104.00000°. $M_0$1.14000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC Error ellipse: s-maj=16.0km s-min=12.8km az=144.0.

JMA	**IV**	**29 10 20 43.8–.10**	**41.98N**	**142.88E**	**49–1**	**2.5**		
								¶600602408

JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**IV**	**30 10 31 05.3–.48**	**45.71N–.04**	**143.27E–.05**	**321–5**	**3.9b**	**171**	**1-90**
MOS	IV	30 10 31 04.4–.81	45.82N	143.19E	321	3.8b		**¶16485920**
ISCJB	IV	30 10 31 04.4–.17	45.73N–.03	143.29E–.04	324–2	3.8b		
JMA	IV	30 10 31 05.1–.20	45.69N	143.29E	325–2	4.2		
IDC	IV	30 10 31 05.4–.52	45.86N	143.17E	316–6	4.2,3.6		
SKHL	IV	30 10 31 05.8–.80	45.74N	143.31E	324–16	4.8b,4.4s		
NEIC	IV	30 10 31 05.3–.33	45.75N	143.27E	320–4	4.1b,4.4s		

ISC Event type se.
MOS Error ellipse: s-maj=10.4km s-min=6.8km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=22.3.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=9.9km s-min=9.2km az=151.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.2km az=160.0.

ISC	**V**	**02 06 09 34.0–1.5**	**42.98N–.08**	**145.52E–.04**	**32–9**	**4.0b**	**45**	**0-71**
NIED	V	02 06 09 00	42.90N	145.50E	11	3.8W		**¶16577952**
MOS	V	02 06 09 34.5–1.2	42.92N	145.62E	59	4.2b		
ISCJB	V	02 06 09 34.2–.90	42.93N–.08	145.52E–.06	51–5	3.8b		
JMA	V	02 06 09 34.4–.10	42.93N	145.51E	44–1	4.0		
SKHL	V	02 06 09 35.0–.50	43.00N	145.30E	53–5	4.5b		
IDC	V	02 06 09 39.1–2.7	43.02N	145.56E	78–21	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ34.00000°,λ1.00000°. NP2:ϕ_s63.00000°,δ89.00000°,λ124.00000°. $M_0$5.38000×10^{14}
MOS Error ellipse: s-maj=16.9km s-min=9.9km az=89.4.
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=5.8km az=155.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=22.9km s-min=17.1km az=163.0.

ISC	**V**	**02 20 15 43.7–1.1**	**41.38N–.03**	**141.22E–.06**	**13–7**	**3.8b**	**21**	**0-65**
NIED	V	02 20 15 00	41.40N	141.30E	5	3.6W		**¶17202639**
ISCJB	V	02 20 15 43.3–.70	41.39N–.03	141.24E–.08	22–5	3.7b		
JMA	V	02 20 15 43.5	41.40N	141.26E	7–1	3.5		
IDC	V	02 20 15 50.4–1.7	41.50N	141.18E	69–17	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ37.00000°,λ90.00000°. NP2:ϕ_s140.00000°,δ53.00000°,λ90.00000°. $M_0$3.23000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.8km az=179.6.
JMA Event type fe.
IDC Error ellipse: s-maj=24.1km s-min=12.3km az=112.0.

ISC	**V**	**03 19 42 19.6–.69**	**45.56N–.07**	**143.91E–.08**	**329**	**2.8b**	**24**	**1-62**
ISCJB	V	03 19 42 18.9–.47	45.64N–.05	143.9E–.10	329	2.8b		**¶17202708**
JMA	V	03 19 42 19.8–.40	45.67N	144.02E	322	3.4		
IDC	V	03 19 42 20.3–.81	45.80N	143.67E	318–14	3.5,2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.6km az=7.5.
JMA Error ellipse: s-maj=5.6km s-min=6.2km az=-1.0.
IDC Error ellipse: s-maj=31.8km s-min=18.1km az=153.0.

ISC	**V**	**04 19 22 14.4–1.9**	**44.54N–.06**	**144.76E–.04**	**11–13**		**17**	**1-3**
ISCJB	V	04 19 22 15.2–.97	44.56N–.05	144.77E–.05	21–10			**¶600606754**
JMA	V	04 19 22 15.8–.10	44.52N	144.78E	18–1	2.8		
SKHL	V	04 19 22 16.3–.70	44.50N	144.70E	33–4	4.3b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.8km az=7.7.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC	**V**	**07 00 37 21.9–.63**	**42.89N–.05**	**143.85E–.04**	**118–5**	**4.1b**	**83**	**0-85**
NIED	V	07 00 37 00	42.90N	143.80E	116	3.9W		**¶16560919**
ISCJB	V	07 00 37 21.1–.28	42.88N–.03	143.84E–.04	124–2	4.1b		
MOS	V	07 00 37 21.3–1.0	42.87N	143.83E	129	4.2b		
JMA	V	07 00 37 22.5–.10	42.91N	143.81E	116–1	3.8		
IDC	V	07 00 37 22.4–1.5	42.89N	143.80E	121–10	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ39.00000°,λ156.00000°. NP2:ϕ_s90.00000°,δ75.00000°,λ53.00000°. $M_0$8.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=142.2.
MOS Error ellipse: s-maj=11.8km s-min=7.7km az=84.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ64.00000°,λ49.00000°. NP2: ϕ_s333.00000°,δ47.00000°,λ144.00000°. Principal axes: T Plg52.0000°,Azm311.0000° ; N Plg36.0000°,Azm111.0000°; P Plg10.0000°,Azm208.0000°
IDC Error ellipse: s-maj=17.4km s-min=14.1km az=157.0.

IDC	**V**	**08 11 02 04.8–3.4**	**41.66N**	**144.42E**	**0**	**3.7,3.6L**		
								¶17203042

IDC Error ellipse: s-maj=79.9km s-min=40.3km az=70.0.

ISC	**V**	**10 08 54 16.0–.64**	**43.71N–.05**	**145.28E–.04**	**131–5**	**3.7b**	**65**	**0-84**
MOS	V	10 08 54 14.6–1.5	44.12N	144.88E	116	4.0b		**¶17203195**
ISCJB	V	10 08 54 15.0–.37	43.66N–.06	145.31E–.05	136–2	3.8b		
SKHL	V	10 08 54 15.9–.20	44.30N	144.80E	108–6	5.6,4.9b		
JMA	V	10 08 54 16.5–.10	43.63N	145.34E	130–1	3.4,4.9b		
IDC	V	10 08 54 18.0–2.4	43.84N	145.20E	143–12	3.8,3.7		

ISC Event type ke.
MOS Error ellipse: s-maj=13.9km s-min=10.6km az=105.5.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.8km az=163.6.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=61.3km s-min=15.6km az=177.0.

ISC	**V**	**11 05 30 39.2–.67**	**43.62N–.06**	**140.03E–.06**	**215–7**	**3.4b**	**43**	**0-68**
ISCJB	V	11 05 30 38.0–.34	43.63N–.04	140.04E–.06	220–4	3.5b		**¶17203358**
JMA	V	11 05 30 39.0–.20	43.69N	139.98E	210–2	3.4		
IDC	V	11 05 30 39.1–.79	43.69N	139.98E	210–8	4.0,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.5km az=44.3.

JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=11.4km az=168.0.
ISC V 11 22 13 31.4–1.3 42.25N–.05 144.68E–.04 32–9 4.1b 121 1-115
NIED V 11 22 13 00 42.30N 144.70E 35 4.0W **¶16560037**
ISCJB V 11 22 13 30.6–.57 42.21N–.04 144.74E–.04 44–4 4.2b
SKHL V 11 22 13 30.8–.10 42.11N 144.82E 54–4 5.1b
JMA V 11 22 13 31.9 42.34N 144.68E 36–1 3.9
MOS V 11 22 13 31.0–1.3 42.21N 144.61E 46 4.3b
NEIC V 11 22 13 32.1–.89 42.21N 144.70E 40–9 4.5b
IDC V 11 22 13 33.2–2.6 42.22N 144.56E 47–24 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ35.00000°,λ116.00000°. NP2:ϕ_s48.00000°,δ59.00000°,λ73.00000°. $M_0$1.10000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.9km az=145.1.
JMA Event type fe.
MOS Error ellipse: s-maj=11.4km s-min=8.5km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.1km az=170.0. Recorded [1 JMA] in southeastern Hokkaido.
IDC Error ellipse: s-maj=20.3km s-min=17.5km az=161.0.
ISC V 12 10 25 48.3–1.4 42.51N–.07 145.70E–.05 44–13 3.7b 50 1-84
NIED V 12 10 25 00 42.60N 145.60E 47 3.9W **¶17203472**
MOS V 12 10 25 46.5–1.1 42.46N 145.63E 52 4.1b
JMA V 12 10 25 47.9–.10 42.56N 145.64E 58–2 4.1
ISCJB V 12 10 25 47.4–.81 42.53N–.05 145.67E–.05 51–7 3.8b
SKHL V 12 10 25 49.1–.80 42.60N 145.65E 62–4 4.7b
IDC V 12 10 25 50.0–2.9 42.47N 145.63E 63–26 3.9L,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ37.00000°,λ43.00000°. NP2:ϕ_s105.00000°,δ66.00000°,λ119.00000°. $M_0$6.88000×10^{14}
MOS Error ellipse: s-maj=22.1km s-min=11.7km az=78.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.6km az=147.0.
IDC Error ellipse: s-maj=20.6km s-min=18.4km az=93.0.
ISC V 15 05 19 42.7–.67 42.60N–.05 142.97E–.04 112–5 3.8b 57 0-70
NIED V 15 05 19 00 42.70N 143.00E 116 3.9W **¶16560070**
MOS V 15 05 19 40.9–1.3 42.56N 142.89E 115 3.9b
ISCJB V 15 05 19 41.5–.35 42.59N–.04 142.96E–.04 118–2 3.9b
IDC V 15 05 19 42.7–1.6 42.58N 142.75E 109–10 3.9,3.6
JMA V 15 05 19 43.4–.10 42.67N 143.01E 106–2 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ29.00000°,λ46.00000°. NP2:ϕ_s353.00000°,δ69.00000°,λ112.00000°. $M_0$7.19000×10^{14}
MOS Error ellipse: s-maj=16.9km s-min=10.7km az=68.7.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=149.7.
IDC Error ellipse: s-maj=19.5km s-min=15.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC V 15 13 11 57.8–1.6 43.12N–.06 144.53E–.04 74–10 27 0-4
SKHL V 15 13 11 56.7–.30 42.89N 144.66E 34–1 4.3b **¶600614961**
JMA V 15 13 11 56.4–.10 43.18N 144.51E 86–1 3.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC V 16 22 14 21.9–.82 41.54N–.05 142.15E–.04 60–7 4.3b 103 1-86
NIED V 16 22 14 00 41.60N 142.10E 53 4.2W **¶16524524**
MOS V 16 22 14 20.7–1.1 41.63N 142.07E 55 4.4b
ISCJB V 16 22 14 21.2–.35 41.57N–.03 142.11E–.04 69–3 4.1b
JMA V 16 22 14 21.7–.10 41.55N 142.07E 64–3 4.2
IDC V 16 22 14 22.9–1.7 41.57N 142.06E 68–14 4.0,3.9
NEIC V 16 22 14 23.3–.56 41.62N 142.15E 70–7 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ21.00000°,λ90.00000°. NP2:ϕ_s19.00000°,δ69.00000°,λ90.00000°. $M_0$2.45000×10^{15}
MOS Error ellipse: s-maj=10.8km s-min=7.7km az=81.8.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=135.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ81.00000°,λ101.00000°. NP2: ϕ_s151.00000°,δ14.00000°,λ41.00000°. Principal axes: T Plg53.0000°,Azm304.0000° ; N Plg11.0000°,Azm200.0000°; P Plg35.0000°,Azm102.0000°
IDC Error ellipse: s-maj=15.7km s-min=11.2km az=119.0.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=6.7km az=135.0. Recorded [2 JMA] in Aomori, Honshu.
ISC V 19 03 12 32.0–.60 41.54N–.05 142.12E–.05 59 4.0b 48 1-71
NIED V 19 03 12 00 41.60N 142.10E 50 3.8W **¶17203934**
MOS V 19 03 12 28.3–.98 41.36N 142.06E 49 4.2b
ISCJB V 19 03 12 30.7–.35 41.53N–.04 142.12E–.05 59 3.9b,3.7s
JMA V 19 03 12 31.9–.10 41.57N 142.06E 62–2 3.6,3.7s
IDC V 19 03 12 32.4–1.8 41.54N 142.13E 67–15 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ26.00000°,λ78.00000°. NP2:ϕ_s24.00000°,δ64.00000°,λ96.00000°. $M_0$6.24000×10^{14}
MOS Error ellipse: s-maj=15.3km s-min=9.4km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.5km az=43.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=12.0km az=113.0.
ISC V 21 17 45 01.4–.51 43.56N–.04 144.78E–.04 145–4 4.4b 274 0-84
ISCJB V 21 17 45 00.6–.20 43.57N–.03 144.80E–.03 148–1 4.4b **¶16535812**
NIED V 21 17 45 00 43.50N 144.90E 150 4.0W
MOS V 21 17 45 00.4–.93 43.64N 144.69E 145 4.3b
IDC V 21 17 45 01.4–1.1 43.59N 144.83E 144–8 4.3,4.0
JMA V 21 17 45 01.7–.10 43.51N 144.85E 143–1 4.0,4.0
SKHL V 21 17 45 01.8–.70 43.56N 144.87E 145–4 5.8s,4.6b
NEIC V 21 17 45 02.1–.33 43.61N 144.74E 146–3 4.6b,4.6b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=149.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ23.00000°,λ-169.00000°. NP2:ϕ_s256.00000°,δ86.00000°,λ-67.00000°. $M_0$1.22000×10^{15}
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=107.5.
IDC Error ellipse: s-maj=13.2km s-min=11.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=139.0.
ISC V 23 19 33 37.0–1.9 42.1N–.10 144.65E–.09 34 14 1-5
NIED V 23 19 33 00 42.00N 145.00E 23 3.5W **¶600621701**
JMA V 23 19 33 34.5 41.99N 144.97E 33–1 3.5
ISCJB V 23 19 33 36.6–1.4 42.07N–.10 144.82E–.10 34 3.5
SKHL V 23 19 33 39.3–.70 42.28N 144.50E 40–4 4.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ36.00000°,λ125.00000°. NP2:ϕ_s14.00000°,δ61.00000°,λ67.00000°. $M_0$2.15000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=6.9km az=147.5.
ISC V 24 05 43 29.2–.52 42.32N–.04 143.13E–.04 57–5 4.1b 89 0-148
ISCJB V 24 05 43 28.6–.29 42.29N–.03 143.12E–.04 69–2 4.2b **¶16710784**
IDC V 24 05 43 29.0–.61 42.34N 143.05E 55–5 4.2,4.1
MOS V 24 05 43 28.0–1.1 42.32N 142.96E 63 4.5b,4.1
NEIC V 24 05 43 29.5–.58 42.34N 143.04E 60–6 4.6b,4.1
JMA V 24 05 43 30.5–.10 42.36N 143.12E 50–1 4.1,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=141.2.
IDC Error ellipse: s-maj=14.7km s-min=11.5km az=119.0.
MOS Error ellipse: s-maj=11.6km s-min=7.4km az=75.6.
NEIC Event type fe. Error ellipse: s-maj=9.1km s-min=6.7km az=111.0. Recorded [2 JMA] in southern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC V 27 06 27 23.5–1.1 42.61N–.08 145.58E–.05 20–7 3.5b 38 1-84
NIED V 27 06 27 00 42.60N 145.50E 32 3.6W **¶17204547**
IDC V 27 06 27 20.5–1.5 42.64N 145.61E 0 3.7,3.6L
MOS V 27 06 27 22.6–1.1 42.53N 145.54E 27 4.2b,3.6L
ISCJB V 27 06 27 23.7–.91 42.58N–.05 145.57E–.05 35–9 3.4b,3.6L
JMA V 27 06 27 23.9–.10 42.61N 145.53E 48–2 3.8,3.6L
SKHL V 27 06 27 24.2–1.0 42.54N 145.59E 48–4 4.7b,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ51.00000°,λ-48.00000°. NP2:ϕ_s245.00000°,δ55.00000°,λ-130.00000°. $M_0$3.33000×10^{14}

IDC Error ellipse: s-maj=40.0km s-min=20.9km az=0.0.
MOS Error ellipse: s-maj=26.2km s-min=13.8km az=74.2.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.4km az=153.5.
ISC V 29 11 29 46.5–.90 42.09N–.05 141.52E–.06 93–6 3.9b 25 0-78
ISCJB V 29 11 29 45.7–.58 42.09N–.05 141.51E–.07 99–4 3.8b **¶17204696**
JMA V 29 11 29 47.1–.10 42.12N 141.50E 88–2 3.8
IDC V 29 11 29 49.5–7.0 42.83N 140.35E 62–49 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.4km az=33.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=118.4km s-min=41.0km az=155.0.
ISC V 29 12 46 54.8–.98 41.48N–.04 141.96E–.05 62–10 3.8b 29 1-65
ISCJB V 29 12 46 54.1–.50 41.48N–.03 141.95E–.07 72–5 3.7b **¶17204700**
JMA V 29 12 46 54.7–.10 41.49N 141.98E 62–2 3.1
IDC V 29 12 46 57.4–2.2 41.49N 142.11E 92–20 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.0km az=21.2.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=27.3km s-min=18.3km az=103.0.
ISC V 29 20 28 24.8–.63 44.80N–.06 141.59E–.06 268–5 3.6b 50 0-85
ISCJB V 29 20 28 24.0–.32 44.84N–.05 141.60E–.07 271–3 3.5b **¶17204724**
JMA V 29 20 28 24.3–.20 44.90N 141.57E 271–2 3.4
IDC V 29 20 28 24.9–.52 44.91N 141.54E 265–5 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=7.7km az=159.6.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=10.4km az=117.0.
ISC V 30 06 15 55.6–2.7 42.6N–.20 145.77E–.08 57–33 16 1-3
JMA V 30 06 15 56.2–.10 42.58N 145.72E 58–2 3.3 **¶600626359**
SKHL V 30 06 15 57.7–.60 44.33N 146.51E 148–2 5.0s,4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC V 31 07 56 45.4–.91 42.82N–.06 145.30E–.04 51–7 4.1b 105 0-89
NIED V 31 07 56 00 42.60N 145.40E 35 4.0W **¶17204815**
JMA V 31 07 56 42.4–.10 42.64N 145.37E 47–2 3.9
ISCJB V 31 07 56 43.9–.58 42.78N–.05 145.33E–.05 56–4 4.3s,4.1b
MOS V 31 07 56 44.3–1.5 42.93N 145.23E 51 4.4b,4.1b
SKHL V 31 07 56 45.0–.10 42.83N 145.26E 61–5 5.3b,4.7s
IDC V 31 07 56 51.1–2.4 43.23N 145.15E 84–20 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ31.00000°,λ53.00000°. NP2:ϕ_s44.00000°,δ66.00000°,λ110.00000°. $M_0$1.21000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.4km az=149.2.
MOS Error ellipse: s-maj=10.2km s-min=6.2km az=86.0.
IDC Error ellipse: s-maj=21.5km s-min=14.5km az=162.0.
ISC VI 01 16 39 27.5–.49 41.76N–.03 142.23E–.03 31–3 4.5b 187 1-87
NIED VI 01 16 39 00 41.70N 142.20E 26 4.2W **¶16558657**
JMA VI 01 16 39 26.8–.10 41.67N 142.24E 42–4 4.1
BJI VI 01 16 39 27.1 41.64N 142.33E 61 4.9b,4.6b
MOS VI 01 16 39 27.1–1.1 41.76N 142.25E 47 4.8b,4.6b
ISCJB VI 01 16 39 27.5–.31 41.74N–.02 142.23E–.03 50–2 4.4b,3.4s
IDC VI 01 16 39 28.6–.74 41.78N 142.11E 37–5 4.4L,4.1
NEIC VI 01 16 39 30.9–.62 41.81N 142.23E 62–5 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ27.00000°,λ83.00000°. NP2:ϕ_s352.00000°,δ63.00000°,λ94.00000°. $M_0$2.29000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=8.5km s-min=5.5km az=93.2.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.8km az=137.6.
IDC Error ellipse: s-maj=15.4km s-min=11.1km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.1km az=122.0. Recorded [2 JMA] in Aomori, Honshu.
ISC VI 02 16 40 18.3–1.6 41.40N–.05 143.04E–.06 18–5 28 1-65
IDC VI 02 16 40 13.8–2.1 41.25N 143.74E 0 3.6,3.5b **¶17205011**
JMA VI 02 16 40 19.4–.10 41.40N 142.95E 40–3 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=79.5km s-min=30.3km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC VI 03 21 15 43.7–1.3 41.69N–.04 142.22E–.03 6–9 3.7b 40 1-76
NIED VI 03 21 15 00 41.70N 142.20E 35 3.8W **¶17205123**
JMA VI 03 21 15 46.9–.10 41.68N 142.22E 38 3.7
IDC VI 03 21 15 50.0–2.1 41.77N 142.17E 53–18 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ16.00000°,λ152.00000°. NP2:ϕ_s19.00000°,δ83.00000°,λ76.00000°. $M_0$6.07000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s39.00000°,δ66.00000°,λ-73.00000°. NP2: ϕ_s182.00000°,δ30.00000°,λ-124.00000°. Principal axes: T Plg19.0000°,Azm116.0000° ; N Plg16.0000°,Azm212.0000°; P Plg65.0000°,Azm339.0000°
IDC Error ellipse: s-maj=25.6km s-min=13.5km az=110.0.
ISC VI 04 00 03 31.2–.69 43.44N–.06 144.88E–.04 138–5 3.9b 60 0-84
NIED VI 04 00 03 00 43.50N 145.00E 160 4.4W **¶17205136**
MOS VI 04 00 03 30.3–.79 43.40N 144.87E 150 3.9b
ISCJB VI 04 00 03 30.4–.42 43.46N–.06 144.87E–.05 142–3 3.8b
JMA VI 04 00 03 32.2–.10 43.49N 144.85E 135–1 3.7
SKHL VI 04 00 03 32.8–.10 43.50N 144.93E 139–8 4.8b,4.7s
IDC VI 04 00 03 35.1–2.9 43.98N 144.67E 143–9 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ68.00000°,λ18.00000°. NP2:ϕ_s51.00000°,δ73.00000°,λ157.00000°. $M_0$4.15000×10^{15}
MOS Error ellipse: s-maj=17.7km s-min=13.9km az=81.2.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.1km az=159.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=63.5km s-min=14.9km az=165.0.
ISC VI 04 11 01 34.6–.43 43.60N–.04 144.47E–.04 135–3 4.7b 312 0-114
NIED VI 04 11 01 00 43.50N 144.50E 140 4.4W **¶16558738**
BJI VI 04 11 01 33.8 43.64N 144.61E 145 4.7b,4.6b
ISCJB VI 04 11 01 34.3–.19 43.55N–.03 144.50E–.03 145–1 4.6b,4.6b
MOS VI 04 11 01 34.2–.94 43.65N 144.42E 141 4.9b,4.6b
JMA VI 04 11 01 35.6–.10 43.52N 144.51E 143–1 4.4,4.6b
NEIC VI 04 11 01 35.2–.38 43.58N 144.48E 138–3 4.6b,4.6b
SKHL VI 04 11 01 35.8–.70 43.57N 144.53E 144–4 5.4s,5.0b
IDC VI 04 11 01 36.2–.89 43.63N 144.48E 146–6 4.6,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ48.00000°,λ179.00000°. NP2:ϕ_s94.00000°,δ90.00000°,λ42.00000°. $M_0$4.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=144.2.
MOS Error ellipse: s-maj=7.6km s-min=4.9km az=104.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s99.00000°,δ83.00000°,λ36.00000°. NP2: ϕ_s3.00000°,δ54.00000°,λ171.00000°. Principal axes: T Plg30.0000°,Azm327.0000° ; N Plg53.0000°,Azm108.0000°; P Plg19.0000°,Azm226.0000°
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=134.0. Recorded [2 JMA] in eastern Hokkaido.
IDC Error ellipse: s-maj=11.7km s-min=9.5km az=121.0.
JMA VI 05 07 12 09.9 41.53N 140.97E 10–1 0.7 ¶600631842
ISC VI 05 10 43 24.4–.69 42.22N–.05 143.07E–.04 58–6 4.0b 46 0-86
NIED VI 05 10 43 00 42.30N 143.00E 59 3.8W **¶17205313**
ISCJB VI 05 10 43 23.7–.41 42.25N–.04 143.06E–.05 64–3 3.9b
MOS VI 05 10 43 23.8–.85 42.24N 143.02E 64 4.2b
JMA VI 05 10 43 25.4–.10 42.31N 143.05E 50–1 3.6
IDC VI 05 10 43 26.2–2.0 42.22N 143.03E 74–15 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ27.00000°,λ82.00000°. NP2:ϕ_s23.00000°,δ63.00000°,λ94.00000°. $M_0$5.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.2km az=150.5.
MOS Error ellipse: s-maj=15.9km s-min=9.0km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=13.9km az=112.0.

JMA VI 08 00 29 24.7–.10 42.89N 143.21E 90–2 0.9
¶600634309
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC VI 08 07 53 44.5–1.0 41.30N–.03 142.65E–.04 29–7 4.4b,3.5s 161 1-87
NIED VI 08 07 53 00 41.30N 142.70E 32 4.1W,3.5s **¶16577428**
BJI VI 08 07 53 37.6 41.39N 143.15E 20 4.6b,4.6b
JMA VI 08 07 53 45.6–.10 41.31N 142.67E 38–4 4.1,4.6b
MOS VI 08 07 53 45.3–1.2 41.40N 142.62E 49 4.6b,4.6b
NEIC VI 08 07 53 48.4–.53 41.41N 142.56E 58–5 4.6b,4.6b
IDC VI 08 07 53 50.2–2.0 41.35N 142.47E 77–17 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ22.00000°,λ124.00000°. NP2:ϕ_s22.00000°,δ72.00000°,λ77.00000°. $M_0$1.78000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=95.8.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=137.0. Recorded [1 JMA] in southwestern Hokkaido. Also recorded [1 JMA] in Aomori, Honshu.
IDC Error ellipse: s-maj=15.0km s-min=12.9km az=126.0.
ISC VI 08 08 05 25.5–1.8 42.35N–.06 144.70E–.05 16–11 3.6b 38 1-85
NIED VI 08 08 05 00 42.40N 144.70E 23 3.8W **¶17205541**
MOS VI 08 08 05 26.2–1.2 42.16N 144.69E 44 4.0b
JMA VI 08 08 05 27.1 42.36N 144.69E 31–1 3.5
SKHL VI 08 08 05 28.4–.60 42.32N 144.63E 69–7 4.3b
IDC VI 08 08 05 29.1–2.9 42.28N 144.54E 46–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ33.00000°,λ98.00000°. NP2:ϕ_s38.00000°,δ57.00000°,λ85.00000°. $M_0$6.09000×10^{14}
MOS Error ellipse: s-maj=22.1km s-min=11.1km az=79.1.
IDC Error ellipse: s-maj=25.0km s-min=21.0km az=116.0.
ISC VI 09 08 34 40.0–2.5 42.5N–.10 145.04E–.06 27–14 17 1-3
SKHL VI 09 08 34 39.8–.20 42.42N 145.06E 30 4.1b **¶600635604**
JMA VI 09 08 34 39.9 42.51N 145.01E 45–1 3.2
ISC Event type ke.
ISC VI 09 18 34 00.6–.81 42.04N–.05 142.52E–.04 63–7 3.7b 40 0-86
ISCJB VI 09 18 34 00.1–.43 42.05N–.04 142.53E–.04 72–3 3.6b **¶17205651**
JMA VI 09 18 34 00.9–.10 42.03N 142.56E 62–2 3.5
NIED VI 09 18 34 00 42.00N 142.50E 71 3.8W
IDC VI 09 18 34 02.3–2.4 42.13N 142.44E 76–19 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.0km az=145.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s70.00000°,δ64.00000°,λ110.00000°. NP2:ϕ_s210.00000°,δ32.00000°,λ55.00000°. Principal axes: T Plg65.0000°,Azm15.0000° ; N Plg18.0000°,Azm241.0000°; P Plg17.0000°,Azm145.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ21.00000°,λ20.00000°. NP2:ϕ_s57.00000°,δ83.00000°,λ110.00000°. $M_0$6.45000×10^{14}
IDC Error ellipse: s-maj=31.8km s-min=20.3km az=142.0.
JMA VI 11 00 02 36.4 43.80N 141.59E 8–2 2.0
¶600637003
JMA Event type fe.
ISC VI 12 21 08 14.4–.85 41.75N–.04 141.42E–.04 95–7 3.9b 38 0-65
ISCJB VI 12 21 08 13.6–.44 41.76N–.04 141.41E–.05 102–3 4.0b **¶17206005**
JMA VI 12 21 08 14.8–.10 41.78N 141.45E 91–1 3.1
IDC VI 12 21 08 19.1–10 42.20N 141.26E 116–36 3.9,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.7km az=28.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=183.2km s-min=17.8km az=167.0.
ISC VI 13 02 19 28.6–.69 44.57N–.06 141.24E–.07 242–6 3.2b 38 0-86
ISCJB VI 13 02 19 27.8–.38 44.58N–.05 141.24E–.08 246–3 3.2b **¶17206022**
JMA VI 13 02 19 27.8–.20 44.64N 141.30E 252–2 3.3
IDC VI 13 02 19 28.5–.62 44.62N 141.24E 237–7 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=8.1km az=18.5.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=22.5km s-min=12.6km az=169.0.
ISC VI 14 12 48 54.0–.42 43.14N–.03 145.29E–.03 70–3 5.2b 1416 0-155
NIED VI 14 12 48 00 43.10N 145.40E 80 5.0W **¶603244146**
IDC VI 14 12 48 52.7–1.6 43.24N 145.34E 55–14 5.1,4.9
BJI VI 14 12 48 52.8 43.22N 145.29E 74 5.1b,5.0b
NEIC VI 14 12 48 53.2–.38 43.22N 145.24E 56–3 5.3b,5.0b
GCMT VI 14 12 48 53.2–.30 43.21N 145.24E 82–2 5.0W,5.0b
ISCJB VI 14 12 48 53.8–.20 43.13N–.02 145.28E–.02 79–1 5.1b,5.0b
JMA VI 14 12 48 54.9–.10 43.12N 145.36E 73–1 5.1,5.0b
MOS VI 14 12 48 54.0–.87 43.22N 145.24E 79 5.5b,5.0b
SKHL VI 14 12 48 55.7–.90 43.19N 145.38E 91–7 5.6s,5.6b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ50.00000°,λ137.00000°. NP2:ϕ_s157.00000°,δ59.00000°,λ49.00000°. $M_0$3.62000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.3km az=155.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=160.0. Felt at Obihiro and Sapporo. Also felt at Misawa, Honshu. Felt [III] at Shakotan and Yuzhno-Kuril'sk, Kuril Islands. Recorded [4 JMA] in eastern Hokkaido.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c57; s78,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.12 $M_{\theta\theta}$2.22±.12; $M_{\phi\phi}$-4.03±.11; $M_{r\theta}$1.46±.08; $M_{\theta\phi}$-0.53±.10; $M_{\phi r}$-1.15±.09; Best double couple: NP1:ϕ_s149.00000°,δ70.00000°,λ40.00000°. NP2:ϕ_s43.00000°,δ53.00000°,λ154.00000°. Principal axes: T 3.6650,Plg42.0000°,Azm12.0000°; N 0.5930,Plg46.0000°,Azm172.0000° ; P -4.2590,Plg10.0000°,Azm272.0000° $M_0$3.96200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=164.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ48.00000°,λ65.00000°. NP2:ϕ_s216.00000°,δ48.00000°,λ115.00000°. Principal axes: T Plg72.0000°,Azm199.0000° ; N Plg18.0000°,Azm19.0000°; P Plg0.0000°,Azm109.0000°
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=3.8km az=102.4. Felt (III) Yuzhno-Kuril'sk, Malokuril'skoye. Moment Tensor Solution.
SKHL Event type fe. Felt (III) at Yushno-Kurilsk (102 km).
ISC VI 14 18 14 32.2–.83 41.58N–.05 141.23E–.06 100–7 3.7b 26 0-65
IDC VI 14 18 14 29.5–3.6 41.29N 141.21E 82–35 3.7,3.5 **¶17206130**
ISCJB VI 14 18 14 31.5–.52 41.63N–.05 141.23E–.07 103–4 3.6b,3.5
JMA VI 14 18 14 32.7–.10 41.65N 141.29E 92–1 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=23.8km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.1km az=41.3.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC VI 16 14 11 07.6–2.8 45.40N–.05 145.70E–.04 7–18 21 1-4
JMA VI 16 14 11 10.7–.20 45.32N 145.61E 22–5 2.9 **¶600641901**
SKHL VI 16 14 11 11.8–.60 45.41N 145.66E 53–2 4.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC VI 18 18 50 03.0–.58 44.94N–.05 141.47E–.05 284–5 3.6b 74 0-85
ISCJB VI 18 18 50 02.3–.26 45.00N–.04 141.54E–.06 289–2 3.7b **¶17206482**
JMA VI 18 18 50 02.7–.20 45.02N 141.51E 287–2 3.7
IDC VI 18 18 50 03.3–.49 45.11N 141.52E 279–10 4.1,3.7
SKHL VI 18 18 50 07.9–1.5 45.34N 141.28E 251–15 4.4s,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.7km az=41.1.
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
IDC Error ellipse: s-maj=27.1km s-min=10.9km az=173.0.
JMA VI 21 09 51 49.0 42.97N 141.42E 0 3.8
NIED VI 21 09 51 00 43.00N 141.40E 5 3.8W **¶600646201**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ33.00000°,λ83.00000°. NP2:ϕ_s4.00000°,δ57.00000°,λ95.00000°. $M_0$5.09000×10^{14}
ISC VI 24 17 39 26.4–.29 42.01N–.03 142.66E–.02 53–2 5.5b,4.8s 1644 0-160
NIED VI 24 17 39 00 42.00N 142.70E 56 5.4W,4.8s **¶16679649**
BJI VI 24 17 39 20.3 41.86N 142.97E 39 5.5b,5.3b
MOS VI 24 17 39 24.9–.99 42.07N 142.61E 54 5.8b,4.8s
ISCJB VI 24 17 39 26.1–.18 42.00N–.01 142.61E–.02 61–1 5.4b,4.8s
JMA VI 24 17 39 26.4–.10 41.97N 142.72E 57–2 5.4,4.8s
NEIC VI 24 17 39 27.2–.09 42.05N 142.55E 58 5.5W,4.8s
GCMT VI 24 17 39 27.2–.10 42.00N 142.77E 54–0 5.4W,4.8s
IDC VI 24 17 39 27.2–.54 42.03N 142.66E 58–4 5.3,5.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ85.00000°. $M_0$1.47000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=98.6.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=147.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ83.00000°,λ90.00000°. NP2:ϕ_s201.00000°,δ7.00000°,λ90.00000°. Principal axes: T Plg52.0000°,Azm291.0000° ; N Plg0.0000°,Azm21.0000°; P Plg38.0000°,Azm111.0000°
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=149.0. Felt at Kitahiroshima, Obihiro and Sapporo. Also felt at Misawa, Honshu. Recorded [3 JMA] in southern Hokkaido and in Aomori, Honshu. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}1.16 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-0.57 $M_{r\theta}$0.96 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.18 Best double couple: NP1:ϕ_s234.00000° ,δ22.00000°,λ104.00000°. NP2:ϕ_s40.00000°,δ69.00000°,λ85.00000°. Principal axes: T 1.8500,Plg66.0000°,Azm301.0000°; N 0.4200,Plg5.0000°,Azm42.0000° ; P -2.2700,Plg24.0000°,Azm134.0000° $M_0$2.10000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s92,c175; s106,c183; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.44±.03 $M_{\theta\theta}$-0.27±.02; $M_{\phi\phi}$-1.18±.02; $M_{r\theta}$0.39±.02; $M_{\theta\phi}$-0.53±.02; $M_{\phi r}$0.88±.02; Best double couple: NP1:ϕ_s24.00000°,δ62.00000° ,λ90.00000°. NP2:ϕ_s205.00000°,δ28.00000°,λ91.00000°. Principal axes: T 1.7340,Plg73.0000°,Azm294.0000°; N -0.0230,Plg0.0000°,Azm24.0000° ; P -1.7180,Plg17.0000°,Azm115.0000° $M_0$1.72600×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=8.5km az=87.0.
ISC VI 25 02 52 17.5–.54 45.47N–.04 142.87E–.05 296–5 4.0b 113 1-84
NIED VI 25 02 52 00 45.50N 142.90E 300 4.1W **¶16720987**
MOS VI 25 02 52 16.6–.99 45.57N 142.80E 298 4.0b
ISCJB VI 25 02 52 16.7–.24 45.51N–.03 142.92E–.05 299–2 4.0b
SKHL VI 25 02 52 17.2–.30 45.53N 142.89E 310–17 4.8s,4.2b
JMA VI 25 02 52 17.9–.20 45.46N 142.87E 296–2 3.8,4.2b
IDC VI 25 02 52 17.9–.48 45.56N 142.83E 293–5 4.3,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ26.00000°,λ-168.00000°. NP2:ϕ_s334.00000°,δ85.00000°,λ-65.00000°. $M_0$1.53000×10^{15}
MOS Error ellipse: s-maj=12.1km s-min=7.0km az=100.2.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.9km az=164.7.
JMA Error ellipse: s-maj=2.2km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=11.4km s-min=9.0km az=158.0.
ISC VI 25 05 50 21.1–.84 41.95N–.06 142.67E–.05 59–7 4.0b,3.4s 36 0-86
NIED VI 25 05 50 00 42.00N 142.70E 53 4.0W,3.4s **¶16720988**
ISCJB VI 25 05 50 20.0–.57 41.94N–.06 142.67E–.06 67–4 3.8b,3.4s
JMA VI 25 05 50 20.8–.10 41.95N 142.70E 56–2 3.7,3.4s
IDC VI 25 05 50 23.6–1.8 42.05N 142.58E 80–14 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ22.00000°,λ107.00000°. NP2:ϕ_s23.00000°,δ69.00000°,λ83.00000°. $M_0$1.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.5km az=144.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=12.2km az=122.0.
ISC VI 25 13 04 58.6–.48 42.91N–.03 142.58E–.03 106–4 4.5b 276 0-91
NIED VI 25 13 04 00 42.90N 142.60E 101 4.3W **¶16681365**
BJI VI 25 13 04 53.2 42.95N 143.01E 100 5.0b,4.7b
ISCJB VI 25 13 04 57.6–.18 42.90N–.02 142.54E–.02 110–1 4.5b,4.7b
MOS VI 25 13 04 57.7–.76 42.91N 142.55E 112 4.7b,4.7b
NEIC VI 25 13 04 58.3–.38 42.93N 142.49E 101–4 4.6b,4.7b
JMA VI 25 13 04 58.8–.10 42.90N 142.64E 103–2 4.1,4.7b
IDC VI 25 13 04 59.4–.62 42.96N 142.57E 112–4 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ37.00000°,λ168.00000°. NP2:ϕ_s185.00000°,δ83.00000°,λ54.00000°. $M_0$3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=154.5.
MOS Error ellipse: s-maj=6.6km s-min=4.9km az=90.8.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=152.0. Recorded [2 JMA] in central and southern Hokkaido.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ87.00000°,λ59.00000°. NP2:ϕ_s91.00000°,δ31.00000°,λ175.00000°. Principal axes: T Plg40.0000°,Azm67.0000° ; N Plg31.0000°,Azm187.0000°; P Plg35.0000°,Azm302.0000°
IDC Error ellipse: s-maj=10.8km s-min=8.2km az=120.0.
ISC VI 26 12 05 22.3–1.2 41.15N–.04 142.56E–.06 48–12 3.8b 36 1-71
NIED VI 26 12 05 00 41.10N 142.60E 32 3.7W **¶16721004**
ISCJB VI 26 12 05 21.8–.56 41.16N–.04 142.56E–.06 57–6 3.8b
JMA VI 26 12 05 21.5–.10 41.13N 142.57E 33–4 4.0
IDC VI 26 12 05 25.3–2.6 41.24N 142.38E 68–22 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ31.00000°,λ70.00000°. NP2:ϕ_s34.00000°,δ61.00000°,λ101.00000°. $M_0$3.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.3km az=34.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=35.3km s-min=20.8km az=152.0.
ISC VI 30 02 51 19.1–.79 42.04N–.05 142.55E–.04 64–7 4.0b 42 0-86
NIED VI 30 02 51 00 42.00N 142.60E 47 3.8W **¶16721034**
ISCJB VI 30 02 51 18.0–.48 42.04N–.05 142.55E–.05 71–3 3.8b
JMA VI 30 02 51 18.9–.20 42.04N 142.58E 62–2 3.8
IDC VI 30 02 51 20.7–1.8 42.10N 142.52E 78–13 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ39.00000°,λ129.00000°. NP2:ϕ_s46.00000°,δ61.00000°,λ63.00000°. $M_0$5.76000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=147.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s20.00000°,δ80.00000°,λ89.00000°. NP2:ϕ_s208.00000°,δ10.00000°,λ98.00000°. Principal axes: T Plg55.0000°,Azm288.0000° ; N Plg1.0000°,Azm20.0000°; P Plg35.0000°,Azm111.0000°
IDC Error ellipse: s-maj=19.2km s-min=11.9km az=121.0.

(225) Off southeast coast of Hokkaido.

JMA III 02 10 42 35.7–.20 41.26N 146.55E 34 3.8
NIED III 02 10 42 00 41.30N 146.50E 35 3.8W **¶600535768**
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ58.00000°,λ174.00000°. NP2:ϕ_s112.00000°,δ85.00000°,λ32.00000°. $M_0$4.92000×10^{14}
ISC III 27 15 27 39.8–3.3 42.7N–.10 146.51E–.08 20–11 16 1-5
SKHL III 27 15 27 38.2–.60 42.37N 146.81E 50–1 4.2b **¶600568985**
JMA III 27 15 27 41.9–.20 42.71N 146.44E 53–4 3.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
IDC IV 01 00 48 06.7–2.0 42.65N 146.41E 0 3.8L,3.7
¶603308243
IDC Error ellipse: s-maj=57.9km s-min=34.2km az=167.0.
ISC IV 11 19 55 50.3–2.5 42.96N–.10 146.49E–.07 33–4 23 1-5
ISCJB IV 11 19 55 50.5–1.3 43.00N–.08 146.44E–.07 51–17 **¶600584117**
JMA IV 11 19 55 50.7–.10 42.98N 146.43E 54–2 3.2
SKHL IV 11 19 55 51.1–.30 42.97N 146.40E 44–3 4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=5.9km az=150.2.
JMA Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 15 13 15 21.9–1.5 42.77N–.04 146.18E–.04 0–8 4.6b,3.4s 146 1-84
NIED IV 15 13 15 00 42.70N 146.40E 23 4.2W,3.4s **¶16505390**
IDC IV 15 13 15 22.1–.77 42.83N 146.21E 0 4.4,4.3
MOS IV 15 13 15 23.1–1.3 42.74N 146.18E 23 4.8b,4.3
SKHL IV 15 13 15 24.4–.20 42.63N 146.31E 40–4 4.7b,4.3
JMA IV 15 13 15 24.4–.20 42.77N 146.31E 38–3 4.2,4.3
ISCJB IV 15 13 15 25.5–.78 42.77N–.04 146.20E–.05 40–5 4.4b,3.4s
BJI IV 15 13 15 25.0 42.70N 146.30E 30 4.8b,4.6b
NEIC IV 15 13 15 26.8–.54 42.76N 146.20E 35 4.4b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ65.00000°,λ156.00000°. NP2:ϕ_s9.00000°,δ68.00000°,λ27.00000°. $M_0$2.06000×10^{15}

IDC Error ellipse: s-maj=20.7km s-min=13.2km az=161.0.
MOS Error ellipse: s-maj=8.7km s-min=5.1km az=102.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=140.7.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=7.7km az=146.0. Recorded [1 JMA] in eastern Hokkaido.

ISC V 09 23 03 38.6–2.9 42.8N–.10 146.78E–.09 8–14 16 1-5
SKHL V 09 23 03 37.7–.20 42.60N 146.90E 35–5 4.5b **¶600610860**
JMA V 09 23 03 39.1–.50 42.86N 146.96E 60 3.0
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.

ISC V 10 01 19 03.0–2.6 42.77N–.10 146.76E–.09 3–14 17 1-5
SKHL V 10 01 19 02.8–.20 42.60N 146.90E 30–3 4.8b **¶600610911**
JMA V 10 01 19 03.8–.40 42.83N 146.96E 60 3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=4.1km az=-1.0.

(226) Near west coast of eastern Honshu.

ISC I 03 04 45 12.0–.62 38.55N–.03 139.25E–.03 17–3 4.8b,3.6s 259 0-151
NIED I 03 04 45 00 38.60N 139.30E 11 4.5W,3.6s **¶15902903**
IDC I 03 04 45 09.4–.44 38.60N 139.09E 0 4.7,4.6
ISCJB I 03 04 45 11.2–.41 38.60N–.02 139.18E–.03 18–3 4.6b,3.6s
JMA I 03 04 45 12.1 38.57N 139.26E 12–1 4.7,3.6s
BJI I 03 04 45 14.6 38.50N 139.10E 28 5.0b,4.6b
MOS I 03 04 45 14.7–1.2 38.55N 139.12E 48 4.9b,4.6b
NEIC I 03 04 45 15.3–.52 38.57N 139.10E 39–5 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ29.00000°,λ78.00000°. NP2:ϕ_s25.00000°,δ62.00000°,λ96.00000°. $M_0$6.29000×10^{15}
IDC Error ellipse: s-maj=13.6km s-min=11.1km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=141.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s223.00000°,δ46.00000°,λ94.00000°. NP2:ϕ_s37.00000°,δ44.00000°,λ86.00000°. Principal axes: T Plg87.0000°,Azm202.0000°; N Plg3.0000°,Azm40.0000°; P Plg1.0000°,Azm310.0000°
MOS Error ellipse: s-maj=7.8km s-min=4.8km az=101.8.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=130.0. Recorded [4 JMA] in Niigata; [2 JMA] in Fukushima and Yamagata; [1 JMA] in Akita, Gumma and Miyagi.

JMA I 31 07 39 38.0 37.29N 138.93E 12–1 2.5
¶600523941

JMA Event type fe.

JMA II 17 13 27 17.8 38.21N 138.16E 8–1 3.7
NIED II 17 13 27 00 38.20N 138.20E 5 3.4W **¶600530002**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ94.00000°. NP2:ϕ_s222.00000°,δ49.00000°,λ87.00000°. $M_0$1.24000×10^{14}

JMA II 18 04 04 38.2 37.30N 138.95E 13–1 2.7
¶600530210

JMA Event type fe.

ISC II 24 02 11 31.9–1.5 40.94N–.03 139.18E–.04 13–10 3.6b 36 1-89
NIED II 24 02 11 00 40.90N 139.00E 5 3.8W **¶17192765**
IDC II 24 02 11 30.2–1.2 40.99N 139.14E 0 3.8,3.6
ISCJB II 24 02 11 31.7–.81 40.93N–.03 139.10E–.04 24–6 3.6b,2.8s
JMA II 24 02 11 32.4–.10 40.90N 139.12E 29–2 4.1,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ57.00000°,λ-6.00000°. NP2:ϕ_s249.00000°,δ85.00000°,λ-146.00000°. $M_0$5.41000×10^{14}
IDC Error ellipse: s-maj=31.6km s-min=20.4km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.6km az=155.9.
JMA Event type fe.

ISC II 28 18 54 42.3–.85 37.35N–.09 137.6E–.10 248–8 3.1b 24 0-57
ISCJB II 28 18 54 41.4–.56 37.35N–.08 137.5E–.10 254–6 3.1b **¶17193012**
IDC II 28 18 54 42.3–.69 37.41N 137.56E 245–8 3.5,2.9
JMA II 28 18 54 43.0–.20 37.32N 137.36E 240–2 3.0,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=12.4km az=14.4.
IDC Error ellipse: s-maj=24.1km s-min=15.3km az=74.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 01 18 11 42.0–.10 40.16N 139.35E 20–1 3.6
NIED III 01 18 11 00 40.20N 139.30E 14 3.4W **¶600535567**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ74.00000°,λ171.00000°. NP2:ϕ_s323.00000°,δ81.00000°,λ16.00000°. $M_0$1.32000×10^{14}

JMA III 11 07 33 40.9 37.95N 138.10E 15–1 4.3
¶602653637

JMA Event type fe.

JMA III 11 07 34 34.8 38.01N 139.42E 16–1 4.2
¶602653632

JMA Event type fe.

JMA III 11 09 10 44.2 36.12N 136.51E 8–1 1.9
¶602653380

JMA III 11 09 19 25.2 36.12N 136.51E 8–1 2.0
¶603049335

JMA III 11 09 47 16.6 37.92N 137.68E 15–3 2.4
¶603049339

JMA III 11 10 09 39.0 36.12N 136.51E 9–1 4.0
¶602654219

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ76.00000°,λ-20.00000°. NP2:ϕ_s112.00000°,δ70.00000°,λ-165.00000°. Principal axes: T Plg4.0000°,Azm65.0000°; N Plg66.0000°,Azm164.0000°; P Plg24.0000°,Azm333.0000°

JMA III 11 11 20 24.3 36.12N 136.52E 8–1 1.5
¶602654040

JMA III 11 12 50 00.5 36.12N 136.49E 7–1 1.2
¶603049382

JMA III 11 13 56 05.4 36.13N 136.50E 7–1 1.2
¶603049400

JMA III 11 14 28 59.6 37.65N 138.62E 22–1 3.2
¶603049406

JMA Event type fe.

JMA III 11 15 52 33.0 36.13N 136.50E 7–1 1.1
¶603049424

JMA III 11 18 33 13.0–.10 38.04N 139.55E 15–2 1.7
¶603049464

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 19 03 37.0–.10 37.05N 138.61E 9–3 4.1
¶600540076

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 19 09 27.0 37.00N 138.56E 9–3 4.5
¶602707114

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 11 19 12 43.1–1.3 37.03N–.03 138.57E–.05 4–9 4.5b 32 0-92
IDC III 11 19 12 42.5–.61 37.12N 138.40E 0 4.5,4.3 **¶17194045**
ISCJB III 11 19 12 43.2–.72 37.07N–.03 138.56E–.04 15–4 4.4b,4.3
JMA III 11 19 12 44.7 37.03N 138.67E 12–2 4.3,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=7.8km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=28.8.
JMA Event type fe.

JMA III 11 19 16 10.5–.10 37.06N 138.59E 12–2 3.6
¶602653134

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 11 19 21 08.7–1.2 37.03N–.03 138.66E–.04 8–10 4.1b 22 0-69
IDC III 11 19 21 07.2–1.6 37.09N 138.68E 0 4.1,4.0 **¶602653123**
ISCJB III 11 19 21 09.0–.46 37.03N–.03 138.60E–.04 27–5 4.0b,4.0
JMA III 11 19 21 09.3–.10 37.04N 138.63E 13–2 3.7,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=13.9km s-min=11.4km az=21.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.8km az=44.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 19 26 02.5–.10 37.02N 138.66E 11–3 3.7
¶602653098

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 19 36 08.0 37.00N 138.59E 10–2 3.4
¶602652612

JMA Event type fe.

JMA III 11 19 40 30.6 37.00N 138.62E 11–2 2.6
¶603049474

JMA Event type fe.

JMA III 11 19 46 17.3–.10 37.03N 138.60E 14–2 4.1
¶16308466

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 11 19 46 50.1–.95 40.40N–.02 139.15E–.03 11–5 6.1s,6.1b 1459 1-164
NIED III 11 19 46 00 40.40N 139.10E 5 6.1W,6.1b **¶16476158**
JMA III 11 19 46 46.1–.30 40.39N 139.09E 4–3 6.4,6.1b
BJI III 11 19 46 48.7 40.30N 139.20E 20 6.5s,6.4
IDC III 11 19 46 49.1–.30 40.50N 139.18E 0 5.9,5.9s
ISCJB III 11 19 46 50.6–.07 40.51N–.01 139.16E–.02 21 6.2s,6.0b
GCMT III 11 19 46 50.9–.20 40.37N 139.09E 14–1 6.2W,6.0b
NEIC III 11 19 46 50.9–.10 40.48N 139.06E 10 6.2b,6.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ63.00000°,λ-12.00000°. NP2:ϕ_s26.00000°,δ79.00000°,λ-152.00000°. $M_0$1.60000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=9.4km s-min=7.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c70; s136,c265; Duration: $3_{\theta}1$ Moment tensor: Scale 10^{18}Nm; M_{rr}-0.00±.05 $M_{\theta\theta}$1.92±.05; $M_{\phi\phi}$-1.92±.05; $M_{r\theta}$0.42±.12; $M_{\theta\phi}$1.48±.05; $M_{\theta r}$-0.47±.12; Best double couple: NP1:ϕ_s296.00000°,δ85.00000°,λ-13.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ-175.00000°. Principal axes: T 2.4490,Plg6.0000°,Azm342.0000°; N 0.1050,Plg76.0000°,Azm96.0000°; P -2.5570,Plg13.0000°,Azm251.0000° $M_0$2.50300×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=135.0. Felt at Goshogawara, Misawa, Nagano, Nakanojo and Yokosuka. Also felt at Sapporo, Hokkaido. Recorded [4 JMA] in Akita, Aomori and Nagano, Honshu.

JMA III 11 20 03 16.9 37.02N 138.61E 9–3 3.8
¶602652539

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 20 03 23.2–.30 40.32N 139.12E 23–5 4.4
¶603145346

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 11 20 08 32.3–.52 40.65N–.07 139.17E–.06 15 4.5b 67 1-146
IDC III 11 20 08 29.9–.59 40.63N 139.12E 0 4.5,4.3 **¶602652517**
JMA III 11 20 08 29.2–.20 40.33N 139.14E 28–3 4.8,4.3
NEIC III 11 20 08 31.6–2.1 40.58N 139.13E 12–13 4.9b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=16.0km s-min=12.2km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=127.0. Recorded [3 JMA] in Aomori.

JMA III 11 21 09 50.0–.10 37.00N 138.62E 12–2 2.6
¶602652347

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 21 55 12.7–.10 37.06N 138.64E 12–2 3.0
¶603049500

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 11 22 11 22.7 37.01N 138.63E 10–2 2.6
¶602652254

JMA Event type fe.

JMA III 11 22 35 10.9–.10 37.06N 138.62E 12–2 2.5
¶603049508

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 12 00 39 11.3–4.4 40.40N–.04 139.24E–.06 16–28 4.3b 54 1-146
ISCJB III 12 00 39 08.6–1.7 40.44N–.03 139.18E–.05 8–11 4.2b **¶16442292**
JMA III 12 00 39 09.2–.30 40.40N 139.13E 16–4 4.7
IDC III 12 00 39 09.3–1.1 40.47N 139.16E 0 4.3,4.1
NEIC III 12 00 39 11.0–2.3 40.44N 139.24E 12–15 4.4b,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=18.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=16.7km az=174.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=130.0. Recorded [2 JMA] in Aomori.

JMA III 12 02 28 42.8 37.03N 138.60E 11–1 2.4
¶603049541

JMA Event type fe.

JMA III 12 03 11 29.5–.10 37.07N 138.63E 13–2 2.4
¶603049547

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 12 03 15 10.9–.10 40.40N 139.21E 19–1 3.6
¶602656413

JMA III 12 04 21 22.8–.40 40.44N 139.23E 15–3 3.9
¶602656278

JMA Error ellipse: s-maj=2.2km s-min=2.5km az=-1.0.

JMA III 12 05 59 09.3–.20 38.48N 138.48E 17–2 2.3
¶603049565

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 12 06 40 18.6–.10 37.06N 138.63E 11–2
¶603049570

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 12 06 40 19.6–.10 37.06N 138.63E 16–1 2.5
¶16308541

JMA Event type fe.

JMA III 12 07 46 59.1 37.02N 138.67E 11–2 2.7
¶603049580

JMA Event type fe.

JMA III 12 08 22 28.7 37.02N 138.70E 12–2 1.8
¶602656609

JMA III 12 09 20 45.8–.20 40.30N 139.15E 10–3 4.4
¶16309764

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA III 12 11 36 05.0–.10 40.30N 139.20E 6–4 3.7
¶16425384

JMA III 12 18 48 16.9–.10 40.35N 139.21E 19–2 4.0
¶602654849

JMA Event type fe.

JMA III 12 19 27 06.5 37.04N 138.64E 12–1 3.6
¶602654762

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s183.00000°,δ86.00000°,λ12.00000°. NP2:ϕ_s92.00000°,δ78.00000°,λ176.00000°. Principal axes: T Plg11.0000°,Azm48.0000°; N Plg77.0000°,Azm199.0000°; P Plg6.0000°,Azm317.0000°

JMA III 12 22 24 40.6–.10 40.30N 139.19E 11–3 3.3
¶603049658

ISC III 12 23 31 00.9–2.3 40.33N–.08 139.12E–.10 10 3.9b 8 1-64
ISCJB III 12 23 31 01.7–3.0 40.34N–.07 139.2E–.20 10 3.9b **¶602654551**
JMA III 12 23 31 02.6–.10 40.32N 139.21E 9–3 3.6
IDC III 12 23 31 05.8–1.1 38.37N 142.68E 0 4.1,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=9.6km az=0.3.
IDC Error ellipse: s-maj=63.4km s-min=21.2km az=118.0.

JMA III 13 01 14 30.8 37.03N 138.64E 11–2 1.6
¶603049674

ISC III 13 03 32 18.6–.64 37.02N–.03 138.65E–.03 10 4.1b 26 0-92
NIED III 13 03 32 00 37.00N 138.70E 8 4.2W **¶602658886**
IDC III 13 03 32 15.1–.73 37.10N 137.78E 0 4.2,3.9
JMA III 13 03 32 18.9 37.01N 138.67E 9–2 3.8,3.9
ISCJB III 13 03 32 18.1–.39 37.02N–.03 138.66E–.03 10 4.0b,3.9
NEIC III 13 03 32 20.6–.56 37.08N 137.82E 35 4.3b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ65.00000°,λ169.00000°. NP2:ϕ_s46.00000°,δ80.00000°,λ25.00000°. $M_0$1.91000×10^{15}

IDC Error ellipse: s-maj=25.1km s-min=20.7km az=94.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.7km az=152.5.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=15.8km az=123.0.
JMA III 13 07 57 43.0 36.13N 136.51E 8–1 1.1
¶17194789
JMA III 13 09 07 29.2 37.04N 138.63E 11–1 1.7
¶603049704
JMA III 13 12 37 12.0 37.01N 138.52E 10–1 1.7
¶600543885
JMA III 13 16 45 56.4 37.06N 138.65E 9–2 1.5
¶603049723
ISC III 15 21 15 30.5–.97 37.06N–.03 138.61E–.03 17–7 3.3b 29 0-57
IDC III 15 21 15 26.3–2.0 37.26N 138.84E 0 3.6,3.6L **¶602660928**
ISCJB III 15 21 15 30.4–.42 37.09N–.03 138.59E–.04 27–4 3.3b,3.6L
JMA III 15 21 15 31.0 37.06N 138.63E 13–2 3.6,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=17.8km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=135.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s76.00000°,δ88.00000°,λ-131.00000°. NP2:ϕ_s344.00000°,δ41.00000°,λ-3.00000°. Principal axes: T Plg31.0000°,Azm198.0000°; N Plg40.0000°,Azm77.0000°; P Plg34.0000°,Azm312.0000°
JMA III 15 22 12 37.5 37.05N 138.71E 7–2 2.3
¶17196275
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 05 24 15.8–1.5 40.43N–.04 139.32E–.05 13–10 3.7b 26 1-89
NIED III 17 05 24 00 40.40N 139.20E 35 4.4W **¶17196622**
IDC III 17 05 24 14.0–.88 40.49N 139.25E 0 4.0,3.8
ISCJB III 17 05 24 14.7–.99 40.41N–.04 139.18E–.05 17–8 3.7b,3.8
JMA III 17 05 24 15.5–.10 40.37N 139.21E 19–1 4.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ44.00000°,λ-119.00000°. NP2:ϕ_s103.00000°,δ52.00000°,λ-65.00000°. $M_0$4.48000×10^{15}
IDC Error ellipse: s-maj=23.5km s-min=19.1km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=6.6km az=144.1.
JMA Event type fe.
JMA III 17 14 58 12.8 37.03N 138.67E 10–2 2.8
¶602667869
JMA Event type fe.
JMA III 19 01 13 14.6 37.02N 138.64E 12–2 1.5
¶602675147
JMA III 20 08 39 55.1 37.02N 138.70E 11–1 1.1
¶602678172
IDC III 20 13 16 58.6–5.4 37.03N 138.68E 232–11 3.4,3.0
¶17197465
IDC Error ellipse: s-maj=222.8km s-min=16.2km az=62.0.
IDC III 23 01 21 32.1–32 37.33N 138.18E 0 3.9,3.5b
¶17198103
IDC Error ellipse: s-maj=1423.0km s-min=16.6km az=96.0.
JMA III 26 01 20 28.4 38.54N 139.99E 8–1 1.3
¶602695632
ISC III 26 07 08 50.9–1.6 40.30N–.03 139.25E–.06 7–10 3.5b 37 1-89
NIED III 26 07 08 00 40.30N 139.30E 5 3.5W **¶17198612**
IDC III 26 07 08 50.6–1.1 40.22N 139.39E 0 3.6,3.4
ISCJB III 26 07 08 50.1–.85 40.31N–.03 139.22E–.04 8–5 3.5b,3.4
JMA III 26 07 08 51.5–.10 40.29N 139.26E 16–2 3.9,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ41.00000°,λ127.00000°. NP2:ϕ_s140.00000°,δ58.00000°,λ62.00000°. $M_0$2.27000×10^{14}
IDC Error ellipse: s-maj=35.9km s-min=22.2km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=8.8.
ISC III 26 09 15 00.7–1.4 40.29N–.04 139.35E–.05 13–9 3.9b,3.4s 32 1-146
NIED III 26 09 14 00 40.30N 139.20E 5 4.0W,3.4s **¶17198622**
IDC III 26 09 14 58.9–.64 40.27N 139.26E 0 4.0,3.8
ISCJB III 26 09 14 58.8–1.2 40.31N–.04 139.24E–.04 11–8 3.7b,3.3s
JMA III 26 09 14 59.6–.10 40.29N 139.25E 17–1 4.2,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ47.00000°,λ54.00000°. NP2:ϕ_s188.00000°,δ54.00000°,λ122.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=18.9km s-min=14.5km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.9km az=162.5.
JMA Event type fe.
ISC III 26 12 36 04.7–1.0 37.64N–.04 138.30E–.04 24–9 3.6b 21 0-57
NIED III 26 12 36 00 37.70N 138.30E 29 3.6W **¶17198640**
IDC III 26 12 36 02.1–1.2 37.64N 138.38E 0 3.7,3.5
JMA III 26 12 36 04.8 37.66N 138.27E 25–1 3.9,3.5
ISCJB III 26 12 36 04.3–.47 37.66N–.04 138.28E–.04 31–4 3.6b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ28.00000°,λ140.00000°. NP2:ϕ_s141.00000°,δ72.00000°,λ68.00000°. $M_0$2.39000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s138.00000°,δ71.00000°,λ83.00000°. NP2:ϕ_s338.00000°,δ20.00000°,λ109.00000°. Principal axes: T Plg63.0000°,Azm37.0000°; N Plg6.0000°,Azm140.0000°; P Plg26.0000°,Azm233.0000°
ISCJB Event type fe.
ISC III 26 13 20 47.6–1.6 40.28N–.05 139.28E–.06 11–9 3.6b 20 1-89
IDC III 26 13 20 46.5–1.0 40.31N 139.29E 0 3.8,3.5 **¶17198642**
ISCJB III 26 13 20 47.0–1.3 40.29N–.04 139.22E–.08 16–10 3.5b,3.5
JMA III 26 13 20 47.3–.10 40.28N 139.24E 16–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=23.2km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.4km az=170.8.
JMA IV 08 07 07 56.2 36.12N 136.52E 9–1 2.6
¶600580694
JMA IV 10 19 36 39.6–.10 40.30N 139.16E 14–1 2.7
¶600582999
IDC IV 12 18 22 36.8–.91 37.18N 137.72E 134–11 3.3,3.0
¶602945430
IDC Error ellipse: s-maj=34.5km s-min=23.5km az=64.0.
JMA IV 12 22 21 22.1 37.05N 138.65E 10–1 1.9
¶600585978
JMA IV 13 16 58 26.3 37.01N 138.59E 9–2 1.1
¶600586807
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 14 06 15 58.4–.10 40.31N 139.33E 16–1 2.5
¶600587315
ISC IV 15 09 20 02.3–.80 37.22N–.07 137.13E–.07 254–7 3.1b 38 0-57
ISCJB IV 15 09 20 01.6–.47 37.23N–.05 137.12E–.07 258–5 3.1b **¶17201115**
JMA IV 15 09 20 01.6–.20 37.19N 137.13E 263–2 3.1
IDC IV 15 09 20 02.5–1.1 37.26N 137.22E 255–13 3.7,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.0km az=35.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=28.1km s-min=16.0km az=71.0.
ISC IV 16 12 33 30.7–1.6 38.7N–.30 139.6E–.20 17 3.7b 11 6-147
IDC IV 16 12 33 35.0–10 38.92N 139.55E 41–70 3.8,3.7 **¶17201224**
ISC Event type ke.
IDC Error ellipse: s-maj=96.9km s-min=21.6km az=174.0.
ISC IV 16 15 56 22.7–.51 37.00N–.03 138.70E–.02 8–2 4.7b,4.1s 336 0-149
NIED IV 16 15 56 00 37.10N 138.70E 5 4.7W,4.1s **¶16442663**
ISCJB IV 16 15 56 21.7–.40 37.02N–.02 138.65E–.02 11–2 4.5b,4.1s
IDC IV 16 15 56 21.1–.41 37.06N 138.64E 0 4.4,4.3L
BJI IV 16 15 56 22.8 37.10N 138.60E 9 4.9b,4.6s
JMA IV 16 15 56 22.4 37.02N 138.69E 8–2 4.9,4.6s
MOS IV 16 15 56 23.0–1.3 36.94N 138.62E 23 4.9b,4.1s
NEIC IV 16 15 56 23.8–.93 36.98N 138.55E 17–6 4.7b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ43.00000°,λ117.00000°. NP2:ϕ_s217.00000°,δ52.00000°,λ67.00000°. $M_0$1.16000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=155.4.
IDC Error ellipse: s-maj=12.7km s-min=6.6km az=112.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s85.00000°,δ66.00000°,λ-122.00000°. NP2:ϕ_s322.00000°,δ39.00000°,λ-41.00000°. Principal axes: T Plg15.0000°,Azm198.0000°; N Plg29.0000°,Azm100.0000°; P Plg57.0000°,Azm312.0000°
MOS Error ellipse: s-maj=7.2km s-min=4.5km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=5.0km az=153.0. Recorded [5L JMA] in Niigata.
ISC IV 16 19 17 51.7–1.0 37.03N–.03 138.70E–.03 9–9 3.7b,2.9s 26 0-77
IDC IV 16 19 17 50.2–1.3 37.07N 138.71E 0 3.8,3.6 **¶602557542**
ISCJB IV 16 19 17 51.7–.44 37.04N–.03 138.68E–.04 24–5 3.7b,3.2s
JMA IV 16 19 17 52.1 37.03N 138.69E 8–2 3.2,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=11.3km s-min=11.0km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.1km az=137.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s191.00000°,δ72.00000°,λ39.00000°. NP2:ϕ_s87.00000°,δ53.00000°,λ157.00000°. Principal axes: T Plg40.0000°,Azm55.0000°; N Plg48.0000°,Azm212.0000°; P Plg12.0000°,Azm315.0000°
ISC IV 16 19 36 36.8–.67 36.36N–.08 136.98E–.08 300 3.3b 25 0-93
ISCJB IV 16 19 36 35.4–.42 36.39N–.06 137.05E–.09 300 3.3b **¶17201253**
JMA IV 16 19 36 36.3–.20 36.35N 136.86E 280–2 3.4
IDC IV 16 19 36 37.0–.54 36.31N 136.89E 279–5 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.0km az=150.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=9.9km az=79.0.
JMA IV 19 08 05 09.9 37.03N 138.69E 11–1 1.3
¶600592491
ISC IV 21 02 58 47.8–.85 38.29N–.06 138.52E–.06 20–6 3.5b 21 0-148
IDC IV 21 02 58 49.1–.90 37.44N 140.30E 26–6 3.4,3.3 **¶17201667**
JMA IV 21 02 58 50.2 38.24N 138.63E 16–1 3.7,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.3km s-min=16.1km az=124.0.
JMA Event type fe.
JMA IV 25 22 30 46.6–.10 37.12N 138.64E 16–2 1.2
¶600599384
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 26 15 45 19.4 38.52N 140.00E 4–3 0.6
¶600600004
ISC IV 28 22 21 55.5–1.2 37.07N–.03 138.69E–.03 11–9 3.8b,3.1s 30 0-82
NIED IV 28 22 21 00 37.00N 138.70E 5 3.8W,3.1s **¶602558013**
IDC IV 28 22 21 53.6–1.2 37.14N 138.67E 0 3.9,3.8
ISCJB IV 28 22 21 55.8–.38 37.06N–.02 138.68E–.04 25–4 3.7b,3.1s
JMA IV 28 22 21 56.2 37.04N 138.71E 9–1 3.5,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ43.00000°,λ80.00000°. NP2:ϕ_s52.00000°,δ48.00000°,λ99.00000°. $M_0$6.06000×10^{14}
IDC Error ellipse: s-maj=30.6km s-min=10.6km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=16.1.
JMA Event type fe.
ISC V 06 09 00 14.1–1.2 37.64N–.03 138.11E–.04 10–7 4.2b 92 0-149
NIED V 06 09 00 00 37.70N 138.10E 8 4.2W **¶16500354**
IDC V 06 09 00 15.5–3.4 37.62N 138.00E 20–22 4.1,4.0
ISCJB V 06 09 00 15.1–.38 37.68N–.02 138.11E–.03 27–3 4.1b,3.4s
JMA V 06 09 00 15.1 37.71N 138.11E 18–1 4.2,3.4s
MOS V 06 09 00 15.9–1.1 37.64N 138.01E 33 4.3b,3.4s
NEIC V 06 09 00 18.3–.66 37.56N 138.03E 43–7 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ33.00000°,λ136.00000°. NP2:ϕ_s347.00000°,δ67.00000°,λ65.00000°. $M_0$1.89000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=11.6km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.6km az=164.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ79.00000°,λ48.00000°. NP2:ϕ_s233.00000°,δ43.00000°,λ163.00000°. Principal axes: T Plg41.0000°,Azm207.0000°; N Plg41.0000°,Azm346.0000°; P Plg22.0000°,Azm96.0000°
MOS Error ellipse: s-maj=11.9km s-min=7.7km az=99.2.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=6.6km az=99.0. Recorded [3 JMA] in Niigata.
JMA V 23 20 23 51.1 37.43N 136.65E 10–1 1.8
¶600621718
ISC V 27 18 33 19.9–.99 37.03N–.03 138.73E–.03 13–9 22 0-61
IDC V 27 18 33 18.2–1.8 37.09N 138.75E 0 3.6,3.5 **¶16551198**
ISCJB V 27 18 33 19.8–.50 37.05N–.03 138.70E–.04 29–5 3.5b,3.5
JMA V 27 18 33 20.5 37.04N 138.71E 8–2 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=13.6km s-min=12.8km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=41.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s82.00000°,δ86.00000°,λ146.00000°. NP2:ϕ_s175.00000°,δ57.00000°,λ5.00000°. Principal axes: T Plg26.0000°,Azm33.0000°; N Plg56.0000°,Azm256.0000°; P Plg20.0000°,Azm133.0000°
ISC VI 02 03 51 02.3–1.1 37.04N–.02 138.65E–.03 6–7 4.0b,3.3s 49 0-149
NIED VI 02 03 51 00 37.00N 138.70E 5 4.1W,3.3s **¶603243977**
ISCJB VI 02 03 51 02.9–.34 37.04N–.02 138.69E–.03 21–3 3.9b,3.4s
IDC VI 02 03 51 03.6–2.6 37.02N 138.56E 16–17 4.1,4.0
JMA VI 02 03 51 03.0 37.04N 138.71E 8–2 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ34.00000°,λ67.00000°. NP2:ϕ_s54.00000°,δ59.00000°,λ105.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=7.3.
IDC Error ellipse: s-maj=19.3km s-min=16.2km az=91.0.
JMA Event type fe.
ISC VI 02 07 01 48.9–1.2 37.04N–.04 138.72E–.04 14–10 24 0-57
IDC VI 02 07 01 47.9–2.3 37.06N 138.72E 0 4.2,4.2s **¶603243979**
ISCJB VI 02 07 01 49.5–.59 37.03N–.03 138.67E–.04 13–6 4.3s,4.0b
JMA VI 02 07 01 50.0 37.03N 138.69E 8–2 3.4,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=16.3km s-min=12.1km az=32.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=142.5.
JMA Event type fe.
JMA VI 02 19 23 58.2 37.05N 138.71E 8–2 1.4
¶600628982
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 09 04 33 36.8 36.35N 136.74E 7–1 3.7
NIED VI 09 04 33 00 36.40N 136.80E 5 4.0W **¶16580436**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s168.00000°,δ84.00000°,λ12.00000°. NP2:ϕ_s77.00000°,δ78.00000°,λ174.00000°. Principal axes: T Plg13.0000°,Azm33.0000°; N Plg76.0000°,Azm195.0000°; P Plg4.0000°,Azm302.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ68.00000°,λ12.00000°. NP2:ϕ_s259.00000°,δ79.00000°,λ158.00000°. $M_0$1.31000×10^{15}
JMA VI 19 13 12 34.9 37.00N 138.62E 10–1 1.4
¶600644661
ISC VI 22 00 26 32.8–.67 36.43N–.09 136.96E–.07 250 3.4b 27 1-150
JMA VI 22 00 26 32.9–.10 36.34N 137.06E 269–1 3.2 **¶17206712**
IDC VI 22 00 26 33.5–1.0 36.36N 136.99E 264–10 3.9,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=12.0km az=75.0.

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ISC I 01 15 34 34.6–.61 37.77N–.06 139.02E–.06 174–5 4.2b 82 0-84
NIED I 01 15 34 00 37.80N 139.00E 200 4.2W **¶15902603**
BJI I 01 15 34 30.2 37.78N 139.13E 163 4.9b,4.5b
ISCJB I 01 15 34 33.6–.28 37.77N–.05 139.00E–.06 179–2 4.1b,4.5b
JMA I 01 15 34 34.9–.10 37.76N 139.02E 173–1 3.9,4.5b
NEIC I 01 15 34 34.5–.56 37.80N 138.92E 173–5 4.5b,4.5b
IDC I 01 15 34 34.7–.69 37.74N 138.95E 175–6 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ13.00000°,λ-20.00000°. NP2:ϕ_s47.00000°,δ86.00000°,λ-102.00000°. $M_0$2.18000×10^{15}

ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.8km az=44.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s219.00000°,δ86.00000°,λ82.00000°. NP2: ϕ_s104.00000°,δ8.00000°,λ155.00000°. Principal axes: T Plg48.0000°,Azm121.0000° ; N Plg8.0000°,Azm219.0000°; P Plg41.0000°,Azm316.0000°
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.9km az=132.0.
IDC Error ellipse: s-maj=13.7km s-min=10.1km az=82.0.

ISC	**I**	**02 00 42 37.2–.95**	**35.56N–.03**	**138.79E–.04**	**14–7**	**3.6b**	**23**	**0-78**
NIED	I	02 00 42 00	35.60N	138.80E	20	3.7W		**¶15902731**
IDC	I	02 00 42 34.9–1.1	35.49N	138.66E	0	3.8,3.6b		
ISCJB	I	02 00 42 36.9–.42	35.56N–.03	138.80E–.05	25–5	3.6b,3.5s		
JMA	I	02 00 42 37.3	35.56N	138.78E	17–1	3.9,3.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ18.00000°,λ94.00000°. NP2:ϕ_s340.00000°,δ72.00000°,λ89.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=36.0km s-min=15.8km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.5km az=1.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ57.00000°,λ115.00000°. NP2:ϕ_s156.00000°,δ40.00000°,λ56.00000°. Principal axes: T Plg67.0000°,Azm337.0000°; N Plg21.0000°,Azm182.0000°; P Plg9.0000° ,Azm89.0000°

ISC	**I**	**02 17 59 09.0–1.3**	**38.93N–.04**	**140.63E–.03**	**2–11**		**18**	**0-63**
IDC	I	02 17 59 02.9–5.0	39.61N	140.41E	0	3.5,3.3b		**¶600514939**
ISCJB	I	02 17 59 08.4–.66	38.92N–.04	140.63E–.04	4–7	3.5b,3.3b		
JMA	I	02 17 59 08.9	38.93N	140.61E	3–1	2.8,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=147.7km s-min=51.8km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.8km az=0.3.
JMA Event type fe.

JMA	**I**	**03 03 24 15.9–.10**	**36.38N**	**137.66E**	**0–1**	**1.4**		**¶600515101**
ISC	**I**	**14 21 20 24.2–1.5**	**36.60N–.10**	**138.7E–.10**	**150**	**3.4b**	**13**	**0-68**
IDC	I	14 21 20 18.3–4.1	37.66N	139.19E	0	3.7,3.6		**¶17190213**
ISCJB	I	14 21 20 23.6–.78	36.62N–.09	138.7E–.20	150	3.4b,3.6		
JMA	I	14 21 20 23.8–.20	36.60N	138.65E	152–2	1.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=90.6km s-min=15.9km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=22.3km s-min=11.7km az=167.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**I**	**20 13 20 14.6–.91**	**37.03N–.04**	**139.92E–.05**	**16–6**	**3.5b**	**20**	**0-61**
NIED	I	20 13 20 00	37.00N	139.90E	5	4.0W		**¶15949108**
ISCJB	I	20 13 20 13.4–.80	37.04N–.05	140.04E–.06	18–4	3.5b		
JMA	I	20 13 20 14.8	37.04N	139.92E	14–1	3.7		
IDC	I	20 13 20 18.0–2.7	37.07N	140.05E	49–23	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ8.00000°,λ29.00000°. NP2:ϕ_s63.00000°,δ86.00000°,λ97.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=33.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s47.00000°,δ77.00000°,λ100.00000°. NP2:ϕ_s188.00000°,δ17.00000°,λ53.00000°. Principal axes: T Plg57.0000°,Azm330.0000°; N Plg10.0000°,Azm224.0000°; P Plg31.0000° ,Azm128.0000°
IDC Error ellipse: s-maj=24.0km s-min=17.1km az=111.0.

ISC	**I**	**23 08 08 17.2–.90**	**38.74N–.06**	**140.36E–.07**	**125–6**	**3.2b**	**27**	**0-63**
ISCJB	I	23 08 08 16.2–.57	38.74N–.06	140.37E–.09	131–4	3.1b		**¶17190784**
IDC	I	23 08 08 16.8–5.6	38.50N	140.87E	119–67	3.2,3.2		
JMA	I	23 08 08 17.1–.10	38.75N	140.34E	125–1	2.5,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=5.9km az=38.0.
IDC Error ellipse: s-maj=159.7km s-min=23.3km az=109.0.

JMA	**I**	**30 23 03 30.8**	**35.54N**	**138.94E**	**25–1**	**3.5**		
NIED	I	30 23 03 00	35.50N	138.90E	23	3.3W		**¶600523845**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s246.00000°,δ80.00000°,λ-162.00000°. NP2:ϕ_s152.00000°,δ72.00000°,λ-11.00000°. Principal axes: T Plg5.0000°,Azm18.0000°; N Plg69.0000°,Azm275.0000°; P Plg20.0000° ,Azm110.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ50.00000°,λ-6.00000°. NP2:ϕ_s254.00000°,δ85.00000°,λ-140.00000°. $M_0$1.14000×10^{14}

JMA	**II**	**05 14 55 46.4**	**39.05N**	**140.87E**	**7–1**	**0.2**		**¶600525783**
JMA	**II**	**05 22 25 04.0**	**35.92N**	**137.78E**	**11**	**3.7**		
NIED	II	05 22 25 00	35.90N	137.80E	20	3.6W		**¶16008974**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s145.00000°,δ84.00000°,λ-9.00000°. NP2:ϕ_s237.00000°,δ81.00000°,λ-174.00000°. Principal axes: T Plg2.0000°,Azm191.0000°; N Plg79.0000°,Azm291.0000°; P Plg11.0000° ,Azm101.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ70.00000°,λ-160.00000°. NP2:ϕ_s138.00000°,δ72.00000°,λ-21.00000°. $M_0$2.41000×10^{14}

ISC	**II**	**10 01 14 44.8–.80**	**36.77N–.04**	**139.52E–.07**	**136–6**	**3.5b**	**36**	**0-68**
ISCJB	II	10 01 14 43.7–.46	36.78N–.04	139.51E–.08	141–3	3.3b		**¶17191984**
JMA	II	10 01 14 44.8–.10	36.72N	139.57E	135–1	3.1		
IDC	II	10 01 14 45.2–1.6	36.79N	139.48E	140–10	3.7s,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.9km az=10.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.0km s-min=11.6km az=61.0.

ISC	**II**	**12 21 25 47.7–1.3**	**39.14N–.03**	**140.95E–.04**	**7–9**	**3.9b**	**40**	**0-76**
NIED	II	12 21 25 00	39.10N	141.00E	5	3.8W		**¶17192129**
ISCJB	II	12 21 25 47.8–.47	39.16N–.03	140.98E–.04	19–4	3.7b		
JMA	II	12 21 25 48.0	39.15N	140.95E	8	3.8		
IDC	II	12 21 25 53.9–2.4	39.14N	140.90E	54–22	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ38.00000°,λ111.00000°. NP2:ϕ_s226.00000°,δ55.00000°,λ74.00000°. $M_0$5.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=31.9.
JMA Event type fe.
IDC Error ellipse: s-maj=16.8km s-min=13.3km az=128.0.

JMA	**II**	**16 07 33 20.9–.20**	**36.50N**	**137.66E**	**2–2**			**¶600529576**
JMA	**II**	**16 07 33 24.8–.10**	**36.50N**	**137.67E**	**3–2**	**0.8**		**¶600529579**
ISC	**II**	**16 20 23 14.1–1.2**	**37.51N–.05**	**140.96E–.06**	**78–7**		**31**	**0-57**
ISCJB	II	16 20 23 13.3–.77	37.49N–.05	140.98E–.07	82–5	3.4b		**¶17192382**
JMA	II	16 20 23 14.6	37.50N	140.86E	76–1	3.3		
IDC	II	16 20 23 17.4–1.8	37.90N	140.32E	132–16	3.4,3.1		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.5km az=34.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s178.00000°,δ84.00000°,λ119.00000°. NP2:ϕ_s278.00000°,δ30.00000°,λ11.00000°. Principal axes: T Plg43.0000°,Azm116.0000°; N Plg29.0000°,Azm355.0000°; P Plg33.0000° ,Azm244.0000°
IDC Error ellipse: s-maj=36.8km s-min=13.3km az=115.0.

JMA	**II**	**25 19 01 06.4**	**35.20N**	**138.22E**	**29–1**	**2.7**		**¶600532588**

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s150.00000° ,δ81.00000°,λ-76.00000°. NP2:ϕ_s272.00000°,δ16.00000°,λ-147.00000°. Principal axes: T Plg35.0000°,Azm228.0000°; N Plg14.0000°,Azm328.0000°; P Plg52.0000°,Azm76.0000°

ISC	**II**	**26 17 18 59.3–.89**	**36.12N–.02**	**137.49E–.02**	**2–5**	**4.7b,4.3s**	**277**	**0-150**
NIED	II	26 17 18 00	36.20N	137.50E	5	4.8W,4.3s		**¶602354503**
ISCJB	II	26 17 18 58.8–.40	36.17N–.02	137.46E–.02	9–2	4.6b,4.2s		
IDC	II	26 17 18 58.0–.53	36.05N	137.50E	0	4.3,4.3		
JMA	II	26 17 18 58.9	36.16N	137.46E	4–1	5.0,4.3		
BJI	II	26 17 18 58.6	36.10N	137.50E	6	5.0b,4.5b		
NEIC	II	26 17 18 59.7–.82	36.13N	137.49E	7–5	4.9b,4.5b		
MOS	II	26 17 19 00.1–1.2	36.07N	137.47E	26	5.0b,4.0s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ45.00000°,λ109.00000°. NP2:ϕ_s45.00000°,δ48.00000°,λ71.00000°. $M_0$1.53000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.0km az=156.2.
IDC Error ellipse: s-maj=13.2km s-min=7.8km az=147.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s48.00000°,δ53.00000°,λ76.00000°. NP2:ϕ_s250.00000°,δ39.00000°,λ107.00000°. Principal axes: T Plg77.0000°,Azm270.0000°; N Plg11.0000°,Azm57.0000°; P Plg7.0000° ,Azm148.0000°
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=141.0. Felt at Nagoya and Takaoka. Recorded [4 JMA] in Gifu; [3 JMA] in Nagano; [2 JMA] in Ishikawa and Toyama; [1 JMA] in Aichi, Fukui, Mie, Niigata, Shiga, Shizuoka, Tokyo and Yamanashi.
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=85.6.

ISC	**II**	**26 20 38 03.2–.54**	**36.13N–.02**	**137.48E–.02**	**8–3**	**5.2b,4.7s**	**932**	**0-159**
NIED	II	26 20 38 00	36.10N	137.40E	5	5.1W,4.7s		**¶16160475**
IDC	II	26 20 38 01.4–.41	36.15N	137.38E	0	4.8,4.8		
ISCJB	II	26 20 38 02.2–.37	36.18N–.02	137.37E–.02	9–2	5.1b,4.6s		
JMA	II	26 20 38 02.6	36.16N	137.45E	4–1	5.5,4.6s		
BJI	II	26 20 38 02.4	36.10N	137.30E	5	5.1b,5.0s		
NEIC	II	26 20 38 02.4–.66	36.12N	137.35E	3–4	5.2b,5.0s		
MOS	II	26 20 38 02.3–1.2	36.22N	137.33E	12	5.3b,4.5s		
GCMT	II	26 20 38 02.4–.20	36.21N	137.38E	12	5.2W,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ52.00000°,λ130.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ51.00000°. $M_0$5.24000×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=7.3km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=148.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ53.00000°,λ66.00000°. NP2:ϕ_s266.00000°,δ43.00000°,λ119.00000°. Principal axes: T Plg70.0000°,Azm260.0000°; N Plg19.0000°,Azm64.0000°; P Plg5.0000° ,Azm156.0000°
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=144.0. Felt [II] at Kyoto and Nagoya. Felt widely in west-central Honshu. Recorded [4 JMA] in Gifu; [3 JMA] in Aichi, Ishikawa, Nagano and Toyama; [2 JMA] in Fukui, Kyoto, Mie, Osaka, Shiga and Shizuoka; [1 JMA] in Gumma, Hyogo, Kanagawa, Nara, Niigata, Okayama, Tokyo and Yamanashi.
MOS Error ellipse: s-maj=5.6km s-min=4.0km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c79; s85,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.99±.15 $M_{\theta\theta}$-3.50±.12; $M_{\phi\phi}$-1.49±.13; $M_{r\theta}$-2.53±.39; $M_{\theta\phi}$-4.38±.10; $M_{\phi r}$-1.03±.42; Best double couple: NP1:ϕ_s242.00000° ,δ58.00000°,λ103.00000°. NP2:ϕ_s38.00000°,δ35.00000°,λ70.00000°. Principal axes: T 5.6920,Plg74.0000°,Azm187.0000°; N 1.8470,Plg11.0000°,Azm55.0000° ; P -7.5400,Plg12.0000°,Azm322.0000° $M_0$6.61600×10^{16}

ISC	**II**	**26 20 44 04.8–2.8**	**36.1N–.10**	**137.45E–.05**	**3–25**		**11**	**0-56**
ISCJB	II	26 20 44 04.5–1.1	36.07N–.06	137.42E–.07	14–6	3.5b		**¶600533331**
IDC	II	26 20 44 04.5–1.4	36.05N	137.46E	0	3.7,3.5		
JMA	II	26 20 44 06.2	36.15N	137.44E	5–1	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=8.7km az=147.9.
IDC Error ellipse: s-maj=14.7km s-min=10.0km az=145.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s92.00000°,δ77.00000°,λ129.00000°. NP2:ϕ_s197.00000°,δ41.00000°,λ20.00000°. Principal axes: T Plg44.0000°,Azm40.0000°; N Plg38.0000°,Azm261.0000°; P Plg22.0000° ,Azm153.0000°

JMA	**II**	**26 20 49 05.5**	**36.15N**	**137.44E**	**6–1**	**0.8**		**¶600533354**
JMA	**II**	**26 21 05 24.9**	**36.15N**	**137.45E**	**6–1**	**2.9**		**¶600533464**

JMA Event type fe.

JMA	**II**	**26 21 41 40.0**	**36.15N**	**137.45E**	**5–1**	**3.1**		**¶600533647**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s81.00000°,δ57.00000°,λ134.00000°. NP2:ϕ_s200.00000°,δ53.00000°,λ43.00000°. Principal axes: T Plg54.0000°,Azm48.0000°; N Plg36.0000°,Azm232.0000°; P Plg2.0000° ,Azm141.0000°

JMA	**II**	**26 21 43 50.6**	**36.16N**	**137.45E**	**7–1**	**2.7**		**¶600533654**

JMA Event type fe.

JMA	**II**	**26 23 21 21.1**	**36.16N**	**137.45E**	**6–1**	**2.5**		**¶600533918**
JMA	**II**	**27 00 48 10.0**	**36.16N**	**137.47E**	**5–1**	**3.7**		
NIED	II	27 00 48 00	36.10N	137.50E	5	3.6W		**¶16161185**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s89.00000°,δ70.00000°,λ131.00000°. NP2:ϕ_s200.00000°,δ45.00000°,λ29.00000°. Principal axes: T Plg48.0000°,Azm43.0000°; N Plg38.0000°,Azm252.0000°; P Plg15.0000° ,Azm150.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ51.00000°,λ141.00000°. NP2:ϕ_s25.00000°,δ61.00000°,λ46.00000°. $M_0$2.98000×10^{14}

JMA	**II**	**27 02 22 59.4**	**36.15N**	**137.44E**	**5–1**	**3.1**		**¶600534113**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s39.00000°,δ47.00000°,λ81.00000°. NP2:ϕ_s232.00000°,δ43.00000°,λ100.00000°. Principal axes: T Plg83.0000°,Azm241.0000°; N Plg7.0000°,Azm45.0000°; P Plg2.0000° ,Azm135.0000°

JMA	**II**	**27 12 46 57.0**	**36.15N**	**137.45E**	**6–1**	**4.0**		
NIED	II	27 12 46 00	36.10N	137.40E	8	3.8W		**¶16161187**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s348.00000°,δ85.00000°,λ-24.00000°. NP2:ϕ_s80.00000°,δ66.00000°,λ-175.00000°. Principal axes: T Plg13.0000°,Azm36.0000°; N Plg66.0000°,Azm157.0000°; P Plg20.0000° ,Azm301.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ79.00000°,λ174.00000°. NP2:ϕ_s345.00000°,δ84.00000°,λ11.00000°. $M_0$5.34000×10^{14}

JMA	**II**	**27 17 25 20.3–.10**	**35.22N**	**138.39E**	**18–1**	**2.5**		**¶600534609**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s39.00000°,δ77.00000°,λ60.00000°. NP2:ϕ_s288.00000°,δ33.00000°,λ155.00000°. Principal axes: T Plg49.0000°,Azm276.0000°; N Plg29.0000°,Azm46.0000°; P Plg26.0000° ,Azm152.0000°

ISC	**II**	**27 19 03 27.2–.93**	**36.15N–.07**	**137.51E–.05**	**10**	**3.4b**	**15**	**0-60**
NIED	II	27 19 03 00	36.10N	137.50E	8	3.8W		**¶602354506**
ISCJB	II	27 19 03 25.7–.73	36.11N–.05	137.48E–.05	10	3.4b		
IDC	II	27 19 03 26.2–1.0	36.03N	137.61E	0	3.7,3.7L		
JMA	II	27 19 03 26.5	36.15N	137.45E	5–1	3.9,3.7L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ78.00000°,λ9.00000°. NP2:ϕ_s259.00000°,δ81.00000°,λ168.00000°. $M_0$5.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.3km az=170.8.
IDC Error ellipse: s-maj=23.6km s-min=9.2km az=136.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s82.00000°,δ89.00000°,λ179.00000°. NP2:ϕ_s172.00000°,δ89.00000°,λ1.00000°. Principal axes: T Plg1.0000°,Azm37.0000°; N Plg89.0000°,Azm217.0000°; P Plg0.0000° ,Azm127.0000°

JMA	**II**	**28 02 32 59.3**	**36.16N**	**137.48E**	**5–1**	**3.6**		
NIED	II	28 02 32 00	36.20N	137.50E	5	3.9W		**¶600534783**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ75.00000°,λ22.00000°. NP2:ϕ_s89.00000°,δ69.00000°,λ164.00000°. Principal axes: T Plg26.0000°,Azm48.0000°; N Plg64.0000°,Azm218.0000°; P Plg4.0000° ,Azm316.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ45.00000°,λ4.00000°. NP2:ϕ_s91.00000°,δ87.00000°,λ135.00000°. $M_0$8.81000×10^{14}

ISC	**III**	**01 07 50 19.5–3.0**	**36.1N–.20**	**137.45E–.04**	**2–24**		**11**	**0-56**
NIED	III	01 07 50 00	36.10N	137.40E	5	3.5W		**¶17193049**
ISCJB	III	01 07 50 18.9–1.2	36.10N–.07	137.41E–.07	13–6	3.7b		
JMA	III	01 07 50 19.9	36.16N	137.44E	5–1	3.4		
IDC	III	01 07 50 19.1–1.6	36.06N	137.46E	0	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ35.00000°,λ48.00000°. NP2:ϕ_s260.00000°,δ64.00000°,λ115.00000°. $M_0$1.94000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=9.9km az=171.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s90.00000°,δ68.00000°,λ131.00000°. NP2:ϕ_s203.00000°,δ46.00000°,λ31.00000°. Principal axes: T Plg49.0000°,Azm45.0000°; N Plg38.0000°,Azm251.0000°; P Plg13.0000° ,Azm151.0000°
IDC Error ellipse: s-maj=15.1km s-min=11.7km az=135.0.

ISC	**III**	**10 18 13 59.4–1.1**	**38.80N–.03**	**140.87E–.03**	**6–9**	**3.6b**	**26**	**0-62**
ISCJB	III	10 18 13 58.8–.51	38.80N–.03	140.87E–.04	13–4	3.5b		**¶16304053**
IDC	III	10 18 13 58.3–1.0	38.74N	140.81E	0	3.6,3.5		
JMA	III	10 18 13 59.3	38.80N	140.86E	5–1	3.4,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.7km az=42.5.
IDC Error ellipse: s-maj=29.8km s-min=13.7km az=118.0.
JMA Event type fe.

ISC	**III**	**10 21 41 22.6–.88**	**36.22N–.04**	**139.89E–.06**	**85–7**	**3.6b**	**29**	**0-56**
ISCJB	III	10 21 41 21.8–.55	36.21N–.03	139.90E–.07	92–4	3.4b		¶600538743
JMA	III	10 21 41 23.0–.10	36.23N	139.89E	81–1	3.2		
IDC	III	10 21 41 23.8–1.9	36.21N	139.83E	99–16	3.5,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.8km az=3.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.9km s-min=12.1km az=68.0.

JMA	**III**	**11 05 54 42.1**	**36.55N**	**137.69E**	**0**	**4.1**	

¶602653816

JMA Event type fe.

JMA	**III**	**11 05 57 17.7**	**36.25N**	**137.58E**	**2–1**	**4.7**	

¶602653806

JMA Event type fe.

JMA	**III**	**11 06 04 48.2**	**36.26N**	**137.57E**	**2**	**2.6**	

¶603049299

JMA Event type fe.

JMA	**III**	**11 06 05 02.4**	**36.26N**	**137.57E**	**2**		

¶600538890

JMA	**III**	**11 06 16 50.2**	**36.25N**	**137.58E**	**3**		

¶602653741

JMA	**III**	**11 06 32 30.8**	**36.71N**	**137.74E**	**0**	**3.6**	

¶602653712

JMA Event type fe.

JMA	**III**	**11 06 33 00.5**	**36.25N**	**137.57E**	**3**	**2.8**	

¶602653708

JMA Event type fe.

JMA	**III**	**11 06 33 42.6**	**36.25N**	**137.59E**	**3**	**2.5**	

¶602653704

JMA	**III**	**11 06 57 59.2–.10**	**39.00N**	**141.90E**	**48–1**	**4.1**	

¶602654493

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**11 07 50 20.6**	**36.24N**	**137.55E**	**4**	**1.9**	

¶600539063

JMA	**III**	**11 07 56 46.6**	**36.27N**	**137.57E**	**2**	**2.5**	

¶603049322

JMA	**III**	**11 08 15 35.3**	**36.25N**	**137.56E**	**2**	**3.2**	

¶603049324

JMA Event type fe.

JMA	**III**	**11 08 40 45.7**	**36.76N**	**139.47E**	**4–2**	**4.2**	

¶16304943

JMA Event type fe.

JMA	**III**	**11 08 58 07.7**	**36.81N**	**139.46E**	**3–1**	**4.1**	

¶602653426

JMA Event type fe.

ISC	**III**	**11 09 16 23.7–1.0**	**37.93N–.03**	**140.31E–.03**	**9–6**	**5.1b**	**368**	**0-156**
MOS	III	11 09 16 24.2–.99	37.96N	140.25E	21	5.4b		¶602653337
ISCJB	III	11 09 16 24.0–.35	37.89N–.02	140.28E–.02	20–2	5.0b		
JMA	III	11 09 16 24.1	37.90N	140.34E	7–2	5.1		
BJI	III	11 09 16 24.0	37.46N	140.34E	28	5.1b		
IDC	III	11 09 16 28.2–2.0	37.92N	140.26E	42–18	4.9,4.8		
NEIC	III	11 09 16 29.9–.38	37.97N	140.12E	54–3	5.0b,4.8		

ISC Event type ke.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=88.1.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.8km az=155.3.
JMA Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.2km az=112.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=129.0. Recorded [3 JMA] in Fukushima, Niigata and Yamagata.

JMA	**III**	**11 09 59 03.6**	**36.12N**	**137.55E**	**4–1**	**2.5**	

¶603310071

JMA	**III**	**11 10 38 06.2**	**36.26N**	**137.56E**	**2**	**3.6**	

¶602654139

JMA Event type fe.

JMA	**III**	**11 10 40 08.0**	**36.25N**	**137.57E**	**3**	**1.4**	

¶603049349

JMA	**III**	**11 10 40 53.7**	**36.82N**	**139.46E**	**4**	**3.5**	

¶603049348

JMA Event type fe.

JMA	**III**	**11 10 53 46.9**	**37.28N**	**140.98E**	**28**	**3.5**	

¶602654085

JMA Event type fe.

ISC	**III**	**11 10 54 13.0–.79**	**37.18N–.08**	**140.7E–.20**	**61–6**	**4.4b**	**17**	**0-90**
IDC	III	11 10 53 58.8–.76	35.97N	140.68E	0	4.5,4.3		¶17193779
JMA	III	11 10 54 11.9–.10	37.08N	141.30E	50–1	4.2,4.3		
ISCJB	III	11 10 54 12.0–.53	37.18N–.07	140.7E–.10	68–3	4.2b,4.3		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

JMA	**III**	**11 11 02 27.7**	**36.50N**	**137.48E**	**11–1**	**2.9**	

¶17193789

JMA	**III**	**11 11 10 54.8**	**36.86N**	**139.33E**	**5–1**	**3.5**	

¶603049357

JMA Event type fe.

ISC	**III**	**11 11 31 07.4–1.0**	**38.17N–.02**	**140.48E–.03**	**6–6**	**5.1b**	**132**	**0-151**
IDC	III	11 11 31 05.5–.51	38.05N	140.47E	0	5.0,4.8		¶602654033
ISCJB	III	11 11 31 06.7–.48	38.19N–.02	140.48E–.02	4–3	4.9b,4.8		
JMA	III	11 11 31 07.0	38.18N	140.49E	9–1	5.2,4.8		
MOS	III	11 11 31 09.7–1.5	38.12N	140.33E	33	5.3b,4.8		
NEIC	III	11 11 31 14.0–.79	38.09N	140.12E	58–8	5.1b,4.8		

ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=12.7km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.0km az=11.2.
JMA Event type fe.
MOS Error ellipse: s-maj=12.6km s-min=7.0km az=69.4.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=118.0. Recorded [4 JMA] in Miyagi and Yamagata.

JMA	**III**	**11 11 32 02.6–.10**	**37.07N**	**140.95E**	**37–1**	**3.8**	

¶603049361

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**11 11 32 23.7**	**36.86N**	**139.33E**	**5–1**	**3.1**	

¶602654031

ISC	**III**	**11 11 44 21.9–.96**	**37.4N–.20**	**140.6E–.20**	**87**	**4.7b**	**11**	**23-78**
IDC	III	11 11 44 20.7–10	37.38N	140.53E	75–98	4.6,4.5		¶16476346
ISCJB	III	11 11 44 20.2–.74	37.3N–.10	140.5E–.20	87	4.4b,4.5		

ISC Event type ke.
ISCJB Event type ke.

JMA	**III**	**11 11 51 02.5**	**36.87N**	**139.33E**	**6–1**	**2.2**	

¶602654002

JMA	**III**	**11 12 29 04.3**	**35.23N**	**139.00E**	**4–1**	**1.7**	

¶603049373

JMA	**III**	**11 12 51 59.3**	**36.99N**	**139.42E**	**8–1**	**2.5**	

¶602653920

JMA Event type fe.

IDC	**III**	**11 13 38 16.9–1.1**	**39.71N**	**140.17E**	**0**	**4.2,4.0**	

¶17193884

IDC Error ellipse: s-maj=61.5km s-min=25.0km az=106.0.

IDC	**III**	**11 14 38 00.2–4.6**	**37.57N**	**140.95E**	**48–68**	**4.2,4.2**	

¶602653020

IDC Error ellipse: s-maj=96.5km s-min=36.7km az=179.0.

JMA	**III**	**11 14 42 36.7**	**36.46N**	**137.58E**	**9–2**	**0.9**	

¶603049414

JMA	**III**	**11 14 52 51.0**	**36.52N**	**137.63E**	**0**	**1.2**	

¶603049415

ISC	**III**	**11 14 59 54.0–1.0**	**38.7N–.20**	**140.9E–.20**	**10**	**4.4b**	**13**	**18-89**
ISCJB	III	11 14 59 52.1–.93	38.7N–.10	140.9E–.20	10	4.3b		¶17193955
IDC	III	11 14 59 52.5–1.2	38.69N	140.92E	0	4.4,4.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=16.4km az=161.9.
IDC Error ellipse: s-maj=30.2km s-min=24.3km az=172.0.

JMA	**III**	**11 15 05 57.9**	**36.26N**	**137.58E**	**3**	**0.9**	

¶603049419

JMA	**III**	**11 15 11 42.8**	**36.25N**	**137.56E**	**2**	**3.8**	

¶602652959

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s72.00000°,δ53.00000°,λ104.00000°. NP2:ϕ_s230.00000°,δ39.00000°,λ73.00000°. Principal axes: T Plg77.0000°,Azm30.0000°; N Plg11.0000°,Azm243.0000°; P Plg7.0000°,Azm152.0000°

JMA	**III**	**11 15 24 39.9**	**36.80N**	**139.31E**	**6–1**	**4.5**	

¶602652949

JMA Event type fe.

JMA	**III**	**11 15 53 47.8–.10**	**37.27N**	**140.99E**	**26–1**	**3.3**	

¶603049426

JMA Event type fe.

JMA	**III**	**11 15 54 04.5**	**36.89N**	**139.41E**	**3–1**	**2.1**	

¶603049425

JMA	**III**	**11 16 12 03.4**	**36.81N**	**139.47E**	**4–1**	**2.2**	

¶602653543

JMA Event type fe.

JMA	**III**	**11 16 19 03.7**	**36.19N**	**137.64E**	**4–1**	**1.6**	

¶603049433

JMA	**III**	**11 17 00 18.3**	**36.81N**	**139.44E**	**4**	**1.9**	

¶602652875

JMA	**III**	**11 17 12 40.5**	**36.82N**	**139.50E**	**5–1**	**2.8**	

¶603049445

JMA Event type fe.

ISC	**III**	**11 17 30 19.1–.98**	**38.3N–.10**	**140.8E–.10**	**17**	**3.8b**	**16**	**3-90**
ISCJB	III	11 17 30 17.3–.74	38.3N–.10	140.7E–.10	17	3.9b		¶17194009
IDC	III	11 17 30 17.2–1.6	38.17N	141.07E	0	4.1,3.9b		
NEIC	III	11 17 30 21.4–1.1	37.62N	140.68E	73–13	4.2b,3.9b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=10.8km az=141.9.
IDC Error ellipse: s-maj=44.3km s-min=28.0km az=137.0.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=12.5km az=139.0.

JMA	**III**	**11 18 03 05.9–.10**	**36.55N**	**137.65E**	**9–2**	**1.1**	

¶603049458

JMA	**III**	**11 18 05 16.5**	**37.04N**	**139.27E**	**5–1**	**1.8**	

¶603049460

JMA	**III**	**11 18 28 19.7**	**36.82N**	**139.50E**	**5–1**	**2.6**	

¶602652663

JMA Event type fe.

ISC	**III**	**11 18 53 57.9–1.3**	**38.92N–.05**	**140.55E–.08**	**20–7**	**4.2b**	**34**	**0-146**
NEIC	III	11 18 53 52.4–.82	38.34N	140.65E	10	4.4b		¶16476574
JMA	III	11 18 53 55.7–.20	38.99N	140.75E	1–2	3.8		
IDC	III	11 18 53 55.0–.75	38.97N	140.49E	0	4.2,4.0		
ISCJB	III	11 18 53 57.1–.91	38.96N–.05	140.66E–.08	29–6	4.1b,4.0		

ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

JMA	**III**	**11 18 59 06.5**	**36.24N**	**137.55E**	**4**	**1.3**	

¶602652630

ISC	**III**	**11 18 59 17.7–.34**	**37.00N–.02**	**138.54E–.02**	**15–1**	**6.2s,6.0b**	**1858**	**0-164**
NIED	III	11 18 59 00	37.00N	138.60E	5	6.2W,6.0b		¶600540067
BJI	III	11 18 59 07.7	36.95N	139.42E	10	6.6s,6.4		
IDC	III	11 18 59 14.4–.29	37.00N	138.46E	0	6.3,6.3s		
ISCJB	III	11 18 59 15.9–.06	37.04N–.01	138.47E–.01	14	6.2s,5.9b		
JMA	III	11 18 59 15.6	36.99N	138.60E	8–2	6.7,5.9b		
NEIC	III	11 18 59 16.5–.75	37.01N	138.38E	9–4	6.2W,6.1s		
GCMT	III	11 18 59 16.5–.20	37.06N	138.60E	12	6.3W,6.1s		
MOS	III	11 18 59 17.7–1.1	37.05N	138.42E	30	6.2b,6.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ38.00000°,λ117.00000°. NP2:ϕ_s29.00000°,δ56.00000°,λ70.00000°. $M_0$2.13000×10^{18}
IDC Error ellipse: s-maj=10.9km s-min=6.8km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=147.8.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s253.00000°,δ80.00000°,λ110.00000°. NP2:ϕ_s8.00000°,δ23.00000°,λ27.00000°. Principal axes: T Plg51.0000°,Azm186.0000°; N Plg20.0000°,Azm69.0000°; P Plg32.0000°,Azm326.0000°
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=132.0. Recorded [6U JMA] in Nagano. Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}2.06 $M_{\theta\theta}$-1.52 $M_{\phi\phi}$-0.54 $M_{r\theta}$-0.29 $M_{\theta\phi}$-1.34 $M_{\phi r}$-0.19 Best double couple: NP1:ϕ_s236.00000°,δ49.00000°,λ91.00000°. NP2:ϕ_s55.00000°,δ41.00000°,λ89.00000°. Principal axes: T 2.0900,Plg86.0000°,Azm152.0000°; N 0.4000,Plg1.0000°,Azm55.0000°; P -2.4800,Plg4.0000°,Azm325.0000° $M_0$2.30000×10^{18}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s111,c212; Duration: 3$_9$4 Moment tensor: Scale 10^{18}Nm; M_{rr}2.35±.07 $M_{\theta\theta}$-1.43±.06; $M_{\phi\phi}$-0.92±.06; $M_{r\theta}$-2.03±.20; $M_{\theta\phi}$-1.96±.05; $M_{\phi r}$-0.51±.22; Best double couple: NP1:ϕ_s247.00000°,δ65.00000°,λ110.00000°. NP2:ϕ_s26.00000°,δ32.00000°,λ53.00000°. Principal axes: T 3.2620,Plg64.0000°,Azm192.0000°; N 0.4790,Plg18.0000°,Azm59.0000°; P -3.7420,Plg18.0000°,Azm322.0000° $M_0$3.50200×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=106.4.

JMA	**III**	**11 19 01 22.0–.10**	**36.99N**	**138.62E**	**9–2**	**3.8**	

¶602652629

JMA	**III**	**11 19 01 32.0–.20**	**36.95N**	**138.61E**	**1–2**	**3.9**	

¶602652626

JMA Event type fe.

JMA	**III**	**11 19 04 30.2–.10**	**36.96N**	**138.59E**	**8–2**	**3.8**	

¶602653177

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**11 19 10 43.7–.20**	**36.94N**	**138.59E**	**0–2**	**4.2**	

¶602653163

JMA Event type fe.

JMA	**III**	**11 19 11 25.9**	**36.95N**	**138.59E**	**6–3**	**3.7**	

¶602653157

JMA Event type fe.

JMA	**III**	**11 19 15 20.0**	**36.95N**	**138.61E**	**0**	**3.6**	

¶602653143

JMA Event type fe.

JMA	**III**	**11 19 18 20.2–.10**	**36.50N**	**137.62E**	**0–1**	**1.9**	

¶603049470

JMA	**III**	**11 19 31 34.0**	**36.94N**	**138.58E**	**0**	**3.1**	

¶602653073

JMA Event type fe.

ISC	**III**	**11 19 31 56.2–.48**	**36.94N–.02**	**138.51E–.03**	**15–2**	**5.4b**	**1065**	**0-158**
NIED	III	11 19 31 00	36.90N	138.60E	5	5.6W		¶17194054
IDC	III	11 19 31 54.1–.32	36.99N	138.39E	0	5.2s,5.2		
ISCJB	III	11 19 31 54.9–.46	36.93N–.02	138.41E–.02	15–3	6.1s,5.3b		
BJI	III	11 19 31 55.8	36.90N	138.30E	12	5.8s,5.6b		
JMA	III	11 19 31 55.6–.20	36.95N	138.57E	1–3	5.9,5.6b		
MOS	III	11 19 31 56.9–1.1	36.94N	138.37E	29	5.6b,5.6b		
NEIC	III	11 19 31 56.2–.71	36.94N	138.30E	12–4	5.7s,5.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ51.00000°,λ141.00000°. NP2:ϕ_s23.00000°,δ61.00000°,λ46.00000°. $M_0$2.63000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=140.1.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=125.0. Recorded [6L JMA] in Nagano.

JMA	**III**	**11 19 34 55.2**	**36.95N**	**138.55E**	**0**	**3.6**	

¶602652619

JMA Event type fe.

ISC	**III**	**11 19 44 28.2–1.1**	**36.88N–.03**	**138.67E–.04**	**9–7**	**4.3b**	**32**	**0-92**
IDC	III	11 19 44 26.6–.77	37.00N	138.60E	0	4.3,4.1		¶16476146
NEIC	III	11 19 44 27.7–2.9	36.79N	138.80E	6–17	4.6b,4.1		
JMA	III	11 19 44 28.3	36.94N	138.60E	0	4.2,4.1		

ISCJB III 11 19 44 28.4–.39 36.90N–.03 138.59E–.04 24–3 4.1b,4.1
ISC Event type se.
NEIC Event type fe. Recorded [4 JMA] in Nagano and Niigata.
JMA Event type fe.
ISCJB Event type fe.
JMA III 11 19 49 21.0–.10 36.92N 138.58E 2–2 3.9 ¶602652583
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 19 57 52.0 36.92N 138.54E 0 3.8 ¶602652558
JMA Event type fe.
JMA III 11 19 59 08.5 36.92N 138.56E 0 2.5 ¶600540220
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 20 20 54.1–1.1 36.98N–.03 138.62E–.03 8–8 3.9b 23 0-82
IDC III 11 20 20 52.7–1.1 37.03N 138.60E 0 4.1,3.8 **¶17194082**
ISCJB III 11 20 20 53.8–.45 36.97N–.03 138.62E–.04 20–5 3.8b,3.8
JMA III 11 20 20 54.0 36.99N 138.62E 7–2 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=32.5km s-min=9.3km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=34.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 20 34 32.3 36.94N 138.59E 7–1 2.4 ¶603049484
JMA Event type fe.
JMA III 11 20 36 14.1 36.94N 138.57E 6–1 3.6 ¶602652431
JMA Event type fe.
JMA III 11 20 42 19.8 36.97N 138.59E 4–2 5.3
NIED III 11 20 42 00 37.00N 138.60E 5 5.0W **¶600540294**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ63.00000°,λ166.00000°. NP2:ϕ_s184.00000°,δ78.00000°,λ28.00000°. $M_0$3.84000×10^{16}
IDC III 11 20 53 39.7–17 38.96N 140.60E 88–163 4.1,3.8 ¶16476156
IDC Error ellipse: s-maj=32.8km s-min=23.4km az=91.0.
ISC III 11 20 56 26.0–1.1 36.99N–.04 138.62E–.04 8–19 11 0-60
JMA III 11 20 56 25.9 36.98N 138.62E 10–1 3.0 **¶602652375**
ISCJB III 11 20 56 26.1–.62 36.97N–.03 138.63E–.05 2–9 3.9b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 11 20 57 17.3 36.92N 138.53E 0 2.8 ¶602652372
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 21 00 02.1–.20 36.91N 138.54E 0–3 2.2 ¶602652362
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 21 11 06.9 36.94N 138.53E 7–1 3.7 ¶602652344
JMA Event type fe.
JMA III 11 21 11 30.2 36.95N 138.56E 5–1 3.5 ¶602652341
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 21 19 20.3 36.92N 138.52E 0 3.7 ¶602652326
JMA Event type fe.
JMA III 11 21 30 01.6–.10 36.93N 138.54E 3–2 3.1 ¶602652303
JMA Event type fe.
JMA III 11 21 30 43.9 36.96N 138.60E 5–2 3.0 ¶603049497
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 21 34 45.1 36.97N 138.58E 7–2 3.5 ¶16308477
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 21 46 55.8–.10 36.98N 138.60E 8–1 2.0 ¶603049498
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 22 01 45.2–1.3 36.97N–.04 138.63E–.04 12–12 22 0-65
IDC III 11 22 01 42.6–1.4 37.05N 138.71E 0 3.8,3.6 **¶17194125**
JMA III 11 22 01 46.5 36.94N 138.61E 4–1 3.9,3.6
ISCJB III 11 22 01 46.3–.48 36.91N–.03 138.60E–.04 9–7 3.7b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 11 22 14 04.4–1.1 36.99N–.03 138.61E–.04 12–7 4.3b 63 0-146
IDC III 11 22 14 02.9–.49 37.07N 138.57E 0 4.3,4.2 **¶16425266**
JMA III 11 22 14 04.8 36.99N 138.64E 10–2 4.2,4.2
NEIC III 11 22 14 04.8–.87 37.00N 138.59E 13–6 4.2,4.2
ISCJB III 11 22 14 04.4–.39 36.99N–.03 138.62E–.04 23–3 4.2b,4.2
ISC Event type se.
JMA Event type fe.
NEIC Event type fe. Recorded [4 JMA] in Niigata.
ISCJB Event type fe.
ISC III 11 22 18 05.2–1.0 36.96N–.03 138.65E–.04 13–8 3.7b 30 0-73
IDC III 11 22 18 03.8–1.2 37.03N 138.64E 0 3.7b,3.6 **¶600540447**
ISCJB III 11 22 18 05.6–.38 36.96N–.03 138.58E–.04 26–4 3.6b,3.6
JMA III 11 22 18 06.0 36.97N 138.61E 7–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=11.6km s-min=8.8km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.1km az=41.7.
JMA Event type fe.
JMA III 11 22 23 31.4 36.93N 138.60E 3–1 2.8 ¶602652237
JMA Event type fe.
JMA III 11 22 36 50.7–.10 36.49N 137.62E 10–2 1.5 ¶603049510
JMA III 11 22 41 08.9 35.24N 139.00E 3–1 0.9 ¶603049511
JMA III 11 22 43 24.9 36.21N 138.01E 5–1 1.2 ¶602652201
JMA III 11 22 50 49.4 36.25N 137.59E 4–1 1.1 ¶603049512
ISC III 11 23 11 52.2–.86 37.18N–.03 140.90E–.04 14–5 4.5b 89 0-147
ISCJB III 11 23 11 51.3–.70 37.18N–.03 141.05E–.04 19–4 4.4b **¶16425283**
JMA III 11 23 11 52.0 37.18N 140.97E 10–1 4.6
NEIC III 11 23 11 56.8–1.2 37.27N 140.91E 45–10 4.6
IDC III 11 23 11 56.6–2.3 37.24N 140.83E 44–21 4.4,4.3
NIED III 11 23 12 00 36.70N 140.60E 5 4.5W,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.0km az=38.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=8.0km az=137.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=135.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ40.00000°,λ-90.00000°. NP2:ϕ_s330.00000°,δ50.00000°,λ-90.00000°. $M_0$7.37000×10^{15}
JMA III 11 23 20 19.4 36.34N 137.68E 3–1 1.5 ¶602652135
JMA III 11 23 32 23.6 36.93N 138.56E 5–1 3.7 ¶602652111
JMA Event type fe.
JMA III 11 23 33 37.9 36.95N 138.56E 9–1 2.5 ¶603049516
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 23 57 22.7 36.95N 138.56E 6–2 3.4 ¶16425307
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 00 28 56.1 36.99N 138.60E 6–2 2.8 ¶602656930
JMA Event type fe.

JMA III 12 00 52 56.3–.10 38.21N 140.65E 13–2 3.5 ¶603049529
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 00 57 49.8 36.15N 137.55E 3–1 1.0 ¶603049530
ISC III 12 01 12 09.5–.58 37.00N–.02 140.68E–.03 10–3 4.8b 262 0-153
NIED III 12 01 12 00 37.00N 140.80E 8 4.6W **¶16308502**
IDC III 12 01 12 07.8–.37 37.03N 140.66E 0 4.7,4.7
ISCJB III 12 01 12 09.9–.39 37.01N–.02 140.73E–.03 19–2 4.7b,4.7
JMA III 12 01 12 09.8 37.01N 140.74E 11–1 4.8,4.7
NEIC III 12 01 12 14.0–.52 37.07N 140.56E 38–4 4.8b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ31.00000°,λ-41.00000°. NP2:ϕ_s148.00000°,δ70.00000°,λ-114.00000°. $M_0$8.11000×10^{15}
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=33.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ79.00000°,λ-53.00000°. NP2:ϕ_s154.00000°,δ39.00000°,λ-163.00000°. Principal axes: T Plg25.0000°,Azm112.0000°; N Plg37.0000°,Azm222.0000°; P Plg43.0000°,Azm356.0000°
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=131.0. Recorded [3 JMA] in Fukushima and Ibaraki.
ISC III 12 01 32 55.9–1.1 37.00N–.03 138.61E–.04 11–10 16 0-57
IDC III 12 01 32 53.6–2.5 37.07N 138.64E 0 4.3,4.2b **¶600540678**
ISCJB III 12 01 32 55.3–.65 37.01N–.04 138.60E–.06 27–7 4.3b,4.2b
JMA III 12 01 32 55.6 37.03N 138.60E 8–3 3.8,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=11.5km az=31.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=27.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 01 42 35.2 36.98N 138.60E 6–2 3.7 ¶602656686
JMA Event type fe.
JMA III 12 01 59 25.1 36.97N 138.59E 7–1 2.1 ¶603049534
JMA Event type fe.
JMA III 12 02 07 58.4 36.93N 138.60E 4–1 2.7 ¶603049536
JMA III 12 02 14 37.4 36.92N 138.60E 0 2.1 ¶602656670
JMA Event type fe.
JMA III 12 03 00 44.2 36.15N 137.57E 3–1 1.5 ¶603049544
IDC III 12 03 08 31.5–15 39.29N 141.53E 150–129 4.5,4.2 ¶16461438
IDC Error ellipse: s-maj=87.6km s-min=30.7km az=3.0.
JMA III 12 03 11 08.6 36.16N 137.55E 3–1 1.3 ¶602656416
JMA III 12 03 30 20.0 35.23N 139.00E 2–1 1.9 ¶603049551
JMA III 12 04 41 55.2 35.28N 138.40E 11–1 1.9 ¶603049556
JMA III 12 04 43 00.9 36.95N 138.57E 7–2 3.5 ¶602656818
JMA Event type fe.
JMA III 12 05 02 02.7 36.87N 139.34E 4 1.7 ¶602656775
JMA III 12 05 12 16.6 37.14N 140.70E 7–1 2.0 ¶603049559
JMA III 12 05 28 41.4 36.90N 139.72E 4–1 1.7 ¶602656223
ISC III 12 05 39 31.9–.88 37.01N–.03 140.72E–.05 15–6 3.9b 29 0-82
ISCJB III 12 05 39 30.9–.79 36.97N–.04 140.90E–.06 19–4 3.8b **¶16476813**
JMA III 12 05 39 32.3 37.01N 140.75E 13–1 3.8
IDC III 12 05 39 38.0–4.2 36.97N 140.72E 66–35 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.4km az=27.7.
IDC Error ellipse: s-maj=31.5km s-min=20.0km az=83.0.
ISC III 12 05 50 43.7–1.1 36.90N–.04 138.57E–.05 35 12 0-60
IDC III 12 05 50 43.3–2.9 36.77N 138.46E 51–13 3.8,3.8 **¶600541008**
ISCJB III 12 05 50 44.6–.52 36.91N–.04 138.59E–.05 35 3.9b,3.8
JMA III 12 05 50 45.6 36.94N 138.60E 4–1 3.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=45.5km s-min=7.4km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.7km az=35.0.
JMA Event type fe.
ISC III 12 05 55 12.8–1.1 36.98N–.04 138.52E–.03 8–7 4.4b 51 0-154
NIED III 12 05 55 00 36.90N 138.60E 5 4.2W **¶602656149**
IDC III 12 05 55 11.6–.61 37.02N 138.48E 0 4.1,3.9b
NEIC III 12 05 55 12.4–1.7 37.06N 138.47E 4–11 4.5b,3.9b
ISCJB III 12 05 55 12.7–.46 36.97N–.03 138.50E–.04 20–4 4.3b,3.9b
JMA III 12 05 55 13.4 36.95N 138.56E 7–2 4.2,3.9b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ57.00000°,λ151.00000°. NP2:ϕ_s194.00000°,δ66.00000°,λ37.00000°. $M_0$2.02000×10^{15}
IDC Error ellipse: s-maj=21.4km s-min=7.3km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=8.9km az=131.0. Recorded [4 JMA] in Nagano.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=44.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s94.00000°,δ90.00000°,λ161.00000°. NP2:ϕ_s184.00000°,δ71.00000°,λ0.00000°. Principal axes: T Plg13.0000°,Azm47.0000°; N Plg71.0000°,Azm274.0000°; P Plg13.0000°,Azm140.0000°
JMA III 12 06 23 34.8 36.81N 139.41E 3 2.1 ¶600541050
JMA Event type fe.
JMA III 12 06 31 13.1 36.20N 137.47E 7–1 1.7 ¶603049568
JMA III 12 06 33 28.9–.10 36.21N 137.60E 4–2 0.4 ¶603049569
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 08 30 31.8 36.96N 138.61E 8–1 2.2 ¶603049586
JMA III 12 08 47 57.0 35.22N 139.00E 4–1 0.9 ¶603049590
JMA III 12 09 12 16.6 36.18N 137.55E 4–1 0.4 ¶603049593
JMA III 12 09 19 57.6 36.16N 137.55E 3–1 1.2 ¶602656514
JMA III 12 10 08 01.7 36.96N 138.55E 5–2 3.6
NIED III 12 10 08 00 37.00N 138.60E 8 4.4W **¶600541330**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ50.00000°,λ146.00000°. NP2:ϕ_s25.00000°,δ65.00000°,λ46.00000°. $M_0$4.34000×10^{15}
JMA III 12 10 30 38.5 36.96N 138.62E 7–2 2.1 ¶603049599
JMA III 12 10 35 24.5–.10 36.92N 138.51E 2–2 1.7 ¶602655893
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 11 10 13.2–.10 36.98N 138.53E 7–2 1.7 ¶603049601
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 11 21 01.4 36.49N 137.62E 11–2 1.0 ¶603049603
JMA III 12 12 20 02.2–.10 36.56N 137.69E 2–2 1.8 ¶603049609
JMA III 12 12 25 11.4 36.24N 137.58E 4 2.1 ¶600541461
ISC III 12 13 22 42.5–.92 36.57N–.04 137.59E–.04 11 4.0b 14 0-60
IDC III 12 13 22 41.4–1.2 36.56N 137.54E 0 4.2,4.0 **¶602655347**
ISCJB III 12 13 22 41.9–.56 36.54N–.04 137.58E–.04 11 4.1b,4.0

JMA III 12 13 22 42.5–.10 36.56N 137.60E 1–2 3.5,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=10.5km s-min=9.6km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=2.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s52.00000°,δ76.00000°,λ-155.00000°. NP2:ϕ_s316.00000°,δ66.00000°,λ-15.00000°. Principal axes: T Plg7.0000°,Azm182.0000°; N Plg62.0000°,Azm79.0000°; P Plg27.0000°,Azm276.0000°
JMA III 12 13 27 13.3 36.92N 138.56E 0 3.6 ¶602655337

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s47.00000°,δ81.00000°,λ89.00000°. NP2:ϕ_s233.00000°,δ9.00000°,λ96.00000°. Principal axes: T Plg54.0000°,Azm316.0000°; N Plg1.0000°,Azm47.0000°; P Plg36.0000°,Azm138.0000°
JMA III 12 13 44 29.8–.10 37.18N 140.98E 7–1 3.7 ¶602655311

JMA Event type fe.
JMA III 12 14 27 01.4 36.96N 138.51E 9–1 2.3 ¶603049616

JMA III 12 14 34 58.7 36.97N 138.57E 5–2 3.7 ¶602655145

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 14 44 44.1 36.24N 137.58E 5 ¶16310185

ISC III 12 14 58 19.8–1.1 38.8N–.20 140.7E–.20 16 4.1b 12 10-81
IDC III 12 14 58 16.9–1.2 38.84N 140.86E 0 4.2,4.1 ¶602655098
ISCJB III 12 14 58 18.1–.93 38.7N–.10 140.6E–.20 16 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 14 59 56.1 36.68N 139.43E 8–1 1.8 ¶603049620

JMA III 12 15 11 00.8 36.24N 137.58E 4–1 1.0 ¶603049622

JMA III 12 15 14 42.2 36.81N 139.47E 5 2.6 ¶16477026

JMA Event type fe.
JMA III 12 15 39 12.7 36.50N 137.62E 0 0.6 ¶603049624

JMA III 12 15 39 53.5 36.24N 137.58E 4 1.2 ¶603310075

JMA III 12 15 44 01.4 36.94N 138.60E 5–1 3.6 ¶602655029

JMA III 12 15 44 16.2 36.93N 138.60E 5–1 3.8 ¶600541744

JMA Event type fe.
JMA III 12 16 15 34.5 36.98N 138.60E 8–1 2.2 ¶16461475

JMA Event type fe.
JMA III 12 16 21 00.3–.10 36.39N 138.39E 13–1 1.4 ¶603049632

IDC III 12 16 46 56.0–1.8 37.19N 140.59E 0 4.0,3.8 ¶17194507

IDC Error ellipse: s-maj=39.3km s-min=29.4km az=172.0.
JMA III 12 17 08 46.1–.10 37.15N 140.96E 24–1 3.2 ¶603049637

JMA Event type fe.
JMA III 12 17 10 04.7 35.22N 139.00E 0 1.0 ¶603049638

JMA III 12 17 11 44.3–.10 36.38N 138.38E 12–2 1.5 ¶603049639

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 17 19 31.9 37.03N 139.37E 8–1 1.2 ¶602655674

JMA III 12 17 42 54.8–.10 37.15N 140.95E 22–1 4.0 ¶602655574

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 17 53 05.4 36.24N 137.53E 3 0.9 ¶603049644

JMA III 12 17 56 36.3–.10 37.43N 139.56E 4–3 0.9 ¶602654993

JMA III 12 18 09 34.0 36.24N 137.58E 5 0.1 ¶600542093

JMA III 12 18 23 34.6 35.23N 139.00E 2–1 1.1 ¶603049646

JMA III 12 18 39 04.3 40.64N 140.91E 6–2 2.3 ¶603049647

JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
JMA III 12 19 50 26.8–.10 36.50N 137.62E 1–2 2.4 ¶603049649

JMA III 12 19 58 15.1–.10 39.56N 140.45E 7–2 2.5 ¶603049650

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 12 20 07 19.3–.64 39.17N 141.56E 0 3.9,3.6 ¶17194581

IDC Error ellipse: s-maj=22.7km s-min=12.6km az=78.0.
JMA III 12 20 08 26.2 36.95N 138.59E 7–1 1.9 ¶602654708

JMA III 12 21 05 04.5 36.96N 138.58E 4–1 1.6 ¶603049652

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 21 21 38.1–.10 36.50N 137.62E 1–2 1.2 ¶603049654

JMA III 12 21 26 45.0 35.98N 137.31E 7 1.6 ¶16445758

JMA III 12 22 02 38.8 35.25N 138.97E 0 1.1 ¶603049655

IDC III 12 22 09 39.8–3.8 39.05N 141.96E 0 3.9,3.6 ¶602707123

IDC Error ellipse: s-maj=395.4km s-min=28.5km az=110.0.
JMA III 12 22 32 19.8 36.15N 137.53E 3–1 1.6 ¶602654613

JMA III 12 22 59 08.6 36.67N 139.47E 4–1 1.7 ¶602654590

JMA III 12 23 53 42.7–.10 39.25N 140.67E 12–1 ¶603049666

JMA III 13 00 04 32.7 36.64N 139.36E 8–1 1.7 ¶603049668

JMA III 13 00 25 51.2 36.97N 138.63E 9–1 2.7 ¶602658444

JMA Event type fe.
JMA III 13 00 27 24.2 36.98N 138.55E 8–1 2.4 ¶16461505

JMA III 13 01 16 17.5 36.25N 137.58E 4 1.2 ¶603145350

JMA III 13 01 35 09.1 39.59N 140.69E 12–2 2.2 ¶603049677

JMA III 13 02 05 52.5 36.24N 137.59E 5 0.8 ¶603049679

JMA III 13 02 33 06.8 35.93N 137.65E 8 1.5 ¶16357275

ISC III 13 03 31 09.4–1.1 36.86N–.04 138.54E–.04 8–8 4.0b 34 0-84
NIED III 13 03 31 00 36.80N 138.60E 5 4.3W ¶600542942
NEIC III 13 03 31 06.1–.65 36.36N 138.92E 10 4.3b
IDC III 13 03 31 08.7–1.1 36.92N 138.52E 0 4.0,3.9
JMA III 13 03 31 09.1 36.83N 138.58E 0 3.7,3.9
ISCJB III 13 03 31 09.2–.41 36.76N–.04 138.59E–.05 24–4 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ74.00000°,λ13.00000°. NP2:ϕ_s101.00000°,δ78.00000°,λ163.00000°. M_o3.16000×10^{15}
NEIC Event type fe. Recorded [4 JMA] in Niigata.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ74.00000°,λ-34.00000°. NP2:ϕ_s118.00000°,δ57.00000°,λ-161.00000°. Principal axes: T Plg11.0000°,Azm71.0000°; N Plg53.0000°,Azm176.0000°; P Plg35.0000°,Azm333.0000°
ISCJB Event type fe.
JMA III 13 03 34 25.9 36.83N 138.59E 0 3.6 ¶602658885

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s276.00000°,δ71.00000°,λ149.00000°. NP2:ϕ_s17.00000°,δ61.00000°,λ22.00000°. Principal axes: T Plg35.0000°,Azm234.0000°; N Plg54.0000°,Azm66.0000°; P Plg6.0000°,Azm328.0000°
JMA III 13 03 47 34.2 36.99N 138.64E 9–1 2.3 ¶603049688

JMA Event type fe.
JMA III 13 04 02 45.0 36.82N 138.59E 0 2.5 ¶600542977

JMA III 13 04 06 46.2–.20 36.83N 138.57E 1–3 1.4 ¶603049690

JMA III 13 04 13 00.9–.20 36.87N 138.66E 1–3 1.4 ¶602658636

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 04 21 56.9–.10 36.93N 138.56E 1–2 1.2 ¶603049691

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 04 49 33.0 39.30N 140.88E 10–1 3.0 ¶603049694

JMA Event type fe.
JMA III 13 04 55 03.0 36.97N 138.58E 7–1 2.3 ¶602658569

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 05 48 22.7 36.25N 137.59E 3 1.1 ¶602658526

JMA III 13 06 21 06.4–.20 36.83N 138.59E 1–3 1.8 ¶16310906

JMA III 13 07 02 07.9 36.25N 137.58E 4 0.5 ¶603049701

JMA III 13 07 20 41.6–.20 36.99N 138.60E 0 1.9 ¶602658273

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 07 46 38.0 36.15N 137.55E 3–1 0.8 ¶603049702

JMA III 13 08 13 37.5 36.21N 137.99E 6–1 2.1 ¶603049703

JMA Event type fe.
JMA III 13 08 59 20.3–.10 36.22N 138.01E 8–1 1.6 ¶602658505

JMA III 13 09 11 24.0–.10 36.70N 138.16E 1–1 1.8 ¶603049706

JMA III 13 09 11 58.5–.10 36.97N 138.54E 7–2 1.4 ¶602658099

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 09 44 02.2 36.96N 138.60E 5–1 2.2 ¶603049711

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 12 57 18.9–.10 36.93N 138.52E 2–2 3.1 ¶603049719

JMA Event type fe.
ISC III 13 13 12 56.7–1.1 39.5N–.10 141.2E–.20 92 3.6b 10 26-63
IDC III 13 13 12 45.8–1.1 39.38N 141.26E 0 3.7,3.6 ¶17194880
ISCJB III 13 13 12 54.9–.97 39.4N–.10 141.3E–.20 92 3.9b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 13 13 51 03.0 36.24N 137.59E 3 1.3 ¶603049720

JMA III 13 14 27 54.7 36.97N 138.57E 6–2 3.6 ¶602657369

JMA Event type fe.
JMA III 13 17 08 23.6–.10 37.19N 141.00E 25–1 3.9 ¶603049725

JMA Event type fe.
IDC III 13 20 22 27.5–.82 37.52N 139.90E 0 4.1,3.9 ¶17194976

IDC Error ellipse: s-maj=26.5km s-min=21.9km az=93.0.
IDC III 13 20 41 19.9–1.2 38.56N 140.90E 0 4.0,3.7 ¶17194982

IDC Error ellipse: s-maj=46.7km s-min=26.0km az=89.0.
JMA III 13 21 43 39.1 37.02N 140.67E 10–1 1.9 ¶603049732

JMA III 13 22 46 16.1 39.59N 140.41E 7–1 3.1 ¶603049734

JMA Event type fe.
JMA III 13 23 49 36.3 37.06N 140.80E 6–1 1.9 ¶603049737

JMA III 14 00 15 30.5 36.93N 138.60E 4–1 1.9 ¶16453143

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 14 02 20 26.6–1.2 39.31N 140.65E 0 3.9,3.7 ¶17195044

IDC Error ellipse: s-maj=41.5km s-min=24.7km az=75.0.
ISC III 14 03 10 05.4–1.1 36.84N–.05 138.56E–.04 12–15 16 0-7
NIED III 14 03 10 00 36.80N 138.60E 5 4.2W ¶16313308
ISCJB III 14 03 10 04.9–.62 36.78N–.04 138.56E–.05 30–6 4.2W
JMA III 14 03 10 05.4–.10 36.84N 138.59E 0–2 3.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ75.00000°,λ-2.00000°. NP2:ϕ_s107.00000°,δ88.00000°,λ-165.00000°. M_o2.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.9km az=138.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s19.00000°,δ80.00000°,λ-21.00000°. NP2:ϕ_s113.00000°,δ69.00000°,λ-169.00000°. Principal axes: T Plg7.0000°,Azm67.0000°; N Plg67.0000°,Azm174.0000°; P Plg22.0000°,Azm334.0000°
JMA III 14 03 20 12.1 36.24N 137.55E 4 1.2 ¶600544859

JMA III 14 03 37 00.7 36.97N 138.62E 10–1 2.2 ¶602660103

JMA III 14 06 38 51.7 36.93N 138.60E 4–1 3.5 ¶602660743

JMA Event type fe.
IDC III 14 06 40 01.9–5.8 35.98N 138.55E 46–83 3.8,3.7 ¶17195093

IDC Error ellipse: s-maj=338.0km s-min=29.4km az=64.0.
JMA III 14 06 40 44.4 36.25N 137.59E 4 1.9 ¶603049752

ISC III 14 09 16 10.8–2.1 37.22N–.09 141.0E–.10 9–10 3.8b 15 0-50
IDC III 14 09 16 03.5–5.5 36.83N 141.72E 0 3.9,3.9 ¶602660810
JMA III 14 09 16 10.9 37.18N 140.95E 9 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=93.0km s-min=53.8km az=125.0.
JMA Event type fe.
JMA III 14 10 35 16.9 36.99N 138.64E 7–2 1.9 ¶16313913

JMA III 14 11 29 25.7 35.51N 138.31E 12–1 1.7 ¶603049762

JMA III 14 11 42 09.8 36.24N 137.58E 4–1 0.5 ¶602660390

JMA III 14 11 42 12.3 36.09N 137.32E 12 0.5 ¶602660387

IDC III 14 12 16 48.2–1.2 36.60N 139.95E 0 3.8,3.7 ¶602659968

IDC Error ellipse: s-maj=27.8km s-min=18.6km az=76.0.
JMA III 14 12 17 12.9 36.24N 137.59E 5 0.0 ¶603049763

JMA III 14 16 11 55.2 36.24N 137.58E 4 1.8

¶602443527
JMA III 14 16 26 23.9 36.16N 137.55E 4–1 0.7
¶603049773
JMA III 14 19 42 43.5 36.82N 138.59E 0 1.5
¶603049782
JMA III 14 21 13 56.2 39.02N 140.82E 7–1 4.1
¶603049784
JMA Event type fe.
JMA III 14 21 55 35.2 36.96N 138.60E 5–1 1.6
¶16461727
ISC III 14 22 20 32.1–1.1 36.85N–.03 138.57E–.03 5–7 4.2b,3.6s 69 0-149
NIED III 14 22 20 00 36.80N 138.60E 5 4.4W,3.6s ¶602443547
IDC III 14 22 20 31.9–.45 36.90N 138.42E 0 4.3,4.2
JMA III 14 22 20 31.9 36.82N 138.61E 0 4.5,4.2
ISCJB III 14 22 20 31.7–.63 36.83N–.03 138.54E–.03 15–4 4.1b,3.7s
NEIC III 14 22 20 33.5–.92 36.82N 138.39E 13–6 4.3b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ52.00000°,λ-172.00000°. NP2:ϕ_s6.00000°,δ84.00000°,λ-39.00000°. $M_0$5.20000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=7.8km az=104.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s98.00000°,δ81.00000°,λ169.00000°. NP2:ϕ_s190.00000°,δ79.00000°,λ9.00000°. Principal axes: T Plg14.0000°,Azm54.0000°; N Plg76.0000°,Azm238.0000°; P Plg1.0000°,Azm144.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.0km az=164.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=7.0km az=82.0. Recorded [3 JMA] in Nagano.
ISC III 14 22 29 20.7–.97 37.04N–.03 140.67E–.03 8–6 4.5b 82 0-147
NIED III 14 22 29 00 37.10N 140.70E 8 4.1W ¶16461730
ISCJB III 14 22 29 20.6–.54 37.06N–.03 140.86E–.04 19–3 4.4b
JMA III 14 22 29 21.9 37.07N 140.75E 9–1 4.3
NEIC III 14 22 29 24.9–.23 37.05N 140.73E 35 4.7b
IDC III 14 22 29 26.3–1.6 37.03N 140.77E 50–16 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ43.00000°,λ-113.00000°. NP2:ϕ_s217.00000°,δ51.00000°,λ-70.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.3km az=17.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ45.00000°,λ-82.00000°. NP2:ϕ_s9.00000°,δ45.00000°,λ-98.00000°. Principal axes: T Plg0.0000°,Azm285.0000°; N Plg6.0000°,Azm15.0000°; P Plg84.0000°,Azm195.0000°
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=123.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.9km s-min=10.2km az=60.0.
ISC III 14 23 02 15.2–1.2 36.83N–.04 138.58E–.04 5–9 3.6b 21 0-79
JMA III 14 23 02 14.8 36.82N 138.59E 0 3.4 ¶17195279
ISCJB III 14 23 02 14.9–.48 36.81N–.03 138.59E–.04 3–5 3.5b
IDC III 14 23 02 14.9–1.0 36.53N 138.74E 0 3.9,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=36.2.
IDC Error ellipse: s-maj=26.1km s-min=7.7km az=172.0.
ISC III 15 00 54 47.1–1.1 39.59N–.03 140.46E–.04 5–9 3.6b 18 0-76
NIED III 15 00 54 00 39.60N 140.50E 5 3.6W ¶16315875
JMA III 15 00 54 46.8 39.58N 140.45E 8–1 3.8
ISCJB III 15 00 54 46.8–.58 39.56N–.03 140.46E–.05 15–4 3.4b
IDC III 15 00 54 52.5–3.2 39.77N 139.33E 60–32 3.7,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ68.00000°,λ-1.00000°. NP2:ϕ_s9.00000°,δ90.00000°,λ-158.00000°. $M_0$3.02000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.3km az=157.1.
IDC Error ellipse: s-maj=35.3km s-min=20.7km az=95.0.
JMA III 15 01 28 14.9 37.02N 140.54E 4–1 1.5
¶603049796
JMA III 15 02 57 30.0 36.84N 138.60E 8–1 1.2
¶602663049
ISC III 15 04 55 50.0–.51 39.34N–.06 141.99E–.06 46 4.4b 96 1-145
NIED III 15 04 55 00 39.40N 142.10E 53 4.6W ¶17196034
ISCJB III 15 04 55 47.9–.35 39.27N–.04 142.17E–.05 46 4.5b,3.2s
BJI III 15 04 55 48.7 39.36N 142.39E 83 4.9b,4.7b
JMA III 15 04 55 50.1–.20 39.38N 142.06E 49–2 4.5,4.7b
NEIC III 15 04 55 51.5–.80 39.37N 141.89E 61–7 4.5b,4.7b
IDC III 15 04 55 54.2–2.3 39.39N 141.90E 86–20 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ20.00000°,λ76.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ95.00000°. $M_0$8.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=137.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.9km az=130.0.
IDC Error ellipse: s-maj=12.7km s-min=11.1km az=136.0.
JMA III 15 05 27 40.7–.10 35.61N 138.98E 23–1 1.5
¶602663376
JMA III 15 06 32 29.0 35.98N 137.31E 8–1 3.8
NIED III 15 06 32 00 36.00N 137.30E 8 4.1W ¶600547055
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ57.00000°,λ-8.00000°. NP2:ϕ_s229.00000°,δ83.00000°,λ-147.00000°. $M_0$1.82000×10^{15}
ISC III 15 06 51 46.9–1.5 36.99N–.05 138.63E–.04 13–12 16 0-60
IDC III 15 06 51 44.4–2.1 37.08N 138.69E 0 3.8,3.7 ¶602662840
ISCJB III 15 06 51 47.0–.65 37.00N–.05 138.60E–.05 30–5 3.7b,3.7
JMA III 15 06 51 48.1 36.98N 138.62E 9–1 2.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=11.9km az=24.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.2km az=163.5.
JMA Event type fe.
ISC III 15 07 44 33.6–.96 37.25N–.04 140.37E–.04 17–9 3.5b 16 0-45
JMA III 15 07 44 33.9 37.26N 140.38E 13–1 3.1 ¶602662731
ISCJB III 15 07 44 33.8–.59 37.24N–.03 140.38E–.05 13–6 3.4b
IDC III 15 07 44 39.3–3.4 36.13N 140.07E 0 3.6,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.8km az=150.9.
IDC Error ellipse: s-maj=72.3km s-min=25.1km az=72.0.
JMA III 15 07 44 38.8 36.87N 139.46E 3 0.0
¶603049802
JMA III 15 08 29 34.4 36.16N 137.56E 4–1 0.9
¶602662623
JMA III 15 11 28 34.3 37.06N 140.80E 6–1 1.5
¶603049808
JMA III 15 11 40 15.1 36.25N 137.59E 3 0.9
¶603049809
ISC III 15 13 31 47.5–.42 35.31N–.02 138.72E–.03 15–2 6.1b,6.0s 1658 0-164
NIED III 15 13 31 00 35.30N 138.70E 8 5.9W,6.0s ¶16318259
ISCJB III 15 13 31 45.3–.52 35.25N–.02 138.65E–.02 10–3 6.0b,6.0s
BJI III 15 13 31 45.6 35.35N 138.70E 10 6.4s,6.1
IDC III 15 13 31 45.2–.28 35.23N 138.50E 0 5.8,5.8L
NEIC III 15 13 31 46.0–.00 35.50N 139.00E 35 5.8,5.8L
NEIC III 15 13 31 46.3–.09 35.27N 138.58E 9 6.2b,6.0
JMA III 15 13 31 46.3 35.31N 138.71E 14–1 6.4,6.0
GCMT III 15 13 31 46.3–.10 35.27N 138.58E 19–0 6.0W,6.0
MOS III 15 13 31 48.4–1.1 35.30N 138.61E 31 6.3b,6.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ69.00000°,λ22.00000°. NP2:ϕ_s293.00000°,δ70.00000°,λ157.00000°. $M_0$8.38000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=169.7.
IDC Error ellipse: s-maj=9.9km s-min=7.8km az=80.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ78.00000°,λ52.00000°. NP2:ϕ_s296.00000°,δ39.00000°,λ161.00000°. Principal axes: T 0.9800,Plg43.0000°,Azm273.0000°; N 0.1600,Plg36.0000°,Azm49.0000°; P -1.1400,Plg23.0000°,Azm158.0000°
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=136.0. Felt [V] at Sagamihara and Yokohama; [IV] at Atsugi, Ayase, Tokyo, Yamato, Yokosuka, Zama and Zushi; [III] at Nagoya and Osaka. Felt in many parts of central Honshu. Recorded [6U JMA] in Shizuoka. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s38 Moment tensor: Scale 10^{17}Nm; M_{rr}3.93 $M_{\theta\theta}$-7.43 $M_{\phi\phi}$3.50 $M_{r\theta}$2.76 $M_{\theta\phi}$0.01 $M_{\phi r}$2.88 Best double couple: NP1:ϕ_s305.00000°,δ46.00000°,λ149.00000°. NP2:ϕ_s58.00000°,δ68.00000°,λ49.00000°. Principal axes: T 6.9000,Plg49.0000°,Azm283.0000°; N 1.2000,Plg38.0000°,Azm76.0000°; P -8.1000,Plg14.0000°,Azm177.0000° $M_0$7.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s210.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s30.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm300.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm120.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s291.00000°,δ64.00000°,λ149.00000°. NP2:ϕ_s36.00000°,δ63.00000°,λ29.00000°. Principal axes: T Plg39.0000°,Azm253.0000°; N Plg51.0000°,Azm75.0000°; P Plg1.0000°,Azm344.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s95,c186; s137,c386;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.38±.01 $M_{\theta\theta}$-1.03±.01; $M_{\phi\phi}$0.65±.01; $M_{r\theta}$0.04±.03; $M_{\theta\phi}$-0.66±.01; $M_{\phi r}$0.20±.03; Best double couple: NP1:ϕ_s28.00000°,δ80.00000°,λ16.00000°. NP2:ϕ_s295.00000°,δ75.00000°,λ170.00000°. Principal axes: T 0.9370,Plg18.0000°,Azm252.0000°; N 0.3310,Plg72.0000°,Azm59.0000°; P -1.2650,Plg4.0000°,Azm161.0000° $M_0$1.10100×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.5km az=104.3.
JMA III 15 13 34 09.0 35.33N 138.72E 13–1 3.7
¶602661897
JMA Event type fe.
ISC III 15 13 35 21.9–1.4 35.40N–.07 138.73E–.08 13–12 10 0-55
IDC III 15 13 35 20.2–1.2 35.33N 138.72E 0 4.6,4.4 ¶602661887
ISCJB III 15 13 35 21.6–.90 35.32N–.07 138.7E–.10 20–8 4.2b,4.4
JMA III 15 13 35 22.1 35.34N 138.73E 11–1 4.1,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=13.3km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=9.3km az=146.5.
JMA Event type fe.
JMA III 15 13 37 02.8 35.30N 138.71E 16–1 3.8
¶602661883
JMA Event type fe.
JMA III 15 13 40 03.4 35.33N 138.72E 12–1 3.7
¶602661871
JMA Event type fe.
ISC III 15 13 40 09.2–1.0 35.36N–.03 138.78E–.04 9–8 4.2b 20 0-80
IDC III 15 13 40 08.1–1.1 35.33N 138.70E 0 4.4,4.1 ¶600547782
ISCJB III 15 13 40 08.9–.58 35.35N–.03 138.74E–.04 13–4 4.1b,4.1
JMA III 15 13 40 09.5 35.35N 138.73E 10–1 4.2,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=14.1km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=153.1.
JMA Event type fe.
ISC III 15 13 40 38.0–.90 35.30N–.03 138.71E–.04 10 4.2b 16 0-93
ISCJB III 15 13 40 36.9–.53 35.29N–.03 138.72E–.04 10 4.1b ¶600547784
JMA III 15 13 40 36.7 35.31N 138.70E 14–1 4.2
IDC III 15 13 40 39.8–1.3 35.51N 138.58E 0 4.5,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=152.3.
IDC Error ellipse: s-maj=43.9km s-min=12.5km az=73.0.
ISC III 15 13 43 10.9–1.0 35.34N–.03 138.76E–.04 9–7 3.9b 23 0-93
IDC III 15 13 43 09.6–.97 35.31N 138.65E 0 4.1,3.9 ¶602661857
ISCJB III 15 13 43 10.7–.57 35.34N–.03 138.74E–.04 13–4 3.8b,3.9
JMA III 15 13 43 11.2 35.34N 138.73E 11–1 3.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=12.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=151.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s173.00000°,δ51.00000°,λ-57.00000°. NP2:ϕ_s307.00000°,δ49.00000°,λ-124.00000°. Principal axes: T Plg1.0000°,Azm240.0000°; N Plg25.0000°,Azm330.0000°; P Plg65.0000°,Azm148.0000°
JMA III 15 13 54 13.0 35.31N 138.72E 15–1 2.0
¶602661817
JMA III 15 13 54 56.6 35.34N 138.73E 12–1 1.6
¶603049813
JMA III 15 13 55 40.7 36.16N 137.55E 3–1 1.7
¶602661809
JMA III 15 14 37 03.8 35.32N 138.70E 13–1 1.5
¶603049815
JMA III 15 14 57 23.4 40.18N 140.59E 10–1 0.7
¶603049816
JMA III 15 15 04 29.6 35.34N 138.73E 12–1 2.1
¶600548145
JMA III 15 16 03 59.1 36.23N 137.57E 3–1 0.9
¶602661326
IDC III 15 16 04 42.0–29 37.57N 140.87E 0 4.1,4.1
¶17196178
IDC Error ellipse: s-maj=523.9km s-min=326.3km az=138.0.
ISC III 15 16 28 16.8–.94 36.21N–.04 139.97E–.06 56–7 3.4b 25 0-65
IDC III 15 16 28 06.8–1.3 36.46N 140.63E 0 3.7,3.7L ¶600548242
ISCJB III 15 16 28 16.1–.57 36.20N–.04 139.98E–.07 67–4 3.4b,3.7L
JMA III 15 16 28 17.3–.10 36.20N 139.96E 52–1 3.6,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=23.8km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.8km az=7.9.
JMA Event type fe.
JMA III 15 16 44 24.7 35.35N 138.72E 11–1 2.9
¶603049817
JMA Event type fe.
JMA III 15 18 19 48.7 40.19N 140.56E 11–1 1.0
¶603049824
JMA III 15 18 33 28.4 35.98N 137.31E 7 4.0
¶602661977
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s326.00000°,δ81.00000°,λ11.00000°. NP2:ϕ_s234.00000°,δ79.00000°,λ171.00000°. Principal axes: T Plg14.0000°,Azm190.0000°; N Plg76.0000°,Azm6.0000°; P Plg1.0000°,Azm100.0000°
ISC III 15 21 55 50.7–.99 35.18N–.05 138.76E–.08 65–8 3.2b 16 0-59
ISCJB III 15 21 55 50.0–.76 35.16N–.05 138.7E–.10 72–6 3.1b ¶600548829
IDC III 15 21 55 51.1–3.1 35.12N 138.64E 72–39 3.1,3.0
JMA III 15 21 55 54.1 35.32N 138.71E 9–1 1.9,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=7.9km az=167.1.
IDC Error ellipse: s-maj=35.9km s-min=26.6km az=10.0.
JMA III 15 23 26 36.5 36.15N 137.55E 3–1 1.2
¶603049834
JMA III 16 01 03 43.1 38.99N 140.75E 4–2 1.3
¶602665460
JMA III 16 01 43 56.5 37.17N 140.77E 6–1 2.4
¶603049837
JMA Event type fe.
JMA III 16 02 37 43.0 40.39N 140.23E 7–1 1.2
¶603049839
JMA III 16 02 47 18.2 36.24N 137.58E 3–1 1.5
¶602666221
JMA III 16 02 49 56.5 36.15N 137.55E 2–1 1.8
¶603049840
JMA III 16 04 45 37.7 36.78N 139.49E 5–1 1.4
¶600549511
JMA III 16 06 17 13.2 36.81N 139.49E 5–1 2.0
¶603049846
ISC III 16 07 42 22.4–1.1 36.83N–.04 138.59E–.03 5–12 19 0-57
IDC III 16 07 42 20.9–2.2 36.82N 138.61E 0 3.8,3.8 ¶602665839
JMA III 16 07 42 22.5–.30 36.82N 138.61E 1–4 3.1,3.8
ISCJB III 16 07 42 22.0–.49 36.80N–.03 138.61E–.04 10–5 3.8b,3.7s
ISC Event type ke.

JMA Event type fe.
ISCJB Event type fe.
JMA III 16 11 20 20.2–.10 35.32N 138.72E 15–1 0.7 ¶602443623
JMA III 16 12 49 27.8 36.19N 137.64E 6–1 0.6 ¶16327723
IDC III 16 16 04 17.4–2.6 39.61N 141.17E 0 3.6,3.5L ¶17196485
IDC Error ellipse: s-maj=76.1km s-min=22.5km az=66.0.
ISC III 16 18 56 23.2–.95 37.18N–.05 140.83E–.05 13–6 4.2b 39 0-147
NIED III 16 18 56 00 37.20N 141.00E 5 4.1W ¶602443636
ISCJB III 16 18 56 20.7–.97 37.25N–.04 141.05E–.05 4–6 4.1b
JMA III 16 18 56 22.6 37.22N 140.93E 6–1 4.4
NEIC III 16 18 56 28.9–1.1 37.18N 140.85E 57–10 4.2b
IDC III 16 18 56 28.4–2.5 37.21N 140.86E 52–23 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ43.00000°,λ-85.00000°. NP2:ϕ_s281.00000°,δ47.00000°,λ-94.00000°. $M_0$1.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.2km az=154.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s292.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s132.00000°,δ39.00000°,λ-74.00000°. Principal axes: T Plg7.0000°,Azm31.0000°; N Plg10.0000°,Azm300.0000°; P Plg78.0000°,Azm154.0000°
NEIC Event type fe. Error ellipse: s-maj=10.8km s-min=8.3km az=65.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=18.0km s-min=14.8km az=78.0.
JMA III 16 21 10 08.2 36.26N 137.59E 4 0.9 ¶603049864
JMA III 16 22 05 34.6 36.92N 138.56E 4–2 2.6 ¶603049867
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 16 23 11 53.0 36.72N 138.49E 6–3 3.3 ¶602663519
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s307.00000°,δ53.00000°,λ-106.00000°. NP2: ϕ_s154.00000°,δ40.00000°,λ-69.00000°. Principal axes: T Plg7.0000°,Azm49.0000°; N Plg13.0000°,Azm317.0000°; P Plg75.0000°,Azm167.0000°
JMA III 16 23 12 02.4 37.03N 140.79E 6–1 3.1 ¶602443646
JMA III 17 01 06 10.5 36.80N 139.31E 7–1 1.4 ¶16427639
JMA III 17 02 50 14.1 36.24N 137.57E 4 0.8 ¶16339102
JMA III 17 06 42 24.6 36.71N 138.50E 5 1.0 ¶602668044
JMA III 17 10 43 00.6–.10 37.14N 140.86E 6–1 2.1 ¶16339109
JMA III 17 11 38 24.2 36.89N 139.42E 4–1 1.1 ¶603049876
IDC III 17 12 02 25.4–1.6 35.14N 138.75E 0 3.9,3.6 ¶17196704
IDC Error ellipse: s-maj=64.1km s-min=24.9km az=82.0.
JMA III 17 13 59 08.0 39.07N 140.55E 6–1 2.1 ¶600553335
JMA III 17 14 30 50.6 39.58N 140.54E 7–1 2.7 ¶603049884
JMA Event type fe.
JMA III 17 18 17 45.3–.10 40.03N 140.55E 11–2 0.9 ¶600553817
JMA III 17 18 54 57.6 37.65N 139.87E 13–1 1.4 ¶602667390
ISC III 17 19 49 59.8–3.5 39.6N–.20 141.3E–.50 75 3.8b 7 4-72
IDC III 17 19 49 50.7–3.4 39.87N 141.64E 0 3.8,3.7 ¶17196788
ISC Event type ke.
IDC Error ellipse: s-maj=73.4km s-min=38.2km az=116.0.
ISC III 17 21 56 24.6–1.2 37.02N–.04 140.66E–.05 5–10 3.8b 17 0-57
ISCJB III 17 21 56 23.8–1.2 37.06N–.05 140.93E–.08 13–4 3.7b ¶17196823
IDC III 17 21 56 23.4–2.0 37.17N 140.91E 0 3.8,3.7b
JMA III 17 21 56 25.6 37.04N 140.78E 9–1 3.5,3.7b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=8.3km az=164.7.
IDC Error ellipse: s-maj=39.9km s-min=30.6km az=55.0.
JMA Event type fe.
ISC III 18 02 10 55.3–2.2 37.80N–.10 140.1E–.10 15 3.3b 6 0-45
JMA III 18 02 10 57.0 37.74N 139.97E 9–1 2.4 ¶602672405
ISC Event type ke.
JMA III 18 03 24 17.6 37.74N 139.97E 9–1 1.9 ¶602671780
JMA III 18 13 47 34.8 36.24N 137.58E 3–1 3.1 ¶16461936
JMA Event type fe.
ISC III 18 15 54 15.9–1.2 37.74N–.03 139.96E–.03 1–11 3.2b 19 0-58
JMA III 18 15 54 15.9 37.74N 139.97E 9–1 2.3 ¶17197049
IDC III 18 15 54 19.7–2.6 37.76N 139.48E 0 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=64.1km s-min=24.6km az=75.0.
JMA III 18 16 48 55.1 36.29N 137.66E 4–1 0.5 ¶602669245
IDC III 18 19 32 02.6–2.6 39.88N 141.31E 0 3.5,3.4 ¶17197074
IDC Error ellipse: s-maj=75.6km s-min=22.5km az=65.0.
JMA III 18 21 28 25.8 37.74N 139.95E 9–1 1.6 ¶603049294
IDC III 18 22 53 12.5–11 39.98N 141.83E 0 3.5,3.5b ¶17197093
IDC Error ellipse: s-maj=223.5km s-min=42.3km az=99.0.
JMA III 18 23 33 12.6 38.99N 140.50E 7–1 1.4 ¶602443718
JMA III 18 23 33 48.2 36.93N 138.55E 6–1 1.1 ¶602443715
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 02 15 26.4 36.97N 138.59E 8–1 1.6 ¶602675646
JMA III 19 04 30 16.2 37.74N 139.97E 9–1 1.4 ¶16461974
JMA III 19 07 01 29.3 37.13N 140.76E 3–1 1.9 ¶17197150
JMA III 19 09 16 16.3 37.73N 139.97E 8–1 2.4 ¶603049925
JMA III 19 10 17 04.1–.10 37.00N 140.97E 50–1 3.6 ¶16461976
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 10 46 56.8 37.72N 139.97E 9–1 3.0 ¶603049929
JMA III 19 11 31 53.3–.10 36.97N 138.49E 10–2 1.2 ¶603049932
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 11 48 43.8 37.74N 139.96E 8–1 0.4 ¶603049935
JMA III 19 13 16 34.2 36.25N 137.59E 3–1 1.2 ¶603049936
JMA III 19 13 48 47.1 37.73N 139.96E 9–1 1.7 ¶603049937
JMA III 19 15 25 51.4 37.73N 139.97E 9–1 1.3 ¶602673543
JMA III 19 17 04 52.3 37.72N 139.96E 8–1 2.5 ¶603049938
JMA III 19 18 26 48.8 37.74N 139.97E 8–1 2.8 ¶602673079
JMA III 19 20 27 49.8–.10 36.09N 139.98E 46–1 3.0 ¶603049941

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 23 36 00.8 37.73N 139.97E 9–1 1.2 ¶602672559
JMA III 19 23 46 30.1 37.73N 139.97E 9–1 1.0 ¶603049942
JMA III 20 01 19 17.9 37.72N 139.96E 9–1 2.4 ¶16461992
JMA III 20 03 07 29.3–.10 37.75N 139.97E 7–2 1.5 ¶603049944
JMA III 20 04 07 28.7–.10 36.83N 138.61E 4–4 1.5 ¶603049945
JMA III 20 04 42 25.3 37.73N 139.97E 7–1 1.3 ¶603049947
ISC III 20 05 19 59.2–.64 37.06N–.03 140.66E–.03 14–3 4.6b,3.7s 231 0-147
NIED III 20 05 19 00 37.10N 140.90E 5 4.4W,3.7s ¶602443748
JMA III 20 05 19 58.0 37.08N 140.79E 7–1 4.7,3.7s
ISCJB III 20 05 19 59.4–.51 37.05N–.02 140.74E–.04 23–3 4.5b,3.7s
MOS III 20 05 20 01.4–1.1 37.02N 140.76E 42 4.8b,3.7s
IDC III 20 05 20 03.2–1.9 37.08N 140.67E 42–18 4.3,4.2
NEIC III 20 05 20 05.0–.50 37.05N 140.62E 58–4 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ30.00000°,λ-112.00000°. NP2:ϕ_s238.00000°,δ63.00000°,λ-78.00000°. $M_0$4.90000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.6km az=16.4.
MOS Error ellipse: s-maj=8.1km s-min=5.2km az=98.4.
IDC Error ellipse: s-maj=14.0km s-min=10.0km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=125.0. Recorded [3 JMA] in Fukushima.
JMA III 20 05 56 27.1–.10 36.55N 137.67E 1–2 2.7 ¶603049948
ISC III 20 06 34 48.0–2.3 37.9N–.20 140.8E–.20 10 7 1-58
IDC III 20 06 34 44.8–3.2 38.14N 141.02E 0 3.5,3.5s ¶17197413
JMA III 20 06 34 57.4 37.72N 139.97E 9–1 2.4,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=66.2km s-min=41.1km az=68.0.
JMA III 20 06 53 51.6 37.73N 139.97E 9–1 0.6 ¶603049949
JMA III 20 10 35 22.5 36.25N 137.59E 3 0.3 ¶602443756
JMA III 20 12 01 35.7 36.54N 137.63E 0 3.1
NIED III 20 12 01 00 36.50N 137.60E 5 4.0W ¶600558959
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ29.00000°,λ20.00000°. NP2:ϕ_s86.00000°,δ80.00000°,λ117.00000°. $M_0$1.06000×10^{15}
ISC III 20 12 03 46.7–.27 39.38N–.03 141.99E–.03 43–1 5.8b,5.3s 1907 1-162
NIED III 20 12 03 00 39.30N 142.10E 50 5.8W,5.3s ¶602442537
BJI III 20 12 03 42.6 39.21N 142.14E 42 5.6b,5.6s
MOS III 20 12 03 44.7–.95 39.49N 141.87E 33 6.1b,5.4s
NEIC III 20 12 03 46.7–.08 39.35N 141.82E 42 5.9b,5.8W
GCMT III 20 12 03 46.7–.10 39.39N 142.14E 51–0 5.8W,5.8W
NEIC III 20 12 03 47.0–.00 39.41N 142.16E 50 5.8W,5.8W
JMA III 20 12 03 47.5–.10 39.34N 142.05E 48–1 5.9,5.8W
ISCJB III 20 12 03 47.1–.29 39.36N–.02 141.88E–.02 58–2 5.7b,5.4s
IDC III 20 12 03 48.7–1.8 39.34N 141.94E 61–16 5.3s,5.3
NEIC III 20 12 04 10.1–.00 40.53N 141.56E 41 5.3s,5.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ21.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ98.00000°. $M_0$5.34000×10^{17}
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=95.7.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=146.0. Felt [III] at Misawa. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s68 Moment tensor: Scale 10^{17}Nm; M_{rr}4.91 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-4.91 $M_{r\theta}$2.55 $M_{\theta\phi}$-1.98 $M_{\phi r}$4.23 Best double couple: NP1: ϕ_s189.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s28.00000°,δ67.00000°,λ98.00000°. Principal axes: T 6.9300,Plg67.0000°,Azm312.0000°; N 0.5800,Plg7.0000°,Azm205.0000°; P -7.5100,Plg21.0000°,Azm112.0000° $M_0$7.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c240; s125,c357;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}5.07±.06 $M_{\theta\theta}$-0.25±.04; $M_{\phi\phi}$-4.82±.05; $M_{r\theta}$2.12±.05; $M_{\theta\phi}$-1.02±.04; $M_{\phi r}$3.67±.05; Best double couple: NP1:ϕ_s23.00000°,δ65.00000°,λ99.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ71.00000°. Principal axes: T 6.7080,Plg68.0000°,Azm312.0000°; N -0.2330,Plg8.0000°,Azm199.0000°; P -6.4780,Plg20.0000°,Azm106.0000° $M_0$6.59300×10^{17}
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}3.24 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-2.65 $M_{r\theta}$1.55 $M_{\theta\phi}$-0.43 $M_{\phi r}$4.55 Best double couple: NP1:ϕ_s17.00000°,δ74.00000°,λ93.00000°. NP2:ϕ_s188.00000°,δ16.00000°,λ81.00000°. Principal axes: T 5.9300,Plg60.0000°,Azm291.0000°; N -0.5300,Plg2.0000°,Azm196.0000°; P -5.3900,Plg29.0000°,Azm105.0000° $M_0$5.70000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=154.3.
IDC Error ellipse: s-maj=10.3km s-min=7.7km az=87.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}3.75 $M_{\theta\theta}$0.17 $M_{\phi\phi}$-3.92 $M_{r\theta}$-4.01 $M_{\theta\phi}$-1.65 $M_{\phi r}$2.63 Best double couple: NP1:ϕ_s223.00000°,δ42.00000°,λ143.00000°. NP2:ϕ_s342.00000°,δ66.00000°,λ54.00000°. Principal axes: T 7.2200,Plg54.0000°,Azm207.0000°; N -2.4300,Plg33.0000°,Azm359.0000°; P -4.7900,Plg14.0000°,Azm98.0000° $M_0$6.00000×10^{17}
JMA III 20 13 02 34.3 37.73N 139.97E 9–1 2.5 ¶603049952
IDC III 20 13 03 41.4–31 37.76N 140.75E 520–270 3.6,2.8 ¶602677644
IDC Error ellipse: s-maj=596.1km s-min=44.1km az=63.0.
JMA III 20 13 16 14.0 36.26N 137.59E 4 -0.3 ¶603049953
JMA III 20 15 25 46.4 36.25N 137.59E 4 0.5 ¶16437928
JMA III 20 15 54 39.0 37.74N 139.96E 9–1 1.9 ¶603049954
JMA III 20 16 45 01.6 37.75N 140.01E 9–1 1.0 ¶602676260
JMA III 20 19 31 06.7 36.36N 137.67E 7–1 0.2 ¶602676094
ISC III 20 19 59 07.2–1.4 37.43N–.04 140.93E–.06 7–9 3.9b 31 0-90
NIED III 20 19 59 00 37.50N 141.10E 5 3.9W ¶17197543
ISCJB III 20 19 59 06.3–1.0 37.44N–.04 141.14E–.06 12–6 3.8b
JMA III 20 19 59 07.4 37.47N 141.05E 11–1 4.1
IDC III 20 19 59 12.5–2.4 37.37N 140.97E 47–24 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s287.00000°,δ51.00000°,λ-97.00000°. $M_0$6.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=25.6.
JMA Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=16.4km az=98.0.
JMA III 20 20 05 10.4 37.74N 139.94E 9–1 1.2 ¶602676014
IDC III 21 00 14 02.9–5.0 36.70N 139.78E 0 3.8,3.7b ¶17197591
IDC Error ellipse: s-maj=77.7km s-min=34.5km az=96.0.
JMA III 21 01 06 31.9 37.74N 139.97E 9–1 1.0 ¶603049957
ISC III 21 01 09 49.3–1.5 37.09N–.04 140.9E–.10 10 3.5b 12 0-57
IDC III 21 01 09 46.1–2.8 38.51N 142.27E 0 3.9L,3.7 ¶17197601
ISCJB III 21 01 09 48.4–1.4 37.07N–.05 140.9E–.10 10 3.4b,3.7
JMA III 21 01 09 50.3 37.09N 140.84E 6–1 2.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=67.5km s-min=31.8km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=5.9km az=12.7.
JMA Event type fe.
JMA III 21 01 33 03.7 37.72N 139.97E 8–1 1.4 ¶603049958
ISC III 21 01 33 58.6–1.0 36.54N–.05 139.28E–.07 126–7 3.3b 25 0-56

IDC III 21 01 33 37.6–2.4 37.24N 141.14E 0 3.8L,3.6 ¶17197603
ISCJB III 21 01 33 57.5–.69 36.53N–.04 139.30E–.09 132–4 3.2b,3.6
JMA III 21 01 33 59.1–.10 36.55N 139.31E 120–1 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=58.1km s-min=31.2km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.2km az=10.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 01 45 47.3–.92 37.04N–.03 140.64E–.04 10–6 3.8b 43 0-147
NIED III 21 01 45 00 37.00N 140.60E 5 3.9W ¶16450709
IDC III 21 01 45 45.8–.68 37.04N 140.66E 0 4.0,3.9
ISCJB III 21 01 45 46.9–.52 37.03N–.03 140.71E–.05 19–3 3.8b,3.5s
JMA III 21 01 45 47.5 37.04N 140.63E 5–1 3.9,3.5s
NEIC III 21 01 45 51.3–1.2 37.02N 140.60E 37–10 4.2b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ40.00000°,λ-93.00000°. NP2:ϕ_s228.00000°,δ50.00000°,λ-88.00000°. $M_0$7.75000×10^{14}
IDC Error ellipse: s-maj=18.0km s-min=17.2km az=25.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=34.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s231.00000°,δ55.00000°,λ-103.00000°. NP2:ϕ_s73.00000°,δ37.00000°,λ-72.00000°. Principal axes: T Plg9.0000°,Azm330.0000°; N Plg11.0000°,Azm238.0000°; P Plg76.0000°,Azm99.0000°
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.4km az=58.0.
JMA III 21 03 04 47.6 37.72N 139.97E 9–1 1.2
¶603049959
JMA III 21 03 17 42.1 37.73N 139.97E 9–1 1.2
¶602682181
ISC III 21 03 39 05.9–1.3 36.98N–.04 138.61E–.04 15–10 3.2b 21 0-57
NIED III 21 03 39 00 37.00N 138.60E 8 3.7W ¶16341119
IDC III 21 03 39 03.1–1.4 37.07N 138.64E 0 3.7,3.4b
ISCJB III 21 03 39 06.1–.48 36.93N–.04 138.59E–.05 35–8 3.3b,3.4b
JMA III 21 03 39 07.2 36.96N 138.59E 8–1 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ79.00000°,λ7.00000°. NP2: ϕ_s283.00000°,δ83.00000°,λ169.00000°. $M_0$3.42000×10^{14}
IDC Error ellipse: s-maj=11.6km s-min=10.6km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=36.1.
JMA Event type fe.
ISC III 21 04 15 14.7–1.1 36.22N–.03 137.60E–.03 2–6 4.6s,4.6b 130 0-150
NIED III 21 04 15 00 36.30N 137.60E 5 4.8W,4.6b ¶602443760
ISCJB III 21 04 15 13.7–.45 36.23N–.03 137.59E–.02 6–2 4.6s,4.5b
BJI III 21 04 15 13.2 36.20N 137.60E 5 4.8b,4.8s
JMA III 21 04 15 14.0 36.25N 137.59E 3 4.8,4.8s
IDC III 21 04 15 14.2–.53 36.27N 137.58E 0 4.5,4.4s
NEIC III 21 04 15 15.1–.83 36.21N 137.58E 4–5 4.7b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ25.00000°,λ127.00000°. NP2:ϕ_s29.00000°,δ70.00000°,λ75.00000°. $M_0$1.76000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=172.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ54.00000°,λ89.00000°. NP2:ϕ_s223.00000°,δ36.00000°,λ92.00000°. Principal axes: T Plg81.0000°,Azm305.0000°; N Plg1.0000°,Azm42.0000°; P Plg9.0000°,Azm132.0000°
IDC Error ellipse: s-maj=14.7km s-min=7.1km az=160.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=155.0. Recorded [3 JMA] in Gifu.
JMA III 21 07 26 10.6 36.25N 137.58E 6–1 1.0
¶602443763
JMA III 21 08 48 23.8 37.74N 139.94E 9–1 2.2
¶600560306
JMA III 21 10 25 03.4 37.73N 139.97E 9–1 0.8
¶603049962
JMA III 21 13 49 07.7 37.73N 139.98E 9–1 0.6
¶602680311
JMA III 21 17 10 06.4 37.72N 139.97E 9–1 1.9
¶603049963
IDC III 21 17 52 35.9–1.9 36.14N 137.35E 0 3.2b,3.1
¶602679750
IDC Error ellipse: s-maj=29.8km s-min=16.5km az=179.0.
JMA III 21 17 52 39.9 36.25N 137.59E 3–1 1.4
¶603049964
JMA Event type fe.
JMA III 21 18 11 18.3 37.73N 139.97E 8–1 1.1
¶603049965
JMA III 21 19 25 05.3 36.25N 137.59E 3 0.6
¶602680147
JMA III 21 19 25 17.6 36.25N 137.59E 4 0.3
¶602680145
JMA III 21 19 42 41.0 36.26N 137.58E 5 1.4
¶600561265
JMA III 21 19 46 09.3 36.84N 138.60E 6–2 0.6
¶602679274
JMA III 21 20 05 36.8 37.72N 139.97E 9–1 1.1
¶602679231
ISC III 21 22 23 47.5–.95 37.01N–.03 140.62E–.05 12–8 20 0-57
IDC III 21 22 23 45.9–2.4 36.99N 140.77E 0 3.4,3.1 ¶17197766
JMA III 21 22 23 47.7 37.01N 140.60E 4–1 3.2,3.1
ISCJB III 21 22 23 47.4–.97 37.00N–.03 140.68E–.05 14–7 3.1b,3.1
ISC Event type ke.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ46.00000°,λ-95.00000°. NP2:ϕ_s28.00000°,δ44.00000°,λ-84.00000°. Principal axes: T Plg1.0000°,Azm294.0000°; N Plg4.0000°,Azm204.0000°; P Plg86.0000°,Azm38.0000°
ISCJB Event type ke.
JMA III 22 01 38 08.4 36.64N 139.53E 4–1 0.9
¶602685193
JMA III 22 01 52 44.2 37.72N 139.97E 9–1 1.9
¶602685134
ISC III 22 04 25 33.0–.82 36.10N–.05 139.82E–.05 51–7 3.9b 29 0-77
NIED III 22 04 25 00 36.20N 139.90E 29 4.0W ¶600562143
ISCJB III 22 04 25 32.0–.46 36.08N–.04 139.84E–.06 60–3 3.8b
JMA III 22 04 25 33.3–.10 36.13N 139.81E 51–1 3.9
IDC III 22 04 25 33.6–1.7 36.04N 139.74E 59–17 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ40.00000°,λ-42.00000°. NP2:ϕ_s200.00000°,δ64.00000°,λ-122.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.8km az=165.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s345.00000°,δ87.00000°,λ84.00000°. NP2: ϕ_s233.00000°,δ7.00000°,λ157.00000°. Principal axes: T Plg47.0000°,Azm249.0000°; N Plg6.0000°,Azm346.0000°; P Plg42.0000°,Azm81.0000°
IDC Error ellipse: s-maj=20.1km s-min=10.8km az=71.0.
JMA III 22 08 33 07.1 37.72N 139.97E 8–1 1.3
¶602684838
JMA III 22 09 18 45.3 37.74N 139.94E 8–1 0.9
¶602684190
ISC III 22 10 37 24.1–1.9 37.02N–.07 140.88E–.07 2–13 3.4b 18 0-57
ISCJB III 22 10 37 23.6–1.1 37.08N–.04 140.98E–.07 4–5 3.3b ¶17197987
IDC III 22 10 37 23.7–1.3 36.93N 140.96E 0 3.5,3.4
JMA III 22 10 37 25.5 37.08N 140.83E 7–1 3.2,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=18.7.
IDC Error ellipse: s-maj=26.7km s-min=24.7km az=157.0.
JMA Event type fe.
JMA III 22 10 54 49.5 35.33N 138.72E 12–1 0.8
¶603049969
JMA III 22 12 23 45.2 37.72N 139.97E 9–1 1.3
¶602684429
JMA III 22 13 20 44.0 36.26N 137.59E 4–1 0.6
¶603049971
JMA III 22 13 23 32.7 37.04N 140.63E 5–1 3.7
¶602683610
JMA Event type fe.

JMA III 22 13 50 03.1 37.73N 139.97E 8–1 0.8
¶602683006
JMA III 22 16 56 27.9 37.72N 139.97E 9–1 1.5
¶602682680
JMA III 22 17 50 20.3 37.73N 139.96E 9–1 1.5
¶16342451
ISC III 22 22 12 31.7–.44 37.10N–.02 140.77E–.03 20–1 5.5b,5.4s 1494 0-157
NIED III 22 22 12 00 37.10N 140.80E 5 5.7W,5.4s ¶602707316
BJI III 22 22 12 25.0 37.07N 141.14E 10 5.9s,5.7
JMA III 22 22 12 28.7 37.08N 140.79E 8–1 6.0,5.7
ISCJB III 22 22 12 28.4–.39 37.07N–.02 140.83E–.02 7–2 5.5s,5.4b
IDC III 22 22 12 28.1–.37 37.11N 140.76E 0 5.4s,5.4
NEIC III 22 22 12 31.8–.71 37.07N 140.64E 18–4 5.5W,5.5b
GCMT III 22 22 12 31.8–.10 37.09N 140.76E 12 5.7W,5.5b
MOS III 22 22 12 32.1–1.1 37.23N 140.81E 33 5.7b,5.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ27.00000°,λ-82.00000°. NP2:ϕ_s191.00000°,δ64.00000°,λ-94.00000°. $M_0$4.26000×10^{17}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s184.00000°,δ77.00000°,λ-149.00000°. NP2:ϕ_s86.00000°,δ60.00000°,λ-15.00000°. Principal axes: T Plg11.0000°,Azm312.0000°; N Plg57.0000°,Azm205.0000°; P Plg31.0000°,Azm49.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=152.0.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=141.0. Recorded [5U JMA] in Fukushima. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.68 $M_{\theta\theta}$0.34 $M_{\phi\phi}$1.34 $M_{r\theta}$-0.84 $M_{\theta\phi}$0.93 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s182.00000°,δ61.00000°,λ-12.00000°. NP2:ϕ_s55.00000°,δ43.00000°,λ-46.00000°. Principal axes: T 1.9900,Plg10.0000°,Azm295.0000°; N 0.5000,Plg28.0000°,Azm199.0000°; P -2.4900,Plg60.0000°,Azm43.0000° $M_0$2.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c180; s138,c354;Duration: 1$\hat{s}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.65±.03 $M_{\theta\theta}$0.14±.03; $M_{\phi\phi}$3.51±.03; $M_{r\theta}$0.71±.10; $M_{\theta\phi}$1.14±.03; $M_{\phi r}$1.72±.10; Best double couple: NP1:ϕ_s200.00000°,δ58.00000°,λ-87.00000°. NP2:ϕ_s14.00000°,δ32.00000°,λ-94.00000°. Principal axes: T 4.2910,Plg13.0000°,Azm288.0000°; N -0.2030,Plg2.0000°,Azm18.0000°; P -4.0890,Plg77.0000°,Azm118.0000° $M_0$4.19000×10^{17}
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=95.3.
ISC III 22 22 13 52.5–.93 37.04N–.02 140.77E–.04 8–5 5.3s,5.3b 228 0-147
NIED III 22 22 13 00 37.00N 140.80E 5 5.2W,5.3b ¶602707312
IDC III 22 22 13 50.8–.57 36.96N 140.71E 0 5.2s,5.2
ISCJB III 22 22 13 52.8–.52 37.01N–.02 140.81E–.04 22–3 5.4s,5.2b
JMA III 22 22 13 52.7–.10 37.04N 140.77E 1–2 5.8,5.2b
MOS III 22 22 13 53.6–.77 36.96N 140.79E 33 5.4b,5.2b
NEIC III 22 22 13 57.2–.82 37.01N 140.68E 41–7 5.5b,5.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ27.00000°,λ-110.00000°. NP2:ϕ_s179.00000°,δ65.00000°,λ-80.00000°. $M_0$7.01000×10^{16}
IDC Error ellipse: s-maj=16.3km s-min=14.4km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.3km az=12.9.
MOS Error ellipse: s-maj=14.2km s-min=10.0km az=104.2.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.2km az=134.0.
ISC III 22 22 21 10.7–.89 37.09N–.04 140.75E–.06 7–7 3.5b 20 0-57
ISCJB III 22 22 21 09.4–.96 37.09N–.03 140.89E–.06 9–4 3.5b ¶600563230
JMA III 22 22 21 10.9 37.09N 140.78E 8–1 3.6
IDC III 22 22 21 10.6–1.5 37.22N 140.58E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.6km az=4.1.
JMA Event type fe.
IDC Error ellipse: s-maj=34.0km s-min=29.0km az=126.0.
JMA III 22 22 30 26.0 37.72N 139.97E 8–1 1.4
¶603049977
JMA III 22 22 31 07.2 37.09N 140.78E 8–1 3.5
¶17198080
JMA Event type fe.
JMA III 22 22 34 03.7 37.72N 139.97E 9–1 1.3
¶602683199
ISC III 22 22 34 56.5–.71 37.12N–.03 140.76E–.04 12–4 5.5s,5.5b 1245 0-161
NIED III 22 22 34 00 37.10N 140.80E 5 5.0W,5.5b ¶16354542
BJI III 22 22 34 49.0 36.93N 141.38E 10 5.6b,5.4s
IDC III 22 22 34 54.6–.34 37.08N 140.64E 0 5.2,5.1
ISCJB III 22 22 34 55.2–.82 37.11N–.02 140.65E–.02 10–5 5.4s,5.4b
JMA III 22 22 34 56.0 37.10N 140.80E 7–1 5.5,5.4b
MOS III 22 22 34 58.3–1.1 37.17N 140.67E 33 5.6b,5.4b
NEIC III 22 22 35 00.7–.54 37.11N 140.58E 38–4 5.5b,5.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ34.00000°,λ-86.00000°. NP2:ϕ_s164.00000°,δ57.00000°,λ-93.00000°. $M_0$3.40000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.9km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=145.9.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s197.00000°,δ65.00000°,λ-83.00000°. NP2:ϕ_s1.00000°,δ26.00000°,λ-105.00000°. Principal axes: T Plg20.0000°,Azm282.0000°; N Plg7.0000°,Azm14.0000°; P Plg69.0000°,Azm122.0000°
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=101.7.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.1km az=142.0.
ISC III 22 22 36 31.7–.67 37.10N–.03 140.74E–.03 12–3 5.5b,5.2s 1180 0-165
NIED III 22 22 36 00 37.10N 140.80E 5 5.4W,5.2s ¶602443828
BJI III 22 22 36 25.8 36.96N 141.15E 10 5.8b,5.4s
IDC III 22 22 36 29.9–.39 37.13N 140.62E 0 5.2,5.1
ISCJB III 22 22 36 31.0–.90 37.07N–.02 140.67E–.02 15–5 5.4b,5.1s
JMA III 22 22 36 31.3 37.06N 140.77E 7–1 5.8,5.1s
GCMT III 22 22 36 32.8–.10 37.06N 140.74E 15–0 5.4W,5.1s
NEIC III 22 22 36 32.8–.60 37.10N 140.56E 16–3 5.5b,5.2W
MOS III 22 22 36 33.2–1.2 37.23N 140.79E 33 5.6b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ35.00000°,λ-90.00000°. NP2:ϕ_s179.00000°,δ55.00000°,λ-90.00000°. $M_0$1.32000×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=11.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=149.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c133; s130,c246; Duration: 1$\hat{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.74±.03 $M_{\theta\theta}$0.11±.02; $M_{\phi\phi}$1.63±.03; $M_{r\theta}$0.01±.07; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.17±.06; Best double couple: NP1:ϕ_s181.00000°,δ48.00000°,λ-90.00000°. NP2:ϕ_s0.00000°,δ42.00000°,λ-90.00000°. Principal axes: T 1.6390,Plg3.0000°,Azm271.0000°; N 0.1110,Plg0.0000°,Azm1.0000°; P -1.7480,Plg87.0000°,Azm97.0000° $M_0$1.69400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=143.0. Recorded [5U JMA] in Fukushima. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.10 $M_{\theta\theta}$-1.31 $M_{\phi\phi}$5.41 $M_{r\theta}$-5.84 $M_{\theta\phi}$3.56 $M_{\phi r}$-1.77 Best double couple: NP1:ϕ_s57.00000°,δ72.00000°,λ-56.00000°. NP2:ϕ_s171.00000°,δ38.00000°,λ-15.00000°. Principal axes: T 8.4200,Plg20.0000°,Azm122.0000°; N 0.3500,Plg32.0000°,Azm226.0000°; P -8.7600,Plg50.0000°,Azm6.0000° $M_0$8.60000×10^{16}
MOS Error ellipse: s-maj=8.1km s-min=6.4km az=90.0.
JMA III 22 22 43 50.3 37.08N 140.77E 6–1 2.1
¶602683189
JMA Event type fe.
JMA III 22 22 53 18.1 37.09N 140.79E 7–1 2.8
¶602683162
JMA Event type fe.
ISC III 22 22 53 28.1–.82 37.08N–.03 140.80E–.04 13–4 5.0b,4.4s 367 0-149
NIED III 22 22 53 00 37.10N 140.80E 5 4.6W,4.4s ¶602443820
IDC III 22 22 53 26.0–.47 37.06N 140.78E 0 4.6,4.6
BJI III 22 22 53 26.1 36.91N 140.83E 18 5.3b,4.9s
JMA III 22 22 53 27.3 37.07N 140.80E 5–1 5.1,4.9s
ISCJB III 22 22 53 28.7–.49 37.06N–.02 140.70E–.03 23–3 4.8b,4.5s
NEIC III 22 22 53 31.9–2.6 37.06N 140.61E 35–18 5.0b,4.5s
MOS III 22 22 53 31.6–.96 37.50N 140.62E 28 5.1b,4.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ31.00000°,λ-94.00000°. NP2:ϕ_s208.00000°,δ60.00000°,λ-88.00000°. $M_0$1.05000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.1km az=110.0.
JMA Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=29.2.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=142.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=8.5km s-min=5.3km az=118.2.

JMA	**III**	**22 23 02 55.1**	**37.08N**	**140.77E**	**9–1**	**2.3**		**¶602683152**
ISC	**III**	**22 23 03 52.7–.86**	**37.05N–.03**	**140.71E–.04**	**10–5**	**4.1b**	**50**	**0-147**
NIED	III	22 23 03 00	37.00N	140.80E	5	4.0W		**¶602443833**
IDC	III	22 23 03 51.0–.68	37.00N	140.62E	0	4.1,3.9		
JMA	III	22 23 03 52.9	37.05N	140.71E	11–1	4.3,3.9		
ISCJB	III	22 23 03 52.1–.50	37.03N–.03	140.77E–.05	20–3	4.0b,3.9		
NEIC	III	22 23 03 56.4–.42	37.00N	140.60E	35	4.4b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ49.00000°,λ-147.00000°. NP2:ϕ_s173.00000°,δ66.00000°,λ-46.00000°. $M_0$9.80000×10^{14}
IDC Error ellipse: s-maj=18.4km s-min=16.2km az=109.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s283.00000°,δ62.00000°,λ-138.00000°. NP2:ϕ_s171.00000°,δ54.00000°,λ-35.00000°. Principal axes: T Plg5.0000°,Azm45.0000°; N Plg42.0000°,Azm311.0000°; P Plg48.0000°,Azm141.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=10.7.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=8.6km az=141.0. Recorded [3 JMA] in Fukushima.

ISC	**III**	**22 23 09 52.1–1.6**	**37.28N–.06**	**140.90E–.07**	**5–11**	**3.4b**	**20**	**0-75**
IDC	III	22 23 09 51.9–1.1	37.40N	140.97E	0	3.8,3.6		**¶17198085**
ISCJB	III	22 23 09 51.3–1.1	37.24N–.04	141.04E–.06	8–5	3.5b,3.6		
JMA	III	22 23 09 53.2	37.22N	140.89E	8–1	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=20.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.3km az=38.8.
JMA Event type fe.

JMA	**III**	**22 23 23 58.4**	**37.08N**	**140.75E**	**9–1**	**3.1**	**¶603145388**

JMA Event type fe.

JMA	**III**	**22 23 47 03.3**	**37.72N**	**139.97E**	**7–1**	**0.8**	**¶602683055**
JMA	**III**	**23 01 21 10.2**	**37.71N**	**139.97E**	**8–1**	**0.9**	**¶603049978**
ISC	**III**	**23 03 57 19.8–1.2**	**36.4N–.20**	**139.70E–.07**	**13**	**3.6b**	**8**	**0-56**
JMA	III	23 03 57 01.3–.10	36.09N	140.99E	41–1	3.1		**¶17198120**
IDC	III	23 03 57 17.9–1.2	36.39N	139.66E	0	3.9,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=14.1km az=1.0.

JMA	**III**	**23 04 18 02.0**	**37.03N**	**140.77E**	**8–1**	**2.8**	**¶603049980**

JMA Event type fe.

JMA	**III**	**23 04 40 48.1**	**36.26N**	**137.59E**	**4**	**1.3**	**¶600563593**
ISC	**III**	**23 05 37 21.6–1.2**	**37.07N–.03**	**140.74E–.04**	**1–9**	**3.4b**	**22**	**0-57**
ISCJB	III	23 05 37 20.8–.75	37.08N–.03	140.82E–.06	8–3	3.4b,2.8s		**¶17198132**
IDC	III	23 05 37 21.4–1.4	36.90N	140.77E	0	3.7,3.5		
JMA	III	23 05 37 21.4	37.08N	140.76E	8–1	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.0km az=11.2.
IDC Error ellipse: s-maj=28.6km s-min=24.4km az=155.0.
JMA Event type fe.

ISC	**III**	**23 09 55 20.5–.71**	**37.11N–.03**	**140.78E–.03**	**13–4**	**4.8b,4.2s**	**543**	**0-151**
NIED	III	23 09 55 00	37.10N	140.80E	8	4.4W,4.2s		**¶602687050**
IDC	III	23 09 55 18.5–.47	37.16N	140.72E	0	4.7,4.7		
ISCJB	III	23 09 55 20.9–.47	37.14N–.02	140.72E–.03	22–3	4.7b,4.3s		
JMA	III	23 09 55 20.2	37.11N	140.76E	9–1	4.7,4.3s		
BJI	III	23 09 55 20.3	36.98N	141.02E	35	5.2b,4.7b		
MOS	III	23 09 55 23.4–.90	37.37N	140.64E	33	4.9b,4.7b		
NEIC	III	23 09 55 25.9–.54	37.16N	140.63E	50–5	4.8b,4.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ30.00000°,λ-84.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ-93.00000°. $M_0$5.00000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.1km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=135.2.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ46.00000°,λ-80.00000°. NP2:ϕ_s187.00000°,δ44.00000°,λ-100.00000°. Principal axes: T Plg1.0000°,Azm104.0000°; N Plg7.0000°,Azm194.0000°; P Plg83.0000°,Azm6.0000°
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=91.8.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.2km az=136.0. Recorded [5U JMA] in Fukushima.

JMA	**III**	**23 14 26 34.2**	**37.78N**	**139.99E**	**9–1**	**1.9**		**¶602686588**
JMA	**III**	**23 15 44 01.1**	**36.79N**	**138.58E**	**0**	**1.3**		**¶602686233**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**23 16 56 20.0**	**37.73N**	**139.97E**	**8–1**	**1.6**		**¶600564217**
ISC	**III**	**23 23 02 20.5–.94**	**37.05N–.04**	**140.67E–.06**	**9–7**	**3.5b**	**21**	**0-69**
NIED	III	23 23 02 00	37.00N	140.80E	5	3.6W		**¶17198257**
ISCJB	III	23 23 02 19.6–.99	37.01N–.04	140.93E–.08	15–6	3.6b		
IDC	III	23 23 02 19.5–1.5	37.16N	140.72E	0	3.8,3.7b		
JMA	III	23 23 02 20.9	37.02N	140.77E	10–1	3.7,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ37.00000°,λ-105.00000°. NP2:ϕ_s59.00000°,δ54.00000°,λ-79.00000°. $M_0$3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.5km az=14.8.
IDC Error ellipse: s-maj=32.2km s-min=17.0km az=153.0.
JMA Event type fe.

JMA	**III**	**24 05 03 02.7**	**36.93N**	**139.46E**	**5–1**	**2.2**		**¶602707147**
JMA	**III**	**24 12 22 07.0**	**37.73N**	**139.97E**	**8–1**	**0.9**		**¶17198341**
JMA	**III**	**24 14 36 34.8**	**37.74N**	**139.97E**	**9–1**	**1.5**		**¶603049985**
JMA	**III**	**24 17 58 36.9**	**37.09N**	**140.77E**	**10–1**	**3.1**		**¶603049986**

JMA Event type fe.

JMA	**III**	**24 19 20 58.5**	**37.72N**	**139.97E**	**8–1**	**2.4**		**¶600565484**
ISC	**III**	**24 22 07 17.0–.49**	**35.61N–.04**	**137.50E–.04**	**250–4**	**4.4b**	**214**	**0-125**
BJI	III	24 22 07 14.9	35.52N	137.54E	260	4.7b,4.6b		**¶602689103**
NEIC	III	24 22 07 16.7–.32	35.56N	137.48E	247–3	4.5b,4.6b		
ISCJB	III	24 22 07 16.1–.18	35.60N–.03	137.52E–.03	255–1	4.3b,4.6b		
IDC	III	24 22 07 16.8–.39	35.56N	137.51E	248–3	4.5,4.0		
JMA	III	24 22 07 17.1–.10	35.63N	137.61E	251–2	4.0,4.0		

ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.0km az=38.0.
IDC Error ellipse: s-maj=9.3km s-min=6.6km az=76.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**25 00 15 14.7–.10**	**37.79N**	**139.99E**	**9–2**	**1.0**		**¶603049990**
JMA	**III**	**25 00 47 56.7**	**37.78N**	**139.99E**	**11–1**	**1.2**		**¶602693462**
ISC	**III**	**25 05 54 22.5–1.2**	**35.31N–.04**	**138.73E–.04**	**18–6**		**12**	**0-43**
IDC	III	25 05 54 04.0–9.0	34.19N	139.04E	0	3.5,3.5b		**¶17198460**
ISCJB	III	25 05 54 22.7–.83	35.32N–.04	138.74E–.05	22–10	3.2b,3.5b		
JMA	III	25 05 54 23.3	35.31N	138.71E	13–1	2.5,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=147.5km s-min=63.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.9km az=141.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s40.00000°,δ78.00000°,λ-31.00000°. NP2:ϕ_s137.00000°,δ60.00000°,λ-166.00000°. Principal axes: T Plg12.0000°,Azm92.0000°; N Plg57.0000°,Azm201.0000°; P Plg30.0000°,Azm355.0000°

JMA	**III**	**25 08 45 51.5**	**37.74N**	**139.96E**	**9–1**	**0.9**		**¶602692249**
JMA	**III**	**25 11 36 20.7**	**37.72N**	**139.97E**	**9–1**	**1.5**		**¶602692837**
JMA	**III**	**25 14 11 16.6**	**35.94N**	**137.65E**	**8–1**	**1.0**		**¶600566576**
JMA	**III**	**25 15 16 38.6**	**37.72N**	**139.97E**	**8–1**	**0.9**		**¶603049254**
ISC	**III**	**25 16 21 47.8–1.2**	**37.71N–.04**	**139.96E–.03**	**5–11**	**3.5b**	**15**	**0-58**
ISCJB	III	25 16 21 47.3–.59	37.71N–.03	139.96E–.04	1–6	3.5b		**¶17198526**
JMA	III	25 16 21 47.7	37.72N	139.97E	9–1	2.4		
IDC	III	25 16 21 50.1–1.8	37.75N	139.71E	0	3.7,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=154.4.
IDC Error ellipse: s-maj=35.6km s-min=16.7km az=118.0.

ISC	**III**	**25 17 33 23.6–1.3**	**37.11N–.04**	**140.84E–.07**	**8–7**		**18**	**0-57**
ISCJB	III	25 17 33 22.8–1.1	37.10N–.04	140.93E–.08	8–5	3.4b		**¶600566763**
IDC	III	25 17 33 22.5–2.3	37.00N	140.97E	0	3.6,3.4b		
JMA	III	25 17 33 24.3	37.10N	140.81E	7–1	3.1,3.4b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.3km az=176.7.
IDC Error ellipse: s-maj=44.5km s-min=31.1km az=42.0.
JMA Event type fe.

JMA	**III**	**25 17 36 32.6**	**36.82N**	**138.59E**	**0**		**¶602691479**
JMA	**III**	**25 21 09 31.8–.20**	**36.79N**	**138.58E**	**2–3**	**1.8**	**¶602691315**
ISC	**III**	**26 05 42 59.2–1.3**	**39.0N–.10**	**140.2E–.20**	**100**	**3.4b**	**11**	**3-67**
ISCJB	III	26 05 42 57.2–1.1	39.01N–.08	140.4E–.20	100	3.5b		**¶17198608**
IDC	III	26 05 43 02.3–2.5	38.97N	139.90E	129–21	3.6,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.4km s-min=11.1km az=179.1.
IDC Error ellipse: s-maj=33.8km s-min=15.5km az=80.0.

JMA	**III**	**26 05 43 00.0**	**37.74N**	**139.97E**	**8–1**	**1.5**		**¶603049260**
JMA	**III**	**26 07 18 33.9**	**37.74N**	**139.97E**	**9–1**	**1.6**		**¶602694964**
JMA	**III**	**26 07 36 15.7**	**37.77N**	**139.94E**	**9–1**	**1.8**		**¶602695803**
JMA	**III**	**26 08 19 45.1**	**37.72N**	**139.96E**	**9–1**	**1.0**		**¶602695766**
JMA	**III**	**26 08 20 32.4**	**36.83N**	**138.58E**	**4–4**	**1.8**		**¶16360620**
JMA	**III**	**26 12 15 57.7**	**37.74N**	**139.96E**	**9–1**	**1.4**		**¶603049262**
ISC	**III**	**26 13 33 04.5–.86**	**37.07N–.03**	**140.76E–.04**	**7–5**	**3.6b**	**33**	**0-91**
NIED	III	26 13 33 00	37.10N	140.80E	5	3.8W		**¶602443901**
ISCJB	III	26 13 33 03.6–.59	37.08N–.03	140.82E–.05	11–3	3.6b		
IDC	III	26 13 33 03.4–.72	37.04N	140.72E	0	3.9,3.8		
JMA	III	26 13 33 04.3	37.08N	140.77E	9–1	3.7,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ11.00000°,λ-98.00000°. NP2:ϕ_s229.00000°,δ79.00000°,λ-88.00000°. $M_0$6.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=17.1.
IDC Error ellipse: s-maj=18.1km s-min=12.3km az=154.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s236.00000°,δ77.00000°,λ-70.00000°. NP2:ϕ_s358.00000°,δ24.00000°,λ-145.00000°. Principal axes: T Plg29.0000°,Azm310.0000°; N Plg19.0000°,Azm51.0000°; P Plg54.0000°,Azm170.0000°

JMA	**III**	**26 14 10 20.9**	**36.52N**	**139.36E**	**7–1**	**2.1**		**¶602695182**
JMA	**III**	**26 14 10 59.1**	**37.74N**	**139.97E**	**9–1**	**1.3**		**¶602695180**
JMA	**III**	**26 16 10 45.8**	**37.75N**	**139.96E**	**7–1**	**1.6**		**¶603049263**
JMA	**III**	**26 16 22 46.9**	**37.72N**	**139.97E**	**8–1**	**1.2**		**¶16455736**
JMA	**III**	**26 18 48 46.5**	**37.72N**	**139.97E**	**7–1**	**1.3**		**¶602693920**
ISC	**III**	**26 18 49 49.1–.88**	**37.13N–.03**	**140.84E–.04**	**8–5**	**4.0b**	**59**	**0-90**
NIED	III	26 18 49 00	37.10N	140.90E	5	3.8W		**¶16481061**
IDC	III	26 18 49 48.0–.71	37.13N	140.80E	0	4.1,3.9		
ISCJB	III	26 18 49 47.5–.73	37.15N–.03	140.97E–.04	7–4	4.0b,2.9s		
JMA	III	26 18 49 49.0	37.14N	140.86E	6–1	3.7,2.9s		
NEIC	III	26 18 49 54.0–.77	37.12N	140.77E	44–7	4.4b,2.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ32.00000°,λ-105.00000°. NP2:ϕ_s222.00000°,δ59.00000°,λ-81.00000°. $M_0$5.34000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=17.6km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=32.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.8km az=139.0.

JMA	**III**	**26 20 22 57.8**	**37.10N**	**140.80E**	**7–1**	**2.3**		**¶602693743**
ISC	**III**	**26 20 36 02.0–.78**	**37.11N–.03**	**140.78E–.05**	**8–5**	**4.0b**	**75**	**0-90**
NIED	III	26 20 36 00	37.10N	140.90E	5	3.9W		**¶602693736**
IDC	III	26 20 36 00.8–.62	37.12N	140.85E	0	4.1,4.0		
ISCJB	III	26 20 36 02.1–.69	37.11N–.03	140.89E–.05	19–4	4.0b,3.8s		
JMA	III	26 20 36 02.1	37.13N	140.85E	6–1	4.0,3.8s		
NEIC	III	26 20 36 06.5–.87	37.18N	140.85E	37–7	4.5b,3.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ18.00000°,λ-124.00000°. NP2:ϕ_s243.00000°,δ75.00000°,λ-80.00000°. $M_0$9.42000×10^{14}
IDC Error ellipse: s-maj=17.4km s-min=14.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=23.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s216.00000°,δ70.00000°,λ-94.00000°. NP2:ϕ_s47.00000°,δ20.00000°,λ-80.00000°. Principal axes: T Plg25.0000°,Azm309.0000°; N Plg3.0000°,Azm217.0000°; P Plg65.0000°,Azm120.0000°
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.5km az=145.0. Recorded [4 JMA] in Fukushima.

JMA	**III**	**26 20 36 26.1**	**37.14N**	**140.85E**	**4–1**	**3.4**		**¶602693734**
JMA	**III**	**27 02 37 16.2–.10**	**37.76N**	**140.00E**	**8–2**	**0.7**		**¶603049266**
JMA	**III**	**27 03 37 02.9**	**37.71N**	**139.96E**	**8–1**	**0.8**		**¶602697700**
ISC	**III**	**27 04 27 39.3–.97**	**38.4N–.10**	**140.8E–.10**	**17**	**3.5b**	**11**	**3-62**
IDC	III	27 04 27 36.9–.99	38.43N	140.89E	0	3.7,3.5		**¶17198725**
ISCJB	III	27 04 27 37.3–.77	38.37N–.10	140.9E–.20	17	3.6b,3.5		

ISC Event type ke.
ISCJB Event type ke.

JMA	**III**	**27 04 28 29.9**	**37.72N**	**139.97E**	**7–2**	**1.1**		**¶603049267**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**27 05 04 55.0**	**37.74N**	**139.97E**	**7–1**	**1.7**		**¶603049269**
JMA	**III**	**27 05 22 50.7**	**37.72N**	**139.97E**	**9–1**	**1.1**		**¶603049270**
ISC	**III**	**27 05 41 55.1–1.2**	**37.01N–.05**	**140.80E–.08**	**24–7**	**3.7b**	**17**	**0-57**
IDC	III	27 05 41 42.1–2.5	36.41N	141.93E	0	3.8,3.8		**¶17198739**
ISCJB	III	27 05 41 55.4–1.2	37.05N–.04	140.79E–.10	30–6	3.6b,3.8		
JMA	III	27 05 41 56.6	37.03N	140.63E	6–1	3.0,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=25.0km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=6.8km az=10.9.

ISC	**III**	**27 11 32 08.2–1.1**	**39.60N–.03**	**140.48E–.04**	**6–8**	**3.5b**	**28**	**0-89**
NIED	III	27 11 32 00	39.60N	140.50E	5	3.7W		**¶17198781**
ISCJB	III	27 11 32 07.5–.74	39.61N–.03	140.47E–.05	12–5	3.4b,3.2s		
IDC	III	27 11 32 07.1–.74	39.56N	140.44E	0	3.7,3.5		
JMA	III	27 11 32 08.0	39.60N	140.44E	6–1	3.6,3.5		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ56.00000°,λ-12.00000°. NP2:ϕ_s352.00000°,δ80.00000°,λ-146.00000°. $M_0$3.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.8km az=5.8.
IDC Error ellipse: s-maj=24.1km s-min=15.2km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s349.00000°,δ85.00000°,λ-157.00000°. NP2:ϕ_s257.00000°,δ67.00000°,λ-6.00000°. Principal axes: T Plg12.0000°,Azm121.0000°; N Plg66.0000°,Azm2.0000°; P Plg20.0000° ,Azm215.0000°

ISC	**III**	**27 17 09 57.1–1.2**	**36.82N–.03**	**139.45E–.03**	**2–9**	**3.5b,2.9s**	**24**	**0-91**	
NIED	III	27 17 09 00	36.80N	139.50E	5	4.0W,2.9s			**¶602443941**
JMA	III	27 17 09 56.8	36.83N	139.47E	5–1	3.6,2.9s			
ISCJB	III	27 17 09 56.5–.48	36.82N–.03	139.45E–.04	8–4	3.5b,2.9s			
IDC	III	27 17 09 56.8–.73	36.76N	139.45E	0	3.8,3.6			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ71.00000°,λ-2.00000°. NP2:ϕ_s256.00000°,δ88.00000°,λ-161.00000°. $M_0$9.76000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=40.9.
IDC Error ellipse: s-maj=19.4km s-min=10.2km az=155.0.

JMA	**III**	**27 17 57 11.4**	**37.00N**	**140.72E**	**6–1**	**3.3**			**¶603145339**

JMA Event type fe.

JMA	**III**	**27 21 23 05.0**	**36.82N**	**138.60E**	**6–3**	**0.8**			**¶602696285**
JMA	**III**	**27 22 24 03.6**	**39.40N**	**140.62E**	**10–1**	**0.9**			**¶16364016**
JMA	**III**	**28 00 06 38.2**	**37.72N**	**139.97E**	**10–1**	**1.5**			**¶603049275**
IDC	**III**	**28 00 44 01.5–9.0**	**37.55N**	**140.91E**	**0**	**3.6b,3.5**			**¶17198874**

IDC Error ellipse: s-maj=149.6km s-min=44.8km az=113.0.

JMA	**III**	**28 05 37 58.7**	**39.58N**	**140.44E**	**7–1**	**2.8**			**¶602699647**

JMA Event type fe.

ISC	**III**	**28 05 38 37.4–.90**	**39.57N–.03**	**140.45E–.03**	**12–6**	**4.1b**	**50**	**0-146**	
NIED	III	28 05 38 00	39.60N	140.50E	5	4.1W			**¶602443946**
IDC	III	28 05 38 35.4–.62	39.58N	140.35E	0	4.2,4.0			
JMA	III	28 05 38 36.7	39.60N	140.44E	6–1	4.2,4.0			
ISCJB	III	28 05 38 36.7–.43	39.58N–.03	140.42E–.04	18–3	4.1b,4.0			
NEIC	III	28 05 38 41.9–.95	39.55N	140.37E	47–9	4.2b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ24.00000°,λ121.00000°. NP2:ϕ_s110.00000°,δ70.00000°,λ77.00000°. $M_0$1.44000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=15.7km az=107.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s90.00000°,δ71.00000°,λ56.00000°. NP2:ϕ_s333.00000°,δ38.00000°,λ148.00000°. Principal axes: T Plg52.0000°,Azm320.0000°; N Plg32.0000°,Azm102.0000°; P Plg19.0000° ,Azm204.0000°
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=8.3km az=121.0. Recorded [3 JMA] in Akita.

ISC	**III**	**28 06 37 35.5–1.1**	**37.71N–.05**	**139.97E–.05**	**15**	**3.3b**	**10**	**0-58**	
IDC	III	28 06 37 28.9–2.5	37.39N	141.04E	0	3.3,3.3b			**¶602699596**
JMA	III	28 06 37 35.3	37.73N	139.97E	8–1	2.0,3.3b			
ISCJB	III	28 06 37 35.4–.69	37.71N–.04	139.98E–.05	15	3.2b,3.3b			

ISC Event type ke.
ISCJB Event type fe.

ISC	**III**	**28 14 53 51.2–1.2**	**37.00N–.03**	**140.77E–.05**	**8–8**		**18**	**0-57**	
IDC	III	28 14 53 49.5–2.4	36.97N	140.86E	0	3.7,3.5b			**¶602699492**
ISCJB	III	28 14 53 50.3–.93	37.00N–.03	140.82E–.07	10–5	3.6b,3.5b			
JMA	III	28 14 53 51.4	37.00N	140.72E	7–1	3.4,3.5b			

ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=31.7km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.1km az=10.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s48.00000°,δ55.00000°,λ-94.00000°. NP2:ϕ_s235.00000°,δ35.00000°,λ-85.00000°. Principal axes: T Plg10.0000°,Azm141.0000°; N Plg3.0000°,Azm50.0000°; P Plg80.0000° ,Azm304.0000°

ISC	**III**	**28 15 13 01.6–.93**	**37.04N–.04**	**140.71E–.05**	**10–7**	**3.5b**	**20**	**0-57**	
IDC	III	28 15 12 59.2–1.9	37.17N	140.96E	0	3.6,3.4			**¶17198965**
ISCJB	III	28 15 13 00.7–1.1	37.05N–.03	140.95E–.08	10–4	3.4b,3.4			
JMA	III	28 15 13 02.9	37.05N	140.78E	7–1	3.3,3.4			

ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=26.7km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.6km az=5.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s196.00000°,δ71.00000°,λ-82.00000°. NP2:ϕ_s353.00000°,δ20.00000°,λ-111.00000°. Principal axes: T Plg26.0000°,Azm280.0000°; N Plg7.0000°,Azm14.0000°; P Plg63.0000° ,Azm118.0000°

JMA	**III**	**28 22 05 04.8**	**37.75N**	**139.96E**	**9–1**	**1.9**			**¶603049278**
JMA	**III**	**29 17 44 52.7**	**36.78N**	**138.84E**	**7–1**	**0.7**			**¶602701514**
ISC	**III**	**29 18 52 07.2–1.0**	**35.28N–.03**	**138.72E–.04**	**16–10**	**3.3b**	**16**	**0-55**	
JMA	III	29 18 52 08.0	35.30N	138.69E	10–1	2.1			**¶17199100**
IDC	III	29 18 52 20.4–1.6	35.98N	138.48E	0	3.5,3.4			

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=22.2km s-min=17.5km az=93.0.

JMA	**III**	**29 20 15 39.5**	**38.29N**	**140.55E**	**11–1**	**1.7**			**¶600572119**
ISC	**III**	**30 05 06 31.2–1.8**	**37.25N–.08**	**140.95E–.08**	**9–11**	**3.5b**	**17**	**0-74**	
JMA	III	30 05 06 35.4	37.14N	140.86E	6–1	2.8			**¶600572484**
IDC	III	30 05 06 38.7–1.8	37.32N	141.02E	71–15	3.4,3.3			

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=11.5km az=97.0.

JMA	**III**	**30 05 31 55.7**	**36.96N**	**138.61E**	**8–1**	**3.7**			**¶602704106**

JMA Event type fe.

ISC	**III**	**30 08 13 32.5–1.1**	**37.09N–.03**	**140.84E–.06**	**6–6**	**3.7b**	**26**	**0-74**	
NIED	III	30 08 13 00	37.10N	140.80E	5	3.6W			**¶17199179**
IDC	III	30 08 13 31.5–.88	37.02N	140.86E	0	3.8,3.7			
ISCJB	III	30 08 13 31.0–.93	37.09N–.03	140.94E–.06	7–4	3.6b,3.7			
JMA	III	30 08 13 32.8	37.10N	140.81E	7–1	3.7,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ41.00000°,λ-75.00000°. NP2:ϕ_s244.00000°,δ51.00000°,λ-102.00000°. $M_0$2.71000×10^{14}
IDC Error ellipse: s-maj=18.1km s-min=15.8km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=1.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s85.00000°,δ54.00000°,λ-54.00000°. NP2:ϕ_s213.00000°,δ49.00000°,λ-130.00000°. Principal axes: T Plg3.0000°,Azm150.0000°; N Plg29.0000°,Azm242.0000°; P Plg61.0000° ,Azm55.0000°

ISC	**III**	**30 08 50 12.5–1.3**	**37.07N–.03**	**140.69E–.04**	**1–9**	**3.8b**	**30**	**0-74**	
NIED	III	30 08 50 00	37.10N	140.90E	5	3.9W			**¶16399956**
IDC	III	30 08 50 12.4–.80	37.00N	140.77E	0	3.9,3.8			
ISCJB	III	30 08 50 12.0–.84	37.07N–.03	140.90E–.05	7–4	3.7b,3.8			
JMA	III	30 08 50 13.3	37.08N	140.81E	5–1	3.8,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ17.00000°,λ-97.00000°. NP2:ϕ_s221.00000°,δ73.00000°,λ-88.00000°. $M_0$7.32000×10^{14}
IDC Error ellipse: s-maj=17.4km s-min=13.3km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=6.2.
JMA Event type fe.

ISC	**III**	**30 09 19 19.3–1.2**	**39.60N–.03**	**140.68E–.04**	**4–11**		**18**	**0-10**	
IDC	III	30 09 19 09.8–10	39.81N	141.81E	0	3.5,3.5			**¶17199187**
ISCJB	III	30 09 19 18.7–.68	39.61N–.03	140.67E–.04	12–5	3.5,3.5			
JMA	III	30 09 19 19.0	39.60N	140.64E	5–1	3.4,3.5			

ISC Event type ke.
IDC Error ellipse: s-maj=120.9km s-min=41.6km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.5km az=148.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s192.00000°,δ84.00000°,λ123.00000°. NP2:ϕ_s291.00000°,δ34.00000°,λ10.00000°. Principal axes: T Plg41.0000°,Azm133.0000°; N Plg33.0000°,Azm8.0000°; P Plg31.0000° ,Azm255.0000°

ISC	**III**	**30 10 54 50.9–1.1**	**36.80N–.03**	**138.62E–.03**	**4–8**	**3.9b,3.3s**	**42**	**0-77**	
NIED	III	30 10 54 00	36.80N	138.60E	5	4.1W,3.3s			**¶16399871**
IDC	III	30 10 54 50.2–.74	36.73N	138.66E	0	4.0,3.8			
JMA	III	30 10 54 50.4	36.82N	138.61E	0	3.9,3.8			
ISCJB	III	30 10 54 50.2–.45	36.81N–.03	138.60E–.03	9–3	3.8b,3.4s			
NEIC	III	30 10 54 51.3–1.4	36.69N	138.63E	9–9	4.3b,3.4s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ81.00000°,λ-4.00000°. NP2: ϕ_s99.00000°,δ86.00000°,λ-171.00000°. $M_0$1.59000×10^{15}
IDC Error ellipse: s-maj=21.7km s-min=6.6km az=141.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s195.00000°,δ84.00000°,λ-14.00000°. NP2:ϕ_s286.00000°,δ77.00000°,λ-174.00000°. Principal axes: T Plg5.0000°,Azm241.0000°; N Plg75.0000°,Azm350.0000°; P Plg14.0000° ,Azm150.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=44.2.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=105.0. Recorded [3 JMA] in Nagano.

JMA	**III**	**30 21 05 31.9**	**36.89N**	**139.42E**	**4**	**0.6**			**¶603049284**

ISC	**III**	**30 22 33 07.6–1.3**	**36.34N–.05**	**137.65E–.03**	**0–8**	**4.1b,3.7s**	**48**	**0-93**	
NIED	III	30 22 33 00	36.50N	137.60E	11	4.5W,3.7s			**¶16475870**
ISCJB	III	30 22 33 06.8–.58	36.33N–.04	137.63E–.03	5–4	4.1b,3.8s			
JMA	III	30 22 33 07.3–.10	36.45N	137.62E	1–2	3.9,3.8s			
NEIC	III	30 22 33 08.8–.36	36.25N	137.77E	10	4.4b,3.8s			
IDC	III	30 22 33 08.6–1.3	36.50N	137.67E	0	3.9,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ76.00000°,λ-172.00000°. NP2:ϕ_s181.00000°,δ82.00000°,λ-14.00000°. $M_0$7.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.1km az=168.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ79.00000°,λ-31.00000°. NP2:ϕ_s280.00000°,δ60.00000°,λ-168.00000°. Principal axes: T Plg13.0000°,Azm235.0000°; N Plg58.0000°,Azm346.0000°; P Plg29.0000° ,Azm138.0000°
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.5km az=139.0.
IDC Error ellipse: s-maj=42.4km s-min=7.5km az=4.0.

ISC	**III**	**30 23 14 18.5–1.2**	**35.4N–.10**	**138.6E–.30**	**18**	**3.5b**	**8**	**1-78**	
ISCJB	III	30 23 14 16.4–1.0	35.3N–.10	138.7E–.30	18	3.5b			**¶17199237**
IDC	III	30 23 14 18.0–3.5	35.39N	138.62E	14–22	3.7,3.6			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.6km s-min=13.9km az=169.1.
IDC Error ellipse: s-maj=46.8km s-min=26.7km az=76.0.

JMA	**III**	**30 23 14 51.9–.10**	**36.99N**	**138.54E**	**10–2**	**1.7**			**¶603049286**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**31 00 22 05.0–1.0**	**39.60N–.03**	**140.47E–.04**	**9–7**	**3.7b**	**23**	**0-89**	
IDC	III	31 00 22 03.2–.83	39.52N	140.39E	0	3.8,3.6			**¶17199241**
JMA	III	31 00 22 04.8	39.60N	140.44E	5–1	3.5,3.6			
ISCJB	III	31 00 22 04.5–.57	39.61N–.03	140.44E–.05	17–5	3.7b,3.6			

ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ55.00000°,λ136.00000°. NP2:ϕ_s96.00000°,δ55.00000°,λ44.00000°. Principal axes: T Plg54.0000°,Azm306.0000°; N Plg36.0000°,Azm126.0000°; P Plg0.0000° ,Azm36.0000°
ISCJB Event type fe.

JMA	**III**	**31 00 57 03.7**	**36.44N**	**137.62E**	**0**	**3.5**			**¶602706452**

JMA Event type fe.

JMA	**III**	**31 06 37 06.0**	**37.10N**	**140.81E**	**7–1**	**2.1**			**¶603049287**
JMA	**III**	**31 07 07 40.9**	**37.02N**	**140.77E**	**8–1**	**2.0**			**¶603049288**
JMA	**III**	**31 07 43 44.9**	**40.26N**	**140.36E**	**12–1**	**2.0**			**¶603049289**
JMA	**III**	**31 10 30 31.4**	**37.73N**	**139.96E**	**7–1**	**1.1**			**¶16459657**
JMA	**III**	**31 17 36 42.6**	**37.75N**	**139.97E**	**8–1**	**0.9**			**¶603049291**
JMA	**III**	**31 20 11 44.1–.10**	**36.48N**	**137.65E**	**2–2**	**0.4**			**¶602705494**
JMA	**III**	**31 23 03 20.4**	**35.32N**	**138.73E**	**14–1**	**0.8**			**¶603049293**

ISC	**IV**	**01 10 37 25.1–.97**	**40.98N–.06**	**140.03E–.08**	**167–7**	**3.4b**	**22**	**0-47**	
IDC	IV	01 10 36 59.5–2.1	39.58N	140.08E	0	3.6,3.6			**¶17199407**
ISCJB	IV	01 10 37 24.0–.58	41.00N–.05	140.0E–.10	170–4	3.3b,3.6			
JMA	IV	01 10 37 24.9–.10	41.01N	140.09E	170–1	3.0,3.6			

ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=33.1km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.8km az=178.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**01 10 49 46.4–.51**	**40.29N–.03**	**140.34E–.03**	**25–3**	**5.0b,4.3s**	**828**	**0-146**	
NIED	IV	01 10 49 00	40.30N	140.40E	5	4.9W,4.3s			**¶16402490**
IDC	IV	01 10 49 42.7–.45	40.29N	140.28E	0	4.8,4.7			
ISCJB	IV	01 10 49 43.8–.39	40.27N–.02	140.29E–.02	15–2	4.9b,4.4s			
JMA	IV	01 10 49 44.1	40.26N	140.36E	12–1	5.0,4.4s			
MOS	IV	01 10 49 46.5–.97	40.28N	140.17E	35	5.1b,4.3s			
BJI	IV	01 10 49 48.6	40.35N	140.31E	60	5.0b,4.8s			
GCMT	IV	01 10 49 49.1–.20	40.37N	140.25E	17–0	5.0W,4.8s			
NEIC	IV	01 10 49 49.1–.47	40.30N	140.21E	40–4	5.0b,4.8s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ46.00000°,λ135.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ54.00000°. $M_0$2.16000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.0km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=153.5.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s121.00000° ,δ80.00000°,λ25.00000°. NP2:ϕ_s26.00000°,δ65.00000°,λ169.00000°. Principal axes: T Plg25.0000°,Azm346.0000°; N Plg63.0000°,Azm141.0000°; P Plg10.0000°,Azm251.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=94.6.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c67; s92,c138; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.90±.14 $M_{\theta\theta}$0.88±.09; $M_{\phi\phi}$-3.78±.10; $M_{r\theta}$0.01±.28; $M_{\theta\phi}$0.13±.07; $M_{\phi r}$-1.65±.21; Best double couple: NP1:ϕ_s179.00000°,δ58.00000° ,λ91.00000°. NP2:ϕ_s357.00000°,δ32.00000°,λ88.00000°. Principal axes: T 3.2860,Plg77.0000°,Azm92.0000°; N 0.8810,Plg1.0000°,Azm359.0000° ; P -4.1690,Plg13.0000°,Azm268.0000° $M_0$3.72700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=162.0. Recorded [5U JMA] in Akita.

ISC	**IV**	**01 11 24 29.2–1.2**	**40.32N–.04**	**140.46E–.04**	**2–9**	**3.9b**	**25**	**0-145**	
NIED	IV	01 11 24 00	40.30N	140.40E	11	3.8W			**¶17199412**
ISCJB	IV	01 11 24 29.0–.64	40.28N–.04	140.39E–.04	12–4	3.7b,3.1s			
IDC	IV	01 11 24 28.4–.84	40.23N	140.66E	0	3.9,3.7			
JMA	IV	01 11 24 29.0	40.26N	140.36E	12–1	3.5,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ54.00000°,λ-178.00000°. NP2:ϕ_s168.00000°,δ88.00000°,λ-36.00000°. $M_0$6.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=28.2.
IDC Error ellipse: s-maj=23.6km s-min=18.3km az=113.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ58.00000°,λ61.00000°. NP2:ϕ_s41.00000°,δ43.00000°,λ128.00000°. Principal axes: T Plg64.0000°,Azm32.0000°; N Plg25.0000°,Azm191.0000°; P Plg8.0000° ,Azm285.0000°

JMA	**IV**	**01 12 13 59.1**	**37.72N**	**139.97E**	**9–1**	**1.8**			**¶602945398**
JMA	**IV**	**01 13 30 38.5**	**37.80N**	**139.99E**	**9–1**	**2.1**			**¶602945400**
JMA	**IV**	**01 15 10 43.7**	**40.26N**	**140.37E**	**11–1**	**1.4**			**¶602945401**

JMA IV 01 20 00 31.0 36.59N 137.70E 0 0.8
¶602567183

IDC IV 02 01 33 00.3–1.9 37.65N 139.71E 0 3.2,3.2
¶600575613

IDC Error ellipse: s-maj=42.9km s-min=35.0km az=131.0.
ISC IV 02 03 48 43.1–1.0 40.27N–.04 140.41E–.04 11–7 3.5b 23 0-64
NIED IV 02 03 48 00 40.30N 140.40E 11 3.6W **¶602567185**
IDC IV 02 03 48 41.8–.97 40.28N 140.24E 0 3.6,3.4
ISCJB IV 02 03 48 42.8–.69 40.27N–.04 140.39E–.05 21–8 3.4b,3.4
JMA IV 02 03 48 42.8 40.26N 140.37E 12–1 3.9,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ77.00000°,λ-177.00000°. NP2:ϕ_s300.00000°,δ87.00000°,λ-13.00000°. $M_0$3.24000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=18.8km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.4km az=141.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s320.00000°,δ74.00000°,λ18.00000°. NP2:ϕ_s224.00000°,δ73.00000°,λ163.00000°. Principal axes: T Plg24.0000°,Azm182.0000°; N Plg66.0000°,Azm360.0000°; P Plg1.0000° ,Azm92.0000°
ISC IV 02 07 55 52.8–.51 36.19N–.03 139.90E–.03 53–4 4.8b,3.8s 759 0-156
NIED IV 02 07 55 00 36.20N 140.00E 56 4.8W,3.8s **¶16455816**
BJI IV 02 07 55 47.8 36.00N 140.18E 48 5.0b,4.9b
MOS IV 02 07 55 50.3–.85 36.26N 139.77E 39 5.1b,4.9b
IDC IV 02 07 55 52.5–1.1 36.19N 139.86E 48–10 4.8,4.7L
JMA IV 02 07 55 53.6–.10 36.21N 139.96E 54–1 5.0,4.7L
ISCJB IV 02 07 55 53.3–.28 36.18N–.02 139.79E–.02 67–2 4.8b,4.7L
NEIC IV 02 07 55 55.1–.40 36.21N 139.77E 69–3 4.8b,4.7L
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ20.00000°,λ105.00000°. NP2:ϕ_s53.00000°,δ71.00000°,λ85.00000°. $M_0$1.73000×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.5km az=101.8.
IDC Error ellipse: s-maj=10.5km s-min=6.9km az=59.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s53.00000°,δ56.00000°,λ90.00000°. NP2: ϕ_s233.00000°,δ34.00000°,λ90.00000°. Principal axes: T Plg79.0000°,Azm323.0000° ; N Plg0.0000°,Azm53.0000°; P Plg11.0000°,Azm143.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.9km az=150.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=140.0. Felt [IV] at Narita, [III] at Yokohama and [II] at Tokyo and Yokosuka. Also felt at Abiko, Atsugi, Fujisawa, Kawagoe, Kawaguchi, Mito, Numata, Otawara, Sagamihara, Tsukuba and Yamatoma. Recorded [5L JMA] in Ibaraki.
JMA IV 02 10 57 21.6–.10 36.98N 138.63E 3–2 1.8
¶600575955
ISC IV 02 14 38 09.5–.51 37.10N–.03 140.82E–.03 17–2 4.8b,3.9s 398 0-147
NIED IV 02 14 38 00 37.10N 140.90E 5 4.6W,3.9s **¶16455820**
IDC IV 02 14 38 06.7–.40 37.07N 140.84E 0 4.6,4.6
BJI IV 02 14 38 06.5 36.90N 140.84E 14 4.9b,4.6b
ISCJB IV 02 14 38 08.3–.49 37.09N–.02 140.80E–.03 16–3 4.7b,3.9s
JMA IV 02 14 38 08.0 37.10N 140.83E 6–1 4.8,3.9s
NEIC IV 02 14 38 09.4–2.3 37.09N 140.70E 14–14 4.8b,3.9s
MOS IV 02 14 38 10.7–1.1 37.10N 140.79E 33 4.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ28.00000°,λ-90.00000°. NP2:ϕ_s246.00000°,δ62.00000°,λ-90.00000°. $M_0$7.79000×10^{15}
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=35.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ61.00000°,λ-102.00000°. NP2:ϕ_s80.00000°,δ31.00000°,λ-69.00000°. Principal axes: T Plg15.0000°,Azm334.0000°; N Plg11.0000°,Azm241.0000°; P Plg71.0000° ,Azm117.0000°
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=131.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=105.0.
ISC IV 02 16 43 24.9–1.0 37.02N–.03 140.81E–.05 7–6 3.9b,3.0s 55 0-147
NIED IV 02 16 43 00 37.00N 140.80E 5 4.0W,3.0s **¶16406020**
ISCJB IV 02 16 43 23.9–.74 37.00N–.03 140.90E–.04 10–4 3.9b,3.0s
IDC IV 02 16 43 23.8–.56 36.95N 140.85E 0 4.1,4.0
JMA IV 02 16 43 25.3 37.04N 140.78E 6–1 4.3,4.0
NEIC IV 02 16 43 29.0–1.1 36.82N 140.85E 39–10 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s249.00000°,δ65.00000°,λ-90.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.2km az=15.2.
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=112.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s248.00000°,δ74.00000°,λ-94.00000°. NP2:ϕ_s84.00000°,δ17.00000°,λ-75.00000°. Principal axes: T Plg29.0000°,Azm342.0000°; N Plg4.0000°,Azm250.0000°; P Plg61.0000° ,Azm152.0000°
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=9.0km az=76.0. Recorded [3 JMA] in Fukushima.
ISC IV 02 18 55 00.4–1.4 37.04N–.06 140.86E–.07 6–9 16 0-57
ISCJB IV 02 18 55 00.5–1.1 37.09N–.04 140.90E–.07 6–5 3.2b **¶17199564**
JMA IV 02 18 55 01.6 37.09N 140.81E 5–1 3.2
IDC IV 02 18 55 04.6–2.3 36.47N 140.69E 0 3.6,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.9km az=9.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s52.00000°,δ49.00000°,λ-79.00000°. NP2:ϕ_s215.00000°,δ43.00000°,λ-103.00000°. Principal axes: T Plg3.0000°,Azm134.0000°; N Plg9.0000°,Azm224.0000°; P Plg81.0000° ,Azm26.0000°
IDC Error ellipse: s-maj=33.9km s-min=19.9km az=17.0.
ISC IV 02 23 24 17.6–1.3 37.03N–.04 140.84E–.08 7–7 3.4b 16 0-61
NIED IV 02 23 24 00 37.00N 140.80E 5 3.4W **¶17199588**
ISCJB IV 02 23 24 16.2–1.2 37.04N–.04 140.91E–.09 11–4 3.5b
IDC IV 02 23 24 17.0–1.8 36.92N 140.81E 0 3.6,3.4
JMA IV 02 23 24 17.9 37.03N 140.78E 7–1 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ29.00000°,λ-134.00000°. NP2:ϕ_s263.00000°,δ70.00000°,λ-69.00000°. $M_0$1.54000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.4km az=169.0.
IDC Error ellipse: s-maj=31.7km s-min=19.4km az=11.0.
JMA Event type fe.
JMA IV 03 00 23 00.8 37.75N 139.97E 8–1 2.2
¶602567212
ISC IV 03 01 54 09.3–1.0 37.08N–.04 140.83E–.05 6–5 3.7b 36 0-82
NIED IV 03 01 54 00 37.10N 140.90E 5 3.9W **¶16406023**
ISCJB IV 03 01 54 07.9–.77 37.09N–.04 140.91E–.05 8–3 3.8b
IDC IV 03 01 54 07.6–.93 37.06N 141.01E 0 3.9,3.8
JMA IV 03 01 54 09.2 37.09N 140.81E 6–1 4.1,3.8
NEIC IV 03 01 54 13.7–2.2 37.01N 140.79E 39–18 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ28.00000°,λ-96.00000°. NP2:ϕ_s246.00000°,δ62.00000°,λ-87.00000°. $M_0$7.68000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.7km az=36.3.
IDC Error ellipse: s-maj=23.3km s-min=20.0km az=86.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=21.0km s-min=13.0km az=74.0. Recorded [3 JMA] in Fukushima.
ISC IV 03 02 49 29.2–.73 36.21N–.04 139.94E–.05 54–6 3.9b 44 0-117
NIED IV 03 02 49 00 36.20N 140.00E 56 4.1W **¶16506166**
ISCJB IV 03 02 49 28.6–.46 36.21N–.05 140.00E–.06 63–3 3.9b
JMA IV 03 02 49 29.6–.10 36.20N 139.97E 53–1 4.2
IDC IV 03 02 49 30.3–1.4 36.25N 139.80E 61–13 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ16.00000°,λ117.00000°. NP2:ϕ_s58.00000°,δ76.00000°,λ83.00000°. $M_0$1.42000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=7.8km az=162.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s64.00000°,δ73.00000°,λ87.00000°. NP2:ϕ_s253.00000°,δ17.00000°,λ98.00000°. Principal axes: T Plg62.0000°,Azm330.0000°; N Plg2.0000°,Azm65.0000°; P Plg28.0000° ,Azm156.0000°

IDC Error ellipse: s-maj=15.3km s-min=8.1km az=62.0.
ISC IV 03 04 35 59.7–1.4 37.05N–.06 140.88E–.06 6–8 3.3b 21 0-57
IDC IV 03 04 35 58.7–2.4 36.90N 141.00E 0 3.5,3.3 **¶16406025**
ISCJB IV 03 04 35 59.4–.99 37.08N–.03 140.94E–.07 8–4 3.4b,3.3
JMA IV 03 04 36 00.7 37.10N 140.84E 8–1 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=29.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.2km az=17.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ61.00000°,λ-86.00000°. NP2:ϕ_s18.00000°,δ29.00000°,λ-98.00000°. Principal axes: T Plg16.0000°,Azm293.0000°; N Plg4.0000°,Azm24.0000°; P Plg74.0000° ,Azm127.0000°
ISC IV 03 06 23 21.8–1.1 37.02N–.04 140.46E–.05 8–10 3.7b 21 0-57
NIED IV 03 06 23 00 37.00N 140.50E 5 3.5W **¶17199622**
IDC IV 03 06 23 20.0–2.0 37.10N 140.58E 0 3.8,3.6
ISCJB IV 03 06 23 22.1–.53 37.00N–.03 140.56E–.05 19–6 3.5b,3.6
JMA IV 03 06 23 22.2 37.00N 140.49E 5–2 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ28.00000°,λ-85.00000°. NP2:ϕ_s173.00000°,δ62.00000°,λ-92.00000°. $M_0$1.80000×10^{14}
IDC Error ellipse: s-maj=38.2km s-min=29.1km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=30.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s158.00000°,δ80.00000°,λ-89.00000°. NP2:ϕ_s332.00000°,δ10.00000°,λ-95.00000°. Principal axes: T Plg35.0000°,Azm247.0000°; N Plg1.0000°,Azm338.0000°; P Plg55.0000° ,Azm69.0000°
JMA IV 03 07 38 51.8–.10 36.19N 139.88E 79–1 2.9
¶602567219
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 03 09 04 53.4 37.03N 140.78E 7–1 2.7
¶600576644
JMA IV 03 19 15 58.6 37.73N 139.97E 9–1 1.7
¶17199689
ISC IV 04 07 22 02.4–1.0 37.22N–.04 140.81E–.06 12–6 3.8b,3.2s 28 0-147
NIED IV 04 07 22 00 37.20N 140.90E 5 3.9W,3.2s **¶600577265**
JMA IV 04 07 22 02.0 37.21N 140.94E 8–1 3.5,3.2s
IDC IV 04 07 22 09.4–2.2 37.21N 140.88E 69–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s274.00000°,δ58.00000°,λ-94.00000°. $M_0$6.95000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=14.6km az=134.0.
JMA IV 04 12 55 39.8–.10 36.04N 139.93E 44–1 1.2
¶602945407
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 05 14 41 38.2 36.82N 138.62E 0 0.5
¶602567225
JMA IV 06 05 18 25.4 37.04N 140.78E 7–1 2.6
¶600578731
ISC IV 06 11 48 55.8–1.1 37.05N–.03 140.32E–.03 11–9 3.7b 29 0-61
NIED IV 06 11 48 00 37.00N 140.30E 35 3.9W **¶16413281**
IDC IV 06 11 48 54.5–1.7 36.96N 140.40E 0 3.7,3.6
ISCJB IV 06 11 48 56.1–.40 37.04N–.03 140.34E–.03 20–5 3.6b,3.6
JMA IV 06 11 48 56.3 37.05N 140.32E 12–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ59.00000°,λ-164.00000°. NP2:ϕ_s182.00000°,δ76.00000°,λ-32.00000°. $M_0$6.96000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=21.0km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=152.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ69.00000°,λ23.00000°. NP2:ϕ_s279.00000°,δ69.00000°,λ157.00000°. Principal axes: T Plg31.0000°,Azm238.0000°; N Plg59.0000°,Azm58.0000°; P Plg0.0000° ,Azm148.0000°
ISC IV 06 20 56 45.2–1.4 37.04N–.07 140.85E–.07 7–10 3.4b 15 0-61
ISCJB IV 06 20 56 43.5–1.3 37.05N–.05 141.08E–.09 10–6 3.3b **¶17200050**
IDC IV 06 20 56 43.8–1.8 36.99N 141.08E 0 3.4,3.3b
JMA IV 06 20 56 46.3 37.10N 140.81E 7–1 2.9,3.3b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=7.6km az=9.9.
IDC Error ellipse: s-maj=40.8km s-min=23.9km az=54.0.
JMA Event type fe.
JMA IV 07 12 03 45.8 39.20N 141.87E 57–1 3.6
¶600579951
JMA Event type fe.
ISC IV 07 19 46 09.7–1.0 36.05N–.05 139.98E–.06 49–9 3.6b 19 0-56
IDC IV 07 19 46 01.2–2.4 36.25N 140.56E 0 4.0L,3.7 **¶17200159**
ISCJB IV 07 19 46 09.0–.72 36.03N–.05 139.99E–.07 56–6 3.5b,3.7
JMA IV 07 19 46 10.5–.10 36.05N 139.93E 44–1 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=60.1km s-min=23.5km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=8.2km az=153.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s64.00000°,δ74.00000°,λ92.00000°. NP2: ϕ_s236.00000°,δ16.00000°,λ82.00000°. Principal axes: T Plg61.0000°,Azm337.0000° ; N Plg2.0000°,Azm243.0000°; P Plg29.0000°,Azm152.0000°
JMA IV 07 22 02 28.4 37.79N 139.99E 9–1 1.8
¶600580320
JMA IV 08 09 40 03.9 35.92N 138.03E 9 3.6
NIED IV 08 09 40 00 35.90N 138.00E 20 3.4W **¶600580779**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s162.00000°,δ86.00000°,λ-12.00000°. NP2:ϕ_s253.00000°,δ78.00000°,λ-176.00000°. Principal axes: T Plg6.0000°,Azm208.0000°; N Plg77.0000°,Azm326.0000°; P Plg11.0000° ,Azm117.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ76.00000°,λ-173.00000°. NP2:ϕ_s160.00000°,δ84.00000°,λ-14.00000°. $M_0$1.45000×10^{14}
JMA IV 08 17 44 45.6 37.72N 139.95E 8–1 1.4
¶600581160
JMA IV 08 18 01 20.3–.20 36.84N 138.56E 0–2 1.5
¶600581173
ISC IV 09 14 29 41.4–1.0 36.15N–.05 139.80E–.05 50–9 3.5b 21 0-60
IDC IV 09 14 29 32.7–1.9 36.34N 140.34E 0 3.9s,3.9 **¶600581936**
ISCJB IV 09 14 29 40.5–.66 36.13N–.05 139.83E–.07 58–5 3.9s,3.5b
JMA IV 09 14 29 41.3–.10 36.13N 139.83E 50–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=46.4km s-min=21.6km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=7.5km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s48.00000°,δ59.00000°,λ90.00000°. NP2: ϕ_s228.00000°,δ31.00000°,λ90.00000°. Principal axes: T Plg76.0000°,Azm318.0000° ; N Plg0.0000°,Azm48.0000°; P Plg14.0000°,Azm138.0000°
IDC IV 09 17 25 35.9–5.6 39.51N 141.02E 137–38 3.4,3.1
¶17200353
IDC Error ellipse: s-maj=73.4km s-min=16.1km az=69.0.
JMA IV 09 18 55 40.5 37.74N 139.97E 9–1 1.7
¶602945415
ISC IV 10 08 52 29.8–.88 37.10N–.03 140.73E–.05 6–6 3.7b 32 0-147
NIED IV 10 08 52 00 37.10N 140.80E 5 3.6W **¶16416714**
ISCJB IV 10 08 52 29.0–.67 37.08N–.03 140.88E–.05 13–3 3.6b
IDC IV 10 08 52 28.8–.76 37.11N 140.78E 0 3.8,3.7
JMA IV 10 08 52 30.1 37.09N 140.78E 8–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ42.00000°,λ-63.00000°. NP2:ϕ_s231.00000°,δ53.00000°,λ-112.00000°. $M_0$2.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.8km az=14.6.
IDC Error ellipse: s-maj=20.2km s-min=14.9km az=104.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s191.00000°,δ72.00000°,λ-86.00000°. NP2:ϕ_s359.00000°,δ18.00000°,λ-102.00000°. Principal axes: T Plg27.0000°,Azm278.0000°; N Plg4.0000°,Azm10.0000°; P Plg63.0000° ,Azm107.0000°
ISC IV 10 11 22 15.2–1.1 37.15N–.04 140.72E–.04 3–7 4.0b 66 0-147
NIED IV 10 11 22 00 37.10N 140.80E 5 3.8W **¶16416715**

IDC IV 10 11 22 14.8–.61 37.15N 140.66E 0 4.0,3.8
JMA IV 10 11 22 15.8 37.08N 140.77E 7–1 3.8,3.8
NEIC IV 10 11 22 20.0–.23 37.11N 140.63E 35 4.7b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ35.00000°,λ-78.00000°. NP2:ϕ_s166.00000°,δ56.00000°,λ-99.00000°. $M_0$5.95000×10^{14}
IDC Error ellipse: s-maj=19.1km s-min=13.9km az=109.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.4km az=141.0. Recorded [4 JMA] in Fukushima.
ISC IV 10 14 02 32.1–.97 37.07N–.03 140.77E–.05 4–7 22 0-57
ISCJB IV 10 14 02 31.6–.71 37.08N–.03 140.81E–.06 7–3 3.1b **¶17200468**
JMA IV 10 14 02 32.0 37.08N 140.77E 6–1 3.3
IDC IV 10 14 02 32.1–2.3 36.80N 140.82E 0 3.4,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.4km az=15.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s159.00000°,δ58.00000°,λ-113.00000°. NP2:ϕ_s17.00000°,δ39.00000°,λ-58.00000°. Principal axes: T Plg10.0000°,Azm265.0000°; N Plg19.0000°,Azm171.0000°; P Plg68.0000°,Azm21.0000°
IDC Error ellipse: s-maj=44.2km s-min=29.5km az=46.0.
JMA IV 10 20 06 57.2 37.05N 140.76E 9–1 2.8 ¶600583021
JMA Event type fe.
JMA IV 10 21 57 23.9 37.72N 139.98E 8–1 2.1 ¶600583050
JMA IV 11 02 26 02.4 37.72N 139.98E 9–1 2.3 ¶16424673
JMA IV 11 04 30 36.5 37.79N 139.99E 9–1 1.8 ¶602945419
ISC IV 11 05 59 08.7–1.2 36.79N–.03 138.61E–.03 3–9 3.6b,3.4s 29 0-92
NIED IV 11 05 59 00 36.80N 138.60E 5 4.2W,3.4s **¶17200531**
ISCJB IV 11 05 59 08.0–.50 36.79N–.03 138.59E–.04 9–4 3.6b,3.4s
JMA IV 11 05 59 07.7 36.82N 138.60E 0 3.7,3.4s
IDC IV 11 05 59 07.8–.79 36.61N 138.74E 0 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ75.00000°,λ-180.00000°. NP2:ϕ_s17.00000°,δ90.00000°,λ-15.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.4km az=34.7.
JMA Event type fe.
IDC Error ellipse: s-maj=20.1km s-min=7.2km az=162.0.
JMA IV 11 06 00 24.2 36.82N 138.60E 0 3.5
NIED IV 11 06 00 00 36.80N 138.60E 5 3.9W **¶600583271**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ79.00000°,λ0.00000°. NP2: ϕ_s114.00000°,δ90.00000°,λ-169.00000°. $M_0$7.61000×10^{14}
JMA IV 11 08 17 20.5 37.04N 140.67E 8–1 4.8 ¶602945420
JMA IV 11 08 19 31.4 37.01N 140.72E 11 4.5 ¶600583392
JMA Event type fe.
JMA IV 11 08 20 26.5 37.00N 140.75E 7–1 4.2 ¶600583395
JMA Event type fe.
ISC IV 11 08 26 34.0–.68 37.08N–.04 140.53E–.04 40–5 5.1b 642 0-161
IDC IV 11 08 26 27.8–.33 37.07N 140.45E 0 5.0,4.9 **¶16416749**
ISCJB IV 11 08 26 28.8–.47 37.08N–.02 140.50E–.02 12–2 5.7s,5.0b
BJI IV 11 08 26 29.6 37.05N 140.50E 23 5.4s,5.1
JMA IV 11 08 26 29.0 37.06N 140.62E 5–1 5.4,5.1
MOS IV 11 08 26 30.6–1.2 37.07N 140.49E 26 5.3b,5.1
NEIC IV 11 08 26 35.3–.51 37.06N 140.35E 49–4 5.2b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=42.1.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s118.00000°,δ48.00000°,λ-77.00000°. NP2:ϕ_s279.00000°,δ44.00000°,λ-104.00000°. Principal axes: T Plg2.0000°,Azm199.0000°; N Plg10.0000°,Azm289.0000°; P Plg80.0000°,Azm98.0000°
MOS Error ellipse: s-maj=7.9km s-min=5.2km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=143.0. Recorded [5L JMA] in Fukushima.
ISC IV 11 08 30 52.2–.68 37.01N–.07 140.72E–.08 35 4.1b 25 2-147
IDC IV 11 08 30 46.8–.85 37.02N 140.75E 0 4.1,4.0 **¶16587463**
ISCJB IV 11 08 30 49.9–.53 37.01N–.05 140.82E–.07 35 4.1b,4.0
NEIC IV 11 08 30 52.0–.49 36.97N 140.63E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=20.3km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=19.4.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=9.7km az=104.0.
ISC IV 11 08 33 13.8–.87 37.1N–.20 140.7E–.10 35 3.7b 18 2-147
ISCJB IV 11 08 33 11.2–.70 37.0N–.10 140.88E–.08 35 3.8b **¶16706384**
IDC IV 11 08 33 14.8–3.9 37.02N 140.59E 44–37 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=8.5km az=159.1.
IDC Error ellipse: s-maj=24.4km s-min=18.2km az=83.0.
ISC IV 11 08 43 54.2–.94 37.04N–.04 140.70E–.08 13–7 3.7b 15 0-147
JMA IV 11 08 43 54.3 37.05N 140.71E 12–1 3.7 **¶17200560**
IDC IV 11 08 43 58.2–4.0 36.74N 140.09E 64–35 3.8,3.7
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=37.1km s-min=22.6km az=84.0.
ISC IV 11 08 45 37.1–1.0 37.06N–.03 140.56E–.03 10–6 4.7b 117 0-147
IDC IV 11 08 45 35.6–.50 37.07N 140.47E 0 4.7,4.6 **¶16587453**
ISCJB IV 11 08 45 37.6–.46 37.06N–.02 140.61E–.04 21–3 4.7b,4.6
JMA IV 11 08 45 37.3 37.02N 140.62E 10–1 4.8,4.6
MOS IV 11 08 45 39.8–1.5 37.18N 140.65E 41 4.8b,4.6
NEIC IV 11 08 45 42.2–.79 37.15N 140.44E 40–7 4.7b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=13.5km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=24.0.
JMA Event type fe.
MOS Error ellipse: s-maj=9.3km s-min=6.9km az=84.3.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=132.0.
IDC IV 11 08 54 54.7–1.1 37.09N 140.61E 0 4.0,3.8 ¶17200566
IDC Error ellipse: s-maj=27.0km s-min=22.4km az=117.0.
ISC IV 11 08 58 02.6–.72 37.06N–.03 140.52E–.03 11–4 5.2s,5.0b 699 0-157
ISCJB IV 11 08 58 01.2–.49 37.02N–.02 140.42E–.02 9–3 5.1s,4.9b **¶16416813**
JMA IV 11 08 58 02.8 37.02N 140.61E 10–1 4.9,4.9b
BJI IV 11 08 58 02.3 37.00N 140.40E 17 5.4s,5.2b
MOS IV 11 08 58 05.4–.81 37.34N 140.36E 27 5.1b,5.2b
IDC IV 11 08 58 06.2–3.6 37.04N 140.46E 33–26 5.2s,5.2
NEIC IV 11 08 58 07.2–.49 37.03N 140.37E 38–4 5.0b,5.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.9km az=144.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s321.00000°,δ66.00000°,λ-93.00000°. NP2:ϕ_s148.00000°,δ24.00000°,λ-83.00000°. Principal axes: T Plg21.0000°,Azm53.0000°; N Plg3.0000°,Azm322.0000°; P Plg69.0000°,Azm225.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=94.0.
IDC Error ellipse: s-maj=12.5km s-min=10.0km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=134.0. Recorded [4 JMA] in Fukushima and Ibaraki.
ISC IV 11 08 59 45.1–.88 37.02N–.03 140.65E–.03 12–5 4.8b 137 0-153
ISCJB IV 11 08 59 45.0–.43 37.01N–.02 140.79E–.04 20–2 4.7b **¶16505327**
JMA IV 11 08 59 45.3 36.99N 140.73E 12–1 4.8
MOS IV 11 08 59 48.8–.93 37.29N 140.69E 39 4.9b
IDC IV 11 08 59 49.6–2.5 37.07N 140.63E 41–22 4.7,4.6
NEIC IV 11 08 59 50.7–.66 37.08N 140.60E 50–6 4.7b,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=30.5.
JMA Event type fe.
MOS Error ellipse: s-maj=9.5km s-min=7.0km az=90.3.
IDC Error ellipse: s-maj=14.6km s-min=12.9km az=104.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=123.0.
ISC IV 11 09 03 57.3–.00 37.05N–.03 140.61E–.04 8–7 4.0b 45 0-152
IDC IV 11 09 03 56.1–.60 37.05N 140.61E 0 4.9,4.9s **¶16706407**
ISCJB IV 11 09 03 57.2–.48 37.02N–.03 140.75E–.04 19–3 4.0b,4.9s
JMA IV 11 09 03 57.5 37.02N 140.68E 9–1 4.1,4.9s
NEIC IV 11 09 04 02.6–.99 37.01N 140.51E 47–9 4.4b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=12.3km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.4km az=21.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.9km az=57.0.
ISC IV 11 09 05 18.8–.53 37.02N–.02 140.64E–.03 15–3 5.0s,5.0b 708 0-156
IDC IV 11 09 05 16.4–.37 37.02N 140.56E 0 5.0,5.0b **¶602553178**
BJI IV 11 09 05 18.8 37.00N 140.60E 30 5.4s,5.3b
ISCJB IV 11 09 05 18.7–.42 37.03N–.02 140.52E–.02 21–2 5.0s,5.0b
JMA IV 11 09 05 18.4 36.99N 140.73E 12–1 5.1,5.0b
MOS IV 11 09 05 20.9–.91 37.33N 140.50E 28 5.3b,5.0b
NEIC IV 11 09 05 23.7–.48 37.03N 140.45E 48–4 4.9b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=143.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ55.00000°,λ-76.00000°. NP2:ϕ_s107.00000°,δ37.00000°,λ-108.00000°. Principal axes: T Plg9.0000°,Azm30.0000°; N Plg11.0000°,Azm122.0000°; P Plg76.0000°,Azm263.0000°
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=98.6.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=136.0. Recorded [4 JMA] in Fukushima, Ibaraki and Tochigi.
JMA IV 11 09 15 13.2 37.03N 140.70E 10–1 3.5 ¶600583405
JMA IV 11 09 25 39.1 37.01N 140.64E 9–1 3.1 ¶600583407
ISC IV 11 09 35 17.7–.96 37.06N–.04 140.67E–.04 10–6 3.6b 25 0-147
IDC IV 11 09 35 16.1–.75 37.08N 140.58E 0 4.6,4.6s **¶602553101**
ISCJB IV 11 09 35 17.2–.54 37.06N–.04 140.75E–.06 18–4 4.5s,3.7b
JMA IV 11 09 35 17.3 37.05N 140.67E 7–1 3.5,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=16.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.2km az=19.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ49.00000°,λ-77.00000°. NP2:ϕ_s211.00000°,δ43.00000°,λ-104.00000°. Principal axes: T Plg3.0000°,Azm131.0000°; N Plg10.0000°,Azm222.0000°; P Plg80.0000°,Azm24.0000°
ISC IV 11 09 44 58.2–.88 37.01N–.03 140.75E–.04 13–5 3.8b 34 0-82
ISCJB IV 11 09 44 57.4–.63 36.99N–.03 140.87E–.05 20–4 3.8b **¶17200576**
JMA IV 11 09 44 58.4 37.00N 140.75E 11–1 4.2
IDC IV 11 09 45 02.6–2.6 36.97N 140.80E 48–25 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.6km az=20.3.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=12.1km az=57.0.
ISC IV 11 09 48 13.5–.79 37.02N–.03 140.61E–.04 8–5 4.9s,4.5b 130 0-147
IDC IV 11 09 48 12.4–.48 37.04N 140.57E 0 4.9s,4.9 **¶16418130**
ISCJB IV 11 09 48 13.6–.40 36.99N–.02 140.72E–.04 22–2 4.8s,4.5b
JMA IV 11 09 48 14.1 36.97N 140.65E 10–1 4.6,4.5b
MOS IV 11 09 48 15.6–1.2 37.06N 140.72E 35 4.7b,4.5b
NEIC IV 11 09 48 16.4–1.7 37.04N 140.62E 26–11 4.8b,4.5b
BJI IV 11 09 48 17.0 37.00N 140.60E 45 5.2b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.4km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s326.00000°,δ66.00000°,λ-73.00000°. NP2:ϕ_s109.00000°,δ30.00000°,λ-124.00000°. Principal axes: T Plg19.0000°,Azm43.0000°; N Plg16.0000°,Azm139.0000°; P Plg65.0000°,Azm266.0000°
MOS Error ellipse: s-maj=8.1km s-min=5.7km az=93.9.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.3km az=117.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
JMA IV 11 09 50 02.7–.10 37.06N 140.69E 10–4 3.3 ¶600583418
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 09 54 59.3–1.3 37.11N–.05 140.59E–.07 6–9 4.0b 36 0-147
ISCJB IV 11 09 54 59.7–.50 37.11N–.04 140.75E–.06 20–3 4.1b **¶16587456**
JMA IV 11 09 54 59.9 37.07N 140.68E 8–1 4.3
IDC IV 11 09 55 00.8–4.7 37.10N 140.57E 15–29 4.2,4.1
NEIC IV 11 09 55 05.7–.86 37.04N 140.55E 57–8 4.2b,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.1km az=7.3.
JMA Event type fe.
IDC Error ellipse: s-maj=18.0km s-min=13.3km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=7.5km az=87.0. Recorded [3 JMA] in Fukushima.
JMA IV 11 10 02 36.3 37.03N 140.62E 7–2 3.5 ¶600583429
JMA Event type fe.
ISC IV 11 10 05 06.3–1.0 37.07N–.03 140.60E–.04 8–7 3.8b 31 0-91
ISCJB IV 11 10 05 05.9–.56 37.08N–.03 140.69E–.04 15–4 4.1s,3.8b **¶602945422**
JMA IV 11 10 05 06.0 37.07N 140.62E 7–2 4.3,3.8b
IDC IV 11 10 05 12.5–2.8 37.06N 140.40E 56–26 4.3,4.2s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.6km az=28.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s279.00000°,δ46.00000°,λ-103.00000°. NP2:ϕ_s117.00000°,δ46.00000°,λ-77.00000°. Principal axes: T Plg0.0000°,Azm18.0000°; N Plg9.0000°,Azm288.0000°; P Plg81.0000°,Azm108.0000°
IDC Error ellipse: s-maj=20.8km s-min=16.2km az=67.0.
JMA IV 11 10 09 37.4 37.06N 140.74E 10–1 3.5 ¶600583430
JMA Event type fe.
JMA IV 11 10 10 08.4 37.09N 140.61E 14–1 3.9 ¶600583433
JMA Event type fe.
JMA IV 11 10 11 30.4 37.04N 140.67E 9–1 3.7 ¶600583439
JMA IV 11 10 13 50.5 37.11N 140.64E 12–1 2.8 ¶600583443
JMA IV 11 10 16 06.2 37.02N 140.71E 9–1 3.1 ¶600583453
ISC IV 11 10 19 00.1–.89 37.02N–.03 140.59E–.04 11–5 4.4b 108 0-147
IDC IV 11 10 18 58.7–.51 37.07N 140.59E 0 4.4,4.3 **¶16455918**
ISCJB IV 11 10 18 59.7–.42 37.03N–.03 140.65E–.04 19–3 4.7s,4.3b
JMA IV 11 10 18 59.6 37.02N 140.62E 9–1 4.6,4.3b
MOS IV 11 10 19 01.9–1.2 37.05N 140.50E 33 4.5b,4.3b
NEIC IV 11 10 19 04.0–.37 37.04N 140.58E 35 4.7b,4.3b
BJI IV 11 10 19 05.0 37.10N 140.40E 48 5.1b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=11.9km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=31.5.
JMA Event type fe.
MOS Error ellipse: s-maj=9.9km s-min=6.3km az=104.9.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=7.3km az=126.0. Recorded [3 JMA] in Fukushima.
JMA IV 11 10 20 39.7 37.00N 140.74E 8–1 3.4 ¶600583459
JMA IV 11 10 22 20.0 37.04N 140.68E 10–1 3.2 ¶600583463
JMA IV 11 10 22 58.1 37.02N 140.62E 11–1 3.4 ¶600583466
ISC IV 11 10 25 05.4–.96 37.04N–.03 140.63E–.05 8–7 3.7b 38 0-147

IDC IV 11 10 25 03.9–.81 37.01N 140.70E 0 4.0,3.9 **¶602600753**
ISCJB IV 11 10 25 04.9–.51 37.02N–.03 140.79E–.05 19–3 3.9b,3.9
JMA IV 11 10 25 05.5 37.02N 140.70E 10–1 4.0,3.9
NEIC IV 11 10 25 11.4–1.1 36.95N 140.63E 58–10 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=16.3km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.3km az=17.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s118.00000° ,δ59.00000°,λ-69.00000°. NP2:ϕ_s261.00000°,δ37.00000°,λ-122.00000°. Principal axes: T Plg12.0000°,Azm193.0000°; N Plg18.0000°,Azm287.0000°; P Plg68.0000°,Azm72.0000°
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.2km az=98.0.
ISC IV 11 10 25 46.1–.85 37.01N–.03 140.67E–.03 5–5 4.3b 98 0-152
IDC IV 11 10 25 45.1–.51 37.04N 140.64E 0 4.3,4.2 **¶602553174**
ISCJB IV 11 10 25 46.3–.44 37.01N–.02 140.75E–.04 18–3 4.4s,4.2b
JMA IV 11 10 25 46.7 37.02N 140.65E 8–1 4.4,4.2b
MOS IV 11 10 25 47.1–1.4 37.02N 140.79E 25 4.4b,4.2b
BJI IV 11 10 25 51.0 37.10N 140.60E 30 4.5,4.5b
NEIC IV 11 10 25 52.0–1.1 37.04N 140.68E 51–9 4.5b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=29.9.
JMA Event type fe.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=93.4.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=7.7km az=127.0. Recorded [3 JMA] in Fukushima.
JMA IV 11 10 27 09.8 37.02N 140.68E 11–1 2.8 ¶600583473
JMA IV 11 10 27 29.7 37.03N 140.67E 10–1 3.2 ¶600583476
JMA IV 11 10 33 51.5 37.03N 140.68E 9–1 2.7 ¶17200588
JMA IV 11 10 42 03.6 37.02N 140.61E 11–1 3.5 ¶600583506
JMA IV 11 10 44 05.8 37.02N 140.65E 10–1 2.9 ¶17200589
ISC IV 11 10 46 55.5–1.0 37.01N–.04 140.71E–.07 9–8 3.6b 14 0-61
ISCJB IV 11 10 46 54.4–.92 36.98N–.04 140.85E–.10 15–6 3.6b **¶17200590**
IDC IV 11 10 46 54.2–2.1 36.91N 140.81E 0 3.7,3.6b
JMA IV 11 10 46 55.4 37.02N 140.70E 10–1 3.3,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=6.7km az=13.7.
IDC Error ellipse: s-maj=43.3km s-min=26.5km az=47.0.
ISC IV 11 10 50 22.4–1.0 37.02N–.03 140.72E–.06 7–7 3.7b 22 0-64
ISCJB IV 11 10 50 21.5–.76 37.00N–.04 140.85E–.08 14–4 3.6b **¶600583517**
IDC IV 11 10 50 21.1–.91 37.01N 140.70E 0 3.8,3.7b
JMA IV 11 10 50 22.2 37.01N 140.73E 8–1 3.6,3.7b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.0km az=7.9.
IDC Error ellipse: s-maj=22.2km s-min=19.2km az=94.0.
JMA Event type fe.
JMA IV 11 10 51 48.5 37.01N 140.69E 9–1 2.8 ¶600583525
JMA IV 11 10 55 06.9 37.00N 140.71E 10–1 2.7 ¶600583543
JMA IV 11 10 56 49.0 37.03N 140.67E 9–1 2.5 ¶600583544
ISC IV 11 10 59 10.2–1.0 37.06N–.04 140.69E–.05 6–7 4.0b 49 0-147
IDC IV 11 10 59 09.1–.56 37.02N 140.66E 0 4.2,4.1 **¶602553145**
JMA IV 11 10 59 10.2 37.07N 140.70E 6–2 4.5,4.1
NEIC IV 11 10 59 15.1–.76 37.00N 140.69E 42–7 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.2km az=113.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=118.0. Recorded [3 JMA] in Fukushima and Ibaraki.
ISC IV 11 11 00 25.5–.43 37.02N–.03 140.72E–.04 23–2 4.1b 69 0-147
ISCJB IV 11 11 00 23.4–.47 37.00N–.03 140.76E–.05 19–3 4.1b **¶602553147**
JMA IV 11 11 00 24.0 37.02N 140.70E 11–1 4.2
IDC IV 11 11 00 27.6–.47 36.99N 140.60E 34–3 4.1,4.1
NEIC IV 11 11 00 27.3–.28 36.94N 140.64E 35 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.1km az=17.0.
IDC Error ellipse: s-maj=13.8km s-min=11.7km az=80.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.8km az=106.0.
JMA IV 11 11 00 34.2 37.02N 140.70E 11–1 4.4 ¶602553151
JMA Event type fe.
JMA IV 11 11 07 20.4 37.01N 140.67E 7–2 2.9 ¶17200596
JMA IV 11 11 10 59.3 37.03N 140.63E 9–2 3.1 ¶600583550
JMA IV 11 11 14 59.2 37.02N 140.62E 11–1 2.8 ¶600583555
JMA IV 11 11 17 13.3 37.03N 140.62E 10–1 2.9 ¶600583559
JMA IV 11 11 24 30.4 37.06N 140.72E 6–1 3.0 ¶602553156
JMA Event type fe.
JMA IV 11 11 26 01.0 37.04N 140.67E 13–1 2.7 ¶602553168
ISC IV 11 11 27 29.0–.66 37.05N–.03 140.70E–.04 7–4 4.7b,4.3s 288 0-147
IDC IV 11 11 27 28.0–.47 37.04N 140.64E 0 4.6,4.5 **¶602553073**
JMA IV 11 11 27 29.8 37.04N 140.68E 11–1 4.6,4.5
ISCJB IV 11 11 27 29.6–.41 37.05N–.02 140.63E–.03 16–2 4.6b,4.3s
BJI IV 11 11 27 29.8 36.91N 140.70E 22 5.0b,4.6b
MOS IV 11 11 27 32.0–.83 37.36N 140.48E 26 4.8b,4.6b
NEIC IV 11 11 27 34.0–.50 37.08N 140.53E 36–4 4.7b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.7km az=128.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s144.00000°,δ70.00000°,λ-93.00000°. NP2:ϕ_s332.00000°,δ20.00000°,λ-82.00000°. Principal axes: T Plg25.0000°,Azm236.0000°; N Plg3.0000°,Azm145.0000°; P Plg65.0000° ,Azm49.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=139.4.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=86.1.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=141.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
JMA IV 11 11 32 05.4 37.02N 140.61E 9–1 2.6 ¶600583575
JMA IV 11 11 37 55.3 37.05N 140.76E 10–1 2.5 ¶600583584
JMA IV 11 11 38 49.8 37.01N 140.74E 9–1 3.2 ¶600583587
JMA IV 11 11 41 55.1 37.08N 140.67E 6–2 2.2 ¶602553165
ISC IV 11 11 42 35.7–.40 37.01N–.02 140.52E–.03 16–2 5.7b,5.0s 1817 0-165
NIED IV 11 11 42 00 36.90N 140.60E 8 5.5W,5.0s **¶602553182**
ISCJB IV 11 11 42 32.9–.45 37.00N–.01 140.42E–.02 5–2 5.6b,5.0s
BJI IV 11 11 42 33.9 37.00N 140.50E 14 5.4b,5.4s
GCMT IV 11 11 42 35.1–.20 37.01N 140.53E 12–0 5.5W,5.4s
NEIC IV 11 11 42 35.1–.07 36.98N 140.36E 10 5.6b,5.5W
JMA IV 11 11 42 35.1 36.97N 140.63E 11–1 5.9,5.5W
IDC IV 11 11 42 37.7–1.3 36.98N 140.48E 28–8 5.4,5.3
MOS IV 11 11 42 38.6–.87 37.27N 140.39E 36 5.8b,5.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ28.00000°,λ-86.00000°. NP2:ϕ_s264.00000°,δ62.00000°,λ-92.00000°. $M_0$1.72000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=148.5.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s64,c94; s116,c230;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.86±.06 $M_{\theta\theta}$1.95±.04; $M_{\phi\phi}$-0.09±.04; $M_{r\theta}$0.45±.09; $M_{\theta\phi}$0.01±.03; $M_{\phi r}$0.96±.13; Best double couple: NP1: ϕ_s247.00000°,δ56.00000°,λ-117.00000°. NP2:ϕ_s110.00000°,δ42.00000°,λ-55.00000°. Principal axes: T 2.0100,Plg8.0000°,Azm356.0000°; N 0.3070,Plg23.0000°,Azm263.0000° ; P -2.3220,Plg66.0000°,Azm104.0000° $M_0$2.16600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=137.0. Felt at Ebina, Mishima, Shibukawa, Tokyo, Tsukuba, Yashio and Yokosuka. Recorded [5L JMA] in Fukushima. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.01 $M_{\theta\theta}$1.75 $M_{\phi\phi}$0.27 $M_{r\theta}$0.66 $M_{\theta\phi}$0.02 $M_{\phi r}$0.39 Best double couple: NP1:ϕ_s260.00000°,δ56.00000°,λ-100.00000°. NP2:ϕ_s97.00000°,δ36.00000°,λ-76.00000°. Principal axes: T 1.8700,Plg10.0000° ,Azm357.0000°; N 0.3200,Plg8.0000°,Azm265.0000°; P -2.1900,Plg77.0000°,Azm137.0000° $M_0$2.00000×10^{17}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s260.00000° ,δ67.00000°,λ-79.00000°. NP2:ϕ_s54.00000°,δ25.00000°,λ-115.00000°. Principal axes: T Plg21.0000°,Azm342.0000°; N Plg10.0000°,Azm76.0000°; P Plg66.0000°,Azm190.0000°
IDC Error ellipse: s-maj=10.1km s-min=7.1km az=77.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=108.6.
JMA IV 11 11 56 02.8 37.00N 140.68E 7–1 2.7 ¶600583609
ISC IV 11 12 10 00.4–1.1 37.03N–.04 140.83E–.07 9–6 3.5b 21 0-90
IDC IV 11 12 09 58.4–1.2 37.05N 140.98E 0 3.6,3.5 **¶17200605**
ISCJB IV 11 12 09 59.1–.85 37.01N–.03 140.95E–.07 11–4 3.4b,3.5
JMA IV 11 12 10 00.6 37.03N 140.79E 7–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=20.4km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.9km az=7.3.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s55.00000° ,δ47.00000°,λ-85.00000°. NP2:ϕ_s227.00000°,δ43.00000°,λ-95.00000°. Principal axes: T Plg2.0000°,Azm141.0000°; N Plg4.0000°,Azm231.0000°; P Plg86.0000°,Azm28.0000°
JMA IV 11 12 13 22.8 37.01N 140.70E 10–1 3.2 ¶600583651
ISC IV 11 12 15 32.1–.99 37.04N–.03 140.68E–.04 6–8 3.6b 28 0-61
ISCJB IV 11 12 15 31.3–.55 37.03N–.03 140.79E–.05 13–3 3.7b **¶17200607**
JMA IV 11 12 15 31.9 37.04N 140.70E 8–1 3.6
IDC IV 11 12 15 38.0–2.8 36.97N 140.56E 53–27 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.1km az=12.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s255.00000°,δ53.00000°,λ-75.00000°. NP2:ϕ_s50.00000°,δ39.00000°,λ-109.00000°. Principal axes: T Plg7.0000°,Azm334.0000°; N Plg12.0000°,Azm65.0000°; P Plg76.0000° ,Azm214.0000°
IDC Error ellipse: s-maj=28.3km s-min=14.7km az=81.0.
JMA IV 11 12 23 09.6 37.02N 140.63E 10–1 2.7 ¶600583667
ISC IV 11 12 37 15.6–.85 37.04N–.03 140.72E–.06 12–6 3.6b 28 0-91
IDC IV 11 12 37 13.4–.91 37.10N 140.96E 0 3.8,3.8 **¶600583687**
ISCJB IV 11 12 37 15.1–.56 37.03N–.03 140.83E–.06 18–4 3.8s,3.7b
JMA IV 11 12 37 16.0 37.04N 140.71E 8–1 3.6,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=17.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.4km az=14.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s259.00000°,δ52.00000°,λ-83.00000°. NP2:ϕ_s67.00000°,δ38.00000°,λ-99.00000°. Principal axes: T Plg7.0000°,Azm344.0000°; N Plg6.0000°,Azm75.0000°; P Plg81.0000° ,Azm205.0000°
JMA IV 11 12 39 11.2 37.02N 140.67E 10–1 2.7 ¶600583689
JMA IV 11 12 43 09.2 37.06N 140.66E 8–1 2.5 ¶600583694
ISC IV 11 12 45 37.7–.94 37.05N–.03 140.65E–.03 12–7 25 0-61
ISCJB IV 11 12 45 37.8–.50 37.03N–.03 140.71E–.05 17–5 3.5b,3.4s **¶17200618**
IDC IV 11 12 45 37.8–2.6 36.87N 140.71E 0 3.8,3.7L
JMA IV 11 12 45 38.1 37.04N 140.61E 7–2 3.4,3.7L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.6km az=9.5.
IDC Error ellipse: s-maj=40.2km s-min=26.4km az=44.0.
JMA Event type fe.
JMA IV 11 12 49 58.2 37.01N 140.61E 10–1 2.7 ¶600583699
ISC IV 11 13 04 37.3–.97 37.02N–.04 140.66E–.05 14–7 3.4b 21 0-74
IDC IV 11 13 04 34.6–1.7 36.99N 140.76E 0 3.6,3.5 **¶602553074**
ISCJB IV 11 13 04 36.5–.72 36.97N–.04 140.76E–.07 19–5 3.5s,3.4b
JMA IV 11 13 04 37.1 37.03N 140.62E 9–2 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=24.1km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.2km az=24.2.
ISC IV 11 13 05 40.6–.78 37.03N–.03 140.64E–.04 16–4 4.8b,4.0s 340 0-147
NIED IV 11 13 05 00 37.00N 140.80E 5 4.4W,4.0s **¶16706464**
ISCJB IV 11 13 05 38.8–.52 37.05N–.02 140.52E–.03 11–3 4.7b,4.0s
BJI IV 11 13 05 39.9 36.78N 140.56E 26 4.9b,4.6b
MOS IV 11 13 05 40.9–1.0 37.09N 140.57E 26 4.9b,4.6b
JMA IV 11 13 05 40.2 37.02N 140.69E 11–1 4.7,4.6b
NEIC IV 11 13 05 44.7–.50 37.07N 140.49E 42–4 4.8b,4.6b
IDC IV 11 13 05 45.6–2.0 37.07N 140.51E 51–17 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ43.00000°,λ-113.00000°. NP2:ϕ_s75.00000°,δ51.00000°,λ-70.00000°. $M_0$3.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=137.9.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=100.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s86.00000°,δ55.00000°,λ-63.00000°. NP2:ϕ_s224.00000°,δ43.00000°,λ-123.00000°. Principal axes: T Plg6.0000°,Azm157.0000°; N Plg22.0000°,Azm249.0000°; P Plg67.0000° ,Azm52.0000°
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=136.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=115.0.
JMA IV 11 13 09 33.3 37.06N 140.29E 8–2 3.0 ¶600583713
ISC IV 11 13 14 35.2–.99 37.04N–.03 140.69E–.06 7–7 3.5b 21 0-69
ISCJB IV 11 13 14 34.5–.57 37.02N–.03 140.71E–.09 13–5 3.5b **¶17200623**
JMA IV 11 13 14 34.8 37.04N 140.68E 9–1 3.3
IDC IV 11 13 14 34.4–1.0 36.99N 140.62E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=4.6km az=16.3.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s111.00000° ,δ60.00000°,λ-81.00000°. NP2:ϕ_s273.00000°,δ31.00000°,λ-106.00000°. Principal axes: T Plg15.0000°,Azm194.0000°; N Plg8.0000°,Azm286.0000°; P Plg73.0000°,Azm43.0000°
IDC Error ellipse: s-maj=22.1km s-min=16.1km az=159.0.
JMA IV 11 13 16 38.6 37.01N 140.69E 14–1 3.2 ¶600583718
JMA IV 11 13 16 53.9 37.03N 140.67E 9–1 2.9 ¶600583721
JMA IV 11 13 28 07.1 37.01N 140.80E 9–1 2.8 ¶600583728
JMA IV 11 13 28 29.0 37.03N 140.68E 10–1 2.9 ¶600583731
JMA IV 11 13 35 29.4 37.04N 140.63E 9–1 2.9 ¶600583735
JMA IV 11 13 45 38.7 37.01N 140.75E 8–1 3.1 ¶602553076
ISC IV 11 13 46 07.2–1.0 36.73N–.04 138.70E–.04 7–8 3.6b,3.1s 27 0-77
NIED IV 11 13 46 00 36.80N 138.60E 5 4.0W,3.1s **¶602553105**
IDC IV 11 13 46 05.8–.85 36.61N 138.77E 0 3.8,3.7
ISCJB IV 11 13 46 06.7–.49 36.81N–.03 138.58E–.04 10–4 3.5b,3.1s
JMA IV 11 13 46 06.7 36.83N 138.58E 0 3.8,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ71.00000°,λ-178.00000°. NP2:ϕ_s18.00000°,δ88.00000°,λ-19.00000°. $M_0$9.62000×10^{14}
IDC Error ellipse: s-maj=20.8km s-min=7.6km az=161.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=39.8.
JMA Event type fe.
ISC IV 11 13 48 38.6–1.1 37.00N–.04 140.73E–.06 12–7 20 0-61
IDC IV 11 13 48 37.6–4.4 36.95N 140.82E 0 4.0,3.8b **¶17200626**

ISCJB IV 11 13 48 38.2–.91 36.97N–.04 140.84E–.08 14–4 3.9b,3.8b
JMA IV 11 13 48 39.0 37.02N 140.68E 11–1 3.4,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=88.1km s-min=31.5km az=16.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.9km az=20.5.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s67.00000° ,δ54.00000°,λ-91.00000°. NP2:ϕ_s249.00000°,δ36.00000°,λ-88.00000°. Principal axes: T Plg9.0000°,Azm158.0000°; N Plg1.0000°,Azm68.0000°; P Plg81.0000°,Azm332.0000°
ISC IV 11 13 58 46.9–.92 37.07N–.03 140.72E–.06 12–7 16 0-61
ISCJB IV 11 13 58 46.6–.63 37.03N–.04 140.78E–.09 15–5 3.4b **¶600583754**
IDC IV 11 13 58 46.6–2.6 36.84N 140.64E 0 3.7,3.4
JMA IV 11 13 58 47.0 37.07N 140.67E 8–1 3.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=5.0km az=20.4.
IDC Error ellipse: s-maj=44.3km s-min=18.4km az=9.0.
ISC IV 11 14 08 48.1–.91 37.01N–.03 140.67E–.04 9–6 4.1b,4.0s 73 0-147
NIED IV 11 14 08 00 37.00N 140.70E 5 4.0W,4.0s **¶17200629**
IDC IV 11 14 08 46.7–.58 37.02N 140.61E 0 4.2,4.0
ISCJB IV 11 14 08 47.8–.44 37.02N–.02 140.72E–.04 19–3 4.2b,3.9s
JMA IV 11 14 08 48.2 37.02N 140.68E 9–1 4.3,3.9s
NEIC IV 11 14 08 50.8–1.9 36.95N 140.64E 28–14 4.4b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ36.00000°,λ-96.00000°. NP2:ϕ_s225.00000°,δ55.00000°,λ-86.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=11.5km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=17.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ46.00000°,λ-82.00000°. NP2:ϕ_s221.00000°,δ44.00000°,λ-99.00000°. Principal axes: T Plg1.0000°,Azm137.0000°; N Plg6.0000°,Azm227.0000°; P Plg84.0000° ,Azm41.0000°
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=107.0.
ISC IV 11 14 19 16.6–.94 37.03N–.03 140.63E–.04 16–7 3.5b 20 0-69
ISCJB IV 11 14 19 16.3–.59 37.01N–.03 140.70E–.06 24–4 3.5b **¶17200632**
JMA IV 11 14 19 17.2 37.02N 140.62E 10–1 3.7
IDC IV 11 14 19 22.9–2.7 36.71N 140.62E 87–29 3.7,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.6km az=10.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s122.00000°,δ53.00000°,λ-85.00000°. NP2:ϕ_s293.00000°,δ37.00000°,λ-97.00000°. Principal axes: T Plg8.0000°,Azm208.0000°; N Plg4.0000°,Azm299.0000°; P Plg81.0000° ,Azm55.0000°
IDC Error ellipse: s-maj=36.5km s-min=22.7km az=23.0.
JMA IV 11 14 23 45.9 37.01N 140.61E 10–1 2.7
¶600583786
JMA IV 11 14 26 03.3 37.09N 140.65E 16–1 3.7
¶602553112
JMA Event type fe.
JMA IV 11 14 27 03.9 37.02N 140.69E 8–1 2.5
¶600583790
ISC IV 11 14 54 16.3–1.1 37.04N–.04 140.74E–.09 15–8 11 0-61
ISCJB IV 11 14 54 14.2–1.5 37.05N–.06 141.0E–.10 18–7 3.6b **¶600583830**
IDC IV 11 14 54 15.9–3.7 36.72N 140.73E 0 3.6,3.5b
JMA IV 11 14 54 16.6 37.04N 140.69E 10–1 3.0,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=9.9km az=171.7.
IDC Error ellipse: s-maj=74.2km s-min=18.4km az=11.0.
ISC IV 11 14 56 28.4–1.1 37.08N–.04 140.65E–.06 6–11 11 0-61
ISCJB IV 11 14 56 27.1–1.2 37.10N–.06 140.8E–.10 17–5 3.4b **¶17200638**
JMA IV 11 14 56 27.9 37.09N 140.66E 9–1 3.0
IDC IV 11 14 56 29.0–2.5 36.83N 140.67E 0 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=8.8km az=164.6.
IDC Error ellipse: s-maj=42.2km s-min=18.6km az=10.0.
JMA IV 11 14 57 55.6 37.05N 140.73E 9–1 2.9
¶600583834
ISC IV 11 15 00 14.6–.99 37.02N–.04 140.69E–.07 11–8 3.5b 13 0-61
IDC IV 11 15 00 12.7–2.3 37.03N 140.89E 0 3.4,3.2 **¶600583839**
ISCJB IV 11 15 00 13.6–1.0 36.99N–.04 140.9E–.10 17–6 3.3b,3.2
JMA IV 11 15 00 14.8 37.02N 140.67E 9–1 3.1,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=46.9km s-min=29.5km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=6.8km az=10.0.
JMA IV 11 15 01 20.2 37.04N 140.74E 8–1 2.6
¶600583848
JMA IV 11 15 06 16.4 37.04N 140.66E 10–1 3.1
¶600583867
JMA IV 11 15 24 23.6 37.10N 140.61E 13–1 3.7
¶600583889
JMA Event type fe.
JMA IV 11 15 25 00.3 37.01N 140.70E 8–1 3.6
¶600583892
JMA Event type fe.
ISC IV 11 15 26 29.5–.94 37.01N–.03 140.68E–.04 10–6 3.7b 35 0-147
NIED IV 11 15 26 00 37.00N 140.70E 5 3.7W **¶17200642**
IDC IV 11 15 26 28.2–.65 37.04N 140.64E 0 4.0,3.8
ISCJB IV 11 15 26 29.1–.56 37.00N–.03 140.77E–.05 17–4 3.7b,3.8
JMA IV 11 15 26 29.5 37.01N 140.68E 8–1 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ37.00000°,λ-75.00000°. NP2:ϕ_s36.00000°,δ54.00000°,λ-101.00000°. $M_0$4.15000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=15.7km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.7km az=19.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ54.00000°,λ-84.00000°. NP2:ϕ_s245.00000°,δ36.00000°,λ-98.00000°. Principal axes: T Plg9.0000°,Azm161.0000°; N Plg5.0000°,Azm252.0000°; P Plg80.0000° ,Azm10.0000°
JMA IV 11 15 30 37.0 37.03N 140.61E 11–1 2.7
¶600583894
ISC IV 11 15 38 55.3–.95 37.01N–.04 140.69E–.04 12–7 3.3b 22 0-61
IDC IV 11 15 38 53.9–1.1 37.06N 140.65E 0 3.6,3.4 **¶17200644**
ISCJB IV 11 15 38 54.9–.68 36.99N–.04 140.79E–.06 17–5 3.4b,3.4
JMA IV 11 15 38 55.6 37.01N 140.69E 8–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=23.1km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.1km az=19.0.
JMA Event type fe.
ISC IV 11 15 41 19.7–.94 37.02N–.03 140.69E–.06 12–8 3.3b 21 0-61
IDC IV 11 15 41 17.2–2.3 37.12N 140.81E 0 3.4,3.2 **¶17200645**
ISCJB IV 11 15 41 19.2–.73 37.01N–.03 140.80E–.06 18–5 3.2b,3.2
JMA IV 11 15 41 20.0 37.02N 140.69E 9–1 3.4,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=30.0km az=33.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.3km az=9.6.
JMA Event type fe.
JMA IV 11 15 48 19.5–.10 37.08N 140.87E 7–1 2.8
¶600583908
JMA Event type fe.
ISC IV 11 15 55 12.8–.86 37.01N–.03 140.68E–.05 12–5 3.8b 55 0-147
NIED IV 11 15 55 00 37.00N 140.70E 8 3.8W **¶16525108**
IDC IV 11 15 55 11.0–.56 37.04N 140.70E 0 4.0,3.9
ISCJB IV 11 15 55 12.1–.54 36.99N–.03 140.84E–.05 19–3 3.9b,3.9
JMA IV 11 15 55 13.0 37.00N 140.72E 11–1 4.1,3.9
NEIC IV 11 15 55 17.2–.75 36.97N 140.71E 47–7 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ42.00000°,λ-106.00000°. NP2:ϕ_s142.00000°,δ50.00000°,λ-76.00000°. $M_0$5.45000×10^{14}
IDC Error ellipse: s-maj=16.5km s-min=13.4km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=16.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s133.00000°,δ50.00000°,λ-74.00000°. NP2:ϕ_s289.00000°,δ42.00000°,λ-108.00000°. Principal axes: T Plg4.0000°,Azm212.0000°; N Plg12.0000°,Azm303.0000°; P Plg77.0000° ,Azm103.0000°
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.4km az=113.0.
ISC IV 11 15 57 57.0–.55 37.05N–.03 140.59E–.03 16–3 4.9b,4.2s 508 0-153
NIED IV 11 15 57 00 37.10N 140.70E 5 4.7W,4.2s **¶16417151**
ISCJB IV 11 15 57 55.3–.59 37.05N–.02 140.44E–.03 10–3 4.8b,4.2s
JMA IV 11 15 57 55.8 37.06N 140.65E 11–1 5.0,4.2s
IDC IV 11 15 57 57.6–3.0 37.08N 140.55E 16–18 4.6,4.6
MOS IV 11 15 57 58.7–.95 37.08N 140.38E 33 5.0b,4.6
BJI IV 11 15 57 59.4 37.10N 140.40E 43 4.9b,4.7b
NEIC IV 11 15 58 01.7–.53 37.06N 140.38E 46–5 4.9b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ37.00000°,λ-79.00000°. NP2:ϕ_s180.00000°,δ54.00000°,λ-98.00000°. $M_0$1.48000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.0km az=31.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s213.00000°,δ46.00000°,λ-97.00000°. NP2:ϕ_s43.00000°,δ44.00000°,λ-83.00000°. Principal axes: T Plg1.0000°,Azm308.0000°; N Plg5.0000°,Azm218.0000°; P Plg85.0000° ,Azm49.0000°
IDC Error ellipse: s-maj=12.5km s-min=9.5km az=98.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=105.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=130.0. Recorded [4 JMA] in Fukushima.
JMA IV 11 16 02 49.5 37.10N 140.59E 15–1 3.3
¶600583914
JMA Event type fe.
ISC IV 11 16 13 15.6–1.0 37.08N–.03 140.68E–.05 11–7 3.6b 19 0-68
NIED IV 11 16 13 00 37.10N 140.60E 5 3.7W **¶17200649**
IDC IV 11 16 13 13.7–1.1 37.09N 140.74E 0 3.9,3.7
ISCJB IV 11 16 13 15.1–.67 37.07N–.03 140.72E–.06 20–5 3.6b,3.7
JMA IV 11 16 13 15.5 37.07N 140.65E 7–1 3.4,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ27.00000°,λ96.00000°. NP2:ϕ_s167.00000°,δ63.00000°,λ87.00000°. $M_0$3.64000×10^{14}
IDC Error ellipse: s-maj=30.5km s-min=22.3km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.5km az=2.9.
ISC IV 11 16 13 43.7–1.1 37.12N–.09 140.7E–.10 14–9 3.4b 11 0-61
ISCJB IV 11 16 13 41.9–1.4 37.17N–.07 140.9E–.10 22–7 3.6b **¶17200652**
IDC IV 11 16 13 41.2–1.6 37.15N 140.80E 0 3.8,3.7b
JMA IV 11 16 13 43.5 37.07N 140.65E 7–1 3.6,3.7b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=10.2km az=157.4.
IDC Error ellipse: s-maj=36.3km s-min=21.9km az=55.0.
JMA Event type fe.
ISC IV 11 16 23 50.4–2.7 37.05N–.10 140.8E–.10 0–22 3.6b 11 0-61
JMA IV 11 16 23 46.7 37.00N 140.67E 12–1 2.6 **¶602553131**
ISCJB IV 11 16 23 48.6–1.9 37.04N–.08 140.9E–.10 5–12 3.5b
IDC IV 11 16 23 49.3–2.3 37.07N 141.03E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=11.8km az=152.4.
IDC Error ellipse: s-maj=56.2km s-min=22.5km az=63.0.
JMA IV 11 16 40 01.6 37.00N 140.69E 5–1 2.7
¶600583961
ISC IV 11 16 49 17.6–1.1 37.10N–.04 140.55E–.05 8–7 4.2b,3.3s 103 0-152
NIED IV 11 16 49 00 37.10N 140.70E 5 4.1W,3.3s **¶602553103**
JMA IV 11 16 49 17.6 37.07N 140.61E 8–2 4.3,3.3s
ISCJB IV 11 16 49 17.3–.46 37.09N–.03 140.64E–.04 18–3 4.1b,3.5s
MOS IV 11 16 49 19.3–1.6 37.12N 140.72E 33 4.4b,3.5s
NEIC IV 11 16 49 22.7–.68 37.11N 140.44E 43–6 4.4b,3.5s
IDC IV 11 16 49 22.8–1.8 37.07N 140.40E 45–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ37.00000°,λ-90.00000°. NP2:ϕ_s248.00000°,δ53.00000°,λ-90.00000°. $M_0$1.63000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s272.00000°,δ49.00000°,λ-62.00000°. NP2:ϕ_s52.00000°,δ49.00000°,λ-118.00000°. Principal axes: T Plg0.0000°,Azm342.0000°; N Plg21.0000°,Azm72.0000°; P Plg69.0000° ,Azm252.0000°
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.5km az=34.6.
MOS Error ellipse: s-maj=9.6km s-min=7.2km az=79.8.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.5km az=121.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=10.7km az=86.0.
JMA IV 11 17 15 05.8 37.00N 140.62E 9–1 2.6
¶600584015
ISC IV 11 17 21 00.6–.39 37.05N–.05 140.60E–.05 10 4.4b,3.1s 113 0-147
ISCJB IV 11 17 20 59.0–.28 37.04N–.04 140.67E–.04 10 4.3b,3.2s **¶16436610**
NIED IV 11 17 21 00 37.00N 140.60E 5 4.1W,3.2s
JMA IV 11 17 21 00.5 37.00N 140.61E 9–1 4.3,3.2s
MOS IV 11 17 21 01.8–1.7 37.06N 140.64E 27 4.5b,3.2s
NEIC IV 11 17 21 05.8–1.0 37.00N 140.48E 48–8 4.5b,3.2s
BJI IV 11 17 21 06.0 37.10N 140.30E 44 4.8b,4.6s
IDC IV 11 17 21 06.0–2.0 36.94N 140.46E 51–18 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.7km az=141.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s274.00000°,δ43.00000°,λ-84.00000°. NP2:ϕ_s86.00000°,δ47.00000°,λ-95.00000°. $M_0$1.36000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s97.00000°,δ46.00000°,λ-97.00000°. NP2:ϕ_s287.00000°,δ44.00000°,λ-83.00000°. Principal axes: T Plg1.0000°,Azm192.0000°; N Plg5.0000°,Azm102.0000°; P Plg85.0000° ,Azm293.0000°
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=96.1.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=6.9km az=120.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=100.0.
JMA IV 11 18 01 14.6 37.02N 140.63E 9–1 2.7
¶600584040
JMA IV 11 18 05 09.0 37.03N 140.62E 8–1 2.5
¶600584044
ISC IV 11 18 15 16.5–.99 37.13N–.04 140.71E–.05 6–6 3.7b 29 0-147
NIED IV 11 18 15 00 37.10N 140.80E 5 3.9W **¶16418143**
ISCJB IV 11 18 15 14.9–.99 37.15N–.04 140.97E–.06 5–5 3.6b,3.6s
JMA IV 11 18 15 17.2 37.14N 140.79E 6–1 4.3,3.6s
IDC IV 11 18 15 21.9–2.4 37.16N 140.63E 42–24 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ49.00000°,λ-158.00000°. NP2:ϕ_s63.00000°,δ73.00000°,λ-43.00000°. $M_0$7.86000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=13.3.
JMA Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=13.3km az=78.0.
ISC IV 11 18 27 08.8–.47 37.07N–.04 140.63E–.05 10 4.0b 39 0-147
NIED IV 11 18 27 00 37.10N 140.70E 5 4.0W **¶16505340**
ISCJB IV 11 18 27 07.3–.35 37.08N–.03 140.64E–.05 10 4.0b
JMA IV 11 18 27 08.4 37.07N 140.65E 7–1 4.3
IDC IV 11 18 27 14.8–2.1 37.04N 140.39E 54–20 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ50.00000°,λ-127.00000°. NP2:ϕ_s221.00000°,δ52.00000°,λ-55.00000°. $M_0$1.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.3km az=0.8.
JMA Event type fe.
IDC Error ellipse: s-maj=16.4km s-min=10.9km az=77.0.
ISC IV 11 18 38 47.8–1.3 37.05N–.03 140.54E–.05 1–11 3.6b 24 0-61
IDC IV 11 18 38 44.6–2.5 37.23N 140.96E 0 3.7,3.7 **¶600584060**
ISCJB IV 11 18 38 47.8–.54 37.02N–.03 140.63E–.04 10–4 3.5b,3.7
JMA IV 11 18 38 48.0 37.01N 140.61E 9–1 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=53.4km s-min=26.7km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=7.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s34.00000°,δ63.00000°,λ-125.00000°. NP2:ϕ_s270.00000°,δ43.00000°,λ-42.00000°. Principal axes: T Plg11.0000°,Azm148.0000°; N Plg31.0000°,Azm51.0000°; P Plg57.0000° ,Azm256.0000°
ISC IV 11 18 46 01.1–.97 37.04N–.04 140.59E–.06 11–9 3.7b 20 0-68
IDC IV 11 18 45 59.1–1.4 37.05N 140.76E 0 3.7,3.5 **¶600584062**

ISCJB IV 11 18 46 00.9–.58 37.02N–.03 140.70E–.06 21–4 3.5b,3.5
JMA IV 11 18 46 01.5 37.03N 140.63E 10–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=25.5km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=9.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s315.00000°,λ47.00000°,λ-82.00000°. NP2:ϕ_s123.00000°,δ43.00000°,λ-98.00000°. Principal axes: T Plg2.0000°,Azm39.0000°; N Plg6.0000°,Azm129.0000°; P Plg84.0000° ,Azm292.0000°

JMA IV 11 18 50 05.5 37.01N 140.61E 10–1 3.1 ¶600584064

JMA Event type fe.

ISC IV 11 19 22 05.7–.94 37.03N–.04 140.67E–.08 12–8 3.5b 18 0-61
IDC IV 11 19 22 03.7–2.1 37.01N 140.85E 0 3.6,3.4b **¶17200670**
ISCJB IV 11 19 22 05.2–.78 37.01N–.03 140.81E–.08 19–5 3.3b,3.4b
JMA IV 11 19 22 06.0 37.02N 140.70E 11–1 3.0,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=43.7km s-min=26.8km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.4km az=6.3.
JMA Event type fe.

ISC IV 11 19 43 47.7–1.2 37.10N–.04 140.54E–.05 6–8 3.8b,3.6s 47 0-147
NIED IV 11 19 43 00 37.10N 140.70E 5 4.0W,3.6s **¶16418145**
ISCJB IV 11 19 43 47.8–.46 37.07N–.03 140.69E–.04 19–3 3.9b,3.5s
JMA IV 11 19 43 48.0 37.08N 140.61E 9–1 3.8,3.5s
IDC IV 11 19 43 54.1–2.7 37.06N 140.34E 51–24 4.0L,3.9
NEIC IV 11 19 43 55.2–1.2 37.08N 140.33E 60–11 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ23.00000°,λ-95.00000°. NP2:ϕ_s152.00000°,δ67.00000°,λ-88.00000°. $M_0$1.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s313.00000°,δ62.00000°,λ-91.00000°. NP2:ϕ_s135.00000°,δ28.00000°,λ-88.00000°. Principal axes: T Plg17.0000°,Azm44.0000°; N Plg1.0000°,Azm314.0000°; P Plg73.0000° ,Azm221.0000°
IDC Error ellipse: s-maj=18.1km s-min=15.1km az=66.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=10.2km az=75.0. Recorded [3 JMA] in Fukushima.

ISC IV 11 19 46 00.6–.95 37.02N–.04 140.62E–.07 11–9 3.6b 21 0-61
IDC IV 11 19 45 58.7–2.1 37.03N 140.81E 0 3.7,3.5 **¶17200673**
ISCJB IV 11 19 46 00.3–.65 37.00N–.03 140.75E–.06 17–5 3.5b,3.5
JMA IV 11 19 46 01.0 37.01N 140.64E 9–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=44.1km s-min=27.7km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=10.4.
JMA Event type fe.

JMA IV 11 19 49 55.4 37.04N 140.68E 10–2 2.6 ¶600584108

ISC IV 11 20 00 04.2–.90 37.06N–.03 140.68E–.04 10–6 3.5b 26 0-69
NIED IV 11 20 00 00 37.10N 140.70E 5 3.6W **¶600584118**
IDC IV 11 20 00 02.5–.95 37.05N 140.78E 0 3.8,3.6
ISCJB IV 11 20 00 03.5–.61 37.06N–.03 140.80E–.05 17–4 3.6b,3.6
JMA IV 11 20 00 04.2 37.07N 140.68E 10–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ16.00000°,λ-153.00000°. NP2:ϕ_s214.00000°,δ83.00000°,λ-76.00000°. $M_0$3.24000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=18.5km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=16.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ58.00000°,λ-91.00000°. NP2:ϕ_s28.00000°,δ32.00000°,λ-88.00000°. Principal axes: T Plg13.0000°,Azm297.0000°; N Plg1.0000°,Azm207.0000°; P Plg77.0000° ,Azm113.0000°

JMA IV 11 20 13 17.5 37.01N 140.67E 9–1 2.7 ¶600584129

JMA IV 11 20 30 08.7 37.02N 140.62E 9–1 3.4 ¶600584150

JMA Event type fe.

JMA IV 11 20 33 27.2 37.03N 140.67E 4 2.8 ¶600584154

ISC IV 11 20 42 59.9–1.0 37.01N–.03 140.63E–.05 9–7 3.5b 26 0-69
NIED IV 11 20 42 00 37.00N 140.60E 5 3.7W **¶600584160**
IDC IV 11 20 42 58.2–.90 37.00N 140.67E 0 3.8,3.7
ISCJB IV 11 20 42 59.2–.62 37.01N–.03 140.74E–.05 18–4 3.6b,3.7
JMA IV 11 20 42 59.7 37.02N 140.63E 8–2 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ36.00000°,λ-89.00000°. NP2:ϕ_s248.00000°,δ54.00000°,λ-90.00000°. $M_0$3.83000×10^{14}
IDC Error ellipse: s-maj=21.3km s-min=18.6km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=21.2.
JMA Event type fe.

ISC IV 11 20 46 41.6–.92 37.09N–.04 140.71E–.05 11–7 3.4b 19 0-57
IDC IV 11 20 46 39.8–1.9 37.07N 140.78E 0 3.6,3.4b **¶17200684**
JMA IV 11 20 46 41.8 37.10N 140.70E 9–1 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=29.1km az=55.0.
JMA Event type fe.

ISC IV 11 20 53 36.8–1.5 37.01N–.05 140.64E–.08 8–13 10 0-57
IDC IV 11 20 53 35.6–2.3 37.02N 140.79E 0 3.4,3.2b **¶17200686**
ISCJB IV 11 20 53 36.2–1.4 37.03N–.06 140.9E–.10 18–8 3.2b,3.2b
JMA IV 11 20 53 37.4 37.03N 140.67E 8–2 3.0,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=45.7km s-min=32.9km az=33.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=9.6km az=0.3.

ISC IV 11 21 01 28.2–1.1 37.10N–.05 140.61E–.05 6–10 3.3b 22 0-61
IDC IV 11 21 01 27.3–1.2 36.85N 140.71E 0 3.7,3.5b **¶600584174**
ISCJB IV 11 21 01 28.3–.56 37.07N–.03 140.69E–.06 11–5 3.4s,3.4b
JMA IV 11 21 01 28.5 37.08N 140.65E 7–1 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=24.1km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=9.6.
JMA Event type fe.

JMA IV 11 21 09 08.0 37.05N 140.62E 8–2 2.6 ¶600584180

ISC IV 11 21 18 21.6–.93 37.08N–.04 140.69E–.05 7–6 3.6b 31 0-78
NIED IV 11 21 18 00 37.10N 140.70E 5 3.8W **¶17200690**
IDC IV 11 21 18 20.0–.79 37.02N 140.82E 0 3.8,3.7
JMA IV 11 21 18 21.7 37.05N 140.74E 10–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ66.00000°,λ-173.00000°. NP2:ϕ_s93.00000°,δ84.00000°,λ-24.00000°. $M_0$5.23000×10^{14}
IDC Error ellipse: s-maj=20.9km s-min=17.7km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s89.00000°,δ71.00000°,λ-24.00000°. NP2:ϕ_s188.00000°,δ68.00000°,λ-159.00000°. Principal axes: T Plg2.0000°,Azm139.0000°; N Plg60.0000°,Azm232.0000°; P Plg30.0000° ,Azm48.0000°

ISC IV 11 22 03 17.7–.89 37.02N–.03 140.54E–.04 13–5 4.4b,3.2s 136 0-147
NIED IV 11 22 03 00 37.00N 140.70E 5 4.2W,3.2s **¶602553115**
BJI IV 11 22 03 17.8 36.81N 140.39E 29 4.7b,4.5b
ISCJB IV 11 22 03 17.1–.42 37.02N–.02 140.62E–.04 21–2 4.4b,3.4s
JMA IV 11 22 03 17.2 37.01N 140.61E 9–1 4.3,3.4s
MOS IV 11 22 03 18.4–1.0 36.99N 140.54E 31 4.5b,3.4s
NEIC IV 11 22 03 23.0–.69 36.98N 140.40E 54–6 4.5b,3.4s
IDC IV 11 22 03 23.1–1.6 36.99N 140.43E 54–15 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ31.00000°,λ-113.00000°. NP2:ϕ_s271.00000°,δ62.00000°,λ-77.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=14.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s283.00000°,δ67.00000°,λ-71.00000°. NP2:ϕ_s62.00000°,δ29.00000°,λ-128.00000°. Principal axes: T Plg20.0000°,Azm359.0000°; N Plg18.0000°,Azm96.0000°; P Plg63.0000° ,Azm224.0000°
MOS Error ellipse: s-maj=9.9km s-min=6.1km az=111.1.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=86.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.2km s-min=8.7km az=81.0.

ISC IV 11 22 15 12.5–.00 37.02N–.05 140.64E–.06 8–8 3.5b 20 0-91
NIED IV 11 22 15 00 37.00N 140.70E 5 3.4W **¶600584214**
IDC IV 11 22 15 11.2–.94 37.02N 140.72E 0 3.6,3.5
ISCJB IV 11 22 15 12.0–.69 37.00N–.03 140.79E–.06 15–5 3.4b,3.5
JMA IV 11 22 15 12.8 37.00N 140.69E 7–2 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ37.00000°,λ-80.00000°. NP2:ϕ_s225.00000°,δ54.00000°,λ-97.00000°. $M_0$1.39000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=21.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.6km az=10.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s51.00000°,δ62.00000°,λ-93.00000°. NP2:ϕ_s237.00000°,δ28.00000°,λ-84.00000°. Principal axes: T Plg17.0000°,Azm143.0000°; N Plg3.0000°,Azm52.0000°; P Plg73.0000° ,Azm313.0000°

JMA IV 11 22 16 27.4 37.03N 140.61E 9–1 3.5 ¶600584216

JMA Event type fe.

ISC IV 11 22 26 18.3–.32 36.82N–.02 138.55E–.02 10–1 5.4s,5.0b 885 0-158
NIED IV 11 22 26 00 36.80N 138.60E 8 5.4W,5.0b **¶16418156**
IDC IV 11 22 26 16.6–.39 36.88N 138.48E 0 5.1,5.1s
JMA IV 11 22 26 16.8 36.82N 138.61E 0 5.6,5.1s
ISCJB IV 11 22 26 17.4–.44 36.87N–.02 138.41E–.02 8–2 5.4s,4.9b
BJI IV 11 22 26 18.7 36.90N 138.30E 6 5.5s,5.3
MOS IV 11 22 26 19.3–1.1 36.79N 138.33E 25 5.4s,5.1b
GCMT IV 11 22 26 20.0–.10 36.74N 138.56E 12 5.5W,5.1b
NEIC IV 11 22 26 20.0–.93 36.81N 138.28E 17–5 5.1b,5.1b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ85.00000°,λ-2.00000°. NP2:ϕ_s105.00000°,δ88.00000°,λ-175.00000°. $M_0$1.42000×10^{17}
IDC Error ellipse: s-maj=13.7km s-min=5.7km az=111.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s109.00000° ,δ89.00000°,λ-176.00000°. NP2:ϕ_s19.00000°,δ86.00000°,λ-1.00000°. Principal axes: T Plg2.0000°,Azm244.0000°; N Plg86.0000°,Azm127.0000°; P Plg4.0000°,Azm334.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=152.8.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=96.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s98,c175; s126,c246; Duration: 1$\hat{}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.42±.02 $M_{\theta\theta}$-0.71±.02; $M_{\phi\phi}$1.14±.02; $M_{r\theta}$-0.60±.05; $M_{\theta\phi}$-1.46±.02; $M_{\phi r}$-0.07±.05; Best double couple: NP1:ϕ_s109.00000° ,δ78.00000°,λ-159.00000°. NP2:ϕ_s14.00000°,δ70.00000°,λ-13.00000°. Principal axes: T 1.9650,Plg6.0000°,Azm240.0000°; N -0.2110,Plg66.0000°,Azm137.0000° ; P -1.7520,Plg23.0000°,Azm333.0000° $M_0$1.85900×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=147.0. Felt at Nakano. Recorded [5L JMA] in Nagano.

JMA IV 11 22 27 28.9 36.84N 138.59E 5–3 3.8 ¶600584229

JMA Event type fe.

JMA IV 11 22 28 33.0 36.84N 138.56E 5–2 3.6 ¶600584235

JMA Event type fe.

ISC IV 11 22 32 52.2–1.1 36.82N–.03 138.57E–.03 8–7 4.4b 58 0-149
NIED IV 11 22 32 00 36.80N 138.60E 5 4.6W **¶16505341**
ISCJB IV 11 22 32 51.1–.47 36.83N–.02 138.55E–.03 10–3 4.1b
JMA IV 11 22 32 51.4 36.83N 138.58E 0 4.7
IDC IV 11 22 32 51.1–.54 36.86N 138.53E 0 4.3,4.2
NEIC IV 11 22 32 55.9–.29 36.72N 138.49E 35 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ61.00000°,λ-170.00000°. NP2:ϕ_s199.00000°,δ81.00000°,λ-30.00000°. $M_0$8.78000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=38.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s26.00000°,δ80.00000°,λ20.00000°. NP2:ϕ_s293.00000°,δ70.00000°,λ170.00000°. Principal axes: T Plg21.0000°,Azm251.0000°; N Plg68.0000°,Azm51.0000°; P Plg7.0000° ,Azm158.0000°
IDC Error ellipse: s-maj=16.8km s-min=6.2km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=6.4km az=131.0. Recorded [3 JMA] in Gumma, Nagano and Niigata.

JMA IV 11 22 34 50.8 37.00N 140.68E 12–1 2.6 ¶600584248

JMA IV 11 23 08 01.8 37.04N 140.71E 7–1 2.6 ¶602597386

ISC IV 11 23 22 33.8–1.1 37.01N–.04 140.62E–.04 8–7 3.8b 33 0-147
IDC IV 11 23 22 32.7–.71 37.00N 140.67E 0 4.2,3.9 **¶16587470**
ISCJB IV 11 23 22 34.0–.60 37.01N–.04 140.77E–.05 20–3 3.9b,3.9
JMA IV 11 23 22 34.8 37.03N 140.69E 11–1 3.9,3.9
NEIC IV 11 23 22 37.8–.43 36.95N 140.55E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=13.2km az=161.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=26.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s38.00000°,δ48.00000°,λ-98.00000°. NP2:ϕ_s231.00000°,δ42.00000°,λ-81.00000°. Principal axes: T Plg3.0000°,Azm134.0000°; N Plg6.0000°,Azm44.0000°; P Plg83.0000° ,Azm250.0000°
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.7km az=162.0.

ISC IV 11 23 24 22.1–1.1 36.80N–.03 138.60E–.03 6–8 3.9b 39 0-92
IDC IV 11 23 24 20.6–.82 36.70N 138.72E 0 4.1,3.9 **¶16418160**
ISCJB IV 11 23 24 21.1–.49 36.81N–.03 138.59E–.03 8–4 3.8b,3.9
JMA IV 11 23 24 21.2 36.82N 138.61E 0 3.9,3.9
NEIC IV 11 23 24 25.4–.63 36.58N 138.48E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.8km s-min=6.9km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=135.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ89.00000°,λ25.00000°. NP2:ϕ_s283.00000°,δ65.00000°,λ179.00000°. Principal axes: T Plg18.0000°,Azm241.0000°; N Plg65.0000°,Azm15.0000°; P Plg17.0000° ,Azm145.0000°
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=13.6km az=145.0.

ISC IV 11 23 29 51.9–.94 37.03N–.04 140.69E–.06 10–7 3.6b 18 0-61
IDC IV 11 23 29 48.8–1.9 37.07N 141.18E 0 3.8,3.6 **¶600584315**
ISCJB IV 11 23 29 51.5–2.3 36.99N–.04 140.90E–.09 15–16 3.6b,3.6
JMA IV 11 23 29 51.9 37.04N 140.69E 11–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=22.1km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.6km az=10.1.
JMA Event type fe.

ISC IV 11 23 48 14.1–.98 37.00N–.03 140.61E–.03 8–6 4.6b 165 0-153
JMA IV 11 23 48 14.7 37.03N 140.69E 11–1 4.7 **¶16418162**
ISCJB IV 11 23 48 14.3–.42 37.01N–.02 140.71E–.04 22–2 5.3s,4.5b
BJI IV 11 23 48 17.0 37.20N 140.40E 10 5.4b,5.1s
MOS IV 11 23 48 17.1–1.2 36.98N 140.68E 44 4.7b,5.1s
NEIC IV 11 23 48 19.3–1.0 37.00N 140.52E 47–8 4.8b,5.1s
IDC IV 11 23 48 20.7–1.6 36.98N 140.63E 59–14 4.5,4.3
ISC Event type se.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s74.00000°,δ50.00000°,λ-100.00000°. NP2:ϕ_s269.00000°,δ41.00000°,λ-78.00000°. Principal axes: T Plg5.0000°,Azm171.0000°; N Plg8.0000°,Azm80.0000°; P Plg81.0000° ,Azm293.0000°
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=24.4.
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=110.9.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.9km az=92.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=77.0.

JMA IV 11 23 55 12.2 37.08N 140.67E 8–2 2.7 ¶600584362

JMA IV 12 00 07 17.9 37.00N 140.67E 9–1 3.5 ¶600584375

JMA Event type fe.

ISC IV 12 00 09 28.4–.98 37.07N–.03 140.59E–.04 7–6 4.3b 106 0-152

BJI IV 12 00 09 24.4 36.25N 140.75E 20 4.6s,4.5 ¶16418163
JMA IV 12 00 09 28.8 37.03N 140.69E 11–1 4.2,4.5
ISCJB IV 12 00 09 28.4–.45 37.03N–.02 140.74E–.04 20–2 4.3b,4.5
NEIC IV 12 00 09 28.2–1.6 37.00N 140.48E 8–9 4.5b,4.5
MOS IV 12 00 09 30.1–1.2 37.03N 140.66E 32 4.5b,4.5
IDC IV 12 00 09 30.0–3.3 37.04N 140.54E 17–20 4.3,4.2
ISC Event type se.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ48.00000°,λ-76.00000°. NP2:ϕ_s212.00000°,δ44.00000°,λ-106.00000°. Principal axes: T Plg2.0000°,Azm133.0000°; N Plg11.0000°,Azm223.0000°; P Plg79.0000°,Azm30.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=15.3.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.6km az=74.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=11.5km s-min=7.6km az=103.7.
IDC Error ellipse: s-maj=16.6km s-min=12.9km az=85.0.
JMA IV 12 00 21 47.5 37.11N 140.78E 9–1 3.6 ¶600584386
JMA Event type fe.
JMA IV 12 00 55 11.3 36.84N 138.55E 0 1.8 ¶602945428
JMA IV 12 02 06 47.3 37.10N 140.62E 13–1 3.7 ¶600584527
JMA Event type fe.
ISC IV 12 02 13 50.8–.96 37.03N–.03 140.54E–.04 15–6 4.4s,4.4b 144 0-147
NIED IV 12 02 13 00 37.00N 140.70E 8 4.2W,4.4b ¶16418169
JMA IV 12 02 13 50.0 37.02N 140.68E 10–1 4.2,4.4b
NEIC IV 12 02 13 50.3–.16 36.98N 140.40E 10 4.6b,4.4b
ISCJB IV 12 02 13 51.0–.47 37.00N–.03 140.48E–.04 26–3 4.5b,4.1s
BJI IV 12 02 13 52.1 36.67N 140.59E 50 5.2b,4.5b
IDC IV 12 02 13 59.4–2.6 37.04N 140.50E 84–22 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ36.00000°,λ-104.00000°. NP2:ϕ_s132.00000°,δ56.00000°,λ-80.00000°. $M_0$2.33000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s134.00000°,δ49.00000°,λ-75.00000°. NP2:ϕ_s291.00000°,δ43.00000°,λ-107.00000°. Principal axes: T Plg3.0000°,Azm213.0000°; N Plg12.0000°,Azm304.0000°; P Plg78.0000°,Azm109.0000°
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=133.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.2km az=17.5.
IDC Error ellipse: s-maj=14.4km s-min=13.5km az=104.0.
JMA IV 12 02 15 39.5 37.10N 140.63E 13–1 3.5 ¶600584533
JMA Event type fe.
JMA IV 12 03 01 41.3 37.01N 140.63E 9–1 2.9 ¶600584600
JMA IV 12 03 13 45.5 37.03N 140.69E 10–1 3.5 ¶600584624
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s307.00000°,δ48.00000°,λ-94.00000°. NP2:ϕ_s133.00000°,δ42.00000°,λ-86.00000°. Principal axes: T Plg3.0000°,Azm40.0000°; N Plg3.0000°,Azm310.0000°; P Plg86.0000°,Azm171.0000°
ISC IV 12 03 20 55.7–1.0 37.01N–.03 140.67E–.04 7–7 3.6b 28 0-147
ISCJB IV 12 03 20 55.2–.59 37.00N–.03 140.74E–.05 15–4 3.8s,3.7b ¶600584646
JMA IV 12 03 20 55.5 37.01N 140.68E 5–1 3.9,3.7b
IDC IV 12 03 20 57.5–4.3 36.97N 140.52E 19–27 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=17.8.
JMA Event type fe.
IDC Error ellipse: s-maj=24.6km s-min=18.4km az=81.0.
JMA IV 12 03 25 43.6 37.02N 140.70E 9–1 3.1 ¶600584655
JMA Event type fe.
JMA IV 12 03 28 32.2 37.02N 140.68E 3–2 2.5 ¶600584659
JMA IV 12 04 28 49.6 37.02N 140.59E 8–1 2.9 ¶600584732
JMA IV 12 04 57 03.0 37.04N 140.62E 8–1 2.5 ¶600584752
ISC IV 12 05 07 42.2–.29 37.12N–.02 140.58E–.02 14–1 6.2b,5.9s 2277 0-165
NIED IV 12 05 07 00 37.00N 140.70E 8 5.9W,5.9s ¶16418173
BJI IV 12 05 07 35.5 36.90N 140.80E 5 6.3s,6.2
ISCJB IV 12 05 07 39.4–.47 37.13N–.01 140.40E–.01 5–2 6.0b,5.9s
IDC IV 12 05 07 40.0–.30 37.13N 140.48E 0 5.7,5.7
NEIC IV 12 05 07 41.9–.07 37.11N 140.37E 11 6.3b,6.2
GCMT IV 12 05 07 41.9–.10 37.08N 140.63E 18–0 5.9W,6.2
NEIC IV 12 05 07 42.0–.00 37.00N 140.90E 15 5.9W,6.2
JMA IV 12 05 07 42.2 37.05N 140.64E 15–1 6.4,6.2
MOS IV 12 05 07 44.4–.91 37.44N 140.38E 28 6.3b,5.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ51.00000°,λ2.00000°. NP2:ϕ_s76.00000°,δ89.00000°,λ141.00000°. $M_0$7.05000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=153.4.
IDC Error ellipse: s-maj=11.8km s-min=8.1km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=138.0. Felt in the Tokyo area. Recorded [6L JMA] in Fukushima and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s81 Moment tensor: Scale 10^{17}Nm; M_{rr}2.03 $M_{\theta\theta}$1.77 $M_{\phi\phi}$-3.80 $M_{r\theta}$4.66 $M_{\theta\phi}$-4.61 $M_{\phi r}$2.04 Best double couple: NP1:ϕ_s67.00000°,δ80.00000°,λ133.00000°. NP2:ϕ_s167.00000°,δ44.00000°,λ14.00000°. Principal axes: T 6.9300,Plg39.0000°,Azm15.0000°; N 1.2300,Plg42.0000°,Azm238.0000°; P -8.1600,Plg23.0000°,Azm125.0000° $M_0$7.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s179.00000°,δ30.00000°,λ10.00000°. NP2:ϕ_s80.00000°,δ85.00000°,λ120.00000°. Principal axes: T Plg42.0000°,Azm19.0000°; N Plg0.0000°,Azm0.0000°; P Plg33.0000°,Azm145.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c278; s141,c445;Duration: 2s3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.24±.01 $M_{\theta\theta}$0.22±.01; $M_{\phi\phi}$-0.46±.01; $M_{r\theta}$0.55±.02; $M_{\theta\phi}$-0.73±.01; $M_{\phi r}$0.11±.01; Best double couple: NP1:ϕ_s73.00000°,δ81.00000°,λ143.00000°. NP2:ϕ_s170.00000°,δ53.00000°,λ12.00000°. Principal axes: T 0.9530,Plg33.0000°,Azm25.0000°; N 0.1020,Plg52.0000°,Azm241.0000°; P -1.0550,Plg18.0000°,Azm127.0000° $M_0$1.00400×10^{18}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}4.19 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-4.00 $M_{r\theta}$4.92 $M_{\theta\phi}$-4.31 $M_{\phi r}$2.49 Best double couple: NP1:ϕ_s58.00000°,δ71.00000°,λ116.00000°. NP2:ϕ_s182.00000°,δ32.00000°,λ38.00000°. Principal axes: T 7.3900,Plg56.0000°,Azm2.0000°; N 1.2800,Plg24.0000°,Azm228.0000°; P -8.6800,Plg21.0000°,Azm128.0000° $M_0$8.10000×10^{17}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s51.00000°,δ58.00000°,λ107.00000°. NP2:ϕ_s202.00000°,δ36.00000°,λ66.00000°. Principal axes: T Plg72.0000°,Azm2.0000°; N Plg14.0000°,Azm222.0000°; P Plg11.0000°,Azm129.0000°
MOS Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=106.6. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
JMA IV 12 05 10 43.8 37.03N 140.68E 11–1 4.3 ¶600584767
JMA Event type fe.
JMA IV 12 05 12 11.6–.30 36.80N 138.59E 0–3 3.7 ¶600584768
JMA Event type fe.
JMA IV 12 05 14 17.1 37.04N 140.68E 12–1 3.2 ¶17200730
JMA IV 12 05 14 37.9 37.07N 140.65E 15–1 3.8 ¶600584769
JMA Event type fe.
ISC IV 12 05 15 06.2–.92 37.07N–.03 140.63E–.06 11–8 4.0b 24 0-68
ISCJB IV 12 05 15 05.9–.59 37.06N–.03 140.77E–.05 19–4 3.9b ¶600584771
JMA IV 12 05 15 06.5 37.05N 140.67E 13–1 4.5
IDC IV 12 05 15 11.5–3.8 36.67N 140.63E 72–33 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=19.9.
JMA Event type fe.
IDC Error ellipse: s-maj=36.3km s-min=22.3km az=87.0.
ISC IV 12 05 26 33.5–.68 37.07N–.03 140.67E–.03 18–4 4.7b 259 0-152
BJI IV 12 05 26 26.8 36.97N 141.22E 5 5.3b,5.3s ¶16418174
ISCJB IV 12 05 26 32.8–.38 37.06N–.02 140.67E–.03 24–2 4.9s,4.6b
JMA IV 12 05 26 33.2 37.04N 140.65E 14–1 4.8,4.6b
IDC IV 12 05 26 33.4–4.0 37.06N 140.57E 16–24 4.5,4.5
MOS IV 12 05 26 34.1–1.3 37.16N 140.62E 33 4.8b,4.5
NEIC IV 12 05 26 36.4–.19 37.06N 140.65E 35 4.7b,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=41.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s274.00000°,δ69.00000°,λ-119.00000°. NP2:ϕ_s152.00000°,δ35.00000°,λ-38.00000°. Principal axes: T Plg19.0000°,Azm26.0000°; N Plg27.0000°,Azm286.0000°; P Plg56.0000°,Azm146.0000°
IDC Error ellipse: s-maj=13.9km s-min=9.8km az=98.0.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=98.8.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.2km az=125.0. Recorded [4 JMA] in Fukushima.
ISC IV 12 05 32 46.8–1.0 37.11N–.03 140.58E–.05 9–8 3.5b 25 0-64
ISCJB IV 12 05 32 46.7–.51 37.09N–.03 140.71E–.05 20–4 3.4b ¶17200731
JMA IV 12 05 32 47.1 37.10N 140.65E 15–1 4.0
IDC IV 12 05 32 54.2–2.9 36.98N 140.46E 71–26 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.9km az=15.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ85.00000°,λ151.00000°. NP2:ϕ_s168.00000°,δ61.00000°,λ6.00000°. Principal axes: T Plg24.0000°,Azm27.0000°; N Plg60.0000°,Azm245.0000°; P Plg16.0000°,Azm125.0000°
IDC Error ellipse: s-maj=25.2km s-min=17.5km az=101.0.
ISC IV 12 05 42 20.1–1.2 37.09N–.03 140.59E–.04 4–8 3.7b 30 0-147
ISCJB IV 12 05 42 20.0–.89 37.07N–.03 140.68E–.04 14–6 3.6b ¶600584790
IDC IV 12 05 42 19.4–.75 37.03N 140.55E 0 3.8,3.7
JMA IV 12 05 42 20.4 37.08N 140.64E 6–2 4.1,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=24.4.
IDC Error ellipse: s-maj=19.7km s-min=18.1km az=155.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s233.00000°,δ64.00000°,λ-95.00000°. NP2:ϕ_s65.00000°,δ26.00000°,λ-79.00000°. Principal axes: T Plg19.0000°,Azm327.0000°; N Plg5.0000°,Azm235.0000°; P Plg70.0000°,Azm132.0000°
JMA IV 12 05 45 44.6 37.07N 140.63E 15–1 2.5 ¶600584806
ISC IV 12 06 23 18.3–.92 37.01N–.03 140.66E–.05 11–6 3.5b 26 0-147
IDC IV 12 06 23 16.8–.72 37.02N 140.70E 0 3.9,3.7 ¶17200740
ISCJB IV 12 06 23 17.7–.65 36.99N–.03 140.82E–.07 18–4 3.7b,3.7
JMA IV 12 06 23 18.6 37.01N 140.67E 8–1 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=17.7km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.9km az=19.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s44.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_s224.00000°,δ44.00000°,λ-90.00000°. Principal axes: T Plg1.0000°,Azm134.0000°; N Plg0.0000°,Azm44.0000°; P Plg89.0000°,Azm314.0000°
JMA IV 12 06 43 13.4 37.04N 140.67E 7–1 2.7 ¶600584898
ISC IV 12 07 14 19.2–1.4 37.10N–.04 140.9E–.10 8–6 3.6b 15 0-69
IDC IV 12 07 14 17.0–1.9 37.09N 141.14E 0 3.6,3.6b ¶602557222
ISCJB IV 12 07 14 17.6–1.9 37.10N–.04 141.0E–.10 9–9 3.6b,3.6b
JMA IV 12 07 14 19.4 37.10N 140.86E 7–1 3.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=26.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=18.1km s-min=6.7km az=9.6.
JMA Event type fe.
ISC IV 12 07 15 00.2–1.0 36.82N–.03 138.53E–.03 6–6 4.6b,3.7s 305 0-149
NIED IV 12 07 14 00 36.80N 138.60E 5 4.5W,3.7s ¶602557260
BJI IV 12 07 14 54.3 36.59N 139.14E 10 4.9b,4.5b
IDC IV 12 07 14 58.4–.43 36.88N 138.47E 0 4.2,4.2
ISCJB IV 12 07 14 59.3–.54 36.86N–.02 138.42E–.03 4–3 4.5b,3.9s
JMA IV 12 07 14 59.5–.30 36.83N 138.57E 1–3 4.6,3.9s
MOS IV 12 07 15 01.1–1.6 36.78N 138.34E 26 4.6b,3.9s
NEIC IV 12 07 15 02.3–.97 36.76N 138.33E 17–6 4.7b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ61.00000°,λ10.00000°. NP2:ϕ_s263.00000°,δ81.00000°,λ151.00000°. $M_0$6.39000×10^{15}
IDC Error ellipse: s-maj=13.1km s-min=5.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.6km az=151.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s9.00000°,δ87.00000°,λ20.00000°. NP2:ϕ_s278.00000°,δ70.00000°,λ177.00000°. Principal axes: T Plg16.0000°,Azm235.0000°; N Plg70.0000°,Azm17.0000°; P Plg12.0000°,Azm142.0000°
MOS Error ellipse: s-maj=9.7km s-min=5.8km az=87.6.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.2km az=155.0. Recorded [4 JMA] in Nagano.
JMA IV 12 07 25 04.3 37.01N 140.67E 7–1 2.5 ¶600584938
JMA IV 12 07 25 11.4 37.03N 140.67E 13–1 2.8 ¶600584941
JMA IV 12 07 39 55.6 37.05N 140.68E 11–1 2.0 ¶602945429
ISC IV 12 07 41 07.0–.99 37.07N–.04 140.68E–.08 16–9 15 0-57
IDC IV 12 07 41 04.7–2.8 37.20N 140.81E 0 3.6,3.6b ¶600584960
ISCJB IV 12 07 41 07.0–1.0 37.06N–.05 140.78E–.09 17–6 3.7b,3.6b
JMA IV 12 07 41 07.7 37.05N 140.65E 6–1 2.9,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=44.8km s-min=32.6km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.9km az=168.1.
ISC IV 12 07 47 15.7–.96 37.02N–.03 140.69E–.04 9–6 4.2b 88 0-147
NIED IV 12 07 47 00 37.10N 140.80E 5 4.3W ¶16418180
ISCJB IV 12 07 47 15.7–.56 37.02N–.03 140.87E–.05 19–3 4.1b,3.6s
JMA IV 12 07 47 16.4 37.05N 140.78E 11–1 4.4,3.6s
MOS IV 12 07 47 17.1–1.1 36.95N 140.89E 33 4.4b,3.6s
NEIC IV 12 07 47 22.4–.82 37.09N 140.67E 59–7 4.5b,3.6s
IDC IV 12 07 47 22.5–2.1 36.99N 140.71E 62–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ49.00000°,λ-40.00000°. NP2:ϕ_s2.00000°,δ61.00000°,λ-131.00000°. $M_0$2.95000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=30.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s240.00000°,δ54.00000°,λ-54.00000°. NP2:ϕ_s8.00000°,δ49.00000°,λ-130.00000°. Principal axes: T Plg3.0000°,Azm305.0000°; N Plg29.0000°,Azm37.0000°; P Plg61.0000°,Azm210.0000°
MOS Error ellipse: s-maj=10.1km s-min=6.5km az=79.8.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=6.8km az=121.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.5km s-min=11.7km az=123.0.
ISC IV 12 07 49 19.8–1.0 37.06N–.04 140.62E–.06 8–8 4.0b 23 0-147
ISCJB IV 12 07 49 19.4–.61 37.04N–.03 140.76E–.06 19–4 3.8b ¶17200759
JMA IV 12 07 49 20.1 37.04N 140.67E 8–1 3.9
IDC IV 12 07 49 28.2–3.9 36.97N 140.46E 76–32 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=7.5.
JMA Event type fe.
IDC Error ellipse: s-maj=31.8km s-min=17.8km az=82.0.
JMA IV 12 08 01 21.2 37.06N 140.67E 13–1 2.8 ¶600584983
JMA IV 12 08 05 50.7 37.02N 140.65E 7–1 2.7 ¶600584996
JMA IV 12 08 14 28.3 40.26N 140.37E 12–1 3.5 ¶600585021
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s108.00000°,δ78.00000°,λ17.00000°. NP2:ϕ_s15.00000°,δ74.00000°,λ168.00000°. Principal axes: T Plg20.0000°,Azm332.0000°; N Plg70.0000°,Azm143.0000°; P Plg3.0000°

,Azm241.0000°
ISC IV 12 08 48 26.0–.61 37.06N–.02 140.64E–.03 14–3 4.9b,3.9s 727 0-150
NIED IV 12 08 48 00 37.00N 140.70E 5 4.5W,3.9s **¶602557231**
BJI IV 12 08 48 19.1 36.82N 141.04E 5 4.9b,4.7b
IDC IV 12 08 48 23.6–.40 37.06N 140.56E 0 4.8,4.8
JMA IV 12 08 48 25.4 37.03N 140.69E 10–1 4.9,4.8
ISCJB IV 12 08 48 26.3–.47 37.03N–.02 140.49E–.02 24–3 4.8b,3.9s
MOS IV 12 08 48 29.2–.82 37.36N 140.39E 34 5.0b,3.9s
NEIC IV 12 08 48 30.3–.46 37.08N 140.43E 41–4 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ37.00000°,λ-89.00000°. NP2:ϕ_s73.00000°,δ53.00000°,λ-91.00000°. $M_0$6.98000×10^{15}
IDC Error ellipse: s-maj=11.1km s-min=9.0km az=142.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ51.00000°,λ-100.00000°. NP2:ϕ_s270.00000°,δ40.00000°,λ-79.00000°. Principal axes: T Plg5.0000°,Azm172.0000°; N Plg7.0000°,Azm81.0000°; P Plg81.0000° ,Azm297.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=44.8.
MOS Error ellipse: s-maj=6.4km s-min=4.4km az=101.7.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=136.0. Recorded [4 JMA] in Fukushima.
JMA IV 12 09 00 04.5 37.04N 140.67E 6–3 1.7
¶16505348
ISC IV 12 09 14 27.7–1.1 36.82N–.04 138.62E–.03 7–10 22 0-85
NIED IV 12 09 14 00 36.80N 138.60E 8 3.8W **¶17200764**
IDC IV 12 09 14 26.4–2.1 36.85N 138.63E 0 3.9,3.8
ISCJB IV 12 09 14 27.1–.55 36.83N–.04 138.60E–.04 9–5 3.9b,3.3s
JMA IV 12 09 14 27.8 36.83N 138.61E 5–3 3.6,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ76.00000°,λ-177.00000°. NP2:ϕ_s10.00000°,δ87.00000°,λ-14.00000°. $M_0$4.74000×10^{14}
IDC Error ellipse: s-maj=14.0km s-min=8.1km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.0km az=146.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s104.00000°,δ87.00000°,λ176.00000°. NP2:ϕ_s194.00000°,δ86.00000°,λ3.00000°. Principal axes: T Plg5.0000°,Azm59.0000°; N Plg85.0000°,Azm250.0000°; P Plg1.0000° ,Azm149.0000°
JMA IV 12 09 16 51.8 37.02N 140.70E 10–1 3.6
NIED IV 12 09 16 00 37.00N 140.70E 5 3.3W **¶600585137**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ54.00000°,λ-138.00000°. NP2:ϕ_s326.00000°,δ57.00000°,λ-44.00000°. $M_0$8.72000×10^{13}
ISC IV 12 10 15 34.5–.83 37.16N–.03 140.70E–.03 8–5 4.4b,3.5s 196 0-151
NIED IV 12 10 15 00 37.20N 140.90E 5 4.1W,3.5s **¶602557232**
BJI IV 12 10 15 31.4 37.16N 140.83E 5 4.9b,4.6s
IDC IV 12 10 15 32.9–.43 37.15N 140.70E 0 4.4,4.3L
JMA IV 12 10 15 34.7 37.15N 140.82E 10 4.5,4.3L
ISCJB IV 12 10 15 34.6–.42 37.14N–.02 140.78E–.03 19–2 4.4b,3.6s
MOS IV 12 10 15 37.0–1.1 37.20N 140.70E 39 4.6b,3.6s
NEIC IV 12 10 15 40.3–.64 37.12N 140.66E 52–5 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ52.00000°,λ-36.00000°. NP2:ϕ_s354.00000°,δ62.00000°,λ-136.00000°. $M_0$1.42000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=111.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ54.00000°,λ-59.00000°. NP2:ϕ_s13.00000°,δ46.00000°,λ-125.00000°. Principal axes: T Plg4.0000°,Azm307.0000°; N Plg25.0000°,Azm39.0000°; P Plg65.0000° ,Azm209.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=25.5.
MOS Error ellipse: s-maj=8.5km s-min=5.7km az=89.7.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=123.0. Recorded [4 JMA] in Fukushima.
JMA IV 12 10 53 47.6–.20 36.84N 138.58E 1–3 1.6
¶600585324
ISC IV 12 11 00 53.0–1.3 37.07N–.05 140.64E–.04 16–9 3.7b 27 0-91
NIED IV 12 11 00 00 37.10N 140.70E 14 3.5W **¶602557243**
IDC IV 12 11 00 50.6–.82 37.08N 140.62E 0 4.0,3.8
ISCJB IV 12 11 00 52.6–.50 37.06N–.03 140.73E–.06 25–3 3.7b,3.8
JMA IV 12 11 00 53.5 37.06N 140.64E 15–1 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ38.00000°,λ122.00000°. NP2:ϕ_s45.00000°,δ59.00000°,λ68.00000°. $M_0$2.33000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=16.3km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=0.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s253.00000°,δ47.00000°,λ101.00000°. NP2:ϕ_s58.00000°,δ44.00000°,λ79.00000°. Principal axes: T Plg82.0000°,Azm232.0000°; N Plg8.0000°,Azm66.0000°; P Plg2.0000° ,Azm336.0000°
ISC IV 12 12 33 50.6–.95 37.03N–.03 140.64E–.04 11–8 3.6b 17 0-61
NIED IV 12 12 33 00 37.00N 140.60E 5 3.5W **¶17200774**
ISCJB IV 12 12 33 50.0–.62 37.02N–.04 140.69E–.06 20–5 3.6b
IDC IV 12 12 33 49.0–1.4 36.96N 140.64E 0 3.8,3.6b
JMA IV 12 12 33 50.6 37.03N 140.62E 6–1 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ43.00000°,λ-92.00000°. NP2:ϕ_s56.00000°,δ47.00000°,λ-88.00000°. $M_0$1.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.0km az=5.8.
IDC Error ellipse: s-maj=27.0km s-min=17.6km az=8.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ50.00000°,λ-103.00000°. NP2:ϕ_s249.00000°,δ42.00000°,λ-75.00000°. Principal axes: T Plg4.0000°,Azm148.0000°; N Plg10.0000°,Azm57.0000°; P Plg79.0000° ,Azm260.0000°
JMA IV 12 12 43 48.4 37.02N 140.60E 11–1 2.6
¶600585458
ISC IV 12 13 07 31.8–1.1 36.82N–.05 138.61E–.03 8–10 20 0-60
NIED IV 12 13 07 00 36.80N 138.60E 5 3.8W **¶17200778**
IDC IV 12 13 07 30.6–1.6 36.83N 138.62E 0 3.7,3.5
ISCJB IV 12 13 07 31.7–.49 36.76N–.04 138.61E–.04 24–6 3.6b,3.5
JMA IV 12 13 07 31.6 36.81N 138.62E 0 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ59.00000°,λ-179.00000°. NP2:ϕ_s12.00000°,δ89.00000°,λ-31.00000°. $M_0$4.83000×10^{14}
IDC Error ellipse: s-maj=12.0km s-min=9.3km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=152.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s16.00000°,δ89.00000°,λ-18.00000°. NP2:ϕ_s107.00000°,δ72.00000°,λ-179.00000°. Principal axes: T Plg12.0000°,Azm63.0000°; N Plg72.0000°,Azm194.0000°; P Plg13.0000° ,Azm330.0000°
JMA IV 12 13 25 59.2 37.05N 140.67E 12–1 3.7
NIED IV 12 13 25 00 37.10N 140.70E 17 3.5W **¶600585489**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s260.00000°,δ75.00000°,λ-135.00000°. NP2:ϕ_s156.00000°,δ47.00000°,λ-21.00000°. Principal axes: T Plg17.0000°,Azm22.0000°; N Plg43.0000°,Azm275.0000°; P Plg42.0000° ,Azm128.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ22.00000°. NP2:ϕ_s60.00000°,δ82.00000°,λ109.00000°. $M_0$1.69000×10^{14}
JMA IV 12 13 30 08.6 37.01N 140.67E 10–1 3.5
¶600585491
JMA Event type fe.
ISC IV 12 14 01 39.5–1.2 37.08N–.05 140.61E–.04 4–11 3.4b 20 0-61
IDC IV 12 14 01 38.8–1.6 37.12N 140.65E 0 3.6,3.4 **¶17200782**
ISCJB IV 12 14 01 39.7–1.9 37.03N–.03 140.74E–.05 14–14 3.4b,3.4
JMA IV 12 14 01 40.0 37.04N 140.67E 6–1 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=29.0km s-min=18.6km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.0km az=27.3.
ISC IV 12 15 09 49.7–1.0 37.02N–.03 140.68E–.05 7–7 3.6b 31 0-91
NIED IV 12 15 09 00 37.00N 140.70E 5 3.7W **¶17200783**
IDC IV 12 15 09 48.6–.64 36.99N 140.76E 0 3.8,3.7
ISCJB IV 12 15 09 49.4–.68 37.02N–.03 140.86E–.07 15–4 3.6b,3.7
JMA IV 12 15 09 50.4 37.04N 140.74E 9–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ35.00000°,λ-65.00000°. NP2:ϕ_s217.00000°,δ59.00000°,λ-106.00000°. $M_0$4.00000×10^{14}
IDC Error ellipse: s-maj=15.4km s-min=12.0km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.6km az=13.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s100.00000°,δ63.00000°,λ-32.00000°. NP2:ϕ_s206.00000°,δ62.00000°,λ-149.00000°. Principal axes: T Plg1.0000°,Azm153.0000°; N Plg49.0000°,Azm244.0000°; P Plg41.0000° ,Azm62.0000°
ISC IV 12 16 02 02.7–1.1 37.00N–.06 140.69E–.05 8–12 20 0-61
ISCJB IV 12 16 02 02.3–1.8 37.02N–.03 140.77E–.06 12–14 3.3b,3.0s **¶17200789**
JMA IV 12 16 02 03.1 37.03N 140.67E 7–1 3.4,3.0s
IDC IV 12 16 02 03.9–2.1 36.66N 140.72E 0 3.5,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=13.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s197.00000°,δ54.00000°,λ-115.00000°. NP2:ϕ_s55.00000°,δ43.00000°,λ-60.00000°. Principal axes: T Plg6.0000°,Azm304.0000°; N Plg20.0000°,Azm212.0000°; P Plg69.0000° ,Azm50.0000°
IDC Error ellipse: s-maj=42.4km s-min=6.3km az=15.0.
JMA IV 12 16 59 57.0 37.10N 140.66E 12–1 3.6
¶17200791
JMA Event type fe.
JMA IV 12 18 06 33.8 37.01N 140.66E 7–1 3.0
¶600585771
JMA Event type fe.
JMA IV 12 18 10 51.8 37.03N 140.68E 12–1 3.1
¶600585775
JMA IV 12 18 23 01.2–.10 36.89N 138.56E 0 1.0
¶17200796
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 12 18 26 42.5 37.01N 140.68E 8–1 2.7
¶600585795
JMA IV 12 18 56 43.9 37.03N 140.67E 13–1 3.0
¶600585807
ISC IV 12 19 29 34.3–.97 37.05N–.03 140.61E–.04 9–7 3.5b 25 0-69
IDC IV 12 19 29 30.9–1.2 37.20N 141.08E 0 3.6,3.5 **¶600585833**
ISCJB IV 12 19 29 33.7–1.7 37.04N–.03 140.68E–.04 11–12 3.4b,3.5
JMA IV 12 19 29 34.3 37.04N 140.63E 8–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=21.9km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=17.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s140.00000°,δ49.00000°,λ-68.00000°. NP2:ϕ_s287.00000°,δ45.00000°,λ-114.00000°. Principal axes: T Plg2.0000°,Azm214.0000°; N Plg17.0000°,Azm305.0000°; P Plg73.0000° ,Azm117.0000°
ISC IV 12 19 34 39.6–.91 37.08N–.03 140.67E–.05 19–3 3.8b 35 0-74
NIED IV 12 19 34 00 37.10N 140.70E 14 3.5W **¶602557264**
ISCJB IV 12 19 34 38.7–.53 37.08N–.03 140.76E–.05 27–3 3.8b
JMA IV 12 19 34 39.9 37.07N 140.65E 15–1 3.8
IDC IV 12 19 34 43.1–2.2 37.07N 140.71E 49–21 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ26.00000°,λ136.00000°. NP2:ϕ_s47.00000°,δ72.00000°,λ71.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=16.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ62.00000°,λ69.00000°. NP2:ϕ_s260.00000°,δ34.00000°,λ124.00000°. Principal axes: T Plg66.0000°,Azm273.0000°; N Plg18.0000°,Azm51.0000°; P Plg15.0000° ,Azm146.0000°
IDC Error ellipse: s-maj=19.0km s-min=12.0km az=61.0.
ISC IV 12 19 37 48.3–.35 39.38N–.03 141.98E–.03 48–2 5.5b,5.1s 1315 0-162
NIED IV 12 19 37 00 39.40N 142.00E 47 5.6W,5.1s **¶16423572**
BJI IV 12 19 37 44.8 39.40N 142.00E 50 5.4b,5.2s
MOS IV 12 19 37 46.9–.83 39.49N 141.89E 42 5.7b,5.2s
ISCJB IV 12 19 37 48.0–.25 39.33N–.02 141.92E–.02 56–2 5.4b,5.1s
JMA IV 12 19 37 48.4–.10 39.34N 142.06E 48–1 5.5,5.1s
GCMT IV 12 19 37 48.3–.10 39.39N 142.13E 52–0 5.6W,5.1s
NEIC IV 12 19 37 48.3–.10 39.37N 141.90E 45 5.6W,5.6W
NEIC IV 12 19 37 49.0–.00 39.43N 142.02E 44 5.6W,5.6W
IDC IV 12 19 37 51.2–2.1 39.38N 141.90E 72–18 5.0s,5.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ101.00000°. $M_0$2.64000×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.6km az=94.7.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=153.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ61.00000°,λ94.00000°. NP2:ϕ_s186.00000°,δ29.00000°,λ82.00000°. Principal axes: T Plg74.0000°,Azm295.0000°; N Plg4.0000°,Azm192.0000°; P Plg16.0000° ,Azm101.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c208; s123,c296;Duration: 1$_S$6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.45±.04 $M_{\theta\theta}$-0.18±.03; $M_{\phi\phi}$-2.26±.03; $M_{r\theta}$1.04±.03; $M_{\theta\phi}$-0.64±.02; $M_{\phi r}$1.88±.03; Best double couple: NP1:ϕ_s24.00000° ,δ66.00000°,λ97.00000°. NP2:ϕ_s188.00000°,δ25.00000°,λ75.00000°. Principal axes: T 3.2870,Plg68.0000°,Azm308.0000°; N -0.0590,Plg6.0000°,Azm201.0000° ; P -3.2210,Plg20.0000°,Azm109.0000° $M_0$3.25400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=146.0. Felt at Kesennuma. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s70 Moment tensor: Scale 10^{17}Nm; M_{rr}2.62 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$-2.32 $M_{r\theta}$1.35 $M_{\theta\phi}$-0.67 $M_{\phi r}$2.32 Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ97.00000°. Principal axes: T 3.8000,Plg66.0000°,Azm308.0000°; N -0.1600,Plg6.0000°,Azm204.0000° ; P -3.6400,Plg23.0000°,Azm111.0000° $M_0$3.70000×10^{17}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.80 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$-1.28 $M_{r\theta}$0.89 $M_{\theta\phi}$-0.19 $M_{\phi r}$2.56 Best double couple: NP1:ϕ_s18.00000° ,δ75.00000°,λ91.00000°. NP2:ϕ_s192.00000°,δ15.00000°,λ84.00000°. Principal axes: T 3.3700,Plg59.0000°,Azm290.0000°; N -0.4900,Plg1.0000°,Azm198.0000° ; P -2.8800,Plg30.0000°,Azm107.0000° $M_0$3.20000×10^{17}
IDC Error ellipse: s-maj=11.7km s-min=8.2km az=91.0.
ISC IV 12 20 52 09.7–1.2 37.05N–.03 140.55E–.05 6–10 3.5b 24 0-147
NIED IV 12 20 52 00 37.10N 140.70E 62 3.8W **¶17200807**
IDC IV 12 20 52 08.1–1.2 37.15N 140.80E 0 3.6,3.5
ISCJB IV 12 20 52 09.9–.61 37.05N–.03 140.78E–.06 22–4 3.4b,3.5
JMA IV 12 20 52 10.9 37.06N 140.68E 11–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ33.00000°,λ-124.00000°. NP2:ϕ_s186.00000°,δ63.00000°,λ-70.00000°. $M_0$5.05000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=20.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.9km az=2.2.
JMA Event type fe.
JMA IV 12 22 24 11.4 37.04N 140.61E 8–1 2.8
¶600585982
ISC IV 12 22 55 17.5–.92 37.03N–.03 140.68E–.04 10–6 3.7b 28 0-147
NIED IV 12 22 55 00 37.00N 140.70E 53 4.0W **¶17200820**
ISCJB IV 12 22 55 16.8–.59 37.03N–.03 140.77E–.05 18–4 3.8b
IDC IV 12 22 55 16.0–.77 37.03N 140.68E 0 4.0,3.8
JMA IV 12 22 55 17.6 37.04N 140.69E 9–1 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ47.00000°,λ126.00000°. NP2:ϕ_s352.00000°,δ54.00000°,λ57.00000°. $M_0$1.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.4km az=18.1.
IDC Error ellipse: s-maj=21.1km s-min=18.3km az=129.0.
JMA Event type fe.
JMA IV 12 23 57 28.9 37.03N 140.64E 7–1 2.8
¶600586056
JMA IV 13 01 58 51.4 37.01N 140.67E 8–1 2.6
¶600586129
ISC IV 13 04 36 52.5–.96 37.12N–.03 140.70E–.04 6–8 3.3b 22 0-57
ISCJB IV 13 04 36 52.0–.55 37.12N–.03 140.76E–.06 11–4 3.3b **¶17200856**
IDC IV 13 04 36 51.4–1.9 37.19N 140.79E 0 3.5,3.4
JMA IV 13 04 36 52.3 37.12N 140.70E 7–1 3.4,3.4

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=15.8.
IDC Error ellipse: s-maj=38.3km s-min=27.1km az=64.0.
JMA Event type fe.

ISC	**IV**	**13 05 52 21.1–.99**	**37.07N–.03**	**140.57E–.04**	**10–7**	**3.8b**	**31**	**0-147**
NIED	IV	13 05 52 00	37.10N	140.80E	20	3.9W		¶16423584
ISCJB	IV	13 05 52 21.5–.47	37.09N–.03	140.73E–.04	21–3	3.8b,3.7s		
JMA	IV	13 05 52 21.9	37.09N	140.65E	14–1	4.1,3.7s		
IDC	IV	13 05 52 29.1–2.8	37.16N	140.44E	71–26	3.9,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ38.00000°,λ28.00000°. NP2:ϕ_s74.00000°,δ73.00000°,λ125.00000°. $M_0$7.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=38.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ66.00000°,λ122.00000°. NP2:ϕ_s198.00000°,δ39.00000°,λ41.00000°. Principal axes: T Plg57.0000°,Azm28.0000°; N Plg29.0000°,Azm240.0000°; P Plg15.0000° ,Azm142.0000°
IDC Error ellipse: s-maj=23.0km s-min=15.9km az=91.0.

JMA	**IV**	**13 07 47 59.2**	**37.76N**	**140.00E**	**9–1**	**1.4**		
								¶603308253
JMA	**IV**	**13 09 23 45.6**	**37.02N**	**140.63E**	**7–1**	**2.7**		
								¶602945431
JMA	**IV**	**13 10 08 00.5**	**37.06N**	**140.80E**	**9–1**	**2.8**		
								¶600586440

JMA Event type fe.

JMA	**IV**	**13 10 11 03.5**	**37.09N**	**140.82E**	**8–1**	**1.9**		
								¶17200886
JMA	**IV**	**13 10 25 15.9**	**37.02N**	**140.68E**	**7–1**	**2.5**		
								¶600586462
JMA	**IV**	**13 10 37 58.4**	**37.06N**	**140.59E**	**8–1**	**2.8**		
								¶600586473

JMA Event type fe.

JMA	**IV**	**13 11 20 16.7**	**37.03N**	**140.72E**	**8–1**	**2.6**		
								¶600586533
JMA	**IV**	**13 13 59 10.8**	**37.79N**	**139.99E**	**8–1**	**2.6**		
								¶600586668
ISC	**IV**	**13 14 04 13.5–.84**	**37.06N–.03**	**140.67E–.04**	**14–6**	**3.5b**	**30**	**0-91**
NIED	IV	13 14 04 00	37.10N	140.70E	11	3.6W		¶600586672
IDC	IV	13 14 04 11.2–.88	37.05N	140.71E	0	3.7,3.6		
ISCJB	IV	13 14 04 12.8–.49	37.06N–.03	140.77E–.05	22–3	3.5b,3.6		
JMA	IV	13 14 04 13.6	37.06N	140.67E	13–1	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ43.00000°,λ96.00000°. NP2:ϕ_s51.00000°,δ47.00000°,λ84.00000°. $M_0$2.58000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=15.8km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=21.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s270.00000°,δ53.00000°,λ121.00000°. NP2:ϕ_s46.00000°,δ47.00000°,λ56.00000°. Principal axes: T Plg66.0000°,Azm242.0000°; N Plg24.0000°,Azm70.0000°; P Plg3.0000° ,Azm339.0000°

ISC	**IV**	**13 15 19 58.4–1.1**	**37.01N–.04**	**140.64E–.05**	**9–11**		**19**	**0-61**
ISCJB	IV	13 15 19 58.6–.64	37.02N–.03	140.75E–.06	15–6	3.8b		¶17200910
JMA	IV	13 15 19 59.1	37.03N	140.66E	6–1	3.2		
IDC	IV	13 15 20 01.9–3.6	36.36N	140.53E	0	3.9,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.5km az=21.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s247.00000°,δ83.00000°,λ-90.00000°. NP2:ϕ_s67.00000°,δ7.00000°,λ-90.00000°. Principal axes: T Plg38.0000°,Azm337.0000°; N Plg0.0000°,Azm67.0000°; P Plg52.0000° ,Azm157.0000°
IDC Error ellipse: s-maj=70.8km s-min=16.2km az=21.0.

JMA	**IV**	**13 16 03 00.1**	**37.04N**	**140.74E**	**9–1**	**2.6**		
								¶600586770
JMA	**IV**	**13 16 19 49.5**	**37.01N**	**140.62E**	**9–1**	**2.6**		
								¶600586780
ISC	**IV**	**13 17 03 24.3–1.2**	**37.09N–.03**	**140.59E–.05**	**1–11**	**3.5b**	**20**	**0-57**
IDC	IV	13 17 03 23.0–1.9	37.28N	140.67E	0	3.5,3.4b		¶17200919
ISCJB	IV	13 17 03 24.2–1.1	37.06N–.03	140.73E–.06	15–8	3.3b,3.4b		
JMA	IV	13 17 03 24.5	37.06N	140.68E	12–1	3.3,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=27.0km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.7km az=12.9.
JMA Event type fe.

ISC	**IV**	**13 17 41 11.6–1.0**	**37.06N–.03**	**140.56E–.04**	**8–8**	**3.6b**	**29**	**0-74**
NIED	IV	13 17 41 00	37.00N	140.60E	5	3.6W		¶17200921
IDC	IV	13 17 41 09.9–1.2	37.13N	140.75E	0	3.7,3.7		
ISCJB	IV	13 17 41 11.5–.48	37.04N–.03	140.70E–.05	20–4	3.6b,3.7		
JMA	IV	13 17 41 11.9	37.05N	140.61E	5–1	3.6,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ34.00000°,λ-99.00000°. NP2:ϕ_s115.00000°,δ56.00000°,λ-84.00000°. $M_0$3.08000×10^{14}
IDC Error ellipse: s-maj=32.2km s-min=18.0km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=16.9.
JMA Event type fe.

ISC	**IV**	**13 18 10 57.3–.92**	**37.02N–.03**	**140.73E–.05**	**13–7**		**20**	**0-61**
ISCJB	IV	13 18 10 56.6–.77	36.99N–.03	140.83E–.07	16–6	3.5b		¶17200925
IDC	IV	13 18 10 56.4–2.8	36.86N	140.79E	0	3.5,3.3b		
JMA	IV	13 18 10 57.5	37.02N	140.70E	9–1	3.1,3.3b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=4.9km az=17.7.
IDC Error ellipse: s-maj=50.6km s-min=29.7km az=29.0.
JMA Event type fe.

JMA	**IV**	**13 18 46 00.5**	**37.02N**	**140.70E**	**9–1**	**2.5**		
								¶600586895
JMA	**IV**	**13 19 24 34.3**	**37.02N**	**140.60E**	**9–1**	**2.5**		
								¶600586916
JMA	**IV**	**13 19 30 09.0**	**37.73N**	**139.97E**	**9–1**	**2.5**		
								¶600586923
JMA	**IV**	**13 21 04 01.4**	**36.23N**	**137.56E**	**3**	**1.5**		
								¶600586971
ISC	**IV**	**13 21 12 57.6–.91**	**37.01N–.03**	**140.61E–.05**	**16–9**		**17**	**0-57**
ISCJB	IV	13 21 12 57.8–.60	36.99N–.03	140.68E–.06	16–7	3.4b		¶17200949
JMA	IV	13 21 12 58.1	37.01N	140.60E	9–1	3.2		
IDC	IV	13 21 12 58.1–2.2	36.71N	140.63E	0	3.7,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.3km az=9.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s290.00000°,δ65.00000°,λ-84.00000°. NP2:ϕ_s95.00000°,δ25.00000°,λ-103.00000°. Principal axes: T Plg20.0000°,Azm15.0000°; N Plg6.0000°,Azm107.0000°; P Plg69.0000° ,Azm212.0000°
IDC Error ellipse: s-maj=38.4km s-min=24.7km az=64.0.

IDC	**IV**	**13 21 42 31.5–1.7**	**37.03N**	**140.07E**	**0**	**3.8,3.8**		
								¶603308254

IDC Error ellipse: s-maj=38.8km s-min=21.3km az=63.0.

ISC	**IV**	**13 23 43 40.3–.89**	**37.10N–.03**	**140.80E–.05**	**25–6**	**3.6b**	**28**	**0-64**
IDC	IV	13 23 43 36.4–1.2	37.27N	141.07E	0	3.6,3.5b		¶17200964
ISCJB	IV	13 23 43 40.5–.54	37.07N–.03	140.73E–.05	26–4	3.5b,3.5b		
JMA	IV	13 23 43 41.4	37.07N	140.65E	15–1	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=24.2km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=16.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s37.00000°,δ65.00000°,λ68.00000°. NP2:ϕ_s261.00000°,δ33.00000°,λ129.00000°. Principal axes: T Plg63.0000°,Azm270.0000°; N Plg20.0000°,Azm47.0000°; P Plg17.0000° ,Azm143.0000°

ISC	**IV**	**14 01 02 13.3–.91**	**37.01N–.03**	**140.63E–.04**	**14–7**	**3.8b**	**23**	**0-57**
NIED	IV	14 01 02 00	37.00N	140.60E	5	3.4W		¶600587135
IDC	IV	14 01 02 11.1–2.1	36.98N	140.79E	0	3.7,3.6b		
ISCJB	IV	14 01 02 13.3–.56	37.00N–.03	140.70E–.05	16–6	3.6b,3.6b		
JMA	IV	14 01 02 13.5	37.02N	140.62E	7–1	3.7,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ29.00000°,λ-82.00000°. NP2:ϕ_s128.00000°,δ61.00000°,λ-94.00000°. $M_0$1.33000×10^{14}
IDC Error ellipse: s-maj=40.0km s-min=29.1km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=19.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s113.00000°,δ58.00000°,λ-84.00000°. NP2:ϕ_s282.00000°,δ32.00000°,λ-99.00000°. Principal axes: T Plg13.0000°,Azm199.0000°; N Plg5.0000°,Azm290.0000°; P Plg76.0000° ,Azm40.0000°

ISC	**IV**	**14 03 04 06.2–.75**	**36.44N–.05**	**139.88E–.06**	**89–6**	**3.7b**	**38**	**0-117**
NIED	IV	14 03 04 00	36.40N	139.90E	83	3.9W		¶17200981
ISCJB	IV	14 03 04 05.2–.39	36.44N–.04	139.90E–.05	94–3	3.7b		
IDC	IV	14 03 04 06.8–1.0	36.43N	139.82E	94–11	3.8,3.7		
JMA	IV	14 03 04 06.5–.10	36.42N	139.85E	84–1	3.5,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ24.00000°,λ-66.00000°. NP2:ϕ_s158.00000°,δ68.00000°,λ-100.00000°. $M_0$7.33000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=6.0km az=19.9.
IDC Error ellipse: s-maj=15.9km s-min=9.6km az=73.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s148.00000°,δ66.00000°,λ-104.00000°. NP2: ϕ_s0.00000°,δ28.00000°,λ-61.00000°. Principal axes: T Plg20.0000°,Azm249.0000° ; N Plg13.0000°,Azm154.0000°; P Plg66.0000°,Azm33.0000°

ISC	**IV**	**14 03 08 58.8–.40**	**37.02N–.02**	**140.78E–.03**	**17–2**	**5.4b,4.5s**	**1412**	**0-165**
NIED	IV	14 03 08 00	37.00N	140.80E	8	5.0W,4.5s		¶16427219
BJI	IV	14 03 08 56.7	36.99N	141.04E	29	5.0b,4.9b		
NEIC	IV	14 03 08 58.0–.08	36.99N	140.60E	10	5.4b,4.9b		
IDC	IV	14 03 08 57.8–2.2	37.03N	140.66E	8–13	5.2,5.2		
JMA	IV	14 03 08 58.3	36.98N	140.77E	11–1	5.4,5.2		
GCMT	IV	14 03 08 58.0–.20	37.02N	140.74E	12	5.1W,5.2		
MOS	IV	14 03 08 58.8–.88	37.15N	140.65E	21	5.6b,4.4s		
ISCJB	IV	14 03 08 58.3–.35	37.02N–.02	140.69E–.02	20–2	5.3b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ46.00000°,λ-66.00000°. NP2:ϕ_s227.00000°,δ49.00000°,λ-113.00000°. $M_0$3.80000×10^{16}
NEIC Event type fe. Felt at Aizubange, Narita and Utsunomiya. Recorded [4 JMA] in Fukushima and Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s102.00000°,δ60.00000°,λ-56.00000°. NP2:ϕ_s228.00000°,δ44.00000°,λ-135.00000°. Principal axes: T Plg9.0000°,Azm168.0000°; N Plg29.0000°,Azm263.0000°; P Plg59.0000° ,Azm63.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c97; s91,c165;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.61±.09 $M_{\theta\theta}$3.70±.08; $M_{\phi\phi}$-0.09±.09; $M_{r\theta}$-0.35±.21; $M_{\theta\phi}$2.02±.07; $M_{\phi r}$3.21±.27; Best double couple: NP1:ϕ_s216.00000°,δ61.00000°,λ-127.00000°. NP2:ϕ_s94.00000°,δ46.00000°,λ-43.00000°. Principal axes: T 4.7120,Plg8.0000°,Azm332.0000°; N 0.9920,Plg32.0000°,Azm237.0000° ; P -5.7050,Plg57.0000°,Azm75.0000° $M_0$5.20900×10^{16}
ISCJB Event type fe.

JMA	**IV**	**14 05 14 17.9**	**37.02N**	**140.67E**	**12–1**	**3.5**		
								¶600587263

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s6.00000°,δ89.00000°,λ63.00000°. NP2:ϕ_s274.00000°,δ27.00000°,λ178.00000°. Principal axes: T Plg40.0000°,Azm251.0000°; N Plg27.0000°,Azm6.0000°; P Plg38.0000° ,Azm120.0000°

JMA	**IV**	**14 07 26 07.7**	**37.00N**	**140.74E**	**7–1**	**3.0**		
								¶600587361

JMA Event type fe.

ISC	**IV**	**14 07 41 32.1–1.0**	**37.02N–.04**	**140.69E–.07**	**9–9**	**3.5b**	**15**	**0-61**
ISCJB	IV	14 07 41 30.9–.88	37.00N–.04	140.84E–.09	17–6	3.5b		¶17200995
IDC	IV	14 07 41 30.1–2.0	36.99N	140.81E	0	3.6,3.4		
JMA	IV	14 07 41 31.7	37.03N	140.65E	8–1	3.3,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.9km az=14.1.
IDC Error ellipse: s-maj=41.1km s-min=25.0km az=48.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ66.00000°,λ-100.00000°. NP2:ϕ_s51.00000°,δ26.00000°,λ-69.00000°. Principal axes: T Plg20.0000°,Azm305.0000°; N Plg9.0000°,Azm212.0000°; P Plg68.0000° ,Azm98.0000°

ISC	**IV**	**14 08 14 50.8–1.0**	**37.03N–.04**	**140.55E–.04**	**10–7**	**4.0b**	**31**	**0-61**
NIED	IV	14 08 14 00	37.00N	140.70E	5	3.8W		¶16587510
IDC	IV	14 08 14 48.9–1.3	37.04N	140.75E	0	3.8,3.8		
JMA	IV	14 08 14 51.7	36.96N	140.69E	11–1	3.9,3.8		
NEIC	IV	14 08 14 56.5–1.0	36.95N	140.54E	54–12	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ24.00000°,λ-99.00000°. NP2:ϕ_s327.00000°,δ66.00000°,λ-86.00000°. $M_0$5.72000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=23.3km az=77.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ55.00000°,λ-97.00000°. NP2:ϕ_s168.00000°,δ36.00000°,λ-81.00000°. Principal axes: T Plg10.0000°,Azm71.0000°; N Plg5.0000°,Azm340.0000°; P Plg79.0000° ,Azm221.0000°
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=10.5km az=116.0.

ISC	**IV**	**14 09 31 06.2–1.4**	**37.13N–.04**	**140.91E–.07**	**8–7**	**3.7b**	**19**	**0-69**
NIED	IV	14 09 31 00	37.10N	140.90E	5	3.6W		¶600587439
ISCJB	IV	14 09 31 04.4–1.1	37.12N–.04	141.04E–.07	6–5	3.7b		
IDC	IV	14 09 31 04.1–1.5	37.23N	141.09E	0	3.7,3.6		
JMA	IV	14 09 31 06.6	37.14N	140.88E	7	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ27.00000°,λ-114.00000°. NP2:ϕ_s215.00000°,δ66.00000°,λ-78.00000°. $M_0$2.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.0km az=17.9.
IDC Error ellipse: s-maj=34.7km s-min=24.7km az=67.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ47.00000°,λ-71.00000°. NP2:ϕ_s359.00000°,δ47.00000°,λ-109.00000°. Principal axes: T Plg0.0000°,Azm283.0000°; N Plg14.0000°,Azm13.0000°; P Plg76.0000° ,Azm193.0000°

ISC	**IV**	**14 11 24 30.8–.78**	**37.12N–.03**	**140.78E–.04**	**10–4**	**4.1b**	**53**	**0-147**
NIED	IV	14 11 24 00	37.10N	140.80E	5	4.0W		¶16436900
IDC	IV	14 11 24 29.3–.54	37.15N	140.74E	0	4.3,4.1		
ISCJB	IV	14 11 24 30.6–1.0	37.12N–.03	140.88E–.04	15–6	4.1b,2.9s		
JMA	IV	14 11 24 30.8	37.12N	140.77E	9–1	4.4,2.9s		
NEIC	IV	14 11 24 32.8–2.1	37.06N	140.86E	25–15	4.5b,2.9s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ39.00000°,λ-122.00000°. NP2:ϕ_s236.00000°,δ58.00000°,λ-67.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=11.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s85.00000°,δ60.00000°,λ-37.00000°. NP2:ϕ_s196.00000°,δ59.00000°,λ-144.00000°. Principal axes: T Plg1.0000°,Azm141.0000°; N Plg44.0000°,Azm232.0000°; P Plg46.0000° ,Azm50.0000°
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.7km az=105.0. Recorded [3 JMA] in Fukushima.

JMA	**IV**	**14 11 54 15.3**	**37.02N**	**140.60E**	**9–1**	**2.5**		
								¶600587511
ISC	**IV**	**14 12 24 06.4–.80**	**37.10N–.05**	**140.79E–.07**	**6–5**	**4.1b,3.2s**	**45**	**0-90**
NIED	IV	14 12 24 00	37.10N	140.90E	5	3.9W,3.2s		¶602557482
ISCJB	IV	14 12 24 04.7–.88	37.07N–.03	141.01E–.05	7–4	4.0b,3.1s		
IDC	IV	14 12 24 05.2–.64	37.08N	140.89E	0	4.1,4.0		
JMA	IV	14 12 24 06.6	37.09N	140.82E	6–1	3.9,4.0		
NEIC	IV	14 12 24 10.3–.87	37.06N	140.93E	35–8	4.4b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ30.00000°,λ-119.00000°. NP2:ϕ_s258.00000°,δ64.00000°,λ-75.00000°. $M_0$9.27000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.8km az=32.1.
IDC Error ellipse: s-maj=17.5km s-min=13.9km az=107.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=7.8km az=123.0. Recorded [3 JMA] in Fukushima.

ISC	**IV**	**14 16 47 26.6–.96**	**37.09N–.03**	**140.66E–.06**	**7–9**		**22**	**0-61**
IDC	IV	14 16 47 24.9–3.1	37.11N	140.72E	0	3.6,3.5		¶17201040
ISCJB	IV	14 16 47 26.4–.92	37.06N–.03	140.76E–.05	13–7	3.5b,3.5		

JMA IV 14 16 47 26.9 37.07N 140.69E 7–1 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=50.0km s-min=32.1km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=17.3.
ISC IV 14 17 12 38.8–1.3 37.04N–.06 140.88E–.08 9–7 3.4b 15 0-57
IDC IV 14 17 12 36.5–2.1 37.11N 141.15E 0 3.4,3.3b **¶17201042**
ISCJB IV 14 17 12 37.3–1.3 37.07N–.04 141.04E–.08 6–5 3.3b,3.3b
JMA IV 14 17 12 39.8 37.09N 140.84E 8–1 2.8,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=41.2km s-min=31.5km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.8km az=8.6.
JMA Event type fe.
JMA IV 14 18 46 50.6 37.07N 140.65E 15–1 2.7
¶600587896
JMA IV 14 20 00 55.1 36.95N 138.59E 6–1 0.9
¶602557496
JMA IV 14 22 48 48.1 37.04N 140.66E 10–1 3.0
¶16505377
JMA IV 14 22 52 36.4 37.01N 140.67E 13–1 3.6
¶600588146
JMA Event type fe.
ISC IV 14 23 05 23.9–1.3 37.02N–.06 140.65E–.05 5–12 3.6b 14 0-61
IDC IV 14 23 05 22.5–2.3 37.08N 140.89E 0 3.7,3.6 **¶17201071**
ISCJB IV 14 23 05 23.4–1.1 37.04N–.05 140.93E–.09 17–7 3.6s,3.5b
JMA IV 14 23 05 24.7 37.07N 140.69E 8–1 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=29.8km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.5km az=14.2.
JMA Event type fe.
JMA IV 15 00 47 02.6 37.03N 140.67E 5–1 2.5
¶600588281
ISC IV 15 02 54 03.7–1.2 37.02N–.04 140.62E–.04 14–10 21 0-57
IDC IV 15 02 54 01.9–2.5 37.01N 140.75E 0 3.7,3.5b **¶17201079**
ISCJB IV 15 02 54 04.2–.56 37.00N–.03 140.66E–.05 16–7 3.6b,3.5b
JMA IV 15 02 54 04.4 37.01N 140.59E 6–1 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=45.8km s-min=32.5km az=34.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=12.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s281.00000°,δ70.00000°,λ-92.00000°. NP2:ϕ_s107.00000°,δ20.00000°,λ-84.00000°. Principal axes: T Plg25.0000°,Azm13.0000°; N Plg2.0000°,Azm282.0000°; P Plg65.0000° ,Azm188.0000°
ISC IV 15 02 58 51.3–1.3 37.01N–.03 140.52E–.04 2–9 3.7b 33 0-147
NIED IV 15 02 58 00 37.00N 140.60E 5 4.0W **¶16505386**
ISCJB IV 15 02 58 52.2–.57 37.03N–.03 140.71E–.05 17–4 3.7b
JMA IV 15 02 58 52.7 37.03N 140.62E 8–1 4.0
IDC IV 15 02 58 58.6–3.5 37.03N 140.37E 55–32 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ40.00000°,λ-127.00000°. NP2:ϕ_s332.00000°,δ59.00000°,λ-63.00000°. $M_0$1.09000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=12.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ60.00000°,λ-93.00000°. NP2:ϕ_s136.00000°,δ30.00000°,λ-85.00000°. Principal axes: T Plg15.0000°,Azm42.0000°; N Plg3.0000°,Azm311.0000°; P Plg75.0000° ,Azm211.0000°
IDC Error ellipse: s-maj=22.4km s-min=17.0km az=81.0.
JMA IV 15 03 32 35.2 37.74N 139.94E 8–1 1.9
¶600588454
JMA IV 15 03 49 00.5–.10 36.82N 138.62E 3–3 1.2
¶600588475
ISC IV 15 04 12 56.2–1.1 37.03N–.04 140.69E–.05 13–9 16 0-57
IDC IV 15 04 12 53.8–2.6 37.00N 140.84E 0 3.7,3.5b **¶600588493**
ISCJB IV 15 04 12 55.7–.95 36.99N–.04 140.84E–.10 22–5 3.4b,3.5b
JMA IV 15 04 12 56.7 37.03N 140.62E 9–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=33.7km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.2km az=17.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s317.00000°,δ47.00000°,λ-75.00000°. NP2:ϕ_s115.00000°,δ45.00000°,λ-106.00000°. Principal axes: T Plg1.0000°,Azm36.0000°; N Plg11.0000°,Azm126.0000°; P Plg79.0000° ,Azm301.0000°
ISC IV 15 05 15 03.3–.92 37.00N–.03 140.69E–.04 10–6 4.0b 32 0-147
NIED IV 15 05 15 00 37.00N 140.70E 5 3.6W **¶600588543**
IDC IV 15 05 15 01.7–.89 37.05N 140.68E 0 3.9,3.8b
ISCJB IV 15 05 15 02.5–.62 37.00N–.03 140.82E–.05 17–4 3.9b,3.8b
JMA IV 15 05 15 03.4 37.01N 140.70E 7–1 3.7,3.8b
NEIC IV 15 05 15 08.0–2.1 36.97N 140.59E 45–18 4.4b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ37.00000°,λ-110.00000°. NP2:ϕ_s91.00000°,δ56.00000°,λ-76.00000°. $M_0$2.88000×10^{14}
IDC Error ellipse: s-maj=22.6km s-min=20.2km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.9km az=27.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s263.00000°,δ56.00000°,λ-105.00000°. NP2:ϕ_s108.00000°,δ36.00000°,λ-69.00000°. Principal axes: T Plg10.0000°,Azm3.0000°; N Plg12.0000°,Azm271.0000°; P Plg74.0000° ,Azm132.0000°
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=11.1km az=62.0.
ISC IV 15 05 48 40.8–.95 37.02N–.03 140.70E–.04 9–6 3.6b 28 0-147
NIED IV 15 05 48 00 37.00N 140.70E 5 3.7W **¶17201093**
ISCJB IV 15 05 48 39.6–1.7 37.01N–.03 140.81E–.05 11–11 3.6b
IDC IV 15 05 48 39.2–.75 37.00N 140.74E 0 3.9,3.8
JMA IV 15 05 48 40.6 37.02N 140.69E 7–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ35.00000°,λ-73.00000°. NP2:ϕ_s251.00000°,δ57.00000°,λ-101.00000°. $M_0$4.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=18.8.
IDC Error ellipse: s-maj=22.4km s-min=17.9km az=138.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s100.00000°,δ52.00000°,λ-74.00000°. NP2:ϕ_s255.00000°,δ41.00000°,λ-110.00000°. Principal axes: T Plg6.0000°,Azm179.0000°; N Plg13.0000°,Azm270.0000°; P Plg76.0000° ,Azm65.0000°
ISC IV 15 06 27 58.4–1.4 36.93N–.06 138.51E–.05 6–11 13 0-57
IDC IV 15 06 27 57.7–1.5 36.93N 138.56E 0 3.8,3.4 **¶17201097**
ISCJB IV 15 06 27 58.1–.97 36.92N–.06 138.51E–.08 19–10 3.5b,3.4
JMA IV 15 06 27 58.4 36.91N 138.55E 0 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=8.3km az=28.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.4km az=136.1.
JMA Event type fe.
ISC IV 15 07 03 55.8–1.0 36.72N–.05 138.67E–.03 11–7 3.5b 23 0-77
NIED IV 15 07 03 00 36.80N 138.60E 5 3.9W **¶17201100**
ISCJB IV 15 07 03 54.2–.56 36.82N–.03 138.61E–.04 9–4 3.4b
JMA IV 15 07 03 54.5–.20 36.82N 138.62E 1–3 3.5
IDC IV 15 07 03 55.2–1.0 36.61N 138.71E 0 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ39.00000°,λ-168.00000°. NP2:ϕ_s178.00000°,δ83.00000°,λ-52.00000°. $M_0$8.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=141.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s187.00000°,δ80.00000°,λ-16.00000°. NP2:ϕ_s280.00000°,δ75.00000°,λ-170.00000°. Principal axes: T Plg4.0000°,Azm234.0000°; N Plg72.0000°,Azm336.0000°; P Plg18.0000° ,Azm143.0000°
IDC Error ellipse: s-maj=24.5km s-min=7.9km az=167.0.
ISC IV 15 08 05 53.4–1.0 37.01N–.03 140.71E–.04 7–7 3.5b 29 0-64
IDC IV 15 08 05 52.0–.93 36.96N 140.79E 0 3.5,3.4 **¶17201105**
JMA IV 15 08 05 53.1 37.02N 140.69E 7–1 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=19.6km az=135.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s259.00000°,δ51.00000°,λ-99.00000°. NP2:ϕ_s93.00000°,δ40.00000°,λ-79.00000°. Principal axes: T Plg6.0000°,Azm355.0000°; N Plg7.0000°,Azm264.0000°; P Plg81.0000° ,Azm125.0000°

JMA IV 15 08 59 16.2 37.04N 140.79E 10–1 2.6
¶600588691
JMA IV 15 09 16 45.5 37.06N 140.64E 14–1 2.9
¶17201114
JMA IV 15 11 02 22.7 37.05N 140.80E 8–1 2.5
¶600588771
ISC IV 15 11 16 53.9–.94 37.04N–.03 140.64E–.04 10–8 22 0-57
IDC IV 15 11 16 52.1–1.8 37.00N 140.70E 0 3.5,3.4 **¶17201125**
ISCJB IV 15 11 16 53.5–.55 37.03N–.03 140.73E–.07 15–6 3.2b,3.4
JMA IV 15 11 16 53.8 37.04N 140.64E 8–1 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=27.9km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.5km az=21.1.
JMA Event type fe.
JMA IV 15 14 22 23.4 36.71N 137.87E 3–1 0.4
¶600588922
JMA IV 15 14 37 59.6 37.00N 140.60E 8–1 3.5
¶600588938
JMA Event type fe.
ISC IV 15 14 48 13.7–1.2 37.13N–.03 140.88E–.06 7–6 3.3b 22 0-61
ISCJB IV 15 14 48 12.0–.98 37.12N–.03 140.99E–.06 7–4 3.2b **¶17201137**
IDC IV 15 14 48 11.8–1.8 37.08N 141.07E 0 3.5,3.3L
JMA IV 15 14 48 13.7 37.14N 140.87E 8 3.5,3.3L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.3km az=13.4.
IDC Error ellipse: s-maj=41.7km s-min=23.6km az=53.0.
JMA Event type fe.
JMA IV 15 16 21 10.0 37.00N 140.82E 7–1 1.8
¶600589041
JMA IV 15 16 21 37.3 36.84N 138.68E 6–2 1.3
¶600589044
ISC IV 15 18 04 35.4–1.5 37.1N–.10 140.58E–.07 5–14 10 0-57
IDC IV 15 18 04 34.2–2.6 37.20N 140.78E 0 3.7,3.7b **¶17201158**
JMA IV 15 18 04 36.5 37.05N 140.66E 7–1 2.6,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=44.5km s-min=34.3km az=36.0.
JMA IV 15 20 32 32.8 37.00N 140.62E 8–1 2.6
¶600589226
JMA IV 15 22 18 18.8 37.01N 140.74E 21–1 2.4
¶600589304
JMA IV 15 22 46 39.2 37.73N 139.93E 8–1 2.2
¶600589332
ISC IV 16 02 19 30.8–.24 36.39N–.02 139.85E–.02 78–1 6.0b 2519 0-166
NIED IV 16 02 19 00 36.40N 140.00E 80 5.8W **¶16440099**
MOS IV 16 02 19 24.1–.76 36.38N 139.72E 31 6.4b,5.2s
BJI IV 16 02 19 26.9 36.30N 139.90E 71 5.7b,5.7b
NEIC IV 16 02 19 29.0–.00 36.20N 140.08E 80 5.7b,5.7b
GCMT IV 16 02 19 30.8–.10 36.40N 140.00E 81–0 5.8W,5.7b
NEIC IV 16 02 19 30.8–.07 36.38N 139.65E 77 5.9b,5.8
IDC IV 16 02 19 31.2–.32 36.35N 139.79E 81–2 6.1,5.8
JMA IV 16 02 19 31.6 36.34N 139.95E 79–1 5.9,5.8
ISCJB IV 16 02 19 31.1–.15 36.35N–.01 139.78E–.01 91–1 5.9b,5.8
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ24.00000°,λ37.00000°. NP2:ϕ_s38.00000°,δ76.00000°,λ110.00000°. $M_0$5.02000×10^{17}
NEIC Event type se. Moment Tensor Solution. s44 Moment tensor: Scale 10^{17}Nm; M_{rr}2.30 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-2.70 $M_{r\theta}$3.30 $M_{\theta\phi}$-1.10 $M_{\phi r}$3.80 Best double couple: NP1:ϕ_s38.00000° ,δ77.00000°,λ102.00000°. NP2:ϕ_s173.00000°,δ18.00000°,λ45.00000°. Principal axes: T 5.6000,Plg56.0000°,Azm325.0000°; N 0.2000,Plg12.0000°,Azm215.0000° ; P -5.8000,Plg30.0000°,Azm118.0000° $M_0$6.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c248; s127,c342;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}3.34±.05 $M_{\theta\theta}$0.44±.05; $M_{\phi\phi}$-3.77±.05; $M_{r\theta}$3.17±.04; $M_{\theta\phi}$-1.13±.05; $M_{\phi r}$2.95±.04; Best double couple: NP1:ϕ_s38.00000°,δ71.00000°,λ109.00000°. NP2:ϕ_s171.00000° ,δ27.00000°,λ46.00000°. Principal axes: T 5.7790,Plg59.0000°,Azm336.0000° ; N -0.0960,Plg18.0000°,Azm212.0000°; P -5.6750,Plg24.0000°,Azm113.0000° $M_0$5.72700×10^{17}
NEIC Event type fe. Felt [IV] at Narita, Tokyo and Zushi and [III] at Atsugi, Yokohama and Yokosuka. Felt in much of Chiba, eastern Saitama, Kanagawa, southern Ibaraki and Tokyo. Recorded [5U JMA] in Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s67 Moment tensor: Scale 10^{17}Nm; M_{rr}4.44 $M_{\theta\theta}$-0.53 $M_{\phi\phi}$-3.91 $M_{r\theta}$3.68 $M_{\theta\phi}$-0.96 $M_{\phi r}$2.91 Best double couple: NP1:ϕ_s181.00000°,δ26.00000°,λ54.00000°. NP2:ϕ_s39.00000° ,δ69.00000°,λ106.00000°. Principal axes: T 6.8400,Plg62.0000°,Azm334.0000° ; N -1.0600,Plg15.0000°,Azm214.0000°; P -5.7700,Plg23.0000°,Azm117.0000° $M_0$6.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s186.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s40.00000°,δ75.00000°,λ100.00000°. Principal axes: T Plg59.0000°,Azm324.0000°; N Plg0.0000°,Azm0.0000°; P Plg29.0000° ,Azm122.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000° ,δ64.00000°,λ100.00000°. NP2:ϕ_s179.00000°,δ27.00000°,λ70.00000°. Principal axes: T Plg69.0000°,Azm312.0000°; N Plg9.0000°,Azm197.0000°; P Plg19.0000°,Azm104.0000°
ISCJB Event type fe.
JMA IV 16 07 28 31.4 37.04N 140.66E 7–1 2.6
¶602557519
ISC IV 16 07 29 55.0–.92 37.03N–.03 140.62E–.04 15–6 3.5b 28 0-78
NIED IV 16 07 29 00 37.00N 140.60E 8 4.0W **¶17201197**
ISCJB IV 16 07 29 54.5–.45 37.02N–.03 140.69E–.05 24–3 3.6b
JMA IV 16 07 29 55.1 37.03N 140.61E 15–1 4.1
IDC IV 16 07 30 01.2–3.5 37.16N 140.66E 63–32 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ11.00000°,λ24.00000°. NP2:ϕ_s52.00000°,δ85.00000°,λ100.00000°. $M_0$1.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=23.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ69.00000°,λ108.00000°. NP2:ϕ_s187.00000°,δ28.00000°,λ51.00000°. Principal axes: T Plg62.0000°,Azm348.0000°; N Plg17.0000°,Azm223.0000°; P Plg22.0000° ,Azm126.0000°
IDC Error ellipse: s-maj=25.8km s-min=17.2km az=109.0.
JMA IV 16 09 14 43.9 37.05N 140.78E 11 2.6
¶600589658
JMA IV 16 11 03 06.3–.10 36.34N 139.94E 76–1 1.6
¶600589726
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 16 18 15 39.5 37.10N 140.63E 14–1 2.9
¶600590068
JMA IV 16 20 19 15.1 37.70N 139.96E 9–1 1.4
¶602557520
ISC IV 16 20 19 16.9–.89 37.09N–.03 140.88E–.04 13–5 4.6b,4.3s 228 0-147
NIED IV 16 20 19 00 37.10N 140.90E 5 4.2W,4.3s **¶602557523**
ISCJB IV 16 20 19 15.7–.75 37.09N–.03 140.88E–.04 14–4 4.5b,4.1s
IDC IV 16 20 19 15.0–.48 37.08N 140.82E 0 4.3,4.3b
BJI IV 16 20 19 16.9 36.87N 140.97E 34 4.9b,4.5b
JMA IV 16 20 19 16.4 37.10N 140.83E 8–1 4.5,4.5b
MOS IV 16 20 19 17.6–1.1 37.15N 140.82E 25 4.8b,4.5b
NEIC IV 16 20 19 18.9–1.3 37.09N 140.85E 25–9 4.7b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ26.00000°,λ-77.00000°. NP2:ϕ_s241.00000°,δ64.00000°,λ-96.00000°. $M_0$2.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=33.0.
IDC Error ellipse: s-maj=14.5km s-min=10.7km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s238.00000°,δ58.00000°,λ-98.00000°. NP2:ϕ_s74.00000°,δ32.00000°,λ-77.00000°. Principal axes: T Plg13.0000°,Azm334.0000°; N Plg7.0000°,Azm242.0000°; P Plg75.0000° ,Azm125.0000°
MOS Error ellipse: s-maj=8.1km s-min=5.6km az=110.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=129.0. Recorded [3 JMA] in Fukushima and Ibaraki.
JMA IV 16 23 01 23.1 37.02N 140.59E 7–1 3.5
¶600590290
JMA Event type fe.

ISC IV 17 05 38 47.5–.92 37.02N–.03 140.62E–.03 8–6 4.4b,3.4s 167 0-152
NIED IV 17 05 38 00 37.00N 140.70E 5 4.2W,3.4s **¶16442676**
ISCJB IV 17 05 38 47.5–.39 37.01N–.02 140.70E–.03 19–2 4.3b,3.5s
JMA IV 17 05 38 47.7 37.01N 140.68E 7–1 4.5,3.5s
MOS IV 17 05 38 49.3–1.2 37.01N 140.70E 32 4.7b,3.5s
NEIC IV 17 05 38 52.8–.57 37.00N 140.57E 48–5 4.4b,3.5s
BJI IV 17 05 38 52.5 36.89N 139.92E 25 4.8b,4.3b
IDC IV 17 05 38 53.4–1.6 36.98N 140.58E 56–14 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ39.00000°,λ-90.00000°. NP2:ϕ_s227.00000°,δ51.00000°,λ-90.00000°. $M_0$2.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=30.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s66.00000°,δ51.00000°,λ-71.00000°. NP2:ϕ_s218.00000°,δ43.00000°,λ-111.00000°. Principal axes: T Plg4.0000°,Azm143.0000°; N Plg14.0000°,Azm234.0000°; P Plg75.0000°,Azm37.0000°
MOS Error ellipse: s-maj=8.8km s-min=6.0km az=102.8.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.5km az=126.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=80.0.
ISC IV 17 08 03 47.0–.85 37.05N–.04 140.74E–.03 9–5 4.2b,3.5s 90 0-147
NIED IV 17 08 03 00 37.10N 140.80E 5 4.1W,3.5s **¶602557559**
ISCJB IV 17 08 03 46.6–.77 37.07N–.02 140.80E–.04 15–5 4.2b,3.6s
JMA IV 17 08 03 47.0 37.09N 140.72E 9–1 4.3,3.6s
NEIC IV 17 08 03 51.6–.70 36.99N 140.67E 42–7 4.4b,3.6s
IDC IV 17 08 03 51.2–2.6 37.09N 140.65E 37–22 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ31.00000°,λ-103.00000°. NP2:ϕ_s211.00000°,δ60.00000°,λ-82.00000°. $M_0$1.38000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=28.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ71.00000°,λ-86.00000°. NP2:ϕ_s39.00000°,δ19.00000°,λ-101.00000°. Principal axes: T Plg26.0000°,Azm317.0000°; N Plg4.0000°,Azm49.0000°; P Plg64.0000°,Azm146.0000°
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=6.0km az=114.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.5km s-min=11.8km az=94.0.
ISC IV 17 10 07 14.3–.90 37.07N–.04 140.73E–.04 10–7 3.3b 24 0-61
IDC IV 17 10 07 12.4–1.8 37.04N 140.87E 0 3.5,3.4b **¶17201304**
ISCJB IV 17 10 07 14.1–.65 37.08N–.03 140.82E–.06 16–4 3.3b,3.4b
JMA IV 17 10 07 14.9 37.09N 140.72E 8–1 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=22.9km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.7km az=16.1.
JMA Event type fe.
ISC IV 17 12 51 42.1–.94 37.07N–.03 140.70E–.03 2–5 4.6b,3.7s 306 0-151
NIED IV 17 12 51 00 37.10N 140.70E 5 4.3W,3.7s **¶16442683**
IDC IV 17 12 51 41.3–.45 37.06N 140.69E 0 4.4,4.3
ISCJB IV 17 12 51 42.2–.42 37.07N–.02 140.71E–.02 10–2 4.5b,3.7s
JMA IV 17 12 51 42.5 37.07N 140.73E 8–1 4.6,3.7s
BJI IV 17 12 51 43.0 36.98N 140.62E 19 4.8b,4.4b
MOS IV 17 12 51 45.3–.98 37.37N 140.61E 23 4.8b,4.4b
NEIC IV 17 12 51 45.9–1.2 37.09N 140.61E 24–8 4.7b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ33.00000°,λ-43.00000°. NP2:ϕ_s183.00000°,δ68.00000°,λ-115.00000°. $M_0$3.37000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=10.8km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.8km az=139.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ65.00000°,λ-102.00000°. NP2:ϕ_s30.00000°,δ28.00000°,λ-67.00000°. Principal axes: T Plg19.0000°,Azm283.0000°; N Plg11.0000°,Azm189.0000°; P Plg68.0000°,Azm72.0000°
MOS Error ellipse: s-maj=7.7km s-min=5.5km az=86.4.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=135.0. Recorded [3 JMA] in Fukushima.
ISC IV 17 14 42 25.6–1.0 37.05N–.03 140.59E–.05 7–7 3.6b 30 0-147
NIED IV 17 14 42 00 37.00N 140.70E 5 3.7W **¶17201328**
IDC IV 17 14 42 24.5–.64 37.03N 140.58E 0 3.9,3.8
ISCJB IV 17 14 42 25.4–.57 37.01N–.03 140.80E–.07 17–4 3.6b,3.4s
JMA IV 17 14 42 25.9 37.02N 140.68E 7–1 3.8,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ39.00000°,λ-86.00000°. NP2:ϕ_s239.00000°,δ52.00000°,λ-93.00000°. $M_0$3.41000×10^{14}
IDC Error ellipse: s-maj=18.3km s-min=15.2km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.8km az=13.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ50.00000°,λ-105.00000°. NP2:ϕ_s252.00000°,δ42.00000°,λ-73.00000°. Principal axes: T Plg4.0000°,Azm150.0000°; N Plg11.0000°,Azm59.0000°; P Plg78.0000°,Azm259.0000°
ISC IV 17 14 46 51.3–1.2 37.06N–.03 140.97E–.05 4–7 4.3b,3.2s 155 0-147
NIED IV 17 14 46 00 37.10N 140.80E 5 4.1W,3.2s **¶16442685**
ISCJB IV 17 14 46 50.8–.71 37.08N–.03 140.97E–.04 12–4 4.2b,3.4s
IDC IV 17 14 46 50.4–.56 37.02N 140.90E 0 4.2,4.1
BJI IV 17 14 46 50.7 36.84N 140.76E 8 4.8b,4.5b
JMA IV 17 14 46 52.0 37.09N 140.83E 7–1 4.5,4.5b
MOS IV 17 14 46 52.8–1.2 37.06N 140.91E 27 4.6b,4.5b
NEIC IV 17 14 46 53.7–2.2 37.08N 140.92E 19–13 4.6b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ23.00000°,λ-69.00000°. NP2:ϕ_s235.00000°,δ69.00000°,λ-99.00000°. $M_0$1.63000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=26.1.
IDC Error ellipse: s-maj=15.4km s-min=13.4km az=86.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s219.00000°,δ60.00000°,λ-106.00000°. NP2:ϕ_s70.00000°,δ34.00000°,λ-64.00000°. Principal axes: T Plg14.0000°,Azm321.0000°; N Plg14.0000°,Azm227.0000°; P Plg70.0000°,Azm93.0000°
MOS Error ellipse: s-maj=9.3km s-min=6.2km az=106.5.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.4km az=106.0. Recorded [4 JMA] in Fukushima.
JMA IV 17 20 20 31.7 37.80N 140.00E 9–1 2.0
¶16505418
ISC IV 18 02 08 13.5–.93 37.10N–.03 140.58E–.04 12–6 4.4b 138 0-147
NIED IV 18 02 08 00 37.10N 140.70E 5 4.1W **¶16443582**
IDC IV 18 02 08 12.1–.56 37.10N 140.56E 0 4.4,4.3L
JMA IV 18 02 08 13.5 37.09N 140.66E 8–1 4.2,4.3L
MOS IV 18 02 08 13.5–1.1 37.19N 140.64E 23 4.6b,4.3L
ISCJB IV 18 02 08 13.4–.45 37.11N–.03 140.65E–.03 22–3 4.3b,3.1s
NEIC IV 18 02 08 18.3–.61 37.17N 140.50E 43–5 4.5b,3.1s
BJI IV 18 02 08 18.2 37.05N 140.56E 62 4.7b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ29.00000°,λ-62.00000°. NP2:ϕ_s150.00000°,δ64.00000°,λ-105.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=13.3km az=108.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s161.00000°,δ50.00000°,λ-101.00000°. NP2:ϕ_s358.00000°,δ42.00000°,λ-78.00000°. Principal axes: T Plg4.0000°,Azm259.0000°; N Plg8.0000°,Azm168.0000°; P Plg81.0000°,Azm15.0000°
MOS Error ellipse: s-maj=10.2km s-min=6.0km az=85.9.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=43.4.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.4km az=139.0. Recorded [4 JMA] in Fukushima.
JMA IV 18 05 54 25.3 37.02N 140.69E 10–1 3.6
¶600591319
JMA Event type fe.
JMA IV 18 12 16 57.9 37.08N 140.67E 13–1 3.2
¶600591597
JMA Event type fe.
ISC IV 18 15 07 56.4–.81 37.26N–.03 140.80E–.05 10–5 4.1b 70 0-147
ISCJB IV 18 15 07 54.7–.71 37.25N–.03 141.04E–.04 11–4 4.0b **¶16446638**
IDC IV 18 15 07 54.9–.66 37.31N 140.88E 0 4.1,4.0
JMA IV 18 15 07 55.9 37.23N 140.93E 7 4.1,4.0
MOS IV 18 15 07 57.1–1.1 37.32N 140.99E 24 4.4b,4.0
NEIC IV 18 15 07 58.2–1.6 37.31N 140.89E 21–12 4.4b,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=25.4.
IDC Error ellipse: s-maj=18.9km s-min=14.3km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s187.00000°,δ61.00000°,λ-111.00000°. NP2:ϕ_s45.00000°,δ35.00000°,λ-57.00000°. Principal axes: T Plg14.0000°,Azm292.0000°; N Plg18.0000°,Azm197.0000°; P Plg67.0000°,Azm57.0000°
MOS Error ellipse: s-maj=10.9km s-min=7.7km az=93.6.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=114.0. Recorded [3 JMA] in Fukushima.
JMA IV 18 17 36 57.9 35.77N 138.03E 10 1.4
¶602557566
ISC IV 18 19 14 28.1–.88 39.61N–.03 140.37E–.03 9–5 4.6b,4.0s 184 0-146
NIED IV 18 19 14 00 39.60N 140.40E 5 4.7W,4.0s **¶602557579**
BJI IV 18 19 14 23.3 39.45N 140.65E 10 4.7b,4.5b
IDC IV 18 19 14 26.6–.53 39.64N 140.19E 0 4.5,4.4
JMA IV 18 19 14 27.2 39.60N 140.39E 6–1 4.9,4.4
ISCJB IV 18 19 14 27.2–.47 39.60N–.02 140.32E–.03 13–3 4.5b,4.0s
MOS IV 18 19 14 30.7–1.2 39.68N 140.18E 37 4.7b,4.0s
NEIC IV 18 19 14 32.6–.66 39.67N 140.25E 37–6 4.6b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ49.00000°,λ178.00000°. NP2:ϕ_s79.00000°,δ89.00000°,λ41.00000°. $M_0$1.27000×10^{16}
IDC Error ellipse: s-maj=15.6km s-min=11.9km az=110.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s93.00000°,δ78.00000°,λ19.00000°. NP2:ϕ_s359.00000°,δ72.00000°,λ167.00000°. Principal axes: T Plg22.0000°,Azm317.0000°; N Plg68.0000°,Azm125.0000°; P Plg4.0000°,Azm225.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.4km az=16.4.
MOS Error ellipse: s-maj=7.6km s-min=4.8km az=88.1.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=128.0. Recorded [5L JMA] in Akita.
JMA IV 18 21 09 36.2 37.05N 140.80E 8–1 2.6
¶600591941
JMA IV 18 23 48 27.3 37.01N 140.70E 12–1 2.7
¶600592060
JMA IV 19 00 46 14.7 36.96N 138.57E 10–1 1.0
¶16505435
ISC IV 19 06 53 33.0–.84 37.07N–.03 140.59E–.03 10–5 4.6b,3.9s 305 0-147
NIED IV 19 06 53 00 37.00N 140.70E 5 4.5W,3.9s **¶16446651**
BJI IV 19 06 53 31.5 36.98N 140.67E 14 4.8b,4.6b
JMA IV 19 06 53 32.7 37.02N 140.65E 7–1 4.6,4.6b
ISCJB IV 19 06 53 33.2–.42 37.07N–.02 140.54E–.03 18–3 4.6b,4.0s
MOS IV 19 06 53 34.8–1.1 37.15N 140.52E 29 4.8b,4.0s
IDC IV 19 06 53 37.4–1.9 37.05N 140.56E 42–17 4.5,4.4
NEIC IV 19 06 53 37.8–.56 37.07N 140.45E 39–5 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ27.00000°,λ-69.00000°. NP2:ϕ_s200.00000°,δ65.00000°,λ-100.00000°. $M_0$5.52000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s189.00000°,δ63.00000°,λ-97.00000°. NP2:ϕ_s24.00000°,δ28.00000°,λ-76.00000°. Principal axes: T Plg18.0000°,Azm284.0000°; N Plg6.0000°,Azm192.0000°; P Plg71.0000°,Azm83.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=44.7.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=87.3.
IDC Error ellipse: s-maj=13.5km s-min=9.8km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=140.0. Recorded [3 JMA] in Fukushima.
JMA IV 19 06 59 41.9 37.02N 140.66E 5–1 3.0
¶600592412
JMA Event type fe.
JMA IV 19 08 00 33.9 37.00N 140.51E 7–1 2.6
¶600592479
JMA IV 19 10 08 27.3 37.03N 140.66E 7–1 2.7
¶600592593
ISC IV 19 12 34 26.6–.97 37.07N–.03 140.65E–.03 9–6 3.9b 51 0-147
NIED IV 19 12 34 00 37.10N 140.70E 8 3.8W **¶602557609**
IDC IV 19 12 34 25.1–.63 37.08N 140.66E 0 4.1,4.0s
ISCJB IV 19 12 34 26.3–.49 37.08N–.02 140.76E–.04 18–3 4.1s,3.9b
JMA IV 19 12 34 26.7 37.07N 140.67E 9–1 4.1,3.9b
NEIC IV 19 12 34 30.4–.82 37.10N 140.66E 35–7 4.2b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ25.00000°,λ-117.00000°. NP2:ϕ_s157.00000°,δ68.00000°,λ-78.00000°. $M_0$4.97000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=13.9km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.5km az=23.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s148.00000°,δ55.00000°,λ-97.00000°. NP2:ϕ_s341.00000°,δ35.00000°,λ-79.00000°. Principal axes: T Plg10.0000°,Azm243.0000°; N Plg6.0000°,Azm152.0000°; P Plg78.0000°,Azm32.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=5.9km az=132.0. Recorded [3 JMA] in Fukushima.
ISC IV 19 14 10 18.9–.38 36.17N–.03 139.81E–.03 57–3 5.1b,4.1s 1073 0-153
NIED IV 19 14 10 00 36.20N 139.80E 62 4.9W,4.1s **¶16447761**
BJI IV 19 14 10 13.9 35.98N 140.23E 65 4.9b,4.9b
MOS IV 19 14 10 17.6–.85 36.26N 139.68E 52 5.4b,4.9b
ISCJB IV 19 14 10 18.7–.25 36.14N–.02 139.69E–.02 64–2 5.1b,4.9b
IDC IV 19 14 10 19.6–1.2 36.17N 139.72E 58–10 5.0,4.8
JMA IV 19 14 10 20.0–.10 36.17N 139.81E 53–1 5.0,4.8
GCMT IV 19 14 10 20.1–.20 36.18N 139.83E 64–1 4.9W,4.8
NEIC IV 19 14 10 20.1–.33 36.16N 139.63E 64–2 5.0b,4.8
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ26.00000°,λ101.00000°. NP2:ϕ_s48.00000°,δ65.00000°,λ85.00000°. $M_0$2.40000×10^{16}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=106.7.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=151.9.
IDC Error ellipse: s-maj=10.7km s-min=6.5km az=81.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s43.00000°,δ57.00000°,λ81.00000°. NP2:ϕ_s240.00000°,δ34.00000°,λ104.00000°. Principal axes: T Plg76.0000°,Azm286.0000°; N Plg8.0000°,Azm48.0000°; P Plg12.0000°,Azm140.0000°
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s71,c116; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.87±.11 $M_{\theta\theta}$-2.12±.10; $M_{\phi\phi}$-0.75±.10; $M_{r\theta}$1.04±.08; $M_{\theta\phi}$-1.24±.07; $M_{\theta r}$1.00±.07; Best double couple: NP1:ϕ_s54.00000°,δ58.00000°,λ84.00000°. NP2:ϕ_s245.00000°,δ32.00000°,λ100.00000°. Principal axes: T 3.2280,Plg76.0000°,Azm306.0000°; N -0.0500,Plg5.0000°,Azm57.0000°; P -3.1800,Plg13.0000°,Azm148.0000° $M_0$3.20400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=145.0. Felt [II] at Tokyo. Also felt at Agui and Oyama. Recorded [4 JMA] in Ibaraki, Saitama and Tochigi.
IDC IV 19 15 00 50.5–1.2 36.88N 139.95E 0 3.7,3.7L
¶17201511
IDC Error ellipse: s-maj=30.2km s-min=22.8km az=108.0.
JMA IV 19 22 46 56.1 36.98N 138.64E 9–2 1.6
¶600593244
ISC IV 20 00 50 50.1–.85 37.06N–.02 140.59E–.03 10–5 4.8b,4.1s 554 0-161
NIED IV 20 00 50 00 37.00N 140.70E 5 4.5W,4.1s **¶16448734**
IDC IV 20 00 50 48.6–.37 37.06N 140.55E 0 4.8,4.7
JMA IV 20 00 50 49.9 37.03N 140.68E 7–1 4.8,4.7
ISCJB IV 20 00 50 50.8–.48 37.12N–.02 140.53E–.03 19–3 4.7b,4.0s
BJI IV 20 00 50 51.0 37.20N 140.60E 10 4.9b,4.6b
NEIC IV 20 00 50 54.6–.45 37.05N 140.46E 37–4 4.8b,4.6b
MOS IV 20 00 50 56.2–.83 37.49N 140.49E 49 5.0b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ39.00000°,λ-84.00000°. NP2:ϕ_s229.00000°,δ51.00000°,λ-95.00000°. $M_0$6.36000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=9.6km az=98.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ52.00000°,λ-75.00000°. NP2:ϕ_s32.00000°,δ40.00000°,λ-108.00000°. Principal axes: T Plg6.0000°,Azm315.0000°; N Plg12.0000°,Azm46.0000°; P Plg77.0000°,Azm199.0000°

ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=144.8.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=148.0. Recorded [3 JMA] in Fukushima and Ibaraki.
MOS Error ellipse: s-maj=6.9km s-min=4.4km az=99.8.
ISC IV 20 01 31 46.9–1.0 37.01N–.03 140.69E–.05 11–8 17 0-61
ISCJB IV 20 01 31 46.0–.81 36.98N–.04 140.83E–.08 16–6 3.6b **¶17201569**
IDC IV 20 01 31 45.8–4.4 36.93N 140.75E 0 3.7,3.5b
JMA IV 20 01 31 46.8 37.01N 140.67E 7–1 3.2,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.1km az=14.8.
IDC Error ellipse: s-maj=86.1km s-min=31.3km az=16.0.
ISC IV 20 04 22 36.8–1.1 37.05N–.04 140.81E–.07 11–6 19 0-57
NIED IV 20 04 22 00 37.00N 140.80E 5 3.5W **¶600593435**
IDC IV 20 04 22 34.7–2.3 36.89N 140.97E 0 3.8,3.6b
ISCJB IV 20 04 22 36.6–.98 37.04N–.04 140.85E–.07 9–4 3.5b,3.6b
JMA IV 20 04 22 37.2 37.05N 140.80E 9–1 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ18.00000°,λ-38.00000°. NP2:ϕ_s213.00000°,δ79.00000°,λ-105.00000°. $M_0$1.99000×10^{14}
IDC Error ellipse: s-maj=41.7km s-min=27.4km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.5km az=15.0.
JMA Event type fe.
ISC IV 20 09 27 19.7–.99 39.60N–.03 140.66E–.04 11–7 4.1b 25 0-80
NIED IV 20 09 27 00 39.60N 140.70E 11 3.4W **¶16450222**
ISCJB IV 20 09 27 19.1–.59 39.62N–.03 140.66E–.05 19–6 3.9b
JMA IV 20 09 27 19.2 39.62N 140.62E 4–1 3.8
IDC IV 20 09 27 22.8–5.8 39.63N 140.42E 33–46 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ22.00000°,λ90.00000°. NP2:ϕ_s248.00000°,δ68.00000°,λ90.00000°. $M_0$1.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.1km az=9.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s234.00000°,δ86.00000°,λ86.00000°. NP2:ϕ_s102.00000°,δ6.00000°,λ138.00000°. Principal axes: T Plg49.0000°,Azm139.0000°; N Plg4.0000°,Azm234.0000°; P Plg41.0000° ,Azm328.0000°
IDC Error ellipse: s-maj=31.9km s-min=17.4km az=99.0.
ISC IV 20 15 00 23.4–1.3 37.02N–.04 140.91E–.06 9–7 3.6b 31 0-74
NIED IV 20 15 00 00 37.00N 140.80E 5 3.6W **¶16505454**
ISCJB IV 20 15 00 21.9–.88 37.02N–.03 141.00E–.06 11–4 3.7b
JMA IV 20 15 00 23.9 37.04N 140.84E 9–1 3.8
IDC IV 20 15 00 27.4–1.7 36.98N 140.96E 43–16 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ39.00000°,λ-121.00000°. NP2:ϕ_s55.00000°,δ57.00000°,λ-67.00000°. $M_0$3.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.7km az=18.2.
JMA Event type fe.
IDC Error ellipse: s-maj=14.9km s-min=10.5km az=92.0.
ISC IV 20 18 41 05.3–1.1 37.08N–.03 140.61E–.04 6–7 3.9b 31 0-147
NIED IV 20 18 41 00 37.10N 140.70E 5 3.8W **¶16450226**
ISCJB IV 20 18 41 05.2–.54 37.06N–.03 140.77E–.05 15–4 3.9b
JMA IV 20 18 41 05.7 37.07N 140.68E 8–1 3.9
IDC IV 20 18 41 12.3–3.4 37.01N 140.45E 59–30 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ38.00000°,λ-104.00000°. NP2:ϕ_s177.00000°,δ54.00000°,λ-80.00000°. $M_0$5.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.9km az=34.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s208.00000°,δ57.00000°,λ-100.00000°. NP2:ϕ_s45.00000°,δ35.00000°,λ-76.00000°. Principal axes: T Plg11.0000°,Azm305.0000°; N Plg8.0000°,Azm213.0000°; P Plg76.0000° ,Azm89.0000°
IDC Error ellipse: s-maj=23.5km s-min=16.3km az=89.0.
ISC IV 20 19 25 02.5–1.1 39.62N–.03 140.44E–.04 8–8 3.6b 21 0-63
NIED IV 20 19 25 00 39.60N 140.40E 5 3.6W **¶16450228**
IDC IV 20 19 25 01.2–.97 39.54N 140.52E 0 3.6,3.4
ISCJB IV 20 19 25 02.0–.57 39.64N–.03 140.40E–.05 17–6 3.5b,3.4
JMA IV 20 19 25 02.3 39.63N 140.40E 4–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ60.00000°,λ169.00000°. NP2:ϕ_s87.00000°,δ80.00000°,λ31.00000°. $M_0$2.87000×10^{14}
IDC Error ellipse: s-maj=34.9km s-min=18.3km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.2km az=26.4.
JMA Event type fe.
ISC IV 20 20 51 55.6–.90 37.06N–.03 140.69E–.03 8–5 4.2b,3.5s 68 0-147
NIED IV 20 20 51 00 37.10N 140.70E 5 4.0W,3.5s **¶16450229**
IDC IV 20 20 51 54.6–.46 37.06N 140.63E 0 4.3,4.2
ISCJB IV 20 20 51 55.0–.45 37.06N–.02 140.77E–.04 17–3 4.1b,3.6s
JMA IV 20 20 51 55.5 37.07N 140.70E 8–1 4.3,3.6s
NEIC IV 20 20 51 58.5–1.9 37.04N 140.63E 27–13 4.4b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s225.00000°,δ65.00000°,λ-85.00000°. $M_0$1.29000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=10.5km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.7km az=21.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s249.00000°,δ72.00000°,λ-59.00000°. NP2:ϕ_s6.00000°,δ36.00000°,λ-149.00000°. Principal axes: T Plg21.0000°,Azm316.0000°; N Plg30.0000°,Azm59.0000°; P Plg52.0000° ,Azm196.0000°
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=4.9km az=125.0. Recorded [3 JMA] in Fukushima.
ISC IV 20 20 57 45.5–.97 37.08N–.04 140.66E–.05 8–10 21 0-61
ISCJB IV 20 20 57 45.3–1.1 37.05N–.03 140.81E–.07 14–9 3.9b **¶17201643**
JMA IV 20 20 57 45.9 37.06N 140.70E 7–1 3.2
IDC IV 20 20 57 50.0–2.3 36.27N 140.48E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.7km az=8.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ77.00000°,λ-87.00000°. NP2:ϕ_s25.00000°,δ13.00000°,λ-102.00000°. Principal axes: T Plg32.0000°,Azm305.0000°; N Plg3.0000°,Azm37.0000°; P Plg58.0000° ,Azm131.0000°
IDC Error ellipse: s-maj=41.5km s-min=25.3km az=46.0.
ISC IV 21 06 06 01.2–1.2 37.03N–.04 140.86E–.07 7–7 3.6b 19 0-69
ISCJB IV 21 06 05 59.6–.94 37.02N–.04 140.97E–.07 10–4 3.6b **¶17201677**
IDC IV 21 06 05 59.7–1.1 37.01N 140.91E 0 3.7,3.5
JMA IV 21 06 06 01.6 37.05N 140.79E 8–1 3.4,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.9km az=14.9.
IDC Error ellipse: s-maj=25.8km s-min=22.0km az=89.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s294.00000°,δ51.00000°,λ-105.00000°. NP2:ϕ_s138.00000°,δ41.00000°,λ-72.00000°. Principal axes: T Plg5.0000°,Azm35.0000°; N Plg12.0000°,Azm304.0000°; P Plg77.0000° ,Azm147.0000°
ISC IV 21 07 48 57.8–1.1 37.76N–.03 140.02E–.03 6–9 26 0-58
IDC IV 21 07 48 56.5–2.6 37.71N 140.15E 0 3.4,3.2 **¶17201693**
ISCJB IV 21 07 48 57.4–.50 37.77N–.02 140.03E–.03 8–4 3.2b,3.2
JMA IV 21 07 48 57.7 37.77N 140.02E 9–1 2.9,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=47.1km s-min=37.4km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=141.9.
ISC IV 21 18 09 45.3–1.1 37.02N–.03 140.57E–.04 5–11 21 0-61
ISCJB IV 21 18 09 45.1–.53 37.02N–.03 140.61E–.04 9–5 3.4b **¶17201731**
IDC IV 21 18 09 45.0–1.8 36.99N 140.62E 0 3.6,3.4
JMA IV 21 18 09 45.2 37.02N 140.58E 6–1 3.3,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=33.9.
IDC Error ellipse: s-maj=32.4km s-min=30.2km az=150.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s293.00000°,δ70.00000°,λ-106.00000°. NP2:ϕ_s152.00000°,δ25.00000°,λ-54.00000°. Principal axes: T Plg23.0000°,Azm35.0000°; N Plg15.0000°,Azm299.0000°; P Plg62.0000° ,Azm179.0000°
ISC IV 22 00 07 28.1–1.1 39.41N–.05 141.29E–.09 95–8 3.8b 22 0-43
IDC IV 22 00 07 02.9–7.1 37.67N 142.31E 0 3.8,3.8 **¶17201760**
ISCJB IV 22 00 07 27.5–.72 39.41N–.04 141.3E–.10 99–4 3.6b,3.8
JMA IV 22 00 07 28.6 39.43N 141.19E 92–1 3.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=132.2km s-min=49.1km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.3km az=5.7.
ISC IV 22 01 57 00.7–1.2 37.02N–.05 140.67E–.04 5–9 3.5b 27 0-147
ISCJB IV 22 01 57 00.7–1.7 37.05N–.03 140.76E–.05 13–12 3.6b **¶16707671**
JMA IV 22 01 57 01.3 37.07N 140.66E 6–1 3.2
IDC IV 22 01 57 08.5–3.5 36.96N 140.48E 61–31 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.0km az=27.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s10.00000°,δ47.00000°,λ-113.00000°. NP2:ϕ_s222.00000°,δ47.00000°,λ-67.00000°. Principal axes: T Plg0.0000°,Azm116.0000°; N Plg17.0000°,Azm26.0000°; P Plg73.0000° ,Azm206.0000°
IDC Error ellipse: s-maj=31.9km s-min=19.2km az=84.0.
ISC IV 22 03 03 51.3–.85 37.08N–.03 140.73E–.04 8–5 3.7b 34 0-95
NIED IV 22 03 03 00 37.10N 140.70E 5 3.7W **¶17201776**
IDC IV 22 03 03 49.9–.76 37.06N 140.70E 0 3.9,3.8
ISCJB IV 22 03 03 50.9–.86 37.07N–.03 140.82E–.05 15–5 3.9s,3.7b
JMA IV 22 03 03 51.3 37.09N 140.71E 7–1 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ31.00000°,λ-120.00000°. NP2:ϕ_s44.00000°,δ63.00000°,λ-73.00000°. $M_0$3.99000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=16.4km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.2km az=12.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ54.00000°,λ-97.00000°. NP2:ϕ_s194.00000°,δ36.00000°,λ-80.00000°. Principal axes: T Plg9.0000°,Azm97.0000°; N Plg6.0000°,Azm6.0000°; P Plg79.0000° ,Azm243.0000°
JMA IV 22 06 35 51.2–.10 39.68N 141.91E 52–1 2.1
¶602557873
JMA IV 22 12 00 30.7 37.03N 140.77E 10–1 2.9
¶600596105
JMA Event type fe.
JMA IV 22 13 18 07.9 37.05N 140.79E 9–1 2.5
¶600596178
JMA Event type fe.
ISC IV 22 19 36 54.8–.96 37.02N–.03 140.69E–.04 11–7 3.7b 23 0-61
IDC IV 22 19 36 52.7–1.4 36.98N 140.75E 0 3.6,3.5 **¶17201833**
ISCJB IV 22 19 36 54.0–.66 37.00N–.04 140.78E–.06 18–5 3.5b,3.5
JMA IV 22 19 36 54.8 37.02N 140.66E 7–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=22.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=27.4.
JMA Event type fe.
ISC IV 22 19 44 16.5–1.5 37.00N–.06 139.44E–.04 5–13 17 0-61
ISCJB IV 22 19 44 17.2–.52 36.93N–.03 139.44E–.04 10–5 3.5b **¶17201834**
JMA IV 22 19 44 17.4 36.95N 139.43E 4–1 3.4
IDC IV 22 19 44 17.6–1.9 36.80N 139.45E 0 3.6,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.9km az=28.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s192.00000°,δ88.00000°,λ-14.00000°. NP2:ϕ_s282.00000°,δ76.00000°,λ-178.00000°. Principal axes: T Plg8.0000°,Azm238.0000°; N Plg76.0000°,Azm3.0000°; P Plg11.0000° ,Azm146.0000°
IDC Error ellipse: s-maj=21.0km s-min=14.3km az=15.0.
JMA IV 22 21 25 27.8 37.23N 140.92E 5–1 2.7
¶600596672
JMA Event type fe.
JMA IV 23 02 53 26.7 35.73N 138.26E 4–2 0.7
¶600596914
JMA IV 23 02 53 33.9 36.84N 138.63E 7–2 1.1
¶600596917
ISC IV 23 11 07 39.8–.94 37.02N–.03 140.67E–.03 8–6 4.1b 62 0-147
NIED IV 23 11 07 00 37.00N 140.70E 8 4.0W **¶602557878**
ISCJB IV 23 11 07 39.6–.45 37.04N–.02 140.76E–.04 17–3 4.1b
JMA IV 23 11 07 39.9 37.05N 140.66E 6–2 4.3
IDC IV 23 11 07 44.9–1.9 37.03N 140.57E 46–18 4.1,4.0
NEIC IV 23 11 07 45.1–.69 37.02N 140.66E 49–6 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ28.00000°,λ-104.00000°. NP2:ϕ_s154.00000°,δ63.00000°,λ-83.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=29.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s142.00000°,δ55.00000°,λ-78.00000°. NP2:ϕ_s303.00000°,δ37.00000°,λ-106.00000°. Principal axes: T Plg9.0000°,Azm224.0000°; N Plg10.0000°,Azm316.0000°; P Plg77.0000° ,Azm92.0000°
IDC Error ellipse: s-maj=16.6km s-min=12.3km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=122.0. Recorded [3 JMA] in Fukushima.
JMA IV 23 17 05 16.8 36.21N 137.62E 5–1 0.6
¶600597412
JMA IV 23 17 05 19.7 36.83N 138.62E 8–2 0.7
¶600597415
ISC IV 23 20 53 03.1–1.2 37.05N–.03 140.66E–.04 1–8 3.5b 36 0-147
NIED IV 23 20 53 00 37.10N 140.80E 5 3.7W **¶16456657**
ISCJB IV 23 20 53 03.8–.87 37.09N–.03 140.85E–.05 14–5 3.6s,3.5b
IDC IV 23 20 53 03.4–.64 37.12N 140.71E 0 3.9,3.8
JMA IV 23 20 53 04.4 37.09N 140.75E 5–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ39.00000°,λ-91.00000°. NP2:ϕ_s41.00000°,δ51.00000°,λ-89.00000°. $M_0$4.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.2km az=35.4.
IDC Error ellipse: s-maj=18.6km s-min=14.1km az=119.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s236.00000°,δ72.00000°,λ-108.00000°. NP2:ϕ_s103.00000°,δ25.00000°,λ-46.00000°. Principal axes: T Plg25.0000°,Azm340.0000°; N Plg17.0000°,Azm242.0000°; P Plg59.0000° ,Azm121.0000°
ISC IV 24 03 25 10.6–.80 36.04N–.04 139.86E–.05 48–7 3.8b,3.0s 48 0-148
NIED IV 24 03 25 00 36.10N 139.90E 56 4.1W,3.0s **¶16456673**
ISCJB IV 24 03 25 09.7–.36 36.05N–.03 139.86E–.05 56–3 3.8b,2.9s
JMA IV 24 03 25 10.8–.10 36.07N 139.86E 44–1 4.1,2.9s
IDC IV 24 03 25 11.6–1.6 36.04N 139.78E 57–14 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ26.00000°,λ-153.00000°. NP2:ϕ_s169.00000°,δ78.00000°,λ-67.00000°. $M_0$1.87000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=167.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s357.00000°,δ79.00000°,λ74.00000°. NP2: ϕ_s235.00000°,δ20.00000°,λ146.00000°. Principal axes: T Plg53.0000°,Azm248.0000° ; N Plg16.0000°,Azm1.0000°; P Plg32.0000°,Azm101.0000°
IDC Error ellipse: s-maj=15.6km s-min=12.6km az=54.0.
JMA IV 24 09 30 27.9–.10 37.72N 139.97E 10–1 2.0
¶600598016
ISC IV 24 10 09 51.1–.51 37.07N–.03 140.64E–.03 12–3 4.6b,3.6s 199 0-153
NIED IV 24 10 09 00 37.10N 140.70E 14 4.2W,3.6s **¶602557908**
IDC IV 24 10 09 50.9–.53 37.04N 140.48E 11–3 4.3,4.3L
BJI IV 24 10 09 50.8 37.06N 141.03E 37 4.9b,4.6b
ISCJB IV 24 10 09 51.1–.35 37.07N–.02 140.66E–.03 24–2 4.5b,3.7s
JMA IV 24 10 09 51.7 37.06N 140.64E 14–1 4.5,3.7s
MOS IV 24 10 09 52.1–1.1 37.12N 140.68E 33 4.5b,3.7s
NEIC IV 24 10 09 55.7–.51 37.08N 140.52E 43–5 4.9b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s126.00000°,δ25.00000°,λ-28.00000°. NP2:ϕ_s242.00000°,δ79.00000°,λ-113.00000°. $M_0$2.14000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=10.6km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=26.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s224.00000°,δ77.00000°,λ-115.00000°. NP2:ϕ_s109.00000°,δ28.00000°,λ-28.00000°. Principal axes: T Plg28.0000°,Azm334.0000°; N Plg24.0000°,Azm230.0000°; P Plg51.0000° ,Azm106.0000°

MOS Error ellipse: s-maj=8.6km s-min=5.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=115.0. Recorded [4 JMA] in Fukushima.
JMA IV 24 10 35 15.5 37.10N 140.70E 8–1 2.8 ¶600598067
JMA Event type fe.
ISC IV 24 11 50 16.8–1.1 37.07N–.05 140.81E–.05 4–6 3.4b 21 0-57
ISCJB IV 24 11 50 16.7–.88 37.13N–.03 140.87E–.06 2–5 3.4b **¶600598117**
IDC IV 24 11 50 16.3–1.5 36.98N 141.06E 0 3.6,3.3
JMA IV 24 11 50 17.4 37.13N 140.79E 3–1 3.1,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.5km az=23.4.
IDC Error ellipse: s-maj=33.9km s-min=26.7km az=151.0.
JMA Event type fe.
IDC IV 24 12 06 37.6–4.3 35.73N 138.48E 134–117 3.5,3.3 ¶17201963
IDC Error ellipse: s-maj=584.4km s-min=26.5km az=61.0.
ISC IV 24 12 20 56.6–.91 37.13N–.03 140.80E–.04 3–5 3.8s,3.5b 31 0-147
NIED IV 24 12 20 00 37.10N 140.80E 5 3.6W,3.5b **¶16456681**
ISCJB IV 24 12 20 55.5–.66 37.13N–.03 140.87E–.05 5–3 3.6s,3.5b
IDC IV 24 12 20 55.5–.77 37.03N 140.83E 0 3.8,3.6
JMA IV 24 12 20 56.5 37.13N 140.79E 4–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s201.00000°,δ58.00000°,λ-95.00000°. $M_0$2.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=18.6.
IDC Error ellipse: s-maj=19.9km s-min=17.5km az=120.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s210.00000°,δ46.00000°,λ-98.00000°. NP2:ϕ_s42.00000°,δ44.00000°,λ-82.00000°. Principal axes: T Plg1.0000°,Azm306.0000°; N Plg6.0000°,Azm216.0000°; P Plg84.0000° ,Azm45.0000°
ISC IV 24 16 41 43.8–1.1 37.08N–.04 140.84E–.06 15–5 3.4b 20 0-69
IDC IV 24 16 41 41.7–1.5 37.52N 140.92E 0 4.3,4.3s **¶17201971**
JMA IV 24 16 41 45.5 37.09N 140.75E 6–1 3.1,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=34.2km s-min=22.9km az=75.0.
JMA Event type fe.
ISC IV 24 17 43 12.6–1.0 37.09N–.03 140.63E–.05 6–10 21 0-57
IDC IV 24 17 43 11.5–1.7 36.98N 140.86E 0 3.7,3.6b **¶17201973**
ISCJB IV 24 17 43 12.6–.55 37.08N–.03 140.70E–.05 11–4 3.5b,3.6b
JMA IV 24 17 43 12.8 37.08N 140.66E 9–1 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=27.6km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=27.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s159.00000°,δ49.00000°,λ-111.00000°. NP2:ϕ_s10.00000°,δ45.00000°,λ-67.00000°. Principal axes: T Plg2.0000°,Azm264.0000°; N Plg16.0000°,Azm173.0000°; P Plg74.0000° ,Azm1.0000°
JMA IV 25 04 25 00.5 37.09N 140.66E 9–1 2.6 ¶600598742
JMA IV 25 04 37 44.3 37.03N 140.67E 8–1 2.5 ¶600598757
ISC IV 25 12 46 17.0–.93 37.02N–.03 140.64E–.05 16–8 21 0-147
IDC IV 25 12 46 13.9–1.7 36.74N 141.05E 0 3.8,3.6b **¶17202050**
ISCJB IV 25 12 46 17.5–.56 37.04N–.03 140.63E–.07 10–6 3.8b,3.6b
JMA IV 25 12 46 17.7 37.04N 140.61E 9–2 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=37.7km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.6km az=10.9.
ISC IV 25 14 51 12.6–.88 36.66N–.03 139.54E–.04 16–5 3.9b 46 0-82
NIED IV 25 14 51 00 36.70N 139.60E 8 3.7W **¶16707971**
IDC IV 25 14 51 10.0–.61 36.65N 139.59E 0 4.0,3.9
ISCJB IV 25 14 51 11.9–.48 36.65N–.03 139.62E–.04 24–3 3.9b,3.9
JMA IV 25 14 51 12.4 36.67N 139.58E 10–1 3.8,3.9
NEIC IV 25 14 51 15.7–.88 36.60N 139.51E 40–8 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ36.00000°,λ35.00000°. NP2:ϕ_s37.00000°,δ70.00000°,λ121.00000°. $M_0$4.41000×10^{14}
IDC Error ellipse: s-maj=13.6km s-min=10.8km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=27.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s33.00000°,δ66.00000°,λ119.00000°. NP2:ϕ_s160.00000°,δ37.00000°,λ43.00000°. Principal axes: T Plg59.0000°,Azm344.0000°; N Plg26.0000°,Azm200.0000°; P Plg16.0000° ,Azm102.0000°
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.5km az=96.0.
JMA IV 26 00 05 20.4 37.05N 140.64E 14–1 3.6
NIED IV 26 00 05 00 37.10N 140.70E 20 3.3W **¶602557961**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ60.00000°,λ35.00000°. NP2:ϕ_s91.00000°,δ60.00000°,λ145.00000°. Principal axes: T Plg45.0000°,Azm56.0000°; N Plg45.0000°,Azm236.0000°; P Plg0.0000° ,Azm326.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ54.00000°,λ37.00000°. NP2:ϕ_s82.00000°,δ61.00000°,λ138.00000°. $M_0$9.15000×10^{13}
JMA IV 26 05 06 26.0 37.00N 140.60E 10–1 3.2 ¶600599616
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s128.00000°,δ62.00000°,λ-70.00000°. NP2:ϕ_s271.00000°,δ34.00000°,λ-122.00000°. Principal axes: T Plg15.0000°,Azm204.0000°; N Plg17.0000°,Azm299.0000°; P Plg67.0000° ,Azm76.0000°
JMA IV 26 07 56 31.3 37.03N 140.63E 8–2 2.5 ¶600599709
ISC IV 26 08 33 29.3–.95 37.03N–.03 140.68E–.06 12–8 16 0-61
IDC IV 26 08 33 27.7–4.4 37.04N 140.70E 0 3.7,3.5b **¶17202117**
ISCJB IV 26 08 33 28.8–.74 37.01N–.04 140.80E–.08 18–6 3.6b,3.5b
JMA IV 26 08 33 29.6 37.04N 140.66E 7–2 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=85.5km s-min=31.8km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.9km az=13.1.
ISC IV 26 12 12 00.8–.32 36.07N–.03 140.00E–.03 47–2 5.1b,4.2s 819 0-162
MOS IV 26 12 11 59.3–.93 36.13N 139.80E 45 5.4b,4.0s **¶16460943**
ISCJB IV 26 12 12 00.3–.30 36.05N–.02 139.84E–.02 53–2 5.1b,4.1s
NEIC IV 26 12 12 00.5–.44 36.09N 139.78E 40–4 5.1b,4.1s
NIED IV 26 12 12 00 36.10N 140.00E 59 4.9W,4.1s
GCMT IV 26 12 12 00.5–.30 36.05N 139.98E 52–1 5.0W,4.1s
IDC IV 26 12 12 01.1–.47 36.07N 139.98E 48–4 5.0,4.9
JMA IV 26 12 12 01.5–.10 36.09N 139.98E 46–1 5.0,4.9
ISC Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=3.7km az=105.2.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=42.7.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=137.0. Felt [III] at Tokyo and [II] at Kanagawa. Also felt at Ayase, Itsukaichi, Musashimurayama, Narita, Numazu, Sagamihara, Tachikawa, Yamato, Yokohama and Yokosuka. Recorded [4 JMA] in Ibaraki and Tochigi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ33.00000°,λ150.00000°. NP2:ϕ_s42.00000°,δ74.00000°,λ61.00000°. $M_0$2.74000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c42; s78,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.81±.23 $M_{\theta\theta}$-2.95±.14; $M_{\phi\phi}$0.14±.15; $M_{r\theta}$1.23±.11; $M_{\theta\phi}$-1.21±.09; $M_{\phi r}$2.03±.09; Best double couple: NP1:ϕ_s48.00000°,δ65.00000° ,λ67.00000°. NP2:ϕ_s273.00000°,δ34.00000°,λ130.00000°. Principal axes: T 3.9460,Plg63.0000°,Azm280.0000°; N -0.0390,Plg21.0000°,Azm59.0000° ; P -3.9040,Plg16.0000°,Azm155.0000° $M_0$3.92500×10^{16}
IDC Error ellipse: s-maj=6.8km s-min=5.8km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s39.00000°,δ71.00000°,λ89.00000°. NP2: ϕ_s223.00000°,δ19.00000°,λ94.00000°. Principal axes: T Plg64.0000°,Azm307.0000° ; N Plg1.0000°,Azm39.0000°; P Plg26.0000°,Azm130.0000°
ISC IV 26 14 20 24.2–.99 37.07N–.03 140.70E–.04 5–9 22 0-61
ISCJB IV 26 14 20 23.5–.60 37.08N–.03 140.78E–.06 12–4 3.5b,3.4s **¶17202149**
IDC IV 26 14 20 23.6–1.8 36.97N 140.82E 0 3.5,3.4b
JMA IV 26 14 20 24.1 37.09N 140.70E 8–1 2.9,3.4b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=10.8.
IDC Error ellipse: s-maj=31.8km s-min=30.8km az=139.0.
JMA Event type fe.
ISC IV 26 16 41 55.4–1.0 37.18N–.03 140.62E–.03 8–9 19 0-57
IDC IV 26 16 41 53.8–2.5 37.33N 140.68E 0 3.8,3.6 **¶17202164**
ISCJB IV 26 16 41 55.1–.58 37.19N–.03 140.66E–.07 15–7 3.6s,3.4b
JMA IV 26 16 41 55.2 37.18N 140.60E 6–1 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=42.8km s-min=35.3km az=32.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.4km az=3.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s4.00000°,δ51.00000°,λ-57.00000°. NP2:ϕ_s138.00000°,δ49.00000°,λ-124.00000°. Principal axes: T Plg1.0000°,Azm71.0000°; N Plg25.0000°,Azm161.0000°; P Plg65.0000° ,Azm339.0000°
ISC IV 26 17 12 22.4–1.0 37.01N–.03 140.68E–.05 7–9 19 0-57
ISCJB IV 26 17 12 21.9–.69 37.01N–.03 140.75E–.06 9–4 3.8b **¶600600067**
IDC IV 26 17 12 21.1–1.9 36.84N 140.82E 0 3.7,3.7b
JMA IV 26 17 12 22.3 37.01N 140.69E 8–1 3.4,3.7b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.6km az=27.2.
IDC Error ellipse: s-maj=32.5km s-min=29.8km az=86.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ45.00000°,λ-87.00000°. NP2:ϕ_s46.00000°,δ45.00000°,λ-93.00000°. Principal axes: T Plg0.0000°,Azm318.0000°; N Plg2.0000°,Azm48.0000°; P Plg88.0000° ,Azm228.0000°
ISC IV 26 17 17 34.9–1.0 36.21N–.05 139.95E–.06 58–8 3.7b 20 0-60
NIED IV 26 17 17 00 36.30N 140.00E 68 3.7W **¶17202169**
IDC IV 26 17 17 25.8–2.1 36.44N 140.48E 0 3.9L,3.7
ISCJB IV 26 17 17 33.8–.69 36.18N–.05 140.01E–.08 65–5 3.6b,3.7
JMA IV 26 17 17 35.5–.10 36.20N 139.96E 52–1 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ19.00000°,λ92.00000°. NP2:ϕ_s43.00000°,δ71.00000°,λ89.00000°. $M_0$3.38000×10^{14}
IDC Error ellipse: s-maj=56.1km s-min=21.3km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.6km az=167.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s36.00000°,δ78.00000°,λ86.00000°. NP2: ϕ_s236.00000°,δ13.00000°,λ109.00000°. Principal axes: T Plg57.0000°,Azm301.0000° ; N Plg4.0000°,Azm37.0000°; P Plg33.0000°,Azm130.0000°
ISC IV 27 00 43 12.3–.99 37.08N–.04 140.74E–.06 11–8 16 0-57
ISCJB IV 27 00 43 12.8–.65 37.09N–.03 140.75E–.07 7–5 3.4b **¶17202197**
JMA IV 27 00 43 12.7 37.09N 140.70E 8–1 2.9
IDC IV 27 00 43 18.0–2.9 36.10N 140.43E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=4.9km az=17.2.
JMA Event type fe.
IDC Error ellipse: s-maj=74.0km s-min=26.5km az=43.0.
ISC IV 27 00 55 52.2–.91 37.05N–.03 140.66E–.04 9–6 3.8b 62 0-147
NIED IV 27 00 55 00 37.00N 140.70E 5 3.7W **¶16681490**
IDC IV 27 00 55 50.6–.62 37.07N 140.68E 0 4.0,3.9
ISCJB IV 27 00 55 51.7–.48 37.05N–.03 140.78E–.04 18–3 4.0s,4.0b
JMA IV 27 00 55 52.2 37.04N 140.68E 9–1 4.1,4.0b
NEIC IV 27 00 55 56.8–.65 37.05N 140.60E 44–5 4.2b,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ44.00000°,λ-86.00000°. NP2:ϕ_s226.00000°,δ46.00000°,λ-94.00000°. $M_0$4.07000×10^{14}
IDC Error ellipse: s-maj=17.3km s-min=13.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.2km az=26.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s240.00000°,δ54.00000°,λ-91.00000°. NP2:ϕ_s62.00000°,δ36.00000°,λ-88.00000°. Principal axes: T Plg9.0000°,Azm331.0000°; N Plg1.0000°,Azm241.0000°; P Plg81.0000° ,Azm145.0000°
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=5.0km az=126.0. Recorded [2 JMA] in Fukushima and Ibaraki.
ISC IV 27 03 55 09.6–.95 37.05N–.03 140.67E–.04 7–6 3.9b 40 0-74
NIED IV 27 03 55 00 37.10N 140.70E 8 3.9W **¶602557992**
ISCJB IV 27 03 55 08.9–.53 37.04N–.03 140.80E–.05 15–3 3.9b
IDC IV 27 03 55 08.2–.81 36.96N 140.69E 0 4.0,3.9
JMA IV 27 03 55 09.5 37.06N 140.67E 10–1 4.1,3.9
NEIC IV 27 03 55 09.8–.73 36.97N 140.60E 10 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ16.00000°,λ-73.00000°. NP2:ϕ_s175.00000°,δ75.00000°,λ-95.00000°. $M_0$7.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=28.8.
IDC Error ellipse: s-maj=18.3km s-min=12.6km az=148.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ67.00000°,λ-96.00000°. NP2:ϕ_s10.00000°,δ23.00000°,λ-75.00000°. Principal axes: T Plg22.0000°,Azm269.0000°; N Plg6.0000°,Azm177.0000°; P Plg67.0000° ,Azm73.0000°
NEIC Event type fe. Error ellipse: s-maj=16.3km s-min=9.1km az=140.0. Recorded [3 JMA] in Fukushima.
ISC IV 27 04 39 39.8–1.0 39.00N–.05 141.81E–.08 65–7 3.7b 24 0-59
ISCJB IV 27 04 39 38.9–.69 39.00N–.05 141.80E–.09 72–5 3.7b **¶17202209**
JMA IV 27 04 39 40.2 39.03N 141.72E 67–1 3.5
IDC IV 27 04 39 42.9–3.3 38.95N 141.63E 95–32 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.1km az=17.9.
JMA Event type fe.
IDC Error ellipse: s-maj=30.9km s-min=21.5km az=97.0.
ISC IV 27 10 27 24.7–.99 36.80N–.03 138.62E–.03 10–6 4.2b,3.6s 69 0-149
NIED IV 27 10 27 00 36.80N 138.60E 8 4.4W,3.6s **¶16465533**
IDC IV 27 10 27 23.8–.48 36.88N 138.49E 0 4.2,4.1
ISCJB IV 27 10 27 24.0–.48 36.82N–.03 138.58E–.03 16–4 4.0b,3.6s
JMA IV 27 10 27 24.2–.20 36.82N 138.62E 0–3 4.6,3.6s
NEIC IV 27 10 27 26.0–.81 36.75N 138.49E 18–5 4.3b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ78.00000°,λ-170.00000°. NP2:ϕ_s10.00000°,δ80.00000°,λ-12.00000°. $M_0$5.13000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=5.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=144.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ85.00000°,λ8.00000°. NP2:ϕ_s94.00000°,δ82.00000°,λ175.00000°. Principal axes: T Plg9.0000°,Azm49.0000°; N Plg81.0000°,Azm217.0000°; P Plg2.0000° ,Azm319.0000°
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.7km az=119.0. Recorded [4 JMA] in Gumma.
ISC IV 27 12 27 46.8–1.0 37.09N–.03 140.53E–.04 9–7 3.8b 40 0-147
NIED IV 27 12 27 00 37.00N 140.70E 11 3.7W **¶16465534**
ISCJB IV 27 12 27 46.8–.43 37.08N–.03 140.72E–.04 23–3 3.9b
JMA IV 27 12 27 47.4 37.06N 140.66E 13–1 3.9
IDC IV 27 12 27 51.0–2.0 37.10N 140.51E 41–18 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ44.00000°,λ90.00000°. NP2:ϕ_s47.00000°,δ46.00000°,λ90.00000°. $M_0$4.20000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s255.00000°,δ54.00000°,λ96.00000°. NP2:ϕ_s65.00000°,δ36.00000°,λ82.00000°. Principal axes: T Plg80.0000°,Azm191.0000°; N Plg5.0000°,Azm72.0000°; P Plg9.0000° ,Azm341.0000°
IDC Error ellipse: s-maj=17.5km s-min=12.1km az=104.0.
ISC IV 27 12 57 12.0–.90 37.06N–.03 140.70E–.04 10–6 3.8b 35 0-69
NIED IV 27 12 57 00 37.10N 140.70E 5 3.7W **¶16577905**
IDC IV 27 12 57 09.4–1.3 37.08N 140.92E 0 3.9,3.8
ISCJB IV 27 12 57 11.1–.52 37.05N–.03 140.81E–.05 16–4 3.7b,3.8
JMA IV 27 12 57 11.8 37.07N 140.67E 9–1 3.7,3.8
NEIC IV 27 12 57 15.3–.80 36.99N 140.72E 35–8 4.0b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ13.00000°,λ-105.00000°. NP2:ϕ_s189.00000°,δ77.00000°,λ-86.00000°. $M_0$3.47000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=18.3km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=20.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s197.00000°,δ61.00000°,λ-95.00000°. NP2:ϕ_s28.00000°,δ29.00000°,λ-81.00000°. Principal axes: T Plg16.0000°,Azm291.0000°; N Plg4.0000°,Azm200.0000°; P Plg73.0000°,Azm95.0000°

NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.5km az=107.0.

ISC	**IV**	**27 14 48 24.2–.94**	**37.05N–.03**	**140.66E–.04**	**10–8**	**3.5b**	**21**	**0-61**	
IDC	IV	27 14 48 22.4–2.4	37.03N	140.85E	0	3.7,3.5b			**¶17202240**
ISCJB	IV	27 14 48 23.9–.63	37.03N–.03	140.75E–.05	15–5	3.6b,3.5b			
JMA	IV	27 14 48 24.4	37.05N	140.65E	7–2	3.3,3.5b			

ISC Event type ke.

IDC Error ellipse: s-maj=49.7km s-min=29.2km az=31.0.

ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.4km az=23.7.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ51.00000°,λ-77.00000°. NP2:ϕ_s6.00000°,δ41.00000°,λ-105.00000°. Principal axes: T Plg5.0000°,Azm287.0000°; N Plg10.0000°,Azm18.0000°; P Plg79.0000°,Azm172.0000°

ISC	**IV**	**28 04 39 39.7–.77**	**36.34N–.05**	**139.81E–.06**	**115–6**	**3.4b**	**32**	**0-74**	
ISCJB	IV	28 04 39 38.7–.45	36.34N–.04	139.79E–.07	122–3	3.5b			**¶16505558**
IDC	IV	28 04 39 40.2–1.2	36.34N	139.66E	119–11	3.7,3.5			
JMA	IV	28 04 39 40.7–.10	36.32N	139.83E	107–1	3.4,3.5			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.1km az=1.8.

IDC Error ellipse: s-maj=24.9km s-min=9.3km az=67.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**28 10 24 03.2–.10**	**36.78N**	**138.16E**	**4–3**	**0.4**			
									¶600601431

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**28 12 39 30.1–1.3**	**37.05N–.05**	**140.88E–.06**	**9–7**	**3.7b**	**22**	**0-69**	
NIED	IV	28 12 39 00	37.10N	140.90E	5	3.7W			**¶16482358**
IDC	IV	28 12 39 28.7–1.6	37.09N	141.08E	0	3.8,3.7			
ISCJB	IV	28 12 39 29.0–1.0	37.07N–.04	141.00E–.07	8–4	3.6b,3.7			
JMA	IV	28 12 39 31.2	37.09N	140.83E	8–1	3.5,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ16.00000°,λ-74.00000°. NP2:ϕ_s234.00000°,δ74.00000°,λ-94.00000°. $M_0$3.36000×10^{14}

IDC Error ellipse: s-maj=32.7km s-min=25.2km az=100.0.

ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.3km az=19.3.

JMA Event type fe.

JMA	**IV**	**28 22 40 56.8**	**37.03N**	**140.61E**	**8–2**	**2.5**			
									¶600601998
ISC	**IV**	**28 23 49 34.1–1.1**	**37.08N–.05**	**140.85E–.06**	**9–6**		**18**	**0-57**	
IDC	IV	28 23 49 32.8–1.9	36.89N	140.87E	0	3.6,3.4b			**¶17202333**
ISCJB	IV	28 23 49 34.2–.89	37.12N–.03	140.85E–.07	10–4	3.4b,3.4b			
JMA	IV	28 23 49 35.3	37.14N	140.79E	4–1	3.2,3.4b			

ISC Event type ke.

IDC Error ellipse: s-maj=27.4km s-min=21.4km az=6.0.

ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.1km az=16.0.

JMA Event type fe.

JMA	**IV**	**29 14 29 56.6**	**37.05N**	**140.66E**	**9–2**	**2.7**			
									¶600602689
JMA	**IV**	**29 15 50 44.1**	**37.02N**	**140.69E**	**10–1**	**2.5**			
									¶600602801
JMA	**IV**	**29 17 04 19.0**	**37.73N**	**139.93E**	**8–1**	**1.8**			
									¶602558029
JMA	**IV**	**30 04 23 00.7**	**37.80N**	**140.00E**	**9–1**	**2.1**			
									¶602945459
IDC	**IV**	**30 04 23 49.8–1.6**	**37.73N**	**140.64E**	**0**	**3.6,3.4b**			
									¶17202432

IDC Error ellipse: s-maj=62.3km s-min=29.3km az=125.0.

ISC	**IV**	**30 08 06 06.6–1.2**	**37.02N–.04**	**140.61E–.05**	**5–10**	**3.4b**	**18**	**0-57**	
ISCJB	IV	30 08 06 07.6–.61	37.04N–.03	140.69E–.07	6–6	3.2b			**¶17202448**
JMA	IV	30 08 06 07.5	37.04N	140.66E	7–2	2.6			
IDC	IV	30 08 06 07.1–2.1	36.75N	140.75E	0	3.4,3.3b			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.5km az=20.4.

IDC Error ellipse: s-maj=39.2km s-min=24.2km az=66.0.

ISC	**V**	**01 00 02 32.6–.88**	**37.11N–.04**	**140.85E–.06**	**7–4**	**3.8b**	**47**	**0-147**	
NIED	V	01 00 02 00	37.10N	140.80E	5	3.7W			**¶16486817**
ISCJB	V	01 00 02 31.3–.76	37.08N–.03	140.97E–.05	11–3	3.8b			
IDC	V	01 00 02 31.5–.71	37.15N	140.81E	0	3.9,3.8			
JMA	V	01 00 02 32.9	37.10N	140.85E	9–1	3.7,3.8			
NEIC	V	01 00 02 36.8–3.3	37.17N	140.89E	35–22	4.4b,3.8			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ47.00000°,λ-115.00000°. NP2:ϕ_s72.00000°,δ49.00000°,λ-66.00000°. $M_0$4.69000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=24.3.

IDC Error ellipse: s-maj=18.5km s-min=14.1km az=142.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s62.00000°,δ50.00000°,λ-79.00000°. NP2:ϕ_s225.00000°,δ42.00000°,λ-102.00000°. Principal axes: T Plg4.0000°,Azm144.0000°; N Plg8.0000°,Azm235.0000°; P Plg81.0000°,Azm28.0000°

NEIC Event type fe. Error ellipse: s-maj=16.7km s-min=10.2km az=135.0. Recorded [3 JMA] in Fukushima.

ISC	**V**	**01 03 37 18.4–1.1**	**37.05N–.03**	**140.64E–.04**	**5–7**	**3.6b**	**28**	**0-147**	
NIED	V	01 03 37 00	37.10N	140.70E	5	3.7W			**¶16486822**
ISCJB	V	01 03 37 17.8–.53	37.05N–.03	140.76E–.06	15–4	3.6b			
IDC	V	01 03 37 17.4–.75	36.98N	140.67E	0	3.8,3.7			
JMA	V	01 03 37 18.3	37.07N	140.67E	10–1	3.9,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ15.00000°,λ-107.00000°. NP2:ϕ_s184.00000°,δ75.00000°,λ-85.00000°. $M_0$4.68000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=20.8.

IDC Error ellipse: s-maj=17.6km s-min=13.6km az=145.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s199.00000°,δ80.00000°,λ-90.00000°. NP2:ϕ_s19.00000°,δ10.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm289.0000°; N Plg0.0000°,Azm19.0000°; P Plg55.0000°,Azm109.0000°

ISC	**V**	**01 19 59 30.9–1.0**	**37.06N–.03**	**140.66E–.04**	**5–7**	**3.6b**	**28**	**0-69**	
NIED	V	01 19 59 00	37.10N	140.70E	5	3.9W			**¶17202557**
IDC	V	01 19 59 29.6–.84	36.94N	140.81E	0	3.9,3.7			
JMA	V	01 19 59 30.8	37.07N	140.67E	10–1	3.8,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ17.00000°,λ-90.00000°. NP2:ϕ_s209.00000°,δ73.00000°,λ-90.00000°. $M_0$8.84000×10^{14}

IDC Error ellipse: s-maj=21.0km s-min=17.2km az=99.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ53.00000°,λ-71.00000°. NP2:ϕ_s357.00000°,δ41.00000°,λ-113.00000°. Principal axes: T Plg6.0000°,Azm283.0000°; N Plg15.0000°,Azm15.0000°; P Plg74.0000°,Azm171.0000°

ISC	**V**	**02 03 16 54.7–1.1**	**37.01N–.03**	**140.46E–.04**	**5–8**	**3.8b**	**34**	**0-82**	
NIED	V	02 03 16 00	37.00N	140.50E	5	3.9W			**¶16486841**
ISCJB	V	02 03 16 54.9–.42	36.99N–.03	140.59E–.05	19–3	3.7b			
JMA	V	02 03 16 55.0	36.99N	140.53E	7–2	3.9			
IDC	V	02 03 17 01.2–2.4	36.92N	140.27E	58–24	3.8,3.7L			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ28.00000°,λ-93.00000°. NP2:ϕ_s265.00000°,δ62.00000°,λ-89.00000°. $M_0$7.12000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=22.1.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s269.00000°,δ56.00000°,λ-85.00000°. NP2:ϕ_s81.00000°,δ34.00000°,λ-97.00000°. Principal axes: T Plg11.0000°,Azm356.0000°; N Plg4.0000°,Azm87.0000°; P Plg78.0000°,Azm196.0000°

IDC Error ellipse: s-maj=21.4km s-min=13.2km az=73.0.

ISC	**V**	**02 16 43 56.4–1.2**	**37.01N–.04**	**140.49E–.06**	**6–11**	**3.3b**	**21**	**0-61**	
IDC	V	02 16 43 54.4–2.0	37.07N	140.68E	0	3.4,3.3			**¶17202624**
ISCJB	V	02 16 43 56.5–.55	36.99N–.03	140.60E–.04	17–7	3.2b,3.0s			
JMA	V	02 16 43 56.6	36.99N	140.53E	5–1	3.2,3.0s			

ISC Event type ke.

IDC Error ellipse: s-maj=39.8km s-min=25.8km az=50.0.

ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.6km az=9.6.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s75.00000°,δ54.00000°,λ-83.00000°. NP2:ϕ_s243.00000°,δ36.00000°,λ-99.00000°. Principal axes: T Plg9.0000°,Azm160.0000°; N Plg6.0000°,Azm251.0000°; P Plg79.0000°,Azm11.0000°

JMA	**V**	**02 23 29 19.7**	**35.71N**	**137.33E**	**14**	**2.5**			
									¶600605266
ISC	**V**	**03 13 57 15.1–.83**	**37.05N–.03**	**140.52E–.04**	**14–5**	**4.5b,3.2s**	**169**	**0-147**	
NIED	V	03 13 57 00	37.00N	140.60E	5	4.3W,3.2s			**¶16489808**
ISCJB	V	03 13 57 14.6–.36	37.02N–.02	140.60E–.03	21–2	4.4b,3.3s			
JMA	V	03 13 57 14.8	37.01N	140.59E	8–1	4.5,3.3s			
MOS	V	03 13 57 16.5–1.4	37.02N	140.71E	38	4.6b,3.3s			
IDC	V	03 13 57 19.8–1.5	37.03N	140.39E	47–15	4.3,4.2			
NEIC	V	03 13 57 20.1–.68	36.97N	140.42E	50–6	4.5b,4.2			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ30.00000°,λ-63.00000°. NP2:ϕ_s277.00000°,δ64.00000°,λ-105.00000°. $M_0$2.75000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=33.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s292.00000°,δ53.00000°,λ-74.00000°. NP2:ϕ_s85.00000°,δ40.00000°,λ-111.00000°. Principal axes: T Plg7.0000°,Azm10.0000°; N Plg13.0000°,Azm102.0000°; P Plg75.0000°,Azm252.0000°

MOS Error ellipse: s-maj=8.9km s-min=5.7km az=92.2.

IDC Error ellipse: s-maj=14.7km s-min=9.3km az=92.0.

NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.4km az=120.0. Recorded [4 JMA] in Fukushima.

ISC	**V**	**03 14 53 06.6–1.1**	**37.05N–.04**	**140.77E–.09**	**8–7**		**17**	**0-57**	
NIED	V	03 14 53 00	37.00N	140.80E	5	3.4W			**¶600605847**
IDC	V	03 14 53 04.8–2.7	37.13N	140.89E	0	3.5,3.3b			
ISCJB	V	03 14 53 05.4–.97	37.02N–.04	140.89E–.08	12–4	3.4b,3.3b			
JMA	V	03 14 53 06.3	37.04N	140.82E	10–1	3.5,3.3b			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ26.00000°,λ-101.00000°. NP2:ϕ_s42.00000°,δ65.00000°,λ-85.00000°. $M_0$1.62000×10^{14}

IDC Error ellipse: s-maj=45.4km s-min=36.1km az=34.0.

ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.8km az=11.8.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ62.00000°,λ-77.00000°. NP2:ϕ_s203.00000°,δ31.00000°,λ-113.00000°. Principal axes: T Plg16.0000°,Azm130.0000°; N Plg12.0000°,Azm223.0000°; P Plg70.0000°,Azm348.0000°

JMA	**V**	**03 17 55 00.8**	**37.01N**	**140.71E**	**9–1**	**2.5**			
									¶603241684

JMA Event type fe.

ISC	**V**	**03 19 15 33.9–.97**	**38.00N–.03**	**140.59E–.03**	**14–7**	**3.5b**	**34**	**0-90**	
NIED	V	03 19 15 00	38.00N	140.60E	8	3.6W			**¶600606031**
IDC	V	03 19 15 31.6–.79	38.04N	140.65E	0	3.8,3.6			
ISCJB	V	03 19 15 33.9–.37	37.98N–.02	140.61E–.04	24–3	3.5b,3.6			
JMA	V	03 19 15 34.3	37.98N	140.56E	10–1	3.9,3.6			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ22.00000°,λ154.00000°. NP2:ϕ_s346.00000°,δ81.00000°,λ70.00000°. $M_0$3.13000×10^{14}

IDC Error ellipse: s-maj=21.2km s-min=16.3km az=109.0.

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.9km az=10.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s344.00000°,δ79.00000°,λ64.00000°. NP2:ϕ_s232.00000°,δ28.00000°,λ155.00000°. Principal axes: T Plg50.0000°,Azm226.0000°; N Plg25.0000°,Azm350.0000°; P Plg29.0000°,Azm95.0000°

ISC	**V**	**03 21 28 03.1–.83**	**36.11N–.04**	**139.88E–.05**	**59–7**	**3.6b**	**33**	**0-75**	
NIED	V	03 21 28 00	36.10N	139.80E	47	3.8W			**¶17202717**
ISCJB	V	03 21 28 01.9–.47	36.11N–.04	139.93E–.06	65–4	3.6b			
IDC	V	03 21 28 02.4–1.8	36.07N	140.01E	53–16	3.7,3.6L			
JMA	V	03 21 28 04.0–.10	36.14N	139.85E	50–1	3.6,3.6L			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ28.00000°,λ167.00000°. NP2:ϕ_s327.00000°,δ84.00000°,λ63.00000°. $M_0$5.61000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.9km az=4.3.

IDC Error ellipse: s-maj=21.9km s-min=9.7km az=76.0.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s153.00000°,δ89.00000°,λ-77.00000°. NP2:ϕ_s246.00000°,δ13.00000°,λ-178.00000°. Principal axes: T Plg43.0000°,Azm231.0000°; N Plg13.0000°,Azm333.0000°; P Plg44.0000°,Azm76.0000°

ISC	**V**	**04 14 46 59.0–.79**	**36.92N–.07**	**137.05E–.08**	**268–7**	**3.4b**	**39**	**0-67**	
ISCJB	V	04 14 46 58.2–.41	36.93N–.05	137.05E–.07	274–4	3.2b			**¶17202765**
JMA	V	04 14 46 59.0–.20	36.90N	137.07E	271–2	3.1			
IDC	V	04 14 46 59.2–.80	36.96N	137.17E	271–9	3.7,3.1			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.8km az=34.9.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=28.0km s-min=14.1km az=72.0.

JMA	**V**	**04 18 22 20.5**	**35.23N**	**138.40E**	**18–1**	**3.6**			
									¶16497697

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ74.00000°,λ36.00000°. NP2:ϕ_s261.00000°,δ56.00000°,λ161.00000°. Principal axes: T Plg36.0000°,Azm227.0000°; N Plg51.0000°,Azm23.0000°; P Plg12.0000°,Azm128.0000°

ISC	**V**	**04 22 22 01.9–.82**	**39.41N–.05**	**140.73E–.10**	**140–6**	**3.4b**	**26**	**0-62**	
ISCJB	V	04 22 22 00.5–.51	39.40N–.05	140.8E–.10	145–4	3.3b			**¶17202801**
IDC	V	04 22 22 01.6–2.1	39.64N	140.58E	127–21	3.4,3.2			
JMA	V	04 22 22 01.6–.10	39.39N	140.71E	141–1	3.1,3.2			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=6.5km az=17.4.

IDC Error ellipse: s-maj=27.0km s-min=17.5km az=113.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**V**	**05 10 26 16.7**	**37.06N**	**140.80E**	**9–1**	**2.6**			
									¶600607205
ISC	**V**	**05 12 50 28.9–.70**	**35.93N–.04**	**138.39E–.06**	**195–5**	**3.3b**	**43**	**0-93**	
ISCJB	V	05 12 50 28.1–.36	35.94N–.04	138.37E–.06	200–2	3.2b			**¶17202846**
JMA	V	05 12 50 28.9–.10	35.90N	138.41E	197–1	3.2			
IDC	V	05 12 50 28.6–.45	35.90N	138.23E	190–3	3.7,3.4			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=2.3.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=21.4km s-min=8.6km az=71.0.

ISC	**V**	**05 17 04 28.9–.53**	**37.09N–.03**	**140.88E–.03**	**12–2**	**5.4s,5.2b**	**445**	**0-151**	
NIED	V	05 17 04 00	37.10N	140.90E	5	4.9W,5.2b			**¶16497759**
BJI	V	05 17 04 26.8	37.07N	140.92E	15	5.3b,5.0b			
IDC	V	05 17 04 26.6–.43	37.06N	140.86E	0	5.0,5.0b			
ISCJB	V	05 17 04 27.2–.40	37.11N–.02	140.81E–.02	7–2	5.2s,5.1b			
JMA	V	05 17 04 27.3	37.10N	140.81E	6–1	5.2,5.1b			
NEIC	V	05 17 04 29.5–2.1	37.07N	140.75E	15–13	5.2b,5.1b			
MOS	V	05 17 04 32.8–1.1	37.36N	140.67E	37	5.4b,5.4s			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ28.00000°,λ-84.00000°. NP2:ϕ_s242.00000°,δ62.00000°,λ-93.00000°. $M_0$2.76000×10^{16}

IDC Error ellipse: s-maj=12.1km s-min=10.7km az=119.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=154.2.

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s241.00000°,δ64.00000°,λ-98.00000°. NP2:ϕ_s79.00000°,δ28.00000°,λ-73.00000°. Principal axes: T Plg18.0000°,Azm337.0000°; N Plg8.0000°,Azm245.0000°; P Plg70.0000°,Azm133.0000°

NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.3km az=140.0. Recorded [5L JMA] in Fukushima.

MOS Error ellipse: s-maj=9.9km s-min=5.5km az=99.8.

JMA	**V**	**05 17 06 29.4**	**37.10N**	**140.79E**	**7–1**	**2.5**			
									¶600607393
JMA	**V**	**05 17 35 24.2**	**37.10N**	**140.80E**	**6–1**	**3.0**			
									¶600607410

JMA Event type fe.

ISC	**V**	**05 18 32 07.3–1.0**	**37.73N–.04**	**139.93E–.03**	**12–8**	**3.4b**	**28**	**0-64**	
IDC	V	05 18 32 05.2–.96	37.76N	139.93E	0	4.2s,4.2			**¶16497763**
ISCJB	V	05 18 32 07.2–.63	37.72N–.03	139.96E–.04	14–5	4.2s,3.4b			
JMA	V	05 18 32 07.5	37.73N	139.93E	8–1	3.4,3.4b			

ISC Event type ke.

IDC Error ellipse: s-maj=26.8km s-min=17.8km az=122.0.

ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=141.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s22.00000°,δ48.00000°,λ73.00000°. NP2:ϕ_s227.00000°,δ44.00000°,λ108.00000°. Principal axes: T Plg77.0000°,Azm223.0000°; N Plg13.0000°,Azm34.0000°; P Plg2.0000° ,Azm124.0000°

JMA V 05 22 36 03.6 37.05N 140.67E 9–1 2.0 ¶602919037

ISC V 05 22 36 56.7–1.1 37.04N–.03 140.44E–.04 6–7 3.9b 53 0-147
NIED V 05 22 36 00 37.00N 140.50E 5 3.9W **¶16497769**
IDC V 05 22 36 55.7–.60 37.02N 140.42E 0 4.0,3.9L
ISCJB V 05 22 36 57.0–.43 37.03N–.03 140.54E–.03 20–3 3.9b,3.9L
JMA V 05 22 36 57.1 37.02N 140.51E 6–1 4.0,3.9L
NEIC V 05 22 37 01.6–.90 37.05N 140.35E 39–7 4.3b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s299.00000°,δ35.00000°,λ-98.00000°. NP2:ϕ_s128.00000°,δ55.00000°,λ-85.00000°. $M_0$7.30000×10^{14}
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=135.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s120.00000°,δ48.00000°,λ-90.00000°. NP2:ϕ_s300.00000°,δ42.00000°,λ-90.00000°. Principal axes: T Plg3.0000°,Azm210.0000°; N Plg0.0000°,Azm120.0000°; P Plg87.0000° ,Azm30.0000°
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=136.0. Recorded [3 JMA] in Fukushima.

JMA V 06 11 52 14.2 39.56N 140.45E 9–1 3.6
NIED V 06 11 52 00 39.60N 140.50E 5 3.5W **¶16498378**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ77.00000°,λ-162.00000°. NP2:ϕ_s279.00000°,δ72.00000°,λ-14.00000°. Principal axes: T Plg3.0000°,Azm146.0000°; N Plg68.0000°,Azm49.0000°; P Plg22.0000° ,Azm237.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ46.00000°,λ-3.00000°. NP2:ϕ_s12.00000°,δ88.00000°,λ-136.00000°. $M_0$1.85000×10^{14}

JMA V 06 22 29 43.7 37.04N 140.68E 11–1 2.3 ¶600608477

ISC V 07 04 34 55.2–.81 37.71N–.02 139.92E–.02 18–3 4.8b,3.8s 689 0-156
NIED V 07 04 34 00 37.70N 139.90E 8 4.5W,3.8s **¶16498405**
IDC V 07 04 34 52.2–.40 37.75N 139.86E 0 4.6,4.5
ISCJB V 07 04 34 53.8–.36 37.70N–.02 139.87E–.02 17–2 4.7b,3.9s
JMA V 07 04 34 53.9 37.75N 139.93E 8–1 4.6,3.9s
MOS V 07 04 34 56.0–1.0 37.71N 139.86E 33 4.9b,3.9s
NEIC V 07 04 34 59.0–.35 37.69N 139.77E 45–3 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ49.00000°,λ44.00000°. NP2:ϕ_s234.00000°,δ59.00000°,λ129.00000°. $M_0$5.51000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=8.6km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=159.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ70.00000°,λ130.00000°. NP2:ϕ_s347.00000°,δ44.00000°,λ30.00000°. Principal axes: T Plg49.0000°,Azm188.0000°; N Plg37.0000°,Azm39.0000°; P Plg15.0000° ,Azm297.0000°
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=83.1.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=135.0. Recorded [4 JMA] in Fukushima.

ISC V 07 05 16 37.0–1.3 36.84N–.04 138.67E–.04 0–9 3.6b,2.6s 25 0-92
NIED V 07 05 16 00 36.80N 138.70E 8 3.9W,2.6s **¶17202972**
ISCJB V 07 05 16 36.1–.57 36.85N–.03 138.65E–.04 5–5 3.6b,2.7s
IDC V 07 05 16 37.0–.81 36.85N 138.60E 0 3.9,3.7
JMA V 07 05 16 36.6–.20 36.83N 138.68E 2–3 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ81.00000°,λ2.00000°. NP2:ϕ_s252.00000°,δ88.00000°,λ171.00000°. $M_0$7.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=135.2.
IDC Error ellipse: s-maj=24.0km s-min=7.2km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s77.00000°,δ69.00000°,λ-141.00000°. NP2:ϕ_s331.00000°,δ54.00000°,λ-27.00000°. Principal axes: T Plg9.0000°,Azm201.0000°; N Plg47.0000°,Azm101.0000°; P Plg42.0000° ,Azm299.0000°

ISC V 07 22 11 07.1–.91 37.13N–.03 140.70E–.04 8–5 4.5b,4.3s 196 0-147
NIED V 07 22 11 00 37.10N 140.80E 5 4.1W,4.3s **¶16499108**
IDC V 07 22 11 05.5–.52 37.12N 140.74E 0 4.3,4.2
ISCJB V 07 22 11 07.3–.47 37.11N–.02 140.75E–.03 20–3 4.5b,4.4s
JMA V 07 22 11 07.1 37.11N 140.77E 4–1 4.5,4.4s
MOS V 07 22 11 09.4–1.0 37.14N 140.75E 37 4.5b,4.4s
NEIC V 07 22 11 12.8–.36 37.12N 140.65E 50–3 4.6b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ35.00000°,λ-81.00000°. NP2:ϕ_s220.00000°,δ56.00000°,λ-96.00000°. $M_0$1.80000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=12.9km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=36.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s237.00000°,δ68.00000°,λ-100.00000°. NP2:ϕ_s82.00000°,δ24.00000°,λ-67.00000°. Principal axes: T Plg22.0000°,Azm335.0000°; N Plg9.0000°,Azm241.0000°; P Plg66.0000° ,Azm130.0000°
MOS Error ellipse: s-maj=8.6km s-min=6.4km az=94.8.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=135.0. Recorded [3 JMA] in Fukushima.

JMA V 08 19 59 30.9 35.98N 137.31E 7 2.9 ¶600610059

JMA Event type fe.

ISC V 08 22 24 34.3–1.3 37.20N–.04 140.94E–.08 10–7 3.2b 17 0-57
IDC V 08 22 24 31.9–2.6 37.57N 141.23E 0 3.4,3.3b **¶17203084**
JMA V 08 22 24 34.9 37.22N 140.89E 8–1 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=59.0km s-min=33.7km az=68.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s20.00000°,δ56.00000°,λ-65.00000°. NP2:ϕ_s161.00000°,δ41.00000°,λ-122.00000°. Principal axes: T Plg8.0000°,Azm93.0000°; N Plg20.0000°,Azm186.0000°; P Plg68.0000° ,Azm343.0000°

ISC V 11 19 20 54.6–.60 36.17N–.04 138.91E–.07 131–5 4.0b 67 0-149
NIED V 11 19 20 00 36.10N 139.00E 122 4.1W **¶16560035**
ISCJB V 11 19 20 53.3–.28 36.12N–.04 138.91E–.07 136–2 4.0b
NEIC V 11 19 20 54.5–.57 36.10N 138.85E 132–5 4.7b
JMA V 11 19 20 54.5–.20 36.13N 138.97E 131–2 3.9
IDC V 11 19 20 54.5–.74 36.07N 138.78E 132–6 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ38.00000°,λ-33.00000°. NP2:ϕ_s260.00000°,δ71.00000°,λ-123.00000°. $M_0$1.87000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.9km az=175.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=7.6km az=82.0. Recorded [2 JMA] in Yamanashi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s252.00000°,δ66.00000°,λ-90.00000°. NP2: ϕ_s72.00000°,δ24.00000°,λ-90.00000°. Principal axes: T Plg21.0000°,Azm342.0000° ; N Plg0.0000°,Azm72.0000°; P Plg69.0000°,Azm162.0000°
IDC Error ellipse: s-maj=14.5km s-min=9.9km az=84.0.

JMA V 12 07 01 33.7 37.03N 140.59E 8–1 2.3 ¶603241697

JMA V 12 09 51 24.3 37.00N 140.79E 10–1 3.7 ¶603241698

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s204.00000°,δ46.00000°,λ-88.00000°. NP2:ϕ_s20.00000°,δ44.00000°,λ-92.00000°. Principal axes: T Plg1.0000°,Azm292.0000°; N Plg2.0000°,Azm22.0000°; P Plg88.0000° ,Azm170.0000°

JMA V 12 11 08 09.8 37.04N 140.65E 5–1 2.6 ¶600612483

JMA V 12 15 48 03.2 37.10N 140.83E 7 2.9 ¶600612606

JMA Event type fe.

ISC V 13 08 19 41.9–.87 37.09N–.03 140.73E–.04 9–5 3.6b 26 0-91
NIED V 13 08 19 00 37.10N 140.70E 5 3.7W **¶17203535**
ISCJB V 13 08 19 41.3–.90 37.07N–.03 140.84E–.05 15–6 3.6b
JMA V 13 08 19 41.9 37.09N 140.70E 6–1 3.5
IDC V 13 08 19 46.0–3.9 36.99N 140.82E 38–36 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ23.00000°,λ-109.00000°. NP2:ϕ_s226.00000°,δ68.00000°,λ-82.00000°. $M_0$3.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.0km az=178.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s19.00000°,δ49.00000°,λ-99.00000°. NP2:ϕ_s212.00000°,δ41.00000°,λ-80.00000°. Principal axes: T Plg4.0000°,Azm115.0000°; N Plg7.0000°,Azm25.0000°; P Plg82.0000° ,Azm235.0000°
IDC Error ellipse: s-maj=28.6km s-min=17.5km az=99.0.

JMA V 13 08 21 08.8 37.09N 140.70E 7–1 2.8 ¶600613110

JMA V 13 11 35 05.7 37.11N 140.69E 8–1 2.6 ¶600613236

ISC V 14 12 01 00.6–1.2 36.64N–.08 137.76E–.07 209–8 24 0-60
IDC V 14 12 00 47.4–1.7 35.23N 135.70E 0 3.8,3.6 **¶600613996**
ISCJB V 14 12 00 59.7–.69 36.63N–.07 137.76E–.08 214–5 3.3b,3.6
JMA V 14 12 01 00.3–.10 36.67N 137.75E 210–1 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=52.1km s-min=26.9km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=10.2km az=146.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 14 19 20 56.2–.91 37.15N–.03 140.74E–.04 7–7 21 0-57
ISCJB V 14 19 20 55.7–.64 37.16N–.03 140.82E–.06 10–4 3.3b **¶17203635**
IDC V 14 19 20 55.0–1.9 37.11N 140.90E 0 3.5,3.4
JMA V 14 19 20 56.2 37.16N 140.74E 8–1 3.1,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=17.2.
IDC Error ellipse: s-maj=34.7km s-min=29.7km az=116.0.
JMA Event type fe.

JMA V 15 07 03 30.5 37.11N 140.79E 9–1 3.5 ¶600614766

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s215.00000°,δ54.00000°,λ-85.00000°. NP2:ϕ_s26.00000°,δ36.00000°,λ-97.00000°. Principal axes: T Plg9.0000°,Azm301.0000°; N Plg4.0000°,Azm32.0000°; P Plg80.0000° ,Azm147.0000°

ISC V 15 07 56 45.1–1.0 37.70N–.03 139.93E–.03 11–9 28 0-61
NIED V 15 07 56 00 37.70N 139.90E 8 3.6W **¶16516456**
IDC V 15 07 56 40.8–3.7 38.05N 139.84E 0 3.9,3.6
ISCJB V 15 07 56 44.9–.49 37.70N–.02 139.95E–.03 8–4 3.7b,3.6
JMA V 15 07 56 45.2 37.71N 139.93E 7–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ46.00000°,λ125.00000°. NP2:ϕ_s13.00000°,δ54.00000°,λ60.00000°. $M_0$3.05000×10^{14}
IDC Error ellipse: s-maj=74.4km s-min=40.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.6km az=150.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s3.00000°,δ73.00000°,λ52.00000°. NP2:ϕ_s252.00000°,δ41.00000°,λ153.00000°. Principal axes: T Plg48.0000°,Azm233.0000°; N Plg36.0000°,Azm16.0000°; P Plg19.0000° ,Azm120.0000°

ISC V 16 18 05 03.7–1.2 36.48N–.04 137.63E–.02 2–8 4.1b,3.8s 52 0-93
NIED V 16 18 05 00 36.50N 137.70E 11 4.6W,3.8s **¶16560081**
ISCJB V 16 18 05 03.0–.46 36.47N–.03 137.64E–.03 8–3 3.9b,3.8s
JMA V 16 18 05 02.8–.10 36.48N 137.64E 2–2 4.5,3.8s
NEIC V 16 18 05 03.8–1.3 36.46N 137.64E 3–9 4.2b,3.8s
IDC V 16 18 05 03.1–.59 36.39N 137.67E 0 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ81.00000°,λ-8.00000°. NP2:ϕ_s274.00000°,δ82.00000°,λ-171.00000°. $M_0$1.02000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=172.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s181.00000°,δ84.00000°,λ6.00000°. NP2:ϕ_s91.00000°,δ84.00000°,λ174.00000°. Principal axes: T Plg9.0000°,Azm46.0000°; N Plg81.0000°,Azm226.0000°; P Plg0.0000° ,Azm316.0000°
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.2km az=151.0. Recorded [2 JMA] in Gifu and Nagano.
IDC Error ellipse: s-maj=15.6km s-min=6.8km az=166.0.

JMA V 16 20 14 36.5 36.82N 138.62E 7–2 1.0 ¶600615961

ISC V 17 18 35 13.6–1.3 39.75N–.05 141.8E–.10 59–8 3.9b 15 0-64
NIED V 17 18 35 00 39.80N 141.90E 50 3.6W **¶17203831**
ISCJB V 17 18 35 12.9–.90 39.78N–.05 141.9E–.10 63–5 3.8b
IDC V 17 18 35 13.0–1.7 40.17N 140.85E 0 3.8,3.8b
JMA V 17 18 35 13.9 39.76N 141.85E 57–1 3.5,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ27.00000°,λ161.00000°. NP2:ϕ_s350.00000°,δ82.00000°,λ65.00000°. $M_0$2.42000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=7.9km az=3.3.
IDC Error ellipse: s-maj=47.5km s-min=22.0km az=84.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s24.00000°,δ67.00000°,λ102.00000°. NP2:ϕ_s175.00000°,δ26.00000°,λ64.00000°. Principal axes: T Plg66.0000°,Azm316.0000°; N Plg11.0000°,Azm199.0000°; P Plg21.0000° ,Azm105.0000°

JMA V 19 03 13 22.5 37.06N 140.55E 7–1 2.6 ¶600617704

JMA Event type fe.

JMA V 21 07 05 38.2 37.01N 140.51E 6–1 2.9 ¶600619689

JMA V 21 14 06 46.5 36.95N 139.43E 4–1 2.7 ¶600619953

JMA Event type fe.

ISC V 21 17 17 22.7–1.1 36.95N–.03 139.42E–.03 6–8 3.6b 24 0-61
NIED V 21 17 17 00 36.90N 139.40E 5 3.8W **¶16533356**
IDC V 21 17 17 21.0–1.1 36.76N 139.52E 0 3.6,3.4
ISCJB V 21 17 17 22.1–.47 36.95N–.02 139.42E–.04 8–4 3.6b,3.4s
JMA V 21 17 17 22.2 36.95N 139.42E 4–1 3.9,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ81.00000°,λ-178.00000°. NP2:ϕ_s7.00000°,δ88.00000°,λ-9.00000°. $M_0$6.40000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=12.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=20.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s10.00000°,δ80.00000°,λ-14.00000°. NP2:ϕ_s103.00000°,δ77.00000°,λ-169.00000°. Principal axes: T Plg2.0000°,Azm57.0000°; N Plg73.0000°,Azm154.0000°; P Plg17.0000° ,Azm326.0000°

JMA V 23 09 23 31.1 39.21N 141.83E 53–1 1.5 ¶17204291

ISC V 23 18 32 33.1–.94 37.10N–.03 140.64E–.06 10–10 21 0-61
ISCJB V 23 18 32 33.0–.61 37.08N–.03 140.77E–.06 16–5 3.6b **¶17204315**
JMA V 23 18 32 33.6 37.09N 140.67E 8–1 3.2
IDC V 23 18 32 34.1–4.0 36.69N 140.73E 0 3.7,3.5b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=12.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s359.00000°,δ64.00000°,λ-102.00000°. NP2:ϕ_s204.00000°,δ28.00000°,λ-68.00000°. Principal axes: T Plg18.0000°,Azm98.0000°; N Plg10.0000°,Azm5.0000°; P Plg69.0000° ,Azm246.0000°
IDC Error ellipse: s-maj=80.8km s-min=29.4km az=23.0.

JMA V 24 04 14 14.3 36.95N 139.43E 4–1 2.7 ¶600621935

JMA Event type fe.

JMA V 24 20 35 13.4 37.11N 140.83E 7–1 3.0 ¶602919071

JMA Event type fe.

ISC V 24 20 36 13.3–.85 37.07N–.02 140.92E–.03 6–4 4.8b,4.2s 488 0-147
NIED V 24 20 36 00 37.10N 140.90E 5 4.7W,4.2s **¶16539604**
IDC V 24 20 36 12.7–.52 37.06N 140.83E 0 4.6,4.5
ISCJB V 24 20 36 12.7–.48 37.10N–.02 140.92E–.02 9–3 4.8b,4.2s
JMA V 24 20 36 13.4 37.11N 140.83E 7–1 5.0,4.2s
NEIC V 24 20 36 16.7–1.2 37.04N 140.84E 27–9 4.9b,4.2s
MOS V 24 20 36 17.0–1.2 37.07N 140.80E 41 5.0b,4.2s

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ28.00000°,λ-85.00000°. NP2:ϕ_s246.00000°,δ62.00000°,λ-92.00000°. $M_0$1.31000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=12.2km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=141.2.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s219.00000° ,δ52.00000°,λ-129.00000°. NP2:ϕ_s93.00000°,δ52.00000°,λ-51.00000°. Principal axes: T Plg0.0000°,Azm336.0000°; N Plg30.0000°,Azm246.0000°; P Plg60.0000°,Azm66.0000°
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=130.0. Recorded [5L JMA] in Fukushima.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=110.7.

JMA	**V**	**24 20 36 39.3**	**36.19N**	**137.68E**	**4–1**	**0.6**		
								¶600622531
ISC	**V**	**24 20 59 00.2–.88**	**37.09N–.04**	**140.75E–.06**	**8–7**	**3.5b**	**21**	**0-57**
IDC	V	24 20 58 58.4–2.1	37.07N	141.09E	0	3.6,3.5b		**¶17204403**
ISCJB	V	24 20 58 59.5–.98	37.10N–.03	140.94E–.07	7–4	3.4b,3.5b		
JMA	V	24 20 59 00.7	37.12N	140.83E	8–1	3.2,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=30.2km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=16.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s231.00000°,δ49.00000°,λ-100.00000°. NP2:ϕ_s66.00000°,δ42.00000°,λ-79.00000°. Principal axes: T Plg3.0000°,Azm328.0000°; N Plg7.0000°,Azm238.0000°; P Plg82.0000° ,Azm81.0000°

JMA	**V**	**24 21 05 49.7**	**37.08N**	**140.80E**	**7–1**	**2.5**		
								¶600622542
IDC	**V**	**26 00 11 36.4–1.3**	**39.67N**	**141.82E**	**0**	**3.6,3.5**		
								¶17204473

IDC Error ellipse: s-maj=32.2km s-min=24.1km az=93.0.

JMA	**V**	**26 10 14 48.7**	**36.92N**	**139.75E**	**6–1**	**1.5**		
								¶602917398
ISC	**V**	**26 10 15 53.5–1.4**	**37.05N–.06**	**140.85E–.06**	**4–8**	**3.8b**	**25**	**0-74**
NIED	V	26 10 15 00	37.10N	140.80E	5	3.7W		**¶602920532**
ISCJB	V	26 10 15 52.7–.89	37.10N–.03	140.96E–.05	6–4	3.7b		
JMA	V	26 10 15 54.2	37.11N	140.84E	7	3.7		
IDC	V	26 10 16 02.0–3.6	37.01N	140.78E	70–29	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ23.00000°,λ-53.00000°. NP2:ϕ_s242.00000°,δ72.00000°,λ-104.00000°. $M_0$3.66000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.4km az=23.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s234.00000°,δ61.00000°,λ-98.00000°. NP2:ϕ_s70.00000°,δ30.00000°,λ-76.00000°. Principal axes: T Plg15.0000°,Azm330.0000°; N Plg7.0000°,Azm238.0000°; P Plg73.0000° ,Azm125.0000°
IDC Error ellipse: s-maj=28.4km s-min=18.8km az=89.0.

JMA	**V**	**26 19 17 14.0**	**36.17N**	**137.47E**	**5–1**	**0.5**		
								¶603241717
ISC	**V**	**26 19 50 41.5–1.1**	**37.09N–.03**	**140.58E–.05**	**6–9**	**3.5b**	**25**	**0-61**
NIED	V	26 19 50 00	37.10N	140.60E	5	3.6W		**¶17204529**
IDC	V	26 19 50 40.4–1.1	37.01N	140.64E	0	3.6,3.5		
ISCJB	V	26 19 50 41.3–.52	37.08N–.03	140.73E–.05	19–4	3.5b,3.5		
JMA	V	26 19 50 41.9	37.08N	140.63E	8–1	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ35.00000°,λ-95.00000°. NP2:ϕ_s131.00000°,δ55.00000°,λ-87.00000°. $M_0$2.84000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=20.6km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=29.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s310.00000°,δ67.00000°,λ-100.00000°. NP2:ϕ_s155.00000°,δ26.00000°,λ-67.00000°. Principal axes: T Plg21.0000°,Azm48.0000°; N Plg10.0000°,Azm314.0000°; P Plg67.0000° ,Azm201.0000°

ISC	**V**	**26 23 21 41.8–1.0**	**37.09N–.04**	**140.83E–.05**	**6–5**	**3.7b**	**30**	**0-90**
NIED	V	26 23 21 00	37.10N	140.80E	5	3.8W		**¶600623995**
IDC	V	26 23 21 39.3–1.5	36.99N	141.13E	0	3.8,3.8s		
ISCJB	V	26 23 21 40.9–.90	37.10N–.03	140.90E–.06	8–4	3.9s,3.8b		
JMA	V	26 23 21 41.6	37.11N	140.83E	8–1	3.5,3.8b		
NEIC	V	26 23 21 44.9–.95	36.98N	141.03E	35	4.3b,3.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s93.00000°,δ26.00000°,λ-52.00000°. NP2:ϕ_s232.00000°,δ70.00000°,λ-107.00000°. $M_0$5.54000×10^{14}
IDC Error ellipse: s-maj=32.6km s-min=26.7km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.0km az=16.6.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=14.0km az=110.0.

ISC	**V**	**27 03 34 16.2–.89**	**37.09N–.03**	**140.83E–.04**	**13–5**	**4.5b,3.7s**	**154**	**0-152**
NIED	V	27 03 34 00	37.10N	140.90E	5	4.5W,3.7s		**¶16551112**
ISCJB	V	27 03 34 14.6–.71	37.08N–.03	140.91E–.04	12–4	4.4b,3.7s		
IDC	V	27 03 34 14.0–.60	37.09N	140.87E	0	4.3,4.2		
JMA	V	27 03 34 15.3	37.11N	140.83E	8–1	4.7,4.2		
NEIC	V	27 03 34 19.7–.59	37.04N	140.87E	38–5	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ28.00000°,λ-60.00000°. NP2:ϕ_s235.00000°,δ66.00000°,λ-105.00000°. $M_0$5.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=136.9.
IDC Error ellipse: s-maj=15.8km s-min=14.5km az=156.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s223.00000°,δ51.00000°,λ-101.00000°. NP2:ϕ_s60.00000°,δ41.00000°,λ-77.00000°. Principal axes: T Plg5.0000°,Azm321.0000°; N Plg9.0000°,Azm230.0000°; P Plg80.0000° ,Azm80.0000°
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.8km az=125.0. Recorded [4 JMA] in Fukushima.

ISC	**V**	**27 08 04 07.8–.80**	**37.07N–.03**	**140.66E–.05**	**15–5**	**4.0b**	**60**	**0-147**
NIED	V	27 08 04 00	37.10N	140.70E	11	3.9W		**¶16549389**
ISCJB	V	27 08 04 07.4–.40	37.07N–.02	140.73E–.04	23–2	4.1s,4.0b		
JMA	V	27 08 04 08.1	37.07N	140.65E	15–1	4.2,4.0b		
NEIC	V	27 08 04 11.6–.80	37.16N	140.66E	42–7	4.3b,4.0b		
IDC	V	27 08 04 11.6–2.1	37.11N	140.52E	41–19	4.0,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ45.00000°,λ21.00000°. NP2:ϕ_s83.00000°,δ75.00000°,λ133.00000°. $M_0$7.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=23.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s84.00000°,δ76.00000°,λ135.00000°. NP2:ϕ_s188.00000°,δ47.00000°,λ20.00000°. Principal axes: T Plg41.0000°,Azm36.0000°; N Plg44.0000°,Azm250.0000°; P Plg18.0000° ,Azm142.0000°
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.7km az=122.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.5km s-min=13.5km az=109.0.

ISC	**V**	**27 11 25 09.6–1.0**	**37.02N–.03**	**140.67E–.06**	**6–9**	**3.5b**	**23**	**0-61**
NIED	V	27 11 25 00	37.00N	140.80E	5	3.6W		**¶16551157**
IDC	V	27 11 25 07.5–1.7	37.22N	140.73E	0	3.6,3.4		
ISCJB	V	27 11 25 08.0–.83	36.97N–.03	140.91E–.07	12–4	3.6b,3.4		
JMA	V	27 11 25 08.7	36.98N	140.83E	15–1	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ30.00000°,λ-175.00000°. NP2:ϕ_s40.00000°,δ87.00000°,λ-60.00000°. $M_0$2.51000×10^{14}
IDC Error ellipse: s-maj=33.1km s-min=20.8km az=173.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.6km az=10.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s221.00000°,δ79.00000°,λ28.00000°. NP2:ϕ_s126.00000°,δ63.00000°,λ168.00000°. Principal axes: T Plg27.0000°,Azm87.0000°; N Plg60.0000°,Azm241.0000°; P Plg11.0000° ,Azm351.0000°

JMA	**V**	**27 13 13 58.4–.10**	**38.33N**	**140.70E**	**12–1**	**2.0**		
								¶600624463
ISC	**V**	**27 13 33 38.3–.58**	**39.58N–.03**	**140.69E–.03**	**25–3**	**4.6b,3.6s**	**266**	**0-146**
NIED	V	27 13 33 00	39.60N	140.70E	5	4.2W,3.6s		**¶16551172**
IDC	V	27 13 33 35.0–.48	39.60N	140.56E	0	4.5,4.4		
JMA	V	27 13 33 36.1	39.61N	140.63E	5–1	4.6,4.4		
ISCJB	V	27 13 33 36.1–.41	39.62N–.02	140.65E–.02	18–3	4.5b,3.7s		
MOS	V	27 13 33 38.7–1.1	39.60N	140.60E	40	4.8b,3.7s		
NEIC	V	27 13 33 41.5–.57	39.59N	140.58E	51–5	4.7b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ59.00000°,λ144.00000°. NP2:ϕ_s272.00000°,δ60.00000°,λ36.00000°. $M_0$2.61000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.4km az=99.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s261.00000°,δ69.00000°,λ41.00000°. NP2:ϕ_s154.00000°,δ53.00000°,λ153.00000°. Principal axes: T Plg43.0000°,Azm124.0000°; N Plg45.0000°,Azm284.0000°; P Plg10.0000° ,Azm24.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=144.5.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=97.2.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=137.0. Recorded [4 JMA] in Akita.

ISC	**V**	**28 13 54 11.2–.92**	**37.04N–.03**	**140.68E–.04**	**10–7**	**3.8b**	**24**	**0-61**
IDC	V	28 13 54 08.8–1.7	37.08N	140.84E	0	3.9,3.8		**¶600625196**
ISCJB	V	28 13 54 10.6–.59	37.03N–.03	140.78E–.05	16–5	3.8b,3.8		
JMA	V	28 13 54 11.2	37.03N	140.68E	9–1	3.6,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=22.6km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=14.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s285.00000°,δ59.00000°,λ-100.00000°. NP2:ϕ_s125.00000°,δ33.00000°,λ-73.00000°. Principal axes: T Plg13.0000°,Azm23.0000°; N Plg9.0000°,Azm291.0000°; P Plg74.0000° ,Azm168.0000°

ISC	**V**	**29 21 55 15.4–1.0**	**37.67N–.04**	**139.94E–.03**	**11–7**	**3.6b**	**26**	**0-78**
NIED	V	29 21 55 00	37.70N	139.90E	5	3.8W		**¶17204727**
ISCJB	V	29 21 55 14.8–.63	37.70N–.04	139.94E–.03	12–4	3.5b		
JMA	V	29 21 55 15.5	37.67N	139.94E	8–1	3.6		
IDC	V	29 21 55 22.3–2.9	37.64N	139.75E	66–27	3.6,3.5L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ36.00000°,λ148.00000°. NP2:ϕ_s10.00000°,δ71.00000°,λ58.00000°. $M_0$4.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=166.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ66.00000°,λ55.00000°. NP2:ϕ_s247.00000°,δ41.00000°,λ142.00000°. Principal axes: T Plg55.0000°,Azm233.0000°; N Plg31.0000°,Azm23.0000°; P Plg14.0000° ,Azm122.0000°
IDC Error ellipse: s-maj=28.1km s-min=16.2km az=88.0.

ISC	**V**	**31 18 48 25.6–1.1**	**37.01N–.04**	**140.79E–.05**	**10–7**	**3.5b**	**21**	**0-64**
IDC	V	31 18 48 23.9–1.5	37.00N	140.86E	0	3.6,3.5		**¶17204840**
ISCJB	V	31 18 48 24.4–.94	36.98N–.04	140.91E–.07	16–6	3.5b,3.0s		
JMA	V	31 18 48 25.8	37.01N	140.72E	8–1	3.5,3.0s		

ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=22.2km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.0km az=26.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s244.00000°,δ72.00000°,λ-94.00000°. NP2:ϕ_s76.00000°,δ18.00000°,λ-78.00000°. Principal axes: T Plg27.0000°,Azm337.0000°; N Plg4.0000°,Azm245.0000°; P Plg63.0000° ,Azm148.0000°

ISC	**V**	**31 21 23 27.1–1.1**	**37.09N–.04**	**140.84E–.05**	**5–6**	**3.5b**	**23**	**0-57**
IDC	V	31 21 23 25.1–1.8	36.97N	141.01E	0	3.4,3.4		**¶16552787**
ISCJB	V	31 21 23 26.2–.94	37.10N–.03	140.92E–.06	4–4	3.4b,3.4		
JMA	V	31 21 23 27.2	37.12N	140.84E	7–1	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=24.3km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.5km az=26.1.
JMA Event type fe.

JMA	**VI**	**01 04 00 15.1**	**37.01N**	**140.78E**	**7–1**	**1.2**		
								¶600627663
JMA	**VI**	**01 19 57 55.5**	**36.64N**	**139.47E**	**4**	**2.9**		
								¶600628090

JMA Event type fe.

ISC	**VI**	**02 02 33 50.3–.59**	**36.97N–.03**	**138.77E–.03**	**25–4**	**4.6b,4.0s**	**271**	**0-149**
NIED	VI	02 02 33 00	37.00N	138.70E	5	4.6W,4.0s		**¶603243974**
BJI	VI	02 02 33 42.3	36.81N	139.24E	10	4.8b,4.5b		
ISCJB	VI	02 02 33 48.0–.37	37.00N–.02	138.70E–.03	18–2	4.5b,4.0s		
IDC	VI	02 02 33 48.5–2.0	36.95N	138.73E	11–12	4.4,4.3		
JMA	VI	02 02 33 48.0	37.02N	138.71E	6–3	4.7,4.3		
NEIC	VI	02 02 33 50.0–.80	36.89N	138.72E	25–6	4.7b,4.3		
MOS	VI	02 02 33 49.7–1.2	36.93N	138.67E	33	4.7b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ35.00000°,λ93.00000°. NP2:ϕ_s222.00000°,δ55.00000°,λ88.00000°. $M_0$8.80000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=39.2.
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=114.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000° ,δ86.00000°,λ-47.00000°. NP2:ϕ_s96.00000°,δ43.00000°,λ-175.00000°. Principal axes: T Plg28.0000°,Azm59.0000°; N Plg43.0000°,Azm179.0000°; P Plg34.0000°,Azm308.0000°
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=139.0. Recorded [5U JMA] in Niigata.
MOS Error ellipse: s-maj=8.1km s-min=5.1km az=103.1.

ISC	**VI**	**02 12 00 10.2–.71**	**36.44N–.06**	**137.65E–.03**	**11**	**3.7b,3.4s**	**18**	**0-82**
NIED	VI	02 12 00 00	36.50N	137.60E	8	4.3W,3.4s		**¶17204997**
JMA	VI	02 12 00 07.8–.10	36.48N	137.64E	1–2	3.8,3.4s		
ISCJB	VI	02 12 00 08.5–.46	36.43N–.06	137.66E–.03	11	3.6b,3.5s		
IDC	VI	02 12 00 08.7–.79	36.36N	137.70E	0	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ76.00000°,λ-170.00000°. NP2:ϕ_s184.00000°,δ80.00000°,λ-14.00000°. $M_0$2.94000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s188.00000°,δ86.00000°,λ6.00000°. NP2:ϕ_s98.00000°,δ84.00000°,λ176.00000°. Principal axes: T Plg7.0000°,Azm53.0000°; N Plg83.0000°,Azm217.0000°; P Plg2.0000° ,Azm323.0000°
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=3.9km az=174.7.
IDC Error ellipse: s-maj=22.2km s-min=7.5km az=161.0.

ISC	**VI**	**02 14 41 36.1–.96**	**37.11N–.03**	**140.61E–.03**	**9–7**	**3.6b**	**24**	**0-61**
IDC	VI	02 14 41 34.3–1.2	37.09N	140.61E	0	3.9,3.8		**¶16555884**
ISCJB	VI	02 14 41 35.4–.45	37.10N–.03	140.66E–.04	18–4	3.7b,3.8		
JMA	VI	02 14 41 35.5	37.10N	140.59E	7–1	3.8,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=20.1km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=10.6.
JMA Event type fe.

JMA	**VI**	**02 15 22 16.7–.10**	**36.48N**	**137.63E**	**2–2**	**1.7**		
								¶600628794
JMA	**VI**	**03 02 05 40.6**	**37.08N**	**140.81E**	**8–1**	**2.7**		
								¶600629272

JMA Event type fe.

JMA	**VI**	**03 16 00 21.9**	**38.32N**	**140.69E**	**11–1**	**1.4**		
								¶603243990
ISC	**VI**	**04 03 32 59.0–.98**	**40.28N–.04**	**140.42E–.04**	**13–6**	**4.2b,3.6s**	**52**	**0-146**
NIED	VI	04 03 32 00	40.20N	140.40E	8	3.9W,3.6s		**¶16556904**
ISCJB	VI	04 03 32 58.5–.47	40.26N–.03	140.37E–.04	21–4	4.0b,3.7s		
JMA	VI	04 03 32 58.5	40.24N	140.38E	13–1	4.1,3.7s		
NEIC	VI	04 03 33 02.8–.70	40.33N	140.34E	37–7	4.3b,3.7s		
IDC	VI	04 03 33 04.9–2.2	40.47N	140.23E	50–20	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ72.00000°,λ168.00000°. NP2:ϕ_s131.00000°,δ79.00000°,λ18.00000°. $M_0$9.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s309.00000°,δ89.00000°,λ-25.00000°. NP2:ϕ_s39.00000°,δ65.00000°,λ-179.00000°. Principal axes: T Plg17.0000°,Azm357.0000°; N Plg65.0000°,Azm127.0000°; P Plg18.0000° ,Azm261.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=6.2km az=120.0. Recorded [3 JMA] in Akita.
IDC Error ellipse: s-maj=17.2km s-min=13.4km az=119.0.

ISC	**VI**	**04 11 53 09.9–1.3**	**36.2N–.10**	**137.4E–.10**	**248–9**		**17**	**0-60**
ISCJB	VI	04 11 53 09.1–.92	36.2N–.20	137.4E–.20	253–7	2.9b		**¶17205196**
JMA	VI	04 11 53 09.9–.20	36.24N	137.37E	250–2	2.8		
IDC	VI	04 11 53 09.1–5.7	35.69N	136.66E	202–151	3.3,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.3km s-min=12.9km az=149.9.

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=264.8km s-min=114.3km az=37.0.
JMA VI 05 05 43 11.9–.10 36.82N 138.59E 3–3 0.7
¶600631795
JMA VI 05 07 13 36.7–.20 36.83N 138.58E 1–3 1.0
¶600631844
ISC VI 05 08 19 00.2–1.8 37.08N–.04 140.96E–.08 7–10 3.5b 22 0-57
IDC VI 05 08 19 00.1–2.0 36.92N 141.11E 0 3.4,3.3 **¶17205298**
ISCJB VI 05 08 19 01.8–.00 37.11N–.03 140.89E–.07 6–4 3.3b,3.3
JMA VI 05 08 19 02.5 37.12N 140.83E 8–1 3.3,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=39.6km s-min=23.1km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.0km az=17.5.
JMA Event type fe.
JMA VI 05 08 22 12.9 37.11N 140.83E 7–1 3.3
¶600631888
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ66.00000°,λ-102.00000°. NP2:ϕ_s64.00000°,δ27.00000°,λ-66.00000°. Principal axes: T Plg20.0000°,Azm316.0000°; N Plg11.0000°,Azm222.0000°; P Plg67.0000° ,Azm106.0000°
ISC VI 05 08 32 38.4–1.3 37.09N–.03 140.90E–.06 6–7 3.6b 30 0-74
NIED VI 05 08 32 00 37.10N 140.90E 5 3.7W **¶17205301**
ISCJB VI 05 08 32 37.0–.85 37.10N–.03 140.97E–.06 8–4 3.6b
IDC VI 05 08 32 37.0–.99 37.08N 141.03E 0 3.7,3.6
JMA VI 05 08 32 38.9 37.11N 140.82E 7–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ26.00000°,λ-58.00000°. NP2:ϕ_s235.00000°,δ69.00000°,λ-104.00000°. $M_0$4.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=5.3.
IDC Error ellipse: s-maj=23.3km s-min=16.8km az=82.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s234.00000°,δ54.00000°,λ-98.00000°. NP2:ϕ_s68.00000°,δ37.00000°,λ-79.00000°. Principal axes: T Plg9.0000°,Azm330.0000°; N Plg7.0000°,Azm239.0000°; P Plg79.0000° ,Azm112.0000°
ISC VI 05 11 36 52.4–.58 37.05N–.03 140.77E–.04 10 3.6b 37 0-91
ISCJB VI 05 11 36 50.7–.44 37.06N–.02 140.80E–.05 10 3.6b **¶17205316**
JMA VI 05 11 36 50.6 37.07N 140.77E 10–1 3.7
IDC VI 05 11 36 50.7–.74 36.89N 140.83E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.2km az=17.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s355.00000°,δ68.00000°,λ-120.00000°. NP2:ϕ_s233.00000°,δ36.00000°,λ-38.00000°. Principal axes: T Plg18.0000°,Azm107.0000°; N Plg28.0000°,Azm7.0000°; P Plg56.0000° ,Azm226.0000°
IDC Error ellipse: s-maj=19.4km s-min=14.6km az=121.0.
ISC VI 06 10 24 15.8–1.1 36.27N–.09 137.51E–.06 16–8 2.8s 12 0-60
NIED VI 06 10 24 00 36.10N 137.50E 8 4.0W **¶16560651**
ISCJB VI 06 10 24 15.2–1.2 36.1N–.10 137.44E–.08 19–13 3.5b,2.8s
JMA VI 06 10 24 16.3 36.10N 137.47E 8 4.1,2.8s
IDC VI 06 10 24 18.0–2.7 36.19N 137.59E 34–32 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ56.00000°,λ26.00000°. NP2:ϕ_s265.00000°,δ68.00000°,λ143.00000°. $M_0$1.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=17.9km s-min=9.4km az=164.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s2.00000°,δ74.00000°,λ41.00000°. NP2:ϕ_s259.00000°,δ51.00000°,λ159.00000°. Principal axes: T Plg40.0000°,Azm228.0000°; N Plg47.0000°,Azm21.0000°; P Plg14.0000° ,Azm126.0000°
IDC Error ellipse: s-maj=36.9km s-min=11.9km az=56.0.
JMA VI 06 11 28 56.7–.20 36.54N 137.69E 1–2 0.6
¶600633026
JMA VI 06 21 38 30.0 37.17N 140.70E 7–2 2.6
¶600633360
JMA VI 07 00 06 17.3 37.02N 140.58E 7–1 1.1
¶17205440
ISC VI 09 02 33 18.6–1.2 39.22N–.04 141.91E–.09 51–8 23 0-59
IDC VI 09 02 33 09.2–2.5 39.36N 142.50E 0 3.6,3.4 **¶17205584**
ISCJB VI 09 02 33 17.7–.89 39.19N–.04 141.89E–.09 60–5 3.2b,3.4
JMA VI 09 02 33 18.8 39.21N 141.84E 54–1 3.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=50.3km s-min=35.2km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=6.3km az=16.1.
JMA VI 09 04 14 32.7 37.02N 140.60E 9–1 1.2
¶603482756
IDC VI 09 04 14 57.8–5.9 37.12N 139.90E 0 4.1,3.8
¶17205594
IDC Error ellipse: s-maj=115.8km s-min=42.7km az=12.0.
ISC VI 09 04 47 09.4–.86 39.67N–.04 140.83E–.05 10 3.9b 23 0-63
NIED VI 09 04 47 00 39.60N 140.60E 14 3.3W **¶16580439**
IDC VI 09 04 47 07.3–1.8 39.87N 141.25E 0 3.9,3.8
ISCJB VI 09 04 47 10.0–.46 39.63N–.03 140.69E–.04 10 3.7b,3.8
JMA VI 09 04 47 10.7 39.61N 140.63E 4–1 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ28.00000°,λ-26.00000°. NP2:ϕ_s26.00000°,δ78.00000°,λ-116.00000°. $M_0$1.10000×10^{14}
IDC Error ellipse: s-maj=44.2km s-min=20.5km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=155.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s214.00000°,δ90.00000°,λ100.00000°. NP2:ϕ_s304.00000°,δ10.00000°,λ0.00000°. Principal axes: T Plg44.0000°,Azm134.0000°; N Plg10.0000°,Azm34.0000°; P Plg44.0000° ,Azm294.0000°
JMA VI 10 07 06 50.6 37.00N 140.62E 7–1 2.7
¶600636386
JMA VI 10 13 39 42.9 37.81N 140.01E 9–1 1.1
¶603244031
JMA VI 10 16 57 21.4 37.00N 140.60E 10–1 2.8
¶600636769
JMA VI 11 00 04 27.0 36.50N 138.14E 7–1 0.3
¶600637005
JMA VI 11 06 33 26.0 37.67N 139.94E 9–1 2.0
¶603482764
ISC VI 11 21 16 48.6–.90 37.09N–.03 140.72E–.04 11–6 3.5b 23 0-61
IDC VI 11 21 16 47.2–1.3 37.00N 140.89E 0 3.8,3.6 **¶17205796**
ISCJB VI 11 21 16 48.4–1.8 37.07N–.03 140.78E–.05 15–13 3.6b,3.6
JMA VI 11 21 16 48.6 37.10N 140.69E 9–1 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=20.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=25.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ49.00000°,λ-107.00000°. NP2:ϕ_s219.00000°,δ43.00000°,λ-71.00000°. Principal axes: T Plg3.0000°,Azm116.0000°; N Plg13.0000°,Azm25.0000°; P Plg77.0000° ,Azm219.0000°
JMA VI 11 23 44 16.3 37.02N 140.68E 9–1 2.8
¶600637794
ISC VI 14 09 23 58.8–.92 37.04N–.03 140.80E–.05 10–6 3.6b 25 0-61
ISCJB VI 14 09 23 57.9–.72 37.01N–.03 140.89E–.06 12–3 3.6b **¶17206104**
IDC VI 14 09 23 57.5–1.4 37.06N 140.77E 0 3.6,3.6
JMA VI 14 09 23 59.0 37.02N 140.77E 8–1 3.1,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.3km az=7.3.
IDC Error ellipse: s-maj=21.2km s-min=17.8km az=168.0.
JMA Event type fe.
ISC VI 14 16 51 40.7–.87 38.98N–.05 140.95E–.04 10–7 23 0-63
NIED VI 14 16 51 00 39.00N 140.90E 5 3.7W **¶17206125**
ISCJB VI 14 16 51 40.0–.54 39.04N–.03 140.90E–.04 11–5 3.8b
IDC VI 14 16 51 39.8–1.6 38.88N 141.20E 0 3.7,3.7b
JMA VI 14 16 51 40.3 39.04N 140.87E 5–1 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ72.00000°,λ16.00000°. NP2:ϕ_s112.00000°,δ75.00000°,λ161.00000°. $M_0$3.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.4km az=161.7.

IDC Error ellipse: s-maj=41.3km s-min=22.8km az=93.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s302.00000°,δ77.00000°,λ-148.00000°. NP2:ϕ_s203.00000°,δ58.00000°,λ-15.00000°. Principal axes: T Plg12.0000°,Azm69.0000°; N Plg55.0000°,Azm321.0000°; P Plg32.0000° ,Azm167.0000°
JMA VI 17 01 45 33.7–.10 35.11N 138.08E 31–1 0.6
¶600642242
ISC VI 17 19 48 22.7–2.0 36.20N–.08 137.58E–.06 5–14 13 0-60
NIED VI 17 19 48 00 36.20N 137.40E 11 3.7W **¶16631482**
ISCJB VI 17 19 48 23.2–1.3 36.10N–.08 137.47E–.05 9–8 3.3b
JMA VI 17 19 48 24.4 36.16N 137.44E 7–1 3.8
IDC VI 17 19 48 26.6–2.2 36.24N 137.56E 33–28 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ86.00000°,λ3.00000°. NP2:ϕ_s252.00000°,δ87.00000°,λ176.00000°. $M_0$4.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.5km az=166.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s69.00000°,δ75.00000°,λ165.00000°. NP2:ϕ_s163.00000°,δ75.00000°,λ15.00000°. Principal axes: T Plg21.0000°,Azm26.0000°; N Plg69.0000°,Azm206.0000°; P Plg0.0000° ,Azm116.0000°
IDC Error ellipse: s-maj=30.7km s-min=10.0km az=59.0.
ISC VI 18 04 39 04.7–.56 37.05N–.03 140.70E–.03 16–3 4.5b,3.7s 230 0-147
NIED VI 18 04 39 00 37.10N 140.70E 8 4.4W,3.7s **¶603244155**
BJI VI 18 04 39 02.1 36.86N 140.75E 20 4.8b,4.6b
ISCJB VI 18 04 39 04.3–.35 37.07N–.02 140.61E–.03 23–2 4.5b,3.6s
JMA VI 18 04 39 04.6 37.06N 140.63E 15–1 4.6,3.6s
MOS VI 18 04 39 05.5–1.1 37.12N 140.51E 33 4.7b,3.6s
IDC VI 18 04 39 08.8–1.9 37.09N 140.46E 49–18 4.4,4.3L
NEIC VI 18 04 39 08.6–.48 37.12N 140.46E 43–4 4.6b,4.3L
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ22.00000°,λ-19.00000°. NP2:ϕ_s244.00000°,δ83.00000°,λ-111.00000°. $M_0$4.54000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=36.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s251.00000°,δ76.00000°,λ-125.00000°. NP2:ϕ_s142.00000°,δ38.00000°,λ-23.00000°. Principal axes: T Plg23.0000°,Azm7.0000°; N Plg34.0000°,Azm260.0000°; P Plg47.0000° ,Azm124.0000°
MOS Error ellipse: s-maj=9.0km s-min=5.6km az=98.0.
IDC Error ellipse: s-maj=15.9km s-min=11.2km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=131.0. Felt at Tokai. Recorded [4 JMA] in Fukushima.
JMA VI 18 09 11 19.9 37.00N 140.56E 6–1 2.8
¶603244161
JMA VI 19 03 31 22.6 37.08N 140.78E 8–1 2.6
¶600644345
JMA Event type fe.
JMA VI 19 13 12 08.3 37.08N 140.68E 10–1 1.3
¶600644658
ISC VI 19 21 17 09.1–1.5 37.10N–.04 140.92E–.07 4–9 3.7b 19 0-67
NIED VI 19 21 17 00 37.10N 140.90E 8 3.5W **¶16638791**
ISCJB VI 19 21 17 08.0–.99 37.09N–.03 140.97E–.07 8–4 3.6b,3.5s
IDC VI 19 21 17 07.9–2.2 37.09N 140.99E 0 3.7,3.6b
JMA VI 19 21 17 09.4 37.11N 140.86E 7 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ22.00000°,λ-104.00000°. NP2:ϕ_s240.00000°,δ68.00000°,λ-84.00000°. $M_0$2.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=15.5.
IDC Error ellipse: s-maj=46.9km s-min=28.5km az=36.0.
JMA Event type fe.
ISC VI 19 21 55 30.6–1.6 37.07N–.05 140.93E–.07 7–8 4.0s 20 0-74
IDC VI 19 21 55 30.8–2.4 36.91N 141.03E 0 4.0,3.9s **¶16638792**
ISCJB VI 19 21 55 31.7–.96 37.10N–.03 140.90E–.07 8–4 4.0s,3.4b
JMA VI 19 21 55 32.6 37.12N 140.83E 8–1 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=41.9km s-min=28.3km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.1km az=17.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s229.00000°,δ53.00000°,λ-95.00000°. NP2:ϕ_s58.00000°,δ37.00000°,λ-83.00000°. Principal axes: T Plg8.0000°,Azm323.0000°; N Plg4.0000°,Azm232.0000°; P Plg81.0000° ,Azm116.0000°
JMA VI 21 21 14 56.3 37.11N 140.86E 8–1 1.9
¶16643044
ISC VI 22 18 56 54.9–1.2 36.80N–.04 138.59E–.03 2–12 21 0-57
ISCJB VI 22 18 56 54.4–.69 36.80N–.04 138.58E–.04 13–5 3.7b,2.9s **¶17206771**
JMA VI 22 18 56 54.6–.20 36.80N 138.59E 1–3 3.2,2.9s
IDC VI 22 18 56 54.4–2.0 36.80N 138.61E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.4km az=149.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ84.00000°,λ-8.00000°. NP2:ϕ_s107.00000°,δ82.00000°,λ-174.00000°. Principal axes: T Plg1.0000°,Azm62.0000°; N Plg80.0000°,Azm158.0000°; P Plg10.0000° ,Azm332.0000°
IDC Error ellipse: s-maj=12.7km s-min=12.1km az=57.0.
ISC VI 23 08 09 29.4–1.1 37.00N–.04 140.54E–.03 13–9 3.3b 21 0-57
IDC VI 23 08 09 28.0–1.4 36.95N 140.62E 0 3.8,3.5 **¶17206806**
ISCJB VI 23 08 09 29.6–.54 36.99N–.03 140.57E–.04 16–7 3.5b,3.5
JMA VI 23 08 09 29.7 37.00N 140.51E 5–2 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=23.7km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=39.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s136.00000°,δ52.00000°,λ-79.00000°. NP2:ϕ_s298.00000°,δ39.00000°,λ-104.00000°. Principal axes: T Plg7.0000°,Azm218.0000°; N Plg9.0000°,Azm309.0000°; P Plg79.0000° ,Azm90.0000°
ISC VI 24 00 36 41.3–1.0 37.67N–.03 139.93E–.03 10–7 3.9b 39 0-91
NIED VI 24 00 36 00 37.70N 139.90E 5 3.7W **¶16652958**
IDC VI 24 00 36 39.7–.88 37.66N 139.98E 0 4.0,3.8
ISCJB VI 24 00 36 41.5–.47 37.68N–.03 139.96E–.04 21–4 3.9b,3.8
JMA VI 24 00 36 41.4 37.68N 139.93E 9–1 3.7,3.8
NEIC VI 24 00 36 45.1–.50 37.67N 139.90E 35 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ47.00000°,λ120.00000°. NP2:ϕ_s354.00000°,δ51.00000°,λ62.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=12.6km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.0km az=41.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ58.00000°,λ131.00000°. NP2:ϕ_s351.00000°,δ50.00000°,λ44.00000°. Principal axes: T Plg56.0000°,Azm195.0000°; N Plg34.0000°,Azm25.0000°; P Plg5.0000° ,Azm292.0000°
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.4km az=136.0.
ISC VI 24 14 39 02.9–1.2 38.32N–.03 140.71E–.03 11–8 21 0-58
IDC VI 24 14 38 49.3–3.4 39.91N 140.94E 0 3.5,3.3 **¶17206877**
IASPE VI 24 14 39 02.6–1.1 38.32N–.03 140.71E–.03 14–8 3.5,3.3
ISCJB VI 24 14 39 02.7–.48 38.31N–.02 140.72E–.04 12–3 3.3b,3.3
JMA VI 24 14 39 03.1 38.32N 140.70E 12–1 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=84.4km s-min=34.3km az=69.0.
IASPE Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=94.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=10.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ51.00000°,λ80.00000°. NP2:ϕ_s42.00000°,δ40.00000°,λ101.00000°. Principal axes: T Plg81.0000°,Azm69.0000°; N Plg7.0000°,Azm213.0000°; P Plg5.0000° ,Azm304.0000°
ISC VI 25 08 01 51.1–1.3 37.07N–.03 140.95E–.06 7–7 3.9b 41 0-147
NIED VI 25 08 01 00 37.10N 140.90E 5 3.7W **¶603244185**
IDC VI 25 08 01 49.7–.95 37.05N 140.93E 0 4.1,3.9
ISCJB VI 25 08 01 50.0–.77 37.07N–.03 141.01E–.05 10–4 3.9b,3.8s
JMA VI 25 08 01 51.7 37.10N 140.85E 9–1 4.0,3.8s

NEIC VI 25 08 01 55.7–1.2 37.09N 140.95E 41–10 4.3b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s75.00000°,δ37.00000°,λ-54.00000°. NP2:ϕ_s213.00000°,δ61.00000°,λ-114.00000°. $M_0$4.49000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=20.8km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=12.9.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=15.0km s-min=10.5km az=133.0. Recorded [3 JMA] in Fukushima.

ISC	**VI**	**25 20 11 35.1–1.2**	**39.58N–.03**	**140.67E–.03**	**4–8**	**3.8b**	**33**	**0-146**
NIED	VI	25 20 11 00	39.60N	140.60E	5	3.8W		**¶603244187**
ISCJB	VI	25 20 11 34.2–.68	39.60N–.03	140.67E–.04	13–4	3.7b,3.1s		
JMA	VI	25 20 11 34.6	39.60N	140.63E	4–1	3.9,3.1s		
IDC	VI	25 20 11 41.0–2.0	39.53N	140.58E	56–19	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ50.00000°,λ28.00000°. NP2:ϕ_s182.00000°,δ69.00000°,λ136.00000°. $M_0$6.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=143.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ72.00000°,λ132.00000°. NP2:ϕ_s289.00000°,δ45.00000°,λ26.00000°. Principal axes: T Plg46.0000°,Azm133.0000°; N Plg40.0000°,Azm344.0000°; P Plg16.0000° ,Azm240.0000°
IDC Error ellipse: s-maj=19.5km s-min=12.1km az=113.0.

ISC	**VI**	**26 09 40 16.7–.94**	**40.26N–.03**	**140.41E–.04**	**15–7**	**3.6b**	**25**	**0-64**
IDC	VI	26 09 40 15.0–1.1	40.09N	140.44E	0	3.7,3.5		**¶17206971**
ISCJB	VI	26 09 40 16.3–.49	40.23N–.03	140.37E–.05	21–6	3.5b,3.5		
JMA	VI	26 09 40 16.6	40.24N	140.38E	13–1	3.7,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=17.7km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.1km az=167.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s140.00000°,δ65.00000°,λ30.00000°. NP2:ϕ_s37.00000°,δ63.00000°,λ152.00000°. Principal axes: T Plg38.0000°,Azm359.0000°; N Plg52.0000°,Azm177.0000°; P Plg1.0000° ,Azm268.0000°

JMA	**VI**	**26 22 57 54.7**	**37.03N**	**140.65E**	**10–1**	**3.6**		
NIED	VI	26 22 57 00	37.00N	140.70E	5	3.3W		**¶600649726**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s103.00000°,δ56.00000°,λ-75.00000°. NP2:ϕ_s258.00000°,δ36.00000°,λ-111.00000°. Principal axes: T Plg10.0000°,Azm183.0000°; N Plg12.0000°,Azm275.0000°; P Plg74.0000° ,Azm54.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ49.00000°,λ-57.00000°. NP2:ϕ_s56.00000°,δ51.00000°,λ-123.00000°. $M_0$1.05000×10^{14}

ISC	**VI**	**27 11 48 39.6–.96**	**37.03N–.03**	**140.60E–.03**	**11–8**		**23**	**0-61**
IDC	VI	27 11 48 38.6–2.1	36.91N	140.64E	0	3.5,3.5		**¶17207069**
ISCJB	VI	27 11 48 39.1–.50	37.02N–.03	140.65E–.05	18–6	3.6b,3.5		
JMA	VI	27 11 48 39.5	37.04N	140.57E	9–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=35.7km s-min=21.9km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=9.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ60.00000°,λ-120.00000°. NP2:ϕ_s140.00000°,δ42.00000°,λ-49.00000°. Principal axes: T Plg10.0000°,Azm22.0000°; N Plg26.0000°,Azm287.0000°; P Plg62.0000° ,Azm132.0000°

ISC	**VI**	**28 03 45 04.8–.76**	**37.12N–.03**	**140.82E–.04**	**13–4**	**4.3b,3.3s**	**98**	**0-147**
NIED	VI	28 03 45 00	37.10N	140.90E	5	4.0W,3.3s		**¶603244192**
ISCJB	VI	28 03 45 03.5–.66	37.12N–.03	140.94E–.05	15–4	4.3b,3.3s		
JMA	VI	28 03 45 04.1	37.12N	140.87E	9–1	4.3,3.3s		
BJI	VI	28 03 45 07.0	37.09N	140.78E	40	4.8b,4.5s		
NEIC	VI	28 03 45 08.5–.65	37.12N	140.82E	39–6	4.7b,4.5s		
IDC	VI	28 03 45 09.7–2.5	37.03N	140.74E	50–22	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ26.00000°,λ-107.00000°. NP2:ϕ_s238.00000°,δ65.00000°,λ-82.00000°. $M_0$1.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=25.1.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.5km az=133.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.2km s-min=14.0km az=90.0.

ISC	**VI**	**29 01 51 03.0–1.5**	**37.12N–.04**	**140.96E–.06**	**5–8**	**3.7b**	**31**	**0-82**
NIED	VI	29 01 51 00	37.10N	140.90E	5	3.8W		**¶16721028**
ISCJB	VI	29 01 51 01.7–.91	37.13N–.04	141.02E–.06	8–4	3.8b		
JMA	VI	29 01 51 03.8	37.14N	140.86E	7–1	3.8		
IDC	VI	29 01 51 08.8–3.9	37.12N	140.99E	52–31	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ26.00000°,λ-81.00000°. NP2:ϕ_s215.00000°,δ65.00000°,λ-94.00000°. $M_0$5.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=27.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s55.00000°,δ56.00000°,λ-75.00000°. NP2:ϕ_s209.00000°,δ37.00000°,λ-111.00000°. Principal axes: T Plg10.0000°,Azm134.0000°; N Plg13.0000°,Azm226.0000°; P Plg74.0000° ,Azm7.0000°
IDC Error ellipse: s-maj=27.9km s-min=20.8km az=106.0.

ISC	**VI**	**29 02 04 55.4–1.2**	**37.13N–.04**	**140.88E–.06**	**7–6**	**3.7b**	**23**	**0-82**
ISCJB	VI	29 02 04 53.8–.94	37.13N–.05	141.00E–.06	6–4	3.5b		**¶603244197**
IDC	VI	29 02 04 53.9–1.2	37.10N	140.98E	0	3.8,3.6		
JMA	VI	29 02 04 55.8	37.13N	140.85E	7–1	3.3,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.5km az=43.3.
IDC Error ellipse: s-maj=29.5km s-min=23.4km az=137.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s8.00000°,δ54.00000°,λ-106.00000°. NP2:ϕ_s214.00000°,δ39.00000°,λ-69.00000°. Principal axes: T Plg8.0000°,Azm109.0000°; N Plg13.0000°,Azm17.0000°; P Plg75.0000° ,Azm230.0000°

ISC	**VI**	**29 05 27 19.4–1.2**	**37.72N–.03**	**140.02E–.04**	**7–10**		**23**	**0-58**
IDC	VI	29 05 27 17.5–2.4	37.76N	140.08E	0	3.8,3.5b		**¶603244199**
ISCJB	VI	29 05 27 20.3–.58	37.69N–.03	139.95E–.03	9–5	3.4b,3.5b		
JMA	VI	29 05 27 20.7	37.68N	139.94E	8–1	3.3,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=40.7km s-min=35.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=140.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s242.00000°,δ60.00000°,λ133.00000°. NP2:ϕ_s0.00000°,δ51.00000°,λ40.00000°. Principal axes: T Plg53.0000°,Azm206.0000°; N Plg37.0000°,Azm37.0000°; P Plg5.0000° ,Azm303.0000°

ISC	**VI**	**29 10 32 40.0–.78**	**36.20N–.03**	**137.99E–.03**	**10**	**3.5b**	**24**	**0-60**
ISCJB	VI	29 10 32 38.6–.42	36.21N–.03	137.96E–.03	10	3.5b,2.9s		**¶16686675**
JMA	VI	29 10 32 38.8	36.19N	137.95E	4–1	3.4,2.9s		
IDC	VI	29 10 32 39.1–1.0	36.22N	137.94E	0	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=4.0km az=137.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ74.00000°,λ143.00000°. NP2:ϕ_s345.00000°,δ55.00000°,λ20.00000°. Principal axes: T Plg37.0000°,Azm199.0000°; N Plg50.0000°,Azm43.0000°; P Plg12.0000° ,Azm298.0000°
IDC Error ellipse: s-maj=12.2km s-min=7.7km az=123.0.

JMA	**VI**	**29 20 26 36.4**	**36.19N**	**137.95E**	**4–1**	**1.5**		
								¶600652669
ISC	**VI**	**29 23 16 40.2–.49**	**36.21N–.03**	**137.98E–.03**	**14–2**	**4.8b,4.5s**	**391**	**0-151**
NIED	VI	29 23 16 00	36.20N	138.00E	5	5.0W,4.5s		**¶16686686**
BJI	VI	29 23 16 33.6	36.03N	138.39E	2	5.1b,5.0s		
IDC	VI	29 23 16 37.2–.49	36.25N	137.87E	0	4.4,4.4		
JMA	VI	29 23 16 37.0	36.19N	137.95E	4–1	5.4,4.4		
NEIC	VI	29 23 16 40.2–.19	36.26N	137.68E	10	4.9b,4.4		
GCMT	VI	29 23 16 40.2–.20	36.24N	137.84E	12	5.0W,4.4		
ISCJB	VI	29 23 16 41.3–.17	36.29N–.03	137.75E–.03	26	4.7b,4.5s		
MOS	VI	29 23 16 43.3–1.1	36.68N	137.71E	29	4.9b,4.5s		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ70.00000°,λ167.00000°. NP2:ϕ_s349.00000°,δ78.00000°,λ20.00000°. $M_0$3.15000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=6.0km az=142.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s77.00000° ,δ87.00000°,λ-166.00000°. NP2:ϕ_s347.00000°,δ76.00000°,λ-3.00000°. Principal axes: T Plg8.0000°,Azm211.0000°; N Plg75.0000°,Azm88.0000°; P Plg12.0000°,Azm303.0000°
NEIC Event type de. Error ellipse: s-maj=5.8km s-min=4.5km az=141.0. At least 7 people injured at Nagano. Felt at Matsumoto and Nishin. Recorded [5U JMA] in Nagano.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c59; s102,c169; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.42±.08 $M_{\theta\theta}$1.18±.07; $M_{\phi\phi}$-1.60±.07; $M_{r\theta}$-1.52±.19; $M_{\theta\phi}$-3.25±.06; $M_{\phi r}$-1.25±.20; Best double couple: NP1:ϕ_s79.00000°,δ84.00000° ,λ-156.00000°. NP2:ϕ_s346.00000°,δ66.00000°,λ-6.00000°. Principal axes: T 3.4570,Plg13.0000°,Azm210.0000°; N 1.0140,Plg65.0000°,Azm91.0000° ; P -4.4740,Plg21.0000°,Azm305.0000° $M_0$3.96600×10^{16}
ISCJB Event type de. Error ellipse: s-maj=4.3km s-min=2.8km az=153.9.
MOS Error ellipse: s-maj=8.0km s-min=5.8km az=101.8.

JMA	**VI**	**29 23 21 25.0**	**36.19N**	**137.96E**	**5–1**	**1.1**		
								¶603731181
ISC	**VI**	**29 23 21 35.0–.94**	**36.19N–.02**	**137.94E–.03**	**5–6**	**4.6b**	**278**	**0-150**
NIED	VI	29 23 21 00	36.20N	138.00E	5	4.6W		**¶600652720**
BJI	VI	29 23 21 30.1	35.89N	138.34E	9	5.0b,4.8s		
JMA	VI	29 23 21 33.7	36.19N	137.95E	4–1	5.1,4.8s		
ISCJB	VI	29 23 21 33.1–.46	36.18N–.02	137.92E–.03	2–3	4.6s,4.5b		
IDC	VI	29 23 21 33.8–.53	36.16N	138.02E	0	4.3,4.2		
NEIC	VI	29 23 21 35.5–.26	36.15N	137.90E	10	4.7b,4.2		
MOS	VI	29 23 21 36.3–1.1	36.15N	137.93E	28	4.8b,4.2		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ48.00000°,λ167.00000°. NP2:ϕ_s339.00000°,δ80.00000°,λ42.00000°. $M_0$9.00000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s253.00000°,δ82.00000°,λ157.00000°. NP2:ϕ_s347.00000°,δ67.00000°,λ9.00000°. Principal axes: T Plg22.0000°,Azm208.0000°; N Plg66.0000°,Azm55.0000°; P Plg10.0000° ,Azm302.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=35.7.
IDC Error ellipse: s-maj=14.7km s-min=6.0km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=126.0. Felt at Matsumoto. Recorded [4 JMA] in Nagano.
MOS Error ellipse: s-maj=9.7km s-min=6.3km az=100.4.

ISC	**VI**	**30 04 18 06.7–1.2**	**39.86N–.02**	**141.12E–.03**	**2–8**	**3.9b**	**42**	**0-145**
NIED	VI	30 04 18 00	39.90N	141.10E	5	3.4W		**¶16686688**
ISCJB	VI	30 04 18 06.8–.49	39.85N–.02	141.11E–.05	15–5	3.9b		
IDC	VI	30 04 18 06.4–.68	39.82N	140.82E	0	3.9,3.8b		
JMA	VI	30 04 18 07.0	39.87N	141.15E	8–1	3.5,3.8b		
NEIC	VI	30 04 18 09.8–2.4	39.85N	140.87E	23–18	4.3b,3.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ33.00000°,λ88.00000°. NP2:ϕ_s352.00000°,δ57.00000°,λ91.00000°. $M_0$1.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=12.4.
IDC Error ellipse: s-maj=21.2km s-min=13.4km az=113.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ75.00000°,λ87.00000°. NP2:ϕ_s175.00000°,δ15.00000°,λ100.00000°. Principal axes: T Plg60.0000°,Azm251.0000°; N Plg3.0000°,Azm346.0000°; P Plg30.0000° ,Azm77.0000°
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.8km az=121.0.

JMA	**VI**	**30 05 11 36.2**	**36.20N**	**137.95E**	**4–1**	**3.4**		
								¶16686692

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s101.00000°,δ80.00000°,λ157.00000°. NP2:ϕ_s195.00000°,δ67.00000°,λ10.00000°. Principal axes: T Plg23.0000°,Azm56.0000°; N Plg65.0000°,Azm260.0000°; P Plg9.0000° ,Azm150.0000°

JMA	**VI**	**30 14 53 23.7**	**37.70N**	**139.93E**	**8–1**	**1.1**		
								¶600476765
JMA	**VI**	**30 14 53 49.4**	**36.21N**	**137.95E**	**5–1**	**1.7**		
								¶600476766

(228) Near east coast of eastern Honshu.

ISC	**I**	**02 13 53 40.2–.85**	**40.52N–.04**	**141.44E–.09**	**94–6**	**3.5b**	**33**	**0-72**
ISCJB	I	02 13 53 39.1–.57	40.53N–.03	141.5E–.10	102–3	3.6b		**¶17189222**
JMA	I	02 13 53 40.8–.10	40.52N	141.40E	91–1	3.3		
IDC	I	02 13 53 41.2–2.2	40.54N	141.55E	109–18	3.6,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=5.7km az=179.3.
JMA Event type fe.
IDC Error ellipse: s-maj=27.7km s-min=14.6km az=86.0.

ISC	**I**	**02 19 10 23.3–.48**	**36.80N–.05**	**141.40E–.06**	**35–3**	**4.4b,3.8s**	**154**	**1-147**
NIED	I	02 19 10 00	36.80N	141.50E	38	4.5W,3.8s		**¶15902881**
BJI	I	02 19 10 19.2	36.29N	141.52E	40	4.8b,4.7b		
ISCJB	I	02 19 10 21.2–.74	36.78N–.03	141.53E–.05	38–5	4.3b,3.8s		
JMA	I	02 19 10 22.6–.10	36.78N	141.38E	49–2	4.3,3.8s		
MOS	I	02 19 10 22.2–1.3	36.83N	141.41E	42	4.6b,3.8s		
IDC	I	02 19 10 23.6–.51	36.74N	141.31E	38–3	4.2L,4.1		
NEIC	I	02 19 10 23.5–.40	36.77N	141.32E	39	4.5b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ6.00000°,λ86.00000°. NP2:ϕ_s36.00000°,δ84.00000°,λ90.00000°. $M_0$5.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.9km az=31.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s41.00000°,δ82.00000°,λ97.00000°. NP2: ϕ_s176.00000°,δ11.00000°,λ46.00000°. Principal axes: T Plg52.0000°,Azm319.0000° ; N Plg7.0000°,Azm220.0000°; P Plg37.0000°,Azm124.0000°
MOS Error ellipse: s-maj=10.3km s-min=6.4km az=106.3.
IDC Error ellipse: s-maj=13.4km s-min=11.1km az=117.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=144.0. Recorded [2 JMA] in Fukushima and Ibaraki; [1 JMA] in Chiba, Miyagi and Tochigi.

JMA	**I**	**04 14 16 32.7–.10**	**37.17N**	**141.22E**	**86–1**	**3.7**		
NIED	I	04 14 16 00	37.20N	141.30E	65	3.5W		**¶600515629**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s205.00000°,δ63.00000°,λ-111.00000°. NP2: ϕ_s67.00000°,δ34.00000°,λ-54.00000°. Principal axes: T Plg16.0000°,Azm311.0000° ; N Plg19.0000°,Azm215.0000°; P Plg65.0000°,Azm78.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ63.00000°,λ-159.00000°. NP2:ϕ_s104.00000°,δ71.00000°,λ-29.00000°. $M_0$2.04000×10^{14}

ISC	**I**	**04 18 16 26.0–1.2**	**36.71N–.06**	**141.54E–.08**	**31–7**	**3.2b**	**25**	**1-57**
ISCJB	I	04 18 16 24.2–1.5	36.67N–.06	141.60E–.08	27–7	3.0b		**¶17189444**
JMA	I	04 18 16 26.1–.10	36.68N	141.43E	51–2	3.4		
IDC	I	04 18 16 26.0–.71	36.68N	141.68E	34–4	3.3L,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=8.1km az=36.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=7.1km az=1.0.

ISC	**I**	**05 06 27 46.5–1.6**	**36.47N–.04**	**141.21E–.07**	**18–8**	**3.6b**	**21**	**1-60**
ISCJB	I	05 06 27 46.5–1.0	36.45N–.04	141.23E–.07	29–5	3.4b		**¶17189486**
JMA	I	05 06 27 48.0–.10	36.46N	141.11E	45–2	2.9		
IDC	I	05 06 27 52.4–1.4	35.31N	140.19E	0	3.6,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.7km az=13.6.
IDC Error ellipse: s-maj=36.9km s-min=21.7km az=67.0.

ISC	**I**	**07 17 45 16.9–.47**	**35.15N–.04**	**141.29E–.07**	**27**	**4.2b,3.5s**	**75**	**1-84**
IDC	I	07 17 45 12.9–.59	35.13N	141.31E	0	4.2,4.1		**¶16021265**
ISCJB	I	07 17 45 15.0–.36	35.14N–.03	141.34E–.06	27	4.2b,3.5s		
NEIC	I	07 17 45 14.2–.35	35.12N	141.35E	10	4.4b,3.5s		
MOS	I	07 17 45 15.4–1.3	35.17N	141.36E	33	4.4b,3.5s		
JMA	I	07 17 45 16.1–.20	35.16N	141.30E	24–3	3.2,3.5s		

ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=12.6km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=11.1.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.9km az=89.0.
MOS Error ellipse: s-maj=15.1km s-min=7.5km az=104.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**I**	**08 16 15 37.5–1.3**	**35.29N–.05**	**141.87E–.09**	**22**	**3.4b**	**24**	**1-59**
NIED	I	08 16 15 00	35.30N	142.00E	23	4.2W		**¶600516793**
ISCJB	I	08 16 15 35.6–.87	35.28N–.04	141.93E–.08	22	3.9s,3.4b		
JMA	I	08 16 15 35.5–.30	35.34N	142.03E	57–5	3.6,3.4b		
IDC	I	08 16 15 46.6–1.1	34.04N	138.17E	0	3.6s,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ69.00000°,λ176.00000°. NP2:ϕ_s174.00000°,δ87.00000°,λ21.00000°. $M_0$1.98000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.4km az=179.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=37.8km s-min=18.7km az=61.0.

ISC	**I**	**09 02 21 39.7–1.5**	**35.82N–.04**	**140.22E–.07**	**31–11**	**3.6b**	**25**	**0-79**
NIED	I	09 02 21 00	35.90N	140.30E	86	4.0W		**¶17189735**
IDC	I	09 02 21 34.8–.80	35.78N	140.32E	0	3.9,3.8		
ISCJB	I	09 02 21 39.2–.59	35.79N–.04	140.38E–.07	48–5	3.6b,3.8		
JMA	I	09 02 21 41.1	35.87N	140.25E	43–1	3.5,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ57.00000°,λ174.00000°. NP2:ϕ_s69.00000°,δ85.00000°,λ33.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=23.2km s-min=14.8km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.7km az=172.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s72.00000°,δ71.00000°,λ77.00000°. NP2:ϕ_s288.00000°,δ23.00000°,λ124.00000°. Principal axes: T Plg62.0000°,Azm321.0000°; N Plg13.0000°,Azm76.0000°; P Plg25.0000° ,Azm172.0000°

ISC	**I**	**10 12 01 16.8–.92**	**36.49N–.05**	**140.41E–.06**	**108–7**	**3.5b**	**30**	**0-60**
ISCJB	I	10 12 01 15.7–.56	36.46N–.04	140.42E–.06	113–4	3.3b		**¶600517369**
IDC	I	10 12 01 15.5–2.0	36.50N	140.54E	96–16	3.6,3.3		
JMA	I	10 12 01 17.9–.10	36.51N	140.34E	100–1	3.2,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.7km az=12.5.
IDC Error ellipse: s-maj=22.8km s-min=10.0km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**I**	**11 16 01 15.6–.66**	**37.12N–.04**	**141.51E–.06**	**44–5**	**4.0b,3.1s**	**67**	**1-147**
NIED	I	11 16 01 00	37.20N	141.50E	41	4.1W,3.1s		**¶15920376**
ISCJB	I	11 16 01 13.4–.75	37.12N–.03	141.56E–.06	42–6	3.9b,3.4s		
JMA	I	11 16 01 15.4–.10	37.16N	141.41E	48–1	4.2,3.4s		
IDC	I	11 16 01 16.1–.70	37.12N	141.41E	47–6	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ20.00000°,λ113.00000°. NP2:ϕ_s13.00000°,δ71.00000°,λ82.00000°. $M_0$1.65000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.8km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s23.00000°,δ69.00000°,λ87.00000°. NP2: ϕ_s211.00000°,δ21.00000°,λ97.00000°. Principal axes: T Plg66.0000°,Azm288.0000° ; N Plg3.0000°,Azm24.0000°; P Plg24.0000°,Azm115.0000°
IDC Error ellipse: s-maj=15.0km s-min=11.5km az=130.0.

ISC	**I**	**11 20 20 49.3–2.2**	**37.03N–.06**	**141.5E–.10**	**31–11**		**22**	**1-42**
NIED	I	11 20 20 00	37.10N	141.20E	71	3.4W		**¶17189946**
IDC	I	11 20 20 39.3–10	36.77N	142.17E	0	3.3,3.3		
JMA	I	11 20 20 52.3–.10	37.06N	141.20E	50–1	3.4,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ19.00000°,λ144.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ74.00000°. $M_0$1.62000×10^{14}
IDC Error ellipse: s-maj=165.6km s-min=63.0km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**I**	**12 13 16 16.1–.95**	**35.57N–.05**	**140.05E–.05**	**75–8**	**3.5b**	**24**	**0-59**
NIED	I	12 13 16 00	35.60N	140.10E	77	3.7W		**¶17189996**
ISCJB	I	12 13 16 14.8–.61	35.55N–.04	140.07E–.06	85–5	3.7b		
JMA	I	12 13 16 15.7–.20	35.62N	140.06E	73–2	3.5		
IDC	I	12 13 16 18.0–1.6	35.42N	139.86E	90–15	3.6s,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ33.00000°,λ-41.00000°. NP2:ϕ_s291.00000°,δ69.00000°,λ-116.00000°. $M_0$4.67000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=6.1km az=145.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s299.00000°,δ68.00000°,λ-131.00000°. NP2: ϕ_s185.00000°,δ46.00000°,λ-32.00000°. Principal axes: T Plg13.0000°,Azm57.0000° ; N Plg37.0000°,Azm317.0000°; P Plg50.0000°,Azm163.0000°
IDC Error ellipse: s-maj=32.2km s-min=6.9km az=70.0.

ISC	**I**	**14 18 58 33.7–.81**	**35.63N–.05**	**140.18E–.06**	**71–7**	**3.8b**	**37**	**0-92**
NIED	I	14 18 58 00	35.70N	140.30E	68	4.0W		**¶17190205**
ISCJB	I	14 18 58 32.3–.49	35.64N–.04	140.21E–.06	75–4	3.6b		
IDC	I	14 18 58 32.9–1.9	35.61N	140.30E	66–16	3.8,3.7		
JMA	I	14 18 58 33.0–.10	35.73N	140.19E	62–1	3.4,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ29.00000°,λ87.00000°. NP2:ϕ_s350.00000°,δ61.00000°,λ92.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=145.2.
IDC Error ellipse: s-maj=24.9km s-min=10.3km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ88.00000°,λ90.00000°. NP2: ϕ_s187.00000°,δ2.00000°,λ76.00000°. Principal axes: T Plg47.0000°,Azm292.0000° ; N Plg0.0000°,Azm21.0000°; P Plg43.0000°,Azm111.0000°

ISC	**I**	**15 15 53 52.8–1.0**	**35.71N–.05**	**140.24E–.07**	**66–8**	**3.5b**	**23**	**0-56**
IDC	I	15 15 53 50.9–2.4	35.72N	140.52E	54–21	3.7,3.6		**¶17190265**
ISCJB	I	15 15 53 52.1–.69	35.68N–.04	140.24E–.07	71–5	3.5b,3.6		
JMA	I	15 15 53 52.8–.10	35.73N	140.19E	65–2	2.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=8.4km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.8km az=161.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**I**	**17 07 13 51.2–1.1**	**36.54N–.05**	**141.08E–.08**	**50–9**	**4.1b,2.8s**	**60**	**0-147**
NIED	I	17 07 13 00	36.50N	141.00E	56	3.9W,2.8s		**¶15931549**
ISCJB	I	17 07 13 50.2–.53	36.51N–.03	141.07E–.06	59–4	4.0b,2.8s		
JMA	I	17 07 13 51.3–.10	36.52N	140.98E	58–1	4.2,2.8s		
NEIC	I	17 07 13 51.2–.79	36.60N	141.05E	50–7	4.3b,2.8s		
IDC	I	17 07 13 52.0–2.1	36.51N	140.99E	58–21	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ56.00000°,λ40.00000°. NP2:ϕ_s59.00000°,δ58.00000°,λ138.00000°. $M_0$8.65000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.9km az=20.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s181.00000°,δ60.00000°,λ37.00000°. NP2:ϕ_s70.00000°,δ59.00000°,λ144.00000°. Principal axes: T Plg46.0000°,Azm36.0000°; N Plg44.0000°,Azm214.0000°; P Plg1.0000° ,Azm305.0000°
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=124.0. Recorded [3 JMA] in Ibaraki and [1 JMA] in Chiba, Fukushima, Gumma and Tochigi.
IDC Error ellipse: s-maj=18.8km s-min=11.7km az=78.0.

ISC	**I**	**19 19 27 34.9–.86**	**35.98N–.05**	**140.14E–.05**	**66–7**	**3.6b**	**36**	**0-92**
NIED	I	19 19 27 00	36.10N	140.10E	68	3.7W		**¶17190576**
ISCJB	I	19 19 27 33.9–.45	35.98N–.03	140.16E–.05	74–4	3.6b		
JMA	I	19 19 27 35.5–.10	36.02N	140.09E	63–1	3.5		
IDC	I	19 19 27 35.1–1.4	35.94N	140.18E	72–13	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ28.00000°,λ109.00000°. NP2:ϕ_s7.00000°,δ64.00000°,λ80.00000°. $M_0$3.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.7km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ62.00000°,λ83.00000°. NP2: ϕ_s196.00000°,δ28.00000°,λ102.00000°. Principal axes: T Plg72.0000°,Azm257.0000° ; N Plg6.0000°,Azm5.0000°; P Plg17.0000°,Azm97.0000°
IDC Error ellipse: s-maj=17.0km s-min=7.8km az=67.0.

JMA	**I**	**22 00 48 20.2–.10**	**37.21N**	**141.76E**	**73–2**	**3.3**		**¶602426844**

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**I**	**22 01 02 26.2–1.2**	**37.01N–.06**	**141.03E–.08**	**90–7**	**3.2b**	**27**	**0-57**
NIED	I	22 01 02 00	37.00N	141.00E	74	3.6W		**¶17190706**
ISCJB	I	22 01 02 25.0–.88	37.00N–.05	141.12E–.10	94–5	3.1b		
JMA	I	22 01 02 26.7–.10	37.02N	140.99E	89–1	3.6		
IDC	I	22 01 02 31.5–5.7	36.80N	140.38E	118–39	3.2,3.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ59.00000°,λ-35.00000°. NP2:ϕ_s249.00000°,δ61.00000°,λ-144.00000°. $M_0$2.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=6.8km az=25.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=63.7km s-min=22.8km az=67.0.

ISC	**I**	**24 05 12 48.2–1.0**	**34.58N–.05**	**140.56E–.06**	**43–10**	**3.8b**	**26**	**0-77**
ISCJB	I	24 05 12 47.5–.64	34.58N–.04	140.56E–.06	52–6	3.6b		**¶17190861**
JMA	I	24 05 12 47.0–.20	34.59N	140.63E	55–2	3.1		
IDC	I	24 05 12 49.8–2.4	34.53N	140.50E	58–20	3.6,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.8km az=166.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=7.6km az=78.0.

ISC	**I**	**25 05 24 41.2–.40**	**35.21N–.03**	**141.24E–.03**	**23–2**	**5.6b,5.1s**	**1454**	**1-162**
NIED	I	25 05 24 00	35.20N	141.40E	23	5.2W,5.1s		**¶15963195**
IDC	I	25 05 24 37.6–.37	35.16N	141.15E	0	5.5,5.5		
BJI	I	25 05 24 37.4	35.26N	141.27E	21	5.3s,5.1		
JMA	I	25 05 24 39.2–.20	35.18N	141.41E	39–3	5.3,5.1		
ISCJB	I	25 05 24 40.5–.48	35.12N–.02	141.16E–.02	27–3	5.5b,5.0s		
NEIC	I	25 05 24 40.1–.10	35.13N	141.12E	14	5.6b,5.1W		
MOS	I	25 05 24 41.8–.84	35.26N	141.06E	33	5.8b,5.1s		
GCMT	I	25 05 24 41.1–.10	35.10N	141.22E	19–0	5.3W,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ37.00000°,λ131.00000°. NP2:ϕ_s61.00000°,δ63.00000°,λ64.00000°. $M_0$7.07000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=10.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.1km az=157.5.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=147.0. Felt at Narita and Yokohama. Recorded [2 JMA] in Chiba and Saitama; [1 JMA] in Ibaraki, Kanagawa, Miyagi, Niigata and Tokyo. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}3.29 $M_{\theta\theta}$-3.62 $M_{\phi\phi}$0.32 $M_{r\theta}$5.06 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.56 Best double couple: NP1:ϕ_s271.00000° ,δ17.00000°,λ106.00000°. NP2:ϕ_s74.00000°,δ73.00000°,λ85.00000°. Principal axes: T 6.1800,Plg61.0000°,Azm337.0000°; N 0.3400,Plg5.0000°,Azm76.0000° ; P -6.5200,Plg28.0000°,Azm168.0000° $M_0$6.40000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=110.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s76,c126; s97,c197;Duration: 1♯1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.65±.02 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.05±.01; $M_{r\theta}$0.77±.04; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$0.02±.03; Best double couple: NP1:ϕ_s88.00000° ,δ69.00000°,λ92.00000°. NP2:ϕ_s261.00000°,δ21.00000°,λ84.00000°. Principal axes: T 0.9920,Plg66.0000°,Azm2.0000°; N 0.0590,Plg2.0000°,Azm267.0000° ; P -1.0500,Plg24.0000°,Azm176.0000° $M_0$1.02100×10^{17}

ISC	**I**	**25 08 24 26.9–1.1**	**35.58N–.05**	**140.03E–.06**	**76–8**		**28**	**0-59**
IDC	I	25 08 24 23.9–1.5	34.88N	137.69E	0	4.0L,3.9		**¶600521957**
ISCJB	I	25 08 24 25.8–.63	35.56N–.04	140.04E–.06	81–5	3.7b,3.9		
JMA	I	25 08 24 26.5–.20	35.63N	140.05E	71–2	3.4,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=54.0km s-min=19.4km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.7km az=145.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**I**	**27 13 31 12.2–1.2**	**35.20N–.06**	**141.3E–.10**	**27**	**3.4b**	**10**	**1-59**
IDC	I	27 13 31 09.8–1.4	35.05N	142.18E	0	3.7,3.4		**¶17191112**
ISCJB	I	27 13 31 10.5–.98	35.19N–.06	141.4E–.10	27	3.4b,3.4		
JMA	I	27 13 31 10.7–.10	35.17N	141.28E	15–3	2.6,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=52.5km s-min=28.9km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=8.0km az=164.2.

ISC	**I**	**28 07 41 45.4–.79**	**36.58N–.04**	**140.56E–.05**	**54–6**	**3.7b**	**39**	**0-91**
NIED	I	28 07 41 00	36.60N	140.60E	53	3.8W		**¶17191180**
ISCJB	I	28 07 41 44.3–.44	36.57N–.03	140.62E–.05	63–3	3.7b		
JMA	I	28 07 41 45.6–.10	36.56N	140.57E	55–1	3.8		
IDC	I	28 07 41 45.3–1.8	36.61N	140.58E	52–18	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ24.00000°,λ-72.00000°. NP2:ϕ_s198.00000°,δ67.00000°,λ-98.00000°. $M_0$5.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.7km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s188.00000°,δ60.00000°,λ-117.00000°. NP2:ϕ_s54.00000°,δ39.00000°,λ-52.00000°. Principal axes: T Plg11.0000°,Azm297.0000°; N Plg23.0000°,Azm202.0000°; P Plg64.0000° ,Azm52.0000°
IDC Error ellipse: s-maj=18.2km s-min=11.3km az=94.0.

ISC	**I**	**29 09 31 30.7–1.7**	**35.19N–.05**	**141.34E–.06**	**17–10**	**3.8b**	**32**	**1-91**
IDC	I	29 09 31 28.2–.70	35.11N	141.33E	0	4.1,3.9		**¶16005302**
ISCJB	I	29 09 31 30.7–.00	35.15N–.04	141.34E–.07	28–6	3.9b,3.9		
JMA	I	29 09 31 30.9–.10	35.19N	141.33E	32–3	3.2,3.9		
NEIC	I	29 09 31 33.0–.51	35.06N	141.31E	35	4.7b,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=14.9km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.4km az=176.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.2km az=78.0.

ISC	**I**	**29 17 34 15.3–1.2**	**36.24N–.06**	**141.58E–.08**	**26**	**3.4b**	**18**	**1-50**
IDC	I	29 17 34 10.1–4.3	36.04N	141.79E	0	3.4,3.3		**¶17191263**
JMA	I	29 17 34 14.3–.20	36.10N	141.67E	57–4	3.3,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=89.0km s-min=27.5km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**II**	**03 06 33 19.0–1.2**	**35.98N–.07**	**140.13E–.08**	**65–8**	**3.5b**	**19**	**0-51**
ISCJB	II	03 06 33 18.1–.95	35.98N–.06	140.13E–.09	72–5	3.5b		**¶17191578**
IDC	II	03 06 33 19.0–2.6	37.36N	139.81E	0	3.7,3.6b		
JMA	II	03 06 33 19.7	36.02N	140.08E	62–1	2.8,3.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.9km az=38.9.
IDC Error ellipse: s-maj=56.4km s-min=15.2km az=136.0.

JMA	**II**	**04 10 43 07.4–.10**	**39.11N**	**142.25E**	**58–1**	**3.6**		
NIED	II	04 10 43 00	39.10N	142.30E	26	3.7W		**¶600525331**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ67.00000°,λ-171.00000°. NP2:ϕ_s276.00000°,δ82.00000°,λ-23.00000°. $M_0$4.61000×10^{14}

ISC	**II**	**04 21 38 43.3–1.4**	**35.29N–.05**	**141.5E–.10**	**25**	**3.4b**	**17**	**1-59**
JMA	II	04 21 38 36.9–.40	35.33N	142.06E	27	3.4		**¶17191697**
ISCJB	II	04 21 38 40.1–1.1	35.27N–.06	141.77E–.10	25	3.4b		
IDC	II	04 21 38 41.0–2.1	35.27N	141.28E	0	3.4b,3.4		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.5km az=157.8.
IDC Error ellipse: s-maj=48.7km s-min=21.8km az=73.0.

ISC	**II**	**05 01 56 12.2–.34**	**34.78N–.02**	**140.56E–.03**	**53–2**	**5.2b,4.2s**	**1165**	**0-162**
NIED	II	05 01 56 00	34.80N	140.70E	62	5.1W,4.2s		**¶16006253**
BJI	II	05 01 56 04.5	34.76N	140.97E	36	5.0b,4.8b		
MOS	II	05 01 56 11.1–.98	34.80N	140.44E	53	5.4b,4.0s		
ISCJB	II	05 01 56 12.7–.22	34.77N–.02	140.44E–.02	66–1	5.1b,4.0s		
JMA	II	05 01 56 12.0–.10	34.86N	140.62E	64–2	5.2,4.0s		
NEIC	II	05 01 56 13.9–.43	34.77N	140.35E	65–4	5.2b,4.0s		
GCMT	II	05 01 56 13.9–.20	34.70N	140.58E	54–1	5.1W,4.0s		
IDC	II	05 01 56 13.5–.85	34.82N	140.46E	60–7	5.0,4.8		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ30.00000°,λ-168.00000°. NP2:ϕ_s121.00000°,δ84.00000°,λ-61.00000°. $M_0$4.74000×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=147.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=128.0. Felt [IV] at Zushi and [III] at Tokyo, Yokohama and Yokosuka. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba; [3 JMA] in Kanagawa, Shizuoka and Tokyo; [2 JMA] in Ibaraki, Nagano, Saitama and Yamanashi; [1 JMA] in Fukushima, Gumma, Miyagi, Niigata and Tochigi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c59; s103,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.26±.22 $M_{\theta\theta}$4.95±.14; $M_{\phi\phi}$-3.69±.16; $M_{r\theta}$-2.74±.12; $M_{\theta\phi}$0.35±.13; $M_{\phi r}$2.06±.12; Best double couple: NP1:ϕ_s128.00000°,δ82.00000° ,λ-41.00000°. NP2:ϕ_s224.00000°,δ50.00000°,λ-170.00000°. Principal axes: T 6.0030,Plg21.0000°,Azm183.0000°; N -0.8330,Plg49.0000°,Azm299.0000° ; P -5.1700,Plg34.0000°,Azm78.0000° $M_0$5.58700×10^{16}
IDC Error ellipse: s-maj=9.5km s-min=5.3km az=83.0.

ISC	**II**	**05 04 08 27.2–.80**	**36.10N–.05**	**141.32E–.07**	**26**	**3.6b**	**23**	**1-65**

IDC II 05 04 08 23.0–1.1 36.06N 141.53E 0 3.8L,3.7 **¶17191711**
ISCJB II 05 04 08 26.0–.67 36.18N–.04 141.36E–.07 26 3.5b,3.1s
JMA II 05 04 08 28.3–.10 36.10N 141.18E 45–2 3.4,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=20.9km az=37.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.8km az=23.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC II 05 10 00 16.1–.88 34.77N–.05 140.67E–.08 57–8 3.6b 23 0-66
NIED II 05 10 00 00 34.80N 140.60E 65 3.6W **¶17191728**
ISCJB II 05 10 00 14.8–.63 34.82N–.05 140.71E–.09 65–5 3.5b
JMA II 05 10 00 15.5–.20 34.85N 140.62E 64–2 3.7
IDC II 05 10 00 15.0–2.0 34.81N 140.75E 44–18 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ10.00000°,λ-108.00000°. NP2:ϕ_s96.00000°,δ81.00000°,λ-87.00000°. $M_0$3.35000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.5km az=164.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=7.3km az=80.0.
JMA II 06 03 10 12.6–.10 37.39N 141.79E 39–3 3.8
NIED II 06 03 10 00 37.40N 141.80E 29 3.6W **¶600526077**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ79.00000°,λ176.00000°. NP2:ϕ_s209.00000°,δ86.00000°,λ11.00000°. $M_0$2.64000×10^{14}
ISC II 07 10 20 28.3–2.3 36.00N–.04 141.68E–.07 12–15 3.5b 30 1-78
NIED II 07 10 20 00 36.10N 141.70E 32 3.9W **¶17191856**
IDC II 07 10 20 26.2–.93 35.94N 141.78E 0 3.7,3.5
ISCJB II 07 10 20 28.8–1.8 36.02N–.04 141.73E–.06 30–15 3.4b,3.5
JMA II 07 10 20 29.0–.20 36.08N 141.71E 39–4 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s274.00000°,δ59.00000°,λ177.00000°. NP2:ϕ_s5.00000°,δ87.00000°,λ31.00000°. $M_0$7.92000×10^{14}
IDC Error ellipse: s-maj=20.4km s-min=17.7km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.4km az=177.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC II 08 03 21 57.7–.88 34.93N–.04 140.11E–.04 58–6 3.4b 31 0-66
NIED II 08 03 21 00 35.00N 140.10E 47 3.7W **¶17191886**
ISCJB II 08 03 21 56.5–.52 34.92N–.04 140.11E–.05 63–4 3.3b
JMA II 08 03 21 56.7–.20 34.95N 140.14E 62–2 3.0
IDC II 08 03 21 58.1–2.2 34.86N 140.10E 62–27 3.4,3.4L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ32.00000°,λ133.00000°. NP2:ϕ_s180.00000°,δ67.00000°,λ67.00000°. $M_0$4.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=6.0km az=140.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.3km s-min=15.2km az=77.0.
ISC II 10 03 10 58.4–1.1 37.02N–.05 141.32E–.07 43–9 3.8b 46 0-117
ISCJB II 10 03 10 57.6–.72 37.03N–.04 141.33E–.07 52–5 3.8b **¶16168831**
NIED II 10 03 11 00 37.10N 141.20E 44 4.0W
IDC II 10 03 11 00.4–1.9 36.98N 141.30E 63–17 3.9,3.8
JMA II 10 03 11 00.0–.10 37.06N 141.13E 49–1 4.1,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.5km az=22.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ44.00000°,λ4.00000°. NP2:ϕ_s34.00000°,δ87.00000°,λ134.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=12.7km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s32.00000°,δ71.00000°,λ95.00000°. NP2: ϕ_s198.00000°,δ20.00000°,λ77.00000°. Principal axes: T Plg64.0000°,Azm309.0000° ; N Plg4.0000°,Azm210.0000°; P Plg26.0000°,Azm118.0000°
ISC II 10 04 20 15.1–2.1 36.64N–.04 141.47E–.05 16–13 4.0b,3.5s 62 1-147
NIED II 10 04 20 00 36.60N 141.30E 32 4.0W,3.5s **¶16136343**
IDC II 10 04 20 12.7–.58 36.62N 141.45E 0 4.1,4.0
ISCJB II 10 04 20 14.6–.84 36.62N–.03 141.49E–.04 25–5 4.0b,3.5s
NEIC II 10 04 20 16.7–1.9 36.59N 141.47E 28–14 4.4b,3.5s
JMA II 10 04 20 17.8–.10 36.66N 141.26E 47–2 4.3,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ11.00000°,λ-106.00000°. NP2:ϕ_s192.00000°,δ80.00000°,λ-87.00000°. $M_0$1.17000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=13.1km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=14.1.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC II 10 11 36 17.3–.95 35.35N–.05 140.08E–.05 66–7 3.6b 29 0-59
ISCJB II 10 11 36 16.1–.54 35.34N–.04 140.10E–.05 73–4 3.5b **¶17192009**
JMA II 10 11 36 16.6–.20 35.42N 140.09E 66–2 3.0
IDC II 10 11 36 17.1–5.0 35.32N 140.13E 64–31 3.5,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.1km az=42.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=73.8km s-min=6.1km az=68.0.
ISC II 10 13 03 03.5–.18 37.18N–.02 141.34E–.03 39–2 5.5b,4.9s 1792 0-164
NIED II 10 13 03 00 37.20N 141.40E 41 5.4W,4.9s **¶16019939**
BJI II 10 13 03 00.2 37.04N 141.41E 37 5.4b,5.3b
NEIC II 10 13 03 02.6–.10 37.15N 141.28E 33 5.5b,5.3W
MOS II 10 13 03 02.8–.81 37.42N 141.33E 36 5.7b,5.0s
GCMT II 10 13 03 02.6–.10 37.18N 141.55E 43–0 5.4W,5.0s
IDC II 10 13 03 03.5–.34 37.15N 141.36E 35–2 5.3,5.2
JMA II 10 13 03 03.6–.10 37.16N 141.41E 48–1 5.4,5.2
ISCJB II 10 13 03 03.7–.24 37.16N–.02 141.33E–.02 52–1 5.5b,4.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ19.00000°,λ96.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ88.00000°. $M_0$1.43000×10^{17}
NEIC Event type fe. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [4 JMA] in Fukushima; [3 JMA] in Ibaraki, Miyagi and Tochigi; [2 JMA] in Aomori, Chiba, Gumma, Iwate, Niigata, Saitama and Yamagata; [1 JMA] in Akita, Gifu, Kanagawa, Nagano, Shizuoka, Tokyo and Yamanashi. Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ28.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ64.00000°,λ80.00000°. Principal axes: T 0.9500,Plg69.0000°,Azm269.0000°; N 0.4900,Plg9.0000°,Azm24.0000° ; P -1.4400,Plg19.0000°,Azm118.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c187; s115,c233;Duration: 1$\bar{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.34±.02 $M_{\theta\theta}$-0.21±.02; $M_{\phi\phi}$-1.12±.02; $M_{r\theta}$0.43±.02; $M_{\theta\phi}$-0.58±.01; $M_{\phi r}$0.94±.02; Best double couple: NP1:ϕ_s25.00000°,δ64.00000°,λ89.00000°. NP2:ϕ_s207.00000°,δ26.00000°,λ91.00000°. Principal axes: T 1.6860,Plg71.0000°,Azm294.0000° ; N 0.0650,Plg1.0000°,Azm25.0000°; P -1.7460,Plg19.0000°,Azm116.0000° $M_0$1.71600×10^{17}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ47.00000°,λ93.00000°. NP2:ϕ_s22.00000°,δ43.00000°,λ87.00000°. Principal axes: T Plg87.0000°,Azm159.0000°; N Plg2.0000°,Azm24.0000°; P Plg2.0000° ,Azm294.0000°
ISCJB Event type fe.
ISC II 11 09 59 15.1–.73 35.59N–.05 140.10E–.05 66–6 3.7b 43 0-92
NIED II 11 09 59 00 35.60N 140.10E 62 3.8W **¶602734465**
ISCJB II 11 09 59 14.3–.36 35.50N–.04 140.06E–.05 77–3 3.6b
JMA II 11 09 59 14.4–.20 35.58N 140.09E 70–2 3.7
IDC II 11 09 59 15.3–1.5 35.46N 140.13E 70–15 3.7,3.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ31.00000°,λ79.00000°. NP2:ϕ_s115.00000°,δ60.00000°,λ96.00000°. $M_0$6.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.9km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s138.00000°,δ68.00000°,λ107.00000°. NP2: ϕ_s279.00000°,δ28.00000°,λ54.00000°. Principal axes: T Plg63.0000°,Azm75.0000° ; N Plg16.0000°,Azm311.0000°; P Plg21.0000°,Azm215.0000°
IDC Error ellipse: s-maj=21.2km s-min=6.6km az=68.0.
ISC II 13 03 14 52.1–.51 36.67N–.05 140.65E–.05 70–3 3.9b 60 0-91
NIED II 13 03 14 00 36.70N 140.60E 71 4.0W **¶16168846**
ISCJB II 13 03 14 51.2–.43 36.66N–.04 140.69E–.05 77–3 3.8b
IDC II 13 03 14 52.1–.47 36.67N 140.65E 70–3 4.0,3.9
JMA II 13 03 14 52.6 36.68N 140.59E 69–1 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s212.00000°,δ71.00000°,λ92.00000°. $M_0$1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.5km az=37.5.
IDC Error ellipse: s-maj=9.3km s-min=6.8km az=157.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ88.00000°,λ88.00000°. NP2:ϕ_s66.00000°,δ3.00000°,λ135.00000°. Principal axes: T Plg47.0000°,Azm109.0000°; N Plg2.0000°,Azm201.0000°; P Plg43.0000° ,Azm293.0000°
ISC II 15 19 06 53.6–.52 38.43N–.04 142.98E–.04 28–3 5.2s,5.2b 611 1-145
NIED II 15 19 06 00 38.40N 143.40E 17 5.0W,5.2b **¶16026458**
IDC II 15 19 06 47.7–.52 38.27N 143.24E 0 4.9,4.8
JMA II 15 19 06 49.5–.20 38.36N 143.39E 36 5.3,4.8
BJI II 15 19 06 50.1 38.32N 142.79E 11 5.5b,5.3b
GCMT II 15 19 06 51.4–.30 38.40N 143.45E 26–1 5.1W,5.3b
NEIC II 15 19 06 51.4–.20 38.39N 142.80E 10 5.2b,5.3b
ISCJB II 15 19 06 52.8–.14 38.44N–.02 142.89E–.03 28 5.2s,5.1b
MOS II 15 19 06 54.5–1.1 38.70N 142.82E 33 5.5b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ30.00000°,λ102.00000°. NP2:ϕ_s14.00000°,δ61.00000°,λ83.00000°. $M_0$3.70000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c28; s91,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.05±.30 $M_{\theta\theta}$-0.50±.16; $M_{\phi\phi}$-3.55±.19; $M_{r\theta}$1.11±.29; $M_{\theta\phi}$-1.03±.09; $M_{\phi r}$4.26±.32; Best double couple: NP1:ϕ_s15.00000°,δ69.00000° ,λ89.00000°. NP2:ϕ_s199.00000°,δ21.00000°,λ93.00000°. Principal axes: T 6.0140,Plg66.0000°,Azm283.0000°; N -0.1890,Plg1.0000°,Azm16.0000° ; P -5.8250,Plg24.0000°,Azm106.0000° $M_0$5.92000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=142.0. Recorded [1 JMA] in Fukushima, Iwate, Miyagi and Yamagata.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.1km az=144.3.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.3.
ISC II 16 01 30 17.1–.87 35.67N–.04 140.82E–.05 45–8 4.2b 86 0-148
NIED II 16 01 30 00 35.70N 140.80E 50 4.3W **¶16168861**
ISCJB II 16 01 30 16.3–.46 35.66N–.03 140.78E–.05 54–3 4.2b,2.6s
IDC II 16 01 30 16.9–2.0 35.67N 140.78E 40–18 4.1,4.1
NEIC II 16 01 30 17.1–.59 35.65N 140.80E 44–5 4.5b,4.1
JMA II 16 01 30 17.8–.10 35.72N 140.69E 46–1 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ89.00000°. NP2:ϕ_s11.00000°,δ70.00000°,λ90.00000°. $M_0$2.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=175.9.
IDC Error ellipse: s-maj=15.5km s-min=10.9km az=87.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=90.0. Recorded [2 JMA] in Chiba and [1 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ79.00000°,λ86.00000°. NP2: ϕ_s203.00000°,δ12.00000°,λ111.00000°. Principal axes: T Plg56.0000°,Azm266.0000° ; N Plg4.0000°,Azm2.0000°; P Plg34.0000°,Azm95.0000°
ISC II 16 06 17 41.3–.79 35.72N–.04 140.72E–.05 48–7 3.7b 36 0-79
NIED II 16 06 17 00 35.70N 140.90E 47 3.9W **¶17192348**
ISCJB II 16 06 17 40.0–.46 35.70N–.03 140.75E–.06 56–4 3.6b,2.9s
JMA II 16 06 17 40.7–.10 35.72N 140.70E 48–1 3.4,2.9s
IDC II 16 06 17 42.3–2.3 35.59N 140.55E 58–21 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ23.00000°,λ99.00000°. NP2:ϕ_s10.00000°,δ68.00000°,λ86.00000°. $M_0$9.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.7km az=177.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.7km s-min=11.7km az=78.0.
ISC II 16 09 14 01.3–.84 39.86N–.04 142.33E–.07 84–7 3.8b 50 0-145
ISCJB II 16 09 14 00.4–.48 39.88N–.03 142.31E–.07 91–3 3.9b **¶17192357**
NIED II 16 09 14 00 39.90N 142.30E 83 3.9W
IDC II 16 09 14 01.3–1.7 39.87N 142.30E 83–15 4.0,3.8
JMA II 16 09 14 01.5–.10 39.89N 142.30E 83–1 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.2km az=13.2.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ15.00000°,λ-110.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-85.00000°. $M_0$8.96000×10^{14}
IDC Error ellipse: s-maj=15.4km s-min=11.0km az=119.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 17 05 21 03.7–.74 35.64N–.05 140.21E–.06 72–6 3.9b 47 0-79
ISCJB II 17 05 21 02.9–.43 35.59N–.04 140.16E–.06 79–3 3.8b **¶17192401**
JMA II 17 05 21 02.7–.20 35.73N 140.23E 70–2 3.4
IDC II 17 05 21 02.8–1.6 35.61N 140.27E 60–13 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.5km az=144.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s20.00000°,δ90.00000°,λ90.00000°. NP2: ϕ_s290.00000°,δ2.00000°,λ178.00000°. Principal axes: T Plg45.0000°,Azm288.0000° ; N Plg2.0000°,Azm20.0000°; P Plg45.0000°,Azm112.0000°
IDC Error ellipse: s-maj=19.3km s-min=6.8km az=66.0.
ISC II 17 23 26 33.6–.38 36.72N–.04 141.23E–.04 32 4.5b,3.8s 204 1-117
NIED II 17 23 26 00 36.40N 141.50E 26 4.3W,3.8s **¶16031175**
ISCJB II 17 23 26 30.8–.27 36.55N–.03 141.35E–.04 32 4.5b,3.8s
JMA II 17 23 26 30.1–.10 36.38N 141.42E 51–3 4.3,3.8s
BJI II 17 23 26 31.4 36.45N 141.42E 47 4.9b,4.5b
IDC II 17 23 26 32.4–1.7 36.29N 141.40E 44–16 4.3,4.1
MOS II 17 23 26 32.8–.89 36.86N 141.25E 36 4.7b,4.1
NEIC II 17 23 26 35.1–.57 36.74N 141.17E 44–5 4.6b,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ27.00000°,λ27.00000°. NP2:ϕ_s56.00000°,δ78.00000°,λ115.00000°. $M_0$3.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.5km az=44.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=10.7km az=98.0.
MOS Error ellipse: s-maj=8.6km s-min=5.1km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=3.9km az=146.0. Felt at Kanagawa and Saitama. Recorded [2 JMA] in Ibaraki and [1 JMA] in Chiba, Fukushima and Tochigi.
ISC II 19 10 27 06.4–.94 36.97N–.05 140.84E–.07 96–6 3.5b 35 0-57
NIED II 19 10 27 00 37.00N 140.80E 107 3.6W **¶17192528**
ISCJB II 19 10 27 05.2–.61 36.97N–.04 140.87E–.07 100–3 3.4b
JMA II 19 10 27 07.1–.10 37.00N 140.79E 93–1 3.6
IDC II 19 10 27 08.2–2.4 36.82N 140.54E 106–20 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ29.00000°,λ-51.00000°. NP2:ϕ_s245.00000°,δ68.00000°,λ-109.00000°. $M_0$3.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.2km s-min=11.3km az=64.0.
ISC II 19 23 17 33.9–.77 37.14N–.04 141.42E–.07 40–8 3.9b 55 0-147
NIED II 19 23 17 00 37.20N 141.40E 50 4.0W **¶17192554**
ISCJB II 19 23 17 32.8–.69 37.13N–.03 141.43E–.07 46–5 3.9b
IDC II 19 23 17 34.9–1.4 37.13N 141.32E 48–14 4.0,3.9
JMA II 19 23 17 34.5–.10 37.16N 141.33E 48–1 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ17.00000°,λ76.00000°. NP2:ϕ_s25.00000°,δ73.00000°,λ94.00000°. $M_0$1.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=15.8.
IDC Error ellipse: s-maj=15.5km s-min=10.0km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s17.00000°,δ72.00000°,λ89.00000°. NP2: ϕ_s200.00000°,δ18.00000°,λ93.00000°. Principal axes: T Plg63.0000°,Azm286.0000° ; N Plg1.0000°,Azm18.0000°; P Plg27.0000°,Azm108.0000°
ISC II 21 05 08 44.1–1.0 36.71N–.07 141.62E–.09 19–5 3.6b 27 1-118
NIED II 21 05 08 00 36.80N 141.40E 32 3.7W **¶17192617**
JMA II 21 05 08 46.7–.10 36.76N 141.38E 53–2 3.6
IDC II 21 05 08 51.5–3.2 36.51N 141.29E 88–27 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ6.00000°,λ-129.00000°. NP2:ϕ_s212.00000°,δ85.00000°,λ-86.00000°. $M_0$3.36000×10^{14}

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.0km s-min=21.3km az=85.0.

ISC	**II**	**21 07 08 19.2–.93**	**36.91N–.07**	**140.13E–.06**	**100–6**	**3.5b**	**30**	**0-76**
ISCJB	II	21 07 08 18.5–.59	36.93N–.06	140.11E–.07	106–3	3.5b		**¶17192622**
IDC	II	21 07 08 19.4–2.1	36.85N	140.13E	105–28	3.6,3.5		
JMA	II	21 07 08 19.7–.10	36.88N	140.12E	96–1	3.2,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.0km az=143.7.
IDC Error ellipse: s-maj=66.4km s-min=24.1km az=180.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**II**	**21 11 34 04.5–.71**	**38.00N–.05**	**141.08E–.05**	**81–6**	**4.2b**	**78**	**0-77**
ISCJB	II	21 11 34 03.6–.37	37.98N–.03	141.07E–.05	89–2	4.0b		**¶600531296**
MOS	II	21 11 34 03.6–1.3	37.97N	141.13E	95	4.4b		
JMA	II	21 11 34 04.9	37.99N	141.02E	78–1	3.9		
IDC	II	21 11 34 06.3–1.4	38.00N	140.94E	97–13	4.5s,4.5		
NEIC	II	21 11 34 06.5–.64	38.00N	140.93E	100–5	4.5b,4.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.9km az=33.2.
MOS Error ellipse: s-maj=11.9km s-min=7.7km az=72.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s301.00000°,δ77.00000°,λ-60.00000°. NP2:ϕ_s52.00000°,δ33.00000°,λ-155.00000°. Principal axes: T Plg26.0000°,Azm8.0000°; N Plg29.0000°,Azm114.0000°; P Plg49.0000° ,Azm244.0000°
IDC Error ellipse: s-maj=16.1km s-min=9.5km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=5.8km az=129.0. Recorded [2 JMA] in Fukushima and Miyagi and [1 JMA] in Iwate.

ISC	**II**	**21 21 19 52.1–2.6**	**36.77N–.06**	**141.4E–.10**	**13–10**	**3.4b**	**22**	**1-57**
IDC	II	21 21 19 48.5–1.9	36.26N	141.59E	0	3.7,3.6		**¶17192660**
JMA	II	21 21 19 52.3–.20	36.76N	141.38E	50–2	3.2,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=46.2km s-min=25.3km az=54.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**II**	**22 09 25 50.9–1.8**	**36.61N–.07**	**141.2E–.10**	**33**	**3.5b**	**23**	**1-82**
IDC	II	22 09 25 47.7–6.6	36.93N	141.29E	0	3.7b,3.6		**¶17192693**
ISCJB	II	22 09 25 49.6–1.2	36.58N–.05	141.41E–.09	33	3.6s,3.4b		
JMA	II	22 09 25 51.3–.10	36.60N	141.26E	44–2	3.2,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=118.9km s-min=40.4km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.6km az=25.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**II**	**23 20 58 36.0–1.1**	**35.36N–.06**	**141.41E–.09**	**25**	**3.5b**	**22**	**1-59**
IDC	II	23 20 58 32.5–1.4	35.40N	141.48E	0	3.6,3.5		**¶17192759**
ISCJB	II	23 20 58 34.1–.83	35.36N–.05	141.58E–.08	25	3.5b,3.5		
JMA	II	23 20 58 37.9–.20	35.34N	141.30E	37–2	2.7,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=37.1km s-min=17.8km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.0km az=161.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**II**	**23 22 04 41.2–2.4**	**36.76N–.06**	**141.61E–.09**	**11–10**		**26**	**1-44**
IDC	II	23 22 04 30.6–7.4	35.80N	142.46E	0	3.5,3.4		**¶17192762**
JMA	II	23 22 04 44.0–.20	36.74N	141.42E	50–2	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=119.6km s-min=95.4km az=161.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**II**	**24 05 36 44.5–.86**	**36.29N–.06**	**140.05E–.06**	**80–6**	**3.5b**	**29**	**0-74**
NIED	II	24 05 36 00	36.30N	140.00E	71	3.8W		**¶17192772**
ISCJB	II	24 05 36 43.5–.62	36.28N–.05	140.06E–.06	86–3	3.4b		
JMA	II	24 05 36 45.4	36.30N	140.02E	73–1	3.6		
IDC	II	24 05 36 46.3–2.3	36.31N	139.95E	96–19	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ35.00000°,λ89.00000°. NP2:ϕ_s11.00000°,δ55.00000°,λ91.00000°. $M_0$4.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.8km az=143.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s0.00000°,δ60.00000°,λ83.00000°. NP2:ϕ_s193.00000°,δ30.00000°,λ101.00000°. Principal axes: T Plg74.0000°,Azm253.0000°; N Plg6.0000°,Azm3.0000°; P Plg15.0000° ,Azm95.0000°
IDC Error ellipse: s-maj=26.0km s-min=21.0km az=75.0.

ISC	**II**	**25 19 12 30.4–.34**	**34.38N–.03**	**140.35E–.03**	**61–2**	**4.9b**	**537**	**0-153**
NIED	II	25 19 12 00	34.40N	140.40E	59	5.2W		**¶16158978**
MOS	II	25 19 12 27.9–.92	34.33N	140.25E	50	5.2b,4.3s		
BJI	II	25 19 12 29.2	34.30N	140.20E	67	5.0b,4.7b		
JMA	II	25 19 12 29.4–.20	34.44N	140.37E	56–2	5.0,4.7b		
ISCJB	II	25 19 12 29.2–.27	34.35N–.02	140.30E–.02	62–2	4.8b,4.7b		
NEIC	II	25 19 12 31.2–.16	34.33N	140.24E	67	4.9b,4.7b		
GCMT	II	25 19 12 31.2–.10	34.43N	140.42E	51–1	5.3W,4.7b		
IDC	II	25 19 12 31.4–.45	34.35N	140.23E	67–3	4.7,4.6		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ22.00000°,λ-145.00000°. NP2:ϕ_s46.00000°,δ78.00000°,λ-72.00000°. $M_0$8.10000×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.2km az=115.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s40.00000°,δ79.00000°,λ-85.00000°. NP2: ϕ_s197.00000°,δ12.00000°,λ-113.00000°. Principal axes: T Plg34.0000°,Azm126.0000° ; N Plg5.0000°,Azm219.0000°; P Plg56.0000°,Azm316.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=3.1km az=139.2.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.8km az=148.0. Felt [II] at Yokosuka. Also felt at Higashikurume, Mishima and Yokohama. Recorded [3 JMA] on Miyake-jima; [2 JMA] on Kozu-shima and O-shima; [1 JMA] on Mikura-jima, Nii-jima, Shikane-jima and To-shima. Also recorded [2 JMA] in Chiba, Kanagawa, Shizuoka and Tokyo; [1 JMA] in Gumma, Ibaraki, Nagano, Saitama and Yamanashi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c128; s100,c207; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.58±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$-0.63±.01; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$-0.50±.02; Best double couple: NP1:ϕ_s45.00000°,δ72.00000° ,λ-69.00000°. NP2:ϕ_s174.00000°,δ28.00000°,λ-137.00000°. Principal axes: T 1.1180,Plg24.0000°,Azm119.0000°; N -0.0800,Plg20.0000°,Azm218.0000° ; P -1.0380,Plg58.0000°,Azm344.0000° $M_0$1.07800×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=5.3km az=92.0.

ISC	**II**	**26 06 55 48.9–2.2**	**36.42N–.06**	**141.33E–.10**	**16–10**	**3.5b**	**18**	**1-56**
IDC	II	26 06 55 46.4–2.1	36.40N	141.40E	0	3.4,3.3b		**¶17192891**
ISCJB	II	26 06 55 49.5–1.4	36.42N–.05	141.30E–.08	28–6	3.3b,3.3b		
JMA	II	26 06 55 51.8–.10	36.46N	141.16E	44–2	3.0,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=49.0km s-min=27.7km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.6km az=34.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**II**	**26 07 34 49.3–.58**	**37.13N–.04**	**141.62E–.06**	**40–5**	**4.0b**	**64**	**1-148**
NIED	II	26 07 34 00	37.20N	141.50E	38	3.9W		**¶16339060**
ISCJB	II	26 07 34 47.8–.71	37.12N–.03	141.61E–.06	45–6	4.0b,2.8s		
IDC	II	26 07 34 49.5–.56	37.11N	141.60E	40–4	3.9,3.9L		
JMA	II	26 07 34 49.8–.10	37.16N	141.45E	48–1	3.9,3.9L		
NEIC	II	26 07 34 50.6–.70	37.06N	141.57E	55–6	4.5b,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ18.00000°,λ80.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ93.00000°. $M_0$8.86000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.8km az=9.5.
IDC Error ellipse: s-maj=16.0km s-min=8.8km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s27.00000°,δ79.00000°,λ92.00000°. NP2: ϕ_s195.00000°,δ11.00000°,λ78.00000°. Principal axes: T Plg56.0000°,Azm300.0000° ; N Plg2.0000°,Azm207.0000°; P Plg34.0000°,Azm115.0000°
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.7km az=103.0. Recorded [2 JMA] in Fukushima and [1 JMA] in Ibaraki and Miyagi.

ISC	**II**	**26 09 57 47.2–.62**	**37.17N–.04**	**141.53E–.06**	**37–1**	**4.0b**	**79**	**1-147**
NIED	II	26 09 57 00	37.20N	141.50E	41	4.0W		**¶16398983**
ISCJB	II	26 09 57 45.3–.65	37.14N–.03	141.60E–.05	40–5	4.0b		
MOS	II	26 09 57 46.4–.77	37.20N	141.50E	47	4.1b		
IDC	II	26 09 57 47.6–2.0	37.19N	141.52E	40–18	4.0,3.9		
JMA	II	26 09 57 47.4–.10	37.17N	141.45E	48–1	4.1,3.9		
NEIC	II	26 09 57 47.8–.58	37.16N	141.54E	44–5	4.1b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ19.00000°,λ48.00000°. NP2:ϕ_s29.00000°,δ76.00000°,λ103.00000°. $M_0$1.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.4km az=19.0.
MOS Error ellipse: s-maj=10.5km s-min=7.8km az=91.5.
IDC Error ellipse: s-maj=15.3km s-min=11.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=121.0. Recorded [2 JMA] in Fukushima and [1 JMA] in Ibaraki, Miyagi and Tochigi.

ISC	**II**	**26 15 38 43.1–.34**	**37.32N–.03**	**141.78E–.03**	**27–2**	**5.4b,4.5s**	**924**	**1-155**
NIED	II	26 15 38 00	37.30N	141.90E	38	5.1W,4.5s		**¶16160048**
BJI	II	26 15 38 37.3	37.20N	141.86E	11	5.3b,5.2b		
MOS	II	26 15 38 41.9–.95	37.51N	141.68E	21	5.7b,4.3s		
GCMT	II	26 15 38 43.8–.20	37.35N	141.89E	36–0	5.1W,4.3s		
JMA	II	26 15 38 43.1–.20	37.30N	141.84E	43–3	5.2,4.3s		
NEIC	II	26 15 38 43.8–.15	37.36N	141.65E	27	5.2b,4.3s		
IDC	II	26 15 38 44.9–1.8	37.31N	141.80E	40–15	5.1,5.0		
ISCJB	II	26 15 38 44.3–.33	37.32N–.02	141.71E–.02	45–2	5.3b,4.5s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ22.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ81.00000°. $M_0$4.90000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c93; s94,c159;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.98±.20 $M_{\theta\theta}$-1.32±.13; $M_{\phi\phi}$-3.65±.13; $M_{r\theta}$0.99±.13; $M_{\theta\phi}$-1.85±.07; $M_{\phi r}$4.09±.13; Best double couple: NP1:ϕ_s19.00000°,δ66.00000°,λ83.00000°. NP2:ϕ_s217.00000°,δ25.00000°,λ106.00000°. Principal axes: T 6.6180,Plg69.0000°,Azm275.0000°; N -0.4310,Plg7.0000°,Azm22.0000° ; P -6.1770,Plg20.0000°,Azm115.0000° $M_0$6.39700×10^{16}
JMA Event type fe.
NEIC Event type fe. Felt [III] at Sendai and [II] at Tokyo. Felt widely in eastern Honshu. Recorded [3 JMA] in Fukushima; [2 JMA] in Ibaraki, Miyagi, Tochigi and Yamagata; [1 JMA] in Akita, Aomori, Chiba, Gumma, Iwate, Kanagawa, Nagano, Niigata, Saitama and Tokyo.
ISCJB Event type fe.

ISC	**III**	**01 14 12 53.0–1.9**	**37.14N–.05**	**141.51E–.07**	**24–12**	**3.9b**	**40**	**1-90**
NIED	III	01 14 12 00	37.20N	141.50E	47	4.0W		**¶600535490**
ISCJB	III	01 14 12 53.1–1.0	37.15N–.05	141.60E–.08	41–8	3.8b		
JMA	III	01 14 12 54.3–.10	37.16N	141.47E	47–1	4.0		
IDC	III	01 14 12 56.5–2.4	37.19N	141.59E	55–21	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ22.00000°,λ93.00000°. NP2:ϕ_s17.00000°,δ68.00000°,λ89.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.1km az=30.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=11.6km az=129.0.

ISC	**III**	**01 19 45 34.7–1.5**	**38.16N–.05**	**141.8E–.10**	**45–13**	**3.6b**	**25**	**0-58**
IDC	III	01 19 45 27.3–2.1	38.24N	142.16E	0	3.6,3.5		**¶17193094**
ISCJB	III	01 19 45 34.3–.98	38.16N–.05	141.7E–.10	55–7	3.5b,3.5		
JMA	III	01 19 45 35.3–.10	38.18N	141.69E	51–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=50.6km s-min=27.8km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.7km az=22.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**03 21 59 54.6–1.5**	**35.75N–.06**	**141.3E–.10**	**25**		**13**	**0-56**
IDC	III	03 21 59 50.1–4.0	35.83N	141.50E	0	3.5,3.4b		**¶17193209**
ISCJB	III	03 21 59 53.7–1.2	35.79N–.07	141.3E–.10	25	3.4b,3.4b		
JMA	III	03 21 59 57.4–.10	35.73N	140.97E	35–1	3.1,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=113.7km s-min=33.3km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=9.0km az=148.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**05 00 25 28.6–.10**	**38.49N**	**142.14E**	**25–3**	**1.2**		**¶602649986**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**05 00 25 57.2–.80**	**38.52N–.04**	**142.12E–.07**	**46–7**	**3.8b**	**45**	**1-89**
NIED	III	05 00 25 00	38.50N	142.10E	50	3.9W		**¶600536620**
ISCJB	III	05 00 25 55.9–.87	38.51N–.04	142.12E–.09	49–7	3.7b		
JMA	III	05 00 25 56.5–.10	38.54N	142.10E	42–1	3.8		
IDC	III	05 00 25 57.7–.85	38.45N	142.03E	52–7	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ30.00000°,λ-136.00000°. NP2:ϕ_s67.00000°,δ70.00000°,λ-67.00000°. $M_0$8.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.4km az=19.1.
JMA Event type fe.
IDC Error ellipse: s-maj=16.5km s-min=14.8km az=141.0.

ISC	**III**	**06 07 35 32.2–1.1**	**35.49N–.04**	**141.18E–.05**	**19–3**	**3.7b**	**38**	**0-93**
NIED	III	06 07 35 00	35.50N	141.20E	23	4.0W		**¶17193328**
ISCJB	III	06 07 35 31.4–.81	35.52N–.03	141.20E–.06	27–5	3.7b,3.1s		
JMA	III	06 07 35 32.3–.20	35.53N	141.17E	28–1	3.5,3.1s		
IDC	III	06 07 35 34.3–4.5	35.49N	140.99E	32–34	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ37.00000°,λ-163.00000°. NP2:ϕ_s219.00000°,δ80.00000°,λ-55.00000°. $M_0$1.06000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.7km az=2.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.0km s-min=13.7km az=86.0.

ISC	**III**	**06 20 10 57.2–.82**	**36.49N–.05**	**140.76E–.07**	**59–6**	**3.7b**	**34**	**0-83**
NIED	III	06 20 10 00	36.50N	140.60E	59	3.7W		**¶17193378**
IDC	III	06 20 10 48.8–.95	36.75N	141.21E	0	3.8,3.7		
ISCJB	III	06 20 10 55.9–.56	36.47N–.04	140.80E–.07	64–4	3.6b,3.7		
JMA	III	06 20 10 58.3–.10	36.52N	140.57E	58–1	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ42.00000°,λ21.00000°. NP2:ϕ_s36.00000°,δ76.00000°,λ130.00000°. $M_0$4.63000×10^{14}
IDC Error ellipse: s-maj=27.3km s-min=16.2km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.8km az=18.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s22.00000°,δ61.00000°,λ97.00000°. NP2:ϕ_s188.00000°,δ29.00000°,λ78.00000°. Principal axes: T Plg73.0000°,Azm308.0000°; N Plg6.0000°,Azm199.0000°; P Plg16.0000° ,Azm107.0000°

ISC	**III**	**09 02 45 19.6–.29**	**38.44N–.02**	**142.98E–.02**	**26–1**	**7.5s,6.4b**	**2864**	**1-164**
NIED	III	09 02 45 00	38.30N	143.30E	23	7.2W,6.4b		**¶16293272**
JMA	III	09 02 45 12.9–.10	38.33N	143.28E	8–2	7.3,6.4b		
ISCJB	III	09 02 45 15.0–.47	38.38N–.01	143.02E–.01	9–2	7.5s,6.3b		
BJI	III	09 02 45 14.7	38.50N	142.85E	10	7.6s,7.5		
IDC	III	09 02 45 15.2–.32	38.45N	142.96E	0	7.5,7.5s		
NEIC	III	09 02 45 18.0–.00	38.51N	142.99E	35	7.5,7.5s		
MOS	III	09 02 45 18.7–.91	38.56N	142.89E	31	7.6s,6.6b		
GCMT	III	09 02 45 20.3–.10	38.56N	142.78E	14–0	7.3W,6.6b		
NEIC	III	09 02 45 20.3–.08	38.44N	142.84E	32	7.3W,7.3s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ70.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ98.00000°. $M_0$7.97000×10^{19}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=157.6.
IDC Error ellipse: s-maj=9.3km s-min=7.2km az=101.0.
NEIC Event type se. Moment Tensor Solution. s138 Moment tensor: Scale 10^{19}Nm; M_{rr}4.67 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-4.34 $M_{r\theta}$3.23 $M_{\theta\phi}$-1.31 $M_{\phi r}$8.06 Best double couple: NP1:ϕ_s21.00000° ,δ76.00000°,λ92.00000°. NP2:ϕ_s192.00000°,δ14.00000°,λ81.00000°. Principal axes: T 9.8600,Plg59.0000°,Azm294.0000°; N 0.0300,Plg2.0000°,Azm200.0000° ; P -9.8900,Plg30.0000°,Azm109.0000° $M_0$9.90000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=103.5. Fault plane solution: P-wave C155, D60 . Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s26.00000°,δ84.00000°,λ85.00000°. NP2: ϕ_s242.00000°,δ8.00000°,λ126.00000°. Principal axes: T Plg51.0000°,Azm291.0000° ; N Plg5.0000°,Azm27.0000°; P Plg38.0000°,Azm120.0000° $M_0$1.60000×10^{20}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c385; s145,c741;Duration: 11s3 Moment tensor: Scale 10^{20}Nm; M_{rr}0.49±.00 $M_{\theta\theta}$-0.02±.00; $M_{\phi\phi}$-0.46±.00; $M_{r\theta}$0.42±.02; $M_{\theta\phi}$-0.13±.00; $M_{\phi r}$1.05±.03; Best double couple: NP1:ϕ_s21.00000° ,δ78.00000°,λ93.00000°. NP2:ϕ_s189.00000°,δ12.00000°,λ78.00000°. Principal axes: T 1.2310,Plg57.0000°,Azm294.0000°; N 0.0050,Plg2.0000°,Azm201.0000° ; P -1.2360,Plg33.0000°,Azm109.0000° $M_0$1.23400×10^{20}

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=142.0. Felt [IV] at Misawa, Sendai and Utsunomiya; [III] at Tokyo, Tsukuba, Yokohama and Yokosuka; [II] at Narita and Sagamihara. Felt throughout central and northern Honshu and southern Hokkaido. Felt [II] at Yuzhno-Kuril'sk, Kuril Islands. Recorded [5L JMA] in Miyagi, Honshu. Complex earthquake, with at least two events occurring after the first event observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$9.40000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ5.00000° ,λ90.00000°. NP2:ϕ_s20.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000° ,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm110.0000°

ISC	**III**	**09 03 05 50.8–.72**	**38.24N–.05**	**142.89E–.06**	**33–4**	**4.6b**	**92**	**1-81**
JMA	III	09 03 05 48.2–.20	38.28N	142.93E	21–3	5.0		**¶16484653**
ISCJB	III	09 03 05 48.8–1.4	38.24N–.04	142.97E–.04	33–9	4.6b		
IDC	III	09 03 05 51.2–.71	38.27N	142.84E	31–3	4.5,4.4		
NEIC	III	09 03 05 52.2–.80	38.28N	142.84E	42–6	4.6b,4.4		
MOS	III	09 03 05 52.2–2.9	38.40N	142.80E	33	4.8b,4.4		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.7km az=144.0.
IDC Error ellipse: s-maj=15.3km s-min=12.8km az=140.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.1km az=125.0.
MOS Error ellipse: s-maj=9.9km s-min=7.0km az=85.5.

ISC	**III**	**09 04 05 53.7–.54**	**38.72N–.04**	**142.95E–.04**	**29–3**	**5.1b**	**392**	**1-145**
NIED	III	09 04 05 00	38.60N	143.10E	20	5.4W		**¶17193516**
IDC	III	09 04 05 48.1–.52	38.59N	143.23E	0	4.7,4.6		
BJI	III	09 04 05 49.4	38.75N	142.85E	11	5.9b,5.8s		
JMA	III	09 04 05 50.4–.20	38.60N	143.13E	9	5.6,5.8s		
ISCJB	III	09 04 05 51.6–.93	38.74N–.03	142.84E–.03	21–6	5.8s,5.0b		
MOS	III	09 04 05 53.8–1.0	38.86N	142.91E	36	5.3b,5.0b		
NEIC	III	09 04 05 55.0–.23	38.66N	142.75E	35	5.2b,5.0b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ26.00000°,λ103.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ84.00000°. $M_0$1.51000×10^{17}
IDC Error ellipse: s-maj=13.4km s-min=11.4km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=140.7.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=109.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=143.0. Recorded [2 JMA] in Iwate and Miyagi.

ISC	**III**	**09 04 45 53.2–.43**	**38.46N–.03**	**142.82E–.04**	**30–2**	**5.5s,5.4b**	**801**	**1-155**
IDC	III	09 04 45 48.7–.37	38.43N	142.84E	0	5.1,5.1		**¶16293284**
JMA	III	09 04 45 50.5–.20	38.44N	142.94E	22–3	5.3,5.1		
ISCJB	III	09 04 45 51.6–.79	38.45N–.02	142.73E–.02	25–5	5.5s,5.3b		
BJI	III	09 04 45 52.5	38.46N	142.52E	25	6.0b,5.7s		
MOS	III	09 04 45 53.7–.82	38.72N	142.71E	33	5.6b,5.7s		
NEIC	III	09 04 45 55.2–.48	38.47N	142.70E	41–4	5.3b,5.7s		

ISC Event type fe.
IDC Error ellipse: s-maj=10.7km s-min=8.9km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=146.4.
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=139.0. Felt at Sendai. Recorded [2 JMA] in Iwate and Miyagi.

ISC	**III**	**09 16 44 12.1–2.1**	**38.44N–.04**	**142.94E–.08**	**9–12**	**3.6b**	**30**	**1-88**
NIED	III	09 16 44 00	38.60N	143.10E	17	3.9W		**¶17193567**
IDC	III	09 16 44 11.6–.98	38.41N	143.36E	0	3.8,3.7		
JMA	III	09 16 44 12.7–.10	38.56N	143.05E	9–2	4.2,3.7		
ISCJB	III	09 16 44 13.0–1.5	38.56N–.04	143.15E–.06	15–10	3.6b,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ72.00000°,λ-6.00000°. NP2:ϕ_s256.00000°,δ84.00000°,λ-162.00000°. $M_0$7.16000×10^{14}
ISCJB Event type ke.

ISC	**III**	**09 18 16 16.1–.24**	**38.28N–.02**	**142.70E–.02**	**25–1**	**5.9s,5.8b**	**2057**	**1-163**
NIED	III	09 18 16 00	38.30N	142.90E	23	6.0W,5.8b		**¶602442182**
IDC	III	09 18 16 11.8–.31	38.29N	142.73E	0	6.0,6.0s		
BJI	III	09 18 16 12.5	38.35N	142.50E	20	6.4s,6.3		
JMA	III	09 18 16 14.1–.10	38.27N	142.88E	29–2	6.4,6.3		
ISCJB	III	09 18 16 14.1–.45	38.29N–.01	142.74E–.01	22–3	6.0s,5.8b		
NEIC	III	09 18 16 15.0–.00	38.13N	142.94E	20	6.0s,5.8b		
MOS	III	09 18 16 15.3–.76	38.42N	142.82E	33	6.2s,6.0b		
GCMT	III	09 18 16 16.4–.10	38.33N	142.80E	29–0	6.1W,6.0b		
NEIC	III	09 18 16 16.4–.11	38.32N	142.43E	22	6.0W,6.0W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ19.00000°,λ89.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ90.00000°. $M_0$1.10000×10^{18}
IDC Error ellipse: s-maj=7.1km s-min=6.2km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=160.0.
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}0.66 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-0.53 $M_{r\theta}$0.52 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.04 Best double couple: NP1:ϕ_s25.00000° ,δ76.00000°,λ93.00000°. NP2:ϕ_s195.00000°,δ14.00000°,λ79.00000°. Principal axes: T 1.3600,Plg58.0000°,Azm299.0000°; N -0.0900,Plg2.0000°,Azm204.0000° ; P -1.2700,Plg30.0000°,Azm113.0000° $M_0$1.30000×10^{18}
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=101.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c271; s134,c430;Duration: 2^{s}6 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$-0.89±.01; $M_{r\theta}$0.51±.01; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$1.15±.02; Best double couple: NP1:ϕ_s22.00000° ,δ71.00000°,λ94.00000°. NP2:ϕ_s192.00000°,δ19.00000°,λ80.00000°. Principal axes: T 1.5690,Plg64.0000°,Azm298.0000°; N 0.0320,Plg3.0000°,Azm201.0000° ; P -1.6010,Plg26.0000°,Azm110.0000° $M_0$1.58500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=145.0. Felt [III] at Misawa. Also felt at Mito, Otawara, Tatebayashi, Tokyo, Yokohama and Yokosuka. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$2.80000×10^{18} Moment Tensor Solution. Best double couple: NP1: ϕ_s153.00000°,δ25.00000°,λ42.00000°. NP2:ϕ_s24.00000°,δ74.00000°,λ109.00000°. Principal axes: T 1.2500,Plg57.0000°,Azm319.0000°; N 0.0800,Plg18.0000°,Azm198.0000° ; P -1.3300,Plg26.0000°,Azm99.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s210.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s30.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm300.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm120.0000°

ISC	**III**	**09 21 00 56.0–.51**	**38.25N–.04**	**142.87E–.04**	**24–3**	**4.8b,4.7s**	**334**	**1-146**
NIED	III	09 21 00 00	38.30N	142.90E	26	4.9W,4.7s		**¶16298777**
IDC	III	09 21 00 52.7–.54	38.27N	142.86E	0	4.5,4.4		
ISCJB	III	09 21 00 54.5–.82	38.28N–.02	142.85E–.03	22–5	4.8b,4.7s		
JMA	III	09 21 00 54.6–.10	38.26N	142.91E	28–2	4.9,4.7s		
BJI	III	09 21 00 55.2	38.29N	142.53E	23	5.1b,4.8b		
MOS	III	09 21 00 57.1–1.2	38.40N	142.77E	37	5.0b,4.2s		
NEIC	III	09 21 00 59.1–.78	38.27N	142.74E	42–7	4.9b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ24.00000°,λ86.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ92.00000°. $M_0$2.56000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=11.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.4km az=138.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.3km az=111.1.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.

ISC	**III**	**09 21 22 17.8–.38**	**38.30N–.03**	**142.82E–.03**	**29–2**	**6.5s,5.9b**	**1689**	**1-161**
NIED	III	09 21 22 00	38.10N	143.20E	23	6.0W,5.9b		**¶602651127**
JMA	III	09 21 22 11.4–.10	38.13N	143.22E	18–3	6.3,5.9b		
BJI	III	09 21 22 12.7	38.30N	142.70E	10	6.5s,6.4		
IDC	III	09 21 22 13.2–.43	38.27N	142.89E	0	5.3,5.3		
ISCJB	III	09 21 22 15.0–.59	38.29N–.02	142.80E–.02	21–4	6.5s,5.8b		
NEIC	III	09 21 22 17.6–.12	38.35N	142.65E	23	5.9b,5.7		
GCMT	III	09 21 22 17.6–.20	38.29N	142.91E	22–1	6.0W,5.7		
MOS	III	09 21 22 18.6–1.0	38.57N	142.66E	33	6.0b,5.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ24.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ66.00000°,λ86.00000°. $M_0$1.05000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=1.8km az=156.3.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=150.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s220.00000°,δ5.00000° ,λ90.00000°. NP2:ϕ_s40.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000° ,Azm310.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm130.0000°
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c332; s134,c543;Duration: 2^{s}9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.70±.03 $M_{\theta\theta}$-0.02±.02; $M_{\phi\phi}$-0.68±.02; $M_{r\theta}$0.27±.04; $M_{\theta\phi}$-0.23±.01; $M_{\phi r}$0.79±.05; Best double couple: NP1:ϕ_s19.00000° ,δ70.00000°,λ91.00000°. NP2:ϕ_s195.00000°,δ20.00000°,λ87.00000°. Principal axes: T 1.0830,Plg65.0000°,Azm290.0000°; N 0.0520,Plg1.0000°,Azm198.0000° ; P -1.1350,Plg25.0000°,Azm108.0000° $M_0$1.10900×10^{18}
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=101.2.

ISC	**III**	**09 21 24 01.8–.54**	**38.24N–.03**	**142.87E–.03**	**15–2**	**6.5s,6.0b**	**663**	**1-160**
NIED	III	09 21 23 00	38.20N	143.00E	20	6.5W,6.0b		**¶16337993**
ISCJB	III	09 21 23 57.8–.85	38.21N–.02	142.93E–.02	1–5	6.5s,5.9b		
JMA	III	09 21 23 59.7–.20	38.17N	143.04E	9–3	6.8,5.9b		
IDC	III	09 21 23 59.4–.45	38.32N	142.79E	0	6.6,6.6s		
BJI	III	09 21 23 59.0	38.30N	143.05E	10	6.9b,6.9s		
NEIC	III	09 21 24 01.7–1.7	38.30N	142.81E	15–10	6.4s,6.0b		
GCMT	III	09 21 24 02.7–.10	38.27N	142.82E	23–0	6.5W,6.0b		
MOS	III	09 21 24 03.3–1.2	38.38N	142.88E	33	6.1b,6.0b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ85.00000°. $M_0$5.51000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=136.0. Felt [III] at Tokyo and [II] at Misawa. Felt widely in eastern Honshu. Recorded [4 JMA] in Miyagi. Moment Tensor Solution. $M_0$6.30000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c305; s144,c551;Duration: 4^{s}1 Moment tensor: Scale 10^{18} Nm; M_{rr}3.79±.03 $M_{\theta\theta}$-0.28±.02; $M_{\phi\phi}$-3.51±.03; $M_{r\theta}$1.90±.05; $M_{\theta\phi}$-1.04±.02; $M_{\phi r}$4.42±.06; Best double couple: NP1:ϕ_s22.00000°,δ71.00000°,λ94.00000°. NP2:ϕ_s191.00000° ,δ19.00000°,λ80.00000°. Principal axes: T 6.1370,Plg64.0000°,Azm298.0000° ; N -0.0060,Plg3.0000°,Azm201.0000°; P -6.1280,Plg26.0000°,Azm109.0000° $M_0$6.13300×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=4.9km az=98.8.

ISC	**III**	**09 22 42 48.0–.84**	**38.13N–.05**	**142.87E–.05**	**28–5**	**4.2b**	**88**	**1-89**
JMA	III	09 22 42 45.3–.10	38.17N	142.96E	21–2	4.2		**¶16449425**
MOS	III	09 22 42 46.5–1.2	38.06N	142.97E	33	4.3b		
IDC	III	09 22 42 48.0–.88	38.05N	142.88E	30–5	4.6,4.6s		
ISCJB	III	09 22 42 47.2–.84	38.14N–.04	142.95E–.06	35–6	4.6s,4.0b		
NEIC	III	09 22 42 49.7–.83	38.08N	142.95E	45–7	4.2b,4.0b		

ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=11.1km s-min=8.4km az=96.3.
IDC Error ellipse: s-maj=16.5km s-min=15.6km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.2km az=29.7.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=123.0.

ISC	**III**	**10 07 33 02.8–.46**	**38.87N–.04**	**142.72E–.05**	**22–2**	**4.7b,4.2s**	**262**	**1-145**
NIED	III	10 07 32 00	38.50N	143.70E	8	4.6W,4.2s		**¶16298688**
IDC	III	10 07 32 53.4–.62	38.44N	143.55E	0	4.3,4.2		
JMA	III	10 07 32 54.8–.10	38.47N	143.65E	35	4.6,4.2		
MOS	III	10 07 32 59.2–1.1	38.75N	143.23E	33	4.8b,4.2		
BJI	III	10 07 33 01.1	38.70N	142.62E	19	5.0b,4.7b		
ISCJB	III	10 07 33 02.7–1.1	38.97N–.03	142.48E–.04	22–7	4.5b,4.1s		
NEIC	III	10 07 33 04.8–2.1	38.91N	142.45E	27–15	4.8b,4.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ33.00000°,λ54.00000°. NP2:ϕ_s39.00000°,δ64.00000°,λ110.00000°. $M_0$7.91000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.0km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=5.1km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=135.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.6km az=151.0.

JMA	**III**	**10 09 02 19.1–.20**	**38.34N**	**142.52E**	**25–3**			**¶16298803**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**11 05 46 23.2–.31**	**38.30N–.02**	**142.50E–.03**	**20–1**	**8.4s,7.1b**	**2497**	**1-163**
NIED	III	11 05 46 00	38.10N	142.90E	20	8.7W,7.1b		**¶16461282**
JMA	III	11 05 46 18.1–.20	38.10N	142.86E	24–3	9.0,7.1b		
IDC	III	11 05 46 19.8–.24	38.44N	142.52E	0	8.2,8.2s		
BJI	III	11 05 46 19.0	38.10N	142.50E	20	8.7s,8.6		
ISCJB	III	11 05 46 21.8–.06	38.29N–.01	142.71E–.01	20	8.4s,6.9b		
MOS	III	11 05 46 22.4–1.2	38.33N	142.51E	27	8.4s,7.3b		
GCMT	III	11 05 46 23.0–.20	37.52N	143.05E	20	9.1W,7.3b		
NEIC	III	11 05 46 23.0–.00	38.32N	142.97E	24	9.1W,7.3b		
NEIC	III	11 05 46 24.1–.10	38.30N	142.37E	29	9.0W,9.0W		
NEIC	III	11 05 47 47.2–.00	38.49N	142.60E	10	9.0W,9.0W		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ27.00000°,λ88.00000°. NP2:ϕ_s22.00000°,δ63.00000°,λ91.00000°. $M_0$1.07000×10^{22}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=8.0km s-min=6.9km az=100.0.
ISCJB Event type de. Error ellipse: s-maj=2.1km s-min=1.5km az=158.7.
MOS Event type fe. Error ellipse: s-maj=5.3km s-min=3.2km az=104.0. Mo 4.8E21 n.m, Mw 8.4(ARU) Mo 3.9E21 n.m, Mw 8.4(OBN) Mo 3.9E21 n.m, Mw 8.4(KIV) Mo 1.5E21 n.m, Mw 8.1(TLY) Fault plane solution: -wave C117, D42 . Felt (IV) at Yuzhno-Kuril'sk, Kuril'sk; (III) at Malokuril'skoye. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ71.00000°,λ105.00000°. NP2:ϕ_s154.00000°,δ24.00000°,λ53.00000°. Principal axes: T Plg61.0000°,Azm306.0000°; N Plg14.0000°,Azm189.0000°; P Plg25.0000° ,Azm93.0000°
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves. nsta2 refers to mantle waves, cutoff=300s. Moment Tensor Solution. s100,c271;Duration: 70^{s}0 Moment tensor: Scale 10^{22}Nm; M_{rr}1.73±.01 $M_{\theta\theta}$-0.28±.01; $M_{\phi\phi}$-1.45±.01; $M_{r\theta}$2.12±.07; $M_{\theta\phi}$-0.66±.00; $M_{\phi r}$4.55±.07; Best double couple: NP1:ϕ_s25.00000°,δ80.00000°,λ90.00000°. NP2:ϕ_s203.00000°,δ10.00000°,λ88.00000°. Principal axes: T 5.3050,Plg55.0000° ,Azm295.0000°; N 0.0140,Plg0.0000°,Azm205.0000°; P -5.3190,Plg35.0000°,Azm115.0000° $M_0$5.31200×10^{22}
NEIC Event type se. Moment Tensor Solution. s256 Moment tensor: Scale 10^{22}Nm; M_{rr}1.82 $M_{\theta\theta}$-0.13 $M_{\phi\phi}$-1.69 $M_{r\theta}$1.34 $M_{\theta\phi}$-0.56 $M_{\phi r}$3.17 Best double couple: NP1:ϕ_s22.00000° ,δ76.00000°,λ92.00000°. NP2:ϕ_s193.00000°,δ14.00000°,λ81.00000°. Principal axes: T 3.8800,Plg59.0000°,Azm295.0000°; N 0.0300,Plg2.0000°,Azm201.0000° ; P -3.9200,Plg30.0000°,Azm110.0000° $M_0$3.90000×10^{22}

NEIC Event type de. Error ellipse: s-maj=3.3km s-min=2.5km az=142.0. slightly in the Galapagos Islands, Ecuador by a tsunami with a recorded wave height of 208 cm at Santa Cruz. Several houses destroyed at Pisco, Peru. Several buildings destroyed at Dichato and several boats damaged at Puerto Viejo and on Isla Chiloe, Chile. Felt [VIII] at Fukushima, [VII] at Agui, Hiratsuka, Kiryu, Komae, Oyama, Sendai and Tsukuba and [VI] in much of eastern Honshu, including the Tokyo-Yokohama area, Japan. Felt from Hokkaido to Kyushu. Recorded [7 JMA] in Miyagi. Felt in Northern Mariana Islands, North Korea, South Korea, Taiwan, northeastern China and southeastern Russia as far as Kaohsiung, Beijing and Petropavlovsk-Kamchatskiy. Seiches observed at Leikanger, Norway. Water fluctuations observed in a well in Newfoundland, Canada. The tsunami had maximum runup heights of 29.6 m at Ofunato, 18.4 m at Onagawa and 9.4 m at Iwaki. Wave heights in centimeters [above sea level] were recorded at the following selected tide gauges: 250 at Arica, Chile; 282 at Hanasaki and 157 at Omaezaki, Japan; 163 at Manzanillo, Mexico; 156 on Midway Island; 97 on Chatham Island, New Zealand; 109 at Manus, Papua New Guinea; 173 at Callao, Peru; 250 at Kahului, Hawaii, USA; 202 at Port Orford, Oregon; 157 at Shemya, Alaska. The tsunami also caused some massive slabs of ice to calve from the Sulzberger Ice Shelf, Antarctica. At least 15,703 people killed, 4,647 missing, 5,314 injured, 130,927 displaced and at least 332,395 buildings, 2,126 roads, 56 bridges and 26 railways destroyed or damaged by the earthquake and tsunami along the entire east coast of Honshu from Chiba to Aomori. The majority of casualties and damage occurred in Iwate, Miyagi and Fukushima from a Pacific-wide tsunami with a maximum runup height of 37.88 m at Miyako. The total economic loss in Japan was estimated at 309 billion US dollars. Electricity, gas and water supplies, telecommunications and railway service disrupted and several reactors severely damaged at a nuclear power plant near Okuma. Several fires occurred in Chiba and Miyagi. At least 1,800 houses destroyed when a dam failed in Fukushima. Maximum acceleration of 2.93 g recorded at Tsukidate. Horizontal displacement and subsidence observed. Landslides occurred in Miyagi. Liquefaction observed at Chiba, Odaiba, Tokyo and Urayasu. The tsunami destroyed or severely damaged many coastal towns in the Kuji-Minamisanriku-Nami area. One person killed and several houses destroyed at Jayapura, Indonesia by a tsunami with a wave height of 2 m. One person killed south of Crescent City, California and several boats and docks destroyed or damaged at Crescent City by a tsunami with a recorded wave height of 247 cm. Several houses, boats and docks destroyed or damaged at Santa Cruz, California; Brookings, Oregon; Hale'iwa, Kailua Kona and Kealakekua, Hawaii. Some buildings damaged. Complex earthquake observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.00000×10^{22}

NEIC Event type se. Moment Tensor Solution. s151 Moment tensor: Scale 10^{22}Nm; M_{rr}2.03 $M_{\theta\theta}$-0.16 $M_{\phi\phi}$-1.87 $M_{r\theta}$2.06 $M_{\theta\phi}$-0.60 $M_{\phi r}$3.49 Best double couple: NP1:ϕ_s187.00000° ,δ14.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ95.00000°. Principal axes: T 4.5700,Plg58.0000°,Azm306.0000°; N -0.0500,Plg5.0000°,Azm208.0000° ; P -4.5200,Plg32.0000°,Azm115.0000° $M_0$4.50000×10^{22}

ISC	**III**	**11 05 54 31.5–.45**	**37.51N–.05**	**141.36E–.07**	**35**	**6.2b**	**171**	**0-152**
IDC	III	11 05 54 26.6–.73	37.67N	141.29E	0	6.0,5.9		¶602653817
MOS	III	11 05 54 30.5–.88	37.69N	141.21E	35	6.5b,5.9		
ISCJB	III	11 05 54 30.6–.21	37.53N–.03	141.36E–.04	35	6.1b,5.9		
JMA	III	11 05 54 31.3–.10	37.51N	141.35E	34–2	6.1,5.9		
NEIC	III	11 05 54 31.9–1.9	37.71N	141.18E	32–13	6.3b,5.9		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=22.4km s-min=17.4km az=160.0.						
MOS		Error ellipse: s-maj=16.5km s-min=8.0km az=71.7.						
ISCJB		Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=159.5.						
NEIC		Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=135.0.						
JMA	**III**	**11 05 54 42.1**	**36.71N**	**140.58E**	**10–1**	**5.7**		
								¶16404891
JMA	**III**	**11 05 57 01.1–.10**	**37.40N**	**141.12E**	**22–1**	**5.2**		
								¶602653809
JMA		Event type fe.						
JMA	**III**	**11 05 57 25.9–.10**	**39.21N**	**142.35E**	**32–1**	**5.7**		
								¶602653803
ISC	**III**	**11 05 59 35.3–.58**	**37.0N–.10**	**141.7E–.20**	**33**	**5.9b**	**89**	**4-151**
IDC	III	11 05 59 29.8–.81	37.11N	141.65E	0	5.9,5.6		¶16403886
NEIC	III	11 05 59 31.6–3.7	37.05N	141.76E	8–23	5.9b,5.6		
ISCJB	III	11 05 59 33.1–.51	37.10N–.09	141.5E–.20	33	5.8b,5.6		
ISC		Event type se.						
NEIC		Event type se.						
ISCJB		Event type se.						
ISC	**III**	**11 06 00 35.6–.57**	**38.13N–.10**	**142.5E–.10**	**14**	**5.9b**	**45**	**5-150**
IDC	III	11 06 00 32.5–.96	38.01N	142.56E	0	5.7,5.6		¶602653784
ISCJB	III	11 06 00 34.9–.45	38.26N–.08	142.42E–.10	14	5.8b,5.6		
NEIC	III	11 06 00 39.3–1.9	38.10N	142.49E	41–18	6.2b,5.6		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=27.6km s-min=24.9km az=72.0.						
ISCJB		Event type ke. Error ellipse: s-maj=12.6km s-min=9.8km az=141.0.						
NEIC		Event type se. Error ellipse: s-maj=12.3km s-min=9.4km az=141.0.						
JMA	**III**	**11 06 01 16.0**	**36.76N**	**140.63E**	**6**	**4.5**		
								¶603049298
JMA		Event type fe.						
JMA	**III**	**11 06 03 43.3**	**39.19N**	**142.33E**	**32–1**	**5.2**		
								¶602653780
ISC	**III**	**11 06 04 00.1–1.1**	**36.33N–.04**	**141.85E–.07**	**67–9**	**5.7b**	**236**	**1-152**
IDC	III	11 06 03 51.2–.40	36.47N	141.90E	0	5.4,5.3		¶602653769
MOS	III	11 06 03 53.8–1.0	36.38N	141.84E	27	6.0b,5.3		
NEIC	III	11 06 03 55.3–2.0	36.47N	141.84E	23–14	5.9b,5.3		
JMA	III	11 06 03 58.8–.20	36.33N	141.96E	17–5	6.0,5.3		
ISCJB	III	11 06 04 00.5–.51	36.36N–.04	141.75E–.04	82–4	5.7b,5.3		
ISC		Event type ke.						
NEIC		Event type se.						
JMA		Event type fe.						
ISCJB		Event type fe.						
ISC	**III**	**11 06 05 01.2–.31**	**36.41N–.05**	**141.69E–.06**	**26**	**5.7b**	**121**	**1-152**
IDC	III	11 06 04 56.7–.58	36.38N	141.86E	0	5.6,5.5		¶602653767
ISCJB	III	11 06 04 59.2–.22	36.39N–.04	141.73E–.04	26	5.6b,5.5		
MOS	III	11 06 05 00.3–.98	36.35N	141.80E	33	5.9b,5.5		
NEIC	III	11 06 05 02.2–2.1	36.38N	141.78E	34–14	5.8b,5.5		
JMA	III	11 06 05 06.3–.10	37.52N	141.62E	22–2	5.9,5.5		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=19.8km s-min=15.0km az=103.0.						
ISCJB		Event type fe. Error ellipse: s-maj=5.2km s-min=5.0km az=147.7.						
MOS		Error ellipse: s-maj=15.6km s-min=9.3km az=85.5.						
NEIC		Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=111.0.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
ISC	**III**	**11 06 06 10.0–.54**	**39.01N–.03**	**142.43E–.03**	**19–2**	**6.3b**	**1083**	**1-159**
IDC	III	11 06 06 06.7–.35	39.01N	142.37E	0	5.9,5.9		¶602653765
BJI	III	11 06 06 09.2	39.00N	142.30E	22	6.5s,6.4b		
ISCJB	III	11 06 06 09.9–.57	39.00N–.02	142.38E–.02	30–3	7.5s,6.2b		
JMA	III	11 06 06 10.7–.10	39.04N	142.40E	29–2	6.5,6.2b		
MOS	III	11 06 06 11.2–.90	39.02N	142.30E	40	6.5b,6.2b		
NEIC	III	11 06 06 13.2–.37	39.00N	142.29E	43–3	6.3b,6.2b		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=11.2km s-min=9.3km az=147.0.						
ISCJB		Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=157.5.						
JMA		Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
MOS		Error ellipse: s-maj=6.1km s-min=4.2km az=95.6.						
NEIC		Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0. Recorded [5L JMA] in Aomori and Iwate.						
ISC	**III**	**11 06 07 20.1–.61**	**36.39N–.04**	**141.97E–.04**	**29–4**	**6.3b**	**1132**	**1-165**
IDC	III	11 06 07 15.6–.30	36.46N	142.01E	0	6.0,5.9		¶16304069
JMA	III	11 06 07 16.1–.20	36.30N	142.23E	20–5	6.5,5.9		
BJI	III	11 06 07 18.6	36.30N	141.80E	30	6.5b,6.5s		
ISCJB	III	11 06 07 18.3–.95	36.40N–.02	141.97E–.02	28–6	7.1s,6.2b		
MOS	III	11 06 07 18.8–1.0	36.44N	141.92E	29	6.5b,6.2b		
NEIC	III	11 06 07 20.9–1.3	36.42N	141.88E	32–9	6.4b,6.2b		
ISC		Event type se.						
IDC		Error ellipse: s-maj=9.9km s-min=8.7km az=109.0.						
JMA		Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=162.9.						
MOS		Error ellipse: s-maj=6.6km s-min=4.6km az=103.8.						
NEIC		Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=131.0.						
JMA	**III**	**11 06 08 53.9–.20**	**36.08N**	**141.83E**	**26**	**6.2**		
								¶602707109
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						

ISC	**III**	**11 06 11 15.5–.40**	**36.15N–.08**	**141.74E–.07**	**26**	**5.9b**	**148**	**1-152**
IDC	III	11 06 11 10.9–.73	36.08N	141.83E	0	7.0s,7.0		¶16404863
ISCJB	III	11 06 11 13.9–.24	36.13N–.05	141.64E–.04	26	5.8b,7.0		
MOS	III	11 06 11 13.9–1.1	36.08N	141.70E	29	6.2b,7.0		
NEIC	III	11 06 11 15.6–2.0	36.11N	141.70E	27–14	5.9b,7.0		
JMA	III	11 06 11 19.0	36.86N	140.62E	6–1	5.5,7.0		
ISC		Event type se.						
IDC		Error ellipse: s-maj=23.0km s-min=15.9km az=168.0.						
ISCJB		Event type fe. Error ellipse: s-maj=8.3km s-min=4.6km az=158.6.						
MOS		Error ellipse: s-maj=12.3km s-min=9.6km az=54.0.						
NEIC		Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=145.0.						
JMA		Event type fe.						
JMA	**III**	**11 06 12 54.6–.10**	**39.45N**	**142.07E**	**34–1**	**4.9**		
								¶603049300
ISC	**III**	**11 06 12 59.3–1.3**	**37.22N–.03**	**141.68E–.04**	**28–8**	**6.2b**	**966**	**1-152**
IDC	III	11 06 12 54.4–.37	37.18N	141.65E	0	6.1,6.1b		¶16404864
MOS	III	11 06 12 56.9–.90	37.20N	141.62E	23	6.4b,6.1b		
ISCJB	III	11 06 12 57.6–.62	37.18N–.02	141.65E–.02	26–4	6.1b,6.1b		
JMA	III	11 06 12 58.6–.10	37.23N	141.65E	39–2	6.7,6.1b		
NEIC	III	11 06 13 01.0–.57	37.21N	141.60E	40–5	6.2b,6.1b		
ISC		Event type se.						
IDC		Error ellipse: s-maj=10.9km s-min=9.8km az=145.0.						
MOS		Error ellipse: s-maj=6.3km s-min=4.4km az=94.4.						
ISCJB		Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=153.4.						
JMA		Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=3.2km s-min=2.4km az=142.0.						
ISC	**III**	**11 06 15 37.6–.58**	**36.23N–.03**	**141.09E–.03**	**25–3**	**7.6s,6.7b**	**950**	**1-152**
NIED	III	11 06 15 00	36.10N	141.30E	35	7.8W,6.7b		¶602707261
BJI	III	11 06 15 32.7	36.20N	141.20E	20	7.7,7.7s		
IDC	III	11 06 15 32.3–.36	36.21N	141.17E	0	7.6,7.6s		
JMA	III	11 06 15 34.2–.10	36.12N	141.25E	43–2	7.6,7.6s		
ISCJB	III	11 06 15 37.0–.47	36.22N–.02	141.10E–.02	34–4	7.6s,6.6b		
MOS	III	11 06 15 38.8–1.7	36.27N	141.01E	47	7.0b,6.6b		
NEIC	III	11 06 15 40.3–1.1	36.28N	141.11E	43–9	7.9W,6.8b		
GCMT	III	11 06 15 45.0–.40	35.92N	141.38E	29–2	7.9W,6.8b		
NEIC	III	11 06 15 55.2–.00	35.94N	141.67E	30	7.9W,6.8b		
ISC		Event type ke.						
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ31.00000°,λ92.00000°. NP2:ϕ_s26.00000°,δ59.00000°,λ89.00000°. $M_0$5.66000×10^{20}						
IDC		Error ellipse: s-maj=11.5km s-min=9.6km az=91.0.						
ISCJB		Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=155.1.						
MOS		Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=115.4. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.						
NEIC		Event type fe. Error ellipse: s-maj=7.3km s-min=5.4km az=124.0. Felt [V] at Tokyo and [IV] at Misawa and Yokosuka. Also felt at Ayase, Fussa, Hamamatsu, Hamura, Nagoya-shi, Nisshin, Oizumi, Osaka, Sodegaura, Tachikawa, Tokorozawa and Yokohama. Recorded [6L JMA] in Ibaraki.						
GCMT		Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=75s. Moment Tensor Solution. s79,c216;Duration: 21s2 Moment tensor: Scale 10^{20}Nm; M_{rr}4.39±.31 $M_{\theta\theta}$-0.31±.15; $M_{\phi\phi}$-4.07±.20; $M_{r\theta}$3.17±.47; $M_{\theta\phi}$-1.97±.09; $M_{\phi r}$6.34±.68; Best double couple: NP1:ϕ_s26.00000°,δ73.00000°,λ92.00000°. NP2:ϕ_s199.00000°,δ17.00000°,λ84.00000°. Principal axes: T 8.2240,Plg62.0000° ,Azm299.0000°; N 0.5160,Plg2.0000°,Azm206.0000°; P -8.7340,Plg28.0000°,Azm115.0000° $M_0$8.47900×10^{20}						
NEIC		Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{20}Nm; M_{rr}4.67 $M_{\theta\theta}$-1.09 $M_{\phi\phi}$-3.57 $M_{r\theta}$0.94 $M_{\theta\phi}$-1.11 $M_{\phi r}$6.44 Best double couple: NP1:ϕ_s207.00000° ,δ17.00000°,λ105.00000°. NP2:ϕ_s11.00000°,δ73.00000°,λ85.00000°. Principal axes: T 8.2000,Plg61.0000°,Azm274.0000°; N -0.7800,Plg4.0000°,Azm12.0000° ; P -7.4200,Plg28.0000°,Azm104.0000° $M_0$7.80000×10^{20}						
JMA	**III**	**11 06 16 41.6–.10**	**36.08N**	**141.10E**	**39–3**	**5.7**		
								¶602653743
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
JMA	**III**	**11 06 17 16.6–.10**	**35.96N**	**141.08E**	**34–2**	**5.9**		
								¶16304071
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
JMA	**III**	**11 06 18 12.0–.10**	**36.02N**	**141.03E**	**41–1**	**4.7**		
								¶602653739
JMA		Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
JMA	**III**	**11 06 18 33.7–.10**	**36.01N**	**140.92E**	**64–2**	**4.5**		
								¶602653736
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
ISC	**III**	**11 06 20 02.4–.68**	**36.07N–.06**	**141.73E–.08**	**23**	**6.3b**	**62**	**1-88**
IDC	III	11 06 19 56.7–1.2	36.07N	142.24E	0	5.9,5.8		¶602653729
ISCJB	III	11 06 19 59.6–.41	36.03N–.04	141.90E–.05	23	6.2b,5.8		
JMA	III	11 06 20 01.9–.30	36.09N	141.77E	34	5.8,5.8		
NEIC	III	11 06 20 04.1–1.2	36.00N	142.07E	49–9	6.5b,5.8		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=34.1km s-min=16.1km az=79.0.						
ISCJB		Event type fe. Error ellipse: s-maj=7.1km s-min=5.4km az=135.3.						
JMA		Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.						
NEIC		Event type se. Error ellipse: s-maj=12.9km s-min=5.8km az=79.0.						
JMA	**III**	**11 06 20 39.3–.10**	**38.38N**	**141.85E**	**39–2**	**4.6**		
								¶602653728
JMA		Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.						
JMA	**III**	**11 06 20 44.1–.20**	**36.59N**	**141.72E**	**62**	**5.7**		
								¶600538947
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
ISC	**III**	**11 06 21 29.3–.40**	**38.36N–.05**	**142.88E–.05**	**23**	**6.2b**	**146**	**1-148**
IDC	III	11 06 21 25.0–.66	38.26N	142.97E	0	6.0,5.9		¶16404868
JMA	III	11 06 21 27.9–.40	38.28N	142.84E	6	6.2,5.9		
ISCJB	III	11 06 21 27.4–.22	38.20N–.04	142.90E–.03	23	6.1b,5.9		
NEIC	III	11 06 21 32.7–.83	38.29N	142.81E	52–8	6.2b,5.9		
MOS	III	11 06 21 32.0–.93	38.31N	142.83E	61	6.4b,5.9		
ISC		Event type se.						
IDC		Error ellipse: s-maj=18.2km s-min=15.3km az=142.0.						
JMA		Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=0.9.						
NEIC		Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=138.0.						
MOS		Error ellipse: s-maj=11.7km s-min=8.5km az=81.0.						
JMA	**III**	**11 06 21 52.7–.10**	**35.93N**	**141.28E**	**22–4**	**4.7**		
								¶602653724
JMA		Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.						
JMA	**III**	**11 06 22 45.5–.10**	**38.38N**	**141.81E**	**42–1**	**4.6**		
								¶602653722
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
ISC	**III**	**11 06 23 05.3–1.5**	**39.02N–.04**	**142.46E–.05**	**23–10**	**6.2b**	**399**	**1-155**
BJI	III	11 06 23 02.7	38.69N	142.36E	18	6.3b		¶16337997
JMA	III	11 06 23 05.8–.10	39.02N	142.41E	31–2	6.1		
ISCJB	III	11 06 23 06.7–.43	39.02N–.02	142.37E–.03	43–3	7.7s,6.1b		
MOS	III	11 06 23 08.0–.88	39.06N	142.41E	55	6.4b,6.1b		
NEIC	III	11 06 23 09.5–.50	39.03N	142.28E	56–4	6.2b,6.1b		
IDC	III	11 06 23 11.2–2.2	39.01N	142.37E	74–19	7.7s,7.7		
ISC		Event type se.						
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
ISCJB		Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=137.9.						
MOS		Error ellipse: s-maj=7.7km s-min=5.5km az=77.9.						
NEIC		Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=140.0.						
IDC		Error ellipse: s-maj=13.7km s-min=10.6km az=130.0.						
JMA	**III**	**11 06 25 47.0–.40**	**36.64N**	**141.08E**	**40–5**	**4.6**		
								¶602653720
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.						
JMA	**III**	**11 06 28 47.9–.10**	**35.91N**	**141.31E**	**25–2**	**5.2**		
								¶602653719
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
JMA	**III**	**11 06 30 12.5–.10**	**36.07N**	**141.07E**	**35–2**	**4.5**		
								¶602653714
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.						
JMA	**III**	**11 06 31 32.4–.30**	**37.38N**	**141.90E**	**16**	**5.7**		
								¶602653713
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.						
ISC	**III**	**11 06 33 00.4–1.8**	**36.62N–.04**	**141.99E–.04**	**3–10**	**6.0b**	**347**	**1-152**

IDC III 11 06 32 59.9–.51 36.65N 141.94E 0 5.7,5.6 ¶602653706
ISCJB III 11 06 33 00.5–.14 36.59N–.02 142.00E–.02 10 5.8b,5.6
JMA III 11 06 33 01.5–.20 36.61N 142.11E 43 6.1,5.6
MOS III 11 06 33 03.8–.90 36.82N 141.89E 28 6.3b,5.6
NEIC III 11 06 33 06.1–.60 36.63N 141.87E 39–5 5.9b,5.6
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=1.9km az=174.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=7.2km az=84.4.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=141.0.
ISC III 11 06 35 24.4–.39 35.97N–.05 141.07E–.06 31 5.7b 134 0-152
IDC III 11 06 35 18.9–.67 35.81N 141.17E 0 5.5,5.3 ¶602653697
NEIC III 11 06 35 20.9–2.3 35.81N 141.10E 10–14 5.8b,5.3
ISCJB III 11 06 35 22.5–.26 35.85N–.05 141.03E–.04 31 5.7b,5.3
MOS III 11 06 35 22.2–.99 35.79N 141.14E 33 6.1b,5.3
JMA III 11 06 35 24.5–.10 36.04N 141.04E 38–2 5.1,5.3
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=17.5km az=150.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=178.5.
MOS Error ellipse: s-maj=13.6km s-min=10.3km az=94.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 06 36 34.2–.10 38.43N 142.24E 16–2 5.1
¶603229649
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 06 37 36.4–.30 36.74N 141.08E 33–3 4.8
¶602653693
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 06 38 04.4–.10 38.36N 141.67E 48–1 4.2
¶17193682
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 06 38 08.8–.39 36.09N–.04 141.75E–.05 26 5.7b 127 1-152
IDC III 11 06 38 04.7–.58 36.13N 141.77E 0 5.4,5.3 ¶600538982
ISCJB III 11 06 38 06.8–.24 36.06N–.03 141.79E–.03 26 5.5b,5.3
JMA III 11 06 38 07.1–.20 36.18N 141.85E 24 5.6,5.3
MOS III 11 06 38 09.6–.86 36.12N 141.69E 48 6.0b,5.3
NEIC III 11 06 38 11.3–.79 36.09N 141.67E 47–7 5.8b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.8km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=11.4km s-min=8.1km az=107.1.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.9km az=129.0.
ISC III 11 06 40 49.5–.52 39.34N–.05 142.17E–.05 50–4 5.6b 153 1-151
IDC III 11 06 40 42.3–.81 39.29N 142.11E 0 5.5,5.4 ¶602653685
JMA III 11 06 40 49.7–.10 39.33N 142.07E 48–1 5.9,5.4
MOS III 11 06 40 53.8–1.1 40.52N 141.37E 33 5.8b,5.4
BJI III 11 06 40 59.0 39.90N 139.80E 34 5.7b,5.4
NEIC III 11 06 41 01.4–.29 39.60N 141.58E 35 5.8b,5.4
ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=15.7km az=160.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=13.1km s-min=7.9km az=106.5.
NEIC Event type fe. Error ellipse: s-maj=17.8km s-min=6.5km az=127.0. Recorded [4 JMA] in Iwate.
JMA III 11 06 41 17.3–.30 37.72N 141.75E 15–4 5.3
¶602653683
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 06 44 08.1–.10 38.75N 142.22E 40–1 5.4
¶16404874
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 06 44 57.0–.59 36.60N–.05 141.02E–.07 38–2 5.1b 47 0-152
IDC III 11 06 44 51.3–.59 36.59N 141.12E 0 5.3,5.1 ¶16404875
NEIC III 11 06 44 55.0–3.1 36.59N 141.10E 23–22 5.3b,5.1
ISCJB III 11 06 44 56.3–.64 36.60N–.04 141.00E–.07 49–5 5.2b,5.1
JMA III 11 06 44 57.6 36.64N 140.92E 50–1 5.3,5.1
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=15.5km az=117.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.1km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=5.4km az=29.5.
JMA III 11 06 48 11.3–.10 36.64N 141.00E 42–1 4.5
¶602653672
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 06 48 18.5–1.3 38.83N–.04 142.04E–.08 46–11 5.2b 136 1-150
IDC III 11 06 48 12.2–.83 38.82N 142.01E 0 5.1,5.0 ¶602707263
MOS III 11 06 48 14.0–.77 38.78N 141.94E 24 5.4b,5.0
ISCJB III 11 06 48 18.0–.56 38.79N–.03 142.00E–.05 57–4 5.2b,5.0
JMA III 11 06 48 18.5–.10 38.89N 142.10E 43–1 5.2,5.0
NEIC III 11 06 48 18.8–.62 38.81N 141.95E 47–6 5.3b,5.0
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=19.8km az=96.0.
MOS Error ellipse: s-maj=13.4km s-min=7.9km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.3km az=127.0.
ISC III 11 06 49 50.6–1.4 40.17N–.04 142.57E–.04 18–8 5.8b 87 1-144
JMA III 11 06 49 50.2–.30 40.11N 142.62E 7–4 5.9 ¶16404877
IDC III 11 06 49 52.1–.72 40.83N 141.43E 0 6.4L,5.7
NEIC III 11 06 49 57.5–1.2 40.67N 141.61E 45–11 5.8b,5.7
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=15.5km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=14.4km s-min=9.2km az=130.0. Recorded [3 JMA] in Akita, Aomori, Fukushima, Iwate and Miyagi.
ISC III 11 06 54 11.6–.38 37.04N–.05 141.49E–.05 33 5.4b 141 1-152
NEIC III 11 06 54 08.5–2.8 36.97N 141.49E 10–17 5.4b ¶602654502
ISCJB III 11 06 54 10.4–.26 36.95N–.04 141.51E–.04 33 5.3b
MOS III 11 06 54 11.4–.77 37.18N 141.47E 35 5.5b
JMA III 11 06 54 13.4–.10 37.18N 141.44E 48–2 5.2
IDC III 11 06 54 16.0–3.1 36.97N 141.40E 72–29 5.1,5.0
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=2.5.
MOS Error ellipse: s-maj=17.2km s-min=9.8km az=73.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=18.7km az=115.0.
JMA III 11 06 54 38.2 36.62N 140.88E 49–1 4.9
¶602654499
JMA III 11 06 55 04.1–.10 38.83N 142.03E 42–2 4.7
¶16404879
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 06 55 56.4–.20 39.12N 142.37E 32–2 5.0
¶600539009
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 06 57 14.9–.52 35.80N–.03 140.97E–.03 33–1 6.0b 825 0-162
BJI III 11 06 57 13.0 35.61N 140.89E 39 6.2b,5.8b ¶602654495
JMA III 11 06 57 13.2–.10 35.82N 141.18E 28–1 6.2,5.8b
ISCJB III 11 06 57 14.2–.34 35.75N–.02 140.88E–.02 39–2 7.1s,6.0b
MOS III 11 06 57 15.1–1.0 35.80N 140.90E 48 6.2b,6.0b
IDC III 11 06 57 16.4–1.5 35.74N 141.08E 52–13 5.6,5.4
NEIC III 11 06 57 16.5–.52 35.71N 140.88E 48–4 6.0b,5.4
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=38.8.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=109.3.
IDC Error ellipse: s-maj=10.6km s-min=7.2km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=127.0. Recorded [4 JMA] in Chiba.
JMA III 11 07 00 33.0–.10 36.63N 140.90E 46–1 4.0
¶602654491
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 01 24.3–.10 38.55N 142.05E 38–1 5.0
¶602654488
JMA Event type fe.
JMA III 11 07 01 28.3–.10 36.20N 141.04E 44–2 3.8
¶602654485
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 02 06.8–.10 36.83N 141.06E 50–2 3.8
¶602654482
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 03 00.1–.33 38.00N–.05 142.82E–.05 18 5.5b 196 1-164
ISCJB III 11 07 02 59.2–.21 38.11N–.04 142.82E–.03 18 5.5b ¶602654475
NEIC III 11 07 03 00.0–2.4 37.92N 142.80E 19–14 5.6b
JMA III 11 07 03 01.4–.20 38.15N 142.79E 23 5.8
IDC III 11 07 03 01.3–.50 37.86N 142.87E 32–3 5.4,5.3
MOS III 11 07 03 01.6–.76 38.17N 142.77E 34 5.8b,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.3km az=168.4.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.7km s-min=10.3km az=131.0.
MOS Error ellipse: s-maj=10.2km s-min=6.9km az=79.9.
JMA III 11 07 03 00.0–.10 35.85N 141.10E 33–1 4.9
¶602654479
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 03 29.5–.10 36.72N 140.96E 49–2 4.5
¶602442242
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 04 15.0–.58 38.97N–.03 142.49E–.04 17–3 5.7b 721 1-155
IDC III 11 07 04 11.8–.47 38.92N 142.48E 0 5.4,5.3 ¶16401042
MOS III 11 07 04 13.6–1.0 38.97N 142.44E 19 6.0b,5.3
ISCJB III 11 07 04 14.4–.68 38.93N–.02 142.48E–.02 22–4 5.6b,5.3
JMA III 11 07 04 15.7–.10 38.98N 142.43E 24–1 5.7,5.3
NEIC III 11 07 04 16.2–1.2 38.96N 142.40E 24–8 5.8b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=127.0.
MOS Error ellipse: s-maj=7.7km s-min=5.2km az=84.6.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.5km az=134.0. Recorded [4 JMA] in Iwate.
JMA III 11 07 04 32.8–.30 36.62N 141.41E 52
¶603049307
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 07 08 23.1–.10 37.31N 141.15E 34–1 3.9
¶602654471
JMA Event type fe.
JMA III 11 07 08 31.9–.10 36.26N 140.97E 28–2 3.9
¶602654468
JMA III 11 07 09 04.4–.10 36.28N 140.99E 41–2 3.4
¶603049358
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 07 09 11.1–.98 36.72N–.04 141.94E–.05 23–6 5.6b 283 1-152
IDC III 11 07 09 07.3–.55 36.70N 141.94E 0 5.1,5.0 ¶602654461
JMA III 11 07 09 10.6–.20 36.69N 141.99E 37–4 5.5,5.0
MOS III 11 07 09 10.9–.80 36.70N 141.83E 34 5.9b,5.0
ISCJB III 11 07 09 10.3–1.1 36.66N–.02 141.92E–.03 30–7 5.5b,5.0
NEIC III 11 07 09 12.1–1.1 36.71N 141.87E 28–8 5.7b,5.0
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=12.8km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.9km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=179.0.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=126.0.
ISC III 11 07 09 56.0–.45 36.71N–.07 141.89E–.06 19 5.4b 139 2-152
IDC III 11 07 09 52.9–.72 36.74N 141.97E 0 5.2,5.1 ¶17193686
ISCJB III 11 07 09 54.4–.26 36.70N–.05 141.86E–.05 19 5.4b,5.1
JMA III 11 07 09 54.1–.20 36.67N 142.10E 23 5.5,5.1
MOS III 11 07 09 55.7–1.0 36.78N 141.83E 29 5.8b,5.1
NEIC III 11 07 09 58.3–.19 36.72N 141.86E 35 5.6b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=16.0km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.6km az=151.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=8.9km az=72.1.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.3km az=153.0.
JMA III 11 07 12 50.9–.20 37.20N 141.19E 28–2 4.1
¶602654458
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 13 06.0–.10 36.44N 141.02E 38–1 4.0
¶603049308
JMA III 11 07 13 37.3–.20 38.86N 142.01E 44–2 3.8
¶603049309
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 07 14 58.6–.45 36.58N–.03 141.89E–.03 25–2 6.3b 1424 1-161
NIED III 11 07 14 00 36.60N 142.10E 23 6.5W ¶16318209
IDC III 11 07 14 54.0–.34 36.51N 141.92E 0 7.0,6.9s
BJI III 11 07 14 55.0 36.53N 141.84E 19 6.3s,6.2
ISCJB III 11 07 14 57.2–.78 36.55N–.02 141.88E–.02 26–5 6.7s,6.3b
JMA III 11 07 14 57.0–.20 36.56N 142.04E 25 6.8,6.3b
NEIC III 11 07 14 58.8–1.1 36.59N 141.82E 25–7 6.3b,6.3b
MOS III 11 07 15 00.3–1.1 36.65N 141.79E 48 6.6b,6.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ21.00000°,λ113.00000°. NP2:ϕ_s15.00000°,δ71.00000°,λ81.00000°. $M_0$6.16000×10^{18}
IDC Error ellipse: s-maj=10.4km s-min=8.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=125.0. Recorded [4 JMA] in Fukushima and Tochigi.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=112.6.
JMA III 11 07 16 55.6–.20 37.14N 141.42E 48–2 5.3
¶602653667
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 18 06.4–.10 36.41N 141.08E 23–1 5.3
¶600539028
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 19 54.9–.10 37.84N 141.85E 32–5 4.6
¶603049310
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 21 36.1–.20 37.30N 141.55E 45–3 4.2
¶17193696
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 22 11.3–.10 37.67N 141.76E 42–4 4.5
¶17193699
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 22 40.0–.20 38.98N 142.35E 38–3 4.4
¶602653658
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 07 22 43.9–.10 36.32N 141.02E 42–1 4.3
¶602653654
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 23 22.6–.50 36.99N 141.41E 37–4 4.6
¶16476217
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=4.4km az=-1.0.
JMA III 11 07 24 46.4–.10 36.57N 141.07E 42–1 4.0
¶602653650
ISC III 11 07 28 11.7–.99 36.86N–.03 141.89E–.03 25–6 6.1b 1134 1-161
IDC III 11 07 28 07.8–.35 36.87N 141.97E 0 5.8,5.7 ¶602707272
BJI III 11 07 28 08.9 36.70N 141.90E 20 6.4s,6.3
ISCJB III 11 07 28 10.2–.69 36.81N–.02 141.84E–.02 24–4 6.6s,6.0b
JMA III 11 07 28 11.3–.30 36.89N 141.87E 44–4 6.2,6.0b

MOS III 11 07 28 11.6–.89 36.90N 141.85E 33 6.2b,6.0b
NEIC III 11 07 28 12.4–1.1 36.82N 141.82E 28–7 6.1b,6.0b
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=8.9km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.6km az=162.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=102.4. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=130.0.
JMA III 11 07 28 52.2–.10 38.82N 142.15E 39–1 5.6
¶16304079

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 29 00.3–.60 39.00N–.03 142.45E–.04 34–2 6.3b 1055 1-159
IDC III 11 07 28 53.4–.41 38.75N 142.53E 0 6.7s,6.7 **¶16407474**
MOS III 11 07 28 58.8–1.3 39.00N 142.42E 33 6.5b,6.7
ISCJB III 11 07 28 59.2–.44 39.00N–.02 142.45E–.02 39–3 6.5s,6.2b
JMA III 11 07 28 59.8–.20 39.02N 142.31E 17–3 6.6,6.2b
NEIC III 11 07 29 01.8–.72 39.03N 142.35E 45–6 6.3b,6.2b
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=139.0.
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=92.2.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=41.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=127.0. Recorded [5U JMA] in Miyagi.
ISC III 11 07 30 15.3–.78 37.36N–.04 141.28E–.06 27–4 5.9b 83 0-152
MOS III 11 07 30 12.7–1.3 36.87N 141.14E 33 6.1b **¶16407475**
IDC III 11 07 30 14.5–2.2 37.14N 141.15E 28–6 5.8,5.8
ISCJB III 11 07 30 15.0–.78 37.34N–.03 141.30E–.07 38–5 5.8b,5.8
JMA III 11 07 30 15.6 37.36N 141.26E 27–1 5.9,5.8
NEIC III 11 07 30 18.4–.73 37.44N 141.20E 49–6 6.0b,5.8
ISC Event type se.
MOS Error ellipse: s-maj=16.3km s-min=9.5km az=95.5.
IDC Error ellipse: s-maj=64.3km s-min=27.8km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=4.8km az=20.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.7km az=106.0.
ISC III 11 07 31 17.6–1.2 36.14N–.06 141.56E–.09 26 5.3b 18 1-80
IDC III 11 07 31 12.8–6.0 36.14N 141.76E 0 5.4,5.4b **¶17193706**
JMA III 11 07 31 18.8–.20 36.15N 141.51E 39 5.4,5.4b
ISC Event type ke.
IDC Error ellipse: s-maj=116.7km s-min=78.7km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 31 54.0–.20 39.64N 142.61E 22–2 5.5
¶602653641

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 07 32 48.0–.30 36.01N 141.78E 27 4.8
¶602653640

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 07 33 27.7–.30 36.11N 141.24E 37–5 4.4
¶603049317

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 34 11.7–.20 38.89N 142.55E 24–2 5.6
¶602653633

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 36 35.5–.20 38.99N 142.29E 29–2 5.0
¶600539046

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 07 37 21.8–.10 38.59N 141.83E 42–2 4.5
¶602653631

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 07 37 53.2–1.0 39.30N–.05 142.39E–.09 29 4.8b 16 1-73
IDC III 11 07 37 48.4–1.2 39.27N 142.83E 0 5.0,4.9 **¶602653627**
ISCJB III 11 07 37 52.3–.79 39.32N–.05 142.44E–.08 29 4.8b,4.9
JMA III 11 07 37 56.8–.10 39.32N 142.15E 42–1 5.0,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=22.5km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.9km az=16.2.
JMA Event type fe.
ISC III 11 07 38 24.9–.33 39.27N–.03 142.94E–.03 20–2 5.8b 1132 1-154
BJI III 11 07 38 22.6 39.13N 143.03E 29 6.3s,6.1 **¶602653622**
ISCJB III 11 07 38 24.7–.92 39.12N–.02 142.91E–.02 30–6 6.7s,5.7b
MOS III 11 07 38 25.2–.92 39.27N 142.80E 30 5.9b,5.7b
IDC III 11 07 38 26.3–.60 39.20N 142.90E 31–4 5.3,5.3
JMA III 11 07 38 26.5–.20 39.25N 142.81E 16–2 5.8,5.3
NEIC III 11 07 38 27.6–.41 39.20N 142.79E 38–3 5.8b,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=174.4.
MOS Error ellipse: s-maj=5.7km s-min=3.9km az=93.6.
IDC Error ellipse: s-maj=11.8km s-min=9.8km az=127.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=136.0. Recorded [4 JMA] in Iwate.
JMA III 11 07 39 27.4–.10 38.50N 142.07E 37–1 5.0
¶603049318

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 40 54.0–.55 38.37N–.05 142.20E–.06 20–4 5.2b 136 1-151
ISCJB III 11 07 40 52.8–1.1 38.33N–.03 142.24E–.04 24–7 5.1b **¶602653620**
JMA III 11 07 40 53.8–.10 38.45N 142.29E 28–2 5.3
NEIC III 11 07 40 53.4–2.1 38.35N 142.19E 16–13 5.3b
MOS III 11 07 40 54.0–.80 38.36N 142.12E 33 5.5b
IDC III 11 07 40 55.3–.85 38.36N 142.22E 30–5 4.8,4.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.8km az=39.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=121.0.
MOS Error ellipse: s-maj=14.1km s-min=8.4km az=87.7.
IDC Error ellipse: s-maj=18.7km s-min=15.3km az=80.0.
JMA III 11 07 41 33.1–.10 36.23N 140.97E 23–2 3.7
¶602653616

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 42 50.5–.10 38.93N 141.89E 50–1 4.2
¶602653615

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 42 53.6–.63 36.37N–.04 141.96E–.05 23–4 5.6b 708 1-154
IDC III 11 07 42 50.4–.47 36.47N 142.06E 0 5.1,5.1 **¶16304938**
BJI III 11 07 42 50.8 36.36N 141.76E 11 6.2b,6.0s
ISCJB III 11 07 42 52.8–.12 36.37N–.03 141.94E–.02 27 5.4b,6.0s
MOS III 11 07 42 54.3–1.0 36.48N 142.03E 33 5.9b,6.0s
NEIC III 11 07 42 55.6–.15 36.40N 141.89E 35 5.7b,6.0s
JMA III 11 07 42 55.5–.10 36.08N 141.23E 37–2 5.4,6.0s
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=12.4km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=173.9.
MOS Error ellipse: s-maj=8.9km s-min=4.7km az=108.4.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 42 55.4–.10 39.20N 142.41E 30–1 4.6
¶602653612

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 44 29.6–.43 36.21N–.03 141.86E–.04 25–3 5.7b 410 1-161
ISCJB III 11 07 44 25.1–1.3 36.17N–.02 141.87E–.02 6–8 5.6b **¶17193712**
NEIC III 11 07 44 28.0–1.6 36.20N 141.81E 14–10 5.8b
MOS III 11 07 44 29.7–.88 36.22N 141.78E 39 6.0b
IDC III 11 07 44 29.9–.45 36.22N 141.84E 26–2 5.3,5.2
JMA III 11 07 44 29.0–.20 36.30N 141.90E 60 5.6,5.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=172.6.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.3km az=124.0.
MOS Error ellipse: s-maj=7.6km s-min=5.7km az=100.4.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 07 45 12.6–.10 39.62N 142.64E 26–1 4.9
¶603049321

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 45 22.2–.92 36.01N–.06 141.12E–.08 31 5.2b 16 0-79
IDC III 11 07 45 16.8–5.7 35.92N 141.40E 0 5.4,5.3 **¶17193716**
ISCJB III 11 07 45 21.0–.76 36.06N–.06 141.18E–.07 31 5.2b,5.3
JMA III 11 07 45 22.2–.10 35.99N 141.07E 41–2 5.0,5.3
ISC Event type ke.
IDC Error ellipse: s-maj=160.7km s-min=28.7km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=7.5km az=36.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 47 27.5–.10 35.91N 141.57E 60 4.4
¶602653611

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 07 49 48.7–.49 36.53N–.04 141.81E–.05 29–3 5.4b 304 1-151
JMA III 11 07 49 45.5–.20 36.56N 141.97E 34–5 5.5 **¶602653604**
ISCJB III 11 07 49 46.0–.83 36.55N–.02 141.83E–.03 21–5 5.4b
NEIC III 11 07 49 48.5–1.8 36.53N 141.76E 27–12 5.4b
IDC III 11 07 49 48.9–.50 36.51N 141.76E 31–3 4.9,4.8
MOS III 11 07 49 49.0–1.1 36.55N 141.71E 42 5.7b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.8km az=30.6.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=100.0.
IDC Error ellipse: s-maj=12.0km s-min=11.5km az=104.0.
MOS Error ellipse: s-maj=9.5km s-min=5.9km az=122.6.
ISC III 11 07 51 51.0–.47 36.48N–.07 141.64E–.07 26 5.0b 57 1-159
IDC III 11 07 51 47.0–1.1 36.60N 141.73E 0 4.9,4.7 **¶602653602**
JMA III 11 07 51 48.0–.20 36.31N 141.94E 55 4.7,4.7
ISCJB III 11 07 51 49.1–.34 36.49N–.05 141.73E–.07 26 4.9b,4.7
NEIC III 11 07 51 53.4–1.1 36.55N 141.68E 44–10 5.0b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=20.9km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.5km az=136.4.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.0km az=130.0.
JMA III 11 07 52 22.5–.10 38.54N 142.09E 37–2 4.3
¶16407482

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 53 26.2–.44 36.76N–.07 141.98E–.07 19 4.9b 96 1-146
ISCJB III 11 07 53 24.3–.27 36.73N–.04 142.03E–.04 19 4.8b **¶16407483**
JMA III 11 07 53 25.4–.20 36.77N 141.95E 6–3 5.0
MOS III 11 07 53 26.7–1.0 36.79N 141.97E 35 5.1b
NEIC III 11 07 53 29.2–.72 36.73N 141.96E 42–7 5.0b
IDC III 11 07 53 29.9–2.8 36.73N 141.96E 49–26 4.6,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=148.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=12.0km s-min=10.0km az=86.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.6km az=123.0.
IDC Error ellipse: s-maj=20.2km s-min=17.5km az=100.0.
ISC III 11 07 53 59.4–1.1 38.94N–.04 142.36E–.05 19–4 4.9b 57 1-89
ISCJB III 11 07 53 59.7–1.2 38.90N–.03 142.42E–.05 33–8 4.8b **¶602653600**
JMA III 11 07 54 00.1–.20 39.00N 142.37E 27–2 4.9
IDC III 11 07 54 03.8–3.8 38.88N 142.39E 59–37 4.7,4.6
NEIC III 11 07 54 03.5–.72 38.84N 142.43E 56–7 4.9b,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.5km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=16.7km az=108.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=4.8km az=123.0.
ISC III 11 07 54 44.3–.36 37.73N–.04 141.71E–.04 45–3 5.6b 1067 1-160
BJI III 11 07 54 39.0 37.45N 141.85E 36 5.9s,5.7 **¶17193717**
JMA III 11 07 54 43.3–.10 37.67N 141.68E 35–3 5.5,5.7
ISCJB III 11 07 54 43.9–.35 37.73N–.02 141.58E–.02 52–3 6.5s,5.5b
MOS III 11 07 54 43.3–.87 37.90N 141.62E 41 5.8b,5.5b
IDC III 11 07 54 44.4–.50 37.73N 141.68E 47–4 5.2,5.1
NEIC III 11 07 54 45.4–.31 37.74N 141.57E 51–2 5.7b,5.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=154.4.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=97.0.
IDC Error ellipse: s-maj=10.2km s-min=9.5km az=142.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=143.0. Recorded [3 JMA] in Aomori, Fukushima, Iwate and Miyagi.
JMA III 11 07 58 17.6–.20 38.37N 141.74E 46–2 4.0
¶602653597

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 11 07 58 29.5–.10 39.41N 142.72E 32–1 4.6
¶602653594

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 58 54.2–.10 38.88N 142.39E 37–3 4.5
¶602653591

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 07 59 08.6–.10 37.40N 141.90E 37–4 4.3
¶603049323

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 08 03 29.5–.10 37.07N 141.16E 49–1 4.8
¶602653581

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 08 03 56.3–.20 39.19N 142.99E 23–2 5.3
¶16461287

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 08 07 59.8–.30 36.01N 141.05E 29–4 3.7
¶602653579

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 08 10 30.8–.31 36.08N–.04 141.54E–.04 26 5.5b 619 1-152
IDC III 11 08 10 26.9–.41 36.05N 141.76E 0 5.2,5.1 **¶17193722**
BJI III 11 08 10 28.6 36.24N 140.45E 15 5.9s,5.8
JMA III 11 08 10 28.5–.20 36.06N 141.71E 18–3 5.4,5.8
NEIC III 11 08 10 29.3–2.2 36.29N 140.85E 20–14 5.6b,5.8
ISCJB III 11 08 10 29.5–.12 36.00N–.03 141.60E–.03 26 5.9s,5.4b
MOS III 11 08 10 30.6–.83 36.04N 141.58E 33 5.7b,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.3km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=3.1km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=145.3.
MOS Error ellipse: s-maj=12.0km s-min=7.3km az=75.2.
ISC III 11 08 12 06.7–.46 36.61N–.03 141.59E–.03 35–1 6.2b 1950 1-161
BJI III 11 08 12 01.5 36.60N 141.60E 10 6.6b,6.6s **¶17193724**
ISCJB III 11 08 12 04.3–.76 36.58N–.01 141.56E–.02 28–5 6.6s,6.2b
JMA III 11 08 12 06.4–.20 36.55N 141.39E 32–4 6.6,6.2b
MOS III 11 08 12 06.2–.92 36.71N 141.53E 40 6.4b,6.2b
NEIC III 11 08 12 07.3–.38 36.57N 141.49E 40–3 6.2b,6.2b
IDC III 11 08 12 07.2–1.9 36.60N 141.57E 39–16 5.8,5.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=162.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.3km s-min=3.5km az=110.9.
NEIC Event type fe. Error ellipse: s-maj=2.3km s-min=1.8km az=141.0. Recorded [4 JMA] in Fukushima and Tochigi.
IDC Error ellipse: s-maj=9.7km s-min=7.9km az=95.0.
JMA III 11 08 18 24.4–.20 39.25N 142.92E 34–3 4.7
¶602653456

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 08 19 08.1–.20 38.86N 142.37E 28–2 4.9
¶602653453

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 08 19 16.8–.48 36.12N–.04 141.68E–.04 22–3 5.4b 505 1-152
IDC III 11 08 19 12.8–.39 36.11N 141.81E 0 5.3,5.3 **¶16476247**
ISCJB III 11 08 19 13.6–1.2 36.08N–.02 141.76E–.03 12–7 6.9s,5.4b

NEIC III 11 08 19 14.5–.57 36.12N 141.70E 8–3 5.4b,5.4b
JMA III 11 08 19 17.2–.20 36.16N 141.72E 36–4 6.8,5.4b
MOS III 11 08 19 17.1–.97 36.15N 141.71E 37 5.7b,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=9.3km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=143.3.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=92.0.
ISC III 11 08 19 27.5–.21 36.19N–.03 141.66E–.04 26 7.1s,6.5b 1565 3-161
BJI III 11 08 19 20.1 35.90N 142.00E 20 6.9s,6.8 **¶602707274**
IDC III 11 08 19 23.3–.31 36.16N 141.80E 0 6.9,6.9s
NEIC III 11 08 19 24.4–1.7 36.17N 141.56E 7–10 6.5b,6.9s
ISCJB III 11 08 19 25.9–.07 36.13N–.02 141.68E–.02 26 7.0s,6.4b
MOS III 11 08 19 26.0–1.0 36.15N 141.66E 26 7.1s,6.7b
ISC Event type ke.
IDC Error ellipse: s-maj=10.1km s-min=8.2km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=129.0. Felt at Yokosuka. Recorded [4 JMA] in Chiba, Fukushima, Ibaraki, Saitama and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=158.5.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=109.3.
JMA III 11 08 23 12.6–.30 38.76N 142.72E 19–5 4.9
¶602653452
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 08 27 17.2–.20 37.46N 141.46E 43–3 5.1
¶603049327
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 08 27 48.9–.67 38.02N–.04 142.74E–.04 23–4 6.0b 870 1-161
IDC III 11 08 27 44.4–.34 37.91N 142.84E 0 6.4s,6.4 **¶602653450**
ISCJB III 11 08 27 47.3–1.0 37.98N–.02 142.72E–.02 21–7 6.8s,6.0b
JMA III 11 08 27 48.3–.30 38.03N 142.79E 30 6.2,6.0b
MOS III 11 08 27 48.7–.98 38.04N 142.70E 34 6.2b,6.0b
NEIC III 11 08 27 51.6–.65 38.02N 142.66E 43–5 6.0b,6.0b
ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=143.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=78.1.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=130.0.
JMA III 11 08 28 28.4–.10 36.78N 141.03E 46–2 4.7
¶600539089
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 08 29 49.7–.20 37.39N 141.99E 12–3 5.1
¶602653449
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 08 31 07.7–.60 37.45N–.03 141.31E–.04 29–4 6.0b 1128 0-155
IDC III 11 08 31 03.2–.36 37.48N 141.31E 0 5.6,5.6 **¶16304942**
BJI III 11 08 31 05.8 37.40N 141.10E 20 6.4s,6.2
MOS III 11 08 31 05.9–.98 37.54N 141.21E 26 6.2b,6.2
JMA III 11 08 31 07.8–.10 37.47N 141.38E 31–1 5.9,6.2
ISCJB III 11 08 31 08.0–.35 37.46N–.02 141.17E–.02 41–3 6.4s,5.9b
NEIC III 11 08 31 09.3–.46 37.47N 141.18E 37–4 6.0b,5.9b
ISC Event type se.
IDC Error ellipse: s-maj=11.1km s-min=8.8km az=94.0.
MOS Error ellipse: s-maj=6.0km s-min=3.8km az=104.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=160.6.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=134.0. Recorded [4 JMA] in Fukushima, Miyagi, Tochigi and Yamagata.
JMA III 11 08 33 42.3–.10 37.44N 141.36E 31–1 4.9
¶602653448
JMA Event type fe.
ISC III 11 08 35 21.2–.71 36.02N–.05 141.06E–.06 16–4 5.5b 341 0-155
ISCJB III 11 08 35 17.9–1.4 35.95N–.03 140.99E–.04 5–8 5.5b **¶16409229**
IDC III 11 08 35 18.5–.44 36.01N 141.08E 0 5.4,5.3b
MOS III 11 08 35 20.5–.91 36.03N 140.97E 21 5.7b,5.3b
JMA III 11 08 35 22.2–.10 36.07N 141.13E 37–2 5.2,5.3b
NEIC III 11 08 35 22.1–1.5 36.03N 140.98E 20–9 5.6b,5.3b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.9km az=142.8.
IDC Error ellipse: s-maj=13.3km s-min=12.3km az=66.0.
MOS Error ellipse: s-maj=8.5km s-min=5.9km az=80.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=134.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
JMA III 11 08 36 29.0–.20 39.57N 142.73E 23–2 5.3
¶602653445
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 08 40 54.8–.52 37.39N–.03 141.16E–.04 32–3 5.9b 1172 0-157
IDC III 11 08 40 49.8–.32 37.44N 141.11E 0 6.3,6.3s **¶600539099**
BJI III 11 08 40 52.8 37.37N 141.00E 25 6.2b,6.0
MOS III 11 08 40 53.4–.86 37.48N 141.04E 30 6.1b,6.0
ISCJB III 11 08 40 54.7–.30 37.42N–.02 141.06E–.02 42–2 6.3s,5.8b
JMA III 11 08 40 54.5–.10 37.42N 141.27E 30–1 6.0,5.8b
NEIC III 11 08 40 56.1–.46 37.45N 140.98E 40–4 5.9b,5.8b
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=8.6km az=99.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=98.7.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=149.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=128.0. Recorded [5U JMA] in Fukushima.
ISC III 11 08 43 57.6–.35 36.10N–.05 141.20E–.05 26 5.5b 209 0-150
IDC III 11 08 43 49.5–.44 36.55N 141.59E 0 5.0,4.9 **¶602653443**
JMA III 11 08 43 53.3–.30 36.27N 142.09E 0 6.0,4.9
ISCJB III 11 08 43 53.7–.18 36.03N–.04 141.05E–.04 10 5.4b,4.9
MOS III 11 08 43 58.4–1.8 36.06N 140.83E 47 5.8b,4.9
NEIC III 11 08 44 00.1–1.3 36.12N 140.97E 47–11 5.6b,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=10.8km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=148.1.
MOS Error ellipse: s-maj=9.6km s-min=7.9km az=127.6.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.1km az=121.0.
JMA III 11 08 47 55.9–.10 38.83N 142.07E 41–1 5.1
¶16304094
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 08 52 03.8–.57 36.33N–.08 141.11E–.10 32 5.0b 34 3-81
IDC III 11 08 51 59.5–1.2 36.32N 140.96E 0 4.6,4.5 **¶16304944**
ISCJB III 11 08 52 01.6–.40 36.32N–.05 141.14E–.08 32 4.9b,4.5
NEIC III 11 08 52 04.7–.74 36.33N 141.10E 41–7 5.3b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=21.5km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.7km az=22.1.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.7km az=113.0.
ISC III 11 08 52 25.7–.35 36.75N–.04 141.97E–.05 36–2 5.4b 956 1-154
IDC III 11 08 52 20.0–.40 36.73N 142.04E 0 5.1,5.1 **¶16409257**
JMA III 11 08 52 20.6–.30 36.77N 141.95E 0–3 5.6,5.1
ISCJB III 11 08 52 21.7–.74 36.74N–.02 141.98E–.02 17–5 5.6s,5.3b
BJI III 11 08 52 22.1 36.68N 141.80E 23 5.7s,5.6b
NEIC III 11 08 52 23.4–1.6 36.77N 141.92E 17–10 5.5b,5.6b
MOS III 11 08 52 24.9–.97 36.93N 141.89E 33 5.6b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=10.6km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=172.5.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=138.0.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=109.2.
ISC III 11 08 53 59.9–.53 36.62N–.07 141.73E–.07 26 4.7b 53 1-148
IDC III 11 08 53 55.4–.70 36.58N 141.86E 0 4.8,4.6 **¶16409234**
ISCJB III 11 08 53 57.9–.35 36.57N–.05 141.75E–.06 26 4.7b,4.6
NEIC III 11 08 54 01.4–1.2 36.56N 141.72E 39–11 4.8b,4.6
JMA III 11 08 54 07.5–.10 37.66N 141.68E 40–4 5.0,4.6
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=18.0km az=17.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.6km az=38.3.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.2km az=70.0. Recorded [3 JMA] in Fukushima and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 08 55 06.2–.54 36.60N–.08 141.61E–.09 26 4.9b 48 4-152
IDC III 11 08 55 01.2–.98 36.52N 141.65E 0 6.1s,6.1 **¶602653428**
ISCJB III 11 08 55 04.2–.43 36.61N–.06 141.60E–.08 26 5.8s,4.8b
NEIC III 11 08 55 07.5–.82 36.61N 141.60E 36–7 5.0b,4.8b
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=24.8km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.8km az=37.5.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=118.0.
ISC III 11 08 56 06.7–.49 38.82N–.06 142.39E–.05 27 4.8b 80 1-155
IDC III 11 08 56 02.4–.67 38.83N 142.36E 0 4.6,4.5 **¶602653430**
ISCJB III 11 08 56 04.7–.26 38.73N–.04 142.47E–.04 27 4.8b,4.5
JMA III 11 08 56 07.1–.20 38.93N 142.39E 23–2 4.8,4.5
NEIC III 11 08 56 07.6–2.5 38.80N 142.29E 35–18 4.9b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=16.4km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.7km az=161.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.1km az=125.0.
JMA III 11 08 56 22.0–.10 37.40N 141.36E 28–1 4.2
¶16409236
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 08 56 40.8–.10 35.98N 140.99E 32–2 4.1
¶603049329
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 00 00.6 36.80N 140.98E 54–1 3.6
¶602653422
JMA Event type fe.
JMA III 11 09 02 14.5–.10 38.55N 142.02E 27–2 3.9
¶602653413
JMA Event type fe.
JMA III 11 09 02 34.4–.10 37.11N 141.26E 43–1 3.6
¶602653410
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 03 02.3–.10 35.84N 141.43E 26–2 3.8
¶602653405
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 03 31.8 35.97N 141.03E 30–1 3.7
¶602653402
JMA Event type fe.
JMA III 11 09 03 33.0–.10 35.94N 140.83E 47–1 3.6
¶602653400
JMA III 11 09 06 06.3–.20 36.78N 141.31E 17–4 4.5
¶603049332
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 06 54.2–.10 36.45N 141.08E 36–1 3.7
¶602653391
JMA Event type fe.
JMA III 11 09 08 35.9–.10 36.07N 141.10E 42–1 3.7
¶602653388
JMA Event type fe.
JMA III 11 09 08 59.4–.10 36.32N 141.16E 48–2 3.6
¶603049333
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 09 47.7–.10 37.20N 141.38E 48–1 5.7
¶602653382
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 11 03.3–.20 38.84N 142.09E 41–3 4.6
¶16304102
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 11 09 15 14.3–.10 38.57N 141.94E 37–3 4.1
¶602653345
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 09 15 17.1–.10 37.30N 141.16E 35–1 4.8
¶603049334
JMA Event type fe.
JMA III 11 09 16 03.6–.20 36.68N 141.29E 53–3 3.8
¶602653341
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 11 09 18 17.1 36.64N 141.05E 40–1 3.7
¶602653330
JMA Event type fe.
JMA III 11 09 19 22.7–.10 38.34N 142.07E 35–2 4.0
¶603049336
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 19 52.9 36.56N 140.95E 15–1 5.0
¶602653325
JMA Event type fe.
JMA III 11 09 21 30.8–.10 36.14N 140.98E 45–2 3.4
¶602653317
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 23 07.7–.20 37.99N 141.91E 29–3 3.7
¶602653306
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 09 24 05.5–.85 36.06N–.05 141.1E–.10 10 4.2b 11 0-79
JMA III 11 09 24 03.8 36.04N 141.22E 23–1 3.6 **¶16476257**
ISCJB III 11 09 24 04.4–.71 36.06N–.05 141.17E–.09 10 4.1b
IDC III 11 09 24 13.2–3.2 37.40N 141.59E 0 4.4,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.8km az=17.6.
IDC Error ellipse: s-maj=81.6km s-min=42.2km az=179.0.
ISC III 11 09 24 27.7–.42 36.17N–.05 141.51E–.05 26 4.5b 78 1-152
IDC III 11 09 24 24.0–.49 36.21N 141.46E 0 4.5,4.4 **¶17193735**
ISCJB III 11 09 24 25.8–.32 36.18N–.04 141.61E–.04 26 4.5b,4.4
JMA III 11 09 24 26.6–.20 36.24N 141.64E 40–5 4.4,4.4
NEIC III 11 09 24 29.2–1.0 36.20N 141.45E 36–9 4.9b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=11.6km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=139.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.1km az=108.0.
ISC III 11 09 25 49.8–.38 36.08N–.04 141.88E–.05 23 4.6b 84 1-152
ISCJB III 11 09 25 48.2–.27 36.11N–.03 141.92E–.03 23 4.5b **¶16461297**
NEIC III 11 09 25 49.8–1.9 36.11N 141.86E 22–13 4.7b
JMA III 11 09 25 50.1–.10 36.16N 141.87E 54–3 4.8
IDC III 11 09 25 51.2–5.3 36.09N 141.86E 30–38 4.5,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=178.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.3km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.2km az=111.0.
JMA III 11 09 26 34.7–.10 38.88N 142.73E 23–1 4.1
¶602653286
JMA Event type fe.
ISC III 11 09 27 42.0–.35 38.28N–.04 142.06E–.04 65–2 5.2b 418 1-156
BJI III 11 09 27 33.2 38.43N 142.47E 25 5.2b **¶16309749**
JMA III 11 09 27 37.8–.20 38.30N 142.19E 36–3 5.4
MOS III 11 09 27 37.4–.93 38.46N 142.21E 33 5.5b
ISCJB III 11 09 27 38.5–.49 38.30N–.03 142.15E–.03 47–4 6.2s,5.2b
NEIC III 11 09 27 42.2–.53 38.30N 142.16E 68–5 5.3b,5.2b
IDC III 11 09 27 43.4–1.8 38.28N 142.15E 79–16 6.1s,6.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=98.7.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=138.6.

NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=135.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=10.3km s-min=9.2km az=109.0.
JMA III 11 09 29 41.0–.10 35.95N 141.29E 31–2 3.9 ¶602654329

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 30 33.8–.10 36.39N 141.81E 61 3.9 ¶602654325

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 30 37.0–.10 39.08N 142.28E 42–2 3.7 ¶602654322

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 09 31 59.6–1.1 38.4N–.20 142.94E–.09 23 4.4b 15 1-88
IDC III 11 09 31 56.0–1.2 38.45N 142.92E 0 4.6,4.4 ¶17193739
ISCJB III 11 09 31 57.6–.93 38.5N–.20 143.06E–.10 23 4.4b,4.4
JMA III 11 09 31 59.3–.30 38.49N 142.91E 8–4 4.6,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=27.2km az=7.0.
ISCJB Event type fe. Error ellipse: s-maj=23.2km s-min=10.1km az=169.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 09 33 35.7–.20 37.42N 141.73E 40–4 4.5 ¶603049337

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 09 34 18.0–1.5 37.29N–.04 141.44E–.07 32–9 5.0b 37 0-152
NEIC III 11 09 34 12.8–.52 37.70N 142.65E 35 5.0b ¶600539230
ISCJB III 11 09 34 18.0–.91 37.26N–.04 141.40E–.09 55–5 5.0b
JMA III 11 09 34 20.3–.10 37.30N 141.27E 46–1 4.8
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=13.9km s-min=9.1km az=119.0. Recorded [3 JMA] in Fukushima and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.2km az=15.8.
JMA Event type fe.
JMA III 11 09 35 03.7–.20 35.89N 141.00E 23–3 4.0 ¶16461300

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 36 47.5–.30 35.85N 140.94E 22–2 3.6 ¶602654302

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 09 37 08.1–.28 35.94N–.03 141.60E–.03 29–1 5.5b 1191 1-154
IDC III 11 09 37 03.6–.35 35.94N 141.72E 0 5.1,5.0 ¶16304107
NEIC III 11 09 37 04.6–1.4 35.91N 141.60E 6–8 5.5b,5.0
ISCJB III 11 09 37 05.9–.79 35.95N–.02 141.62E–.02 24–5 5.6s,5.5b
BJI III 11 09 37 05.6 35.92N 141.59E 29 5.8s,5.6
MOS III 11 09 37 06.2–1.0 35.97N 141.58E 26 5.6b,5.6
JMA III 11 09 37 06.4–.20 36.03N 141.77E 31–3 5.3,5.6
ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=8.7km az=98.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=128.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Saitama and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=136.1.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 38 14.2–.20 36.86N 141.13E 49–1 4.1 ¶602654298

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 38 25.4–.10 36.89N 141.09E 49–1 4.3 ¶602654292

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 39 26.4–.10 35.74N 141.03E 34–1 3.6 ¶602654290

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 40 19.0–.20 38.29N 142.57E 0 5.1 ¶600539247

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 41 38.7–.10 37.32N 141.10E 28–1 4.1 ¶602654284

JMA Event type fe.
ISC III 11 09 42 20.9–.81 39.48N–.03 142.84E–.04 25–5 5.2b 851 2-159
IDC III 11 09 42 17.6–.45 39.54N 142.79E 0 5.1,5.0 ¶16304945
JMA III 11 09 42 20.1–.20 39.50N 142.75E 24–2 5.6,5.0
ISCJB III 11 09 42 20.2–.91 39.53N–.02 142.78E–.02 26–6 5.3s,5.1b
MOS III 11 09 42 20.0–.87 39.68N 142.72E 20 5.4b,5.1b
BJI III 11 09 42 20.1 39.43N 142.75E 32 5.8s,5.6
NEIC III 11 09 42 20.6–1.6 39.50N 142.71E 18–9 5.3b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=149.3.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=86.5.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=142.0. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
JMA III 11 09 42 34.8–.40 36.35N 141.60E 16 3.9 ¶602654281

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 09 44 18.1 36.74N 140.79E 14–1 3.6 ¶602654279

JMA Event type fe.
JMA III 11 09 44 49.1–.20 38.99N 142.48E 24–3 3.9 ¶603049338

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 47 50.6–.10 35.98N 141.14E 20–2 4.0 ¶602654266

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 09 48 39.2–.10 36.53N 140.85E 49–1 4.2 ¶16304946

JMA Event type fe.
JMA III 11 09 50 21.9 36.55N 140.92E 48–1 3.9 ¶602654262

JMA Event type fe.
ISC III 11 09 51 03.7–.44 36.22N–.05 141.88E–.05 23 4.7b 58 1-147
ISCJB III 11 09 51 01.6–.33 36.23N–.04 141.95E–.04 23 4.6b ¶602654256
JMA III 11 09 51 03.3–.20 36.29N 141.97E 44 4.4
NEIC III 11 09 51 06.7–.83 36.22N 141.82E 48–7 5.1b
IDC III 11 09 51 06.3–2.0 36.22N 141.84E 44–18 4.6,4.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=44.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=107.0.
IDC Error ellipse: s-maj=15.5km s-min=9.9km az=87.0.
JMA III 11 09 51 40.5–.40 35.86N 140.91E 21–3 3.6 ¶16461303

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 09 52 42.2–.51 37.68N–.04 141.88E–.05 44–4 5.0b 234 1-146
JMA III 11 09 52 41.0–.10 37.69N 141.85E 32–3 4.9 ¶16313878
ISCJB III 11 09 52 41.1–.57 37.67N–.03 141.85E–.04 47–4 5.2s,5.0b
MOS III 11 09 52 42.8–.86 37.88N 141.71E 51 5.2b,5.0b
NEIC III 11 09 52 43.8–.59 37.72N 141.81E 56–5 5.0b,5.0b
IDC III 11 09 52 44.1–2.0 37.73N 141.82E 59–17 5.2s,5.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=27.0.
MOS Error ellipse: s-maj=8.7km s-min=6.6km az=114.1.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=131.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.6km s-min=8.8km az=111.0.
ISC III 11 09 55 02.3–.40 38.05N–.05 142.80E–.05 18 4.8b 97 1-154
IDC III 11 09 54 58.1–.47 38.21N 143.31E 0 4.7,4.6 ¶602654248
NEIC III 11 09 55 00.0–.36 38.12N 143.07E 10 4.7,4.6
ISCJB III 11 09 55 00.3–.30 38.08N–.04 142.89E–.04 18 4.7b,4.6
JMA III 11 09 55 03.7–.20 38.09N 142.64E 20 5.4,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=13.3km s-min=11.2km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.8km az=129.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=150.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 09 55 03.4–.10 36.12N 141.13E 44–2 4.0 ¶602654252
ISC III 11 09 55 25.0–1.0 36.90N–.08 141.77E–.06 34–2 4.8b 38 1-83
ISCJB III 11 09 55 20.4–1.6 36.73N–.06 141.95E–.06 15–9 4.9b ¶16476137
JMA III 11 09 55 21.2–.30 36.75N 141.80E 0 5.4
NEIC III 11 09 55 27.2–.59 37.41N 141.69E 35 5.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=8.0km az=163.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=10.3km az=122.0.
JMA III 11 09 55 39.0–.10 36.23N 140.88E 45–1 5.0 ¶603145343

JMA III 11 09 57 13.4 36.67N 140.95E 48–1 4.3 ¶602654246

JMA Event type fe.
JMA III 11 10 00 52.3–.20 37.46N 141.28E 28–3 4.0 ¶603049341

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 02 39.9–.20 38.44N 142.03E 36–4 4.1 ¶602654240

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 10 03 20.9–.10 37.40N 141.28E 24–1 4.0 ¶602654237

JMA Event type fe.
JMA III 11 10 04 39.8–.10 36.32N 140.50E 14–1 3.0 ¶603049343

JMA Event type fe.
ISC III 11 10 05 10.5–.48 36.56N–.06 141.81E–.06 26 4.6b 56 1-152
IDC III 11 10 05 06.5–.66 36.67N 141.77E 0 4.7,4.5 ¶17193754
ISCJB III 11 10 05 08.7–.35 36.62N–.05 141.80E–.05 26 4.5b,4.5
NEIC III 11 10 05 11.9–1.0 36.62N 141.72E 36–9 4.7b,4.5
JMA III 11 10 05 20.0–.20 36.77N 141.34E 33–3 4.6,4.5
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=16.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.5km az=157.1.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=60.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 05 18.5–.30 39.24N 142.92E 24–4 4.1 ¶602654232

JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
JMA III 11 10 06 36.7–.50 36.38N 142.00E 74 3.8 ¶602654228

JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
ISC III 11 10 10 18.6–.61 38.8N–.10 142.69E–.08 27 4.6b 48 1-145
IDC III 11 10 10 14.8–.64 38.85N 142.63E 0 4.5,4.4 ¶16476280
NEIC III 11 10 10 15.3–3.3 38.83N 142.70E 5–20 4.9b,4.4
ISCJB III 11 10 10 16.9–.42 38.81N–.07 142.70E–.06 27 4.5b,4.4
JMA III 11 10 10 18.5–.30 38.94N 142.59E 31–5 4.7,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=15.4km az=101.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.0km az=152.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 10 10 34.5–.47 39.22N–.03 142.59E–.03 28–3 6.2s,6.0b 1801 2-159
NIED III 11 10 10 00 39.40N 142.10E 53 6.2W,6.0b ¶17193757
ISCJB III 11 10 10 29.6–.73 39.14N–.02 142.83E–.02 7–4 6.2s,5.9b
IDC III 11 10 10 30.5–.32 39.24N 142.77E 0 6.2,6.2s
BJI III 11 10 10 30.3 39.30N 142.80E 30 6.4b,6.1
MOS III 11 10 10 33.7–1.2 39.20N 142.72E 32 6.3s,6.2b
NEIC III 11 10 10 34.2–.97 39.19N 142.76E 26–6 6.0b,6.2b
JMA III 11 10 10 39.7–.10 39.33N 142.15E 44–1 6.2,6.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ19.00000°,λ69.00000°. NP2:ϕ_s29.00000°,δ72.00000°,λ97.00000°. $M_0$1.90000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=154.8.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=96.0.
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=108.6.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=141.0. Recorded [4 JMA] in Iwate and Miyagi.
JMA Event type fe.
JMA III 11 10 10 42.4–.20 36.25N 141.67E 35–5 4.0 ¶602654218

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 12 46.8–.10 38.31N 141.63E 54–1 4.6 ¶602654216

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 10 13 03.2–.30 36.07N 141.40E 39–4 4.4 ¶602654213

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 10 13 12.4–.10 38.63N 141.92E 46–1 5.3 ¶602654211

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 10 15 28.9–.10 38.35N 141.81E 49–2 4.4 ¶602654208

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 10 15 49.2–.40 35.89N–.05 140.96E–.06 31 4.8b 69 0-152
IDC III 11 10 15 44.3–.57 35.86N 141.06E 0 4.7,4.6 ¶16461308
ISCJB III 11 10 15 47.5–.33 35.92N–.04 141.00E–.04 31 4.7b,4.6
JMA III 11 10 15 48.1–.10 35.99N 141.03E 36–1 4.6,4.6
NEIC III 11 10 15 49.4–.27 35.81N 140.98E 35 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=15.0km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=5.0km az=37.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=91.0.
ISC III 11 10 16 14.4–.96 36.4N–.10 142.0E–.10 19 4.8b 12 4-147
IDC III 11 10 16 10.8–1.6 36.32N 141.90E 0 4.9,4.8 ¶17193761
ISCJB III 11 10 16 12.7–.92 36.5N–.10 141.9E–.10 19 4.7b,4.8
ISC Event type ke.
ISCJB Event type ke.
JMA III 11 10 18 34.7–.10 36.60N 141.00E 42–1 3.6 ¶602654199

JMA Event type fe.
JMA III 11 10 19 29.4 36.74N 140.61E 4 2.3 ¶603049346

ISC III 11 10 19 52.2–.45 36.02N–.05 141.70E–.06 26 4.6b 52 1-152
IDC III 11 10 19 48.4–.59 36.02N 141.65E 0 5.2L,4.6 ¶16476285
JMA III 11 10 19 50.6–.30 36.11N 141.78E 26 4.5,4.6
ISCJB III 11 10 19 50.3–.34 35.99N–.04 141.79E–.05 26 4.6b,4.6
NEIC III 11 10 19 51.6–2.7 36.05N 141.61E 22–19 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.9km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=41.2.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.2km az=101.0.
ISC III 11 10 26 50.9–1.6 36.73N–.04 141.53E–.05 15–10 4.5b 61 1-155
IDC III 11 10 26 48.4–.55 36.69N 141.59E 0 4.8L,4.6 ¶600539312
ISCJB III 11 10 26 50.7–1.0 36.72N–.03 141.61E–.05 28–7 4.4b,4.6
NEIC III 11 10 26 53.6–.28 36.69N 141.50E 35 4.7b,4.6
JMA III 11 10 26 53.0–.20 36.75N 141.49E 46–2 4.5,4.6
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=14.4km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=174.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.1km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 27 47.4–.20 37.34N 141.92E 21–3 4.6

¶603049347

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 10 28 34.4–1.1 38.8N–.20 143.0E–.20 16 4.8b 15 4-82
IDC III 11 10 28 31.8–.96 38.87N 143.07E 0 5.3,5.3s **¶602707279**
ISCJB III 11 10 28 32.3–.86 38.8N–.10 143.1E–.20 16 5.3s,4.8b
ISC Event type ke.
ISCJB Event type ke.
JMA III 11 10 28 43.6–.20 36.31N 140.84E 35–2 3.8
¶602654174

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 30 20.8–.20 35.91N 141.14E 37–2 3.7
¶602654167

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 31 15.8–.20 38.48N 142.22E 31–3 4.3
¶602654163

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 10 32 04.0–.10 36.80N 141.15E 34–1 4.1
¶602654160

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 10 32 32.0–.10 39.20N 142.40E 28–1 4.8
¶602654156

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 10 32 49.4–.40 36.32N 141.42E 36 3.7
¶602654152

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 10 34 52.1–.89 38.5N–.10 141.5E–.20 66 4.4b 17 3-81
IDC III 11 10 34 43.2–.82 38.40N 141.38E 0 4.5,4.4 **¶16476303**
ISCJB III 11 10 34 50.1–.68 38.5N–.10 141.6E–.20 66 4.3b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 10 35 02.8–1.2 38.1N–.20 142.7E–.20 14 4.5b 11 4-82
ISCJB III 11 10 35 00.7–1.0 38.1N–.10 142.9E–.20 14 4.4b **¶17193773**
IDC III 11 10 35 00.6–1.3 38.15N 142.70E 0 4.7,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=16.8km az=40.8.
IDC Error ellipse: s-maj=37.6km s-min=23.5km az=88.0.
ISC III 11 10 35 37.1–.27 37.05N–.03 141.32E–.04 45–2 5.0b 830 0-161
BJI III 11 10 35 31.3 36.61N 141.30E 16 5.5s,5.4 **¶17193775**
NEIC III 11 10 35 36.7–.45 37.05N 141.20E 38–4 5.2b,5.4
JMA III 11 10 35 36.5–.10 37.07N 141.34E 49–1 5.1,5.4
MOS III 11 10 35 36.3–.87 37.31N 141.15E 40 5.1b,5.4
ISCJB III 11 10 35 36.4–.35 37.04N–.02 141.22E–.03 50–3 5.6s,5.0b
IDC III 11 10 35 37.2–.32 37.07N 141.18E 45–2 4.9,4.7
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=130.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=80.3.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=37.0.
IDC Error ellipse: s-maj=10.6km s-min=7.5km az=110.0.
JMA III 11 10 36 54.4–.10 36.46N 141.10E 41–2 3.9
¶602654146

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 10 38 50.0–2.1 38.40N–.07 142.24E–.06 11–12 4.2b 29 1-76
IDC III 11 10 38 47.8–2.7 38.32N 142.22E 0 4.3,4.2 **¶16476305**
ISCJB III 11 10 38 50.7–1.4 38.40N–.07 142.31E–.06 27–8 4.2b,4.2
JMA III 11 10 38 52.0–.10 38.49N 142.23E 31–2 5.0,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=65.6km s-min=20.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.2km az=151.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 10 39 10.9–1.1 39.2N–.20 142.8E–.20 16 4.5b 14 5-149
IDC III 11 10 39 08.3–1.4 39.21N 142.82E 0 4.7L,4.6 **¶17193777**
ISCJB III 11 10 39 09.6–.97 39.3N–.20 142.7E–.20 16 4.4b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 10 39 20.9–.70 36.0N–.10 141.87E–.10 23 4.6b 28 3-147
IDC III 11 10 39 18.6–.69 36.21N 141.89E 0 4.6,4.5b **¶16476309**
ISCJB III 11 10 39 19.6–.49 36.03N–.08 141.86E–.08 23 4.5b,4.5b
NEIC III 11 10 39 22.8–.34 35.98N 141.85E 35 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=17.1km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=8.7km az=164.6.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.6km az=162.0. Recorded [2 JMA] in Akita, Fukushima and Miyagi.
JMA III 11 10 41 34.1–.10 36.50N 141.24E 39–2 3.6
¶603049351

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 10 43 32.5–.10 36.23N 140.88E 46–1 4.0
¶602654125

JMA Event type fe.
JMA III 11 10 45 21.0–.10 35.88N 141.39E 30–2 4.9
¶16476165

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 10 45 21.7–.41 35.88N–.05 141.29E–.06 26 5.2b 347 3-152
IDC III 11 10 45 17.5–.60 35.86N 141.32E 0 4.9,4.8 **¶16304952**
NEIC III 11 10 45 19.3–2.4 35.89N 141.39E 12–14 4.9,4.8
ISCJB III 11 10 45 20.4–.16 35.88N–.03 141.25E–.03 26 5.1b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 11 10 46 16.8–.10 36.85N 141.14E 47–1 4.8
¶603049352

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 10 49 44.2–.20 36.55N 141.71E 72–5 4.0
¶602654116

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 10 50 39.6–.30 36.31N 141.94E 31 3.7
¶602654106

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 10 51 52.3–.20 37.17N 141.45E 42–2 3.5
¶602654102

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 10 53 12.1–.30 36.16N 141.33E 33–4 4.0
¶603049353

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 10 54 49.1–1.0 39.7N–.20 142.4E–.30 29 4.3b 9 24-88
IDC III 11 10 54 44.6–1.1 39.71N 142.37E 0 4.4,4.2 **¶17193780**
ISCJB III 11 10 54 47.3–.83 39.6N–.10 142.2E–.30 29 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 10 54 49.2–1.8 36.50N 140.62E 0 4.5,4.2
¶17193783

IDC Error ellipse: s-maj=114.3km s-min=26.7km az=106.0.
JMA III 11 10 55 42.3–.10 36.87N 140.64E 6–2 2.3
¶603049354

ISC III 11 10 56 11.4–1.4 36.66N–.10 141.4E–.10 19 4.5b 8 1-68
ISCJB III 11 10 56 09.2–1.1 36.66N–.08 141.6E–.10 19 4.5b **¶17193786**
IDC III 11 10 56 10.0–5.7 36.30N 142.66E 0 4.7,4.6
JMA III 11 10 56 16.5–.30 36.84N 141.12E 47–2 3.5,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=7.8km az=138.4.
IDC Error ellipse: s-maj=221.3km s-min=24.0km az=63.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 10 58 03.2–.73 39.00N–.04 142.37E–.04 20–3 5.1b 389 1-147
IDC III 11 10 57 60.0–.52 38.94N 142.33E 0 4.8,4.8 **¶602654060**
BJI III 11 10 57 59.3 38.90N 142.53E 20 5.5b,5.4s
MOS III 11 10 58 02.4–.83 39.08N 142.24E 21 5.4b,5.4s
NEIC III 11 10 58 02.8–1.6 39.00N 142.27E 15–10 5.2b,5.4s
JMA III 11 10 58 04.3–.10 39.02N 142.37E 32–1 4.9,5.4s
ISCJB III 11 10 58 04.1–.96 39.00N–.02 142.32E–.03 33–6 5.0s,5.0b
ISC Event type ke.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC III 11 11 00 53.7–.39 37.76N–.03 141.66E–.04 54–3 5.5b 1416 1-160
BJI III 11 11 00 48.6 37.73N 141.83E 42 5.8b,5.5 **¶17193791**
MOS III 11 11 00 50.5–.79 37.92N 141.57E 32 5.7b,5.5
IDC III 11 11 00 51.2–3.6 37.74N 141.59E 33–27 5.4,5.3
NEIC III 11 11 00 52.4–.35 37.74N 141.50E 42–3 5.6b,5.3
JMA III 11 11 00 53.0 37.72N 141.73E 46–2 5.5,5.3
ISCJB III 11 11 00 54.0–.26 37.77N–.02 141.58E–.02 65–2 5.4b,5.3
ISC Event type se.
NEIC Event type fe. Recorded [4 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.
JMA III 11 11 01 55.4 36.75N 140.62E 4–1 3.7
¶602654046

JMA Event type fe.
JMA III 11 11 03 03.3–.30 36.01N 141.26E 25–3 4.4
¶602654453

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 11 06 37.1 36.76N 140.57E 9 2.7
¶603049356

JMA III 11 11 07 27.5–.10 36.62N 140.97E 48–1 4.3
¶17193793

JMA Event type fe.
JMA III 11 11 08 27.6–.10 36.54N 140.82E 14–2 3.5
¶602654427

JMA Event type fe.
ISC III 11 11 10 56.3–.27 35.55N–.03 141.92E–.04 22 5.5b 503 1-153
IDC III 11 11 10 52.6–.42 35.57N 141.96E 0 5.7,5.7s **¶602442251**
JMA III 11 11 10 54.1–.30 35.73N 142.11E 28–5 5.9,5.7s
BJI III 11 11 10 54.0 35.47N 141.63E 14 6.1s,5.9
ISCJB III 11 11 10 54.9–.13 35.55N–.02 141.84E–.02 22 5.9s,5.3b
MOS III 11 11 10 56.1–1.2 35.65N 141.84E 29 5.6b,5.3b
NEIC III 11 11 10 58.3–.11 35.54N 141.84E 35 5.5b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=90.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=152.2.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=110.1.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.5km az=142.0.
ISC III 11 11 13 11.6–.50 36.38N–.03 141.89E–.03 20–2 5.5b 965 1-158
BJI III 11 11 13 08.9 36.15N 141.53E 10 6.1s,5.9 **¶16304958**
JMA III 11 11 13 10.7–.10 36.32N 141.95E 37 5.6,5.9
ISCJB III 11 11 13 11.2–.65 36.33N–.02 141.85E–.02 26–4 6.0s,5.4b
NEIC III 11 11 13 13.0–.98 36.38N 141.78E 26–7 5.5b,5.4b
MOS III 11 11 13 13.7–.96 36.72N 141.69E 33 5.7b,5.4b
IDC III 11 11 13 14.1–2.1 36.35N 141.83E 37–18 5.1,5.0
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=174.4.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=146.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Iwate, Miyagi, Saitama, Tochigi and Yamagata.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=109.2.
IDC Error ellipse: s-maj=10.7km s-min=9.3km az=104.0.
JMA III 11 11 15 16.8–.10 38.91N 142.06E 45–2 4.5
¶602707290

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 11 15 17.9–.30 36.71N 141.76E 23–5 4.2
¶602654045

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 11 16 49.2–.56 36.61N–.04 141.92E–.04 32–3 5.4b 762 1-157
IDC III 11 11 16 44.3–.34 36.66N 141.95E 0 5.1,5.1 **¶17193797**
ISCJB III 11 11 16 44.3–.92 36.65N–.03 142.11E–.03 15–6 6.2s,5.4b
BJI III 11 11 16 46.3 36.40N 142.10E 34 5.9s,5.8b
MOS III 11 11 16 48.3–.98 36.66N 141.80E 33 5.6b,5.8b
JMA III 11 11 16 49.7–.20 36.63N 141.71E 43–3 5.5,5.8b
NEIC III 11 11 16 50.2–.60 36.63N 141.81E 37–5 5.5b,5.8b
ISC Event type se.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.7km az=160.8.
MOS Error ellipse: s-maj=7.8km s-min=5.2km az=103.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=124.0. Recorded [3 JMA] in Fukushima and Tochigi.
JMA III 11 11 19 31.7–.20 36.95N 141.14E 48–2 3.5
¶602654041

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 11 21 02.7–.36 35.72N–.03 141.03E–.04 35–1 5.6b 1044 0-162
BJI III 11 11 20 56.8 35.67N 141.06E 15 5.9s,5.6 **¶602707286**
JMA III 11 11 20 59.9–.20 35.79N 141.20E 39–1 5.6,5.6
MOS III 11 11 21 01.3–.90 35.72N 140.93E 33 5.7b,5.6
ISCJB III 11 11 21 02.4–.33 35.70N–.02 140.93E–.02 42–3 5.9s,5.5b
NEIC III 11 11 21 03.1–.10 35.68N 140.93E 35 5.7b,5.5b
IDC III 11 11 21 03.2–.46 35.65N 141.00E 40–4 5.1,5.0
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=108.5.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=174.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=150.0. Recorded [4 JMA] in Chiba.
IDC Error ellipse: s-maj=9.5km s-min=6.3km az=108.0.
JMA III 11 11 25 58.1–.10 38.44N 142.29E 35–2 5.0
¶602654037

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 11 26 08.6–.10 35.94N 141.14E 26–2 4.4
¶603049359

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 11 28 51.7–.44 38.54N–.05 142.35E–.06 35 5.0b 143 1-152
IDC III 11 11 28 46.2–.62 38.48N 142.22E 0 5.0,4.9 **¶16453094**
MOS III 11 11 28 49.9–1.0 38.51N 142.12E 33 5.4b,4.9
NEIC III 11 11 28 50.8–1.4 38.50N 142.16E 28–9 5.2b,4.9
ISCJB III 11 11 28 50.1–.26 38.48N–.03 142.27E–.04 35 5.0b,4.9
JMA III 11 11 28 52.5–.20 38.70N 142.26E 35–2 5.2,4.9
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=14.0km az=156.0.
MOS Error ellipse: s-maj=10.2km s-min=6.7km az=88.4.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.2km az=24.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 11 30 26.3–.20 36.22N 141.07E 19–4 3.6
¶603049360

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 11 35 34.0–.10 36.45N 141.16E 43–2 4.3
¶603049362

JMA Event type fe.
IDC III 11 11 36 08.2–1.5 35.97N 141.76E 0 4.9,4.8
¶16476342

IDC Error ellipse: s-maj=56.9km s-min=31.4km az=70.0.
ISC III 11 11 36 40.0–.40 39.22N–.02 142.53E–.03 19–1 6.7s,6.5b 2188 2-161
NIED III 11 11 36 00 39.20N 142.60E 38 6.6W,6.5b **¶17193804**
IDC III 11 11 36 36.9–.30 39.25N 142.47E 0 6.8,6.8s
BJI III 11 11 36 36.6 39.00N 142.50E 20 6.9,6.9s
ISCJB III 11 11 36 39.8–.61 39.21N–.01 142.51E–.01 30–4 6.7s,6.4b
JMA III 11 11 36 39.9–.10 39.23N 142.58E 24–1 6.7,6.4b
NEIC III 11 11 36 40.9–.68 39.24N 142.46E 26–4 6.6s,6.5b
MOS III 11 11 36 41.0–.92 39.38N 142.46E 33 6.8b,6.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ33.00000°,λ5.00000°. NP2:ϕ_s54.00000°,δ87.00000°,λ123.00000°. $M_0$8.33000×10^{18}

IDC Error ellipse: s-maj=11.1km s-min=8.6km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=142.0. Felt at Kashiwa, Misawa, Tokyo, Urayasu and Yokohama. Recorded [5L JMA] in Iwate.
MOS Error ellipse: s-maj=5.2km s-min=3.4km az=103.5.
JMA III 11 11 39 27.5–.20 38.33N 142.25E 25–3 5.8
¶602654028

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 11 39 37.0–.30 36.22N 141.40E 53 4.7
¶602654027

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 11 42 09.8–.53 39.35N–.06 142.87E–.08 18 4.9b 46 3-88
IDC III 11 11 42 06.6–.56 39.29N 142.85E 0 5.0,4.9 **¶16476345**
ISCJB III 11 11 42 07.7–.37 39.32N–.04 142.88E–.07 18 4.9b,4.9
NEIC III 11 11 42 08.3–.29 39.32N 142.91E 10 4.9b,4.9
JMA III 11 11 42 09.5–.20 39.35N 142.82E 16–3 5.7,4.9
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.3km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.7km az=18.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.9km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 11 44 19.8–.40 35.92N 141.10E 19 3.1
¶603049363

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 11 46 43.5–.55 36.07N–.03 141.10E–.04 24–3 5.5b 271 0-155
IDC III 11 11 46 39.7–.41 36.04N 141.17E 0 5.1,5.0 **¶16304963**
NEIC III 11 11 46 42.5–1.4 36.00N 141.17E 18–8 5.8b,5.0
MOS III 11 11 46 42.0–1.0 36.04N 141.13E 24 5.9b,5.0
ISCJB III 11 11 46 42.8–.61 36.05N–.02 141.17E–.04 31–4 6.0s,5.4b
BJI III 11 11 46 43.0 35.87N 141.12E 38 6.1,6.1s
JMA III 11 11 46 43.3–.10 36.06N 141.18E 41–2 5.4,6.1s
ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=10.2km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=112.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=9.1km s-min=5.1km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 11 48 21.1 36.66N 141.00E 43–1 3.6
¶602654010

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 11 49 29.9–.10 36.70N 140.66E 44–1 3.3
¶603049364

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 11 49 56.6–.10 36.61N 140.99E 41–1 3.6
¶602654006

JMA Event type fe.
JMA III 11 11 51 04.3–.10 38.56N 141.85E 45–2 4.1
¶602654001

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 11 51 09.3–.10 36.06N 141.37E 49–2 4.2
¶16461321

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 11 53 26.3–.47 39.14N–.07 142.61E–.06 27 4.6b 67 2-149
IDC III 11 11 53 22.2–.51 39.14N 142.64E 0 4.6,4.6b **¶602653990**
NEIC III 11 11 53 23.7–1.8 39.15N 142.66E 10–11 4.7b,4.6b
ISCJB III 11 11 53 24.2–.33 39.12N–.04 142.64E–.06 27 4.6b,4.6b
JMA III 11 11 53 25.9–.10 39.20N 142.63E 21–2 4.9,4.6b
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=11.3km az=135.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=27.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 11 53 35.5–.10 36.86N 141.14E 48–1 4.3
¶603049365

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 11 55 12.5–.20 38.53N 141.94E 39–3 3.9
¶603049367

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 11 56 13.2–.37 36.28N–.04 141.62E–.04 27–1 5.3b 664 1-155
MOS III 11 11 56 11.3–.92 36.27N 141.53E 22 5.6b **¶602707295**
BJI III 11 11 56 12.7 36.17N 141.72E 41 5.8s,5.7
ISCJB III 11 11 56 12.1–.84 36.21N–.03 141.60E–.02 28–5 5.9s,5.2b
NEIC III 11 11 56 13.2–1.1 36.27N 141.53E 23–7 5.5b,5.2b
JMA III 11 11 56 13.1–.10 36.28N 141.68E 40–4 5.3,5.2b
IDC III 11 11 56 14.2–.47 36.20N 141.60E 34–2 4.9,4.8
ISC Event type ke.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=112.9.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=179.6.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.9km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.0km s-min=9.4km az=130.0.
ISC III 11 11 57 14.2–.41 39.18N–.04 142.25E–.04 32–2 5.3b 379 1-159
MOS III 11 11 57 13.3–.80 39.30N 142.12E 33 5.5b **¶17193815**
JMA III 11 11 57 14.1–.10 39.27N 142.31E 29–1 5.3
ISCJB III 11 11 57 14.5–.52 39.23N–.03 142.09E–.04 43–4 5.2b
IDC III 11 11 57 14.9–2.5 39.21N 142.22E 38–21 5.1,5.0
NEIC III 11 11 57 16.1–.48 39.20N 142.09E 44–4 5.3b,5.0
ISC Event type se.
MOS Error ellipse: s-maj=9.4km s-min=6.3km az=77.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=27.4.
IDC Error ellipse: s-maj=12.0km s-min=10.4km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=135.0. Recorded [4 JMA] in Iwate.
JMA III 11 12 00 36.8–.10 36.77N 141.11E 43–1 4.2
¶603049368

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 12 01 42.5–1.1 39.1N–.10 143.0E–.10 16 4.7b 19 2-78
ISCJB III 11 12 01 38.4–.93 39.17N–.08 143.3E–.20 10 4.7b **¶17193817**
IDC III 11 12 01 39.5–1.6 39.24N 143.19E 0 4.7,4.7b
NEIC III 11 12 01 44.4–.78 39.14N 143.21E 35 4.9b,4.7b
JMA III 11 12 01 45.5–.10 39.21N 142.58E 24–2 5.1,4.7b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=18.3km s-min=11.5km az=15.5.
IDC Error ellipse: s-maj=39.3km s-min=24.5km az=98.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.5km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 12 03 59.5–.20 36.09N 141.38E 44–4 3.6
¶603049369

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 12 04 27.5–.10 38.38N 141.72E 49–1 3.7
¶602653980

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 12 06 53.3–.10 36.23N 140.77E 37–1 3.6
¶602653974

JMA Event type fe.
JMA III 11 12 07 22.8–.20 38.60N 141.95E 37–2 3.6
¶603049370

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 12 10 10.1–.20 38.34N 142.07E 30–3 3.8
¶603049371

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 12 12 16.1–.20 38.39N 142.02E 32–3 3.8
¶603049372

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 12 12 53.4–.38 38.06N–.03 142.61E–.03 28–2 5.9b 1453 1-156
ISCJB III 11 12 12 49.4–.90 38.08N–.02 142.58E–.02 10–5 5.9s,5.8b **¶17193828**
BJI III 11 12 12 49.0 38.10N 142.50E 12 6.1b,6.1s
MOS III 11 12 12 51.8–.92 38.15N 142.56E 24 6.0b,5.8s
IDC III 11 12 12 52.3–5.5 38.02N 142.63E 20–34 5.7s,5.7
NEIC III 11 12 12 54.8–.07 38.06N 142.55E 35 5.9b,5.7
NIED III 11 12 13 00 37.10N 142.20E 41 5.9W,5.7
JMA III 11 12 13 03.0–.30 37.23N 142.22E 26 6.2,5.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=150.2.
MOS Error ellipse: s-maj=5.4km s-min=3.5km az=105.3.
IDC Error ellipse: s-maj=10.1km s-min=7.2km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=141.0. Recorded [4 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ32.00000°,λ177.00000°. NP2:ϕ_s328.00000°,δ88.00000°,λ58.00000°. $M_0$7.95000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 12 15 43.1–.49 39.08N–.03 142.27E–.05 32–3 5.7b 304 1-159
MOS III 11 12 15 41.8–.75 39.12N 142.28E 33 6.1b **¶17193830**
JMA III 11 12 15 42.0–.10 39.13N 142.41E 23–1 5.9
ISCJB III 11 12 15 43.5–.55 39.08N–.02 142.35E–.05 51–4 5.5b
IDC III 11 12 15 43.4–.52 39.09N 142.29E 32–3 5.4,5.2
NEIC III 11 12 15 45.3–.58 39.08N 142.26E 50–5 5.8b,5.2
ISC Event type se.
MOS Error ellipse: s-maj=11.0km s-min=6.2km az=126.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.2km az=5.8.
IDC Error ellipse: s-maj=10.0km s-min=8.1km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.6km az=94.0. Recorded [4 JMA] in Iwate and Miyagi.
ISC III 11 12 21 17.4–2.1 37.37N–.05 141.44E–.07 8–11 4.6b 40 0-82
IDC III 11 12 21 11.8–.85 37.23N 142.48E 0 4.6,4.5 **¶17193835**
NEIC III 11 12 21 17.1–.66 37.22N 142.39E 35 4.9b,4.5
ISCJB III 11 12 21 18.7–1.0 37.34N–.03 141.58E–.06 30–6 4.5b,4.5
JMA III 11 12 21 21.8–.10 37.48N 141.30E 23–2 4.9,4.5
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=19.0km az=106.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=12.2km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=16.3.
JMA Event type fe.
ISC III 11 12 22 14.1–.68 39.20N–.09 142.5E–.10 27 4.7b 38 2-129
ISCJB III 11 12 22 12.1–.57 39.13N–.06 142.63E–.10 27 4.5b **¶17193837**
IDC III 11 12 22 15.2–.61 39.18N 142.54E 32–4 4.5,4.4
NEIC III 11 12 22 17.4–1.0 39.29N 142.67E 53–8 4.6b,4.4
JMA III 11 12 22 37.0–.40 37.43N 142.02E 26 4.3,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=35.9.
IDC Error ellipse: s-maj=18.4km s-min=14.6km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=7.5km az=121.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 12 24 36.2–.62 36.45N–.03 141.84E–.04 25–4 5.3b 792 1-151
IDC III 11 12 24 32.3–.40 36.49N 141.82E 0 5.0L,4.8 **¶17193839**
BJI III 11 12 24 34.8 36.35N 141.62E 28 5.4s,5.3
JMA III 11 12 24 35.2–.20 36.46N 141.87E 23 5.2,5.3
NEIC III 11 12 24 35.1–1.6 36.48N 141.75E 15–9 5.3b,5.3
MOS III 11 12 24 35.2–1.4 36.45N 141.78E 28 5.4b,5.3
ISCJB III 11 12 24 37.0–.39 36.42N–.02 141.78E–.02 42–3 5.3s,5.2b
ISC Event type se.
JMA Event type fe.
NEIC Event type se.
ISCJB Event type fe.
ISC III 11 12 28 44.1–.43 36.19N–.03 141.80E–.04 30–2 5.1b 428 1-148
IDC III 11 12 28 39.6–.44 36.25N 141.86E 0 4.8,4.7 **¶17193843**
JMA III 11 12 28 41.6–.20 36.20N 141.86E 23 5.1,4.7
BJI III 11 12 28 42.6 35.95N 141.46E 26 5.4s,5.2
ISCJB III 11 12 28 44.7–.43 36.16N–.02 141.71E–.03 44–3 5.2s,5.0b
MOS III 11 12 28 45.7–.78 36.76N 141.69E 31 5.4b,5.0b
NEIC III 11 12 28 45.9–.62 36.19N 141.71E 40–5 5.2b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.8km az=119.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.6km az=16.9.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=115.5.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.1km az=153.0.
ISC III 11 12 33 14.9–.88 38.06N–.04 142.82E–.04 26–6 5.0b 304 2-151
JMA III 11 12 33 10.9–.30 38.07N 142.76E 10 5.1 **¶17193850**
IDC III 11 12 33 10.1–.49 38.08N 142.99E 0 4.7,4.6
BJI III 11 12 33 13.6 38.08N 142.88E 26 5.5,5.5s
MOS III 11 12 33 14.4–.97 38.21N 142.77E 30 5.2b,5.5s
ISCJB III 11 12 33 14.2–1.0 38.06N–.03 142.76E–.03 30–7 5.2s,5.0b
NEIC III 11 12 33 18.2–.61 38.06N 142.70E 51–5 5.4b,5.0b
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=113.0.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=109.2.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=136.0. Recorded [3 JMA] in Miyagi.
JMA III 11 12 33 46.8–.10 35.91N 141.08E 22–1 3.5
¶603049376

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 12 34 52.0 36.78N 140.58E 5–1 3.4
¶603049377

JMA Event type fe.
JMA III 11 12 35 36.6 36.79N 140.58E 5–1 4.1
¶603049378

JMA Event type fe.
JMA III 11 12 36 37.8–.10 36.36N 140.98E 37–2 3.9
¶603049379

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 12 40 18.0–.10 38.37N 141.80E 48–2 4.4
¶603049380

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 12 43 12.6–1.6 36.8N–.20 141.9E–.20 15 4.0b 5 1-75
IDC III 11 12 43 08.0–1.1 37.08N 142.88E 0 4.2,4.0 **¶602653947**
JMA III 11 12 43 14.1–.40 36.07N 141.63E 27 3.6,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=41.1km s-min=22.7km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 11 12 46 22.9–.69 36.75N–.08 141.77E–.06 19 4.1b 22 1-83
IDC III 11 12 46 20.7–2.6 36.76N 141.79E 0 4.1,4.0b **¶17193859**
JMA III 11 12 46 21.9–.30 36.28N 141.80E 66 3.5,4.0b
ISCJB III 11 12 46 21.1–.57 36.75N–.06 141.80E–.08 19 4.2b,4.0b
NEIC III 11 12 46 25.1–.63 36.78N 141.74E 35 4.1b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=67.2km s-min=29.6km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=6.8km az=42.2.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.4km az=124.0.
ISC III 11 12 49 02.1–.23 36.17N–.03 141.67E–.03 34–0 5.6b,5.5s 1555 1-158
BJI III 11 12 48 59.7 36.11N 141.45E 21 5.8b,5.5s **¶16476167**
JMA III 11 12 49 00.1–.20 36.24N 141.76E 35–5 5.3,5.5s
ISCJB III 11 12 49 01.3–.39 36.14N–.02 141.62E–.02 38–3 5.6b,5.4s
MOS III 11 12 49 01.9–.93 36.22N 141.61E 41 5.8b,5.4s
IDC III 11 12 49 02.3–.34 36.16N 141.67E 32–2 5.3,5.2
NEIC III 11 12 49 02.6–.07 36.15N 141.60E 35 5.6b,5.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=136.6.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=116.5.
IDC Error ellipse: s-maj=9.7km s-min=8.4km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=145.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.
JMA III 11 12 51 45.8–.10 36.34N 140.83E 35–1 3.9
¶603049383

JMA Event type fe.
JMA III 11 12 52 19.0–.10 36.21N 140.90E 45–1 3.9
¶16461328

JMA Event type fe.
ISC III 11 12 52 22.5–1.1 38.2N–.20 142.3E–.20 14 4.5b 9 10-89
ISCJB III 11 12 52 20.4–.97 38.1N–.10 142.4E–.20 14 4.5b **¶603145344**
IDC III 11 12 52 20.3–1.0 38.17N 142.25E 0 4.7,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=19.3km az=29.4.
IDC Error ellipse: s-maj=28.6km s-min=24.5km az=105.0.
JMA III 11 12 54 11.2–.10 36.46N 140.93E 32–1 4.1
¶603049384

JMA Event type fe.
ISC III 11 12 54 52.1–.33 38.53N–.04 142.16E–.04 44–2 5.4b,5.4s 1287 1-160
BJI III 11 12 54 47.0 38.42N 142.37E 36 5.6b,5.4s **¶17193865**
MOS III 11 12 54 50.2–.90 38.61N 142.01E 34 5.6b,5.4s
JMA III 11 12 54 51.3–.10 38.50N 142.15E 39–2 5.1,5.4s
ISCJB III 11 12 54 51.6–.38 38.51N–.02 142.03E–.02 49–3 5.5s,5.4b
NEIC III 11 12 54 53.2–.38 38.50N 141.98E 51–3 5.4b,5.4b
IDC III 11 12 54 53.5–1.8 38.49N 142.06E 54–15 5.2,5.0
ISC Event type se.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=100.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=155.5.
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.0km az=137.0.
IDC Error ellipse: s-maj=10.9km s-min=9.1km az=109.0.
JMA III 11 12 58 41.3–.20 38.35N 142.07E 37–4 4.0
¶602653901

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 12 59 03.4–.10 35.82N 140.93E 29–1 3.9
¶602653897

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 12 59 19.1–.51 36.13N–.04 141.80E–.04 16–2 5.2b 482 1-154
JMA III 11 12 59 18.9–.20 36.15N 141.91E 35 5.3 **¶602653895**
BJI III 11 12 59 18.6 35.92N 141.59E 23 5.8b,5.5s
ISCJB III 11 12 59 19.7–.15 36.10N–.03 141.72E–.02 28 5.2b,5.5s
IDC III 11 12 59 20.5–.65 36.12N 141.86E 27–4 5.0,4.9
MOS III 11 12 59 21.8–.89 36.63N 141.74E 29 5.5b,4.9
NEIC III 11 12 59 22.3–.14 36.15N 141.69E 35 5.2b,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=169.2.
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=136.0.
MOS Error ellipse: s-maj=7.3km s-min=4.7km az=112.4.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=159.0.
JMA III 11 13 02 06.7–.10 36.69N 140.99E 43–1 3.0
¶603049385
ISC III 11 13 05 15.0–.85 36.40N–.06 141.43E–.07 26 4.2b 18 1-75
IDC III 11 13 05 06.1–.81 35.42N 141.53E 0 4.4,4.2 **¶17193869**
JMA III 11 13 05 13.4–.30 36.40N 141.63E 28 4.2,4.2
ISCJB III 11 13 05 13.5–.69 36.41N–.05 141.61E–.06 26 4.2b,4.2
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 11 13 06 03.1–.30 38.98N 142.37E 33–4 4.0
¶602653877

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 11 13 08 12.5–.51 39.12N–.05 142.65E–.06 25–3 4.5b 76 2-88
ISCJB III 11 13 08 11.1–.37 39.09N–.03 142.74E–.05 30 4.5b **¶602653872**
JMA III 11 13 08 12.7–.10 39.18N 142.57E 26–2 4.8
IDC III 11 13 08 13.3–.46 39.10N 142.54E 30–3 4.5,4.5
NEIC III 11 13 08 14.1–.91 39.17N 142.60E 36–8 4.7b,4.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.8km az=41.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=5.5km az=110.0. Recorded [2 JMA] in Aomori, Iwate and Miyagi.
ISC III 11 13 09 44.7–1.8 36.63N–.09 141.0E–.10 41–11 4.4b 23 0-74
IDC III 11 13 09 25.4–4.1 34.52N 141.54E 0 4.6L,4.5 **¶603049386**
ISCJB III 11 13 09 43.9–1.2 36.63N–.07 141.0E–.10 51–6 4.2b,4.5
JMA III 11 13 09 44.8–.10 36.63N 140.99E 46–1 4.1,4.5
ISC Event type fe.
IDC Error ellipse: s-maj=96.9km s-min=31.6km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=7.5km az=36.2.
JMA Event type fe.
ISC III 11 13 12 40.0–1.0 40.0N–.20 142.5E–.20 31 4.1b 11 27-75
IDC III 11 13 12 35.3–.85 40.03N 142.52E 0 4.3,4.1 **¶16476409**
ISCJB III 11 13 12 37.8–.79 40.0N–.10 142.5E–.20 31 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
JMA III 11 13 13 03.0–.10 37.28N 141.79E 37–3 3.8
¶603049387

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 13 14 09.6–.30 38.19N 142.64E 7 4.8
¶602653850

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 11 13 14 18.9–.30 35.90N 140.91E 22–4 2.7
¶603049388

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 13 15 14.9–.40 36.27N 140.89E 51–3 2.9
¶16449451

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 11 13 15 44.1–.81 37.35N–.05 141.96E–.04 30–5 5.2b 704 1-146
IDC III 11 13 15 39.2–.51 37.21N 141.97E 0 5.0,5.0b **¶16310118**
BJI III 11 13 15 40.3 37.13N 142.20E 32 5.6b,5.5s
JMA III 11 13 15 43.3–.20 37.31N 141.93E 26–3 5.2,5.5s
ISCJB III 11 13 15 43.9–.52 37.35N–.03 141.95E–.03 37–4 5.1b,4.9s
MOS III 11 13 15 44.1–.88 37.61N 141.95E 30 5.5b,4.9s
NEIC III 11 13 15 47.0–.77 37.38N 141.88E 53–7 5.1b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=10.9km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.4km az=171.1.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=110.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.4km az=167.0.
ISC III 11 13 16 48.7–.50 36.40N–.03 141.84E–.03 30–3 5.9s,5.7b 1140 1-161
NIED III 11 13 16 00 36.40N 141.90E 17 5.7W,5.7b **¶16304982**
IDC III 11 13 16 44.4–.30 36.41N 141.86E 0 5.4s,5.4
BJI III 11 13 16 47.2 36.22N 141.57E 25 6.0b,5.9s
ISCJB III 11 13 16 47.9–.07 36.34N–.02 141.84E–.01 33 5.9s,5.7b
MOS III 11 13 16 47.9–1.0 36.39N 141.90E 38 6.0s,5.9b
JMA III 11 13 16 48.6–.20 36.43N 141.84E 28 5.7,5.9b
NEIC III 11 13 16 51.5–.71 36.37N 141.74E 58–6 5.6b,5.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ12.00000°,λ-170.00000°. NP2:ϕ_s191.00000°,δ88.00000°,λ-78.00000°. $M_0$3.80000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=162.0.
MOS Error ellipse: s-maj=6.6km s-min=3.9km az=116.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=122.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.
ISC III 11 13 20 57.6–.74 36.41N–.09 141.92E–.07 19 4.5b 16 1-147
IDC III 11 13 20 54.7–.72 36.33N 142.12E 0 4.7,4.5b **¶16449453**
ISCJB III 11 13 20 56.1–.61 36.44N–.07 142.03E–.07 19 4.4b,4.5b
JMA III 11 13 20 58.9–.30 36.47N 141.86E 63 4.4,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=19.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.8km az=158.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC III 11 13 22 07.7–.61 36.38N–.06 141.94E–.06 19 4.4b 38 1-147
ISCJB III 11 13 22 05.6–.49 36.35N–.05 141.99E–.06 19 4.4b **¶17193878**
NEIC III 11 13 22 05.8–4.6 36.37N 141.89E 7–28 4.5b
IDC III 11 13 22 05.2–.68 36.41N 141.84E 0 4.6,4.4
JMA III 11 13 22 09.4–.20 36.47N 141.78E 80 4.4,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.7km az=148.6.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.7km az=98.0.
IDC Error ellipse: s-maj=19.5km s-min=18.3km az=67.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 13 23 40.5–.48 37.39N–.04 141.47E–.05 26–3 4.5b 74 0-146
ISCJB III 11 13 23 38.2–.83 37.38N–.03 141.58E–.05 24–5 4.4b **¶16449457**
NEIC III 11 13 23 40.8–.52 37.42N 141.48E 27–3 4.0b
JMA III 11 13 23 40.4–.10 37.40N 141.46E 30–2 4.5
IDC III 11 13 23 41.1–.43 37.39N 141.44E 26–2 4.4,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=25.8.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.8km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=11.1km az=87.0.
JMA III 11 13 25 04.2–.40 36.51N 141.92E 52 3.8
¶603049390

JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
JMA III 11 13 26 42.2–.30 35.85N 140.91E 36–3 3.3
¶603049391

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 13 29 09.5–.10 37.10N 141.12E 51–1 3.8
¶603049392

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 13 29 29.0 36.42N 141.05E 37–1 3.4
¶602653832

JMA Event type fe.
JMA III 11 13 29 42.0–.10 36.01N 141.08E 30–2 4.1
¶17193880

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 13 31 50.1–2.0 36.44N–.04 141.94E–.07 4–11 4.5b 50 1-68
IDC III 11 13 31 45.7–10.0 36.85N 142.56E 0 4.5,4.4b **¶602653278**
ISCJB III 11 13 31 50.2–.62 36.38N–.03 142.02E–.05 10 4.4b,4.4b
JMA III 11 13 31 54.6–.20 36.45N 141.86E 46 4.6,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=235.4km s-min=28.9km az=30.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.8km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 13 31 53.0–.35 39.24N–.05 142.85E–.05 16 4.9b 220 3-149
BJI III 11 13 31 48.6 39.13N 143.39E 25 5.6b,5.4s **¶16476418**
ISCJB III 11 13 31 51.7–.22 39.29N–.03 142.79E–.04 16 4.9s,4.8b
MOS III 11 13 31 54.7–1.1 39.52N 142.83E 33 5.1b,4.8b
IDC III 11 13 31 55.0–.47 39.21N 142.94E 31–2 4.7,4.7s
NEIC III 11 13 31 55.5–.24 39.21N 142.80E 35 5.1b,4.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.6km az=144.5.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=89.5.
IDC Error ellipse: s-maj=11.8km s-min=10.7km az=130.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.9km az=140.0.
ISC III 11 13 33 21.9–1.2 38.2N–.30 141.6E–.20 35 4.3b 13 3-82
ISCJB III 11 13 33 20.9–.96 38.4N–.20 141.5E–.30 35 4.4b **¶16449463**
IDC III 11 13 33 22.5–1.7 38.33N 141.63E 35–6 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.6km s-min=11.2km az=140.6.
IDC Error ellipse: s-maj=50.7km s-min=22.0km az=161.0.
JMA III 11 13 33 30.9–.10 37.26N 141.09E 34–1 4.5
¶603049394

JMA Event type fe.
ISC III 11 13 33 36.1–.60 36.31N–.10 141.66E–.07 26 4.4b 33 3-147
ISCJB III 11 13 33 33.5–.61 36.19N–.10 141.74E–.07 26 4.3b **¶602653272**
NEIC III 11 13 33 34.8–3.5 36.18N 141.73E 23–24 4.3b
IDC III 11 13 33 37.6–.76 36.27N 141.72E 39–4 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=8.5km az=171.3.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=10.3km az=143.0.
IDC Error ellipse: s-maj=20.2km s-min=16.5km az=175.0.
ISC III 11 13 34 34.7–.75 36.26N–.03 141.87E–.04 31–4 5.5b 609 1-152
NEIC III 11 13 34 30.6–2.4 36.16N 141.84E 5–15 5.5b **¶17193882**
MOS III 11 13 34 32.5–1.1 36.26N 141.88E 27 5.7b,5.6s
JMA III 11 13 34 32.9–.30 36.29N 141.93E 23 5.6,5.6s
BJI III 11 13 34 33.2 36.22N 141.52E 20 5.8b,5.7s
ISCJB III 11 13 34 33.3–.92 36.25N–.02 141.87E–.02 30–6 5.6s,5.4b
IDC III 11 13 34 35.3–3.5 36.25N 141.90E 33–26 5.2,5.2s
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=124.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=116.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.0km az=42.5.
IDC Error ellipse: s-maj=11.8km s-min=8.7km az=93.0.
JMA III 11 13 35 37.0–.10 36.91N 141.06E 49–1 4.2
¶603049395

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 13 36 23.2–.10 36.93N 141.11E 48–1 3.8
¶602653270

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 13 36 56.5–.10 36.83N 141.03E 31–1 4.6
¶602653266

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 13 38 39.9–1.5 37.71N–.08 141.8E–.10 24 4.3b 16 1-74
IDC III 11 13 38 33.1–14 37.04N 141.73E 0 4.5,4.5 **¶602653263**
JMA III 11 13 38 42.2–.20 37.69N 141.69E 38–4 4.2,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=390.5km s-min=83.9km az=178.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 13 40 01.7–.30 36.13N 141.16E 32–5 3.6
¶602653262

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 13 40 47.9–1.5 36.3N–.10 141.9E–.10 19 4.1b 9 1-75
IDC III 11 13 40 45.1–3.2 36.35N 141.97E 0 4.2,4.1b **¶17193887**
ISCJB III 11 13 40 47.1–1.4 36.49N–.10 141.9E–.20 19 4.0b,4.1b
JMA III 11 13 40 47.8–.20 36.40N 141.73E 84 3.5,4.1b
ISC Event type ke.
IDC Error ellipse: s-maj=92.0km s-min=30.5km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=9.4km az=32.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC III 11 13 41 41.5–1.2 37.70N 141.93E 0 4.1,3.9
¶17193888

IDC Error ellipse: s-maj=45.0km s-min=26.6km az=92.0.
JMA III 11 13 46 49.4–.10 37.44N 141.47E 26–2 4.1
¶602653254

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 13 47 40.8–.94 36.91N–.03 141.21E–.06 46–8 4.7b 103 0-151
IDC III 11 13 47 34.3–.63 36.93N 141.05E 0 5.3L,4.8 **¶602653249**
ISCJB III 11 13 47 39.8–.49 36.89N–.02 141.24E–.05 54–3 4.7b,4.8
JMA III 11 13 47 41.3–.10 36.93N 141.11E 50–1 4.7,4.8
NEIC III 11 13 47 42.8–.80 36.87N 141.15E 66–7 5.0b,4.8
ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=15.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=3.8km az=6.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.7km az=66.0.
ISC III 11 13 48 26.6–.78 36.7N–.10 142.00E–.06 19 5.0b 33 1-92
IDC III 11 13 48 22.4–2.2 36.56N 142.26E 0 4.7,4.6 **¶16476428**
ISCJB III 11 13 48 29.0–.60 36.9N–.10 141.81E–.07 33 4.9b,4.6
JMA III 11 13 48 28.1–.50 36.41N 141.88E 55 4.7,4.6

NEIC III 11 13 48 29.4–.57 36.64N 141.88E 35 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=60.1km s-min=23.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=6.5km az=164.6.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=10.6km az=175.0.
JMA III 11 13 51 48.3–.10 36.41N 141.04E 44–1 4.1
¶602653241
JMA Event type fe.
ISC III 11 13 52 09.4–.80 36.68N–.04 141.87E–.05 24–5 4.5b 82 1-147
ISCJB III 11 13 52 08.8–.69 36.63N–.03 141.95E–.05 36–6 4.5b **¶600539622**
IDC III 11 13 52 09.8–.80 36.66N 141.84E 26–5 4.5,4.5
JMA III 11 13 52 10.5–.20 36.67N 141.83E 45 4.9,4.5
NEIC III 11 13 52 10.2–1.8 36.66N 141.89E 31–12 4.5b,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=13.6.
IDC Error ellipse: s-maj=15.7km s-min=13.4km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.7km az=137.0.
ISC III 11 13 53 35.0–2.5 36.43N–.04 141.98E–.07 4–15 4.3b 33 1-90
IDC III 11 13 53 34.2–.81 36.38N 142.06E 0 4.7L,4.4 **¶16449466**
JMA III 11 13 53 39.1–.20 36.40N 141.82E 58–4 4.5,4.4
NEIC III 11 13 53 39.5–.47 36.38N 141.97E 35 4.2b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=19.7km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.3km az=116.0.
JMA III 11 13 55 10.5 36.98N 140.60E 17–1 2.9
¶603049398
ISC III 11 13 56 03.5–1.8 37.61N–.06 142.0E–.10 43–15 5.3b 71 1-160
IDC III 11 13 55 54.9–.48 37.21N 142.15E 0 5.3,5.2 **¶17193896**
ISCJB III 11 13 55 59.3–1.0 37.34N–.05 142.20E–.07 36–8 5.2b,5.2
NEIC III 11 13 56 01.6–.96 37.22N 142.14E 48–9 5.1b,5.2
JMA III 11 13 56 05.6–.20 37.67N 141.72E 46–3 5.3,5.2
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=12.5km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.5km az=30.2.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.9km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 13 58 47.2–.75 36.66N–.03 141.80E–.04 18–3 5.0b 209 1-151
ISCJB III 11 13 58 47.7–.19 36.61N–.03 141.89E–.02 33 4.9b **¶16304990**
JMA III 11 13 58 48.6–.10 36.69N 141.84E 36–3 5.1
MOS III 11 13 58 49.6–1.0 36.97N 141.80E 33 5.3b
NEIC III 11 13 58 50.2–.74 36.64N 141.76E 42–6 4.9b
IDC III 11 13 58 50.5–2.2 36.62N 141.75E 41–20 4.7,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=178.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=10.0km s-min=7.4km az=115.8.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.8km az=136.0.
IDC Error ellipse: s-maj=15.0km s-min=11.0km az=94.0.
ISC III 11 14 00 36.8–.34 36.16N–.03 140.98E–.03 35–1 5.5b,5.4s 784 0-162
BJI III 11 14 00 33.0 36.00N 141.23E 37 5.8b,5.4s **¶16304991**
MOS III 11 14 00 34.5–1.0 36.17N 140.90E 26 5.8b,5.3s
JMA III 11 14 00 37.2 36.15N 140.88E 43–1 5.4,5.3s
ISCJB III 11 14 00 37.0–.29 36.13N–.02 140.90E–.02 48–2 5.4s,5.4b
NEIC III 11 14 00 38.6–.50 36.12N 140.76E 51–4 5.5b,5.4s
IDC III 11 14 00 38.2–.44 36.11N 140.86E 42–3 5.1,5.0
ISC Event type se.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=107.6.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=41.9.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=141.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=9.7km s-min=7.0km az=105.0.
JMA III 11 14 03 16.0–.10 36.42N 141.05E 38–1 3.8
¶602653232
JMA Event type fe.
ISC III 11 14 04 48.5–1.8 36.87N–.05 141.94E–.05 15–11 4.4b 48 1-90
IDC III 11 14 04 46.0–.63 36.79N 142.21E 0 4.5,4.4 **¶16449467**
NEIC III 11 14 04 47.4–.43 36.80N 142.21E 10 4.2b,4.4
ISCJB III 11 14 04 48.2–1.8 36.84N–.04 142.08E–.05 27–13 4.3b,4.4
JMA III 11 14 04 52.1–.30 36.99N 141.75E 40–3 4.4,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=12.9km az=137.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.4km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.5km az=32.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 14 05 35.6–.63 36.36N–.06 141.67E–.06 26 4.2b 25 1-147
IDC III 11 14 05 31.3–.62 36.23N 141.63E 0 4.4,4.2 **¶17193901**
ISCJB III 11 14 05 33.9–.53 36.33N–.05 141.80E–.05 26 4.1b,4.2
JMA III 11 14 05 37.2–.10 36.37N 141.64E 56–4 4.2,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=16.9km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.4km az=24.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 14 07 08.7–.20 36.64N 141.30E 42–3 3.6
¶602653229
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 14 07 37.9–.58 39.20N–.07 142.41E–.07 27 4.2b 38 2-149
IDC III 11 14 07 34.0–.70 39.21N 142.47E 0 4.3,4.2 **¶16449468**
ISCJB III 11 14 07 35.9–.43 39.16N–.05 142.39E–.09 27 4.2b,4.2
NEIC III 11 14 07 36.8–3.3 39.17N 142.38E 19–20 4.2b,4.2
JMA III 11 14 07 39.9–.10 39.24N 142.39E 29–1 4.4,4.2
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=17.7km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.0km az=19.7.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.8km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 14 08 41.7–.10 36.66N 140.98E 44–1 3.4
¶603049402
JMA Event type fe.
ISC III 11 14 11 43.2–.70 36.51N–.09 141.87E–.10 19 4.8b 20 3-151
IDC III 11 14 11 40.1–.80 36.46N 141.85E 0 5.0,4.7b **¶16449470**
ISCJB III 11 14 11 41.6–.69 36.57N–.08 141.8E–.10 19 4.7b,4.3s
NEIC III 11 14 11 44.0–2.4 36.52N 141.85E 24–17 4.7b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=24.0km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=9.8km az=29.2.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.4km az=119.0.
JMA III 11 14 13 04.6–.20 38.36N 142.07E 32 4.3
¶603049403
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 14 14 55.6–.94 36.93N–.04 140.94E–.06 10 4.2b 18 0-147
JMA III 11 14 14 53.1–.10 36.89N 141.05E 49–1 4.1 **¶17193904**
ISCJB III 11 14 14 55.2–.72 36.94N–.04 140.95E–.06 10 4.1b
IDC III 11 14 14 55.2–1.4 36.28N 141.93E 0 4.4,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=22.2.
IDC Error ellipse: s-maj=52.9km s-min=20.7km az=167.0.
ISC III 11 14 15 50.4–1.3 35.9N–.30 141.7E–.10 35 4.0b 11 1-147
IDC III 11 14 15 47.4–1.6 36.41N 141.78E 0 4.2,4.0 **¶17193907**
JMA III 11 14 15 48.8–.30 36.03N 141.71E 33 4.1,4.0
ISCJB III 11 14 15 49.9–.93 36.1N–.20 141.6E–.20 35 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
JMA III 11 14 18 52.9–.10 36.65N 140.98E 44–1 3.1
¶603049404
JMA Event type fe.
ISC III 11 14 19 06.7–.37 36.25N–.03 141.68E–.05 26 4.6b 177 1-147
IDC III 11 14 19 03.1–.45 36.23N 141.70E 0 4.5,4.4 **¶602653210**
NEIC III 11 14 19 04.1–2.5 36.21N 141.69E 9–15 4.8b,4.4
ISCJB III 11 14 19 05.0–.20 36.19N–.03 141.78E–.03 26 4.6b,4.4
JMA III 11 14 19 06.2–.30 36.27N 141.85E 35 4.6,4.4
MOS III 11 14 19 06.4–.99 36.30N 141.68E 33 4.9b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=110.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.5km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.8km az=163.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=7.1km az=114.0.
JMA III 11 14 20 03.1–.10 36.63N 140.97E 43–1 3.2
¶603049405
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 14 25 42.5–.20 38.33N 141.82E 40–4 3.7
¶602653067
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 14 28 49.2–.65 38.27N–.07 142.05E–.07 41 4.9b 40 1-146
NIED III 11 14 28 00 38.30N 142.00E 29 5.3W **¶17193915**
IDC III 11 14 28 43.3–1.0 38.25N 142.00E 0 5.0,4.9
ISCJB III 11 14 28 47.6–.53 38.29N–.06 142.13E–.06 41 4.8b,4.9
JMA III 11 14 28 49.9–.20 38.33N 142.03E 42–2 4.9,4.9
NEIC III 11 14 28 50.9–1.5 38.24N 141.89E 54–15 4.3b,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s117.00000°,δ43.00000°,λ24.00000°. NP2:ϕ_s9.00000°,δ73.00000°,λ131.00000°. $M_0$1.06000×10^{17}
IDC Error ellipse: s-maj=27.9km s-min=21.2km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.2km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.2km s-min=12.7km az=217.0. Recorded [2 JMA] in Chiba, Fukushima, Iwate and Miyagi.
ISC III 11 14 30 57.8–.84 38.12N–.08 142.42E–.08 35 4.3b 25 1-89
IDC III 11 14 30 50.1–.78 37.71N 142.23E 0 4.5,4.4 **¶17193917**
ISCJB III 11 14 30 56.3–.66 38.16N–.06 142.46E–.06 35 4.4b,4.4
JMA III 11 14 30 57.3–.30 38.28N 142.35E 29 5.0,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.4km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.2km az=148.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 11 14 31 22.6–.10 36.25N 140.96E 44–1 3.6
¶603049410
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 11 14 31 49.6–7.0 38.72N 141.66E 0 4.6,4.6
¶16449473
IDC Error ellipse: s-maj=190.0km s-min=113.6km az=54.0.
ISC III 11 14 31 58.8–.49 36.03N–.05 141.36E–.06 26 4.6b 56 1-152
IDC III 11 14 31 54.8–.57 35.96N 141.59E 0 4.6,4.5 **¶600539690**
ISCJB III 11 14 31 56.8–.36 35.93N–.04 141.55E–.05 26 4.5b,4.5
JMA III 11 14 31 58.5–.20 36.04N 141.28E 26–3 4.6,4.5
NEIC III 11 14 31 59.6–.41 35.88N 141.50E 35 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.7km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.5km az=137.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.8km az=56.0.
JMA III 11 14 35 26.5–.20 35.96N 141.06E 15–2 3.6
¶602653023
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 14 36 32.6–.10 36.24N 140.90E 43–2 2.9
¶603049412
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 14 37 45.7–.10 36.24N 140.48E 47–1 2.6
¶603049413
ISC III 11 14 42 17.2–.79 39.59N–.07 142.9E–.10 18 4.3b 13 3-149
IDC III 11 14 42 14.2–.86 39.54N 142.95E 0 4.4,4.2 **¶17193934**
ISCJB III 11 14 42 15.8–.73 39.59N–.05 142.9E–.10 18 4.2b,4.2
JMA III 11 14 42 21.6–.30 39.61N 142.56E 32–4 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=22.6km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.8km az=3.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 14 42 25.0–6.4 39N–1.0 142.8E–.30 23 4.4b 15 28-82
IDC III 11 14 42 20.5–6.5 38.56N 142.80E 0 4.4,4.3 **¶17193937**
ISC Event type ke.
IDC Error ellipse: s-maj=178.6km s-min=29.4km az=169.0.
ISC III 11 14 44 08.9–.40 36.67N–.03 140.99E–.04 44–3 5.1b 548 0-152
NIED III 11 14 44 00 36.60N 141.00E 47 4.9W **¶17193938**
BJI III 11 14 44 01.8 36.55N 141.30E 25 5.5b,5.2s
MOS III 11 14 44 08.0–.83 36.89N 140.89E 37 5.5b,5.2s
ISCJB III 11 14 44 09.2–.29 36.66N–.02 140.88E–.03 56–2 5.9s,5.1b
IDC III 11 14 44 09.3–.39 36.65N 140.90E 44–3 5.0,4.8
JMA III 11 14 44 09.4 36.65N 140.98E 47–1 4.9,4.8
NEIC III 11 14 44 11.1–.58 36.67N 140.80E 59–5 5.1b,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ23.00000°,λ98.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ86.00000°. $M_0$2.27000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=109.8.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=42.1.
IDC Error ellipse: s-maj=9.7km s-min=6.9km az=103.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=149.0. Recorded [4 JMA] in Ibaraki.
ISC III 11 14 47 47.6–1.2 40.6N–.10 141.7E–.20 10 4.1b 9 1-64
JMA III 11 14 47 43.6–.40 39.99N 142.98E 21 4.1 **¶17193941**
ISCJB III 11 14 47 45.8–.86 40.55N–.09 141.7E–.20 10 4.0b
IDC III 11 14 47 46.7–2.7 40.58N 141.60E 0 4.2,4.2L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=8.8km az=26.9.
IDC Error ellipse: s-maj=80.7km s-min=23.0km az=67.0.
ISC III 11 14 49 04.8–1.3 38.4N–.10 142.6E–.10 23 4.3b 9 2-70
IDC III 11 14 49 00.3–2.1 38.36N 143.18E 0 4.4,4.4 **¶17193942**
ISCJB III 11 14 49 01.8–1.5 38.4N–.20 142.9E–.20 23 4.3b,4.4
JMA III 11 14 49 04.5–.10 38.51N 142.47E 20–2 4.4,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=30.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=26.3km s-min=15.6km az=40.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 14 49 07.4–.10 36.40N 140.92E 35–1 4.0
¶602653008
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 14 51 14.8–2.5 37.04N–.05 141.5E–.10 24–15 4.1b 30 1-90
IDC III 11 14 51 08.2–.99 36.44N 141.49E 0 4.3,4.1 **¶16476482**
ISCJB III 11 14 51 13.1–1.2 37.03N–.05 141.63E–.06 21–6 4.1b,4.1
JMA III 11 14 51 15.8–.20 37.06N 141.47E 39–2 4.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=25.0km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=7.7km az=33.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 14 53 26.1–.20 36.20N 141.04E 41–3 2.7
¶603049416
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 14 54 01.3–.76 35.91N–.03 141.95E–.04 19–3 5.3b 852 1-154
IDC III 11 14 53 58.7–.38 35.93N 141.94E 0 5.0,5.0 **¶17193953**
JMA III 11 14 53 58.2–.40 36.01N 142.14E 13 5.4,5.0
NEIC III 11 14 53 59.7–2.4 35.97N 141.90E 9–14 5.3b,5.0
ISCJB III 11 14 54 01.0–.75 35.95N–.02 141.94E–.02 23–5 5.6s,5.2b
MOS III 11 14 54 01.0–1.2 35.97N 141.96E 26 5.5b,5.2b
BJI III 11 14 54 02.3 35.97N 141.64E 25 5.6b,5.6s
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=9.9km az=136.0.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=133.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=157.2.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=111.1.
ISC III 11 14 56 14.9–.62 36.00N–.03 141.52E–.03 28–4 5.7b,5.6s 1393 1-161
NIED III 11 14 56 00 36.10N 141.60E 26 5.6W,5.6s **¶16304999**
IDC III 11 14 56 10.8–.32 36.02N 141.44E 0 5.5b,5.5
NEIC III 11 14 56 11.9–2.0 35.96N 141.40E 10–12 5.8b,5.5
ISCJB III 11 14 56 12.7–.63 35.95N–.02 141.54E–.02 21–4 5.7b,5.6s
BJI III 11 14 56 13.0 35.97N 141.38E 24 5.7s,5.6b
JMA III 11 14 56 13.8–.20 35.97N 141.57E 31–4 5.8,5.6b
MOS III 11 14 56 13.1–1.2 36.05N 141.58E 24 6.0b,5.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_D273.00000°,δ30.00000°,λ-84.00000°. NP2:ϕ_S86.00000°,δ60.00000°,λ-93.00000°. $M_0$2.72000×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=9.2km az=97.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=165.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=3.7km az=105.2.
JMA III 11 14 57 43.6–.10 37.04N 141.14E 50–1 3.7
¶602652986
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 14 58 16.4–.20 36.19N 141.46E 48–5 4.1
¶602652983
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 14 59 01.4–.20 37.06N 141.30E 56–2 4.1
¶603049418
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 14 59 42.7–.40 36.07N 141.48E 36 3.8
¶602652980
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 11 15 01 38.5–.43 39.04N–.04 142.52E–.05 37–1 4.9b 305 2-155
NIED III 11 15 01 00 39.00N 142.50E 29 4.8W **¶16449483**
BJI III 11 15 01 34.0 38.92N 142.65E 26 5.3b,5.1s
MOS III 11 15 01 37.5–1.0 39.16N 142.46E 35 5.2b,5.1s
ISCJB III 11 15 01 38.9–.46 39.02N–.02 142.42E–.03 53–4 5.0s,4.9b
JMA III 11 15 01 38.0–.10 39.11N 142.41E 29–1 4.9,4.9b
IDC III 11 15 01 40.6–1.7 39.07N 142.40E 50–15 4.8,4.6
NEIC III 11 15 01 41.1–.60 39.05N 142.35E 60–5 5.0b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_D341.00000°,δ29.00000°,λ-93.00000°. NP2:ϕ_S164.00000°,δ61.00000°,λ-89.00000°. $M_0$1.66000×10^{16}
MOS Error ellipse: s-maj=8.8km s-min=6.2km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=34.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=10.1km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=144.0. Recorded [2 JMA] in Iwate and Miyagi.
JMA III 11 15 02 57.4–.20 38.75N 142.16E 32 4.2
¶602652978
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 15 03 56.9–.50 38.04N–.07 142.98E–.08 18 4.4b 64 2-145
IDC III 11 15 03 54.2–.54 38.05N 143.01E 0 4.5,4.3 **¶16476492**
ISCJB III 11 15 03 55.4–.34 38.08N–.05 143.09E–.07 18 4.3b,4.3
NEIC III 11 15 03 57.2–2.8 38.12N 143.04E 18–17 4.6b,4.3
JMA III 11 15 03 57.5–.30 38.15N 142.80E 1–5 5.1,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.2km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.3km az=42.3.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.7km az=129.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 15 04 25.3–.53 38.08N–.08 142.85E–.09 18 4.5b 67 6-145
ISCJB III 11 15 04 22.9–.39 37.93N–.07 142.82E–.07 18 4.5b **¶17193956**
IDC III 11 15 04 22.3–.58 37.96N 142.86E 0 4.6,4.5
NEIC III 11 15 04 23.7–3.4 38.03N 142.89E 10–20 4.9b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.3km az=154.7.
IDC Error ellipse: s-maj=15.1km s-min=13.7km az=161.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.9km az=132.0.
JMA III 11 15 05 22.3–.20 36.05N 141.21E 26–2 3.5
¶602652974
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 15 05 53.3–.20 37.46N 141.46E 44–3 4.0
¶602652971
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 15 05 54.0–.10 36.34N 141.02E 40–1 3.5
¶602652968
ISC III 11 15 06 21.8–.34 37.27N–.04 141.96E–.04 19 4.9b 247 1-155
ISCJB III 11 15 06 21.0–.23 37.32N–.03 141.91E–.03 19 4.8b **¶602652964**
JMA III 11 15 06 24.5–.20 37.29N 141.76E 35–3 4.8
NEIC III 11 15 06 24.3–.82 37.28N 141.74E 32–5 5.0b
MOS III 11 15 06 24.1–.92 37.52N 141.79E 33 5.0b
IDC III 11 15 06 25.4–2.1 37.25N 141.80E 43–18 4.7,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=154.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=137.0. Recorded [2 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=8.3km s-min=6.1km az=103.3.
IDC Error ellipse: s-maj=11.0km s-min=10.2km az=122.0.
ISC III 11 15 07 40.7–.37 36.35N–.03 141.60E–.05 21–3 5.4b 865 1-158
BJI III 11 15 07 39.4 36.50N 141.70E 30 5.2b,5.2s **¶16425239**
NEIC III 11 15 07 39.5–2.0 36.33N 141.54E 15–12 5.5b,5.2s
ISCJB III 11 15 07 40.4–.68 36.36N–.02 141.58E–.02 29–4 5.3b,5.2s
JMA III 11 15 07 41.5–.20 36.38N 141.53E 41–4 5.4,5.2s
MOS III 11 15 07 41.1–1.1 36.40N 141.57E 34 5.6b,5.2s
IDC III 11 15 07 43.5–2.3 36.37N 141.52E 38–20 5.0,4.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=3.1km az=177.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.6km az=110.5.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=102.0.
ISC III 11 15 10 25.2–.54 35.97N–.06 141.45E–.07 26 4.3b 49 1-152
IDC III 11 15 10 21.6–.60 35.99N 141.40E 0 5.7,5.7s **¶16425240**
ISCJB III 11 15 10 23.2–.36 35.96N–.04 141.60E–.06 26 5.7s,4.4b
JMA III 11 15 10 25.9–.20 36.02N 141.49E 28–3 3.9,4.4b
NEIC III 11 15 10 26.4–.30 35.97N 141.45E 35 4.8b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=15.1km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.8km az=30.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=111.0. Recorded [2 JMA] in Gifu and Nagano.
ISC III 11 15 12 05.1–.58 37.09N–.08 141.85E–.06 19 4.4b 35 1-146
JMA III 11 15 12 05.7–.30 37.13N 142.01E 42 4.3 **¶16453101**
NEIC III 11 15 12 09.5–1.5 37.03N 141.93E 58–13 4.2b
IDC III 11 15 12 11.5–3.0 37.04N 141.92E 75–26 4.3,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=9.0km az=75.0.
IDC Error ellipse: s-maj=18.3km s-min=14.4km az=92.0.
ISC III 11 15 13 14.5–.38 36.00N–.03 141.88E–.03 19–1 6.3s,6.2b 2169 1-161
NIED III 11 15 13 00 36.00N 142.00E 11 6.1W,6.2b **¶16305002**
IDC III 11 15 13 11.6–.28 35.98N 141.86E 0 6.2,6.2s
JMA III 11 15 13 12.4–.30 36.05N 142.00E 23–5 6.7,6.2s
ISCJB III 11 15 13 13.9–.06 35.96N–.01 141.91E–.01 25 6.3s,6.1b
BJI III 11 15 13 13.2 36.05N 141.59E 20 6.7s,6.5b
NEIC III 11 15 13 14.7–.08 35.99N 141.81E 21 6.3W,6.3s
MOS III 11 15 13 14.1–1.0 36.07N 141.88E 25 6.5s,6.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S87.00000°,δ33.00000°,λ158.00000°. NP2:ϕ_S196.00000°,δ78.00000°,λ59.00000°. $M_0$1.72000×10^{18}
IDC Error ellipse: s-maj=9.9km s-min=7.4km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.4km az=160.7.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=144.0. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s39 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.39 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$0.59 $M_{r\theta}$0.73 $M_{\theta\phi}$-2.57 $M_{\phi r}$-3.00 Best double couple: NP1:ϕ_S91.00000°,δ39.00000°,λ-176.00000°. NP2:ϕ_S358.00000°,δ87.00000°,λ-51.00000°. Principal axes: T 4.4600,Plg31.0000°,Azm56.0000° ; N -1.0000,Plg39.0000°,Azm175.0000°; P -3.4600,Plg36.0000°,Azm301.0000° $M_0$4.00000×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=108.6.
JMA III 11 15 15 11.4 36.74N 141.00E 17–1 4.9
¶602652956
JMA Event type fe.
JMA III 11 15 16 32.8–.10 36.95N 141.12E 49–1 3.6
¶602652955
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 15 18 58.9–.10 38.37N 141.75E 44–1 3.5
¶602652953
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 15 19 37.4–.66 36.24N–.03 141.92E–.04 29–4 5.5b 1112 1-158
IDC III 11 15 19 33.2–.34 36.28N 141.98E 0 5.3,5.3 **¶17193959**
BJI III 11 15 19 34.6 36.18N 141.73E 16 6.0b,5.8
JMA III 11 15 19 34.7–.30 36.32N 142.06E 18 5.7,5.8
MOS III 11 15 19 36.6–.94 36.40N 141.91E 29 5.8b,5.8
ISCJB III 11 15 19 37.3–.39 36.25N–.02 141.91E–.02 38–3 6.1s,5.5b
NEIC III 11 15 19 38.3–.13 36.25N 141.86E 35 5.5b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=147.9.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=145.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Saitama.
ISC III 11 15 20 04.0–.25 36.37N–.04 141.96E–.04 19 5.9b 360 1-161
IDC III 11 15 20 00.7–.34 36.32N 142.01E 0 5.7,5.7 **¶16461336**
ISCJB III 11 15 20 02.6–.16 36.40N–.03 141.95E–.04 19 5.8b,5.7
JMA III 11 15 20 04.9–.50 36.42N 141.91E 0 6.3,5.7
NEIC III 11 15 20 08.2–.82 36.40N 141.86E 53–7 6.0b,5.7
ISC Event type se.
IDC Error ellipse: s-maj=11.2km s-min=9.4km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=140.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=94.0.
ISC III 11 15 22 26.2–.46 35.73N–.06 141.64E–.07 26 5.1b 56 1-154
IDC III 11 15 22 22.3–.49 35.77N 141.68E 0 5.2,5.1 **¶16442216**
ISCJB III 11 15 22 24.1–.35 35.70N–.04 141.76E–.06 26 5.1b,5.1
JMA III 11 15 22 24.4–.30 35.91N 141.77E 12–3 4.9,5.1
NEIC III 11 15 22 27.0–.38 35.64N 141.55E 35 5.5b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.8km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.2km az=30.4.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.5km az=103.0.
JMA III 11 15 23 42.1–.40 36.30N 141.66E 2 4.4
¶602652952
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 15 25 58.9–.10 36.03N 141.07E 38–1 4.0
¶602652946
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 15 26 52.2–.20 37.21N 141.15E 14–1 4.4
¶600539754
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 15 28 00.8–.66 36.0N–.10 141.8E–.10 23 4.3b 19 3-152
IDC III 11 15 27 57.0–1.4 35.94N 141.85E 0 4.5,4.2 **¶16453102**
ISCJB III 11 15 27 59.1–.66 36.0N–.10 141.8E–.10 23 4.2b,4.2
NEIC III 11 15 28 02.4–.49 35.94N 141.76E 35 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=43.1km s-min=23.5km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=12.7km az=42.8.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=11.0km az=138.0.
ISC III 11 15 31 04.2–1.2 37.3N–.10 141.97E–.07 24 4.3b 15 1-77
IDC III 11 15 31 07.6–2.8 38.05N 143.08E 0 4.5,4.1 **¶17193961**
JMA III 11 15 31 11.6–.20 37.32N 141.54E 43–2 3.8,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=203.0km s-min=24.5km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 15 32 17.2–.10 36.82N 140.98E 50–1 3.7
¶602652931
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 15 36 12.7–.34 38.84N–.04 142.81E–.05 16 4.9b 302 2-154
IDC III 11 15 36 11.0–.42 38.86N 142.80E 0 4.9,4.8 **¶16305005**
ISCJB III 11 15 36 11.1–.18 38.76N–.03 142.90E–.03 16 5.9s,4.9b
MOS III 11 15 36 14.4–1.4 38.93N 142.79E 33 5.2b,4.9b
JMA III 11 15 36 14.1–.30 38.92N 142.71E 13–3 5.0,4.9b
NEIC III 11 15 36 15.3–.20 38.81N 142.71E 35 4.9b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.8km az=142.8.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=97.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.2km az=146.0. Recorded [2 JMA] in Miyagi.
ISC III 11 15 38 34.0–.76 38.82N–.09 142.7E–.10 35 4.3b 28 4-82
IDC III 11 15 38 28.0–1.8 38.69N 142.87E 0 4.4,4.3 **¶16453104**
ISCJB III 11 15 38 32.0–.61 38.76N–.07 142.76E–.10 35 4.2b,4.3
NEIC III 11 15 38 33.8–.47 38.79N 142.76E 35 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=47.7km s-min=18.3km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=7.6km az=43.1.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.8km az=124.0.
ISC III 11 15 38 54.6–.96 35.69N–.04 141.02E–.06 33–4 4.8b 159 0-148
MOS III 11 15 38 53.8–1.1 35.67N 141.00E 41 5.1b **¶602652926**
JMA III 11 15 38 54.5–.20 35.74N 141.06E 33–1 4.1
ISCJB III 11 15 38 54.2–.46 35.66N–.03 140.98E–.05 44–4 4.7b
NEIC III 11 15 38 56.6–.67 35.59N 140.93E 54–6 4.9b
IDC III 11 15 38 57.1–1.5 35.65N 140.91E 54–14 4.9,4.9s
ISC Event type ke.
MOS Error ellipse: s-maj=9.4km s-min=6.4km az=108.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=3.6.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.9km az=63.0.
IDC Error ellipse: s-maj=12.0km s-min=8.6km az=94.0.
ISC III 11 15 39 47.0–.39 36.40N–.04 141.91E–.05 19 4.8b 149 1-147
NIED III 11 15 39 00 36.40N 142.00E 8 4.9W **¶16453112**
IDC III 11 15 39 44.7–.51 36.40N 141.89E 0 4.8,4.7
ISCJB III 11 15 39 45.5–.23 36.35N–.03 141.96E–.03 19 4.8b,4.7
JMA III 11 15 39 47.9–.20 36.38N 141.88E 62 4.5,4.7
MOS III 11 15 39 48.7–1.4 36.52N 141.93E 41 5.2b,4.7
NEIC III 11 15 39 49.4–3.1 36.47N 141.82E 31–21 4.9b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S309.00000°,δ21.00000°,λ123.00000°. NP2:ϕ_S95.00000°,δ72.00000°,λ78.00000°. $M_0$2.71000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=12.8km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.9km az=179.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=10.3km s-min=7.3km az=117.6.

NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=7.3km az=139.0. Recorded [2 JMA] in Chiba and Ibaraki.
JMA III 11 15 41 46.7–.30 38.00N 141.94E 5 4.7 ¶603049422
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 15 42 03.8–.37 36.08N–.03 141.76E–.04 19–1 5.5b 509 1-154
IDC III 11 15 42 01.2–.42 36.08N 141.83E 0 5.0,4.9 **¶600539776**
JMA III 11 15 42 02.8–.20 36.13N 141.90E 16–3 5.5,4.9
NEIC III 11 15 42 03.9–.61 36.02N 141.71E 17–3 5.4b,4.9
BJI III 11 15 42 03.2 35.97N 141.51E 21 5.9b,5.8s
ISCJB III 11 15 42 04.4–.86 36.05N–.02 141.74E–.03 30–5 5.6s,5.3b
MOS III 11 15 42 07.1–1.1 36.51N 141.65E 33 5.7b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=11.9km s-min=10.2km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=138.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.3km az=27.3.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=116.3.
JMA III 11 15 43 41.0–.10 37.50N 141.36E 10–2 4.4 ¶602652924
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 15 45 11.6–1.0 40.0N–.20 142.1E–.10 55 4.4b 10 11-72
ISCJB III 11 15 45 09.4–.85 40.0N–.10 142.2E–.20 55 4.3b **¶17193968**
IDC III 11 15 45 13.2–5.4 40.02N 142.06E 70–50 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.6km s-min=16.7km az=141.9.
IDC Error ellipse: s-maj=24.7km s-min=19.0km az=104.0.
ISC III 11 15 46 01.2–.33 35.98N–.04 141.96E–.05 23 4.9b 190 1-147
IDC III 11 15 45 58.6–.47 36.00N 141.90E 0 4.6,4.5 **¶602652921**
BJI III 11 15 45 58.7 35.82N 142.10E 20 5.3b,5.3s
ISCJB III 11 15 45 59.2–.20 35.94N–.03 142.02E–.03 23 4.9s,4.8b
JMA III 11 15 46 01.0–.40 36.13N 141.87E 17 4.7,4.8b
MOS III 11 15 46 01.9–1.2 36.06N 141.94E 38 5.3b,4.8b
NEIC III 11 15 46 02.6–.23 35.94N 141.97E 35 5.0b,4.8b
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=11.4km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=148.5.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=115.6.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.3km az=154.0.
JMA III 11 15 47 01.2–.20 36.50N 141.55E 41–4 4.4 ¶16310125
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 15 49 34.9–.10 36.25N 140.92E 29–2 3.7 ¶602653576
JMA Event type fe.
ISC III 11 15 51 42.7–.57 38.72N–.07 142.97E–.08 23 4.8b 78 4-88
ISCJB III 11 15 51 40.8–.39 38.63N–.05 143.00E–.06 23 4.7b **¶602653572**
IDC III 11 15 51 43.9–6.8 38.69N 143.02E 31–48 4.6,4.6
NEIC III 11 15 51 44.3–.35 38.70N 142.99E 35 5.0b,4.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.5km az=138.5.
IDC Error ellipse: s-maj=20.1km s-min=14.9km az=153.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.8km az=135.0.
ISC III 11 15 54 11.3–1.0 36.4N–.20 140.8E–.20 32 4.3b 11 9-147
IDC III 11 15 54 06.0–.92 36.45N 140.96E 0 4.8s,4.8 **¶600539788**
ISCJB III 11 15 54 09.4–.89 36.3N–.10 140.7E–.30 32 4.2b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 15 55 24.7–1.9 36.62N–.04 141.96E–.05 29–13 4.7b 143 1-147
BJI III 11 15 55 20.4 36.61N 142.38E 35 5.5b,5.3 **¶17193973**
NEIC III 11 15 55 22.1–.91 36.66N 141.94E 11–5 4.9b,5.3
ISCJB III 11 15 55 23.7–.25 36.61N–.03 141.98E–.03 33 4.7b,5.3
JMA III 11 15 55 25.9–.20 36.70N 141.82E 44–5 4.7,5.3
IDC III 11 15 55 28.3–2.2 36.65N 141.78E 54–20 4.5,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=12.3km az=92.0.
ISC III 11 15 56 46.4–.82 35.02N–.10 141.5E–.10 25 4.2b 21 1-91
ISCJB III 11 15 56 44.3–.66 34.95N–.09 141.6E–.10 25 4.2b **¶602443424**
IDC III 11 15 56 53.7–9.8 35.16N 141.15E 84–90 4.3,4.1
JMA III 11 15 57 01.4–.10 35.95N 141.56E 35–4 4.8,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=8.3km az=141.2.
IDC Error ellipse: s-maj=26.6km s-min=17.0km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 15 57 56.6–.10 37.11N 141.11E 49–1 4.1 ¶603049427
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 15 59 22.3–.10 36.52N 140.87E 49–1 3.9 ¶602653570
JMA Event type fe.
JMA III 11 16 01 04.8–.20 38.30N 141.93E 37–3 3.7 ¶603049428
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 16 03 49.3–.20 38.28N 142.21E 29 4.4 ¶602653563
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 16 05 23.2–.10 37.24N 141.43E 45–1 4.4 ¶603049431
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 06 46.6–.10 36.53N 140.93E 49–1 4.3 ¶602653560
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 16 07 52.6–.20 36.39N 141.66E 48 4.0 ¶17193983
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 09 31.5–.10 35.93N 141.11E 25–2 3.6 ¶602653551
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 09 59.3–.30 36.34N 141.36E 62 3.6 ¶602653548
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA III 11 16 12 03.9–.20 36.23N 141.72E 54–4 4.4 ¶602653541
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 16 13 35.0–.10 36.27N 141.31E 45–3 3.5 ¶602653540
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 14 24.9–.20 35.97N 141.61E 27–4 3.7 ¶602653537
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 17 27.0–.20 38.48N 142.05E 41–4 4.2 ¶603049432
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 16 18 51.6–1.0 37.3N–.10 141.80E–.07 24 4.0b 15 1-90
ISCJB III 11 16 18 51.2–.92 37.35N–.08 141.82E–.06 24 4.1b **¶17193992**
IDC III 11 16 18 54.7–.96 38.53N 142.58E 0 4.4L,4.3
JMA III 11 16 18 56.8–.20 37.39N 141.50E 38–2 3.8,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.6km az=162.1.
IDC Error ellipse: s-maj=35.7km s-min=22.9km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 16 19 16.0–1.9 36.15N–.06 141.3E–.10 26 9 1-60
JMA III 11 16 19 15.7–.10 36.12N 141.26E 26–2 4.3 **¶602653526**
ISCJB III 11 16 19 15.1–1.7 36.15N–.05 141.3E–.10 26 4.0b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 11 16 20 50.4–.35 36.24N–.04 141.96E–.04 21–3 5.0b 435 1-148
BJI III 11 16 20 48.7 36.17N 141.68E 12 5.6b,5.3s **¶16305012**
ISCJB III 11 16 20 49.8–1.1 36.18N–.02 141.95E–.03 26–7 5.0s,4.9b
JMA III 11 16 20 49.7–.30 36.26N 142.04E 25 4.9,4.9b
MOS III 11 16 20 50.5–1.1 36.18N 141.94E 32 5.2b,4.9b
IDC III 11 16 20 52.4–4.0 36.18N 141.98E 32–30 4.8,4.7
NEIC III 11 16 20 52.8–.61 36.18N 141.91E 36–5 4.9b,4.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=140.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=110.8.
IDC Error ellipse: s-maj=11.7km s-min=8.4km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=135.0. Recorded [2 JMA] in Chiba and Ibaraki.
JMA III 11 16 24 52.9–.50 37.52N 141.80E 18–5 3.7 ¶603049434
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 11 16 25 20.8–.30 38.54N 141.98E 34 3.4 ¶602653518
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 11 16 27 10.1–.60 36.11N 141.99E 49 3.9 ¶603049435
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
JMA III 11 16 29 10.4–.10 36.81N 141.15E 46–1 3.6 ¶602653497
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 16 29 41.1–1.3 36.32N–.04 141.11E–.06 30–9 4.4b 69 1-93
ISCJB III 11 16 29 40.6–.72 36.29N–.04 141.22E–.06 42–6 4.4b **¶602653493**
JMA III 11 16 29 41.0–.10 36.25N 141.16E 46–2 4.3
NEIC III 11 16 29 43.0–1.0 36.37N 141.16E 47–10 4.8b
IDC III 11 16 29 44.8–2.7 36.39N 141.15E 60–23 4.3,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.9km az=168.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.4km az=200.0.
IDC Error ellipse: s-maj=20.7km s-min=15.2km az=172.0.
ISC III 11 16 31 04.3–.54 38.77N–.08 142.96E–.07 16 4.4b 73 2-145
ISCJB III 11 16 31 02.5–.37 38.78N–.05 143.04E–.06 16 4.3b **¶602653489**
JMA III 11 16 31 04.8–.30 38.87N 142.70E 0 4.5
NEIC III 11 16 31 07.2–.38 38.80N 142.84E 35 4.5b
IDC III 11 16 31 11.4–3.5 38.88N 142.80E 64–31 4.3,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.0km az=144.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.8km az=122.0.
IDC Error ellipse: s-maj=15.5km s-min=13.3km az=120.0.
JMA III 11 16 31 11.3–.20 36.19N 141.42E 47–4 3.6 ¶602653488
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 31 50.6–.20 38.28N 141.97E 32 3.6 ¶602653481
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 11 16 36 48.2–.10 36.07N 141.04E 39–2 3.3 ¶603049437
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 16 40 36.4–.20 35.92N 140.89E 36–2 3.0 ¶603049438
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 16 40 53.6–.82 37.37N–.09 141.80E–.06 24 4.1b 22 1-146
ISCJB III 11 16 40 52.2–.68 37.31N–.08 141.92E–.04 24 4.1b **¶602653459**
JMA III 11 16 40 54.0–.20 37.36N 141.80E 22–3 4.3
IDC III 11 16 40 59.3–4.6 37.71N 142.36E 38–42 4.2,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=4.9km az=170.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=32.4km s-min=20.3km az=123.0.
ISC III 11 16 42 20.1–.43 38.34N–.05 142.90E–.05 23 4.7b 147 2-145
NIED III 11 16 42 00 38.40N 143.00E 17 4.6W **¶16461245**
ISCJB III 11 16 42 18.6–.23 38.38N–.03 142.99E–.03 23 4.6b
JMA III 11 16 42 18.7–.30 38.45N 142.86E 7–3 4.8
NEIC III 11 16 42 22.6–.69 38.38N 142.86E 42–6 4.7b
IDC III 11 16 42 23.8–2.5 38.40N 142.91E 51–22 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ48.00000°,λ-150.00000°. NP2:ϕ_s209.00000°,δ68.00000°,λ-46.00000°. $M_0$7.83000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=126.0.
IDC Error ellipse: s-maj=13.5km s-min=10.2km az=94.0.
JMA III 11 16 45 27.8–.20 37.10N 141.65E 41–2 3.6 ¶602652909
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 45 52.2–.20 38.36N 141.75E 48–2 3.9 ¶602652905
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 16 47 19.6–.20 37.03N 141.46E 52–2 3.6 ¶602652901
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 48 28.5–.30 38.32N 142.23E 37 3.9 ¶602652897
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 16 49 17.6–.43 36.08N–.05 141.24E–.06 31 4.6b 104 0-147
ISCJB III 11 16 49 15.9–.27 36.07N–.04 141.24E–.04 31 4.5b **¶602652895**
NEIC III 11 16 49 15.7–2.8 36.00N 141.24E 20–17 4.8b
JMA III 11 16 49 16.7–.10 36.07N 141.23E 45–2 4.6
IDC III 11 16 49 19.4–2.2 36.05N 141.26E 44–20 4.4,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.6km az=146.2.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.8km az=131.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=12.1km az=151.0.
JMA III 11 16 49 39.1–.20 36.89N 141.15E 46–1 4.6 ¶16445704
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 16 51 50.0–.10 36.02N 141.25E 31–2 3.7 ¶602652894
JMA Event type fe.
JMA III 11 16 51 54.9–.40 36.07N 141.11E 38–4 3.4 ¶603049439
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 16 52 49.1–2.1 36.6N–.10 141.5E–.10 26 4.0b 13 1-60
IDC III 11 16 52 34.5–2.5 35.14N 142.14E 0 4.2,4.1 **¶603049440**
JMA III 11 16 52 49.8–.20 36.60N 141.49E 37–3 4.1,4.1
ISC Event type fe.
IDC Error ellipse: s-maj=80.6km s-min=21.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 16 52 59.5–.63 36.36N–.09 141.94E–.09 19 4.4b 60 3-147
ISCJB III 11 16 52 57.7–.41 36.41N–.06 141.94E–.06 19 4.4b **¶17193999**
NEIC III 11 16 53 01.8–.39 36.41N 141.89E 35 4.7b
IDC III 11 16 53 03.0–3.1 36.50N 141.94E 40–27 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.4km az=155.1.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.5km az=151.0.
IDC Error ellipse: s-maj=17.5km s-min=13.5km az=123.0.
JMA III 11 16 54 08.5–.20 37.39N 141.97E 28–5 4.4 ¶602652887
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 16 56 41.3–.42 38.20N–.06 142.31E–.06 14 4.7b 95 1-145
ISCJB III 11 16 56 39.5–.28 38.17N–.04 142.39E–.04 14 4.7b **¶17194001**

NEIC III 11 16 56 44.3–.27 38.18N 142.33E 35 4.8b
JMA III 11 16 56 44.5–.20 38.27N 142.20E 42 5.3
IDC III 11 16 56 48.6–2.5 38.30N 142.20E 66–22 4.7,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.3km az=146.3.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.5km az=143.0. Recorded [2 JMA] in Chiba, Fukushima and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=11.7km az=157.0.
JMA III 11 16 59 05.1–.20 38.90N 142.41E 40–4 3.9
¶602652883
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 16 59 23.9–.10 39.12N 142.50E 32–2 3.9
¶603049441
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 17 01 47.4–.10 37.74N 141.71E 39–4 3.8
¶603049443
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 17 06 53.1–.40 36.79N 141.87E 47 3.7
¶603049444
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA III 11 17 07 53.1–.10 36.70N 140.98E 46–1 2.8
¶602652838
ISC III 11 17 08 05.7–.93 36.63N–.04 141.01E–.06 44–8 4.2b 66 0-83
ISCJB III 11 17 08 05.2–.49 36.63N–.03 141.01E–.05 55–4 4.1b **¶602652833**
NEIC III 11 17 08 06.1–1.4 36.51N 140.89E 51–15 4.1b
JMA III 11 17 08 06.4–.10 36.65N 140.94E 49–1 4.2
IDC III 11 17 08 09.9–1.9 36.53N 140.79E 83–18 4.2,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=9.8.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=10.4km az=60.0.
JMA Event type fe.
IDC Error ellipse: s-maj=18.7km s-min=10.6km az=64.0.
JMA III 11 17 13 25.9–.20 37.60N 141.92E 36 4.3
¶603049446
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 17 14 55.0–.41 38.93N–.06 142.44E–.06 27 4.8b 189 1-149
IDC III 11 17 14 51.0–.49 38.93N 142.47E 0 5.3s,5.3 **¶16404894**
ISCJB III 11 17 14 53.9–.19 38.93N–.04 142.52E–.03 27 5.1s,4.7b
JMA III 11 17 14 55.2–.20 39.05N 142.42E 26–2 5.0,4.7b
NEIC III 11 17 14 59.9–.58 38.90N 142.38E 68–5 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=12.6km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=2.9km az=149.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=142.0. Recorded [3 JMA] in Iwate.
JMA III 11 17 17 17.3–.20 37.09N 141.64E 40–3 3.3
¶603049447
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 17 17 25.9–.96 35.34N–.03 141.66E–.04 14–5 5.4s,5.4b 476 1-161
NIED III 11 17 17 00 35.40N 142.00E 23 5.9W,5.4b **¶600539942**
NEIC III 11 17 17 23.6–.46 35.33N 141.39E 2–2 5.9W,5.4b
JMA III 11 17 17 23.6–.50 35.40N 142.03E 22 6.1,5.4b
ISCJB III 11 17 17 23.9–.14 35.31N–.02 141.54E–.03 10 5.5s,5.4b
IDC III 11 17 17 24.6–.50 35.30N 141.75E 0 5.3,5.3s
MOS III 11 17 17 28.7–.95 35.52N 141.53E 39 5.7b,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ80.00000°,λ6.00000°. NP2:ϕ_s59.00000°,δ84.00000°,λ170.00000°. $M_0$6.69000×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=149.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=135.7.
IDC Error ellipse: s-maj=14.7km s-min=12.5km az=131.0.
MOS Error ellipse: s-maj=8.8km s-min=5.6km az=105.1.
JMA III 11 17 22 47.4–.10 38.72N 141.49E 66–1 3.7
¶602652799
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 17 23 53.7–.30 36.00N–.04 141.81E–.04 10 5.0b 355 1-158
ISCJB III 11 17 23 52.7–.15 35.97N–.03 141.86E–.02 10 4.9b **¶16476543**
IDC III 11 17 23 52.8–.39 36.06N 141.92E 0 4.9,4.8
BJI III 11 17 23 54.0 36.04N 141.89E 26 5.8b,5.5s
MOS III 11 17 23 55.5–.94 36.05N 141.82E 28 5.3b,5.5s
JMA III 11 17 23 55.5–.20 36.12N 141.92E 32 5.2,5.5s
NEIC III 11 17 23 55.2–1.9 36.00N 141.81E 16–11 5.0b,5.5s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=174.4.
IDC Error ellipse: s-maj=13.8km s-min=10.5km az=107.0.
MOS Error ellipse: s-maj=7.7km s-min=5.9km az=111.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=136.0.
JMA III 11 17 27 12.7–.10 39.17N 142.34E 32–1 3.9
¶602652797
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 17 30 10.9–1.5 37.98N–.10 141.9E–.10 30 4.0b 13 1-62
IDC III 11 17 30 08.7–8.6 37.51N 141.29E 0 4.7s,4.7 **¶16461250**
JMA III 11 17 30 11.3–.20 38.09N 141.90E 51 4.5,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=311.2km s-min=23.4km az=62.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 17 30 46.1–.61 37.36N–.03 141.27E–.03 18–3 5.0b 443 0-147
BJI III 11 17 30 41.7 36.86N 141.61E 25 5.4b,5.4s **¶17194011**
IDC III 11 17 30 43.6–.42 37.39N 141.28E 0 4.8,4.7
ISCJB III 11 17 30 45.0–.13 37.31N–.02 141.32E–.02 18 4.9b,4.7
JMA III 11 17 30 46.3–.10 37.41N 141.31E 18–1 5.0,4.7
NEIC III 11 17 30 47.4–1.4 37.38N 141.14E 24–9 5.0b,4.7
MOS III 11 17 30 47.2–.90 37.60N 141.16E 27 5.2b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=10.3km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=158.7.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=139.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=7.6km s-min=4.8km az=102.5.
JMA III 11 17 39 26.6–.10 37.45N 141.40E 42–2 4.0
¶602652765
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 17 42 21.5–.40 36.25N 141.80E 36 3.6
¶603049449
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
JMA III 11 17 44 04.7–.20 36.09N 141.19E 29–3 2.9
¶603049450
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 17 48 10.2–.10 36.29N 140.91E 43–1 3.8
¶602652724
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 17 48 56.5–2.6 36.3N–.10 141.3E–.10 31–14 4.2b 23 1-60
NEIC III 11 17 48 43.2–3.6 34.41N 142.40E 35 4.4b **¶16425246**
IDC III 11 17 48 48.0–1.1 36.40N 142.43E 0 4.1,4.1b
JMA III 11 17 49 00.8–.10 36.87N 141.06E 49–1 3.9,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=60.4km s-min=25.7km az=119.0.
IDC Error ellipse: s-maj=32.2km s-min=21.0km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 17 49 25.2–.82 36.6N–.10 141.6E–.10 26 4.2b 17 1-147
IDC III 11 17 49 21.0–.86 36.61N 141.66E 0 4.3,4.2 **¶602652720**
ISCJB III 11 17 49 23.2–.67 36.5N–.10 141.6E–.10 26 4.1b,4.2
JMA III 11 17 49 25.5–.30 36.65N 141.42E 63–4 3.6,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=21.9km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=9.4km az=44.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC III 11 17 50 24.1–2.4 35.8N–.40 141.6E–.10 10 4.5b 11 3-147
IDC III 11 17 50 23.4–2.0 35.96N 141.65E 0 4.6,4.4 **¶16476551**
ISCJB III 11 17 50 24.1–2.0 36.1N–.30 141.7E–.20 10 4.3b,4.4
ISC Event type ke.
ISCJB Event type ke.
JMA III 11 17 51 43.2–.10 36.47N 141.06E 39–1 4.7
¶603049456
JMA Event type fe.
ISC III 11 17 55 51.0–1.4 35.84N–.09 141.0E–.20 31 4.1b 12 0-60
IDC III 11 17 55 44.0–2.0 36.00N 141.90E 0 4.0,4.0 **¶17194019**
ISCJB III 11 17 55 48.5–1.0 35.82N–.07 141.2E–.10 31 4.1b,4.0
JMA III 11 17 55 49.9–.10 35.88N 141.17E 18–2 3.8,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=69.3km s-min=20.4km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=10.1km az=175.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 17 56 46.8–.95 37.48N–.03 141.31E–.05 28–6 4.3b 96 0-147
NIED III 11 17 56 00 37.50N 141.30E 32 4.4W **¶16442221**
NEIC III 11 17 56 45.7–2.9 37.49N 141.30E 19–18 4.6b
ISCJB III 11 17 56 46.8–.58 37.41N–.03 141.38E–.06 45–4 4.3b
JMA III 11 17 56 47.2–.10 37.48N 141.32E 30–1 4.4
IDC III 11 17 56 48.7–2.4 37.49N 141.22E 40–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ56.00000°,λ-156.00000°. NP2:ϕ_s183.00000°,δ70.00000°,λ-37.00000°. $M_0$5.13000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=6.0km az=110.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=1.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=12.3km az=96.0.
JMA III 11 18 01 33.0–.10 36.90N 141.02E 50–1 3.0
¶603049457
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 18 01 48.1–.64 36.08N–.05 141.19E–.08 31 4.0b 33 0-91
IDC III 11 18 01 43.5–.76 36.04N 141.32E 0 4.1,4.0 **¶603049459**
ISCJB III 11 18 01 46.4–.49 36.08N–.05 141.29E–.06 31 4.0b,4.0
JMA III 11 18 01 47.6–.10 36.07N 141.25E 42–2 3.8,4.0
NEIC III 11 18 01 52.9–1.6 35.95N 141.02E 74–13 4.3b,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=19.1km s-min=18.1km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.2km az=37.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=12.4km az=156.0.
ISC III 11 18 02 25.6–1.1 35.5N–.20 141.7E–.20 25 4.0b 17 3-84
IDC III 11 18 02 21.5–1.1 35.40N 141.67E 0 4.1,4.1L **¶602652700**
ISCJB III 11 18 02 23.4–.82 35.32N–.08 141.6E–.20 25 3.9b,4.1L
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 08 25.9–1.5 36.52N–.04 142.00E–.06 20–12 4.1b 67 1-147
IDC III 11 18 08 23.1–.54 36.54N 141.97E 0 4.5L,4.1 **¶602652685**
NEIC III 11 18 08 24.5–2.8 36.57N 142.03E 10–17 4.4b,4.1
ISCJB III 11 18 08 25.9–1.5 36.55N–.03 142.02E–.04 33–11 4.0b,4.1
JMA III 11 18 08 27.0–.10 36.60N 141.92E 51–4 4.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=14.9km s-min=12.5km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.6km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=5.5km az=138.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 18 09 54.9–.10 36.92N 141.06E 49–1 3.1
¶603049461
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 18 17 05.1–.69 36.26N–.03 141.72E–.04 24–4 5.8b 1468 1-161
NIED III 11 18 17 00 36.30N 141.50E 5 5.3W **¶17194028**
IDC III 11 18 17 01.0–.36 36.19N 141.75E 0 5.6,5.6
BJI III 11 18 17 02.8 36.19N 141.55E 17 5.8b,5.8s
ISCJB III 11 18 17 03.2–.72 36.21N–.02 141.72E–.02 22–4 5.8s,5.7b
JMA III 11 18 17 03.0–.30 36.26N 141.80E 16 5.7,5.7b
MOS III 11 18 17 05.1–.89 36.29N 141.67E 33 6.0b,5.7b
NEIC III 11 18 17 07.3–.53 36.22N 141.63E 40–4 5.8b,5.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ40.00000°,λ44.00000°. NP2:ϕ_s65.00000°,δ64.00000°,λ121.00000°. $M_0$1.16000×10^{17}
IDC Error ellipse: s-maj=10.5km s-min=9.7km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=154.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.8km s-min=3.9km az=110.4.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=133.0.
ISC III 11 18 20 24.5–.65 36.10N–.08 142.00E–.06 23 4.7b 55 1-147
IDC III 11 18 20 21.3–.67 36.08N 141.92E 0 4.6,4.5 **¶16442246**
ISCJB III 11 18 20 22.7–.50 36.11N–.07 142.06E–.05 23 4.7b,4.5
JMA III 11 18 20 24.0–.20 36.13N 142.01E 38 4.3,4.5
NEIC III 11 18 20 24.3–.53 35.78N 142.01E 35 4.9b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=15.5km az=6.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=4.9km az=163.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=10.2km az=149.0.
JMA III 11 18 24 25.7–.10 37.30N 141.36E 24–1 3.2
¶603049462
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 18 28 40.2–.56 36.31N–.06 141.82E–.06 19 4.1b 46 1-147
IDC III 11 18 28 37.7–.62 36.40N 141.70E 0 4.2,4.1 **¶16442248**
ISCJB III 11 18 28 38.4–.41 36.33N–.05 141.88E–.05 19 4.0b,4.1
NEIC III 11 18 28 42.8–1.2 36.32N 141.66E 37–11 4.5b,4.1
JMA III 11 18 28 43.3–.20 36.37N 141.64E 60 3.6,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.9km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=144.8.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.2km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 18 32 03.9 36.57N 140.50E 46–1 2.2
¶603049463
ISC III 11 18 32 19.6–2.9 36.7N–.10 141.3E–.20 26 6 2-41
IDC III 11 18 32 09.4–6.4 36.82N 142.41E 0 3.8,3.8 **¶602652656**
ISC Event type ke.
IDC Error ellipse: s-maj=107.9km s-min=41.5km az=89.0.
ISC III 11 18 33 38.4–1.1 38.0N–.10 142.8E–.10 14 4.1b 13 2-58
ISCJB III 11 18 33 36.8–.99 38.1N–.10 142.7E–.10 14 4.0b **¶17194036**
IDC III 11 18 33 36.9–1.1 38.09N 142.66E 0 4.1,4.0
JMA III 11 18 33 47.3–.20 39.04N 142.33E 37–3 4.3,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=19.3km s-min=13.2km az=143.6.
IDC Error ellipse: s-maj=25.7km s-min=20.0km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 18 33 50.1–.10 37.32N 141.55E 45–2 3.5
¶603145345
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 18 36 50.7–.10 37.12N 141.23E 34–1 3.6
¶603049466
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 18 38 56.3–.84 39.4N–.10 142.7E–.10 18 4.1b 33 3-73
IDC III 11 18 38 53.4–.90 39.25N 142.76E 0 4.1,4.0 **¶16308456**
ISCJB III 11 18 38 54.5–.73 39.35N–.09 142.8E–.10 18 4.2b,4.0
NEIC III 11 18 38 55.1–.86 39.38N 142.81E 10 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.9km s-min=15.9km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=8.5km az=139.4.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=10.1km az=133.0.
JMA III 11 18 39 52.1–.10 36.58N 141.10E 31–1 4.4
¶603049467
JMA Event type fe.

ISC III 11 18 44 07.8–.48 36.87N–.03 141.19E–.04 42–4 5.0b,4.8s 734 0-157
BJI III 11 18 44 05.3 36.80N 141.44E 55 5.5b,5.1b **¶16442284**
MOS III 11 18 44 05.3–1.1 36.92N 141.03E 33 5.2b,5.1b
ISCJB III 11 18 44 07.8–.33 36.87N–.02 141.08E–.03 53–2 5.0b,4.8s
JMA III 11 18 44 08.0–.10 36.87N 141.15E 47–1 5.0,4.8s
IDC III 11 18 44 08.4–.54 36.85N 141.09E 50–5 4.8,4.6
NEIC III 11 18 44 09.2–.57 36.83N 141.02E 54–5 5.0b,4.6
ISC Event type se.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=97.7.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=137.1.
JMA Event type fe.
IDC Error ellipse: s-maj=10.0km s-min=7.8km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=132.0. Recorded [4 JMA] in Fukushima.
ISC III 11 18 45 28.4–.58 36.20N–.03 141.25E–.05 28–3 4.8b 103 1-91
NIED III 11 18 45 00 36.20N 141.30E 38 4.9W **¶16442268**
NEIC III 11 18 45 26.5–3.9 36.13N 141.24E 16–24 5.1b
JMA III 11 18 45 28.4–.10 36.22N 141.26E 43–3 4.8
ISCJB III 11 18 45 28.4–.62 36.18N–.03 141.28E–.05 44–5 4.7b
IDC III 11 18 45 30.2–.78 36.22N 141.16E 39–6 4.9L,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ29.00000°,λ156.00000°. NP2:ϕ_s345.00000°,δ79.00000°,λ63.00000°. $M_0$2.98000×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.5km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=7.6.
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=116.0.
JMA III 11 18 47 48.5–.20 36.00N 141.07E 31–2 3.9
¶603049468
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 18 48 13.4–.74 36.0N–.10 141.9E–.10 23 4.2b 15 3-147
IDC III 11 18 48 09.7–.75 35.97N 141.94E 0 4.4,4.2b **¶16442269**
ISCJB III 11 18 48 11.3–.64 35.97N–.09 141.9E–.10 23 4.2b,4.2b
NEIC III 11 18 48 14.9–.53 35.98N 141.85E 35 4.6b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=18.4km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=11.6km az=40.9.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=10.4km az=135.0.
JMA III 11 18 50 17.3–.10 36.26N 141.04E 29–2 3.8
¶602652645
JMA Event type fe.
ISC III 11 18 55 12.8–.88 35.81N–.04 141.82E–.04 16–5 4.8b 301 1-154
NIED III 11 18 55 00 36.00N 141.90E 14 4.9W **¶16445713**
IDC III 11 18 55 10.7–.43 35.84N 141.74E 0 4.7,4.6
JMA III 11 18 55 11.9–.20 35.95N 141.83E 16–3 4.8,4.6
NEIC III 11 18 55 11.4–2.8 35.80N 141.74E 4–17 5.0b,4.6
ISCJB III 11 18 55 12.2–1.0 35.82N–.02 141.78E–.03 20–7 4.8b,4.6
MOS III 11 18 55 16.9–.91 36.34N 141.63E 33 5.1b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ64.00000°,λ-10.00000°. NP2:ϕ_s112.00000°,δ81.00000°,λ-153.00000°. $M_0$2.12000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=10.5km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.9km az=23.5.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=114.0.
JMA III 11 18 57 26.4–.10 36.80N 140.58E 6–1 2.5
¶603049469
ISC III 11 18 58 15.2–.78 36.2N–.10 141.79E–.09 23 4.2b 30 3-151
IDC III 11 18 58 11.4–.80 36.10N 141.76E 0 4.2,4.1 **¶16445709**
ISCJB III 11 18 58 13.5–.72 36.2N–.10 141.80E–.07 23 4.0b,4.1
NEIC III 11 18 58 16.3–3.3 36.13N 141.79E 32–22 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.0km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=8.0km az=168.4.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=8.4km az=154.0.
ISC III 11 19 02 58.6–.35 39.33N–.03 143.00E–.03 24–2 6.2s,6.1b 1630 2-160
NIED III 11 19 02 00 39.20N 143.30E 20 6.1W,6.1b **¶602653178**
ISCJB III 11 19 02 55.0–.76 39.36N–.02 143.02E–.02 10–4 6.2s,6.0b
IDC III 11 19 02 54.6–.32 39.31N 142.86E 0 6.1s,6.0
BJI III 11 19 02 57.9 39.30N 142.70E 20 6.4,6.4s
JMA III 11 19 02 57.0–.30 39.35N 142.94E 9–3 6.3,6.4s
MOS III 11 19 02 58.6–1.1 39.38N 142.88E 32 6.3s,6.2b
GCMT III 11 19 02 59.2–.50 39.43N 143.01E 30–1 6.2W,6.2b
NEIC III 11 19 02 59.2–.35 39.34N 142.87E 27–2 6.2s,6.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ26.00000°,λ-64.00000°. NP2:ϕ_s245.00000°,δ67.00000°,λ-102.00000°. $M_0$1.77000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=150.0.
IDC Error ellipse: s-maj=11.0km s-min=8.9km az=96.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=102.2. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s97,c134; Duration: 3≡2 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.84±.22 $M_{\theta\theta}$2.25±.12; $M_{\phi\phi}$0.58±.12; $M_{r\theta}$0.70±.15; $M_{\theta\phi}$0.45±.06; $M_{\phi r}$1.07±.19; Best double couple: NP1:ϕ_s241.00000°,δ57.00000°,λ-104.00000°. NP2:ϕ_s86.00000°,δ36.00000°,λ-69.00000°. Principal axes:
T 2.5400,Plg11.0000°,Azm341.0000°; N 0.6580,Plg12.0000°,Azm249.0000°
; P -3.2040,Plg74.0000°,Azm112.0000° $M_0$2.87200×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=129.0. Recorded [4 JMA] in Iwate and Miyagi. Moment Tensor Solution. s37 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.14 $M_{\theta\theta}$0.78 $M_{\phi\phi}$0.36 $M_{r\theta}$0.41 $M_{\theta\phi}$0.49 $M_{\phi r}$0.67 Best double couple: NP1:ϕ_s68.00000°,δ30.00000°,λ-68.00000°. NP2:ϕ_s223.00000°,δ62.00000°,λ-102.00000°. Principal axes:
T 1.3200,Plg17.0000°,Azm322.0000°; N 0.0900,Plg11.0000°,Azm229.0000°
; P -1.4200,Plg70.0000°,Azm108.0000° $M_0$1.40000×10^{18}
ISC III 11 19 08 41.6–.40 36.31N–.03 140.94E–.04 28–2 5.3b 272 0-155
NIED III 11 19 08 00 36.30N 140.90E 26 5.3W **¶602443428**
BJI III 11 19 08 36.5 36.20N 141.00E 18 5.5b
NEIC III 11 19 08 38.7–2.3 36.26N 140.88E 9–14 5.5b
ISCJB III 11 19 08 40.6–.55 36.29N–.02 140.95E–.03 31–3 5.1b
MOS III 11 19 08 41.0–1.1 36.43N 140.95E 30 5.7b
JMA III 11 19 08 41.0 36.29N 140.95E 35–1 5.2
IDC III 11 19 08 42.7–.51 36.27N 140.80E 32–3 4.9,4.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ8.00000°,λ-77.00000°. NP2:ϕ_s201.00000°,δ82.00000°,λ-92.00000°. $M_0$8.64000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=135.0. Recorded [4 JMA] in Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.0km az=23.7.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=106.1.
JMA Event type fe.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=173.0.
JMA III 11 19 13 50.3 36.94N 140.73E 27–1 3.5
¶602653155
JMA Event type fe.
ISC III 11 19 16 17.4–1.4 37.27N–.05 141.17E–.10 30–7 3.9b 23 0-74
IDC III 11 19 16 09.2–1.2 36.61N 141.17E 0 4.9s,4.9 **¶17194046**
ISCJB III 11 19 16 16.3–1.0 37.23N–.04 141.25E–.08 32–4 5.0s,3.9b
JMA III 11 19 16 18.4–.10 37.31N 141.09E 29–1 4.0,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=25.7km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.9km az=17.8.
JMA Event type fe.
IDC III 11 19 19 43.6–1.1 39.03N 142.48E 0 3.9,3.8
¶17194048
IDC Error ellipse: s-maj=32.1km s-min=22.6km az=86.0.
JMA III 11 19 19 55.3–.20 37.22N 141.57E 46–3 3.8
¶603049471
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 19 22 14.8–.10 36.59N 141.18E 38–2 3.2
¶603049473
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 19 23 34.0–.73 38.33N–.08 141.90E–.08 35 4.2b 32 1-146
IDC III 11 19 23 25.6–.74 37.76N 141.85E 0 5.1,5.1s **¶16451964**
NEIC III 11 19 23 26.8–.47 37.73N 141.82E 10 4.3b,5.1s
ISCJB III 11 19 23 32.6–.56 38.40N–.05 141.95E–.07 35 4.2b,5.1s
JMA III 11 19 23 35.5–.10 38.34N 141.80E 50–2 4.2,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.9km az=83.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=9.7km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.4km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 19 24 10.9–.99 37.8N–.20 141.8E–.20 68 4.1b 12 26-146
IDC III 11 19 24 01.7–.97 37.83N 141.59E 0 4.4,4.1 **¶16476584**
ISCJB III 11 19 24 09.0–.89 37.8N–.20 141.6E–.20 68 3.9b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 19 24 29.2–.52 35.72N–.03 140.85E–.03 32–3 5.6b 1282 0-158
NIED III 11 19 24 00 35.80N 141.00E 38 5.8W **¶602653105**
BJI III 11 19 24 22.7 35.65N 141.19E 25 5.8s,5.7
NEIC III 11 19 24 24.5–1.3 35.69N 140.66E 2–8 5.5b,5.7
IDC III 11 19 24 24.1–.34 35.70N 140.85E 0 5.8,5.7s
ISCJB III 11 19 24 27.5–.08 35.63N–.02 140.75E–.02 33 5.8s,5.5b
MOS III 11 19 24 27.6–.92 35.74N 140.71E 31 5.8b,5.5b
JMA III 11 19 24 28.1–.10 35.76N 141.04E 35–1 5.7,5.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ12.00000°,λ128.00000°. NP2:ϕ_s16.00000°,δ80.00000°,λ82.00000°. $M_0$6.56000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=139.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=10.8km s-min=9.6km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=147.9.
MOS Error ellipse: s-maj=6.2km s-min=3.7km az=105.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 19 27 17.1–.10 35.72N 140.99E 36–1 3.7
¶602653097
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 19 28 00.0–.10 36.81N 141.04E 48–1 3.5
¶602653088
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 19 30 27.3–.53 36.04N–.08 141.95E–.08 23 4.6b 49 1-151
IDC III 11 19 30 23.9–.69 36.09N 141.93E 0 5.4,5.4s **¶602653077**
JMA III 11 19 30 25.7–.30 36.22N 141.93E 5–5 4.4,5.4s
ISCJB III 11 19 30 25.6–.39 36.06N–.06 141.96E–.07 23 5.3s,4.5b
NEIC III 11 19 30 28.5–.31 35.92N 141.90E 35 4.8b,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=19.6km s-min=13.1km az=173.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.0km az=136.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=8.1km az=192.0.
ISC III 11 19 31 38.8–.79 36.69N–.07 141.48E–.08 26 4.0b 24 1-147
IDC III 11 19 31 35.0–.96 36.72N 141.51E 0 4.3,4.0 **¶16308465**
ISCJB III 11 19 31 36.9–.64 36.63N–.06 141.57E–.07 26 3.9b,4.0
JMA III 11 19 31 41.1–.20 36.70N 141.34E 47–2 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=40.6km s-min=29.9km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=7.1km az=37.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 19 34 42.4–.10 37.00N 141.24E 38–1 3.5
¶602652620
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 19 35 53.7–.10 36.37N 141.02E 45–2 3.8
¶602652613
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 19 39 27.5–.30 36.46N 141.59E 19 3.5
¶602652600
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 19 40 16.8–.20 37.70N 141.76E 44–3 4.1
¶603049476
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 19 43 32.5–1.9 35.8N–.10 141.0E–.30 35 3.9b 11 0-148
IDC III 11 19 43 26.9–.73 36.42N 141.70E 0 4.1,3.8 **¶16476144**
NEIC III 11 19 43 26.2–.71 35.96N 141.73E 10 4.5b,3.8
JMA III 11 19 43 32.9–.30 35.72N 140.96E 32–2 3.2,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=18.7km az=117.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=13.0km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 19 45 21.4–.79 37.49N–.03 141.75E–.04 15–4 5.1b 754 1-155
IDC III 11 19 45 19.4–.40 37.50N 141.62E 0 6.0,6.0s **¶602652584**
NEIC III 11 19 45 21.8–1.9 37.56N 141.58E 12–12 5.2b,6.0s
BJI III 11 19 45 21.7 37.47N 141.60E 27 5.5b,5.3s
ISCJB III 11 19 45 22.6–.76 37.70N–.03 141.58E–.03 24–5 5.8s,5.0b
JMA III 11 19 45 22.4–.20 37.49N 141.67E 26–2 5.2,5.0b
MOS III 11 19 45 24.6–.90 37.87N 141.56E 33 5.3b,5.0b
ISC Event type ke.
IDC Error ellipse: s-maj=11.1km s-min=10.7km az=115.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=141.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.0km az=158.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.9km az=90.8.
ISC III 11 19 51 25.3–1.8 36.3N–.10 141.9E–.10 9 4.3b 10 1-75
IDC III 11 19 51 22.8–1.3 37.37N 143.24E 0 4.4,4.3 **¶17194061**
JMA III 11 19 51 26.0–.20 36.23N 141.83E 82 3.8,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=43.0km s-min=20.2km az=73.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 19 52 49.4–.50 36.07N–.04 141.29E–.06 26 4.4b 47 1-152
IDC III 11 19 52 45.5–.56 36.00N 141.29E 0 4.5,4.4 **¶602652570**
NEIC III 11 19 52 46.2–3.4 35.98N 141.29E 4–21 4.9b,4.4
ISCJB III 11 19 52 47.9–.40 36.07N–.03 141.35E–.05 26 4.5b,4.4
JMA III 11 19 52 48.9–.10 36.03N 141.26E 39–2 4.3,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.8km s-min=14.4km az=104.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=8.1km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=28.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 19 54 22.0–1.1 36.45N–.07 141.84E–.08 19 4.1b 16 1-75
ISCJB III 11 19 54 20.1–.92 36.47N–.07 141.99E–.07 19 4.0b **¶17194062**
IDC III 11 19 54 21.1–1.1 36.94N 141.88E 0 4.3L,4.2
JMA III 11 19 54 22.7–.20 36.45N 141.76E 76–4 3.7,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=8.2km az=150.5.
IDC Error ellipse: s-maj=30.9km s-min=26.3km az=28.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 19 58 49.1–.67 36.31N–.02 141.06E–.04 27–4 4.6b 110 0-147
IDC III 11 19 58 44.8–.60 36.22N 141.01E 0 4.6,4.5 **¶602652551**
JMA III 11 19 58 49.2–.10 36.26N 141.05E 43–1 4.8,4.5
ISCJB III 11 19 58 49.4–.49 36.26N–.02 141.07E–.04 45–3 4.5b,4.5
NEIC III 11 19 58 52.1–1.1 36.19N 141.00E 56–10 4.9b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=174.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.7km az=8.7.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.9km az=108.0.
JMA III 11 19 59 59.9–.20 36.77N 141.29E 42–2 3.7
¶602652550
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 20 01 39.1–.10 36.67N 141.05E 43–1 2.8
¶603049477

JMA III 11 20 01 55.0–.10 38.39N 141.83E 56–3 3.5
¶603049479
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 11 20 02 19.7–.10 37.19N 141.06E 28–1 2.8
¶603049478
ISC III 11 20 02 44.1–.86 38.3N–.20 142.8E–.10 23 3.8b 10 4-89
IDC III 11 20 02 40.5–.78 38.29N 142.81E 0 4.8L,4.1 **¶17194068**
ISCJB III 11 20 02 42.1–.73 38.3N–.10 142.7E–.10 23 3.9b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 20 04 46.9–1.1 39.48N 142.45E 0 4.1L,4.0
¶17194073
IDC Error ellipse: s-maj=33.7km s-min=20.7km az=89.0.
JMA III 11 20 05 47.7–.10 37.28N 141.08E 23–1 2.9
¶603049480
JMA Event type fe.
ISC III 11 20 07 00.5–.99 38.8N–.10 142.5E–.10 27 3.9b 23 3-88
IDC III 11 20 06 56.4–1.5 38.74N 142.49E 0 4.6L,4.1 **¶17194074**
ISCJB III 11 20 06 58.9–.89 38.8N–.10 142.4E–.10 27 4.0b,4.1
NEIC III 11 20 06 59.6–4.0 38.75N 142.45E 21–28 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=39.9km s-min=18.9km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=10.9km az=148.7.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=11.3km az=147.0.
JMA III 11 20 08 53.4–.30 35.88N 141.18E 19–3 3.0
¶603049481
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 20 09 34.4–.30 37.35N 141.75E 51 3.8
¶602652513
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 11 20 10 12.1–.10 37.44N 141.26E 27–1 4.1
¶602652507
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 20 11 23.5–.51 39.01N–.03 142.78E–.03 15–3 6.0s,6.0b 1810 2-161
NIED III 11 20 11 00 38.90N 142.80E 5 6.0W,6.0b **¶16308469**
BJI III 11 20 11 20.1 38.90N 142.70E 10 6.6b,6.3s
ISCJB III 11 20 11 21.3–.07 39.01N–.02 142.72E–.02 10 6.0s,5.9b
JMA III 11 20 11 21.3–.30 38.97N 142.76E 6–3 6.4,5.9b
GCMT III 11 20 11 24.1–.20 38.98N 142.68E 12 6.1W,5.9b
NEIC III 11 20 11 24.1–1.5 39.01N 142.63E 17–9 5.9b,5.8s
MOS III 11 20 11 25.4–.91 39.02N 142.65E 38 6.2s,6.1b
IDC III 11 20 11 28.1–1.5 39.02N 142.66E 48–14 5.9,5.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ41.00000°,λ-93.00000°. NP2:ϕ_s133.00000°,δ49.00000°,λ-87.00000°. $M_0$1.23000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.5km az=155.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c68; s127,c242; Duration: 2s8 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.93±.04 $M_{\theta\theta}$1.08±.04; $M_{\phi\phi}$0.85±.04; $M_{r\theta}$0.41±.14; $M_{\theta\phi}$-0.73±.03; $M_{\phi r}$0.03±.16; Best double couple: NP1:ϕ_s303.00000°,δ50.00000°,λ-100.00000°. NP2:ϕ_s138.00000°,δ41.00000°,λ-79.00000°. Principal axes: T 1.7240,Plg5.0000°,Azm40.0000°; N 0.2680,Plg7.0000°,Azm309.0000°; P -1.9900,Plg81.0000°,Azm161.0000° $M_0$1.85700×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=132.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=5.5km s-min=3.7km az=100.1.
IDC Error ellipse: s-maj=10.1km s-min=6.7km az=93.0.
JMA III 11 20 13 41.8–.10 36.89N 141.04E 49–1 3.5
¶602652493
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 20 19 21.5–1.0 39.0N–.20 142.5E–.20 27 4.2b 9 4-88
IDC III 11 20 19 17.3–.90 38.99N 142.59E 0 4.3,4.1 **¶17194078**
ISC Event type ke.
IDC Error ellipse: s-maj=37.2km s-min=22.0km az=96.0.
ISC III 11 20 22 40.4–.48 38.58N–.06 141.90E–.06 41 4.5b 74 1-146
ISCJB III 11 20 22 38.5–.34 38.61N–.04 141.98E–.05 41 4.5b **¶16461257**
JMA III 11 20 22 41.0–.10 38.57N 141.88E 50–2 4.6
NEIC III 11 20 22 42.4–.75 38.56N 141.90E 63–7 4.7b
IDC III 11 20 22 43.1–2.5 38.52N 141.78E 67–23 4.4,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=142.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.3km az=108.0.
IDC Error ellipse: s-maj=13.9km s-min=11.9km az=103.0.
ISC III 11 20 23 44.3–.36 35.84N–.03 141.66E–.03 29–2 5.5b 1125 1-154
NIED III 11 20 23 00 36.00N 141.90E 11 5.1W **¶16308470**
NEIC III 11 20 23 41.3–1.6 35.81N 141.61E 8–10 5.7s,5.5b
BJI III 11 20 23 42.2 35.85N 141.41E 16 5.9s,5.7
MOS III 11 20 23 43.8–.85 35.92N 141.65E 33 5.6b,5.7
ISCJB III 11 20 23 43.0–.72 35.82N–.02 141.65E–.02 29–5 5.8s,5.4b
JMA III 11 20 23 43.1–.40 35.96N 141.66E 10–5 5.4,5.4b
IDC III 11 20 23 44.7–.35 35.85N 141.65E 28–2 5.2,5.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ43.00000°,λ60.00000°. NP2:ϕ_s43.00000°,δ53.00000°,λ115.00000°. $M_0$5.04000×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=133.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=146.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=9.4km s-min=8.1km az=101.0.
ISC III 11 20 25 20.5–2.1 36.96N–.04 141.87E–.09 24–13 4.9b 48 1-118
ISCJB III 11 20 25 17.8–1.3 36.98N–.04 142.08E–.06 18–8 4.8b **¶16476150**
JMA III 11 20 25 21.1–.30 37.08N 141.89E 28–3 5.1
IDC III 11 20 25 23.7–3.6 36.93N 142.00E 52–29 4.8,4.6
NEIC III 11 20 25 24.3–1.7 36.90N 141.97E 59–13 5.2b,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.4km az=158.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=15.7km az=76.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=8.8km az=75.0.
JMA III 11 20 27 16.3–.30 37.65N 141.98E 28 4.8
¶16313891
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 11 20 28 17.8–.10 36.05N 141.09E 40–2 3.8
¶602652454
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 20 28 59.1–.10 38.70N 141.74E 52–2 4.4
¶602652453
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 11 20 29 45.2–.20 36.62N 141.70E 46–4 4.0
¶602652452
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 20 30 10.7–.10 39.21N 142.59E 25–1 3.9
¶602652449
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 20 34 14.5–.10 36.83N 141.09E 42–2 2.7
¶602652432
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 20 34 41.6–.32 37.00N–.03 141.16E–.04 36–1 5.1b 520 0-155
NIED III 11 20 34 00 37.00N 141.20E 47 5.0W **¶600540284**
BJI III 11 20 34 34.1 36.86N 141.47E 20 5.5s,5.3
MOS III 11 20 34 40.7–.97 37.02N 141.14E 43 5.3b,5.3
JMA III 11 20 34 41.8–.10 36.95N 141.22E 49–1 5.1,5.3
NEIC III 11 20 34 42.0–.24 37.00N 141.12E 37–2 5.1b,5.3
IDC III 11 20 34 42.9–1.7 36.96N 141.11E 50–16 5.0,4.7
ISCJB III 11 20 34 42.6–.32 37.04N–.02 141.08E–.03 55–2 5.1s,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ14.00000°,λ29.00000°. NP2:ϕ_s43.00000°,δ84.00000°,λ102.00000°. $M_0$4.07000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Nagano, Tochigi and Tokyo.
ISCJB Event type fe.
JMA III 11 20 37 59.1–.10 36.08N 141.23E 28–2 3.5
¶602652430
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 20 40 28.5–.10 37.35N 141.15E 11–1 3.2
¶603049486
JMA Event type fe.
JMA III 11 20 41 19.1–.10 36.07N 141.24E 27–2 3.3
¶603049485
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 20 42 40.5–.46 38.27N–.06 142.29E–.07 24 4.6b 51 1-145
NEIC III 11 20 42 38.6–.25 38.28N 142.26E 10 5.0b **¶602652412**
ISCJB III 11 20 42 38.7–.34 38.21N–.05 142.25E–.06 24 4.6b
JMA III 11 20 42 41.4–.20 38.46N 142.26E 34–4 5.0
IDC III 11 20 42 42.4–5.9 38.33N 142.23E 33–44 4.5,4.5
ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.6km az=104.0. Recorded [6L JMA] in Nagano.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.2km az=30.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=12.0km az=106.0.
JMA III 11 20 43 00.7–.10 36.68N 140.99E 43–1 3.6
¶16461349
JMA Event type fe.
ISC III 11 20 43 37.7–.95 38.3N–.10 142.3E–.20 24 4.5b 26 10-117
IDC III 11 20 43 34.3–.88 38.30N 142.25E 0 5.1,5.0s **¶16461350**
ISCJB III 11 20 43 35.6–.61 38.21N–.09 142.4E–.10 24 5.2s,4.6b
NEIC III 11 20 43 39.4–.49 38.28N 142.36E 35 4.9b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=18.7km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=12.6km az=1.4.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=10.5km az=97.0.
ISC III 11 20 46 06.7–.94 39.1N–.10 142.6E–.10 27 4.6b 28 9-81
IDC III 11 20 46 02.7–.95 39.10N 142.54E 0 4.6,4.5 **¶16313892**
ISCJB III 11 20 46 04.8–.77 39.1N–.10 142.6E–.10 27 4.5b,4.5
NEIC III 11 20 46 09.0–2.1 39.14N 142.57E 44–16 4.9b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=24.0km s-min=19.3km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=17.7km s-min=12.3km az=5.8.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=9.9km az=168.0.
ISC III 11 20 47 59.8–1.2 36.4N–.20 142.0E–.10 10 4.2b 15 1-84
IDC III 11 20 47 44.2–2.3 33.21N 141.38E 0 4.5,4.3 **¶602652402**
ISCJB III 11 20 47 58.4–.93 36.4N–.10 142.1E–.10 10 4.1b,4.3
JMA III 11 20 47 58.2–.40 36.32N 142.10E 8 4.4,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=62.1km s-min=23.0km az=7.0.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=7.9km az=142.3.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA III 11 20 49 13.5–.10 37.26N 141.09E 31–1 4.0
¶602652400
JMA Event type fe.
JMA III 11 20 50 16.8–.10 37.06N 141.51E 30–3 3.5
¶16476155
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 11 20 51 55.6–.10 36.39N 141.08E 19–1 3.7
¶603049490
JMA Event type fe.
ISC III 11 20 54 10.0–.62 39.02N–.07 142.98E–.09 16 4.3b 35 3-88
ISCJB III 11 20 54 07.9–.46 38.97N–.05 142.92E–.08 16 4.2b **¶16476619**
IDC III 11 20 54 07.3–.62 38.99N 142.95E 0 4.3,4.2
NEIC III 11 20 54 09.1–3.6 38.99N 142.96E 11–22 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.4km az=30.4.
IDC Error ellipse: s-maj=18.2km s-min=14.0km az=92.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.2km az=103.0.
JMA III 11 20 55 02.6–.10 36.32N 140.94E 44–1 3.6
¶603049491
JMA Event type fe.
ISC III 11 20 56 15.6–1.2 37.2N–.20 141.90E–.08 19 4.0b 13 1-90
IDC III 11 20 56 17.7–.81 38.11N 142.49E 0 4.4s,4.4 **¶602652376**
JMA III 11 20 56 22.2–.20 37.08N 141.51E 37–2 3.6,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=41.3km s-min=20.6km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 20 57 33.6–.10 36.60N 140.98E 47–1 3.7
¶602652369
JMA Event type fe.
ISC III 11 21 00 44.4–.46 39.10N–.04 142.56E–.04 19–1 5.3b,5.3s 836 2-165
IDC III 11 21 00 40.9–.56 39.00N 142.65E 0 5.0,4.9 **¶602652360**
JMA III 11 21 00 41.5–.30 39.02N 142.70E 12–2 5.5,4.9
BJI III 11 21 00 41.0 38.95N 142.79E 24 5.8b,5.4s
NEIC III 11 21 00 44.0–.68 39.00N 142.48E 17–4 5.4b,5.3s
ISCJB III 11 21 00 45.1–.10 39.07N–.02 142.56E–.02 33 5.3s,5.2b
MOS III 11 21 00 45.3–1.1 39.07N 142.49E 36 5.5b,5.2s
ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=12.0km az=154.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=146.0. Recorded [3 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=152.3.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=104.5.
JMA III 11 21 04 30.4–.10 36.61N 140.97E 45–1 3.8
¶603049492
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 21 08 45.6–.10 37.44N 141.32E 31–1 3.8
¶603049493
JMA Event type fe.
ISC III 11 21 09 28.4–.74 37.0N–.10 141.1E–.20 83 4.1b 21 0-90
IDC III 11 21 09 18.2–.80 36.99N 141.42E 0 4.4,4.1 **¶602652345**
JMA III 11 21 09 19.0–.10 36.05N 141.39E 47–2 4.4,4.1
NEIC III 11 21 09 24.5–2.0 36.98N 141.43E 43–17 4.2b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=21.6km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=14.1km az=105.0.
JMA III 11 21 10 07.5–.10 36.03N 141.10E 25–2 3.5
¶603049495
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 21 11 26.3–.59 38.87N–.10 142.7E–.10 27 4.2b 34 21-88
IDC III 11 21 11 22.1–.72 38.88N 142.74E 0 4.3,4.1 **¶17194099**
ISCJB III 11 21 11 24.4–.42 38.86N–.07 142.7E–.10 27 4.2b,4.1
NEIC III 11 21 11 27.4–.22 38.88N 142.73E 35 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=17.3km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=9.8km az=3.9.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=98.0.
ISC III 11 21 12 13.4–1.0 40.2N–.20 142.8E–.20 12 4.0b 7 45-72
IDC III 11 21 12 11.8–.98 40.17N 142.90E 0 4.1,3.8 **¶17194103**
ISCJB III 11 21 12 11.5–.82 40.1N–.10 142.9E–.30 12 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 21 14 35.6–1.0 37.2N–.10 141.4E–.10 33 3.9b 10 3-90
IDC III 11 21 14 30.6–1.0 37.09N 141.53E 0 4.0,3.9 **¶16476636**
ISCJB III 11 21 14 33.7–.82 37.0N–.10 141.5E–.20 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 21 16 25.4–.90 35.74N–.04 140.94E–.06 34–3 4.2b 71 0-148
NIED III 11 21 16 00 35.80N 141.10E 41 4.7W **¶16409241**
IDC III 11 21 16 19.9–.63 35.68N 140.92E 0 4.6s,4.6
NEIC III 11 21 16 23.4–1.4 35.67N 140.90E 21–10 4.2b,4.6

ISCJB III 11 21 16 24.9–.44 35.78N–.03 140.90E–.06 44–4 4.1b,4.6
JMA III 11 21 16 24.7–.20 35.76N 141.02E 33–1 4.2,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ11.00000°,λ166.00000°. NP2:ϕ_s358.00000°,δ87.00000°,λ79.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=19.1km s-min=14.0km az=74.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.2km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.8km az=171.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 21 18 52.8–.10 36.12N 140.90E 37–2 3.5
¶603049496
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 21 21 36.5–.57 39.50N–.06 142.62E–.08 29 4.2b 53 2-83
ISCJB III 11 21 21 34.9–.37 39.55N–.05 142.73E–.06 29 4.2b **¶602652323**
JMA III 11 21 21 35.8–.10 39.48N 142.59E 30–2 4.4
IDC III 11 21 21 38.8–2.5 39.56N 142.57E 47–25 4.1,4.0
NEIC III 11 21 21 40.6–.78 39.46N 142.62E 68–7 4.2b,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.3km az=137.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=123.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=134.0.
JMA III 11 21 23 25.5–.30 36.06N 141.43E 39–4 3.7
¶602652315
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 21 24 47.5–.60 38.5N–.10 142.0E–.10 41 4.1b 34 4-146
IDC III 11 21 24 42.0–.78 38.61N 142.03E 0 4.5L,4.2 **¶16442234**
ISCJB III 11 21 24 45.7–.42 38.52N–.08 141.95E–.09 41 4.1b,4.2
NEIC III 11 21 24 47.1–1.1 38.52N 141.99E 37–10 4.0b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=18.1km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=7.7km az=143.6.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.3km az=135.0.
ISC III 11 21 29 28.0–.72 39.13N–.09 142.40E–.09 27 4.3b 54 2-80
ISCJB III 11 21 29 26.1–.55 39.18N–.07 142.43E–.08 27 4.2b **¶16409243**
JMA III 11 21 29 28.3–.10 39.16N 142.35E 33–1 4.7
NEIC III 11 21 29 30.7–1.1 39.13N 142.30E 49–9 4.3b
IDC III 11 21 29 30.8–2.8 39.10N 142.30E 51–24 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.4km az=141.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.4km az=133.0.
IDC Error ellipse: s-maj=16.3km s-min=13.2km az=122.0.
ISC III 11 21 31 15.4–.52 38.99N–.09 142.66E–.09 27 4.3b 39 3-145
IDC III 11 21 31 11.0–.64 38.96N 142.67E 0 4.5,4.3 **¶16409247**
ISCJB III 11 21 31 13.4–.39 38.93N–.07 142.67E–.09 27 4.4b,4.3
NEIC III 11 21 31 16.4–1.2 38.97N 142.67E 35–11 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=16.4km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=9.1km az=41.4.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=151.0.
JMA III 11 21 32 47.7–.10 36.23N 141.07E 36–2 3.5
¶602652297
ISC III 11 21 34 20.8–.69 37.41N–.04 141.47E–.04 12–4 4.8b 262 0-155
NIED III 11 21 34 00 37.40N 141.30E 11 4.5W **¶602652788**
IDC III 11 21 34 19.1–.42 37.45N 141.35E 0 4.6,4.5
NEIC III 11 21 34 21.8–2.3 37.39N 141.30E 15–14 4.9b,4.5
ISCJB III 11 21 34 22.1–.61 37.40N–.03 141.30E–.04 27–4 4.7b,4.5
JMA III 11 21 34 22.2–.10 37.45N 141.31E 23–1 4.8,4.5
MOS III 11 21 34 23.0–1.0 37.78N 141.31E 23 5.0b,4.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ54.00000°,λ-37.00000°. NP2:ϕ_s259.00000°,δ61.00000°,λ-138.00000°. $M_0$7.48000×10^{15}
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.3km az=147.0. Recorded [4 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=33.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=6.1km az=89.9.
JMA III 11 21 45 54.1–.10 36.26N 141.03E 46–1 3.4
¶603049499
ISC III 11 21 48 40.9–1.0 35.86N–.04 140.91E–.06 12–6 4.2b 57 0-148
NIED III 11 21 48 00 35.90N 141.00E 5 4.5W **¶16425254**
IDC III 11 21 48 38.4–.75 35.72N 140.90E 0 4.4,4.2
ISCJB III 11 21 48 40.8–.63 35.86N–.04 140.92E–.05 20–4 4.2b,4.2
JMA III 11 21 48 40.2–.10 35.87N 140.96E 11–2 4.6,4.2
NEIC III 11 21 48 42.2–3.2 35.76N 140.84E 22–22 4.6,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ35.00000°,λ-84.00000°. NP2:ϕ_s357.00000°,δ55.00000°,λ-94.00000°. $M_0$6.34000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=19.9km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=7.0km az=144.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.4km s-min=7.7km az=156.0. Recorded [3 JMA] in Chiba.
JMA III 11 21 50 50.4 36.46N 140.71E 13–1 3.7
¶602652293
JMA Event type fe.
ISC III 11 21 51 52.0–.54 36.50N–.06 141.36E–.06 26 4.2b 41 1-147
ISCJB III 11 21 51 50.1–.39 36.45N–.05 141.45E–.05 26 4.1b **¶16425255**
JMA III 11 21 51 52.5–.10 36.47N 141.27E 42–2 4.0
IDC III 11 21 51 54.5–2.3 36.44N 141.25E 49–23 4.1L,4.0
NEIC III 11 21 51 55.3–1.6 36.45N 141.31E 54–14 4.1L,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.3km az=178.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.5km s-min=12.7km az=83.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.4km az=94.0.
ISC III 11 21 54 36.4–1.4 36.70N–.03 141.10E–.05 29–9 4.3b 77 0-85
JMA III 11 21 54 37.8–.10 36.69N 141.12E 43–1 4.2 **¶16425256**
IDC III 11 21 54 39.4–3.5 36.66N 141.04E 56–31 4.2,4.1L
NEIC III 11 21 54 39.3–.94 36.68N 141.08E 55–8 4.2,4.1L
ISC Event type se.
JMA Event type fe.
IDC Error ellipse: s-maj=19.0km s-min=14.4km az=78.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.7km az=51.0.
ISC III 11 21 55 55.8–1.2 36.98N–.04 140.83E–.07 17–6 3.9b 21 0-69
IDC III 11 21 55 43.5–1.4 37.18N 142.78E 0 4.0,3.8 **¶16476650**
ISCJB III 11 21 55 54.6–1.2 36.93N–.04 140.98E–.08 17–6 3.8b,3.8
JMA III 11 21 55 56.0 36.98N 140.85E 14–1 4.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=31.8km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=6.2km az=21.6.
JMA Event type fe.
ISC III 11 21 59 26.9–.68 38.58N–.09 141.32E–.09 35 4.2b 27 3-88
ISCJB III 11 21 59 25.0–.52 38.57N–.07 141.3E–.10 35 4.1b **¶16442273**
IDC III 11 21 59 27.7–2.9 38.56N 141.32E 46–28 4.0,4.0
NEIC III 11 21 59 28.6–1.2 38.57N 141.31E 53–11 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=9.2km az=33.1.
IDC Error ellipse: s-maj=25.3km s-min=17.4km az=119.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=7.7km az=124.0.
ISC III 11 22 04 07.9–.48 38.24N–.06 142.24E–.06 24 4.5b 53 2-150
IDC III 11 22 04 04.0–.55 38.25N 142.26E 0 4.3,4.2 **¶602652280**
ISCJB III 11 22 04 05.8–.38 38.25N–.06 142.37E–.06 24 4.3b,4.2
JMA III 11 22 04 08.4–.20 38.43N 142.28E 38–4 4.4,4.2
NEIC III 11 22 04 13.1–1.7 38.28N 142.25E 69–15 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=15.8km s-min=13.3km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=6.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.3km az=71.0.
JMA III 11 22 06 50.7–.20 37.12N 141.73E 41–3 3.9
¶603049503
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 22 09 11.2–.10 36.83N 141.16E 46–1 3.7
¶602442255
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 22 12 22.2–.20 36.88N 141.11E 48–2 3.1
¶603049504
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 22 13 26.8 36.81N 140.58E 8–1 2.3
¶602652250
ISC III 11 22 14 34.4–.63 36.45N–.08 141.40E–.07 26 4.2b 34 1-90
IDC III 11 22 14 30.1–.90 36.44N 141.49E 0 4.2,4.0 **¶16425267**
ISCJB III 11 22 14 32.6–.46 36.46N–.06 141.49E–.05 26 4.1b,4.0
JMA III 11 22 14 34.8–.10 36.49N 141.32E 45–2 4.1,4.0
NEIC III 11 22 14 37.8–1.1 36.43N 141.37E 56–9 4.1,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=19.7km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=160.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.9km az=117.0.
ISC III 11 22 18 34.6–2.0 36.68N–.05 141.65E–.06 6–11 4.6b 89 1-151
IDC III 11 22 18 33.4–.52 36.66N 141.65E 0 4.5,4.4 **¶17194130**
ISCJB III 11 22 18 35.0–.97 36.70N–.03 141.72E–.05 20–6 4.6b,4.4
JMA III 11 22 18 37.4–.30 36.73N 141.55E 35–3 4.6,4.4
NEIC III 11 22 18 39.2–.93 36.63N 141.64E 40–8 4.6,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.5km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.1km az=20.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.0km az=89.0.
ISC III 11 22 19 36.6–.61 36.4N–.10 141.7E–.10 26 4.7b 56 1-151
IDC III 11 22 19 32.5–.59 36.40N 141.71E 0 4.6,4.5 **¶16425275**
ISCJB III 11 22 19 34.9–.44 36.36N–.08 141.72E–.08 26 4.5b,4.2s
NEIC III 11 22 19 39.5–2.4 36.42N 141.69E 49–21 4.5b,4.2s
JMA III 11 22 19 46.1–.30 37.26N 142.29E 14 4.8,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.0km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=9.4km az=171.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.2km az=151.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 11 22 26 04.0–.20 37.16N 141.41E 49–2 3.6
¶602652226
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 22 27 21.6–1.7 40.4N–.20 142.9E–.20 12 3.7b 7 5-61
IDC III 11 22 27 25.9–1.5 41.37N 142.68E 0 3.8,3.6 **¶17194131**
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=28.0km az=83.0.
JMA III 11 22 27 37.6–.10 36.31N 140.87E 30–1 2.8
¶603049505
ISC III 11 22 29 41.4–.50 38.22N–.08 142.77E–.07 24 4.5b 108 2-149
ISCJB III 11 22 29 40.7–.25 38.40N–.05 142.66E–.05 24 4.5b **¶16374378**
NEIC III 11 22 29 44.7–.54 38.37N 142.68E 45–5 4.6b
IDC III 11 22 29 46.2–2.1 38.33N 142.65E 62–19 4.3,4.2
JMA III 11 22 29 55.8–.20 36.40N 141.46E 50–4 3.1,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.3km az=149.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.3km az=148.0.
IDC Error ellipse: s-maj=13.9km s-min=11.6km az=138.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 22 31 35.0–.10 36.81N 140.55E 9–3 2.6
¶603049506
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 22 34 05.5–.20 36.28N 141.54E 67 3.2
¶603049507
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 22 36 12.1–.42 35.85N–.05 141.11E–.06 31 4.5b 80 0-152
NIED III 11 22 36 00 35.90N 141.10E 8 4.4W **¶17194135**
IDC III 11 22 36 07.3–.50 35.84N 141.14E 0 4.5,4.4
NEIC III 11 22 36 08.5–2.5 35.81N 141.14E 8–15 4.5,4.4
JMA III 11 22 36 09.9–.20 35.90N 141.14E 25–2 4.4,4.4
ISCJB III 11 22 36 10.3–.31 35.85N–.04 141.16E–.05 31 4.5b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ23.00000°,λ-9.00000°. NP2:ϕ_s333.00000°,δ86.00000°,λ-112.00000°. $M_0$4.77000×10^{15}
NEIC Event type fe. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe.
ISCJB Event type fe.
ISC III 11 22 46 38.7–.60 39.6N–.10 142.82E–.10 18 4.4b 53 5-144
ISCJB III 11 22 46 37.2–.40 39.61N–.07 142.77E–.08 18 4.3b **¶16425280**
NEIC III 11 22 46 42.3–.79 39.55N 142.78E 47–7 4.3b
IDC III 11 22 46 42.2–3.5 39.54N 142.75E 45–33 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.2km az=144.5.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=145.0.
IDC Error ellipse: s-maj=24.5km s-min=15.1km az=120.0.
JMA III 11 22 47 35.1–.40 36.39N 141.84E 48 3.9
¶602652193
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 11 22 48 36.5–.20 39.61N 142.54E 38–3 4.0
¶602652192
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 11 22 49 14.8–.10 35.87N 140.97E 12–1 3.8
¶602652188
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 22 54 02.9–.10 37.44N 141.42E 26–2 3.6
¶602652181
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 22 59 43.3–1.4 35.64N–.06 140.97E–.10 32–8 3.8b 21 0-75
IDC III 11 22 59 36.4–1.0 35.23N 141.05E 0 4.0,3.9b **¶602652162**
ISCJB III 11 22 59 41.3–1.2 35.66N–.05 141.15E–.09 32–6 3.9b,3.9b
NEIC III 11 22 59 41.7–.57 35.24N 141.00E 35 3.9b,3.9b
JMA III 11 22 59 42.2–.20 35.61N 141.07E 32–1 3.6,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=22.3km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=8.7km az=10.7.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=11.3km az=215.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 23 03 10.0–1.6 36.8N–.20 141.8E–.10 19 3.8b 7 1-75
ISCJB III 11 23 03 08.7–1.2 36.8N–.10 141.96E–.10 19 3.8b **¶17194145**
JMA III 11 23 03 10.7–.20 36.77N 141.81E 37 4.0
IDC III 11 23 03 10.2–1.2 37.51N 141.81E 0 4.0,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=11.1km az=5.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=26.2km az=64.0.
ISC III 11 23 05 11.8–.45 39.61N–.04 142.13E–.05 52–3 4.8b,4.4s 430 2-151
NIED III 11 23 05 00 39.60N 142.10E 53 5.1W,4.4s **¶17194147**
JMA III 11 23 05 10.7–.10 39.62N 142.15E 47–1 4.9,4.4s
ISCJB III 11 23 05 12.0–.37 39.63N–.02 141.96E–.03 60–3 4.8b,4.3s
MOS III 11 23 05 11.3–.94 39.76N 141.93E 51 5.2b,4.3s
IDC III 11 23 05 13.7–1.5 39.57N 142.02E 69–13 4.7,4.5
NEIC III 11 23 05 14.2–.45 39.65N 141.87E 66–4 4.9b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ19.00000°,λ106.00000°. NP2:ϕ_s11.00000°,δ72.00000°,λ85.00000°. $M_0$4.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=31.5.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=93.1.
IDC Error ellipse: s-maj=10.3km s-min=8.5km az=110.0.

NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=153.0. Recorded [3 JMA] in Aomori.
JMA III 11 23 05 14.1–.30 36.15N 141.92E 25–4 4.0 ¶602652161
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 11 23 08 24.7–.20 38.49N 142.17E 31–4 4.2 ¶603229650
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 11 23 09 35.7–.82 38.2N–.10 142.53E–.08 14 4.0b 31 2-80
IDC III 11 23 09 33.5–1.8 38.21N 142.50E 0 4.1,4.0 **¶602652150**
ISCJB III 11 23 09 34.1–.55 38.22N–.08 142.51E–.07 14 4.0b,4.0
NEIC III 11 23 09 38.6–.41 38.17N 142.48E 35 4.0b,4.0
JMA III 11 23 09 44.0–.10 39.24N 142.35E 36–2 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=45.1km s-min=20.6km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.6km az=161.6.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=4.8km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 23 09 46.8–.71 36.49N–.06 141.68E–.09 26 4.4b 34 1-148
NIED III 11 23 09 00 36.70N 141.90E 20 4.5W **¶600540515**
IDC III 11 23 09 44.6–.82 36.44N 141.10E 0 4.3,4.2
ISCJB III 11 23 09 44.7–.69 36.44N–.04 141.7E–.10 26 4.2b,4.2
JMA III 11 23 09 45.2–.30 36.73N 141.89E 6–4 4.6,4.2
NEIC III 11 23 09 50.2–1.3 36.37N 140.95E 37–12 4.6,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ23.00000°,λ133.00000°. NP2:ϕ_s3.00000°,δ74.00000°,λ74.00000°. $M_0$6.47000×10^{15}
IDC Error ellipse: s-maj=28.5km s-min=16.5km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=4.9km az=166.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=12.7km az=83.0.
JMA III 11 23 10 49.1–.30 39.61N 142.69E 26–5 4.3 ¶603049513
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 11 23 12 37.2–.89 36.73N–.03 140.56E–.03 10–5 4.4b 64 0-147
IDC III 11 23 12 35.5–.61 36.68N 140.49E 0 4.6,4.4 **¶16425286**
ISCJB III 11 23 12 37.1–.48 36.71N–.03 140.67E–.04 18–3 4.4b,4.4
JMA III 11 23 12 37.4 36.74N 140.62E 5–2 4.6,4.4
NEIC III 11 23 12 43.2–1.1 36.64N 140.49E 58–9 4.6,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.7km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.3km az=31.6.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.5km az=141.0.
ISC III 11 23 15 51.9–.97 36.74N–.02 140.50E–.03 8–6 4.1b 49 0-91
IDC III 11 23 15 50.6–.74 36.74N 140.50E 0 4.2,4.0 **¶602652143**
ISCJB III 11 23 15 51.9–.48 36.72N–.02 140.67E–.04 18–3 4.0b,4.0
JMA III 11 23 15 52.3 36.74N 140.62E 6–1 4.0,4.0
NEIC III 11 23 15 56.9–.81 36.72N 140.44E 44–6 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=18.4km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=22.7.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.3km az=141.0.
IDC III 11 23 18 29.6–7.5 37.30N 141.13E 0 4.2b,4.1 ¶17194156
IDC Error ellipse: s-maj=179.3km s-min=34.0km az=143.0.
JMA III 11 23 24 22.8 36.74N 140.62E 6 2.0 ¶602652126
JMA III 11 23 25 49.4–.30 37.74N 141.60E 42 3.4 ¶603049514
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 11 23 26 26.0–1.4 36.27N–.05 141.64E–.08 32–7 4.4b 52 1-118
IDC III 11 23 26 20.1–2.5 37.42N 143.69E 0 4.4,4.3 **¶17194157**
NEIC III 11 23 26 27.8–1.9 37.64N 143.74E 43–15 4.4,4.3
JMA III 11 23 26 34.1–.10 36.26N 141.10E 41–1 4.4,4.3
ISC Event type se.
IDC Error ellipse: s-maj=67.7km s-min=26.4km az=159.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=7.6km az=148.0.
JMA Event type fe.
ISC III 11 23 26 50.4–.56 39.08N–.03 142.81E–.03 33–3 5.2b,4.8s 834 2-165
NIED III 11 23 26 00 38.90N 142.90E 8 5.2W,4.8s **¶17194159**
IDC III 11 23 26 45.1–.35 39.02N 142.63E 0 4.9,4.9
BJI III 11 23 26 46.4 39.17N 143.04E 28 5.5b,5.1s
JMA III 11 23 26 46.7–.30 39.01N 142.69E 13–3 5.3,5.1s
ISCJB III 11 23 26 47.5–.85 39.13N–.02 142.70E–.02 19–5 5.1b,4.8s
MOS III 11 23 26 48.5–1.1 39.07N 142.59E 31 5.4b,4.6s
NEIC III 11 23 26 49.7–.65 39.05N 142.62E 24–4 5.3b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ42.00000°,λ-102.00000°. NP2:ϕ_s129.00000°,δ49.00000°,λ-80.00000°. $M_0$6.89000×10^{16}
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=145.8.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=87.8.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=137.0.
JMA III 11 23 28 17.1–.10 36.80N 140.96E 50–1 3.5
NIED III 11 23 28 00 36.80N 141.00E 44 5.0W **¶603049515**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ41.00000°,λ4.00000°. NP2:ϕ_s178.00000°,δ88.00000°,λ131.00000°. $M_0$3.72000×10^{16}
ISC III 11 23 33 16.6–.62 36.00N–.06 141.38E–.08 26 4.2b 36 1-147
NIED III 11 23 33 00 36.00N 141.40E 5 4.6W **¶16425294**
IDC III 11 23 33 12.4–.69 35.96N 141.40E 0 4.4,4.3
ISCJB III 11 23 33 15.0–.44 36.01N–.05 141.48E–.06 26 4.2b,4.3
JMA III 11 23 33 16.7–.20 36.03N 141.45E 34–3 4.1,4.3
NEIC III 11 23 33 17.8–.33 35.99N 141.36E 35 4.1,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ15.00000°,λ84.00000°. NP2:ϕ_s65.00000°,δ75.00000°,λ92.00000°. $M_0$8.60000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=17.8km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.8km az=154.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.5km az=169.0.
JMA III 11 23 35 44.9–.60 39.54N 142.67E 13 3.8 ¶603049517
JMA Error ellipse: s-maj=4.4km s-min=3.4km az=-1.0.
JMA III 11 23 36 18.2–.30 35.90N 141.21E 21–2 3.5 ¶16425295
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 23 43 24.0–.20 36.52N 141.59E 34 3.3 ¶603049518
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 23 43 44.9–.20 39.14N 142.41E 38–3 4.3 ¶603049519
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 23 50 11.1–1.7 38.27N–.06 141.8E–.10 55–14 4.1b 61 1-146
IDC III 11 23 50 03.6–.73 38.31N 141.78E 0 4.2,4.1 **¶16425298**
JMA III 11 23 50 10.8–.10 38.29N 141.76E 50–2 4.1,4.1
ISCJB III 11 23 50 10.1–.93 38.27N–.05 141.80E–.09 62–6 4.1b,4.1
NEIC III 11 23 50 11.5–1.3 38.22N 141.65E 60–10 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=16.7km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=7.7km az=1.9.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.0km az=102.0.
JMA III 11 23 50 41.9–.10 38.00N 141.68E 37–3 4.1 ¶603049521
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 23 53 29.1–1.1 38.85N–.05 142.62E–.05 30–7 5.0b,5.0s 549 2-155
BJI III 11 23 53 25.8 38.79N 142.61E 24 5.3b,5.2s **¶17194161**
ISCJB III 11 23 53 27.8–1.3 38.83N–.03 142.60E–.03 31–8 5.0s,5.0b
JMA III 11 23 53 27.5–.30 38.95N 142.59E 37 5.1,5.0b
MOS III 11 23 53 28.2–.90 38.91N 142.55E 33 5.3b,5.0b
NEIC III 11 23 53 29.3–.38 38.86N 142.53E 29–2 5.1b,5.0b
IDC III 11 23 53 31.1–2.1 38.83N 142.66E 48–20 4.8,4.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.3km az=158.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.9km az=80.8.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=145.0.
IDC Error ellipse: s-maj=12.3km s-min=10.8km az=112.0.
ISC III 11 23 54 43.6–.44 37.42N–.05 141.87E–.05 24 5.0b 85 1-157
NIED III 11 23 54 00 37.40N 141.80E 47 4.8W **¶16425306**
IDC III 11 23 54 40.0–.48 37.39N 141.93E 0 5.0,5.0b
ISCJB III 11 23 54 41.7–.28 37.40N–.04 141.99E–.04 24 4.8b,5.0b
NEIC III 11 23 54 45.5–.90 37.44N 141.82E 36–8 4.7b,5.0b
JMA III 11 23 54 45.6–.20 37.43N 141.88E 40 5.0,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ24.00000°,λ-23.00000°. NP2:ϕ_s297.00000°,δ81.00000°,λ-112.00000°. $M_0$1.90000×10^{16}
IDC Error ellipse: s-maj=13.6km s-min=11.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.6km az=147.9.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=5.9km az=132.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 23 59 20.6–.39 36.52N–.03 141.52E–.03 22–2 5.3b,5.1s 497 1-155
NIED III 11 23 59 00 36.50N 141.50E 5 5.4W,5.1s **¶16310141**
IDC III 11 23 59 16.7–.43 36.51N 141.64E 0 5.4L,5.0
BJI III 11 23 59 18.7 36.33N 141.55E 26 5.6s,5.5b
ISCJB III 11 23 59 19.6–.62 36.47N–.02 141.60E–.02 27–4 5.2b,5.1s
MOS III 11 23 59 20.4–.99 36.50N 141.59E 33 5.5b,5.2s
JMA III 11 23 59 21.3–.30 36.50N 141.48E 28–5 5.5,5.2s
NEIC III 11 23 59 21.1–.19 36.53N 141.51E 22–1 5.4b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ24.00000°,λ64.00000°. NP2:ϕ_s2.00000°,δ69.00000°,λ101.00000°. $M_0$1.35000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=10.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=158.5.
MOS Error ellipse: s-maj=8.9km s-min=6.0km az=92.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=140.0. Recorded [3 JMA] in Fukushima.
JMA III 12 00 00 56.2–.20 36.56N 141.73E 65–4 4.5 ¶602656757
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 00 08 45.4–1.7 36.88N–.06 141.2E–.10 35 14 0-42
IDC III 12 00 08 39.4–4.4 37.03N 141.49E 0 4.3,4.3 **¶17194173**
ISCJB III 12 00 08 44.2–1.3 36.86N–.06 141.3E–.10 35 3.8b,4.3
JMA III 12 00 08 45.7–.10 36.87N 141.13E 47–1 4.0,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=79.6km s-min=34.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=8.2km az=174.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 00 10 19.7–.89 39.0N–.10 142.42E–.08 27 4.1b 20 2-76
IDC III 12 00 10 15.6–.86 39.03N 142.38E 0 4.2,4.0 **¶17194176**
ISCJB III 12 00 10 17.7–.63 39.00N–.10 142.57E–.07 27 4.0b,4.0
JMA III 12 00 10 20.5–.10 39.20N 142.34E 29–2 4.6,4.0
NEIC III 12 00 10 22.3–1.4 39.07N 142.43E 48–12 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=20.2km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=6.4km az=156.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.5km az=135.0.
JMA III 12 00 11 19.6–.10 36.25N 140.95E 40–1 3.7 ¶603049525
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 00 12 10.4–.40 38.28N 142.29E 36 3.9
IDC III 12 00 11 53.1–6.7 35.97N 142.42E 0 4.0,3.9 **¶602656735**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=258.1km s-min=27.5km az=68.0.
JMA III 12 00 12 18.1 37.20N 141.26E 15–1 3.5 ¶602656731
JMA Event type fe.
JMA III 12 00 12 44.3–.10 36.69N 141.04E 44–2 3.7 ¶17194177
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 12 00 19 59.6–9.1 35.34N 140.38E 0 4.2,4.0 ¶17194179
IDC Error ellipse: s-maj=374.3km s-min=25.5km az=67.0.
ISC III 12 00 23 34.9–.00 36.1N–.20 141.88E–.09 23 4.0b 24 1-147
JMA III 12 00 23 32.6–.30 36.15N 141.98E 57 4.1 **¶16442333**
IDC III 12 00 23 32.2–2.4 36.23N 141.91E 0 4.3,4.3s
ISCJB III 12 00 23 33.9–.71 36.2N–.10 141.89E–.07 23 4.2s,4.0b
NEIC III 12 00 23 36.8–1.1 36.06N 141.89E 35 4.1b,4.0b
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=72.6km s-min=22.8km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=6.0km az=159.6.
NEIC Event type se. Error ellipse: s-maj=33.2km s-min=8.1km az=174.0.
JMA III 12 00 24 46.6 36.72N 140.63E 8–2 3.2 ¶603049528
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 00 25 06.2–.36 37.71N–.04 141.99E–.04 25–2 5.0b,4.6s 759 1-155
NIED III 12 00 25 00 37.70N 142.00E 35 4.9W,4.6s **¶17194182**
IDC III 12 00 25 02.8–.42 37.76N 141.95E 0 4.9,4.8
BJI III 12 00 25 02.9 37.67N 142.16E 29 5.5b,5.1b
JMA III 12 00 25 05.2–.20 37.77N 141.98E 23–4 4.8,5.1b
MOS III 12 00 25 05.7–1.1 37.83N 142.03E 33 5.1b,5.1b
ISCJB III 12 00 25 06.4–.91 37.79N–.03 141.87E–.03 32–6 4.9b,4.8s
NEIC III 12 00 25 07.8–.35 37.76N 141.89E 31–2 5.0b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ40.00000°,λ-110.00000°. NP2:ϕ_s180.00000°,δ53.00000°,λ-74.00000°. $M_0$2.17000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.4km az=92.4.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=155.2.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=143.0. Recorded [3 JMA] in Miyagi.
ISC III 12 00 28 39.8–.71 36.41N–.09 141.83E–.06 19 4.3b 29 1-147
ISCJB III 12 00 28 38.8–.52 36.55N–.06 141.88E–.06 19 4.2b **¶16442290**
JMA III 12 00 28 39.5–.20 36.35N 141.82E 79–4 3.8
NEIC III 12 00 28 45.8–1.1 36.72N 141.73E 56–9 4.5b
IDC III 12 00 28 46.7–2.8 36.75N 141.68E 63–24 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.3km az=154.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.2km az=147.0.
IDC Error ellipse: s-maj=18.3km s-min=17.2km az=136.0.
ISC III 12 00 34 55.7–1.4 36.47N–.08 141.3E–.10 26 4.1b 11 1-69
JMA III 12 00 34 53.5–.20 36.55N 141.57E 43 3.4 **¶17194189**
IDC III 12 00 34 55.9–8.4 37.31N 141.31E 0 4.1,4.1
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=159.1km s-min=46.7km az=136.0.
ISC III 12 00 35 58.0–1.2 36.8N–.10 141.7E–.10 35 4.0b 9 1-90
IDC III 12 00 35 53.2–1.3 36.94N 142.21E 0 4.3,4.0 **¶16476728**
JMA III 12 00 36 00.4–.20 36.66N 141.47E 26–3 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=36.5km s-min=31.7km az=82.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 00 36 04.0–.76 39.47N–.10 142.81E–.08 18 4.2b 34 2-144

IDC III 12 00 36 01.1–.90 39.43N 142.85E 0 4.3,4.1 ¶602656916
ISCJB III 12 00 36 02.4–.58 39.48N–.07 142.84E–.09 18 4.1b,4.1
JMA III 12 00 36 03.0–.30 39.55N 142.84E 9 4.4,4.1
NEIC III 12 00 36 06.6–.41 39.49N 142.84E 35 4.2b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=16.5km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=9.8km az=179.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.1km az=155.0.
ISC III 12 00 37 46.9–1.5 36.67N–.08 141.3E–.10 26 3.9b 11 1-57
IDC III 12 00 37 41.7–2.4 36.73N 141.65E 0 4.0,3.9 ¶602656912
ISCJB III 12 00 37 44.9–1.2 36.62N–.07 141.4E–.10 26 3.8b,3.9
JMA III 12 00 37 49.0–.10 36.67N 141.08E 43–2 3.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=64.1km s-min=27.4km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=9.3km az=160.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 00 38 25.7–.10 36.44N 141.77E 68–4 3.5
¶17194192
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 00 40 34.2–.44 38.32N–.06 142.29E–.06 24 4.8b 90 2-145
IDC III 12 00 40 30.8–.50 38.36N 142.28E 0 5.0,4.8 ¶16308499
NEIC III 12 00 40 32.8–2.2 38.33N 142.27E 13–13 4.8b,4.8
ISCJB III 12 00 40 32.4–.29 38.25N–.05 142.37E–.05 24 4.8b,4.3s
JMA III 12 00 40 35.8–.30 38.46N 142.32E 37 5.0,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=12.2km az=124.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.2km az=165.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 12 00 41 53.6–.20 36.99N 141.19E 48–1 3.6
¶602656908
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 00 42 47.9–.10 36.58N 141.29E 45–3 3.6
¶602656905
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 00 43 09.2–.65 39.59N–.07 142.94E–.08 18 4.5b 50 2-88
IDC III 12 00 43 05.8–.68 39.47N 142.86E 0 4.6,4.5b ¶602656903
JMA III 12 00 43 07.5–.30 39.55N 142.84E 14–4 4.7,4.5b
ISCJB III 12 00 43 07.3–.46 39.56N–.05 142.93E–.07 18 4.4b,4.5b
NEIC III 12 00 43 13.5–.69 39.53N 142.86E 55–5 4.6b,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=14.9km az=180.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=44.7.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=138.0.
ISC III 12 00 45 08.7–.39 36.13N–.03 141.86E–.04 20–1 5.5b,5.2s 1028 1-165
NIED III 12 00 45 00 36.20N 142.00E 17 5.3W,5.2s ¶602656899
IDC III 12 00 45 05.9–.33 36.14N 141.88E 0 5.1,5.0
ISCJB III 12 00 45 06.2–.94 36.16N–.02 141.77E–.02 10–5 5.4b,5.3s
JMA III 12 00 45 07.4–.30 36.16N 141.93E 20 5.6,5.3s
MOS III 12 00 45 08.8–.86 36.24N 141.87E 33 5.6b,5.1s
BJI III 12 00 45 09.1 36.14N 141.53E 24 5.4b,5.4s
NEIC III 12 00 45 09.2–.29 36.11N 141.77E 20–1 5.5b,5.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ56.00000°,λ-7.00000°. NP2:ϕ_s283.00000°,δ84.00000°,λ-146.00000°. $M_0$1.03000×10^{17}
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=145.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=6.1km az=113.3.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.2km az=141.0.
JMA III 12 00 45 09.0–.10 36.95N 141.04E 52–1 3.8
¶602447858
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 00 47 07.5–.20 37.27N 141.64E 45–5 3.5
¶602656897
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 12 00 47 45.6–.10 38.52N 142.03E 24–2 4.2
¶602656891
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 00 52 23.9–.30 37.75N 141.91E 28 3.9
¶602656875
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 12 00 53 53.4–3.2 38.14N 142.80E 0 3.8,3.6
¶17194195
IDC Error ellipse: s-maj=70.9km s-min=31.0km az=155.0.
JMA III 12 00 57 17.9–.20 36.86N 141.15E 47–1 3.6
¶602656871
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 00 57 28.5–.46 35.92N–.05 141.95E–.06 23 4.2b 66 1-151
JMA III 12 00 57 26.6–.30 36.12N 142.00E 17 4.7 ¶600540647
NEIC III 12 00 57 26.7–2.3 35.89N 141.92E 12–14 4.3b
ISCJB III 12 00 57 26.5–.36 35.91N–.04 141.96E–.05 23 4.2b
IDC III 12 00 57 28.5–.66 35.93N 141.94E 22–3 4.2,4.2
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.4km az=34.6.
IDC Error ellipse: s-maj=12.9km s-min=11.3km az=106.0.
JMA III 12 00 58 51.9–.30 36.97N 141.84E 15–3 4.1
¶602656864
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 00 58 57.5–.10 39.14N 142.35E 31–1 4.2
¶602656863
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 01 00 33.7–1.3 36.13N–.07 141.2E–.10 26 4.2b 13 0-75
IDC III 12 01 00 26.6–2.1 36.41N 142.44E 0 4.2,4.1 ¶600540662
ISCJB III 12 01 00 32.2–1.0 36.05N–.06 141.33E–.09 26 4.1b,4.1
JMA III 12 01 00 35.7–.10 36.01N 141.05E 33–2 4.1,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=86.5km s-min=21.9km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.9km az=160.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 01 02 36.4–.74 35.61N–.06 141.05E–.08 38–2 4.2b 42 0-91
NIED III 12 01 02 00 35.80N 141.10E 32 4.3W ¶16442313
IDC III 12 01 02 31.2–.67 35.61N 140.99E 0 4.2,4.1b
NEIC III 12 01 02 34.1–3.0 35.61N 141.07E 22–22 4.7b,4.1b
ISCJB III 12 01 02 34.4–.64 35.55N–.04 141.02E–.07 39–5 4.2b,3.9s
JMA III 12 01 02 35.8–.20 35.73N 141.06E 34–1 3.6,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ53.00000°,λ-12.00000°. NP2:ϕ_s261.00000°,δ81.00000°,λ-142.00000°. $M_0$3.22000×10^{15}
IDC Error ellipse: s-maj=20.9km s-min=15.0km az=88.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.8km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.6km az=178.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 01 04 02.1–.46 37.87N–.04 141.63E–.04 63–4 4.9b 750 1-156
BJI III 12 01 03 53.1 37.68N 141.96E 26 5.5b,4.9b ¶16308501
MOS III 12 01 03 57.7–.93 37.91N 141.45E 33 5.2b,4.9b
NEIC III 12 01 03 58.7–1.3 37.82N 141.39E 30–9 5.0b,4.9b
NIED III 12 01 04 00 37.90N 141.50E 56 4.7W,4.9b
ISCJB III 12 01 04 02.3–.33 37.91N–.03 141.43E–.03 69–3 4.8b,4.9b
IDC III 12 01 04 03.0–.53 37.92N 141.52E 69–4 4.8,4.6
JMA III 12 01 04 02.4–.10 37.90N 141.52E 58–2 4.8,4.6
ISC Event type se.
MOS Error ellipse: s-maj=7.6km s-min=4.7km az=84.4.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=148.0. Recorded [3 JMA] in Fukushima and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ127.00000°. NP2:ϕ_s183.00000°,δ58.00000°,λ62.00000°. $M_0$1.32000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=160.6.
IDC Error ellipse: s-maj=10.9km s-min=9.4km az=131.0.
JMA Event type fe.
ISC III 12 01 07 50.6–1.1 36.79N–.04 141.19E–.07 42–9 4.2b 58 0-145
IDC III 12 01 07 44.8–.93 36.90N 141.25E 0 4.4L,4.1 ¶16442314
NEIC III 12 01 07 47.7–2.5 36.88N 141.40E 24–18 4.4b,4.1
ISCJB III 12 01 07 49.6–.61 36.76N–.03 141.20E–.05 51–4 4.2b,4.1
JMA III 12 01 07 51.9–.10 36.84N 141.05E 49–1 3.8,4.1
ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=16.9km az=75.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.0km az=0.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 01 10 50.3–2.0 35.94N–.09 141.6E–.10 26 9 1-60
IDC III 12 01 10 46.0–2.9 35.92N 141.73E 0 3.8,3.8L ¶16476736
ISCJB III 12 01 10 47.1–1.4 35.93N–.07 141.8E–.10 26 3.6b,3.8L
JMA III 12 01 10 49.1–.40 36.02N 141.72E 26 3.8,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=51.9km s-min=38.3km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=9.5km az=149.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 01 13 54.3–.70 37.30N–.04 141.38E–.05 20–4 4.6b 132 0-152
NIED III 12 01 13 00 37.30N 141.20E 29 4.5W ¶602656705
IDC III 12 01 13 51.4–.56 37.38N 141.31E 0 4.6,4.6L
ISCJB III 12 01 13 53.8–.73 37.29N–.03 141.39E–.04 28–5 4.6b,4.6L
NEIC III 12 01 13 55.3–2.3 37.40N 141.28E 25–16 4.7b,4.6L
JMA III 12 01 13 56.1–.10 37.32N 141.22E 30–1 4.9,4.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ28.00000°,λ-67.00000°. NP2:ϕ_s231.00000°,δ64.00000°,λ-102.00000°. $M_0$5.74000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=13.7km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=148.9.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=132.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 01 17 01.2–.48 38.07N–.04 142.80E–.04 27–2 5.3b,4.8s 646 2-159
BJI III 12 01 16 58.5 38.09N 142.75E 24 5.3b,5.0b ¶602656700
JMA III 12 01 16 58.9–.40 37.98N 142.90E 37 5.1,5.0b
MOS III 12 01 17 00.7–.90 38.21N 142.81E 33 5.5b,5.0b
NEIC III 12 01 17 00.7–1.0 38.05N 142.68E 21–7 5.4b,5.0b
ISCJB III 12 01 17 00.4–.14 38.10N–.03 142.66E–.02 29 5.2b,4.8s
IDC III 12 01 17 01.6–.63 38.03N 142.75E 28–3 5.0,5.0
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.7km az=91.7.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=142.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.4km az=161.9.
IDC Error ellipse: s-maj=11.7km s-min=9.2km az=146.0.
JMA III 12 01 17 27.2–.10 36.56N 140.94E 49–1 4.5
¶16308503
JMA Event type fe.
ISC III 12 01 19 43.9–1.1 38.26N–.08 142.2E–.10 35 4.2b 13 1-82
IDC III 12 01 19 38.8–2.6 38.40N 142.29E 0 4.3,4.3 ¶17194200
ISCJB III 12 01 19 42.4–.91 38.29N–.07 142.19E–.10 35 4.1b,4.3
JMA III 12 01 19 43.2–.30 38.35N 142.05E 35 4.5,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=36.8km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=9.3km az=35.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
JMA III 12 01 21 19.9–.40 35.60N 141.02E 24–2 2.5
¶603049531
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 12 01 22 58.1–.20 36.72N 141.00E 46–2 3.8
¶603049532
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 01 25 02.8–.33 36.38N–.04 141.75E–.04 26 5.1s,5.0b 289 1-152
BJI III 12 01 24 56.4 36.45N 142.38E 28 5.2b,5.1b ¶17194203
IDC III 12 01 24 58.7–.45 36.30N 141.76E 0 4.9,4.8
NIED III 12 01 25 00 36.30N 141.80E 8 4.9W,4.8
JMA III 12 01 25 01.7–.10 36.33N 141.88E 60 5.0,4.8
ISCJB III 12 01 25 01.6–.17 36.31N–.03 141.68E–.03 26 5.0s,5.0b
MOS III 12 01 25 01.6–1.3 36.49N 141.88E 33 5.3b,5.0b
NEIC III 12 01 25 01.3–2.1 36.34N 141.67E 13–13 5.0b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=10.9km az=97.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ23.00000°,λ15.00000°. NP2:ϕ_s65.00000°,δ84.00000°,λ112.00000°. $M_0$2.17000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=161.6.
MOS Error ellipse: s-maj=12.9km s-min=8.6km az=85.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.5km az=127.0.
ISC III 12 01 30 32.3–.48 36.72N–.06 141.97E–.05 19 4.3b 60 1-146
IDC III 12 01 30 29.8–.57 36.73N 142.01E 0 4.4,4.3 ¶16442321
JMA III 12 01 30 30.3–.50 37.02N 141.99E 3–3 4.9,4.3
ISCJB III 12 01 30 30.3–.33 36.69N–.04 142.08E–.04 19 4.3b,4.3
NEIC III 12 01 30 33.4–2.9 36.70N 142.05E 26–20 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=13.4km az=94.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=166.8.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.2km az=85.0.
JMA III 12 01 32 20.6–.30 36.62N 141.26E 46–3 3.9
¶602656691
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 01 33 39.9–.54 38.14N–.08 142.84E–.07 18 4.4b 63 2-145
IDC III 12 01 33 37.0–.61 38.14N 142.97E 0 4.3,4.2 ¶16476746
ISCJB III 12 01 33 38.0–.37 38.07N–.05 142.83E–.06 18 4.3b,4.2
NEIC III 12 01 33 39.1–3.3 38.12N 142.87E 12–20 4.6b,4.2
JMA III 12 01 33 43.3–.50 37.94N 142.33E 38 4.8,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=13.5km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=150.6.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=6.7km az=125.0. Recorded [3 JMA] in Nagano and Niigata.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 12 01 34 08.9–.40 38.79N–.03 142.96E–.03 19–1 5.9s,5.6b 1527 2-162
NIED III 12 01 34 00 38.60N 143.10E 5 5.6W,5.6b ¶17194206
ISCJB III 12 01 34 05.8–.71 38.75N–.02 142.90E–.02 8–4 5.9s,5.5b
IDC III 12 01 34 05.6–.30 38.72N 142.93E 0 5.6,5.6s
BJI III 12 01 34 06.9 38.71N 142.80E 18 5.9s,5.8
JMA III 12 01 34 07.5–.30 38.83N 142.89E 0 6.2,5.8
MOS III 12 01 34 08.5–1.7 38.85N 143.00E 41 5.8b,5.8s
GCMT III 12 01 34 09.6–.50 38.81N 142.85E 20–1 5.8W,5.8s
NEIC III 12 01 34 09.6–.92 38.75N 142.83E 22–6 5.9s,5.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ38.00000°,λ-93.00000°. NP2:ϕ_s138.00000°,δ52.00000°,λ-88.00000°. $M_0$2.56000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=154.6.
IDC Error ellipse: s-maj=9.9km s-min=7.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=10.9km s-min=7.3km az=80.6.
GCMT Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c19; s68,c95; Duration: 1ᵍ8 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.09±.51 $M_{\theta\theta}$2.84±.29; $M_{\phi\phi}$3.25±.32; $M_{r\theta}$0.43±.74; $M_{\theta\phi}$-1.45±.14; $M_{\phi r}$1.23±.72; Best double couple: NP1:ϕ_s148.00000°,δ49.00000°,λ-79.00000°. NP2:ϕ_s312.00000°,δ42.00000°,λ-102.00000°. Principal axes: T 4.5510,Plg4.0000°,Azm230.0000°; N 1.7400,Plg8.0000°,Azm321.0000°; P -6.2910,Plg81.0000°,Azm116.0000° $M_0$5.42100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=133.0. Recorded [3 JMA] in Miyagi.

ISC III 12 01 35 27.3–.72 39.2N–.10 143.0E–.10 16 5.0b 31 3-142
ISCJB III 12 01 35 25.7–.50 39.18N–.09 142.95E–.09 16 5.9s,5.0b **¶16442322**
IDC III 12 01 35 25.3–.85 39.18N 142.97E 0 6.0,6.0s
NEIC III 12 01 35 29.9–5.0 39.16N 142.94E 35–36 5.3b,6.0s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=8.8km az=147.3.
IDC Error ellipse: s-maj=24.6km s-min=16.8km az=171.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.8km az=177.0.
JMA III 12 01 38 31.6–.10 36.28N 141.01E 39–3 3.6
¶602656688
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 01 43 19.3–.40 36.28N–.03 141.74E–.04 28–2 5.1b 742 1-154
NIED III 12 01 43 00 36.40N 141.70E 23 4.9W **¶602656684**
BJI III 12 01 43 17.4 36.30N 141.80E 28 5.5s,5.4b
ISCJB III 12 01 43 19.3–.10 36.28N–.02 141.67E–.02 34 5.0b,5.4b
NEIC III 12 01 43 19.9–1.3 36.33N 141.56E 28–9 5.1b,5.4b
MOS III 12 01 43 19.2–.92 36.34N 141.57E 36 5.3b,5.4b
JMA III 12 01 43 19.3–.20 36.37N 141.68E 60–4 4.9,5.4b
IDC III 12 01 43 21.0–.64 36.37N 141.62E 38–5 6.3,6.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ37.00000°,λ-85.00000°. NP2:ϕ_e8.00000°,δ53.00000°,λ-94.00000°. M$_0$2.37000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=161.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=138.0.
MOS Error ellipse: s-maj=7.0km s-min=4.9km az=101.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=114.0.
JMA III 12 01 43 32.5–.40 38.35N 141.82E 66 4.2
¶16308509
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 12 01 46 19.7–.44 37.35N–.04 141.91E–.04 28–2 5.1b 428 1-152
BJI III 12 01 46 17.1 37.29N 141.78E 16 6.3s,6.1 **¶602707122**
ISCJB III 12 01 46 19.5–1.0 37.34N–.02 141.90E–.03 33–7 6.2s,5.2b
NEIC III 12 01 46 20.5–1.4 37.33N 141.75E 32–10 5.5b,5.2b
MOS III 12 01 46 20.4–.94 37.67N 141.74E 32 5.3b,5.2b
JMA III 12 01 46 20.9–.30 37.37N 141.83E 36–4 5.2,5.2b
IDC III 12 01 46 22.0–.63 37.35N 141.79E 45–5 4.8,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=149.8.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=128.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=95.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=10.7km s-min=9.2km az=124.0.
JMA III 12 01 49 36.9–.10 36.52N 140.93E 49–2 4.5
¶602656682
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 01 52 07.8–.30 35.94N 141.21E 21 3.8
¶602656681
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 01 55 20.1–.40 36.01N 141.01E 32 2.9
¶603049533
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 01 58 54.5–.47 36.22N–.07 141.72E–.08 26 4.4b 54 3-147
IDC III 12 01 58 50.8–.55 36.31N 141.70E 0 4.4,4.3 **¶16476761**
ISCJB III 12 01 58 52.8–.36 36.25N–.05 141.66E–.06 26 4.3b,4.3
NEIC III 12 01 58 55.1–2.7 36.24N 141.63E 30–19 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=14.1km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.5km az=29.8.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=52.0.
ISC III 12 02 04 51.6–1.8 36.55N–.04 141.67E–.06 12–10 4.6b 128 1-151
IDC III 12 02 04 49.3–.50 36.50N 141.67E 0 4.5,4.4 **¶16310146**
ISCJB III 12 02 04 52.5–.94 36.54N–.03 141.65E–.04 27–6 4.5b,4.4
JMA III 12 02 04 53.9–.30 36.54N 141.43E 0 4.6,4.4
NEIC III 12 02 04 54.5–1.4 36.53N 141.60E 30–9 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=12.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=18.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=129.0.
JMA III 12 02 06 56.2 36.73N 140.65E 6–3 3.7
¶603049535
JMA Event type fe.
JMA III 12 02 10 53.5–.30 35.95N 141.19E 21 3.3
¶603049537
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 02 11 34.2–.66 36.56N–.10 141.78E–.07 19 3.9b 26 3-147
IDC III 12 02 11 31.5–.77 36.54N 142.00E 0 4.0,3.8L **¶16442337**
ISCJB III 12 02 11 32.4–.53 36.52N–.07 141.89E–.07 19 3.9b,3.8L
NEIC III 12 02 11 36.5–.51 36.60N 141.83E 35 4.2b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=20.6km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=7.5km az=145.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=10.8km az=168.0.
JMA III 12 02 15 20.4–.30 35.20N 141.57E 46 4.1
¶603049539
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 02 20 22.6–.73 38.04N–.08 141.55E–.10 68 3.9b 18 1-89
JMA III 12 02 20 20.1–.10 38.16N 141.80E 44 4.3 **¶16442339**
ISCJB III 12 02 20 21.0–.62 38.07N–.07 141.65E–.09 68 3.7b
IDC III 12 02 20 20.0–4.0 38.04N 141.70E 43–36 3.8,3.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.6km az=37.4.
IDC Error ellipse: s-maj=33.8km s-min=18.6km az=83.0.
JMA III 12 02 22 29.9 36.74N 140.63E 10–1 3.0
¶603049540
JMA Event type fe.
JMA III 12 02 22 42.4–.20 36.16N 141.36E 43–5 3.8
¶17194225
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 02 25 02.1–.62 36.62N–.08 141.90E–.08 19 4.1b 28 1-90
IDC III 12 02 24 59.2–.84 36.64N 141.96E 0 4.0,3.9 **¶16442344**
ISCJB III 12 02 24 60.0–.47 36.57N–.05 141.95E–.07 19 4.0b,3.9
JMA III 12 02 25 00.4–.30 36.67N 141.97E 4 4.6,3.9
NEIC III 12 02 25 01.9–4.6 36.63N 141.88E 17–29 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=21.8km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=7.5km az=175.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.2km az=224.0.
ISC III 12 02 30 02.1–.54 38.46N–.07 142.17E–.07 41 4.2b 62 1-151
ISCJB III 12 02 30 00.6–.36 38.48N–.05 142.16E–.05 41 4.3b **¶16442345**
JMA III 12 02 30 01.1–.30 38.52N 142.12E 46 4.7
NEIC III 12 02 30 02.8–1.4 38.49N 142.06E 46–12 4.5b
IDC III 12 02 30 05.9–2.2 38.47N 142.00E 73–20 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.0km az=139.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.9km az=144.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=17.4km s-min=13.3km az=122.0.
ISC III 12 02 34 03.7–.30 36.71N–.03 141.56E–.04 21–3 5.5s,5.2b 890 1-155
NIED III 12 02 34 00 36.70N 141.60E 11 5.0W,5.2b **¶17194229**
BJI III 12 02 34 00.7 36.54N 141.73E 25 5.7s,5.6
MOS III 12 02 34 04.0–.98 36.65N 141.51E 33 5.4b,5.6
JMA III 12 02 34 04.1–.20 36.74N 141.61E 46–3 5.2,5.6
ISCJB III 12 02 34 04.3–.65 36.67N–.02 141.49E–.02 32–4 5.5s,5.2b
IDC III 12 02 34 05.4–3.2 36.64N 141.59E 33–24 5.1s,5.1
NEIC III 12 02 34 05.0–1.2 36.67N 141.43E 27–8 5.2b,5.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ26.00000°,λ125.00000°. NP2:ϕ_e23.00000°,δ69.00000°,λ74.00000°. M$_0$3.98000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=100.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=143.1.
IDC Error ellipse: s-maj=10.3km s-min=9.0km az=89.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=130.0. Recorded [3 JMA] in Fukushima.
ISC III 12 02 37 27.8–.43 40.05N–.05 142.93E–.05 12 4.8b 150 2-150
ISCJB III 12 02 37 26.3–.31 40.04N–.04 142.88E–.05 12 4.7b **¶602656639**
NEIC III 12 02 37 29.4–2.8 40.13N 142.72E 18–17 5.0b
MOS III 12 02 37 29.2–.83 40.07N 142.77E 30 5.2b
JMA III 12 02 37 30.7–.30 40.02N 142.75E 35 5.1
IDC III 12 02 37 36.7–2.4 40.06N 142.64E 79–21 4.6,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.8km az=43.7.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=137.0.
MOS Error ellipse: s-maj=9.9km s-min=6.5km az=93.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=13.7km az=129.0.
ISC III 12 02 43 09.9–.44 39.13N–.04 142.51E–.04 27–2 5.0b 418 2-155
BJI III 12 02 43 05.0 38.96N 142.69E 20 5.7s,5.6 **¶602656637**
ISCJB III 12 02 43 09.9–1.2 39.14N–.03 142.34E–.03 33–8 5.4s,4.9b
MOS III 12 02 43 09.3–.86 39.15N 142.38E 31 5.2b,4.9b
NEIC III 12 02 43 10.1–1.2 39.10N 142.30E 25–8 5.0b,4.9b
JMA III 12 02 43 10.6–.10 39.20N 142.43E 28–3 4.9,4.9b
IDC III 12 02 43 11.7–.49 39.12N 142.37E 37–4 4.7,4.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=142.9.
MOS Error ellipse: s-maj=7.4km s-min=5.1km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=141.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.8km az=99.0.
ISC III 12 02 50 35.0–2.4 36.94N–.04 141.10E–.06 17–14 4.5b 25 0-147
IDC III 12 02 50 32.8–.92 37.01N 141.08E 0 4.7,4.4 **¶17194234**
JMA III 12 02 50 34.4–.10 36.97N 141.16E 48–1 4.2,4.4
ISCJB III 12 02 50 35.0–.77 36.91N–.04 141.15E–.06 31–4 4.4b,4.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 12 02 52 34.5–.90 37.19N–.04 141.10E–.04 18–3 4.7b 87 0-152
NIED III 12 02 52 00 37.20N 141.20E 5 4.9W **¶602656440**
ISCJB III 12 02 52 33.2–.78 37.17N–.04 141.22E–.05 22–5 4.6b
JMA III 12 02 52 34.2–.10 37.23N 141.15E 16–1 5.1
NEIC III 12 02 52 37.0–.87 37.21N 141.02E 36–7 4.9b
IDC III 12 02 52 38.3–2.2 37.19N 141.02E 45–20 4.5,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ46.00000°,λ-54.00000°. NP2:ϕ_e189.00000°,δ55.00000°,λ-121.00000°. M$_0$2.57000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.1km az=152.5.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=5.7km az=144.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.0km s-min=12.3km az=143.0.
JMA III 12 02 53 47.8–.10 37.23N 141.14E 14–1 4.1
¶603049542
JMA Event type fe.
ISC III 12 02 54 09.6–1.3 36.9N–.20 141.9E–.20 19 4.4b 8 3-74
IDC III 12 02 54 04.9–.98 37.06N 142.58E 0 4.6,4.5 **¶17194235**
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.1km az=80.0.
ISC III 12 02 56 23.3–.91 37.20N–.05 141.10E–.07 23–5 4.5b 69 0-151
ISCJB III 12 02 56 21.3–.97 37.21N–.05 141.20E–.07 21–6 4.3b **¶16445721**
JMA III 12 02 56 22.2–.10 37.21N 141.15E 15–1 4.7
NEIC III 12 02 56 25.6–.91 37.25N 141.11E 39–8 4.6b
IDC III 12 02 56 26.5–2.4 37.22N 141.03E 46–21 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.3km az=27.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.6km az=176.0.
IDC Error ellipse: s-maj=18.0km s-min=16.0km az=153.0.
JMA III 12 02 58 33.9–.20 36.82N 141.11E 39–1 3.6
¶602656437
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 02 59 17.1–1.9 36.22N–.07 141.28E–.08 27–12 4.3b 23 1-80
IDC III 12 02 59 12.1–.88 36.44N 141.79E 0 4.4,4.3 **¶602656432**
ISCJB III 12 02 59 17.6–1.1 36.22N–.06 141.28E–.10 44–9 4.3b,4.3
JMA III 12 02 59 19.3–.10 36.18N 141.03E 38–2 4.5,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=19.8km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=9.3km az=8.9.
JMA Event type fe.
ISC III 12 03 01 46.9–.48 39.63N–.03 142.80E–.03 18–2 5.8b,5.5s 1721 2-159
NIED III 12 03 01 00 39.60N 142.90E 14 5.4W,5.5s **¶16308520**
IDC III 12 03 01 43.8–.31 39.49N 142.73E 0 5.6,5.6
ISCJB III 12 03 01 44.7–.74 39.59N–.02 142.72E–.02 10–4 5.7b,5.5s
JMA III 12 03 01 44.9–.20 39.57N 142.89E 11 5.6,5.5s
BJI III 12 03 01 44.1 39.47N 142.90E 24 5.8b,5.6b
NEIC III 12 03 01 47.4–1.3 39.55N 142.60E 20–7 5.8b,5.6b
MOS III 12 03 01 48.3–.96 39.76N 142.72E 34 6.0b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ44.00000°,λ-110.00000°. NP2:ϕ_e65.00000°,δ49.00000°,λ-72.00000°. M$_0$1.32000×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=8.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=142.0. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=7.2km s-min=5.1km az=91.3.
ISC III 12 03 06 22.5–.56 39.03N–.06 142.87E–.08 16 4.8b 59 2-117
IDC III 12 03 06 20.0–.64 39.15N 142.90E 0 4.6,4.5 **¶602656430**
ISCJB III 12 03 06 20.8–.39 39.03N–.04 142.88E–.06 16 4.6b,4.5
JMA III 12 03 06 25.1–.30 39.04N 142.70E 42 5.2,4.5
NEIC III 12 03 06 25.3–2.6 39.13N 142.83E 33–18 4.9b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=17.0km s-min=15.4km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=40.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.4km az=130.0.
JMA III 12 03 06 33.1–.10 37.39N 141.64E 42–2 3.4
¶603049545
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 03 07 33.2–.30 35.24N 141.25E 30 3.9
¶16449493
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 12 03 07 34.6–.30 35.82N 140.86E 8–3 3.7
¶16449494
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 03 10 18.7–.20 37.68N 141.88E 12–3 4.5
¶602656423
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 12 03 11 59.6–.65 35.99N–.03 141.44E–.03 31–4 5.6b,5.5s 1543 1-161
NIED III 12 03 11 00 36.00N 141.60E 23 5.5W,5.5s **¶16308521**
BJI III 12 03 11 55.1 36.09N 141.50E 18 5.8b,5.5s
MOS III 12 03 11 57.9–1.4 36.12N 141.62E 32 5.9b,5.7s
NEIC III 12 03 11 57.8–1.3 35.95N 141.34E 17–8 5.7b,5.7s
GCMT III 12 03 11 57.8–.60 36.03N 141.54E 35–0 5.9W,5.7s
JMA III 12 03 11 58.3–.20 35.98N 141.61E 37–3 5.6,5.7s
ISCJB III 12 03 11 59.5–.38 35.96N–.02 141.44E–.02 39–3 5.6b,5.6s
IDC III 12 03 12 01.1–1.5 35.94N 141.44E 41–13 5.4,5.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ32.00000°,λ-98.00000°. NP2:ϕ_e83.00000°,δ58.00000°,λ-85.00000°. M$_0$1.68000×10^{17}

MOS Error ellipse: s-maj=8.6km s-min=5.6km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=137.0. Recorded [3 JMA] in Fukushima.
GCMT Error ellipse: s-maj=6.7km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s72,c89; Duration: 2$_S$2 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.09±.06 $M_{\theta\theta}$0.66±.03; $M_{\phi\phi}$0.42±.03; $M_{r\theta}$-0.07±.03; $M_{\theta\phi}$0.01±.01; $M_{\phi r}$-0.03±.04; Best double couple: NP1:ϕ_s88.00000°,δ47.00000°,λ-91.00000°. NP2:ϕ_s270.00000°,δ43.00000°,λ-89.00000°. Principal axes: T 0.6650,Plg2.0000°,Azm179.0000°; N 0.4240,Plg1.0000°,Azm89.0000°; P -1.0930,Plg88.0000°,Azm336.0000° $M_0$0.87900×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=160.4.
IDC Error ellipse: s-maj=9.9km s-min=7.2km az=91.0.
JMA III 12 03 15 36.7–.20 36.83N 141.12E 46–1 4.1
¶602656412

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 03 20 27.5–1.6 36.83N–.05 141.50E–.08 32–10 4.3b 35 1-147
IDC III 12 03 20 17.0–1.1 35.97N 142.09E 0 4.3,4.2 **¶16451994**
NEIC III 12 03 20 18.8–5.3 35.96N 142.08E 12–32 4.4b,4.2
JMA III 12 03 20 31.5–.10 36.80N 141.10E 45–1 4.0,4.2
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=21.1km az=61.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=8.7km az=59.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 03 21 56.7 35.82N 140.93E 27–1 2.6
¶603049549

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 03 22 45.9–.30 37.69N 141.75E 34–5 4.3
¶602656409

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 12 03 31 39.0–.50 36.14N 141.91E 67 4.0
¶600540756

JMA Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.
ISC III 12 03 34 46.3–.26 35.24N–.03 141.18E–.04 35 5.3b,5.2s 866 1-159
NIED III 12 03 34 00 35.20N 141.20E 20 5.1W,5.2s **¶16308524**
IDC III 12 03 34 40.9–.41 35.29N 141.20E 0 5.1,5.0
BJI III 12 03 34 41.9 35.29N 141.20E 27 5.6b,5.3s
NEIC III 12 03 34 43.9–2.6 35.22N 140.95E 14–16 5.3b,5.3s
MOS III 12 03 34 43.3–.84 35.44N 141.59E 36 5.5b,5.3s
JMA III 12 03 34 44.0–.10 35.22N 141.21E 40–3 5.5,5.3s
ISCJB III 12 03 34 45.7–.10 35.20N–.02 140.98E–.02 35 5.2b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ27.00000°,λ180.00000°. NP2:ϕ_s47.00000°,δ90.00000°,λ63.00000°. $M_0$4.79000×10^{16}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
JMA III 12 03 39 31.6–.10 37.43N 141.33E 29–1 3.4
¶603049552

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 03 43 53.4–1.1 39.0N–.20 142.2E–.20 51 3.9b 6 4-76
IDC III 12 03 43 46.4–1.0 38.94N 142.25E 0 4.0,3.8b **¶17194244**
ISCJB III 12 03 43 51.3–.89 38.9N–.10 142.1E–.20 51 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 03 47 51.4–.56 36.79N–.06 141.63E–.07 33 4.1b 38 1-147
IDC III 12 03 47 46.3–.68 36.78N 141.74E 0 4.2,4.0 **¶602656362**
NEIC III 12 03 47 46.8–4.0 36.76N 141.74E 3–25 4.2b,4.0
ISCJB III 12 03 47 50.1–.45 36.85N–.05 141.71E–.06 33 4.0b,4.0
JMA III 12 03 47 51.2–.30 36.83N 141.61E 39–3 3.7,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=17.6km az=135.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.1km az=217.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.7km az=143.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 12 03 48 49.4–.20 35.86N 140.95E 12–2 3.3
¶602656350

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 03 49 25.3–1.5 35.87N–.04 140.89E–.10 4–11 3.8b 12 0-75
NIED III 12 03 49 00 35.90N 140.90E 11 4.7W **¶16452007**
IDC III 12 03 49 10.0–1.0 33.26N 141.07E 0 4.0,3.9
ISCJB III 12 03 49 24.3–1.7 35.87N–.07 141.0E–.10 9–11 3.9b,3.9
JMA III 12 03 49 24.4–.10 35.88N 140.95E 7–2 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ65.00000°,λ-5.00000°. NP2:ϕ_s125.00000°,δ85.00000°,λ-155.00000°. $M_0$1.06000×10^{16}
IDC Error ellipse: s-maj=38.5km s-min=23.5km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=18.7km s-min=12.3km az=174.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 03 51 03.9–.10 36.01N 141.04E 32–2 4.1
¶603049553

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 03 52 36.2–.10 37.20N 141.20E 26–1 3.3
¶602656339

ISC III 12 03 54 47.3–.42 35.88N–.03 141.34E–.04 26–2 4.9b,4.9s 400 0-152
NIED III 12 03 54 00 35.90N 141.50E 26 4.9W,4.9s **¶16404902**
IDC III 12 03 54 42.9–.40 35.81N 141.38E 0 4.7,4.7
BJI III 12 03 54 43.5 35.72N 141.42E 18 5.4b,5.1s
NEIC III 12 03 54 44.7–1.9 35.79N 141.23E 9–12 5.0b,5.1s
JMA III 12 03 54 45.2–.20 35.93N 141.45E 16–2 5.0,5.1s
ISCJB III 12 03 54 47.0–.70 35.84N–.02 141.24E–.03 32–5 4.9s,4.9b
MOS III 12 03 54 46.3–.92 35.78N 141.28E 35 5.2b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ40.00000°,λ-75.00000°. NP2:ϕ_s168.00000°,δ51.00000°,λ-103.00000°. $M_0$2.98000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.5km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=129.0. Recorded [3 JMA] in Chiba.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.6km az=135.9.
MOS Error ellipse: s-maj=8.3km s-min=5.7km az=100.8.
ISC III 12 03 57 37.6–.49 38.04N–.07 142.84E–.08 18 4.4b 54 4-145
ISCJB III 12 03 57 36.5–.36 38.15N–.05 142.77E–.07 18 4.3b **¶16452010**
IDC III 12 03 57 36.0–.60 38.26N 142.76E 0 4.5,4.3
NEIC III 12 03 57 40.6–.37 38.14N 142.67E 35 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=44.9.
IDC Error ellipse: s-maj=16.9km s-min=14.9km az=139.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.8km az=153.0.
JMA III 12 03 57 50.6–.30 35.28N 141.13E 41–5 3.8
¶602656333

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 04 00 52.4–.20 36.34N 141.48E 24 3.8
IDC III 12 04 00 39.6–29 35.19N 142.41E 0 4.2,4.2 **¶17194247**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=791.1km s-min=99.0km az=0.0.
JMA III 12 04 05 59.6–.10 36.49N 141.21E 19–3 3.6
¶602656312

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 04 06 09.0–.43 38.86N–.03 141.93E–.04 31–2 5.2b,5.1s 743 2-155
NIED III 12 04 06 00 38.70N 142.20E 47 5.3W,5.1s **¶602656310**
BJI III 12 04 06 04.6 38.70N 142.16E 28 5.6b,5.3b
JMA III 12 04 06 08.8–.30 38.74N 142.17E 40 5.3,5.3b
MOS III 12 04 06 08.4–1.0 38.90N 141.88E 39 5.5b,5.2s
ISCJB III 12 04 06 09.2–.43 38.89N–.02 141.86E–.03 42–3 5.2b,5.2s
NEIC III 12 04 06 10.2–.48 38.87N 141.78E 38–4 5.2b,5.2s
IDC III 12 04 06 11.3–2.1 38.83N 141.85E 49–19 5.0,4.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ96.00000°. $M_0$9.40000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

MOS Error ellipse: s-maj=7.1km s-min=5.0km az=97.5.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=148.2.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=145.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=142.0.
JMA III 12 04 10 47.9–.30 36.50N 141.24E 50 3.5
¶602656306

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 04 16 56.2–.94 35.96N–.07 141.33E–.08 26 3.7b 11 0-78
IDC III 12 04 16 51.9–1.5 35.81N 141.45E 0 3.9,3.8 **¶17194249**
ISCJB III 12 04 16 55.2–.85 36.05N–.07 141.33E–.09 26 3.7b,3.8
JMA III 12 04 16 55.0–.20 36.09N 141.27E 26–4 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=30.0km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=7.6km az=37.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 12 04 21 08.8–.93 36.76N–.03 140.63E–.05 14–6 4.3b 28 0-83
IDC III 12 04 21 06.5–1.5 36.87N 140.76E 0 4.3,4.2 **¶17194250**
ISCJB III 12 04 21 08.4–.58 36.76N–.03 140.69E–.05 20–4 4.1b,4.2
JMA III 12 04 21 09.1–.20 36.79N 140.58E 1–3 4.3,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=28.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=24.8.
JMA Event type fe.
JMA III 12 04 22 45.3–.10 35.81N 140.95E 26–1 2.6
¶603049554

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 04 24 15.4–.10 35.88N 140.79E 15–1 2.4
¶602656272

ISC III 12 04 24 25.6–.46 35.91N–.05 141.47E–.07 26 4.3b 66 1-152
IDC III 12 04 24 21.7–.61 35.88N 141.41E 0 4.4,4.2 **¶600540836**
ISCJB III 12 04 24 23.9–.32 35.93N–.03 141.56E–.05 26 4.3b,4.2
NEIC III 12 04 24 25.7–1.7 35.84N 141.45E 28–12 4.4b,4.2
JMA III 12 04 24 26.1–.10 35.98N 141.44E 42–2 4.2,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=15.9km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.7km az=31.2.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.7km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 04 25 51.9–.30 36.19N 141.67E 59 3.5
¶602656853

JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA III 12 04 28 28.7–.30 37.65N 141.88E 20–4 3.5
¶603145347

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 12 04 28 42.5–7.4 39.23N 142.63E 0 3.8,3.8
¶17194252

IDC Error ellipse: s-maj=186.2km s-min=25.9km az=175.0.
ISC III 12 04 28 54.8–.54 36.63N–.07 141.88E–.05 19 4.2b 39 1-147
IDC III 12 04 28 52.0–.62 36.68N 141.96E 0 4.3L,4.2 **¶602656844**
ISCJB III 12 04 28 52.8–.36 36.56N–.05 142.05E–.05 19 4.2b,4.2
JMA III 12 04 28 56.1–.30 36.66N 141.92E 35–5 4.5,4.2
NEIC III 12 04 28 57.4–1.2 36.61N 141.92E 39–12 4.4b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.1km s-min=15.2km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.4km az=156.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=9.2km az=45.0.
ISC III 12 04 32 00.7–.88 35.54N–.07 141.20E–.08 33 3.6b 12 0-79
IDC III 12 04 31 57.9–.98 35.23N 142.38E 0 4.1,3.9L **¶602656841**
ISCJB III 12 04 31 59.3–.71 35.54N–.08 141.31E–.08 33 3.7b,3.9L
JMA III 12 04 32 00.7–.20 35.59N 141.17E 43–4 3.0,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=40.8km s-min=21.9km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=9.7km az=3.2.
JMA Error ellipse: s-maj=4.4km s-min=2.7km az=-1.0.
JMA III 12 04 32 09.4–.50 36.66N 141.90E 64 3.7
¶17194253

JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
JMA III 12 04 34 14.0–.10 37.43N 141.21E 29–1 2.9
¶603049555

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 04 35 56.2–3.1 36.39N–.05 141.77E–.06 16–20 4.0b 35 1-147
ISCJB III 12 04 35 56.8–2.2 36.41N–.06 141.79E–.05 32–16 4.0b **¶602656832**
NEIC III 12 04 35 57.4–2.3 36.35N 141.76E 26–17 4.4b
JMA III 12 04 35 57.9–.20 36.38N 141.65E 64–4 3.8
IDC III 12 04 36 00.7–3.0 36.43N 141.69E 47–29 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.6km az=163.5.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.4km az=179.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=54.6km s-min=20.2km az=1.0.
ISC III 12 04 37 20.5–.71 36.23N–.04 141.10E–.05 25–4 4.7b 155 1-147
NIED III 12 04 37 00 36.30N 141.10E 29 4.5W **¶16308528**
NEIC III 12 04 37 20.5–1.8 36.21N 141.05E 24–12 4.7b
JMA III 12 04 37 21.6–.10 36.26N 141.13E 40–3 4.4
ISCJB III 12 04 37 21.6–.56 36.23N–.03 141.10E–.05 44–5 4.6b
IDC III 12 04 37 23.6–1.8 36.19N 141.08E 50–17 4.5,4.4L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ26.00000°,λ6.00000°. NP2:ϕ_s73.00000°,δ87.00000°,λ116.00000°. $M_0$5.72000×10^{15}
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=147.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.3km az=8.4.
IDC Error ellipse: s-maj=13.1km s-min=10.0km az=89.0.
IDC III 12 04 42 00.8–1.1 34.90N 140.51E 0 4.0,3.7
¶16476798

IDC Error ellipse: s-maj=48.2km s-min=23.0km az=101.0.
ISC III 12 04 43 03.2–.46 35.94N–.05 141.44E–.06 28–3 4.8b 357 1-152
IDC III 12 04 42 58.6–.49 35.92N 141.45E 0 4.7,4.6 **¶17194256**
NEIC III 12 04 43 00.7–2.0 35.88N 141.38E 11–12 4.9b,4.6
JMA III 12 04 43 03.2–.30 35.99N 141.43E 37–4 4.3,4.6
ISCJB III 12 04 43 03.8–.62 35.94N–.03 141.34E–.04 43–6 4.7b,4.6
ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC III 12 04 46 47.9–.94 37.0N–.10 141.9E–.10 19 4.3b 23 1-146
ISCJB III 12 04 46 45.9–.80 37.0N–.10 141.9E–.10 19 4.2b **¶16476800**
IDC III 12 04 46 45.7–2.2 37.17N 141.80E 0 4.2,4.0
JMA III 12 04 46 47.0–.30 36.65N 142.07E 58 4.3,4.0
NEIC III 12 04 46 47.9–3.2 36.99N 141.86E 20–22 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=9.9km az=147.8.
IDC Error ellipse: s-maj=62.9km s-min=24.5km az=174.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=9.7km az=138.0.
ISC III 12 04 47 18.6–.38 35.93N–.04 141.47E–.04 31–2 5.0b 591 1-152
NIED III 12 04 47 00 36.10N 141.50E 26 4.9W **¶17194258**
BJI III 12 04 47 14.8 35.84N 141.26E 14 5.2b,5.2s
MOS III 12 04 47 16.8–.74 35.90N 141.48E 33 5.2b,5.2s
ISCJB III 12 04 47 18.9–.56 35.91N–.03 141.38E–.03 43–5 5.1s,5.0b
NEIC III 12 04 47 18.8–.38 35.91N 141.34E 31–2 5.1b,5.0b
JMA III 12 04 47 18.0–.20 36.05N 141.51E 28–5 4.9,5.0b
IDC III 12 04 47 20.9–1.6 35.88N 141.48E 51–15 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ44.00000°,λ-83.00000°. NP2:ϕ_s282.00000°,δ46.00000°,λ-97.00000°. $M_0$2.28000×10^{16}
MOS Error ellipse: s-maj=9.7km s-min=6.5km az=110.9.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=164.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.3km az=152.0.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.4km s-min=9.1km az=98.0.
JMA III 12 04 50 35.2–.30 35.98N 141.37E 7–5 3.5
¶603049557

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 12 04 53 02.1–.20 36.66N 140.92E 44–2 2.6
¶602656808

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 04 53 23.3 36.79N 140.57E 5–4 3.5
¶600540865

JMA Event type fe.
JMA III 12 04 57 07.7–.10 35.91N 141.01E 19–2 2.8
¶603049558

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 04 58 22.0–3.6 36.90N–.08 141.2E–.20 43–20 4.2b 12 0-64
JMA III 12 04 58 22.5–.10 36.91N 141.07E 50–1 4.0 **¶602656798**
IDC III 12 04 58 31.1–1.6 36.51N 139.78E 0 4.2,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=31.3km az=171.0.
ISC III 12 05 01 29.3–.45 38.04N–.06 142.40E–.08 14 4.7b 61 1-146
IDC III 12 05 01 27.0–.64 38.04N 142.39E 0 4.2,4.2b **¶602656779**
ISCJB III 12 05 01 27.4–.34 38.00N–.04 142.38E–.07 14 4.6b,4.2b
NEIC III 12 05 01 30.6–2.1 38.03N 142.46E 23–15 4.6b,4.2b
JMA III 12 05 01 41.7–.30 37.14N 141.44E 38–4 3.7,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=13.4km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.4km az=30.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.2km az=111.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 05 03 22.0–.44 35.97N–.05 141.37E–.06 26 4.5b 82 0-147
IDC III 12 05 03 17.6–.64 35.92N 141.38E 0 4.4,4.3b **¶602656772**
ISCJB III 12 05 03 20.7–.30 35.99N–.04 141.43E–.04 26 4.5b,4.3b
JMA III 12 05 03 21.9–.20 36.02N 141.43E 37–3 4.0,4.3b
NEIC III 12 05 03 25.8–.96 36.00N 141.26E 55–9 4.7b,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=17.3km s-min=14.8km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=154.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.4km az=137.0.
JMA III 12 05 14 16.3–.10 36.71N 140.58E 10–3 3.2
¶602656254

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 05 14 46.8–1.1 36.79N–.02 140.50E–.03 5–6 4.9b 435 0-147
NIED III 12 05 14 00 36.80N 140.70E 5 4.7W **¶600540926**
JMA III 12 05 14 46.7 36.75N 140.65E 10–2 4.8
ISCJB III 12 05 14 48.6–.50 36.84N–.03 140.48E–.03 20–3 4.8b
NEIC III 12 05 14 53.6–.47 36.82N 140.35E 50–4 4.9b
IDC III 12 05 14 53.4–1.4 36.79N 140.53E 53–13 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ26.00000°,λ-95.00000°. NP2:ϕ_s154.00000°,δ65.00000°,λ-88.00000°. $M_0$1.24000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=143.9.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=153.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=9.9km s-min=8.5km az=76.0.
ISC III 12 05 24 34.4–.56 35.14N–.06 141.17E–.08 48 4.1b 46 1-91
IDC III 12 05 24 28.1–.61 35.21N 141.24E 0 4.2,4.0 **¶602656230**
JMA III 12 05 24 31.0–.30 35.20N 141.37E 25 3.7,4.0
NEIC III 12 05 24 31.8–2.2 35.16N 141.14E 21–16 4.5b,4.0
ISCJB III 12 05 24 32.9–.40 35.19N–.04 141.15E–.06 48 4.6s,4.1b
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
JMA III 12 05 26 38.3–.10 36.96N 141.13E 47–1 3.8
¶603049560

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 05 27 09.8–.61 38.8N–.10 142.7E–.10 27 4.3b 36 6-147
IDC III 12 05 27 05.5–.76 38.85N 142.75E 0 4.2,4.0 **¶602656225**
ISCJB III 12 05 27 07.9–.44 38.79N–.08 142.64E–.09 27 4.3b,4.0
NEIC III 12 05 27 09.4–2.7 38.83N 142.68E 24–20 4.5b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=18.7km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=7.9km az=144.8.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.8km az=133.0.
ISC III 12 05 31 43.8–.58 38.37N–.09 142.2E–.20 41 4.3b 25 6-151
IDC III 12 05 31 37.9–.76 38.38N 142.25E 0 4.3,4.2 **¶17194268**
ISCJB III 12 05 31 41.9–.45 38.34N–.07 142.2E–.10 41 4.3b,4.2
NEIC III 12 05 31 43.2–.35 38.38N 142.30E 35 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=18.7km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=9.8km az=10.1.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.4km az=101.0.
IDC III 12 05 32 20.0–6.9 35.61N 141.29E 0 4.5,4.3
¶17194269

IDC Error ellipse: s-maj=266.8km s-min=22.3km az=66.0.
ISC III 12 05 33 10.3–.55 38.18N–.09 142.60E–.09 14 4.5b 47 4-117
IDC III 12 05 33 05.9–.81 38.01N 142.90E 0 4.3,4.2 **¶16425334**
ISCJB III 12 05 33 09.3–.46 38.30N–.07 142.52E–.07 14 4.5b,4.2
NEIC III 12 05 33 13.6–1.6 38.23N 142.52E 35–15 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=18.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.8km az=144.5.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=12.0km az=164.0.
ISC III 12 05 36 36.7–.72 38.5N–.10 142.1E–.10 41 3.9b 18 3-146
NIED III 12 05 36 00 36.10N 141.90E 5 4.2W **¶17194270**
ISCJB III 12 05 36 35.0–.56 38.48N–.10 142.1E–.10 41 3.9b
IDC III 12 05 36 39.0–4.0 38.47N 141.96E 62–37 3.9,3.8
JMA III 12 05 36 49.9–.30 36.08N 141.87E 44 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s287.00000°,δ19.00000°,λ-164.00000°. NP2:ϕ_s182.00000°,δ85.00000°,λ-72.00000°. $M_0$2.54000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=9.4km az=40.4.
IDC Error ellipse: s-maj=20.8km s-min=17.6km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 12 05 39 10.9–.40 36.00N 141.57E 34 3.4
¶603049563

JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 12 05 40 06.5–.54 36.16N–.08 141.8E–.10 23 4.1b 37 3-151
IDC III 12 05 40 02.7–.63 36.17N 141.80E 0 4.1,3.9 **¶17194271**
ISCJB III 12 05 40 04.7–.36 36.14N–.06 141.7E–.10 23 4.3b,3.9
NEIC III 12 05 40 05.1–3.9 36.16N 141.78E 13–25 4.8b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=17.1km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=8.0km az=15.8.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=109.0.
JMA III 12 05 41 42.2–.10 35.76N 141.06E 35–1 3.6
¶603049564

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 05 45 17.0–2.0 37.22N–.06 141.33E–.08 26–13 4.0b 29 0-90
JMA III 12 05 45 18.4–.20 37.23N 141.31E 30–2 4.4 **¶16476815**
IDC III 12 05 45 22.2–3.2 37.23N 141.13E 70–29 3.7,3.7
NEIC III 12 05 45 23.4–1.2 37.48N 140.70E 35 3.7,3.7
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=17.5km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=26.9km s-min=13.9km az=110.0. Recorded [3 JMA] in Fukushima.
ISC III 12 05 53 25.8–1.0 36.64N–.06 141.55E–.10 20–4 4.2b 25 1-75
IDC III 12 05 53 22.3–1.6 36.69N 141.68E 0 4.2,4.2 **¶16445725**
ISCJB III 12 05 53 25.8–1.1 36.63N–.05 141.58E–.09 39–10 4.2b,4.2
NEIC III 12 05 53 27.3–.91 36.67N 141.64E 35 4.6b,4.2
JMA III 12 05 53 28.5–.20 36.69N 141.35E 41–3 3.6,4.2
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=21.6km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.7km az=160.3.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=9.9km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 05 58 37.5–.20 36.64N 141.04E 40–3 3.6
¶602656145

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 05 59 06.0–.30 35.40N 141.52E 15
¶602656141

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 06 00 24.1–.56 36.38N–.04 141.80E–.04 24–3 5.1b,4.8s 678 1-154
NIED III 12 06 00 00 36.30N 142.00E 11 5.1W,4.8s **¶16310149**
IDC III 12 06 00 20.4–.45 36.40N 141.89E 0 5.1L,5.0
BJI III 12 06 00 21.9 36.32N 141.78E 27 5.4b,5.2b
JMA III 12 06 00 21.4–.30 36.33N 141.96E 26 5.3,5.2b
ISCJB III 12 06 00 23.1–1.0 36.33N–.03 141.79E–.02 27–7 5.1b,4.7s
MOS III 12 06 00 23.3–1.0 36.44N 141.91E 33 5.3b,4.7s
NEIC III 12 06 00 25.3–1.1 36.37N 141.73E 31–7 5.1b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ72.00000°,λ-15.00000°. NP2:ϕ_s91.00000°,δ76.00000°,λ-162.00000°. $M_0$5.19000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=11.3km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=161.6.
MOS Error ellipse: s-maj=8.2km s-min=6.2km az=86.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=135.0.
JMA III 12 06 06 01.4–.30 36.41N 141.01E 28 2.8
¶603049566

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 06 08 57.0–.88 36.7N–.20 141.79E–.08 19 4.0b 22 3-147
IDC III 12 06 08 54.0–.86 36.75N 141.80E 0 4.1,3.9 **¶16476817**
ISCJB III 12 06 08 55.4–.78 36.7N–.20 141.82E–.08 19 4.0b,3.9
NEIC III 12 06 08 57.0–.68 36.24N 141.91E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=25.8km s-min=20.0km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=22.3km s-min=8.3km az=166.9.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.5km az=154.0.
JMA III 12 06 10 22.1–.10 37.20N 141.49E 38–2 2.8
¶602656088

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 06 18 41.5–.43 39.22N–.03 142.50E–.03 31–2 5.5b,5.2s 1172 2-159
NIED III 12 06 18 00 39.20N 142.70E 32 5.3W,5.2s **¶602656073**
IDC III 12 06 18 36.9–.30 39.16N 142.50E 0 5.2,5.1
JMA III 12 06 18 39.5–.10 39.16N 142.70E 44 5.5,5.1
ISCJB III 12 06 18 39.4–.70 39.19N–.02 142.43E–.02 24–4 5.4b,5.2s
BJI III 12 06 18 40.6 39.17N 142.32E 36 5.6b,5.2
MOS III 12 06 18 40.6–1.1 39.31N 142.46E 33 5.6b,5.0s
NEIC III 12 06 18 44.6–.41 39.17N 142.33E 54–3 5.5b,5.0s
GCMT III 12 06 18 44.6–.40 39.30N 142.35E 37–1 5.5W,5.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ31.00000°,λ-64.00000°. NP2:ϕ_s229.00000°,δ63.00000°,λ-104.00000°. $M_0$1.06000×10^{17}
IDC Error ellipse: s-maj=10.8km s-min=7.5km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=137.5.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=88.4.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=130.0. Recorded [4 JMA] in Iwate.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c46; s66,c98; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.82±.10 $M_{\theta\theta}$1.10±.06; $M_{\phi\phi}$0.72±.06; $M_{r\theta}$0.50±.07; $M_{\theta\phi}$0.55±.04; $M_{\phi r}$1.01±.07; Best double couple: NP1:ϕ_s221.00000°,δ62.00000°,λ-101.00000°. NP2:ϕ_s62.00000°,δ30.00000°,λ-71.00000°. Principal axes: T 1.7760,Plg16.0000°,Azm318.0000°; N 0.4230,Plg9.0000°,Azm226.0000°; P -2.1990,Plg71.0000°,Azm106.0000° $M_0$1.98700×10^{17}
JMA III 12 06 21 35.2–.10 37.35N 141.31E 29–1 3.8
¶602656072

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 06 23 15.0–.61 39.52N–.04 142.96E–.07 40–6 4.7b 121 2-149
JMA III 12 06 23 11.2–.30 39.54N 142.98E 24 5.4 **¶16425339**
ISCJB III 12 06 23 13.7–.68 39.54N–.03 142.85E–.05 38–6 4.6b
IDC III 12 06 23 15.5–2.0 39.48N 142.86E 44–20 4.4,4.3
NEIC III 12 06 23 16.7–.58 39.52N 142.77E 52–5 4.8b,4.3
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=23.6.
IDC Error ellipse: s-maj=15.2km s-min=13.0km az=109.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=140.0.
ISC III 12 06 27 55.3–.46 35.92N–.05 141.89E–.05 23 4.2b 58 1-145
IDC III 12 06 27 51.7–.64 35.89N 141.88E 0 4.2,4.1 **¶602656066**
ISCJB III 12 06 27 53.6–.33 35.94N–.04 141.93E–.05 23 4.2b,4.1
JMA III 12 06 27 54.0–.30 36.20N 141.78E 0 4.2b,4.1
NEIC III 12 06 27 56.5–2.2 35.97N 141.90E 30–15 4.5b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=16.3km s-min=14.4km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.9km az=136.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.7km az=105.0.
ISC III 12 06 29 08.5–.37 39.19N–.06 142.50E–.07 27 4.9b 384 3-155
ISCJB III 12 06 29 07.1–.18 39.18N–.04 142.40E–.04 27 4.8b **¶16310152**
NEIC III 12 06 29 12.4–.52 39.20N 142.32E 58–4 4.8b
IDC III 12 06 29 14.5–2.0 39.20N 142.41E 80–19 4.6,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.5km az=160.3.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=2.9km az=144.0.
IDC Error ellipse: s-maj=13.0km s-min=10.0km az=114.0.
IDC III 12 06 35 35.0–2.4 38.62N 141.59E 242–26 3.8,3.5
¶602707152

IDC Error ellipse: s-maj=37.4km s-min=17.8km az=108.0.
JMA III 12 06 39 58.8–.10 36.64N 141.01E 48–1 4.1
¶602656032

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 06 40 45.0–.10 36.77N 140.93E 23–2 4.7
NIED III 12 06 40 00 36.80N 140.90E 26 4.4W **¶603049571**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ34.00000°,λ56.00000°. NP2:ϕ_s216.00000°,δ63.00000°,λ111.00000°. $M_0$5.25000×10^{15}
ISC III 12 06 44 01.0–.67 36.58N–.03 141.01E–.05 42–6 4.7b 200 0-147
NIED III 12 06 44 00 36.60N 141.00E 44 4.7W **¶16308542**
JMA III 12 06 44 00.7–.10 36.60N 141.03E 43–1 4.7
ISCJB III 12 06 44 01.5–.34 36.58N–.02 140.89E–.03 55–2 4.7b
NEIC III 12 06 44 03.0–.60 36.61N 140.77E 55–5 4.7b
IDC III 12 06 44 03.8–1.4 36.54N 140.88E 69–13 4.7,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ6.00000°,λ23.00000°. NP2:ϕ_s50.00000°,δ88.00000°,λ95.00000°. $M_0$1.26000×10^{16}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=13.5.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=4.3km az=140.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=10.8km s-min=7.9km az=77.0.
IDC III 12 06 45 25.2–1.2 40.54N 141.80E 0 4.5,4.3b
¶17194280

IDC Error ellipse: s-maj=39.1km s-min=26.9km az=63.0.
JMA III 12 06 46 03.5–.30 35.37N 141.41E 67–4 3.6
NIED III 12 06 46 00 35.40N 141.40E 8 4.4W **¶600541104**
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s128.00000°,δ28.00000°,λ-18.00000°. NP2:ϕ_s234.00000°,δ82.00000°,λ-117.00000°. $M_0$4.27000×10^{15}

ISC III 12 06 49 10.8–3.1 38.66N–.04 142.60E–.06 24–22 4.6b 129 2-145
NIED III 12 06 49 00 38.60N 142.70E 17 4.5W ¶600541106
IDC III 12 06 49 06.7–.51 38.68N 142.38E 0 4.4,4.3
JMA III 12 06 49 08.8–.30 38.65N 142.69E 46 4.7,4.3
ISCJB III 12 06 49 09.9–1.4 38.70N–.03 142.51E–.04 26–10 4.5b,4.3
NEIC III 12 06 49 12.5–1.8 38.66N 142.54E 32–13 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ63.00000°,λ-161.00000°. NP2:ϕ_s123.00000°,δ73.00000°,λ-28.00000°. $M_0$7.07000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=12.4km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.8km az=39.8.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=135.0.
JMA III 12 06 59 15.3–.10 35.92N 141.01E 23–1 2.9
¶603049572
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 07 02 41.2–.40 36.98N 141.35E 39–4 3.1
¶603049573
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 12 07 04 17.2–.62 36.34N–.09 141.65E–.08 26 4.3b 29 1-147
NIED III 12 07 04 00 36.00N 141.00E 5 4.3W ¶16425351
IDC III 12 07 04 13.1–.70 36.40N 141.78E 0 4.4,4.2
ISCJB III 12 07 04 15.4–.44 36.33N–.07 141.67E–.06 26 4.3b,4.2
NEIC III 12 07 04 18.4–.49 36.32N 141.70E 35 4.5b,4.2
JMA III 12 07 04 19.5–.10 36.01N 141.05E 17–2 4.1,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ28.00000°,λ-68.00000°. NP2:ϕ_s178.00000°,δ64.00000°,λ-101.00000°. $M_0$3.21000×10^{15}
IDC Error ellipse: s-maj=21.9km s-min=18.5km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.0km az=1.5.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.7km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 07 07 30.7–.46 38.30N–.04 142.26E–.05 29–2 4.9b,4.2s 566 1-155
NIED III 12 07 07 00 38.30N 142.20E 20 4.9W,4.2s ¶16308546
ISCJB III 12 07 07 29.8–1.1 38.32N–.03 142.18E–.03 30–8 4.9b,4.3s
JMA III 12 07 07 29.8–.20 38.26N 142.25E 30 4.9,4.3s
MOS III 12 07 07 29.7–.87 38.36N 142.24E 34 5.2b,4.3s
IDC III 12 07 07 30.9–.47 38.34N 142.22E 29–2 4.7,4.7
NEIC III 12 07 07 33.0–.49 38.35N 142.12E 42–4 4.9b,4.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ35.00000°,λ-94.00000°. NP2:ϕ_s270.00000°,δ55.00000°,λ-87.00000°. $M_0$2.48000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=153.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=106.5.
IDC Error ellipse: s-maj=11.0km s-min=9.3km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=139.0. Felt at Sodegaura, Yokohama and Yokosuka.
IDC III 12 07 08 51.5–13 36.23N 141.99E 0 4.5,4.0
¶17194281
IDC Error ellipse: s-maj=398.4km s-min=138.3km az=72.0.
JMA III 12 07 10 57.8–.10 37.43N 141.43E 36–1 3.7
¶602655986
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 07 12 14.4–.57 38.05N–.09 142.87E–.08 18 4.2b 42 4-89
ISCJB III 12 07 12 12.2–.48 38.04N–.07 142.97E–.08 18 4.7s,4.1b ¶16425352
IDC III 12 07 12 15.6–.51 38.04N 142.90E 28–3 4.7,4.7s
NEIC III 12 07 12 17.1–.80 38.04N 142.91E 41–7 4.7b,4.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=7.5km az=139.4.
IDC Error ellipse: s-maj=15.5km s-min=11.7km az=99.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=119.0.
ISC III 12 07 16 23.9–.58 35.77N–.05 141.31E–.07 25 4.2b 30 0-145
ISCJB III 12 07 16 22.3–.43 35.77N–.04 141.44E–.06 25 4.2b ¶16425353
JMA III 12 07 16 24.0–.10 35.83N 141.38E 36–1 3.7
IDC III 12 07 16 25.9–2.1 35.70N 141.24E 44–22 4.3L,4.0
NEIC III 12 07 16 26.2–1.1 35.72N 141.25E 46–11 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.9km az=33.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.0km s-min=13.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=96.0.
JMA III 12 07 17 15.9–.10 35.79N 141.02E 39–1 2.9
¶603049575
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
JMA III 12 07 18 27.1–.10 37.13N 141.20E 24–1 3.4
¶603049578
JMA Event type fe.
JMA III 12 07 19 30.1–.10 35.73N 140.94E 10–1 2.5
¶602655979
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 07 20 58.8–.37 35.98N–.04 141.41E–.05 26 4.9b 229 1-147
NIED III 12 07 20 00 36.00N 141.50E 29 4.7W ¶600541143
MOS III 12 07 20 54.4–.78 35.59N 141.69E 33 5.1b
ISCJB III 12 07 20 57.9–.21 36.02N–.04 141.40E–.03 26 4.8b
NEIC III 12 07 20 58.9–1.7 35.96N 141.33E 24–12 4.9b
JMA III 12 07 20 58.5–.10 36.04N 141.47E 29–2 4.6
IDC III 12 07 20 59.4–3.7 35.88N 141.37E 33–28 4.8,4.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ38.00000°,λ-62.00000°. NP2:ϕ_s71.00000°,δ57.00000°,λ-110.00000°. $M_0$1.27000×10^{16}
MOS Error ellipse: s-maj=16.2km s-min=9.0km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=164.7.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=147.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=12.7km az=134.0.
ISC III 12 07 30 16.8–.40 35.92N–.05 141.40E–.05 26 4.6b 120 0-147
NIED III 12 07 30 00 36.00N 141.50E 26 4.3W ¶17194294
ISCJB III 12 07 30 15.5–.22 35.94N–.03 141.40E–.04 26 4.5b
JMA III 12 07 30 16.6–.20 36.02N 141.48E 33–2 4.1
IDC III 12 07 30 18.3–2.1 35.90N 141.32E 40–19 4.4,4.3
NEIC III 12 07 30 19.4–.61 35.88N 141.31E 47–6 4.6b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ31.00000°,λ-102.00000°. NP2:ϕ_s96.00000°,δ60.00000°,λ-83.00000°. $M_0$3.60000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.0km az=163.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=12.0km az=94.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=176.0.
JMA III 12 07 35 58.1 36.97N 140.86E 13–1 3.4
¶603049579
JMA Event type fe.
ISC III 12 07 36 56.6–.53 36.91N–.04 141.66E–.05 33–3 4.8b 172 1-160
NIED III 12 07 36 00 37.00N 141.60E 32 4.5W ¶16425360
MOS III 12 07 36 54.2–1.0 36.82N 141.66E 33 5.2b
JMA III 12 07 36 55.9–.20 36.96N 141.62E 24–2 4.7
IDC III 12 07 36 56.7–.57 36.93N 141.63E 37–3 4.4,4.4
ISCJB III 12 07 36 56.5–.55 36.89N–.03 141.63E–.04 48–5 4.8b,4.1s
NEIC III 12 07 36 58.9–.55 36.89N 141.56E 54–5 4.8b,4.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ49.00000°,λ-33.00000°. NP2:ϕ_s294.00000°,δ66.00000°,λ-134.00000°. $M_0$7.13000×10^{15}
MOS Error ellipse: s-maj=10.0km s-min=6.9km az=88.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=11.3km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=12.7.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=126.0.
JMA III 12 07 51 56.6–.20 36.87N 141.16E 43–2 4.0
¶602655960
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 07 53 02.0 37.28N 141.10E 21–1 3.0
¶603049581
JMA III 12 07 53 04.5–.40 36.01N 141.23E 32 3.8
¶16476845
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 12 07 53 45.5–1.3 37.8N–.20 141.9E–.20 24 4.2s,4.1b 15 3-152
IDC III 12 07 53 41.6–2.1 37.75N 141.88E 0 4.3,4.3s ¶602655957
ISCJB III 12 07 53 44.0–1.1 37.8N–.20 141.8E–.20 24 4.2s,4.0b
NEIC III 12 07 53 46.9–.85 37.71N 141.81E 35 4.4b,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=61.1km s-min=23.5km az=169.0.
ISCJB Event type ke. Error ellipse: s-maj=32.0km s-min=10.5km az=147.2.
NEIC Event type se. Error ellipse: s-maj=27.7km s-min=10.4km az=153.0.
ISC III 12 07 54 08.2–.50 35.95N–.03 141.60E–.04 31–3 5.0b,4.6s 657 1-154
NIED III 12 07 54 00 36.10N 141.60E 26 5.1W,4.6s ¶17194301
IDC III 12 07 54 03.4–.40 35.96N 141.59E 0 4.8,4.7
BJI III 12 07 54 04.8 35.90N 141.50E 10 5.1b,4.9s
JMA III 12 07 54 05.8–.30 36.05N 141.64E 5–4 5.2,4.9s
MOS III 12 07 54 06.9–.99 35.98N 141.47E 31 5.2b,4.6s
ISCJB III 12 07 54 08.6–.48 35.92N–.03 141.49E–.03 44–4 5.0b,4.7s
NEIC III 12 07 54 09.4–.52 35.91N 141.45E 37–5 5.1b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ46.00000°,λ-61.00000°. NP2:ϕ_s236.00000°,δ51.00000°,λ-116.00000°. $M_0$4.34000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=9.7km az=117.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=4.9km az=112.7.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=163.4.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=145.0.
JMA III 12 07 55 46.6–.30 37.69N 141.58E 46–4 4.3
¶603049582
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 12 07 57 58 00.0–1.4 39.0N–.20 142.7E–.30 27 4.6b 13 21-64
IDC III 12 07 57 56.1–1.2 39.01N 142.57E 0 4.6,4.5 ¶16445731
ISCJB III 12 07 57 57.7–.88 39.0N–.10 142.7E–.20 27 4.4b,4.5
NEIC III 12 07 58 01.1–.61 39.03N 142.63E 35 4.1b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=37.9km s-min=19.1km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=26.1km s-min=14.4km az=173.7.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=10.3km az=86.0.
JMA III 12 08 02 27.7–.10 37.33N 141.52E 37–2 3.7
¶602655953
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 08 02 54.7–.30 36.42N 141.64E 46 3.8
¶602655947
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 08 07 29.1–.65 35.92N–.05 141.43E–.08 23 4.2b 39 1-147
IDC III 12 08 07 23.5–.70 36.29N 142.29E 0 4.1,4.1L ¶17194309
NEIC III 12 08 07 28.8–.48 36.24N 142.19E 35 4.4b,4.1L
JMA III 12 08 07 33.8–.10 35.78N 141.03E 38–1 2.9,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=15.3km az=81.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.6km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 12 08 08 27.5–1.3 36.36N 141.65E 0 3.9,3.7
¶17194313
IDC Error ellipse: s-maj=48.9km s-min=26.0km az=81.0.
ISC III 12 08 10 05.3–.81 37.02N–.09 141.67E–.07 33 3.9b 20 1-147
NIED III 12 08 10 00 36.80N 141.90E 20 4.0W ¶16445739
IDC III 12 08 10 00.6–1.1 37.17N 141.86E 0 4.0,4.0L
JMA III 12 08 10 02.1–.40 36.78N 141.87E 29 4.0,4.0L
ISCJB III 12 08 10 03.3–.71 37.00N–.08 141.91E–.07 33 4.0b,4.0L
NEIC III 12 08 10 05.6–.58 37.22N 141.70E 35 4.2b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ14.00000°,λ132.00000°. NP2:ϕ_s350.00000°,δ79.00000°,λ80.00000°. $M_0$1.11000×10^{15}
IDC Error ellipse: s-maj=29.3km s-min=21.5km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.2km az=17.6.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=11.6km az=157.0.
ISC III 12 08 12 30.1–.62 35.25N–.05 141.28E–.07 25 4.1b 30 1-91
IDC III 12 08 12 26.3–.68 35.26N 141.34E 0 4.3,4.2 ¶16445741
ISCJB III 12 08 12 28.4–.46 35.24N–.04 141.39E–.06 25 4.2s,4.1b
NEIC III 12 08 12 31.4–.51 35.29N 141.35E 35 4.2b,4.1b
JMA III 12 08 12 31.5–.10 35.25N 141.17E 12 3.6,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=16.7km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=6.0km az=172.7.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.7km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 08 13 41.2–.53 35.69N–.05 141.71E–.06 25 5.0b 43 1-154
NIED III 12 08 13 00 35.90N 141.60E 17 4.9W ¶17194318
ISCJB III 12 08 13 39.3–.40 35.63N–.04 141.76E–.05 25 4.9b,4.3s
JMA III 12 08 13 42.0–.20 35.87N 141.61E 39–3 4.8,4.3s
IDC III 12 08 13 42.6–4.0 35.66N 141.71E 33–31 4.7,4.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ18.00000°,λ-62.00000°. NP2:ϕ_s263.00000°,δ75.00000°,λ-99.00000°. $M_0$2.41000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.9km az=136.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=10.9km az=90.0.
JMA III 12 08 15 30.9–.20 36.13N 141.06E 28 3.3
¶603049583
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 08 22 02.8–2.1 36.24N–.04 141.64E–.06 8–13 4.5b 118 1-147
NIED III 12 08 22 00 36.30N 141.70E 5 4.4W ¶602656611
IDC III 12 08 22 01.1–.47 36.22N 141.78E 0 4.4,4.3
NEIC III 12 08 22 03.8–3.0 36.23N 141.73E 12–18 4.6b,4.3
JMA III 12 08 22 04.5–.30 36.27N 141.66E 43 4.4,4.3
ISCJB III 12 08 22 04.7–.97 36.27N–.03 141.59E–.04 27–7 4.4b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ80.00000°,λ-178.00000°. NP2:ϕ_s136.00000°,δ88.00000°,λ-10.00000°. $M_0$3.88000×10^{15}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
JMA III 12 08 24 48.5–.10 36.04N 141.13E 26–5 2.9
¶603049584
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC III 12 08 27 31.7–.99 38.2N–.10 142.3E–.10 14 3.6b 12 1-146
JMA III 12 08 27 36.0–.40 38.20N 142.09E 37 4.0 ¶17194323
IDC III 12 08 27 39.5–4.8 38.78N 142.29E 57–45 3.6,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=41.7km s-min=23.5km az=99.0.
JMA III 12 08 28 26.7–.50 36.33N 141.90E 14 3.8
¶603049585
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 12 08 30 21.1–1.3 38.17N–.06 142.84E–.07 30–9 4.9b 348 4-154
ISCJB III 12 08 30 18.0–1.6 38.22N–.04 142.78E–.04 15–11 4.8b,4.2s ¶16308557
IDC III 12 08 30 22.1–2.2 38.22N 142.82E 39–19 4.5s,4.5
NEIC III 12 08 30 23.6–.51 38.20N 142.70E 48–4 4.9b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=152.0.
IDC Error ellipse: s-maj=12.5km s-min=10.0km az=123.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=143.0.
JMA III 12 08 37 22.7–.30 35.75N 140.96E 31–2 2.8
¶603049587
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 08 37 28.0–.90 38.4N–.20 142.6E–.10 24 3.9b 12 4-89
IDC III 12 08 37 24.4–.96 38.37N 142.60E 0 4.1,3.9 ¶16476873
ISCJB III 12 08 37 26.1–.79 38.3N–.10 142.6E–.10 24 3.9b,3.9

ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 37 45.0–1.6 38.5N–.20 141.7E–.20 10 3.7b 14 3-73
ISCJB III 12 08 37 42.9–1.3 38.5N–.10 141.5E–.20 10 3.8b **¶602656588**
IDC III 12 08 37 43.4–2.1 38.54N 141.65E 0 3.9,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=13.4km az=139.5.
IDC Error ellipse: s-maj=43.6km s-min=21.9km az=145.0.
ISC III 12 08 37 52.9–.47 38.09N–.06 142.77E–.08 10 4.8b 90 4-145
IDC III 12 08 37 51.7–.53 38.16N 142.72E 0 4.4,4.3 **¶602656586**
ISCJB III 12 08 37 59.1–.33 38.42N–.06 141.69E–.05 10 4.6b,4.3
NEIC III 12 08 38 05.4–.68 38.44N 141.68E 45–6 4.8b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=14.7km s-min=11.9km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.8km az=165.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.7km az=152.0.
JMA III 12 08 38 20.1–.10 35.93N 141.01E 16–2 3.3
¶603049588
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 08 42 11.2–.52 35.58N–.05 141.61E–.07 25 4.4b 44 1-147
IDC III 12 08 42 07.3–.94 35.65N 141.47E 0 4.2,4.1 **¶602656575**
ISCJB III 12 08 42 09.0–.35 35.54N–.04 141.73E–.05 25 4.5b,4.1
NEIC III 12 08 42 10.7–2.7 35.61N 141.59E 22–20 4.5b,4.1
JMA III 12 08 42 13.8–.20 36.02N 141.49E 37–4 3.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=25.3km s-min=22.5km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.0km az=153.1.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.5km az=145.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
JMA III 12 08 42 36.9–.10 36.80N 140.61E 13–3 3.5
¶600541223
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 08 43 26.2–.59 40.01N–.08 142.99E–.09 12 4.4b 43 2-115
ISCJB III 12 08 43 25.0–.41 40.04N–.06 142.89E–.07 12 4.2b **¶16425367**
NEIC III 12 08 43 30.5–.87 39.98N 142.90E 44–8 4.2b
IDC III 12 08 43 30.7–2.6 39.99N 142.86E 48–25 4.1,4.1s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.1km az=135.4.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.7km az=125.0.
IDC Error ellipse: s-maj=30.9km s-min=19.4km az=163.0.
ISC III 12 08 44 52.9–.54 39.22N–.05 142.59E–.08 29 4.6b 66 2-145
IDC III 12 08 44 49.4–.77 39.50N 142.56E 0 4.4,4.3b **¶16425368**
ISCJB III 12 08 44 50.9–.39 39.25N–.04 142.64E–.07 29 4.6b,4.3b
JMA III 12 08 44 52.8–.20 39.24N 142.50E 36 4.9,4.3b
NEIC III 12 08 44 55.4–1.0 39.33N 142.72E 54–9 4.9,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=15.0km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.2km az=133.0.
ISC III 12 08 47 30.2–.42 36.35N–.05 141.89E–.05 19 4.4b 79 1-152
ISCJB III 12 08 47 28.9–.28 36.30N–.04 141.93E–.04 19 4.5b **¶16425369**
JMA III 12 08 47 28.9–.30 36.49N 142.00E 15 4.2
IDC III 12 08 47 31.0–.57 36.37N 141.83E 22–2 4.2,4.2
NEIC III 12 08 47 30.7–.50 36.35N 141.82E 20–3 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=152.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=12.6km az=130.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.6km az=152.0.
ISC III 12 08 47 49.0–.71 36.5N–.10 141.3E–.10 26 4.5b 37 2-152
IDC III 12 08 47 44.4–.69 36.45N 141.24E 0 4.6,4.4 **¶17194338**
ISCJB III 12 08 47 47.4–.55 36.51N–.09 141.18E–.09 26 4.5b,4.4
NEIC III 12 08 47 52.0–1.1 36.66N 141.01E 35 4.6b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=16.2km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=9.2km az=156.8.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=12.9km az=152.0.
ISC III 12 08 49 00.6–.75 38.5N–.10 142.6E–.10 24 4.1b 16 4-89
IDC III 12 08 48 57.1–.85 38.54N 142.55E 0 4.3,4.1 **¶17194340**
ISCJB III 12 08 48 58.8–.65 38.47N–.09 142.5E–.10 24 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 49 36.7–.88 35.7N–.10 141.50E–.08 25 4.0b 13 1-147
IDC III 12 08 49 31.8–.98 35.53N 141.53E 0 4.2,4.0 **¶17194341**
ISCJB III 12 08 49 34.3–.70 35.64N–.08 141.62E–.07 25 4.0b,4.0
JMA III 12 08 49 35.9–.20 35.84N 141.53E 13–2 3.8,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=25.0km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=8.2km az=158.0.
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC III 12 08 55 44.1–.48 36.09N–.05 141.93E–.07 23 4.2b 52 1-147
NIED III 12 08 55 00 36.20N 141.90E 8 4.4W **¶16425370**
ISCJB III 12 08 55 42.4–.39 36.16N–.04 141.99E–.05 23 4.2b
NEIC III 12 08 55 43.3–1.5 36.14N 141.92E 16–8 4.7b
JMA III 12 08 55 43.9–.30 36.20N 141.92E 60 4.0
IDC III 12 08 55 44.6–.66 36.12N 141.88E 25–4 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ5.00000°,λ-169.00000°. NP2:ϕ_s193.00000°,δ89.00000°,λ-85.00000°. $M_0$3.91000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.3km az=38.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=6.1km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=13.5km az=84.0.
JMA III 12 08 58 58.9–.10 37.03N 141.06E 26–1 3.2
¶603049592
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 09 01 31.9–.30 36.19N 141.89E 87–5 3.8
¶602656530
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 12 09 02 55.1–1.6 39.71N–.07 142.54E–.08 65–12 4.7b 97 2-116
NIED III 12 09 02 00 39.70N 142.70E 23 4.5W **¶602656528**
JMA III 12 09 02 49.1–.40 39.70N 142.69E 14–4 4.8
NEIC III 12 09 02 51.5–.54 39.64N 142.68E 35 4.5b
ISCJB III 12 09 02 51.7–.91 39.68N–.04 142.65E–.07 54–6 4.6b
IDC III 12 09 02 54.6–2.6 39.68N 142.58E 63–23 4.6,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ19.00000°,λ74.00000°. NP2:ϕ_s10.00000°,δ72.00000°,λ95.00000°. $M_0$6.03000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=26.2.
IDC Error ellipse: s-maj=18.1km s-min=13.9km az=114.0.
ISC III 12 09 07 06.8–1.5 39.13N–.09 142.8E–.20 27 4.3b 8 3-63
ISCJB III 12 09 07 04.4–1.1 39.12N–.07 142.8E–.20 27 4.2b **¶17194343**
JMA III 12 09 07 07.7–.30 39.23N 142.46E 7–4 4.4
IDC III 12 09 07 09.1–4.5 39.17N 142.61E 45–43 4.2,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=22.5km s-min=8.9km az=167.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=46.0km s-min=21.9km az=85.0.
JMA III 12 09 07 27.6–.20 36.21N 141.87E 0 4.0
NIED III 12 09 07 00 36.20N 141.90E 59 4.6W **¶600541274**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ13.00000°,λ-140.00000°. NP2:ϕ_s211.00000°,δ82.00000°,λ-80.00000°. $M_0$9.82000×10^{15}
JMA III 12 09 27 26.4–.10 37.28N 141.10E 21–1 3.7
¶602656502
JMA Event type fe.
JMA III 12 09 29 28.9–.20 40.08N 142.77E 1–2 4.0
¶602656501
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 09 35 02.7–.54 35.45N–.04 141.11E–.07 33 4.3b 48 0-118
NIED III 12 09 35 00 35.50N 141.00E 32 4.3W **¶602656493**
ISCJB III 12 09 35 01.1–.43 35.51N–.03 141.20E–.06 33 4.2b
NEIC III 12 09 35 02.5–1.8 35.43N 141.08E 31–13 4.3b
JMA III 12 09 35 03.4–.20 35.54N 141.02E 35–2 3.8
IDC III 12 09 35 04.2–1.9 35.43N 141.07E 45–19 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ11.00000°,λ110.00000°. NP2:ϕ_s27.00000°,δ80.00000°,λ86.00000°. $M_0$2.72000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.9km az=3.1.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.3km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=12.3km az=83.0.
ISC III 12 09 37 06.2–.92 38.9N–.20 142.3E–.10 27 3.8b 11 2-88
IDC III 12 09 37 02.2–.98 38.88N 142.32E 0 4.0,3.7 **¶16476889**
ISCJB III 12 09 37 05.8–.81 39.1N–.10 142.5E–.10 27 3.7b,3.7
JMA III 12 09 37 07.7–.20 38.95N 142.41E 50 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.7km s-min=24.4km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=22.3km s-min=8.2km az=149.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 09 37 36.6–.68 38.42N–.10 142.9E–.10 23 4.3b 23 2-88
IDC III 12 09 37 33.6–.57 38.44N 142.94E 0 4.3,4.2 **¶17194350**
ISCJB III 12 09 37 34.8–.43 38.40N–.06 142.76E–.10 23 4.2b,4.2
NEIC III 12 09 37 38.8–.46 38.49N 142.75E 35 4.6b,4.2
JMA III 12 09 37 45.9–.20 37.76N 141.89E 14–2 4.3,4.2
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=12.8km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=6.2km az=34.3.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=7.3km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 09 40 11.9–.56 38.93N–.08 142.51E–.08 27 4.5b 76 3-155
ISCJB III 12 09 40 10.0–.41 38.91N–.06 142.48E–.06 27 4.5b,4.2s **¶16309766**
NEIC III 12 09 40 15.1–.66 38.97N 142.43E 54–5 4.8b,4.2s
IDC III 12 09 40 15.7–2.2 38.94N 142.39E 60–20 4.5,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.0km az=145.8.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.6km az=131.0.
IDC Error ellipse: s-maj=14.6km s-min=12.0km az=125.0.
JMA III 12 09 40 44.3–.10 36.29N 140.90E 45–4 3.2
¶603049594
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 09 40 44.1–.53 38.86N–.04 142.95E–.04 32–3 5.0b,4.7s 490 2-154
NIED III 12 09 40 00 38.50N 143.50E 5 5.1W,4.7s **¶17194352**
JMA III 12 09 40 35.5–.60 38.45N 143.55E 22 5.4,4.7s
BJI III 12 09 40 40.7 38.91N 142.73E 16 5.4b,5.0s
ISCJB III 12 09 40 41.0–.96 38.88N–.03 142.84E–.03 18–6 5.0b,4.7s
MOS III 12 09 40 43.2–.91 38.94N 142.83E 36 5.2b,4.4s
GCMT III 12 09 40 44.5–.40 38.84N 142.72E 16 5.2W,4.4s
NEIC III 12 09 40 44.5–1.0 38.86N 142.81E 32–7 5.1b,4.4s
IDC III 12 09 40 45.2–1.9 38.81N 142.95E 43–17 4.9,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ32.00000°,λ-77.00000°. NP2:ϕ_s131.00000°,δ59.00000°,λ-98.00000°. $M_0$4.78000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=145.8.
MOS Error ellipse: s-maj=6.9km s-min=4.9km az=99.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c20; s56,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.21±.35 $M_{\theta\theta}$1.80±.29; $M_{\phi\phi}$3.42±.26; $M_{r\theta}$-1.58±.99; $M_{\theta\phi}$-3.27±.22; $M_{\phi r}$3.47±1.04; Best double couple: NP1:ϕ_s150.00000° ,δ62.00000°,λ-81.00000°. NP2:ϕ_s312.00000°,δ29.00000°,λ-106.00000°. Principal axes: T 7.1040,Plg17.0000°,Azm234.0000°; N -0.6390,Plg8.0000°,Azm326.0000° ; P -6.4550,Plg71.0000°,Azm80.0000° $M_0$6.77900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=141.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=12.3km s-min=10.5km az=101.0.
JMA III 12 09 45 36.0–.20 37.23N 141.23E 22–2 2.7
IDC III 12 09 45 38.4–7.4 38.24N 142.14E 0 4.0b,3.9 **¶602656486**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=124.7km s-min=48.6km az=110.0.
ISC III 12 09 46 08.4–2.2 37.61N–.08 141.6E–.10 44–19 4.0b 26 1-90
ISCJB III 12 09 46 08.6–1.2 37.58N–.07 141.4E–.10 61–9 4.0b **¶17194354**
JMA III 12 09 46 09.7–.10 37.61N 141.40E 49–1 3.7
IDC III 12 09 46 11.2–3.6 37.60N 141.34E 68–31 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.8km s-min=10.9km az=163.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.5km s-min=19.2km az=78.0.
ISC III 12 09 55 03.8–1.0 37.26N–.05 141.28E–.08 52–8 4.4b 49 0-90
NIED III 12 09 55 00 37.30N 141.30E 53 4.3W **¶16425373**
ISCJB III 12 09 55 02.7–.67 37.26N–.04 141.34E–.07 59–4 4.3b
JMA III 12 09 55 04.5–.10 37.31N 141.25E 47–1 4.1
NEIC III 12 09 55 05.7–1.1 37.23N 141.25E 70–8 4.4b
IDC III 12 09 55 05.8–1.9 37.22N 141.24E 71–18 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ26.00000°,λ97.00000°. NP2:ϕ_s31.00000°,δ65.00000°,λ87.00000°. $M_0$2.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.3km az=18.4.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.2km az=130.0.
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=83.0.
ISC III 12 10 00 25.4–.51 35.97N–.04 141.91E–.04 26–3 5.0b,4.7s 451 1-154
NIED III 12 10 00 00 36.00N 142.00E 17 4.9W,4.7s **¶600541322**
IDC III 12 10 00 21.2–.44 35.92N 141.91E 0 4.7,4.6
BJI III 12 10 00 22.1 36.00N 141.80E 20 5.3b,4.8b
ISCJB III 12 10 00 23.9–.93 35.95N–.02 141.82E–.02 24–6 4.9b,4.7s
JMA III 12 10 00 23.6–.20 36.04N 141.98E 36–4 5.0,4.7s
MOS III 12 10 00 27.6–.82 36.34N 141.74E 39 5.1b,4.7s
NEIC III 12 10 00 27.2–.12 35.94N 141.77E 35 5.0b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ49.00000°,λ-156.00000°. NP2:ϕ_s126.00000°,δ72.00000°,λ-44.00000°. $M_0$2.45000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.5km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=151.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=107.7.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=149.0.
JMA III 12 10 02 09.7–.10 37.28N 141.74E 35–2 4.1
¶602656449
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 10 04 21.2–.20 35.92N 141.33E 27–4 3.5
¶602656447
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISC III 12 10 05 29.2–1.0 38.32N–.09 142.1E–.10 41 4.1b 18 1-146
IDC III 12 10 05 23.5–1.0 38.39N 142.10E 0 4.2,4.1 **¶16476899**
ISCJB III 12 10 05 27.0–.89 38.33N–.08 142.3E–.10 41 4.1b,4.1
JMA III 12 10 05 29.3–.30 38.30N 142.15E 35 4.3,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=34.7km s-min=19.0km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=9.3km az=30.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
JMA III 12 10 07 46.3–.20 37.34N 141.87E 17–2 4.0
¶602656444
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 10 09 33.4 37.32N 141.11E 27–1 3.7
¶602655931
JMA Event type fe.
JMA III 12 10 11 15.7–.20 35.60N 141.00E 39–2 2.4
¶603049597
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

JMA III 12 10 28 29.9–.20 36.79N 141.13E 44–2 2.9
¶603049598
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 10 32 41.1–.30 39.45N 142.07E 34–4 3.7
¶602655898
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 12 10 34 59.0–.10 36.26N 140.97E 37–2 3.0
¶603049600
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 10 38 45.3–1.2 35.5N–.20 141.9E–.20 22 4.3b 8 29-76
IDC III 12 10 38 41.9–1.1 35.51N 141.86E 0 4.4,4.2 **¶16476914**
ISCJB III 12 10 38 43.2–.99 35.5N–.10 141.9E–.30 22 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 10 39 10.9–.66 36.70N–.04 141.92E–.04 28–4 5.0b,4.8s 759 1-154
NIED III 12 10 39 00 36.70N 141.90E 29 4.7W,4.8s **¶17194375**
BJI III 12 10 39 06.5 36.59N 142.31E 31 5.5b,4.9b
JMA III 12 10 39 10.5–.30 36.72N 141.87E 22–3 4.9,4.9b
ISCJB III 12 10 39 11.5–.46 36.68N–.02 141.81E–.03 39–4 4.9b,4.8s
MOS III 12 10 39 11.3–.95 36.92N 141.84E 37 5.3b,4.8s
IDC III 12 10 39 12.9–1.9 36.71N 141.82E 41–17 4.8,4.7
NEIC III 12 10 39 12.5–.11 36.70N 141.76E 35 5.0b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ47.00000°,λ-61.00000°. NP2:ϕ_s179.00000°,δ50.00000°,λ-117.00000°. $M_0$1.38000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=163.7.
MOS Error ellipse: s-maj=8.1km s-min=5.9km az=84.4.
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=100.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=150.0.
ISC III 12 10 40 31.3–.62 35.73N–.08 141.82E–.07 22 4.5b 38 1-154
ISCJB III 12 10 40 29.3–.49 35.75N–.06 141.90E–.06 22 4.5b **¶16407499**
JMA III 12 10 40 32.2–.30 36.01N 141.81E 26 4.1
NEIC III 12 10 40 33.1–.37 35.74N 141.76E 35 4.6b
IDC III 12 10 40 33.2–5.4 35.70N 141.79E 35–42 4.5,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.1km az=147.1.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.4km az=170.0.
IDC Error ellipse: s-maj=19.9km s-min=18.0km az=163.0.
ISC III 12 10 53 30.9–.31 39.07N–.02 142.40E–.03 30–1 5.9b,5.5s 1902 2-161
NIED III 12 10 53 00 39.00N 142.50E 32 5.7W,5.5s **¶16309776**
ISCJB III 12 10 53 28.6–.61 39.04N–.01 142.37E–.01 22–4 5.8b,5.5s
BJI III 12 10 53 28.5 38.92N 142.26E 28 5.7,5.7b
JMA III 12 10 53 28.4–.20 39.00N 142.54E 20–4 5.8,5.7b
MOS III 12 10 53 29.5–.89 39.10N 142.41E 32 6.1b,5.4s
NEIC III 12 10 53 30.8–.07 39.05N 142.28E 27 6.0b,5.7W
GCMT III 12 10 53 30.8–.20 39.04N 142.28E 36–0 5.7W,5.7W
IDC III 12 10 53 31.4–.37 39.04N 142.34E 33–2 5.5,5.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ20.00000°,λ-107.00000°. NP2:ϕ_s165.00000°,δ71.00000°,λ-84.00000°. $M_0$3.41000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=96.8.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=139.0. Recorded [4 JMA] in Iwate and Miyagi. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.30 $M_{\theta\theta}$1.32 $M_{\phi\phi}$1.98 $M_{r\theta}$-0.43 $M_{\theta\phi}$-0.17 $M_{\phi r}$2.75 Best double couple: NP1:ϕ_s347.00000°,δ22.00000°,λ-92.00000°. NP2:ϕ_s170.00000°,δ68.00000°,λ-89.00000°. Principal axes: T 3.2100,Plg23.0000°,Azm259.0000°; N 1.2800,Plg1.0000°,Azm350.0000°; P -4.4900,Plg67.0000°,Azm82.0000° $M_0$4.00000×10^{17}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c134; s114,c201; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.10±.09 $M_{\theta\theta}$1.27±.06; $M_{\phi\phi}$1.83±.06; $M_{r\theta}$-0.41±.07; $M_{\theta\phi}$-1.15±.04; $M_{\phi r}$3.23±.09; Best double couple: NP1:ϕ_s163.00000°,δ69.00000°,λ-78.00000°. NP2:ϕ_s311.00000°,δ24.00000°,λ-120.00000°. Principal axes: T 3.9740,Plg23.0000°,Azm243.0000°; N 0.7270,Plg12.0000°,Azm339.0000°; P -4.7010,Plg63.0000°,Azm93.0000° $M_0$4.33800×10^{17}
IDC Error ellipse: s-maj=7.6km s-min=5.7km az=80.0.
JMA III 12 10 59 50.4–.50 39.17N 142.46E 28 4.0
¶602655867
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
JMA III 12 11 00 48.5–.20 37.26N 141.66E 36–3 3.5
¶602655857
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 11 06 47.9–.10 37.31N 141.35E 42–1 4.0
¶602655835
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 11 08 12.2–1.2 37.4N–.20 141.93E–.10 24 4.1b 14 1-146
IDC III 12 11 08 10.5–.81 37.71N 141.87E 0 4.2,4.1 **¶17194381**
JMA III 12 11 08 11.8–.30 37.22N 141.93E 72 4.0,4.1
ISCJB III 12 11 08 11.7–.76 37.6N–.10 141.92E–.09 24 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 11 11 56.3–.10 37.15N 141.31E 24–1 4.0
¶602655829
JMA Event type fe.
JMA III 12 11 16 50.8–.30 38.70N 142.23E 50 3.6
¶602655549
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 12 11 20 14.8–.55 38.65N–.05 142.54E–.06 20–3 4.7b 198 2-144
IDC III 12 11 20 11.7–.46 38.71N 142.48E 0 4.5,4.5b **¶17194390**
JMA III 12 11 20 14.2–.20 38.65N 142.53E 20 4.6,4.5b
ISCJB III 12 11 20 14.5–1.3 38.66N–.03 142.51E–.04 27–9 4.7b,4.5b
NEIC III 12 11 20 16.4–1.4 38.72N 142.43E 28–10 4.9b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=135.7.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=140.0.
JMA III 12 11 24 04.7–.10 38.50N 141.72E 43 3.8
¶602655529
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 12 11 25 43.6–.20 35.95N 141.71E 8–3 3.6
¶602655521
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 12 11 27 24.0–.83 36.21N–.07 141.10E–.10 31 3.7b 15 1-78
IDC III 12 11 27 19.5–.86 36.11N 141.13E 0 3.9,3.7b **¶602655512**
ISCJB III 12 11 27 22.6–.64 36.23N–.05 141.13E–.08 31 3.7b,3.7b
JMA III 12 11 27 22.6–.10 36.25N 141.10E 25–3 3.8,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=20.8km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.6km az=7.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 11 31 27.3–.55 37.72N–.06 141.99E–.06 24 4.2b 48 1-146
ISCJB III 12 11 31 24.9–.42 37.69N–.04 142.15E–.05 24 4.2b **¶602655504**
JMA III 12 11 31 27.8–.20 37.71N 141.99E 28 4.2
NEIC III 12 11 31 28.8–.71 37.72N 142.02E 36–6 4.5b
IDC III 12 11 31 29.1–2.7 37.71N 142.02E 38–23 4.1,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=43.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.7km az=120.0.
IDC Error ellipse: s-maj=17.9km s-min=13.0km az=96.0.
JMA III 12 11 32 45.4–.10 37.25N 141.49E 36–2 3.7
¶600541433
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 11 32 48.0–.10 40.19N 142.36E 23–1 3.7
¶602655497
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
JMA III 12 11 33 03.5–.20 38.18N 142.19E 27 4.1
¶602655496
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 12 11 37 05.0–.10 35.86N 140.98E 14–1 3.6
¶603049604
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 11 46 01.5–.34 35.77N–.03 141.66E–.03 19–1 5.5b,5.4s 1098 1-154
ISCJB III 12 11 45 58.3–.79 35.72N–.02 141.71E–.02 10–4 5.4b,5.3s **¶17194398**
IDC III 12 11 45 58.2–.31 35.78N 141.79E 0 5.2L,5.1
NEIC III 12 11 45 60.0–.09 35.74N 141.68E 10 5.6b,5.1
GCMT III 12 11 46 00.0–.40 35.83N 141.86E 12 5.3W,5.1
NIED III 12 11 46 00 35.90N 141.90E 17 5.3W,5.1
BJI III 12 11 46 00.9 35.75N 141.39E 16 5.4s,5.3b
JMA III 12 11 46 00.0–.20 35.88N 141.86E 26–3 5.5,5.3b
MOS III 12 11 46 01.5–.87 35.75N 141.75E 34 5.7b,5.2s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=157.0.
IDC Error ellipse: s-maj=9.9km s-min=8.8km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=143.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c22; s61,c87; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.21±.03 $M_{\theta\theta}$0.04±.02; $M_{\phi\phi}$-0.25±.02; $M_{r\theta}$0.81±.06; $M_{\theta\phi}$-0.24±.02; $M_{\phi r}$-0.63±.06; Best double couple: NP1:ϕ_s131.00000°,δ89.00000°,λ84.00000°. NP2:ϕ_s34.00000°,δ6.00000°,λ172.00000°. Principal axes: T 1.2160,Plg45.0000°,Azm35.0000°; N -0.3690,Plg6.0000°,Azm131.0000°; P -0.8480,Plg44.0000°,Azm227.0000° $M_0$1.03200×10^{17}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ39.00000°,λ-39.00000°. NP2:ϕ_s141.00000°,δ67.00000°,λ-122.00000°. $M_0$9.24000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=114.0.
JMA III 12 11 47 20.7–.20 37.35N 141.61E 17–3 4.5
¶602655469
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 11 51 56.1–.10 37.31N 141.54E 36–2 3.8
¶603049605
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 11 58 34.9–.20 35.62N 141.01E 25–1 3.3
¶603049607
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 11 59 08.8–1.6 35.57N–.07 141.0E–.10 46–15 4.3b 32 0-148
NIED III 12 11 59 00 35.60N 141.10E 35 4.6W **¶16425391**
JMA III 12 11 59 07.7–.20 35.64N 141.11E 41–1 4.4
ISCJB III 12 11 59 07.1–.78 35.60N–.04 141.12E–.08 49–5 4.3b
IDC III 12 11 59 12.0–3.3 35.51N 140.70E 66–26 4.2,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ9.00000°,λ-40.00000°. NP2:ϕ_s197.00000°,δ84.00000°,λ-97.00000°. $M_0$9.68000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.1km az=169.8.
IDC Error ellipse: s-maj=39.6km s-min=12.1km az=75.0.
ISC III 12 12 01 21.7–.49 36.02N–.05 141.15E–.07 21–4 4.2b 52 0-147
ISCJB III 12 12 01 18.8–1.2 36.20N–.04 141.27E–.05 8–7 4.2b **¶600541444**
JMA III 12 12 01 20.3–.20 36.16N 141.24E 27–3 4.3
IDC III 12 12 01 21.6–.75 35.96N 141.18E 21–3 4.4L,4.1
NEIC III 12 12 01 23.3–.43 36.01N 141.15E 35 4.7b,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.9km az=19.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=16.8km az=12.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.7km az=93.0.
ISC III 12 12 02 04.9–.73 39.00N–.10 142.5E–.10 27 4.3b 17 4-76
IDC III 12 12 02 00.6–.73 39.00N 142.35E 0 4.5,4.3 **¶17194406**
ISCJB III 12 12 02 02.9–.54 39.01N–.08 142.5E–.10 27 4.2b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 12 04 06.4–1.4 37.33N–.06 141.33E–.07 28–9 4.1b 47 0-152
IDC III 12 12 04 02.1–.62 37.34N 141.23E 0 4.3,4.1 **¶16442298**
ISCJB III 12 12 04 06.2–1.1 37.33N–.05 141.38E–.09 39–9 4.0b,4.1
JMA III 12 12 04 06.0–.10 37.33N 141.35E 27–1 4.2,4.1
NEIC III 12 12 04 08.8–1.0 37.37N 141.29E 46–9 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=16.7km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=8.9km az=17.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=118.0.
JMA III 12 12 12 19.6–.10 36.78N 140.62E 10–4 3.2
¶603049608
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 12 15 28.7–.77 39.63N–.05 142.77E–.05 20–4 4.8b 132 2-155
NIED III 12 12 15 00 39.60N 142.80E 5 4.8W **¶602655442**
IDC III 12 12 15 24.2–.55 39.34N 142.74E 0 4.7,4.6b
JMA III 12 12 15 26.0–.40 39.57N 142.81E 5–4 4.9,4.6b
ISCJB III 12 12 15 28.7–1.4 39.59N–.03 142.84E–.04 31–9 4.7b,3.8s
NEIC III 12 12 15 30.9–1.8 39.64N 142.61E 32–12 4.9b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ27.00000°,λ-127.00000°. NP2:ϕ_s47.00000°,δ69.00000°,λ-73.00000°. $M_0$1.88000×10^{16}
IDC Error ellipse: s-maj=14.8km s-min=12.9km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.2km az=147.9.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.8km az=145.0.
ISC III 12 12 18 44.1–.65 37.0N–.10 141.85E–.05 19 4.6b 39 1-152
ISCJB III 12 12 18 41.7–.57 36.83N–.10 141.98E–.04 19 4.5b **¶17194413**
IDC III 12 12 18 41.5–.83 37.21N 141.87E 0 4.7,4.5
JMA III 12 12 18 43.0–.30 36.67N 141.78E 18–3 4.7,4.5
NEIC III 12 12 18 46.8–.49 37.14N 141.73E 35 4.8b,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=4.9km az=4.7.
IDC Error ellipse: s-maj=26.2km s-min=18.7km az=167.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=10.2km az=150.0.
ISC III 12 12 24 27.1–.73 36.42N–.08 141.91E–.07 19 4.2b 39 1-147
ISCJB III 12 12 24 24.6–.55 36.35N–.06 141.98E–.07 19 4.1b **¶602655432**
IDC III 12 12 24 24.1–.78 36.36N 141.89E 0 4.2,4.1b
JMA III 12 12 24 27.0–.50 36.50N 141.92E 17 4.5,4.1b
NEIC III 12 12 24 29.4–.43 36.42N 141.83E 35 4.2b,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.3km az=160.9.
IDC Error ellipse: s-maj=20.3km s-min=18.0km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.6km az=131.0.
JMA III 12 12 29 39.0–.10 36.31N 140.84E 32–3 3.5
¶602655422
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 12 34 33.1–.10 37.23N 141.16E 49–1 3.9
¶602655402
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 12 36 54.9–.30 35.97N 141.91E 43 3.6
NIED III 12 12 36 00 36.00N 141.90E 56 4.5W **¶602655398**
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ27.00000°,λ-175.00000°. NP2:ϕ_s233.00000°,δ88.00000°,λ-63.00000°. $M_0$6.34000×10^{15}
ISC III 12 12 39 15.4–1.1 36.34N–.09 141.56E–.08 26 4.0b 14 1-75
IDC III 12 12 39 12.1–3.6 36.43N 141.73E 0 4.1,4.0 **¶16461447**
JMA III 12 12 39 22.2–.20 36.30N 141.39E 45 3.6,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=95.0km s-min=20.0km az=174.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 12 45 20.0–.20 37.38N 141.90E 9–3 3.7
¶602655380
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

JMA III 12 12 45 42.2–.20 39.22N 142.39E 13–2 4.0
¶602656135

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 12 12 58 10.5–.10 36.45N 141.49E 0 3.6
¶602656109

JMA III 12 13 01 57.8–.30 39.61N 142.63E 3–3 3.6
¶602656104

JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
JMA III 12 13 08 05.5–.20 37.65N 141.95E 21–3 3.2
¶603049610

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 13 08 41.5–.20 35.98N 141.00E 31–3 2.0
¶602655377

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 12 13 13 10.5–.20 37.22N 141.86E 25–3 3.6
¶602655361

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 13 13 45.3–.20 36.27N 141.74E 0 3.5
¶602655358

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 13 14 28.0–.62 35.69N–.04 140.95E–.05 33–4 4.8b 202 0-152
IDC III 12 13 14 22.8–.41 35.65N 140.88E 0 4.8,4.7 **¶16461450**
JMA III 12 13 14 27.5–.20 35.74N 141.02E 35–1 4.6,4.7
ISCJB III 12 13 14 28.0–.39 35.70N–.03 140.90E–.04 44–3 4.7b,4.7
NEIC III 12 13 14 29.8–.59 35.75N 140.87E 46–5 4.7b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=11.3km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.5km az=15.4.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=153.0.
ISC III 12 13 15 41.2–.37 37.24N–.02 141.30E–.03 34–1 6.1b,6.0s 1953 0-161
NIED III 12 13 15 00 37.20N 141.40E 44 6.2W,6.0s **¶16310815**
BJI III 12 13 15 38.2 37.10N 141.30E 30 6.3b,6.0s
MOS III 12 13 15 39.3–1.2 37.28N 141.46E 33 6.1b,5.9s
NEIC III 12 13 15 41.6–.08 37.25N 141.16E 38 6.1W,6.1W
NEIC III 12 13 15 41.0–.00 37.06N 141.77E 37 6.1W,6.1W
JMA III 12 13 15 41.7–.10 37.20N 141.43E 40–1 6.2,6.1W
ISCJB III 12 13 15 41.8–.27 37.25N–.02 141.30E–.01 50–2 6.0s,6.0b
GCMT III 12 13 15 41.7–.10 37.23N 141.53E 46–0 6.2W,6.0b
IDC III 12 13 15 43.4–1.9 37.24N 141.32E 53–17 5.6s,5.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ23.00000°,λ54.00000°. NP2:ϕ_s43.00000°,δ72.00000°,λ104.00000°. $M_0$1.91000×10^{18}
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=141.0. Felt [II] at Tokyo. Also felt at Ayase, Fussa, Hamura, Hirakata, Maebashi, Misawa, Nagano, Otawara, Sagamihara, Saku, Yokosuka and Zama. Recorded [5L JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}1.15 $M_{\theta\theta}$-0.63 $M_{\phi\phi}$-0.52 $M_{r\theta}$0.46 $M_{\theta\phi}$-0.90 $M_{\phi r}$0.65 Best double couple: NP1:ϕ_s236.00000°,δ30.00000°,λ105.00000°. NP2:ϕ_s39.00000°,δ61.00000°,λ82.00000°. Principal axes: T 1.3900,Plg73.0000°,Azm289.0000° ; N 0.3100,Plg7.0000°,Azm43.0000°; P -1.6900,Plg15.0000°,Azm135.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{18}Nm; M_{rr}1.58 $M_{\theta\theta}$-0.63 $M_{\phi\phi}$-0.94 $M_{r\theta}$0.81 $M_{\theta\phi}$-0.40 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s33.00000° ,δ68.00000°,λ90.00000°. NP2:ϕ_s215.00000°,δ22.00000°,λ91.00000°. Principal axes: T 2.2200,Plg66.0000°,Azm302.0000°; N -0.3600,Plg0.0000°,Azm33.0000° ; P -1.8500,Plg23.0000°,Azm123.0000° $M_0$2.10000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=158.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s131,c310; s141,c332;Duration: 3s0 Moment tensor: Scale 10^{18}Nm; M_{rr}1.67±.02 $M_{\theta\theta}$-0.34±.01; $M_{\phi\phi}$-1.34±.02; $M_{r\theta}$0.93±.02; $M_{\theta\phi}$-0.65±.01; $M_{\phi r}$1.22±.02; Best double couple: NP1:ϕ_s34.00000° ,δ66.00000°,λ96.00000°. NP2:ϕ_s199.00000°,δ24.00000°,λ77.00000°. Principal axes: T 2.2840,Plg68.0000°,Azm315.0000°; N -0.0460,Plg5.0000°,Azm211.0000° ; P -2.2460,Plg21.0000°,Azm119.0000° $M_0$2.26500×10^{18}
IDC Error ellipse: s-maj=8.8km s-min=7.7km az=81.0.
JMA III 12 13 20 39.9–.10 37.23N 141.39E 41–1 4.4
¶602655355

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 13 22 56.9–.20 35.74N 141.00E 34–1 3.8
¶602655345

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 13 23 04.2–.72 36.03N–.07 141.20E–.09 31 4.5b 34 0-118
IDC III 12 13 22 59.0–.83 36.15N 141.68E 0 4.5,4.4 **¶16476977**
NEIC III 12 13 23 01.4–.81 35.47N 141.38E 35 4.4b,4.4
ISCJB III 12 13 23 02.6–.54 36.05N–.05 141.25E–.07 31 4.3b,4.4
JMA III 12 13 23 04.6–.10 36.03N 141.06E 36–2 4.3,4.4
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=19.5km az=76.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=17.1km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.7km az=179.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 13 24 15.1–1.4 38.97N–.06 142.41E–.09 27 4.3b 19 1-63
ISCJB III 12 13 24 12.9–1.0 38.95N–.05 142.55E–.09 27 4.3b **¶17194432**
JMA III 12 13 24 13.9–.20 38.96N 142.47E 30 5.0
IDC III 12 13 24 22.9–1.2 37.22N 141.43E 0 4.5,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.3km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.4km s-min=27.5km az=123.0.
JMA III 12 13 25 02.5–.10 37.23N 141.03E 23–1 4.4
¶603049612

JMA Event type fe.
ISC III 12 13 26 56.0–.50 39.45N–.03 142.61E–.04 27–3 5.3s,5.2b 462 2-149
NIED III 12 13 26 00 39.50N 142.60E 32 5.0W,5.2b **¶16310816**
BJI III 12 13 26 52.7 39.44N 142.60E 22 5.8b,5.4s
JMA III 12 13 26 54.1–.30 39.53N 142.63E 7–3 5.4,5.4s
MOS III 12 13 26 56.3–1.4 39.60N 142.63E 33 5.4b,5.4s
ISCJB III 12 13 26 56.7–.49 39.44N–.02 142.61E–.03 45–3 5.3s,5.1b
NEIC III 12 13 26 57.3–.20 39.43N 142.37E 35 5.3b,5.1b
IDC III 12 13 26 57.5–3.2 39.51N 142.47E 33–24 4.9,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ106.00000°. NP2:ϕ_s2.00000°,δ72.00000°,λ85.00000°. $M_0$3.75000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=5.9km az=88.5.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=23.5.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=124.0. Recorded [2 JMA] in Akita, Aomori, Iwate, Miyagi and Yamagata.
IDC Error ellipse: s-maj=12.1km s-min=9.2km az=101.0.
JMA III 12 13 27 01.0–.10 37.21N 141.38E 39–1 3.7
¶602655341

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 13 37 27.7–.40 35.88N 141.08E 13–4 3.6
¶602655331

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 12 13 38 54.7–.10 37.23N 141.38E 41–1 3.0
¶602655325

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 13 39 20.5–2.0 39.61N–.08 142.9E–.10 35 3.9b 14 2-73
IDC III 12 13 39 08.1–1.0 39.34N 144.27E 0 4.5,4.5s **¶17194438**
JMA III 12 13 39 19.4–.20 39.66N 142.74E 15–2 4.0,4.5s
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=22.9km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 12 13 40 09.4–.10 37.21N 141.43E 38–1 3.5
¶602655323

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 13 40 56.9–.44 35.74N–.04 141.17E–.06 33 4.4b 82 0-148
NIED III 12 13 40 00 35.80N 141.10E 32 4.6W **¶16461455**
IDC III 12 13 40 51.8–.52 35.76N 141.26E 0 4.3,4.3
ISCJB III 12 13 40 54.9–.31 35.74N–.03 141.26E–.04 33 4.4b,4.3
JMA III 12 13 40 56.7–.20 35.81N 141.09E 34–1 4.5,4.3
NEIC III 12 13 40 57.1–.84 35.70N 141.17E 35–7 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ49.00000°,λ-160.00000°. NP2:ϕ_s116.00000°,δ75.00000°,λ-42.00000°. $M_0$1.02000×10^{16}
IDC Error ellipse: s-maj=16.5km s-min=10.8km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.5km az=11.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.1km az=91.0.
ISC III 12 13 49 04.1–.47 35.21N–.06 141.01E–.07 48 4.4b 73 2-148
IDC III 12 13 48 57.8–.51 35.24N 141.05E 0 4.5,4.4 **¶17194440**
ISCJB III 12 13 49 02.7–.31 35.25N–.04 140.93E–.05 48 4.4b,4.4
NEIC III 12 13 49 03.0–.31 35.29N 141.00E 35 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=12.4km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.7km az=15.3.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.3km az=168.0.
ISC III 12 13 51 13.0–2.1 36.98N–.05 141.71E–.07 23–15 4.2b 57 1-147
ISCJB III 12 13 51 12.8–.92 36.93N–.04 141.81E–.06 39–8 4.1b **¶602655305**
JMA III 12 13 51 13.5–.20 36.98N 141.64E 19–2 4.0
IDC III 12 13 51 15.8–1.6 36.90N 141.79E 50–16 4.2,4.1
NEIC III 12 13 51 16.0–.88 36.93N 141.76E 52–8 4.2b,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.8km az=162.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=10.6km az=84.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.6km az=71.0.
ISC III 12 13 57 10.8–.46 36.39N–.03 141.88E–.04 23–2 5.2b,4.9s 681 1-154
NIED III 12 13 57 00 36.40N 141.90E 17 4.9W,4.9s **¶16310817**
IDC III 12 13 57 07.4–.31 36.35N 141.95E 0 4.8,4.7
BJI III 12 13 57 09.8 36.22N 141.61E 21 5.3b,5.1b
ISCJB III 12 13 57 10.1–.79 36.38N–.02 141.92E–.02 26–5 5.0b,4.9s
JMA III 12 13 57 11.0–.30 36.43N 141.89E 27 5.0,4.9s
NEIC III 12 13 57 12.7–.12 36.34N 141.80E 35 5.2b,4.9s
MOS III 12 13 57 13.4–.96 36.79N 141.83E 38 5.3b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ34.00000°,λ-149.00000°. NP2:ϕ_s177.00000°,δ73.00000°,λ-60.00000°. $M_0$2.19000×10^{16}
IDC Error ellipse: s-maj=9.7km s-min=8.5km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=159.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=150.0.
MOS Error ellipse: s-maj=6.6km s-min=4.8km az=96.1.
JMA III 12 13 58 32.7 36.55N 140.83E 28–2 4.2
¶602655300

JMA Event type fe.
JMA III 12 14 01 56.9–.20 36.94N 141.91E 12–2 4.6
¶602655289

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 14 02 20.5–1.1 40.1N–.10 141.8E–.20 55 4.0b 10 4-72
IDC III 12 14 02 13.2–1.1 40.16N 141.93E 0 4.1,4.1L **¶17194447**
ISCJB III 12 14 02 18.5–.90 40.1N–.10 141.8E–.20 55 4.0b,4.1L
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 03 29.5–.27 38.81N–.03 142.67E–.03 24–1 5.8b,5.3s 1031 2-159
NIED III 12 14 03 00 38.80N 142.70E 20 5.5W,5.3s **¶602655285**
IDC III 12 14 03 25.9–.30 38.81N 142.68E 0 5.3,5.2
JMA III 12 14 03 26.8–.40 38.78N 142.74E 7 5.8,5.2
BJI III 12 14 03 27.4 38.80N 142.57E 23 5.7b,5.6s
ISCJB III 12 14 03 28.5–.71 38.77N–.02 142.63E–.02 26–4 5.6b,5.4s
MOS III 12 14 03 29.0–1.1 38.89N 142.70E 33 6.0b,5.2s
NEIC III 12 14 03 31.3–.09 38.79N 142.55E 35 5.8b,5.3s
GCMT III 12 14 03 31.3–.20 38.76N 142.72E 26–0 5.6W,5.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ38.00000°,λ-121.00000°. NP2:ϕ_s2.00000°,δ58.00000°,λ-68.00000°. $M_0$1.78000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=7.8km az=92.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=145.1.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=97.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=136.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c62; s102,c177; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.30±.10 $M_{\theta\theta}$0.18±.06; $M_{\phi\phi}$2.12±.06; $M_{r\theta}$-0.80±.14; $M_{\theta\phi}$-0.69±.03; $M_{\phi r}$-1.31±.12; Best double couple: NP1:ϕ_s4.00000°,δ61.00000° ,λ-67.00000°. NP2:ϕ_s144.00000°,δ36.00000°,λ-125.00000°. Principal axes: T 2.5730,Plg13.0000°,Azm78.0000°; N 0.3790,Plg20.0000°,Azm173.0000° ; P -2.9540,Plg66.0000°,Azm317.0000° $M_0$2.76400×10^{17}
JMA III 12 14 03 38.4–.20 37.20N 141.37E 39–2 3.1
¶16310181

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 14 11 50.0–.10 37.21N 141.39E 39–1 3.7
¶602655277

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 14 12 23.0–.20 37.21N 141.39E 36–2 4.1
¶602655274

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 14 13 07.9–.20 36.27N 141.82E 17 3.8
¶602655271

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 14 14 53.3–.81 35.79N–.04 140.80E–.04 17–5 4.8b 173 0-155
NIED III 12 14 14 00 35.90N 140.90E 5 4.7W **¶602655267**
IDC III 12 14 14 50.7–.36 35.83N 140.89E 0 4.6,4.5
JMA III 12 14 14 51.6–.10 35.90N 140.94E 11–2 5.0,4.5
ISCJB III 12 14 14 51.1–.18 35.73N–.03 140.73E–.03 10 4.7b,4.5
BJI III 12 14 14 52.3 35.71N 140.85E 28 5.2b,5.0s
NEIC III 12 14 14 56.4–.22 35.72N 140.67E 35 4.9b,5.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ41.00000°,λ-34.00000°. NP2:ϕ_s140.00000°,δ68.00000°,λ-126.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=9.2km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=176.5.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=139.0. Recorded [3 JMA] in Chiba and Ibaraki.
JMA III 12 14 15 04.6–.10 37.21N 141.40E 39–1 4.1
¶602655265

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 14 17 01.7–1.7 36.24N–.04 141.06E–.05 15–10 4.2b 53 1-147
IDC III 12 14 16 59.3–.56 36.23N 141.20E 0 4.3,4.3L **¶600541601**
ISCJB III 12 14 17 02.4–1.4 36.19N–.03 141.24E–.05 33–10 4.2b,4.3L
NEIC III 12 14 17 03.1–2.0 36.19N 141.15E 26–15 4.5b,4.3L
JMA III 12 14 17 05.0–.10 36.30N 141.06E 42–3 4.4,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=14.1km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=169.5.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 14 18 05.3–.10 37.61N 141.70E 43–2 4.1
¶602655186

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 14 21 52.9–.69 39.38N–.03 142.86E–.05 42–5 4.5b 156 2-145
JMA III 12 14 21 50.4–.30 39.45N 142.84E 19–5 4.8 **¶16461458**
ISCJB III 12 14 21 52.1–.52 39.38N–.02 142.84E–.04 49–4 4.5b
NEIC III 12 14 21 54.0–.68 39.39N 142.69E 50–6 4.5b
IDC III 12 14 21 54.6–1.9 39.35N 142.72E 56–18 4.4,4.2
ISC Event type se.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.4km az=20.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.8km az=126.0.
IDC Error ellipse: s-maj=12.6km s-min=10.2km az=118.0.
JMA III 12 14 33 40.4–.10 36.12N 141.20E 25–3 3.8
¶602655158

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 14 34 58.9–.42 35.81N–.03 141.71E–.03 20–2 5.5b,5.5s 842 1-154
NIED III 12 14 34 00 35.90N 141.80E 17 5.4W,5.5s **¶600541633**
IDC III 12 14 34 55.8–.31 35.80N 141.76E 0 5.2,5.2
ISCJB III 12 14 34 57.0–.81 35.80N–.02 141.70E–.02 16–5 5.5s,5.5b
BJI III 12 14 34 58.1 35.80N 141.59E 22 5.5b,5.5s
JMA III 12 14 34 58.3–.20 35.88N 141.83E 22–3 5.6,5.5s
MOS III 12 14 34 59.5–1.1 35.82N 141.77E 34 5.8b,5.7s
GCMT III 12 14 35 01.1–.30 35.74N 141.69E 17–1 5.4W,5.7s
NEIC III 12 14 35 01.1–.12 35.78N 141.66E 35 5.6b,5.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ27.00000°,λ138.00000°. NP2:ϕ_s126.00000°,δ72.00000°,λ70.00000°. $M_0$1.39000×10^{17}
IDC Error ellipse: s-maj=9.8km s-min=8.6km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.2km az=116.6.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c42; s81,c129; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.19±.08 $M_{\theta\theta}$-0.28±.04; $M_{\phi\phi}$-0.91±.05; $M_{r\theta}$1.42±.14; $M_{\theta\phi}$-0.07±.03; $M_{\phi r}$-0.33±.10; Best double couple: NP1:ϕ_s112.00000°,δ76.00000°,λ82.00000°. NP2:ϕ_s322.00000°,δ16.00000°,λ119.00000°. Principal axes: T 2.0890,Plg58.0000°,Azm12.0000°; N -0.9010,Plg8.0000°,Azm114.0000°; P -1.1910,Plg31.0000°,Azm209.0000° $M_0$1.64000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=131.0. Recorded [5L JMA] in Nagano.
JMA III 12 14 40 30.5–.10 35.85N 140.95E 13–2 3.4
¶603049618

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 14 43 08.4–.30 39.45N–.03 142.58E–.03 20–1 5.7b,5.5s 1611 2-159
NIED III 12 14 43 00 39.50N 142.70E 20 5.7W,5.5s **¶602655123**
BJI III 12 14 43 05.3 39.34N 142.62E 22 6.0b,5.9
JMA III 12 14 43 05.9–.20 39.47N 142.70E 9–2 5.9,5.9
IDC III 12 14 43 05.8–.32 39.51N 142.52E 0 5.4,5.4s
ISCJB III 12 14 43 06.5–.65 39.43N–.01 142.54E–.02 14–4 5.7b,5.6s
MOS III 12 14 43 08.6–1.1 39.56N 142.56E 34 6.1b,5.5s
NEIC III 12 14 43 10.8–.09 39.47N 142.41E 35 5.7b,5.5s
GCMT III 12 14 43 10.9–.20 39.52N 142.52E 15–0 5.8W,5.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ10.00000°,λ74.00000°. NP2:ϕ_s0.00000°,δ81.00000°,λ93.00000°. $M_0$3.64000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=9.3km s-min=8.9km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=155.9.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=97.2.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=139.0. Recorded [4 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c74; s102,c172; Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.05 $M_{\theta\theta}$0.14±.04; $M_{\phi\phi}$-1.02±.04; $M_{r\theta}$0.15±.16; $M_{\theta\phi}$0.14±.03; $M_{\phi r}$5.80±.40; Best double couple: NP1:ϕ_s1.00000°,δ85.00000°,λ92.00000°. NP2:ϕ_s162.00000°,δ5.00000°,λ71.00000°. Principal axes: T 5.8150,Plg50.0000°,Azm273.0000°; N 0.1370,Plg2.0000°,Azm181.0000°; P -5.9470,Plg40.0000°,Azm90.0000° $M_0$5.88100×10^{17}
JMA III 12 14 45 53.0–.20 35.98N 141.40E 20 3.8
¶602655121

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 14 52 44.8–.20 39.59N 142.56E 25–2 3.9
¶602655115

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 12 14 53 59.3–.10 36.05N 141.30E 22–2 3.5
¶603049619

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 14 56 39.9–.54 39.26N–.05 142.34E–.07 35 4.4b 90 1-116
ISCJB III 12 14 56 38.1–.40 39.27N–.04 142.45E–.06 35 4.3b **¶16461395**
NEIC III 12 14 56 40.7–.51 39.39N 142.20E 35 4.3b
JMA III 12 14 56 40.4–.30 39.28N 142.30E 46 4.4
IDC III 12 14 56 43.4–2.3 39.25N 142.20E 65–20 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=38.5.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.1km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=13.4km az=122.0.
ISC III 12 14 57 52.9–2.4 37.7N–.30 141.6E–.20 60 4.0b 9 10-74
IDC III 12 14 57 43.1–3.2 37.38N 141.70E 0 4.1,4.0 **¶16477023**
ISC Event type ke.
IDC Error ellipse: s-maj=67.3km s-min=30.4km az=173.0.
JMA III 12 15 06 39.6–.10 37.22N 141.39E 39–1 3.7
¶602655091

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 15 10 47.8–1.5 37.30N–.06 141.08E–.07 10–8 4.2b 40 0-147
JMA III 12 15 10 43.4–.10 37.30N 141.31E 28–1 3.8 **¶16461464**
NEIC III 12 15 10 48.0–.47 36.67N 141.80E 35 4.1b
IDC III 12 15 10 49.1–2.1 36.65N 141.83E 45–20 4.2L,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=126.0.
IDC Error ellipse: s-maj=19.3km s-min=12.4km az=91.0.
ISC III 12 15 13 32.1–.90 39.70N–.10 142.72E–.09 29 4.0b 25 2-81
NIED III 12 15 13 00 39.70N 142.70E 8 4.7W **¶602655086**
JMA III 12 15 13 28.3–.40 39.65N 142.72E 8–4 4.4
ISCJB III 12 15 13 29.9–.66 39.68N–.07 142.80E–.07 29 3.9b
IDC III 12 15 13 34.5–3.1 39.74N 142.65E 48–28 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ30.00000°,λ151.00000°. NP2:ϕ_s215.00000°,δ76.00000°,λ63.00000°. $M_0$1.10000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.0km az=163.0.
IDC Error ellipse: s-maj=37.1km s-min=18.5km az=148.0.
ISC III 12 15 15 14.7–.68 37.09N–.10 141.92E–.06 19 4.3b 28 1-83
ISCJB III 12 15 15 12.6–.54 37.04N–.08 142.02E–.05 19 4.2b,3.9s **¶16461467**
JMA III 12 15 15 14.1–.20 37.05N 141.89E 15–2 4.3,3.9s
IDC III 12 15 15 18.4–3.7 36.99N 142.04E 54–33 4.2,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.3km az=5.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.0km s-min=15.5km az=75.0.
ISC III 12 15 24 34.0–1.3 38.17N–.04 142.20E–.07 47–11 4.1b 84 1-146
JMA III 12 15 24 32.0–.30 38.15N 142.20E 34 4.1 **¶602655075**
ISCJB III 12 15 24 32.3–.68 38.16N–.02 142.22E–.05 48–5 4.0b
NEIC III 12 15 24 33.4–.46 38.30N 142.27E 35 4.0b
IDC III 12 15 24 36.4–2.5 38.25N 142.16E 64–22 4.0,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=3.7km az=13.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.3km az=122.0.
IDC Error ellipse: s-maj=16.1km s-min=12.2km az=106.0.
IDC III 12 15 30 05.2–3.8 37.88N 141.63E 0 3.8,3.5
¶17194476

IDC Error ellipse: s-maj=360.1km s-min=24.1km az=110.0.
ISC III 12 15 34 12.3–1.7 36.60N–.09 141.2E–.10 20–7 3.8b 19 1-57
IDC III 12 15 34 08.0–2.6 36.63N 141.51E 0 3.9,3.8 **¶16477037**
JMA III 12 15 34 14.4–.10 36.63N 141.09E 38–3 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=28.4km az=64.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 15 36 29.1–.10 35.87N 140.92E 9–1 2.0
¶603049623

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 15 38 54.2–.45 38.23N–.07 142.95E–.07 18 4.7b 168 4-145
ISCJB III 12 15 38 53.3–.22 38.30N–.04 142.78E–.04 18 4.6b **¶602655045**
NEIC III 12 15 38 57.9–.69 38.33N 142.73E 41–6 4.6b
IDC III 12 15 38 59.0–2.2 38.26N 142.78E 52–19 4.6,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=158.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.5km az=147.0.
IDC Error ellipse: s-maj=12.0km s-min=10.2km az=115.0.
JMA III 12 15 41 05.6–.20 35.99N 141.11E 21–4 2.9
¶603049625

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 12 15 45 35.5–.10 36.22N 141.12E 47–4 3.6
NIED III 12 15 45 00 36.20N 141.10E 26 4.4W **¶603049626**
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ44.00000°,λ-37.00000°. NP2:ϕ_s352.00000°,δ65.00000°,λ-128.00000°. $M_0$3.92000×10^{15}
JMA III 12 15 49 33.6–.10 36.78N 140.63E 7–4 3.5
¶17194482

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 15 54 11.6–.20 35.87N 141.08E 18–2 2.1
¶603049628

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 15 55 18.7–.87 36.45N–.05 141.70E–.07 33–3 4.8b 130 1-147
NIED III 12 15 55 00 36.50N 141.50E 26 4.6W **¶16461399**
ISCJB III 12 15 55 18.2–.81 36.46N–.03 141.69E–.06 42–6 4.7b,3.9s
NEIC III 12 15 55 19.6–.95 36.43N 141.61E 43–8 4.8b,3.9s
JMA III 12 15 55 19.4–.20 36.47N 141.52E 28 4.6,3.9s
IDC III 12 15 55 20.7–1.8 36.45N 141.63E 48–17 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ27.00000°,λ-111.00000°. NP2:ϕ_s356.00000°,δ65.00000°,λ-80.00000°. $M_0$9.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.3km az=8.9.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.9km az=91.0.
JMA Event type fe.
IDC Error ellipse: s-maj=14.5km s-min=10.8km az=98.0.
ISC III 12 16 01 08.6–2.1 38.6N–.30 142.0E–.30 51 3.8b 7 4-73
IDC III 12 16 01 03.1–2.7 38.86N 141.95E 0 4.1L,4.0 **¶17194489**
ISCJB III 12 16 01 07.0–1.8 38.7N–.20 142.0E–.30 51 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 16 01 46.0–.10 36.05N 141.05E 34–2 3.3
¶603049629

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 16 06 36.5–.10 37.42N 141.40E 38–2 3.7
¶602655795

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 16 07 36.1–4.1 38.95N–.04 142.76E–.07 23–29 4.6b 74 2-145
IDC III 12 16 07 32.3–.59 38.94N 142.72E 0 4.4,4.2 **¶16476704**
JMA III 12 16 07 34.6–.50 39.00N 142.64E 11–4 4.7,4.2
ISCJB III 12 16 07 35.7–.83 38.91N–.03 142.73E–.06 34–8 4.5b,4.2
NEIC III 12 16 07 37.8–.24 38.96N 142.68E 35 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=129.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.4km az=14.2.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.5km az=132.0.
JMA III 12 16 08 27.3–.10 37.31N 141.09E 26–1 3.5
NIED III 12 16 08 00 37.30N 141.10E 35 4.3W **¶600541785**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ61.00000°,λ21.00000°. NP2:ϕ_s156.00000°,δ72.00000°,λ149.00000°. $M_0$2.90000×10^{15}
JMA III 12 16 10 46.8–.10 37.37N 141.33E 24–1 4.0
¶602655789

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 16 13 46.3–.72 35.68N–.09 140.9E–.10 39–5 4.0b 31 0-148
NIED III 12 16 13 00 35.80N 141.10E 14 4.1W **¶16461474**
IDC III 12 16 13 41.1–.78 35.61N 140.88E 0 4.1,4.0
ISCJB III 12 16 13 44.6–.82 35.57N–.08 140.94E–.08 43–5 4.0b,4.0
NEIC III 12 16 13 46.0–.50 35.61N 140.84E 35 4.1b,4.0
JMA III 12 16 13 46.3–.20 35.79N 141.05E 35–1 3.7,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ69.00000°,λ1.00000°. NP2:ϕ_s158.00000°,δ89.00000°,λ159.00000°. $M_0$1.85000×10^{15}
IDC Error ellipse: s-maj=26.0km s-min=19.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=11.5km az=169.1.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.6km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 16 15 02.3–.89 38.2N–.20 143.0E–.20 18 4.1b 13 46-145
IDC III 12 16 14 59.5–.79 38.18N 142.96E 0 4.2,4.0 **¶603049630**
ISCJB III 12 16 15 00.4–.71 38.1N–.10 142.9E–.20 18 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 16 16 42.6–.10 37.42N 141.45E 37–1 3.7
¶602655783

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 16 19 17.2–.10 37.29N 141.27E 43–1 3.5
¶603049631

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 16 31 28.0–1.5 36.2N–.10 142.0E–.10 23 3.6b 11 1-56
JMA III 12 16 31 26.5–.30 36.36N 142.00E 30 3.5 **¶600541821**
ISCJB III 12 16 31 26.6–1.3 36.3N–.10 142.0E–.10 23 3.6b
IDC III 12 16 31 27.6–1.3 36.68N 141.72E 0 3.9,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=9.4km az=145.0.
IDC Error ellipse: s-maj=28.9km s-min=26.5km az=112.0.
JMA III 12 16 34 12.4–.20 35.66N 141.03E 38–1 2.6
¶603049633

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 16 35 00.8–.20 39.12N 142.39E 11–2 3.8
¶602655751

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 16 36 28.9–2.0 36.61N–.06 141.69E–.10 16–10 4.0b 20 1-75
IDC III 12 16 36 24.9–2.0 36.71N 142.12E 0 4.1,4.1 **¶16477064**
JMA III 12 16 36 29.9–.30 36.62N 141.65E 23 3.9,4.1
ISCJB III 12 16 36 29.1–1.6 36.63N–.05 141.75E–.08 28–10 4.0b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 16 42 47.1–2.0 34.95N–.05 140.95E–.07 10–13 3.7b 24 0-79
IDC III 12 16 42 45.8–.80 34.94N 140.71E 0 4.0,3.8 **¶600541830**
JMA III 12 16 42 47.8–.20 34.90N 141.14E 43–3 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=15.0km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 16 43 55.3–.20 36.03N 141.04E 32–2 3.5
¶602655742

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 16 46 12.3–1.0 36.58N–.08 141.7E–.10 26 4.0b 14 1-75
IDC III 12 16 46 08.5–1.0 36.55N 141.74E 0 4.2,4.1b **¶17194504**
ISCJB III 12 16 46 10.2–.84 36.53N–.08 141.74E–.10 26 4.0b,4.1b
JMA III 12 16 46 10.7–.50 36.45N 141.66E 42 4.0,4.1b
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=20.2km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=9.9km az=136.1.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
JMA III 12 16 47 18.0–.20 36.93N 141.18E 43–2 3.7
¶603049634

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 16 51 00.0–.20 36.65N 141.01E 43–3 3.9
¶602655738

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 16 53 25.7–.20 39.07N 142.41E 20–2 4.1
¶602655737

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 16 53 53.8 36.71N 140.69E 14–2 3.1
¶603049635

JMA III 12 16 56 00.9–.30 35.64N 141.01E 25–1 3.1
¶16852246

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 12 16 56 39.3–.20 39.99N 142.38E 31–3 3.6
¶603049636

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 16 59 22.4–.68 37.45N–.09 141.57E–.07 60 4.2b 51 1-146
NIED III 12 16 59 00 36.70N 141.20E 20 4.1W **¶602655724**
IDC III 12 16 59 14.2–.68 37.44N 141.74E 0 4.3,4.2b
ISCJB III 12 16 59 19.3–.48 37.28N–.06 141.64E–.05 60 4.1b,4.2b
NEIC III 12 16 59 19.1–.50 37.34N 141.61E 35 4.4b,4.2b
JMA III 12 16 59 21.5–.20 36.68N 141.15E 29–3 4.6,4.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ78.00000°,λ-173.00000°. NP2:ϕ_s238.00000°,δ83.00000°,λ-12.00000°. $M_0$1.73000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=14.7km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.2km az=153.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=8.0km az=140.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 17 04 31.0–.64 38.64N–.04 142.25E–.06 41–5 4.4b 89 1-145
NIED III 12 17 04 00 38.70N 142.20E 38 4.3W **¶16461404**
JMA III 12 17 04 30.7–.20 38.68N 142.21E 35–3 4.4
ISCJB III 12 17 04 30.6–.66 38.66N–.03 142.23E–.06 55–5 4.3b
NEIC III 12 17 04 31.6–.70 38.66N 142.21E 47–6 4.8b
IDC III 12 17 04 31.3–.62 38.70N 142.17E 39–5 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ12.00000°,λ100.00000°. NP2:ϕ_s8.00000°,δ78.00000°,λ88.00000°. $M_0$3.60000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=10.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.0km az=112.0.
IDC Error ellipse: s-maj=15.5km s-min=12.4km az=114.0.
JMA III 12 17 15 11.2–.20 36.05N 141.32E 21–3 3.5
¶602655691

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 12 17 20 07.7–.20 36.36N 140.95E 43–4 3.5
¶16310198

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 17 23 11.4–2.5 36.66N–.06 141.8E–.10 15–13 3.9b 17 1-57
IDC III 12 17 23 07.5–2.4 36.78N 142.23E 0 3.9,3.9 **¶16461481**
JMA III 12 17 23 12.7–.20 36.68N 141.76E 12–5 4.1,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=57.4km s-min=26.4km az=74.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 12 17 24 21.3 37.35N 141.15E 10–1 3.5
¶603049641

JMA Event type fe.
ISC III 12 17 25 47.5–1.6 36.98N–.09 141.6E–.10 33 3.7b 16 1-57
IDC III 12 17 25 44.4–7.4 37.35N 141.97E 33–49 4.1L,3.9 **¶17194520**
ISCJB III 12 17 25 48.4–1.3 36.80N–.06 141.6E–.10 33 3.7b,3.9
JMA III 12 17 25 53.6–.20 36.82N 141.14E 45–2 4.2,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=60.7km s-min=20.1km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=6.4km az=153.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 12 17 30 41.3–.20 39.12N 142.06E 25–2 3.6
¶603049642

JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.
JMA III 12 17 31 42.2–.40 36.65N 142.00E 60 3.5
¶602655622

JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
ISC III 12 17 35 21.3–1.6 36.57N–.05 141.19E–.07 25–12 3.9b 32 1-60
ISCJB III 12 17 35 20.3–.78 36.53N–.03 141.23E–.07 34–8 3.9b,3.0s **¶600541982**
NEIC III 12 17 35 21.6–2.9 36.47N 141.22E 27–22 4.4b,3.0s
JMA III 12 17 35 23.3–.10 36.62N 140.96E 41–3 4.1,3.0s
IDC III 12 17 35 24.1–2.7 36.44N 141.11E 51–25 4.2L,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.1km az=177.9.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.3km az=89.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=13.9km az=57.0.
ISC III 12 17 40 56.8–.43 38.69N–.05 142.63E–.06 38–1 4.7b 219 2-145
NIED III 12 17 40 00 38.80N 142.60E 26 4.7W **¶16310831**
JMA III 12 17 40 55.4–.30 38.81N 142.56E 18 4.9
NEIC III 12 17 40 56.5–.52 38.72N 142.51E 28–3 4.7b
IDC III 12 17 40 56.8–.54 38.71N 142.64E 37–4 4.4,4.3
ISCJB III 12 17 40 57.5–.69 38.74N–.04 142.47E–.04 49–6 4.6b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ13.00000°,λ-68.00000°. NP2:ϕ_s174.00000°,δ78.00000°,λ-95.00000°. $M_0$1.16000×10^{16}
JMA Event type fe.
NEIC Event type se.
ISCJB Event type fe.
ISC III 12 17 53 08.4–.83 35.85N–.07 140.94E–.09 42–7 4.1b 18 0-91
NIED III 12 17 53 00 35.90N 140.90E 20 4.4W **¶600542054**
JMA III 12 17 53 07.8–.20 35.94N 140.87E 37–2 3.7
ISCJB III 12 17 53 07.4–.75 35.82N–.06 140.95E–.10 51–6 4.0b
IDC III 12 17 53 10.5–2.5 35.80N 140.65E 62–23 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ53.00000°,λ-34.00000°. NP2:ϕ_s243.00000°,δ64.00000°,λ-137.00000°. $M_0$4.48000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=10.0km az=156.1.
IDC Error ellipse: s-maj=27.1km s-min=13.3km az=77.0.
ISC III 12 18 09 13.7–.43 37.35N–.04 141.43E–.04 25–2 4.5b 133 0-147
NIED III 12 18 09 00 37.40N 141.30E 32 4.3W **¶602654954**
ISCJB III 12 18 09 12.6–.76 37.37N–.03 141.42E–.04 24–5 4.4b
IDC III 12 18 09 13.9–.38 37.39N 141.32E 27–2 4.3,4.3
JMA III 12 18 09 14.3–.10 37.39N 141.30E 28–1 4.5,4.3
NEIC III 12 18 09 17.5–.92 37.33N 141.27E 54–9 4.6b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ59.00000°,λ-25.00000°. NP2:ϕ_s266.00000°,δ69.00000°,λ-146.00000°. $M_0$3.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.5km az=39.1.
IDC Error ellipse: s-maj=12.1km s-min=9.5km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.5km az=129.0. Recorded [4 JMA] in Fukushima.
ISC III 12 18 14 24.2–1.2 36.30N–.04 140.89E–.06 27–10 4.2b 25 1-75
IDC III 12 18 14 19.6–1.5 36.47N 141.18E 0 4.1,4.0b **¶602654940**
NEIC III 12 18 14 24.2–.69 36.56N 141.18E 35 4.5b,4.0b
ISCJB III 12 18 14 24.0–.75 36.27N–.04 140.98E–.07 45–6 4.1b,4.0b
JMA III 12 18 14 24.7–.10 36.24N 140.90E 40–2 3.4,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=20.6km az=67.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=12.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.8km az=168.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 18 17 14.1–.58 35.45N–.04 141.10E–.07 33 3.9b 30 0-91
NIED III 12 18 17 00 35.50N 141.10E 38 4.1W **¶602654932**
IDC III 12 18 17 09.8–.70 35.38N 141.27E 0 4.2,4.0
NEIC III 12 18 17 10.8–.50 35.41N 141.20E 10 4.3b,4.0
ISCJB III 12 18 17 12.8–.48 35.44N–.04 141.16E–.08 33 4.1b,4.0
JMA III 12 18 17 13.7–.20 35.46N 141.10E 28–2 3.5,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ10.00000°,λ77.00000°. NP2:ϕ_s351.00000°,δ81.00000°,λ92.00000°. $M_0$1.85000×10^{15}
IDC Error ellipse: s-maj=27.0km s-min=15.2km az=107.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=9.4km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.3km az=11.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 18 20 20.8–.61 37.55N–.07 141.87E–.06 24 3.7b 29 1-90
IDC III 12 18 20 17.2–.65 37.59N 141.95E 0 3.9,3.8 **¶17194534**
ISCJB III 12 18 20 18.9–.47 37.52N–.06 141.91E–.06 24 3.7b,3.8
JMA III 12 18 20 20.1–.30 37.57N 141.81E 21–3 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=17.3km s-min=14.4km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.7km az=149.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 12 18 23 28.0–1.6 35.22N 141.17E 0 4.5,4.5s
¶602654907

IDC Error ellipse: s-maj=45.6km s-min=30.2km az=92.0.
JMA III 12 18 37 25.9–.10 37.28N 141.45E 39–1 3.8
¶602654872

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 18 40 20.2–.10 37.20N 141.40E 40–1 3.9
¶602654869

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 12 18 51 10.6–1.5 35.95N 141.91E 0 4.0,3.7
¶16477124

IDC Error ellipse: s-maj=149.4km s-min=21.8km az=106.0.
ISC III 12 18 51 37.8–.95 36.55N–.04 141.74E–.06 34–3 4.4b 105 1-147
NIED III 12 18 51 00 36.60N 141.80E 20 4.3W **¶17194545**
JMA III 12 18 51 34.4–.30 36.59N 141.83E 15 4.2
ISCJB III 12 18 51 36.9–.69 36.53N–.03 141.75E–.05 40–5 4.3b
IDC III 12 18 51 38.7–2.7 36.60N 141.69E 39–23 4.2,4.1
NEIC III 12 18 51 38.3–.72 36.57N 141.69E 36–6 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ43.00000°,λ-97.00000°. NP2:ϕ_s4.00000°,δ48.00000°,λ-84.00000°. $M_0$2.76000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.1km az=173.8.
IDC Error ellipse: s-maj=15.3km s-min=13.0km az=80.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=6.3km az=116.0. Recorded [1 JMA] in Aomori.
ISC III 12 18 54 06.2–.50 36.61N–.04 141.79E–.05 19 4.1b 63 1-147
NIED III 12 18 54 00 36.70N 142.00E 23 4.4W **¶600542210**
ISCJB III 12 18 54 04.1–.34 36.60N–.03 141.92E–.04 19 4.1b,4.0s
JMA III 12 18 54 05.5–.20 36.66N 141.98E 49 4.1,4.0s
IDC III 12 18 54 09.8–2.5 36.60N 141.77E 45–23 4.1,4.0
NEIC III 12 18 54 10.8–.88 36.57N 141.68E 58–7 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ41.00000°,λ-105.00000°. NP2:ϕ_s188.00000°,δ50.00000°,λ-77.00000°. $M_0$3.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.2km az=11.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=14.0km az=98.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.9km az=116.0.
JMA III 12 18 55 03.0–.10 35.89N 140.94E 5–2 2.7
¶603049648

IDC III 12 18 55 38.1–8.4 34.76N 140.84E 0 4.0,3.9
¶17194547

IDC Error ellipse: s-maj=342.5km s-min=29.0km az=68.0.
JMA III 12 18 56 40.5–.10 37.20N 141.16E 14–1 3.5
¶602654842

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 18 58 16.3–.54 38.71N–.05 142.98E–.06 20–2 4.2b 67 2-88
JMA III 12 18 58 15.2–.30 38.81N 142.80E 0 4.2 **¶602654840**
IDC III 12 18 58 17.0–.57 38.81N 142.88E 20–2 4.1,4.1
NEIC III 12 18 58 19.3–1.1 38.77N 142.92E 42–9 4.4b,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=17.0km s-min=11.7km az=88.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.8km az=107.0.
JMA III 12 18 58 24.5 37.28N 141.09E 21 3.5
¶602654838

JMA Event type fe.
ISC III 12 19 02 55.9–1.1 36.5N–.20 142.0E–.20 19 3.9b 7 28-75
IDC III 12 19 02 53.0–.91 36.48N 141.98E 0 4.0,3.8 **¶17194549**
ISCJB III 12 19 02 53.7–.90 36.4N–.10 142.0E–.20 19 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 19 07 33.9–1.2 39.13N–.10 142.5E–.10 27 3.8b 12 1-73
ISCJB III 12 19 07 31.9–.98 39.09N–.09 142.61E–.09 27 3.8b **¶16477131**
JMA III 12 19 07 34.1–.20 39.14N 142.40E 18–2 4.0
IDC III 12 19 07 39.5–4.5 39.03N 142.27E 78–42 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=9.5km az=7.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.7km s-min=24.7km az=84.0.
ISC III 12 19 08 03.0–1.3 36.87N–.07 141.4E–.10 33 3.8b 15 1-74
IDC III 12 19 07 55.4–1.9 36.97N 142.05E 0 3.8,3.8 **¶17194550**
ISCJB III 12 19 08 03.8–1.3 36.81N–.05 141.4E–.10 33 3.7b,3.8
JMA III 12 19 08 06.4–.20 36.85N 141.13E 44–2 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=45.1km s-min=25.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=15.2km s-min=6.4km az=163.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 19 12 13.1–.20 35.99N 141.12E 21–2 3.8
¶16310840

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 19 14 09.3–.10 36.54N 140.88E 22–2 3.7
¶602654779

JMA Event type fe.
JMA III 12 19 16 31.9–.20 36.76N 141.14E 20–3 3.9
¶602654777

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 19 16 57.0–.76 39.96N–.07 142.43E–.07 31 4.5b 40 1-78
IDC III 12 19 16 52.0–1.5 39.87N 142.50E 0 4.3,4.2 **¶16461415**
ISCJB III 12 19 16 54.4–.58 39.76N–.05 142.55E–.10 31 4.3b,4.2
JMA III 12 19 16 59.8–.10 39.88N 142.21E 45–2 4.0,4.2
NEIC III 12 19 17 03.1–2.2 39.88N 142.44E 89–16 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=49.3km s-min=20.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.2km az=166.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=10.7km az=81.0.
ISC III 12 19 20 04.2–2.5 35.4N–.10 141.9E–.20 22 7 1-59
IDC III 12 19 19 58.9–3.1 35.62N 142.72E 0 3.6,3.5 **¶600542278**
JMA III 12 19 20 17.0–.20 35.77N 141.46E 17–2 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=39.2km az=24.0.
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC III 12 19 27 47.6–.52 36.22N–.05 141.92E–.06 23 4.2s,4.1b 63 1-147
IDC III 12 19 27 44.1–.61 36.20N 141.92E 0 4.2,4.1s **¶602654760**
JMA III 12 19 27 45.3–.40 36.33N 142.06E 15 4.2,4.1s
NEIC III 12 19 27 45.2–.45 36.13N 141.87E 10 4.5b,4.1s
ISCJB III 12 19 27 45.3–.39 36.20N–.04 142.03E–.05 23 4.2s,4.1b
ISC Event type ke.
NEIC Event type se.
ISCJB Event type fe.
ISC III 12 19 34 18.4–.84 35.87N–.06 141.56E–.09 23 3.8b 15 3-84

IDC III 12 19 34 15.2–1.3 36.05N 141.94E 0 4.2L,4.0 ¶17194563
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=20.7km az=115.0.
ISC III 12 19 35 49.5–1.4 36.0N–.10 142.0E–.10 23 4.2b 18 1-75
ISCJB III 12 19 35 46.9–1.0 36.0N–.10 142.2E–.10 23 4.1b ¶16477142
IDC III 12 19 35 46.1–1.6 36.08N 142.02E 0 4.1,4.0
JMA III 12 19 35 47.5–.30 36.25N 142.06E 30 3.8,4.0
NEIC III 12 19 35 47.8–.98 36.04N 141.93E 10 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=10.2km az=148.2.
IDC Error ellipse: s-maj=42.6km s-min=25.6km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=16.5km az=75.0.
ISC III 12 19 38 06.7–.54 35.87N–.03 141.47E–.04 24–3 4.7b 191 1-154
NIED III 12 19 38 00 36.00N 141.50E 29 4.5W ¶16310842
NEIC III 12 19 38 05.3–2.1 35.79N 141.40E 14–13 4.8b
JMA III 12 19 38 06.2–.20 35.96N 141.53E 26–2 4.4
IDC III 12 19 38 08.5–.58 35.84N 141.43E 36–4 4.4,4.4
ISCJB III 12 19 38 08.1–.48 35.87N–.02 141.39E–.04 44–4 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ37.00000°,λ-113.00000°. NP2:ϕ_s109.00000°,δ56.00000°,λ-74.00000°. $M_0$5.37000×10^{15}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC III 12 19 52 56.3–1.5 38.9N–.20 142.3E–.20 35 3.9b 8 1-68
IDC III 12 19 52 51.0–2.6 38.90N 142.31E 0 3.9,3.9 ¶17194569
ISCJB III 12 19 52 54.0–1.2 38.9N–.20 142.4E–.20 35 3.9b,3.9
JMA III 12 19 52 58.4–.20 38.83N 142.04E 47–2 3.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=107.4km s-min=27.3km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=29.0km s-min=14.3km az=23.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 19 57 23.9–1.3 39.0N–.20 142.5E–.20 27 3.9b 6 4-59
ISCJB III 12 19 57 21.7–1.2 38.9N–.20 142.6E–.30 27 3.9b ¶17194570
IDC III 12 19 57 26.8–4.3 38.92N 142.40E 54–41 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.4km s-min=16.4km az=34.6.
IDC Error ellipse: s-maj=34.5km s-min=21.9km az=106.0.
JMA III 12 19 59 20.1–.30 35.82N 141.77E 23–3 3.6
¶602654724
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 12 20 00 57.4–1.1 38.34N 142.62E 0 4.2,3.9
¶17194575
IDC Error ellipse: s-maj=66.0km s-min=24.2km az=97.0.
JMA III 12 20 02 37.4–.10 37.41N 141.25E 24–1 3.5
¶602654723
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 20 05 29.2–.95 37.13N–.07 141.95E–.07 19 3.6b 18 1-64
IDC III 12 20 05 26.4–1.3 37.18N 142.18E 0 3.8,3.8 ¶17194580
ISCJB III 12 20 05 27.4–.74 37.12N–.05 142.09E–.07 19 3.5b,3.8
JMA III 12 20 05 31.9–.40 37.21N 141.82E 29–4 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=21.5km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.0km az=40.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 20 08 24.7–.38 35.75N–.04 141.87E–.04 23 4.8s,4.7b 227 1-147
NIED III 12 20 08 00 35.90N 141.90E 14 4.3W,4.7b ¶602654710
BJI III 12 20 08 18.2 35.88N 142.59E 25 5.1b,4.7s
IDC III 12 20 08 21.1–.50 35.72N 141.78E 0 4.4,4.3
ISCJB III 12 20 08 23.5–.23 35.79N–.03 141.83E–.03 23 4.7s,4.6b
JMA III 12 20 08 24.0–.30 35.87N 141.86E 26–3 4.4,4.6b
MOS III 12 20 08 25.7–.89 35.85N 141.76E 39 5.0b,4.6b
NEIC III 12 20 08 27.0–.69 35.75N 141.75E 36–6 5.0b,4.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ45.00000°,λ137.00000°. NP2:ϕ_s141.00000°,δ61.00000°,λ54.00000°. $M_0$3.29000×10^{15}
IDC Error ellipse: s-maj=13.1km s-min=11.2km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=144.1.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=6.2km az=116.7.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=139.0.
ISC III 12 20 17 42.4–1.0 38.1N–.20 142.4E–.20 14 3.6b 9 4-89
ISCJB III 12 20 17 40.5–.85 38.0N–.10 142.5E–.20 14 3.6b ¶17194582
IDC III 12 20 17 40.2–1.1 38.06N 142.42E 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=16.4km az=15.0.
IDC Error ellipse: s-maj=28.6km s-min=23.5km az=96.0.
JMA III 12 20 19 47.8–.20 36.57N 141.11E 27–4 3.4
¶603049651
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 20 27 32.8–.64 37.65N–.07 141.95E–.07 24 4.0b 34 1-146
IDC III 12 20 27 29.4–.72 37.69N 141.98E 0 3.9,3.9 ¶16477175
ISCJB III 12 20 27 30.6–.50 37.61N–.06 142.12E–.07 24 3.9b,3.9
NEIC III 12 20 27 32.8–4.2 37.68N 141.98E 22–30 4.5b,3.9
JMA III 12 20 27 33.5–.70 37.63N 141.95E 21 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=15.7km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.9km az=40.1.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.8km az=77.0.
JMA Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0.
ISC III 12 20 35 06.5–.48 36.44N–.04 141.93E–.06 19 4.3b 56 1-147
NIED III 12 20 35 00 36.50N 141.90E 14 4.2W ¶602655240
ISCJB III 12 20 35 05.1–.42 36.52N–.04 142.04E–.05 19 4.1b
JMA III 12 20 35 06.7–.40 36.52N 141.90E 11–4 4.4
NEIC III 12 20 35 07.5–1.2 36.26N 142.07E 37–11 4.4b
IDC III 12 20 35 09.2–2.4 36.12N 141.93E 55–21 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ21.00000°,λ8.00000°. NP2:ϕ_s77.00000°,δ87.00000°,λ111.00000°. $M_0$2.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.2km az=39.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=10.2km az=106.0.
IDC Error ellipse: s-maj=16.9km s-min=13.5km az=95.0.
ISC III 12 20 41 26.7–.81 37.13N–.04 141.38E–.05 42–7 4.8b 233 0-155
NIED III 12 20 41 00 37.20N 141.40E 47 4.7W ¶16327696
IDC III 12 20 41 26.9–1.9 37.17N 141.34E 42–17 4.5,4.3
NEIC III 12 20 41 27.5–.56 37.13N 141.29E 45–5 4.9b,4.3
JMA III 12 20 41 27.2–.10 37.17N 141.38E 41–1 4.7,4.3
ISCJB III 12 20 41 27.0–.39 37.12N–.03 141.30E–.03 55–3 4.7b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ34.00000°,λ29.00000°. NP2:ϕ_s262.00000°,δ74.00000°,λ120.00000°. $M_0$1.19000×10^{16}
NEIC Event type fe. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.
ISC III 12 20 42 22.9–.73 35.6N–.10 141.1E–.20 33 4.2b 19 9-148
IDC III 12 20 42 17.6–1.1 35.56N 141.09E 0 5.4L,4.4 ¶16477189
ISCJB III 12 20 42 21.1–.61 35.52N–.10 141.2E–.20 33 4.2b,4.4
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 20 45 21.5–.20 37.06N 141.52E 21–3 3.8
¶602655216
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 20 54 00.0–.93 36.9N–.10 141.81E–.10 10 3.9b 21 3-83
ISCJB III 12 20 53 57.8–.71 36.7N–.10 141.78E–.08 10 3.7b,3.2s ¶16461495
IDC III 12 20 53 57.9–.90 36.65N 141.76E 0 3.9,3.8b
NEIC III 12 20 53 59.6–.63 36.70N 141.86E 10 4.2b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=8.7km az=160.9.
IDC Error ellipse: s-maj=27.9km s-min=21.4km az=91.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.5km az=147.0.
ISC III 12 20 56 15.8–.67 38.32N–.08 142.09E–.09 41 4.1b 62 1-89
ISCJB III 12 20 56 13.9–.50 38.33N–.06 142.10E–.08 41 4.1b ¶602655209
JMA III 12 20 56 16.2–.20 38.27N 141.84E 20 4.4
IDC III 12 20 56 17.8–2.5 38.32N 141.93E 56–21 4.0,3.9
NEIC III 12 20 56 18.8–.73 38.30N 141.88E 67–6 4.3b,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.5km az=41.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.0km s-min=13.4km az=107.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=124.0.
ISC III 12 21 01 11.4–.46 37.25N–.06 141.85E–.05 24 4.5b,3.6s 91 1-146
NIED III 12 21 01 00 37.30N 141.80E 8 4.3W,3.6s ¶16445743
IDC III 12 21 01 07.9–.51 37.28N 141.87E 0 4.4,4.3L
ISCJB III 12 21 01 09.8–.30 37.23N–.04 141.91E–.04 24 4.3b,3.9s
NEIC III 12 21 01 11.2–2.4 37.24N 141.92E 23–17 4.5b,3.9s
JMA III 12 21 01 11.4–.20 37.30N 141.80E 23–2 4.4,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ23.00000°,λ-129.00000°. NP2:ϕ_s63.00000°,δ73.00000°,λ-75.00000°. $M_0$3.35000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=11.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=165.5.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 12 21 02 34.2–2.1 37.23N–.08 141.56E–.06 12–12 4.2b 40 1-146
NIED III 12 21 02 00 37.30N 141.40E 44 4.3W ¶16445747
IDC III 12 21 02 32.6–.70 37.28N 141.48E 0 4.3,4.1
NEIC III 12 21 02 33.5–3.7 37.24N 141.48E 8–22 4.4b,4.1
JMA III 12 21 02 39.5–.10 37.28N 141.41E 40–1 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ38.00000°,λ149.00000°. NP2:ϕ_s1.00000°,δ71.00000°,λ56.00000°. $M_0$2.73000×10^{15}
IDC Error ellipse: s-maj=19.2km s-min=17.1km az=152.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 21 03 16.0–.76 38.8N–.10 142.9E–.10 16 4.3b 38 3-145
IDC III 12 21 03 13.7–.75 38.79N 142.85E 0 4.4,4.3 ¶602655197
ISCJB III 12 21 03 14.6–.58 38.74N–.09 142.9E–.10 16 4.2b,4.3
NEIC III 12 21 03 18.1–4.0 38.80N 142.87E 29–26 4.3b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=17.7km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=12.4km az=149.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=11.2km az=152.0.
ISC III 12 21 12 25.1–2.2 37.21N–.09 141.46E–.08 13–12 15 0-57
IDC III 12 21 12 23.7–1.5 37.03N 141.94E 0 3.8,3.7 ¶17194609
ISCJB III 12 21 12 26.8–1.4 37.17N–.09 141.56E–.08 33–7 3.7b,3.7
JMA III 12 21 12 28.8–.10 37.21N 141.42E 40–1 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=37.9km s-min=26.5km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=10.6km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 21 16 46.4–.30 35.24N 141.39E 24–4 3.1
¶603049653
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 12 21 24 32.0–.60 35.18N–.05 141.40E–.07 21–5 4.3b 81 1-148
NIED III 12 21 24 00 35.20N 141.40E 20 4.4W ¶600542454
IDC III 12 21 24 28.9–.55 35.18N 141.30E 0 4.5L,4.4
ISCJB III 12 21 24 32.3–.68 35.15N–.03 141.43E–.06 39–5 4.4b,4.4
JMA III 12 21 24 33.2–.30 35.23N 141.35E 27 4.0,4.4
NEIC III 12 21 24 34.6–.66 35.14N 141.36E 41–6 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ33.00000°,λ122.00000°. NP2:ϕ_s357.00000°,δ63.00000°,λ71.00000°. $M_0$3.81000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=13.0km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.3km az=2.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=93.0.
JMA III 12 21 45 34.1–.10 36.39N 141.11E 40–3 3.5
¶602654659
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 21 48 08.1–.45 39.56N–.03 142.73E–.03 22–3 5.4b,5.3s 1036 1-162
NIED III 12 21 48 00 39.60N 142.90E 8 5.5W,5.3s ¶16310854
JMA III 12 21 48 03.8–.10 39.58N 142.93E 0 5.6,5.3s
IDC III 12 21 48 04.7–.40 39.47N 142.68E 0 5.1,5.1s
BJI III 12 21 48 05.8 39.51N 142.77E 28 5.6s,5.4
ISCJB III 12 21 48 07.5–.10 39.61N–.02 142.66E–.02 25 5.3s,5.3b
MOS III 12 21 48 07.9–1.1 39.69N 142.70E 31 5.7b,5.3s
NEIC III 12 21 48 09.6–1.3 39.61N 142.57E 26–9 5.5b,5.3s
GCMT III 12 21 48 09.6–.20 39.54N 142.84E 13–0 5.4W,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ28.00000°,λ-167.00000°. NP2:ϕ_s67.00000°,δ84.00000°,λ-62.00000°. $M_0$1.97000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=1.9km az=157.4.
MOS Error ellipse: s-maj=7.9km s-min=5.1km az=90.6.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c119; s110,c212; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56±.03 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$0.61±.02; $M_{r\theta}$-1.25±.10; $M_{\theta\phi}$0.80±.02; $M_{\phi r}$-0.55±.06; Best double couple: NP1:ϕ_s64.00000°,δ78.00000°,λ-63.00000°. NP2:ϕ_s177.00000°,δ29.00000°,λ-155.00000°. Principal axes:
T 1.7700,Plg28.0000°,Azm133.0000°; N -0.1850,Plg26.0000°,Azm239.0000°
; P -1.5850,Plg50.0000°,Azm4.0000° $M_0$1.67800×10^{17}
ISC III 12 21 58 16.5–.39 39.04N–.03 142.45E–.03 28–2 5.3s,5.2b 1094 1-162
NIED III 12 21 58 00 39.00N 142.50E 32 5.3W,5.2b ¶16310855
IDC III 12 21 58 12.4–.35 39.05N 142.38E 0 5.4L,5.0
JMA III 12 21 58 13.7–.30 39.03N 142.53E 14–2 5.4,5.0
BJI III 12 21 58 13.0 38.97N 142.61E 28 5.5b,5.5s
MOS III 12 21 58 14.9–1.1 39.06N 142.52E 31 5.4b,5.0s
ISCJB III 12 21 58 16.8–.36 39.03N–.02 142.43E–.02 41–3 5.3s,5.1b
GCMT III 12 21 58 18.9–.20 39.13N 142.27E 32–0 5.4W,5.1b
NEIC III 12 21 58 18.9–.42 39.03N 142.31E 45–3 5.3s,5.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ24.00000°,λ-96.00000°. NP2:ϕ_s175.00000°,δ67.00000°,λ-87.00000°. $M_0$9.94000×10^{16}
IDC Error ellipse: s-maj=9.8km s-min=9.7km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.1km az=90.9.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=148.8.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c107; s91,c141; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.05 $M_{\theta\theta}$0.33±.03; $M_{\phi\phi}$0.93±.03; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$-0.13±.02; $M_{\phi r}$1.13±.04; Best double couple: NP1:ϕ_s173.00000°,δ68.00000°,λ-88.00000°. NP2:ϕ_s347.00000°,δ22.00000°,λ-96.00000°. Principal axes:
T 1.4330,Plg23.0000°,Azm261.0000°; N 0.3080,Plg2.0000°,Azm352.0000°
; P -1.7390,Plg67.0000°,Azm87.0000° $M_0$1.58600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=146.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC III 12 22 10 17.1–1.5 39.02N–.06 142.51E–.08 47–12 4.3b 83 2-145
NIED III 12 22 10 00 39.10N 142.50E 32 4.6W ¶17194615
ISCJB III 12 22 10 15.0–.83 39.00N–.04 142.54E–.07 43–6 4.2b
JMA III 12 22 10 14.0–.30 39.06N 142.45E 20–3 4.7
IDC III 12 22 10 18.1–2.2 38.99N 142.50E 55–20 4.2,4.2L
NEIC III 12 22 10 18.0–.78 39.00N 142.53E 56–6 4.5b,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ32.00000°,λ-76.00000°. NP2:ϕ_s165.00000°,δ59.00000°,λ-98.00000°. $M_0$8.99000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=12.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=14.6km s-min=12.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.7km az=132.0.
JMA III 12 22 12 00.1–.10 36.51N 140.96E 43–4 3.7
¶603049656
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 22 12 46.8–.33 37.70N–.03 141.98E–.03 20–1 5.9b,5.5s 1916 1-164
NIED III 12 22 12 00 37.60N 142.10E 8 5.8W,5.5s **¶16310858**
BJI III 12 22 12 42.6 37.62N 141.99E 12 6.1s,6.0
IDC III 12 22 12 43.5–.27 37.62N 142.01E 0 5.8,5.7
ISCJB III 12 22 12 43.7–.75 37.70N–.02 142.00E–.01 9–4 5.8b,5.6s
JMA III 12 22 12 44.0–.20 37.61N 142.05E 9–3 6.1,5.6s
MOS III 12 22 12 46.3–1.2 37.70N 142.09E 35 6.1b,5.5s
NEIC III 12 22 12 46.0–.00 37.46N 142.16E 15 6.1b,5.5s
NEIC III 12 22 12 46.3–.08 37.68N 141.89E 16 5.9b,5.8
GCMT III 12 22 12 46.3–.10 37.56N 141.99E 15–0 5.9W,5.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ44.00000°,λ-95.00000°. NP2:ϕ_s342.00000°,δ46.00000°,λ-85.00000°. M_o5.81000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=7.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=97.8.
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.39 $M_{\theta\theta}$3.31 $M_{\phi\phi}$2.08 $M_{r\theta}$-1.09 $M_{\theta\phi}$-4.26 $M_{\phi r}$-2.72 Best double couple: NP1:ϕ_s336.00000° ,δ55.00000°,λ-56.00000°. NP2:ϕ_s106.00000°,δ47.00000°,λ-129.00000°. Principal axes: T 7.0800,Plg4.0000°,Azm42.0000°; N -0.1700,Plg27.0000°,Azm134.0000° ; P -6.9000,Plg62.0000°,Azm303.0000° M_o7.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=145.0. Recorded [3 JMA] in Fukushima, Ibaraki, Iwate, Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s132,c279; s141,c315;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.86±.01 $M_{\theta\theta}$0.20±.01; $M_{\phi\phi}$0.66±.01; $M_{r\theta}$-0.03±.02; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.20±.02; Best double couple: NP1: ϕ_s159.00000°,δ52.00000°,λ-86.00000°. NP2:ϕ_s333.00000°,δ38.00000°,λ-95.00000°. Principal axes: T 0.8060,Plg7.0000°,Azm246.0000°; N 0.0830,Plg3.0000°,Azm337.0000° ; P -0.8890,Plg83.0000°,Azm90.0000° M_o0.84700×10^{18}
JMA III 12 22 18 43.0 35.83N 140.85E 12–1 2.9
¶603049657
JMA Event type fe.
ISC III 12 22 18 53.7–.71 37.6N–.10 141.8E–.10 24 4.2b 18 3-146
ISCJB III 12 22 18 51.6–.62 37.7N–.10 141.9E–.10 24 4.2b **¶16449505**
IDC III 12 22 18 56.9–5.3 37.67N 141.95E 54–47 4.1,4.1
NEIC III 12 22 18 58.8–1.9 37.61N 141.75E 69–17 4.2b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=14.3km az=164.6.
IDC Error ellipse: s-maj=34.8km s-min=20.3km az=73.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=14.5km az=52.0.
JMA III 12 22 26 31.4–.10 36.50N 140.82E 50–2 3.8
¶603049659
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 22 27 07.7–3.2 39.24N–.04 142.52E–.05 17–19 4.5b 110 1-145
JMA III 12 22 27 07.9–.20 39.22N 142.49E 27 4.8 **¶16449509**
IDC III 12 22 27 11.8–2.1 39.25N 142.34E 47–19 4.3,4.2
NEIC III 12 22 27 12.1–.57 39.27N 142.34E 49–5 4.6b,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=12.0km az=146.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.1km az=136.0.
ISC III 12 22 31 26.7–.34 39.20N–.03 142.38E–.03 28–2 5.5b,5.3s 1400 1-162
NIED III 12 22 31 00 39.20N 142.50E 29 5.2W,5.3s **¶602654615**
JMA III 12 22 31 24.8–.20 39.20N 142.47E 24–2 5.4,5.3s
BJI III 12 22 31 24.0 39.09N 142.28E 27 5.9b,5.5s
ISCJB III 12 22 31 25.5–.67 39.14N–.02 142.38E–.02 31–4 5.4b,5.3s
MOS III 12 22 31 25.9–.86 39.23N 142.34E 35 5.8b,5.1s
NEIC III 12 22 31 27.3–.49 39.18N 142.27E 31–3 5.5b,5.3s
GCMT III 12 22 31 27.3–.20 39.27N 142.34E 21–2 5.3W,5.3s
IDC III 12 22 31 29.1–1.9 39.16N 142.35E 49–17 5.1,5.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ28.00000°,λ177.00000°. NP2:ϕ_s13.00000°,δ89.00000°,λ62.00000°. M_o7.30000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=153.8.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=94.6.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=145.0. Recorded [3 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c34; s99,c176; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.03 $M_{\theta\theta}$-0.24±.02; $M_{\phi\phi}$0.16±.02; $M_{r\theta}$0.28±.05; $M_{\theta\phi}$-0.34±.01; $M_{\phi r}$1.05±.13; Best double couple: NP1:ϕ_s16.00000°,δ88.00000° ,λ70.00000°. NP2:ϕ_s282.00000°,δ20.00000°,λ175.00000°. Principal axes: T 1.1710,Plg43.0000°,Azm267.0000°; N -0.0300,Plg20.0000°,Azm17.0000° ; P -1.1420,Plg40.0000°,Azm124.0000° M_o1.15700×10^{17}
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=104.0.
ISC III 12 22 34 06.5–1.0 39.19N–.06 142.6E–.10 27 4.4b 29 1-80
IDC III 12 22 34 01.4–1.6 39.20N 142.91E 0 4.5,4.4 **¶16449511**
ISCJB III 12 22 34 04.7–.72 39.17N–.05 142.62E–.07 27 4.3b,4.4
JMA III 12 22 34 06.7–.30 39.22N 142.39E 20–3 4.7,4.4
NEIC III 12 22 34 07.0–.87 39.17N 142.79E 35 4.1b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=40.9km s-min=19.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.0km az=28.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=10.0km az=103.0.
ISC III 12 22 36 40.9–.99 39.77N–.04 142.46E–.05 45–8 4.7b 127 1-145
ISCJB III 12 22 36 39.7–.53 39.76N–.03 142.46E–.05 48–3 4.5b **¶16449513**
JMA III 12 22 36 40.8–.20 39.79N 142.34E 44–2 4.6
IDC III 12 22 36 43.0–2.1 39.75N 142.35E 64–19 4.6,4.3
NEIC III 12 22 36 44.3–.84 39.69N 142.35E 78–7 4.6b,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.7km az=29.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=12.6km az=105.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.6km az=128.0.
JMA III 12 22 40 37.5–.20 39.20N 142.41E 15–2 3.9
¶602654609
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 22 42 18.1–2.5 37.07N–.09 141.3E–.20 43–11 19 0-46
IDC III 12 22 42 00.6–7.5 36.50N 142.83E 0 3.8,3.8 **¶603049660**
JMA III 12 22 42 18.8–.10 37.09N 141.18E 46–1 3.8,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=114.3km s-min=72.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 22 44 28.1–1.5 36.16N–.05 141.13E–.07 14–9 4.3b 66 1-147
JMA III 12 22 44 27.8–.10 36.12N 141.20E 26–2 4.7 **¶16477216**
ISCJB III 12 22 44 28.1–1.0 36.12N–.04 141.18E–.06 26–7 4.2b
NEIC III 12 22 44 32.4–1.3 36.08N 141.06E 49–11 4.1b
IDC III 12 22 44 32.4–2.0 36.10N 141.02E 47–18 4.3,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.8km az=161.9.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.7km az=130.0.
IDC Error ellipse: s-maj=15.5km s-min=13.7km az=115.0.
ISC III 12 22 44 55.0–.54 35.93N–.10 141.95E–.09 23 4.5b 57 11-151
ISCJB III 12 22 44 53.4–.38 35.90N–.07 141.84E–.07 23 4.4b **¶17194621**
IDC III 12 22 44 56.9–5.2 35.94N 141.86E 37–42 4.4,4.3
NEIC III 12 22 44 57.9–1.7 35.96N 141.84E 45–15 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=8.5km az=164.2.
IDC Error ellipse: s-maj=15.7km s-min=13.4km az=112.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.3km az=125.0.

JMA III 12 22 45 34.1–.20 39.14N 142.34E 13–2 4.2
¶603233777
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 12 22 45 48.5–.10 35.74N 140.85E 31–1 2.8
¶603049663
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 22 47 00.8–.30 36.39N 141.56E 0 3.8
¶602654603
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 22 50 00.9–.53 35.95N–.05 141.09E–.07 31 4.2b 44 0-147
NIED III 12 22 49 00 36.00N 141.10E 20 4.3W **¶602654599**
IDC III 12 22 49 56.6–.62 36.01N 141.25E 0 4.2,4.1
ISCJB III 12 22 49 59.4–.40 35.96N–.04 141.17E–.06 31 4.1b,4.1
JMA III 12 22 49 59.9–.10 35.97N 141.08E 23–1 4.4,4.1
NEIC III 12 22 50 01.5–.60 36.01N 141.25E 35 4.1b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ67.00000°,λ18.00000°. NP2:ϕ_s154.00000°,δ74.00000°,λ156.00000°. M_o2.91000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=15.5km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.8km az=4.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=9.7km az=165.0.
JMA III 12 22 50 10.3–.30 39.08N 142.40E 15–2 3.9
¶602654596
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 12 22 50 41.2–.93 36.2N–.10 141.9E–.10 23 4.2b 10 3-79
IDC III 12 22 50 37.7–1.4 36.13N 141.87E 0 4.5,4.5b **¶16449522**
ISCJB III 12 22 50 38.9–.79 36.2N–.10 141.9E–.10 23 4.3b,4.5b
NEIC III 12 22 50 42.7–.68 36.25N 141.87E 35 4.0b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=47.2km s-min=29.5km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=13.4km az=178.2.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=13.4km az=155.0.
ISC III 12 22 50 55.8–.49 36.15N–.07 141.78E–.06 23 4.5b 54 1-151
ISCJB III 12 22 50 53.9–.38 36.10N–.05 141.84E–.05 23 4.4b **¶16449525**
IDC III 12 22 50 57.6–5.3 36.22N 141.82E 33–40 4.3,4.3
NEIC III 12 22 50 58.2–1.1 36.16N 141.81E 41–10 4.6b,4.3
JMA III 12 22 51 02.7–.20 36.09N 141.19E 31–3 3.9,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.7km az=171.4.
IDC Error ellipse: s-maj=15.3km s-min=13.1km az=106.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.8km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 22 54 15.8–.10 37.34N 141.45E 33–1 3.7
¶602654592
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 22 59 24.7–.85 37.22N–.05 141.47E–.07 46–7 4.1b 67 0-147
NIED III 12 22 59 00 37.30N 141.40E 41 4.4W **¶17194623**
ISCJB III 12 22 59 23.5–.64 37.19N–.04 141.49E–.06 51–5 4.2b
NEIC III 12 22 59 25.7–.58 37.18N 141.45E 57–5 4.2b
JMA III 12 22 59 25.4–.10 37.31N 141.42E 40–1 4.3
IDC III 12 22 59 26.9–2.0 37.22N 141.36E 66–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ10.00000°,λ-27.00000°. NP2:ϕ_s209.00000°,δ86.00000°,λ-99.00000°. M_o3.81000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.1km az=177.7.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=5.1km az=98.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=11.5km az=86.0.
JMA III 12 23 03 22.7–.20 36.79N 141.15E 38–2 3.5
¶602654584
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 23 10 22.4–.57 36.19N–.06 141.96E–.06 23 3.9b 47 1-147
IDC III 12 23 10 18.8–.61 36.20N 142.01E 0 4.3L,4.1 **¶602654567**
ISCJB III 12 23 10 20.5–.42 36.20N–.04 142.00E–.04 23 3.9b,4.1
JMA III 12 23 10 21.7–.30 36.34N 141.97E 51 4.0,4.1
NEIC III 12 23 10 22.7–2.8 36.14N 142.02E 27–20 4.2b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=14.8km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.0km az=175.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.4km az=58.0.
ISC III 12 23 12 09.8–.89 39.00N–.04 142.51E–.06 32–6 4.3b 57 2-88
NIED III 12 23 12 00 39.10N 142.40E 23 4.2W **¶16449529**
JMA III 12 23 12 08.3–.30 39.07N 142.45E 18–3 4.3
ISCJB III 12 23 12 09.9–.85 39.02N–.04 142.45E–.07 49–7 4.1b
IDC III 12 23 12 09.7–.70 39.00N 142.45E 31–5 4.1,4.1
NEIC III 12 23 12 12.6–.76 39.03N 142.42E 55–6 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ8.00000°,λ27.00000°. NP2:ϕ_s353.00000°,δ86.00000°,λ98.00000°. M_o1.94000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=16.2.
IDC Error ellipse: s-maj=15.8km s-min=12.4km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.6km az=125.0.
JMA III 12 23 16 25.0–.10 39.09N 142.38E 15–2 4.1
¶603049664
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 23 20 40.8–.29 38.03N–.03 142.38E–.03 26–1 5.5s,5.3b 1156 1-163
NIED III 12 23 20 00 38.00N 142.30E 20 5.1W,5.3b **¶16461431**
IDC III 12 23 20 36.7–.40 37.97N 142.36E 0 5.1,5.0
BJI III 12 23 20 36.5 37.95N 142.63E 24 5.7s,5.5b
JMA III 12 23 20 38.0–.30 37.96N 142.32E 3–4 5.3,5.5b
ISCJB III 12 23 20 39.6–.75 37.98N–.02 142.34E–.02 26–5 5.6s,5.2b
MOS III 12 23 20 40.7–.89 38.06N 142.28E 35 5.6b,5.4s
NEIC III 12 23 20 41.0–.23 38.00N 142.28E 24–1 5.6s,5.3b
GCMT III 12 23 20 41.0–.40 38.15N 142.42E 32–0 5.5W,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ34.00000°,λ-74.00000°. NP2:ϕ_s2.00000°,δ57.00000°,λ-101.00000°. M_o4.71000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=151.3.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=102.1.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=143.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c54; s65,c87; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.84±.10 $M_{\theta\theta}$0.34±.06; $M_{\phi\phi}$1.50±.06; $M_{r\theta}$0.50±.11; $M_{\theta\phi}$0.10±.04; $M_{\phi r}$-0.61±.07; Best double couple: NP1:ϕ_s350.00000°,δ56.00000° ,λ-104.00000°. NP2:ϕ_s195.00000°,δ36.00000°,λ-70.00000°. Principal axes: T 1.6090,Plg10.0000°,Azm90.0000°; N 0.4520,Plg12.0000°,Azm358.0000° ; P -2.0580,Plg74.0000°,Azm220.0000° M_o1.83400×10^{17}
ISC III 12 23 24 08.2–.68 35.47N–.05 141.05E–.08 33 4.1b 31 0-79
ISCJB III 12 23 24 06.5–.47 35.48N–.04 141.16E–.06 33 4.1b **¶16477224**
JMA III 12 23 24 08.3–.30 35.56N 141.01E 36–2 3.5
NEIC III 12 23 24 10.0–.67 35.41N 140.95E 52–6 4.2b
IDC III 12 23 24 10.3–2.2 35.44N 140.91E 54–22 4.1,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.5km az=178.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.5km az=87.0.
IDC Error ellipse: s-maj=24.5km s-min=13.0km az=88.0.
ISC III 12 23 24 48.7–.32 38.02N–.02 141.91E–.03 20–1 6.0b,5.6s 2111 1-161
NIED III 12 23 24 00 38.00N 141.90E 17 5.8W,5.6s **¶17194629**
IDC III 12 23 24 46.3–.36 38.11N 141.81E 0 5.5,5.5
JMA III 12 23 24 46.9–.30 38.01N 141.95E 15–4 6.2,5.5
BJI III 12 23 24 46.9 37.91N 141.67E 21 6.3,6.3s
MOS III 12 23 24 47.4–1.3 38.09N 142.08E 33 6.0b,5.6s
ISCJB III 12 23 24 48.4–.47 38.04N–.01 141.79E–.01 23–3 5.8b,5.7s
NEIC III 12 23 24 48.8–.08 38.05N 141.72E 15 6.1W,6.0b

GCMT III 12 23 24 48.8–.10 38.07N 141.94E 23–0 5.8W,6.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ20.00000°,λ119.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ80.00000°. $M_0$5.06000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=9.5km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=91.4.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=144.1.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=142.0. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}1.02 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-0.88 $M_{r\theta}$0.45 $M_{\theta\phi}$-0.22 $M_{\phi r}$1.54 Best double couple: NP1:ϕ_s194.00000°,δ16.00000°,λ88.00000°. NP2:ϕ_s16.00000°,δ74.00000°,λ90.00000°. Principal axes: T 1.9200,Plg61.0000°,Azm287.0000°; N -0.0800,Plg0.0000°,Azm196.0000°; P -1.8400,Plg29.0000°,Azm106.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s195.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s15.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm285.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm105.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s106,c199; s118,c249; Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}3.05±.07 $M_{\theta\theta}$-0.71±.04; $M_{\phi\phi}$-2.34±.05; $M_{r\theta}$0.69±.07; $M_{\theta\phi}$-1.27±.03; $M_{\phi r}$4.59±.13; Best double couple: NP1:ϕ_s12.00000°,δ74.00000°,λ81.00000°. NP2:ϕ_s222.00000°,δ18.00000°,λ118.00000°. Principal axes: T 5.6780,Plg60.0000°,Azm269.0000°; N -0.2690,Plg9.0000°,Azm15.0000°; P -5.4110,Plg28.0000°,Azm109.0000° $M_0$5.54500×10^{17}

ISC III 12 23 33 40.9–.90 37.5N–.10 141.76E–.08 24 3.9b 18 1-146
IDC III 12 23 33 37.6–1.2 37.55N 141.84E 0 4.0b,3.9 **¶16476702**
ISCJB III 12 23 33 39.1–.80 37.5N–.10 141.86E–.08 24 3.9b,3.9
JMA III 12 23 33 39.6–.60 37.38N 141.78E 13–5 4.0,3.9
NEIC III 12 23 33 42.7–.59 37.52N 141.85E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=34.5km s-min=24.2km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=8.1km az=160.6.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=9.6km az=150.0.

ISC III 12 23 35 43.3–.71 36.26N–.09 141.96E–.09 19 3.8b 24 3-147
IDC III 12 23 35 40.3–.68 36.26N 142.02E 0 4.0,3.9 **¶16449535**
ISCJB III 12 23 35 41.5–.57 36.24N–.06 141.94E–.07 19 3.8b,3.9
NEIC III 12 23 35 45.5–.44 36.26N 141.94E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=17.4km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=7.7km az=147.2.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.5km az=174.0.

JMA III 12 23 38 44.9–.20 35.89N 140.94E 14–2 3.6
¶602654546

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 12 23 40 48.4–.49 36.63N–.04 141.80E–.04 30–3 5.5s,5.1b 835 1-154
NIED III 12 23 40 00 36.90N 141.80E 29 4.8W,5.1b **¶17194633**
BJI III 12 23 40 44.4 36.44N 141.95E 28 5.6b,5.5s
JMA III 12 23 40 47.2–.30 36.86N 141.84E 4–3 5.0,5.5s
MOS III 12 23 40 47.0–1.1 36.68N 141.82E 35 5.2b,5.5s
ISCJB III 12 23 40 48.7–.55 36.64N–.03 141.70E–.02 42–4 5.5s,5.0b
NEIC III 12 23 40 48.8–1.2 36.62N 141.66E 30–8 5.2b,5.0b
IDC III 12 23 40 48.5–.64 36.63N 141.74E 31–4 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s226.00000°,δ51.00000°,λ-98.00000°. $M_0$2.04000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.2km az=101.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=162.5.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=137.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.5km s-min=8.5km az=94.0.

ISC III 12 23 43 22.1–1.9 38.9N–.20 142.9E–.20 16 4.2b 14 4-74
IDC III 12 23 43 13.0–5.7 37.74N 143.11E 0 4.2,4.1 **¶16476703**
NEIC III 12 23 43 29.1–.88 39.65N 142.79E 35 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=144.9km s-min=26.6km az=176.0.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=10.2km az=136.0.

ISC III 12 23 43 58.6–1.7 36.80N–.05 141.16E–.07 26–11 4.1b 30 0-147
IDC III 12 23 43 52.1–.81 36.25N 141.32E 0 4.1,3.9 **¶16477232**
NEIC III 12 23 43 58.0–2.3 36.26N 141.22E 40–20 4.2b,3.9
JMA III 12 23 43 59.7–.10 36.82N 141.14E 45–2 4.1,3.9
ISCJB III 12 23 43 59.4–.86 36.81N–.05 141.16E–.07 46–6 4.0b,3.9
ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.

ISC III 12 23 44 07.2–.69 35.8N–.10 141.7E–.10 25 4.1b 18 3-147
IDC III 12 23 44 03.3–.72 35.74N 141.71E 0 4.4,4.2 **¶17194635**
ISCJB III 12 23 44 05.2–.57 35.73N–.09 141.7E–.10 25 4.1b,4.2
NEIC III 12 23 44 08.4–.37 35.72N 141.65E 35 4.1b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=30.9km s-min=17.4km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=11.1km az=140.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.8km az=164.0.

JMA III 12 23 47 00.6–.40 35.50N 140.97E 21 2.2
¶600542615

JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.

ISC III 12 23 50 12.8–.42 35.92N–.05 141.48E–.06 26 4.5b 79 1-147
ISCJB III 12 23 50 11.7–.31 36.00N–.04 141.51E–.05 26 4.5b,4.2s **¶602654525**
JMA III 12 23 50 13.7–.20 36.04N 141.45E 37–3 4.6,4.2s
IDC III 12 23 50 14.6–.70 35.97N 141.36E 36–4 4.4,4.3
NEIC III 12 23 50 14.5–.84 35.88N 141.44E 39–8 4.5b,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=136.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=11.4km az=152.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=7.3km az=223.0.

JMA III 12 23 59 05.8–.10 35.76N 141.05E 30–1 2.2
¶603049667

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 13 00 04 51.6–.10 37.25N 141.44E 32–2 4.0
¶603049669

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 13 00 15 48.1–.56 36.55N–.05 141.84E–.06 30–3 4.7b 224 1-147
IDC III 13 00 15 42.8–.51 36.41N 141.96E 0 4.5,4.3 **¶17194641**
MOS III 13 00 15 45.5–.87 36.51N 141.84E 25 4.9b,4.3
JMA III 13 00 15 46.0–.50 36.51N 141.71E 0 4.5,4.3
ISCJB III 13 00 15 47.8–.73 36.54N–.04 141.75E–.05 38–7 4.6b,4.3
NEIC III 13 00 15 47.5–.36 36.57N 141.80E 23–2 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=11.9km az=134.0.
MOS Error ellipse: s-maj=9.3km s-min=6.9km az=102.7.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.9km az=39.4.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.3km az=152.0.

JMA III 13 00 16 30.6–.10 35.70N 140.90E 9–1 2.2
¶603049671

ISC III 13 00 23 22.3–1.7 35.24N–.09 141.3E–.20 35 3.8b 9 1-59
IDC III 13 00 23 17.0–3.4 35.25N 141.50E 0 3.9,3.8b **¶17194643**
JMA III 13 00 23 19.8–.60 35.23N 141.32E 26–4 3.2,3.8b
ISCJB III 13 00 23 20.3–1.4 35.2N–.10 141.3E–.20 35 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.

JMA III 13 00 25 30.0–.10 38.33N 141.62E 44–4 3.7
¶602658447

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 13 00 25 37.7–.40 36.07N 141.22E 20–4
¶603049672

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC III 13 00 26 04.2–.80 35.18N–.07 141.3E–.10 27 3.9b 28 2-84
IDC III 13 00 26 00.0–.90 35.20N 141.40E 0 4.3,4.2s **¶602658445**
ISCJB III 13 00 26 02.1–.59 35.19N–.05 141.39E–.10 27 4.2s,3.9b
NEIC III 13 00 26 05.8–1.4 35.15N 141.27E 40–12 4.2b,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=15.3km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.8km az=174.1.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=8.0km az=62.0.

ISC III 13 00 29 32.4–2.7 36.25N–.06 141.91E–.09 22–20 3.8b 29 1-84
IDC III 13 00 29 28.4–1.0 36.11N 141.92E 0 3.9,3.8 **¶600542727**
JMA III 13 00 29 31.5–.30 36.38N 141.88E 12–5 3.8,3.8
NEIC III 13 00 29 33.5–.70 36.04N 141.85E 35 4.2b,3.8
ISCJB III 13 00 29 33.4–1.4 36.30N–.05 141.88E–.10 40–12 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

JMA III 13 00 31 48.6–.10 36.11N 141.07E 36–2 2.9
¶602658435

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 13 00 32 56.3–.73 35.99N–.04 140.91E–.05 19–3 4.9b 326 0-159
NIED III 13 00 32 00 35.90N 141.00E 8 4.8W **¶16310872**
ISCJB III 13 00 32 52.7–.00 36.03N–.03 140.90E–.03 4–6 6.0s,4.8b
IDC III 13 00 32 52.5–.45 35.90N 140.95E 0 4.6,4.6b
JMA III 13 00 32 53.6–.20 35.89N 141.02E 12–2 4.7,4.6b
MOS III 13 00 32 54.1–.81 36.01N 140.90E 15 5.0b,4.6b
NEIC III 13 00 32 57.2–1.1 36.01N 140.87E 24–7 4.9b,4.6b
GCMT III 13 00 32 57.2–.60 35.87N 140.98E 23–1 5.0W,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ51.00000°,λ-147.00000°. NP2:ϕ_s56.00000°,δ65.00000°,λ-44.00000°. $M_0$1.70000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=163.7.
IDC Error ellipse: s-maj=12.3km s-min=11.6km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.7km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=136.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c18; s54,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.79±.40 $M_{\theta\theta}$0.98±.22; $M_{\phi\phi}$2.81±.22; $M_{r\theta}$-0.49±.36; $M_{\theta\phi}$1.03±.10; $M_{\phi r}$-0.14±.24; Best double couple: NP1:ϕ_s29.00000°,δ48.00000°,λ-83.00000°. NP2:ϕ_s199.00000°,δ43.00000°,λ-98.00000°. Principal axes: T 3.2880,Plg3.0000°,Azm115.0000°; N 0.5530,Plg5.0000°,Azm205.0000°; P -3.8400,Plg84.0000°,Azm357.0000° $M_0$3.56400×10^{16}

JMA III 13 00 35 42.6–.20 37.01N 141.39E 30–2 4.2
¶602658862

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC III 13 00 40 37.6–18 38.15N 142.08E 0 3.8,3.7
¶16477271

IDC Error ellipse: s-maj=468.2km s-min=33.0km az=174.0.

ISC III 13 00 41 11.7–.89 36.58N–.04 141.22E–.06 41–8 4.2b 98 1-147
NIED III 13 00 41 00 36.60N 141.10E 41 4.6W **¶17194644**
JMA III 13 00 41 10.9–.10 36.60N 141.12E 35–2 4.6
ISCJB III 13 00 41 10.7–.52 36.59N–.03 141.20E–.05 49–4 4.2b
NEIC III 13 00 41 12.1–.54 36.53N 141.24E 48–5 4.4b
IDC III 13 00 41 13.3–1.7 36.56N 141.21E 57–16 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ38.00000°,λ178.00000°. NP2:ϕ_s309.00000°,δ89.00000°,λ52.00000°. $M_0$7.99000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=1.7.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.6km az=112.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=12.2km s-min=9.4km az=77.0.

ISC III 13 00 43 17.0–.43 38.04N–.05 142.81E–.04 29–2 5.0b,4.9s 718 2-159
NIED III 13 00 43 00 38.00N 142.80E 44 5.3W,4.9s **¶16449594**
BJI III 13 00 43 13.5 38.25N 143.01E 25 5.3b,4.9b
JMA III 13 00 43 14.2–.30 37.98N 142.76E 12 5.1,4.9b
ISCJB III 13 00 43 14.9–1.0 38.02N–.03 142.81E–.02 23–7 4.9b,4.8s
MOS III 13 00 43 17.6–1.1 38.12N 142.72E 41 5.2b,4.8s
NEIC III 13 00 43 18.0–.42 38.04N 142.71E 32–3 5.0b,4.8s
IDC III 13 00 43 20.4–2.1 38.04N 142.74E 58–18 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ6.00000°,λ-18.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ-95.00000°. $M_0$9.08000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=2.8km az=171.8.
MOS Error ellipse: s-maj=7.2km s-min=4.9km az=108.8.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=153.0.
IDC Error ellipse: s-maj=12.7km s-min=8.8km az=110.0.

JMA III 13 00 47 14.7–.30 37.26N 141.61E 40–4 4.2
¶16310874

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

JMA III 13 00 56 28.5–.20 35.98N 141.71E 20–4 3.7
¶602658838

JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.

JMA III 13 00 56 53.2–.20 36.00N 141.70E 14 3.9
¶602658834

JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.

JMA III 13 00 59 08.2–.30 36.29N 141.84E 19 3.7
¶603049673

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC III 13 01 01 43.0–1.2 36.0N–.20 142.0E–.10 23 3.6b 8 1-75
IDC III 13 01 01 39.0–1.3 36.09N 142.11E 0 3.8,3.6b **¶16477274**
ISCJB III 13 01 01 40.8–1.0 36.0N–.10 142.10E–.10 23 3.7b,3.6b
JMA III 13 01 01 41.8–.20 36.07N 142.03E 42 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=41.9km s-min=29.6km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=10.5km az=167.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

JMA III 13 01 02 37.5–.30 38.38N 142.02E 9 3.8
¶603145349

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA III 13 01 03 31.0–.10 37.23N 141.13E 34–1 3.5
¶602658822

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 13 01 11 34.0–1.0 36.49N–.05 141.81E–.08 19 3.8b 22 1-60
IDC III 13 01 11 31.1–1.1 36.49N 141.76E 0 3.9,3.8 **¶17194654**
ISCJB III 13 01 11 32.1–.83 36.51N–.05 141.97E–.08 19 3.8b,3.8
JMA III 13 01 11 35.4–.30 36.57N 141.77E 25–5 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=19.3km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.6km az=154.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

JMA III 13 01 16 18.0–.10 37.21N 141.38E 39–1 3.9
¶16477282

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 13 01 21 51.4–.54 36.64N–.06 141.91E–.06 19 4.0b 46 1-147
IDC III 13 01 21 48.8–.63 36.64N 141.84E 0 4.1,3.9 **¶602658799**
ISCJB III 13 01 21 49.4–.38 36.58N–.04 141.96E–.05 19 3.9b,3.9
NEIC III 13 01 21 50.3–2.5 36.62N 141.86E 11–15 4.1b,3.9
JMA III 13 01 21 51.7–.30 36.72N 141.86E 10–3 4.4,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=16.7km s-min=13.7km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.5km az=32.3.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.9km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 13 01 25 52.8–.30 39.65N 142.75E 22 4.2
¶16336069

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC III 13 01 26 06.7–.38 35.73N–.02 141.74E–.03 24–2 6.2s,5.9b 2070 1-161
NIED III 13 01 26 00 35.80N 142.00E 8 6.2W,5.9b **¶602442301**

BJI III 13 01 26 02.2 35.60N 141.80E 23 6.7s,6.5
IDC III 13 01 26 02.6–.32 35.76N 141.77E 0 6.2,6.2s
JMA III 13 01 26 02.0–.20 35.83N 141.97E 11–2 6.6,6.2s
ISCJB III 13 01 26 03.1–.61 35.70N–.02 141.70E–.01 10–3 6.2s,5.9b
NEIC III 13 01 26 04.2–.09 35.72N 141.64E 8 6.4,6.2s
GCMT III 13 01 26 04.2–.10 35.74N 141.81E 12 6.2W,6.2s
NEIC III 13 01 26 07.0–.00 35.74N 142.13E 12 6.2W,6.2s
MOS III 13 01 26 07.5–1.1 35.90N 141.70E 34 6.3s,6.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ43.00000°,λ-36.00000°. NP2:ϕ_s123.00000°,δ66.00000°,λ-127.00000°. $M_0$2.02000×10^{18}
IDC Error ellipse: s-maj=10.6km s-min=8.1km az=95.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=156.3.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=143.0. Felt [III] at Tokyo. Also felt at Hamura, Narita, Warabi and Zama. Recorded [3 JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.37 $M_{\theta\theta}$0.72 $M_{\phi\phi}$0.65 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.68 $M_{\phi r}$-1.24 Best double couple: NP1:ϕ_s333.00000°,δ67.00000°,λ-75.00000°. NP2:ϕ_s118.00000°,δ27.00000°,λ-122.00000°. Principal axes: T 1.7900,Plg21.0000° ,Azm51.0000°; N 0.1700,Plg14.0000°,Azm147.0000°; P -1.9600,Plg65.0000°,Azm268.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s175.00000°,δ7.00000°,λ-90.00000°. NP2:ϕ_s355.00000°,δ83.00000°,λ-90.00000°. Principal axes: T Plg38.0000°,Azm85.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000° ,Azm265.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c296; s136,c367;Duration: 3s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.59±.01 $M_{\theta\theta}$0.29±.01; $M_{\phi\phi}$1.30±.01; $M_{r\theta}$0.89±.03; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$-1.37±.03; Best double couple: NP1:ϕ_s330.00000°,δ68.00000°,λ-95.00000°. NP2:ϕ_s163.00000° ,δ22.00000°,λ-78.00000°. Principal axes: T 2.2090,Plg23.0000°,Azm64.0000° ; N 0.0880,Plg5.0000°,Azm332.0000°; P -2.3010,Plg66.0000°,Azm231.0000° $M_0$2.25500×10^{18}
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.23 $M_{\theta\theta}$0.31 $M_{\phi\phi}$0.92 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.47 $M_{\phi r}$-1.06 Best double couple: NP1:ϕ_s348.00000° ,δ66.00000°,λ-77.00000°. NP2:ϕ_s139.00000°,δ27.00000°,λ-116.00000°. Principal axes: T 1.5100,Plg19.0000°,Azm68.0000°; N 0.1600,Plg11.0000°,Azm162.0000° ; P -1.6700,Plg66.0000°,Azm280.0000° $M_0$1.60000×10^{18}
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=114.3.
IDC III 13 01 35 20.6–8.0 38.79N 142.32E 0 5.3,5.3s
¶17194658
IDC Error ellipse: s-maj=132.8km s-min=48.7km az=104.0.
JMA III 13 01 45 59.0–.10 39.93N 142.24E 15–1 4.2
¶602658790
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 01 50 33.8–.20 36.73N 140.66E 6 2.5
¶603145351
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 01 50 41.5–1.1 35.98N–.08 141.1E–.10 31 3.8b 10 0-65
ISCJB III 13 01 50 40.4–.98 36.12N–.07 141.1E–.10 31 3.8b **¶17194663**
JMA III 13 01 50 43.6–.20 35.88N 141.00E 10–2 3.4
IDC III 13 01 50 44.6–1.1 36.90N 141.75E 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=7.6km az=23.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=34.5km s-min=22.9km az=112.0.
ISC III 13 01 52 36.3–.52 37.63N–.07 141.97E–.06 24 4.4b 96 1-146
ISCJB III 13 01 52 34.6–.33 37.62N–.05 142.03E–.05 24 4.3b **¶16453116**
MOS III 13 01 52 34.1–.83 37.68N 142.07E 22 4.7b
JMA III 13 01 52 35.1–.30 37.59N 141.98E 12–4 4.7
NEIC III 13 01 52 37.5–1.5 37.64N 141.96E 31–10 4.5b
IDC III 13 01 52 38.6–2.8 37.65N 141.89E 38–23 4.2,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.4km az=144.7.
MOS Error ellipse: s-maj=10.4km s-min=7.4km az=98.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.6km az=139.0.
IDC Error ellipse: s-maj=15.1km s-min=13.6km az=104.0.
ISC III 13 02 02 55.7–2.0 35.73N–.05 141.71E–.09 31–13 3.8b 25 1-72
JMA III 13 02 02 53.9–.30 35.80N 141.83E 26–3 3.6 **¶602658753**
ISCJB III 13 02 02 55.5–1.4 35.68N–.05 141.7E–.10 49–11 3.8b
IDC III 13 02 02 57.7–3.6 35.68N 141.64E 49–31 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=8.0km az=163.4.
IDC Error ellipse: s-maj=41.2km s-min=17.8km az=73.0.
JMA III 13 02 04 26.7–.10 38.04N 141.58E 56–4 4.1
¶603049678
JMA Event type fe.
ISC III 13 02 05 06.0–.98 37.68N–.09 141.99E–.08 24 4.0b 13 1-146
IDC III 13 02 05 02.8–1.1 37.48N 142.27E 0 4.2,3.9b **¶602658750**
ISCJB III 13 02 05 04.6–.89 37.65N–.07 142.06E–.07 24 4.0b,3.9b
JMA III 13 02 05 06.3–.30 37.60N 141.88E 22–4 4.3,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=24.6km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=8.3km az=4.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 02 05 25.6–.10 36.97N 141.21E 43–1 4.0
¶600542845
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 02 15 19.9–.20 36.78N 141.14E 39–2 3.8
¶602658739
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 02 18 46.4–.30 35.73N 140.90E 7–1 2.5
¶603049680
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 02 21 54.2–.46 35.62N–.05 141.79E–.06 22 4.5b 73 1-147
ISCJB III 13 02 21 52.2–.31 35.57N–.03 141.87E–.05 22 4.4b **¶602658734**
JMA III 13 02 21 53.0–.20 35.71N 141.85E 23–2 4.5
NEIC III 13 02 21 55.3–1.9 35.59N 141.83E 30–13 4.5b
IDC III 13 02 21 56.9–2.6 35.63N 141.76E 39–23 4.3,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.5km az=34.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.2km az=74.0.
IDC Error ellipse: s-maj=15.5km s-min=12.6km az=87.0.
ISC III 13 02 23 30.4–.46 36.47N–.03 141.97E–.05 19 4.7b 124 1-90
ISCJB III 13 02 23 29.0–.31 36.48N–.02 141.99E–.03 19 5.5s,4.6b **¶16310881**
JMA III 13 02 23 30.5–.30 36.49N 141.91E 23 6.2,4.6b
IDC III 13 02 23 32.4–3.8 36.44N 141.90E 33–29 5.0,5.0s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=137.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=11.9km az=87.0.
ISC III 13 02 25 27.4–.57 36.31N–.05 141.67E–.07 26 5.5s,4.6b 34 1-147
IDC III 13 02 25 23.1–.59 36.27N 141.88E 0 5.4,5.4s **¶16453130**
ISCJB III 13 02 25 25.4–.47 36.25N–.05 141.92E–.06 26 5.4s,4.5b
JMA III 13 02 25 26.2–.30 36.34N 141.84E 24 4.6,4.5b
NEIC III 13 02 25 27.9–3.7 36.23N 141.85E 32–25 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=15.9km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.6km az=41.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=9.9km az=126.0.
ISC III 13 02 32 36.6–.30 36.79N–.04 141.64E–.04 33 4.9b 720 1-155
NEIC III 13 02 32 34.7–1.7 36.72N 141.57E 18–10 4.9b **¶602658731**
MOS III 13 02 32 34.0–1.0 36.80N 141.60E 24 5.1b
JMA III 13 02 32 35.0–.20 36.76N 141.60E 25–2 5.4
ISCJB III 13 02 32 35.6–.11 36.74N–.03 141.58E–.02 33 4.8b
IDC III 13 02 32 38.2–1.7 36.76N 141.60E 46–16 4.6,4.6L
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=135.0.
MOS Error ellipse: s-maj=7.2km s-min=5.5km az=91.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=160.9.
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=138.0.
JMA III 13 02 51 28.2–.20 36.66N 141.08E 38–3 3.6
¶603049682
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 02 55 59.0–.20 36.02N 141.29E 29–3 3.7
¶602658708
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 13 02 56 34.6–.10 38.57N 141.76E 46–3 3.8
¶602658706
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 03 01 26.9–1.1 36.90N–.05 140.47E–.05 35–3 4.6b 153 0-153
JMA III 13 03 01 22.9 36.75N 140.59E 13–2 4.6 **¶17194678**
IDC III 13 03 01 24.1–.89 37.46N 140.21E 0 4.4,4.3
ISCJB III 13 03 01 28.8–.49 36.93N–.04 140.21E–.06 56–4 4.5b,4.3
MOS III 13 03 01 29.4–1.1 37.08N 140.13E 60 4.8b,4.3
NEIC III 13 03 01 30.0–.99 37.19N 140.14E 48–10 4.6b,4.3
ISC Event type fe.
JMA Event type fe.
IDC Error ellipse: s-maj=27.5km s-min=13.1km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=41.2.
MOS Error ellipse: s-maj=10.8km s-min=8.2km az=68.8.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=6.3km az=176.0. Felt at Nakanojo.
ISC III 13 03 03 51.6–2.2 36.42N–.07 141.82E–.10 15–13 3.6b 21 1-147
IDC III 13 03 03 49.0–1.4 36.38N 141.96E 0 3.7,3.7 **¶17194680**
ISCJB III 13 03 03 50.8–1.8 36.43N–.07 141.88E–.09 23–13 3.6b,3.7
JMA III 13 03 03 53.8–.20 36.51N 141.71E 36 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=38.1km s-min=23.1km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=9.4km az=136.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 13 03 05 18.8–.30 35.91N 141.73E 14 3.6
¶603049686
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISC III 13 03 05 46.2–.65 36.36N–.06 141.65E–.07 26 3.9b 34 1-147
IDC III 13 03 05 42.3–1.2 36.38N 141.72E 0 4.1,4.0 **¶602658696**
ISCJB III 13 03 05 43.9–.52 36.28N–.05 141.83E–.06 26 3.9b,4.0
NEIC III 13 03 05 46.5–.84 36.15N 141.64E 35 4.0b,4.0
JMA III 13 03 05 46.5–.30 36.41N 141.68E 15 3.9,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=33.0km s-min=17.1km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.7km az=158.1.
NEIC Event type se. Error ellipse: s-maj=23.9km s-min=7.9km az=168.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 13 03 05 52.6–.30 36.74N 140.69E 6 3.3
¶602658694
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 03 07 06.3–1.6 39.38N–.07 142.99E–.07 46–13 4.3b 79 2-144
NIED III 13 03 07 00 37.00N 142.50E 20 5.1W **¶16461571**
JMA III 13 03 07 00.8–.20 39.49N 142.97E 0 4.6
ISCJB III 13 03 07 02.9–.86 39.33N–.04 143.09E–.05 35–6 4.4s,4.3b
NEIC III 13 03 07 03.4–2.1 39.21N 143.01E 28–14 4.5b,4.3b
IDC III 13 03 07 08.1–2.6 39.30N 142.94E 64–22 4.5s,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ38.00000°,λ-54.00000°. NP2:ϕ_s176.00000°,δ60.00000°,λ-114.00000°. $M_0$4.66000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.3km az=40.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.0km az=118.0.
IDC Error ellipse: s-maj=17.5km s-min=14.1km az=141.0.
JMA III 13 03 09 44.8–.10 35.35N 140.34E 25–2 3.6
¶602658693
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 03 11 01.7–.10 37.52N 141.08E 18–1 3.5
¶602658692
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 03 13 40.8–1.3 36.8N–.10 141.37E–.09 33 3.6b 6 1-75
IDC III 13 03 13 38.4–1.2 37.03N 141.75E 0 4.0,3.7L **¶600542913**
ISCJB III 13 03 13 40.8–.82 36.9N–.10 141.5E–.10 33 3.6b,3.7L
JMA III 13 03 13 57.3–.10 35.85N 140.92E 31–1 3.4,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=43.6km s-min=26.6km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=10.7km az=153.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 03 13 53.6–1.3 36.8N–.10 140.81E–.09 35 3.6b 12 0-78
ISCJB III 13 03 13 52.3–.96 36.79N–.08 140.9E–.10 35 3.7b **¶602658680**
IDC III 13 03 13 53.6–.89 37.89N 141.21E 0 4.0,3.7
JMA III 13 03 13 54.2–.10 36.78N 140.64E 4 3.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=11.3km az=146.2.
IDC Error ellipse: s-maj=32.6km s-min=22.5km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 03 22 20.5–1.1 36.54N–.08 141.14E–.10 32 3.8b 16 1-75
IDC III 13 03 22 15.2–1.4 36.49N 141.30E 0 3.9,3.8 **¶16477318**
ISCJB III 13 03 22 18.7–.91 36.49N–.07 141.22E–.08 32 3.8b,3.8
JMA III 13 03 22 21.8–.10 36.56N 141.01E 41–3 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=30.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.8km az=135.0.
JMA Event type fe.
ISC III 13 03 22 37.5–.47 35.57N–.06 141.80E–.08 25 4.1b 54 3-147
IDC III 13 03 22 34.2–.53 35.65N 141.74E 0 4.1,4.1 **¶17194691**
ISCJB III 13 03 22 35.9–.37 35.62N–.04 141.70E–.07 25 4.1b,4.1
NEIC III 13 03 22 37.1–2.2 35.62N 141.73E 20–13 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=11.8km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.9km az=13.2.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.9km az=93.0.
ISC III 13 03 25 36.4–.53 36.06N–.07 141.91E–.08 23 4.0b 44 1-147
IDC III 13 03 25 33.0–.64 36.11N 141.84E 0 4.3L,4.2 **¶16461574**
JMA III 13 03 25 34.9–.30 36.30N 141.88E 13 4.2,4.2
ISCJB III 13 03 25 34.3–.43 36.05N–.05 141.94E–.08 23 4.0b,4.2
NEIC III 13 03 25 36.5–2.8 36.02N 141.73E 23–20 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=15.5km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=18.8.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.1km az=61.0.
IDC III 13 03 31 31.9–.98 38.67N 142.05E 0 4.8L,4.2
¶17194695
IDC Error ellipse: s-maj=37.7km s-min=16.6km az=93.0.
ISC III 13 03 45 42.3–.48 38.02N–.04 142.70E–.04 26–3 4.8b 415 2-154
IDC III 13 03 45 38.3–.39 38.02N 142.60E 0 4.6,4.6 **¶16357281**
JMA III 13 03 45 40.9–.40 38.20N 142.67E 14 4.8,4.6
ISCJB III 13 03 45 42.0–1.1 38.01N–.03 142.56E–.03 32–8 4.8b,4.6s
NEIC III 13 03 45 42.3–.30 38.05N 142.54E 22–2 4.9b,4.6s
MOS III 13 03 45 42.1–1.0 38.05N 142.52E 33 5.1b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=9.7km az=97.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=137.4.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.2km az=146.0.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=97.3.
ISC III 13 03 46 51.6–.66 36.56N–.09 141.6E–.10 26 4.4b 29 3-118
IDC III 13 03 46 47.3–1.1 36.62N 141.75E 0 4.4,4.3 **¶16461578**
ISCJB III 13 03 46 49.5–.49 36.53N–.06 141.60E–.10 26 4.3b,4.3
NEIC III 13 03 46 53.3–1.3 36.49N 141.46E 41–12 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=39.4km s-min=18.2km az=78.0.

ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=9.2km az=176.2.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.3km az=55.0.
ISC III 13 03 50 47.4–.53 36.00N–.05 142.00E–.07 23 4.4b 51 1-147
NIED III 13 03 50 00 36.20N 142.00E 23 4.4W **¶16477239**
IDC III 13 03 50 44.5–.89 36.09N 142.06E 0 4.5L,4.3
NEIC III 13 03 50 45.2–3.5 36.03N 142.04E 8–22 4.6b,4.3
JMA III 13 03 50 46.1–.30 36.22N 142.03E 39 4.4,4.3
ISCJB III 13 03 50 46.2–.39 36.11N–.05 142.02E–.05 23 4.3b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ38.00000°,λ-161.00000°. NP2:ϕ_s167.00000°,δ78.00000°,λ-53.00000°. $M_0$3.88000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 13 03 52 43.3–.66 38.88N–.06 141.97E–.08 51 3.9b 27 1-145
ISCJB III 13 03 52 41.5–.54 38.83N–.05 142.11E–.06 51 3.9b **¶17194707**
JMA III 13 03 52 44.3–.10 38.88N 141.88E 59–2 4.0
IDC III 13 03 52 48.7–2.7 38.82N 141.79E 105–24 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.0km az=144.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=15.6km az=84.0.
JMA III 13 03 55 51.6–.20 35.84N 141.76E 11–3 4.0
¶602658871
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
JMA III 13 04 01 16.7–.10 39.13N 142.39E 13–1 3.8
¶602658655
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 04 02 11.7–.34 38.02N–.04 142.72E–.04 23–2 4.9b 777 2-156
NIED III 13 04 02 00 38.00N 142.70E 17 4.8W **¶16357283**
MOS III 13 04 02 10.7–.98 38.05N 142.56E 24 5.2b
JMA III 13 04 02 10.9–.20 38.02N 142.70E 28 5.0
ISCJB III 13 04 02 10.3–.93 38.03N–.02 142.63E–.02 19–6 4.9b,4.4s
NEIC III 13 04 02 13.0–1.0 38.03N 142.56E 26–7 4.9b,4.4s
IDC III 13 04 02 13.2–.47 38.02N 142.62E 28–3 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ16.00000°,λ-171.00000°. NP2:ϕ_s170.00000°,δ88.00000°,λ-74.00000°. $M_0$1.62000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=150.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=137.0.
IDC Error ellipse: s-maj=11.0km s-min=9.3km az=120.0.
ISC III 13 04 06 18.4–.56 36.77N–.08 141.78E–.06 19 4.5b 47 1-147
NIED III 13 04 06 00 36.70N 141.90E 29 4.4W **¶16477242**
IDC III 13 04 06 15.7–1.6 36.84N 141.68E 0 4.3,4.1
ISCJB III 13 04 06 16.4–.40 36.70N–.06 141.86E–.04 19 4.3b,4.1
JMA III 13 04 06 16.7–.40 36.72N 141.85E 19 4.3,4.1
NEIC III 13 04 06 19.1–2.8 36.80N 141.69E 23–20 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ27.00000°,λ23.00000°. NP2:ϕ_s64.00000°,δ80.00000°,λ115.00000°. $M_0$4.42000×10^{15}
IDC Error ellipse: s-maj=48.0km s-min=18.9km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.9km az=6.2.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.1km az=203.0.
JMA III 13 04 11 39.8–.10 36.02N 141.05E 11–3 3.6
¶602658641
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 04 12 54.6–.28 35.68N–.04 141.76E–.04 22 5.0b,4.8s 768 1-154
NIED III 13 04 12 00 35.80N 142.00E 26 5.0W,4.8s **¶16424473**
IDC III 13 04 12 50.9–.40 35.66N 141.92E 0 4.7,4.6
JMA III 13 04 12 52.5–.20 35.81N 141.98E 42–4 5.1,4.6
ISCJB III 13 04 12 53.1–.11 35.66N–.02 141.77E–.02 22 4.9b,4.8s
MOS III 13 04 12 54.0–.90 35.68N 141.81E 28 5.2b,4.8s
BJI III 13 04 12 54.0 35.65N 141.60E 27 5.3b,5.0s
NEIC III 13 04 12 56.7–.62 35.67N 141.72E 36–5 5.0b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ44.00000°,λ101.00000°. NP2:ϕ_s172.00000°,δ47.00000°,λ80.00000°. $M_0$3.77000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=9.5km az=93.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=161.2.
MOS Error ellipse: s-maj=6.9km s-min=5.1km az=107.3.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=134.0.
ISC III 13 04 22 24.1–.66 37.5N–.10 141.99E–.08 24 4.0b 39 1-146
IDC III 13 04 22 20.8–.74 37.57N 142.01E 0 4.1,3.9 **¶16477339**
JMA III 13 04 22 22.2–.40 37.56N 142.00E 7–4 4.4,3.9
ISCJB III 13 04 22 22.0–.55 37.46N–.09 142.03E–.07 24 4.0b,3.9
NEIC III 13 04 22 24.4–3.5 37.52N 141.97E 26–24 4.3b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=19.1km az=121.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=7.8km az=163.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.8km az=83.0.
JMA III 13 04 23 21.0–.10 36.59N 141.08E 34–4 3.8
¶17194711
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 04 29 41.7–.84 37.1N–.20 141.7E–.10 35 3.9b 13 1-90
ISCJB III 13 04 29 40.1–.70 37.1N–.10 141.77E–.09 35 3.9b **¶602658619**
IDC III 13 04 29 41.9–.96 36.99N 142.16E 30–5 4.0,3.8
JMA III 13 04 29 43.3–.10 36.51N 140.45E 26–2 3.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=20.0km s-min=9.6km az=172.8.
IDC Error ellipse: s-maj=41.6km s-min=18.8km az=119.0.
JMA Event type fe.
JMA III 13 04 33 41.3–.20 36.10N 141.68E 30 2.7
¶603049693
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 13 04 34 29.8–1.2 36.28N 141.75E 0 3.8,3.5
¶17194716
IDC Error ellipse: s-maj=46.8km s-min=25.9km az=94.0.
ISC III 13 04 34 48.9–.73 36.12N–.06 141.88E–.08 23 3.7b 29 1-147
ISCJB III 13 04 34 47.3–.66 36.10N–.06 141.88E–.07 23 3.6b **¶17194719**
JMA III 13 04 34 48.7–.40 36.21N 141.84E 40 3.6
IDC III 13 04 34 50.1–.76 36.02N 141.85E 30–4 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.7km az=41.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=19.6km s-min=18.9km az=36.0.
ISC III 13 04 36 14.7–.30 35.30N–.03 141.06E–.04 33 4.9b,4.8s 719 0-152
NIED III 13 04 36 00 35.20N 141.40E 20 5.0W,4.8s **¶16357285**
BJI III 13 04 36 06.8 35.20N 141.61E 24 5.2b,5.1s
JMA III 13 04 36 11.4–.40 35.23N 141.44E 27 4.9,5.1s
GCMT III 13 04 36 13.4–.50 35.28N 141.39E 32–1 5.1W,5.1s
ISCJB III 13 04 36 13.4–.12 35.21N–.03 141.02E–.02 33 5.0s,4.9b
NEIC III 13 04 36 13.3–1.6 35.21N 140.97E 22–11 5.0b,4.9b
MOS III 13 04 36 13.2–.95 35.21N 140.98E 33 5.1b,4.9b
IDC III 13 04 36 16.5–1.4 35.24N 141.14E 48–14 4.7,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s359.00000°,δ73.00000°,λ93.00000°. $M_0$3.08000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s62,c79; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.51±.43 $M_{\theta\theta}$-0.94±.25; $M_{\phi\phi}$-4.56±.25; $M_{r\theta}$-0.72±.35; $M_{\theta\phi}$1.10±.15; $M_{\phi r}$2.74±.26; Best double couple: NP1:ϕ_s345.00000°,δ59.00000°,λ90.00000°. NP2:ϕ_s164.00000°,δ31.00000°,λ89.00000°. Principal axes: T 6.2330,Plg76.0000°,Azm256.0000°; N -0.6370,Plg0.0000°,Azm165.0000°; P -5.5920,Plg14.0000°,Azm74.0000° $M_0$5.91300×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=162.1.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.5km az=125.0.
MOS Error ellipse: s-maj=9.4km s-min=5.9km az=87.2.
IDC Error ellipse: s-maj=14.9km s-min=9.4km az=98.0.
ISC III 13 04 45 52.2–.47 35.92N–.05 141.64E–.06 26 4.3b 61 1-152
IDC III 13 04 45 48.5–.54 35.92N 141.52E 0 4.3,4.2b **¶16461586**
NEIC III 13 04 45 50.6–2.7 35.93N 141.58E 14–16 4.5b,4.2b
ISCJB III 13 04 45 50.3–.32 35.89N–.04 141.67E–.05 26 4.3b,4.2s
JMA III 13 04 45 52.9–.30 36.05N 141.54E 33–4 3.8,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=14.0km az=91.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=6.2km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.1km az=34.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 13 04 48 39.5 35.77N 140.79E 15 1.6
¶602658587
ISC III 13 04 53 29.5–1.3 36.81N–.07 141.2E–.10 35 3.8b 13 0-61
JMA III 13 04 53 23.0–.30 36.69N 141.44E 28–4 3.6 **¶16477355**
ISCJB III 13 04 53 28.2–1.1 36.72N–.06 141.1E–.10 35 3.7b
IDC III 13 04 53 28.8–1.2 36.50N 140.53E 0 4.1L,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.8km az=163.7.
IDC Error ellipse: s-maj=31.0km s-min=22.6km az=90.0.
ISC III 13 05 00 24.4–.42 36.18N–.04 141.84E–.06 20–3 4.7b 148 1-152
NIED III 13 05 00 00 36.20N 141.80E 14 4.3W **¶16442348**
MOS III 13 05 00 22.6–.89 36.21N 141.82E 22 4.9b
ISCJB III 13 05 00 22.0–1.2 36.18N–.03 141.91E–.06 18–8 4.6b
JMA III 13 05 00 23.7–.20 36.25N 141.81E 19–4 4.5
IDC III 13 05 00 25.9–.56 36.19N 141.75E 29–3 4.3,4.3
NEIC III 13 05 00 26.6–.26 36.16N 141.76E 35 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ36.00000°,λ75.00000°. NP2:ϕ_s357.00000°,δ56.00000°,λ101.00000°. $M_0$3.37000×10^{15}
MOS Error ellipse: s-maj=11.4km s-min=6.6km az=125.2.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=5.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=12.3km az=107.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.4km az=117.0.
ISC III 13 05 09 55.2–.71 36.45N–.05 141.23E–.07 43–7 4.0b 41 1-147
NIED III 13 05 09 00 36.50N 141.10E 44 4.4W **¶16442349**
ISCJB III 13 05 09 53.2–.74 36.43N–.03 141.26E–.06 44–7 3.9b
NEIC III 13 05 09 54.2–.47 36.36N 141.31E 35 4.0b
JMA III 13 05 09 54.5–.10 36.46N 141.08E 39–3 4.1
IDC III 13 05 09 55.5–.73 36.38N 141.22E 47–7 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ31.00000°,λ-23.00000°. NP2:ϕ_s210.00000°,δ79.00000°,λ-119.00000°. $M_0$4.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.4km az=169.8.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=8.8km az=50.0.
JMA Event type fe.
IDC Error ellipse: s-maj=16.6km s-min=9.8km az=105.0.
IDC III 13 05 15 43.0–9.7 36.41N 141.96E 0 3.8,3.7
¶17194741
IDC Error ellipse: s-maj=249.3km s-min=33.0km az=174.0.
ISC III 13 05 17 34.0–2.8 37.2N–.10 141.2E–.10 10 3.9b 7 0-61
JMA III 13 05 17 30.5–.10 37.07N 141.37E 28–2 2.9 **¶17194744**
IDC III 13 05 17 33.9–1.2 38.14N 142.13E 0 4.3s,4.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=46.1km s-min=26.3km az=93.0.
JMA III 13 05 21 34.6–.20 39.49N 142.55E 17–3 4.0
¶602658550
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 05 22 07.2–1.2 36.45N–.09 141.7E–.10 26 3.7b 8 1-75
IDC III 13 05 22 01.9–.93 36.23N 141.69E 0 4.0,3.7 **¶17194747**
ISCJB III 13 05 22 04.2–.80 36.30N–.05 141.78E–.10 26 3.6b,3.7
JMA III 13 05 22 08.2–.20 36.39N 141.63E 53 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=27.9km s-min=19.5km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.7km az=166.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 05 22 50.8–.20 35.32N 140.37E 27–2 3.3
¶603049696
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 05 26 42.1–.98 36.15N–.06 141.48E–.09 26 3.8b 16 1-75
IDC III 13 05 26 38.0–1.3 36.13N 141.93E 0 3.9,3.8b **¶17194749**
ISCJB III 13 05 26 40.3–.86 36.09N–.06 141.68E–.09 26 3.8s,3.7b
JMA III 13 05 26 45.2–.20 36.13N 141.23E 38–3 3.1,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=27.4km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.8km az=26.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 05 26 59.1–.20 39.33N 142.61E 16–3 4.0
¶602658546
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 05 30 10.0–.73 38.39N–.07 142.39E–.10 24 3.6b 19 2-89
ISCJB III 13 05 30 07.9–.67 38.33N–.06 142.4E–.10 24 3.6b **¶17194751**
IDC III 13 05 30 11.3–.78 38.38N 142.29E 36–6 3.7,3.7
JMA III 13 05 30 12.3–.60 38.46N 142.06E 23 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=8.1km az=160.7.
IDC Error ellipse: s-maj=19.2km s-min=16.6km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=6.1km az=-1.0.
JMA III 13 05 33 32.3–.20 36.68N 140.99E 42–3 3.2
¶603049698
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 05 36 48.1–1.1 38.99N–.08 141.94E–.09 67–7 4.2b 44 1-89
NIED III 13 05 36 00 39.00N 142.00E 41 4.2W **¶600543100**
JMA III 13 05 36 46.5–.20 38.98N 141.97E 51–2 4.2
ISCJB III 13 05 36 46.1–1.0 38.99N–.06 142.0E–.10 65–6 4.1b
NEIC III 13 05 36 47.3–.80 38.91N 142.10E 67–6 4.6b
IDC III 13 05 36 47.9–1.2 38.94N 142.01E 70–6 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ8.00000°,λ171.00000°. NP2:ϕ_s341.00000°,δ89.00000°,λ82.00000°. $M_0$2.03000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=9.1km az=25.1.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.7km az=121.0.
IDC Error ellipse: s-maj=21.0km s-min=19.1km az=117.0.
ISC III 13 05 37 58.3–.56 36.39N–.05 141.21E–.07 32 4.2b 47 1-147
NIED III 13 05 37 00 36.40N 141.10E 29 4.1W **¶16445762**
ISCJB III 13 05 37 56.5–.41 36.40N–.04 141.27E–.05 32 4.1b
JMA III 13 05 37 58.4–.10 36.43N 141.12E 36–4 4.1
IDC III 13 05 37 58.3–.83 36.37N 141.26E 33–5 4.1,4.0
NEIC III 13 05 37 59.9–.83 36.36N 141.22E 46–7 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ9.00000°,λ-49.00000°. NP2:ϕ_s228.00000°,δ84.00000°,λ-96.00000°. $M_0$1.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=166.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.0km s-min=14.4km az=88.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.1km az=115.0.
JMA III 13 05 41 51.2–.20 36.03N 141.02E 6–4 3.6
¶602658535
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 05 42 48.7–.48 37.27N–.05 141.97E–.06 24 4.3b 60 1-90
NIED III 13 05 42 00 37.30N 141.80E 38 4.4W **¶600543102**
ISCJB III 13 05 42 46.5–.33 37.25N–.03 142.07E–.05 24 4.2b,3.7s
NEIC III 13 05 42 49.6–1.4 37.29N 142.02E 30–10 4.6b,3.7s
IDC III 13 05 42 50.2–.64 37.30N 141.99E 33–4 4.2,4.1
JMA III 13 05 42 51.0–.20 37.32N 141.78E 14–3 4.3,4.1
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ23.00000°,λ169.00000°. NP2:ϕ_s271.00000°,δ86.00000°,λ67.00000°. M$_0$4.85000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=33.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=114.0.
IDC Error ellipse: s-maj=13.8km s-min=10.6km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 05 46 55.1–.20 36.76N 141.16E 38–2 3.5 ¶602658532
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 05 47 39.4–.52 39.54N–.04 142.78E–.04 19–1 4.8b 275 1-149
NIED III 13 05 47 00 39.50N 142.80E 8 4.6W **¶602658528**
JMA III 13 05 47 38.0–.20 39.55N 142.75E 8–2 4.7
IDC III 13 05 47 39.9–.71 39.45N 142.75E 21–3 4.6,4.6
ISCJB III 13 05 47 39.3–.96 39.57N–.03 142.74E–.03 22–6 4.7b,4.2s
MOS III 13 05 47 40.0–.87 39.71N 142.64E 24 5.1b,4.2s
NEIC III 13 05 47 43.2–.22 39.66N 142.59E 35 4.9b,4.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ-179.00000°. NP2:ϕ_s57.00000°,δ90.00000°,λ-66.00000°. M$_0$8.09000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=10.9km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=142.0.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=96.8.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.1km az=153.0.
ISC III 13 05 55 05.8–.38 38.33N–.04 142.31E–.04 27–2 4.9b,4.2s 796 2-148
NIED III 13 05 55 00 38.30N 142.20E 26 4.5W,4.2s **¶16310904**
ISCJB III 13 05 55 04.1–1.2 38.35N–.03 142.17E–.03 20–8 4.8b,4.5s
JMA III 13 05 55 05.1–.20 38.29N 142.25E 38 4.9,4.5s
MOS III 13 05 55 06.3–.76 38.56N 142.10E 30 5.0b,4.5s
NEIC III 13 05 55 08.8–.41 38.34N 142.09E 45–3 4.9b,4.5s
IDC III 13 05 55 09.1–1.9 38.34N 142.15E 51–17 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ44.00000°,λ-63.00000°. NP2:ϕ_s14.00000°,δ52.00000°,λ-114.00000°. M$_0$7.46000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=153.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=93.5.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=142.0.
IDC Error ellipse: s-maj=11.8km s-min=10.3km az=128.0.
ISC III 13 05 57 48.9–.86 39.67N–.06 142.93E–.08 34–2 4.4b,3.8s 50 2-82
NEIC III 13 05 57 45.9–3.3 39.69N 143.07E 18–20 4.5b,3.8s **¶16445764**
JMA III 13 05 57 47.7–.50 39.66N 142.73E 12–5 4.4,3.8s
ISCJB III 13 05 57 47.8–1.1 39.67N–.04 142.93E–.07 42–8 4.2b,3.8s
IDC III 13 05 57 48.8–1.1 39.65N 142.97E 35–5 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=7.4km az=112.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.1km az=26.1.
IDC Error ellipse: s-maj=33.9km s-min=18.1km az=75.0.
ISC III 13 05 59 54.6–.44 37.04N–.03 141.38E–.04 43–3 4.8b 776 0-152
NIED III 13 05 59 00 37.00N 141.40E 53 4.6W **¶16310905**
IDC III 13 05 59 54.7–.50 37.05N 141.35E 44–4 4.7,4.6
MOS III 13 05 59 54.9–.83 37.36N 141.23E 43 5.1b,4.6
ISCJB III 13 05 59 54.8–.35 37.06N–.02 141.29E–.03 53–3 4.8b,3.7s
JMA III 13 05 59 54.2–.20 37.04N 141.38E 43–2 4.7,3.7s
NEIC III 13 05 59 55.9–.43 37.07N 141.26E 50–3 4.9b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ44.00000°,λ-103.00000°. NP2:ϕ_s198.00000°,δ48.00000°,λ-78.00000°. M$_0$9.92000×10^{15}
IDC Error ellipse: s-maj=11.1km s-min=9.5km az=117.0.
MOS Error ellipse: s-maj=6.7km s-min=4.8km az=90.9.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=44.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=149.0. Recorded [3 JMA] in Fukushima.
ISC III 13 06 02 55.6–.63 36.21N–.07 141.73E–.09 26 4.0b 31 1-147
IDC III 13 06 02 51.2–.76 36.12N 141.79E 0 4.2,4.0 **¶602443440**
ISCJB III 13 06 02 53.6–.50 36.20N–.06 141.87E–.06 26 4.0b,3.3s
JMA III 13 06 02 54.6–.40 36.21N 141.86E 46 4.0,3.3s
NEIC III 13 06 02 56.5–.43 36.15N 141.81E 35 4.4b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=19.4km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.9km az=144.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.8km az=175.0.
JMA III 13 06 13 48.3–.10 36.46N 140.95E 36–5 3.7 ¶602658397
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 06 17 39.4–1.3 38.7N–.20 142.3E–.20 24 3.7b 9 4-89
IDC III 13 06 17 33.6–1.0 38.32N 142.29E 0 4.7s,4.7 **¶17194759**
ISCJB III 13 06 17 37.9–4.0 38.8N–.80 142.3E–.20 24 4.7s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 06 19 09.7–.84 40.10N–.05 142.20E–.05 49–7 4.7b 246 1-146
NIED III 13 06 19 00 40.10N 142.20E 47 4.5W **¶602658391**
MOS III 13 06 19 08.6–1.0 40.15N 142.16E 50 5.0b
JMA III 13 06 19 09.9–.10 40.09N 142.17E 44–2 4.3
ISCJB III 13 06 19 09.5–.52 40.13N–.04 142.13E–.05 57–3 4.6b,3.7s
NEIC III 13 06 19 11.8–.59 40.07N 142.15E 68–5 4.6b,3.7s
IDC III 13 06 19 12.2–2.0 40.03N 142.15E 74–17 4.5,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ96.00000°. M$_0$5.33000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=103.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.4km az=41.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.8km az=134.0. Recorded [3 JMA] in Aomori.
IDC Error ellipse: s-maj=13.3km s-min=11.7km az=124.0.
ISC III 13 06 22 32.6–1.4 36.09N–.05 141.4E–.10 26 3.8b 14 1-70
NIED III 13 06 22 00 36.10N 141.20E 29 3.7W **¶602658381**
IDC III 13 06 22 25.3–1.6 36.46N 142.12E 0 3.9L,3.8
ISCJB III 13 06 22 30.1–1.0 36.09N–.05 141.54E–.10 26 3.8b,3.5s
JMA III 13 06 22 34.9–.30 36.07N 141.16E 32–5 3.8,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ15.00000°,λ-81.00000°. NP2:ϕ_s9.00000°,δ76.00000°,λ-92.00000°. M$_0$3.93000×10^{14}
IDC Error ellipse: s-maj=54.5km s-min=21.5km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.1km az=4.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 06 27 21.9–.91 38.14N–.08 142.03E–.08 30 3.7b 15 1-146
IDC III 13 06 27 17.5–.81 38.33N 141.91E 0 3.8,3.6 **¶17194765**
ISCJB III 13 06 27 20.3–.78 38.18N–.09 142.13E–.07 30 3.6b,3.6
JMA III 13 06 27 27.2–.20 38.12N 141.72E 37 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=21.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=8.2km az=175.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 06 29 13.9–1.3 36.58N–.03 141.20E–.05 32–7 3.8b 64 1-152
NIED III 13 06 29 00 36.60N 141.30E 32 3.9W **¶602658376**
ISCJB III 13 06 29 13.6–.59 36.54N–.03 141.37E–.05 48–5 3.9b
JMA III 13 06 29 14.6–.10 36.58N 141.25E 33–2 4.3
NEIC III 13 06 29 15.1–.70 36.58N 141.36E 44–6 4.0b
IDC III 13 06 29 16.0–2.5 36.52N 141.22E 52–24 4.1L,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ31.00000°,λ-93.00000°. NP2:ϕ_s237.00000°,δ59.00000°,λ-88.00000°. M$_0$8.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.3km az=170.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.0km az=97.0.
IDC Error ellipse: s-maj=19.1km s-min=13.0km az=68.0.

JMA III 13 06 30 53.1–.20 35.99N 141.30E 23–4 3.4 ¶603145352
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 13 06 31 13.4–5.7 36.77N 140.77E 44–50 3.9,3.9 ¶17194769
IDC Error ellipse: s-maj=51.2km s-min=29.8km az=81.0.
JMA III 13 06 34 47.2–.10 38.42N 141.97E 36–4 3.6 ¶602658368
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 06 36 27.8–.88 36.97N–.08 141.82E–.07 19 3.7b 20 1-98
IDC III 13 06 36 24.4–.95 36.91N 141.98E 0 4.3L,3.9 **¶600543190**
ISCJB III 13 06 36 26.8–.75 37.07N–.09 141.90E–.06 19 3.7b,3.9
JMA III 13 06 36 29.7–.20 36.97N 141.69E 23–2 4.3,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=22.0km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=6.9km az=1.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 06 40 36.1–.30 39.49N 142.56E 14–4 4.1 ¶602658350
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 13 06 45 03.4–.10 36.32N 140.93E 47–3 2.9 ¶603049699
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 06 47 30.2–1.3 36.23N–.04 141.39E–.05 32–10 4.2b 63 1-152
NIED III 13 06 47 00 36.30N 141.20E 35 4.4W **¶600543214**
IDC III 13 06 47 25.6–.55 36.18N 141.32E 0 4.3,4.2
NEIC III 13 06 47 27.3–2.4 36.21N 141.42E 12–15 4.5b,4.2
ISCJB III 13 06 47 28.4–.69 36.21N–.03 141.45E–.05 33–7 4.2b,3.5s
JMA III 13 06 47 30.9–.10 36.27N 141.24E 38–3 4.4,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ28.00000°,λ-33.00000°. NP2:ϕ_s252.00000°,δ75.00000°,λ-114.00000°. M$_0$4.50000×10^{15}
IDC Error ellipse: s-maj=17.0km s-min=12.9km az=95.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.5km az=2.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 06 59 24.8–.10 36.25N 141.05E 39–2 3.6
NIED III 13 06 59 00 36.20N 141.10E 26 3.6W **¶600543236**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s128.00000°,δ20.00000°,λ2.00000°. NP2:ϕ_s36.00000°,δ89.00000°,λ110.00000°. M$_0$3.17000×10^{14}
JMA III 13 07 03 33.8–.30 39.27N 142.42E 24–5 3.9 ¶602658307
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 13 07 07 32.1–.66 35.29N–.05 141.22E–.08 33 4.4b 21 1-148
IDC III 13 07 07 27.0–.68 35.18N 141.20E 0 4.6,4.4b **¶17194779**
JMA III 13 07 07 30.3–.20 35.29N 141.27E 12–3 3.9,4.4b
ISCJB III 13 07 07 30.6–.54 35.29N–.05 141.26E–.08 33 4.3b,4.4b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 13 07 16 06.1–.78 37.62N–.09 141.69E–.08 60 3.6b 18 1-77
IDC III 13 07 15 58.3–.83 37.62N 141.67E 0 3.8,3.7 **¶600543262**
ISCJB III 13 07 16 04.5–.62 37.58N–.08 141.83E–.07 60 3.6b,3.7
JMA III 13 07 16 06.1–.20 37.62N 141.73E 33–4 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=21.2km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=7.1km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 07 17 40.9–.10 36.21N 140.87E 42–1 3.2 ¶603145353
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 07 19 29.9–.10 37.30N 141.12E 24–1 2.6 ¶603145354
ISC III 13 07 20 03.6–1.8 37.46N–.03 141.23E–.06 1–11 4.0b 47 0-147
NIED III 13 07 20 00 37.40N 141.20E 8 4.1W **¶17194781**
IDC III 13 07 20 03.9–.68 37.56N 141.41E 0 4.2,4.0
JMA III 13 07 20 04.1–.10 37.41N 141.23E 9–1 4.2,4.0
NEIC III 13 07 20 07.3–3.6 37.57N 141.28E 23–26 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ30.00000°,λ-38.00000°. NP2:ϕ_s360.00000°,δ72.00000°,λ-114.00000°. M$_0$1.47000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=16.5km az=112.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=9.5km az=91.0.
ISC III 13 07 28 06.5–.58 38.18N–.06 141.98E–.08 30 3.9b 34 1-146
ISCJB III 13 07 28 04.5–.53 38.17N–.05 142.19E–.09 30 3.8b **¶16461591**
JMA III 13 07 28 08.5–.20 38.30N 141.87E 37–5 4.0
IDC III 13 07 28 08.8–.73 38.22N 141.91E 49–7 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.3km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=11.2km az=98.0.
JMA III 13 07 32 56.2–.50 36.41N 141.88E 19 3.0 ¶603145355
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
IDC III 13 07 34 46.9–7.1 36.69N 141.21E 0 3.8,3.4
JMA III 13 07 35 04.3–.40 36.49N 141.11E 55 2.9,3.4 **¶600543303**
IDC Error ellipse: s-maj=654.5km s-min=30.0km az=111.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 13 07 37 59.0–2.6 39.50N–.06 142.81E–.06 6–15 4.6b 61 1-145
IDC III 13 07 37 57.9–.59 39.49N 142.86E 0 4.6,4.4 **¶16449557**
ISCJB III 13 07 37 59.0–1.6 39.50N–.05 142.91E–.06 17–11 4.5b,4.4
JMA III 13 07 38 00.3–.40 39.65N 142.84E 9–4 4.5,4.4
NEIC III 13 07 38 03.2–.30 39.50N 142.81E 35 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=14.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.8km az=38.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.3km az=119.0.
JMA III 13 07 45 16.5–.10 37.38N 141.36E 25–1 3.6 ¶602658233
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 07 53 26.1–2.5 36.30N–.05 141.45E–.10 16–16 3.5b 17 1-60
IDC III 13 07 53 22.4–2.1 36.41N 141.76E 0 3.5,3.5 **¶17194788**
JMA III 13 07 53 29.3–.10 36.30N 141.25E 41–3 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=25.7km az=56.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 08 07 48.9–.90 35.69N–.07 141.96E–.08 22 3.5b 17 1-65
IDC III 13 08 07 45.7–.91 35.76N 142.15E 0 4.1L,3.8 **¶600543336**
ISCJB III 13 08 07 47.1–.73 35.69N–.06 142.04E–.07 22 3.5b,3.8
JMA III 13 08 07 50.1–.30 35.72N 141.82E 27–3 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.0km s-min=17.9km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.9km az=31.1.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 13 08 10 05.1–.94 37.20N–.08 141.93E–.08 24 3.5b 13 1-63
IDC III 13 08 10 01.5–1.1 37.23N 142.04E 0 3.6,3.5 **¶602658193**
ISCJB III 13 08 10 03.0–.81 37.16N–.07 142.04E–.07 24 3.5b,3.5
JMA III 13 08 10 06.7–.30 37.27N 141.83E 26–4 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.7km s-min=21.7km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=8.4km az=165.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 13 08 10 46.2–.40 38.73N 142.33E 30–5 4.3 ¶600543348
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 13 08 11 33.9–.64 39.17N–.05 142.40E–.08 27 4.1b 40 1-151
IDC III 13 08 11 29.6–.66 39.10N 142.46E 0 4.1,4.0 **¶602658188**
ISCJB III 13 08 11 31.8–.46 39.11N–.04 142.46E–.06 27 4.0b,4.0

NEIC III 13 08 11 34.8–.31 39.09N 142.42E 35 4.4b,4.0
JMA III 13 08 11 35.4–.40 39.23N 142.25E 27–5 4.3,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=15.3km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.1km az=2.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.8km az=123.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 13 08 12 19.1–.81 39.18N–.08 142.91E–.08 16 4.2b 33 1-86
IDC III 13 08 12 15.8–1.2 39.03N 143.04E 0 4.2,4.1 **¶600543354**
ISCJB III 13 08 12 18.1–.60 39.19N–.05 142.76E–.08 16 4.1b,4.1
NEIC III 13 08 12 21.5–.71 39.12N 142.93E 35 4.5b,4.1
JMA III 13 08 12 24.4–.30 39.70N 142.71E 22 4.4,4.1
ISC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=23.0km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=7.5km az=169.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=8.9km az=110.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 13 08 17 02.2–1.4 36.9N–.20 141.45E–.07 33 3.7b 12 1-90
IDC III 13 08 17 03.4–.83 37.36N 142.86E 0 3.9,3.7 **¶17194794**
JMA III 13 08 17 05.8–.20 36.83N 141.17E 39–1 3.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=18.2km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 08 41 48.5–.48 35.78N–.05 141.80E–.06 22 4.3b 70 2-147
IDC III 13 08 41 45.2–.54 35.74N 141.79E 0 4.4,4.3 **¶16452055**
ISCJB III 13 08 41 46.5–.32 35.74N–.04 141.80E–.05 22 4.3b,4.3
NEIC III 13 08 41 48.4–1.7 35.71N 141.79E 22–12 4.5b,4.3
JMA III 13 08 42 16.4–.30 37.63N 141.82E 29 4.4,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.9km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=40.4.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.2km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 13 08 46 13.4–.71 35.69N–.08 141.8E–.10 25 3.9b 17 3-147
IDC III 13 08 46 09.6–.72 35.71N 141.74E 0 4.1,4.0 **¶17194799**
ISCJB III 13 08 46 11.5–.64 35.71N–.07 141.8E–.10 25 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 08 54 47.5–.68 35.71N–.09 141.81E–.08 26 4.3b 18 1-147
IDC III 13 08 54 42.9–.68 35.91N 141.26E 0 4.5,4.3 **¶600543432**
ISCJB III 13 08 54 45.3–.48 35.70N–.06 141.91E–.07 26 4.2b,4.3
JMA III 13 08 54 46.1–.50 35.81N 141.87E 28 4.5,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=14.8km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.0km az=138.9.
JMA Error ellipse: s-maj=4.4km s-min=3.6km az=-1.0.
JMA III 13 09 02 10.4–.20 38.68N 142.36E 37–4 3.9
¶17194801
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 13 09 05 11.3–.10 36.58N 141.02E 41–3 3.9
¶602658110
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 09 25 06.8–.39 39.04N–.03 142.56E–.03 20–3 5.4b,4.9s 1409 1-159
NIED III 13 09 25 00 39.00N 142.70E 5 5.2W,4.9s **¶17194816**
IDC III 13 09 25 03.7–.42 39.01N 142.59E 0 5.1,5.1
BJI III 13 09 25 04.9 38.95N 142.38E 18 5.5b,5.3b
JMA III 13 09 25 04.0–.20 39.04N 142.67E 10–2 5.5,5.3b
ISCJB III 13 09 25 04.7–.66 38.97N–.02 142.61E–.02 15–4 5.3b,4.9s
MOS III 13 09 25 06.5–.86 39.19N 142.52E 22 5.6b,4.7s
NEIC III 13 09 25 08.0–1.0 39.02N 142.44E 25–7 5.4b,4.7s
GCMT III 13 09 25 08.0–.10 39.10N 142.56E 12 5.2W,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ40.00000°,λ-117.00000°. NP2:ϕ_s305.00000°,δ55.00000°,λ-69.00000°. $M_0$6.01000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=10.7km az=127.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=163.0.
MOS Error ellipse: s-maj=5.7km s-min=4.0km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=139.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c71; s109,c203; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.18±.10 $M_{\theta\theta}$6.12±.09; $M_{\phi\phi}$0.06±.10; $M_{r\theta}$1.38±.30; $M_{\theta\phi}$-1.76±.08; $M_{\phi r}$0.74±.41; Best double couple: NP1:ϕ_s275.00000°,δ51.00000°,λ-103.00000°. NP2:ϕ_s115.00000°,δ41.00000°,λ-75.00000°. Principal axes: T 6.6970,Plg5.0000°,Azm14.0000°; N -0.2210,Plg10.0000°,Azm283.0000° ; P -6.4700,Plg79.0000°,Azm131.0000° $M_0$6.58300×10^{16}
JMA III 13 09 29 21.7–.10 35.27N 140.61E 19–3 3.6
¶602658081
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 09 31 53.1–.62 37.24N–.07 141.91E–.06 24 3.8b 26 1-90
IDC III 13 09 31 49.3–.70 37.21N 142.00E 0 4.1,3.9 **¶16445769**
ISCJB III 13 09 31 51.2–.46 37.19N–.05 142.01E–.06 24 3.9b,3.9
NEIC III 13 09 31 53.6–3.5 37.22N 142.08E 27–26 4.4b,3.9
JMA III 13 09 31 53.5–.30 37.26N 141.86E 27–5 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=16.3km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=147.7.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=9.7km az=107.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 13 09 37 33.9–1.7 36.8N–.10 141.7E–.20 33 3.5b 12 1-61
IDC III 13 09 37 28.4–3.0 36.75N 142.05E 0 3.9L,3.6 **¶16339497**
ISCJB III 13 09 37 32.3–1.4 36.66N–.10 141.9E–.20 33 3.4b,3.6
JMA III 13 09 37 33.4–.60 36.77N 141.81E 45 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=93.8km s-min=24.6km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=25.1km s-min=8.4km az=151.2.
JMA Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.
ISC III 13 09 42 02.7–1.5 36.8N–.20 141.3E–.20 33 3.7b 9 1-74
IDC III 13 09 41 54.1–2.9 37.20N 142.58E 0 3.9,3.8 **¶602658043**
ISCJB III 13 09 42 00.4–1.3 36.8N–.20 141.5E–.20 33 3.7b,3.8
JMA III 13 09 42 01.4–.20 36.70N 141.28E 31–3 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=117.3km s-min=23.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=34.5km s-min=11.6km az=43.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 09 45 16.8–.30 37.33N 141.80E 16 3.9
¶602658037
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 09 45 40.4–.42 36.52N–.05 141.80E–.05 19 4.4b 90 1-152
ISCJB III 13 09 45 38.9–.26 36.52N–.04 141.83E–.03 19 4.5b **¶600543544**
JMA III 13 09 45 39.8–.20 36.60N 141.84E 68–4 4.3
NEIC III 13 09 45 42.9–.24 36.53N 141.78E 35 4.7b
IDC III 13 09 45 44.5–2.7 36.46N 141.66E 55–25 4.1,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=171.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=151.0.
IDC Error ellipse: s-maj=17.7km s-min=13.3km az=87.0.
ISC III 13 09 52 31.0–.25 38.86N–.03 142.02E–.03 39–2 5.3b,5.1s 1222 1-165
NIED III 13 09 52 00 38.80N 142.10E 47 5.6W,5.1s **¶16310922**
BJI III 13 09 52 28.8 38.75N 141.98E 40 5.7b,5.2
ISCJB III 13 09 52 30.3–.49 38.91N–.02 141.92E–.02 39–4 5.3b,5.1s
JMA III 13 09 52 30.8–.10 38.81N 142.12E 42–2 5.6,5.1s
NEIC III 13 09 52 31.0–.10 38.85N 141.86E 33 5.6W,5.4b
GCMT III 13 09 52 31.0–.10 38.90N 142.20E 50–0 5.6W,5.4b
MOS III 13 09 52 31.6–.86 39.12N 141.87E 42 5.6b,5.2s
IDC III 13 09 52 31.6–1.8 38.80N 141.97E 43–16 5.3,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ97.00000°. $M_0$2.46000×10^{17}

ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.2km az=162.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=144.0. Recorded [3 JMA] in Iwate. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.98 $M_{\theta\theta}$-0.14 $M_{\phi\phi}$-1.84 $M_{r\theta}$0.61 $M_{\theta\phi}$-1.66 $M_{\phi r}$1.24 Best double couple: NP1:ϕ_s217.00000°,δ30.00000°,λ99.00000°. NP2:ϕ_s27.00000°,δ60.00000°,λ85.00000°. Principal axes: T 2.3500,Plg75.0000° ,Azm284.0000°; N 0.8600,Plg4.0000°,Azm30.0000°; P -3.2100,Plg15.0000°,Azm121.0000° $M_0$2.90000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c197; s116,c246;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36±.04 $M_{\theta\theta}$0.07±.03; $M_{\phi\phi}$-2.43±.03; $M_{r\theta}$0.87±.03; $M_{\theta\phi}$-0.51±.03; $M_{\phi r}$1.68±.04; Best double couple: NP1:ϕ_s21.00000° ,δ64.00000°,λ100.00000°. NP2:ϕ_s180.00000°,δ28.00000°,λ71.00000°. Principal axes: T 3.0500,Plg69.0000°,Azm311.0000°; N 0.0880,Plg9.0000°,Azm197.0000° ; P -3.1400,Plg19.0000°,Azm104.0000° $M_0$3.09500×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=103.6.
IDC Error ellipse: s-maj=12.1km s-min=9.4km az=94.0.
JMA III 13 10 08 33.9–.10 37.11N 141.06E 55–1 3.9
¶602657995
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 10 41 00.2–.30 38.84N 142.47E 18–3 3.8
¶602657757
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 10 43 11.4–.53 38.17N–.05 141.62E–.07 68 4.3b 70 1-86
IDC III 13 10 43 02.5–.68 38.15N 141.66E 0 4.1,4.0 **¶602657754**
JMA III 13 10 43 09.5–.10 38.18N 141.68E 37 4.4,4.0
ISCJB III 13 10 43 09.8–.32 38.18N–.04 141.63E–.05 68 4.2b,4.0
NEIC III 13 10 43 11.3–.59 38.19N 141.63E 65–5 4.8b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=16.5km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=41.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=125.0.
ISC III 13 10 49 28.1–.45 36.61N–.06 141.61E–.07 26 4.3b 72 3-152
IDC III 13 10 49 24.0–.66 36.61N 141.48E 0 4.2,4.1 **¶16424454**
ISCJB III 13 10 49 26.5–.28 36.61N–.04 141.58E–.05 26 4.3b,4.1
NEIC III 13 10 49 30.4–.71 36.58N 141.52E 45–7 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=18.4km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.1km az=141.4.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.1km az=47.0.
JMA III 13 11 02 51.1–.10 36.26N 140.94E 39–3 3.1
¶603049712
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 13 11 06 33.9–4.5 37.71N 141.49E 108–40 3.9,3.7
¶17194839
IDC Error ellipse: s-maj=23.8km s-min=17.4km az=105.0.
ISC III 13 11 07 52.4–.50 36.16N–.07 141.03E–.06 31 4.5b 80 1-148
NIED III 13 11 07 00 36.30N 141.20E 5 4.0W **¶16424458**
IDC III 13 11 07 47.8–.69 36.16N 141.07E 0 4.1,3.9
JMA III 13 11 07 50.7–.10 36.29N 141.17E 26–3 4.2,3.9
ISCJB III 13 11 07 50.7–.29 36.08N–.04 141.10E–.04 31 4.4b,3.9
NEIC III 13 11 07 55.2–.85 36.19N 141.04E 51–8 4.8b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ30.00000°,λ-76.00000°. NP2:ϕ_s344.00000°,δ61.00000°,λ-98.00000°. $M_0$1.17000×10^{15}
IDC Error ellipse: s-maj=23.3km s-min=15.5km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.1km az=172.9.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.6km az=126.0.
ISC III 13 11 11 48.8–.84 37.4N–.20 141.9E–.10 24 3.7b 13 2-90
NIED III 13 11 11 00 36.10N 141.20E 32 4.5W **¶603049713**
IDC III 13 11 11 45.1–.91 37.37N 141.86E 0 4.0,3.8
JMA III 13 11 11 58.2–.20 36.12N 141.21E 25–2 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ26.00000°,λ97.00000°. NP2:ϕ_s168.00000°,δ65.00000°,λ87.00000°. $M_0$6.09000×10^{15}
IDC Error ellipse: s-maj=48.3km s-min=17.9km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 11 15 12.6–.71 36.23N–.05 141.32E–.06 26 3.6b 21 1-91
NIED III 13 11 15 00 36.30N 141.20E 32 3.9W **¶600543691**
IDC III 13 11 15 08.4–.73 36.12N 141.41E 0 3.8,3.6
ISCJB III 13 11 15 11.0–.59 36.21N–.04 141.37E–.06 26 3.5b,3.6
JMA III 13 11 15 14.6–.10 36.29N 141.16E 43–3 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ35.00000°,λ-154.00000°. NP2:ϕ_s142.00000°,δ75.00000°,λ-57.00000°. $M_0$7.27000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=16.8km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=6.4km az=7.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 11 19 32.3–4.4 39.53N–.05 142.74E–.05 0–27 4.5b 106 1-145
NIED III 13 11 19 00 39.60N 142.70E 8 4.3W **¶16339502**
IDC III 13 11 19 31.4–.64 39.48N 142.74E 0 4.4,4.3
ISCJB III 13 11 19 33.0–1.2 39.52N–.03 142.81E–.03 12–7 4.4b,4.3
JMA III 13 11 19 33.2–.20 39.55N 142.71E 1 4.4,4.3
NEIC III 13 11 19 37.9–.86 39.56N 142.61E 35–7 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ43.00000°,λ-110.00000°. NP2:ϕ_s70.00000°,δ50.00000°,λ-72.00000°. $M_0$2.95000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.4km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=141.0.
JMA III 13 11 23 40.4–.20 37.31N 141.70E 28–3 3.8
¶602657656
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 13 11 25 07.3–1.2 37.55N 141.34E 0 3.7,3.5
¶17194849
IDC Error ellipse: s-maj=37.9km s-min=30.4km az=58.0.
ISC III 13 11 27 30.5–.44 38.65N–.05 142.20E–.05 41 4.7b 259 1-145
NIED III 13 11 27 00 38.70N 142.10E 44 4.7W **¶600543732**
IDC III 13 11 27 22.8–.55 38.41N 142.23E 0 4.6,4.5
MOS III 13 11 27 30.6–.91 38.94N 141.96E 37 4.8b,4.5
JMA III 13 11 27 30.8–.20 38.65N 142.12E 44–3 4.8,4.5
ISCJB III 13 11 27 30.0–.22 38.70N–.03 142.04E–.03 41 4.7b,4.5
NEIC III 13 11 27 32.6–.64 38.71N 141.94E 51–6 4.7b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ18.00000°,λ87.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ91.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=14.6km s-min=12.7km az=111.0.
MOS Error ellipse: s-maj=7.8km s-min=5.1km az=102.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=152.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.0km az=146.0.
JMA III 13 11 42 16.5–.10 37.31N 141.86E 22–3 4.2
¶602657590
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 11 44 29.9–.10 37.21N 141.41E 37–1 3.6
¶603049714
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 11 54 11.4–1.1 36.44N–.07 141.23E–.08 32 3.6b 15 1-60
IDC III 13 11 54 06.7–1.1 36.46N 141.20E 0 3.7,3.6 **¶17194854**
ISCJB III 13 11 54 09.4–.84 36.46N–.05 141.33E–.08 32 3.5b,3.6
JMA III 13 11 54 12.8–.10 36.41N 141.11E 49–2 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=35.1km s-min=18.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.2km az=165.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 11 56 26.5–1.5 35.94N–.04 141.36E–.06 33–9 4.7b 140 0-152
NIED III 13 11 56 00 36.10N 141.40E 23 4.5W **¶16310933**
IDC III 13 11 56 21.5–.46 35.93N 141.30E 0 4.5,4.5L

JMA III 13 11 56 25.7–.20 36.07N 141.37E 32–4 4.8,4.5L
ISCJB III 13 11 56 26.5–.56 35.93N–.03 141.33E–.05 47–4 4.6b,4.5L
NEIC III 13 11 56 27.2–.81 35.90N 141.34E 39–7 4.7b,4.5L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S323.00000°,δ52.00000°,λ-7.00000°. NP2:ϕ_S57.00000°,δ84.00000°,λ-142.00000°. $M_0$6.36000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=10.7km az=107.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=7.7.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.4km az=115.0. Recorded [3 JMA] in Ibaraki.
JMA III 13 12 07 53.4–.10 36.06N 141.19E 42–2 3.6
¶602657548

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 12 11 12.2–.20 35.62N 140.96E 33 1.2
¶600543827

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 13 12 20 51.5–.20 35.85N 141.75E 13–2 3.7
¶602657515

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 13 12 28 29.7–8.0 38.16N 141.99E 0 4.2,4.1
¶17194862

IDC Error ellipse: s-maj=306.7km s-min=23.1km az=65.0.
JMA III 13 12 29 03.9–.10 38.63N 142.00E 49–3 3.6
¶603049716

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 12 31 04.8–1.7 36.73N–.09 141.05E–.08 33–7 3.5b 17 0-91
IDC III 13 12 30 59.8–1.0 36.67N 141.06E 0 3.8,3.5 **¶602657482**
ISCJB III 13 12 31 04.7–1.0 36.74N–.06 141.03E–.10 48–8 3.5b,3.5
JMA III 13 12 31 05.9–.10 36.79N 140.98E 46–2 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=38.3km s-min=25.2km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=8.7km az=30.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 12 32 47.6–.20 35.65N 140.84E 27–2 2.1
¶603049717

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 12 40 42.6–.10 37.42N 141.38E 24–1 3.8
¶603049718

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 12 44 29.2–.60 37.26N–.04 141.97E–.06 37–2 4.7b,4.0s 114 1-152
IDC III 13 12 44 23.6–.57 37.28N 142.01E 0 4.5,4.3 **¶16313302**
ISCJB III 13 12 44 28.5–.65 37.23N–.03 141.94E–.05 48–6 4.7b,4.1s
JMA III 13 12 44 28.4–.20 37.30N 141.86E 26–3 4.8,4.1s
NEIC III 13 12 44 30.7–.59 37.26N 141.92E 51–6 4.8b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=12.4km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.7km az=125.0. Recorded [3 JMA] in Fukushima.
ISC III 13 12 53 01.7–.43 35.03N–.04 141.22E–.06 35 4.4b 90 0-146
NIED III 13 12 52 00 35.00N 141.40E 35 4.6W **¶602657457**
IDC III 13 12 52 56.5–.57 35.03N 141.22E 0 4.2,4.1
JMA III 13 12 52 58.2–.20 35.03N 141.36E 46 3.8,4.1
NEIC III 13 12 53 00.1–3.0 35.04N 141.31E 20–18 4.6b,4.1
ISCJB III 13 12 53 00.3–.26 35.00N–.03 141.20E–.04 35 4.3b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S182.00000°,δ47.00000°,λ10.00000°. NP2:ϕ_S85.00000°,δ83.00000°,λ136.00000°. $M_0$9.89000×10^{15}
NEIC Event type se.
ISCJB Event type ke.
ISC III 13 12 53 36.0–.43 35.02N–.06 141.09E–.08 48 4.6b 97 2-152
IDC III 13 12 53 28.8–.55 35.00N 141.17E 0 4.4,4.4 **¶17194875**
NEIC III 13 12 53 32.1–3.2 35.00N 141.16E 16–19 4.8b,4.4
ISCJB III 13 12 53 34.4–.26 35.01N–.04 141.05E–.05 48 4.6b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 12 59 10.8–.45 38.20N–.07 142.96E–.08 18 4.4b 62 4-148
IDC III 13 12 59 08.1–.68 38.26N 142.96E 0 4.2,4.1 **¶16424471**
ISCJB III 13 12 59 09.0–.29 38.16N–.05 142.94E–.06 18 4.4b,4.1
NEIC III 13 12 59 13.5–.82 38.19N 142.94E 38–8 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=15.4km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.9km az=138.1.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.6km az=106.0.
ISC III 13 13 01 09.3–.58 38.30N–.06 142.39E–.06 24 4.4b 58 1-145
ISCJB III 13 13 01 06.8–.41 38.17N–.04 142.50E–.05 24 4.3b,3.9s **¶16310942**
JMA III 13 13 01 09.7–.30 38.24N 142.19E 16 4.2,3.9s
NEIC III 13 13 01 10.8–.45 38.29N 142.41E 35 4.7b,3.9s
IDC III 13 13 01 12.8–2.4 38.24N 142.27E 55–21 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.5km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.0km az=146.0.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=130.0.
JMA III 13 13 23 15.8–.10 35.87N 140.92E 13–1 2.5
¶603145357

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 13 13 23 24.2–2.6 36.78N 140.87E 0 3.9,3.8
¶16477511

IDC Error ellipse: s-maj=107.9km s-min=21.6km az=69.0.
ISC III 13 13 24 00.4–.69 35.90N–.09 141.6E–.10 26 3.8b 20 3-147
IDC III 13 13 23 55.9–.71 35.81N 141.59E 0 4.0,3.9 **¶17194881**
NEIC III 13 13 23 57.5–5.8 35.82N 141.60E 11–35 4.9b,3.9
ISCJB III 13 13 23 58.5–.57 35.93N–.07 141.6E–.10 26 3.8b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 13 27 38.4–1.1 37.41N–.04 141.32E–.07 54–10 3.7b 42 1-147
ISCJB III 13 13 27 37.9–.68 37.37N–.04 141.33E–.08 65–6 3.6b **¶600543968**
JMA III 13 13 27 38.6–.10 37.40N 141.33E 47–1 4.0
IDC III 13 13 27 41.7–2.1 37.29N 141.23E 89–20 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.9km az=2.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.0km s-min=11.7km az=86.0.
JMA III 13 13 39 43.6–.10 37.21N 141.37E 40–1 3.6
¶602657388

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 13 41 33.4–.64 36.58N–.08 141.9E–.10 19 3.8b 20 3-147
IDC III 13 13 41 30.4–.70 36.60N 141.91E 0 4.1s,4.1 **¶16407508**
ISCJB III 13 13 41 31.4–.52 36.55N–.06 142.0E–.10 19 3.9s,3.8b
NEIC III 13 13 41 36.0–1.2 36.59N 141.86E 38–11 4.5b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=17.2km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.5km az=18.7.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.9km az=65.0.
ISC III 13 13 43 40.5–.95 38.97N–.04 142.49E–.05 30–6 4.6b 136 1-145
NIED III 13 13 43 00 39.00N 142.50E 29 4.7W **¶16310946**
JMA III 13 13 43 38.6–.30 38.97N 142.51E 26–3 4.8
ISCJB III 13 13 43 39.5–.22 38.93N–.03 142.51E–.03 33 4.5b
NEIC III 13 13 43 41.1–1.7 38.97N 142.40E 33–12 4.7b
IDC III 13 13 43 42.2–1.7 38.91N 142.39E 46–17 4.3,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S330.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_S156.00000°,δ56.00000°,λ-87.00000°. $M_0$1.27000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=167.5.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=130.0. Recorded [3 JMA] in Iwate.

IDC Error ellipse: s-maj=13.3km s-min=10.1km az=99.0.
JMA III 13 14 00 30.2–.40 36.73N 141.57E 29–4 3.5
¶602657382

JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 13 14 01 17.2–.56 36.84N–.05 141.37E–.07 33 4.0b 44 1-147
IDC III 13 14 01 12.8–.66 36.99N 141.39E 0 4.1,3.9 **¶600543982**
ISCJB III 13 14 01 15.5–.42 36.83N–.05 141.43E–.05 33 3.9b,3.9
NEIC III 13 14 01 17.2–3.0 36.93N 141.40E 30–21 4.5b,3.9
JMA III 13 14 01 21.1–.10 36.93N 141.11E 47–1 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.6km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.7km az=28.9.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.5km az=78.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 14 02 11.9–.91 39.13N–.08 142.83E–.09 16 4.2b 25 1-75
IDC III 13 14 02 08.6–1.1 39.13N 143.13E 0 4.5,4.5s **¶16407515**
ISCJB III 13 14 02 10.2–.64 39.09N–.06 142.85E–.08 16 4.5s,4.0b
NEIC III 13 14 02 13.9–.74 39.06N 142.97E 35 4.6b,4.0b
JMA III 13 14 02 15.9–.30 39.21N 142.55E 17–4 4.0,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=24.7km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.6km az=138.5.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=11.0km az=138.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.
ISC III 13 14 04 25.6–1.4 37.25N–.06 141.68E–.08 49–12 4.2b 74 1-151
NIED III 13 14 04 00 37.30N 141.60E 41 4.3W **¶16407517**
ISCJB III 13 14 04 24.0–.80 37.24N–.04 141.70E–.06 51–6 4.2b
JMA III 13 14 04 25.3–.20 37.30N 141.59E 35–2 4.1
NEIC III 13 14 04 26.9–.64 37.28N 141.64E 59–5 4.6b
IDC III 13 14 04 26.5–1.9 37.24N 141.60E 56–18 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S213.00000°,δ31.00000°,λ116.00000°. NP2:ϕ_S3.00000°,δ63.00000°,λ75.00000°. $M_0$2.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=6.2km az=20.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=127.0.
IDC Error ellipse: s-maj=14.3km s-min=10.0km az=95.0.
ISC III 13 14 08 49.6–.54 35.23N–.04 140.61E–.05 21–2 3.8b 36 0-92
NIED III 13 14 08 00 35.30N 140.60E 5 4.1W **¶17194888**
IDC III 13 14 08 46.3–.64 35.12N 140.62E 0 4.0,3.8
ISCJB III 13 14 08 49.1–.50 35.19N–.03 140.62E–.05 30–3 3.7b,3.8
JMA III 13 14 08 50.0–.10 35.28N 140.60E 20–2 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S131.00000°,δ11.00000°,λ-15.00000°. NP2:ϕ_S235.00000°,δ87.00000°,λ-100.00000°. $M_0$1.71000×10^{15}
IDC Error ellipse: s-maj=22.0km s-min=14.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.4km az=2.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 14 16 43.3–.66 36.32N–.06 141.76E–.07 26 3.7b 22 1-90
IDC III 13 14 16 38.5–.88 36.08N 141.75E 0 4.0,3.8 **¶16407520**
NEIC III 13 14 16 39.4–6.3 36.15N 141.91E 5–38 4.5b,3.8
ISCJB III 13 14 16 41.5–.59 36.28N–.06 141.92E–.07 26 3.8b,3.8
JMA III 13 14 16 42.9–.30 36.39N 141.76E 9 4.0,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=24.0km az=92.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=13.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=41.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 13 14 26 34.5–2.0 38.16N–.04 142.04E–.08 7–11 3.6b 28 1-78
IDC III 13 14 26 33.5–1.0 38.08N 141.87E 0 3.7,3.6 **¶602657370**
JMA III 13 14 26 37.1–.20 38.23N 142.11E 34 4.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=18.7km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 14 28 36.1–.95 36.89N–.05 141.26E–.08 45–8 4.4b 60 0-151
NIED III 13 14 28 00 36.90N 141.30E 44 4.5W **¶602443456**
NEIC III 13 14 28 35.6–.77 36.90N 141.21E 40–7 4.5b
ISCJB III 13 14 28 35.5–.74 36.86N–.04 141.24E–.08 58–5 4.3b
IDC III 13 14 28 36.6–2.5 36.85N 141.13E 49–24 4.7L,4.3
JMA III 13 14 28 36.4–.10 36.91N 141.26E 43–1 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S189.00000°,δ17.00000°,λ68.00000°. NP2:ϕ_S32.00000°,δ75.00000°,λ96.00000°. $M_0$7.10000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=6.6km az=97.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.5km az=0.6.
IDC Error ellipse: s-maj=17.1km s-min=15.1km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 14 30 31.2–.20 36.99N 141.22E 42–1 3.6
¶602657367

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 14 31 56.1–.40 39.15N–.03 142.89E–.03 23–2 5.0b,5.0s 573 1-149
NIED III 13 14 31 00 39.20N 142.90E 26 5.1W,5.0s **¶16310948**
BJI III 13 14 31 53.6 39.13N 142.93E 26 5.3b,5.0s
JMA III 13 14 31 54.2–.40 39.19N 142.94E 4–3 5.2,5.0s
ISCJB III 13 14 31 56.3–.76 39.12N–.02 142.86E–.02 33–5 5.0b,4.9s
MOS III 13 14 31 56.3–.82 39.36N 142.78E 26 5.4b,5.0s
NEIC III 13 14 31 57.1–.25 39.17N 142.73E 27–1 5.0b,5.0s
GCMT III 13 14 31 57.1–.30 39.24N 142.97E 35–1 5.2W,5.0s
IDC III 13 14 31 59.0–2.0 39.14N 142.82E 42–18 4.7s,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S176.00000°,δ19.00000°,λ64.00000°. NP2:ϕ_S24.00000°,δ73.00000°,λ99.00000°. $M_0$4.46000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.8km az=155.3.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=105.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=148.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c71; s94,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.36±.27 $M_{\theta\theta}$-0.66±.16; $M_{\phi\phi}$-4.70±.17; $M_{r\theta}$1.77±.17; $M_{\theta\phi}$-1.05±.10; $M_{\phi r}$4.45±.18; Best double couple: NP1:ϕ_S19.00000°,δ66.00000°,λ94.00000°. NP2:ϕ_S189.00000°,δ24.00000°,λ81.00000°. Principal axes:
T 7.2590,Plg68.0000°,Azm296.0000°; N -0.4400,Plg4.0000°,Azm197.0000°
; P -6.8140,Plg21.0000°,Azm106.0000° $M_0$7.03700×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.0km az=139.0.
JMA III 13 14 34 16.5–.30 36.92N 141.49E 35–3 4.0
¶602657364

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 13 14 40 33.4–.47 37.56N–.05 141.80E–.05 24 4.6s,4.4b 88 1-146
IDC III 13 14 40 29.6–.58 37.54N 141.87E 0 4.3,4.2 **¶16310949**
NEIC III 13 14 40 31.2–2.7 37.59N 141.87E 8–17 4.7b,4.2
ISCJB III 13 14 40 31.8–.28 37.52N–.04 141.85E–.04 24 4.7s,4.4b
JMA III 13 14 40 31.6–.20 37.52N 141.85E 7–3 4.3,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=13.2km az=129.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.4km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 14 41 22.2–.77 38.29N–.04 142.97E–.04 26–5 5.1b,4.6s 1020 2-154
NIED III 13 14 41 00 38.30N 142.90E 8 4.8W,4.6s **¶17194893**
IDC III 13 14 41 18.5–.41 38.28N 142.85E 0 5.0,5.0
JMA III 13 14 41 19.4–.30 38.33N 142.87E 0 5.1,5.0
NEIC III 13 14 41 20.5–.42 38.28N 142.79E 12–2 5.1b,5.0
ISCJB III 13 14 41 20.1–.10 38.27N–.02 142.87E–.02 18 5.0b,4.8s
BJI III 13 14 41 22.2 38.40N 142.31E 12 5.2b,4.9s
MOS III 13 14 41 23.9–.89 38.62N 142.78E 35 5.3b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S279.00000°,δ32.00000°,λ-95.00000°. NP2:ϕ_S104.00000°,δ58.00000°,λ-87.00000°. $M_0$1.68000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=168.6.
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=100.6.
JMA III 13 14 44 03.2–.20 36.30N 141.11E 38 3.5
¶602657362

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 14 44 14.6–.56 39.05N–.05 142.40E–.06 27 4.3b 48 1-145
IDC III 13 14 44 10.3–.67 39.02N 142.41E 0 4.3,4.2 **¶16407522**
NEIC III 13 14 44 12.0–3.5 38.98N 142.40E 12–21 4.6b,4.2
ISCJB III 13 14 44 12.4–.43 38.97N–.04 142.48E–.05 27 4.2b,4.2
JMA III 13 14 44 14.8–.30 39.05N 142.37E 28–3 4.3,4.2
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=14.6km az=142.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.7km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.9km az=26.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 14 54 57.5–1.1 36.0N–.10 141.0E–.30 31 3.6b 7 3-60
IDC III 13 14 54 53.1–1.1 35.98N 140.96E 0 3.7,3.6 **¶17194899**
ISCJB III 13 14 54 55.6–.91 36.0N–.10 141.1E–.30 31 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 15 10 52.4–.35 35.52N–.04 140.93E–.04 36–1 5.1b,4.7s 555 0-153
NIED III 13 15 10 00 35.60N 141.10E 32 5.1W,4.7s **¶16310952**
BJI III 13 15 10 46.8 35.47N 141.27E 35 5.5b,5.1b
ISCJB III 13 15 10 51.4–.40 35.50N–.03 140.84E–.03 39–3 5.0b,4.7s
JMA III 13 15 10 51.0–.20 35.56N 141.08E 36–1 5.1,4.7s
GCMT III 13 15 10 52.5–.20 35.61N 141.06E 36–0 5.2W,4.7s
NEIC III 13 15 10 52.5–.13 35.47N 140.83E 35 5.0b,4.7s
IDC III 13 15 10 52.2–3.2 35.50N 140.85E 31–23 5.0,4.9
MOS III 13 15 10 53.5–.86 35.83N 140.84E 44 5.5b,4.5s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ11.00000°,λ35.00000°. NP2:ϕ_s9.00000°,δ84.00000°,λ99.00000°. M_o4.98000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=152.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c93; s75,c129; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.03 $M_{\theta\theta}$-0.18±.02; $M_{\phi\phi}$-0.56±.02; $M_{r\theta}$0.03±.02; $M_{\theta\phi}$-0.07±.01; $M_{\phi r}$0.55±.02; Best double couple: NP1:ϕ_s6.00000°,δ65.00000°,λ87.00000°. NP2:ϕ_s192.00000°,δ25.00000°,λ96.00000°. Principal axes: T 0.9410,Plg70.0000°,Azm271.0000°; N -0.1690,Plg2.0000°,Azm7.0000°; P -0.7710,Plg20.0000°,Azm98.0000° M_o0.85600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=153.0. Felt at Ina, Narita and Yokosuka. Recorded [3 JMA] in Chiba.
IDC Error ellipse: s-maj=12.7km s-min=9.9km az=105.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=111.4.
JMA III 13 15 15 30.4–.20 35.85N 140.89E 6–2 3.8
¶602657327

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 15 16 53.3–.20 36.03N 141.08E 20–2 3.6
¶602657326

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 15 25 50.6–2.2 39.56N–.05 142.70E–.07 1–13 4.0b 39 1-88
IDC III 13 15 25 50.1–.74 39.51N 142.57E 0 4.1,3.9 **¶602657322**
JMA III 13 15 25 52.8–.20 39.51N 142.64E 10–2 4.1,3.9
NEIC III 13 15 25 55.5–.56 39.57N 142.59E 35 4.1b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=22.8km s-min=17.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=11.6km az=94.0.
JMA III 13 15 26 47.8–.10 37.37N 141.29E 29–1 3.7
¶602657320

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 15 27 20.4–.47 39.49N–.04 142.70E–.03 32–3 5.0b,4.5s 910 1-147
NIED III 13 15 27 00 39.50N 142.70E 23 4.9W,4.5s **¶16310953**
MOS III 13 15 27 17.7–.95 39.53N 142.65E 21 5.2b,4.0s
JMA III 13 15 27 18.3–.30 39.52N 142.66E 6–3 5.0,4.0s
BJI III 13 15 27 19.1 39.44N 142.61E 28 5.2b,4.7s
IDC III 13 15 27 20.4–.44 39.43N 142.69E 31–3 4.7,4.6
ISCJB III 13 15 27 20.5–.41 39.49N–.02 142.66E–.02 40–3 4.9b,4.4s
NEIC III 13 15 27 21.2–.39 39.45N 142.59E 37–3 5.1b,4.4s
GCMT III 13 15 27 21.2–.40 39.53N 142.84E 30–1 5.0W,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ49.00000°,λ-144.00000°. NP2:ϕ_s116.00000°,δ63.00000°,λ-47.00000°. M_o2.67000×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=93.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.4km s-min=9.6km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=160.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=149.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c28; s73,c98; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.71±.26 $M_{\theta\theta}$3.32±.16; $M_{\phi\phi}$-1.61±.16; $M_{r\theta}$-1.26±.21; $M_{\theta\phi}$1.24±.11; $M_{\phi r}$2.57±.31; Best double couple: NP1:ϕ_s114.00000°,δ67.00000°,λ-41.00000°. NP2:ϕ_s222.00000°,δ53.00000°,λ-151.00000°. Principal axes: T 3.7130,Plg9.0000°,Azm171.0000°; N 0.9100,Plg44.0000°,Azm270.0000°; P -4.6240,Plg44.0000°,Azm72.0000° M_o4.16900×10^{16}
ISC III 13 15 45 08.9–2.1 39.12N–.05 142.46E–.07 0–12 4.2b 40 1-88
IDC III 13 15 45 08.9–.71 39.10N 142.41E 0 4.3,4.1 **¶16409269**
JMA III 13 15 45 12.6–.20 39.21N 142.41E 21–3 4.5,4.1
NEIC III 13 15 45 13.7–3.0 39.12N 142.56E 33–22 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=16.8km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.0km az=114.0.
JMA III 13 15 47 28.9–.40 36.72N 141.87E 30 3.5
¶602657309

JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
JMA III 13 16 02 11.2–.10 37.25N 141.16E 10–1 3.5
¶602657973

ISC III 13 16 03 15.1–1.8 36.6N–.20 141.79E–.09 19 3.5b 10 1-50
IDC III 13 16 03 09.6–2.0 36.21N 141.90E 0 3.7,3.7 **¶602657968**
JMA III 13 16 03 19.8–.30 37.03N 141.68E 20–3 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=41.0km s-min=29.2km az=129.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 16 04 40.6–.42 35.57N–.04 140.78E–.07 21–1 4.3b 65 0-148
NIED III 13 16 04 00 35.70N 140.80E 38 4.5W **¶600544089**
ISCJB III 13 16 04 41.0–.50 35.60N–.04 140.84E–.07 37–4 4.2b
JMA III 13 16 04 42.2–.20 35.74N 140.83E 29–1 4.1
NEIC III 13 16 04 43.2–.72 35.60N 140.73E 38–7 4.6b
IDC III 13 16 04 43.0–3.4 35.62N 140.72E 36–28 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ58.00000°,λ-177.00000°. NP2:ϕ_s174.00000°,δ87.00000°,λ-32.00000°. M_o5.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.7km az=177.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.2km az=77.0.
IDC Error ellipse: s-maj=16.0km s-min=10.6km az=90.0.
JMA III 13 16 10 02.8–.10 37.13N 141.42E 21–1 3.5
¶602657949

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 16 10 29.9–.61 36.20N–.05 141.89E–.07 23 3.8b 37 1-147
IDC III 13 16 10 26.5–.65 36.19N 141.93E 0 4.0,3.9 **¶600544106**
ISCJB III 13 16 10 27.9–.44 36.17N–.04 141.98E–.05 23 3.7b,3.9
JMA III 13 16 10 30.3–.20 36.28N 141.85E 57 4.1,3.9
NEIC III 13 16 10 31.8–1.2 36.13N 141.94E 38–11 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=14.7km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.3km az=2.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=67.0.
JMA III 13 16 11 32.5–.10 36.77N 141.17E 38–2 4.0
¶602657946

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 16 20 40.3–1.8 40.12N–.07 142.2E–.10 52–14 3.7b 21 1-72
ISCJB III 13 16 20 39.7–1.2 40.10N–.06 142.2E–.10 59–8 3.6b **¶17194919**
JMA III 13 16 20 40.4–.10 40.11N 142.22E 38–1 3.7
IDC III 13 16 20 47.2–4.8 40.11N 142.06E 117–42 3.7,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=10.0km az=5.9.
JMA Event type fe.
IDC Error ellipse: s-maj=27.7km s-min=25.4km az=103.0.
ISC III 13 16 41 36.6–.61 38.84N–.05 142.70E–.06 27 3.8b 34 1-88
IDC III 13 16 41 32.7–.70 38.85N 142.77E 0 4.0,3.9 **¶16409274**
JMA III 13 16 41 34.5–.20 38.97N 142.71E 0 4.0,3.9
ISCJB III 13 16 41 35.1–.47 38.89N–.05 142.87E–.05 27 3.8b,3.9
NEIC III 13 16 41 36.9–3.5 38.86N 142.70E 27–25 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=15.7km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=6.4.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.9km az=133.0.
JMA III 13 16 43 03.5–.10 36.98N 141.49E 31–2 3.5
¶602657844

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 16 44 58.8–.58 39.15N–.06 142.63E–.05 27 4.3b 77 1-88
IDC III 13 16 44 54.7–.67 39.09N 142.59E 0 4.3,4.1 **¶602657831**
ISCJB III 13 16 44 57.0–.40 39.19N–.04 142.79E–.04 27 4.2b,4.1
MOS III 13 16 44 57.7–1.1 39.15N 142.78E 35 4.7b,4.1
JMA III 13 16 44 58.8–.20 39.21N 142.58E 16–3 4.2,4.1
NEIC III 13 16 44 59.0–2.8 39.10N 142.57E 28–18 4.7b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=16.7km s-min=15.1km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=147.3.
MOS Error ellipse: s-maj=11.0km s-min=6.6km az=100.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.1km az=160.0.
ISC III 13 16 47 00.6–.63 38.03N–.07 142.73E–.08 14 4.0b 29 2-89
ISCJB III 13 16 46 58.8–.46 38.01N–.05 142.81E–.06 14 3.9b **¶16409275**
IDC III 13 16 46 58.4–.64 38.04N 142.66E 0 4.1,4.1L
JMA III 13 16 47 03.4–.30 38.11N 142.63E 41 4.7,4.1L
NEIC III 13 16 47 03.2–3.3 38.03N 142.66E 31–24 4.2b,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.9km az=42.9.
IDC Error ellipse: s-maj=21.6km s-min=14.8km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.7km az=98.0.
ISC III 13 16 47 55.4–.64 35.26N–.04 140.55E–.06 35 4.1b 27 0-148
NIED III 13 16 47 00 35.30N 140.60E 17 4.2W **¶16409276**
IDC III 13 16 47 51.1–.70 35.29N 140.04E 0 4.1,3.9
ISCJB III 13 16 47 54.3–.42 35.22N–.03 140.58E–.07 35 4.1b,3.9
NEIC III 13 16 47 54.7–5.1 35.26N 140.05E 25–37 4.6b,3.9
JMA III 13 16 47 55.3–.10 35.28N 140.61E 19–3 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ13.00000°,λ-147.00000°. NP2:ϕ_s257.00000°,δ83.00000°,λ-79.00000°. M_o2.51000×10^{15}
IDC Error ellipse: s-maj=29.1km s-min=16.9km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.6km az=1.7.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=12.7km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 16 49 38.8–.20 35.76N 141.05E 25–1 2.6
¶603049724

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 13 16 50 39.7–.92 35.69N–.05 140.97E–.07 28–6 3.8b 31 0-79
NIED III 13 16 50 00 35.80N 141.10E 38 4.1W **¶16461597**
ISCJB III 13 16 50 40.0–2.2 35.76N–.04 141.01E–.06 33–16 3.8b
JMA III 13 16 50 39.1–.20 35.79N 141.05E 26–1 4.2
IDC III 13 16 50 41.1–2.7 35.65N 140.98E 40–25 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ15.00000°,λ96.00000°. NP2:ϕ_s61.00000°,δ75.00000°,λ88.00000°. M_o1.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=7.5km az=2.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.5km s-min=13.9km az=90.0.
ISC III 13 16 59 47.5–.83 35.70N–.05 140.77E–.07 28–6 3.7b 22 0-75
NIED III 13 16 59 00 35.80N 140.80E 32 4.2W **¶17194925**
ISCJB III 13 16 59 46.2–.74 35.72N–.06 140.96E–.09 35–6 3.6b
JMA III 13 16 59 46.6–.10 35.75N 140.85E 31–1 3.7
IDC III 13 16 59 49.5–3.0 35.58N 140.71E 53–29 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ61.00000°,λ-30.00000°. NP2:ϕ_s262.00000°,δ64.00000°,λ-148.00000°. M_o1.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=8.8km az=155.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=14.8km az=89.0.
ISC III 13 17 01 30.6–.55 35.18N–.03 141.22E–.03 20–2 5.1b,5.0s 913 1-152
NIED III 13 17 01 00 35.30N 141.30E 23 5.2W,5.0s **¶16310960**
IDC III 13 17 01 27.9–.44 35.17N 141.19E 0 5.0,4.9
BJI III 13 17 01 28.4 35.21N 141.24E 23 5.2s,5.0
JMA III 13 17 01 30.9–.20 35.26N 141.30E 23–3 5.1,5.0
NEIC III 13 17 01 30.2–2.7 35.13N 141.15E 17–16 5.1b,5.0
ISCJB III 13 17 01 30.6–.64 35.17N–.02 141.16E–.02 26–4 5.0b,5.0s
MOS III 13 17 01 33.0–1.1 35.17N 141.21E 47 5.2b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ3.00000°,λ77.00000°. NP2:ϕ_s49.00000°,δ87.00000°,λ91.00000°. M_o6.37000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=10.3km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=141.0. Recorded [2 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=159.3.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=112.1.
JMA III 13 17 03 23.6–.20 38.78N 142.01E 44–3 3.7
¶602707308

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 13 17 05 00.1–.10 37.19N 141.34E 18–1 4.4
¶16477250

JMA III 13 17 07 16.0–.10 37.23N 141.24E 32–1 3.6
¶602657805

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 17 14 36.4–.55 35.20N–.05 141.08E–.07 48 3.8b 41 1-91
IDC III 13 17 14 30.2–.61 35.23N 141.13E 0 4.2L,4.0 **¶602657801**
JMA III 13 17 14 34.1–.20 35.29N 141.21E 15–4 3.3,4.0
NEIC III 13 17 14 34.9–.33 35.16N 141.10E 35 4.1b,4.0
ISCJB III 13 17 14 34.6–.42 35.23N–.04 141.18E–.06 48 3.7b,4.0
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
JMA III 13 17 16 14.4–.10 38.70N 141.71E 49–2 3.8
¶602657799

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 17 26 55.8 36.76N 140.60E 13–2 3.0
¶603049726

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 17 29 09.8–.77 35.61N–.03 140.87E–.05 29–5 4.7b 229 0-149
NIED III 13 17 29 00 35.80N 140.90E 38 4.8W **¶16310962**
ISCJB III 13 17 29 09.7–.42 35.61N–.03 140.85E–.04 39–3 4.7b,4.0s
MOS III 13 17 29 09.5–1.5 35.78N 140.91E 36 5.0b,4.0s
JMA III 13 17 29 10.2–.20 35.76N 140.85E 32–1 4.8,4.0s
NEIC III 13 17 29 10.9–.19 35.60N 140.76E 35 4.8b,4.0s
IDC III 13 17 29 11.2–3.9 35.63N 140.77E 33–30 4.5,4.4

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ63.00000°,λ-171.00000°. NP2:ϕ_s176.00000°,δ82.00000°,λ-28.00000°. $M_0$1.58000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=5.7.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=98.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s256.00000°,δ58.00000°,λ125.00000°. NP2: ϕ_s23.00000°,δ47.00000°,λ48.00000°. Principal axes: T Plg60.0000°,Azm221.0000° ; N Plg29.0000°,Azm55.0000°; P Plg6.0000°,Azm322.0000°
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.3km az=119.0. Recorded [3 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=12.9km s-min=8.8km az=92.0.

JMA	**III**	**13 17 35 27.8–.10**	**36.23N**	**140.47E**	**52–1**	**3.5**			
									¶602657294

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 17 40 01.4–.48**	**36.34N–.05**	**141.91E–.06**	**19**	**4.5b**	**89**	**1-147**	
IDC	III	13 17 39 58.5–.52	36.36N	141.88E	0	4.4,4.3			**¶602657284**
ISCJB	III	13 17 39 59.2–.30	36.30N–.03	142.05E–.04	19	4.4b,4.3			
JMA	III	13 17 39 59.9–.20	36.36N	142.03E	21	4.3,4.3			
NEIC	III	13 17 40 04.4–.64	36.29N	141.93E	43–5	4.8b,4.3			

ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=11.7km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=14.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.1km az=107.0.

JMA	**III**	**13 17 45 16.7–.10**	**36.69N**	**141.09E**	**44–2**	**3.5**			
									¶602657280

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**13 17 50 05.5–.83**	**36.00N–.04**	**141.83E–.05**	**28–5**	**4.7b**	**250**	**1-154**	
NIED	III	13 17 50 00	36.10N	141.80E	17	4.4W			**¶17194929**
IDC	III	13 17 50 01.5–.44	35.96N	141.73E	0	4.9L,4.6			
MOS	III	13 17 50 03.1–1.1	36.04N	141.80E	22	4.9b,4.6			
JMA	III	13 17 50 05.1–.20	36.08N	141.79E	39	4.4,4.6			
ISCJB	III	13 17 50 05.9–.62	35.98N–.03	141.72E–.04	41–5	4.6b,4.5s			
NEIC	III	13 17 50 07.5–.90	35.99N	141.66E	41–8	4.7b,4.5s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ39.00000°,λ-68.00000°. NP2:ϕ_s6.00000°,δ54.00000°,λ-107.00000°. $M_0$5.23000×10^{15}
IDC Error ellipse: s-maj=12.1km s-min=11.1km az=109.0.
MOS Error ellipse: s-maj=8.4km s-min=5.2km az=106.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.9km az=32.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=149.0.

ISC	**III**	**13 17 55 23.9–.43**	**35.19N–.02**	**141.11E–.03**	**23–2**	**5.5b,5.4s**	**1502**	**1-159**	
NIED	III	13 17 55 00	35.20N	141.20E	23	5.6W,5.4s			**¶602443467**
ISCJB	III	13 17 55 19.8–.71	35.14N–.02	141.04E–.02	3–4	5.5b,5.5s			
IDC	III	13 17 55 20.7–.30	35.18N	141.15E	0	5.4s,5.4			
GCMT	III	13 17 55 21.6–.10	35.28N	141.30E	15	5.7W,5.4			
NEIC	III	13 17 55 21.6–2.6	35.15N	141.10E	10–16	5.6W,5.5b			
BJI	III	13 17 55 22.0	35.20N	141.00E	24	5.6,5.6s			
JMA	III	13 17 55 24.5–.20	35.25N	141.23E	16–4	5.7,5.6s			
MOS	III	13 17 55 24.5–1.1	35.16N	141.14E	37	5.7b,5.5s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ22.00000°,λ5.00000°. NP2:ϕ_s48.00000°,δ88.00000°,λ112.00000°. $M_0$2.57000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=160.4.
IDC Error ellipse: s-maj=10.5km s-min=7.3km az=85.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c144; s101,c206; Duration: 1$\hat{e}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.02 $M_{\theta\theta}$-0.11±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$2.78±.07; $M_{\theta\phi}$-0.80±.01; $M_{\phi r}$2.14±.07; Best double couple: NP1:ϕ_s53.00000°,δ83.00000° ,λ97.00000°. NP2:ϕ_s188.00000°,δ10.00000°,λ46.00000°. Principal axes: T 3.4420,Plg51.0000°,Azm330.0000°; N 0.3840,Plg7.0000°,Azm232.0000° ; P -3.8270,Plg38.0000°,Azm137.0000° $M_0$3.63500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=132.0. Felt at Kawasaki, Tokyo, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Kanagawa, Saitama and Tokyo. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}1.21 $M_{\theta\theta}$-0.92 $M_{\phi\phi}$-0.29 $M_{r\theta}$2.40 $M_{\theta\phi}$0.23 $M_{\phi r}$1.48 Best double couple: NP1:ϕ_s284.00000° ,δ12.00000°,λ131.00000°. NP2:ϕ_s62.00000°,δ81.00000°,λ82.00000°. Principal axes: T 3.3000,Plg53.0000°,Azm323.0000°; N -0.6300,Plg8.0000°,Azm63.0000° ; P -2.6600,Plg36.0000°,Azm159.0000° $M_0$3.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=113.3.

JMA	**III**	**13 17 55 23.9–.20**	**35.94N**	**140.84E**	**38–2**	**2.7**			
									¶602657274

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**13 18 00 25.1–.20**	**38.71N**	**142.07E**	**34–3**	**3.6**			
									¶602657273

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**13 18 03 20.4–.44**	**36.26N–.04**	**141.20E–.06**	**31**	**4.5b**	**96**	**1-152**	
IDC	III	13 18 03 15.9–.56	36.24N	141.23E	0	4.5,4.4			**¶16461545**
JMA	III	13 18 03 19.1–.10	36.24N	141.20E	31–3	4.6,4.4			
ISCJB	III	13 18 03 19.3–.27	36.24N–.03	141.18E–.04	31	4.4b,4.4			
NEIC	III	13 18 03 21.2–.29	36.20N	141.15E	35	4.6b,4.4			

ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=14.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.2km az=18.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.1km az=175.0.

JMA	**III**	**13 18 18 57.1–.30**	**39.20N**	**142.96E**	**7**	**3.7**			
									¶602657245

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**13 18 27 13.2–.86**	**35.53N–.06**	**141.08E–.09**	**33**	**3.5b**	**21**	**0-70**	
IDC	III	13 18 27 08.6–.93	35.55N	140.93E	0	3.7,3.7			**¶17194938**
ISCJB	III	13 18 27 11.3–.69	35.53N–.05	141.21E–.08	33	3.5b,3.7			
JMA	III	13 18 27 13.1–.10	35.56N	141.03E	36–1	3.2,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=32.2km s-min=15.6km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.5km az=7.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 18 28 37.9–.72**	**36.32N–.05**	**141.65E–.08**	**26**	**3.6b**	**19**	**1-77**	
IDC	III	13 18 28 34.2–.90	36.35N	141.52E	0	4.4,4.4s			**¶17194939**
ISCJB	III	13 18 28 36.3–.63	36.35N–.05	141.75E–.07	26	4.4s,3.6b			
JMA	III	13 18 28 38.6–.20	36.36N	141.60E	54–4	3.6,3.6b			

ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=21.1km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=7.0km az=44.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**13 18 38 48.1–1.1**	**37.1N–.10**	**141.52E–.10**	**33**	**3.6b**	**12**	**1-57**	
IDC	III	13 18 38 43.4–1.4	37.14N	141.56E	0	3.7,3.7			**¶17194949**
ISCJB	III	13 18 38 45.9–.87	37.09N–.10	141.64E–.09	33	3.6b,3.7			
JMA	III	13 18 38 46.3–.10	37.28N	141.63E	18–2	3.8,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=24.1km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=9.7km az=18.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 18 40 16.3–1.4**	**36.40N–.04**	**141.03E–.07**	**24–10**	**3.7b**	**22**	**1-60**	
IDC	III	13 18 40 11.1–4.1	36.57N	141.51E	0	3.8,3.8			**¶16477587**
JMA	III	13 18 40 16.8–.10	36.37N	140.99E	41–1	3.6,3.8			
ISCJB	III	13 18 40 16.4–.88	36.37N–.04	141.03E–.08	41–8	3.7b,3.8			

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

ISC	**III**	**13 18 43 37.4–1.7**	**36.93N–.07**	**141.3E–.10**	**48–13**	**3.4b**	**20**	**0-61**	
IDC	III	13 18 43 29.6–.99	37.16N	141.87E	0	3.9L,3.7			**¶16477589**
ISCJB	III	13 18 43 37.0–1.3	36.91N–.07	141.3E–.10	59–8	3.5b,3.7			
JMA	III	13 18 43 38.8–.10	36.86N	141.19E	43–1	3.9,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=18.0km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=11.6km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**13 18 44 09.3–.59**	**36.44N–.08**	**141.85E–.09**	**19**	**4.0b**	**57**	**3-147**	
IDC	III	13 18 44 06.1–.63	36.41N	141.80E	0	4.0,3.9			**¶17194952**
ISCJB	III	13 18 44 07.3–.39	36.43N–.05	141.76E–.07	19	4.1b,3.9			
NEIC	III	13 18 44 11.4–.28	36.46N	141.78E	35	4.6b,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=15.3km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.6km az=32.1.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=134.0.

ISC	**III**	**13 18 45 13.9–.72**	**38.30N–.04**	**142.26E–.05**	**23–4**	**4.7b**	**151**	**1-89**	
NIED	III	13 18 45 00	38.40N	142.40E	14	4.5W			**¶16461604**
ISCJB	III	13 18 45 10.1–1.4	38.29N–.02	142.37E–.04	12–8	4.6b			
MOS	III	13 18 45 12.4–.82	38.19N	142.19E	27	5.0b			
JMA	III	13 18 45 12.8–.20	38.37N	142.35E	29	4.8			
IDC	III	13 18 45 14.0–.65	38.27N	142.22E	22–3	4.4,4.4			
NEIC	III	13 18 45 15.4–.25	38.23N	142.21E	35	4.8b,4.4			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ36.00000°,λ-140.00000°. NP2:ϕ_s346.00000°,δ68.00000°,λ-61.00000°. $M_0$5.78000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=5.6.
MOS Error ellipse: s-maj=12.5km s-min=7.8km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=11.5km az=85.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=117.0.

ISC	**III**	**13 18 49 33.5–.33**	**35.20N–.04**	**141.10E–.05**	**48**	**4.8b,4.6s**	**333**	**1-155**	
NIED	III	13 18 49 00	35.20N	141.20E	17	4.9W,4.6s			**¶16311603**
IDC	III	13 18 49 27.0–.42	35.18N	141.16E	0	4.7,4.6b			
MOS	III	13 18 49 28.8–1.0	35.21N	141.05E	22	4.9b,4.6s			
JMA	III	13 18 49 30.7–.20	35.24N	141.23E	18–4	4.7,4.6s			
NEIC	III	13 18 49 32.7–.67	35.19N	141.05E	36–6	4.8b,4.6s			
ISCJB	III	13 18 49 32.5–.15	35.19N–.03	141.01E–.03	48	4.7b,4.6s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ14.00000°,λ-168.00000°. NP2:ϕ_s214.00000°,δ87.00000°,λ-76.00000°. $M_0$2.73000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [1 JMA] in Chiba.
ISCJB Event type fe.

JMA	**III**	**13 18 52 42.4–.30**	**38.42N**	**142.17E**	**13–4**	**4.3**			
									¶602657212

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**III**	**13 18 55 59.8–.41**	**36.05N–.05**	**141.84E–.05**	**23**	**4.7b**	**174**	**1-147**	
NIED	III	13 18 55 00	36.10N	142.00E	14	4.5W			**¶16461548**
IDC	III	13 18 55 56.7–.54	36.10N	141.84E	0	4.5,4.5b			
ISCJB	III	13 18 55 58.3–.27	36.06N–.03	141.84E–.04	23	5.5s,4.5b			
JMA	III	13 18 55 58.3–.30	36.08N	142.00E	51	4.4,4.5b			
MOS	III	13 18 55 58.9–1.1	36.17N	141.88E	26	4.8b,4.5b			
NEIC	III	13 18 56 00.3–2.1	36.03N	141.80E	25–14	4.8b,4.5b			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ20.00000°,λ45.00000°. NP2:ϕ_s45.00000°,δ76.00000°,λ104.00000°. $M_0$7.23000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=12.8km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=39.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=5.3km az=112.1.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=6.0km az=57.0.

ISC	**III**	**13 19 03 56.7–.79**	**36.94N–.09**	**141.88E–.08**	**19**	**3.6b**	**17**	**1-90**	
IDC	III	13 19 03 53.4–.81	36.89N	142.04E	0	3.9,3.8L			**¶600544381**
ISCJB	III	13 19 03 54.7–.64	36.93N–.08	142.04E–.08	19	3.6b,3.8L			
JMA	III	13 19 03 57.1–.20	37.01N	141.87E	16–1	4.0,3.8L			

ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=17.4km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.1km az=6.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**13 19 09 42.7–.10**	**37.70N**	**141.68E**	**16–2**	**3.8**			
									¶602657189

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**13 19 13 24.1–.10**	**36.15N**	**141.01E**	**33–2**	**3.5**			
									¶602657183

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 19 16 37.5–1.1**	**35.94N–.03**	**140.96E–.04**	**8–6**	**4.9b,4.0s**	**346**	**0-155**	
NIED	III	13 19 16 00	35.90N	141.00E	8	4.7W,4.0s			**¶602443471**
IDC	III	13 19 16 36.4–.44	35.87N	140.95E	0	4.7,4.7			
JMA	III	13 19 16 38.3–.20	35.88N	141.03E	13–2	4.9,4.7			
ISCJB	III	13 19 16 38.5–.53	35.90N–.03	140.93E–.03	21–4	4.8b,4.0s			
MOS	III	13 19 16 40.9–.84	36.23N	140.89E	27	5.1b,4.0s			
NEIC	III	13 19 16 41.8–.17	35.86N	140.84E	35	4.9b,4.0s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ52.00000°,λ-40.00000°. NP2:ϕ_s172.00000°,δ60.00000°,λ-134.00000°. $M_0$1.39000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=11.8km az=36.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=12.4.
MOS Error ellipse: s-maj=7.6km s-min=4.6km az=103.6.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=164.0. Recorded [3 JMA] in Chiba and Ibaraki.

JMA	**III**	**13 19 20 04.4–.70**	**38.91N**	**142.75E**	**0**	**4.2**			
									¶602657182

JMA Error ellipse: s-maj=6.7km s-min=3.5km az=-1.0.

IDC	**III**	**13 19 20 28.8–.84**	**36.00N**	**141.79E**	**33–5**	**3.9,3.9**			
									¶16477600

IDC Error ellipse: s-maj=20.5km s-min=18.9km az=56.0.

ISC	**III**	**13 19 20 35.7–1.3**	**38.38N–.07**	**142.6E–.10**	**24**	**4.2b**	**11**	**1-70**	
ISCJB	III	13 19 20 33.7–1.0	38.32N–.06	142.68E–.09	24	4.0b			**¶602657178**
JMA	III	13 19 20 34.8–.50	38.33N	142.67E	39	4.4			
IDC	III	13 19 20 35.0–5.4	37.94N	142.35E	0	4.3,4.2			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.2km az=159.6.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=126.0km s-min=41.9km az=40.0.

JMA	**III**	**13 19 21 15.6–.30**	**35.99N**	**141.11E**	**25–4**	**3.2**			
									¶603049727

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

JMA	**III**	**13 19 22 35.4–.40**	**36.25N**	**141.58E**	**23**	**3.5**			
									¶602657175

JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

JMA	**III**	**13 19 26 54.5–.10**	**36.65N**	**140.94E**	**47–2**	**3.7**			
									¶602657170

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 19 27 22.0–1.1**	**37.18N–.07**	**141.2E–.10**	**35**	**3.9b**	**17**	**0-74**	
NIED	III	13 19 27 00	37.20N	141.10E	11	4.0W			**¶602446703**
IDC	III	13 19 27 14.3–1.4	37.35N	142.54E	0	4.1,4.1			
ISCJB	III	13 19 27 20.2–.88	37.17N–.06	141.23E–.08	35	3.8b,4.1			
JMA	III	13 19 27 22.2–.10	37.19N	141.08E	28–1	4.1,4.1			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ10.00000°,λ30.00000°. NP2:ϕ_s16.00000°,δ85.00000°,λ98.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=46.2km s-min=18.0km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.7km az=137.5.
JMA Event type fe.

JMA	**III**	**13 19 35 49.5–.20**	**35.88N**	**141.02E**	**10–2**	**3.9**			
									¶603049728

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**13 19 41 25.9–.54**	**35.71N–.05**	**140.99E–.06**	**33**	**3.9b**	**38**	**0-148**	
NIED	III	13 19 41 00	35.80N	141.10E	32	4.3W			**¶16477605**
IDC	III	13 19 41 20.9–.72	35.62N	141.08E	0	4.1,3.9			
ISCJB	III	13 19 41 24.8–.45	35.81N–.04	141.19E–.05	33	3.9b,3.9			
NEIC	III	13 19 41 25.7–.50	35.63N	140.91E	35	4.0b,3.9			
JMA	III	13 19 41 26.2–.20	35.78N	141.09E	33–1	3.6,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ48.00000°,λ-35.00000°. NP2:ϕ_s257.00000°,δ65.00000°,λ-132.00000°. $M_0$2.91000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=18.3km az=95.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=6.0km az=31.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.9km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**13 19 42 54.7–1.9**	**37.32N–.06**	**141.1E–.10**	**26–10**	**3.8b**	**16**	**0-57**
IDC	III	13 19 42 48.5–3.8	37.48N	141.71E	0	3.9,3.9		**¶17194966**
ISCJB	III	13 19 42 53.1–1.4	37.29N–.07	141.25E–.10	28–7	3.8b,3.9		
JMA	III	13 19 42 55.7	37.32N	141.07E	25–1	3.7,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=115.6km s-min=23.4km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=10.1km az=149.6.
JMA Event type fe.

ISC	**III**	**13 19 45 24.3–.68**	**36.44N–.09**	**141.60E–.08**	**26**	**3.8b**	**18**	**3-90**
IDC	III	13 19 45 20.4–.69	36.46N	141.77E	0	4.0,3.9		**¶16461610**

ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=16.6km az=90.0.

JMA	**III**	**13 19 52 25.8–.10**	**35.97N**	**140.64E**	**36–1**	**3.6**		
								¶603049729

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 19 59 49.0–.39**	**36.95N–.03**	**141.99E–.03**	**20–2**	**5.1b,5.0s**	**595**	**1-151**
NIED	III	13 19 59 00	37.00N	141.90E	29	5.1W,5.0s		**¶16311607**
BJI	III	13 19 59 47.2	37.00N	142.16E	31	5.1b,5.0s		
ISCJB	III	13 19 59 48.8–.65	36.92N–.02	141.97E–.02	25–4	5.0b,4.9s		
MOS	III	13 19 59 49.9–.99	37.32N	141.87E	22	5.3b,5.1s		
JMA	III	13 19 59 50.1–.30	36.97N	141.91E	36–3	5.3,5.1s		
GCMT	III	13 19 59 50.1–.20	37.01N	142.12E	36–1	5.2W,5.1s		
NEIC	III	13 19 59 50.1–1.7	36.92N	141.91E	25–12	5.1b,5.1s		
IDC	III	13 19 59 51.0–4.1	36.94N	141.93E	30–29	4.8,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ31.00000°,λ-5.00000°. NP2:ϕ_s261.00000°,δ87.00000°,λ-121.00000°. $M_0$5.84000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=154.2.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=102.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c77; s98,c179; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.76±.20 $M_{\theta\theta}$0.94±.13; $M_{\phi\phi}$-2.69±.16; $M_{r\theta}$5.85±.28; $M_{\theta\phi}$-3.52±.10; $M_{\phi r}$1.82±.16; Best double couple: NP1:ϕ_s69.00000°,δ82.00000°,λ121.00000°. NP2:ϕ_s172.00000°,δ32.00000°,λ15.00000°. Principal axes: T 7.3430,Plg44.0000°,Azm10.0000°; N 0.2210,Plg31.0000°,Azm244.0000°; P -7.5560,Plg30.0000°,Azm134.0000° $M_0$7.45000×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=134.0.
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=107.0.

ISC	**III**	**13 20 08 24.7–2.2**	**37.0N–.10**	**141.68E–.08**	**17–12**	**3.7b**	**20**	**1-83**
IDC	III	13 20 08 18.9–3.8	36.46N	141.83E	0	3.9,3.8		**¶602657133**
ISCJB	III	13 20 08 25.4–1.6	37.17N–.09	141.80E–.07	23–9	3.7b,3.8		
JMA	III	13 20 08 27.8–.20	37.18N	141.65E	34–2	3.8,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=85.7km s-min=31.6km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=9.3km az=164.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**13 20 13 45.7**	**36.71N**	**140.56E**	**10–3**	**3.1**		
								¶603145358
JMA	**III**	**13 20 14 49.9–.10**	**36.58N**	**140.84E**	**30–1**	**3.8**		
NIED	III	13 20 14 00	36.60N	140.80E	47	4.5W		**¶603049951**

JMA Felt [I] J1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ34.00000°,λ51.00000°. NP2:ϕ_s227.00000°,δ64.00000°,λ113.00000°. $M_0$7.48000×10^{15}

JMA	**III**	**13 20 16 10.6–.20**	**39.42N**	**142.70E**	**8–3**	**4.1**		
								¶602657129

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**13 20 20 11.5–.10**	**37.14N**	**141.05E**	**50–1**	**2.6**		
								¶602657124

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**13 20 22 24.4–.20**	**38.51N**	**142.30E**	**23–3**	**3.9**		
								¶602657123

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**13 20 23 34.9–1.9**	**35.88N–.04**	**141.19E–.06**	**15–12**	**3.7b**	**37**	**0-79**
NIED	III	13 20 23 00	36.00N	141.20E	5	4.1W		**¶16477620**
IDC	III	13 20 23 33.9–.79	35.99N	141.23E	0	4.1L,4.0		
JMA	III	13 20 23 37.2–.10	36.01N	141.18E	36–2	4.2,4.0		
NEIC	III	13 20 23 38.6–.47	35.95N	141.22E	35	4.0b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ12.00000°,λ-46.00000°. NP2:ϕ_s8.00000°,δ82.00000°,λ-98.00000°. $M_0$1.58000×10^{15}
IDC Error ellipse: s-maj=22.9km s-min=16.0km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.0km az=101.0.

ISC	**III**	**13 20 25 35.6–2.4**	**38.93N–.05**	**142.49E–.10**	**6–13**	**3.8b**	**16**	**1-63**
IDC	III	13 20 25 29.9–1.3	39.45N	144.08E	0	3.9,3.8		**¶17194977**
JMA	III	13 20 25 39.6–.10	38.98N	142.39E	25–1	4.0,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=25.4km az=83.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**13 20 30 26.5–.40**	**38.15N**	**142.31E**	**38**	**3.7**		
								¶602657117

JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.

ISC	**III**	**13 20 38 11.8–3.5**	**38.66N–.05**	**142.50E–.08**	**24–25**	**3.8b**	**25**	**1-88**
IDC	III	13 20 38 08.4–.93	38.57N	142.81E	0	3.9,3.7		**¶600544467**
JMA	III	13 20 38 14.1–.10	38.77N	142.36E	37–2	4.2,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=20.6km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 20 40 21.1–.67**	**37.21N–.06**	**141.95E–.06**	**19**	**3.9b**	**27**	**1-83**
IDC	III	13 20 40 17.9–.70	37.21N	142.00E	0	3.9,3.8		**¶17194981**
ISCJB	III	13 20 40 19.1–.52	37.17N–.05	142.07E–.05	19	3.7b,3.8		
JMA	III	13 20 40 22.4–.20	37.27N	141.88E	31–4	4.1,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=21.4km s-min=15.5km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.9km az=12.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

JMA	**III**	**13 20 48 38.4–.20**	**38.66N**	**141.88E**	**42–3**	**4.1**		
								¶602657084

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**13 20 54 34.0–.20**	**36.27N**	**141.90E**	**59**	**3.6**		
								¶602657077

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**13 20 56 40.2–.30**	**36.63N**	**141.79E**	**65**	**3.1**		
								¶602657072

JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

ISC	**III**	**13 20 57 39.3–2.0**	**35.94N–.06**	**141.52E–.07**	**23–14**	**4.0b**	**53**	**1-82**
NIED	III	13 20 57 00	36.00N	141.50E	29	4.0W		**¶600544499**
IDC	III	13 20 57 36.0–.65	35.93N	141.42E	0	4.2L,4.1		
JMA	III	13 20 57 39.6–.20	35.99N	141.45E	41–3	3.8,4.1		
ISCJB	III	13 20 57 39.2–1.0	35.90N–.04	141.53E–.07	35–8	3.9b,3.8s		
NEIC	III	13 20 57 41.0–.32	35.87N	141.50E	35	4.6b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ49.00000°,λ-125.00000°. NP2:ϕ_s295.00000°,δ52.00000°,λ-57.00000°. $M_0$1.23000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=13.9km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.7km az=176.7.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=7.4km az=182.0.

ISC	**III**	**13 21 01 58.9–.55**	**35.60N–.05**	**141.88E–.05**	**20–2**	**4.3b**	**90**	**1-147**
NIED	III	13 21 01 00	35.90N	141.80E	8	4.2W		**¶16461617**
ISCJB	III	13 21 01 57.4–1.4	35.61N–.03	141.88E–.05	20–9	4.3b,2.9s		
JMA	III	13 21 01 58.2–.20	35.85N	141.81E	15–3	4.2,2.9s		
IDC	III	13 21 01 59.9–.66	35.67N	141.83E	22–3	4.1,4.1		
NEIC	III	13 21 02 00.6–2.1	35.63N	141.83E	29–15	4.7b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s116.00000°,δ46.00000°,λ-72.00000°. NP2:ϕ_s271.00000°,δ47.00000°,λ-107.00000°. $M_0$2.47000×10^{15}

ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.7km az=10.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.0km s-min=11.8km az=119.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.3km az=85.0.

ISC	**III**	**13 21 17 24.4–.43**	**38.15N–.04**	**142.09E–.05**	**30**	**4.2b**	**93**	**1-150**
NEIC	III	13 21 17 22.9–1.7	38.17N	142.21E	22–6	4.7b		**¶16461554**
ISCJB	III	13 21 17 22.4–.29	38.16N–.03	142.25E–.04	30	4.2b		
JMA	III	13 21 17 23.7–.30	38.29N	142.09E	18	4.3		
IDC	III	13 21 17 25.3–.55	38.20N	142.06E	33–3	4.1,4.0		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=6.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=22.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=12.3km az=89.0.

ISC	**III**	**13 21 26 06.0–.76**	**36.80N–.05**	**141.18E–.07**	**34–2**	**3.6b**	**27**	**0-78**
NIED	III	13 21 26 00	36.80N	141.10E	50	3.9W		**¶17194987**
ISCJB	III	13 21 26 05.4–.90	36.76N–.04	141.20E–.09	46–8	3.5b		
JMA	III	13 21 26 06.2–.10	36.81N	141.13E	46–1	3.5		
IDC	III	13 21 26 07.5–.85	36.73N	141.15E	50–8	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ33.00000°,λ115.00000°. NP2:ϕ_s37.00000°,δ61.00000°,λ75.00000°. $M_0$8.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.0km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.5km s-min=11.4km az=112.0.

JMA	**III**	**13 21 28 21.5–.10**	**36.65N**	**141.08E**	**44–2**	**3.6**		
NIED	III	13 21 28 00	36.60N	141.10E	59	4.5W		**¶602657043**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ20.00000°,λ55.00000°. NP2:ϕ_s121.00000°,δ74.00000°,λ102.00000°. $M_0$5.32000×10^{15}

JMA	**III**	**13 21 28 22.4–.10**	**39.07N**	**142.38E**	**21–1**	**3.9**		
								¶603049731

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**13 21 44 38.1–1.2**	**35.85N–.07**	**140.78E–.08**	**9–8**	**3.6b**	**15**	**0-79**
IDC	III	13 21 44 36.8–1.0	35.75N	140.98E	0	3.8,3.6		**¶600544535**
JMA	III	13 21 44 37.8–.10	35.86N	140.93E	10–2	4.1,3.6		
ISCJB	III	13 21 44 37.9–.92	35.81N–.05	140.90E–.09	19–5	3.5b,3.6		

ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

ISC	**III**	**13 21 49 11.9–.77**	**35.83N–.06**	**141.9E–.10**	**23**	**3.8b**	**24**	**3-65**
IDC	III	13 21 49 09.1–.96	35.86N	141.81E	0	3.9,3.8		**¶16477258**
ISCJB	III	13 21 49 09.2–.63	35.78N–.04	142.0E–.10	23	3.8b,3.8		
NEIC	III	13 21 49 13.8–.64	35.81N	141.74E	35	4.3b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=17.5km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=5.6km az=172.3.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=11.1km az=66.0.

JMA	**III**	**13 21 51 32.4–.30**	**39.58N**	**142.67E**	**10–4**	**3.7**		
								¶602657031

JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**III**	**13 21 52 56.4–.52**	**38.99N–.06**	**142.36E–.06**	**27**	**4.2b**	**64**	**1-88**
NIED	III	13 21 52 00	39.00N	142.40E	29	4.3W		**¶600544541**
ISCJB	III	13 21 52 54.4–.34	38.93N–.04	142.45E–.05	27	4.2b,3.5s		
JMA	III	13 21 52 56.5–.10	39.04N	142.42E	29–2	4.5,3.5s		
NEIC	III	13 21 52 57.9–.69	39.00N	142.31E	38–6	4.6b,3.5s		
IDC	III	13 21 52 57.3–.59	38.96N	142.38E	33–4	4.2,4.1		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ15.00000°,λ-103.00000°. NP2:ϕ_s178.00000°,δ75.00000°,λ-87.00000°. $M_0$3.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=5.2km az=139.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=136.0.
IDC Error ellipse: s-maj=14.1km s-min=11.6km az=122.0.

ISC	**III**	**13 21 57 03.6–.59**	**35.92N–.07**	**141.40E–.08**	**26**	**4.0b**	**37**	**0-147**
NIED	III	13 21 57 00	36.00N	141.40E	17	3.9W		**¶16461622**
ISCJB	III	13 21 57 00.8–.48	35.90N–.05	141.63E–.07	26	4.0b		
NEIC	III	13 21 57 02.7–3.3	35.89N	141.43E	21–24	4.2b		
JMA	III	13 21 57 03.9–.20	35.99N	141.42E	38–3	3.8		
IDC	III	13 21 57 04.2–7.2	35.92N	141.39E	29–51	4.0,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ38.00000°,λ-57.00000°. NP2:ϕ_s71.00000°,δ59.00000°,λ-113.00000°. $M_0$8.10000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.3km az=22.1.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.8km az=51.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=16.3km az=83.0.

JMA	**III**	**13 22 06 42.3–.40**	**35.87N**	**140.95E**	**11–5**	**3.7**		
								¶602657026

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

JMA	**III**	**13 22 12 13.8–.10**	**36.19N**	**141.00E**	**32–1**	**2.7**		
								¶603049733

ISC	**III**	**13 22 12 48.4–.93**	**35.61N–.09**	**141.62E–.10**	**25**	**3.9b**	**9**	**3-91**
IDC	III	13 22 12 45.4–.86	35.53N	142.50E	0	4.1,4.1L		**¶16477646**

ISC Event type ke.
IDC Error ellipse: s-maj=41.9km s-min=18.5km az=98.0.

ISC	**III**	**13 22 12 57.2–.42**	**38.99N–.05**	**141.39E–.06**	**115–2**	**4.4b**	**105**	**0-146**
NIED	III	13 22 12 00	39.10N	141.30E	116	4.4W		**¶17194997**
NEIC	III	13 22 12 57.2–.35	38.97N	141.24E	112	4.7b		
ISCJB	III	13 22 12 57.1–.46	39.06N–.05	141.28E–.06	123–2	4.3b		
IDC	III	13 22 12 57.1–.40	38.91N	141.29E	112–2	4.3,4.1		
JMA	III	13 22 12 58.1–.10	39.06N	141.34E	115–1	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ24.00000°,λ-93.00000°. NP2:ϕ_s176.00000°,δ66.00000°,λ-88.00000°. $M_0$4.98000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=155.0. Recorded [2 JMA] in Aomori and Iwate.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=44.1.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s167.00000°,δ65.00000°,λ-64.00000°. NP2:ϕ_s298.00000°,δ35.00000°,λ-133.00000°. Principal axes: T Plg16.0000°,Azm238.0000°; N Plg23.0000°,Azm335.0000°; P Plg61.0000°,Azm116.0000°

ISC	**III**	**13 22 16 31.3–.42**	**36.27N–.03**	**140.85E–.04**	**23–2**	**4.5b**	**175**	**1-152**
NIED	III	13 22 16 00	36.30N	140.90E	23	4.3W		**¶602443478**
MOS	III	13 22 16 30.4–.95	36.35N	140.74E	26	5.0b		
JMA	III	13 22 16 31.2–.10	36.26N	140.91E	36–2	4.4		
ISCJB	III	13 22 16 31.4–.50	36.26N–.02	140.92E–.04	39–4	4.4b		
IDC	III	13 22 16 32.5–.46	36.25N	140.76E	30–2	4.4,4.3		
NEIC	III	13 22 16 33.1–.28	36.28N	140.77E	35	4.8b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ3.00000°,λ132.00000°. NP2:ϕ_s27.00000°,δ88.00000°,λ88.00000°. $M_0$3.54000×10^{15}
MOS Error ellipse: s-maj=12.5km s-min=6.2km az=111.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=8.8.
IDC Error ellipse: s-maj=11.8km s-min=11.1km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.7km az=134.0. Recorded [3 JMA] in Ibaraki and Tochigi.

ISC	**III**	**13 22 18 38.6–1.1**	**39.08N–.06**	**142.39E–.08**	**27**	**4.2b**	**17**	**1-63**
IDC	III	13 22 18 34.3–1.2	38.97N	142.29E	0	4.7s,4.7		**¶17194999**
ISCJB	III	13 22 18 36.9–.89	39.03N–.05	142.48E–.07	27	4.7s,4.2b		
JMA	III	13 22 18 38.7–.20	39.06N	142.35E	22–2	4.3,4.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=41.8km s-min=23.6km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.8km az=2.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**13 22 20 17.5–.42**	**36.00N–.03**	**141.89E–.03**	**20–3**	**5.2b,5.1s**	**696**	**1-154**
NIED	III	13 22 20 00	36.00N	142.00E	17	5.1W,5.1s		**¶16311611**
BJI	III	13 22 20 14.4	35.90N	141.90E	22	5.2b,5.2s		
IDC	III	13 22 20 14.0–.35	35.97N	141.88E	0	4.8,4.8		

ISCJB III 13 22 20 15.6–.77 35.99N–.02 141.85E–.02 15–4 5.1b,5.0s
JMA III 13 22 20 15.8–.20 36.02N 142.05E 64–4 5.4,5.0s
MOS III 13 22 20 17.5–.93 36.33N 141.84E 22 5.4b,5.2s
NEIC III 13 22 20 18.1–2.1 36.02N 141.79E 21–14 5.3b,5.2s
GCMT III 13 22 20 18.1–.20 36.02N 142.06E 16–0 5.2W,5.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ66.00000°,λ-175.00000°. NP2:ϕ_s194.00000°,δ86.00000°,λ-24.00000°. M_o4.58000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=154.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=107.6.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=133.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c91; s82,c155; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.38±.21 $M_{\theta\theta}$-2.34±.14; $M_{\phi\phi}$-2.04±.15; $M_{r\theta}$5.18±.52; $M_{\theta\phi}$-3.89±.10; $M_{\phi r}$2.50±.44; Best double couple: NP1:ϕ_s62.00000°,δ70.00000°,λ105.00000°. NP2:ϕ_s205.00000°,δ25.00000°,λ55.00000°. Principal axes:
T 7.2100,Plg62.0000°,Azm354.0000°; N 1.2570,Plg14.0000°,Azm237.0000°
; P -8.4670,Plg24.0000°,Azm140.0000° M_o7.83800×10^{16}
ISC III 13 22 26 07.4–.37 35.93N–.04 141.93E–.05 23 4.9b 224 1-150
NIED III 13 22 26 00 36.00N 142.10E 11 4.6W **¶16477260**
IDC III 13 22 26 04.3–.43 35.90N 141.84E 0 4.8,4.7
NEIC III 13 22 26 04.7–2.5 35.93N 141.86E 3–15 5.0b,4.7
JMA III 13 22 26 05.3–.30 36.03N 142.09E 24 5.0,4.7
ISCJB III 13 22 26 06.2–.23 35.94N–.03 141.93E–.04 23 5.6s,4.9b
MOS III 13 22 26 06.7–1.0 35.99N 141.94E 27 5.3b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ21.00000°,λ110.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ82.00000°. M_o9.67000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=10.8km az=107.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=125.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.7km az=141.1.
MOS Error ellipse: s-maj=9.5km s-min=5.2km az=113.9.
JMA III 13 22 34 56.4–.10 35.81N 140.87E 23–1 3.5
¶602657013
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 22 35 58.3–2.9 39.05N–.04 142.42E–.08 23–20 4.1b 43 1-80
IDC III 13 22 35 54.7–.75 39.01N 142.38E 0 4.2,4.0 **¶16477262**
JMA III 13 22 35 59.1–.10 39.11N 142.40E 30–1 4.4,4.0
NEIC III 13 22 35 59.9–.52 39.02N 142.40E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.7km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.6km az=130.0.
JMA III 13 22 48 22.9–.10 37.22N 141.19E 29–1 3.7
¶602657003
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 22 53 53.7–.20 38.58N 142.04E 29–3 4.0
¶602657000
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 13 22 55 53.6–.10 38.86N 142.33E 28–2 3.9
¶602656998
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 22 56 31.6–.97 36.86N–.05 141.04E–.08 51–8 4.1b 56 0-147
NIED III 13 22 56 00 36.90N 141.10E 53 4.2W **¶16477655**
JMA III 13 22 56 31.8–.10 36.91N 141.06E 50–1 4.3
ISCJB III 13 22 56 31.0–.59 36.86N–.04 141.03E–.07 62–4 4.2b
IDC III 13 22 56 32.1–2.5 36.90N 140.93E 52–25 4.1,4.0
NEIC III 13 22 56 32.9–1.2 36.91N 140.89E 60–10 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ4.00000°,λ100.00000°. NP2:ϕ_s24.00000°,δ86.00000°,λ89.00000°. M_o2.12000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.8km az=169.6.
IDC Error ellipse: s-maj=17.8km s-min=13.1km az=83.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=8.0km az=96.0.
ISC III 13 22 59 49.7–1.0 35.25N–.06 141.30E–.08 27 3.9b 15 1-79
ISCJB III 13 22 59 48.4–.88 35.27N–.07 141.36E–.08 27 3.9b **¶17195007**
JMA III 13 22 59 49.6–.20 35.24N 141.27E 18 3.4
IDC III 13 22 59 50.5–4.1 36.13N 141.39E 0 4.0,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.3km az=148.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=101.6km s-min=32.0km az=7.0.
ISC III 13 23 01 22.9–2.3 39.49N–.08 142.71E–.07 6–13 4.0b 22 1-88
IDC III 13 23 01 20.6–2.6 39.25N 142.55E 0 4.1,3.9 **¶17195008**
JMA III 13 23 01 22.2–.50 39.43N 142.72E 0 4.6,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=61.3km s-min=28.8km az=170.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 13 23 06 17.5–.65 39.90N–.07 142.44E–.06 31 4.4b 57 1-88
NIED III 13 23 06 00 40.00N 142.30E 41 4.3W **¶16449578**
ISCJB III 13 23 06 15.6–.47 39.88N–.07 142.52E–.06 31 4.2b
IDC III 13 23 06 18.0–3.2 39.69N 142.44E 44–29 4.1,4.0
JMA III 13 23 06 19.6–.10 39.97N 142.32E 37–2 4.1,4.0
NEIC III 13 23 06 20.0–.88 39.79N 142.43E 60–7 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ14.00000°,λ71.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ95.00000°. M_o3.46000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.0km az=160.0.
IDC Error ellipse: s-maj=17.3km s-min=14.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.3km az=127.0.
ISC III 13 23 15 43.3–1.7 38.9N–.20 142.8E–.20 35 4.0b 15 3-82
IDC III 13 23 15 37.4–4.4 38.75N 142.81E 0 3.9,3.8 **¶16449580**
ISCJB III 13 23 15 42.4–1.4 39.0N–.10 142.7E–.20 35 3.9b,3.8
NEIC III 13 23 15 44.7–2.4 38.99N 142.69E 42–17 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=99.9km s-min=27.8km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=26.1km s-min=14.9km az=136.4.
NEIC Event type se. Error ellipse: s-maj=27.5km s-min=13.7km az=138.0.
JMA III 13 23 20 37.5–.20 37.74N 141.87E 6–3 3.5
¶602656979
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 13 23 25 13.2–.10 39.97N 142.32E 36–1 4.0
¶16449582
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 23 30 32.4–.20 35.96N 141.20E 22–3 3.4
¶17195014
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 13 23 33 09.7–.60 36.78N–.06 140.56E–.05 10 4.0b 34 0-147
NIED III 13 23 33 00 36.80N 140.60E 5 3.8W **¶16449588**
ISCJB III 13 23 33 07.9–.49 36.72N–.04 140.65E–.05 10 3.9b,3.3s
IDC III 13 23 33 08.2–.67 36.80N 140.30E 0 4.1,3.9
JMA III 13 23 33 09.9–.20 36.79N 140.58E 1–2 4.0,3.9
NEIC III 13 23 33 15.7–1.8 36.81N 140.31E 56–16 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ34.00000°,λ-107.00000°. NP2:ϕ_s177.00000°,δ57.00000°,λ-79.00000°. M_o5.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.3km az=137.0.
IDC Error ellipse: s-maj=21.5km s-min=16.4km az=90.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=15.4km s-min=12.9km az=101.0. Recorded [2 JMA] in Fukushima.
ISC III 13 23 35 14.7–.58 36.04N–.07 141.91E–.08 23 4.1b 31 3-147
IDC III 13 23 35 11.2–.65 36.11N 141.75E 0 4.2,4.0 **¶16449589**
ISCJB III 13 23 35 12.7–.44 36.05N–.06 141.93E–.07 23 4.0b,4.0
NEIC III 13 23 35 17.3–1.6 36.13N 141.78E 42–13 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.3km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=137.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.2km az=137.0.
JMA III 13 23 37 51.7–.20 38.87N 142.30E 28–2 4.1
¶602656966
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 23 38 05.4–1.9 36.30N–.05 141.79E–.07 32–13 3.8b 44 1-90
IDC III 13 23 38 00.6–.66 36.33N 141.81E 0 4.0,4.0L **¶16449593**
ISCJB III 13 23 38 04.0–.89 36.28N–.04 141.83E–.06 37–8 3.8b,4.0L
JMA III 13 23 38 05.8–.30 36.38N 141.60E 69–4 3.7,4.0L
NEIC III 13 23 38 06.0–.66 36.29N 141.83E 36–6 4.0b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=15.8km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=163.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.9km az=88.0.
ISC III 13 23 40 25.8–.55 35.87N–.07 141.95E–.07 23 4.0b 32 1-147
IDC III 13 23 40 22.3–.62 35.90N 141.79E 0 4.2,4.2L **¶16453136**
ISCJB III 13 23 40 23.8–.42 35.85N–.05 142.03E–.05 23 3.9b,2.7s
JMA III 13 23 40 25.2–.50 36.10N 141.89E 18 3.7,2.7s
NEIC III 13 23 40 27.4–.49 35.85N 141.83E 35 4.3b,2.7s
ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=14.9km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.7km az=146.6.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=11.0km az=106.0.
ISC III 13 23 41 28.8–.91 36.69N–.03 140.91E–.05 46–8 4.7b 240 0-147
NIED III 13 23 41 00 36.70N 141.00E 50 4.6W **¶16311615**
MOS III 13 23 41 24.5–.96 36.66N 140.81E 23 4.9b
NEIC III 13 23 41 27.9–.39 36.71N 140.81E 32–2 4.7b
IDC III 13 23 41 28.8–1.9 36.64N 140.81E 45–20 4.5,4.3
JMA III 13 23 41 28.4–.10 36.65N 140.96E 49–2 4.6,4.3
ISCJB III 13 23 41 29.0–.39 36.64N–.03 140.82E–.04 58–3 4.6b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ7.00000°,λ64.00000°. NP2:ϕ_s22.00000°,δ83.00000°,λ93.00000°. M_o8.68000×10^{15}
NEIC Event type fe. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.
ISC III 13 23 53 48.9–.41 35.78N–.04 141.14E–.04 25–2 4.8b,4.2s 366 0-155
NIED III 13 23 53 00 35.80N 141.10E 32 5.0W,4.2s **¶16311616**
NEIC III 13 23 53 46.4–2.0 35.76N 141.00E 5–12 4.9b,4.2s
GCMT III 13 23 53 46.4–.30 35.72N 141.18E 43–1 5.0W,4.2s
JMA III 13 23 53 49.5–.20 35.79N 141.08E 35–1 4.9,4.2s
MOS III 13 23 53 50.7–.80 36.14N 140.87E 33 5.0b,4.2s
ISCJB III 13 23 53 50.2–.39 35.72N–.03 140.98E–.03 42–3 4.8b,4.2s
IDC III 13 23 53 50.8–1.8 35.69N 140.97E 40–17 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ48.00000°,λ-30.00000°. NP2:ϕ_s246.00000°,δ68.00000°,λ-134.00000°. M_o3.19000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=132.0. Recorded [3 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c53; s88,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.08±.19 $M_{\theta\theta}$2.12±.13; $M_{\phi\phi}$-3.20±.13; $M_{r\theta}$1.35±.13; $M_{\theta\phi}$-2.49±.09; $M_{\phi r}$2.05±.13; Best double couple: NP1:ϕ_s244.00000°,δ89.00000°,λ-151.00000°. NP2:ϕ_s154.00000°,δ61.00000°,λ-2.00000°. Principal axes:
T 3.2800,Plg19.0000°,Azm15.0000°; N 1.8390,Plg61.0000°,Azm247.0000°
; P -5.1190,Plg21.0000°,Azm113.0000° M_o4.20000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.0km az=44.9.
IDC Error ellipse: s-maj=13.5km s-min=9.0km az=96.0.
ISC III 14 00 01 43.9–.79 35.69N–.04 140.87E–.07 28–5 4.0b 44 0-148
NIED III 14 00 01 00 35.70N 140.80E 29 4.3W **¶16461675**
JMA III 14 00 01 43.4–.10 35.73N 140.83E 31–1 4.5
ISCJB III 14 00 01 43.1–.52 35.67N–.04 140.90E–.07 34–4 3.9b
IDC III 14 00 01 47.6–1.6 35.58N 140.87E 63–16 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ67.00000°,λ170.00000°. NP2:ϕ_s358.00000°,δ81.00000°,λ24.00000°. M_o3.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=178.1.
IDC Error ellipse: s-maj=16.0km s-min=9.7km az=92.0.
ISC III 14 00 15 28.6–.50 36.79N–.06 141.97E–.06 19 4.5b 69 1-151
NIED III 14 00 15 00 36.90N 141.90E 20 4.7W **¶602660352**
IDC III 14 00 15 25.7–.61 36.77N 141.96E 0 4.4,4.3
ISCJB III 14 00 15 26.6–.34 36.74N–.04 142.00E–.05 19 4.3b,3.9s
JMA III 14 00 15 29.1–.30 36.91N 141.90E 36–3 4.8,3.9s
NEIC III 14 00 15 29.7–1.8 36.72N 141.98E 28–12 4.7b,3.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ20.00000°,λ-14.00000°. NP2:ϕ_s199.00000°,δ85.00000°,λ-109.00000°. M_o1.41000×10^{16}
IDC Error ellipse: s-maj=15.0km s-min=13.7km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=145.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.8km az=129.0.
JMA III 14 00 20 51.3–.10 36.63N 140.63E 48–1 3.7
¶602660345
JMA Event type fe.
ISC III 14 00 22 48.4–.30 36.91N–.04 141.82E–.04 19 5.0b,4.5s 492 1-155
NIED III 14 00 22 00 36.90N 141.70E 17 4.8W,4.5s **¶16331060**
IDC III 14 00 22 44.8–.45 36.81N 141.88E 0 4.7,4.7b
BJI III 14 00 22 47.0 36.89N 141.73E 24 5.1b,5.0b
ISCJB III 14 00 22 47.1–.13 36.90N–.02 141.80E–.02 19 4.9b,4.5s
NEIC III 14 00 22 47.1–1.7 36.91N 141.77E 10–10 5.0b,4.5s
MOS III 14 00 22 49.9–.78 37.12N 141.81E 33 5.2b,4.7s
JMA III 14 00 22 49.7–.30 36.88N 141.72E 42–3 5.0,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ9.00000°,λ100.00000°. NP2:ϕ_s16.00000°,δ81.00000°,λ88.00000°. M_o1.89000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=11.2km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=155.4.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=133.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=107.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 14 00 42 29.0–.20 38.31N 141.67E 33 4.0
¶602660316
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 14 00 50 18.8–7.8 39.52N 142.08E 0 3.9,3.8
¶17195027
IDC Error ellipse: s-maj=270.1km s-min=32.6km az=62.0.
ISC III 14 00 54 06.9–1.0 35.58N–.05 141.06E–.09 31–7 3.8b 28 0-76
IDC III 14 00 54 02.5–.80 35.62N 141.04E 0 4.7L,4.0 **¶16453147**
ISCJB III 14 00 54 05.9–.80 35.64N–.05 141.1E–.10 37–7 3.8b,4.0
NEIC III 14 00 54 06.9–2.5 35.59N 141.03E 29–18 4.2b,4.0
JMA III 14 00 54 07.4–.20 35.72N 141.00E 35–1 3.4,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=18.6km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=8.2km az=167.2.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.2km az=79.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 00 55 49.6–.43 35.48N–.04 140.91E–.07 33 4.2b 68 0-148
NIED III 14 00 55 00 35.50N 141.10E 41 4.4W **¶16453148**
IDC III 14 00 55 44.6–.52 35.48N 140.89E 0 4.3,4.2
ISCJB III 14 00 55 47.6–.33 35.45N–.04 141.07E–.06 33 4.2b,4.2
NEIC III 14 00 55 48.6–1.3 35.45N 140.87E 27–9 4.3b,4.2
JMA III 14 00 55 48.7–.20 35.55N 141.11E 36–1 3.9,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s9.00000°,δ70.00000°,λ89.00000°. M_o4.76000×10^{15}

IDC Error ellipse: s-maj=15.7km s-min=12.4km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.4km az=171.5.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 01 02 40.1–.33 36.44N–.02 141.07E–.03 24–2 5.9b,5.6s 1669 1-158
NIED III 14 01 02 00 36.50N 141.10E 8 5.7W,5.6s **¶602443480**
BJI III 14 01 02 38.0 36.40N 140.90E 11 6.0s,5.8b
GCMT III 14 01 02 38.6–.10 36.43N 141.08E 12 5.7W,5.8b
JMA III 14 01 02 38.7 36.46N 141.13E 32–2 6.2,5.8b
NEIC III 14 01 02 38.6–.08 36.41N 140.89E 11 6.4,6.0b
ISCJB III 14 01 02 39.6–.50 36.41N–.02 140.96E–.02 27–3 5.8b,5.6s
MOS III 14 01 02 39.9–.94 36.45N 140.96E 30 6.0b,5.6s
IDC III 14 01 02 40.6–.44 36.46N 140.97E 22–2 5.5,5.5s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ63.00000°,λ-160.00000°. NP2:ϕ_s227.00000°,δ72.00000°,λ-28.00000°. $M_0$3.91000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c188; s131,c292;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.55±.04 $M_{\theta\theta}$-2.98±.04; $M_{\phi\phi}$4.53±.04; $M_{r\theta}$1.22±.11; $M_{\theta\phi}$1.24±.04; $M_{\phi r}$0.30±.11; Best double couple: NP1:ϕ_s230.00000° ,δ74.00000°,λ-24.00000°. NP2:ϕ_s327.00000°,δ67.00000°,λ-163.00000°. Principal axes: T 4.7680,Plg5.0000°,Azm280.0000°; N -0.9820,Plg62.0000°,Azm18.0000° ; P -3.7860,Plg28.0000°,Azm187.0000° $M_0$4.27700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=134.0. Felt [III] at Sagamihara. Also felt at Atsugi, Miura, Mizuho, Tachikawa, Tokyo, Tsukuba and Yokosuka. Recorded [5L JMA] in Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17} Nm; M_{rr}1.88 $M_{\theta\theta}$0.05 $M_{\phi\phi}$-1.93 $M_{r\theta}$-0.53 $M_{\theta\phi}$-1.68 $M_{\phi r}$0.07 Best double couple: NP1: ϕ_s7.00000°,δ48.00000°,λ57.00000°. NP2:ϕ_s231.00000°,δ52.00000°,λ121.00000°. Principal axes: T 2.1100,Plg66.0000°,Azm205.0000°; N 0.7900,Plg24.0000°,Azm31.0000° ; P -2.9000,Plg2.0000°,Azm300.0000° $M_0$2.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s31.00000°,δ85.00000°,λ-165.00000°. NP2: ϕ_s300.00000°,δ75.00000°,λ-5.00000°. Principal axes: T Plg7.0000°,Azm165.0000° ; N Plg0.0000°,Azm0.0000°; P Plg14.0000°,Azm257.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=160.6.
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=106.8.
IDC Error ellipse: s-maj=10.7km s-min=7.7km az=93.0.
JMA III 14 01 09 47.4–.30 36.64N 141.79E 53 3.7
¶602660282
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 14 01 12 06.8–1.2 35.85N–.08 140.97E–.09 27–8 4.1b 24 0-148
JMA III 14 01 12 06.5–.20 35.87N 140.91E 29–2 3.9 **¶17195033**
ISCJB III 14 01 12 06.4–.72 35.83N–.07 140.9E–.10 36–6 4.1b
IDC III 14 01 12 08.8–3.4 35.75N 140.87E 44–33 4.2,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=9.4km az=149.8.
IDC Error ellipse: s-maj=22.1km s-min=17.2km az=91.0.
ISC III 14 01 13 10.0–1.4 35.8N–.10 141.1E–.10 28–9 4.2b 23 0-148
IDC III 14 01 13 06.0–1.1 35.79N 140.95E 0 4.2,4.1 **¶16409287**
ISCJB III 14 01 13 09.0–1.0 35.8N–.10 141.1E–.10 35–8 4.1b,4.1
JMA III 14 01 13 10.0–.20 35.87N 140.93E 31–2 4.0,4.1
NEIC III 14 01 13 11.1–.57 35.77N 141.09E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=24.4km az=5.0.
ISCJB Event type fe. Error ellipse: s-maj=18.3km s-min=15.9km az=32.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=12.4km az=173.0.
ISC III 14 01 18 16.3–3.4 39.71N–.09 142.2E–.20 48–20 3.6b 14 1-73
IDC III 14 01 18 07.0–3.6 38.99N 142.03E 0 4.1s,4.1 **¶17195034**
JMA III 14 01 18 17.1–.10 39.73N 142.16E 43–2 3.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=142.1km s-min=31.0km az=68.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 01 20 05.3–.83 39.50N–.09 142.78E–.06 18 3.9b 27 1-88
ISCJB III 14 01 20 04.3–.70 39.57N–.10 142.92E–.05 18 3.8b **¶16461676**
JMA III 14 01 20 05.5–.40 39.51N 142.77E 11–4 4.4
IDC III 14 01 20 12.2–6.1 40.30N 142.77E 39–54 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=5.2km az=172.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=20.2km s-min=18.2km az=123.0.
ISC III 14 01 32 40.6–1.3 36.98N–.08 141.2E–.10 35 3.4b 12 0-69
JMA III 14 01 32 37.2–.10 36.96N 141.37E 25–1 3.5 **¶602660822**
ISCJB III 14 01 32 38.8–1.1 36.98N–.07 141.28E–.10 35 3.5b
IDC III 14 01 32 50.2–18 39.47N 140.59E 0 3.7,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=10.0km az=27.4.
IDC Error ellipse: s-maj=471.4km s-min=35.9km az=169.0.
ISC III 14 01 38 07.8–2.3 36.42N–.04 141.75E–.06 16–13 4.0b 44 1-147
IDC III 14 01 38 02.4–.67 35.75N 141.64E 0 4.1,4.0 **¶16409290**
NEIC III 14 01 38 07.7–2.6 35.71N 141.63E 38–22 4.0b,4.0
JMA III 14 01 38 09.6–.20 36.39N 141.67E 57–4 3.8,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=18.3km az=33.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=14.2km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 01 40 29.4 36.46N 141.07E 31–1 3.9
¶602660245
JMA Event type fe.
JMA III 14 01 43 49.8–.40 39.31N 142.38E 19 3.7
¶603049740
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 01 50 50.7–.75 39.53N–.08 142.48E–.07 29 3.9b 24 1-75
NIED III 14 01 50 00 39.50N 142.60E 20 4.1W **¶17195042**
JMA III 14 01 50 48.3–.30 39.51N 142.55E 8–4 4.0
ISCJB III 14 01 50 48.5–.59 39.47N–.07 142.61E–.06 29 3.8b
IDC III 14 01 50 52.8–3.5 39.48N 142.52E 48–33 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ9.00000°,λ177.00000°. NP2:ϕ_s315.00000°,δ90.00000°,λ81.00000°. $M_0$1.83000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.5km az=3.3.
IDC Error ellipse: s-maj=21.2km s-min=16.0km az=119.0.
JMA III 14 02 03 11.0–.20 39.12N 142.33E 34–3 3.6
¶602660210
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 02 07 05.5–.10 36.30N 140.88E 45–1 3.6
NIED III 14 02 07 00 36.30N 140.90E 20 4.9W **¶600544771**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ33.00000°,λ105.00000°. NP2:ϕ_s126.00000°,δ59.00000°,λ81.00000°. $M_0$2.15000×10^{16}
JMA III 14 02 09 04.1–.10 36.46N 141.10E 29–1 3.7
¶602660206
ISC III 14 02 11 29.2–.48 36.34N–.05 140.83E–.07 10 4.6b 89 1-147
NIED III 14 02 11 00 36.50N 141.10E 5 4.3W **¶16339084**
JMA III 14 02 11 25.1–.10 36.49N 141.11E 40–3 4.5
NEIC III 14 02 11 29.0–.41 36.38N 140.92E 35 4.6b
ISCJB III 14 02 11 28.9–.22 36.34N–.03 140.66E–.04 10 4.4b
IDC III 14 02 11 29.9–2.3 36.37N 140.86E 48–22 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ61.00000°,λ-158.00000°. NP2:ϕ_s219.00000°,δ70.00000°,λ-31.00000°. $M_0$3.28000×10^{15}
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.3km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.0km az=153.4.
IDC Error ellipse: s-maj=16.8km s-min=12.7km az=87.0.
JMA III 14 02 20 07.4–.10 36.47N 141.13E 27–1 3.9
¶602660191
JMA Event type fe.
JMA III 14 02 20 39.9–.20 38.26N 141.86E 52 3.7
¶603145361
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 02 23 41.1–.60 36.59N 141.81E 40 3.2
¶603049741
JMA Error ellipse: s-maj=1.1km s-min=5.4km az=-1.0.
ISC III 14 02 26 24.6–.50 35.77N–.04 141.30E–.05 26 4.0b 46 0-147
NIED III 14 02 26 00 35.70N 141.40E 20 4.2W **¶16409298**
ISCJB III 14 02 26 23.0–.38 35.81N–.04 141.43E–.05 26 4.1b
JMA III 14 02 26 23.2–.20 35.75N 141.42E 34–2 4.0
NEIC III 14 02 26 27.7–1.4 35.94N 141.34E 47–13 4.4b
IDC III 14 02 26 27.0–3.5 35.95N 141.35E 38–30 4.2L,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ48.00000°,λ-130.00000°. NP2:ϕ_s133.00000°,δ55.00000°,λ-55.00000°. $M_0$2.19000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.4km az=146.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=8.3km az=85.0.
IDC Error ellipse: s-maj=17.8km s-min=13.8km az=97.0.
ISC III 14 02 43 05.0–1.5 36.85N–.07 141.8E–.10 35 3.8b 16 1-61
IDC III 14 02 42 50.9–.92 37.96N 144.39E 0 3.8,3.7 **¶602660161**
JMA III 14 02 42 59.9–.40 36.90N 142.02E 28 3.5,3.7
ISCJB III 14 02 43 02.3–1.0 36.87N–.06 141.9E–.10 35 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 02 46 17.6–.10 35.71N 140.80E 29–1 1.7
¶603049742
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 14 02 46 33.5–1.0 36.59N 141.17E 0 3.8,3.7
¶600544824
IDC Error ellipse: s-maj=31.4km s-min=22.7km az=82.0.
ISC III 14 03 01 46.4–1.5 38.73N–.05 142.08E–.08 42–13 4.1b 49 1-150
IDC III 14 03 01 40.3–.56 38.75N 142.02E 0 4.2,4.1 **¶16410974**
JMA III 14 03 01 45.9–.20 38.80N 142.06E 36–2 4.1,4.1
ISCJB III 14 03 01 45.7–.84 38.75N–.04 142.05E–.08 52–7 4.1b,4.1
NEIC III 14 03 01 47.2–.75 38.77N 142.04E 49–6 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=14.7km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.3km az=21.3.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.5km az=118.0.
ISC III 14 03 10 08.8–.81 38.59N–.07 141.88E–.07 44–5 4.5b 100 1-116
IDC III 14 03 10 02.8–1.9 38.51N 141.86E 0 4.4,4.3b **¶16477711**
NEIC III 14 03 10 07.9–2.1 38.35N 141.88E 42–16 4.9b,4.3b
JMA III 14 03 10 10.4–.30 38.65N 141.87E 53–4 4.6,4.3b
ISCJB III 14 03 10 10.8–1.0 38.72N–.07 141.80E–.08 65–6 4.5b,4.3b
ISC Event type se.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC III 14 03 20 41.5–.65 36.66N–.04 141.88E–.04 33–2 5.3s,5.2b 813 1-154
NIED III 14 03 20 00 36.70N 141.80E 26 5.1W,5.2b **¶16407526**
IDC III 14 03 20 36.6–.42 36.63N 141.75E 0 5.0,4.9
BJI III 14 03 20 38.7 36.68N 141.81E 27 5.5b,5.4s
NEIC III 14 03 20 41.7–1.6 36.64N 141.72E 33–11 5.2b,5.4s
GCMT III 14 03 20 41.7–.40 36.73N 141.98E 32–0 5.3W,5.4s
ISCJB III 14 03 20 41.1–.48 36.60N–.03 141.81E–.02 40–4 5.2s,5.1b
MOS III 14 03 20 41.6–.89 36.91N 141.80E 33 5.4b,5.1b
JMA III 14 03 20 42.0–.40 36.68N 141.75E 40–5 5.3,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s16.00000°,δ56.00000°,λ-87.00000°. $M_0$4.57000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=11.3km az=103.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=160.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c50; s85,c123; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.88±.04 $M_{\theta\theta}$0.06±.03; $M_{\phi\phi}$0.81±.03; $M_{r\theta}$-0.16±.04; $M_{\theta\phi}$0.10±.01; $M_{\phi r}$-0.36±.03; Best double couple: NP1:ϕ_s14.00000°,δ57.00000° ,λ-83.00000°. NP2:ϕ_s182.00000°,δ33.00000°,λ-101.00000°. Principal axes: T 0.9100,Plg12.0000°,Azm99.0000°; N 0.0580,Plg6.0000°,Azm191.0000° ; P -0.9670,Plg77.0000°,Azm306.0000° $M_0$0.93900×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=172.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA III 14 03 34 46.4–.10 37.41N 141.17E 27–1 3.1
¶602660106
ISC III 14 03 35 10.3–1.5 37.26N–.09 141.32E–.09 34–4 3.7b 21 0-147
IDC III 14 03 34 58.5–.97 36.38N 141.71E 0 3.9,3.8 **¶600544869**
ISCJB III 14 03 35 08.6–1.5 37.18N–.09 141.5E–.10 50–11 3.8b,3.8
JMA III 14 03 35 11.3–.10 37.32N 141.30E 33–1 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=22.4km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=15.5km az=19.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 03 39 30.8–1.5 39.5N–.20 142.6E–.10 29 4.1b 21 3-88
IDC III 14 03 39 26.2–2.0 39.44N 142.73E 0 4.3s,4.3 **¶16424475**
NEIC III 14 03 39 30.3–.81 39.30N 142.58E 35 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=51.4km s-min=18.4km az=0.0.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=11.0km az=143.0.
JMA III 14 03 40 35.1–.20 36.48N 141.69E 45 3.5
¶603049745
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 03 43 29.6–.10 36.34N 140.91E 38–1 3.5
¶602660098
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 03 51 19.7–1.2 35.89N–.09 141.0E–.10 31 3.9b 9 0-56
NIED III 14 03 51 00 36.00N 141.10E 8 3.9W **¶17195058**
IDC III 14 03 51 15.1–1.3 35.86N 141.22E 0 4.0,3.8
JMA III 14 03 51 18.6–.10 35.98N 141.12E 25–2 3.7,3.8
ISCJB III 14 03 51 18.1–1.0 35.93N–.08 141.1E–.10 31 3.8b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ22.00000°,λ-55.00000°. NP2:ϕ_s360.00000°,δ72.00000°,λ-103.00000°. $M_0$7.15000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 14 03 54 55.5–1.4 35.87N–.07 141.6E–.10 26 3.7b 11 3-60
IDC III 14 03 54 48.8–2.6 36.25N 142.46E 0 4.0L,3.8 **¶17195060**
ISC Event type ke.
IDC Error ellipse: s-maj=79.6km s-min=21.1km az=71.0.
JMA III 14 03 55 37.6–.10 35.98N 141.03E 13–2 3.4
¶603049746
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 03 58 07.3–.10 37.41N 141.49E 37–2 3.7
¶602660094
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 04 01 19.8–.20 38.49N 142.04E 40–4 3.9
¶602660092
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 04 08 41.1–.10 37.24N 141.07E 20–1 3.7
¶603049747
JMA Event type fe.
JMA III 14 04 09 48.6–.40 39.67N 142.83E 28 4.1
¶603229652
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 04 14 56.2–1.2 36.04N–.07 141.5E–.10 26 3.6b 11 1-60
IDC III 14 04 14 52.9–1.9 35.79N 141.99E 0 3.7,3.7L **¶17195062**
ISCJB III 14 04 14 54.5–.95 35.96N–.05 141.71E–.09 26 3.5b,3.2s
JMA III 14 04 14 56.4–.30 36.02N 141.59E 32–4 3.4,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=123.6km s-min=24.3km az=119.0.

ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.5km az=5.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 14 04 18 16.6–.10 36.30N 140.78E 37–1 2.5
¶603229651
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 04 20 36.3–.10 37.51N 141.38E 28–2 3.6
¶603049757
JMA Event type fe.
JMA III 14 04 35 55.3–.10 36.57N 141.02E 33–1 3.5
¶602660052
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 04 40 50.4–2.7 36.17N–.05 141.82E–.09 26–19 3.9b 32 1-90
NIED III 14 04 40 00 36.20N 141.90E 23 4.0W **¶17195068**
IDC III 14 04 40 46.2–.86 36.12N 141.80E 0 4.0,3.9
JMA III 14 04 40 48.5–.30 36.20N 141.92E 27 4.2,3.9
ISCJB III 14 04 40 50.3–1.1 36.20N–.04 141.86E–.08 38–9 3.8b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ30.00000°,λ155.00000°. NP2:ϕ_s6.00000°,δ78.00000°,λ62.00000°. $M_0$9.64000×10^{14}
ISCJB Event type ke.
ISC III 14 04 44 10.3–.72 36.74N–.07 141.83E–.07 19 3.9b 28 1-90
NIED III 14 04 44 00 36.60N 141.40E 23 4.0W **¶16311638**
IDC III 14 04 44 07.1–.64 36.86N 142.44E 0 4.1,4.0
ISCJB III 14 04 44 09.3–.53 36.65N–.04 141.90E–.06 19 3.9b,4.0
NEIC III 14 04 44 10.8–.78 36.79N 142.29E 35 4.3b,4.0
JMA III 14 04 44 15.0–.40 36.63N 141.43E 47–4 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ45.00000°,λ132.00000°. NP2:ϕ_s324.00000°,δ58.00000°,λ57.00000°. $M_0$1.14000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=14.9km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.6km az=148.6.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.9km az=141.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 14 04 45 37.2–.60 37.27N–.05 141.58E–.05 45–5 4.7b 182 1-146
NIED III 14 04 45 00 37.30N 141.50E 44 4.7W **¶602443485**
IDC III 14 04 45 31.1–.50 37.31N 141.49E 0 4.7,4.6
ISCJB III 14 04 45 36.4–.63 37.25N–.03 141.54E–.05 50–5 4.7b,3.8s
NEIC III 14 04 45 37.8–.73 37.28N 141.44E 46–7 4.8b,3.8s
JMA III 14 04 45 37.8–.10 37.35N 141.51E 40–2 4.7,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ89.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=12.2km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.3km az=12.5.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=5.3km az=141.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 04 48 17.5–.10 36.03N 141.09E 28–2 3.7
¶602660040
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 04 53 04.2–.30 36.50N 141.95E 29 3.5
¶602660039
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 14 04 56 23.0–.10 37.25N 141.27E 22–1 2.2
¶16338004
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 04 59 04.7–.20 37.20N 141.38E 46–2 3.9
NIED III 14 04 59 00 37.20N 141.40E 47 4.7W **¶603049748**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ20.00000°,λ171.00000°. NP2:ϕ_s187.00000°,δ87.00000°,λ71.00000°. $M_0$1.17000×10^{16}
JMA III 14 05 10 22.8–.30 36.05N 141.05E 25–4 2.5
¶17195075
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 05 12 08.4–.20 39.26N 142.34E 23–3 3.8
¶603049749
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 05 14 25.6–.54 36.49N–.05 141.88E–.06 19 3.9b 38 1-152
NIED III 14 05 14 00 36.60N 142.00E 8 3.9W **¶16461683**
IDC III 14 05 14 22.3–.65 36.44N 141.92E 0 4.0,3.9
ISCJB III 14 05 14 23.6–.44 36.45N–.05 142.03E–.06 19 3.8b,3.9
JMA III 14 05 14 24.7–.40 36.56N 142.03E 30 3.9,3.9
NEIC III 14 05 14 26.3–3.5 36.47N 141.95E 24–24 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ45.00000°,λ59.00000°. NP2:ϕ_s351.00000°,δ53.00000°,λ118.00000°. $M_0$8.90000×10^{14}
IDC Error ellipse: s-maj=19.1km s-min=16.3km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=6.1km az=144.7.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=9.6km az=93.0.
ISC III 14 05 26 50.1–2.3 38.70N–.09 142.24E–.09 13–12 3.7b 15 1-76
IDC III 14 05 26 42.2–4.3 37.52N 142.29E 0 3.9,3.8 **¶602660016**
JMA III 14 05 26 54.3–.10 38.77N 142.16E 34–2 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=117.4km s-min=30.1km az=2.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 05 37 17.4–1.9 37.35N–.05 141.21E–.08 28–13 4.1b 55 0-147
NIED III 14 05 37 00 37.50N 141.20E 14 3.9W **¶16461685**
IDC III 14 05 37 13.6–.60 37.47N 141.11E 0 4.3,4.1
ISCJB III 14 05 37 17.3–.92 37.35N–.04 141.24E–.08 42–8 4.1b,4.1
JMA III 14 05 37 18.1 37.49N 141.18E 23–1 4.1,4.1
NEIC III 14 05 37 18.3–.36 37.34N 141.16E 35 4.2b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ27.00000°,λ119.00000°. NP2:ϕ_s56.00000°,δ67.00000°,λ76.00000°. $M_0$8.54000×10^{14}
IDC Error ellipse: s-maj=17.9km s-min=14.5km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.9km az=162.6.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.5km az=116.0.
ISC III 14 05 39 54.4–1.2 37.0N–.10 141.2E–.10 35 3.6b 10 0-90
JMA III 14 05 39 51.9–.10 37.03N 141.36E 28–1 3.8 **¶602660008**
ISCJB III 14 05 39 52.9–.75 36.98N–.08 141.28E–.07 35 3.5b
IDC III 14 05 40 04.7–5.8 36.99N 141.10E 128–55 3.6,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=8.4km az=7.7.
IDC Error ellipse: s-maj=33.6km s-min=21.2km az=102.0.
JMA III 14 05 52 41.6–.10 39.04N 142.42E 23–2 3.9
¶602660786
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 05 55 22.0–.10 37.38N 141.38E 41–2 3.8
¶602660783
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 06 06 58.3–.20 36.87N 141.14E 46–1 3.0
¶603049750
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 06 07 47.8–1.2 35.97N–.10 141.82E–.10 23 3.9b 13 1-147
NIED III 14 06 07 00 35.90N 142.00E 5 4.1W **¶17195087**
JMA III 14 06 07 47.9–.40 35.90N 142.01E 27 3.8
IDC III 14 06 07 47.2–.76 35.78N 140.19E 0 4.2,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ41.00000°,λ44.00000°. NP2:ϕ_s31.00000°,δ63.00000°,λ122.00000°. $M_0$1.74000×10^{15}
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=28.3km s-min=17.3km az=97.0.
JMA III 14 06 16 23.1–.30 36.42N 141.63E 53 3.9
¶602660757
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 06 18 30.4–1.5 37.43N–.04 141.39E–.05 24–10 5.2b 510 1-155
IDC III 14 06 18 26.8–.43 37.48N 141.31E 0 5.1,5.0 **¶16314282**
MOS III 14 06 18 30.8–.75 37.56N 141.22E 33 5.4b,5.0
ISCJB III 14 06 18 30.6–.13 37.45N–.03 141.35E–.03 33 5.1b,5.0
JMA III 14 06 18 32.1–.10 37.47N 141.35E 27–1 5.2,5.0
NEIC III 14 06 18 32.3–.16 37.45N 141.23E 35 5.3b,5.0
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.1km az=106.0.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=77.5.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=149.3.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=139.0. Recorded [4 JMA] in Fukushima and Ibaraki.
JMA III 14 06 19 41.7–.10 37.46N 141.33E 29–2 4.2
¶603049751
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 06 25 04.0–.10 37.47N 141.35E 27–2 3.8
¶602660753
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 06 26 13.5–.20 36.59N 141.71E 41–3 3.5
¶602660752
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 14 06 29 39.8–1.1 39.28N 142.87E 0 4.1,3.9
¶17195092
IDC Error ellipse: s-maj=35.0km s-min=27.3km az=91.0.
ISC III 14 06 43 53.7–.63 39.12N–.03 142.47E–.03 28–4 5.2s,5.2b 931 1-155
NIED III 14 06 43 00 39.20N 142.50E 29 5.1W,5.2b **¶16311647**
JMA III 14 06 43 52.7–.10 39.18N 142.47E 19–2 5.2,5.2b
BJI III 14 06 43 52.6 39.05N 142.48E 37 5.5b,5.3s
ISCJB III 14 06 43 53.9–.39 39.08N–.02 142.40E–.02 39–3 5.1s,5.1b
MOS III 14 06 43 54.3–.87 39.17N 142.30E 39 5.3b,5.1b
GCMT III 14 06 43 55.8–.30 39.28N 142.45E 30–0 5.2W,5.1b
IDC III 14 06 43 55.2–2.3 39.09N 142.43E 38–19 4.9s,4.9
NEIC III 14 06 43 55.8–.44 39.07N 142.31E 41–4 5.2b,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ37.00000°,λ-121.00000°. NP2:ϕ_s195.00000°,δ59.00000°,λ-69.00000°. $M_0$5.20000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=147.8.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=102.8.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c51; s83,c123; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.04 $M_{\theta\theta}$0.03±.02; $M_{\phi\phi}$0.68±.03; $M_{r\theta}$0.21±.04; $M_{\theta\phi}$-0.07±.02; $M_{\phi r}$0.28±.03; Best double couple: NP1:ϕ_s190.00000°,δ57.00000°,λ-72.00000°. NP2:ϕ_s340.00000°,δ37.00000°,λ-115.00000°. Principal axes:
T 0.7390,Plg11.0000°,Azm268.0000°; N 0.0870,Plg15.0000°,Azm0.0000°
; P -0.8260,Plg72.0000°,Azm143.0000° $M_0$0.78200×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=9.6km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=144.0. Recorded [3 JMA] in Aomori and Iwate.
JMA III 14 06 51 59.1–.10 36.46N 141.07E 20–1 2.8
¶602660732
ISC III 14 06 52 22.4–.58 36.90N–.03 141.24E–.04 44–5 5.2b,5.1s 1004 0-157
NIED III 14 06 52 00 37.00N 141.10E 53 5.1W,5.1s **¶600545003**
BJI III 14 06 52 17.5 36.78N 141.42E 34 5.6b,5.3s
MOS III 14 06 52 20.4–.97 37.01N 141.04E 34 5.3b,5.3s
JMA III 14 06 52 22.8–.10 36.96N 141.12E 52–1 5.2,5.3s
ISCJB III 14 06 52 23.2–.34 36.95N–.02 141.02E–.02 58–2 5.1b,5.0s
IDC III 14 06 52 24.0–1.6 36.97N 141.02E 56–15 4.9,4.7
GCMT III 14 06 52 25.1–.40 36.93N 141.11E 50–1 5.2W,4.7
NEIC III 14 06 52 25.1–.46 36.98N 140.97E 62–4 5.2b,4.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ44.00000°,λ56.00000°. NP2:ϕ_s178.00000°,δ55.00000°,λ118.00000°. $M_0$5.26000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=91.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=141.8.
IDC Error ellipse: s-maj=11.1km s-min=7.7km az=89.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c30; s64,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.04±.48 $M_{\theta\theta}$-0.67±.29; $M_{\phi\phi}$-5.36±.27; $M_{r\theta}$-2.23±.19; $M_{\theta\phi}$3.17±.17; $M_{\phi r}$-1.14±.19; Best double couple: NP1:ϕ_s174.00000°,δ49.00000°,λ120.00000°. NP2:ϕ_s313.00000°,δ49.00000°,λ60.00000°. Principal axes:
T 7.0620,Plg68.0000°,Azm153.0000°; N -0.0970,Plg22.0000°,Azm333.0000°
; P -6.9590,Plg0.0000°,Azm243.0000° $M_0$7.01000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=136.0. Recorded [4 JMA] in Fukushima.
ISC III 14 06 56 16.4–.89 36.43N–.08 140.62E–.10 73 4.1b 23 0-148
JMA III 14 06 56 14.5–.10 36.45N 140.72E 52–1 4.2 **¶16461690**
ISCJB III 14 06 56 15.1–.83 36.47N–.08 140.6E–.10 73 4.0b
IDC III 14 06 56 24.7–2.8 36.89N 140.51E 120–30 4.2,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=8.3km az=42.1.
IDC Error ellipse: s-maj=35.7km s-min=24.0km az=32.0.
JMA III 14 07 09 55.1–.10 35.98N 140.06E 62–1 2.7
¶603049753
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 07 10 03.7–.50 35.38N–.04 140.90E–.09 33 4.3b 46 2-84
ISCJB III 14 07 10 01.6–.34 35.38N–.03 141.09E–.08 33 4.1b **¶16461691**
NEIC III 14 07 10 05.8–.82 35.45N 140.98E 49–7 4.5b
IDC III 14 07 10 05.2–2.2 35.44N 140.91E 44–21 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.2km az=178.8.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.9km az=85.0.
IDC Error ellipse: s-maj=19.0km s-min=12.8km az=85.0.
ISC III 14 07 20 00.6–1.2 39.4N–.20 142.8E–.20 18 3.6b 8 24-63
IDC III 14 07 19 57.8–1.2 39.40N 142.85E 0 3.7,3.6 **¶17195096**
ISCJB III 14 07 19 58.5–.96 39.3N–.10 142.9E–.20 18 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 07 22 26.7–.10 38.73N 142.16E 32–2 3.8
¶602660692
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 07 23 12.0–1.8 38.6N–.10 142.2E–.20 35 3.6b 7 1-59
IDC III 14 07 22 57.9–5.5 39.54N 144.73E 0 4.1,4.1s **¶602660688**
ISCJB III 14 07 23 09.2–1.8 38.5N–.20 142.5E–.30 35 3.7b,4.1s
JMA III 14 07 23 13.3–.20 38.66N 142.10E 33–3 3.7,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=183.8km s-min=33.4km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=38.5km s-min=17.2km az=152.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 07 25 10.7–.59 36.78N–.04 141.34E–.04 42–4 5.0b,4.9s 802 1-152
NIED III 14 07 25 00 36.70N 141.30E 38 5.0W,4.9s **¶16311651**
BJI III 14 07 25 07.8 36.62N 141.36E 44 5.4b,5.0s
JMA III 14 07 25 09.1–.20 36.72N 141.33E 45–2 5.0,5.0s
ISCJB III 14 07 25 09.7–.45 36.73N–.02 141.32E–.02 46–3 4.9b,4.8s
MOS III 14 07 25 09.5–1.0 36.75N 141.32E 44 5.0b,4.8s
NEIC III 14 07 25 11.6–.52 36.73N 141.27E 48–4 5.0b,4.8s
GCMT III 14 07 25 11.6–.40 36.91N 141.31E 15–1 5.2W,4.8s
IDC III 14 07 25 12.7–2.0 36.72N 141.32E 62–18 4.7s,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ13.00000°,λ142.00000°. NP2:ϕ_s359.00000°,δ82.00000°,λ80.00000°. $M_0$3.06000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=153.4.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=100.3.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=140.0. Recorded [3 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c13; s68,c93; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.03±.21 $M_{\theta\theta}$0.72±.18; $M_{\phi\phi}$-0.68±.13; $M_{r\theta}$-0.65±.56; $M_{\theta\phi}$-1.07±.11; $M_{\phi r}$8.86±1.22; Best double couple: NP1:ϕ_s355.00000°,δ89.00000°,λ82.00000°. NP2:ϕ_s260.00000°,δ8.00000°,λ174.00000°. Principal axes:
T 8.6920,Plg45.0000°,Azm258.0000°; N 0.5420,Plg8.0000°,Azm355.0000°
; P -9.2350,Plg44.0000°,Azm93.0000° $M_0$8.96300×10^{16}

IDC Error ellipse: s-maj=11.7km s-min=10.0km az=108.0.
JMA III 14 07 31 36.9–.10 36.11N 141.20E 27–2 3.8 ¶602660681
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 07 32 44.5–1.0 35.45N–.04 140.96E–.06 33–4 4.3b 58 0-148
NIED III 14 07 32 00 35.50N 141.00E 44 4.5W **¶600545044**
ISCJB III 14 07 32 44.5–.60 35.41N–.04 140.98E–.07 53–5 4.2b
JMA III 14 07 32 44.5–.10 35.55N 141.01E 37–1 4.3
IDC III 14 07 32 45.8–2.1 35.44N 140.86E 44–20 4.2,4.1
NEIC III 14 07 32 46.2–.69 35.38N 140.90E 50–6 4.5b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ27.00000°,λ104.00000°. NP2:ϕ_s18.00000°,δ64.00000°,λ83.00000°. $M_0$6.31000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.3km az=176.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=12.4km az=80.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=84.0.
ISC III 14 07 43 05.8–.80 36.1N–.20 141.82E–.09 23 4.0b 19 3-147
ISCJB III 14 07 43 03.9–.62 36.0N–.10 141.82E–.08 23 3.9b **¶17195098**
IDC III 14 07 43 11.7–3.9 36.04N 141.79E 74–35 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=9.2km az=3.8.
IDC Error ellipse: s-maj=19.8km s-min=17.0km az=98.0.
ISC III 14 07 45 07.7–1.1 38.02N–.09 141.61E–.10 72–9 3.8b 34 1-89
ISCJB III 14 07 45 05.9–1.0 38.05N–.06 141.7E–.10 73–8 3.7b **¶16477763**
JMA III 14 07 45 06.4–.10 38.16N 141.66E 56–2 3.9
NEIC III 14 07 45 08.0–1.3 38.03N 141.70E 77–11 4.1b
IDC III 14 07 45 07.4–1.1 37.92N 141.55E 71–7 3.9s,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=8.8km az=31.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=10.3km az=119.0.
IDC Error ellipse: s-maj=25.8km s-min=18.4km az=69.0.
ISC III 14 07 48 08.4–1.7 35.7N–.10 141.7E–.10 25 3.5b 9 1-59
ISCJB III 14 07 48 05.8–1.2 35.65N–.08 141.9E–.10 25 3.5b **¶17195099**
JMA III 14 07 48 06.9–.20 35.74N 141.80E 14–4 3.5
IDC III 14 07 48 11.7–8.4 35.60N 141.62E 50–64 4.0L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=11.0km az=137.4.
JMA Error ellipse: s-maj=4.4km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=71.6km s-min=23.4km az=73.0.
JMA III 14 07 55 40.6–.20 37.13N 141.31E 48–2 3.6 ¶602660659
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 07 57 26.8–.57 36.02N–.06 141.84E–.07 23 4.1b 49 1-147
ISCJB III 14 07 57 24.8–.38 36.01N–.04 141.89E–.05 23 4.1b **¶600545071**
JMA III 14 07 57 24.2–.50 36.08N 142.01E 24 4.2
IDC III 14 07 57 29.1–2.7 36.00N 141.71E 41–25 4.2L,4.1
NEIC III 14 07 57 30.3–.98 35.96N 141.67E 54–9 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=17.7.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=14.0km az=80.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=58.0.
ISC III 14 07 58 56.2–1.4 35.8N–.10 140.2E–.20 60 3.9b 8 1-92
IDC III 14 07 58 53.6–1.1 37.29N 140.56E 0 4.2,3.9 **¶17195102**
JMA III 14 07 59 02.2–.30 37.07N 141.93E 20–3 4.4,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=25.2km az=36.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 14 08 07 19.5–1.9 39.32N–.08 142.72E–.06 16–11 3.8b 29 1-67
IDC III 14 08 07 15.7–4.3 39.09N 142.66E 0 3.9,3.8 **¶17195104**
JMA III 14 08 07 20.0–.30 39.50N 142.76E 4–4 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=95.8km s-min=28.2km az=163.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 14 08 08 20.9–.20 36.07N 141.21E 32–2 3.4 ¶602660638
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 08 08 46.2–.58 36.12N–.04 141.9E–.10 40–6 3.9b 47 1-147
NIED III 14 08 08 00 36.20N 142.00E 23 4.1W **¶600545078**
IDC III 14 08 08 40.4–.73 36.12N 141.84E 0 4.1,3.9
JMA III 14 08 08 42.7–.30 36.18N 141.99E 24 4.1,3.9
ISCJB III 14 08 08 44.7–1.0 36.08N–.04 141.88E–.08 44–8 3.9b,3.9
NEIC III 14 08 08 45.4–1.8 35.91N 141.92E 40–17 4.3b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ34.00000°,λ136.00000°. NP2:ϕ_s20.00000°,δ67.00000°,λ64.00000°. $M_0$1.78000×10^{15}
IDC Error ellipse: s-maj=19.4km s-min=17.6km az=148.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.8km az=171.5.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=9.5km az=68.0.
ISC III 14 08 11 28.4–1.6 36.7N–.10 141.6E–.10 67–15 3.4b 14 1-90
IDC III 14 08 11 25.3–1.2 38.47N 141.96E 0 3.8,3.5 **¶600545084**
ISCJB III 14 08 11 28.5–1.2 36.7N–.10 141.5E–.10 91–11 3.2b,3.5
JMA III 14 08 11 32.9–.10 36.67N 141.24E 43–2 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=41.7km s-min=30.9km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=15.8km az=38.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 08 13 50.2–.30 37.42N 141.78E 21–3 3.6 ¶603049754
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 08 15 06.6–.10 37.08N 141.06E 24 3.5 ¶602660630
JMA Event type fe.
ISC III 14 08 23 57.6–1.2 38.14N–.04 141.95E–.06 46–11 4.6b,3.5s 104 1-151
NIED III 14 08 23 00 38.10N 142.20E 5 4.7W,3.5s **¶16461698**
JMA III 14 08 23 51.4–.20 38.12N 142.16E 14–3 4.9,3.5s
ISCJB III 14 08 23 55.3–.65 38.09N–.03 141.98E–.06 39–5 4.6b,3.5s
NEIC III 14 08 23 58.4–.77 38.06N 141.94E 54–6 4.6b,3.5s
IDC III 14 08 23 59.3–1.8 38.08N 141.90E 63–17 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ36.00000°,λ-99.00000°. NP2:ϕ_s169.00000°,δ55.00000°,λ-83.00000°. $M_0$1.26000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=15.5.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.6km az=131.0.
IDC Error ellipse: s-maj=12.4km s-min=10.2km az=94.0.
ISC III 14 08 27 10.1–1.4 37.13N–.06 141.51E–.09 43–13 3.9b 40 1-147
NIED III 14 08 27 00 37.20N 141.40E 35 4.2W **¶600545100**
ISCJB III 14 08 27 09.1–.93 37.07N–.04 141.45E–.09 52–8 4.0b
JMA III 14 08 27 10.2–.10 37.17N 141.39E 43–1 4.4
IDC III 14 08 27 11.1–2.0 37.05N 141.45E 56–19 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ14.00000°,λ-114.00000°. NP2:ϕ_s223.00000°,δ77.00000°,λ-84.00000°. $M_0$2.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.1km az=168.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=12.1km az=82.0.
ISC III 14 08 33 01.3–1.1 35.92N–.04 140.73E–.09 51–9 3.6b 19 0-60
IDC III 14 08 32 52.4–3.3 36.11N 141.27E 0 4.0L,3.9 **¶600545111**
ISCJB III 14 08 33 00.3–.72 35.92N–.04 140.7E–.10 59–5 3.5b,3.9
JMA III 14 08 33 01.7–.10 35.89N 140.57E 45–1 2.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=104.4km s-min=24.3km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=15.8km s-min=6.0km az=171.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 08 39 46.8–.30 39.52N 142.57E 16–4 4.0 ¶602660587
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA III 14 08 53 01.3–.20 35.83N 140.88E 10–2 2.2 ¶603049756
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 14 08 57 01.3–.30 36.14N 141.92E 36 3.8 ¶603049758
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 08 58 16.2–1.5 35.97N–.03 141.79E–.05 10–9 4.7b 138 1-154
IDC III 14 08 58 14.2–.55 35.99N 141.88E 0 4.5,4.4 **¶16318220**
JMA III 14 08 58 15.1–.40 36.06N 141.94E 16 4.4,4.4
ISCJB III 14 08 58 16.0–1.0 35.95N–.03 141.84E–.03 20–7 4.6b,4.4
NEIC III 14 08 58 19.7–.24 35.93N 141.78E 35 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.6km az=155.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=135.1.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=152.0.
ISC III 14 09 02 00.5–.46 35.48N–.04 140.96E–.06 33 4.4b 58 0-148
NIED III 14 09 02 00 35.60N 141.00E 41 4.4W **¶16461701**
JMA III 14 09 02 01.1–.20 35.57N 141.02E 35–2 3.9
NEIC III 14 09 02 02.0–.97 35.43N 140.90E 49–9 4.5b
IDC III 14 09 02 03.1–2.0 35.39N 140.80E 58–18 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ16.00000°,λ62.00000°. NP2:ϕ_s14.00000°,δ76.00000°,λ98.00000°. $M_0$4.91000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.2km az=67.0.
IDC Error ellipse: s-maj=18.4km s-min=12.1km az=62.0.
ISC III 14 09 07 03.5–.82 38.45N–.07 142.80E–.08 23 3.7b 26 2-79
IDC III 14 09 06 59.8–.78 38.41N 142.89E 0 4.0s,4.0 **¶16477797**
ISCJB III 14 09 07 01.1–.63 38.41N–.05 142.84E–.07 23 3.7b,4.0
JMA III 14 09 07 01.5–.30 38.47N 142.64E 6 4.4,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=20.2km s-min=17.6km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.1km az=147.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 14 09 07 05.5 35.85N 140.27E 46–1 0.9 ¶602660557
ISC III 14 09 07 48.3–.39 36.87N–.03 141.37E–.04 32–2 4.9b,4.5s 829 1-155
NIED III 14 09 07 00 36.80N 141.40E 20 4.8W,4.5s **¶602443519**
IDC III 14 09 07 43.1–.40 36.83N 141.34E 0 4.9,4.8
JMA III 14 09 07 46.6–.10 36.81N 141.39E 32–2 4.8,4.8
MOS III 14 09 07 47.4–.98 36.96N 141.28E 33 5.3b,4.8
ISCJB III 14 09 07 47.2–.62 36.89N–.02 141.31E–.02 32–4 4.9b,4.6s
NEIC III 14 09 07 49.9–.47 36.91N 141.25E 41–4 4.9b,4.6s
GCMT III 14 09 07 49.8–.40 36.97N 141.55E 31–0 5.0W,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ37.00000°,λ-143.00000°. NP2:ϕ_s34.00000°,δ69.00000°,λ-59.00000°. $M_0$1.72000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=109.7.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=153.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=143.0. Recorded [3 JMA] in Fukushima.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s70,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.86±.29 $M_{\theta\theta}$0.32±.17; $M_{\phi\phi}$3.54±.16; $M_{r\theta}$-1.06±.23; $M_{\theta\phi}$0.11±.08; $M_{\phi r}$-1.04±.16; Best double couple: NP1:ϕ_s15.00000°,δ55.00000°,λ-75.00000°. NP2:ϕ_s171.00000°,δ38.00000°,λ-110.00000°. Principal axes: T 3.7030,Plg8.0000°,Azm95.0000°; N 0.5360,Plg12.0000°,Azm186.0000°; P -4.2390,Plg75.0000°,Azm330.0000° $M_0$3.97100×10^{16}
ISC III 14 09 11 57.8–2.3 36.97N–.10 141.7E–.10 33 12 1-44
JMA III 14 09 11 56.1–.50 37.09N 141.76E 40 3.6 **¶17195121**
IDC III 14 09 11 56.4–5.0 36.81N 141.63E 0 3.8,3.8b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=86.2km s-min=37.8km az=88.0.
JMA III 14 09 17 03.3–.10 36.94N 141.17E 47–1 3.5 ¶17195122
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 09 19 04.0–.10 37.04N 141.36E 27–1 3.1 ¶602660801
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 09 21 00.7–.60 37.00N–.05 141.27E–.07 35 4.1b 41 0-147
NIED III 14 09 20 00 37.00N 141.40E 5 4.2W **¶600545170**
IDC III 14 09 20 55.6–.96 37.02N 141.29E 0 4.1,4.0b
JMA III 14 09 20 56.6–.20 37.03N 141.43E 22–2 4.3,4.0b
ISCJB III 14 09 20 58.6–.43 36.97N–.04 141.35E–.05 35 4.1b,4.0b
NEIC III 14 09 21 01.2–1.1 36.98N 141.21E 40–12 4.3b,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ37.00000°,λ-59.00000°. NP2:ϕ_s168.00000°,δ59.00000°,λ-111.00000°. $M_0$2.00000×10^{15}
IDC Error ellipse: s-maj=24.5km s-min=15.7km az=169.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.6km az=144.8.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.0km az=205.0.
ISC III 14 09 23 20.3–.47 35.51N–.04 141.27E–.06 25 4.2b 63 0-148
NIED III 14 09 23 00 35.60N 141.00E 41 4.5W **¶16461702**
IDC III 14 09 23 16.6–.62 35.55N 141.30E 0 4.3,4.2
ISCJB III 14 09 23 18.2–.36 35.51N–.03 141.38E–.05 25 4.2b,4.1s
NEIC III 14 09 23 20.2–1.9 35.52N 141.30E 24–14 4.7b,4.1s
JMA III 14 09 23 22.4–.20 35.56N 141.05E 36–1 4.3,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ29.00000°,λ109.00000°. NP2:ϕ_s0.00000°,δ63.00000°,λ80.00000°. $M_0$5.83000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=13.6km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.6km az=26.4.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=78.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 09 24 26.2–.10 35.56N 140.99E 33–1 3.6
NIED III 14 09 24 00 35.60N 141.00E 41 4.4W **¶600545173**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ16.00000°,λ92.00000°. NP2:ϕ_s333.00000°,δ74.00000°,λ89.00000°. $M_0$4.05000×10^{15}
ISC III 14 09 37 47.2–1.5 38.52N–.07 141.22E–.08 16 3.3b 11 1-59
ISCJB III 14 09 37 45.5–1.4 38.46N–.06 141.33E–.09 16 3.5b **¶16477810**
JMA III 14 09 37 47.0 38.50N 141.25E 17–2 3.7
IDC III 14 09 37 58.6–6.1 39.26N 141.00E 77–57 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=7.3km az=39.6.
JMA Event type fe.
IDC Error ellipse: s-maj=43.5km s-min=30.2km az=99.0.
ISC III 14 09 38 45.5–.41 39.30N–.05 142.33E–.04 29 4.7b,3.8s 213 1-145
NIED III 14 09 38 00 39.30N 142.20E 50 4.8W,3.8s **¶17195125**
ISCJB III 14 09 38 43.9–.26 39.26N–.03 142.34E–.04 29 4.6b,3.9s
MOS III 14 09 38 46.9–1.1 39.35N 142.25E 52 5.1b,3.9s
IDC III 14 09 38 47.6–1.9 39.32N 142.20E 48–18 4.4,4.3
JMA III 14 09 38 47.5–.10 39.30N 142.24E 40–1 4.6,4.3
NEIC III 14 09 38 49.8–.71 39.34N 142.13E 62–6 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ23.00000°,λ87.00000°. NP2:ϕ_s21.00000°,δ67.00000°,λ91.00000°. $M_0$1.77000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=142.1.
MOS Error ellipse: s-maj=7.6km s-min=4.7km az=100.3.
IDC Error ellipse: s-maj=14.3km s-min=12.4km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.4km az=137.0.
ISC III 14 09 46 52.4–2.3 39.53N–.07 142.73E–.08 4–14 3.7b 28 1-88
IDC III 14 09 46 51.8–.92 39.54N 142.67E 0 3.8,3.6 **¶17195127**
ISCJB III 14 09 46 51.8–2.2 39.45N–.06 142.85E–.05 12–14 3.6b,3.6
JMA III 14 09 46 52.4–.30 39.48N 142.71E 1–5 3.9,3.6

ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=18.8km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.8km az=8.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 14 09 51 28.6–.10 35.89N 140.98E 13–2 3.5 ¶602660518
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 09 58 38.3–.10 37.34N 141.12E 31–1 3.6 ¶602660508
JMA Event type fe.
JMA III 14 10 04 28.0–.30 39.31N 143.00E 8 3.6 ¶602660495
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 14 10 12 35.8–.20 37.24N 141.67E 35–3 3.5 ¶602660487
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 10 16 11.0–.10 36.78N 141.05E 47–1 2.6 ¶603049759
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 10 17 51.3–2.4 39.00N–.08 142.4E–.10 48–20 3.7b 24 1-73
JMA III 14 10 17 48.9–.20 38.95N 142.40E 25–2 4.0 **¶17195130**
ISCJB III 14 10 17 49.2–1.5 38.96N–.05 142.5E–.10 50–11 3.8b
IDC III 14 10 17 52.5–3.5 38.88N 142.32E 64–31 3.7,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=8.4km az=16.2.
IDC Error ellipse: s-maj=27.7km s-min=16.1km az=87.0.
ISC III 14 10 19 18.3–.89 38.32N–.05 142.05E–.09 36–2 4.0b 30 1-89
ISCJB III 14 10 19 17.5–1.1 38.33N–.04 142.03E–.10 46–10 3.9b **¶602660483**
JMA III 14 10 19 17.3–.20 38.38N 142.06E 41–3 4.2
IDC III 14 10 19 20.6–2.6 38.26N 141.99E 60–24 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.3km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.0km s-min=15.0km az=92.0.
JMA III 14 10 24 06.6–.20 38.34N 142.19E 36–3 4.1 ¶602660482
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 10 27 54.9–.72 36.66N–.05 141.21E–.08 32 4.1b 40 1-147
IDC III 14 10 27 50.2–.86 36.75N 141.36E 0 4.2,4.1 **¶16453152**
ISCJB III 14 10 27 52.4–.57 36.67N–.04 141.45E–.07 32 4.0b,4.1
NEIC III 14 10 27 55.4–.44 36.68N 141.26E 35 4.0b,4.1
JMA III 14 10 27 56.4–.10 36.67N 141.14E 44–2 3.9,4.1
ISC Event type se.
IDC Error ellipse: s-maj=27.0km s-min=14.8km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.0km az=155.3.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.3km az=75.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 10 29 03.8–.45 39.65N–.06 142.55E–.04 16–1 5.1b,4.6s 695 1-151
NIED III 14 10 29 00 39.60N 142.60E 5 4.8W,4.6s **¶600545251**
JMA III 14 10 29 02.2–.30 39.61N 142.65E 12–4 4.9,4.6s
ISCJB III 14 10 29 04.2–.81 39.67N–.04 142.56E–.03 25–5 5.0b,4.6s
BJI III 14 10 29 05.1 39.70N 142.50E 20 5.1b,4.9b
MOS III 14 10 29 07.0–.76 39.94N 142.66E 33 5.3b,4.9b
NEIC III 14 10 29 07.0–.24 39.65N 142.42E 35 5.1b,4.9b
GCMT III 14 10 29 07.1–.30 39.49N 142.46E 15–1 4.9W,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ28.00000°,λ-91.00000°. NP2:ϕ_s218.00000°,δ62.00000°,λ-90.00000°. $M_0$1.82000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.6km az=172.8.
MOS Error ellipse: s-maj=13.3km s-min=6.7km az=78.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.3km az=179.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c31; s77,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.74±.17 $M_{\theta\theta}$1.38±.11; $M_{\phi\phi}$1.36±.11; $M_{r\theta}$-1.22±.35; $M_{\theta\phi}$1.23±.06; $M_{\phi r}$0.77±.33; Best double couple: NP1:ϕ_s67.00000°,δ53.00000°,λ-62.00000°. NP2:ϕ_s206.00000°,δ45.00000°,λ-122.00000°. Principal axes: T 2.6230,Plg4.0000°,Azm138.0000°; N 0.7020,Plg22.0000°,Azm229.0000°; P -3.3260,Plg68.0000°,Azm37.0000° $M_0$2.97500×10^{16}
ISC III 14 10 34 51.0–.34 39.55N–.04 142.66E–.04 29 4.9b,4.4s 700 1-149
NIED III 14 10 34 00 39.60N 142.60E 5 4.8W,4.4s **¶602660476**
IDC III 14 10 34 46.3–.51 39.52N 142.67E 0 4.6,4.5
JMA III 14 10 34 47.2–.30 39.59N 142.63E 8–3 5.0,4.5
ISCJB III 14 10 34 50.3–.14 39.66N–.03 142.51E–.02 29 4.8b,4.3s
MOS III 14 10 34 51.3–1.2 39.76N 142.46E 33 5.0b,4.3s
NEIC III 14 10 34 53.3–.54 39.63N 142.52E 39–5 4.9b,4.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ43.00000°,λ-26.00000°. NP2:ϕ_s200.00000°,δ73.00000°,λ-130.00000°. $M_0$1.69000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.9km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.3km az=165.6.
MOS Error ellipse: s-maj=6.1km s-min=4.4km az=90.5.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.0km az=150.0.
ISC III 14 10 42 41.7–.50 36.19N–.05 141.90E–.07 23 4.3b 67 1-147
NIED III 14 10 42 00 36.30N 141.80E 17 4.3W **¶16461707**
IDC III 14 10 42 38.5–.59 36.20N 141.89E 0 4.3,4.2
ISCJB III 14 10 42 39.8–.37 36.20N–.03 141.99E–.05 23 4.3b,4.2
NEIC III 14 10 42 41.8–1.6 36.19N 141.88E 22–11 4.7b,4.2
JMA III 14 10 42 42.2–.20 36.28N 141.84E 60–5 4.0,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ27.00000°,λ32.00000°. NP2:ϕ_s47.00000°,δ76.00000°,λ113.00000°. $M_0$3.66000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.9km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=23.6.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.0km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 10 47 14.7–.61 37.51N–.06 141.85E–.06 24 3.8b 32 1-146
ISCJB III 14 10 47 12.8–.50 37.56N–.05 142.05E–.06 24 3.9b **¶16461708**
JMA III 14 10 47 14.3–.20 37.59N 141.96E 30–4 4.4
IDC III 14 10 47 18.3–2.8 37.59N 141.91E 51–25 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.6km az=137.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.1km s-min=14.9km az=74.0.
ISC III 14 10 49 51.6–.69 38.39N–.05 142.17E–.08 36–2 4.3b 49 1-145
ISCJB III 14 10 49 50.1–.77 38.34N–.03 142.20E–.07 43–7 4.2b,3.1s **¶16461709**
JMA III 14 10 49 52.1–.10 38.45N 142.08E 40–2 4.2,3.1s
NEIC III 14 10 49 52.8–.80 38.32N 142.19E 49–8 4.4b,3.1s
IDC III 14 10 49 53.5–2.3 38.39N 142.06E 52–21 4.1,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.9km az=9.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.7km az=118.0.
IDC Error ellipse: s-maj=17.1km s-min=13.0km az=107.0.
ISC III 14 10 55 53.0–.88 36.13N–.09 141.99E–.09 23 3.8b 14 1-75
ISCJB III 14 10 55 50.6–.79 36.09N–.07 142.1E–.10 23 3.7b **¶17195133**
IDC III 14 10 55 56.2–3.3 36.05N 141.93E 54–36 3.8,3.7
JMA III 14 10 55 57.0–.10 37.18N 141.03E 28–1 2.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=8.7km az=18.5.
IDC Error ellipse: s-maj=24.8km s-min=23.5km az=0.0.
ISC III 14 11 04 01.6–.90 38.70N–.06 142.24E–.08 40–8 3.6b 29 1-89
IDC III 14 11 04 01.6–.81 38.63N 142.28E 42–8 3.7,3.7 **¶17195140**
ISCJB III 14 11 04 01.0–1.4 38.71N–.06 142.2E–.10 50–11 3.7b,3.7
JMA III 14 11 04 02.0–.20 38.77N 142.14E 37–2 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=18.7km s-min=15.6km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=8.5km az=20.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 11 04 48.0–.90 35.84N–.07 141.76E–.08 23 4.2s,3.5b 15 1-91
IDC III 14 11 04 45.0–1.4 35.95N 141.80E 0 4.1,4.1s **¶17195141**
ISCJB III 14 11 04 46.5–.80 35.90N–.08 141.90E–.09 23 4.1s,3.6b
JMA III 14 11 04 47.3–.20 35.91N 141.89E 48–4 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=22.5km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.6km az=142.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 11 06 26.0–.82 36.52N–.04 140.95E–.05 17–4 4.5b,3.8s 86 1-147
NIED III 14 11 06 00 36.50N 141.10E 5 4.7W,3.8s **¶16313914**
IDC III 14 11 06 22.9–.48 36.46N 140.94E 0 4.3,4.2
JMA III 14 11 06 25.0–.10 36.49N 141.09E 32–2 4.8,4.2
NEIC III 14 11 06 29.2–.74 36.52N 140.86E 41–6 4.8b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ47.00000°,λ-155.00000°. NP2:ϕ_s201.00000°,δ72.00000°,λ-46.00000°. $M_0$1.15000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=11.5km az=107.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.7km az=127.0. Recorded [3 JMA] in Ibaraki.
ISC III 14 11 11 16.1–1.4 35.86N–.05 140.96E–.07 14–8 3.5b 18 0-91
NIED III 14 11 11 00 35.90N 141.00E 8 4.0W **¶17195143**
IDC III 14 11 11 14.2–.96 35.81N 140.99E 0 3.9,3.7
ISCJB III 14 11 11 15.8–.89 35.85N–.05 140.98E–.07 21–5 3.5b,3.7
JMA III 14 11 11 16.3–.10 35.88N 140.95E 13–1 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ40.00000°,λ-104.00000°. NP2:ϕ_s8.00000°,δ52.00000°,λ-79.00000°. $M_0$1.10000×10^{15}
IDC Error ellipse: s-maj=33.4km s-min=19.8km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.7km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 11 14 33.1–.98 36.42N–.06 141.54E–.09 26 3.9b 14 1-75
IDC III 14 11 14 28.9–1.1 36.41N 141.78E 0 4.0,3.9b **¶17195144**
JMA III 14 11 14 31.6–.30 36.39N 141.74E 20 3.6,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=31.3km s-min=22.8km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 11 21 06.1–.30 36.42N 141.75E 46 3.6
NIED III 14 11 21 00 36.40N 141.70E 14 3.7W **¶17195145**
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ46.00000°,λ-139.00000°. NP2:ϕ_s170.00000°,δ62.00000°,λ-52.00000°. $M_0$3.82000×10^{14}
ISC III 14 11 27 10.3–2.1 38.6N–.10 142.0E–.20 41 3.7b 13 1-81
IDC III 14 11 26 59.5–6.3 37.94N 142.12E 0 3.8b,3.7 **¶602660416**
JMA III 14 11 27 11.3–.10 38.66N 141.85E 50–1 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=122.7km s-min=46.0km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 11 27 24.8–.45 36.53N–.05 141.75E–.05 26 4.4b 62 1-147
ISCJB III 14 11 27 22.6–.33 36.52N–.03 141.94E–.05 26 4.3b **¶16461711**
NEIC III 14 11 27 22.5–2.3 36.56N 141.85E 10–14 4.6b
JMA III 14 11 27 25.0–.20 36.62N 141.83E 26–4 4.3
IDC III 14 11 27 26.8–.70 36.56N 141.74E 38–6 4.3,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=5.0km az=18.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=80.0.
ISC III 14 11 29 28.0–.52 39.50N–.06 142.61E–.07 29 4.2b 48 1-88
NIED III 14 11 29 00 39.60N 142.60E 5 4.3W **¶16461712**
IDC III 14 11 29 23.5–.61 39.51N 142.68E 0 4.2,4.1
JMA III 14 11 29 24.5–.40 39.59N 142.62E 5–4 4.4,4.1
ISCJB III 14 11 29 26.0–.38 39.49N–.04 142.67E–.06 29 4.1b,4.1
NEIC III 14 11 29 29.9–.67 39.47N 142.70E 48–6 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ30.00000°,λ-97.00000°. NP2:ϕ_s242.00000°,δ60.00000°,λ-86.00000°. $M_0$2.86000×10^{15}
IDC Error ellipse: s-maj=16.2km s-min=12.6km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.5km az=42.2.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.8km az=117.0.
ISC III 14 11 48 35.6–.48 35.93N–.04 141.54E–.06 26 4.2b,3.6s 53 1-147
NIED III 14 11 48 00 36.00N 141.60E 23 4.3W,3.6s **¶602660375**
IDC III 14 11 48 31.5–.53 35.87N 141.54E 0 4.3,4.3L
ISCJB III 14 11 48 33.7–.34 35.90N–.03 141.65E–.05 26 4.2b,3.6s
JMA III 14 11 48 35.1–.20 35.97N 141.64E 36–3 4.3,3.6s
NEIC III 14 11 48 36.2–1.9 35.87N 141.58E 31–14 4.5b,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ36.00000°,λ-122.00000°. NP2:ϕ_s88.00000°,δ60.00000°,λ-69.00000°. $M_0$3.65000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=12.9km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.7km az=23.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.3km az=109.0.
ISC III 14 11 52 37.6–2.0 36.45N–.06 141.16E–.07 1–12 3.5b 19 0-76
NIED III 14 11 52 00 36.50N 141.10E 5 3.6W **¶600545361**
ISCJB III 14 11 52 36.6–1.2 36.43N–.04 141.19E–.06 4–6 3.6b
IDC III 14 11 52 37.5–1.0 36.33N 141.28E 0 3.7,3.6
JMA III 14 11 52 39.3 36.48N 141.07E 23–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ51.00000°,λ-134.00000°. NP2:ϕ_s218.00000°,δ56.00000°,λ-49.00000°. $M_0$2.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=7.4km az=166.9.
IDC Error ellipse: s-maj=26.6km s-min=20.1km az=76.0.
JMA Event type fe.
ISC III 14 11 59 19.2–1.1 39.04N–.07 142.40E–.09 27 3.7b 14 1-63
IDC III 14 11 59 15.0–1.0 38.92N 142.42E 0 3.6,3.5 **¶17195153**
ISCJB III 14 11 59 17.3–.79 38.97N–.07 142.49E–.08 27 3.4b,3.5
JMA III 14 11 59 19.3–.20 39.10N 142.41E 25–2 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=20.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=7.8km az=41.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 12 04 28.9–.50 35.98N–.05 141.16E–.06 31 4.3b,3.5s 53 0-147
NIED III 14 12 04 00 36.00N 141.20E 35 4.2W,3.5s **¶602659996**
IDC III 14 12 04 24.3–.61 35.91N 141.11E 0 4.3,4.1
ISCJB III 14 12 04 26.8–.39 35.95N–.04 141.21E–.05 31 4.2b,3.7s
NEIC III 14 12 04 28.7–1.8 35.88N 141.11E 30–12 4.6b,3.7s
JMA III 14 12 04 28.1–.10 36.00N 141.15E 38–2 4.2,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ13.00000°,λ-61.00000°. NP2:ϕ_s16.00000°,δ79.00000°,λ-96.00000°. $M_0$2.37000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=14.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.2km az=8.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=56.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 12 10 43.6–.10 36.91N 141.13E 49–1 3.7
NIED III 14 12 10 00 36.90N 141.10E 47 3.9W **¶600545383**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ19.00000°,λ-169.00000°. NP2:ϕ_s183.00000°,δ86.00000°,λ-71.00000°. $M_0$7.02000×10^{14}
ISC III 14 12 24 44.1–.77 38.23N–.06 142.12E–.07 30 3.9b 28 1-76
ISCJB III 14 12 24 42.3–.58 38.20N–.04 142.24E–.06 30 3.7b **¶602659941**
IDC III 14 12 24 45.4–3.9 38.26N 142.10E 39–35 3.8,3.7
JMA III 14 12 24 46.2–.20 38.39N 142.01E 39–3 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=22.6.
IDC Error ellipse: s-maj=25.7km s-min=15.8km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 12 31 24.3–1.5 38.27N–.05 141.81E–.09 38–3 3.7b 21 1-62
IDC III 14 12 31 16.0–3.4 38.47N 142.57E 0 3.9,3.8 **¶17195159**

ISCJB III 14 12 31 23.6–1.0 38.27N–.04 141.8E–.10 54–11 3.6b,3.8
JMA III 14 12 31 25.3–.10 38.35N 141.69E 48–2 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=101.1km s-min=23.8km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.5km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 12 38 13.8–.86 39.4N–.10 142.9E–.10 35 3.7b 17 5-72
IDC III 14 12 38 09.2–.85 39.41N 142.70E 0 3.8,3.7 **¶17195160**
ISCJB III 14 12 38 11.9–.69 39.34N–.08 142.8E–.10 35 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 12 38 48.9–1.9 36.19N–.07 140.9E–.10 10 3.6b 6 0-50
IDC III 14 12 38 32.0–15 34.59N 142.63E 0 3.7,3.6 **¶602659926**
JMA III 14 12 38 46.0–.20 36.22N 141.03E 43–2 2.3,3.6
ISCJB III 14 12 38 48.5–1.2 36.20N–.05 140.9E–.10 10 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 12 43 21.1–.20 37.20N 141.39E 45–1 3.5
¶602659922
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 12 48 13.1–.49 35.72N–.05 141.10E–.06 35–4 4.1b 63 0-148
NIED III 14 12 48 00 35.90N 140.90E 50 4.3W **¶16461718**
ISCJB III 14 12 48 13.2–.47 35.79N–.03 140.93E–.06 50–4 4.1b,3.3s
JMA III 14 12 48 13.5–.10 35.86N 140.91E 37–1 3.7,3.3s
NEIC III 14 12 48 15.5–.70 35.71N 140.85E 57–6 4.2b,3.3s
IDC III 14 12 48 16.5–1.7 35.75N 140.75E 63–16 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ5.00000°,λ153.00000°. NP2:ϕ_s27.00000°,δ88.00000°,λ85.00000°. $M_0$3.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=2.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.6km az=82.0.
IDC Error ellipse: s-maj=16.4km s-min=9.9km az=81.0.
ISC III 14 12 50 14.8–2.1 36.42N–.05 141.01E–.07 5–13 4.0b 25 0-78
NIED III 14 12 50 00 36.50N 141.10E 5 3.8W **¶16461719**
ISCJB III 14 12 50 13.3–1.4 36.42N–.05 141.24E–.05 7–7 3.8b,3.2s
IDC III 14 12 50 14.0–.80 36.43N 141.15E 0 4.3L,4.0
JMA III 14 12 50 16.4–.10 36.50N 141.08E 18–1 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ42.00000°,λ-118.00000°. NP2:ϕ_s165.00000°,δ54.00000°,λ-68.00000°. $M_0$5.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=7.0km az=31.5.
IDC Error ellipse: s-maj=21.3km s-min=17.6km az=64.0.
JMA Event type fe.
JMA III 14 13 06 19.0–.10 36.74N 140.96E 32–1 3.2
¶603049764
JMA III 14 13 14 34.3–.30 38.16N 142.09E 18–4 3.6
¶602659889
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 13 20 05.8–.54 36.49N–.05 141.79E–.06 19 4.3b,3.3s 50 1-147
NIED III 14 13 20 00 36.60N 141.70E 17 4.0W,3.3s **¶16409304**
ISCJB III 14 13 20 03.9–.37 36.50N–.03 141.88E–.05 19 4.2b,3.3s
IDC III 14 13 20 03.3–.56 36.50N 141.75E 0 4.2,4.1
JMA III 14 13 20 05.5–.20 36.56N 141.72E 72–3 4.2,4.1
NEIC III 14 13 20 06.7–2.1 36.50N 141.79E 24–15 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ22.00000°,λ142.00000°. NP2:ϕ_s64.00000°,δ77.00000°,λ72.00000°. $M_0$1.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.6km az=23.6.
IDC Error ellipse: s-maj=15.2km s-min=12.3km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.3km az=98.0.
JMA III 14 13 32 51.5–.30 35.53N 141.09E 39–2 2.1
¶602659755
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 13 35 44.4–2.6 37.36N–.05 141.87E–.06 5–16 3.9b 37 1-155
NIED III 14 13 35 00 37.30N 141.80E 8 4.0W **¶600545506**
ISCJB III 14 13 35 44.0–1.3 37.39N–.04 141.99E–.06 15–10 3.9b
IDC III 14 13 35 44.6–.69 37.58N 141.98E 0 4.1,3.9
JMA III 14 13 35 46.6–.20 37.33N 141.84E 30–4 4.1,3.9
NEIC III 14 13 35 46.9–3.8 37.47N 141.98E 17–24 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ61.00000°,λ-153.00000°. NP2:ϕ_s79.00000°,δ67.00000°,λ-32.00000°. $M_0$1.33000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=7.3km az=151.7.
IDC Error ellipse: s-maj=19.3km s-min=14.2km az=135.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.4km az=114.0.
JMA III 14 13 43 19.0–.10 37.44N 141.51E 36–2 4.0
¶600545514
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 13 48 40.3–.20 36.57N 141.73E 58–5 3.5
¶602659723
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 14 16 02.1–2.3 35.77N–.04 141.46E–.09 5–12 3.9b 33 0-84
IDC III 14 14 16 01.1–.97 35.84N 141.65E 0 3.9,3.8b **¶16410982**
NEIC III 14 14 16 06.5–.70 35.77N 141.45E 35 4.2b,3.8b
JMA III 14 14 16 08.3–.10 35.74N 141.05E 35–1 3.2,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=18.3km az=89.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=11.8km az=84.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 14 18 12.2 36.56N 140.83E 17–1 3.5
¶602659684
JMA Event type fe.
ISC III 14 14 22 37.4–.45 36.18N–.03 141.79E–.04 29–2 5.0b,4.5s 682 1-154
NIED III 14 14 22 00 36.20N 141.80E 17 4.8W,4.5s **¶16411000**
IDC III 14 14 22 33.0–.42 36.13N 141.83E 0 4.7,4.7b
ISCJB III 14 14 22 35.8–.76 36.19N–.02 141.72E–.02 26–5 5.0b,4.4s
BJI III 14 14 22 36.4 36.18N 141.36E 20 5.1b,4.8b
JMA III 14 14 22 36.3–.20 36.19N 141.80E 67–3 4.9,4.8b
MOS III 14 14 22 37.9–.93 36.41N 141.71E 35 5.2b,4.8b
NEIC III 14 14 22 38.8–.61 36.17N 141.66E 38–5 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ4.00000°,λ5.00000°. NP2: ϕ_s351.00000°,δ90.00000°,λ94.00000°. $M_0$1.97000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.3km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=158.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.5km az=97.7.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.9km az=142.0.
ISC III 14 14 38 52.0–.88 36.15N–.06 141.44E–.10 26 3.5b 18 1-78
IDC III 14 14 38 48.1–.96 36.13N 141.53E 0 3.7,3.7 **¶16477879**
ISCJB III 14 14 38 49.9–.71 36.15N–.04 141.59E–.08 26 3.5b,3.7
JMA III 14 14 38 52.1–.10 36.16N 141.38E 52–2 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=17.7km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.2km az=5.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 14 43 21.7–1.2 36.96N–.07 141.4E–.10 33 3.8b 16 1-74
NIED III 14 14 43 00 37.00N 141.50E 71 3.8W **¶600545624**
IDC III 14 14 43 15.9–1.4 36.96N 141.71E 0 4.1,4.0
ISCJB III 14 14 43 19.4–.85 36.94N–.06 141.59E–.09 33 3.9b,4.0
JMA III 14 14 43 21.0–.20 37.00N 141.45E 44–2 3.5,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ17.00000°,λ55.00000°. NP2:ϕ_s235.00000°,δ76.00000°,λ100.00000°. $M_0$5.82000×10^{14}
IDC Error ellipse: s-maj=38.9km s-min=18.3km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.4km az=155.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 14 14 44 35.6–.20 39.05N 142.37E 18–2 3.7
¶602659621
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 14 50 22.4 37.24N 141.02E 25–1 1.7
¶603145363
JMA III 14 14 50 34.7–.20 36.33N 141.57E 64–3 3.1
¶603145364
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 14 50 55.1–.46 38.32N–.04 142.31E–.04 34–1 4.8b,4.6s 304 1-155
ISCJB III 14 14 50 52.1–1.0 38.31N–.03 142.30E–.04 23–7 4.7s,4.7b **¶602659593**
MOS III 14 14 50 53.5–.97 38.39N 142.27E 33 5.2b,4.7b
JMA III 14 14 50 54.1–.30 38.34N 142.24E 32 4.8,4.7b
BJI III 14 14 50 54.4 38.16N 142.09E 40 5.0b,4.8s
IDC III 14 14 50 55.4–.48 38.31N 142.16E 32–2 4.4,4.3
NEIC III 14 14 50 56.1–.26 38.32N 142.15E 39–2 5.2b,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=146.8.
MOS Error ellipse: s-maj=9.1km s-min=5.4km az=91.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=11.4km s-min=10.8km az=28.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.6km az=136.0.
ISC III 14 14 54 60.0–.62 36.37N–.05 141.56E–.06 26 4.0b 29 1-147
IDC III 14 14 54 55.9–.90 36.35N 141.63E 0 4.2,4.0 **¶16410987**
JMA III 14 14 54 58.6–.30 36.39N 141.57E 71–5 3.8,4.0
ISCJB III 14 14 54 58.1–.54 36.37N–.05 141.74E–.05 26 4.0b,4.0
NEIC III 14 14 55 02.3–2.1 36.26N 141.58E 48–18 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=21.2km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.1km az=160.8.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=18.5km az=186.0.
ISC III 14 15 00 47.1–.44 36.33N–.05 141.91E–.06 19 4.6b,4.2s 126 1-151
NIED III 14 15 00 00 36.40N 141.80E 17 4.6W,4.2s **¶602659578**
IDC III 14 15 00 44.2–.50 36.28N 141.88E 0 4.5,4.4
NEIC III 14 15 00 45.7–2.1 36.33N 141.84E 8–13 4.8b,4.4
ISCJB III 14 15 00 45.8–.22 36.27N–.03 141.88E–.04 19 4.5b,4.2s
JMA III 14 15 00 48.2–.30 36.37N 141.85E 60 4.7,4.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ13.00000°,λ14.00000°. NP2:ϕ_s45.00000°,δ87.00000°,λ103.00000°. $M_0$9.60000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=12.0km az=104.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=156.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 14 15 06 13.6–.40 36.36N 141.95E 57 3.5
¶602659575
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 14 15 09 23.2–1.2 38.14N–.05 142.59E–.09 23 3.8b 24 2-62
IDC III 14 15 09 18.1–2.2 38.40N 142.88E 0 3.9L,3.8 **¶16410995**
ISCJB III 14 15 09 22.7–.88 38.01N–.04 142.57E–.08 23 3.8b,3.8
NEIC III 14 15 09 23.4–1.1 38.41N 142.79E 35 4.4b,3.8
JMA III 14 15 09 24.1–.50 38.16N 142.27E 0 4.0,3.8
ISC Event type se.
IDC Error ellipse: s-maj=56.9km s-min=25.2km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.5km az=173.7.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=15.4km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 14 15 21 48.4–1.4 38.39N–.06 141.6E–.10 61–13 3.8b 24 1-77
IDC III 14 15 21 40.0–1.1 38.30N 141.69E 0 3.9,3.8b **¶17195184**
ISCJB III 14 15 21 47.5–.92 38.38N–.05 141.6E–.10 71–7 3.9b,3.8b
JMA III 14 15 21 48.1–.10 38.38N 141.57E 57–1 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=39.5km s-min=20.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=6.5km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 15 22 56.7–.55 36.35N–.05 141.85E–.06 19 4.2b 52 1-147
NIED III 14 15 22 00 36.40N 141.80E 11 4.0W **¶602659546**
IDC III 14 15 22 54.2–.61 36.39N 141.78E 0 4.1,4.0
ISCJB III 14 15 22 54.5–.38 36.33N–.04 141.95E–.05 19 4.1b,4.0
JMA III 14 15 22 55.6–.10 36.38N 141.79E 0 4.1,4.0
NEIC III 14 15 22 56.6–2.9 36.37N 141.80E 16–17 4.4b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ80.00000°,λ8.00000°. NP2:ϕ_s94.00000°,δ82.00000°,λ170.00000°. $M_0$1.19000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=13.7km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=36.9.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=113.0.
JMA III 14 15 26 32.5–.10 36.65N 140.98E 50–2 3.9
¶603049768
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 15 33 32.3–.10 36.70N 140.97E 48–1 3.4
¶603049769
JMA Event type fe.
JMA III 14 15 34 52.4–.40 39.70N 142.66E 15 3.5
¶602659542
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 15 39 06.2–1.2 38.78N–.04 142.45E–.07 19–3 4.1b 28 1-94
IDC III 14 15 39 01.2–1.2 38.93N 143.11E 0 4.0,3.9 **¶16410997**
NEIC III 14 15 39 05.8–.83 38.97N 143.11E 35 4.4b,3.9
JMA III 14 15 39 06.1–.20 38.87N 142.57E 16–3 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=29.7km s-min=20.1km az=79.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.2km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 15 42 56.9–.91 36.13N–.04 141.11E–.07 25–5 3.7b 25 0-75
JMA III 14 15 42 54.9–.10 36.07N 141.20E 36–2 3.9 **¶602659531**
ISCJB III 14 15 42 55.6–1.1 36.11N–.04 141.16E–.09 29–6 3.6b
IDC III 14 15 42 59.7–3.0 36.07N 141.02E 45–28 3.6,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.3km az=168.9.
IDC Error ellipse: s-maj=34.3km s-min=14.5km az=78.0.
ISC III 14 15 43 42.1–1.6 39.02N–.08 142.5E–.10 27 3.7b 11 1-63
ISCJB III 14 15 43 40.1–1.2 38.98N–.07 142.6E–.10 27 3.7b **¶17195188**
IDC III 14 15 43 41.6–11 38.55N 141.53E 0 3.8,3.6
JMA III 14 15 43 43.1–.20 39.05N 142.38E 25–3 3.9,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=8.3km az=149.5.
IDC Error ellipse: s-maj=412.1km s-min=33.9km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 15 45 38.9–.30 39.51N 142.51E 17–4 3.8
¶602659526
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 15 50 44.8–.30 39.64N 142.67E 20 4.2
¶603145365
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 14 15 56 07.3–.49 36.99N–.05 141.83E–.05 19 4.4b 77 1-90
NIED III 14 15 56 00 37.00N 141.70E 26 4.2W **¶16314734**
ISCJB III 14 15 56 04.7–.37 37.00N–.04 141.99E–.05 19 4.3b,3.3s
NEIC III 14 15 56 08.7–.70 37.00N 141.91E 34–5 4.6b,3.3s
IDC III 14 15 56 09.2–.75 36.99N 141.90E 35–5 4.2,4.1
JMA III 14 15 56 09.0–.30 37.03N 141.70E 44–3 4.5,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ18.00000°,λ173.00000°. NP2:ϕ_s14.00000°,δ88.00000°,λ72.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.7km az=31.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=118.0.
IDC Error ellipse: s-maj=15.4km s-min=12.2km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 14 15 59 19.4–.30 39.57N 142.78E 5–4 4.2
¶603049771
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 14 16 11 34.3–.61 36.52N–.05 140.88E–.06 56–4 4.2b,3.4s 83 0-83
NIED III 14 16 11 00 36.50N 140.90E 47 4.2W,3.4s **¶602659494**
ISCJB III 14 16 11 32.5–.57 36.51N–.04 140.92E–.06 58–3 4.2b,3.4s
JMA III 14 16 11 33.6–.10 36.50N 140.88E 51–1 4.5,3.4s
NEIC III 14 16 11 33.6–.89 36.47N 140.91E 54–8 4.6b,3.4s
IDC III 14 16 11 35.0–.60 36.51N 140.77E 62–5 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ12.00000°,λ74.00000°. NP2:ϕ_s10.00000°,δ78.00000°,λ93.00000°. $M_0$2.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=7.7km az=49.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=12.4km s-min=8.5km az=103.0.
JMA III 14 16 15 50.0–.10 36.20N 140.94E 41–1 2.4
¶603049772
ISC III 14 16 21 49.9–2.4 39.14N–.05 142.44E–.09 17–13 3.6b 20 1-63
IDC III 14 16 21 47.0–1.2 38.98N 142.44E 0 3.7,3.6b **¶17195195**
ISCJB III 14 16 21 49.2–2.0 39.17N–.06 142.57E–.08 25–13 3.5b,3.6b
JMA III 14 16 21 51.9–.20 39.21N 142.40E 25–2 3.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=21.6km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=9.5km az=18.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 16 22 56.7–1.2 38.92N–.08 142.92E–.08 16 3.6b 16 1-62
IDC III 14 16 22 53.5–1.9 38.77N 142.81E 0 3.6,3.5b **¶16477900**
ISCJB III 14 16 22 55.2–1.1 38.85N–.09 143.09E–.08 16 3.6b,3.5b
JMA III 14 16 23 02.6–.40 39.03N 142.61E 11–4 4.2,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=48.2km s-min=23.0km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=8.6km az=169.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 16 23 02.6–.61 38.85N–.06 142.83E–.06 16 4.1b 45 1-88
ISCJB III 14 16 23 00.4–.57 38.75N–.07 142.76E–.08 16 4.2b **¶17195196**
NEIC III 14 16 23 02.7–2.9 38.96N 142.63E 13–18 4.7b
IDC III 14 16 23 03.7–1.0 38.98N 142.65E 19–4 4.0,4.0
JMA III 14 16 23 16.5–.40 39.41N 142.72E 0 4.3,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.1km az=137.3.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=130.0.
IDC Error ellipse: s-maj=18.9km s-min=14.2km az=151.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 14 16 30 14.7 36.16N 141.81E 58–3 2.4
¶17195200
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 16 35 50.2–.20 38.60N 142.16E 29–2 3.5
¶602659448
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 16 41 21.6–.20 37.83N 141.63E 38–5 3.5
¶602659430
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 16 41 28.7–.10 36.07N 141.22E 39–2 3.7
¶602659427
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 16 50 11.9–.60 36.32N–.06 141.82E–.06 19 3.8b 45 1-147
NIED III 14 16 50 00 36.40N 141.80E 20 4.0W **¶16424490**
ISCJB III 14 16 50 09.3–.47 36.29N–.04 142.03E–.06 19 4.4s,3.9b
IDC III 14 16 50 09.1–.69 36.34N 141.81E 0 4.4L,4.0
JMA III 14 16 50 13.3–.20 36.36N 141.84E 48 4.1,4.0
NEIC III 14 16 50 13.9–.45 36.32N 141.82E 35 4.1b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ14.00000°,λ139.00000°. NP2:ϕ_s4.00000°,δ81.00000°,λ80.00000°. $M_0$1.16000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.7km az=173.3.
IDC Error ellipse: s-maj=16.9km s-min=16.4km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.5km az=102.0.
JMA III 14 16 55 40.9–.10 36.93N 141.07E 56–1 3.6
¶602659404
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 16 56 53.8–1.2 34.73N–.07 140.82E–.09 29–11 3.4b 13 0-58
JMA III 14 16 56 51.1–.30 34.85N 141.13E 41–3 3.1 **¶602659403**
ISCJB III 14 16 56 52.5–1.1 34.77N–.07 141.0E–.10 42–10 3.4b
IDC III 14 16 56 55.3–1.2 34.03N 138.24E 0 3.4,3.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=10.2km az=158.8.
IDC Error ellipse: s-maj=35.3km s-min=19.2km az=52.0.
JMA III 14 17 02 20.0–.20 38.96N 142.31E 26–2 3.6
¶602659380
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 17 10 29.3–.10 36.46N 141.11E 20–1 3.2
¶603049774
JMA III 14 17 15 34.0–.30 37.33N 141.75E 45 3.8
NIED III 14 17 15 00 37.30N 141.80E 20 4.2W **¶600545890**
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s84.00000°,δ23.00000°,λ49.00000°. NP2:ϕ_s307.00000°,δ73.00000°,λ106.00000°. $M_0$2.49000×10^{15}
ISC III 14 17 19 53.2–.83 35.81N–.05 141.13E–.07 33–3 3.9b 38 0-84
NIED III 14 17 19 00 35.80N 141.10E 38 4.1W **¶602659349**
ISCJB III 14 17 19 52.5–.94 35.84N–.04 141.1E–.10 42–7 3.9b
JMA III 14 17 19 52.8–.10 35.82N 141.10E 33–1 3.5
IDC III 14 17 19 55.6–2.5 35.77N 141.01E 56–21 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ14.00000°,λ160.00000°. NP2:ϕ_s15.00000°,δ85.00000°,λ77.00000°. $M_0$1.74000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=6.0km az=169.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=14.9km az=80.0.
JMA III 14 17 20 04.8 37.35N 141.06E 24–1 3.7
¶602659347
JMA Event type fe.
ISC III 14 17 24 33.1–1.8 39.03N–.08 142.5E–.10 27 11 1-63
IDC III 14 17 24 29.3–14 39.03N 142.59E 0 3.7,3.6b **¶602659336**
JMA III 14 17 24 35.2–.40 39.11N 142.44E 21–5 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=304.9km s-min=64.3km az=175.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 14 17 30 59.2–.10 36.26N 141.51E 56–3 3.0
¶603049776
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 17 34 54.5–1.1 38.96N–.07 142.38E–.08 27 3.7b 16 1-63
IDC III 14 17 34 50.2–1.1 38.88N 142.35E 0 3.8,3.6 **¶17195218**
ISCJB III 14 17 34 52.6–.81 38.94N–.06 142.50E–.07 27 3.6b,3.6
JMA III 14 17 34 54.6–.20 38.96N 142.35E 20–3 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=22.4km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.9km az=23.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 17 44 49.5–2.2 35.58N–.09 140.8E–.20 19–3 3.5b 6 0-56
IDC III 14 17 44 40.0–3.3 35.46N 142.24E 0 3.6,3.5b **¶17195220**
JMA III 14 17 44 45.1–.20 35.88N 140.89E 34–2 2.2,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=105.3km s-min=27.7km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 17 49 07.4–.20 38.45N 142.04E 29–2 3.6
¶602659869
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 17 51 33.9–.20 37.51N 141.78E 15–3 3.6
¶602659867
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 18 10 32.5–.10 36.69N 141.19E 37–2 2.4
¶602659833
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 18 10 57.2–2.1 36.51N–.04 141.86E–.06 2–12 4.1b 65 1-147
IDC III 14 18 10 57.4–.65 36.54N 141.81E 0 4.1,4.0 **¶600546003**
NEIC III 14 18 11 00.9–2.9 36.53N 141.83E 24–20 4.5b,4.0
JMA III 14 18 11 02.4–.20 36.56N 141.73E 39 4.1,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.1km az=121.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.7km az=98.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 18 15 36.1–.20 37.35N 141.82E 27–3 3.2
¶603049779
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 14 18 20 57.0–.10 36.47N 141.03E 45–1 3.5
¶602659826
JMA Event type fe.
ISC III 14 18 35 41.8–.73 37.19N–.04 141.22E–.07 37–1 3.9b 40 0-147
NEIC III 14 18 35 36.7–4.9 37.36N 141.26E 2–31 4.6b **¶602443529**
ISCJB III 14 18 35 41.4–.74 37.16N–.03 141.20E–.08 51–5 3.9b
JMA III 14 18 35 42.4–.10 37.22N 141.16E 39–1 4.3
IDC III 14 18 35 43.0–2.5 37.25N 141.10E 44–25 4.0,3.9
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=15.5km s-min=10.6km az=118.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.4km az=178.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.7km s-min=15.1km az=69.0.
ISC III 14 18 41 01.4–.43 36.59N–.03 141.84E–.03 28–2 5.6b,5.3s 1325 1-155
IDC III 14 18 40 57.3–.34 36.59N 141.79E 0 5.3,5.3 **¶602447863**
BJI III 14 18 40 58.1 36.68N 141.71E 20 5.4b,5.4s
ISCJB III 14 18 40 59.2–.61 36.53N–.02 141.85E–.02 22–4 5.5b,5.2s
JMA III 14 18 41 00.9–.20 36.56N 141.85E 44–5 5.7,5.2s
NIED III 14 18 41 00 36.60N 141.70E 26 5.4W,5.2s
GCMT III 14 18 41 01.5–.10 36.61N 141.78E 21–0 5.4W,5.2s
NEIC III 14 18 41 01.5–1.1 36.58N 141.75E 26–8 5.6b,5.2s
MOS III 14 18 41 02.5–1.0 36.78N 141.79E 38 5.7b,5.3s
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=8.9km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=157.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ33.00000°,λ-31.00000°. NP2:ϕ_s228.00000°,δ73.00000°,λ-120.00000°. $M_0$1.31000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s92,c169; s125,c239;Duration: 1$\dot{s}$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.47±.02 $M_{\theta\theta}$1.03±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$0.66±.04; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$1.37±.06; Best double couple: NP1: ϕ_s216.00000°,δ82.00000°,λ-120.00000°. NP2:ϕ_s112.00000°,δ31.00000°,λ-16.00000°. Principal axes: T 1.6690,Plg30.0000°,Azm330.0000°; N 0.2340,Plg30.0000°,Azm221.0000° ; P -1.8990,Plg45.0000°,Azm96.0000° $M_0$1.78400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=130.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.0km s-min=3.8km az=107.8.
JMA III 14 18 53 14.7–.10 37.16N 141.18E 28–1 3.5
¶602659779
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 18 54 01.3–2.1 39.31N–.06 142.4E–.10 44–18 3.9b 30 1-88
JMA III 14 18 53 59.3–.20 39.27N 142.37E 27–3 4.2 **¶17195231**
ISCJB III 14 18 54 00.0–1.2 39.29N–.05 142.4E–.10 49–10 3.8b
IDC III 14 18 54 03.1–2.7 39.23N 142.27E 63–25 3.9,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.4km az=14.5.
IDC Error ellipse: s-maj=19.0km s-min=15.1km az=110.0.
JMA III 14 18 58 01.3–.50 38.10N 142.71E 0 3.7
¶602659772
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 14 19 04 10.8–.89 35.90N–.04 141.00E–.06 31–5 4.6b 116 0-148
NIED III 14 19 04 00 35.90N 140.90E 44 4.7W **¶16315870**
ISCJB III 14 19 04 11.2–.45 35.85N–.03 140.88E–.06 48–3 4.6b
JMA III 14 19 04 12.1–.10 35.92N 140.87E 37–1 4.5
IDC III 14 19 04 13.8–1.5 35.84N 140.81E 55–13 4.5,4.3
NEIC III 14 19 04 13.9–.70 35.84N 140.81E 58–6 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ17.00000°,λ121.00000°. NP2:ϕ_s11.00000°,δ76.00000°,λ81.00000°. $M_0$1.12000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=2.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ68.00000°,λ76.00000°. NP2: ϕ_s224.00000°,δ26.00000°,λ121.00000°. Principal axes: T Plg64.0000°,Azm258.0000° ; N Plg13.0000°,Azm16.0000°; P Plg22.0000°,Azm111.0000°
IDC Error ellipse: s-maj=13.1km s-min=7.9km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=92.0. Recorded [3 JMA] in Ibaraki.
ISC III 14 19 12 54.2–.98 36.51N–.07 141.84E–.09 19 4.3b 19 1-142
NIED III 14 19 12 00 36.60N 141.80E 26 4.1W **¶17195235**
IDC III 14 19 12 51.0–1.1 36.52N 141.91E 0 4.3,4.2b
ISCJB III 14 19 12 52.1–.73 36.45N–.06 141.93E–.08 19 4.2b,4.2b
JMA III 14 19 12 55.3–.30 36.60N 141.81E 55 3.8,4.2b
NEIC III 14 19 12 56.3–.70 36.51N 141.88E 35 4.5b,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ26.00000°,λ39.00000°. NP2:ϕ_s33.00000°,δ74.00000°,λ111.00000°. $M_0$1.78000×10^{15}
IDC Error ellipse: s-maj=32.3km s-min=20.6km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.5km az=151.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.9km az=52.0.
JMA III 14 19 17 28.7–.30 38.19N 142.04E 36–5 3.6
¶603049781
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 14 19 28 28.8–.37 38.63N–.04 141.98E–.04 45–2 5.2b,4.5s 765 1-155
NIED III 14 19 28 00 38.70N 141.80E 53 5.0W,4.5s **¶602659259**
BJI III 14 19 28 21.1 38.43N 142.32E 25 5.3b,5.1b
ISCJB III 14 19 28 26.9–.14 38.67N–.02 141.77E–.03 35 5.2b,4.6s
GCMT III 14 19 28 28.7–.30 38.68N 142.15E 63–1 5.1W,4.6s
MOS III 14 19 28 28.0–.72 38.88N 141.81E 37 5.5b,4.6s
NEIC III 14 19 28 28.7–.25 38.64N 141.72E 39–2 5.1b,4.6s
JMA III 14 19 28 29.7–.20 38.65N 141.88E 51–2 5.0,4.6s
IDC III 14 19 28 31.5–1.9 38.66N 141.83E 66–16 5.0,4.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ19.00000°,λ70.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ97.00000°. $M_0$3.49000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=139.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c79; s91,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.96±.20 $M_{\theta\theta}$-0.25±.15; $M_{\phi\phi}$-3.71±.15; $M_{r\theta}$2.10±.11; $M_{\theta\phi}$-1.69±.13; $M_{\phi r}$2.25±.12; Best double couple: NP1:ϕ_s35.00000°,δ63.00000° ,λ102.00000°. NP2:ϕ_s189.00000°,δ29.00000°,λ67.00000°. Principal axes: T 5.0900,Plg69.0000°,Azm330.0000°; N 0.2220,Plg11.0000°,Azm209.0000° ; P -5.3110,Plg18.0000°,Azm116.0000° $M_0$5.20100×10^{16}
MOS Error ellipse: s-maj=6.1km s-min=3.6km az=105.8.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=145.0. Felt at Sagamihara and Tokyo. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=10.1km s-min=8.7km az=112.0.
ISC III 14 19 29 27.1–.51 38.45N–.08 142.00E–.07 41 4.9b 76 1-155
IDC III 14 19 29 21.6–.66 38.52N 141.88E 0 5.0,4.8 **¶602442350**
NEIC III 14 19 29 23.8–3.0 38.49N 141.92E 14–18 4.9b,4.8
ISCJB III 14 19 29 26.0–.46 38.48N–.07 141.90E–.07 41 4.8b,4.8
JMA III 14 19 29 29.8–.10 38.63N 141.88E 43–1 5.1,4.8
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=13.7km az=177.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=117.0.

ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.7km az=152.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 19 31 36.2–.58 36.56N–.04 141.85E–.08 37–2 4.5b 78 1-151
NIED III 14 19 31 00 36.60N 141.70E 29 4.5W **¶16427599**
IDC III 14 19 31 30.4–.56 36.53N 141.92E 0 5.0L,4.6
ISCJB III 14 19 31 34.8–.87 36.53N–.03 141.85E–.06 41–6 4.5b,4.6
JMA III 14 19 31 35.4–.20 36.57N 141.75E 50–5 4.7,4.6
NEIC III 14 19 31 36.5–1.1 36.52N 141.83E 42–9 4.6b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ41.00000°,λ-92.00000°. NP2:ϕ_s5.00000°,δ49.00000°,λ-88.00000°. $M_0$5.61000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=14.4km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.7km az=3.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.0km az=125.0.
ISC III 14 19 32 30.8–.66 38.08N–.09 142.8E–.10 14 4.5b 25 6-89
ISCJB III 14 19 32 28.9–.50 38.06N–.06 142.7E–.10 14 4.4b **¶16427602**
IDC III 14 19 32 28.7–.69 38.15N 142.71E 0 4.6,4.4
NEIC III 14 19 32 34.1–.43 38.16N 142.74E 35 4.4b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=8.1km az=17.3.
IDC Error ellipse: s-maj=20.8km s-min=17.6km az=83.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.9km az=118.0.
ISC III 14 19 40 00.6–1.9 36.69N–.06 141.32E–.07 14–11 3.8b 29 1-147
JMA III 14 19 40 01.9–.10 36.75N 141.26E 37–2 3.9 **¶17195245**
ISCJB III 14 19 40 01.6–1.3 36.68N–.04 141.31E–.09 33–11 3.6b
IDC III 14 19 40 05.2–3.1 36.64N 141.26E 52–27 3.7,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.5km az=4.1.
IDC Error ellipse: s-maj=20.4km s-min=16.8km az=110.0.
JMA III 14 19 42 45.7–.30 36.72N 141.93E 41 3.7
¶602659248
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 14 19 43 39.9–.10 38.57N 142.08E 30–2 3.5
¶602659245
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 14 19 48 24.1–3.1 38.82N 142.69E 0 3.7,3.7b
¶17195246
IDC Error ellipse: s-maj=70.2km s-min=30.4km az=153.0.
ISC III 14 20 04 35.2–.72 35.93N–.04 140.89E–.06 42–6 4.3b,3.7s 74 0-152
NIED III 14 20 04 00 35.90N 140.80E 47 4.5W,3.7s **¶16442358**
ISCJB III 14 20 04 34.2–.47 35.91N–.03 140.88E–.06 49–3 4.2b,3.6s
JMA III 14 20 04 35.0–.10 35.91N 140.84E 41–1 4.4,3.6s
NEIC III 14 20 04 35.6–.98 35.91N 140.88E 47–7 4.6b,3.6s
IDC III 14 20 04 36.0–1.7 35.87N 140.85E 51–15 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ15.00000°,λ127.00000°. NP2:ϕ_s15.00000°,δ78.00000°,λ81.00000°. $M_0$7.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.5km az=167.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.3km az=135.0.
IDC Error ellipse: s-maj=15.8km s-min=9.4km az=89.0.
ISC III 14 20 09 55.3–.72 37.26N–.07 141.51E–.08 35 3.7b 28 1-117
NIED III 14 20 09 00 37.30N 141.50E 5 4.0W **¶16442361**
IDC III 14 20 09 50.0–.75 37.27N 141.67E 0 3.9,3.8L
JMA III 14 20 09 53.1–.10 37.33N 141.53E 16–2 4.4,3.8L
ISCJB III 14 20 09 53.6–.52 37.24N–.05 141.57E–.06 35 3.7b,3.8L
NEIC III 14 20 09 56.0–1.6 37.25N 141.61E 42–14 4.3b,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ50.00000°,λ-33.00000°. NP2:ϕ_s165.00000°,δ66.00000°,λ-135.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=21.4km s-min=19.8km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.5km az=156.4.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=11.0km az=77.0.
ISC III 14 20 16 19.1–2.3 39.15N–.08 142.7E–.10 20–16 3.8b 26 1-73
IDC III 14 20 16 15.9–.92 39.09N 142.72E 0 3.8,3.7 **¶17195250**
JMA III 14 20 16 19.2–.20 39.31N 142.71E 6–2 4.6,3.7
ISCJB III 14 20 16 19.8–1.6 39.18N–.06 142.8E–.10 39–12 3.7b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 14 20 30 45.8–.10 36.91N 141.06E 49–1 3.2
¶603049783
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 20 32 32.8–1.1 36.86N–.05 140.54E–.05 13–10 3.5b 19 0-57
IDC III 14 20 32 24.8–2.4 36.65N 141.42E 0 3.7,3.6b **¶17195252**
JMA III 14 20 32 34.1 36.81N 140.57E 5–1 2.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=64.4km s-min=28.4km az=65.0.
ISC III 14 20 33 51.0–1.0 35.78N–.05 140.91E–.09 49–10 3.9b 36 0-118
NIED III 14 20 33 00 35.80N 141.00E 41 4.1W **¶16461724**
JMA III 14 20 33 49.6–.10 35.78N 141.02E 33–1 3.6
ISCJB III 14 20 33 49.1–.61 35.76N–.04 141.01E–.08 47–5 3.9b
IDC III 14 20 33 51.8–1.7 35.69N 140.94E 58–16 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ8.00000°,λ125.00000°. NP2:ϕ_s17.00000°,δ83.00000°,λ85.00000°. $M_0$1.60000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=6.4km az=172.4.
IDC Error ellipse: s-maj=18.9km s-min=9.8km az=90.0.
ISC III 14 20 38 57.4–2.4 37.0N–.10 141.7E–.20 35 13 1-44
JMA III 14 20 38 50.9–.40 36.99N 142.04E 28–5 3.6 **¶17195253**
IDC III 14 20 38 50.5–9.5 36.71N 142.07E 0 3.5,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=156.9km s-min=69.5km az=132.0.
JMA III 14 20 54 29.6–.10 35.81N 140.92E 15–1 3.7
¶602659204
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 20 54 40.5–.10 37.45N 141.22E 20–3 3.5
¶602659201
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 20 57 48.2–1.2 36.40N–.06 140.92E–.08 32 3.4b 15 0-60
IDC III 14 20 57 42.0–2.3 36.60N 141.39E 0 3.5,3.5 **¶17195257**
ISCJB III 14 20 57 46.4–.93 36.35N–.05 141.10E–.08 32 3.3b,3.5
JMA III 14 20 57 48.0–.10 36.37N 141.01E 37–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=25.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.5km az=171.7.
JMA Event type fe.
IDC III 14 21 10 36.2–7.0 37.20N 141.60E 0 3.8,3.6b
¶16477966
IDC Error ellipse: s-maj=142.3km s-min=47.1km az=21.0.
ISC III 14 21 11 09.8–.74 35.66N–.07 141.82E–.09 22 4.0b 19 3-78
IDC III 14 21 11 06.7–.77 35.66N 141.83E 0 4.0,3.9 **¶17195259**
ISCJB III 14 21 11 07.7–.57 35.65N–.05 141.85E–.08 22 3.9b,3.9
NEIC III 14 21 11 11.8–.50 35.70N 141.78E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=16.4km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=7.5km az=10.6.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=10.1km az=93.0.
ISC III 14 21 13 50.3–1.6 39.2N–.20 142.2E–.20 51 3.8b 10 4-63
IDC III 14 21 13 44.2–3.6 39.23N 142.24E 0 4.0,3.9 **¶16338007**
ISCJB III 14 21 13 48.7–1.4 39.2N–.10 142.1E–.20 51 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 21 21 08.7–.10 36.74N 140.56E 8–1 1.9
¶603049785
ISC III 14 21 28 07.8–1.4 36.35N–.04 141.07E–.08 28–10 3.5b 20 0-56
IDC III 14 21 28 01.9–2.3 36.46N 141.55E 0 3.7,3.7 **¶602659162**
JMA III 14 21 28 08.2–.10 36.31N 141.05E 45–1 3.3,3.7
ISCJB III 14 21 28 08.0–.89 36.30N–.04 141.05E–.10 44–7 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 21 29 05.1–.10 36.29N 141.14E 17–1 3.3
¶602659159
ISC III 14 21 29 36.4–.60 36.54N–.05 141.64E–.07 26 3.9b 41 1-147
NIED III 14 21 29 00 36.50N 141.60E 35 4.0W **¶600546186**
IDC III 14 21 29 32.7–.64 36.51N 141.64E 0 4.3L,4.0
ISCJB III 14 21 29 34.4–.45 36.52N–.04 141.76E–.06 26 3.9b,4.0
JMA III 14 21 29 35.5–.30 36.54N 141.62E 56–5 4.2,4.0
NEIC III 14 21 29 35.5–4.2 36.52N 141.61E 19–25 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ57.00000°,λ148.00000°. NP2:ϕ_s298.00000°,δ64.00000°,λ38.00000°. $M_0$1.26000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=15.2km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.3km az=18.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.4km az=125.0.
JMA III 14 21 32 39.9–.10 37.35N 141.34E 35–1 3.6
¶602659154
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 21 35 28.3–2.2 37.35N–.06 141.82E–.09 9–12 3.2b 16 1-57
IDC III 14 21 35 27.3–1.4 37.45N 142.18E 0 3.5,3.3b **¶600546201**
ISCJB III 14 21 35 28.8–1.8 37.29N–.07 141.97E–.08 22–11 3.3b,3.3b
JMA III 14 21 35 29.8–.20 37.34N 141.89E 21–3 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=36.7km s-min=29.4km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=10.8km az=21.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 21 40 28.2–1.2 37.29N–.06 141.95E–.08 24 3.4b 15 1-57
IDC III 14 21 40 24.4–1.4 37.30N 142.10E 0 3.4,3.3b **¶17195265**
ISCJB III 14 21 40 26.6–.99 37.24N–.05 142.01E–.07 24 3.3b,3.3b
JMA III 14 21 40 30.6–.20 37.32N 141.79E 47–3 3.4,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=37.0km s-min=29.1km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.6km az=22.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 21 53 40.1–2.0 37.85N–.06 141.6E–.10 64–13 3.6b 25 1-49
IDC III 14 21 53 23.3–3.6 37.72N 143.11E 0 3.8,3.7 **¶17195266**
JMA III 14 21 53 41.3–.10 37.89N 141.50E 61–2 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=77.7km s-min=29.4km az=161.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 21 56 19.2–2.3 35.96N–.05 141.5E–.10 37–3 3.5b 18 1-56
JMA III 14 21 56 18.2–.20 36.01N 141.53E 43–3 3.4 **¶600546251**
ISCJB III 14 21 56 18.3–1.3 35.93N–.05 141.5E–.10 50–11 3.5b
IDC III 14 21 56 19.7–1.3 35.94N 140.46E 0 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=7.7km az=174.7.
IDC Error ellipse: s-maj=32.1km s-min=20.8km az=81.0.
JMA III 14 21 58 30.0–.10 36.72N 141.06E 45–1 3.4
¶603049787
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 22 01 49.3–.20 37.91N 141.89E 22 3.3
¶603145366
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 22 04 10.3–.50 35.82N–.03 141.24E–.04 33–1 4.9b,4.0s 771 0-162
NIED III 14 22 04 00 35.90N 141.30E 32 4.7W,4.0s **¶16314743**
BJI III 14 22 04 02.4 35.79N 141.68E 15 4.9b,4.6b
JMA III 14 22 04 09.8–.10 35.88N 141.23E 36–1 4.8,4.6b
ISCJB III 14 22 04 10.1–.41 35.77N–.02 141.12E–.03 42–3 4.9b,4.0s
IDC III 14 22 04 11.4–1.6 35.78N 141.16E 42–15 4.7,4.6
MOS III 14 22 04 11.6–.88 36.33N 141.16E 33 5.1b,4.6
NEIC III 14 22 04 11.8–.63 35.75N 141.06E 44–5 5.0b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ47.00000°,λ-121.00000°. NP2:ϕ_s125.00000°,δ51.00000°,λ-61.00000°. $M_0$1.22000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=149.7.
IDC Error ellipse: s-maj=12.7km s-min=8.6km az=88.0.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=97.8.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.
ISC III 14 22 16 45.1–.68 35.93N–.07 141.64E–.08 26 3.9b 31 1-147
NIED III 14 22 16 00 36.00N 141.80E 8 4.0W **¶602659063**
IDC III 14 22 16 41.0–.68 35.89N 141.76E 0 4.0,3.9
ISCJB III 14 22 16 42.9–.51 35.92N–.05 141.75E–.06 26 3.9b,3.9
JMA III 14 22 16 43.1–.30 36.00N 141.75E 35 3.5,3.9
NEIC III 14 22 16 46.1–.49 35.94N 141.64E 35 4.4b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s342.00000°,δ70.00000°,λ89.00000°. $M_0$1.21000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=16.1km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.3km az=142.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=9.2km az=156.0.
JMA III 14 22 16 59.2–.20 36.83N 141.30E 42–2 3.5
¶600546283
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 22 22 33.3–.60 39.14N–.05 142.51E–.07 36–2 4.4b 82 1-88
JMA III 14 22 22 31.4–.30 39.18N 142.53E 22–3 4.5 **¶16461666**
ISCJB III 14 22 22 32.5–.86 39.17N–.04 142.51E–.07 45–6 4.3b,4.0s
NEIC III 14 22 22 33.9–.79 39.16N 142.47E 43–6 4.6b,4.0s
IDC III 14 22 22 34.6–2.1 39.11N 142.48E 50–20 4.2,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.7km az=26.7.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.2km az=129.0.
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=97.0.
JMA III 14 22 31 28.5–.10 36.86N 141.09E 49–1 2.6
¶603049788
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 22 36 55.6–2.5 39.55N–.07 142.92E–.09 14–14 3.6b 24 1-50
JMA III 14 22 36 53.5–.20 39.43N 143.02E 0 4.0 **¶17195272**
IDC III 14 22 37 02.4–2.3 40.95N 142.58E 0 4.1L,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=48.2km s-min=24.8km az=147.0.
JMA III 14 22 37 12.3–.10 37.18N 141.34E 48–1 2.5
¶603049789
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 22 41 36.7–.50 38.70N–.05 142.17E–.07 41 4.3b 59 1-78
IDC III 14 22 41 31.6–.82 38.74N 142.05E 0 4.0,3.8 **¶602659021**
ISCJB III 14 22 41 34.9–.34 38.69N–.03 142.25E–.05 41 4.3b,3.8
NEIC III 14 22 41 36.2–1.6 38.61N 142.06E 36–14 4.7b,3.8
JMA III 14 22 41 38.8–.20 38.84N 142.00E 49–2 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=18.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=174.2.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.3km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 22 41 46.3–.10 37.19N 141.04E 31–1 3.5
¶16477989
JMA Event type fe.
ISC III 14 22 44 08.8–.85 36.56N–.06 141.7E–.10 26 3.7b 13 1-78
JMA III 14 22 44 04.5–.50 37.00N 142.54E 16 3.8 **¶17195275**
IDC III 14 22 44 05.0–.87 36.54N 141.74E 0 3.8,3.7
ISCJB III 14 22 44 06.7–.75 36.51N–.06 141.8E–.10 26 3.6b,3.7

ISC Event type ke.
ISCJB Event type ke.
ISC III 14 22 51 45.4–1.9 37.71N–.08 142.0E–.10 24 3.7b 10 1-62
IDC III 14 22 51 44.9–2.4 37.19N 142.60E 0 3.9,3.7 **¶17195276**
JMA III 14 22 51 45.8–.20 37.69N 141.98E 31–4 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=66.0km s-min=26.0km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 14 22 53 59.1–7.8 38.47N 142.43E 0 3.7,3.7
¶17195278
IDC Error ellipse: s-maj=130.5km s-min=46.6km az=106.0.
JMA III 14 22 54 31.6–.80 38.34N 142.31E 0 4.1
¶603049792
JMA Error ellipse: s-maj=3.3km s-min=6.1km az=-1.0.
ISC III 14 23 00 17.7–1.5 38.64N–.06 141.99E–.09 52–13 4.2b 44 1-79
IDC III 14 23 00 13.1–2.5 39.04N 141.90E 0 3.9,3.8 **¶602658983**
NEIC III 14 23 00 16.6–.61 38.83N 141.99E 35 4.7b,3.8
ISCJB III 14 23 00 16.6–.91 38.63N–.05 141.99E–.09 62–6 4.3b,3.8
JMA III 14 23 00 17.0–.20 38.62N 141.99E 45–2 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=55.8km s-min=25.0km az=149.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=8.4km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.0km az=27.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 14 23 02 24.4–.10 36.96N 141.35E 29–1 3.5
¶602658982
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 14 23 02 57.3–.61 36.23N–.07 140.5E–.10 35 3.8b 21 0-91
ISCJB III 14 23 02 55.8–.46 36.23N–.05 140.4E–.10 35 3.8b **¶600546372**
IDC III 14 23 02 56.2–1.0 36.20N 140.43E 24–6 3.8,3.8
JMA III 14 23 02 57.7–.10 35.97N 141.45E 38–3 3.5,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.3km az=162.9.
IDC Error ellipse: s-maj=20.4km s-min=15.4km az=93.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 23 03 35.4–1.4 37.01N–.09 141.26E–.10 33 3.9b 14 0-71
IDC III 14 23 03 27.8–2.2 37.25N 142.19E 0 4.1,3.8 **¶600546374**
JMA III 14 23 03 32.7–.10 36.97N 141.35E 31–1 4.0,3.8
ISCJB III 14 23 03 33.1–1.2 36.95N–.09 141.39E–.09 33 3.8b,3.8
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 14 23 10 38.2–.30 38.90N 142.52E 14–3 3.9
¶602658970
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 14 23 15 12.2–.94 36.26N–.04 141.78E–.06 19–4 4.5b 132 1-147
NIED III 14 23 15 00 36.20N 141.80E 11 4.5W **¶16461669**
IDC III 14 23 15 08.8–.52 36.17N 141.77E 0 4.5,4.4
ISCJB III 14 23 15 11.1–1.1 36.22N–.03 141.84E–.04 25–7 4.5b,4.4
JMA III 14 23 15 12.0–.30 36.23N 141.80E 32 4.6,4.4
NEIC III 14 23 15 14.1–.24 36.16N 141.84E 35 4.8b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ42.00000°,λ109.00000°. NP2:ϕ_s355.00000°,δ51.00000°,λ74.00000°. $M_0$5.55000×10^{15}
IDC Error ellipse: s-maj=13.4km s-min=12.5km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=165.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=137.0.
JMA III 14 23 20 52.1–.10 36.21N 141.02E 29–1 3.0
¶603049793
JMA III 14 23 30 56.6 36.39N 140.75E 19–1 3.5
¶602658943
JMA Event type fe.
ISC III 14 23 35 30.6–2.2 38.70N–.05 142.43E–.09 8–12 3.7b 21 1-59
JMA III 14 23 35 34.3–.20 38.73N 142.34E 26–2 3.9 **¶17195293**
IDC III 14 23 35 39.0–3.7 38.66N 142.40E 78–32 3.7,3.5
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=22.3km az=75.0.
ISC III 14 23 45 46.3–2.4 36.28N–.07 141.0E–.20 26 3.6b 8 0-60
IDC III 14 23 45 40.8–2.0 36.50N 141.56E 0 3.7,3.6 **¶600546437**
JMA III 14 23 45 44.4–.30 36.64N 141.45E 47–4 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=48.8km s-min=21.8km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 14 23 49 32.8 36.81N 140.59E 7–1 2.0
¶603049794
ISC III 14 23 49 51.1–.81 38.58N–.08 142.17E–.07 32–4 3.9b 34 1-145
IDC III 14 23 49 48.8–.64 37.72N 142.20E 48–6 3.9,3.8 **¶17195295**
JMA III 14 23 49 53.6–.20 38.70N 142.05E 43–2 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=16.5km s-min=12.9km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 14 23 50 16.2–1.8 36.36N 140.77E 0 3.9,3.8
¶17195298
IDC Error ellipse: s-maj=50.3km s-min=28.7km az=66.0.
JMA III 14 23 53 09.6–.10 36.58N 140.96E 18–1 2.3
¶600546445
JMA III 14 23 58 57.0–.10 38.23N 141.71E 47–2 3.6
¶602658888
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 00 01 58.8–.10 35.84N 140.87E 11–1 2.0
¶602662478
ISC III 15 00 02 49.6–1.6 36.13N–.03 141.22E–.05 2–10 4.3b 80 1-118
NIED III 15 00 02 00 36.20N 141.20E 8 3.9W **¶16461776**
IDC III 15 00 02 49.4–.69 36.12N 141.16E 0 4.2,4.1
JMA III 15 00 02 51.6–.10 36.16N 141.23E 43–2 4.2,4.1
NEIC III 15 00 02 52.4–3.3 36.12N 141.18E 19–20 4.6b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ-138.00000°. NP2:ϕ_s59.00000°,δ75.00000°,λ-73.00000°. $M_0$8.64000×10^{14}
IDC Error ellipse: s-maj=17.9km s-min=16.6km az=179.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.3km az=153.0.
ISC III 15 00 18 44.5–1.4 36.20N–.05 140.90E–.07 24–10 3.5b 17 0-79
IDC III 15 00 18 40.8–1.1 36.17N 140.92E 0 3.8,3.8L **¶17195960**
ISCJB III 15 00 18 43.5–.93 36.21N–.05 141.00E–.07 29–5 3.5b,3.8L
JMA III 15 00 18 44.2 36.21N 140.92E 33–1 3.7,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=21.6km az=4.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.6km az=143.4.
JMA Event type fe.
JMA III 15 00 20 29.2–.10 38.47N 142.05E 33–2 3.6
¶602662423
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 00 23 47.6–1.2 36.08N–.05 141.45E–.10 26 4.0b 20 1-75
IDC III 15 00 23 42.6–1.8 36.17N 141.81E 0 4.0,3.9 **¶17195962**
ISCJB III 15 00 23 45.7–.86 36.09N–.04 141.58E–.07 26 3.8b,3.9
JMA III 15 00 23 49.0–.20 36.10N 141.35E 51–3 3.4,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=51.2km s-min=20.2km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.0km az=168.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 00 25 11.0–.40 36.68N 141.25E 41 2.9
¶603229653
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 15 00 25 21.6–.64 36.18N–.07 141.58E–.09 26 4.0b 28 3-147
NIED III 15 00 25 00 36.20N 141.40E 35 4.1W **¶16461778**
ISCJB III 15 00 25 19.7–.54 36.18N–.06 141.60E–.08 26 3.9b
NEIC III 15 00 25 23.7–1.6 36.30N 141.46E 37–14 4.0b
IDC III 15 00 25 23.4–4.9 36.28N 141.49E 34–38 4.0,3.9

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ23.00000°,λ83.00000°. NP2:ϕ_s29.00000°,δ67.00000°,λ93.00000°. $M_0$1.45000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=8.0km az=27.4.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.4km az=63.0.
IDC Error ellipse: s-maj=23.2km s-min=17.3km az=75.0.
JMA III 15 00 30 17.8–.20 38.85N 142.48E 22–3 3.6
¶602662414
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 00 35 16.0–.55 35.95N–.05 141.45E–.07 26 3.9b 52 1-147
NIED III 15 00 35 00 36.10N 141.30E 32 3.8W **¶602662405**
IDC III 15 00 35 12.1–.60 35.92N 141.44E 0 4.1,3.9
ISCJB III 15 00 35 14.1–.39 35.94N–.05 141.52E–.05 26 3.9b,3.9
NEIC III 15 00 35 15.1–3.5 35.91N 141.43E 19–22 4.1b,3.9
JMA III 15 00 35 17.2–.20 36.10N 141.34E 43–3 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ36.00000°,λ127.00000°. NP2:ϕ_s34.00000°,δ62.00000°,λ67.00000°. $M_0$6.35000×10^{14}
IDC Error ellipse: s-maj=17.9km s-min=15.5km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=6.0km az=161.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=73.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 00 36 12.8–.10 35.82N 140.93E 15–1 3.6
¶600546544
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 00 38 32.2–2.1 37.23N–.04 141.69E–.06 8–13 4.3b 67 1-146
NIED III 15 00 38 00 37.30N 141.70E 5 4.0W **¶16478036**
IDC III 15 00 38 31.6–.65 37.25N 141.69E 0 4.2,4.1L
JMA III 15 00 38 32.7–.20 37.27N 141.74E 28–3 4.5,4.1L
NEIC III 15 00 38 37.5–.90 37.22N 141.66E 43–8 4.7b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ37.00000°,λ-28.00000°. NP2:ϕ_s194.00000°,δ73.00000°,λ-124.00000°. $M_0$1.14000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=15.4km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.6km az=126.0.
JMA III 15 00 42 53.9–.20 35.90N 141.76E 12–3 3.5
NIED III 15 00 42 00 35.90N 141.80E 32 4.4W **¶600546556**
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ68.00000°,λ5.00000°. NP2:ϕ_s229.00000°,δ85.00000°,λ157.00000°. $M_0$4.74000×10^{15}
JMA III 15 00 48 37.8–.10 36.63N 140.99E 44–1 2.4
¶603049795
ISC III 15 01 04 39.5–1.3 39.69N–.05 142.05E–.08 52–11 3.8b 35 1-75
IDC III 15 01 04 34.3–1.8 40.01N 141.91E 0 3.9,3.8 **¶600546592**
JMA III 15 01 04 38.3–.10 39.69N 142.16E 44–2 3.8,3.8
ISCJB III 15 01 04 38.5–.75 39.69N–.04 142.07E–.08 59–6 3.7b,3.0s
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 15 01 05 26.6–3.1 39.70N–.08 142.7E–.20 10 3.9b 11 1-45
JMA III 15 01 05 25.9–.50 39.69N 142.77E 12 4.0 **¶17195967**
IDC III 15 01 05 39.2–11 39.51N 141.24E 0 3.9b,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=235.5km s-min=42.8km az=97.0.
ISC III 15 01 34 50.0–2.3 38.66N–.06 142.1E–.10 50–20 3.5b,3.2s 20 1-70
IDC III 15 01 34 40.4–2.5 38.79N 142.91E 0 3.6,3.5 **¶17195976**
JMA III 15 01 34 49.8–.10 38.66N 142.08E 42–1 3.6,3.5
ISCJB III 15 01 34 49.5–1.4 38.64N–.05 142.1E–.10 58–10 3.5b,3.3s
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 15 01 35 44.1–.99 39.51N–.04 142.79E–.05 24–6 4.6b 166 1-145
NIED III 15 01 35 00 39.40N 142.90E 5 4.7W **¶16318236**
JMA III 15 01 35 39.7–.20 39.40N 142.94E 0 4.8
IDC III 15 01 35 43.3–5.7 39.30N 142.93E 27–38 4.3,4.3
ISCJB III 15 01 35 45.1–.60 39.51N–.04 142.75E–.05 42–5 4.6b,3.4s
NEIC III 15 01 35 46.1–.54 39.54N 142.69E 35–5 4.7b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ7.00000°,λ-16.00000°. NP2:ϕ_s225.00000°,δ88.00000°,λ-97.00000°. $M_0$1.43000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=12.9km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=137.4.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.3km az=144.0.
ISC III 15 01 42 57.6–1.6 35.91N–.05 141.5E–.10 46–16 3.4b 20 1-65
JMA III 15 01 42 55.0–.20 35.98N 141.63E 32–3 3.6 **¶17195978**
ISCJB III 15 01 42 56.7–.98 35.89N–.04 141.5E–.10 59–9 3.5b
IDC III 15 01 42 58.4–3.3 35.85N 141.41E 54–31 3.5,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=6.8km az=166.4.
IDC Error ellipse: s-maj=34.6km s-min=16.1km az=90.0.
ISC III 15 02 06 23.7–1.2 35.44N–.08 141.9E–.10 22 3.6b 12 1-59
IDC III 15 02 06 20.1–1.1 35.39N 142.06E 0 3.5,3.4 **¶17195983**
ISCJB III 15 02 06 21.7–.93 35.45N–.09 141.98E–.09 22 3.4b,3.2s
JMA III 15 02 06 28.8–.40 35.39N 141.41E 53 2.9,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=21.4km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=9.9km az=28.3.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISC III 15 02 09 23.1–.71 35.67N–.05 141.33E–.07 25 3.5b 25 0-79
IDC III 15 02 09 19.4–.86 35.84N 141.60E 0 3.8,3.7 **¶600546681**
ISCJB III 15 02 09 21.9–.65 35.68N–.05 141.37E–.08 25 3.5b,3.7
JMA III 15 02 09 25.2–.10 35.67N 141.05E 28–1 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.3km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.2km az=7.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 02 16 14.3–.10 38.87N 141.99E 48–1 3.6
¶16424499
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 02 17 13.1–.76 35.93N–.04 141.71E–.05 24–5 4.7b,3.6s 183 1-147
NIED III 15 02 17 00 36.00N 141.80E 26 4.3W,3.6s **¶16314749**
IDC III 15 02 17 09.0–.50 35.91N 141.72E 0 4.5,4.5
JMA III 15 02 17 12.6–.20 35.99N 141.76E 41–4 4.2,4.5
NEIC III 15 02 17 14.7–1.7 35.99N 141.61E 30–12 4.7b,4.5
ISCJB III 15 02 17 14.5–.56 35.94N–.03 141.58E–.04 44–5 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ32.00000°,λ-122.00000°. NP2:ϕ_s109.00000°,δ63.00000°,λ-72.00000°. $M_0$3.59000×10^{15}
NEIC Event type se.
ISCJB Event type se.
JMA III 15 02 20 44.8–.40 38.06N 142.12E 21 3.6
¶602663093
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 02 22 16.3–1.9 37.56N–.05 141.9E–.10 50–17 3.7b 30 1-146
IDC III 15 02 22 09.7–.77 37.65N 141.77E 0 3.8,3.7 **¶16461780**
JMA III 15 02 22 16.6–.10 37.58N 141.78E 48–3 3.8,3.7
ISCJB III 15 02 22 16.2–1.2 37.54N–.04 141.7E–.10 66–9 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 02 29 20.5–2.3 38.31N–.06 142.15E–.08 6–13 3.7b 18 1-89
JMA III 15 02 29 23.4–.40 38.35N 142.20E 38 3.9 **¶17195990**
IDC III 15 02 29 25.0–.94 39.35N 142.32E 0 4.0,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=49.9km s-min=22.0km az=99.0.
ISC III 15 02 31 35.8–.88 35.91N–.07 140.92E–.10 31 3.5b 15 0-148
IDC III 15 02 31 30.7–1.1 35.80N 140.97E 0 3.7,3.6 **¶602663086**

ISCJB III 15 02 31 34.9–.89 36.01N–.06 140.99E–.10 31 3.5b,2.5s
JMA III 15 02 31 36.1–.10 35.90N 140.88E 40–1 3.3,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=24.5km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=8.5km az=158.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 02 31 59.0–.85 35.86N–.05 140.91E–.09 40–7 4.2b 45 0-148
NIED III 15 02 31 00 35.90N 140.90E 41 4.2W **¶17195991**
IDC III 15 02 31 53.2–.61 35.89N 140.89E 0 4.3,4.1
ISCJB III 15 02 31 57.9–.57 35.83N–.04 140.91E–.08 48–4 4.1b,4.1
NEIC III 15 02 31 58.9–1.2 35.81N 140.94E 42–11 4.5b,4.1
JMA III 15 02 31 59.5–.10 35.90N 140.88E 36–1 3.8,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ15.00000°,λ57.00000°. NP2:ϕ_s13.00000°,δ77.00000°,λ98.00000°. $M_0$2.36000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=13.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.5km az=166.3.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.0km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 02 33 01.7–.30 39.45N 142.96E 8–4 4.2
¶602707255

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 15 02 33 50.0–1.2 39.2N–.10 142.6E–.10 27 4.1b 17 1-73
IDC III 15 02 33 46.6–2.7 39.17N 142.28E 0 4.1,4.0b **¶600546695**
ISCJB III 15 02 33 47.6–.88 39.06N–.08 142.7E–.10 27 4.0b,4.0b
JMA III 15 02 33 53.8–.20 39.15N 142.34E 33–5 3.9,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=103.7km s-min=20.2km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=15.2km s-min=7.3km az=136.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 02 42 23.8–1.8 39.33N–.05 142.18E–.08 18–8 3.4b 17 1-76
JMA III 15 02 42 21.4–.30 39.23N 142.39E 31–4 3.5 **¶17195997**
IDC III 15 02 42 26.0–1.1 38.17N 144.43E 0 4.0L,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=33.6km s-min=24.9km az=164.0.
ISC III 15 02 46 38.2–.64 35.81N–.07 141.80E–.08 23 3.8b 24 1-147
NIED III 15 02 46 00 35.90N 141.80E 23 3.8W **¶17195998**
IDC III 15 02 46 34.7–.68 35.86N 141.80E 0 4.0,3.9
ISCJB III 15 02 46 36.4–.54 35.90N–.07 141.91E–.07 23 3.8b,3.9
JMA III 15 02 46 38.2–.20 35.95N 141.83E 44 3.6,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ39.00000°,λ-118.00000°. NP2:ϕ_s246.00000°,δ56.00000°,λ-69.00000°. $M_0$6.42000×10^{14}
IDC Error ellipse: s-maj=18.5km s-min=17.3km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.1km az=146.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 02 46 47.7–.10 37.07N 141.04E 29–1 2.5
¶603049797

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 02 52 03.7–.20 39.15N 142.59E 23 3.5
¶602663059

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 02 53 23.1–.20 36.82N 141.07E 45–2 1.8
¶603049798

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 02 59 57.2–1.1 36.20N–.08 141.16E–.08 31 3.5b 15 1-60
IDC III 15 02 59 52.4–1.2 36.06N 141.24E 0 3.7,3.6b **¶17196005**
ISCJB III 15 02 59 55.1–.85 36.11N–.08 141.22E–.08 31 3.6b,3.6b
JMA III 15 02 59 59.3–.10 36.25N 141.02E 46–1 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=21.1km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=8.1km az=36.1.
JMA Event type fe.
JMA III 15 03 04 15.7–.20 36.38N 141.07E 42–2 3.2
¶602663042

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 03 04 52.6–.78 36.51N–.06 141.90E–.06 19 3.8b 24 1-79
NIED III 15 03 04 00 36.60N 141.90E 23 4.0W **¶16461782**
IDC III 15 03 04 50.0–.96 36.60N 141.76E 0 3.9,3.8
ISCJB III 15 03 04 50.7–.71 36.61N–.06 142.05E–.06 19 3.6b,3.8
JMA III 15 03 04 52.8–.30 36.61N 141.93E 24 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ18.00000°,λ100.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ87.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=25.4km s-min=22.9km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.6km az=152.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 03 16 08.2–1.2 36.75N–.06 141.47E–.09 26 3.8b 17 1-75
NIED III 15 03 16 00 36.80N 141.30E 38 3.8W **¶17196007**
IDC III 15 03 16 02.9–1.9 36.88N 141.85E 0 3.8,3.8
ISCJB III 15 03 16 06.7–.95 36.71N–.05 141.54E–.08 26 3.6b,3.8
JMA III 15 03 16 10.2–.10 36.76N 141.29E 46–2 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ19.00000°,λ151.00000°. NP2:ϕ_s37.00000°,δ81.00000°,λ73.00000°. $M_0$5.13000×10^{14}
IDC Error ellipse: s-maj=49.6km s-min=24.3km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.9km az=157.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 03 17 25.6–3.7 39.14N–.04 142.51E–.06 28–26 4.5b 75 1-145
NIED III 15 03 17 00 39.20N 142.40E 32 4.3W **¶16424503**
IDC III 15 03 17 21.4–.55 39.13N 142.38E 0 4.6L,4.4
JMA III 15 03 17 25.5–.20 39.20N 142.43E 23–3 4.5,4.4
ISCJB III 15 03 17 26.2–.76 39.15N–.03 142.44E–.06 46–6 4.3b,4.4
NEIC III 15 03 17 27.3–.84 39.09N 142.48E 42–8 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ26.00000°,λ-123.00000°. NP2:ϕ_s167.00000°,δ68.00000°,λ-75.00000°. $M_0$3.18000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=13.4km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.8km az=22.3.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.9km az=126.0.
ISC III 15 03 20 44.4–1.1 35.81N–.04 140.85E–.06 14–6 4.3b 51 0-148
NIED III 15 03 20 00 35.90N 140.90E 5 4.5W **¶16424504**
IDC III 15 03 20 42.0–.54 35.75N 140.81E 0 4.3,4.2
ISCJB III 15 03 20 43.5–.58 35.76N–.03 140.91E–.06 22–3 4.3b,4.0s
JMA III 15 03 20 43.9–.10 35.86N 140.92E 10–2 4.6,4.0s
NEIC III 15 03 20 46.6–1.8 35.77N 140.86E 29–12 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ43.00000°,λ-74.00000°. NP2:ϕ_s160.00000°,δ49.00000°,λ-104.00000°. $M_0$6.71000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=12.9km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.6km az=82.0.
ISC III 15 03 28 44.3–.74 36.21N–.05 141.25E–.07 31 3.6b 17 1-147
NIED III 15 03 28 00 36.20N 141.40E 8 4.0W **¶600546785**
ISCJB III 15 03 28 43.0–.61 36.18N–.04 141.34E–.06 31 3.6b
JMA III 15 03 28 42.7–.10 36.20N 141.38E 26–2 3.6
IDC III 15 03 28 50.2–3.4 36.49N 140.23E 99–33 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ68.00000°,λ174.00000°. NP2:ϕ_s113.00000°,δ84.00000°,λ22.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=6.3km az=5.7.
JMA Event type fe.
IDC Error ellipse: s-maj=41.6km s-min=19.0km az=107.0.
JMA III 15 03 38 35.3–.40 38.96N 142.61E 18–5 3.5
¶602662988

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 15 03 43 42.4–3.3 35.65N 141.86E 0 4.0,4.0s
¶17196011

IDC Error ellipse: s-maj=55.5km s-min=29.8km az=75.0.
JMA III 15 03 44 14.0–.20 38.74N 142.09E 36–2 3.7
¶602662984

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 03 45 59.7–.20 37.21N 141.57E 39–2 3.6
¶602662982

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 04 02 16.2–.40 39.34N 142.94E 11 3.6
¶602662963

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 15 04 16 31.1–.30 38.31N 141.87E 45–4 3.8
¶602662937

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 15 04 31 35.5–.70 36.26N–.07 141.87E–.08 23 4.0b 25 1-147
IDC III 15 04 31 31.7–.70 36.22N 141.82E 0 4.0,3.9 **¶600546855**
ISCJB III 15 04 31 33.1–.57 36.25N–.05 142.03E–.06 23 3.8b,3.9
JMA III 15 04 31 33.8–.50 36.31N 141.95E 81 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=15.3km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.3km az=37.1.
JMA Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.
JMA III 15 04 35 06.8–.30 38.38N 142.28E 24–3 3.7
¶603145367

JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 15 04 42 41.1 37.27N 141.11E 11–1 2.4
¶603145368
ISC III 15 04 55 40.3–.99 36.34N–.05 141.64E–.09 26 3.9b 17 1-64
IDC III 15 04 55 36.9–1.0 36.18N 141.72E 0 4.1,4.0 **¶602663446**
ISCJB III 15 04 55 38.3–.78 36.32N–.05 141.76E–.08 26 3.8b,3.1s
JMA III 15 04 55 41.1–.20 36.41N 141.52E 53–4 3.1,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=18.4km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.4km az=2.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 04 56 05.5–.10 36.73N 141.06E 20–1 4.4
NIED III 15 04 56 00 36.70N 141.10E 5 4.1W **¶16478108**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ53.00000°,λ-149.00000°. NP2:ϕ_s218.00000°,δ65.00000°,λ-41.00000°. $M_0$1.79000×10^{15}
ISC III 15 05 00 38.6–1.7 39.71N–.08 142.8E–.10 10 14 1-64
JMA III 15 05 00 40.6–.40 39.65N 142.75E 18–5 4.2 **¶602663444**
IDC III 15 05 00 54.8–12 36.88N 142.84E 0 4.0,3.9L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=273.2km s-min=46.6km az=26.0.
JMA III 15 05 01 22.0–.10 36.54N 140.84E 48–1 3.4
¶603049799

JMA Event type fe.
ISC III 15 05 04 59.5–.55 35.45N–.06 141.81E–.07 22 4.2b,3.3s 53 1-147
NIED III 15 05 04 00 35.50N 142.00E 20 4.4W,3.3s **¶16461786**
JMA III 15 05 04 56.6–.40 35.51N 142.03E 35–5 4.4,3.3s
IDC III 15 05 04 56.0–.63 35.47N 141.81E 0 4.3,4.2
ISCJB III 15 05 04 57.3–.41 35.42N–.04 141.89E–.05 22 4.2b,3.4s
NEIC III 15 05 05 01.3–.94 35.45N 141.78E 35–8 4.5b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ41.00000°,λ50.00000°. NP2:ϕ_s41.00000°,δ60.00000°,λ119.00000°. $M_0$4.36000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=14.7km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.8km az=155.8.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.3km az=88.0.
JMA III 15 05 05 27.2 36.75N 140.58E 3–1 3.7
NIED III 15 05 05 00 36.80N 140.60E 11 4.3W **¶600546891**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ30.00000°,λ-87.00000°. NP2:ϕ_s145.00000°,δ60.00000°,λ-92.00000°. $M_0$3.53000×10^{15}
JMA III 15 05 13 57.6–.20 37.79N 141.78E 23–3 3.8
¶603049800

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 05 28 38.3–.73 35.99N–.04 140.45E–.05 59–6 4.5b 75 0-148
NIED III 15 05 28 00 36.10N 140.40E 56 4.4W **¶602663374**
NEIC III 15 05 28 35.9–.49 36.00N 140.47E 35 4.8b
ISCJB III 15 05 28 37.6–.46 35.96N–.04 140.45E–.05 68–3 4.3b
JMA III 15 05 28 38.7–.10 36.02N 140.39E 54–1 3.9
IDC III 15 05 28 40.1–1.2 35.86N 140.30E 77–10 4.4,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ26.00000°,λ95.00000°. NP2:ϕ_s4.00000°,δ65.00000°,λ88.00000°. $M_0$4.89000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=10.2km az=117.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.7km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000°,δ77.00000°,λ85.00000°. NP2: ϕ_s223.00000°,δ14.00000°,λ111.00000°. Principal axes: T Plg58.0000°,Azm285.0000° ; N Plg5.0000°,Azm23.0000°; P Plg32.0000°,Azm116.0000°
IDC Error ellipse: s-maj=12.8km s-min=7.4km az=61.0.
JMA III 15 05 30 15.5–.10 36.91N 141.04E 28–1 3.0
¶602663369
JMA III 15 05 34 30.1–.10 37.32N 141.89E 25–3 3.5
¶602663365

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 05 37 52.4–.40 38.33N 142.02E 27–4 3.6
¶602663359

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 05 42 14.1–.92 37.65N–.08 141.99E–.07 24 3.9b 20 1-146
NIED III 15 05 42 00 37.70N 141.90E 11 4.0W **¶17196045**
IDC III 15 05 42 10.4–.85 37.62N 142.01E 0 4.2,4.0
ISCJB III 15 05 42 12.0–.74 37.63N–.07 142.06E–.07 24 3.9b,4.0
JMA III 15 05 42 13.8–.20 37.68N 141.91E 13–4 4.2,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ19.00000°,λ-107.00000°. NP2:ϕ_s337.00000°,δ72.00000°,λ-84.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=25.4km s-min=20.3km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.4km az=172.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 05 44 21.1–1.1 36.0N–.10 140.8E–.10 31 3.9b 12 0-148
IDC III 15 05 44 16.2–3.7 35.87N 140.70E 0 3.9,3.9 **¶602663349**
JMA III 15 05 44 21.1–.10 35.90N 140.84E 39–1 3.1,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=169.6km s-min=41.8km az=21.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 05 56 21.5–2.1 37.38N–.05 141.82E–.07 16–12 3.6b 23 1-77
IDC III 15 05 56 19.1–.96 37.40N 141.87E 0 3.9,3.7 **¶602663320**
ISCJB III 15 05 56 20.5–1.6 37.37N–.05 141.99E–.07 20–11 3.5b,3.4s
JMA III 15 05 56 21.3–.30 37.45N 141.89E 17–4 4.3,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=21.6km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.4km az=139.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 15 06 08 03.1–.30 36.21N 141.63E 62 3.5
¶602662902

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 15 06 21 15.9–1.9 39.89N–.05 142.51E–.06 9–11 3.9b 38 1-88
NIED III 15 06 21 00 39.90N 142.50E 11 4.1W **¶16461789**
JMA III 15 06 21 16.1–.20 39.85N 142.52E 14–3 4.4
NEIC III 15 06 21 19.9–.85 39.83N 142.68E 43–7 4.5b
IDC III 15 06 21 21.2–2.3 39.79N 142.59E 55–21 4.0,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ49.00000°,λ-147.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ-46.00000°. $M_0$1.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=11.4km s-min=6.0km az=121.0.
IDC Error ellipse: s-maj=18.0km s-min=13.3km az=103.0.
JMA III 15 06 37 58.4–.10 38.92N 142.52E 21–3 3.4
¶17196055

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 06 45 55.1–.30 37.87N 141.89E 27 3.6
¶602662854

JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 15 06 51 17.2–.92 35.25N–.06 141.1E–.10 35 3.5b 12 1-79
IDC III 15 06 51 12.2–1.0 35.19N 141.34E 0 3.8,3.5 **¶17196060**
JMA III 15 06 51 14.9–.10 35.24N 141.21E 32–3 3.3,3.5
ISCJB III 15 06 51 15.5–.79 35.23N–.06 141.2E–.10 35 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 06 56 27.4–.69 36.75N–.03 140.51E–.03 10–4 4.7b 457 0-147
NIED III 15 06 56 00 36.80N 140.60E 5 4.4W **¶602662829**
IDC III 15 06 56 25.7–.43 36.74N 140.45E 0 4.6,4.5
JMA III 15 06 56 26.6 36.76N 140.60E 0 4.7,4.5
ISCJB III 15 06 56 28.0–.48 36.77N–.02 140.50E–.03 21–3 4.6b,4.5
NEIC III 15 06 56 32.2–.47 36.81N 140.34E 39–4 4.7b,4.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ35.00000°,λ-82.00000°. NP2:ϕ_s197.00000°,δ56.00000°,λ-95.00000°. $M_0$4.70000×10^{15}
IDC Error ellipse: s-maj=12.0km s-min=11.2km az=95.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s11.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s218.00000°,δ46.00000°,λ-70.00000°. Principal axes: T Plg1.0000°,Azm114.0000°; N Plg14.0000°,Azm24.0000°; P Plg76.0000° ,Azm208.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.7km az=33.3.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.8km az=151.0.
ISC III 15 06 59 10.8–2.0 37.45N–.05 141.79E–.08 24–13 3.7b 32 1-146
IDC III 15 06 59 06.7–.74 37.56N 142.11E 0 4.0,3.9 **¶17196064**
ISCJB III 15 06 59 11.4–1.2 37.41N–.04 141.75E–.09 42–11 3.8b,3.9
JMA III 15 06 59 14.6–.10 37.44N 141.49E 40–2 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=18.4km s-min=18.0km az=18.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.8km az=174.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 07 03 44.1–.92 36.76N–.03 140.51E–.04 4–5 4.9b,4.0s 302 0-158
NIED III 15 07 03 00 36.70N 140.60E 5 4.8W,4.0s **¶600547095**
ISCJB III 15 07 03 43.8–.66 36.76N–.02 140.41E–.03 7–4 4.8b,4.2s
IDC III 15 07 03 43.3–.40 36.73N 140.52E 0 4.7,4.6
JMA III 15 07 03 44.2–.30 36.75N 140.59E 0–3 4.9,4.6
NEIC III 15 07 03 49.3–1.1 36.79N 140.35E 35–8 4.9b,4.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ41.00000°,λ-93.00000°. NP2:ϕ_s193.00000°,δ49.00000°,λ-87.00000°. $M_0$1.52000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=38.2.
IDC Error ellipse: s-maj=11.4km s-min=10.5km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=140.0. Recorded [3 JMA] in Ibaraki.
ISC III 15 07 06 37.7–1.2 36.75N–.04 140.55E–.06 7–8 3.6b 17 0-91
IDC III 15 07 06 36.8–.97 36.69N 140.53E 0 4.0,3.6 **¶602662815**
ISCJB III 15 07 06 37.0–.78 36.70N–.05 140.67E–.07 10–5 3.5b,3.6
JMA III 15 07 06 37.7 36.74N 140.58E 4–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.6km az=173.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.7km az=35.1.
JMA Event type fe.
ISC III 15 07 08 28.1–.34 38.31N–.04 142.39E–.04 28–1 5.0b,4.6s 864 1-156
NIED III 15 07 08 00 38.40N 142.30E 38 4.9W,4.6s **¶16314761**
BJI III 15 07 08 24.3 38.26N 142.46E 25 4.9b,4.8b
JMA III 15 07 08 28.9–.30 38.35N 142.30E 30–4 4.9,4.8b
ISCJB III 15 07 08 29.2–.53 38.37N–.03 142.23E–.03 43–4 4.9b,4.4s
IDC III 15 07 08 29.7–.45 38.30N 142.27E 37–2 4.9,4.7
MOS III 15 07 08 29.3–.79 38.61N 142.20E 35 5.2b,4.6s
NEIC III 15 07 08 30.9–.40 38.34N 142.20E 44–3 4.9b,4.6s
GCMT III 15 07 08 30.9–.40 38.39N 142.23E 34–3 5.0W,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ16.00000°,λ36.00000°. NP2:ϕ_s71.00000°,δ81.00000°,λ103.00000°. $M_0$2.15000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=165.3.
IDC Error ellipse: s-maj=10.2km s-min=9.8km az=100.0.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=98.6.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=149.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c15; s68,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.09±.22 $M_{\theta\theta}$-0.58±.13; $M_{\phi\phi}$-0.50±.14; $M_{r\theta}$3.00±.41; $M_{\theta\phi}$-0.84±.08; $M_{\phi r}$0.97±.16; Best double couple: NP1:ϕ_s70.00000°,δ80.00000° ,λ101.00000°. NP2:ϕ_s201.00000°,δ14.00000°,λ42.00000°. Principal axes: T 3.3880,Plg53.0000°,Azm353.0000°; N 0.0220,Plg11.0000°,Azm248.0000° ; P -3.4070,Plg35.0000°,Azm151.0000° $M_0$3.39800×10^{16}
ISC III 15 07 20 49.7–1.7 36.27N–.05 140.97E–.07 16–11 3.6b 18 0-56
IDC III 15 07 20 44.9–2.5 36.28N 141.54E 0 4.5,4.5s **¶17196071**
JMA III 15 07 20 51.7–.10 36.29N 141.02E 45–1 3.4,4.5s
ISC Event type ke.
IDC Error ellipse: s-maj=72.9km s-min=27.0km az=62.0.
JMA Event type fe.
ISC III 15 07 30 29.4–1.3 38.44N–.08 142.4E–.10 24 4.0b 14 1-68
IDC III 15 07 30 23.9–1.7 38.51N 143.14E 0 3.9,3.9b **¶17196074**
ISCJB III 15 07 30 27.3–1.0 38.33N–.07 142.6E–.10 24 4.0b,3.9b
JMA III 15 07 30 31.2–.20 38.48N 142.29E 31–3 3.8,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=51.6km s-min=24.6km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=9.4km az=34.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 07 37 21.4–.10 36.54N 141.08E 44–1 3.5
¶602662753

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 07 48 26.9–.49 37.18N–.04 141.32E–.06 22–4 4.4b 118 0-147
NIED III 15 07 48 00 37.10N 141.40E 11 4.2W **¶602443556**
JMA III 15 07 48 26.7–.10 37.23N 141.34E 28–1 4.4
IDC III 15 07 48 26.8–.48 37.18N 141.32E 21–2 4.2,4.1L
ISCJB III 15 07 48 27.7–.64 37.15N–.03 141.29E–.06 40–6 4.4b,4.1L
NEIC III 15 07 48 30.7–.65 37.16N 141.22E 52–6 4.6b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ34.00000°,λ-68.00000°. NP2:ϕ_s197.00000°,δ59.00000°,λ-104.00000°. $M_0$1.95000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=11.4km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.1km az=12.6.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=130.0. Recorded [3 JMA] in Fukushima.
JMA III 15 08 06 06.8–.30 38.44N 142.14E 27–3 3.5
¶602662700

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 08 08 55.4–1.1 39.09N–.09 142.32E–.08 27 4.0b 12 1-63
IDC III 15 08 08 53.8–1.0 38.23N 144.61E 0 4.0,3.7 **¶17196081**
ISCJB III 15 08 08 54.7–1.1 39.19N–.08 142.45E–.08 27 3.8b,3.7
JMA III 15 08 08 55.0–.20 39.15N 142.39E 22–2 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=46.4km s-min=23.1km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.7km az=172.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 08 23 09.9–2.5 39.56N–.09 142.62E–.09 4–13 3.4b 17 1-47
IDC III 15 08 23 03.6–3.3 38.67N 142.84E 0 3.6,3.6b **¶600547255**
ISCJB III 15 08 23 10.6–1.7 39.54N–.08 142.67E–.08 16–9 3.4b,3.6b
JMA III 15 08 23 12.3–.20 39.56N 142.54E 13–3 4.1,3.6b
ISC Event type ke.

IDC Error ellipse: s-maj=73.3km s-min=27.1km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=10.6km az=167.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 08 35 15.1–.30 39.23N 142.45E 24–3 3.6
¶602662612

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 08 38 46.9–2.1 36.57N–.06 141.84E–.09 13–12 3.9b 17 1-60
IDC III 15 08 38 44.1–1.8 36.61N 142.18E 0 4.0,3.9 **¶17196089**
JMA III 15 08 38 49.3–.20 36.62N 141.81E 39–4 3.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=49.1km s-min=27.2km az=79.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 08 39 52.9–.10 37.43N 141.32E 35–1 3.7
¶603049804

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 08 42 11.2–2.7 39.15N–.08 142.96E–.10 2–16 3.7b 16 1-47
ISCJB III 15 08 42 11.9–2.6 39.3N–.10 143.08E–.08 9–18 3.5b **¶17196091**
JMA III 15 08 42 12.3–.30 39.32N 142.99E 1–4 4.0
IDC III 15 08 42 16.2–2.7 39.92N 142.82E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.4km s-min=9.9km az=0.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=62.1km s-min=27.6km az=143.0.
ISC III 15 08 45 31.0–.42 35.96N–.04 141.40E–.06 26 4.4b 91 1-147
NIED III 15 08 45 00 36.00N 141.50E 26 4.2W **¶602662594**
ISCJB III 15 08 45 29.3–.27 35.94N–.03 141.51E–.04 26 4.4b
JMA III 15 08 45 30.7–.10 35.98N 141.46E 38–2 4.1
IDC III 15 08 45 32.7–.64 35.86N 141.40E 41–6 4.2,4.1
NEIC III 15 08 45 33.5–.61 35.86N 141.44E 50–5 4.8b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ31.00000°,λ-89.00000°. NP2:ϕ_s84.00000°,δ59.00000°,λ-91.00000°. $M_0$2.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.2km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.3km s-min=8.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.3km az=156.0.
JMA III 15 08 48 04.0–.40 39.24N 142.92E 4 4.2
¶603049806

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 15 08 56 31.1–.10 36.65N 141.01E 45–2 3.8
¶602663302

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 08 56 39.6–.48 39.48N–.06 142.54E–.05 29 4.5b 92 1-145
IDC III 15 08 56 34.6–.71 39.44N 142.57E 0 4.5,4.2 **¶16424513**
JMA III 15 08 56 37.9–.20 39.57N 142.62E 10–3 4.5,4.2
ISCJB III 15 08 56 38.3–.26 39.48N–.04 142.60E–.04 29 4.5b,3.4s
NEIC III 15 08 56 41.9–.69 39.47N 142.58E 47–7 4.6b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=16.7km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.0km az=166.7.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.2km az=127.0.
JMA III 15 08 59 33.3–.10 36.05N 141.59E 51–4 3.5
¶602663300

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 09 03 52.7–.20 38.44N 142.27E 28–3 3.8
¶602663295

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 09 15 58.7–2.0 35.69N–.04 141.76E–.06 16–12 4.5b,3.6s 109 1-147
NIED III 15 09 15 00 35.80N 141.80E 5 4.7W,3.6s **¶16318247**
IDC III 15 09 15 56.0–.43 35.67N 141.81E 0 4.4,4.3
JMA III 15 09 15 59.0–.30 35.78N 141.83E 42–4 4.5,4.3
ISCJB III 15 09 15 59.8–.72 35.68N–.03 141.76E–.05 34–6 4.5b,3.5s
NEIC III 15 09 16 01.4–.29 35.65N 141.79E 35 4.7b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ10.00000°,λ-50.00000°. NP2:ϕ_s253.00000°,δ83.00000°,λ-96.00000°. $M_0$1.08000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=10.2km az=93.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=1.3.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.3km az=135.0.
JMA III 15 09 22 17.5–.20 37.69N 141.82E 19–3 3.8
¶602663250

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 09 22 50.7–1.7 39.69N–.06 142.3E–.10 18–6 3.9b 18 1-73
IDC III 15 09 22 47.0–2.0 39.70N 142.49E 0 3.9,3.8 **¶17196104**
JMA III 15 09 22 55.4–.10 39.70N 142.17E 42–2 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=75.0km s-min=26.9km az=69.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 15 09 27 22.6–3.1 36.73N 141.71E 0 4.6,4.6s
¶17196105

IDC Error ellipse: s-maj=102.2km s-min=24.9km az=70.0.
ISC III 15 09 39 30.7–1.1 36.88N–.05 141.11E–.08 44–10 3.6b 24 0-90
ISCJB III 15 09 39 29.8–.79 36.83N–.05 141.16E–.08 51–6 3.6b **¶17196107**
JMA III 15 09 39 31.0–.10 36.88N 141.06E 49–1 3.6
IDC III 15 09 39 34.6–2.4 36.75N 140.88E 87–23 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.4km az=15.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.0km s-min=16.2km az=91.0.
ISC III 15 09 41 03.2–.99 35.82N–.04 140.89E–.06 10–6 4.1b 33 0-148
NIED III 15 09 41 00 35.90N 141.00E 5 4.1W **¶16322648**
IDC III 15 09 41 01.2–.65 35.67N 141.03E 0 4.1,4.0
ISCJB III 15 09 41 01.5–.91 35.80N–.04 141.04E–.05 12–5 4.0b,4.0
JMA III 15 09 41 02.6–.10 35.84N 140.93E 9–2 4.3,4.0
NEIC III 15 09 41 06.4–.52 35.74N 140.92E 35 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ33.00000°,λ-56.00000°. NP2:ϕ_s160.00000°,δ63.00000°,λ-110.00000°. $M_0$1.80000×10^{15}
IDC Error ellipse: s-maj=19.9km s-min=16.9km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.7km az=3.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=11.4km az=114.0. Recorded [3 JMA] in Ibaraki.
JMA III 15 09 46 43.3 36.95N 140.59E 6–1 2.7
¶600547443

JMA III 15 10 04 08.8–.20 38.34N 142.25E 21–2 3.8
¶602663175

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 10 06 52.0–1.0 38.71N–.05 142.20E–.09 41 3.8b 19 1-63
ISCJB III 15 10 06 50.7–.82 38.74N–.05 142.25E–.09 41 3.8b **¶17196116**
JMA III 15 10 06 53.8–.10 38.84N 142.01E 48–2 3.6
IDC III 15 10 06 57.1–3.6 38.75N 142.00E 80–31 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.4km az=5.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=18.3km az=79.0.
ISC III 15 10 12 36.3–2.3 37.1N–.10 141.0E–.10 30–8 10 0-44
IDC III 15 10 12 18.7–10 36.33N 142.78E 0 3.5,3.5b **¶600547468**
JMA III 15 10 12 35.9–.10 37.25N 141.14E 14–1 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=187.5km s-min=83.9km az=143.0.
ISC III 15 10 31 28.8–.69 35.82N–.04 140.71E–.05 50–6 4.7b 169 0-148
NIED III 15 10 31 00 35.80N 140.70E 53 4.6W **¶600547487**
ISCJB III 15 10 31 27.9–.36 35.81N–.03 140.72E–.04 59–3 4.6b
MOS III 15 10 31 28.3–1.1 35.94N 140.73E 60 5.1b
NEIC III 15 10 31 28.5–.75 35.84N 140.65E 44–7 4.8b
JMA III 15 10 31 29.1–.10 35.86N 140.62E 47–1 4.5
IDC III 15 10 31 30.2–1.9 35.82N 140.54E 60–17 4.5,4.3
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ18.00000°,λ117.00000°. NP2:ϕ_s356.00000°,δ74.00000°,λ81.00000°. $M_0$1.00000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=179.7.

MOS Error ellipse: s-maj=8.4km s-min=5.2km az=111.9.

NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=101.0. Recorded [3 JMA] in Ibaraki.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ88.00000°,λ-83.00000°. NP2: ϕ_s287.00000°,δ7.00000°,λ-168.00000°. Principal axes: T Plg43.0000°,Azm268.0000° ; N Plg7.0000°,Azm5.0000°; P Plg46.0000°,Azm102.0000°

IDC Error ellipse: s-maj=13.5km s-min=9.2km az=90.0.

JMA III 15 10 33 07.1–.10 36.66N 140.97E 47–1 3.7 ¶602662569

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 15 10 45 55.0–4.3 36.6N–.80 140.9E–.20 32 3.5b 8 0-64

JMA III 15 10 45 40.6–.10 36.55N 141.49E 63–2 2.8 ¶602662545

IDC III 15 10 45 51.3–2.8 36.80N 140.96E 0 3.7,3.6b

ISCJB III 15 10 45 54.2–2.8 36.8N–.50 140.9E–.20 32 3.5b,3.6b

ISC Event type ke.

ISCJB Event type ke.

JMA III 15 10 49 11.1–.10 35.78N 140.85E 17–1 2.7 ¶602662536

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 15 10 49 57.5–.72 35.64N–.03 141.99E–.03 14–4 5.1b,5.0s 444 1-152

NIED III 15 10 49 00 35.70N 142.20E 8 5.1W,5.0s ¶600547520

IDC III 15 10 49 55.2–.39 35.58N 141.98E 0 4.6,4.6

JMA III 15 10 49 56.3–.30 35.67N 142.21E 35 5.1,4.6

BJI III 15 10 49 56.4 35.74N 141.79E 14 5.4b,5.3s

ISCJB III 15 10 49 57.9–.89 35.54N–.02 141.89E–.03 25–6 4.9b,4.9s

MOS III 15 10 49 58.8–1.0 35.58N 141.90E 33 5.2b,4.9s

NEIC III 15 10 50 01.1–.16 35.58N 141.88E 35 5.1b,4.9s

GCMT III 15 10 50 01.0–.30 35.47N 142.19E 17–1 5.2W,4.9s

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ38.00000°,λ45.00000°. NP2:ϕ_s53.00000°,δ64.00000°,λ119.00000°. $M_0$4.57000×10^{16}

IDC Error ellipse: s-maj=12.2km s-min=9.1km az=94.0.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=147.9.

MOS Error ellipse: s-maj=6.9km s-min=4.6km az=116.2.

NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=146.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s95,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.25±.27 $M_{\theta\theta}$-1.12±.15; $M_{\phi\phi}$-3.13±.17; $M_{r\theta}$3.61±.50; $M_{\theta\phi}$-1.83±.08; $M_{\phi r}$4.60±.51; Best double couple: NP1:ϕ_s37.00000°,δ72.00000° ,λ94.00000°. NP2:ϕ_s205.00000°,δ18.00000°,λ79.00000°. Principal axes: T 7.2600,Plg63.0000°,Azm312.0000°; N -0.0840,Plg3.0000°,Azm216.0000° ; P -7.1760,Plg27.0000°,Azm124.0000° $M_0$7.21800×10^{16}

ISC III 15 11 19 07.2–1.3 37.24N–.06 141.88E–.09 19 3.5b 14 1-61

IDC III 15 11 19 01.5–2.2 37.37N 142.60E 0 3.6,3.5 ¶17196123

ISCJB III 15 11 19 04.7–.99 37.22N–.05 142.08E–.08 19 3.5b,3.5

JMA III 15 11 19 08.9–.30 37.27N 141.87E 31–4 3.5,3.5

ISC Event type ke.

IDC Error ellipse: s-maj=55.6km s-min=24.6km az=66.0.

ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.3km az=158.0.

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

JMA III 15 11 29 02.0–.20 35.72N 140.82E 29–2 3.6

NIED III 15 11 29 00 35.70N 140.80E 44 4.2W ¶16478214

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ47.00000°,λ153.00000°. NP2:ϕ_s9.00000°,δ70.00000°,λ46.00000°. $M_0$2.01000×10^{15}

JMA III 15 11 30 42.4–.20 38.44N 142.09E 33–3 4.0 ¶602662291

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 15 11 37 59.1–1.2 36.79N–.03 140.53E–.05 4–10 3.5b 18 0-60

ISCJB III 15 11 37 58.6–.68 36.77N–.04 140.65E–.07 13–5 3.5b ¶17196126

IDC III 15 11 37 58.9–1.3 36.68N 140.59E 0 3.7,3.4

JMA III 15 11 37 59.1 36.79N 140.56E 6–1 3.2,3.4

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.4km az=20.7.

IDC Error ellipse: s-maj=27.8km s-min=23.2km az=123.0.

JMA Event type fe.

JMA III 15 11 55 50.0–.10 36.50N 141.08E 25–2 3.4 ¶603049811

ISC III 15 11 57 30.2–.94 38.60N–.08 142.5E–.10 37–3 3.7b 29 1-145

IDC III 15 11 57 24.6–.69 38.63N 142.63E 0 3.9,3.8 ¶17196133

ISCJB III 15 11 57 30.3–1.4 38.61N–.06 142.4E–.10 54–11 3.8b,3.8

JMA III 15 11 57 31.4–.10 38.65N 142.34E 35–2 4.5,3.8

ISC Event type ke.

IDC Error ellipse: s-maj=18.7km s-min=17.2km az=70.0.

ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=9.9km az=13.2.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 15 12 09 31.3–2.4 39.38N–.06 142.63E–.08 2–13 3.8b 27 1-73

IDC III 15 12 09 30.8–.85 39.27N 142.63E 0 3.8,3.7 ¶17196135

ISCJB III 15 12 09 31.4–1.6 39.34N–.06 142.70E–.08 15–10 3.7b,3.7

JMA III 15 12 09 34.4–.10 39.47N 142.53E 9–2 4.4,3.7

ISC Event type ke.

IDC Error ellipse: s-maj=23.2km s-min=17.5km az=105.0.

ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=9.5km az=151.6.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 15 12 25 36.6–1.2 35.98N–.07 141.9E–.10 23 3.6b 13 1-56

ISCJB III 15 12 25 34.5–.99 36.05N–.06 142.02E–.09 23 3.8b ¶600547665

IDC III 15 12 25 34.6–1.8 36.01N 141.53E 0 3.9,3.9b

JMA III 15 12 25 36.2–.30 36.16N 141.98E 51 3.3,3.9b

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.9km az=23.8.

IDC Error ellipse: s-maj=43.0km s-min=20.5km az=84.0.

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC III 15 12 27 25.8–1.9 35.9N–.10 141.4E–.10 26 9 0-60

ISCJB III 15 12 27 23.3–1.3 36.0N–.10 141.6E–.10 26 3.4b ¶17196140

JMA III 15 12 27 25.9–.20 35.95N 141.47E 40–3 3.1

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=11.8km az=16.6.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 15 12 27 30.0–2.9 39.59N–.10 142.68E–.10 1–17 3.6b 17 1-75

IDC III 15 12 27 13.4–.84 36.86N 143.36E 0 3.6,3.5 ¶602662214

JMA III 15 12 27 31.5–.30 39.50N 142.64E 12–4 3.6,3.5

ISC Event type ke.

IDC Error ellipse: s-maj=24.2km s-min=21.0km az=93.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 15 12 33 10.1–.32 38.96N–.04 142.71E–.05 27 4.8b,4.0s 544 1-154

NIED III 15 12 33 00 39.00N 142.70E 8 4.6W,4.0s ¶602662212

IDC III 15 12 33 04.8–.47 38.69N 142.66E 0 4.6,4.5

MOS III 15 12 33 08.7–.92 38.99N 142.53E 25 4.9b,4.5

JMA III 15 12 33 08.4–.30 39.01N 142.66E 19–3 4.8,4.5

ISCJB III 15 12 33 09.0–.14 38.98N–.03 142.60E–.02 27 4.7b,4.1s

NEIC III 15 12 33 11.2–1.3 38.98N 142.60E 30–9 4.9b,4.1s

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ47.00000°,λ-67.00000°. NP2:ϕ_s268.00000°,δ48.00000°,λ-113.00000°. $M_0$9.31000×10^{15}

IDC Error ellipse: s-maj=12.8km s-min=11.0km az=139.0.

MOS Error ellipse: s-maj=7.5km s-min=5.1km az=105.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=167.3.

NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=136.0.

JMA III 15 12 43 38.7–.10 37.79N 141.70E 49–3 2.7 ¶603049812

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 15 12 53 24.8–.20 37.04N 141.58E 44–2 3.9 ¶602661972

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 15 12 53 51.1–.73 39.16N–.06 142.32E–.07 27 4.0b 32 1-88

IDC III 15 12 53 46.7–.74 39.09N 142.40E 0 4.1,3.9 ¶16478237

ISCJB III 15 12 53 49.0–.48 39.08N–.04 142.36E–.06 27 3.9b,3.9

JMA III 15 12 53 50.9–.20 39.30N 142.40E 20–2 4.2,3.9

NEIC III 15 12 53 51.9–.45 39.10N 142.28E 35 4.1b,3.9

ISC Event type se.

IDC Error ellipse: s-maj=23.7km s-min=16.9km az=122.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=6.2km az=27.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.1km az=129.0.

JMA III 15 13 01 54.5–.30 38.21N 142.28E 28–5 3.7 ¶602661961

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 15 13 10 48.2–.59 36.65N–.04 140.90E–.06 53–5 4.3b 73 0-147

NIED III 15 13 10 00 36.60N 141.00E 56 4.1W ¶16318257

ISCJB III 15 13 10 46.6–.51 36.65N–.03 140.96E–.05 56–3 4.9s,4.2b

JMA III 15 13 10 47.1–.10 36.63N 140.95E 49–1 4.2,4.2b

NEIC III 15 13 10 48.9–.70 36.67N 140.87E 61–6 4.5b,4.2b

IDC III 15 13 10 48.8–.62 36.64N 140.94E 61–5 4.2,4.1

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ23.00000°,λ95.00000°. NP2:ϕ_s18.00000°,δ67.00000°,λ88.00000°. $M_0$1.71000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=22.5.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.6km az=108.0. Recorded [3 JMA] in Ibaraki.

IDC Error ellipse: s-maj=9.2km s-min=7.6km az=131.0.

ISC III 15 13 15 21.9–2.5 37.3N–.10 141.4E–.20 35 3.5b 7 1-57

IDC III 15 13 15 07.3–7.3 37.12N 142.97E 0 3.8,3.6 ¶17196148

JMA III 15 13 15 22.6–.20 37.28N 141.28E 45–2 2.1,3.6

ISC Event type ke.

IDC Error ellipse: s-maj=247.0km s-min=30.2km az=65.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 15 13 22 09.7–.10 36.83N 141.15E 41–2 2.1 ¶602661930

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 15 13 22 26.6–1.7 35.8N–.10 140.9E–.10 28–7 10 0-59

IDC III 15 13 22 12.1–1.1 37.03N 142.24E 0 3.7,3.5b ¶602661928

JMA III 15 13 22 27.4–.20 35.70N 140.83E 27–1 3.0,3.5b

ISC Event type ke.

IDC Error ellipse: s-maj=45.3km s-min=22.7km az=111.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 15 13 22 34.6–.40 39.51N 142.72E 5 3.6 ¶602661925

JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

JMA III 15 13 27 26.2–.10 36.01N 141.20E 29–2 2.7 ¶602661901

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 15 13 51 16.0–2.3 37.42N–.05 141.32E–.08 3–14 3.8b 21 1-90

ISCJB III 15 13 51 15.6–1.4 37.48N–.04 141.47E–.06 7–9 3.8b ¶602661833

JMA III 15 13 51 17.7–.10 37.49N 141.33E 14–2 3.7

IDC III 15 13 51 22.3–3.5 37.45N 141.32E 47–35 3.8,3.8

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.9km az=24.1.

IDC Error ellipse: s-maj=27.9km s-min=21.1km az=113.0.

JMA III 15 13 55 17.8–.20 37.31N 141.27E 37–1 3.3 ¶603049814

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 15 14 15 15.5–.86 37.15N–.09 141.50E–.08 35 3.8b 20 1-147

IDC III 15 14 15 25.4–5.1 38.34N 141.83E 68–47 3.7,3.7 ¶17196163

JMA III 15 14 15 25.3 37.06N 140.74E 9–1 3.1,3.7

ISC Event type ke.

IDC Error ellipse: s-maj=25.5km s-min=17.5km az=115.0.

JMA Event type fe.

JMA III 15 14 16 28.9–.10 36.84N 141.11E 28–1 3.6 ¶602661709

JMA III 15 14 24 45.6–.40 39.71N 142.71E 17–5 4.0 ¶602661682

JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC III 15 14 35 01.9–1.1 36.33N–.06 141.56E–.10 26 3.4b 13 1-56

IDC III 15 14 34 58.2–1.3 36.40N 141.74E 0 3.5,3.4 ¶602661646

ISCJB III 15 14 35 00.1–.96 36.30N–.06 141.65E–.08 26 3.4b,3.4

JMA III 15 14 35 01.6–.10 36.37N 141.58E 49–4 3.3,3.4

ISC Event type ke.

IDC Error ellipse: s-maj=30.7km s-min=24.1km az=95.0.

ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.2km az=153.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 15 14 40 37.6–1.3 39.56N–.05 142.69E–.05 32–8 4.6b 97 1-149

JMA III 15 14 40 33.9–.40 39.60N 142.76E 9 4.5 ¶602661624

IDC III 15 14 40 37.5–3.6 39.54N 142.69E 33–27 4.4,4.3

ISCJB III 15 14 40 37.0–.80 39.60N–.05 142.66E–.06 38–6 4.4b,4.3

NEIC III 15 14 40 38.9–.66 39.62N 142.63E 39–6 4.6b,4.3

ISC Event type ke.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

IDC Error ellipse: s-maj=14.1km s-min=12.3km az=128.0.

ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=6.0km az=139.4.

NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.0km az=136.0.

JMA III 15 14 55 58.5 36.48N 140.90E 17–1 3.6 ¶602661574

JMA Event type fe.

IDC III 15 14 57 44.5–7.7 39.26N 142.49E 0 3.9,3.7 ¶17196168

IDC Error ellipse: s-maj=269.4km s-min=25.5km az=62.0.

JMA III 15 15 00 37.2–.20 39.17N 142.39E 27–3 3.9 ¶602661388

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 15 15 06 47.2–1.3 36.57N–.05 141.16E–.05 20–5 3.8b 60 0-147

NIED III 15 15 06 00 36.60N 141.20E 8 4.2W ¶16424527

IDC III 15 15 06 44.2–.58 36.55N 141.12E 0 4.0,3.9

ISCJB III 15 15 06 46.4–.91 36.55N–.04 141.18E–.05 27–5 3.7b,3.9

JMA III 15 15 06 47.0–.10 36.62N 141.16E 35–1 4.3,3.9

NEIC III 15 15 06 48.2–.76 36.59N 141.12E 25–5 4.2b,3.9

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ41.00000°,λ-88.00000°. NP2:ϕ_s199.00000°,δ50.00000°,λ-92.00000°. $M_0$2.20000×10^{15}

IDC Error ellipse: s-maj=17.0km s-min=14.6km az=104.0.

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.7km az=31.1.

JMA Event type fe.

NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=143.0.

JMA III 15 15 18 39.5–.10 38.48N 142.01E 43–2 3.7 ¶602661370

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA III 15 15 38 05.2–.20 38.22N 141.89E 42 3.6 ¶602661357

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 15 15 47 33.1–1.9 35.8N–.10 141.2E–.10 10 8 0-45

JMA III 15 15 47 35.5–.30 35.80N 141.04E 21–2 3.0 ¶17196175

IDC III 15 15 47 37.4–8.8 36.17N 140.67E 0 3.3,3.3

ISC Event type ke.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=148.7km s-min=78.9km az=149.0.

ISC III 15 15 53 59.0–.84 36.51N–.06 140.81E–.08 32 3.4b 14 0-60

IDC III 15 15 53 55.5–1.1 36.32N 141.06E 0 3.8,3.6 ¶17196177

JMA III 15 15 53 56.8–.10 36.53N 141.05E 23–1 3.9,3.6

ISCJB III 15 15 53 57.5–.76 36.53N–.04 140.98E–.08 32 3.6b,3.6

ISC Event type ke.

JMA Event type fe.

ISCJB Event type fe.

ISC III 15 16 03 39.7–1.3 37.26N–.06 141.34E–.09 52–11 4.0b 66 0-82

IDC III 15 16 03 32.6–.83 37.22N 141.18E 0 4.2,4.0 ¶16424532

ISCJB III 15 16 03 38.9–.70 37.23N–.04 141.34E–.07 64–5 4.0b,4.0

NEIC III 15 16 03 38.4–.44 37.36N 141.28E 35 4.4b,4.0

JMA III 15 16 03 40.5–.20 37.30N 141.24E 51–1 3.9,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=17.9km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.0km az=177.4.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.6km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 16 22 59.5–1.1 36.74N–.03 140.52E–.05 8–7 4.6b 107 0-152
NIED III 15 16 22 00 36.70N 140.60E 5 4.4W **¶16327702**
IDC III 15 16 22 58.2–.60 36.75N 140.50E 0 4.5,4.3
ISCJB III 15 16 22 58.9–.62 36.80N–.03 140.38E–.04 9–4 4.5b,4.3
JMA III 15 16 22 59.3–.20 36.74N 140.59E 0–2 4.5,4.3
NEIC III 15 16 23 04.8–.70 36.89N 140.34E 38–6 4.7b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ36.00000°,λ-113.00000°. NP2:ϕ_s216.00000°,δ57.00000°,λ-74.00000°. $M_0$3.95000×10^{15}
IDC Error ellipse: s-maj=16.2km s-min=10.1km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=36.7.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=157.0.
ISC III 15 16 26 01.5–1.4 36.76N–.06 140.61E–.05 4–10 3.7b 25 0-91
IDC III 15 16 26 00.4–.83 36.60N 140.59E 0 3.9,3.6 **¶17196183**
ISCJB III 15 16 26 01.3–.68 36.69N–.04 140.67E–.06 12–4 3.5b,3.6
JMA III 15 16 26 02.0 36.73N 140.58E 3–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=13.0km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=27.3.
JMA Event type fe.
JMA III 15 16 40 02.2–.20 39.06N 142.40E 21–2 3.5
¶602661245
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 16 41 12.3–.52 38.00N–.05 142.05E–.06 30 4.1b 76 1-146
ISCJB III 15 16 41 10.6–.35 38.02N–.03 142.16E–.04 30 4.1b **¶16427609**
JMA III 15 16 41 12.8–.20 38.03N 142.01E 37 4.4
NEIC III 15 16 41 14.8–.63 38.07N 142.08E 52–5 4.4b
IDC III 15 16 41 15.0–2.4 38.02N 141.99E 54–22 4.1,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.4km az=43.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=126.0.
IDC Error ellipse: s-maj=16.5km s-min=12.2km az=102.0.
ISC III 15 16 47 12.1–2.1 36.91N–.06 141.3E–.10 32–11 3.2b 19 0-57
IDC III 15 16 47 05.8–2.2 36.91N 141.65E 0 3.7,3.7s **¶600548285**
ISCJB III 15 16 47 11.9–1.4 36.89N–.05 141.3E–.10 47–9 3.3b,3.7s
JMA III 15 16 47 13.4–.10 36.91N 141.20E 45–1 3.5,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=44.3km s-min=32.3km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=8.9km az=178.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 17 07 50.2–.20 38.32N 141.84E 49–4 3.1
¶17196195
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 15 17 07 51.5–1.6 39.8N–.20 143.0E–.20 12 3.5b 8 4-60
IDC III 15 17 07 49.6–1.7 39.76N 143.07E 0 4.6s,4.6 **¶603049818**
ISCJB III 15 17 07 49.3–1.3 39.7N–.10 143.1E–.20 12 3.4b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 17 12 07.6–1.5 36.01N–.08 141.1E–.10 31 3.4b 9 0-60
IDC III 15 17 12 01.6–13 36.09N 141.56E 0 3.5,3.4 **¶602662149**
ISCJB III 15 17 12 05.2–1.2 36.06N–.07 141.2E–.10 31 3.3b,3.4
JMA III 15 17 12 06.9–.10 36.03N 141.13E 39–2 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=488.8km s-min=27.9km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=8.4km az=156.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 17 12 47.2–.40 36.16N 141.84E 22 3.5
¶600548341
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 15 17 25 05.4–1.0 38.88N–.07 142.0E–.10 51 3.7b 17 1-73
ISCJB III 15 17 25 03.8–.83 38.86N–.05 142.1E–.10 51 3.7b **¶17196201**
JMA III 15 17 25 05.6–.10 38.90N 141.92E 52–2 3.6
IDC III 15 17 25 09.1–3.3 38.81N 141.89E 87–29 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.2km az=1.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=22.9km az=101.0.
JMA III 15 17 31 26.1–.10 35.98N 141.07E 17–3 3.5
¶602662125
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 17 40 27.7–.20 36.37N 141.76E 31 2.5
¶602662114
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 17 40 54.5–.96 35.60N–.04 141.01E–.05 24–6 4.5b 101 0-148
NIED III 15 17 40 00 35.70N 141.10E 26 4.4W **¶600548371**
JMA III 15 17 40 54.7–.20 35.63N 140.99E 26–1 4.0
ISCJB III 15 17 40 54.5–.55 35.59N–.03 141.01E–.05 36–4 4.4b,4.0s
NEIC III 15 17 40 56.5–.75 35.52N 140.92E 40–7 4.6b,4.0s
IDC III 15 17 40 57.8–1.4 35.57N 140.84E 46–14 4.2,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ27.00000°,λ169.00000°. NP2:ϕ_s23.00000°,δ85.00000°,λ64.00000°. $M_0$3.97000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s69.00000°,δ62.00000°,λ97.00000°. NP2: ϕ_s235.00000°,δ29.00000°,λ77.00000°. Principal axes: T Plg72.0000°,Azm355.0000° ; N Plg6.0000°,Azm246.0000°; P Plg17.0000°,Azm154.0000°
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=5.8.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.5km az=90.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=14.9km s-min=9.1km az=91.0.
JMA III 15 17 42 40.6–.10 35.61N 140.98E 28–1 3.5
NIED III 15 17 42 00 35.60N 141.00E 14 3.8W **¶600548375**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ26.00000°,λ173.00000°. NP2:ϕ_s19.00000°,δ87.00000°,λ64.00000°. $M_0$6.17000×10^{14}
ISC III 15 17 48 09.4–2.4 39.06N–.07 142.3E–.20 49–22 3.3b 16 1-59
JMA III 15 17 48 04.8–.60 39.02N 142.41E 1 3.9 **¶17196205**
ISCJB III 15 17 48 08.1–1.7 39.03N–.06 142.3E–.20 58–14 3.3b
IDC III 15 17 48 13.2–4.6 38.94N 142.13E 86–43 3.3,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=9.4km az=13.8.
IDC Error ellipse: s-maj=36.2km s-min=28.8km az=87.0.
ISC III 15 17 51 56.1–1.8 36.21N–.04 140.98E–.06 12–11 3.8b 31 1-147
IDC III 15 17 51 54.0–.67 36.12N 141.13E 0 4.0,3.8 **¶600548394**
JMA III 15 17 51 56.7 36.19N 141.02E 36–1 4.1,3.8
ISCJB III 15 17 51 57.0–.72 36.20N–.03 140.99E–.06 30–5 3.7b,3.8
NEIC III 15 17 51 59.0–.46 36.12N 140.99E 35 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=14.9km az=111.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.6km az=165.1.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.8km az=174.0.
JMA III 15 17 56 10.7–.10 36.54N 140.96E 46–1 3.7
¶603049822
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 17 57 27.0–.40 39.70N 142.73E 20 3.8
¶602662087
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 15 18 08 09.7–.20 35.66N 140.93E 4–1 2.1
¶603049823
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 18 14 29.2–2.2 39.27N–.06 142.47E–.08 11–13 3.5b 19 1-63

IDC III 15 18 14 27.3–1.2 39.14N 142.34E 0 3.7,3.5 **¶17196209**
ISCJB III 15 18 14 29.6–1.9 39.18N–.05 142.54E–.08 27–12 3.5b,3.5
JMA III 15 18 14 31.5–.30 39.20N 142.40E 28–3 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=25.9km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=8.3km az=3.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 18 19 01.0 36.74N 140.60E 5–1 2.1
¶602661999
ISC III 15 18 19 40.8–.83 36.67N–.04 141.05E–.07 42–6 4.4b 94 0-83
NIED III 15 18 19 00 36.70N 141.00E 41 4.2W **¶602661996**
ISCJB III 15 18 19 39.7–.58 36.63N–.03 141.09E–.06 53–4 4.2b
JMA III 15 18 19 40.9–.10 36.65N 141.00E 49–1 4.1
NEIC III 15 18 19 42.5–.86 36.57N 140.98E 65–8 4.5b
IDC III 15 18 19 43.3–1.8 36.59N 140.91E 67–16 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ25.00000°,λ33.00000°. NP2:ϕ_s34.00000°,δ77.00000°,λ111.00000°. $M_0$1.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.0km az=12.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.8km az=109.0.
IDC Error ellipse: s-maj=17.8km s-min=10.3km az=87.0.
JMA III 15 18 21 49.2–.40 38.36N 142.21E 28 3.8
¶602661995
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 15 18 37 03.3–1.6 35.68N 140.73E 0 3.8,3.6
¶600548498
IDC Error ellipse: s-maj=172.6km s-min=23.7km az=104.0.
JMA III 15 18 37 31.8 36.74N 140.60E 5 1.4
¶603049825
ISC III 15 18 41 25.1–.85 37.25N–.07 141.78E–.07 24 4.1b 28 1-146
NIED III 15 18 41 00 37.20N 141.50E 32 4.1W **¶16478310**
IDC III 15 18 41 21.5–.97 37.46N 141.85E 0 4.0,3.9
ISCJB III 15 18 41 23.2–.70 37.38N–.08 141.87E–.07 24 4.0b,3.9
NEIC III 15 18 41 27.5–2.4 37.46N 141.75E 41–19 4.3b,3.9
JMA III 15 18 41 30.0–.10 37.18N 141.48E 41–1 4.3,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ18.00000°,λ158.00000°. NP2:ϕ_s211.00000°,δ83.00000°,λ73.00000°. $M_0$1.54000×10^{15}
IDC Error ellipse: s-maj=25.6km s-min=17.5km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.3km az=160.1.
NEIC Event type se. Error ellipse: s-maj=23.2km s-min=15.3km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 18 45 15.5–.40 38.17N 142.08E 12–4 3.6
¶602661195
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 15 18 51 01.2 36.71N 140.60E 5 1.8
¶603049826
ISC III 15 18 51 55.1–1.1 39.57N–.09 142.71E–.09 29 3.8b 20 1-73
IDC III 15 18 51 50.2–1.4 39.43N 142.82E 0 3.8,3.7 **¶17196213**
JMA III 15 18 51 52.8–.40 39.64N 142.79E 10 4.2,3.7
ISCJB III 15 18 51 53.3–.81 39.56N–.08 142.84E–.07 29 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 19 01 31.6–.50 38.16N–.03 142.15E–.03 18–2 5.3b,5.2s 1237 1-161
NIED III 15 19 01 00 38.10N 142.20E 5 5.4W,5.2s **¶16320497**
BJI III 15 19 01 24.6 38.10N 142.76E 19 5.5s,5.3b
JMA III 15 19 01 29.1–.30 38.10N 142.16E 18–3 5.6,5.3b
ISCJB III 15 19 01 29.8–.81 38.13N–.02 142.03E–.02 13–5 5.2b,5.1s
NEIC III 15 19 01 30.5–.09 38.13N 141.93E 10 5.3b,5.1s
GCMT III 15 19 01 30.5–.10 38.21N 141.97E 12 5.4W,5.1s
MOS III 15 19 01 31.7–1.1 38.21N 142.09E 33 5.4b,5.0s
IDC III 15 19 01 31.5–1.9 38.14N 141.97E 16–12 5.1,5.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ43.00000°,λ-95.00000°. NP2:ϕ_s155.00000°,δ47.00000°,λ-86.00000°. $M_0$1.34000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=161.2.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=139.0. Recorded [3 JMA] in Iwate, Miyagi and Yamagata.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c134; s129,c228; Duration: 1$\int$2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.32±.01 $M_{\theta\theta}$0.29±.01; $M_{\phi\phi}$1.04±.01; $M_{r\theta}$0.22±.05; $M_{\theta\phi}$-0.52±.01; $M_{\phi r}$0.23±.04; Best double couple: NP1:ϕ_s165.00000°,δ48.00000° ,λ-74.00000°. NP2:ϕ_s321.00000°,δ44.00000°,λ-108.00000°. Principal axes: T 1.3130,Plg2.0000°,Azm243.0000°; N 0.0840,Plg12.0000°,Azm334.0000° ; P -1.3890,Plg78.0000°,Azm143.0000° $M_0$1.35100×10^{17}
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=96.6.
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=68.0.
IDC III 15 19 28 36.2–3.1 39.14N 142.92E 0 4.2,4.2s
¶17196223
IDC Error ellipse: s-maj=72.9km s-min=38.1km az=67.0.
ISC III 15 19 34 00.5–1.1 35.11N–.08 141.5E–.20 27 3.5b 12 2-84
IDC III 15 19 33 56.4–1.0 35.08N 141.48E 0 3.7,3.6 **¶17196231**
ISCJB III 15 19 33 58.5–.94 35.12N–.07 141.6E–.20 27 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 19 47 06.2–7.5 36.51N 140.26E 0 3.8,3.8
¶17196235
IDC Error ellipse: s-maj=287.2km s-min=21.4km az=64.0.
ISC III 15 19 50 05.9–.92 37.28N–.06 141.69E–.07 29–4 4.2b 33 1-74
NIED III 15 19 50 00 37.30N 141.60E 44 4.1W **¶600548604**
IDC III 15 19 50 06.9–1.1 37.23N 141.83E 44–8 4.1,3.9b
NEIC III 15 19 50 07.5–1.6 37.46N 141.67E 35 4.4b,3.9b
JMA III 15 19 50 08.0–.20 37.26N 141.57E 45–2 4.0,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ37.00000°,λ136.00000°. NP2:ϕ_s49.00000°,δ65.00000°,λ61.00000°. $M_0$1.77000×10^{15}
IDC Error ellipse: s-maj=19.4km s-min=11.4km az=128.0.
NEIC Event type se. Error ellipse: s-maj=34.8km s-min=12.1km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 20 03 50.0–.72 38.39N–.05 142.30E–.06 26–4 4.4b 87 1-145
NIED III 15 20 03 00 38.40N 142.30E 32 4.2W **¶16461770**
ISCJB III 15 20 03 48.7–1.8 38.36N–.04 142.32E–.05 28–12 4.3b
JMA III 15 20 03 49.1–.20 38.44N 142.28E 23–2 4.5
IDC III 15 20 03 50.3–.76 38.37N 142.23E 27–4 4.2,4.2
NEIC III 15 20 03 51.4–.30 38.39N 142.29E 35 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ55.00000°,λ-28.00000°. NP2:ϕ_s355.00000°,δ68.00000°,λ-141.00000°. $M_0$2.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.9km az=16.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.0km s-min=12.3km az=88.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.5km az=145.0.
JMA III 15 20 16 23.2–.20 37.32N 141.79E 32–4 4.2
¶602661060
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 15 20 24 21.5–.10 36.24N 140.87E 43–1 2.6
¶603049828
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 15 20 24 30.0–2.4 38.50N 141.43E 0 3.9,3.7
¶602661041
IDC Error ellipse: s-maj=105.9km s-min=26.3km az=72.0.
ISC III 15 20 29 59.6–.41 35.24N–.03 141.17E–.03 20–1 5.7b,5.5s 1463 1-162
BJI III 15 20 29 56.7 35.29N 141.20E 25 5.8,5.8s **¶602661014**
ISCJB III 15 20 29 57.8–.60 35.18N–.02 141.07E–.02 15–4 5.6b,5.5s
MOS III 15 20 29 58.4–.97 35.18N 141.14E 26 5.8b,5.6s
NEIC III 15 20 29 59.8–.60 35.21N 140.99E 19–3 5.7W,5.6W
GCMT III 15 20 29 59.8–.10 35.17N 141.16E 22–0 5.6W,5.6W
NEIC III 15 20 30 00.0–.00 35.05N 140.79E 15 5.6W,5.6W
JMA III 15 20 30 00.2–.10 35.28N 141.22E 24–3 5.8,5.6W

NIED III 15 20 30 00 35.30N 141.20E 23 5.6W,5.6W
IDC III 15 20 30 03.0–1.2 35.21N 141.06E 42–10 5.5,5.5s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=150.2.
MOS Error ellipse: s-maj=8.1km s-min=5.4km az=118.4.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=2.0km az=134.0. Recorded [3 JMA] in Chiba. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-2.60 $M_{\phi\phi}$1.54 $M_{r\theta}$2.15 $M_{\theta\phi}$0.44 $M_{\phi r}$1.84 Best double couple: NP1:ϕ_s313.00000°,δ36.00000° ,λ162.00000°. NP2:ϕ_s58.00000°,δ80.00000°,λ55.00000°. Principal axes: T 3.6800,Plg44.0000°,Azm293.0000°; N -0.0600,Plg34.0000°,Azm65.0000° ; P -3.6300,Plg26.0000°,Azm175.0000° $M_0$3.60000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s99,c176; s125,c263;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.87±.05 $M_{\theta\theta}$-2.86±.04; $M_{\phi\phi}$0.99±.03; $M_{r\theta}$1.79±.07; $M_{\theta\phi}$0.13±.02; $M_{\phi r}$1.16±.07; Best double couple: NP1:ϕ_s66.00000° ,δ69.00000°,λ62.00000°. NP2:ϕ_s302.00000°,δ34.00000°,λ140.00000°. Principal axes: T 3.0930,Plg57.0000°,Azm299.0000°; N 0.3850,Plg26.0000°,Azm77.0000° ; P -3.4750,Plg19.0000°,Azm176.0000° $M_0$3.28400×10^{17}
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80 $M_{\theta\theta}$-2.40 $M_{\phi\phi}$1.70 $M_{r\theta}$3.10 $M_{\theta\phi}$0.50 $M_{\phi r}$3.80 Best double couple: NP1:ϕ_s46.00000°,δ87.00000° ,λ66.00000°. NP2:ϕ_s310.00000°,δ23.00000°,λ172.00000°. Principal axes: T 5.8000,Plg43.0000°,Azm294.0000°; N -1.0000,Plg23.0000°,Azm48.0000° ; P -4.8000,Plg37.0000°,Azm157.0000° $M_0$5.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ35.00000°,λ-174.00000°. NP2:ϕ_s222.00000°,δ86.00000°,λ-55.00000°. $M_0$3.16000×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=6.3km az=97.0.
JMA III 15 20 41 18.4–.10 35.97N 141.06E 20–2 3.2
¶603049829
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 20 44 44.8–.57 38.89N–.06 142.44E–.06 27 4.3b 53 1-88
NEIC III 15 20 44 40.9–3.4 38.79N 142.42E 4–21 4.7b **¶602660981**
ISCJB III 15 20 44 42.5–.46 38.81N–.05 142.48E–.06 27 4.2b
IDC III 15 20 44 45.9–.75 38.91N 142.38E 34–6 4.1,4.0
JMA III 15 20 44 45.6–.10 39.04N 142.47E 24–2 4.3,4.0
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.6km az=35.7.
IDC Error ellipse: s-maj=16.2km s-min=14.0km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 20 53 42.5–.87 36.95N–.04 140.71E–.05 29–6 4.4b 38 0-69
IDC III 15 20 53 38.0–.95 36.92N 140.83E 0 4.0,3.8 **¶16322657**
ISCJB III 15 20 53 41.5–.65 36.93N–.04 140.88E–.06 39–4 3.8b,3.8
JMA III 15 20 53 42.8 36.93N 140.72E 28–1 4.2,3.8
NEIC III 15 20 53 43.0–.81 36.83N 140.80E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=18.0km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.1km az=8.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s318.00000°,δ87.00000°,λ122.00000°. NP2:ϕ_s52.00000°,δ32.00000°,λ5.00000°. Principal axes: T Plg39.0000°,Azm257.0000°; N Plg32.0000°,Azm136.0000°; P Plg34.0000° ,Azm21.0000°
NEIC Event type fe. Error ellipse: s-maj=16.4km s-min=12.2km az=129.0. Recorded [3 JMA] in Fukushima.
IDC III 15 20 59 07.8–5.7 38.41N 141.50E 0 4.1b,4.0
¶17196249
IDC Error ellipse: s-maj=110.2km s-min=40.8km az=121.0.
JMA III 15 20 59 22.2 36.86N 140.51E 6–1 1.3
¶603049830
ISC III 15 21 00 54.1–2.2 37.37N–.05 141.6E–.10 43–21 3.5b 16 1-57
IDC III 15 21 00 45.9–2.3 37.62N 142.25E 0 3.6,3.6 **¶17196250**
ISCJB III 15 21 00 53.6–1.5 37.31N–.05 141.6E–.20 56–12 3.5b,3.6
JMA III 15 21 00 55.1–.20 37.34N 141.47E 46–2 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=44.8km s-min=30.3km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=7.3km az=174.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 21 04 49.6–.67 36.75N–.03 140.55E–.03 20–2 5.0b,4.5s 601 0-153
NIED III 15 21 04 00 36.70N 140.60E 5 4.6W,4.5s **¶16320504**
BJI III 15 21 04 47.2 36.57N 140.49E 20 5.4b,4.7s
JMA III 15 21 04 47.6 36.73N 140.57E 0 4.8,4.7s
ISCJB III 15 21 04 48.3–.48 36.74N–.02 140.46E–.02 18–3 4.8b,4.5s
IDC III 15 21 04 51.9–3.9 36.76N 140.40E 33–29 4.4,4.4
MOS III 15 21 04 52.4–.84 37.12N 140.31E 33 5.1b,4.4
NEIC III 15 21 04 54.3–.62 36.74N 140.29E 50–6 5.0b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ29.00000°,λ-96.00000°. NP2:ϕ_s193.00000°,δ61.00000°,λ-86.00000°. $M_0$9.06000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ52.00000°,λ-68.00000°. NP2:ϕ_s172.00000°,δ43.00000°,λ-116.00000°. Principal axes: T Plg5.0000°,Azm100.0000°; N Plg17.0000°,Azm192.0000°; P Plg72.0000° ,Azm354.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=151.4.
IDC Error ellipse: s-maj=13.4km s-min=11.5km az=106.0.
MOS Error ellipse: s-maj=6.9km s-min=4.8km az=95.3.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=142.0. Recorded [3 JMA] in Ibaraki.
ISC III 15 21 09 19.0–1.8 35.23N–.09 141.2E–.20 48 3.5b 9 2-59
IDC III 15 21 09 10.6–2.2 35.34N 141.72E 0 3.6,3.6b **¶17196254**
ISCJB III 15 21 09 16.4–1.3 35.22N–.07 141.3E–.20 48 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 21 12 31.4–2.7 40.47N 141.33E 0 3.6,3.6b
¶17196255
IDC Error ellipse: s-maj=82.7km s-min=21.7km az=66.0.
ISC III 15 21 26 28.0–.51 37.37N–.05 141.86E–.05 24 4.1b 53 1-146
NIED III 15 21 26 00 37.30N 141.90E 8 4.1W **¶17196259**
IDC III 15 21 26 25.0–.62 37.51N 141.86E 0 4.2,4.1
JMA III 15 21 26 26.6–.20 37.30N 141.86E 35–4 4.3,4.1
ISCJB III 15 21 26 26.3–.41 37.36N–.05 141.92E–.04 24 4.1b,4.1
NEIC III 15 21 26 30.4–2.6 37.54N 141.83E 35–18 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ35.00000°,λ-58.00000°. NP2:ϕ_s20.00000°,δ61.00000°,λ-110.00000°. $M_0$1.39000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=13.6km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=159.6.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=132.0.
ISC III 15 21 31 34.7–2.5 36.79N–.10 141.8E–.20 35 14 1-44
IDC III 15 21 31 26.1–11 36.40N 142.19E 0 3.3,3.3 **¶17196262**
JMA III 15 21 31 30.6–.30 36.72N 141.92E 38–4 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=192.1km s-min=83.9km az=141.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 15 21 50 49.9–.40 37.08N 141.60E 48–4 2.7
¶602661565
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 15 21 51 52.6–.54 36.24N–.05 141.96E–.06 23 4.1b 43 1-147
NIED III 15 21 51 00 36.30N 142.00E 17 4.2W **¶600548818**
IDC III 15 21 51 49.5–.61 36.24N 141.98E 0 4.2,4.0
ISCJB III 15 21 51 51.1–.45 36.21N–.05 142.02E–.05 23 4.1b,4.0
JMA III 15 21 51 53.2–.20 36.33N 141.98E 64 3.6,4.0
NEIC III 15 21 51 55.1–1.3 36.27N 141.90E 36–11 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ48.00000°,λ-123.00000°. NP2:ϕ_s153.00000°,δ51.00000°,λ-58.00000°. $M_0$2.22000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=14.7km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.7km az=7.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.8km az=102.0.
ISC III 15 21 58 10.9–2.8 36.54N–.06 141.7E–.20 44–22 3.5b 15 1-57
IDC III 15 21 58 02.5–2.6 36.71N 142.36E 0 3.7,3.6b **¶17196266**
ISCJB III 15 21 58 09.5–1.6 36.51N–.05 141.8E–.10 52–12 3.5b,3.6b
JMA III 15 21 58 10.7–.20 36.56N 141.68E 54–4 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=70.2km s-min=29.2km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=8.4km az=174.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 22 01 17.7–1.1 39.00N–.07 142.34E–.09 27 3.7b 15 1-59
IDC III 15 22 01 13.6–1.5 38.89N 142.37E 0 3.9,3.8b **¶17196270**
ISCJB III 15 22 01 16.3–.99 39.08N–.07 142.50E–.09 27 3.7b,3.8b
JMA III 15 22 01 18.9–.20 39.12N 142.37E 30–3 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=28.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=9.3km az=153.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 15 22 03 05.5–1.6 38.38N 141.59E 0 3.9,3.7b
¶17196271
IDC Error ellipse: s-maj=80.0km s-min=28.5km az=124.0.
ISC III 15 22 12 20.0–2.8 36.79N–.08 141.7E–.30 83 3.5b 12 1-75
JMA III 15 22 12 13.5–.30 37.00N 142.21E 39 3.6 **¶17196274**
IDC III 15 22 12 17.5–1.5 36.84N 140.54E 0 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=30.0km s-min=25.8km az=108.0.
JMA III 15 22 19 36.7–.40 39.66N 142.68E 14–4 3.6
¶602661519
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 15 22 22 28.4–.50 38.15N 142.52E 51 3.3
¶17196278
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 15 22 30 44.5–1.7 36.56N–.05 141.93E–.10 43–15 3.8b 41 1-83
NIED III 15 22 30 00 36.70N 142.10E 32 4.1W **¶16461774**
JMA III 15 22 30 40.7–.40 36.66N 142.07E 35 4.1
ISCJB III 15 22 30 43.0–1.1 36.58N–.04 141.94E–.09 44–8 3.8b
IDC III 15 22 30 45.9–2.7 36.49N 141.63E 53–23 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ25.00000°,λ93.00000°. NP2:ϕ_s28.00000°,δ65.00000°,λ89.00000°. $M_0$1.85000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.9km az=177.6.
IDC Error ellipse: s-maj=25.9km s-min=13.1km az=83.0.
IDC III 15 22 52 35.1–1.3 39.38N 143.00E 0 3.6,3.4
¶17196281
IDC Error ellipse: s-maj=38.9km s-min=25.5km az=132.0.
JMA III 15 22 59 50.9–.10 37.38N 141.27E 32–1 3.7
¶602661470
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 15 23 13 26.1–.30 37.48N 141.82E 22 3.4
¶602661430
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 15 23 13 44.5–.20 38.16N 142.15E 20–5 4.3
NIED III 15 23 13 00 38.20N 142.10E 41 4.0W **¶600548953**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ48.00000°,λ-163.00000°. NP2:ϕ_s324.00000°,δ78.00000°,λ-43.00000°. $M_0$1.27000×10^{15}
ISC III 15 23 20 50.1–1.6 36.64N–.05 141.12E–.08 33–10 3.8b 23 0-69
NIED III 15 23 20 00 36.70N 141.10E 47 3.8W **¶17196288**
IDC III 15 23 20 41.5–1.8 36.92N 141.88E 0 4.0L,3.9
ISCJB III 15 23 20 48.4–1.3 36.65N–.05 141.3E–.10 45–10 3.7b,3.9
JMA III 15 23 20 50.1–.10 36.66N 141.12E 45–1 3.7,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ21.00000°,λ41.00000°. NP2:ϕ_s167.00000°,δ76.00000°,λ106.00000°. $M_0$4.99000×10^{14}
IDC Error ellipse: s-maj=46.8km s-min=23.3km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.6km az=174.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 15 23 21 57.0–23 38.68N 142.79E 0 3.7,3.7
¶17196289
IDC Error ellipse: s-maj=436.7km s-min=89.8km az=145.0.
JMA III 15 23 23 53.0–.20 38.80N 142.19E 33–3 3.9
¶16478401
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 23 29 36.6–.30 39.54N 142.77E 8–3 3.6
¶602661398
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 15 23 38 42.1 36.74N 140.59E 8 2.1
¶602660861
ISC III 15 23 39 19.8–.92 36.72N–.03 140.57E–.04 10–6 3.7b 28 0-147
NIED III 15 23 39 00 36.70N 140.60E 20 3.9W **¶602443607**
IDC III 15 23 39 18.5–.82 36.76N 140.53E 0 4.0,3.8
JMA III 15 23 39 19.9 36.73N 140.59E 5–3 3.7,3.8
ISCJB III 15 23 39 19.1–.66 36.70N–.03 140.66E–.05 16–4 3.6b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ67.00000°,λ-14.00000°. NP2:ϕ_s132.00000°,δ77.00000°,λ-157.00000°. $M_0$8.21000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 15 23 40 10.4–1.2 36.78N–.05 140.57E–.04 7–9 4.0b 29 0-91
NIED III 15 23 40 00 36.70N 140.60E 5 3.8W **¶602443609**
IDC III 15 23 40 09.7–.76 36.83N 140.48E 0 4.1,3.9
ISCJB III 15 23 40 10.4–.60 36.71N–.03 140.65E–.05 18–4 3.8b,3.9
JMA III 15 23 40 11.2 36.74N 140.59E 7–2 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ34.00000°,λ-110.00000°. NP2:ϕ_s195.00000°,δ58.00000°,λ-77.00000°. $M_0$6.49000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=16.7km az=167.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=27.0.
JMA Event type fe.
ISC III 15 23 58 05.1–.35 35.90N–.04 141.34E–.05 26 4.8b,3.8s 228 0-147
NIED III 15 23 58 00 36.00N 141.40E 32 4.6W,3.8s **¶16320512**
IDC III 15 23 58 01.1–.50 35.88N 141.36E 0 4.6,4.5
ISCJB III 15 23 58 03.8–.18 35.88N–.02 141.34E–.03 26 4.7b,3.9s
MOS III 15 23 58 04.6–.99 35.93N 141.34E 33 5.0b,3.9s
JMA III 15 23 58 05.1–.20 35.96N 141.36E 36–2 4.4,3.9s
NEIC III 15 23 58 07.0–.68 35.84N 141.25E 40–6 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ44.00000°,λ-154.00000°. NP2:ϕ_s96.00000°,δ72.00000°,λ-50.00000°. $M_0$7.60000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.6km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.3km az=34.2.
MOS Error ellipse: s-maj=9.6km s-min=6.3km az=103.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.3km az=128.0.
JMA III 16 00 03 38.0–.20 38.21N 142.36E 29–4 3.9
¶602665976
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 00 06 05.1–.50 36.17N–.05 141.97E–.07 23 4.2b 57 1-147
NIED III 16 00 06 00 36.30N 142.00E 11 4.0W **¶600549060**
IDC III 16 00 06 01.9–.64 36.19N 141.87E 0 4.2,4.1
ISCJB III 16 00 06 03.6–.35 36.23N–.04 142.03E–.05 23 4.2b,4.1
JMA III 16 00 06 04.3–.40 36.27N 142.00E 34 3.8,4.1
NEIC III 16 00 06 05.4–2.0 36.21N 141.91E 22–13 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ43.00000°,λ88.00000°. NP2:ϕ_s50.00000°,δ47.00000°,λ92.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=15.9km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.3km az=43.3.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=139.0.
ISC III 16 00 19 33.0–2.4 39.12N–.07 142.41E–.09 16–13 3.3b 17 1-47
IDC III 16 00 19 32.0–2.7 39.41N 142.20E 0 3.6,3.5b **¶17196300**

ISCJB III 16 00 19 33.0–1.9 39.09N–.06 142.47E–.09 28–12 3.4b,3.5b
JMA III 16 00 19 34.0–.20 39.07N 142.37E 27–3 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=62.6km s-min=32.4km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.1km az=19.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 16 00 22 14.0–.10 36.90N 141.09E 30–1 3.4
¶603049835
ISC III 16 00 22 31.8–.57 36.40N–.04 141.10E–.07 38–2 4.5b 78 0-147
IDC III 16 00 22 26.0–.55 36.38N 141.03E 0 4.5,4.4b **¶602443611**
NEIC III 16 00 22 29.6–4.0 36.22N 141.08E 24–29 4.8b,4.4b
JMA III 16 00 22 31.0–.10 36.39N 141.08E 46–1 4.3,4.4b
ISCJB III 16 00 22 31.2–.60 36.38N–.03 141.07E–.06 45–5 4.5b,3.2s
ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
ISCJB Event type fe.
ISC III 16 00 29 04.0–3.2 38.31N–.05 142.97E–.06 24–23 4.5b 92 2-145
JMA III 16 00 29 02.4–.40 38.40N 142.76E 0 4.4 **¶16461830**
ISCJB III 16 00 29 03.4–.77 38.27N–.03 142.95E–.06 34–6 4.5b
NEIC III 16 00 29 04.3–1.9 38.31N 142.90E 25–13 4.8b
IDC III 16 00 29 06.5–2.4 38.30N 142.77E 38–21 4.2,4.1
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.9km az=4.2.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.5km az=107.0.
IDC Error ellipse: s-maj=15.1km s-min=11.7km az=85.0.
ISC III 16 00 30 08.8–.57 35.89N–.06 141.95E–.07 23 4.6b 48 1-147
IDC III 16 00 30 05.9–.88 35.90N 141.89E 0 4.4L,4.3 **¶16478423**
ISCJB III 16 00 30 07.1–.41 35.96N–.05 142.03E–.05 23 4.5b,4.3
JMA III 16 00 30 08.3–.30 36.03N 141.98E 32 4.1,4.3
NEIC III 16 00 30 10.5–.35 35.86N 141.94E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=18.7km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=143.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.9km az=85.0.
JMA III 16 00 31 01.8–.30 39.75N 142.66E 20–5 4.0
¶602665919
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 16 00 41 59.7–.00 36.7N–.10 141.77E–.08 26 3.8b 16 1-147
NIED III 16 00 41 00 36.70N 141.90E 26 3.8W **¶17196301**
JMA III 16 00 41 58.2–.40 36.75N 141.87E 36 3.7
ISCJB III 16 00 41 58.0–.88 36.6N–.10 141.85E–.07 26 3.7b
IDC III 16 00 42 03.6–4.4 36.64N 141.62E 58–40 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ28.00000°,λ71.00000°. NP2:ϕ_s47.00000°,δ64.00000°,λ100.00000°. $M_0$6.14000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=8.0km az=174.9.
IDC Error ellipse: s-maj=31.2km s-min=24.2km az=47.0.
JMA III 16 00 46 22.8–.10 38.35N 141.73E 52–2 3.8
¶602665529
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 00 47 08.9–1.2 39.09N–.08 142.37E–.08 27 3.8b 13 1-59
IDC III 16 00 47 04.8–1.3 38.99N 142.31E 0 4.0,3.8 **¶600549138**
ISCJB III 16 00 47 06.8–1.0 39.03N–.08 142.51E–.08 27 3.6b,3.8
JMA III 16 00 47 09.4–.30 39.10N 142.38E 28–4 4.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=27.5km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.6km az=23.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 00 53 05.4–.10 35.80N 140.96E 13–1 2.5
¶603049836
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 00 53 26.8–.92 35.09N–.07 141.27E–.10 27 3.8b 13 2-79
ISCJB III 16 00 53 25.0–.84 35.12N–.07 141.2E–.10 27 3.8b **¶17196303**
IDC III 16 00 53 29.1–2.4 35.09N 141.07E 46–24 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=8.8km az=17.5.
IDC Error ellipse: s-maj=26.4km s-min=15.0km az=89.0.
ISC III 16 01 08 07.7–1.3 36.33N–.03 141.01E–.05 23–9 4.3b 69 0-152
NIED III 16 01 08 00 36.30N 141.00E 26 4.1W **¶602443617**
JMA III 16 01 08 07.8–.10 36.29N 140.96E 39–1 4.2
ISCJB III 16 01 08 07.8–.62 36.30N–.03 141.01E–.05 37–5 4.2b,2.6s
NEIC III 16 01 08 08.9–2.5 36.33N 141.00E 32–17 4.5b,2.6s
IDC III 16 01 08 12.8–1.8 36.23N 140.81E 64–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ13.00000°,λ-54.00000°. NP2:ϕ_s221.00000°,δ79.00000°,λ-98.00000°. $M_0$1.69000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=0.4.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=139.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=78.0.
ISC III 16 01 15 16.3–2.0 36.70N–.06 141.17E–.10 28–11 3.5b 19 0-74
IDC III 16 01 15 11.0–1.6 36.61N 141.47E 0 3.6,3.4 **¶600549221**
ISCJB III 16 01 15 16.0–1.6 36.72N–.06 141.2E–.10 37–12 3.4b,3.4
JMA III 16 01 15 17.1–.10 36.76N 141.13E 45–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=36.4km s-min=27.5km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=8.9km az=13.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 01 25 06.3–1.6 36.40N–.08 140.9E–.10 65–10 3.0b 15 0-56
IDC III 16 01 25 04.2–5.3 35.43N 140.67E 0 3.3,3.3b **¶17196308**
JMA III 16 01 25 09.9–.10 36.50N 140.69E 54–1 2.9,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=174.4km s-min=27.9km az=58.0.
JMA Event type fe.
ISC III 16 01 37 04.9–2.4 39.63N–.06 142.86E–.08 4–15 3.7b 23 1-88
JMA III 16 01 37 08.4–.40 39.66N 142.74E 15–5 4.3 **¶17196310**
IDC III 16 01 37 12.8–3.8 39.53N 142.98E 65–36 3.6,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=25.3km s-min=22.1km az=125.0.
ISC III 16 01 43 34.1–1.0 35.5N–.10 141.6E–.10 25 3.5b 8 3-119
IDC III 16 01 43 31.1–1.0 35.16N 142.19E 0 3.9,3.6 **¶16478434**
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=24.7km az=98.0.
ISC III 16 01 44 11.8–.55 36.17N–.07 141.92E–.06 23 4.4b 62 1-90
IDC III 16 01 44 08.8–.74 36.23N 141.89E 0 4.3,4.2 **¶602665398**
ISCJB III 16 01 44 09.8–.36 36.16N–.05 141.97E–.04 23 4.3b,4.2
NEIC III 16 01 44 10.8–2.5 36.24N 141.91E 15–15 4.5b,4.2
JMA III 16 01 44 10.6–.30 36.21N 141.97E 41 4.5,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=15.9km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.4km az=154.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 16 01 47 19.8–.20 37.35N 141.82E 27–2 3.7
¶602665397
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 01 48 51.0–1.6 35.91N–.04 141.28E–.06 15–10 3.6b 25 0-147
NIED III 16 01 48 00 36.00N 141.30E 11 3.9W **¶17196313**
IDC III 16 01 48 48.8–.83 35.81N 141.34E 0 4.0L,3.9
ISCJB III 16 01 48 49.4–2.1 35.93N–.04 141.44E–.06 15–13 3.6b,3.9
JMA III 16 01 48 51.2–.20 35.96N 141.34E 25–2 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ47.00000°,λ-10.00000°. NP2:ϕ_s320.00000°,δ83.00000°,λ-136.00000°. $M_0$8.41000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=17.9km az=102.0.

ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.7km az=170.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 01 50 36.1–2.4 35.5N–.40 141.6E–.10 25 3.5b 8 1-51
IDC III 16 01 50 25.4–16 34.28N 141.79E 0 3.8,3.7 **¶17196314**
JMA III 16 01 50 34.3–.30 35.72N 141.80E 13–4 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=410.6km s-min=40.2km az=173.0.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
JMA III 16 01 52 51.7–.10 36.89N 141.10E 30–1 3.6
¶602665390
JMA Event type fe.
ISC III 16 02 01 25.8–1.3 36.05N–.09 141.9E–.10 23 3.9b 14 1-147
IDC III 16 02 01 25.5–2.5 36.74N 142.17E 0 4.0,4.0 **¶17196316**
ISCJB III 16 02 01 25.6–1.2 36.12N–.07 141.87E–.09 23 3.9b,4.0
JMA III 16 02 01 26.4–.30 36.09N 141.88E 42 3.7,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=35.5km az=3.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=8.8km az=26.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 16 02 06 20.1–.10 36.41N 141.03E 46–1 3.5
¶602665376
JMA Event type fe.
JMA III 16 02 13 19.8–.20 38.90N 142.01E 46–3 3.6
¶602665370
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 16 02 15 43.8–.10 37.44N 141.45E 38–2 3.5
¶602665368
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 02 16 28.1–.77 35.05N–.08 141.9E–.10 29 3.7b 17 3-147
IDC III 16 02 16 23.8–.88 35.04N 141.96E 0 3.8,3.7 **¶16461831**
ISCJB III 16 02 16 26.6–.72 35.06N–.08 142.0E–.10 29 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 02 16 40.7–.10 35.62N 140.93E 24–1 2.2
¶603049841
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 02 32 02.0–1.0 38.06N–.05 141.5E–.10 66 3.5b 15 1-63
IDC III 16 02 32 00.9–1.2 39.24N 141.34E 0 3.7,3.5 **¶602666239**
ISCJB III 16 02 32 01.2–.88 38.06N–.04 141.51E–.10 66 3.4b,3.5
JMA III 16 02 32 02.6–.10 38.05N 141.42E 61–2 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=20.6km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.8km az=11.0.
ISC III 16 02 48 25.3–.75 39.43N–.10 142.53E–.07 29 4.5b 35 1-81
JMA III 16 02 48 25.9–.20 39.55N 142.49E 14–3 4.4 **¶16424543**
NEIC III 16 02 48 29.4–.54 39.96N 142.35E 35 4.5b
IDC III 16 02 48 33.2–5.9 39.83N 142.29E 74–35 4.3,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=11.4km az=89.0.
IDC Error ellipse: s-maj=80.9km s-min=28.2km az=161.0.
ISC III 16 02 52 24.1–.87 38.65N–.06 142.3E–.10 35 3.7b 25 1-78
ISCJB III 16 02 52 22.4–.70 38.66N–.05 142.53E–.09 35 3.7b **¶17196324**
JMA III 16 02 52 25.8–.20 38.68N 142.17E 40–2 4.2
IDC III 16 02 52 28.3–3.4 38.73N 142.18E 73–29 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.6km az=170.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.4km s-min=17.2km az=85.0.
ISC III 16 02 59 06.6–2.1 36.17N–.05 141.58E–.09 17–12 3.7b 22 1-56
IDC III 16 02 59 01.1–2.7 36.22N 142.19E 0 3.9L,3.7 **¶17196325**
JMA III 16 02 59 08.3–.20 36.22N 141.56E 45 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=61.1km s-min=28.4km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 03 09 05.8–.86 35.69N–.04 140.83E–.07 47–6 3.8b 31 0-148
ISCJB III 16 03 09 04.6–.64 35.68N–.04 140.86E–.09 54–4 3.8b **¶17196327**
JMA III 16 03 09 05.7–.10 35.70N 140.73E 45–1 3.3
IDC III 16 03 09 07.7–4.2 35.63N 140.66E 62–32 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.9km az=176.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=51.9km s-min=13.4km az=73.0.
JMA III 16 03 22 56.2–.10 36.24N 140.90E 44–1 2.2
¶602666174
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 03 23 34.0–1.4 36.97N–.04 141.25E–.06 26–9 4.5b 88 0-147
NIED III 16 03 23 00 36.90N 141.30E 11 4.2W **¶16320520**
JMA III 16 03 23 32.4–.10 36.91N 141.34E 31–1 4.7
ISCJB III 16 03 23 34.5–.64 36.96N–.03 141.27E–.05 42–5 4.4b
NEIC III 16 03 23 37.9–.76 36.95N 141.13E 58–7 4.6b
IDC III 16 03 23 38.2–1.8 36.92N 141.16E 60–16 4.3,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ41.00000°,λ-89.00000°. NP2:ϕ_s208.00000°,δ49.00000°,λ-91.00000°. $M_0$2.16000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=20.6.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.4km az=151.0. Recorded [2 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=13.8km s-min=10.5km az=90.0.
ISC III 16 03 34 38.1–.63 39.07N–.05 142.31E–.06 24–3 3.9b 33 1-88
JMA III 16 03 34 38.9–.10 39.12N 142.34E 33–2 4.4 **¶17196330**
IDC III 16 03 34 39.5–.69 39.04N 142.29E 34–5 3.9,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=14.4km az=113.0.
ISC III 16 03 52 04.0–.43 35.83N–.02 140.88E–.02 17–2 6.0b,5.5s 1901 0-162
NIED III 16 03 52 00 35.80N 141.00E 8 5.8W,5.5s **¶16320521**
BJI III 16 03 52 01.1 35.75N 140.95E 23 5.9s,5.8b
IDC III 16 03 52 01.4–.27 35.80N 140.83E 0 5.7,5.6
NEIC III 16 03 52 03.0–.08 35.75N 140.71E 10 6.0b,5.8
JMA III 16 03 52 02.7–.10 35.84N 140.91E 10–1 6.1,5.8
ISCJB III 16 03 52 03.2–.37 35.79N–.02 140.79E–.01 18–2 5.9b,5.6s
GCMT III 16 03 52 03.0–.10 35.78N 140.83E 12 5.8W,5.6s
NEIC III 16 03 52 05.0–.00 35.79N 141.20E 25 5.8W,5.6s
MOS III 16 03 52 05.2–.97 35.81N 140.71E 33 6.2b,5.6s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ39.00000°,λ-59.00000°. NP2:ϕ_s152.00000°,δ57.00000°,λ-113.00000°. $M_0$6.44000×10^{17}
IDC Error ellipse: s-maj=10.4km s-min=7.7km az=80.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=136.0. Felt [III] at Tokyo. Also felt at Akishima, Iruma, Oyama, Sagamihara, Saitama, Sayama, Suwa and Yokohama. Recorded [5L JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s66 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.51 $M_{\theta\theta}$-1.11 $M_{\phi\phi}$6.62 $M_{r\theta}$-0.40 $M_{\theta\phi}$2.68 $M_{\phi r}$1.06 Best double couple: NP1:ϕ_s28.00000°,δ42.00000°,λ-74.00000°. NP2:ϕ_s187.00000°,δ50.00000°,λ-104.00000°. Principal axes: T 7.5200,Plg4.0000°,Azm287.0000° ; N -1.8200,Plg10.0000°,Azm196.0000°; P -5.7000,Plg79.0000°,Azm37.0000° $M_0$6.80000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s165.00000°,δ48.00000°,λ-85.00000°. NP2: ϕ_s337.00000°,δ42.00000°,λ-96.00000°. Principal axes: T Plg3.0000°,Azm251.0000° ; N Plg4.0000°,Azm341.0000°; P Plg85.0000°,Azm124.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=169.2.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s112,c226; s135,c430;Duration: 2s0 Moment tensor: Scale 10^{17} Nm; M_{rr}-5.92±.05 $M_{\theta\theta}$-0.87±.05; $M_{\phi\phi}$6.79±.04; $M_{r\theta}$0.10±.14; $M_{\theta\phi}$-0.41±.04; $M_{\phi r}$2.54±.13; Best double couple: NP1:ϕ_s179.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ_s354.00000° ,δ34.00000°,λ-94.00000°. Principal axes: T 7.2970,Plg11.0000°,Azm267.0000° ; N -0.8840,Plg2.0000°,Azm358.0000°; P -6.4150,Plg79.0000°,Azm100.0000° $M_0$6.85600×10^{17}

NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.98 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$3.98 $M_{r\theta}$2.47 $M_{\theta\phi}$-0.32 $M_{\phi r}$1.51 Best double couple: NP1:ϕ_s202.00000° ,δ60.00000°,λ-62.00000°. NP2:ϕ_s335.00000°,δ40.00000°,λ-129.00000°. Principal axes: T 4.2600,Plg10.0000°,Azm272.0000°; N 1.1400,Plg23.0000°,Azm7.0000° ; P -5.4000,Plg63.0000°,Azm159.0000° $M_0$4.90000×10^{17}

MOS Error ellipse: s-maj=6.3km s-min=4.0km az=108.1.

JMA	**III**	**16 03 56 03.9–.10**	**35.86N**	**140.88E**	**13–1**	**3.7**			
									¶602666132

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**16 04 09 55.9–.10**	**35.84N**	**140.92E**	**11–1**	**3.6**			
									¶602666101

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**16 04 10 24.0–.10**	**35.88N**	**140.91E**	**10–1**	**3.5**			
									¶602666095

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**16 04 13 19.9–.10**	**35.82N**	**140.89E**	**10–1**	**3.6**			
									¶602666089

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**16 04 14 30.4–.32**	**37.55N–.03**	**141.57E–.03**	**20–1**	**5.3b,4.9s**	**757**	**1-149**	
NIED	III	16 04 14 00	37.50N	141.60E	14	5.3W,4.9s			**¶602443619**
ISCJB	III	16 04 14 28.6–.97	37.56N–.02	141.51E–.02	12–6	5.3b,5.0s			
BJI	III	16 04 14 29.5	37.50N	141.40E	23	5.7b,5.3s			
JMA	III	16 04 14 29.6–.10	37.53N	141.58E	25–2	5.6,5.3s			
GCMT	III	16 04 14 30.5–.10	37.55N	141.57E	19–0	5.4W,5.3s			
NEIC	III	16 04 14 30.5–.69	37.55N	141.43E	17–4	5.3b,5.3s			
IDC	III	16 04 14 31.5–.44	37.55N	141.50E	25–2	5.0,4.9			
MOS	III	16 04 14 33.7–1.1	38.04N	141.44E	33	5.5b,4.9s			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ78.00000°,λ-1.00000°. NP2:ϕ_s348.00000°,δ89.00000°,λ-168.00000°. $M_0$9.41000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=139.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c88; s123,c225; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.03 $M_{\theta\theta}$-0.64±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$0.01±.05; $M_{\theta\phi}$1.19±.02; $M_{\phi r}$-0.21±.05; Best double couple: NP1:ϕ_s165.00000°,δ89.00000° ,λ171.00000°. NP2:ϕ_s256.00000°,δ82.00000°,λ1.00000°. Principal axes: T 1.4010,Plg7.0000°,Azm120.0000°; N -0.0510,Plg81.0000°,Azm337.0000° ; P -1.3500,Plg5.0000°,Azm211.0000° $M_0$1.37600×10^{17}

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=136.0. Recorded [4 JMA] in Fukushima.

IDC Error ellipse: s-maj=10.3km s-min=8.6km az=96.0.

MOS Error ellipse: s-maj=6.5km s-min=4.2km az=100.3.

ISC	**III**	**16 04 17 22.9–1.5**	**35.87N–.04**	**140.92E–.06**	**2–9**	**4.4b**	**33**	**0-148**	
NIED	III	16 04 17 00	35.90N	140.90E	5	4.5W			**¶16427610**
IDC	III	16 04 17 21.7–.98	35.68N	141.05E	0	4.6,4.4			
JMA	III	16 04 17 22.7–.10	35.86N	140.90E	12–2	4.8,4.4			
ISCJB	III	16 04 17 22.4–.86	35.91N–.03	140.95E–.05	5–5	4.3b,4.4			
NEIC	III	16 04 17 26.9–.87	35.75N	140.91E	35	4.5b,4.4			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ50.00000°,λ-144.00000°. NP2:ϕ_s225.00000°,δ63.00000°,λ-46.00000°. $M_0$6.76000×10^{15}

IDC Error ellipse: s-maj=28.1km s-min=21.3km az=7.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.2km az=0.4.

NEIC Event type se. Error ellipse: s-maj=24.5km s-min=12.9km az=1.0.

JMA	**III**	**16 04 55 18.5–.10**	**37.11N**	**141.09E**	**30–1**	**3.4**			
									¶603049843

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC	**III**	**16 04 55 50.8–3.9**	**38.40N**	**141.63E**	**0**	**4.2,3.9**			
									¶17196337

IDC Error ellipse: s-maj=332.6km s-min=28.5km az=111.0.

ISC	**III**	**16 05 10 28.7–1.1**	**37.7N–.20**	**141.9E–.20**	**24**	**4.1b**	**7**	**1-74**	
IDC	III	16 05 10 30.5–.91	37.74N	141.96E	30–6	4.0,3.9			**¶603049844**
JMA	III	16 05 10 44.2–.10	36.35N	140.57E	50–1	2.5,3.9			

ISC Event type ke.

IDC Error ellipse: s-maj=29.7km s-min=18.9km az=83.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**16 05 16 06.5–.94**	**36.16N–.07**	**141.02E–.08**	**31**	**3.8b**	**12**	**0-79**	
IDC	III	16 05 16 02.3–1.2	36.16N	141.10E	0	3.7,3.5b			**¶600549559**
ISCJB	III	16 05 16 05.4–.85	36.21N–.05	141.07E–.07	31	3.6b,3.5b			
JMA	III	16 05 16 06.3–.10	36.21N	141.02E	28–1	3.5,3.5b			

ISC Event type ke.

IDC Error ellipse: s-maj=31.7km s-min=26.7km az=144.0.

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=7.0km az=150.4.

JMA Event type fe.

ISC	**III**	**16 05 20 46.8–1.1**	**35.94N–.07**	**141.0E–.10**	**31**	**3.4b**	**10**	**0-56**	
IDC	III	16 05 20 43.2–1.4	35.94N	141.09E	0	3.5,3.4			**¶602665266**
ISCJB	III	16 05 20 45.4–1.0	35.93N–.06	141.0E–.10	31	3.4b,3.4			
JMA	III	16 05 20 45.9–.10	35.98N	141.02E	15–2	3.4,3.4			

ISC Event type ke.

IDC Error ellipse: s-maj=33.1km s-min=30.5km az=80.0.

ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.6km az=163.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**16 05 30 43.7–.20**	**36.67N**	**141.22E**	**43–2**	**2.9**			
									¶603049845

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**16 05 52 22.0–.20**	**38.30N**	**142.30E**	**22–3**	**3.6**			
									¶602664860

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**16 05 54 58.0–2.1**	**37.26N–.07**	**141.93E–.07**	**13–13**	**3.6b**	**22**	**1-77**	
ISCJB	III	16 05 54 56.7–1.6	37.39N–.07	142.10E–.07	15–11	3.5b			**¶602664840**
IDC	III	16 05 54 56.3–1.0	37.32N	142.14E	0	3.8,3.6			
JMA	III	16 05 55 01.2–.20	37.34N	141.84E	33–3	4.1,3.6			

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=9.0km az=1.4.

IDC Error ellipse: s-maj=26.7km s-min=21.2km az=140.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**16 06 06 15.3–.70**	**37.35N–.05**	**141.98E–.07**	**24**	**3.8b**	**28**	**1-146**	
NIED	III	16 06 06 00	37.40N	141.80E	32	4.0W			**¶17196350**
IDC	III	16 06 06 11.5–.74	37.33N	142.10E	0	4.3L,3.9			
ISCJB	III	16 06 06 13.5–.55	37.31N–.04	142.05E–.05	24	3.6b,3.9			
JMA	III	16 06 06 16.9–.20	37.39N	141.84E	36–3	4.2,3.9			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ65.00000°,λ-14.00000°. NP2:ϕ_s314.00000°,δ77.00000°,λ-154.00000°. $M_0$1.01000×10^{15}

IDC Error ellipse: s-maj=22.0km s-min=16.9km az=101.0.

ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.6km az=149.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**16 06 07 56.5–.10**	**35.81N**	**140.92E**	**12–1**	**2.6**			
									¶602664812

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**16 06 08 58.7–1.7**	**35.15N–.05**	**141.23E–.07**	**15–10**	**3.8b**	**24**	**1-148**	
NIED	III	16 06 08 00	35.20N	141.30E	14	3.9W			**¶600549731**
IDC	III	16 06 08 56.0–.92	35.09N	141.25E	0	3.9,3.7			
JMA	III	16 06 08 58.5–.20	35.19N	141.28E	31–3	3.5,3.7			
ISCJB	III	16 06 08 58.4–1.1	35.15N–.04	141.30E–.08	26–6	3.7b,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ33.00000°,λ146.00000°. NP2:ϕ_s37.00000°,δ72.00000°,λ61.00000°. $M_0$8.58000×10^{14}

ISCJB Event type ke.

ISC	**III**	**16 06 15 05.5–.92**	**35.16N–.05**	**141.20E–.10**	**35**	**3.7b**	**23**	**1-148**	
IDC	III	16 06 15 00.5–1.1	35.11N	141.30E	0	3.8,3.8			**¶16478479**
JMA	III	16 06 15 02.6–.20	35.20N	141.28E	44–3	3.5,3.8			
ISCJB	III	16 06 15 03.7–.80	35.14N–.05	141.23E–.09	35	3.8b,3.8			

ISC Event type ke.

ISCJB Event type ke.

IDC	**III**	**16 06 17 08.8–2.6**	**36.98N**	**141.88E**	**0**	**3.9,3.8b**			
									¶17196355

IDC Error ellipse: s-maj=66.7km s-min=31.1km az=61.0.

JMA	**III**	**16 06 23 24.1–.20**	**37.67N**	**141.97E**	**24**	**3.7**			
									¶17196356

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC	**III**	**16 06 23 43.9–.82**	**37.82N**	**141.38E**	**0**	**3.7,3.5**			
									¶603049847

IDC Error ellipse: s-maj=32.8km s-min=20.1km az=120.0.

ISC	**III**	**16 06 29 02.8–.30**	**39.89N–.03**	**142.23E–.03**	**39–2**	**5.5b,5.3s**	**1260**	**1-155**	
NIED	III	16 06 29 00	39.90N	142.30E	50	5.7W,5.3s			**¶16320528**
BJI	III	16 06 29 01.1	40.00N	142.10E	31	5.6b,5.5s			
JMA	III	16 06 29 02.9–.10	39.86N	142.30E	41–2	5.7,5.5s			
MOS	III	16 06 29 02.7–.78	40.11N	141.99E	36	5.8b,5.5s			
ISCJB	III	16 06 29 03.6–.31	39.89N–.02	142.09E–.02	53–2	5.5b,5.4s			
GCMT	III	16 06 29 03.2–.10	39.87N	142.33E	48–0	5.8W,5.4s			
NEIC	III	16 06 29 03.2–.09	39.89N	142.02E	36	5.8W,5.7W			
NEIC	III	16 06 29 03.0–.00	39.77N	142.49E	31	5.8W,5.7W			
IDC	III	16 06 29 05.4–1.8	39.85N	142.16E	63–16	5.3,5.2			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ80.00000°. NP2:ϕ_s20.00000°,δ72.00000°,λ93.00000°. $M_0$4.71000×10^{17}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=5.9km s-min=3.7km az=97.6.

ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=148.5.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c243; s126,c326;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}4.40±.06 $M_{\theta\theta}$-0.18±.05; $M_{\phi\phi}$-4.22±.05; $M_{r\theta}$1.64±.05; $M_{\theta\phi}$-1.16±.04; $M_{\phi r}$3.29±.06; Best double couple: NP1:ϕ_s22.00000° ,δ65.00000°,λ96.00000°. NP2:ϕ_s187.00000°,δ26.00000°,λ77.00000°. Principal axes: T 5.7580,Plg70.0000°,Azm305.0000°; N 0.0560,Plg6.0000°,Azm200.0000° ; P -5.8110,Plg20.0000°,Azm107.0000° $M_0$5.78400×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=140.0. Recorded [3 JMA] in Aomori and Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17} Nm; M_{rr}4.41 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-4.49 $M_{r\theta}$2.48 $M_{\theta\phi}$-1.29 $M_{\phi r}$4.03 Best double couple: NP1: ϕ_s182.00000°,δ24.00000°,λ67.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ100.00000°. Principal axes: T 6.5300,Plg65.0000°,Azm314.0000°; N 0.1900,Plg9.0000°,Azm203.0000° ; P -6.7200,Plg23.0000°,Azm109.0000° $M_0$6.60000×10^{17}

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}3.01 $M_{\theta\theta}$-0.59 $M_{\phi\phi}$-2.42 $M_{r\theta}$1.76 $M_{\theta\phi}$-0.60 $M_{\phi r}$2.00 Best double couple: NP1:ϕ_s32.00000° ,δ67.00000°,λ100.00000°. NP2:ϕ_s188.00000°,δ25.00000°,λ67.00000°. Principal axes: T 4.1600,Plg66.0000°,Azm320.0000°; N -0.6000,Plg9.0000°,Azm208.0000° ; P -3.5500,Plg21.0000°,Azm114.0000° $M_0$3.90000×10^{17}

IDC Error ellipse: s-maj=10.5km s-min=9.6km az=83.0.

ISC	**III**	**16 06 43 06.6–3.0**	**38.88N–.06**	**142.71E–.08**	**1–17**	**3.8b**	**25**	**1-88**	
JMA	III	16 06 43 07.1–.20	38.93N	142.77E	4–2	4.0			**¶17196358**
IDC	III	16 06 43 15.3–3.9	38.86N	142.71E	70–36	3.8,3.7			

ISC Event type ke.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=22.8km s-min=16.3km az=94.0.

JMA	**III**	**16 06 44 11.0–.20**	**36.82N**	**141.12E**	**46–2**	**2.1**			
									¶17196361

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**16 06 51 27.1–1.0**	**35.75N–.04**	**141.08E–.07**	**32–6**	**3.9b**	**41**	**0-148**	
NIED	III	16 06 51 00	35.80N	141.00E	41	4.4W			**¶16478491**
ISCJB	III	16 06 51 26.7–.60	35.73N–.04	141.02E–.08	46–5	4.0b,4.0s			
JMA	III	16 06 51 27.5–.20	35.78N	141.01E	33–1	3.5,4.0s			
IDC	III	16 06 51 29.7–2.6	35.69N	140.90E	56–24	4.0,4.0			
NEIC	III	16 06 51 29.3–1.1	35.66N	140.89E	54–9	4.5b,4.0			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ29.00000°,λ-126.00000°. NP2:ϕ_s131.00000°,δ67.00000°,λ-72.00000°. $M_0$4.07000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=172.3.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=19.2km s-min=15.0km az=70.0.

NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.7km az=70.0.

ISC	**III**	**16 06 54 07.4–1.5**	**35.79N–.06**	**141.2E–.10**	**31**		**13**	**0-56**	
IDC	III	16 06 54 01.8–4.1	35.79N	141.41E	0	4.4,4.4s			**¶602664766**
ISCJB	III	16 06 54 06.2–1.4	35.82N–.08	141.3E–.10	31	4.4s,3.6b			
JMA	III	16 06 54 09.1–.20	35.78N	141.02E	34–1	3.1,3.6b			

ISC Event type ke.

IDC Error ellipse: s-maj=118.2km s-min=33.1km az=54.0.

ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=10.3km az=162.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**16 06 59 57.3–.10**	**36.93N**	**141.12E**	**49–1**	**3.0**			
									¶17196367

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**16 07 03 42.0–.20**	**38.38N**	**142.03E**	**33–2**	**4.0**			
									¶602664759

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**16 07 07 12.4–.10**	**35.95N**	**140.98E**	**16–1**	**3.8**			
									¶16327717

JMA Event type fe.

ISC	**III**	**16 07 17 51.6–1.8**	**36.90N–.08**	**141.2E–.10**	**45–11**	**3.3b**	**15**	**0-57**	
IDC	III	16 07 17 44.3–2.5	36.93N	141.46E	0	3.3,3.3b			**¶602664718**
ISCJB	III	16 07 17 50.8–1.3	36.89N–.08	141.2E–.10	54–7	3.3b,3.3b			
JMA	III	16 07 17 52.6–.10	36.94N	141.05E	49–1	3.5,3.3b			

ISC Event type ke.

IDC Error ellipse: s-maj=64.1km s-min=27.6km az=64.0.

ISCJB Event type fe. Error ellipse: s-maj=18.3km s-min=12.3km az=167.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**16 07 33 08.5–.10**	**35.95N**	**140.98E**	**17–1**	**3.8**			
									¶602665870

JMA Event type fe.

JMA	**III**	**16 07 34 44.2–.20**	**38.52N**	**142.00E**	**33–2**	**3.7**			
									¶602665866

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**16 07 57 45.6–.30**	**39.54N**	**142.80E**	**8–3**	**3.8**			
									¶602665757

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**16 07 58 46.6–.20**	**37.81N**	**141.76E**	**13–3**	**3.8**			
									¶602665747

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**16 08 03 26.5–.86**	**39.4N–.10**	**142.71E–.07**	**18**	**3.8b**	**19**	**1-88**	
JMA	III	16 08 03 25.6–.20	39.52N	142.76E	6–3	4.0			**¶602665725**
ISCJB	III	16 08 03 25.1–.73	39.44N–.09	142.82E–.06	18	3.7b			
IDC	III	16 08 03 31.8–3.2	39.38N	142.81E	62–29	3.8,3.7			

ISC Event type ke.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=6.4km az=6.6.

IDC Error ellipse: s-maj=21.6km s-min=18.2km az=134.0.

ISC	**III**	**16 08 07 39.6–1.9**	**36.60N–.08**	**141.9E–.10**	**19**	**3.8b**	**16**	**1-57**	
IDC	III	16 08 07 31.9–2.6	36.41N	142.50E	0	3.9,3.8			**¶17196397**
JMA	III	16 08 07 41.9–.30	36.57N	141.70E	50	3.4,3.8			

ISC Event type ke.

IDC Error ellipse: s-maj=73.0km s-min=29.5km az=63.0.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

JMA	**III**	**16 08 17 27.1–.20**	**39.13N**	**142.39E**	**21–2**	**4.6**			
									¶600550081

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**16 08 30 43.4–1.9**	**36.74N–.06**	**141.2E–.10**	**35**	**3.7b**	**15**	**0-60**	
JMA	III	16 08 30 42.9–.10	36.75N	141.12E	31–1	3.5			**¶602665655**
ISCJB	III	16 08 30 43.0–1.2	36.73N–.05	141.15E–.09	35	3.8b			
IDC	III	16 08 30 52.7–3.6	35.27N	139.69E	0	3.9,3.7			

ISC Event type ke.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.2km az=4.6.

IDC Error ellipse: s-maj=131.5km s-min=14.2km az=58.0.

JMA	**III**	**16 08 30 56.5–.20**	**35.83N**	**140.93E**	**10–1**	**2.7**			
									¶600550106

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**16 08 49 14.6–.84**	**36.32N–.04**	**140.89E–.06**	**52–7**	**3.8b**	**44**	**0-147**	
NIED	III	16 08 49 00	36.30N	140.80E	56	3.9W			**¶600550140**
ISCJB	III	16 08 49 13.7–.47	36.31N–.03	140.90E–.06	60–4	3.7b			

JMA III 16 08 49 14.8–.10 36.31N 140.81E 54–1 3.9
IDC III 16 08 49 15.9–1.8 36.29N 140.81E 67–18 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ35.00000°,λ70.00000°. NP2:ϕ_s25.00000°,δ57.00000°,λ104.00000°. $M_0$9.12000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.3km az=179.0.
JMA Event type fe.
IDC Error ellipse: s-maj=17.9km s-min=11.4km az=85.0.
JMA III 16 08 59 31.4–.10 37.50N 141.31E 49–2 3.8
¶602665602
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 09 15 25.1–.56 36.96N–.06 141.49E–.06 33 4.4b 37 1-147
NIED III 16 09 15 00 36.90N 141.50E 38 4.7W **¶17196413**
ISCJB III 16 09 15 23.5–.45 36.94N–.05 141.60E–.05 33 4.4b,3.7s
JMA III 16 09 15 25.0–.20 36.98N 141.45E 46–2 4.5,3.7s
IDC III 16 09 15 29.9–3.5 36.96N 141.51E 75–31 4.5,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ5.00000°. NP2:ϕ_s91.00000°,δ88.00000°,λ113.00000°. $M_0$1.33000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.3km az=176.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.8km s-min=12.5km az=100.0.
IDC III 16 09 26 33.1–3.0 39.00N 142.93E 0 3.6,3.4b
¶17196416
IDC Error ellipse: s-maj=71.3km s-min=37.6km az=66.0.
ISC III 16 09 29 32.6–2.4 38.18N–.06 142.06E–.07 9–14 3.9b 30 1-146
NIED III 16 09 29 00 38.10N 142.10E 5 3.9W **¶602665557**
JMA III 16 09 29 32.1–.30 38.11N 142.12E 21–4 4.3
IDC III 16 09 29 38.8–3.2 38.09N 142.04E 58–29 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ40.00000°,λ-88.00000°. NP2:ϕ_s155.00000°,δ50.00000°,λ-92.00000°. $M_0$7.83000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.2km s-min=15.4km az=102.0.
JMA III 16 09 31 56.1–.20 37.52N 141.78E 33–3 3.7
¶602665556
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 09 34 54.1–3.2 39.29N–.08 142.4E–.10 23–22 3.5b 18 1-63
IDC III 16 09 34 50.2–.98 39.14N 142.69E 0 3.6,3.4 **¶17196418**
ISCJB III 16 09 34 52.1–1.8 39.25N–.06 142.55E–.09 22–11 3.4b,3.4
JMA III 16 09 34 54.2–.20 39.22N 142.40E 26–3 3.8,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=36.6km s-min=21.2km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.1km az=12.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 09 37 16.5–.59 35.15N–.05 141.24E–.08 48 3.9b 36 1-152
NIED III 16 09 37 00 35.20N 141.40E 32 4.3W **¶602666058**
IDC III 16 09 37 10.6–.64 35.17N 141.28E 0 4.1,3.9
JMA III 16 09 37 12.4–.20 35.18N 141.37E 18–3 3.6,3.9
NEIC III 16 09 37 14.9–.47 35.11N 141.24E 35 4.6b,3.9
ISCJB III 16 09 37 14.9–.45 35.18N–.04 141.15E–.07 48 4.0b,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ66.00000°,λ-3.00000°. NP2:ϕ_s318.00000°,δ87.00000°,λ-156.00000°. $M_0$3.01000×10^{15}
NEIC Event type se.
ISCJB Event type ke.
ISC III 16 09 39 34.8–1.9 36.22N–.05 141.79E–.07 2–11 3.5b 28 1-147
IDC III 16 09 39 34.4–.81 36.18N 141.90E 0 3.8,3.7 **¶600550207**
JMA III 16 09 39 37.1–.20 36.25N 141.82E 52 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=18.6km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 09 49 06.8–2.6 38.12N–.08 142.8E–.10 40–23 3.6b 26 2-89
IDC III 16 09 48 57.7–.98 37.51N 142.76E 0 3.9,3.8 **¶17196421**
JMA III 16 09 49 02.5–.40 38.05N 142.81E 21 4.2,3.8
ISCJB III 16 09 49 04.8–1.5 38.05N–.06 142.80E–.09 39–13 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 09 50 15.1–.20 38.18N 142.08E 15–3 3.8
¶602666035
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 09 56 13.5–1.7 36.50N–.05 141.1E–.10 18–6 3.5b 20 0-60
NIED III 16 09 56 00 36.50N 141.00E 32 3.6W **¶17196423**
ISCJB III 16 09 56 13.2–1.2 36.47N–.05 141.10E–.07 27–5 3.5b
JMA III 16 09 56 14.4–.10 36.52N 141.03E 34–1 3.5
IDC III 16 09 56 17.7–1.8 35.59N 140.37E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ80.00000°,λ5.00000°. NP2:ϕ_s139.00000°,δ85.00000°,λ170.00000°. $M_0$2.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=7.8km az=18.4.
JMA Event type fe.
IDC Error ellipse: s-maj=59.3km s-min=19.5km az=61.0.
JMA III 16 10 03 36.2–.20 39.21N 142.36E 32–3 3.6
¶602666016
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 10 06 39.0–1.4 36.25N–.06 142.0E–.10 23 3.7b 21 1-56
NIED III 16 10 06 00 36.30N 141.80E 8 3.8W **¶17196424**
ISCJB III 16 10 06 36.5–1.0 36.23N–.05 142.08E–.10 23 3.6b
JMA III 16 10 06 39.9–.30 36.30N 141.83E 58 3.5
IDC III 16 10 06 42.2–5.5 36.19N 141.78E 46–39 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ13.00000°,λ169.00000°. NP2:ϕ_s360.00000°,δ88.00000°,λ78.00000°. $M_0$6.01000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.4km az=8.7.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=65.9km s-min=15.3km az=81.0.
JMA III 16 10 08 49.7–.10 35.82N 140.89E 9–1 3.6
NIED III 16 10 08 00 35.80N 140.90E 11 3.7W **¶600550258**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ42.00000°,λ-35.00000°. NP2:ϕ_s288.00000°,δ67.00000°,λ-127.00000°. $M_0$4.54000×10^{14}
ISC III 16 10 15 24.0–1.1 36.00N–.04 141.47E–.08 22–7 3.8b 31 1-76
JMA III 16 10 15 25.4–.10 36.04N 141.43E 44–2 3.8 **¶17196428**
IDC III 16 10 15 28.2–3.5 35.92N 141.30E 57–30 4.3,4.2s
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=14.2km az=78.0.
ISC III 16 10 21 27.6–2.2 35.66N–.05 141.25E–.10 13–12 3.7b 18 0-56
IDC III 16 10 21 22.9–2.8 36.09N 141.86E 0 3.7,3.6b **¶600550278**
ISCJB III 16 10 21 28.6–1.7 35.65N–.05 141.2E–.10 27–8 3.6b,3.6b
JMA III 16 10 21 31.6–.10 35.62N 140.97E 27–1 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=80.4km s-min=29.4km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=18.7km s-min=6.5km az=161.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 10 27 21.0–1.8 39.2N–.20 142.3E–.10 29 4.2b 9 1-73
JMA III 16 10 27 20.6–.10 39.13N 142.31E 22–2 4.4 **¶17196433**
IDC III 16 10 27 20.3–1.1 39.79N 142.12E 0 4.2,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=40.4km s-min=23.1km az=79.0.
JMA III 16 10 32 18.9–.10 35.82N 140.89E 7–1 2.5
¶603049851
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 10 32 34.9–1.1 38.41N–.09 142.10E–.10 41 4.0b 14 1-89
IDC III 16 10 32 21.3–2.2 36.57N 141.55E 0 4.2,4.0 **¶17196437**
JMA III 16 10 32 31.5–.30 38.32N 142.27E 43 4.4,4.0
ISCJB III 16 10 32 33.5–.87 38.38N–.07 142.15E–.08 41 4.0b,4.0
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

IDC III 16 10 32 41.9–1.6 37.56N 141.92E 0 4.3,4.2b
¶603049852
IDC Error ellipse: s-maj=55.2km s-min=26.1km az=80.0.
ISC III 16 10 45 37.9–2.3 38.56N–.07 142.25E–.09 31–16 3.7b 17 1-89
IDC III 16 10 45 34.6–.85 38.59N 143.18E 0 4.0,3.8 **¶17196441**
JMA III 16 10 45 35.8–.20 38.50N 142.27E 25–3 3.7,3.8
ISCJB III 16 10 45 36.0–3.0 38.51N–.06 142.33E–.08 29–22 3.8s,3.6b
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 10 48 33.2–.20 38.79N 142.14E 36–3 3.7
¶602664631
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 10 49 10.8–.77 37.75N–.06 141.82E–.07 47–7 3.8b 33 1-146
NIED III 16 10 49 00 37.70N 141.80E 35 4.1W **¶600550318**
ISCJB III 16 10 49 09.8–1.2 37.74N–.05 141.8E–.10 55–10 3.9b,3.4s
JMA III 16 10 49 10.0–.20 37.74N 141.76E 27–3 4.3,3.4s
IDC III 16 10 49 11.0–.73 37.80N 141.85E 48–7 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ16.00000°,λ141.00000°. NP2:ϕ_s2.00000°,δ80.00000°,λ77.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=8.1km az=173.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=14.3km az=144.0.
ISC III 16 10 50 47.8–2.2 36.94N–.05 141.51E–.08 7–13 3.7b 19 1-90
IDC III 16 10 50 52.2–4.3 36.83N 141.68E 38–39 3.8,3.7 **¶17196446**
JMA III 16 10 50 52.9–.20 37.02N 141.30E 47–1 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=21.6km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 10 55 44.6–1.1 39.1N–.20 142.4E–.20 27 3.4b 7 27-63
IDC III 16 10 55 40.5–.96 39.10N 142.43E 0 3.8,3.6 **¶17196447**
ISCJB III 16 10 55 42.4–.92 39.1N–.10 142.5E–.20 27 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 11 12 02.9–1.4 37.47N–.05 141.81E–.05 20–6 3.6b 27 1-90
NIED III 16 11 12 00 37.50N 141.70E 38 4.0W **¶17196450**
IDC III 16 11 12 06.0–2.3 37.43N 141.89E 45–24 3.8,3.8
JMA III 16 11 12 05.1–.20 37.50N 141.75E 33–3 4.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ13.00000°,λ143.00000°. NP2:ϕ_s291.00000°,δ82.00000°,λ80.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=23.2km s-min=13.2km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 11 20 05.2–.50 36.23N–.03 141.17E–.04 20–3 4.9b,4.2s 670 1-147
NIED III 16 11 20 00 36.20N 141.30E 5 4.7W,4.2s **¶602443625**
BJI III 16 11 20 02.7 36.12N 141.25E 24 5.0b,4.7b
JMA III 16 11 20 03.9–.10 36.14N 141.23E 35–2 4.9,4.7b
ISCJB III 16 11 20 03.9–.64 36.29N–.03 141.12E–.02 17–4 4.8b,4.2s
IDC III 16 11 20 06.4–3.5 36.13N 141.16E 32–26 4.6,4.5
NEIC III 16 11 20 06.0–1.4 36.21N 141.07E 22–9 5.0b,4.5
GCMT III 16 11 20 06.0–.40 36.13N 141.21E 16–1 4.8W,4.5
MOS III 16 11 20 08.5–.86 36.68N 140.99E 37 5.1b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ39.00000°,λ-56.00000°. NP2:ϕ_s27.00000°,δ58.00000°,λ-115.00000°. $M_0$1.29000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=172.2.
IDC Error ellipse: s-maj=12.7km s-min=11.6km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=144.0. Recorded [3 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c13; s64,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.22±.21 $M_{\theta\theta}$1.29±.13; $M_{\phi\phi}$0.93±.12; $M_{r\theta}$-0.24±.32; $M_{\theta\phi}$0.97±.07; $M_{\phi r}$-0.04±.36; Best double couple: NP1:ϕ_s53.00000°,δ48.00000°,λ-86.00000°. NP2:ϕ_s227.00000°,δ42.00000°,λ-95.00000°. Principal axes:
T 2.1030,Plg3.0000°,Azm140.0000°; N 0.1340,Plg3.0000°,Azm231.0000°
; P -2.2370,Plg86.0000°,Azm9.0000° $M_0$2.17000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=106.5.
ISC III 16 11 37 52.1–1.2 38.84N–.05 142.59E–.07 23–7 4.1b 48 1-88
IDC III 16 11 37 52.4–.96 38.80N 142.63E 25–5 4.0,3.9 **¶16478411**
JMA III 16 11 37 52.0–.20 38.78N 142.44E 22–3 4.2,3.9
ISCJB III 16 11 37 52.2–.94 38.77N–.04 142.55E–.07 39–8 4.1b,3.9
NEIC III 16 11 37 53.6–.34 38.83N 142.62E 35 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=14.5km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=21.6.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=125.0.
JMA III 16 11 39 31.1–.30 38.20N 142.08E 11–3 4.3
¶602664438
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 11 42 10.3–1.2 35.8N–.10 141.79E–.09 23 3.5b 8 1-60
IDC III 16 11 42 06.7–1.3 35.86N 141.96E 0 3.6,3.4b **¶17196452**
ISCJB III 16 11 42 08.2–1.0 35.8N–.10 141.89E–.09 23 3.5b,3.4b
JMA III 16 11 42 10.5–.30 35.87N 141.73E 14–3 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=26.6km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=9.9km az=13.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 16 11 44 57.8–.42 37.62N–.04 141.53E–.04 44–3 4.8b,4.2s 278 1-151
NIED III 16 11 44 00 37.60N 141.50E 50 4.6W,4.2s **¶16322677**
BJI III 16 11 44 50.3 37.41N 141.83E 25 5.1b,4.9b
MOS III 16 11 44 55.1–1.0 37.66N 141.49E 33 5.1b,4.9b
NEIC III 16 11 44 57.4–.29 37.66N 141.49E 35 5.0b,4.9b
ISCJB III 16 11 44 57.3–.45 37.58N–.03 141.49E–.04 56–3 4.8b,4.0s
JMA III 16 11 44 58.3–.10 37.60N 141.49E 46–2 4.5,4.0s
IDC III 16 11 44 59.3–.45 37.55N 141.47E 60–3 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ21.00000°,λ90.00000°. NP2:ϕ_s21.00000°,δ69.00000°,λ90.00000°. $M_0$8.63000×10^{15}
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=110.4.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.2km az=141.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.4km az=111.0.
JMA III 16 11 58 41.9–.10 37.27N 141.15E 34–1 3.5
¶602664425
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 12 02 31.9–.86 35.66N–.06 141.81E–.08 22 3.8b 23 1-147
IDC III 16 12 02 29.4–.63 35.59N 141.83E 0 4.1,3.9 **¶16478584**
ISCJB III 16 12 02 30.9–.45 35.60N–.04 141.85E–.06 22 3.8b,3.9
JMA III 16 12 02 31.8–.20 35.77N 141.85E 45–4 4.6,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=18.3km s-min=14.0km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.0km az=36.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 12 02 48.4–.38 35.74N–.04 141.89E–.04 25–2 4.9b,4.3s 384 3-154
IDC III 16 12 02 44.5–.48 35.67N 141.92E 0 4.7,4.6 **¶17196454**
BJI III 16 12 02 45.8 35.77N 141.72E 18 5.1b,5.0b
ISCJB III 16 12 02 45.3–1.1 35.78N–.03 141.79E–.03 11–6 4.8b,4.3s
MOS III 16 12 02 49.9–.90 36.14N 141.79E 31 5.1b,4.3s
NEIC III 16 12 02 50.1–.15 35.70N 141.82E 35 4.9b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.5km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=155.9.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=108.7.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=159.0.
JMA III 16 12 11 51.7–.10 38.30N 142.20E 33–3 3.4
¶17196458
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 16 12 14 13.9–.10 36.54N 140.83E 52–1 3.8
¶602664415

JMA Event type fe.
JMA III 16 12 23 26.3–.30 39.03N 142.34E 31–5 3.6
¶602664401

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 16 12 30 14.7–.20 37.84N 141.85E 35–4 3.8
¶603049856

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 12 39 46.0–.62 35.64N–.06 141.99E–.07 22 4.0b 43 1-152
IDC III 16 12 39 42.6–.81 35.62N 142.00E 0 4.0,3.9 **¶600550473**
ISCJB III 16 12 39 43.8–.46 35.66N–.04 142.08E–.05 22 4.0b,3.9
JMA III 16 12 39 45.3–.20 35.78N 142.04E 37 3.4,3.9
NEIC III 16 12 39 46.5–2.0 35.64N 142.04E 26–14 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=15.1km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.8km az=37.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.1km az=118.0.
ISC III 16 12 53 50.9–1.0 36.16N–.07 141.8E–.10 35 3.6b 10 1-64
IDC III 16 12 53 46.8–.99 35.78N 142.79E 0 3.9L,3.7 **¶16453159**
JMA III 16 12 53 47.7–.30 36.12N 141.93E 58 3.4,3.7
ISCJB III 16 12 53 48.8–.85 36.12N–.06 141.91E–.08 35 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 13 26 00.3–.10 35.88N 140.90E 11–1 2.3
¶602665167
ISC III 16 13 26 36.6–.88 38.90N–.06 142.35E–.08 27 3.8b 24 1-63
IDC III 16 13 26 32.1–.91 38.83N 142.38E 0 3.8,3.8L **¶16427614**
ISCJB III 16 13 26 34.1–.62 38.86N–.05 142.58E–.07 27 3.7b,3.8L
NEIC III 16 13 26 37.1–.69 38.77N 142.25E 35 4.1b,3.8L
JMA III 16 13 26 37.8–.20 38.96N 142.36E 32–3 4.0,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=18.7km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=7.1km az=151.3.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=10.1km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 13 26 52.8–.20 35.95N 141.22E 25–2 3.7
NIED III 16 13 26 00 36.00N 141.20E 11 3.6W **¶600550574**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ45.00000°,λ-6.00000°. NP2:ϕ_s339.00000°,δ86.00000°,λ-135.00000°. $M_0$2.95000×10^{14}
ISC III 16 13 33 53.0–1.4 35.99N–.06 140.96E–.10 26–8 3.9b 21 0-58
IDC III 16 13 33 49.0–2.6 35.94N 141.13E 0 3.8,3.8b **¶16427615**
JMA III 16 13 33 52.8–.10 35.98N 140.99E 32–1 3.4,3.8b
ISCJB III 16 13 33 52.5–.00 35.95N–.06 141.0E–.10 37–7 4.0b,3.8b
NEIC III 16 13 33 57.6–3.4 35.78N 140.59E 55–20 4.2b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=76.7km s-min=29.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=8.0km az=148.9.
NEIC Event type se. Error ellipse: s-maj=49.4km s-min=13.7km az=69.0.
ISC III 16 13 37 42.2–1.8 37.1N–.10 141.82E–.10 19 12 1-61
IDC III 16 13 37 42.7–6.5 36.51N 142.10E 0 3.6,3.4L **¶602443628**
JMA III 16 13 37 47.0–.30 37.10N 141.67E 34–2 3.3,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=142.4km s-min=42.9km az=33.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 13 39 01.1–.52 35.82N–.03 140.59E–.04 52–4 5.6b,4.5s 855 0-158
BJI III 16 13 38 51.5 35.70N 141.07E 29 5.5b,5.3b **¶602442411**
NIED III 16 13 39 00 36.00N 140.50E 56 5.2W,5.3b
ISCJB III 16 13 39 02.0–.37 35.81N–.02 140.36E–.03 68–2 5.4b,5.3b
MOS III 16 13 39 02.2–.91 35.88N 140.31E 69 5.8b,4.5s
JMA III 16 13 39 02.5–.10 35.92N 140.44E 53–2 5.4,4.5s
IDC III 16 13 39 03.6–1.1 35.82N 140.40E 70–9 5.4,5.2
NEIC III 16 13 39 05.3–.58 35.82N 140.31E 85–5 5.4b,5.2
GCMT III 16 13 39 05.8–.20 35.88N 140.54E 54–0 5.3W,5.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ24.00000°,λ116.00000°. NP2:ϕ_s12.00000°,δ69.00000°,λ79.00000°. $M_0$8.08000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=18.4.
MOS Error ellipse: s-maj=8.5km s-min=4.8km az=108.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ87.00000°,λ90.00000°. NP2: ϕ_s192.00000°,δ3.00000°,λ81.00000°. Principal axes: T Plg48.0000°,Azm292.0000° ; N Plg0.0000°,Azm21.0000°; P Plg42.0000°,Azm111.0000°
IDC Error ellipse: s-maj=9.8km s-min=6.3km az=71.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=107.0. Felt at Ibaraki, Oyama, Yamato, Yokosuka and Zama. Recorded [4 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c136; s111,c203; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86±.02 $M_{\theta\theta}$-0.09±.02; $M_{\phi\phi}$-0.77±.02; $M_{r\theta}$0.14±.01; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$0.61±.01; Best double couple: NP1:ϕ_s14.00000°,δ63.00000° ,λ89.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ93.00000°. Principal axes: T 1.0660,Plg72.0000°,Azm281.0000°; N -0.0270,Plg1.0000°,Azm15.0000° ; P -1.0390,Plg18.0000°,Azm105.0000° $M_0$1.05300×10^{17}
ISC III 16 13 50 27.8–.68 37.09N–.05 141.31E–.06 33 3.9b 42 0-147
IDC III 16 13 50 23.0–.82 37.13N 141.29E 0 4.0,3.9 **¶602665109**
ISCJB III 16 13 50 25.7–.51 37.07N–.04 141.49E–.05 33 4.0b,3.9
NEIC III 16 13 50 28.4–1.0 37.12N 141.33E 40–9 4.3b,3.9
JMA III 16 13 50 29.9–.10 37.05N 141.14E 50–1 4.1,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=21.4km s-min=19.3km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=43.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.3km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 13 54 03.6–1.2 37.39N–.03 141.37E–.05 18–7 4.7b,3.8s 198 1-147
NIED III 16 13 54 00 37.30N 141.40E 26 4.5W,3.8s **¶602665104**
IDC III 16 13 54 00.9–.44 37.37N 141.36E 0 4.6,4.5
MOS III 16 13 54 04.4–1.3 37.50N 141.37E 33 4.9b,4.5
JMA III 16 13 54 04.9–.10 37.36N 141.34E 29–1 4.6,4.5
ISCJB III 16 13 54 05.5–.73 37.36N–.03 141.33E–.04 33–5 4.6b,3.7s
NEIC III 16 13 54 06.5–.58 37.42N 141.23E 35–5 4.8b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ29.00000°,λ-61.00000°. NP2:ϕ_s236.00000°,δ65.00000°,λ-105.00000°. $M_0$6.42000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.4km az=115.0.
MOS Error ellipse: s-maj=8.7km s-min=5.5km az=87.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=139.5.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.5km az=137.0. Recorded [3 JMA] in Fukushima.
JMA III 16 13 55 11.1–.20 36.53N 141.73E 50 3.7
¶602443627
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 14 14 14.7–1.9 36.23N–.05 141.02E–.08 24–14 3.6b 19 1-60
ISCJB III 16 14 14 14.9–.99 36.19N–.04 141.03E–.08 41–10 3.5b **¶602665040**
JMA III 16 14 14 16.4–.10 36.21N 140.91E 45–1 3.7
IDC III 16 14 14 17.0–3.5 36.17N 141.00E 42–31 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=7.5km az=4.0.
JMA Event type fe.
IDC Error ellipse: s-maj=37.5km s-min=14.7km az=79.0.
ISC III 16 14 17 46.8–1.2 35.84N–.04 140.90E–.07 15–8 3.6b 26 0-148
NIED III 16 14 17 00 35.90N 140.90E 8 3.8W **¶17196469**
IDC III 16 14 17 44.2–.70 35.74N 140.92E 0 3.9,3.8
JMA III 16 14 17 46.7–.10 35.86N 140.94E 15–1 4.2,3.8
ISCJB III 16 14 17 46.2–.71 35.81N–.04 140.95E–.07 23–4 3.6b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ31.00000°,λ-95.00000°. NP2:ϕ_s46.00000°,δ59.00000°,λ-87.00000°. $M_0$6.13000×10^{14}

JMA Event type fe.
ISCJB Event type fe.
ISC III 16 14 19 39.4–1.1 35.88N–.05 140.54E–.08 50 3.7b 15 0-60
ISCJB III 16 14 19 38.0–.82 35.85N–.05 140.63E–.08 50 3.6b **¶17196470**
JMA III 16 14 19 39.9–.10 35.90N 140.48E 49–2 2.8
IDC III 16 14 19 39.4–2.5 35.95N 140.04E 59–24 3.8L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.7km az=170.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=40.3km s-min=13.8km az=80.0.
JMA III 16 14 25 36.3–.50 38.37N 142.35E 22 3.8
¶603049859
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 16 14 28 19.0–1.5 36.43N–.07 141.71E–.09 34–4 4.2b 24 1-60
NIED III 16 14 28 00 36.30N 141.40E 20 4.2W **¶16427621**
IDC III 16 14 28 14.1–1.2 36.53N 141.99E 0 4.3,4.1
NEIC III 16 14 28 18.9–.70 36.54N 141.87E 35 4.6b,4.1
ISCJB III 16 14 28 20.0–1.1 36.34N–.05 141.60E–.09 51–10 4.2b,4.1
JMA III 16 14 28 21.6–.10 36.34N 141.42E 49–3 4.5,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ55.00000°,λ150.00000°. NP2:ϕ_s328.00000°,δ65.00000°,λ39.00000°. $M_0$2.15000×10^{15}
IDC Error ellipse: s-maj=32.4km s-min=24.0km az=102.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=7.6km az=167.8.
JMA Event type fe.
ISC III 16 14 38 12.2–.60 39.24N–.07 142.98E–.06 16 4.3b,4.2s 72 1-88
NIED III 16 14 38 00 39.30N 142.90E 23 4.3W,4.2s **¶16339092**
ISCJB III 16 14 38 10.0–.38 39.19N–.04 143.01E–.05 16 4.3b,4.2s
JMA III 16 14 38 12.5–.30 39.30N 142.89E 14–3 4.4,4.2s
NEIC III 16 14 38 16.2–.90 39.25N 142.90E 50–7 4.7b,4.2s
IDC III 16 14 38 16.3–2.2 39.19N 142.88E 50–20 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ31.00000°,λ-92.00000°. NP2:ϕ_s265.00000°,δ59.00000°,λ-89.00000°. $M_0$2.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=165.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.3km az=123.0.
IDC Error ellipse: s-maj=15.5km s-min=12.7km az=104.0.
JMA III 16 14 38 34.2–.10 35.81N 140.89E 10–1 2.5
¶602664999
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 14 46 09.0–.42 38.55N–.03 141.86E–.03 44–3 5.3b,4.5s 1105 1-155
NIED III 16 14 46 00 38.50N 141.80E 50 5.2W,4.5s **¶16327735**
BJI III 16 14 46 07.1 38.50N 141.70E 30 5.2b,5.1b
MOS III 16 14 46 08.1–.94 38.67N 141.74E 41 5.5b,4.4s
ISCJB III 16 14 46 08.9–.45 38.55N–.02 141.71E–.02 50–3 5.3b,4.5s
JMA III 16 14 46 10.0–.20 38.54N 141.80E 54–2 5.3,4.5s
IDC III 16 14 46 10.9–1.5 38.56N 141.71E 56–12 5.2,5.0
GCMT III 16 14 46 11.4–.20 38.61N 141.86E 51–0 5.2W,5.0
NEIC III 16 14 46 11.4–.44 38.54N 141.66E 62–4 5.2b,5.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ20.00000°,λ82.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ93.00000°. $M_0$6.22000×10^{16}
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=98.5.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=150.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=10.1km az=97.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s77,c124; s100,c191; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.59±.01; $M_{r\theta}$0.27±.01; $M_{\theta\phi}$-0.17±.01; $M_{\phi r}$0.49±.01; Best double couple: NP1:ϕ_s24.00000°,δ65.00000° ,λ96.00000°. NP2:ϕ_s191.00000°,δ26.00000°,λ78.00000°. Principal axes: T 0.8990,Plg70.0000°,Azm305.0000°; N -0.0560,Plg5.0000°,Azm202.0000° ; P -0.8440,Plg20.0000°,Azm110.0000° $M_0$0.87100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=136.0. Felt at Misawa. Recorded [4 JMA] in Iwate.
ISC III 16 14 57 36.8–1.3 38.24N–.07 142.8E–.10 18 3.7b 15 2-74
IDC III 16 14 57 33.0–1.9 38.30N 143.09E 0 3.8,3.7 **¶17196475**
JMA III 16 14 57 35.5–.40 38.37N 142.96E 5 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=57.1km s-min=22.9km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 16 15 08 27.5–.78 38.36N–.08 141.77E–.08 35 3.9b 32 1-77
IDC III 16 15 08 22.1–.78 38.33N 141.84E 0 3.9,3.8 **¶16427627**
ISCJB III 16 15 08 25.0–.58 38.27N–.06 141.86E–.07 35 4.0b,3.8
JMA III 16 15 08 26.0–.10 38.37N 141.88E 28–2 4.1,3.8
NEIC III 16 15 08 28.1–.77 38.30N 141.74E 44–6 4.8b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=17.2km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.1km az=136.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.0km az=128.0.
ISC III 16 15 21 28.3–1.8 35.87N–.05 141.02E–.09 12–8 15 0-60
IDC III 16 15 21 22.9–8.9 36.24N 141.52E 0 3.4,3.2 **¶17196477**
ISCJB III 16 15 21 29.2–1.3 35.83N–.05 140.98E–.10 13–6 3.3b,3.2
JMA III 16 15 21 30.3–.10 35.81N 140.89E 10–1 3.5,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=203.9km s-min=38.9km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.5km az=1.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 16 15 26 44.9 36.79N 140.57E 6–1 2.2
¶603145372
JMA III 16 15 27 11.8 36.79N 140.57E 6–1 2.6
¶603049860
ISC III 16 15 36 04.8–2.0 36.37N–.05 141.79E–.08 2–12 3.6b 26 1-60
IDC III 16 15 36 02.9–2.1 36.45N 142.18E 0 3.7,3.7 **¶600550850**
JMA III 16 15 36 09.2–.20 36.45N 141.82E 59 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=55.7km s-min=21.3km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 15 48 33.1–1.7 35.59N–.06 141.2E–.10 23–10 3.7b 22 0-59
IDC III 16 15 48 29.3–1.3 35.61N 141.37E 0 3.7b,3.7 **¶17196482**
ISCJB III 16 15 48 31.8–1.4 35.59N–.04 141.30E–.10 28–7 3.6b,3.7
JMA III 16 15 48 32.3–.20 35.61N 141.27E 20–2 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=38.3km s-min=20.5km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=6.7km az=167.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 15 50 08.8–2.4 36.31N–.05 141.78E–.10 24–15 3.5b 25 1-60
IDC III 16 15 50 05.8–1.9 36.16N 141.88E 0 3.6,3.6L **¶600550885**
ISCJB III 16 15 50 08.8–1.2 36.29N–.04 141.78E–.09 41–12 3.5b,3.6L
JMA III 16 15 50 09.9–.20 36.40N 141.67E 54 3.6,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=47.1km s-min=21.8km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.2km az=169.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 16 02 09.1–1.0 36.8N–.10 141.55E–.10 33 3.5b 11 1-64
IDC III 16 16 02 04.4–1.2 36.81N 141.57E 0 3.7,3.5b **¶600550897**
ISCJB III 16 16 02 07.3–.94 36.85N–.08 141.5E–.10 33 3.5s,3.4b
JMA III 16 16 02 13.2–.30 37.33N 141.76E 26 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=22.7km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=11.9km az=10.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 16 16 19 37.6–.20 38.31N 142.13E 33–4 3.5
¶602664234
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 16 19 46.5 36.73N 140.63E 7 0.9
¶602664230
JMA III 16 16 25 53.2–.20 38.27N 141.86E 43–3 3.5

¶602664219

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 16 34 32.4–.20 39.28N 142.39E 33–2 3.9

¶602664204

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 16 44 14.7–.30 39.70N 142.73E 19–3 3.7

¶602664185

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 17 14 05.2–1.0 36.72N–.03 140.56E–.05 7–9 18 0-60
ISCJB III 16 17 14 04.2–.85 36.69N–.04 140.68E–.07 13–4 3.5b **¶602664096**
IDC III 16 17 14 05.3–5.0 36.52N 140.53E 0 3.6,3.4
JMA III 16 17 14 05.0–.10 36.73N 140.58E 2–2 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.7km az=26.0.
IDC Error ellipse: s-maj=105.5km s-min=27.9km az=25.0.
JMA Event type fe.
JMA III 16 17 19 15.2–.10 35.80N 140.88E 9–1 3.1

¶602664090

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 17 19 28.1–.82 35.52N–.04 140.92E–.06 26–5 4.7b,4.2s 147 0-148
NIED III 16 17 19 00 35.60N 140.90E 29 4.7W,4.2s **¶600551042**
MOS III 16 17 19 27.0–1.1 35.48N 140.84E 33 4.9b,4.2s
ISCJB III 16 17 19 27.6–.22 35.53N–.03 140.88E–.04 33 4.6b,4.1s
JMA III 16 17 19 27.9–.10 35.63N 140.94E 26–1 4.7,4.1s
NEIC III 16 17 19 27.3–2.2 35.52N 140.86E 20–14 4.8b,4.1s
IDC III 16 17 19 30.0–1.7 35.48N 140.92E 41–16 4.5,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ58.00000°,λ144.00000°. NP2:ϕ_s29.00000°,δ60.00000°,λ38.00000°. $M_0$1.26000×10^{16}
MOS Error ellipse: s-maj=9.8km s-min=6.7km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.9km az=6.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=111.0. Felt at Oyama.
IDC Error ellipse: s-maj=13.2km s-min=9.6km az=91.0.
ISC III 16 17 26 03.7–1.1 34.75N–.05 140.98E–.06 28–7 4.1b,4.0s 47 0-148
JMA III 16 17 26 00.0–.30 34.82N 141.28E 38–3 3.8,4.0s **¶16437918**
ISCJB III 16 17 26 02.8–.76 34.70N–.04 141.00E–.07 36–6 4.1b,3.8s
IDC III 16 17 26 04.6–3.6 34.73N 140.99E 34–28 4.0,4.0
NEIC III 16 17 26 04.7–.30 34.74N 140.98E 35 4.7b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.6km az=170.9.
IDC Error ellipse: s-maj=17.1km s-min=13.7km az=95.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.3km az=86.0.
ISC III 16 17 39 24.2–2.3 35.66N–.04 141.73E–.08 20–15 3.7b 30 1-76
IDC III 16 17 39 20.8–1.0 35.66N 141.85E 0 3.8,3.8L **¶600551080**
JMA III 16 17 39 23.9–.20 35.75N 141.81E 33–3 3.6,3.8L
ISCJB III 16 17 39 23.6–1.5 35.67N–.04 141.83E–.07 32–10 3.6b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 17 47 40.3–2.5 36.34N–.04 141.75E–.07 28–18 3.8b 50 1-147
NIED III 16 17 47 00 36.40N 141.70E 32 3.9W **¶600551088**
IDC III 16 17 47 36.0–.59 36.29N 141.76E 0 4.1,4.0L
JMA III 16 17 47 40.7–.10 36.38N 141.65E 61–3 4.1,4.0L
ISCJB III 16 17 47 40.7–.87 36.33N–.03 141.73E–.07 45–8 3.8b,4.0L
NEIC III 16 17 47 42.2–1.4 36.29N 141.71E 44–13 4.5b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ27.00000°,λ86.00000°. NP2:ϕ_s337.00000°,δ63.00000°,λ92.00000°. $M_0$7.59000×10^{14}
IDC Error ellipse: s-maj=16.7km s-min=13.9km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.3km az=164.9.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=10.1km az=87.0.
ISC III 16 17 52 55.4–1.3 35.60N–.07 141.0E–.10 33 3.4b 16 0-59
ISCJB III 16 17 52 54.2–1.4 35.62N–.08 141.1E–.10 33 3.3b **¶17196497**
JMA III 16 17 52 54.9–.10 35.63N 141.05E 26–1 3.2
IDC III 16 17 52 59.7–3.2 34.62N 139.19E 0 3.4,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=7.5km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=122.1km s-min=21.7km az=69.0.
JMA III 16 17 53 01.3–.10 37.09N 141.12E 30–1 2.3

¶603049861

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 16 18 04 37.6–.10 36.76N 140.91E 50–1 2.5

¶17196500

JMA III 16 18 20 53.0–.20 38.11N 141.79E 44 4.0

¶602664005

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 18 21 22.1–.10 38.54N 141.83E 37–2 3.9

¶602664002

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 18 29 00.3–2.4 38.77N–.07 142.4E–.10 49–20 3.9b 23 1-63
ISCJB III 16 18 28 58.9–1.4 38.74N–.05 142.4E–.10 55–10 3.8b **¶17196505**
JMA III 16 18 28 59.6–.20 38.75N 142.37E 39–3 4.1
IDC III 16 18 29 03.7–3.3 38.69N 142.37E 83–28 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=7.5km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.3km s-min=17.9km az=80.0.
ISC III 16 18 32 29.3–.81 36.28N–.05 141.88E–.07 23 3.7b 22 1-90
IDC III 16 18 32 25.6–.86 36.17N 142.02E 0 3.9,3.9L **¶600551134**
ISCJB III 16 18 32 27.4–.66 36.27N–.05 141.95E–.06 23 3.5b,3.9L
JMA III 16 18 32 29.3–.20 36.31N 141.79E 75 3.5,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=25.3km s-min=17.7km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.3km az=41.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 18 36 32.0–1.6 39.78N–.07 142.55E–.09 48–13 4.2b 54 1-90
NIED III 16 18 36 00 39.80N 142.70E 26 4.1W **¶602663976**
JMA III 16 18 36 28.4–.20 39.79N 142.70E 23–2 4.4
NEIC III 16 18 36 29.9–.64 39.72N 142.83E 35 4.4b
ISCJB III 16 18 36 29.7–.97 39.75N–.05 142.69E–.08 47–6 4.2b,3.8s
IDC III 16 18 36 32.7–2.6 39.70N 142.73E 62–22 4.1,4.0L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ33.00000°,λ171.00000°. NP2:ϕ_s353.00000°,δ85.00000°,λ57.00000°. $M_0$1.77000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=7.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.2km az=20.9.
IDC Error ellipse: s-maj=20.9km s-min=12.4km az=93.0.
ISC III 16 18 38 50.7–1.3 36.85N–.05 140.71E–.05 10–10 3.9b 19 0-57
IDC III 16 18 38 49.0–1.4 36.81N 140.87E 0 4.0,4.0L **¶17196510**
JMA III 16 18 38 51.5 36.90N 140.72E 12–1 4.0,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=24.9km az=148.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ65.00000°,λ-145.00000°. NP2:ϕ_s50.00000°,δ58.00000°,λ-30.00000°. Principal axes: T Plg4.0000°,Azm282.0000°; N Plg48.0000°,Azm188.0000°; P Plg42.0000°,Azm16.0000°
ISC III 16 18 52 46.0–1.5 37.18N–.05 141.80E–.06 20–5 3.4b 21 1-77
IDC III 16 18 52 42.8–.96 37.12N 142.10E 0 3.8L,3.7 **¶17196513**
JMA III 16 18 52 47.6–.30 37.18N 141.83E 40–3 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=19.1km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 19 00 35.4–.43 37.67N–.05 141.65E–.05 60 4.5b,3.4s 128 1-151
NIED III 16 19 00 00 37.60N 141.60E 44 4.4W,3.4s **¶600551184**
MOS III 16 19 00 30.9–1.0 37.70N 141.67E 33 5.0b,3.4s
NEIC III 16 19 00 32.8–.30 37.66N 141.73E 35 4.6b,3.4s
ISCJB III 16 19 00 33.5–.30 37.64N–.03 141.62E–.04 60 4.5b,3.3s
JMA III 16 19 00 34.8–.10 37.65N 141.57E 45–3 4.5,3.3s
IDC III 16 19 00 34.5–1.5 37.64N 141.60E 50–15 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ30.00000°,λ91.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ89.00000°. $M_0$5.25000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.5km az=96.3.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=135.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=44.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=9.9km az=97.0.
JMA III 16 19 12 34.7–.10 37.43N 141.22E 28–1 3.5

¶602664506

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 19 18 28.5–1.3 35.40N–.06 141.26E–.10 25 3.4b 15 0-55
IDC III 16 19 18 23.6–3.1 35.41N 141.54E 0 3.5,3.5b **¶17196515**
ISCJB III 16 19 18 26.7–1.1 35.42N–.06 141.35E–.10 25 3.4b,3.5b
JMA III 16 19 18 28.6–.20 35.42N 141.19E 26–2 2.7,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=101.9km s-min=26.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=8.5km az=154.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 16 19 41 45.1–.40 38.34N 142.25E 43 3.5

¶602663930

JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC III 16 19 56 44.8–8.2 38.74N 142.77E 0 4.0b,3.8

¶17196519

IDC Error ellipse: s-maj=131.3km s-min=50.1km az=107.0.
ISC III 16 20 01 13.3–1.2 36.02N–.09 141.20E–.09 31 11 0-147
IDC III 16 20 01 09.4–1.3 35.95N 141.42E 0 3.5,3.3b **¶600551340**
ISCJB III 16 20 01 12.6–1.1 36.06N–.08 141.23E–.09 31 3.5b,3.3b
JMA III 16 20 01 14.5–.20 36.04N 141.11E 39–2 2.8,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=31.5km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=9.1km az=36.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 16 20 13 38.3–.10 39.33N 142.08E 47–2 3.5

¶602663839

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 16 20 25 39.2–1.4 38.04N–.05 141.70E–.09 55–12 3.8b 41 1-146
ISCJB III 16 20 25 37.5–.95 38.02N–.04 141.72E–.09 57–8 3.9b **¶600551396**
JMA III 16 20 25 38.3–.10 38.04N 141.67E 51–3 4.0
IDC III 16 20 25 40.2–2.0 37.99N 141.67E 67–19 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.7km az=12.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=12.1km az=89.0.
ISC III 16 20 38 45.6–2.9 39.21N–.08 142.6E–.10 10–15 3.5b 16 1-59
ISCJB III 16 20 38 46.3–2.0 39.27N–.06 142.74E–.09 19–12 3.6b **¶17196524**
JMA III 16 20 38 47.0–.20 39.24N 142.66E 20–3 3.8
IDC III 16 20 38 49.9–1.2 39.79N 141.94E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=9.7km az=30.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=32.4km s-min=18.7km az=84.0.
JMA III 16 20 43 34.3–.20 36.47N 141.66E 23–5 3.0

¶603049863

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 20 51 22.0–.75 38.12N–.05 142.15E–.06 14 3.7b 27 1-146
ISCJB III 16 20 51 21.1–.60 38.26N–.04 142.35E–.06 14 3.7b **¶17196533**
JMA III 16 20 51 23.9–.30 38.29N 142.24E 34 4.2
IDC III 16 20 51 29.5–2.6 38.19N 142.29E 72–24 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.0km az=34.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=23.6km s-min=16.3km az=86.0.
ISC III 16 21 04 26.9–1.3 35.63N–.06 141.08E–.08 33 15 0-56
IDC III 16 21 04 21.2–3.9 35.69N 141.45E 0 3.6,3.4b **¶17196536**
ISCJB III 16 21 04 25.9–1.1 35.64N–.06 141.10E–.10 33 3.4b,3.4b
JMA III 16 21 04 26.9–.20 35.63N 140.99E 28–1 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=110.4km s-min=32.4km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.3km az=154.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 21 11 27.0–1.3 38.70N–.09 142.2E–.10 41 3.3b 9 1-59
ISCJB III 16 21 11 24.9–1.2 38.66N–.08 142.3E–.10 41 3.3b **¶17196542**
JMA III 16 21 11 27.2–.20 38.68N 142.12E 38–3 3.6
IDC III 16 21 11 29.3–4.2 38.62N 142.04E 66–39 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=12.0km az=32.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=39.6km s-min=24.6km az=98.0.
JMA III 16 21 11 42.3 36.48N 141.01E 39–1 1.6

¶602663733

ISC III 16 21 16 13.0–.98 36.87N–.03 140.69E–.05 14–6 4.0b 50 0-83
IDC III 16 21 16 10.7–.82 36.86N 140.77E 0 4.0L,3.9 **¶602443641**
ISCJB III 16 21 16 12.1–.64 36.86N–.03 140.81E–.05 22–3 4.1b,3.9
JMA III 16 21 16 13.4 36.88N 140.71E 12–1 3.9,3.9
NEIC III 16 21 16 18.6–1.4 36.86N 140.61E 59–12 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=18.9km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.6km az=14.1.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=7.0km az=73.0.
JMA III 16 21 17 23.5–.10 36.80N 141.14E 34–1 3.8

¶602663715

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 21 18 53.4–1.1 38.22N–.07 141.95E–.08 30 3.7b 15 1-58
NIED III 16 21 18 00 38.20N 142.10E 5 3.9W **¶17196543**
IDC III 16 21 18 49.0–1.2 38.14N 142.06E 0 3.8,3.6b
JMA III 16 21 18 49.0–.30 38.15N 142.14E 18–4 4.0,3.6b
ISCJB III 16 21 18 51.3–.86 38.17N–.06 142.12E–.07 30 3.6b,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ34.00000°,λ-92.00000°. NP2:ϕ_s160.00000°,δ56.00000°,λ-89.00000°. $M_0$7.79000×10^{14}
ISCJB Event type ke.
JMA III 16 21 47 39.8 36.38N 141.16E 25–1 3.7

¶603049865

JMA Event type fe.
ISC III 16 21 58 44.7–1.2 37.32N–.08 141.98E–.09 24 3.8b 15 1-57
IDC III 16 21 58 40.6–1.4 37.24N 142.30E 0 3.9,3.9b **¶600551565**
ISCJB III 16 21 58 43.2–1.0 37.33N–.07 142.04E–.08 24 4.0b,3.9b
JMA III 16 21 58 45.0–.20 37.37N 141.90E 18–2 3.9,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=27.7km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.9km az=140.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 16 22 05 04.1 36.69N 140.58E 4 3.3

¶602663615

ISC III 16 22 05 06.1–.46 36.03N–.05 141.01E–.07 31 4.8b 84 0-147
IDC III 16 22 05 01.0–.85 36.00N 141.12E 0 4.7,4.5 **¶16478683**
NEIC III 16 22 05 03.4–4.7 36.02N 140.96E 13–29 4.9b,4.5
ISCJB III 16 22 05 04.3–.34 36.06N–.04 141.06E–.05 31 4.7b,3.8s
JMA III 16 22 05 04.9–.10 36.06N 141.06E 40–1 4.5,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=17.6km az=11.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=8.8km az=88.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.8km az=2.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 22 13 53.8–1.4 36.74N–.06 140.71E–.09 9–8 3.5b 13 0-57
ISCJB III 16 22 13 52.8–1.4 36.65N–.07 140.78E–.10 15–5 3.3b **¶600551580**

IDC III 16 22 13 52.5–1.9 36.66N 140.71E 0 3.5,3.4
JMA III 16 22 13 54.7 36.75N 140.58E 3–1 2.9,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=8.2km az=41.0.
IDC Error ellipse: s-maj=39.6km s-min=27.2km az=56.0.
JMA Event type fe.
JMA III 16 22 33 32.4–.10 39.27N 142.38E 30–2 3.8
NIED III 16 22 33 00 39.30N 142.40E 32 4.1W **¶600551604**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ27.00000°,λ-119.00000°. NP2:ϕ_s253.00000°,δ67.00000°,λ-76.00000°. $M_0$1.40000×10^{15}
JMA III 16 22 38 39.5–.30 39.59N 142.76E 14–3 3.6
¶602663592
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 16 22 43 44.5–.81 37.5N–.10 141.91E–.07 24 3.8b 22 1-146
NIED III 16 22 43 00 37.60N 141.90E 5 3.8W **¶602663583**
IDC III 16 22 43 40.7–.78 37.55N 142.05E 0 4.0,3.8
JMA III 16 22 43 42.5–.20 37.60N 141.89E 3–3 4.1,3.8
ISCJB III 16 22 43 42.6–.65 37.59N–.08 142.06E–.06 24 3.8b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ32.00000°,λ-92.00000°. NP2:ϕ_s237.00000°,δ58.00000°,λ-89.00000°. $M_0$5.67000×10^{14}
ISCJB Event type ke.
ISC III 16 22 48 25.0–.61 37.03N–.05 141.87E–.05 26–3 4.4b 63 1-146
NIED III 16 22 48 00 37.10N 141.70E 29 4.1W **¶600551637**
ISCJB III 16 22 48 25.6–.92 36.96N–.04 141.83E–.07 46–8 4.4b
JMA III 16 22 48 26.5–.20 37.10N 141.73E 39–3 4.4
NEIC III 16 22 48 26.4–.29 36.96N 141.92E 35 4.7b
IDC III 16 22 48 26.6–.74 36.97N 141.85E 38–6 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ21.00000°,λ109.00000°. NP2:ϕ_s201.00000°,δ71.00000°,λ83.00000°. $M_0$1.81000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.9km az=6.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=145.0.
IDC Error ellipse: s-maj=20.5km s-min=14.3km az=118.0.
ISC III 16 22 53 06.3–2.7 36.31N–.04 141.83E–.06 27–18 4.5b 105 1-147
NIED III 16 22 53 00 36.40N 141.80E 23 4.4W **¶602663557**
IDC III 16 22 53 02.1–.49 36.29N 141.85E 0 4.4,4.3
JMA III 16 22 53 06.1–.20 36.38N 141.79E 62–5 4.5,4.3
ISCJB III 16 22 53 06.9–.79 36.25N–.03 141.75E–.06 44–7 4.5s,4.5b
NEIC III 16 22 53 08.3–.87 36.28N 141.78E 41–8 4.7b,4.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ43.00000°,λ-68.00000°. NP2:ϕ_s210.00000°,δ51.00000°,λ-109.00000°. $M_0$4.44000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.4km az=175.3.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.0km az=94.0.
JMA III 16 22 57 16.1–.10 36.76N 141.11E 32–2 2.2
¶602663555
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 16 22 59 22.5–.30 39.69N 142.70E 29–3 3.5
¶17196563
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 16 23 01 14.4–.20 37.91N 141.76E 46–3 3.6
¶602663546
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 23 03 13.8–.48 38.61N–.05 142.16E–.07 41 4.6b 113 1-145
NIED III 16 23 03 00 38.60N 142.20E 41 4.3W **¶16461827**
IDC III 16 23 03 07.8–.58 38.65N 142.09E 0 4.4,4.3
ISCJB III 16 23 03 12.1–.28 38.63N–.04 142.19E–.04 41 4.8s,4.5b
JMA III 16 23 03 13.6–.20 38.65N 142.15E 41–3 4.3,4.5b
NEIC III 16 23 03 13.5–.25 38.69N 142.10E 35 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ101.00000°. $M_0$2.73000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=14.5km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=140.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.6km az=145.0.
ISC III 16 23 11 41.5–.57 36.61N–.07 141.63E–.06 26 4.5b 86 1-147
IDC III 16 23 11 36.6–.74 36.44N 141.73E 0 4.2,4.1 **¶602663523**
ISCJB III 16 23 11 39.9–.39 36.63N–.05 141.81E–.05 26 4.5s,4.3b
JMA III 16 23 11 40.3–.40 36.70N 141.89E 36 4.4,4.3b
NEIC III 16 23 11 42.2–.30 36.48N 141.65E 35 4.7b,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=18.1km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=163.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.9km az=156.0.
ISC III 16 23 28 19.2–2.2 36.18N–.08 140.89E–.09 32–13 3.7b 18 1-60
NIED III 16 23 28 00 36.10N 141.00E 35 3.9W **¶600551715**
IDC III 16 23 28 09.6–2.1 36.95N 141.81E 0 3.8L,3.7
JMA III 16 23 28 19.3–.10 36.14N 141.00E 38–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ47.00000°,λ-51.00000°. NP2:ϕ_s167.00000°,δ56.00000°,λ-124.00000°. $M_0$7.32000×10^{14}
IDC Error ellipse: s-maj=62.5km s-min=22.6km az=63.0.
JMA Event type fe.
JMA III 16 23 30 18.7–.10 37.33N 141.50E 44–3 3.6
¶602663479
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 23 38 18.9–.29 39.16N–.03 142.66E–.03 26–1 5.7b,5.2s 1677 1-161
NIED III 16 23 38 00 39.20N 142.70E 26 5.3W,5.2s **¶16329751**
BJI III 16 23 38 16.1 39.08N 142.68E 26 5.4b,5.2b
JMA III 16 23 38 17.5–.20 39.16N 142.73E 22–2 5.5,5.2b
ISCJB III 16 23 38 18.2–.68 39.10N–.02 142.61E–.02 30–4 5.6b,5.2s
MOS III 16 23 38 18.3–.87 39.28N 142.62E 27 5.8b,5.2s
GCMT III 16 23 38 20.4–.20 39.29N 142.69E 30–0 5.3W,5.2s
NEIC III 16 23 38 20.4–.25 39.13N 142.53E 35–1 5.7b,5.3W
IDC III 16 23 38 21.7–1.8 39.15N 142.63E 46–16 5.3,5.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ31.00000°,λ-73.00000°. NP2:ϕ_s245.00000°,δ61.00000°,λ-100.00000°. $M_0$1.02000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=159.1.
MOS Error ellipse: s-maj=5.4km s-min=3.5km az=97.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c145; s100,c182;Duration: 1ś1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.99±.03 $M_{\theta\theta}$0.86±.02; $M_{\phi\phi}$0.12±.02; $M_{r\theta}$0.35±.02; $M_{\theta\phi}$0.50±.01; $M_{\phi r}$0.42±.03; Best double couple: NP1:ϕ_s232.00000°,δ59.00000°,λ-103.00000°. NP2:ϕ_s75.00000°,δ33.00000°,λ-70.00000°. Principal axes: T 1.2330,Plg13.0000°,Azm331.0000°; N -0.0830,Plg11.0000°,Azm239.0000°; P -1.1490,Plg73.0000°,Azm110.0000° $M_0$1.19100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=139.0. Felt at Misawa. Recorded [3 JMA] in Iwate. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.17 $M_{\theta\theta}$0.53 $M_{\phi\phi}$0.64 $M_{r\theta}$0.26 $M_{\theta\phi}$0.62 $M_{\phi r}$0.30 Best double couple: NP1:ϕ_s43.00000°,δ36.00000°,λ-89.00000°. NP2:ϕ_s222.00000°,δ54.00000°,λ-91.00000°. Principal axes: T 1.2700,Plg9.0000°,Azm312.0000°; N -0.0400,Plg1.0000°,Azm222.0000°; P -1.2300,Plg81.0000°,Azm129.0000° $M_0$1.30000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=7.7km az=90.0.
JMA III 16 23 48 30.7–.20 39.16N 142.63E 27–3 3.5
¶602663472
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 16 23 58 41.7–.82 34.80N–.08 140.9E–.10 48 3.6b 18 1-148
IDC III 16 23 58 34.8–.87 34.78N 141.15E 0 3.8,3.7 **¶17196569**
JMA III 16 23 58 37.0–.30 34.90N 141.12E 56 3.0,3.7
ISCJB III 16 23 58 39.1–.72 34.89N–.06 141.04E–.09 48 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.

ISC III 17 00 04 18.2–1.6 38.24N–.06 142.13E–.07 19–4 3.6b 16 1-89
IDC III 17 00 04 15.1–1.4 38.16N 142.27E 0 3.8,3.6b **¶17196570**
JMA III 17 00 04 17.7–.40 38.28N 142.28E 31 4.0,3.6b
ISCJB III 17 00 04 18.2–2.7 38.23N–.06 142.26E–.08 33–21 3.6b,3.6b
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 00 09 28.5–1.7 38.49N 141.43E 0 4.4,4.3
¶17196571
IDC Error ellipse: s-maj=46.4km s-min=24.2km az=79.0.
ISC III 17 00 11 22.0–.61 36.06N–.07 141.87E–.08 23 4.1b 36 1-147
NIED III 17 00 11 00 36.10N 141.90E 14 4.1W **¶16461875**
ISCJB III 17 00 11 20.2–.54 36.08N–.06 141.97E–.07 23 3.9b
JMA III 17 00 11 21.7–.30 36.11N 141.91E 50 3.9
NEIC III 17 00 11 21.0–4.8 36.04N 141.92E 16–29 4.3b
IDC III 17 00 11 22.6–.86 36.06N 141.92E 25–4 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ84.00000°,λ1.00000°. NP2:ϕ_s212.00000°,δ89.00000°,λ174.00000°. $M_0$1.64000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=137.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=10.1km az=135.0.
IDC Error ellipse: s-maj=20.0km s-min=17.3km az=35.0.
ISC III 17 00 16 12.1–.49 37.23N–.06 141.98E–.09 39–4 4.5b 84 1-92
NIED III 17 00 16 00 37.30N 141.90E 38 4.2W **¶600551763**
NEIC III 17 00 16 12.2–.32 37.24N 141.99E 35 4.8b
JMA III 17 00 16 12.5–.20 37.30N 141.85E 38–3 4.3
ISCJB III 17 00 16 12.4–.84 37.24N–.04 141.88E–.07 55–7 4.4b,4.4s
IDC III 17 00 16 12.4–.58 37.25N 141.93E 35–4 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ-170.00000°. NP2:ϕ_s95.00000°,δ86.00000°,λ-68.00000°. $M_0$1.95000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.9km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.5km az=19.4.
IDC Error ellipse: s-maj=15.1km s-min=12.2km az=95.0.
ISC III 17 00 23 37.7–1.1 36.75N–.03 140.61E–.05 8–7 3.6b 21 0-91
ISCJB III 17 00 23 36.9–.75 36.73N–.04 140.68E–.06 14–4 3.5b **¶17196574**
IDC III 17 00 23 36.7–1.3 36.96N 140.56E 0 3.8,3.6
JMA III 17 00 23 37.8–.10 36.75N 140.60E 4–3 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.3km az=21.3.
IDC Error ellipse: s-maj=29.8km s-min=26.4km az=12.0.
JMA Event type fe.
JMA III 17 00 31 09.4–.20 39.70N 142.73E 21–2 4.1
¶602668701
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 00 45 53.8–1.5 36.16N–.04 141.18E–.06 23–10 4.4b 77 1-147
NIED III 17 00 45 00 36.20N 141.20E 5 4.1W **¶602668692**
IDC III 17 00 45 50.2–.68 36.12N 141.18E 0 4.3,4.1
JMA III 17 00 45 52.6–.10 36.16N 141.22E 43–2 4.3,4.1
ISCJB III 17 00 45 53.6–.75 36.12N–.04 141.17E–.06 33–6 4.5b,4.1
NEIC III 17 00 45 55.3–1.7 36.10N 141.12E 33–11 4.8b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ25.00000°,λ-31.00000°. NP2:ϕ_s31.00000°,δ77.00000°,λ-112.00000°. $M_0$1.45000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=17.9km az=39.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=17.4.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=147.0.
JMA III 17 00 51 08.0–.10 37.22N 141.03E 26–1 3.8
¶602668686
JMA Event type fe.
ISC III 17 00 51 09.8–.47 36.60N–.05 141.81E–.05 29–2 4.6b 74 1-90
ISCJB III 17 00 51 06.6–1.7 36.53N–.04 141.90E–.05 21–11 4.5b,3.4s **¶600551803**
JMA III 17 00 51 10.6–.30 36.66N 141.79E 57 4.6,3.4s
NEIC III 17 00 51 10.5–2.7 36.59N 141.75E 33–18 4.8b,3.4s
IDC III 17 00 51 11.0–.46 36.63N 141.69E 34–3 4.3,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.4km az=166.8.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.9km az=117.0.
IDC Error ellipse: s-maj=12.5km s-min=10.3km az=86.0.
JMA III 17 00 56 58.1–.20 39.06N 142.40E 25–2 3.5
¶602668680
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 01 07 44.8–.20 38.62N 142.85E 20–4 3.9
¶602668652
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 01 15 16.8–.10 37.41N 141.50E 40–2 3.8
¶602668633
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 01 19 06.0–2.1 37.46N–.07 141.72E–.07 8–12 3.8b 25 1-75
JMA III 17 01 19 04.0–.20 37.59N 141.89E 4–3 4.4 **¶600551873**
IDC III 17 01 19 04.1–.85 37.38N 141.77E 0 4.0,3.7
ISCJB III 17 01 19 06.2–1.7 37.50N–.05 141.86E–.06 27–11 3.8b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 01 47 45.9–1.2 35.98N–.08 140.8E–.10 31 8 0-56
IDC III 17 01 47 40.3–3.2 36.39N 141.16E 0 3.6,3.5b **¶600551951**
JMA III 17 01 47 44.9–.10 35.90N 140.83E 40–1 2.7,3.5b
ISCJB III 17 01 47 45.7–.85 35.92N–.07 140.7E–.20 31 3.7b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 02 03 50.5–3.2 39.02N–.07 142.6E–.10 7–14 4.0b 15 1-59
IDC III 17 02 03 44.4–2.7 38.93N 143.38E 0 3.7,3.6b **¶17196602**
JMA III 17 02 03 50.2–.20 38.96N 142.63E 17–2 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=69.0km s-min=32.1km az=68.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 02 30 41.4–.77 38.60N–.09 141.98E–.08 41 3.9b 26 1-89
NIED III 17 02 30 00 38.60N 141.90E 56 4.1W **¶602668899**
ISCJB III 17 02 30 39.5–.60 38.57N–.07 142.04E–.07 41 3.8b
JMA III 17 02 30 41.7–.10 38.62N 141.89E 52–1 4.0
IDC III 17 02 30 45.1–2.6 38.58N 141.72E 78–23 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ10.00000°,λ-5.00000°. NP2:ϕ_s224.00000°,δ89.00000°,λ-100.00000°. $M_0$1.56000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=7.0km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=14.5km az=99.0.
ISC III 17 02 36 32.5–2.1 36.17N–.06 140.92E–.08 20–7 3.6b 14 0-60
IDC III 17 02 36 22.7–2.9 36.93N 141.97E 0 3.7,3.5b **¶600552089**
JMA III 17 02 36 32.8–.10 36.07N 141.06E 38–1 3.3,3.5b
ISCJB III 17 02 36 32.4–1.2 36.09N–.05 141.1E–.10 37–13 3.5b,3.5b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 02 43 42.6–1.3 35.61N–.06 141.10E–.09 33 3.5b 14 0-56
IDC III 17 02 43 39.1–1.5 35.36N 141.00E 0 3.7,3.5b **¶17196605**
ISCJB III 17 02 43 42.5–.96 35.61N–.06 141.08E–.09 33 3.6b,3.5b
JMA III 17 02 43 43.3–.20 35.62N 140.97E 26–1 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=37.7km s-min=30.1km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.6km az=169.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 02 46 46.9–.20 35.97N 141.08E 17–3 3.6
¶602668868
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 02 46 57.4–.10 37.23N 141.40E 41–2 4.1
¶602668865

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 02 48 37.0–1.5 39.73N–.07 142.62E–.08 46–12 4.6b 91 1-116
NIED III 17 02 48 00 39.70N 142.70E 20 4.5W ¶602668863
JMA III 17 02 48 33.3–.30 39.71N 142.69E 17–2 4.7
ISCJB III 17 02 48 35.3–.88 39.73N–.04 142.67E–.07 47–6 4.5b
IDC III 17 02 48 38.4–2.3 39.71N 142.67E 60–20 4.3,4.2
NEIC III 17 02 48 38.0–.71 39.72N 142.65E 57–5 4.7b,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ22.00000°,λ163.00000°. NP2:ϕ_s20.00000°,δ84.00000°,λ9.00000°. $M_0$5.61000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.0km az=34.0.
IDC Error ellipse: s-maj=18.9km s-min=14.5km az=146.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.7km az=129.0.
ISC III 17 02 50 27.7–.43 39.33N–.05 142.50E–.06 29 4.5b 96 1-149
NIED III 17 02 50 00 39.30N 142.50E 26 4.5W ¶16340053
JMA III 17 02 50 25.8–.20 39.28N 142.50E 25–2 4.6
ISCJB III 17 02 50 26.0–.30 39.26N–.03 142.53E–.04 29 4.5b
IDC III 17 02 50 30.4–2.3 39.24N 142.48E 54–20 4.4,4.2
NEIC III 17 02 50 31.0–.74 39.22N 142.45E 61–6 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ37.00000°,λ-123.00000°. NP2:ϕ_s213.00000°,δ60.00000°,λ-67.00000°. $M_0$7.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.5km az=44.7.
IDC Error ellipse: s-maj=13.5km s-min=10.3km az=87.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=119.0.
JMA III 17 03 01 17.7–.30 39.25N 142.50E 21–3 3.5
¶602668832
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 03 11 33.5–.20 38.37N 142.03E 37–3 3.8
¶602668822
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 03 13 07.5–.40 38.14N 142.70E 17 4.2
¶17196607
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 17 03 26 14.0–.30 39.25N 142.46E 22–3 3.5
¶602668584
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 17 03 43 55.1–.45 38.17N–.05 142.73E–.05 14 4.5b 111 2-145
IDC III 17 03 43 52.6–.53 38.15N 142.83E 0 4.4,4.3 ¶600552213
ISCJB III 17 03 43 53.4–.27 38.18N–.03 142.72E–.04 14 4.4b,4.3
JMA III 17 03 43 56.6–.40 38.26N 142.52E 21 4.5,4.3
NEIC III 17 03 43 58.1–.77 38.19N 142.75E 36–7 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.3km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=145.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.3km az=134.0.
JMA III 17 03 47 54.7–.10 35.88N 140.94E 15–1 3.6
¶602668538
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 03 49 58.5–.30 36.87N 141.43E 46–2 2.7
¶602668536
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 17 03 55 43.2–.10 37.43N 141.27E 26–1 3.8
¶602668534
JMA Event type fe.
IDC III 17 04 03 02.3–.97 38.57N 141.86E 0 3.8,3.7b
¶17196610
IDC Error ellipse: s-maj=28.5km s-min=20.9km az=109.0.
ISC III 17 04 13 57.6–.27 40.17N–.03 142.38E–.03 38–1 5.8s,5.7b 1677 1-159
NIED III 17 04 13 00 40.10N 142.40E 41 6.1W,5.7b ¶602668515
BJI III 17 04 13 50.8 40.07N 142.69E 25 5.9,5.9b
NEIC III 17 04 13 56.8–.10 40.14N 142.17E 29 6.2W,6.1W
IDC III 17 04 13 57.0–2.9 40.12N 142.38E 34–21 5.8,5.8s
MOS III 17 04 13 56.4–.89 40.28N 142.25E 33 6.0b,5.9s
GCMT III 17 04 13 56.8–.10 40.17N 142.55E 41–0 6.1W,5.9s
JMA III 17 04 13 57.3–.10 40.13N 142.41E 31–1 5.9,5.9s
ISCJB III 17 04 13 57.5–.35 40.15N–.02 142.30E–.02 49–3 5.8s,5.7b
NEIC III 17 04 13 58.0–.00 40.20N 142.24E 35 5.8s,5.7b
NEIC III 17 04 14 15.2–.00 40.32N 143.23E 44 5.8s,5.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ20.00000°,λ63.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ99.00000°. $M_0$1.52000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=144.0. Felt [III] at Misawa. Recorded [4 JMA] in Aomori and Iwate. Moment Tensor Solution. Best double couple: NP1: ϕ_s188.00000°,δ19.00000°,λ72.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ96.00000°. Principal axes: T 1.3200,Plg62.0000°,Azm307.0000°; N 0.0000,Plg6.0000°,Azm205.0000°; P -1.3100,Plg27.0000°,Azm113.0000°
IDC Error ellipse: s-maj=11.3km s-min=9.6km az=82.0.
MOS Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=101.5. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c299; s135,c461;Duration: 2$\hat{s}$8 Moment tensor: Scale 10^{18} Nm; M_{rr}1.29±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-1.36±.01; $M_{r\theta}$0.56±.01; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$1.21±.02; Best double couple: NP1:ϕ_s21.00000°,δ68.00000°,λ98.00000°. NP2:ϕ_s180.00000°,δ24.00000°,λ71.00000°. Principal axes: T 1.8610,Plg66.0000°,Azm306.0000°; N 0.0850,Plg8.0000°,Azm198.0000°; P -1.9450,Plg22.0000°,Azm105.0000° $M_0$1.90300×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=150.2.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{18}Nm; M_{rr}0.79 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$-0.58 $M_{r\theta}$0.47 $M_{\theta\phi}$0.00 $M_{\phi r}$2.06 Best double couple: NP1:ϕ_s12.00000°,δ81.00000°,λ92.00000°. NP2:ϕ_s180.00000°,δ9.00000°,λ78.00000°. Principal axes: T 2.3300,Plg53.0000°,Azm284.0000°; N -0.2300,Plg1.0000°,Azm191.0000°; P -2.1100,Plg36.0000°,Azm100.0000° $M_0$2.20000×10^{18}
NEIC Event type se. Moment Tensor Solution. s82 Moment tensor: Scale 10^{18}Nm; M_{rr}1.23 $M_{\theta\theta}$-0.16 $M_{\phi\phi}$-1.07 $M_{r\theta}$0.09 $M_{\theta\phi}$-0.27 $M_{\phi r}$1.64 Best double couple: NP1:ϕ_s202.00000°,δ19.00000°,λ106.00000°. NP2:ϕ_s6.00000°,δ72.00000°,λ85.00000°. Principal axes: T 2.0800,Plg62.0000°,Azm268.0000°; N -0.1200,Plg5.0000°,Azm7.0000°; P -1.9700,Plg27.0000°,Azm100.0000° $M_0$2.00000×10^{18}
JMA III 17 04 18 30.7–.30 39.24N 142.49E 26 4.3
¶602668514
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 04 24 00.8–.40 37.09N 141.69E 35–3 3.5
¶602668513
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 17 04 47 22.4–.10 35.84N 140.91E 12–1 3.7
¶602668458
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 04 48 15.2–.20 36.95N 141.34E 29–1 3.6
¶602668455
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 04 50 21.1–2.2 39.10N–.07 142.4E–.10 47–20 3.8b 27 1-88
IDC III 17 04 50 14.1–.77 38.99N 142.47E 0 4.0,3.8 ¶17196615
JMA III 17 04 50 19.0–.20 39.04N 142.44E 23–3 3.9,3.8
ISCJB III 17 04 50 19.8–1.3 39.06N–.05 142.5E–.10 52–12 3.7b,3.8
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
IDC III 17 04 58 58.9–4.3 34.27N 140.82E 0 3.8,3.6
¶17196618
IDC Error ellipse: s-maj=149.1km s-min=33.2km az=65.0.
ISC III 17 05 22 40.6–1.9 37.10N–.06 141.25E–.10 27–10 4.0b 22 0-147
IDC III 17 05 22 33.8–2.2 36.91N 141.78E 0 4.0b,3.9 ¶600552335
ISCJB III 17 05 22 40.6–1.3 37.12N–.04 141.21E–.09 27–5 3.9b,3.9
JMA III 17 05 22 42.6–.10 37.16N 141.06E 30–1 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=62.3km s-min=32.7km az=2.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=7.0km az=11.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 05 50 57.9–1.6 35.82N–.09 141.1E–.10 35 3.9b 9 0-60
IDC III 17 05 50 41.7–2.5 37.50N 143.85E 0 3.9,3.8b ¶602668117
ISCJB III 17 05 50 57.5–1.4 35.80N–.09 141.0E–.20 35 3.8b,3.8b
JMA III 17 05 50 57.2–.10 35.86N 141.10E 17–1 2.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=70.6km s-min=25.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=24.3km s-min=8.7km az=157.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 05 58 43.0–1.6 36.59N–.09 141.39E–.10 26 15 1-57
IDC III 17 05 58 40.3–2.1 36.28N 141.31E 0 3.7,3.5 ¶17196634
ISCJB III 17 05 58 40.9–1.3 36.59N–.08 141.56E–.10 26 3.5b,3.5
JMA III 17 05 58 42.3–.10 36.64N 141.47E 50–2 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=41.3km s-min=21.4km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.6km az=32.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 06 03 49.6–.00 38.5N–.10 142.8E–.10 23 3.7b 10 4-88
IDC III 17 06 03 46.1–.92 38.54N 142.85E 0 4.4,4.4s ¶17196636
ISCJB III 17 06 03 47.7–.80 38.5N–.10 142.8E–.10 23 4.4s,3.7b
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 06 04 04.9–.10 39.91N 142.19E 40–2 3.5
¶603049873
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 06 09 29.6–2.3 35.86N–.07 141.02E–.10 16–13 3.6b 13 0-60
IDC III 17 06 09 27.0–1.3 35.70N 141.02E 0 3.6,3.5b ¶600552432
ISCJB III 17 06 09 29.0–1.3 35.86N–.08 141.1E–.10 29–7 3.5b,3.5b
JMA III 17 06 09 30.3–.20 35.82N 141.02E 25–1 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=25.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=10.3km az=137.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 06 23 26.9–1.0 35.15N–.07 141.0E–.10 48 4.2b 16 0-92
JMA III 17 06 23 22.6–.10 35.25N 141.21E 26–3 3.5 ¶600552439
ISCJB III 17 06 23 23.8–1.0 35.22N–.06 141.1E–.20 48 4.1b
IDC III 17 06 23 27.7–4.2 35.12N 140.78E 49–37 3.9,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=7.1km az=162.9.
IDC Error ellipse: s-maj=46.2km s-min=20.4km az=75.0.
ISC III 17 06 31 08.2–1.7 37.33N–.07 141.2E–.10 10 3.7b 10 0-57
IDC III 17 06 31 06.3–2.5 37.21N 141.34E 0 3.8,3.7b ¶600552449
ISCJB III 17 06 31 06.4–1.3 37.35N–.07 141.29E–.10 10 3.7b,3.7b
JMA III 17 06 31 08.4–.10 37.38N 141.17E 13–1 3.5,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=59.6km s-min=31.5km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.2km az=23.2.
JMA III 17 06 33 00.8–.40 38.02N 142.53E 9 3.8
¶602668067
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 06 36 54.5–.86 36.31N–.05 140.95E–.07 32 3.7b 16 0-65
IDC III 17 06 36 50.0–1.1 36.27N 141.03E 0 3.8,3.7b ¶602668060
ISCJB III 17 06 36 52.9–.72 36.31N–.05 141.05E–.07 32 3.7b,3.7b
JMA III 17 06 36 53.7 36.32N 140.98E 35–1 3.8,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=16.5km az=180.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.7km az=166.7.
JMA Event type fe.
JMA III 17 08 01 12.0–.20 38.72N 142.17E 24–3 3.8
¶602667958
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 08 03 52.6–.10 35.82N 140.89E 9–1 2.0
¶603049875
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 08 04 41.8–1.8 38.96N–.06 142.4E–.10 45–16 4.1b 42 1-88
JMA III 17 08 04 39.4–.10 38.95N 142.39E 30–2 4.1 ¶16478821
ISCJB III 17 08 04 40.0–.95 38.94N–.04 142.42E–.08 46–8 4.6s,4.2b
NEIC III 17 08 04 42.4–.86 38.93N 142.46E 54–8 4.2b,4.2b
IDC III 17 08 04 43.8–2.7 38.92N 142.36E 67–24 4.2s,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.3km az=20.2.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.5km az=110.0.
IDC Error ellipse: s-maj=20.5km s-min=15.4km az=110.0.
JMA III 17 08 09 17.0–.40 38.12N 142.66E 0 4.1
¶602667931
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 17 08 12 59.6–.40 38.17N 142.06E 40 3.6
¶602667920
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 08 25 25.0–.52 36.68N–.03 141.79E–.03 26–3 5.4b,5.1s 1281 1-157
NIED III 17 08 25 00 36.70N 141.50E 26 5.3W,5.1s ¶602443657
IDC III 17 08 25 20.9–.29 36.64N 141.76E 0 5.3,5.3
JMA III 17 08 25 22.7–.20 36.68N 141.85E 17–2 5.4,5.3
BJI III 17 08 25 22.6 36.66N 141.72E 26 5.3b,5.3b
ISCJB III 17 08 25 24.5–.70 36.62N–.02 141.75E–.02 32–4 5.3b,5.1s
MOS III 17 08 25 27.2–.84 37.10N 141.66E 38 5.5b,5.2s
GCMT III 17 08 25 28.5–.40 36.54N 141.94E 82–5 5.3W,5.2s
NEIC III 17 08 25 28.5–.52 36.66N 141.63E 52–4 5.2b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ38.00000°,λ-68.00000°. NP2:ϕ_s360.00000°,δ55.00000°,λ-106.00000°. $M_0$8.52000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=8.0km az=85.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=153.6.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=111.2.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s5,c5; s82,c117; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.06 $M_{\theta\theta}$-1.14±.05; $M_{\phi\phi}$0.16±.05; $M_{r\theta}$-0.04±.05; $M_{\theta\phi}$0.49±.04; $M_{\phi r}$-0.41±.03; Best double couple: NP1:ϕ_s132.00000°,δ53.00000°,λ123.00000°. NP2:ϕ_s265.00000°,δ48.00000°,λ55.00000°. Principal axes: T 1.1670,Plg64.0000°,Azm104.0000°; N 0.1330,Plg26.0000°,Azm290.0000°; P -1.3050,Plg2.0000°,Azm199.0000° $M_0$1.23600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=136.0. Recorded [3 JMA] in Fukushima.
ISC III 17 08 40 24.5–3.6 36.59N–.05 141.94E–.08 16–23 3.6b 23 1-60
IDC III 17 08 40 20.8–2.0 36.76N 142.26E 0 3.7,3.7 ¶17196658
ISCJB III 17 08 40 24.0–1.6 36.61N–.06 142.00E–.08 22–9 3.5b,3.7
JMA III 17 08 40 26.1–.20 36.61N 141.87E 35 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=54.1km s-min=21.8km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.6km az=144.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 08 44 50.9–.72 38.43N–.04 142.14E–.04 28–4 4.9b 610 1-155
NIED III 17 08 44 00 38.40N 142.30E 8 4.5W ¶16339108
IDC III 17 08 44 46.5–.43 38.41N 142.19E 0 4.8,4.7
JMA III 17 08 44 47.4–.20 38.42N 142.30E 23–3 4.7,4.7
MOS III 17 08 44 50.9–.79 38.59N 142.00E 31 5.0b,4.7
ISCJB III 17 08 44 50.4–.93 38.42N–.03 142.06E–.03 33–6 4.8b,3.9s
NEIC III 17 08 44 53.4–.53 38.43N 142.03E 44–5 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ43.00000°,λ-129.00000°. NP2:ϕ_s265.00000°,δ58.00000°,λ-59.00000°. $M_0$6.39000×10^{15}
IDC Error ellipse: s-maj=11.7km s-min=11.3km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.2km az=106.1.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=148.5.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=145.0.
JMA III 17 08 48 49.0–.20 36.32N 141.63E 34–4 3.5
¶602667778

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 08 51 13.0–1.1 37.02N–.05 141.4E–.10 39–8 3.7b 22 0-57
ISCJB III 17 08 51 12.0–1.0 36.99N–.04 141.4E–.10 48–9 3.7b **¶17196659**
JMA III 17 08 51 14.2–.10 37.07N 141.19E 51–1 3.8
IDC III 17 08 51 15.3–3.6 36.93N 141.22E 62–34 3.8,3.7L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=7.1km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=18.4km az=78.0.
ISC III 17 08 56 54.2–1.6 36.43N–.05 141.14E–.08 27–11 3.9b 22 0-60
IDC III 17 08 56 48.7–2.2 36.52N 141.53E 0 3.9,3.8 **¶17196660**
ISCJB III 17 08 56 53.3–1.1 36.39N–.04 141.19E–.07 31–6 3.8b,3.8
JMA III 17 08 56 54.9–.10 36.42N 141.08E 45–1 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=56.9km s-min=22.9km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=7.2km az=176.6.
JMA Event type fe.
ISC III 17 08 59 40.8–.62 40.25N–.04 142.47E–.04 33–3 4.9b,4.7s 363 1-154
NIED III 17 08 59 00 40.20N 142.50E 38 5.1W,4.7s **¶602667769**
BJI III 17 08 59 37.8 40.16N 142.76E 45 5.3b,4.9b
ISCJB III 17 08 59 38.5–.20 40.21N–.03 142.55E–.03 31 4.9b,4.6s
JMA III 17 08 59 40.3–.10 40.15N 142.50E 29–1 5.0,4.6s
MOS III 17 08 59 40.7–.96 40.35N 142.38E 40 5.2b,5.0s
IDC III 17 08 59 42.9–2.0 40.17N 142.46E 58–17 4.6s,4.6
NEIC III 17 08 59 43.2–.65 40.25N 142.41E 53–6 4.9b,4.6
GCMT III 17 08 59 43.2–.30 40.30N 142.62E 43–1 5.2W,4.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ23.00000°,λ43.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ107.00000°. $M_0$5.56000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=139.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=106.4.
IDC Error ellipse: s-maj=13.7km s-min=12.1km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=137.0. Recorded [3 JMA] in Aomori.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c42; s80,c125; Duration: 1^{s}0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.71±.04 $M_{\theta\theta}$-0.12±.03; $M_{\phi\phi}$-0.59±.03; $M_{r\theta}$0.29±.02; $M_{\theta\phi}$-0.10±.01; $M_{\phi r}$0.37±.02; Best double couple: NP1:ϕ_s25.00000°,δ62.00000°,λ101.00000°. NP2:ϕ_s183.00000°,δ30.00000°,λ70.00000°. Principal axes: T 0.8740,Plg71.0000°,Azm319.0000°; N -0.1320,Plg10.0000°,Azm200.0000°; P -0.7420,Plg17.0000°,Azm107.0000° $M_0$0.80800×10^{17}
ISC III 17 09 05 58.4–.36 40.19N–.03 142.43E–.03 34–1 5.0b,4.5s 517 1-154
NIED III 17 09 05 00 40.20N 142.50E 38 4.9W,4.5s **¶602443662**
BJI III 17 09 05 52.2 40.11N 142.81E 25 5.3b,5.0b
ISCJB III 17 09 05 58.4–.41 40.19N–.02 142.42E–.03 43–3 5.0b,4.6s
JMA III 17 09 05 58.8–.10 40.15N 142.46E 31–1 4.8,4.6s
MOS III 17 09 05 58.0–.89 40.35N 142.37E 33 5.4b,4.6s
NEIC III 17 09 05 59.5–.16 40.26N 142.34E 35 5.0b,4.6s
GCMT III 17 09 05 59.5–.60 40.29N 142.66E 46–1 5.1W,4.6s
IDC III 17 09 05 59.9–.63 40.18N 142.49E 46–5 4.8,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ21.00000°,λ49.00000°. NP2:ϕ_s28.00000°,δ74.00000°,λ104.00000°. $M_0$2.90000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=137.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=101.6.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=142.0. Recorded [3 JMA] in Iwate.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c23; s60,c86; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.31±.53 $M_{\theta\theta}$-1.42±.30; $M_{\phi\phi}$-4.89±.29; $M_{r\theta}$1.40±.17; $M_{\theta\phi}$-0.37±.14; $M_{\phi r}$1.82±.16; Best double couple: NP1:ϕ_s16.00000°,δ55.00000°,λ99.00000°. NP2:ϕ_s180.00000°,δ36.00000°,λ77.00000°. Principal axes: T 6.8120,Plg77.0000°,Azm317.0000°; N -1.5420,Plg8.0000°,Azm190.0000°; P -5.2710,Plg10.0000°,Azm99.0000° $M_0$6.04100×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=10.0km az=110.0.
JMA III 17 09 06 51.6–.10 36.32N 140.88E 36–2 2.9
¶16331274
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 09 19 18.5–1.1 39.37N–.07 142.83E–.07 18 3.7b 20 1-63
IDC III 17 09 19 16.6–1.0 39.45N 142.74E 0 3.8,3.6 **¶600552768**
ISCJB III 17 09 19 16.9–.71 39.28N–.06 142.95E–.06 18 3.5b,3.6
JMA III 17 09 19 16.2–.30 39.22N 142.86E 4–4 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=18.8km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.0km az=169.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 09 39 38.6–3.4 39.52N–.05 142.85E–.06 10–21 4.0b 34 1-73
JMA III 17 09 39 38.9–.30 39.54N 142.89E 17–3 4.2 **¶17196669**
IDC III 17 09 39 43.8–3.3 39.46N 142.91E 54–30 3.9,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.2km s-min=17.4km az=125.0.
JMA III 17 10 07 57.5–.20 39.21N 142.41E 24–2 3.7
¶602667610
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 10 08 58.4–1.5 39.26N–.08 142.4E–.10 29 3.6b 12 1-59
IDC III 17 10 08 51.8–2.7 39.57N 143.06E 0 4.0,3.8s **¶600552907**
ISCJB III 17 10 08 57.7–1.2 39.25N–.08 142.5E–.10 29 3.8s,3.6b
JMA III 17 10 09 02.0–.20 39.27N 142.21E 44–5 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=66.8km s-min=29.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=10.6km az=137.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 17 10 11 16.3–.10 37.34N 141.15E 24–1 3.6
¶602667595
JMA Event type fe.
ISC III 17 10 34 38.4–1.7 35.36N–.07 141.3E–.10 25 3.7b 13 1-59
IDC III 17 10 34 28.6–3.4 36.15N 142.33E 0 3.7,3.6b **¶602668362**
ISCJB III 17 10 34 36.5–1.5 35.42N–.08 141.5E–.10 25 3.7b,3.6b
JMA III 17 10 34 39.0–.10 35.43N 141.21E 27–1 3.0,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=94.8km s-min=29.0km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=8.8km az=151.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 10 38 01.3–1.1 35.25N–.04 141.25E–.08 27 3.9b 22 1-59
IDC III 17 10 37 57.2–1.3 35.21N 141.43E 0 3.9,3.9b **¶602668350**
ISCJB III 17 10 37 59.2–.87 35.23N–.04 141.40E–.09 27 3.9b,3.9b
JMA III 17 10 38 00.2–.20 35.27N 141.31E 21–3 3.2,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=19.4km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.9km az=1.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 10 54 55.5–.10 35.73N 140.91E 9–1 3.5
¶602668294
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 11 05 25.2–.81 38.31N–.07 142.19E–.09 21–5 3.6b 24 1-89
JMA III 17 11 05 25.9–.30 38.37N 142.24E 29–4 3.8 **¶600553119**
IDC III 17 11 05 26.2–.92 38.23N 142.17E 29–6 3.6,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=26.2km s-min=21.4km az=58.0.
ISC III 17 11 13 13.9–1.4 38.59N–.06 142.00E–.07 33–4 3.9b 30 1-76
NIED III 17 11 13 00 38.60N 141.90E 47 4.0W **¶17196691**
IDC III 17 11 13 10.6–1.5 38.91N 141.89E 0 4.0,3.9
JMA III 17 11 13 15.5–.10 38.58N 141.87E 53–2 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ77.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ95.00000°. $M_0$1.18000×10^{15}
IDC Error ellipse: s-maj=36.7km s-min=17.5km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 11 31 23.8–.83 35.64N–.04 140.83E–.06 26–5 4.0s,3.7b 36 0-148
NIED III 17 11 31 00 35.60N 141.00E 29 4.1W,3.7b **¶600553156**
IDC III 17 11 31 19.6–.67 35.58N 140.78E 0 3.9,3.8
NEIC III 17 11 31 21.3–3.4 35.61N 140.81E 10–21 4.1b,3.8
ISCJB III 17 11 31 22.6–.88 35.60N–.04 141.00E–.06 33–6 3.8s,3.7b
JMA III 17 11 31 23.2–.10 35.63N 141.00E 27–1 3.9,3.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ46.00000°,λ48.00000°. NP2:ϕ_s282.00000°,δ58.00000°,λ124.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=16.1km az=99.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.7km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.0km az=159.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 11 34 29.1–.92 35.76N–.05 141.84E–.07 23 3.7b 27 1-65
NIED III 17 11 34 00 35.80N 142.20E 8 4.0W **¶600553158**
JMA III 17 11 34 24.3–.30 35.84N 142.23E 26–5 3.7
ISCJB III 17 11 34 25.6–.78 35.74N–.05 142.11E–.07 23 3.7b
IDC III 17 11 34 25.5–.99 35.61N 141.84E 0 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ34.00000°,λ132.00000°. NP2:ϕ_s139.00000°,δ66.00000°,λ66.00000°. $M_0$1.19000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.4km az=151.3.
IDC Error ellipse: s-maj=23.5km s-min=18.9km az=101.0.
ISC III 17 11 38 26.4–1.1 36.74N–.04 140.54E–.05 5–8 3.7b 28 0-91
NIED III 17 11 38 00 36.70N 140.60E 5 3.8W **¶17196696**
IDC III 17 11 38 25.6–.78 36.73N 140.53E 0 4.0,3.8
ISCJB III 17 11 38 25.9–.64 36.69N–.03 140.63E–.05 12–3 3.7b,3.8
JMA III 17 11 38 26.6–.10 36.72N 140.57E 3–2 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ27.00000°,λ-108.00000°. NP2:ϕ_s190.00000°,δ64.00000°,λ-81.00000°. $M_0$5.32000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=16.8km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=24.5.
JMA Event type fe.
IDC III 17 11 38 39.5–9.3 36.89N 141.22E 0 3.9,3.8
¶17196699
IDC Error ellipse: s-maj=345.2km s-min=21.9km az=64.0.
ISC III 17 11 41 02.8–.84 36.06N–.04 141.20E–.08 26 3.8b 21 0-78
IDC III 17 11 40 59.3–.74 35.99N 141.19E 0 4.1s,4.1 **¶17196700**
JMA III 17 11 41 01.6–.10 36.03N 141.27E 36–2 4.0,4.1
ISCJB III 17 11 41 01.6–.57 36.04N–.04 141.27E–.06 26 4.2s,3.6b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 11 48 10.9–.62 37.31N–.04 141.34E–.05 29–4 4.3b,3.6s 60 0-90
NIED III 17 11 48 00 37.40N 141.30E 26 4.2W,3.6s **¶602443664**
JMA III 17 11 48 10.8–.10 37.37N 141.34E 29–1 4.3,3.6s
ISCJB III 17 11 48 10.7–.79 37.29N–.03 141.36E–.07 43–7 4.2b,3.6s
IDC III 17 11 48 11.0–.57 37.34N 141.29E 28–3 4.2,4.2
NEIC III 17 11 48 13.8–.73 37.31N 141.31E 55–6 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ11.00000°,λ-65.00000°. NP2:ϕ_s224.00000°,δ80.00000°,λ-95.00000°. $M_0$1.91000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.3km az=0.9.
IDC Error ellipse: s-maj=13.9km s-min=12.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.0km az=105.0. Recorded [3 JMA] in Fukushima.
ISC III 17 11 54 34.6–1.4 36.17N–.06 141.9E–.10 23 3.5b 19 1-60
IDC III 17 11 54 29.9–2.9 36.30N 142.20E 0 3.8L,3.7 **¶600553187**
ISCJB III 17 11 54 32.7–.97 36.17N–.06 142.03E–.08 23 3.5b,3.7
JMA III 17 11 54 34.3–.20 36.18N 141.97E 55 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=83.5km s-min=24.4km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.3km az=157.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 12 00 35.0–1.3 36.22N–.06 140.97E–.07 30–8 3.7b 23 1-82
NIED III 17 12 00 00 36.20N 141.00E 41 3.9W **¶17196703**
IDC III 17 12 00 30.4–.88 36.19N 141.00E 0 3.8,3.7b
JMA III 17 12 00 34.5–.10 36.22N 141.00E 44–1 3.7,3.7b
ISCJB III 17 12 00 34.6–.91 36.21N–.06 140.98E–.09 43–7 3.7b,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ5.00000°,λ-120.00000°. NP2:ϕ_s205.00000°,δ85.00000°,λ-87.00000°. $M_0$9.18000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 12 04 28.4–1.1 36.30N–.05 140.87E–.07 32 3.8b 14 0-60
IDC III 17 12 04 22.9–1.2 36.68N 141.28E 0 3.7,3.6b **¶17196708**
JMA III 17 12 04 27.1–.10 36.26N 141.00E 35–1 2.9,3.6b
ISCJB III 17 12 04 27.6–.93 36.25N–.06 140.94E–.08 32 3.7b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 12 19 10.1–.96 36.77N–.03 140.54E–.05 11–7 3.6b 20 0-91
IDC III 17 12 19 08.2–1.4 36.72N 140.65E 0 4.0,3.6 **¶17196714**
ISCJB III 17 12 19 09.6–.72 36.74N–.03 140.65E–.06 15–6 3.6b,3.6
JMA III 17 12 19 10.3 36.77N 140.56E 8–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=26.2km az=7.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.1km az=25.6.
JMA Event type fe.
JMA III 17 12 24 17.9–.10 35.98N 141.05E 15–2 3.0
¶17196715
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 12 27 41.4–.10 38.72N 142.14E 37–2 3.5
¶603049881
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 12 32 03.4–.34 35.56N–.03 140.87E–.03 28–2 5.3b,5.3s 1039 0-166
BJI III 17 12 31 56.3 35.45N 141.05E 11 5.5s,5.4 **¶602443670**
NIED III 17 12 32 00 35.60N 141.00E 29 5.5W,5.4
JMA III 17 12 32 02.4–.10 35.63N 140.98E 28–1 5.7,5.4
ISCJB III 17 12 32 02.4–.44 35.53N–.02 140.80E–.02 31–3 5.3s,5.3b
GCMT III 17 12 32 04.6–.10 35.58N 140.89E 29–0 5.5W,5.3b
NEIC III 17 12 32 04.6–.59 35.50N 140.76E 36–5 5.5W,5.4b
IDC III 17 12 32 04.0–3.1 35.55N 140.90E 33–23 5.2,5.2s
MOS III 17 12 32 04.6–1.0 35.57N 140.79E 49 5.5b,5.3s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ31.00000°,λ130.00000°. NP2:ϕ_s42.00000°,δ67.00000°,λ68.00000°. $M_0$1.86000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s37.00000°,δ55.00000°,λ79.00000°. NP2:ϕ_s236.00000°,δ37.00000°,λ105.00000°. Principal axes: T Plg77.0000°,Azm270.0000°; N Plg9.0000°,Azm44.0000°; P Plg9.0000°,Azm135.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=153.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c174; s120,c249;Duration: 1^{s}4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.39±.04 $M_{\theta\theta}$-1.78±.03; $M_{\phi\phi}$-0.61±.03; $M_{r\theta}$0.59±.06; $M_{\theta\phi}$-0.94±.02; $M_{\phi r}$1.03±.06; Best double couple: NP1:ϕ_s48.00000°,δ58.00000°,λ77.00000°. NP2:ϕ_s252.00000°,δ34.00000°,λ110.00000°. Principal axes: T 2.7290,Plg73.0000°,Azm284.0000°; N -0.2060,Plg11.0000°,Azm55.0000°; P -2.5230,Plg12.0000°,Azm148.0000° $M_0$2.62600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=128.0. Felt at Iruma, Matsudo, Toride and Zama. Recorded [4 JMA] in Chiba, Ibaraki and Saitama. Moment Tensor Solution. s48 Moment tensor: Scale 10^{17}Nm; M_{rr}1.11 $M_{\theta\theta}$-1.75 $M_{\phi\phi}$0.63 $M_{r\theta}$0.61 $M_{\theta\phi}$-0.18 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s297.00000°,δ42.00000°,λ142.00000°. NP2:ϕ_s56.00000°,δ66.00000°,λ54.00000°. Principal axes: T 1.7800,Plg54.0000°,Azm281.0000°; N 0.1400,Plg32.0000°,Azm73.0000°; P -1.9200,Plg13.0000°,Azm171.0000° $M_0$1.90000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=7.5km az=89.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=111.0.
ISC III 17 12 33 24.7–.48 35.54N–.05 140.89E–.08 33 4.9b 46 0-148

ISCJB III 17 12 33 22.9–.35 35.48N–.04 140.90E–.08 33 4.9b **¶16478897**
JMA III 17 12 33 23.4–.20 35.61N 141.00E 27–1 4.9
NEIC III 17 12 33 25.0–2.0 35.48N 140.88E 34–14 5.0b
GCMT III 17 12 33 25.0–.50 35.77N 140.88E 14–2 5.4W
IDC III 17 12 33 25.0–4.3 35.49N 140.87E 33–32 5.5L,5.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.6km az=162.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.1km az=86.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c20; s72,c90; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.71±.10 $M_{\theta\theta}$-0.76±.06; $M_{\phi\phi}$0.04±.05; $M_{r\theta}$-1.06±.25; $M_{\theta\phi}$-0.56±.03; $M_{\phi r}$0.29±.13; Best double couple: NP1:ϕ_s274.00000°,δ73.00000°,λ117.00000°. NP2:ϕ_s33.00000°,δ31.00000°,λ34.00000°. Principal axes: T 1.4630,Plg54.0000°,Azm216.0000°; N -0.0530,Plg26.0000°,Azm86.0000°; P -1.4100,Plg24.0000°,Azm343.0000° $M_0$1.43700×10^{17}
IDC Error ellipse: s-maj=15.1km s-min=11.9km az=90.0.
ISC III 17 12 35 50.8–.75 37.18N–.04 141.52E–.07 42–6 4.7b 55 1-147
JMA III 17 12 35 50.8–.20 37.22N 141.44E 45–2 4.9 **¶16335585**
NEIC III 17 12 35 50.5–.43 37.19N 141.62E 35 4.5b
ISCJB III 17 12 35 50.4–.74 37.14N–.03 141.48E–.07 52–6 4.6b
IDC III 17 12 35 51.2–.57 37.18N 141.43E 44–5 4.6,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=8.7km az=121.0. Recorded [3 JMA] in Fukushima.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=2.6.
IDC Error ellipse: s-maj=15.2km s-min=9.0km az=108.0.
JMA III 17 12 37 13.9–.10 35.94N 140.99E 13–2 4.0
¶602667500
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 17 12 48 29.8–5.4 36.04N 141.63E 0 3.8,3.6
¶17196718
IDC Error ellipse: s-maj=206.1km s-min=23.9km az=67.0.
ISC III 17 12 54 52.8–.37 36.78N–.03 141.32E–.03 32–2 5.9b,5.5s 1532 1-165
NIED III 17 12 54 00 36.70N 141.30E 44 5.8W,5.5s **¶601668862**
BJI III 17 12 54 49.3 36.71N 141.31E 28 5.7b,5.7b
MOS III 17 12 54 52.2–.81 36.88N 141.22E 33 6.0b,5.5s
NEIC III 17 12 54 52.6–.08 36.76N 141.20E 29 6.1b,5.9W
GCMT III 17 12 54 52.6–.10 36.80N 141.42E 40–0 5.8W,5.9W
NEIC III 17 12 54 52.0–.00 36.56N 141.51E 25 5.8W,5.9W
JMA III 17 12 54 53.6–.20 36.74N 141.31E 47–2 5.7,5.9W
ISCJB III 17 12 54 53.3–.35 36.75N–.02 141.24E–.02 45–3 5.8b,5.5s
IDC III 17 12 54 56.0–1.1 36.74N 141.16E 59–10 5.4,5.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ38.00000°,λ-91.00000°. NP2:ϕ_s49.00000°,δ52.00000°,λ-89.00000°. $M_0$6.49000×10^{17}
MOS Error ellipse: s-maj=6.4km s-min=3.7km az=106.2.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=130.0. Felt [IV] at Yokosuka. Also felt at Fujisawa, Furukawa, Narita, Tokyo, Toride and Yokohama. Recorded [4 JMA] in Fukushima, Ibaraki and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.28 $M_{\theta\theta}$-2.58 $M_{\phi\phi}$7.86 $M_{r\theta}$-0.24 $M_{\theta\phi}$3.30 $M_{\phi r}$1.32 Best double couple: NP1:ϕ_s33.00000°,δ43.00000°,λ-66.00000°. NP2:ϕ_s181.00000°,δ52.00000°,λ-11.00000°. Principal axes: T 8.9100,Plg5.0000°,Azm286.0000°; N -3.3600,Plg16.0000°,Azm195.0000°; P -5.5500,Plg73.0000°,Azm32.0000° $M_0$7.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c265; s128,c334;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.67±.06 $M_{\theta\theta}$3.07±.04; $M_{\phi\phi}$3.61±.05; $M_{r\theta}$-0.82±.04; $M_{\theta\phi}$2.22±.03; $M_{\phi r}$-0.07±.04; Best double couple: NP1:ϕ_s46.00000°,δ48.00000°,λ-84.00000°. NP2:ϕ_s218.00000°,δ42.00000°,λ-96.00000°. Principal axes: T 5.6060,Plg3.0000°,Azm132.0000°; N 1.1440,Plg4.0000°,Azm222.0000°; P -6.7400,Plg85.0000°,Azm8.0000° $M_0$6.17300×10^{17}
NEIC Event type se. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.71 $M_{\theta\theta}$3.08 $M_{\phi\phi}$2.62 $M_{r\theta}$-0.62 $M_{\theta\phi}$1.73 $M_{\phi r}$-1.02 Best double couple: NP1:ϕ_s46.00000°,δ51.00000°,λ-93.00000°. NP2:ϕ_s231.00000°,δ39.00000°,λ-85.00000°. Principal axes: T 4.7200,Plg6.0000°,Azm138.0000°; N 1.1300,Plg2.0000°,Azm47.0000°; P -5.8500,Plg83.0000°,Azm293.0000° $M_0$5.40000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=165.5.
IDC Error ellipse: s-maj=9.6km s-min=6.5km az=84.0.
ISC III 17 13 03 00.2–.67 38.31N–.07 142.12E–.08 38–3 4.2b 47 1-146
JMA III 17 13 02 59.6–.30 38.36N 142.11E 33–4 4.5 **¶16478903**
ISCJB III 17 13 02 59.6–.97 38.31N–.04 142.09E–.08 51–8 4.1b
NEIC III 17 13 02 59.9–.40 38.35N 142.06E 35 4.4b
IDC III 17 13 03 00.4–.73 38.30N 142.06E 38–5 4.1,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.5km az=26.3.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.1km az=127.0.
IDC Error ellipse: s-maj=17.2km s-min=15.7km az=152.0.
ISC III 17 13 04 21.5–.97 35.60N–.05 140.94E–.07 26–6 4.2b 35 0-148
ISCJB III 17 13 04 20.9–2.1 35.63N–.04 140.94E–.08 33–15 4.1b **¶16461888**
JMA III 17 13 04 21.4–.20 35.65N 140.96E 25–1 3.8
IDC III 17 13 04 22.6–4.9 35.54N 140.87E 33–38 4.1,4.0
NEIC III 17 13 04 22.4–.51 35.49N 140.77E 35 4.3b,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.6km az=168.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.8km s-min=16.7km az=75.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.4km az=108.0.
ISC III 17 13 12 30.9–2.4 36.74N–.07 141.60E–.10 23–15 3.6b 20 1-75
IDC III 17 13 12 26.9–1.3 36.82N 141.82E 0 3.8,3.6 **¶17196722**
ISCJB III 17 13 12 30.1–1.5 36.71N–.05 141.64E–.08 29–9 3.6b,3.6
JMA III 17 13 12 34.9–.10 36.75N 141.30E 45–2 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=24.9km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=8.9km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 13 15 07.0–1.2 35.59N–.06 141.02E–.09 33 3.5b 17 0-59
IDC III 17 13 15 01.8–3.0 35.68N 141.26E 0 3.5,3.4 **¶17196723**
ISCJB III 17 13 15 05.3–1.1 35.62N–.07 141.1E–.10 33 3.5b,3.4
JMA III 17 13 15 06.8–.20 35.60N 140.97E 25–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=100.4km s-min=24.1km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.4km az=156.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 13 24 27.1–1.3 35.27N–.05 141.2E–.10 25 3.9b 14 1-59
IDC III 17 13 24 22.6–1.9 35.24N 141.42E 0 3.9,3.9b **¶600553272**
ISCJB III 17 13 24 24.5–1.2 35.27N–.05 141.4E–.10 25 3.9b,3.9b
JMA III 17 13 24 27.6–.10 35.27N 141.18E 20–3 3.1,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=47.1km s-min=20.4km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=6.9km az=169.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 13 34 54.4–1.3 35.73N–.05 140.62E–.04 3–10 3.5b 18 0-56
IDC III 17 13 34 54.0–1.3 35.60N 140.71E 0 3.7,3.5 **¶17196733**
JMA III 17 13 34 54.5–.10 35.84N 141.02E 7–3 3.7,3.5
ISCJB III 17 13 34 54.9–.79 35.77N–.05 140.88E–.09 20–4 3.5b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 13 37 33.3–.41 36.16N–.05 141.89E–.05 23 4.7b 179 1-147
NIED III 17 13 37 00 36.20N 141.90E 26 4.4W **¶16331385**
IDC III 17 13 37 29.8–.55 36.10N 141.81E 0 4.5,4.4
ISCJB III 17 13 37 31.1–.28 36.14N–.03 141.94E–.04 23 4.6b,4.3s
JMA III 17 13 37 32.7–.30 36.19N 141.86E 66 4.5,4.3s
NEIC III 17 13 37 35.0–.29 36.15N 141.81E 35 4.8b,4.3s
MOS III 17 13 37 36.2–.92 36.58N 141.67E 38 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ28.00000°,λ83.00000°. NP2:ϕ_s27.00000°,δ62.00000°,λ94.00000°. $M_0$4.12000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.7km az=36.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.5km az=131.0.
MOS Error ellipse: s-maj=8.8km s-min=6.3km az=113.4.
JMA III 17 13 40 13.6–.30 36.23N 141.83E 50 3.5
¶602667320
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 17 13 44 20.7–.40 36.69N 141.56E 27–4 2.8
¶603049882
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 17 13 53 34.6–2.1 38.80N–.09 142.0E–.20 58–17 3.4b 15 1-59
IDC III 17 13 53 26.9–1.4 38.67N 141.83E 0 3.7,3.5b **¶17196737**
ISCJB III 17 13 53 33.9–1.4 38.80N–.08 142.0E–.10 67–12 3.5b,3.5b
JMA III 17 13 53 35.2–.10 38.80N 141.94E 56–1 4.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=28.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=20.7km s-min=11.2km az=26.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 13 58 35.9–.46 36.22N–.04 141.63E–.05 20–1 4.5b 136 1-147
NIED III 17 13 58 00 36.30N 141.60E 11 4.3W **¶16461889**
JMA III 17 13 58 36.5–.20 36.27N 141.57E 59–5 4.4
ISCJB III 17 13 58 36.6–.84 36.18N–.03 141.62E–.06 37–7 4.5b
IDC III 17 13 58 36.4–.60 36.19N 141.78E 25–2 4.2,4.2
NEIC III 17 13 58 37.8–.24 36.16N 141.66E 35 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ43.00000°,λ48.00000°. NP2:ϕ_s177.00000°,δ60.00000°,λ122.00000°. $M_0$3.71000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.5km az=175.7.
IDC Error ellipse: s-maj=13.6km s-min=12.7km az=122.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=155.0.
ISC III 17 14 17 06.4–1.6 35.63N–.05 141.1E–.10 26–8 13 0-56
IDC III 17 14 17 01.2–4.6 35.77N 141.44E 0 3.5,3.3b **¶17196740**
ISCJB III 17 14 17 05.0–1.9 35.64N–.05 141.2E–.20 28–9 3.4b,3.3b
JMA III 17 14 17 07.1–.10 35.63N 140.98E 26–1 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=130.6km s-min=36.3km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=20.9km s-min=8.6km az=177.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 14 20 10.7–1.2 35.87N–.05 141.05E–.10 31 3.5b 18 0-148
IDC III 17 14 20 07.5–1.3 35.73N 140.89E 0 3.5,3.5 **¶17196741**
ISCJB III 17 14 20 09.1–1.0 35.89N–.05 141.15E–.10 31 3.5b,3.5
JMA III 17 14 20 11.3–.10 35.86N 140.92E 38–1 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=20.1km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=6.4km az=159.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 14 26 30.0–2.3 36.2N–.10 141.5E–.10 26 9 1-56
JMA III 17 14 26 24.6–.50 36.24N 141.76E 64 3.1 **¶17196742**
IDC III 17 14 26 34.3–4.5 35.43N 140.39E 0 3.6,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=134.3km s-min=32.1km az=59.0.
JMA III 17 14 29 43.6 36.75N 140.58E 6–1 1.1
¶603049883
ISC III 17 14 31 34.8–1.8 38.31N–.07 141.7E–.10 53–20 19 1-58
IDC III 17 14 31 13.8–3.6 40.18N 141.83E 0 3.7,3.5 **¶17196744**
JMA III 17 14 31 34.9–.10 38.31N 141.61E 55–2 3.5,3.5
ISCJB III 17 14 31 34.5–1.3 38.30N–.06 141.6E–.10 59–19 3.6b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 14 37 48.9–2.3 36.4N–.10 141.9E–.10 19 8 1-56
JMA III 17 14 37 47.0–.20 36.40N 141.99E 82 2.9 **¶602667240**
IDC III 17 14 37 48.4–3.5 36.74N 141.78E 0 3.4,3.2b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=80.4km s-min=40.1km az=49.0.
ISC III 17 14 41 28.9–.62 36.02N–.04 141.47E–.06 29–4 4.0b 57 1-147
NEIC III 17 14 41 29.7–.31 35.97N 141.46E 35 4.3b **¶600553396**
JMA III 17 14 41 29.1–.20 36.06N 141.45E 45–3 3.8
ISCJB III 17 14 41 29.1–.80 36.05N–.04 141.46E–.07 43–7 4.0b
IDC III 17 14 41 30.6–.70 35.97N 141.42E 42–6 3.8,3.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=6.5km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.8km az=167.7.
IDC Error ellipse: s-maj=15.5km s-min=9.2km az=112.0.
ISC III 17 14 49 42.1–.83 40.12N–.05 142.41E–.06 46–6 4.5b 99 1-116
NEIC III 17 14 49 36.5–.49 39.40N 142.59E 35 4.7b **¶602667209**
JMA III 17 14 49 41.3–.10 40.13N 142.43E 31–2 4.4
IDC III 17 14 49 41.1–1.6 39.97N 142.50E 46–7 4.4,4.2
ISCJB III 17 14 49 41.7–.62 40.13N–.04 142.40E–.06 58–4 4.5b,4.2s
ISC Event type ke.
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC III 17 14 50 02.5–.45 35.45N–.04 140.79E–.05 33 4.4b,3.8s 74 0-148
NIED III 17 14 50 00 35.50N 141.00E 35 4.7W,3.8s **¶600553418**
ISCJB III 17 14 50 00.7–.32 35.39N–.03 140.93E–.06 33 4.4b,3.8s
JMA III 17 14 50 02.2–.10 35.52N 140.98E 36–1 4.4,3.8s
NEIC III 17 14 50 02.7–.33 35.44N 140.85E 35 4.8b,3.8s
IDC III 17 14 50 05.0–1.9 35.45N 140.80E 54–18 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ12.00000°,λ-33.00000°. NP2:ϕ_s160.00000°,δ84.00000°,λ-100.00000°. $M_0$1.16000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.7km az=0.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.2km az=86.0.
IDC Error ellipse: s-maj=17.2km s-min=10.5km az=81.0.
ISC III 17 15 00 29.3–.76 40.15N–.05 142.41E–.05 49–6 4.7b,3.9s 165 1-144
NIED III 17 15 00 00 40.20N 142.40E 41 4.6W,3.9s **¶16403026**
JMA III 17 15 00 28.5–.10 40.15N 142.43E 32–1 4.5,3.9s
ISCJB III 17 15 00 28.3–.53 40.13N–.03 142.45E–.05 56–4 4.6b,3.9s
NEIC III 17 15 00 31.0–.60 40.13N 142.40E 66–5 4.8b,3.9s
IDC III 17 15 00 30.1–2.2 40.17N 142.50E 58–19 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ19.00000°,λ60.00000°. NP2:ϕ_s32.00000°,δ74.00000°,λ100.00000°. $M_0$8.86000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=40.1.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.2km az=131.0.
IDC Error ellipse: s-maj=15.0km s-min=12.8km az=108.0.
JMA III 17 15 19 02.6–.60 39.09N 142.40E 18 2.6
¶603049885
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 17 15 25 24.3–2.6 36.71N–.09 141.5E–.10 26–14 3.2b 17 1-57
IDC III 17 15 25 18.9–2.5 36.75N 141.80E 0 3.4,3.3 **¶17196750**
ISCJB III 17 15 25 23.6–1.6 36.72N–.08 141.50E–.09 32–7 3.2b,3.3
JMA III 17 15 25 26.1–.10 36.75N 141.31E 46–2 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=27.7km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=12.5km az=151.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 17 15 26 04.4–9.4 35.18N 140.22E 0 3.6,3.4
¶603049886
IDC Error ellipse: s-maj=361.2km s-min=25.2km az=65.0.
JMA III 17 15 26 31.1–.10 35.63N 140.93E 26–1 2.7

¶17196751
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 15 27 24.5–1.4 37.2N–.10 142.0E–.10 19 3.4b 14 1-61
IDC III 17 15 27 20.2–1.2 37.26N 142.32E 0 3.5,3.4 ¶600553510
JMA III 17 15 27 24.9–.30 37.33N 141.94E 17–3 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=22.6km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 15 41 59.9–.94 36.52N–.05 141.36E–.08 26 3.6b 21 1-60
IDC III 17 15 41 55.5–1.1 36.61N 141.62E 0 4.4L,3.9 ¶600553538
ISCJB III 17 15 41 57.9–.70 36.50N–.04 141.45E–.07 26 3.8s,3.5b
JMA III 17 15 42 03.0–.10 36.58N 141.10E 48–1 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=17.1km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.8km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 15 43 35.5–.20 36.77N 141.30E 48–2 2.7
¶603049887
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 15 45 14.1–.62 38.49N–.05 142.22E–.06 24 3.9b 48 1-145
IDC III 17 15 45 10.6–.74 38.50N 142.32E 0 4.0,3.9 ¶16478943
ISCJB III 17 15 45 12.6–.45 38.50N–.05 142.29E–.05 24 4.0b,3.9
JMA III 17 15 45 16.5–.20 38.52N 142.05E 43–3 4.1,3.9
NEIC III 17 15 45 17.4–.80 38.50N 142.27E 52–7 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.6km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=6.0km az=170.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.0km az=124.0.
JMA III 17 15 51 22.3–.10 35.62N 140.95E 26–1 2.0
¶602667140
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 15 51 50.5–.86 35.79N–.03 140.86E–.05 13–5 4.3b 83 0-148
NIED III 17 15 51 00 35.80N 140.90E 11 4.1W ¶600553556
IDC III 17 15 51 48.5–.59 35.74N 140.88E 0 4.2,4.1b
JMA III 17 15 51 50.6–.10 35.81N 140.88E 11–1 4.2,4.1b
ISCJB III 17 15 51 50.2–.48 35.78N–.03 140.85E–.05 21–3 4.2b,4.1b
NEIC III 17 15 51 52.6–2.1 35.84N 140.84E 24–15 4.5b,4.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ37.00000°,λ-77.00000°. NP2:ϕ_s164.00000°,δ55.00000°,λ-100.00000°. $M_0$1.83000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=15.0km az=34.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.8km az=157.3.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.3km az=97.0.
JMA III 17 15 56 21.5–.10 35.82N 140.88E 10–1 3.1
¶17196760
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 16 02 06.4–.10 37.19N 141.36E 49–1 3.7
¶602667120
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 17 16 15 49.2–5.9 38.73N 141.01E 0 3.6,3.4b
¶17196762
IDC Error ellipse: s-maj=118.6km s-min=61.1km az=175.0.
ISC III 17 16 30 00.9–1.2 36.73N–.03 140.59E–.06 4–13 3.5b 16 0-60
ISCJB III 17 16 30 00.2–1.4 36.72N–.06 140.7E–.10 9–7 3.5b ¶17196765
JMA III 17 16 30 00.7 36.73N 140.59E 4–1 3.1
IDC III 17 16 30 00.1–5.7 36.94N 140.42E 160–37 3.6,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=21.6km s-min=4.9km az=27.1.
JMA Event type fe.
IDC Error ellipse: s-maj=76.8km s-min=25.5km az=68.0.
JMA III 17 16 30 32.2–.20 38.05N 141.74E 51–4 3.7
¶603049889
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 17 16 30 34.6–8.7 36.48N 141.15E 0 3.7,3.6
¶17196768
IDC Error ellipse: s-maj=315.9km s-min=26.3km az=64.0.
ISC III 17 16 32 49.8–2.1 37.7N–.10 142.0E–.10 35 3.4b 8 1-63
IDC III 17 16 32 35.0–1.5 38.90N 142.70E 0 3.6,3.4b ¶17196769
JMA III 17 16 32 51.1–.20 37.68N 141.78E 33–3 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=74.0km s-min=29.1km az=120.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 16 35 15.5–1.1 38.94N–.07 142.58E–.08 27 3.5b 16 1-63
ISCJB III 17 16 35 13.8–.93 38.86N–.07 142.71E–.09 27 3.4b ¶17196770
JMA III 17 16 35 14.0–.30 38.96N 142.65E 15–4 3.6
IDC III 17 16 35 19.5–4.3 38.64N 142.56E 75–41 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=9.5km az=160.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=19.3km az=97.0.
ISC III 17 16 44 33.4–.38 35.86N–.03 141.51E–.04 37–1 4.8b,4.2s 400 1-149
NIED III 17 16 44 00 36.00N 141.50E 26 4.8W,4.2s ¶600553653
IDC III 17 16 44 28.0–.43 35.90N 141.52E 0 4.6,4.6
MOS III 17 16 44 30.7–1.1 35.89N 141.46E 29 5.0b,4.0s
BJI III 17 16 44 31.3 35.61N 141.47E 42 5.1b,4.7b
ISCJB III 17 16 44 32.9–.43 35.86N–.02 141.42E–.03 45–3 4.8b,4.2s
JMA III 17 16 44 32.1–.10 35.99N 141.52E 40–2 4.8,4.2s
NEIC III 17 16 44 34.4–.50 35.86N 141.40E 45–4 4.9b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ29.00000°,λ-84.00000°. NP2:ϕ_s276.00000°,δ61.00000°,λ-94.00000°. $M_0$1.62000×10^{16}
IDC Error ellipse: s-maj=12.9km s-min=10.6km az=105.0.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=116.3.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.6km az=140.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=132.0.
ISC III 17 16 53 00.5–2.6 36.46N–.08 141.7E–.10 11–13 3.5b 15 1-47
IDC III 17 16 52 47.4–11 35.52N 142.88E 0 3.8L,3.6 ¶17196771
JMA III 17 16 53 03.0–.10 36.43N 141.71E 61–4 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=256.5km s-min=93.2km az=170.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 17 12 12.7–.84 39.69N–.06 142.80E–.07 18 3.6b 24 1-73
NIED III 17 17 12 00 39.60N 142.90E 8 3.7W ¶17196773
JMA III 17 17 12 10.8–.30 39.63N 142.86E 16–3 4.4
ISCJB III 17 17 12 10.8–.66 39.60N–.06 142.90E–.06 18 3.5b
IDC III 17 17 12 17.0–3.4 39.56N 142.94E 58–30 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ41.00000°,λ-120.00000°. NP2:ϕ_s219.00000°,δ56.00000°,λ-67.00000°. $M_0$4.46000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.5km az=166.2.
IDC Error ellipse: s-maj=26.2km s-min=17.4km az=95.0.
JMA III 17 17 15 57.7–.10 36.75N 141.32E 49–2 3.0
¶602666926
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 17 19 58.5 36.79N 140.57E 6–1 2.6
¶16478962
JMA III 17 17 22 10.6–.10 39.61N 142.14E 47–1 2.8
¶602666913
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 17 22 43.8–.78 40.33N–.05 142.35E–.07 20–6 4.3b 63 1-88
NIED III 17 17 22 00 40.30N 142.40E 5 4.2W ¶16452058
JMA III 17 17 22 43.0–.10 40.31N 142.39E 26–1 4.2
NEIC III 17 17 22 47.6–.80 40.40N 142.34E 49–7 4.5b
IDC III 17 17 22 48.5–2.3 40.31N 142.33E 62–21 4.1,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ40.00000°,λ10.00000°. NP2:ϕ_s80.00000°,δ84.00000°,λ130.00000°. $M_0$2.22000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.6km az=120.0.
IDC Error ellipse: s-maj=13.9km s-min=12.9km az=110.0.
JMA III 17 17 27 27.3–.20 36.42N 141.64E 28 2.4
¶602666906
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 17 33 52.4–.30 38.35N 142.09E 36 3.6
¶602666900
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 17 34 50.6–1.4 38.65N–.09 142.0E–.10 41 3.9b 15 1-68
NIED III 17 17 34 00 38.60N 141.90E 38 4.2W ¶600553720
ISCJB III 17 17 34 48.5–1.0 38.61N–.09 142.2E–.10 41 3.9b
IDC III 17 17 34 49.9–6.5 38.72N 142.25E 42–44 3.9,3.8
JMA III 17 17 34 52.0–.10 38.64N 141.88E 51–1 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ44.00000°,λ-109.00000°. NP2:ϕ_s347.00000°,δ49.00000°,λ-73.00000°. $M_0$2.59000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=11.5km az=175.6.
IDC Error ellipse: s-maj=68.4km s-min=26.3km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 18 13 57.3–.59 36.77N–.05 141.96E–.06 19 4.2b 54 1-90
NIED III 17 18 13 00 36.70N 141.80E 35 4.2W ¶16453160
IDC III 17 18 13 54.3–.81 36.82N 142.06E 0 4.1,4.0
ISCJB III 17 18 13 55.4–.44 36.75N–.05 142.02E–.05 19 4.0b,4.0
JMA III 17 18 13 58.4–.30 36.72N 141.83E 37–5 4.1,4.0
NEIC III 17 18 13 58.6–2.8 36.76N 142.06E 30–18 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ24.00000°,λ94.00000°. NP2:ϕ_s22.00000°,δ66.00000°,λ88.00000°. $M_0$2.45000×10^{15}
IDC Error ellipse: s-maj=19.3km s-min=16.9km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.3km az=172.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.4km az=129.0.
ISC III 17 18 17 29.5–.46 38.31N–.05 142.39E–.06 35 4.2b 86 1-145
NIED III 17 18 17 00 38.30N 142.30E 17 4.2W ¶16453161
JMA III 17 18 17 27.6–.20 38.30N 142.32E 32–4 4.4
ISCJB III 17 18 17 28.2–.35 38.32N–.04 142.33E–.05 35 4.1b,3.2s
IDC III 17 18 17 29.0–.52 38.32N 142.27E 26–3 4.1,4.0
NEIC III 17 18 17 29.1–2.0 38.33N 142.33E 28–14 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ33.00000°,λ-137.00000°. NP2:ϕ_s344.00000°,δ68.00000°,λ-65.00000°. $M_0$2.18000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.9km az=144.0.
IDC Error ellipse: s-maj=13.1km s-min=10.8km az=107.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=126.0.
ISC III 17 18 26 16.7–2.1 35.99N–.06 141.24E–.07 6–12 3.8b 36 0-147
NIED III 17 18 26 00 36.00N 141.20E 8 3.8W ¶16453163
IDC III 17 18 26 15.7–.70 35.94N 141.21E 0 4.0,3.8
ISCJB III 17 18 26 16.5–1.4 35.98N–.05 141.32E–.06 15–9 3.8b,3.8
NEIC III 17 18 26 17.3–3.3 35.95N 141.20E 10–20 4.6b,3.8
JMA III 17 18 26 18.4–.10 35.98N 141.19E 29–2 3.8,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ44.00000°,λ65.00000°. NP2:ϕ_s112.00000°,δ51.00000°,λ112.00000°. $M_0$4.91000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=18.1km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.4km az=37.6.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.4km az=149.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 18 33 49.0–.30 37.42N 141.88E 23–4 3.8
¶16453164
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 18 38 08.9–.56 37.18N–.04 141.22E–.05 26–3 4.7b,4.1s 198 0-147
NIED III 17 18 38 00 37.10N 141.30E 26 4.6W,4.1s ¶602443676
MOS III 17 18 38 08.7–1.1 37.27N 141.14E 33 4.9b,4.1s
ISCJB III 17 18 38 08.5–.66 37.15N–.03 141.19E–.04 33–4 4.6b,4.1s
JMA III 17 18 38 09.3–.10 37.18N 141.17E 30–1 4.7,4.1s
IDC III 17 18 38 09.6–.52 37.20N 141.05E 28–3 4.4,4.3
NEIC III 17 18 38 11.5–.62 37.23N 141.06E 41–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ44.00000°,λ-51.00000°. NP2:ϕ_s235.00000°,δ57.00000°,λ-122.00000°. $M_0$1.03000×10^{16}
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=93.9.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=28.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=10.1km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=136.0. Recorded [3 JMA] in Fukushima.
JMA III 17 18 49 41.9–.10 35.70N 140.88E 9–1 1.5
¶603049893
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 17 18 50 19.1–1.0 35.60N 141.94E 0 3.9,3.6
¶17196778
IDC Error ellipse: s-maj=31.6km s-min=22.8km az=100.0.
ISC III 17 19 00 00.7–.68 36.57N–.06 141.99E–.08 19 4.2b 29 1-147
IDC III 17 18 59 57.7–.81 36.58N 142.04E 0 4.4L,4.3 ¶600553880
ISCJB III 17 18 59 58.6–.57 36.52N–.05 142.06E–.07 19 4.1b,4.3
JMA III 17 19 00 00.6–.30 36.64N 141.90E 25–3 4.3,4.3
NEIC III 17 19 00 03.1–1.6 36.48N 141.98E 40–14 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=19.2km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.9km az=17.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=11.0km az=71.0.
ISC III 17 19 02 55.2–.43 38.26N–.05 142.29E–.07 37–1 4.8b 125 1-145
NIED III 17 19 02 00 38.30N 142.30E 41 4.8W ¶16461871
JMA III 17 19 02 53.4–.20 38.27N 142.28E 35–4 4.7
ISCJB III 17 19 02 53.6–.75 38.22N–.04 142.29E–.06 39–5 4.7b,4.3s
IDC III 17 19 02 55.5–.42 38.28N 142.18E 37–3 4.5,4.4
NEIC III 17 19 02 56.1–.75 38.24N 142.29E 46–6 5.0b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ49.00000°,λ-58.00000°. NP2:ϕ_s14.00000°,δ50.00000°,λ-122.00000°. $M_0$1.68000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.5km az=22.7.
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=111.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=123.0.
ISC III 17 19 05 41.9–.41 36.26N–.04 141.77E–.04 23–2 5.2s,5.0b 472 1-147
NIED III 17 19 05 00 36.20N 141.90E 14 4.8W,5.0b ¶602667381
MOS III 17 19 05 40.1–.85 36.19N 141.93E 27 5.2b,5.0b
JMA III 17 19 05 41.2–.20 36.24N 141.91E 57–5 4.8,5.0b
BJI III 17 19 05 41.8 36.02N 141.46E 25 5.4b,5.2s
IDC III 17 19 05 42.3–.54 36.12N 141.85E 28–4 4.7,4.6
ISCJB III 17 19 05 42.6–.54 36.18N–.02 141.74E–.03 39–4 5.2s,5.0b
NEIC III 17 19 05 42.6–1.4 36.20N 141.77E 26–10 5.1b,5.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ16.00000°,λ132.00000°. NP2:ϕ_s4.00000°,δ78.00000°,λ79.00000°. $M_0$1.62000×10^{16}
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=125.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=10.5km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=25.8.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=131.0.
ISC III 17 19 11 33.8–1.1 36.79N–.03 140.62E–.05 9–8 3.6b 18 0-60
ISCJB III 17 19 11 32.8–.86 36.76N–.04 140.72E–.07 15–6 3.4b ¶600553890
IDC III 17 19 11 32.7–1.8 36.65N 140.65E 0 3.6,3.4
JMA III 17 19 11 33.8 36.80N 140.58E 5–1 3.4,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=19.9.
IDC Error ellipse: s-maj=41.2km s-min=22.5km az=52.0.
JMA Event type fe.

ISC III 17 19 40 23.2–1.1 36.84N–.03 140.48E–.03 6–8 3.5b 27 0-76
ISCJB III 17 19 40 22.8–.59 36.83N–.03 140.56E–.04 15–5 3.5b **¶17196784**
IDC III 17 19 40 22.2–.91 36.81N 140.40E 0 3.8,3.6
JMA III 17 19 40 23.1 36.84N 140.51E 5–2 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.0km az=33.6.
IDC Error ellipse: s-maj=22.3km s-min=19.7km az=163.0.
JMA Event type fe.
JMA III 17 19 43 34.6–.10 39.07N 142.37E 31–2 3.6
¶602666731
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 17 20 03 07.1–3.3 35.46N 141.58E 0 4.0s,3.9
¶17196793
IDC Error ellipse: s-maj=104.6km s-min=26.2km az=60.0.
JMA III 17 20 03 10.1–.10 37.36N 141.40E 24–1 2.4
¶603049894
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 20 09 15.0–1.1 35.85N–.04 140.88E–.06 13–6 3.6b 19 0-81
NIED III 17 20 09 00 35.80N 140.80E 17 3.6W **¶17196794**
IDC III 17 20 09 12.2–1.2 35.59N 140.92E 0 3.9,3.9s
ISCJB III 17 20 09 14.3–.93 35.83N–.04 140.95E–.08 19–5 4.2s,3.5b
JMA III 17 20 09 15.1–.10 35.80N 140.83E 19–1 3.9,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ17.00000°,λ-108.00000°. NP2:ϕ_s194.00000°,δ74.00000°,λ-85.00000°. $M_0$3.31000×10^{14}
IDC Error ellipse: s-maj=31.1km s-min=24.1km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.3km az=174.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 20 17 51.7–2.4 38.3N–.10 141.9E–.10 30 11 1-44
IDC III 17 20 17 35.2–10 36.79N 142.82E 0 3.3b,3.2 **¶17196795**
JMA III 17 20 17 52.7–.20 38.25N 141.80E 49–3 3.0,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=180.6km s-min=74.0km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 20 27 56.4–.83 36.53N–.05 141.87E–.07 19 3.7b 24 1-90
NIED III 17 20 27 00 36.60N 141.80E 26 3.8W **¶16461894**
IDC III 17 20 27 53.7–.87 36.60N 141.87E 0 3.8,3.7L
ISCJB III 17 20 27 54.7–.65 36.50N–.04 141.93E–.06 19 3.6b,3.7L
JMA III 17 20 27 58.3–.10 36.59N 141.79E 45–4 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ34.00000°,λ22.00000°. NP2:ϕ_s88.00000°,δ78.00000°,λ122.00000°. $M_0$5.13000×10^{14}
IDC Error ellipse: s-maj=22.0km s-min=18.7km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.9km az=138.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 20 28 17.0 40.03N 141.45E 11–1 1.0
¶600554053
ISC III 17 20 31 30.7–1.5 36.87N–.07 140.60E–.05 4–12 3.8b 17 0-61
IDC III 17 20 31 29.8–1.3 36.87N 140.64E 0 4.0s,4.0 **¶603049896**
ISCJB III 17 20 31 30.9–.84 36.90N–.05 140.70E–.06 18–7 3.6b,4.0
JMA III 17 20 31 31.5 36.92N 140.59E 6–2 3.6,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=27.9km s-min=22.3km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=8.3km az=149.1.
JMA Event type fe.
JMA III 17 20 32 28.8–.20 35.93N 140.80E 34–2 1.6
¶603049895
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 20 42 52.0–1.9 35.91N–.08 141.2E–.10 10 8 0-60
IDC III 17 20 42 29.5–2.7 38.77N 142.55E 0 4.0L,3.7 **¶602666612**
ISCJB III 17 20 42 49.6–1.4 35.96N–.06 141.4E–.10 10 3.6b,3.7
JMA III 17 20 42 53.6–.10 35.92N 141.08E 24–1 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=67.5km s-min=34.3km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=9.0km az=166.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 20 50 42.3–1.7 40.27N–.07 142.4E–.10 31 3.7b 17 1-60
JMA III 17 20 50 42.1–.20 40.17N 142.40E 33–2 3.3 **¶17196808**
IDC III 17 20 50 44.6–3.0 40.59N 141.21E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=87.7km s-min=24.4km az=71.0.
JMA III 17 20 55 13.3–.20 37.69N 141.86E 11–2 3.7
¶602666602
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 21 00 58.4–1.9 36.5N–.10 141.8E–.10 19 9 1-57
IDC III 17 21 00 54.3–3.5 36.51N 142.37E 0 3.5,3.2 **¶602666586**
JMA III 17 21 00 56.9–.30 36.91N 142.20E 47 3.2,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=84.0km s-min=38.9km az=54.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 17 21 01 20.0–.30 39.64N 142.68E 23–3 3.5
¶602666583
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 17 21 06 30.2–.48 35.72N–.04 141.40E–.04 30–3 4.9b,4.3s 463 0-145
NIED III 17 21 06 00 35.80N 141.50E 26 4.7W,4.3s **¶16334568**
IDC III 17 21 06 25.3–.38 35.67N 141.40E 0 4.7,4.6
BJI III 17 21 06 26.2 35.56N 141.63E 34 5.2b,4.6b
JMA III 17 21 06 27.7–.20 35.79N 141.45E 21–2 4.8,4.6b
MOS III 17 21 06 29.0–.96 35.68N 141.32E 33 5.1b,4.0s
ISCJB III 17 21 06 29.2–.63 35.68N–.02 141.31E–.03 33–4 4.8b,4.3s
NEIC III 17 21 06 30.6–.51 35.67N 141.32E 32–3 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ42.00000°,λ-88.00000°. NP2:ϕ_s178.00000°,δ48.00000°,λ-92.00000°. $M_0$1.48000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=9.4km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=115.5.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=159.8.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=148.0.
JMA III 17 21 07 01.6–.50 39.66N 142.68E 37 3.3
¶600554125
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
JMA III 17 21 09 19.7–.10 36.24N 140.94E 40–1 2.1
¶602666563
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 21 09 52.9–1.9 36.76N–.06 141.21E–.08 8–10 4.0b 28 0-69
NIED III 17 21 09 00 36.80N 141.20E 8 3.9W **¶600554128**
ISCJB III 17 21 09 50.6–1.3 36.73N–.05 141.35E–.06 7–6 3.9b
IDC III 17 21 09 51.1–.96 36.64N 141.28E 0 4.1L,4.0
JMA III 17 21 09 52.7–.10 36.79N 141.23E 35–1 4.0,4.0
NEIC III 17 21 09 56.5–2.3 36.59N 141.27E 37–17 4.0b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ40.00000°,λ-128.00000°. NP2:ϕ_s234.00000°,δ60.00000°,λ-63.00000°. $M_0$9.32000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=8.3km az=38.6.
IDC Error ellipse: s-maj=24.1km s-min=17.8km az=79.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=14.1km az=92.0.
ISC III 17 21 18 13.9–.54 37.45N–.04 141.38E–.05 33–3 4.3b 78 1-147
NIED III 17 21 18 00 37.40N 141.40E 32 4.2W **¶602443687**
JMA III 17 21 18 13.8–.10 37.44N 141.36E 34–1 4.4
IDC III 17 21 18 13.7–.56 37.38N 141.25E 35–3 4.6L,4.1
NEIC III 17 21 18 24.7–.58 37.86N 139.89E 50–5 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ62.00000°,λ-157.00000°. NP2:ϕ_s193.00000°,δ70.00000°,λ-30.00000°. $M_0$2.51000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=15.2km s-min=12.7km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=146.0. Recorded [3 JMA] in Fukushima.

ISC III 17 21 24 20.5–.34 39.10N–.04 142.44E–.04 30–2 4.8b,3.8s 371 1-155
NIED III 17 21 24 00 39.10N 142.40E 32 4.5W,3.8s **¶602666543**
JMA III 17 21 24 20.4–.20 39.15N 142.43E 32–3 4.7,3.8s
ISCJB III 17 21 24 20.2–.15 39.08N–.02 142.35E–.03 34 4.7b,3.7s
MOS III 17 21 24 20.2–.95 39.18N 142.33E 33 5.0b,3.7s
IDC III 17 21 24 21.4–.46 39.10N 142.34E 33–3 4.5,4.5
NEIC III 17 21 24 23.0–.37 39.11N 142.28E 45–3 4.8b,4.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ28.00000°,λ-124.00000°. NP2:ϕ_s180.00000°,δ68.00000°,λ-74.00000°. $M_0$6.97000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=150.8.
MOS Error ellipse: s-maj=7.3km s-min=5.6km az=99.0.
IDC Error ellipse: s-maj=11.7km s-min=10.4km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.
JMA III 17 21 29 25.1–.10 35.85N 140.90E 13–1 2.2
¶603049898
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 21 29 38.4–.60 39.48N 142.90E 21 3.5
¶602666537
JMA Error ellipse: s-maj=4.4km s-min=4.3km az=-1.0.
ISC III 17 21 50 14.3–2.0 36.3N–.30 141.9E–.20 23 3.5b 4 1-56
IDC III 17 21 50 07.1–3.0 36.71N 142.57E 0 3.3,3.3b **¶603049899**
ISCJB III 17 21 50 10.3–1.6 36.3N–.20 141.9E–.10 23 3.3b,3.3b
JMA III 17 21 50 18.7–.20 35.75N 141.43E 11–3 2.7,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=77.1km s-min=35.8km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=16.4km az=177.5.
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC III 17 21 51 40.2–2.0 36.59N–.07 141.1E–.10 32–11 3.5b 16 0-57
IDC III 17 21 51 33.9–2.5 36.69N 141.53E 0 3.4,3.3 **¶17196821**
ISCJB III 17 21 51 40.6–1.2 36.60N–.06 141.1E–.10 49–7 3.4b,3.3
JMA III 17 21 51 41.5–.10 36.63N 141.04E 45–1 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=29.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=9.2km az=27.1.
JMA Event type fe.
JMA III 17 22 00 14.2–.30 36.63N 141.98E 69 2.9
¶603049900
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 17 22 01 13.0–.59 38.17N–.05 142.00E–.06 30 3.9b 45 1-146
NIED III 17 22 01 00 38.10N 142.10E 5 4.2W **¶600554244**
IDC III 17 22 01 08.3–.65 38.12N 141.95E 0 4.2,4.0
JMA III 17 22 01 09.2–.20 38.14N 142.14E 17–3 4.4,4.0
ISCJB III 17 22 01 10.9–.42 38.13N–.04 142.10E–.05 30 3.9b,2.9s
NEIC III 17 22 01 12.5–3.2 38.12N 141.95E 28–21 4.0b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ37.00000°,λ-102.00000°. NP2:ϕ_s166.00000°,δ54.00000°,λ-81.00000°. $M_0$2.21000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=15.5km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.4km az=26.3.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.2km az=167.0.
ISC III 17 22 17 59.6–1.2 36.39N–.05 141.17E–.09 32 11 1-56
IDC III 17 22 17 55.6–1.7 36.32N 141.35E 0 3.9,3.6b **¶600554297**
ISCJB III 17 22 17 58.5–1.0 36.39N–.05 141.22E–.09 32 3.7b,3.6b
JMA III 17 22 17 59.1–.10 36.41N 141.18E 44–2 3.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=44.6km s-min=33.8km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.9km az=172.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 17 22 31 32.3–3.2 38.68N 141.93E 0 3.6,3.5b
¶17196834
IDC Error ellipse: s-maj=72.2km s-min=35.0km az=70.0.
ISC III 17 22 33 55.9–1.5 36.67N–.08 141.80E–.10 19 3.4b 14 1-57
IDC III 17 22 33 51.4–3.1 36.63N 142.19E 0 3.5,3.3 **¶600554340**
ISCJB III 17 22 33 53.6–1.3 36.68N–.07 142.01E–.10 19 3.2b,3.3
JMA III 17 22 33 56.3–.20 36.70N 141.87E 49–4 3.1,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=76.5km s-min=34.7km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=10.4km az=31.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 22 38 18.0–.20 35.76N 141.79E 8–3 3.0
¶603049901
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 17 22 43 35.2–1.3 36.0N–.20 141.7E–.10 32 3.4b 9 1-56
IDC III 17 22 43 30.0–1.4 35.94N 141.86E 0 3.5,3.4 **¶603049902**
ISCJB III 17 22 43 32.4–1.2 35.9N–.20 141.9E–.10 32 3.4b,3.4
JMA III 17 22 43 43.2 36.79N 140.63E 4–1 2.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=27.6km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=26.2km s-min=15.2km az=8.4.
ISC III 17 22 49 28.1–2.3 36.4N–.10 141.7E–.10 26 8 1-56
IDC III 17 22 49 16.6–1.8 37.26N 142.57E 0 3.6,3.3b **¶603049903**
JMA III 17 22 49 29.1–.20 36.42N 141.65E 47 2.7,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=58.4km s-min=33.7km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 17 22 53 18.1–2.8 37.35N 141.75E 0 3.5,3.4b
¶17196840
IDC Error ellipse: s-maj=67.4km s-min=36.7km az=64.0.
JMA III 17 23 01 45.9–.10 35.85N 140.84E 7–1 3.9
¶602666343
JMA Event type fe.
ISC III 17 23 11 38.0–.32 38.97N–.04 142.67E–.04 27 4.8b,4.0s 352 1-151
NIED III 17 23 11 00 39.00N 142.70E 5 4.5W,4.0s **¶16339121**
IDC III 17 23 11 33.5–.47 38.90N 142.64E 0 4.6,4.5
JMA III 17 23 11 34.6–.20 38.98N 142.69E 12–2 4.7,4.5
ISCJB III 17 23 11 36.8–.15 38.95N–.03 142.61E–.02 27 4.8b,4.0s
MOS III 17 23 11 37.5–.90 38.97N 142.58E 33 5.0b,4.0s
NEIC III 17 23 11 40.8–.40 38.98N 142.57E 45–3 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ42.00000°,λ-87.00000°. NP2:ϕ_s289.00000°,δ48.00000°,λ-93.00000°. $M_0$6.61000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.5km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.8.
MOS Error ellipse: s-maj=7.4km s-min=5.3km az=100.1.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=134.0.
ISC III 17 23 16 28.8–1.9 37.37N–.04 141.89E–.06 12–11 3.8b 33 1-77
NIED III 17 23 16 00 37.40N 141.90E 41 4.0W **¶602666323**
JMA III 17 23 16 32.0–.20 37.44N 141.87E 32–3 4.2
IDC III 17 23 16 36.0–2.6 37.37N 141.78E 71–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ25.00000°,λ39.00000°. NP2:ϕ_s98.00000°,δ75.00000°,λ110.00000°. $M_0$1.15000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.7km s-min=16.3km az=85.0.
JMA III 17 23 25 10.8–.10 35.98N 141.14E 21–2 3.6
NIED III 17 23 25 00 36.00N 141.10E 32 4.0W **¶600554436**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ64.00000°,λ-16.00000°. NP2:ϕ_s119.00000°,δ75.00000°,λ-153.00000°. $M_0$1.00000×10^{15}
ISC III 17 23 30 52.2–1.1 38.7N–.20 142.7E–.10 24 3.3b 9 4-88
IDC III 17 23 30 48.5–1.3 38.67N 142.72E 0 3.7,3.5 **¶17196843**
ISCJB III 17 23 30 50.4–1.0 38.7N–.10 142.7E–.20 24 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 23 34 11.1–.10 35.83N 140.91E 38–1 2.4
¶603049904

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 17 23 36 56.4–1.2 39.06N–.08 142.39E–.09 27 3.7b 15 1-59
NIED III 17 23 36 00 39.00N 142.40E 29 3.7W **¶600554448**
ISCJB III 17 23 36 55.1–1.0 39.03N–.08 142.47E–.08 27 3.5b
JMA III 17 23 36 56.3–.10 38.98N 142.39E 25–3 4.1
IDC III 17 23 37 01.0–4.5 38.85N 142.33E 74–42 3.6,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ22.00000°,λ-115.00000°. NP2:ϕ_s164.00000°,δ70.00000°,λ-80.00000°. $M_0$3.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=8.8km az=160.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=24.5km az=80.0.
IDC III 17 23 41 26.6–3.1 38.18N 142.64E 0 4.0,3.6b
¶17196846
IDC Error ellipse: s-maj=300.8km s-min=24.6km az=111.0.
IDC III 17 23 48 32.2–2.6 36.30N 141.69E 0 3.5,3.5b
¶17196848
IDC Error ellipse: s-maj=72.3km s-min=28.6km az=63.0.
JMA III 17 23 50 43.7–.20 37.77N 141.58E 42–3 2.7
¶603049906
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 17 23 53 37.7–.40 38.34N 142.44E 19 3.5
¶602666261
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 17 23 57 21.7–.10 37.25N 141.13E 30–1 2.4
¶603049907
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 00 12 03.7–.39 35.56N–.04 141.96E–.04 4–2 4.8b,4.6s 354 1-152
NIED III 18 00 12 00 35.60N 142.10E 14 4.8W,4.6s **¶16334575**
ISCJB III 18 00 12 02.7–.89 35.51N–.03 141.94E–.03 6–5 4.8b,4.6s
IDC III 18 00 12 02.9–.45 35.53N 141.99E 0 4.5,4.4
JMA III 18 00 12 03.9–.30 35.59N 142.14E 43 5.0,4.4
NEIC III 18 00 12 04.5–2.4 35.51N 141.93E 6–15 4.9b,4.4
BJI III 18 00 12 04.0 35.61N 141.93E 10 5.1b,4.9s
MOS III 18 00 12 06.2–.98 35.54N 141.84E 30 4.9b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ33.00000°,λ84.00000°. NP2:ϕ_s32.00000°,δ57.00000°,λ94.00000°. $M_0$1.74000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=155.4.
IDC Error ellipse: s-maj=13.2km s-min=10.6km az=103.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=126.0.
MOS Error ellipse: s-maj=8.8km s-min=5.5km az=112.9.
ISC III 18 00 35 30.9–1.2 37.3N–.10 141.86E–.09 19 3.4b 10 1-61
IDC III 18 00 35 28.7–1.1 37.19N 142.30E 0 3.6,3.5b **¶17196899**
JMA III 18 00 35 29.0–.20 37.67N 141.98E 26–4 3.5,3.5b
ISCJB III 18 00 35 30.1–.87 37.3N–.10 142.06E–.08 19 3.4b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 00 41 19.3–.38 35.90N–.03 141.67E–.03 29–2 5.3b,5.0s 918 1-158
NIED III 18 00 41 00 36.00N 141.90E 8 5.4W,5.0s **¶16334576**
IDC III 18 00 41 14.6–.36 35.84N 141.75E 0 5.1,5.1
JMA III 18 00 41 16.2–.30 35.99N 141.83E 28 5.4,5.1
ISCJB III 18 00 41 17.2–.71 35.87N–.02 141.64E–.02 22–4 5.3b,5.0s
NEIC III 18 00 41 18.7–1.2 35.88N 141.64E 23–8 5.3b,5.0s
GCMT III 18 00 41 18.7–.20 35.92N 141.72E 12 5.1W,5.0s
BJI III 18 00 41 18.4 36.08N 141.50E 30 5.2b,5.2b
MOS III 18 00 41 18.8–.93 35.94N 141.62E 33 5.6b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ25.00000°,λ-27.00000°. NP2:ϕ_s109.00000°,δ79.00000°,λ-113.00000°. $M_0$1.27000×10^{17}
IDC Error ellipse: s-maj=10.9km s-min=9.8km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=152.6.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=138.0. Recorded [3 JMA] in Chiba and Ibaraki.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c64; s114,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.00±.11 $M_{\theta\theta}$-2.08±.10; $M_{\phi\phi}$5.08±.09; $M_{r\theta}$0.55±.31; $M_{\theta f}$-3.21±.08; $M_{\phi r}$-0.41±.28; Best double couple: NP1:ϕ_s300.00000°,δ69.00000°,λ-151.00000°. NP2:ϕ_s199.00000°,δ64.00000°,λ-24.00000°. Principal axes: T 6.3440,Plg4.0000°,Azm69.0000°; N -2.7840,Plg55.0000°,Azm334.0000°; P -3.5600,Plg35.0000°,Azm161.0000° $M_0$4.95200×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=116.5.
JMA III 18 00 46 51.2–.10 38.93N 142.31E 30–2 4.0
¶602671904
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 00 50 02.9–.20 37.73N 141.93E 16–2 3.6
¶602671902
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 00 52 05.4–1.2 35.71N–.04 141.37E–.04 13–7 4.7b 263 0-147
NIED III 18 00 52 00 35.80N 141.40E 26 4.5W **¶16334577**
IDC III 18 00 52 03.2–.48 35.65N 141.39E 0 4.6,4.5
NEIC III 18 00 52 05.7–1.9 35.64N 141.35E 14–12 4.8b,4.5
ISCJB III 18 00 52 05.6–.76 35.64N–.03 141.37E–.04 26–5 4.7b,4.5
JMA III 18 00 52 06.0–.20 35.77N 141.43E 24–2 4.4,4.5
MOS III 18 00 52 06.9–1.0 35.73N 141.40E 33 4.9b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ40.00000°,λ-79.00000°. NP2:ϕ_s169.00000°,δ51.00000°,λ-99.00000°. $M_0$5.83000×10^{15}
IDC Error ellipse: s-maj=13.3km s-min=11.3km az=113.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=39.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.6km az=103.7.
ISC III 18 01 11 21.5–1.0 35.8N–.20 141.77E–.09 23 3.5b 12 1-91
IDC III 18 01 11 17.9–1.1 35.81N 141.80E 0 3.8,3.6 **¶600554609**
ISCJB III 18 01 11 19.6–.93 35.8N–.20 141.85E–.09 23 3.5b,3.6
JMA III 18 01 11 19.4–.30 36.02N 141.81E 7 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=22.4km az=3.0.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=8.8km az=166.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 01 11 29.3–.30 38.04N 141.99E 39 3.5
¶602672501
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC III 18 01 29 45.9–1.4 35.35N 141.92E 0 3.7,3.7s
¶17196908
IDC Error ellipse: s-maj=33.5km s-min=28.2km az=59.0.
ISC III 18 01 35 43.3–3.9 39.26N–.09 143.0E–.10 1–23 3.7b 20 1-59
IDC III 18 01 35 40.3–1.4 38.86N 143.35E 0 3.8,3.6 **¶17196910**
JMA III 18 01 35 42.4–.20 39.14N 142.95E 0 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=22.8km az=122.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 18 01 39 24.3–.10 38.87N 142.53E 20–2 3.8
¶603049908
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 01 41 26.9–1.8 36.57N–.05 141.9E–.10 42–16 3.9b 39 1-147
NIED III 18 01 41 00 36.60N 141.90E 29 4.2W **¶600554641**
JMA III 18 01 41 25.2–.20 36.61N 141.92E 42–5 4.2
ISCJB III 18 01 41 25.2–1.2 36.52N–.04 141.94E–.09 43–10 3.9b,3.0s
IDC III 18 01 41 28.1–2.2 36.47N 141.84E 54–20 4.0,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ38.00000°,λ-43.00000°. NP2:ϕ_s263.00000°,δ66.00000°,λ-119.00000°. $M_0$2.26000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.4km az=177.8.
IDC Error ellipse: s-maj=18.0km s-min=11.1km az=85.0.
JMA III 18 01 46 48.3–.20 38.23N 142.13E 16–2 4.3
¶602672447
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 01 48 34.8–.20 39.10N 142.38E 23–2 3.5
¶602672439
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 01 50 21.3–.86 36.72N–.03 140.51E–.04 11–5 4.3b 68 0-83
NIED III 18 01 50 00 36.70N 140.60E 5 4.1W **¶16338677**
IDC III 18 01 50 19.9–.64 36.70N 140.54E 0 4.2,4.1
ISCJB III 18 01 50 20.8–.50 36.70N–.03 140.63E–.04 19–3 4.2b,4.1
JMA III 18 01 50 21.6 36.73N 140.59E 5–3 4.2,4.1
NEIC III 18 01 50 23.5–2.0 36.74N 140.43E 24–14 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ30.00000°,λ-66.00000°. NP2:ϕ_s167.00000°,δ63.00000°,λ-103.00000°. $M_0$1.77000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=14.0km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.5km az=30.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ55.00000°,λ-88.00000°. NP2:ϕ_s2.00000°,δ35.00000°,λ-93.00000°. Principal axes: T Plg10.0000°,Azm274.0000°; N Plg2.0000°,Azm4.0000°; P Plg80.0000°,Azm104.0000°
NEIC Event type fe. Error ellipse: s-maj=8.7km s-min=5.5km az=142.0. Recorded [3 JMA] in Ibaraki.
JMA III 18 01 53 47.8 36.74N 140.59E 8 1.8
¶603049909
ISC III 18 01 54 45.8–1.1 35.2N–.20 141.4E–.20 27 3.9b 9 3-80
IDC III 18 01 54 41.7–1.1 35.19N 141.31E 0 4.1,4.1 **¶17196912**
ISCJB III 18 01 54 43.8–.91 35.1N–.20 141.4E–.20 27 4.4s,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 01 57 13.9–.66 36.25N–.07 141.92E–.08 23 3.7b 26 1-147
IDC III 18 01 57 09.9–.72 36.09N 141.93E 0 4.0,3.8 **¶16461932**
JMA III 18 01 57 12.9–.20 36.25N 141.91E 81–4 3.4,3.8
ISCJB III 18 01 57 12.4–.59 36.27N–.07 141.97E–.08 23 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 02 10 30.1–1.7 37.17N–.06 141.4E–.10 35 3.5b 9 0-90
IDC III 18 02 10 24.4–1.2 36.98N 143.79E 0 3.7,3.6L **¶17196914**
ISCJB III 18 02 10 28.5–1.4 37.16N–.06 141.5E–.10 35 3.6b,3.6L
JMA III 18 02 10 29.1–.20 37.25N 141.42E 33–2 3.0,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=30.0km s-min=28.6km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=8.6km az=6.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 02 20 57.5–.20 37.73N 141.90E 16–2 3.6
¶602672383
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 02 43 43.2–1.5 39.06N–.08 142.4E–.10 27 3.7b 14 1-63
NIED III 18 02 43 00 39.10N 142.40E 35 3.7W **¶602671857**
ISCJB III 18 02 43 42.1–1.1 39.04N–.07 142.47E–.09 27 3.5b
JMA III 18 02 43 43.7–.10 39.06N 142.39E 32–1 4.0
IDC III 18 02 43 52.2–3.3 38.49N 142.22E 144–30 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ12.00000°,λ-112.00000°. NP2:ϕ_s198.00000°,δ79.00000°,λ-86.00000°. $M_0$3.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=9.4km az=41.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.7km s-min=19.1km az=84.0.
JMA III 18 02 47 22.6–.20 36.14N 141.21E 42–2 2.2
¶602671850
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 02 47 46.4–.49 37.21N–.03 141.91E–.03 28–2 5.2b,4.4s 1082 1-155
NIED III 18 02 47 00 37.20N 141.90E 35 5.0W,4.4s **¶602443696**
BJI III 18 02 47 45.0 37.13N 141.70E 26 5.2b,4.9b
GCMT III 18 02 47 47.6–.30 37.38N 141.90E 33–0 5.0W,4.9b
ISCJB III 18 02 47 47.3–.43 37.19N–.02 141.81E–.02 45–3 5.1b,4.3s
MOS III 18 02 47 47.3–.80 37.53N 141.81E 31 5.3b,4.5s
JMA III 18 02 47 47.3–.20 37.19N 141.87E 44–3 5.2,4.5s
NEIC III 18 02 47 47.6–.96 37.18N 141.77E 34–6 5.2b,4.5s
IDC III 18 02 47 49.7–1.8 37.21N 141.80E 52–16 4.9,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ25.00000°,λ116.00000°. NP2:ϕ_s181.00000°,δ68.00000°,λ78.00000°. $M_0$3.74000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c60; s84,c125; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.37±.17 $M_{\theta\theta}$-0.14±.12; $M_{\phi\phi}$-3.24±.12; $M_{r\theta}$1.40±.14; $M_{\theta\phi}$-1.07±.08; $M_{\phi r}$-2.15±.13; Best double couple: NP1:ϕ_s173.00000°,δ63.00000°,λ66.00000°. NP2:ϕ_s37.00000°,δ36.00000°,λ129.00000°. Principal axes: T 4.5880,Plg64.0000°,Azm41.0000°; N -0.6030,Plg22.0000°,Azm185.0000°; P -3.9900,Plg14.0000°,Azm280.0000° $M_0$4.28900×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=164.7.
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=96.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=142.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.7km s-min=10.2km az=112.0.
ISC III 18 02 55 16.2–.55 39.53N–.06 142.61E–.06 29 4.2b 59 1-88
NIED III 18 02 55 00 39.50N 142.70E 17 4.1W **¶16427657**
JMA III 18 02 55 13.3–.20 39.47N 142.73E 24–2 4.0
ISCJB III 18 02 55 14.3–.38 39.48N–.05 142.71E–.05 29 4.2b
NEIC III 18 02 55 16.8–1.1 39.43N 142.64E 36–10 4.4b
IDC III 18 02 55 20.9–2.5 39.32N 142.57E 78–22 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ14.00000°,λ-103.00000°. NP2:ϕ_s154.00000°,δ76.00000°,λ-87.00000°. $M_0$1.47000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=155.3.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.4km az=139.0.
IDC Error ellipse: s-maj=16.2km s-min=14.3km az=138.0.
JMA III 18 03 02 11.4–.20 35.72N 140.90E 9–1 1.7
¶603049912
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 03 02 23.2–.99 35.99N–.06 141.7E–.10 35 3.5b 13 1-147
NIED III 18 03 02 00 36.00N 141.80E 14 3.9W **¶602671833**
JMA III 18 03 02 22.1–.20 35.98N 141.78E 35 3.7
ISCJB III 18 03 02 22.2–.94 35.95N–.06 141.82E–.09 35 3.6b
IDC III 18 03 02 25.1–3.8 36.27N 140.69E 56–36 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ73.00000°,λ168.00000°. NP2:ϕ_s133.00000°,δ78.00000°,λ18.00000°. $M_0$7.18000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=8.0km az=175.1.
IDC Error ellipse: s-maj=34.9km s-min=19.9km az=78.0.
JMA III 18 03 15 29.6–.20 37.24N 141.80E 48–5 2.1
¶603049913
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 03 31 03.5–.10 36.40N 141.26E 37–2 3.5
¶602671775
JMA Event type fe.
JMA III 18 03 51 31.3–.20 38.90N 142.35E 21–2 3.7
¶602671251
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 04 02 00.2–3.6 39.01N–.07 142.71E–.07 9–22 3.7b 22 1-62
IDC III 18 04 01 58.4–1.1 38.91N 142.94E 0 3.7,3.5 **¶17196929**
ISCJB III 18 04 01 59.3–1.6 38.95N–.07 142.80E–.07 15–10 3.5b,3.5
JMA III 18 04 02 01.6–.20 38.95N 142.65E 18–2 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.3km s-min=23.3km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.4km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 04 22 01.3–.10 37.43N 141.47E 43–2 3.7
¶602671132
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 18 04 37 57.1–.20 37.74N 141.81E 36–3 3.7
¶602671080
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 04 44 27.6–2.2 36.41N–.05 141.34E–.07 17–13 3.5b 21 1-147
IDC III 18 04 44 24.4–1.2 36.17N 141.59E 0 3.8,3.5 **¶600554992**
ISCJB III 18 04 44 28.6–1.1 36.43N–.04 141.30E–.08 27–6 3.5b,3.5
JMA III 18 04 44 29.0–.10 36.45N 141.28E 45–2 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=30.4km az=170.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.9km az=179.4.
JMA Event type fe.
JMA III 18 04 49 35.7–.10 37.25N 141.10E 26–1 2.5
¶603049914
JMA III 18 04 56 39.1–.20 39.18N 142.36E 28–2 3.9
NIED III 18 04 56 00 39.20N 142.40E 53 4.5W **¶600555022**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ27.00000°,λ-9.00000°. NP2:ϕ_s115.00000°,δ86.00000°,λ-117.00000°. $M_0$5.47000×10^{15}
JMA III 18 05 12 19.5–.10 35.95N 141.08E 18–2 3.1
NIED III 18 05 12 00 35.30N 141.20E 32 3.9W **¶603049915**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ63.00000°,λ173.00000°. NP2:ϕ_s56.00000°,δ84.00000°,λ27.00000°. $M_0$8.66000×10^{14}
JMA III 18 05 12 48.0–.10 35.32N 141.16E 28–2 3.6
¶16442631
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 05 13 14.3–.20 39.18N 142.46E 31–1 4.3
NIED III 18 05 13 00 39.20N 142.50E 47 4.1W **¶600555065**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ32.00000°,λ-39.00000°. NP2:ϕ_s262.00000°,δ71.00000°,λ-116.00000°. $M_0$1.50000×10^{15}
JMA III 18 05 15 51.4–.10 35.75N 140.72E 17–1 3.7
¶602672292
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 05 18 39.8–.34 35.01N–.04 141.23E–.04 35 4.7b,4.1s 454 0-152
NIED III 18 05 18 00 35.00N 141.30E 26 4.7W,4.1s **¶16440426**
IDC III 18 05 18 34.5–.48 34.97N 141.17E 0 4.6,4.5
JMA III 18 05 18 36.9–.40 34.96N 141.35E 44–4 4.6,4.5
ISCJB III 18 05 18 38.6–.14 34.96N–.03 141.14E–.02 35 4.6b,4.1s
MOS III 18 05 18 38.2–1.0 34.93N 141.13E 33 4.8b,4.1s
NEIC III 18 05 18 41.6–.51 34.95N 141.10E 48–4 4.7b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ59.00000°,λ177.00000°. NP2:ϕ_s331.00000°,δ88.00000°,λ31.00000°. $M_0$1.19000×10^{16}
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=167.4.
MOS Error ellipse: s-maj=8.4km s-min=5.8km az=109.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=3.3km az=138.0.
ISC III 18 05 33 49.3–1.3 36.71N–.09 141.93E–.09 35 4.0b 26 1-64
NIED III 18 05 33 00 36.70N 141.80E 29 3.7W **¶602672237**
JMA III 18 05 33 48.5–.20 36.70N 141.85E 46–5 3.8
ISCJB III 18 05 33 48.8–.74 36.70N–.07 141.88E–.06 35 4.1b
IDC III 18 05 33 50.5–.95 37.46N 141.45E 0 3.9,3.8b
NEIC III 18 05 33 53.1–3.5 37.44N 141.34E 16–22 4.3b,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ20.00000°,λ69.00000°. NP2:ϕ_s16.00000°,δ72.00000°,λ97.00000°. $M_0$4.40000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.3km az=171.3.
IDC Error ellipse: s-maj=27.3km s-min=19.5km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.4km az=122.0.
JMA III 18 05 34 01.8–.30 38.18N 142.63E 16 4.2
¶16442633
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 18 05 57 55.1–1.8 37.50N–.06 141.27E–.08 27–13 3.8b 37 1-147
NIED III 18 05 57 00 37.50N 141.20E 29 3.8W **¶16442634**
JMA III 18 05 57 55.8 37.48N 141.24E 29–1 4.1
NEIC III 18 05 57 59.2–1.5 37.47N 141.09E 64–14 4.4b
IDC III 18 05 57 59.3–4.2 37.44N 141.02E 62–38 3.8L,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ38.00000°,λ-162.00000°. NP2:ϕ_s177.00000°,δ79.00000°,λ-53.00000°. $M_0$6.09000×10^{14}
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=12.8km az=198.0.
IDC Error ellipse: s-maj=31.8km s-min=23.6km az=64.0.
ISC III 18 06 07 33.1–1.6 35.73N–.05 141.07E–.10 31–8 3.8b 18 0-56
IDC III 18 06 07 26.6–3.6 35.69N 141.55E 0 3.8,3.7 **¶600555128**
JMA III 18 06 07 33.9–.10 35.72N 140.96E 35–1 3.4,3.7
ISCJB III 18 06 07 33.2–1.2 35.73N–.05 141.1E–.10 36–8 3.6b,2.5s
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 18 06 09 57.5–1.2 35.67N–.06 140.99E–.09 33–5 3.6b 14 0-56
IDC III 18 06 09 52.6–1.4 35.63N 141.07E 0 3.6,3.4b **¶17196945**
ISCJB III 18 06 09 56.4–1.1 35.71N–.06 141.1E–.10 39–8 3.5b,3.4b
JMA III 18 06 09 57.2–.10 35.72N 140.98E 36–1 3.0,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=30.8km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=9.5km az=160.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 06 23 03.7–.76 36.94N–.06 141.42E–.07 19–2 3.7b 30 1-147
NIED III 18 06 23 00 37.00N 141.40E 14 3.8W **¶17196948**
ISCJB III 18 06 23 02.1–1.3 36.93N–.05 141.53E–.07 21–8 3.6b
IDC III 18 06 23 04.8–.78 36.97N 141.43E 27–5 3.7,3.6
JMA III 18 06 23 04.4–.20 36.96N 141.37E 40–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ25.00000°,λ-106.00000°. NP2:ϕ_s57.00000°,δ66.00000°,λ-83.00000°. $M_0$5.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=8.2km az=157.2.
IDC Error ellipse: s-maj=21.8km s-min=17.2km az=75.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 06 40 47.8–.20 38.17N 142.14E 22–3 3.9
¶602670918
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 18 06 52 57.0 36.76N 140.60E 6–1 3.1
¶603049916
ISC III 18 06 58 18.7–1.2 35.60N–.04 141.02E–.08 23–7 3.4b 19 0-56
IDC III 18 06 58 15.4–1.4 35.39N 140.97E 0 3.6,3.5 **¶17196953**
ISCJB III 18 06 58 18.0–1.1 35.62N–.04 141.1E–.10 28–6 3.4b,3.5
JMA III 18 06 58 18.8–.10 35.64N 140.98E 27–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.9km s-min=27.2km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=6.3km az=169.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 06 58 48.2–.30 37.50N 141.89E 14–3 3.6
¶602670912
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 07 03 10.1–1.6 38.49N–.09 141.5E–.10 66 3.4b 9 1-59
IDC III 18 07 03 06.6–1.4 37.98N 140.85E 0 3.5,3.3 **¶17196954**
JMA III 18 07 03 07.8–.10 38.39N 141.66E 25–1 3.9,3.3
ISCJB III 18 07 03 08.9–1.4 38.45N–.08 141.5E–.10 66 3.2b,3.3
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 18 07 10 26.4–1.3 35.97N–.09 141.7E–.10 26 3.7b 13 1-56
JMA III 18 07 10 24.2–.10 36.60N 141.04E 45–1 3.4 **¶600555178**
IDC III 18 07 10 26.4–2.2 35.96N 141.74E 26–6 3.8,3.7
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=50.8km s-min=21.6km az=78.0.

ISC III 18 07 25 36.3–1.9 38.5N–.10 142.8E–.10 10 3.9b 10 1-59
JMA III 18 07 25 37.9–.30 38.57N 142.77E 15–4 3.6 **¶602670870**
IDC III 18 07 25 37.5–1.4 38.22N 141.11E 0 4.0,3.7
ISCJB III 18 07 25 37.4–2.2 38.60N–.09 142.8E–.10 10 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 07 28 23.4–.63 36.76N–.05 141.06E–.06 27–4 4.2b,3.7s 46 0-149
NIED III 18 07 28 00 36.80N 141.10E 11 3.8W,3.7s **¶16442636**
ISCJB III 18 07 28 22.0–.88 36.73N–.04 141.18E–.06 31–5 4.3b,3.8s
NEIC III 18 07 28 23.4–.37 36.78N 141.11E 26–2 4.9b,3.8s
IDC III 18 07 28 23.8–.71 36.78N 141.07E 27–5 3.8,3.8s
JMA III 18 07 28 23.0–.10 36.80N 141.14E 35–1 4.0,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ45.00000°,λ-56.00000°. NP2:ϕ_s12.00000°,δ54.00000°,λ-119.00000°. $M_0$5.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.4km az=175.1.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.3km az=131.0.
IDC Error ellipse: s-maj=19.7km s-min=17.8km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 07 30 46.7–.45 38.82N–.04 142.00E–.04 42–3 4.8b,3.9s 292 1-147
NIED III 18 07 30 00 38.80N 141.90E 50 4.6W,3.9s **¶602670862**
MOS III 18 07 30 46.7–1.2 38.90N 141.96E 53 5.1b,3.9s
JMA III 18 07 30 47.9–.10 38.82N 141.94E 49–2 4.5,3.9s
ISCJB III 18 07 30 47.6–.47 38.84N–.03 141.87E–.04 61–3 4.7b,3.9s
IDC III 18 07 30 48.1–.58 38.80N 141.83E 52–5 4.5,4.3
NEIC III 18 07 30 49.8–.52 38.81N 141.83E 66–4 4.7b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ22.00000°,λ68.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ99.00000°. $M_0$1.02000×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=105.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=39.9.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=135.0. Recorded [3 JMA] in Iwate.
JMA III 18 07 41 54.1–.10 36.75N 141.83E 53 3.7
NIED III 18 07 41 00 36.80N 141.80E 14 4.5W **¶603049917**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ42.00000°,λ5.00000°. NP2:ϕ_s180.00000°,δ87.00000°,λ132.00000°. $M_0$5.86000×10^{15}
ISC III 18 08 01 34.4–.34 35.80N–.03 140.96E–.03 30–2 5.3b,5.0s 778 0-158
NIED III 18 08 01 00 35.90N 141.30E 38 5.3W,5.0s **¶602670500**
BJI III 18 08 01 29.0 35.70N 141.20E 22 5.2b,5.2b
ISCJB III 18 08 01 32.8–.82 35.72N–.02 140.91E–.02 28–5 5.2b,5.0s
GCMT III 18 08 01 33.8–.20 35.74N 141.17E 36–0 5.3W,5.0s
NEIC III 18 08 01 33.8–.28 35.73N 140.88E 24–1 5.2b,5.0s
JMA III 18 08 01 34.4–.10 35.82N 141.11E 35–1 5.4,5.0s
MOS III 18 08 01 34.7–.86 36.09N 140.85E 30 5.6b,5.1s
IDC III 18 08 01 36.3–1.1 35.75N 141.04E 46–9 5.2,5.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ13.00000°,λ113.00000°. NP2:ϕ_s19.00000°,δ78.00000°,λ85.00000°. $M_0$1.15000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=148.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c149; s111,c187; Duration: 1$\pm$1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00$\pm$.02 $M_{\theta\theta}$-0.18$\pm$.02; $M_{\phi\phi}$-0.82$\pm$.02; $M_{r\theta}$0.22$\pm$.02; $M_{\theta\phi}$-0.26$\pm$.01; $M_{\phi r}$0.83$\pm$.02; Best double couple: NP1:ϕ_s16.00000°,δ66.00000°,λ88.00000°. NP2:ϕ_s202.00000°,δ24.00000°,λ95.00000°. Principal axes: T 1.3320,Plg69.0000°,Azm282.0000°; N -0.0910,Plg2.0000°,Azm17.0000° ; P -1.2420,Plg21.0000°,Azm108.0000° $M_0$1.28700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=142.0. Recorded [4 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s228.00000°,δ62.00000°,λ135.00000°. NP2: ϕ_s344.00000°,δ51.00000°,λ37.00000°. Principal axes: T Plg51.0000°,Azm190.0000° ; N Plg38.0000°,Azm23.0000°; P Plg6.0000°,Azm288.0000°
MOS Error ellipse: s-maj=6.3km s-min=3.7km az=105.7.
IDC Error ellipse: s-maj=11.3km s-min=6.5km az=94.0.
JMA III 18 08 01 38.1–.20 38.26N 141.90E 46–4 3.4
¶602443708
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 08 06 14.7–.80 35.78N–.05 141.11E–.08 31 3.7b 18 0-79
IDC III 18 08 06 10.1–.85 35.75N 141.21E 0 3.9,3.7 **¶17196961**
ISCJB III 18 08 06 12.8–.68 35.77N–.05 141.30E–.07 31 3.7b,3.7
JMA III 18 08 06 14.3–.10 35.80N 141.12E 34–1 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.4km s-min=17.6km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.7km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 08 15 38.5–1.1 38.2N–.20 142.3E–.20 14 3.5b 5 4-63
IDC III 18 08 15 37.7–.98 37.80N 143.50E 0 3.7,3.5 **¶17196963**
ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=21.7km az=115.0.
ISC III 18 08 27 11.3–1.0 35.83N–.05 140.88E–.06 12–6 3.7b 17 0-148
NIED III 18 08 27 00 35.90N 141.00E 11 4.1W **¶602443704**
ISCJB III 18 08 27 09.8–1.2 35.89N–.04 140.97E–.06 8–7 3.6b
IDC III 18 08 27 10.4–4.8 35.78N 141.31E 0 4.1,3.8
JMA III 18 08 27 11.2–.10 35.84N 140.89E 11–1 4.4,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ17.00000°,λ-35.00000°. NP2:ϕ_s129.00000°,δ80.00000°,λ-104.00000°. $M_0$1.50000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.3km az=163.0.
IDC Error ellipse: s-maj=156.1km s-min=56.8km az=80.0.
JMA Event type fe.
ISC III 18 08 44 35.9–1.1 36.37N–.08 141.73E–.09 19 3.6b 15 1-147
NIED III 18 08 44 00 36.40N 141.70E 11 3.7W **¶17196973**
IDC III 18 08 44 32.7–1.3 36.37N 141.88E 0 3.8,3.7
JMA III 18 08 44 36.7–.20 36.44N 141.69E 48 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ52.00000°,λ-36.00000°. NP2:ϕ_s115.00000°,δ62.00000°,λ-135.00000°. $M_0$3.41000×10^{14}
IDC Error ellipse: s-maj=34.5km s-min=23.1km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 08 47 04.3–1.9 36.91N–.08 141.3E–.10 35 3.4b 12 0-57
IDC III 18 08 46 54.1–2.6 37.69N 142.35E 0 3.7L,3.6 **¶17196975**
ISCJB III 18 08 47 03.3–1.5 36.88N–.08 141.3E–.10 35 3.5b,3.6
JMA III 18 08 47 05.0–.10 36.91N 141.15E 32–1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=66.4km s-min=30.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=10.3km az=149.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 08 50 26.5–1.1 37.20N–.07 141.42E–.08 33 3.5b 16 1-57
IDC III 18 08 50 21.6–1.4 37.24N 141.46E 0 3.7,3.7b **¶17196977**
ISCJB III 18 08 50 24.4–.94 37.22N–.08 141.65E–.08 33 3.6b,3.7b
JMA III 18 08 50 27.6–.20 37.28N 141.39E 48–2 3.4,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=31.3km s-min=27.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=8.0km az=149.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 09 10 40.2–1.4 36.23N–.05 141.01E–.07 26–11 15 1-56
IDC III 18 09 10 36.4–1.5 36.16N 141.19E 0 3.7,3.4b **¶602670331**
ISCJB III 18 09 10 39.6–.99 36.21N–.05 141.05E–.08 33–6 3.5b,3.4b
JMA III 18 09 10 40.2 36.22N 141.00E 37–1 3.2,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=39.3km s-min=30.8km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.4km az=159.5.
JMA Event type fe.
ISC III 18 09 12 06.2–1.7 38.09N–.05 142.02E–.08 20–6 3.6b 24 1-62
IDC III 18 09 12 00.9–2.2 38.35N 142.64E 0 3.7,3.6 **¶17196980**
JMA III 18 09 12 09.8–.20 38.19N 141.88E 45–4 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=64.1km s-min=21.6km az=66.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 09 20 39.9–1.7 37.91N–.05 141.97E–.10 44–16 3.6b 29 1-89
ISCJB III 18 09 20 40.1–.91 37.95N–.04 141.89E–.10 60–8 3.6b,3.6s ¶17196981
JMA III 18 09 20 41.8–.10 37.98N 141.78E 53–3 4.1,3.6s
IDC III 18 09 20 41.7–2.9 37.88N 141.88E 61–28 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=6.7km az=9.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=19.8km az=86.0.
ISC III 18 09 24 10.8–1.5 35.26N–.07 141.3E–.20 35 3.6b 12 1-59
IDC III 18 09 24 04.9–2.3 35.31N 141.68E 0 3.6,3.6b ¶17196983
ISCJB III 18 09 24 08.9–1.4 35.26N–.07 141.3E–.20 35 3.5b,3.6b
JMA III 18 09 24 09.7–.20 35.23N 141.19E 23 2.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=62.0km s-min=22.1km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=8.6km az=161.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 09 35 00.1–.91 35.86N–.05 140.85E–.08 42–8 3.5b 18 0-65
ISCJB III 18 09 34 58.9–.63 35.84N–.05 140.85E–.09 52–5 3.5b ¶17196984
JMA III 18 09 35 00.1–.10 35.89N 140.81E 39–1 3.4
IDC III 18 09 35 02.2–2.4 35.76N 140.66E 66–23 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=7.4km az=162.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.2km s-min=9.0km az=71.0.
JMA III 18 09 40 36.0–.10 36.22N 141.07E 36–1 3.5
¶602670289
JMA Event type fe.
ISC III 18 09 42 40.5–1.2 36.19N–.05 141.6E–.10 26 3.3b 16 1-56
IDC III 18 09 42 36.9–1.4 36.08N 141.68E 0 3.6,3.5L ¶17196985
ISCJB III 18 09 42 39.7–.97 36.20N–.05 141.69E–.09 26 3.4s,3.3b
JMA III 18 09 42 41.4–.20 36.21N 141.51E 55–3 3.4,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=33.0km s-min=31.1km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.3km az=178.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 18 10 11 52.5–.20 38.48N 142.11E 40–4 3.7
¶602670140
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 18 10 18 33.9–2.5 36.55N 141.87E 0 3.7,3.5
¶17196994
IDC Error ellipse: s-maj=70.0km s-min=25.4km az=60.0.
JMA III 18 10 30 06.4–.10 37.24N 141.27E 26–2 2.0
¶602669728
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 10 30 38.8–.10 36.46N 141.14E 42–2 2.4
¶603049918
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 10 33 34.4–.40 38.21N 142.69E 46 3.7
¶602669708
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 18 10 33 43.1–.10 39.64N 142.16E 46–2 2.5
¶603049297
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 10 33 55.0–1.3 39.55N–.06 142.39E–.09 29 3.6b 20 1-63
IDC III 18 10 33 44.5–1.1 40.21N 144.00E 0 3.7,3.6 ¶17196997
ISCJB III 18 10 33 53.3–.96 39.57N–.06 142.46E–.08 29 3.6b,3.6
JMA III 18 10 33 59.0–.10 39.64N 142.16E 45–1 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=22.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=7.6km az=144.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 10 37 47.8–1.5 35.62N–.07 141.7E–.10 25 3.5b 13 1-59
IDC III 18 10 37 43.3–2.4 35.64N 141.94E 0 3.5,3.5 ¶600555550
JMA III 18 10 37 45.7–.20 35.74N 141.83E 16–2 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=62.1km s-min=22.6km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 10 42 11.9–1.1 35.97N–.06 141.12E–.09 31 3.6b 14 0-65
IDC III 18 10 42 07.5–1.1 35.89N 141.30E 0 3.5,3.4 ¶17197000
JMA III 18 10 42 10.5–.20 35.96N 141.22E 26–2 3.8,3.4
ISCJB III 18 10 42 10.2–.87 35.95N–.05 141.23E–.09 31 3.5b,3.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 18 10 43 01.6–1.1 35.7N–.10 140.8E–.20 25–7 3.6b 10 0-59
IDC III 18 10 42 58.0–1.2 35.59N 140.78E 0 3.8,3.6 ¶600555559
NIED III 18 10 43 00 35.60N 140.90E 32 3.8W,3.6
JMA III 18 10 43 01.5–.20 35.64N 140.91E 26–1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=23.9km az=81.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ51.00000°,λ39.00000°. NP2:ϕ_s286.00000°,δ61.00000°,λ134.00000°. $M_0$6.25000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 11 01 57.3–.10 38.88N 142.52E 22–2 3.5
¶602669599
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 11 05 40.2–1.1 36.34N–.06 141.98E–.09 19 3.5b 16 1-64
NIED III 18 11 05 00 36.50N 141.90E 14 3.6W ¶17197005
ISCJB III 18 11 05 37.8–.93 36.33N–.06 142.11E–.09 19 3.6b
IDC III 18 11 05 37.6–1.4 36.36N 142.07E 0 3.7,3.6
JMA III 18 11 05 40.0–.30 36.46N 141.87E 16–4 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ67.00000°,λ3.00000°. NP2:ϕ_s248.00000°,δ87.00000°,λ157.00000°. $M_0$2.60000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.6km az=25.8.
IDC Error ellipse: s-maj=31.8km s-min=24.5km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 11 15 53.0–.30 38.24N 142.17E 44 3.6
¶602669571
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 18 12 04 46.1–1.8 39.05N–.06 142.38E–.09 19–5 3.5b 14 1-59
IDC III 18 12 04 43.1–1.4 38.93N 142.39E 0 3.7,3.4 ¶17197009
ISCJB III 18 12 04 45.8–2.4 39.04N–.06 142.5E–.10 26–14 3.4b,3.4
JMA III 18 12 04 47.8 39.06N 142.35E 31–1 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=33.2km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=9.8km az=8.2.
JMA Event type fe.
ISC III 18 12 17 01.5–.78 38.97N–.03 142.41E–.04 32–5 4.8b,4.2s 386 1-155
BJI III 18 12 16 57.1 38.80N 142.65E 33 5.0b,5.0b ¶16336104
MOS III 18 12 17 00.9–1.1 39.04N 142.35E 38 5.0b,4.0s
JMA III 18 12 17 01.2–.10 39.00N 142.35E 32–1 4.7,4.0s
ISCJB III 18 12 17 01.2–.31 38.98N–.02 142.37E–.03 42–2 4.8b,4.2s
IDC III 18 12 17 03.4–1.6 39.00N 142.34E 48–15 4.6,4.4
NEIC III 18 12 17 04.2–.50 38.96N 142.27E 54–4 4.9b,4.4
ISC Event type se.
MOS Error ellipse: s-maj=6.7km s-min=4.9km az=93.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=31.3.
IDC Error ellipse: s-maj=12.2km s-min=10.4km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=131.0. Recorded [3 JMA] in Iwate.
ISC III 18 12 21 01.7–1.2 38.11N–.04 142.14E–.04 2–6 4.7b,3.8s 234 1-146
NIED III 18 12 21 00 38.10N 142.10E 5 4.6W,3.8s ¶602670765
JMA III 18 12 21 02.1–.20 38.10N 142.12E 20–4 4.7,3.8s
MOS III 18 12 21 04.9–1.3 38.11N 142.19E 33 4.8b,3.8s
ISCJB III 18 12 21 05.0–.22 38.10N–.03 142.07E–.03 33 4.6b,3.8s
IDC III 18 12 21 06.8–2.8 38.09N 141.98E 39–24 4.4,4.3
NEIC III 18 12 21 07.9–.71 38.05N 142.18E 45–6 4.8b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ43.00000°,λ-123.00000°. NP2:ϕ_s169.00000°,δ55.00000°,λ-63.00000°. $M_0$7.65000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.3km az=99.9.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.2km az=142.8.
IDC Error ellipse: s-maj=14.6km s-min=12.2km az=104.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=108.0.
ISC III 18 12 27 09.6–1.4 35.97N–.06 141.76E–.10 23 3.6b 17 1-60
NIED III 18 12 27 00 36.00N 141.80E 8 3.8W ¶600555722
IDC III 18 12 27 05.4–2.2 35.98N 141.99E 0 3.7,3.6
ISCJB III 18 12 27 07.4–.98 35.93N–.06 141.89E–.08 23 3.6b,3.6
JMA III 18 12 27 07.5–.20 35.99N 141.82E 11–3 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ37.00000°,λ-44.00000°. NP2:ϕ_s130.00000°,δ65.00000°,λ-118.00000°. $M_0$6.23000×10^{14}
IDC Error ellipse: s-maj=59.4km s-min=21.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.7km az=153.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 12 31 54.4–.58 36.27N–.05 141.84E–.06 19 4.1b 47 1-147
NIED III 18 12 31 00 36.30N 141.90E 20 4.1W ¶16461935
IDC III 18 12 31 51.4–.68 36.28N 141.90E 0 4.1,4.0
ISCJB III 18 12 31 52.6–.45 36.26N–.04 141.97E–.06 19 4.0b,4.0
JMA III 18 12 31 54.7–.20 36.31N 141.86E 59–5 3.7,4.0
NEIC III 18 12 31 56.9–1.4 36.28N 141.91E 38–12 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ24.00000°,λ52.00000°. NP2:ϕ_s33.00000°,δ72.00000°,λ105.00000°. $M_0$1.66000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=15.5km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=29.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.3km az=83.0.
ISC III 18 12 33 53.9–1.5 36.47N–.05 141.16E–.07 28–10 3.8b 26 0-64
NIED III 18 12 33 00 36.40N 141.10E 41 3.8W ¶17197015
JMA III 18 12 33 53.9–.10 36.44N 141.11E 43–2 3.8
ISCJB III 18 12 33 53.2–1.0 36.44N–.04 141.20E–.08 40–11 3.8b
IDC III 18 12 33 56.2–3.2 36.41N 141.15E 51–31 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ10.00000°,λ-26.00000°. NP2:ϕ_s314.00000°,δ85.00000°,λ-99.00000°. $M_0$5.36000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.9km az=7.6.
IDC Error ellipse: s-maj=25.2km s-min=11.9km az=67.0.
ISC III 18 12 36 28.4–.89 36.72N–.03 140.53E–.05 12–6 3.9b 39 0-91
NIED III 18 12 36 00 36.80N 140.60E 5 3.8W ¶602670746
IDC III 18 12 36 26.7–.72 36.71N 140.57E 0 4.0,3.9
ISCJB III 18 12 36 27.2–.70 36.71N–.03 140.72E–.05 14–4 3.9b,3.9
JMA III 18 12 36 28.3 36.75N 140.59E 5–1 3.7,3.9
NEIC III 18 12 36 33.4–1.2 36.74N 140.48E 49–12 4.2b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ35.00000°,λ-80.00000°. NP2:ϕ_s182.00000°,δ55.00000°,λ-97.00000°. $M_0$6.57000×10^{14}
IDC Error ellipse: s-maj=17.0km s-min=12.4km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=5.0km az=26.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.6km az=67.0.
ISC III 18 12 53 15.8–1.2 38.80N–.07 142.5E–.10 37–4 3.8b 25 1-88
JMA III 18 12 53 14.8–.20 38.83N 142.40E 30–2 3.9 ¶17197018
ISCJB III 18 12 53 14.5–1.3 38.77N–.05 142.5E–.10 44–12 3.7b
IDC III 18 12 53 16.8–3.5 38.74N 142.39E 49–34 3.7,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=8.7km az=6.8.
IDC Error ellipse: s-maj=26.1km s-min=17.4km az=102.0.
ISC III 18 12 59 26.3–1.8 38.32N–.04 142.20E–.06 12–10 4.2b,3.9s 68 1-89
NIED III 18 12 59 00 38.40N 142.20E 38 4.2W,3.9s ¶16461917
JMA III 18 12 59 28.6–.20 38.38N 142.21E 36–3 4.3,3.9s
IDC III 18 12 59 29.9–3.6 38.33N 142.18E 36–29 4.2,4.2L
NEIC III 18 12 59 30.8–.80 38.35N 142.27E 46–7 4.5b,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ55.00000°,λ-169.00000°. NP2:ϕ_s248.00000°,δ81.00000°,λ-35.00000°. $M_0$2.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=13.0km az=88.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=113.0.
JMA III 18 13 13 47.9–.20 37.88N 141.78E 28–2 3.8
¶602670660
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 13 21 10.2–.95 38.80N–.07 142.63E–.08 27 3.7b 23 1-76
NIED III 18 13 21 00 38.80N 142.40E 35 3.7W ¶17197020
IDC III 18 13 21 05.9–.94 38.65N 142.86E 0 3.9,3.7
ISCJB III 18 13 21 09.1–.76 38.84N–.07 142.56E–.07 27 3.7b,3.7
JMA III 18 13 21 10.1–.10 38.84N 142.44E 28–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ19.00000°,λ113.00000°. NP2:ϕ_s222.00000°,δ73.00000°,λ82.00000°. $M_0$4.10000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=20.3km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=7.7km az=163.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 13 29 01.3–.94 39.19N–.06 142.37E–.08 27 3.5b 16 1-76
ISCJB III 18 13 28 59.5–.73 39.13N–.05 142.47E–.06 27 3.5b ¶17197021
JMA III 18 13 29 01.0–.10 39.17N 142.41E 28–1 3.8
IDC III 18 13 29 04.8–4.2 39.14N 142.45E 60–41 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=7.2km az=176.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=36.8km s-min=18.9km az=107.0.
ISC III 18 13 33 10.3–1.6 37.29N–.05 141.3E–.10 46–12 3.9b 28 0-74
NIED III 18 13 33 00 37.30N 141.30E 56 3.6W ¶16479190
IDC III 18 13 33 05.3–1.9 37.52N 141.30E 0 3.8,3.8
ISCJB III 18 13 33 09.6–1.1 37.26N–.04 141.3E–.10 57–6 3.8b,3.8
JMA III 18 13 33 11.0–.10 37.31N 141.26E 50–1 3.5,3.8
NEIC III 18 13 33 11.4–1.1 37.62N 141.20E 35 4.0b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ20.00000°,λ129.00000°. NP2:ϕ_s17.00000°,δ75.00000°,λ77.00000°. $M_0$3.04000×10^{14}
IDC Error ellipse: s-maj=38.0km s-min=27.9km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=18.0km s-min=7.0km az=175.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=10.0km az=143.0.
ISC III 18 13 37 58.5–2.2 39.59N–.08 142.4E–.20 29 3.6b 11 1-73
JMA III 18 13 37 54.5–.20 39.46N 142.63E 22–2 4.0 ¶17197022
IDC III 18 13 37 57.3–2.8 39.78N 141.97E 0 3.8,3.7s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=75.7km s-min=28.3km az=74.0.
JMA III 18 13 41 43.3–.10 38.55N 141.88E 44–2 3.5
¶602670582
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 14 10 29.2–1.7 36.56N–.05 140.97E–.05 8–10 3.9b 39 0-147
NIED III 18 14 10 00 36.60N 141.10E 5 4.1W ¶17197024
ISCJB III 18 14 10 29.0–1.2 36.58N–.04 141.15E–.07 21–7 3.8b,3.6s
JMA III 18 14 10 29.1–.10 36.62N 141.14E 33–1 4.2,3.6s
IDC III 18 14 10 35.0–2.5 36.46N 140.87E 55–22 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ51.00000°,λ-139.00000°. NP2:ϕ_s222.00000°,δ59.00000°,λ-47.00000°. $M_0$1.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.7km az=10.4.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=13.4km az=83.0.
ISC III 18 14 12 31.0–.79 39.03N–.08 142.25E–.09 51 3.9b 23 1-88
NIED III 18 14 12 00 39.00N 142.40E 35 3.9W ¶17197025
JMA III 18 14 12 28.4–.10 39.01N 142.37E 31–1 3.9
ISCJB III 18 14 12 29.5–.61 39.01N–.06 142.32E–.07 51 3.8b

IDC III 18 14 12 32.9–3.1 38.96N 142.31E 71–29 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ33.00000°,λ-55.00000°. NP2:ϕ_s198.00000°,δ64.00000°,λ-110.00000°. $M_0$8.81000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.6km az=152.7.
IDC Error ellipse: s-maj=23.4km s-min=15.8km az=103.0.
JMA III 18 14 31 38.8–.30 38.49N 142.28E 15–4 4.3
¶600555863
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 18 14 34 47.5–1.5 37.09N–.05 141.48E–.10 49–13 3.8b 41 1-147
NIED III 18 14 34 00 37.10N 141.30E 47 4.0W **¶17197030**
ISCJB III 18 14 34 46.2–.88 37.05N–.04 141.51E–.08 54–7 3.8b
JMA III 18 14 34 48.2–.10 37.11N 141.33E 57–1 4.0
IDC III 18 14 34 49.4–1.9 36.99N 141.44E 70–18 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ31.00000°,λ122.00000°. NP2:ϕ_s164.00000°,δ64.00000°,λ72.00000°. $M_0$1.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.5km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=11.9km az=77.0.
ISC III 18 14 41 39.6–1.4 38.64N–.08 142.1E–.10 41 3.5b 13 1-59
NIED III 18 14 41 00 38.70N 142.10E 44 3.8W **¶17197032**
ISCJB III 18 14 41 39.0–1.1 38.65N–.07 142.17E–.09 41 3.4b
JMA III 18 14 41 39.4–.10 38.69N 142.13E 41–2 3.7
IDC III 18 14 41 44.9–4.4 38.58N 142.07E 92–38 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ38.00000°,λ-38.00000°. NP2:ϕ_s255.00000°,δ68.00000°,λ-122.00000°. $M_0$4.81000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.8km az=38.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=50.6km s-min=25.5km az=95.0.
ISC III 18 14 47 52.4–1.0 36.85N–.06 141.86E–.07 19 3.5b 20 1-61
IDC III 18 14 47 49.4–1.1 36.75N 141.99E 0 3.7,3.6 **¶602669520**
ISCJB III 18 14 47 50.2–.76 36.79N–.05 142.00E–.07 19 3.5b,3.6
JMA III 18 14 47 52.2–.30 36.98N 141.88E 17–3 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=19.5km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.2km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 14 55 26.3–1.7 35.87N–.07 141.6E–.10 26 3.5b 9 1-60
IDC III 18 14 55 15.7–2.5 36.10N 143.57E 0 3.6,3.5 **¶17197035**
JMA III 18 14 55 31.9–.20 35.97N 141.24E 28–3 2.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=57.6km s-min=31.2km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 15 27 40.8–1.6 38.33N–.06 142.07E–.09 34–3 3.6b 20 1-68
NIED III 18 15 27 00 38.30N 142.10E 35 3.7W **¶17197043**
ISCJB III 18 15 27 39.1–1.6 38.30N–.06 142.2E–.10 36–13 3.5b
JMA III 18 15 27 39.4–.20 38.32N 142.12E 41 3.6
IDC III 18 15 27 40.0–1.2 39.11N 142.18E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ56.00000°,λ-6.00000°. NP2:ϕ_s224.00000°,δ85.00000°,λ-146.00000°. $M_0$3.56000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=8.7km az=22.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=35.5km s-min=22.4km az=84.0.
ISC III 18 15 48 24.2–.72 36.85N–.05 141.60E–.06 33 3.6b 29 1-90
IDC III 18 15 48 19.2–.86 36.76N 141.84E 0 3.9,3.7 **¶16461938**
ISCJB III 18 15 48 22.4–.56 36.77N–.04 141.76E–.06 33 3.6b,3.7
JMA III 18 15 48 22.1–.30 36.82N 141.73E 40–4 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=19.5km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.2km az=3.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 18 16 04 14.0–1.5 36.58N–.04 141.19E–.05 14–9 4.2b,3.5s 64 1-83
NIED III 18 16 04 00 36.60N 141.20E 41 4.3W,3.5s **¶16461920**
JMA III 18 16 04 17.4–.10 36.58N 141.18E 44–1 4.2,3.5s
IDC III 18 16 04 18.4–1.7 36.56N 141.23E 48–16 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ12.00000°,λ86.00000°. NP2:ϕ_s40.00000°,δ78.00000°,λ91.00000°. $M_0$2.86000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=9.6km az=72.0.
ISC III 18 16 31 08.1–1.3 37.28N–.04 141.39E–.08 48–11 3.7b 36 1-78
IDC III 18 16 31 00.5–.79 37.01N 141.25E 0 4.0,3.8 **¶602669268**
NIED III 18 16 31 00 37.30N 141.30E 47 3.8W,3.8
NEIC III 18 16 31 05.5–.74 37.10N 141.44E 35 4.3b,3.8
ISCJB III 18 16 31 07.2–.78 37.26N–.04 141.40E–.08 59–5 3.7b,3.8
JMA III 18 16 31 08.6–.10 37.30N 141.34E 50–1 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=20.1km az=67.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ17.00000°,λ90.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ90.00000°. $M_0$5.35000×10^{14}
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=11.3km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.9km az=7.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 16 40 55.1–1.9 36.61N–.05 141.87E–.06 7–11 4.3b 75 1-147
IDC III 18 16 40 54.1–.60 36.62N 141.75E 0 4.3,4.2L **¶16461922**
ISCJB III 18 16 40 55.4–1.1 36.58N–.04 141.92E–.05 23–7 4.2b,4.2L
MOS III 18 16 40 56.9–.82 36.61N 141.86E 33 4.7b,4.2L
JMA III 18 16 40 57.9–.20 36.63N 141.81E 46–5 4.3,4.2L
NEIC III 18 16 40 59.7–1.3 36.68N 141.66E 37–11 4.6b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.9km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.6km az=27.2.
MOS Error ellipse: s-maj=12.9km s-min=9.1km az=111.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.1km az=139.0.
JMA III 18 16 45 45.0–.10 35.82N 140.86E 10–1 3.8
NIED III 18 16 45 00 35.80N 140.90E 5 4.3W **¶17197056**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ7.00000°,λ-99.00000°. NP2:ϕ_s129.00000°,δ83.00000°,λ-89.00000°. $M_0$2.80000×10^{15}
ISC III 18 17 20 51.2–1.6 36.21N–.10 141.8E–.10 23 3.5b 12 1-56
IDC III 18 17 20 48.2–2.5 35.91N 141.72E 0 3.5,3.4 **¶17197061**
JMA III 18 17 20 50.6–.40 36.25N 141.89E 24 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=63.1km s-min=24.4km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 18 17 22 25.1–1.5 36.57N–.07 141.8E–.10 19 3.3b 15 1-57
NIED III 18 17 22 00 36.50N 141.90E 11 3.5W **¶17197062**
IDC III 18 17 22 20.2–2.5 36.59N 142.27E 0 3.5,3.5
ISCJB III 18 17 22 22.5–1.2 36.55N–.06 142.01E–.09 19 3.3b,3.5
JMA III 18 17 22 23.6–.40 36.52N 141.95E 47 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ55.00000°,λ145.00000°. NP2:ϕ_s335.00000°,δ62.00000°,λ41.00000°. $M_0$2.11000×10^{14}
IDC Error ellipse: s-maj=59.2km s-min=27.4km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.2km az=150.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 18 17 28 53.4–.42 35.13N–.03 141.65E–.04 27–2 5.0b,5.0s 534 1-148
NIED III 18 17 28 00 35.20N 142.10E 17 5.1W,5.0s **¶16336117**
JMA III 18 17 28 49.4–.40 35.17N 142.06E 54 5.0,5.0s
IDC III 18 17 28 49.9–.49 35.14N 141.59E 0 4.7,4.7s
BJI III 18 17 28 50.6 35.25N 141.41E 15 5.2b,5.2s
MOS III 18 17 28 54.9–.98 35.53N 141.55E 29 5.2b,5.2s
ISCJB III 18 17 28 54.2–.46 35.11N–.02 141.51E–.03 40–3 4.9b,4.9s
GCMT III 18 17 28 55.7–.20 35.14N 141.91E 27–0 5.2W,4.9s
NEIC III 18 17 28 55.7–.59 35.08N 141.49E 42–5 5.1b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ37.00000°,λ67.00000°. NP2:ϕ_s21.00000°,δ56.00000°,λ107.00000°. $M_0$5.59000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=13.3km s-min=10.5km az=104.0.
MOS Error ellipse: s-maj=8.0km s-min=4.2km az=114.8.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.3km az=31.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c96; s85,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.10±.18 $M_{\theta\theta}$-0.40±.11; $M_{\phi\phi}$-4.70±.12; $M_{r\theta}$1.07±.22; $M_{\theta\phi}$-1.85±.08; $M_{\phi r}$4.33±.21; Best double couple: NP1:ϕ_s16.00000°,δ65.00000°,λ86.00000°. NP2:ϕ_s205.00000°,δ25.00000°,λ98.00000°. Principal axes:
T 6.7570,Plg70.0000°,Azm278.0000°; N 0.2520,Plg3.0000°,Azm18.0000°
; P -7.0130,Plg20.0000°,Azm109.0000° $M_0$6.88500×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.5km az=124.0.
IDC III 18 17 44 47.1–2.7 35.16N 141.43E 0 3.5,3.4b
¶17197064
IDC Error ellipse: s-maj=68.0km s-min=25.9km az=63.0.
ISC III 18 17 46 07.0–.63 35.70N–.05 141.65E–.07 25 4.1b 47 1-78
NIED III 18 17 46 00 35.90N 141.70E 14 3.9W **¶16479239**
IDC III 18 17 46 03.8–.65 35.71N 141.73E 0 4.2,4.2s
ISCJB III 18 17 46 05.0–.40 35.67N–.04 141.78E–.05 25 4.1b,4.2s
NEIC III 18 17 46 05.2–3.1 35.68N 141.76E 12–19 4.5b,4.2s
JMA III 18 17 46 06.2–.20 35.86N 141.73E 19–2 4.0,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ49.00000°,λ-35.00000°. NP2:ϕ_s281.00000°,δ64.00000°,λ-133.00000°. $M_0$8.29000×10^{14}
IDC Error ellipse: s-maj=19.7km s-min=13.2km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.2km az=2.5.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.0km az=86.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 17 59 41.4–1.6 35.25N–.04 141.33E–.07 15–9 4.1b 50 1-70
NIED III 18 17 59 00 35.30N 141.30E 41 4.3W **¶16479241**
IDC III 18 17 59 39.9–1.0 35.21N 141.23E 0 4.1L,4.0
ISCJB III 18 17 59 41.4–.88 35.26N–.03 141.34E–.06 28–5 4.1b,4.0
JMA III 18 17 59 42.2–.20 35.29N 141.28E 29–2 3.6,4.0
NEIC III 18 17 59 44.5–2.4 35.22N 141.24E 33–17 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ60.00000°,λ-171.00000°. NP2:ϕ_s243.00000°,δ82.00000°,λ-31.00000°. $M_0$3.25000×10^{15}
IDC Error ellipse: s-maj=26.6km s-min=14.7km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.5km az=177.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.0km az=77.0.
ISC III 18 18 11 10.3–1.4 36.50N–.06 141.6E–.10 19 3.5b 12 1-147
IDC III 18 18 11 09.8–1.4 37.03N 141.79E 0 3.7,3.6 **¶602670019**
JMA III 18 18 11 11.1–.40 36.49N 141.65E 18 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=25.7km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 18 18 17 30.8–1.5 39.9N–.20 142.2E–.30 31 3.5b 6 5-64
IDC III 18 18 17 26.1–1.4 39.86N 142.32E 0 3.6,3.5 **¶17197070**
ISCJB III 18 18 17 28.9–1.2 39.8N–.10 142.3E–.30 31 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 18 32 46.7–.43 39.14N–.03 142.41E–.03 29–2 5.0b,4.6s 469 1-155
NIED III 18 18 32 00 39.20N 142.40E 26 4.9W,4.6s **¶16336120**
IDC III 18 18 32 42.1–.47 39.13N 142.45E 0 4.6,4.6
JMA III 18 18 32 45.4–.10 39.18N 142.44E 23–1 5.0,4.6
ISCJB III 18 18 32 45.3–.67 39.12N–.02 142.40E–.02 28–4 4.9b,4.6s
MOS III 18 18 32 46.6–.91 39.22N 142.37E 37 5.2b,4.8s
BJI III 18 18 32 47.1 39.13N 142.27E 45 5.0b,4.8b
GCMT III 18 18 32 49.3–.30 39.27N 142.34E 25–1 5.1W,4.8b
NEIC III 18 18 32 49.3–.49 39.11N 142.32E 50–4 5.0b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ25.00000°,λ-142.00000°. NP2:ϕ_s183.00000°,δ75.00000°,λ-69.00000°. $M_0$2.92000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=11.2km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=152.7.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=93.8.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s82,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.56±.11 $M_{\theta\theta}$-0.90±.08; $M_{\phi\phi}$1.45±.08; $M_{r\theta}$1.47±.23; $M_{\theta\phi}$-1.04±.06; $M_{\phi r}$4.25±.39; Best double couple: NP1:ϕ_s198.00000°,δ86.00000°,λ-71.00000°. NP2:ϕ_s299.00000°,δ19.00000°,λ-169.00000°. Principal axes:
T 4.8150,Plg39.0000°,Azm271.0000°; N -0.0610,Plg19.0000°,Azm17.0000°
; P -4.7580,Plg46.0000°,Azm127.0000° $M_0$4.78700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC III 18 19 04 28.6–2.3 37.15N–.04 141.67E–.10 26–14 4.0b 47 1-74
NIED III 18 19 04 00 37.20N 141.60E 35 3.9W **¶16461939**
IDC III 18 19 04 24.5–.95 37.15N 141.73E 0 3.9,3.8
ISCJB III 18 19 04 28.7–.99 37.11N–.03 141.68E–.09 45–7 3.9b,3.5s
NEIC III 18 19 04 30.6–1.2 37.09N 141.72E 46–9 4.2b,3.5s
JMA III 18 19 04 30.3–.20 37.18N 141.57E 46–2 4.1,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ12.00000°,λ-175.00000°. NP2:ϕ_s34.00000°,δ89.00000°,λ-78.00000°. $M_0$7.87000×10^{14}
IDC Error ellipse: s-maj=26.6km s-min=15.9km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.5km az=178.4.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.1km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 19 41 14.4–1.7 36.23N–.05 141.7E–.10 26 3.3b 15 1-56
JMA III 18 19 41 12.4–.30 36.23N 141.81E 74 2.8 **¶602671517**
IDC III 18 19 41 13.7–2.5 36.38N 141.25E 0 3.4,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=60.8km s-min=24.3km az=67.0.
ISC III 18 19 51 10.4–.60 36.45N–.03 141.90E–.07 21–4 3.8b 60 1-147
IDC III 18 19 51 07.2–.73 36.44N 141.91E 0 3.9,3.9L **¶16461940**
NEIC III 18 19 51 09.2–3.0 36.45N 141.98E 15–18 4.5b,3.9L
JMA III 18 19 51 10.7–.20 36.48N 141.93E 31 3.8,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.7km az=121.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.0km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 19 53 05.5–.46 37.62N–.03 141.58E–.03 55–3 5.2b,4.9s 776 1-152
NIED III 18 19 53 00 37.60N 141.60E 47 5.3W,4.9s **¶16337759**
BJI III 18 19 53 02.4 37.55N 141.72E 61 5.3b,5.2b
MOS III 18 19 53 04.2–.88 37.86N 141.46E 43 5.5b,4.9s
ISCJB III 18 19 53 04.9–.33 37.59N–.02 141.46E–.02 58–2 5.2b,4.8s
JMA III 18 19 53 04.5–.10 37.60N 141.59E 43–2 5.2,4.8s
IDC III 18 19 53 06.7–1.7 37.61N 141.48E 62–15 4.9,4.8
NEIC III 18 19 53 07.0–.46 37.58N 141.41E 65–4 5.2b,4.8
GCMT III 18 19 53 07.0–.10 37.65N 141.69E 49–0 5.3W,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ18.00000°,λ93.00000°. NP2:ϕ_s20.00000°,δ72.00000°,λ89.00000°. $M_0$8.84000×10^{16}
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=101.9.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=139.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.0km s-min=9.9km az=125.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=137.0. Recorded [3 JMA] in Fukushima and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c148; s106,c199; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.83±.02 $M_{\theta\theta}$-0.16±.01; $M_{\phi\phi}$-0.67±.01; $M_{r\theta}$0.23±.01; $M_{\theta\phi}$-0.26±.01; $M_{\phi r}$0.60±.01; Best double couple: NP1:ϕ_s21.00000°,δ64.00000°,λ89.00000°. NP2:ϕ_s204.00000°,δ26.00000°,λ92.00000°. Principal axes:
T 1.0520,Plg71.0000°,Azm289.0000°; N -0.0510,Plg1.0000°,Azm22.0000°
; P -1.0010,Plg19.0000°,Azm112.0000° $M_0$1.02700×10^{17}

JMA III 18 20 17 54.6–.20 36.03N 141.84E 23–4 3.9
¶602671460
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 20 31 57.2–.20 35.66N 140.91E 12–1 2.1
¶602671420
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 20 32 34.7–.46 37.30N–.03 141.55E–.03 30–2 4.8b,4.1s 517 1-149
NIED III 18 20 32 00 37.30N 141.60E 44 4.8W,4.1s ¶600556358
ISCJB III 18 20 32 35.5–.42 37.31N–.02 141.53E–.03 47–3 4.8b,4.0s
MOS III 18 20 32 35.1–.89 37.45N 141.49E 38 5.2b,4.0s
JMA III 18 20 32 36.3–.10 37.32N 141.56E 45–2 4.7,4.0s
NEIC III 18 20 32 37.5–.52 37.31N 141.48E 53–4 4.8b,4.0s
IDC III 18 20 32 37.0–1.8 37.35N 141.55E 44–16 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ21.00000°,λ113.00000°. NP2:ϕ_s35.00000°,δ71.00000°,λ82.00000°. $M_0$1.61000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=141.6.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=140.0.
IDC Error ellipse: s-maj=12.4km s-min=10.4km az=99.0.
ISC III 18 20 36 20.2–2.2 37.04N–.05 141.80E–.06 14–13 4.0b 32 1-90
IDC III 18 20 36 18.3–1.4 37.13N 141.92E 0 4.0,3.9 ¶16479259
ISCJB III 18 20 36 21.0–.91 36.99N–.04 141.89E–.07 34–9 3.9b,3.9
JMA III 18 20 36 22.7–.20 37.01N 141.72E 44–3 3.9,3.9
NEIC III 18 20 36 23.4–1.0 37.08N 141.87E 35–10 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=35.2km s-min=20.0km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.9km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.8km az=131.0.
JMA III 18 20 37 59.7–.20 38.31N 142.07E 44 3.7
¶602671410
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 20 44 12.7–2.3 37.27N–.06 141.68E–.09 27–15 3.7b 24 1-69
NIED III 18 20 44 00 37.30N 141.60E 41 3.9W ¶17197079
IDC III 18 20 44 08.3–1.2 37.32N 141.85E 0 3.8,3.7
JMA III 18 20 44 14.2–.20 37.29N 141.59E 45–2 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ26.00000°,λ100.00000°. NP2:ϕ_s33.00000°,δ65.00000°,λ85.00000°. $M_0$6.73000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=21.8km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 20 53 28.7–.10 37.58N 141.75E 19–2 3.5
¶602671378
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 20 58 24.6–1.4 39.22N–.07 142.2E–.10 51 3.5b 15 1-63
IDC III 18 20 58 21.8–1.1 39.87N 142.09E 0 3.7,3.5 ¶17197083
JMA III 18 20 58 21.5–.10 39.16N 142.37E 34–1 4.0,3.5
ISCJB III 18 20 58 22.6–1.1 39.16N–.06 142.27E–.10 51 3.4b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 18 21 05 03.5–4.1 37.70N–.05 142.00E–.08 12–26 3.8b 27 1-68
NIED III 18 21 05 00 37.70N 142.00E 8 3.7W ¶600556385
IDC III 18 21 05 01.5–1.1 37.69N 142.13E 0 3.8,3.7
JMA III 18 21 05 04.3–.20 37.69N 142.01E 26–4 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ32.00000°,λ-67.00000°. NP2:ϕ_s306.00000°,δ61.00000°,λ-104.00000°. $M_0$4.11000×10^{14}
IDC Error ellipse: s-maj=29.2km s-min=18.8km az=85.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 21 07 51.0–2.3 38.27N–.05 142.09E–.08 15–12 3.6b 29 1-89
IDC III 18 21 07 48.6–.88 38.19N 142.17E 0 3.7,3.6b ¶16358655
ISCJB III 18 21 07 48.7–1.8 38.24N–.04 142.29E–.05 13–12 3.5b,3.6b
JMA III 18 21 07 49.9–.30 38.27N 142.28E 27–4 3.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.4km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.7km az=32.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 21 18 53.6–.35 36.14N–.03 141.24E–.04 37–1 5.0b,4.2s 661 1-155
MOS III 18 21 18 52.8–1.0 36.17N 141.12E 42 5.0b,4.1s ¶602672179
BJI III 18 21 18 52.2 36.02N 141.04E 40 5.0b,4.9b
ISCJB III 18 21 18 52.9–.41 36.14N–.02 141.13E–.02 44–3 5.0b,4.1s
JMA III 18 21 18 53.2–.20 36.20N 141.15E 45–2 4.8,4.1s
NEIC III 18 21 18 53.2–1.5 36.11N 141.18E 32–10 4.9b,4.1s
IDC III 18 21 18 53.9–1.7 36.15N 141.24E 38–14 4.7,4.5
ISC Event type ke.
MOS Error ellipse: s-maj=7.0km s-min=5.0km az=110.2.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=42.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=132.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=10.8km s-min=8.5km az=100.0.
IDC III 18 21 28 17.6–1.9 35.91N 140.12E 211–16 3.5,3.1
¶17197085
IDC Error ellipse: s-maj=28.4km s-min=23.1km az=76.0.
JMA III 18 21 49 13.8–.10 38.33N 141.79E 50–3 3.5
¶602672099
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 18 21 52 35.2–.20 37.84N 141.85E 32–4 3.5
¶602672091
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 21 58 01.0–.10 36.48N 140.94E 33–1 3.7
¶602672072
JMA Event type fe.
ISC III 18 22 09 58.4–.71 38.09N–.07 142.99E–.07 18 3.9b 41 2-96
IDC III 18 22 09 55.2–.76 38.09N 143.08E 0 3.9,3.8 ¶602672031
ISCJB III 18 22 09 56.6–.53 38.10N–.06 143.11E–.06 18 3.9b,3.8
JMA III 18 22 09 57.5–.30 38.14N 142.87E 2 4.3,3.8
NEIC III 18 22 10 01.8–.96 38.11N 143.07E 46–8 4.0b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.7km s-min=17.3km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.3km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.7km az=124.0.
JMA III 18 22 10 49.5–.10 36.91N 141.13E 51–1 3.8
NIED III 18 22 10 00 36.90N 141.10E 47 4.0W ¶16479046
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ29.00000°,λ-124.00000°. NP2:ϕ_s133.00000°,δ67.00000°,λ-73.00000°. $M_0$1.11000×10^{15}
ISC III 18 22 24 21.4–2.3 38.84N–.06 142.0E–.20 47–18 3.6b 17 1-59
ISCJB III 18 22 24 21.0–1.6 38.85N–.05 142.0E–.20 56–10 3.7b ¶602672000
JMA III 18 22 24 21.6–.10 38.86N 142.03E 44–1 3.8
IDC III 18 22 24 27.8–9.3 38.75N 141.76E 100–57 3.7,3.5b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=23.1km s-min=7.7km az=11.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=127.5km s-min=22.8km az=71.0.
ISC III 18 22 26 43.7–2.4 37.05N–.06 141.5E–.10 3–11 3.3b 17 1-57
JMA III 18 22 26 46.2–.20 36.98N 141.45E 42–2 3.2 ¶602671993
IDC III 18 22 26 46.5–2.0 37.41N 141.19E 0 3.4,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=41.0km s-min=28.2km az=68.0.
JMA III 18 23 00 06.0–.20 38.35N 142.17E 34–3 3.7
¶603049922
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 23 08 16.0–.55 39.76N–.04 142.52E–.04 29–3 4.6b,4.0s 237 1-145
NIED III 18 23 08 00 39.70N 142.60E 20 4.3W,4.0s ¶600556542
JMA III 18 23 08 12.7–.20 39.65N 142.64E 21–2 4.5,4.0s
ISCJB III 18 23 08 15.3–.53 39.72N–.03 142.56E–.04 36–4 4.6b,3.9s
MOS III 18 23 08 16.4–.98 39.89N 142.45E 38 4.9b,3.9s
IDC III 18 23 08 17.4–2.5 39.65N 142.55E 45–24 4.2,4.1
NEIC III 18 23 08 18.0–.59 39.76N 142.48E 44–5 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ38.00000°,λ21.00000°. NP2:ϕ_s33.00000°,δ77.00000°,λ126.00000°. $M_0$3.43000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=141.6.
MOS Error ellipse: s-maj=8.4km s-min=5.0km az=97.9.
IDC Error ellipse: s-maj=14.6km s-min=11.8km az=99.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=137.0.
ISC III 18 23 15 45.2–2.0 36.72N–.06 141.3E–.10 30–11 3.5b 22 1-147
IDC III 18 23 15 40.6–1.4 36.76N 141.37E 0 3.6,3.6b ¶600556547
ISCJB III 18 23 15 45.7–1.4 36.73N–.05 141.2E–.10 47–8 3.5b,3.6b
JMA III 18 23 15 47.0–.10 36.76N 141.11E 45–1 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=27.3km az=47.0.
ISCJB Event type fe. Error ellipse: s-maj=17.2km s-min=7.6km az=16.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 18 23 19 00.1 36.76N 140.64E 7–1 2.9
¶603049921
JMA Event type fe.
ISC III 18 23 19 47.4–.41 35.93N–.04 141.76E–.05 23 4.6b 100 1-154
IDC III 18 23 19 43.6–.41 35.89N 141.80E 0 4.5,4.4 ¶17197097
JMA III 18 23 19 44.8–.30 35.97N 141.82E 19–4 4.5,4.4
ISCJB III 18 23 19 45.6–.28 35.90N–.03 141.79E–.04 23 4.5b,4.4
NEIC III 18 23 19 48.9–.27 35.89N 141.77E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=10.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=28.6.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.8km az=119.0.
ISC III 18 23 29 14.9–3.2 39.01N–.06 142.33E–.09 26–22 3.8b 25 1-88
JMA III 18 23 29 15.1–.10 39.02N 142.35E 26–1 3.7 ¶17197099
IDC III 18 23 29 18.4–4.2 38.94N 142.30E 58–40 3.8,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.7km s-min=16.8km az=95.0.
ISC III 18 23 32 59.7–.25 39.21N–.03 142.43E–.03 32–1 5.6b,5.1s 1539 1-162
NIED III 18 23 32 00 39.20N 142.40E 41 5.5W,5.1s ¶602669128
BJI III 18 23 32 54.8 39.06N 142.55E 24 5.5b,5.5b
IDC III 18 23 32 59.7–2.3 39.14N 142.30E 31–16 5.2,5.1
JMA III 18 23 32 59.8–.10 39.19N 142.42E 37–1 5.7,5.1
ISCJB III 18 23 33 00.3–.37 39.13N–.02 142.29E–.02 48–3 5.6b,5.1s
MOS III 18 23 33 00.2–.94 39.21N 142.26E 45 5.8b,5.1s
NEIC III 18 23 33 01.4–.18 39.16N 142.23E 42–1 5.6b,5.5W
GCMT III 18 23 33 01.4–.10 39.24N 142.36E 25–0 5.6W,5.5W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ5.00000°,λ132.00000°. NP2:ϕ_s16.00000°,δ86.00000°,λ87.00000°. $M_0$1.74000×10^{17}
IDC Error ellipse: s-maj=9.5km s-min=7.4km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=148.4.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=102.4.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.9km az=138.0. Recorded [4 JMA] in Iwate. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}0.47 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$0.05 $M_{r\theta}$0.38 $M_{\theta\phi}$1.19 $M_{\phi r}$1.34 Best double couple: NP1:ϕ_s93.00000°,δ46.00000°,λ18.00000°. NP2:ϕ_s350.00000°,δ77.00000°,λ135.00000°. Principal axes: T 2.0700,Plg40.0000° ,Azm301.0000°; N -0.4200,Plg44.0000°,Azm158.0000°; P -1.6500,Plg19.0000° ,Azm48.0000° $M_0$1.90000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c127; s118,c200; Duration: 1±5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.09±.02 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$-0.18±.01; $M_{r\theta}$1.00±.04; $M_{\theta\phi}$-0.15±.01; $M_{\phi r}$2.86±.07; Best double couple: NP1:ϕ_s19.00000°,δ88.00000° ,λ89.00000°. NP2:ϕ_s219.00000°,δ2.00000°,λ110.00000°. Principal axes: T 2.9570,Plg47.0000°,Azm289.0000°; N 0.1530,Plg1.0000°,Azm19.0000° ; P -3.1100,Plg43.0000°,Azm110.0000° $M_0$3.03400×10^{17}
JMA III 18 23 39 56.8–.10 39.22N 142.52E 29–1 3.8
¶602669118
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 23 49 05.1–.56 37.74N–.04 141.88E–.03 25–3 4.9s,4.9b 331 1-155
IDC III 18 23 49 01.0–.40 37.76N 141.89E 0 4.6s,4.6 ¶602669106
JMA III 18 23 49 02.6–.20 37.73N 141.91E 16–2 5.3,4.6
BJI III 18 23 49 03.3 37.60N 141.95E 33 5.3b,5.1s
ISCJB III 18 23 49 03.1–.65 37.71N–.02 141.89E–.03 21–4 4.9s,4.8b
MOS III 18 23 49 04.7–1.0 37.73N 141.87E 33 5.0b,5.0s
NEIC III 18 23 49 06.7–1.4 37.76N 141.83E 34–10 5.1b,5.0s
ISC Event type ke.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=141.4.
MOS Error ellipse: s-maj=7.8km s-min=5.6km az=106.6.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.6km az=131.0.
ISC III 18 23 49 31.6–.84 36.77N–.05 140.62E–.04 8–5 5.0b,4.6s 432 0-158
NIED III 18 23 49 00 36.80N 140.70E 5 5.1W,4.6s ¶602443723
IDC III 18 23 49 31.4–.55 36.99N 140.48E 0 5.0,4.8
JMA III 18 23 49 31.4 36.74N 140.60E 5–1 5.3,4.8
ISCJB III 18 23 49 31.6–.82 36.79N–.04 140.55E–.03 11–4 4.8b,4.5s
GCMT III 18 23 49 36.5–.20 36.73N 140.53E 12 5.1W,4.5s
NEIC III 18 23 49 36.5–1.5 36.94N 140.62E 40–12 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ31.00000°,λ-99.00000°. NP2:ϕ_s195.00000°,δ59.00000°,λ-85.00000°. $M_0$5.30000×10^{16}
IDC Error ellipse: s-maj=17.6km s-min=11.9km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=168.3.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c36; s109,c183; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.11±.09 $M_{\theta\theta}$0.61±.09; $M_{\phi\phi}$4.50±.07; $M_{r\theta}$-0.57±.35; $M_{\theta\phi}$0.77±.07; $M_{\phi r}$0.88±.31; Best double couple: NP1:ϕ_s183.00000°,δ50.00000° ,λ-99.00000°. NP2:ϕ_s18.00000°,δ41.00000°,λ-79.00000°. Principal axes: T 4.7050,Plg4.0000°,Azm280.0000°; N 0.5490,Plg7.0000°,Azm189.0000° ; P -5.2580,Plg82.0000°,Azm42.0000° $M_0$4.98200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=16.5km s-min=9.3km az=151.0. Recorded [4 JMA] in Ibaraki.
JMA III 18 23 51 44.9–.10 38.30N 141.88E 48–3 4.0
¶602669105
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 18 23 53 52.2–2.8 38.85N–.05 142.64E–.07 6–16 3.8b 33 1-145
JMA III 18 23 53 54.5–.10 38.90N 142.59E 23–2 4.2 ¶17197104
IDC III 18 23 53 58.5–4.5 38.82N 142.63E 51–41 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=16.6km az=86.0.
ISC III 19 00 01 25.0–.62 38.20N–.06 142.74E–.07 18 4.2b 53 1-89
NIED III 19 00 01 00 38.30N 142.60E 20 4.2W ¶16479291
ISCJB III 19 00 01 23.6–.42 38.27N–.05 142.78E–.05 18 4.2b
JMA III 19 00 01 26.2–.10 38.33N 142.61E 22–3 4.3
NEIC III 19 00 01 29.4–.76 38.22N 142.68E 54–6 4.3b
IDC III 19 00 01 29.3–2.4 38.22N 142.66E 52–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ24.00000°,λ8.00000°. NP2:ϕ_s141.00000°,δ87.00000°,λ114.00000°. $M_0$2.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.2km az=129.0.
IDC Error ellipse: s-maj=18.1km s-min=13.7km az=109.0.
JMA III 19 00 06 42.0–.20 37.14N 141.20E 26–1 2.8
¶602675326
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 00 07 50.1–1.3 37.83N–.05 141.73E–.08 62–10 4.0b 50 1-146

NIED III 19 00 07 00 37.80N 141.70E 53 4.1W ¶600556598
JMA III 19 00 07 49.4–.10 37.83N 141.74E 54–2 4.2
ISCJB III 19 00 07 49.4–.81 37.84N–.04 141.70E–.08 71–6 3.9b
IDC III 19 00 07 52.9–2.0 37.82N 141.55E 88–18 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ37.00000°,λ59.00000°. NP2:ϕ_s16.00000°,δ59.00000°,λ111.00000°. $M_0$1.81000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.0km az=19.4.
IDC Error ellipse: s-maj=16.4km s-min=13.0km az=83.0.
ISC III 19 00 19 17.2–1.7 39.71N–.06 142.49E–.06 17–10 4.4b 43 1-95
NIED III 19 00 19 00 39.70N 142.60E 23 4.0W ¶602675249
JMA III 19 00 19 16.3–.30 39.66N 142.63E 19–2 4.2
IDC III 19 00 19 22.3–3.3 39.62N 142.55E 62–29 4.1,4.0
NEIC III 19 00 19 22.8–.64 39.63N 142.53E 66–5 4.4b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ27.00000°,λ20.00000°. NP2:ϕ_s24.00000°,δ81.00000°,λ116.00000°. $M_0$1.21000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=20.4km s-min=16.9km az=98.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.7km az=116.0.
JMA III 19 00 21 07.3–.10 36.91N 141.13E 51–1 3.7
¶602675248
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 00 22 47.9 36.72N 140.60E 7 2.7
¶602675244
ISC III 19 00 23 53.5–1.5 36.40N–.05 140.96E–.06 30–10 3.9b 31 0-69
NIED III 19 00 23 00 36.40N 141.00E 35 3.7W ¶600556627
IDC III 19 00 23 48.7–1.2 36.29N 141.06E 0 3.9L,3.8
ISCJB III 19 00 23 53.0–.90 36.36N–.05 141.02E–.07 44–7 3.9b,3.8
JMA III 19 00 23 53.6–.10 36.37N 140.96E 45–1 3.6,3.8
NEIC III 19 00 23 54.6–1.3 36.31N 140.98E 43–9 4.0b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ44.00000°,λ28.00000°. NP2:ϕ_s29.00000°,δ71.00000°,λ130.00000°. $M_0$4.25000×10^{14}
IDC Error ellipse: s-maj=27.6km s-min=23.4km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.6km az=28.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.5km az=147.0.
JMA III 19 00 39 26.4 36.68N 140.57E 7–1 3.5
¶602675205
JMA Event type fe.
ISC III 19 00 41 26.8–.98 36.70N–.04 140.61E–.05 9–6 3.4b 23 0-91
IDC III 19 00 41 25.1–.93 36.59N 140.66E 0 3.7,3.5 ¶602675191
ISCJB III 19 00 41 25.5–.84 36.66N–.04 140.73E–.06 13–4 3.3b,3.5
JMA III 19 00 41 26.9 36.72N 140.59E 6–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=20.9km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.3km az=31.6.
JMA Event type fe.
JMA III 19 00 53 50.0–.20 40.09N 142.61E 21–2 3.5
¶602675181
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 19 00 57 10.7–.73 36.85N–.04 141.17E–.04 48–6 4.5b,3.8s 206 0-147
NIED III 19 00 57 00 36.80N 141.20E 47 4.5W,3.8s ¶16338023
BJI III 19 00 57 07.5 36.70N 141.50E 65 5.0b,4.6b
MOS III 19 00 57 07.5–1.2 36.85N 141.21E 33 4.6b,4.6b
ISCJB III 19 00 57 10.0–.38 36.84N–.02 141.14E–.03 54–3 4.6b,3.7s
JMA III 19 00 57 10.3–.10 36.81N 141.14E 48–1 4.1,3.7s
IDC III 19 00 57 12.2–1.8 36.79N 141.10E 63–16 4.2,4.1
NEIC III 19 00 57 13.1–.41 36.85N 141.06E 67–4 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ11.00000°,λ85.00000°. NP2:ϕ_s43.00000°,δ79.00000°,λ91.00000°. $M_0$6.26000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=5.7km az=93.5.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.8km az=31.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=10.5km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=136.0. Recorded [3 JMA] in Fukushima.
JMA III 19 01 31 20.8–.20 37.50N 141.90E 27–3 3.9
¶602675117
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 19 01 46 40.1–.20 37.19N 141.17E 34–1 3.4
¶603049295
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 19 01 48 00.6–.20 37.33N 141.75E 45–3 3.9
¶17197118
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 19 02 06 46.4–.10 38.94N 142.35E 30–2 3.8
¶603049296
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 02 12 04.1–.74 34.86N–.06 140.87E–.09 48 3.7b 21 0-119
JMA III 19 02 11 59.2–.30 34.91N 141.20E 52–3 3.5 ¶17197121
ISCJB III 19 02 12 02.1–.61 34.83N–.06 140.97E–.07 48 3.8b
IDC III 19 02 12 03.7–3.5 34.86N 140.99E 43–34 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.8km az=29.6.
IDC Error ellipse: s-maj=26.2km s-min=19.1km az=78.0.
IDC III 19 02 48 40.4–3.1 39.58N 142.60E 0 3.6,3.5
¶17197125
IDC Error ellipse: s-maj=77.3km s-min=31.6km az=75.0.
ISC III 19 02 51 39.6–.62 36.29N–.04 141.73E–.08 36–2 4.1b 64 1-152
NIED III 19 02 51 00 36.30N 141.70E 14 4.1W ¶16461972
JMA III 19 02 51 38.7–.20 36.32N 141.69E 64–4 3.8
ISCJB III 19 02 51 38.8–.71 36.27N–.03 141.72E–.06 46–6 4.1b
NEIC III 19 02 51 40.1–.79 36.26N 141.69E 41–6 4.3b
IDC III 19 02 51 41.0–2.1 36.20N 141.63E 49–21 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ42.00000°,λ-85.00000°. NP2:ϕ_s268.00000°,δ48.00000°,λ-94.00000°. $M_0$1.70000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.3km az=176.6.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=139.0.
IDC Error ellipse: s-maj=17.1km s-min=13.4km az=78.0.
ISC III 19 02 55 55.9–.52 37.73N–.03 141.72E–.04 33–1 4.7b 345 1-152
NIED III 19 02 55 00 37.70N 141.70E 50 4.6W ¶16338032
MOS III 19 02 55 54.9–1.1 37.79N 141.65E 36 5.1b
NEIC III 19 02 55 56.5–.62 37.68N 141.57E 37–5 4.7b
ISCJB III 19 02 55 56.4–.42 37.71N–.02 141.65E–.03 51–3 4.7b,4.2s
JMA III 19 02 55 57.0–.10 37.74N 141.69E 45–2 4.7,4.2s
IDC III 19 02 55 59.3–1.9 37.72N 141.58E 63–17 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ10.00000°,λ64.00000°. NP2:ϕ_s20.00000°,δ81.00000°,λ95.00000°. $M_0$9.21000×10^{15}
MOS Error ellipse: s-maj=7.4km s-min=4.5km az=100.3.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=27.9.
JMA Event type fe.
IDC Error ellipse: s-maj=12.2km s-min=10.0km az=99.0.
JMA III 19 03 53 35.9–.10 37.56N 141.62E 42–2 3.6
¶602675403
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 04 22 23.6–1.5 36.39N–.05 140.87E–.06 29–10 3.8b 28 0-75
JMA III 19 04 22 23.9–.10 36.38N 140.91E 42–1 3.7 ¶17197132
ISCJB III 19 04 22 23.2–.84 36.36N–.04 140.96E–.07 44–7 3.7b
IDC III 19 04 22 25.5–2.8 36.34N 140.89E 48–26 3.7,3.7L
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.4km az=10.8.
IDC Error ellipse: s-maj=27.1km s-min=9.9km az=61.0.
ISC III 19 04 30 19.2–.61 38.13N–.05 141.94E–.07 30 4.0b,3.7s 37 1-89
NIED III 19 04 30 00 38.20N 142.20E 5 4.2W,3.7s ¶602675690
JMA III 19 04 30 15.1–.10 38.15N 142.16E 16–2 4.3,3.7s
ISCJB III 19 04 30 17.2–.45 38.08N–.04 142.04E–.06 30 3.9b,3.7s
IDC III 19 04 30 23.4–2.8 38.11N 141.78E 67–26 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ43.00000°,λ-74.00000°. NP2:ϕ_s155.00000°,δ49.00000°,λ-104.00000°. $M_0$2.50000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.4km az=176.1.
IDC Error ellipse: s-maj=16.7km s-min=14.7km az=108.0.
IDC III 19 04 59 05.7–2.6 36.12N 141.52E 0 3.7,3.6
¶17197135
IDC Error ellipse: s-maj=76.5km s-min=28.0km az=61.0.
ISC III 19 05 24 43.4–.49 36.44N–.05 141.87E–.06 19 4.4b 79 1-152
NIED III 19 05 24 00 36.50N 141.90E 11 4.0W ¶602674941
IDC III 19 05 24 40.0–.63 36.34N 142.03E 0 4.2,4.0
JMA III 19 05 24 41.4–.50 36.49N 141.93E 85 3.6,4.0
ISCJB III 19 05 24 41.2–.29 36.38N–.04 141.97E–.04 19 4.4b,4.0
NEIC III 19 05 24 45.6–.72 36.39N 141.93E 37–6 4.6b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ41.00000°,λ95.00000°. NP2:ϕ_s188.00000°,δ50.00000°,λ86.00000°. $M_0$1.23000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.0km az=132.0.
JMA Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.8km az=163.9.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.9km az=84.0.
JMA III 19 05 28 53.6–.10 39.21N 142.38E 31–1 3.9
¶602674939
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 05 30 04.6–1.7 36.51N–.07 140.72E–.08 19–3 3.8b 18 0-60
IDC III 19 05 30 00.2–2.2 36.00N 140.85E 0 3.9,3.7 ¶600556969
ISCJB III 19 05 30 02.6–1.4 36.44N–.05 140.82E–.08 11–5 3.7b,3.7
JMA III 19 05 30 03.8 36.48N 140.76E 19–1 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=63.8km s-min=21.7km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.3km az=34.1.
JMA Event type fe.
ISC III 19 05 32 18.1–2.1 39.57N–.08 142.75E–.08 16–12 4.2b 39 1-73
IDC III 19 05 32 01.6–1.5 37.67N 143.86E 0 3.9,3.9 ¶16447642
NEIC III 19 05 32 03.7–4.9 37.60N 143.72E 11–29 4.6b,3.9
JMA III 19 05 32 19.3–.30 39.66N 142.73E 21–3 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=42.6km s-min=25.9km az=80.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=10.2km az=103.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 19 05 39 29.7–.20 37.28N 141.58E 45–2 3.4
¶603049923
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 19 05 41 30.4–.10 35.74N 141.00E 9–1 3.7
NIED III 19 05 41 00 35.70N 141.00E 5 3.6W ¶600556982
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ38.00000°,λ-42.00000°. NP2:ϕ_s141.00000°,δ66.00000°,λ-120.00000°. $M_0$2.83000×10^{14}
ISC III 19 06 01 48.9–.51 38.10N–.05 141.97E–.06 30 4.2b,3.5s 69 1-146
NIED III 19 06 01 00 38.10N 142.10E 5 4.4W,3.5s ¶600557002
IDC III 19 06 01 44.1–.61 38.06N 142.01E 0 4.1,4.0
JMA III 19 06 01 45.5–.20 38.13N 142.12E 11–2 4.2,4.0
ISCJB III 19 06 01 46.8–.31 38.04N–.03 142.04E–.04 30 4.2b,3.6s
NEIC III 19 06 01 50.1–.63 38.08N 141.94E 40–6 4.6b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ33.00000°,λ-85.00000°. NP2:ϕ_s144.00000°,δ57.00000°,λ-93.00000°. $M_0$3.97000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=13.4km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.6km az=19.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=113.0.
ISC III 19 06 31 23.3–1.4 36.77N–.06 140.62E–.05 5–10 3.5b 22 0-91
NIED III 19 06 31 00 36.70N 140.60E 5 3.5W ¶602674642
IDC III 19 06 31 22.4–.86 36.72N 140.63E 0 3.8,3.6
ISCJB III 19 06 31 23.0–.85 36.69N–.04 140.70E–.06 14–4 3.5b,3.6
JMA III 19 06 31 24.2 36.73N 140.60E 4–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ38.00000°,λ-91.00000°. NP2:ϕ_s158.00000°,δ52.00000°,λ-89.00000°. $M_0$2.31000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=19.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.8km az=24.7.
JMA Event type fe.
ISC III 19 06 43 06.1–1.2 36.20N–.04 141.14E–.05 26–8 4.6b 140 1-118
NIED III 19 06 43 00 36.20N 141.30E 11 4.2W ¶16338038
IDC III 19 06 43 01.6–.53 36.16N 141.16E 0 4.5,4.4
JMA III 19 06 43 03.8–.10 36.16N 141.25E 43–2 4.5,4.4
ISCJB III 19 06 43 05.2–.62 36.18N–.03 141.12E–.04 30–4 4.5b,4.2s
NEIC III 19 06 43 07.5–1.6 36.24N 141.05E 33–11 4.7b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ24.00000°,λ-94.00000°. NP2:ϕ_s51.00000°,δ66.00000°,λ-88.00000°. $M_0$2.51000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.9km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.7km az=27.4.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=150.0.
ISC III 19 07 00 24.4–1.4 38.36N–.09 142.45E–.09 35 3.4b 13 1-89
IDC III 19 07 00 17.2–1.2 37.21N 143.68E 0 3.5,3.3 ¶600557048
ISCJB III 19 07 00 24.1–1.1 38.39N–.07 142.44E–.08 35 3.4b,3.3
JMA III 19 07 00 26.9–.20 38.45N 142.23E 33–3 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=50.8km s-min=24.6km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=8.7km az=167.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 19 07 01 32.5–2.6 36.78N 141.72E 0 4.0,3.9
¶603049924
IDC Error ellipse: s-maj=65.0km s-min=30.4km az=60.0.
JMA III 19 07 16 18.2–.10 38.45N 142.17E 35–2 3.5
¶602674566
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 07 17 32.7–.84 35.72N–.05 140.74E–.07 45 3.5b 21 0-59
ISCJB III 19 07 17 32.0–.57 35.72N–.04 140.69E–.09 45 3.6b ¶16479366
JMA III 19 07 17 32.6–.10 35.75N 140.66E 47–1 3.1
IDC III 19 07 17 34.8–2.6 35.62N 140.48E 62–23 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.0km s-min=12.8km az=75.0.
ISC III 19 07 32 31.0–.58 36.30N–.05 141.38E–.06 26 3.9b 36 1-152
NIED III 19 07 32 00 36.30N 141.30E 26 3.7W ¶16447647
IDC III 19 07 32 26.9–1.0 36.29N 141.38E 0 3.8L,3.6
ISCJB III 19 07 32 28.9–.44 36.29N–.04 141.50E–.05 26 4.1b,3.6
JMA III 19 07 32 31.6–.10 36.28N 141.31E 48–2 3.7,3.6
NEIC III 19 07 32 33.8–1.1 36.28N 141.27E 50–10 4.7b,3.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ37.00000°,λ-7.00000°. NP2:ϕ_s239.00000°,δ86.00000°,λ-127.00000°. $M_0$4.25000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=21.0km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.5km az=136.6.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.8km az=70.0.
ISC III 19 07 51 01.5–2.5 36.54N–.05 141.62E–.07 8–14 3.6b 28 1-69
NIED III 19 07 51 00 36.60N 141.40E 38 3.8W ¶17197159
IDC III 19 07 51 00.1–1.0 36.50N 141.76E 0 3.7,3.6L
ISCJB III 19 07 51 02.3–1.2 36.52N–.04 141.62E–.06 25–7 3.6b,3.6L
JMA III 19 07 51 05.7–.10 36.59N 141.40E 43–3 3.6,3.6L

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ54.00000°,λ-173.00000°. NP2:ϕ_s211.00000°,δ84.00000°,λ-36.00000°. $M_0$5.17000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=20.0km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.8km az=171.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**19 08 02 23.5–.38**	**38.95N–.04**	**142.40E–.05**	**27**	**4.7b,3.5s**	**180**	**1-147**
NIED	III	19 08 02 00	39.00N	142.50E	23	4.4W,3.5s		**¶16447648**
JMA	III	19 08 02 22.2–.20	39.00N	142.45E	26–2	4.5,3.5s		
ISCJB	III	19 08 02 22.0–.19	38.95N–.03	142.42E–.03	27	4.5b,3.5s		
IDC	III	19 08 02 23.2–.69	38.95N	142.48E	26–3	4.3,4.2		
NEIC	III	19 08 02 25.5–.47	38.97N	142.41E	41–4	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ28.00000°,λ-137.00000°. NP2:ϕ_s145.00000°,δ71.00000°,λ-69.00000°. $M_0$5.30000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=158.8.
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=148.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=136.0.

JMA	**III**	**19 08 06 44.1–.30**	**36.05N**	**141.93E**	**53**	**3.5**		
NIED	III	19 08 06 00	36.10N	141.90E	32	4.0W		**¶600557079**

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ13.00000°,λ-54.00000°. NP2:ϕ_s92.00000°,δ79.00000°,λ-98.00000°. $M_0$1.04000×10^{15}

ISC	**III**	**19 08 31 45.3–.75**	**35.16N–.05**	**141.0E–.10**	**48**	**4.2b**	**42**	**1-161**
NIED	III	19 08 31 00	35.30N	141.10E	23	4.1W		**¶16447651**
IDC	III	19 08 31 38.1–.87	35.09N	141.22E	0	3.9,3.8b		
JMA	III	19 08 31 41.6–.20	35.30N	141.15E	19–3	3.5,3.8b		
ISCJB	III	19 08 31 43.2–.46	35.13N–.05	141.04E–.07	48	4.1b,3.8b		
NEIC	III	19 08 31 44.4–1.1	35.11N	141.11E	43–9	4.5b,3.8b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ31.00000°,λ-126.00000°. NP2:ϕ_s205.00000°,δ66.00000°,λ-71.00000°. $M_0$1.88000×10^{15}
IDC Error ellipse: s-maj=25.9km s-min=15.7km az=84.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=166.7.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.6km az=81.0.

ISC	**III**	**19 08 34 24.2–1.3**	**35.50N–.07**	**140.8E–.20**	**33**		**5**	**0-55**
IDC	III	19 08 34 17.3–4.6	35.65N	141.72E	0	3.4,3.4		**¶17197164**
JMA	III	19 08 34 22.9–.30	35.45N	141.16E	28–3	2.8,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=132.6km s-min=32.9km az=54.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC	**III**	**19 09 36 45.5–2.1**	**36.18N–.06**	**141.04E–.08**	**16–14**	**3.4b**	**13**	**0-56**
IDC	III	19 09 36 44.4–1.3	35.93N	141.14E	0	3.6,3.5b		**¶602674368**
ISCJB	III	19 09 36 46.3–.95	36.23N–.04	141.04E–.08	31–6	3.5b,3.5b		
JMA	III	19 09 36 46.5	36.22N	141.02E	35–1	3.4,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=38.7km s-min=26.5km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=7.0km az=173.2.
JMA Event type fe.

JMA	**III**	**19 09 39 49.8**	**36.74N**	**140.60E**	**3–1**	**2.8**		
								¶603049926
ISC	**III**	**19 09 56 19.7–1.0**	**36.79N–.03**	**140.51E–.04**	**7–7**	**3.8b**	**30**	**0-78**
IDC	III	19 09 56 18.1–.79	36.70N	140.50E	0	4.0,3.8		**¶602443727**
ISCJB	III	19 09 56 19.1–.64	36.76N–.03	140.65E–.06	16–4	3.7b,3.8		
JMA	III	19 09 56 19.6	36.78N	140.57E	6–1	4.0,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=20.2km s-min=17.3km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.0km az=18.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s316.00000°,δ62.00000°,λ-101.00000°. NP2:ϕ_s158.00000°,δ30.00000°,λ-70.00000°. Principal axes: T Plg16.0000°,Azm54.0000°; N Plg10.0000°,Azm321.0000°; P Plg71.0000°,Azm201.0000°

ISC	**III**	**19 09 56 49.5–.36**	**36.81N–.02**	**140.45E–.02**	**17–1**	**6.0b,5.5s**	**2054**	**0-165**
NIED	III	19 09 56 00	36.70N	140.70E	5	5.8W,5.5s		**¶17197181**
BJI	III	19 09 56 43.3	36.61N	140.83E	16	5.9s,5.7		
ISCJB	III	19 09 56 47.6–.52	36.75N–.01	140.36E–.01	15–3	5.9b,5.5s		
GCMT	III	19 09 56 47.8–.10	36.86N	140.48E	12	5.8W,5.5s		
NEIC	III	19 09 56 47.7–.07	36.80N	140.27E	6	6.1b,5.7W		
JMA	III	19 09 56 48.0	36.78N	140.57E	5–1	6.1,5.7W		
MOS	III	19 09 56 49.4–1.1	36.77N	140.31E	30	6.2b,5.6s		
IDC	III	19 09 56 51.9–1.6	36.81N	140.39E	33–11	5.6,5.6		
NEIC	III	19 09 56 51.0–.00	36.66N	140.93E	12	5.6,5.6		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ42.00000°,λ-86.00000°. NP2:ϕ_s141.00000°,δ48.00000°,λ-94.00000°. $M_0$6.35000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=152.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c242; s142,c432;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.88±.04 $M_{\theta\theta}$3.01±.04; $M_{\phi\phi}$3.87±.05; $M_{r\theta}$1.33±.12; $M_{\theta\phi}$-2.71±.04; $M_{\phi r}$2.14±.13; Best double couple: NP1: ϕ_s156.00000°,δ51.00000°,λ-69.00000°. NP2:ϕ_s305.00000°,δ44.00000°,λ-113.00000°. Principal axes: T 6.2320,Plg4.0000°,Azm231.0000°; N 1.3840,Plg16.0000°,Azm322.0000°; P -7.6160,Plg74.0000°,Azm129.0000° $M_0$6.92400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=143.0. Felt [V] at Yokohama, [IV] at Tokyo, [III] at Ayase and Yokosuka and [II] at Sagamihara. Felt widely in southeastern Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.50 $M_{\theta\theta}$3.53 $M_{\phi\phi}$0.97 $M_{r\theta}$-0.83 $M_{\theta\phi}$-1.56 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s304.00000°,δ42.00000°,λ-77.00000°. NP2:ϕ_s106.00000°,δ49.00000°,λ-10.00000°. Principal axes: T 4.3000,Plg4.0000°,Azm205.0000°; N 0.3500,Plg9.0000°,Azm114.0000°; P -4.6500,Plg80.0000°,Azm317.0000° $M_0$4.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s125.00000°,δ30.00000°,λ-90.00000°. NP2: ϕ_s305.00000°,δ60.00000°,λ-90.00000°. Principal axes: T Plg15.0000°,Azm35.0000°; N Plg0.0000°,Azm0.0000°; P Plg75.0000°,Azm215.0000°
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=109.6.
IDC Error ellipse: s-maj=9.5km s-min=5.9km az=107.0.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.58 $M_{\theta\theta}$2.31 $M_{\phi\phi}$2.28 $M_{r\theta}$0.82 $M_{\theta\phi}$-1.39 $M_{\phi r}$-0.27 Best double couple: NP1:ϕ_s310.00000°,δ50.00000°,λ-95.00000°. NP2:ϕ_s138.00000°,δ40.00000°,λ-83.00000°. Principal axes: T 3.7500,Plg5.0000°,Azm43.0000°; N 0.9300,Plg3.0000°,Azm313.0000°; P -4.6800,Plg83.0000°,Azm187.0000° $M_0$4.30000×10^{17}

JMA	**III**	**19 10 07 17.7**	**36.73N**	**140.64E**	**6–1**	**3.1**		
								¶603049927

JMA Event type fe.

ISC	**III**	**19 10 11 47.3–1.0**	**36.71N–.05**	**140.60E–.07**	**12–7**	**3.8b**	**17**	**0-60**
ISCJB	III	19 10 11 45.8–1.1	36.65N–.07	140.79E–.07	12–5	3.7b		**¶602674273**
IDC	III	19 10 11 45.0–1.7	36.82N	140.76E	0	3.9,3.7		
JMA	III	19 10 11 47.7	36.72N	140.63E	6–1	3.7,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=8.3km az=143.0.
IDC Error ellipse: s-maj=37.1km s-min=21.6km az=63.0.
JMA Event type fe.

ISC	**III**	**19 10 15 35.2–1.5**	**36.75N–.05**	**140.77E–.06**	**8–9**	**3.8b**	**33**	**0-91**
ISCJB	III	19 10 15 34.8–.87	36.70N–.04	140.84E–.05	18–6	4.5s,3.7b		**¶602674270**
IDC	III	19 10 15 34.1–.82	36.79N	140.78E	0	4.5,4.5s		
JMA	III	19 10 15 36.7	36.74N	140.64E	6–1	3.6,4.5s		
NEIC	III	19 10 15 39.0–.46	36.76N	140.74E	35	4.3b,4.5s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=42.0.
IDC Error ellipse: s-maj=20.7km s-min=16.9km az=148.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.7km az=126.0.

ISC	**III**	**19 10 25 48.6–1.6**	**37.05N–.09**	**141.6E–.10**	**35**	**3.5b**	**14**	**1-57**
IDC	III	19 10 25 42.4–2.5	37.09N	141.85E	0	3.7,3.7b		**¶17197186**
ISCJB	III	19 10 25 46.9–1.2	37.01N–.08	141.7E–.10	35	3.6b,3.7b		
JMA	III	19 10 25 49.3–.30	37.06N	141.46E	45–2	3.4,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=65.9km s-min=28.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=11.4km az=155.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**19 10 26 12.8–1.4**	**36.81N–.08**	**140.59E–.06**	**8–11**	**3.8b**	**14**	**0-91**
IDC	III	19 10 26 11.6–1.0	36.79N	140.61E	0	4.0,3.7		**¶17197189**
ISCJB	III	19 10 26 12.5–.86	36.74N–.05	140.68E–.07	16–6	3.7b,3.7		
JMA	III	19 10 26 13.5	36.78N	140.57E	6–1	3.7,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=19.6km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=8.0km az=35.4.
JMA Event type fe.

JMA	**III**	**19 10 40 04.1–.10**	**39.44N**	**142.79E**	**23–2**	**3.6**		
								¶603049928

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**19 10 40 30.7–.77**	**38.7N–.10**	**142.5E–.10**	**24**	**3.8b**	**17**	**3-88**
ISCJB	III	19 10 40 29.0–.66	38.7N–.10	142.4E–.20	24	3.8b		**¶16479414**
NEIC	III	19 10 40 32.0–.49	38.73N	142.37E	35	4.3b		
IDC	III	19 10 40 32.2–1.6	38.68N	142.49E	35–7	4.0L,3.8		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.4km s-min=8.1km az=41.1.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=6.7km az=130.0.
IDC Error ellipse: s-maj=65.8km s-min=30.3km az=135.0.

JMA	**III**	**19 10 58 42.6–.10**	**35.82N**	**140.87E**	**10–1**	**3.0**		
								¶603049930

JMA	**III**	**19 11 08 58.1–.20**	**38.33N**	**142.00E**	**39–4**	**3.6**		
								¶602674194

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

JMA	**III**	**19 11 16 42.4**	**36.78N**	**140.57E**	**7**	**2.7**		
								¶602674166

ISC	**III**	**19 11 17 39.1–1.1**	**36.77N–.03**	**140.58E–.05**	**6–7**	**3.8b**	**34**	**0-153**
NIED	III	19 11 17 00	36.80N	140.60E	38	4.3W		**¶602674162**
IDC	III	19 11 17 38.4–.94	36.78N	140.64E	0	4.1,3.8b		
JMA	III	19 11 17 38.9	36.77N	140.58E	8	3.8,3.8b		
ISCJB	III	19 11 17 38.5–.67	36.74N–.04	140.66E–.06	11–4	3.8b,3.8b		
NEIC	III	19 11 17 43.2–.51	36.86N	140.45E	35	4.3b,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ50.00000°,λ46.00000°. NP2:ϕ_s105.00000°,δ57.00000°,λ130.00000°. $M_0$3.01000×10^{15}
IDC Error ellipse: s-maj=28.5km s-min=19.0km az=152.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=34.1.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=9.2km az=156.0.

JMA	**III**	**19 11 19 22.5**	**36.71N**	**140.60E**	**8–1**	**3.2**		
								¶603049931

JMA Event type fe.

ISC	**III**	**19 11 32 08.0–.86**	**35.10N–.05**	**140.98E–.08**	**48**	**3.8b**	**21**	**0-79**
IDC	III	19 11 32 02.0–.96	35.09N	141.24E	0	4.0,3.9		**¶602674894**
JMA	III	19 11 32 05.3–.10	35.17N	141.08E	36–3	3.3,3.9		
ISCJB	III	19 11 32 06.7–.64	35.04N–.05	140.96E–.07	48	3.9b,3.9		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**19 11 42 08.0–1.4**	**36.78N–.04**	**140.58E–.06**	**10–14**		**13**	**0-69**
IDC	III	19 11 41 55.5–4.8	36.63N	141.18E	0	3.9b,3.6		**¶603049933**
ISCJB	III	19 11 42 07.6–.95	36.76N–.05	140.6E–.10	13–9	3.8b,3.6		
JMA	III	19 11 42 08.1	36.78N	140.57E	6–1	3.2,3.6		

ISC Event type fe.
IDC Error ellipse: s-maj=94.2km s-min=36.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=20.2km s-min=5.1km az=19.1.
JMA Event type fe.

JMA	**III**	**19 11 42 49.8**	**36.71N**	**140.63E**	**9**	**2.6**		
								¶603049934

ISC	**III**	**19 11 48 27.2–1.5**	**36.6N–.20**	**141.8E–.10**	**26**	**3.5b**	**8**	**3-60**
IDC	III	19 11 48 24.1–2.4	36.48N	141.68E	0	3.5,3.5b		**¶17197215**
ISCJB	III	19 11 48 25.4–1.5	36.5N–.20	141.8E–.20	26	3.4b,3.5b		

ISC Event type ke.
ISCJB Event type ke.

JMA	**III**	**19 11 56 24.1**	**36.72N**	**140.63E**	**5–1**	**3.5**		
								¶602674864

JMA Event type fe.

ISC	**III**	**19 12 09 29.4–1.1**	**35.79N–.06**	**140.88E–.10**	**10**		**8**	**0-65**
NIED	III	19 12 09 00	35.80N	140.90E	8	3.8W		**¶602674820**
ISCJB	III	19 12 09 28.1–1.1	35.81N–.06	140.98E–.09	10	3.5b		
JMA	III	19 12 09 29.4–.10	35.79N	140.91E	10–1	3.5		
IDC	III	19 12 09 31.4–3.4	36.47N	140.71E	0	3.8,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ48.00000°,λ-158.00000°. NP2:ϕ_s207.00000°,δ74.00000°,λ-44.00000°. $M_0$5.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=8.4km az=17.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=96.7km s-min=31.2km az=160.0.

ISC	**III**	**19 12 15 03.0–3.6**	**36.8N–.10**	**141.4E–.20**	**42–21**	**3.4b**	**15**	**1-46**
IDC	III	19 12 14 48.7–9.1	36.30N	142.52E	0	3.5,3.5		**¶17197223**
JMA	III	19 12 15 03.5–.10	36.76N	141.33E	45–1	3.4,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=163.8km s-min=70.5km az=144.0.
JMA Event type fe.

JMA	**III**	**19 12 15 33.4**	**36.73N**	**140.62E**	**4–1**	**3.2**		
								¶603145374

JMA Event type fe.

JMA	**III**	**19 12 35 47.6**	**36.74N**	**140.63E**	**7–1**	**2.9**		
								¶603145375

JMA Event type fe.

ISC	**III**	**19 12 56 34.5–1.6**	**38.57N–.08**	**142.9E–.10**	**23**	**3.5b**	**14**	**1-59**
IDC	III	19 12 56 29.8–2.7	38.58N	143.18E	0	3.5,3.4		**¶17197236**
JMA	III	19 12 56 31.5–.20	38.61N	142.90E	2–3	4.0,3.4		
ISCJB	III	19 12 56 32.3–1.2	38.51N–.07	143.0E–.10	23	3.4b,3.4		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**19 12 57 44.6–1.3**	**38.31N–.07**	**142.2E–.20**	**39–7**	**3.6b**	**21**	**1-68**
IDC	III	19 12 57 37.0–2.0	38.39N	142.76E	0	3.8,3.7b		**¶17197237**
JMA	III	19 12 57 43.4–.20	38.32N	142.21E	37–3	3.8,3.7b		
ISCJB	III	19 12 57 43.6–1.4	38.30N–.06	142.2E–.10	49–10	3.6b,3.7b		

ISC Event type ke.
ISCJB Event type fe.

ISC	**III**	**19 13 00 07.6–2.0**	**37.13N–.06**	**141.97E–.06**	**11–12**	**3.5b**	**26**	**1-64**
IDC	III	19 13 00 05.6–1.1	37.08N	142.27E	0	3.7,3.6		**¶17197239**
JMA	III	19 13 00 11.6–.20	37.20N	141.81E	46–3	4.0,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=18.9km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**19 13 13 48.7–1.1**	**36.72N–.05**	**140.65E–.06**	**24–7**		**18**	**0-57**
IDC	III	19 13 13 47.0–2.9	36.45N	140.84E	0	3.7L,3.6		**¶600557443**
ISCJB	III	19 13 13 50.0–.73	36.77N–.04	140.6E–.10	11–8	3.1b,3.6		
JMA	III	19 13 13 50.3	36.78N	140.56E	7–1	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=68.6km s-min=32.8km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=4.9km az=18.5.
JMA Event type fe.

JMA	**III**	**19 13 14 05.9–.10**	**38.59N**	**141.99E**	**31–2**	**3.8**		
								¶602674084

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**19 13 28 35.6**	**36.75N**	**140.60E**	**7**	**2.8**		
								¶603145376

JMA Event type fe.

ISC	**III**	**19 13 39 15.5–1.1**	**36.28N–.05**	**140.48E–.06**	**48–8**	**3.4b**	**24**	**0-51**
NIED	III	19 13 39 00	36.20N	140.50E	80	3.7W		**¶17197243**
IDC	III	19 13 39 09.9–1.8	36.48N	140.55E	0	3.5,3.5		
ISCJB	III	19 13 39 14.6–.69	36.26N–.04	140.47E–.06	57–5	3.3b,3.5		
JMA	III	19 13 39 15.3–.10	36.25N	140.46E	51–1	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ44.00000°,λ-22.00000°. NP2:ϕ_s272.00000°,δ75.00000°,λ-131.00000°. $M_0$4.16000×10^{14}
IDC Error ellipse: s-maj=33.7km s-min=27.5km az=147.0.

ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.6km az=20.3.
JMA Event type fe.
ISC III 19 13 43 15.1–.85 35.82N–.07 141.65E–.08 26 3.7b 17 1-78
IDC III 19 13 43 11.1–.85 35.73N 141.94E 0 3.8,3.6 **¶602674039**
ISCJB III 19 13 43 12.9–.69 35.72N–.06 141.83E–.07 26 3.6b,3.6
JMA III 19 13 43 13.9–.30 35.88N 141.79E 33 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=18.8km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.0km az=156.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 19 13 48 13.1–5.8 38.51N 142.10E 0 3.5,3.2
¶17197245
IDC Error ellipse: s-maj=531.2km s-min=28.4km az=112.0.
ISC III 19 13 52 08.7–.66 35.43N–.04 141.12E–.07 33 3.9b,3.6s 31 0-84
NIED III 19 13 52 00 35.40N 141.20E 32 4.0W,3.6s **¶17197249**
JMA III 19 13 52 07.6–.20 35.44N 141.20E 31–2 3.6,3.6s
ISCJB III 19 13 52 07.0–.51 35.40N–.04 141.26E–.06 33 3.8b,3.6s
IDC III 19 13 52 10.6–2.3 35.46N 141.07E 43–21 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s117.00000°,δ18.00000°,λ1.00000°. NP2:ϕ_s26.00000°,δ90.00000°,λ108.00000°. $M_0$1.19000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=3.1.
IDC Error ellipse: s-maj=22.4km s-min=14.3km az=86.0.
JMA III 19 13 58 53.0–.10 36.81N 141.12E 48–1 3.6
NIED III 19 13 58 00 36.80N 141.10E 59 3.5W **¶600557502**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ32.00000°,λ142.00000°. NP2:ϕ_s172.00000°,δ71.00000°,λ64.00000°. $M_0$2.30000×10^{14}
ISC III 19 14 28 48.7–2.0 36.20N–.06 141.4E–.20 31 8 1-46
IDC III 19 14 28 43.3–5.3 36.77N 142.11E 0 3.5,3.4L **¶602673652**
JMA III 19 14 28 45.9–.40 36.54N 141.88E 84 3.0,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=91.7km s-min=38.8km az=93.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 19 15 26 43.4–1.2 37.53N–.04 141.60E–.07 52–11 4.1b 63 1-146
NIED III 19 15 26 00 37.50N 141.50E 56 4.0W **¶16461984**
IDC III 19 15 26 36.5–.58 37.51N 141.42E 0 4.2,4.0
NEIC III 19 15 26 42.2–.48 37.59N 141.52E 35 4.2b,4.0
ISCJB III 19 15 26 43.1–.60 37.50N–.03 141.51E–.07 67–4 3.9b,4.0
JMA III 19 15 26 44.3–.10 37.55N 141.49E 53–2 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ40.00000°,λ92.00000°. NP2:ϕ_s44.00000°,δ50.00000°,λ88.00000°. $M_0$1.24000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=14.7km az=86.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.4km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.9km az=8.6.
JMA Event type fe.
JMA III 19 15 41 15.3–.10 36.85N 141.12E 49–1 3.6
¶602673515
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 16 01 42.7–.20 38.16N 142.98E 0 4.0
¶602673477
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 19 16 23 35.4–1.8 36.2N–.10 140.6E–.10 51–9 3.5b 18 0-46
IDC III 19 16 23 19.2–6.2 34.68N 140.88E 0 3.8,3.7 **¶17197271**
JMA III 19 16 23 35.9 36.25N 140.49E 53–1 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=101.8km s-min=66.9km az=132.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ87.00000°,λ86.00000°. NP2:ϕ_s250.00000°,δ5.00000°,λ146.00000°. Principal axes: T Plg48.0000°,Azm279.0000°; N Plg4.0000°,Azm14.0000°; P Plg42.0000° ,Azm108.0000°
ISC III 19 16 28 42.3–.79 39.89N–.06 142.40E–.07 31 4.0b 30 1-73
IDC III 19 16 28 37.7–.96 39.87N 142.40E 0 4.0,3.9 **¶16479511**
ISCJB III 19 16 28 40.1–.55 39.88N–.05 142.55E–.07 31 3.9b,3.9
JMA III 19 16 28 43.5–.10 39.94N 142.39E 33–2 3.7,3.9
NEIC III 19 16 28 46.6–.86 39.88N 142.37E 72–8 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=19.0km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.5km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.0km az=114.0.
ISC III 19 16 38 16.9–1.1 36.74N–.03 140.52E–.04 7–7 4.2b 55 0-147
IDC III 19 16 38 15.9–.52 36.71N 140.55E 0 4.3,4.2 **¶602673430**
ISCJB III 19 16 38 16.7–.72 36.69N–.03 140.71E–.05 17–4 4.1b,4.2
JMA III 19 16 38 17.2 36.71N 140.64E 5–1 4.1,4.2
NEIC III 19 16 38 23.0–1.5 36.63N 140.49E 56–13 4.3b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=14.0km s-min=12.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=34.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s299.00000°,δ49.00000°,λ-114.00000°. NP2:ϕ_s153.00000°,δ47.00000°,λ-65.00000°. Principal axes: T Plg1.0000°,Azm46.0000°; N Plg18.0000°,Azm316.0000°; P Plg72.0000° ,Azm139.0000°
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=10.8km az=109.0. Recorded [3 JMA] in Ibaraki.
JMA III 19 16 38 30.9 36.71N 140.64E 4–1 4.1
¶602673428
JMA III 19 16 48 43.6 36.74N 140.57E 10–1 3.0
¶602673400
JMA Event type fe.
JMA III 19 16 49 50.0–.10 36.32N 140.98E 40–1 3.8
NIED III 19 16 49 00 36.30N 141.00E 47 3.9W **¶600557709**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ26.00000°,λ-108.00000°. NP2:ϕ_s310.00000°,δ65.00000°,λ-81.00000°. $M_0$6.85000×10^{14}
ISC III 19 16 57 24.2–1.7 35.15N–.06 141.02E–.08 27–12 3.7b 23 0-59
IDC III 19 16 57 19.3–1.2 35.13N 141.30E 0 3.7b,3.7 **¶600557717**
JMA III 19 16 57 21.9–.20 35.24N 141.23E 42–4 3.2,3.7
ISCJB III 19 16 57 24.0–1.0 35.12N–.06 141.08E–.09 46–9 3.6b,2.6s
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 17 00 04.6–1.0 38.4N–.20 142.2E–.20 41 3.6b 8 28-76
IDC III 19 16 59 58.7–.83 38.42N 142.27E 0 4.0,3.7 **¶17197278**
ISCJB III 19 17 00 02.5–.79 38.4N–.10 142.2E–.20 41 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 19 17 02 01.6–.10 36.01N 141.05E 28–2 3.5
¶602673387
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 17 04 07.4–.68 39.21N–.04 142.33E–.04 49–5 4.7b,4.2s 295 1-89
IDC III 19 17 04 00.7–.61 39.11N 142.26E 0 4.4,4.3 **¶17197279**
NIED III 19 17 04 00 39.20N 142.40E 35 4.6W,4.3
JMA III 19 17 04 04.7–.10 39.17N 142.35E 32–1 4.5,4.3
MOS III 19 17 04 04.5–1.0 39.23N 142.24E 33 5.0b,4.3s
ISCJB III 19 17 04 05.9–.46 39.17N–.03 142.27E–.03 47–3 4.6b,4.1s
BJI III 19 17 04 06.9 39.18N 142.26E 63 5.0b,4.5b
NEIC III 19 17 04 08.7–.56 39.14N 142.21E 59–5 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.7km az=131.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ14.00000°,λ-141.00000°. NP2:ϕ_s198.00000°,δ81.00000°,λ-79.00000°. $M_0$8.13000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=4.8km az=99.9.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=138.5.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=136.0.
ISC III 19 17 26 19.0–1.3 35.76N–.05 141.07E–.08 32–9 3.5b 22 0-87
IDC III 19 17 26 13.8–.96 35.63N 141.12E 0 3.7,3.7b **¶17197283**
ISCJB III 19 17 26 18.3–.91 35.75N–.05 141.1E–.10 42–7 4.0s,3.6b
JMA III 19 17 26 19.1–.10 35.78N 141.04E 35–1 3.2,3.6b

ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=18.3km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=7.6km az=170.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 17 31 58.9–1.6 37.78N–.08 141.9E–.10 30 3.6b 12 1-62
IDC III 19 17 31 51.3–2.4 38.15N 142.87E 0 3.5,3.4b **¶17197285**
JMA III 19 17 31 58.0–.20 37.77N 141.91E 23–3 3.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=66.4km s-min=26.0km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 17 42 29.9–1.6 35.87N–.08 142.0E–.10 23 15 1-56
IDC III 19 17 42 23.2–3.8 36.30N 142.60E 0 3.2,3.2L **¶17197289**
ISCJB III 19 17 42 30.1–1.5 35.88N–.07 142.0E–.10 23 3.1b,3.2L
JMA III 19 17 42 32.9–.30 35.92N 141.81E 52–5 2.9,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=94.1km s-min=39.1km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=10.3km az=175.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 19 17 43 45.2–.99 36.89N–.03 140.51E–.05 10 13 0-61
ISCJB III 19 17 43 44.6–.59 36.89N–.03 140.54E–.06 10 3.4b **¶602673240**
JMA III 19 17 43 44.6 36.90N 140.51E 5–1 2.3
IDC III 19 17 43 46.0–2.3 36.84N 140.39E 0 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=10.3.
IDC Error ellipse: s-maj=31.1km s-min=17.4km az=12.0.
JMA III 19 17 53 14.1–.20 37.71N 141.91E 13–2 3.5
¶602673218
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 19 18 02 03.1–.20 39.49N 142.77E 14–3 3.7
¶603049939
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 19 18 09 55.2–.40 38.28N 142.10E 43 3.6
¶603145377
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 19 18 10 42.6–.77 39.69N–.04 142.45E–.04 24–4 4.5b,3.8s 162 1-149
NIED III 19 18 10 00 39.70N 142.30E 41 4.5W,3.8s **¶16461963**
BJI III 19 18 10 38.3 39.30N 143.20E 72 4.8b,4.6b
NEIC III 19 18 10 40.7–1.1 39.23N 142.92E 45–8 4.6b,4.6b
ISCJB III 19 18 10 44.9–.65 39.71N–.03 142.29E–.06 54–4 4.4b,3.6s
JMA III 19 18 10 45.3–.10 39.75N 142.27E 43–1 4.3,3.6s
IDC III 19 18 10 48.0–2.2 39.71N 142.20E 67–20 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ18.00000°,λ79.00000°. NP2:ϕ_s25.00000°,δ72.00000°,λ93.00000°. $M_0$5.86000×10^{15}
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.4km s-min=11.7km az=109.0.
JMA III 19 18 34 25.0–.20 38.95N 142.43E 19–2 3.6
¶603049940
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 19 01 33.8–2.1 36.85N–.05 141.21E–.07 2–13 3.4b 23 0-90
NIED III 19 19 01 00 36.90N 141.20E 5 3.9W **¶17197301**
JMA III 19 19 01 37.0–.10 36.93N 141.18E 33–1 3.8
IDC III 19 19 01 41.3–4.4 36.81N 141.26E 60–40 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ9.00000°,λ96.00000°. NP2: ϕ_s219.00000°,δ81.00000°,λ89.00000°. $M_0$8.76000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=25.4km az=97.0.
ISC III 19 19 12 50.4–2.6 36.8N–.10 140.50E–.08 4–16 3.4b 14 0-57
IDC III 19 19 12 49.9–1.9 36.70N 140.54E 0 3.4,3.2 **¶17197304**
JMA III 19 19 12 50.1 36.80N 140.57E 7–1 3.4,3.2
ISCJB III 19 19 12 50.1–1.3 36.76N–.06 140.61E–.10 13–7 3.2b,3.2
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 19 19 18 39.5–1.1 35.61N–.05 140.22E–.07 67–8 3.4b 21 0-59
ISCJB III 19 19 18 38.4–.78 35.60N–.05 140.23E–.07 73–5 3.2b **¶17197306**
JMA III 19 19 18 39.3–.20 35.66N 140.20E 65–2 2.1
IDC III 19 19 18 42.6–3.9 35.28N 139.55E 69–38 3.2,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.8km az=4.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=78.6km s-min=34.8km az=65.0.
ISC III 19 19 30 58.8–2.0 37.38N–.05 141.4E–.10 29–11 3.4b 17 1-75
ISCJB III 19 19 30 56.6–1.5 37.33N–.06 141.54E–.10 26–8 3.4b **¶17197307**
IDC III 19 19 30 58.4–.93 37.03N 140.20E 0 3.7,3.5
JMA III 19 19 30 59.6–.10 37.38N 141.35E 27–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=8.9km az=163.3.
IDC Error ellipse: s-maj=27.8km s-min=21.3km az=90.0.
JMA Event type fe.
IDC III 19 19 31 27.4–1.9 37.35N 141.76E 0 3.7,3.6b
¶17197310
IDC Error ellipse: s-maj=49.5km s-min=27.3km az=73.0.
JMA III 19 19 34 30.9–.10 39.36N 142.36E 29–1 3.6
¶602673846
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 19 49 48.0–1.9 37.22N–.06 141.67E–.08 20–6 3.4b 18 1-57
IDC III 19 19 49 45.9–2.8 37.12N 141.48E 0 3.6,3.5b **¶17197314**
JMA III 19 19 49 51.9–.10 37.29N 141.56E 43–2 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=68.4km s-min=32.4km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 19 54 16.9–1.3 36.87N–.04 140.57E–.06 1–11 3.4b 21 0-61
JMA III 19 19 54 16.9 36.86N 140.62E 6–1 2.8 **¶17197315**
ISCJB III 19 19 54 16.8–.65 36.85N–.03 140.62E–.05 3–5 3.3b
IDC III 19 19 54 16.4–1.2 36.59N 140.74E 0 3.6,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.5km az=16.9.
IDC Error ellipse: s-maj=26.8km s-min=22.5km az=127.0.
JMA III 19 20 05 05.6–.10 37.16N 141.19E 21–1 3.5
¶602673752
JMA Event type fe.
ISC III 19 20 06 22.4–.70 36.84N–.04 141.18E–.05 43–6 4.5b,3.6s 163 0-147
NIED III 19 20 06 00 36.80N 141.10E 68 4.5W,3.6s **¶16339534**
MOS III 19 20 06 20.1–1.2 36.89N 141.12E 33 4.6b,3.6s
ISCJB III 19 20 06 21.9–.45 36.84N–.03 141.17E–.04 54–3 4.4b,3.7s
JMA III 19 20 06 23.6–.10 36.84N 141.06E 50–1 4.3,3.7s
IDC III 19 20 06 24.9–2.2 36.88N 141.12E 65–19 4.2,4.1
NEIC III 19 20 06 25.4–.73 36.85N 141.05E 70–6 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ17.00000°,λ143.00000°. NP2:ϕ_s22.00000°,δ80.00000°,λ77.00000°. $M_0$6.03000×10^{15}
MOS Error ellipse: s-maj=8.3km s-min=6.5km az=104.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=21.6.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=12.8km az=86.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.4km az=99.0.
ISC III 19 20 10 33.4–1.5 36.70N–.06 141.0E–.10 45–11 3.5b 16 0-60
IDC III 19 20 10 26.0–2.7 36.91N 140.63E 0 3.7,3.5 **¶600558016**
ISCJB III 19 20 10 32.5–1.0 36.69N–.05 141.0E–.10 54–8 3.4b,3.5
JMA III 19 20 10 33.9–.10 36.72N 140.95E 50–1 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=29.0km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=7.3km az=24.3.
JMA III 19 20 25 05.5–.20 38.10N 142.06E 42–4 3.9
¶602673711
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 19 20 26 55.4–1.6 35.43N 141.35E 0 3.8,3.7

¶17197321
IDC Error ellipse: s-maj=45.3km s-min=29.4km az=87.0.
ISC III 19 20 45 23.1–2.2 38.73N–.05 142.96E–.09 17–11 22 1-59
IDC III 19 20 45 17.7–3.0 39.23N 143.86E 0 3.5L,3.4 ¶17197324
JMA III 19 20 45 30.0–.10 38.93N 142.62E 19–2 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=70.0km s-min=37.1km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 20 48 26.7–.80 37.65N–.04 141.91E–.04 45–7 4.6b,3.5s 256 1-146
NIED III 19 20 48 00 37.70N 141.80E 50 4.4W,3.5s ¶16339537
MOS III 19 20 48 24.2–.95 37.70N 141.78E 33 4.8b,3.5s
ISCJB III 19 20 48 26.3–.44 37.68N–.03 141.80E–.03 55–3 4.5b,3.6s
JMA III 19 20 48 27.5–.10 37.69N 141.73E 45–2 4.6,3.6s
IDC III 19 20 48 29.0–1.9 37.71N 141.66E 60–17 4.4,4.2
NEIC III 19 20 48 28.8–.56 37.68N 141.70E 63–5 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S26.00000°,δ41.00000°,λ124.00000°. NP2:ϕ_S165.00000°,δ57.00000°,λ64.00000°. $M_0$4.07000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=94.7.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=43.7.
JMA Event type fe.
IDC Error ellipse: s-maj=13.3km s-min=10.9km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=137.0. Recorded [3 JMA] in Fukushima.
JMA III 19 20 56 47.2–.20 38.96N 142.43E 28–3 3.5
¶603145378
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 19 21 02 12.7–1.5 37.12N–.07 141.1E–.10 35 3.4b 16 0-57
IDC III 19 21 02 06.0–2.3 37.27N 141.42E 0 3.3,3.3b ¶602672927
ISCJB III 19 21 02 10.3–1.1 37.10N–.07 141.3E–.10 35 3.2b,3.3b
JMA III 19 21 02 14.3–.10 37.14N 140.95E 43–1 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=59.0km s-min=26.8km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=9.1km az=165.5.
JMA Event type fe.
ISC III 19 21 10 50.7–2.1 36.70N–.07 141.13E–.09 13–12 3.4b 16 0-60
NIED III 19 21 10 00 36.70N 141.00E 8 3.4W ¶17197329
ISCJB III 19 21 10 47.5–1.4 36.66N–.06 141.30E–.06 4–7 3.4b
IDC III 19 21 10 48.6–1.3 36.69N 141.21E 0 3.6,3.3
JMA III 19 21 10 52.1 36.73N 141.04E 20–1 3.7,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S337.00000°,δ50.00000°,λ-141.00000°. NP2:ϕ_S219.00000°,δ61.00000°,λ-47.00000°. $M_0$1.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=8.5km az=167.8.
IDC Error ellipse: s-maj=27.5km s-min=25.4km az=83.0.
JMA Event type fe.
ISC III 19 21 20 10.9–.55 38.56N–.06 142.52E–.05 24 4.5b 100 1-117
NIED III 19 21 20 00 38.60N 142.50E 20 4.1W ¶16339539
ISCJB III 19 21 20 08.8–.37 38.57N–.04 142.62E–.04 24 4.3b,3.1s
JMA III 19 21 20 10.5–.20 38.55N 142.47E 26–3 4.2,3.1s
MOS III 19 21 20 10.9–1.2 38.59N 142.68E 44 4.7b,3.1s
NEIC III 19 21 20 13.4–.88 38.56N 142.55E 45–7 4.4b,3.1s
IDC III 19 21 20 14.9–2.5 38.51N 142.49E 58–22 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S126.00000°,δ40.00000°,λ-128.00000°. NP2:ϕ_S352.00000°,δ60.00000°,λ-62.00000°. $M_0$1.71000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.7km az=156.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=6.2km az=99.6.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.0km az=122.0.
IDC Error ellipse: s-maj=17.2km s-min=13.3km az=111.0.
ISC III 19 21 22 34.4–.87 38.58N–.08 142.49E–.09 24 4.0b 28 1-82
NIED III 19 21 22 00 38.60N 142.40E 23 3.8W ¶16479306
IDC III 19 21 22 29.4–1.3 38.59N 142.77E 0 4.0,3.9b
ISCJB III 19 21 22 32.1–.61 38.56N–.06 142.59E–.07 24 3.9b,3.9b
JMA III 19 21 22 34.1–.20 38.57N 142.43E 17–2 4.4,3.9b
NEIC III 19 21 22 38.2–1.5 38.51N 142.38E 58–11 4.2b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S127.00000°,δ42.00000°,λ-129.00000°. NP2:ϕ_S354.00000°,δ59.00000°,λ-60.00000°. $M_0$5.60000×10^{14}
IDC Error ellipse: s-maj=40.0km s-min=19.7km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=7.5km az=15.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=8.0km az=92.0.
ISC III 19 22 01 16.4–2.4 36.29N–.06 141.9E–.10 29–15 3.4b 20 1-47
IDC III 19 22 01 09.7–5.4 36.28N 142.38E 0 3.4,3.4 ¶17197340
ISCJB III 19 22 01 16.4–1.3 36.29N–.05 141.9E–.10 42–13 3.3b,3.4
JMA III 19 22 01 17.9–.20 36.36N 141.75E 51 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=95.3km s-min=41.1km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=8.3km az=178.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 22 10 23.2–1.1 36.63N–.05 141.08E–.10 39–4 3.5b 22 0-57
NIED III 19 22 10 00 36.70N 141.00E 47 3.7W ¶17197342
ISCJB III 19 22 10 21.7–.94 36.61N–.04 141.10E–.08 44–8 3.5b
JMA III 19 22 10 23.1–.10 36.66N 140.96E 49–1 3.7
IDC III 19 22 10 24.4–3.1 36.55N 141.05E 54–30 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S119.00000°,δ36.00000°,λ6.00000°. NP2:ϕ_S24.00000°,δ86.00000°,λ126.00000°. $M_0$3.46000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.9km az=6.8.
JMA Event type fe.
IDC Error ellipse: s-maj=26.0km s-min=12.4km az=63.0.
ISC III 19 22 13 20.4–2.4 36.36N–.08 140.95E–.09 7–12 3.8b 19 0-91
NIED III 19 22 13 00 36.40N 141.10E 5 3.5W ¶17197343
JMA III 19 22 13 18.9–.10 36.43N 141.08E 22–1 3.6
ISCJB III 19 22 13 19.9–1.5 36.43N–.05 140.97E–.07 2–7 3.6b
IDC III 19 22 13 19.5–.91 36.00N 140.94E 0 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S237.00000°,δ65.00000°,λ-26.00000°. NP2:ϕ_S339.00000°,δ67.00000°,λ-152.00000°. $M_0$2.05000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.9km az=40.3.
IDC Error ellipse: s-maj=23.1km s-min=19.3km az=62.0.
ISC III 19 22 37 12.2–.54 38.13N–.06 142.22E–.06 30 4.2b 68 1-146
NIED III 19 22 37 00 38.20N 142.20E 41 4.1W ¶600558220
ISCJB III 19 22 37 10.2–.39 38.10N–.04 142.30E–.05 30 4.1b,3.0s
JMA III 19 22 37 12.1–.20 38.19N 142.21E 41–4 4.1,3.0s
IDC III 19 22 37 14.2–1.7 38.12N 142.20E 47–16 4.1,4.0
NEIC III 19 22 37 15.7–.59 38.20N 142.18E 59–4 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S210.00000°,δ42.00000°,λ-115.00000°. NP2:ϕ_S62.00000°,δ53.00000°,λ-70.00000°. $M_0$1.37000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=146.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.1km az=100.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=131.0.
ISC III 19 22 42 11.8–2.0 37.31N–.06 141.95E–.08 17–11 3.3b 18 1-57
NIED III 19 22 42 00 37.30N 141.80E 32 3.5W ¶600558225
IDC III 19 22 42 09.3–1.4 37.18N 141.98E 0 3.5,3.4b
ISCJB III 19 22 42 12.4–1.6 37.29N–.07 142.00E–.08 25–10 3.3b,3.4b
JMA III 19 22 42 15.3–.20 37.33N 141.84E 41–4 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S222.00000°,δ41.00000°,λ-139.00000°. NP2:ϕ_S99.00000°,δ64.00000°,λ-57.00000°. $M_0$1.75000×10^{14}
IDC Error ellipse: s-maj=31.0km s-min=29.1km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=10.3km az=28.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 22 47 41.5–1.8 37.32N–.07 141.9E–.10 24 13 1-57
IDC III 19 22 47 26.4–3.1 38.84N 142.52E 0 3.3,3.2b ¶17197347
ISCJB III 19 22 47 40.6–1.4 37.33N–.07 142.0E–.10 24 3.1b,3.2b
JMA III 19 22 47 42.9–.20 37.32N 141.84E 39–4 3.3,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=72.4km s-min=40.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.3km az=157.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 19 22 48 39.6–.20 37.33N 141.85E 37–4 3.6
NIED III 19 22 48 00 37.30N 141.80E 41 3.4W ¶600558243
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S166.00000°,δ15.00000°,λ151.00000°. NP2:ϕ_S284.00000°,δ83.00000°,λ77.00000°. $M_0$1.67000×10^{14}
ISC III 19 23 03 46.6–1.1 36.73N–.05 140.64E–.07 13–7 3.5b 17 0-57
NIED III 19 23 03 00 36.70N 140.60E 5 3.4W ¶17197348
IDC III 19 23 03 43.7–2.4 36.90N 140.92E 0 3.7,3.6b
ISCJB III 19 23 03 46.0–1.0 36.70N–.04 140.75E–.08 19–5 3.4b,2.7s
JMA III 19 23 03 47.4 36.74N 140.63E 7–1 3.5,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S298.00000°,δ35.00000°,λ-95.00000°. NP2:ϕ_S124.00000°,δ56.00000°,λ-87.00000°. $M_0$1.63000×10^{14}
IDC Error ellipse: s-maj=57.6km s-min=27.8km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.9km az=19.1.
JMA Event type fe.
JMA III 19 23 24 47.1–.10 38.66N 142.17E 39–2 3.8
NIED III 19 23 24 00 38.70N 142.20E 47 3.7W ¶603145379
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S139.00000°,δ24.00000°,λ8.00000°. NP2:ϕ_S41.00000°,δ87.00000°,λ114.00000°. $M_0$3.60000×10^{14}
JMA III 19 23 28 24.2–.10 36.65N 140.97E 45–1 2.7
¶16479315
JMA Event type fe.
ISC III 19 23 32 16.3–1.0 38.61N–.08 142.20E–.10 41 3.6b 21 1-78
NIED III 19 23 32 00 38.60N 141.90E 50 3.8W ¶17197350
IDC III 19 23 32 09.8–1.0 38.74N 142.58E 0 3.8,3.7
ISCJB III 19 23 32 14.2–.80 38.66N–.06 142.35E–.09 41 3.6b,3.7
JMA III 19 23 32 19.0–.10 38.61N 141.88E 50–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S234.00000°,δ18.00000°,λ128.00000°. NP2:ϕ_S15.00000°,δ76.00000°,λ79.00000°. $M_0$6.33000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=19.6km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=8.6km az=148.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 19 23 37 11.1–.45 38.62N–.04 141.95E–.04 44–3 4.9b,3.8s 561 1-155
NIED III 19 23 37 00 38.60N 141.90E 50 4.7W,3.8s ¶16461970
MOS III 19 23 37 09.9–.85 38.87N 141.76E 33 5.1b,3.8s
BJI III 19 23 37 10.0 38.61N 141.95E 60 4.9b,4.7b
JMA III 19 23 37 11.7–.10 38.61N 141.89E 51–1 4.7,4.7b
ISCJB III 19 23 37 11.8–.33 38.67N–.02 141.80E–.03 58–2 4.8b,3.8s
NEIC III 19 23 37 12.4–.28 38.67N 141.79E 49–2 4.9b,3.8s
IDC III 19 23 37 13.0–1.9 38.63N 141.83E 60–16 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S193.00000°,δ37.00000°,λ49.00000°. NP2:ϕ_S60.00000°,δ63.00000°,λ116.00000°. $M_0$1.48000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=97.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=153.3.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=152.0.
IDC Error ellipse: s-maj=11.1km s-min=10.5km az=122.0.
ISC III 19 23 43 18.4–1.2 35.97N–.07 141.3E–.10 31 3.8b 18 0-75
IDC III 19 23 43 12.6–1.3 36.06N 141.62E 0 3.9,3.8 ¶16461990
ISCJB III 19 23 43 15.7–.84 35.96N–.06 141.49E–.09 31 3.8b,3.8
JMA III 19 23 43 22.4–.10 35.89N 140.81E 40–1 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=41.4km s-min=17.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=9.1km az=175.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 19 23 47 13.1–3.0 36.69N 140.91E 0 3.6,3.5b
¶602672550
IDC Error ellipse: s-maj=68.2km s-min=33.9km az=54.0.
ISC III 19 23 52 45.6–2.2 38.96N–.06 142.0E–.20 60–14 3.7b 18 1-63
IDC III 19 23 52 23.8–2.2 38.65N 144.39E 0 3.8,3.7b ¶17197354
JMA III 19 23 52 45.9–.10 38.95N 142.03E 55–1 3.8,3.7b
ISCJB III 19 23 52 45.2–1.4 38.95N–.05 142.0E–.20 70–8 3.6b,3.7b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 20 00 13 16.1–1.0 38.10N–.10 142.95E–.08 18 3.9b 22 2-68
ISCJB III 20 00 13 13.8–.76 38.06N–.07 143.12E–.08 18 3.8b ¶16479601
IDC III 20 00 13 13.2–1.3 38.05N 142.97E 0 3.8b,3.8
JMA III 20 00 13 14.2–.50 38.19N 142.97E 1–5 4.1,3.8
NEIC III 20 00 13 18.9–2.6 38.08N 142.93E 40–23 4.0b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=8.0km az=152.7.
IDC Error ellipse: s-maj=35.4km s-min=19.8km az=77.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=16.7km az=93.0.
ISC III 20 00 58 44.0–.75 38.24N–.06 142.04E–.08 35 3.9b 37 1-78
ISCJB III 20 00 58 41.7–.56 38.14N–.05 142.18E–.07 35 4.2s,3.8b ¶602678453
JMA III 20 00 58 45.3–.10 38.26N 141.92E 46–2 3.9,3.8b
NEIC III 20 00 58 48.4–1.1 38.28N 141.93E 76–10 4.1b,3.8b
IDC III 20 00 58 48.3–2.8 38.28N 141.92E 75–24 4.1s,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.2km az=26.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.9km az=114.0.
IDC Error ellipse: s-maj=22.4km s-min=15.3km az=94.0.
ISC III 20 01 01 05.9–.99 39.31N–.08 142.50E–.08 27 4.2b 35 1-145
NIED III 20 01 01 00 39.30N 142.60E 26 3.9W ¶16479608
ISCJB III 20 01 01 03.0–.68 39.32N–.06 142.73E–.08 27 4.0b
JMA III 20 01 01 04.4–.10 39.26N 142.60E 24–1 3.9
IDC III 20 01 01 06.9–.84 39.84N 141.73E 0 4.0,3.9
NEIC III 20 01 01 12.3–1.0 39.75N 141.71E 38–9 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S219.00000°,δ4.00000°,λ111.00000°. NP2:ϕ_S18.00000°,δ86.00000°,λ89.00000°. $M_0$8.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=8.1km az=19.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=17.4km az=96.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=124.0.
ISC III 20 01 05 28.7–.91 39.28N–.04 142.31E–.04 30–5 4.5b 172 1-145
NIED III 20 01 05 00 39.30N 142.30E 47 4.6W ¶602443746
NEIC III 20 01 05 27.5–2.0 39.27N 142.19E 20–12 4.6b
ISCJB III 20 01 05 29.3–.54 39.29N–.03 142.30E–.04 48–4 4.4b
JMA III 20 01 05 30.5–.10 39.29N 142.24E 43–1 4.2
IDC III 20 01 05 32.2–2.1 39.28N 142.21E 58–19 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S178.00000°,δ20.00000°,λ69.00000°. NP2:ϕ_S21.00000°,δ71.00000°,λ98.00000°. $M_0$1.04000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=124.0. Recorded [3 JMA] in Iwate.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=37.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=12.4km az=99.0.
ISC III 20 01 09 43.1–.36 39.19N–.03 142.63E–.03 25–2 5.3b,4.9s 1015 1-155
NIED III 20 01 09 00 39.20N 142.60E 23 5.0W,4.9s ¶16339553
BJI III 20 01 09 41.8 39.13N 142.54E 33 5.3b,5.2b
JMA III 20 01 09 41.6–.20 39.19N 142.64E 19–1 5.2,5.2b
GCMT III 20 01 09 43.8–.20 39.32N 142.66E 34–0 5.1W,5.2b
NEIC III 20 01 09 43.8–1.1 39.14N 142.40E 28–7 5.2b,5.2b
MOS III 20 01 09 43.0–.93 39.28N 142.52E 33 5.6b,4.7s
ISCJB III 20 01 09 44.3–.36 39.16N–.02 142.50E–.02 43–3 5.2b,4.8s
IDC III 20 01 09 44.4–3.5 39.15N 142.55E 32–25 4.9,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S141.00000°,δ18.00000°,λ41.00000°. NP2:ϕ_S11.00000°,δ78.00000°,λ104.00000°. $M_0$3.61000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c67; s95,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.16 $M_{\theta\theta}$-0.04±.10; $M_{\phi\phi}$-3.34±.10; $M_{r\theta}$0.91±.12; $M_{\theta\phi}$0.38±.07; $M_{\phi r}$3.35±.13; Best double couple: NP1:ϕ_s8.00000°,δ68.00000°,λ101.00000°. NP2:ϕ_s161.00000°,δ24.00000°,λ64.00000°. Principal axes: T 4.9580,Plg65.0000°,Azm297.0000°; N -0.2380,Plg10.0000°,Azm184.0000°; P -4.7250,Plg22.0000°,Azm90.0000° $M_0$4.84200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=139.0. Recorded [3 JMA] in Aomori and Iwate.
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=100.3.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=141.2.
IDC Error ellipse: s-maj=11.8km s-min=8.8km az=100.0.

JMA	**III**	**20 01 17 45.3–.20**	**37.61N**	**141.81E**	**31–3**	**3.9**			
									¶602678418

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**20 01 24 43.2–.36**	**37.31N–.03**	**141.84E–.03**	**32–2**	**4.9b,4.5s**	**568**	**1-152**	
NIED	III	20 01 24 00	37.30N	141.80E	41	4.9W,4.5s			**¶16339557**
IDC	III	20 01 24 38.5–.39	37.34N	141.82E	0	4.9,4.8L			
BJI	III	20 01 24 39.9	37.39N	142.06E	34	5.1b,4.8s			
ISCJB	III	20 01 24 41.9–.80	37.31N–.02	141.77E–.02	32–5	4.9b,4.4s			
NEIC	III	20 01 24 42.9–1.0	37.30N	141.71E	28–7	5.0b,4.4s			
GCMT	III	20 01 24 42.9–.40	37.45N	141.84E	24–4	5.0W,4.4s			
MOS	III	20 01 24 42.5–.95	37.43N	141.75E	33	5.2b,4.0s			
JMA	III	20 01 24 43.5–.20	37.31N	141.78E	38–3	4.8,4.0s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ14.00000°,λ-139.00000°. NP2:ϕ_s93.00000°,δ81.00000°,λ-80.00000°. $M_0$2.41000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=9.1km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=152.6.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.2km az=133.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c23; s63,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.85±.23 $M_{\theta\theta}$0.83±.15; $M_{\phi\phi}$0.01±.14; $M_{r\theta}$-3.38±.73; $M_{\theta\phi}$0.68±.10; $M_{\phi r}$0.49±.23; Best double couple: NP1:ϕ_s96.00000°,δ84.00000°,λ-78.00000°. NP2:ϕ_s213.00000°,δ14.00000°,λ-152.00000°. Principal axes: T 3.4910,Plg37.0000°,Azm175.0000°; N 0.1770,Plg12.0000°,Azm274.0000°; P -3.6680,Plg50.0000°,Azm19.0000° $M_0$3.57900×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.2km az=104.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**20 01 29 29.3**	**36.70N**	**140.64E**	**6–1**	**2.6**			
									¶602678391
ISC	**III**	**20 01 30 38.9–1.4**	**37.14N–.07**	**141.2E–.10**	**35**	**3.9b**	**15**	**0-74**	
IDC	III	20 01 30 33.3–2.7	37.32N	141.49E	0	4.6,4.6s			**¶602443741**
JMA	III	20 01 30 42.3	37.08N	140.79E	6–1	3.7,4.6s			

ISC Event type ke.
IDC Error ellipse: s-maj=64.2km s-min=23.8km az=165.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ85.00000°,λ45.00000°. NP2:ϕ_s176.00000°,δ45.00000°,λ173.00000°. Principal axes: T Plg34.0000°,Azm144.0000°; N Plg45.0000°,Azm276.0000°; P Plg26.0000°,Azm35.0000°

ISC	**III**	**20 01 30 45.5–.38**	**36.97N–.03**	**141.21E–.03**	**27–2**	**5.5b,5.0s**	**1626**	**0-162**	
NIED	III	20 01 30 00	36.90N	141.30E	14	5.3W,5.0s			**¶602443744**
IDC	III	20 01 30 41.7–.35	36.96N	141.18E	0	5.3,5.3b			
BJI	III	20 01 30 41.7	36.88N	141.42E	29	5.3b,5.3s			
MOS	III	20 01 30 44.6–1.1	37.03N	141.18E	33	5.7b,4.9s			
NEIC	III	20 01 30 45.1–.54	36.95N	141.01E	22–3	5.5b,4.9s			
GCMT	III	20 01 30 45.2–.10	36.98N	141.20E	18–0	5.4W,4.9s			
ISCJB	III	20 01 30 45.8–.36	36.96N–.02	141.05E–.02	36–3	5.4b,5.0s			
JMA	III	20 01 30 45.5–.10	36.94N	141.18E	29–1	5.5,5.0s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ47.00000°,λ-122.00000°. NP2:ϕ_s69.00000°,δ52.00000°,λ-60.00000°. $M_0$9.64000×10^{16}
IDC Error ellipse: s-maj=11.0km s-min=8.7km az=100.0.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=103.3.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=142.0. Recorded [4 JMA] in Fukushima, Ibaraki and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c150; s109,c217; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20±.03 $M_{\theta\theta}$0.61±.02; $M_{\phi\phi}$0.59±.02; $M_{r\theta}$-0.37±.04; $M_{\theta\phi}$0.82±.01; $M_{\phi r}$0.56±.04; Best double couple: NP1:ϕ_s201.00000°,δ54.00000°,λ-123.00000°. NP2:ϕ_s69.00000°,δ48.00000°,λ-53.00000°. Principal axes: T 1.4310,Plg3.0000°,Azm314.0000°; N 0.1050,Plg26.0000°,Azm222.0000°; P -1.5310,Plg63.0000°,Azm50.0000° $M_0$1.48100×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=147.2.
JMA Event type fe.

JMA	**III**	**20 01 47 24.5–.30**	**38.18N**	**142.12E**	**10–3**	**3.8**			
									¶602678694

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**20 01 59 55.6–.20**	**38.73N**	**142.19E**	**36–3**	**3.6**			
									¶602678664

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**20 02 01 09.7–1.3**	**37.19N–.08**	**141.2E–.10**	**35**	**3.2b**	**12**	**0-58**	
IDC	III	20 02 01 04.8–1.5	36.99N	141.40E	0	4.1,4.1s			**¶17197366**
ISCJB	III	20 02 01 08.0–1.1	37.13N–.07	141.26E–.10	35	4.2s,3.2b			
JMA	III	20 02 01 08.3–.10	37.14N	141.23E	29–1	3.2,3.2b			

ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=30.8km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=10.5km az=0.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**20 02 11 28.8–1.5**	**37.76N–.04**	**141.63E–.09**	**46–13**	**3.9b**	**35**	**1-90**	
NIED	III	20 02 11 00	37.80N	141.60E	56	4.1W			**¶16462016**
ISCJB	III	20 02 11 28.0–.96	37.73N–.04	141.65E–.10	54–7	3.9b			
JMA	III	20 02 11 29.0–.10	37.78N	141.58E	48–2	4.1			
IDC	III	20 02 11 31.6–2.2	37.63N	141.54E	75–20	4.0,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ24.00000°,λ39.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ109.00000°. $M_0$1.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=6.2km az=7.8.
JMA Event type fe.
IDC Error ellipse: s-maj=20.8km s-min=12.3km az=80.0.

ISC	**III**	**20 02 17 03.8–1.7**	**36.20N–.04**	**141.33E–.07**	**13–10**	**3.8b**	**34**	**1-75**	
NIED	III	20 02 17 00	36.20N	141.20E	35	3.8W			**¶16479617**
NEIC	III	20 02 17 04.2–3.4	36.19N	141.36E	17–22	4.2b			
JMA	III	20 02 17 07.1–.10	36.21N	141.22E	49–2	3.5			
IDC	III	20 02 17 08.4–2.7	36.10N	141.31E	48–26	3.9L,3.8			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ11.00000°,λ100.00000°. NP2:ϕ_s22.00000°,δ79.00000°,λ88.00000°. $M_0$4.76000×10^{14}
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.9km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=11.1km az=62.0.

ISC	**III**	**20 02 24 32.8–1.1**	**35.89N–.04**	**140.93E–.08**	**32–2**	**3.8b**	**23**	**0-60**	
ISCJB	III	20 02 24 32.8–.91	35.88N–.05	141.0E–.10	50–6	3.8b			**¶17197367**
JMA	III	20 02 24 34.0–.10	35.87N	140.85E	37–1	3.2			
IDC	III	20 02 24 36.3–2.6	35.76N	140.74E	63–22	3.8,3.6			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=6.8km az=167.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=11.6km az=77.0.

JMA	**III**	**20 02 54 44.7–.30**	**37.34N**	**141.79E**	**54**	**3.1**			
									¶603049943

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**20 03 04 55.6–1.2**	**36.76N–.06**	**140.60E–.05**	**8–8**	**3.9b**	**36**	**0-153**	
NIED	III	20 03 04 00	36.70N	140.60E	5	3.8W			**¶602678198**
IDC	III	20 03 04 54.6–.66	36.74N	140.63E	0	3.9,3.8			
ISCJB	III	20 03 04 55.4–.64	36.70N–.04	140.66E–.07	17–4	3.9b,3.8s			
JMA	III	20 03 04 56.5	36.72N	140.63E	5–1	3.6,3.8s			
NEIC	III	20 03 04 59.3–4.1	36.72N	140.60E	32–29	4.3b,3.8s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ23.00000°,λ-145.00000°. NP2:ϕ_s182.00000°,δ77.00000°,λ-71.00000°. $M_0$5.25000×10^{14}
IDC Error ellipse: s-maj=16.1km s-min=12.8km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.8km az=28.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s123.00000°,δ69.00000°,λ-116.00000°. NP2:ϕ_s356.00000°,δ33.00000°,λ-41.00000°. Principal axes: T Plg20.0000°,Azm232.0000°; N Plg24.0000°,Azm133.0000°; P Plg58.0000°,Azm357.0000°
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.8km az=80.0.

ISC	**III**	**20 03 38 30.7–.52**	**35.08N–.04**	**140.68E–.05**	**21–3**	**4.1b**	**47**	**0-146**	
NIED	III	20 03 38 00	35.00N	140.90E	23	3.8W			**¶16479623**
IDC	III	20 03 38 27.6–.65	35.05N	140.61E	0	4.0,3.9			
JMA	III	20 03 38 30.8–.10	35.15N	140.72E	29–3	3.7,3.9			
ISCJB	III	20 03 38 30.3–.54	35.06N–.03	140.71E–.06	33–3	4.0b,3.9			
NEIC	III	20 03 38 31.3–1.9	35.03N	140.55E	24–14	4.3b,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ17.00000°,λ117.00000°. NP2:ϕ_s45.00000°,δ75.00000°,λ82.00000°. $M_0$6.52000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=13.5km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.8km az=171.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.2km az=67.0. Recorded [1 JMA] in Chiba.

ISC	**III**	**20 03 46 14.3–1.9**	**36.16N–.04**	**141.81E–.08**	**1–11**	**3.5b**	**25**	**1-64**	
NIED	III	20 03 46 00	36.20N	141.90E	14	3.9W			**¶17197371**
JMA	III	20 03 46 16.8–.30	36.23N	141.89E	54	3.6			
IDC	III	20 03 46 23.1–3.3	35.87N	141.54E	55–28	3.6,3.5			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ51.00000°,λ145.00000°. NP2:ϕ_s333.00000°,δ63.00000°,λ44.00000°. $M_0$7.24000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=35.3km s-min=17.6km az=77.0.

ISC	**III**	**20 03 48 36.6–1.7**	**36.05N–.10**	**142.0E–.20**	**23**	**3.5b**	**9**	**3-60**	
IDC	III	20 03 48 33.4–1.9	36.07N	141.95E	0	3.6,3.6L			**¶17197372**
ISCJB	III	20 03 48 34.5–1.3	36.05N–.08	142.0E–.20	23	3.4b,3.6L			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**20 03 53 24.0–1.3**	**36.7N–.20**	**141.5E–.10**	**10**	**3.6b**	**6**	**1-57**	
ISCJB	III	20 03 53 21.8–1.2	36.6N–.20	141.7E–.10	10	3.5b			**¶602678086**
IDC	III	20 03 53 22.4–1.3	36.62N	141.68E	0	3.8,3.6			
JMA	III	20 03 53 36.2	36.72N	140.62E	5–1	2.1,3.6			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=26.1km s-min=14.7km az=160.8.
IDC Error ellipse: s-maj=42.5km s-min=24.5km az=117.0.
JMA Event type fe.

ISC	**III**	**20 03 55 32.2–2.1**	**36.76N–.04**	**141.63E–.08**	**1–12**			**21**	**1-57**
NIED	III	20 03 55 00	36.80N	141.80E	26	3.7W			**¶17197374**
IDC	III	20 03 55 31.6–2.8	36.61N	142.05E	0	3.5,3.5L			
ISCJB	III	20 03 55 32.9–1.6	36.82N–.05	141.9E–.10	15–9	3.2b,3.5L			
JMA	III	20 03 55 34.4–.20	36.80N	141.77E	35–4	3.5,3.5L			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ80.00000°,λ-2.00000°. NP2:ϕ_s244.00000°,δ88.00000°,λ-170.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=60.6km s-min=30.6km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.5km az=169.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**20 04 02 39.1–.56**	**39.11N–.05**	**142.37E–.07**	**27**	**4.1b**	**50**	**1-88**	
NIED	III	20 04 02 00	39.10N	142.40E	41	4.0W			**¶16479628**
ISCJB	III	20 04 02 37.4–.39	39.10N–.05	142.47E–.05	27	4.0b			
JMA	III	20 04 02 39.2–.10	39.14N	142.38E	30–1	4.0			
IDC	III	20 04 02 39.5–.76	39.10N	142.39E	29–5	3.9,3.9			
NEIC	III	20 04 02 40.4–1.3	39.06N	142.32E	39–11	4.5b,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ26.00000°,λ-150.00000°. NP2:ϕ_s168.00000°,δ78.00000°,λ-67.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.3km az=164.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.6km s-min=13.7km az=103.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.6km az=158.0.

IDC	**III**	**20 04 07 46.0–3.9**	**36.22N**	**140.82E**	**0**	**3.5,3.3**			
									¶17197375

IDC Error ellipse: s-maj=100.6km s-min=37.0km az=49.0.

IDC	**III**	**20 04 07 59.4–1.9**	**36.03N**	**141.62E**	**0**	**3.8,3.7b**			
									¶17197378

IDC Error ellipse: s-maj=59.2km s-min=26.2km az=66.0.

ISC	**III**	**20 04 15 24.4–4.2**	**38.45N–.06**	**142.19E–.08**	**15–25**	**3.6b**	**21**	**1-89**	
NIED	III	20 04 15 00	38.40N	142.10E	35	3.8W			**¶17197379**
IDC	III	20 04 15 21.6–.98	38.38N	142.32E	0	3.8,3.6			
JMA	III	20 04 15 26.6–.10	38.42N	142.10E	38–2	3.6,3.6			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ43.00000°,λ-138.00000°. NP2:ϕ_s170.00000°,δ62.00000°,λ-55.00000°. $M_0$5.79000×10^{14}
IDC Error ellipse: s-maj=29.9km s-min=23.7km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**20 04 17 40.0–2.0**	**36.72N–.05**	**141.61E–.08**	**23–13**	**3.5b**	**25**	**1-83**	
NIED	III	20 04 17 00	36.80N	141.30E	38	3.8W			**¶17197380**
IDC	III	20 04 17 35.7–1.3	36.72N	141.82E	0	3.9,3.9			
ISCJB	III	20 04 17 40.3–1.4	36.69N–.04	141.56E–.06	33–9	3.6b,3.9			
JMA	III	20 04 17 43.1–.10	36.75N	141.34E	49–1	4.0,3.9			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ35.00000°,λ2.00000°. NP2:ϕ_s55.00000°,δ89.00000°,λ125.00000°. $M_0$6.56000×10^{14}
IDC Error ellipse: s-maj=36.6km s-min=20.6km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.1km az=5.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**20 04 25 54.5–1.7**	**37.44N–.07**	**141.9E–.10**	**10**	**3.5b**	**18**	**1-69**	
JMA	III	20 04 25 48.8–.40	37.39N	142.15E	0	3.7			**¶17197381**
IDC	III	20 04 25 49.5–1.9	37.00N	142.36E	0	3.7,3.7b			

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=51.6km s-min=28.9km az=71.0.

ISC	**III**	**20 04 27 13.7–2.5**	**37.81N–.05**	**141.80E–.09**	**11–14**	**3.6b**	**21**	**1-58**	
IDC	III	20 04 27 11.0–2.2	37.91N	142.08E	0	3.7,3.6b			**¶17197382**
JMA	III	20 04 27 14.8–.10	37.79N	141.80E	21–2	4.0,3.6b			

ISC Event type ke.
IDC Error ellipse: s-maj=44.6km s-min=33.0km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**20 04 42 31.5–1.7**	**39.44N–.04**	**142.79E–.06**	**1–10**	**4.5b,3.8s**	**139**	**1-149**	
NIED	III	20 04 42 00	39.50N	142.80E	8	4.2W,3.8s			**¶16339566**
IDC	III	20 04 42 31.3–.53	39.44N	142.73E	0	4.4,4.4			
JMA	III	20 04 42 32.7–.20	39.47N	142.78E	18–2	4.2,4.4			
ISCJB	III	20 04 42 33.1–.23	39.38N–.03	142.75E–.03	22	4.4b,3.8s			
NEIC	III	20 04 42 35.4–1.6	39.43N	142.67E	25–11	4.6b,3.8s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ51.00000°,λ-159.00000°. NP2:ϕ_s81.00000°,δ74.00000°,λ-41.00000°. $M_0$2.58000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=12.4km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=166.7.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.8km az=139.0.

IDC	**III**	**20 04 43 15.1–2.4**	**38.55N**	**142.17E**	**0**	**4.3L,3.8**			
									¶17197387

IDC Error ellipse: s-maj=92.0km s-min=32.3km az=147.0.

JMA	**III**	**20 04 43 40.0**	**36.67N**	**140.88E**	**60–1**	**3.5**			
NIED	III	20 04 43 00	36.70N	140.90E	17	4.0W			**¶603145380**

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ58.00000°,λ-177.00000°. NP2:ϕ_s306.00000°,δ87.00000°,λ-32.00000°. $M_0$1.04000×10^{15}

ISC	**III**	**20 04 46 46.8–1.1**	**38.29N–.06**	**142.09E–.09**	**41**	**3.4b**	**17**	**1-76**	
JMA	III	20 04 46 45.0–.20	38.26N	142.16E	37–3	3.6			**¶17197388**
ISCJB	III	20 04 46 45.3–.87	38.26N–.06	142.16E–.08	41	3.3b			
IDC	III	20 04 46 49.6–5.1	38.18N	142.13E	69–50	3.3,3.2			

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.9km az=29.8.

IDC Error ellipse: s-maj=45.9km s-min=32.0km az=106.0.
JMA III 20 04 50 54.4–.10 38.76N 142.33E 23–2 4.1
NIED III 20 04 50 00 38.80N 142.30E 32 4.0W ¶600558576
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ22.00000°,λ-27.00000°. NP2:ϕ_s194.00000°,δ80.00000°,λ-110.00000°. $M_0$1.04000×10^{15}
ISC III 20 05 00 00.2–3.5 36.97N–.04 141.24E–.06 15–22 3.9b 43 0-147
IDC III 20 04 59 58.2–.72 37.05N 141.25E 0 4.0,3.8 ¶600558600
ISCJB III 20 04 59 59.3–.99 36.94N–.04 141.35E–.06 23–6 4.0b,3.5s
NIED III 20 05 00 00 36.90N 141.20E 14 3.9W,3.5s
NEIC III 20 05 00 01.3–2.5 37.05N 141.22E 21–17 4.4b,3.5s
JMA III 20 05 00 01.7–.10 36.92N 141.16E 31–1 4.0,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=16.6km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.2km az=25.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ23.00000°,λ-140.00000°. NP2:ϕ_s57.00000°,δ75.00000°,λ-72.00000°. $M_0$7.89000×10^{14}
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.5km az=130.0.
JMA Event type fe.
ISC III 20 05 23 58.3–.57 38.38N–.05 142.09E–.07 41 4.1b 48 1-146
NIED III 20 05 23 00 38.40N 142.10E 50 4.1W ¶16462019
IDC III 20 05 23 52.3–.64 38.38N 142.08E 0 4.2,4.0
ISCJB III 20 05 23 56.1–.39 38.32N–.03 142.23E–.05 41 4.0b,4.0
JMA III 20 05 23 58.2–.10 38.42N 142.11E 43–2 4.2,4.0
NEIC III 20 05 23 58.5–.53 38.37N 142.03E 44–5 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ41.00000°,λ23.00000°. NP2:ϕ_s104.00000°,δ75.00000°,λ129.00000°. $M_0$1.34000×10^{15}
IDC Error ellipse: s-maj=20.3km s-min=13.8km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.1km az=28.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.1km az=116.0.
JMA III 20 05 25 45.2–.10 38.76N 142.31E 24–2 3.9
¶602677940
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 05 34 22.9–3.6 38.73N–.08 142.4E–.10 29–22 3.6b 21 1-59
IDC III 20 05 34 16.3–2.5 38.86N 142.94E 0 3.8,3.7 ¶17197398
ISCJB III 20 05 34 23.0–1.5 38.72N–.05 142.4E–.10 49–11 3.6b,3.7
JMA III 20 05 34 23.1–.10 38.71N 142.32E 31–2 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.8km s-min=25.9km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=8.8km az=9.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 20 05 39 18.4–1.8 40.12N 142.35E 0 3.5,3.4L
¶17197399
IDC Error ellipse: s-maj=128.2km s-min=28.7km az=122.0.
ISC III 20 05 43 50.2–.80 36.42N–.04 141.85E–.06 19 3.4b 25 1-90
NIED III 20 05 43 00 36.50N 141.90E 29 3.8W ¶17197400
IDC III 20 05 43 47.1–1.0 36.39N 142.01E 0 3.8,3.8L
ISCJB III 20 05 43 48.6–.66 36.41N–.05 142.07E–.05 19 3.5b,3.8L
JMA III 20 05 43 51.6–.30 36.46N 141.90E 56 3.5,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ26.00000°,λ71.00000°. NP2:ϕ_s31.00000°,δ65.00000°,λ99.00000°. $M_0$5.10000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=20.0km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.2km az=24.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 20 05 50 57.6–.10 36.02N 141.23E 31–2 3.3
¶602677905
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 05 51 29.9–.51 35.39N–.05 141.18E–.06 33 4.2b 51 0-148
NIED III 20 05 51 00 35.40N 141.30E 26 4.2W ¶602677903
IDC III 20 05 51 25.2–.57 35.32N 141.06E 0 4.2,4.0
JMA III 20 05 51 27.6–.20 35.43N 141.29E 25–3 3.7,4.0
NEIC III 20 05 51 27.1–2.5 35.33N 141.22E 14–15 4.4b,4.0
ISCJB III 20 05 51 27.7–.37 35.38N–.03 141.32E–.05 33 4.0b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ30.00000°,λ-148.00000°. NP2:ϕ_s252.00000°,δ75.00000°,λ-64.00000°. $M_0$2.37000×10^{15}
NEIC Event type se.
ISCJB Event type ke.
JMA III 20 05 53 10.8–.30 38.20N 142.89E 0 4.2
¶602677900
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 20 05 55 29.6–.26 37.72N–.03 141.60E–.03 52–1 5.3b,5.2s 1369 1-155
NIED III 20 05 55 00 37.70N 141.70E 50 5.5W,5.2s ¶602443754
MOS III 20 05 55 25.0–1.1 37.66N 141.59E 29 5.7b,5.1s
BJI III 20 05 55 26.0 37.58N 141.74E 47 5.3b,5.3s
JMA III 20 05 55 28.3–.10 37.66N 141.65E 42–2 5.4,5.3s
ISCJB III 20 05 55 29.7–.26 37.70N–.02 141.46E–.02 59–2 5.3b,5.1s
IDC III 20 05 55 29.4–.34 37.67N 141.52E 49–3 5.0,4.9
NEIC III 20 05 55 30.9–.48 37.72N 141.36E 57–4 5.4b,4.9
GCMT III 20 05 55 30.9–.10 37.73N 141.67E 49–0 5.6W,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ18.00000°,λ90.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ90.00000°. $M_0$2.31000×10^{17}
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=97.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=146.2.
IDC Error ellipse: s-maj=10.1km s-min=6.9km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.5km az=139.0. Recorded [3 JMA] in Fukushima and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s108,c212; s118,c245; Duration: 1⊖5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.16±.04 $M_{\theta\theta}$-0.38±.03; $M_{\phi\phi}$-1.78±.03; $M_{r\theta}$0.64±.03; $M_{\theta\phi}$-0.57±.02; $M_{\phi r}$1.62±.03; Best double couple: NP1:ϕ_s21.00000°,δ65.00000°,λ91.00000°. NP2:ϕ_s199.00000°,δ25.00000°,λ88.00000°. Principal axes:
T 2.7940,Plg70.0000°,Azm292.0000°; N -0.1760,Plg1.0000°,Azm200.0000°
; P -2.6190,Plg20.0000°,Azm110.0000° $M_0$2.70600×10^{17}
ISC III 20 05 58 04.5–.30 35.35N–.04 141.09E–.04 24–1 5.2b,4.9s 440 0-155
NIED III 20 05 58 00 35.40N 141.20E 26 5.1W,4.9s ¶16339569
BJI III 20 05 58 01.3 35.36N 141.11E 20 5.1b,5.1s
JMA III 20 05 58 03.7–.10 35.44N 141.22E 33–2 4.4,5.1s
MOS III 20 05 58 03.1–1.1 35.38N 141.18E 25 5.4b,5.0s
IDC III 20 05 58 04.0–2.6 35.36N 141.06E 20–16 4.8,4.7b
ISCJB III 20 05 58 04.2–.59 35.32N–.03 141.03E–.03 30–4 5.1b,4.9s
NEIC III 20 05 58 05.1–.49 35.28N 140.99E 27–3 5.2b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ13.00000°,λ-154.00000°. NP2:ϕ_s241.00000°,δ84.00000°,λ-78.00000°. $M_0$5.45000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.7km az=105.5.
IDC Error ellipse: s-maj=13.3km s-min=9.1km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.9km az=144.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.4km az=129.0.
ISC III 20 06 07 17.3–1.9 35.9N–.20 141.4E–.20 26 5 0-56
IDC III 20 06 07 12.5–3.9 36.04N 141.61E 0 3.4,3.3b ¶600558638
JMA III 20 06 07 17.4–.20 35.93N 141.30E 34–3 2.9,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=101.1km s-min=37.4km az=53.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 06 33 49.5–1.8 36.88N–.09 141.2E–.10 10 11 0-57
IDC III 20 06 33 47.1–2.9 37.03N 141.48E 0 3.8,3.7s ¶17197410
ISCJB III 20 06 33 49.9–1.4 36.77N–.05 141.14E–.10 10 3.8s,3.2b
JMA III 20 06 33 56.1 36.86N 140.65E 6–1 2.2,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=68.7km s-min=33.3km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=7.2km az=1.8.
ISC III 20 06 46 21.0–1.2 35.88N–.07 141.41E–.09 26 3.5b 13 0-56
IDC III 20 06 46 16.9–1.5 35.68N 141.49E 0 3.5,3.4b ¶17197414
JMA III 20 06 46 20.4–.20 35.87N 141.42E 21–2 3.1,3.4b
ISCJB III 20 06 46 20.1–1.0 35.88N–.07 141.45E–.09 26 3.4b,3.4b
ISC Event type ke.
ISCJB Event type ke.
JMA III 20 06 49 08.2–.10 39.04N 142.40E 28–1 3.6
¶602677475
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 06 51 29.9–2.0 36.48N–.07 141.21E–.08 29–13 3.4b 20 1-78
IDC III 20 06 51 25.5–1.4 36.37N 141.41E 0 3.8L,3.6 ¶17197415
ISCJB III 20 06 51 30.5–1.2 36.49N–.06 141.17E–.09 46–9 3.3b,3.6
JMA III 20 06 51 32.1–.10 36.55N 141.04E 51–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=29.3km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=7.4km az=35.4.
JMA Event type fe.
IDC III 20 06 54 05.8–4.3 36.00N 140.76E 0 3.5,3.2
¶17197416
IDC Error ellipse: s-maj=119.7km s-min=35.5km az=51.0.
ISC III 20 07 00 54.1–5.0 35.8N–.10 141.9E–.20 23 6 1-60
IDC III 20 07 00 58.5–3.8 36.48N 142.10E 0 3.9,3.6 ¶600558674
JMA III 20 07 01 04.5–.10 35.38N 141.23E 27–2 2.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=82.0km s-min=41.6km az=42.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 07 22 57.8–.61 39.06N–.05 142.54E–.08 27 4.4b 57 1-151
NIED III 20 07 22 00 39.10N 142.60E 5 4.4W ¶16479677
IDC III 20 07 22 53.2–.77 39.02N 142.63E 0 4.3,4.2
JMA III 20 07 22 54.6–.10 39.10N 142.62E 24–1 4.5,4.2
ISCJB III 20 07 22 55.6–.41 39.03N–.03 142.59E–.05 27 4.3b,4.2
NEIC III 20 07 22 59.5–.80 39.01N 142.63E 45–6 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ40.00000°,λ-78.00000°. NP2:ϕ_s303.00000°,δ51.00000°,λ-100.00000°. $M_0$4.09000×10^{15}
IDC Error ellipse: s-maj=21.6km s-min=14.8km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.9km az=13.3.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.6km az=113.0.
ISC III 20 07 45 39.9–3.0 38.47N–.10 142.2E–.20 24 10 1-48
IDC III 20 07 45 31.5–2.9 36.59N 141.89E 0 3.2,3.1b ¶602677359
JMA III 20 07 45 38.2–.20 38.37N 142.32E 34–4 3.6,3.1b
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=31.2km az=158.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 07 56 29.4–.38 36.22N–.04 141.89E–.04 29–2 5.2b,5.2s 979 1-152
NIED III 20 07 56 00 36.20N 142.00E 17 5.1W,5.2s ¶602677328
IDC III 20 07 56 25.1–.36 36.18N 141.91E 0 5.1,5.1s
JMA III 20 07 56 27.2–.20 36.21N 141.99E 57 5.2,5.1s
BJI III 20 07 56 28.6 36.10N 141.47E 19 5.6b,5.4s
MOS III 20 07 56 28.2–1.0 36.20N 141.89E 33 5.5b,5.1s
ISCJB III 20 07 56 28.3–.85 36.19N–.02 141.81E–.02 29–5 5.2s,5.1b
NEIC III 20 07 56 30.5–1.2 36.21N 141.78E 32–8 5.2b,5.1b
GCMT III 20 07 56 30.5–.40 36.43N 142.36E 33–1 5.2W,5.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ18.00000°,λ116.00000°. NP2:ϕ_s12.00000°,δ74.00000°,λ82.00000°. $M_0$4.68000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=113.6.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=163.1.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=138.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c34; s62,c86; Duration: 1⊖0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.46±.07 $M_{\theta\theta}$-0.32±.05; $M_{\phi\phi}$-0.14±.05; $M_{r\theta}$-0.04±.06; $M_{\theta\phi}$-0.71±.03; $M_{\phi r}$0.41±.06; Best double couple: NP1:ϕ_s14.00000°,δ68.00000°,λ42.00000°. NP2:ϕ_s265.00000°,δ51.00000°,λ151.00000°. Principal axes:
T 0.8320,Plg45.0000°,Azm236.0000°; N 0.1610,Plg43.0000°,Azm37.0000°
; P -0.9930,Plg10.0000°,Azm136.0000° $M_0$0.91300×10^{17}
JMA III 20 08 01 55.2–.10 36.65N 140.95E 49–1 4.1
¶602677317
JMA Event type fe.
JMA III 20 08 02 36.5–.20 39.56N 142.68E 11–2 4.5
¶602677316
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 08 05 50.1–1.2 37.21N–.08 141.81E–.09 10 4.1b 15 1-90
IDC III 20 08 05 44.4–.92 37.07N 142.86E 0 5.0,5.0s ¶17197423
JMA III 20 08 05 45.9–.40 37.41N 142.24E 17 3.7,5.0s
ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=18.1km az=88.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 20 08 23 36.8–.52 36.20N–.04 141.79E–.05 24–3 4.5b 128 1-147
IDC III 20 08 23 33.0–.51 36.21N 141.82E 0 5.7,5.7s ¶16339574
JMA III 20 08 23 35.9–.30 36.22N 141.89E 52 4.5,5.7s
ISCJB III 20 08 23 35.9–1.2 36.20N–.03 141.82E–.05 29–8 4.5b,5.7s
NEIC III 20 08 23 37.0–1.4 36.25N 141.79E 21–9 4.8b,5.7s
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=12.0km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.8km az=178.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=117.0.
ISC III 20 08 27 54.5–.47 39.06N–.05 142.77E–.05 10 5.0b 112 1-159
NIED III 20 08 27 00 39.10N 142.90E 26 4.9W ¶16339578
IDC III 20 08 27 52.5–.66 39.12N 142.94E 0 4.9,4.8s
ISCJB III 20 08 27 54.0–.28 39.18N–.04 142.87E–.03 10 5.1b,4.9s
JMA III 20 08 27 55.3–.20 39.15N 142.92E 22–2 4.9,4.9s
NEIC III 20 08 27 59.4–.92 39.25N 142.59E 40–8 4.8b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s25.00000°,δ75.00000°,λ100.00000°. $M_0$2.53000×10^{16}
IDC Error ellipse: s-maj=18.4km s-min=14.5km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=158.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.4km az=123.0.
JMA III 20 08 33 16.8–.30 39.63N 142.72E 17–3 3.5
¶602678186
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 08 56 51.3–1.5 35.36N–.06 141.2E–.10 10 11 0-59
IDC III 20 08 56 44.9–6.5 36.05N 141.93E 0 3.7,3.6b ¶602677267
ISCJB III 20 08 56 49.1–1.6 35.39N–.08 141.3E–.10 10 3.6b,3.6b
JMA III 20 08 56 50.8–.20 35.39N 141.22E 24–2 2.9,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=150.8km s-min=39.8km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=7.5km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 09 20 35.2–1.1 35.93N–.07 141.55E–.08 26 3.6b 12 1-78
IDC III 20 09 20 31.7–.82 35.86N 141.83E 0 3.7,3.5 ¶17197430
JMA III 20 09 20 34.5–.20 35.97N 141.78E 40–5 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=18.8km az=106.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 20 09 26 15.4–2.2 37.31N–.08 141.2E–.20 35 3.5b 11 0-46
IDC III 20 09 26 01.6–9.3 36.89N 142.56E 0 3.7,3.7s ¶17197431
JMA III 20 09 26 16.6–.10 37.35N 141.10E 29–1 3.1,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=164.3km s-min=65.5km az=132.0.
JMA Event type fe.
ISC III 20 09 41 51.9–.49 40.30N–.05 142.67E–.05 12 4.2b 61 1-150
IDC III 20 09 41 49.4–.88 40.31N 142.79E 0 4.0,3.9 ¶16447654
ISCJB III 20 09 41 50.2–.34 40.35N–.04 142.83E–.05 12 4.2b,3.9
NEIC III 20 09 41 55.3–.25 40.37N 142.77E 35 4.4b,3.9
JMA III 20 09 41 56.9–.10 40.27N 142.48E 34–2 3.8,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=19.7km az=106.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=148.6.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.4km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
JMA III 20 09 45 27.4–.10 39.29N 142.34E 29–1 3.7
¶602677143

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 09 49 59.2–.43 37.33N–.05 141.87E–.05 24 4.5b 158 1-152
NIED III 20 09 49 00 37.30N 141.90E 8 4.3W **¶16339582**
IDC III 20 09 49 54.9–.57 37.27N 141.94E 0 4.2,4.1
MOS III 20 09 49 58.6–1.0 37.30N 141.89E 33 4.7b,4.1
JMA III 20 09 49 58.1–.20 37.31N 141.86E 36–3 4.3,4.1
ISCJB III 20 09 49 58.1–.27 37.38N–.04 141.87E–.03 24 4.4b,4.1
NEIC III 20 09 50 00.5–1.8 37.41N 141.81E 29–13 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_D203.00000°,δ42.00000°,λ-114.00000°. NP2:ϕ_S53.00000°,δ52.00000°,λ-70.00000°. $M_0$2.88000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.3km az=131.0.
MOS Error ellipse: s-maj=8.9km s-min=6.1km az=97.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.1km az=161.6.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=151.0.
JMA III 20 10 18 45.5–.20 39.23N 142.41E 28–1 3.5
¶602676857

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 10 35 52.0–.53 35.19N–.03 141.20E–.03 14–3 5.1b,4.8s 679 1-154
NIED III 20 10 35 00 35.20N 141.30E 17 5.0W,4.8s **¶16339583**
BJI III 20 10 35 48.6 35.28N 141.22E 11 5.0b,5.0s
IDC III 20 10 35 49.8–.40 35.19N 141.23E 0 4.9,4.8
ISCJB III 20 10 35 50.2–.74 35.12N–.02 141.11E–.02 11–4 5.0b,4.8s
NEIC III 20 10 35 51.4–1.4 35.16N 141.12E 9–9 5.1b,4.8s
JMA III 20 10 35 52.5–.10 35.24N 141.30E 27–2 4.9,4.8s
MOS III 20 10 35 53.4–1.0 35.18N 141.12E 33 5.2b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S348.00000°,δ8.00000°,λ-117.00000°. NP2:ϕ_S195.00000°,δ83.00000°,λ-86.00000°. $M_0$4.04000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=9.8km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=154.3.
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.1km az=128.0.
JMA Event type fe.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=113.5.
ISC III 20 10 42 13.0–.91 36.51N–.06 141.88E–.07 19 3.6b 18 1-64
JMA III 20 10 42 09.8–.50 36.48N 142.09E 70 3.8 **¶17197437**
IDC III 20 10 42 10.1–.92 36.48N 141.96E 0 3.7,3.6
ISCJB III 20 10 42 10.7–.72 36.46N–.05 142.00E–.07 19 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 10 44 21.2–1.5 40.6N–.30 142.4E–.10 26 3.7b 10 8-87
IDC III 20 10 44 16.6–1.7 40.45N 142.49E 0 3.9,3.7 **¶17197439**
ISCJB III 20 10 44 20.4–1.5 40.7N–.30 142.3E–.20 26 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 20 10 47 16.9–.10 38.47N 141.91E 43–1 3.7
¶602676822

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 20 10 47 42.4–6.6 34.62N 140.47E 0 3.6,3.4
¶17197440

IDC Error ellipse: s-maj=252.9km s-min=21.8km az=66.0.
IDC III 20 10 51 14.9–2.0 37.27N 141.51E 0 3.5,3.5b
¶17197441

IDC Error ellipse: s-maj=52.0km s-min=28.7km az=70.0.
ISC III 20 10 55 19.0–2.2 37.29N–.04 141.36E–.08 4–12 3.4b 24 0-57
IDC III 20 10 55 17.8–2.3 37.30N 141.53E 0 3.6,3.6 **¶17197442**
ISCJB III 20 10 55 20.4–1.2 37.28N–.03 141.36E–.08 24–6 3.4b,3.6
JMA III 20 10 55 23.5–.10 37.31N 141.14E 30–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=52.7km s-min=21.5km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.6km az=177.9.
JMA Event type fe.
JMA III 20 10 59 22.8–.10 36.89N 141.09E 49–1 4.1
NIED III 20 10 59 00 36.90N 141.10E 41 4.3W **¶600558912**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S105.00000°,δ36.00000°,λ-173.00000°. NP2:ϕ_S10.00000°,δ86.00000°,λ-54.00000°. $M_0$3.67000×10^{15}
JMA III 20 11 00 47.1–.10 36.89N 141.09E 49–1 3.7
NIED III 20 11 00 00 36.90N 141.10E 11 4.2W **¶600558915**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S62.00000°,δ27.00000°,λ-136.00000°. NP2:ϕ_S291.00000°,δ71.00000°,λ-70.00000°. $M_0$2.06000×10^{15}
ISC III 20 11 02 50.1–.45 38.39N–.05 142.06E–.06 41 4.4b 99 1-151
NIED III 20 11 02 00 38.40N 142.10E 41 4.1W **¶16447658**
ISCJB III 20 11 02 47.9–.30 38.37N–.03 142.16E–.05 41 4.5b,3.6s
NEIC III 20 11 02 49.4–.27 38.44N 142.15E 35 4.9b,3.6s
IDC III 20 11 02 49.9–2.1 38.35N 142.11E 43–19 4.1,4.0
JMA III 20 11 02 50.0–.10 38.44N 142.08E 43–2 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S189.00000°,δ18.00000°,λ81.00000°. NP2:ϕ_S19.00000°,δ73.00000°,λ93.00000°. $M_0$1.62000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.2km az=19.1.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=127.0.
IDC Error ellipse: s-maj=17.1km s-min=11.2km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 11 20 18.7–1.4 35.77N–.04 140.97E–.08 9–7 3.4b 16 0-59
NIED III 20 11 20 00 35.80N 140.90E 11 3.7W **¶17197444**
ISCJB III 20 11 20 17.5–1.2 35.78N–.05 141.05E–.07 11–6 3.3b
IDC III 20 11 20 17.5–1.3 35.70N 140.97E 0 3.5,3.3
JMA III 20 11 20 19.4–.10 35.75N 140.92E 9–1 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S342.00000°,δ40.00000°,λ-64.00000°. NP2:ϕ_S130.00000°,δ55.00000°,λ-110.00000°. $M_0$4.49000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=8.6km az=157.6.
IDC Error ellipse: s-maj=34.5km s-min=26.1km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 20 11 26 21.3–.20 37.69N 141.70E 49–3 3.4
¶603145381

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 11 32 09.8–.68 38.03N–.04 141.50E–.07 62–5 3.9b 47 1-89
NIED III 20 11 32 00 38.00N 141.40E 50 4.0W **¶17197448**
ISCJB III 20 11 32 08.9–.69 38.01N–.03 141.48E–.09 71–5 3.8b
IDC III 20 11 32 09.9–.60 38.02N 141.40E 63–5 3.9,3.8
JMA III 20 11 32 10.3 38.03N 141.44E 62–1 4.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S32.00000°,δ42.00000°,λ115.00000°. NP2:ϕ_S180.00000°,δ53.00000°,λ69.00000°. $M_0$9.58000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.2km az=14.2.
IDC Error ellipse: s-maj=16.3km s-min=10.0km az=98.0.
JMA Event type fe.
JMA III 20 11 57 32.0–.30 39.45N 142.78E 15–3 3.5
¶602677817

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 20 12 11 55.9–.20 38.53N 142.06E 20–2 3.6
¶602677801

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 12 18 21.9–.92 35.73N–.05 140.86E–.09 12–5 3.4b 14 0-65
IDC III 20 12 18 20.2–1.1 35.63N 140.89E 0 3.6,3.4 **¶602677758**
JMA III 20 12 18 21.6–.10 35.76N 140.95E 9–1 3.6,3.4
ISCJB III 20 12 18 21.1–1.1 35.73N–.05 141.0E–.10 16–7 3.3b,3.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 20 12 24 01.6–.82 39.52N–.07 142.63E–.07 29 3.8b 26 1-72
JMA III 20 12 23 57.4–.30 39.43N 142.77E 17–2 3.9 **¶17197458**

IDC III 20 12 23 57.3–.93 39.56N 142.74E 0 3.9,3.7
ISCJB III 20 12 23 59.3–.61 39.48N–.06 142.72E–.06 29 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 12 29 49.6–1.5 36.64N–.06 141.1E–.10 21–4 3.3b 14 0-60
ISCJB III 20 12 29 48.0–2.1 36.61N–.06 141.2E–.10 21–14 3.3b,2.6s **¶602677722**
JMA III 20 12 29 49.2–.10 36.64N 141.09E 21–2 3.7,2.6s
IDC III 20 12 30 03.4–7.1 34.67N 136.39E 0 3.4,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=18.5km s-min=8.8km az=14.0.
JMA Event type fe.
IDC Error ellipse: s-maj=294.2km s-min=20.5km az=64.0.
ISC III 20 12 39 42.5–2.0 39.04N–.05 142.39E–.07 10–12 3.9b 32 1-88
JMA III 20 12 39 45.2–.10 39.09N 142.39E 30–1 4.1 **¶17197460**
IDC III 20 12 39 49.8–2.8 39.03N 142.42E 68–25 3.8,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=14.3km az=101.0.
ISC III 20 12 43 30.0–.44 37.39N–.04 141.62E–.04 35–1 4.9b,4.2s 501 1-152
NIED III 20 12 43 00 37.30N 141.60E 44 4.8W,4.2s **¶16339587**
BJI III 20 12 43 25.8 37.22N 141.73E 33 5.1b,5.1b
MOS III 20 12 43 30.7–.85 37.60N 141.41E 43 5.2b,5.1b
ISCJB III 20 12 43 30.5–.41 37.37N–.02 141.48E–.03 50–3 4.9b,4.3s
JMA III 20 12 43 30.4–.10 37.33N 141.56E 46–2 4.8,4.3s
IDC III 20 12 43 31.0–1.4 37.30N 141.54E 44–13 4.8,4.6
NEIC III 20 12 43 32.9–.49 37.36N 141.45E 58–4 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S203.00000°,δ15.00000°,λ93.00000°. NP2:ϕ_D20.00000°,δ75.00000°,λ89.00000°. $M_0$1.51000×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.4km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=135.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=103.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=136.0.
ISC III 20 12 51 50.9–.63 35.97N–.05 141.84E–.06 23 3.7b 28 1-147
IDC III 20 12 51 48.0–.76 35.93N 141.89E 0 3.8,3.7 **¶17197461**
JMA III 20 12 51 49.8–.30 36.05N 141.93E 28 3.8,3.7
ISCJB III 20 12 51 49.5–.56 35.97N–.04 141.95E–.06 23 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 20 13 06 47.2–.20 36.36N 141.53E 57–3 2.7
¶602677634

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 13 07 58.0–.65 37.10N–.05 141.45E–.09 39–4 3.6b 38 1-147
NIED III 20 13 07 00 37.10N 141.30E 41 4.2W **¶600559059**
ISCJB III 20 13 07 57.1–.93 37.06N–.04 141.45E–.08 46–8 3.6b
JMA III 20 13 07 58.5–.10 37.11N 141.31E 50–1 4.3
IDC III 20 13 08 00.8–1.9 37.04N 141.39E 66–18 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S107.00000°,δ34.00000°,λ125.00000°. NP2:ϕ_S247.00000°,δ62.00000°,λ69.00000°. $M_0$1.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.6km az=8.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.1km s-min=11.8km az=88.0.
ISC III 20 14 01 18.0–1.1 35.90N–.05 141.30E–.09 26 3.5b 19 0-50
ISCJB III 20 14 01 16.9–.83 35.98N–.05 141.37E–.07 26 3.6b **¶17197472**
JMA III 20 14 01 18.2–.10 35.96N 141.31E 38–1 3.4
IDC III 20 14 01 19.7–3.6 35.82N 141.35E 42–38 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.4km az=162.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.6km s-min=22.2km az=85.0.
ISC III 20 14 06 23.0–1.3 38.28N–.06 142.04E–.09 47–13 3.5b 21 1-76
NIED III 20 14 06 00 38.30N 142.10E 20 3.9W **¶17197473**
ISCJB III 20 14 06 20.7–1.2 38.28N–.05 142.13E–.10 43–10 3.6b
JMA III 20 14 06 20.6–.20 38.30N 142.12E 41–3 4.2
IDC III 20 14 06 24.3–2.6 38.26N 142.11E 61–24 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S93.00000°,δ29.00000°,λ-39.00000°. NP2:ϕ_D218.00000°,δ72.00000°,λ-113.00000°. $M_0$8.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.5km az=12.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=15.3km az=82.0.
ISC III 20 14 19 27.1–1.0 37.83N–.05 142.00E–.08 30 4.2s,3.5b 32 1-71
NIED III 20 14 19 00 37.80N 142.00E 35 3.8W,3.5b **¶602678141**
IDC III 20 14 19 23.1–1.1 37.76N 142.08E 0 4.2,4.2s
ISCJB III 20 14 19 25.5–.61 37.82N–.04 142.03E–.06 30 4.2s,3.6b
JMA III 20 14 19 26.7–.20 37.85N 141.96E 34–4 3.9,3.6b
NEIC III 20 14 19 27.9–.75 37.81N 142.03E 35 4.2b,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S147.00000°,δ42.00000°,λ-58.00000°. NP2:ϕ_S287.00000°,δ56.00000°,λ-115.00000°. $M_0$5.99000×10^{14}
IDC Error ellipse: s-maj=30.8km s-min=17.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.1km az=9.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=9.0km az=114.0.
ISC III 20 14 31 05.5–.72 36.33N–.04 141.80E–.07 19 3.6b 24 1-147
NIED III 20 14 31 00 36.70N 142.20E 32 3.9W **¶602676665**
JMA III 20 14 31 06.2–.30 36.73N 142.21E 39 3.7
IDC III 20 14 31 13.7–2.8 36.40N 141.71E 75–26 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S141.00000°,δ46.00000°,λ-50.00000°. NP2:ϕ_S270.00000°,δ57.00000°,λ-124.00000°. $M_0$9.36000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=26.9km s-min=14.4km az=84.0.
ISC III 20 14 32 44.8–2.0 36.40N–.04 141.93E–.08 2–11 3.5b 29 1-60
NIED III 20 14 32 00 36.40N 141.90E 5 3.8W **¶17197479**
IDC III 20 14 32 44.8–1.3 36.29N 141.91E 0 3.7,3.6
ISCJB III 20 14 32 45.2–1.2 36.39N–.04 142.00E–.07 18–7 3.4b,3.6
JMA III 20 14 32 46.2–.20 36.42N 141.94E 20–5 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S233.00000°,δ49.00000°,λ14.00000°. NP2:ϕ_S133.00000°,δ79.00000°,λ138.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=30.8km s-min=18.3km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.6km az=165.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 20 14 35 47.9–.10 37.16N 141.18E 33–1 3.6
¶602676658

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 14 48 52.7–.44 35.36N–.03 141.12E–.03 29–2 5.0b,4.9s 571 0-152
NIED III 20 14 48 00 35.40N 141.30E 32 5.1W,4.9s **¶602676611**
BJI III 20 14 48 50.0 35.26N 141.26E 39 5.2b,4.9s
JMA III 20 14 48 50.4–.10 35.43N 141.27E 36–2 5.2,4.9s
IDC III 20 14 48 51.0–2.9 35.32N 141.02E 15–17 4.8,4.8
ISCJB III 20 14 48 52.1–.46 35.33N–.02 141.02E–.02 32–3 4.9b,4.8s
MOS III 20 14 48 53.0–1.1 35.52N 141.03E 33 5.1b,4.8s
NEIC III 20 14 48 54.1–.56 35.33N 140.96E 36–5 5.0b,4.8s
GCMT III 20 14 48 54.1–.30 35.39N 141.16E 24 5.1W,4.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_D192.00000°,δ49.00000°,λ-43.00000°. NP2:ϕ_S314.00000°,δ59.00000°,λ-129.00000°. $M_0$5.89000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.3km s-min=9.0km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=149.5.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=118.4.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c50; s88,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.83±.17 $M_{\theta\theta}$-1.94±.12; $M_{\phi\phi}$3.76±.11; $M_{r\theta}$4.41±.17; $M_{\theta\phi}$-1.43±.08; $M_{\phi r}$-0.28±.16; Best double couple: NP1:ϕ_S305.00000°,δ75.00000°,λ-132.00000°. NP2:ϕ_S198.00000°,δ44.00000°,λ-22.00000°. Principal axes: T 4.5430,Plg19.0000°,Azm65.0000°; N 1.8090,Plg40.0000°,Azm318.0000°

; P -6.3630,Plg44.0000°,Azm173.0000° $M_0$5.45300×10^{16}

JMA III 20 14 50 38.9–.20 38.14N 142.38E 30 4.2 ¶602676608

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC III 20 14 54 46.7–.68 35.34N–.04 141.16E–.05 29–4 4.6b 169 0-152

NIED III 20 14 54 00 35.40N 141.30E 32 4.6W **¶16339592**

JMA III 20 14 54 45.0–.10 35.44N 141.27E 33–2 4.7

ISCJB III 20 14 54 47.2–.52 35.28N–.03 141.10E–.04 48–4 4.6b,4.0s

NEIC III 20 14 54 48.7–.65 35.29N 141.10E 46–6 4.8b,4.0s

IDC III 20 14 54 48.1–2.0 35.33N 141.16E 40–18 4.4,4.3

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ49.00000°,λ-35.00000°. NP2:ϕ_s322.00000°,δ64.00000°,λ-133.00000°. $M_0$9.41000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=5.0km az=11.9.

NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.2km az=101.0.

IDC Error ellipse: s-maj=14.1km s-min=10.7km az=90.0.

ISC III 20 15 06 17.5–.48 35.43N–.05 141.17E–.06 33 4.2b 70 0-148

NIED III 20 15 06 00 35.50N 141.20E 26 4.2W **¶16341349**

JMA III 20 15 06 15.2–.30 35.47N 141.23E 28–2 3.6

ISCJB III 20 15 06 15.5–.38 35.42N–.04 141.25E–.05 33 4.3s,4.2b

NEIC III 20 15 06 15.6–2.3 35.40N 141.27E 21–16 4.5b,4.2b

IDC III 20 15 06 18.6–2.1 35.38N 141.05E 40–19 4.0,4.0

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ24.00000°,λ-149.00000°. NP2:ϕ_s228.00000°,δ78.00000°,λ-69.00000°. $M_0$2.07000×10^{15}

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=20.9.

NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.0km az=80.0.

IDC Error ellipse: s-maj=19.1km s-min=10.5km az=91.0.

ISC III 20 15 09 33.4–1.4 39.23N–.07 142.5E–.10 27 3.3b 15 1-63

IDC III 20 15 09 27.1–2.4 39.32N 143.08E 0 3.6,3.5 **¶17197482**

ISCJB III 20 15 09 31.4–.00 39.18N–.07 142.63E–.09 27 3.3b,3.5

JMA III 20 15 09 33.7–.10 39.21N 142.49E 30–1 3.7,3.5

ISC Event type ke.

IDC Error ellipse: s-maj=67.1km s-min=23.6km az=66.0.

ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=8.3km az=145.8.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 20 15 12 03.3–.20 37.66N 141.86E 28–3 3.6 ¶602676556

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 20 15 18 13.0–.84 35.11N–.05 141.44E–.09 27 4.0b 24 1-84

IDC III 20 15 18 09.2–1.1 35.08N 141.42E 0 4.1,3.9 **¶16462026**

ISCJB III 20 15 18 11.4–.72 35.08N–.05 141.48E–.09 27 4.0b,3.9

JMA III 20 15 18 11.9–.30 35.14N 141.37E 15 3.1,3.9

NEIC III 20 15 18 14.4–.53 35.07N 141.38E 35 4.6b,3.9

ISC Event type se.

IDC Error ellipse: s-maj=30.5km s-min=18.7km az=106.0.

ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.7km az=13.2.

JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.7km az=86.0.

ISC III 20 15 29 49.8–2.7 36.77N–.07 141.3E–.10 30–12 3.5b 17 1-61

IDC III 20 15 29 48.4–2.1 37.23N 141.14E 0 3.5,3.4b **¶602676398**

JMA III 20 15 29 49.2–.10 36.74N 141.34E 47–2 3.3,3.4b

ISC Event type ke.

IDC Error ellipse: s-maj=57.1km s-min=25.7km az=61.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 20 15 41 50.9–.10 39.97N 142.33E 35–2 3.5 ¶602676378

ISC III 20 15 45 13.3–1.9 35.76N–.07 141.0E–.10 10 3.4b 9 0-56

IDC III 20 15 45 11.2–3.0 36.62N 141.89E 0 3.5,3.5b **¶17197485**

JMA III 20 15 45 13.4–.10 35.75N 140.87E 9–1 2.5,3.5b

ISC Event type ke.

IDC Error ellipse: s-maj=77.4km s-min=30.9km az=57.0.

ISC III 20 15 58 39.0–1.3 36.24N–.05 141.91E–.09 19 3.7b 19 1-56

IDC III 20 15 58 35.5–2.5 36.25N 142.17E 0 3.7,3.7 **¶17197489**

JMA III 20 15 58 39.4–.30 36.28N 141.93E 65 3.4,3.7

ISC Event type ke.

IDC Error ellipse: s-maj=60.3km s-min=25.4km az=70.0.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC III 20 16 20 04.4–2.0 36.52N–.05 141.78E–.07 5–12 3.6b 24 1-60

IDC III 20 16 20 02.4–2.3 36.57N 142.16E 0 3.8,3.7 **¶17197492**

JMA III 20 16 20 08.3–.20 36.52N 141.71E 46–5 3.6,3.7

ISC Event type ke.

IDC Error ellipse: s-maj=57.6km s-min=23.7km az=62.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 20 16 27 50.2–1.9 36.41N–.07 140.77E–.08 9–9 3.3b 16 0-69

NIED III 20 16 27 00 36.40N 140.80E 8 3.5W **¶17197494**

IDC III 20 16 27 48.2–15 36.00N 140.94E 0 3.8,3.7

JMA III 20 16 27 49.8 36.41N 140.81E 13–1 3.9,3.7

ISCJB III 20 16 27 49.4–1.3 36.39N–.05 140.80E–.06 6–5 3.6b,3.7

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ64.00000°,λ26.00000°. NP2:ϕ_s287.00000°,δ67.00000°,λ151.00000°. $M_0$1.94000×10^{14}

JMA Event type fe.

ISCJB Event type fe.

ISC III 20 16 40 38.8–.70 35.82N–.06 141.93E–.06 23 4.1b 42 1-91

NIED III 20 16 40 00 35.80N 142.00E 8 4.1W **¶16341353**

IDC III 20 16 40 35.3–.81 35.71N 142.00E 0 3.9,3.7

JMA III 20 16 40 37.1–.40 35.84N 142.00E 25 3.9,3.7

ISCJB III 20 16 40 37.3–.50 35.78N–.05 141.95E–.06 23 4.2b,3.8s

NEIC III 20 16 40 43.4–.83 36.26N 141.55E 24–4 4.6b,3.8s

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ33.00000°,λ110.00000°. NP2:ϕ_s151.00000°,δ60.00000°,λ78.00000°. $M_0$1.36000×10^{15}

IDC Error ellipse: s-maj=21.7km s-min=16.0km az=112.0.

JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.

ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=6.2km az=150.8.

NEIC Event type se. Error ellipse: s-maj=16.3km s-min=13.6km az=159.0.

ISC III 20 16 56 07.1–2.0 36.13N–.04 141.91E–.08 1–11 3.3b 25 1-60

IDC III 20 16 56 06.4–2.4 36.07N 142.16E 0 3.4,3.4L **¶17197501**

JMA III 20 16 56 09.7–.20 36.23N 141.96E 58 3.2,3.4L

ISC Event type ke.

IDC Error ellipse: s-maj=60.4km s-min=23.5km az=63.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 20 16 57 13.2–.90 39.11N–.06 142.40E–.08 27 3.6b 21 1-63

ISCJB III 20 16 57 11.3–.74 39.10N–.06 142.54E–.07 27 3.5b **¶17197502**

JMA III 20 16 57 13.9–.10 39.19N 142.43E 34–1 4.0

IDC III 20 16 57 14.0–.97 39.06N 142.31E 34–7 3.6,3.6

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=7.4km az=13.8.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=29.1km s-min=16.7km az=94.0.

IDC III 20 17 34 26.5–2.6 39.47N 142.29E 0 4.4L,4.3 ¶16479776

IDC Error ellipse: s-maj=59.2km s-min=30.4km az=148.0.

ISC III 20 17 42 23.2–.73 38.90N–.06 142.10E–.08 51 4.1b 43 1-81

NIED III 20 17 42 00 38.90N 141.90E 47 4.0W **¶602677034**

ISCJB III 20 17 42 21.9–.55 38.95N–.04 142.14E–.07 51 4.1b

NEIC III 20 17 42 24.6–1.1 38.96N 141.95E 58–9 4.4b

JMA III 20 17 42 24.7–.10 38.93N 141.91E 51–1 4.0

IDC III 20 17 42 26.0–2.7 38.95N 141.99E 69–22 4.0,3.8

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ19.00000°,λ99.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ87.00000°. $M_0$1.16000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.2km az=35.1.

NEIC Event type se. Error ellipse: s-maj=15.7km s-min=8.1km az=109.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=25.0km s-min=14.0km az=91.0.

ISC III 20 17 46 14.4–1.4 36.06N–.05 141.90E–.10 23 3.3b 21 1-56

IDC III 20 17 46 10.3–2.8 36.02N 142.15E 0 3.4,3.3 **¶17197511**

ISCJB III 20 17 46 12.2–.95 36.06N–.05 142.00E–.08 23 3.2b,3.3

JMA III 20 17 46 13.1–.20 36.11N 141.93E 61 3.0,3.3

ISC Event type ke.

IDC Error ellipse: s-maj=63.6km s-min=27.1km az=67.0.

ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.5km az=174.0.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

JMA III 20 18 12 17.4 36.79N 140.54E 11–1 2.4 ¶603049955

ISC III 20 18 12 23.8–1.9 37.74N–.05 141.84E–.08 27–13 3.5b 24 1-89

IDC III 20 18 12 19.2–.96 37.64N 141.93E 0 3.7,3.5 **¶17197516**

JMA III 20 18 12 25.5–.20 37.75N 141.74E 40–5 3.6,3.5

ISC Event type ke.

IDC Error ellipse: s-maj=28.6km s-min=21.5km az=66.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC III 20 18 13 11.2–5.4 37.10N 141.29E 0 3.7,3.6 ¶17197522

IDC Error ellipse: s-maj=199.8km s-min=24.0km az=66.0.

ISC III 20 18 18 32.8–1.4 38.90N–.06 142.1E–.10 35 3.4b 15 1-63

NIED III 20 18 18 00 38.90N 142.10E 50 3.7W **¶17197523**

IDC III 20 18 18 24.4–2.6 39.11N 142.78E 0 3.5,3.3

ISCJB III 20 18 18 30.9–1.1 38.87N–.06 142.3E–.10 35 3.4b,3.3

JMA III 20 18 18 33.3–.10 38.90N 142.06E 40–1 3.6,3.3

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ51.00000°,λ-179.00000°. NP2:ϕ_s68.00000°,δ90.00000°,λ-39.00000°. $M_0$4.16000×10^{14}

IDC Error ellipse: s-maj=68.7km s-min=32.6km az=61.0.

ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=7.9km az=169.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 20 18 25 11.9–2.3 39.58N–.05 142.88E–.07 1–12 3.6b 30 1-73

IDC III 20 18 25 09.0–2.1 39.73N 143.51E 0 3.7,3.6b **¶17197525**

JMA III 20 18 25 14.0–.20 39.60N 142.84E 13–3 4.2,3.6b

ISC Event type ke.

IDC Error ellipse: s-maj=51.5km s-min=26.2km az=78.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 20 18 26 30.3–1.9 34.92N–.05 140.94E–.07 16–12 3.6b 26 0-79

IDC III 20 18 26 28.0–.77 34.90N 140.98E 0 3.9,3.8 **¶17197526**

JMA III 20 18 26 30.8–.10 34.97N 141.04E 40–3 3.3,3.8

ISC Event type ke.

IDC Error ellipse: s-maj=23.8km s-min=15.3km az=94.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 20 18 33 16.8–3.6 38.14N–.05 142.40E–.06 14–22 3.7b 37 1-145

NIED III 20 18 33 00 38.20N 142.30E 26 3.8W **¶17197527**

IDC III 20 18 33 14.7–.65 38.12N 142.45E 0 3.9,3.8

JMA III 20 18 33 18.5–.20 38.16N 142.34E 37 4.0,3.8

ISCJB III 20 18 33 18.1–1.2 38.14N–.05 142.41E–.09 34–10 3.7b,3.8

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ42.00000°,λ-100.00000°. NP2:ϕ_s187.00000°,δ49.00000°,λ-81.00000°. $M_0$6.33000×10^{14}

JMA Event type fe.

ISCJB Event type fe.

ISC III 20 18 36 30.8–3.7 36.86N–.07 141.2E–.10 16–27 17 0-44

IDC III 20 18 36 32.3–4.6 36.85N 140.89E 0 3.7b,3.5 **¶602676227**

JMA III 20 18 36 32.4–.10 36.86N 141.12E 49–1 3.3,3.5

ISC Event type ke.

IDC Error ellipse: s-maj=70.3km s-min=41.3km az=131.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 20 18 43 44.7–.66 38.26N–.05 141.95E–.05 48–5 4.4b 106 1-146

NIED III 20 18 43 00 38.30N 141.90E 56 4.3W **¶16479798**

BJI III 20 18 43 33.6 37.99N 142.72E 20 4.7b,4.7b

ISCJB III 20 18 43 43.1–.65 38.20N–.03 141.99E–.06 50–4 4.4b,3.9s

NEIC III 20 18 43 43.6–.47 38.28N 142.01E 35 4.6b,3.9s

IDC III 20 18 43 45.3–.64 38.28N 141.86E 47–6 4.3,4.2

JMA III 20 18 43 45.1–.10 38.28N 141.89E 47–2 4.3,4.2

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ23.00000°,λ103.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ84.00000°. $M_0$3.59000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.1km az=21.5.

NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.1km az=126.0.

IDC Error ellipse: s-maj=13.9km s-min=11.9km az=114.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 20 18 47 38.3–.75 38.77N–.08 142.29E–.08 35 3.8b 24 1-145

ISCJB III 20 18 47 36.5–.64 38.77N–.06 142.32E–.06 35 3.7b **¶17197530**

JMA III 20 18 47 38.1–.10 38.73N 142.17E 32–2 4.0

IDC III 20 18 47 42.8–3.0 38.70N 142.12E 80–27 3.8,3.7

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.6km az=153.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=21.4km s-min=17.8km az=140.0.

ISC III 20 18 52 00.2–2.1 35.80N–.07 141.1E–.20 30–9 12 0-45

IDC III 20 18 51 57.7–11 36.37N 141.29E 0 3.3,3.3b **¶602676207**

ISCJB III 20 18 52 00.4–1.6 35.78N–.09 141.1E–.20 37–10 3.1b,3.3b

JMA III 20 18 52 01.4–.10 35.74N 140.97E 34–1 3.0,3.3b

ISC Event type ke.

IDC Error ellipse: s-maj=197.1km s-min=74.8km az=146.0.

ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=13.3km az=160.8.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 20 19 06 24.4–.53 35.69N–.05 141.81E–.06 22 3.9b 47 1-147

NIED III 20 19 06 00 35.90N 141.80E 17 3.7W **¶16479809**

IDC III 20 19 06 21.6–.64 35.71N 141.74E 0 4.0,3.9

NEIC III 20 19 06 22.8–.38 35.74N 141.77E 10 4.1b,3.9

ISCJB III 20 19 06 22.6–.41 35.71N–.04 141.87E–.05 22 4.1s,3.8b

JMA III 20 19 06 24.7–.30 35.86N 141.77E 23–3 3.7,3.8b

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ37.00000°,λ1.00000°. NP2:ϕ_s82.00000°,δ90.00000°,λ127.00000°. $M_0$4.11000×10^{14}

IDC Error ellipse: s-maj=18.5km s-min=14.6km az=93.0.

NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.7km az=96.0.

ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.3km az=18.7.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 20 19 54 20.0–.54 37.32N–.03 141.09E–.04 28–3 4.8b,3.9s 216 0-147

NIED III 20 19 54 00 37.30N 141.20E 20 4.4W,3.9s **¶16339781**

ISCJB III 20 19 54 19.5–.42 37.29N–.02 141.17E–.04 41–3 4.7b,3.8s

MOS III 20 19 54 19.2–1.2 37.42N 141.16E 35 5.0b,3.8s

JMA III 20 19 54 20.2–.10 37.31N 141.12E 29–1 4.6,3.8s

IDC III 20 19 54 21.1–3.9 37.38N 141.00E 33–30 4.5,4.4b

NEIC III 20 19 54 22.3–.71 37.37N 140.98E 43–6 4.8b,4.4b

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ6.00000°,λ-96.00000°. NP2:ϕ_s234.00000°,δ84.00000°,λ-89.00000°. $M_0$5.10000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=17.4.

MOS Error ellipse: s-maj=8.0km s-min=5.2km az=96.9.

JMA Event type fe.

IDC Error ellipse: s-maj=13.5km s-min=9.2km az=88.0.

NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.9km az=116.0. Recorded [4 JMA] in Fukushima.

ISC III 20 20 03 08.2–3.5 37.30N–.05 141.88E–.07 17–21 3.5b 27 1-74

NIED III 20 20 03 00 37.30N 141.80E 11 3.5W **¶17197544**

IDC III 20 20 03 05.4–.87 37.33N 142.00E 0 3.7,3.6

ISCJB III 20 20 03 06.6–1.7 37.27N–.05 141.99E–.08 20–10 3.5b,3.6

JMA III 20 20 03 09.8–.40 37.33N 141.79E 29–5 3.8,3.6

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ36.00000°,λ-141.00000°. NP2:ϕ_s44.00000°,δ68.00000°,λ-61.00000°. $M_0$2.24000×10^{14}

IDC Error ellipse: s-maj=24.1km s-min=17.7km az=91.0.

ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.4km az=168.5.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC III 20 20 05 28.1–.49 37.09N–.04 141.24E–.05 53–4 4.4b,3.7s 141 0-147

NIED III 20 20 05 00 37.10N 141.20E 53 4.4W,3.7s **¶16339782**

ISCJB III 20 20 05 26.1–.50 37.07N–.03 141.30E–.05 54–3 4.4b,3.7s

IDC III 20 20 05 28.6–.54 37.09N 141.08E 54–4 4.3,4.2

NEIC III 20 20 05 28.1–.72 37.11N 141.23E 54–6 4.5b,4.2

JMA III 20 20 05 28.3–.10 37.10N 141.12E 52–1 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ38.00000°,λ100.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ82.00000°. $M_0$4.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=7.5.
IDC Error ellipse: s-maj=12.8km s-min=8.8km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=98.0. Recorded [3 JMA] in Fukushima and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 20 17 56.0–.39 36.99N–.04 141.95E–.03 27–2 4.9b,4.5s 379 1-155
NIED III 20 20 17 00 36.90N 141.90E 26 4.9W,4.5s **¶16339783**
ISCJB III 20 20 17 53.7–.67 37.03N–.03 141.93E–.03 18–4 4.8b,4.5s
BJI III 20 20 17 55.1 36.95N 141.84E 30 5.0b,4.7b
JMA III 20 20 17 55.2–.40 36.94N 141.90E 29–4 4.8,4.7b
IDC III 20 20 17 56.4–4.4 36.89N 141.99E 31–32 4.6,4.5
GCMT III 20 20 17 56.8–.40 36.94N 142.04E 24 4.9W,4.5
NEIC III 20 20 17 56.8–.19 36.85N 141.88E 35 5.0b,4.5
MOS III 20 20 17 57.3–1.0 37.35N 141.91E 35 5.1b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ19.00000°,λ22.00000°. NP2:ϕ_s56.00000°,δ83.00000°,λ108.00000°. $M_0$2.13000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.1km az=153.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.1km az=107.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c16; s60,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.03±.15 $M_{\theta\theta}$0.63±.10; $M_{\phi\phi}$-0.60±.08; $M_{r\theta}$2.34±.12; $M_{\theta\phi}$-0.36±.06; $M_{\phi r}$1.81±.10; Best double couple: NP1:ϕ_s53.00000°,δ89.00000°,λ103.00000°. NP2:ϕ_s146.00000°,δ13.00000°,λ2.00000°. Principal axes:
T 2.9390,Plg44.0000°,Azm336.0000°; N 0.1980,Plg13.0000°,Azm233.0000°
; P -3.1380,Plg43.0000°,Azm131.0000° $M_0$3.03800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=146.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=100.4.
ISC III 20 20 33 43.4–3.2 38.7N–.10 142.4E–.20 52–36 13 1-59
IDC III 20 20 33 45.3–1.6 37.21N 142.97E 0 3.5,3.3b **¶17197546**
ISCJB III 20 20 33 45.7–2.2 38.77N–.06 142.2E–.10 26–9 3.4b,3.3b
JMA III 20 20 33 46.1–.10 38.78N 142.18E 32–2 3.4,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=32.0km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=9.2km az=14.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 20 20 41 37.3–.55 38.11N–.05 142.41E–.06 14 3.9b 42 1-145
NIED III 20 20 41 00 38.20N 142.50E 32 3.9W **¶17197547**
ISCJB III 20 20 41 35.7–.42 38.10N–.04 142.56E–.05 14 3.9b
JMA III 20 20 41 36.3–.50 38.16N 142.47E 10–4 3.9
IDC III 20 20 41 41.8–2.6 38.11N 142.43E 47–25 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ37.00000°,λ-126.00000°. NP2:ϕ_s134.00000°,δ61.00000°,λ-66.00000°. $M_0$7.14000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.1km az=163.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=13.9km az=98.0.
ISC III 20 20 44 27.6–2.2 36.14N–.04 140.99E–.06 11–14 3.6b 28 0-147
NIED III 20 20 44 00 36.10N 141.00E 26 3.8W **¶16341117**
ISCJB III 20 20 44 28.0–.83 36.14N–.03 141.06E–.07 26–5 3.6b
JMA III 20 20 44 29.1–.10 36.09N 140.93E 36–1 3.8
IDC III 20 20 44 31.6–3.5 36.08N 140.87E 40–32 3.9L,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ20.00000°,λ-47.00000°. NP2:ϕ_s178.00000°,δ75.00000°,λ-104.00000°. $M_0$5.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.6km az=176.7.
JMA Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=18.1km az=68.0.
ISC III 20 20 46 22.8–1.4 37.69N–.05 141.66E–.09 54–12 3.9b 45 1-146
ISCJB III 20 20 46 22.2–.80 37.69N–.04 141.63E–.09 64–6 3.8b **¶17197548**
IDC III 20 20 46 22.4–2.5 37.71N 141.57E 50–25 3.9,3.8
JMA III 20 20 46 23.3–.10 37.73N 141.60E 55–2 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=6.9km az=13.4.
IDC Error ellipse: s-maj=17.2km s-min=15.4km az=104.0.
JMA Event type fe.
JMA III 20 21 04 04.9–.10 37.40N 141.49E 25–2 3.2 ¶602675921
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 21 04 08.4–1.7 36.50N–.08 141.0E–.10 49–11 3.5b 18 0-56
IDC III 20 21 03 59.5–2.6 36.83N 141.65E 0 3.6,3.6b **¶17197553**
ISCJB III 20 21 04 07.5–1.3 36.48N–.07 141.1E–.10 55–8 3.5b,3.6b
JMA III 20 21 04 10.4–.10 36.52N 140.84E 50–1 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=63.2km s-min=32.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=9.5km az=32.3.
JMA Event type fe.
JMA III 20 21 31 50.4–.10 38.30N 141.95E 45–2 3.5 ¶602676491
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 21 40 12.4–1.4 37.5N–.10 141.7E–.10 35 3.4b 8 1-63
NIED III 20 21 40 00 37.60N 142.10E 44 3.6W **¶17197555**
IDC III 20 21 40 04.1–1.9 36.46N 142.46E 0 3.7L,3.6
JMA III 20 21 40 06.7–.40 37.57N 142.08E 23 3.5,3.6
ISCJB III 20 21 40 10.2–1.2 37.37N–.08 141.72E–.09 35 3.3b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ32.00000°,λ-95.00000°. NP2:ϕ_s123.00000°,δ58.00000°,λ-87.00000°. $M_0$3.30000×10^{14}
ISCJB Event type ke.
ISC III 20 21 46 21.7–1.5 37.26N–.05 141.28E–.05 20–6 3.6b 27 0-147
NIED III 20 21 46 00 37.40N 141.30E 41 3.8W **¶17197560**
IDC III 20 21 46 18.8–.99 37.29N 141.32E 0 3.9,3.7
ISCJB III 20 21 46 21.2–1.1 37.33N–.05 141.46E–.07 26–6 3.6b,3.7
JMA III 20 21 46 23.2–.10 37.35N 141.32E 31–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ35.00000°,λ-71.00000°. NP2:ϕ_s222.00000°,δ57.00000°,λ-103.00000°. $M_0$5.00000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=21.3km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=8.1km az=23.9.
JMA Event type fe.
ISC III 20 21 53 20.8–1.1 37.36N–.07 141.52E–.09 60 3.6b 16 1-63
NIED III 20 21 53 00 37.40N 141.70E 5 3.5W **¶600559601**
IDC III 20 21 53 13.6–1.2 37.38N 141.67E 0 3.6,3.5b
JMA III 20 21 53 17.4–.40 37.37N 141.66E 29 3.6,3.5b
ISCJB III 20 21 53 18.8–.87 37.31N–.05 141.52E–.08 60 3.5b,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ33.00000°,λ-41.00000°. NP2:ϕ_s198.00000°,δ69.00000°,λ-116.00000°. $M_0$1.99000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 20 22 02 55.6–1.5 37.22N–.09 141.84E–.09 19 3.7s,3.4b 14 1-76
IDC III 20 22 02 50.6–1.4 37.43N 142.37E 0 3.7s,3.7 **¶17197563**
ISCJB III 20 22 02 52.7–1.1 37.14N–.07 141.97E–.07 19 3.7s,3.4b
NIED III 20 22 03 00 37.20N 141.40E 5 4.2W,3.4b
JMA III 20 22 03 04.3–.20 37.20N 141.35E 48–2 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=29.1km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=8.2km az=173.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ31.00000°,λ77.00000°. NP2:ϕ_s242.00000°,δ60.00000°,λ98.00000°. $M_0$2.08000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 22 06 03.3–1.9 37.40N–.06 141.49E–.07 15–10 3.6b 20 1-90
IDC III 20 22 06 00.9–1.2 37.45N 141.43E 0 3.7,3.5 **¶17197564**
ISCJB III 20 22 06 02.9–1.3 37.36N–.05 141.54E–.07 22–7 3.5b,3.5
JMA III 20 22 06 05.3–.10 37.39N 141.39E 26–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=26.0km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=8.2km az=23.9.
ISC III 20 22 21 07.1–2.0 38.34N–.08 142.4E–.10 24 3.5b 9 1-58
IDC III 20 22 21 07.2–2.6 37.83N 143.11E 0 3.6,3.5b **¶17197567**
JMA III 20 22 21 10.5–.30 38.51N 142.30E 37–5 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=67.0km s-min=31.6km az=68.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 20 22 39 04.5–1.5 36.22N–.05 141.11E–.09 31 3.6b 11 1-56
ISCJB III 20 22 39 03.8–1.2 36.20N–.05 141.12E–.10 31 3.5b **¶17197570**
IDC III 20 22 39 04.0–1.6 35.70N 140.93E 0 3.6,3.5b
JMA III 20 22 39 04.7 36.20N 141.04E 36–1 3.4,3.5b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=6.9km az=162.4.
IDC Error ellipse: s-maj=38.0km s-min=31.1km az=63.0.
JMA Event type fe.
ISC III 20 22 43 41.9–.60 36.61N–.05 141.9E–.10 35–4 3.9b,3.2s 38 1-147
NIED III 20 22 43 00 36.70N 141.80E 29 4.0W,3.2s **¶16462029**
ISCJB III 20 22 43 40.6–1.2 36.54N–.05 141.92E–.09 40–10 3.9b,3.6s
JMA III 20 22 43 41.4–.20 36.66N 141.83E 56–5 4.2,3.6s
IDC III 20 22 43 44.3–2.5 36.56N 141.80E 56–21 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ47.00000°,λ-113.00000°. NP2:ϕ_s106.00000°,δ48.00000°,λ-67.00000°. $M_0$1.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=7.8km az=5.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=14.0km az=94.0.
JMA III 20 23 14 10.8–.10 37.32N 141.12E 31–1 3.7
NIED III 20 23 14 00 37.30N 141.10E 11 4.0W **¶603049956**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ35.00000°,λ31.00000°. NP2:ϕ_s99.00000°,δ73.00000°,λ121.00000°. $M_0$1.09000×10^{15}
ISC III 20 23 23 11.7–1.2 39.00N–.07 142.47E–.08 27 3.5b 15 1-63
IDC III 20 23 23 07.4–1.4 38.88N 142.65E 0 3.5,3.3 **¶17197577**
ISCJB III 20 23 23 09.8–.89 38.95N–.06 142.57E–.08 27 3.4b,3.3
JMA III 20 23 23 11.5–.10 38.98N 142.46E 26–2 3.3,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.8km s-min=28.6km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.6km az=140.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 20 23 41 20.2–.10 39.13N 142.38E 29–1 3.7
NIED III 20 23 41 00 39.10N 142.40E 5 3.7W **¶600559683**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ34.00000°,λ-130.00000°. NP2:ϕ_s146.00000°,δ65.00000°,λ-66.00000°. $M_0$4.23000×10^{14}
ISC III 20 23 43 12.3–1.1 37.21N–.04 141.05E–.05 14–6 4.4b,3.4s 67 0-147
NIED III 20 23 43 00 37.20N 141.10E 5 4.0W,3.4s **¶16462012**
IDC III 20 23 43 10.0–.67 37.23N 141.05E 0 4.3,4.2
ISCJB III 20 23 43 11.3–.99 37.22N–.04 141.21E–.07 20–5 4.2b,3.4s
JMA III 20 23 43 12.5 37.24N 141.09E 15–1 4.4,3.4s
NEIC III 20 23 43 17.3–.87 37.21N 141.04E 54–7 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s269.00000°,δ45.00000°,λ-56.00000°. NP2:ϕ_s45.00000°,δ54.00000°,λ-119.00000°. $M_0$1.30000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=16.9km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.0km az=24.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=7.0km az=141.0. Recorded [3 JMA] in Fukushima.
ISC III 21 00 00 25.5–2.5 36.59N–.05 141.99E–.08 28–17 4.2b,3.4s 59 1-90
JMA III 21 00 00 23.1–.40 36.71N 142.14E 26 4.2,3.4s **¶602681909**
ISCJB III 21 00 00 23.2–1.7 36.56N–.04 142.11E–.05 27–12 4.0b,3.6s
NEIC III 21 00 00 26.8–.70 36.58N 142.02E 40–6 4.3b,3.6s
IDC III 21 00 00 27.2–2.0 36.61N 142.00E 41–18 4.1,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.7km az=157.1.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.8km az=96.0.
IDC Error ellipse: s-maj=16.6km s-min=13.9km az=96.0.
JMA III 21 00 13 44.5 37.38N 141.19E 9–1 2.6 ¶603145382
ISC III 21 00 16 36.9–2.4 38.74N–.06 142.1E–.20 51 3.4b 15 1-59
JMA III 21 00 16 34.8–.10 38.73N 142.15E 32–2 4.0 **¶17197592**
IDC III 21 00 16 38.8–1.2 39.18N 140.97E 0 3.5,3.4b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.8km s-min=20.2km az=112.0.
JMA III 21 00 33 19.6–.10 37.24N 141.05E 29–1 3.6 ¶602681838
JMA Event type fe.
ISC III 21 00 37 54.2–.66 36.53N–.05 141.42E–.08 26 3.7b 25 1-75
NIED III 21 00 37 00 36.50N 141.70E 8 4.0W **¶17197595**
IDC III 21 00 37 50.4–.79 36.82N 141.10E 0 3.9,3.8
JMA III 21 00 37 52.3–.30 36.49N 141.67E 30 3.8,3.8
ISCJB III 21 00 37 52.4–.56 36.48N–.04 141.63E–.07 26 3.7b,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s269.00000°,δ62.00000°,λ178.00000°. NP2:ϕ_s360.00000°,δ88.00000°,λ28.00000°. $M_0$1.25000×10^{15}
ISCJB Event type ke.
JMA III 21 00 39 01.4–.20 37.72N 141.72E 33–4 3.6
NIED III 21 00 39 00 37.70N 141.70E 38 4.3W **¶600559724**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ43.00000°,λ176.00000°. NP2:ϕ_s26.00000°,δ87.00000°,λ47.00000°. $M_0$3.25000×10^{15}
ISC III 21 01 02 19.6–1.3 36.95N–.05 141.29E–.10 45–10 4.0b 34 0-147
NIED III 21 01 02 00 36.90N 141.20E 47 4.0W **¶600559742**
ISCJB III 21 01 02 18.1–.98 36.93N–.04 141.3E–.10 50–6 3.9b
JMA III 21 01 02 19.7–.10 36.94N 141.19E 48–1 3.9
IDC III 21 01 02 22.2–2.5 36.88N 141.08E 69–22 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ21.00000°,λ94.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ89.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=6.8km az=2.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=11.9km az=73.0.
ISC III 21 01 04 02.5–1.3 39.02N–.07 142.36E–.09 27 3.7b 13 1-59
IDC III 21 01 03 58.2–1.4 38.91N 142.33E 0 3.9,3.6 **¶17197598**
NIED III 21 01 04 00 39.10N 142.40E 35 3.6W,3.6
ISCJB III 21 01 04 01.1–1.0 39.01N–.07 142.45E–.08 27 3.6b,3.6
JMA III 21 01 04 02.9–.10 39.05N 142.36E 28–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=31.3km az=96.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ13.00000°,λ55.00000°. NP2:ϕ_s13.00000°,δ80.00000°,λ97.00000°. $M_0$2.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=9.1km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 21 01 10 09.3–.10 35.78N 140.80E 6–2 3.7
NIED III 21 01 10 00 35.80N 140.80E 8 3.7W **¶600559750**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ41.00000°,λ-30.00000°. NP2:ϕ_s144.00000°,δ71.00000°,λ-127.00000°. $M_0$4.15000×10^{14}
ISC III 21 01 24 32.4–1.1 36.87N–.04 140.65E–.07 12–8 4.0s,3.7b 15 0-85
NIED III 21 01 24 00 36.90N 140.60E 5 3.6W,3.7b **¶602682377**
IDC III 21 01 24 30.6–1.7 36.85N 140.64E 0 4.1s,4.1
ISCJB III 21 01 24 31.2–.98 36.85N–.04 140.79E–.08 18–6 4.1s,3.6b
JMA III 21 01 24 32.5 36.88N 140.63E 9–1 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ44.00000°,λ-111.00000°. NP2:ϕ_s209.00000°,δ50.00000°,λ-71.00000°. $M_0$2.67000×10^{14}
IDC Error ellipse: s-maj=25.0km s-min=19.9km az=8.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=16.8.

JMA Event type fe.
JMA III 21 01 25 30.6–.10 39.06N 142.36E 29–1 3.6
¶602682376
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 01 30 36.7–.90 38.12N–.06 142.39E–.08 10 4.1b 33 1-89
IDC III 21 01 30 34.0–.78 38.21N 142.72E 0 3.9,3.9b **¶16450708**
JMA III 21 01 30 38.4–.40 38.11N 142.35E 28 4.3,3.9b
NEIC III 21 01 30 38.3–3.6 38.18N 142.70E 28–25 4.3b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=18.0km az=46.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.7km az=70.0.
ISC III 21 01 53 57.2–2.0 36.76N–.05 141.2E–.10 28–12 3.2s 16 0-57
IDC III 21 01 53 47.5–3.3 37.44N 141.71E 0 3.5,3.4b **¶17197606**
ISCJB III 21 01 53 57.9–1.3 36.74N–.05 141.2E–.10 46–10 3.4s,3.3b
JMA III 21 01 53 59.6–.10 36.77N 141.01E 48–1 3.5,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=69.5km s-min=39.4km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=7.8km az=17.2.
JMA Event type fe.
ISC III 21 02 07 26.2–2.3 35.94N–.06 141.1E–.10 11–12 3.3b 15 0-56
IDC III 21 02 07 22.9–2.8 35.99N 141.41E 0 3.5,3.3 **¶17197608**
ISCJB III 21 02 07 25.1–1.7 35.85N–.06 141.23E–.09 13–8 3.3b,3.3
JMA III 21 02 07 29.1–.10 35.85N 140.93E 11–1 3.3,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=81.2km s-min=28.8km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=9.8km az=179.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 21 02 54 16.3–.10 37.56N 141.91E 18–2 2.9
¶602682230
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 03 14 08.7–.58 38.89N–.05 142.06E–.07 51 4.3b,3.5s 61 1-81
NIED III 21 03 14 00 38.90N 142.00E 53 4.3W,3.5s **¶16450711**
ISCJB III 21 03 14 07.1–.43 38.91N–.04 142.10E–.05 51 4.3b,3.4s
JMA III 21 03 14 09.4–.10 38.90N 141.96E 50–1 4.1,3.4s
NEIC III 21 03 14 10.1–1.0 38.92N 142.03E 61–8 4.7b,3.4s
IDC III 21 03 14 11.6–1.9 38.86N 141.99E 77–16 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ24.00000°,λ66.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ100.00000°. $M_0$2.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.9km az=43.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.7km az=113.0.
IDC Error ellipse: s-maj=17.2km s-min=13.6km az=95.0.
ISC III 21 03 21 48.1–1.1 35.63N–.06 140.83E–.10 44–8 3.4b 14 0-56
IDC III 21 03 21 41.8–2.4 35.57N 141.04E 0 3.4,3.4 **¶17197614**
JMA III 21 03 21 47.8–.10 35.67N 140.73E 46–2 2.8,3.4
ISCJB III 21 03 21 47.2–.90 35.63N–.05 140.8E–.10 50–5 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 21 03 21 50.1–5.5 38.43N 142.58E 0 3.9,3.7
¶17197615
IDC Error ellipse: s-maj=505.8km s-min=30.5km az=112.0.
ISC III 21 03 58 14.1–1.5 37.35N–.06 141.2E–.10 35 3.6b 12 0-57
IDC III 21 03 58 09.0–2.5 37.18N 141.26E 0 3.7,3.6b **¶17197618**
ISCJB III 21 03 58 12.1–1.3 37.36N–.06 141.3E–.10 35 3.7b,3.6b
JMA III 21 03 58 14.2–.10 37.39N 141.24E 27–1 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=59.2km s-min=29.1km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=9.0km az=0.3.
JMA Event type fe.
JMA III 21 04 05 52.2–.20 39.66N 142.68E 23–3 3.6
NIED III 21 04 05 00 39.70N 142.70E 65 4.3W **¶600559877**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ28.00000°,λ161.00000°. NP2:ϕ_s65.00000°,δ82.00000°,λ64.00000°. $M_0$3.28000×10^{15}
ISC III 21 04 06 44.2–.89 37.24N–.05 141.81E–.07 24 3.5b 19 1-64
NIED III 21 04 06 00 37.30N 141.80E 8 3.5W **¶17197619**
IDC III 21 04 06 40.8–1.1 37.30N 141.84E 0 3.8,3.6
ISCJB III 21 04 06 42.1–.72 37.23N–.05 141.95E–.07 24 3.5b,3.6
JMA III 21 04 06 44.8–.20 37.27N 141.83E 31–3 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ40.00000°,λ-50.00000°. NP2:ϕ_s9.00000°,δ60.00000°,λ-118.00000°. $M_0$1.89000×10^{14}
IDC Error ellipse: s-maj=26.8km s-min=20.8km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.1km az=137.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 21 04 11 40.2 36.68N 140.60E 8–1 2.9
¶603049960
JMA Event type fe.
ISC III 21 04 16 55.3–.94 39.0N–.10 142.6E–.10 27 3.9b 10 9-80
ISCJB III 21 04 16 53.2–.76 39.0N–.10 142.5E–.10 27 3.8b **¶17197622**
IDC III 21 04 17 00.1–5.5 39.06N 142.34E 70–51 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=16.1km az=35.1.
IDC Error ellipse: s-maj=25.0km s-min=16.4km az=119.0.
ISC III 21 04 22 27.3–1.2 36.72N–.04 140.62E–.09 10 3.6b 11 0-64
ISCJB III 21 04 22 24.6–1.0 36.64N–.04 140.88E–.08 10 3.5b **¶17197624**
IDC III 21 04 22 25.4–1.1 36.36N 142.95E 0 4.6L,3.8
JMA III 21 04 22 28.1 36.74N 140.60E 7–1 3.7,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.5km az=18.3.
IDC Error ellipse: s-maj=43.8km s-min=21.6km az=114.0.
JMA Event type fe.
ISC III 21 04 44 03.0–1.7 37.44N–.04 141.42E–.08 27–12 3.4b 25 1-63
IDC III 21 04 43 59.0–1.0 37.44N 141.28E 0 3.7,3.7L **¶17197628**
NIED III 21 04 44 00 37.50N 141.40E 41 3.8W,3.7L
ISCJB III 21 04 44 01.1–1.2 37.42N–.04 141.58E–.07 25–7 3.4b,3.7L
JMA III 21 04 44 03.4–.10 37.46N 141.43E 27–2 3.8,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=32.5km s-min=19.5km az=106.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ59.00000°,λ-35.00000°. NP2:ϕ_s230.00000°,δ61.00000°,λ-144.00000°. $M_0$5.61000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.0km az=6.0.
ISC III 21 04 51 12.3–.94 36.72N–.09 141.94E–.07 19 3.6b 17 1-90
IDC III 21 04 51 10.2–.90 36.66N 142.44E 0 3.8,3.7 **¶17197629**
JMA III 21 04 51 13.5–.30 36.92N 142.06E 29–4 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=20.5km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 21 04 51 43.2–.93 37.26N–.07 141.82E–.06 19 3.9b 16 1-63
IDC III 21 04 51 40.5–.98 37.09N 142.40E 0 4.0,3.8 **¶17197632**
ISCJB III 21 04 51 41.1–.76 37.22N–.04 141.99E–.05 19 3.7b,3.8
JMA III 21 04 51 45.5–.10 37.26N 141.79E 35–3 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=18.4km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.9km az=37.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 21 05 01 30.7–.20 38.45N 142.29E 25–3 3.7
¶602681647
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 05 06 18.4–.00 35.76N–.08 141.76E–.07 23 3.7b 15 1-65
NIED III 21 05 06 00 35.90N 141.80E 11 3.9W **¶17197633**
IDC III 21 05 06 14.7–.95 35.67N 141.80E 0 3.8,3.7
ISCJB III 21 05 06 16.2–.80 35.76N–.07 141.87E–.06 23 3.7s,3.7b
JMA III 21 05 06 17.3–.20 35.85N 141.76E 20–3 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ56.00000°,λ-148.00000°. NP2:ϕ_s200.00000°,δ64.00000°,λ-38.00000°. $M_0$7.38000×10^{14}
IDC Error ellipse: s-maj=27.7km s-min=21.8km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.5km az=176.1.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 21 05 08 04.2–.49 36.22N–.03 141.66E–.03 23–3 5.2b,4.3s 1120 1-158
IDC III 21 05 08 00.4–.37 36.18N 141.55E 0 5.0,4.9L **¶602681629**
BJI III 21 05 08 00.9 36.20N 141.60E 18 4.9b,4.8b
NIED III 21 05 08 00 36.20N 141.70E 23 4.8W,4.8b
ISCJB III 21 05 08 03.7–.69 36.19N–.02 141.52E–.02 29–4 5.1b,4.3s
JMA III 21 05 08 04.2–.20 36.24N 141.58E 49–4 5.0,4.3s
MOS III 21 05 08 05.1–.80 36.38N 141.47E 34 5.3b,4.3s
GCMT III 21 05 08 06.2–.40 36.18N 141.52E 31–1 4.9W,4.3s
NEIC III 21 05 08 06.2–.42 36.19N 141.46E 36–3 5.3b,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=11.0km s-min=9.7km az=77.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ42.00000°,λ-136.00000°. NP2:ϕ_s123.00000°,δ62.00000°,λ-57.00000°. $M_0$1.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.5km az=161.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=106.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c37; s72,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.09±.17 $M_{\theta\theta}$2.69±.11; $M_{\phi\phi}$-0.59±.10; $M_{r\theta}$-0.86±.13; $M_{\theta\phi}$-0.22±.08; $M_{\phi r}$1.23±.13; Best double couple: NP1:ϕ_s119.00000°,δ61.00000°,λ-60.00000°. NP2:ϕ_s249.00000°,δ40.00000°,λ-132.00000°. Principal axes: T 2.8950,Plg11.0000°,Azm188.0000°; N -0.0350,Plg26.0000°,Azm283.0000° ; P -2.8580,Plg61.0000°,Azm76.0000° $M_0$2.87700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=143.0. Recorded [3 JMA] in Ibaraki.
JMA III 21 05 08 05.8–.10 37.35N 141.34E 46–1 3.8
¶602443761
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 21 05 15 08.5 36.82N 140.57E 5–1 3.6
¶602681622
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s204.00000°,δ87.00000°,λ-79.00000°. NP2:ϕ_s310.00000°,δ11.00000°,λ-164.00000°. Principal axes: T Plg41.0000°,Azm284.0000°; N Plg11.0000°,Azm23.0000°; P Plg47.0000° ,Azm125.0000°
ISC III 21 05 31 12.8–1.9 36.71N–.06 141.81E–.06 13–11 3.9b 46 1-147
NIED III 21 05 31 00 36.80N 141.90E 35 4.1W **¶16479921**
IDC III 21 05 31 11.0–.66 36.71N 141.82E 0 4.0,4.0
JMA III 21 05 31 13.2–.20 36.76N 141.88E 65–5 3.9,4.0
NEIC III 21 05 31 16.0–.38 36.70N 141.82E 35 4.1b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ31.00000°,λ106.00000°. NP2:ϕ_s25.00000°,δ60.00000°,λ80.00000°. $M_0$1.52000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=15.5km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=8.1km az=131.0.
JMA III 21 05 37 02.3–.10 35.84N 140.93E 10–1 3.5
NIED III 21 05 37 00 35.80N 140.90E 8 3.6W **¶602681100**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ45.00000°,λ-41.00000°. NP2:ϕ_s155.00000°,δ62.00000°,λ-128.00000°. $M_0$2.44000×10^{14}
ISC III 21 06 01 32.7–1.2 36.0N–.10 141.94E–.10 23 3.8b 12 1-60
IDC III 21 06 01 29.0–1.2 36.04N 142.17E 0 3.7,3.6b **¶600560049**
ISCJB III 21 06 01 30.5–.92 36.01N–.10 142.03E–.08 23 3.6b,3.6b
JMA III 21 06 01 32.0–.30 36.02N 141.99E 51 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=23.2km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=8.2km az=162.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 21 06 58 06.1–.20 38.45N 142.35E 32–4 3.5
¶603049961
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 21 07 33 55.9–2.1 36.57N–.06 141.2E–.10 29–11 3.6b 20 0-86
NIED III 21 07 33 00 36.60N 141.10E 50 3.6W **¶17197646**
IDC III 21 07 33 50.1–2.5 36.63N 141.57E 0 3.7,3.6b
ISCJB III 21 07 33 56.0–1.4 36.58N–.06 141.2E–.10 45–8 4.2s,3.6b
JMA III 21 07 33 57.3–.10 36.60N 141.08E 46–2 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ13.00000°,λ127.00000°. NP2:ϕ_s23.00000°,δ80.00000°,λ82.00000°. $M_0$3.25000×10^{14}
IDC Error ellipse: s-maj=65.6km s-min=26.2km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=7.8km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 07 40 42.0–.74 37.12N–.05 141.60E–.07 33 3.8b 24 1-83
NIED III 21 07 40 00 37.20N 141.60E 20 3.8W **¶17197647**
IDC III 21 07 40 36.9–.96 37.08N 141.73E 0 3.9,3.9
ISCJB III 21 07 40 40.0–.59 37.09N–.04 141.71E–.06 33 3.8b,3.9
JMA III 21 07 40 41.8–.20 37.15N 141.60E 46–2 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ24.00000°,λ155.00000°. NP2:ϕ_s220.00000°,δ80.00000°,λ68.00000°. $M_0$4.91000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=17.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.8km az=2.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 21 07 43 04.3–.20 39.48N 142.54E 27–2 3.7
¶602680897
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 21 08 06 22.2–.77 36.47N–.04 141.59E–.04 24–5 4.8b,4.1s 371 1-155
NIED III 21 08 06 00 36.50N 141.60E 8 4.6W,4.1s **¶16340102**
IDC III 21 08 06 18.2–.42 36.44N 141.64E 0 4.7,4.7
ISCJB III 21 08 06 20.2–.68 36.45N–.02 141.58E–.03 20–4 4.8b,4.0s
JMA III 21 08 06 21.5–.20 36.48N 141.56E 45–4 4.6,4.0s
NEIC III 21 08 06 22.1–1.4 36.45N 141.54E 21–10 4.9b,4.0s
BJI III 21 08 06 22.9 36.48N 141.26E 26 4.9b,4.8b
MOS III 21 08 06 24.2–.85 36.87N 141.47E 33 5.0b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ42.00000°,λ58.00000°. NP2:ϕ_s1.00000°,δ56.00000°,λ115.00000°. $M_0$7.68000×10^{15}
IDC Error ellipse: s-maj=12.9km s-min=10.2km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.3km az=149.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.7km az=132.0.
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=110.8.
ISC III 21 08 09 22.2–3.7 39.17N–.05 142.62E–.06 17–23 4.5b,4.2s 54 1-88
NIED III 21 08 09 00 39.20N 142.60E 26 4.3W,4.2s **¶602680799**
ISCJB III 21 08 09 18.9–.37 39.14N–.04 142.74E–.04 10 4.3b,4.2s
IDC III 21 08 09 19.7–.61 39.12N 142.47E 0 4.4,4.3
JMA III 21 08 09 23.0–.20 39.17N 142.57E 24–1 4.5,4.3
NEIC III 21 08 09 26.3–1.2 39.20N 142.63E 50–10 4.6b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ18.00000°,λ73.00000°. NP2:ϕ_s17.00000°,δ73.00000°,λ95.00000°. $M_0$3.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.8km az=0.6.
IDC Error ellipse: s-maj=16.2km s-min=13.9km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.0km az=118.0.
ISC III 21 08 30 27.0–1.3 36.17N–.04 141.84E–.08 23 3.3b 23 1-60
IDC III 21 08 30 24.7–2.0 35.84N 142.06E 0 3.6L,3.4 **¶17197648**
JMA III 21 08 30 25.2–.30 36.18N 142.06E 61 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=47.2km s-min=22.4km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 21 08 36 20.9–.30 39.68N 142.74E 28–4 3.8
¶602680736
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 21 08 48 07.6–.55 36.48N–.05 141.50E–.06 26 4.1b 45 1-147
NIED III 21 08 48 00 36.50N 141.50E 11 4.0W **¶602680531**
IDC III 21 08 48 03.4–.67 36.42N 141.62E 0 4.2,4.1
ISCJB III 21 08 48 05.8–.40 36.42N–.04 141.61E–.04 26 4.0b,2.9s
JMA III 21 08 48 07.6–.20 36.52N 141.51E 49–4 3.8,2.9s
NEIC III 21 08 48 08.9–.42 36.46N 141.56E 35 4.2b,2.9s

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ55.00000°,λ45.00000°. NP2:ϕ_s5.00000°,δ55.00000°,λ135.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=15.1km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.9km az=147.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.6km az=141.0.

ISC	**III**	**21 09 15 27.7–1.8**	**36.55N–.04**	**141.01E–.09**	**26–12**	**3.4b**	**19**	**0-46**
IDC	III	21 09 15 21.8–4.0	36.71N	141.40E	0	3.6,3.5		¶600560371
JMA	III	21 09 15 29.6–.10	36.55N	140.84E	52–1	3.5,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=75.1km s-min=35.1km az=92.0.
JMA Event type fe.

ISC	**III**	**21 09 20 53.8–1.1**	**36.66N–.05**	**140.97E–.09**	**45–8**	**4.1b**	**33**	**0-147**
NIED	III	21 09 20 00	36.60N	141.00E	50	3.9W		¶602680423
ISCJB	III	21 09 20 53.5–.71	36.66N–.04	140.9E–.10	59–4	4.0b		
JMA	III	21 09 20 54.0–.10	36.65N	140.95E	48–1	3.9		
IDC	III	21 09 20 56.3–2.2	36.74N	140.68E	60–21	4.2,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ14.00000°,λ94.00000°. NP2:ϕ_s42.00000°,δ76.00000°,λ89.00000°. $M_0$9.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=6.7km az=10.8.
JMA Event type fe.
IDC Error ellipse: s-maj=25.1km s-min=19.5km az=171.0.

ISC	**III**	**21 09 22 25.3–2.4**	**36.23N–.06**	**141.52E–.09**	**3–14**	**3.7b**	**19**	**1-91**
NIED	III	21 09 22 00	36.20N	141.50E	29	3.8W		¶17197655
IDC	III	21 09 22 23.5–1.3	35.87N	141.46E	0	3.8,3.7		
JMA	III	21 09 22 28.4–.10	36.21N	141.52E	59–3	3.6,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ23.00000°,λ171.00000°. NP2:ϕ_s355.00000°,δ86.00000°,λ67.00000°. $M_0$5.56000×10^{14}
IDC Error ellipse: s-maj=45.4km s-min=26.4km az=55.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**21 09 34 43.7–.20**	**37.43N**	**141.90E**	**28–3**	**3.6**		
								¶602680398

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**21 10 02 43.7–.10**	**36.72N**	**141.06E**	**45–1**	**3.6**		
NIED	III	21 10 02 00	36.70N	141.10E	53	3.7W		¶600560417

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ35.00000°,λ4.00000°. NP2:ϕ_s37.00000°,δ88.00000°,λ125.00000°. $M_0$4.64000×10^{14}

IDC	**III**	**21 10 24 35.0–2.8**	**36.91N**	**141.73E**	**0**	**3.4,3.4b**		
								¶17197661

IDC Error ellipse: s-maj=73.2km s-min=29.6km az=54.0.

ISC	**III**	**21 10 27 11.1–.97**	**36.75N–.04**	**140.54E–.05**	**8–7**	**4.0b**	**37**	**0-91**
NIED	III	21 10 27 00	36.70N	140.60E	5	3.9W		¶16479957
IDC	III	21 10 27 09.9–.67	36.78N	140.52E	0	4.2,4.0		
ISCJB	III	21 10 27 10.5–.63	36.71N–.04	140.66E–.06	16–4	4.0b,4.0		
JMA	III	21 10 27 11.2	36.74N	140.59E	4–1	3.9,4.0		
NEIC	III	21 10 27 15.8–.92	36.81N	140.45E	40–8	4.3b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ31.00000°,λ-144.00000°. NP2:ϕ_s229.00000°,δ72.00000°,λ-64.00000°. $M_0$9.12000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=14.9km az=146.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.4km az=33.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.0km az=142.0.

ISC	**III**	**21 10 33 15.4–1.8**	**37.52N–.05**	**141.91E–.07**	**9–10**	**3.6b**	**26**	**1-90**
IDC	III	21 10 33 14.2–.82	37.56N	141.97E	0	3.7,3.6L		¶602681462
ISCJB	III	21 10 33 15.7–1.4	37.51N–.04	141.97E–.08	22–9	3.5b,3.6L		
JMA	III	21 10 33 16.1–.20	37.53N	141.95E	22–3	3.9,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=19.7km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.2km az=14.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**21 10 33 56.7–3.3**	**39.28N–.09**	**142.94E–.07**	**4–19**	**3.7b**	**22**	**1-88**
IDC	III	21 10 33 55.7–1.9	39.20N	143.09E	0	3.9,3.7		¶600560467
ISCJB	III	21 10 33 55.6–2.3	39.28N–.07	143.05E–.05	7–15	3.6b,3.7		
JMA	III	21 10 33 56.7–.40	39.32N	142.99E	9–4	4.1,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=42.5km s-min=20.2km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.8km az=0.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

JMA	**III**	**21 10 42 44.0**	**36.47N**	**141.07E**	**23–1**	**3.7**		
								¶16462043

JMA Event type fe.

ISC	**III**	**21 10 55 04.1–.90**	**35.83N–.04**	**140.82E–.06**	**15–5**	**3.9b**	**37**	**0-148**
NIED	III	21 10 55 00	35.90N	140.90E	5	4.0W		¶16462063
JMA	III	21 10 55 03.7–.10	35.87N	140.88E	13–1	4.1		
ISCJB	III	21 10 55 03.7–.54	35.82N–.03	140.81E–.06	23–3	3.8b		
IDC	III	21 10 55 08.4–1.7	35.77N	140.71E	48–17	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ49.00000°,λ-56.00000°. NP2:ϕ_s325.00000°,δ51.00000°,λ-122.00000°. $M_0$1.09000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=160.8.
IDC Error ellipse: s-maj=18.3km s-min=8.1km az=70.0.

JMA	**III**	**21 11 48 04.0–.30**	**38.18N**	**142.38E**	**38–4**	**3.7**		
								¶602681250

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**21 13 21 06.7–1.1**	**36.27N–.09**	**141.9E–.10**	**19**	**3.3b**	**13**	**3-64**
IDC	III	21 13 21 03.6–1.4	36.31N	142.03E	0	4.0,4.0s		¶17197678
ISCJB	III	21 13 21 04.6–.86	36.25N–.06	141.96E–.08	19	4.0s,3.2b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**21 13 49 20.9–1.5**	**36.40N–.05**	**141.10E–.05**	**6–8**	**4.6b,3.6s**	**121**	**0-152**
NIED	III	21 13 49 00	36.50N	141.10E	5	4.4W,3.6s		¶16341363
IDC	III	21 13 49 20.2–.50	36.40N	141.07E	0	4.4,4.3		
JMA	III	21 13 49 22.2	36.47N	141.09E	24–1	4.7,4.3		
ISCJB	III	21 13 49 23.0–.82	36.43N–.03	141.02E–.04	28–5	4.4b,3.6s		
NEIC	III	21 13 49 24.5–.90	36.38N	140.96E	29–6	4.6b,3.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ42.00000°,λ-122.00000°. NP2:ϕ_s182.00000°,δ55.00000°,λ-64.00000°. $M_0$4.38000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.8km az=109.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.7km az=135.8.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=5.5km az=144.0. Recorded [3 JMA] in Ibaraki.

ISC	**III**	**21 14 39 55.0–1.1**	**35.82N–.04**	**140.77E–.07**	**8–8**	**3.3b**	**21**	**0-91**
NIED	III	21 14 39 00	35.80N	140.90E	5	3.6W		¶602680111
ISCJB	III	21 14 39 53.0–1.2	35.88N–.04	141.02E–.07	7–7	3.6s,3.2b		
IDC	III	21 14 39 53.5–.89	35.66N	140.61E	0	3.6,3.6		
JMA	III	21 14 39 55.0–.10	35.82N	140.90E	10–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ32.00000°,λ-36.00000°. NP2:ϕ_s309.00000°,δ72.00000°,λ-117.00000°. $M_0$2.63000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.2km az=1.7.
IDC Error ellipse: s-maj=25.6km s-min=22.2km az=66.0.
JMA Event type fe.

ISC	**III**	**21 14 53 50.3–1.1**	**36.73N–.03**	**140.51E–.06**	**6–7**	**4.3b,3.3s**	**63**	**0-147**
NIED	III	21 14 53 00	36.70N	140.60E	5	4.4W,3.3s		¶602680051
IDC	III	21 14 53 49.5–.52	36.71N	140.48E	0	4.4,4.4L		
JMA	III	21 14 53 50.6	36.73N	140.59E	5–1	4.5,4.4L		
ISCJB	III	21 14 53 50.1–.54	36.70N–.03	140.64E–.05	16–3	4.2b,3.4s		
NEIC	III	21 14 53 53.2–2.6	36.74N	140.50E	23–19	4.5b,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ25.00000°,λ-97.00000°. NP2:ϕ_s167.00000°,δ65.00000°,λ-86.00000°. $M_0$4.36000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=12.0km az=152.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s177.00000°,δ47.00000°,λ-76.00000°. NP2:ϕ_s337.00000°,δ45.00000°,λ-104.00000°. Principal axes: T Plg1.0000°,Azm257.0000°; N Plg10.0000°,Azm347.0000°; P Plg80.0000°,Azm159.0000°
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.3km az=19.6.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=7.8km az=137.0. Recorded [3 JMA] in Ibaraki.

ISC	**III**	**21 14 58 05.5–3.0**	**36.45N–.04**	**141.99E–.06**	**25–21**	**4.0b**	**67**	**1-147**
NIED	III	21 14 58 00	36.50N	141.90E	32	3.9W		¶16342411
IDC	III	21 14 58 01.5–.60	36.42N	141.99E	0	4.1,3.9		
ISCJB	III	21 14 58 03.0–1.0	36.43N–.03	142.01E–.05	20–7	4.0b,3.7s		
JMA	III	21 14 58 05.7–.20	36.48N	141.85E	63–5	3.9,3.7s		
NEIC	III	21 14 58 05.1–.87	36.33N	142.01E	25–6	4.4b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ23.00000°,λ100.00000°. NP2:ϕ_s2.00000°,δ67.00000°,λ86.00000°. $M_0$8.54000×10^{14}
IDC Error ellipse: s-maj=16.8km s-min=13.8km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=175.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.7km az=143.0.

ISC	**III**	**21 15 06 08.9–1.6**	**36.74N–.05**	**141.2E–.10**	**41–14**	**3.6b**	**22**	**0-57**
ISCJB	III	21 15 06 07.9–1.0	36.73N–.04	141.2E–.10	53–7	3.6b		¶17197689
JMA	III	21 15 06 09.4–.10	36.74N	141.12E	46–1	3.5		
IDC	III	21 15 06 11.8–5.8	36.67N	140.99E	66–38	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=7.1km az=0.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=75.0km s-min=14.3km az=75.0.

ISC	**III**	**21 15 08 14.2–.71**	**36.01N–.04**	**141.05E–.08**	**31**	**3.7b**	**24**	**0-147**
NIED	III	21 15 08 00	36.00N	141.20E	14	3.9W		¶602680021
ISCJB	III	21 15 08 12.5–.60	36.02N–.04	141.14E–.08	31	3.7b,2.8s		
JMA	III	21 15 08 12.1–.10	35.98N	141.21E	35–2	4.0,2.8s		
IDC	III	21 15 08 17.1–2.2	35.96N	140.92E	58–21	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ58.00000°,λ-29.00000°. NP2:ϕ_s340.00000°,δ66.00000°,λ-144.00000°. $M_0$9.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.5km az=2.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=11.6km az=82.0.

JMA	**III**	**21 15 08 40.6–.10**	**36.64N**	**141.00E**	**42–1**	**3.5**		
								¶600560845

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**21 15 33 43.4–.30**	**38.24N**	**142.16E**	**14–4**	**3.5**		
								¶602679923

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**21 15 50 32.2–1.4**	**39.70N–.07**	**142.8E–.10**	**18**	**3.6b**	**19**	**1-60**
NIED	III	21 15 50 00	39.70N	142.70E	32	3.6W		¶17197695
IDC	III	21 15 50 28.0–2.7	39.80N	143.13E	0	3.8,3.7b		
ISCJB	III	21 15 50 30.8–1.0	39.65N–.06	142.91E–.09	18	3.4b,2.8s		
JMA	III	21 15 50 33.7–.30	39.69N	142.73E	24–3	3.9,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ21.00000°,λ122.00000°. NP2:ϕ_s34.00000°,δ73.00000°,λ79.00000°. $M_0$3.17000×10^{14}
IDC Error ellipse: s-maj=63.5km s-min=27.9km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.6km az=18.8.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

IDC	**III**	**21 15 54 52.6–3.4**	**35.92N**	**141.79E**	**0**	**3.4,3.2**		
								¶17197696

IDC Error ellipse: s-maj=97.9km s-min=27.4km az=55.0.

ISC	**III**	**21 16 59 04.2–1.0**	**36.43N–.07**	**142.00E–.09**	**19**	**3.4b**	**13**	**1-64**
IDC	III	21 16 59 00.7–1.1	36.57N	142.24E	0	3.7,3.6		¶17197705
ISCJB	III	21 16 59 03.1–.00	36.35N–.06	141.97E–.10	19	3.3b,3.6		
JMA	III	21 16 59 06.6–.20	36.42N	141.89E	49	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=20.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.1km az=153.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**21 17 14 52.0–1.0**	**39.09N–.05**	**142.97E–.08**	**16**	**3.6b**	**23**	**1-59**
ISCJB	III	21 17 14 51.1–.73	39.10N–.05	142.99E–.07	16	3.5b		¶17197711
JMA	III	21 17 14 52.5–.30	39.11N	142.92E	23–3	4.0		
IDC	III	21 17 14 52.1–1.3	39.36N	142.67E	0	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.5km az=140.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=21.7km az=120.0.

JMA	**III**	**21 17 29 35.5–.10**	**38.39N**	**142.10E**	**31–2**	**3.7**		
								¶602679797

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**21 17 34 57.2–1.7**	**36.45N–.04**	**141.16E–.08**	**24–12**	**3.6b**	**21**	**1-60**
NIED	III	21 17 34 00	36.50N	141.10E	38	3.7W		¶17197719
IDC	III	21 17 34 53.2–.97	36.41N	141.27E	0	3.7,3.6		
ISCJB	III	21 17 34 55.9–1.1	36.40N–.04	141.22E–.08	29–7	3.5b,3.6		
JMA	III	21 17 34 57.8–.10	36.46N	141.10E	43–2	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ16.00000°,λ-45.00000°. NP2:ϕ_s289.00000°,δ79.00000°,λ-101.00000°. $M_0$4.73000×10^{14}
IDC Error ellipse: s-maj=26.9km s-min=18.8km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.8km az=6.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC	**III**	**21 18 11 08.9–9.6**	**36.85N**	**141.52E**	**0**	**3.5b,3.3**		
								¶17197728

IDC Error ellipse: s-maj=156.4km s-min=64.5km az=128.0.

JMA	**III**	**21 18 18 06.0–.10**	**37.13N**	**141.09E**	**33–1**	**2.3**		
								¶603049966

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**21 18 23 37.8–1.3**	**36.65N–.05**	**140.72E–.08**	**46–13**	**3.3b**	**20**	**0-57**
NIED	III	21 18 23 00	36.60N	140.80E	59	3.9W		¶602679453
JMA	III	21 18 23 36.6	36.60N	140.77E	45–1	3.8		
ISCJB	III	21 18 23 36.2–.65	36.61N–.04	140.81E–.06	48–5	3.5b,3.1s		
IDC	III	21 18 23 41.4–2.0	36.49N	140.50E	85–20	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s80.00000°,δ49.00000°,λ-32.00000°. NP2:ϕ_s192.00000°,δ66.00000°,λ-134.00000°. $M_0$7.45000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s359.00000°,δ75.00000°,λ160.00000°. NP2:ϕ_s94.00000°,δ71.00000°,λ15.00000°. Principal axes: T Plg24.0000°,Azm316.0000°; N Plg66.0000°,Azm144.0000°; P Plg3.0000°,Azm47.0000°
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.5km az=23.1.
IDC Error ellipse: s-maj=22.0km s-min=10.3km az=63.0.

ISC	**III**	**21 18 33 42.1–1.5**	**36.73N–.05**	**141.10E–.07**	**20–5**	**3.4b**	**18**	**0-91**
IDC	III	21 18 33 38.8–1.4	36.87N	141.45E	0	3.5,3.3L		¶17197731
ISCJB	III	21 18 33 39.4–1.4	36.69N–.04	141.28E–.07	7–6	3.2b,3.3L		
JMA	III	21 18 33 43.7	36.75N	141.02E	18–1	3.4,3.3L		

ISC Event type ke.
IDC Error ellipse: s-maj=35.0km s-min=31.9km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.8km az=22.1.

ISC	**III**	**21 18 48 16.0–1.0**	**38.44N–.06**	**142.1E–.10**	**41**	**4.0b**	**23**	**1-117**
NIED	III	21 18 48 00	38.40N	142.20E	26	3.7W		¶16480047
IDC	III	21 18 48 10.2–1.1	38.36N	142.31E	0	3.9,3.9b		
JMA	III	21 18 48 14.1–.20	38.43N	142.20E	31–2	3.9,3.9b		
ISCJB	III	21 18 48 14.6–.73	38.42N–.05	142.17E–.07	41	3.9b,3.9b		
NEIC	III	21 18 48 15.3–2.1	38.34N	142.40E	40–18	4.0b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ41.00000°,λ-37.00000°. NP2:ϕ_s288.00000°,δ67.00000°,λ-125.00000°. $M_0$3.96000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=17.3km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=21.0.
NEIC Event type se. Error ellipse: s-maj=23.3km s-min=12.3km az=105.0.

ISC	**III**	**21 18 52 44.2–2.3**	**37.40N–.04**	**141.49E–.07**	**8–13**	**3.5b**	**25**	**1-57**
NIED	III	21 18 52 00	37.50N	141.30E	32	3.6W		¶600561195
IDC	III	21 18 52 42.6–2.3	37.48N	141.62E	0	3.6,3.6		
ISCJB	III	21 18 52 45.0–1.1	37.40N–.04	141.51E–.07	23–6	3.4b,3.6		

JMA III 21 18 52 48.3–.10 37.45N 141.28E 27–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ60.00000°,λ-157.00000°. NP2:ϕ_s198.00000°,δ70.00000°,λ-32.00000°. $M_0$2.56000×10^{14}
IDC Error ellipse: s-maj=56.5km s-min=23.1km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.9km az=13.7.
JMA Event type fe.
JMA III 21 19 00 20.8–.10 37.83N 141.78E 31–3 3.6
¶602679362
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 19 13 09.0–3.4 39.53N–.06 142.71E–.10 26–23 3.6b 24 1-73
IDC III 21 19 13 04.6–.87 39.44N 142.86E 0 3.7,3.6 **¶17197740**
JMA III 21 19 13 05.9–.30 39.50N 142.81E 10–3 4.1,3.6
ISCJB III 21 19 13 05.8–2.8 39.49N–.06 142.8E–.10 19–18 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 19 26 47.2–.92 36.74N–.03 140.49E–.04 10–6 4.5b,3.9s 80 0-97
NIED III 21 19 26 00 36.70N 140.70E 5 4.2W,3.9s **¶16342194**
JMA III 21 19 26 47.7 36.73N 140.59E 8–1 4.4,3.9s
ISCJB III 21 19 26 47.0–.48 36.70N–.03 140.65E–.04 20–3 4.4b,4.0s
NEIC III 21 19 26 51.9–.72 36.74N 140.42E 44–6 4.6b,4.0s
IDC III 21 19 26 52.0–2.1 36.74N 140.43E 43–20 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ42.00000°,λ-103.00000°. NP2:ϕ_s6.00000°,δ49.00000°,λ-78.00000°. $M_0$2.49000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.3km az=27.2.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.4km az=98.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=13.5km s-min=12.2km az=113.0.
ISC III 21 19 29 02.3–.76 39.59N–.04 142.12E–.07 51–6 4.4b 96 1-145
NIED III 21 19 29 00 39.60N 142.10E 56 4.7W **¶16342195**
ISCJB III 21 19 29 01.9–.59 39.61N–.03 142.12E–.06 61–4 4.5b
JMA III 21 19 29 02.2–.10 39.64N 142.16E 48–1 4.5
NEIC III 21 19 29 05.3–.66 39.62N 142.07E 77–5 4.8b
IDC III 21 19 29 06.2–2.0 39.61N 141.99E 85–18 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ17.00000°,λ93.00000°. NP2:ϕ_s2.00000°,δ73.00000°,λ89.00000°. $M_0$1.08000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.0km az=10.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=117.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.8km s-min=11.2km az=105.0.
ISC III 21 19 31 55.1–1.4 36.20N–.04 141.21E–.07 19–4 4.0b 31 1-82
NIED III 21 19 31 00 36.20N 141.30E 5 3.9W **¶16480054**
IDC III 21 19 31 52.4–1.0 36.21N 141.21E 0 4.1,4.0
JMA III 21 19 31 54.8–.10 36.15N 141.25E 44–2 4.1,4.0
ISCJB III 21 19 31 54.7–1.0 36.17N–.04 141.29E–.07 30–6 4.2b,4.0
NEIC III 21 19 31 58.0–1.8 36.15N 141.10E 41–14 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ14.00000°,λ-12.00000°. NP2:ϕ_s6.00000°,δ87.00000°,λ-104.00000°. $M_0$8.85000×10^{14}
IDC Error ellipse: s-maj=24.6km s-min=20.5km az=112.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.2km az=171.1.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=12.2km az=110.0.
ISC III 21 19 41 41.8–2.0 36.54N–.04 141.83E–.06 7–12 4.1b 55 1-75
NIED III 21 19 41 00 36.60N 141.70E 17 3.9W **¶602679277**
IDC III 21 19 41 40.9–.76 36.59N 141.83E 0 4.2L,4.1
JMA III 21 19 41 45.8–.20 36.59N 141.74E 52–4 4.1,4.1
NEIC III 21 19 41 45.7–3.3 36.51N 141.86E 34–23 4.3b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ35.00000°,λ-101.00000°. NP2:ϕ_s295.00000°,δ56.00000°,λ-82.00000°. $M_0$7.85000×10^{14}
IDC Error ellipse: s-maj=22.1km s-min=15.0km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.1km az=62.0.
IDC III 21 19 53 04.2–3.8 35.92N 141.35E 0 3.4,3.2b
¶17197743
IDC Error ellipse: s-maj=102.8km s-min=32.2km az=53.0.
ISC III 21 19 54 54.9–1.2 38.76N–.05 142.39E–.09 27 3.5b 20 1-48
NIED III 21 19 54 00 38.80N 142.40E 32 3.8W **¶17197744**
IDC III 21 19 54 50.2–3.0 38.62N 142.54E 0 3.5,3.5b
ISCJB III 21 19 54 54.1–.95 38.77N–.05 142.50E–.08 27 3.4b,3.5b
JMA III 21 19 54 56.1–.20 38.80N 142.37E 32–3 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ43.00000°,λ128.00000°. NP2:ϕ_s109.00000°,δ57.00000°,λ60.00000°. $M_0$5.38000×10^{14}
IDC Error ellipse: s-maj=66.9km s-min=26.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.1km az=30.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 21 19 55 20.9–9.9 35.26N 140.89E 0 3.7,3.6
¶17197745
IDC Error ellipse: s-maj=217.3km s-min=25.7km az=90.0.
ISC III 21 20 05 20.5–2.2 36.68N–.05 141.94E–.06 1–13 4.1b,3.5s 53 1-90
NIED III 21 20 05 00 36.70N 141.80E 14 4.0W,3.5s **¶602679233**
IDC III 21 20 05 20.5–.63 36.66N 141.90E 0 4.3,4.2L
JMA III 21 20 05 25.0–.20 36.70N 141.83E 51–4 4.3,4.2L
NEIC III 21 20 05 26.4–1.3 36.70N 141.95E 40–10 4.3b,4.2L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ12.00000°,λ-89.00000°. NP2:ϕ_s184.00000°,δ78.00000°,λ-90.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=14.6km az=119.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=8.9km az=138.0.
ISC III 21 20 15 50.7–1.5 36.28N–.04 141.10E–.07 23–12 3.5b 19 1-56
NIED III 21 20 15 00 36.20N 141.00E 35 3.8W **¶17197749**
IDC III 21 20 15 47.4–1.4 36.26N 141.13E 0 3.7,3.6
ISCJB III 21 20 15 50.6–.95 36.24N–.04 141.13E–.08 37–9 3.4b,3.6
JMA III 21 20 15 51.4–.10 36.23N 141.04E 46–2 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ7.00000°,λ136.00000°. NP2:ϕ_s30.00000°,δ85.00000°,λ85.00000°. $M_0$6.08000×10^{14}
IDC Error ellipse: s-maj=28.7km s-min=25.6km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.4km az=171.9.
JMA Event type fe.
ISC III 21 20 47 05.1–1.2 35.71N–.06 140.80E–.09 48–9 3.5b 17 0-56
IDC III 21 20 46 56.5–2.9 35.92N 141.38E 0 3.9,3.8 **¶17197753**
ISCJB III 21 20 47 04.1–.94 35.69N–.06 140.8E–.10 61–7 3.4b,3.8
JMA III 21 20 47 05.7–.10 35.75N 140.63E 47–1 3.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=69.7km s-min=23.5km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=8.0km az=155.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 21 21 11 57.4–1.3 35.38N–.05 141.11E–.08 27–9 4.1b 54 0-98
IDC III 21 21 11 53.6–.85 35.41N 141.07E 0 4.2,4.0 **¶16462069**
ISCJB III 21 21 11 56.9–.84 35.38N–.03 141.21E–.09 38–7 4.0b,4.0s
JMA III 21 21 11 57.6–.10 35.44N 141.15E 29–2 3.4,4.0s
NEIC III 21 21 11 58.5–.71 35.38N 141.20E 36–6 4.5b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=17.2km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=5.5km az=172.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.6km az=79.0.
ISC III 21 21 21 49.0–1.7 36.46N–.05 141.16E–.08 26–12 3.5b 18 0-56
IDC III 21 21 21 43.5–2.6 36.55N 141.61E 0 3.6,3.6 **¶17197760**
ISCJB III 21 21 21 48.3–1.3 36.41N–.04 141.21E–.08 30–6 3.5b,3.6
JMA III 21 21 21 50.1–.10 36.46N 141.10E 44–1 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=59.6km s-min=28.3km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=7.3.
JMA Event type fe.

ISC III 21 21 23 56.1–1.9 36.60N–.04 141.10E–.05 5–11 4.6b,3.8s 103 0-95
IDC III 21 21 23 55.3–.50 36.53N 141.24E 0 4.7,4.5 **¶16342196**
ISCJB III 21 21 23 55.7–.22 36.53N–.03 141.06E–.04 10 4.6b,3.8s
NEIC III 21 21 23 58.0–4.5 36.56N 141.02E 16–28 4.7b,3.8s
NIED III 21 21 24 00 36.70N 141.00E 59 4.6W,3.8s
JMA III 21 21 24 01.6 36.73N 140.94E 52–1 4.3,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=13.8km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.9km az=151.7.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.5km az=104.0. Recorded [3 JMA] in Fukushima.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ40.00000°,λ-163.00000°. NP2:ϕ_s62.00000°,δ79.00000°,λ-51.00000°. $M_0$8.75000×10^{15}
JMA Event type fe.
JMA III 21 21 35 11.8–.20 39.32N 142.68E 20–3 3.0
¶603145383
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 21 21 54 49.6–.30 38.41N 142.06E 31–4 2.7
¶16480083
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 21 22 00 12.5–.20 36.65N 141.85E 51–5 3.6
¶602679677
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 23 15 58.1–2.7 38.77N–.06 142.2E–.10 28–16 3.6b 21 1-73
NIED III 21 23 15 00 38.80N 142.20E 32 3.6W **¶17197774**
IDC III 21 23 15 58.8–1.1 39.54N 141.77E 0 3.7,3.6b
JMA III 21 23 15 58.8–.10 38.77N 142.19E 31–2 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ27.00000°,λ-79.00000°. NP2:ϕ_s244.00000°,δ63.00000°,λ-95.00000°. $M_0$3.28000×10^{14}
IDC Error ellipse: s-maj=32.3km s-min=20.1km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 21 23 20 32.3–.30 35.94N 141.80E 46 3.1
¶603145384
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 21 23 43 43.9–.61 36.22N–.05 141.93E–.07 23 4.1b 41 1-147
NIED III 21 23 43 00 36.20N 141.90E 8 4.0W **¶16462073**
IDC III 21 23 43 40.0–.74 36.12N 141.93E 0 4.2,4.1b
ISCJB III 21 23 43 42.2–.51 36.21N–.04 141.92E–.07 23 4.0b,4.1b
JMA III 21 23 43 43.5–.40 36.25N 141.85E 41 3.7,4.1b
NEIC III 21 23 43 45.3–.42 36.12N 141.87E 35 4.3b,4.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ27.00000°,λ23.00000°. NP2:ϕ_s76.00000°,δ80.00000°,λ115.00000°. $M_0$9.69000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=17.8km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=6.0km az=11.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.8km az=166.0.
JMA III 21 23 48 27.0–.10 38.39N 141.60E 57–1 3.5
NIED III 21 23 48 00 38.40N 141.60E 50 4.3W **¶600561682**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ15.00000°,λ180.00000°. NP2:ϕ_s181.00000°,δ90.00000°,λ75.00000°. $M_0$3.57000×10^{15}
ISC III 22 00 08 53.4–1.5 37.26N–.06 141.5E–.20 39–8 3.6b 16 1-57
NIED III 22 00 08 00 37.30N 141.30E 50 3.6W **¶602684746**
IDC III 22 00 08 50.8–2.0 37.03N 140.61E 0 3.8,3.7
ISCJB III 22 00 08 53.3–1.7 37.25N–.05 141.4E–.20 54–9 3.6b,3.7
JMA III 22 00 08 54.3–.20 37.28N 141.35E 51–2 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s10.00000°,δ71.00000°,λ80.00000°. $M_0$2.48000×10^{14}
IDC Error ellipse: s-maj=38.7km s-min=24.4km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=25.1km s-min=8.4km az=1.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 00 14 42.0–.60 35.52N–.07 141.73E–.07 22 4.2b 43 1-147
NIED III 22 00 14 00 35.60N 141.70E 14 4.3W **¶602684733**
IDC III 22 00 14 38.2–.74 35.44N 141.81E 0 4.2,4.1
ISCJB III 22 00 14 40.3–.48 35.57N–.05 141.82E–.06 22 4.1b,2.9s
JMA III 22 00 14 42.9–.30 35.58N 141.70E 43–3 3.8,2.9s
NEIC III 22 00 14 43.7–.39 35.50N 141.78E 35 4.4b,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ31.00000°,λ125.00000°. NP2:ϕ_s358.00000°,δ65.00000°,λ71.00000°. $M_0$3.03000×10^{15}
IDC Error ellipse: s-maj=19.3km s-min=16.3km az=17.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.2km az=143.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.9km az=172.0.
JMA III 22 00 19 08.1–.10 37.10N 141.12E 51–1 3.6
NIED III 22 00 19 00 37.10N 141.10E 29 3.9W **¶600561801**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ60.00000°,λ175.00000°. NP2:ϕ_s212.00000°,δ86.00000°,λ30.00000°. $M_0$7.93000×10^{14}
ISC III 22 00 33 10.9–.92 36.50N–.04 140.99E–.07 48–8 4.0b 56 0-79
NIED III 22 00 33 00 36.50N 140.90E 53 3.7W **¶16342198**
NEIC III 22 00 33 09.8–.29 36.60N 141.12E 35 4.7b
ISCJB III 22 00 33 10.0–.51 36.50N–.03 141.00E–.05 55–4 4.1b
IDC III 22 00 33 10.2–3.5 36.60N 141.09E 39–30 3.9,3.8L
JMA III 22 00 33 12.3–.10 36.54N 140.84E 51–1 3.7,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ25.00000°,λ22.00000°. NP2:ϕ_s15.00000°,δ81.00000°,λ114.00000°. $M_0$4.49000×10^{14}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=8.4.
IDC Error ellipse: s-maj=33.6km s-min=18.8km az=67.0.
JMA Event type fe.
ISC III 22 00 43 17.9–2.1 38.08N–.06 142.36E–.08 17–11 3.7b 27 1-62
NIED III 22 00 43 00 38.00N 142.30E 17 3.7W **¶17197889**
IDC III 22 00 43 14.7–1.1 38.15N 142.68E 0 3.8,3.7
ISCJB III 22 00 43 16.3–1.7 37.96N–.05 142.43E–.08 17–10 3.6b,3.7
JMA III 22 00 43 18.5–.20 38.00N 142.32E 24–3 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ35.00000°,λ-61.00000°. NP2:ϕ_s354.00000°,δ60.00000°,λ-109.00000°. $M_0$3.62000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=20.8km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.8km az=6.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 22 00 53 21.2–.30 39.76N 142.76E 15–3 3.9
NIED III 22 00 53 00 39.80N 142.80E 17 3.6W **¶600561850**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ77.00000°,λ-170.00000°. NP2:ϕ_s308.00000°,δ81.00000°,λ-13.00000°. $M_0$2.88000×10^{14}
ISC III 22 01 04 56.8–2.5 39.14N–.05 142.90E–.10 11–12 3.6b 25 1-59
NIED III 22 01 04 00 39.10N 142.90E 41 3.6W **¶17197893**
IDC III 22 01 04 56.5–2.9 39.09N 142.53E 0 3.7,3.6b
JMA III 22 01 04 58.5–.20 39.13N 142.92E 20–2 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s117.00000°,δ7.00000°,λ-13.00000°. NP2:ϕ_s220.00000°,δ89.00000°,λ-96.00000°. $M_0$2.75000×10^{14}
IDC Error ellipse: s-maj=74.2km s-min=30.2km az=74.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 01 13 45.5–.43 36.12N–.03 141.94E–.04 27–2 5.1b,4.9s 616 1-127
NIED III 22 01 13 00 36.10N 141.90E 23 5.1W,4.9s **¶16341525**
ISCJB III 22 01 13 43.9–.76 36.09N–.02 141.83E–.02 23–5 5.0b,4.8s
BJI III 22 01 13 44.6 36.12N 141.68E 22 5.2b,5.1b
JMA III 22 01 13 44.8–.20 36.09N 141.94E 69–4 5.0,5.1b
MOS III 22 01 13 46.8–.88 36.47N 141.84E 32 5.3b,5.1s
IDC III 22 01 13 47.0–2.3 36.03N 141.91E 39–19 4.8,4.7
NEIC III 22 01 13 47.9–.61 36.06N 141.80E 42–5 5.1b,4.7
GCMT III 22 01 13 47.9–.30 36.11N 142.25E 24 5.0W,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ21.00000°,λ4.00000°. NP2:ϕ_s80.00000°,δ88.00000°,λ111.00000°. $M_0$4.81000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=143.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=108.6.
IDC Error ellipse: s-maj=12.6km s-min=10.4km az=117.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.3km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c59; s66,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.05±.13 $M_{\theta\theta}$1.44±.09; $M_{\phi\phi}$-1.39±.11; $M_{r\theta}$3.62±.13; $M_{\theta\phi}$-1.55±.07; $M_{\phi r}$0.86±.16; Best double couple: NP1:ϕ_s253.00000°,δ89.00000°,λ-119.00000°. NP2:ϕ_s161.00000°,δ29.00000°,λ-2.00000°. Principal axes: T 4.4710,Plg37.0000°,Azm9.0000°; N -0.4260,Plg29.0000°,Azm253.0000°; P -4.0410,Plg39.0000°,Azm137.0000° $M_0$4.25600×10^{16}

JMA	**III**	**22 01 17 11.1–.10**	**38.77N**	**142.18E**	**31–2**	**3.7**			**¶602685254**
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
ISC	**III**	**22 01 19 50.0–.96**	**36.33N–.07**	**141.07E–.06**	**29–5**	**4.3b**	**69**	**0-118**	
NIED	III	22 01 19 00	36.30N	141.00E	29	4.1W			**¶16350001**
BJI	III	22 01 19 45.7	36.30N	141.30E	15	4.9b,4.8			
JMA	III	22 01 19 50.7–.10	36.34N	140.97E	46–1	4.2,4.8			
ISCJB	III	22 01 19 50.2–.98	36.35N–.05	141.03E–.07	46–6	4.7s,4.2b			
IDC	III	22 01 19 53.7–2.5	36.29N	140.93E	63–21	4.1,4.0			
NEIC	III	22 01 19 53.1–.91	36.36N	140.98E	58–6	4.7b,4.0			
ISC		Event type se.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ34.00000°,λ162.00000°. NP2:ϕ_s24.00000°,δ80.00000°,λ57.00000°. $M_0$1.49000×10^{15}							
JMA		Event type fe.							
ISCJB		Event type fe. Error ellipse: s-maj=11.8km s-min=6.2km az=41.2.							
IDC		Error ellipse: s-maj=18.5km s-min=15.0km az=97.0.							
NEIC		Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=135.0.							
ISC	**III**	**22 01 59 42.9–2.6**	**39.25N–.06**	**142.7E–.10**	**14–13**	**3.5b**	**15**	**1-59**	
JMA	III	22 01 59 45.6–.10	39.27N	142.58E	22–1	3.6			**¶602685109**
IDC	III	22 01 59 48.0–3.1	39.76N	141.72E	0	3.5,3.3			
ISC		Event type ke.							
JMA		Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
IDC		Error ellipse: s-maj=80.0km s-min=30.2km az=72.0.							
JMA	**III**	**22 02 03 02.8–.20**	**35.68N**	**140.89E**	**8–1**	**2.5**			**¶602685096**
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**III**	**22 02 03 54.9–1.9**	**36.22N–.04**	**141.90E–.08**	**2–12**	**4.0b**	**28**	**1-56**	
NIED	III	22 02 03 00	36.30N	141.90E	17	3.8W			**¶600561977**
IDC	III	22 02 03 54.4–2.3	36.25N	142.02E	0	4.1L,3.9			
JMA	III	22 02 03 57.8–.20	36.28N	141.90E	63–5	3.9,3.9			
ISC		Event type ke.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ28.00000°,λ163.00000°. NP2:ϕ_s8.00000°,δ82.00000°,λ63.00000°. $M_0$5.82000×10^{14}							
IDC		Error ellipse: s-maj=57.9km s-min=23.7km az=71.0.							
JMA		Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
ISC	**III**	**22 02 05 08.6–1.5**	**36.28N–.09**	**141.9E–.10**	**19**	**3.6b**	**10**	**1-60**	
IDC	III	22 02 04 58.8–7.4	36.99N	143.82E	0	3.7,3.7			**¶17197897**
ISCJB	III	22 02 05 05.9–1.1	36.25N–.09	142.1E–.10	19	3.6b,3.7			
JMA	III	22 02 05 09.0–.20	36.28N	141.83E	77–4	3.2,3.7			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=268.1km s-min=22.1km az=66.0.							
ISCJB		Event type ke. Error ellipse: s-maj=16.0km s-min=11.3km az=40.9.							
JMA		Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
ISC	**III**	**22 02 11 49.9–.58**	**39.02N–.04**	**142.71E–.04**	**27–3**	**4.8b,4.2s**	**576**	**1-159**	
NIED	III	22 02 11 00	39.10N	142.70E	5	4.8W,4.2s			**¶602685083**
IDC	III	22 02 11 46.0–.45	39.01N	142.70E	0	4.7,4.6			
JMA	III	22 02 11 47.2–.20	39.07N	142.72E	23–2	4.7,4.6			
ISCJB	III	22 02 11 47.3–.68	39.02N–.03	142.69E–.02	18–4	4.8b,4.2s			
MOS	III	22 02 11 49.4–.96	39.06N	142.73E	33	5.1b,4.1s			
BJI	III	22 02 11 50.2	39.01N	142.63E	39	5.0b,4.8b			
NEIC	III	22 02 11 52.5–.59	39.01N	142.71E	47–5	4.8b,4.8b			
ISC		Event type ke.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s283.00000°,δ46.00000°,λ-111.00000°. NP2:ϕ_s131.00000°,δ47.00000°,λ-70.00000°. $M_0$1.67000×10^{16}							
IDC		Error ellipse: s-maj=12.7km s-min=10.9km az=121.0.							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISCJB		Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=159.8.							
MOS		Error ellipse: s-maj=7.0km s-min=4.6km az=103.9.							
NEIC		Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=145.0.							
ISC	**III**	**22 02 25 30.6–2.6**	**37.64N–.05**	**141.9E–.10**	**15–12**	**3.5b**	**20**	**1-46**	
IDC	III	22 02 25 19.9–10	37.12N	143.08E	0	3.6b,3.5			**¶17197898**
JMA	III	22 02 25 32.3–.20	37.64N	141.83E	35–3	3.7,3.5			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=182.7km s-min=68.8km az=132.0.							
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**III**	**22 02 53 45.2–2.0**	**39.24N–.04**	**142.39E–.06**	**23–14**	**4.4b**	**95**	**1-145**	
NIED	III	22 02 53 00	39.30N	142.40E	32	4.4W			**¶600562054**
ISCJB	III	22 02 53 45.8–.68	39.25N–.03	142.36E–.05	41–6	4.3b,3.0s			
JMA	III	22 02 53 45.6–.10	39.27N	142.36E	30–1	4.3,3.0s			
NEIC	III	22 02 53 47.6–.73	39.24N	142.40E	43–6	4.4b,3.0s			
IDC	III	22 02 53 49.5–2.5	39.24N	142.29E	57–22	4.2,4.1			
ISC		Event type ke.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ48.00000°,λ-32.00000°. NP2:ϕ_s247.00000°,δ66.00000°,λ-134.00000°. $M_0$4.08000×10^{15}							
ISCJB		Event type fe. Error ellipse: s-maj=7.6km s-min=4.1km az=25.7.							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
NEIC		Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=127.0.							
IDC		Error ellipse: s-maj=14.6km s-min=12.3km az=120.0.							
ISC	**III**	**22 02 58 35.6–2.3**	**40.10N–.04**	**142.93E–.09**	**13–12**	**3.6b**	**23**	**1-60**	
IDC	III	22 02 58 36.8–9.8	39.75N	142.04E	0	3.7,3.6			**¶17197904**
ISCJB	III	22 02 58 38.5–1.9	40.09N–.04	142.81E–.10	12–13	3.6b,3.6			
JMA	III	22 02 58 39.0–.20	40.09N	142.78E	15–2	3.8,3.6			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=358.0km s-min=28.9km az=64.0.							
ISCJB		Event type ke. Error ellipse: s-maj=12.7km s-min=6.8km az=1.7.							
JMA		Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISC	**III**	**22 03 02 07.7–1.3**	**36.06N–.05**	**141.2E–.10**	**21–4**	**3.6b**	**15**	**0-56**	
IDC	III	22 03 02 04.3–2.7	35.97N	141.27E	0	3.8,3.7			**¶600562062**
ISCJB	III	22 03 02 07.5–1.3	36.03N–.05	141.2E–.10	31–7	3.5b,3.7			
JMA	III	22 03 02 08.7–.10	35.99N	141.08E	36–1	3.3,3.7			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=82.2km s-min=27.4km az=60.0.							
ISCJB		Event type ke. Error ellipse: s-maj=14.7km s-min=8.5km az=168.1.							
JMA		Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
ISC	**III**	**22 03 38 35.5–.28**	**35.25N–.03**	**141.08E–.03**	**21–2**	**5.5b,5.5s**	**1564**	**0-162**	
NIED	III	22 03 38 00	35.30N	141.20E	20	5.7W,5.5s			**¶602443780**
BJI	III	22 03 38 31.1	35.30N	141.20E	16	5.8s,5.7			
IDC	III	22 03 38 32.5–.33	35.23N	141.06E	0	5.4s,5.4			
NEIC	III	22 03 38 34.0–.00	35.03N	141.05E	20	5.4s,5.4			
JMA	III	22 03 38 34.7–.20	35.26N	141.24E	37–3	5.9,5.4			
ISCJB	III	22 03 38 35.0–.46	35.18N–.02	141.01E–.02	25–3	5.5s,5.5b			
MOS	III	22 03 38 35.3–.91	35.19N	141.04E	33	5.8b,5.6s			
NEIC	III	22 03 38 35.8–.08	35.21N	141.00E	20	5.7,5.7W			
GCMT	III	22 03 38 35.8–.10	35.18N	140.99E	18–0	5.7W,5.7W			
ISC		Event type se.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ37.00000°,λ-164.00000°. NP2:ϕ_s225.00000°,δ81.00000°,λ-54.00000°. $M_0$3.60000×10^{17}							
IDC		Error ellipse: s-maj=11.6km s-min=7.9km az=88.0.							
NEIC		Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00 $M_{\theta\theta}$-2.00 $M_{\phi\phi}$1.00 $M_{r\theta}$3.00 $M_{\theta\phi}$0.50 $M_{\phi r}$1.60 Best double couple: NP1:ϕ_s65.00000°,δ81.00000°,λ67.00000°. NP2:ϕ_s315.00000°,δ23.00000°,λ159.00000°. Principal axes: T 3.8000,Plg48.0000°,Azm311.0000°; N 0.1000,Plg22.0000°,Azm68.0000°; P -3.9000,Plg33.0000°,Azm173.0000° $M_0$4.00000×10^{17}							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISCJB		Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=159.8.							
MOS		Error ellipse: s-maj=7.6km s-min=4.4km az=112.5.							
NEIC		Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=138.0. Felt at Tokyo and Yokosuka. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}0.77 $M_{\theta\theta}$-2.41 $M_{\phi\phi}$1.64 $M_{r\theta}$2.20 $M_{\theta\phi}$1.07 $M_{\phi r}$1.25 Best double couple: NP1:ϕ_s325.00000°,δ41.00000°,λ167.00000°. NP2:ϕ_s65.00000°,δ82.00000°,λ50.00000°. Principal axes: T 3.3800,Plg39.0000°,Azm298.0000°; N 0.1800,Plg40.0000°,Azm72.0000°; P -3.5700,Plg26.0000°,Azm185.0000° $M_0$3.50000×10^{17}							
GCMT		Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c201; s130,c302;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}1.29±.03 $M_{\theta\theta}$-2.53±.03; $M_{\phi\phi}$1.24±.03; $M_{r\theta}$3.08±.14; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$1.39±.09; Best double couple: NP1:ϕ_s68.00000°,δ79.00000°,λ65.00000°. NP2:ϕ_s316.00000°,δ27.00000°,λ155.00000°. Principal axes: T 3.8630,Plg50.0000°,Azm310.0000°; N 0.3870,Plg25.0000°,Azm73.0000°; P -4.2490,Plg29.0000°,Azm178.0000° $M_0$4.05600×10^{17}							
ISC	**III**	**22 03 50 07.5–.85**	**37.46N–.04**	**141.47E–.07**	**35**	**3.8b**	**29**	**1-74**	
ISCJB	III	22 03 50 05.7–.62	37.43N–.03	141.52E–.06	35	3.7b			**¶17197912**
JMA	III	22 03 50 07.5–.10	37.46N	141.38E	35–1	4.0			
IDC	III	22 03 50 09.0–3.4	37.41N	141.35E	46–31	3.8,3.6			
ISC		Event type ke.							
ISCJB		Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=6.1.							
JMA		Event type fe.							
IDC		Error ellipse: s-maj=34.3km s-min=15.9km az=73.0.							
ISC	**III**	**22 03 54 19.8–1.3**	**35.19N–.06**	**141.1E–.10**	**48**	**3.5b**	**16**	**1-55**	
IDC	III	22 03 54 13.6–3.5	35.22N	141.42E	0	3.5,3.4b			**¶602685310**
JMA	III	22 03 54 17.7–.10	35.28N	141.18E	23–3	2.7,3.4b			
ISCJB	III	22 03 54 18.7–1.0	35.19N–.06	141.10E–.10	48	3.4b,3.4b			
ISC		Event type ke.							
ISCJB		Event type ke.							
ISC	**III**	**22 03 58 42.6–1.8**	**39.05N–.07**	**143.0E–.10**	**16**	**4.0b**	**19**	**1-47**	
IDC	III	22 03 58 27.7–3.8	38.32N	144.77E	0	4.1,4.0			**¶600562114**
JMA	III	22 03 58 38.5–.30	39.02N	143.20E	4–3	3.9,4.0			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=82.2km s-min=26.7km az=156.0.							
JMA		Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISC	**III**	**22 04 00 39.2–.95**	**35.17N–.07**	**141.05E–.09**	**48**	**3.9b**	**14**	**1-79**	
IDC	III	22 04 00 32.9–1.2	35.11N	141.05E	0	4.3,4.3s			**¶17197919**
JMA	III	22 04 00 36.6–.20	35.27N	141.11E	32–4	3.3,4.3s			
ISCJB	III	22 04 00 37.2–.75	35.21N–.06	141.09E–.10	48	3.8b,4.3s			
ISC		Event type ke.							
ISCJB		Event type ke.							
JMA	**III**	**22 04 17 05.9**	**36.78N**	**140.61E**	**5–1**	**2.0**			**¶603145385**
ISC	**III**	**22 04 33 55.4–1.7**	**36.53N–.10**	**141.1E–.10**	**32**		**10**	**0-57**	
JMA	III	22 04 33 54.6–.10	36.49N	141.08E	20–1	3.6			**¶602685382**
ISCJB	III	22 04 33 54.4–1.5	36.48N–.09	141.1E–.10	32	3.3b			
IDC	III	22 04 33 54.1–3.4	36.05N	141.48E	0	3.6,3.3			
ISC		Event type ke.							
JMA		Event type fe.							
ISCJB		Event type fe. Error ellipse: s-maj=14.1km s-min=12.2km az=141.4.							
IDC		Error ellipse: s-maj=92.4km s-min=30.9km az=54.0.							
ISC	**III**	**22 04 35 39.7–2.1**	**39.05N–.05**	**142.49E–.08**	**1–12**	**3.7b**	**19**	**1-63**	
ISCJB	III	22 04 35 40.3–1.8	39.02N–.05	142.6E–.10	15–12	3.6b			**¶17197923**
JMA	III	22 04 35 42.6–.20	39.07N	142.43E	28–2	4.1			
IDC	III	22 04 35 47.4–4.4	38.95N	142.39E	70–42	3.6,3.5			
ISC		Event type ke.							
ISCJB		Event type fe. Error ellipse: s-maj=14.9km s-min=7.2km az=18.9.							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
IDC		Error ellipse: s-maj=38.0km s-min=18.8km az=103.0.							
ISC	**III**	**22 04 44 20.3–.41**	**35.23N–.04**	**141.22E–.05**	**35**	**4.6b,4.3s**	**123**	**1-118**	
NIED	III	22 04 44 00	35.20N	141.20E	23	4.6W,4.3s			**¶16341533**
BJI	III	22 04 44 16.3	35.20N	141.20E	26	5.1b,4.7b			
JMA	III	22 04 44 18.8–.20	35.28N	141.21E	33–3	4.5,4.7b			
NEIC	III	22 04 44 18.2–2.5	35.23N	141.15E	15–15	4.7b,4.7b			
ISCJB	III	22 04 44 19.2–.23	35.15N–.03	141.15E–.04	35	4.6b,4.3s			
IDC	III	22 04 44 20.9–3.6	35.15N	141.03E	33–28	4.4,4.4			
ISC		Event type se.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ29.00000°,λ172.00000°. NP2:ϕ_s53.00000°,δ86.00000°,λ61.00000°. $M_0$8.58000×10^{15}							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
NEIC		Event type fe. Error ellipse: s-maj=6.8km s-min=5.3km az=111.0. Recorded [1 JMA] in Chiba.							
ISCJB		Event type fe. Error ellipse: s-maj=4.7km s-min=4.0km az=30.6.							
IDC		Error ellipse: s-maj=15.0km s-min=12.0km az=93.0.							
ISC	**III**	**22 04 52 18.0–1.5**	**35.30N–.06**	**141.2E–.10**	**25**	**3.7b**	**14**	**1-55**	
IDC	III	22 04 52 14.8–3.1	35.24N	141.43E	0	3.9,3.8b			**¶17197925**
ISCJB	III	22 04 52 17.3–1.1	35.23N–.05	141.33E–.09	25	3.8b,3.8b			
JMA	III	22 04 52 18.3–.10	35.26N	141.24E	40–2	3.2,3.8b			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=104.2km s-min=25.4km az=63.0.							
ISCJB		Event type ke. Error ellipse: s-maj=11.2km s-min=7.2km az=170.4.							
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**III**	**22 04 58 30.4–1.4**	**38.88N–.06**	**142.1E–.10**	**39–6**	**3.7b**	**22**	**1-63**	
IDC	III	22 04 58 22.6–2.4	39.05N	142.76E	0	3.8,3.6			**¶17197926**
ISCJB	III	22 04 58 29.8–1.2	38.87N–.04	142.1E–.10	50–10	3.6b,3.6			
JMA	III	22 04 58 31.0–.10	38.89N	142.07E	40–2	3.8,3.6			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=66.9km s-min=25.8km az=65.0.							
ISCJB		Event type fe. Error ellipse: s-maj=16.5km s-min=6.8km az=9.1.							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
ISC	**III**	**22 05 09 34.0–2.1**	**39.05N–.06**	**142.38E–.09**	**26–14**	**3.8b**	**26**	**1-73**	
JMA	III	22 05 09 34.2–.10	39.08N	142.38E	35–2	4.1			**¶17197927**
ISCJB	III	22 05 09 34.2–1.3	39.06N–.05	142.4E–.10	45–10	3.7b			
IDC	III	22 05 09 38.4–3.0	39.06N	142.34E	67–27	3.7,3.6			
ISC		Event type ke.							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISCJB		Event type fe. Error ellipse: s-maj=16.0km s-min=7.3km az=10.7.							
IDC		Error ellipse: s-maj=22.9km s-min=15.6km az=105.0.							
JMA	**III**	**22 05 10 53.4–.10**	**37.78N**	**141.62E**	**51–1**	**3.7**			**¶602684536**
JMA		Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
ISC	**III**	**22 05 26 29.7–1.7**	**37.34N–.05**	**141.67E–.07**	**20–7**	**3.3b**	**20**	**1-57**	
IDC	III	22 05 26 23.9–2.6	37.65N	142.47E	0	3.6,3.5b			**¶17197932**
JMA	III	22 05 26 33.1–.10	37.38N	141.54E	44–2	3.3,3.5b			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=65.9km s-min=33.2km az=67.0.							
JMA		Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
JMA	**III**	**22 05 34 06.0–.10**	**37.27N**	**141.12E**	**26–1**	**3.7**			**¶602684490**
JMA		Event type fe.							
ISC	**III**	**22 05 59 37.3–.60**	**35.66N–.04**	**141.74E–.03**	**40–5**	**5.0b,4.9s**	**930**	**1-154**	
NIED	III	22 05 59 00	35.80N	141.80E	17	5.0W,4.9s			**¶16341536**
BJI	III	22 05 59 31.6	35.82N	141.84E	21	5.1b,5.0s			
ISCJB	III	22 05 59 33.6–.82	35.65N–.02	141.69E–.02	24–5	5.0b,4.8s			
JMA	III	22 05 59 34.4–.20	35.80N	141.82E	39–3	5.1,4.8s			
IDC	III	22 05 59 37.6–1.7	35.69N	141.67E	44–16	4.8,4.7			
MOS	III	22 05 59 37.9–.79	36.16N	141.62E	39	5.3b,5.0s			
GCMT	III	22 05 59 38.5–.40	35.73N	141.79E	60–2	5.1W,5.0s			
NEIC	III	22 05 59 38.5–.49	35.69N	141.59E	49–4	5.1b,5.0s			
ISC		Event type se.							
NIED		Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ21.00000°,λ-146.00000°. NP2:ϕ_s239.00000°,δ79.00000°,λ-73.00000°. $M_0$3.80000×10^{16}							
ISCJB		Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=163.0.							
JMA		Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
IDC		Error ellipse: s-maj=11.0km s-min=8.4km az=87.0.							
MOS		Error ellipse: s-maj=6.3km s-min=4.1km az=110.1.							
GCMT		Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c32; s75,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.02±.22 $M_{\theta\theta}$0.53±.32; $M_{\phi\phi}$-1.55±.30; $M_{r\theta}$-2.48±.11; $M_{\theta\phi}$-4.26±.22; $M_{\phi r}$-1.85±.10; Best double couple: NP1:ϕ_s81.00000°,δ88.00000°,λ-149.00000°. NP2:ϕ_s350.00000°,δ59.00000°,λ-2.00000°. Principal axes: T 4.1740,Plg20.0000°,Azm211.0000°; N 1.9750,Plg59.0000°,Azm84.0000°; P -6.1510,Plg23.0000°,Azm310.0000° $M_0$5.16300×10^{16}							
NEIC		Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=138.0.							
ISC	**III**	**22 06 02 29.5–.62**	**35.66N–.08**	**141.75E–.07**	**25**	**4.2b**	**26**	**1-154**	

ISCJB III 22 06 02 27.5–.51 35.62N–.06 141.83E–.06 25 4.2b ¶17197935
JMA III 22 06 02 28.6–.20 35.74N 141.81E 54–3 4.0
IDC III 22 06 02 31.8–2.4 35.62N 141.64E 43–24 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.6km az=171.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.6km s-min=13.9km az=78.0.
ISC III 22 06 26 18.7–1.6 36.75N–.07 141.3E–.10 33 13 1-57
IDC III 22 06 26 12.0–2.9 36.97N 141.60E 0 3.8,3.6b ¶17197941
ISCJB III 22 06 26 18.5–1.4 36.71N–.06 141.3E–.10 33 3.5b,3.6b
JMA III 22 06 26 21.5–.10 36.79N 141.01E 53–1 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=34.5km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=8.4km az=10.0.
JMA Event type fe.
ISC III 22 06 28 00.9–1.1 36.53N–.08 140.89E–.09 32 3.7b 15 0-60
IDC III 22 06 27 56.6–1.2 36.22N 141.02E 0 4.2,4.0 ¶16480163
JMA III 22 06 27 57.4 36.47N 141.08E 22–1 3.5,4.0
ISCJB III 22 06 27 58.7–.93 36.45N–.08 141.01E–.08 32 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 06 46 03.1–2.0 36.17N–.05 140.82E–.06 12–13 3.3b 17 0-65
IDC III 22 06 46 01.6–1.2 36.14N 140.85E 0 3.4,3.3 ¶17197944
JMA III 22 06 46 04.9–.10 36.24N 140.91E 33–1 3.4,3.3
ISCJB III 22 06 46 04.2–.80 36.25N–.04 140.96E–.07 30–5 3.2b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 07 12 22.4–1.9 38.31N–.05 142.12E–.07 15–11 3.6b 31 1-89
JMA III 22 07 12 24.4–.10 38.33N 142.13E 38–2 4.2 ¶602684297
IDC III 22 07 12 29.2–3.4 38.30N 142.14E 72–31 3.6,3.5
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.8km s-min=18.5km az=87.0.
JMA III 22 07 19 26.1–.20 35.75N 140.65E 47–2 4.8
¶16341540
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 22 07 25 59.8–.10 38.41N 142.16E 38–2 4.3
¶603049968
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 07 33 32.4–.62 35.20N–.06 141.69E–.09 27 4.5b 37 1-152
IDC III 22 07 33 29.2–1.2 35.35N 141.86E 0 4.1,3.9 ¶16449009
ISCJB III 22 07 33 31.3–.45 35.31N–.05 141.77E–.07 27 4.5b,3.9
JMA III 22 07 33 35.2–.20 35.22N 141.24E 12–5 3.2,3.9
NEIC III 22 07 33 35.2–1.2 35.39N 141.84E 44–11 4.8b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=33.6km s-min=19.9km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=7.1km az=0.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.0km az=110.0.
ISC III 22 07 41 26.0–.38 35.98N–.04 141.45E–.05 26 4.7b 164 1-152
ISCJB III 22 07 41 24.5–.20 35.96N–.03 141.47E–.03 26 4.6b,4.2s ¶16342427
JMA III 22 07 41 25.9–.20 36.03N 141.52E 48–3 4.2,4.2s
IDC III 22 07 41 27.0–2.9 35.95N 141.42E 36–24 4.5,4.4
BJI III 22 07 41 27.1 35.94N 141.12E 35 5.0s,4.9b
NEIC III 22 07 41 28.7–.53 36.00N 141.37E 46–4 4.7b,4.9b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.6km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=12.7km az=73.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.4km az=148.0.
JMA III 22 07 50 50.1–.10 39.22N 142.36E 32–1 3.8
¶602684254
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 22 07 54 56.2–.20 37.30N 141.75E 36–3 3.9
¶602684242
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 08 03 06.5–.94 35.94N–.05 141.04E–.08 10 3.4b 15 0-79
ISCJB III 22 08 03 04.7–.79 35.93N–.05 141.13E–.07 10 3.4b ¶600562349
IDC III 22 08 03 04.8–.94 35.86N 141.06E 0 3.6,3.5
JMA III 22 08 03 06.6–.10 35.93N 141.05E 13–2 3.8,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.7km az=169.1.
IDC Error ellipse: s-maj=25.7km s-min=23.5km az=71.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 08 05 20.1–1.7 35.63N–.04 141.83E–.06 16–10 4.3b 80 1-152
IDC III 22 08 05 17.7–.61 35.61N 141.83E 0 4.2,4.1L ¶600562356
NEIC III 22 08 05 18.4–2.3 35.60N 141.83E 5–14 4.6b,4.1L
JMA III 22 08 05 20.8–.30 35.73N 141.80E 49–4 3.9,4.1L
ISCJB III 22 08 05 20.8–1.2 35.64N–.03 141.78E–.04 33–8 4.3b,4.1L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 22 08 26 47.0–2.1 38.56N–.06 142.10E–.09 9–11 3.6b 25 1-68
JMA III 22 08 26 52.1–.10 38.63N 142.03E 39–2 3.7 ¶600562386
IDC III 22 08 26 55.0–3.9 39.00N 141.81E 45–38 3.6,3.6L
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=17.1km az=87.0.
ISC III 22 08 33 09.4–.74 36.89N–.04 141.16E–.04 48–6 4.8s,4.7b 617 0-152
NIED III 22 08 33 00 36.80N 141.20E 44 4.8W,4.7b ¶602443785
JMA III 22 08 33 08.1–.10 36.82N 141.18E 47–1 4.8,4.7b
BJI III 22 08 33 08.9 36.90N 141.00E 57 5.1b,5.0s
MOS III 22 08 33 08.6–.90 37.12N 141.03E 44 5.0b,5.0s
ISCJB III 22 08 33 09.3–.34 36.92N–.03 141.01E–.03 56–2 4.8s,4.7b
NEIC III 22 08 33 11.9–.50 36.95N 141.00E 66–4 4.7b,4.7b
IDC III 22 08 33 12.3–1.6 36.97N 141.07E 71–13 4.6s,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s59.00000°,δ71.00000°,λ96.00000°. $M_0$1.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=98.9.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=153.3.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=150.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=11.4km s-min=9.4km az=126.0.
ISC III 22 08 51 09.3–.82 35.27N–.04 141.05E–.08 33 3.6b 23 0-59
JMA III 22 08 51 07.6–.10 35.32N 141.16E 30–2 3.4 ¶17197965
ISCJB III 22 08 51 08.1–.63 35.27N–.04 141.11E–.08 33 3.7b
IDC III 22 08 51 11.8–2.4 35.22N 140.93E 48–24 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.9km az=9.8.
IDC Error ellipse: s-maj=25.4km s-min=15.5km az=87.0.
ISC III 22 08 52 36.1–1.4 36.51N–.08 141.5E–.10 26 3.6b 11 1-57
IDC III 22 08 52 31.6–2.4 36.88N 141.81E 0 3.7,3.6 ¶600562421
JMA III 22 08 52 32.1–.20 36.36N 141.81E 78–4 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=64.0km s-min=27.5km az=65.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 22 08 54 58.0–.51 35.31N–.04 141.06E–.06 35 4.2b 59 0-146
JMA III 22 08 54 55.6–.20 35.33N 141.15E 34–3 3.7 ¶602684797
ISCJB III 22 08 54 56.5–.28 35.26N–.03 141.05E–.04 35 4.3b,3.9s
NEIC III 22 08 54 59.0–.68 35.22N 141.03E 41–6 4.5b,3.9s
IDC III 22 08 54 59.1–1.6 35.21N 140.96E 42–15 4.1,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=28.6.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.3km az=101.0.
IDC Error ellipse: s-maj=15.1km s-min=9.2km az=92.0.
ISC III 22 09 19 05.3–.32 37.37N–.02 141.79E–.03 28–1 6.0s,5.9b 2008 1-161
NIED III 22 09 19 00 37.40N 141.90E 44 6.1W,5.9b ¶16342199
BJI III 22 09 19 00.7 37.25N 141.95E 20 6.1s,5.9b
IDC III 22 09 19 01.1–.34 37.33N 141.85E 0 6.0,6.0s
ISCJB III 22 09 19 04.5–.56 37.33N–.02 141.81E–.01 30–3 6.0s,5.8b
MOS III 22 09 19 04.4–.97 37.46N 141.92E 33 6.0b,5.9s
JMA III 22 09 19 05.2–.20 37.32N 141.91E 43–4 6.4,5.9s
NEIC III 22 09 19 05.0–.00 37.33N 141.86E 27 6.4,5.9s
GCMT III 22 09 19 06.2–.10 37.38N 141.78E 30–0 6.2W,5.9s
NEIC III 22 09 19 06.2–.07 37.33N 141.79E 31 6.1W,6.0W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ176.00000°. NP2:ϕ_s281.00000°,δ88.00000°,λ59.00000°. $M_0$1.65000×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=160.3.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16 $M_{\theta\theta}$0.17 $M_{\phi\phi}$-0.01 $M_{r\theta}$-1.78 $M_{\theta\phi}$0.39 $M_{\phi r}$0.46 Best double couple: NP1:ϕ_s102.00000°,δ89.00000°,λ-77.00000°. NP2:ϕ_s198.00000°,δ12.00000°,λ-173.00000°. Principal axes: T 1.8000,Plg42.0000°,Azm180.0000°; N 0.1700,Plg12.0000°,Azm282.0000°; P -1.9700,Plg44.0000°,Azm24.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c271; s139,c431;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.20±.01 $M_{\theta\theta}$0.44±.01; $M_{\phi\phi}$-0.23±.01; $M_{r\theta}$-2.45±.05; $M_{\theta\phi}$0.65±.01; $M_{\phi r}$0.52±.02; Best double couple: NP1:ϕ_s101.00000°,δ88.00000°,λ-74.00000°. NP2:ϕ_s198.00000°,δ16.00000°,λ-172.00000°. Principal axes: T 2.5990,Plg41.0000°,Azm176.0000°; N 0.0330,Plg16.0000°,Azm280.0000°; P -2.6320,Plg45.0000°,Azm27.0000° $M_0$2.61600×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=141.0. Felt at Ayase, Chiba, Fujisawa, Ichinoseki, Narita, Otawara and Tokyo. Recorded [4 JMA] in Fukushima, Miyagi and Tochigi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s72 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.31 $M_{\theta\theta}$0.15 $M_{\phi\phi}$0.16 $M_{r\theta}$-1.23 $M_{\theta\phi}$0.45 $M_{\phi r}$0.29 Best double couple: NP1:ϕ_s199.00000°,δ20.00000°,λ-16.00000°. NP2:ϕ_s95.00000°,δ85.00000°,λ-70.00000°. Principal axes: T 1.2000,Plg37.0000°,Azm168.0000°; N 0.2900,Plg20.0000°,Azm274.0000°; P -1.4900,Plg46.0000°,Azm25.0000° $M_0$1.40000×10^{18}
ISC III 22 09 26 54.0–1.1 37.33N–.05 141.87E–.09 21–5 3.9b 18 1-61
IDC III 22 09 26 51.2–1.4 37.28N 141.75E 0 4.1,3.9 ¶600562456
JMA III 22 09 26 56.5–.30 37.36N 141.78E 41 3.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=43.1km s-min=27.7km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 22 09 28 43.9–.20 37.34N 141.79E 46–4 3.8
¶602684182
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 22 09 30 25.7–.20 37.28N 141.79E 33–3 3.6
¶602684177
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 22 09 31 23.4–.40 37.37N 141.82E 33 3.6
¶602684173
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 22 09 32 26.0–.20 37.30N 141.85E 28–3 3.8
¶602684172
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 09 35 26.7–2.4 37.32N–.06 141.9E–.10 26–15 3.5b 20 1-57
IDC III 22 09 35 22.5–1.4 37.17N 141.78E 0 3.7,3.6b ¶602684168
ISCJB III 22 09 35 25.0–1.5 37.28N–.05 141.98E–.07 26–9 3.5b,3.6b
JMA III 22 09 35 27.7–.20 37.31N 141.82E 32–3 3.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=31.4km s-min=28.1km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=8.6km az=12.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 09 44 22.0–1.8 36.0N–.10 140.9E–.20 31 13 0-56
IDC III 22 09 44 15.7–3.2 35.94N 141.23E 0 3.7,3.6 ¶16480197
ISCJB III 22 09 44 20.1–1.6 36.02N–.08 141.0E–.10 31 3.6b,3.6
JMA III 22 09 44 22.1–.10 35.91N 140.85E 34–1 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=84.2km s-min=30.7km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=7.0km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 22 09 46 13.6–.10 37.33N 141.29E 34–1 4.8
NIED III 22 09 46 00 37.30N 141.30E 26 6.1W ¶600562483
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ55.00000°,λ-178.00000°. NP2:ϕ_s239.00000°,δ88.00000°,λ-35.00000°. $M_0$1.72000×10^{18}
JMA III 22 09 50 44.0–.20 37.50N 141.91E 21–3 4.3
¶602684141
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 09 52 59.6–.50 37.19N–.04 141.83E–.05 19 4.4b 60 1-152
ISCJB III 22 09 52 58.5–.38 37.23N–.05 141.95E–.05 19 4.4b ¶602684139
JMA III 22 09 53 02.2–.20 37.29N 141.79E 35–3 4.3
IDC III 22 09 53 02.0–4.7 37.26N 141.84E 33–36 4.4,4.4
NEIC III 22 09 53 04.0–1.3 37.30N 141.79E 49–11 4.3b,4.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.3km az=169.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=14.3km az=140.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.0km az=129.0.
ISC III 22 09 58 14.0–.46 36.16N–.05 141.62E–.06 26 4.3b 64 1-147
IDC III 22 09 58 09.8–.50 36.15N 141.67E 0 4.5,4.3 ¶602684137
ISCJB III 22 09 58 11.9–.33 36.12N–.03 141.73E–.05 26 4.3b,4.3
JMA III 22 09 58 14.2–.20 36.23N 141.59E 41–4 4.0,4.3
NEIC III 22 09 58 15.8–1.0 36.12N 141.62E 42–9 4.5b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=12.7km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=20.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.6km az=53.0.
ISC III 22 10 05 16.6–.80 35.59N–.05 141.86E–.08 22 3.9b 21 1-78
IDC III 22 10 05 13.7–.83 35.60N 141.87E 0 4.0,4.0L ¶600562496
ISCJB III 22 10 05 14.7–.66 35.60N–.05 141.96E–.07 22 3.9b,4.0L
JMA III 22 10 05 17.4–.20 35.78N 141.82E 49–4 3.7,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=16.0km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.7km az=2.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 22 10 13 31.1 36.77N 140.85E 18–1 3.9
¶602684109
JMA Event type fe.
ISC III 22 10 18 58.8–.73 40.30N–.03 142.57E–.03 13–4 5.0b 404 1-151
NIED III 22 10 18 00 40.20N 142.60E 17 4.8W ¶602684092
BJI III 22 10 18 53.4 40.33N 143.00E 11 5.3s,5.1
IDC III 22 10 18 56.0–.48 40.21N 142.51E 0 4.7,4.6
JMA III 22 10 18 58.4–.20 40.24N 142.55E 28–2 4.9,4.6
ISCJB III 22 10 18 59.0–.63 40.33N–.03 142.46E–.03 21–4 4.9b,4.8s
MOS III 22 10 19 00.1–1.1 40.33N 142.59E 38 5.3b,4.8s
NEIC III 22 10 19 02.6–.58 40.27N 142.39E 38–5 4.9b,4.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ53.00000°,λ-12.00000°. NP2:ϕ_s244.00000°,δ81.00000°,λ-142.00000°. $M_0$1.81000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=12.0km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=144.5.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=99.4.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=140.0. Recorded [3 JMA] in Iwate.
ISC III 22 10 23 13.7–.80 40.27N–.04 142.54E–.04 21–3 4.8b 286 1-146
IDC III 22 10 23 09.9–.53 40.25N 142.51E 0 5.5,5.5s ¶16342428
JMA III 22 10 23 12.1–.20 40.25N 142.57E 26–2 4.8,5.5s
ISCJB III 22 10 23 12.7–.57 40.31N–.03 142.48E–.03 20–4 5.3s,4.7b
MOS III 22 10 23 14.3–.95 40.40N 142.47E 33 5.0b,4.7b
BJI III 22 10 23 15.1 40.34N 142.61E 49 5.4s,5.1
NEIC III 22 10 23 16.8–.56 40.32N 142.41E 39–5 4.8b,5.1

ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=12.9km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=141.4.
MOS Error ellipse: s-maj=10.3km s-min=5.8km az=77.9.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.5km az=145.0.

ISC	**III**	**22 10 43 13.7–1.7**	**40.23N–.04**	**142.55E–.05**	**4–10**	**4.1b**	**52**	**1-87**
IDC	III	22 10 43 12.8–.64	40.21N	142.58E	0	4.1,4.0		¶16480213
JMA	III	22 10 43 14.8–.10	40.24N	142.60E	27–2	4.3,4.0		
NEIC	III	22 10 43 17.5–2.1	40.23N	142.49E	30–15	4.2b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=15.1km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.1km az=114.0.

ISC	**III**	**22 10 49 28.9–1.9**	**37.22N–.05**	**141.32E–.07**	**15–11**	**3.4b**	**24**	**0-90**
IDC	III	22 10 49 32.1–4.4	37.25N	141.34E	39–40	3.6L,3.5		¶17197988
JMA	III	22 10 49 32.0–.10	37.35N	141.30E	32–1	3.9,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=33.5km s-min=21.0km az=76.0.
JMA Event type fe.

ISC	**III**	**22 10 52 20.6–.92**	**35.66N–.07**	**141.79E–.08**	**22**	**3.5b**	**17**	**1-65**
IDC	III	22 10 52 17.2–.95	35.67N	141.82E	0	3.7,3.6		¶17197989
ISCJB	III	22 10 52 18.3–.74	35.63N–.06	141.98E–.07	22	3.5b,3.6		
JMA	III	22 10 52 21.1–.20	35.74N	141.82E	48–4	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=18.6km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=8.4km az=9.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 10 56 46.4–.39**	**37.24N–.04**	**141.96E–.04**	**36–1**	**5.2s,4.9b**	**678**	**1-155**
NIED	III	22 10 56 00	37.30N	141.90E	29	4.7W,4.9b		¶16342429
BJI	III	22 10 56 43.6	37.06N	142.05E	40	5.6b,5.4s		
JMA	III	22 10 56 45.7–.20	37.29N	141.87E	33–4	4.8,5.4s		
ISCJB	III	22 10 56 45.6–.46	37.24N–.02	141.87E–.03	40–4	5.2s,4.8b		
IDC	III	22 10 56 47.2–1.8	37.26N	141.93E	45–16	4.7,4.6		
MOS	III	22 10 56 47.5–.75	37.60N	141.83E	43	5.1b,4.6		
NEIC	III	22 10 56 49.3–.47	37.28N	141.81E	59–4	4.8b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ33.00000°,λ-110.00000°. NP2:ϕ_s107.00000°,δ59.00000°,λ-77.00000°. $M_0$1.11000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=148.4.
IDC Error ellipse: s-maj=11.7km s-min=10.6km az=114.0.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=98.1.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=143.0.

JMA	**III**	**22 11 08 11.3–.20**	**35.75N**	**140.86E**	**7–1**	**3.2**	

¶603397708

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 11 08 24.6–.57**	**35.23N–.07**	**141.33E–.09**	**35**	**4.0b**	**45**	**2-152**
IDC	III	22 11 08 19.6–.63	35.20N	141.26E	0	4.1,4.0		¶16462086
ISCJB	III	22 11 08 22.8–.43	35.22N–.05	141.33E–.07	35	4.0b,4.0		
NEIC	III	22 11 08 25.2–1.3	35.29N	141.34E	39–11	4.3b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=14.6km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.6km az=20.4.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.4km az=124.0.

ISC	**III**	**22 11 09 03.0–1.8**	**36.81N–.08**	**141.2E–.10**	**43–14**	**4.1b**	**25**	**0-147**
IDC	III	22 11 09 02.5–.60	38.08N	141.35E	0	4.4,4.2		¶17197994
ISCJB	III	22 11 09 03.2–1.0	36.83N–.07	141.2E–.10	56–6	4.2b,4.2		
JMA	III	22 11 09 03.9–.10	36.82N	141.17E	45–1	3.9,4.2		

ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=16.3km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=9.4km az=22.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**22 11 11 08.0–1.4**	**36.49N–.08**	**141.5E–.10**	**26**	**3.7b**	**12**	**1-57**
IDC	III	22 11 11 02.8–2.4	36.50N	141.80E	0	3.8,3.7		¶17197996
ISCJB	III	22 11 11 05.2–1.1	36.5N–.10	141.72E–.10	26	3.6b,3.7		
JMA	III	22 11 11 07.8–.20	36.51N	141.51E	45	3.1,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=68.1km s-min=27.1km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=11.0km az=13.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**22 11 50 34.6–.20**	**37.33N**	**141.80E**	**39–4**	**3.5**	

¶602683771

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**22 11 54 59.5–.20**	**39.13N**	**142.57E**	**21–2**	**3.5**	

¶602683768

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**22 11 58 34.6–.50**	**36.54N–.04**	**141.91E–.05**	**19**	**4.3b**	**51**	**1-152**
IDC	III	22 11 58 31.8–.54	36.52N	141.94E	0	4.3,4.3L		¶602683759
ISCJB	III	22 11 58 33.1–.36	36.50N–.03	141.97E–.04	19	4.1b,4.3L		
JMA	III	22 11 58 36.3–.10	36.59N	141.81E	55–3	4.3,4.3L		
NEIC	III	22 11 58 37.3–1.1	36.49N	141.92E	35–10	4.4b,4.3L		

ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=13.1km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.3km az=177.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.8km az=82.0.

ISC	**III**	**22 12 04 07.0–.48**	**36.24N–.03**	**141.53E–.04**	**32–3**	**5.7s,5.4b**	**679**	**1-155**
NIED	III	22 12 04 00	36.20N	141.60E	23	5.6W,5.4b		¶16342432
IDC	III	22 12 04 02.2–.39	36.34N	141.52E	0	5.4s,5.4		
BJI	III	22 12 04 03.9	36.07N	141.50E	30	6.0b,5.7s		
ISCJB	III	22 12 04 05.7–.72	36.21N–.02	141.47E–.02	33–5	5.7s,5.4b		
JMA	III	22 12 04 05.0–.20	36.23N	141.63E	48–4	5.9,5.4b		
MOS	III	22 12 04 06.3–.92	36.39N	141.52E	33	5.7b,5.4b		
NEIC	III	22 12 04 09.0–.59	36.29N	141.40E	45–5	5.4b,5.4b		
GCMT	III	22 12 04 09.0–.20	36.12N	141.79E	34–0	5.7W,5.4b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ21.00000°,λ127.00000°. NP2:ϕ_s17.00000°,δ74.00000°,λ77.00000°. $M_0$2.52000×10^{17}
IDC Error ellipse: s-maj=12.1km s-min=9.7km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=136.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=6.7km az=109.9.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=136.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c94; s109,c186; Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.42±.12 $M_{\theta\theta}$-1.27±.08; $M_{\phi\phi}$-2.15±.08; $M_{r\theta}$1.17±.10; $M_{\theta\phi}$-1.12±.04; $M_{\phi r}$1.96±.09; Best double couple: NP1:ϕ_s32.00000°,δ63.00000°,λ89.00000°. NP2:ϕ_s216.00000°,δ27.00000°,λ93.00000°. Principal axes:
T 4.1580,Plg72.0000°,Azm299.0000°; N -0.5100,Plg1.0000°,Azm33.0000°
; P -3.6480,Plg18.0000°,Azm123.0000° $M_0$3.90300×10^{17}

ISC	**III**	**22 12 06 58.4–2.3**	**35.7N–.30**	**141.2E–.40**	**25**	**4.7b**	**7**	**3-59**
IDC	III	22 12 06 54.5–2.7	35.70N	141.35E	0	4.8,4.7		¶17197999
ISCJB	III	22 12 06 56.4–1.9	35.6N–.20	141.2E–.40	25	4.7b,4.7		

ISC Event type ke.
ISCJB Event type ke.

JMA	**III**	**22 12 07 56.6–.20**	**37.32N**	**141.89E**	**28–4**	**3.6**		

¶602683755

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 12 17 39.1–.58**	**36.23N–.04**	**141.52E–.07**	**26**	**3.8b**	**39**	**1-91**
IDC	III	22 12 17 35.1–.68	36.22N	141.56E	0	4.2L,4.0		¶600562619
JMA	III	22 12 17 37.9–.20	36.26N	141.60E	53–4	4.0,4.0		
ISCJB	III	22 12 17 37.6–.44	36.23N–.03	141.61E–.05	26	3.8b,4.0		
NEIC	III	22 12 17 43.4–1.7	36.13N	141.39E	65–15	4.4b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.7km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=16.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=12.5km az=122.0.

JMA	**III**	**22 12 20 46.7–.20**	**37.49N**	**141.85E**	**18–3**	**3.5**		

¶602683742

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**22 12 24 27.5–.20**	**37.37N**	**141.82E**	**42–5**	**3.1**	

¶603049970

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 12 40 08.6–.66**	**36.50N–.04**	**141.7E–.10**	**35–7**	**3.5b**	**34**	**1-147**
IDC	III	22 12 40 03.0–.70	36.39N	141.78E	0	4.4,4.4s		¶16480235
JMA	III	22 12 40 07.3–.20	36.53N	141.70E	58–4	3.8,4.4s		
ISCJB	III	22 12 40 08.0–.95	36.47N–.03	141.69E–.08	47–9	4.3s,3.6b		
NEIC	III	22 12 40 10.9–1.1	36.41N	141.58E	60–11	4.4b,3.6b		

ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=15.9km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=4.9km az=176.1.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.9km az=97.0.

JMA	**III**	**22 12 57 15.6–.10**	**36.16N**	**141.22E**	**27–2**	**4.3**		
NIED	III	22 12 57 00	36.20N	141.20E	14	4.6W		¶600562662

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ45.00000°,λ-77.00000°. NP2:ϕ_s147.00000°,δ47.00000°,λ-103.00000°. $M_0$1.02000×10^{16}

JMA	**III**	**22 13 07 32.9–.20**	**36.89N**	**141.51E**	**44–2**	**3.5**		
NIED	III	22 13 07 00	36.90N	141.50E	5	4.6W		¶600562675

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ9.00000°,λ-100.00000°. NP2:ϕ_s95.00000°,δ81.00000°,λ-88.00000°. $M_0$8.57000×10^{15}

JMA	**III**	**22 13 08 14.0–.10**	**38.31N**	**141.89E**	**47–2**	**3.7**		

¶602683637

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**22 13 17 35.5–.70**	**35.86N–.05**	**140.82E–.08**	**31**	**3.9b**	**24**	**0-65**
ISCJB	III	22 13 17 32.9–.58	35.82N–.04	141.02E–.07	31	4.0b		¶17198008
JMA	III	22 13 17 36.1–.10	35.90N	140.83E	40–1	3.6		
IDC	III	22 13 17 36.4–2.2	35.80N	140.84E	42–21	4.0,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=159.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=13.4km az=79.0.

JMA	**III**	**22 13 32 25.6–.20**	**37.29N**	**141.81E**	**37–3**	**3.6**	

¶602683605

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**22 13 42 47.0–.10**	**35.76N**	**140.94E**	**12–1**	**3.5**	

¶602683022

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**22 13 46 13.2–.10**	**39.00N**	**142.74E**	**19–2**	**3.4**	

¶603145386

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**22 13 50 53.5–.44**	**35.82N–.03**	**141.64E–.03**	**30–2**	**5.8b,5.7s**	**1696**	**1-158**
NIED	III	22 13 50 00	35.90N	141.80E	17	5.7W,5.7s		¶602683002
BJI	III	22 13 50 46.5	35.85N	141.82E	10	5.9s,5.7		
JMA	III	22 13 50 49.8–.30	35.86N	141.78E	22–3	6.0,5.7		
NEIC	III	22 13 50 50.0–.00	35.59N	141.73E	15	6.0,5.7		
MOS	III	22 13 50 50.8–.99	35.84N	141.65E	25	6.1b,5.8s		
GCMT	III	22 13 50 51.1–.10	35.77N	141.66E	19–0	5.8W,5.8s		
NEIC	III	22 13 50 51.9–.08	35.80N	141.55E	20	5.9W,5.8		
ISCJB	III	22 13 50 51.0–.51	35.82N–.02	141.64E–.02	24–3	5.7b,5.7s		
IDC	III	22 13 50 55.9–1.8	35.84N	141.58E	48–16	5.7,5.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ41.00000°,λ28.00000°. NP2:ϕ_s51.00000°,δ72.00000°,λ128.00000°. $M_0$4.21000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}3.20 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-3.30 $M_{r\theta}$4.80 $M_{\theta\phi}$-1.30 $M_{\phi r}$5.20 Best double couple: NP1:ϕ_s40.00000° ,δ77.00000°,λ100.00000°. NP2:ϕ_s177.00000°,δ16.00000°,λ48.00000°. Principal axes:
T 7.9000,Plg55.0000°,Azm324.0000°; N -0.1000,Plg10.0000°,Azm218.0000°
; P -7.8000,Plg32.0000°,Azm121.0000° $M_0$8.00000×10^{17}
MOS Error ellipse: s-maj=7.2km s-min=4.6km az=112.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s104,c203; s130,c345;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}4.57±.08 $M_{\theta\theta}$0.18±.05; $M_{\phi\phi}$-4.75±.06; $M_{r\theta}$4.13±.16; $M_{\theta\phi}$-1.63±.04; $M_{\phi r}$1.88±.13; Best double couple: NP1:ϕ_s45.00000° ,δ67.00000°,λ116.00000°. NP2:ϕ_s174.00000°,δ34.00000°,λ45.00000°. Principal axes:
T 7.1050,Plg60.0000°,Azm352.0000°; N -0.8830,Plg23.0000°,Azm214.0000°
; P -6.2220,Plg18.0000°,Azm116.0000° $M_0$6.66400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=139.0. Recorded [3 JMA] in Chiba and Ibaraki. Two events about 2 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from BB mechanism. Moment Tensor Solution. s61 Moment tensor: Scale 10^{17}Nm; M_{rr}3.38 $M_{\theta\theta}$1.43 $M_{\phi\phi}$-4.81 $M_{r\theta}$2.36 $M_{\theta\phi}$0.71 $M_{\phi r}$2.04 Best double couple: NP1:ϕ_s144.00000°,δ42.00000°,λ39.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ125.00000°. Principal axes: T 5.3900,Plg56.0000° ,Azm339.0000°; N -0.1000,Plg31.0000°,Azm187.0000°; P -5.2900,Plg13.0000° ,Azm89.0000° $M_0$5.30000×10^{17} Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ33.00000°,λ152.00000°. NP2: ϕ_s115.00000°,δ75.00000°,λ60.00000°. Principal axes: T Plg51.0000°,Azm351.0000° ; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm228.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=157.0.
IDC Error ellipse: s-maj=10.5km s-min=7.1km az=87.0.

JMA	**III**	**22 13 58 21.9–.20**	**35.86N**	**141.66E**	**27–3**	**3.6**	

¶602682999

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**22 13 59 42.6–.20**	**35.87N**	**141.66E**	**23–3**	**3.9**	

¶16449017

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**III**	**22 14 01 54.5–.79**	**35.85N–.07**	**141.63E–.07**	**26**	**3.6b**	**20**	**1-78**
IDC	III	22 14 01 50.2–.82	35.72N	141.68E	0	3.8,3.7		¶17198009
ISCJB	III	22 14 01 52.4–.60	35.77N–.06	141.73E–.06	26	3.6b,3.7		
JMA	III	22 14 01 53.3–.20	35.92N	141.66E	19–3	3.6,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=19.5km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.0km az=165.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 14 12 37.3–.86**	**35.78N–.07**	**141.62E–.08**	**26**	**3.4b**	**17**	**1-65**
IDC	III	22 14 12 33.3–1.0	35.81N	141.73E	0	3.6,3.5		¶602682969
ISCJB	III	22 14 12 35.3–.67	35.85N–.07	141.73E–.07	26	3.5b,3.5		
JMA	III	22 14 12 36.1–.20	35.90N	141.65E	22–2	3.6,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=20.2km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.3km az=152.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**22 14 24 06.5–.84**	**37.32N–.04**	**141.81E–.07**	**24**	**3.5b**	**25**	**1-63**
IDC	III	22 14 24 03.8–.87	37.42N	141.79E	0	4.0s,4.0		¶16449018
ISCJB	III	22 14 24 04.9–.57	37.29N–.04	141.93E–.06	24	3.7b,4.0		
JMA	III	22 14 24 06.2–.30	37.31N	141.88E	32–5	3.7,4.0		
NEIC	III	22 14 24 10.1–1.5	37.44N	141.67E	50–15	4.6b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=18.4km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.8km az=166.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=12.1km az=91.0.

ISC	**III**	**22 14 28 23.4–.69**	**35.83N–.06**	**141.54E–.08**	**26**	**3.9b**	**26**	**1-91**
ISCJB	III	22 14 28 21.1–.55	35.81N–.05	141.67E–.07	26	3.8b		¶17198019
JMA	III	22 14 28 22.0–.20	35.89N	141.66E	25–3	3.6		
IDC	III	22 14 28 25.3–2.2	35.76N	141.53E	43–20	3.8,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=34.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.0km s-min=12.7km az=87.0.

JMA	**III**	**22 14 30 00.7–.10**	**39.04N**	**142.41E**	**33–2**	**3.6**	

¶602682922

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**22 14 32 36.7–.10**	**36.79N**	**141.45E**	**50–2**	**3.4**	

¶16350007

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 22 14 36 40.0–1.4 38.48N–.07 142.1E–.10 35 3.6b 17 1-62
IDC III 22 14 36 37.6–6.7 38.33N 141.30E 0 3.6,3.5 **¶600562785**
ISCJB III 22 14 36 38.3–.97 38.46N–.05 142.22E–.08 35 3.4b,3.5
JMA III 22 14 36 40.0–.20 38.48N 142.11E 31–3 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=248.3km s-min=23.1km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.2km az=4.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 14 46 41.1–2.5 39.55N–.05 142.5E–.10 11–12 3.5b 24 1-60
IDC III 22 14 46 39.0–3.1 39.77N 142.60E 0 3.7,3.6 **¶17198022**
JMA III 22 14 46 41.4–.10 39.45N 142.68E 28–2 3.8,3.6
ISCJB III 22 14 46 41.2–1.4 39.45N–.05 142.69E–.09 29–7 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 15 03 06.5–.78 36.28N–.06 140.86E–.07 32 3.7b 22 0-75
IDC III 22 15 03 02.0–.85 36.25N 140.90E 0 3.8,3.7 **¶602684081**
ISCJB III 22 15 03 04.9–.66 36.27N–.05 140.93E–.06 32 3.6b,3.6s
JMA III 22 15 03 06.1–.10 36.28N 140.86E 37–1 3.9,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=23.8km s-min=16.5km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=7.1km az=27.0.
ISC III 22 15 03 47.4–.28 35.86N–.03 141.63E–.03 21–2 6.0b,5.6s 1734 1-161
NIED III 22 15 03 00 35.90N 141.90E 11 5.6W,5.6s **¶602443795**
IDC III 22 15 03 44.0–.33 35.80N 141.67E 0 5.6,5.5
BJI III 22 15 03 43.4 35.84N 141.54E 10 5.8s,5.7
ISCJB III 22 15 03 44.5–.55 35.81N–.02 141.65E–.01 12–3 5.9b,5.6s
JMA III 22 15 03 46.2–.40 35.88N 141.76E 23–4 5.8,5.6s
NEIC III 22 15 03 46.8–.07 35.79N 141.57E 19 6.1b,5.9
MOS III 22 15 03 46.9–.81 35.79N 141.68E 33 6.2b,5.8s
GCMT III 22 15 03 49.2–.10 35.88N 141.56E 15–0 5.6W,5.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ45.00000°,λ104.00000°. NP2:ϕ_s85.00000°,δ47.00000°,λ77.00000°. $M_0$3.01000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=9.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=158.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=146.0. Recorded [3 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=115.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s89,c148; s137,c323;Duration: 1ŧ6 Moment tensor: Scale 10^{17}Nm; M_{rr}3.37±.06 $M_{\theta\theta}$-3.18±.04; $M_{\phi\phi}$-0.18±.04; $M_{r\theta}$-0.64±.12; $M_{\theta\phi}$0.40±.03; $M_{\phi r}$-1.13±.15; Best double couple: NP1: ϕ_s261.00000°,δ52.00000°,λ68.00000°. NP2:ϕ_s113.00000°,δ43.00000°,λ115.00000°. Principal axes: T 3.7740,Plg72.0000°,Azm110.0000°; N -0.5010,Plg17.0000°,Azm274.0000° ; P -3.2710,Plg4.0000°,Azm6.0000° $M_0$3.52300×10^{17}
ISC III 22 15 06 41.4–.69 35.81N–.07 141.60E–.07 26 4.4b 21 1-147
IDC III 22 15 06 37.2–.69 35.74N 141.67E 0 4.6,4.4 **¶602684074**
ISCJB III 22 15 06 39.3–.55 35.76N–.06 141.71E–.06 26 4.4b,4.4
JMA III 22 15 06 40.8–.20 35.91N 141.65E 31–4 4.1,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=20.4km s-min=16.5km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.7km az=147.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 22 15 07 28.6–.10 37.22N 141.44E 34–2 3.9
¶17198027
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 15 12 22.5–.66 38.24N–.05 141.91E–.05 49–5 4.5b 108 0-150
BJI III 22 15 12 20.3 38.16N 141.91E 50 5.2s,5.1 **¶602684068**
ISCJB III 22 15 12 21.9–.60 38.28N–.04 141.86E–.06 55–4 4.5b,4.5s
IDC III 22 15 12 22.9–.64 38.28N 141.83E 47–6 4.4,4.3
JMA III 22 15 12 22.4–.10 38.28N 141.88E 47–1 4.7,4.3
NEIC III 22 15 12 23.9–.53 38.33N 141.80E 55–4 4.9b,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.4km az=29.1.
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=124.0. Recorded [3 JMA] in Iwate.
ISC III 22 15 19 28.2–.43 35.73N–.05 141.71E–.06 25 4.5b 104 1-147
IDC III 22 15 19 24.5–.50 35.76N 141.77E 0 4.4,4.3 **¶600562847**
BJI III 22 15 19 25.4 35.69N 141.42E 8 5.6b,5.3s
ISCJB III 22 15 19 26.2–.26 35.72N–.03 141.80E–.04 25 5.0s,4.5b
JMA III 22 15 19 27.5–.20 35.83N 141.80E 45–3 4.4,4.5b
NEIC III 22 15 19 29.4–.76 35.71N 141.75E 35–7 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.7km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=138.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=77.0.
ISC III 22 15 24 17.0–1.6 36.35N–.04 141.10E–.06 20–7 4.1b 43 1-91
NEIC III 22 15 24 15.5–2.9 36.32N 141.17E 10–18 4.2b **¶16449019**
ISCJB III 22 15 24 17.6–.73 36.35N–.03 141.20E–.07 38–7 4.0b
JMA III 22 15 24 18.7–.10 36.37N 141.10E 46–2 4.2
IDC III 22 15 24 19.9–2.4 36.30N 141.09E 41–23 4.1,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.2km az=1.8.
JMA Event type fe.
IDC Error ellipse: s-maj=17.1km s-min=13.5km az=101.0.
IDC III 22 15 37 15.3–3.2 35.44N 141.54E 0 3.5,3.4b
¶17198031
IDC Error ellipse: s-maj=108.0km s-min=23.0km az=62.0.
JMA III 22 15 47 33.8–.10 38.39N 141.62E 58–1 3.5
¶602682782
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 15 49 00.0–.89 39.6N–.10 142.9E–.20 18 3.6b 12 5-73
IDC III 22 15 48 56.9–.85 39.54N 142.89E 0 3.7,3.6 **¶16480267**
ISCJB III 22 15 48 58.0–.72 39.6N–.10 143.0E–.20 18 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 15 49 27.3–.49 39.21N–.03 142.45E–.03 30–3 5.3b,4.9s 1145 1-159
NIED III 22 15 49 00 39.20N 142.40E 35 5.2W,4.9s **¶17198035**
BJI III 22 15 49 21.7 39.11N 142.54E 18 5.4b,5.1b
ISCJB III 22 15 49 26.3–.59 39.20N–.02 142.36E–.02 31–4 5.3b,4.8s
MOS III 22 15 49 26.2–.89 39.24N 142.40E 33 5.5b,4.8s
JMA III 22 15 49 27.4–.10 39.22N 142.40E 34–1 5.2,4.8s
GCMT III 22 15 49 27.5–.30 39.17N 142.27E 38–1 5.1W,4.8s
NEIC III 22 15 49 27.5–.55 39.20N 142.32E 28–3 5.4b,4.8s
IDC III 22 15 49 28.5–.62 39.20N 142.41E 37–5 4.9,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ17.00000°,λ-148.00000°. NP2:ϕ_s174.00000°,δ81.00000°,λ-76.00000°. $M_0$6.75000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=155.1.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c50; s88,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.85±.28 $M_{\theta\theta}$1.51±.18; $M_{\phi\phi}$2.34±.18; $M_{r\theta}$0.76±.17; $M_{\theta\phi}$-2.18±.10; $M_{\phi r}$4.99±.22; Best double couple: NP1:ϕ_s173.00000°,δ72.00000° ,λ-68.00000°. NP2:ϕ_s301.00000°,δ28.00000°,λ-139.00000°. Principal axes: T 5.7110,Plg24.0000°,Azm247.0000°; N 1.2750,Plg21.0000°,Azm346.0000° ; P -6.9860,Plg57.0000°,Azm112.0000° $M_0$6.34900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=143.0. Recorded [4 JMA] in Miyagi.
IDC Error ellipse: s-maj=10.7km s-min=9.5km az=105.0.
ISC III 22 15 58 27.6–.53 39.19N–.04 142.48E–.04 30–3 4.9b,4.5s 403 1-151
NIED III 22 15 58 00 39.20N 142.40E 32 4.6W,4.5s **¶16342447**
JMA III 22 15 58 27.9–.10 39.22N 142.42E 33–1 4.8,4.5s
MOS III 22 15 58 27.4–.88 39.30N 142.35E 33 5.1b,4.5s
BJI III 22 15 58 27.0 39.07N 142.57E 46 5.3b,4.8b
ISCJB III 22 15 58 28.2–.45 39.20N–.02 142.35E–.03 43–3 4.8b,4.5s
IDC III 22 15 58 29.2–.70 39.18N 142.41E 40–5 4.6,4.5
NEIC III 22 15 58 30.5–.44 39.20N 142.29E 50–4 4.9b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ38.00000°,λ-96.00000°. NP2:ϕ_s167.00000°,δ53.00000°,λ-85.00000°. $M_0$9.11000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.7km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=140.0.
IDC Error ellipse: s-maj=12.6km s-min=10.7km az=133.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=141.0.
ISC III 22 16 05 49.2–.58 35.82N–.03 141.67E–.04 28–3 5.2b,4.8s 676 1-154
NIED III 22 16 05 00 35.80N 141.80E 20 5.0W,4.8s **¶16342448**
IDC III 22 16 05 44.6–.39 35.71N 141.73E 0 5.1,5.0
MOS III 22 16 05 47.8–.84 35.76N 141.71E 33 5.5b,5.0
JMA III 22 16 05 48.3–.10 35.81N 141.75E 52–2 5.1,5.0
BJI III 22 16 05 48.6 35.88N 141.68E 45 5.3b,4.9b
ISCJB III 22 16 05 48.2–.82 35.72N–.02 141.64E–.02 32–5 5.2b,4.8s
NEIC III 22 16 05 51.3–.45 35.75N 141.60E 46–4 5.2b,4.8s
GCMT III 22 16 05 51.3–.50 35.48N 141.71E 22–1 5.1W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ39.00000°,λ-93.00000°. NP2:ϕ_s172.00000°,δ51.00000°,λ-88.00000°. $M_0$3.13000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=94.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=121.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=147.9.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=137.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c22; s77,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.33±.35 $M_{\theta\theta}$0.62±.21; $M_{\phi\phi}$3.71±.21; $M_{r\theta}$-3.52±.44; $M_{\theta\phi}$-0.40±.15; $M_{\phi r}$0.29±.29; Best double couple: NP1:ϕ_s142.00000°,δ59.00000° ,λ-120.00000°. NP2:ϕ_s11.00000°,δ42.00000°,λ-50.00000°. Principal axes: T 3.8790,Plg9.0000°,Azm253.0000°; N 2.2780,Plg26.0000°,Azm159.0000° ; P -6.1590,Plg63.0000°,Azm1.0000° $M_0$5.01900×10^{16}
ISC III 22 16 12 09.0–.39 35.75N–.03 141.65E–.03 29–2 5.5b,5.2s 1337 1-161
NIED III 22 16 12 00 35.80N 142.00E 17 5.2W,5.2s **¶602682762**
IDC III 22 16 12 04.7–.37 35.78N 141.70E 0 5.1,5.1
ISCJB III 22 16 12 06.8–.61 35.73N–.02 141.68E–.02 24–4 5.4b,5.2s
BJI III 22 16 12 06.6 35.74N 141.42E 22 5.5b,5.3s
JMA III 22 16 12 07.2–.20 35.81N 141.84E 35–3 5.4,5.3s
MOS III 22 16 12 07.9–1.2 35.90N 141.81E 33 5.8b,5.3s
GCMT III 22 16 12 09.2–.20 35.76N 141.59E 19–0 5.3W,5.3s
NEIC III 22 16 12 09.2–1.1 35.68N 141.64E 31–7 5.6b,5.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ38.00000°,λ-104.00000°. NP2:ϕ_s232.00000°,δ54.00000°,λ-79.00000°. $M_0$7.17000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.7km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=156.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.4km az=104.9.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c115; s114,c207; Duration: 1ŧ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.08±.03 $M_{\theta\theta}$0.70±.02; $M_{\phi\phi}$0.37±.02; $M_{r\theta}$-0.04±.04; $M_{\theta\phi}$0.26±.01; $M_{\phi r}$0.47±.04; Best double couple: NP1:ϕ_s223.00000°,δ54.00000° ,λ-110.00000°. NP2:ϕ_s74.00000°,δ41.00000°,λ-65.00000°. Principal axes: T 0.8670,Plg7.0000°,Azm327.0000°; N 0.3560,Plg16.0000°,Azm235.0000° ; P -1.2270,Plg73.0000°,Azm79.0000° $M_0$1.04700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.
ISC III 22 16 37 06.9–2.7 39.41N–.05 142.58E–.10 8–14 3.6b 25 1-60
IDC III 22 16 37 03.9–2.6 39.54N 143.13E 0 3.6,3.5 **¶17198039**
JMA III 22 16 37 08.9–.10 39.45N 142.55E 23–2 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=27.4km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 17 06 35.7–1.0 35.84N–.08 141.63E–.07 26 3.4b 17 1-65
IDC III 22 17 06 31.4–.94 35.77N 141.76E 0 3.5,3.4 **¶17198045**
ISCJB III 22 17 06 33.2–.79 35.72N–.07 141.76E–.07 26 3.3b,3.4
JMA III 22 17 06 34.5–.20 35.86N 141.68E 17–3 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=25.3km s-min=21.1km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.0km az=15.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 17 35 16.7–.58 35.26N–.05 141.11E–.07 33 3.9b 44 0-84
NIED III 22 17 35 00 35.30N 141.10E 20 4.0W **¶16480280**
IDC III 22 17 35 12.2–.69 35.23N 141.00E 0 4.1,3.9
NEIC III 22 17 35 14.0–3.5 35.26N 141.14E 13–22 4.2b,3.9
ISCJB III 22 17 35 14.8–.41 35.21N–.03 141.19E–.06 33 3.9b,3.9
JMA III 22 17 35 15.2–.10 35.30N 141.15E 25–2 3.6,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ18.00000°,λ-6.00000°. NP2:ϕ_s236.00000°,δ88.00000°,λ-108.00000°. $M_0$1.27000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=13.6km az=93.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.5km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=2.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 17 40 55.2–.78 35.15N–.07 141.0E–.10 48 3.6b 14 2-76
ISCJB III 22 17 40 53.4–.61 35.13N–.05 141.1E–.10 48 3.7b **¶17198049**
IDC III 22 17 40 54.7–2.8 35.19N 141.05E 39–26 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.6km az=10.3.
IDC Error ellipse: s-maj=25.0km s-min=14.6km az=90.0.
ISC III 22 17 46 36.8–.41 35.29N–.04 141.11E–.05 33 4.5b 154 0-148
NIED III 22 17 46 00 35.30N 141.30E 29 4.3W **¶16342450**
JMA III 22 17 46 34.6–.20 35.32N 141.16E 36–2 4.3
ISCJB III 22 17 46 35.3–.23 35.25N–.03 141.08E–.04 33 4.4b
NEIC III 22 17 46 37.7–.63 35.27N 141.02E 38–5 4.6b
IDC III 22 17 46 38.7–1.8 35.27N 140.97E 44–17 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ22.00000°,λ43.00000°. NP2:ϕ_s71.00000°,δ75.00000°,λ106.00000°. $M_0$3.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.9km az=139.2.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.9km az=133.0. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=14.3km s-min=11.2km az=108.0.
ISC III 22 17 49 51.1–.67 35.38N–.03 141.01E–.04 11–3 4.9b,4.2s 387 0-149
NIED III 22 17 49 00 35.30N 141.10E 23 4.9W,4.2s **¶602682524**
BJI III 22 17 49 48.0 35.35N 140.89E 3 5.0b,4.8s
IDC III 22 17 49 49.4–.37 35.31N 140.86E 0 4.8,4.7
ISCJB III 22 17 49 51.6–.73 35.30N–.03 140.86E–.03 24–5 4.8b,4.3s
JMA III 22 17 49 52.1–.10 35.33N 141.14E 23–3 4.8,4.3s
MOS III 22 17 49 54.8–.84 35.70N 140.82E 33 5.1b,4.3s
NEIC III 22 17 49 54.5–.15 35.30N 140.86E 35 4.9b,4.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ17.00000°,λ35.00000°. NP2:ϕ_s75.00000°,δ80.00000°,λ104.00000°. $M_0$2.29000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=9.7km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=149.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=106.4.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=149.0. Recorded [2 JMA] in Chiba.
ISC III 22 18 00 31.8–1.8 36.24N–.05 141.02E–.08 27–14 15 1-60
IDC III 22 18 00 31.6–6.1 35.76N 140.58E 0 3.4,3.3b **¶17198050**
JMA III 22 18 00 32.7–.10 36.24N 141.04E 36–1 3.5,3.3b
ISCJB III 22 18 00 32.0–.96 36.23N–.05 141.07E–.09 45–10 3.4b,3.3b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

ISC III 22 18 03 02.7–1.0 36.81N–.03 140.53E–.04 9–7 3.7b 41 0-91
IDC III 22 18 03 01.1–.78 36.71N 140.51E 0 4.0,3.9 **¶16480284**
NEIC III 22 18 03 02.6–.39 36.72N 140.47E 10 4.4b,3.9
ISCJB III 22 18 03 02.2–.57 36.79N–.03 140.62E–.04 15–4 3.9s,3.7b
JMA III 22 18 03 02.7 36.81N 140.55E 7–1 3.8,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=12.2km az=164.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.6km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=29.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s324.00000°,δ50.00000°,λ-111.00000°. NP2:ϕ_s175.00000°,δ44.00000°,λ-67.00000°. Principal axes: T Plg3.0000°,Azm69.0000°; N Plg16.0000°,Azm338.0000°; P Plg74.0000°,Azm169.0000°
ISC III 22 18 08 06.2–1.5 37.37N–.03 141.33E–.06 17–9 3.3b 27 1-64
IDC III 22 18 08 03.8–.92 37.32N 141.24E 0 3.4,3.3 **¶17198051**
ISCJB III 22 18 08 04.8–.94 37.33N–.03 141.57E–.06 21–6 3.2b,3.3
JMA III 22 18 08 07.5–.10 37.37N 141.41E 37–2 4.0,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=17.9km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=15.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 18 19 07.0–.45 35.29N–.04 141.06E–.06 33 4.2b 78 0-91
NIED III 22 18 19 00 35.30N 141.10E 32 4.2W **¶16350014**
JMA III 22 18 19 05.2–.10 35.33N 141.14E 30–2 3.7
ISCJB III 22 18 19 05.2–.29 35.24N–.03 141.14E–.05 33 4.2b
NEIC III 22 18 19 06.5–1.7 35.26N 141.04E 28–12 4.5b
IDC III 22 18 19 08.3–2.0 35.20N 140.96E 42–19 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ23.00000°,λ43.00000°. NP2:ϕ_s85.00000°,δ75.00000°,λ107.00000°. $M_0$2.50000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=2.1.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.4km az=92.0.
IDC Error ellipse: s-maj=15.6km s-min=12.4km az=96.0.
ISC III 22 18 21 13.5–2.0 37.22N–.04 141.87E–.06 10–12 3.8b 45 1-83
NEIC III 22 18 21 17.0–.56 37.16N 141.94E 35 4.2b **¶16480286**
IDC III 22 18 21 17.8–3.7 37.19N 141.78E 38–36 4.0L,3.9
JMA III 22 18 21 17.9–.20 37.31N 141.80E 36–4 4.0,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.9km az=106.0.
IDC Error ellipse: s-maj=23.6km s-min=19.9km az=23.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 18 24 19.5–.53 35.25N–.04 141.10E–.07 35 4.2b 72 0-118
NIED III 22 18 24 00 35.30N 141.10E 26 4.2W **¶601625968**
ISCJB III 22 18 24 17.4–.34 35.23N–.03 141.21E–.05 35 4.2b
JMA III 22 18 24 17.8–.10 35.27N 141.15E 32–2 3.9
NEIC III 22 18 24 20.0–.76 35.21N 141.08E 38–6 4.5b
IDC III 22 18 24 22.2–2.0 35.23N 141.01E 54–17 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ32.00000°,λ159.00000°. NP2:ϕ_s18.00000°,δ79.00000°,λ60.00000°. $M_0$2.10000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=174.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.6km az=87.0.
IDC Error ellipse: s-maj=15.5km s-min=13.0km az=99.0.
ISC III 22 18 25 42.0–.43 35.30N–.04 141.00E–.07 33 4.3b 66 0-148
NIED III 22 18 25 00 35.30N 141.00E 29 4.3W **¶602683548**
IDC III 22 18 25 37.7–.64 35.28N 140.91E 0 4.3,4.2
ISCJB III 22 18 25 40.4–.30 35.27N–.03 141.05E–.06 33 4.3b,3.1s
JMA III 22 18 25 40.5–.20 35.33N 141.13E 30–3 4.2,3.1s
NEIC III 22 18 25 42.7–.30 35.29N 140.97E 35 4.6b,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ16.00000°,λ50.00000°. NP2:ϕ_s88.00000°,δ78.00000°,λ100.00000°. $M_0$3.74000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.6km az=15.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=7.0km az=90.0. Recorded [1 JMA] in Chiba.
ISC III 22 18 33 39.7–.00 36.46N–.05 141.58E–.08 26 3.5b 19 1-64
NIED III 22 18 33 00 36.50N 141.80E 17 3.8W **¶602683515**
JMA III 22 18 33 39.4–.10 36.55N 141.75E 27–3 3.9
IDC III 22 18 33 41.7–3.8 36.40N 141.66E 44–33 3.9L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s299.00000°,δ32.00000°,λ-146.00000°. NP2:ϕ_s179.00000°,δ73.00000°,λ-62.00000°. $M_0$5.20000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=37.6km s-min=15.3km az=77.0.
JMA III 22 18 37 32.2–.20 38.98N 142.35E 34–2 3.5
¶602683508
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 18 50 10.8–.93 37.65N–.04 141.75E–.05 44–8 4.4b 135 1-146
NIED III 22 18 50 00 37.70N 141.60E 50 4.2W **¶16342636**
ISCJB III 22 18 50 10.5–.52 37.62N–.03 141.66E–.05 58–3 4.3b,3.6s
JMA III 22 18 50 12.0–.10 37.68N 141.61E 48–2 4.2,3.6s
NEIC III 22 18 50 12.3–.49 37.66N 141.60E 56–4 4.5b,3.6s
IDC III 22 18 50 13.4–2.0 37.67N 141.54E 63–18 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ33.00000°,λ84.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ94.00000°. $M_0$2.26000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=10.1.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=98.0.
IDC Error ellipse: s-maj=13.9km s-min=10.9km az=91.0.
ISC III 22 18 57 42.3–.63 36.31N–.07 141.78E–.08 19 3.8b 34 3-90
ISCJB III 22 18 57 40.6–.39 36.29N–.05 141.80E–.06 19 3.8b **¶16480292**
IDC III 22 18 57 45.5–2.7 36.33N 141.68E 42–27 3.9L,3.8
NEIC III 22 18 57 45.8–1.0 36.28N 141.69E 47–10 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=6.4km az=24.0.
IDC Error ellipse: s-maj=21.4km s-min=16.7km az=46.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=6.6km az=48.0.
JMA III 22 19 03 20.5–.20 35.34N 141.11E 27–4 2.4
¶603049973
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 19 07 12.4–.76 35.64N–.06 141.86E–.08 22 3.9b 40 1-76
IDC III 22 19 07 09.1–.90 35.64N 141.95E 0 3.9,3.8b **¶602683450**
JMA III 22 19 07 10.8–.30 35.70N 141.92E 20–3 3.6,3.8b
ISCJB III 22 19 07 10.3–.52 35.65N–.04 141.99E–.06 22 3.9b,3.5s
NEIC III 22 19 07 14.2–.40 35.57N 141.85E 35 4.1b,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=17.4km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.2km az=164.4.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=5.9km az=74.0.
ISC III 22 19 07 45.0–.67 35.63N–.04 141.76E–.04 24–4 4.9b,4.5s 355 1-152
IDC III 22 19 07 41.5–.36 35.62N 141.82E 0 4.8,4.7 **¶17198057**
BJI III 22 19 07 43.8 35.63N 141.60E 26 5.0b,4.8b
ISCJB III 22 19 07 43.3–.89 35.59N–.03 141.76E–.03 21–6 4.8b,4.5s
MOS III 22 19 07 44.9–1.1 35.72N 141.80E 33 5.1b,4.5s
JMA III 22 19 07 44.1–.20 35.69N 141.81E 17–3 4.5,4.5s
NEIC III 22 19 07 46.1–1.3 35.60N 141.74E 30–9 4.9b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=9.1km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=155.2.
MOS Error ellipse: s-maj=7.8km s-min=4.7km az=112.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=118.0. Recorded [3 JMA] in Chiba.
JMA III 22 19 08 34.6–.10 35.72N 140.90E 8–1 4.1
¶603049974
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 22 19 09 58.5–.52 36.25N–.04 141.66E–.04 26–3 4.9b,4.5s 389 1-147
NIED III 22 19 09 00 36.20N 141.70E 23 4.9W,4.5s **¶16342638**
IDC III 22 19 09 54.9–.52 36.21N 141.63E 0 4.7,4.6
NEIC III 22 19 09 56.7–2.2 36.23N 141.47E 9–13 4.9b,4.6
BJI III 22 19 09 56.3 36.38N 141.27E 10 5.0b,5.0b
ISCJB III 22 19 09 57.7–.85 36.19N–.03 141.54E–.03 27–5 4.8b,4.5s
JMA III 22 19 09 58.0–.20 36.22N 141.68E 52–5 5.0,4.5s
MOS III 22 19 10 00.1–1.0 36.57N 141.53E 33 5.2b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ21.00000°,λ118.00000°. NP2:ϕ_s15.00000°,δ72.00000°,λ80.00000°. $M_0$2.17000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=11.9km az=123.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.0km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=145.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=113.3.
JMA III 22 19 14 02.8–.20 36.23N 141.79E 36 3.5
¶602683440
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 19 39 39.3–2.0 36.74N–.06 141.88E–.08 6–11 3.4b 23 1-45
IDC III 22 19 39 38.5–4.8 36.70N 141.96E 0 3.7,3.7 **¶600563102**
JMA III 22 19 39 42.1–.20 36.64N 141.83E 46–5 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=85.3km s-min=37.6km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 22 20 31 39.4–.20 39.94N 142.41E 34–2 3.7
NIED III 22 20 31 00 39.90N 142.40E 32 3.5W **¶603145387**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ38.00000°,λ-144.00000°. NP2:ϕ_s146.00000°,δ69.00000°,λ-58.00000°. $M_0$1.96000×10^{14}
ISC III 22 20 46 51.6–1.1 35.27N–.04 141.13E–.09 25 3.5b 20 0-55
IDC III 22 20 46 46.6–2.3 35.36N 141.49E 0 3.7,3.6 **¶17198067**
ISCJB III 22 20 46 49.4–1.0 35.28N–.05 141.3E–.10 25 3.6b,3.6
JMA III 22 20 46 51.3–.10 35.29N 141.13E 25–3 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=64.7km s-min=21.9km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=6.5km az=166.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 20 50 10.1–1.7 37.27N–.04 141.82E–.07 30–11 4.2b 88 1-146
NIED III 22 20 50 00 37.30N 141.80E 32 4.0W **¶16350019**
IDC III 22 20 50 05.5–.66 37.23N 141.83E 0 4.2,4.1
ISCJB III 22 20 50 09.9–.69 37.26N–.03 141.87E–.06 43–5 4.1b,4.1
JMA III 22 20 50 10.8–.20 37.28N 141.81E 44–3 4.3,4.1
NEIC III 22 20 50 12.1–.62 37.28N 141.83E 47–5 4.4b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ33.00000°,λ-98.00000°. NP2:ϕ_s88.00000°,δ57.00000°,λ-85.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=14.3km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.8km az=20.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=140.0.
JMA III 22 20 52 58.6–.10 37.30N 141.77E 33–2 3.3
¶603049975
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 20 53 26.8–2.6 35.17N–.04 141.00E–.06 2–16 4.2b 68 1-84
NIED III 22 20 53 00 35.30N 141.20E 17 4.3W **¶16462116**
IDC III 22 20 53 27.0–.68 35.24N 140.93E 0 4.1,3.9
JMA III 22 20 53 28.9–.20 35.28N 141.21E 37–3 3.7,3.9
NEIC III 22 20 53 28.3–.27 35.18N 140.92E 10 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ50.00000°,λ143.00000°. NP2:ϕ_s80.00000°,δ63.00000°,λ46.00000°. $M_0$2.67000×10^{15}
IDC Error ellipse: s-maj=17.8km s-min=15.2km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.6km az=74.0.
ISC III 22 20 59 43.4–.96 35.22N–.05 141.3E–.10 27 3.6b 20 1-59
IDC III 22 20 59 39.4–.98 35.28N 141.49E 0 3.7,3.7b **¶17198068**
ISCJB III 22 20 59 41.4–.74 35.29N–.04 141.48E–.08 27 3.6b,3.7b
JMA III 22 20 59 44.7–.10 35.29N 141.15E 35–3 3.3,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=26.5km s-min=17.5km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.3km az=171.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 21 05 13.9–1.8 35.55N–.10 141.0E–.10 33 10 0-56
IDC III 22 21 05 07.2–2.9 35.59N 141.40E 0 3.3,3.2b **¶17198069**
JMA III 22 21 05 18.2–.20 35.45N 140.42E 54–2 2.6,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=67.4km s-min=27.5km az=66.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 22 21 19 51.9–.10 36.81N 141.04E 46–1 2.2
¶603049976
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 22 21 41 34.2–.10 39.01N 142.66E 27–2 3.5
¶602683948
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 22 21 55 36.5–.50 40.28N–.04 142.55E–.04 13–2 4.8b,4.4s 350 1-146
NIED III 22 21 55 00 40.30N 142.60E 8 4.7W,4.4s **¶16342646**
IDC III 22 21 55 34.0–.49 40.25N 142.54E 0 4.5,4.4
ISCJB III 22 21 55 34.9–.88 40.28N–.03 142.52E–.03 10–5 4.7b,4.4s
BJI III 22 21 55 34.8 40.42N 142.95E 29 5.0b,4.6b
JMA III 22 21 55 35.4–.20 40.25N 142.61E 24–2 4.7,4.6b
MOS III 22 21 55 38.7–.98 40.46N 142.46E 33 5.0b,4.6b
NEIC III 22 21 55 39.5–1.5 40.27N 142.46E 31–11 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ52.00000°,λ-34.00000°. NP2:ϕ_s236.00000°,δ64.00000°,λ-136.00000°. $M_0$1.18000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=11.5km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=158.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=4.7km az=100.6.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.8km az=144.0.
ISC III 22 22 41 48.6–.98 38.89N–.07 142.37E–.07 27 3.9b 19 1-88
IDC III 22 22 41 44.5–1.1 38.86N 142.49E 0 4.1,3.9b **¶17198082**
ISCJB III 22 22 41 47.2–.78 38.86N–.06 142.47E–.07 27 3.9b,3.9b
JMA III 22 22 41 48.8–.20 38.88N 142.38E 31–2 4.0,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=30.8km s-min=26.5km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.0km az=152.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 22 43 49.7–4.1 37.0N–.10 141.1E–.10 4–17 3.8b 11 0-57
IDC III 22 22 43 39.0–2.5 36.73N 142.23E 0 3.8,3.8b **¶600563248**
JMA III 22 22 43 56.1 37.10N 140.80E 5–1 3.2,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=67.7km s-min=29.5km az=65.0.
JMA Event type fe.
ISC III 22 22 45 47.8–1.1 36.99N–.04 140.67E–.05 8–9 3.5b 21 0-57
IDC III 22 22 45 45.9–2.0 37.07N 140.96E 0 3.5,3.4b **¶17198084**
ISCJB III 22 22 45 47.4–1.0 37.01N–.03 140.91E–.07 14–4 3.4b,3.4b
JMA III 22 22 45 48.8 37.02N 140.77E 10–1 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=28.9km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.6km az=7.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s343.00000°,δ64.00000°,λ-86.00000°. NP2:ϕ_s154.00000°,δ26.00000°,λ-98.00000°. Principal axes: T Plg19.0000°,Azm70.0000°; N Plg4.0000°,Azm161.0000°; P Plg71.0000°,Azm262.0000°
ISC III 22 23 20 38.3–.73 36.98N–.06 141.93E–.06 19 3.5b 25 1-146
IDC III 22 23 20 35.1–.82 36.88N 142.18E 0 3.8,3.7 **¶17198087**
ISCJB III 22 23 20 36.2–.62 36.88N–.06 142.15E–.06 19 3.6b,3.7
JMA III 22 23 20 41.3–.40 37.04N 141.80E 43 3.7,3.7
ISC Event type ke.

IDC Error ellipse: s-maj=21.7km s-min=19.6km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.2km az=150.1.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 22 23 35 57.9–1.1 35.96N–.09 141.57E–.08 26 3.3b 13 1-65
IDC III 22 23 35 54.4–1.5 36.20N 141.72E 0 3.4,3.3 **¶17198089**
ISCJB III 22 23 35 55.7–1.0 35.99N–.10 141.68E–.09 26 3.3b,3.3
JMA III 22 23 35 55.6–.20 35.88N 141.67E 14–2 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=34.7km s-min=30.3km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=8.6km az=151.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 23 46 52.9–.44 35.26N–.03 141.03E–.04 31–2 4.8b,4.5s 321 0-152
NIED III 22 23 46 00 35.30N 141.20E 17 4.9W,4.5s **¶602683057**
IDC III 22 23 46 47.9–.48 35.21N 141.09E 0 4.6,4.5
BJI III 22 23 46 49.8 35.05N 140.97E 30 5.0b,4.8s
JMA III 22 23 46 50.5–.10 35.26N 141.23E 38–2 5.0,4.8s
ISCJB III 22 23 46 52.9–.46 35.20N–.02 140.94E–.03 40–4 4.7b,4.5s
MOS III 22 23 46 52.3–1.3 35.35N 141.04E 33 5.0b,4.4s
NEIC III 22 23 46 54.0–.19 35.24N 140.93E 35 4.8b,4.4s
GCMT III 22 23 46 54.0–.40 35.27N 141.17E 22–1 5.0W,4.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ45.00000°,λ-166.00000°. NP2:ϕ_s195.00000°,δ80.00000°,λ-46.00000°. M_o2.52000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.4km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=20.7.
MOS Error ellipse: s-maj=7.9km s-min=4.6km az=116.9.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.5km az=145.0. Recorded [2 JMA] in Chiba and Saitama.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s68,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.56±.23 $M_{\theta\theta}$-2.84±.16; $M_{\phi\phi}$1.28±.12; $M_{r\theta}$1.00±.20; $M_{\theta\phi}$-1.35±.08; $M_{\phi r}$1.67±.26; Best double couple: NP1:ϕ_s40.00000°,δ72.00000°,λ48.00000°. NP2:ϕ_s291.00000°,δ45.00000°,λ154.00000°. Principal axes: T 3.1020,Plg46.0000°,Azm267.0000°; N 0.5600,Plg39.0000°,Azm56.0000° ; P -3.6630,Plg16.0000°,Azm159.0000° M_o3.38200×10^{16}
JMA III 22 23 48 12.1–.10 39.28N 142.35E 28–1 3.7
¶16462107
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 22 23 57 06.0–2.6 34.75N 140.45E 0 3.9,3.8
¶17198094
IDC Error ellipse: s-maj=101.1km s-min=26.5km az=63.0.
ISC III 23 00 06 43.0–.29 39.26N–.03 142.39E–.03 37–1 5.2b,4.6s 1175 1-159
NIED III 23 00 06 00 39.30N 142.40E 32 4.9W,4.6s **¶602443838**
BJI III 23 00 06 40.3 39.30N 142.30E 35 5.2b,5.2b
JMA III 23 00 06 41.6–.10 39.25N 142.40E 33–1 5.1,5.2b
MOS III 23 00 06 42.0–.87 39.37N 142.36E 40 5.3b,5.2b
ISCJB III 23 00 06 42.0–.37 39.24N–.02 142.33E–.02 40–3 5.1b,4.6s
GCMT III 23 00 06 43.5–.30 39.17N 142.34E 37–1 5.0W,4.6s
NEIC III 23 00 06 43.5–.67 39.21N 142.25E 41–6 5.3b,4.6s
IDC III 23 00 06 44.6–1.9 39.22N 142.38E 53–17 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ28.00000°,λ-156.00000°. NP2:ϕ_s159.00000°,δ79.00000°,λ-64.00000°. M_o2.84000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=97.9.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=157.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c32; s81,c119; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.39±.25 $M_{\theta\theta}$1.83±.16; $M_{\phi\phi}$0.56±.16; $M_{r\theta}$-0.14±.13; $M_{\theta\phi}$-1.43±.08; $M_{\phi r}$3.39±.19; Best double couple: NP1:ϕ_s160.00000°,δ73.00000°,λ-65.00000°. NP2:ϕ_s282.00000°,δ30.00000°,λ-144.00000°. Principal axes: T 3.6820,Plg24.0000°,Azm231.0000°; N 1.0020,Plg23.0000°,Azm332.0000° ; P -4.6830,Plg55.0000°,Azm101.0000° M_o4.18200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=156.0. Recorded [3 JMA] in Aomori, Iwate and Miyagi.
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=109.0.
ISC III 23 00 07 58.0–.68 35.04N–.09 140.99E–.09 48 4.4b 21 0-92
NIED III 23 00 07 00 35.30N 141.20E 5 4.7W **¶16342653**
IDC III 23 00 07 51.2–.87 35.00N 141.12E 0 4.5,4.4b
JMA III 23 00 07 54.4–.20 35.26N 141.22E 35–5 4.7,4.4b
ISCJB III 23 00 07 56.5–.58 35.07N–.08 141.04E–.09 48 4.3b,4.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ41.00000°,λ-73.00000°. NP2:ϕ_s332.00000°,δ51.00000°,λ-105.00000°. M_o1.49000×10^{16}
JMA Event type fe.
ISCJB Event type fe.
ISC III 23 00 21 12.6–.63 38.87N–.05 142.03E–.08 51 4.0b 35 1-89
NIED III 23 00 21 00 38.90N 142.00E 56 4.2W **¶17198100**
ISCJB III 23 00 21 10.8–.50 38.84N–.04 142.13E–.06 51 3.9b
JMA III 23 00 21 12.0–.10 38.85N 142.04E 45–2 4.0
IDC III 23 00 21 15.4–2.4 38.86N 141.99E 78–21 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ36.00000°,λ76.00000°. NP2:ϕ_s40.00000°,δ55.00000°,λ100.00000°. M_o2.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=40.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=14.1km az=110.0.
JMA III 23 00 55 15.3–.20 37.75N 141.97E 26–4 3.2
¶603145389
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 23 00 57 37.3–.10 35.25N 141.17E 21–2 4.5
¶16462135
JMA III 23 01 21 01.9–.20 36.93N 141.62E 35–3 3.2
¶602688299
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 01 21 49.0–2.1 38.28N–.05 142.23E–.08 5–11 4.2b 24 1-62
IDC III 23 01 21 38.5–1.2 39.43N 145.34E 0 3.9,3.7 **¶17198105**
ISCJB III 23 01 21 49.8–1.5 38.35N–.05 142.33E–.08 18–8 3.9b,3.7
JMA III 23 01 21 51.2–.20 38.43N 142.28E 25–2 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=22.2km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=7.9km az=17.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 01 22 07.2–1.3 38.0N–.10 141.3E–.20 68 4.1b 6 3-63
ISCJB III 23 01 22 05.2–1.2 38.1N–.10 141.4E–.20 68 4.0b **¶603049979**
IDC III 23 01 22 08.1–3.9 38.03N 141.28E 76–35 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.3km s-min=18.2km az=23.9.
IDC Error ellipse: s-maj=39.3km s-min=24.3km az=91.0.
ISC III 23 01 35 55.8–1.4 36.79N–.08 140.9E–.10 35 3.4b 13 0-57
IDC III 23 01 35 51.9–2.5 36.77N 140.71E 0 3.5,3.3 **¶602688080**
ISCJB III 23 01 35 54.1–1.2 36.75N–.06 140.92E–.10 35 3.3b,3.3
JMA III 23 01 36 01.7 37.08N 140.76E 8–1 2.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=61.0km s-min=30.7km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=8.5km az=16.1.
ISC III 23 01 45 04.2–2.0 39.46N–.06 142.51E–.08 20–6 3.6b 20 1-88
JMA III 23 01 45 02.2–.10 39.45N 142.63E 24–1 3.7 **¶17198108**
ISCJB III 23 01 45 02.1–1.5 39.47N–.05 142.60E–.07 9–8 3.5b
IDC III 23 01 45 03.3–1.3 39.80N 142.49E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=8.2km az=34.0.
IDC Error ellipse: s-maj=34.7km s-min=26.8km az=66.0.
IDC III 23 02 23 59.4–5.0 40.40N 142.19E 132–42 3.7,3.6
¶17198111
IDC Error ellipse: s-maj=47.9km s-min=29.2km az=76.0.
ISC III 23 02 40 21.7–1.4 37.00N–.05 140.77E–.05 3–9 3.6b 27 0-93
NIED III 23 02 40 00 37.10N 140.80E 5 3.7W **¶600563495**
ISCJB III 23 02 40 21.4–.75 37.04N–.03 140.84E–.05 10–4 3.5b
IDC III 23 02 40 21.2–.82 36.97N 140.80E 0 3.9,3.7
JMA III 23 02 40 22.3 37.05N 140.76E 8–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ43.00000°,λ-93.00000°. NP2:ϕ_s230.00000°,δ47.00000°,λ-88.00000°. M_o4.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.4km az=25.9.
IDC Error ellipse: s-maj=21.5km s-min=17.0km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s45.00000°,δ49.00000°,λ-96.00000°. NP2:ϕ_s234.00000°,δ41.00000°,λ-84.00000°. Principal axes: T Plg4.0000°,Azm139.0000°; N Plg4.0000°,Azm49.0000°; P Plg84.0000° ,Azm274.0000°
ISC III 23 03 55 51.9–4.0 38.07N–.08 142.5E–.10 8–27 3.1b 21 1-48
JMA III 23 03 55 52.5–.30 38.03N 142.49E 17–4 3.6 **¶17198119**
IDC III 23 03 55 53.6–3.5 38.17N 142.16E 0 3.3,3.3b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=86.0km s-min=30.6km az=154.0.
JMA III 23 03 57 47.6–.10 38.82N 142.07E 42–2 3.7
¶602687657
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 04 05 01.4–2.0 38.13N–.06 142.20E–.07 11–12 3.6b 27 1-68
NIED III 23 04 05 00 38.20N 142.20E 44 3.7W **¶17198121**
JMA III 23 04 05 03.9–.20 38.15N 142.22E 40–3 3.6
IDC III 23 04 05 11.2–2.8 38.15N 142.19E 95–26 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ20.00000°,λ28.00000°. NP2:ϕ_s77.00000°,δ81.00000°,λ108.00000°. M_o3.50000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=26.2km s-min=14.1km az=108.0.
ISC III 23 04 13 11.0–.67 39.76N–.04 142.38E–.04 46–5 4.8b,4.0s 266 0-145
NIED III 23 04 13 00 39.80N 142.40E 41 4.5W,4.0s **¶16342722**
ISCJB III 23 04 13 10.0–.42 39.74N–.03 142.36E–.04 50–2 4.7b,3.9s
BJI III 23 04 13 09.9 39.68N 142.18E 48 5.0b,4.7b
JMA III 23 04 13 10.8–.10 39.76N 142.36E 42–1 4.4,4.7b
MOS III 23 04 13 11.3–.86 39.93N 142.23E 52 4.9b,4.7b
IDC III 23 04 13 13.4–1.9 39.72N 142.30E 66–17 4.4,4.3
NEIC III 23 04 13 13.2–.61 39.74N 142.32E 66–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ17.00000°,λ79.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ93.00000°. M_o6.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=32.9.
JMA Event type fe.
MOS Error ellipse: s-maj=7.7km s-min=4.7km az=108.8.
IDC Error ellipse: s-maj=13.5km s-min=10.0km az=117.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=115.0.
ISC III 23 04 14 13.0–1.0 37.52N–.06 141.9E–.10 35 4.4b 24 1-146
NIED III 23 04 14 00 37.50N 141.90E 41 4.5W **¶16450721**
ISCJB III 23 04 14 10.8–.64 37.49N–.05 141.98E–.08 35 4.2b
JMA III 23 04 14 12.6–.20 37.54N 141.89E 30 4.3
IDC III 23 04 14 29.8–1.6 37.07N 140.30E 151–14 4.2,4.0
NEIC III 23 04 14 30.2–1.8 37.10N 140.32E 157–16 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ30.00000°,λ-45.00000°. NP2:ϕ_s16.00000°,δ69.00000°,λ-113.00000°. M_o5.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=14.2km az=94.0.
NEIC Event type se. Error ellipse: s-maj=20.5km s-min=14.8km az=92.0.
ISC III 23 04 19 05.9–1.0 35.20N–.03 140.99E–.05 31–7 4.5b,4.1s 156 1-148
NIED III 23 04 19 00 35.20N 141.30E 8 4.6W,4.1s **¶16342723**
JMA III 23 04 19 03.8–.10 35.25N 141.22E 32–3 4.6,4.1s
BJI III 23 04 19 05.7 35.02N 140.82E 43 4.9b,4.6b
ISCJB III 23 04 19 06.0–.49 35.10N–.03 140.99E–.04 45–4 4.5b,4.0s
NEIC III 23 04 19 07.7–.69 35.16N 140.96E 44–6 4.7b,4.0s
IDC III 23 04 19 07.9–1.4 35.16N 141.02E 47–13 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ38.00000°,λ-175.00000°. NP2:ϕ_s216.00000°,δ87.00000°,λ-53.00000°. M_o1.03000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=166.7.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=108.0. Recorded [1 JMA] in Chiba and Saitama.
IDC Error ellipse: s-maj=13.8km s-min=7.6km az=82.0.
ISC III 23 04 23 34.7–1.3 35.22N–.05 141.1E–.10 35 3.7b 12 1-66
NIED III 23 04 23 00 35.20N 141.20E 17 3.7W **¶602688178**
IDC III 23 04 23 27.8–1.1 35.61N 141.98E 0 3.8,3.7b
ISCJB III 23 04 23 33.3–1.2 35.21N–.06 141.3E–.20 35 3.7b,3.7b
JMA III 23 04 23 33.6–.10 35.24N 141.16E 27–3 3.5,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ46.00000°,λ-179.00000°. NP2:ϕ_s211.00000°,δ90.00000°,λ-44.00000°. M_o4.70000×10^{14}
IDC Error ellipse: s-maj=30.4km s-min=20.8km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=7.8km az=169.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 04 35 01.0–2.6 38.38N–.06 142.1E–.10 27–15 3.9b 20 1-68
IDC III 23 04 34 55.5–1.8 38.48N 142.68E 0 3.8,3.7 **¶17198124**
JMA III 23 04 35 01.5–.10 38.39N 142.13E 37–2 4.1,3.7
ISCJB III 23 04 35 01.4–1.6 38.38N–.05 142.1E–.10 44–13 3.7b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 23 04 40 15.9–.80 36.27N–.04 141.07E–.05 26–5 4.3b,3.4s 71 1-147
NIED III 23 04 40 00 36.30N 141.00E 35 4.3W,3.4s **¶16373191**
ISCJB III 23 04 40 15.8–.65 36.29N–.03 141.08E–.05 39–5 4.2b,3.3s
JMA III 23 04 40 16.1–.10 36.31N 141.04E 46–1 4.3,3.3s
NEIC III 23 04 40 17.4–.83 36.20N 141.03E 40–7 4.6b,3.3s
IDC III 23 04 40 19.3–2.1 36.22N 140.98E 55–18 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ22.00000°,λ160.00000°. NP2:ϕ_s17.00000°,δ83.00000°,λ70.00000°. M_o2.71000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.5km az=9.4.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=7.0km az=103.0.
IDC Error ellipse: s-maj=14.0km s-min=12.7km az=71.0.
JMA III 23 04 47 46.4–.10 37.39N 141.47E 40–2 3.5
¶602688148
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 05 03 13.3–.63 35.26N–.04 141.13E–.07 35 4.1b 42 0-125
NIED III 23 05 03 00 35.30N 141.20E 20 4.1W **¶16480373**
JMA III 23 05 03 11.4–.10 35.26N 141.20E 33–2 3.7
ISCJB III 23 05 03 12.0–.36 35.19N–.03 141.17E–.05 35 4.0b,3.4s
NEIC III 23 05 03 15.6–.76 35.12N 141.05E 53–7 4.6b,3.4s
IDC III 23 05 03 15.6–2.6 35.14N 141.01E 53–24 4.1L,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ25.00000°,λ-169.00000°. NP2:ϕ_s219.00000°,δ85.00000°,λ-66.00000°. M_o1.65000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.0km az=0.4.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.0km az=71.0.
IDC Error ellipse: s-maj=16.1km s-min=14.0km az=88.0.
ISC III 23 05 17 35.0–1.1 37.19N–.08 141.45E–.08 33 3.7b 16 1-90
IDC III 23 05 17 29.9–1.1 37.13N 141.62E 0 3.9,3.7 **¶602687615**
JMA III 23 05 17 33.4–.30 37.20N 141.48E 37–3 3.6,3.7
ISCJB III 23 05 17 33.2–.83 37.17N–.08 141.54E–.07 33 3.7b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 23 05 17 41.4–.10 38.33N 141.88E 45–2 3.8
¶602687613
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 23 05 22 00.9–4.0 34.70N 140.38E 0 3.6,3.4b
¶17198130

IDC Error ellipse: s-maj=135.1km s-min=31.1km az=64.0.
IDC III 23 07 06 07.4–2.6 35.06N 141.75E 0 3.6,3.6b
¶17198139
IDC Error ellipse: s-maj=61.6km s-min=26.3km az=73.0.
JMA III 23 07 12 01.0–.10 37.35N 141.36E 35–1 3.6
¶602687270
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 07 16 32.7–.97 36.73N–.04 140.99E–.07 45–8 3.9b 40 0-147
NIED III 23 07 16 00 36.70N 141.00E 50 3.9W **¶16349357**
ISCJB III 23 07 16 31.8–.57 36.71N–.03 141.03E–.06 53–4 3.9b
JMA III 23 07 16 32.7–.10 36.72N 140.98E 49–1 4.0
IDC III 23 07 16 34.2–2.3 36.69N 140.95E 58–23 4.0,3.9
NEIC III 23 07 16 34.6–1.1 36.71N 140.88E 63–11 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ29.00000°,λ-69.00000°. NP2:ϕ_s190.00000°,δ63.00000°,λ-102.00000°. $M_0$9.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.4km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.4km s-min=11.1km az=69.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=9.3km az=57.0. Recorded [3 JMA] in Ibaraki.
ISC III 23 07 25 17.9–.78 36.84N–.03 140.55E–.05 10 3.4b 16 0-91
NIED III 23 07 25 00 36.80N 140.60E 5 3.6W **¶17198143**
IDC III 23 07 25 16.5–1.1 36.75N 140.57E 0 3.7,3.5
JMA III 23 07 25 17.8 36.84N 140.57E 4–1 3.5,3.5
ISCJB III 23 07 25 17.2–.59 36.82N–.03 140.64E–.07 10 3.4b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ26.00000°,λ-53.00000°. NP2:ϕ_s158.00000°,δ69.00000°,λ-107.00000°. $M_0$2.45000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s190.00000°,δ52.00000°,λ-68.00000°. NP2:ϕ_s336.00000°,δ43.00000°,λ-116.00000°. Principal axes: T Plg5.0000°,Azm264.0000°; N Plg17.0000°,Azm356.0000°; P Plg72.0000° ,Azm160.0000°
ISCJB Event type fe.
ISC III 23 07 32 00.8–1.1 39.03N–.07 142.30E–.09 27 3.7b 14 1-59
IDC III 23 07 31 56.6–1.2 38.87N 142.46E 0 3.8,3.7 **¶17198147**
ISCJB III 23 07 31 59.1–.82 38.99N–.07 142.41E–.07 27 3.7s,3.6b
JMA III 23 07 32 00.1–.10 39.06N 142.40E 32–2 3.5,3.6b
NIED III 23 07 32 00 39.10N 142.40E 23 3.6W,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=23.7km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.5km az=3.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ35.00000°,λ-98.00000°. NP2:ϕ_s121.00000°,δ55.00000°,λ-84.00000°. $M_0$3.34000×10^{14}
ISC III 23 08 21 00.9–1.8 37.89N–.07 141.8E–.10 51–16 3.5b 29 1-146
NIED III 23 08 21 00 37.90N 141.80E 59 3.7W **¶600563730**
JMA III 23 08 21 00.7–.10 37.87N 141.82E 47–2 3.9
ISCJB III 23 08 21 00.3–1.0 37.88N–.05 141.8E–.10 61–9 3.7b
IDC III 23 08 21 04.1–3.6 37.82N 141.74E 83–33 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ16.00000°,λ70.00000°. NP2:ϕ_s222.00000°,δ75.00000°,λ95.00000°. $M_0$4.49000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.9km az=27.0.
IDC Error ellipse: s-maj=29.9km s-min=18.2km az=95.0.
ISC III 23 08 34 05.0–2.5 36.70N–.04 141.84E–.07 30–17 3.9b 48 1-147
IDC III 23 08 34 00.5–.69 36.65N 141.87E 0 4.0,3.9 **¶16462139**
JMA III 23 08 34 04.2–.20 36.71N 141.85E 49–4 4.5,3.9
ISCJB III 23 08 34 04.4–.79 36.70N–.04 141.88E–.06 38–7 3.8b,3.5s
NEIC III 23 08 34 06.4–1.2 36.69N 141.90E 42–11 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=16.6km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.1km az=8.4.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.2km az=105.0.
ISC III 23 08 51 27.5–1.2 35.69N–.07 140.92E–.10 28–6 3.4b 14 0-59
JMA III 23 08 51 27.7–.10 35.70N 140.86E 28–1 3.3 **¶17198154**
IDC III 23 08 51 30.9–10 35.63N 140.71E 48–65 3.4,3.4
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=172.6km s-min=33.7km az=65.0.
ISC III 23 09 08 56.3–1.6 36.60N–.04 141.22E–.07 27–10 3.8b 32 1-78
NIED III 23 09 08 00 36.60N 141.20E 35 3.9W **¶17198155**
ISCJB III 23 09 08 55.8–.91 36.58N–.04 141.26E–.07 42–8 3.6b
JMA III 23 09 08 56.6–.10 36.61N 141.18E 45–2 4.0
IDC III 23 09 09 00.5–2.0 36.47N 141.10E 70–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ14.00000°,λ68.00000°. NP2:ϕ_s45.00000°,δ77.00000°,λ95.00000°. $M_0$7.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.9km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=10.3km az=75.0.
ISC III 23 09 22 56.5–2.0 36.90N–.08 141.8E–.10 19 3.5b 18 1-61
NIED III 23 09 22 00 36.70N 141.90E 35 3.9W **¶17198160**
JMA III 23 09 22 56.9–.50 36.72N 141.86E 37 3.9
IDC III 23 09 22 57.8–2.5 37.21N 141.56E 0 3.8L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ21.00000°,λ83.00000°. NP2:ϕ_s29.00000°,δ70.00000°,λ93.00000°. $M_0$7.71000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=65.4km s-min=26.2km az=57.0.
ISC III 23 09 32 19.9–1.8 35.9N–.10 141.1E–.20 35 3.8b 10 0-56
JMA III 23 09 32 21.4–.10 35.89N 140.87E 39–1 3.1 **¶17198162**
IDC III 23 09 32 27.0–2.1 37.30N 140.06E 0 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=49.0km s-min=25.9km az=74.0.
ISC III 23 09 33 07.9–.91 36.85N–.03 140.51E–.05 10 3.7b 20 0-61
IDC III 23 09 33 02.6–3.4 35.37N 140.38E 0 3.7,3.6 **¶17198165**
JMA III 23 09 33 07.4 36.84N 140.54E 9–1 3.2,3.6
ISCJB III 23 09 33 07.4–.57 36.84N–.03 140.55E–.04 10 3.5b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 23 10 04 55.1–1.7 38.42N–.07 142.2E–.10 20–8 16 1-62
IDC III 23 10 04 51.1–12 38.49N 142.79E 0 3.6,3.5b **¶17198167**
ISCJB III 23 10 04 53.8–2.5 38.39N–.07 142.3E–.10 20–16 3.6,3.5b
JMA III 23 10 04 55.6–.10 38.42N 142.21E 31–2 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=251.7km s-min=59.3km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=9.4km az=24.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 10 21 32.0–.69 36.34N–.07 141.56E–.07 26 3.8b 18 1-90
NIED III 23 10 21 00 36.40N 141.60E 23 3.8W **¶602686984**
IDC III 23 10 21 27.5–.79 36.22N 141.67E 0 4.0,3.8
ISCJB III 23 10 21 30.2–.57 36.36N–.06 141.66E–.06 26 3.7b,3.8
JMA III 23 10 21 31.9–.20 36.38N 141.57E 51 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ44.00000°,λ-118.00000°. NP2:ϕ_s58.00000°,δ52.00000°,λ-65.00000°. $M_0$5.35000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=18.3km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=158.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 23 10 28 30.4–.10 38.77N 142.18E 30–2 3.8
NIED III 23 10 28 00 38.80N 142.20E 74 4.6W **¶603049981**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ36.00000°,λ3.00000°. NP2: ϕ_s323.00000°,δ88.00000°,λ126.00000°. $M_0$1.02000×10^{16}
ISC III 23 10 42 27.9–2.0 36.6N–.10 141.8E–.10 18 3.4b 11 1-47
IDC III 23 10 42 15.5–11 35.58N 142.70E 0 4.0L,3.5 **¶602443854**
JMA III 23 10 42 27.2–.40 36.57N 141.86E 58 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=251.9km s-min=92.9km az=169.0.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISC III 23 10 43 35.1–.41 36.75N–.03 141.55E–.03 31–2 4.9b,4.4s 774 1-155
NIED III 23 10 43 00 36.70N 141.50E 38 5.0W,4.4s **¶602443855**
BJI III 23 10 43 29.9 36.48N 141.74E 26 5.0b,4.9b
JMA III 23 10 43 35.3–.10 36.68N 141.45E 51–2 5.1,4.9b
NEIC III 23 10 43 36.2–.11 36.67N 141.46E 35 5.1b,4.9b
GCMT III 23 10 43 36.2–.30 36.79N 141.45E 20–1 5.1W,4.9b
ISCJB III 23 10 43 36.1–.41 36.69N–.02 141.44E–.02 49–3 4.9b,4.4s
MOS III 23 10 43 37.3–.75 37.01N 141.37E 48 5.0b,4.2s
IDC III 23 10 43 38.3–1.5 36.68N 141.46E 58–14 4.7,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ10.00000°,λ157.00000°. NP2:ϕ_s327.00000°,δ86.00000°,λ81.00000°. $M_0$3.48000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=147.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c38; s84,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.30±.13 $M_{\theta\theta}$0.95±.09; $M_{\phi\phi}$-0.65±.09; $M_{r\theta}$-2.87±.36; $M_{\theta\phi}$-0.37±.07; $M_{\phi r}$4.70±.59; Best double couple: NP1:ϕ_s148.00000°,δ89.00000° ,λ-81.00000°. NP2:ϕ_s245.00000°,δ9.00000°,λ-173.00000°. Principal axes: T 5.4960,Plg43.0000°,Azm229.0000°; N 0.1720,Plg9.0000°,Azm328.0000° ; P -5.6680,Plg45.0000°,Azm67.0000° $M_0$5.58200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=150.7.
MOS Error ellipse: s-maj=6.5km s-min=4.8km az=103.7.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=91.0.
JMA III 23 10 48 32.4–.20 37.55N 141.84E 17–3 3.5
¶602686898
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 10 59 50.1–3.7 37.30N–.05 141.90E–.07 14–24 3.8b 24 1-63
NIED III 23 10 59 00 37.30N 141.80E 32 3.8W **¶17198176**
IDC III 23 10 59 48.1–1.1 37.26N 141.94E 0 3.8,3.7
JMA III 23 10 59 52.7–.20 37.31N 141.79E 45–4 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ44.00000°,λ-101.00000°. NP2:ϕ_s293.00000°,δ47.00000°,λ-79.00000°. $M_0$6.37000×10^{14}
IDC Error ellipse: s-maj=28.5km s-min=19.8km az=119.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 23 11 17 38.8–2.0 37.77N–.05 141.80E–.08 2–13 3.5b 22 1-62
NIED III 23 11 17 00 37.70N 141.90E 8 3.5W **¶600563868**
ISCJB III 23 11 17 37.5–1.6 37.73N–.05 141.92E–.07 3–9 3.5b
IDC III 23 11 17 37.8–2.2 37.84N 142.02E 0 3.5,3.4L
JMA III 23 11 17 39.5–.10 37.72N 141.87E 19–2 3.7,3.4L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ50.00000°,λ-128.00000°. NP2:ϕ_s140.00000°,δ53.00000°,λ-54.00000°. $M_0$2.34000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.7km az=24.6.
IDC Error ellipse: s-maj=61.5km s-min=26.0km az=63.0.
ISC III 23 11 39 44.7–.89 35.16N–.06 141.35E–.09 27 3.6b 15 1-90
IDC III 23 11 39 40.9–.91 35.16N 141.48E 0 3.8,3.6 **¶17198183**
JMA III 23 11 39 41.7–.30 35.18N 141.64E 51–4 3.0,3.6
ISCJB III 23 11 39 43.0–.76 35.15N–.07 141.49E–.10 27 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
JMA III 23 11 41 35.0–.10 39.02N 142.27E 35–2 3.5
NIED III 23 11 41 00 39.00N 142.30E 5 3.6W **¶600563881**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ58.00000°,λ1.00000°. NP2:ϕ_s64.00000°,δ89.00000°,λ148.00000°. $M_0$3.11000×10^{14}
ISC III 23 11 52 03.9–2.2 36.55N–.09 141.9E–.20 19 3.5b 13 1-57
JMA III 23 11 52 02.6–.50 36.54N 141.94E 10 3.1 **¶17198184**
IDC III 23 11 52 04.8–2.4 36.99N 141.67E 0 3.6,3.6b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=61.6km s-min=28.8km az=64.0.
ISC III 23 12 05 03.6–1.1 36.26N–.08 141.41E–.08 26 3.5b 12 1-64
NIED III 23 12 05 00 36.00N 141.10E 5 3.9W **¶17198190**
IDC III 23 12 05 03.0–3.1 36.63N 141.51E 0 3.7,3.5
JMA III 23 12 05 07.4–.20 35.99N 141.14E 18–2 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ23.00000°,λ-45.00000°. NP2:ϕ_s155.00000°,δ74.00000°,λ-106.00000°. $M_0$8.78000×10^{14}
IDC Error ellipse: s-maj=64.8km s-min=29.1km az=168.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 23 12 14 34.2–.20 39.45N 142.64E 26–2 3.6
NIED III 23 12 14 00 39.50N 142.60E 50 3.7W **¶600563917**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ80.00000°,λ2.00000°. NP2:ϕ_s33.00000°,δ88.00000°,λ170.00000°. $M_0$4.60000×10^{14}
ISC III 23 12 19 01.5–.68 35.22N–.03 140.93E–.04 22–4 4.5b,4.1s 190 0-148
NIED III 23 12 19 00 35.20N 141.30E 17 4.6W,4.1s **¶602686731**
JMA III 23 12 19 00.2–.10 35.24N 141.22E 35–2 4.6,4.1s
MOS III 23 12 19 01.0–1.2 35.16N 141.10E 33 4.7b,4.1s
ISCJB III 23 12 19 01.9–.46 35.18N–.02 141.00E–.04 38–4 4.5b,4.1s
IDC III 23 12 19 02.5–4.8 35.20N 141.01E 31–36 4.6L,4.4
BJI III 23 12 19 02.1 35.13N 140.74E 35 5.0b,4.6b
NEIC III 23 12 19 03.1–.17 35.16N 140.97E 35 4.7b,4.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ31.00000°,λ-170.00000°. NP2:ϕ_s204.00000°,δ85.00000°,λ-60.00000°. $M_0$9.69000×10^{15}
JMA Event type fe.
MOS Error ellipse: s-maj=9.7km s-min=5.7km az=115.5.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=15.3.
IDC Error ellipse: s-maj=13.6km s-min=11.8km az=114.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=4.1km az=161.0. Recorded [1 JMA] in Chiba and Ibaraki.
ISC III 23 12 28 49.0–1.8 36.67N–.04 141.47E–.08 29–12 4.0b 42 1-147
NIED III 23 12 28 00 36.70N 141.40E 23 3.8W **¶16480442**
IDC III 23 12 28 44.2–.68 36.60N 141.48E 0 4.0,3.8
JMA III 23 12 28 49.6–.10 36.69N 141.43E 51–2 4.0,3.8
ISCJB III 23 12 28 49.2–.82 36.64N–.03 141.46E–.09 48–7 3.8b,3.8
NEIC III 23 12 28 52.5–1.1 36.63N 141.38E 62–11 4.1b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ28.00000°,λ-92.00000°. NP2:ϕ_s235.00000°,δ62.00000°,λ-89.00000°. $M_0$6.30000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=16.8km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.1km az=6.3.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=8.6km az=95.0.
ISC III 23 13 19 16.7–.83 36.42N–.05 141.05E–.06 32 3.7b 21 1-78
NIED III 23 13 19 00 36.40N 141.10E 26 3.6W **¶17198202**
IDC III 23 13 19 11.6–.90 36.32N 141.17E 0 3.8,3.6L
ISCJB III 23 13 19 15.0–.61 36.36N–.04 141.20E–.06 32 3.6b,3.6L
JMA III 23 13 19 16.5–.10 36.38N 141.09E 46–1 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ18.00000°,λ-125.00000°. NP2:ϕ_s178.00000°,δ76.00000°,λ-80.00000°. $M_0$2.81000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=20.7km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=6.4km az=5.3.
JMA Event type fe.
JMA III 23 13 21 40.0–.10 35.72N 140.91E 10–1 3.5
NIED III 23 13 21 00 35.70N 140.90E 8 3.6W **¶602687346**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ45.00000°,λ-84.00000°. NP2:ϕ_s186.00000°,δ45.00000°,λ-96.00000°. $M_0$2.43000×10^{14}
ISC III 23 13 47 23.4–1.2 36.71N–.05 141.38E–.10 21–5 3.5b 21 1-60
NIED III 23 13 47 00 36.70N 141.40E 20 3.6W **¶17198204**
ISCJB III 23 13 47 22.8–1.3 36.68N–.05 141.6E–.10 39–11 4.2s,3.5b

JMA III 23 13 47 24.2–.10 36.71N 141.44E 48–2 3.6,3.5b
IDC III 23 13 47 26.1–5.8 36.61N 141.58E 51–45 4.1s,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ12.00000°,λ8.00000°. NP2:ϕ_s42.00000°,δ88.00000°,λ102.00000°. $M_0$2.99000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.1km az=178.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=45.6km s-min=12.6km az=63.0.
JMA III 23 14 17 47.5–.20 37.32N 141.83E 29–3 3.9
¶602686612
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 14 31 47.5–2.3 37.75N–.08 141.7E–.10 6–16 3.4b 14 1-58
JMA III 23 14 31 48.2–.10 37.70N 141.70E 19–2 3.9 **¶17198206**
IDC III 23 14 31 50.8–2.6 38.02N 141.12E 0 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=62.2km s-min=31.2km az=74.0.
ISC III 23 14 48 10.9–.87 37.61N–.04 141.89E–.05 29–5 4.7b,3.6s 218 1-155
NIED III 23 14 48 00 37.60N 141.90E 11 4.4W,3.6s **¶17198209**
BJI III 23 14 48 04.7 37.18N 141.79E 10 4.9b,4.7b
IDC III 23 14 48 06.3–.51 37.54N 141.91E 0 4.6,4.5
NEIC III 23 14 48 07.7–.72 37.56N 141.95E 9–4 4.8b,4.5
ISCJB III 23 14 48 08.1–.85 37.60N–.03 141.96E–.04 22–5 4.6b,3.5s
JMA III 23 14 48 09.0–.20 37.58N 141.89E 18–3 4.6,3.5s
MOS III 23 14 48 10.5–1.2 37.75N 141.85E 33 4.8b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ38.00000°,λ-119.00000°. NP2:ϕ_s82.00000°,δ57.00000°,λ-69.00000°. $M_0$4.95000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=13.4km az=75.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=42.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=113.3.
JMA III 23 14 50 51.3–.20 35.74N 140.87E 7–1 3.6
¶602686373
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 15 03 37.0–1.1 35.26N–.06 141.84E–.10 22 3.5b 18 1-79
JMA III 23 15 03 33.9–.30 35.34N 142.13E 66–5 3.4 **¶17198211**
IDC III 23 15 03 33.2–1.8 35.17N 141.87E 0 3.6,3.6b
ISCJB III 23 15 03 34.6–.96 35.20N–.06 141.99E–.09 22 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 15 09 09.4–2.6 37.25N–.06 141.41E–.09 3–14 3.3b 19 1-61
NIED III 23 15 09 00 37.30N 141.20E 35 3.7W **¶17198212**
IDC III 23 15 09 08.0–2.7 37.31N 141.82E 0 4.0s,4.0
JMA III 23 15 09 14.7–.10 37.26N 141.23E 37–1 3.8,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ28.00000°,λ-87.00000°. NP2:ϕ_s217.00000°,δ62.00000°,λ-92.00000°. $M_0$4.47000×10^{14}
IDC Error ellipse: s-maj=68.0km s-min=29.1km az=54.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 15 14 09.1–1.6 36.38N–.05 141.6E–.10 26 13 1-56
IDC III 23 15 14 03.9–3.1 36.49N 141.98E 0 3.5,3.4 **¶17198213**
ISCJB III 23 15 14 07.7–1.3 36.37N–.05 141.69E–.10 26 3.1b,3.4
JMA III 23 15 14 11.1–.10 36.39N 141.45E 52–3 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=64.4km s-min=31.0km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.7km az=164.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 15 21 29.0–1.6 39.07N–.04 142.44E–.07 20–8 4.1b,3.3s 28 1-84
NIED III 23 15 21 00 39.10N 142.40E 38 3.9W,3.3s **¶16450725**
JMA III 23 15 21 30.2–.10 39.12N 142.44E 31–2 3.7,3.3s
NEIC III 23 15 21 31.7–.86 39.04N 142.52E 44–8 4.2b,3.3s
IDC III 23 15 21 33.0–4.0 39.06N 142.47E 54–38 3.9,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ35.00000°,λ-51.00000°. NP2:ϕ_s287.00000°,δ63.00000°,λ-114.00000°. $M_0$8.36000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=6.6km az=106.0.
IDC Error ellipse: s-maj=24.7km s-min=15.5km az=97.0.
ISC III 23 15 42 46.8–1.8 39.52N–.06 142.8E–.10 22–10 3.6b 21 1-63
IDC III 23 15 42 42.8–1.6 39.50N 143.05E 0 3.7,3.6 **¶17198217**
ISCJB III 23 15 42 44.0–1.8 39.46N–.06 142.97E–.09 19–10 3.5b,3.6
JMA III 23 15 42 44.5–.10 39.45N 142.90E 15–2 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=23.4km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=9.2km az=20.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 15 59 25.2–.93 35.29N–.06 141.05E–.09 33 3.5b 15 0-59
ISCJB III 23 15 59 23.9–.74 35.31N–.05 141.10E–.09 33 3.4b,3.4s **¶17198219**
JMA III 23 15 59 23.7–.20 35.34N 141.13E 26–3 2.8,3.4s
IDC III 23 15 59 28.9–4.3 35.29N 140.83E 58–39 3.5,3.5s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.6km az=6.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=34.3km s-min=22.1km az=94.0.
ISC III 23 16 07 49.8–.52 35.18N–.05 141.08E–.07 48 4.1b 57 1-148
NIED III 23 16 07 00 35.20N 141.20E 23 4.2W **¶16450728**
IDC III 23 16 07 43.6–.59 35.21N 141.16E 0 4.2,4.1
JMA III 23 16 07 46.7–.10 35.25N 141.21E 28–2 3.9,4.1
NEIC III 23 16 07 46.9–1.9 35.20N 141.18E 23–14 4.5b,4.1
ISCJB III 23 16 07 47.7–.38 35.13N–.04 141.11E–.06 48 4.2b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ45.00000°,λ161.00000°. NP2:ϕ_s35.00000°,δ77.00000°,λ46.00000°. $M_0$2.44000×10^{15}
NEIC Event type se.
ISCJB Event type se.
JMA III 23 16 10 28.2–.10 38.96N 142.40E 31–2 3.6
¶602686189
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 23 16 16 59.4–.10 36.46N 140.84E 28–1 3.0
¶602686952
JMA Event type fe.
ISC III 23 16 17 44.5–1.2 35.74N–.07 140.90E–.08 11–6 3.5b 15 0-56
NIED III 23 16 17 00 35.70N 140.90E 8 3.8W **¶17198220**
IDC III 23 16 17 42.9–1.5 35.63N 140.86E 0 3.6,3.4
ISCJB III 23 16 17 43.5–1.2 35.77N–.06 140.96E–.08 12–5 3.4b,3.4
JMA III 23 16 17 45.2–.10 35.73N 140.88E 8–1 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ33.00000°,λ-132.00000°. NP2:ϕ_s195.00000°,δ66.00000°,λ-67.00000°. $M_0$5.31000×10^{14}
IDC Error ellipse: s-maj=34.4km s-min=30.1km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.5km az=160.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 23 16 26 10.3–.20 38.27N 142.14E 42–4 3.6
¶602686945
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 23 16 34 17.5–1.4 35.25N–.05 141.22E–.10 10 14 1-59
ISCJB III 23 16 34 14.7–1.4 35.27N–.07 141.5E–.10 10 3.4b **¶17198223**
JMA III 23 16 34 18.5–.10 35.25N 141.18E 20–2 2.9
IDC III 23 16 34 19.9–3.9 34.61N 140.44E 0 3.4,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=6.9km az=154.4.
IDC Error ellipse: s-maj=135.8km s-min=31.4km az=65.0.
ISC III 23 16 54 24.0–.54 36.17N–.05 141.07E–.06 31 3.9b 43 0-83
IDC III 23 16 54 19.6–.66 36.14N 141.09E 0 3.9,3.8 **¶602686154**
ISCJB III 23 16 54 22.0–.39 36.14N–.04 141.14E–.05 31 3.8b,3.8
JMA III 23 16 54 22.9–.10 36.18N 141.05E 39–1 4.4,3.8
NEIC III 23 16 54 24.3–.35 36.06N 141.05E 35 4.3b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=14.6km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.4km az=12.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.5km az=96.0.
JMA III 23 16 54 35.9 36.87N 140.64E 4–1 4.2
¶16450731
ISC III 23 17 01 57.7–.97 36.78N–.03 140.54E–.05 11–7 3.7b 22 0-63
IDC III 23 17 01 55.4–1.7 36.84N 140.65E 0 3.9s,3.9 **¶16480475**
ISCJB III 23 17 01 56.8–.72 36.75N–.03 140.68E–.06 18–4 4.1s,3.8b
JMA III 23 17 01 57.8 36.78N 140.56E 8–1 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=22.4km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.3km az=14.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s154.00000°,δ52.00000°,λ-76.00000°. NP2:ϕ_s311.00000°,δ40.00000°,λ-108.00000°. Principal axes: T Plg6.0000°,Azm234.0000°; N Plg11.0000°,Azm325.0000°; P Plg77.0000°,Azm116.0000°
ISC III 23 17 31 17.0–2.1 37.26N–.06 141.80E–.08 16–11 3.7b 25 1-57
NIED III 23 17 31 00 37.30N 141.80E 44 3.7W **¶602686096**
ISCJB III 23 17 31 16.7–1.4 37.31N–.05 141.92E–.08 19–8 3.7b
IDC III 23 17 31 18.2–1.2 37.74N 141.64E 0 3.7,3.6b
JMA III 23 17 31 19.1–.20 37.29N 141.78E 41–3 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ24.00000°,λ-60.00000°. NP2:ϕ_s70.00000°,δ69.00000°,λ-103.00000°. $M_0$4.56000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.5km az=20.5.
IDC Error ellipse: s-maj=27.8km s-min=20.8km az=120.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 17 35 14.8–1.8 37.69N–.04 141.85E–.06 2–11 4.2b 57 1-146
NIED III 23 17 35 00 37.60N 141.90E 8 4.2W **¶16480482**
JMA III 23 17 35 15.4–.20 37.58N 141.93E 20–3 4.2
ISCJB III 23 17 35 15.6–1.1 37.60N–.04 141.94E–.06 20–7 4.2b
IDC III 23 17 35 15.1–.72 37.75N 141.86E 0 4.2,4.1
NEIC III 23 17 35 17.4–3.6 37.71N 141.77E 16–23 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ42.00000°,λ-119.00000°. NP2:ϕ_s79.00000°,δ54.00000°,λ-66.00000°. $M_0$2.20000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.0km az=28.8.
IDC Error ellipse: s-maj=18.0km s-min=15.1km az=149.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.5km az=135.0.
ISC III 23 17 41 23.3–1.3 35.89N–.07 141.11E–.10 31 3.6b 13 0-60
NIED III 23 17 41 00 35.90N 141.20E 8 3.5W **¶600564262**
IDC III 23 17 41 20.4–4.4 35.65N 140.96E 0 3.6,3.5
ISCJB III 23 17 41 21.6–1.1 35.85N–.06 141.2E–.10 31 3.5b,3.5
JMA III 23 17 41 22.0–.10 35.91N 141.21E 20–2 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ36.00000°,λ-6.00000°. NP2:ϕ_s331.00000°,δ86.00000°,λ-126.00000°. $M_0$1.99000×10^{14}
IDC Error ellipse: s-maj=133.1km s-min=25.8km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=8.7km az=168.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 23 17 42 56.5–.20 38.46N 142.27E 29–2 3.6
NIED III 23 17 42 00 38.50N 142.30E 44 4.2W **¶600564264**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ8.00000°,λ-145.00000°. NP2:ϕ_s331.00000°,δ85.00000°,λ-83.00000°. $M_0$1.96000×10^{15}
ISC III 23 17 48 44.6–3.1 39.05N–.06 142.4E–.10 26–20 3.4b 19 1-63
ISCJB III 23 17 48 42.8–1.7 39.01N–.05 142.5E–.10 21–10 3.4b **¶17198232**
JMA III 23 17 48 44.1–.20 39.03N 142.44E 32–2 3.5
IDC III 23 17 48 45.3–1.2 39.80N 140.79E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=6.5km az=21.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=43.0km s-min=20.6km az=99.0.
IDC III 23 18 01 52.2–3.2 34.48N 140.25E 0 3.8,3.6
¶17198233
IDC Error ellipse: s-maj=113.2km s-min=30.7km az=68.0.
ISC III 23 19 46 52.8–1.0 36.70N–.04 140.62E–.05 10–6 3.6b 23 0-60
NIED III 23 19 46 00 36.70N 140.70E 5 3.4W **¶16354012**
IDC III 23 19 46 51.0–1.3 36.70N 140.64E 0 3.7,3.5
ISCJB III 23 19 46 51.5–.87 36.65N–.04 140.73E–.06 13–4 3.5b,3.5
JMA III 23 19 46 53.0 36.70N 140.63E 6–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ37.00000°,λ-51.00000°. NP2:ϕ_s139.00000°,δ62.00000°,λ-115.00000°. $M_0$1.67000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=21.3km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.6km az=30.9.
JMA Event type fe.
ISC III 23 19 49 15.7–2.2 39.16N–.05 142.42E–.09 25–14 3.9b 37 1-73
NIED III 23 19 49 00 39.20N 142.40E 38 3.9W **¶17198237**
JMA III 23 19 49 16.5–.10 39.16N 142.36E 34–1 4.0
IDC III 23 19 49 19.3–2.8 39.03N 142.36E 61–25 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ17.00000°,λ-133.00000°. NP2:ϕ_s175.00000°,δ77.00000°,λ-78.00000°. $M_0$8.23000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=14.4km az=113.0.
ISC III 23 19 59 28.3–1.5 38.51N–.08 142.0E–.10 41 9 1-62
JMA III 23 19 59 24.7–.20 38.42N 142.21E 29–4 3.3 **¶602686509**
ISCJB III 23 19 59 26.5–1.1 38.47N–.06 142.10E–.10 41 3.7b
IDC III 23 19 59 35.5–9.1 36.47N 143.87E 0 3.9,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.5km az=14.6.
IDC Error ellipse: s-maj=200.4km s-min=46.3km az=32.0.
ISC III 23 20 28 44.4–1.7 35.96N–.04 141.25E–.07 13–10 4.0b 42 0-147
NIED III 23 20 28 00 35.90N 141.20E 11 4.0W **¶16480509**
ISCJB III 23 20 28 41.9–1.2 35.94N–.03 141.41E–.05 11–7 4.0b
IDC III 23 20 28 42.5–.69 35.92N 141.24E 0 4.1,4.0
JMA III 23 20 28 45.1–.10 35.94N 141.22E 26–2 4.2,4.0
NEIC III 23 20 28 47.2–.49 35.88N 141.15E 35 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ66.00000°,λ9.00000°. NP2:ϕ_s149.00000°,δ81.00000°,λ156.00000°. $M_0$1.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=176.9.
IDC Error ellipse: s-maj=21.3km s-min=14.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.5km az=77.0.
ISC III 23 20 31 04.7–3.2 36.6N–.10 141.1E–.10 30–15 3.2b 16 0-44
IDC III 23 20 30 50.3–6.4 35.50N 141.94E 0 3.6,3.6 **¶17198248**
JMA III 23 20 31 05.3–.10 36.61N 141.10E 45–1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=105.4km s-min=93.1km az=172.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 20 32 56.2–.33 36.24N–.03 140.95E–.04 32–2 5.0b,4.3s 527 0-147
NIED III 23 20 32 00 36.20N 140.90E 35 4.7W,4.3s **¶16352086**
IDC III 23 20 32 51.4–.42 36.21N 140.91E 0 4.8,4.7
MOS III 23 20 32 54.9–1.0 36.30N 140.93E 33 5.1b,4.7
BJI III 23 20 32 54.5 36.14N 141.06E 43 4.9b,4.8b
ISCJB III 23 20 32 56.5–.37 36.21N–.02 140.87E–.03 44–3 4.9b,4.5s
JMA III 23 20 32 56.1–.10 36.23N 140.94E 45–1 4.7,4.5s
GCMT III 23 20 32 58.2–.60 36.08N 141.26E 44–1 4.9W,4.5s
NEIC III 23 20 32 58.2–.34 36.21N 140.80E 46–3 5.0b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ19.00000°,λ61.00000°. NP2:ϕ_s28.00000°,δ74.00000°,λ100.00000°. $M_0$1.14000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=10.2km az=105.0.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=103.3.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.3km az=146.6.
JMA Event type fe.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c37; s49,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.58±.19 $M_{\theta\theta}$-0.64±.12; $M_{\phi\phi}$-1.94±.11;

$M_{r\theta}$0.62±.11; $M_{\theta\theta}$-0.57±.07; $M_{\theta r}$0.93±.08; Best double couple: NP1:ϕ_s26.00000°,δ57.00000°,λ95.00000°. NP2:ϕ_s197.00000°,δ33.00000°,λ83.00000°. Principal axes:
T 2.8340,Plg77.0000°,Azm310.0000°; N -0.4350,Plg4.0000°,Azm203.0000°
; P -2.3940,Plg12.0000°,Azm112.0000° $M_0$2.61400×10^{16}

NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=153.0. Recorded [4 JMA] in Ibaraki.

ISC	**III**	**23 20 38 53.1–2.2**	**40.28N–.05**	**142.40E–.09**	**8–13**	**3.6b**	**21**	**1-64**
ISCJB	III	23 20 38 52.7–1.8	40.29N–.05	142.5E–.10	18–11	3.5b		¶17198249
JMA	III	23 20 38 53.0–.20	40.26N	142.54E	29–2	3.7		
IDC	III	23 20 38 53.4–1.1	40.61N	142.32E	0	3.6,3.5		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=7.4km az=164.5.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=31.4km s-min=20.3km az=78.0.

ISC	**III**	**23 20 43 12.7–.42**	**35.91N–.03**	**141.33E–.04**	**20–1**	**5.0b,4.6s**	**409**	**0-147**
NIED	III	23 20 43 00	36.00N	141.40E	11	5.1W,4.6s		¶600564448
BJI	III	23 20 43 06.9	35.51N	141.82E	35	5.1b,5.0s		
IDC	III	23 20 43 09.3–.43	35.88N	141.25E	0	4.6,4.6		
JMA	III	23 20 43 10.7–.20	35.96N	141.26E	27–2	5.2,4.6		
ISCJB	III	23 20 43 10.9–.87	35.92N–.02	141.20E–.03	15–5	4.9b,4.6s		
MOS	III	23 20 43 12.9–1.1	35.91N	141.17E	33	5.0b,4.5s		
GCMT	III	23 20 43 13.3–.20	35.94N	141.22E	21–0	5.1W,4.5s		
NEIC	III	23 20 43 13.3–1.7	35.92N	141.15E	21–11	5.1b,4.5s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ75.00000°,λ10.00000°. NP2:ϕ_s147.00000°,δ80.00000°,λ164.00000°. $M_0$4.61000×10^{16}

IDC Error ellipse: s-maj=11.4km s-min=10.4km az=143.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=146.3.

MOS Error ellipse: s-maj=7.9km s-min=5.3km az=112.7.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c79; s103,c177; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.10±.14 $M_{\theta\theta}$-4.06±.11; $M_{\phi\phi}$5.15±.13; $M_{r\theta}$0.77±.20; $M_{\theta\phi}$3.47±.10; $M_{\phi r}$-1.94±.21; Best double couple: NP1:ϕ_s335.00000°,δ86.00000°,λ-159.00000°. NP2:ϕ_s243.00000°,δ69.00000°,λ-4.00000°. Principal axes:
T 6.6470,Plg12.0000°,Azm107.0000°; N -1.0200,Plg69.0000°,Azm344.0000°
; P -5.6370,Plg17.0000°,Azm201.0000° $M_0$6.14200×10^{16}

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=134.0. Recorded [3 JMA] in Chiba and Ibaraki.

ISC	**III**	**23 20 48 51.4–.62**	**39.71N–.06**	**142.66E–.07**	**29**	**3.9b**	**43**	**1-88**
NIED	III	23 20 48 00	39.70N	142.70E	44	4.3W		¶16462132
ISCJB	III	23 20 48 49.3–.47	39.66N–.05	142.80E–.06	29	3.9b		
JMA	III	23 20 48 50.8–.30	39.65N	142.71E	31–3	4.1		
IDC	III	23 20 48 55.3–2.7	39.63N	142.63E	67–24	3.9,3.8		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ9.00000°,λ119.00000°. NP2:ϕ_s13.00000°,δ82.00000°,λ85.00000°. $M_0$3.04000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.1km az=149.9.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

IDC Error ellipse: s-maj=18.4km s-min=14.9km az=128.0.

ISC	**III**	**23 20 54 05.3–1.6**	**36.04N–.08**	**141.9E–.10**	**23**	**3.7b**	**12**	**1-60**
IDC	III	23 20 54 01.4–2.5	36.06N	142.14E	0	3.8,3.7b		¶600564458
ISCJB	III	23 20 54 03.2–1.0	36.07N–.08	142.05E–.09	23	3.6s,3.6b		
JMA	III	23 20 54 05.3–.40	36.13N	141.92E	37	3.4,3.6b		

ISC Event type ke.

IDC Error ellipse: s-maj=79.9km s-min=21.9km az=61.0.

ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.3km az=6.9.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**23 20 58 18.5–.39**	**38.27N–.04**	**142.32E–.04**	**24**	**4.5b**	**142**	**1-145**
NIED	III	23 20 58 00	38.30N	142.30E	32	4.3W		¶16352088
ISCJB	III	23 20 58 16.7–.27	38.29N–.03	142.43E–.03	24	4.4b,4.1s		
MOS	III	23 20 58 19.0–1.1	38.41N	142.30E	36	4.7b,4.1s		
JMA	III	23 20 58 20.0–.20	38.34N	142.26E	39–2	4.3,4.1s		
NEIC	III	23 20 58 20.8–.65	38.30N	142.28E	41–6	4.6b,4.1s		
IDC	III	23 20 58 21.5–1.6	38.27N	142.24E	47–15	4.3,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ37.00000°,λ-106.00000°. NP2:ϕ_s57.00000°,δ54.00000°,λ-78.00000°. $M_0$2.96000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=154.6.

MOS Error ellipse: s-maj=8.3km s-min=5.4km az=89.1.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=123.0.

IDC Error ellipse: s-maj=12.5km s-min=10.5km az=122.0.

ISC	**III**	**23 21 11 32.3–1.0**	**36.72N–.06**	**140.61E–.05**	**10–7**	**3.5b**	**24**	**0-78**
IDC	III	23 21 11 30.8–.85	36.73N	140.63E	0	3.7,3.5		¶600564467
ISCJB	III	23 21 11 31.6–.76	36.66N–.04	140.71E–.06	17–5	3.4b,3.4s		
JMA	III	23 21 11 33.0	36.71N	140.59E	8–1	3.5,3.4s		

ISC Event type ke.

IDC Error ellipse: s-maj=21.5km s-min=18.0km az=137.0.

ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.5km az=20.9.

JMA Event type fe.

ISC	**III**	**23 21 28 15.9–1.7**	**36.54N–.05**	**141.85E–.05**	**4–9**	**4.3b,4.0s**	**97**	**1-147**
NIED	III	23 21 28 00	36.60N	141.70E	29	4.0W,4.0s		¶16357302
BJI	III	23 21 28 13.4	36.31N	142.50E	34	4.9b,4.6b		
IDC	III	23 21 28 15.1–.59	36.55N	141.75E	0	4.2,4.2		
JMA	III	23 21 28 19.8–.20	36.56N	141.75E	53–5	4.2,4.2		
NEIC	III	23 21 28 21.9–.85	36.59N	141.79E	49–7	4.7b,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ35.00000°,λ-102.00000°. NP2:ϕ_s43.00000°,δ55.00000°,λ-82.00000°. $M_0$1.15000×10^{15}

IDC Error ellipse: s-maj=16.9km s-min=13.7km az=118.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=136.0.

ISC	**III**	**23 21 44 32.1–2.3**	**39.53N–.06**	**142.59E–.09**	**3–12**	**3.6b**	**23**	**1-60**
NIED	III	23 21 44 00	39.50N	142.60E	29	3.6W		¶17198252
IDC	III	23 21 44 30.5–2.7	39.73N	142.84E	0	3.7,3.6		
ISCJB	III	23 21 44 32.3–1.6	39.52N–.06	142.69E–.09	19–9	3.4b,3.6		
JMA	III	23 21 44 33.3–.10	39.49N	142.63E	25–1	3.6,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ31.00000°,λ-126.00000°. NP2:ϕ_s176.00000°,δ65.00000°,λ-71.00000°. $M_0$3.25000×10^{14}

IDC Error ellipse: s-maj=69.4km s-min=26.0km az=71.0.

ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=9.5km az=171.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**23 21 52 15.1–2.1**	**36.8N–.10**	**142.0E–.10**	**19**	**3.4b**	**13**	**1-57**
JMA	III	23 21 52 17.4–.20	36.67N	141.81E	47–4	3.3		¶17198253
IDC	III	23 21 52 17.2–2.5	37.42N	141.58E	0	3.5,3.5b		

ISC Event type ke.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=60.8km s-min=30.5km az=64.0.

JMA	**III**	**23 22 29 35.7–.20**	**36.23N**	**141.65E**	**48–4**	**3.5**		
NIED	III	23 22 29 00	36.20N	141.70E	23	3.6W		¶600564575

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ23.00000°,λ61.00000°. NP2:ϕ_s128.00000°,δ70.00000°,λ102.00000°. $M_0$2.49000×10^{14}

ISC	**III**	**23 23 26 57.7–2.3**	**37.27N–.06**	**141.92E–.08**	**16–12**	**3.5b**	**17**	**1-57**
IDC	III	23 23 26 55.1–1.4	37.26N	142.02E	0	3.6,3.5b		¶602685404
JMA	III	23 23 27 00.4–.20	37.29N	141.85E	37–4	3.5,3.5b		
NIED	III	23 23 27 00	37.30N	141.90E	62	4.1W,3.5b		

ISC Event type ke.

IDC Error ellipse: s-maj=30.8km s-min=28.2km az=87.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ74.00000°,λ170.00000°. NP2:ϕ_s37.00000°,δ80.00000°,λ16.00000°. $M_0$1.34000×10^{15}

ISC	**III**	**23 23 35 00.1–2.2**	**38.34N–.06**	**142.32E–.07**	**8–12**	**3.6b**	**26**	**1-89**
IDC	III	23 23 34 58.5–.89	38.23N	142.45E	0	3.7,3.6		¶600564639
JMA	III	23 23 35 01.3–.20	38.33N	142.28E	20–2	4.0,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=24.9km s-min=20.3km az=101.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**23 23 55 28.4–.30**	**35.68N**	**140.91E**	**13–1**	**2.9**		

¶602443861

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**23 23 56 49.6–.36**	**36.16N–.03**	**140.10E–.04**	**58–3**	**4.9b,3.9s**	**478**	**0-149**
NIED	III	23 23 56 00	36.20N	140.10E	53	4.8W,3.9s		¶602443863
IDC	III	23 23 56 41.9–.39	36.21N	139.95E	0	5.6L,4.9		
BJI	III	23 23 56 43.3	36.08N	140.59E	59	5.0b,4.8b		
ISCJB	III	23 23 56 49.4–.30	36.14N–.02	139.89E–.03	66–2	4.8b,4.8b		
MOS	III	23 23 56 49.0–.95	36.30N	139.93E	60	5.1b,4.8b		
JMA	III	23 23 56 49.4–.10	36.18N	140.04E	52–1	4.8,4.8b		
NEIC	III	23 23 56 51.3–.40	36.17N	139.88E	70–3	4.9b,4.8b		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ22.00000°,λ110.00000°. NP2:ϕ_s55.00000°,δ69.00000°,λ82.00000°. $M_0$1.59000×10^{16}

IDC Error ellipse: s-maj=12.3km s-min=9.8km az=97.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.4km az=137.9.

MOS Error ellipse: s-maj=6.8km s-min=4.1km az=114.7.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s58.00000°,δ73.00000°,λ84.00000°. NP2:ϕ_s258.00000°,δ18.00000°,λ109.00000°. Principal axes: T Plg61.0000°,Azm320.0000°
; N Plg6.0000°,Azm60.0000°; P Plg28.0000°,Azm153.0000°

NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=155.0. Felt [III] at Tokyo. Also felt at Fujisawa, Narita, Oyama, Sagamihara, Tsukuba and Yashio. Recorded [5L JMA] in Ibaraki.

JMA	**III**	**24 00 18 02.9–.20**	**38.10N**	**142.30E**	**36–4**	**3.7**		
NIED	III	24 00 18 00	38.10N	142.30E	65	4.4W		¶600564689

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ13.00000°,λ-58.00000°. NP2:ϕ_s158.00000°,δ79.00000°,λ-97.00000°. $M_0$3.99000×10^{15}

ISC	**III**	**24 00 26 33.3–1.1**	**36.20N–.05**	**141.08E–.08**	**30–5**	**3.4b**	**22**	**1-56**
ISCJB	III	24 00 26 31.9–1.3	36.19N–.05	141.2E–.10	35–10	3.4b		¶17198265
JMA	III	24 00 26 32.0–.10	36.18N	141.15E	44–1	3.2		
IDC	III	24 00 26 37.8–2.1	36.49N	140.90E	47–8	3.4,3.3		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=8.4km az=173.1.

IDC Error ellipse: s-maj=53.1km s-min=26.5km az=68.0.

JMA	**III**	**24 00 26 43.0–.20**	**38.02N**	**142.64E**	**7–3**	**4.1**		

¶602690913

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**24 00 35 18.6–.74**	**39.53N–.05**	**142.74E–.04**	**14–3**	**4.5b,3.8s**	**116**	**1-145**
NIED	III	24 00 35 00	39.50N	142.70E	11	4.3W,3.8s		¶16357304
JMA	III	24 00 35 18.0–.20	39.47N	142.73E	24–2	4.2,3.8s		
ISCJB	III	24 00 35 18.1–.89	39.47N–.04	142.73E–.04	23–6	4.4b,3.6s		
NEIC	III	24 00 35 21.6–.26	39.48N	142.63E	35	4.6b,3.6s		
IDC	III	24 00 35 23.5–2.6	39.42N	142.67E	57–24	4.2,4.1		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ30.00000°,λ-103.00000°. NP2:ϕ_s107.00000°,δ61.00000°,λ-82.00000°. $M_0$2.71000×10^{15}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.3km az=147.0.

NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=150.0.

IDC Error ellipse: s-maj=16.2km s-min=12.4km az=145.0.

ISC	**III**	**24 01 11 16.8–.78**	**38.36N–.06**	**142.18E–.08**	**37–2**	**4.0b**	**41**	**1-145**
NIED	III	24 01 11 00	38.30N	142.20E	32	3.9W		¶602690818
IDC	III	24 01 11 10.9–.74	38.27N	142.28E	0	4.0,3.9		
JMA	III	24 01 11 14.8–.20	38.33N	142.25E	33–3	4.1,3.9		
ISCJB	III	24 01 11 14.1–1.5	38.30N–.04	142.29E–.06	33–9	4.0b,3.9s		
NEIC	III	24 01 11 16.1–2.9	38.31N	142.30E	35–21	4.6b,3.9s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ48.00000°,λ-54.00000°. NP2:ϕ_s59.00000°,δ53.00000°,λ-123.00000°. $M_0$8.32000×10^{14}

IDC Error ellipse: s-maj=18.1km s-min=17.7km az=130.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.2km az=38.7.

NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.6km az=124.0.

ISC	**III**	**24 01 35 18.2–1.0**	**36.22N–.05**	**140.92E–.08**	**32**	**3.3b**	**15**	**0-50**
NIED	III	24 01 35 00	36.20N	140.90E	47	3.8W		¶17198267
IDC	III	24 01 35 10.8–4.7	35.86N	141.08E	0	3.6,3.6L		
ISCJB	III	24 01 35 16.7–.88	36.25N–.05	140.99E–.08	32	3.3b,3.6L		
JMA	III	24 01 35 17.7–.10	36.23N	140.89E	45–1	3.5,3.6L		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ12.00000°,λ96.00000°. NP2:ϕ_s21.00000°,δ78.00000°,λ89.00000°. $M_0$4.93000×10^{14}

IDC Error ellipse: s-maj=103.3km s-min=32.7km az=171.0.

ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.8km az=162.9.

JMA Event type fe.

ISC	**III**	**24 02 13 21.8–2.1**	**35.90N–.04**	**141.74E–.06**	**24–14**	**4.1b**	**48**	**1-147**
IDC	III	24 02 13 17.9–.62	35.80N	141.77E	0	4.2,4.1b		¶16452776
ISCJB	III	24 02 13 21.7–.91	35.88N–.04	141.70E–.07	38–9	4.0b,3.1s		
JMA	III	24 02 13 21.0–.20	35.94N	141.74E	49–4	4.0,3.1s		
NEIC	III	24 02 13 23.3–.55	35.90N	141.74E	35	4.1b,3.1s		

ISC Event type se.

IDC Error ellipse: s-maj=16.9km s-min=14.7km az=122.0.

ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.1km az=175.4.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.5km az=172.0.

ISC	**III**	**24 02 33 14.2–.88**	**35.76N–.04**	**140.74E–.06**	**44–8**	**4.0b,3.3s**	**40**	**0-81**
NIED	III	24 02 33 00	35.70N	140.70E	50	4.1W,3.3s		¶16452777
ISCJB	III	24 02 33 13.9–.47	35.76N–.04	140.64E–.08	57–4	4.0b,3.0s		
JMA	III	24 02 33 14.2–.10	35.74N	140.66E	47–1	3.6,3.0s		
NEIC	III	24 02 33 14.9–.82	35.63N	140.61E	53–7	4.4b,3.0s		
IDC	III	24 02 33 16.0–3.0	35.72N	140.55E	58–26	3.9,3.8L		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ24.00000°,λ88.00000°. NP2:ϕ_s2.00000°,δ66.00000°,λ91.00000°. $M_0$1.71000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.8km az=174.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s13.00000°,δ86.00000°,λ93.00000°. NP2:ϕ_s152.00000°,δ5.00000°,λ49.00000°. Principal axes: T Plg49.0000°,Azm287.0000°
; N Plg3.0000°,Azm193.0000°; P Plg41.0000°,Azm100.0000°

NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.1km az=75.0.

IDC Error ellipse: s-maj=18.7km s-min=16.3km az=95.0.

JMA	**III**	**24 02 37 43.5–.10**	**37.93N**	**141.53E**	**61–1**	**3.6**		

¶602691029

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**24 02 53 19.1–.85**	**38.3N–.10**	**142.8E–.10**	**10**	**4.0b**	**23**	**4-74**
ISCJB	III	24 02 53 16.8–.61	38.16N–.09	142.9E–.10	10	4.0b,3.2s		¶16452779
IDC	III	24 02 53 17.5–.75	38.22N	142.91E	0	4.8L,4.1		
NEIC	III	24 02 53 22.6–.49	38.18N	142.80E	35	4.2b,4.1		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=10.4km az=136.8.

IDC Error ellipse: s-maj=20.3km s-min=16.6km az=109.0.

NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.6km az=135.0.

ISC	**III**	**24 03 24 30.1–1.0**	**36.79N–.03**	**140.48E–.05**	**9–7**	**3.8b**	**23**	**0-91**
IDC	III	24 03 24 29.1–.81	36.85N	140.54E	0	4.0,3.7		¶600564833
JMA	III	24 03 24 30.7	36.78N	140.56E	7–1	3.7,3.7		
ISCJB	III	24 03 24 30.1–.64	36.76N–.03	140.67E–.06	17–4	3.7b,3.7		

ISC Event type ke.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s325.00000°,δ54.00000°,λ-109.00000°. NP2:ϕ_s176.00000°,δ40.00000°,λ-66.00000°. Principal axes: T Plg7.0000°,Azm69.0000°; N Plg15.0000°,Azm337.0000°; P Plg73.0000°
,Azm182.0000°

ISCJB Event type fe.

ISC	**III**	**24 03 58 07.4–.39**	**38.57N–.03**	**142.92E–.03**	**27–2**	**5.3b,4.8s**	**1247**	**1-160**
NIED	III	24 03 58 00	38.60N	142.90E	23	5.1W,4.8s		¶16352101
IDC	III	24 03 58 03.3–.35	38.57N	142.95E	0	5.0,5.0		
ISCJB	III	24 03 58 05.9–.68	38.61N–.02	142.90E–.02	24–4	5.2b,4.8s		
BJI	III	24 03 58 06.8	38.72N	142.97E	38	5.1b,5.0b		
JMA	III	24 03 58 07.4–.20	38.60N	142.93E	38–5	5.2,5.0b		
MOS	III	24 03 58 07.5–1.0	38.69N	142.84E	37	5.4b,4.7s		
GCMT	III	24 03 58 09.6–.20	38.63N	142.91E	27–0	5.1W,4.7s		
NEIC	III	24 03 58 09.6–.45	38.61N	142.81E	42–4	5.3b,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ38.00000°,λ43.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ120.00000°. M_o4.52000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=9.5km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=167.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=99.6.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c89; s102,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.63±.15 $M_{\theta\theta}$-3.27±.10; $M_{\phi\phi}$-0.36±.10; $M_{r\theta}$-0.03±.17; $M_{\theta\phi}$2.25±.07; $M_{\phi r}$-3.64±.21; Best double couple: NP1:ϕ_s150.00000°,δ65.00000°,λ123.00000°. NP2:ϕ_s273.00000°,δ40.00000°,λ41.00000°. Principal axes: T 5.9420,Plg57.0000°,Azm104.0000°; N -1.0130,Plg29.0000°,Azm315.0000°; P -4.9290,Plg14.0000°,Azm217.0000° M_o5.43500×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=140.0.

JMA	**III**	**24 04 11 19.6–.20**	**37.37N**	**141.63E**	**32–2**	**3.7**		**¶602690173**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**24 04 28 57.8–.10**	**37.44N**	**141.32E**	**25–1**	**2.9**		**¶603049983**
ISC	**III**	**24 04 56 07.4–.53**	**38.72N–.05**	**142.41E–.04**	**32–3**	**4.8b,4.1s**	**275**	**1-145**
NIED	III	24 04 56 00	38.70N	142.30E	41	4.5W,4.1s		**¶16352105**
BJI	III	24 04 56 07.3	38.72N	142.29E	46	4.9b,4.7b		
MOS	III	24 04 56 07.7–.86	38.86N	142.30E	37	4.9b,4.7b		
ISCJB	III	24 04 56 07.7–.57	38.79N–.04	142.36E–.05	40–4	4.7b,4.0s		
JMA	III	24 04 56 08.3–.10	38.74N	142.32E	38–2	4.5,4.0s		
IDC	III	24 04 56 10.0–.62	38.67N	142.29E	51–5	4.6,4.4		
NEIC	III	24 04 56 09.7–.74	38.75N	142.30E	49–6	4.8b,4.4		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ18.00000°,λ77.00000°. NP2:ϕ_s28.00000°,δ73.00000°,λ94.00000°. M_o6.89000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=103.5.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=137.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=144.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=144.0.

ISC	**III**	**24 04 58 45.8–2.0**	**37.0N–.20**	**141.9E–.20**	**19**	**4.1b**	**7**	**3-57**
IDC	III	24 04 58 42.4–2.4	37.03N	142.07E	0	4.1,4.0		**¶17198289**
ISCJB	III	24 04 58 43.4–1.7	37.0N–.20	142.0E–.20	19	4.0b,4.0		

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**24 05 03 17.6–3.2**	**35.79N**	**140.41E**	**0**	**3.8,3.6b**		**¶603049950**

IDC Error ellipse: s-maj=99.2km s-min=30.0km az=58.0.

ISC	**III**	**24 05 03 38.7–.90**	**36.73N–.03**	**140.49E–.04**	**10–5**	**4.6b**	**140**	**0-156**
NIED	III	24 05 03 00	36.70N	140.60E	5	4.2W		**¶17198291**
ISCJB	III	24 05 03 37.8–.54	36.74N–.03	140.45E–.04	11–3	4.5b		
JMA	III	24 05 03 38.8	36.72N	140.60E	6–1	4.5		
BJI	III	24 05 03 38.2	36.84N	140.73E	30	5.0b,5.0s		
IDC	III	24 05 03 43.1–2.1	36.71N	140.45E	40–18	4.3,4.2		
NEIC	III	24 05 03 43.4–.99	36.81N	140.40E	38–8	4.6b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_s175.00000°,δ56.00000°,λ-88.00000°. M_o2.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.3km az=29.6.
JMA Event type fe.
IDC Error ellipse: s-maj=12.6km s-min=11.4km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=5.3km az=164.0. Recorded [3 JMA] in Ibaraki.

ISC	**III**	**24 05 13 24.8–.67**	**36.19N–.05**	**141.71E–.07**	**26**	**3.7b**	**30**	**1-147**
NIED	III	24 05 13 00	36.30N	141.80E	23	3.9W		**¶17198293**
IDC	III	24 05 13 21.1–.80	36.29N	141.72E	0	3.9,3.7		
ISCJB	III	24 05 13 23.0–.53	36.20N–.04	141.75E–.05	26	4.4s,3.7b		
JMA	III	24 05 13 22.7–.20	36.26N	141.80E	39	3.8,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ28.00000°,λ170.00000°. NP2:ϕ_s339.00000°,δ85.00000°,λ63.00000°. M_o7.57000×10^{14}
IDC Error ellipse: s-maj=21.3km s-min=18.5km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.3km az=19.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**24 05 34 34.4–.92**	**38.78N–.06**	**142.00E–.09**	**51**	**3.6b**	**20**	**1-67**
NIED	III	24 05 34 00	38.80N	142.10E	41	3.8W		**¶602689997**
ISCJB	III	24 05 34 33.0–.72	38.80N–.06	142.11E–.08	51	3.5b		
JMA	III	24 05 34 33.8–.10	38.82N	142.08E	44–1	3.5		
IDC	III	24 05 34 37.8–3.3	38.76N	142.00E	81–31	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ14.00000°,λ43.00000°. NP2:ϕ_s15.00000°,δ81.00000°,λ100.00000°. M_o5.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=7.4km az=40.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=21.6km az=112.0.

ISC	**III**	**24 06 00 19.9–1.8**	**35.75N–.04**	**141.78E–.06**	**23–13**	**4.2s,4.1b**	**64**	**1-147**
NIED	III	24 06 00 00	35.80N	141.80E	23	4.0W,4.1b		**¶16480562**
IDC	III	24 06 00 16.4–.53	35.71N	141.76E	0	4.3,4.1		
ISCJB	III	24 06 00 20.0–.76	35.75N–.03	141.75E–.06	36–7	4.1b,4.0s		
JMA	III	24 06 00 19.7–.10	35.81N	141.78E	50–3	3.8,4.0s		
NEIC	III	24 06 00 21.4–.33	35.71N	141.76E	35	4.3b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ23.00000°,λ-96.00000°. NP2:ϕ_s122.00000°,δ67.00000°,λ-87.00000°. M_o1.19000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.8km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.0km az=179.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.6km az=102.0.

ISC	**III**	**24 06 13 37.6–3.1**	**37.28N–.07**	**141.5E–.20**	**43–20**	**3.5b**	**14**	**1-57**
JMA	III	24 06 13 40.3–.10	37.30N	141.25E	51–1	3.6		**¶17198297**
IDC	III	24 06 13 58.3–2.1	37.62N	138.86E	90–20	3.4,3.2		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=31.9km s-min=23.3km az=67.0.

ISC	**III**	**24 07 03 53.3–.39**	**36.21N–.04**	**141.75E–.04**	**21–3**	**5.0b,4.4s**	**337**	**1-147**
NIED	III	24 07 03 00	36.20N	141.80E	23	4.7W,4.4s		**¶16352113**
IDC	III	24 07 03 49.8–.47	36.18N	141.83E	0	4.6,4.6		
JMA	III	24 07 03 52.3–.20	36.21N	141.80E	74–3	4.9,4.6		
BJI	III	24 07 03 53.5	36.21N	141.57E	31	5.1b,5.0b		
ISCJB	III	24 07 03 53.3–.80	36.20N–.03	141.74E–.03	31–5	4.8b,4.3s		
NEIC	III	24 07 03 56.0–.75	36.15N	141.69E	38–6	5.0b,4.3s		
MOS	III	24 07 03 56.5–1.1	36.66N	141.59E	36	5.2b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ24.00000°,λ86.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ92.00000°. M_o1.46000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=10.8km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=141.4.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.8km az=122.0.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=108.2.

JMA	**III**	**24 07 07 24.7–.10**	**38.24N**	**141.68E**	**52–1**	**3.5**		**¶602690650**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**24 07 33 38.7**	**36.93N**	**140.61E**	**18**	**1.6**		**¶602690613**
ISC	**III**	**24 07 34 49.5–2.1**	**36.89N–.07**	**141.43E–.07**	**10–13**	**3.6b**	**18**	**1-75**
NIED	III	24 07 34 00	36.80N	141.50E	5	3.6W		**¶600564952**
IDC	III	24 07 34 47.8–1.1	36.72N	141.52E	0	3.8,3.5		
ISCJB	III	24 07 34 47.7–2.4	36.82N–.05	141.60E–.06	11–15	3.5b,3.5		
JMA	III	24 07 34 48.9–.10	36.77N	141.54E	46–2	3.8,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ41.00000°,λ-70.00000°. NP2:ϕ_s185.00000°,δ52.00000°,λ-107.00000°. M_o2.87000×10^{14}
IDC Error ellipse: s-maj=30.2km s-min=24.3km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.7km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**24 07 42 29.9–.20**	**38.27N**	**142.13E**	**42–3**	**3.5**		**¶602690608**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**24 07 47 04.2–2.0**	**37.24N–.09**	**141.4E–.20**	**79**	**3.5b**	**11**	**0-44**
IDC	III	24 07 47 02.3–2.7	37.91N	141.12E	0	3.7b,3.6		**¶602690592**
JMA	III	24 07 47 04.2–.10	37.30N	141.33E	48–1	3.2,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=21.7km az=122.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**24 08 11 14.8–1.3**	**35.67N–.04**	**140.17E–.05**	**64–12**	**3.6b**	**24**	**0-59**
JMA	III	24 08 11 13.6–.20	35.74N	140.20E	66–2	2.3		**¶17198306**
ISCJB	III	24 08 11 15.3–.73	35.67N–.03	140.11E–.05	45–19	3.5b		
IDC	III	24 08 11 19.0–3.4	35.72N	139.64E	0	3.7,3.5		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.6km az=150.6.
IDC Error ellipse: s-maj=120.8km s-min=22.6km az=63.0.

ISC	**III**	**24 08 16 46.7–1.8**	**36.22N–.04**	**140.97E–.06**	**24–13**	**3.8b**	**31**	**1-91**
NIED	III	24 08 16 00	36.20N	140.90E	47	4.0W		**¶17198307**
JMA	III	24 08 16 48.6–.10	36.23N	140.93E	47–1	3.7		
IDC	III	24 08 16 51.2–2.0	36.09N	140.93E	66–19	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ17.00000°,λ106.00000°. NP2:ϕ_s31.00000°,δ74.00000°,λ85.00000°. M_o9.48000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=18.5km s-min=10.2km az=66.0.

ISC	**III**	**24 08 20 59.6–.31**	**39.11N–.02**	**142.29E–.03**	**27–1**	**5.8s,5.6b**	**1787**	**1-159**
NIED	III	24 08 20 00	39.10N	142.40E	35	5.9W,5.6b		**¶602442647**
JMA	III	24 08 20 58.6–.10	39.08N	142.36E	34–1	6.2,5.6b		
ISCJB	III	24 08 20 59.1–.42	39.09N–.02	142.15E–.02	32–2	5.8s,5.5b		
MOS	III	24 08 20 59.8–.81	39.26N	142.13E	35	5.9b,5.8s		
GCMT	III	24 08 21 00.1–.10	39.08N	142.34E	37–0	5.9W,5.8s		
NEIC	III	24 08 21 00.1–.08	39.08N	142.08E	27	5.8W,5.8W		
BJI	III	24 08 21 00.0	39.20N	142.16E	30	6.1s,6.0		
IDC	III	24 08 21 01.9–1.6	39.08N	142.21E	45–14	5.7,5.7s		
NEIC	III	24 08 21 01.0–.00	39.12N	142.35E	40	5.7,5.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ22.00000°,λ52.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ104.00000°. M_o8.42000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=158.9.
MOS Error ellipse: s-maj=6.7km s-min=4.1km az=103.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c255; s133,c388;Duration: 2s^2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.58±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$-0.64±.01; $M_{r\theta}$0.31±.01; $M_{\theta\phi}$-0.06±.01; $M_{\phi r}$0.69±.01; Best double couple: NP1:ϕ_s20.00000°,δ71.00000°,λ101.00000°. NP2:ϕ_s169.00000°,δ22.00000°,λ61.00000°. Principal axes: T 0.9620,Plg62.0000°,Azm307.0000°; N 0.0240,Plg10.0000°,Azm196.0000°; P -0.9860,Plg25.0000°,Azm101.0000° M_o0.97400×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=142.0. Felt at Misawa and Tokyo. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s89 Moment tensor: Scale 10^{17}Nm; M_{rr}2.61 $M_{\theta\theta}$1.27 $M_{\phi\phi}$-3.88 $M_{r\theta}$2.61 $M_{\theta\phi}$-0.29 $M_{\phi r}$4.36 Best double couple: NP1:ϕ_s154.00000°,δ23.00000°,λ38.00000°. NP2:ϕ_s28.00000°,δ76.00000°,λ109.00000°. Principal axes: T 5.8900,Plg55.0000°,Azm321.0000°; N 0.4700,Plg18.0000°,Azm203.0000°; P -6.3600,Plg28.0000°,Azm103.0000° M_o6.10000×10^{17}
IDC Error ellipse: s-maj=11.3km s-min=10.1km az=104.0.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}3.84 $M_{\theta\theta}$-0.07 $M_{\phi\phi}$-3.77 $M_{r\theta}$0.73 $M_{\theta\phi}$-0.74 $M_{\phi r}$6.20 Best double couple: NP1:ϕ_s7.00000°,δ74.00000°,λ88.00000°. NP2:ϕ_s195.00000°,δ16.00000°,λ97.00000°. Principal axes: T 7.3200,Plg60.0000°,Azm274.0000°; N 0.0500,Plg1.0000°,Azm7.0000°; P -7.3700,Plg29.0000°,Azm98.0000° M_o7.30000×10^{17}

JMA	**III**	**24 08 30 51.1–.10**	**38.98N**	**142.27E**	**34–2**	**3.5**		**¶602690525**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**24 08 33 12.2–.20**	**39.04N**	**142.28E**	**29–2**	**3.5**		**¶602690522**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**24 08 38 46.6–.10**	**39.07N**	**142.29E**	**30–1**	**3.6**		**¶602690510**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**24 08 41 48.8–.20**	**39.04N**	**142.29E**	**31–2**	**3.8**		**¶602690507**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**24 08 46 53.5–1.1**	**39.10N–.06**	**142.3E–.10**	**51**	**3.4b**	**17**	**1-63**
ISCJB	III	24 08 46 51.7–.91	39.05N–.05	142.32E–.10	51	3.4b		**¶17198308**
JMA	III	24 08 46 51.7–.20	39.03N	142.31E	33–2	3.9		
IDC	III	24 08 46 58.9–4.3	38.94N	142.10E	98–39	3.3,3.2		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=7.2km az=5.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=41.3km s-min=24.3km az=98.0.

ISC	**III**	**24 08 58 13.9–1.3**	**38.90N–.06**	**142.0E–.10**	**51**	**3.7b**	**18**	**1-63**
IDC	III	24 08 58 10.4–1.2	39.39N	141.74E	0	3.8,3.7		**¶17198309**
ISCJB	III	24 08 58 12.2–1.0	38.89N–.06	142.08E–.09	51	3.7b,3.7		
JMA	III	24 08 58 12.8–.10	38.85N	142.05E	45–1	3.8,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=21.4km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.1km az=29.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**24 09 13 49.0–2.5**	**37.02N–.06**	**141.24E–.08**	**10–13**		**17**	**0-57**
IDC	III	24 09 13 46.7–2.7	37.10N	141.51E	0	3.9,3.9s		**¶17198314**
ISCJB	III	24 09 13 47.5–1.6	37.03N–.06	141.40E–.07	8–7	3.2b,3.9s		
JMA	III	24 09 13 50.1–.10	37.02N	141.24E	23–1	3.6,3.9s		

ISC Event type ke.
IDC Error ellipse: s-maj=50.0km s-min=36.7km az=36.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=9.5km az=171.8.
JMA Event type fe.

ISC	**III**	**24 10 12 54.7–1.1**	**37.09N–.07**	**141.66E–.08**	**33**	**3.6b**	**17**	**1-61**
IDC	III	24 10 12 49.6–.97	36.99N	141.89E	0	3.7,3.6b		**¶17198325**
JMA	III	24 10 12 53.8–.20	37.08N	141.74E	27–3	3.7,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=19.8km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**24 10 30 36.6–1.1**	**36.81N–.03**	**140.62E–.05**	**8–8**		**16**	**0-57**
IDC	III	24 10 30 35.4–1.4	36.68N	140.67E	0	3.6,3.3		**¶17198328**
ISCJB	III	24 10 30 35.9–.77	36.79N–.04	140.70E–.08	15–5	3.4b,3.3		
JMA	III	24 10 30 36.5	36.82N	140.58E	4–1	3.4,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=34.0km s-min=24.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.2km az=19.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s171.00000°,δ72.00000°,λ-97.00000°. NP2:ϕ_s13.00000°,δ19.00000°,λ-69.00000°. Principal axes: T Plg27.0000°,Azm267.0000°; N Plg7.0000°,Azm174.0000°; P Plg62.0000°,Azm71.0000°

ISC	**III**	**24 10 44 10.7–.65**	**38.36N–.06**	**142.26E–.07**	**24**	**4.1b**	**35**	**1-89**
NIED	III	24 10 44 00	38.40N	142.30E	29	3.8W		**¶16480599**
IDC	III	24 10 44 06.8–.73	38.39N	142.31E	0	4.2,4.1		
ISCJB	III	24 10 44 08.2–.48	38.35N–.05	142.48E–.06	24	4.1b,4.1		
JMA	III	24 10 44 11.3–.20	38.44N	142.34E	35–3	4.2,4.1		
NEIC	III	24 10 44 12.1–.52	38.40N	142.39E	35	4.7b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ38.00000°,λ-93.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ-88.00000°. M_o6.15000×10^{14}
IDC Error ellipse: s-maj=21.4km s-min=15.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.1km az=146.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.9km az=122.0.

ISC	**III**	**24 11 04 57.4–1.7**	**37.39N–.05**	**141.93E–.05**	**1–11**	**3.9b**	**37**	**1-90**

NIED III 24 11 04 00 37.40N 141.90E 5 3.8W ¶602689884
ISCJB III 24 11 04 57.7–1.7 37.36N–.04 141.99E–.04 14–11 3.8b
IDC III 24 11 04 57.6–.68 37.40N 141.93E 0 3.9,3.8
JMA III 24 11 04 58.7–.20 37.36N 141.92E 17–3 4.1,3.8
NEIC III 24 11 05 02.6–.38 37.40N 141.87E 35 4.1b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S195.00000°,δ42.00000°,λ-151.00000°. NP2:ϕ_S82.00000°,δ71.00000°,λ-52.00000°. $M_0$5.20000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.6km az=26.4.
IDC Error ellipse: s-maj=19.7km s-min=14.8km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=6.5km az=123.0.
ISC III 24 11 08 22.9–2.0 39.16N–.05 142.51E–.09 24–13 3.8b 24 1-73
IDC III 24 11 08 19.0–1.1 39.09N 142.46E 0 3.9,3.7 ¶17198332
JMA III 24 11 08 24.1–.10 39.22N 142.51E 33–1 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=21.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 11 09 43.4–1.0 35.75N–.07 140.80E–.09 46–8 3.4b 13 0-56
IDC III 24 11 09 37.1–1.4 35.60N 140.83E 0 3.6,3.4b ¶17198333
ISCJB III 24 11 09 42.2–.89 35.76N–.08 140.9E–.10 54–6 3.4b,3.4b
JMA III 24 11 09 43.3–.10 35.75N 140.65E 46–1 2.8,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=33.7km s-min=29.5km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=10.3km az=140.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 11 17 32.2–.74 36.02N–.06 141.82E–.08 23 3.6b 20 1-147
NIED III 24 11 17 00 36.10N 142.00E 8 3.9W ¶17198334
IDC III 24 11 17 28.6–.76 35.97N 141.91E 0 3.8,3.7
JMA III 24 11 17 29.4–.30 36.07N 141.96E 16 3.8,3.7
ISCJB III 24 11 17 30.2–.60 36.01N–.06 141.93E–.06 23 3.6b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S0.00000°,δ35.00000°,λ97.00000°. NP2:ϕ_S172.00000°,δ55.00000°,λ85.00000°. $M_0$8.28000×10^{14}
ISCJB Event type ke.
ISC III 24 11 20 30.3–1.2 35.96N–.09 141.8E–.10 23 3.4b 10 3-60
IDC III 24 11 20 26.6–1.4 35.94N 141.92E 0 3.5,3.4 ¶17198335
ISCJB III 24 11 20 28.0–.98 35.96N–.07 141.9E–.10 23 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 24 11 32 54.9–1.2 38.90N 142.18E 0 3.7,3.4
¶17198337
IDC Error ellipse: s-maj=45.7km s-min=27.0km az=101.0.
ISC III 24 12 01 12.9–1.4 39.05N–.05 142.4E–.10 21–5 3.6b 18 1-59
NIED III 24 12 01 00 39.10N 142.30E 44 3.8W ¶17198338
IDC III 24 12 01 08.2–2.6 39.16N 142.76E 0 3.6,3.5
ISCJB III 24 12 01 11.9–1.6 39.02N–.05 142.4E–.10 26–8 3.5b,3.5
JMA III 24 12 01 14.2–.10 39.08N 142.31E 32–1 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S208.00000°,δ11.00000°,λ141.00000°. NP2:ϕ_S336.00000°,δ83.00000°,λ81.00000°. $M_0$4.86000×10^{14}
IDC Error ellipse: s-maj=69.4km s-min=29.8km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=8.2km az=2.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 12 11 21.1–1.8 35.89N–.05 141.19E–.09 14–11 3.6b 17 0-72
NIED III 24 12 11 00 35.90N 141.20E 8 3.5W ¶17198340
IDC III 24 12 11 18.9–1.1 35.80N 141.20E 0 3.7s,3.7
ISCJB III 24 12 11 19.6–1.5 35.88N–.05 141.36E–.10 19–9 3.8s,3.6b
JMA III 24 12 11 22.0–.10 35.90N 141.19E 24–2 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S241.00000°,δ69.00000°,λ23.00000°. NP2:ϕ_S142.00000°,δ69.00000°,λ157.00000°. $M_0$1.84000×10^{14}
IDC Error ellipse: s-maj=29.9km s-min=19.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.7km az=176.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 24 12 15 36.5–.10 37.83N 141.81E 42–2 3.7
¶602689589
ISC III 24 12 50 47.2–1.1 35.66N–.04 140.15E–.07 70–8 3.5b 27 0-59
IDC III 24 12 50 35.4–2.6 36.03N 141.11E 0 3.8s,3.8 ¶17198350
JMA III 24 12 50 46.5–.20 35.74N 140.21E 63–2 2.9,3.8
ISCJB III 24 12 50 46.0–.69 35.65N–.04 140.17E–.07 76–5 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA III 24 13 07 05.4–.10 39.04N 142.34E 31–2 3.6
¶602689532
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 13 19 36.9–1.9 36.76N–.04 141.17E–.06 30–14 3.6b 36 0-147
NIED III 24 13 19 00 36.80N 141.00E 56 3.9W ¶17198358
ISCJB III 24 13 19 37.3–.67 36.75N–.04 141.13E–.06 47–6 3.6b
IDC III 24 13 19 38.3–2.4 36.69N 141.22E 44–24 3.9L,3.8
JMA III 24 13 19 38.3–.10 36.79N 141.05E 50–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S205.00000°,δ54.00000°,λ-165.00000°. NP2:ϕ_S106.00000°,δ78.00000°,λ-36.00000°. $M_0$8.86000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.6km az=18.1.
IDC Error ellipse: s-maj=21.9km s-min=15.5km az=89.0.
JMA Event type fe.
ISC III 24 14 16 33.5–1.3 38.21N–.05 142.01E–.09 30 3.7b 19 1-62
IDC III 24 14 16 26.7–2.2 38.50N 142.63E 0 3.8,3.7 ¶17198369
ISCJB III 24 14 16 32.1–.91 38.16N–.04 142.17E–.09 30 3.6b,3.7
JMA III 24 14 16 35.5–.10 38.24N 141.94E 45–2 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=58.0km s-min=22.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=162.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 24 14 30 04.4–2.1 35.28N 141.63E 0 3.8,3.8
¶17198371
IDC Error ellipse: s-maj=61.5km s-min=18.8km az=69.0.
ISC III 24 15 17 17.5–2.1 38.16N–.05 142.67E–.07 4–13 3.9b 24 1-62
JMA III 24 15 17 19.8–.40 38.11N 142.62E 13–5 4.2 ¶16480655
IDC III 24 15 17 21.2–1.1 37.58N 142.95E 0 3.8,3.8
NEIC III 24 15 17 27.0–.93 37.60N 142.72E 35 4.7b,3.8
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=29.9km s-min=17.7km az=84.0.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=13.5km az=102.0.
ISC III 24 15 39 41.3–2.6 37.32N–.07 141.85E–.10 25–17 3.3b 16 1-57
IDC III 24 15 39 37.2–1.4 37.18N 142.13E 0 3.6,3.6s ¶17198380
ISCJB III 24 15 39 41.9–1.5 37.31N–.06 141.8E–.10 41–14 3.5s,3.3b
JMA III 24 15 39 42.3–.20 37.29N 141.80E 32–3 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=29.4km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=8.3km az=22.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 16 12 34.4–1.9 37.23N–.05 141.78E–.08 14–10 3.1b 19 1-57
IDC III 24 16 12 31.7–2.7 37.28N 142.00E 0 3.5,3.4 ¶600565306
JMA III 24 16 12 38.9–.20 37.24N 141.54E 45–2 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=59.6km s-min=27.0km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 16 40 48.6–1.1 36.92N–.04 141.14E–.07 45–9 3.9b 42 0-147
ISCJB III 24 16 40 47.9–.66 36.89N–.04 141.14E–.07 55–5 3.9b ¶17198384
JMA III 24 16 40 49.1–.10 36.91N 141.09E 49–1 4.0
IDC III 24 16 40 49.3–2.1 36.91N 141.03E 50–20 3.9,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=6.1km az=12.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=11.3km az=85.0.
ISC III 24 16 42 14.3–.69 38.66N–.07 142.00E–.07 41 4.2b 47 1-82
NEIC III 24 16 42 07.9–4.2 38.29N 142.18E 13–27 4.4b ¶16480666
ISCJB III 24 16 42 12.6–.50 38.69N–.05 142.05E–.06 41 4.1b
JMA III 24 16 42 15.2–.10 38.64N 141.89E 49–1 4.0
IDC III 24 16 42 17.3–2.7 38.80N 141.86E 59–24 4.1,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.1km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.9km az=141.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=14.5km az=108.0.
ISC III 24 17 08 29.7–.96 36.81N–.03 140.61E–.04 9–6 4.7b 148 0-147
NIED III 24 17 08 00 36.80N 140.60E 5 4.5W ¶16357318
ISCJB III 24 17 08 28.9–.54 36.80N–.02 140.66E–.04 14–3 4.6b
JMA III 24 17 08 29.7 36.82N 140.57E 6–1 4.7
MOS III 24 17 08 31.5–1.1 36.79N 140.62E 33 4.8b
NEIC III 24 17 08 34.0–.76 36.72N 140.59E 41–7 4.9b
IDC III 24 17 08 35.0–1.4 36.78N 140.55E 45–13 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S3.00000°,δ24.00000°,λ-89.00000°. NP2:ϕ_S182.00000°,δ66.00000°,λ-90.00000°. $M_0$6.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=25.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S198.00000°,δ58.00000°,λ-72.00000°. NP2:ϕ_S346.00000°,δ37.00000°,λ-116.00000°. Principal axes: T Plg11.0000°,Azm275.0000°; N Plg15.0000°,Azm8.0000°; P Plg71.0000°,Azm151.0000°
MOS Error ellipse: s-maj=8.5km s-min=5.3km az=106.8.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=98.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=10.9km s-min=8.8km az=73.0.
JMA III 24 17 10 43.1–.10 38.18N 141.63E 52–1 3.6
¶602688838
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 24 17 59 16.0–8.0 35.45N 141.31E 0 3.6,3.5
¶17198388
IDC Error ellipse: s-maj=297.4km s-min=28.3km az=66.0.
ISC III 24 18 14 00.7–1.1 36.25N–.04 140.85E–.06 28–7 4.0b 47 0-91
IDC III 24 18 13 56.5–.56 36.28N 140.87E 0 4.1,4.1L ¶16462165
NEIC III 24 18 13 59.9–3.1 36.23N 140.85E 24–23 4.5b,4.1L
NIED III 24 18 14 00 36.30N 140.80E 29 3.8W,4.1L
JMA III 24 18 14 00.4 36.26N 140.84E 37–1 4.1,4.1L
ISCJB III 24 18 14 00.4–.56 36.24N–.03 140.83E–.06 41–5 3.9b,4.1L
ISC Event type se.
NEIC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S67.00000°,δ8.00000°,λ-61.00000°. NP2:ϕ_S217.00000°,δ83.00000°,λ-94.00000°. $M_0$6.06000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 24 18 16 46.5–1.2 36.86N–.05 141.23E–.09 43–10 4.1b 47 0-147
NIED III 24 18 16 00 36.80N 141.20E 56 4.3W ¶16480679
IDC III 24 18 16 40.5–.63 36.84N 141.02E 0 4.2,4.2L
ISCJB III 24 18 16 45.3–.70 36.82N–.03 141.27E–.08 50–5 4.1b,4.2L
NEIC III 24 18 16 46.4–1.1 36.89N 141.15E 40–11 4.5b,4.2L
JMA III 24 18 16 47.1–.10 36.86N 141.12E 49–1 4.3,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S52.00000°,δ45.00000°,λ77.00000°. NP2:ϕ_S250.00000°,δ47.00000°,λ103.00000°. $M_0$3.40000×10^{15}
IDC Error ellipse: s-maj=20.0km s-min=14.2km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.7km az=2.6.
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=8.6km az=81.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 24 18 42 55.2–.10 37.44N 141.41E 26–1 3.5
¶602688678
JMA Event type fe.
ISC III 24 19 36 51.6–2.1 39.07N–.05 142.44E–.08 6–11 3.7b 26 1-55
ISCJB III 24 19 36 52.9–1.3 39.05N–.04 142.48E–.08 25–7 3.7b ¶17198398
IDC III 24 19 36 53.0–2.6 39.36N 142.24E 0 3.8,3.7
JMA III 24 19 36 54.8–.10 39.07N 142.38E 34–1 3.6,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.4km az=8.1.
IDC Error ellipse: s-maj=54.7km s-min=23.4km az=146.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 19 44 45.8–.65 38.84N–.04 142.19E–.05 41–5 4.9b,4.3s 269 1-155
NIED III 24 19 44 00 38.80N 142.20E 50 4.7W,4.3s ¶16359647
IDC III 24 19 44 40.0–.48 38.74N 142.14E 0 4.8,4.7
BJI III 24 19 44 39.2 38.66N 142.66E 33 5.2b,4.9b
MOS III 24 19 44 44.8–.87 38.97N 142.07E 36 5.2b,4.0s
JMA III 24 19 44 45.7–.10 38.79N 142.21E 42–2 4.8,4.0s
NEIC III 24 19 44 45.4–.75 38.75N 142.10E 37–6 4.9b,4.0s
ISCJB III 24 19 44 45.0–.54 38.80N–.03 142.19E–.05 48–4 4.8b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S156.00000°,δ17.00000°,λ22.00000°. NP2:ϕ_S45.00000°,δ84.00000°,λ106.00000°. $M_0$1.46000×10^{16}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Iwate and Miyagi.
ISCJB Event type fe.
ISC III 24 19 59 38.0–1.3 35.89N–.06 141.0E–.10 31 3.4b 14 0-65
IDC III 24 19 59 29.2–1.1 36.11N 142.10E 0 3.6L,3.5 ¶17198401
ISCJB III 24 19 59 35.8–1.1 35.88N–.06 141.2E–.10 31 3.3b,3.5
JMA III 24 19 59 39.6–.10 35.90N 140.93E 22–1 2.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=22.2km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=8.0km az=166.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 20 18 06.3–2.2 39.96N–.06 142.66E–.09 23–15 3.8b 31 1-73
IDC III 24 20 18 02.3–1.1 39.91N 142.79E 0 3.8,3.7 ¶17198403
JMA III 24 20 18 10.1–.10 39.92N 142.41E 38–2 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=20.7km az=141.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 24 20 33 44.2–2.1 39.52N–.04 142.60E–.07 4–12 4.3b 44 1-73
NIED III 24 20 33 00 39.50N 142.50E 20 3.9W ¶17198404
ISCJB III 24 20 33 45.2–1.4 39.53N–.04 142.63E–.08 20–8 3.9b
JMA III 24 20 33 46.8–.10 39.54N 142.52E 26–1 4.2
IDC III 24 20 33 52.0–2.7 39.44N 142.60E 69–24 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S140.00000°,δ19.00000°,λ5.00000°. NP2:ϕ_S45.00000°,δ88.00000°,λ109.00000°. $M_0$8.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=28.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=15.9km az=108.0.
JMA III 24 20 48 34.5–.20 38.31N 142.17E 38–4 3.4
¶603049988
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 24 20 57 30.6–1.5 35.88N–.05 141.1E–.10 31 13 0-56
IDC III 24 20 57 24.6–3.6 36.02N 141.46E 0 3.3,3.2b ¶600565572
ISCJB III 24 20 57 29.8–1.3 35.94N–.07 141.1E–.10 31 3.3b,3.2b
JMA III 24 20 57 32.1–.10 35.85N 140.93E 39–1 2.7,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=96.6km s-min=32.6km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=8.7km az=159.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 24 21 36 22.1–.10 38.63N 142.03E 52–1 3.5
¶602689187
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 24 22 51 32.7–2.1 36.61N–.05 141.19E–.07 7–12 3.7b 29 0-147
NIED III 24 22 51 00 36.60N 141.20E 8 3.8W ¶17198413
IDC III 24 22 51 31.7–.72 36.60N 141.26E 0 3.9,3.7
ISCJB III 24 22 51 31.2–1.2 36.57N–.04 141.33E–.05 9–6 3.6b,3.7
JMA III 24 22 51 34.4–.10 36.63N 141.15E 32–2 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S7.00000°,δ37.00000°,λ-113.00000°. NP2:ϕ_S214.00000°,δ57.00000°,λ-74.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=19.2km s-min=17.9km az=109.0.

ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.8km az=137.4.
JMA Event type fe.
JMA III 24 22 55 36.6 36.96N 140.59E 6–1 2.4
¶602689033
ISC III 24 23 12 18.5–1.0 36.82N–.03 140.50E–.04 9–7 4.0b 46 0-147
NIED III 24 23 12 00 36.80N 140.60E 5 3.8W **¶16480714**
IDC III 24 23 12 17.1–.70 36.80N 140.48E 0 4.1,3.9
JMA III 24 23 12 18.7 36.82N 140.57E 6–1 3.9,3.9
ISCJB III 24 23 12 18.3–.50 36.80N–.03 140.60E–.05 19–3 3.9b,3.9
NEIC III 24 23 12 23.8–.82 36.81N 140.40E 47–7 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ27.00000°,λ-107.00000°. NP2:ϕ_s137.00000°,δ64.00000°,λ-82.00000°. $M_0$6.12000×10^{14}
IDC Error ellipse: s-maj=18.5km s-min=16.4km az=136.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s299.00000°,δ47.00000°,λ-101.00000°. NP2:ϕ_s135.00000°,δ45.00000°,λ-79.00000°. Principal axes: T Plg1.0000°,Azm37.0000°; N Plg8.0000°,Azm307.0000°; P Plg82.0000°,Azm134.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=17.3.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=112.0.
JMA III 24 23 25 24.1–.10 37.29N 141.87E 31–2 3.4
¶602688985
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 24 23 25 43.4 36.88N 140.66E 7–1 2.5
¶602689671
ISC III 25 00 00 35.3–1.9 37.31N–.05 141.40E–.07 14–10 3.7b 32 1-155
NIED III 25 00 00 00 37.40N 141.40E 20 3.6W **¶17198425**
JMA III 25 00 00 36.8–.10 37.38N 141.44E 33–2 3.8
IDC III 25 00 00 41.7–3.6 37.34N 141.30E 61–32 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ44.00000°,λ-85.00000°. NP2:ϕ_s268.00000°,δ46.00000°,λ-95.00000°. $M_0$3.10000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.1km s-min=17.6km az=79.0.
ISC III 25 00 02 16.8–1.9 39.45N–.06 142.5E–.10 20–11 3.6b 17 1-73
JMA III 25 00 02 16.2–.10 39.44N 142.62E 27–1 4.0 **¶17198426**
IDC III 25 00 02 18.5–1.0 39.81N 141.84E 0 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=19.6km az=83.0.
ISC III 25 00 11 39.8–1.5 39.13N–.09 142.86E–.09 16 3.6b 11 1-59
JMA III 25 00 11 38.0–.20 39.18N 143.02E 17–3 3.2 **¶17198430**
ISCJB III 25 00 11 38.5–1.2 39.19N–.08 143.02E–.09 16 3.7b
IDC III 25 00 11 40.4–1.4 39.60N 142.86E 0 3.7,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=8.8km az=31.3.
IDC Error ellipse: s-maj=41.1km s-min=26.9km az=114.0.
IDC III 25 00 14 33.5–4.1 38.03N 141.02E 80–38 3.4,3.4
¶17198431
IDC Error ellipse: s-maj=39.8km s-min=25.5km az=92.0.
ISC III 25 00 15 58.5–2.6 38.19N–.06 142.1E–.10 5–13 3.5b 20 1-46
IDC III 25 00 15 41.6–2.8 37.53N 144.77E 0 3.7,3.6b **¶600565864**
NIED III 25 00 16 00 38.30N 142.10E 47 3.6W,3.6b
JMA III 25 00 16 01.8–.10 38.30N 142.12E 36–2 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=72.1km s-min=34.8km az=68.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ20.00000°,λ131.00000°. NP2:ϕ_s10.00000°,δ75.00000°,λ77.00000°. $M_0$3.31000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 25 00 19 24.1–1.6 36.29N–.09 141.2E–.10 31 3.5b 12 1-56
IDC III 25 00 19 17.4–2.5 36.44N 141.71E 0 3.6,3.5 **¶17198434**
JMA III 25 00 19 30.2–.10 35.86N 140.61E 50–1 2.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=69.7km s-min=27.8km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 00 48 52.7–2.2 37.26N–.05 141.73E–.07 14–13 3.8b 27 1-63
NIED III 25 00 48 00 37.30N 141.60E 32 3.8W **¶17198435**
JMA III 25 00 48 55.3–.20 37.28N 141.63E 45–2 4.0
IDC III 25 00 48 58.6–3.6 37.18N 141.58E 65–33 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ9.00000°,λ4.00000°. NP2:ϕ_s42.00000°,δ89.00000°,λ99.00000°. $M_0$4.97000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.9km s-min=21.7km az=108.0.
ISC III 25 01 54 46.1–1.9 38.78N–.06 142.3E–.10 20–8 3.5b 20 1-59
NIED III 25 01 54 00 38.80N 142.30E 47 3.8W **¶17198438**
JMA III 25 01 54 47.3–.10 38.75N 142.32E 37–2 4.0
IDC III 25 01 54 59.8–4.6 39.05N 140.78E 60–43 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ37.00000°,λ43.00000°. NP2:ϕ_s6.00000°,δ66.00000°,λ119.00000°. $M_0$5.59000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=24.6km az=71.0.
ISC III 25 02 00 59.1–.77 38.67N–.08 142.55E–.07 24 3.7b 25 1-88
NIED III 25 02 00 00 38.70N 142.60E 23 3.9W **¶17198441**
ISCJB III 25 02 00 57.6–.60 38.63N–.07 142.68E–.05 24 3.6b
JMA III 25 02 00 59.8–.20 38.75N 142.56E 26–3 4.0
IDC III 25 02 01 04.8–2.9 38.67N 142.62E 73–27 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s116.00000°,δ9.00000°,λ13.00000°. NP2:ϕ_s13.00000°,δ88.00000°,λ99.00000°. $M_0$6.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.1km az=176.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=15.4km az=107.0.
ISC III 25 02 17 42.1–.88 39.17N–.04 142.40E–.07 28–6 3.6b 33 1-91
NIED III 25 02 17 00 39.20N 142.40E 41 3.6W **¶17198443**
ISCJB III 25 02 17 39.9–1.3 39.14N–.04 142.49E–.07 26–7 3.5b
JMA III 25 02 17 41.3–.10 39.17N 142.41E 32–1 3.9
IDC III 25 02 17 42.1–.70 39.10N 142.47E 31–5 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ20.00000°,λ-125.00000°. NP2:ϕ_s179.00000°,δ74.00000°,λ-78.00000°. $M_0$3.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.5km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=14.9km az=106.0.
ISC III 25 02 36 12.7–1.2 36.91N–.05 140.45E–.06 6–13 16 0-61
IDC III 25 02 36 12.1–2.3 36.87N 140.48E 0 4.0s,4.0 **¶17198444**
ISCJB III 25 02 36 12.8–.61 36.88N–.03 140.55E–.05 16–8 4.0s,3.8b
JMA III 25 02 36 13.0 36.90N 140.49E 7–1 3.3,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=17.0km az=10.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.8km az=0.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s353.00000°,δ47.00000°,λ-101.00000°. NP2:ϕ_s188.00000°,δ44.00000°,λ-79.00000°. Principal axes: T Plg2.0000°,Azm90.0000°; N Plg8.0000°,Azm360.0000°; P Plg82.0000°,Azm194.0000°
JMA III 25 03 16 13.4–.20 38.14N 142.36E 39–4 3.6
NIED III 25 03 16 00 38.10N 142.40E 32 3.7W **¶600566011**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ67.00000°,λ-15.00000°. NP2:ϕ_s18.00000°,δ77.00000°,λ-156.00000°. $M_0$3.85000×10^{14}
JMA III 25 03 25 50.7–.10 39.18N 142.36E 32–1 3.2
¶602693637
JMA III 25 03 26 38.1–.20 39.59N 142.70E 27–3 3.5
NIED III 25 03 26 00 39.60N 142.70E 8 3.6W **¶600566018**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ21.00000°,λ36.00000°. NP2:ϕ_s34.00000°,δ78.00000°,λ107.00000°. $M_0$3.20000×10^{14}
JMA III 25 03 29 03.3–.20 37.72N 141.84E 17–2 3.8
NIED III 25 03 29 00 37.70N 141.80E 8 3.5W **¶602693628**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ40.00000°,λ-95.00000°. NP2:ϕ_s306.00000°,δ50.00000°,λ-85.00000°. $M_0$1.78000×10^{14}
ISC III 25 03 42 03.6–2.8 36.46N–.04 141.90E–.07 2–17 3.9b 37 1-75
NIED III 25 03 42 00 36.50N 141.80E 29 3.7W **¶602693604**
IDC III 25 03 42 03.3–.80 36.39N 142.04E 0 4.0L,3.9
NEIC III 25 03 42 04.0–5.2 36.43N 142.00E 6–32 4.2b,3.9
ISCJB III 25 03 42 04.4–1.3 36.46N–.03 141.98E–.07 19–8 3.8b,3.9
JMA III 25 03 42 07.2–.10 36.50N 141.80E 32 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ37.00000°,λ-150.00000°. NP2:ϕ_s206.00000°,δ72.00000°,λ-57.00000°. $M_0$3.66000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=16.6km az=108.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.1km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.5km az=176.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 04 11 26.9–.67 38.26N–.04 141.79E–.06 53–5 4.2b,3.5s 83 0-146
NIED III 25 04 11 00 38.30N 141.60E 56 4.3W,3.5s **¶602693551**
ISCJB III 25 04 11 26.8–.54 38.31N–.04 141.69E–.06 65–4 4.2b,3.5s
NEIC III 25 04 11 27.3–.59 38.28N 141.74E 56–5 4.4b,3.5s
IDC III 25 04 11 27.6–.74 38.31N 141.69E 55–5 4.2,4.0
JMA III 25 04 11 28.4–.10 38.32N 141.57E 60–1 4.3,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ30.00000°,λ38.00000°. NP2:ϕ_s235.00000°,δ72.00000°,λ114.00000°. $M_0$3.07000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.3km az=23.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.2km az=132.0.
IDC Error ellipse: s-maj=15.0km s-min=12.8km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 25 04 13 16.9–.10 37.23N 141.38E 43–2 3.2
¶603310064
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 04 26 59.6–.20 37.75N 141.86E 27–3 3.5
¶602693082
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 04 43 04.9–.20 38.29N 142.26E 18–2 3.3
¶603049991
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 04 49 36.3–1.5 37.29N–.04 141.34E–.08 32–10 3.3b 24 0-57
NIED III 25 04 49 00 37.30N 141.20E 29 3.4W **¶17198450**
IDC III 25 04 49 29.6–2.7 37.59N 141.70E 0 3.5,3.4b
ISCJB III 25 04 49 36.6–1.2 37.27N–.04 141.33E–.08 28–5 3.3b,3.4b
JMA III 25 04 49 38.7–.10 37.30N 141.18E 36–1 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ6.00000°,λ-116.00000°. NP2:ϕ_s214.00000°,δ84.00000°,λ-87.00000°. $M_0$1.33000×10^{14}
IDC Error ellipse: s-maj=65.9km s-min=30.1km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.7km az=18.7.
JMA Event type fe.
ISC III 25 05 11 18.0–2.2 37.31N–.06 141.90E–.09 26–14 3.8b 26 1-63
ISCJB III 25 05 11 18.4–1.2 37.29N–.05 141.96E–.10 46–12 4.1s,3.5b **¶17198451**
IDC III 25 05 11 18.8–1.1 38.07N 141.59E 0 4.0,4.0s
JMA III 25 05 11 19.0–.20 37.31N 141.90E 35–4 4.1,4.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.1km az=19.1.
IDC Error ellipse: s-maj=31.4km s-min=20.3km az=129.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 05 21 25.6–.10 35.97N 141.20E 25–2 3.5
¶602692972
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 05 30 42.4–1.5 36.0N–.60 141.7E–.40 35 4.1b 6 1-147
JMA III 25 05 30 41.2–.40 35.77N 141.83E 10–5 3.8 **¶16480773**
IDC III 25 05 30 41.1–.82 36.03N 142.86E 0 4.3,4.1
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=26.6km s-min=21.3km az=66.0.
IDC III 25 05 52 28.9–2.8 36.24N 141.95E 0 3.4,3.3b
¶17198459
IDC Error ellipse: s-maj=80.1km s-min=30.1km az=60.0.
JMA III 25 06 02 19.1–.10 37.21N 141.39E 37–2 3.2
¶603049992
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 06 35 38.2–.96 36.98N–.03 140.79E–.04 11–6 4.2b 64 0-82
NIED III 25 06 35 00 37.00N 140.80E 5 3.8W **¶602692503**
IDC III 25 06 35 36.5–.78 36.98N 140.78E 0 4.0,3.9
ISCJB III 25 06 35 37.4–.72 36.98N–.03 140.93E–.05 16–4 4.2b,3.9
JMA III 25 06 35 38.5 36.98N 140.77E 9–1 3.9,3.9
NEIC III 25 06 35 43.4–.81 36.96N 140.79E 50–7 4.6b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_s48.00000°,δ47.00000°,λ-93.00000°. $M_0$6.12000×10^{14}
IDC Error ellipse: s-maj=20.1km s-min=18.5km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=19.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s56.00000°,δ49.00000°,λ-86.00000°. NP2:ϕ_s230.00000°,δ41.00000°,λ-95.00000°. Principal axes: T Plg4.0000°,Azm143.0000°; N Plg3.0000°,Azm233.0000°; P Plg85.0000°,Azm0.0000°
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.0km az=80.0.
JMA III 25 07 50 06.3–.20 38.93N 142.51E 25–3 2.9
¶603049993
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 25 08 42 55.1–.86 37.53N–.06 141.90E–.06 24 3.5b 23 1-77
NIED III 25 08 42 00 37.50N 142.00E 11 3.5W **¶600566293**
IDC III 25 08 42 51.2–1.1 37.45N 142.01E 0 3.7,3.6b
JMA III 25 08 42 53.3–.20 37.51N 141.99E 18–3 3.9,3.6b
ISCJB III 25 08 42 53.2–.71 37.48N–.06 142.03E–.05 24 3.5b,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ27.00000°,λ-110.00000°. NP2:ϕ_s37.00000°,δ65.00000°,λ-80.00000°. $M_0$2.02000×10^{14}
ISCJB Event type ke.
JMA III 25 09 22 58.0–.10 39.26N 142.37E 35–1 2.8
¶603145390
JMA III 25 09 48 42.0–.10 38.37N 141.99E 30–1 4.0
¶602691967
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 09 56 30.4–1.2 37.45N–.06 141.92E–.08 24 3.5b 16 1-58
IDC III 25 09 56 26.5–1.4 37.32N 142.10E 0 3.7,3.5b **¶600566341**
ISCJB III 25 09 56 29.5–1.1 37.51N–.06 142.05E–.08 24 3.6b,3.5b
JMA III 25 09 56 31.0–.20 37.45N 141.88E 24–4 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=36.5km s-min=28.6km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.3km az=23.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 10 19 36.8–.20 37.02N 141.57E 46–2 3.7
¶602691901
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 10 39 40.7–1.8 37.55N–.04 141.86E–.06 6–10 3.5b 28 1-146
NIED III 25 10 39 00 37.60N 141.80E 11 3.8W **¶17198484**
ISCJB III 25 10 39 40.9–1.3 37.54N–.04 141.89E–.08 15–9 3.5b
IDC III 25 10 39 40.1–.86 37.52N 141.94E 0 3.8,3.6
JMA III 25 10 39 42.8–.10 37.58N 141.80E 23–3 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ50.00000°,λ-46.00000°. NP2:ϕ_s210.00000°,δ56.00000°,λ-130.00000°. $M_0$5.39000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.6km az=15.6.
IDC Error ellipse: s-maj=24.9km s-min=19.9km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 11 02 35.5–2.0 38.21N–.08 142.2E–.10 14 3.3b 16 1-48
JMA III 25 11 02 32.5–.20 38.02N 142.58E 35–3 3.9 **¶602692908**
IDC III 25 11 02 40.5–2.7 38.79N 141.36E 0 3.3,3.3b
ISC Event type ke.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=63.5km s-min=27.3km az=142.0.
ISC III 25 11 24 26.4–1.2 37.40N–.06 141.97E–.08 24 3.4b 15 1-57
IDC III 25 11 24 22.2–1.4 37.20N 142.30E 0 3.6,3.5b **¶17198489**
ISCJB III 25 11 24 25.6–1.1 37.39N–.06 142.00E–.08 24 3.4b,3.5b
JMA III 25 11 24 26.4–.20 37.40N 141.96E 24–4 3.7,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=29.6km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.7km az=23.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 11 36 09.4–.10 39.68N 142.13E 48–1 2.2
¶602692839
ISC III 25 11 36 24.3–.18 38.75N–.02 141.99E–.03 39–1 6.1b,6.0s 2169 1-160
NIED III 25 11 36 00 38.70N 142.10E 44 6.2W,6.0s **¶602442668**
MOS III 25 11 36 21.8–1.0 38.82N 142.02E 33 6.2b,6.0s
BJI III 25 11 36 21.0 38.65N 142.00E 30 6.3s,6.2
ISCJB III 25 11 36 22.2–.38 38.77N–.02 141.91E–.01 33–3 6.0b,6.0s
GCMT III 25 11 36 24.5–.10 38.78N 142.17E 46–0 6.2W,6.0s
NEIC III 25 11 36 24.0–.00 38.56N 142.14E 39 6.2W,6.0s
JMA III 25 11 36 24.2–.10 38.73N 142.11E 45–1 6.3,6.0s
NEIC III 25 11 36 24.5–.08 38.77N 141.88E 39 6.2W,6.2b
IDC III 25 11 36 26.1–1.6 38.78N 141.95E 54–14 6.0,6.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ102.00000°. $M_0$2.10000×10^{18}
MOS Error ellipse: s-maj=7.1km s-min=4.3km az=92.5.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=158.8.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c310; s129,c491;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}1.88±.01 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$-1.83±.01; $M_{r\theta}$0.82±.01; $M_{\theta\phi}$-0.49±.01; $M_{\phi r}$1.60±.01; Best double couple: NP1:ϕ_s23.00000°,δ67.00000°,λ97.00000°. NP2:ϕ_s185.00000°,δ24.00000°,λ74.00000°. Principal axes: T 2.6140,Plg68.0000°,Azm306.0000° ; N 0.0350,Plg7.0000°,Azm200.0000°; P -2.6420,Plg21.0000°,Azm108.0000° $M_0$2.62800×10^{18}
NEIC Event type se. Moment Tensor Solution. s66 Moment tensor: Scale 10^{18}Nm; M_{rr}1.31 $M_{\theta\theta}$-0.24 $M_{\phi\phi}$-1.07 $M_{r\theta}$1.05 $M_{\theta\phi}$-0.19 $M_{\phi r}$2.29 Best double couple: NP1:ϕ_s23.00000° ,δ77.00000°,λ94.00000°. NP2:ϕ_s187.00000°,δ13.00000°,λ74.00000°. Principal axes: T 2.9100,Plg57.0000°,Azm298.0000°; N -0.2300,Plg3.0000°,Azm202.0000° ; P -2.6700,Plg32.0000°,Azm110.0000° $M_0$2.80000×10^{18}
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=145.0. Felt [IV] at Misawa. Also felt at Akiruno, Numata and Tokyo. Recorded [4 JMA] in Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$3.20000×10^{18} Moment Tensor Solution. s94 Moment tensor: Scale 10^{18}Nm; M_{rr}1.14 $M_{\theta\theta}$0.34 $M_{\phi\phi}$-1.48 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.24 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s165.00000°,δ28.00000°,λ53.00000°. NP2:ϕ_s26.00000° ,δ68.00000°,λ108.00000°. Principal axes: T 1.7700,Plg62.0000°,Azm323.0000° ; N 0.2200,Plg16.0000°,Azm199.0000°; P -1.9900,Plg22.0000°,Azm102.0000° $M_0$1.90000×10^{18}
IDC Error ellipse: s-maj=10.2km s-min=8.2km az=101.0.
ISC III 25 11 52 17.2–2.3 38.88N–.05 142.30E–.10 7–13 3.5b 18 1-59
IDC III 25 11 52 16.4–2.7 38.86N 142.33E 0 3.5,3.5b **¶600566454**
ISCJB III 25 11 52 17.7–2.1 38.86N–.05 142.4E–.10 22–11 3.6b,3.5b
JMA III 25 11 52 18.6–.10 38.91N 142.35E 24–2 3.9,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=69.6km s-min=30.6km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=7.5km az=10.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 12 12 48.4–3.3 38.20N–.07 142.3E–.20 25–16 16 1-4
JMA III 25 12 12 53.1–.10 38.33N 142.10E 34–1 3.6 **¶602692795**
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 25 12 13 04.0–.10 38.48N 142.29E 28–3 3.8
IDC III 25 12 13 00.1–2.6 38.09N 141.60E 0 3.9,3.7 **¶602692793**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=66.9km s-min=30.0km az=68.0.
JMA III 25 12 13 50.6–.10 38.33N 141.93E 42–1 3.6
¶17198493
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 12 15 33.6–1.3 37.19N–.06 141.83E–.08 19 3.8b 15 1-57
ISCJB III 25 12 15 31.5–1.0 37.16N–.05 142.00E–.08 19 3.6b **¶600566482**
IDC III 25 12 15 32.1–2.6 37.10N 141.65E 0 3.7,3.6
JMA III 25 12 15 34.9–.20 37.30N 141.86E 20–2 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.5km az=159.9.
IDC Error ellipse: s-maj=56.5km s-min=26.5km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 12 17 46.0–1.1 36.99N–.04 140.79E–.06 9–7 3.1b 18 0-57
ISCJB III 25 12 17 44.6–1.0 36.97N–.04 140.90E–.08 12–4 3.2b **¶17198496**
IDC III 25 12 17 44.4–1.9 36.98N 140.78E 0 3.4,3.3
JMA III 25 12 17 46.0 36.98N 140.77E 8–1 3.3,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.9km az=11.8.
IDC Error ellipse: s-maj=28.3km s-min=20.8km az=169.0.
JMA Event type fe.
ISC III 25 12 21 51.4–1.4 35.67N–.06 141.18E–.10 33 14 0-56
IDC III 25 12 21 46.6–3.1 35.66N 141.26E 0 3.4,3.3 **¶17198497**
ISCJB III 25 12 21 50.1–1.3 35.68N–.06 141.3E–.10 33 3.3b,3.3
JMA III 25 12 21 52.8–.20 35.74N 140.95E 34–1 2.7,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=61.6km s-min=28.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=7.8km az=162.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 12 29 51.4–.66 38.85N–.05 142.03E–.07 44–4 4.2b 58 1-78
JMA III 25 12 29 51.9–.10 38.88N 141.97E 50–1 4.0 **¶16361169**
ISCJB III 25 12 29 51.1–.61 38.84N–.03 141.98E–.08 61–5 4.2b
NEIC III 25 12 29 53.5–.62 38.87N 141.99E 66–5 4.4b
IDC III 25 12 29 53.5–.82 38.79N 141.93E 68–5 4.2s,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.1km az=13.5.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=109.0. Recorded [3 JMA] in Miyagi.
IDC Error ellipse: s-maj=17.2km s-min=10.6km az=99.0.
ISC III 25 12 53 27.8–1.2 36.73N–.03 140.58E–.05 7–7 3.6b 26 0-91
IDC III 25 12 53 26.6–.77 36.71N 140.58E 0 3.9,3.7 **¶17198502**
JMA III 25 12 53 27.7 36.74N 140.59E 5–1 4.0,3.7
ISCJB III 25 12 53 27.1–.78 36.71N–.03 140.66E–.05 12–5 3.5b,3.7
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 25 14 01 00.1–2.1 39.23N–.05 142.3E–.10 26–13 3.7b 22 0-50
IDC III 25 14 00 58.0–2.5 39.57N 142.13E 0 3.7,3.6 **¶17198512**
JMA III 25 14 00 59.7–.10 39.16N 142.34E 36–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=53.5km s-min=29.6km az=150.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 14 10 41.8–1.8 37.48N–.05 141.86E–.06 10–10 4.2b 57 1-146
NIED III 25 14 10 00 37.40N 141.90E 5 4.1W **¶16462172**
ISCJB III 25 14 10 40.8–1.1 37.42N–.04 142.00E–.05 18–7 4.2b
IDC III 25 14 10 40.2–.63 37.43N 141.84E 0 4.3,4.2
JMA III 25 14 10 41.6–.20 37.44N 141.93E 20–3 4.4,4.2
NEIC III 25 14 10 45.4–.49 37.50N 141.82E 35 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ40.00000°,λ-113.00000°. NP2:ϕ_s81.00000°,δ54.00000°,λ-72.00000°. $M_0$1.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=38.4.
IDC Error ellipse: s-maj=17.4km s-min=13.9km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.6km az=146.0.
JMA III 25 15 01 29.3–.10 36.34N 140.58E 52–1 3.0
¶603310065
JMA Event type fe.
ISC III 25 15 46 05.0–.69 36.68N–.05 141.10E–.06 48–5 4.3b 75 0-147
NIED III 25 15 46 00 36.70N 141.10E 44 4.2W **¶600566671**
ISCJB III 25 15 46 03.6–.69 36.65N–.03 141.15E–.07 51–4 4.2b
JMA III 25 15 46 04.4–.10 36.68N 141.12E 45–1 4.2
NEIC III 25 15 46 04.9–.96 36.63N 141.18E 49–8 4.7b
IDC III 25 15 46 05.3–.54 36.63N 141.13E 49–5 4.1,4.0
BJI III 25 15 46 17.2 36.88N 139.81E 105 5.0b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ23.00000°,λ103.00000°. NP2:ϕ_s310.00000°,δ68.00000°,λ85.00000°. $M_0$2.60000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.3km az=13.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.5km az=102.0.
IDC Error ellipse: s-maj=10.5km s-min=8.0km az=127.0.
ISC III 25 16 10 21.7–1.6 36.58N–.05 141.08E–.07 20–7 3.6b 23 0-80
NIED III 25 16 10 00 36.70N 140.90E 62 3.8W **¶16361172**
JMA III 25 16 10 25.0–.10 36.64N 140.91E 49–1 3.7
IDC III 25 16 10 26.7–2.4 36.51N 140.85E 64–26 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ33.00000°,λ58.00000°. NP2:ϕ_s45.00000°,δ63.00000°,λ109.00000°. $M_0$5.14000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=14.9km az=79.0.
JMA III 25 16 27 05.4–.10 37.24N 141.38E 33–1 3.0
¶603049256
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 16 44 41.5–.80 36.01N–.05 141.62E–.07 26 3.8b 29 1-78
IDC III 25 16 44 37.8–1.2 36.05N 141.72E 0 4.0L,3.9 **¶600566721**
ISCJB III 25 16 44 39.1–.55 36.02N–.03 141.77E–.06 26 3.8b,3.6s
JMA III 25 16 44 42.2–.20 36.05N 141.53E 43–3 3.4,3.6s
NEIC III 25 16 44 42.5–.57 36.01N 141.66E 35 4.3b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=31.0km s-min=20.4km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.6km az=7.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.3km az=83.0.
ISC III 25 16 49 28.5–1.3 36.90N–.04 141.31E–.08 41–13 3.7b 23 0-57
NIED III 25 16 49 00 36.90N 141.10E 47 3.7W **¶602691575**
ISCJB III 25 16 49 27.4–.86 36.87N–.04 141.35E–.09 47–8 3.6b
JMA III 25 16 49 29.9–.10 36.94N 141.14E 50–1 3.9
IDC III 25 16 49 31.6–2.6 36.73N 141.20E 73–23 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ16.00000°,λ-141.00000°. NP2:ϕ_s249.00000°,δ80.00000°,λ-77.00000°. $M_0$4.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.8km az=8.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=11.8km az=63.0.
ISC III 25 17 41 04.6–1.2 36.57N–.05 141.49E–.09 26 16 1-57
IDC III 25 17 41 00.0–2.9 36.63N 141.85E 0 4.0,3.9 **¶600566780**
ISCJB III 25 17 41 02.7–1.0 36.53N–.05 141.62E–.09 26 3.4b,3.9
JMA III 25 17 41 06.1–.10 36.62N 141.39E 42–2 3.1,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=62.5km s-min=26.6km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.1km az=157.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 17 45 26.7–.20 35.71N 140.96E 5–2 1.2
¶603049257
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 18 01 27.2–.10 38.46N 142.19E 32–2 3.7
¶602692202
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 25 19 18 12.1–.10 39.00N 142.41E 32–2 3.5
NIED III 25 19 18 00 39.00N 142.40E 5 3.9W **¶600566900**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ41.00000°,λ51.00000°. NP2:ϕ_s318.00000°,δ59.00000°,λ118.00000°. $M_0$7.47000×10^{14}
ISC III 25 19 30 14.5–1.1 38.42N–.04 142.10E–.06 42–10 4.2b,3.6s 86 1-146
NIED III 25 19 30 00 38.40N 142.00E 50 4.1W,3.6s **¶16360595**
ISCJB III 25 19 30 13.7–.63 38.42N–.03 142.07E–.06 49–5 4.3b,3.5s
BJI III 25 19 30 14.7 38.63N 142.14E 57 4.7b,4.5b
NEIC III 25 19 30 15.5–1.1 38.45N 142.15E 51–12 4.5b,4.5b
JMA III 25 19 30 15.1–.10 38.45N 141.96E 48–1 4.2,4.5b
IDC III 25 19 30 17.2–2.2 38.43N 141.92E 68–20 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s64.00000°,δ50.00000°,λ141.00000°. NP2:ϕ_s181.00000°,δ61.00000°,λ47.00000°. $M_0$1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=25.1.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=10.8km az=137.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=13.0km az=103.0.
ISC III 25 19 53 31.5–2.0 38.37N–.08 141.99E–.09 34–4 3.6b 18 1-58
NIED III 25 19 53 00 38.40N 142.10E 68 3.9W **¶17198544**
JMA III 25 19 53 30.4–.10 38.39N 142.07E 34–1 3.7
ISCJB III 25 19 53 30.5–1.6 38.37N–.07 142.1E–.10 41–12 3.5b,2.5s
IDC III 25 19 53 35.8–4.6 38.31N 142.03E 76–40 3.5,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ44.00000°,λ31.00000°. NP2:ϕ_s323.00000°,δ69.00000°,λ130.00000°. $M_0$7.47000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=11.0km az=10.7.
IDC Error ellipse: s-maj=41.0km s-min=22.7km az=81.0.
ISC III 25 20 22 05.3–1.6 38.34N–.07 141.9E–.10 48–13 3.7b 30 0-77
IDC III 25 20 21 58.6–.86 38.30N 141.77E 0 3.9,3.7 **¶602691365**
NIED III 25 20 22 00 38.30N 141.80E 32 3.7W,3.7
ISCJB III 25 20 22 04.6–.98 38.33N–.06 141.8E–.10 58–7 3.6b,3.7
JMA III 25 20 22 05.4–.10 38.34N 141.82E 49–1 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=18.0km az=118.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ6.00000°,λ-72.00000°. NP2:ϕ_s218.00000°,δ84.00000°,λ-92.00000°. $M_0$3.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=8.1km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 25 20 23 54.4 36.78N 140.90E 27–1 3.5
¶602691363
JMA Event type fe.
ISC III 25 20 52 09.9–1.1 35.87N–.04 141.02E–.06 16–7 4.0b 60 0-148
NIED III 25 20 52 00 35.90N 141.00E 20 4.1W **¶602691337**
IDC III 25 20 52 07.3–.59 35.78N 141.06E 0 4.0,3.9
ISCJB III 25 20 52 07.9–1.0 35.81N–.03 141.18E–.05 15–6 3.9b,3.7s
JMA III 25 20 52 10.4–.10 35.86N 140.93E 23–1 4.1,3.7s
NEIC III 25 20 52 12.2–.39 35.77N 141.07E 35 4.3b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ39.00000°,λ-47.00000°. NP2:ϕ_s319.00000°,δ63.00000°,λ-119.00000°. $M_0$1.61000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=13.6km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.3km az=173.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.8km az=124.0. Recorded [3 JMA] in Ibaraki.
ISC III 25 21 11 12.4–1.2 35.95N–.06 141.1E–.10 31 3.5b 11 0-56
IDC III 25 21 11 08.8–1.4 35.92N 141.17E 0 3.6,3.4 **¶17198552**
JMA III 25 21 11 10.3–.20 35.95N 141.17E 16–3 3.4,3.4
ISCJB III 25 21 11 10.9–.99 35.91N–.06 141.13E–.10 31 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 21 31 55.4–2.3 39.17N–.06 142.89E–.09 0–12 3.3b 23 1-59
IDC III 25 21 31 52.7–2.7 39.39N 143.59E 0 3.4,3.3 **¶17198556**
ISCJB III 25 21 31 55.7–1.5 39.17N–.06 143.01E–.08 16–9 3.2b,3.3

JMA III 25 21 31 56.6–.20 39.25N 142.94E 16–2 3.3,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=70.3km s-min=28.5km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.5km az=22.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 21 37 07.4–.54 37.21N–.06 141.92E–.07 24 4.0b 40 1-96
IDC III 25 21 37 04.7–.82 37.44N 141.94E 0 4.1,4.0L **¶16480902**
ISCJB III 25 21 37 05.6–.45 37.29N–.05 142.11E–.08 24 4.1b,3.8s
NEIC III 25 21 37 08.4–2.0 37.37N 141.96E 26–15 4.3b,3.8s
JMA III 25 21 37 19.0–.20 36.67N 141.28E 41–4 3.2,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=16.4km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.7km az=27.3.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.5km az=131.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 21 43 01.7–.96 36.35N–.05 140.95E–.07 20–6 3.6b 23 0-78
NIED III 25 21 43 00 36.30N 141.00E 23 3.5W **¶17198557**
IDC III 25 21 43 01.3–.99 36.91N 140.91E 0 3.8,3.7b
JMA III 25 21 43 01.9–.10 36.32N 140.98E 42–1 3.5,3.7b
ISCJB III 25 21 43 02.1–1.0 36.34N–.05 141.00E–.07 36–8 3.6b,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ14.00000°,λ-57.00000°. NP2:ϕ_s187.00000°,δ78.00000°,λ-98.00000°. $M_0$2.25000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 25 21 58 26.1–2.3 36.9N–.10 141.7E–.10 33 3.3b 13 1-44
IDC III 25 21 58 10.8–11 35.96N 142.74E 0 3.5,3.5 **¶17198562**
JMA III 25 21 58 22.7–.40 36.75N 141.89E 38 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=219.3km s-min=81.1km az=154.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC III 25 22 04 10.8–14 38.39N 142.51E 0 3.5b,3.4 ¶17198563
IDC Error ellipse: s-maj=267.6km s-min=53.1km az=116.0.
JMA III 25 22 04 45.8–.20 38.92N 142.55E 31–3 3.2 ¶603049258
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 25 22 16 26.8–2.1 37.12N–.07 141.44E–.09 7–13 3.5b 21 1-57
IDC III 25 22 16 16.6–2.6 36.33N 142.45E 0 3.7,3.6L **¶17198565**
ISCJB III 25 22 16 26.5–2.0 37.09N–.06 141.53E–.08 13–15 3.5b,3.6L
JMA III 25 22 16 28.6–.10 37.08N 141.39E 34–1 3.7,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=71.8km s-min=27.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.8km az=38.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 25 22 30 44.7–.85 36.24N–.04 141.28E–.08 21–4 3.6b 21 1-78
IDC III 25 22 30 38.8–3.5 35.80N 141.27E 0 3.7,3.6 **¶17198566**
JMA III 25 22 30 46.1–.10 36.25N 141.26E 44–2 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=96.5km s-min=27.3km az=3.0.
ISC III 25 22 57 47.6–2.4 36.98N–.05 141.0E–.10 12–10 12 0-69
IDC III 25 22 57 44.0–5.3 36.96N 141.33E 0 3.7b,3.6 **¶600567080**
JMA III 25 22 57 50.1 36.99N 140.77E 8–1 2.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=108.2km s-min=46.5km az=139.0.
JMA Event type fe.
ISC III 25 23 03 30.5–.63 36.81N–.05 141.06E–.06 52–5 3.8b 42 0-147
NIED III 25 23 03 00 36.80N 141.10E 53 4.1W **¶17198570**
ISCJB III 25 23 03 28.9–.62 36.80N–.04 141.09E–.07 57–5 3.7b
JMA III 25 23 03 29.7–.10 36.82N 141.11E 47–1 3.8
IDC III 25 23 03 30.8–.67 36.87N 140.96E 55–6 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ50.00000°,λ152.00000°. NP2:ϕ_s57.00000°,δ69.00000°,λ44.00000°. $M_0$1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.2km az=19.3.
JMA Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=12.8km az=137.0.
ISC III 25 23 16 39.7–1.1 38.14N–.06 141.77E–.08 45–6 3.9b 39 0-73
ISCJB III 25 23 16 39.6–.88 38.16N–.04 141.72E–.09 59–5 3.9b **¶600567111**
JMA III 25 23 16 40.6–.10 38.19N 141.69E 50–1 3.6
IDC III 25 23 16 42.6–1.4 38.16N 141.73E 72–7 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.4km az=26.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=16.6km az=78.0.
ISC III 25 23 50 09.3–1.8 39.08N–.04 142.40E–.07 25–12 4.3b,3.8s 73 1-145
NIED III 25 23 50 00 39.10N 142.30E 35 4.4W,3.8s **¶16361174**
JMA III 25 23 50 09.4–.10 39.13N 142.41E 33–2 4.4,3.8s
ISCJB III 25 23 50 10.1–.76 39.11N–.03 142.37E–.06 42–5 4.1b,3.8s
IDC III 25 23 50 12.8–2.2 39.07N 142.27E 53–20 4.1,4.0
NEIC III 25 23 50 13.3–.70 39.12N 142.30E 57–6 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ12.00000°,λ-138.00000°. NP2:ϕ_s183.00000°,δ82.00000°,λ-81.00000°. $M_0$4.78000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.0km az=21.1.
IDC Error ellipse: s-maj=15.5km s-min=12.9km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.2km az=128.0. Recorded [3 JMA] in Miyagi.
ISC III 25 23 54 50.2–.78 35.22N–.06 141.0E–.10 48 3.4b 15 0-148
IDC III 25 23 54 44.1–.80 35.28N 140.61E 0 3.8,3.5 **¶17198579**
JMA III 25 23 54 47.7–.20 35.20N 141.21E 28–4 3.1,3.5
ISCJB III 25 23 54 48.8–.61 35.20N–.06 141.0E–.10 48 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 00 10 58.5–2.1 39.16N–.05 142.36E–.10 25–13 3.5b 23 1-59
ISCJB III 26 00 10 57.1–1.5 39.13N–.04 142.4E–.10 26–8 3.6b **¶17198580**
JMA III 26 00 10 58.4–.10 39.17N 142.40E 30–2 4.1
IDC III 26 00 11 04.8–4.3 39.03N 142.23E 80–39 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=6.6km az=7.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=23.4km az=79.0.
ISC III 26 00 11 50.0–.60 35.12N–.05 141.14E–.09 48 3.8b 33 0-148
IDC III 26 00 11 43.6–.68 35.12N 141.27E 0 4.0,3.8 **¶16480942**
JMA III 26 00 11 46.8–.20 35.20N 141.17E 20 3.3,3.8
ISCJB III 26 00 11 48.2–.45 35.13N–.04 141.12E–.08 48 3.9b,3.8
NEIC III 26 00 11 52.2–1.1 35.24N 141.15E 62–9 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=17.0km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.9km az=14.9.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.0km az=111.0.
JMA III 26 00 15 12.6–.10 35.74N 140.89E 9–1 3.5
NIED III 26 00 15 00 35.70N 140.90E 5 3.7W **¶600567146**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ23.00000°,λ-79.00000°. NP2:ϕ_s147.00000°,δ67.00000°,λ-95.00000°. $M_0$4.25000×10^{14}
ISC III 26 00 42 43.8–2.4 39.27N–.05 142.45E–.09 9–12 3.6b 25 1-59
IDC III 26 00 42 40.6–2.8 39.33N 143.01E 0 3.7,3.6b **¶17198583**
ISCJB III 26 00 42 44.5–1.3 39.27N–.04 142.48E–.08 18–7 3.5b,3.6b
JMA III 26 00 42 46.5–.10 39.28N 142.35E 32–1 3.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=72.2km s-min=31.1km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.1km az=10.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 01 02 47.3–1.1 35.83N–.07 140.9E–.10 31 3.5b 10 0-76
JMA III 26 01 02 45.7–.10 35.87N 141.05E 26–1 2.8 **¶17198585**
IDC III 26 01 02 45.4–3.5 36.25N 140.99E 0 3.6,3.4b
ISCJB III 26 01 02 46.6–.96 35.83N–.05 140.9E–.10 31 3.4b,3.4b
ISC Event type ke.

ISCJB Event type ke.
ISC III 26 01 05 11.7–3.4 38.99N–.05 142.31E–.09 25–23 3.8b 31 1-88
NIED III 26 01 05 00 39.00N 142.40E 26 3.7W **¶16480952**
ISCJB III 26 01 05 11.8–1.1 38.97N–.04 142.35E–.09 40–9 3.7b
JMA III 26 01 05 11.3–.10 38.96N 142.35E 34–2 3.8
IDC III 26 01 05 16.7–2.8 38.93N 142.26E 72–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ22.00000°,λ-151.00000°. NP2:ϕ_s184.00000°,δ80.00000°,λ-71.00000°. $M_0$4.62000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.5km az=20.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=16.5km az=146.0.
ISC III 26 01 09 06.8–.84 38.36N–.06 142.27E–.07 24 3.9b 22 1-64
NIED III 26 01 09 00 38.40N 142.30E 26 3.7W **¶17198588**
IDC III 26 01 09 03.2–.91 38.32N 142.42E 0 3.8,3.7
ISCJB III 26 01 09 05.1–.66 38.37N–.06 142.34E–.06 24 3.7b,3.7
JMA III 26 01 09 06.4–.20 38.43N 142.29E 30–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ41.00000°,λ-155.00000°. NP2:ϕ_s303.00000°,δ74.00000°,λ-51.00000°. $M_0$4.30000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=18.1km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.3km az=172.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 26 01 38 45.1–.10 38.31N 141.98E 44–1 3.6 ¶602695577
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 01 48 44.7–1.5 39.50N–.06 142.2E–.10 50–9 3.8b 20 0-67
ISCJB III 26 01 48 45.2–1.2 39.54N–.06 142.1E–.10 55–5 3.6b **¶17198590**
JMA III 26 01 48 46.1–.10 39.52N 142.10E 48–1 3.3
IDC III 26 01 48 48.9–7.7 39.32N 142.26E 96–51 3.7,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=19.5km s-min=8.7km az=11.8.
JMA Event type fe.
IDC Error ellipse: s-maj=96.7km s-min=25.3km az=72.0.
ISC III 26 02 57 12.8–1.3 39.11N–.06 142.5E–.10 20–7 3.6b 18 1-59
ISCJB III 26 02 57 12.3–1.8 39.15N–.06 142.6E–.10 27–10 3.9s,3.6b **¶17198595**
JMA III 26 02 57 13.8–.10 39.15N 142.48E 30–1 3.7,3.6b
IDC III 26 02 57 19.5–4.7 39.06N 142.39E 80–44 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.7km s-min=9.5km az=172.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.9km s-min=28.7km az=73.0.
ISC III 26 03 00 25.4–1.9 37.29N–.07 141.4E–.10 44–15 3.7b 13 1-57
IDC III 26 03 00 20.7–2.8 37.70N 141.48E 0 3.6,3.5b **¶17198596**
JMA III 26 03 00 26.5–.10 37.32N 141.27E 50–1 3.3,3.5b
ISCJB III 26 03 00 26.0–1.1 37.33N–.05 141.3E–.10 51–8 3.5b,3.5b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 26 03 33 35.4–2.0 37.17N–.04 141.83E–.08 6–11 3.6b 24 1-61
NIED III 26 03 33 00 37.20N 141.60E 47 3.8W **¶17198599**
IDC III 26 03 33 33.4–2.2 37.25N 142.11E 0 3.7,3.6
ISCJB III 26 03 33 36.6–1.5 37.13N–.04 141.81E–.08 23–8 3.6b,3.6
JMA III 26 03 33 40.1–.20 37.17N 141.62E 44–2 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ37.00000°,λ136.00000°. NP2:ϕ_s219.00000°,δ65.00000°,λ61.00000°. $M_0$5.84000×10^{14}
IDC Error ellipse: s-maj=56.0km s-min=20.9km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.5km az=176.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 03 56 00.3–1.4 38.33N–.05 142.12E–.06 19–4 3.5b 20 1-89
IDC III 26 03 55 58.0–1.0 38.20N 142.60E 0 3.7,3.7L **¶17198603**
ISCJB III 26 03 56 00.2–1.4 38.32N–.05 142.22E–.07 26–9 3.4b,3.7L
NIED III 26 03 56 00 38.40N 142.10E 41 3.8W,3.7L
JMA III 26 03 56 01.8–.20 38.37N 142.14E 34–2 3.9,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=21.5km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=8.5km az=173.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ39.00000°,λ-26.00000°. NP2:ϕ_s249.00000°,δ74.00000°,λ-126.00000°. $M_0$6.25000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 26 05 02 32.7–1.1 36.43N–.08 140.74E–.08 48–7 3.7b 31 0-162
NIED III 26 05 02 00 36.40N 140.70E 56 3.7W **¶602695368**
ISCJB III 26 05 02 31.9–.77 36.42N–.07 140.74E–.08 55–4 3.6b,3.3s
JMA III 26 05 02 32.8–.10 36.43N 140.69E 52–1 3.7,3.3s
IDC III 26 05 02 34.6–3.0 36.41N 140.60E 65–26 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ98.00000°. NP2:ϕ_s9.00000°,δ69.00000°,λ87.00000°. $M_0$4.53000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.4km az=137.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s26.00000°,δ63.00000°,λ94.00000°. NP2:ϕ_s197.00000°,δ27.00000°,λ82.00000°. Principal axes: T Plg72.0000°,Azm306.0000°; N Plg4.0000°,Azm204.0000°; P Plg18.0000°,Azm113.0000°
IDC Error ellipse: s-maj=23.4km s-min=20.0km az=176.0.
ISC III 26 05 20 20.1–2.7 38.79N–.07 142.5E–.10 2–16 3.5b 16 1-63
NIED III 26 05 20 00 38.80N 142.50E 62 4.5W **¶602695333**
JMA III 26 05 20 21.8–.20 38.81N 142.54E 29–3 3.9
ISCJB III 26 05 20 21.7–1.9 38.84N–.06 142.5E–.10 21–10 3.3b
IDC III 26 05 20 37.7–3.1 38.59N 141.39E 114–30 3.5,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ22.00000°,λ-10.00000°. NP2:ϕ_s130.00000°,δ86.00000°,λ-111.00000°. $M_0$5.93000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=8.7km az=22.2.
IDC Error ellipse: s-maj=33.2km s-min=22.9km az=72.0.
JMA III 26 05 42 38.4–.10 39.23N 142.42E 30–1 3.7 ¶603145337
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 06 35 35.2–2.3 38.18N–.08 142.0E–.20 47–21 3.6b 28 1-146
ISCJB III 26 06 35 34.8–1.2 38.18N–.06 142.0E–.10 59–9 3.6b **¶17198610**
JMA III 26 06 35 35.1–.10 38.15N 141.95E 50–1 4.0
IDC III 26 06 35 37.9–3.3 38.11N 141.85E 75–31 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.5km s-min=8.0km az=25.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=20.4km az=109.0.
ISC III 26 06 55 13.7–1.9 36.51N–.06 140.95E–.08 11–10 3.6b 19 0-91
NIED III 26 06 55 00 36.50N 141.00E 5 3.8W **¶17198611**
ISCJB III 26 06 55 11.5–1.3 36.46N–.05 141.06E–.06 5–6 3.5b
JMA III 26 06 55 13.2 36.51N 140.98E 16–1 3.7
IDC III 26 06 55 19.2–3.5 36.36N 140.69E 50–34 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ48.00000°,λ-50.00000°. NP2:ϕ_s153.00000°,δ55.00000°,λ-125.00000°. $M_0$5.02000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.4km az=145.5.
JMA Event type fe.
IDC Error ellipse: s-maj=26.1km s-min=22.5km az=41.0.
JMA III 26 07 00 08.4–.10 38.68N 142.04E 38–1 3.6 ¶602695006
ISC III 26 07 18 35.7–1.2 35.82N–.05 140.83E–.07 5–9 3.6b 16 0-65
JMA III 26 07 18 34.9–.10 35.82N 140.91E 10–1 3.7 **¶602443893**
ISCJB III 26 07 18 35.0–.97 35.86N–.04 140.91E–.06 6–6 4.0s,3.5b
IDC III 26 07 18 36.2–14 35.81N 140.78E 0 4.0,4.0s
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.8km az=167.7.
IDC Error ellipse: s-maj=373.1km s-min=27.9km az=173.0.
ISC III 26 07 19 31.2–1.2 36.50N–.05 141.11E–.04 8–6 4.7b,4.1s 178 0-147
NIED III 26 07 19 00 36.60N 141.00E 5 4.6W,4.1s **¶16480985**
ISCJB III 26 07 19 28.9–.81 36.40N–.04 141.14E–.03 2–4 4.6b,4.1s

IDC III 26 07 19 29.2–.51 36.48N 141.01E 0 4.7L,4.4
JMA III 26 07 19 32.0 36.57N 141.01E 24–1 4.6,4.4
BJI III 26 07 19 33.7 36.22N 141.40E 42 4.9b,4.6b
NEIC III 26 07 19 35.2–.81 36.36N 141.06E 36–7 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ55.00000°,λ-139.00000°. NP2:ϕ_s198.00000°,δ58.00000°,λ-42.00000°. $M_0$8.82000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.5km az=163.7.
IDC Error ellipse: s-maj=14.0km s-min=12.7km az=130.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=5.1km az=148.0. Recorded [3 JMA] in Ibaraki.
JMA III 26 07 29 19.7–.10 38.72N 142.18E 32–1 3.6 ¶602694949
JMA Event type fe.
ISC III 26 07 52 32.2–1.7 36.49N–.05 140.98E–.05 10–10 4.5b 100 0-147
NIED III 26 07 52 00 36.50N 141.10E 5 4.1W **¶602695784**
IDC III 26 07 52 29.7–.56 36.49N 140.96E 0 4.3L,4.2
JMA III 26 07 52 32.5 36.56N 141.01E 25–1 4.4,4.2
NEIC III 26 07 52 37.2–.64 36.45N 140.80E 48–6 4.6b,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ58.00000°,λ-143.00000°. NP2:ϕ_s200.00000°,δ59.00000°,λ-38.00000°. $M_0$1.68000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.6km az=68.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=113.0. Recorded [3 JMA] in Ibaraki.
ISC III 26 07 56 30.9–1.4 36.51N–.03 141.08E–.05 7–8 4.5b,3.8s 74 0-147
NIED III 26 07 56 00 36.50N 141.00E 5 4.3W,3.8s **¶16361366**
IDC III 26 07 56 29.1–.58 36.44N 140.92E 0 4.6L,4.1
JMA III 26 07 56 31.9 36.55N 141.01E 25–1 4.5,4.1
BJI III 26 07 56 33.0 36.36N 140.77E 28 4.9b,4.5b
ISCJB III 26 07 56 34.9–.88 36.56N–.03 140.60E–.05 13–5 4.5b,3.8s
NEIC III 26 07 56 42.1–.83 36.61N 140.18E 65–9 4.6b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ57.00000°,λ-167.00000°. NP2:ϕ_s226.00000°,δ79.00000°,λ-33.00000°. $M_0$2.96000×10^{15}
IDC Error ellipse: s-maj=16.8km s-min=14.7km az=82.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=31.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=174.0.
ISC III 26 08 23 34.2–1.8 36.55N–.06 141.00E–.07 15–10 3.7b 18 0-78
IDC III 26 08 23 31.5–.92 36.46N 140.99E 0 3.8,3.7L **¶600567507**
ISCJB III 26 08 23 33.3–1.2 36.51N–.06 141.08E–.07 23–7 3.6b,3.7L
JMA III 26 08 23 34.5–.10 36.56N 141.01E 23–1 3.9,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=22.1km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.2km az=140.9.
JMA Event type fe.
ISC III 26 09 45 59.0–.82 35.84N–.06 141.78E–.07 23 3.6b 19 1-147
IDC III 26 09 45 55.3–.86 35.80N 141.82E 0 3.8,3.6 **¶17198626**
ISCJB III 26 09 45 57.0–.72 35.79N–.06 141.88E–.07 23 3.5b,3.6
JMA III 26 09 45 58.6–.30 35.93N 141.76E 30–3 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=20.1km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.5km az=138.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 26 10 18 34.4–.29 38.56N–.03 141.86E–.03 43–2 5.1b,4.7s 1188 0-160
NIED III 26 10 18 00 38.60N 141.90E 53 5.3W,4.7s **¶16455732**
BJI III 26 10 18 29.1 38.37N 142.16E 37 5.2b,5.1b
MOS III 26 10 18 33.7–.81 38.80N 141.71E 38 5.4b,4.5s
JMA III 26 10 18 34.8–.10 38.57N 141.89E 49–1 5.2,4.5s
ISCJB III 26 10 18 34.7–.30 38.57N–.02 141.77E–.02 56–2 5.1b,4.6s
IDC III 26 10 18 36.3–1.8 38.56N 141.76E 58–16 5.0,4.8
NEIC III 26 10 18 36.7–.43 38.58N 141.74E 59–4 5.0b,4.8
GCMT III 26 10 18 36.7–.10 38.60N 141.93E 52–0 5.3W,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ22.00000°,λ85.00000°. NP2:ϕ_s21.00000°,δ68.00000°,λ92.00000°. $M_0$9.78000×10^{16}
MOS Error ellipse: s-maj=6.0km s-min=3.6km az=102.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s21.00000°,δ54.00000°,λ96.00000°. NP2:ϕ_s191.00000°,δ36.00000°,λ82.00000°. Principal axes: T Plg80.0000°,Azm316.0000°; N Plg5.0000°,Azm198.0000°; P Plg9.0000°,Azm107.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=156.8.
IDC Error ellipse: s-maj=11.1km s-min=9.7km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=145.0. Recorded [4 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c156; s108,c211; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.77±.01; $M_{r\theta}$0.20±.01; $M_{\theta\phi}$-0.18±.01; $M_{\phi r}$0.64±.01; Best double couple: NP1:ϕ_s16.00000°,δ64.00000°,λ92.00000°. NP2:ϕ_s193.00000°,δ26.00000°,λ87.00000°. Principal axes: T 1.1130,Plg71.0000°,Azm290.0000°; N -0.0590,Plg2.0000°,Azm196.0000°; P -1.0540,Plg19.0000°,Azm105.0000° $M_0$1.08400×10^{17}
ISC III 26 10 23 39.0–1.6 37.56N–.04 141.80E–.05 4–9 4.6b 97 1-146
NIED III 26 10 23 00 37.50N 141.80E 11 4.4W **¶16362929**
BJI III 26 10 23 36.4 37.50N 142.44E 26 5.0b,4.5b
ISCJB III 26 10 23 38.5–1.4 37.53N–.03 141.83E–.03 9–8 4.4b,4.1s
JMA III 26 10 23 40.0–.10 37.52N 141.78E 22–2 4.6,4.1s
NEIC III 26 10 23 43.9–.62 37.56N 141.73E 36–6 4.7b,4.1s
IDC III 26 10 23 45.1–2.4 37.57N 141.68E 47–23 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ57.00000°,λ-37.00000°. NP2:ϕ_s204.00000°,δ60.00000°,λ-141.00000°. $M_0$5.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=157.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=136.0.
IDC Error ellipse: s-maj=16.7km s-min=13.4km az=111.0.
ISC III 26 10 28 22.9–1.0 36.93N–.03 140.53E–.04 9–7 3.8b 26 0-147
IDC III 26 10 28 21.8–.83 36.90N 140.50E 0 3.9,3.7 **¶602694868**
ISCJB III 26 10 28 22.7–.52 36.91N–.03 140.60E–.05 18–4 3.7b,3.7
JMA III 26 10 28 23.0 36.93N 140.53E 4–2 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=14.5km az=166.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=16.1.
JMA Event type fe.
ISC III 26 10 30 04.5–1.6 36.59N–.05 140.98E–.06 16–9 3.9b 31 0-147
NIED III 26 10 30 00 36.50N 141.00E 8 3.9W **¶16373237**
ISCJB III 26 10 30 03.3–1.1 36.54N–.04 141.08E–.06 19–7 3.7b
JMA III 26 10 30 04.0–.10 36.56N 141.01E 24–1 3.9
IDC III 26 10 30 09.9–2.2 36.44N 140.75E 65–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ51.00000°,λ-127.00000°. NP2:ϕ_s195.00000°,δ52.00000°,λ-53.00000°. $M_0$8.62000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.4km az=31.3.
JMA Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=13.7km az=92.0.
ISC III 26 10 35 45.9–2.1 37.53N–.05 141.75E–.07 11–12 3.9b 42 1-146
NIED III 26 10 35 00 37.50N 141.80E 11 3.9W **¶16481003**
IDC III 26 10 35 44.2–.64 37.51N 141.71E 0 4.0,3.9
ISCJB III 26 10 35 44.6–1.2 37.48N–.04 141.90E–.06 15–8 3.9b,3.9
JMA III 26 10 35 46.1–.20 37.52N 141.80E 22–2 4.1,3.9
NEIC III 26 10 35 49.6–1.2 37.53N 141.77E 37–10 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ56.00000°,λ-141.00000°. NP2:ϕ_s91.00000°,δ59.00000°,λ-41.00000°. $M_0$7.17000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=14.9km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.1km az=24.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.8km az=129.0.

ISC III 26 10 42 25.1–.36 36.22N–.03 141.47E–.04 27–2 4.7b,4.1s 342 1-147
BJI III 26 10 42 23.2 36.11N 141.46E 32 5.0b,4.9b **¶16361183**
JMA III 26 10 42 24.1–.10 36.21N 141.54E 58–3 4.7,4.9b
ISCJB III 26 10 42 25.1–.41 36.21N–.02 141.46E–.03 38–3 4.7b,4.1s
NEIC III 26 10 42 26.1–.62 36.25N 141.43E 31–4 4.8b,4.1s
IDC III 26 10 42 27.1–1.6 36.15N 141.49E 45–15 4.6,4.5L
MOS III 26 10 42 27.5–.83 36.58N 141.29E 42 5.1b,4.5L
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=28.2.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.5km az=151.0.
IDC Error ellipse: s-maj=13.4km s-min=9.5km az=90.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=109.0.
ISC III 26 10 54 32.8–1.2 36.54N–.05 140.97E–.07 10 3.8b 19 0-91
NIED III 26 10 54 00 36.60N 141.00E 8 3.8W **¶602694840**
JMA III 26 10 54 31.5 36.56N 141.01E 25–1 4.0
IDC III 26 10 54 32.2–.75 36.01N 140.84E 0 3.8,3.7
ISCJB III 26 10 54 34.5–.64 36.60N–.04 140.85E–.05 10 3.7b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ52.00000°,λ-138.00000°. NP2:ϕ_s193.00000°,δ59.00000°,λ-47.00000°. $M_0$5.23000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC III 26 11 14 09.1–2.8 36.35N–.06 141.76E–.07 8–17 3.6b 21 1-75
NIED III 26 11 14 00 36.40N 141.60E 26 3.8W **¶17198632**
IDC III 26 11 14 08.0–1.1 36.34N 141.81E 0 3.9,3.9L
JMA III 26 11 14 12.6–.10 36.40N 141.63E 57–4 3.8,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ24.00000°,λ-43.00000°. NP2:ϕ_s228.00000°,δ74.00000°,λ-108.00000°. $M_0$4.76000×10^{14}
IDC Error ellipse: s-maj=23.7km s-min=22.5km az=1.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 11 28 56.5–1.6 39.13N–.07 142.4E–.10 27 11 1-59
IDC III 26 11 28 49.6–3.1 39.31N 143.03E 0 3.6,3.4 **¶17198633**
ISCJB III 26 11 28 55.5–1.4 39.10N–.06 142.5E–.10 27 3.4b,3.4
JMA III 26 11 28 57.1–.20 39.11N 142.38E 33–2 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=71.3km s-min=40.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=8.2km az=0.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 26 12 40 27.2–1.0 36.79N–.03 140.39E–.04 10–9 3.6b 22 0-60
IDC III 26 12 40 25.4–1.4 36.82N 140.46E 0 3.6,3.6b **¶17198641**
ISCJB III 26 12 40 26.9–.51 36.77N–.03 140.46E–.05 20–5 3.5b,3.6b
JMA III 26 12 40 27.2–.10 36.80N 140.42E 3–2 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=16.6km az=9.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=179.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s135.00000°,δ87.00000°,λ-90.00000°. NP2:ϕ_s315.00000°,δ3.00000°,λ-90.00000°. Principal axes: T Plg42.0000°,Azm225.0000°; N Plg0.0000°,Azm135.0000°; P Plg48.0000°,Azm45.0000°
JMA III 26 13 20 33.3–.20 37.58N 141.81E 28–3 3.5 ¶602695284
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 26 13 35 12.1–.10 37.61N 141.70E 45–2 3.6 ¶602695243
ISC III 26 13 59 41.3–.94 36.52N–.07 141.35E–.08 32 3.4b 15 1-64
ISCJB III 26 13 59 39.6–.76 36.46N–.06 141.42E–.07 32 3.4b **¶600567758**
JMA III 26 13 59 41.5–.20 36.47N 141.24E 48–3 3.3
IDC III 26 13 59 44.6–2.6 36.38N 141.24E 64–26 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.8km az=13.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=11.9km az=65.0.
ISC III 26 14 04 39.4–1.0 36.79N–.03 140.58E–.05 9–6 3.7b 32 0-91
NIED III 26 14 04 00 36.80N 140.60E 8 3.7W **¶600567761**
IDC III 26 14 04 37.9–.66 36.74N 140.53E 0 3.9,3.8
ISCJB III 26 14 04 38.8–.56 36.77N–.03 140.61E–.06 16–4 3.7s,3.6b
JMA III 26 14 04 39.3 36.80N 140.56E 6–1 4.0,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ28.00000°,λ-133.00000°. NP2:ϕ_s185.00000°,δ70.00000°,λ-70.00000°. $M_0$3.97000×10^{14}
IDC Error ellipse: s-maj=15.6km s-min=12.1km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=12.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s177.00000°,δ52.00000°,λ-74.00000°. NP2:ϕ_s332.00000°,δ41.00000°,λ-110.00000°. Principal axes: T Plg6.0000°,Azm256.0000°; N Plg13.0000°,Azm347.0000°; P Plg76.0000°,Azm142.0000°
ISC III 26 14 10 59.4–.96 36.75N–.04 140.51E–.05 9–6 4.3b 50 0-91
NIED III 26 14 10 00 36.70N 140.70E 5 4.0W **¶602443905**
IDC III 26 14 10 57.9–.56 36.71N 140.60E 0 4.3,4.2
ISCJB III 26 14 10 59.0–.51 36.72N–.04 140.57E–.06 19–3 4.2b,3.0s
JMA III 26 14 10 59.6 36.73N 140.65E 7–1 4.3,3.0s
NEIC III 26 14 11 04.2–1.2 36.74N 140.42E 46–10 4.5b,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ38.00000°,λ-85.00000°. NP2:ϕ_s153.00000°,δ52.00000°,λ-94.00000°. $M_0$1.20000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=11.0km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.6km az=33.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ49.00000°,λ-90.00000°. NP2:ϕ_s156.00000°,δ41.00000°,λ-90.00000°. Principal axes: T Plg4.0000°,Azm66.0000°; N Plg0.0000°,Azm156.0000°; P Plg86.0000°,Azm246.0000°
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=8.7km az=103.0. Recorded [4 JMA] in Ibaraki.
ISC III 26 14 15 10.7–1.1 36.93N–.04 141.13E–.07 45–9 3.9b 40 0-147
NIED III 26 14 15 00 36.90N 141.10E 56 4.1W **¶17198644**
ISCJB III 26 14 15 09.9–.64 36.90N–.04 141.13E–.07 56–5 3.8b,3.5s
JMA III 26 14 15 11.3–.10 36.95N 141.08E 49–1 3.8,3.5s
IDC III 26 14 15 11.5–2.0 36.91N 140.98E 52–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ22.00000°,λ107.00000°. NP2:ϕ_s33.00000°,δ69.00000°,λ83.00000°. $M_0$1.61000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.7km az=13.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=11.5km az=85.0.
ISC III 26 14 19 07.0–.92 36.75N–.03 140.52E–.04 10–6 4.0b 43 0-91
NIED III 26 14 19 00 36.70N 140.70E 5 3.8W **¶16459600**
ISCJB III 26 14 19 06.1–.67 36.70N–.03 140.73E–.05 19–4 4.0b,2.7s
JMA III 26 14 19 07.1 36.73N 140.65E 7–1 4.1,2.7s
IDC III 26 14 19 11.3–1.9 36.67N 140.47E 44–18 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ40.00000°,λ-102.00000°. NP2:ϕ_s168.00000°,δ51.00000°,λ-80.00000°. $M_0$6.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=24.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s312.00000°,δ56.00000°,λ-102.00000°. NP2:ϕ_s152.00000°,δ36.00000°,λ-73.00000°. Principal axes: T Plg10.0000°,Azm50.0000°; N Plg10.0000°,Azm318.0000°; P Plg76.0000°,Azm185.0000°
IDC Error ellipse: s-maj=18.2km s-min=11.0km az=73.0.
ISC III 26 15 01 51.0–1.1 36.97N–.04 141.13E–.08 47–9 3.7b 35 0-90
NIED III 26 15 01 00 37.00N 141.10E 56 3.9W **¶17198650**
ISCJB III 26 15 01 50.0–.67 36.94N–.04 141.16E–.07 55–5 3.7b
JMA III 26 15 01 51.3–.10 36.95N 141.07E 51–1 3.9
IDC III 26 15 01 52.6–2.1 36.93N 140.93E 63–21 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ21.00000°,λ75.00000°. NP2:ϕ_s27.00000°,δ70.00000°,λ95.00000°. $M_0$6.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.0km az=18.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.5km s-min=13.2km az=83.0.

ISC III 26 15 11 10.7–1.8 38.17N–.07 141.8E–.10 51–12 3.6b 24 0-79
NIED III 26 15 11 00 38.20N 141.70E 62 3.7W **¶602694534**
IDC III 26 15 11 02.0–1.8 38.39N 142.36E 0 3.7,3.7b
ISCJB III 26 15 11 10.3–1.1 38.18N–.05 141.7E–.10 61–6 3.5b,3.7b
JMA III 26 15 11 11.4–.10 38.17N 141.69E 50–1 3.5,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ27.00000°,λ-175.00000°. NP2:ϕ_s176.00000°,δ88.00000°,λ-63.00000°. $M_0$4.24000×10^{14}
IDC Error ellipse: s-maj=47.2km s-min=26.0km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=8.0km az=21.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 15 29 17.2–.64 39.05N–.06 142.99E–.06 16 4.1b,3.7s 57 1-84
NIED III 26 15 29 00 39.10N 143.00E 23 4.2W,3.7s **¶16459601**
ISCJB III 26 15 29 15.3–.42 39.05N–.04 143.13E–.05 16 4.0b,3.5s
JMA III 26 15 29 18.1–.10 39.08N 143.01E 25–3 4.2,3.5s
NEIC III 26 15 29 20.6–1.1 39.08N 142.94E 41–9 4.7b,3.5s
IDC III 26 15 29 21.0–2.1 39.00N 142.97E 45–20 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ4.00000°,λ25.00000°. NP2:ϕ_s9.00000°,δ88.00000°,λ94.00000°. $M_0$2.59000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=144.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=7.5km az=124.0.
IDC Error ellipse: s-maj=16.0km s-min=13.1km az=115.0.
ISC III 26 16 06 50.4–.77 36.38N–.04 141.17E–.04 31–4 4.5b,3.7s 142 1-147
NIED III 26 16 06 00 36.40N 141.10E 29 4.4W,3.7s **¶602694139**
IDC III 26 16 06 45.8–.50 36.37N 141.17E 0 4.6L,4.3
NEIC III 26 16 06 48.4–3.3 36.36N 141.03E 17–20 4.7b,4.3
ISCJB III 26 16 06 49.0–.53 36.33N–.03 141.19E–.04 33–4 4.5b,3.8s
BJI III 26 16 06 49.7 36.17N 141.15E 42 5.0b,4.5b
JMA III 26 16 06 50.5–.10 36.42N 141.12E 46–2 4.4,4.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ32.00000°,λ-6.00000°. NP2:ϕ_s308.00000°,δ87.00000°,λ-122.00000°. $M_0$4.21000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.8km az=123.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.9km az=30.1.
JMA Event type fe.
ISC III 26 16 09 53.3–1.2 36.23N–.09 141.5E–.10 10 3.6b 11 3-75
IDC III 26 16 09 51.3–1.8 36.49N 141.65E 0 3.6,3.6 **¶17198655**
ISC Event type ke.
IDC Error ellipse: s-maj=51.7km s-min=20.2km az=69.0.
ISC III 26 16 20 06.1–1.1 39.83N–.04 142.22E–.09 49–8 4.1b,3.8s 43 0-88
NIED III 26 16 20 00 39.90N 142.20E 47 4.3W,3.8s **¶17198657**
ISCJB III 26 16 20 05.4–.72 39.85N–.04 142.22E–.09 56–4 3.9b,3.8s
JMA III 26 16 20 06.7–.10 39.87N 142.17E 47–1 4.0,3.8s
IDC III 26 16 20 08.1–2.2 39.77N 142.12E 68–20 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ12.00000°,λ77.00000°. NP2:ϕ_s12.00000°,δ78.00000°,λ93.00000°. $M_0$3.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.5km az=178.1.
JMA Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=11.9km az=89.0.
ISC III 26 17 15 49.4–.85 36.70N–.05 141.60E–.08 22–6 3.5b 34 1-75
NIED III 26 17 15 00 36.70N 141.50E 41 3.8W **¶17198662**
JMA III 26 17 15 50.9–.10 36.69N 141.45E 51–2 3.9
IDC III 26 17 15 52.5–2.4 36.67N 141.52E 48–25 3.6,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ10.00000°,λ-175.00000°. NP2:ϕ_s148.00000°,δ89.00000°,λ-80.00000°. $M_0$6.17000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=16.2km az=88.0.
ISC III 26 17 21 54.2–1.5 35.41N–.06 141.4E–.10 25 3.5b 15 1-59
JMA III 26 17 21 51.9–.20 35.48N 141.49E 13–3 3.0 **¶602694009**
IDC III 26 17 21 51.0–1.9 35.24N 141.49E 0 4.1,4.1s
ISCJB III 26 17 21 52.2–1.2 35.38N–.06 141.5E–.10 25 3.5b,4.1s
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 17 30 50.7–1.8 36.56N–.05 141.35E–.08 26–12 3.8b 31 1-147
NIED III 26 17 30 00 36.60N 141.20E 29 3.7W **¶17198664**
ISCJB III 26 17 30 50.9–1.0 36.53N–.05 141.35E–.08 42–8 3.8b
JMA III 26 17 30 52.2–.10 36.57N 141.20E 46–2 3.8
IDC III 26 17 30 53.8–2.7 36.47N 141.33E 54–24 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ9.00000°,λ-61.00000°. NP2:ϕ_s227.00000°,δ82.00000°,λ-94.00000°. $M_0$4.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=7.9km az=14.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=13.7km az=68.0.
ISC III 26 17 32 15.5–.36 35.68N–.04 141.11E–.04 33 4.5b,3.7s 170 0-149
NIED III 26 17 32 00 35.80N 141.10E 53 4.5W,3.7s **¶16362937**
BJI III 26 17 32 13.3 35.53N 141.19E 43 5.0b,4.6b
ISCJB III 26 17 32 14.0–.22 35.66N–.03 141.09E–.04 33 4.5b,3.8s
JMA III 26 17 32 16.0–.20 35.76N 141.06E 36–1 4.4,3.8s
NEIC III 26 17 32 17.7–.58 35.67N 140.96E 51–5 4.7b,3.8s
IDC III 26 17 32 18.0–1.6 35.70N 140.99E 52–15 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ8.00000°,λ161.00000°. NP2:ϕ_s347.00000°,δ87.00000°,λ82.00000°. $M_0$6.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=4.0km az=137.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=4.3km az=121.0.
IDC Error ellipse: s-maj=12.9km s-min=9.0km az=88.0.
ISC III 26 17 36 57.3–1.3 35.75N–.07 141.1E–.10 26 3.5b 16 0-59
IDC III 26 17 36 52.0–2.2 35.77N 141.54E 0 3.6,3.5 **¶600567974**
ISCJB III 26 17 36 55.5–.98 35.69N–.06 141.2E–.10 26 3.4b,3.5
JMA III 26 17 36 58.4–.10 35.76N 141.02E 36–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=61.8km s-min=19.6km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.2km az=156.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 17 59 33.2–1.4 37.32N–.04 141.66E–.08 43–12 3.5b 45 1-90
ISCJB III 26 17 59 32.7–.78 37.30N–.03 141.61E–.08 54–6 3.6b **¶17198666**
JMA III 26 17 59 33.9–.10 37.35N 141.55E 46–2 4.0
IDC III 26 17 59 34.8–2.4 37.39N 141.54E 54–22 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.3km az=13.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=14.4km az=102.0.
ISC III 26 18 11 01.1–2.1 38.32N–.05 142.02E–.07 9–12 3.5b 26 1-89
IDC III 26 18 10 59.7–.75 38.25N 142.05E 0 3.7,3.6L **¶17198668**
NIED III 26 18 11 00 38.30N 142.00E 11 3.7W,3.6L
ISCJB III 26 18 11 00.3–1.7 38.27N–.04 142.11E–.09 16–11 3.5b,3.4s
JMA III 26 18 11 02.7–.10 38.34N 141.99E 25–1 3.8,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=15.1km az=114.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ40.00000°,λ-130.00000°. NP2:ϕ_s164.00000°,δ60.00000°,λ-61.00000°. $M_0$4.64000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=6.1km az=21.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 19 22 04.2–.60 36.72N–.04 141.71E–.04 34–1 4.7b,3.9s 355 1-147
IDC III 26 19 21 58.9–.48 36.70N 141.66E 0 4.5,4.4 **¶600568085**
NIED III 26 19 22 00 36.70N 141.90E 35 4.7W,4.4
ISCJB III 26 19 22 01.8–.84 36.69N–.02 141.77E–.03 29–5 4.7b,4.0s
BJI III 26 19 22 01.6 36.74N 141.82E 39 4.9b,4.8b
JMA III 26 19 22 01.6–.30 36.73N 141.86E 40 4.5,4.8b
MOS III 26 19 22 04.6–.75 37.03N 141.57E 35 5.0b,4.8b
NEIC III 26 19 22 05.5–.63 36.73N 141.64E 44–5 4.7b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=10.9km az=103.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ23.00000°,λ106.00000°. NP2:ϕ_s19.00000°,δ68.00000°,λ83.00000°. $M_0$1.07000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=36.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=109.1.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=134.0.
JMA III 26 19 51 41.8–.10 35.25N 141.19E 26–4 2.6
¶602693795
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 19 52 53.6–.86 36.05N–.06 140.28E–.09 50 3.5b 15 0-87
NIED III 26 19 52 00 36.00N 140.30E 68 3.7W **¶17198679**
IDC III 26 19 52 47.7–1.0 36.02N 140.30E 0 3.8,3.6
ISCJB III 26 19 52 52.0–.68 36.01N–.05 140.30E–.10 50 3.9s,3.6b
JMA III 26 19 52 52.4–.10 36.00N 140.29E 41–1 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ10.00000°,λ-114.00000°. NP2:ϕ_s244.00000°,δ81.00000°,λ-86.00000°. $M_0$3.71000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=16.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=6.9km az=165.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s54.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s226.00000°,δ14.00000°,λ83.00000°. Principal axes: T Plg59.0000°,Azm326.0000°; N Plg2.0000°,Azm233.0000°; P Plg31.0000°,Azm142.0000°
JMA III 26 20 07 13.2–.20 36.87N 141.92E 47 3.5
¶602693767
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 20 23 27.6–1.6 37.44N–.04 141.46E–.06 13–9 3.9b 37 1-68
NIED III 26 20 23 00 37.40N 141.30E 14 3.5W **¶16481067**
IDC III 26 20 23 25.6–1.2 37.55N 141.50E 0 3.9,3.9
JMA III 26 20 23 29.7–.10 37.43N 141.32E 26–1 3.8,3.9
NEIC III 26 20 23 31.4–1.0 37.47N 141.39E 36–9 4.1b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ5.00000°,λ-116.00000°. NP2:ϕ_s226.00000°,δ86.00000°,λ-88.00000°. $M_0$1.96000×10^{14}
IDC Error ellipse: s-maj=33.2km s-min=21.7km az=93.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.7km az=110.0.
ISC III 26 20 27 47.4–1.9 37.43N–.04 141.63E–.08 24–13 25 1-57
IDC III 26 20 27 43.2–2.8 37.45N 141.84E 0 3.6,3.6L **¶17198681**
ISCJB III 26 20 27 46.6–1.2 37.41N–.03 141.66E–.07 26–6 3.2b,3.6L
JMA III 26 20 27 48.9–.10 37.44N 141.53E 41–2 4.0,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=29.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=10.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 26 20 30 18.9–.10 36.48N 140.50E 56–1 3.5
NIED III 26 20 30 00 36.50N 140.50E 65 3.5W **¶600568151**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s304.00000°,δ79.00000°,λ70.00000°. NP2: ϕ_s186.00000°,δ23.00000°,λ150.00000°. Principal axes: T Plg52.0000°,Azm191.0000° ; N Plg19.0000°,Azm308.0000°; P Plg31.0000°,Azm50.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ10.00000°,λ48.00000°. NP2:ϕ_s313.00000°,δ83.00000°,λ97.00000°. $M_0$1.83000×10^{14}
JMA III 26 21 00 06.5–.30 36.73N 141.91E 36 3.6
NIED III 26 21 00 00 36.70N 141.90E 38 3.7W **¶602693716**
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ18.00000°,λ85.00000°. NP2:ϕ_s36.00000°,δ72.00000°,λ92.00000°. $M_0$3.49000×10^{14}
ISC III 26 21 01 40.0–1.6 36.83N–.06 141.05E–.10 30–9 3.4b 18 0-61
IDC III 26 21 01 33.9–2.5 37.03N 141.60E 0 3.5,3.3 **¶17198685**
JMA III 26 21 01 39.0–.10 36.84N 141.14E 33–1 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=67.0km s-min=25.4km az=58.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 21 34 11.5–1.7 36.69N–.05 142.0E–.10 19 3.5b 16 1-47
IDC III 26 21 34 03.1–12 36.05N 142.71E 0 3.5,3.5 **¶17198689**
ISCJB III 26 21 34 11.7–1.4 36.62N–.06 142.0E–.10 19 3.4b,3.5
JMA III 26 21 34 13.1–.30 36.62N 141.93E 36 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=243.3km s-min=83.3km az=157.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=7.3km az=16.3.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA III 26 21 37 22.0–.10 38.34N 142.09E 36–1 3.5
¶602694426
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 26 21 41 48.9–.10 39.03N 142.44E 31–2 3.5
¶602694418
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 22 24 51.6–2.1 36.62N–.04 141.96E–.07 1–13 3.6b 26 1-75
NIED III 26 22 24 00 36.60N 141.80E 35 3.8W **¶17198690**
IDC III 26 22 24 51.8–.91 36.57N 142.01E 0 3.8,3.6L
ISCJB III 26 22 24 53.4–1.4 36.61N–.04 141.97E–.07 20–9 3.5b,3.6L
JMA III 26 22 24 56.0–.20 36.63N 141.83E 46–5 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ60.00000°,λ-30.00000°. NP2:ϕ_s260.00000°,δ65.00000°,λ-146.00000°. $M_0$6.27000×10^{14}
IDC Error ellipse: s-maj=25.0km s-min=20.8km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.8km az=165.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 26 22 27 52.6–.30 38.13N 142.99E 11–4 3.7
NIED III 26 22 27 00 38.10N 143.00E 5 3.5W **¶600568288**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ45.00000°,λ-108.00000°. NP2:ϕ_s347.00000°,δ48.00000°,λ-73.00000°. $M_0$2.12000×10^{14}
ISC III 26 22 47 42.7–2.9 37.37N–.08 141.7E–.10 28–14 14 1-44
IDC III 26 22 47 36.4–13 37.74N 142.03E 0 3.4b,3.3 **¶602694286**
JMA III 26 22 47 45.1–.10 37.39N 141.52E 26–2 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=225.4km s-min=58.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 23 32 12.3–2.4 37.26N–.07 141.6E–.10 29–12 19 1-44
IDC III 26 23 31 55.8–10 36.42N 143.02E 0 3.3,3.3b **¶17198695**
ISCJB III 26 23 32 13.2–1.5 37.24N–.05 141.5E–.10 46–11 3.1b,3.3b
JMA III 26 23 32 14.8–.10 37.27N 141.38E 47–1 3.1,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=171.6km s-min=82.8km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=7.1km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 26 23 39 01.5–10 36.08N 141.20E 0 4.0,4.0s
¶17198696
IDC Error ellipse: s-maj=188.7km s-min=83.2km az=156.0.
JMA III 26 23 39 48.4–.20 36.61N 141.72E 62 2.9
¶603049264
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 27 00 09 16.8 36.94N 140.54E 5–1 1.2
¶603049265
IDC III 27 00 09 34.6–2.7 37.39N 141.87E 0 3.6,3.5
¶17198701
IDC Error ellipse: s-maj=60.3km s-min=27.3km az=74.0.
ISC III 27 00 35 41.8–.71 36.27N–.05 141.31E–.06 26 3.7b 25 1-91
NIED III 27 00 35 00 36.30N 141.30E 35 4.0W **¶16481104**
IDC III 27 00 35 40.0–.83 36.81N 141.25E 0 3.9,3.8
ISCJB III 27 00 35 40.4–.57 36.29N–.05 141.38E–.05 26 3.7b,3.8
JMA III 27 00 35 42.1–.10 36.25N 141.27E 44–2 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ43.00000°,λ132.00000°. NP2:ϕ_s15.00000°,δ59.00000°,λ59.00000°. $M_0$1.25000×10^{15}
IDC Error ellipse: s-maj=23.9km s-min=18.6km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.8km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 27 01 16 58.3–.10 38.34N 142.09E 36–1 3.8

¶602698000

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 27 02 37 23.1–11 36.56N 141.87E 0 3.6b,3.5

¶17198715

IDC Error ellipse: s-maj=204.7km s-min=75.2km az=141.0.
ISC III 27 02 53 40.0–.70 37.60N–.07 141.92E–.07 24 3.7b 28 1-89
ISCJB III 27 02 53 38.0–.54 37.58N–.06 142.06E–.05 24 3.8b **¶17198717**
JMA III 27 02 53 39.7–.20 37.57N 141.93E 25 4.0
IDC III 27 02 53 43.5–4.2 37.60N 141.94E 53–38 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.8km az=165.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.1km s-min=17.6km az=81.0.
ISC III 27 03 17 42.2–1.6 36.03N–.06 141.9E–.20 23 3.6b 15 1-56
IDC III 27 03 17 37.8–2.5 36.07N 142.19E 0 4.6,4.6s **¶17198719**
JMA III 27 03 17 42.4–.30 36.10N 141.97E 63 3.1,4.6s
ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=25.6km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 27 03 20 14.6–.30 37.32N 141.99E 26 3.9

¶602697739

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 27 03 20 18.3–.57 40.24N–.03 142.43E–.03 44–4 5.1b,4.6s 586 1-154
NIED III 27 03 20 00 40.20N 142.40E 41 5.0W,4.6s **¶602443923**
BJI III 27 03 20 12.2 40.05N 142.76E 36 5.0b,5.0b
JMA III 27 03 20 17.5–.10 40.15N 142.42E 36–1 5.0,5.0b
ISCJB III 27 03 20 17.4–.34 40.22N–.02 142.29E–.03 45–3 5.1b,4.5s
NEIC III 27 03 20 17.9–.63 40.18N 142.26E 38–5 5.1b,4.5s
MOS III 27 03 20 17.4–.83 40.34N 142.26E 42 5.4b,4.6s
GCMT III 27 03 20 17.9–.20 40.27N 142.63E 48–1 5.0W,4.6s
IDC III 27 03 20 19.6–2.1 40.15N 142.36E 57–19 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ14.00000°,λ88.00000°. NP2:ϕ_s21.00000°,δ76.00000°,λ90.00000°. $M_0$3.65000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=146.6.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=148.0. Recorded [3 JMA] in Iwate.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=103.7.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c74; s87,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.57±.17 $M_{\theta\theta}$0.13±.11; $M_{\theta\phi}$-3.70±.11; $M_{r\theta}$1.29±.09; $M_{\theta\phi}$-0.64±.09; $M_{\phi r}$2.43±.10; Best double couple: NP1:ϕ_s20.00000°,δ64.00000°,λ101.00000°. NP2:ϕ_s178.00000°,δ28.00000°,λ70.00000°. Principal axes: T 4.5620,Plg70.0000°,Azm312.0000°; N 0.0830,Plg10.0000°,Azm196.0000°; P -4.6460,Plg18.0000°,Azm103.0000° $M_0$4.60400×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=11.1km az=126.0.
ISC III 27 03 37 49.4–1.4 36.57N–.04 141.15E–.08 42–12 3.7b 35 0-75
NIED III 27 03 37 00 36.60N 141.00E 53 3.8W **¶17198720**
ISCJB III 27 03 37 48.2–.80 36.54N–.04 141.17E–.08 51–6 3.7b
JMA III 27 03 37 50.3–.10 36.61N 141.02E 48–1 4.0
IDC III 27 03 37 53.2–2.1 36.41N 140.88E 80–19 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ44.00000°,λ-26.00000°. NP2:ϕ_s249.00000°,δ72.00000°,λ-130.00000°. $M_0$5.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.0km az=13.9.
JMA Event type fe.
IDC Error ellipse: s-maj=23.7km s-min=11.8km az=79.0.
JMA III 27 04 41 45.2 36.83N 140.55E 6 1.9

¶603049268

JMA III 27 04 52 28.9–.10 39.15N 142.41E 33–2 3.6

¶602697548

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 27 04 54 02.1–2.0 39.14N–.05 142.34E–.09 24–12 3.8b 26 1-76
NIED III 27 04 54 00 39.10N 142.40E 38 3.8W **¶17198729**
JMA III 27 04 54 01.3–.10 39.09N 142.42E 31–2 3.8
ISCJB III 27 04 54 02.7–1.2 39.12N–.05 142.4E–.10 43–9 3.6b
IDC III 27 04 54 07.8–2.9 39.07N 142.21E 77–27 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ18.00000°,λ-164.00000°. NP2:ϕ_s184.00000°,δ85.00000°,λ-72.00000°. $M_0$6.22000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=7.1km az=18.6.
IDC Error ellipse: s-maj=33.2km s-min=18.3km az=159.0.
ISC III 27 05 00 42.0–1.6 35.93N–.06 141.3E–.10 31 3.9b 15 0-56
IDC III 27 05 00 36.6–2.6 35.95N 141.47E 0 3.7,3.7 **¶17198732**
ISCJB III 27 05 00 40.5–1.3 35.86N–.06 141.3E–.10 31 3.7b,3.7
JMA III 27 05 00 45.7–.10 35.90N 140.84E 40–1 2.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=63.2km s-min=25.7km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=7.3km az=164.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 27 05 07 52.4–.36 39.92N–.03 142.10E–.04 47–2 4.8b,4.4s 490 0-149
NIED III 27 05 07 00 39.90N 142.20E 53 5.0W,4.4s **¶16362954**
BJI III 27 05 07 49.7 39.77N 142.19E 51 5.0b,4.8b
MOS III 27 05 07 50.1–.96 39.85N 141.88E 40 5.1b,4.5s
ISCJB III 27 05 07 52.9–.27 39.94N–.03 141.91E–.03 57–2 4.8b,4.3s
JMA III 27 05 07 52.1–.10 39.89N 142.17E 48–1 4.8,4.3s
IDC III 27 05 07 54.8–1.8 39.86N 141.99E 69–15 4.5,4.3
GCMT III 27 05 07 56.0–.20 39.95N 142.18E 51–1 5.0W,4.3
NEIC III 27 05 07 56.0–.48 39.93N 141.85E 72–4 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ15.00000°,λ83.00000°. NP2:ϕ_s18.00000°,δ75.00000°,λ92.00000°. $M_0$3.37000×10^{16}
MOS Error ellipse: s-maj=7.7km s-min=4.2km az=106.5.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=147.7.
JMA Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=10.4km az=111.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c76; s87,c147; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.51±.15 $M_{\theta\theta}$-0.17±.11; $M_{\theta\phi}$-3.34±.11; $M_{r\theta}$1.12±.08; $M_{\theta\phi}$-0.59±.08; $M_{\phi r}$2.82±.10; Best double couple: NP1:ϕ_s18.00000°,δ66.00000°,λ96.00000°. NP2:ϕ_s183.00000°,δ25.00000°,λ77.00000°. Principal axes: T 4.6750,Plg69.0000°,Azm299.0000°; N -0.1240,Plg5.0000°,Azm195.0000°; P -4.5550,Plg20.0000°,Azm103.0000° $M_0$4.61500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=153.0. Recorded [3 JMA] in Iwate.
ISC III 27 05 22 52.9–2.3 38.34N–.05 141.9E–.10 26–13 21 0-58
JMA III 27 05 22 55.5–.10 38.35N 141.75E 50–1 3.7 **¶602697517**
IDC III 27 05 23 06.8–9.9 38.65N 140.20E 68–46 3.8,3.8s
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=153.8km s-min=38.7km az=81.0.
ISC III 27 05 31 23.5–2.6 39.88N–.05 142.4E–.10 26–13 3.6b 21 0-60
NIED III 27 05 31 00 39.90N 142.40E 68 3.8W **¶17198736**
IDC III 27 05 31 11.8–1.3 39.68N 143.64E 0 3.8,3.6
JMA III 27 05 31 24.5–.10 39.93N 142.39E 38–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ15.00000°,λ73.00000°. NP2:ϕ_s17.00000°,δ75.00000°,λ95.00000°. $M_0$6.34000×10^{14}
IDC Error ellipse: s-maj=29.1km s-min=26.2km az=84.0.
JMA III 27 05 32 35.1–.10 36.19N 141.00E 47–1 3.7
NIED III 27 05 32 00 36.20N 141.00E 20 3.8W **¶603145338**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ53.00000°,λ4.00000°. NP2:ϕ_s105.00000°,δ87.00000°,λ142.00000°. $M_0$6.16000×10^{14}
IDC III 27 07 07 17.3–2.5 36.58N 141.66E 0 3.6,3.6b

¶17198745

IDC Error ellipse: s-maj=66.3km s-min=27.9km az=62.0.
ISC III 27 07 21 27.6–1.9 37.06N–.07 141.2E–.10 48–11 3.1b 18 0-46
IDC III 27 07 21 21.8–6.8 36.58N 140.71E 0 3.3,3.3 **¶17198746**
ISCJB III 27 07 21 27.6–1.3 37.07N–.06 141.2E–.10 56–7 3.1b,3.3
JMA III 27 07 21 28.8–.10 37.10N 141.12E 51–1 3.1,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=112.0km s-min=58.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=18.9km s-min=8.0km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 27 07 21 56.7–1.5 36.36N–.10 141.8E–.10 19 3.8b 11 3-56
IDC III 27 07 21 52.0–2.4 36.49N 142.16E 0 3.7,3.7 **¶17198749**
ISCJB III 27 07 21 54.8–1.1 36.35N–.07 141.8E–.10 19 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 07 44 39.9–1.9 39.31N–.06 142.43E–.09 30–12 3.8b 27 1-81
NIED III 27 07 44 00 39.30N 142.50E 41 3.9W **¶17198752**
JMA III 27 07 44 38.9–.10 39.25N 142.46E 31–1 3.9
ISCJB III 27 07 44 39.2–1.3 39.27N–.05 142.5E–.10 40–10 3.7b,3.4s
IDC III 27 07 44 43.7–3.0 39.15N 142.48E 71–27 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ28.00000°,λ-79.00000°. NP2:ϕ_s199.00000°,δ63.00000°,λ-96.00000°. $M_0$7.37000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=8.4km az=11.1.
IDC Error ellipse: s-maj=22.4km s-min=15.8km az=86.0.
ISC III 27 07 45 47.1–3.7 37.69N–.06 141.88E–.07 5–23 3.6b 24 1-89
IDC III 27 07 45 46.4–.86 37.73N 141.99E 0 3.7,3.5 **¶17198753**
JMA III 27 07 45 48.6–.10 37.69N 141.85E 16–2 4.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=19.4km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 27 08 16 59.5–.93 35.70N–.05 140.05E–.07 80–7 3.9b 24 0-75
IDC III 27 08 16 55.9–5.7 35.96N 140.59E 55–41 3.8,3.7 **¶17198756**
ISCJB III 27 08 16 58.6–.63 35.68N–.05 140.05E–.07 86–5 3.7b,3.7
JMA III 27 08 16 59.6–.10 35.80N 140.08E 67–2 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=79.9km s-min=20.1km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.8km az=149.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s0.00000°,δ68.00000°,λ93.00000°. NP2: ϕ_s172.00000°,δ22.00000°,λ82.00000°. Principal axes: T Plg67.0000°,Azm276.0000°; N Plg3.0000°,Azm179.0000°; P Plg23.0000°,Azm88.0000°
ISC III 27 08 36 48.4–1.3 36.90N–.05 140.55E–.04 7–12 3.5b 20 0-57
IDC III 27 08 36 47.4–1.8 36.80N 140.54E 0 3.6,3.4 **¶17198759**
ISCJB III 27 08 36 48.7–.57 36.93N–.03 140.61E–.05 17–7 3.5b,3.4
JMA III 27 08 36 49.0 36.94N 140.53E 4–2 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=29.2km s-min=19.7km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=12.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s214.00000°,δ51.00000°,λ-108.00000°. NP2:ϕ_s62.00000°,δ42.00000°,λ-68.00000°. Principal axes: T Plg5.0000°,Azm317.0000°; N Plg14.0000°,Azm226.0000°; P Plg75.0000°,Azm64.0000°
ISC III 27 08 48 52.9–1.2 37.75N–.04 141.98E–.09 24 3.6b 24 1-62
IDC III 27 08 48 47.7–2.1 37.91N 142.51E 0 3.8,3.7 **¶600568703**
ISCJB III 27 08 48 50.7–.88 37.73N–.04 142.20E–.09 24 3.5b,3.7
JMA III 27 08 48 52.7–.20 37.77N 142.08E 32–3 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=54.9km s-min=21.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.4km az=179.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 27 09 13 59.7–.10 38.63N 141.92E 45–1 4.0

¶16362959

JMA Event type fe.
ISC III 27 09 46 29.9–2.7 36.80N–.05 141.98E–.08 6–16 3.6b 24 1-57
IDC III 27 09 46 27.9–2.6 36.73N 142.34E 0 3.6,3.5 **¶17198768**
JMA III 27 09 46 32.0–.20 36.75N 142.06E 45 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.7km s-min=28.3km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 09 49 04.6–1.2 36.56N–.05 141.06E–.07 43–10 3.8b 36 0-91
NIED III 27 09 49 00 36.60N 141.00E 53 4.0W **¶17198769**
ISCJB III 27 09 49 03.6–.68 36.54N–.04 141.05E–.07 51–5 3.7b,2.8s
JMA III 27 09 49 04.7–.10 36.58N 140.99E 48–1 3.8,2.8s
IDC III 27 09 49 06.2–2.0 36.51N 140.93E 60–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ34.00000°,λ29.00000°. NP2:ϕ_s84.00000°,δ74.00000°,λ121.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.0km az=22.8.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=11.4km az=84.0.
ISC III 27 10 00 30.9–3.0 36.56N–.05 141.45E–.09 16–16 3.4b 17 1-59
NIED III 27 10 00 00 36.60N 141.30E 29 3.4W **¶17198771**
IDC III 27 10 00 27.4–2.7 36.59N 141.75E 0 3.7L,3.5
ISCJB III 27 10 00 30.8–1.7 36.52N–.05 141.5E–.10 26–9 3.5s,3.2b
JMA III 27 10 00 32.9–.10 36.56N 141.33E 49–2 3.5,3.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ3.00000°,λ-40.00000°. NP2:ϕ_s5.00000°,δ88.00000°,λ-92.00000°. $M_0$1.44000×10^{14}
IDC Error ellipse: s-maj=62.0km s-min=26.6km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=7.5km az=6.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 10 17 38.9–3.7 38.44N–.05 142.3E–.10 23–25 3.8b 20 1-62
NIED III 27 10 17 00 38.40N 142.30E 32 3.5W **¶17198773**
IDC III 27 10 17 33.7–1.1 38.56N 142.73E 0 3.7,3.7
ISCJB III 27 10 17 38.7–1.5 38.39N–.05 142.3E–.10 39–13 3.7s,3.6b
JMA III 27 10 17 39.7–.10 38.43N 142.25E 34–2 3.9,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ38.00000°,λ133.00000°. NP2:ϕ_s102.00000°,δ63.00000°,λ62.00000°. $M_0$2.35000×10^{14}
IDC Error ellipse: s-maj=30.6km s-min=20.1km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=15.7km s-min=7.9km az=178.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 10 23 20.9–.50 35.27N–.03 141.10E–.04 28–3 4.9b,4.6s 436 0-150
NIED III 27 10 23 00 35.30N 141.20E 20 4.9W,4.6s **¶600568767**
IDC III 27 10 23 17.0–.44 35.27N 141.00E 0 4.7,4.6
BJI III 27 10 23 19.6 35.35N 141.15E 43 5.0b,4.8b
JMA III 27 10 23 19.7–.10 35.31N 141.16E 31–2 5.0,4.8b
MOS III 27 10 23 20.5–.95 35.24N 140.85E 33 5.2b,4.6s
ISCJB III 27 10 23 20.4–.48 35.25N–.02 140.98E–.03 33–3 4.9b,4.6s
NEIC III 27 10 23 23.1–.54 35.24N 141.01E 41–5 4.9b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ42.00000°,λ-155.00000°. NP2:ϕ_s218.00000°,δ73.00000°,λ-51.00000°. $M_0$2.89000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=88.0.
JMA Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=4.6km az=115.5.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=161.6.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=137.0. Recorded [2 JMA] in Chiba.
ISC III 27 10 44 07.4–1.5 38.04N–.09 142.62E–.10 14 3.6b 14 1-58
IDC III 27 10 44 02.7–2.6 38.38N 143.32E 0 3.7b,3.7 **¶17198776**
ISCJB III 27 10 44 06.0–1.2 38.0N–.10 142.8E–.10 14 3.6b,3.7
JMA III 27 10 44 07.4–.30 38.03N 142.76E 20–4 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=66.4km s-min=28.2km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=11.4km az=24.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 27 10 49 30.9–.10 37.13N 141.16E 34–2 3.6

¶602697113

JMA Event type fe.
ISC III 27 11 08 23.9–.49 37.34N–.03 141.60E–.04 40–4 4.8b,3.9s 358 1-146
NIED III 27 11 08 00 37.30N 141.70E 44 4.6W,3.9s **¶16362964**
BJI III 27 11 08 19.9 37.13N 141.80E 42 4.9b,4.9b
JMA III 27 11 08 23.9–.10 37.34N 141.57E 45–2 4.6,4.9b
ISCJB III 27 11 08 24.4–.39 37.33N–.02 141.47E–.03 55–3 4.8b,3.9s

MOS III 27 11 08 24.8–1.1 37.39N 141.41E 59 5.0b,3.9s
NEIC III 27 11 08 25.8–.55 37.34N 141.40E 52–5 4.8b,3.9s
IDC III 27 11 08 25.7–2.1 37.36N 141.53E 53–19 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ16.00000°,λ87.00000°. NP2:ϕ_s28.00000°,δ74.00000°,λ91.00000°. $M_0$1.05000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=42.0.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=136.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.3km s-min=9.5km az=100.0.
ISC III 27 11 17 04.6–1.4 38.13N–.08 142.22E–.09 30 3.5b 20 1-60
ISCJB III 27 11 17 04.9–1.3 38.08N–.09 142.24E–.08 30 3.7b **¶17198779**
IDC III 27 11 17 05.0–1.4 38.86N 142.00E 0 3.7,3.6b
JMA III 27 11 17 07.4–.20 38.21N 142.13E 41–2 3.4,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=7.9km az=153.5.
IDC Error ellipse: s-maj=38.2km s-min=26.8km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 11 28 45.4–1.9 37.29N–.04 141.61E–.07 4–11 3.5b 28 1-90
NIED III 27 11 28 00 37.30N 141.60E 5 3.6W **¶602697061**
IDC III 27 11 28 44.9–.72 37.28N 141.58E 0 3.8,3.6
JMA III 27 11 28 47.2–.20 37.32N 141.64E 30–3 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ31.00000°,λ-88.00000°. NP2:ϕ_s227.00000°,δ59.00000°,λ-91.00000°. $M_0$3.12000×10^{14}
IDC Error ellipse: s-maj=18.5km s-min=17.7km az=133.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 11 48 43.9–1.9 36.29N–.04 141.27E–.10 27–13 3.5b 18 1-60
IDC III 27 11 48 38.3–2.6 36.42N 141.70E 0 3.4,3.4 **¶602697037**
ISCJB III 27 11 48 42.6–1.4 36.26N–.04 141.4E–.10 29–7 3.3b,3.4
JMA III 27 11 48 44.9–.10 36.25N 141.22E 49–2 3.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=61.2km s-min=27.7km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.5km az=175.9.
JMA III 27 12 30 20.4–.20 37.47N 141.85E 22–3 3.7
¶602697003
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 13 21 49.9–1.5 36.01N–.07 140.9E–.10 23–11 3.4b 13 0-56
ISCJB III 27 13 21 49.2–1.1 35.97N–.06 141.0E–.10 33–5 3.4b **¶17198792**
JMA III 27 13 21 49.2–.10 35.98N 141.01E 33–1 3.2
IDC III 27 13 21 50.9–7.9 35.33N 139.53E 0 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=8.4km az=150.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=306.0km s-min=28.1km az=65.0.
ISC III 27 13 39 16.5–.81 34.82N–.06 140.85E–.09 48 3.4b 19 0-77
NIED III 27 13 39 00 34.90N 141.20E 5 3.8W **¶17198793**
IDC III 27 13 39 10.3–.79 34.91N 140.98E 0 3.6,3.5
JMA III 27 13 39 12.3–.20 34.85N 141.17E 39–3 3.5,3.5
ISCJB III 27 13 39 14.3–.61 34.80N–.05 140.95E–.07 48 3.4b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ45.00000°,λ127.00000°. NP2:ϕ_s146.00000°,δ56.00000°,λ58.00000°. $M_0$5.94000×10^{14}
ISCJB Event type ke.
JMA III 27 13 41 01.4–.20 37.52N 141.79E 27–3 3.8
¶602696940
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 13 41 34.3–.24 38.99N–.03 142.43E–.03 38–1 5.5b,5.1s 1539 1-159
NIED III 27 13 41 00 38.90N 142.40E 32 5.2W,5.1s **¶602696936**
BJI III 27 13 41 32.3 38.90N 142.33E 43 5.2b,5.2b
ISCJB III 27 13 41 33.5–.35 38.97N–.02 142.33E–.02 40–3 5.5b,5.0s
JMA III 27 13 41 33.4–.10 38.97N 142.40E 36–2 5.4,5.0s
MOS III 27 13 41 33.0–.89 39.10N 142.35E 33 5.7b,5.0s
IDC III 27 13 41 34.2–.40 38.97N 142.32E 34–2 5.1,5.0
NEIC III 27 13 41 34.3–.07 38.95N 142.36E 35 5.6b,5.3W
GCMT III 27 13 41 34.3–.10 39.10N 142.29E 38–0 5.3W,5.3W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ17.00000°,λ-58.00000°. NP2:ϕ_s194.00000°,δ76.00000°,λ-99.00000°. $M_0$8.05000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.9km az=95.8.
IDC Error ellipse: s-maj=9.2km s-min=8.7km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=146.0. Felt at Misawa. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi. Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ39.00000°,λ-39.00000°. NP2:ϕ_s190.00000°,δ66.00000°,λ-12.00000°. Principal axes: T 1.2400,Plg15.0000°,Azm303.0000°; N -0.2800,Plg29.0000°,Azm204.0000°; P -0.9600,Plg56.0000°,Azm58.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s99,c177; s107,c201;Duration: 1$\dot{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.76±.02 $M_{\theta\theta}$0.21±.01; $M_{\phi\phi}$0.55±.01; $M_{r\theta}$0.00±.01; $M_{\theta\phi}$0.22±.01; $M_{\phi r}$0.73±.01; Best double couple: NP1:ϕ_s189.00000°,δ68.00000°,λ-101.00000°. NP2:ϕ_s35.00000°,δ24.00000°,λ-66.00000°. Principal axes: T 0.9320,Plg22.0000°,Azm287.0000°; N 0.1580,Plg10.0000°,Azm193.0000°; P -1.0900,Plg65.0000°,Azm81.0000° $M_0$1.01100×10^{17}
ISC III 27 14 27 04.9–1.1 35.12N–.05 141.3E–.10 27 3.4b 16 1-59
IDC III 27 14 27 01.2–1.3 35.11N 141.45E 0 3.5,3.5b **¶17198798**
JMA III 27 14 27 03.9–.20 35.16N 141.27E 33–3 2.9,3.5b
ISCJB III 27 14 27 03.1–.90 35.13N–.04 141.40E–.09 27 3.4b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 15 00 38.9–1.9 36.59N–.06 141.68E–.08 19–5 3.5b 19 1-60
IDC III 27 15 00 33.1–2.3 36.86N 142.32E 0 3.6,3.6L **¶600568966**
JMA III 27 15 00 40.1–.20 36.63N 141.80E 41–5 3.4,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=26.2km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 15 17 44.9–.79 37.64N–.04 141.88E–.04 12–4 4.8b,3.9s 418 1-155
NIED III 27 15 17 00 37.60N 141.90E 5 4.5W,3.9s **¶16362971**
BJI III 27 15 17 43.2 37.62N 141.90E 20 5.0b,4.8b
IDC III 27 15 17 43.4–.43 37.66N 141.81E 0 4.8,4.7
JMA III 27 15 17 44.2–.10 37.62N 141.91E 19–2 4.7,4.7
ISCJB III 27 15 17 45.5–.67 37.65N–.03 141.79E–.03 23–4 4.8b,3.8s
NEIC III 27 15 17 48.0–1.1 37.68N 141.75E 28–7 4.8b,3.8s
MOS III 27 15 17 48.0–.84 37.89N 141.73E 33 5.0b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ39.00000°,λ-66.00000°. NP2:ϕ_s118.00000°,δ55.00000°,λ-108.00000°. $M_0$6.32000×10^{15}
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=112.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=156.9.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=149.0.
MOS Error ellipse: s-maj=6.6km s-min=4.4km az=100.6.
JMA III 27 15 34 40.3–.10 36.65N 141.08E 32–1 2.2
¶603049271
ISC III 27 16 19 17.9–2.2 38.97N–.05 142.50E–.09 9–12 3.7b 27 1-59
NIED III 27 16 19 00 39.00N 142.40E 38 3.7W **¶17198809**
JMA III 27 16 19 20.3–.10 38.99N 142.42E 33–2 3.9
IDC III 27 16 19 24.5–3.8 38.86N 142.46E 70–37 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ35.00000°,λ-100.00000°. NP2:ϕ_s204.00000°,δ55.00000°,λ-83.00000°. $M_0$4.69000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=20.6km az=120.0.
ISC III 27 16 23 41.6–2.1 38.75N–.05 142.19E–.10 27–13 3.5b 21 1-59
ISCJB III 27 16 23 40.2–1.5 38.71N–.05 142.31E–.08 30–8 3.4b **¶600569041**
JMA III 27 16 23 41.9–.10 38.74N 142.22E 32–2 4.1
IDC III 27 16 23 45.0–4.8 38.75N 142.16E 58–45 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=8.8km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=24.5km az=71.0.
JMA III 27 16 41 05.2–.10 38.99N 142.41E 31–2 3.6
NIED III 27 16 41 00 39.00N 142.40E 35 3.8W **¶600569059**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ37.00000°,λ-65.00000°. NP2:ϕ_s137.00000°,δ57.00000°,λ-108.00000°. $M_0$6.17000×10^{14}
ISC III 27 16 50 58.9–2.1 37.55N–.06 141.95E–.08 4–12 3.4b 25 1-77
IDC III 27 16 50 58.3–1.0 37.52N 141.92E 0 3.7,3.5 **¶17198815**
JMA III 27 16 51 00.1–.20 37.54N 141.93E 19–3 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=21.0km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 17 41 38.2–.87 35.43N–.05 141.74E–.07 22 3.7b 26 1-147
NIED III 27 17 41 00 35.50N 141.80E 20 3.9W **¶17198818**
IDC III 27 17 41 35.0–.89 35.35N 141.80E 0 3.8,3.7b
ISCJB III 27 17 41 36.4–.70 35.38N–.04 141.86E–.06 22 3.6b,2.4s
JMA III 27 17 41 37.8–.20 35.49N 141.81E 48–3 3.5,2.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ47.00000°,λ17.00000°. NP2:ϕ_s81.00000°,δ77.00000°,λ135.00000°. $M_0$7.77000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=16.9km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.4km az=8.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 17 51 16.7–1.7 34.44N–.07 140.8E–.20 55 3.3b 11 2-58
ISCJB III 27 17 51 14.8–1.3 34.46N–.06 140.8E–.20 55 3.2b **¶17198821**
IDC III 27 17 51 16.4–4.0 34.44N 140.79E 49–31 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=7.3km az=164.7.
IDC Error ellipse: s-maj=47.6km s-min=7.7km az=83.0.
JMA III 27 18 08 34.0 36.88N 140.63E 9–1 3.3
¶603049272
JMA Event type fe.
JMA III 27 18 14 06.4–.10 36.91N 141.15E 49–1 2.9
¶603049273
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 27 18 30 45.3–.10 36.70N 141.08E 45–1 3.5
¶602697162
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 27 18 31 26.9–.20 37.32N 141.81E 25–3 3.5
NIED III 27 18 31 00 37.30N 141.80E 38 3.5W **¶600569129**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ67.00000°,λ-162.00000°. NP2:ϕ_s111.00000°,δ74.00000°,λ-24.00000°. $M_0$2.33000×10^{14}
ISC III 27 18 59 54.3–2.2 39.08N–.04 142.92E–.08 3–12 3.9b 30 1-68
JMA III 27 18 59 56.4–.20 39.12N 142.97E 19–3 4.0 **¶17198831**
IDC III 27 19 00 02.3–3.4 39.09N 142.88E 66–31 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=20.3km az=114.0.
JMA III 27 19 04 59.1–.10 39.25N 142.41E 27–1 3.5
¶603049274
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 19 20 27.1–2.0 39.0N–.20 142.8E–.20 16 3.6b 8 4-63
ISCJB III 27 19 20 24.7–1.5 39.0N–.10 142.8E–.20 16 3.6b **¶17198836**
IDC III 27 19 20 24.3–2.0 39.04N 142.82E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=16.5km az=164.0.
IDC Error ellipse: s-maj=52.6km s-min=22.8km az=61.0.
JMA III 27 20 43 18.7–.10 38.42N 142.28E 24–2 3.5
NIED III 27 20 43 00 38.40N 142.30E 17 3.4W **¶600569237**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ30.00000°,λ-175.00000°. NP2:ϕ_s140.00000°,δ87.00000°,λ-60.00000°. $M_0$1.53000×10^{14}
ISC III 27 20 50 25.9–1.2 39.46N–.05 142.38E–.05 31–7 4.5b,3.7s 115 0-145
NIED III 27 20 50 00 39.50N 142.50E 23 4.3W,3.7s **¶16364012**
JMA III 27 20 50 24.4–.10 39.47N 142.45E 32–1 4.3,3.7s
ISCJB III 27 20 50 24.3–.81 39.45N–.03 142.44E–.05 32–5 4.3b,3.7s
IDC III 27 20 50 27.9–1.9 39.42N 142.36E 48–18 4.2,4.1
NEIC III 27 20 50 29.1–.83 39.48N 142.37E 58–7 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ11.00000°,λ-70.00000°. NP2:ϕ_s215.00000°,δ80.00000°,λ-94.00000°. $M_0$2.84000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.7km az=42.1.
IDC Error ellipse: s-maj=13.8km s-min=11.4km az=97.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.4km az=130.0.
JMA III 27 20 56 50.5–.10 39.24N 142.42E 32–1 3.5
NIED III 27 20 56 00 39.20N 142.40E 50 4.0W **¶600569252**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ43.00000°,λ-134.00000°. NP2:ϕ_s314.00000°,δ61.00000°,λ-57.00000°. $M_0$1.07000×10^{15}
ISC III 27 21 11 46.6–.43 36.59N–.04 141.04E–.05 53–3 4.7b,3.7s 406 0-158
NIED III 27 21 11 00 36.60N 141.10E 44 4.7W,3.7s **¶16364014**
BJI III 27 21 11 42.5 36.19N 140.99E 40 5.0b,4.6b
IDC III 27 21 11 46.9–.50 36.55N 140.96E 58–4 4.5,4.4
JMA III 27 21 11 46.0–.10 36.58N 141.06E 52–1 4.7,4.4
ISCJB III 27 21 11 46.1–.35 36.57N–.03 140.93E–.03 60–2 4.7b,3.7s
MOS III 27 21 11 47.2–.78 36.93N 140.88E 56 4.9b,3.7s
NEIC III 27 21 11 47.4–.16 36.60N 140.91E 57 4.8b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ39.00000°,λ98.00000°. NP2:ϕ_s205.00000°,δ51.00000°,λ84.00000°. $M_0$1.10000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=10.4km az=118.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=146.2.
MOS Error ellipse: s-maj=7.4km s-min=5.2km az=99.8.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.0km az=155.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
ISC III 27 21 29 33.3–.63 38.86N–.05 142.11E–.07 51 3.8b 33 1-145
NIED III 27 21 29 00 38.90N 142.10E 50 4.0W **¶602696270**
ISCJB III 27 21 29 31.7–.52 38.86N–.04 142.09E–.06 51 3.8b,2.8s
JMA III 27 21 29 32.3–.10 38.89N 142.08E 44–2 3.9,2.8s
IDC III 27 21 29 34.8–2.5 38.80N 142.00E 64–23 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ32.00000°,λ-39.00000°. NP2:ϕ_s249.00000°,δ71.00000°,λ-116.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=30.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=14.0km az=92.0.
ISC III 27 21 37 45.6–1.4 38.02N–.07 142.83E–.07 18 15 1-58
NIED III 27 21 37 00 38.00N 142.80E 29 3.4W **¶17198855**
IDC III 27 21 37 43.9–1.5 37.81N 143.56E 0 3.6,3.3
ISCJB III 27 21 37 45.7–1.2 37.96N–.07 142.97E–.09 18 3.4b,3.3
JMA III 27 21 37 47.7–.20 37.97N 142.78E 19–3 3.7,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ33.00000°,λ-94.00000°. NP2:ϕ_s205.00000°,δ57.00000°,λ-88.00000°. $M_0$1.53000×10^{14}
IDC Error ellipse: s-maj=39.2km s-min=28.7km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=10.0km az=39.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 22 23 58.7–.32 38.38N–.02 142.22E–.02 20–1 6.3b,6.2s 2572 1-164
NIED III 27 22 23 00 38.40N 142.30E 20 6.1W,6.2s **¶602696198**
BJI III 27 22 23 55.2 38.40N 142.10E 10 6.4,6.4s
IDC III 27 22 23 55.4–.31 38.37N 142.17E 0 6.1,6.1s
ISCJB III 27 22 23 56.3–.48 38.37N–.01 142.08E–.01 12–2 6.2b,6.2s
NEIC III 27 22 23 56.0–.00 38.21N 142.12E 15 6.2b,6.2s
JMA III 27 22 23 57.0–.10 38.38N 142.35E 32–1 6.5,6.2s
MOS III 27 22 23 57.8–.85 38.41N 142.08E 21 6.5b,6.2s
NEIC III 27 22 23 58.8–.07 38.42N 142.01E 19 6.4,6.3b

GCMT III 27 22 23 58.8–.10 38.40N 142.09E 22–0 6.2W,6.3b
NEIC III 27 22 24 06.9–.00 38.34N 142.09E 10 6.2W,6.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ26.00000°,λ-67.00000°. NP2:ϕ_s281.00000°,δ67.00000°,λ-101.00000°. $M_0$1.66000×10^{18}
IDC Error ellipse: s-maj=10.2km s-min=9.3km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=159.2.
NEIC Event type se. Moment Tensor Solution. s90 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.07 $M_{\theta\theta}$1.57 $M_{\phi\phi}$0.50 $M_{r\theta}$1.99 $M_{\theta\phi}$-0.61 $M_{\phi r}$-0.29 Best double couple: NP1:ϕ_s283.00000° ,δ68.00000°,λ-97.00000°. NP2:ϕ_s122.00000°,δ23.00000°,λ-72.00000°. Principal axes: T 2.6500,Plg22.0000°,Azm18.0000°; N 0.2900,Plg6.0000°,Azm286.0000° ; P -2.9400,Plg66.0000°,Azm180.0000° $M_0$2.80000×10^{18}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=4.5km az=105.3.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=143.0. Felt [IV] at Misawa and [II] at Zama. Also felt at Akishima, Akita, Aomori, Furukawa, Narita, Otawara, Tokyo, Uenohara and Urayasu. Recorded [5L JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s96 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.17 $M_{\theta\theta}$1.48 $M_{\phi\phi}$-0.31 $M_{r\theta}$1.14 $M_{\theta\phi}$-0.51 $M_{\phi r}$-0.03 Best double couple: NP1:ϕ_s274.00000°,δ65.00000°,λ-102.00000°. NP2: ϕ_s121.00000°,δ27.00000°,λ-66.00000°. Principal axes: T 2.0000,Plg19.0000°,Azm13.0000° ; N -0.3900,Plg11.0000°,Azm279.0000°; P -1.6100,Plg68.0000°,Azm162.0000° $M_0$1.80000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s85.00000°,δ17.00000°,λ-90.00000°. NP2:ϕ_s265.00000°,δ73.00000°,λ-90.00000°. Principal axes: T Plg28.0000°,Azm355.0000°; N Plg0.0000°,Azm0.0000°; P Plg62.0000° ,Azm175.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s138,c343; s141,c561;Duration: 3s2 Moment tensor: Scale 10^{18} Nm; M_{rr}-2.28±.02 $M_{\theta\theta}$1.88±.01; $M_{\phi\phi}$0.39±.01; $M_{r\theta}$1.85±.03; $M_{\theta\phi}$-0.64±.01; $M_{\phi r}$0.32±.02; Best double couple: NP1:ϕ_s273.00000°,δ65.00000°,λ-104.00000°. NP2:ϕ_s123.00000° ,δ28.00000°,λ-62.00000°. Principal axes: T 2.6900,Plg19.0000°,Azm13.0000° ; N 0.3690,Plg13.0000°,Azm279.0000°; P -3.0650,Plg67.0000°,Azm157.0000° $M_0$2.87700×10^{18}
NEIC Event type se. Moment Tensor Solution. s102 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.76 $M_{\theta\theta}$1.53 $M_{\phi\phi}$0.24 $M_{r\theta}$-0.30 $M_{\theta\phi}$-0.56 $M_{\phi r}$-0.47 Best double couple: NP1:ϕ_s306.00000° ,δ45.00000°,λ-68.00000°. NP2:ϕ_s95.00000°,δ49.00000°,λ-111.00000°. Principal axes: T 1.7400,Plg2.0000°,Azm200.0000°; N 0.1800,Plg16.0000°,Azm109.0000° ; P -1.9200,Plg74.0000°,Azm297.0000° $M_0$1.80000×10^{18}

ISC III 27 22 37 09.2–1.4 38.20N–.07 142.61E–.09 24 3.7b 13 1-62
IDC III 27 22 37 03.3–2.5 38.50N 142.87E 0 3.7,3.6b **¶17198861**
ISCJB III 27 22 37 08.8–1.2 38.10N–.06 142.6E–.10 24 3.7b,3.6b
JMA III 27 22 37 16.3–.20 38.39N 142.30E 21–5 3.9,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=66.5km s-min=32.5km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=8.1km az=150.7.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 27 22 41 59.4–1.9 38.35N–.04 142.24E–.06 23–14 4.3b 60 1-75
IDC III 27 22 41 56.1–.76 38.34N 142.18E 0 4.0,3.9 **¶602696840**
ISCJB III 27 22 41 58.9–.77 38.34N–.03 142.27E–.06 34–7 4.3b,3.9
JMA III 27 22 41 59.7–.20 38.43N 142.21E 33–2 4.3,3.9
NEIC III 27 22 42 01.4–.75 38.31N 142.19E 38–7 4.9b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=14.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=7.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=88.0.
JMA III 27 22 42 55.0–.20 37.00N 141.37E 41–2 3.5
¶16481279
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 27 22 54 27.6–.30 38.44N 142.22E 23–5 3.5
¶602696827
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 27 22 58 04.3–3.1 36.43N–.07 141.05E–.08 8–18 3.6b 21 0-75
ISCJB III 27 22 58 02.2–1.6 36.37N–.06 141.22E–.07 8–8 3.5b **¶17198863**
IDC III 27 22 58 02.8–1.0 36.40N 141.18E 0 3.7,3.5
JMA III 27 22 58 05.6 36.42N 141.05E 23–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=8.6km az=21.2.
IDC Error ellipse: s-maj=28.6km s-min=19.9km az=68.0.
JMA Event type fe.
ISC III 27 22 59 38.0–2.4 37.69N–.06 141.93E–.10 9–14 3.8b 15 1-61
ISCJB III 27 22 59 37.7–2.2 37.69N–.05 142.0E–.10 17–15 3.7b **¶17198864**
JMA III 27 22 59 39.3–.10 37.70N 141.91E 22–3 3.9
IDC III 27 22 59 39.6–2.1 37.24N 142.02E 0 3.8,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=8.2km az=13.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=61.8km s-min=22.8km az=65.0.
JMA III 27 23 02 59.6–.20 38.41N 142.27E 25–2 3.5
¶602696822
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 27 23 03 18.7–.10 38.31N 141.94E 27–1 3.9
¶602696819
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 27 23 08 40.5–1.5 38.26N–.06 142.1E–.10 35 3.4b 21 1-58
IDC III 27 23 08 32.4–2.6 38.23N 142.86E 0 3.7,3.5 **¶17198865**
JMA III 27 23 08 39.4–.10 38.23N 142.09E 40–1 3.9,3.5
ISCJB III 27 23 08 40.2–1.3 38.27N–.05 142.1E–.10 35 3.4b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 27 23 32 52.4–.10 40.11N 142.14E 45–1 3.6
¶602696764
JMA Event type fe.
JMA III 27 23 59 18.5–.10 38.43N 142.16E 29–1 3.5
¶602696725
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 00 07 14.7–2.5 36.57N–.05 141.90E–.10 6–13 3.4b 21 1-64
JMA III 28 00 07 13.8–.40 36.56N 142.02E 10–5 3.5 **¶602700314**
ISCJB III 28 00 07 13.4–1.8 36.57N–.04 142.08E–.10 12–12 3.3b
IDC III 28 00 07 33.2–1.7 37.80N 139.49E 0 3.5,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=7.2km az=177.1.
IDC Error ellipse: s-maj=40.4km s-min=24.4km az=134.0.
JMA III 28 00 19 53.4–.20 38.41N 142.20E 27–2 3.6
¶602700293
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 00 57 27.7–1.3 36.35N–.07 141.90E–.10 19 3.6b 16 1-64
ISCJB III 28 00 57 26.5–1.1 36.38N–.07 141.97E–.10 19 3.5b **¶602700163**
IDC III 28 00 57 27.1–1.3 36.75N 141.83E 0 3.7,3.6
JMA III 28 00 57 28.1–.30 36.35N 141.90E 54 3.5,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=8.1km az=31.9.
IDC Error ellipse: s-maj=29.9km s-min=27.9km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 28 01 19 46.8–.58 38.56N–.04 142.06E–.04 45–4 4.8b,4.2s 352 1-145
NIED III 28 01 19 00 38.60N 141.90E 50 4.7W,4.2s **¶16364030**
BJI III 28 01 19 40.7 38.42N 142.16E 25 5.0b,4.8b
MOS III 28 01 19 46.9–.97 38.70N 141.89E 55 5.0b,4.8b
ISCJB III 28 01 19 46.7–.42 38.62N–.03 141.95E–.04 54–3 4.7b,4.2s
JMA III 28 01 19 48.0–.10 38.61N 141.88E 50–1 4.4,4.2s
NEIC III 28 01 19 49.3–.68 38.58N 141.92E 66–6 4.7b,4.2s
IDC III 28 01 19 51.5–2.1 38.60N 141.82E 79–18 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ90.00000°. NP2:ϕ_s21.00000°,δ66.00000°,λ90.00000°. $M_0$1.42000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=4.5km az=101.8.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.7km az=146.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=142.0. Recorded [3 JMA] in Miyagi.
IDC Error ellipse: s-maj=13.7km s-min=11.8km az=126.0.
JMA III 28 01 22 22.9–.10 38.87N 142.00E 49–1 3.8
¶602700134
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 01 41 41.9–1.7 36.06N–.08 140.9E–.10 31 3.6b 8 0-46
IDC III 28 01 41 27.8–5.7 35.19N 142.07E 0 3.7b,3.6 **¶17198881**
JMA III 28 01 41 39.4–.20 36.07N 141.22E 44–2 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=117.0km s-min=73.9km az=2.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 28 01 52 04.4–1.5 36.75N–.05 140.99E–.08 19–3 3.5b 20 0-74
NIED III 28 01 52 00 36.70N 141.00E 8 3.6W **¶600569488**
ISCJB III 28 01 52 01.9–1.3 36.70N–.04 141.17E–.07 11–6 3.4b
JMA III 28 01 52 04.8 36.74N 140.99E 20–1 4.0
IDC III 28 01 52 14.7–1.2 35.26N 137.19E 0 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ58.00000°,λ-14.00000°. NP2:ϕ_s333.00000°,δ78.00000°,λ-147.00000°. $M_0$2.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.4km az=16.3.
JMA Event type fe.
IDC Error ellipse: s-maj=29.4km s-min=21.8km az=98.0.
ISC III 28 02 07 52.0–1.4 38.42N–.08 142.1E–.10 35 3.7b 11 1-62
IDC III 28 02 07 47.7–1.4 38.07N 143.02E 0 3.8,3.7b **¶600569493**
ISCJB III 28 02 07 50.2–1.1 38.39N–.06 142.19E–.08 35 3.6b,3.7b
JMA III 28 02 07 50.1–.20 38.43N 142.19E 28–2 4.0,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=36.0km s-min=25.3km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.9km az=151.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 02 09 07.7–1.2 36.73N–.06 141.10E–.09 48–10 3.6b 25 0-91
ISCJB III 28 02 09 06.7–.79 36.73N–.06 141.09E–.08 54–6 3.6b **¶17198886**
JMA III 28 02 09 08.0–.10 36.79N 140.98E 56–1 3.8
IDC III 28 02 09 09.2–3.6 36.69N 141.10E 62–34 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=7.8km az=39.2.
JMA Event type fe.
IDC Error ellipse: s-maj=27.4km s-min=17.8km az=111.0.
JMA III 28 02 35 32.0–.10 38.46N 142.18E 28–1 3.6
¶602700041
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 02 40 47.9–1.1 36.77N–.04 141.03E–.07 43–8 4.0b 38 0-83
NIED III 28 02 40 00 36.80N 141.00E 59 4.0W **¶600569518**
ISCJB III 28 02 40 46.7–.66 36.74N–.04 141.08E–.07 51–4 4.0b,3.1s
JMA III 28 02 40 47.7–.10 36.76N 141.00E 49–1 4.0,3.1s
IDC III 28 02 40 52.2–2.1 36.75N 140.85E 84–18 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ24.00000°,λ118.00000°. NP2:ϕ_s75.00000°,δ69.00000°,λ78.00000°. $M_0$9.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.1km az=17.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.7km s-min=15.5km az=117.0.
JMA III 28 02 42 16.0–.10 38.85N 142.13E 39–2 3.5
NIED III 28 02 42 00 38.90N 142.10E 62 4.7W **¶600569520**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ39.00000°,λ159.00000°. NP2:ϕ_s132.00000°,δ77.00000°,λ53.00000°. $M_0$1.48000×10^{16}
JMA III 28 02 48 30.7–.20 38.43N 142.18E 28–2 3.6
¶602699863
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 02 55 12.0–2.2 36.55N–.07 141.1E–.10 26–13 3.2b 12 0-57
IDC III 28 02 55 10.7–2.1 36.10N 140.83E 0 3.4,3.3b **¶600569535**
ISCJB III 28 02 55 11.7–1.8 36.55N–.07 141.1E–.10 36–16 3.2b,3.3b
JMA III 28 02 55 13.3–.10 36.62N 141.02E 44–1 3.7,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=45.5km s-min=24.8km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=18.8km s-min=9.8km az=22.7.
JMA Event type fe.
ISC III 28 03 19 33.2–1.2 39.44N–.04 142.55E–.05 30–8 4.5b,3.7s 142 1-145
NIED III 28 03 19 00 39.50N 142.50E 38 4.5W,3.7s **¶600569556**
JMA III 28 03 19 33.2–.10 39.45N 142.49E 35–2 4.4,3.7s
ISCJB III 28 03 19 33.4–.54 39.40N–.03 142.47E–.04 43–4 4.4b,3.7s
IDC III 28 03 19 35.9–1.9 39.36N 142.47E 55–18 4.3,4.1L
NEIC III 28 03 19 36.2–.60 39.38N 142.43E 56–6 4.6b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ47.00000°,λ-114.00000°. NP2:ϕ_s96.00000°,δ48.00000°,λ-66.00000°. $M_0$6.07000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=7.8.
IDC Error ellipse: s-maj=12.6km s-min=10.5km az=96.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=150.0.
ISC III 28 03 23 47.7–1.4 40.16N–.06 142.4E–.10 44–13 4.0b 44 0-144
NIED III 28 03 23 00 40.20N 142.40E 41 4.1W **¶602699796**
ISCJB III 28 03 23 46.8–.89 40.17N–.05 142.4E–.10 52–7 4.0b
JMA III 28 03 23 47.4–.10 40.17N 142.38E 36–1 3.9
IDC III 28 03 23 50.1–2.7 40.14N 142.37E 67–23 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ26.00000°,λ59.00000°. NP2:ϕ_s32.00000°,δ68.00000°,λ104.00000°. $M_0$1.54000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.9km az=171.2.
JMA Event type fe.
IDC Error ellipse: s-maj=16.0km s-min=15.4km az=135.0.
ISC III 28 03 31 53.1–.78 38.75N–.06 142.28E–.07 27 3.6b 23 1-73
ISCJB III 28 03 31 51.0–.71 38.73N–.06 142.43E–.06 27 3.6b **¶600569573**
JMA III 28 03 31 55.2–.10 38.77N 142.20E 34–2 4.1
IDC III 28 03 31 55.3–.67 38.77N 142.47E 51–6 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=164.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=14.5km az=102.0.
JMA III 28 03 33 31.9–.10 38.44N 142.20E 26–1 3.6
¶602699773
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 28 03 55 41.1–.10 38.75N 142.18E 32–2 3.6
¶602699740
JMA Event type fe.
ISC III 28 04 45 47.2–.89 36.42N–.08 141.08E–.07 32 3.6b 15 0-64
NIED III 28 04 45 00 36.50N 141.10E 41 3.7W **¶600569662**
IDC III 28 04 45 42.5–1.1 36.31N 140.93E 0 3.8,3.6
ISCJB III 28 04 45 45.1–.74 36.36N–.06 141.30E–.06 32 3.5b,3.6
JMA III 28 04 45 47.7–.10 36.47N 141.12E 47–2 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ34.00000°,λ-6.00000°. NP2:ϕ_s298.00000°,δ87.00000°,λ-124.00000°. $M_0$3.61000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=22.9km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.7km az=21.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 05 02 01.9–2.2 36.62N–.08 141.1E–.10 13–12 19 0-44
IDC III 28 05 01 60.0–5.7 36.74N 141.19E 0 3.5b,3.4 **¶17198906**
NIED III 28 05 02 00 36.60N 141.00E 8 3.5W,3.4
JMA III 28 05 02 03.5–.10 36.61N 141.02E 32–1 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=96.0km s-min=43.9km az=145.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ38.00000°,λ-161.00000°. NP2:ϕ_s46.00000°,δ79.00000°,λ-54.00000°. $M_0$2.15000×10^{14}
JMA Event type fe.
JMA III 28 05 17 07.3–.10 38.42N 142.23E 25–2 3.5
¶602699655
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 05 24 31.3–1.5 36.32N–.04 141.93E–.05 12–8 4.6b,4.0s 217 1-147

IDC III 28 05 24 29.5–.49 36.28N 141.86E 0 4.5,4.4 ¶16364039
BJI III 28 05 24 30.1 36.33N 141.68E 10 4.8b,4.7b
ISCJB III 28 05 24 31.9–.88 36.32N–.03 141.94E–.04 28–6 4.5b,3.9s
MOS III 28 05 24 32.8–.91 36.31N 141.84E 33 4.9b,3.9s
JMA III 28 05 24 33.0–.20 36.38N 141.85E 62–4 4.4,3.9s
NEIC III 28 05 24 35.6–.69 36.24N 141.92E 46–6 4.6b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.9km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=35.8.
MOS Error ellipse: s-maj=8.5km s-min=5.4km az=110.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.6km az=61.0.
ISC III 28 05 28 22.1–.73 36.29N–.07 141.85E–.07 19 3.8b 26 1-147
NIED III 28 05 28 00 36.30N 141.80E 17 3.8W ¶17198909
IDC III 28 05 28 18.8–.88 36.24N 141.97E 0 3.9,3.7
ISCJB III 28 05 28 19.8–.61 36.26N–.06 142.07E–.06 19 3.7b,3.7
JMA III 28 05 28 22.5–.20 36.29N 141.82E 73–5 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ34.00000°,λ47.00000°. NP2:ϕ_s34.00000°,δ66.00000°,λ115.00000°. $M_0$6.23000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=20.6km az=3.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.6km az=150.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 28 05 44 56.5–.47 36.36N–.03 141.83E–.03 27–2 5.2b,5.1s 740 1-148
NIED III 28 05 44 00 36.40N 141.90E 29 5.2W,5.1s ¶16364042
BJI III 28 05 44 52.8 36.40N 141.56E 11 5.3b,5.3s
JMA III 28 05 44 54.7–.20 36.36N 141.86E 73–5 5.3,5.3s
ISCJB III 28 05 44 55.1–.69 36.35N–.02 141.75E–.02 26–4 5.2b,5.0s
IDC III 28 05 44 57.4–3.8 36.33N 141.79E 33–28 4.9,4.8
MOS III 28 05 44 57.7–.85 36.73N 141.68E 33 5.6b,5.2s
NEIC III 28 05 44 58.4–.50 36.36N 141.73E 39–4 5.2W,5.1b
GCMT III 28 05 44 58.4–.20 36.29N 141.99E 28–0 5.2W,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ25.00000°,λ84.00000°. NP2:ϕ_s16.00000°,δ65.00000°,λ93.00000°. $M_0$6.95000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=153.3.
IDC Error ellipse: s-maj=12.5km s-min=9.3km az=100.0.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=108.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=148.0. Moment Tensor Solution. s24 Moment tensor: Scale 10^{16}Nm; M_{rr}5.70 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-6.56 $M_{r\theta}$-0.13 $M_{\theta\phi}$-1.28 $M_{\phi r}$3.59 Best double couple: NP1:ϕ_s198.00000°,δ31.00000°,λ103.00000°. NP2:ϕ_s3.00000°,δ60.00000°,λ82.00000°. Principal axes: T 6.7100,Plg74.0000°,Azm253.0000°; N 0.9900,Plg7.0000°,Azm7.0000°; P -7.7000,Plg15.0000°,Azm98.0000° $M_0$7.30000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c112; s107,c192; Duration: 1$s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57±.02 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.54±.01; $M_{r\theta}$0.20±.02; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$0.61±.02; Best double couple: NP1:ϕ_s18.00000°,δ69.00000°,λ89.00000°. NP2:ϕ_s200.00000°,δ21.00000°,λ92.00000°. Principal axes: T 0.8510,Plg66.0000°,Azm287.0000°; N 0.0420,Plg1.0000°,Azm18.0000°; P -0.8930,Plg24.0000°,Azm109.0000° $M_0$0.87200×10^{17}
ISC III 28 06 18 32.8–2.0 37.59N–.05 141.79E–.06 1–12 3.9b 35 1-146
IDC III 28 06 18 33.5–.73 37.64N 141.85E 0 4.1,4.0 ¶17198911
JMA III 28 06 18 34.9–.10 37.60N 141.82E 16–2 4.2,4.0
ISCJB III 28 06 18 34.5–1.2 37.58N–.04 141.88E–.06 19–7 3.8b,4.0
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 28 06 46 14.9–.10 36.91N 141.10E 50–1 3.8
¶602699573
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 06 49 34.5–1.2 38.20N–.07 142.75E–.08 18 3.8b 17 1-117
IDC III 28 06 49 29.9–.75 38.00N 144.50E 0 4.0,3.8 ¶17198914
JMA III 28 06 49 45.4–.20 38.29N 142.20E 34–2 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.8km s-min=18.7km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 28 06 51 03.1–.10 38.41N 142.18E 32–1 3.6
NIED III 28 06 51 00 38.40N 142.20E 5 4.3W ¶600569737
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ28.00000°,λ108.00000°. NP2:ϕ_s70.00000°,δ64.00000°,λ80.00000°. $M_0$3.55000×10^{15}
JMA III 28 06 53 50.3–.10 38.42N 142.21E 27–1 3.5
¶602699568
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 07 10 47.4–1.4 40.20N–.06 142.4E–.10 44–13 3.9b 40 0-88
NIED III 28 07 10 00 40.20N 142.40E 41 4.1W ¶602699432
ISCJB III 28 07 10 46.4–.88 40.23N–.05 142.40E–.10 52–8 3.9b
JMA III 28 07 10 47.2–.10 40.22N 142.38E 34–1 3.9
IDC III 28 07 10 49.8–2.6 40.20N 142.31E 67–23 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ18.00000°,λ0.00000°. NP2:ϕ_s54.00000°,δ90.00000°,λ108.00000°. $M_0$1.60000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=8.0km az=166.1.
JMA Event type fe.
IDC Error ellipse: s-maj=16.4km s-min=15.1km az=115.0.
ISC III 28 07 20 27.3–2.2 36.72N–.06 141.64E–.08 12–11 3.5b 25 1-61
IDC III 28 07 20 24.7–1.9 36.72N 141.85E 0 3.7,3.6 ¶600569797
ISCJB III 28 07 20 27.8–1.4 36.66N–.05 141.71E–.07 28–9 3.5b,3.6
JMA III 28 07 20 29.9–.20 36.67N 141.53E 46–3 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=47.7km s-min=24.0km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.7km az=19.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 28 07 32 42.1–.39 38.78N–.04 142.44E–.05 31–2 4.4b,3.9s 150 1-145
NIED III 28 07 32 00 38.80N 142.40E 38 4.4W,3.9s ¶16364047
BJI III 28 07 32 36.7 38.73N 142.90E 29 5.0b,4.6b
JMA III 28 07 32 41.5–.20 38.81N 142.43E 33–3 4.5,4.6b
IDC III 28 07 32 42.8–.43 38.80N 142.35E 35–2 4.3,4.2
ISCJB III 28 07 32 42.0–.62 38.79N–.03 142.40E–.05 43–5 4.4b,3.8s
NEIC III 28 07 32 43.0–.20 38.80N 142.42E 35 4.5b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ22.00000°,λ-19.00000°. NP2:ϕ_s237.00000°,δ83.00000°,λ-111.00000°. $M_0$4.76000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=10.6km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.1km az=35.8.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.2km az=137.0.
ISC III 28 07 35 02.6–.96 38.87N–.07 142.66E–.10 27 4.1b 27 1-145
IDC III 28 07 34 57.6–1.1 38.97N 143.01E 0 4.1,4.0 ¶16475478
ISCJB III 28 07 34 59.6–.74 38.85N–.06 142.94E–.09 27 4.1b,4.0
NIED III 28 07 35 00 38.80N 142.40E 35 4.0W,4.0
NEIC III 28 07 35 03.0–.51 38.93N 142.89E 35 4.4b,4.0
JMA III 28 07 35 04.2–.20 38.82N 142.42E 33–4 4.1,4.0
ISC Event type se.
IDC Error ellipse: s-maj=31.2km s-min=20.8km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=8.1km az=28.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s64.00000°,δ19.00000°,λ-60.00000°. NP2:ϕ_s213.00000°,δ74.00000°,λ-100.00000°. $M_0$1.12000×10^{15}
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.1km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 08 11 08.3–1.2 36.75N–.05 141.12E–.08 45–10 3.4b 25 0-60
NIED III 28 08 11 00 36.80N 140.90E 35 3.5W ¶17198920
IDC III 28 08 11 02.0–1.2 36.82N 141.38E 0 3.6,3.5
ISCJB III 28 08 11 07.5–.76 36.74N–.04 141.11E–.08 54–6 3.4b,3.5
JMA III 28 08 11 09.6–.10 36.79N 140.95E 53–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ62.00000°,λ150.00000°. NP2:ϕ_s196.00000°,δ64.00000°,λ32.00000°. $M_0$1.73000×10^{14}
IDC Error ellipse: s-maj=30.4km s-min=22.0km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.7km az=13.4.
JMA Event type fe.
ISC III 28 08 17 36.3–1.7 38.86N–.08 142.3E–.10 27 11 1-59
IDC III 28 08 17 29.3–3.1 39.03N 142.89E 0 3.5,3.4b ¶600569835
ISCJB III 28 08 17 37.4–1.9 38.86N–.07 142.2E–.10 27 3.4b,3.4b
JMA III 28 08 17 39.3–.10 38.86N 142.12E 41–2 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=72.4km s-min=39.9km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=10.1km az=2.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 28 08 26 44.4–.10 39.22N 142.46E 27–1 3.6
¶602699315
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 08 39 34.4–1.9 38.35N–.05 142.28E–.06 14–11 3.6b 31 1-89
NIED III 28 08 39 00 38.40N 142.30E 11 3.8W ¶17198925
ISCJB III 28 08 39 32.8–1.4 38.29N–.04 142.35E–.07 16–10 3.6b,2.7s
IDC III 28 08 39 32.0–.73 38.24N 142.50E 0 3.8,3.8
JMA III 28 08 39 34.8–.10 38.40N 142.29E 29–2 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ31.00000°,λ-32.00000°. NP2:ϕ_s300.00000°,δ74.00000°,λ-117.00000°. $M_0$5.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.3km az=21.1.
IDC Error ellipse: s-maj=23.5km s-min=14.3km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 28 09 11 02.9–2.3 39.02N–.04 142.35E–.09 15–13 3.5b 21 1-59
JMA III 28 09 11 02.9–.20 38.98N 142.46E 27–3 3.3 ¶17198927
IDC III 28 09 11 09.9–4.8 38.92N 142.11E 77–46 3.8,3.8s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=47.5km s-min=29.2km az=101.0.
ISC III 28 09 25 47.3–1.5 37.05N–.05 141.25E–.07 24–10 4.0b,3.6s 48 0-147
NIED III 28 09 25 00 37.00N 141.20E 11 4.0W,3.6s ¶16459624
JMA III 28 09 25 47.1–.10 37.02N 141.22E 32–1 4.5,3.6s
ISCJB III 28 09 25 47.2–.85 37.02N–.04 141.26E–.08 38–7 4.0b,3.7s
IDC III 28 09 25 50.4–1.9 37.01N 141.12E 50–18 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ53.00000°,λ-147.00000°. NP2:ϕ_s87.00000°,δ64.00000°,λ-43.00000°. $M_0$1.14000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.8km az=7.0.
IDC Error ellipse: s-maj=15.5km s-min=11.1km az=85.0.
ISC III 28 09 50 55.7–.53 36.30N–.05 141.86E–.06 19 4.2b,3.5s 56 1-147
IDC III 28 09 50 52.9–.59 36.31N 141.86E 0 4.1,4.1 ¶16459625
ISCJB III 28 09 50 53.9–.41 36.34N–.04 141.96E–.06 19 4.0b,3.4s
JMA III 28 09 50 56.9–.30 36.39N 141.78E 67 4.0,3.4s
NEIC III 28 09 50 57.9–.29 36.26N 141.81E 35 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=13.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.6km az=24.9.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.6km az=129.0.
ISC III 28 10 06 14.8–1.2 37.49N–.05 141.70E–.09 21–4 3.4b 23 1-58
NIED III 28 10 06 00 37.50N 141.50E 29 3.6W ¶17198933
IDC III 28 10 06 09.4–2.9 37.51N 142.09E 0 3.5,3.5b
ISCJB III 28 10 06 15.7–1.3 37.47N–.04 141.64E–.08 30–6 3.3b,3.5b
JMA III 28 10 06 17.9–.10 37.49N 141.50E 37–2 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ22.00000°,λ105.00000°. NP2:ϕ_s13.00000°,δ69.00000°,λ84.00000°. $M_0$3.15000×10^{14}
IDC Error ellipse: s-maj=67.1km s-min=34.0km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.8km az=15.8.
JMA III 28 10 21 57.4–.30 38.08N 142.50E 23–3 3.6
NIED III 28 10 21 00 38.10N 142.50E 20 3.5W ¶600569947
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ34.00000°,λ133.00000°. NP2:ϕ_s358.00000°,δ66.00000°,λ65.00000°. $M_0$2.05000×10^{14}
ISC III 28 11 08 10.9–1.0 36.79N–.03 140.52E–.04 8–7 4.0b 47 0-147
NIED III 28 11 08 00 36.70N 140.60E 5 3.9W ¶16375917
IDC III 28 11 08 10.0–.70 36.87N 140.49E 0 4.2,4.0
JMA III 28 11 08 10.9 36.78N 140.56E 8–1 4.0,4.0
ISCJB III 28 11 08 10.5–.52 36.75N–.03 140.62E–.05 17–3 4.0b,4.0
NEIC III 28 11 08 14.8–.33 36.80N 140.42E 35 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ32.00000°,λ-99.00000°. NP2:ϕ_s156.00000°,δ59.00000°,λ-85.00000°. $M_0$8.43000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=11.2km az=161.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s155.00000°,δ49.00000°,λ-75.00000°. NP2:ϕ_s312.00000°,δ43.00000°,λ-107.00000°. Principal axes: T Plg3.0000°,Azm234.0000°; N Plg11.0000°,Azm325.0000°; P Plg78.0000°,Azm127.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=17.4.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=142.0. Recorded [3 JMA] in Ibaraki.
IDC III 28 11 43 48.7–3.1 36.82N 141.76E 0 3.6,3.4
¶17198941
IDC Error ellipse: s-maj=74.4km s-min=35.8km az=57.0.
ISC III 28 12 39 13.1–1.7 39.22N–.05 142.21E–.09 30–11 3.8b,3.4s 25 0-85
NIED III 28 12 39 00 39.30N 142.20E 44 4.1W,3.4s ¶17198947
IDC III 28 12 39 08.4–1.2 39.16N 142.19E 0 4.0,3.8b
ISCJB III 28 12 39 13.9–1.1 39.28N–.05 142.3E–.10 49–8 3.8b,3.5s
JMA III 28 12 39 14.5–.10 39.28N 142.24E 43–1 3.7,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ15.00000°,λ59.00000°. NP2:ϕ_s27.00000°,δ77.00000°,λ98.00000°. $M_0$1.49000×10^{15}
IDC Error ellipse: s-maj=30.9km s-min=20.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=16.4km s-min=6.8km az=13.5.
JMA Event type fe.
IDC III 28 12 53 53.9–3.3 36.19N 141.39E 0 3.4,3.2
¶17198949
IDC Error ellipse: s-maj=82.2km s-min=32.5km az=57.0.
ISC III 28 13 00 26.7–1.1 36.78N–.05 140.59E–.08 13–9 7 0-57
ISCJB III 28 13 00 25.8–1.2 36.73N–.08 140.7E–.20 21–8 3.7b ¶603049277
JMA III 28 13 00 26.9 36.79N 140.55E 8–1 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.5km s-min=9.3km az=24.7.
ISC III 28 14 01 35.2–2.4 39.16N–.05 142.6E–.10 16–12 16 1-59
NIED III 28 14 01 00 39.20N 142.40E 59 4.1W ¶17198960
IDC III 28 14 01 30.2–3.4 39.60N 143.03E 0 3.9,3.9s
ISCJB III 28 14 01 37.6–2.0 39.16N–.05 142.5E–.10 15–12 4.3s,3.4b
JMA III 28 14 01 38.8–.10 39.17N 142.43E 32–2 3.8,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ47.00000°,λ60.00000°. NP2:ϕ_s293.00000°,δ51.00000°,λ118.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=75.6km s-min=43.8km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=7.2km az=9.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 14 13 56.0–.82 39.26N–.04 142.29E–.07 43–6 4.3b,3.3s 69 0-81
NIED III 28 14 13 00 39.30N 142.20E 47 4.2W,3.3s ¶16375918
ISCJB III 28 14 13 55.2–.64 39.27N–.03 142.29E–.07 52–4 4.2b,3.3s
JMA III 28 14 13 56.1–.10 39.29N 142.24E 43–1 4.1,3.3s
IDC III 28 14 13 58.0–2.2 39.22N 142.21E 63–20 4.1,3.9
NEIC III 28 14 13 58.3–.63 39.22N 142.31E 68–6 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s15.00000°,δ71.00000°,λ92.00000°. $M_0$2.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.1km az=14.4.
JMA Event type fe.
IDC Error ellipse: s-maj=16.5km s-min=13.6km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.5km az=99.0. Recorded [3 JMA] in Iwate.
JMA III 28 14 36 19.0–.10 38.41N 142.20E 27–1 3.7
NIED III 28 14 36 00 38.40N 142.20E 20 3.9W ¶600570185
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ61.00000°,λ169.00000°. NP2:ϕ_s114.00000°,δ80.00000°,λ29.00000°. $M_0$6.69000×10^{14}

ISC III 28 14 44 55.7–1.8 39.55N–.04 142.81E–.06 13–10 4.4b 87 1-89
NIED III 28 14 44 00 39.60N 142.90E 8 4.2W **¶602699498**
JMA III 28 14 44 54.1–.10 39.57N 142.91E 20–2 4.4
NEIC III 28 14 44 59.2–.26 39.59N 142.77E 35 4.5b
IDC III 28 14 45 01.1–2.1 39.51N 142.80E 58–19 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ47.00000°,λ-110.00000°. NP2:ϕ_s25.00000°,δ47.00000°,λ-70.00000°. $M_0$2.23000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.2km az=138.0.
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=131.0.

ISC III 28 14 50 56.1–3.2 38.40N–.05 142.24E–.09 2–19 3.8b 27 1-76
NIED III 28 14 50 00 38.40N 142.20E 23 3.8W **¶16475423**
IDC III 28 14 50 55.7–.87 38.35N 142.23E 0 3.9,3.9L
JMA III 28 14 50 58.9–.10 38.45N 142.24E 28–2 4.2,3.9L
NEIC III 28 14 51 01.7–1.1 38.36N 142.22E 43–10 4.0b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ17.00000°,λ-51.00000°. NP2:ϕ_s263.00000°,δ77.00000°,λ-101.00000°. $M_0$6.05000×10^{14}
IDC Error ellipse: s-maj=32.2km s-min=17.2km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=8.0km az=111.0.

JMA III 28 14 54 20.9–.10 38.52N 142.18E 27–2 3.6
NIED III 28 14 54 00 38.50N 142.20E 44 4.0W **¶17198962**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ9.00000°,λ103.00000°. NP2:ϕ_s144.00000°,δ81.00000°,λ88.00000°. $M_0$1.30000×10^{15}

ISC III 28 15 06 12.4–1.3 36.02N–.06 141.1E–.10 31 3.4b 12 0-60
NIED III 28 15 06 00 36.00N 141.10E 17 3.4W **¶600570213**
IDC III 28 15 06 06.3–2.7 36.31N 141.46E 0 3.5,3.4b
JMA III 28 15 06 11.7–.10 35.98N 141.13E 34–2 3.5,3.4b
ISCJB III 28 15 06 11.4–1.0 35.99N–.06 141.1E–.10 31 3.3b,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ12.00000°,λ66.00000°. NP2:ϕ_s190.00000°,δ79.00000°,λ95.00000°. $M_0$1.65000×10^{14}
JMA Event type fe.
ISCJB Event type fe.

ISC III 28 16 30 55.6–1.9 38.23N–.05 141.9E–.10 43–17 3.7b 24 0-62
NIED III 28 16 30 00 38.30N 141.80E 59 3.7W **¶600570274**
IDC III 28 16 30 47.8–1.9 38.37N 142.42E 0 3.8,3.7
ISCJB III 28 16 30 54.4–1.3 38.21N–.04 141.9E–.10 52–9 4.7s,3.7b
JMA III 28 16 30 56.6–.10 38.27N 141.79E 47–1 4.2,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ47.00000°,λ-28.00000°. NP2:ϕ_s340.00000°,δ70.00000°,λ-133.00000°. $M_0$3.73000×10^{14}
IDC Error ellipse: s-maj=47.3km s-min=21.1km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=19.2km s-min=6.8km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 28 16 41 40.3–.82 36.67N–.04 141.19E–.07 32 3.7b 34 1-74
NIED III 28 16 41 00 36.70N 141.10E 44 3.6W **¶600570285**
IDC III 28 16 41 34.6–1.1 36.68N 141.37E 0 3.9,3.8
ISCJB III 28 16 41 38.2–.58 36.65N–.04 141.34E–.05 32 3.7b,3.8
JMA III 28 16 41 41.9–.10 36.70N 141.08E 45–1 3.7,3.8
NEIC III 28 16 41 42.3–1.5 36.62N 141.18E 55–11 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ44.00000°,λ126.00000°. NP2:ϕ_s189.00000°,δ56.00000°,λ61.00000°. $M_0$2.80000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=19.8km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.1km az=18.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=11.4km az=142.0.

JMA III 28 16 56 32.5–.10 38.44N 142.19E 29–1 3.5
¶602698636
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 28 17 14 28.7–.93 38.19N–.07 142.44E–.06 14 3.5b 21 1-76
NIED III 28 17 14 00 38.20N 142.40E 47 3.7W **¶17198977**
IDC III 28 17 14 26.2–2.1 38.13N 142.56E 0 3.7,3.5
ISCJB III 28 17 14 27.2–.71 38.14N–.06 142.56E–.05 14 3.5b,3.5
JMA III 28 17 14 30.6–.20 38.18N 142.45E 33–2 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ29.00000°,λ79.00000°. NP2:ϕ_s38.00000°,δ62.00000°,λ96.00000°. $M_0$4.17000×10^{14}
IDC Error ellipse: s-maj=51.1km s-min=23.1km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.7km az=167.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 28 17 22 02.8–1.0 36.71N–.04 140.62E–.08 10–6 3.5b 17 0-60
IDC III 28 17 22 01.4–1.1 36.66N 140.56E 0 3.7,3.5 **¶17198978**
ISCJB III 28 17 22 01.8–.91 36.66N–.04 140.71E–.09 17–5 3.5b,3.5
JMA III 28 17 22 03.0 36.71N 140.62E 7–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=21.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=5.9km az=22.7.
JMA Event type fe.

JMA III 28 17 37 52.6–.10 37.64N 141.88E 20–2 3.5
¶602698545
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA III 28 18 02 24.0–.10 39.24N 142.46E 32–1 1.9
¶600570359
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 28 18 22 39.5–1.0 36.35N–.08 140.96E–.09 32 3.6b 21 1-147
NIED III 28 18 22 00 36.30N 140.80E 23 3.5W **¶602698445**
IDC III 28 18 22 32.9–1.2 36.61N 141.63E 0 3.8L,3.6
ISCJB III 28 18 22 37.8–.79 36.34N–.06 141.03E–.07 32 3.6b,3.6
NEIC III 28 18 22 38.4–1.1 36.45N 141.31E 35 4.3b,3.6
JMA III 28 18 22 40.2–.10 36.32N 140.83E 41–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ18.00000°,λ143.00000°. NP2:ϕ_s30.00000°,δ79.00000°,λ75.00000°. $M_0$2.08000×10^{14}
IDC Error ellipse: s-maj=38.0km s-min=19.9km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=37.9.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=15.5km az=55.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 28 18 47 30.1–.96 35.43N–.06 141.47E–.08 25 3.7b 20 1-59
IDC III 28 18 47 27.7–1.0 35.56N 141.31E 0 3.9,3.7 **¶17198984**
JMA III 28 18 47 28.3–.20 35.49N 141.49E 13–2 3.4,3.7
ISCJB III 28 18 47 29.1–.74 35.46N–.05 141.43E–.08 25 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.

ISC III 28 19 02 50.0–1.6 38.25N–.07 142.20E–.09 14 3.4b 14 1-62
NIED III 28 19 02 00 38.40N 142.20E 32 3.8W **¶600570429**
ISCJB III 28 19 02 48.9–1.1 38.25N–.08 142.32E–.08 14 3.3b
JMA III 28 19 02 52.0–.10 38.37N 142.21E 32–1 3.8
IDC III 28 19 02 52.6–1.3 37.64N 142.55E 0 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ31.00000°,λ140.00000°. NP2:ϕ_s175.00000°,δ71.00000°,λ65.00000°. $M_0$5.23000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=8.6km az=14.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.4km s-min=27.9km az=102.0.

JMA III 28 20 01 35.6–.10 36.18N 141.23E 30–2 3.9
NIED III 28 20 01 00 36.20N 141.20E 8 3.4W **¶600570501**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ31.00000°,λ-121.00000°. NP2:ϕ_s38.00000°,δ64.00000°,λ-73.00000°. $M_0$1.28000×10^{14}

JMA III 28 20 14 29.8–.20 37.43N 141.89E 23–3 3.5
NIED III 28 20 14 00 37.40N 141.90E 47 3.5W **¶600570515**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ31.00000°,λ-118.00000°. NP2:ϕ_s218.00000°,δ63.00000°,λ-74.00000°. $M_0$2.07000×10^{14}

ISC III 28 20 16 26.6–1.3 36.22N–.04 141.9E–.10 19 3.6b 19 1-56
IDC III 28 20 16 22.6–2.6 36.21N 142.17E 0 3.7,3.7b **¶17198987**
ISCJB III 28 20 16 24.1–1.1 36.26N–.04 142.11E–.10 19 3.6b,3.7b
JMA III 28 20 16 27.9–.20 36.29N 141.80E 64–5 2.9,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=59.8km s-min=26.4km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.8km az=175.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC III 28 21 01 50.1–1.6 37.41N–.03 141.32E–.06 6–10 3.4b 28 1-74
NIED III 28 21 01 00 37.40N 141.30E 32 3.5W **¶17198992**
ISCJB III 28 21 01 50.2–.94 37.40N–.03 141.41E–.07 23–6 3.4b
JMA III 28 21 01 51.9–.10 37.44N 141.30E 28–1 3.8
IDC III 28 21 01 58.9–3.0 37.24N 140.95E 75–27 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ42.00000°,λ-28.00000°. NP2:ϕ_s245.00000°,δ72.00000°,λ-128.00000°. $M_0$2.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=4.9km az=7.7.
JMA Event type fe.
IDC Error ellipse: s-maj=32.7km s-min=15.7km az=76.0.

JMA III 28 21 50 12.8–.10 37.66N 141.97E 18–2 3.6
¶602698221
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 28 22 00 39.1–2.0 37.25N–.06 141.65E–.10 27–12 3.6b 20 1-57
IDC III 28 22 00 32.7–2.4 37.24N 142.20E 0 3.6,3.6b **¶17198997**
ISCJB III 28 22 00 40.8–1.8 37.28N–.06 141.6E–.10 33–8 3.6b,3.6b
JMA III 28 22 00 42.8–.10 37.29N 141.35E 50–1 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=61.7km s-min=29.9km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=7.5km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 28 22 34 43.0–.20 38.99N 142.50E 26–3 3.5
¶602698187
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 28 22 50 28.1–1.6 37.69N–.06 141.76E–.09 24 3.5b 11 1-58
JMA III 28 22 50 27.8–.10 37.69N 141.78E 18–2 3.1 **¶17199007**
ISCJB III 28 22 50 27.0–1.3 37.67N–.06 141.83E–.09 24 3.4b
IDC III 28 22 50 28.8–2.5 37.00N 142.64E 0 3.6b,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=8.0km az=6.4.
IDC Error ellipse: s-maj=67.6km s-min=27.9km az=65.0.

JMA III 28 23 02 39.1–.20 37.68N 141.91E 22–3 3.4
¶16459630
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 28 23 12 39.6–.20 37.70N 141.99E 22–4 3.6
¶602698118
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 28 23 25 24.0–.20 37.77N 141.98E 18–3 3.8
¶602698098
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 28 23 51 31.0–.86 39.36N–.04 142.17E–.06 52–7 4.6b,3.6s 150 0-145
NIED III 28 23 51 00 39.30N 142.00E 53 4.5W,3.6s **¶16375927**
BJI III 28 23 51 22.8 39.13N 142.64E 33 4.8b,4.8b
ISCJB III 28 23 51 30.2–.47 39.35N–.03 142.07E–.05 59–3 4.6b,3.5s
JMA III 28 23 51 31.1–.10 39.34N 142.05E 49–1 4.3,3.5s
NEIC III 28 23 51 33.2–.75 39.30N 141.98E 73–7 4.9b,3.5s
IDC III 28 23 51 33.8–2.1 39.36N 141.97E 75–18 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ23.00000°,λ73.00000°. NP2:ϕ_s29.00000°,δ68.00000°,λ97.00000°. $M_0$6.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.2km az=24.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.6km az=132.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.3km s-min=11.4km az=128.0.

ISC III 29 00 22 32.3–.88 38.43N–.06 142.26E–.10 21–6 4.0s,3.7b 28 1-89
NIED III 29 00 22 00 38.40N 142.30E 20 4.0W,3.7b **¶602702741**
IDC III 29 00 22 28.9–.73 38.40N 142.29E 0 3.9,3.7
ISCJB III 29 00 22 31.5–1.3 38.39N–.05 142.31E–.06 28–8 4.0s,3.7b
JMA III 29 00 22 32.2–.10 38.42N 142.27E 30–2 4.0,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ31.00000°,λ-57.00000°. NP2:ϕ_s310.00000°,δ64.00000°,λ-108.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=21.4km s-min=17.5km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.6km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 29 02 24 02.6–1.9 38.98N–.05 142.46E–.07 16–10 3.9b 43 1-149
NIED III 29 02 24 00 39.00N 142.50E 35 4.1W **¶17199017**
JMA III 29 02 24 04.0–.10 39.03N 142.46E 33–2 4.1
IDC III 29 02 24 08.4–2.5 38.97N 142.39E 63–23 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ36.00000°,λ-118.00000°. NP2:ϕ_s151.00000°,δ59.00000°,λ-71.00000°. $M_0$1.81000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=14.0km az=113.0.

JMA III 29 02 27 19.0–.10 38.42N 142.27E 25–2 3.8
NIED III 29 02 27 00 38.40N 142.30E 47 4.3W **¶600570822**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ6.00000°,λ173.00000°. NP2:ϕ_s152.00000°,δ89.00000°,λ85.00000°. $M_0$2.86000×10^{15}

JMA III 29 02 29 14.9–.10 38.45N 142.21E 27–1 3.8
NIED III 29 02 29 00 38.40N 142.20E 50 4.2W **¶600570823**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ15.00000°,λ-35.00000°. NP2:ϕ_s150.00000°,δ81.00000°,λ-103.00000°. $M_0$2.57000×10^{15}

JMA III 29 03 25 50.9–.10 37.41N 141.62E 42–2 3.7
NIED III 29 03 25 00 37.40N 141.60E 32 3.5W **¶600570882**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ65.00000°,λ-23.00000°. NP2:ϕ_s288.00000°,δ69.00000°,λ-153.00000°. $M_0$1.88000×10^{14}

ISC III 29 04 11 48.3–3.1 38.52N–.08 142.1E–.20 23–18 17 1-44
IDC III 29 04 11 30.6–7.8 38.36N 144.00E 0 3.7,3.7 **¶600570931**
JMA III 29 04 11 50.1–.10 38.57N 142.07E 44–1 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=127.8km s-min=56.6km az=120.0.
JMA Event type fe.

ISC III 29 04 20 59.2–1.4 36.79N–.07 141.05E–.10 45–9 3.5b 20 0-90
NIED III 29 04 20 00 36.80N 141.00E 50 3.6W **¶600570940**
ISCJB III 29 04 20 58.5–1.0 36.78N–.06 141.06E–.09 52–6 3.5b
JMA III 29 04 20 59.7–.10 36.79N 140.99E 48–1 3.5
IDC III 29 04 21 04.5–3.7 36.71N 140.65E 90–30 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ18.00000°,λ114.00000°. NP2:ϕ_s29.00000°,δ74.00000°,λ83.00000°. $M_0$2.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=8.4km az=29.4.
JMA Event type fe.
IDC Error ellipse: s-maj=42.6km s-min=23.4km az=70.0.

ISC III 29 05 12 13.0–2.3 36.61N–.07 141.30E–.09 14–12 3.8b 16 1-95
IDC III 29 05 12 10.8–2.4 36.64N 141.43E 0 3.7b,3.7 **¶600571002**
ISCJB III 29 05 12 13.5–1.6 36.58N–.06 141.30E–.10 28–7 3.8s,3.7b
JMA III 29 05 12 14.5–.10 36.60N 141.22E 38–1 3.2,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=29.8km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=9.4km az=23.6.

ISC III 29 05 16 13.6–2.4 36.49N–.07 141.22E–.10 25–14 20 1-57
NIED III 29 05 16 00 36.60N 141.00E 50 3.5W **¶17199033**
ISCJB III 29 05 16 15.4–1.4 36.53N–.06 141.1E–.10 39–13 3.4b
JMA III 29 05 16 16.6–.10 36.57N 141.00E 47–1 3.5
IDC III 29 05 16 17.9–6.9 36.23N 141.02E 53–55 3.4,3.4L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ28.00000°,λ92.00000°. NP2:ϕ_s30.00000°,δ62.00000°,λ89.00000°. $M_0$1.94000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=7.6km az=33.3.
JMA Event type fe.
IDC Error ellipse: s-maj=51.5km s-min=29.6km az=68.0.
ISC III 29 05 23 07.2–.97 35.88N–.06 140.96E–.08 31 3.7b 15 0-65
IDC III 29 05 23 02.5–1.2 35.73N 141.13E 0 3.9,3.6 **¶602702046**
ISCJB III 29 05 23 05.9–.74 35.95N–.06 141.04E–.07 31 3.7b,3.6
JMA III 29 05 23 07.7–.10 35.86N 140.89E 38–1 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=26.1km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.1km az=141.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 05 24 15.5–.85 35.89N–.05 140.94E–.08 31 3.9b 17 0-148
IDC III 29 05 24 10.2–.93 35.61N 141.18E 0 4.0,3.8 **¶600571011**
ISCJB III 29 05 24 14.7–.72 35.95N–.05 141.02E–.07 31 3.8b,3.8
JMA III 29 05 24 15.9–.10 35.86N 140.90E 38–1 3.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=36.4km s-min=19.7km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.8km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 05 25 05.8–.10 39.27N 142.33E 32–1 3.7
NIED III 29 05 25 00 39.30N 142.30E 50 4.1W **¶600571013**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ44.00000°,λ122.00000°. NP2:ϕ_s103.00000°,δ54.00000°,λ63.00000°. M_o1.67000×10^{15}
ISC III 29 06 14 48.5–.91 35.95N–.07 141.50E–.08 26 3.5b 13 1-76
ISCJB III 29 06 14 47.2–.77 35.99N–.07 141.54E–.08 26 3.5b **¶600571073**
JMA III 29 06 14 48.2–.20 35.94N 141.50E 38–2 3.3
IDC III 29 06 14 48.6–.92 36.79N 141.32E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.7km az=151.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.1km s-min=22.5km az=119.0.
ISC III 29 07 04 57.6–.47 37.47N–.03 141.33E–.04 28–3 4.6b,3.9s 234 1-147
NIED III 29 07 04 00 37.40N 141.40E 29 4.2W,3.9s **¶16375935**
JMA III 29 07 04 56.9–.10 37.45N 141.37E 31–2 4.3,3.9s
BJI III 29 07 04 56.2 37.40N 141.62E 42 4.9b,4.7b
MOS III 29 07 04 57.1–.99 37.49N 141.30E 37 4.8b,4.7b
ISCJB III 29 07 04 57.4–.43 37.45N–.02 141.30E–.04 39–3 4.6b,4.0s
IDC III 29 07 04 57.6–.51 37.47N 141.27E 27–2 4.4,4.3
NEIC III 29 07 05 00.2–.47 37.50N 141.22E 47–4 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ-15.00000°. NP2:ϕ_s251.00000°,δ84.00000°,λ-113.00000°. M_o2.48000×10^{15}
JMA Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=5.4km az=91.4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=22.6.
IDC Error ellipse: s-maj=12.0km s-min=10.7km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=128.0. Recorded [3 JMA] in Fukushima.
ISC III 29 07 06 53.8–1.9 39.47N–.06 142.5E–.10 20–13 4.2b 23 1-118
IDC III 29 07 06 50.6–1.2 39.37N 142.55E 0 4.0,3.9b **¶16475586**
JMA III 29 07 06 53.6–.10 39.47N 142.54E 23–2 4.2,3.9b
ISCJB III 29 07 06 54.0–1.3 39.46N–.06 142.53E–.10 34–11 4.0b,3.3s
NEIC III 29 07 06 56.5–1.6 39.39N 142.61E 46–15 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=31.6km s-min=26.7km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=9.6km az=18.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=12.0km az=128.0.
ISC III 29 07 14 39.2–.95 35.80N–.04 140.84E–.07 11–6 3.4b 18 0-79
NIED III 29 07 14 00 35.80N 140.90E 8 3.5W **¶17199042**
IDC III 29 07 14 37.1–1.0 35.64N 140.84E 0 3.7,3.5
ISCJB III 29 07 14 38.1–1.1 35.85N–.04 140.94E–.07 8–7 3.3b,3.5
JMA III 29 07 14 39.3–.10 35.81N 140.86E 9–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ46.00000°,λ-55.00000°. NP2:ϕ_s156.00000°,δ54.00000°,λ-121.00000°. M_o2.05000×10^{14}
IDC Error ellipse: s-maj=28.4km s-min=23.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.5km az=0.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 07 40 44.5–1.6 36.70N–.05 140.7E–.10 7–8 3.6b 13 0-64
IDC III 29 07 40 43.2–2.1 36.65N 140.66E 0 3.7,3.6 **¶17199044**
ISCJB III 29 07 40 43.2–1.3 36.67N–.07 140.8E–.10 11–5 3.5s,3.4b
JMA III 29 07 40 44.8 36.71N 140.64E 6–1 3.2,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=17.4km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=8.4km az=33.1.
JMA Event type fe.
JMA III 29 07 51 57.6–.10 38.39N 142.17E 33–2 3.5
NIED III 29 07 51 00 38.40N 142.20E 47 3.8W **¶600571177**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ21.00000°,λ-152.00000°. NP2:ϕ_s165.00000°,δ80.00000°,λ-71.00000°. M_o5.14000×10^{14}
ISC III 29 08 40 29.7–1.5 35.72N–.08 141.43E–.09 10 3.5b 11 0-56
IDC III 29 08 40 22.4–2.4 36.30N 142.96E 0 3.5,3.5 **¶17199052**
JMA III 29 08 40 30.0–.20 35.58N 141.40E 14–2 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=57.8km s-min=26.4km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 29 08 44 50.9–.10 37.48N 141.50E 37–2 2.8
¶602702341
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 29 08 45 06.3–.10 36.89N 141.05E 49–1 2.6
¶602702338
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 08 56 50.8–.10 38.42N 142.29E 36–3 3.5
¶602702306
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 09 22 11.7–2.4 36.8N–.20 141.9E–.10 18 3.4b 11 1-46
IDC III 29 09 21 56.1–10 35.27N 142.97E 0 3.5,3.5L **¶17199053**
JMA III 29 09 22 10.2–.40 36.64N 142.09E 50 2.9,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=246.9km s-min=97.5km az=175.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 29 09 23 45.1–1.7 39.21N–.05 142.35E–.08 29–11 3.9b 33 1-88
NIED III 29 09 23 00 39.20N 142.40E 32 4.0W **¶17199054**
JMA III 29 09 23 44.9–.10 39.23N 142.40E 33–1 3.9
ISCJB III 29 09 23 45.4–.95 39.22N–.04 142.35E–.10 46–8 3.8b,3.1s
IDC III 29 09 23 50.1–2.4 39.14N 142.25E 77–22 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ31.00000°,λ-72.00000°. NP2:ϕ_s191.00000°,δ61.00000°,λ-101.00000°. M_o1.30000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.6km az=10.0.
IDC Error ellipse: s-maj=16.8km s-min=14.8km az=91.0.
ISC III 29 09 48 13.6–1.0 36.80N–.04 140.56E–.08 11–9 13 0-57
IDC III 29 09 48 12.2–2.0 36.70N 140.56E 0 3.5,3.3 **¶602701859**
ISCJB III 29 09 48 13.0–1.0 36.75N–.05 140.7E–.10 19–6 3.3b,3.2s
JMA III 29 09 48 13.8 36.81N 140.54E 3–1 3.0,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=19.4km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=6.0km az=21.7.
JMA III 29 10 48 52.4–.20 37.29N 141.91E 26–3 3.5
¶602701502
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 11 02 26.0–.10 37.37N 141.31E 28–1 3.8
¶602701495
JMA Event type fe.
JMA III 29 11 14 02.8–.10 36.19N 140.01E 50–1 3.8
¶602701483
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ75.00000°,λ85.00000°. NP2:ϕ_s241.00000°,δ16.00000°,λ110.00000°. Principal axes: T Plg59.0000°,Azm303.0000°; N Plg5.0000°,Azm42.0000°; P Plg30.0000°,Azm135.0000°
JMA III 29 11 29 02.5–.20 38.45N 142.27E 35–3 3.6
¶602701455
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 29 12 05 22.3–.10 38.37N 142.13E 32–2 3.5
¶602701366
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 12 10 33.9–.10 36.48N 141.02E 46–1 3.6
¶602701361
JMA Event type fe.
JMA III 29 12 20 33.9–.10 39.20N 142.46E 30–2 3.5
¶602701346
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 12 24 53.0–.79 36.51N–.04 140.79E–.06 46–7 4.3b 67 0-117
NIED III 29 12 24 00 36.50N 140.70E 56 4.4W **¶16392141**
BJI III 29 12 24 50.3 36.16N 140.78E 50 4.6s,4.5b
ISCJB III 29 12 24 52.2–.41 36.52N–.03 140.78E–.05 55–3 4.2b,4.5b
JMA III 29 12 24 52.8–.10 36.50N 140.74E 51–1 4.2,4.5b
NEIC III 29 12 24 53.9–.64 36.50N 140.75E 55–6 4.6b,4.5b
IDC III 29 12 24 55.0–1.6 36.51N 140.68E 64–15 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ39.00000°,λ1.00000°. NP2:ϕ_s10.00000°,δ90.00000°,λ129.00000°. M_o5.29000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=15.6.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=105.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=13.9km s-min=9.8km az=84.0.
ISC III 29 13 28 29.5–1.9 39.39N–.05 142.87E–.06 5–11 3.5b 35 1-60
JMA III 29 13 28 28.2–.20 39.28N 142.99E 13–2 3.5 **¶17199071**
ISCJB III 29 13 28 28.8–1.4 39.31N–.04 143.00E–.07 16–8 3.4b
IDC III 29 13 28 29.8–1.4 39.58N 142.75E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=32.3.
IDC Error ellipse: s-maj=30.7km s-min=24.2km az=111.0.
JMA III 29 13 43 07.2–.10 38.46N 142.21E 27–3 3.5
¶600571585
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 13 44 41.4–.10 39.16N 142.39E 30–1 3.6
¶602701215
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 13 54 34.9–.10 39.07N 142.31E 31–1 3.5
¶602701204
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 14 15 57.4–.49 38.34N–.05 142.72E–.06 24 4.3b 85 1-89
IDC III 29 14 15 53.6–.54 38.35N 142.75E 0 4.2,4.1 **¶16392144**
JMA III 29 14 15 55.1–.20 38.41N 142.74E 19–3 4.3,4.1
ISCJB III 29 14 15 55.7–.36 38.37N–.04 142.73E–.04 24 4.2b,4.1
NEIC III 29 14 15 59.8–.64 38.35N 142.70E 44–5 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.0km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.9km az=160.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=116.0.
ISC III 29 14 22 32.5–.57 38.26N–.05 142.75E–.06 23 4.2b 59 1-89
IDC III 29 14 22 28.8–.56 38.24N 142.85E 0 4.1,4.1 **¶602701067**
JMA III 29 14 22 30.0–.40 38.29N 142.78E 3–4 4.2,4.1
ISCJB III 29 14 22 30.3–.40 38.22N–.04 142.90E–.05 23 4.1b,4.1
NEIC III 29 14 22 31.4–2.5 38.27N 142.87E 16–15 4.5b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=12.0km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.0km az=148.4.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.3km az=107.0.
ISC III 29 14 39 49.3–1.7 36.66N–.08 141.00E–.10 32 3.5b 10 0-57
ISCJB III 29 14 39 47.5–1.6 36.64N–.07 141.3E–.10 32 3.3b **¶600571653**
JMA III 29 14 39 48.5–.10 36.65N 141.14E 34–2 3.0
IDC III 29 14 39 51.2–1.7 35.80N 140.66E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.3km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=39.7km s-min=28.4km az=75.0.
ISC III 29 14 49 33.0–1.6 35.71N–.09 141.7E–.10 25 3.6s,3.5b 13 1-56
IDC III 29 14 49 28.6–3.1 36.12N 141.98E 0 3.6,3.6 **¶17199073**
JMA III 29 14 49 29.7–.20 35.70N 141.91E 47–3 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=86.5km s-min=29.7km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 14 58 57.0–2.7 38.92N–.06 142.6E–.10 16–13 3.4b 20 1-59
IDC III 29 14 58 52.5–2.9 39.12N 143.14E 0 3.6,3.5b **¶17199075**
ISCJB III 29 14 58 57.0–1.8 38.89N–.05 142.7E–.10 20–9 3.4b,3.5b
JMA III 29 14 58 58.7–.20 38.93N 142.57E 26–2 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=71.2km s-min=30.9km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=7.2km az=12.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 15 07 04.7–1.1 36.27N–.08 141.69E–.09 26 3.4b 13 1-56
IDC III 29 15 07 00.2–1.3 36.22N 141.91E 0 3.6,3.5 **¶17199076**
JMA III 29 15 07 02.9–.10 36.38N 141.83E 71–3 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=29.8km s-min=24.2km az=89.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 16 00 03.3–2.3 39.08N–.06 142.4E–.10 31–13 3.4b 15 1-63
IDC III 29 15 59 56.3–2.1 39.31N 143.05E 0 3.6,3.4b **¶17199081**
ISCJB III 29 16 00 03.5–1.6 39.10N–.06 142.4E–.20 51–14 3.4b,3.4b
JMA III 29 16 00 04.1–.10 39.10N 142.41E 35–2 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=47.0km s-min=31.0km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=23.3km s-min=9.1km az=13.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 16 03 58.1–.10 38.46N 142.20E 28–2 2.7
¶603049279
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 16 07 05.8–.20 38.72N 142.61E 25–3 3.6
¶602701664
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 16 32 31.0–1.0 38.23N–.07 142.20E–.08 30 3.7b 21 1-74
NIED III 29 16 32 00 38.20N 142.10E 50 3.6W **¶17199083**
IDC III 29 16 32 27.2–1.9 38.44N 142.15E 0 3.7,3.7
ISCJB III 29 16 32 29.7–.79 38.29N–.07 142.23E–.07 30 3.6b,3.7
JMA III 29 16 32 32.0–.20 38.25N 142.06E 43–3 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ44.00000°,λ70.00000°. NP2:ϕ_s160.00000°,δ49.00000°,λ108.00000°. M_o3.12000×10^{14}
IDC Error ellipse: s-maj=42.6km s-min=27.0km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.4km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 16 58 50.4–1.1 36.94N–.03 140.53E–.04 8–9 3.6b 21 0-57
IDC III 29 16 58 49.2–1.9 36.85N 140.55E 0 3.6,3.5 **¶17199088**
ISCJB III 29 16 58 50.5–.81 36.93N–.03 140.61E–.07 15–8 3.4b,3.5
JMA III 29 16 58 50.4 36.94N 140.54E 7–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=36.9km s-min=27.1km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.9km az=2.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s187.00000°,δ64.00000°,λ-94.00000°. NP2:ϕ_s16.00000°,δ26.00000°,λ-82.00000°. Principal axes: T Plg19.0000°,Azm280.0000°; N Plg4.0000°,Azm189.0000°; P Plg71.0000°,Azm88.0000°
JMA III 29 17 32 51.2–.20 38.85N 142.46E 34–3 3.6
¶602701533

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 17 39 39.8–2.4 38.36N–.05 142.11E–.08 24–17 3.9b 30 1-146
NIED III 29 17 39 00 38.40N 142.20E 32 3.9W **¶17199092**
JMA III 29 17 39 40.1–.10 38.41N 142.16E 34–2 3.9
ISCJB III 29 17 39 40.6–1.2 38.38N–.05 142.1E–.10 43–11 3.8b
IDC III 29 17 39 42.4–2.6 38.35N 142.08E 44–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ38.00000°,λ-147.00000°. NP2:ϕ_s176.00000°,δ71.00000°,λ-57.00000°. $M_0$8.68000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=7.6km az=9.1.
IDC Error ellipse: s-maj=25.0km s-min=14.3km az=97.0.
ISC III 29 17 45 51.7–.58 36.45N–.04 140.93E–.05 37–1 4.4b 129 0-147
NIED III 29 17 45 00 36.50N 140.70E 56 4.4W **¶16389126**
ISCJB III 29 17 45 51.4–.44 36.46N–.03 140.85E–.05 51–3 4.3b,3.6s
MOS III 29 17 45 52.0–.95 36.58N 140.80E 53 4.7b,3.6s
NEIC III 29 17 45 53.1–.52 36.50N 140.80E 48–5 4.4b,3.6s
JMA III 29 17 45 53.0 36.51N 140.73E 52–1 4.1,3.6s
IDC III 29 17 45 54.4–1.6 36.45N 140.72E 60–16 4.2,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ34.00000°,λ71.00000°. NP2:ϕ_s348.00000°,δ58.00000°,λ103.00000°. $M_0$3.94000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.3km az=16.7.
MOS Error ellipse: s-maj=10.6km s-min=6.5km az=95.6.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.7km az=121.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s148.00000°,δ48.00000°,λ77.00000°. NP2:ϕ_s347.00000°,δ44.00000°,λ104.00000°. Principal axes: T Plg80.0000°,Azm348.0000°; N Plg10.0000°,Azm157.0000°; P Plg2.0000°,Azm247.0000°
IDC Error ellipse: s-maj=14.2km s-min=10.3km az=87.0.
ISC III 29 18 09 28.5–1.6 36.65N–.04 141.93E–.05 13–9 4.4b 134 1-147
NIED III 29 18 09 00 36.70N 141.80E 20 4.2W **¶16392148**
IDC III 29 18 09 26.6–.54 36.65N 141.90E 0 4.2,4.2
ISCJB III 29 18 09 27.5–.00 36.63N–.03 141.96E–.04 17–7 4.3b,3.8s
NEIC III 29 18 09 29.6–1.9 36.68N 141.91E 18–11 4.6b,3.8s
JMA III 29 18 09 30.9–.20 36.70N 141.84E 49–5 4.4,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ11.00000°,λ-62.00000°. NP2:ϕ_s163.00000°,δ80.00000°,λ-95.00000°. $M_0$2.16000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.1km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.3km az=9.8.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 29 18 35 22.4–.20 38.42N 142.20E 29–2 2.8
¶603049280
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 18 43 06.3–1.3 35.80N–.06 141.2E–.10 31 3.6b 17 0-56
IDC III 29 18 43 00.4–2.5 35.93N 141.58E 0 3.7,3.6L **¶17199096**
ISCJB III 29 18 43 04.8–1.0 35.82N–.05 141.3E–.10 31 3.5b,3.6L
JMA III 29 18 43 07.0–.10 35.80N 141.12E 33–1 2.8,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=63.0km s-min=21.6km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=6.7km az=174.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 19 35 25.8–1.2 36.44N–.05 141.20E–.08 32 3.3b 19 1-56
IDC III 29 19 35 18.5–1.4 36.53N 142.06E 0 3.6L,3.5 **¶600572028**
JMA III 29 19 35 24.7–.10 36.42N 141.24E 38–2 3.4,3.5
ISCJB III 29 19 35 24.6–.90 36.39N–.05 141.24E–.07 32 3.3b,3.5
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 29 19 49 11.0–2.3 37.10N–.06 141.6E–.10 27–14 3.4b 19 1-49
ISCJB III 29 19 49 08.6–1.8 37.02N–.04 141.70E–.10 22–10 3.4b **¶17199105**
IDC III 29 19 49 09.3–3.9 37.47N 141.53E 0 3.5b,3.5
JMA III 29 19 49 11.9–.20 37.07N 141.52E 39–2 3.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.0km az=8.8.
IDC Error ellipse: s-maj=92.4km s-min=29.9km az=157.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 29 19 58 05.7–.10 38.35N 141.77E 51–1 3.9
¶602700620
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 20 30 47.2–.59 40.08N–.04 142.81E–.04 28–3 4.7b,4.3s 265 1-146
NIED III 29 20 30 00 40.10N 142.90E 26 4.7W,4.3s **¶16391158**
JMA III 29 20 30 45.9–.20 40.06N 142.88E 24–2 4.3,4.3s
ISCJB III 29 20 30 47.0–.49 40.01N–.03 142.83E–.04 40–3 4.6b,4.2s
MOS III 29 20 30 47.5–.87 40.10N 142.77E 40 4.9b,4.2s
BJI III 29 20 30 48.8 40.08N 142.51E 48 5.0b,4.8b
NEIC III 29 20 30 48.9–.48 40.00N 142.79E 42–4 4.7b,4.8b
IDC III 29 20 30 49.2–1.9 40.01N 142.82E 43–18 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ16.00000°,λ80.00000°. NP2:ϕ_s20.00000°,δ74.00000°,λ93.00000°. $M_0$1.19000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.1km az=37.8.
MOS Error ellipse: s-maj=8.2km s-min=5.0km az=106.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=120.0.
IDC Error ellipse: s-maj=14.3km s-min=11.5km az=101.0.
ISC III 29 20 38 31.2–1.9 36.49N–.04 141.25E–.08 24–13 3.6b 24 1-60
NIED III 29 20 38 00 36.50N 141.30E 17 3.5W **¶600572142**
IDC III 29 20 38 27.3–1.1 36.42N 141.42E 0 3.7,3.7L
ISCJB III 29 20 38 29.0–1.3 36.45N–.04 141.44E–.07 23–7 3.5b,3.7L
JMA III 29 20 38 31.6–.10 36.49N 141.28E 46–2 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ15.00000°,λ-120.00000°. NP2:ϕ_s183.00000°,δ77.00000°,λ-82.00000°. $M_0$2.12000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=17.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.5km az=3.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 29 20 48 52.8–2.8 35.67N 141.94E 0 3.3,3.2
¶17199111
IDC Error ellipse: s-maj=65.1km s-min=26.1km az=68.0.
ISC III 29 21 04 16.5–1.0 36.30N–.05 140.51E–.07 49–7 3.6b 23 0-56
NIED III 29 21 04 00 36.30N 140.50E 65 3.5W **¶17199113**
IDC III 29 21 04 08.3–2.2 36.52N 140.94E 0 3.6,3.5
ISCJB III 29 21 04 15.6–.71 36.28N–.04 140.51E–.08 58–5 3.4b,3.5
JMA III 29 21 04 16.3–.10 36.27N 140.48E 52–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ12.00000°,λ19.00000°. NP2:ϕ_s68.00000°,δ86.00000°,λ102.00000°. $M_0$2.30000×10^{14}
IDC Error ellipse: s-maj=56.9km s-min=22.8km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.7km az=2.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s62.00000°,δ78.00000°,λ90.00000°. NP2:ϕ_s242.00000°,δ12.00000°,λ90.00000°. Principal axes: T Plg57.0000°,Azm332.0000°; N Plg0.0000°,Azm62.0000°; P Plg33.0000°,Azm152.0000°
JMA III 29 21 06 09.6–.20 38.94N 142.38E 36–2 3.5
¶602700541
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 22 23 32.6–.58 36.09N–.04 141.39E–.06 37–1 4.5b,3.5s 124 1-147
NIED III 29 22 23 00 36.10N 141.40E 26 4.3W,3.5s **¶602700422**
BJI III 29 22 23 27.7 36.23N 141.49E 25 5.0b,4.6s
ISCJB III 29 22 23 31.4–.57 36.08N–.03 141.41E–.05 45–4 4.4b,3.5s
MOS III 29 22 23 31.0–.97 36.08N 141.43E 42 4.7b,3.5s
JMA III 29 22 23 31.8–.10 36.12N 141.36E 48–2 4.5,3.5s
NEIC III 29 22 23 32.6–.87 36.03N 141.44E 41–8 4.6b,3.5s
IDC III 29 22 23 33.0–2.5 36.08N 141.37E 40–22 4.1,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ48.00000°,λ3.00000°. NP2:ϕ_s245.00000°,δ88.00000°,λ138.00000°. $M_0$3.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=0.4.
MOS Error ellipse: s-maj=10.7km s-min=6.3km az=118.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.7km az=74.0.
IDC Error ellipse: s-maj=16.8km s-min=12.9km az=107.0.
ISC III 29 22 33 02.5–2.6 38.39N–.05 142.23E–.07 16–15 3.9b 33 1-68
NIED III 29 22 33 00 38.40N 142.20E 26 3.8W **¶602700409**
IDC III 29 22 33 00.1–.79 38.36N 142.39E 0 3.9,3.8
ISCJB III 29 22 33 02.0–1.3 38.42N–.04 142.29E–.07 25–8 3.8b,3.8
JMA III 29 22 33 03.4–.20 38.43N 142.21E 33–2 4.5,3.8
NEIC III 29 22 33 04.2–3.9 38.42N 142.28E 27–28 4.3b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ18.00000°,λ-60.00000°. NP2:ϕ_s253.00000°,δ74.00000°,λ-99.00000°. $M_0$5.58000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=14.8km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=7.0km az=17.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=9.6km az=103.0.
ISC III 29 22 41 12.8–1.6 36.20N–.10 142.0E–.10 23 3.2b 11 1-56
IDC III 29 22 41 08.3–3.0 36.29N 142.24E 0 3.5,3.3 **¶17199121**
JMA III 29 22 41 14.2–.30 36.19N 141.79E 58 2.8,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=81.5km s-min=29.3km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 29 22 46 43.4–1.9 40.95N–.06 142.9E–.10 33–13 3.5b 25 1-66
NIED III 29 22 46 00 40.90N 143.00E 26 3.5W **¶17199123**
IDC III 29 22 46 38.0–2.2 41.19N 143.17E 0 3.6,3.5b
JMA III 29 22 46 40.0–.10 40.86N 143.04E 0 3.7,3.5b
ISCJB III 29 22 46 42.4–.87 40.88N–.05 143.17E–.09 52–9 3.5b,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ83.00000°,λ178.00000°. NP2:ϕ_s9.00000°,δ88.00000°,λ7.00000°. $M_0$1.74000×10^{14}
ISCJB Event type ke.
ISC III 29 23 43 35.8–1.5 35.15N–.06 141.3E–.10 35 3.7b 13 1-59
ISCJB III 29 23 43 34.0–1.3 35.14N–.07 141.4E–.10 35 3.9s,3.6b **¶602700338**
JMA III 29 23 43 35.3–.10 35.19N 141.18E 31–3 2.9,3.6b
IDC III 29 23 43 41.0–2.1 34.30N 138.67E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=8.5km az=162.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=84.0km s-min=21.6km az=74.0.
JMA III 30 00 00 53.5 36.20N 140.90E 29–1 2.0
¶602704446
IDC III 30 00 01 30.1–10 34.90N 140.65E 0 3.7,3.5
¶603049281
IDC Error ellipse: s-maj=378.4km s-min=27.2km az=62.0.
JMA III 30 00 45 07.0–.10 39.07N 142.38E 28–1 3.5
¶602704397
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 30 00 59 12.0–.50 35.26N–.04 141.12E–.07 33 3.9b,3.5s 42 0-152
NIED III 30 00 59 00 35.40N 141.20E 29 4.4W,3.5s **¶602704387**
JMA III 30 00 59 09.6–.20 35.41N 141.23E 31–2 4.3,3.5s
ISCJB III 30 00 59 11.1–.42 35.39N–.04 141.14E–.07 33 3.9b,3.5s
IDC III 30 00 59 14.2–1.7 35.34N 141.07E 46–17 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ46.00000°,λ-121.00000°. NP2:ϕ_s171.00000°,δ52.00000°,λ-62.00000°. $M_0$3.77000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.5km az=14.4.
IDC Error ellipse: s-maj=16.8km s-min=11.5km az=87.0.
ISC III 30 01 33 37.6–.96 38.00N–.07 142.80E–.08 18 3.9b 32 1-74
JMA III 30 01 33 34.2–.30 37.97N 142.80E 2 4.2 **¶17199138**
ISCJB III 30 01 33 35.5–.70 37.96N–.06 142.90E–.06 18 3.8b
IDC III 30 01 33 41.4–3.5 37.92N 142.80E 51–28 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.1km az=171.4.
IDC Error ellipse: s-maj=31.3km s-min=20.7km az=102.0.
ISC III 30 01 38 05.5–1.9 38.55N–.06 141.9E–.10 41–15 21 0-59
IDC III 30 01 37 57.4–2.9 38.69N 142.44E 0 3.6,3.4L **¶17199140**
NIED III 30 01 38 00 38.50N 141.80E 41 3.5W,3.4L
ISCJB III 30 01 38 05.0–1.1 38.53N–.05 141.9E–.10 50–8 3.2b,3.4L
JMA III 30 01 38 05.8–.10 38.54N 141.83E 47–1 3.6,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=68.8km s-min=36.7km az=64.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ47.00000°,λ151.00000°. NP2:ϕ_s125.00000°,δ69.00000°,λ47.00000°. $M_0$1.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=7.4km az=19.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 30 01 39 35.5–.20 38.43N 142.27E 30–3 3.5
¶602704505
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 30 01 51 47.4–1.1 35.76N–.06 140.84E–.10 32–7 3.4b 13 0-59
JMA III 30 01 51 46.8–.10 35.76N 140.98E 34–1 3.0 **¶17199141**
IDC III 30 01 51 59.2–3.0 35.02N 139.03E 78–30 3.3,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=43.8km s-min=25.2km az=89.0.
ISC III 30 02 15 32.8–2.3 37.19N–.07 141.6E–.10 24–13 3.3b 19 1-64
JMA III 30 02 15 35.1–.10 37.19N 141.38E 49–1 3.2 **¶17199143**
IDC III 30 02 15 39.3–2.5 38.27N 140.57E 0 3.4,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=53.6km s-min=31.9km az=143.0.
ISC III 30 02 25 12.8–1.5 36.3N–.10 141.8E–.10 19 3.5b 11 2-56
JMA III 30 02 25 08.9–.30 36.26N 142.11E 58 3.1 **¶17199146**
IDC III 30 02 25 08.7–2.9 36.54N 142.14E 0 3.6,3.5b
ISCJB III 30 02 25 10.3–1.4 36.3N–.10 141.9E–.10 19 3.5b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 30 02 31 18.4–1.5 39.68N–.04 142.2E–.10 46–9 3.6b 28 0-60
IDC III 30 02 31 09.1–2.7 39.92N 143.00E 0 3.7,3.7b **¶17199147**
JMA III 30 02 31 18.9–.10 39.67N 142.13E 48–1 3.5,3.7b
ISCJB III 30 02 31 18.1–.96 39.69N–.04 142.1E–.10 55–5 3.5b,3.7b
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 30 02 46 18.3–.20 38.42N 142.17E 32–2 3.2
¶603145340
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 30 03 27 57.8–1.9 35.25N–.05 141.30E–.07 9–11 3.6b 23 1-79
IDC III 30 03 27 56.0–.97 35.26N 141.35E 0 3.8,3.7b **¶17199151**
ISCJB III 30 03 27 57.9–1.2 35.26N–.04 141.36E–.08 23–7 3.6b,3.7b
JMA III 30 03 27 59.7–.20 35.26N 141.19E 13–5 3.0,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=18.0km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.0km az=172.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 03 45 22.7–.90 38.76N–.05 142.44E–.08 24 3.5b 23 1-76
NIED III 30 03 45 00 38.80N 142.60E 23 3.6W **¶17199152**
ISCJB III 30 03 45 21.0–.73 38.73N–.05 142.56E–.07 24 3.5b
JMA III 30 03 45 21.9–.20 38.78N 142.57E 33–3 3.9
IDC III 30 03 45 29.1–4.1 38.64N 142.45E 83–40 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ36.00000°,λ-154.00000°. NP2:ϕ_s195.00000°,δ75.00000°,λ-57.00000°. $M_0$3.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.5km az=38.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=23.2km az=32.0.
ISC III 30 03 57 14.6–1.4 39.24N–.04 142.41E–.06 28–9 4.3b,3.7s 99 1-145
NIED III 30 03 57 00 39.20N 142.40E 32 4.2W,3.7s **¶16392157**
JMA III 30 03 57 14.3–.10 39.25N 142.40E 32–1 4.1,3.7s

ISCJB III 30 03 57 14.7–.59 39.24N–.03 142.39E–.05 42–5 4.2b,3.6s
NEIC III 30 03 57 17.8–.67 39.25N 142.36E 56–6 4.4b,3.6s
IDC III 30 03 57 18.4–2.1 39.14N 142.40E 62–19 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S321.00000°,δ26.00000°,λ-129.00000°. NP2:ϕ_S182.00000°,δ70.00000°,λ-73.00000°. $M_0$2.10000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=21.7.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.2km az=143.0.
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=118.0.
ISC III 30 04 29 44.0–3.7 39.13N–.05 142.79E–.07 17–23 3.6b 27 1-61
ISCJB III 30 04 29 42.9–1.4 39.11N–.05 142.90E–.07 23–9 3.5b **¶17199154**
JMA III 30 04 29 43.0–.30 39.09N 142.85E 18–3 3.6
IDC III 30 04 29 49.7–1.3 39.02N 142.73E 70–15 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.3km az=28.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=12.5km az=162.0.
ISC III 30 04 33 25.1–3.4 36.31N–.09 140.84E–.07 3–20 3.5b 20 0-65
NIED III 30 04 33 00 36.40N 140.90E 56 4.3W **¶17199155**
JMA III 30 04 33 28.6–.10 36.40N 140.90E 38–1 3.6
IDC III 30 04 33 32.5–3.8 36.30N 140.71E 61–35 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S106.00000°,δ37.00000°,λ-131.00000°. NP2:ϕ_S333.00000°,δ63.00000°,λ-64.00000°. $M_0$3.23000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=30.4km s-min=25.1km az=140.0.
ISC III 30 04 45 13.1–1.2 38.73N–.06 141.9E–.10 35 3.6b 21 0-73
JMA III 30 04 45 11.6–.10 38.66N 142.04E 46–2 3.5 **¶17199156**
ISCJB III 30 04 45 11.3–.94 38.70N–.06 142.05E–.09 35 3.5b
IDC III 30 04 45 12.3–.99 39.31N 141.25E 0 3.6,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.1km az=33.4.
IDC Error ellipse: s-maj=21.1km s-min=5.1km az=105.0.
ISC III 30 04 45 35.7–.94 37.62N–.07 141.68E–.09 60 3.7b 21 1-92
NIED III 30 04 45 00 37.60N 141.70E 56 4.0W **¶17199159**
ISCJB III 30 04 45 34.0–.68 37.61N–.05 141.72E–.06 60 3.7b
JMA III 30 04 45 34.7–.10 37.61N 141.70E 47–3 3.9
IDC III 30 04 45 37.8–3.4 37.45N 141.71E 80–32 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S175.00000°,δ61.00000°,λ28.00000°. NP2:ϕ_S70.00000°,δ66.00000°,λ148.00000°. $M_0$1.13000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.2km az=41.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=19.2km az=95.0.
ISC III 30 04 58 25.3–.75 36.67N–.05 140.95E–.08 46–5 3.7b 28 0-74
NIED III 30 04 58 00 36.60N 140.90E 68 3.8W **¶17199160**
ISCJB III 30 04 58 23.7–.82 36.64N–.05 141.0E–.10 52–5 3.7b
JMA III 30 04 58 24.8–.10 36.65N 140.92E 49–1 3.9
IDC III 30 04 58 26.4–.83 36.61N 140.84E 58–7 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S254.00000°,δ37.00000°,λ155.00000°. NP2:ϕ_S4.00000°,δ75.00000°,λ55.00000°. $M_0$5.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.8km az=16.8.
JMA Event type fe.
IDC Error ellipse: s-maj=19.3km s-min=15.5km az=113.0.
ISC III 30 05 02 12.3–.77 38.94N–.06 142.01E–.09 51 3.9b 25 0-145
NIED III 30 05 02 00 38.90N 142.00E 35 3.9W **¶17199161**
ISCJB III 30 05 02 10.5–.60 38.87N–.05 142.07E–.07 51 3.8b
JMA III 30 05 02 12.2–.10 38.89N 141.95E 48–1 3.9
IDC III 30 05 02 16.1–2.7 38.82N 141.95E 90–24 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S204.00000°,δ26.00000°,λ83.00000°. NP2:ϕ_S32.00000°,δ64.00000°,λ93.00000°. $M_0$7.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.3km az=137.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=16.1km az=94.0.
JMA III 30 05 06 29.4–.20 38.06N 142.23E 32–3 3.9
NIED III 30 05 06 00 38.10N 142.20E 62 3.8W **¶602704128**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S1.00000°,δ67.00000°,λ-173.00000°. NP2:ϕ_S268.00000°,δ83.00000°,λ-23.00000°. $M_0$5.31000×10^{14}
ISC III 30 05 58 56.2–2.7 36.10N–.07 141.1E–.10 25–16 3.7b 14 0-56
IDC III 30 05 58 51.0–1.3 36.19N 141.41E 0 3.6,3.5b **¶17199164**
JMA III 30 05 58 58.6–.10 36.04N 140.86E 43–1 2.8,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=14.3km az=13.0.
ISC III 30 06 34 04.3–2.3 36.71N–.08 141.90E–.07 4–13 3.6b 23 1-75
JMA III 30 06 34 06.8–.20 36.63N 141.84E 45 3.7 **¶17199166**
IDC III 30 06 34 11.2–3.4 36.57N 141.73E 60–31 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=19.3km az=89.0.
ISC III 30 06 58 02.2–.93 36.23N–.05 140.80E–.08 31 3.4b 11 0-91
IDC III 30 06 58 01.4–.75 36.97N 140.66E 0 3.8,3.4 **¶17199169**
JMA III 30 06 58 01.5 36.22N 140.79E 36–1 3.7,3.4
ISCJB III 30 06 58 01.0–.78 36.24N–.04 140.83E–.08 31 3.5b,3.4
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 30 07 15 28.9–.61 37.41N–.06 141.38E–.07 60 4.1b 57 1-147
JMA III 30 07 15 27.5–.10 37.39N 141.39E 48–2 4.0 **¶16459641**
ISCJB III 30 07 15 27.2–.48 37.42N–.05 141.39E–.06 60 4.2b
IDC III 30 07 15 29.4–2.7 37.41N 141.27E 62–23 4.1,4.0
NEIC III 30 07 15 30.5–1.1 37.40N 141.30E 73–9 4.6b,4.0
BJI III 30 07 15 33.9 38.35N 140.58E 52 5.2b,4.8s
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=44.8.
IDC Error ellipse: s-maj=15.7km s-min=13.9km az=125.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.3km az=132.0.
ISC III 30 07 24 41.7–2.3 37.26N–.05 141.88E–.07 10–13 3.5b 23 1-63
JMA III 30 07 24 45.0–.20 37.30N 141.82E 37–3 3.5 **¶17199171**
IDC III 30 07 24 49.8–4.1 37.26N 141.75E 77–38 3.4,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=17.7km az=104.0.
JMA III 30 07 32 47.8–.10 38.45N 142.21E 30–2 3.6
¶602704452
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 30 07 34 24.1–2.3 36.73N–.06 142.00E–.09 1–12 3.7b 19 1-61
IDC III 30 07 34 22.9–2.1 36.75N 142.31E 0 3.8,3.7 **¶17199173**
JMA III 30 07 34 25.9–.20 36.59N 142.05E 41 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=58.4km s-min=22.1km az=59.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 30 07 35 36.6–.20 37.14N 141.79E 29–2 3.7
¶602704001
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 07 45 26.7–1.4 35.96N–.05 141.0E–.10 31 3.6b,3.5s 14 0-93
IDC III 30 07 45 19.9–3.2 36.22N 141.40E 0 3.6,3.5b **¶17199174**
ISCJB III 30 07 45 26.4–1.2 35.98N–.06 141.0E–.10 31 3.5b,3.5s
JMA III 30 07 45 28.1–.10 35.91N 140.84E 41–1 2.9,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=89.5km s-min=27.8km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.6km az=157.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 30 07 58 37.2–2.0 38.31N–.05 142.18E–.06 12–12 4.2b 61 1-150
NIED III 30 07 58 00 38.40N 142.20E 23 4.1W **¶16459642**
BJI III 30 07 58 29.7 37.86N 143.16E 20 5.0b,4.6b
JMA III 30 07 58 38.5–.20 38.38N 142.24E 34–2 4.3,4.6b
NEIC III 30 07 58 42.9–.89 38.31N 142.22E 57–7 4.6b,4.6b
IDC III 30 07 58 44.2–2.3 38.28N 142.15E 68–21 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S10.00000°,δ45.00000°,λ-127.00000°. NP2:ϕ_S237.00000°,δ56.00000°,λ-59.00000°. $M_0$1.63000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.4km az=125.0.
IDC Error ellipse: s-maj=16.0km s-min=11.9km az=107.0.
ISC III 30 08 48 46.3–2.1 38.43N–.09 142.5E–.20 24 3.9b 12 1-59
IDC III 30 08 48 44.3–2.6 39.08N 142.85E 0 3.8,3.7 **¶17199181**
JMA III 30 08 48 53.8–.10 38.89N 142.02E 47–1 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=67.1km s-min=31.0km az=72.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 30 08 52 38.3–2.5 36.02N–.04 141.16E–.07 7–15 4.3b 55 0-147
NIED III 30 08 52 00 36.10N 141.20E 20 4.0W **¶16459643**
IDC III 30 08 52 37.2–.57 36.00N 141.14E 0 4.2,4.2b
JMA III 30 08 52 39.8–.10 35.98N 141.11E 35–2 4.2,4.2b
NEIC III 30 08 52 42.2–.31 35.97N 141.09E 35 4.5b,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S166.00000°,δ19.00000°,λ-156.00000°. NP2:ϕ_S54.00000°,δ82.00000°,λ-72.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=12.9km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=6.4km az=85.0. Recorded [3 JMA] in Ibaraki.
JMA III 30 09 15 26.9–.10 38.54N 142.00E 44–1 3.6
NIED III 30 09 15 00 38.50N 142.00E 32 3.7W **¶600572616**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S202.00000°,δ16.00000°,λ117.00000°. NP2:ϕ_S354.00000°,δ76.00000°,λ83.00000°. $M_0$3.73000×10^{14}
JMA III 30 09 32 05.6–.10 37.91N 141.92E 30–4 3.8
¶602703768
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 09 42 49.2–1.7 39.06N–.04 142.46E–.06 15–10 4.3b 58 1-82
NIED III 30 09 42 00 39.10N 142.40E 35 4.1W **¶16475813**
IDC III 30 09 42 46.8–.65 39.01N 142.36E 0 4.2,4.1
ISCJB III 30 09 42 48.8–.95 39.02N–.03 142.47E–.05 26–6 4.1b,3.6s
JMA III 30 09 42 50.7–.10 39.10N 142.39E 32–1 4.1,3.6s
NEIC III 30 09 42 52.9–.74 39.04N 142.41E 43–7 4.4b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S11.00000°,δ5.00000°,λ-78.00000°. NP2:ϕ_S178.00000°,δ85.00000°,λ-91.00000°. $M_0$1.50000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=13.6km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=14.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.1km az=122.0.
ISC III 30 10 42 15.0–2.5 36.15N–.05 141.83E–.07 31–18 3.5b 32 1-147
NIED III 30 10 42 00 36.20N 141.80E 17 3.7W **¶17199192**
IDC III 30 10 42 10.6–.75 36.07N 142.11E 0 3.8,3.7
JMA III 30 10 42 13.4–.20 36.21N 141.82E 61–5 3.6,3.7
ISCJB III 30 10 42 13.3–1.9 36.13N–.04 141.85E–.05 31–15 3.5b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S244.00000°,δ20.00000°,λ-171.00000°. NP2:ϕ_S146.00000°,δ87.00000°,λ-71.00000°. $M_0$3.54000×10^{14}
ISCJB Event type ke.
JMA III 30 11 17 20.7–.40 38.65N 142.90E 1–5 3.5
¶602703594
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 30 11 39 28.9–.10 35.87N 140.93E 13–1 3.7
NIED III 30 11 39 00 35.90N 140.90E 5 3.4W **¶600572780**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S201.00000°,δ32.00000°,λ-133.00000°. NP2:ϕ_S69.00000°,δ67.00000°,λ-67.00000°. $M_0$1.61000×10^{14}
ISC III 30 12 51 06.2–.88 36.35N–.05 141.61E–.07 26 3.5b 22 1-75
IDC III 30 12 51 02.2–1.0 36.27N 141.69E 0 3.8,3.6b **¶602703486**
ISCJB III 30 12 51 05.1–.69 36.35N–.04 141.68E–.06 26 3.5b,3.6b
JMA III 30 12 51 06.7–.10 36.37N 141.58E 52–4 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=21.0km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.1km az=156.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 12 51 38.0–.41 35.44N–.03 141.14E–.03 22–2 5.3b,4.8s 1019 0-155
NIED III 30 12 51 00 35.50N 141.20E 32 5.1W,4.8s **¶602443950**
BJI III 30 12 51 33.8 35.38N 141.28E 24 5.0b,4.9b
IDC III 30 12 51 34.4–.33 35.39N 141.03E 0 5.2,5.2
NEIC III 30 12 51 36.6–.09 35.40N 141.01E 12 5.3b,5.1W
GCMT III 30 12 51 36.6–.30 35.47N 141.17E 23–3 5.2W,5.1W
ISCJB III 30 12 51 37.5–.46 35.37N–.02 141.07E–.02 31–3 5.2b,4.8s
JMA III 30 12 51 37.1–.10 35.44N 141.23E 30–1 5.3,4.8s
MOS III 30 12 51 42.2–.82 35.77N 140.93E 55 5.5b,4.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S262.00000°,δ15.00000°,λ87.00000°. NP2:ϕ_S85.00000°,δ75.00000°,λ91.00000°. $M_0$4.32000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=8.1km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=137.0. Felt at Narita and Tokyo. Recorded [3 JMA] in Chiba and Saitama. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.40 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$1.65 $M_{r\theta}$5.66 $M_{\theta\phi}$1.70 $M_{\phi r}$0.72 Best double couple: NP1: ϕ_S349.00000°,δ21.00000°,λ-17.00000°. NP2:ϕ_S258.00000°,δ90.00000°,λ-69.00000°. Principal axes: T 5.5800,Plg41.0000°,Azm328.0000°; N 0.9900,Plg21.0000°,Azm77.0000° ; P -6.5800,Plg42.0000°,Azm187.0000° $M_0$6.10000×10^{16}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c78; s51,c65; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.59±.22 $M_{\theta\theta}$-2.25±.17; $M_{\phi\phi}$0.66±.15; $M_{r\theta}$7.42±1.04; $M_{\theta\phi}$-1.47±.12; $M_{\phi r}$0.41±.27; Best double couple: NP1:ϕ_S87.00000°,δ83.00000° ,λ100.00000°. NP2:ϕ_S215.00000°,δ12.00000°,λ38.00000°. Principal axes: T 7.3850,Plg52.0000°,Azm8.0000°; N 0.8360,Plg10.0000°,Azm266.0000° ; P -8.2190,Plg37.0000°,Azm169.0000° $M_0$7.80200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.5km az=163.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=116.8.
ISC III 30 13 00 04.5–.32 38.67N–.03 142.18E–.03 44–2 5.1b,4.8s 732 1-155
NIED III 30 13 00 00 38.60N 142.10E 47 5.2W,4.8s **¶603049282**
MOS III 30 13 00 03.2–.99 38.72N 142.16E 48 5.3b,4.9s
BJI III 30 13 00 03.3 38.60N 141.99E 51 5.2b,5.0b
JMA III 30 13 00 04.0–.10 38.65N 142.16E 42–2 5.1,5.0b
ISCJB III 30 13 00 04.3–.36 38.64N–.02 142.05E–.02 52–3 5.0b,4.7s
NEIC III 30 13 00 05.2–.20 38.67N 141.98E 48–1 5.0b,4.7s
GCMT III 30 13 00 05.2–.20 38.71N 142.23E 44–0 5.2W,4.7s
IDC III 30 13 00 06.7–1.7 38.66N 142.07E 60–14 4.8,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S204.00000°,δ22.00000°,λ88.00000°. NP2:ϕ_S27.00000°,δ68.00000°,λ91.00000°. $M_0$6.52000×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=5.3km az=98.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=145.3.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=141.0. Recorded [3 JMA] in Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c95; s96,c170; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.84±.24 $M_{\theta\theta}$-1.61±.15; $M_{\phi\phi}$-5.24±.15; $M_{r\theta}$2.19±.11; $M_{\theta\phi}$-1.53±.09; $M_{\phi r}$3.94±.12; Best double couple: NP1:ϕ_S25.00000°,δ63.00000° ,λ94.00000°. NP2:ϕ_S197.00000°,δ27.00000°,λ83.00000°. Principal axes: T 8.2990,Plg72.0000°,Azm303.0000°; N -1.0920,Plg3.0000°,Azm203.0000° ; P -7.2170,Plg18.0000°,Azm112.0000° $M_0$7.75800×10^{16}
IDC Error ellipse: s-maj=11.3km s-min=7.7km az=108.0.
JMA III 30 13 17 58.9–.20 37.62N 141.89E 19–3 3.7
¶602703475
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 13 19 04.9–.31 36.70N–.03 140.89E–.03 46–2 5.1b,4.4s 901 0-158
BJI III 30 13 18 59.5 36.54N 141.31E 53 5.1b,4.9b **¶16392167**

NIED III 30 13 19 00 36.70N 141.00E 53 5.1W,4.9b
MOS III 30 13 19 02.8–1.1 36.73N 140.87E 44 5.3b,4.9b
JMA III 30 13 19 04.7–.10 36.65N 140.93E 50–1 5.0,4.9b
ISCJB III 30 13 19 04.8–.28 36.68N–.02 140.84E–.02 55–2 5.0b,4.4s
NEIC III 30 13 19 06.8–.43 36.69N 140.75E 60–4 5.1b,4.4s
IDC III 30 13 19 06.8–1.4 36.63N 140.86E 62–11 5.0,4.7
GCMT III 30 13 19 06.8–.20 36.68N 141.01E 56–1 5.1W,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ13.00000°,λ84.00000°. NP2:ϕ_s23.00000°,δ78.00000°,λ91.00000°. $M_0$5.55000×10^{16}
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=105.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s33.00000°,δ72.00000°,λ91.00000°. NP2:ϕ_s210.00000°,δ18.00000°,λ87.00000°. Principal axes: T Plg63.0000°,Azm304.0000°; N Plg1.0000°,Azm212.0000°; P Plg27.0000° ,Azm122.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=163.5.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=151.0. Recorded [4 JMA] in Ibaraki.
IDC Error ellipse: s-maj=9.5km s-min=8.4km az=91.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c74; s102,c183; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.78±.20 $M_{\theta\theta}$-0.07±.14; $M_{\phi\phi}$-3.71±.13; $M_{r\theta}$1.18±.10; $M_{\theta\phi}$-1.20±.09; $M_{\phi r}$4.37±.12; Best double couple: NP1:ϕ_s15.00000°,δ70.00000° ,λ89.00000°. NP2:ϕ_s198.00000°,δ20.00000°,λ92.00000°. Principal axes: T 5.8470,Plg65.0000°,Azm284.0000°; N 0.2910,Plg1.0000°,Azm16.0000° ; P -6.1350,Plg25.0000°,Azm106.0000° $M_0$5.99100×10^{16}

ISC III 30 13 30 10.8–.84 35.66N–.06 141.51E–.08 25 3.5b 15 1-118
IDC III 30 13 30 07.1–1.0 35.57N 141.74E 0 3.7,3.6 **¶17199205**
ISCJB III 30 13 30 09.2–.75 35.66N–.06 141.61E–.08 25 3.4b,3.6
JMA III 30 13 30 10.9–.40 35.79N 141.41E 25–2 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=17.6km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.2km az=38.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC III 30 13 44 00.9–2.2 37.91N–.04 141.81E–.08 12–13 23 1-63
IDC III 30 13 43 58.9–2.3 37.85N 142.22E 0 3.8,3.7 **¶17199206**
ISCJB III 30 13 44 00.9–1.4 37.90N–.04 141.89E–.09 18–9 3.8s,3.5b
JMA III 30 13 44 02.4–.10 37.92N 141.81E 31–2 3.8,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=31.9km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.2km az=5.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC III 30 13 56 57.7–1.5 35.42N–.08 141.2E–.20 33 3.5b 17 0-55
ISCJB III 30 13 56 56.1–1.1 35.40N–.05 141.3E–.10 33 3.5b,3.4s **¶16459647**
JMA III 30 13 56 56.5–.20 35.45N 141.24E 30–2 3.2,3.4s
IDC III 30 13 56 59.2–6.3 35.31N 141.24E 37–44 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=6.9km az=168.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=74.4km s-min=19.8km az=69.0.

ISC III 30 13 57 31.0–.94 35.81N–.05 140.90E–.07 26–6 3.9b 26 0-80
NIED III 30 13 57 00 35.90N 141.10E 8 3.9W **¶16475833**
IDC III 30 13 57 26.4–1.5 35.83N 141.20E 0 4.0,4.0
JMA III 30 13 57 29.9–.10 35.85N 141.09E 22–1 3.9,4.0
NEIC III 30 13 57 31.1–5.0 35.78N 141.21E 32–36 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ21.00000°,λ-30.00000°. NP2:ϕ_s2.00000°,δ80.00000°,λ-108.00000°. $M_0$8.87000×10^{14}
IDC Error ellipse: s-maj=49.2km s-min=18.2km az=63.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=12.2km az=55.0.

ISC III 30 14 06 53.9–2.0 38.23N–.04 142.01E–.08 11–11 3.7b 26 1-58
IDC III 30 14 06 49.6–2.6 38.40N 142.81E 0 3.7,3.7 **¶17199209**
JMA III 30 14 06 56.5–.10 38.32N 142.11E 37–2 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=63.3km s-min=26.6km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 30 14 09 34.4–1.9 37.32N–.04 141.65E–.07 17–11 3.6b 25 1-63
NIED III 30 14 09 00 37.30N 141.80E 5 3.8W **¶600572878**
JMA III 30 14 09 33.2–.20 37.31N 141.76E 21–2 3.8
ISCJB III 30 14 09 34.8–1.0 37.28N–.04 141.70E–.08 36–10 3.5b
IDC III 30 14 09 38.5–2.5 37.30N 141.57E 49–27 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ46.00000°,λ-55.00000°. NP2:ϕ_s198.00000°,δ54.00000°,λ-120.00000°. $M_0$4.81000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.1km az=11.0.
IDC Error ellipse: s-maj=24.9km s-min=18.8km az=80.0.

JMA III 30 14 23 54.4–.30 38.15N 142.95E 5–4 3.7 ¶602703251
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 30 14 45 29.2–.35 35.78N–.04 141.20E–.04 31 4.6b,4.1s 242 0-147
NIED III 30 14 45 00 35.80N 141.10E 32 4.7W,4.1s **¶16392169**
BJI III 30 14 45 26.2 35.83N 141.21E 28 4.9b,4.6b
ISCJB III 30 14 45 28.1–.20 35.78N–.03 141.11E–.03 31 4.5b,4.0s
JMA III 30 14 45 29.5–.10 35.77N 141.07E 36–1 4.7,4.0s
NEIC III 30 14 45 29.9–1.6 35.73N 141.05E 35–11 4.7b,4.0s
IDC III 30 14 45 30.9–1.6 35.68N 141.04E 45–15 4.3,4.2
MOS III 30 14 45 32.0–.95 36.30N 140.98E 39 4.9b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s115.00000°,δ33.00000°,λ-57.00000°. NP2:ϕ_s258.00000°,δ63.00000°,λ-109.00000°. $M_0$1.49000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.2km az=148.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=131.0.
IDC Error ellipse: s-maj=13.6km s-min=10.9km az=92.0.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=100.3.

ISC III 30 15 01 06.5–1.8 37.17N–.05 141.63E–.07 31–12 3.9b 36 1-74
NIED III 30 15 01 00 37.20N 141.40E 59 3.9W **¶16475840**
IDC III 30 15 01 02.4–1.9 37.40N 141.77E 0 3.8b,3.7
NEIC III 30 15 01 08.8–.99 37.25N 141.60E 48–8 4.6b,3.7
JMA III 30 15 01 09.9–.10 37.19N 141.36E 49–1 3.8,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s31.00000°,δ68.00000°,λ97.00000°. $M_0$8.58000×10^{14}
IDC Error ellipse: s-maj=36.6km s-min=24.1km az=139.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.3km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 30 15 18 45.3 36.99N 140.51E 7–1 2.4 ¶603049283

ISC III 30 15 21 47.9–1.0 37.00N–.03 140.55E–.03 13–6 3.8b 33 0-91
NIED III 30 15 21 00 37.00N 140.50E 5 3.9W **¶17199213**
IDC III 30 15 21 45.8–.70 37.02N 140.64E 0 3.9,3.8
JMA III 30 15 21 47.8 36.99N 140.51E 4–2 3.7,3.8
ISCJB III 30 15 21 47.4–.48 37.00N–.03 140.61E–.04 21–3 3.6b,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ29.00000°,λ-97.00000°. NP2:ϕ_s136.00000°,δ61.00000°,λ-86.00000°. $M_0$8.09000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ52.00000°,λ-83.00000°. NP2:ϕ_s299.00000°,δ38.00000°,λ-99.00000°. Principal axes: T Plg7.0000°,Azm215.0000°; N Plg5.0000°,Azm306.0000°; P Plg81.0000° ,Azm71.0000°
ISCJB Event type fe.

ISC III 30 15 37 15.1–1.4 36.58N–.05 141.87E–.09 19 16 1-57
IDC III 30 15 37 10.9–2.8 36.65N 142.30E 0 3.5,3.5 **¶17199214**
JMA III 30 15 37 16.6–.20 36.63N 141.92E 42–5 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=49.3km s-min=32.9km az=52.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 30 15 41 36.3–1.8 37.63N–.04 141.86E–.08 29–13 25 1-58
IDC III 30 15 41 28.9–2.8 37.86N 142.50E 0 3.6,3.5 **¶17199215**
JMA III 30 15 41 38.6–.10 37.67N 141.75E 43–2 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=59.6km s-min=29.2km az=67.0.
JMA Event type fe.

ISC III 30 16 13 23.3–.37 35.39N–.04 141.18E–.04 33 4.7b,4.0s 209 0-148
NIED III 30 16 13 00 35.40N 141.30E 20 4.6W,4.0s **¶602703135**
BJI III 30 16 13 19.4 35.41N 141.12E 21 4.9b,4.6b
MOS III 30 16 13 21.8–.97 35.37N 141.10E 33 4.9b,4.6b
NEIC III 30 16 13 22.0–.50 35.39N 141.12E 21–3 4.8b,4.6b
ISCJB III 30 16 13 22.0–.24 35.40N–.03 141.15E–.04 33 4.6b,4.0s
JMA III 30 16 13 21.0–.10 35.44N 141.27E 28–2 4.5,4.0s
IDC III 30 16 13 24.7–1.7 35.36N 141.03E 41–17 4.3,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ14.00000°,λ-138.00000°. NP2:ϕ_s231.00000°,δ81.00000°,λ-80.00000°. $M_0$9.07000×10^{15}
MOS Error ellipse: s-maj=11.0km s-min=5.5km az=116.8.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.3km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=37.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=9.5km az=95.0.

JMA III 30 16 47 50.2–.20 38.22N 142.02E 46–3 3.6
NIED III 30 16 47 00 38.20N 142.00E 8 3.7W **¶600573004**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ45.00000°,λ113.00000°. NP2:ϕ_s39.00000°,δ49.00000°,λ68.00000°. $M_0$3.65000×10^{14}

ISC III 30 17 23 12.6–2.0 38.23N–.04 142.10E–.07 5–12 3.8b 37 1-146
JMA III 30 17 23 13.0–.20 38.21N 142.15E 18–3 4.1 **¶16459650**
ISCJB III 30 17 23 13.4–2.0 38.21N–.03 142.17E–.06 15–13 3.6b
IDC III 30 17 23 18.1–2.3 38.17N 142.04E 43–23 3.6,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.6km az=1.9.
IDC Error ellipse: s-maj=25.1km s-min=13.0km az=93.0.

ISC III 30 17 54 03.1–1.2 36.73N–.07 141.48E–.09 26 3.5b 23 1-60
IDC III 30 17 53 57.4–1.8 36.99N 141.91E 0 3.9L,3.7 **¶600573047**
NIED III 30 17 54 00 36.70N 141.30E 44 3.8W,3.7
ISCJB III 30 17 54 00.6–.76 36.72N–.05 141.63E–.07 26 3.5b,3.7
NEIC III 30 17 54 03.0–1.1 36.83N 141.71E 35 4.4b,3.7
JMA III 30 17 54 05.9–.10 36.74N 141.27E 48–2 3.5,3.7
ISC Event type se.
IDC Error ellipse: s-maj=47.6km s-min=18.2km az=66.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ18.00000°,λ-176.00000°. NP2:ϕ_s160.00000°,δ89.00000°,λ-72.00000°. $M_0$5.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.1km az=144.8.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=10.7km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 30 18 58 25.0–.20 38.35N 142.06E 39–3 3.1 ¶603145341
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 30 19 45 59.1–1.1 38.36N–.06 142.43E–.08 24 3.4b 26 1-79
NIED III 30 19 45 00 38.30N 142.40E 32 3.8W **¶17199224**
IDC III 30 19 45 54.2–1.2 38.30N 142.83E 0 3.7,3.5
ISCJB III 30 19 45 58.3–.88 38.35N–.05 142.44E–.07 24 3.4b,3.5
JMA III 30 19 45 59.3–.20 38.32N 142.38E 31–3 4.1,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ32.00000°,λ-118.00000°. NP2:ϕ_s173.00000°,δ62.00000°,λ-74.00000°. $M_0$4.91000×10^{14}
IDC Error ellipse: s-maj=29.0km s-min=27.6km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.6km az=29.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 30 19 47 22.9–1.5 35.78N–.08 141.6E–.10 25 3.6b 9 3-56
IDC III 30 19 47 16.2–2.7 36.04N 142.46E 0 3.9,3.9L **¶17199225**
ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=24.5km az=67.0.

ISC III 30 20 00 20.3–1.2 35.81N–.04 141.13E–.05 11–6 4.2b,3.6s 81 0-148
NIED III 30 20 00 00 35.90N 141.10E 11 4.1W,3.6s **¶16401545**
IDC III 30 20 00 18.7–.62 35.76N 141.08E 0 4.1,4.0
ISCJB III 30 20 00 19.4–.82 35.82N–.04 141.20E–.05 19–5 4.2b,3.6s
JMA III 30 20 00 21.1–.20 35.85N 141.12E 24–1 4.3,3.6s
NEIC III 30 20 00 24.1–2.2 35.92N 141.06E 33–15 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ18.00000°,λ-46.00000°. NP2:ϕ_s360.00000°,δ77.00000°,λ-103.00000°. $M_0$1.59000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.8km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.9km az=165.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.5km az=134.0.

JMA III 30 20 04 09.2–.10 39.25N 142.56E 28–1 3.8
NIED III 30 20 04 00 39.30N 142.60E 32 3.5W **¶600573175**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ30.00000°,λ-25.00000°. NP2:ϕ_s213.00000°,δ78.00000°,λ-117.00000°. $M_0$2.09000×10^{14}

ISC III 30 20 33 32.8–.73 36.47N–.05 140.92E–.08 32 3.6b,3.1s 25 0-75
NIED III 30 20 33 00 36.40N 141.10E 5 3.9W,3.1s **¶600573210**
JMA III 30 20 33 29.7 36.39N 141.07E 22–1 4.2,3.1s
ISCJB III 30 20 33 30.7–.56 36.44N–.04 141.01E–.07 32 3.6b,3.1s
IDC III 30 20 33 34.1–1.9 36.41N 140.97E 45–18 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ63.00000°,λ-9.00000°. NP2:ϕ_s126.00000°,δ82.00000°,λ-153.00000°. $M_0$9.27000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.5km az=11.8.
IDC Error ellipse: s-maj=23.1km s-min=11.8km az=86.0.

ISC III 30 21 34 27.3–1.8 35.96N–.06 141.2E–.10 31 13 0-45
JMA III 30 21 34 26.3–.20 35.93N 141.22E 28–2 3.3 **¶17199231**
ISCJB III 30 21 34 27.0–1.4 35.96N–.04 141.2E–.10 31 3.1b
IDC III 30 21 34 33.6–2.7 37.04N 140.46E 0 3.9,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=6.4km az=177.8.
IDC Error ellipse: s-maj=61.4km s-min=32.2km az=44.0.

ISC III 30 21 50 35.9–1.9 37.36N–.05 141.52E–.08 0–12 3.6b 22 1-74
ISCJB III 30 21 50 34.5–1.5 37.35N–.04 141.68E–.07 4–8 3.6b **¶17199232**
IDC III 30 21 50 35.9–1.1 37.37N 141.50E 0 3.8,3.6
JMA III 30 21 50 37.2–.20 37.37N 141.57E 23–3 3.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.8km az=15.1.
IDC Error ellipse: s-maj=30.2km s-min=24.5km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 30 21 52 26.1–.10 35.82N 140.91E 11–1 3.5
NIED III 30 21 52 00 35.80N 140.90E 5 3.4W **¶600573254**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ31.00000°,λ-123.00000°. NP2:ϕ_s10.00000°,δ65.00000°,λ-72.00000°. $M_0$1.29000×10^{14}

ISC III 30 22 50 43.3–1.5 39.06N–.04 142.49E–.05 12–9 4.4b 103 1-145
JMA III 30 22 50 42.1–.10 39.08N 142.65E 20–1 4.4b **¶602703381**
NEIC III 30 22 50 42.8–.22 38.99N 142.49E 10 4.7b
ISCJB III 30 22 50 43.2–.84 39.05N–.03 142.58E–.05 21–5 4.3b,3.5s
IDC III 30 22 50 47.7–2.0 39.03N 142.51E 46–20 4.1,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=147.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=26.1.
IDC Error ellipse: s-maj=15.5km s-min=11.8km az=107.0.

JMA III 30 22 50 54.5–.30 39.09N 142.69E 19–4 4.4 ¶600573319
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC III 30 23 40 00.0–2.5 36.37N–.10 140.8E–.10 17–12 3.7b 16 0-57
NIED III 30 23 40 00 36.40N 140.90E 23 3.4W **¶17199238**
JMA III 30 23 40 00.8–.10 36.36N 140.89E 37–1 3.6
IDC III 30 23 40 02.4–7.5 35.72N 140.75E 65–50 3.6,3.4
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ24.00000°,λ137.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ72.00000°. $M_0$1.22000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=127.7km s-min=54.6km az=23.0.

ISC	**III**	**31 00 29 09.9–.94**	**37.71N–.04**	**141.84E–.05**	**11–5**	**4.4b**	**115**	**1-146**
NIED	III	31 00 29 00	37.70N	141.90E	14	4.2W		**¶16403098**
IDC	III	31 00 29 07.8–.58	37.73N	141.88E	0	4.3,4.3		
JMA	III	31 00 29 09.6–.10	37.72N	141.88E	20–2	4.4,4.3		
ISCJB	III	31 00 29 09.4–.99	37.73N–.03	141.92E–.05	17–6	4.4b,4.3		
NEIC	III	31 00 29 14.0–.79	37.71N	141.82E	40–7	4.6b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ49.00000°,λ-146.00000°. NP2:ϕ_s157.00000°,δ65.00000°,λ-46.00000°. $M_0$2.27000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=13.6km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=33.6.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.0km az=145.0.

JMA	**III**	**31 00 32 15.8–.10**	**39.47N**	**142.47E**	**30–1**	**3.5**		
								¶602706726
ISC	**III**	**31 01 28 47.5–1.4**	**38.24N–.04**	**141.93E–.08**	**43–11**	**4.4b**	**121**	**1-151**
BJI	III	31 01 28 40.3	37.97N	142.43E	30	5.0b,4.8s		**¶16399886**
NEIC	III	31 01 28 46.5–.74	38.21N	142.00E	36–6	4.6b,4.8s		
ISCJB	III	31 01 28 46.9–.66	38.17N–.03	141.92E–.06	54–4	4.4b,4.8s		
JMA	III	31 01 28 47.6–.10	38.22N	141.93E	47–1	4.3,4.8s		
IDC	III	31 01 28 49.1–2.0	38.17N	141.80E	55–19	4.2,4.1		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.1km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.7km az=9.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.0km s-min=11.0km az=85.0.

ISC	**III**	**31 01 54 33.4–1.2**	**36.29N–.09**	**141.8E–.10**	**19**	**3.4b**	**11**	**1-56**
IDC	III	31 01 54 30.9–1.4	36.50N	141.96E	0	3.6,3.5L		**¶17199245**
ISCJB	III	31 01 54 31.6–1.1	36.3N–.10	141.92E–.10	19	3.4b,3.5L		
JMA	III	31 01 54 33.5–.20	36.19N	141.75E	68–5	3.0,3.5L		

ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=27.9km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=11.5km az=176.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

JMA	**III**	**31 02 31 27.1–.10**	**36.15N**	**141.03E**	**33–2**	**2.8**		
								¶600573479

JMA Event type fe.

ISC	**III**	**31 02 46 19.4–2.2**	**39.25N–.06**	**142.92E–.07**	**9–12**	**3.6b**	**28**	**1-73**
JMA	III	31 02 46 18.9–.20	39.27N	142.98E	12–2	3.9		**¶17199249**
IDC	III	31 02 46 25.6–3.7	39.18N	142.98E	60–35	3.6,3.5		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.6km s-min=22.0km az=96.0.

JMA	**III**	**31 03 15 18.3–.10**	**38.85N**	**142.05E**	**47–1**	**3.7**		
								¶602706157

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**31 03 21 23.2–.55**	**35.81N–.05**	**141.67E–.06**	**26**	**3.9b**	**39**	**1-147**
NIED	III	31 03 21 00	35.90N	141.70E	17	3.9W		**¶16475896**
IDC	III	31 03 21 19.2–.59	35.78N	141.73E	0	4.1,3.9		
JMA	III	31 03 21 21.7–.20	35.94N	141.74E	28–3	3.9,3.9		
ISCJB	III	31 03 21 21.3–.46	35.81N–.04	141.77E–.06	26	3.9b,3.9		
NEIC	III	31 03 21 23.4–3.0	35.72N	141.70E	29–22	4.1b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ61.00000°,λ-13.00000°. NP2:ϕ_s136.00000°,δ78.00000°,λ-150.00000°. $M_0$8.07000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=14.8km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=31.8.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.0km az=53.0.

ISC	**III**	**31 03 25 37.5–.60**	**36.76N–.04**	**141.72E–.05**	**30–3**	**4.8b,4.3s**	**363**	**1-152**
NIED	III	31 03 25 00	36.80N	141.60E	20	4.6W,4.3s		**¶16399890**
ISCJB	III	31 03 25 35.8–.93	36.76N–.03	141.76E–.03	29–6	4.7b,4.4s		
BJI	III	31 03 25 36.9	36.80N	141.74E	50	5.0b,4.9b		
MOS	III	31 03 25 37.7–.92	36.89N	141.75E	40	5.0b,4.9b		
JMA	III	31 03 25 38.1–.40	36.78N	141.59E	49–4	4.6,4.9b		
NEIC	III	31 03 25 38.9–.60	36.78N	141.70E	41–5	4.7b,4.9b		
IDC	III	31 03 25 40.3–2.0	36.69N	141.64E	53–18	4.5,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ15.00000°,λ106.00000°. NP2:ϕ_s23.00000°,δ76.00000°,λ86.00000°. $M_0$9.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=140.6.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=109.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=137.0.
IDC Error ellipse: s-maj=14.5km s-min=12.2km az=124.0.

JMA	**III**	**31 04 21 05.5–.20**	**37.67N**	**141.91E**	**32–4**	**3.5**		
								¶602706092

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**31 04 40 16.8–.96**	**36.71N–.04**	**140.55E–.05**	**7–6**	**3.6b**	**25**	**0-147**
NIED	III	31 04 40 00	36.70N	140.70E	5	3.8W		**¶16399892**
IDC	III	31 04 40 15.7–.74	36.68N	140.49E	0	3.9,3.7		
ISCJB	III	31 04 40 15.4–.82	36.65N–.04	140.73E–.06	12–4	3.7b,2.8s		
JMA	III	31 04 40 17.0	36.70N	140.62E	5–1	3.6,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s151.00000°,δ59.00000°,λ-94.00000°. $M_0$5.11000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=18.6km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.4km az=36.7.
JMA Event type fe.

JMA	**III**	**31 04 45 23.1–.10**	**38.34N**	**141.92E**	**47–1**	**3.6**		
								¶602706075

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**31 04 54 12.5–3.0**	**38.06N–.06**	**142.30E–.10**	**31–20**	**3.5b**	**22**	**1-63**
IDC	III	31 04 54 07.5–1.2	37.76N	142.80E	0	3.7,3.5		**¶17199254**
ISCJB	III	31 04 54 10.8–1.6	38.02N–.05	142.34E–.07	28–9	3.4b,3.5		
JMA	III	31 04 54 11.5–.30	38.00N	142.28E	39–5	4.0,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=24.6km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.0km az=38.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**31 06 27 29.5–.64**	**39.29N–.05**	**142.88E–.05**	**30–3**	**4.5b,4.0s**	**110**	**1-88**
NIED	III	31 06 27 00	39.10N	143.00E	5	4.3W,4.0s		**¶16401554**
BJI	III	31 06 27 23.2	39.26N	143.57E	27	4.9b,4.5b		
JMA	III	31 06 27 24.8–.10	39.14N	142.99E	16–2	4.5,4.5b		
ISCJB	III	31 06 27 26.9–1.1	39.20N–.04	142.95E–.04	27–7	4.4b,3.9s		
NEIC	III	31 06 27 31.7–.65	39.25N	142.93E	50–6	4.7b,3.9s		
IDC	III	31 06 27 32.2–2.3	39.17N	142.97E	61–21	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ63.00000°,λ-153.00000°. NP2:ϕ_s260.00000°,δ66.00000°,λ-30.00000°. $M_0$2.88000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=155.1.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=137.0.
IDC Error ellipse: s-maj=16.5km s-min=13.1km az=131.0.

ISC	**III**	**31 06 37 43.7–1.2**	**36.9N–.10**	**141.87E–.10**	**19**	**3.6b**	**9**	**3-61**
IDC	III	31 06 37 46.8–4.1	36.98N	142.09E	44–38	3.5,3.5		**¶17199261**

ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=22.6km az=88.0.

ISC	**III**	**31 06 54 30.3–1.1**	**40.06N–.04**	**142.70E–.07**	**25–6**	**3.9b**	**34**	**1-67**
NIED	III	31 06 54 00	40.10N	142.70E	29	3.7W		**¶17199266**
JMA	III	31 06 54 30.3–.10	40.07N	142.69E	28–2	3.8		
IDC	III	31 06 54 33.4–4.2	39.96N	142.75E	57–37	3.7,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ19.00000°,λ68.00000°. NP2:ϕ_s39.00000°,δ73.00000°,λ97.00000°. $M_0$4.49000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=22.2km az=71.0.

ISC	**III**	**31 07 15 29.7–.33**	**38.92N–.03**	**142.02E–.03**	**42–2**	**5.9b,5.6s**	**2067**	**0-159**
NIED	III	31 07 15 00	38.90N	142.10E	50	6.0W,5.6s		**¶16399899**
BJI	III	31 07 15 25.9	38.85N	142.15E	40	6.0s,5.9		
MOS	III	31 07 15 28.5–.89	39.09N	141.92E	37	6.1b,5.6s		
JMA	III	31 07 15 29.6–.10	38.87N	142.08E	47–1	6.1,5.6s		
ISCJB	III	31 07 15 29.7–.28	38.89N–.02	141.93E–.01	53–2	5.8b,5.7s		
GCMT	III	31 07 15 30.2–.10	38.97N	142.05E	50–0	6.0W,5.7s		
IDC	III	31 07 15 30.1–1.2	38.89N	142.01E	45–10	5.7,5.5		
NEIC	III	31 07 15 30.0–.00	38.75N	142.42E	39	5.7,5.5		
NEIC	III	31 07 15 30.2–.08	38.92N	141.82E	42	6.1W,6.0W		
NEIC	III	31 07 15 52.5–.00	39.16N	140.84E	42	6.1W,6.0W		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ21.00000°,λ68.00000°. NP2:ϕ_s25.00000°,δ70.00000°,λ98.00000°. $M_0$1.13000×10^{18}
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=92.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=161.4.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c307; s138,c444;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}1.07±.01 $M_{\theta\theta}$-0.00±.01; $M_{\phi\phi}$-1.07±.01; $M_{r\theta}$0.42±.01; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$0.84±.01; Best double couple: NP1:ϕ_s22.00000°,δ65.00000°,λ98.00000°. NP2:ϕ_s183.00000°,δ26.00000°,λ73.00000°. Principal axes: T 1.4320,Plg69.0000°,Azm307.0000° ; N 0.0230,Plg7.0000°,Azm198.0000°; P -1.4580,Plg20.0000°,Azm106.0000° $M_0$1.44500×10^{18}
IDC Error ellipse: s-maj=10.4km s-min=7.9km az=101.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ69.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ21.00000°,λ91.00000°. Principal axes: T 1.2500,Plg65.0000°,Azm289.0000°; N -0.0600,Plg0.0000°,Azm19.0000° ; P -1.1900,Plg24.0000°,Azm109.0000°
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=147.0. Felt [III] at Misawa. Also felt at Tokyo and Yokosuka and at Sapporo, Hokkaido. Recorded [5L JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s89 Moment tensor: Scale 10^{18}Nm; M_{rr}1.07 $M_{\theta\theta}$0.19 $M_{\phi\phi}$-1.25 $M_{r\theta}$0.52 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s180.00000°,δ26.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ66.00000°,λ101.00000°. Principal axes: T 1.5000,Plg67.0000°,Azm315.0000°; N 0.2500,Plg10.0000°,Azm201.0000° ; P -1.7500,Plg21.0000°,Azm108.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{18}Nm; M_{rr}1.11 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-0.98 $M_{r\theta}$0.57 $M_{\theta\phi}$-0.24 $M_{\phi r}$0.04 Best double couple: NP1:ϕ_s176.00000°,δ44.00000°,λ59.00000°. NP2:ϕ_s36.00000°,δ54.00000°,λ116.00000°. Principal axes: T 1.3300,Plg68.0000°,Azm3.0000°; N -0.2700,Plg21.0000°,Azm200.0000° ; P -1.0600,Plg6.0000°,Azm108.0000° $M_0$1.20000×10^{18}

ISC	**III**	**31 07 20 60.0–1.7**	**39.41N–.04**	**142.59E–.06**	**12–10**	**4.3b**	**28**	**1-75**
IDC	III	31 07 21 01.7–1.1	39.95N	142.42E	0	4.4,4.3		**¶16475924**
JMA	III	31 07 21 01.1–.10	39.48N	142.64E	27–1	4.4,4.3		
ISCJB	III	31 07 21 01.7–1.2	39.53N–.04	142.60E–.08	27–7	4.2b,4.3		
NEIC	III	31 07 21 06.2–.63	39.83N	142.40E	35	4.2b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=23.0km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.3km az=17.8.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=10.1km az=117.0.

ISC	**III**	**31 09 18 53.1–1.5**	**39.05N–.05**	**142.3E–.10**	**22–8**	**3.6b**	**18**	**0-47**
IDC	III	31 09 18 43.6–3.5	38.09N	142.48E	0	3.7,3.7b		**¶17199276**
ISCJB	III	31 09 18 52.5–1.5	39.04N–.05	142.40E–.09	32–7	3.5b,3.7b		
JMA	III	31 09 18 53.4–.10	39.09N	142.37E	32–1	3.9,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=82.1km s-min=27.3km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=8.1km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**31 09 26 28.0–.10**	**37.38N**	**141.35E**	**29–2**	**3.6**		
								¶602705950

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**31 09 36 22.2–.81**	**35.73N–.06**	**140.75E–.07**	**45–7**	**3.8b**	**23**	**0-71**
ISCJB	III	31 09 36 21.2–.52	35.75N–.05	140.76E–.09	53–4	3.7b		**¶600573728**
IDC	III	31 09 36 22.3–2.1	35.66N	140.72E	47–21	3.9,3.7		
JMA	III	31 09 36 22.8–.10	35.76N	140.66E	42–2	3.1,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=8.7km az=166.3.
IDC Error ellipse: s-maj=22.2km s-min=15.1km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**31 10 28 25.8–1.5**	**37.32N–.04**	**141.24E–.06**	**7–9**	**3.9b**	**32**	**0-90**
ISCJB	III	31 10 28 25.7–1.1	37.26N–.04	141.32E–.08	17–8	3.8b		**¶17199285**
JMA	III	31 10 28 26.5–.10	37.30N	141.22E	17–1	4.0		
IDC	III	31 10 28 30.4–3.6	37.25N	141.16E	41–34	3.8,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.0km az=23.8.
JMA Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=16.0km az=112.0.

ISC	**III**	**31 10 30 30.9–.76**	**38.38N–.05**	**142.16E–.06**	**34–2**	**4.1b**	**63**	**1-146**
NIED	III	31 10 30 00	38.40N	142.10E	38	4.1W		**¶602705859**
ISCJB	III	31 10 30 30.3–.85	38.40N–.04	142.13E–.07	44–6	4.0b		
JMA	III	31 10 30 30.1–.10	38.41N	142.14E	37–2	4.2		
IDC	III	31 10 30 31.2–.70	38.42N	142.16E	34–4	4.0,4.0		
NEIC	III	31 10 30 32.3–.77	38.45N	142.13E	44–6	4.5b,4.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ8.00000°,λ-21.00000°. NP2:ϕ_s211.00000°,δ87.00000°,λ-98.00000°. $M_0$1.50000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.3km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=13.0km az=133.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.7km az=126.0.

ISC	**III**	**31 10 59 51.4–1.6**	**38.49N–.05**	**142.22E–.07**	**20–6**	**3.9b**	**19**	**1-62**
NIED	III	31 10 59 00	38.50N	142.20E	26	3.6W		**¶602705832**
IDC	III	31 10 59 49.0–.90	38.24N	143.14E	0	3.9,3.8		
ISCJB	III	31 10 59 50.0–2.6	38.45N–.07	142.3E–.10	22–18	3.8b,2.8s		
JMA	III	31 10 59 52.1–.10	38.50N	142.20E	26–2	4.0,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ41.00000°,λ-21.00000°. NP2:ϕ_s268.00000°,δ77.00000°,λ-129.00000°. $M_0$2.94000×10^{14}
IDC Error ellipse: s-maj=29.2km s-min=17.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=21.4km s-min=8.3km az=25.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**III**	**31 11 50 17.8–.20**	**38.37N**	**142.28E**	**32–3**	**3.5**		
								¶602705732

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**31 12 42 04.9–1.6**	**38.41N–.08**	**142.4E–.10**	**24**		**13**	**1-59**
IDC	III	31 12 41 59.6–3.3	38.40N	143.07E	0	3.6,3.4b		**¶17199294**
NIED	III	31 12 42 00	38.50N	142.30E	53	3.9W,3.4b		
ISCJB	III	31 12 42 03.7–1.4	38.37N–.09	142.4E–.10	24	3.3b,3.4b		
JMA	III	31 12 42 05.4–.20	38.47N	142.34E	36–2	3.6,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=72.9km s-min=43.1km az=60.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s290.00000°,δ71.00000°,λ-13.00000°. NP2:ϕ_s24.00000°,δ78.00000°,λ-160.00000°. $M_0$8.33000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=10.2km az=141.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**31 13 00 58.1–1.7**	**36.66N–.05**	**141.35E–.08**	**27–12**	**3.5b**	**23**	**1-57**
IDC	III	31 13 00 52.7–2.5	36.81N	141.69E	0	3.9L,3.8		**¶17199295**
ISCJB	III	31 13 00 58.2–.94	36.63N–.04	141.34E–.08	46–9	3.4b,3.4s		
JMA	III	31 13 01 00.6–.10	36.68N	141.14E	47–2	3.5,3.4s		
NIED	III	31 13 01 00	36.70N	141.10E	50	3.7W,3.4s		

ISC Event type ke.
IDC Error ellipse: s-maj=57.2km s-min=23.2km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.5km az=0.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ23.00000°,λ-99.00000°. NP2:ϕ_s271.00000°,δ68.00000°,λ-86.00000°. $M_0$3.58000×10^{14}

ISC	**III**	**31 13 08 07.4–.76**	**37.66N–.05**	**141.77E–.06**	**24**	**3.5b**	**23**	**1-77**
NIED	III	31 13 08 00	37.70N	141.90E	5	3.8W		**¶17199297**
IDC	III	31 13 08 03.8–.79	37.54N	141.92E	0	3.8,3.6		

JMA III 31 13 08 04.1–.20 37.65N 141.90E 14–2 4.0,3.6
ISCJB III 31 13 08 05.2–.60 37.61N–.04 141.86E–.06 24 3.5b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ38.00000°,λ-96.00000°. NP2:ϕ_s296.00000°,δ52.00000°,λ-85.00000°. $M_0$5.04000×10^{14}
ISCJB Event type ke.
ISC III 31 13 10 52.6–1.8 37.67N–.04 141.83E–.06 9–10 4.1b 44 1-146
IDC III 31 13 10 51.5–.56 37.67N 141.80E 0 4.2,4.1 **¶16475960**
ISCJB III 31 13 10 52.1–1.1 37.62N–.04 141.92E–.06 17–7 4.0b,3.5s
JMA III 31 13 10 52.4–.10 37.66N 141.89E 14–2 4.4,3.5s
NEIC III 31 13 10 56.7–.39 37.67N 141.82E 35 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=13.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.7km az=23.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.1km az=148.0.
ISC III 31 13 30 23.9–2.0 40.20N–.04 142.48E–.07 8–11 3.8b 40 1-88
NIED III 31 13 30 00 40.20N 142.50E 11 3.8W **¶16459658**
IDC III 31 13 30 22.4–.72 40.17N 142.55E 0 3.9,3.8
ISCJB III 31 13 30 24.2–1.1 40.25N–.04 142.55E–.07 21–7 3.8b,3.8
JMA III 31 13 30 24.8–.10 40.23N 142.51E 28–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ44.00000°,λ-62.00000°. NP2:ϕ_s262.00000°,δ53.00000°,λ-114.00000°. $M_0$6.53000×10^{14}
IDC Error ellipse: s-maj=18.1km s-min=17.3km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.1km az=178.8.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC III 31 13 42 55.9–1.8 38.34N–.04 142.27E–.05 7–10 4.2b,3.5s 58 1-145
NIED III 31 13 42 00 38.40N 142.20E 26 4.3W,3.5s **¶16459659**
IDC III 31 13 42 55.2–.54 38.33N 142.28E 0 4.2,4.0
ISCJB III 31 13 42 56.3–1.1 38.37N–.03 142.30E–.05 19–7 4.1b,3.5s
JMA III 31 13 42 58.3–.10 38.43N 142.21E 27–2 4.2,3.5s
NEIC III 31 13 43 00.1–.40 38.31N 142.29E 35 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ61.00000°,λ-30.00000°. NP2:ϕ_s289.00000°,δ64.00000°,λ-147.00000°. $M_0$2.94000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=12.4km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.3km az=27.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.8km az=130.0.
ISC III 31 14 20 32.8–1.8 38.89N–.05 142.38E–.06 12–10 3.9b 44 1-88
NIED III 31 14 20 00 39.00N 142.40E 26 3.8W **¶16475965**
IDC III 31 14 20 30.6–.81 38.76N 142.45E 0 4.0,3.8
JMA III 31 14 20 35.1–.10 38.96N 142.39E 36–2 3.8,3.8
NEIC III 31 14 20 37.0–1.1 38.86N 142.44E 48–11 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ19.00000°,λ-46.00000°. NP2:ϕ_s177.00000°,δ77.00000°,λ-103.00000°. $M_0$5.47000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=17.7km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=9.0km az=117.0.
ISC III 31 14 42 32.9–1.0 38.45N–.05 142.67E–.05 16–6 4.6b,3.7s 131 1-145
NIED III 31 14 42 00 38.40N 142.70E 17 4.4W,3.7s **¶602705617**
IDC III 31 14 42 30.3–.53 38.33N 142.67E 0 4.5,4.4
ISCJB III 31 14 42 30.7–.25 38.42N–.03 142.72E–.03 10 4.5b,3.8s
JMA III 31 14 42 33.5–.10 38.39N 142.67E 25–3 4.5,3.8s
NEIC III 31 14 42 36.7–.74 38.51N 142.57E 39–6 4.6b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ21.00000°,λ-177.00000°. NP2:ϕ_s177.00000°,δ89.00000°,λ-69.00000°. $M_0$4.36000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=13.1km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.0km az=160.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.1km az=146.0.
ISC III 31 15 04 01.9–2.4 38.06N–.04 142.43E–.06 11–14 3.8b 52 1-89
IDC III 31 15 04 00.7–.70 38.04N 142.41E 0 3.9,3.8L **¶600574007**
JMA III 31 15 04 03.9–.30 38.08N 142.36E 30–4 4.0,3.8L
NEIC III 31 15 04 05.9–.89 38.08N 142.39E 38–8 4.6b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=15.3km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=94.0.
ISC III 31 15 24 52.2–2.1 38.95N–.05 142.44E–.08 11–12 3.5b 23 1-63
IDC III 31 15 24 50.4–1.4 38.87N 142.60E 0 3.5,3.3b **¶17199305**
ISCJB III 31 15 24 51.9–1.3 38.89N–.04 142.55E–.08 19–8 3.3b,3.3b
JMA III 31 15 24 54.2–.10 38.92N 142.42E 33–2 3.5,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=42.7km s-min=29.5km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=7.0km az=178.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 31 15 55 21.7–.50 36.72N 141.93E 37 3.4
¶603145342
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
JMA III 31 16 02 19.5 36.68N 140.66E 4–1 1.7
¶603049290
ISC III 31 16 36 18.9–2.3 39.78N–.05 142.4E–.10 30–12 3.4b 20 0-45
IDC III 31 16 36 14.4–12 39.93N 142.55E 0 3.5,3.5b **¶17199316**
JMA III 31 16 36 20.2–.10 39.75N 142.37E 41–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=242.1km s-min=45.4km az=102.0.
ISC III 31 16 53 39.6–2.0 37.77N–.05 141.86E–.09 27–13 3.4b 30 1-62
IDC III 31 16 53 29.4–2.3 38.34N 142.58E 0 3.6,3.5 **¶17199319**
JMA III 31 16 53 40.8–.10 37.83N 141.80E 48–2 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=57.1km s-min=26.2km az=57.0.
JMA Event type fe.
JMA III 31 17 20 54.8 36.69N 140.62E 5 0.7
¶602705027
ISC III 31 17 21 35.5–1.0 36.95N–.05 141.28E–.05 19–4 4.4b,3.9s 93 0-147
NIED III 31 17 21 00 37.00N 141.30E 14 4.2W,3.9s **¶16401570**
ISCJB III 31 17 21 34.6–.79 36.93N–.03 141.33E–.05 25–5 4.3b,3.8s
JMA III 31 17 21 35.9–.10 36.96N 141.22E 34–1 4.4,3.8s
IDC III 31 17 21 39.1–1.6 36.91N 141.23E 47–15 4.1,4.0
NEIC III 31 17 21 39.8–.81 36.93N 141.18E 53–7 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ47.00000°,λ-113.00000°. NP2:ϕ_s69.00000°,δ48.00000°,λ-67.00000°. $M_0$2.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.1km az=25.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=10.3km az=82.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.8km az=102.0. Recorded [3 JMA] in Fukushima.
ISC III 31 17 29 57.4–1.7 37.20N–.05 141.65E–.08 27–12 3.6b 23 1-155
IDC III 31 17 29 53.4–.95 37.19N 141.99E 0 3.8,3.6 **¶17199323**
ISCJB III 31 17 29 56.5–1.4 37.13N–.04 141.68E–.08 26–9 3.6b,3.6
JMA III 31 17 30 00.1–.10 37.20N 141.43E 47–2 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=21.8km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.2km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 31 17 33 41.7–.10 39.21N 142.30E 42–1 3.6
¶602705021
JMA Event type fe.
ISC III 31 17 36 33.5–1.3 36.57N–.05 141.4E–.10 19 3.4b 14 1-57
IDC III 31 17 36 29.2–2.4 36.74N 141.88E 0 3.7,3.6 **¶17199324**
JMA III 31 17 36 34.2–.20 36.58N 141.57E 42–4 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=57.0km s-min=24.5km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 31 18 16 41.8–2.5 35.9N–.10 141.3E–.10 14–14 3.3b 13 0-51
IDC III 31 18 16 42.1–4.3 36.35N 141.30E 0 3.4,3.3b **¶602704950**
JMA III 31 18 16 48.2–.10 35.82N 140.85E 8–1 2.8,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=102.1km s-min=30.1km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 31 18 16 52.0–.10 37.28N 141.21E 33–1 3.6
NIED III 31 18 16 00 37.30N 141.20E 26 3.4W **¶600574258**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ25.00000°,λ-62.00000°. NP2:ϕ_s232.00000°,δ68.00000°,λ-102.00000°. $M_0$1.50000×10^{14}
ISC III 31 18 43 58.7–1.9 35.91N–.05 141.65E–.08 26–15 3.5b 28 1-70
IDC III 31 18 43 55.0–.89 35.85N 141.90E 0 3.8,3.8L **¶17199336**
JMA III 31 18 43 59.0–.10 35.97N 141.63E 49–3 3.4,3.8L
ISCJB III 31 18 43 59.3–.96 35.92N–.04 141.64E–.09 44–9 3.5b,2.9s
ISC Event type ke.
ISCJB Event type ke.
JMA III 31 19 34 52.0 36.74N 140.60E 7 0.9
¶600574364
JMA III 31 20 07 02.4 36.90N 140.50E 7–1 1.3
¶603049292
ISC III 31 20 07 25.5–1.4 35.75N–.08 141.8E–.10 22 3.7b 11 3-84
IDC III 31 20 07 20.1–1.8 36.05N 142.64E 0 3.9,3.8 **¶17199348**
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=25.0km az=63.0.
JMA III 31 20 22 58.2–.20 38.44N 142.26E 27–2 3.9
¶602705460
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 31 20 24 05.2–2.3 39.21N–.05 142.4E–.10 27–13 3.6b 23 1-63
IDC III 31 20 23 58.5–2.0 39.41N 143.04E 0 3.8,3.7 **¶17199349**
NIED III 31 20 24 00 39.20N 142.40E 32 3.9W,3.7
ISCJB III 31 20 24 03.7–1.4 39.18N–.04 142.49E–.09 28–7 3.5b,3.2s
JMA III 31 20 24 05.5–.10 39.22N 142.39E 31–1 4.0,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=48.6km s-min=22.8km az=62.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ27.00000°,λ-157.00000°. NP2:ϕ_s156.00000°,δ80.00000°,λ-65.00000°. $M_0$6.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.2km az=178.8.
JMA Event type fe.
ISC III 31 20 35 27.1–1.7 37.37N–.04 141.78E–.07 26–11 4.1b 40 1-94
NIED III 31 20 35 00 37.40N 141.60E 50 3.9W **¶16476021**
IDC III 31 20 35 22.6–1.0 37.51N 142.11E 0 4.0,4.0
NEIC III 31 20 35 27.3–.58 37.41N 142.03E 35 4.6b,4.0
ISCJB III 31 20 35 27.1–.84 37.32N–.03 141.81E–.07 45–7 4.2b,3.0s
JMA III 31 20 35 30.2–.10 37.38N 141.55E 44–2 3.8,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ23.00000°,λ105.00000°. NP2:ϕ_s19.00000°,δ68.00000°,λ84.00000°. $M_0$7.42000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=18.9km az=93.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.7km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.6km az=5.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 31 20 44 41.8–.20 37.70N 141.87E 15–3 3.5
¶602705417
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 31 21 18 56.6–.10 39.16N 142.40E 33–1 3.6
NIED III 31 21 18 00 39.20N 142.40E 35 3.7W **¶600574450**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ38.00000°,λ-101.00000°. NP2:ϕ_s136.00000°,δ53.00000°,λ-81.00000°. $M_0$4.47000×10^{14}
ISC III 31 21 24 21.6–1.7 36.20N–.07 141.9E–.10 15 3.6b 11 1-60
IDC III 31 21 24 11.3–3.1 37.19N 142.84E 0 3.5,3.4b **¶602705365**
ISCJB III 31 21 24 19.3–1.2 36.13N–.06 142.1E–.10 15 3.5b,3.4b
JMA III 31 21 24 23.1–.30 36.21N 141.83E 62 2.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=79.7km s-min=34.1km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=8.3km az=178.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 31 21 28 49.7–.10 37.41N 141.27E 25–1 3.5
NIED III 31 21 28 00 37.40N 141.30E 20 3.4W **¶600574456**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ35.00000°,λ6.00000°. NP2:ϕ_s58.00000°,δ87.00000°,λ125.00000°. $M_0$1.61000×10^{14}
JMA III 31 22 16 23.4–.40 38.39N 142.18E 34 1.7
¶602704678
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 31 22 16 56.6–1.2 38.27N–.05 141.82E–.08 50–9 4.2b 91 0-146
NIED III 31 22 16 00 38.30N 141.70E 50 4.2W **¶602443955**
ISCJB III 31 22 16 55.8–.62 38.30N–.04 141.81E–.06 57–4 4.2b,3.5s
NEIC III 31 22 16 56.9–.77 38.22N 141.90E 56–7 4.5b,3.5s
IDC III 31 22 16 57.7–1.9 38.30N 141.76E 57–17 4.2,4.1
JMA III 31 22 16 57.0–.10 38.30N 141.74E 51–1 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ38.00000°,λ-112.00000°. NP2:ϕ_s60.00000°,δ55.00000°,λ-74.00000°. $M_0$2.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=30.1.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.3km az=130.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=12.9km s-min=10.9km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 31 22 24 01.2–.10 38.70N 142.16E 36–2 3.6
¶602704670
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 31 22 25 12.6–.10 37.72N 141.90E 17–2 3.7
¶602704666
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 31 22 49 10.7–2.3 35.30N–.08 141.4E–.20 25 3.5b 8 1-59
IDC III 31 22 49 06.8–2.9 35.68N 141.90E 0 3.7,3.6b **¶17199360**
JMA III 31 22 49 12.7–.20 35.30N 141.12E 31–3 3.0,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=90.2km s-min=25.6km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 31 23 11 50.2–.10 38.18N 141.61E 56–1 3.5
¶602704618
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 31 23 13 20.3–1.0 36.11N–.05 140.01E–.07 74–7 3.7b 24 0-56
IDC III 31 23 13 07.2–2.6 36.46N 141.02E 0 3.7,3.7L **¶17199363**
ISCJB III 31 23 13 19.5–.71 36.11N–.04 140.01E–.08 82–5 3.4b,3.7L
JMA III 31 23 13 21.1–.10 36.12N 139.99E 68–1 2.8,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=67.5km s-min=32.9km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.8km az=6.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 31 23 30 27.9–1.1 35.73N–.05 140.97E–.08 35–3 3.5b 21 0-75
IDC III 31 23 30 22.1–1.2 35.59N 141.09E 0 3.7,3.5 **¶17199364**
ISCJB III 31 23 30 26.0–1.1 35.77N–.06 141.2E–.10 35–9 3.5b,2.6s
JMA III 31 23 30 27.6–.10 35.74N 140.96E 34–1 3.2,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=27.0km s-min=24.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=16.9km s-min=9.3km az=159.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 01 00 24 55.9–.30 38.16N 142.47E 30 3.5
¶600574595
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 01 00 48 46.2–.10 39.55N 142.54E 28–1 2.8
¶600574620
JMA IV 01 00 49 11.5–.10 38.15N 142.08E 9–2 3.6
NIED IV 01 00 49 00 38.10N 142.10E 5 3.6W **¶600574623**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ30.00000°,λ-58.00000°. NP2:ϕ_s131.00000°,δ64.00000°,λ-107.00000°. $M_0$2.85000×10^{14}
ISC IV 01 01 01 01.8–1.5 36.36N–.04 141.11E–.07 28–10 3.9b,3.2s 31 1-91
NIED IV 01 01 01 00 36.30N 141.00E 35 4.0W,3.2s **¶16509606**

IDC IV 01 01 01 01.4–6.0 35.51N 141.10E 65–37 3.8L,3.7
ISCJB IV 01 01 01 02.3–.80 36.33N–.04 141.09E–.08 45–6 3.8b,3.4s
NEIC IV 01 01 01 02.3–2.9 36.02N 141.17E 47–17 4.1b,3.4s
JMA IV 01 01 01 02.7–.10 36.33N 141.03E 47–1 3.7,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ13.00000°,λ111.00000°. NP2:ϕ_s20.00000°,δ78.00000°,λ85.00000°. $M_0$1.04000×10^{15}
IDC Error ellipse: s-maj=85.7km s-min=25.1km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.0km az=3.3.
NEIC Event type se. Error ellipse: s-maj=58.9km s-min=18.0km az=172.0.
JMA Event type fe.
ISC IV 01 01 12 50.5–1.9 36.66N–.09 141.8E–.10 10 3.3b 16 1-45
IDC IV 01 01 12 39.7–5.5 33.05N 140.07E 0 3.5,3.5 **¶600574646**
JMA IV 01 01 12 52.8–.20 36.63N 141.73E 54–4 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=97.7km s-min=48.4km az=152.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 01 01 41 28.1–.10 36.58N 140.98E 47–1 2.7 ¶16506143
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 01 01 42 29.8–1.8 36.22N–.05 141.24E–.06 13–11 3.8b 28 1-91
NIED IV 01 01 42 00 36.20N 141.30E 8 3.8W **¶600574681**
IDC IV 01 01 42 27.7–.75 36.16N 141.27E 0 3.9,3.8
JMA IV 01 01 42 30.0–.10 36.18N 141.31E 45–3 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ19.00000°,λ-69.00000°. NP2:ϕ_s75.00000°,δ72.00000°,λ-97.00000°. $M_0$4.73000×10^{14}
IDC Error ellipse: s-maj=20.7km s-min=19.9km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 03 36 22.5–.74 38.46N–.04 142.30E–.04 17–4 4.2b 98 1-151
NIED IV 01 03 36 00 38.50N 142.20E 20 4.2W **¶16506146**
ISCJB IV 01 03 36 20.5–.99 38.42N–.03 142.35E–.05 16–6 4.1b,3.6s
JMA IV 01 03 36 22.9–.10 38.46N 142.24E 32–2 4.4,3.6s
MOS IV 01 03 36 23.1–1.3 38.52N 142.39E 34 4.4b,3.6s
NEIC IV 01 03 36 23.1–2.3 38.41N 142.26E 19–14 4.6b,3.6s
IDC IV 01 03 36 27.4–2.1 38.36N 142.23E 54–19 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ26.00000°,λ-62.00000°. NP2:ϕ_s291.00000°,δ67.00000°,λ-103.00000°. $M_0$1.99000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=27.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=6.1km az=87.3.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.8km az=103.0.
IDC Error ellipse: s-maj=16.0km s-min=11.2km az=95.0.
ISC IV 01 03 43 05.7–2.0 36.46N–.07 141.0E–.10 32 7 0-2
JMA IV 01 03 43 04.1–.10 36.48N 141.25E 46–2 2.6 **¶602597383**
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 03 43 19.8–1.8 37.3N–.10 141.4E–.20 60 3.4b 7 1-57
ISCJB IV 01 03 43 17.7–1.7 37.2N–.10 141.5E–.20 60 3.4b **¶600574752**
JMA IV 01 03 43 17.3–.30 37.29N 141.58E 39–3 3.2
IDC IV 01 03 43 18.0–2.5 36.54N 139.91E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=17.2km az=12.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=60.5km s-min=29.3km az=51.0.
ISC IV 01 04 14 17.6–1.7 38.38N–.04 142.02E–.07 26–12 4.0b 35 1-89
NIED IV 01 04 14 00 38.40N 142.00E 44 3.9W **¶16509605**
ISCJB IV 01 04 14 17.7–.89 38.37N–.04 142.05E–.08 41–8 3.8b
NEIC IV 01 04 14 19.2–.60 38.41N 142.20E 35 4.5b
JMA IV 01 04 14 19.0–.10 38.44N 141.96E 42–1 3.8
IDC IV 01 04 14 20.9–2.5 38.32N 142.10E 55–24 3.8,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ39.00000°,λ180.00000°. NP2:ϕ_s119.00000°,δ90.00000°,λ51.00000°. $M_0$7.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.9km az=12.5.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=8.3km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=13.4km az=97.0.
ISC IV 01 04 36 32.1–2.5 39.44N–.05 142.5E–.10 25–13 3.5b 21 1-67
JMA IV 01 04 36 31.4–.10 39.43N 142.55E 32–1 3.6 **¶17199381**
IDC IV 01 04 36 47.1–4.0 39.64N 140.86E 87–38 3.5,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.0km s-min=23.1km az=73.0.
JMA IV 01 04 50 48.9–.20 39.15N 142.99E 10–3 3.8
NIED IV 01 04 50 00 39.20N 143.00E 5 3.9W **¶600574782**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ14.00000°,λ165.00000°. NP2:ϕ_s90.00000°,δ86.00000°,λ76.00000°. $M_0$6.96000×10^{14}
ISC IV 01 04 51 44.2–1.2 36.2N–.10 140.51E–.08 50 3.5b 19 0-91
IDC IV 01 04 51 39.7–3.8 34.83N 139.97E 59–32 3.6,3.5 **¶17199383**
ISCJB IV 01 04 51 42.7–1.1 36.18N–.10 140.59E–.08 50 3.5b,3.5
JMA IV 01 04 51 44.1–.10 36.25N 140.48E 51–1 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=25.2km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=8.7km az=160.5.
JMA Event type fe.
JMA IV 01 04 59 52.1–.10 36.65N 141.14E 26–2 3.3 ¶603308244
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 01 05 00 04.3–1.5 36.80N 140.46E 0 3.8,3.5 ¶17199384
IDC Error ellipse: s-maj=28.9km s-min=25.7km az=179.0.
ISC IV 01 05 16 38.8–1.2 38.53N–.05 141.75E–.09 51–9 3.6b 27 0-73
NIED IV 01 05 16 00 38.50N 141.70E 68 3.8W **¶17199386**
ISCJB IV 01 05 16 37.8–.83 38.51N–.05 141.76E–.09 60–5 4.1s,3.6b
JMA IV 01 05 16 38.8–.10 38.54N 141.71E 55–1 3.8,3.6b
IDC IV 01 05 16 43.4–3.0 38.46N 141.57E 96–27 4.1s,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ22.00000°,λ120.00000°. NP2:ϕ_s46.00000°,δ71.00000°,λ78.00000°. $M_0$5.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.5km az=20.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.0km s-min=16.8km az=85.0.
ISC IV 01 05 34 05.6–2.2 36.99N–.07 141.61E–.09 11–12 3.5b 17 1-74
ISCJB IV 01 05 34 05.7–1.7 36.96N–.05 141.63E–.10 22–9 3.5b **¶600574802**
IDC IV 01 05 34 06.2–1.3 36.74N 141.00E 0 3.6,3.5
JMA IV 01 05 34 07.5–.20 36.93N 141.49E 48–2 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=8.8km az=13.0.
IDC Error ellipse: s-maj=36.2km s-min=27.6km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 01 05 49 26.4–.10 36.25N 141.10E 47–2 2.6 ¶600574811
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 01 05 54 49.4–.10 36.86N 141.13E 48–1 2.6 ¶600574812
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 01 07 14 49.3–.30 38.54N 142.88E 8–4 3.6 ¶600574871
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 01 07 38 20.7–2.2 37.41N–.05 141.54E–.08 0–13 3.3b 21 1-90
IDC IV 01 07 38 10.1–2.7 37.11N 143.37E 0 3.5,3.3 **¶17199393**
JMA IV 01 07 38 24.9–.10 37.48N 141.43E 27–2 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=91.3km s-min=33.8km az=178.0.
ISC IV 01 07 44 36.3–.66 38.19N–.05 142.10E–.06 30 3.8b 40 1-151
ISCJB IV 01 07 44 34.5–.50 38.17N–.04 142.27E–.05 30 3.9s,3.8b **¶600574895**
JMA IV 01 07 44 36.4–.20 38.28N 142.20E 39–3 4.0,3.8b
NEIC IV 01 07 44 39.6–1.3 38.23N 142.22E 58–12 4.4b,3.8b
IDC IV 01 07 44 43.3–2.8 38.18N 142.00E 93–25 3.8s,3.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.0km az=149.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=11.8km az=116.0.
IDC Error ellipse: s-maj=19.2km s-min=15.8km az=91.0.
JMA IV 01 07 57 56.0–.10 38.27N 142.07E 43–2 3.8 ¶603308245
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 01 08 13 28.3–.97 36.72N–.03 140.59E–.05 9–6 3.5b 22 0-91
IDC IV 01 08 13 26.9–.94 36.72N 140.62E 0 3.7,3.5 **¶600574905**
ISCJB IV 01 08 13 27.2–.86 36.69N–.04 140.71E–.06 13–4 3.4b,3.5
JMA IV 01 08 13 28.4 36.73N 140.59E 7–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=20.9km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.7km az=28.5.
JMA Event type fe.
ISC IV 01 08 25 23.3–1.2 36.98N–.03 140.83E–.07 11–7 3.5b 20 0-64
IDC IV 01 08 25 21.4–1.1 37.08N 141.26E 0 3.6,3.4b **¶17199399**
ISCJB IV 01 08 25 22.5–1.0 36.96N–.03 140.93E–.07 9–5 3.5b,3.4b
JMA IV 01 08 25 24.0 36.98N 140.77E 8–1 2.9,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=25.2km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.2km az=10.7.
JMA Event type fe.
ISC IV 01 08 34 43.6–.86 36.30N–.06 140.47E–.06 51–6 3.7b 24 0-91
NIED IV 01 08 34 00 36.20N 140.50E 65 3.9W **¶17199400**
ISCJB IV 01 08 34 43.0–.61 36.28N–.05 140.50E–.07 57–4 3.7b
JMA IV 01 08 34 43.4–.10 36.25N 140.48E 52–1 3.5
IDC IV 01 08 34 46.9–1.8 36.14N 140.25E 84–17 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ22.00000°,λ120.00000°. NP2:ϕ_s6.00000°,δ71.00000°,λ78.00000°. $M_0$8.23000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=8.5km az=7.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s21.00000°,δ81.00000°,λ96.00000°. NP2:ϕ_s164.00000°,δ11.00000°,λ54.00000°. Principal axes: T Plg53.0000°,Azm298.0000°; N Plg6.0000°,Azm200.0000°; P Plg36.0000° ,Azm105.0000°
IDC Error ellipse: s-maj=23.3km s-min=12.0km az=70.0.
ISC IV 01 09 00 19.1–.69 40.15N–.07 142.85E–.07 12 4.0b,3.0s 32 1-87
NIED IV 01 09 00 00 40.10N 142.80E 26 4.0W,3.0s **¶16506148**
ISCJB IV 01 09 00 17.2–.51 40.12N–.06 142.99E–.06 12 3.9b,3.1s
JMA IV 01 09 00 20.7–.20 40.08N 142.81E 25–3 4.2,3.1s
IDC IV 01 09 00 25.0–2.9 40.03N 142.89E 64–26 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ17.00000°,λ95.00000°. NP2:ϕ_s34.00000°,δ73.00000°,λ88.00000°. $M_0$9.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=146.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=16.0km az=109.0.
JMA IV 01 09 14 44.2–.10 35.76N 141.03E 37–1 2.6 ¶600574934
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 01 10 02 15.3 36.89N 140.50E 8–1 2.5 ¶600574950
ISC IV 01 10 23 57.7–1.9 38.63N–.06 142.1E–.10 44–16 3.4b 27 1-62
NIED IV 01 10 23 00 38.60N 142.00E 59 3.9W **¶17199406**
ISCJB IV 01 10 23 56.9–1.1 38.62N–.05 142.1E–.10 54–8 3.4b
JMA IV 01 10 23 57.7–.10 38.62N 141.98E 53–1 3.8
IDC IV 01 10 24 00.5–3.3 38.64N 142.04E 74–30 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ57.00000°,λ-14.00000°. NP2:ϕ_s58.00000°,δ78.00000°,λ-146.00000°. $M_0$7.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.5km az=11.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.0km s-min=17.2km az=93.0.
JMA IV 01 10 25 57.2–.20 38.38N 142.25E 36–3 3.9
NIED IV 01 10 25 00 38.40N 142.20E 20 3.6W **¶600574961**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ30.00000°,λ-49.00000°. NP2:ϕ_s225.00000°,δ68.00000°,λ-111.00000°. $M_0$2.65000×10^{14}
ISC IV 01 10 28 31.9–1.7 37.36N–.04 141.49E–.06 1–10 3.9b 43 1-146
NIED IV 01 10 28 00 37.40N 141.40E 32 4.1W **¶16506149**
ISCJB IV 01 10 28 33.2–.90 37.38N–.03 141.48E–.06 19–6 3.8b,3.2s
JMA IV 01 10 28 35.1–.10 37.41N 141.35E 32–2 4.1,3.2s
IDC IV 01 10 28 39.0–1.9 37.34N 141.26E 56–19 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ48.00000°,λ-39.00000°. NP2:ϕ_s268.00000°,δ62.00000°,λ-131.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.6km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.2km az=89.0.
JMA IV 01 10 30 27.4 36.83N 140.55E 5–1 3.0 ¶600574962
JMA IV 01 10 37 17.1 36.26N 140.96E 34–1 2.5 ¶600574966
ISC IV 01 11 57 53.8–.28 39.38N–.02 142.03E–.03 40–1 5.9b,5.5s 2155 0-159
NIED IV 01 11 57 00 39.30N 142.20E 50 5.9W,5.5s **¶16403135**
BJI IV 01 11 57 49.8 39.18N 142.26E 39 5.9b,5.7
MOS IV 01 11 57 52.9–.85 39.49N 141.96E 35 6.2b,5.8s
ISCJB IV 01 11 57 53.8–.26 39.31N–.01 142.01E–.01 50–2 5.8b,5.5s
NEIC IV 01 11 57 54.4–.07 39.32N 141.95E 41 6.0W,5.9
JMA IV 01 11 57 54.6–.10 39.34N 142.17E 45–1 6.0,5.9
GCMT IV 01 11 57 54.4–.10 39.38N 142.17E 48–0 5.9W,5.9
NEIC IV 01 11 57 54.0–.00 39.35N 142.18E 38 5.9W,5.9
IDC IV 01 11 57 55.4–1.2 39.32N 142.06E 51–10 5.7,5.5
NEIC IV 01 11 58 10.6–.00 39.42N 142.17E 42 5.7,5.5
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ69.00000°. NP2:ϕ_s28.00000°,δ68.00000°,λ99.00000°. $M_0$8.59000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=101.7.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=158.8.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=147.0. Felt [IV] at Misawa. Recorded [4 JMA] in Aomori, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s27.00000° ,δ69.00000°,λ102.00000°. Principal axes: T 1.1200,Plg65.0000°,Azm317.0000° ; N -0.0900,Plg11.0000°,Azm203.0000°; P -1.0300,Plg23.0000°,Azm108.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s264.00000°,δ38.00000° ,λ137.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ60.00000°. Principal axes: T Plg59.0000° ,Azm257.0000°; N Plg0.0000°,Azm0.0000°; P Plg15.0000°,Azm141.0000°
JMA Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c270; s136,c413;Duration: 2s3 Moment tensor: Scale 10^{18}Nm; M_{rr}0.76±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.33±.01; $M_{\theta\phi}$-0.16±.01; $M_{\phi r}$0.57±.01; Best double couple: NP1:ϕ_s24.00000° ,δ66.00000°,λ99.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ70.00000°. Principal axes: T 1.0240,Plg68.0000°,Azm312.0000°; N -0.0250,Plg9.0000°,Azm200.0000° ; P -0.9980,Plg20.0000°,Azm106.0000° $M_0$1.01100×10^{18}
NEIC Event type se. Moment Tensor Solution. s51 Moment tensor: Scale 10^{17}Nm; M_{rr}5.04 $M_{\theta\theta}$-1.29 $M_{\phi\phi}$-3.75 $M_{r\theta}$2.28 $M_{\theta\phi}$-0.82 $M_{\phi r}$5.98 Best double couple: NP1:ϕ_s20.00000° ,δ72.00000°,λ91.00000°. NP2:ϕ_s195.00000°,δ18.00000°,λ86.00000°. Principal axes: T 8.3600,Plg62.0000°,Azm292.0000°; N -1.0500,Plg1.0000°,Azm199.0000° ; P -7.3100,Plg27.0000°,Azm108.0000° $M_0$7.90000×10^{17}
IDC Error ellipse: s-maj=9.6km s-min=8.0km az=76.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ22.00000° ,λ77.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ95.00000°. Principal axes: T 1.0400,Plg66.0000°,Azm298.0000°; N -0.0300,Plg5.0000°,Azm198.0000° ; P -1.0100,Plg24.0000°,Azm106.0000°
IDC IV 01 12 14 43.7–5.5 37.86N 141.55E 0 3.8,3.8 ¶16705148

IDC Error ellipse: s-maj=132.3km s-min=37.5km az=176.0.
ISC IV 01 12 15 06.2–.58 36.70N–.04 141.79E–.04 27–3 5.0b,4.9s 372 1-151
NIED IV 01 12 15 00 36.70N 142.10E 23 5.1W,4.9s **¶16403136**
JMA IV 01 12 15 02.3–.30 36.66N 142.13E 23 4.9,4.9s
ISCJB IV 01 12 15 04.7–1.2 36.65N–.03 141.89E–.04 29–8 4.9b,4.7s
MOS IV 01 12 15 05.2–1.1 36.67N 141.82E 32 5.2b,4.7s
IDC IV 01 12 15 05.9–5.1 36.65N 141.87E 28–35 4.7s,4.7
GCMT IV 01 12 15 06.0–.40 36.63N 142.12E 31–1 5.1W,4.7
NEIC IV 01 12 15 06.0–1.9 36.72N 141.83E 24–13 5.0b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ22.00000°,λ130.00000°. NP2:ϕ_s17.00000°,δ73.00000°,λ75.00000°. $M_0$4.37000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=20.0.
MOS Error ellipse: s-maj=7.7km s-min=4.5km az=120.9.
IDC Error ellipse: s-maj=13.9km s-min=10.5km az=107.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c12; s63,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.59±.40 $M_{\theta\theta}$-0.70±.23; $M_{\phi\phi}$-2.89±.23; $M_{r\theta}$1.53±.26; $M_{\theta\phi}$-1.78±.10; $M_{\phi r}$2.86±.22; Best double couple: NP1:ϕ_s28.00000°,δ65.00000°,λ89.00000°. NP2:ϕ_s210.00000°,δ25.00000°,λ91.00000°. Principal axes: T 4.8020,Plg70.0000°,Azm297.0000°; N 0.2970,Plg1.0000°,Azm29.0000°; P -5.0950,Plg20.0000°,Azm119.0000° $M_0$4.94800×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=123.0.
JMA IV 01 12 16 08.4–.10 38.86N 142.08E 43–2 4.3
¶600575080
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 01 12 30 40.0–.90 35.72N–.06 141.75E–.07 22 3.7b 19 1-65
IDC IV 01 12 30 36.8–.89 35.61N 141.84E 0 3.9,3.8 **¶17199417**
ISCJB IV 01 12 30 37.8–.68 35.61N–.05 141.92E–.06 22 3.7b,3.8
JMA IV 01 12 30 39.4–.20 35.79N 141.80E 16–3 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=16.4km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.2km az=31.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 12 45 25.6–1.3 39.65N–.05 142.2E–.10 44–10 3.8b 27 0-67
ISCJB IV 01 12 45 25.1–.96 39.65N–.04 142.2E–.10 53–6 3.8b **¶17199420**
JMA IV 01 12 45 25.6–.10 39.63N 142.20E 44–1 3.7
IDC IV 01 12 45 30.2–3.1 39.52N 142.07E 94–28 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=6.8km az=178.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.7km s-min=20.0km az=88.0.
JMA IV 01 13 04 25.0–.10 39.14N 142.39E 33–1 3.6
¶600575100
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 01 13 30 28.9–.60 38.43N–.05 142.19E–.07 41 4.2b 41 1-74
NIED IV 01 13 30 00 38.50N 142.20E 20 4.3W **¶17199424**
IDC IV 01 13 30 23.6–.61 38.33N 142.36E 0 4.1,4.0
NEIC IV 01 13 30 24.9–.47 38.40N 142.36E 10 4.6b,4.0
ISCJB IV 01 13 30 26.7–.45 38.43N–.04 142.22E–.05 41 4.1b,4.0
JMA IV 01 13 30 26.5–.20 38.47N 142.24E 33–3 4.3,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ22.00000°,λ-47.00000°. NP2:ϕ_s273.00000°,δ74.00000°,λ-105.00000°. $M_0$3.57000×10^{15}
IDC Error ellipse: s-maj=20.2km s-min=11.9km az=113.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=5.8km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=135.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 01 13 31 27.4–.20 36.58N 141.73E 57–3 3.9
NIED IV 01 13 31 00 36.60N 141.70E 8 4.1W **¶600575117**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ36.00000°,λ6.00000°. NP2:ϕ_s331.00000°,δ86.00000°,λ126.00000°. $M_0$1.75000×10^{15}
JMA IV 01 13 34 59.9–.30 38.49N 142.25E 23–4 3.8
¶603308246
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 01 14 12 09.7–.57 35.84N–.04 140.84E–.07 33 3.7b 32 0-148
IDC IV 01 14 12 04.0–.69 35.70N 140.77E 0 3.9,3.8 **¶16545140**
ISCJB IV 01 14 12 07.9–.46 35.84N–.04 141.04E–.06 33 3.7b,3.8
JMA IV 01 14 12 09.3–.10 35.86N 140.91E 37–1 3.5,3.8
NEIC IV 01 14 12 12.0–1.0 35.72N 140.70E 60–9 4.6b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=17.6km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=174.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s353.00000°,δ79.00000°,λ53.00000°. NP2:ϕ_s249.00000°,δ39.00000°,λ163.00000°. Principal axes: T Plg43.0000°,Azm227.0000°; N Plg37.0000°,Azm1.0000°; P Plg25.0000°,Azm111.0000°
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.5km az=75.0.
IDC IV 01 14 23 30.5–2.6 36.00N 141.34E 0 3.3,3.3b
¶17199429
IDC Error ellipse: s-maj=65.8km s-min=25.7km az=60.0.
ISC IV 01 14 44 35.3–.33 36.29N–.03 141.62E–.03 35–1 5.4b,5.0s 1214 1-161
NIED IV 01 14 44 00 36.20N 141.70E 23 5.3W,5.0s **¶16403147**
IDC IV 01 14 44 30.2–.34 36.24N 141.52E 0 5.0,5.0
ISCJB IV 01 14 44 32.5–.56 36.26N–.02 141.57E–.02 23–3 5.3b,5.0s
BJI IV 01 14 44 32.5 36.27N 141.43E 21 5.3b,5.2s
JMA IV 01 14 44 32.5–.20 36.24N 141.65E 63–4 5.2,5.2s
MOS IV 01 14 44 33.7–1.1 36.26N 141.49E 32 5.6b,5.2s
GCMT IV 01 14 44 35.1–.40 36.20N 141.54E 25 5.3W,5.2s
NEIC IV 01 14 44 35.1–.46 36.23N 141.50E 31–3 5.4b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ12.00000°,λ82.00000°. NP2:ϕ_s12.00000°,δ78.00000°,λ92.00000°. $M_0$8.54000×10^{16}
IDC Error ellipse: s-maj=10.2km s-min=7.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=170.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=111.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c27; s73,c104; Duration: 1$\mathfrak{0}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.56±.04 $M_{\theta\theta}$-0.08±.03; $M_{\phi\phi}$-0.48±.03; $M_{r\theta}$-0.01±.07; $M_{\theta\phi}$0.04±.02; $M_{\phi r}$1.11±.05; Best double couple: NP1:ϕ_s359.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s173.00000°,δ13.00000°,λ84.00000°. Principal axes: T 1.2660,Plg58.0000°,Azm271.0000°; N -0.0750,Plg1.0000°,Azm179.0000°; P -1.1910,Plg32.0000°,Azm88.0000° $M_0$1.22900×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=146.0.
JMA IV 01 14 51 52.2–.10 37.66N 141.75E 42–2 3.5
¶17199434
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 01 14 56 35.6–1.0 38.51N–.05 142.18E–.07 24 3.7b 22 1-62
IDC IV 01 14 56 32.0–.96 38.29N 142.39E 0 3.8,3.7b **¶600575163**
ISCJB IV 01 14 56 34.6–.77 38.47N–.04 142.24E–.06 24 3.6b,3.7b
JMA IV 01 14 56 35.4–.20 38.51N 142.20E 22–3 4.0,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=17.9km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.2km az=33.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 01 14 59 16.0–1.3 36.28N–.04 140.77E–.05 16–8 3.8b 26 0-75
ISCJB IV 01 14 59 16.3–.70 36.25N–.04 140.83E–.06 35–7 3.8b **¶17199436**
JMA IV 01 14 59 16.9 36.25N 140.83E 36–1 3.9
IDC IV 01 14 59 16.7–.86 36.87N 140.62E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=7.1km az=172.7.
JMA Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=19.3km az=107.0.
IDC IV 01 15 10 32.5–2.6 38.49N 141.31E 0 3.5b,3.4
¶17199437
IDC Error ellipse: s-maj=67.4km s-min=27.4km az=69.0.
ISC IV 01 15 36 24.6–.62 36.31N–.04 141.03E–.07 32 3.7b 28 0-79
IDC IV 01 15 36 19.6–.74 36.29N 141.09E 0 3.8,3.8 **¶17199438**
ISCJB IV 01 15 36 22.7–.53 36.32N–.04 141.19E–.06 32 3.7b,3.8
JMA IV 01 15 36 24.5–.10 36.30N 141.02E 47–1 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=15.1km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=9.3.
JMA Event type fe.
ISC IV 01 17 02 30.4–2.2 38.40N–.05 142.3E–.10 28–14 3.8b 22 1-62
IDC IV 01 17 02 25.3–2.3 38.57N 142.55E 0 3.7,3.6 **¶17199447**
ISCJB IV 01 17 02 30.9–1.3 38.38N–.05 142.3E–.10 47–12 3.6b,3.6
JMA IV 01 17 02 31.2–.10 38.40N 142.24E 33–2 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=59.2km s-min=25.1km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=7.6km az=18.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 01 18 00 58.1–1.7 38.34N–.04 142.19E–.06 17–10 3.8b 49 1-78
IDC IV 01 18 00 55.9–.92 38.30N 142.13E 0 3.9L,3.8 **¶16532003**
JMA IV 01 18 01 00.3–.10 38.38N 142.08E 36–2 4.1,3.8
NEIC IV 01 18 01 01.5–.79 38.30N 142.27E 45–8 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=17.4km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.9km az=101.0.
ISC IV 01 18 26 05.2–2.0 38.95N–.05 142.40E–.08 9–10 3.7b 24 1-59
NIED IV 01 18 26 00 39.00N 142.40E 59 3.8W **¶17199453**
ISCJB IV 01 18 26 05.5–1.3 38.93N–.04 142.42E–.08 19–7 3.5b
JMA IV 01 18 26 06.9–.10 38.99N 142.37E 33–2 4.0
IDC IV 01 18 26 11.9–3.6 38.81N 142.34E 68–34 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ45.00000°,λ-10.00000°. NP2:ϕ_s247.00000°,δ83.00000°,λ-135.00000°. $M_0$5.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.7km az=22.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=21.8km az=105.0.
ISC IV 01 18 45 26.5–1.1 36.84N–.05 141.36E–.06 43–10 4.0b 58 1-79
IDC IV 01 18 45 20.9–.93 37.02N 141.53E 0 4.0,4.0s **¶16532005**
ISCJB IV 01 18 45 25.5–.63 36.84N–.03 141.40E–.06 51–5 4.1b,4.1s
NEIC IV 01 18 45 27.8–.97 36.89N 141.43E 55–9 4.4b,4.1s
JMA IV 01 18 45 28.7–.10 36.85N 141.09E 49–1 4.0,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=24.0km s-min=17.2km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.5km az=11.4.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.6km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 01 19 09 37.3–.30 38.16N 142.82E 9 3.6
¶600575344
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 01 19 59 49.2–.47 38.87N–.04 142.03E–.04 48–3 4.9b,4.0s 609 1-145
NIED IV 01 19 59 00 38.90N 142.00E 47 4.7W,4.0s **¶602567181**
MOS IV 01 19 59 47.0–.85 38.94N 141.87E 35 5.3b,4.0s
ISCJB IV 01 19 59 49.4–.33 38.91N–.02 141.89E–.03 56–2 4.9b,4.0s
BJI IV 01 19 59 49.9 38.81N 141.89E 73 5.0b,5.0b
JMA IV 01 19 59 49.6–.10 38.88N 142.00E 49–1 4.9,5.0b
NEIC IV 01 19 59 51.2–.39 38.87N 141.85E 61–3 4.8b,5.0b
IDC IV 01 19 59 51.3–1.9 38.89N 141.89E 61–17 4.8,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ24.00000°,λ52.00000°. NP2:ϕ_s19.00000°,δ72.00000°,λ105.00000°. $M_0$1.36000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=102.2.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.7km az=141.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=146.0. Recorded [4 JMA] in Iwate.
IDC Error ellipse: s-maj=12.0km s-min=10.1km az=111.0.
ISC IV 01 21 40 29.7–1.9 36.06N–.08 141.3E–.10 26 8 0-56
IDC IV 01 21 40 22.0–3.6 36.56N 142.23E 0 3.4,3.2b **¶600575455**
ISCJB IV 01 21 40 27.4–1.6 36.03N–.08 141.4E–.10 26 3.3b,3.2b
JMA IV 01 21 40 30.2–.20 36.01N 141.26E 28–2 3.0,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=88.7km s-min=40.0km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=10.2km az=154.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 21 58 59.6–.83 38.61N–.06 142.02E–.09 41 4.0b,2.8s 42 1-82
IDC IV 01 21 58 55.0–2.0 38.96N 142.04E 0 4.1,3.9 **¶16485873**
ISCJB IV 01 21 58 57.7–.60 38.61N–.05 142.16E–.07 41 4.0b,2.9s
JMA IV 01 21 59 00.9–.10 38.64N 141.90E 50–1 3.9,2.9s
NEIC IV 01 21 59 00.1–2.9 38.92N 141.90E 31–21 4.1b,2.9s
NIED IV 01 21 59 00 38.60N 141.90E 50 4.2W,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=51.4km s-min=24.1km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.0km az=136.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=9.3km az=131.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ36.00000°,λ47.00000°. NP2:ϕ_s46.00000°,δ65.00000°,λ116.00000°. $M_0$2.01000×10^{15}
ISC IV 01 22 10 45.2–1.0 36.91N–.05 141.95E–.07 19 3.7b 18 1-69
IDC IV 01 22 10 42.0–1.2 36.93N 142.33E 0 3.8,3.8L **¶17199463**
ISCJB IV 01 22 10 43.3–.79 36.88N–.04 142.17E–.08 19 3.6b,3.8L
JMA IV 01 22 10 46.5–.30 36.98N 142.04E 32–5 4.0,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=31.0km s-min=21.7km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.3km az=169.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 01 22 43 55.2–1.6 35.8N–.10 141.4E–.10 26 3.2b 10 0-56
IDC IV 01 22 43 50.5–3.9 35.73N 141.69E 0 3.4,3.3b **¶17199464**
JMA IV 01 22 43 54.3–.30 35.88N 141.49E 20–3 3.1,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=115.9km s-min=33.7km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 01 22 51 14.1–3.3 38.66N 141.30E 0 3.3,3.2b
¶17199465
IDC Error ellipse: s-maj=72.0km s-min=42.4km az=72.0.
JMA IV 01 23 34 57.1 36.77N 140.57E 8–1 2.7
¶600575539
ISC IV 02 01 17 15.9–1.9 38.24N–.09 142.7E–.10 24 3.3b 19 1-44
IDC IV 02 01 17 01.6–7.7 38.00N 144.69E 0 3.5,3.5 **¶17199475**
JMA IV 02 01 17 17.5–.20 38.39N 142.64E 11–2 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=124.9km s-min=62.9km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 01 40 30.3–1.6 36.0N–.10 141.4E–.20 26 3.5b 12 1-60
IDC IV 02 01 40 25.8–2.4 36.10N 141.54E 0 3.6,3.6b **¶17199481**
ISCJB IV 02 01 40 27.8–1.1 36.1N–.10 141.5E–.10 26 3.5b,3.6b
JMA IV 02 01 40 34.2–.10 35.90N 140.85E 41–1 2.9,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=75.6km s-min=20.9km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=12.0km az=30.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 01 47 21.1–2.0 39.42N–.04 142.56E–.06 5–12 3.9b 33 1-96
ISCJB IV 02 01 47 21.6–1.2 39.39N–.04 142.67E–.07 18–8 3.7b,3.2s **¶17199483**
JMA IV 02 01 47 21.9–.10 39.39N 142.64E 26–1 4.0,3.2s
IDC IV 02 01 47 28.2–2.8 39.36N 142.59E 63–25 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.2km az=178.8.
IDC Error ellipse: s-maj=20.5km s-min=16.9km az=139.0.
ISC IV 02 04 08 07.4–.23 38.80N–.03 142.04E–.03 39–2 5.2b,4.7s 1258 1-161
NIED IV 02 04 08 00 38.80N 142.10E 44 5.2W,4.7s **¶16403565**
MOS IV 02 04 08 06.4–.80 38.93N 141.97E 35 5.3b,4.8s
NEIC IV 02 04 08 06.8–1.1 38.74N 141.92E 32–7 5.2b,4.8s
GCMT IV 02 04 08 06.8–.20 38.87N 142.10E 42–0 5.2W,4.8s
BJI IV 02 04 08 07.2 38.70N 141.98E 59 5.1b,5.0b
JMA IV 02 04 08 07.3–.10 38.77N 142.10E 42–2 5.2,5.0b
ISCJB IV 02 04 08 07.2–.35 38.79N–.02 141.98E–.02 47–3 5.1b,4.7s

IDC IV 02 04 08 09.2–1.9 38.80N 142.00E 53–16 5.0,5.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ42.00000°,λ-103.00000°. NP2:ϕ_s210.00000°,δ49.00000°,λ-79.00000°. $M_0$6.76000×10^{16}
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=97.4.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=134.0. Recorded [4 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c130; s92,c147; Duration: 0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.73±.02 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$0.67±.01; $M_{r\theta}$-0.01±.01; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$-0.01±.01; Best double couple: NP1:ϕ_s14.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_s194.00000°,δ44.00000°,λ-90.00000°. Principal axes: T 0.7180,Plg1.0000°,Azm104.0000°; N 0.0110,Plg0.0000°,Azm194.0000°; P -0.7280,Plg89.0000°,Azm308.0000° $M_0$0.72300×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=153.7.
IDC Error ellipse: s-maj=12.6km s-min=9.9km az=92.0.
ISC IV 02 05 08 02.2–.38 36.38N–.04 141.16E–.04 38–2 4.7b,3.8s 605 1-152
NIED IV 02 05 08 00 36.40N 141.10E 35 4.6W,3.8s **¶16403570**
MOS IV 02 05 08 01.0–.98 36.41N 141.01E 39 4.9b,3.8s
JMA IV 02 05 08 01.1–.10 36.42N 141.10E 45–2 4.6,3.8s
ISCJB IV 02 05 08 01.8–.45 36.40N–.03 141.04E–.03 45–3 4.7b,3.8s
IDC IV 02 05 08 02.9–1.6 36.37N 141.08E 46–16 4.4L,4.3
NEIC IV 02 05 08 03.2–.47 36.40N 141.04E 43–4 4.7b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ5.00000°,λ5.00000°. NP2:ϕ_s42.00000°,δ90.00000°,λ95.00000°. $M_0$8.33000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=89.8.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=146.8.
IDC Error ellipse: s-maj=13.2km s-min=9.9km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=140.0. Recorded [3 JMA] in Ibaraki.
ISC IV 02 05 32 55.8–.98 39.14N–.05 142.22E–.06 47–7 4.6b,4.2s 143 0-145
NIED IV 02 05 32 00 39.10N 142.40E 41 4.7W,4.2s **¶602567190**
JMA IV 02 05 32 53.0–.10 39.09N 142.39E 36–1 4.7,4.2s
ISCJB IV 02 05 32 54.6–.52 39.12N–.03 142.26E–.05 51–3 4.5b,4.1s
IDC IV 02 05 32 56.3–2.6 39.06N 142.29E 56–22 4.3,4.1
BJI IV 02 05 32 56.8 39.09N 141.84E 54 4.9b,4.8b
NEIC IV 02 05 32 57.2–.53 39.12N 142.25E 61–5 4.7b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ19.00000°,λ-152.00000°. NP2:ϕ_s188.00000°,δ81.00000°,λ-73.00000°. $M_0$1.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=34.6.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=130.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=139.0. Recorded [3 JMA] in Iwate.
ISC IV 02 05 34 27.8–.96 36.18N–.04 140.00E–.06 84–7 3.9b 24 0-60
NIED IV 02 05 34 00 36.30N 140.00E 47 4.4W **¶17199500**
IDC IV 02 05 34 13.1–2.5 36.61N 141.19E 0 4.0,3.9
ISCJB IV 02 05 34 26.8–.62 36.17N–.04 140.03E–.07 92–4 3.8b,3.9
JMA IV 02 05 34 28.2–.10 36.21N 139.98E 79–1 3.5,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ40.00000°,λ-160.00000°. NP2:ϕ_s155.00000°,δ77.00000°,λ-52.00000°. $M_0$4.61000×10^{15}
IDC Error ellipse: s-maj=69.5km s-min=24.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.2km az=1.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 06 23 59.7–.95 35.74N–.05 140.24E–.08 61–8 3.9b 31 0-79
IDC IV 02 06 23 49.6–1.5 36.06N 141.01E 0 4.0,4.0s **¶16499031**
NEIC IV 02 06 23 55.3–.76 35.95N 140.81E 35 4.3b,4.0s
ISCJB IV 02 06 23 58.7–.62 35.76N–.04 140.29E–.08 70–4 3.8b,4.0s
JMA IV 02 06 23 59.6–.10 35.80N 140.22E 63–1 3.2,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=45.9km s-min=16.8km az=67.0.
NEIC Event type se. Error ellipse: s-maj=20.4km s-min=7.8km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.6km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s351.00000°,δ78.00000°,λ100.00000°. NP2:ϕ_s132.00000°,δ15.00000°,λ52.00000°. Principal axes: T Plg56.0000°,Azm273.0000°; N Plg9.0000°,Azm169.0000°; P Plg32.0000°,Azm73.0000°
JMA IV 02 07 18 37.1–.10 37.80N 141.78E 30–3 3.7
¶600575830
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 07 30 36.9–2.1 39.06N–.05 142.33E–.09 23–14 3.5b 22 1-73
IDC IV 02 07 30 33.5–1.4 39.03N 142.28E 0 3.7,3.5 **¶17199507**
ISCJB IV 02 07 30 35.7–1.5 39.06N–.04 142.45E–.09 26–8 3.5b,3.5
JMA IV 02 07 30 37.7–.10 39.11N 142.36E 35–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=38.8km s-min=27.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=7.3km az=0.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 07 48 03.8–1.2 38.58N–.08 142.80E–.08 23 3.5b 16 1-59
IDC IV 02 07 48 00.0–1.4 38.52N 143.24E 0 3.6,3.5b **¶17199508**
ISCJB IV 02 07 48 02.8–.93 38.57N–.07 142.89E–.08 23 3.4b,3.5b
JMA IV 02 07 48 02.5–.20 38.56N 142.85E 16–3 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=26.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.5km az=18.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 02 08 07 25.6–.10 35.97N 141.11E 21–2 3.0
¶600575856
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 09 05 09.5–.99 36.94N–.03 140.51E–.04 9–6 4.5b,3.1s 126 0-147
NIED IV 02 09 05 00 36.90N 140.60E 5 4.2W,3.1s **¶16403923**
IDC IV 02 09 05 07.5–.52 36.90N 140.51E 0 4.3,4.2
ISCJB IV 02 09 05 08.6–.55 36.93N–.02 140.54E–.04 12–3 4.3b,3.1s
JMA IV 02 09 05 09.0 36.90N 140.60E 7–1 4.4,3.1s
MOS IV 02 09 05 11.3–1.3 37.01N 140.53E 32 4.7b,3.1s
NEIC IV 02 09 05 13.6–.23 36.96N 140.44E 35 4.5b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ27.00000°,λ-94.00000°. NP2:ϕ_s150.00000°,δ63.00000°,λ-88.00000°. $M_0$2.10000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=12.4km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=33.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s146.00000°,δ52.00000°,λ-77.00000°. NP2:ϕ_s306.00000°,δ40.00000°,λ-106.00000°. Principal axes: T Plg6.0000°,Azm227.0000°; N Plg10.0000°,Azm318.0000°; P Plg78.0000°,Azm106.0000°
MOS Error ellipse: s-maj=9.2km s-min=6.2km az=90.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=145.0.
ISC IV 02 10 22 54.5–1.1 36.80N–.03 140.50E–.04 7–7 4.5b,3.0s 95 0-147
NIED IV 02 10 22 00 36.80N 140.60E 5 4.1W,3.0s **¶602567187**
ISCJB IV 02 10 22 54.3–.53 36.81N–.03 140.55E–.03 12–3 4.3b,3.2s
JMA IV 02 10 22 54.5 36.82N 140.57E 6–1 4.4,3.2s
IDC IV 02 10 22 57.3–3.8 36.79N 140.43E 26–25 4.2,4.2
NEIC IV 02 10 22 59.1–.23 36.83N 140.45E 35 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ23.00000°,λ-104.00000°. NP2:ϕ_s179.00000°,δ67.00000°,λ-84.00000°. $M_0$1.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=142.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s201.00000°,δ84.00000°,λ-80.00000°. NP2:ϕ_s323.00000°,δ11.00000°,λ-147.00000°. Principal axes: T Plg38.0000°,Azm282.0000°; N Plg9.0000°,Azm20.0000°; P Plg50.0000°,Azm121.0000°
IDC Error ellipse: s-maj=15.1km s-min=12.7km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=167.0. Recorded [3 JMA] in Fukushima.
IDC IV 02 11 21 21.5–3.9 36.58N 140.57E 0 4.2,3.9
¶17199518
IDC Error ellipse: s-maj=77.3km s-min=29.3km az=25.0.

ISC IV 02 12 25 19.5–.68 36.23N–.04 141.68E–.05 34–2 4.3b,3.9s 148 1-147
NIED IV 02 12 25 00 36.50N 141.80E 23 4.5W,3.9s **¶600576001**
IDC IV 02 12 25 14.3–.50 36.17N 141.62E 0 4.3,4.2
BJI IV 02 12 25 14.5 36.01N 141.75E 10 5.0b,4.7b
MOS IV 02 12 25 18.5–1.0 36.38N 141.63E 31 4.8b,4.7b
JMA IV 02 12 25 19.9–.30 36.55N 141.82E 38 4.5,4.7b
NEIC IV 02 12 25 19.4–.44 36.23N 141.67E 35 4.6b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ47.00000°,λ-52.00000°. NP2:ϕ_s333.00000°,δ55.00000°,λ-123.00000°. $M_0$5.46000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.2km az=83.0.
MOS Error ellipse: s-maj=12.3km s-min=6.4km az=114.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=115.0.
ISC IV 02 12 59 02.2–1.0 35.57N–.05 140.04E–.06 75–7 3.3b 25 0-55
IDC IV 02 12 58 59.6–1.9 34.78N 138.19E 0 3.4,3.3 **¶17199525**
ISCJB IV 02 12 59 01.3–.65 35.56N–.04 140.03E–.07 79–5 3.1b,3.3
JMA IV 02 12 59 01.9–.20 35.61N 140.05E 70–2 2.9,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=56.6km s-min=14.4km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.5km az=161.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 02 13 18 52.0–.10 36.86N 141.14E 47–1 2.9
¶600576049
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 02 13 42 34.2 35.89N 140.85E 18–1 3.7
NIED IV 02 13 42 00 35.90N 140.80E 17 3.4W **¶600576066**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ35.00000°,λ-55.00000°. NP2:ϕ_s302.00000°,δ62.00000°,λ-112.00000°. $M_0$1.39000×10^{14}
ISC IV 02 14 00 03.1–1.5 38.43N–.06 142.24E–.10 35 20 1-62
IDC IV 02 13 59 43.1–8.8 40.61N 141.96E 0 3.6,3.5b **¶600576080**
ISCJB IV 02 14 00 01.9–.97 38.39N–.05 142.30E–.09 35 3.6b,3.3s
JMA IV 02 14 00 02.7–.10 38.43N 142.23E 35–2 3.5,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=217.0km s-min=81.7km az=153.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.7km az=6.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 14 22 23.7–3.6 38.36N–.05 142.26E–.07 16–22 3.7b 29 1-89
NIED IV 02 14 22 00 38.40N 142.30E 35 3.8W **¶17199534**
JMA IV 02 14 22 24.7–.10 38.39N 142.26E 34–2 3.8
IDC IV 02 14 22 31.4–3.3 38.25N 142.10E 77–29 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ34.00000°,λ-115.00000°. NP2:ϕ_s255.00000°,δ60.00000°,λ-74.00000°. $M_0$4.99000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=17.7km az=76.0.
ISC IV 02 14 57 33.7–1.2 36.17N–.08 141.74E–.09 26 3.5b 17 1-75
IDC IV 02 14 57 28.3–2.3 36.22N 142.08E 0 3.5,3.5b **¶17199539**
ISCJB IV 02 14 57 31.1–.93 36.21N–.06 141.94E–.08 26 3.4b,3.5b
JMA IV 02 14 57 31.1–.20 36.32N 141.96E 52 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=64.4km s-min=32.3km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.5km az=35.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 15 10 04.3–.65 36.99N–.05 141.46E–.05 16–3 3.6b 31 1-147
NIED IV 02 15 10 00 37.00N 141.40E 5 3.7W **¶17199540**
ISCJB IV 02 15 10 02.2–2.0 36.99N–.04 141.56E–.05 13–13 3.6b
JMA IV 02 15 10 05.1–.10 37.05N 141.36E 32–1 3.6
IDC IV 02 15 10 05.3–.76 37.01N 141.50E 20–4 3.8,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ25.00000°,λ-150.00000°. NP2:ϕ_s232.00000°,δ78.00000°,λ-68.00000°. $M_0$4.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.7km az=169.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=13.5km az=99.0.
ISC IV 02 18 23 31.9–1.2 38.58N–.04 142.02E–.09 41 3.6b,3.5s 21 1-73
NIED IV 02 18 23 00 38.60N 141.90E 44 3.7W,3.5s **¶17199558**
IDC IV 02 18 23 24.3–2.9 38.80N 142.52E 0 3.8,3.8
ISCJB IV 02 18 23 31.1–.96 38.57N–.05 142.1E–.10 41 3.6b,3.4s
JMA IV 02 18 23 33.1–.10 38.62N 141.90E 49–1 3.5,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ60.00000°,λ-160.00000°. NP2:ϕ_s122.00000°,δ72.00000°,λ-31.00000°. $M_0$3.61000×10^{14}
IDC Error ellipse: s-maj=67.5km s-min=29.5km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.5km az=10.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 19 02 20.7–2.8 37.03N–.05 141.64E–.07 1–17 3.4b 19 1-57
NIED IV 02 19 02 00 37.00N 141.50E 8 3.3W **¶17199565**
IDC IV 02 19 02 20.4–1.6 36.68N 141.71E 0 3.5,3.4b
JMA IV 02 19 02 24.2–.20 37.00N 141.51E 41–2 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ39.00000°,λ-128.00000°. NP2:ϕ_s40.00000°,δ60.00000°,λ-63.00000°. $M_0$1.12000×10^{14}
IDC Error ellipse: s-maj=35.9km s-min=28.7km az=172.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 19 40 06.9–1.3 35.05N–.05 141.4E–.10 35 3.5b 18 1-59
IDC IV 02 19 40 02.4–1.9 35.03N 141.35E 0 3.8,3.7b **¶17199567**
ISCJB IV 02 19 40 04.9–.97 35.03N–.05 141.43E–.09 35 3.6b,3.0s
JMA IV 02 19 40 05.3–.20 35.06N 141.34E 34 3.1,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=47.3km s-min=19.1km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.7km az=168.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 02 20 11 42.6–1.3 37.61N–.04 141.78E–.09 30 15 1-58
IDC IV 02 20 11 34.8–2.9 37.93N 142.51E 0 3.7,3.6 **¶17199572**
ISCJB IV 02 20 11 41.6–1.1 37.61N–.05 141.88E–.10 30 3.3b,3.6
JMA IV 02 20 11 44.4–.10 37.67N 141.73E 43–2 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=60.3km s-min=36.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.9km az=176.2.
ISC IV 02 20 52 25.1–3.2 37.36N–.06 141.6E–.10 5–20 14 1-57
IDC IV 02 20 52 24.5–1.9 37.46N 141.25E 0 3.4,3.2b **¶17199573**
JMA IV 02 20 52 28.9–.10 37.38N 141.38E 29–2 3.3,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=36.9km s-min=22.9km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 20 57 51.3–1.4 39.10N–.06 142.6E–.10 35 3.5b 16 1-63
NIED IV 02 20 57 00 39.10N 142.40E 56 4.0W **¶17199574**
IDC IV 02 20 57 44.5–2.2 39.23N 143.17E 0 3.8,3.7
ISCJB IV 02 20 57 49.3–1.0 39.10N–.06 142.7E–.10 35 3.4b,2.9s
JMA IV 02 20 57 51.9–.10 39.09N 142.42E 37–1 3.7,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ53.00000°,λ-164.00000°. NP2:ϕ_s156.00000°,δ77.00000°,λ-38.00000°. $M_0$1.27000×10^{15}
IDC Error ellipse: s-maj=57.3km s-min=21.7km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=8.1km az=171.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 02 21 52 33.3–2.0 39.47N–.05 142.83E–.07 9–11 4.2b,3.3s 66 1-81
NIED IV 02 21 52 00 39.50N 142.90E 11 4.1W,3.3s **¶16487702**
ISCJB IV 02 21 52 33.3–1.2 39.47N–.04 142.88E–.06 23–7 4.2b,3.2s
JMA IV 02 21 52 33.2–.20 39.51N 142.88E 21–2 4.4,3.2s
IDC IV 02 21 52 37.4–2.3 39.42N 142.85E 41–21 4.2,4.1
NEIC IV 02 21 52 37.4–.71 39.50N 142.86E 40–5 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ32.00000°,λ-37.00000°. NP2:ϕ_s67.00000°,δ71.00000°,λ-117.00000°. $M_0$1.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.1km az=30.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=13.5km az=111.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=4.8km az=124.0.

JMA IV 02 22 20 48.9–.10 38.37N 142.05E 33–2 3.7
¶600576330
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 02 22 53 52.9–2.0 38.38N–.04 142.44E–.08 6–12 4.0b 25 1-80
NIED IV 02 22 53 00 38.40N 142.30E 35 3.5W **¶17199581**
IDC IV 02 22 53 51.0–2.2 38.47N 142.83E 0 3.8,3.8
JMA IV 02 22 53 57.3–.20 38.44N 142.33E 37–3 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ29.00000°,λ-31.00000°. NP2:ϕ_s339.00000°,δ76.00000°,λ-115.00000°. $M_0$2.20000×10^{14}
IDC Error ellipse: s-maj=56.7km s-min=25.2km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 02 23 21 13.6–1.1 36.68N–.04 140.65E–.05 10–7 19 0-60
ISCJB IV 02 23 21 12.9–.95 36.67N–.04 140.72E–.07 11–4 3.5b **¶17199587**
JMA IV 02 23 21 14.1 36.71N 140.62E 6–1 3.1
IDC IV 02 23 21 15.4–4.1 36.09N 142.72E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.5km az=24.3.
JMA Event type fe.
IDC Error ellipse: s-maj=77.3km s-min=41.5km az=33.0.
ISC IV 03 00 09 54.0–1.5 36.71N–.09 141.9E–.10 19 3.6b 18 1-57
NIED IV 03 00 09 00 36.80N 141.70E 23 3.7W **¶17199589**
IDC IV 03 00 09 50.6–2.2 36.70N 142.04E 0 3.7,3.6
ISCJB IV 03 00 09 51.6–1.1 36.71N–.09 142.01E–.09 19 3.5b,3.6
JMA IV 03 00 09 55.6–.40 36.76N 141.70E 49–5 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ21.00000°,λ121.00000°. NP2:ϕ_s28.00000°,δ72.00000°,λ79.00000°. $M_0$4.04000×10^{14}
IDC Error ellipse: s-maj=44.9km s-min=29.8km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=10.5km az=176.5.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC IV 03 00 22 52.2–.88 36.98N–.04 140.73E–.06 27–6 3.5b 26 0-91
IDC IV 03 00 22 48.0–1.0 36.98N 140.87E 0 3.7,3.6 **¶17199590**
ISCJB IV 03 00 22 51.1–.70 36.95N–.03 140.89E–.06 31–3 3.5b,3.6
JMA IV 03 00 22 52.3 36.94N 140.75E 27–1 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.8km s-min=19.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.6km az=9.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ87.00000°,λ-107.00000°. NP2:ϕ_s103.00000°,δ17.00000°,λ-9.00000°. Principal axes: T Plg40.0000°,Azm307.0000°; N Plg17.0000°,Azm202.0000°; P Plg45.0000° ,Azm95.0000°
ISC IV 03 01 11 16.5–1.1 36.5N–.20 141.87E–.09 19 3.5b 10 3-64
ISCJB IV 03 01 11 14.0–.84 36.5N–.10 142.1E–.10 19 3.5b **¶17199594**
IDC IV 03 01 11 13.4–1.0 36.50N 142.00E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=12.3km az=177.5.
IDC Error ellipse: s-maj=26.6km s-min=22.4km az=83.0.
ISC IV 03 01 37 47.5–1.9 37.65N–.05 141.91E–.08 12–10 3.6b 29 1-146
IDC IV 03 01 37 45.4–.83 37.66N 142.03E 0 3.8,3.6 **¶17199597**
ISCJB IV 03 01 37 47.4–1.3 37.65N–.04 141.99E–.08 24–7 3.6b,3.6
JMA IV 03 01 37 48.4–.20 37.65N 141.97E 32–4 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.8km s-min=19.7km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.8km az=20.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 02 32 17.0–2.0 38.20N–.05 141.97E–.09 27–12 3.7b 25 1-77
NIED IV 03 02 32 00 38.20N 141.90E 47 3.8W **¶17199601**
JMA IV 03 02 32 19.1–.10 38.24N 141.91E 47–2 3.9
IDC IV 03 02 32 33.6–2.4 37.92N 140.54E 150–22 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s13.00000°,δ68.00000°,λ85.00000°. $M_0$5.43000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=16.1km az=82.0.
ISC IV 03 02 52 34.9–1.8 35.8N–.30 141.6E–.20 33 3.5b 7 3-60
ISCJB IV 03 02 52 32.7–1.7 35.8N–.20 141.7E–.30 33 3.5b **¶17199604**
IDC IV 03 02 52 40.6–4.2 35.60N 140.95E 64–37 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.6km s-min=20.9km az=42.5.
IDC Error ellipse: s-maj=34.1km s-min=25.6km az=81.0.
JMA IV 03 02 55 11.5–.20 35.71N 140.92E 8–1 3.4
¶17199605
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 02 55 54.3–2.0 37.31N–.05 141.68E–.07 7–11 3.8b 33 1-146
NIED IV 03 02 55 00 37.30N 141.70E 8 3.8W **¶600576443**
JMA IV 03 02 55 55.1–.20 37.31N 141.67E 28–3 3.8
IDC IV 03 02 56 04.5–3.3 37.24N 141.49E 90–30 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ29.00000°,λ-113.00000°. NP2:ϕ_s239.00000°,δ63.00000°,λ-77.00000°. $M_0$5.39000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=18.6km az=45.0.
JMA IV 03 02 56 30.3–.10 38.83N 142.05E 54–1 3.8
¶600576447
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 03 39 45.2–1.9 38.31N–.06 142.13E–.07 27–12 3.8b 49 1-146
NIED IV 03 03 39 00 38.30N 142.10E 35 4.1W **¶16506167**
JMA IV 03 03 39 44.6–.10 38.30N 142.12E 41–2 4.1
ISCJB IV 03 03 39 45.2–.99 38.29N–.04 142.08E–.08 41–8 3.9b,2.5s
IDC IV 03 03 39 50.6–2.5 38.32N 141.97E 73–21 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ33.00000°,λ3.00000°. NP2:ϕ_s41.00000°,δ89.00000°,λ123.00000°. $M_0$1.68000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.4km az=17.2.
IDC Error ellipse: s-maj=20.4km s-min=16.2km az=149.0.
JMA IV 03 03 48 52.2–.10 37.76N 141.70E 47–2 3.5
NIED IV 03 03 48 00 37.80N 141.70E 65 4.7W **¶600576467**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ27.00000°,λ-175.00000°. NP2:ϕ_s232.00000°,δ88.00000°,λ-63.00000°. $M_0$1.08000×10^{16}
JMA IV 03 03 59 38.2–.10 38.41N 142.18E 21 3.1
¶600576472
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 04 14 26.2–1.8 39.78N–.05 142.54E–.08 30–11 4.0b 43 1-73
NIED IV 03 04 14 00 39.70N 142.10E 50 4.0W **¶16529562**
IDC IV 03 04 14 21.1–1.3 39.89N 142.80E 0 3.8b,3.8
NEIC IV 03 04 14 25.9–2.2 39.87N 142.66E 29–15 4.2b,3.8
JMA IV 03 04 14 30.5 39.70N 142.12E 48–1 3.6,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ66.00000°,λ-159.00000°. NP2:ϕ_s142.00000°,δ71.00000°,λ-26.00000°. $M_0$9.62000×10^{14}
IDC Error ellipse: s-maj=36.4km s-min=18.6km az=74.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.0km az=105.0.
JMA Event type fe.
ISC IV 03 04 46 03.5–2.1 35.5N–.30 141.7E–.30 22 3.5b 6 3-59
IDC IV 03 04 46 00.2–2.8 35.65N 141.91E 0 3.5,3.4 **¶17199612**
ISCJB IV 03 04 46 02.1–1.5 35.5N–.20 141.8E–.20 22 3.4b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 05 40 19.9–1.6 38.83N–.05 142.1E–.10 50–13 4.1b,3.1s 41 1-81
NIED IV 03 05 40 00 38.90N 142.00E 41 4.0W,3.1s **¶17199618**
ISCJB IV 03 05 40 18.9–.97 38.84N–.04 142.1E–.10 57–7 4.1b,3.1s
JMA IV 03 05 40 19.9–.10 38.85N 142.02E 46–1 3.9,3.1s
IDC IV 03 05 40 22.5–2.2 38.82N 142.00E 74–20 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ19.00000°,λ94.00000°. NP2:ϕ_s22.00000°,δ71.00000°,λ89.00000°. $M_0$1.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.4km az=5.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=13.7km az=101.0.
ISC IV 03 06 26 42.1–1.8 38.34N–.05 141.9E–.10 43–15 3.7b 25 0-58
IDC IV 03 06 26 33.7–2.9 38.53N 142.51E 0 3.7,3.6b **¶17199623**
ISCJB IV 03 06 26 42.2–1.1 38.33N–.04 141.8E–.10 55–7 3.5b,3.6b
JMA IV 03 06 26 42.6–.10 38.34N 141.83E 49–1 3.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=68.6km s-min=34.8km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=5.9km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 06 27 44.7–.98 35.70N–.07 141.14E–.08 33 3.9b 22 0-75
NIED IV 03 06 27 00 35.70N 141.00E 44 4.0W **¶17199624**
IDC IV 03 06 27 39.0–1.4 35.77N 141.39E 0 3.9,3.9b
ISCJB IV 03 06 27 42.5–.77 35.70N–.05 141.24E–.08 33 3.8b,2.9s
JMA IV 03 06 27 45.5–.10 35.74N 140.97E 34–1 3.5,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ18.00000°,λ130.00000°. NP2:ϕ_s357.00000°,δ76.00000°,λ78.00000°. $M_0$1.23000×10^{15}
IDC Error ellipse: s-maj=41.1km s-min=18.0km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.5km az=167.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 03 07 37 10.0–.20 35.96N 141.13E 21–3 3.0
¶602567203
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 07 38 45.6–.28 37.59N–.03 141.57E–.03 57–2 5.3b,4.7s 1184 1-157
NIED IV 03 07 38 00 37.60N 141.60E 53 5.3W,4.7s **¶602567221**
MOS IV 03 07 38 41.9–.80 37.65N 141.43E 32 5.5b,4.7s
BJI IV 03 07 38 41.9 37.52N 141.74E 55 5.2b,5.0b
ISCJB IV 03 07 38 45.7–.26 37.66N–.02 141.48E–.02 64–2 5.3b,5.0b
IDC IV 03 07 38 45.9–.45 37.65N 141.53E 57–4 4.9,4.7
JMA IV 03 07 38 45.1 37.63N 141.65E 47–2 5.4,4.7
GCMT IV 03 07 38 46.5–.10 37.72N 141.57E 54–0 5.2W,4.7
NEIC IV 03 07 38 46.5–.38 37.64N 141.45E 59–3 5.4b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ38.00000°,λ107.00000°. NP2:ϕ_s197.00000°,δ54.00000°,λ77.00000°. $M_0$9.16000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=102.7.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=155.8.
IDC Error ellipse: s-maj=9.6km s-min=7.8km az=101.0.
JMA Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c155; s110,c184; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88±.02 $M_{\theta\theta}$-0.19±.01; $M_{\phi\phi}$-0.68±.01; $M_{r\theta}$0.10±.01; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$-0.26±.01; Best double couple: NP1:ϕ_s194.00000°,δ52.00000° ,λ76.00000°. NP2:ϕ_s37.00000°,δ40.00000°,λ108.00000°. Principal axes: T 0.9380,Plg77.0000°,Azm53.0000°; N -0.0820,Plg11.0000°,Azm203.0000° ; P -0.8580,Plg6.0000°,Azm294.0000° $M_0$0.89800×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=138.0. Recorded [4 JMA] in Fukushima and Miyagi.
ISC IV 03 07 51 03.6–.41 35.88N–.04 141.78E–.05 23 4.4b,3.8s 124 1-152
IDC IV 03 07 50 59.8–.51 35.90N 141.77E 0 4.4,4.3 **¶16404932**
NIED IV 03 07 51 00 36.00N 141.80E 17 4.3W,4.3
ISCJB IV 03 07 51 01.7–.28 35.90N–.03 141.80E–.04 23 4.4b,3.7s
JMA IV 03 07 51 02.6–.30 36.00N 141.77E 35–5 4.4,3.7s
NEIC IV 03 07 51 05.3–.61 35.85N 141.73E 38–5 4.6b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.5km az=87.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ35.00000°,λ-108.00000°. NP2:ϕ_s231.00000°,δ57.00000°,λ-78.00000°. $M_0$3.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=38.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.6km az=86.0.
ISC IV 03 07 53 07.1–.54 37.64N–.04 141.62E–.05 54–4 4.4b 90 1-152
NIED IV 03 07 53 00 37.70N 141.60E 53 4.3W **¶16506169**
ISCJB IV 03 07 53 05.1–.53 37.62N–.03 141.70E–.06 55–4 4.4b
NEIC IV 03 07 53 05.4–.28 37.67N 141.64E 35 4.5b
JMA IV 03 07 53 07.2–.10 37.68N 141.60E 46–2 4.3
IDC IV 03 07 53 07.5–.55 37.69N 141.52E 55–4 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ36.00000°,λ75.00000°. NP2:ϕ_s23.00000°,δ55.00000°,λ101.00000°. $M_0$3.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.1km az=13.4.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=112.0.
JMA Event type fe.
IDC Error ellipse: s-maj=11.7km s-min=9.9km az=108.0.
JMA IV 03 07 59 14.1–.10 39.00N 142.30E 35–2 3.5
¶600576596
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 03 08 11 21.0–2.5 37.04N–.07 141.88E–.10 7–13 3.6b 20 1-57
NIED IV 03 08 11 00 37.00N 141.70E 41 3.7W **¶600576608**
IDC IV 03 08 11 19.7–1.3 37.05N 141.90E 0 3.7,3.6
ISCJB IV 03 08 11 21.0–1.7 37.01N–.06 141.92E–.10 19–10 3.5b,3.6
JMA IV 03 08 11 25.0–.20 37.02N 141.66E 47–3 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ10.00000°,λ57.00000°. NP2:ϕ_s6.00000°,δ81.00000°,λ96.00000°. $M_0$4.20000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=25.7km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=9.9km az=179.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 08 22 51.4–1.8 40.21N–.04 142.54E–.07 13–10 3.7b 33 1-66
JMA IV 03 08 22 54.1–.10 40.15N 142.47E 33–1 3.8 **¶17199633**
IDC IV 03 08 22 58.3–4.0 40.07N 142.41E 77–39 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=25.0km s-min=21.3km az=110.0.
ISC IV 03 08 39 58.5–2.0 37.00N–.04 141.90E–.07 11–11 3.7b 29 1-75
IDC IV 03 08 39 57.0–1.4 37.06N 142.05E 0 4.0L,3.9 **¶17199635**
NIED IV 03 08 40 00 37.00N 141.60E 41 3.8W,3.9
JMA IV 03 08 40 03.2–.20 37.05N 141.65E 44–2 3.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=39.4km s-min=19.7km az=81.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ13.00000°,λ76.00000°. NP2:ϕ_s48.00000°,δ77.00000°,λ93.00000°. $M_0$5.50000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 08 42 03.6–1.6 38.37N–.04 142.09E–.06 15–10 3.9b 49 1-146
NIED IV 03 08 42 00 38.50N 142.10E 29 3.9W **¶16512209**
IDC IV 03 08 42 01.7–.62 38.42N 142.07E 0 4.0,3.9
ISCJB IV 03 08 42 03.0–1.1 38.35N–.03 142.19E–.07 25–7 3.9b,3.9
JMA IV 03 08 42 05.5–.10 38.48N 142.09E 34–2 4.1,3.9
NEIC IV 03 08 42 06.5–.33 38.36N 142.08E 35 4.7b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ27.00000°,λ-32.00000°. NP2:ϕ_s280.00000°,δ76.00000°,λ-114.00000°. $M_0$6.96000×10^{14}
IDC Error ellipse: s-maj=19.8km s-min=13.8km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.7km az=13.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=114.0.
JMA IV 03 08 43 48.0 36.98N 140.68E 7–1 3.0
¶600576624
JMA IV 03 09 07 40.8 36.75N 140.59E 7–1 2.6
¶600576645
ISC IV 03 09 35 52.9–.70 37.21N–.04 141.42E–.07 38–2 3.9b 52 0-147
NIED IV 03 09 35 00 37.20N 141.20E 50 3.9W **¶600576658**
ISCJB IV 03 09 35 51.7–.66 37.18N–.03 141.47E–.06 45–6 3.9b,3.0s
NEIC IV 03 09 35 54.2–1.3 37.19N 141.44E 50–12 4.3b,3.0s
IDC IV 03 09 35 54.3–2.3 37.18N 141.37E 53–22 3.9,3.9L
JMA IV 03 09 35 54.1–.10 37.23N 141.24E 50–1 4.0,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ25.00000°,λ115.00000°. NP2:ϕ_s359.00000°,δ67.00000°,λ78.00000°. $M_0$8.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.7km az=6.3.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.8km az=61.0.

IDC Error ellipse: s-maj=16.8km s-min=11.7km az=69.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 10 17 50.8–2.3 37.84N–.05 141.8E–.10 28–13 3.8b 20 1-70
IDC IV 03 10 17 43.9–2.5 37.95N 142.38E 0 3.8b,3.7 **¶17199643**
JMA IV 03 10 17 53.1–.10 37.85N 141.73E 51–2 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.2km s-min=31.1km az=66.0.
ISC IV 03 10 40 34.9–1.8 39.06N–.04 142.36E–.07 20–8 3.8b 26 1-88
NIED IV 03 10 40 00 39.10N 142.40E 35 3.8W **¶17199647**
IDC IV 03 10 40 31.4–1.1 38.95N 142.34E 0 3.9,3.7b
ISCJB IV 03 10 40 34.1–1.1 39.05N–.04 142.48E–.07 25–6 3.6b,3.0s
JMA IV 03 10 40 35.9–.10 39.10N 142.40E 33–1 4.0,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ22.00000°,λ-142.00000°. NP2:ϕ_s146.00000°,δ77.00000°,λ-72.00000°. $M_0$6.27000×10^{14}
IDC Error ellipse: s-maj=30.0km s-min=27.5km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.9km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 10 47 41.1–1.4 39.67N–.04 142.2E–.10 45–8 3.5b 28 0-60
IDC IV 03 10 47 31.0–2.7 39.95N 143.19E 0 3.6,3.5b **¶17199648**
ISCJB IV 03 10 47 40.7–.93 39.66N–.04 142.15E–.09 51–5 3.3b,3.5b
JMA IV 03 10 47 41.3–.10 39.66N 142.14E 48–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=30.6km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.9km az=3.5.
ISC IV 03 11 39 26.8–.81 36.86N–.05 141.95E–.05 19 3.5b 24 1-90
NIED IV 03 11 39 00 37.00N 142.00E 23 3.7W **¶16705431**
IDC IV 03 11 39 24.4–.85 36.80N 142.38E 0 3.7,3.6
ISCJB IV 03 11 39 25.5–.62 36.92N–.06 142.13E–.05 19 3.5b,3.6
JMA IV 03 11 39 27.2–.20 36.97N 142.02E 31–4 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ23.00000°,λ-142.00000°. NP2:ϕ_s155.00000°,δ76.00000°,λ-71.00000°. $M_0$3.39000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=18.8km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=178.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 11 57 16.2–.54 35.91N–.05 140.99E–.07 31 4.0b,2.9s 40 0-148
NIED IV 03 11 57 00 35.90N 141.10E 8 4.1W,2.9s **¶16499038**
IDC IV 03 11 57 11.7–.75 35.89N 141.05E 0 4.0,3.9
NEIC IV 03 11 57 12.0–2.8 35.90N 141.06E 2–18 4.4b,3.9
ISCJB IV 03 11 57 14.6–.41 35.94N–.03 141.04E–.05 31 4.0b,2.9s
JMA IV 03 11 57 14.2–.10 35.91N 141.05E 30–1 4.1,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ27.00000°,λ-3.00000°. NP2:ϕ_s343.00000°,δ89.00000°,λ-117.00000°. $M_0$1.44000×10^{15}
IDC Error ellipse: s-maj=20.0km s-min=17.0km az=112.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.6km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=176.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 03 12 12 13.7–2.6 38.49N 142.93E 0 3.6,3.5b
¶17199654
IDC Error ellipse: s-maj=66.7km s-min=31.5km az=68.0.
IDC IV 03 12 33 46.1–2.8 39.20N 142.82E 0 3.6,3.5b
¶17199655
IDC Error ellipse: s-maj=69.5km s-min=31.7km az=71.0.
ISC IV 03 12 57 39.3–.58 37.25N–.03 141.46E–.04 45–4 4.8b,3.8s 387 0-157
NIED IV 03 12 57 00 37.30N 141.50E 41 4.7W,3.8s **¶16404937**
IDC IV 03 12 57 33.0–.47 37.26N 141.38E 0 5.1L,4.6
BJI IV 03 12 57 35.1 37.14N 141.60E 39 5.0b,4.9b
MOS IV 03 12 57 36.5–.86 37.25N 141.30E 32 5.1b,4.9b
ISCJB IV 03 12 57 38.8–.37 37.25N–.02 141.38E–.03 52–2 4.8b,3.8s
JMA IV 03 12 57 39.2–.10 37.26N 141.40E 48–1 4.6,3.8s
NEIC IV 03 12 57 41.4–.56 37.28N 141.30E 59–5 4.9b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ23.00000°,λ89.00000°. NP2:ϕ_s23.00000°,δ67.00000°,λ90.00000°. $M_0$1.26000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=12.0km az=122.0.
MOS Error ellipse: s-maj=9.1km s-min=5.0km az=111.1.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=32.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=132.0. Recorded [4 JMA] in Fukushima.
JMA IV 03 13 00 19.4–.10 36.02N 141.13E 41–2 3.1
¶600576783
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 03 14 13 42.0–.10 38.30N 142.15E 37–2 2.4
¶16499044
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 14 14 44.6–2.2 39.00N–.06 142.41E–.10 25–13 4.3b 26 1-63
NIED IV 03 14 14 00 39.00N 142.40E 29 4.0W **¶600576842**
IDC IV 03 14 14 38.5–1.9 39.07N 143.08E 0 4.4,4.4s
ISCJB IV 03 14 14 44.9–1.3 38.99N–.05 142.4E–.10 38–9 4.3b,4.2s
NEIC IV 03 14 14 44.3–.90 39.02N 142.90E 35 4.4b,4.2s
JMA IV 03 14 14 45.1–.10 39.01N 142.38E 34–2 3.7,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ27.00000°,λ-122.00000°. NP2:ϕ_s188.00000°,δ67.00000°,λ-75.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=50.7km s-min=21.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=7.9km az=16.2.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=12.3km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 14 20 55.6–1.2 36.78N–.04 140.53E–.04 5–9 4.5s,3.9b 28 0-91
ISCJB IV 03 14 20 55.5–.71 36.68N–.03 140.71E–.05 12–4 4.4s,3.8b **¶602567202**
IDC IV 03 14 20 55.1–.82 36.82N 140.53E 0 4.4,4.4s
JMA IV 03 14 20 56.5 36.70N 140.64E 6–1 3.7,4.4s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=23.7.
IDC Error ellipse: s-maj=18.5km s-min=14.0km az=166.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s120.00000°,δ69.00000°,λ-126.00000°. NP2:ϕ_s4.00000°,δ41.00000°,λ-33.00000°. Principal axes: T Plg16.0000°,Azm236.0000°; N Plg34.0000°,Azm135.0000°; P Plg52.0000°,Azm347.0000°
JMA IV 03 14 30 53.0–.10 36.33N 140.99E 42–2 2.6
¶600576851
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 14 48 36.3–2.1 39.52N–.05 142.53E–.08 18–11 3.7b 29 1-63
ISCJB IV 03 14 48 34.9–1.7 39.49N–.05 142.6E–.10 22–10 3.5b **¶600576861**
JMA IV 03 14 48 34.9–.10 39.47N 142.62E 27–1 3.8
IDC IV 03 14 48 34.4–.90 39.68N 142.63E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.9km az=15.2.
IDC Error ellipse: s-maj=23.8km s-min=18.4km az=100.0.
ISC IV 03 15 40 46.3–2.2 38.50N–.06 142.0E–.10 25–13 3.6b 19 1-62
IDC IV 03 15 40 42.5–1.4 38.41N 142.01E 0 3.7,3.6 **¶17199663**
ISCJB IV 03 15 40 45.2–1.3 38.46N–.05 142.06E–.08 29–6 3.5b,3.6
JMA IV 03 15 40 46.6–.10 38.50N 142.00E 32–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=51.8km s-min=23.1km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=8.9km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 16 56 27.6–2.0 37.69N–.05 141.81E–.08 10–11 3.7b 24 1-58
JMA IV 03 16 56 28.7–.20 37.73N 141.90E 19–3 3.8 **¶17199672**
IDC IV 03 16 56 29.9–2.4 37.27N 142.09E 0 3.8,3.7b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=61.5km s-min=30.6km az=68.0.
ISC IV 03 17 10 21.7–1.8 38.26N–.07 141.9E–.10 41–16 3.7s,3.6b 30 0-146
IDC IV 03 17 10 15.8–.79 38.20N 141.90E 0 3.9,3.9 **¶600576909**
ISCJB IV 03 17 10 21.5–.90 38.28N–.05 141.83E–.10 52–7 4.0s,3.6b
JMA IV 03 17 10 22.2–.10 38.29N 141.80E 49–1 3.9,3.6b
ISC Event type ke.

IDC Error ellipse: s-maj=26.0km s-min=19.7km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=6.0km az=22.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 17 17 10.7–1.8 34.79N–.06 140.9E–.10 30–10 3.5b 19 0-59
IDC IV 03 17 17 06.0–2.3 34.84N 141.21E 0 3.5,3.5 **¶17199675**
JMA IV 03 17 17 07.1–.30 34.85N 141.21E 39–3 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=63.1km s-min=19.6km az=67.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC IV 03 19 15 19.8–4.0 36.53N 140.36E 0 3.7,3.4
¶602945405
IDC Error ellipse: s-maj=83.5km s-min=34.0km az=35.0.
IDC IV 03 20 28 32.6–25 37.27N 141.29E 0 3.7b,3.6
¶17199697
IDC Error ellipse: s-maj=444.8km s-min=51.3km az=128.0.
ISC IV 03 20 45 17.9–2.1 39.01N–.05 142.34E–.10 23–14 3.6b 22 1-47
IDC IV 03 20 44 56.5–34 35.81N 142.75E 0 3.5,3.5b **¶600576992**
ISCJB IV 03 20 45 17.0–1.3 39.02N–.04 142.43E–.08 24–6 3.5b,3.5b
JMA IV 03 20 45 18.3–.10 39.06N 142.38E 31–1 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=872.1km s-min=34.5km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.0km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 03 21 15 18.5–.10 37.71N 141.74E 34–2 3.9
¶600577014
JMA Event type fe.
IDC IV 03 22 02 43.0–2.2 36.65N 140.43E 0 3.4,3.3
¶17199704
IDC Error ellipse: s-maj=54.6km s-min=26.5km az=64.0.
ISC IV 03 22 06 32.2–1.1 36.9N–.20 141.8E–.10 10 3.5b 10 3-90
ISCJB IV 03 22 06 30.6–.99 36.9N–.20 141.8E–.10 10 3.5b **¶17199705**
IDC IV 03 22 06 30.6–1.1 36.92N 141.87E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=10.9km az=167.2.
IDC Error ellipse: s-maj=27.8km s-min=24.9km az=9.0.
ISC IV 03 22 12 28.7–2.5 36.83N–.08 141.2E–.10 30–11 3.3b 19 0-90
IDC IV 03 22 12 14.9–2.9 36.29N 142.43E 0 3.7,3.5 **¶17199706**
JMA IV 03 22 12 29.3–.10 36.81N 141.11E 48–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=82.9km s-min=25.0km az=1.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 03 22 34 41.9–.97 36.79N–.03 140.57E–.06 13–8 3.6b 21 0-57
IDC IV 03 22 34 39.7–2.0 36.74N 140.75E 0 3.7,3.6 **¶17199711**
ISCJB IV 03 22 34 41.5–.72 36.76N–.03 140.68E–.07 17–6 3.5b,3.6
JMA IV 03 22 34 42.4 36.80N 140.56E 7–1 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=43.1km s-min=28.7km az=48.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.6km az=25.3.
JMA Event type fe.
ISC IV 03 23 04 02.3–1.4 35.93N–.08 140.9E–.10 35 3.3b 12 0-44
ISCJB IV 03 23 04 02.0–1.1 35.95N–.08 140.9E–.10 35 3.2b **¶17199714**
JMA IV 03 23 04 02.3–.10 35.90N 140.87E 39–1 2.8
IDC IV 03 23 04 19.5–4.7 36.46N 139.36E 96–18 3.4,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=8.4km az=145.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=78.1km s-min=62.6km az=97.0.
JMA IV 03 23 32 41.2–.10 37.14N 141.32E 48–1 3.6
¶600577061
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 23 33 02.1–.99 35.68N–.06 140.74E–.09 46–8 3.7b 21 0-79
ISCJB IV 03 23 33 01.3–.78 35.65N–.06 140.7E–.10 57–6 3.7b **¶600577063**
JMA IV 03 23 33 01.5–.20 35.72N 140.70E 47–2 3.3
IDC IV 03 23 33 03.7–2.7 35.59N 140.57E 60–24 3.7,3.5L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=9.3km az=179.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=30.0km s-min=12.9km az=74.0.
ISC IV 04 00 33 32.6–2.0 36.02N–.05 141.35E–.07 1–15 3.7b 18 1-65
IDC IV 04 00 33 32.7–1.4 36.01N 141.37E 0 3.7,3.6b **¶17199721**
ISCJB IV 04 00 33 33.8–1.3 36.02N–.05 141.38E–.09 20–9 3.6b,3.6b
JMA IV 04 00 33 34.8–.10 35.99N 141.30E 29–2 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=35.0km s-min=30.9km az=41.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.9km az=176.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 04 00 39 43.2–.10 37.75N 141.73E 46–2 3.7
¶600577104
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 04 00 56 21.3 36.92N 140.51E 7–1 2.7
¶600577117
ISC IV 04 01 40 03.1–2.3 36.58N–.06 141.32E–.09 8–12 3.5b 20 1-57
IDC IV 04 01 40 02.6–2.4 36.26N 141.29E 0 3.5,3.4 **¶600577136**
ISCJB IV 04 01 40 05.4–1.7 36.61N–.05 141.25E–.10 20–9 3.3b,3.4
JMA IV 04 01 40 06.9–.10 36.62N 141.14E 44–2 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=29.4km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.7km az=27.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 04 02 13 20.8–.10 38.50N 141.99E 32–1 3.9
NIED IV 04 02 13 00 38.50N 142.00E 68 4.5W **¶600577158**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ31.00000°,λ-30.00000°. NP2:ϕ_s156.00000°,δ75.00000°,λ-118.00000°. $M_0$6.60000×10^{15}
ISC IV 04 03 05 58.7–1.7 36.67N–.04 141.12E–.08 24–10 3.8b 26 0-83
NIED IV 04 03 05 00 36.60N 141.10E 35 3.6W **¶600577179**
IDC IV 04 03 05 54.3–1.6 36.73N 141.48E 0 3.8,3.7
ISCJB IV 04 03 05 57.6–1.1 36.63N–.04 141.16E–.08 27–5 3.6b,2.2s
JMA IV 04 03 05 58.6–.10 36.64N 141.09E 36–1 3.7,2.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ65.00000°,λ-166.00000°. NP2:ϕ_s58.00000°,δ77.00000°,λ-26.00000°. $M_0$2.53000×10^{14}
IDC Error ellipse: s-maj=43.2km s-min=23.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.3km az=16.9.
JMA Event type fe.
IDC IV 04 03 23 36.6–2.6 37.36N 141.24E 0 3.5,3.4b
¶17199733
IDC Error ellipse: s-maj=60.8km s-min=30.5km az=62.0.
ISC IV 04 03 28 45.7–.68 38.15N–.04 141.74E–.07 45–5 3.9b,3.3s 52 0-146
NIED IV 04 03 28 00 38.20N 141.70E 68 3.9W,3.3s **¶16506181**
ISCJB IV 04 03 28 45.5–.64 38.17N–.04 141.69E–.07 57–5 3.9b,3.2s
JMA IV 04 03 28 46.2–.10 38.17N 141.68E 52–1 3.7,3.2s
IDC IV 04 03 28 48.2–.81 38.07N 141.61E 70–6 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ27.00000°,λ137.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ70.00000°. $M_0$9.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.0km az=21.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=11.2km az=101.0.
IDC IV 04 03 45 56.0–11 36.45N 141.90E 0 3.7b,3.6
¶17199735
IDC Error ellipse: s-maj=187.0km s-min=76.3km az=141.0.
ISC IV 04 04 30 07.4–1.3 35.28N–.04 141.14E–.06 26–9 4.2b,3.6s 62 0-148
NIED IV 04 04 30 00 35.30N 141.20E 23 4.3W,3.6s **¶16506196**
IDC IV 04 04 30 03.9–.57 35.30N 141.03E 0 4.2,4.1
ISCJB IV 04 04 30 06.5–.73 35.25N–.03 141.19E–.06 34–6 4.2b,3.5s
JMA IV 04 04 30 06.9–.10 35.33N 141.17E 37–2 4.3,3.5s
NEIC IV 04 04 30 06.1–3.1 35.29N 141.11E 15–19 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ41.00000°,λ-175.00000°. NP2:ϕ_s232.00000°,δ86.00000°,λ-49.00000°. $M_0$2.87000×10^{15}

IDC Error ellipse: s-maj=16.0km s-min=13.4km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.9km az=179.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=7.3km az=88.0. Recorded [1 JMA] in Chiba.
ISC IV 04 04 43 46.0–1.1 36.90N–.03 140.58E–.04 6–6 4.3b,3.2s 89 0-147
NIED IV 04 04 43 00 36.90N 140.60E 5 4.1W,3.2s **¶16506183**
IDC IV 04 04 43 45.0–.50 36.90N 140.57E 0 4.4,4.3
ISCJB IV 04 04 43 45.9–.57 36.88N–.02 140.74E–.04 16–4 4.3b,3.3s
NEIC IV 04 04 43 46.6–2.4 36.87N 140.64E 11–15 4.5b,3.3s
JMA IV 04 04 43 46.4 36.90N 140.64E 5–1 4.3,3.3s
MOS IV 04 04 43 47.3–1.3 36.88N 140.76E 28 4.4b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ27.00000°,λ-110.00000°. NP2:ϕ_s220.00000°,δ64.00000°,λ-80.00000°. $M_0$1.48000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=12.6km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.5km az=31.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=107.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ57.00000°,λ-85.00000°. NP2:ϕ_s28.00000°,δ33.00000°,λ-98.00000°. Principal axes: T Plg12.0000°,Azm303.0000°; N Plg4.0000°,Azm34.0000°; P Plg77.0000° ,Azm142.0000°
MOS Error ellipse: s-maj=10.4km s-min=7.5km az=90.0.
JMA IV 04 05 14 35.3–.10 38.59N 142.04E 26–2 3.5
¶600577216
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 04 06 22 06.7 36.83N 140.59E 7–1 2.8
¶600577239
ISC IV 04 07 17 17.2–1.7 35.81N–.09 141.2E–.10 26 10 0-80
IDC IV 04 07 17 11.0–3.0 36.03N 141.76E 0 3.6,3.5b **¶17199740**
ISCJB IV 04 07 17 15.4–1.3 35.8N–.10 141.3E–.10 26 3.9s,3.6b
JMA IV 04 07 17 19.0–.10 35.72N 140.95E 35–1 3.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=82.0km s-min=33.7km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=12.8km az=176.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 04 07 44 00.2–.79 38.24N–.04 142.05E–.06 27–5 4.0b 48 1-146
ISCJB IV 04 07 43 59.8–.80 38.24N–.03 142.13E–.07 37–7 4.1b,3.4s **¶600577272**
JMA IV 04 07 44 00.8–.20 38.33N 142.11E 41–3 4.1,3.4s
NIED IV 04 07 44 00 38.30N 142.10E 35 4.1W,3.4s
NEIC IV 04 07 44 02.8–.91 38.30N 142.16E 46–9 4.7b,3.4s
IDC IV 04 07 44 02.1–.67 38.27N 142.07E 39–6 4.1,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.8km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ29.00000°,λ-24.00000°. NP2:ϕ_s225.00000°,δ79.00000°,λ-117.00000°. $M_0$1.80000×10^{15}
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.7km az=117.0.
IDC Error ellipse: s-maj=17.7km s-min=13.5km az=104.0.
JMA IV 04 07 57 07.2–.10 38.93N 142.56E 27–2 3.6
¶600577282
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 04 08 09 37.5–2.9 36.70N–.08 141.6E–.10 6–14 13 1-57
IDC IV 04 08 09 39.1–2.7 36.14N 141.28E 0 3.5,3.3 **¶17199745**
ISCJB IV 04 08 09 40.1–2.1 36.75N–.07 141.4E–.10 21–10 3.3b,3.2s
JMA IV 04 08 09 41.0–.10 36.75N 141.31E 46–2 3.4,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=53.9km s-min=30.9km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=10.2km az=32.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 04 08 32 57.9–2.1 37.18N–.08 141.63E–.09 32–13 3.5b 19 1-64
NIED IV 04 08 32 00 37.20N 141.70E 29 3.6W **¶17199749**
IDC IV 04 08 32 53.1–1.1 37.18N 141.77E 0 4.1,4.1s
ISCJB IV 04 08 32 55.8–1.7 37.20N–.08 141.77E–.09 30–10 4.1s,3.5b
JMA IV 04 08 32 57.3–.20 37.19N 141.68E 39–3 3.8,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ61.00000°,λ179.00000°. NP2:ϕ_s212.00000°,δ89.00000°,λ29.00000°. $M_0$2.69000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=24.3km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=10.9km az=40.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 04 08 55 49.3–1.8 37.37N–.04 141.39E–.10 28–11 22 0-57
IDC IV 04 08 55 43.9–3.1 37.63N 141.74E 0 3.5,3.4b **¶17199751**
ISCJB IV 04 08 55 47.9–1.1 37.36N–.04 141.49E–.07 21–6 3.4b,3.4b
JMA IV 04 08 55 50.4–.10 37.39N 141.33E 30–1 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=68.4km s-min=40.6km az=55.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.7km az=18.1.
JMA Event type fe.
ISC IV 04 09 29 27.6–1.0 37.23N–.04 141.39E–.05 20–3 3.5b 32 0-64
IDC IV 04 09 29 24.7–1.3 37.24N 141.44E 0 4.2,4.2s **¶600577312**
ISCJB IV 04 09 29 26.3–1.0 37.19N–.03 141.49E–.06 23–6 4.2s,3.5b
JMA IV 04 09 29 29.1–.10 37.22N 141.30E 35–1 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=24.1km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.2km az=18.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 04 10 09 56.5–4.2 35.32N 141.70E 0 3.7,3.6b
¶17199757
IDC Error ellipse: s-maj=129.6km s-min=26.5km az=57.0.
JMA IV 04 10 12 31.4 36.94N 140.52E 7–1 2.9
¶600577325
ISC IV 04 10 35 46.3–1.2 38.55N–.06 142.21E–.09 24 3.6b 22 1-73
ISCJB IV 04 10 35 42.6–.95 38.37N–.07 142.34E–.07 24 3.7b **¶17199760**
JMA IV 04 10 35 46.9–.10 38.48N 142.12E 38–2 3.7
IDC IV 04 10 35 48.3–4.4 38.50N 142.43E 62–37 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=7.7km az=160.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.5km s-min=25.3km az=93.0.
ISC IV 04 10 37 25.5–.55 38.15N–.04 141.71E–.06 47–3 4.1b 62 0-146
NIED IV 04 10 37 00 38.20N 141.70E 50 4.1W **¶16506188**
ISCJB IV 04 10 37 25.2–.64 38.16N–.04 141.70E–.07 59–5 4.0b,2.9s
JMA IV 04 10 37 25.8–.10 38.16N 141.69E 50–1 4.2,2.9s
IDC IV 04 10 37 28.2–.77 38.14N 141.62E 72–5 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ26.00000°,λ99.00000°. NP2:ϕ_s22.00000°,δ65.00000°,λ86.00000°. $M_0$1.36000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=17.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=109.0.
ISC IV 04 11 46 24.4–.78 36.09N–.04 140.02E–.05 52–6 4.1s,4.1b 59 0-117
NIED IV 04 11 46 00 36.20N 140.00E 41 4.0W,4.1b **¶16408811**
ISCJB IV 04 11 46 23.5–.39 36.10N–.03 140.05E–.05 60–3 4.1b,4.1b
NEIC IV 04 11 46 23.8–.84 36.06N 139.98E 48–8 4.3b,4.1b
JMA IV 04 11 46 24.9–.10 36.14N 140.01E 49–1 4.1,4.1b
IDC IV 04 11 46 24.5–1.8 36.08N 139.94E 52–16 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ25.00000°,λ-177.00000°. NP2:ϕ_s206.00000°,δ89.00000°,λ-65.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.9km az=5.0.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.4km az=60.0. Recorded [3 JMA] in Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ78.00000°,λ80.00000°. NP2: ϕ_s243.00000°,δ15.00000°,λ128.00000°. Principal axes: T Plg56.0000°,Azm282.0000° ; N Plg9.0000°,Azm26.0000°; P Plg32.0000°,Azm122.0000°
IDC Error ellipse: s-maj=17.6km s-min=9.7km az=74.0.
ISC IV 04 12 56 59.6–1.5 37.07N–.04 141.3E–.10 42–11 3.4b 22 0-61
IDC IV 04 12 56 52.5–2.2 37.22N 141.62E 0 3.6,3.5 **¶17199772**
ISCJB IV 04 12 56 58.8–.96 37.06N–.04 141.3E–.10 51–6 3.4b,3.5
JMA IV 04 12 57 00.6–.10 37.11N 141.13E 50–1 3.6,3.5
NIED IV 04 12 57 00 37.10N 141.10E 32 3.5W,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=25.7km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=6.9km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ40.00000°,λ167.00000°. NP2:ϕ_s334.00000°,δ82.00000°,λ51.00000°. $M_0$1.99000×10^{14}
JMA IV 04 13 04 46.6–.10 39.78N 142.11E 26–2 0.8
¶602945408
IDC IV 04 13 05 02.5–2.3 39.17N 142.99E 0 3.6,3.6b
¶17199773
IDC Error ellipse: s-maj=65.8km s-min=26.2km az=67.0.
ISC IV 04 13 11 29.3–.60 39.25N–.04 142.81E–.04 27–3 4.8b,4.5s 351 1-145
NIED IV 04 13 11 00 39.10N 143.00E 20 4.8W,4.5s **¶16455842**
JMA IV 04 13 11 27.0–.10 39.13N 142.96E 21–2 4.8,4.5s
ISCJB IV 04 13 11 28.3–.82 39.21N–.03 142.87E–.03 31–5 4.8b,4.5s
MOS IV 04 13 11 28.5–.92 39.28N 142.85E 30 5.1b,4.2s
BJI IV 04 13 11 29.9 39.20N 142.50E 35 5.0b,4.9b
NEIC IV 04 13 11 31.2–.31 39.24N 142.75E 40–2 4.9b,4.9b
IDC IV 04 13 11 31.6–1.8 39.15N 142.86E 45–16 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ15.00000°,λ56.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ99.00000°. $M_0$2.02000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=143.1.
MOS Error ellipse: s-maj=7.6km s-min=4.6km az=101.5.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=144.0.
IDC Error ellipse: s-maj=12.9km s-min=10.9km az=123.0.
ISC IV 04 13 17 46.0–1.1 36.80N–.04 140.94E–.07 26–7 3.9b 36 0-147
NIED IV 04 13 17 00 36.80N 141.10E 11 3.7W **¶17199774**
ISCJB IV 04 13 17 43.8–.98 36.74N–.04 141.12E–.07 24–6 3.8b
JMA IV 04 13 17 44.6 36.75N 141.06E 28–1 3.9
IDC IV 04 13 17 48.5–2.0 36.74N 140.97E 47–21 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ45.00000°,λ-106.00000°. NP2:ϕ_s19.00000°,δ47.00000°,λ-75.00000°. $M_0$4.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.3km az=22.1.
JMA Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=12.4km az=88.0.
JMA IV 04 13 42 44.1–.30 38.12N 142.57E 2–4 3.9
¶600577410
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 04 14 38 21.5–.86 38.34N–.04 142.27E–.06 25–4 3.6b 36 1-62
ISCJB IV 04 14 38 21.8–1.0 38.36N–.04 142.31E–.09 44–10 3.7b,3.0s **¶17199780**
JMA IV 04 14 38 22.1–.10 38.39N 142.29E 40–2 4.0,3.0s
IDC IV 04 14 38 23.1–.96 38.33N 142.23E 38–7 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.6km az=18.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.2km s-min=16.2km az=108.0.
ISC IV 04 15 25 16.6–1.5 35.90N–.06 141.0E–.10 31 3.5b 12 0-60
IDC IV 04 15 25 11.6–3.3 35.99N 141.15E 0 3.4,3.3b **¶17199783**
ISCJB IV 04 15 25 15.0–1.2 35.97N–.07 141.1E–.10 31 3.4b,3.3b
JMA IV 04 15 25 17.2–.10 35.87N 140.87E 39–1 2.6,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=92.4km s-min=26.8km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.1km az=147.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 04 15 34 48.3–.10 36.36N 141.01E 43–1 2.3
¶602945409
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 04 15 35 05.8–3.7 35.88N 141.63E 0 3.5,3.3
¶17199784
IDC Error ellipse: s-maj=107.7km s-min=27.2km az=54.0.
JMA IV 04 15 36 24.5 36.67N 140.61E 4–1 2.5
¶600577466
JMA Event type fe.
ISC IV 04 15 47 05.5–.65 37.58N–.04 141.59E–.06 51–6 4.2b 58 1-84
NIED IV 04 15 47 00 37.60N 141.50E 50 4.0W **¶16506191**
ISCJB IV 04 15 47 03.9–.65 37.55N–.03 141.60E–.07 55–5 4.2b,3.2s
JMA IV 04 15 47 05.6–.10 37.60N 141.49E 47–2 4.0,3.2s
NEIC IV 04 15 47 06.3–.54 37.53N 141.60E 61–5 4.6b,3.2s
IDC IV 04 15 47 06.0–.62 37.57N 141.53E 55–6 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ19.00000°,λ98.00000°. NP2:ϕ_s19.00000°,δ71.00000°,λ87.00000°. $M_0$1.31000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=5.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=107.0.
IDC Error ellipse: s-maj=15.8km s-min=9.6km az=106.0.
ISC IV 04 16 15 19.5–2.0 38.16N–.04 141.8E–.10 31–11 3.6b 22 0-62
IDC IV 04 16 15 12.1–2.8 38.41N 142.38E 0 3.4b,3.3 **¶17199786**
JMA IV 04 16 15 21.1–.10 38.18N 141.67E 51–1 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=67.4km s-min=34.3km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 04 16 52 34.0–3.7 38.84N–.05 142.84E–.07 11–23 4.0b 35 1-74
NIED IV 04 16 52 00 38.80N 142.90E 5 4.0W **¶17199789**
JMA IV 04 16 52 34.1–.20 38.81N 142.88E 17–3 3.9
IDC IV 04 16 52 40.3–3.1 38.77N 142.86E 66–28 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ28.00000°,λ-74.00000°. NP2:ϕ_s297.00000°,δ63.00000°,λ-98.00000°. $M_0$1.09000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.4km s-min=14.9km az=95.0.
ISC IV 04 17 01 46.4–1.0 36.83N–.04 140.63E–.06 29–8 3.4b 16 0-60
JMA IV 04 17 01 48.0 36.85N 140.55E 9–1 2.8 **¶600577523**
IDC IV 04 17 01 49.1–6.9 36.08N 140.60E 94–47 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=82.7km s-min=27.9km az=60.0.
ISC IV 04 17 27 04.9–2.5 39.21N–.07 142.4E–.10 33–13 15 1-63
NIED IV 04 17 27 00 39.20N 142.40E 53 4.4W **¶600577541**
ISCJB IV 04 17 27 03.5–1.5 39.16N–.06 142.52E–.09 31–7 3.5b
JMA IV 04 17 27 05.1–.10 39.21N 142.45E 32–1 3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ32.00000°,λ-26.00000°. NP2:ϕ_s99.00000°,δ76.00000°,λ-120.00000°. $M_0$4.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=9.6km az=177.4.
JMA Event type fe.
ISC IV 04 17 27 39.4–1.3 36.72N–.06 140.59E–.09 10 8 0-2
ISCJB IV 04 17 27 39.1–1.0 36.72N–.06 140.62E–.09 10 **¶17199792**
JMA IV 04 17 27 39.6 36.73N 140.59E 6–1 2.2
IDC IV 04 17 27 39.6–4.8 36.65N 140.20E 176–42 3.4,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.9km az=34.0.
JMA Event type fe.
IDC Error ellipse: s-maj=86.9km s-min=33.8km az=90.0.
JMA IV 04 17 45 03.4 36.82N 140.53E 5–1 3.4
¶16455843
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s206.00000°,δ75.00000°,λ-78.00000°. NP2:ϕ_s347.00000°,δ19.00000°,λ-127.00000°. Principal axes: T Plg29.0000°,Azm287.0000°; N Plg11.0000°,Azm23.0000°; P Plg58.0000° ,Azm132.0000°
ISC IV 04 17 45 10.6–.50 36.09N–.05 141.52E–.07 26 4.1b 72 1-147
NIED IV 04 17 45 00 36.30N 141.20E 32 4.0W **¶600577549**
MOS IV 04 17 45 08.6–1.2 36.04N 141.56E 29 4.5b
ISCJB IV 04 17 45 08.8–.40 36.15N–.04 141.57E–.06 26 4.0b,3.8s
JMA IV 04 17 45 13.2–.20 36.25N 141.20E 49 3.8,3.8s
NEIC IV 04 17 45 14.2–1.0 36.01N 141.31E 55–9 4.5b,3.8s
IDC IV 04 17 45 14.4–2.2 35.99N 141.28E 55–20 4.3L,4.0
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ48.00000°,λ49.00000°. NP2:ϕ_s59.00000°,δ56.00000°,λ126.00000°. $M_0$1.10000×10^{15}
MOS Error ellipse: s-maj=10.8km s-min=7.4km az=117.8.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=30.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.6km az=60.0.
IDC Error ellipse: s-maj=15.1km s-min=14.8km az=23.0.

ISC	**IV**	**04 18 33 57.6–2.4**	**36.68N–.06**	**141.87E–.09**	**12–13**	**3.6b**	**20**	**1-60**
IDC	IV	04 18 33 54.3–2.7	36.70N	142.20E	0	3.8,3.7L		**¶17199801**
JMA	IV	04 18 34 00.2–.20	36.63N	141.80E	37–3	3.4,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=75.2km s-min=26.5km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**04 18 46 36.5–1.5**	**35.96N–.06**	**141.1E–.10**	**21–3**	**4.1s,3.6b**	**13**	**0-80**
NIED	IV	04 18 46 00	36.00N	141.20E	11	3.5W,3.6b		**¶17199803**
ISCJB	IV	04 18 46 32.7–1.8	35.97N–.07	141.35E–.09	9–10	4.0s,3.6b		
JMA	IV	04 18 46 35.5–.10	35.96N	141.16E	25–2	3.9,3.6b		
IDC	IV	04 18 46 36.7–3.7	35.43N	140.53E	0	3.7,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ55.00000°,λ137.00000°. NP2:ϕ_s267.00000°,δ56.00000°,λ44.00000°. $M_0$2.22000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=10.1km az=135.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=130.4km s-min=24.3km az=61.0.

ISC	**IV**	**04 19 14 34.7–2.2**	**38.76N–.06**	**142.0E–.10**	**31–14**	**3.9b**	**25**	**0-70**
NIED	IV	04 19 14 00	38.80N	142.00E	38	3.7W		**¶16408814**
ISCJB	IV	04 19 14 34.6–1.1	38.77N–.05	142.0E–.10	48–8	3.8b		
JMA	IV	04 19 14 35.1–.10	38.81N	142.00E	41–1	3.8		
IDC	IV	04 19 14 38.8–3.3	38.70N	141.91E	70–29	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ24.00000°,λ-47.00000°. NP2:ϕ_s233.00000°,δ73.00000°,λ-107.00000°. $M_0$3.48000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=7.7km az=4.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.7km s-min=17.0km az=86.0.

ISC	**IV**	**04 19 30 25.4–.65**	**35.74N–.03**	**140.07E–.04**	**71–6**	**4.2b**	**77**	**0-117**
NIED	IV	04 19 30 00	35.80N	140.20E	62	4.3W		**¶16455845**
NEIC	IV	04 19 30 23.9–.77	35.64N	140.10E	61–6	4.4b		
ISCJB	IV	04 19 30 24.2–.32	35.71N–.03	140.08E–.05	77–2	4.0b		
JMA	IV	04 19 30 24.7–.20	35.81N	140.12E	67–2	3.9		
IDC	IV	04 19 30 25.6–1.2	35.64N	140.02E	73–12	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ27.00000°,λ85.00000°. NP2:ϕ_s4.00000°,δ63.00000°,λ92.00000°. $M_0$3.24000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=5.9km az=82.0. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama and Tokyo.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=161.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ68.00000°,λ87.00000°. NP2: ϕ_s190.00000°,δ22.00000°,λ98.00000°. Principal axes: T Plg67.0000°,Azm266.0000° ; N Plg3.0000°,Azm3.0000°; P Plg23.0000°,Azm94.0000°
IDC Error ellipse: s-maj=14.9km s-min=8.5km az=79.0.

ISC	**IV**	**04 19 33 38.9–1.1**	**35.67N–.05**	**140.16E–.07**	**70–8**	**3.4b**	**23**	**0-59**
IDC	IV	04 19 33 26.9–2.5	36.03N	141.14E	0	3.9L,3.7		**¶17199805**
ISCJB	IV	04 19 33 37.7–.75	35.68N–.05	140.15E–.08	76–5	3.4b,3.7		
JMA	IV	04 19 33 37.9–.20	35.73N	140.22E	65–2	2.9,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=62.8km s-min=23.2km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.4km az=152.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**04 19 34 13.5–1.5**	**37.77N–.05**	**141.7E–.10**	**55–12**	**3.9b**	**29**	**1-74**
NIED	IV	04 19 34 00	37.80N	141.60E	56	4.0W		**¶17199806**
IDC	IV	04 19 34 03.9–1.6	37.89N	142.52E	0	3.9,3.9b		
ISCJB	IV	04 19 34 12.5–.91	37.77N–.04	141.7E–.10	63–7	3.9b,3.9b		
JMA	IV	04 19 34 13.5	37.79N	141.62E	54–1	3.9,3.9b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ37.00000°,λ84.00000°. NP2:ϕ_s5.00000°,δ54.00000°,λ94.00000°. $M_0$1.17000×10^{15}
IDC Error ellipse: s-maj=43.2km s-min=24.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=5.8km az=12.9.
JMA Event type fe.

ISC	**IV**	**04 19 50 01.8–.93**	**36.71N–.03**	**140.64E–.06**	**11–6**	**3.8b**	**38**	**0-91**
ISCJB	IV	04 19 50 00.9–.72	36.66N–.03	140.76E–.06	15–5	3.8b		**¶16577660**
NIED	IV	04 19 50 00	36.70N	140.60E	5	3.8W		
NEIC	IV	04 19 50 01.2–5.2	36.71N	140.66E	5–33	4.4b		
JMA	IV	04 19 50 02.3	36.72N	140.63E	4–1	3.8		
IDC	IV	04 19 50 05.2–5.5	36.67N	140.68E	33–44	4.2L,3.8		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.4km az=20.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ29.00000°,λ-77.00000°. NP2:ϕ_s144.00000°,δ62.00000°,λ-97.00000°. $M_0$5.45000×10^{14}
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.6km az=66.0.
JMA Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=17.0km az=96.0.

JMA	**IV**	**04 19 52 21.9**	**36.71N**	**140.63E**	**6–1**	**2.5**		
								¶16506193

JMA Event type fe.

ISC	**IV**	**04 19 53 14.2–.55**	**35.90N–.04**	**140.93E–.07**	**31**	**4.0b,3.4s**	**48**	**0-148**
NIED	IV	04 19 53 00	35.90N	140.90E	50	4.1W,3.4s		**¶600577611**
IDC	IV	04 19 53 09.3–.64	35.84N	140.91E	0	4.1,4.0		
ISCJB	IV	04 19 53 12.2–.43	35.88N–.04	141.00E–.06	31	4.0b,3.1s		
JMA	IV	04 19 53 15.0–.10	35.90N	140.86E	39–1	3.7,3.1s		
NEIC	IV	04 19 53 16.8–.99	35.86N	140.83E	54–8	4.3b,3.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ17.00000°,λ92.00000°. NP2:ϕ_s339.00000°,δ73.00000°,λ89.00000°. $M_0$1.41000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=15.1km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=156.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.6km az=82.0.

ISC	**IV**	**04 20 43 56.3–.72**	**36.29N–.04**	**140.98E–.05**	**25–4**	**4.5b,3.6s**	**140**	**0-147**
NIED	IV	04 20 43 00	36.30N	140.90E	35	4.4W,3.6s		**¶16408816**
IDC	IV	04 20 43 52.7–.51	36.29N	140.91E	0	4.4,4.3		
MOS	IV	04 20 43 55.2–1.1	36.32N	141.03E	30	4.8b,4.3		
ISCJB	IV	04 20 43 55.2–.73	36.29N–.03	141.04E–.04	31–4	4.4b,3.7s		
NEIC	IV	04 20 43 56.9–1.9	36.28N	140.90E	28–13	4.6b,3.7s		
BJI	IV	04 20 43 56.3	36.09N	140.83E	40	4.8b,4.7b		
JMA	IV	04 20 43 57.0–.10	36.30N	140.92E	41–1	4.3,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ7.00000°,λ46.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ95.00000°. $M_0$4.70000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=11.6km az=107.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=108.9.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=29.7.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=6.0km az=81.0. Recorded [4 JMA] in Ibaraki.
JMA Event type fe.

ISC	**IV**	**04 21 22 01.7–1.0**	**36.94N–.04**	**140.56E–.06**	**10**		**13**	**0-57**
IDC	IV	04 21 21 59.6–1.9	36.82N	140.60E	0	3.6,3.4		**¶17199812**
ISCJB	IV	04 21 22 01.8–.80	36.94N–.04	140.58E–.07	10	3.1b,3.4		
JMA	IV	04 21 22 02.1	36.94N	140.54E	6–1	3.2,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=19.8km az=11.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.0km az=32.3.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s215.00000° ,δ55.00000°,λ-101.00000°. NP2:ϕ_s54.00000°,δ37.00000°,λ-75.00000°. Principal axes: T Plg9.0000°,Azm313.0000°; N Plg9.0000°,Azm222.0000°; P Plg77.0000°,Azm88.0000°

ISC	**IV**	**04 21 36 59.5–1.1**	**36.77N–.04**	**140.61E–.04**	**8–7**	**4.2b**	**56**	**0-91**
IDC	IV	04 21 36 58.1–.77	36.77N	140.67E	0	4.0,3.8		**¶16577662**
ISCJB	IV	04 21 36 59.3–.61	36.69N–.03	140.74E–.05	20–3	4.1b,2.5s		
NEIC	IV	04 21 36 59.6–3.9	36.82N	140.69E	9–24	4.7b,2.5s		
NIED	IV	04 21 37 00	36.70N	140.60E	5	3.8W,2.5s		
JMA	IV	04 21 37 00.5	36.72N	140.63E	5–1	3.8,2.5s		

ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=14.0km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.0km az=34.3.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.5km az=87.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ26.00000°,λ-74.00000°. NP2:ϕ_s145.00000°,δ66.00000°,λ-97.00000°. $M_0$5.85000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s133.00000°,δ55.00000°,λ-100.00000°. NP2:ϕ_s330.00000°,δ36.00000°,λ-75.00000°. Principal axes: T Plg10.0000°,Azm230.0000°; N Plg9.0000°,Azm138.0000°; P Plg77.0000° ,Azm8.0000°

ISC	**IV**	**04 21 52 56.3–.56**	**38.27N–.04**	**141.91E–.05**	**51–5**	**4.3b,3.4s**	**114**	**0-146**
NIED	IV	04 21 52 00	38.30N	141.90E	47	4.2W,3.4s		**¶16506194**
BJI	IV	04 21 52 44.2	37.64N	142.55E	20	4.8b,4.5s		
ISCJB	IV	04 21 52 54.5–.58	38.25N–.03	141.94E–.06	51–4	4.3b,3.3s		
NEIC	IV	04 21 52 55.9–.67	38.25N	141.87E	48–6	4.7b,3.3s		
JMA	IV	04 21 52 55.9–.10	38.31N	141.86E	49–1	4.1,3.3s		
IDC	IV	04 21 52 56.6–.47	38.29N	141.85E	53–4	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ22.00000°,λ98.00000°. NP2:ϕ_s13.00000°,δ68.00000°,λ87.00000°. $M_0$2.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.3km az=21.3.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=117.0.
JMA Event type se. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=9.0km az=108.0.

ISC	**IV**	**04 22 13 33.8–1.2**	**37.17N–.05**	**141.69E–.08**	**35**	**3.6b**	**24**	**1-57**
NIED	IV	04 22 13 00	37.20N	141.60E	20	3.6W		**¶17199813**
IDC	IV	04 22 13 27.7–2.2	37.22N	141.99E	0	3.8,3.7		
ISCJB	IV	04 22 13 32.5–.86	37.12N–.04	141.70E–.07	35	3.6b,3.2s		
JMA	IV	04 22 13 33.3–.20	37.15N	141.62E	45–2	3.5,3.2s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ21.00000°,λ-139.00000°. NP2:ϕ_s31.00000°,δ76.00000°,λ-74.00000°. $M_0$3.15000×10^{14}
IDC Error ellipse: s-maj=42.8km s-min=27.2km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.7km az=177.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**04 23 08 16.2–2.1**	**35.46N–.05**	**141.77E–.08**	**23–14**	**3.7b**	**33**	**1-91**
NIED	IV	04 23 08 00	35.50N	141.90E	5	4.0W		**¶17199817**
IDC	IV	04 23 08 12.5–.75	35.43N	141.77E	0	3.9,3.7		
JMA	IV	04 23 08 15.6–.20	35.49N	141.85E	51–3	3.6,3.7		
ISCJB	IV	04 23 08 16.7–1.1	35.47N–.04	141.77E–.09	41–10	3.7b,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ8.00000°,λ-45.00000°. NP2:ϕ_s268.00000°,δ84.00000°,λ-96.00000°. $M_0$1.29000×10^{15}
ISCJB Event type ke.

ISC	**IV**	**04 23 22 59.3–1.8**	**36.79N–.07**	**141.2E–.10**	**35**		**14**	**0-57**
IDC	IV	04 23 22 40.2–2.9	38.66N	141.92E	0	3.5,3.4L		**¶17199819**
ISCJB	IV	04 23 22 58.8–1.4	36.77N–.06	141.3E–.10	35	3.3b,3.4L		
JMA	IV	04 23 23 01.1–.10	36.84N	141.04E	50–1	2.9,3.4L		

ISC Event type ke.
IDC Error ellipse: s-maj=69.3km s-min=36.4km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=8.2km az=7.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**05 00 07 20.2–1.3**	**36.22N–.10**	**142.0E–.10**	**23**	**3.5b**	**12**	**1-64**
IDC	IV	05 00 07 16.9–1.5	36.22N	142.01E	0	3.6,3.5L		**¶17199823**
ISCJB	IV	05 00 07 18.1–1.1	36.21N–.10	142.04E–.09	23	3.5b,3.5L		
JMA	IV	05 00 07 19.9–.20	36.21N	141.87E	66–4	3.2,3.5L		

ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=32.7km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=9.4km az=153.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**IV**	**05 00 36 52.7–2.2**	**37.74N–.05**	**141.92E–.10**	**12–12**	**3.4b**	**19**	**1-89**
NIED	IV	05 00 36 00	37.70N	142.00E	29	3.5W		**¶17199826**
IDC	IV	05 00 36 51.1–1.1	37.75N	142.05E	0	3.7,3.5		
JMA	IV	05 00 36 53.8–.20	37.75N	141.95E	30–4	3.9,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ31.00000°,λ-105.00000°. NP2:ϕ_s186.00000°,δ60.00000°,λ-81.00000°. $M_0$1.91000×10^{14}
IDC Error ellipse: s-maj=37.0km s-min=26.1km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**05 01 20 20.3–2.0**	**39.05N–.06**	**142.4E–.20**	**20–10**		**15**	**1-59**
IDC	IV	05 01 20 14.5–3.0	39.30N	143.16E	0	3.5,3.3		**¶600577775**
ISCJB	IV	05 01 20 20.9–2.0	39.04N–.05	142.4E–.10	28–10	3.3b,3.3		
JMA	IV	05 01 20 22.7–.10	39.10N	142.34E	32–1	3.3,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=71.3km s-min=36.9km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=7.9km az=2.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**05 01 29 11.2–.52**	**39.68N–.04**	**142.11E–.05**	**49–3**	**4.7b,4.2s**	**288**	**0-149**
NIED	IV	05 01 29 00	39.70N	142.00E	50	4.8W,4.2s		**¶16408834**
ISCJB	IV	05 01 29 10.6–.36	39.67N–.03	142.08E–.04	56–2	4.6b,4.2s		
JMA	IV	05 01 29 10.8	39.67N	142.14E	48–1	4.7,4.2s		
MOS	IV	05 01 29 11.8–.95	39.86N	141.77E	54	4.9b,4.3s		
IDC	IV	05 01 29 13.7–1.9	39.63N	142.04E	71–17	4.4,4.2		
NEIC	IV	05 01 29 14.0–.67	39.71N	142.04E	74–5	4.8b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ20.00000°,λ57.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ101.00000°. $M_0$1.71000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.5km az=32.0.
JMA Event type fe.
MOS Error ellipse: s-maj=8.2km s-min=5.1km az=108.0.
IDC Error ellipse: s-maj=13.9km s-min=10.5km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.4km az=128.0. Recorded [3 JMA] in Iwate.

ISC	**IV**	**05 01 55 09.9–1.5**	**36.20N–.05**	**141.91E–.09**	**10**	**3.6b**	**23**	**1-45**
ISCJB	IV	05 01 55 08.6–1.0	36.18N–.04	141.94E–.08	10	3.5b		**¶17199832**
JMA	IV	05 01 55 09.6–.20	36.19N	141.99E	61	3.3		
IDC	IV	05 01 55 12.6–11	36.69N	141.72E	0	3.7,3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.9km az=176.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=225.2km s-min=46.1km az=153.0.

ISC	**IV**	**05 02 38 17.7–1.6**	**36.41N–.09**	**140.69E–.09**	**52–8**	**3.3b**	**22**	**0-44**
ISCJB	IV	05 02 38 17.3–1.1	36.42N–.07	140.67E–.07	57–5	3.4b		**¶17199835**
JMA	IV	05 02 38 18.3–.10	36.43N	140.60E	53–1	3.1		
IDC	IV	05 02 38 18.7–7.2	36.30N	140.67E	67–57	3.6,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=7.2km az=140.9.
JMA Event type fe.
IDC Error ellipse: s-maj=125.6km s-min=53.6km az=10.0.

ISC	**IV**	**05 02 57 14.0–1.1**	**38.21N–.05**	**141.75E–.09**	**54–9**	**4.0b,3.4s**	**45**	**0-146**
NIED	IV	05 02 57 00	38.20N	141.70E	59	4.3W,3.4s		**¶16506203**
ISCJB	IV	05 02 57 13.5–.70	38.19N–.04	141.73E–.08	64–5	3.9b,3.4s		
JMA	IV	05 02 57 14.3–.10	38.19N	141.70E	58–1	4.1,3.4s		
IDC	IV	05 02 57 17.9–2.4	38.17N	141.60E	90–21	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ46.00000°,λ48.00000°. NP2:ϕ_s39.00000°,δ57.00000°,λ125.00000°. $M_0$2.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.8km az=18.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.2km s-min=13.5km az=110.0.

JMA	**IV**	**05 03 05 27.5–.10**	**36.72N**	**141.09E**	**45–1**	**3.2**		
								¶600577833

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**05 03 32 48.0–2.1**	**37.66N–.05**	**141.92E–.08**	**18–11**	**3.5b**	**24**	**1-63**
ISCJB	IV	05 03 32 47.2–1.9	37.70N–.05	141.99E–.08	4–15	3.5b		**¶17199841**
JMA	IV	05 03 32 48.1–.20	37.66N	142.01E	23–3	3.3		
IDC	IV	05 03 32 49.5–1.2	36.88N	142.79E	0	3.6,3.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.3km az=25.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=25.2km az=102.0.

JMA IV 05 03 44 36.4–.10 38.29N 142.36E 30–3 2.5
¶600577864
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 03 46 47.0–1.1 36.31N–.06 141.0E–.10 26 3.4b 9 0-91
JMA IV 05 03 46 38.7–.30 36.19N 141.88E 73–5 2.8 **¶17199843**
IDC IV 05 03 46 53.1–5.0 36.32N 140.84E 74–43 3.3,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=51.2km s-min=31.6km az=76.0.
ISC IV 05 03 47 57.1–1.0 36.22N–.06 141.16E–.09 31 3.4b 11 1-91
JMA IV 05 03 47 48.2–.30 36.22N 141.89E 59 3.1 **¶17199844**
ISCJB IV 05 03 47 54.8–1.1 36.19N–.07 141.3E–.10 31 3.4b
IDC IV 05 03 48 03.2–4.0 36.22N 140.68E 85–37 3.2,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=9.6km az=172.6.
IDC Error ellipse: s-maj=40.1km s-min=26.8km az=99.0.
JMA IV 05 04 05 51.4–.20 38.34N 142.26E 37–3 3.7
¶600577878
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 05 04 25 27.7–.56 38.86N–.04 142.64E–.04 41–4 4.7b,3.8s 300 1-155
NIED IV 05 04 25 00 38.90N 142.60E 47 4.7W,3.8s **¶16409321**
BJI IV 05 04 25 25.2 38.74N 142.72E 40 4.9b,4.6b
MOS IV 05 04 25 27.7–.83 39.09N 142.44E 40 4.9b,4.6b
JMA IV 05 04 25 27.7–.10 38.90N 142.55E 42–2 4.6,4.6b
ISCJB IV 05 04 25 28.3–.45 38.93N–.03 142.43E–.04 51–3 4.6b,3.8s
NEIC IV 05 04 25 29.8–.55 38.89N 142.40E 52–5 4.7b,3.8s
IDC IV 05 04 25 31.9–2.4 38.86N 142.42E 75–22 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ45.00000°,λ106.00000°. NP2:ϕ_s248.00000°,δ47.00000°,λ75.00000°. $M_0$1.19000×10^{16}
MOS Error ellipse: s-maj=8.2km s-min=5.0km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=137.7.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.5km az=142.0. Recorded [3 JMA] in Miyagi.
IDC Error ellipse: s-maj=13.5km s-min=10.6km az=121.0.
JMA IV 05 04 32 11.9 36.67N 140.56E 5–1 2.8
¶602567223
ISC IV 05 04 32 28.9–.80 36.13N–.05 140.03E–.04 49–6 3.9b 47 0-117
NIED IV 05 04 32 00 36.20N 140.00E 44 4.0W **¶602567231**
ISCJB IV 05 04 32 28.4–.45 36.14N–.04 140.04E–.05 59–3 3.9b
JMA IV 05 04 32 29.3–.10 36.13N 140.03E 49–1 3.8
NEIC IV 05 04 32 30.3–2.2 36.17N 139.88E 58–13 4.1b
IDC IV 05 04 32 31.1–1.9 36.12N 139.92E 70–19 3.9,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ77.00000°,λ-177.00000°. NP2:ϕ_s211.00000°,δ87.00000°,λ-13.00000°. $M_0$1.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.8km az=138.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s42.00000°,δ75.00000°,λ89.00000°. NP2: ϕ_s226.00000°,δ15.00000°,λ93.00000°. Principal axes: T Plg60.0000°,Azm311.0000° ; N Plg1.0000°,Azm43.0000°; P Plg30.0000°,Azm133.0000°
NEIC Event type fe. Error ellipse: s-maj=28.6km s-min=11.1km az=165.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=29.0km s-min=19.2km az=19.0.
ISC IV 05 06 34 12.3–.74 37.02N–.07 141.10E–.09 35 3.7b 23 0-90
NIED IV 05 06 34 00 37.00N 141.20E 23 3.8W **¶17199859**
ISCJB IV 05 06 34 10.7–.55 37.00N–.06 141.14E–.07 35 3.6b
JMA IV 05 06 34 10.1–.10 37.00N 141.17E 32–1 4.0
IDC IV 05 06 34 14.5–3.1 37.01N 141.07E 52–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ64.00000°,λ-23.00000°. NP2:ϕ_s199.00000°,δ69.00000°,λ-152.00000°. $M_0$5.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.0km az=146.1.
JMA Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=16.9km az=113.0.
ISC IV 05 07 19 48.2–1.9 37.46N–.05 141.61E–.09 11–10 3.8b 19 1-74
IDC IV 05 07 19 44.8–1.7 37.60N 141.70E 0 3.7b,3.7 **¶17199864**
JMA IV 05 07 19 52.3–.10 37.50N 141.37E 49–1 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=47.2km s-min=26.8km az=77.0.
ISC IV 05 07 32 12.4–.79 35.45N–.07 141.79E–.08 22 3.8b 16 1-76
IDC IV 05 07 32 08.9–.84 35.43N 141.81E 0 3.7,3.5 **¶17199868**
ISCJB IV 05 07 32 10.5–.64 35.45N–.06 141.93E–.07 22 3.5b,3.5
JMA IV 05 07 32 10.1–.20 35.53N 141.98E 45 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.5km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.0km az=145.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 05 08 38 52.5–.10 39.25N 142.59E 25–1 2.8
¶600578015
JMA IV 05 09 07 37.0 36.81N 140.57E 7–1 2.9
¶602567224
JMA Event type fe.
ISC IV 05 09 08 50.0–.95 36.77N–.04 140.53E–.04 13–6 4.4b,4.2s 95 0-147
NIED IV 05 09 08 00 36.80N 140.60E 5 4.3W,4.2s **¶602567233**
ISCJB IV 05 09 08 49.2–.55 36.75N–.03 140.48E–.04 17–4 4.3b,4.2s
JMA IV 05 09 08 49.2 36.81N 140.57E 7–1 4.4,4.2s
IDC IV 05 09 08 52.7–3.0 36.79N 140.37E 33–23 4.2,4.2s
NEIC IV 05 09 08 53.7–.61 36.76N 140.41E 38–6 4.5b,4.2s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ24.00000°,λ-134.00000°. NP2:ϕ_s178.00000°,δ73.00000°,λ-73.00000°. $M_0$3.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.7km az=148.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s182.00000°,δ60.00000°,λ-74.00000°. NP2:ϕ_s331.00000°,δ33.00000°,λ-116.00000°. Principal axes: T Plg14.0000°,Azm260.0000°; N Plg14.0000°,Azm354.0000°; P Plg70.0000° ,Azm127.0000°
IDC Error ellipse: s-maj=14.7km s-min=12.7km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.6km az=133.0. Felt at Narita. Recorded [3 JMA] in Ibaraki.
ISC IV 05 09 30 02.6–1.0 36.79N–.04 140.55E–.07 8–8 3.5b 17 0-91
IDC IV 05 09 30 01.2–1.3 36.74N 140.60E 0 4.0,3.5b **¶17199875**
ISCJB IV 05 09 30 02.2–.64 36.76N–.04 140.63E–.07 13–4 3.5b,3.5b
JMA IV 05 09 30 02.7 36.78N 140.57E 7–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=34.3km s-min=14.4km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=4.9km az=31.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s327.00000°,δ50.00000°,λ-103.00000°. NP2:ϕ_s167.00000°,δ42.00000°,λ-75.00000°. Principal axes: T Plg4.0000°,Azm66.0000°; N Plg10.0000°,Azm335.0000°; P Plg79.0000° ,Azm178.0000°
ISC IV 05 09 31 23.2–1.2 36.78N–.04 140.59E–.05 5–8 3.6b 21 0-91
ISCJB IV 05 09 31 22.5–.62 36.78N–.04 140.61E–.05 10–4 3.6b **¶17199876**
JMA IV 05 09 31 22.7 36.78N 140.56E 7–1 3.6
IDC IV 05 09 31 22.3–.92 36.76N 140.55E 0 3.9,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.0km az=40.9.
JMA Event type fe.
IDC Error ellipse: s-maj=24.3km s-min=12.7km az=164.0.
JMA IV 05 10 28 30.1–.10 38.89N 142.50E 42–2 3.6
¶600578105
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 10 45 37.4–.75 36.35N–.05 141.84E–.06 19 3.5b 20 1-90
NIED IV 05 10 45 00 36.40N 141.80E 53 4.0W **¶17199879**
ISCJB IV 05 10 45 35.8–.63 36.38N–.05 141.99E–.06 19 3.5b
JMA IV 05 10 45 38.6–.10 36.42N 141.82E 60–4 3.5
IDC IV 05 10 45 40.3–3.6 36.28N 141.85E 41–35 3.8L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ42.00000°,λ-82.00000°. NP2:ϕ_s55.00000°,δ49.00000°,λ-98.00000°. $M_0$9.88000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.6km az=43.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.2km s-min=19.4km az=98.0.
ISC IV 05 11 00 02.6–.64 38.41N–.05 142.12E–.06 41 4.0b 44 1-89
IDC IV 05 10 59 56.7–.73 38.35N 142.23E 0 4.0,3.9 **¶16577676**
ISCJB IV 05 11 00 00.5–.43 38.39N–.04 142.19E–.05 41 4.0b,3.9
JMA IV 05 11 00 00.4–.20 38.42N 142.22E 36–3 4.0,3.9
NIED IV 05 11 00 00 38.40N 142.20E 38 4.0W,3.9
NEIC IV 05 11 00 02.3–.81 38.38N 142.18E 41–7 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.1km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=36.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ58.00000°,λ-156.00000°. NP2:ϕ_s232.00000°,δ70.00000°,λ-35.00000°. $M_0$1.05000×10^{15}
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.3km az=110.0.
ISC IV 05 11 04 50.9–.88 35.90N–.05 141.59E–.07 26 3.6b 22 1-78
NIED IV 05 11 04 00 35.90N 141.70E 11 3.8W **¶17199883**
IDC IV 05 11 04 46.9–1.4 35.76N 141.69E 0 3.8,3.7b
ISCJB IV 05 11 04 49.1–.68 35.79N–.05 141.67E–.07 26 3.6b,3.7b
JMA IV 05 11 04 49.3–.40 35.95N 141.67E 21 3.7,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ60.00000°,λ-12.00000°. NP2:ϕ_s235.00000°,δ79.00000°,λ-149.00000°. $M_0$4.87000×10^{14}
IDC Error ellipse: s-maj=32.1km s-min=20.5km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.7km az=37.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 05 12 44 07.3–.20 35.71N 140.96E 9–1 3.5
¶600578205
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 05 13 09 14.0–.10 38.04N 141.67E 48–2 3.7
¶600578233
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 14 41 38.6–1.3 35.86N–.06 140.92E–.05 3–9 4.3b,3.8s 97 0-152
NIED IV 05 14 41 00 35.80N 141.00E 8 4.6W,3.8s **¶602567229**
ISCJB IV 05 14 41 36.4–.98 35.75N–.03 141.09E–.05 2–5 4.3b,3.7s
IDC IV 05 14 41 37.7–.64 35.70N 140.95E 0 4.2,4.1
JMA IV 05 14 41 38.3–.20 35.70N 140.99E 10–1 4.6,4.1
MOS IV 05 14 41 41.0–1.8 35.91N 140.89E 22 4.8b,4.1
NEIC IV 05 14 41 43.4–.96 36.18N 140.70E 18–6 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ33.00000°,λ-80.00000°. NP2:ϕ_s159.00000°,δ58.00000°,λ-96.00000°. $M_0$1.02000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.2km az=18.1.
IDC Error ellipse: s-maj=17.8km s-min=13.9km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=100.6.
NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=6.6km az=150.0. Recorded [3 JMA] in Chiba and Ibaraki.
ISC IV 05 15 01 24.1–.90 39.30N–.04 142.28E–.05 48–7 4.3b,3.6s 121 0-82
NIED IV 05 15 01 00 39.30N 142.20E 47 4.4W,3.6s **¶16455853**
MOS IV 05 15 01 20.7–.96 39.21N 142.26E 35 4.6b,3.6s
ISCJB IV 05 15 01 23.1–.51 39.28N–.03 142.28E–.06 52–3 4.3b,3.4s
JMA IV 05 15 01 23.8–.10 39.28N 142.25E 43–1 4.2,3.4s
BJI IV 05 15 01 25.2 39.70N 141.80E 10 4.9b,4.7b
IDC IV 05 15 01 26.9–2.1 39.27N 142.12E 69–19 4.1,4.0
NEIC IV 05 15 01 27.2–.74 39.28N 142.22E 74–6 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ102.00000°. $M_0$4.53000×10^{15}
MOS Error ellipse: s-maj=11.5km s-min=6.6km az=101.4.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.4km az=21.9.
JMA Event type fe.
IDC Error ellipse: s-maj=15.3km s-min=12.4km az=109.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=113.0.
JMA IV 05 15 08 42.0–.10 36.49N 141.11E 39–1 2.9
¶600578322
ISC IV 05 15 20 05.4–.70 35.42N–.05 141.19E–.08 33 3.8b 24 0-148
ISCJB IV 05 15 20 03.8–.61 35.44N–.04 141.28E–.09 33 3.8b **¶17199908**
JMA IV 05 15 20 04.1–.10 35.43N 141.21E 30–1 3.4
IDC IV 05 15 20 07.4–2.1 35.40N 141.09E 48–21 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.3km az=0.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.1km s-min=12.0km az=85.0.
ISC IV 05 15 50 23.0–1.4 38.54N–.06 141.8E–.10 68 3.4b 21 0-83
NIED IV 05 15 50 00 38.50N 141.80E 56 3.6W **¶17199911**
IDC IV 05 15 50 21.9–3.0 39.14N 141.09E 0 3.6,3.6
ISCJB IV 05 15 50 22.4–.97 38.53N–.05 141.8E–.10 68 3.4b,3.6
JMA IV 05 15 50 22.8–.10 38.53N 141.81E 51–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ28.00000°,λ68.00000°. NP2:ϕ_s15.00000°,δ65.00000°,λ101.00000°. $M_0$3.28000×10^{14}
IDC Error ellipse: s-maj=67.6km s-min=27.6km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=5.9km az=21.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 05 17 10 03.2–.10 35.69N 140.84E 27–1 2.8
¶600578371
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 18 13 05.7–1.1 37.10N–.04 141.19E–.09 53–8 3.8b,3.6s 32 0-74
ISCJB IV 05 18 13 04.9–.85 37.08N–.04 141.2E–.10 62–4 3.7b,3.6s **¶600578424**
IDC IV 05 18 13 06.0–5.3 37.14N 141.26E 59–38 3.8,3.7
JMA IV 05 18 13 06.6–.10 37.09N 141.07E 55–1 3.9,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.1km az=1.8.
IDC Error ellipse: s-maj=67.0km s-min=15.8km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 19 11 41.2–2.1 38.57N–.04 142.51E–.05 8–12 4.1b,3.3s 115 1-145
NIED IV 05 19 11 00 38.60N 142.40E 20 4.2W,3.3s **¶16411034**
NEIC IV 05 19 11 32.3–1.3 37.75N 144.54E 40–11 4.5b,3.3s
BJI IV 05 19 11 34.0 37.33N 143.90E 30 4.8b,4.4b
ISCJB IV 05 19 11 41.7–.85 38.58N–.03 142.52E–.04 21–5 4.1b,3.4s
MOS IV 05 19 11 42.5–.95 38.62N 142.52E 27 4.3b,3.4s
JMA IV 05 19 11 44.1–.10 38.61N 142.41E 33–3 4.2,3.4s
IDC IV 05 19 11 46.8–2.0 38.55N 142.33E 47–19 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ50.00000°,λ-51.00000°. NP2:ϕ_s257.00000°,δ53.00000°,λ-127.00000°. $M_0$2.26000×10^{15}
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=11.2km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.0km az=40.8.
MOS Error ellipse: s-maj=9.9km s-min=6.1km az=89.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=115.0.
ISC IV 05 19 43 39.2–.58 39.72N–.04 142.28E–.05 46–4 4.6b,3.5s 234 0-145
NIED IV 05 19 43 00 39.70N 142.30E 41 4.5W,3.5s **¶16410390**
ISCJB IV 05 19 43 37.9–.44 39.73N–.03 142.31E–.05 49–2 4.5b,3.4s
MOS IV 05 19 43 38.5–1.0 39.82N 142.23E 49 4.8b,3.4s
JMA IV 05 19 43 39.0–.10 39.73N 142.25E 44–1 4.3,3.4s
NEIC IV 05 19 43 41.4–.57 39.76N 142.19E 64–5 4.7b,3.4s
IDC IV 05 19 43 41.9–2.2 39.72N 142.17E 67–19 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ19.00000°,λ68.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ97.00000°. $M_0$6.22000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=25.5.
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=103.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=120.0.
IDC Error ellipse: s-maj=15.7km s-min=12.0km az=110.0.
ISC IV 05 20 19 23.8–2.4 38.81N–.06 142.1E–.20 42–17 3.6b 22 0-59
IDC IV 05 20 19 15.3–2.6 38.97N 142.74E 0 3.7,3.6 **¶17199924**
ISCJB IV 05 20 19 23.9–1.3 38.78N–.05 142.0E–.10 56–7 3.5b,3.1s

JMA IV 05 20 19 24.2–.10 38.77N 142.01E 48–1 3.6,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=54.9km s-min=29.7km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=17.2km s-min=7.9km az=1.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 21 16 12.5–2.5 36.6N–.10 141.9E–.20 19 10 1-60
IDC IV 05 21 15 53.2–9.0 33.80N 142.39E 0 4.0,4.0s ¶600578533
JMA IV 05 21 16 10.6–.30 36.54N 141.93E 15–4 3.4,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=313.4km s-min=31.7km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 05 21 23 59.7–.40 36.32N–.03 140.95E–.04 23–2 4.3b,3.4s 130 0-147
NIED IV 05 21 23 00 36.30N 140.90E 29 4.3W,3.4s ¶16410395
BJI IV 05 21 23 58.9 36.21N 140.70E 25 4.7b,4.6b
ISCJB IV 05 21 23 59.1–.57 36.31N–.02 141.01E–.04 31–3 4.2b,3.2s
JMA IV 05 21 23 59.8–.10 36.31N 140.94E 41–1 4.4,3.2s
IDC IV 05 21 24 01.0–.51 36.19N 140.81E 32–3 4.6L,4.2
NEIC IV 05 21 24 02.3–.93 36.20N 140.90E 47–8 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ7.00000°,λ-168.00000°. NP2:ϕ_s200.00000°,δ88.00000°,λ-83.00000°. $M_0$2.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.0km az=16.9.
JMA Event type fe.
IDC Error ellipse: s-maj=14.1km s-min=12.5km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=6.6km az=125.0. Recorded [3 JMA] in Ibaraki.
ISC IV 05 22 01 58.5–.40 38.37N–.03 142.32E–.03 16–2 5.0b,4.5s 569 1-151
NIED IV 05 22 01 00 38.40N 142.30E 14 4.8W,4.5s ¶16410396
BJI IV 05 22 01 55.5 38.20N 142.30E 16 5.0b,4.9b
IDC IV 05 22 01 56.3–.45 38.32N 142.17E 0 4.8,4.7
ISCJB IV 05 22 01 58.6–.64 38.35N–.02 142.21E–.03 24–4 4.9b,4.5s
JMA IV 05 22 01 58.2–.20 38.40N 142.31E 27–3 5.0,4.5s
NEIC IV 05 22 01 59.3–2.0 38.37N 142.10E 16–12 5.0b,4.5s
GCMT IV 05 22 01 59.3–.30 38.37N 142.31E 17–1 5.0W,4.5s
MOS IV 05 22 02 00.2–.94 38.46N 142.15E 32 5.1b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ22.00000°,λ-48.00000°. NP2:ϕ_s307.00000°,δ74.00000°,λ-105.00000°. $M_0$2.09000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=11.2km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=42.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=125.0. Recorded [3 JMA] in Miyagi.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c37; s92,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.28±.16 $M_{\theta\theta}$0.91±.09; $M_{\phi\phi}$1.37±.10; $M_{r\theta}$2.24±.31; $M_{\theta\phi}$-0.21±.06; $M_{\phi r}$-2.49±.30; Best double couple: NP1:ϕ_s320.00000°,δ76.00000°,λ-93.00000°. NP2:ϕ_s153.00000°,δ15.00000°,λ-78.00000°. Principal axes: T 3.3770,Plg31.0000°,Azm53.0000°; N 0.8950,Plg3.0000°,Azm321.0000°; P -4.2690,Plg59.0000°,Azm226.0000° $M_0$3.82300×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=108.0.
IDC IV 05 22 21 04.5–2.2 36.38N 141.84E 0 3.8,3.8 ¶17199933
IDC Error ellipse: s-maj=45.5km s-min=25.6km az=62.0.
JMA IV 05 22 50 21.9–.20 38.40N 142.28E 31–3 3.7
NIED IV 05 22 50 00 38.40N 142.30E 71 4.6W ¶600578572
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ20.00000°,λ13.00000°. NP2:ϕ_s331.00000°,δ86.00000°,λ110.00000°. $M_0$7.58000×10^{15}
ISC IV 05 22 54 26.2–1.6 39.11N–.04 142.32E–.07 28–10 4.0b,3.1s 41 1-83
NIED IV 05 22 54 00 39.20N 142.40E 32 3.8W,3.1s ¶16577690
IDC IV 05 22 54 22.0–.85 39.06N 142.30E 0 3.9,3.8
ISCJB IV 05 22 54 26.4–.88 39.13N–.04 142.39E–.08 44–7 3.9b,3.2s
JMA IV 05 22 54 26.4–.10 39.19N 142.40E 32–1 4.2,3.2s
NEIC IV 05 22 54 27.2–.50 39.11N 142.33E 35 4.3b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ42.00000°,λ-109.00000°. NP2:ϕ_s163.00000°,δ51.00000°,λ-74.00000°. $M_0$6.68000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=19.8km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.7km az=21.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.4km az=124.0.
ISC IV 06 00 22 45.5–2.4 36.91N–.08 141.3E–.20 43–14 3.3b 20 0-51
IDC IV 06 00 22 31.2–6.2 36.45N 142.46E 0 3.5,3.5 ¶17199941
JMA IV 06 00 22 47.5–.10 36.94N 141.13E 50–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=102.0km s-min=66.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 01 38 31.2–1.5 36.45N–.07 141.2E–.10 26 3.3b 12 1-128
IDC IV 06 01 38 25.1–1.3 36.98N 141.87E 0 3.6,3.4 ¶17199946
JMA IV 06 01 38 25.7–.20 36.44N 141.93E 58 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=29.4km az=129.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 06 03 21 56.4 36.78N 140.64E 9–1 2.8 ¶600578675
ISC IV 06 03 27 55.1–.84 38.80N–.07 141.94E–.10 51 3.7b 17 0-116
NIED IV 06 03 27 00 38.80N 142.10E 32 4.0W ¶17199954
IDC IV 06 03 27 48.0–.84 38.68N 141.99E 0 3.9,3.7
ISCJB IV 06 03 27 53.1–.71 38.76N–.06 142.03E–.07 51 3.8b,3.7
JMA IV 06 03 27 53.5–.10 38.80N 142.08E 36–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ55.00000°,λ-148.00000°. NP2:ϕ_s109.00000°,δ64.00000°,λ-39.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=35.3km s-min=21.8km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=7.8km az=148.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 06 03 54 09.2–.20 38.40N 142.28E 25–2 3.6 ¶600578692
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 04 23 13.2–1.9 39.28N–.05 142.31E–.09 26–13 3.6b 21 0-67
NIED IV 06 04 23 00 39.30N 142.40E 20 3.9W ¶17199961
IDC IV 06 04 23 09.8–.87 38.97N 142.86E 0 3.7,3.6
ISCJB IV 06 04 23 10.7–1.7 39.26N–.04 142.47E–.06 11–10 3.6b,3.6
JMA IV 06 04 23 12.2–.10 39.28N 142.41E 30–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ46.00000°,λ-123.00000°. NP2:ϕ_s148.00000°,δ53.00000°,λ-60.00000°. $M_0$7.43000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=18.6km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.6km az=13.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 04 39 48.5–1.2 36.49N–.07 140.65E–.07 60–8 20 0-56
IDC IV 06 04 39 38.8–3.0 36.66N 141.25E 0 3.6,3.5b ¶17199963
ISCJB IV 06 04 39 47.7–.88 36.48N–.05 140.64E–.07 64–6 3.5b,3.5b
JMA IV 06 04 39 49.2–.10 36.52N 140.57E 58–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=69.2km s-min=33.3km az=53.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.8km az=42.3.
JMA Event type fe.
ISC IV 06 05 03 03.6–1.0 35.72N–.04 140.04E–.06 78–7 3.2b 28 0-56
IDC IV 06 05 02 51.6–2.6 36.03N 140.97E 0 3.6,3.6L ¶600578723
ISCJB IV 06 05 03 02.5–.63 35.72N–.04 140.05E–.07 81–5 3.2b,3.6L
JMA IV 06 05 03 03.4–.20 35.81N 140.06E 67–2 2.8,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=63.5km s-min=24.7km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.4km az=156.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 05 31 21.4–1.7 38.23N–.05 141.9E–.10 42–15 4.1b 26 1-80
NIED IV 06 05 31 00 38.30N 141.80E 44 3.7W ¶17199970
IDC IV 06 05 31 14.2–1.7 38.38N 142.43E 0 4.0,4.0b
ISCJB IV 06 05 31 21.4–1.1 38.26N–.05 141.9E–.10 55–7 4.0b,3.4s
JMA IV 06 05 31 22.5–.10 38.25N 141.78E 50–1 4.1,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ16.00000°,λ69.00000°. NP2:ϕ_s20.00000°,δ75.00000°,λ96.00000°. $M_0$4.63000×10^{14}
IDC Error ellipse: s-maj=45.8km s-min=22.7km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=6.6km az=16.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 05 50 04.5–.90 35.80N–.07 141.32E–.07 26 3.5b 15 0-91
IDC IV 06 05 50 00.3–1.1 35.59N 141.48E 0 3.7,3.4 ¶17199971
JMA IV 06 05 50 02.9–.30 35.77N 141.41E 20–3 3.3,3.4
ISCJB IV 06 05 50 03.1–.77 35.75N–.08 141.45E–.07 26 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 05 54 20.7–.72 38.36N–.04 142.27E–.04 8–4 4.5b,4.0s 142 1-145
NIED IV 06 05 54 00 38.40N 142.30E 11 4.3W,4.0s ¶16411040
ISCJB IV 06 05 54 21.5–.83 38.36N–.03 142.29E–.04 24–5 4.4b,3.9s
JMA IV 06 05 54 22.1–.20 38.40N 142.30E 31–3 4.5,3.9s
MOS IV 06 05 54 23.1–.98 38.38N 142.31E 37 4.6b,3.9s
NEIC IV 06 05 54 26.6–.73 38.35N 142.17E 46–6 4.6b,3.9s
IDC IV 06 05 54 26.2–2.2 38.35N 142.11E 42–20 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ19.00000°,λ-56.00000°. NP2:ϕ_s303.00000°,δ75.00000°,λ-101.00000°. $M_0$3.10000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=33.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=6.7km az=101.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.2km az=110.0.
IDC Error ellipse: s-maj=14.0km s-min=11.4km az=104.0.
ISC IV 06 06 14 26.2–2.5 39.55N–.05 142.65E–.06 15–14 4.2b 59 1-145
NIED IV 06 06 14 00 39.60N 142.70E 8 4.2W ¶16506226
ISCJB IV 06 06 14 25.0–1.2 39.58N–.04 142.76E–.07 18–7 4.2b
JMA IV 06 06 14 24.9–.20 39.56N 142.75E 17–2 4.4
IDC IV 06 06 14 30.4–2.4 39.54N 142.68E 48–22 4.2,4.1
NEIC IV 06 06 14 30.5–1.0 39.65N 142.77E 47–8 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ32.00000°,λ-34.00000°. NP2:ϕ_s229.00000°,δ73.00000°,λ-117.00000°. $M_0$2.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=6.0km az=29.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.3km az=137.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=123.0.
ISC IV 06 06 45 21.5–.83 35.01N–.05 141.23E–.08 35 3.5b 22 0-79
IDC IV 06 06 45 16.6–.95 34.99N 141.26E 0 3.9,3.7 ¶17199977
ISCJB IV 06 06 45 19.8–.68 34.99N–.05 141.25E–.07 35 3.6b,2.6s
JMA IV 06 06 45 19.5–.10 35.10N 141.25E 17–3 3.2,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=20.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.7km az=176.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 06 07 12 58.5–.20 37.37N 141.83E 40–3 4.0 ¶600578788
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 07 20 38.5–.98 38.60N–.06 142.83E–.07 10 3.6b 24 1-62
IDC IV 06 07 20 36.9–1.2 38.38N 143.15E 0 3.7,3.6 ¶17199980
JMA IV 06 07 20 37.4–.40 38.51N 142.89E 6–5 3.7,3.6
ISCJB IV 06 07 20 38.1–.77 38.57N–.05 142.93E–.06 10 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 07 54 18.4–1.1 38.57N–.06 142.18E–.09 41 3.5b 21 1-76
NIED IV 06 07 54 00 38.60N 142.20E 47 3.8W ¶17199984
IDC IV 06 07 54 12.6–1.1 38.60N 142.42E 0 3.9,3.8
ISCJB IV 06 07 54 16.8–.77 38.55N–.05 142.19E–.08 41 3.5b,3.8
JMA IV 06 07 54 17.4–.10 38.61N 142.16E 39–2 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ80.00000°,λ-176.00000°. NP2:ϕ_s265.00000°,δ86.00000°,λ-10.00000°. $M_0$5.32000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=21.1km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.7km az=166.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 06 09 26 43.5–2.4 36.53N–.06 142.0E–.10 2–14 17 1-45
ISCJB IV 06 09 26 44.7–2.1 36.56N–.07 142.0E–.10 13–18 3.2b ¶17199990
IDC IV 06 09 26 44.3–3.6 36.59N 141.97E 0 3.5,3.5b
JMA IV 06 09 26 46.4–.20 36.58N 141.90E 24–4 3.1,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=10.9km az=169.2.
IDC Error ellipse: s-maj=55.3km s-min=36.4km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 10 03 12.6–.62 38.55N–.05 142.96E–.07 23 3.7b 36 1-88
NIED IV 06 10 03 00 38.60N 142.90E 26 3.9W ¶17199992
ISCJB IV 06 10 03 10.9–.58 38.56N–.05 143.02E–.06 23 3.6b,3.6s
JMA IV 06 10 03 12.2–.20 38.59N 142.88E 21–4 4.0,3.6s
IDC IV 06 10 03 14.6–.75 38.52N 142.90E 39–6 3.8L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ45.00000°,λ135.00000°. NP2:ϕ_s269.00000°,δ60.00000°,λ55.00000°. $M_0$8.46000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.9km az=137.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.5km s-min=15.2km az=121.0.
ISC IV 06 10 09 24.0–1.1 35.87N–.05 140.61E–.08 13–8 3.8b 27 0-91
NIED IV 06 10 09 00 35.90N 140.80E 23 4.0W ¶16413280
IDC IV 06 10 09 21.9–.67 35.86N 140.67E 0 3.9,3.8
ISCJB IV 06 10 09 23.8–.54 35.86N–.04 140.76E–.07 26–3 3.7b,2.9s
JMA IV 06 10 09 24.7–.10 35.89N 140.71E 18–1 4.1,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ42.00000°,λ-143.00000°. NP2:ϕ_s173.00000°,δ66.00000°,λ-54.00000°. $M_0$1.24000×10^{15}
IDC Error ellipse: s-maj=20.8km s-min=15.3km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.4km az=158.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s170.00000°,δ52.00000°,λ-88.00000°. NP2:ϕ_s346.00000°,δ38.00000°,λ-93.00000°. Principal axes: T Plg7.0000°,Azm258.0000°; N Plg2.0000°,Azm348.0000°; P Plg83.0000°,Azm94.0000°
ISC IV 06 10 28 30.1–.92 39.13N–.05 142.4E–.10 21–5 3.4b 30 1-63
NIED IV 06 10 28 00 39.10N 142.40E 38 3.6W ¶17199994
ISCJB IV 06 10 28 29.3–1.3 39.09N–.04 142.48E–.08 26–7 3.5b
JMA IV 06 10 28 30.7–.10 39.12N 142.40E 34–1 3.8
IDC IV 06 10 28 35.2–4.1 39.03N 142.35E 68–39 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ35.00000°,λ-97.00000°. NP2:ϕ_s159.00000°,δ56.00000°,λ-85.00000°. $M_0$2.70000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.3km az=18.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.8km s-min=16.8km az=106.0.
JMA IV 06 10 44 56.0–.20 38.94N 142.36E 32–2 3.5
NIED IV 06 10 44 00 38.90N 142.40E 38 3.9W ¶600578885
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ16.00000°,λ67.00000°. NP2:ϕ_s317.00000°,δ75.00000°,λ96.00000°. $M_0$8.94000×10^{14}
ISC IV 06 10 47 54.1–.96 38.82N–.05 142.38E–.07 27 3.7b 17 1-88
NIED IV 06 10 47 00 38.90N 142.40E 50 3.9W ¶17199996
ISCJB IV 06 10 47 53.4–.79 38.87N–.06 142.50E–.07 27 3.5b
JMA IV 06 10 47 55.9–.20 38.95N 142.37E 39–2 3.9
IDC IV 06 10 47 58.5–4.0 38.83N 142.37E 62–38 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ28.00000°,λ-88.00000°. NP2:ϕ_s312.00000°,δ62.00000°,λ-91.00000°. $M_0$7.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=7.7km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.2km s-min=26.6km az=96.0.
JMA IV 06 10 56 47.0–.20 36.67N 141.46E 45–3 2.6 ¶600578894

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 12 21 49.6–1.0 37.49N–.04 141.61E–.09 39–3 3.5b 33 1-146
ISCJB IV 06 12 21 49.4–.94 37.46N–.04 141.58E–.09 50–8 3.5b **¶17200004**
IDC IV 06 12 21 51.5–4.6 37.40N 141.47E 51–39 3.5,3.5
JMA IV 06 12 21 51.3–.10 37.52N 141.45E 47–2 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.2km az=8.0.
IDC Error ellipse: s-maj=39.6km s-min=16.8km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 06 12 23 19.5–.10 36.29N 141.14E 18–2 3.3
¶600578963
ISC IV 06 12 56 51.6–.53 36.72N–.03 140.59E–.04 20–2 4.9b,4.0s 719 0-158
NIED IV 06 12 56 00 36.70N 140.70E 5 4.7W,4.0s **¶16411052**
ISCJB IV 06 12 56 50.2–.52 36.78N–.02 140.42E–.02 15–3 4.8b,4.0s
BJI IV 06 12 56 50.3 36.63N 140.75E 37 4.9b,4.7b
JMA IV 06 12 56 50.4 36.73N 140.60E 7–1 4.9,4.7b
MOS IV 06 12 56 53.5–.94 37.10N 140.35E 28 5.1b,4.7b
NEIC IV 06 12 56 54.7–.54 36.74N 140.36E 36–5 4.9b,4.7b
IDC IV 06 12 56 55.1–1.4 36.70N 140.50E 44–13 4.6,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ35.00000°,λ-66.00000°. NP2:ϕ_s163.00000°,δ59.00000°,λ-106.00000°. $M_0$1.21000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=151.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s172.00000°,δ52.00000°,λ-76.00000°. NP2:ϕ_s330.00000°,δ40.00000°,λ-107.00000°. Principal axes: T Plg6.0000°,Azm252.0000°; N Plg11.0000°,Azm343.0000°; P Plg78.0000°,Azm135.0000°
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=100.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.3km az=149.0. Felt at Tokyo. Recorded [4 JMA] in Ibaraki.
IDC Error ellipse: s-maj=10.2km s-min=8.1km az=74.0.
ISC IV 06 13 21 34.3–1.8 37.78N–.04 141.88E–.08 27–13 3.4b 27 1-58
IDC IV 06 13 21 28.7–2.6 37.85N 142.31E 0 3.5,3.4b **¶17200007**
JMA IV 06 13 21 37.0 37.81N 141.72E 53–2 3.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=64.7km s-min=31.6km az=67.0.
ISC IV 06 13 54 51.2–.31 37.67N–.03 141.49E–.03 53–2 5.4b,4.9s 1273 1-156
NIED IV 06 13 54 00 37.60N 141.60E 53 5.1W,4.9s **¶16411054**
MOS IV 06 13 54 47.7–.80 37.66N 141.44E 32 5.6b,4.1s
BJI IV 06 13 54 50.1 37.61N 141.43E 61 5.3b,5.0b
ISCJB IV 06 13 54 51.0–.28 37.65N–.02 141.45E–.02 60–2 5.4b,4.9s
JMA IV 06 13 54 51.1–.10 37.63N 141.57E 46–2 5.3,4.9s
IDC IV 06 13 54 51.4–.38 37.66N 141.56E 52–3 5.2,5.1
NEIC IV 06 13 54 52.2–.32 37.65N 141.43E 60–2 5.4b,5.3W
GCMT IV 06 13 54 52.2–.40 37.91N 141.56E 54–1 5.2W,5.3W
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ42.00000°,λ83.00000°. NP2:ϕ_s210.00000°,δ49.00000°,λ96.00000°. $M_0$5.84000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=104.2.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.0.
JMA Event type fe.
IDC Error ellipse: s-maj=10.1km s-min=7.7km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=139.0. Felt [II] at Tokyo. Also felt at Fukushima, Misawa, Musashino and Otawara. Recorded [4 JMA] in Miyagi. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-0.69 $M_{\phi\phi}$-0.38 $M_{r\theta}$0.13 $M_{\theta\phi}$0.43 $M_{\phi r}$-0.30 Best double couple: NP1:ϕ_s133.00000°,δ53.00000°,λ100.00000°. NP2: ϕ_s298.00000°,δ38.00000°,λ77.00000°. Principal axes: T 1.1200,Plg79.0000°,Azm83.0000°; N -0.1000,Plg8.0000°,Azm308.0000°; P -1.0200,Plg8.0000°,Azm217.0000° $M_0$1.10000×10^{17}
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c67; s53,c77; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}7.51±.31 $M_{\theta\theta}$-1.84±.20; $M_{\phi\phi}$-5.68±.20; $M_{r\theta}$-0.25±.17; $M_{\theta\phi}$-1.96±.14; $M_{\phi r}$-0.46±.19; Best double couple: NP1:ϕ_s203.00000°,δ47.00000°,λ90.00000°. NP2:ϕ_s22.00000°,δ43.00000°,λ89.00000°. Principal axes: T 7.5300,Plg88.0000°,Azm123.0000°; N -1.0170,Plg0.0000°,Azm33.0000°; P -6.5230,Plg2.0000°,Azm293.0000° $M_0$7.02600×10^{16}
ISC IV 06 15 25 03.7–1.1 35.77N–.06 141.41E–.08 28–5 3.4b 20 0-60
ISCJB IV 06 15 25 04.1–1.1 35.74N–.06 141.3E–.10 46–8 3.4b **¶17200020**
JMA IV 06 15 25 04.2–.10 35.83N 141.33E 41–2 3.0
IDC IV 06 15 25 05.5–5.0 35.68N 141.42E 38–43 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=7.7km az=157.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=46.9km s-min=22.2km az=88.0.
ISC IV 06 15 31 13.6–1.1 36.55N–.06 141.25E–.09 32 3.5b 19 1-57
ISCJB IV 06 15 31 11.9–.97 36.56N–.04 141.30E–.09 32 3.5b **¶17200021**
JMA IV 06 15 31 13.4–.10 36.55N 141.18E 45–2 3.3
IDC IV 06 15 31 17.3–5.8 36.46N 141.01E 62–38 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.5km az=167.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=75.1km s-min=14.7km az=76.0.
ISC IV 06 15 36 24.4–1.7 38.89N–.07 142.1E–.10 51 17 0-59
IDC IV 06 15 36 14.5–3.1 39.09N 142.98E 0 3.4,3.3b **¶17200022**
ISCJB IV 06 15 36 23.6–1.3 38.88N–.05 142.1E–.10 51 3.2b,3.3b
JMA IV 06 15 36 24.2–.10 38.87N 142.03E 47–1 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=71.3km s-min=32.3km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=7.5km az=10.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 15 56 28.7–.00 37.04N–.04 141.34E–.07 33–5 3.8b 28 0-74
NIED IV 06 15 56 00 37.10N 141.20E 56 4.6W **¶17200023**
ISCJB IV 06 15 56 28.2–.98 37.01N–.04 141.4E–.10 48–7 3.6b
JMA IV 06 15 56 30.2–.10 37.05N 141.19E 50–1 3.9
IDC IV 06 15 56 32.4–2.8 36.91N 141.15E 69–26 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ26.00000°,λ155.00000°. NP2:ϕ_s75.00000°,δ79.00000°,λ66.00000°. $M_0$8.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=6.8km az=4.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=14.6km az=74.0.
ISC IV 06 16 25 38.7–.79 38.34N–.04 142.25E–.04 27–4 4.6b,3.9s 218 1-145
NIED IV 06 16 25 00 38.40N 142.20E 38 4.4W,3.9s **¶16411058**
IDC IV 06 16 25 35.0–.50 38.33N 142.14E 0 4.8L,4.5
BJI IV 06 16 25 37.3 38.24N 142.23E 36 5.0b,4.8b
ISCJB IV 06 16 25 37.2–.75 38.32N–.03 142.25E–.04 28–4 4.5b,4.0s
MOS IV 06 16 25 38.5–.97 38.38N 142.27E 36 4.9b,4.0s
JMA IV 06 16 25 39.5–.20 38.39N 142.14E 39–3 4.5,4.0s
NEIC IV 06 16 25 41.2–.62 38.32N 142.16E 45–5 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ22.00000°,λ-179.00000°. NP2:ϕ_s180.00000°,δ90.00000°,λ-68.00000°. $M_0$3.89000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=12.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=35.3.
MOS Error ellipse: s-maj=8.3km s-min=5.5km az=103.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.7km az=118.0. Recorded [3 JMA] in Miyagi.
ISC IV 06 17 55 18.2–.64 36.90N–.05 140.54E–.06 10 3.7b 19 0-91
NIED IV 06 17 55 00 36.90N 140.50E 5 3.7W **¶17200032**
ISCJB IV 06 17 55 16.9–.55 36.91N–.05 140.66E–.07 10 3.6b
IDC IV 06 17 55 16.4–.83 36.94N 140.63E 0 3.8,3.7
JMA IV 06 17 55 18.5 36.88N 140.52E 5–2 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ28.00000°,λ-110.00000°. NP2:ϕ_s192.00000°,δ64.00000°,λ-80.00000°. $M_0$4.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.3km az=39.1.
IDC Error ellipse: s-maj=21.3km s-min=16.3km az=109.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s172.00000°,δ45.00000°,λ-97.00000°. NP2:ϕ_s2.00000°,δ45.00000°,λ-83.00000°. Principal axes: T Plg0.0000°,Azm267.0000°; N Plg5.0000°,Azm177.0000°; P Plg85.0000°,Azm357.0000°

JMA IV 06 18 33 05.8–.20 37.53N 141.82E 33–3 3.5
NIED IV 06 18 33 00 37.50N 141.80E 11 3.2W **¶600579195**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ45.00000°,λ-143.00000°. NP2:ϕ_s124.00000°,δ65.00000°,λ-51.00000°. $M_0$7.56000×10^{13}
ISC IV 06 20 32 04.6–2.1 37.31N–.06 141.72E–.10 28–14 16 1-57
IDC IV 06 20 31 57.8–1.9 37.67N 141.78E 0 3.9,3.9 **¶600579327**
ISCJB IV 06 20 32 03.8–1.7 37.26N–.05 141.77E–.09 33–8 3.6b,3.9
JMA IV 06 20 32 07.1–.20 37.32N 141.57E 43–2 3.1,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=49.6km s-min=27.1km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=7.6km az=175.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 06 20 57 15.4–.10 38.73N 142.02E 42–2 2.7
¶17200051
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 06 22 25 35.8–1.2 37.92N–.04 141.70E–.08 52–10 4.0b,3.3s 52 1-89
NIED IV 06 22 25 00 37.90N 141.70E 50 4.2W,3.3s **¶17200059**
ISCJB IV 06 22 25 34.7–.74 37.92N–.04 141.70E–.08 58–5 4.0b,3.2s
JMA IV 06 22 25 35.4–.10 37.91N 141.67E 48–2 4.2,3.2s
IDC IV 06 22 25 37.6–2.0 37.87N 141.62E 70–18 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ3.00000°,λ52.00000°. NP2:ϕ_s6.00000°,δ87.00000°,λ92.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.2km az=18.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=12.8km az=81.0.
JMA IV 06 22 41 33.0 36.83N 140.53E 5–1 2.7
¶600579435
ISC IV 06 23 16 56.7–.84 35.46N–.04 141.03E–.08 33 4.0b,2.6s 21 0-76
ISCJB IV 06 23 16 55.2–.64 35.42N–.04 141.21E–.08 33 3.9b,3.1s **¶600579469**
JMA IV 06 23 16 55.3–.10 35.42N 141.21E 26–1 3.2,3.1s
IDC IV 06 23 16 59.8–2.7 35.37N 140.94E 59–24 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.6km az=179.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.1km s-min=13.9km az=86.0.
JMA IV 06 23 41 33.0–.10 39.94N 142.45E 36–1 3.6
¶600579482
ISC IV 06 23 49 31.5–1.6 37.36N–.04 141.50E–.07 29–10 4.2b 67 0-90
NIED IV 06 23 49 00 37.40N 141.60E 11 3.8W **¶16577711**
IDC IV 06 23 49 26.6–1.1 37.24N 141.54E 0 4.0b,4.0
ISCJB IV 06 23 49 30.6–1.0 37.35N–.03 141.54E–.05 33–6 4.2b,4.0
JMA IV 06 23 49 30.9–.10 37.38N 141.56E 32–2 4.2,4.0
NEIC IV 06 23 49 32.3–.33 37.30N 141.48E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ19.00000°,λ-63.00000°. NP2:ϕ_s33.00000°,δ73.00000°,λ-99.00000°. $M_0$6.10000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=17.2km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.3km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.3km az=155.0.
JMA IV 07 00 51 58.6–.10 35.89N 140.96E 17–2 3.4
¶600579548
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 07 01 12 04.1–.10 37.42N 141.53E 42–2 3.6
¶16506236
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 01 12 55.6–.46 35.54N–.05 141.84E–.06 22 4.2b,3.5s 61 1-147
IDC IV 07 01 12 52.6–.53 35.58N 141.87E 0 4.2,4.1 **¶600579562**
ISCJB IV 07 01 12 54.0–.36 35.57N–.04 141.93E–.05 22 4.2b,3.4s
JMA IV 07 01 12 54.2–.20 35.69N 141.93E 20–3 3.8,3.4s
NEIC IV 07 01 12 57.7–.37 35.61N 141.88E 35 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.2km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.5km az=34.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.6km az=88.0.
ISC IV 07 01 25 03.0–2.8 38.59N–.07 141.9E–.20 27–12 12 0-4
JMA IV 07 01 25 00.2–.10 38.49N 142.09E 39–2 3.5 **¶600579568**
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 07 01 42 38.3–.10 39.07N 142.40E 31–2 3.6
NIED IV 07 01 42 00 39.10N 142.40E 56 4.3W **¶600579575**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ36.00000°,λ13.00000°. NP2:ϕ_s302.00000°,δ83.00000°,λ125.00000°. $M_0$3.36000×10^{15}
ISC IV 07 02 11 30.5–1.6 37.30N–.05 141.55E–.07 29–11 3.7b 25 1-146
NIED IV 07 02 11 00 37.30N 141.40E 56 3.9W **¶600579597**
IDC IV 07 02 11 26.3–.89 37.34N 141.50E 0 3.8,3.6
ISCJB IV 07 02 11 30.4–.95 37.27N–.04 141.54E–.09 44–9 3.6b,3.6
JMA IV 07 02 11 32.0–.10 37.29N 141.41E 44–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ33.00000°,λ86.00000°. NP2:ϕ_s17.00000°,δ57.00000°,λ92.00000°. $M_0$6.69000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=19.0km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.7km az=14.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 02 40 46.2–.48 36.56N–.03 140.88E–.04 41–3 4.9b,4.2s 522 0-158
NIED IV 07 02 40 00 36.60N 140.90E 50 4.8W,4.2s **¶16413291**
BJI IV 07 02 40 43.0 36.39N 141.03E 49 5.0b,4.9b
MOS IV 07 02 40 45.1–.77 36.83N 140.67E 31 5.2b,4.0s
JMA IV 07 02 40 46.6–.10 36.54N 140.89E 51–1 4.9,4.0s
ISCJB IV 07 02 40 47.3–.30 36.61N–.03 140.72E–.03 57–2 4.8b,4.1s
IDC IV 07 02 40 48.7–1.3 36.52N 140.82E 63–11 4.9,4.6
NEIC IV 07 02 40 48.2–.55 36.59N 140.71E 53–4 4.9b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ10.00000°,λ51.00000°. NP2:ϕ_s35.00000°,δ82.00000°,λ96.00000°. $M_0$1.81000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=103.4.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=150.8.
IDC Error ellipse: s-maj=9.3km s-min=8.2km az=81.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=157.0. Recorded [4 JMA] in Ibaraki.
JMA IV 07 04 08 13.8–.10 39.10N 142.40E 33–1 3.5
¶600579726
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 07 04 10 39.5–2.7 38.36N–.06 142.32E–.08 5–15 3.8b 29 1-145
NIED IV 07 04 10 00 38.40N 142.20E 35 3.6W **¶17200078**
IDC IV 07 04 10 38.6–.99 38.30N 142.48E 0 3.8,3.6
JMA IV 07 04 10 42.8–.10 38.35N 142.23E 31–2 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ43.00000°,λ-64.00000°. NP2:ϕ_s82.00000°,δ52.00000°,λ-112.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=25.7km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 07 06 04 44.6–1.0 36.66N–.04 140.61E–.05 12–6 19 0-60
NIED IV 07 06 04 00 36.70N 140.60E 5 3.4W **¶17200082**
ISCJB IV 07 06 04 44.0–1.0 36.60N–.04 140.72E–.07 11–4 3.7b
IDC IV 07 06 04 44.0–5.9 36.55N 140.70E 0 3.8,3.5
JMA IV 07 06 04 45.8 36.68N 140.59E 5–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ34.00000°,λ-75.00000°. NP2:ϕ_s165.00000°,δ57.00000°,λ-100.00000°. $M_0$1.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=5.4km az=33.8.
IDC Error ellipse: s-maj=124.7km s-min=28.7km az=24.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s350.00000°,δ53.00000°,λ-100.00000°. NP2:ϕ_s186.00000°,δ39.00000°,λ-77.00000°. Principal axes: T Plg7.0000°,Azm87.0000°; N Plg8.0000°,Azm356.0000°; P Plg79.0000°,Azm218.0000°

ISC IV 07 06 47 57.1–1.8 37.43N–.04 141.68E–.07 4–10 4.1b,3.7s 46 1-90
NIED IV 07 06 47 00 37.50N 141.70E 11 3.9W,3.7s ¶16512212
IDC IV 07 06 47 56.3–1.1 37.44N 141.69E 0 4.1,4.0
ISCJB IV 07 06 47 57.2–1.0 37.42N–.04 141.80E–.06 18–6 4.1b,3.6s
JMA IV 07 06 47 59.0–.20 37.45N 141.70E 26–2 4.1,3.6s
NEIC IV 07 06 47 59.5–3.2 37.47N 141.69E 19–20 4.3b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ69.00000°,λ173.00000°. NP2:ϕ_s104.00000°,δ84.00000°,λ21.00000°. $M_0$6.91000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=18.3km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.2km az=33.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.4km az=132.0.
JMA IV 07 08 06 57.0 36.83N 140.53E 5–1 2.5
¶600579846
ISC IV 07 08 25 02.2–1.5 37.62N–.04 141.91E–.05 7–8 4.3b 110 1-146
NIED IV 07 08 25 00 37.60N 141.90E 14 4.0W ¶600579849
ISCJB IV 07 08 25 02.3–.84 37.62N–.03 141.96E–.04 18–5 4.3b,3.3s
JMA IV 07 08 25 03.7–.20 37.63N 141.89E 24–3 4.3,3.3s
MOS IV 07 08 25 04.6–1.4 37.72N 142.05E 37 4.4b,3.3s
NEIC IV 07 08 25 07.2–.75 37.66N 141.86E 38–7 4.5b,3.3s
IDC IV 07 08 25 07.5–2.3 37.61N 141.79E 42–22 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ31.00000°,λ-72.00000°. NP2:ϕ_s157.00000°,δ60.00000°,λ-101.00000°. $M_0$1.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=28.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=6.5km az=89.6.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=123.0.
IDC Error ellipse: s-maj=18.3km s-min=13.7km az=96.0.
ISC IV 07 08 39 12.0–2.2 39.30N–.06 142.87E–.08 7–12 3.7b 29 1-63
NIED IV 07 08 39 00 39.20N 143.00E 5 3.9W ¶17200090
JMA IV 07 08 39 09.6–.20 39.18N 143.04E 9–2 3.6
IDC IV 07 08 39 11.9–.91 39.45N 143.03E 0 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ32.00000°,λ-133.00000°. NP2:ϕ_s252.00000°,δ67.00000°,λ-67.00000°. $M_0$8.82000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.8km s-min=17.5km az=116.0.
ISC IV 07 10 22 40.2–1.5 36.42N–.10 141.5E–.10 26 3.5b 10 3-56
IDC IV 07 10 22 35.8–2.2 36.39N 141.68E 0 3.6,3.6 ¶17200098
ISC Event type ke.
IDC Error ellipse: s-maj=51.7km s-min=22.0km az=77.0.
ISC IV 07 10 52 13.3–.71 35.59N–.04 140.73E–.05 45–6 4.4b,3.9s 153 0-148
NIED IV 07 10 52 00 35.70N 140.70E 47 4.8W,3.9s ¶16413335
BJI IV 07 10 52 08.1 35.45N 140.84E 36 4.9b,4.6b
MOS IV 07 10 52 10.1–1.1 35.58N 140.73E 33 4.5b,4.6b
NEIC IV 07 10 52 12.5–.29 35.61N 140.61E 35 4.8b,4.6b
ISCJB IV 07 10 52 12.9–.38 35.64N–.03 140.69E–.04 59–3 4.4b,3.9s
JMA IV 07 10 52 13.7–.10 35.74N 140.61E 48–1 3.9,3.9s
IDC IV 07 10 52 15.0–1.5 35.59N 140.51E 60–15 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ21.00000°,λ94.00000°. NP2:ϕ_s11.00000°,δ69.00000°,λ88.00000°. $M_0$1.60000×10^{16}
MOS Error ellipse: s-maj=9.5km s-min=6.1km az=110.5.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=6.1km az=89.0. Recorded [3 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.9km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s10.00000°,δ75.00000°,λ90.00000°. NP2: ϕ_s190.00000°,δ15.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm280.0000° ; N Plg0.0000°,Azm10.0000°; P Plg30.0000°,Azm100.0000°
IDC Error ellipse: s-maj=14.1km s-min=9.1km az=83.0.
ISC IV 07 10 59 14.1–1.5 35.03N–.07 141.1E–.10 48 3.6b 16 0-59
IDC IV 07 10 59 07.3–2.4 35.13N 141.23E 0 3.7,3.6 ¶17200101
JMA IV 07 10 59 10.9–.10 35.24N 141.20E 26–3 2.9,3.6
ISCJB IV 07 10 59 11.2–1.1 35.10N–.06 141.2E–.10 48 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 07 11 36 01.8–1.8 35.87N–.04 140.91E–.10 30–13 3.9b,2.9s 30 0-148
NIED IV 07 11 36 00 35.90N 140.90E 44 4.2W,2.9s ¶17200103
ISCJB IV 07 11 36 01.7–.57 35.84N–.05 140.90E–.08 46–5 3.9b,3.1s
JMA IV 07 11 36 02.5–.10 35.87N 140.85E 38–1 4.1,3.1s
IDC IV 07 11 36 04.2–2.0 35.79N 140.82E 55–19 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ2.00000°,λ60.00000°. NP2:ϕ_s352.00000°,δ88.00000°,λ91.00000°. $M_0$2.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.6km az=166.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.2km az=84.0.
ISC IV 07 11 47 24.7–2.0 38.32N–.05 142.09E–.08 26–14 3.7b 26 1-62
ISCJB IV 07 11 47 24.5–1.2 38.29N–.04 142.1E–.10 41–11 3.6b ¶16705912
JMA IV 07 11 47 24.8–.20 38.34N 142.08E 32–2 4.0
IDC IV 07 11 47 28.5–2.8 38.31N 142.05E 60–28 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=6.5km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.0km s-min=15.0km az=100.0.
ISC IV 07 11 48 22.3–.52 39.10N–.05 142.46E–.06 39–2 4.2b,3.8s 111 1-149
NIED IV 07 11 48 00 39.10N 142.40E 35 4.3W,3.8s ¶17200105
BJI IV 07 11 48 16.0 38.98N 143.04E 47 4.7b,4.7b
MOS IV 07 11 48 20.8–1.1 39.19N 142.38E 39 4.5b,4.7b
ISCJB IV 07 11 48 21.0–.67 39.11N–.03 142.40E–.05 42–5 4.2b,3.8s
JMA IV 07 11 48 21.1–.10 39.11N 142.37E 31–1 4.4,3.8s
NEIC IV 07 11 48 22.4–.48 39.08N 142.38E 35 4.6b,3.8s
IDC IV 07 11 48 25.1–2.5 39.09N 142.27E 61–22 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ22.00000°,λ-131.00000°. NP2:ϕ_s191.00000°,δ73.00000°,λ-75.00000°. $M_0$3.10000×10^{15}
MOS Error ellipse: s-maj=8.8km s-min=6.6km az=90.4.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=22.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.4km az=129.0.
IDC Error ellipse: s-maj=16.6km s-min=12.4km az=119.0.
ISC IV 07 11 59 16.0–1.9 38.44N–.04 142.24E–.07 15–11 3.4b 31 1-62
NIED IV 07 11 59 00 38.40N 142.20E 8 3.7W ¶17200107
IDC IV 07 11 59 13.4–1.4 38.35N 142.54E 0 3.5,3.5
ISCJB IV 07 11 59 15.4–1.2 38.40N–.03 142.29E–.07 22–7 3.4b,3.5
JMA IV 07 11 59 16.9–.10 38.44N 142.24E 30–2 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ41.00000°,λ-137.00000°. NP2:ϕ_s9.00000°,δ63.00000°,λ-57.00000°. $M_0$4.69000×10^{14}
IDC Error ellipse: s-maj=39.1km s-min=21.3km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.3km az=13.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 07 12 10 31.9–1.8 38.37N–.05 142.16E–.07 19–5 3.5b 16 1-58
NIED IV 07 12 10 00 38.50N 142.20E 35 3.5W ¶17200109
IDC IV 07 12 10 29.4–1.7 38.18N 142.80E 0 3.7,3.6
ISCJB IV 07 12 10 30.0–1.7 38.31N–.05 142.32E–.09 18–11 3.5b,3.6
JMA IV 07 12 10 32.6–.10 38.45N 142.23E 28–2 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ16.00000°,λ-32.00000°. NP2:ϕ_s280.00000°,δ82.00000°,λ-104.00000°. $M_0$2.32000×10^{14}
IDC Error ellipse: s-maj=44.5km s-min=24.8km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=8.4km az=14.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 07 12 18 35.8–.20 38.80N 142.91E 9–2 3.5
¶603308249
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 12 22 24.3–1.3 36.33N–.07 141.83E–.09 19 3.5b 18 1-60
IDC IV 07 12 22 20.1–2.1 36.37N 142.20E 0 3.6,3.6 ¶17200111
JMA IV 07 12 22 25.0–.20 36.37N 141.80E 71–4 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=56.4km s-min=21.7km az=65.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 07 12 52 47.6–3.8 36.09N–.05 141.3E–.10 3–27 13 1-60
IDC IV 07 12 52 43.8–7.7 36.55N 141.69E 0 3.5,3.4b ¶17200114
ISCJB IV 07 12 52 47.6–1.5 36.07N–.05 141.45E–.10 19–9 3.3b,3.4b
JMA IV 07 12 52 50.2–.10 36.07N 141.23E 36–2 3.2,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=163.9km s-min=32.4km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=8.6km az=176.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 07 13 08 43.5–.81 38.64N–.06 142.17E–.08 41 3.8b 26 1-68
NIED IV 07 13 08 00 38.70N 142.10E 38 4.0W ¶17200117
ISCJB IV 07 13 08 41.7–.61 38.68N–.06 142.24E–.07 41 3.8b
JMA IV 07 13 08 43.8–.10 38.67N 142.11E 42–2 3.8
IDC IV 07 13 08 45.4–2.5 38.68N 142.11E 57–23 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ32.00000°,λ-72.00000°. NP2:ϕ_s213.00000°,δ60.00000°,λ-101.00000°. $M_0$1.09000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.5km az=143.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=14.4km az=91.0.
ISC IV 07 13 46 24.8–1.5 36.62N–.04 141.12E–.05 12–9 3.9b 47 0-147
IDC IV 07 13 46 22.9–.60 36.59N 141.16E 0 3.9,3.9 ¶16577723
ISCJB IV 07 13 46 24.3–.97 36.58N–.03 141.23E–.06 22–6 3.8b,3.9
JMA IV 07 13 46 25.4–.10 36.63N 141.16E 34–1 3.9,3.9
NEIC IV 07 13 46 28.1–.30 36.56N 141.08E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=14.1km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.8km az=19.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.0km az=129.0.
ISC IV 07 14 01 48.7–1.6 36.90N–.07 141.92E–.09 19 3.5b 14 1-61
IDC IV 07 14 01 49.9–2.5 36.38N 142.08E 0 3.6,3.4 ¶17200120
JMA IV 07 14 01 50.6–.30 37.02N 141.95E 29–3 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=60.1km s-min=25.9km az=47.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 14 14 51.1–2.1 38.34N–.05 142.26E–.09 25–15 3.7b 18 1-62
ISCJB IV 07 14 14 51.2–1.4 38.32N–.05 142.3E–.10 40–18 3.6b ¶17200123
IDC IV 07 14 14 51.1–1.6 37.79N 142.91E 0 3.6,3.6
JMA IV 07 14 14 51.8–.20 38.38N 142.28E 38–3 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=8.5km az=10.2.
IDC Error ellipse: s-maj=37.7km s-min=21.3km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 14 32 44.1–.30 38.25N–.02 141.73E–.02 53–2 7.0s,6.8b 2736 0-164
NIED IV 07 14 32 00 38.20N 142.00E 68 7.1W,6.8b ¶16413596
BJI IV 07 14 32 38.6 38.20N 141.90E 40 7.2,7.1s
NEIC IV 07 14 32 41.0–.00 38.25N 142.04E 49 7.2,7.1s
MOS IV 07 14 32 42.5–.96 38.29N 141.71E 49 7.3s,7.0b
NEIC IV 07 14 32 43.3–.09 38.28N 141.59E 42 7.1,7.1W
JMA IV 07 14 32 43.4–.10 38.20N 141.92E 66–1 7.2,7.1W
GCMT IV 07 14 32 43.3–.10 38.32N 141.85E 53–0 7.1W,7.1W
ISCJB IV 07 14 32 44.3–.24 38.21N–.01 141.69E–.01 63–2 6.8b,7.1W
IDC IV 07 14 32 48.1–1.6 38.25N 141.71E 88–13 6.9s,6.9
NEIC IV 07 14 33 01.5–.00 38.46N 141.66E 51 6.9s,6.9
ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ40.00000°,λ81.00000°. NP2:ϕ_s211.00000°,δ50.00000°,λ97.00000°. $M_0$4.74000×10^{19}
NEIC Event type se. Moment Tensor Solution. s35 Moment tensor: Scale 10^{19}Nm; M_{rr}5.92 $M_{\theta\theta}$-1.85 $M_{\phi\phi}$-4.06 $M_{r\theta}$-1.43 $M_{\theta\phi}$-1.22 $M_{\phi r}$-0.44 Best double couple: NP1:ϕ_s213.00000° ,δ51.00000°,λ101.00000°. NP2:ϕ_s17.00000°,δ40.00000°,λ77.00000°. Principal axes: T 6.1700,Plg80.0000°,Azm172.0000°; N -1.4800,Plg8.0000°,Azm26.0000° ; P -4.7000,Plg5.0000°,Azm295.0000° $M_0$5.60000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=105.3. Fault plane solution: P-wave C186, D37 . Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s216.00000°,δ61.00000°,λ118.00000°. NP2: ϕ_s349.00000°,δ39.00000°,λ50.00000°. Principal axes: T Plg63.0000°,Azm173.0000° ; N Plg24.0000°,Azm22.0000°; P Plg12.0000°,Azm286.0000° $M_0$5.40000×10^{19}
NEIC Event type de. Error ellipse: s-maj=3.0km s-min=2.2km az=140.0. Two people killed, 132 injured and several roads damaged in the Ishinomaki-Onagawa area. One person died in Yamagata when a power outage interrupted oxygen supply. Felt [VII] at Sendai, [V] at Misawa and [IV] in the Tokyo-Yokohama area. Felt [V] at Sapporo, Hokkaido. Felt widely in central and northern Honshu and in southern Hokkaido. Felt [II] at Yuzhno-Kuril'sk, Kuril Islands. Recorded [6U JMA] in Miyagi, Honshu. Complex earthquake, with at least one event occurring about 2 seconds after the onset observed on broadband displacement seismograms. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$5.90000×10^{19} Moment Tensor Solution. s11 Moment tensor: Scale 10^{19}Nm; M_{rr}5.97 $M_{\theta\theta}$-2.39 $M_{\phi\phi}$-3.58 $M_{r\theta}$-0.32 $M_{\theta\phi}$-0.96 $M_{\phi r}$-1.43 Best double couple: NP1:ϕ_s205.00000°,δ53.00000°,λ87.00000°. NP2:ϕ_s31.00000° ,δ37.00000°,λ94.00000°. Principal axes: T 6.1800,Plg82.0000°,Azm99.0000° ; N -1.8800,Plg3.0000°,Azm207.0000°; P -4.3100,Plg8.0000°,Azm298.0000° $M_0$5.50000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ25.00000°,λ90.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm115.0000°; N Plg0.0000°,Azm0.0000°; P Plg20.0000° ,Azm295.0000°
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s140,c387; s143,c682;Duration: 8s8 Moment tensor: Scale 10^{19} Nm; M_{rr}5.99±.02 $M_{\theta\theta}$-1.43±.01; $M_{\phi\phi}$-4.55±.02; $M_{r\theta}$-1.11±.03; $M_{\theta\phi}$-1.65±.01; $M_{\phi r}$-1.25±.03; Best double couple: NP1:ϕ_s208.00000°,δ53.00000°,λ95.00000°. NP2:ϕ_s19.00000° ,δ37.00000°,λ83.00000°. Principal axes: T 6.2480,Plg81.0000°,Azm142.0000° ; N -0.7570,Plg4.0000°,Azm25.0000°; P -5.4810,Plg8.0000°,Azm294.0000° $M_0$5.86500×10^{19}
ISCJB Event type de. Error ellipse: s-maj=2.1km s-min=1.6km az=154.4.
IDC Error ellipse: s-maj=9.5km s-min=6.3km az=88.0.
NEIC Event type se. Moment Tensor Solution. s151 Moment tensor: Scale 10^{19}Nm; M_{rr}6.49 $M_{\theta\theta}$-1.64 $M_{\phi\phi}$-4.85 $M_{r\theta}$-1.02 $M_{\theta\phi}$-1.76 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s210.00000° ,δ49.00000°,λ98.00000°. NP2:ϕ_s18.00000°,δ42.00000°,λ81.00000°. Principal axes: T 6.6100,Plg83.0000°,Azm174.0000°; N -0.9400,Plg6.0000°,Azm25.0000° ; P -5.6700,Plg4.0000°,Azm294.0000° $M_0$6.10000×10^{19}
JMA IV 07 14 36 40.4–.10 38.38N 141.92E 58–3 4.5
¶600579996
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 07 14 37 38.9–.10 38.21N 141.84E 65–3 4.3
¶600579999
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 07 14 37 52.9–.10 38.45N 141.95E 57–2 4.5
¶600580002
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 07 14 40 24.0–.10 38.24N 141.90E 65–3 4.7
¶600580003
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 07 14 43 04.7–.10 38.40N 141.82E 61–2 3.5
¶600580004
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 07 14 45 05.6–.10 38.34N 141.87E 64–3 3.5
¶600580006
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 14 46 23.5–2.0 38.21N–.05 141.96E–.10 28–14 20 1-58
IDC IV 07 14 46 16.7–4.0 38.31N 142.62E 0 4.0,3.9 ¶17200124
JMA IV 07 14 46 25.3–.10 38.25N 141.84E 57–3 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=68.7km s-min=39.7km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 14 47 22.2–1.4 38.26N–.04 142.03E–.08 59–11 4.3b 52 1-76
ISCJB IV 07 14 47 21.9–.76 38.29N–.04 141.97E–.08 70–5 4.2b ¶16577724
JMA IV 07 14 47 23.3–.10 38.30N 141.92E 58–4 4.8
IDC IV 07 14 47 25.1–2.5 38.26N 141.86E 80–22 4.3,4.1
NEIC IV 07 14 47 25.0–1.9 38.18N 141.83E 83–16 4.7b,4.1
ISC Event type se.

ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.5km az=14.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=15.3km az=80.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=12.6km az=66.0.

ISC	**IV**	**07 14 49 35.3–1.1**	**38.14N–.04**	**141.83E–.07**	**61–10**	**4.6b**	**79**	**1-150**
ISCJB	IV	07 14 49 34.6–.60	38.13N–.03	141.80E–.07	69–4	4.5b		**¶16506241**
JMA	IV	07 14 49 35.1–.10	38.14N	141.82E	59–3	4.6		
NEIC	IV	07 14 49 36.8–.72	38.12N	141.74E	74–7	4.6b		
IDC	IV	07 14 49 37.1–1.9	38.16N	141.74E	74–17	4.6,4.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.5km az=11.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.5km az=112.0. Recorded [3 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=13.6km s-min=9.9km az=106.0.

JMA	**IV**	**07 14 51 38.8–.10**	**38.38N**	**141.86E**	**60–3**	**4.2**		
								¶600580007

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**07 14 53 14.3–1.3**	**38.39N–.05**	**141.92E–.09**	**58–11**	**4.2b**	**49**	**1-146**
ISCJB	IV	07 14 53 13.3–.76	38.38N–.04	141.92E–.09	65–5	4.1b		**¶16506242**
JMA	IV	07 14 53 13.8–.20	38.36N	141.90E	59–4	4.6		
NEIC	IV	07 14 53 16.5–1.1	38.33N	141.85E	80–10	4.2b		
IDC	IV	07 14 53 17.0–2.6	38.39N	141.79E	81–23	4.2,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.7km az=16.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.2km az=64.0.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=82.0.

ISC	**IV**	**07 14 57 39.9–1.8**	**38.16N–.05**	**142.46E–.09**	**14**		**15**	**1-5**
JMA	IV	07 14 57 51.3–.10	38.47N	141.94E	58–2	3.6		**¶17200125**
IDC	IV	07 14 57 59.8–2.1	37.16N	142.89E	0	4.0b,3.9		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.4km s-min=24.2km az=70.0.

ISC	**IV**	**07 14 58 18.9–2.0**	**38.30N–.08**	**142.0E–.10**	**62–14**	**4.0b**	**17**	**1-46**
ISCJB	IV	07 14 58 18.5–1.4	38.32N–.06	141.9E–.10	74–7	4.0b		**¶17200126**
JMA	IV	07 14 58 19.5–.10	38.32N	141.89E	64–2	4.0		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=19.7km s-min=7.1km az=25.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**07 14 59 15.5–1.5**	**38.30N–.04**	**141.99E–.08**	**34–3**	**3.9b**	**27**	**1-58**
IDC	IV	07 14 59 07.5–2.6	38.60N	142.74E	0	4.0,4.0		**¶600580009**
JMA	IV	07 14 59 18.1–.10	38.40N	141.85E	51–3	3.9,4.0		

ISC Event type ke.
IDC Error ellipse: s-maj=65.4km s-min=24.5km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**07 15 01 04.2–1.0**	**38.25N–.05**	**141.96E–.08**	**61–9**	**3.9b**	**37**	**1-89**
ISCJB	IV	07 15 01 03.5–.81	38.28N–.04	141.89E–.09	70–6	3.9b		**¶17200127**
JMA	IV	07 15 01 04.4–.10	38.30N	141.87E	63–3	4.4		
IDC	IV	07 15 01 05.8–2.9	38.27N	141.86E	75–25	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.7km az=13.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=15.3km az=71.0.

ISC	**IV**	**07 15 06 48.3–.70**	**38.38N–.04**	**141.88E–.07**	**62–6**	**4.3b**	**87**	**1-146**
NEIC	IV	07 15 06 45.6–1.1	38.07N	142.37E	72–10	4.7b		**¶16455871**
ISCJB	IV	07 15 06 46.6–.63	38.38N–.03	141.96E–.06	62–4	4.3b		
JMA	IV	07 15 06 47.9–.10	38.38N	141.85E	64–2	4.3		
IDC	IV	07 15 06 48.6–.74	38.39N	141.79E	66–6	4.2,4.1		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=10.3km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.8km az=19.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=12.0km az=116.0.

ISC	**IV**	**07 15 14 55.7–1.7**	**36.60N–.05**	**141.14E–.07**	**15–11**	**4.2b**	**21**	**0-60**
ISCJB	IV	07 15 14 53.4–1.6	36.54N–.06	141.35E–.09	15–12	4.2b		**¶16577727**
JMA	IV	07 15 14 56.0–.10	36.58N	141.16E	32–2	3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=8.7km az=24.9.
JMA Event type fe.

ISC	**IV**	**07 15 14 57.5–1.4**	**38.21N–.06**	**141.87E–.08**	**52–12**	**3.9b**	**53**	**1-146**
IDC	IV	07 15 14 46.8–.72	37.49N	141.79E	0	4.1,3.9		**¶600580016**
NEIC	IV	07 15 14 51.5–.50	37.30N	141.75E	35	4.5b,3.9		
ISCJB	IV	07 15 14 57.8–.73	38.25N–.05	141.79E–.07	67–5	3.9b,3.9		
JMA	IV	07 15 14 58.3–.10	38.25N	141.81E	58–3	4.2,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=16.4km az=151.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.4km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.6km az=34.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**07 15 23 31.7–2.4**	**37.51N–.06**	**142.00E–.08**	**1–13**	**3.5b**	**18**	**1-58**
IDC	IV	07 15 23 30.7–2.5	37.46N	142.33E	0	3.7,3.7		**¶600580020**
JMA	IV	07 15 23 33.4–.10	37.52N	141.93E	15–2	3.5,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=58.5km s-min=27.4km az=72.0.

ISC	**IV**	**07 15 25 13.1–.62**	**38.17N–.04**	**141.87E–.05**	**64–5**	**4.4b**	**180**	**1-146**
MOS	IV	07 15 25 11.5–1.1	38.28N	141.90E	61	4.6b		**¶16424638**
ISCJB	IV	07 15 25 12.2–.45	38.20N–.03	141.88E–.04	72–3	4.3b		
IDC	IV	07 15 25 13.8–.72	38.22N	141.79E	67–6	4.3,4.2		
JMA	IV	07 15 25 13.2–.10	38.20N	141.85E	63–3	4.5,4.2		
NEIC	IV	07 15 25 14.3–.50	38.21N	141.84E	74–4	4.5b,4.2		

ISC Event type se.
MOS Error ellipse: s-maj=8.7km s-min=5.9km az=87.9.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=31.2.
IDC Error ellipse: s-maj=11.9km s-min=9.9km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=134.0.

ISC	**IV**	**07 15 31 29.3–.72**	**38.33N–.04**	**141.91E–.06**	**62–6**	**4.4b**	**79**	**1-89**
ISCJB	IV	07 15 31 27.9–.62	38.31N–.03	141.96E–.06	66–4	4.2b		**¶16577728**
NEIC	IV	07 15 31 27.4–.86	38.22N	142.25E	70–9	4.6b		
JMA	IV	07 15 31 29.3–.10	38.31N	141.90E	58–3	4.2		
IDC	IV	07 15 31 29.6–.76	38.27N	141.90E	65–7	4.0,3.9		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.7km az=18.4.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=8.0km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.2km s-min=12.6km az=122.0.

JMA	**IV**	**07 15 33 49.3–.10**	**38.41N**	**141.86E**	**55–2**	**3.5**		
								¶600580026

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**07 15 39 42.4–.10**	**38.42N**	**141.95E**	**56–2**	**3.5**		
								¶600580033

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**07 15 46 04.1–1.6**	**38.14N–.05**	**142.1E–.10**	**48–17**	**3.4b**	**23**	**1-62**
IDC	IV	07 15 45 55.4–2.1	38.34N	142.74E	0	3.6,3.6		**¶17200130**
ISCJB	IV	07 15 46 03.8–1.1	38.17N–.05	142.0E–.10	62–9	3.5b,3.6		
JMA	IV	07 15 46 05.7–.10	38.21N	141.90E	56–4	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=56.3km s-min=20.9km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=6.4km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**07 16 06 49.2–.10**	**38.31N**	**141.80E**	**53–2**	**3.5**		
								¶600580059
ISC	**IV**	**07 16 18 31.4–1.5**	**36.15N–.06**	**141.8E–.10**	**26**	**3.1b**	**13**	**1-56**
JMA	IV	07 16 18 24.0–.40	36.33N	142.37E	26	3.0		**¶17200132**
ISCJB	IV	07 16 18 28.6–1.6	36.14N–.06	142.0E–.20	26	3.4b		
IDC	IV	07 16 18 28.5–2.7	36.22N	141.67E	0	3.5,3.4		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=7.7km az=171.0.
IDC Error ellipse: s-maj=63.1km s-min=25.8km az=67.0.

JMA	**IV**	**07 16 25 01.8**	**38.24N**	**141.82E**	**54–2**	**3.5**		
								¶600580072
ISC	**IV**	**07 16 31 35.3–1.2**	**38.39N–.04**	**141.92E–.08**	**55–11**	**3.5b**	**38**	**1-146**
ISCJB	IV	07 16 31 34.6–.73	38.40N–.04	141.87E–.08	64–6	3.6b		**¶600580077**
JMA	IV	07 16 31 35.4–.10	38.41N	141.87E	52–3	3.9		
IDC	IV	07 16 31 36.9–2.5	38.40N	141.89E	71–23	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.3km az=17.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=15.2km az=87.0.

ISC	**IV**	**07 16 40 06.4–1.6**	**38.36N–.04**	**142.14E–.10**	**49–15**	**3.7b**	**37**	**1-89**
ISCJB	IV	07 16 40 06.4–.83	38.38N–.04	142.03E–.09	62–7	3.6b		**¶17200134**
JMA	IV	07 16 40 07.1–.10	38.41N	142.00E	57–3	4.0		
IDC	IV	07 16 40 09.0–2.6	38.30N	142.01E	75–25	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.8km az=14.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=15.6km az=92.0.

ISC	**IV**	**07 16 44 20.7–1.7**	**38.43N–.04**	**142.0E–.10**	**47–16**	**3.6b**	**26**	**1-59**
IDC	IV	07 16 44 11.8–2.6	38.62N	142.72E	0	3.6,3.6		**¶17200135**
ISCJB	IV	07 16 44 20.9–.97	38.43N–.04	141.9E–.10	60–9	3.4b,3.6		
JMA	IV	07 16 44 21.8–.10	38.44N	141.87E	56–3	3.7,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=62.1km s-min=27.2km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.4km az=15.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**IV**	**07 16 58 45.5–.30**	**36.63N**	**141.85E**	**47**	**2.5**		
								¶602945410

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**IV**	**07 17 11 46.3–.57**	**38.36N–.04**	**141.91E–.06**	**55–5**	**3.9b**	**62**	**1-146**
ISCJB	IV	07 17 11 45.4–.68	38.39N–.04	141.89E–.08	61–5	3.9b		**¶600580108**
JMA	IV	07 17 11 46.0–.10	38.39N	141.88E	53–2	4.2		
IDC	IV	07 17 11 46.3–.59	38.34N	141.77E	55–4	4.0,3.9		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=4.9km az=20.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.4km az=117.0.

ISC	**IV**	**07 17 19 00.3–4.0**	**37.5N–.20**	**141.8E–.30**	**21**	**3.2b**	**7**	**1-46**
IDC	IV	07 17 18 52.4–13	37.26N	142.43E	0	3.4b,3.3		**¶17200139**
JMA	IV	07 17 18 54.4–.40	37.31N	142.23E	16–4	3.2,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=245.3km s-min=64.1km az=131.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC	**IV**	**07 17 24 50.7–1.3**	**38.37N–.04**	**141.98E–.08**	**53–11**	**4.0b**	**47**	**1-146**
ISCJB	IV	07 17 24 50.6–.69	38.41N–.04	141.90E–.08	67–5	3.8b		**¶17200141**
JMA	IV	07 17 24 51.7–.10	38.42N	141.87E	57–3	4.2		
IDC	IV	07 17 24 52.7–2.4	38.42N	141.81E	68–22	3.9,3.7		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.1km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=13.4km az=102.0.

ISC	**IV**	**07 17 42 19.2–.73**	**38.20N–.04**	**141.93E–.06**	**68–6**	**4.0b**	**56**	**1-89**
ISCJB	IV	07 17 42 17.6–.63	38.23N–.03	141.94E–.07	69–4	3.9b		**¶16455875**
JMA	IV	07 17 42 18.7–.10	38.23N	141.91E	59–3	4.1		
IDC	IV	07 17 42 19.9–.71	38.18N	141.84E	74–7	4.1,3.9		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=4.8km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=11.5km az=127.0.

ISC	**IV**	**07 18 09 58.6–1.5**	**38.39N–.05**	**141.99E–.10**	**49–14**	**3.5b**	**27**	**1-62**
ISCJB	IV	07 18 09 58.1–.85	38.42N–.04	141.94E–.10	62–7	3.5b		**¶17200144**
JMA	IV	07 18 09 59.5–.10	38.43N	141.87E	52–3	4.0		
IDC	IV	07 18 09 59.2–3.0	38.42N	142.12E	57–28	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.9km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=17.2km az=92.0.

ISC	**IV**	**07 18 10 52.1–1.1**	**36.01N–.07**	**140.46E–.08**	**50**	**3.3b**	**15**	**0-60**
IDC	IV	07 18 10 43.2–2.9	36.15N	140.95E	0	3.7L,3.5		**¶17200145**
ISCJB	IV	07 18 10 50.3–.96	35.85N–.09	140.53E–.09	50	3.3b,3.5		
JMA	IV	07 18 10 52.4–.10	36.00N	140.39E	55–1	2.8,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=85.5km s-min=24.0km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=10.0km az=29.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**07 18 35 23.2–.87**	**38.29N–.04**	**141.77E–.07**	**54–8**	**3.7b**	**37**	**1-89**
ISCJB	IV	07 18 35 22.7–.71	38.30N–.04	141.68E–.09	67–6	3.6b		**¶17200147**
IDC	IV	07 18 35 23.5–.93	38.29N	141.66E	59–8	3.8,3.8		
JMA	IV	07 18 35 23.5–.10	38.30N	141.66E	59–2	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.6km az=8.8.
IDC Error ellipse: s-maj=20.3km s-min=15.0km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**07 18 52 03.8–1.6**	**36.14N–.05**	**141.10E–.09**	**20–11**	**3.5b**	**17**	**0-60**
ISCJB	IV	07 18 52 03.5–1.4	36.09N–.05	141.2E–.10	34–12	3.7b		**¶600580182**
JMA	IV	07 18 52 03.5–.10	36.07N	141.13E	40–1	3.6		
IDC	IV	07 18 52 09.1–3.6	35.68N	140.46E	40–31	3.5,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=7.5km az=169.6.
JMA Event type fe.
IDC Error ellipse: s-maj=37.8km s-min=18.8km az=72.0.

ISC	**IV**	**07 19 01 03.6–1.6**	**38.52N–.06**	**142.0E–.10**	**41**	**4.0b**	**10**	**1-62**
JMA	IV	07 19 01 01.7–.30	38.50N	142.09E	36	4.0		**¶17200150**
ISCJB	IV	07 19 01 02.2–1.2	38.50N–.06	142.1E–.10	41	3.9b		
IDC	IV	07 19 01 09.1–2.4	37.11N	140.42E	0	4.1,3.8		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=8.2km az=2.0.
IDC Error ellipse: s-maj=57.5km s-min=30.0km az=50.0.

ISC	**IV**	**07 19 11 12.3–.65**	**36.77N–.05**	**141.99E–.05**	**23–3**	**4.7b,4.3s**	**269**	**1-146**
NIED	IV	07 19 11 00	36.70N	142.20E	14	4.8W,4.3s		**¶600580201**
ISCJB	IV	07 19 11 08.9–.95	36.70N–.03	142.21E–.04	15–6	4.6b,4.4s		
JMA	IV	07 19 11 10.3–.30	36.72N	142.18E	29	4.5,4.4s		
BJI	IV	07 19 11 12.8	36.85N	141.68E	25	5.1b,4.9b		
MOS	IV	07 19 11 14.2–1.0	37.07N	141.96E	36	4.9b,4.2s		
NEIC	IV	07 19 11 14.6–.94	36.70N	142.04E	42–8	4.7b,4.2s		
IDC	IV	07 19 11 14.6–2.0	36.67N	142.06E	42–17	4.5,4.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ17.00000°,λ115.00000°. NP2:ϕ_s21.00000°,δ75.00000°,λ83.00000°. $M_0$1.65000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=33.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=111.6.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.1km az=117.0.
IDC Error ellipse: s-maj=12.9km s-min=10.2km az=119.0.

ISC	**IV**	**07 19 14 18.2–1.7**	**38.28N–.06**	**141.9E–.10**	**57–18**	**3.9b**	**20**	**1-62**
ISCJB	IV	07 19 14 17.6–1.1	38.28N–.05	141.8E–.10	71–11	3.8b		**¶17200154**
IDC	IV	07 19 14 17.3–2.5	37.16N	142.30E	0	4.0,3.9b		
JMA	IV	07 19 14 18.4–.10	38.27N	141.84E	59–3	4.1,3.9b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=18.6km s-min=7.4km az=13.8.
IDC Error ellipse: s-maj=66.7km s-min=26.3km az=60.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**07 19 34 00.0–2.0**	**38.36N–.04**	**142.25E–.07**	**13–11**	**3.9b**	**30**	**1-62**
JMA	IV	07 19 34 00.9–.40	38.41N	142.32E	32	4.0		**¶17200156**
IDC	IV	07 19 34 04.9–2.8	38.35N	142.18E	46–28	3.8,3.7		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=15.5km az=97.0.

ISC	**IV**	**07 19 43 00.1–1.8**	**38.22N–.05**	**142.0E–.10**	**46–18**	**3.5b**	**28**	**1-62**
IDC	IV	07 19 42 51.4–2.2	38.42N	142.70E	0	3.7,3.6		**¶17200158**

ISCJB IV 07 19 43 00.2–1.0 38.24N–.04 141.9E–.10 63–9 3.5b,3.6
JMA IV 07 19 43 01.5–.10 38.25N 141.85E 55–3 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=55.9km s-min=22.4km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=6.6km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 19 53 07.7–1.8 38.18N–.05 142.1E–.10 51–17 3.8b 29 1-62
IDC IV 07 19 53 06.3–7.6 38.29N 142.39E 49–51 3.8,3.7 **¶600580227**
ISCJB IV 07 19 53 07.5–1.1 38.21N–.04 142.0E–.10 64–8 3.7b,3.7
JMA IV 07 19 53 09.3–.10 38.23N 141.88E 63–3 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=103.3km s-min=18.5km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.7km az=9.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 20 15 36.6–1.3 36.43N–.06 141.75E–.09 19 3.6b 16 1-56
IDC IV 07 20 15 32.5–2.5 36.42N 142.16E 0 3.8,3.8 **¶17200162**
ISCJB IV 07 20 15 34.9–1.1 36.35N–.06 141.94E–.10 19 3.6b,3.8
JMA IV 07 20 15 38.1–.20 36.45N 141.79E 61–5 3.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=58.3km s-min=25.6km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=8.4km az=157.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 07 20 17 31.3–.62 36.44N–.07 141.6E–.10 35 4.3b 33 3-88
IDC IV 07 20 17 26.4–.80 36.48N 141.68E 0 4.1,4.0 **¶16705971**
ISCJB IV 07 20 17 29.5–.56 36.48N–.07 141.73E–.09 35 4.2b,4.0
NEIC IV 07 20 17 31.9–.51 36.57N 141.54E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=16.9km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=9.5km az=142.4.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.1km az=167.0.
ISC IV 07 20 17 36.8–1.8 37.57N–.05 141.60E–.09 31–12 4.0b 19 1-74
IDC IV 07 20 17 28.8–5.6 37.91N 142.07E 0 3.9,3.8 **¶17200163**
JMA IV 07 20 17 39.0–.10 37.51N 141.47E 42–1 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=106.0km s-min=53.2km az=1.0.
JMA Event type fe.
JMA IV 07 20 33 21.7–.30 38.10N 142.25E 12 3.5
¶600580258
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 07 20 41 00.3–2.0 38.23N–.05 142.1E–.10 51–17 3.8b 24 1-58
IDC IV 07 20 40 51.6–2.7 38.43N 142.74E 0 3.8,3.8b **¶16577737**
NEIC IV 07 20 40 57.2–1.6 38.43N 142.52E 35 4.1b,3.8b
ISCJB IV 07 20 41 01.3–1.3 38.29N–.05 141.9E–.10 68–8 3.7b,3.8b
JMA IV 07 20 41 01.8–.10 38.28N 141.91E 61–4 3.9,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=66.5km s-min=27.9km az=68.0.
NEIC Event type se. Error ellipse: s-maj=32.0km s-min=19.3km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=17.5km s-min=7.1km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 20 47 12.5–.48 37.07N–.04 141.24E–.05 51–4 4.2b,4.0s 144 0-147
NIED IV 07 20 47 00 37.10N 141.10E 56 4.5W,4.0s **¶602553054**
BJI IV 07 20 47 05.9 36.91N 141.28E 28 4.9b,4.8s
MOS IV 07 20 47 10.1–1.0 37.07N 141.08E 42 4.5b,4.8s
ISCJB IV 07 20 47 11.6–.43 37.08N–.03 141.18E–.05 58–3 4.3b,4.0s
JMA IV 07 20 47 12.9–.10 37.11N 141.10E 53–1 4.3,4.0s
IDC IV 07 20 47 13.3–.62 37.12N 141.00E 54–6 4.2,4.0
NEIC IV 07 20 47 15.2–.72 37.08N 141.04E 74–6 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ19.00000°,λ79.00000°. NP2:ϕ_s31.00000°,δ71.00000°,λ94.00000°. $M_0$5.56000×10^{15}
MOS Error ellipse: s-maj=9.4km s-min=5.6km az=94.1.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=23.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=8.5km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=95.0. Recorded [3 JMA] in Fukushima and Ibaraki.
JMA IV 07 21 34 49.3 35.85N 140.92E 14–1 2.6
¶600580306
ISC IV 07 21 42 52.0–1.5 38.39N–.05 142.07E–.10 56–12 3.8b 44 1-146
IDC IV 07 21 42 44.5–.71 38.35N 141.97E 0 4.5s,4.5 **¶16525087**
NEIC IV 07 21 42 50.0–.72 38.44N 142.23E 35 4.2b,4.5
ISCJB IV 07 21 42 51.7–.86 38.40N–.04 141.97E–.09 67–6 3.8b,4.5
JMA IV 07 21 42 52.8–.10 38.41N 141.91E 61–3 3.9,4.5
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=18.7km az=89.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=12.1km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.3km az=9.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 21 55 26.8–1.8 38.40N–.05 141.9E–.10 57–14 3.5b 23 1-58
IDC IV 07 21 55 16.8–2.6 38.64N 142.65E 0 4.1,4.1s **¶17200171**
ISCJB IV 07 21 55 26.5–1.2 38.40N–.05 141.9E–.10 68–9 3.4b,4.1s
JMA IV 07 21 55 26.8–.10 38.40N 141.91E 58–3 4.1,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=66.3km s-min=30.4km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=7.1km az=11.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 21 57 47.3–2.1 38.17N–.07 142.0E–.10 50–19 23 1-58
IDC IV 07 21 57 38.0–3.1 38.29N 142.65E 0 3.6,3.6b **¶17200172**
ISCJB IV 07 21 57 47.0–1.3 38.18N–.05 142.0E–.10 63–11 3.5b,3.6b
JMA IV 07 21 57 48.0–.10 38.18N 141.88E 56–3 3.9,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=33.8km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=17.9km s-min=7.0km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 22 02 18.2–.42 39.20N–.04 142.94E–.04 27–2 5.1b,4.9s 501 1-145
NIED IV 07 22 02 00 39.10N 143.00E 20 5.0W,4.9s **¶600580318**
IDC IV 07 22 02 13.7–.48 39.15N 142.98E 0 4.8,4.7
JMA IV 07 22 02 15.4–.20 39.10N 143.02E 8 5.0,4.7
ISCJB IV 07 22 02 16.0–.85 39.19N–.02 142.91E–.03 21–5 5.0b,4.8s
BJI IV 07 22 02 16.3 39.10N 142.90E 34 5.3b,5.1b
MOS IV 07 22 02 17.2–.91 39.31N 142.86E 27 5.4b,4.9s
NEIC IV 07 22 02 19.9–.61 39.14N 142.89E 41–5 5.1b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ20.00000°,λ53.00000°. NP2:ϕ_s30.00000°,δ74.00000°,λ102.00000°. $M_0$3.55000×10^{16}
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=43.0.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=107.2.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.7km az=124.0.
ISC IV 07 22 33 06.8–1.4 38.63N–.06 142.0E–.10 41 3.8b 23 1-73
IDC IV 07 22 32 58.5–2.5 38.79N 142.58E 0 3.8b,3.8 **¶16525089**
NEIC IV 07 22 33 03.4–.77 38.75N 142.59E 35 4.1b,3.8
ISCJB IV 07 22 33 04.9–.94 38.64N–.05 142.11E–.10 41 3.8b,3.8s
JMA IV 07 22 33 07.2–.10 38.62N 141.92E 50–4 3.7,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=66.4km s-min=26.8km az=73.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=10.2km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.1km az=14.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 07 23 07 09.2–1.4 38.43N–.06 141.8E–.10 57–12 3.8b,3.5s 33 1-85
IDC IV 07 23 07 03.8–2.2 38.81N 141.82E 0 3.9,3.8b **¶16525090**
ISCJB IV 07 23 07 08.1–.72 38.44N–.04 141.86E–.08 65–6 3.8b,3.8b
JMA IV 07 23 07 08.3–.10 38.45N 141.88E 57–4 3.8,3.8b
NEIC IV 07 23 07 09.7–.75 38.46N 141.91E 62–8 4.3b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=53.6km s-min=21.6km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.7km az=20.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=7.0km az=132.0.
ISC IV 07 23 07 49.2–.45 35.51N–.04 141.01E–.06 33 4.3b 87 0-148
IDC IV 07 23 07 44.4–.64 35.49N 140.84E 0 4.3,4.3L **¶16506244**
MOS IV 07 23 07 45.9–.98 35.48N 141.12E 26 4.5b,4.3L
ISCJB IV 07 23 07 47.3–.33 35.55N–.03 141.13E–.05 33 4.3b,3.6s
NEIC IV 07 23 07 48.3–1.6 35.49N 140.97E 28–11 4.6b,3.6s
JMA IV 07 23 07 48.6–.10 35.56N 141.04E 36–1 3.9,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.0km az=88.0.
MOS Error ellipse: s-maj=10.4km s-min=6.2km az=109.2.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=24.1.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.8km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 23 22 09.2–2.2 36.99N–.05 141.77E–.09 8–12 3.4b 21 1-57
IDC IV 07 23 22 07.2–2.6 37.05N 142.03E 0 3.6,3.6 **¶17200177**
JMA IV 07 23 22 13.2–.20 37.00N 141.58E 44–2 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=59.5km s-min=27.4km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 23 33 43.9–.80 38.69N–.07 142.75E–.07 23 3.9b 28 1-80
NIED IV 07 23 33 00 38.80N 142.80E 5 3.8W **¶600580390**
IDC IV 07 23 33 40.4–.86 38.70N 142.90E 0 3.9,3.8
ISCJB IV 07 23 33 42.2–.58 38.74N–.05 143.00E–.07 23 4.0b,3.8
JMA IV 07 23 33 42.0–.30 38.78N 142.81E 4 3.9,3.8
NEIC IV 07 23 33 46.4–1.2 38.79N 142.94E 40–10 4.0b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ32.00000°,λ-93.00000°. NP2:ϕ_s124.00000°,δ58.00000°,λ-88.00000°. $M_0$6.24000×10^{14}
IDC Error ellipse: s-maj=22.1km s-min=18.3km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=41.5.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=8.3km az=122.0.
ISC IV 07 23 39 26.7–.59 38.88N–.06 142.09E–.07 51 4.3b 72 1-81
ISCJB IV 07 23 39 25.8–.41 38.91N–.04 142.03E–.05 51 4.2b **¶602553049**
MOS IV 07 23 39 27.4–.91 38.92N 141.96E 69 4.4b
JMA IV 07 23 39 27.3–.20 38.91N 141.91E 55–3 4.1
IDC IV 07 23 39 29.6–.88 38.86N 141.90E 74–5 4.2,3.9
NEIC IV 07 23 39 31.1–.79 38.82N 141.87E 89–7 4.4b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.1km az=41.8.
MOS Error ellipse: s-maj=9.8km s-min=6.9km az=89.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=13.8km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.8km az=109.0. Recorded [3 JMA] in Iwate.
ISC IV 08 00 11 16.6–3.7 39.17N–.05 142.4E–.10 25–23 20 1-59
IDC IV 08 00 11 09.8–3.1 39.31N 143.12E 0 3.7,3.5 **¶17200179**
ISCJB IV 08 00 11 16.6–1.9 39.19N–.04 142.4E–.10 24–9 3.5b,3.5
JMA IV 08 00 11 16.5–.20 39.18N 142.37E 27–3 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=70.1km s-min=32.5km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=5.9km az=12.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 08 00 11 23.8–.20 37.34N 141.86E 32–4 2.9
¶600580409
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 08 00 23 48.8 36.83N 140.56E 7–1 2.9
¶600580415
ISC IV 08 00 28 51.6–1.5 38.38N–.05 142.08E–.09 51–13 4.2b 55 1-146
NIED IV 08 00 28 00 38.40N 142.00E 77 4.2W **¶16525093**
IDC IV 08 00 28 46.0–.78 38.72N 142.01E 0 4.3,4.2
ISCJB IV 08 00 28 52.0–.69 38.44N–.04 141.95E–.07 67–5 4.1b,4.2
JMA IV 08 00 28 52.2–.10 38.42N 141.98E 60–2 4.2,4.2
NEIC IV 08 00 28 54.2–.96 38.62N 141.90E 63–8 4.4b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ52.00000°,λ33.00000°. NP2:ϕ_s91.00000°,δ65.00000°,λ137.00000°. $M_0$2.08000×10^{15}
IDC Error ellipse: s-maj=21.3km s-min=15.7km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.6km az=21.2.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.4km az=138.0.
ISC IV 08 00 32 55.5–1.1 38.84N–.06 142.4E–.20 35–10 3.6b 23 1-59
JMA IV 08 00 32 53.8–.20 38.78N 142.43E 31–5 3.6 **¶17200181**
ISCJB IV 08 00 32 54.9–1.4 38.81N–.05 142.4E–.10 45–13 4.0s,3.6b
IDC IV 08 00 32 59.9–3.5 38.67N 142.29E 80–32 4.0s,4.0
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=8.3km az=4.2.
IDC Error ellipse: s-maj=27.1km s-min=22.1km az=88.0.
JMA IV 08 00 41 04.2–.20 36.64N 141.37E 47–2 2.7
¶600580425
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 01 12 05.7–.97 36.71N–.04 140.61E–.06 12–6 3.5b 20 0-78
IDC IV 08 01 12 04.1–1.2 36.63N 140.56E 0 3.6,3.4 **¶600580446**
ISCJB IV 08 01 12 05.3–.73 36.67N–.04 140.64E–.06 18–4 3.4b,3.4
JMA IV 08 01 12 06.2 36.71N 140.55E 12–1 3.7,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=29.3km s-min=22.6km az=13.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.6km az=26.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s329.00000°,δ49.00000°,λ-98.00000°. NP2:ϕ_s161.00000°,δ42.00000°,λ-81.00000°. Principal axes: T Plg4.0000°,Azm65.0000°; N Plg6.0000°,Azm335.0000°; P Plg83.0000°,Azm186.0000°
ISC IV 08 01 24 00.6–1.3 36.77N–.07 140.56E–.05 5–12 3.5b 20 0-57
ISCJB IV 08 01 23 59.9–1.1 36.65N–.05 140.77E–.07 12–4 3.5b **¶600580452**
IDC IV 08 01 23 59.6–1.8 36.86N 140.66E 0 3.6,3.5
JMA IV 08 01 24 01.6 36.70N 140.64E 6–1 3.1,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.7km az=37.4.
IDC Error ellipse: s-maj=37.2km s-min=23.8km az=69.0.
JMA Event type fe.
ISC IV 08 01 58 42.8–.72 36.30N–.04 141.83E–.07 32–4 3.8b 51 1-147
NIED IV 08 01 58 00 36.30N 141.80E 32 4.0W **¶16506247**
JMA IV 08 01 58 40.7–.20 36.32N 141.78E 73–4 3.8
ISCJB IV 08 01 58 41.0–.99 36.28N–.03 141.89E–.08 36–8 3.9b,3.3s
NEIC IV 08 01 58 41.8–4.2 36.22N 141.87E 28–29 4.3b,3.3s
IDC IV 08 01 58 42.4–.71 36.20N 141.91E 30–4 3.9L,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ47.00000°,λ-154.00000°. NP2:ϕ_s163.00000°,δ72.00000°,λ-46.00000°. $M_0$1.20000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=5.7km az=179.4.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.9km az=91.0.
IDC Error ellipse: s-maj=16.9km s-min=13.3km az=101.0.
JMA IV 08 02 03 20.2–.10 38.35N 141.94E 57–3 3.5
¶600580484
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 02 18 52.8–.80 36.33N–.06 141.76E–.08 19 3.5b 23 1-78
ISCJB IV 08 02 18 50.7–.67 36.38N–.06 141.81E–.07 19 3.6s,3.5b **¶17200187**
JMA IV 08 02 18 51.5–.20 36.35N 141.76E 67–5 3.4,3.5b
IDC IV 08 02 18 55.7–1.2 36.57N 141.84E 34–6 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.0km az=37.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=21.3km az=176.0.
ISC IV 08 02 21 07.8–1.2 38.27N–.05 141.97E–.09 57–10 4.3b,3.0s 58 1-89
NIED IV 08 02 21 00 38.30N 141.90E 68 4.1W,3.0s **¶16506248**
NEIC IV 08 02 21 06.3–.78 38.29N 141.91E 40–7 4.5b,3.0s
ISCJB IV 08 02 21 07.9–.78 38.30N–.04 141.87E–.09 71–5 4.0b,3.0s
JMA IV 08 02 21 08.7–.10 38.31N 141.88E 60–2 4.2,3.0s
IDC IV 08 02 21 10.2–2.6 38.31N 141.88E 75–23 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s248.00000°,δ71.00000°,λ80.00000°. $M_0$1.47000×10^{15}

NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.8km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.7km az=16.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=13.0km az=103.0.
ISC IV 08 02 24 38.7–2.2 38.24N–.07 142.0E–.10 57–15 3.7b 24 1-46
IDC IV 08 02 24 34.5–22 38.27N 142.60E 49–93 3.7,3.6 **¶17200188**
JMA IV 08 02 24 38.9–.10 38.25N 141.89E 62–3 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=282.1km s-min=57.5km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 02 26 09.0–2.8 37.3N–.10 141.3E–.20 35 3.4b 10 0-46
IDC IV 08 02 25 53.2–10 37.18N 143.39E 0 3.5,3.5 **¶17200189**
JMA IV 08 02 26 06.1–.10 37.27N 141.51E 27–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=187.7km s-min=64.2km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 08 02 39 43.6–.10 38.42N 141.85E 56–3 3.4
¶600580499
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 02 41 21.0–2.1 37.33N–.05 141.46E–.08 12–12 3.6b 19 0-64
NIED IV 08 02 41 00 37.30N 141.40E 74 3.9W **¶17200193**
ISCJB IV 08 02 41 19.9–1.6 37.33N–.05 141.60E–.09 17–10 3.6b
JMA IV 08 02 41 22.5–.20 37.33N 141.43E 30–2 3.6
IDC IV 08 02 41 29.4–4.0 37.29N 141.35E 82–36 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ58.00000°,λ17.00000°. NP2:ϕ_s60.00000°,δ76.00000°,λ147.00000°. $M_0$9.19000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.4km az=12.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=34.9km s-min=20.8km az=86.0.
ISC IV 08 02 57 20.5–.57 36.83N–.03 141.19E–.04 45–4 4.8b,4.0s 358 0-155
NIED IV 08 02 57 00 36.80N 141.20E 47 4.8W,4.0s **¶16414243**
MOS IV 08 02 57 17.2–1.0 36.86N 141.08E 26 5.0b,4.0s
BJI IV 08 02 57 17.6 36.72N 141.17E 37 5.0b,4.7b
NEIC IV 08 02 57 20.6–.58 36.79N 141.03E 40–5 4.9b,4.7b
ISCJB IV 08 02 57 20.1–.35 36.79N–.02 141.10E–.03 51–2 4.8b,4.0s
JMA IV 08 02 57 20.1–.10 36.77N 141.17E 44–1 4.7,4.0s
IDC IV 08 02 57 24.2–1.6 36.79N 141.08E 75–13 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ16.00000°,λ160.00000°. NP2:ϕ_s246.00000°,δ85.00000°,λ75.00000°. $M_0$1.52000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=102.2.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.0km az=115.0. Recorded [3 JMA] in Fukushima and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=40.3.
JMA Event type fe.
IDC Error ellipse: s-maj=11.5km s-min=8.6km az=96.0.
ISC IV 08 03 00 05.7–.58 37.15N–.05 141.22E–.07 46–3 3.9b 46 0-147
NIED IV 08 03 00 00 37.10N 141.10E 53 4.3W **¶17200194**
ISCJB IV 08 03 00 05.0–.76 37.15N–.05 141.18E–.09 55–4 3.9b
JMA IV 08 03 00 05.8–.10 37.10N 141.13E 52–1 4.1
IDC IV 08 03 00 08.1–.63 37.61N 141.01E 46–3 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ14.00000°,λ152.00000°. NP2:ϕ_s19.00000°,δ84.00000°,λ78.00000°. $M_0$2.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=7.3km az=12.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=8.7km az=148.0.
JMA IV 08 03 16 09.3–.10 38.28N 141.79E 55–4 3.5
¶600580508
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 03 28 10.7–2.2 38.31N–.05 142.0E–.10 51–17 3.3b 21 1-58
IDC IV 08 03 27 56.0–2.9 38.37N 143.36E 0 3.6,3.5 **¶17200196**
JMA IV 08 03 28 10.7–.10 38.30N 141.91E 59–4 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=30.6km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 08 03 34 10.1–.10 38.39N 141.92E 58–2 3.7
¶600580518
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 08 03 48 36.1–.10 38.38N 141.78E 57–3 3.5
¶17200197
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 03 50 05.4–1.0 39.1N–.10 142.35E–.07 27 3.8b 21 1-76
NIED IV 08 03 50 00 39.20N 142.40E 32 4.0W **¶17200198**
ISCJB IV 08 03 50 04.1–.94 39.2N–.10 142.43E–.07 27 3.6b
JMA IV 08 03 50 04.4–.30 39.19N 142.38E 11 4.1
IDC IV 08 03 50 05.2–3.2 38.99N 142.38E 29–5 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s304.00000°,δ43.00000°,λ-154.00000°. NP2:ϕ_s194.00000°,δ73.00000°,λ-50.00000°. $M_0$1.29000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=19.3km s-min=6.8km az=167.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=82.2km s-min=19.5km az=177.0.
ISC IV 08 04 01 17.9–.66 38.61N–.07 142.86E–.07 23 3.6b 30 1-88
NIED IV 08 04 01 00 38.60N 142.80E 26 3.8W **¶17200199**
ISCJB IV 08 04 01 16.3–.61 38.58N–.06 142.91E–.06 23 3.5b
JMA IV 08 04 01 16.2–.40 38.59N 142.83E 14–5 3.8
IDC IV 08 04 01 18.7–.73 38.47N 143.05E 30–4 3.6,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ47.00000°,λ12.00000°. NP2:ϕ_s154.00000°,δ81.00000°,λ137.00000°. $M_0$4.88000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.9km az=157.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=15.6km az=124.0.
JMA IV 08 05 11 00.0–.20 38.26N 142.13E 32–2 3.9
¶600580597
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 06 14 32.5–1.8 38.20N–.07 141.9E–.10 60–14 3.9b 19 1-146
IDC IV 08 06 14 21.9–2.5 38.57N 143.07E 0 4.1,3.9 **¶600580646**
ISCJB IV 08 06 14 32.5–1.1 38.21N–.06 141.8E–.10 67–8 3.9b,3.9
JMA IV 08 06 14 33.9 38.23N 141.81E 57–1 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=90.7km s-min=24.7km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=17.7km s-min=9.3km az=8.0.
JMA Event type fe.
ISC IV 08 06 31 11.4–1.6 38.24N–.05 141.9E–.10 60–11 3.7b 24 0-58
IDC IV 08 06 30 54.0–2.6 37.70N 143.27E 0 3.6,3.5 **¶17200206**
ISCJB IV 08 06 31 11.2–1.0 38.26N–.04 141.8E–.10 66–7 3.5b,3.5
JMA IV 08 06 31 12.4–.10 38.27N 141.77E 57–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.7km s-min=31.1km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=6.1km az=19.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 08 06 37 00.4–1.2 38.83N–.07 142.45E–.10 27 3.7b,3.6s 20 1-76
IDC IV 08 06 36 55.9–1.4 38.82N 142.66E 0 3.8,3.7b **¶17200208**
ISCJB IV 08 06 36 58.9–.87 38.84N–.05 142.55E–.08 27 3.7s,3.6b
JMA IV 08 06 37 00.8–.30 38.82N 142.39E 30–5 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=26.4km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.0km az=162.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA IV 08 06 37 43.8–.40 38.36N 142.11E 41 3.6
¶600580672
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 08 07 04 31.2–.98 36.69N–.04 140.64E–.06 12–6 3.6b 24 0-57
IDC IV 08 07 04 29.6–1.3 36.65N 140.70E 0 3.7,3.5 **¶600580686**
ISCJB IV 08 07 04 30.2–.86 36.66N–.04 140.77E–.06 12–4 3.5b,3.5
JMA IV 08 07 04 31.9 36.71N 140.63E 5–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=22.6km az=136.0.

ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.8km az=31.6.
JMA Event type fe.
ISC IV 08 07 21 38.3–2.4 39.58N–.05 142.8E–.10 24–15 3.4b 20 1-63
IDC IV 08 07 21 31.4–1.1 39.50N 143.52E 0 3.5,3.3 **¶600580708**
ISCJB IV 08 07 21 38.8–1.6 39.60N–.05 142.80E–.09 31–10 3.3b,3.3
JMA IV 08 07 21 38.6–.20 39.62N 142.79E 26–2 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=23.7km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.8km az=15.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 07 42 27.1–1.3 38.26N–.06 141.97E–.10 61–11 3.8b 37 1-89
NIED IV 08 07 42 00 38.20N 141.90E 59 3.9W **¶17200219**
ISCJB IV 08 07 42 26.4–.77 38.25N–.04 141.91E–.10 72–5 3.7b
JMA IV 08 07 42 27.6–.10 38.25N 141.86E 64–1 3.8
IDC IV 08 07 42 29.7–2.8 38.25N 141.83E 87–25 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ44.00000°,λ112.00000°. NP2:ϕ_s145.00000°,δ50.00000°,λ70.00000°. $M_0$7.51000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.3km az=18.9.
JMA Event type fe.
IDC Error ellipse: s-maj=19.9km s-min=16.3km az=83.0.
JMA IV 08 08 03 25.7–.10 38.84N 142.09E 40–2 3.8
NIED IV 08 08 03 00 38.80N 142.10E 53 4.1W **¶600580730**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ73.00000°,λ-4.00000°. NP2:ϕ_s320.00000°,δ86.00000°,λ-163.00000°. $M_0$1.46000×10^{15}
ISC IV 08 09 20 05.3–2.6 37.72N–.05 141.92E–.10 1–15 3.5b 18 1-62
IDC IV 08 09 20 04.2–2.5 37.79N 142.22E 0 3.6,3.5b **¶17200227**
JMA IV 08 09 20 10.3–.10 37.74N 141.82E 36–3 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=64.5km s-min=32.6km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 09 36 47.9–.93 38.40N–.04 142.22E–.08 41 3.7b,3.2s 27 1-80
NIED IV 08 09 36 00 38.40N 142.30E 17 3.8W,3.2s **¶600580776**
IDC IV 08 09 36 42.9–.97 38.26N 142.59E 0 3.8,3.7
JMA IV 08 09 36 45.3–.30 38.42N 142.27E 32–4 4.0,3.7
ISCJB IV 08 09 36 46.5–.66 38.41N–.04 142.20E–.07 41 3.7b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ12.00000°,λ-135.00000°. NP2:ϕ_s293.00000°,δ82.00000°,λ-82.00000°. $M_0$5.04000×10^{14}
ISCJB Event type ke.
ISC IV 08 10 33 14.6–.64 36.71N–.05 141.01E–.07 32 3.7b 22 0-147
NIED IV 08 10 33 00 36.90N 141.10E 50 3.8W **¶17200233**
JMA IV 08 10 33 16.9–.10 36.88N 141.06E 50–1 3.8
IDC IV 08 10 33 17.5–2.2 36.77N 141.12E 57–23 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ32.00000°,λ-99.00000°. NP2:ϕ_s193.00000°,δ59.00000°,λ-85.00000°. $M_0$6.63000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=13.0km az=80.0.
ISC IV 08 10 57 01.0–.64 36.08N–.06 141.48E–.07 26 3.8b 26 1-91
ISCJB IV 08 10 56 58.3–.55 36.05N–.05 141.69E–.06 26 3.8b,3.3s **¶17200235**
NIED IV 08 10 57 00 36.10N 141.40E 35 4.0W,3.3s
JMA IV 08 10 57 02.2–.10 36.07N 141.41E 53–2 3.9,3.3s
IDC IV 08 10 57 03.5–.72 36.04N 141.51E 53–7 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.4km az=36.2.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s93.00000°,δ33.00000°,λ-122.00000°. NP2:ϕ_s310.00000°,δ62.00000°,λ-71.00000°. $M_0$1.00000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=13.6km az=105.0.
ISC IV 08 11 07 20.6–1.2 38.31N–.05 141.9E–.10 47–11 3.5b 26 0-89
NIED IV 08 11 07 00 38.40N 141.80E 62 3.7W **¶600580850**
ISCJB IV 08 11 07 20.4–.91 38.34N–.05 141.9E–.10 61–7 3.6b
JMA IV 08 11 07 21.9–.10 38.39N 141.76E 58–1 3.7
IDC IV 08 11 07 22.6–2.9 38.24N 141.80E 68–27 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s360.00000°,δ32.00000°,λ104.00000°. NP2:ϕ_s163.00000°,δ59.00000°,λ82.00000°. $M_0$3.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=7.0km az=12.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=30.1km s-min=17.6km az=90.0.
ISC IV 08 11 09 16.0–1.8 38.27N–.05 142.1E–.10 56–14 4.1b 37 1-73
IDC IV 08 11 09 06.2–1.9 38.51N 142.79E 0 4.1,4.1b **¶16577750**
NEIC IV 08 11 09 11.6–.55 38.53N 142.65E 35 4.0b,4.1b
ISCJB IV 08 11 09 16.0–1.0 38.30N–.04 142.0E–.10 69–6 4.0b,4.1b
JMA IV 08 11 09 17.5–.10 38.32N 141.89E 63–1 4.0,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=52.6km s-min=20.4km az=63.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.2km az=10.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 11 53 02.5–2.2 38.53N–.05 142.24E–.09 25–15 3.5b 21 1-62
IDC IV 08 11 52 59.3–1.1 38.32N 142.86E 0 3.7,3.6 **¶17200242**
NIED IV 08 11 53 00 38.60N 142.10E 56 3.8W,3.6
ISCJB IV 08 11 53 01.7–1.5 38.50N–.05 142.26E–.08 28–9 3.5b,3.6
JMA IV 08 11 53 04.3–.20 38.57N 142.11E 34–2 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=19.9km az=110.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ47.00000°,λ131.00000°. NP2:ϕ_s223.00000°,δ57.00000°,λ55.00000°. $M_0$5.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.9km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 12 37 49.3–.81 35.38N–.05 141.14E–.08 33 4.0b 26 0-70
ISCJB IV 08 12 37 47.5–.63 35.44N–.05 141.26E–.08 33 3.8b,3.0s **¶17200245**
JMA IV 08 12 37 48.3–.10 35.41N 141.19E 26–2 3.4,3.0s
IDC IV 08 12 37 50.5–3.1 35.40N 141.19E 40–26 3.8,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.0km az=3.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=31.9km s-min=15.2km az=77.0.
ISC IV 08 12 58 26.6–1.4 38.36N–.05 141.9E–.10 51–12 3.7b 32 0-62
NIED IV 08 12 58 00 38.40N 141.80E 74 3.8W **¶17200247**
ISCJB IV 08 12 58 26.0–.83 38.38N–.04 141.85E–.09 64–6 3.6b
JMA IV 08 12 58 27.2–.10 38.40N 141.78E 58–1 3.9
IDC IV 08 12 58 28.9–2.8 38.29N 141.75E 75–25 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ29.00000°,λ101.00000°. NP2:ϕ_s235.00000°,δ62.00000°,λ84.00000°. $M_0$6.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.8km az=10.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=15.7km az=83.0.
JMA IV 08 13 19 22.4–.20 38.43N 142.23E 35–3 3.5
¶600580924
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 14 55 53.3–2.5 37.23N–.06 141.78E–.09 16–12 3.6b 18 1-57
NIED IV 08 14 55 00 37.30N 141.80E 5 3.5W **¶17200253**
IDC IV 08 14 55 50.9–2.5 37.10N 141.90E 0 3.6,3.6b
ISCJB IV 08 14 55 52.2–1.9 37.22N–.05 141.9E–.10 20–11 3.6b,3.6b
JMA IV 08 14 55 54.2–.20 37.30N 141.79E 26–3 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ49.00000°,λ-55.00000°. NP2:ϕ_s210.00000°,δ52.00000°,λ-123.00000°. $M_0$1.85000×10^{14}
IDC Error ellipse: s-maj=63.7km s-min=30.6km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=8.7km az=4.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 08 14 59 37.9 36.77N 140.57E 9–1 2.5
¶600581027
ISC IV 08 15 02 11.3–2.2 38.99N–.05 142.4E–.10 17–14 3.6b 18 1-59
NIED IV 08 15 02 00 39.00N 142.30E 38 4.0W **¶17200254**
IDC IV 08 15 02 06.8–2.7 39.12N 142.94E 0 3.5,3.4b

ISCJB IV 08 15 02 11.6–1.6 38.95N–.05 142.5E–.10 25–8 3.4b,3.4b
JMA IV 08 15 02 13.9–.10 39.00N 142.34E 35–2 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S2.00000°,δ12.00000°,λ144.00000°. NP2:ϕ_S127.00000°,δ83.00000°,λ81.00000°. $M_0$9.87000×10^{14}
IDC Error ellipse: s-maj=70.9km s-min=30.5km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.4km az=10.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 08 15 05 14.5–.10 36.95N 141.05E 50–1 3.7
NIED IV 08 15 05 00 37.00N 141.10E 35 3.8W **¶600581032**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S60.00000°,δ30.00000°,λ-122.00000°. NP2:ϕ_S276.00000°,δ65.00000°,λ-73.00000°. $M_0$6.63000×10^{14}
ISC IV 08 15 39 39.3–1.0 36.86N–.04 141.14E–.08 43–9 4.0b,3.1s 43 0-147
NIED IV 08 15 39 00 36.90N 141.10E 50 4.2W,3.1s **¶602553058**
ISCJB IV 08 15 39 38.7–.63 36.84N–.04 141.14E–.07 51–4 4.0b,3.0s
JMA IV 08 15 39 39.9–.10 36.88N 141.07E 50–1 4.2,3.0s
IDC IV 08 15 39 42.0–1.8 36.78N 140.96E 69–17 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S356.00000°,δ15.00000°,λ-108.00000°. NP2:ϕ_S195.00000°,δ76.00000°,λ-85.00000°. $M_0$2.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.7km az=17.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=10.2km az=90.0.
JMA IV 08 15 50 20.7–.30 38.25N 142.25E 41–4 3.5
NIED IV 08 15 50 00 38.20N 142.30E 32 3.7W **¶600581065**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S30.00000°,δ76.00000°,λ-170.00000°. NP2:ϕ_S298.00000°,δ80.00000°,λ-14.00000°. $M_0$3.66000×10^{14}
ISC IV 08 16 28 01.8–2.8 38.18N–.05 142.5E–.10 7–13 3.5b 23 1-62
NIED IV 08 16 28 00 38.20N 142.60E 20 3.6W **¶17200262**
JMA IV 08 16 28 00.6–.30 38.16N 142.64E 12–3 3.9
IDC IV 08 16 28 06.2–2.3 38.50N 141.76E 0 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S295.00000°,δ79.00000°,λ172.00000°. NP2:ϕ_S27.00000°,δ82.00000°,λ11.00000°. $M_0$2.65000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=65.1km s-min=26.2km az=65.0.
ISC IV 08 16 47 26.6–2.1 39.07N–.05 142.46E–.08 17–12 3.4b 22 1-63
ISCJB IV 08 16 47 26.2–1.4 39.05N–.04 142.49E–.08 25–8 3.4b,2.9s **¶17200263**
JMA IV 08 16 47 28.5–.20 39.08N 142.36E 33–2 3.3,2.9s
IDC IV 08 16 47 31.9–4.9 38.99N 142.36E 63–44 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.1km az=8.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.5km s-min=21.6km az=84.0.
ISC IV 08 17 00 38.7–1.5 38.27N–.05 142.2E–.10 54–13 3.7b 41 1-46
NIED IV 08 17 00 00 38.30N 141.90E 56 3.8W **¶16577758**
IDC IV 08 17 00 30.6–3.9 38.54N 142.51E 0 4.1,4.0
NEIC IV 08 17 00 35.3–.96 38.47N 142.55E 35 4.1b,4.0
ISCJB IV 08 17 00 38.5–.92 38.24N–.03 142.06E–.10 70–6 3.8b,4.0
JMA IV 08 17 00 41.3–.10 38.31N 141.88E 65–1 3.6,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S169.00000°,δ73.00000°,λ-17.00000°. NP2:ϕ_S264.00000°,δ74.00000°,λ-162.00000°. $M_0$5.29000×10^{14}
IDC Error ellipse: s-maj=80.5km s-min=26.4km az=83.0.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=7.2km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=5.7km az=175.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 17 47 10.3–1.3 38.09N–.08 142.77E–.10 18 3.5b 17 1-62
NIED IV 08 17 47 00 38.30N 142.80E 5 3.7W **¶17200266**
IDC IV 08 17 47 06.9–1.3 38.08N 143.11E 0 3.6,3.5
ISCJB IV 08 17 47 08.7–.88 38.10N–.06 142.93E–.09 18 3.5b,3.5
JMA IV 08 17 47 09.0–.40 38.26N 142.77E 0 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S282.00000°,δ10.00000°,λ-141.00000°. NP2:ϕ_S154.00000°,δ84.00000°,λ-82.00000°. $M_0$3.85000×10^{14}
IDC Error ellipse: s-maj=38.5km s-min=21.2km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.9km az=170.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 08 17 49 30.2–1.4 35.45N–.08 141.26E–.10 25 3.3b 13 0-59
IDC IV 08 17 49 23.9–2.8 35.70N 142.03E 0 3.4,3.3b **¶17200267**
ISCJB IV 08 17 49 28.1–1.0 35.40N–.08 141.41E–.10 25 3.3b,3.3b
JMA IV 08 17 49 29.4–.20 35.43N 141.25E 17–2 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=89.2km s-min=23.9km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=9.1km az=137.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 18 01 18.9–1.1 35.95N–.06 141.80E–.10 23 3.5b 12 3-66
IDC IV 08 18 01 15.4–1.1 36.16N 142.19E 0 3.7,3.7 **¶17200271**
ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=18.3km az=86.0.
ISC IV 08 18 53 32.1–1.0 36.96N–.03 140.48E–.04 9–7 4.1b 75 0-147
NIED IV 08 18 53 00 36.90N 140.50E 5 4.0W **¶600581198**
IDC IV 08 18 53 31.2–.65 37.00N 140.45E 0 4.0,3.9
ISCJB IV 08 18 53 32.3–.38 36.94N–.02 140.60E–.04 24–2 4.1b,3.9
JMA IV 08 18 53 32.6 36.94N 140.54E 5–2 3.9,3.9
NEIC IV 08 18 53 37.0–.82 36.91N 140.48E 46–8 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S196.00000°,δ25.00000°,λ-114.00000°. NP2:ϕ_S42.00000°,δ67.00000°,λ-79.00000°. $M_0$9.81000×10^{14}
IDC Error ellipse: s-maj=16.6km s-min=14.6km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=22.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S41.00000°,δ68.00000°,λ-81.00000°. NP2:ϕ_S198.00000°,δ24.00000°,λ-111.00000°. Principal axes: T Plg22.0000°,Azm124.0000°; N Plg8.0000°,Azm217.0000°; P Plg66.0000°,Azm327.0000°
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.2km az=74.0.
ISC IV 08 18 56 56.4–.56 36.16N–.04 140.06E–.04 55–5 4.1b 87 0-92
NIED IV 08 18 56 00 36.20N 140.00E 56 4.2W **¶16415749**
ISCJB IV 08 18 56 55.1–.36 36.15N–.03 140.09E–.05 62–3 4.1b
NEIC IV 08 18 56 56.5–.61 36.12N 140.07E 59–5 4.6b
JMA IV 08 18 56 56.6–.10 36.19N 140.01E 52–1 4.1
IDC IV 08 18 56 56.4–.71 36.13N 140.04E 55–6 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S277.00000°,δ35.00000°,λ140.00000°. NP2:ϕ_S41.00000°,δ68.00000°,λ62.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=11.5.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.5km az=84.0. Recorded [3 JMA] in Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_S62.00000°,δ73.00000°,λ91.00000°. NP2: ϕ_S239.00000°,δ17.00000°,λ87.00000°. Principal axes: T Plg62.0000°,Azm333.0000°; N Plg1.0000°,Azm241.0000°; P Plg28.0000°,Azm151.0000°
IDC Error ellipse: s-maj=14.5km s-min=11.9km az=91.0.
JMA IV 08 19 04 45.7 36.88N 140.65E 5–1 2.5 ¶600581204
ISC IV 08 19 06 55.3–1.7 37.25N–.04 141.65E–.06 5–10 3.9b 67 1-90
NIED IV 08 19 06 00 37.30N 141.70E 11 3.8W **¶16577764**
IDC IV 08 19 06 54.8–.68 37.23N 141.59E 0 4.0,3.8
ISCJB IV 08 19 06 55.8–.93 37.23N–.03 141.70E–.05 20–6 3.9b,3.8
JMA IV 08 19 06 56.9–.10 37.26N 141.65E 27–1 4.2,3.8
NEIC IV 08 19 06 59.2–2.0 37.22N 141.63E 30–14 4.7b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S60.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_S223.00000°,δ47.00000°,λ-101.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=15.0km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=16.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.0km az=113.0.
ISC IV 08 19 23 54.7–3.1 37.26N–.05 141.94E–.09 23–22 3.3b 23 1-57
IDC IV 08 19 23 50.7–1.5 37.25N 142.29E 0 3.5,3.3 **¶17200276**
ISCJB IV 08 19 23 54.3–1.8 37.29N–.05 142.0E–.10 20–11 3.2b,3.3
JMA IV 08 19 23 57.6–.20 37.26N 141.79E 42–3 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=25.2km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=8.2km az=6.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 19 28 45.4–1.0 36.94N–.03 140.55E–.04 10–8 3.4b 21 0-64
IDC IV 08 19 28 44.0–1.6 36.84N 140.58E 0 3.6,3.3 **¶17200277**
ISCJB IV 08 19 28 45.0–.55 36.92N–.03 140.60E–.05 16–7 3.4b,3.3
JMA IV 08 19 28 45.2 36.94N 140.54E 4–1 2.8,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=33.5km s-min=26.5km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=27.5.
JMA IV 08 19 46 44.9 35.89N 140.40E 16–1 1.2 ¶602945411
JMA IV 08 20 32 21.1–.10 36.22N 141.07E 45–2 2.1 ¶602945412
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 08 20 38 15.7–2.2 38.34N–.05 142.36E–.08 13–11 3.9b 44 1-68
NIED IV 08 20 38 00 38.40N 142.30E 35 3.8W **¶16577768**
IDC IV 08 20 38 12.8–2.1 38.31N 142.59E 0 3.8,3.8
ISCJB IV 08 20 38 16.3–1.4 38.32N–.04 142.40E–.06 30–9 3.8b,3.8
NEIC IV 08 20 38 16.9–.99 38.25N 142.69E 35 4.1b,3.8
JMA IV 08 20 38 17.6–.20 38.36N 142.29E 36–3 3.6,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S85.00000°,δ49.00000°,λ-128.00000°. NP2:ϕ_S315.00000°,δ53.00000°,λ-54.00000°. $M_0$5.59000×10^{14}
IDC Error ellipse: s-maj=48.4km s-min=23.4km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.5km az=20.9.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=9.4km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 21 16 09.9–1.5 36.88N–.04 141.20E–.10 38–2 3.2b 20 0-57
IDC IV 08 21 16 03.7–2.3 36.87N 141.46E 0 3.4,3.3 **¶17200286**
ISCJB IV 08 21 16 08.9–1.0 36.85N–.04 141.2E–.10 46–7 3.1b,3.3
JMA IV 08 21 16 10.6–.10 36.90N 141.06E 50–1 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=52.2km s-min=22.5km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.8km az=6.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 08 22 09 18.4–2.2 37.22N–.06 141.70E–.09 13–11 20 1-57
NIED IV 08 22 09 00 37.20N 141.40E 50 3.4W **¶17200289**
IDC IV 08 22 09 15.1–2.5 37.38N 141.98E 0 3.5,3.3b
ISCJB IV 08 22 09 20.7–1.6 37.17N–.05 141.62E–.10 32–7 3.3b,3.3b
JMA IV 08 22 09 23.2–.10 37.20N 141.41E 47–1 3.7,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S267.00000°,δ10.00000°,λ-7.00000°. NP2:ϕ_S4.00000°,δ89.00000°,λ-100.00000°. $M_0$1.55000×10^{14}
IDC Error ellipse: s-maj=48.5km s-min=36.0km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=8.4km az=177.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 22 29 44.2–.98 36.12N–.05 141.88E–.08 23 3.9b 28 1-79
NIED IV 08 22 29 00 36.20N 141.80E 23 3.8W **¶16509627**
IDC IV 08 22 29 40.2–1.8 36.14N 142.08E 0 3.9,3.9L
ISCJB IV 08 22 29 42.2–.71 36.16N–.05 142.00E–.07 23 3.9b,3.6s
JMA IV 08 22 29 44.8–.20 36.18N 141.80E 62–4 3.5,3.6s
NEIC IV 08 22 29 46.1–.63 36.05N 141.82E 35 4.0b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S196.00000°,δ30.00000°,λ100.00000°. NP2:ϕ_S5.00000°,δ60.00000°,λ84.00000°. $M_0$5.87000×10^{14}
IDC Error ellipse: s-maj=50.1km s-min=21.6km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=23.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=10.5km az=57.0.
ISC IV 08 23 50 34.3–.98 35.76N–.06 141.78E–.08 23 3.6b 16 1-65
NIED IV 08 23 50 00 35.80N 141.80E 32 3.6W **¶17200293**
IDC IV 08 23 50 30.6–.98 35.68N 141.93E 0 3.7,3.5
ISCJB IV 08 23 50 32.4–.78 35.81N–.06 141.87E–.07 23 3.7s,3.6b
JMA IV 08 23 50 33.7–.20 35.83N 141.77E 21–3 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S26.00000°,δ58.00000°,λ2.00000°. NP2: ϕ_S295.00000°,δ88.00000°,λ148.00000°. $M_0$2.55000×10^{14}
IDC Error ellipse: s-maj=30.0km s-min=20.5km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=8.2km az=173.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 00 30 25.2–1.5 36.77N–.06 141.2E–.10 45–11 3.8b 27 0-60
NIED IV 09 00 30 00 36.80N 141.00E 50 3.6W **¶600581509**
ISCJB IV 09 00 30 24.5–.85 36.77N–.05 141.12E–.08 54–5 3.7b
JMA IV 09 00 30 26.2–.10 36.81N 141.01E 52–1 3.8
IDC IV 09 00 30 27.2–5.0 36.79N 141.06E 62–39 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S37.00000°,δ26.00000°,λ107.00000°. NP2:ϕ_S198.00000°,δ65.00000°,λ82.00000°. $M_0$3.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.9km az=28.4.
JMA Event type fe.
IDC Error ellipse: s-maj=37.7km s-min=20.3km az=75.0.
JMA IV 09 00 34 48.6–.20 38.39N 142.17E 37–3 3.6 ¶600581512
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 09 00 57 19.2–2.1 36.96N–.07 141.45E–.08 2–13 3.5b 20 1-50
NIED IV 09 00 57 00 36.80N 141.30E 23 3.5W **¶17200296**
ISCJB IV 09 00 57 19.7–1.6 36.87N–.05 141.50E–.09 19–8 3.4b
IDC IV 09 00 57 19.9–7.0 36.10N 141.71E 44–39 3.4,3.4
JMA IV 09 00 57 21.7–.10 36.83N 141.32E 42–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S181.00000°,δ21.00000°,λ-151.00000°. NP2:ϕ_S63.00000°,δ80.00000°,λ-71.00000°. $M_0$2.00000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=7.3km az=26.3.
IDC Error ellipse: s-maj=111.8km s-min=37.5km az=167.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 01 13 21.4–2.6 39.57N–.05 142.75E–.06 9–16 3.7b 37 1-67
NIED IV 09 01 13 00 39.60N 142.90E 8 3.7W **¶17200298**
JMA IV 09 01 13 20.9–.20 39.62N 142.86E 21–2 4.1
ISCJB IV 09 01 13 21.1–1.1 39.62N–.04 142.87E–.06 15–7 3.6b
IDC IV 09 01 13 28.5–3.5 39.49N 142.81E 68–33 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S358.00000°,δ27.00000°,λ-119.00000°. NP2:ϕ_S210.00000°,δ67.00000°,λ-76.00000°. $M_0$4.28000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.8km az=28.7.
IDC Error ellipse: s-maj=25.2km s-min=21.6km az=131.0.
JMA IV 09 01 37 58.7–.10 38.36N 141.92E 63–2 2.9 ¶17200299
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 09 02 38 00.8–1.5 36.61N–.04 141.09E–.06 32–10 3.9b 39 0-91
ISCJB IV 09 02 38 00.8–.70 36.60N–.04 141.10E–.08 48–6 3.8b **¶17200305**
NIED IV 09 02 38 00 36.60N 141.00E 50 4.1W
JMA IV 09 02 38 01.8–.10 36.63N 141.04E 45–1 4.0
IDC IV 09 02 38 04.3–2.2 36.55N 140.93E 65–21 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.6km az=10.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S29.00000°,δ45.00000°,λ59.00000°. NP2:ϕ_S249.00000°,δ53.00000°,λ117.00000°. $M_0$1.57000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=21.1km s-min=12.3km az=78.0.
ISC IV 09 02 52 55.6–2.1 37.01N–.05 141.88E–.07 3–12 3.9b 39 1-90
IDC IV 09 02 52 55.2–.85 36.97N 141.92E 0 3.9,3.9 **¶16529581**
ISCJB IV 09 02 52 56.1–1.3 36.96N–.03 141.91E–.07 20–8 3.9b,3.9
NEIC IV 09 02 52 59.7–2.2 36.93N 141.88E 32–16 4.2b,3.9
NIED IV 09 02 53 00 37.10N 141.60E 44 3.9W,3.9
JMA IV 09 02 53 01.2–.20 37.05N 141.59E 44–2 3.9,3.9

ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=16.6km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.6km az=4.9.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.8km az=92.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ17.00000°,λ-180.00000°. NP2:ϕ_s183.00000°,δ90.00000°,λ-73.00000°. $M_0$7.79000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**IV**	**09 02 59 35.1–.86**	**38.46N–.05**	**141.88E–.05**	**54–7**	**4.4b,4.2s**	**175**	**0-151**
NIED	IV	09 02 59 00	38.40N	141.80E	50	4.2W,4.2s		**¶602553064**
MOS	IV	09 02 59 30.9–1.0	38.37N	141.70E	35	4.6b,4.2s		
NEIC	IV	09 02 59 34.1–.31	38.62N	141.81E	35	4.6b,4.2s		
ISCJB	IV	09 02 59 34.6–.42	38.50N–.03	141.80E–.04	61–3	4.4b,4.2s		
JMA	IV	09 02 59 35.5–.10	38.43N	141.80E	57–1	4.3,4.2s		
IDC	IV	09 02 59 36.4–2.3	38.41N	141.76E	67–21	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ28.00000°,λ59.00000°. NP2:ϕ_s73.00000°,δ66.00000°,λ105.00000°. $M_0$2.24000×10^{15}
MOS Error ellipse: s-maj=10.8km s-min=5.8km az=102.2.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.7km az=121.0. Recorded [3 JMA] in Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=36.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.6km s-min=13.2km az=97.0.

ISC	**IV**	**09 03 32 58.9–1.3**	**36.51N–.04**	**140.93E–.06**	**26–9**	**4.0b**	**38**	**0-147**
NIED	IV	09 03 32 00	36.50N	140.90E	23	4.0W		**¶16415760**
ISCJB	IV	09 03 32 57.2–.86	36.45N–.04	141.01E–.06	27–5	4.0b		
JMA	IV	09 03 32 58.2–.10	36.47N	140.94E	33–1	4.0		
IDC	IV	09 03 33 02.8–2.2	36.35N	140.74E	63–20	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ64.00000°,λ163.00000°. NP2:ϕ_s26.00000°,δ75.00000°,λ27.00000°. $M_0$1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.4km az=24.8.
JMA Event type fe.
IDC Error ellipse: s-maj=18.5km s-min=14.7km az=89.0.

ISC	**IV**	**09 03 39 00.7–1.4**	**38.40N–.06**	**141.9E–.10**	**49–12**	**3.7b**	**32**	**0-146**
ISCJB	IV	09 03 39 00.1–.82	38.39N–.04	141.86E–.09	60–6	3.8b		**¶17200307**
NIED	IV	09 03 39 00	38.40N	141.80E	50	4.0W		
JMA	IV	09 03 39 01.0–.10	38.40N	141.80E	56–1	3.9		
IDC	IV	09 03 39 01.3–3.6	38.36N	141.79E	56–33	3.8,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.7km az=14.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ34.00000°,λ74.00000°. NP2:ϕ_s51.00000°,δ58.00000°,λ100.00000°. $M_0$9.84000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=16.9km az=92.0.

JMA	**IV**	**09 04 17 55.0–.10**	**38.75N**	**142.37E**	**38–2**	**3.6**		
NIED	IV	09 04 17 00	38.70N	142.40E	50	4.2W		**¶600581649**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ19.00000°,λ159.00000°. NP2:ϕ_s139.00000°,δ83.00000°,λ72.00000°. $M_0$2.13000×10^{15}

JMA	**IV**	**09 04 58 03.5–.10**	**38.37N**	**141.77E**	**58–1**	**3.9**		
								¶600581666

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**09 05 14 29.5–.20**	**38.39N**	**142.26E**	**31–3**	**3.5**		
								¶600581671

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**09 06 29 38.0–1.5**	**38.97N–.04**	**142.55E–.05**	**7–8**	**4.2b**	**73**	**1-88**
NIED	IV	09 06 29 00	39.00N	142.60E	8	4.1W		**¶16512220**
IDC	IV	09 06 29 36.9–.66	38.86N	142.73E	0	4.2,4.1		
ISCJB	IV	09 06 29 37.7–1.0	38.97N–.03	142.63E–.05	16–6	4.1b,4.1		
MOS	IV	09 06 29 39.9–1.2	39.00N	142.69E	34	4.3b,4.1		
JMA	IV	09 06 29 39.1–.20	39.00N	142.56E	25–2	4.1,4.1		
NEIC	IV	09 06 29 42.5–.90	38.92N	142.65E	39–8	4.6b,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ54.00000°,λ-152.00000°. NP2:ϕ_s125.00000°,δ67.00000°,λ-40.00000°. $M_0$1.54000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=14.1km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.3km az=29.9.
MOS Error ellipse: s-maj=11.1km s-min=7.0km az=77.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=5.9km az=120.0.

ISC	**IV**	**09 07 28 38.1–1.1**	**36.62N–.07**	**141.1E–.10**	**40–9**	**3.9b**	**40**	**0-83**
NIED	IV	09 07 28 00	36.60N	141.00E	50	3.9W		**¶16415761**
ISCJB	IV	09 07 28 37.1–.88	36.61N–.05	141.10E–.08	47–6	3.9b,3.4s		
JMA	IV	09 07 28 38.5–.10	36.65N	140.99E	48–1	3.8,3.4s		
IDC	IV	09 07 28 42.9–2.1	36.60N	140.86E	84–18	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ25.00000°,λ53.00000°. NP2:ϕ_s36.00000°,δ70.00000°,λ105.00000°. $M_0$9.08000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.9km az=30.9.
JMA Event type fe.
IDC Error ellipse: s-maj=17.7km s-min=13.9km az=109.0.

ISC	**IV**	**09 07 37 42.3–1.4**	**37.31N–.07**	**141.4E–.10**	**57–10**	**3.4b**	**20**	**0-64**
IDC	IV	09 07 37 34.3–1.2	37.35N	141.61E	0	3.5,3.4		**¶17200314**
ISCJB	IV	09 07 37 42.0–1.0	37.30N–.07	141.3E–.10	69–5	3.3b,3.4		
JMA	IV	09 07 37 43.8–.10	37.33N	141.18E	63–1	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=25.2km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=10.6km az=13.2.

ISC	**IV**	**09 08 02 18.6–.70**	**36.20N–.05**	**140.05E–.05**	**58–6**	**4.2b,3.5s**	**91**	**0-153**
NIED	IV	09 08 02 00	36.30N	140.10E	56	4.4W,3.5s		**¶16415762**
IDC	IV	09 08 02 11.3–.59	36.22N	139.97E	0	4.3,4.2		
ISCJB	IV	09 08 02 17.7–.39	36.18N–.03	140.12E–.05	66–3	4.1b,4.2		
MOS	IV	09 08 02 17.4–1.4	36.29N	140.11E	59	4.4b,4.2		
JMA	IV	09 08 02 19.0–.10	36.23N	140.09E	54–1	4.3,4.2		
NEIC	IV	09 08 02 19.3–.67	36.19N	140.08E	61–6	4.4b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ23.00000°,λ132.00000°. NP2:ϕ_s54.00000°,δ73.00000°,λ74.00000°. $M_0$3.80000×10^{15}
IDC Error ellipse: s-maj=17.4km s-min=14.8km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.3km az=0.4.
MOS Error ellipse: s-maj=10.3km s-min=7.5km az=110.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s38.00000°,δ71.00000°,λ88.00000°. NP2:ϕ_s226.00000°,δ19.00000°,λ97.00000°. Principal axes: T Plg64.0000°,Azm304.0000°; N Plg2.0000°,Azm39.0000°; P Plg26.0000°,Azm130.0000°
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.9km az=67.0. Recorded [4 JMA] in Ibaraki.

ISC	**IV**	**09 08 53 28.4–1.8**	**36.67N–.04**	**141.22E–.05**	**7–11**	**4.3b**	**84**	**1-152**
NIED	IV	09 08 53 00	36.60N	141.20E	8	4.0W		**¶600581763**
IDC	IV	09 08 53 27.2–.50	36.63N	141.09E	0	4.4,4.3		
ISCJB	IV	09 08 53 29.1–.76	36.64N–.03	141.24E–.05	24–5	4.3b,4.3		
JMA	IV	09 08 53 29.7–.10	36.64N	141.20E	37–1	4.3,4.3		
NEIC	IV	09 08 53 30.5–1.4	36.66N	141.14E	20–10	4.5b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ53.00000°,λ-135.00000°. NP2:ϕ_s45.00000°,δ55.00000°,λ-47.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=11.7km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=11.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=115.0.

ISC	**IV**	**09 09 01 41.9–.89**	**36.96N–.03**	**140.54E–.04**	**16–6**	**3.8b,3.2s**	**43**	**0-91**
NIED	IV	09 09 01 00	36.90N	140.70E	20	4.0W,3.2s		**¶16416708**
ISCJB	IV	09 09 01 41.8–.46	36.93N–.03	140.69E–.04	26–3	3.8b,3.0s		
JMA	IV	09 09 01 42.6	36.94N	140.61E	17–1	4.3,3.0s		
IDC	IV	09 09 01 46.5–1.6	36.51N	140.66E	75–16	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ26.00000°,λ-9.00000°. NP2:ϕ_s241.00000°,δ86.00000°,λ-115.00000°. $M_0$1.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=36.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ78.00000°,λ-107.00000°. NP2:ϕ_s120.00000°,δ20.00000°,λ-36.00000°. Principal axes: T Plg31.0000°,Azm348.0000°; N Plg16.0000°,Azm248.0000°; P Plg54.0000°,Azm134.0000°
IDC Error ellipse: s-maj=15.1km s-min=9.2km az=65.0.

ISC	**IV**	**09 09 12 52.9–.79**	**35.51N–.05**	**140.18E–.06**	**69–7**	**3.8b**	**40**	**0-118**
ISCJB	IV	09 09 12 51.5–.47	35.51N–.04	140.20E–.06	75–4	3.6b		**¶17200317**
JMA	IV	09 09 12 51.7–.20	35.64N	140.21E	67–2	3.1		
IDC	IV	09 09 12 51.9–2.1	35.25N	140.11E	72–19	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.5km az=154.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=15.8km az=66.0.

JMA	**IV**	**09 09 20 18.8–.10**	**36.17N**	**141.27E**	**32–2**	**3.0**		
								¶600581779

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**09 09 40 47.6–2.5**	**36.43N–.09**	**141.1E–.10**	**25–13**	**3.7b**	**23**	**0-60**
JMA	IV	09 09 40 48.7–.10	36.41N	141.00E	44–1	3.7		**¶17200320**
IDC	IV	09 09 40 50.8–1.7	37.25N	140.51E	0	3.7,3.6		

ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=36.1km s-min=24.4km az=66.0.

ISC	**IV**	**09 09 42 20.7–.31**	**38.32N–.03**	**141.78E–.03**	**58–2**	**5.2b,4.7s**	**1189**	**0-160**
NIED	IV	09 09 42 00	38.20N	141.80E	68	5.4W,4.7s		**¶16415798**
MOS	IV	09 09 42 19.0–.84	38.50N	141.74E	44	5.4b,4.4s		
BJI	IV	09 09 42 19.0	38.20N	141.62E	59	5.2b,5.1b		
JMA	IV	09 09 42 20.3–.10	38.25N	141.81E	58–1	5.4,5.1b		
IDC	IV	09 09 42 20.9–1.4	38.32N	141.79E	57–12	4.9,4.7		
ISCJB	IV	09 09 42 20.5–.27	38.29N–.02	141.71E–.02	66–2	5.1b,4.7		
NEIC	IV	09 09 42 21.9–.36	38.28N	141.70E	65–3	5.4b,4.7		
GCMT	IV	09 09 42 21.9–.20	38.37N	141.81E	62–1	5.3W,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ53.00000°,λ156.00000°. NP2:ϕ_s162.00000°,δ71.00000°,λ39.00000°. $M_0$1.21000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.7km az=97.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=9.9km s-min=8.6km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=160.1.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=140.0. Recorded [5L JMA] in Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c127; s110,c200; Duration: 1$_{S1}$ Moment tensor: Scale 10^{17}Nm; M_{rr}0.39±.02 $M_{\theta\theta}$0.73±.02; $M_{\phi\phi}$-1.12±.02; $M_{r\theta}$0.21±.02; $M_{\theta\phi}$-0.66±.02; $M_{\phi r}$-0.57±.02; Best double couple: NP1:ϕ_s157.00000°,δ81.00000°,λ32.00000°. NP2:ϕ_s61.00000°,δ58.00000°,λ169.00000°. Principal axes: T 1.1440,Plg29.0000°,Azm24.0000°; N 0.3120,Plg56.0000°,Azm172.0000° ; P -1.4560,Plg15.0000°,Azm285.0000° $M_0$1.30000×10^{17}

ISC	**IV**	**09 10 02 25.2–.91**	**35.60N–.04**	**140.72E–.06**	**47–7**	**3.6b**	**30**	**0-75**
IDC	IV	09 10 02 17.9–1.2	35.65N	141.06E	0	3.8,3.8		**¶17200324**
ISCJB	IV	09 10 02 23.9–.59	35.60N–.04	140.83E–.07	55–4	3.6b,3.8		
JMA	IV	09 10 02 25.0–.10	35.65N	140.69E	48–1	3.0,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=15.7km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.8km az=168.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**09 11 30 04.9–2.9**	**38.11N–.04**	**142.09E–.07**	**23–19**	**3.8b**	**37**	**1-89**
NIED	IV	09 11 30 00	38.20N	142.10E	53	3.8W		**¶17200330**
ISCJB	IV	09 11 30 05.6–1.1	38.13N–.03	142.13E–.09	42–10	3.7b		
JMA	IV	09 11 30 06.3–.20	38.18N	142.09E	44–2	4.0		
IDC	IV	09 11 30 08.0–2.4	38.12N	142.09E	48–24	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ50.00000°,λ-125.00000°. NP2:ϕ_s127.00000°,δ52.00000°,λ-56.00000°. $M_0$5.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.8km az=5.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=23.2km s-min=14.4km az=90.0.

ISC	**IV**	**09 11 53 33.0–1.7**	**38.22N–.05**	**142.0E–.10**	**52–14**	**3.6b**	**27**	**1-58**
IDC	IV	09 11 53 23.6–2.6	38.41N	142.70E	0	3.6,3.6b		**¶17200334**
ISCJB	IV	09 11 53 33.2–1.1	38.25N–.04	141.9E–.10	66–7	3.5b,3.6b		
JMA	IV	09 11 53 34.2–.10	38.27N	141.83E	59–1	3.6,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=65.3km s-min=27.9km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=6.5km az=10.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**09 13 07 44.5–2.1**	**35.88N–.10**	**141.7E–.10**	**26**		**12**	**1-60**
IDC	IV	09 13 07 39.7–3.1	35.96N	142.20E	0	3.8,3.7b		**¶17200339**
JMA	IV	09 13 07 44.2–.20	35.82N	141.83E	22–3	3.2,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=92.2km s-min=27.9km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**09 14 47 03.0–2.3**	**38.16N–.05**	**142.61E–.09**	**6–13**	**3.6b**	**22**	**1-62**
JMA	IV	09 14 47 05.6–.20	38.14N	142.66E	34–4	3.8		**¶17200342**
IDC	IV	09 14 47 20.7–3.0	37.84N	141.56E	131–28	3.4,3.2		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=29.9km s-min=18.1km az=94.0.

ISC	**IV**	**09 14 53 24.6–1.6**	**36.28N–.04**	**141.84E–.05**	**13–10**	**4.4b,3.9s**	**106**	**1-147**
NIED	IV	09 14 53 00	36.30N	141.80E	20	4.3W,3.9s		**¶16455889**
IDC	IV	09 14 53 22.6–.62	36.22N	141.85E	0	4.2,4.2b		
MOS	IV	09 14 53 24.4–1.1	36.29N	142.02E	28	4.6b,4.2b		
ISCJB	IV	09 14 53 24.5–1.2	36.26N–.03	141.93E–.05	27–8	4.2b,4.0s		
JMA	IV	09 14 53 26.7–.20	36.31N	141.77E	58–4	4.3,4.0s		
NEIC	IV	09 14 53 28.7–1.1	36.23N	141.77E	43–9	4.5b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ24.00000°,λ124.00000°. NP2:ϕ_s17.00000°,δ71.00000°,λ76.00000°. $M_0$2.67000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=13.6km az=131.0.
MOS Error ellipse: s-maj=9.1km s-min=6.1km az=108.3.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.4km az=23.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.8km az=121.0.

JMA	**IV**	**09 14 56 53.5–.10**	**36.01N**	**141.05E**	**22–1**	**2.8**		
								¶600581946

ISC	**IV**	**09 15 03 56.2–1.5**	**36.00N–.10**	**141.8E–.10**	**23**	**3.3b**	**10**	**3-60**
IDC	IV	09 15 03 52.6–2.1	36.03N	141.86E	0	3.7,3.7s		**¶17200344**

ISC Event type ke.
IDC Error ellipse: s-maj=42.6km s-min=23.1km az=63.0.

ISC	**IV**	**09 15 43 15.0–2.0**	**37.15N–.05**	**141.60E–.08**	**0–12**	**3.4b**	**20**	**1-61**
JMA	IV	09 15 43 18.3–.20	37.13N	141.46E	34–1	3.4		**¶17200348**
IDC	IV	09 15 43 19.5–2.5	36.44N	141.42E	0	3.4,3.3b		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=60.3km s-min=26.7km az=42.0.

ISC	**IV**	**09 16 57 23.1–.54**	**38.37N–.05**	**142.84E–.06**	**23**	**4.1b,3.3s**	**51**	**1-145**
NIED	IV	09 16 57 00	38.50N	142.80E	8	4.1W,3.3s		**¶600582051**
JMA	IV	09 16 57 20.7–.30	38.45N	142.84E	6–4	4.6,3.3s		
ISCJB	IV	09 16 57 21.5–.43	38.39N–.05	142.96E–.05	23	4.1b,3.2s		
IDC	IV	09 16 57 26.4–2.2	38.25N	142.92E	52–20	4.1,4.0		
NEIC	IV	09 16 57 27.1–1.1	38.24N	142.92E	61–10	4.7b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ38.00000°,λ-67.00000°. NP2:ϕ_s257.00000°,δ56.00000°,λ-107.00000°. $M_0$1.71000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.3km az=147.9.
IDC Error ellipse: s-maj=15.8km s-min=11.4km az=101.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.0km az=115.0.

JMA	**IV**	**09 16 57 55.0–.10**	**37.83N**	**141.62E**	**42–2**	**4.0**		
								¶600582056

ISC	**IV**	**09 17 47 30.6–.76**	**35.48N–.05**	**140.08E–.06**	**70–6**	**3.5b**	**32**	**0-80**
ISCJB	IV	09 17 47 29.5–.41	35.45N–.04	140.08E–.06	77–3	3.5b		**¶17200357**
JMA	IV	09 17 47 29.7–.20	35.58N	140.12E	70–2	3.2		
IDC	IV	09 17 47 30.9–1.6	35.42N	140.02E	74–15	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.7km az=150.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=10.6km az=75.0.
ISC IV 09 18 22 50.5–2.1 37.58N–.05 141.74E–.07 4–12 3.5b 25 1-68
NIED IV 09 18 22 00 37.60N 141.70E 11 3.5W ¶17200359
ISCJB IV 09 18 22 50.8–1.4 37.57N–.04 141.80E–.09 17–9 3.5b
IDC IV 09 18 22 50.3–1.8 37.69N 141.72E 0 3.7,3.6
JMA IV 09 18 22 52.5–.10 37.58N 141.70E 27–2 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ62.00000°,λ11.00000°. NP2:ϕ_s11.00000°,δ80.00000°,λ151.00000°. $M_0$1.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.9km az=16.1.
IDC Error ellipse: s-maj=48.4km s-min=21.9km az=75.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 09 18 47 07.4–1.5 38.14N–.05 142.0E–.10 53–13 3.5b,3.2s 27 1-62
IDC IV 09 18 46 58.5–2.0 38.34N 142.55E 0 3.7,3.6 ¶17200360
NIED IV 09 18 47 00 38.20N 141.80E 86 4.6W,3.6
ISCJB IV 09 18 47 07.0–1.0 38.15N–.05 141.9E–.10 66–7 3.5b,3.6
JMA IV 09 18 47 08.5–.10 38.19N 141.83E 62–1 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=19.2km az=71.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ31.00000°,λ-171.00000°. NP2:ϕ_s348.00000°,δ85.00000°,λ-59.00000°. $M_0$8.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.0km az=12.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 09 18 49 17.4–.94 35.57N–.06 140.07E–.06 72–7 3.5b 25 0-59
IDC IV 09 18 49 15.4–1.0 34.83N 138.13E 0 3.6,3.5 ¶17200361
ISCJB IV 09 18 49 16.3–.55 35.56N–.05 140.09E–.07 78–4 3.4b,3.5
JMA IV 09 18 49 16.4–.20 35.68N 140.14E 67–2 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=14.8km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.9km az=145.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s356.00000°,δ73.00000°,λ102.00000°. NP2: ϕ_s139.00000°,δ21.00000°,λ55.00000°. Principal axes: T Plg60.0000°,Azm283.0000° ; N Plg12.0000°,Azm172.0000°; P Plg27.0000°,Azm76.0000°
ISC IV 09 19 32 13.0–2.1 36.30N–.05 141.68E–.09 28–16 25 1-56
IDC IV 09 19 32 11.8–3.1 36.02N 141.77E 0 3.5,3.4 ¶17200364
JMA IV 09 19 32 13.5–.10 36.32N 141.55E 62–3 3.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=56.5km s-min=29.8km az=73.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 19 53 15.8–1.1 36.94N–.03 140.71E–.04 9–8 3.1b 23 0-57
IDC IV 09 19 53 14.3–2.4 36.87N 140.75E 0 3.6,3.4 ¶17200366
ISCJB IV 09 19 53 15.1–.81 36.93N–.03 140.78E–.06 15–5 3.2b,3.4
JMA IV 09 19 53 15.8 36.95N 140.67E 6–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=28.0km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.6km az=16.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s352.00000° ,δ46.00000°,λ-92.00000°. NP2:ϕ_s176.00000°,δ44.00000°,λ-87.00000°. Principal axes: T Plg1.0000°,Azm84.0000°; N Plg2.0000°,Azm354.0000°; P Plg88.0000°,Azm201.0000°
ISC IV 09 20 15 05.1–2.0 38.53N–.04 142.14E–.07 15–11 27 1-59
ISCJB IV 09 20 15 05.7–1.2 38.51N–.03 142.16E–.07 20–7 3.2b ¶17200370
JMA IV 09 20 15 07.5–.10 38.56N 142.07E 33–2 3.4
IDC IV 09 20 15 08.6–3.4 37.70N 142.38E 0 3.3,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.1km az=17.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=74.8km s-min=43.6km az=57.0.
ISC IV 09 20 33 54.6–1.6 39.92N–.04 142.58E–.06 2–9 4.1b,3.3s 50 1-77
NEIC IV 09 20 33 29.8–1.2 38.37N 146.52E 10 4.5b,3.3s ¶16506264
IDC IV 09 20 33 54.6–.84 39.89N 142.50E 0 3.8,3.7
NIED IV 09 20 34 00 39.90N 142.40E 74 4.2W,3.7
JMA IV 09 20 34 00.3–.10 39.93N 142.42E 37–1 3.9,3.7
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=26.3km s-min=17.9km az=157.0.
IDC Error ellipse: s-maj=23.6km s-min=18.2km az=113.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ63.00000°,λ8.00000°. NP2:ϕ_s247.00000°,δ83.00000°,λ153.00000°. $M_0$2.29000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 09 20 46 51.4–1.5 37.98N–.04 141.91E–.09 46–15 3.4b 30 1-46
IDC IV 09 20 46 43.3–5.4 38.20N 142.39E 0 3.6,3.6 ¶17200373
ISCJB IV 09 20 46 51.8–.94 38.00N–.04 141.79E–.09 61–7 3.4b,3.6
JMA IV 09 20 46 52.5 38.01N 141.77E 53–1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=104.1km s-min=33.2km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.7km az=20.0.
ISC IV 09 21 23 05.8–.48 35.70N–.03 140.08E–.03 66–4 4.7b 302 0-153
NIED IV 09 21 23 00 35.80N 140.10E 68 4.6W ¶16416024
MOS IV 09 21 23 01.1–.89 35.64N 140.04E 40 4.9b
BJI IV 09 21 23 02.9 35.69N 140.18E 66 4.9b,4.6b
ISCJB IV 09 21 23 05.1–.27 35.68N–.02 140.09E–.03 78–2 4.7b,4.6b
NEIC IV 09 21 23 05.9–.37 35.66N 140.04E 68–3 4.9b,4.6b
JMA IV 09 21 23 06.0–.20 35.80N 140.10E 67–2 4.4,4.6b
IDC IV 09 21 23 06.4–1.1 35.65N 140.09E 72–9 4.3,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ30.00000°,λ63.00000°. NP2:ϕ_s13.00000°,δ64.00000°,λ105.00000°. $M_0$8.42000×10^{15}
MOS Error ellipse: s-maj=9.2km s-min=5.4km az=102.4.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.4km az=167.8.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=111.0. Felt at Narita. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama, Tochigi and Tokyo.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s9.00000°,δ68.00000°,λ89.00000°. NP2: ϕ_s192.00000°,δ22.00000°,λ93.00000°. Principal axes: T Plg67.0000°,Azm277.0000° ; N Plg1.0000°,Azm10.0000°; P Plg23.0000°,Azm100.0000°
IDC Error ellipse: s-maj=12.1km s-min=6.1km az=71.0.
ISC IV 09 22 49 44.4–1.6 40.40N–.06 142.1E–.10 51–11 3.8b 24 0-71
NIED IV 09 22 49 00 40.40N 142.10E 104 4.7W ¶17200384
IDC IV 09 22 49 36.2–1.7 40.51N 142.63E 0 3.7,3.7b
ISCJB IV 09 22 49 43.9–1.0 40.39N–.05 142.1E–.10 60–6 3.7b,3.7b
JMA IV 09 22 49 45.2–.10 40.36N 142.08E 50–1 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ44.00000°,λ26.00000°. NP2:ϕ_s217.00000°,δ72.00000°,λ131.00000°. $M_0$1.13000×10^{16}
IDC Error ellipse: s-maj=46.2km s-min=24.2km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=8.3km az=169.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISC IV 09 23 05 44.6–1.6 36.32N–.08 141.9E–.10 19 3.3b 11 1-56
IDC IV 09 23 05 40.9–2.9 36.36N 142.19E 0 3.3,3.2 ¶17200386
JMA IV 09 23 05 44.7–.30 36.36N 141.84E 82 2.7,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=62.8km s-min=31.5km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 09 23 09 42.9–1.9 36.26N–.08 141.9E–.20 23 3.4b 11 1-72
IDC IV 09 23 09 41.7–2.5 36.74N 141.88E 0 3.5b,3.5 ¶17200387
JMA IV 09 23 09 42.0–.50 36.30N 141.84E 77 2.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.1km s-min=28.9km az=61.0.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISC IV 09 23 42 20.6–1.5 36.31N–.04 140.86E–.05 15–10 21 0-56
ISCJB IV 09 23 42 21.5–.87 36.30N–.04 141.01E–.07 32–5 3.7s,3.2b ¶17200389
JMA IV 09 23 42 22.2–.10 36.28N 140.92E 46–1 2.8,3.2b
IDC IV 09 23 42 25.0–2.6 37.28N 140.43E 0 3.8s,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.0km az=13.5.
IDC Error ellipse: s-maj=44.6km s-min=39.5km az=2.0.
ISC IV 10 00 00 54.1–.36 35.71N–.05 141.50E–.04 25 4.4b,3.7s 163 1-118
NIED IV 10 00 00 00 35.50N 141.80E 20 4.3W,3.7s ¶16424659
JMA IV 10 00 00 50.6–.30 35.53N 141.84E 47–3 3.9,3.7s
MOS IV 10 00 00 51.4–.99 35.71N 141.58E 23 4.6b,3.7s
ISCJB IV 10 00 00 52.1–.24 35.72N–.03 141.59E–.03 25 4.5b,3.8s
BJI IV 10 00 00 53.6 35.73N 141.87E 51 4.9b,4.5b
IDC IV 10 00 00 53.9–3.0 35.49N 141.65E 37–25 4.0,3.9
NEIC IV 10 00 00 56.8–.52 35.76N 141.52E 47–5 4.8b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ30.00000°,λ125.00000°. NP2:ϕ_s356.00000°,δ66.00000°,λ72.00000°. $M_0$3.30000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=6.5km az=113.1.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.4km az=145.1.
IDC Error ellipse: s-maj=18.4km s-min=13.8km az=96.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.6km az=126.0.
ISC IV 10 00 08 34.4–.96 37.68N–.03 141.77E–.05 8–5 4.2b 67 1-146
NIED IV 10 00 08 00 37.70N 141.80E 8 4.1W ¶600582309
ISCJB IV 10 00 08 31.9–.94 37.67N–.03 141.89E–.04 1–5 4.1b,3.0s
IDC IV 10 00 08 33.1–.64 37.68N 141.77E 0 4.1,4.0
JMA IV 10 00 08 34.5–.10 37.70N 141.80E 20–2 4.2,4.0
NEIC IV 10 00 08 36.1–3.7 37.62N 141.87E 20–23 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ45.00000°,λ-59.00000°. NP2:ϕ_s258.00000°,δ52.00000°,λ-118.00000°. $M_0$1.45000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=41.1.
IDC Error ellipse: s-maj=19.1km s-min=15.1km az=109.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.2km az=122.0.
ISC IV 10 00 50 46.4–.51 36.61N–.04 140.72E–.04 50–4 4.6b,3.4s 248 0-147
NIED IV 10 00 50 00 36.50N 140.70E 53 4.4W,3.4s ¶16416029
MOS IV 10 00 50 43.5–1.1 36.53N 140.62E 39 4.8b,3.4s
ISCJB IV 10 00 50 45.7–.33 36.57N–.03 140.75E–.03 60–2 4.6b,3.5s
BJI IV 10 00 50 45.9 36.57N 140.66E 66 4.8b,4.6b
JMA IV 10 00 50 46.2–.10 36.51N 140.74E 52–1 4.2,4.6b
IDC IV 10 00 50 48.4–1.6 36.53N 140.68E 66–14 4.4,4.2
NEIC IV 10 00 50 48.8–.62 36.71N 140.63E 72–6 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ45.00000°,λ74.00000°. NP2:ϕ_s334.00000°,δ47.00000°,λ106.00000°. $M_0$4.45000×10^{15}
MOS Error ellipse: s-maj=9.6km s-min=5.1km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=40.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s147.00000°,δ45.00000°,λ82.00000°. NP2:ϕ_s339.00000°,δ45.00000°,λ98.00000°. Principal axes: T Plg84.0000°,Azm333.0000°; N Plg6.0000°,Azm153.0000°; P Plg0.0000° ,Azm243.0000°
IDC Error ellipse: s-maj=12.9km s-min=8.3km az=74.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.1km az=129.0.
ISC IV 10 01 17 00.7–1.7 37.61N–.04 141.80E–.07 20–5 3.3b 27 1-61
IDC IV 10 01 16 56.9–1.9 37.68N 142.14E 0 3.6L,3.5 ¶600582377
ISCJB IV 10 01 16 59.5–1.2 37.60N–.03 141.93E–.07 25–6 3.3b,3.5
NIED IV 10 01 17 00 37.60N 141.90E 35 3.6W,3.5
JMA IV 10 01 17 01.1–.20 37.62N 141.86E 34–3 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=41.4km s-min=23.9km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.7km az=0.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ44.00000°,λ-134.00000°. NP2:ϕ_s178.00000°,δ60.00000°,λ-56.00000°. $M_0$3.14000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 02 01 27.8–.55 36.32N–.04 141.03E–.06 21–3 4.2b 74 0-147
ISCJB IV 10 02 01 28.4–.57 36.30N–.03 141.09E–.05 40–4 4.1b,3.0s ¶17200402
JMA IV 10 02 01 28.8–.10 36.31N 141.04E 46–1 4.1,3.0s
NEIC IV 10 02 01 28.5–1.6 36.29N 141.02E 27–11 4.4b,3.0s
IDC IV 10 02 01 30.3–3.1 36.23N 140.95E 40–28 4.0,4.0L
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=177.6.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.4km az=88.0.
IDC Error ellipse: s-maj=19.2km s-min=15.6km az=65.0.
ISC IV 10 02 01 27.3–.90 38.66N–.10 142.2E–.10 39–6 3.5b 22 1-82
ISCJB IV 10 02 01 26.7–1.4 38.66N–.07 142.2E–.10 47–10 3.4b ¶16706220
JMA IV 10 02 01 27.1–.10 38.67N 142.17E 39–2 3.8
IDC IV 10 02 01 30.4–7.7 38.42N 142.13E 79–52 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.1km s-min=9.1km az=30.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=77.4km s-min=20.0km az=174.0.
ISC IV 10 02 29 25.9–1.9 38.39N–.06 142.0E–.10 43–19 3.6b 30 1-146
NIED IV 10 02 29 00 38.40N 141.80E 56 4.4W ¶17200406
ISCJB IV 10 02 29 25.9–.87 38.39N–.04 141.9E–.10 60–8 3.5b
JMA IV 10 02 29 26.8–.10 38.40N 141.83E 56–1 3.8
IDC IV 10 02 29 27.9–4.3 38.34N 141.91E 63–41 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ22.00000°,λ158.00000°. NP2:ϕ_s166.00000°,δ82.00000°,λ69.00000°. $M_0$4.50000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.3km az=12.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=38.5km s-min=19.2km az=105.0.
ISC IV 10 02 49 18.9–1.4 38.23N–.05 141.87E–.10 51–12 3.9b 43 0-146
NIED IV 10 02 49 00 38.30N 141.80E 65 4.0W ¶17200408
ISCJB IV 10 02 49 18.6–.74 38.25N–.04 141.82E–.09 62–6 3.8b
JMA IV 10 02 49 19.4–.10 38.27N 141.79E 56–1 4.0
IDC IV 10 02 49 20.4–2.7 38.19N 141.78E 67–25 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ52.00000°,λ144.00000°. NP2:ϕ_s172.00000°,δ62.00000°,λ44.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.7km az=14.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.0km s-min=15.7km az=117.0.
ISC IV 10 03 11 22.6–1.9 38.56N–.05 141.75E–.10 17–13 3.5b 21 0-59
IDC IV 10 03 11 19.4–2.9 38.86N 141.79E 0 3.5,3.4b ¶600582452
JMA IV 10 03 11 23.9–.10 38.56N 141.80E 46–1 3.7,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=69.8km s-min=34.1km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 03 21 53.7–.93 36.18N–.04 140.02E–.05 54–7 3.2b 25 0-65
NIED IV 10 03 21 00 36.20N 140.00E 77 3.5W ¶17200411
IDC IV 10 03 21 46.4–1.2 36.34N 140.34E 0 3.5,3.5L
ISCJB IV 10 03 21 52.7–.55 36.16N–.04 140.09E–.06 60–5 3.2b,3.5L
JMA IV 10 03 21 54.0–.10 36.18N 140.01E 51–1 3.5,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ33.00000°,λ141.00000°. NP2:ϕ_s31.00000°,δ70.00000°,λ63.00000°. $M_0$1.82000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=22.6km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.7km az=20.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s40.00000°,δ77.00000°,λ80.00000°. NP2: ϕ_s257.00000°,δ16.00000°,λ126.00000°. Principal axes: T Plg57.0000°,Azm297.0000° ; N Plg10.0000°,Azm42.0000°; P Plg31.0000°,Azm138.0000°
JMA IV 10 03 23 41.5–.10 38.59N 142.34E 40–2 3.6 ¶600582458
ISC IV 10 03 38 14.3–2.3 35.74N–.08 140.9E–.20 11–7 12 0-56
JMA IV 10 03 38 14.9–.10 35.73N 140.90E 9–1 3.2 ¶17200413
ISC Event type ke.
ISC IV 10 03 38 20.5–1.2 35.77N–.07 140.9E–.10 9–9 3.4b 10 0-75
NIED IV 10 03 38 00 35.70N 140.90E 8 3.7W ¶600582470
ISCJB IV 10 03 38 19.1–1.8 35.74N–.10 141.0E–.10 12–7 3.4b
IDC IV 10 03 38 19.6–3.3 34.96N 139.69E 0 3.5,3.3
JMA IV 10 03 38 20.8–.10 35.74N 140.89E 9–1 3.7,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ39.00000°,λ-83.00000°. NP2:ϕ_s175.00000°,δ52.00000°,λ-96.00000°. $M_0$3.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=19.2km s-min=15.7km az=161.4.
IDC Error ellipse: s-maj=137.0km s-min=25.2km az=68.0.
JMA Event type fe.

ISC IV 10 04 12 30.4–.44 36.27N–.03 141.28E–.05 28–2 4.3b,3.5s 169 1-147
NIED IV 10 04 12 00 36.30N 141.20E 32 4.3W,3.5s **¶16416035**
MOS IV 10 04 12 28.9–.99 36.28N 141.33E 35 4.6b,3.5s
ISCJB IV 10 04 12 29.8–.54 36.26N–.03 141.26E–.04 38–4 4.3b,3.4s
JMA IV 10 04 12 30.6–.10 36.26N 141.15E 48–2 4.2,3.4s
NEIC IV 10 04 12 31.4–.64 36.26N 141.17E 34–4 4.5b,3.4s
IDC IV 10 04 12 31.9–.48 36.19N 141.12E 40–4 4.2L,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ34.00000°,λ-29.00000°. NP2:ϕ_s249.00000°,δ74.00000°,λ-121.00000°. $M_0$3.53000×10^{15}
MOS Error ellipse: s-maj=8.9km s-min=6.2km az=107.4.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.3km az=17.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.2km az=142.0.
IDC Error ellipse: s-maj=13.4km s-min=8.3km az=104.0.
ISC IV 10 04 18 03.3–2.2 35.75N–.10 140.9E–.20 11–7 3.6b 11 0-56
NIED IV 10 04 18 00 35.70N 140.90E 8 3.8W **¶17200419**
IDC IV 10 04 18 03.5–1.3 35.46N 140.53E 0 3.7,3.5b
ISCJB IV 10 04 18 04.2–.73 35.75N–.07 140.81E–.08 9–5 3.6b,3.5b
JMA IV 10 04 18 04.0–.20 35.74N 140.89E 9–1 3.8,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ36.00000°,λ-103.00000°. NP2:ϕ_s188.00000°,δ55.00000°,λ-81.00000°. $M_0$4.92000×10^{14}
IDC Error ellipse: s-maj=31.7km s-min=29.9km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=8.2km az=41.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 04 30 12.8–1.7 36.84N–.09 141.2E–.20 37–3 3.3b 20 0-57
NIED IV 10 04 30 00 36.90N 141.10E 53 3.5W **¶17200421**
IDC IV 10 04 30 06.4–2.6 36.87N 141.56E 0 3.5,3.4
ISCJB IV 10 04 30 12.5–1.3 36.83N–.08 141.2E–.10 47–8 3.3b,3.4
JMA IV 10 04 30 14.1–.10 36.88N 141.06E 50–1 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ25.00000°,λ174.00000°. NP2:ϕ_s14.00000°,δ88.00000°,λ66.00000°. $M_0$1.86000×10^{14}
IDC Error ellipse: s-maj=65.5km s-min=29.2km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=17.8km s-min=8.6km az=36.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 10 04 40 19.8–4.2 35.84N 141.38E 0 3.6b,3.5
¶17200422
IDC Error ellipse: s-maj=116.1km s-min=31.0km az=53.0.
IDC IV 10 06 23 36.1–11 36.69N 141.97E 0 3.3b,3.2
¶17200428
IDC Error ellipse: s-maj=208.2km s-min=69.0km az=140.0.
ISC IV 10 06 30 23.6–1.4 36.01N–.06 140.98E–.09 24–9 3.7b 16 0-57
NIED IV 10 06 30 00 36.00N 141.00E 29 3.6W **¶600582565**
IDC IV 10 06 30 19.4–1.2 35.87N 141.09E 0 3.9L,3.8
ISCJB IV 10 06 30 22.8–.98 35.99N–.06 141.01E–.08 32–5 3.7b,3.8
JMA IV 10 06 30 23.1–.10 35.97N 141.01E 34–1 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ13.00000°,λ-15.00000°. NP2:ϕ_s2.00000°,δ87.00000°,λ-103.00000°. $M_0$2.89000×10^{14}
IDC Error ellipse: s-maj=34.3km s-min=22.6km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=8.2km az=144.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 07 19 58.0–.77 38.70N–.06 142.12E–.08 41 3.6b 19 1-89
NIED IV 10 07 19 00 38.70N 142.20E 62 3.8W **¶17200435**
IDC IV 10 07 19 53.1–.94 38.91N 142.16E 0 3.7,3.5
ISCJB IV 10 07 19 56.8–.64 38.75N–.06 142.16E–.07 41 3.5b,3.5
JMA IV 10 07 19 56.8–.10 38.73N 142.18E 37–2 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ35.00000°,λ-3.00000°. NP2:ϕ_s63.00000°,δ88.00000°,λ-125.00000°. $M_0$6.26000×10^{14}
IDC Error ellipse: s-maj=35.5km s-min=20.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.9km az=156.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 08 31 49.9–2.5 39.23N–.04 142.4E–.10 26–14 3.6b 25 1-59
NIED IV 10 08 31 00 39.20N 142.40E 35 3.7W **¶17200437**
IDC IV 10 08 31 42.7–1.3 39.39N 143.28E 0 3.7,3.5
ISCJB IV 10 08 31 50.2–1.4 39.21N–.04 142.4E–.10 40–12 3.5b,3.5
JMA IV 10 08 31 50.2–.10 39.21N 142.38E 34–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ29.00000°,λ167.00000°. NP2:ϕ_s0.00000°,δ84.00000°,λ61.00000°. $M_0$4.10000×10^{14}
IDC Error ellipse: s-maj=34.4km s-min=26.0km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=6.4km az=6.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 10 09 33 10.2 36.83N 140.55E 17–1 1.7
¶603308251
ISC IV 10 10 48 17.3–1.4 38.43N–.06 142.3E–.10 21–6 3.6b 19 1-62
NIED IV 10 10 48 00 38.50N 142.30E 68 4.6W **¶600582716**
IDC IV 10 10 48 13.0–2.5 38.55N 142.86E 0 3.6,3.5b
ISCJB IV 10 10 48 18.0–1.5 38.41N–.04 142.32E–.08 33–9 3.6b,3.5b
JMA IV 10 10 48 18.9–.20 38.47N 142.27E 30–3 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ25.00000°,λ-167.00000°. NP2:ϕ_s332.00000°,δ84.00000°,λ-66.00000°. $M_0$9.56000×10^{15}
IDC Error ellipse: s-maj=66.9km s-min=31.8km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.1km az=11.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 10 12 01 48.7–2.1 36.71N–.05 141.81E–.07 1–12 4.6b 69 1-148
IDC IV 10 12 01 48.3–.61 36.74N 142.01E 0 4.2,4.1 **¶16706278**
ISCJB IV 10 12 01 49.3–1.2 36.60N–.03 141.87E–.05 15–8 4.4b,4.1
JMA IV 10 12 01 53.1–.20 36.69N 141.61E 44–3 4.1,4.1
NEIC IV 10 12 01 54.7–1.2 36.62N 141.87E 44–11 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=14.9km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.7km az=2.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.0km az=53.0.
ISC IV 10 12 14 43.4–1.1 35.72N–.04 141.04E–.05 33 3.2b 17 0-59
IDC IV 10 12 14 38.5–2.6 35.71N 141.21E 0 3.3,3.2 **¶17200460**
ISCJB IV 10 12 14 41.2–1.0 35.72N–.05 141.2E–.10 33 3.2b,3.2
JMA IV 10 12 14 41.6–.20 35.68N 141.06E 24–1 3.3,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=69.1km s-min=24.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=6.3km az=174.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 13 06 19.6–2.0 37.40N–.04 141.52E–.08 2–12 3.6b 27 1-74
NIED IV 10 13 06 00 37.40N 141.30E 47 3.7W **¶17200463**
ISCJB IV 10 13 06 21.0–1.1 37.37N–.04 141.49E–.07 20–6 3.5b
JMA IV 10 13 06 24.0–.10 37.42N 141.25E 28–1 3.8
IDC IV 10 13 06 27.0–2.5 37.15N 141.47E 74–23 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ12.00000°,λ-160.00000°. NP2:ϕ_s227.00000°,δ86.00000°,λ-78.00000°. $M_0$4.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.2km az=24.2.
JMA Event type fe.
IDC Error ellipse: s-maj=21.5km s-min=14.0km az=71.0.
ISC IV 10 13 34 21.9–2.2 37.65N–.05 141.76E–.09 25–14 3.6b 23 1-61
NIED IV 10 13 34 00 37.70N 141.70E 26 3.4W **¶17200466**
IDC IV 10 13 34 15.3–2.0 37.87N 142.48E 0 3.7,3.7L
ISCJB IV 10 13 34 20.3–1.6 37.66N–.05 141.95E–.09 29–9 3.5b,3.7L
JMA IV 10 13 34 24.6–.10 37.70N 141.68E 43–3 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ63.00000°,λ166.00000°. NP2:ϕ_s331.00000°,δ78.00000°,λ28.00000°. $M_0$1.64000×10^{14}
IDC Error ellipse: s-maj=54.5km s-min=20.2km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.5km az=3.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 13 44 47.2–3.8 36.93N–.06 141.74E–.09 5–24 3.4b 18 1-57
IDC IV 10 13 44 46.6–2.1 36.63N 141.79E 0 3.4,3.3b **¶17200467**
JMA IV 10 13 44 50.9–.10 36.93N 141.56E 42–2 3.4,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=48.6km s-min=28.9km az=53.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 14 55 18.7–1.2 36.73N–.04 140.51E–.05 6–7 3.7b 34 0-91
NIED IV 10 14 55 00 36.70N 140.60E 5 3.7W **¶17200473**
ISCJB IV 10 14 55 17.9–1.0 36.63N–.04 140.71E–.07 13–6 3.5b,2.7s
IDC IV 10 14 55 17.5–.76 36.66N 140.56E 0 3.9,3.7
JMA IV 10 14 55 18.9 36.71N 140.63E 6–1 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ38.00000°,λ-99.00000°. NP2:ϕ_s127.00000°,δ53.00000°,λ-83.00000°. $M_0$3.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.8km az=19.4.
IDC Error ellipse: s-maj=19.5km s-min=12.1km az=165.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s308.00000°,δ53.00000°,λ-105.00000°. NP2:ϕ_s153.00000°,δ39.00000°,λ-71.00000°. Principal axes: T Plg7.0000°,Azm49.0000°; N Plg12.0000°,Azm318.0000°; P Plg76.0000° ,Azm169.0000°
ISC IV 10 15 07 04.8–.65 38.29N–.04 141.97E–.05 58–5 4.5b,3.4s 219 1-146
IDC IV 10 15 06 57.3–.48 38.28N 141.87E 0 4.6,4.5 **¶602553070**
NIED IV 10 15 07 00 38.30N 141.90E 65 4.4W,4.5
MOS IV 10 15 07 01.2–.91 38.31N 141.85E 38 4.7b,4.5
ISCJB IV 10 15 07 04.5–.41 38.31N–.03 141.91E–.04 68–3 4.4b,4.5
JMA IV 10 15 07 05.8–.10 38.33N 141.87E 64–1 4.5,4.5
NEIC IV 10 15 07 06.1–.61 38.34N 141.84E 67–5 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=11.6km az=99.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ40.00000°,λ114.00000°. NP2:ϕ_s202.00000°,δ54.00000°,λ72.00000°. $M_0$3.98000×10^{15}
MOS Error ellipse: s-maj=8.8km s-min=5.0km az=96.9.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=33.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=128.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC IV 10 16 21 38.1–1.0 38.24N–.04 141.88E–.07 55–8 4.2b,3.4s 87 0-146
NIED IV 10 16 21 00 38.20N 141.80E 62 4.1W,3.4s **¶16416050**
IDC IV 10 16 21 30.8–.66 38.18N 141.80E 0 4.3,4.1
BJI IV 10 16 21 33.3 37.88N 142.14E 57 4.6b,4.5b
ISCJB IV 10 16 21 37.4–.52 38.25N–.03 141.85E–.05 63–3 4.2b,4.5b
JMA IV 10 16 21 38.7–.10 38.26N 141.79E 56–1 4.1,4.5b
NEIC IV 10 16 21 39.3–.70 38.29N 141.82E 63–7 4.5b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ43.00000°,λ140.00000°. NP2:ϕ_s176.00000°,δ64.00000°,λ54.00000°. $M_0$1.72000×10^{15}
IDC Error ellipse: s-maj=19.2km s-min=14.9km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=5.7km az=132.0. Recorded [3 JMA] in Miyagi.
ISC IV 10 16 26 20.8–1.1 35.57N–.06 140.13E–.08 68–7 3.4b 20 0-59
IDC IV 10 16 26 09.7–2.3 35.83N 141.03E 0 3.5,3.5 **¶17200478**
ISCJB IV 10 16 26 19.6–.75 35.57N–.05 140.16E–.09 75–4 3.4b,3.5
JMA IV 10 16 26 19.4–.20 35.64N 140.19E 67–2 2.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=64.6km s-min=20.5km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.4km az=157.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 16 28 53.6–2.9 38.38N–.05 142.17E–.10 17–15 16 1-62
NIED IV 10 16 28 00 38.50N 142.20E 14 3.7W **¶17200480**
ISCJB IV 10 16 28 52.8–1.7 38.36N–.05 142.28E–.10 26–10 4.2b
IDC IV 10 16 28 53.9–3.7 37.89N 143.03E 0 4.1,4.1b
JMA IV 10 16 28 54.7–.10 38.45N 142.21E 30–2 4.2,4.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ15.00000°,λ-134.00000°. NP2:ϕ_s237.00000°,δ79.00000°,λ-79.00000°. $M_0$3.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.8km az=169.9.
IDC Error ellipse: s-maj=71.9km s-min=37.7km az=170.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 16 34 00.4–.69 36.42N–.04 141.18E–.05 22–5 4.3b,3.4s 78 1-147
IDC IV 10 16 33 56.6–.57 36.33N 141.14E 0 4.2,4.1 **¶16424666**
NIED IV 10 16 34 00 36.40N 141.10E 47 4.2W,4.1
JMA IV 10 16 34 01.6–.10 36.37N 141.11E 48–1 4.2,4.1
NEIC IV 10 16 34 03.0–.74 36.42N 141.07E 43–7 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=110.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ23.00000°,λ16.00000°. NP2:ϕ_s106.00000°,δ84.00000°,λ112.00000°. $M_0$2.54000×10^{15}
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.4km az=125.0.
ISC IV 10 17 18 02.5–.94 39.07N–.06 142.44E–.08 27 3.8b 19 1-73
IDC IV 10 17 17 58.5–.85 39.06N 142.52E 0 3.9,3.8 **¶17200482**
ISCJB IV 10 17 18 00.6–.65 39.04N–.05 142.55E–.06 27 3.7b,3.8
NIED IV 10 17 18 00 39.10N 142.40E 35 3.8W,3.8
JMA IV 10 17 18 02.9–.20 39.10N 142.43E 36–2 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=16.6km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.4km az=148.2.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ36.00000°,λ-148.00000°. NP2:ϕ_s158.00000°,δ72.00000°,λ-59.00000°. $M_0$6.60000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 10 17 24 34.3–8.5 36.57N 141.52E 0 3.5,3.5L
¶17200483
IDC Error ellipse: s-maj=184.6km s-min=40.5km az=30.0.
ISC IV 10 17 44 54.2–.90 37.28N–.04 141.57E–.04 24–6 4.4b,3.6s 180 1-146
NIED IV 10 17 44 00 37.30N 141.40E 35 4.3W,3.6s **¶602553067**
IDC IV 10 17 44 51.1–.45 37.26N 141.47E 0 4.7L,4.4
ISCJB IV 10 17 44 52.8–.64 37.25N–.02 141.59E–.03 28–4 4.3b,3.6s
MOS IV 10 17 44 54.3–1.2 37.30N 141.56E 36 4.6b,3.6s
JMA IV 10 17 44 55.3–.10 37.30N 141.44E 36–1 4.5,3.6s
NEIC IV 10 17 44 56.6–.86 37.21N 141.49E 46–8 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ29.00000°,λ-93.00000°. NP2:ϕ_s190.00000°,δ61.00000°,λ-88.00000°. $M_0$3.21000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=10.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.8km az=34.1.
MOS Error ellipse: s-maj=9.6km s-min=6.2km az=89.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.5km az=125.0. Recorded [3 JMA] in Fukushima.
ISC IV 10 18 20 58.3–.00 36.72N–.04 140.63E–.06 10–7 22 0-57
IDC IV 10 18 20 54.2–2.3 36.97N 140.90E 0 3.5,3.5 **¶17200488**
ISCJB IV 10 18 20 57.7–.74 36.69N–.03 140.70E–.06 7–4 3.3b,3.5
JMA IV 10 18 20 58.3 36.70N 140.67E 4–1 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=40.3km s-min=28.6km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.1km az=20.2.
JMA Event type fe.
ISC IV 10 18 29 07.7–1.9 36.32N–.07 140.89E–.08 26–11 3.3b 21 0-60
NIED IV 10 18 29 00 36.30N 140.80E 32 3.4W **¶17200490**
IDC IV 10 18 29 03.8–1.1 36.25N 140.93E 0 3.5,3.3
ISCJB IV 10 18 29 06.6–1.1 36.24N–.06 140.93E–.07 31–5 3.2b,3.3
JMA IV 10 18 29 08.1–.10 36.29N 140.85E 38–1 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ53.00000°,λ-14.00000°. NP2:ϕ_s243.00000°,δ79.00000°,λ-142.00000°. $M_0$1.28000×10^{14}
IDC Error ellipse: s-maj=28.1km s-min=20.9km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=8.7km az=156.0.
JMA Event type fe.
ISC IV 10 19 23 53.3–.70 39.73N–.04 142.57E–.05 35–2 4.7b,3.8s 222 1-145
NIED IV 10 19 23 00 39.80N 142.40E 41 4.5W,3.8s **¶16416186**
BJI IV 10 19 23 51.1 39.56N 142.61E 51 4.9b,4.7b

ISCJB IV 10 19 23 53.6–.51 39.76N–.03 142.41E–.05 47–3 4.6b,3.6s
MOS IV 10 19 23 53.4–1.0 39.83N 142.35E 42 4.9b,3.6s
JMA IV 10 19 23 54.7–.10 39.76N 142.36E 41–1 4.4,3.6s
NEIC IV 10 19 23 56.4–.65 39.79N 142.34E 60–5 4.7b,3.6s
IDC IV 10 19 23 56.7–1.9 39.74N 142.33E 60–17 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S184.00000°,δ20.00000°,λ71.00000°. NP2:ϕ_S24.00000°,δ71.00000°,λ97.00000°. $M_0$5.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.9km az=25.2.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=99.4.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.1km az=117.0.
IDC Error ellipse: s-maj=13.2km s-min=11.2km az=117.0.
ISC IV 10 20 02 05.8–2.0 36.66N–.05 141.27E–.07 2–11 3.5b 26 1-75
IDC IV 10 20 02 05.9–1.6 36.71N 141.25E 0 3.5,3.5 **¶600583017**
ISCJB IV 10 20 02 06.3–1.4 36.62N–.04 141.32E–.08 17–8 3.4b,3.5
JMA IV 10 20 02 08.2–.10 36.63N 141.16E 34–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=22.1km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.4km az=25.0.
JMA Event type fe.
JMA IV 10 20 11 23.0–.10 38.28N 141.82E 49–1 3.5
¶600583026
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 10 20 19 54.7–.64 36.43N–.04 141.08E–.05 28–3 4.3b,3.8s 75 0-147
NIED IV 10 20 19 00 36.40N 141.10E 32 4.2W,3.8s **¶601626041**
ISCJB IV 10 20 19 54.1–.70 36.39N–.03 141.17E–.06 40–5 4.2b,3.6s
JMA IV 10 20 19 55.4–.10 36.43N 141.08E 46–2 4.3,3.6s
IDC IV 10 20 19 56.6–.74 36.40N 141.04E 39–5 4.1,4.0
NEIC IV 10 20 19 57.2–1.1 36.31N 141.01E 53–10 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S318.00000°,δ5.00000°,λ-165.00000°. NP2:ϕ_S214.00000°,δ89.00000°,λ-85.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.2km az=9.3.
JMA Event type fe.
IDC Error ellipse: s-maj=14.2km s-min=11.8km az=112.0.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=8.2km az=70.0. Recorded [3 JMA] in Ibaraki.
JMA IV 10 20 20 25.4–.10 38.37N 141.76E 57–1 4.0
NIED IV 10 20 20 00 38.40N 141.80E 32 4.3W **¶602553068**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S216.00000°,δ53.00000°,λ-27.00000°. NP2:ϕ_S323.00000°,δ69.00000°,λ-140.00000°. $M_0$3.15000×10^{15}
JMA IV 10 20 23 08.2–.20 37.35N 141.92E 38–3 3.9
NIED IV 10 20 23 00 37.30N 141.90E 47 3.6W **¶600583030**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S153.00000°,δ47.00000°,λ158.00000°. NP2:ϕ_S258.00000°,δ74.00000°,λ45.00000°. $M_0$3.32000×10^{14}
ISC IV 10 20 30 16.3–1.9 37.70N–.05 141.77E–.09 26–12 18 1-58
IDC IV 10 20 30 10.2–2.9 37.84N 142.28E 0 3.5,3.4 **¶17200499**
ISCJB IV 10 20 30 16.1–1.5 37.70N–.05 141.8E–.10 25–8 3.1b,3.4
JMA IV 10 20 30 17.4–.10 37.69N 141.72E 33–3 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=61.2km s-min=33.2km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=7.4km az=13.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 20 46 46.4–1.7 38.69N–.06 141.8E–.10 52–11 3.4b 18 0-45
IDC IV 10 20 46 45.5–11 39.26N 141.26E 0 3.6b,3.5 **¶17200500**
ISCJB IV 10 20 46 46.3–1.3 38.71N–.06 141.8E–.20 57–7 3.5b,3.5
JMA IV 10 20 46 47.0–.10 38.71N 141.78E 54–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=220.0km s-min=42.1km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=20.6km s-min=6.8km az=19.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 10 21 35 54.4–.34 36.79N–.03 141.10E–.03 55–2 5.1b,4.3s 1163 0-157
NIED IV 10 21 35 00 36.70N 141.20E 56 5.1W,4.3s **¶16416192**
BJI IV 10 21 35 51.8 36.62N 141.09E 55 5.0b,4.8b
MOS IV 10 21 35 52.1–.77 37.00N 141.01E 35 5.3b,4.2s
NEIC IV 10 21 35 52.6–.11 36.77N 140.99E 35 5.2b,4.2s
GCMT IV 10 21 35 52.6–.30 36.75N 141.23E 49–0 5.1W,4.2s
JMA IV 10 21 35 53.9–.10 36.74N 141.15E 53–1 5.1,4.2s
ISCJB IV 10 21 35 54.0–.27 36.78N–.02 141.04E–.02 60–2 5.1b,4.2s
IDC IV 10 21 35 55.2–1.7 36.75N 141.06E 61–15 4.9,4.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S10.00000°,δ38.00000°,λ97.00000°. NP2:ϕ_S181.00000°,δ53.00000°,λ85.00000°. $M_0$4.69000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=99.4.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=150.0. Felt at Atsugi, Chiba and Narita. Recorded [4 JMA] in Fukushima and Ibaraki.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c78; s85,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.38±.18 $M_{\theta\theta}$1.02±.13; $M_{\phi\phi}$-5.40±.12; $M_{r\theta}$-0.02±.11; $M_{\theta\phi}$-0.14±.10; $M_{\phi r}$-1.49±.10; Best double couple: NP1:ϕ_S181.00000°,δ53.00000°,λ90.00000°. NP2:ϕ_S1.00000°,δ37.00000°,λ90.00000°. Principal axes: T 4.6020,Plg82.0000°,Azm90.0000°; N 1.0230,Plg0.0000°,Azm181.0000° ; P -5.6250,Plg8.0000°,Azm271.0000° $M_0$5.11300×10^{16}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S159.00000°,δ67.00000°,λ74.00000°. NP2:ϕ_S16.00000°,δ27.00000°,λ124.00000°. Principal axes: T Plg64.0000°,Azm42.0000°; N Plg15.0000°,Azm165.0000°; P Plg21.0000° ,Azm261.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=152.8.
IDC Error ellipse: s-maj=10.4km s-min=9.5km az=109.0.
JMA IV 10 21 57 14.1 36.78N 140.65E 25–1 3.6
¶600583047
JMA Event type fe.
ISC IV 10 23 47 17.7–.72 35.71N–.05 140.06E–.07 81–6 4.0b 45 0-117
NIED IV 10 23 47 00 35.80N 140.10E 68 4.1W **¶16506281**
IDC IV 10 23 47 15.9–2.0 35.80N 140.28E 63–17 4.0,3.8
ISCJB IV 10 23 47 16.5–.45 35.72N–.04 140.06E–.07 85–3 3.9b,3.8
JMA IV 10 23 47 17.6–.20 35.81N 140.07E 67–2 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S162.00000°,δ30.00000°,λ76.00000°. NP2:ϕ_S359.00000°,δ61.00000°,λ98.00000°. $M_0$1.58000×10^{15}
IDC Error ellipse: s-maj=26.3km s-min=9.8km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.0km az=150.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_S354.00000°,δ58.00000°,λ83.00000°. NP2: ϕ_S187.00000°,δ33.00000°,λ101.00000°. Principal axes: T Plg76.0000°,Azm244.0000° ; N Plg6.0000°,Azm358.0000°; P Plg13.0000°,Azm89.0000°
ISC IV 11 00 00 11.0–1.1 36.83N–.04 140.42E–.04 6–7 3.8b 31 0-91
NIED IV 11 00 00 00 36.80N 140.60E 5 3.7W **¶17200510**
ISCJB IV 11 00 00 11.2–.50 36.80N–.04 140.58E–.05 21–3 3.7b
JMA IV 11 00 00 11.7 36.83N 140.50E 5–2 4.0
IDC IV 11 00 00 15.3–4.3 36.85N 140.27E 33–32 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S232.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_S47.00000°,δ47.00000°,λ-93.00000°. $M_0$3.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.5km az=36.6.
JMA Event type fe.
IDC Error ellipse: s-maj=21.3km s-min=18.6km az=90.0.
JMA IV 11 00 09 43.7–.10 39.24N 142.55E 28–1 3.5
¶600583098
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 11 01 24 46.9–.10 35.83N 140.88E 11–1 3.6
NIED IV 11 01 24 00 35.80N 140.90E 14 3.4W **¶600583132**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S33.00000°,δ53.00000°,λ-11.00000°. NP2:ϕ_S129.00000°,δ81.00000°,λ-143.00000°. $M_0$1.59000×10^{14}
ISC IV 11 01 26 04.7–1.7 37.30N–.04 141.26E–.07 13–9 3.4b 28 0-50
IDC IV 11 01 25 53.4–9.2 36.81N 142.42E 0 3.6,3.5 **¶17200516**
NIED IV 11 01 26 00 37.30N 141.20E 26 3.8W,3.5
ISCJB IV 11 01 26 05.3–1.1 37.29N–.04 141.26E–.08 26–5 3.4b,3.5
JMA IV 11 01 26 07.3–.10 37.31N 141.10E 29–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=164.8km s-min=64.4km az=136.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S103.00000°,δ41.00000°,λ-38.00000°. NP2:ϕ_S224.00000°,δ66.00000°,λ-125.00000°. $M_0$5.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.1km az=21.3.
JMA Event type fe.
ISC IV 11 02 00 34.6–.99 36.74N–.03 140.52E–.05 7–7 3.8b 25 0-83
NIED IV 11 02 00 00 36.70N 140.70E 5 3.6W **¶602597200**
IDC IV 11 02 00 33.4–1.1 36.77N 140.63E 0 3.9,3.9L
ISCJB IV 11 02 00 34.3–2.0 36.68N–.04 140.72E–.06 15–13 3.6s,3.6b
JMA IV 11 02 00 34.9 36.70N 140.66E 4–1 4.0,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S352.00000°,δ26.00000°,λ-81.00000°. NP2:ϕ_S163.00000°,δ65.00000°,λ-94.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=15.0km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.7km az=28.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S355.00000°,δ50.00000°,λ-79.00000°. NP2:ϕ_S158.00000°,δ42.00000°,λ-102.00000°. Principal axes: T Plg4.0000°,Azm77.0000°; N Plg8.0000°,Azm168.0000°; P Plg81.0000° ,Azm321.0000°
ISC IV 11 02 21 53.6–1.3 36.44N–.04 141.77E–.08 20–9 3.7b 35 1-83
NIED IV 11 02 21 00 36.40N 141.70E 35 3.7W **¶602945418**
IDC IV 11 02 21 43.5–3.6 35.23N 142.06E 0 3.8,3.7
JMA IV 11 02 21 55.0–.10 36.42N 141.68E 56–4 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S238.00000°,δ42.00000°,λ-44.00000°. NP2:ϕ_S4.00000°,δ62.00000°,λ-123.00000°. $M_0$4.00000×10^{14}
IDC Error ellipse: s-maj=92.4km s-min=22.6km az=175.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 11 02 46 17.6–.10 36.31N 141.06E 46–2 2.8
¶600583176
ISC IV 11 04 05 38.3–.88 36.83N–.04 140.54E–.04 10 3.7b 16 0-95
NIED IV 11 04 05 00 36.80N 140.50E 5 3.7W **¶17200522**
IDC IV 11 04 05 36.4–1.3 36.87N 140.55E 0 4.1s,4.1
ISCJB IV 11 04 05 37.5–.57 36.82N–.04 140.55E–.05 10 4.2s,3.7b
JMA IV 11 04 05 38.2 36.83N 140.52E 6–1 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S49.00000°,δ41.00000°,λ-91.00000°. NP2:ϕ_S230.00000°,δ49.00000°,λ-90.00000°. $M_0$4.20000×10^{14}
IDC Error ellipse: s-maj=20.7km s-min=17.4km az=19.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.6km az=31.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_S271.00000°,δ57.00000°,λ-66.00000°. NP2:ϕ_S52.00000°,δ40.00000°,λ-122.00000°. Principal axes: T Plg9.0000°,Azm344.0000°; N Plg20.0000°,Azm77.0000°; P Plg68.0000° ,Azm231.0000°
ISC IV 11 04 27 33.8–2.0 37.05N–.07 141.39E–.09 13–10 3.5b 19 0-49
NIED IV 11 04 27 00 36.90N 141.50E 5 3.5W **¶600583239**
IDC IV 11 04 27 30.1–4.0 36.70N 141.58E 0 3.6,3.5b
JMA IV 11 04 27 32.8–.10 36.93N 141.54E 44–2 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S166.00000°,δ44.00000°,λ-143.00000°. NP2:ϕ_S48.00000°,δ65.00000°,λ-52.00000°. $M_0$2.19000×10^{14}
IDC Error ellipse: s-maj=91.8km s-min=30.6km az=163.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 11 04 39 53.5–.10 38.29N 141.66E 54–1 3.6
¶600583242
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 04 51 44.3–.48 37.47N–.03 141.38E–.03 26–2 5.0b,4.4s 620 0-148
NIED IV 11 04 51 00 37.50N 141.30E 32 4.8W,4.4s **¶16416730**
IDC IV 11 04 51 40.7–.45 37.48N 141.28E 0 4.9,4.8
BJI IV 11 04 51 41.5 37.41N 141.36E 21 4.9b,4.7b
ISCJB IV 11 04 51 44.9–.39 37.48N–.02 141.22E–.03 36–3 4.9b,4.4s
JMA IV 11 04 51 44.8–.10 37.47N 141.32E 29–1 5.0,4.4s
MOS IV 11 04 51 45.0–.87 37.80N 141.15E 27 5.2b,4.5s
NEIC IV 11 04 51 46.9–.49 37.50N 141.22E 40–4 5.0b,4.5s
GCMT IV 11 04 51 46.9–.40 37.54N 141.24E 30–1 4.9W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S170.00000°,δ51.00000°,λ-22.00000°. NP2:ϕ_S274.00000°,δ73.00000°,λ-139.00000°. $M_0$1.66000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=151.4.
JMA Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=99.7.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=145.0. Recorded [4 JMA] in Fukushima.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c27; s82,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.32±.19 $M_{\theta\theta}$-0.24±.12; $M_{\phi\phi}$1.56±.14; $M_{r\theta}$1.99±.19; $M_{\theta\phi}$-1.77±.09; $M_{\phi r}$1.12±.16; Best double couple: NP1:ϕ_S293.00000°,δ62.00000° ,λ-143.00000°. NP2:ϕ_S183.00000°,δ58.00000°,λ-34.00000°. Principal axes: T 2.6490,Plg2.0000°,Azm57.0000°; N 0.9580,Plg45.0000°,Azm326.0000° ; P -3.6040,Plg45.0000°,Azm149.0000° $M_0$3.12700×10^{16}
JMA IV 11 05 00 12.4–.10 36.64N 140.62E 48–1 2.6
¶600583244
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 05 08 35.0–2.0 37.26N–.06 141.96E–.06 11–12 3.9b 45 1-146
NIED IV 11 05 08 00 37.30N 141.90E 35 3.9W **¶600583251**
IDC IV 11 05 08 33.4–.67 37.25N 142.00E 0 4.0,3.9
NEIC IV 11 05 08 38.4–.55 37.24N 141.81E 35 4.2b,3.9
JMA IV 11 05 08 38.1–.20 37.35N 141.90E 28–4 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S208.00000°,δ47.00000°,λ-131.00000°. NP2:ϕ_S80.00000°,δ56.00000°,λ-55.00000°. $M_0$8.91000×10^{14}
IDC Error ellipse: s-maj=19.3km s-min=17.2km az=113.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.9km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 11 05 11 27.2 40.06N 141.95E 24–1 3.8
¶600583253
JMA Event type fe.
JMA IV 11 06 52 41.2–.10 39.12N 142.38E 30–2 3.5
NIED IV 11 06 52 00 39.10N 142.40E 53 3.9W **¶600583311**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S78.00000°,δ42.00000°,λ22.00000°. NP2:ϕ_S331.00000°,δ75.00000°,λ130.00000°. $M_0$7.63000×10^{14}
ISC IV 11 07 06 41.1–1.9 37.51N–.06 141.5E–.10 33–8 3.5b 19 1-68
NIED IV 11 07 06 00 37.40N 141.60E 41 3.8W **¶600583332**
IDC IV 11 07 06 39.9–1.1 38.11N 141.21E 0 3.7,3.6L
ISCJB IV 11 07 06 41.0–1.2 37.52N–.06 141.5E–.10 49–8 3.5b,3.6L
JMA IV 11 07 06 41.4–.10 37.49N 141.49E 40–2 4.0,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S117.00000°,δ80.00000°,λ179.00000°. NP2:ϕ_S207.00000°,δ89.00000°,λ10.00000°. $M_0$5.46000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=22.7km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=18.2km s-min=8.5km az=24.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 11 07 29 30.6–2.2 38.74N–.06 142.14E–.08 0–13 3.5b 21 1-62
NIED IV 11 07 29 00 38.80N 142.10E 47 3.8W **¶17200536**
IDC IV 11 07 29 33.2–1.1 39.17N 142.05E 0 3.7,3.5
JMA IV 11 07 29 36.1–.10 38.78N 142.06E 41–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S219.00000°,δ56.00000°,λ-140.00000°. NP2:ϕ_S104.00000°,δ58.00000°,λ-42.00000°. $M_0$6.57000×10^{14}
IDC Error ellipse: s-maj=32.8km s-min=23.3km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 07 51 27.0–1.3 36.92N–.07 141.90E–.07 19 3.5b 14 1-90
NIED IV 11 07 51 00 36.90N 142.00E 32 3.5W **¶600583383**
IDC IV 11 07 51 25.2–1.1 36.73N 142.33E 0 3.8,3.8L
ISCJB IV 11 07 51 26.2–.81 36.85N–.06 142.09E–.07 19 3.5b,3.8L
JMA IV 11 07 51 29.0–.30 36.91N 141.95E 40–5 3.5,3.8L

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ35.00000°,λ-137.00000°. NP2:ϕ_s154.00000°,δ67.00000°,λ-63.00000°. $M_0$1.91000×10^{14}
IDC Error ellipse: s-maj=34.9km s-min=20.4km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.9km az=138.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**IV**	**11 08 16 12.7–.34**	**36.95N–.02**	**140.58E–.02**	**13–1**	**6.5s,6.4b**	**2771**	**0-165**
NIED	IV	11 08 16 00	36.90N	140.70E	5	6.6W,6.4b		¶16416735
ISCJB	IV	11 08 16 10.1–.39	36.96N–.01	140.44E–.01	4–2	6.5s,6.3b		
IDC	IV	11 08 16 10.7–.28	36.98N	140.47E	0	6.4,6.4s		
MOS	IV	11 08 16 10.9–.94	37.07N	140.51E	12	6.5b,6.5s		
BJI	IV	11 08 16 11.1	36.90N	140.70E	30	6.8,6.8s		
GCMT	IV	11 08 16 12.7–.00	37.00N	140.54E	12	6.7W,6.8s		
NEIC	IV	11 08 16 12.7–.06	37.00N	140.40E	11	6.6W,6.6W		
JMA	IV	11 08 16 12.0	36.95N	140.67E	6–1	7.0,6.6W		
NEIC	IV	11 08 16 13.0–.00	37.01N	140.68E	15	7.0,6.6W		
NEIC	IV	11 08 16 33.5–.00	37.20N	140.33E	10	7.0,6.6W		

ISC Event type de.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ41.00000°,λ-99.00000°. NP2:ϕ_s132.00000°,δ50.00000°,λ-82.00000°. $M_0$9.58000×10^{18}
ISCJB Event type de. Error ellipse: s-maj=2.2km s-min=1.6km az=144.9.
IDC Error ellipse: s-maj=10.6km s-min=7.8km az=63.0.
MOS Error ellipse: s-maj=5.7km s-min=3.7km az=101.3.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c339; s138,c598;Duration: 5s2 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.27±.00 $M_{\theta\theta}$0.76±.00; $M_{\phi\phi}$0.51±.01; $M_{r\theta}$-0.01±.01; $M_{\theta\phi}$-0.33±.00; $M_{\phi r}$0.45±.01; Best double couple: NP1:ϕ_s139.00000°,δ53.00000°,λ-75.00000°. NP2:ϕ_s295.00000°,δ39.00000°,λ-109.00000°. Principal axes: T 1.0230,Plg7.0000°,Azm218.0000°; N 0.3560,Plg12.0000°,Azm310.0000°; P -1.3770,Plg76.0000°,Azm97.0000° $M_0$1.20000×10^{19}
NEIC Event type de. Error ellipse: s-maj=2.4km s-min=1.8km az=135.0. Six people killed by landslides at Iwaki and one person killed in Ibaraki. Felt [V] at Misawa and [IV] at Akiruno, Tokyo, Yokohama, Yokosuka and Zama. Felt in much of central and northern Honshu. Recorded [6L JMA] in Fukushima and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s45.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm135.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm315.0000°
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s175.00000°,δ50.00000°,λ-70.00000°. NP2:ϕ_s326.00000°,δ44.00000°,λ-111.00000°. Principal axes: T Plg3.0000°,Azm251.0000°; N Plg15.0000°,Azm342.0000°; P Plg75.0000°,Azm151.0000°
NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.06 $M_{\theta\theta}$0.48 $M_{\phi\phi}$0.57 $M_{r\theta}$-0.02 $M_{\theta\phi}$-0.15 $M_{\phi r}$0.02 Best double couple: NP1:ϕ_s143.00000°,δ46.00000°,λ-90.00000°. NP2:ϕ_s324.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 0.6800,Plg0.0000°,Azm233.0000°; N 0.3700,Plg0.0000°,Azm143.0000°; P -1.0600,Plg89.0000°,Azm45.0000° $M_0$0.90000×10^{19}
NEIC Event type se. Moment Tensor Solution. s102 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.18 $M_{\theta\theta}$0.66 $M_{\phi\phi}$0.51 $M_{r\theta}$-0.08 $M_{\theta\phi}$-0.27 $M_{\phi r}$-0.22 Best double couple: NP1:ϕ_s316.00000°,δ48.00000°,λ-79.00000°. NP2:ϕ_s119.00000°,δ44.00000°,λ-102.00000°. Principal axes: T 0.8700,Plg2.0000°,Azm38.0000°; N 0.3400,Plg8.0000°,Azm128.0000°; P -1.2100,Plg81.0000°,Azm295.0000° $M_0$1.00000×10^{19}

JMA	**IV**	**11 08 17 47.5**	**36.89N**	**140.72E**	**9–1**	**5.7**		
								¶600583391
JMA	**IV**	**11 08 24 03.7**	**36.95N**	**140.67E**	**8**	**3.9**		
								¶600583396

JMA Event type fe.

ISC	**IV**	**11 08 30 04.1–.58**	**36.99N–.07**	**140.66E–.07**	**35**	**4.1b**	**33**	**2-152**
IDC	IV	11 08 29 58.9–.68	37.02N	140.61E	0	4.3,4.1		¶16587460
ISCJB	IV	11 08 30 02.1–.43	36.97N–.05	140.78E–.05	35	4.1b,4.1		
NEIC	IV	11 08 30 04.6–1.1	36.91N	140.51E	41–10	4.3b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=16.6km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.7km az=146.1.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.1km az=59.0.

ISC	**IV**	**11 08 33 34.7–.88**	**36.94N–.07**	**140.74E–.10**	**63–7**	**3.7b**	**15**	**0-147**
IDC	IV	11 08 33 26.5–.94	36.97N	140.60E	0	3.9,3.7		¶16706382
ISCJB	IV	11 08 33 33.4–.66	36.93N–.07	140.7E–.10	72–4	3.6b,3.7		
JMA	IV	11 08 33 39.6	36.98N	140.64E	10–1	4.2,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=23.7km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=11.4km az=17.3.
JMA Event type fe.

ISC	**IV**	**11 08 33 43.7–1.0**	**36.8N–.10**	**140.6E–.10**	**35**	**4.0b**	**15**	**2-147**
ISCJB	IV	11 08 33 40.6–.88	36.8N–.10	140.82E–.10	35	4.0b		¶17200541
IDC	IV	11 08 33 46.9–4.0	36.82N	140.28E	62–35	3.9,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=11.1km az=166.7.
IDC Error ellipse: s-maj=34.0km s-min=18.5km az=73.0.

ISC	**IV**	**11 08 34 00.3–.46**	**36.88N–.07**	**140.37E–.06**	**89**	**4.5b**	**92**	**2-152**
BJI	IV	11 08 33 46.9	36.94N	140.84E	15	4.7b		¶17200545
MOS	IV	11 08 33 55.6–1.4	37.08N	140.62E	54	4.6b		
NEIC	IV	11 08 33 57.3–.90	37.02N	140.44E	53–8	4.7b		
IDC	IV	11 08 33 58.7–2.7	37.03N	140.42E	64–24	4.3,4.2		
ISCJB	IV	11 08 33 59.4–.32	36.96N–.06	140.39E–.05	89	4.4b,4.2		

ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Fukushima and Ibaraki.
ISCJB Event type fe.

ISC	**IV**	**11 08 35 58.7–.95**	**36.9N–.10**	**140.6E–.10**	**50**	**4.0b**	**14**	**2-147**
ISCJB	IV	11 08 35 55.5–.92	36.9N–.10	140.8E–.10	50	3.9b		¶16706386
IDC	IV	11 08 35 59.5–5.4	36.89N	140.44E	57–46	3.9,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=11.2km az=164.7.
IDC Error ellipse: s-maj=43.9km s-min=22.9km az=75.0.

ISC	**IV**	**11 08 36 54.8–.80**	**37.0N–.10**	**140.62E–.09**	**35**	**4.0b**	**30**	**2-147**
ISCJB	IV	11 08 36 52.3–.54	36.93N–.06	140.80E–.06	35	4.0b		¶17200546
IDC	IV	11 08 36 55.9–4.2	37.02N	140.50E	44–39	4.0,3.9		
NEIC	IV	11 08 36 56.3–.90	36.99N	140.49E	48–7	4.2b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=5.3km az=148.0.
IDC Error ellipse: s-maj=29.0km s-min=19.4km az=79.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.0km az=115.0.

IDC	**IV**	**11 08 37 27.5–1.1**	**36.87N**	**141.00E**	**0**	**4.3,4.0**		
								¶17200550

IDC Error ellipse: s-maj=41.4km s-min=25.7km az=110.0.

IDC	**IV**	**11 08 37 43.7–1.8**	**36.75N**	**140.92E**	**0**	**4.3,4.1b**		
								¶17200553

IDC Error ellipse: s-maj=49.8km s-min=38.3km az=173.0.

ISC	**IV**	**11 08 38 35.9–1.3**	**36.97N–.04**	**140.63E–.04**	**5–8**	**3.8b**	**34**	**0-147**
ISCJB	IV	11 08 38 36.1–.59	37.01N–.03	140.74E–.05	17–4	3.9b		¶17200556
JMA	IV	11 08 38 36.5	37.01N	140.65E	8–1	4.0		
IDC	IV	11 08 38 42.5–3.6	36.96N	140.45E	54–32	3.9,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=16.6.
JMA Event type fe.
IDC Error ellipse: s-maj=23.3km s-min=17.4km az=85.0.

ISC	**IV**	**11 08 39 26.0–.89**	**36.9N–.10**	**140.75E–.10**	**50**	**3.9b**	**13**	**2-147**
ISCJB	IV	11 08 39 24.0–.75	36.9N–.10	140.83E–.09	50	3.8b		¶17200559
IDC	IV	11 08 39 26.9–4.2	36.97N	140.62E	59–38	3.8,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=9.6km az=165.5.
IDC Error ellipse: s-maj=31.0km s-min=21.3km az=85.0.

ISC	**IV**	**11 08 45 12.5–1.0**	**36.92N–.03**	**140.75E–.05**	**11–6**	**4.4b**	**106**	**0-161**
IDC	IV	11 08 45 10.9–.56	36.96N	140.76E	0	5.8,5.8s		¶16505325
ISCJB	IV	11 08 45 11.7–.58	36.93N–.02	140.84E–.05	18–3	5.6s,4.4b		
JMA	IV	11 08 45 12.5	36.95N	140.72E	7–1	4.7,4.4b		
MOS	IV	11 08 45 13.8–1.5	36.91N	140.71E	30	4.6b,4.4b		
NEIC	IV	11 08 45 15.7–1.9	36.90N	140.78E	34–13	4.5b,4.4b		

ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.7km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.7km az=18.0.
MOS Error ellipse: s-maj=9.7km s-min=7.1km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.9km az=103.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.

ISC	**IV**	**11 08 48 11.0–.74**	**36.88N–.08**	**140.69E–.05**	**10**	**3.8b**	**26**	**0-147**
ISCJB	IV	11 08 48 10.0–.61	36.88N–.04	140.77E–.05	10	3.9b		¶16587454
IDC	IV	11 08 48 09.7–1.1	36.78N	140.78E	0	4.1,4.0L		
JMA	IV	11 08 48 10.5–.10	36.90N	140.68E	7–1	3.9,4.0L		
NEIC	IV	11 08 48 14.6–.62	36.76N	140.67E	35	4.5b,4.0L		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=139.6.
IDC Error ellipse: s-maj=33.0km s-min=19.6km az=173.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=11.8km az=175.0.

ISC	**IV**	**11 08 49 59.8–1.6**	**36.94N–.06**	**140.75E–.06**	**1–10**	**3.6b**	**24**	**0-147**
IDC	IV	11 08 49 59.4–.95	36.88N	140.86E	0	3.9,3.8L		¶17200562
ISCJB	IV	11 08 50 00.2–.73	37.00N–.04	140.84E–.07	13–3	3.8b,3.8L		
JMA	IV	11 08 50 00.8	37.02N	140.70E	10–1	3.8,3.8L		

ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=19.6km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.6km az=23.0.
JMA Event type fe.

ISC	**IV**	**11 08 50 59.4–1.2**	**36.96N–.03**	**140.64E–.04**	**5–7**	**4.1b**	**56**	**0-147**
ISCJB	IV	11 08 50 59.8–.59	36.98N–.03	140.85E–.05	18–3	4.1b		¶16505326
JMA	IV	11 08 51 00.6	37.00N	140.75E	11–1	4.3		
NEIC	IV	11 08 51 03.9–.80	36.89N	140.75E	38–7	4.4b		
IDC	IV	11 08 51 05.3–2.3	36.98N	140.62E	46–22	4.0,4.0L		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.1km az=19.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.0km az=108.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=89.0.

IDC	**IV**	**11 08 54 15.4–1.6**	**36.95N**	**140.76E**	**0**	**4.0,3.9b**		
								¶17200563

IDC Error ellipse: s-maj=35.2km s-min=25.6km az=62.0.

JMA	**IV**	**11 09 00 12.4**	**36.99N**	**140.73E**	**12–1**	**4.5**		
								¶600583401

ISC	**IV**	**11 09 11 37.0–1.3**	**36.96N–.07**	**140.65E–.06**	**7–15**		**12**	**0-61**
ISCJB	IV	11 09 11 36.7–1.1	36.98N–.05	140.9E–.10	18–8	3.8b		¶16706409
JMA	IV	11 09 11 37.8	37.01N	140.70E	11–1	3.4		
IDC	IV	11 09 11 41.8–2.6	36.16N	140.31E	0	3.9,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.3km az=11.5.
IDC Error ellipse: s-maj=49.7km s-min=16.3km az=29.0.

ISC	**IV**	**11 09 12 31.5–.81**	**36.88N–.03**	**140.70E–.03**	**16–4**	**4.7b**	**272**	**0-152**
BJI	IV	11 09 12 28.9	36.72N	140.67E	15	5.2s,5.1b		¶17200569
IDC	IV	11 09 12 29.1–.44	36.92N	140.64E	0	4.5,4.5		
JMA	IV	11 09 12 30.7	36.89N	140.69E	6–1	4.7,4.5		
ISCJB	IV	11 09 12 31.1–.40	36.90N–.02	140.59E–.03	19–2	4.6s,4.6b		
MOS	IV	11 09 12 34.0–.98	37.27N	140.50E	27	4.9b,4.6b		
NEIC	IV	11 09 12 35.1–.20	36.89N	140.50E	35	4.7b,4.6b		

ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=138.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=28.5.
MOS Error ellipse: s-maj=7.6km s-min=5.3km az=100.3.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.5km az=153.0. Recorded [3 JMA] in Fukushima and Ibaraki.

ISC	**IV**	**11 09 13 18.3–1.2**	**36.96N–.04**	**140.60E–.09**	**8–9**	**4.2b**	**16**	**0-147**
ISCJB	IV	11 09 13 17.9–.67	36.92N–.04	140.7E–.10	18–6	4.2b		¶17200573
IDC	IV	11 09 13 17.2–.98	36.85N	140.56E	0	4.5,4.2		
JMA	IV	11 09 13 18.4	36.95N	140.66E	7–1	4.1,4.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.7km az=11.0.
IDC Error ellipse: s-maj=40.7km s-min=25.2km az=91.0.

ISC	**IV**	**11 09 19 05.7–.68**	**38.12N–.05**	**142.30E–.06**	**29–4**	**4.2b**	**50**	**1-146**
ISCJB	IV	11 09 19 02.8–1.1	38.10N–.04	142.36E–.05	21–7	4.8s,4.1b		¶16416752
JMA	IV	11 09 19 04.8–.30	38.14N	142.33E	37	4.5,4.1b		
IDC	IV	11 09 19 06.0–.65	38.09N	142.34E	29–3	4.9,4.9s		
NEIC	IV	11 09 19 05.1–2.0	38.10N	142.38E	23–14	4.2b,4.9s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.5km az=42.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=15.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.1km az=122.0. Recorded [2 JMA] in Fukushima, Iwate and Miyagi.

ISC	**IV**	**11 09 23 23.0–.90**	**36.99N–.03**	**140.83E–.05**	**12–5**	**4.0b**	**46**	**0-147**
IDC	IV	11 09 23 21.2–.72	37.00N	140.84E	0	4.1,4.0		¶16418128
ISCJB	IV	11 09 23 22.4–.71	36.96N–.03	140.93E–.06	19–4	3.9b,4.0		
JMA	IV	11 09 23 23.5	36.96N	140.81E	10–1	4.3,4.0		
NEIC	IV	11 09 23 26.3–4.1	36.97N	140.84E	35–29	4.0b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=14.7km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.3km az=13.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s114.00000°,δ51.00000°,λ-66.00000°. NP2:ϕ_s258.00000°,δ45.00000°,λ-117.00000°. Principal axes: T Plg3.0000°,Azm187.0000°; N Plg19.0000°,Azm278.0000°; P Plg71.0000°,Azm88.0000°
NEIC Event type fe. Error ellipse: s-maj=16.0km s-min=8.0km az=67.0. Recorded [3 JMA] in Fukushima.

ISC	**IV**	**11 09 30 33.8–.88**	**36.97N–.03**	**140.58E–.03**	**10–5**	**5.0s,4.7b**	**236**	**0-149**
ISCJB	IV	11 09 30 32.5–.52	36.97N–.02	140.50E–.03	8–3	5.0s,4.5b		¶16416815
BJI	IV	11 09 30 33.2	36.90N	140.56E	19	5.2s,4.9		
JMA	IV	11 09 30 33.4	36.91N	140.72E	6–1	4.7,4.9		
IDC	IV	11 09 30 34.3–4.2	36.93N	140.58E	15–25	5.3,5.2s		
MOS	IV	11 09 30 35.9–1.2	37.02N	140.54E	33	4.7b,5.2s		
NEIC	IV	11 09 30 38.4–.54	37.00N	140.47E	37–5	4.7b,5.2s		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.2km az=25.5.
JMA Event type fe.
IDC Error ellipse: s-maj=15.4km s-min=11.7km az=101.0.
MOS Error ellipse: s-maj=9.7km s-min=5.7km az=94.1.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.0km az=120.0. Recorded [3 JMA] in Fukushima.

JMA	**IV**	**11 09 31 33.6**	**36.96N**	**140.66E**	**8–1**	**3.9**		
								¶600583413

JMA Event type fe.

JMA	**IV**	**11 09 34 20.7**	**36.95N**	**140.68E**	**8–1**	**3.0**		
								¶602553083

ISC	**IV**	**11 09 36 19.5–.81**	**36.93N–.03**	**140.57E–.03**	**3–5**	**4.9s,4.8b**	**346**	**0-156**
BJI	IV	11 09 36 17.0	36.80N	140.84E	15	5.1b,5.0s		¶16416817
ISCJB	IV	11 09 36 18.1–.65	36.94N–.02	140.42E–.03	0–4	4.8b,4.7s		
JMA	IV	11 09 36 20.2	36.90N	140.68E	8–1	4.8,4.7s		
IDC	IV	11 09 36 20.9–2.6	36.91N	140.57E	12–16	4.6,4.5		
MOS	IV	11 09 36 24.1–.90	37.25N	140.39E	31	5.0b,4.5		
NEIC	IV	11 09 36 25.1–.55	36.95N	140.42E	37–5	4.8b,4.5		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=42.3.
JMA Event type fe.
IDC Error ellipse: s-maj=11.8km s-min=10.1km az=102.0.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=93.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=141.0. Recorded [4 JMA] in Fukushima.

ISC	**IV**	**11 09 39 23.9–1.6**	**36.98N–.10**	**140.66E–.06**	**6–19**		**12**	**0-61**
ISCJB	IV	11 09 39 23.9–.93	37.01N–.06	140.83E–.10	17–7	3.6b		¶17200574
JMA	IV	11 09 39 24.5	37.03N	140.68E	9–1	3.4		
IDC	IV	11 09 39 25.7–2.4	36.64N	140.63E	0	3.8,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=9.5km az=9.4.
JMA Event type fe.
IDC Error ellipse: s-maj=40.3km s-min=18.5km az=16.0.

JMA	**IV**	**11 09 42 08.3**	**36.99N**	**140.75E**	**9–1**	**3.3**		

¶600583414
JMA Event type fe.
ISC IV 11 09 46 47.6–1.1 36.97N–.04 140.66E–.06 9–8 3.6b 23 0-91
IDC IV 11 09 46 45.5–.86 36.78N 140.77E 0 3.7,3.6 ¶17200577
ISCJB IV 11 09 46 47.3–.66 36.97N–.04 140.80E–.08 18–4 3.5b,3.6
JMA IV 11 09 46 48.2 36.99N 140.73E 10–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=14.3km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.7km az=13.4.
JMA Event type fe.
ISC IV 11 09 52 25.6–.78 37.11N–.05 141.50E–.07 33 3.5b 20 1-147
IDC IV 11 09 52 20.8–.89 37.13N 141.51E 0 3.7,3.6 ¶600583419
ISCJB IV 11 09 52 24.0–.68 37.10N–.04 141.60E–.06 33 3.5b,3.6
JMA IV 11 09 52 26.9–.20 37.18N 141.43E 42–2 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=15.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=177.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 11 09 57 26.5–.67 38.21N–.04 141.91E–.07 66–6 3.8b 40 1-146
ISCJB IV 11 09 57 25.5–.72 38.24N–.04 141.90E–.09 71–5 3.7b ¶17200579
JMA IV 11 09 57 26.9–.10 38.26N 141.87E 62–1 4.1
IDC IV 11 09 57 26.4–.73 38.18N 141.65E 64–6 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.9km az=19.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=11.5km az=103.0.
ISC IV 11 10 00 04.1–.72 36.95N–.03 140.61E–.03 4–4 4.7s,4.6b 235 0-147
BJI IV 11 10 00 03.2 36.82N 140.58E 11 5.2b,4.9s ¶602553159
JMA IV 11 10 00 04.4 36.94N 140.72E 6–1 4.7,4.9s
ISCJB IV 11 10 00 04.6–.46 36.92N–.02 140.73E–.03 19–3 4.9s,4.5b
MOS IV 11 10 00 06.9–1.1 36.96N 140.71E 35 4.8b,4.5b
NEIC IV 11 10 00 08.8–.51 36.93N 140.61E 36–4 4.7b,4.5b
IDC IV 11 10 00 08.4–4.0 36.92N 140.61E 33–29 4.4,4.3
ISC Event type fe.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ61.00000°,λ-113.00000°. NP2:ϕ_s131.00000°,δ36.00000°,λ-55.00000°. Principal axes: T Plg13.0000°,Azm17.0000°; N Plg20.0000°,Azm282.0000°; P Plg66.0000°,Azm139.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=27.9.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=98.9.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=120.0. Felt in eastern Honshu. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=14.6km s-min=11.2km az=99.0.
JMA IV 11 10 01 22.1 36.90N 140.67E 8–1 3.3
¶600583428
ISC IV 11 10 05 37.2–1.2 36.99N–.04 140.56E–.08 8–9 3.7b 21 0-147
ISCJB IV 11 10 05 37.0–.55 36.94N–.03 140.68E–.10 20–4 3.7b ¶17200580
IDC IV 11 10 05 36.0–.77 36.98N 140.43E 0 3.9,3.8
JMA IV 11 10 05 37.4 36.95N 140.67E 7–1 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.4km az=8.7.
IDC Error ellipse: s-maj=27.9km s-min=18.5km az=91.0.
ISC IV 11 10 05 55.6–.49 36.81N–.04 141.13E–.05 10 4.2b 60 0-147
ISCJB IV 11 10 05 54.0–.35 36.77N–.03 141.21E–.04 10 4.2b ¶602553157
JMA IV 11 10 05 55.6 36.80N 141.12E 16–1 4.5
MOS IV 11 10 05 59.0–1.2 36.77N 141.17E 54 4.4b
IDC IV 11 10 06 00.8–2.2 36.74N 141.16E 52–20 4.2,4.1
NEIC IV 11 10 06 01.1–.83 36.77N 141.13E 55–7 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=0.9.
MOS Error ellipse: s-maj=10.6km s-min=7.7km az=80.8.
IDC Error ellipse: s-maj=15.3km s-min=10.6km az=71.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.3km az=114.0.
JMA IV 11 10 10 43.4–.10 38.63N 141.77E 46–1 3.6
¶600583436
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 10 11 25.6–1.0 36.97N–.05 140.80E–.09 10 3.7b 16 0-147
JMA IV 11 10 11 24.1 36.99N 140.71E 9–1 3.3 ¶17200584
IDC IV 11 10 11 26.9–.85 36.44N 140.45E 0 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.6km s-min=19.6km az=179.0.
ISC IV 11 10 17 12.0–1.9 36.50N–.04 141.35E–.05 15–11 3.9b 45 1-147
IDC IV 11 10 17 10.3–.61 36.49N 141.31E 0 4.3L,4.1 ¶600583454
ISCJB IV 11 10 17 12.7–.89 36.50N–.03 141.39E–.05 29–6 3.8b,4.1
JMA IV 11 10 17 15.1–.10 36.57N 141.24E 42–2 3.9,4.1
NEIC IV 11 10 17 16.0–1.1 36.44N 141.27E 42–11 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.6km az=164.3.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.3km az=50.0.
JMA IV 11 10 20 05.5 36.96N 140.77E 10–1 3.5
¶600583456
JMA IV 11 10 20 53.2 36.98N 140.65E 10–1 3.5
¶600583462
ISC IV 11 10 28 38.2–1.4 36.94N–.05 140.9E–.10 14–7 3.4b 15 0-61
IDC IV 11 10 28 35.9–1.1 37.13N 141.04E 0 4.4,4.4s ¶16706426
ISCJB IV 11 10 28 37.4–1.1 36.94N–.05 140.96E–.09 20–6 3.5b,4.4s
JMA IV 11 10 28 39.3 36.98N 140.72E 12–1 3.9,4.4s
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=23.8km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.2km az=27.0.
ISC IV 11 10 29 11.5–1.1 36.96N–.03 140.70E–.05 6–7 3.8b 35 0-91
ISCJB IV 11 10 29 10.9–.58 36.94N–.03 140.78E–.05 11–3 3.9b ¶17200586
IDC IV 11 10 29 10.8–.66 36.74N 140.70E 0 4.0,3.9
JMA IV 11 10 29 11.3 36.97N 140.74E 12–1 4.3,3.9
NEIC IV 11 10 29 17.6–1.1 36.74N 140.44E 50–10 4.0b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=14.0.
IDC Error ellipse: s-maj=18.2km s-min=14.5km az=101.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ63.00000°,λ-108.00000°. NP2:ϕ_s192.00000°,δ32.00000°,λ-59.00000°. Principal axes: T Plg16.0000°,Azm79.0000°; N Plg16.0000°,Azm344.0000°; P Plg67.0000°,Azm211.0000°
NEIC Event type fe. Error ellipse: s-maj=13.1km s-min=9.3km az=103.0. Recorded [3 JMA] in Fukushima.
ISC IV 11 10 31 09.1–.88 36.91N–.03 140.64E–.05 7–5 4.1b 57 0-152
IDC IV 11 10 31 08.0–.52 36.87N 140.65E 0 4.2,4.1 ¶16418133
ISCJB IV 11 10 31 09.2–.56 36.88N–.03 140.78E–.05 18–4 4.0b,4.1
JMA IV 11 10 31 09.7 36.90N 140.69E 9–1 4.3,4.1
NEIC IV 11 10 31 14.3–.73 36.83N 140.55E 46–7 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=13.2km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.1km az=17.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.3km az=109.0. Recorded [3 JMA] in Ibaraki.
ISC IV 11 10 34 48.5–.97 36.92N–.03 140.69E–.04 11–6 3.8b 30 0-69
IDC IV 11 10 34 46.7–.97 36.93N 140.75E 0 3.8,3.7 ¶600583482
ISCJB IV 11 10 34 47.8–.59 36.90N–.03 140.79E–.05 19–4 3.6b,3.7
JMA IV 11 10 34 48.4 36.92N 140.69E 7–1 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=18.8km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=18.1.
JMA Event type fe.
JMA IV 11 10 38 07.2 36.99N 140.76E 10–1 3.2
¶600583487
JMA IV 11 10 39 26.0 36.98N 140.65E 11–1 3.0
¶600583493
JMA IV 11 10 43 26.0 36.86N 140.66E 10 2.8
¶600583512
ISC IV 11 10 44 59.0–1.1 36.98N–.05 140.71E–.06 6–7 3.7b 28 0-147
IDC IV 11 10 44 58.1–.74 36.99N 140.87E 0 3.8,3.7 ¶600583513
JMA IV 11 10 44 59.0 36.97N 140.86E 8–1 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.6km s-min=16.4km az=108.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s22.00000°,δ58.00000°,λ-68.00000°. NP2:ϕ_s166.00000°,δ38.00000°,λ-120.00000°. Principal axes: T Plg10.0000°,Azm97.0000°; N Plg18.0000°,Azm190.0000°; P Plg69.0000°,Azm339.0000°
ISC IV 11 10 49 26.1–1.1 36.95N–.03 140.79E–.06 11–7 21 0-61
IDC IV 11 10 49 24.6–2.6 36.88N 140.85E 0 3.5,3.4 ¶17200591
ISCJB IV 11 10 49 25.3–.74 36.92N–.03 140.84E–.07 13–4 3.5b,3.4
JMA IV 11 10 49 26.3 36.97N 140.68E 8–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=39.5km s-min=27.9km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.2km az=16.4.
JMA IV 11 10 53 12.5 36.88N 140.67E 7–1 3.0
¶600583534
JMA IV 11 10 59 06.6–.20 36.58N 140.99E 32–1 3.7
¶602553143
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 11 11 07 49.1–1.2 36.96N–.05 140.72E–.06 8–9 3.4b 21 0-61
ISCJB IV 11 11 07 48.7–2.1 36.96N–.03 140.90E–.07 15–14 3.4b ¶600583545
IDC IV 11 11 07 48.1–1.1 36.99N 140.64E 0 3.6,3.5
JMA IV 11 11 07 49.7 36.99N 140.75E 10–1 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.2km az=4.1.
IDC Error ellipse: s-maj=27.6km s-min=19.7km az=95.0.
ISC IV 11 11 12 40.9–1.1 36.93N–.03 140.63E–.05 4–7 4.0b 55 0-147
ISCJB IV 11 11 12 40.3–.61 36.91N–.03 140.78E–.05 16–4 4.0b ¶16587457
JMA IV 11 11 12 41.0 36.95N 140.66E 8–1 4.3
NEIC IV 11 11 12 43.9–2.7 36.82N 140.55E 26–20 4.3b
IDC IV 11 11 12 46.8–1.8 36.86N 140.40E 47–18 4.0,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=20.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s284.00000°,δ73.00000°,λ-97.00000°. NP2:ϕ_s128.00000°,δ18.00000°,λ-68.00000°. Principal axes: T Plg28.0000°,Azm20.0000°; N Plg7.0000°,Azm286.0000°; P Plg61.0000°,Azm184.0000°
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.4km az=80.0.
IDC Error ellipse: s-maj=18.3km s-min=10.9km az=83.0.
JMA IV 11 11 18 52.4 36.98N 140.69E 21–1 2.8
¶600583560
JMA IV 11 11 21 46.6 36.95N 140.63E 9–1 3.1
¶600583564
ISC IV 11 11 23 22.1–1.1 36.72N–.03 140.61E–.04 4–7 3.6b 24 0-91
ISCJB IV 11 11 23 21.4–.60 36.71N–.03 140.65E–.05 9–3 3.5b ¶17200600
JMA IV 11 11 23 21.8 36.70N 140.63E 7–1 3.8
IDC IV 11 11 23 21.5–.92 36.77N 140.55E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.5km az=27.7.
JMA Event type fe.
IDC Error ellipse: s-maj=22.1km s-min=19.3km az=120.0.
ISC IV 11 11 23 58.6–1.0 36.99N–.05 140.64E–.06 12–10 13 0-61
IDC IV 11 11 23 56.7–5.8 36.97N 141.08E 0 3.8,3.5 ¶602553152
ISCJB IV 11 11 23 57.9–.95 36.95N–.06 140.82E–.09 20–7 3.6b,3.5
JMA IV 11 11 23 58.9 37.00N 140.63E 10–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=117.4km s-min=44.0km az=25.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=8.7km az=25.7.
JMA Event type fe.
JMA IV 11 11 32 48.8 36.96N 140.63E 9–1 2.9
¶600583578
ISC IV 11 11 53 54.0–1.2 36.98N–.03 140.55E–.05 10–8 3.7b 25 0-78
ISCJB IV 11 11 53 53.0–.93 36.94N–.03 140.81E–.06 16–6 3.6b ¶600583604
IDC IV 11 11 53 52.5–.89 36.95N 140.65E 0 3.8,3.7
JMA IV 11 11 53 53.7 36.96N 140.71E 7–1 3.7,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=12.8.
IDC Error ellipse: s-maj=22.3km s-min=17.3km az=98.0.
JMA Event type fe.
JMA IV 11 11 55 28.2 36.97N 140.71E 9–1 2.8
¶600583606
JMA IV 11 11 57 20.3 36.89N 140.70E 7–1 3.1
¶600583615
JMA IV 11 11 58 27.1 36.95N 140.61E 9–1 2.8
¶600583624
JMA IV 11 12 01 27.6–.10 37.11N 141.12E 52–1 3.2
¶600583637
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 11 12 05 03.9 36.96N 140.69E 13–1 3.6
¶600583639
JMA Event type fe.
ISC IV 11 12 06 17.1–1.1 36.94N–.03 140.60E–.04 5–7 3.8b 49 0-147
IDC IV 11 12 06 16.4–.56 36.88N 140.47E 0 4.0,3.9 ¶16505332
ISCJB IV 11 12 06 17.0–1.4 36.94N–.02 140.68E–.04 15–9 3.8b,3.9
JMA IV 11 12 06 17.1 36.95N 140.62E 9–1 4.0,3.9
NEIC IV 11 12 06 18.6–3.2 36.83N 140.52E 15–20 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=12.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.7km az=26.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s274.00000°,δ72.00000°,λ-91.00000°. NP2:ϕ_s97.00000°,δ18.00000°,λ-87.00000°. Principal axes: T Plg27.0000°,Azm5.0000°; N Plg1.0000°,Azm275.0000°; P Plg63.0000°,Azm183.0000°
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.3km az=90.0.
JMA IV 11 12 07 39.9 36.98N 140.63E 10–1 3.2
¶600583641
JMA IV 11 12 07 55.0 36.97N 140.64E 10–1 3.5
¶600583644
ISC IV 11 12 12 03.2–1.1 36.98N–.04 140.60E–.07 6–9 3.5b 23 0-61
ISCJB IV 11 12 12 02.8–.66 36.92N–.03 140.76E–.08 14–4 3.7b ¶600583646
JMA IV 11 12 12 03.2 36.95N 140.66E 8–1 3.5
IDC IV 11 12 12 13.2–.99 35.51N 137.20E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.2km az=15.7.
IDC Error ellipse: s-maj=28.1km s-min=18.4km az=74.0.
ISC IV 11 12 16 27.0–.99 36.99N–.04 140.67E–.06 10–6 3.6b 29 0-147
IDC IV 11 12 16 25.3–.83 36.98N 140.72E 0 3.9,3.9L ¶17200610
ISCJB IV 11 12 16 26.7–.00 36.96N–.03 140.76E–.06 15–6 3.6b,3.9L
JMA IV 11 12 16 26.9 36.98N 140.65E 10–1 3.9,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=17.9km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.1km az=20.3.
JMA IV 11 12 17 29.1 36.94N 140.71E 6–1 3.2
¶600583652
JMA IV 11 12 20 08.6 36.96N 140.63E 9–1 2.5
¶600583658
JMA IV 11 12 25 50.3 36.91N 140.67E 8–1 2.8
¶600583672
JMA IV 11 12 26 42.8 36.99N 140.65E 11–1 2.5
¶17200613
ISC IV 11 12 27 38.5–1.2 36.92N–.03 140.71E–.04 5–8 3.6b 25 0-61
ISCJB IV 11 12 27 38.0–.59 36.91N–.02 140.74E–.06 11–4 3.4b ¶600583677
IDC IV 11 12 27 38.1–1.2 36.96N 140.65E 0 3.7L,3.6
JMA IV 11 12 27 38.3 36.92N 140.71E 6–1 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.9km az=11.6.
IDC Error ellipse: s-maj=26.0km s-min=21.5km az=89.0.
JMA Event type fe.
ISC IV 11 12 29 59.4–2.0 36.70N–.04 141.37E–.08 13–11 3.5b 22 1-60
IDC IV 11 12 29 58.0–1.7 36.90N 141.44E 0 3.6,3.5 ¶17200615

JMA IV 11 12 30 03.5 36.79N 141.11E 13–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=21.1km az=63.0.
ISC IV 11 12 47 19.9–1.1 36.97N–.03 140.59E–.04 6–7 4.1b 61 0-147
NIED IV 11 12 47 00 36.90N 140.70E 5 4.1W **¶16505333**
ISCJB IV 11 12 47 19.6–.56 36.93N–.03 140.77E–.04 16–4 4.1b
IDC IV 11 12 47 19.0–.49 36.95N 140.50E 0 4.3,4.1
JMA IV 11 12 47 20.0 36.95N 140.68E 7–1 4.3,4.1
NEIC IV 11 12 47 24.4–.35 36.96N 140.57E 35 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ45.00000°,λ-115.00000°. NP2:ϕ_s246.00000°,δ50.00000°,λ-68.00000°. $M_0$1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.7km az=26.4.
IDC Error ellipse: s-maj=18.4km s-min=12.7km az=94.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ47.00000°,λ-102.00000°. NP2:ϕ_s239.00000°,δ45.00000°,λ-77.00000°. Principal axes: T Plg1.0000°,Azm140.0000°; N Plg9.0000°,Azm50.0000°; P Plg81.0000°,Azm236.0000°
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.0km az=144.0.
ISC IV 11 12 52 44.0–.88 36.91N–.03 140.67E–.05 20–3 3.6b 24 0-61
IDC IV 11 12 52 38.2–2.0 37.10N 141.18E 0 3.6,3.5 **¶17200619**
ISCJB IV 11 12 52 43.6–.59 36.90N–.03 140.75E–.06 28–4 3.4b,3.5
JMA IV 11 12 52 44.5–.10 36.91N 140.64E 19–2 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=53.3km s-min=20.7km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.4km az=14.0.
JMA Event type fe.
JMA IV 11 12 54 39.0 36.89N 140.69E 7–1 2.7
¶600583704
JMA IV 11 12 58 03.0 36.94N 140.68E 7–1 3.2
¶602945424
ISC IV 11 12 59 35.1–1.1 36.94N–.04 140.70E–.07 10–9 15 0-61
ISCJB IV 11 12 59 34.3–.91 36.91N–.04 140.8E–.10 14–6 3.6b **¶600583707**
JMA IV 11 12 59 34.9 36.95N 140.68E 6–1 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=5.5km az=11.9.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s244.00000°,δ52.00000°,λ-69.00000°. NP2:ϕ_s33.00000°,δ42.00000°,λ-114.00000°. Principal axes: T Plg5.0000°,Azm320.0000°; N Plg16.0000°,Azm51.0000°; P Plg73.0000°,Azm213.0000°
ISC IV 11 12 59 49.7–1.0 36.92N–.04 140.71E–.06 13–7 3.6b 19 0-61
ISCJB IV 11 12 59 48.7–.92 36.91N–.04 140.82E–.08 21–5 3.5b **¶600583709**
IDC IV 11 12 59 48.0–7.6 35.89N 141.02E 55–57 4.1L,3.6
JMA IV 11 12 59 49.8 36.92N 140.72E 10–1 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.6km az=18.5.
IDC Error ellipse: s-maj=68.4km s-min=20.5km az=65.0.
JMA Event type fe.
ISC IV 11 13 02 29.7–1.8 37.73N–.05 141.72E–.09 32–11 3.6b 23 1-68
IDC IV 11 13 02 23.8–1.9 37.83N 142.06E 0 3.7b,3.6 **¶17200622**
ISCJB IV 11 13 02 29.3–1.3 37.72N–.04 141.8E–.10 49–9 3.6b,3.6
JMA IV 11 13 02 31.7–.10 37.77N 141.61E 44–2 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=47.3km s-min=21.9km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=6.8km az=4.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 13 19 20.8–.72 37.04N–.05 141.94E–.06 29–5 3.6b 34 1-146
ISCJB IV 11 13 19 18.4–1.4 37.02N–.04 142.06E–.07 23–9 3.6b **¶17200624**
JMA IV 11 13 19 20.1–.20 37.12N 141.94E 18–3 4.0
IDC IV 11 13 19 21.2–.67 36.96N 142.11E 30–5 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.8km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=13.7km az=117.0.
JMA IV 11 13 21 02.0 36.99N 140.77E 8–1 3.7
¶17200625
ISC IV 11 13 21 19.7–.99 36.92N–.06 140.7E–.10 23–7 3.7b 18 0-91
NIED IV 11 13 21 00 37.00N 140.70E 11 3.8W **¶600583725**
IDC IV 11 13 21 16.1–.89 36.89N 140.69E 0 3.8,3.7b
ISCJB IV 11 13 21 18.8–.57 36.92N–.05 140.7E–.10 30–4 3.7b,3.7b
JMA IV 11 13 21 20.1 36.95N 140.61E 17–1 4.0,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ23.00000°,λ-160.00000°. NP2:ϕ_s192.00000°,δ82.00000°,λ-68.00000°. $M_0$6.49000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=14.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.1km az=19.5.
JMA Event type fe.
JMA IV 11 13 23 56.6 36.97N 140.70E 8–1 2.9
¶602945425
ISC IV 11 13 24 12.2–.48 38.24N–.04 142.41E–.05 30–2 4.4b,3.8s 229 1-150
BJI IV 11 13 24 08.5 38.20N 142.40E 5 4.7b,4.5b **¶16455922**
MOS IV 11 13 24 09.8–1.1 38.21N 142.45E 25 4.6b,4.5b
NEIC IV 11 13 24 10.6–2.0 38.14N 142.41E 18–12 4.5b,4.5b
IDC IV 11 13 24 14.4–.65 38.15N 142.40E 46–5 4.3,4.2
JMA IV 11 13 24 29.7 36.97N 140.62E 11–1 3.9,4.2
ISC Event type se.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=90.6.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=118.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.4km s-min=10.5km az=127.0.
JMA Event type fe.
JMA IV 11 13 40 59.7 36.97N 140.64E 9–1 2.8
¶600583738
JMA IV 11 13 44 33.9 36.96N 140.64E 11–1 2.8
¶600583744
JMA IV 11 13 51 18.3 36.95N 140.74E 13–1 3.6
¶600583749
JMA IV 11 13 54 25.8 36.96N 140.71E 7–1 3.1
¶600583751
ISC IV 11 13 59 50.8–1.1 36.95N–.03 140.64E–.04 7–7 3.9b 38 0-147
NIED IV 11 13 59 00 36.90N 140.70E 5 3.9W **¶600583756**
ISCJB IV 11 13 59 50.4–.59 36.94N–.03 140.71E–.05 17–4 3.9b,2.9s
JMA IV 11 13 59 50.6 36.94N 140.67E 7–1 4.2,2.9s
IDC IV 11 13 59 54.6–3.9 36.88N 140.43E 33–30 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ41.00000°,λ-85.00000°. NP2:ϕ_s294.00000°,δ49.00000°,λ-95.00000°. $M_0$7.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=19.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ54.00000°,λ-104.00000°. NP2:ϕ_s128.00000°,δ38.00000°,λ-72.00000°. Principal axes: T Plg8.0000°,Azm25.0000°; N Plg11.0000°,Azm293.0000°; P Plg76.0000°,Azm151.0000°
IDC Error ellipse: s-maj=20.0km s-min=14.6km az=82.0.
ISC IV 11 14 02 05.8–.93 36.89N–.03 140.71E–.04 13–5 4.1b,4.0s 67 0-147
NIED IV 11 14 02 00 36.90N 140.70E 5 4.0W,4.0s **¶16424682**
IDC IV 11 14 02 03.8–.53 36.88N 140.66E 0 4.1,4.0
ISCJB IV 11 14 02 05.2–.56 36.89N–.03 140.76E–.05 20–3 4.0b,3.9s
JMA IV 11 14 02 05.8 36.91N 140.68E 8–1 4.1,3.9s
NEIC IV 11 14 02 07.6–2.1 36.88N 140.70E 24–15 4.2b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ28.00000°,λ-90.00000°. NP2:ϕ_s170.00000°,δ62.00000°,λ-90.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=13.2km s-min=11.7km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.6km az=21.5.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.3km az=90.0.
ISC IV 11 14 07 08.0–.98 36.90N–.03 140.70E–.05 13–7 3.4b 23 0-61
IDC IV 11 14 07 06.1–1.1 36.89N 140.70E 0 3.6,3.5 **¶17200628**
ISCJB IV 11 14 07 07.2–.72 36.88N–.03 140.80E–.06 19–5 3.4b,3.5
JMA IV 11 14 07 08.0 36.89N 140.70E 9–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=17.4km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.9km az=15.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ57.00000°,λ-91.00000°. NP2:ϕ_s167.00000°,δ33.00000°,λ-88.00000°. Principal axes: T Plg12.0000°,Azm76.0000°; N Plg1.0000°,Azm346.0000°; P Plg78.0000°,Azm251.0000°
JMA IV 11 14 11 32.4 36.92N 140.71E 7–1 2.6
¶17200631
ISC IV 11 14 12 06.1–1.0 36.99N–.05 140.70E–.05 10–9 3.6b 18 0-61
ISCJB IV 11 14 12 05.8–.67 37.01N–.03 140.78E–.07 20–5 3.6b **¶600583780**
JMA IV 11 14 12 06.7 37.03N 140.70E 10–1 3.4
IDC IV 11 14 12 07.4–2.5 36.75N 140.05E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.3km az=5.6.
JMA Event type fe.
IDC Error ellipse: s-maj=55.9km s-min=25.9km az=52.0.
ISC IV 11 14 37 20.6–.68 36.90N–.03 140.65E–.05 10 3.6b 22 0-147
NIED IV 11 14 37 00 36.90N 140.70E 5 3.6W **¶600583804**
ISCJB IV 11 14 37 19.2–.59 36.88N–.03 140.76E–.06 10 3.4b
JMA IV 11 14 37 20.8 36.90N 140.67E 6–1 3.9
IDC IV 11 14 37 24.3–4.8 36.91N 140.45E 35–38 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s189.00000°,δ65.00000°,λ-85.00000°. $M_0$3.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.2km az=7.8.
JMA Event type fe.
IDC Error ellipse: s-maj=27.9km s-min=17.5km az=81.0.
JMA IV 11 14 49 02.0 36.99N 140.70E 9–1 2.8
¶600583822
JMA IV 11 15 00 48.8 36.96N 140.67E 7–1 2.5
¶600583845
JMA IV 11 15 02 55.3 36.90N 140.71E 8–1 2.6
¶600583853
ISC IV 11 15 14 28.3–.96 36.98N–.04 140.61E–.05 10 3.4b 13 0-61
ISCJB IV 11 15 14 27.4–.62 36.98N–.03 140.65E–.07 10 3.2b **¶17200641**
JMA IV 11 15 14 27.7 36.97N 140.65E 10–2 2.8
IDC IV 11 15 14 34.9–8.9 36.85N 140.26E 33–58 3.2,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.4km az=19.7.
IDC Error ellipse: s-maj=63.6km s-min=24.6km az=70.0.
ISC IV 11 15 21 39.3–.66 36.87N–.03 140.50E–.04 14–4 4.8b,3.9s 349 0-147
NIED IV 11 15 21 00 36.80N 140.50E 5 4.5W,3.9s **¶16417149**
IDC IV 11 15 21 37.6–.44 36.89N 140.40E 0 4.6,4.5
ISCJB IV 11 15 21 37.7–.62 36.85N–.03 140.38E–.03 8–4 4.7b,3.9s
JMA IV 11 15 21 38.9 36.84N 140.51E 7–1 4.8,3.9s
BJI IV 11 15 21 38.6 36.65N 140.66E 38 4.9b,4.6b
MOS IV 11 15 21 42.2–.96 37.18N 140.35E 29 4.9b,4.6b
NEIC IV 11 15 21 43.8–.49 36.90N 140.26E 41–4 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ42.00000°,λ-93.00000°. NP2:ϕ_s49.00000°,δ48.00000°,λ-88.00000°. $M_0$6.11000×10^{15}
IDC Error ellipse: s-maj=13.6km s-min=10.5km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=155.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s54.00000°,δ55.00000°,λ-99.00000°. NP2:ϕ_s249.00000°,δ36.00000°,λ-78.00000°. Principal axes: T Plg10.0000°,Azm150.0000°; N Plg7.0000°,Azm59.0000°; P Plg78.0000°,Azm292.0000°
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=97.2.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=143.0. Recorded [3 JMA] in Fukushima and Miyagi.
ISC IV 11 15 43 14.1–.41 36.91N–.04 140.70E–.05 10 4.4b,3.3s 128 0-147
NIED IV 11 15 43 00 36.90N 140.70E 8 4.2W,3.3s **¶16417150**
ISCJB IV 11 15 43 12.7–.25 36.91N–.03 140.74E–.04 10 4.3b,3.5s
JMA IV 11 15 43 14.3 36.94N 140.65E 11–1 4.5,3.5s
MOS IV 11 15 43 14.4–1.5 36.94N 140.75E 25 4.5b,3.5s
NEIC IV 11 15 43 18.6–.67 36.92N 140.52E 42–6 4.4b,3.5s
IDC IV 11 15 43 19.2–1.5 36.88N 140.61E 48–14 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ48.00000°,λ-133.00000°. NP2:ϕ_s161.00000°,δ57.00000°,λ-53.00000°. $M_0$2.36000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=37.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ49.00000°,λ-121.00000°. NP2:ϕ_s147.00000°,δ49.00000°,λ-59.00000°. Principal axes: T Plg0.0000°,Azm36.0000°; N Plg23.0000°,Azm306.0000°; P Plg67.0000°,Azm126.0000°
MOS Error ellipse: s-maj=8.9km s-min=6.4km az=87.8.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=125.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=12.2km s-min=9.7km az=70.0.
JMA IV 11 15 47 20.0 36.94N 140.67E 8–1 2.6
¶600583903
JMA IV 11 16 00 46.2 36.84N 140.61E 5–1 3.2
¶600583913
JMA IV 11 16 12 00.5–.30 36.93N 140.64E 4–2 3.0
¶602945426
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 11 16 15 46.4–.67 36.02N–.05 141.99E–.07 23 4.1b 40 1-75
NIED IV 11 16 15 00 36.10N 141.90E 20 4.1W **¶16505337**
IDC IV 11 16 15 43.0–.83 36.01N 142.00E 0 3.9,3.9
ISCJB IV 11 16 15 44.3–.49 36.05N–.04 142.07E–.06 23 3.9b,3.9
NEIC IV 11 16 15 45.2–3.2 35.98N 142.03E 16–20 4.4b,3.9
JMA IV 11 16 15 46.5–.20 36.13N 141.93E 61 3.7,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ23.00000°,λ69.00000°. NP2:ϕ_s34.00000°,δ69.00000°,λ98.00000°. $M_0$1.52000×10^{15}
IDC Error ellipse: s-maj=21.1km s-min=15.1km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=35.2.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.2km az=93.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 11 16 19 24.8–.56 36.15N–.06 141.76E–.07 23 4.2b,3.6s 95 1-142
JMA IV 11 16 19 19.7 37.10N 140.66E 15–1 4.0,3.6s **¶602553166**
IDC IV 11 16 19 21.2–.65 36.05N 141.96E 0 4.1,4.0
ISCJB IV 11 16 19 23.3–.47 36.12N–.04 141.85E–.07 23 4.1b,3.8s
MOS IV 11 16 19 23.7–.82 36.10N 141.84E 27 4.5b,3.8s
NEIC IV 11 16 19 30.9–.92 36.42N 141.61E 52–8 4.3b,3.8s
ISC Event type se.
JMA Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=14.6km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=24.8.
MOS Error ellipse: s-maj=12.4km s-min=7.2km az=125.5.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=8.7km az=138.0. Recorded [3 JMA] in Fukushima.
JMA IV 11 16 23 52.5 36.98N 140.70E 11–1 3.8
¶602553099
JMA Event type fe.
ISC IV 11 16 30 22.6–2.0 37.62N–.05 141.94E–.09 12–12 3.7b 17 1-61
JMA IV 11 16 30 22.8–.20 37.66N 142.01E 13–2 3.8 **¶17200653**
IDC IV 11 16 30 22.7–2.3 37.33N 142.22E 0 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=49.2km s-min=28.0km az=71.0.
ISC IV 11 16 43 48.4–.78 35.82N–.06 141.17E–.08 26 3.6b,3.5s 20 0-87
IDC IV 11 16 43 45.0–.82 35.95N 141.24E 0 3.7,3.6 **¶600583977**
ISCJB IV 11 16 43 46.3–.65 35.82N–.06 141.28E–.08 26 3.6s,3.5b
JMA IV 11 16 43 46.6–.20 35.76N 141.28E 29–2 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=22.8km s-min=16.0km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.1km az=30.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 11 16 45 26.5–1.0 36.69N–.03 140.54E–.05 10–6 3.8b 38 0-83
NIED IV 11 16 45 00 36.70N 140.60E 5 3.8W **¶17200657**
ISCJB IV 11 16 45 25.8–.69 36.67N–.03 140.67E–.05 18–4 3.7b

JMA IV 11 16 45 26.5 36.70N 140.57E 4–1 3.7
IDC IV 11 16 45 31.6–2.0 36.64N 140.54E 50–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ27.00000°,λ-98.00000°. NP2:ϕ_s184.00000°,δ63.00000°,λ-86.00000°. $M_0$5.56000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.9km az=33.2.
JMA Event type fe.
IDC Error ellipse: s-maj=15.1km s-min=9.9km az=57.0.
JMA IV 11 16 48 40.6 36.86N 140.51E 6–2 2.0
¶602553172
ISC IV 11 16 56 58.5–1.7 36.83N–.06 140.73E–.06 3–12 3.4b 18 0-61
IDC IV 11 16 56 57.3–2.0 36.80N 140.87E 0 3.5,3.4L **¶600583985**
JMA IV 11 16 56 59.7 36.88N 140.68E 9–1 3.4,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=24.3km az=53.0.
JMA Event type fe.
ISC IV 11 17 05 33.2–1.1 36.94N–.04 140.62E–.06 6–10 3.4b 19 0-61
NIED IV 11 17 05 00 36.90N 140.70E 62 3.7W **¶17200659**
IDC IV 11 17 05 31.6–1.5 36.92N 140.82E 0 3.5,3.4
JMA IV 11 17 05 33.1 36.92N 140.71E 6–1 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ40.00000°,λ131.00000°. NP2:ϕ_s115.00000°,δ61.00000°,λ61.00000°. $M_0$3.54000×10^{14}
IDC Error ellipse: s-maj=37.5km s-min=21.5km az=62.0.
JMA Event type fe.
ISC IV 11 17 18 03.6–.49 37.00N–.04 140.62E–.05 10 4.0b 38 0-82
NIED IV 11 17 18 00 37.00N 140.70E 26 3.8W **¶16418142**
ISCJB IV 11 17 18 01.2–.45 37.04N–.04 140.83E–.06 10 4.0b
JMA IV 11 17 18 05.0 36.99N 140.63E 19–1 4.1
IDC IV 11 17 18 08.6–2.3 37.01N 140.50E 50–21 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ27.00000°,λ122.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ75.00000°. $M_0$6.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.9km az=30.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s34.00000°,δ67.00000°,λ81.00000°. NP2:ϕ_s236.00000°,δ25.00000°,λ111.00000°. Principal axes: T Plg67.0000°,Azm287.0000°; N Plg9.0000°,Azm38.0000°; P Plg21.0000° ,Azm131.0000°
IDC Error ellipse: s-maj=16.3km s-min=12.0km az=90.0.
JMA IV 11 17 43 54.5 36.92N 140.71E 6–1 2.8
¶600584032
JMA Event type fe.
JMA IV 11 18 08 30.7 36.98N 140.65E 9–1 2.5
¶600584045
JMA IV 11 18 16 46.5 36.88N 140.67E 8–1 2.7
¶600584051
JMA IV 11 18 29 19.8 36.99N 140.61E 12–1 3.5
¶600584057
JMA Event type fe.
ISC IV 11 19 00 21.0–1.1 36.99N–.03 140.71E–.05 6–9 19 0-57
ISCJB IV 11 19 00 20.9–.68 37.00N–.03 140.72E–.07 7–5 3.4b **¶17200668**
IDC IV 11 19 00 20.7–2.6 36.70N 140.76E 0 3.7,3.4
JMA IV 11 19 00 21.0 37.00N 140.70E 7–1 2.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.6km az=11.6.
IDC Error ellipse: s-maj=49.3km s-min=31.5km az=39.0.
ISC IV 11 19 11 54.4–2.4 39.00N–.06 142.44E–.08 6–13 3.6b 18 1-59
IDC IV 11 19 11 53.4–1.4 38.91N 142.62E 0 3.6,3.3 **¶17200669**
JMA IV 11 19 11 57.5–.10 38.99N 142.39E 31–2 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=28.8km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 11 20 03 43.4–.95 36.95N–.03 140.69E–.04 9–5 4.2b,3.5s 131 0-152
NIED IV 11 20 03 00 36.90N 140.70E 5 4.2W,3.5s **¶602553141**
BJI IV 11 20 03 37.8 36.37N 140.89E 10 4.9b,4.4b
IDC IV 11 20 03 42.2–.43 36.95N 140.59E 0 4.3,4.3
ISCJB IV 11 20 03 42.9–.50 36.94N–.02 140.76E–.04 18–3 4.2b,3.5s
JMA IV 11 20 03 43.4 36.94N 140.67E 6–1 4.4,3.5s
MOS IV 11 20 03 46.3–1.3 37.04N 140.68E 42 4.4b,3.5s
NEIC IV 11 20 03 47.7–.81 36.99N 140.58E 37–7 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ39.00000°,λ-89.00000°. NP2:ϕ_s222.00000°,δ51.00000°,λ-91.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=12.3km s-min=10.9km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.5km az=28.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s232.00000°,δ54.00000°,λ-85.00000°. NP2:ϕ_s43.00000°,δ36.00000°,λ-97.00000°. Principal axes: T Plg9.0000°,Azm318.0000°; N Plg4.0000°,Azm49.0000°; P Plg80.0000° ,Azm162.0000°
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=91.8.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=127.0. Recorded [3 JMA] in Fukushima.
JMA IV 11 20 09 07.8 36.93N 140.64E 8–1 2.8
¶600584121
ISC IV 11 20 11 19.5–1.5 38.19N–.09 142.2E–.10 35 3.1b 14 1-58
ISCJB IV 11 20 11 18.3–1.2 38.15N–.06 142.16E–.10 35 3.2b **¶600584122**
JMA IV 11 20 11 22.8–.10 38.34N 141.90E 59–1 3.2
IDC IV 11 20 11 26.3–7.5 37.61N 140.76E 58–60 3.5L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=9.1km az=171.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=53.4km s-min=26.9km az=68.0.
ISC IV 11 20 11 26.4–1.1 36.89N–.04 140.60E–.05 15–10 17 0-2
ISCJB IV 11 20 11 27.3–.82 36.91N–.03 140.68E–.06 8–5 **¶600584124**
JMA IV 11 20 11 27.5 36.91N 140.65E 6–1 3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.2km az=23.0.
JMA Event type fe.
ISC IV 11 20 27 21.6–.88 36.97N–.03 140.61E–.04 16–5 3.8b 40 0-147
NIED IV 11 20 27 00 37.00N 140.60E 8 3.8W **¶602553140**
ISCJB IV 11 20 27 21.0–.49 36.95N–.03 140.71E–.05 22–3 3.8b
JMA IV 11 20 27 21.8 36.97N 140.60E 10–1 3.9
IDC IV 11 20 27 26.6–2.2 36.91N 140.63E 57–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ41.00000°,λ-105.00000°. NP2:ϕ_s153.00000°,δ50.00000°,λ-77.00000°. $M_0$5.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=18.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s302.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s149.00000°,δ46.00000°,λ-70.00000°. Principal axes: T Plg1.0000°,Azm45.0000°; N Plg14.0000°,Azm315.0000°; P Plg76.0000° ,Azm139.0000°
IDC Error ellipse: s-maj=15.7km s-min=12.8km az=93.0.
ISC IV 11 20 31 29.5–1.5 36.85N–.05 140.99E–.10 33–5 19 0-61
JMA IV 11 20 31 32.7 36.91N 140.72E 6–1 3.6 **¶17200680**
IDC IV 11 20 31 33.0–7.5 36.74N 141.00E 74–74 3.9,3.9
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=85.7km s-min=60.8km az=165.0.
ISC IV 11 20 55 10.3–1.0 37.00N–.05 140.71E–.04 9–8 3.6b 24 0-61
NIED IV 11 20 55 00 37.00N 140.70E 5 3.5W **¶17200687**
IDC IV 11 20 55 08.2–1.8 37.05N 140.84E 0 3.9,3.7
ISCJB IV 11 20 55 09.5–.68 37.02N–.03 140.81E–.06 17–4 3.7b,3.7
JMA IV 11 20 55 10.5 37.04N 140.69E 11–1 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ29.00000°,λ-145.00000°. NP2:ϕ_s186.00000°,δ74.00000°,λ-66.00000°. $M_0$1.76000×10^{14}
IDC Error ellipse: s-maj=40.2km s-min=23.1km az=52.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.9km az=6.8.
JMA Event type fe.
JMA IV 11 20 57 13.0 36.89N 140.69E 8–1 2.7
¶600584171

ISC IV 11 21 03 36.9–.48 38.40N–.05 141.94E–.04 55–4 4.3b,3.5s 179 0-146
BJI IV 11 21 02 58.7 36.40N 145.80E 10 4.9b,4.6b **¶16418150**
NIED IV 11 21 03 00 38.40N 141.80E 53 4.2W,4.6b
MOS IV 11 21 03 35.4–1.2 38.43N 141.93E 57 4.4b,4.6b
ISCJB IV 11 21 03 36.0–.46 38.41N–.03 141.88E–.05 61–3 4.3b,4.6b
JMA IV 11 21 03 37.2–.10 38.43N 141.82E 54–1 4.1,4.6b
IDC IV 11 21 03 37.3–.49 38.38N 141.88E 58–4 4.1,4.0
NEIC IV 11 21 03 38.8–.67 38.38N 141.81E 72–6 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ39.00000°,λ66.00000°. NP2:ϕ_s40.00000°,δ55.00000°,λ108.00000°. $M_0$2.06000×10^{15}
MOS Error ellipse: s-maj=8.9km s-min=5.9km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=35.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.2km s-min=10.9km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=129.0. Recorded [3 JMA] in Iwate.
ISC IV 11 21 21 19.1–.50 38.88N–.05 141.93E–.06 51 4.5b,3.5s 159 0-145
NIED IV 11 21 21 00 38.90N 142.00E 53 4.3W,3.5s **¶16427673**
IDC IV 11 21 21 12.0–.70 38.86N 141.90E 0 4.2,4.2b
MOS IV 11 21 21 15.0–1.0 38.89N 141.82E 29 4.6b,4.2b
ISCJB IV 11 21 21 16.8–.35 38.88N–.04 142.06E–.05 51 4.4b,3.5s
NEIC IV 11 21 21 17.0–2.0 38.78N 141.86E 34–14 4.7b,3.5s
BJI IV 11 21 21 17.0 38.76N 142.03E 64 4.9b,4.6b
JMA IV 11 21 21 18.7–.10 38.89N 141.98E 51–2 4.2,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ59.00000°. NP2:ϕ_s24.00000°,δ72.00000°,λ101.00000°. $M_0$2.86000×10^{15}
IDC Error ellipse: s-maj=19.3km s-min=14.7km az=112.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=99.1.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.8km az=136.3.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.7km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 11 21 29 27.9–.95 36.89N–.03 140.69E–.05 14–7 3.3b 25 0-61
NIED IV 11 21 29 00 36.90N 140.70E 8 3.4W **¶17200692**
IDC IV 11 21 29 25.4–1.6 36.82N 140.84E 0 3.7L,3.6
ISCJB IV 11 21 29 27.1–.72 36.87N–.03 140.79E–.06 17–5 3.2b,3.6
JMA IV 11 21 29 28.0 36.90N 140.68E 9–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ32.00000°,λ-105.00000°. NP2:ϕ_s185.00000°,δ60.00000°,λ-81.00000°. $M_0$1.59000×10^{14}
IDC Error ellipse: s-maj=40.4km s-min=21.3km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.7km az=14.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ55.00000°,λ-102.00000°. NP2:ϕ_s19.00000°,δ37.00000°,λ-74.00000°. Principal axes: T Plg9.0000°,Azm278.0000°; N Plg10.0000°,Azm186.0000°; P Plg77.0000° ,Azm50.0000°
JMA IV 11 21 29 39.7–.10 38.26N 141.89E 59–1 3.8
¶600584193
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 11 21 38 35.0–.30 39.42N 142.73E 27–3 3.5
NIED IV 11 21 38 00 39.40N 142.70E 62 4.3W **¶600584195**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ27.00000°,λ-169.00000°. NP2:ϕ_s268.00000°,δ85.00000°,λ-63.00000°. $M_0$3.59000×10^{15}
JMA IV 11 21 59 00.9 36.91N 140.69E 7–1 2.6
¶600584208
ISC IV 11 22 22 45.7–1.8 36.93N–.09 140.7E–.10 10 9 0-57
IDC IV 11 22 22 44.8–2.3 36.94N 140.73E 0 3.5,3.3 **¶600584225**
JMA IV 11 22 22 47.5 36.97N 140.71E 10–1 3.9,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=21.0km az=2.0.
JMA Event type fe.
ISC IV 11 22 44 12.6–1.5 38.85N–.05 142.1E–.10 42–12 4.0b 35 0-89
ISCJB IV 11 22 44 11.8–.89 38.85N–.05 142.1E–.10 51–6 4.0b **¶17200699**
JMA IV 11 22 44 12.4–.10 38.85N 142.09E 45–1 4.3
IDC IV 11 22 44 17.1–2.7 38.80N 142.01E 86–24 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=7.0km az=17.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=15.6km az=93.0.
ISC IV 11 22 45 29.9–1.1 38.55N–.05 142.14E–.05 34–3 4.5b 106 1-145
NIED IV 11 22 45 00 38.60N 141.90E 50 4.3W **¶16455929**
MOS IV 11 22 45 28.8–1.2 38.65N 141.98E 33 4.6b
JMA IV 11 22 45 32.3–.10 38.62N 141.90E 48–1 4.2
IDC IV 11 22 45 33.7–2.5 38.59N 141.83E 62–21 4.3,4.1
NEIC IV 11 22 45 34.0–.88 38.61N 141.86E 66–7 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ30.00000°,λ59.00000°. NP2:ϕ_s21.00000°,δ65.00000°,λ107.00000°. $M_0$3.70000×10^{15}
MOS Error ellipse: s-maj=9.8km s-min=7.0km az=112.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=12.3km az=120.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=115.0.
ISC IV 11 23 02 01.1–1.0 36.97N–.03 140.80E–.05 11–6 3.7b 33 0-83
ISCJB IV 11 23 01 59.4–.86 36.96N–.03 140.97E–.05 12–4 3.7b **¶16418158**
IDC IV 11 23 01 59.2–.87 36.97N 140.88E 0 3.9,3.7
JMA IV 11 23 02 01.2 36.97N 140.81E 10–1 3.9,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.1km az=16.6.
IDC Error ellipse: s-maj=23.6km s-min=18.9km az=86.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s30.00000°,δ47.00000°,λ-95.00000°. NP2:ϕ_s217.00000°,δ43.00000°,λ-85.00000°. Principal axes: T Plg2.0000°,Azm123.0000°; N Plg4.0000°,Azm33.0000°; P Plg86.0000° ,Azm240.0000°
ISC IV 11 23 03 13.6–1.2 36.93N–.05 140.70E–.06 8–11 3.6b 18 0-57
IDC IV 11 23 03 12.7–1.7 36.87N 140.75E 0 3.6,3.4 **¶17200700**
ISCJB IV 11 23 03 13.8–.77 36.95N–.03 140.77E–.07 15–6 3.4b,3.4
JMA IV 11 23 03 14.3 36.97N 140.70E 11–1 4.0,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=20.3km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.0km az=12.6.
JMA Event type fe.
ISC IV 11 23 08 17.1–.30 35.44N–.02 140.70E–.02 17–1 6.2s,6.0b 2173 0-162
NIED IV 11 23 08 00 35.40N 141.00E 26 6.3W,6.0b **¶602546097**
BJI IV 11 23 08 12.6 35.35N 140.70E 5 6.6,6.6s
IDC IV 11 23 08 14.0–.33 35.45N 140.76E 0 6.2,6.2
ISCJB IV 11 23 08 14.8–.41 35.37N–.01 140.79E–.01 13–2 6.3s,5.9b
JMA IV 11 23 08 15.8–.10 35.48N 140.87E 26–1 6.4,5.9b
NEIC IV 11 23 08 16.0–.00 35.21N 140.14E 15 6.4,5.9b
NEIC IV 11 23 08 16.9–.11 35.42N 140.58E 15 6.6,6.2W
GCMT IV 11 23 08 16.9–.10 35.42N 140.85E 16–0 6.2W,6.2W
MOS IV 11 23 08 18.4–1.1 35.87N 140.70E 23 6.3s,6.1b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ72.00000°,λ13.00000°. NP2:ϕ_s304.00000°,δ77.00000°,λ162.00000°. $M_0$2.99000×10^{18}
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=165.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.48 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$2.14 $M_{r\theta}$-1.61 $M_{\theta\phi}$-1.16 $M_{\phi r}$0.54 Best double couple: NP1:ϕ_s122.00000° ,δ81.00000°,λ-142.00000°. NP2:ϕ_s26.00000°,δ53.00000°,λ-10.00000°. Principal axes: T 2.7900,Plg18.0000°,Azm248.0000°; N 0.0900,Plg51.0000°,Azm133.0000° ; P -2.8700,Plg32.0000°,Azm350.0000° $M_0$2.80000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=142.0. Felt [IV] at Narita, Tokyo and Yokosuka. Felt widely in southeastern Honshu. Recorded [5L JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.02 $M_{\theta\theta}$-1.76 $M_{\phi\phi}$1.79 $M_{r\theta}$-1.08 $M_{\theta\phi}$-0.81 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s30.00000°,δ69.00000°,λ-14.00000°. NP2:ϕ_s125.00000°,δ77.00000°,λ-159.00000°. Principal axes: T 1.9800,Plg5.0000° ,Azm256.0000°; N 0.4400,Plg65.0000°,Azm155.0000°; P -2.4200,Plg24.0000° ,Azm349.0000° $M_0$2.20000×10^{18} Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s129.00000°,δ81.00000°,λ-155.00000°. NP2:

ϕ_s35.00000°,δ65.00000°,λ-10.00000°. Principal axes: T Plg11.0000°,Azm260.0000° ; N Plg0.0000°,Azm0.0000°; P Plg24.0000°,Azm355.0000°

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c244; s130,c456;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.27±.01 $M_{\theta\theta}$-1.88±.01; $M_{\phi\phi}$2.15±.01; $M_{r\theta}$-1.71±.06; $M_{\theta\phi}$-0.48±.01; $M_{\phi r}$0.16±.04; Best double couple: NP1:ϕ_s131.00000°,δ76.00000°,λ-149.00000°. NP2:ϕ_s33.00000° ,δ60.00000°,λ-16.00000°. Principal axes: T 2.2750,Plg11.0000°,Azm259.0000° ; N 0.7090,Plg56.0000°,Azm153.0000°; P -2.9860,Plg32.0000°,Azm356.0000° $M_0$2.63100×10^{18}

MOS Error ellipse: s-maj=5.4km s-min=3.3km az=109.7.

JMA IV 11 23 13 33.3–.20 35.49N 140.86E 18–2 3.5
¶600584311

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 11 23 15 46.2–.20 35.44N 140.90E 20–2 3.6
¶600584313

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 11 23 38 09.7–.10 39.16N 142.39E 33–1 3.5
¶600584332

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 11 23 44 01.1–.99 35.53N–.05 140.79E–.10 33 3.5b 12 0-59
IDC IV 11 23 43 58.0–1.1 35.68N 141.04E 0 3.7,3.6b **¶600584347**
ISCJB IV 11 23 43 59.4–.96 35.48N–.05 141.0E–.10 33 3.5b,3.6b
JMA IV 11 23 43 59.4–.10 35.47N 140.92E 21–2 3.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=22.5km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=7.0km az=177.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 11 23 46 39.9–.90 35.47N–.04 140.86E–.07 33 3.5b 17 0-60
IDC IV 11 23 46 36.3–1.2 35.33N 141.20E 0 3.9,3.7b **¶17200708**
ISCJB IV 11 23 46 38.3–.69 35.44N–.04 140.91E–.07 33 3.6b,3.7b
JMA IV 11 23 46 38.0–.10 35.45N 140.91E 23–1 3.9,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=27.2km az=39.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=0.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 11 23 59 08.6 36.93N 140.66E 7–1 3.5
¶600584365

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s355.00000°,δ68.00000°,λ-102.00000°. NP2:ϕ_s205.00000°,δ25.00000°,λ-62.00000°. Principal axes: T Plg22.0000°,Azm94.0000°; N Plg11.0000°,Azm359.0000°; P Plg65.0000° ,Azm244.0000°

ISC IV 12 00 04 48.1–.68 36.98N–.04 140.58E–.05 10 3.7b 18 0-147
ISCJB IV 12 00 04 47.4–.55 36.96N–.04 140.63E–.05 10 3.6b **¶17200709**
JMA IV 12 00 04 47.7 36.98N 140.61E 10–1 3.9
IDC IV 12 00 04 56.4–3.0 36.84N 140.14E 72–26 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=40.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s62.00000°,δ51.00000°,λ-117.00000°. NP2:ϕ_s281.00000°,δ47.00000°,λ-61.00000°. Principal axes: T Plg2.0000°,Azm171.0000°; N Plg21.0000°,Azm80.0000°; P Plg69.0000° ,Azm267.0000°
IDC Error ellipse: s-maj=30.0km s-min=19.4km az=85.0.

JMA IV 12 00 12 11.1–.10 35.47N 140.97E 21–2 3.5
¶600584379

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 00 14 26.6–.97 35.51N–.04 140.87E–.09 33 3.3b 12 0-65
IDC IV 12 00 14 22.9–1.2 35.26N 141.34E 0 3.7,3.4 **¶17200710**
ISCJB IV 12 00 14 25.0–.78 35.50N–.05 140.9E–.10 33 3.4b,3.4
JMA IV 12 00 14 25.2–.10 35.49N 140.91E 23–1 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=27.5km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=7.4km az=169.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 00 20 09.8–1.0 35.43N–.05 140.97E–.09 33 3.6b 16 0-76
IDC IV 12 00 20 02.9–1.8 35.42N 141.69E 0 3.7,3.6L **¶17200711**
ISCJB IV 12 00 20 08.5–1.1 35.41N–.05 141.1E–.10 33 3.5b,3.6L
JMA IV 12 00 20 09.6–.10 35.42N 140.99E 23–2 3.9,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=60.7km s-min=26.9km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=7.2km az=171.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 12 00 26 16.6–.10 36.94N 140.67E 3–2 2.5
¶600584387

ISC IV 12 00 46 43.6–.94 36.98N–.03 140.75E–.05 12–5 3.8b 34 0-147
ISCJB IV 12 00 46 42.6–.79 36.97N–.03 140.89E–.07 18–4 3.8b **¶602557241**
JMA IV 12 00 46 43.7 36.98N 140.76E 11–1 4.1
IDC IV 12 00 46 44.1–4.2 36.95N 140.63E 14–25 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.0km az=14.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s106.00000°,δ48.00000°,λ-71.00000°. NP2:ϕ_s259.00000°,δ45.00000°,λ-110.00000°. Principal axes: T Plg2.0000°,Azm183.0000°; N Plg14.0000°,Azm273.0000°; P Plg76.0000° ,Azm86.0000°
IDC Error ellipse: s-maj=22.3km s-min=17.3km az=95.0.

ISC IV 12 00 49 50.9–1.3 36.96N–.05 140.59E–.05 5–10 3.7b 21 0-69
IDC IV 12 00 49 50.0–.87 36.92N 140.63E 0 3.8,3.6 **¶17200712**
ISCJB IV 12 00 49 51.1–.54 37.00N–.03 140.68E–.06 18–4 3.6b,3.6
JMA IV 12 00 49 51.4 37.02N 140.61E 10–1 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=13.4km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.4km az=17.3.
JMA Event type fe.

JMA IV 12 00 53 49.0–.10 37.41N 141.36E 27–1 3.5
¶600584426

JMA Event type fe.

JMA IV 12 01 23 44.2 36.88N 140.67E 7 2.0
¶16505343

ISC IV 12 01 23 50.3–.47 35.45N–.03 140.97E–.06 10 4.2b 53 0-148
NIED IV 12 01 23 00 35.40N 141.00E 23 4.2W **¶600584479**
ISCJB IV 12 01 23 47.9–.38 35.41N–.03 141.12E–.06 10 4.2b
JMA IV 12 01 23 50.8–.10 35.47N 140.86E 24–1 4.2
NEIC IV 12 01 23 53.3–.35 35.31N 140.92E 35 4.5b
IDC IV 12 01 23 55.1–1.9 35.33N 140.91E 50–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ11.00000°,λ-83.00000°. NP2:ϕ_s77.00000°,δ79.00000°,λ-91.00000°. $M_0$2.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=170.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=7.6km az=61.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=17.7km s-min=11.0km az=86.0.

ISC IV 12 01 33 11.1–.43 37.31N–.04 141.44E–.05 50–3 4.5b 186 1-147
NIED IV 12 01 33 00 37.30N 141.50E 44 4.4W **¶602557255**
BJI IV 12 01 33 08.2 36.83N 141.18E 40 5.2b,4.7b
MOS IV 12 01 33 09.0–1.0 37.31N 141.49E 48 4.7b,4.7b
ISCJB IV 12 01 33 09.9–.50 37.30N–.03 141.41E–.05 53–3 4.7s,4.5b
JMA IV 12 01 33 10.5–.10 37.28N 141.42E 44–1 4.2,4.5b
NEIC IV 12 01 33 11.8–.75 37.29N 141.37E 56–6 4.6b,4.5b
IDC IV 12 01 33 11.2–.36 37.28N 141.32E 49–3 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ19.00000°,λ64.00000°. NP2:ϕ_s24.00000°,δ73.00000°,λ99.00000°. $M_0$4.71000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.6km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=28.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.3km az=127.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=11.4km s-min=8.1km az=108.0.

ISC IV 12 01 48 16.8–1.4 35.93N–.08 140.9E–.10 35 3.8b 11 0-60
ISCJB IV 12 01 48 14.7–1.4 35.96N–.07 141.1E–.20 35 3.7b **¶600584500**
JMA IV 12 01 48 16.9–.10 35.89N 140.81E 39–1 3.1
IDC IV 12 01 48 21.3–1.4 34.82N 138.09E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=9.4km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=57.9km s-min=18.4km az=88.0.

ISC IV 12 01 59 26.6–2.9 37.00N–.05 141.3E–.10 3–18 3.7b 19 0-155
ISCJB IV 12 01 59 28.8–1.6 37.12N–.08 141.28E–.09 18–11 3.6b **¶600584511**
IDC IV 12 01 59 33.2–7.5 37.24N 141.80E 33–59 4.2L,3.8
JMA IV 12 01 59 35.0 37.02N 140.70E 11–1 3.2,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=11.5km az=143.8.
IDC Error ellipse: s-maj=24.0km s-min=19.7km az=103.0.
JMA Event type fe.

JMA IV 12 02 03 52.7–.10 40.36N 142.19E 45–1 3.7
¶600584520

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.

ISC IV 12 02 18 34.4–2.1 35.44N–.07 141.1E–.10 25 3.7b 11 0-55
IDC IV 12 02 18 29.6–3.0 35.60N 141.87E 0 3.7,3.6b **¶17200718**
ISCJB IV 12 02 18 33.7–1.4 35.41N–.06 141.2E–.10 25 3.6b,3.6b
JMA IV 12 02 18 35.8–.10 35.41N 141.01E 24–2 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=90.4km s-min=29.6km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=16.4km s-min=6.8km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 12 02 21 03.4 36.94N 140.68E 6–1 2.7
¶600584547

ISC IV 12 02 23 44.2–1.2 35.41N–.04 140.77E–.05 9–7 3.7b 41 0-148
NIED IV 12 02 23 00 35.40N 141.00E 8 4.2W **¶16423563**
IDC IV 12 02 23 42.1–.64 35.26N 140.76E 0 3.9,3.8
ISCJB IV 12 02 23 43.5–.85 35.45N–.03 140.96E–.07 17–6 4.2s,3.8b
JMA IV 12 02 23 44.0–.10 35.48N 140.85E 25–1 4.2,3.8b
NEIC IV 12 02 23 47.8–.52 35.41N 140.76E 35 4.1b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ52.00000°,λ-174.00000°. NP2:ϕ_s47.00000°,δ86.00000°,λ-38.00000°. $M_0$2.05000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.5km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.6km az=8.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.8km s-min=10.1km az=14.0. Recorded [3 JMA] in Chiba.

JMA IV 12 02 28 50.4 36.89N 140.70E 6–1 2.8
¶600584558

ISC IV 12 02 50 51.8–1.0 36.97N–.03 140.59E–.05 9–9 3.6b 20 0-64
ISCJB IV 12 02 50 51.5–.67 36.93N–.03 140.74E–.06 15–6 3.5b **¶17200719**
IDC IV 12 02 50 51.2–1.1 36.73N 140.68E 0 3.7,3.4
JMA IV 12 02 50 52.1 36.95N 140.65E 9–1 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.8km az=17.1.
IDC Error ellipse: s-maj=26.3km s-min=15.8km az=174.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s198.00000°,δ51.00000°,λ-97.00000°. NP2:ϕ_s29.00000°,δ39.00000°,λ-82.00000°. Principal axes: T Plg6.0000°,Azm293.0000°; N Plg5.0000°,Azm202.0000°; P Plg82.0000° ,Azm73.0000°

JMA IV 12 02 51 26.8–.10 39.16N 142.61E 28–2 3.8
¶600584590

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 12 03 03 48.5 36.78N 140.60E 8–1 2.8
¶600584607

JMA IV 12 03 20 33.3–.10 35.51N 140.89E 23–1 3.8
NIED IV 12 03 20 00 35.50N 141.00E 32 4.1W **¶600584644**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ60.00000°,λ-2.00000°. NP2:ϕ_s6.00000°,δ88.00000°,λ-150.00000°. $M_0$1.53000×10^{15}

ISC IV 12 03 33 18.9–1.6 35.47N–.04 140.98E–.06 19–7 4.0b,3.3s 45 0-148
NIED IV 12 03 33 00 35.50N 141.10E 29 4.1W,3.3s **¶16505345**
ISCJB IV 12 03 33 18.3–.77 35.46N–.03 141.04E–.06 31–4 4.0b,3.4s
JMA IV 12 03 33 19.1–.10 35.53N 140.98E 27–1 3.8,3.4s
IDC IV 12 03 33 23.1–3.0 35.43N 140.81E 51–26 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ11.00000°,λ-130.00000°. NP2:ϕ_s237.00000°,δ81.00000°,λ-83.00000°. $M_0$1.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.5km az=6.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.6km s-min=12.4km az=85.0.

ISC IV 12 03 52 19.2–2.7 39.2N–.50 142.9E–.10 18 3.6b 10 10-88
IDC IV 12 03 52 26.4–9.0 39.54N 142.73E 66–61 3.7,3.6 **¶17200723**
ISC Event type ke.
IDC Error ellipse: s-maj=91.2km s-min=21.8km az=169.0.

ISC IV 12 03 55 14.7–.77 36.93N–.05 140.60E–.07 10 3.5b 15 0-147
ISCJB IV 12 03 55 13.9–.61 36.91N–.04 140.69E–.09 10 3.5b **¶600584700**
IDC IV 12 03 55 14.0–.98 36.98N 140.59E 0 3.7,3.5
JMA IV 12 03 55 14.4 36.91N 140.65E 5–1 3.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.7km az=25.6.
IDC Error ellipse: s-maj=25.8km s-min=21.7km az=27.0.

ISC IV 12 04 31 06.1–.72 35.43N–.05 140.84E–.08 33 3.6b 23 0-75
NIED IV 12 04 31 00 35.40N 140.90E 11 3.7W **¶17200725**
IDC IV 12 04 31 01.8–.85 35.35N 140.73E 0 3.7,3.6
ISCJB IV 12 04 31 04.7–.57 35.41N–.04 140.87E–.09 33 3.5b,3.6
JMA IV 12 04 31 04.5–.10 35.45N 140.91E 23–2 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ40.00000°,λ-23.00000°. NP2:ϕ_s50.00000°,δ76.00000°,λ-128.00000°. $M_0$4.06000×10^{14}
IDC Error ellipse: s-maj=24.0km s-min=18.7km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.7km az=179.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 04 32 55.6–1.7 36.86N–.06 140.72E–.06 3–10 3.7b 32 0-147
NIED IV 12 04 32 00 36.90N 140.60E 8 3.7W **¶17200726**
IDC IV 12 04 32 54.9–.72 36.78N 140.76E 0 3.9,3.8
ISCJB IV 12 04 32 56.0–.78 36.91N–.03 140.73E–.05 15–5 3.7b,3.8
JMA IV 12 04 32 56.6 36.94N 140.65E 11–1 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ41.00000°,λ-142.00000°. NP2:ϕ_s156.00000°,δ66.00000°,λ-55.00000°. $M_0$4.07000×10^{14}
IDC Error ellipse: s-maj=18.6km s-min=16.3km az=160.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.5km az=22.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s289.00000°,δ58.00000°,λ-116.00000°. NP2:ϕ_s151.00000°,δ40.00000°,λ-55.00000°. Principal axes: T Plg10.0000°,Azm37.0000°; N Plg22.0000°,Azm303.0000°; P Plg66.0000° ,Azm150.0000°

JMA IV 12 04 38 06.2–.10 35.47N 140.94E 21–2 2.9
¶600584737

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 04 42 45.2–1.0 37.69N–.06 141.79E–.07 24 3.3b 17 1-146
ISCJB IV 12 04 42 43.7–.95 37.69N–.06 141.90E–.07 24 3.3b **¶17200728**
JMA IV 12 04 42 43.3–.20 37.64N 141.87E 22–3 3.7
IDC IV 12 04 42 47.3–5.4 37.49N 142.11E 41–47 3.3,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=8.0km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=47.5km s-min=30.1km az=92.0.

ISC IV 12 04 59 39.4–.49 35.36N–.04 140.79E–.07 33 3.9b 45 0-148
NIED IV 12 04 59 00 35.50N 140.80E 20 4.2W **¶16505347**
ISCJB IV 12 04 59 37.7–.40 35.39N–.03 140.80E–.06 33 3.9b
JMA IV 12 04 59 37.1–.10 35.49N 140.81E 25–2 4.1
NEIC IV 12 04 59 39.9–.33 35.31N 140.76E 35 4.0b
IDC IV 12 04 59 40.2–3.2 35.31N 140.71E 35–26 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ33.00000°,λ104.00000°. NP2:ϕ_s12.00000°,δ58.00000°,λ81.00000°. $M_0$1.93000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=173.2.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=7.3km az=71.0. Recorded [2 JMA] in Chiba.
IDC Error ellipse: s-maj=17.7km s-min=13.3km az=83.0.

JMA IV 12 05 04 22.4 36.96N 140.74E 12–1 2.6 ¶600584766

JMA IV 12 05 20 54.5 36.88N 140.71E 6–1 3.0 ¶600584778

ISC IV 12 05 49 48.6–1.1 37.00N–.03 140.65E–.04 8–8 3.5b 24 0-69
ISCJB IV 12 05 49 48.0–.65 36.99N–.03 140.71E–.06 17–5 4.4s,3.5b **¶600584811**
IDC IV 12 05 49 47.1–.97 36.92N 140.70E 0 4.2,4.2s
JMA IV 12 05 49 48.4 37.00N 140.63E 6–1 3.8,4.2s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=10.4.
IDC Error ellipse: s-maj=22.5km s-min=20.5km az=97.0.
JMA Event type fe.

JMA IV 12 05 51 10.7 36.99N 140.68E 9–1 2.7 ¶600584819

JMA IV 12 06 16 46.7–.10 37.57N 141.71E 21–2 3.7 ¶600584878

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 06 41 03.1–4.1 36.95N–.07 141.54E–.10 17–26 3.3b 14 1-57
IDC IV 12 06 41 00.0–2.2 36.98N 141.70E 0 3.3,3.3b **¶17200744**
ISCJB IV 12 06 41 01.8–1.9 36.92N–.08 141.7E–.10 21–10 3.2b,3.3b
JMA IV 12 06 41 03.7–.20 36.92N 141.54E 33–2 3.4,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=27.4km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=12.4km az=41.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC IV 12 06 57 27.5–.83 35.50N–.04 140.85E–.08 33 3.5b 15 0-79
IDC IV 12 06 57 23.6–.87 35.32N 141.24E 0 3.7,3.6 **¶17200745**
JMA IV 12 06 57 25.9–.10 35.46N 140.88E 23–1 3.5,3.6
ISCJB IV 12 06 57 26.1–.68 35.44N–.06 141.0E–.10 33 3.5b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.

ISC IV 12 07 03 25.8–.93 35.41N–.07 140.78E–.09 33 3.3b 12 0-76
IDC IV 12 07 03 21.5–1.1 35.21N 141.16E 0 3.5,3.3 **¶17200746**
ISCJB IV 12 07 03 24.7–.79 35.40N–.06 141.04E–.10 33 3.2b,3.3
JMA IV 12 07 03 24.0–.10 35.46N 140.96E 22–2 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=25.8km az=22.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.8km az=150.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 07 30 46.6–2.2 38.92N–.06 142.36E–.09 23–14 3.3b 20 1-59
IDC IV 12 07 30 43.0–1.4 38.82N 142.32E 0 3.6,3.4 **¶17200755**
ISCJB IV 12 07 30 45.6–1.5 38.94N–.06 142.49E–.09 26–8 3.4b,3.4
JMA IV 12 07 30 47.9–.10 38.98N 142.37E 37–2 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=39.3km s-min=30.4km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.5km az=30.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC IV 12 07 39 07.4–1.4 38.41N 142.43E 0 3.7,3.4 ¶600584953

IDC Error ellipse: s-maj=35.6km s-min=31.7km az=80.0.

ISC IV 12 07 42 45.3–.99 36.75N–.04 141.50E–.05 43–8 4.4b,3.7s 197 1-149
NIED IV 12 07 42 00 36.70N 141.50E 29 4.2W,3.7s **¶600584963**
BJI IV 12 07 42 40.8 36.86N 141.22E 5 4.8b,4.8s
JMA IV 12 07 42 43.6–.10 36.74N 141.50E 38–3 4.4,4.8s
ISCJB IV 12 07 42 44.1–.61 36.72N–.04 141.47E–.04 45–5 4.4b,3.9s
IDC IV 12 07 42 45.4–2.0 36.68N 141.53E 47–20 4.1,4.1
MOS IV 12 07 42 45.5–1.0 37.00N 141.43E 47 4.4b,4.1
NEIC IV 12 07 42 47.8–.74 36.72N 141.40E 63–7 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ31.00000°,λ90.00000°. NP2: ϕ_s188.00000°,δ59.00000°,λ90.00000°. $M_0$2.22000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=141.7.
IDC Error ellipse: s-maj=15.5km s-min=13.5km az=92.0.
MOS Error ellipse: s-maj=9.1km s-min=7.1km az=78.4.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.8km az=190.0.

JMA IV 12 08 10 26.7–.10 38.43N 142.17E 36–2 3.8 ¶600585009

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 12 08 20 52.1 36.90N 140.68E 8 2.5 ¶600585033

JMA IV 12 08 27 48.8 36.98N 140.76E 9–1 2.5 ¶600585043

ISC IV 12 09 00 49.0–2.2 37.30N–.04 141.84E–.08 9–12 4.0b 54 1-117
NIED IV 12 09 00 00 37.30N 141.90E 8 3.9W **¶600585095**
IDC IV 12 09 00 47.6–.61 37.29N 141.82E 0 4.1,4.0
ISCJB IV 12 09 00 48.9–1.3 37.28N–.03 141.87E–.07 21–8 4.0b,3.2s
JMA IV 12 09 00 49.2–.20 37.29N 141.89E 27–3 4.4,3.2s
NEIC IV 12 09 00 53.2–.73 37.28N 141.82E 38–6 4.3b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ26.00000°,λ-82.00000°. NP2:ϕ_s35.00000°,δ65.00000°,λ-94.00000°. $M_0$8.68000×10^{14}
IDC Error ellipse: s-maj=16.3km s-min=14.5km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.8km az=12.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.9km az=119.0.

ISC IV 12 09 24 49.3–2.2 36.0N–.20 141.7E–.10 23 3.5b 9 1-56
JMA IV 12 09 24 48.4–.20 36.03N 141.88E 53 3.2 **¶17200765**
IDC IV 12 09 24 51.9–2.7 36.69N 141.23E 0 3.5,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=67.7km s-min=30.2km az=57.0.

JMA IV 12 10 33 21.7 36.89N 140.63E 6–1 2.7 ¶600585281

JMA IV 12 10 35 47.2 36.94N 140.77E 12–1 2.8 ¶600585293

ISC IV 12 10 47 41.5–3.7 35.91N–.05 141.11E–.08 5–24 3.5b 14 0-65
NIED IV 12 10 47 00 35.90N 141.10E 5 3.5W **¶17200768**
IDC IV 12 10 47 40.0–1.4 35.67N 141.17E 0 3.6,3.4
ISCJB IV 12 10 47 42.4–1.2 35.91N–.06 141.14E–.08 22–7 3.4b,3.4
JMA IV 12 10 47 43.2–.10 35.93N 141.09E 20–2 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ50.00000°,λ-142.00000°. NP2:ϕ_s66.00000°,δ62.00000°,λ-47.00000°. $M_0$1.81000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=29.9km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=9.4km az=155.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA IV 12 10 53 21.6 36.98N 140.63E 9–1 2.3 ¶600585321

JMA IV 12 11 02 49.4 36.95N 140.63E 6–1 2.7 ¶600585340

JMA IV 12 11 06 39.3 36.96N 140.68E 10–1 2.6 ¶600585351

JMA IV 12 11 36 36.3 36.99N 140.60E 7–1 2.8 ¶600585405

ISC IV 12 11 47 02.9–.84 36.13N–.05 140.10E–.06 53–7 3.6b 28 0-92
NIED IV 12 11 47 00 36.10N 140.10E 62 3.7W **¶17200771**
ISCJB IV 12 11 47 01.9–.54 36.12N–.04 140.12E–.06 60–4 3.5b
IDC IV 12 11 47 01.1–3.6 36.14N 139.91E 34–27 3.6,3.6
JMA IV 12 11 47 03.4–.10 36.13N 140.05E 49–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ29.00000°,λ145.00000°. NP2:ϕ_s47.00000°,δ74.00000°,λ66.00000°. $M_0$3.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.4km az=169.0.
IDC Error ellipse: s-maj=32.4km s-min=16.1km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s45.00000°,δ75.00000°,λ91.00000°. NP2: ϕ_s221.00000°,δ15.00000°,λ87.00000°. Principal axes: T Plg60.0000°,Azm316.0000° ; N Plg1.0000°,Azm224.0000°; P Plg30.0000°,Azm134.0000°

JMA IV 12 11 49 03.6–.10 36.96N 141.18E 27–1 3.0 ¶600585407

JMA IV 12 12 07 47.5–.10 35.85N 140.86E 30–1 2.9 ¶600585420

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA IV 12 12 13 11.0 36.98N 140.60E 8–1 3.0 ¶600585424

ISC IV 12 13 04 19.7–1.0 36.96N–.04 140.74E–.07 15–8 13 0-61
NIED IV 12 13 04 00 37.00N 140.70E 8 3.4W **¶600585473**
ISCJB IV 12 13 04 18.7–.94 36.96N–.04 140.82E–.09 23–6 3.9b
IDC IV 12 13 04 19.0–2.5 36.67N 140.71E 0 4.0,3.8
JMA IV 12 13 04 20.1 36.97N 140.69E 10–1 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ41.00000°,λ-46.00000°. NP2:ϕ_s291.00000°,δ62.00000°,λ-121.00000°. $M_0$1.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.7km az=6.9.
IDC Error ellipse: s-maj=42.5km s-min=17.1km az=14.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s151.00000°,δ58.00000°,λ-58.00000°. NP2:ϕ_s281.00000°,δ44.00000°,λ-130.00000°. Principal axes: T Plg8.0000°,Azm219.0000°; N Plg27.0000°,Azm313.0000°; P Plg62.0000° ,Azm114.0000°

JMA IV 12 14 04 23.4–.20 35.69N 140.96E 8–1 3.5
NIED IV 12 14 04 00 35.70N 141.00E 5 3.7W **¶600585535**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ30.00000°,λ-57.00000°. NP2:ϕ_s150.00000°,δ65.00000°,λ-108.00000°. $M_0$3.97000×10^{14}

ISC IV 12 14 55 18.1–1.2 35.46N–.04 140.98E–.06 14–7 4.0b,3.3s 43 0-148
NIED IV 12 14 55 00 35.50N 141.00E 20 4.2W,3.3s **¶16505349**
ISCJB IV 12 14 55 18.1–.67 35.51N–.03 140.98E–.06 23–4 3.9b,3.4s
JMA IV 12 14 55 18.9–.10 35.52N 140.88E 24–1 4.4,3.4s
IDC IV 12 14 55 22.6–1.9 35.51N 140.94E 45–18 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ50.00000°,λ-34.00000°. NP2:ϕ_s170.00000°,δ65.00000°,λ-134.00000°. $M_0$2.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.8km az=6.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=12.8km az=109.0.

JMA IV 12 15 07 11.6–.10 36.38N 140.96E 40–1 3.0 ¶600585607

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA IV 12 15 14 09.3–.10 35.69N 140.95E 9–1 3.5
NIED IV 12 15 14 00 35.70N 140.90E 5 3.6W **¶600585616**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ29.00000°,λ-87.00000°. NP2:ϕ_s170.00000°,δ62.00000°,λ-91.00000°. $M_0$3.11000×10^{14}

ISC IV 12 16 03 37.0–1.4 36.96N–.05 140.69E–.04 1–11 3.5b 23 0-61
NIED IV 12 16 03 00 37.00N 140.70E 8 3.4W **¶17200790**
IDC IV 12 16 03 36.7–1.1 36.88N 140.81E 0 3.7,3.4
JMA IV 12 16 03 37.8 37.02N 140.69E 9–1 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ47.00000°,λ-131.00000°. NP2:ϕ_s54.00000°,δ56.00000°,λ-55.00000°. $M_0$1.35000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=21.4km az=81.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s192.00000°,δ71.00000°,λ-143.00000°. NP2:ϕ_s88.00000°,δ55.00000°,λ-23.00000°. Principal axes: T Plg10.0000°,Azm317.0000°; N Plg49.0000°,Azm215.0000°; P Plg39.0000° ,Azm55.0000°

JMA IV 12 16 04 16.8–.10 39.10N 142.39E 33–1 3.5
NIED IV 12 16 04 00 39.10N 142.40E 35 3.6W **¶600585646**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ29.00000°,λ-46.00000°. NP2:ϕ_s265.00000°,δ70.00000°,λ-111.00000°. $M_0$3.34000×10^{14}

ISC IV 12 16 59 58.7–1.1 35.41N–.04 141.03E–.10 33 3.5b 17 0-65
IDC IV 12 16 59 57.3–3.3 35.15N 141.07E 11–19 3.4,3.4 **¶600585689**
ISCJB IV 12 16 59 59.1–.77 35.35N–.04 140.96E–.09 33 3.4b,3.1s
JMA IV 12 16 59 59.0–.10 35.45N 140.93E 24–2 4.0,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=18.2km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.9km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 12 17 03 28.7–.30 38.19N 142.45E 30–4 3.5 ¶600585693

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA IV 12 17 57 15.1–.10 38.26N 141.87E 47–1 3.6
NIED IV 12 17 57 00 38.30N 141.90E 62 3.6W **¶600585766**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ60.00000°,λ-178.00000°. NP2:ϕ_s191.00000°,δ88.00000°,λ-30.00000°. $M_0$3.07000×10^{14}

JMA IV 12 18 04 10.6–.10 36.29N 140.94E 46–1 3.5
NIED IV 12 18 04 00 36.30N 140.90E 56 3.6W **¶600585770**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ8.00000°,λ112.00000°. NP2:ϕ_s46.00000°,δ82.00000°,λ87.00000°. $M_0$3.30000×10^{14}

ISC IV 12 18 21 37.5–2.6 39.00N–.05 142.57E–.09 16–14 3.7b 25 1-63
IDC IV 12 18 21 31.7–2.3 38.97N 143.51E 0 3.6,3.5 **¶17200795**
ISCJB IV 12 18 21 40.3–1.6 39.03N–.04 142.4E–.10 23–7 3.5b,2.7s
JMA IV 12 18 21 40.7–.10 39.05N 142.42E 31–2 3.2,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=66.3km s-min=25.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.0km az=8.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 12 18 47 52.7–1.3 36.99N–.04 140.63E–.04 2–10 3.6b 28 0-69
NIED IV 12 18 47 00 37.10N 140.70E 8 3.6W **¶16423568**
IDC IV 12 18 47 52.3–1.0 36.84N 140.86E 0 3.8,3.7
ISCJB IV 12 18 47 53.2–.54 37.03N–.03 140.75E–.05 15–4 3.6b,3.7
JMA IV 12 18 47 53.7 37.07N 140.67E 13–1 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ76.00000°,λ-9.00000°. NP2:ϕ_s277.00000°,δ81.00000°,λ-166.00000°. $M_0$2.86000×10^{14}
IDC Error ellipse: s-maj=24.8km s-min=16.9km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.5km az=15.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s284.00000°,δ80.00000°,λ-152.00000°. NP2:ϕ_s189.00000°,δ62.00000°,λ-11.00000°. Principal axes: T Plg12.0000°,Azm54.0000°; N Plg60.0000°,Azm302.0000°; P Plg27.0000° ,Azm150.0000°

JMA IV 12 18 58 01.5 36.96N 140.69E 9–1 2.7 ¶600585811

ISC IV 12 19 02 15.9–.80 36.96N–.03 140.61E–.03 17–5 4.6b,3.2s 231 0-149
NIED IV 12 19 02 00 36.90N 140.70E 5 4.1W,3.2s **¶16423569**
IDC IV 12 19 02 13.8–.50 37.00N 140.48E 0 4.5,4.4
ISCJB IV 12 19 02 15.3–.39 36.95N–.02 140.63E–.03 21–2 4.5b,3.3s
JMA IV 12 19 02 15.5 36.95N 140.63E 7–1 4.5,3.3s
MOS IV 12 19 02 17.4–1.2 37.07N 140.61E 33 4.7b,3.3s
BJI IV 12 19 02 17.0 36.70N 140.63E 41 4.7b,4.5b
NEIC IV 12 19 02 20.1–.61 36.98N 140.46E 43–5 4.6b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ34.00000°,λ-103.00000°. NP2:ϕ_s49.00000°,δ57.00000°,λ-81.00000°. $M_0$1.84000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.6km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=30.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s52.00000°,δ61.00000°,λ-83.00000°. NP2:ϕ_s218.00000°,δ30.00000°,λ-102.00000°. Principal axes: T Plg16.0000°,Azm137.0000°; N Plg6.0000°,Azm229.0000°; P Plg73.0000° ,Azm339.0000°
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=127.0. Recorded [3 JMA] in Fukushima.

JMA IV 12 19 04 50.5 36.88N 140.81E 7–1 4.0
NIED IV 12 19 04 00 36.90N 140.80E 5 3.6W **¶600585814**
JMA Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ62.00000°,λ-2.00000°. NP2:ϕ_s124.00000°,δ88.00000°,λ-152.00000°. $M_0$3.26000×10^{14}
ISC IV 12 19 55 40.7–.74 36.01N–.07 141.49E–.08 26 3.7b 25 1-80
ISCJB IV 12 19 55 38.4–.62 36.03N–.05 141.64E–.07 26 3.7b **¶17200801**
JMA IV 12 19 55 41.1–.20 36.04N 141.54E 43–4 3.6
IDC IV 12 19 55 43.9–2.6 35.97N 141.31E 53–23 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.0km az=37.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=13.3km az=84.0.
JMA IV 12 20 13 10.9 36.90N 140.72E 9–1 2.7
¶17200802
ISC IV 12 20 13 25.5–.94 35.65N–.04 140.13E–.06 74–7 3.4b 30 0-77
IDC IV 12 20 13 13.6–1.2 36.02N 141.11E 0 3.7,3.7L **¶600585863**
ISCJB IV 12 20 13 24.7–.57 35.64N–.03 140.13E–.06 78–4 3.3b,3.7L
JMA IV 12 20 13 26.0–.20 35.70N 140.13E 67–2 3.2,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=20.4km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.4km az=164.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 12 20 44 45.6–2.1 36.26N 140.92E 0 3.6,3.6
¶17200805
IDC Error ellipse: s-maj=52.1km s-min=24.4km az=49.0.
ISC IV 12 20 47 35.9–.00 36.99N–.04 140.60E–.04 13–7 3.6b 33 0-147
NIED IV 12 20 47 00 37.00N 140.60E 5 3.7W **¶17200806**
IDC IV 12 20 47 34.3–.72 37.04N 140.60E 0 3.9,3.7
ISCJB IV 12 20 47 35.6–.50 36.97N–.03 140.71E–.05 21–3 3.6b,3.7
JMA IV 12 20 47 36.2 36.98N 140.60E 8–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ41.00000°,λ-95.00000°. NP2:ϕ_s272.00000°,δ49.00000°,λ-85.00000°. $M_0$4.00000×10^{14}
IDC Error ellipse: s-maj=19.1km s-min=16.2km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=15.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s272.00000°,δ55.00000°,λ-83.00000°. NP2:ϕ_s79.00000°,δ35.00000°,λ-101.00000°. Principal axes: T Plg10.0000°,Azm357.0000°; N Plg6.0000°,Azm88.0000°; P Plg78.0000° ,Azm208.0000°
ISC IV 12 20 53 35.4–1.0 39.18N–.06 142.5E–.10 20–6 3.6b 28 1-68
NIED IV 12 20 53 00 39.20N 142.40E 80 4.1W **¶17200808**
IDC IV 12 20 53 32.1–.88 39.20N 142.55E 0 3.7,3.6
ISCJB IV 12 20 53 34.9–1.2 39.17N–.05 142.52E–.07 30–6 3.5b,3.6
JMA IV 12 20 53 36.8–.10 39.20N 142.40E 27–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ23.00000°,λ-151.00000°. NP2:ϕ_s187.00000°,δ79.00000°,λ-69.00000°. $M_0$1.36000×10^{15}
IDC Error ellipse: s-maj=23.3km s-min=19.1km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=8.1km az=17.9.
JMA Event type fe.
ISC IV 12 21 07 46.3–1.1 36.56N–.04 140.95E–.07 47–8 3.7b 29 0-147
NIED IV 12 21 07 00 36.60N 140.90E 53 3.9W **¶17200810**
IDC IV 12 21 07 37.5–1.3 36.79N 141.54E 0 4.0,4.0s
ISCJB IV 12 21 07 45.5–.71 36.55N–.04 140.94E–.07 56–5 4.0s,3.6b
JMA IV 12 21 07 46.5–.10 36.55N 140.90E 49–1 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ7.00000°,λ100.00000°. NP2:ϕ_s48.00000°,δ83.00000°,λ89.00000°. $M_0$7.96000×10^{14}
IDC Error ellipse: s-maj=36.3km s-min=19.9km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.3km az=13.3.
JMA Event type fe.
JMA IV 12 21 33 38.5–.20 38.79N 142.45E 29–3 2.8
¶603308252
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 12 21 47 59.4–.99 38.8N–.10 142.4E–.10 27 3.8b 15 4-63
ISCJB IV 12 21 47 57.5–.79 38.9N–.10 142.5E–.20 27 3.8b **¶17200815**
IDC IV 12 21 48 07.5–3.0 39.09N 142.37E 97–28 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=14.8km az=20.2.
IDC Error ellipse: s-maj=22.5km s-min=14.3km az=105.0.
JMA IV 12 21 48 32.1–.10 36.46N 141.19E 44–2 3.6
NIED IV 12 21 48 00 36.50N 141.20E 59 3.7W **¶600585956**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ41.00000°,λ30.00000°. NP2:ϕ_s123.00000°,δ71.00000°,λ126.00000°. $M_0$4.24000×10^{14}
JMA IV 12 21 51 54.0 36.95N 140.69E 12–1 2.9
¶16427691
ISC IV 12 21 52 09.0–.46 36.36N–.03 141.86E–.04 26–2 4.9b,4.4s 492 1-154
NIED IV 12 21 52 00 36.40N 141.80E 26 4.7W,4.4s **¶600585958**
IDC IV 12 21 52 04.7–.47 36.34N 141.87E 0 4.9L,4.7
ISCJB IV 12 21 52 07.9–.83 36.36N–.02 141.79E–.02 27–5 4.9b,4.3s
NEIC IV 12 21 52 08.8–2.0 36.34N 141.76E 23–14 4.9b,4.3s
JMA IV 12 21 52 08.9–.10 36.41N 141.82E 53–4 4.6,4.3s
BJI IV 12 21 52 08.3 36.37N 141.65E 31 4.9b,4.9b
MOS IV 12 21 52 11.3–.81 36.76N 141.70E 43 5.1b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ16.00000°,λ-132.00000°. NP2:ϕ_s213.00000°,δ79.00000°,λ-79.00000°. $M_0$1.29000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.2km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.7km az=143.1.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.7km az=102.4.
ISC IV 12 22 09 08.5–.97 36.86N–.03 140.59E–.04 12–8 3.5b 20 0-57
IDC IV 12 22 09 06.8–1.6 36.82N 140.62E 0 3.7,3.5 **¶17200816**
ISCJB IV 12 22 09 08.1–.62 36.85N–.03 140.63E–.06 20–6 3.4b,3.5
JMA IV 12 22 09 08.5 36.87N 140.58E 6–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.0km az=2.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.5km az=17.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s177.00000°,δ75.00000°,λ-80.00000°. NP2:ϕ_s323.00000°,δ18.00000°,λ-123.00000°. Principal axes: T Plg29.0000°,Azm259.0000°; N Plg10.0000°,Azm354.0000°; P Plg59.0000° ,Azm101.0000°
ISC IV 12 22 35 49.2–1.2 36.90N–.03 140.62E–.04 4–7 4.1b 63 0-147
NIED IV 12 22 35 00 36.90N 140.60E 8 3.9W **¶16587479**
IDC IV 12 22 35 48.5–.53 36.90N 140.66E 0 4.4L,4.1
ISCJB IV 12 22 35 49.6–.51 36.92N–.02 140.75E–.04 20–3 4.0s,4.0b
JMA IV 12 22 35 50.4 36.95N 140.64E 10–1 3.8,4.0b
NEIC IV 12 22 35 53.5–.42 36.85N 140.59E 35 4.3b,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ41.00000°,λ-77.00000°. NP2:ϕ_s282.00000°,δ50.00000°,λ-101.00000°. $M_0$8.48000×10^{14}
IDC Error ellipse: s-maj=15.1km s-min=12.7km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.7km az=21.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s274.00000°,δ55.00000°,λ-115.00000°. NP2:ϕ_s134.00000°,δ42.00000°,λ-58.00000°. Principal axes: T Plg7.0000°,Azm22.0000°; N Plg21.0000°,Azm289.0000°; P Plg68.0000° ,Azm130.0000°
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.4km az=116.0.
ISC IV 12 23 06 22.5–1.2 35.67N–.08 140.19E–.10 69–9 3.9b 15 0-81
IDC IV 12 23 06 10.7–2.2 35.97N 141.08E 0 4.4,4.4s **¶17200821**
ISCJB IV 12 23 06 21.5–.82 35.66N–.07 140.1E–.10 76–6 3.7b,4.4s
JMA IV 12 23 06 22.0–.10 35.73N 140.19E 64–1 2.7,4.4s
ISC Event type ke.
IDC Error ellipse: s-maj=57.4km s-min=25.5km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=7.9km az=146.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 12 23 12 25.8 36.97N 140.64E 10–1 2.7
¶600586034
ISC IV 12 23 36 21.2–.36 35.45N–.02 140.82E–.03 19–1 5.2b,5.0s 916 0-159
NIED IV 12 23 36 00 35.40N 141.00E 17 5.1W,5.0s **¶16423576**
BJI IV 12 23 36 17.3 35.19N 141.14E 30 5.3s,5.2
ISCJB IV 12 23 36 20.7–.44 35.42N–.02 140.75E–.02 21–3 5.1b,5.0s
JMA IV 12 23 36 20.2–.10 35.49N 140.88E 27–1 5.3,5.0s
GCMT IV 12 23 36 21.5–.20 35.38N 140.82E 23–0 5.2W,5.0s
NEIC IV 12 23 36 21.5–2.2 35.38N 140.68E 19–13 5.3b,5.0s
MOS IV 12 23 36 22.2–1.0 35.63N 140.75E 26 5.3b,4.9s
IDC IV 12 23 36 22.1–1.3 35.40N 140.82E 26–8 4.8,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ34.00000°,λ-178.00000°. NP2:ϕ_s53.00000°,δ89.00000°,λ-56.00000°. $M_0$5.04000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.6km az=145.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s28.00000°,δ62.00000°,λ-94.00000°. NP2: ϕ_s217.00000°,δ28.00000°,λ-82.00000°. Principal axes: T Plg17.0000°,Azm121.0000° ; N Plg4.0000°,Azm30.0000°; P Plg73.0000°,Azm288.0000°
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c72; s84,c152; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.98±.21 $M_{\theta\theta}$-0.91±.13; $M_{\phi\phi}$5.89±.15; $M_{r\theta}$-2.58±.22; $M_{\theta\phi}$1.38±.08; $M_{\phi r}$-2.36±.19; Best double couple: NP1:ϕ_s31.00000°,δ62.00000° ,λ-68.00000°. NP2:ϕ_s170.00000°,δ36.00000°,λ-125.00000°. Principal axes: T 6.8580,Plg14.0000°,Azm105.0000°; N -0.4300,Plg20.0000°,Azm200.0000° ; P -6.4320,Plg66.0000°,Azm342.0000° $M_0$6.64500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=126.0. Recorded [3 JMA] in Chiba and Ibaraki.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=106.5.
IDC Error ellipse: s-maj=10.1km s-min=7.4km az=78.0.
ISC IV 12 23 45 50.1–1.5 35.46N–.06 141.2E–.10 10 3.6b 11 0-55
JMA IV 12 23 45 52.5–.20 35.51N 140.97E 25–2 3.0 **¶17200827**
IDC IV 12 23 46 03.0–5.2 34.84N 139.44E 74–27 3.4,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=258.1km s-min=17.4km az=68.0.
ISC IV 12 23 54 15.2–.48 38.25N–.04 141.86E–.05 62–3 4.3b 150 0-146
NIED IV 12 23 54 00 38.30N 141.90E 68 4.3W **¶16423577**
BJI IV 12 23 54 02.9 37.52N 142.17E 10 5.2b,4.7s
MOS IV 12 23 54 13.2–1.0 38.29N 141.99E 62 4.5b,4.7s
ISCJB IV 12 23 54 13.8–.53 38.25N–.03 141.93E–.05 66–3 4.2b,4.7s
IDC IV 12 23 54 15.2–.45 38.22N 141.75E 61–3 4.3,4.1
NEIC IV 12 23 54 15.9–.96 38.26N 141.80E 70–8 4.7b,4.1
JMA IV 12 23 54 15.1–.10 38.27N 141.87E 61–1 4.5,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ45.00000°,λ64.00000°. NP2:ϕ_s211.00000°,δ51.00000°,λ113.00000°. $M_0$3.16000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=5.9km az=93.6.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.2km az=31.5.
IDC Error ellipse: s-maj=10.4km s-min=9.0km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=8.7km s-min=6.9km az=117.0. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 00 11 20.2–1.0 35.73N–.09 141.43E–.08 25 3.4b 13 0-65
IDC IV 13 00 11 16.3–1.2 35.61N 141.70E 0 3.6s,3.6 **¶17200833**
ISCJB IV 13 00 11 18.7–.84 35.72N–.07 141.50E–.07 25 3.6s,3.4b
JMA IV 13 00 11 18.8–.10 35.77N 141.44E 12–2 3.2,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=25.9km az=17.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=8.2km az=18.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 13 00 52 56.1–.20 38.29N 142.29E 34–3 3.5
¶600586095
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 01 03 50.0–2.2 39.20N–.04 142.49E–.08 0–13 3.6b 24 1-63
JMA IV 13 01 03 53.2–.10 39.20N 142.40E 33–1 3.7 **¶17200837**
IDC IV 13 01 03 58.8–3.5 39.08N 142.45E 74–33 3.4,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.2km s-min=21.0km az=84.0.
JMA IV 13 01 07 44.4–.10 38.49N 142.20E 28–3 2.7
¶602557300
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 01 07 59.9–.43 36.95N–.02 140.63E–.02 20–1 5.4b,5.0s 1118 0-161
NIED IV 13 01 07 00 36.90N 140.70E 5 5.4W,5.0s **¶602557276**
BJI IV 13 01 07 55.9 36.76N 140.85E 24 5.4s,5.3b
ISCJB IV 13 01 07 57.0–.50 36.94N–.02 140.42E–.02 7–3 5.3b,5.0s
IDC IV 13 01 07 57.4–.31 36.99N 140.50E 0 5.1,5.1
JMA IV 13 01 07 58.0 36.92N 140.71E 5–1 5.7,5.1
MOS IV 13 01 08 01.9–.81 37.31N 140.40E 30 5.5b,4.9s
GCMT IV 13 01 08 02.2–.10 36.93N 140.63E 12 5.3W,4.9s
NEIC IV 13 01 08 02.2–1.1 36.95N 140.42E 32–7 5.4b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ33.00000°,λ-92.00000°. NP2:ϕ_s180.00000°,δ57.00000°,λ-89.00000°. $M_0$1.36000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=153.6.
IDC Error ellipse: s-maj=11.0km s-min=8.8km az=86.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s331.00000° ,δ51.00000°,λ-114.00000°. NP2:ϕ_s187.00000°,δ45.00000°,λ-63.00000°. Principal axes: T Plg3.0000°,Azm78.0000°; N Plg19.0000°,Azm347.0000°; P Plg71.0000°,Azm177.0000°
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=103.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c119; s131,c259; Duration: 1s^1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$1.26±.01; $M_{r\theta}$0.12±.04; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$0.18±.04; Best double couple: NP1:ϕ_s180.00000°,δ49.00000° ,λ-82.00000°. NP2:ϕ_s348.00000°,δ42.00000°,λ-99.00000°. Principal axes: T 1.2830,Plg4.0000°,Azm265.0000°; N 0.0430,Plg6.0000°,Azm355.0000° ; P -1.3250,Plg83.0000°,Azm143.0000° $M_0$1.30400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.3km az=129.0. Recorded [5L JMA] in Ibaraki.
ISC IV 13 01 21 48.8–1.1 36.90N–.03 140.62E–.06 5–9 3.4b 24 0-64
ISCJB IV 13 01 21 48.0–.74 36.86N–.03 140.79E–.06 14–4 3.4b **¶17200838**
IDC IV 13 01 21 47.8–.98 36.77N 140.69E 0 3.6,3.4
JMA IV 13 01 21 48.7 36.88N 140.69E 5–1 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.6km az=15.9.
IDC Error ellipse: s-maj=21.3km s-min=16.2km az=179.0.
JMA Event type fe.
ISC IV 13 01 46 06.1–.74 35.69N–.08 141.42E–.07 25 3.8b 20 0-91
NIED IV 13 01 46 00 35.80N 141.40E 23 3.8W **¶17200839**
IDC IV 13 01 46 02.0–.83 35.63N 141.49E 0 3.9,3.7
ISCJB IV 13 01 46 04.6–.60 35.75N–.07 141.51E–.06 25 3.7b,3.7
JMA IV 13 01 46 05.1–.40 35.79N 141.42E 12–4 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ40.00000°,λ-82.00000°. NP2:ϕ_s2.00000°,δ51.00000°,λ-97.00000°. $M_0$6.04000×10^{14}
IDC Error ellipse: s-maj=24.5km s-min=20.8km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.1km az=167.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 13 02 46 05.0–1.4 40.08N–.05 141.94E–.09 13–7 3.9b 17 0-90
NIED IV 13 02 46 00 40.10N 141.90E 5 3.8W **¶17200843**
ISCJB IV 13 02 46 04.0–1.5 40.07N–.04 142.0E–.10 17–8 3.8b,3.3s
JMA IV 13 02 46 05.4 40.08N 141.93E 8–1 4.0,3.3s
IDC IV 13 02 46 18.6–2.7 39.83N 141.17E 112–25 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ33.00000°,λ-127.00000°. NP2:ϕ_s296.00000°,δ64.00000°,λ-68.00000°. $M_0$6.47000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.1km s-min=6.9km az=169.7.
JMA Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=15.6km az=86.0.
ISC IV 13 02 53 27.7–4.0 36.15N–.05 141.82E–.08 1–25 3.5b 21 1-64
JMA IV 13 02 53 28.0–.20 36.16N 141.98E 64 3.2 **¶17200844**
IDC IV 13 02 53 36.6–4.5 36.01N 141.35E 64–39 3.4,3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=36.1km s-min=25.2km az=71.0.

ISC IV 13 03 02 18.5–2.4 39.02N–.05 142.42E–.10 13–12 3.7b 20 1-59
IDC IV 13 03 02 14.0–2.6 39.20N 143.13E 0 3.6,3.5 **¶17200845**
ISCJB IV 13 03 02 18.9–1.5 39.05N–.05 142.47E–.09 23–7 3.4b,3.5
JMA IV 13 03 02 20.9–.10 39.08N 142.37E 34–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.2km s-min=26.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.8km az=9.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 03 16 44.0–2.1 36.96N–.07 141.2E–.10 10 3.5b 12 0-61
IDC IV 13 03 16 34.1–2.5 36.81N 142.43E 0 3.6,3.5b **¶602597321**
JMA IV 13 03 16 51.7 37.02N 140.60E 10–1 2.7,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=70.3km s-min=25.8km az=59.0.
ISC IV 13 03 16 59.6–.55 36.15N–.04 141.00E–.07 31 4.2b,3.1s 78 0-118
NIED IV 13 03 16 00 36.10N 141.10E 11 4.2W,3.1s **¶17200846**
ISCJB IV 13 03 16 57.7–.38 36.13N–.03 141.15E–.05 31 4.2b,3.1s
JMA IV 13 03 16 57.8–.10 36.07N 141.14E 43–1 4.2,3.1s
NEIC IV 13 03 17 00.4–1.3 35.93N 141.07E 42–12 4.5b,3.1s
BJI IV 13 03 17 02.7 36.01N 140.39E 42 5.0b,4.7s
MOS IV 13 03 17 03.8–.85 36.40N 140.81E 65 4.5b,4.7s
IDC IV 13 03 17 03.3–1.7 36.05N 140.92E 62–15 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ11.00000°,λ-92.00000°. NP2:ϕ_s23.00000°,δ79.00000°,λ-90.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.0km az=6.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.0km az=48.0.
MOS Error ellipse: s-maj=11.0km s-min=6.5km az=130.8.
IDC Error ellipse: s-maj=14.9km s-min=8.7km az=67.0.
ISC IV 13 03 21 07.7–.97 35.69N–.07 140.76E–.08 11–8 3.7b 12 0-91
JMA IV 13 03 21 07.7–.10 35.70N 140.96E 12 3.4 **¶17200848**
IDC IV 13 03 21 13.3–1.2 34.66N 139.22E 0 3.8,3.6
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=47.3km s-min=21.0km az=70.0.
JMA IV 13 04 03 11.7–.10 37.34N 141.36E 46–1 3.5
¶600586177
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 13 04 23 09.3 36.93N 140.65E 6–1 2.5
¶600586189
ISC IV 13 04 24 47.7–2.4 38.45N–.05 142.19E–.10 12–14 3.8b 15 1-62
ISCJB IV 13 04 24 48.7–1.6 38.44N–.06 142.22E–.10 27–8 3.7b **¶17200854**
IDC IV 13 04 24 48.2–2.5 38.01N 143.13E 0 3.6,3.6b
JMA IV 13 04 24 50.7–.20 38.49N 142.14E 31–2 3.6,3.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=9.3km az=15.7.
IDC Error ellipse: s-maj=66.6km s-min=31.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 13 04 48 54.1 36.95N 140.66E 7–1 2.5
¶600586197
JMA IV 13 05 04 22.0–.10 38.73N 142.36E 38–2 3.6
¶600586205
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 05 12 58.6–1.1 36.92N–.05 140.68E–.08 10 3.5b 12 0-91
ISCJB IV 13 05 12 56.9–1.0 36.86N–.05 140.88E–.09 10 3.6b **¶600586208**
JMA IV 13 05 12 58.5 36.92N 140.69E 6–1 3.3
IDC IV 13 05 13 00.4–1.7 36.40N 140.59E 0 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.6km az=22.0.
IDC Error ellipse: s-maj=41.9km s-min=26.8km az=14.0.
ISC IV 13 05 22 22.1–.72 35.61N–.04 140.21E–.05 64–6 3.9b 46 0-118
JMA IV 13 05 22 20.7–.20 35.65N 140.20E 70–2 3.2 **¶600586213**
ISCJB IV 13 05 22 21.0–.39 35.61N–.03 140.22E–.05 69–3 3.8b
IDC IV 13 05 22 23.7–1.4 35.55N 140.16E 80–12 3.9,3.7
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ85.00000°,λ72.00000°. NP2: ϕ_s280.00000°,δ18.00000°,λ165.00000°. Principal axes: T Plg47.0000°,Azm276.0000° ; N Plg17.0000°,Azm26.0000°; P Plg38.0000°,Azm130.0000°
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.1km az=156.2.
IDC Error ellipse: s-maj=18.5km s-min=7.1km az=67.0.
ISC IV 13 05 27 46.1–1.1 35.52N–.06 140.12E–.07 69–8 3.5b 19 0-55
IDC IV 13 05 27 43.1–1.4 34.75N 138.39E 0 3.6,3.5 **¶17200860**
ISCJB IV 13 05 27 45.1–.76 35.49N–.06 140.14E–.08 76–5 3.4b,3.5
JMA IV 13 05 27 45.0–.20 35.63N 140.14E 68–2 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.7km s-min=22.1km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=8.6km az=138.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 05 49 02.0–1.2 35.7N–.10 140.72E–.04 17–8 3.3b 14 0-91
NIED IV 13 05 48 00 35.50N 140.90E 5 4.0W **¶17200865**
JMA IV 13 05 48 58.7–.10 35.48N 140.86E 25–1 3.9
IDC IV 13 05 49 02.1–3.9 36.22N 140.83E 0 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ17.00000°,λ-42.00000°. NP2:ϕ_s306.00000°,δ79.00000°,λ-103.00000°. $M_0$1.05000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=112.5km s-min=23.3km az=175.0.
ISC IV 13 06 08 12.0–.91 36.84N–.08 141.98E–.07 19 3.6b 17 1-90
NIED IV 13 06 08 00 36.90N 142.10E 26 3.6W **¶17200866**
ISCJB IV 13 06 08 09.8–.71 36.75N–.07 142.10E–.08 19 3.5b
IDC IV 13 06 08 09.0–.85 36.76N 142.03E 0 3.7,3.5
JMA IV 13 06 08 11.6–.40 36.86N 142.15E 64 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ43.00000°,λ-61.00000°. NP2:ϕ_s175.00000°,δ53.00000°,λ-115.00000°. $M_0$2.98000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.8km az=44.3.
IDC Error ellipse: s-maj=22.3km s-min=21.0km az=94.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 13 06 09 34.9–1.1 36.73N–.03 140.49E–.04 4–8 3.6b 30 0-91
ISCJB IV 13 06 09 34.5–.71 36.68N–.03 140.70E–.05 11–3 3.6s,3.5b **¶17200867**
IDC IV 13 06 09 34.9–.74 36.77N 140.52E 0 3.8,3.6
JMA IV 13 06 09 35.4 36.70N 140.64E 7–1 3.4,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.6km az=31.7.
IDC Error ellipse: s-maj=20.1km s-min=16.7km az=1.0.
JMA Event type fe.
ISC IV 13 06 35 54.3–.92 36.96N–.03 140.68E–.04 12–7 3.5b 27 0-91
IDC IV 13 06 35 52.6–1.1 36.96N 140.72E 0 4.1L,3.8 **¶600586259**
ISCJB IV 13 06 35 53.8–.59 36.94N–.03 140.78E–.05 18–4 3.5b,3.8
JMA IV 13 06 35 54.4 36.96N 140.69E 11–1 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=26.6km s-min=20.4km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.4km az=20.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s359.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s183.00000°,δ44.00000°,λ-88.00000°. Principal axes: T Plg1.0000°,Azm91.0000°; N Plg2.0000°,Azm1.0000°; P Plg88.0000° ,Azm220.0000°
ISC IV 13 06 37 23.7–1.1 37.00N–.03 140.76E–.08 10–7 3.4b 22 0-57
IDC IV 13 06 37 21.7–1.9 37.03N 140.97E 0 3.6,3.5L **¶600586261**
ISCJB IV 13 06 37 22.7–.90 36.97N–.03 140.91E–.07 12–4 3.4b,3.5L
JMA IV 13 06 37 24.0 36.99N 140.77E 7–1 3.5,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=40.7km s-min=28.2km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.6km az=15.2.
JMA Event type fe.
ISC IV 13 06 56 54.3–2.1 37.32N–.07 141.89E–.07 7–12 3.4b 23 1-146
IDC IV 13 06 56 53.4–.90 37.27N 141.89E 0 3.5,3.4 **¶17200871**
ISCJB IV 13 06 56 54.4–1.6 37.29N–.06 141.95E–.08 19–10 3.3b,3.4
JMA IV 13 06 56 57.5–.20 37.29N 141.78E 34–3 3.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=20.9km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.5km az=41.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 13 07 32 33.9–1.1 39.13N–.05 142.29E–.06 43–9 4.2b,3.3s 86 0-145
NIED IV 13 07 32 00 39.10N 142.40E 32 4.1W,3.3s **¶16427697**
JMA IV 13 07 32 31.6–.10 39.13N 142.40E 32–1 4.1,3.3s
NEIC IV 13 07 32 33.0–.61 39.06N 142.50E 35 4.5b,3.3s
ISCJB IV 13 07 32 33.0–.66 39.14N–.04 142.29E–.06 49–4 4.3b,3.5s
MOS IV 13 07 32 34.8–1.2 39.14N 142.27E 68 4.3b,3.5s
BJI IV 13 07 32 35.8 39.35N 141.17E 14 4.8b,4.6b
IDC IV 13 07 32 36.0–2.0 39.05N 142.35E 65–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ32.00000°,λ-136.00000°. NP2:ϕ_s172.00000°,δ69.00000°,λ-66.00000°. $M_0$1.88000×10^{15}
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.0km az=30.6.
MOS Error ellipse: s-maj=9.5km s-min=7.0km az=89.6.
IDC Error ellipse: s-maj=15.2km s-min=11.0km az=124.0.
IDC IV 13 07 47 54.7–6.5 38.95N 141.72E 0 3.5,3.5b
¶17200877
IDC Error ellipse: s-maj=122.0km s-min=39.8km az=112.0.
JMA IV 13 08 05 11.4 36.99N 140.71E 8–1 2.6
¶600586334
ISC IV 13 08 26 05.8–.92 38.62N–.04 142.04E–.05 44–7 4.4b,3.4s 135 1-117
NIED IV 13 08 26 00 38.60N 141.90E 44 4.3W,3.4s **¶16423586**
JMA IV 13 08 26 06.9–.10 38.63N 141.93E 48–1 4.2,3.4s
ISCJB IV 13 08 26 06.0–.48 38.66N–.03 141.93E–.05 58–3 4.4b,3.4s
MOS IV 13 08 26 06.6–.86 38.68N 141.94E 64 4.6b,3.4s
NEIC IV 13 08 26 06.2–.50 38.73N 141.93E 35 4.3b,3.4s
IDC IV 13 08 26 08.7–1.9 38.62N 141.84E 65–17 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ17.00000°,λ76.00000°. NP2:ϕ_s26.00000°,δ74.00000°,λ94.00000°. $M_0$2.99000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=26.2.
MOS Error ellipse: s-maj=8.5km s-min=6.1km az=107.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.0km az=123.0.
IDC Error ellipse: s-maj=14.3km s-min=11.8km az=118.0.
JMA IV 13 08 44 49.6–.10 37.22N 141.19E 35–1 3.5
NIED IV 13 08 44 00 37.20N 141.20E 62 3.6W **¶600586370**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ33.00000°,λ-88.00000°. NP2:ϕ_s236.00000°,δ57.00000°,λ-91.00000°. $M_0$2.41000×10^{14}
JMA IV 13 09 06 13.3 36.97N 140.76E 12–1 3.6
¶600586394
JMA Event type fe.
ISC IV 13 09 27 27.3–1.5 38.36N–.05 142.0E–.10 59–10 3.5b 34 1-58
ISCJB IV 13 09 27 26.5–.87 38.35N–.04 141.97E–.10 71–6 3.5b **¶17200883**
IDC IV 13 09 27 27.5–2.8 38.38N 142.08E 69–22 3.8,3.5
JMA IV 13 09 27 28.2–.10 38.37N 141.88E 65–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=5.8km az=13.9.
IDC Error ellipse: s-maj=42.0km s-min=19.3km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 10 11 45.2–1.3 37.11N–.05 141.3E–.10 56–9 3.4b 21 0-61
NIED IV 13 10 11 00 37.10N 141.10E 53 3.5W **¶600586446**
ISCJB IV 13 10 11 44.9–.98 37.10N–.04 141.25E–.10 61–6 3.4b
JMA IV 13 10 11 47.5–.10 37.13N 141.08E 53–1 3.6
IDC IV 13 10 11 51.5–5.1 36.86N 140.85E 108–35 3.5,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s115.00000°,δ24.00000°,λ27.00000°. NP2:ϕ_s0.00000°,δ80.00000°,λ111.00000°. $M_0$2.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=6.8km az=6.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=54.0km s-min=13.1km az=59.0.
ISC IV 13 10 33 14.7–2.5 39.22N–.06 142.39E–.09 9–14 3.5b 17 1-88
NIED IV 13 10 33 00 39.30N 142.30E 38 3.8W **¶17200887**
ISCJB IV 13 10 33 15.5–1.8 39.20N–.05 142.4E–.10 25–12 3.5b
JMA IV 13 10 33 16.9–.10 39.29N 142.35E 29–1 3.8
IDC IV 13 10 33 20.2–3.0 39.18N 142.46E 57–30 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ31.00000°,λ57.00000°. NP2:ϕ_s231.00000°,δ65.00000°,λ108.00000°. $M_0$5.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.7km s-min=8.0km az=12.9.
JMA Event type fe.
IDC Error ellipse: s-maj=38.0km s-min=16.2km az=105.0.
JMA IV 13 10 45 04.3–.10 37.36N 141.29E 35–1 3.7
NIED IV 13 10 45 00 37.40N 141.30E 53 3.6W **¶600586488**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ45.00000°,λ-170.00000°. NP2:ϕ_s215.00000°,δ83.00000°,λ-46.00000°. $M_0$2.46000×10^{14}
ISC IV 13 10 54 19.2–2.0 35.41N–.05 140.99E–.08 7–13 3.5b 19 0-65
IDC IV 13 10 54 18.0–1.1 35.36N 141.03E 0 3.6,3.4 **¶17200889**
JMA IV 13 10 54 21.6–.10 35.46N 140.92E 23–2 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=18.6km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 11 58 49.1–1.1 36.99N–.05 140.63E–.04 9–9 3.4b 21 0-61
IDC IV 13 11 58 48.5–1.2 36.91N 140.71E 0 3.5,3.4 **¶17200892**
ISCJB IV 13 11 58 49.1–.54 37.00N–.03 140.70E–.05 19–5 3.3b,3.4
JMA IV 13 11 58 49.4 37.01N 140.65E 15–1 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=18.8km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.1km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s45.00000°,δ81.00000°,λ86.00000°. NP2:ϕ_s248.00000°,δ10.00000°,λ113.00000°. Principal axes: T Plg54.0000°,Azm310.0000°; N Plg4.0000°,Azm45.0000°; P Plg36.0000° ,Azm138.0000°
ISC IV 13 12 48 13.3–.74 38.50N–.05 142.12E–.07 41 3.6b 25 1-89
NIED IV 13 12 48 00 38.40N 142.20E 17 3.9W **¶17200895**
JMA IV 13 12 48 10.5–.20 38.44N 142.16E 33–3 4.2
ISCJB IV 13 12 48 11.3–.58 38.41N–.05 142.11E–.06 41 3.8b
IDC IV 13 12 48 14.4–2.8 38.30N 142.25E 56–27 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ58.00000°,λ-36.00000°. NP2:ϕ_s294.00000°,δ60.00000°,λ-143.00000°. $M_0$8.59000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.5km az=155.4.
IDC Error ellipse: s-maj=24.6km s-min=14.8km az=96.0.
ISC IV 13 12 58 17.8–1.7 37.22N–.04 141.29E–.07 7–10 4.3b 68 0-147
NIED IV 13 12 58 00 37.20N 141.20E 5 4.2W **¶602600751**
ISCJB IV 13 12 58 16.8–1.0 37.20N–.04 141.33E–.05 10–6 4.5s,4.2b
MOS IV 13 12 58 17.5–1.6 37.13N 141.37E 24 4.5b,4.2b
JMA IV 13 12 58 19.0 37.23N 141.20E 14–1 4.5,4.2b
NEIC IV 13 12 58 21.7–.48 37.09N 141.29E 35 4.5b,4.2b
IDC IV 13 12 58 22.8–2.6 37.08N 141.11E 43–24 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ41.00000°,λ-37.00000°. NP2:ϕ_s217.00000°,δ67.00000°,λ-124.00000°. $M_0$1.93000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=135.9.
MOS Error ellipse: s-maj=10.1km s-min=7.2km az=85.7.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.3km az=135.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.5km s-min=14.8km az=105.0.
JMA IV 13 12 58 31.4–.10 35.48N 140.85E 25–2 4.2
¶602557297
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 13 29 09.9–.56 38.79N–.05 142.45E–.06 27 4.2b 70 1-88
NIED IV 13 13 29 00 38.90N 142.50E 38 4.1W **¶16427702**

ISCJB IV 13 13 29 07.9–.37 38.81N–.04 142.59E–.05 27 4.2s,4.1b
JMA IV 13 13 29 10.5–.20 38.90N 142.47E 36–2 4.1,4.1b
IDC IV 13 13 29 13.0–2.0 38.85N 142.42E 53–17 4.1,3.9L
NEIC IV 13 13 29 13.1–.72 38.90N 142.48E 54–6 4.4b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ30.00000°,λ-110.00000°. NP2:ϕ_s342.00000°,δ62.00000°,λ-79.00000°. $M_0$1.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.8km az=41.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=10.3km az=103.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.3km az=123.0.
JMA IV 13 13 57 29.8 36.95N 140.63E 5–1 2.5
¶600586666
ISC IV 13 14 06 00.3–1.6 35.89N–.04 141.06E–.09 20–6 3.5b 18 0-60
ISCJB IV 13 14 05 56.5–1.6 35.88N–.05 141.30E–.08 8–8 3.4b **¶17200906**
IDC IV 13 14 05 56.7–1.9 35.94N 141.23E 0 3.5,3.4
JMA IV 13 14 06 00.8–.20 35.85N 141.00E 22–1 3.6,3.4
NIED IV 13 14 06 00 35.80N 141.00E 23 3.5W,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.0km az=156.2.
IDC Error ellipse: s-maj=44.2km s-min=20.0km az=62.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ60.00000°,λ-164.00000°. NP2:ϕ_s241.00000°,δ76.00000°,λ-31.000000°. $M_0$1.84000×10^{14}
ISC IV 13 14 51 25.1–1.1 35.57N–.06 140.15E–.08 67–8 3.4b 16 0-59
IDC IV 13 14 51 15.6–6.1 35.69N 140.43E 0 3.5,3.4 **¶17200907**
ISCJB IV 13 14 51 24.0–.83 35.57N–.06 140.17E–.09 74–5 3.4b,3.4
JMA IV 13 14 51 23.8–.20 35.63N 140.19E 69–2 2.8,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=228.6km s-min=26.2km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=8.4km az=154.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 15 51 00.0–1.3 39.14N–.05 142.05E–.10 42–10 3.5b 24 0-63
ISCJB IV 13 15 50 59.0–.94 39.14N–.05 142.1E–.10 51–7 3.4b **¶17200911**
IDC IV 13 15 51 00.7–3.2 39.06N 142.08E 51–30 3.4,3.3
JMA IV 13 15 51 00.3 39.17N 142.05E 43–1 3.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=6.9km az=12.6.
IDC Error ellipse: s-maj=29.3km s-min=18.7km az=93.0.
ISC IV 13 15 54 20.3–2.6 36.61N–.04 141.88E–.05 30–19 4.2b,4.1s 72 1-147
NIED IV 13 15 54 00 36.70N 141.80E 29 4.1W,4.1s **¶600586765**
IDC IV 13 15 54 16.1–.58 36.60N 141.94E 0 4.1,4.0
ISCJB IV 13 15 54 17.8–1.2 36.58N–.03 141.93E–.04 26–8 4.0b,4.0s
NEIC IV 13 15 54 21.5–.67 36.62N 141.86E 36–6 4.4b,4.0s
JMA IV 13 15 54 21.2–.10 36.66N 141.77E 38–4 4.1,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ42.00000°,λ-95.00000°. NP2:ϕ_s17.00000°,δ48.00000°,λ-86.00000°. $M_0$1.51000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=13.4km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.1km az=22.7.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.9km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 16 05 12.7–2.0 38.14N–.05 141.94E–.07 4–11 3.5b 26 1-77
JMA IV 13 16 05 11.8–.10 38.10N 142.09E 13–1 3.9 **¶17200913**
IDC IV 13 16 05 18.3–3.9 37.83N 142.08E 48–36 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=17.1km az=99.0.
ISC IV 13 16 27 08.4–2.2 36.61N–.05 141.94E–.08 9–12 3.5b 23 1-60
IDC IV 13 16 27 06.3–2.4 36.67N 142.20E 0 3.6,3.5 **¶17200915**
JMA IV 13 16 27 11.9–.20 36.65N 141.80E 30–4 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=24.6km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 13 16 54 51.5–3.5 36.98N–.05 141.36E–.06 5–23 3.4b 23 0-61
ISCJB IV 13 16 54 49.6–1.4 36.96N–.04 141.53E–.06 8–7 3.3b **¶17200918**
IDC IV 13 16 54 50.5–1.1 36.93N 141.39E 0 3.4,3.3
JMA IV 13 16 54 52.5–.10 36.96N 141.37E 26–1 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.0km az=9.6.
IDC Error ellipse: s-maj=24.4km s-min=20.2km az=85.0.
ISC IV 13 17 06 19.3–1.3 39.73N–.04 142.09E–.09 26–7 3.4b 20 0-64
ISCJB IV 13 17 06 18.0–1.0 39.72N–.04 142.1E–.10 31–5 3.3b **¶17200920**
JMA IV 13 17 06 18.9–.10 39.73N 142.07E 31–1 3.5
IDC IV 13 17 06 22.2–2.3 39.74N 142.10E 60–20 3.2,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.9km az=10.6.
IDC Error ellipse: s-maj=32.3km s-min=10.9km az=109.0.
ISC IV 13 18 16 27.6–1.8 37.22N–.04 141.78E–.06 1–11 3.5b 25 1-61
NIED IV 13 18 16 00 37.20N 141.70E 8 3.6W **¶17200926**
ISCJB IV 13 18 16 27.8–1.4 37.21N–.04 141.86E–.08 15–9 3.4b
IDC IV 13 18 16 27.6–1.1 37.17N 141.79E 0 3.6,3.5
JMA IV 13 18 16 29.5–.20 37.19N 141.75E 27–3 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ48.00000°,λ-39.00000°. NP2:ϕ_s210.00000°,δ62.00000°,λ-131.00000°. $M_0$3.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.0km az=22.1.
IDC Error ellipse: s-maj=30.0km s-min=19.7km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 13 18 57 01.0–1.2 36.77N–.04 141.14E–.08 41–10 3.7b 42 0-147
ISCJB IV 13 18 57 00.2–.64 36.75N–.04 141.12E–.07 49–5 3.7b,2.4s **¶17200929**
NIED IV 13 18 57 00 36.80N 141.00E 56 3.9W,2.4s
JMA IV 13 18 57 01.4–.10 36.77N 141.03E 48–1 4.0,2.4s
IDC IV 13 18 57 02.5–1.9 36.74N 141.06E 55–17 3.8,3.7L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=18.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ41.00000°,λ-97.00000°. NP2:ϕ_s9.00000°,δ50.00000°,λ-84.00000°. $M_0$8.24000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=10.8km az=72.0.
JMA IV 13 19 28 03.6–.10 36.54N 140.66E 55–1 2.7
¶600586919
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 13 20 20 28.4–.10 36.27N 140.05E 56–1 2.6
¶600586949
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 13 20 30 54.2–21 39.90N 142.45E 0 3.6b,3.5
¶17200942
IDC Error ellipse: s-maj=379.0km s-min=55.4km az=129.0.
ISC IV 13 20 39 31.8–.82 37.40N–.03 141.31E–.06 20–6 4.2b 51 0-82
ISCJB IV 13 20 39 31.9–.69 37.37N–.03 141.38E–.06 36–6 4.1b **¶16427210**
JMA IV 13 20 39 33.4–.10 37.42N 141.27E 31–1 4.1
NEIC IV 13 20 39 34.6–.94 37.37N 141.33E 43–9 4.4b
IDC IV 13 20 39 36.5–2.0 37.31N 141.21E 62–19 4.1,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.6km az=5.9.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=8.8km az=100.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=15.3km s-min=12.1km az=78.0.
JMA IV 13 21 42 14.8–.10 38.06N 141.78E 53–1 3.5
¶602557273
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 21 43 07.1–.94 36.99N–.03 140.59E–.04 12–6 4.1b 46 0-147
IDC IV 13 21 43 05.1–.61 36.96N 140.57E 0 4.1,4.0 **¶602557289**
ISCJB IV 13 21 43 06.5–.44 36.99N–.03 140.63E–.05 23–3 4.0b,4.0
JMA IV 13 21 43 07.1 37.00N 140.60E 9–1 4.1,4.0
NEIC IV 13 21 43 10.8–.93 36.96N 140.49E 39–8 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=11.7km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=24.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s213.00000°,δ47.00000°,λ-99.00000°. NP2:ϕ_s46.00000°,δ43.00000°,λ-80.00000°. Principal axes: T Plg2.0000°,Azm309.0000°; N Plg7.0000°,Azm219.0000°; P Plg83.0000°,Azm55.0000°
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.3km az=118.0. Recorded [3 JMA] in Ibaraki.
JMA IV 13 22 10 20.9 36.96N 140.71E 9–1 2.9
¶600586991
ISC IV 13 22 35 51.6–.61 36.79N–.02 140.52E–.03 17–3 5.2b,4.3s 998 0-162
NIED IV 13 22 35 00 36.80N 140.60E 5 4.9W,4.3s **¶602557269**
BJI IV 13 22 35 47.5 36.65N 140.94E 26 5.0b,4.7b
JMA IV 13 22 35 49.7 36.78N 140.57E 9–1 5.1,4.7b
ISCJB IV 13 22 35 49.5–.42 36.80N–.02 140.50E–.02 10–2 5.1b,4.4s
IDC IV 13 22 35 49.1–.29 36.83N 140.44E 0 5.0,5.0b
MOS IV 13 22 35 53.8–1.2 36.98N 140.37E 35 5.3b,4.1s
NEIC IV 13 22 35 53.3–.69 36.80N 140.37E 25–4 5.2b,4.1s
GCMT IV 13 22 35 53.3–.30 36.89N 140.49E 15–1 5.0W,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ29.00000°,λ-109.00000°. NP2:ϕ_s155.00000°,δ63.00000°,λ-80.00000°. $M_0$2.41000×10^{16}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s285.00000°,δ51.00000°,λ-119.00000°. NP2:ϕ_s146.00000°,δ47.00000°,λ-59.00000°. Principal axes: T Plg2.0000°,Azm35.0000°; N Plg22.0000°,Azm304.0000°; P Plg68.0000°,Azm130.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=141.5.
IDC Error ellipse: s-maj=9.5km s-min=7.6km az=117.0.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=137.0. Recorded [4 JMA] in Ibaraki.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c30; s98,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.58±.22 $M_{\theta\theta}$1.84±.14; $M_{\phi\phi}$1.74±.14; $M_{r\theta}$0.11±.42; $M_{\theta\phi}$-1.41±.07; $M_{\phi r}$0.33±.53; Best double couple: NP1:ϕ_s139.00000°,δ46.00000°,λ-84.00000°. NP2:ϕ_s309.00000°,δ44.00000°,λ-97.00000°. Principal axes: T 3.2040,Plg1.0000°,Azm224.0000°; N 0.4050,Plg5.0000°,Azm314.0000°; P -3.6090,Plg85.0000°,Azm119.0000° $M_0$3.40700×10^{16}
ISC IV 13 22 49 59.6–2.4 36.35N–.05 141.94E–.09 25–16 3.5b 19 1-64
IDC IV 13 22 50 00.5–7.6 36.28N 142.13E 34–61 3.6L,3.5 **¶600587018**
JMA IV 13 22 50 01.5–.20 36.41N 141.81E 49 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.6km s-min=24.1km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 13 22 52 18.0 36.81N 140.57E 8–1 2.6
¶600587022
JMA IV 13 23 00 55.6 36.94N 140.69E 8–1 2.6
¶17200960
ISC IV 13 23 01 16.3–.95 36.73N–.04 140.62E–.06 12–6 3.3b 16 0-78
IDC IV 13 23 01 14.6–1.2 36.55N 140.59E 0 4.1s,4.1 **¶600587027**
ISCJB IV 13 23 01 15.6–.66 36.72N–.04 140.65E–.07 16–6 4.0s,3.2b
JMA IV 13 23 01 16.4 36.77N 140.58E 9–1 3.7,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=23.1km s-min=15.5km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.8km az=26.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s339.00000°,δ52.00000°,λ-100.00000°. NP2:ϕ_s175.00000°,δ40.00000°,λ-78.00000°. Principal axes: T Plg6.0000°,Azm76.0000°; N Plg8.0000°,Azm345.0000°; P Plg80.0000°,Azm203.0000°
ISC IV 13 23 05 30.3–.87 37.14N–.06 141.26E–.09 22–5 3.7b 27 0-147
ISCJB IV 13 23 05 28.5–1.4 37.15N–.06 141.40E–.08 20–8 3.6b **¶17200961**
JMA IV 13 23 05 30.1–.10 37.12N 141.26E 27–1 3.7
IDC IV 13 23 05 34.4–4.2 37.11N 141.07E 53–38 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=8.3km az=37.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.1km s-min=24.2km az=57.0.
ISC IV 13 23 09 04.8–2.0 39.49N–.04 142.61E–.07 2–11 3.8b 32 1-73
JMA IV 13 23 09 05.8–.10 39.52N 142.68E 23–1 3.8 **¶17200962**
IDC IV 13 23 09 14.2–2.0 39.54N 142.56E 77–17 4.0s,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=10.8km az=117.0.
ISC IV 14 00 10 06.6–.53 38.30N–.04 142.28E–.04 24–3 4.3b,3.7s 124 1-89
NIED IV 14 00 10 00 38.30N 142.20E 23 4.2W,3.7s **¶600587097**
ISCJB IV 14 00 10 03.2–1.2 38.25N–.03 142.38E–.03 15–7 4.2b,3.8s
MOS IV 14 00 10 05.1–1.2 38.36N 142.28E 26 4.5b,3.8s
NEIC IV 14 00 10 06.6–1.7 38.29N 142.22E 24–12 4.5b,3.8s
JMA IV 14 00 10 06.7–.20 38.35N 142.25E 35–3 4.2,3.8s
IDC IV 14 00 10 07.8–.61 38.26N 142.17E 30–3 4.2,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ33.00000°,λ-113.00000°. NP2:ϕ_s308.00000°,δ60.00000°,λ-76.00000°. $M_0$2.13000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.6km az=39.8.
MOS Error ellipse: s-maj=9.9km s-min=5.9km az=90.7.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.3km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=11.2km az=109.0.
ISC IV 14 00 15 17.1–.60 34.84N–.05 140.82E–.09 48 3.9s,3.8b 38 0-119
IDC IV 14 00 15 10.7–.62 34.92N 140.94E 0 3.9,3.8 **¶16587507**
JMA IV 14 00 15 11.7–.20 34.90N 141.20E 43–3 3.5,3.8
ISCJB IV 14 00 15 14.6–.44 34.81N–.04 140.93E–.07 48 3.9s,3.8b
NEIC IV 14 00 15 14.1–3.3 34.91N 140.88E 23–23 4.4b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=13.8km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.0km az=153.2.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=8.3km az=69.0.
JMA IV 14 01 00 07.3–.10 38.39N 141.77E 58–1 3.7
NIED IV 14 01 00 00 38.40N 141.80E 56 3.7W **¶600587134**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ26.00000°,λ58.00000°. NP2:ϕ_s287.00000°,δ68.00000°,λ104.00000°. $M_0$4.06000×10^{14}
ISC IV 14 01 06 48.6–.69 38.55N–.04 141.69E–.06 54–5 3.9b 56 0-89
NIED IV 14 01 06 00 38.60N 141.60E 59 4.1W **¶16427213**
ISCJB IV 14 01 06 47.3–.50 38.56N–.03 141.69E–.06 60–3 3.9b
JMA IV 14 01 06 48.7–.10 38.56N 141.60E 54–1 4.1
IDC IV 14 01 06 48.8–.71 38.56N 141.59E 55–7 3.9,3.7
NEIC IV 14 01 06 49.6–.84 38.59N 141.64E 63–7 4.3b,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ80.00000°,λ170.00000°. NP2:ϕ_s91.00000°,δ80.00000°,λ10.00000°. $M_0$1.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.4km az=22.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=11.8km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=12.0km s-min=6.8km az=123.0. Recorded [3 JMA] in Miyagi.
ISC IV 14 02 24 09.8–1.0 36.95N–.03 140.66E–.04 8–6 3.9b 45 0-147
NIED IV 14 02 24 00 37.00N 140.70E 5 3.7W **¶16532022**
ISCJB IV 14 02 24 08.8–.62 36.91N–.02 140.82E–.04 15–4 3.9b
IDC IV 14 02 24 08.7–.65 36.93N 140.66E 0 4.1,4.0L
JMA IV 14 02 24 09.9 36.95N 140.67E 7–1 3.9,4.0L
NEIC IV 14 02 24 09.7–.41 36.87N 140.73E 10 4.2b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ28.00000°,λ-77.00000°. NP2:ϕ_s311.00000°,δ63.00000°,λ-97.00000°. $M_0$4.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.6km az=23.6.
IDC Error ellipse: s-maj=20.6km s-min=15.1km az=111.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s284.00000°,δ75.00000°,λ-94.00000°. NP2:ϕ_s121.00000°,δ16.00000°,λ-74.00000°. Principal axes: T Plg30.0000°,Azm18.0000°; N Plg4.0000°,Azm286.0000°; P Plg60.0000°,Azm188.0000°
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.8km az=109.0.
ISC IV 14 03 13 59.2–1.8 38.96N–.04 142.39E–.07 26–13 4.1b 37 1-88
NIED IV 14 03 13 00 39.00N 142.50E 11 4.0W **¶600587212**

ISCJB IV 14 03 13 59.4–.86 38.98N–.04 142.45E–.08 42–8 4.1b,3.9s
JMA IV 14 03 13 59.0–.10 39.02N 142.46E 29–2 4.2,3.9s
IDC IV 14 03 14 01.9–2.0 38.91N 142.44E 47–20 4.0,4.0
NEIC IV 14 03 14 02.5–.86 38.98N 142.40E 53–8 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ33.00000°,λ-126.00000°. NP2:ϕ_s138.00000°,δ64.00000°,λ-69.00000°. $M_0$1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.4km az=22.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=12.9km az=101.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=6.4km az=119.0.
JMA IV 14 04 07 40.6–.10 38.92N 142.28E 33–1 3.5
¶600587238
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 14 04 42 55.4–.10 35.83N 140.96E 16–1 3.4
¶17200985
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s338.00000°,δ69.00000°,λ-114.00000°. NP2:ϕ_s209.00000°,δ31.00000°,λ-43.00000°. Principal axes: T Plg21.0000°,Azm86.0000° ; N Plg22.0000°,Azm347.0000°; P Plg59.0000°,Azm215.0000°
ISC IV 14 04 43 24.2–.79 37.62N–.05 141.60E–.07 50–7 3.8b 36 1-146
NIED IV 14 04 43 00 37.60N 141.60E 41 3.9W **¶600587245**
ISCJB IV 14 04 43 23.0–.88 37.61N–.04 141.62E–.09 55–7 3.8b
IDC IV 14 04 43 24.6–.76 37.59N 141.51E 54–7 3.8,3.7
JMA IV 14 04 43 24.1–.10 37.63N 141.59E 41–2 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ39.00000°,λ109.00000°. NP2:ϕ_s241.00000°,δ53.00000°,λ75.00000°. $M_0$9.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.4km az=20.3.
IDC Error ellipse: s-maj=22.1km s-min=14.8km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 14 04 46 31.7–.45 39.74N–.03 143.00E–.04 19–1 4.9b,4.4s 399 1-145
NIED IV 14 04 46 00 39.70N 143.30E 20 4.7W,4.4s **¶16427222**
JMA IV 14 04 46 29.9–.30 39.65N 143.31E 22–5 4.7,4.4s
MOS IV 14 04 46 31.4–.84 39.88N 142.96E 22 5.1b,4.4s
IDC IV 14 04 46 31.7–5.1 39.60N 143.23E 27–34 4.6,4.5
BJI IV 14 04 46 31.2 39.58N 142.86E 26 5.0b,4.9b
ISCJB IV 14 04 46 32.0–.93 39.79N–.03 143.00E–.04 29–6 4.8b,4.3s
NEIC IV 14 04 46 33.8–.70 39.67N 143.01E 36–6 4.8b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ18.00000°,λ77.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ94.00000°. $M_0$1.34000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.1km az=108.4.
IDC Error ellipse: s-maj=13.7km s-min=10.5km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=41.4.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=132.0.
JMA IV 14 04 54 48.1–.10 37.83N 141.81E 47–2 3.8
¶600587250
JMA Event type fe.
ISC IV 14 04 59 38.8–1.1 36.88N–.03 140.69E–.05 12–8 18 0-61
ISCJB IV 14 04 59 37.9–.76 36.84N–.04 140.78E–.07 20–7 3.8b **¶17200988**
IDC IV 14 04 59 38.8–3.5 36.54N 140.66E 0 3.9,3.6
JMA IV 14 04 59 38.7 36.88N 140.70E 5–1 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.3km az=19.1.
IDC Error ellipse: s-maj=70.0km s-min=18.1km az=16.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s176.00000°,δ49.00000°,λ-114.00000°. NP2:ϕ_s30.00000°,δ47.00000°,λ-65.00000°. Principal axes: T Plg1.0000°,Azm283.0000°; N Plg18.0000°,Azm193.0000°; P Plg72.0000° ,Azm16.0000°
ISC IV 14 05 46 43.1–.85 38.00N–.05 142.42E–.06 14 4.0b 31 1-76
NIED IV 14 05 46 00 37.90N 142.60E 17 3.9W **¶17200991**
JMA IV 14 05 46 40.4–.40 37.94N 142.65E 6 4.1
IDC IV 14 05 46 47.0–3.5 38.06N 142.48E 41–27 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ30.00000°,λ11.00000°. NP2:ϕ_s7.00000°,δ85.00000°,λ120.00000°. $M_0$9.36000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=16.5km az=141.0.
JMA IV 14 05 49 00.5 36.98N 140.60E 8–1 3.5
¶600587298
JMA Event type fe.
ISC IV 14 06 03 13.8–.82 38.33N–.04 141.54E–.07 66–6 3.9b 43 0-146
NIED IV 14 06 03 00 38.30N 141.50E 65 4.0W **¶600587310**
ISCJB IV 14 06 03 13.0–.54 38.32N–.04 141.57E–.07 72–4 3.7b
JMA IV 14 06 03 14.2 38.33N 141.49E 66–1 3.5
IDC IV 14 06 03 17.8–2.4 38.28N 141.40E 104–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ36.00000°,λ83.00000°. NP2:ϕ_s5.00000°,δ55.00000°,λ95.00000°. $M_0$1.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.8km az=23.0.
JMA Event type fe.
IDC Error ellipse: s-maj=19.8km s-min=14.1km az=101.0.
ISC IV 14 06 07 07.5–.43 36.73N–.04 141.60E–.04 24–2 5.1s,4.9b 342 1-152
NIED IV 14 06 07 00 36.70N 141.60E 26 4.3W,4.9b **¶16437942**
IDC IV 14 06 07 03.7–.43 36.71N 141.67E 0 5.0s,4.9
MOS IV 14 06 07 05.9–.94 36.69N 141.62E 24 4.7b,4.9
ISCJB IV 14 06 07 06.9–.85 36.69N–.03 141.56E–.03 29–5 5.0s,4.8b
JMA IV 14 06 07 06.3–.30 36.74N 141.64E 33–4 4.3,4.8b
BJI IV 14 06 07 07.2 36.41N 141.64E 44 5.5s,5.2
NEIC IV 14 06 07 09.4–.43 36.69N 141.58E 36–4 5.1b,5.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ78.00000°,λ172.00000°. NP2:ϕ_s12.00000°,δ82.00000°,λ13.00000°. $M_0$3.51000×10^{15}
IDC Error ellipse: s-maj=13.3km s-min=10.4km az=107.0.
MOS Error ellipse: s-maj=8.6km s-min=6.0km az=101.9.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=138.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=128.0.
ISC IV 14 06 08 49.1–.41 35.65N–.03 141.90E–.03 20–1 5.5s,5.3b 622 1-166
NIED IV 14 06 08 00 35.50N 142.50E 5 5.7W,5.3b **¶16427228**
JMA IV 14 06 08 42.6–.30 35.52N 142.47E 28 6.0,5.3b
IDC IV 14 06 08 44.4–.45 35.46N 142.26E 0 5.2,5.2s
BJI IV 14 06 08 45.1 35.65N 141.80E 10 6.0s,5.9
ISCJB IV 14 06 08 47.7–.13 35.56N–.02 141.92E–.02 22 5.6s,5.1b
GCMT IV 14 06 08 47.3–.10 35.50N 142.25E 12 5.6W,5.1b
NEIC IV 14 06 08 47.3–.16 35.56N 141.88E 10 5.8W,5.7W
NEIC IV 14 06 08 48.0–.00 35.08N 141.87E 15 5.8W,5.7W
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ19.00000°,λ81.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ93.00000°. $M_0$4.17000×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=10.3km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=160.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c179; s129,c338;Duration: 1$\fallingdotseq$6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.36±.02 $M_{\theta\theta}$-0.34±.02; $M_{\phi\phi}$-2.02±.02; $M_{r\theta}$0.91±.07; $M_{\theta\phi}$-0.79±.02; $M_{\phi r}$2.38±.07; Best double couple: NP1:ϕ_s21.00000° ,δ69.00000°,λ90.00000°. NP2:ϕ_s202.00000°,δ21.00000°,λ91.00000°. Principal axes: T 3.4770,Plg66.0000°,Azm290.0000°; N -0.0220,Plg0.0000°,Azm21.0000° ; P -3.4520,Plg24.0000°,Azm111.0000° $M_0$3.46400×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=140.0. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17}Nm; M_{rr}3.65 $M_{\theta\theta}$-1.72 $M_{\phi\phi}$-1.93 $M_{r\theta}$2.00 $M_{\theta\phi}$-2.07 $M_{\phi r}$4.16 Best double couple: NP1:ϕ_s237.00000°,δ21.00000°,λ116.00000°. NP2:ϕ_s30.00000° ,δ71.00000°,λ80.00000°. Principal axes: T 5.9600,Plg63.0000°,Azm284.0000° ; N 0.0200,Plg9.0000°,Azm33.0000°; P -5.9800,Plg25.0000°,Azm127.0000° $M_0$6.00000×10^{17}
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}1.20 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-1.30 $M_{r\theta}$1.20 $M_{\theta\phi}$-0.90 $M_{\phi r}$3.90 Best double couple: NP1:ϕ_s16.00000° ,δ80.00000°,λ85.00000°. NP2:ϕ_s223.00000°,δ11.00000°,λ117.00000°. Principal axes: T 4.1000,Plg54.0000°,Azm280.0000°; N 0.6000,Plg4.0000°,Azm17.0000° ; P -4.6000,Plg35.0000°,Azm110.0000° $M_0$4.00000×10^{17}
IDC IV 14 06 22 16.3–3.1 38.50N 142.83E 0 3.6,3.5b
¶17200993
IDC Error ellipse: s-maj=70.3km s-min=39.1km az=63.0.
JMA IV 14 07 28 49.5 36.95N 140.67E 7–1 3.0
¶600587363
ISC IV 14 07 31 59.8–.59 37.13N–.04 141.49E–.05 31–3 3.8b 43 1-147
ISCJB IV 14 07 31 58.9–.83 37.11N–.03 141.52E–.07 39–8 3.7b **¶16427232**
JMA IV 14 07 32 00.5–.10 37.16N 141.40E 44–1 4.0
NIED IV 14 07 32 00 37.20N 141.50E 53 4.1W
IDC IV 14 07 32 01.6–.57 37.11N 141.36E 45–6 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.3km az=14.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ21.00000°,λ139.00000°. NP2:ϕ_s17.00000°,δ76.00000°,λ74.00000°. $M_0$1.78000×10^{15}
IDC Error ellipse: s-maj=18.2km s-min=9.5km az=112.0.
ISC IV 14 08 47 10.6–1.4 36.58N–.04 141.84E–.04 11–8 4.6b,3.8s 192 1-147
NIED IV 14 08 47 00 36.60N 141.80E 29 4.4W,3.8s **¶16437943**
IDC IV 14 08 47 09.0–.50 36.54N 141.77E 0 4.5,4.4
ISCJB IV 14 08 47 10.8–.77 36.55N–.02 141.82E–.03 21–5 4.5b,3.8s
MOS IV 14 08 47 12.1–1.1 36.65N 141.81E 29 4.7b,3.8s
JMA IV 14 08 47 12.4–.20 36.58N 141.76E 34–4 4.5,3.8s
BJI IV 14 08 47 12.0 36.35N 142.08E 55 4.8b,4.6b
NEIC IV 14 08 47 14.8–.60 36.57N 141.72E 36–5 4.6b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ32.00000°,λ-68.00000°. NP2:ϕ_s225.00000°,δ61.00000°,λ-103.00000°. $M_0$4.09000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=12.1km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=4.0km az=43.0.
MOS Error ellipse: s-maj=7.9km s-min=5.4km az=101.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=129.0.
JMA IV 14 09 05 20.1 36.87N 140.70E 6–1 2.5
¶600587426
ISC IV 14 09 53 59.3–2.1 39.13N–.04 142.41E–.08 17–11 3.7b 27 1-59
ISCJB IV 14 09 53 59.3–1.3 39.13N–.04 142.45E–.08 22–7 3.5b **¶17201004**
JMA IV 14 09 54 00.3–.10 39.15N 142.40E 26–2 3.8
NIED IV 14 09 54 00 39.20N 142.40E 8 3.7W
IDC IV 14 09 54 05.5–3.1 39.09N 142.36E 67–29 3.4,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.6km az=15.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ33.00000°,λ-122.00000°. NP2:ϕ_s88.00000°,δ62.00000°,λ-71.00000°. $M_0$3.96000×10^{14}
IDC Error ellipse: s-maj=32.0km s-min=20.7km az=105.0.
ISC IV 14 09 56 59.1–1.2 38.36N–.04 141.88E–.09 49–11 3.9b 39 0-146
NIED IV 14 09 56 00 38.40N 141.80E 59 4.0W **¶17201005**
ISCJB IV 14 09 56 58.5–.65 38.37N–.04 141.85E–.08 59–5 3.9b,2.8s
JMA IV 14 09 56 59.8–.10 38.39N 141.76E 57–1 4.1,2.8s
IDC IV 14 09 57 00.1–2.2 38.35N 141.80E 60–21 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ31.00000°,λ97.00000°. NP2:ϕ_s195.00000°,δ59.00000°,λ86.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.3km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.3km s-min=12.4km az=114.0.
ISC IV 14 11 02 27.1–1.1 36.85N–.03 140.63E–.04 7–7 4.1b 60 0-147
NIED IV 14 11 02 00 36.80N 140.60E 5 4.1W **¶16436899**
IDC IV 14 11 02 25.8–.56 36.81N 140.60E 0 4.2,4.1
ISCJB IV 14 11 02 26.9–.46 36.82N–.02 140.68E–.04 19–3 4.0b,2.9s
JMA IV 14 11 02 27.6 36.85N 140.59E 9–1 4.2,2.9s
NEIC IV 14 11 02 30.4–.46 36.77N 140.63E 35 4.6b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ18.00000°,λ-120.00000°. NP2:ϕ_s196.00000°,δ75.00000°,λ-81.00000°. $M_0$1.57000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=12.5km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=27.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s329.00000°,δ53.00000°,λ-129.00000°. NP2:ϕ_s202.00000°,δ51.00000°,λ-50.00000°. Principal axes: T Plg1.0000°,Azm85.0000°; N Plg30.0000°,Azm354.0000°; P Plg60.0000° ,Azm177.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=8.2km az=114.0. Recorded [3 JMA] in Fukushima.
JMA IV 14 11 06 38.5 36.92N 140.69E 17–1 2.5
¶600587477
ISC IV 14 11 40 53.6–.69 35.28N–.04 141.20E–.09 21–5 3.7b 25 1-79
NIED IV 14 11 40 00 35.30N 141.20E 35 4.1W **¶17201017**
IDC IV 14 11 40 50.3–.70 35.25N 141.22E 0 3.9,3.9L
ISCJB IV 14 11 40 52.7–.95 35.26N–.04 141.24E–.07 30–6 3.7b,3.9L
JMA IV 14 11 40 53.1–.10 35.33N 141.20E 36–2 3.8,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ26.00000°,λ155.00000°. NP2:ϕ_s322.00000°,δ80.00000°,λ66.00000°. $M_0$1.60000×10^{15}
IDC Error ellipse: s-maj=22.6km s-min=13.8km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.1km az=173.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 14 11 46 48.4–1.3 36.96N–.03 140.54E–.03 0–8 3.9b 45 0-91
NIED IV 14 11 46 00 37.00N 140.60E 8 3.8W **¶602557484**
IDC IV 14 11 46 48.9–.68 36.96N 140.45E 0 4.0,3.9
ISCJB IV 14 11 46 49.4–.48 36.99N–.03 140.68E–.04 18–3 3.9b,3.9
JMA IV 14 11 46 49.9 37.02N 140.59E 9–1 4.1,3.9
NEIC IV 14 11 46 53.2–.52 36.87N 140.54E 35 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s126.00000°,δ25.00000°,λ-74.00000°. NP2:ϕ_s288.00000°,δ66.00000°,λ-98.00000°. $M_0$5.59000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=14.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.2km az=29.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s78.00000°,δ53.00000°,λ-102.00000°. NP2:ϕ_s278.00000°,δ39.00000°,λ-74.00000°. Principal axes: T Plg7.0000°,Azm177.0000°; N Plg10.0000°,Azm86.0000°; P Plg78.0000° ,Azm301.0000°
NEIC Event type fe. Error ellipse: s-maj=12.3km s-min=9.5km az=116.0. Recorded [3 JMA] in Fukushima.
ISC IV 14 11 57 02.4–.65 37.59N–.04 141.85E–.05 26–4 3.6b 48 1-146
ISCJB IV 14 11 56 60.0–1.2 37.58N–.03 141.92E–.06 17–8 3.6b,3.5s **¶16505371**
JMA IV 14 11 57 01.4–.20 37.61N 141.84E 26–4 4.0,3.5s
IDC IV 14 11 57 03.1–.68 37.57N 141.84E 26–4 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.4km az=13.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=14.3km az=104.0.
ISC IV 14 12 17 36.5–.93 36.73N–.03 140.51E–.05 9–6 3.6b 28 0-91
NIED IV 14 12 17 00 36.70N 140.60E 5 3.7W **¶17201020**
ISCJB IV 14 12 17 35.6–.75 36.67N–.03 140.74E–.05 12–4 3.6b
JMA IV 14 12 17 36.9 36.71N 140.63E 7–1 3.6
IDC IV 14 12 17 42.0–3.4 36.68N 140.47E 49–33 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ28.00000°,λ-52.00000°. NP2:ϕ_s137.00000°,δ69.00000°,λ-108.00000°. $M_0$4.23000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.7km az=35.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s334.00000°,δ54.00000°,λ-88.00000°. NP2:ϕ_s150.00000°,δ36.00000°,λ-93.00000°. Principal axes: T Plg9.0000°,Azm62.0000°; N Plg2.0000°,Azm152.0000°; P Plg81.0000° ,Azm255.0000°
IDC Error ellipse: s-maj=24.3km s-min=17.4km az=98.0.
ISC IV 14 13 06 19.3–1.4 35.92N–.04 140.85E–.09 34–3 3.7b,3.4s 24 0-91
ISCJB IV 14 13 06 17.9–.63 35.89N–.04 140.96E–.10 47–5 3.7b,3.5s **¶600587565**
NEIC IV 14 13 06 18.7–.65 35.90N 141.01E 35 4.3b,3.5s
IDC IV 14 13 06 18.6–3.7 35.82N 141.01E 34–30 3.9L,3.8
JMA IV 14 13 06 19.3–.10 35.88N 140.85E 40–1 3.4,3.8

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=6.0km az=172.7.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.2km az=86.0.
IDC Error ellipse: s-maj=25.3km s-min=14.4km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s343.00000°,δ87.00000°,λ73.00000°. NP2: ϕ_s244.00000°,δ17.00000°,λ171.00000°. Principal axes: T Plg45.0000°,Azm236.0000° ; N Plg17.0000°,Azm343.0000°; P Plg40.0000°,Azm88.0000°

JMA IV 14 13 15 20.7–.10 39.28N 142.34E 30–1 3.7
NIED IV 14 13 15 00 39.30N 142.30E 11 3.6W **¶600587574**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ54.00000°,λ-155.00000°. NP2:ϕ_s184.00000°,δ70.00000°,λ-39.00000°. $M_0$2.60000×10^{14}

ISC IV 14 14 05 53.5–2.0 39.00N–.04 142.49E–.08 15–11 3.7b 33 1-63
NIED IV 14 14 05 00 39.00N 142.40E 47 4.2W **¶17201030**
JMA IV 14 14 05 55.9–.10 39.02N 142.39E 32–2 3.7
IDC IV 14 14 05 57.0–3.0 39.04N 142.69E 45–24 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ26.00000°,λ-15.00000°. NP2:ϕ_s126.00000°,δ84.00000°,λ-115.00000°. $M_0$2.10000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.4km s-min=20.2km az=81.0.

ISC IV 14 14 34 16.1–1.1 36.94N–.03 140.65E–.04 19–3 23 0-61
ISCJB IV 14 14 34 15.7–.59 36.93N–.03 140.72E–.05 20–5 3.5b **¶600587635**
IDC IV 14 14 34 15.1–5.5 38.22N 136.43E 59–56 3.3,3.3
JMA IV 14 14 34 16.4 36.95N 140.62E 8–1 3.6,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=20.6.
IDC Error ellipse: s-maj=72.6km s-min=21.8km az=78.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s238.00000°,δ60.00000°,λ-98.00000°. NP2:ϕ_s74.00000°,δ31.00000°,λ-77.00000°. Principal axes: T Plg14.0000°,Azm334.0000°; N Plg7.0000°,Azm242.0000°; P Plg74.0000° ,Azm127.0000°

JMA IV 14 15 27 44.7–.10 38.64N 142.41E 39–2 3.5
NIED IV 14 15 27 00 38.60N 142.40E 65 3.6W **¶600587682**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ24.00000°,λ116.00000°. NP2:ϕ_s248.00000°,δ69.00000°,λ79.00000°. $M_0$2.91000×10^{14}

JMA IV 14 15 36 14.9 36.90N 140.71E 9 3.0
¶600587693

JMA IV 14 15 52 41.0–.10 37.81N 141.53E 41–2 3.2
¶17201038

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 14 16 48 34.4–.20 35.72N 140.96E 9–1 3.5
NIED IV 14 16 48 00 35.70N 141.00E 8 3.6W **¶600587780**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ30.00000°,λ-74.00000°. NP2:ϕ_s166.00000°,δ61.00000°,λ-99.00000°. $M_0$3.28000×10^{14}

ISC IV 14 19 07 43.5–.88 36.95N–.03 140.70E–.05 14–6 3.5b 31 0-69
NIED IV 14 19 07 00 37.00N 140.70E 5 3.6W **¶600587916**
ISCJB IV 14 19 07 42.8–.59 36.94N–.03 140.81E–.06 20–4 3.5b
JMA IV 14 19 07 43.8 36.95N 140.67E 6–1 3.8
IDC IV 14 19 07 47.3–2.3 36.98N 140.73E 41–21 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ36.00000°,λ-105.00000°. NP2:ϕ_s234.00000°,δ56.00000°,λ-80.00000°. $M_0$2.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.5km az=17.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s226.00000°,δ45.00000°,λ-82.00000°. NP2:ϕ_s34.00000°,δ45.00000°,λ-98.00000°. Principal axes: T Plg0.0000°,Azm310.0000°; N Plg6.0000°,Azm40.0000°; P Plg84.0000° ,Azm220.0000°
IDC Error ellipse: s-maj=15.9km s-min=11.6km az=63.0.

ISC IV 14 19 28 38.8–1.3 34.86N–.05 140.96E–.07 30–9 16 0-55
JMA IV 14 19 28 37.5–.30 34.84N 141.17E 40–4 2.9 **¶17201052**
ISCJB IV 14 19 28 38.4–1.1 34.78N–.05 141.0E–.10 44–9 3.2b
IDC IV 14 19 28 39.9–9.2 34.87N 140.77E 32–63 3.2,3.1b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=9.0km az=170.1.
IDC Error ellipse: s-maj=71.1km s-min=21.1km az=73.0.

ISC IV 14 19 33 28.5–1.6 36.32N–.04 141.34E–.07 25–12 3.2b 27 1-60
IDC IV 14 19 33 24.1–1.1 36.36N 141.69E 0 3.6,3.6 **¶17201053**
ISCJB IV 14 19 33 28.5–.81 36.29N–.03 141.36E–.07 42–9 3.2b,3.6
JMA IV 14 19 33 30.1–.10 36.31N 141.19E 47–2 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=18.3km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.4km az=2.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 14 19 47 43.9 36.70N 140.57E 7–1 3.5
NIED IV 14 19 47 00 36.70N 140.60E 5 3.3W **¶600587956**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ40.00000°,λ-40.00000°. NP2:ϕ_s161.00000°,δ66.00000°,λ-122.00000°. $M_0$1.10000×10^{14}

ISC IV 14 20 00 43.8–1.4 37.18N–.04 141.26E–.08 24–9 3.7b 42 0-147
NIED IV 14 20 00 00 37.20N 141.20E 26 3.9W **¶602557494**
IDC IV 14 20 00 40.2–.60 37.19N 141.22E 0 4.0,3.8
ISCJB IV 14 20 00 42.1–.95 37.16N–.04 141.36E–.07 26–6 3.7b,2.9s
JMA IV 14 20 00 44.2–.10 37.21N 141.22E 31–1 4.2,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ38.00000°,λ-73.00000°. NP2:ϕ_s211.00000°,δ54.00000°,λ-103.00000°. $M_0$9.16000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=15.1km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.8km az=13.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC IV 14 20 21 45.1–3.0 35.76N 141.58E 0 3.5,3.5
¶17201058

IDC Error ellipse: s-maj=67.9km s-min=25.2km az=63.0.

ISC IV 14 20 28 06.4–.66 36.01N–.05 141.18E–.08 31 4.0s,3.5b 26 0-147
IDC IV 14 20 28 01.9–.77 35.96N 141.29E 0 3.8,3.7 **¶16505375**
ISCJB IV 14 20 28 05.1–.57 36.05N–.04 141.22E–.06 31 3.8s,3.5b
JMA IV 14 20 28 06.6–.10 36.03N 141.08E 39–2 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=16.2km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.9km az=18.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 14 21 58 02.3 36.98N 140.64E 8–1 3.0
¶17201067

ISC IV 14 22 00 25.5–1.7 39.01N–.04 142.45E–.05 14–10 3.9b 53 1-88
NIED IV 14 22 00 00 39.10N 142.40E 32 4.1W **¶16577812**
JMA IV 14 22 00 27.3–.10 39.07N 142.39E 31–1 4.1
IDC IV 14 22 00 31.4–2.4 38.97N 142.26E 59–22 4.2,4.2s
NEIC IV 14 22 00 32.3–.88 38.94N 142.31E 70–7 4.3b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ28.00000°,λ-100.00000°. NP2:ϕ_s194.00000°,δ62.00000°,λ-84.00000°. $M_0$1.62000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=12.1km az=107.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.7km az=124.0.

JMA IV 14 22 15 36.3–.10 38.36N 142.28E 26–2 3.5
¶600588102

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 14 22 24 05.6–2.0 38.85N–.05 142.25E–.08 26–14 3.4b 20 1-62
NIED IV 14 22 24 00 38.90N 142.30E 59 4.2W **¶17201068**
IDC IV 14 22 24 01.6–1.1 38.84N 142.49E 0 3.8s,3.8
ISCJB IV 14 22 24 03.7–1.6 38.87N–.05 142.4E–.10 23–10 3.8s,3.4b
JMA IV 14 22 24 06.0–.20 38.92N 142.27E 37–3 3.8,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ52.00000°,λ152.00000°. NP2:ϕ_s107.00000°,δ68.00000°,λ41.00000°. $M_0$2.41000×10^{15}
IDC Error ellipse: s-maj=31.7km s-min=22.0km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=7.6km az=23.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC IV 14 23 31 48.6–.46 38.92N–.04 142.49E–.05 27 4.2b 83 1-145
NIED IV 14 23 31 00 39.00N 142.40E 26 4.1W **¶16436917**
IDC IV 14 23 31 44.9–.58 38.92N 142.43E 0 4.2,4.1
ISCJB IV 14 23 31 47.1–.36 38.97N–.04 142.55E–.04 27 4.2b,4.1
MOS IV 14 23 31 48.7–1.1 39.03N 142.55E 39 4.3b,4.1
JMA IV 14 23 31 49.0–.10 39.05N 142.44E 34–2 4.3,4.1
NEIC IV 14 23 31 50.6–.71 38.92N 142.53E 41–6 4.8b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ49.00000°,λ-56.00000°. NP2:ϕ_s280.00000°,δ51.00000°,λ-123.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=146.1.
MOS Error ellipse: s-maj=9.9km s-min=6.6km az=82.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=126.0. Recorded [3 JMA] in Iwate.

JMA IV 14 23 53 28.2–.10 38.59N 142.23E 29–2 4.1
¶600588239

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 15 00 03 02.0–.20 37.29N 141.78E 36–3 3.5
¶600588247

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC IV 15 00 50 35.8–2.0 39.20N–.06 142.59E–.08 23–13 4.0b 39 1-81
NIED IV 15 00 50 00 39.30N 142.60E 35 3.9W **¶16505383**
IDC IV 15 00 50 31.7–.87 39.15N 142.66E 0 4.0,3.9b
ISCJB IV 15 00 50 34.6–1.1 39.17N–.05 142.66E–.06 30–7 4.0b,3.9b
JMA IV 15 00 50 36.2–.10 39.26N 142.59E 28–1 4.1,3.9b
NEIC IV 15 00 50 36.8–2.3 39.16N 142.64E 34–15 4.4b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ27.00000°,λ5.00000°. NP2:ϕ_s49.00000°,δ88.00000°,λ117.00000°. $M_0$8.96000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=17.3km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.9km az=41.8.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.9km az=125.0.

ISC IV 15 01 53 13.0–1.7 36.23N–.07 141.7E–.10 10 3.4b 12 1-64
NIED IV 15 01 53 00 36.30N 141.50E 29 3.7W **¶600588346**
JMA IV 15 01 53 16.0–.20 36.26N 141.53E 47–4 3.5
IDC IV 15 01 53 25.4–1.3 34.64N 137.99E 0 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ33.00000°,λ-158.00000°. NP2:ϕ_s140.00000°,δ78.00000°,λ-59.00000°. $M_0$4.02000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=39.8km s-min=24.7km az=88.0.

JMA IV 15 02 08 52.7–.10 35.67N 140.92E 13–1 3.6
NIED IV 15 02 08 00 35.70N 140.90E 8 3.4W **¶600588360**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ43.00000°,λ-120.00000°. NP2:ϕ_s181.00000°,δ54.00000°,λ-65.00000°. $M_0$1.53000×10^{14}

JMA IV 15 02 24 37.4–.10 36.75N 141.31E 35–2 3.5
¶600588374

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 15 02 29 50.3–3.1 36.37N–.04 141.81E–.05 9–19 4.0b 56 1-152
IDC IV 15 02 29 49.0–.63 36.36N 141.67E 0 4.9L,4.1 **¶16505385**
NEIC IV 15 02 29 51.6–2.8 36.33N 141.78E 18–17 4.1b,4.1
JMA IV 15 02 29 53.4–.10 36.41N 141.71E 53–4 3.9,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=16.9km az=98.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=7.2km az=51.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC IV 15 02 44 33.6–2.9 36.71N–.10 141.9E–.10 2–12 14 1-45
IDC IV 15 02 44 35.0–12 37.02N 141.83E 0 3.5,3.5b **¶600588398**
JMA IV 15 02 44 37.0–.20 36.59N 141.80E 31–4 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=232.1km s-min=49.3km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 15 04 27 17.8–.10 38.44N 141.97E 61–1 3.5
¶600588511

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 15 05 08 53.2–2.7 38.16N–.06 142.09E–.08 5–15 3.5b 21 1-58
ISCJB IV 15 05 08 51.7–1.7 38.08N–.04 142.18E–.07 5–9 3.5b **¶600588538**
IDC IV 15 05 08 53.3–2.9 37.81N 142.33E 0 3.5,3.5b
JMA IV 15 05 08 53.4–.20 38.10N 142.14E 17–2 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.5km az=25.2.
IDC Error ellipse: s-maj=70.0km s-min=37.3km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 15 05 53 15.5–1.6 36.73N–.10 140.7E–.10 4–12 3.5b 11 0-57
ISCJB IV 15 05 53 14.9–1.5 36.62N–.08 140.76E–.10 10–5 3.3b **¶17201094**
IDC IV 15 05 53 14.9–2.4 36.75N 140.72E 0 3.5,3.4
JMA IV 15 05 53 16.6 36.69N 140.63E 5–1 3.2,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=8.2km az=136.4.
IDC Error ellipse: s-maj=41.1km s-min=28.9km az=60.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s349.00000°,δ63.00000°,λ-76.00000°. NP2:ϕ_s141.00000°,δ30.00000°,λ-115.00000°. Principal axes: T Plg17.0000°,Azm69.0000°; N Plg12.0000°,Azm163.0000°; P Plg69.0000° ,Azm287.0000°

ISC IV 15 06 16 49.7–2.1 37.69N–.05 141.96E–.07 7–12 3.6b 30 1-89
NIED IV 15 06 16 00 37.70N 142.00E 11 3.8W **¶600588581**
JMA IV 15 06 16 50.3–.20 37.65N 142.03E 26–4 3.8
IDC IV 15 06 16 57.5–3.9 37.54N 141.96E 72–35 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ22.00000°,λ-84.00000°. NP2:ϕ_s324.00000°,δ68.00000°,λ-92.00000°. $M_0$4.91000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.7km s-min=17.6km az=92.0.

JMA IV 15 06 34 25.0–.10 38.20N 142.12E 12–2 3.5
¶600588596

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA IV 15 08 16 07.7–.10 38.20N 141.62E 54–1 3.8
NIED IV 15 08 16 00 38.20N 141.60E 17 3.9W **¶600588665**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ73.00000°,λ-180.00000°. NP2:ϕ_s224.00000°,δ90.00000°,λ-17.00000°. $M_0$6.92000×10^{14}

ISC IV 15 08 24 09.8–1.3 37.00N–.04 140.60E–.04 3–11 3.3b 21 0-61
ISCJB IV 15 08 24 10.4–.60 37.00N–.03 140.78E–.07 14–4 3.4b **¶600588667**
JMA IV 15 08 24 10.8 37.02N 140.69E 6–1 3.4
IDC IV 15 08 24 10.6–1.4 36.74N 140.79E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.6km az=16.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s86.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ_s261.00000°,δ34.00000°,λ-94.00000°. Principal axes: T Plg11.0000°,Azm174.0000°; N Plg2.0000°,Azm264.0000°; P Plg79.0000° ,Azm6.0000°
IDC Error ellipse: s-maj=26.8km s-min=23.9km az=90.0.

ISC IV 15 08 26 59.4–1.4 36.88N–.04 140.67E–.04 3–10 3.7b 31 0-147
IDC IV 15 08 26 58.8–.90 36.85N 140.76E 0 3.9,3.8 **¶17201109**
ISCJB IV 15 08 26 59.8–.62 36.91N–.03 140.75E–.05 17–5 3.7b,3.8
JMA IV 15 08 27 00.4 36.93N 140.66E 9–1 3.8,3.8
NIED IV 15 08 27 00 36.90N 140.70E 5 3.6W,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=18.0km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=16.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ73.00000°,λ-87.00000°. NP2:ϕ_s13.00000°,δ17.00000°,λ-98.00000°. Principal axes: T Plg28.0000°,Azm290.0000°; N Plg2.0000°,Azm21.0000°; P Plg62.0000° ,Azm116.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ38.00000°,λ-115.00000°. NP2:ϕ_s169.00000°,δ56.00000°,λ-71.00000°. $M_0$2.41000×10^{14}

ISC IV 15 09 17 13.6–.72 35.90N–.06 141.57E–.07 26 3.6b 23 1-65

IDC IV 15 09 17 10.4–.76 35.89N 141.57E 0 3.8,3.8L ¶600588709
ISCJB IV 15 09 17 11.5–.53 35.92N–.04 141.65E–.06 26 3.7b,3.8L
JMA IV 15 09 17 14.3–.10 35.94N 141.47E 31–2 3.4,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=14.7km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.5km az=22.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 15 09 39 43.4–.82 35.86N–.07 141.50E–.06 26 3.5b 18 1-65
IDC IV 15 09 39 40.4–.93 35.83N 141.55E 0 3.6,3.6 ¶17201117
ISCJB IV 15 09 39 41.4–.71 35.79N–.05 141.67E–.06 26 3.4b,3.6
JMA IV 15 09 39 44.1–.20 35.92N 141.48E 39–3 2.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.2km s-min=17.6km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=7.1km az=31.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 15 09 53 11.4–.81 35.91N–.05 141.42E–.07 26 3.5b 22 0-65
IDC IV 15 09 53 08.0–.86 35.85N 141.54E 0 3.6,3.6 ¶17201120
ISCJB IV 15 09 53 09.5–.60 35.90N–.04 141.60E–.06 26 3.5b,3.6
JMA IV 15 09 53 11.4–.10 35.93N 141.45E 39–2 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.1km s-min=15.6km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.0km az=23.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 15 10 56 13.8–.10 37.62N 141.59E 43–2 3.5
¶600588768
ISC IV 15 11 14 19.7–.87 35.35N–.06 141.15E–.08 33 3.6b 22 0-59
IDC IV 15 11 14 15.2–1.1 35.31N 141.26E 0 3.7,3.7 ¶17201124
ISCJB IV 15 11 14 17.8–.67 35.35N–.04 141.29E–.07 33 4.4s,3.7b
JMA IV 15 11 14 17.6–.20 35.38N 141.30E 31–2 3.3,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=16.4km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.6km az=174.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 15 11 19 46.6–.85 39.58N–.07 142.1E–.20 46 3.7b 18 4-93
ISCJB IV 15 11 19 44.4–.61 39.56N–.05 142.3E–.10 46 3.8b ¶17201126
IDC IV 15 11 19 48.1–2.0 39.61N 142.07E 63–18 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=6.3km az=14.8.
IDC Error ellipse: s-maj=23.3km s-min=12.1km az=101.0.
JMA IV 15 12 06 55.9–.20 39.28N 142.95E 15–2 3.7
¶600588810
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 15 12 18 30.9–.10 37.69N 141.76E 19–2 3.5
¶600588814
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 15 12 38 59.8–.10 36.68N 141.50E 31–2 3.1
¶600588824
JMA IV 15 12 42 33.5 37.49N 141.15E 24–1 2.5
¶16706999
ISC IV 15 12 43 05.6–1.4 40.33N–.06 142.28E–.10 46–12 3.8b 28 1-72
NIED IV 15 12 43 00 40.30N 142.30E 47 3.7W ¶600588830
ISCJB IV 15 12 43 04.6–.92 40.34N–.05 142.3E–.10 54–7 3.7b
JMA IV 15 12 43 05.3–.10 40.32N 142.32E 36–1 4.1
IDC IV 15 12 43 07.6–2.5 40.34N 142.28E 67–22 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ27.00000°,λ54.00000°. NP2:ϕ_s14.00000°,δ68.00000°,λ107.00000°. $M_0$4.21000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=8.4km az=15.2.
JMA Event type fe.
IDC Error ellipse: s-maj=25.0km s-min=18.7km az=103.0.
ISC IV 15 12 53 06.9–.79 37.48N–.03 141.23E–.05 24–5 4.5b,3.6s 158 0-147
NIED IV 15 12 53 00 37.40N 141.50E 5 4.4W,3.6s ¶16437960
IDC IV 15 12 53 02.9–.53 37.38N 141.28E 0 4.5,4.4
JMA IV 15 12 53 04.2–.10 37.41N 141.49E 19–1 4.7,4.4
ISCJB IV 15 12 53 06.5–.48 37.41N–.03 141.25E–.04 33–4 4.4b,3.7s
BJI IV 15 12 53 08.4 37.62N 140.81E 25 4.8b,4.5b
NEIC IV 15 12 53 08.8–.32 37.47N 141.22E 35 4.6b,4.5b
MOS IV 15 12 53 08.1–.90 37.82N 141.08E 28 4.7b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ52.00000°,λ-170.00000°. NP2:ϕ_s249.00000°,δ82.00000°,λ-39.00000°. $M_0$4.27000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=12.1km az=101.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=21.7.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=5.5km az=139.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=9.1km s-min=5.9km az=90.2.
ISC IV 15 13 44 22.6–.85 37.04N–.04 141.27E–.06 43–7 4.0b,3.5s 75 0-147
NIED IV 15 13 44 00 37.10N 141.20E 50 4.2W,3.5s ¶602557516
MOS IV 15 13 44 20.6–1.9 36.95N 141.44E 48 4.3b,3.5s
ISCJB IV 15 13 44 21.3–.47 37.03N–.03 141.31E–.05 52–4 4.0b,3.6s
NEIC IV 15 13 44 23.3–.70 37.03N 141.14E 48–7 4.1b,3.6s
JMA IV 15 13 44 23.6–.10 37.07N 141.14E 51–1 4.1,3.6s
IDC IV 15 13 44 24.7–1.9 37.04N 141.07E 58–19 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ26.00000°,λ58.00000°. NP2:ϕ_s61.00000°,δ69.00000°,λ104.00000°. $M_0$2.08000×10^{15}
MOS Error ellipse: s-maj=10.2km s-min=6.8km az=89.3.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=3.9km az=24.6.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=105.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=11.6km az=92.0.
ISC IV 15 14 34 23.3–.32 39.15N–.03 142.42E–.03 20–2 5.0b,4.6s 732 1-155
NIED IV 15 14 34 00 39.10N 142.50E 26 4.9W,4.6s ¶16437967
GCMT IV 15 14 34 22.1–.30 39.23N 142.39E 23–1 4.9W,4.6s
NEIC IV 15 14 34 22.1–.12 39.11N 142.29E 10 5.1b,4.6s
BJI IV 15 14 34 22.8 38.99N 142.33E 31 5.0b,4.8b
MOS IV 15 14 34 23.3–1.1 39.20N 142.36E 27 5.2b,4.8s
JMA IV 15 14 34 23.7–.10 39.17N 142.42E 31–1 5.0,4.8s
ISCJB IV 15 14 34 23.9–.51 39.13N–.02 142.33E–.02 31–3 4.9b,4.5s
IDC IV 15 14 34 26.9–1.8 39.12N 142.32E 43–16 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ34.00000°,λ-131.00000°. NP2:ϕ_s189.00000°,δ65.00000°,λ-66.00000°. $M_0$2.39000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c43; s75,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.11±.14 $M_{\theta\theta}$-0.33±.08; $M_{\phi\phi}$2.44±.09; $M_{r\theta}$1.34±.14; $M_{\theta\phi}$-0.52±.06; $M_{\phi r}$1.67±.13; Best double couple: NP1:ϕ_s198.00000°,δ67.00000°,λ-63.00000°. NP2:ϕ_s325.00000°,δ35.00000°,λ-137.00000°. Principal axes: T 2.9890,Plg18.0000°,Azm268.0000°; N 0.3500,Plg25.0000°,Azm7.0000°; P -3.3430,Plg59.0000°,Azm146.0000° $M_0$3.16600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.6km az=137.0. Recorded [3 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=99.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s344.00000°,δ52.00000°,λ-102.00000°. NP2:ϕ_s182.00000°,δ40.00000°,λ-76.00000°. Principal axes: T Plg6.0000°,Azm82.0000°; N Plg9.0000°,Azm351.0000°; P Plg79.0000°,Azm205.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=146.6.
IDC Error ellipse: s-maj=12.6km s-min=9.1km az=103.0.
JMA IV 15 14 54 19.3–.10 38.24N 142.33E 33–3 3.9
NIED IV 15 14 54 00 38.20N 142.30E 32 3.5W ¶600588966
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ17.00000°,λ84.00000°. NP2:ϕ_s25.00000°,δ73.00000°,λ92.00000°. $M_0$2.33000×10^{14}
ISC IV 15 14 58 25.7–1.8 37.37N–.04 141.68E–.07 1–11 3.5b 27 1-77
NIED IV 15 14 58 00 37.40N 141.50E 14 3.5W ¶600588967
ISCJB IV 15 14 58 26.7–1.0 37.34N–.03 141.68E–.07 19–7 3.4b
JMA IV 15 14 58 29.6–.10 37.37N 141.50E 32–2 3.9
IDC IV 15 14 58 41.3–2.5 36.83N 140.67E 91–23 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ45.00000°,λ-58.00000°. NP2:ϕ_s340.00000°,δ53.00000°,λ-118.00000°. $M_0$2.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.4km az=8.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.4km s-min=17.5km az=85.0.
ISC IV 15 16 52 44.9–1.4 38.31N–.06 142.0E–.10 62–11 3.6b 25 1-62
IDC IV 15 16 52 38.4–1.6 38.13N 141.67E 0 3.7,3.6b ¶600589064
ISCJB IV 15 16 52 44.1–.97 38.31N–.05 142.0E–.10 69–7 3.6b,3.6b
JMA IV 15 16 52 46.0–.10 38.33N 141.91E 60–1 3.7,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=21.4km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=6.4km az=20.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 15 17 07 54.1–.66 38.28N–.05 142.11E–.05 63–5 4.3b 130 1-82
NIED IV 15 17 07 00 38.30N 141.90E 74 4.0W ¶16442650
ISCJB IV 15 17 07 53.0–.53 38.34N–.03 142.09E–.05 66–3 4.1b
MOS IV 15 17 07 53.2–.98 38.39N 142.05E 63 4.6b
JMA IV 15 17 07 55.9–.10 38.33N 141.89E 64–1 4.1
NEIC IV 15 17 07 55.6–.47 38.36N 141.98E 67–4 4.4b
IDC IV 15 17 07 55.1–.69 38.30N 141.91E 60–6 4.1,3.9
BJI IV 15 17 07 56.0 38.34N 141.70E 84 4.7b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ46.00000°,λ8.00000°. NP2:ϕ_s241.00000°,δ84.00000°,λ136.00000°. $M_0$1.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=24.6.
MOS Error ellipse: s-maj=9.7km s-min=6.4km az=98.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=117.0.
IDC Error ellipse: s-maj=17.4km s-min=11.3km az=99.0.
ISC IV 15 17 34 34.8–1.6 37.81N–.06 141.99E–.09 30 14 1-58
IDC IV 15 17 34 30.4–2.1 37.62N 142.50E 0 3.4,3.4b ¶17201154
ISCJB IV 15 17 34 35.0–1.3 37.86N–.06 142.0E–.10 30 3.4b,3.4b
JMA IV 15 17 34 34.9–.20 37.81N 142.00E 20–3 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=49.9km s-min=30.2km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.1km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 15 19 27 04.6–.65 40.19N–.04 142.63E–.04 34–2 4.5b,4.1s 279 1-146
NIED IV 15 19 27 00 40.20N 142.60E 32 4.6W,4.1s ¶16440079
BJI IV 15 19 27 00.7 40.05N 143.07E 45 4.9b,4.6b
ISCJB IV 15 19 27 04.2–.44 40.20N–.03 142.60E–.04 42–3 4.5b,4.1s
JMA IV 15 19 27 04.2–.10 40.18N 142.60E 27–2 4.6,4.1s
MOS IV 15 19 27 04.6–.96 40.26N 142.60E 44 4.8b,4.1s
IDC IV 15 19 27 06.8–1.5 40.18N 142.58E 49–14 4.3,4.2
NEIC IV 15 19 27 06.4–.49 40.21N 142.52E 46–4 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ29.00000°,λ68.00000°. NP2:ϕ_s33.00000°,δ64.00000°,λ102.00000°. $M_0$9.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=43.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=101.0.
IDC Error ellipse: s-maj=12.4km s-min=9.5km az=113.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=135.0.
JMA IV 15 20 22 35.0–.10 38.39N 141.88E 57–1 3.5
NIED IV 15 20 22 00 38.40N 141.90E 122 4.4W ¶600589223
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ46.00000°,λ-174.00000°. NP2:ϕ_s346.00000°,δ86.00000°,λ-44.00000°. $M_0$4.92000×10^{15}
JMA IV 15 20 36 29.3 36.91N 140.70E 5–1 3.0
¶600589227
ISC IV 15 21 06 58.3–2.1 36.37N–.07 141.00E–.08 15–11 3.4b 17 0-56
JMA IV 15 21 07 00.8–.10 36.41N 141.03E 45–1 3.4 ¶600589247
IDC IV 15 21 07 05.1–4.0 36.37N 140.94E 74–34 4.1,4.1s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=26.3km az=85.0.
JMA IV 15 21 18 23.5–.30 37.51N 141.90E 15–3 2.8
¶16440088
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 15 22 16 26.7–.20 37.42N 141.83E 31–3 3.5
¶600589303
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 15 22 45 49.2–3.0 39.19N–.08 142.92E–.08 10–19 3.5b 22 1-76
IDC IV 15 22 45 47.8–1.1 39.24N 143.01E 0 3.7,3.7s ¶17201175
JMA IV 15 22 45 48.2–.40 39.19N 143.01E 13–5 3.4,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=20.7km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 15 23 40 10.9–2.2 36.71N–.06 141.71E–.07 16–11 3.4b 22 1-64
NIED IV 15 23 40 00 36.70N 141.50E 47 3.7W ¶17201178
IDC IV 15 23 40 08.2–1.4 36.68N 141.89E 0 3.7L,3.7
ISCJB IV 15 23 40 11.5–1.3 36.65N–.05 141.69E–.07 25–7 3.8s,3.3b
JMA IV 15 23 40 14.4–.10 36.68N 141.50E 38–2 3.6,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ7.00000°,λ-120.00000°. NP2:ϕ_s135.00000°,δ84.00000°,λ-86.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=35.4km s-min=31.8km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.9km az=26.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 16 01 19 29.4–.10 36.69N 141.48E 36–2 3.5
¶600589402
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 16 03 22 39.5–.59 38.21N–.04 142.06E–.05 58–5 4.2b 121 1-151
NIED IV 16 03 22 00 38.20N 141.80E 56 4.1W ¶16505404
MOS IV 16 03 22 37.8–1.2 38.29N 142.05E 54 4.4b
ISCJB IV 16 03 22 37.7–.52 38.22N–.03 142.05E–.05 55–4 4.1b,3.9s
NEIC IV 16 03 22 39.7–.63 38.20N 141.99E 56–6 4.3b,3.9s
JMA IV 16 03 22 40.2–.10 38.25N 141.84E 60–1 4.1,3.9s
IDC IV 16 03 22 40.4–.61 38.22N 141.81E 61–5 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ45.00000°,λ99.00000°. NP2:ϕ_s356.00000°,δ46.00000°,λ81.00000°. $M_0$1.87000×10^{15}
MOS Error ellipse: s-maj=9.4km s-min=6.1km az=78.9.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=27.4.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=11.2km az=108.0.
JMA IV 16 03 32 17.5–.10 37.30N 141.32E 35–1 3.6
¶600589456
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 16 04 11 26.0–2.7 36.78N–.07 142.0E–.10 1–11 3.7b 21 1-57
JMA IV 16 04 11 26.9–.20 36.64N 142.00E 25–3 3.6 ¶17201191
IDC IV 16 04 11 35.5–2.4 37.55N 140.92E 0 3.7b,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=56.3km s-min=29.3km az=71.0.
ISC IV 16 04 19 54.3–.47 37.61N–.04 141.65E–.04 52–4 4.5b,3.6s 231 1-152
NIED IV 16 04 19 00 37.60N 141.60E 56 4.4W,3.6s ¶16440102
BJI IV 16 04 19 48.5 37.46N 141.75E 33 4.8b,4.6b
MOS IV 16 04 19 53.0–1.1 37.68N 141.62E 53 4.7b,4.6b
ISCJB IV 16 04 19 53.7–.45 37.64N–.03 141.54E–.04 58–3 4.5b,3.6s
JMA IV 16 04 19 54.2–.10 37.63N 141.58E 46–2 4.4,3.6s
IDC IV 16 04 19 54.9–.47 37.63N 141.53E 56–4 4.3,4.2
NEIC IV 16 04 19 55.6–.58 37.67N 141.48E 59–5 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ45.00000°,λ79.00000°. NP2:ϕ_s207.00000°,δ46.00000°,λ101.00000°. $M_0$5.06000×10^{15}
MOS Error ellipse: s-maj=7.7km s-min=5.4km az=93.4.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=38.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=14.0km s-min=9.5km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.8km az=139.0. Recorded [3 JMA] in Miyagi.
ISC IV 16 07 20 21.8–.71 38.35N–.06 141.92E–.06 47–5 4.4b,3.3s 149 0-146
MOS IV 16 07 20 19.8–1.1 38.34N 141.98E 46 4.6b,3.3s ¶16445554
ISCJB IV 16 07 20 19.8–.65 38.29N–.04 141.98E–.06 48–4 4.3b,3.3s
BJI IV 16 07 20 20.0 38.40N 141.90E 48 4.8b,4.5b
JMA IV 16 07 20 21.0–.10 38.30N 141.90E 47–2 4.1,4.5b
IDC IV 16 07 20 21.8–.73 38.30N 141.86E 50–6 4.2,4.1
NEIC IV 16 07 20 22.7–.82 38.27N 141.96E 61–6 4.5b,4.1
ISC Event type se.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=93.8.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.7km az=30.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=117.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.0km az=127.0.
JMA IV 16 07 24 38.0 36.94N 140.75E 14–1 3.6
¶600589588
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s152.00000°,δ65.00000°,λ-104.00000°. NP2:ϕ_s2.00000°,δ28.00000°,λ-63.00000°. Principal axes: T Plg19.0000°,Azm252.0000°; N Plg12.0000°,Azm158.0000°; P Plg67.0000°,Azm37.0000°
ISC IV 16 09 34 59.6–.94 36.97N–.05 140.33E–.06 89–7 3.7b 34 0-61
ISCJB IV 16 09 34 58.2–.50 36.97N–.04 140.37E–.06 96–3 3.5b ¶17201204
IDC IV 16 09 34 58.6–1.6 37.00N 140.42E 84–14 3.8,3.4
JMA IV 16 09 34 59.9–.10 36.97N 140.32E 86–1 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.6km az=25.6.
IDC Error ellipse: s-maj=25.0km s-min=10.9km az=85.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s316.00000°,δ68.00000°,λ-45.00000°. NP2: ϕ_s67.00000°,δ49.00000°,λ-150.00000°. Principal axes: T Plg11.0000°,Azm15.0000°; N Plg41.0000°,Azm115.0000°; P Plg47.0000°,Azm273.0000°
JMA IV 16 10 04 34.9 36.99N 140.72E 12–1 2.7
¶600589690
ISC IV 16 10 16 14.1–.85 39.56N–.05 142.65E–.07 29 3.6b 23 1-88
NIED IV 16 10 16 00 39.50N 142.80E 20 3.6W ¶17201207
JMA IV 16 10 16 11.6–.20 39.55N 142.82E 25–2 3.5
ISCJB IV 16 10 16 12.5–.68 39.53N–.06 142.78E–.06 29 3.5b
IDC IV 16 10 16 16.4–3.5 39.48N 142.77E 54–34 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ46.00000°,λ-45.00000°. NP2:ϕ_s231.00000°,δ59.00000°,λ-127.00000°. $M_0$3.04000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.2km az=153.1.
IDC Error ellipse: s-maj=43.1km s-min=19.7km az=114.0.
ISC IV 16 11 32 44.0–.84 36.56N–.04 141.01E–.06 26–6 3.8b 26 0-91
ISCJB IV 16 11 32 42.0–1.1 36.52N–.04 141.10E–.07 24–7 3.7b,3.2s ¶17201214
JMA IV 16 11 32 43.0–.10 36.52N 141.03E 36–1 3.9,3.2s
IDC IV 16 11 32 44.3–.79 36.48N 140.95E 27–5 3.7,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.9km az=24.5.
JMA Event type fe.
IDC Error ellipse: s-maj=21.3km s-min=15.3km az=109.0.
JMA IV 16 11 32 58.5–.20 36.52N 141.02E 34–3 3.7
¶600589745
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 16 11 37 41.5–.84 35.08N–.06 141.28E–.09 27 3.5b,3.0s 16 0-70
IDC IV 16 11 37 37.5–.85 35.10N 141.41E 0 3.8,3.7 ¶17201215
ISCJB IV 16 11 37 39.2–.70 35.03N–.05 141.51E–.08 27 3.6b,3.2s
JMA IV 16 11 37 41.0–.40 35.11N 141.27E 17 2.7,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=27.5km s-min=16.1km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.1km az=173.7.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
JMA IV 16 11 55 35.7 36.97N 140.65E 9–1 2.5
¶600589762
ISC IV 16 12 33 26.5–.00 37.07N–.05 141.83E–.06 19 3.9b 20 1-61
NIED IV 16 12 33 00 37.10N 141.90E 5 3.9W ¶17201223
IDC IV 16 12 33 23.6–1.7 37.05N 142.23E 0 4.0,3.9
ISCJB IV 16 12 33 24.6–.80 37.04N–.05 142.10E–.07 19 3.9b,3.9
JMA IV 16 12 33 28.1–.30 37.13N 141.90E 39 3.7,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ17.00000°,λ-7.00000°. NP2:ϕ_s298.00000°,δ88.00000°,λ-107.00000°. $M_0$6.82000×10^{14}
IDC Error ellipse: s-maj=46.2km s-min=23.9km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.0km az=152.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 16 13 01 19.3–1.9 38.67N–.05 142.26E–.08 26–14 3.6b 27 1-89
NIED IV 16 13 01 00 38.70N 142.20E 47 3.8W ¶600589804
ISCJB IV 16 13 01 19.2–1.2 38.67N–.05 142.30E–.09 38–12 3.6b,3.2s
JMA IV 16 13 01 20.9–.10 38.73N 142.19E 39–2 3.8,3.2s
IDC IV 16 13 01 21.3–2.7 38.63N 142.34E 39–25 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ62.00000°,λ-24.00000°. NP2:ϕ_s250.00000°,δ69.00000°,λ-150.00000°. $M_0$5.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.3km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=16.0km az=99.0.
ISC IV 16 13 10 57.0–1.6 38.13N–.05 141.91E–.10 44–15 3.7b 32 1-89
ISCJB IV 16 13 10 56.9–.84 38.18N–.04 141.85E–.10 59–7 3.8b ¶17201226
IDC IV 16 13 10 58.4–2.4 38.16N 141.85E 57–22 3.6,3.5
JMA IV 16 13 10 58.2–.10 38.18N 141.77E 55–1 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.6km az=17.4.
IDC Error ellipse: s-maj=25.6km s-min=15.8km az=89.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 16 13 15 35.4–.10 37.66N 141.77E 42–2 3.5
¶600589820
ISC IV 16 13 22 52.1–3.3 37.48N–.06 141.5E–.10 2–18 15 1-58
NIED IV 16 13 22 00 37.50N 141.30E 20 3.5W ¶17201227
JMA IV 16 13 22 56.2–.10 37.47N 141.32E 28–1 3.5
IDC IV 16 13 22 56.7–1.6 36.77N 141.37E 0 3.7,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ58.00000°,λ-146.00000°. NP2:ϕ_s177.00000°,δ62.00000°,λ-37.00000°. $M_0$1.85000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=40.0km s-min=26.8km az=150.0.
ISC IV 16 13 36 37.7–.84 39.58N–.04 142.07E–.09 50–7 3.9b 40 0-81
NIED IV 16 13 36 00 39.60N 142.10E 56 3.8W ¶16505407
ISCJB IV 16 13 36 36.6–.62 39.57N–.04 142.15E–.09 57–4 3.8b
JMA IV 16 13 36 38.0–.10 39.64N 142.10E 48–1 3.8
IDC IV 16 13 36 41.9–2.1 39.48N 142.02E 92–19 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ52.00000°,λ-173.00000°. NP2:ϕ_s282.00000°,δ84.00000°,λ-39.00000°. $M_0$5.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.2km az=9.7.
JMA Event type fe.
IDC Error ellipse: s-maj=16.7km s-min=13.3km az=100.0.
ISC IV 16 13 52 21.7–1.2 38.27N–.04 141.96E–.08 41–12 3.9b 40 1-146
NIED IV 16 13 52 00 38.30N 141.80E 65 4.0W ¶600589868
ISCJB IV 16 13 52 21.8–.73 38.31N–.04 141.85E–.08 56–6 3.8b,3.6s
JMA IV 16 13 52 23.0–.10 38.33N 141.75E 57–1 4.1,3.6s
IDC IV 16 13 52 23.7–2.7 38.27N 141.78E 60–25 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ31.00000°,λ100.00000°. NP2:ϕ_s218.00000°,δ59.00000°,λ84.00000°. $M_0$1.26000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.9km az=19.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.4km s-min=14.9km az=94.0.
JMA IV 16 14 04 36.2–.30 36.78N 141.83E 22–4 3.6
NIED IV 16 14 04 00 36.80N 141.80E 29 3.7W **¶600589876**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ27.00000°,λ177.00000°. NP2:ϕ_s338.00000°,δ89.00000°,λ63.00000°. $M_0$4.23000×10^{14}
ISC IV 16 14 08 19.3–.71 36.17N–.05 141.16E–.07 31 3.5b 20 1-78
NIED IV 16 14 08 00 36.10N 141.10E 29 3.6W **¶600589882**
IDC IV 16 14 08 14.7–.80 36.06N 141.36E 0 3.7,3.6
ISCJB IV 16 14 08 17.8–.60 36.18N–.04 141.20E–.06 31 3.4b,3.6
JMA IV 16 14 08 19.5–.10 36.12N 141.08E 42–2 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ42.00000°,λ-66.00000°. NP2:ϕ_s196.00000°,δ52.00000°,λ-111.00000°. $M_0$2.40000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=17.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.1km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 16 14 10 17.7–.10 36.38N 140.96E 34–1 2.6
¶600589884
JMA IV 16 14 42 17.8–.10 38.38N 142.25E 37–2 3.7
¶600589900
JMA IV 16 14 46 58.7 36.88N 140.69E 7 2.8
¶600589905
ISC IV 16 15 14 18.5–1.1 36.87N–.03 140.70E–.05 9–7 3.7b 41 0-147
NIED IV 16 15 14 00 36.90N 140.70E 5 3.7W ¶17201236
ISCJB IV 16 15 14 17.7–.76 36.86N–.03 140.82E–.05 13–4 3.7b
IDC IV 16 15 14 17.1–.57 36.87N 140.71E 0 4.0,3.8
JMA IV 16 15 14 18.6 36.88N 140.69E 7 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ26.00000°,λ-58.00000°. NP2:ϕ_s153.00000°,δ68.00000°,λ-104.00000°. $M_0$4.50000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.5km az=25.0.
IDC Error ellipse: s-maj=17.9km s-min=12.9km az=110.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s158.00000°,δ78.00000°,λ-91.00000°. NP2:ϕ_s343.00000°,δ12.00000°,λ-86.00000°. Principal axes: T Plg33.0000°,Azm249.0000°; N Plg1.0000°,Azm158.0000°; P Plg57.0000°,Azm67.0000°
JMA IV 16 15 21 12.0 36.91N 140.64E 10–1 2.6
¶600589935
ISC IV 16 16 01 09.7–1.5 38.32N–.05 142.0E–.10 57–11 3.7b 34 1-68
ISCJB IV 16 16 01 08.8–.89 38.32N–.04 142.00E–.10 69–6 3.6b ¶17201242
IDC IV 16 16 01 08.6–2.4 38.37N 142.27E 58–19 3.7,3.6
JMA IV 16 16 01 10.8–.10 38.34N 141.88E 63–1 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=5.9km az=15.8.
IDC Error ellipse: s-maj=36.9km s-min=14.9km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 16 16 21 17.6–1.1 38.66N–.04 141.75E–.08 49–8 3.4b 28 0-62
ISCJB IV 16 16 21 16.4–.71 38.67N–.04 141.74E–.09 59–5 3.5b ¶17201244
IDC IV 16 16 21 17.9–2.1 38.71N 141.77E 59–21 3.7,3.7L
JMA IV 16 16 21 18.0–.10 38.68N 141.63E 55–1 3.8,3.7L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.8km az=14.5.
IDC Error ellipse: s-maj=35.1km s-min=14.1km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 16 17 12 10.2–1.7 37.29N–.04 141.63E–.07 16–10 19 1-57
JMA IV 16 17 12 13.3–.20 37.29N 141.59E 41–2 3.1 ¶17201247
IDC IV 16 17 12 22.0–8.1 36.93N 141.01E 97–52 3.4,3.1
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=106.0km s-min=19.4km az=70.0.
IDC IV 16 17 42 01.0–6.6 38.52N 142.83E 0 3.6,3.5
¶17201249
IDC Error ellipse: s-maj=120.7km s-min=36.3km az=94.0.
JMA IV 16 17 50 11.9–.10 39.19N 142.40E 32–1 3.5
¶600590049
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 16 17 50 49.4–.10 38.12N 141.96E 37–2 3.6
¶600590052
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 16 18 03 00.8–.10 35.86N 140.93E 15–1 3.7
NIED IV 16 18 03 00 35.90N 140.90E 8 3.6W ¶600590059
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ37.00000°,λ-47.00000°. NP2:ϕ_s149.00000°,δ64.00000°,λ-117.00000°. $M_0$2.60000×10^{14}
JMA IV 16 18 16 18.5–.20 39.06N 142.64E 26–2 3.5
NIED IV 16 18 16 00 39.10N 142.60E 5 3.4W ¶600590069
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ30.00000°,λ-44.00000°. NP2:ϕ_s89.00000°,δ69.00000°,λ-112.00000°. $M_0$1.66000×10^{14}
JMA IV 16 18 20 41.6 36.84N 140.59E 7–1 2.5
¶600590070
JMA IV 16 19 02 20.6 36.85N 140.65E 6–1 2.6
¶600590104
ISC IV 16 19 44 02.2–1.2 35.47N–.04 140.99E–.10 33 3.3b 16 0-59
IDC IV 16 19 43 59.0–1.3 35.37N 140.98E 0 3.4,3.2 ¶17201254
ISCJB IV 16 19 44 00.6–1.2 35.52N–.05 141.2E–.10 33 3.2b,3.2
JMA IV 16 19 44 01.9–.10 35.54N 141.05E 35–1 2.6,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=20.7km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=6.8km az=165.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 16 20 21 32.0–.57 36.19N–.04 141.09E–.04 43–4 4.9b,4.0s 510 1-148
NIED IV 16 20 21 00 36.20N 141.00E 53 4.7W,4.0s ¶16442380
BJI IV 16 20 21 29.8 36.10N 141.10E 49 4.8b,4.7b
ISCJB IV 16 20 21 32.2–.38 36.14N–.03 140.94E–.03 54–3 4.8b,4.0s
JMA IV 16 20 21 32.5–.10 36.18N 140.97E 52–1 4.7,4.0s
MOS IV 16 20 21 33.8–.76 36.59N 140.91E 50 5.1b,4.0s
NEIC IV 16 20 21 34.4–.53 36.13N 140.89E 62–4 4.8b,4.0s
IDC IV 16 20 21 34.4–1.5 36.16N 140.90E 59–13 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ31.00000°,λ-144.00000°. NP2:ϕ_s339.00000°,δ72.00000°,λ-64.00000°. $M_0$1.30000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.8km az=151.3.
JMA Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=109.1.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=154.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=12.9km s-min=8.0km az=96.0.
ISC IV 16 20 54 09.3–1.0 38.63N–.05 141.96E–.06 48–8 4.2b 104 1-89
NIED IV 16 20 54 00 38.60N 141.90E 53 4.3W ¶16450740
BJI IV 16 20 54 08.3 38.86N 141.48E 27 5.1b,4.5b
MOS IV 16 20 54 08.7–.95 38.69N 141.93E 56 4.6b,4.5b
ISCJB IV 16 20 54 08.9–.51 38.65N–.03 141.88E–.06 57–3 4.2b,3.2s
JMA IV 16 20 54 09.9–.10 38.64N 141.89E 49–1 4.0,3.2s
IDC IV 16 20 54 10.7–2.0 38.63N 141.87E 58–17 4.0,3.9
NEIC IV 16 20 54 11.8–.88 38.85N 141.51E 45–9 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ24.00000°,λ94.00000°. NP2:ϕ_s11.00000°,δ66.00000°,λ88.00000°. $M_0$2.89000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=7.0km az=91.6.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.5km az=27.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=12.7km az=119.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=8.4km az=122.0.
ISC IV 16 21 13 59.6–1.5 38.23N–.04 142.12E–.09 51–15 3.5b 28 1-58
IDC IV 16 21 13 51.3–2.6 38.38N 142.63E 0 3.6,3.6 ¶17201259
ISCJB IV 16 21 14 00.7–.98 38.30N–.04 142.0E–.10 65–7 3.4b,3.6
JMA IV 16 21 14 01.6–.10 38.31N 141.90E 63–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=61.8km s-min=27.9km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.7km az=21.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC IV 16 21 29 37.5–1.6 38.27N–.05 142.0E–.10 47–16 3.4b 29 1-62
IDC IV 16 21 29 36.9–2.9 38.24N 142.07E 43–24 3.7,3.6 ¶17201263
ISCJB IV 16 21 29 37.1–.92 38.29N–.05 142.0E–.10 63–8 3.5b,3.6
JMA IV 16 21 29 39.1–.10 38.32N 141.81E 58–1 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=44.0km s-min=16.1km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.3km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 17 00 11 14.9 36.88N 140.72E 11–1 2.8
¶600590347
JMA IV 17 00 15 02.3 36.86N 140.48E 7–1 2.6
¶600590349
JMA IV 17 01 05 19.4–.10 39.92N 142.41E 39–1 3.8
¶600590372
ISC IV 17 01 09 42.5–3.5 37.68N–.05 141.98E–.08 16–24 3.9b 24 1-61
NIED IV 17 01 09 00 37.70N 142.00E 14 3.4W ¶17201272
IDC IV 17 01 09 43.8–2.4 37.06N 142.10E 0 3.8,3.7b
JMA IV 17 01 09 43.4–.20 37.67N 141.96E 28–3 3.5,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ34.00000°,λ-39.00000°. NP2:ϕ_s296.00000°,δ69.00000°,λ-117.00000°. $M_0$1.62000×10^{14}
IDC Error ellipse: s-maj=63.0km s-min=28.6km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 01 37 50.4–.46 38.62N–.04 142.41E–.03 31–2 4.6b,4.0s 296 1-149
NIED IV 17 01 37 00 38.70N 142.40E 47 4.7W,4.0s ¶16442399
BJI IV 17 01 37 48.9 38.60N 142.42E 36 4.9b,4.7b
MOS IV 17 01 37 50.6–1.1 38.74N 142.30E 39 5.0b,4.7b
NEIC IV 17 01 37 51.5–.65 38.61N 142.22E 36–5 4.7b,4.7b
JMA IV 17 01 37 51.1–.10 38.65N 142.37E 38–1 4.8,4.7b
ISCJB IV 17 01 37 51.5–.46 38.68N–.03 142.31E–.04 48–3 4.6b,3.8s
IDC IV 17 01 37 53.0–1.9 38.64N 142.26E 52–16 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ27.00000°,λ59.00000°. NP2:ϕ_s204.00000°,δ68.00000°,λ104.00000°. $M_0$1.11000×10^{16}
MOS Error ellipse: s-maj=7.7km s-min=5.0km az=95.6.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=149.0. Recorded [3 JMA] in Miyagi.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.9km az=44.2.
IDC Error ellipse: s-maj=13.6km s-min=12.1km az=120.0.
ISC IV 17 02 18 47.4–.66 35.04N–.05 141.10E–.08 48 4.0b 36 0-81
NIED IV 17 02 18 00 35.20N 141.20E 17 3.9W ¶16553304
IDC IV 17 02 18 41.2–.89 35.09N 141.16E 0 4.0,3.9
NEIC IV 17 02 18 42.2–3.2 35.11N 141.20E 8–20 4.3b,3.9
JMA IV 17 02 18 43.7–.10 35.22N 141.22E 30–2 3.6,3.9
ISCJB IV 17 02 18 45.4–.49 35.06N–.04 141.09E–.07 48 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ20.00000°,λ-112.00000°. NP2:ϕ_s155.00000°,δ71.00000°,λ-82.00000°. $M_0$7.66000×10^{14}
NEIC Event type se.
ISCJB Event type se.
JMA IV 17 02 21 26.0–.10 38.27N 141.52E 18–1 3.9
NIED IV 17 02 21 00 38.30N 141.50E 11 3.6W ¶600590406
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ54.00000°,λ137.00000°. NP2:ϕ_s82.00000°,δ56.00000°,λ45.00000°. $M_0$3.14000×10^{14}
JMA IV 17 02 35 24.3–.10 38.42N 142.10E 31–2 3.7
¶600590413
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 17 02 44 52.6 36.95N 140.55E 7–1 2.6
¶600590414
ISC IV 17 03 43 58.3–1.3 36.88N–.04 140.62E–.05 2–9 3.7b 25 0-91
NIED IV 17 03 43 00 36.90N 140.60E 8 3.5W ¶17201278
IDC IV 17 03 43 57.5–.90 36.69N 140.67E 0 3.9,3.6
ISCJB IV 17 03 43 58.5–.75 36.83N–.04 140.67E–.05 15–6 3.6b,3.2s
JMA IV 17 03 43 59.0 36.86N 140.59E 9–1 3.7,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ46.00000°,λ-115.00000°. NP2:ϕ_s18.00000°,δ49.00000°,λ-67.00000°. $M_0$2.26000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=20.8km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.1km az=31.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ73.00000°,λ-82.00000°. NP2:ϕ_s355.00000°,δ19.00000°,λ-116.00000°. Principal axes: T Plg28.0000°,Azm285.0000°; N Plg8.0000°,Azm19.0000°; P Plg61.0000° ,Azm124.0000°
JMA IV 17 03 45 04.3 36.83N 140.62E 5–1 3.5
¶600590445
JMA Event type fe.
ISC IV 17 04 11 20.6–.71 37.37N–.07 141.87E–.08 24 3.5b 18 3-83
IDC IV 17 04 11 17.1–.88 37.35N 142.08E 0 3.8,3.7 ¶17201279
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=17.6km az=115.0.
ISC IV 17 04 13 14.6–.61 35.21N–.04 141.26E–.06 27 3.6b 34 1-148
IDC IV 17 04 13 11.5–.73 35.20N 141.25E 0 3.9,3.8L ¶16553307
ISCJB IV 17 04 13 12.9–.50 35.19N–.04 141.36E–.06 27 3.7b,3.8L
JMA IV 17 04 13 14.5–.10 35.24N 141.27E 27–2 3.3,3.8L
NEIC IV 17 04 13 16.2–.52 35.23N 141.23E 35 4.1b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=16.0km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.1km az=177.3.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.5km az=87.0.
ISC IV 17 04 23 22.6–1.9 36.35N–.08 140.81E–.08 24–12 3.8b 26 0-117
NIED IV 17 04 23 00 36.30N 140.80E 11 3.7W ¶16707161
IDC IV 17 04 23 17.8–.80 36.10N 140.81E 0 3.9,3.7
ISCJB IV 17 04 23 22.2–1.4 36.29N–.08 140.83E–.09 36–9 3.7b,3.7
JMA IV 17 04 23 22.7 36.27N 140.78E 37–1 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ20.00000°,λ31.00000°. NP2:ϕ_s39.00000°,δ80.00000°,λ107.00000°. $M_0$4.27000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=19.4km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=16.1km s-min=7.0km az=138.0.
JMA Event type fe.
ISC IV 17 04 23 57.0–.51 38.37N–.04 142.07E–.05 63–4 4.3b 108 1-146
BJI IV 17 04 23 43.6 39.10N 143.50E 33 4.8b,4.5b ¶17201281
MOS IV 17 04 23 55.3–1.0 38.47N 142.00E 58 4.5b,4.5b
ISCJB IV 17 04 23 55.7–.52 38.38N–.03 142.01E–.05 63–4 4.2b,4.5b
JMA IV 17 04 23 57.6–.10 38.40N 141.91E 59–1 4.3,4.5b
NEIC IV 17 04 23 57.3–.64 38.41N 141.93E 60–6 4.4b,4.5b
IDC IV 17 04 23 57.7–.53 38.41N 141.81E 62–4 4.2,4.1
ISC Event type se.
MOS Error ellipse: s-maj=10.3km s-min=6.7km az=79.1.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.5km az=28.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=130.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=13.8km s-min=10.9km az=127.0.
ISC IV 17 04 38 59.4–.58 35.83N–.03 140.48E–.04 26–3 4.5b,3.7s 213 0-153
NIED IV 17 04 38 00 35.90N 140.50E 50 4.6W,3.7s ¶16442672
IDC IV 17 04 38 54.9–.44 35.75N 140.46E 0 4.4,4.3
BJI IV 17 04 38 58.5 35.76N 140.48E 34 4.9b,4.5b
MOS IV 17 04 38 58.2–1.1 35.85N 140.39E 27 4.7b,4.5b
NEIC IV 17 04 38 59.0–1.6 35.77N 140.37E 22–11 4.5b,4.5b
JMA IV 17 04 38 59.5 35.87N 140.47E 35–1 4.5,4.5b
ISCJB IV 17 04 38 59.0–.50 35.84N–.03 140.40E–.03 31–3 4.4b,3.7s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ40.00000°,λ-49.00000°. NP2:ϕ_s301.00000°,δ61.00000°,λ-118.00000°. $M_0$8.25000×10^{15}
NEIC Event type fe. Felt at Chiba and Tokyo. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s59.00000°,δ63.00000°,λ108.00000°. NP2:ϕ_s203.00000°,δ32.00000°,λ59.00000°. Principal axes: T Plg67.0000°,Azm4.0000°; N Plg16.0000°,Azm231.0000°; P Plg16.0000° ,Azm136.0000°
ISCJB Event type fe.
ISC IV 17 05 42 34.5–1.5 38.54N–.05 142.06E–.10 48–12 3.7b 36 1-82
NIED IV 17 05 42 00 38.60N 141.90E 62 3.9W ¶17201286
ISCJB IV 17 05 42 33.6–.95 38.57N–.04 142.04E–.10 54–7 3.7b
IDC IV 17 05 42 34.6–2.4 38.54N 142.30E 57–19 3.8,3.7
JMA IV 17 05 42 35.7–.10 38.57N 141.89E 49–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ21.00000°,λ50.00000°. NP2:ϕ_s31.00000°,δ74.00000°,λ104.00000°. $M_0$7.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=5.5km az=19.0.
IDC Error ellipse: s-maj=25.8km s-min=13.1km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 17 06 10 07.7–.10 36.58N 141.26E 39–2 2.5
¶600590536
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 06 49 22.3–.55 35.84N–.03 140.45E–.04 24–3 4.5b,3.8s 234 0-148
NIED IV 17 06 49 00 35.90N 140.50E 32 4.6W,3.8s ¶16442678
IDC IV 17 06 49 18.1–.47 35.71N 140.40E 0 4.5,4.4
BJI IV 17 06 49 18.0 35.67N 140.73E 27 4.8b,4.6b
MOS IV 17 06 49 21.3–1.1 35.82N 140.47E 30 4.8b,4.6b
ISCJB IV 17 06 49 22.0–.47 35.82N–.02 140.39E–.03 32–3 4.5b,3.8s
JMA IV 17 06 49 22.8 35.87N 140.46E 35–1 4.6,3.8s
NEIC IV 17 06 49 24.2–.50 35.73N 140.37E 39–4 4.6b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ48.00000°,λ-14.00000°. NP2:ϕ_s313.00000°,δ80.00000°,λ-137.00000°. $M_0$8.39000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=10.8km az=89.0.
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=104.6.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.9km az=152.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s92.00000°,δ74.00000°,λ108.00000°. NP2:ϕ_s222.00000°,δ23.00000°,λ43.00000°. Principal axes: T Plg57.0000°,Azm25.0000°; N Plg17.0000°,Azm267.0000°; P Plg27.0000° ,Azm168.0000°
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=140.0. Felt at Tokyo. Recorded [3 JMA] in Chiba and Ibaraki.
ISC IV 17 07 06 04.4–.85 38.87N–.05 142.02E–.09 44–5 3.9b 36 0-70
NIED IV 17 07 06 00 38.90N 142.00E 26 3.8W ¶17201290
ISCJB IV 17 07 06 03.6–.90 38.88N–.04 142.0E–.10 54–6 3.9b
JMA IV 17 07 06 04.9–.10 38.89N 141.97E 50–1 3.9
IDC IV 17 07 06 06.7–1.1 38.81N 141.97E 69–7 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s274.00000°,δ36.00000°,λ-136.00000°. NP2:ϕ_s145.00000°,δ66.00000°,λ-63.00000°. $M_0$5.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=5.9km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=16.6km az=91.0.
ISC IV 17 07 08 42.4–3.4 36.30N–.06 141.8E–.10 6–18 3.5b 17 1-56
IDC IV 17 07 08 44.0–2.1 36.75N 141.80E 0 3.6,3.6b ¶17201291
JMA IV 17 07 08 43.6–.20 36.28N 141.95E 58 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=48.5km s-min=29.3km az=51.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 07 12 50.8–.57 37.40N–.04 141.38E–.05 50–4 4.6b,3.5s 212 0-147
NIED IV 17 07 12 00 37.40N 141.40E 50 4.4W,3.5s ¶16444279
MOS IV 17 07 12 48.2–1.1 37.51N 141.28E 33 4.7b,3.5s
ISCJB IV 17 07 12 49.9–.39 37.41N–.02 141.36E–.04 56–2 4.5b,3.5s
BJI IV 17 07 12 49.2 37.47N 141.37E 56 4.7b,4.7b
JMA IV 17 07 12 50.4–.10 37.41N 141.41E 47–1 4.3,4.7b
IDC IV 17 07 12 51.2–.63 37.38N 141.33E 53–5 4.3,4.2
NEIC IV 17 07 12 52.2–.47 37.44N 141.29E 60–4 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ15.00000°,λ81.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ92.00000°. $M_0$4.31000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.5km az=26.4.
JMA Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=8.7km az=114.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=142.0.
JMA IV 17 07 18 47.4–.10 39.14N 142.37E 34–1 3.5
¶600590562
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 17 08 47 10.8–1.3 37.61N–.08 141.90E–.10 24 3.3b 13 1-58
IDC IV 17 08 47 07.0–1.4 37.60N 142.05E 0 3.5,3.3b ¶17201297
ISCJB IV 17 08 47 08.7–1.0 37.51N–.06 142.05E–.08 24 3.2b,2.7s
JMA IV 17 08 47 09.3–.20 37.51N 141.99E 23–3 3.3,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=34.3km s-min=28.9km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.9km az=40.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 17 09 53 38.5–.10 35.88N 140.49E 34–2 2.6
¶600590679
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 17 10 32 27.1–1.2 35.69N–.06 140.06E–.07 76–8 22 0-59
IDC IV 17 10 32 16.9–4.2 35.91N 140.82E 0 3.6,3.6 ¶17201306
ISCJB IV 17 10 32 26.0–.75 35.69N–.05 140.07E–.07 82–5 3.3b,3.6
JMA IV 17 10 32 26.8–.20 35.81N 140.11E 65–2 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=99.0km s-min=30.5km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.4km az=147.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 17 10 46 18.9 36.90N 140.71E 9–1 2.6
¶600590705
JMA IV 17 11 09 07.7–.30 35.74N 140.87E 33–2 2.6
¶600590728
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 17 11 49 38.9–2.3 37.37N–.05 141.92E–.09 17–11 3.4b 22 1-57
IDC IV 17 11 49 34.8–2.6 37.41N 142.37E 0 3.3,3.3b ¶17201314
ISCJB IV 17 11 49 39.2–1.7 37.37N–.05 141.91E–.10 18–9 3.2b,3.3b
JMA IV 17 11 49 40.8–.20 37.36N 141.84E 33–3 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=33.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.3km az=21.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 17 12 13 05.4–2.0 39.17N–.05 142.39E–.08 24–13 3.6b 36 1-73
NIED IV 17 12 13 00 39.20N 142.40E 32 3.9W ¶17201315
ISCJB IV 17 12 13 05.2–1.0 39.16N–.04 142.43E–.08 39–9 3.6b,3.3s
JMA IV 17 12 13 05.3–.10 39.17N 142.39E 26–1 4.1,3.3s
IDC IV 17 12 13 08.2–2.2 39.18N 142.40E 49–20 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ39.00000°,λ-146.00000°. NP2:ϕ_s183.00000°,δ69.00000°,λ-56.00000°. $M_0$7.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.5km az=18.6.
JMA Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=13.4km az=111.0.
ISC IV 17 14 10 16.9–.94 36.77N–.03 140.52E–.05 10–6 3.8b 45 0-91
NIED IV 17 14 10 00 36.70N 140.60E 5 3.7W ¶16443570
IDC IV 17 14 10 15.4–.67 36.78N 140.49E 0 4.0,3.8
ISCJB IV 17 14 10 16.7–.48 36.74N–.03 140.64E–.05 20–3 3.8b,3.8
NEIC IV 17 14 10 16.9–1.9 36.79N 140.42E 8–12 4.1b,3.8
JMA IV 17 14 10 17.2 36.75N 140.59E 8–1 4.0,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ42.00000°,λ-62.00000°. NP2:ϕ_s146.00000°,δ54.00000°,λ-113.00000°. $M_0$3.82000×10^{14}
IDC Error ellipse: s-maj=16.9km s-min=11.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.0km az=21.8.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=7.7km az=111.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s154.00000°,δ47.00000°,λ-101.00000°. NP2:ϕ_s349.00000°,δ44.00000°,λ-79.00000°. Principal axes: T Plg2.0000°,Azm251.0000°; N Plg8.0000°,Azm161.0000°; P Plg82.0000° ,Azm355.0000°

IDC IV 17 14 15 59.2–2.7 38.65N 142.64E 0 3.4,3.3b ¶17201327
IDC Error ellipse: s-maj=67.7km s-min=31.8km az=70.0.
ISC IV 17 14 48 33.4–1.1 36.14N–.07 141.17E–.10 26 3.6b 16 2-147
IDC IV 17 14 48 27.9–1.4 36.45N 141.72E 0 3.8,3.8 **¶17201329**
ISC Event type ke.
IDC Error ellipse: s-maj=39.6km s-min=18.3km az=66.0.
ISC IV 17 15 21 16.1–1.2 39.70N–.04 142.08E–.08 45–8 3.1b 26 0-63
ISCJB IV 17 15 21 15.1–.83 39.69N–.03 142.14E–.10 54–6 3.2b **¶17201331**
JMA IV 17 15 21 15.8–.10 39.72N 142.13E 47–1 3.0
IDC IV 17 15 21 18.1–2.6 39.69N 142.12E 76–25 3.2,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.6km az=5.7.
IDC Error ellipse: s-maj=41.4km s-min=17.4km az=97.0.
ISC IV 17 15 38 38.0–1.0 40.56N–.04 141.65E–.09 76–7 3.5b 24 0-64
ISCJB IV 17 15 38 37.0–.69 40.56N–.04 141.7E–.10 83–5 3.4b **¶17201332**
JMA IV 17 15 38 38.0–.10 40.57N 141.67E 76–1 3.2
IDC IV 17 15 38 39.2–1.9 40.57N 141.79E 98–21 3.4,3.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=5.8km az=2.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s16.00000°,δ73.00000°,λ-115.00000°. NP2: ϕ_s254.00000°,δ30.00000°,λ-36.00000°. Principal axes: T Plg24.0000°,Azm125.0000° ; N Plg24.0000°,Azm24.0000°; P Plg55.0000°,Azm255.0000°
IDC Error ellipse: s-maj=29.3km s-min=15.9km az=95.0.
ISC IV 17 15 47 28.7–.34 37.00N–.03 141.31E–.03 20–2 4.9b,4.2s 876 0-148
NIED IV 17 15 47 00 37.10N 141.30E 11 4.7W,4.2s **¶16442686**
BJI IV 17 15 47 25.9 36.90N 141.08E 11 4.8b,4.7b
IDC IV 17 15 47 25.9–.40 37.05N 141.18E 0 4.6,4.6
ISCJB IV 17 15 47 28.9–.46 37.04N–.02 141.22E–.02 29–3 4.8b,4.1s
JMA IV 17 15 47 28.6–.10 37.00N 141.28E 29–1 4.8,4.1s
MOS IV 17 15 47 29.3–.91 37.29N 141.14E 24 5.1b,4.1s
NEIC IV 17 15 47 29.4–.36 37.02N 141.13E 21–2 4.9b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ26.00000°,λ-66.00000°. NP2:ϕ_s202.00000°,δ67.00000°,λ-101.00000°. $M_0$1.11000×10^{16}
IDC Error ellipse: s-maj=12.0km s-min=9.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=164.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=99.4.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=149.0. Recorded [3 JMA] in Fukushima and Ibaraki.
ISC IV 17 15 53 41.9–1.0 35.90N–.06 140.61E–.07 50 3.4b 15 0-60
IDC IV 17 15 53 36.8–1.7 35.87N 140.62E 0 3.5,3.4 **¶17201335**
ISCJB IV 17 15 53 40.5–.58 35.91N–.05 140.61E–.08 50 3.4b,3.4
JMA IV 17 15 53 41.6 35.86N 140.47E 34–1 3.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=21.8km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.2km az=151.5.
JMA Event type fe.
ISC IV 17 16 00 02.8–.45 36.67N–.04 141.60E–.04 23–2 4.7b,4.2s 331 1-155
IDC IV 17 15 59 58.8–.44 36.60N 141.60E 0 4.5,4.4 **¶17201337**
BJI IV 17 15 59 59.7 36.62N 141.32E 5 4.9b,4.7b
NIED IV 17 16 00 00 36.70N 141.70E 17 4.6W,4.7b
ISCJB IV 17 16 00 01.9–.79 36.66N–.03 141.63E–.03 29–5 4.7b,4.1s
JMA IV 17 16 00 01.6–.30 36.67N 141.70E 32–4 4.6,4.1s
NEIC IV 17 16 00 02.4–.29 36.61N 141.61E 22–1 4.7b,4.1s
MOS IV 17 16 00 02.8–1.1 36.67N 141.64E 36 4.9b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=91.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ31.00000°,λ-165.00000°. NP2:ϕ_s188.00000°,δ82.00000°,λ-60.00000°. $M_0$7.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.7km az=43.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=146.0.
MOS Error ellipse: s-maj=7.2km s-min=4.5km az=112.9.
ISC IV 17 16 17 50.2–1.5 35.41N–.05 141.19E–.08 26–10 3.7b 34 0-84
IDC IV 17 16 17 46.6–.93 35.48N 141.14E 0 3.9,3.8 **¶16529599**
ISCJB IV 17 16 17 47.9–1.0 35.41N–.04 141.37E–.08 27–6 3.6b,3.8
NEIC IV 17 16 17 48.9–3.7 35.43N 141.31E 18–24 4.1b,3.8
JMA IV 17 16 17 50.7–.10 35.42N 141.17E 25–2 3.1,3.8
ISC Event type se.
IDC Error ellipse: s-maj=32.7km s-min=16.0km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.8km az=172.3.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.6km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 16 18 30.5–.68 35.44N–.06 141.30E–.08 25 4.1b 38 0-148
NIED IV 17 16 18 00 35.40N 141.10E 29 4.1W **¶16505417**
IDC IV 17 16 18 27.0–.82 35.41N 141.26E 0 4.1,4.0
ISCJB IV 17 16 18 28.4–.49 35.41N–.04 141.40E–.06 25 4.0b,4.0
JMA IV 17 16 18 31.6–.20 35.44N 141.14E 27–2 3.5,4.0
NEIC IV 17 16 18 32.1–.43 35.46N 141.27E 35 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ20.00000°,λ163.00000°. NP2:ϕ_s53.00000°,δ84.00000°,λ71.00000°. $M_0$1.37000×10^{15}
IDC Error ellipse: s-maj=24.7km s-min=17.3km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.7km az=7.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.4km az=84.0.
ISC IV 17 16 47 59.9–.58 37.40N–.04 141.56E–.05 33–2 4.0b,3.2s 60 1-146
ISCJB IV 17 16 47 59.1–.64 37.36N–.03 141.62E–.06 45–5 4.0b,3.2s **¶16529600**
JMA IV 17 16 48 00.6–.10 37.41N 141.53E 40–2 4.4,3.2s
NIED IV 17 16 48 00 37.40N 141.50E 50 4.2W,3.2s
NEIC IV 17 16 48 01.4–.44 37.41N 141.51E 46–4 4.5b,3.2s
IDC IV 17 16 48 01.5–.60 37.41N 141.46E 44–5 4.1L,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.9km az=4.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ30.00000°,λ-114.00000°. NP2:ϕ_s170.00000°,δ63.00000°,λ-76.00000°. $M_0$2.00000×10^{15}
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=116.0.
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=122.0.
ISC IV 17 16 56 44.4–1.1 36.25N–.04 141.1E–.10 31 3.8b 17 1-75
NIED IV 17 16 56 00 36.20N 141.00E 29 3.8W **¶600590904**
IDC IV 17 16 56 37.4–.85 36.74N 141.46E 0 3.8,3.7
ISCJB IV 17 16 56 41.8–1.0 36.27N–.05 141.32E–.09 31 3.6b,3.3s
JMA IV 17 16 56 45.7 36.18N 141.02E 38–1 4.0,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ56.00000°,λ-11.00000°. NP2:ϕ_s345.00000°,δ81.00000°,λ-145.00000°. $M_0$5.96000×10^{14}
IDC Error ellipse: s-maj=23.7km s-min=17.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.4km az=155.7.
JMA Event type fe.
JMA IV 17 16 56 48.2–.10 38.74N 142.23E 38–2 4.1 ¶600590906
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 17 18 08 48.1–.62 35.78N–.03 140.11E–.04 60–5 4.5b 245 0-148
NIED IV 17 18 08 00 35.80N 140.10E 71 4.7W **¶16442693**
BJI IV 17 18 08 42.6 35.60N 140.41E 46 4.8b,4.5b
MOS IV 17 18 08 46.1–1.2 35.82N 140.18E 58 4.9b,4.5b
ISCJB IV 17 18 08 47.8–.31 35.71N–.02 140.09E–.04 76–2 4.4b,4.5b
JMA IV 17 18 08 48.8–.20 35.79N 140.11E 65–2 4.4,4.5b
IDC IV 17 18 08 48.3–1.0 35.68N 140.18E 65–9 4.3,4.1
NEIC IV 17 18 08 48.3–.59 35.70N 140.07E 67–5 4.7b,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ33.00000°,λ39.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ117.00000°. $M_0$1.06000×10^{16}
MOS Error ellipse: s-maj=8.5km s-min=4.9km az=113.9.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.1km az=179.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s17.00000°,δ65.00000°,λ96.00000°. NP2: ϕ_s182.00000°,δ25.00000°,λ77.00000°. Principal axes: T Plg69.0000°,Azm299.0000° ; N Plg6.0000°,Azm194.0000°; P Plg20.0000°,Azm102.0000°
IDC Error ellipse: s-maj=11.1km s-min=6.3km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=5.5km az=113.0. Felt [II] at Yokohama. Also felt at Akiruno, Atsugi and Tokyo. Recorded [3 JMA] in Kanagawa.
ISC IV 17 18 33 40.8–1.1 36.95N–.04 140.70E–.04 9–7 3.9b 50 0-147
NIED IV 17 18 33 00 37.00N 140.80E 8 3.9W **¶602557557**
IDC IV 17 18 33 39.6–.56 36.98N 140.72E 0 4.1,4.0
ISCJB IV 17 18 33 40.7–.56 36.98N–.03 140.86E–.05 19–3 3.9b,2.7s
JMA IV 17 18 33 41.8 37.01N 140.70E 10–1 4.1,2.7s
NEIC IV 17 18 33 45.0–1.3 36.93N 140.73E 39–12 4.3b,2.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ40.00000°,λ-72.00000°. NP2:ϕ_s256.00000°,δ52.00000°,λ-104.00000°. $M_0$7.37000×10^{14}
IDC Error ellipse: s-maj=16.6km s-min=14.2km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.0km az=27.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s103.00000°,δ48.00000°,λ-75.00000°. NP2:ϕ_s262.00000°,δ44.00000°,λ-106.00000°. Principal axes: T Plg2.0000°,Azm183.0000°; N Plg11.0000°,Azm273.0000°; P Plg79.0000° ,Azm83.0000°
NEIC Event type fe. Error ellipse: s-maj=13.9km s-min=10.2km az=102.0. Recorded [3 JMA] in Fukushima.
ISC IV 17 20 20 31.9–1.7 36.55N–.04 141.26E–.05 15–10 4.1b,3.1s 56 1-102
NIED IV 17 20 20 00 36.60N 141.30E 38 4.2W,3.1s **¶600590986**
IDC IV 17 20 20 29.8–.61 36.53N 141.31E 0 4.2,4.0
ISCJB IV 17 20 20 31.0–.87 36.53N–.03 141.49E–.05 26–6 4.0b,3.2s
MOS IV 17 20 20 32.0–1.9 36.63N 141.34E 29 4.5b,3.2s
JMA IV 17 20 20 34.3–.10 36.57N 141.28E 42–2 4.2,3.2s
NEIC IV 17 20 20 34.5–.62 36.54N 141.20E 35 4.5b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ13.00000°,λ172.00000°. NP2:ϕ_s275.00000°,δ88.00000°,λ77.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=12.9km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=16.9.
MOS Error ellipse: s-maj=11.3km s-min=7.9km az=86.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=10.5km az=128.0.
ISC IV 17 22 02 53.0–1.2 36.78N–.04 141.01E–.09 49–9 3.5b 23 0-60
NIED IV 17 22 02 00 36.80N 141.00E 47 3.4W **¶17201362**
IDC IV 17 22 02 43.9–2.0 36.99N 141.66E 0 3.7,3.6
ISCJB IV 17 22 02 51.8–.82 36.76N–.04 141.0E–.10 57–5 3.4b,3.6
JMA IV 17 22 02 53.5–.10 36.79N 140.95E 51–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ50.00000°,λ154.00000°. NP2:ϕ_s18.00000°,δ70.00000°,λ43.00000°. $M_0$1.59000×10^{14}
IDC Error ellipse: s-maj=54.0km s-min=20.9km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.5km az=4.6.
JMA Event type fe.
ISC IV 17 22 12 39.7–.91 36.96N–.05 141.95E–.07 19 3.3b 21 1-64
IDC IV 17 22 12 36.8–1.1 36.79N 142.13E 0 3.6,3.6L **¶17201364**
ISCJB IV 17 22 12 38.4–.81 36.88N–.05 142.00E–.07 19 3.3b,3.6L
JMA IV 17 22 12 40.7–.30 36.90N 141.80E 25–3 3.3,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=20.8km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.7km az=152.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 22 59 48.3–1.7 36.74N–.09 141.9E–.10 19 3.8b 19 1-75
NIED IV 17 22 59 00 36.70N 141.90E 35 3.8W **¶17201368**
IDC IV 17 22 59 42.8–5.1 36.55N 142.23E 0 3.9b,3.8
JMA IV 17 22 59 47.5–.30 36.72N 141.87E 19–3 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ22.00000°,λ106.00000°. NP2:ϕ_s15.00000°,δ69.00000°,λ84.00000°. $M_0$5.56000×10^{14}
IDC Error ellipse: s-maj=98.7km s-min=58.7km az=158.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 00 03 05.2–1.9 38.35N–.05 142.15E–.07 10–11 3.7b 24 1-76
NIED IV 18 00 03 00 38.40N 142.20E 20 3.9W **¶17201373**
ISCJB IV 18 00 03 05.5–1.3 38.37N–.05 142.24E–.07 25–8 3.8b,2.7s
JMA IV 18 00 03 06.5–.10 38.43N 142.23E 27–2 4.2,2.7s
IDC IV 18 00 03 09.9–2.9 38.33N 142.26E 45–28 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ32.00000°,λ-28.00000°. NP2:ϕ_s293.00000°,δ76.00000°,λ-119.00000°. $M_0$8.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.6km az=29.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.9km s-min=15.2km az=105.0.
ISC IV 18 00 19 19.0–1.8 38.85N–.05 142.17E–.10 10 15 0-44
ISCJB IV 18 00 19 18.0–1.3 38.78N–.05 142.22E–.09 10 3.5b **¶17201374**
JMA IV 18 00 19 21.1–.10 38.85N 142.05E 46–1 3.6
IDC IV 18 00 19 28.4–4.2 39.40N 140.84E 32–60 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.0km az=15.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=121.1km s-min=26.4km az=120.0.
JMA IV 18 01 11 15.3–.10 37.50N 141.75E 38–3 3.8
NIED IV 18 01 11 00 37.50N 141.70E 41 3.6W **¶600591154**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ34.00000°,λ-3.00000°. NP2:ϕ_s249.00000°,δ88.00000°,λ-124.00000°. $M_0$2.80000×10^{14}
ISC IV 18 02 28 37.4–1.8 37.61N–.06 141.7E–.10 44–15 3.6b 27 1-90
NIED IV 18 02 28 00 37.60N 141.60E 50 3.7W **¶17201384**
ISCJB IV 18 02 28 37.4–.99 37.61N–.06 141.6E–.10 61–7 3.7b
JMA IV 18 02 28 38.1–.10 37.59N 141.64E 49–2 3.5
IDC IV 18 02 28 40.8–3.7 37.58N 141.55E 76–34 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ21.00000°,λ57.00000°. NP2:ϕ_s34.00000°,δ72.00000°,λ102.00000°. $M_0$3.68000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.8km s-min=8.1km az=19.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.7km s-min=23.4km az=106.0.
JMA IV 18 03 06 31.5–.10 35.91N 140.80E 44–1 2.6 ¶600591205
ISC IV 18 03 13 48.9–1.4 39.25N–.05 142.2E–.10 42–12 3.8b,3.3s 27 0-73
NIED IV 18 03 13 00 39.30N 142.20E 50 4.1W,3.3s **¶17201386**
ISCJB IV 18 03 13 48.1–.90 39.25N–.04 142.3E–.10 51–6 3.6b,3.4s
JMA IV 18 03 13 48.8–.10 39.28N 142.24E 42–1 3.6,3.4s
IDC IV 18 03 13 52.7–2.3 39.24N 142.16E 80–20 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ15.00000°,λ75.00000°. NP2:ϕ_s22.00000°,δ75.00000°,λ94.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.9km s-min=5.7km az=16.9.
JMA Event type fe.
IDC Error ellipse: s-maj=23.0km s-min=13.8km az=105.0.
JMA IV 18 03 39 45.3–.10 38.93N 142.60E 29–2 3.6
NIED IV 18 03 39 00 38.90N 142.60E 5 3.7W **¶600591229**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ21.00000°,λ-127.00000°. NP2:ϕ_s136.00000°,δ73.00000°,λ-77.00000°. $M_0$3.64000×10^{14}
JMA IV 18 04 05 56.3 36.07N 140.91E 30–1 3.1 ¶17201389
ISC IV 18 04 20 50.9–1.5 38.31N–.05 141.9E–.10 52–12 3.6b 26 0-58
NIED IV 18 04 20 00 38.30N 141.80E 11 3.8W **¶17201390**
IDC IV 18 04 20 40.2–2.7 38.56N 142.82E 0 3.8,3.8s
ISCJB IV 18 04 20 50.8–.96 38.30N–.04 141.82E–.10 63–7 3.5b,3.8s
JMA IV 18 04 20 51.7–.10 38.30N 141.79E 58–1 3.6,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ59.00000°,λ-164.00000°. NP2:ϕ_s121.00000°,δ76.00000°,λ-32.00000°. $M_0$5.25000×10^{14}
IDC Error ellipse: s-maj=68.4km s-min=31.9km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.0km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 18 05 11 42.7–.89 36.72N–.04 140.57E–.07 11–6 3.4b 22 0-91

NIED IV 18 05 11 00 36.70N 140.60E 5 3.7W ¶600591283
IDC IV 18 05 11 41.0–.86 36.70N 140.59E 0 3.7,3.6
ISCJB IV 18 05 11 41.9–.77 36.67N–.04 140.72E–.08 18–4 3.5b,3.6
JMA IV 18 05 11 43.2 36.73N 140.61E 7–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ37.00000°,λ-108.00000°. NP2:ϕ_s189.00000°,δ56.00000°,λ-77.00000°. $M_0$4.21000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=14.2km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.0km az=27.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s182.00000°,δ51.00000°,λ-89.00000°. NP2:ϕ_s0.00000°,δ39.00000°,λ-91.00000°. Principal axes: T Plg6.0000°,Azm271.0000°; N Plg1.0000°,Azm1.0000°; P Plg84.0000°,Azm100.0000°
JMA IV 18 05 23 58.4 36.50N 140.78E 11–1 2.5 ¶600591289
ISC IV 18 06 36 35.1–2.2 35.58N–.05 141.7E–.10 28–14 17 1-56
IDC IV 18 06 36 32.9–2.5 35.35N 141.85E 0 3.4,3.3 ¶17201397
ISCJB IV 18 06 36 35.0–1.3 35.59N–.05 141.7E–.10 44–17 3.3b,3.3
JMA IV 18 06 36 35.9–.20 35.64N 141.63E 48–4 2.9,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=27.7km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.9km az=174.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 18 07 21 08.7–1.3 36.42N–.04 141.16E–.05 28–9 4.3b,3.5s 100 1-152
NIED IV 18 07 21 00 36.40N 141.10E 32 4.1W,3.5s ¶16447744
MOS IV 18 07 21 05.6–1.3 36.38N 141.31E 24 4.6b,3.5s
ISCJB IV 18 07 21 08.2–.58 36.41N–.03 141.18E–.05 40–5 4.2b,3.4s
JMA IV 18 07 21 09.0–.10 36.43N 141.10E 46–2 4.1,3.4s
NEIC IV 18 07 21 10.5–.78 36.37N 141.19E 45–7 4.4b,3.4s
IDC IV 18 07 21 11.5–1.7 36.39N 141.08E 54–16 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ21.00000°,λ-39.00000°. NP2:ϕ_s230.00000°,δ77.00000°,λ-106.00000°. $M_0$1.56000×10^{15}
MOS Error ellipse: s-maj=10.2km s-min=7.3km az=106.7.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=12.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=103.0.
IDC Error ellipse: s-maj=13.5km s-min=8.8km az=75.0.
ISC IV 18 08 01 58.7–1.9 37.19N–.04 141.32E–.05 16–11 4.0b 52 0-147
NIED IV 18 08 01 00 37.20N 141.20E 26 3.9W ¶601626069
IDC IV 18 08 01 56.2–.74 37.18N 141.31E 0 4.0,3.9
ISCJB IV 18 08 01 58.0–.85 37.18N–.03 141.36E–.05 24–5 3.9b,2.8s
NEIC IV 18 08 01 60.0–2.0 37.18N 141.33E 24–15 4.3b,2.8s
JMA IV 18 08 01 59.7–.10 37.17N 141.24E 29–1 4.4,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ49.00000°,λ-41.00000°. NP2:ϕ_s241.00000°,δ60.00000°,λ-131.00000°. $M_0$8.72000×10^{14}
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.3km az=16.5.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=6.0km az=121.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 18 08 02 17.9 36.68N 140.53E 7–1 3.8
NIED IV 18 08 02 00 36.70N 140.50E 32 3.8W ¶602557564
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ43.00000°,λ-25.00000°. NP2:ϕ_s237.00000°,δ73.00000°,λ-130.00000°. $M_0$5.62000×10^{14}
ISC IV 18 08 44 36.9–.99 36.95N–.03 140.64E–.04 11–6 4.0b,3.1s 52 0-147
NIED IV 18 08 44 00 36.90N 140.60E 5 3.9W,3.1s ¶16631138
IDC IV 18 08 44 35.1–.60 36.99N 140.56E 0 4.1,4.0
ISCJB IV 18 08 44 36.5–.46 36.96N–.03 140.69E–.04 20–3 4.0b,3.1s
JMA IV 18 08 44 36.6 36.95N 140.64E 7–1 4.1,3.1s
NEIC IV 18 08 44 40.8–.84 36.99N 140.52E 39–8 4.2b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ25.00000°,λ-105.00000°. NP2:ϕ_s45.00000°,δ65.00000°,λ-83.00000°. $M_0$7.87000×10^{14}
IDC Error ellipse: s-maj=15.3km s-min=11.3km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=22.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s57.00000°,δ75.00000°,λ-82.00000°. NP2:ϕ_s209.00000°,δ17.00000°,λ-117.00000°. Principal axes: T Plg30.0000°,Azm141.0000°; N Plg7.0000°,Azm235.0000°; P Plg59.0000°,Azm338.0000°
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=104.0.
ISC IV 18 09 15 11.5–1.2 35.7N–.10 140.7E–.20 45 3.5b 7 2-56
ISCJB IV 18 09 15 09.3–1.1 35.7N–.10 140.8E–.20 45 3.6b ¶17201401
IDC IV 18 09 15 11.3–3.9 35.69N 140.70E 40–35 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=14.2km az=157.1.
IDC Error ellipse: s-maj=45.0km s-min=21.6km az=72.0.
ISC IV 18 09 18 44.1–1.0 35.92N–.05 141.09E–.09 31 3.5b 15 0-60
IDC IV 18 09 18 39.1–1.1 35.99N 141.36E 0 3.8,3.8s ¶17201402
ISCJB IV 18 09 18 43.4–.86 35.90N–.06 141.09E–.09 31 3.8s,3.6b
JMA IV 18 09 18 45.5–.10 35.85N 140.90E 34–1 2.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=23.3km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.7km az=153.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 18 10 12 56.3 36.90N 140.66E 7 2.6 ¶600591516
ISC IV 18 10 56 04.5–.95 38.51N–.05 141.96E–.06 46–8 4.3b,3.4s 100 0-146
NIED IV 18 10 56 00 38.50N 141.80E 53 4.2W,3.4s ¶16450752
ISCJB IV 18 10 56 04.0–.54 38.54N–.04 141.89E–.06 55–3 4.3b,3.2s
NEIC IV 18 10 56 04.0–.52 38.55N 141.95E 35 4.6b,3.2s
MOS IV 18 10 56 04.1–.93 38.59N 141.83E 53 4.5b,3.2s
BJI IV 18 10 56 05.0 38.50N 141.90E 64 4.8b,4.6b
IDC IV 18 10 56 05.7–1.6 38.51N 141.82E 53–14 4.1,4.1
JMA IV 18 10 56 05.3–.10 38.52N 141.84E 48–1 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ23.00000°,λ69.00000°. NP2:ϕ_s18.00000°,δ69.00000°,λ99.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.5km az=31.7.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=131.0.
MOS Error ellipse: s-maj=8.8km s-min=6.1km az=94.8.
IDC Error ellipse: s-maj=15.9km s-min=9.1km az=105.0.
JMA Event type fe.
ISC IV 18 13 03 20.0–.42 40.18N–.04 142.45E–.05 39–2 4.7b,4.6s 285 1-116
NIED IV 18 13 03 00 40.20N 142.40E 38 4.6W,4.6s ¶602597380
IDC IV 18 13 03 15.1–.76 40.21N 142.39E 0 4.5,4.4
MOS IV 18 13 03 20.7–.97 40.35N 142.29E 46 5.1b,4.4
JMA IV 18 13 03 21.0–.10 40.17N 142.38E 37–1 4.6,4.4
ISCJB IV 18 13 03 21.4–.43 40.27N–.03 142.24E–.05 54–3 4.8b,4.6s
NEIC IV 18 13 03 23.2–1.2 40.34N 142.14E 59–10 4.1b,4.6s
BJI IV 18 13 03 24.3 40.21N 141.88E 76 4.9b,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ20.00000°,λ65.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ99.00000°. $M_0$8.10000×10^{15}
IDC Error ellipse: s-maj=19.6km s-min=12.9km az=135.0.
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=103.2.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.2km az=32.1.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=9.1km az=138.0.
ISC IV 18 14 19 24.9–1.6 38.27N–.05 142.0E–.10 55–12 3.4b 33 1-58
ISCJB IV 18 14 19 24.5–.88 38.28N–.04 141.95E–.09 68–6 3.5b ¶17201415
JMA IV 18 14 19 25.5–.10 38.32N 141.90E 64–1 3.9
IDC IV 18 14 19 25.2–2.8 38.31N 142.14E 66–23 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.5km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.7km s-min=19.9km az=83.0.
JMA IV 18 14 58 12.6 36.88N 140.81E 8–1 3.5 ¶600591686
JMA Event type fe.

ISC IV 18 15 43 45.1–1.9 35.42N–.05 140.84E–.06 2–12 3.5b 29 0-65
ISCJB IV 18 15 43 45.4–.92 35.42N–.03 141.07E–.07 19–6 3.5b ¶17201423
JMA IV 18 15 43 47.1–.10 35.48N 140.86E 24–1 3.8
IDC IV 18 15 43 49.0–5.7 35.29N 141.07E 33–43 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.2km az=4.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.9km s-min=15.8km az=85.0.
ISC IV 18 16 20 19.5–1.4 37.43N–.04 141.32E–.08 31–8 3.8b 32 0-74
ISCJB IV 18 16 20 18.9–.81 37.40N–.03 141.34E–.09 41–7 3.7b,3.2s ¶16505426
JMA IV 18 16 20 20.1–.10 37.42N 141.29E 33–1 3.9,3.2s
IDC IV 18 16 20 22.8–2.4 37.33N 141.23E 63–24 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.2km az=10.4.
JMA Event type fe.
IDC Error ellipse: s-maj=25.6km s-min=14.3km az=92.0.
ISC IV 18 16 41 14.1–.88 35.71N–.05 141.82E–.07 22 3.5b 23 1-65
IDC IV 18 16 41 10.9–.98 35.68N 141.84E 0 3.7,3.5 ¶17201426
ISCJB IV 18 16 41 12.2–.68 35.71N–.04 141.91E–.07 22 3.5b,3.5
JMA IV 18 16 41 13.4–.20 35.81N 141.84E 25–3 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=17.5km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.5km az=179.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 17 29 01.2–1.8 36.94N–.04 141.33E–.08 28–12 3.7b 28 0-61
IDC IV 18 17 28 55.8–2.0 37.05N 141.69E 0 3.8,3.8 ¶17201432
NIED IV 18 17 29 00 36.90N 141.20E 47 3.8W,3.8
JMA IV 18 17 29 03.2–.10 36.93N 141.22E 45–1 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=19.7km az=68.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ11.00000°,λ-179.00000°. NP2:ϕ_s227.00000°,δ90.00000°,λ-79.00000°. $M_0$6.26000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 18 17 54 15.4–1.8 36.30N–.04 141.43E–.06 6–10 3.9b 39 1-147
NIED IV 18 17 54 00 36.30N 141.30E 26 4.2W ¶16587533
IDC IV 18 17 54 14.2–.72 36.24N 141.49E 0 3.9,3.8
ISCJB IV 18 17 54 16.2–.88 36.32N–.03 141.45E–.05 22–5 3.9b,2.9s
JMA IV 18 17 54 18.4–.10 36.31N 141.29E 47–2 3.8,2.9s
NEIC IV 18 17 54 18.6–3.1 36.29N 141.49E 29–22 4.7b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ22.00000°,λ-43.00000°. NP2:ϕ_s228.00000°,δ75.00000°,λ-107.00000°. $M_0$1.91000×10^{15}
IDC Error ellipse: s-maj=18.8km s-min=15.8km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.1km az=5.1.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.9km az=107.0.
ISC IV 18 18 02 37.6–.60 39.49N–.04 142.83E–.04 27–3 4.9b,4.4s 320 1-145
NIED IV 18 18 02 00 39.40N 142.90E 14 4.7W,4.4s ¶16445783
IDC IV 18 18 02 33.5–.50 39.42N 142.74E 0 4.7,4.6
JMA IV 18 18 02 34.7–.10 39.44N 142.89E 23–2 4.8,4.6
MOS IV 18 18 02 34.8–1.2 39.51N 142.87E 19 5.1b,4.1s
ISCJB IV 18 18 02 35.2–.77 39.50N–.03 142.85E–.04 19–4 4.8b,4.3s
BJI IV 18 18 02 38.1 39.49N 142.74E 50 5.0b,4.8b
NEIC IV 18 18 02 40.1–.70 39.54N 142.74E 43–6 4.8b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ22.00000°,λ-90.00000°. NP2:ϕ_s18.00000°,δ68.00000°,λ-90.00000°. $M_0$1.14000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=11.8km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=103.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.4km az=36.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.7km az=132.0.
ISC IV 18 18 26 34.6–1.3 37.41N–.04 141.94E–.08 24 3.6b 25 1-57
IDC IV 18 18 26 29.4–2.1 37.45N 142.37E 0 3.8,3.8 ¶17201438
ISCJB IV 18 18 26 33.0–.80 37.38N–.04 142.02E–.06 24 3.7b,3.8
JMA IV 18 18 26 35.2–.20 37.37N 141.92E 37–4 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=48.4km s-min=24.6km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.3km az=8.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 18 30 42.9–1.1 36.82N–.03 140.52E–.04 10–9 3.4b 20 0-57
IDC IV 18 18 30 41.6–1.8 36.81N 140.51E 0 3.5,3.4 ¶17201439
ISCJB IV 18 18 30 42.5–.67 36.81N–.04 140.62E–.06 19–6 3.3b,3.4
JMA IV 18 18 30 43.0 36.83N 140.54E 7–1 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=17.9km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.1km az=31.5.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s340.00000°,δ53.00000°,λ-85.00000°. NP2:ϕ_s153.00000°,δ37.00000°,λ-96.00000°. Principal axes: T Plg8.0000°,Azm67.0000°; N Plg4.0000°,Azm158.0000°; P Plg81.0000°,Azm272.0000°
JMA IV 18 18 45 14.7–.20 39.46N 142.85E 24–2 3.7 ¶16505428
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 18 19 20 10.0–.10 39.18N 142.24E 49–1 3.6 ¶600591860
JMA IV 18 19 38 08.6 36.96N 140.62E 8 3.1 ¶600591877
ISC IV 18 20 21 52.6–1.1 37.22N–.06 141.99E–.07 19 3.6b 16 1-57
NIED IV 18 20 21 00 37.30N 142.00E 29 3.5W ¶17201443
IDC IV 18 20 21 49.5–1.5 37.21N 142.32E 0 3.7,3.6
ISCJB IV 18 20 21 51.2–.92 37.26N–.07 142.15E–.07 19 3.5b,3.6
JMA IV 18 20 21 52.7–.30 37.29N 142.00E 16–3 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ20.00000°,λ47.00000°. NP2:ϕ_s337.00000°,δ75.00000°,λ104.00000°. $M_0$2.13000×10^{14}
IDC Error ellipse: s-maj=37.1km s-min=27.2km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.0km az=17.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 21 16 45.2–.46 36.18N–.04 141.62E–.05 26 4.2b,2.9s 98 1-147
NIED IV 18 21 16 00 36.30N 141.70E 26 4.1W,2.9s ¶16505430
IDC IV 18 21 16 41.4–.60 36.11N 141.61E 0 4.2L,4.1
ISCJB IV 18 21 16 43.7–.28 36.14N–.03 141.66E–.04 26 4.3b,3.0s
JMA IV 18 21 16 44.4–.20 36.27N 141.66E 49–5 4.0,3.0s
NEIC IV 18 21 16 48.4–.74 36.10N 141.49E 49–7 4.6b,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ31.00000°,λ-171.00000°. NP2:ϕ_s156.00000°,δ85.00000°,λ-59.00000°. $M_0$1.81000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=13.8km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.1km az=142.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=5.4km az=93.0.
ISC IV 18 21 33 50.4–.40 36.67N–.03 141.42E–.03 26–2 4.7b,4.1s 357 1-155
NIED IV 18 21 33 00 36.70N 141.50E 32 4.6W,4.1s ¶17201446
BJI IV 18 21 33 46.2 36.35N 141.51E 18 4.8b,4.7b
MOS IV 18 21 33 47.7–1.2 36.74N 141.48E 18 4.9b,4.7b
ISCJB IV 18 21 33 49.8–.71 36.60N–.02 141.45E–.03 33–4 4.7b,4.1s
NEIC IV 18 21 33 49.8–.54 36.64N 141.40E 22–3 4.8b,4.1s
IDC IV 18 21 33 51.7–.67 36.67N 141.45E 37–5 4.4,4.3
JMA IV 18 21 33 51.0–.10 36.71N 141.47E 37–3 4.8,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ10.00000°,λ-149.00000°. NP2:ϕ_s194.00000°,δ85.00000°,λ-81.00000°. $M_0$9.22000×10^{15}
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=96.3.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.4km az=154.6.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=143.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=12.1km s-min=10.4km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 18 22 08 44.2–.10 36.71N 141.47E 34–2 2.6 ¶600591974
JMA IV 18 22 26 24.8 36.91N 140.65E 6–1 2.9

¶600591989
ISC IV 19 00 06 54.8–.58 37.74N–.04 141.64E–.07 59–4 3.9b 48 1-146
NIED IV 19 00 06 00 37.80N 141.60E 62 3.9W ¶16505433
ISCJB IV 19 00 06 53.5–.77 37.75N–.04 141.67E–.09 62–6 3.8b
JMA IV 19 00 06 54.5 37.76N 141.64E 54–1 3.9
IDC IV 19 00 06 55.0–.52 37.67N 141.80E 63–4 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ45.00000°,λ81.00000°. NP2:ϕ_s8.00000°,δ46.00000°,λ99.00000°. $M_0$8.26000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=5.8km az=11.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.6km s-min=8.5km az=134.0.
ISC IV 19 00 46 55.2–.81 36.08N–.04 140.03E–.05 72–6 3.9b 42 0-83
NIED IV 19 00 46 00 36.10N 140.00E 68 3.7W ¶600592128
ISCJB IV 19 00 46 54.4–.46 36.08N–.03 140.04E–.06 80–3 3.8b
JMA IV 19 00 46 55.8–.10 36.09N 140.01E 67–1 3.6
IDC IV 19 00 46 57.0–1.8 36.01N 139.86E 88–14 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ94.00000°. NP2:ϕ_s358.00000°,δ70.00000°,λ89.00000°. $M_0$4.31000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.3km az=4.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s358.00000°,δ62.00000°,λ83.00000°. NP2: ϕ_s192.00000°,δ28.00000°,λ102.00000°. Principal axes: T Plg72.0000°,Azm253.0000° ; N Plg6.0000°,Azm1.0000°; P Plg17.0000°,Azm93.0000°
IDC Error ellipse: s-maj=28.0km s-min=7.9km az=65.0.
ISC IV 19 00 59 59.4–2.4 38.88N–.07 142.79E–.08 3–14 3.8b 22 1-63
JMA IV 19 01 00 00.4–.20 38.95N 142.84E 13–2 3.6 ¶17201457
NIED IV 19 01 00 00 38.90N 142.80E 5 3.8W
IDC IV 19 01 00 08.2–4.4 38.79N 142.87E 74–41 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s128.00000°,δ34.00000°,λ-78.00000°. NP2:ϕ_s293.00000°,δ57.00000°,λ-98.00000°. $M_0$6.66000×10^{14}
IDC Error ellipse: s-maj=34.4km s-min=20.3km az=101.0.
ISC IV 19 02 12 21.9–3.2 36.79N–.08 141.9E–.10 9–15 22 1-45
IDC IV 19 02 12 13.7–8.2 35.98N 142.53E 0 3.5,3.5b ¶17201461
JMA IV 19 02 12 20.8–.30 36.64N 142.00E 16–4 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=188.3km s-min=55.9km az=170.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 02 19 48.6–.10 38.03N 141.88E 49–1 3.7
¶600592208
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 02 21 57.3–.10 38.75N 142.19E 37–2 3.7
¶600592211
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 19 02 26 52.0–.66 39.12N–.05 142.2E–.10 38–3 3.6b 34 0-88
NIED IV 19 02 26 00 39.20N 142.30E 47 3.9W ¶17201462
ISCJB IV 19 02 26 51.6–.90 39.15N–.04 142.3E–.10 48–7 3.5b
JMA IV 19 02 26 51.1–.10 39.16N 142.34E 37–1 3.9
IDC IV 19 02 26 51.8–.69 39.02N 142.23E 38–6 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ22.00000°,λ-147.00000°. NP2:ϕ_s209.00000°,δ78.00000°,λ-71.00000°. $M_0$9.17000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=6.4km az=14.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=16.2km az=103.0.
ISC IV 19 03 02 51.9–.85 38.15N–.04 141.77E–.07 43–6 3.6b 42 0-89
NIED IV 19 03 02 00 38.20N 141.70E 56 4.0W ¶16505436
ISCJB IV 19 03 02 51.2–.76 38.15N–.04 141.73E–.09 53–6 3.6b
JMA IV 19 03 02 51.9–.10 38.17N 141.71E 50–1 3.7
IDC IV 19 03 02 53.4–2.4 38.08N 141.56E 59–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ34.00000°,λ29.00000°. NP2:ϕ_s26.00000°,δ74.00000°,λ120.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.1km az=19.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=13.6km az=90.0.
ISC IV 19 03 45 50.7–.61 35.27N–.05 141.32E–.06 10 3.8b 29 1-148
ISCJB IV 19 03 45 49.9–.56 35.29N–.04 141.44E–.06 10 3.7b,2.8s ¶17201463
JMA IV 19 03 45 51.9–.10 35.30N 141.28E 17–2 3.4,2.8s
IDC IV 19 03 45 56.5–2.7 35.30N 140.93E 53–25 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.3km az=160.8.
IDC Error ellipse: s-maj=26.3km s-min=16.8km az=93.0.
ISC IV 19 03 59 51.6–1.0 36.71N–.05 140.83E–.07 20–3 3.5b 22 0-74
NIED IV 19 03 59 00 36.70N 140.80E 8 3.5W ¶17201464
IDC IV 19 03 59 46.6–1.0 36.80N 141.42E 0 3.8L,3.7
ISCJB IV 19 03 59 49.7–1.1 36.67N–.04 141.05E–.07 20–6 3.5b,3.7
JMA IV 19 03 59 52.6 36.75N 140.80E 14–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ43.00000°,λ-95.00000°. NP2:ϕ_s155.00000°,δ47.00000°,λ-85.00000°. $M_0$1.89000×10^{14}
IDC Error ellipse: s-maj=29.7km s-min=21.0km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.3km az=27.6.
JMA Event type fe.
JMA IV 19 04 47 14.4–.10 37.81N 141.78E 28–3 3.6
NIED IV 19 04 47 00 37.80N 141.80E 65 4.2W ¶600592300
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ16.00000°,λ73.00000°. NP2:ϕ_s220.00000°,δ75.00000°,λ95.00000°. $M_0$2.12000×10^{15}
JMA IV 19 05 14 58.9–.10 38.29N 141.82E 46–1 2.3
¶16505439
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 06 42 31.4–.20 35.91N 141.11E 23–2 3.1
¶600592396
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 19 07 03 03.2–2.0 37.34N–.05 141.47E–.10 26–13 24 0-57
IDC IV 19 07 03 01.2–2.6 37.17N 141.62E 0 3.5,3.3b ¶17201480
JMA IV 19 07 03 04.0–.10 37.34N 141.44E 31–1 3.6,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=48.3km s-min=33.4km az=43.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 19 08 29 36.3–3.3 38.13N–.07 142.73E–.09 12–18 3.6b 21 1-62
ISCJB IV 19 08 29 35.8–2.1 38.21N–.05 142.81E–.07 10–14 3.6b,2.5s ¶17201483
JMA IV 19 08 29 35.6–.30 38.12N 142.87E 27–5 3.9,2.5s
IDC IV 19 08 29 43.9–3.5 38.49N 142.72E 53–32 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.6km az=159.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=15.2km az=115.0.
JMA IV 19 09 45 16.4 36.78N 140.63E 2–1 2.6
¶600592568
JMA IV 19 10 00 59.0–.10 38.55N 141.97E 32–1 3.6
¶600592585
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 11 29 50.7–.10 38.32N 141.90E 60–1 3.5
¶600592682
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 11 52 34.9–.20 35.70N 140.93E 10–1 3.7
NIED IV 19 11 52 00 35.70N 140.90E 5 3.6W ¶600592705
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ29.00000°,λ-98.00000°. NP2:ϕ_s176.00000°,δ62.00000°,λ-86.00000°. $M_0$2.75000×10^{14}
ISC IV 19 12 50 14.5–1.6 36.21N–.07 142.0E–.10 23 3.5b 13 1-60
IDC IV 19 12 50 10.1–2.6 36.35N 142.19E 0 3.8L,3.6 ¶17201501
ISCJB IV 19 12 50 12.9–1.1 36.19N–.07 142.02E–.09 23 3.5b,3.6
JMA IV 19 12 50 15.9–.30 36.24N 141.85E 59 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=61.8km s-min=28.7km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.6km az=142.3.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC IV 19 12 55 32.5–.69 40.07N–.03 142.13E–.05 45–6 4.6b,3.6s 258 0-151
NIED IV 19 12 55 00 40.10N 142.10E 50 4.3W,3.6s ¶16447757
MOS IV 19 12 55 31.8–.91 40.15N 142.05E 50 4.8b,3.6s
ISCJB IV 19 12 55 32.1–.37 40.08N–.03 142.13E–.04 54–2 4.5b,3.5s
JMA IV 19 12 55 33.3–.10 40.08N 142.11E 48–1 4.3,3.5s
IDC IV 19 12 55 34.7–1.6 40.06N 142.06E 66–13 4.4,4.3
NEIC IV 19 12 55 35.1–.54 40.08N 142.08E 69–4 4.5b,4.3
BJI IV 19 12 55 41.5 41.20N 141.60E 60 4.7b,4.7b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ20.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ70.00000°,λ87.00000°. $M_0$3.65000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=4.7km az=101.2.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.9km az=26.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.1km s-min=9.6km az=114.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=127.0. Felt [IV] at Misawa. Recorded [4 JMA] in Aomori.
ISC IV 19 13 21 11.9–1.6 36.17N–.08 141.8E–.10 23 3.6b 16 1-56
IDC IV 19 13 21 07.5–2.2 36.17N 142.07E 0 3.8,3.6 ¶17201505
ISCJB IV 19 13 21 09.2–1.2 36.16N–.07 142.02E–.09 23 3.6b,3.6
JMA IV 19 13 21 10.8–.20 36.23N 141.96E 54 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=28.0km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=9.5km az=167.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 14 01 33.8–.10 36.64N 141.06E 42–2 3.5
¶600592837
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 19 14 29 35.9–1.6 36.37N–.05 141.01E–.07 29–11 3.5b 24 0-60
NIED IV 19 14 29 00 36.30N 141.00E 38 3.7W ¶17201508
IDC IV 19 14 29 31.3–1.6 36.25N 141.21E 0 3.6,3.6
ISCJB IV 19 14 29 34.9–1.2 36.31N–.04 141.10E–.07 33–7 3.5b,3.1s
JMA IV 19 14 29 35.6–.10 36.31N 141.04E 45–1 3.6,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ15.00000°,λ-157.00000°. NP2:ϕ_s181.00000°,δ84.00000°,λ-76.00000°. $M_0$3.91000×10^{14}
IDC Error ellipse: s-maj=44.8km s-min=22.4km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.5km az=5.5.
JMA Event type fe.
JMA IV 19 14 35 36.5 36.97N 140.76E 10–1 3.5
¶600592861
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s315.00000°,δ56.00000°,λ-103.00000°. NP2:ϕ_s157.00000°,δ36.00000°,λ-71.00000°. Principal axes: T Plg10.0000°,Azm54.0000°; N Plg11.0000°,Azm322.0000°; P Plg75.0000° ,Azm186.0000°
ISC IV 19 14 47 08.7–.92 36.91N–.03 140.80E–.05 13–5 4.5b,3.2s 163 0-147
NIED IV 19 14 47 00 36.90N 140.90E 5 4.2W,3.2s ¶16448718
ISCJB IV 19 14 47 06.8–.62 36.87N–.02 140.91E–.04 12–3 4.4b,3.3s
NEIC IV 19 14 47 06.9–2.1 36.90N 140.84E 2–13 4.6b,3.3s
IDC IV 19 14 47 06.7–.52 36.89N 140.80E 0 4.5,4.4
BJI IV 19 14 47 07.9 37.03N 140.94E 23 4.8b,4.7b
JMA IV 19 14 47 08.1 36.88N 140.81E 8–1 4.5,4.7b
MOS IV 19 14 47 10.3–1.1 36.97N 140.81E 34 4.7b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ24.00000°,λ-72.00000°. NP2:ϕ_s145.00000°,δ68.00000°,λ-98.00000°. $M_0$2.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=23.4.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=106.0. Recorded [4 JMA] in Fukushima.
IDC Error ellipse: s-maj=13.8km s-min=13.1km az=142.0.
JMA Event type fe.
MOS Error ellipse: s-maj=9.2km s-min=5.4km az=104.6.
JMA IV 19 14 56 35.6 36.88N 140.81E 7–1 2.5
¶600592877
ISC IV 19 15 18 16.2–2.0 36.24N–.05 141.89E–.07 4–12 3.7b 34 1-70
NIED IV 19 15 18 00 36.30N 141.90E 20 3.8W ¶17201514
IDC IV 19 15 18 15.7–.85 36.19N 141.89E 0 3.8,3.7
JMA IV 19 15 18 18.2–.20 36.29N 141.89E 34–4 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ47.00000°,λ32.00000°. NP2:ϕ_s38.00000°,δ68.00000°,λ132.00000°. $M_0$5.15000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=17.2km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 15 48 29.8–.10 38.29N 141.89E 66–1 3.6
¶602945441
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 16 10 32.0–.10 38.40N 141.89E 57–1 3.6
¶600592924
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 16 19 25.7 36.70N 140.63E 7 2.6
¶600592934
ISC IV 19 16 43 03.4–1.1 34.61N–.05 140.23E–.06 83–8 23 0-55
IDC IV 19 16 42 56.4–2.7 34.04N 139.67E 0 3.7,3.5 ¶17201521
ISCJB IV 19 16 43 02.5–.73 34.61N–.05 140.25E–.07 89–6 3.5b,3.5
JMA IV 19 16 43 03.1–.20 34.58N 140.24E 80–2 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.6km s-min=29.6km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.3km az=145.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 18 02 05.8–.20 37.61N 141.90E 28–3 3.7
¶600593008
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 19 19 02 08.6–.46 35.42N–.04 140.94E–.06 33 4.2b,3.3s 98 0-148
NIED IV 19 19 02 00 35.40N 140.90E 23 4.2W,3.3s ¶16505443
IDC IV 19 19 02 04.1–.65 35.38N 140.76E 0 4.1,3.9
NEIC IV 19 19 02 06.1–2.7 35.43N 140.96E 12–17 4.5b,3.9
ISCJB IV 19 19 02 07.0–.29 35.39N–.03 140.94E–.05 33 4.3b,3.4s
JMA IV 19 19 02 07.0–.10 35.45N 140.92E 26–1 4.2,3.4s
MOS IV 19 19 02 08.2–2.1 35.52N 140.95E 36 4.4b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ67.00000°,λ13.00000°. NP2:ϕ_s307.00000°,δ78.00000°,λ157.00000°. $M_0$2.54000×10^{15}
IDC Error ellipse: s-maj=21.9km s-min=15.2km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=102.0. Recorded [2 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=11.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=11.0km s-min=6.3km az=99.1.
ISC IV 19 19 29 22.9–.69 37.08N–.04 141.23E–.05 51–5 4.5b,3.3s 254 0-147
NIED IV 19 19 29 00 37.00N 141.20E 53 4.3W,3.3s ¶16448723
ISCJB IV 19 19 29 21.2–.45 37.06N–.03 141.25E–.05 52–3 4.4b,3.2s
JMA IV 19 19 29 22.9–.10 37.05N 141.16E 47–1 4.4,3.2s
MOS IV 19 19 29 24.0–.86 37.43N 140.97E 55 4.7b,3.2s
NEIC IV 19 19 29 24.3–.55 37.10N 141.13E 62–4 4.6b,3.2s
BJI IV 19 19 29 24.0 36.95N 140.81E 63 4.8b,4.7b
IDC IV 19 19 29 24.7–2.0 37.09N 141.13E 64–16 4.3,4.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ17.00000°,λ88.00000°. NP2:ϕ_s19.00000°,δ73.00000°,λ91.00000°. $M_0$3.31000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=5.3km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=123.0. Felt at Misawa and Yokosuka. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=15.0km s-min=10.9km az=106.0.
JMA IV 19 19 34 00.5–.10 39.45N 142.85E 26–1 3.6
¶600593088
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 19 19 44 37.4–.20 38.03N 142.84E 37 3.5

¶600593095
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 19 20 20 54.0–1.8 36.54N–.05 141.09E–.07 12–11 3.7b 22 0-75
NIED IV 19 20 20 00 36.50N 141.00E 8 3.8W ¶600593136
IDC IV 19 20 20 51.7–.89 36.49N 141.15E 0 3.8,3.6
ISCJB IV 19 20 20 54.2–1.1 36.53N–.04 141.11E–.08 27–7 3.6b,2.4s
JMA IV 19 20 20 55.3–.10 36.53N 141.03E 34–1 3.7,2.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ59.00000°,λ-30.00000°. NP2:ϕ_s317.00000°,δ65.00000°,λ-146.00000°. $M_0$6.07000×10^{14}
IDC Error ellipse: s-maj=26.8km s-min=17.6km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=6.1km az=14.6.
JMA Event type fe.
ISC IV 19 20 58 31.0–1.7 37.09N–.05 141.42E–.09 32–10 3.5b 21 0-57
NIED IV 19 20 58 00 37.10N 141.30E 44 3.6W ¶600593164
IDC IV 19 20 58 25.9–1.4 36.96N 141.69E 0 3.7,3.5
ISCJB IV 19 20 58 31.0–.99 37.08N–.04 141.39E–.10 47–10 3.5b,3.5
JMA IV 19 20 58 33.0–.10 37.08N 141.25E 42–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ42.00000°,λ-2.00000°. NP2:ϕ_s111.00000°,δ89.00000°,λ-132.00000°. $M_0$2.62000×10^{14}
IDC Error ellipse: s-maj=34.6km s-min=25.6km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=7.0km az=7.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 21 22 42.5 36.92N 140.71E 9–1 3.1
¶600593178
JMA Event type fe.
JMA IV 19 21 23 26.6–.10 38.31N 141.60E 20–1 2.5
¶600593181
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 19 21 37 59.3–1.4 36.38N–.04 141.00E–.05 16–8 4.3b 67 0-147
IDC IV 19 21 37 57.6–.84 36.39N 140.81E 0 4.0,4.0L ¶16448728
ISCJB IV 19 21 37 58.5–.86 36.37N–.04 141.03E–.05 21–5 4.4b,3.1s
JMA IV 19 21 38 00.7–.10 36.45N 140.93E 33–1 4.0,3.1s
NIED IV 19 21 38 00 36.50N 140.90E 14 4.0W,3.1s
NEIC IV 19 21 38 01.5–2.6 36.32N 140.93E 29–19 4.6b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=19.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.0km az=37.1.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ62.00000°,λ-160.00000°. NP2:ϕ_s184.00000°,δ72.00000°,λ-29.00000°. $M_0$1.13000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.5km az=89.0. Recorded [3 JMA] in Ibaraki.
ISC IV 19 22 58 30.6–2.7 39.20N–.05 142.5E–.10 5–15 3.7b 17 1-59
IDC IV 19 22 58 28.7–2.7 39.21N 142.82E 0 4.3,4.3s ¶17201560
JMA IV 19 22 58 33.9–.10 39.19N 142.42E 31–1 3.9,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=68.9km s-min=30.4km az=71.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 19 23 07 01.9–.32 34.08N–.03 140.19E–.03 91–2 5.0b 1081 1-155
MOS IV 19 23 06 55.7–.87 34.07N 140.08E 44 5.3b,4.1s ¶16448730
BJI IV 19 23 06 56.5 34.05N 140.53E 90 4.9b,4.9b
NIED IV 19 23 07 00 34.10N 140.20E 80 4.9W,4.9b
ISCJB IV 19 23 07 01.8–.22 34.04N–.02 140.08E–.02 97–1 4.9b,4.9b
JMA IV 19 23 07 02.2–.10 34.12N 140.25E 84–2 5.0,4.9b
NEIC IV 19 23 07 02.3–.09 34.01N 140.05E 90 5.0b,4.9b
IDC IV 19 23 07 02.4–.32 34.08N 140.14E 94–2 4.9,4.7
GCMT IV 19 23 07 03.5–.30 34.10N 140.29E 94–2 5.0W,4.7
ISC Event type fe.
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=100.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ31.00000°,λ66.00000°. NP2:ϕ_s221.00000°,δ62.00000°,λ104.00000°. $M_0$2.70000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.8km az=168.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=153.0. Felt at Numazu, Tokyo, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba, Kanagawa, Shizuoka and Tokyo.
IDC Error ellipse: s-maj=9.9km s-min=5.1km az=96.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c44; s81,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.23±.12 $M_{\theta\theta}$-0.06±.13; $M_{\phi\phi}$-2.17±.13; $M_{r\theta}$-1.18±.08; $M_{\theta\phi}$-1.85±.11; $M_{\phi r}$-1.49±.08; Best double couple: NP1:ϕ_s217.00000°,δ63.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ28.00000°,λ74.00000°. Principal axes: T 2.8510,Plg71.0000°,Azm146.0000°; N 0.9790,Plg7.0000°,Azm33.0000°; P -3.8300,Plg17.0000°,Azm301.0000° $M_0$3.34000×10^{16}
ISC IV 20 00 39 23.1–1.1 36.96N–.03 140.55E–.04 6–7 3.6b 35 0-147
ISCJB IV 20 00 39 23.2–.74 36.93N–.03 140.73E–.05 15–4 3.6b ¶17201566
JMA IV 20 00 39 23.6 36.94N 140.65E 5–1 3.9
IDC IV 20 00 39 29.4–3.9 36.95N 140.46E 50–36 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.3km az=24.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s224.00000°,δ49.00000°,λ-105.00000°. NP2:ϕ_s67.00000°,δ43.00000°,λ-73.00000°. Principal axes: T Plg3.0000°,Azm325.0000°; N Plg12.0000°,Azm234.0000°; P Plg78.0000°,Azm69.0000°
IDC Error ellipse: s-maj=26.1km s-min=18.3km az=90.0.
ISC IV 20 02 16 03.1–2.9 37.38N–.07 141.8E–.10 25–15 3.5b 17 1-63
IDC IV 20 02 15 51.4–5.3 33.74N 141.38E 52–46 3.5,3.4 ¶600593359
JMA IV 20 02 16 03.1–.20 37.39N 141.83E 24–3 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=27.7km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 20 03 09 13.0–1.0 38.41N–.05 142.20E–.07 24–6 3.6b,3.3s 32 1-91
NIED IV 20 03 09 00 38.40N 142.20E 32 3.9W,3.3s ¶17201580
ISCJB IV 20 03 09 11.9–1.4 38.41N–.04 142.21E–.08 26–8 3.5b,3.4s
JMA IV 20 03 09 12.6–.10 38.44N 142.19E 27–1 3.7,3.4s
IDC IV 20 03 09 13.5–1.4 38.38N 142.21E 26–5 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ53.00000°,λ-136.00000°. NP2:ϕ_s202.00000°,δ56.00000°,λ-47.00000°. $M_0$8.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.1km az=24.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=19.2km az=147.0.
ISC IV 20 04 12 22.0–.77 36.30N–.05 141.86E–.07 19 3.9b 36 1-147
NIED IV 20 04 12 00 36.20N 142.00E 20 3.8W ¶16536018
ISCJB IV 20 04 12 19.3–.65 36.21N–.05 142.09E–.07 19 3.9b,3.3s
JMA IV 20 04 12 20.9–.20 36.21N 142.01E 51 3.6,3.3s
IDC IV 20 04 12 21.8–1.1 36.68N 141.82E 0 4.0,3.9L
NEIC IV 20 04 12 28.0–1.5 36.66N 141.67E 45–11 4.2b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ27.00000°,λ119.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ76.00000°. $M_0$5.61000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.2km az=35.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=24.5km az=174.0.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=11.0km az=137.0.
JMA IV 20 06 05 04.4–.30 36.66N 141.40E 32–4 2.4
¶600593495
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 20 06 05 17.3–1.9 39.34N–.06 142.44E–.09 28–11 3.9b 37 1-145
ISCJB IV 20 06 05 16.0–1.3 39.15N–.05 142.39E–.08 33–7 3.9b ¶17201590
JMA IV 20 06 05 17.8–.20 39.41N 142.44E 34–2 4.4
IDC IV 20 06 05 17.5–2.9 39.03N 142.52E 38–25 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=8.3km az=10.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=15.5km az=107.0.
JMA IV 20 06 05 20.4–.10 38.84N 142.03E 45–1 4.0
¶600593498
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 20 06 15 06.9–.10 37.16N 141.36E 29–2 2.5
¶603308258
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 20 06 18 01.5–1.1 38.86N–.06 142.19E–.09 35 3.9b 23 0-70
IDC IV 20 06 17 53.9–2.0 39.02N 142.83E 0 3.9,3.8 ¶17201596
ISCJB IV 20 06 18 00.0–.87 38.88N–.05 142.30E–.08 35 3.8b,3.8
NIED IV 20 06 18 00 38.90N 142.00E 47 3.5W,3.8
JMA IV 20 06 18 03.4–.10 38.88N 142.00E 49–1 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=56.6km s-min=27.8km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=7.0km az=20.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ24.00000°,λ87.00000°. NP2:ϕ_s28.00000°,δ66.00000°,λ91.00000°. $M_0$2.12000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 20 07 09 29.5 38.35N 141.74E 57–1 3.5
¶600593548
JMA Event type fe.
JMA IV 20 07 27 21.7–.10 38.35N 142.05E 34–1 3.7
¶600593559
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 20 07 52 15.9–.59 36.24N–.04 141.77E–.05 26–4 4.5b,4.0s 206 1-147
NIED IV 20 07 52 00 36.20N 141.90E 11 4.6W,4.0s ¶600593580
JMA IV 20 07 52 14.1–.20 36.25N 141.85E 33 4.4,4.0s
ISCJB IV 20 07 52 15.1–.81 36.29N–.03 141.74E–.04 28–5 4.5b,4.0s
BJI IV 20 07 52 16.6 36.30N 141.51E 36 4.8b,4.8b
IDC IV 20 07 52 16.6–3.4 36.16N 141.74E 33–25 4.3,4.2
NEIC IV 20 07 52 18.1–.73 36.28N 141.68E 38–6 4.7b,4.2
MOS IV 20 07 52 19.2–.82 36.66N 141.57E 46 4.8b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ17.00000°,λ98.00000°. NP2:ϕ_s20.00000°,δ73.00000°,λ87.00000°. $M_0$7.59000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.4km az=39.1.
IDC Error ellipse: s-maj=13.5km s-min=11.1km az=100.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.4km az=146.0.
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=105.8.
JMA IV 20 08 14 15.6–.10 39.18N 142.42E 34–2 3.8
NIED IV 20 08 14 00 39.20N 142.40E 56 3.7W ¶600593600
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ41.00000°,λ-94.00000°. NP2:ϕ_s177.00000°,δ49.00000°,λ-87.00000°. $M_0$3.53000×10^{14}
JMA IV 20 08 21 34.9 36.88N 140.68E 7–1 2.7
¶600593610
ISC IV 20 08 30 25.5–.82 36.79N–.04 141.11E–.07 48–6 4.1b 104 0-147
NIED IV 20 08 30 00 36.80N 141.10E 44 4.0W ¶16448750
MOS IV 20 08 30 23.5–1.1 36.85N 141.20E 47 4.5b
NEIC IV 20 08 30 24.3–.38 36.81N 141.19E 35 4.4b
ISCJB IV 20 08 30 24.0–.51 36.79N–.03 141.16E–.05 52–3 4.2b,3.8s
JMA IV 20 08 30 25.2–.10 36.78N 141.10E 46–1 4.1,3.8s
BJI IV 20 08 30 25.1 37.00N 140.90E 17 4.9b,4.5b
IDC IV 20 08 30 26.1–1.8 36.76N 141.08E 56–17 4.3L,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ24.00000°,λ-90.00000°. NP2:ϕ_s91.00000°,δ66.00000°,λ-90.00000°. $M_0$1.24000×10^{15}
MOS Error ellipse: s-maj=9.5km s-min=6.8km az=92.9.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.6km az=137.0. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.2km az=29.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.1km s-min=10.2km az=76.0.
ISC IV 20 09 06 13.6–1.3 36.96N–.04 141.38E–.07 25–9 3.5b 26 0-147
NIED IV 20 09 06 00 37.00N 141.20E 59 3.8W ¶17201606
IDC IV 20 09 06 12.1–1.2 36.60N 141.33E 0 3.7,3.4
ISCJB IV 20 09 06 14.0–.85 36.94N–.04 141.37E–.08 41–11 3.4b,3.4
JMA IV 20 09 06 15.8–.10 36.96N 141.22E 42–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ39.00000°,λ59.00000°. NP2:ϕ_s270.00000°,δ57.00000°,λ112.00000°. $M_0$6.51000×10^{14}
IDC Error ellipse: s-maj=27.5km s-min=26.9km az=167.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.6km az=19.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 20 09 16 13.4–.85 37.72N–.04 141.81E–.06 17–4 3.5b 28 1-89
IDC IV 20 09 16 10.9–.86 37.69N 141.94E 0 3.7,3.5 ¶17201607
JMA IV 20 09 16 12.9–.10 37.70N 141.88E 22–2 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=27.9km s-min=17.3km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 20 10 01 22.0–.10 38.17N 141.76E 55–1 3.6
¶600593660
JMA Event type fe.
ISC IV 20 12 40 13.8–1.3 35.86N–.05 140.80E–.08 32–10 3.6b 18 0-65
IDC IV 20 12 40 08.4–.91 35.74N 140.99E 0 3.6,3.5 ¶17201615
ISCJB IV 20 12 40 13.1–.64 35.83N–.05 140.83E–.08 48–5 3.4b,3.5
JMA IV 20 12 40 14.0–.10 35.87N 140.87E 39–1 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=16.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=157.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 20 13 24 13.6–1.9 36.44N–.05 141.20E–.08 30–12 3.5b 27 1-60
NIED IV 20 13 24 00 36.40N 141.10E 32 3.7W ¶17201618
ISCJB IV 20 13 24 13.3–.86 36.43N–.04 141.20E–.07 43–8 3.6b
JMA IV 20 13 24 14.4–.10 36.44N 141.08E 45–2 3.8
IDC IV 20 13 24 14.7–2.8 36.41N 141.28E 41–24 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ57.00000°,λ159.00000°. NP2:ϕ_s27.00000°,δ73.00000°,λ35.00000°. $M_0$3.71000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.3km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.1km s-min=11.5km az=67.0.
ISC IV 20 15 29 44.9–.77 36.65N–.04 140.97E–.05 49–6 4.3b,3.2s 106 0-147
NIED IV 20 15 29 00 36.70N 141.00E 50 4.2W,3.2s ¶602557843
MOS IV 20 15 29 43.5–1.0 36.66N 140.97E 52 4.6b,3.2s
ISCJB IV 20 15 29 43.9–.45 36.63N–.03 140.96E–.04 56–3 4.2b,3.2s
NEIC IV 20 15 29 45.4–.64 36.60N 140.90E 54–6 4.5b,3.2s
JMA IV 20 15 29 45.2–.10 36.64N 140.90E 50–1 4.2,3.2s
IDC IV 20 15 29 47.3–1.5 36.58N 140.78E 70–14 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ9.00000°,λ-140.00000°. NP2:ϕ_s205.00000°,δ84.00000°,λ-83.00000°. $M_0$2.27000×10^{15}
MOS Error ellipse: s-maj=8.9km s-min=6.2km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.2km az=31.3.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.8km az=110.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
IDC Error ellipse: s-maj=12.9km s-min=8.7km az=71.0.
ISC IV 20 16 33 19.6–.55 38.16N–.04 141.84E–.04 50–4 4.7b,3.7s 408 0-152
NIED IV 20 16 33 00 38.10N 141.80E 56 4.6W,3.7s ¶16449067
BJI IV 20 16 33 18.5 38.22N 141.88E 62 4.8b,4.6b
MOS IV 20 16 33 19.3–.94 38.42N 141.70E 47 5.0b,4.6b
IDC IV 20 16 33 21.0–1.7 38.19N 141.67E 60–14 4.5,4.4
JMA IV 20 16 33 20.6–.10 38.15N 141.74E 55–1 4.5,4.4
ISCJB IV 20 16 33 20.3–.32 38.16N–.02 141.69E–.03 65–2 4.5b,4.4
NEIC IV 20 16 33 21.8–.43 38.21N 141.65E 64–4 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ39.00000°,λ97.00000°. NP2:ϕ_s195.00000°,δ52.00000°,λ84.00000°. $M_0$7.91000×10^{15}
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=92.7.
IDC Error ellipse: s-maj=13.8km s-min=9.3km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.4km az=142.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=143.0. Recorded [3 JMA] in Miyagi.
ISC IV 20 16 57 11.0–2.0 38.24N–.04 142.11E–.08 29–13 3.4b 31 1-76

NIED IV 20 16 57 00 38.30N 142.00E 56 3.8W **¶17201629**
IDC IV 20 16 57 07.0–.91 38.08N 142.43E 0 3.6,3.6L
ISCJB IV 20 16 57 10.7–.98 38.23N–.04 142.11E–.09 38–11 3.3b,3.6L
JMA IV 20 16 57 12.0–.10 38.28N 142.01E 44–1 3.9,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ52.00000°,λ-144.00000°. NP2:ϕ_s127.00000°,δ62.00000°,λ-45.00000°. $M_0$4.74000×10^{14}
IDC Error ellipse: s-maj=27.9km s-min=18.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.5km az=20.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 20 19 04 23.8–.98 36.89N–.03 140.71E–.05 12–6 3.7b 34 0-74
NIED IV 20 19 04 00 36.90N 140.70E 5 3.8W **¶16450227**
IDC IV 20 19 04 21.7–.81 36.79N 140.75E 0 3.8,3.7
ISCJB IV 20 19 04 22.8–.67 36.87N–.03 140.82E–.06 20–4 3.7b,3.7
JMA IV 20 19 04 23.8 36.89N 140.71E 10–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ22.00000°,λ-54.00000°. NP2:ϕ_s171.00000°,δ73.00000°,λ-103.00000°. $M_0$5.65000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=14.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=4.2km az=23.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s186.00000°,δ46.00000°,λ-95.00000°. NP2:ϕ_s14.00000°,δ44.00000°,λ-84.00000°. Principal axes: T Plg1.0000°,Azm280.0000°; N Plg4.0000°,Azm190.0000°; P Plg86.0000°,Azm24.0000°
JMA IV 20 19 22 00.4–.10 36.38N 141.01E 39–1 3.6
NIED IV 20 19 22 00 36.40N 141.00E 29 3.6W **¶600594273**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ28.00000°,λ-178.00000°. NP2:ϕ_s225.00000°,δ89.00000°,λ-62.00000°. $M_0$2.42000×10^{14}
ISC IV 20 20 04 04.0–1.4 36.20N–.07 141.9E–.10 23 3.4b 14 1-56
IDC IV 20 20 03 59.9–2.6 36.22N 142.14E 0 3.6,3.5 **¶17201639**
ISCJB IV 20 20 04 02.0–1.1 36.20N–.07 142.02E–.10 23 3.4b,3.5
JMA IV 20 20 04 04.1–.20 36.20N 141.86E 55 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=74.3km s-min=27.9km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=9.8km az=17.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 20 20 32 28.2–.94 36.15N–.04 140.08E–.05 53–7 3.4b 28 0-60
NIED IV 20 20 32 00 36.20N 140.10E 56 3.6W **¶17201641**
IDC IV 20 20 32 20.2–1.8 36.33N 140.44E 0 3.9L,3.6
ISCJB IV 20 20 32 27.1–.52 36.14N–.03 140.10E–.06 59–5 3.3b,3.6
JMA IV 20 20 32 28.4–.10 36.18N 140.05E 51–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ27.00000°,λ108.00000°. NP2:ϕ_s43.00000°,δ64.00000°,λ81.00000°. $M_0$2.74000×10^{14}
IDC Error ellipse: s-maj=43.5km s-min=19.1km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.4km az=18.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s39.00000°,δ73.00000°,λ83.00000°. NP2: ϕ_s241.00000°,δ18.00000°,λ111.00000°. Principal axes: T Plg61.0000°,Azm299.0000°; N Plg6.0000°,Azm41.0000°; P Plg28.0000°,Azm134.0000°
ISC IV 20 22 29 15.5–1.5 38.21N–.04 142.19E–.06 19–4 3.5b 24 1-58
NIED IV 20 22 29 00 38.20N 142.20E 50 3.6W **¶17201646**
IDC IV 20 22 29 13.5–1.4 37.94N 143.16E 0 3.6,3.5b
JMA IV 20 22 29 17.1–.10 38.23N 142.23E 38–2 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ54.00000°,λ169.00000°. NP2:ϕ_s260.00000°,δ81.00000°,λ37.00000°. $M_0$2.74000×10^{14}
IDC Error ellipse: s-maj=41.0km s-min=25.9km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 20 23 27 12.8–1.9 35.78N–.07 141.5E–.10 26 3.2b 11 1-56
ISCJB IV 20 23 27 11.1–1.3 35.82N–.08 141.6E–.10 26 3.2b **¶17201650**
JMA IV 20 23 27 12.2–.10 35.79N 141.53E 38–2 2.9
IDC IV 20 23 27 13.6–2.5 36.71N 141.38E 0 3.3,3.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=10.9km az=1.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=65.1km s-min=29.8km az=61.0.
ISC IV 20 23 34 02.2–3.4 38.39N–.06 142.18E–.08 7–20 3.9b 23 1-62
NIED IV 20 23 34 00 38.40N 142.10E 32 3.7W **¶600594492**
JMA IV 20 23 34 05.2–.10 38.41N 142.10E 38–1 4.0
IDC IV 20 23 34 07.0–2.9 38.31N 142.18E 48–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ47.00000°,λ-32.00000°. NP2:ϕ_s314.00000°,δ67.00000°,λ-133.00000°. $M_0$3.55000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=17.0km az=100.0.
ISC IV 20 23 48 40.9–2.4 37.07N–.10 141.8E–.20 35 15 1-44
IDC IV 20 23 48 29.0–10 36.65N 142.75E 0 3.5,3.5 **¶17201653**
JMA IV 20 23 48 39.7–.20 37.04N 141.73E 32–3 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=177.5km s-min=75.5km az=136.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 21 00 36 10.2–1.1 35.81N–.06 140.79E–.09 10–8 3.3b 14 0-65
NIED IV 21 00 36 00 35.80N 140.80E 8 3.6W **¶17201657**
ISCJB IV 21 00 36 10.0–.80 35.80N–.05 140.8E–.10 13–7 3.2b
JMA IV 21 00 36 10.5 35.79N 140.76E 6–1 3.8
IDC IV 21 00 36 16.1–1.2 34.92N 138.86E 0 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ44.00000°,λ-15.00000°. NP2:ϕ_s146.00000°,δ80.00000°,λ-133.00000°. $M_0$2.60000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.7km az=172.6.
JMA Event type fe.
IDC Error ellipse: s-maj=36.8km s-min=20.7km az=82.0.
JMA IV 21 00 40 01.2–.10 37.31N 141.14E 26–1 4.4
¶600594541
JMA Event type fe.
JMA IV 21 00 42 12.1 38.43N 141.89E 55–1 3.5
¶600594542
JMA Event type fe.
JMA IV 21 00 42 59.1–.20 37.66N 141.87E 29–4 3.6
¶600594545
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 21 01 25 40.9 36.97N 140.52E 7–1 2.6
¶600594575
ISC IV 21 01 47 55.0–1.1 40.14N–.08 142.8E–.10 12 3.7b 18 1-73
JMA IV 21 01 47 45.8–.20 40.34N 143.77E 26 3.5 **¶17201661**
ISCJB IV 21 01 47 52.6–.92 40.17N–.07 143.1E–.10 12 3.6b
IDC IV 21 01 47 53.4–1.2 40.23N 142.89E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=9.5km az=29.9.
IDC Error ellipse: s-maj=31.7km s-min=24.7km az=93.0.
JMA IV 21 02 57 00.2–.20 37.08N 141.87E 18–3 3.5
¶600594649
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 21 03 37 36.9–3.5 38.28N–.07 142.1E–.10 23–22 3.6b 18 1-58
ISCJB IV 21 03 37 36.2–1.8 38.28N–.06 142.1E–.10 28–9 3.5b,3.4s **¶17201669**
IDC IV 21 03 37 37.6–8.7 38.40N 142.61E 38–62 3.6,3.6s
JMA IV 21 03 37 37.9–.10 38.32N 142.07E 36–1 3.9,3.6s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=9.1km az=26.0.
IDC Error ellipse: s-maj=76.0km s-min=25.0km az=75.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 21 04 44 43.8 36.99N 140.60E 7 3.0
¶600594701
JMA Event type fe.
ISC IV 21 04 56 48.5–2.1 36.70N–.06 141.2E–.10 30–11 18 1-57
IDC IV 21 04 56 41.9–2.8 36.84N 141.83E 0 3.9,3.6 **¶17201672**
ISCJB IV 21 04 56 50.7–1.9 36.74N–.05 141.1E–.10 14–9 3.4b,3.6
JMA IV 21 04 56 51.5–.10 36.76N 141.06E 26–1 3.1,3.6

ISC Event type ke.
IDC Error ellipse: s-maj=55.7km s-min=35.8km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=7.0km az=15.4.
JMA IV 21 05 19 40.7–.10 38.42N 142.15E 30–2 3.7
NIED IV 21 05 19 00 38.40N 142.20E 38 3.7W **¶600594713**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ34.00000°,λ-69.00000°. NP2:ϕ_s343.00000°,δ58.00000°,λ-104.00000°. $M_0$3.80000×10^{14}
JMA IV 21 05 42 14.6–.10 39.75N 142.37E 41–1 3.6
NIED IV 21 05 42 00 39.80N 142.40E 44 3.6W **¶600594722**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ23.00000°,λ85.00000°. NP2:ϕ_s17.00000°,δ67.00000°,λ92.00000°. $M_0$3.19000×10^{14}
ISC IV 21 06 45 47.5–1.5 36.26N–.05 142.0E–.10 19 16 1-56
IDC IV 21 06 45 44.5–3.8 36.14N 142.19E 0 3.5,3.4L **¶17201681**
ISCJB IV 21 06 45 46.6–1.2 36.19N–.05 142.02E–.10 19 3.4b,3.4L
JMA IV 21 06 45 48.5–.20 36.20N 141.91E 66 3.0,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=98.0km s-min=37.5km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.4km az=176.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 21 07 45 33.9–2.4 37.32N–.07 141.88E–.09 26–16 19 1-57
IDC IV 21 07 45 30.5–1.8 37.06N 142.26E 0 3.6,3.3b **¶17201691**
ISCJB IV 21 07 45 33.3–1.5 37.28N–.06 141.91E–.08 28–8 3.4b,2.9s
JMA IV 21 07 45 34.9–.10 37.31N 141.83E 33–3 3.2,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=57.1km s-min=34.4km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.9km az=32.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 21 07 53 39.2–4.1 35.76N 141.70E 0 3.5,3.4b
¶17201694
IDC Error ellipse: s-maj=109.5km s-min=36.0km az=53.0.
ISC IV 21 07 59 37.4–2.0 38.14N–.05 142.08E–.09 29–13 3.7b 31 1-146
NIED IV 21 07 59 00 38.20N 142.10E 38 3.8W **¶17201696**
ISCJB IV 21 07 59 37.6–1.2 38.15N–.05 142.2E–.10 45–10 3.6b
JMA IV 21 07 59 37.9–.20 38.17N 142.14E 41–1 3.9
IDC IV 21 07 59 40.7–2.6 38.15N 142.14E 58–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ8.00000°,λ27.00000°. NP2:ϕ_s358.00000°,δ86.00000°,λ97.00000°. $M_0$5.21000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=6.1km az=23.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.6km s-min=13.8km az=110.0.
ISC IV 21 08 18 13.6–.44 38.33N–.03 142.20E–.03 25–2 5.4b,4.7s 1409 1-161
NIED IV 21 08 18 00 38.30N 142.20E 20 4.9W,4.7s **¶16450242**
BJI IV 21 08 18 10.5 38.33N 142.34E 28 5.1b,4.9b
ISCJB IV 21 08 18 12.9–.52 38.32N–.02 142.16E–.02 28–3 5.3b,4.6s
IDC IV 21 08 18 12.8–6.0 38.28N 142.19E 19–38 5.2,5.2
MOS IV 21 08 18 12.8–1.3 38.28N 142.19E 33 5.6b,4.3s
JMA IV 21 08 18 13.0–.10 38.32N 142.23E 31–1 5.2,4.3s
GCMT IV 21 08 18 16.1–.20 38.38N 142.10E 25–0 5.0W,4.3s
NEIC IV 21 08 18 16.1–.39 38.33N 142.09E 40–3 5.3b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ39.00000°,λ-103.00000°. NP2:ϕ_s330.00000°,δ52.00000°,λ-80.00000°. $M_0$2.82000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=149.6.
IDC Error ellipse: s-maj=12.6km s-min=9.8km az=100.0.
MOS Error ellipse: s-maj=4.9km s-min=3.1km az=96.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c104; s102,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.80±.13 $M_{\theta\theta}$2.45±.09; $M_{\phi\phi}$2.34±.09; $M_{r\theta}$0.17±.17; $M_{\theta\phi}$-1.55±.06; $M_{\phi r}$-0.47±.19; Best double couple: NP1:ϕ_s316.00000°,δ48.00000°,λ-87.00000°. NP2:ϕ_s132.00000°,δ42.00000°,λ-93.00000°. Principal axes: T 3.9690,Plg3.0000°,Azm44.0000°; N 0.8530,Plg2.0000°,Azm134.0000°; P -4.8320,Plg86.0000°,Azm261.0000° $M_0$4.40000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=139.0. Recorded [4 JMA] in Miyagi.
JMA IV 21 10 15 42.6–.20 38.83N 142.66E 24–3 3.8
NIED IV 21 10 15 00 38.80N 142.70E 32 3.7W **¶600594882**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ7.00000°,λ-97.00000°. NP2:ϕ_s300.00000°,δ83.00000°,λ-89.00000°. $M_0$3.41000×10^{14}
ISC IV 21 10 18 11.3–1.6 37.19N–.05 141.51E–.07 33–9 3.7b 25 1-64
NIED IV 21 10 18 00 37.20N 141.40E 41 3.7W **¶17201707**
ISCJB IV 21 10 18 10.7–.94 37.21N–.04 141.52E–.09 46–9 3.6b
JMA IV 21 10 18 12.5–.10 37.22N 141.38E 48–1 3.6
IDC IV 21 10 18 13.2–2.0 37.24N 141.35E 47–20 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ7.00000°,λ35.00000°. NP2:ϕ_s46.00000°,δ86.00000°,λ96.00000°. $M_0$3.81000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.9km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=26.3km s-min=15.3km az=108.0.
ISC IV 21 11 32 14.0–1.8 38.86N–.06 141.9E–.10 46–10 3.6b 17 0-59
ISCJB IV 21 11 32 13.1–1.3 38.85N–.06 141.9E–.10 55–7 3.5b **¶17201711**
JMA IV 21 11 32 13.4–.10 38.81N 141.93E 50–1 3.6
IDC IV 21 11 32 15.6–1.9 39.41N 140.84E 0 3.6,3.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=20.0km s-min=7.6km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.4km s-min=25.3km az=87.0.
JMA IV 21 12 16 46.0–.10 36.38N 141.61E 26–3 3.2
¶600595006
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 21 13 37 03.1–.32 35.64N–.02 140.55E–.03 43–2 5.8s,5.8b 1897 0-166
MOS IV 21 13 36 59.9–1.1 35.63N 140.45E 34 6.0b,5.8s **¶16450819**
BJI IV 21 13 37 00.5 35.55N 140.55E 50 6.1s,6.0
NIED IV 21 13 37 00 35.60N 140.90E 44 6.1W,6.0
ISCJB IV 21 13 37 00.9–.35 35.60N–.02 140.43E–.01 35–3 5.8s,5.8b
JMA IV 21 13 37 02.1–.10 35.68N 140.69E 46–1 6.0,5.8b
NEIC IV 21 13 37 03.3–.12 35.58N 140.31E 43 6.2W,6.2W
NEIC IV 21 13 37 03.0–.00 35.62N 140.65E 42 6.2W,6.2W
GCMT IV 21 13 37 03.3–.10 35.56N 140.78E 42–0 6.2W,6.2W
IDC IV 21 13 37 03.9–.81 35.62N 140.50E 52–7 5.7s,5.7
NEIC IV 21 13 37 20.8–.00 35.82N 140.87E 45 5.7s,5.7
ISC Event type fe.
MOS Error ellipse: s-maj=7.2km s-min=4.3km az=104.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ26.00000°,λ121.00000°. NP2:ϕ_s0.00000°,δ68.00000°,λ76.00000°. $M_0$1.65000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=160.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s4.00000°,δ68.00000°,λ85.00000°. NP2: ϕ_s198.00000°,δ22.00000°,λ103.00000°. Principal axes: T Plg66.0000°,Azm265.0000°; N Plg5.0000°,Azm6.0000°; P Plg23.0000°,Azm98.0000°
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=146.0. Felt [IV] at Narita, Tokyo and Yokohama; [III] at Yokosuka. Felt widely in southeastern Honshu. Recorded [5L JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.90000×10^{18} Moment Tensor Solution. s84 Moment tensor: Scale 10^{18}Nm; M_{rr}1.08 $M_{\theta\theta}$0.15 $M_{\phi\phi}$-1.23 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.34 $M_{\phi r}$1.36 Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ84.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ92.00000°. Principal axes: T 1.7400,Plg65.0000°,Azm289.0000°; N 0.2200,Plg2.0000°,Azm195.0000°; P -1.9700,Plg25.0000°,Azm104.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s175.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s355.00000°,δ70.00000°,λ90.00000°. Principal axes: T Plg65.0000°,Azm265.0000°; N Plg0.0000°,Azm0.0000°; P Plg25.0000°,Azm85.0000°
NEIC Event type se. Moment Tensor Solution. s75 Moment tensor: Scale 10^{18}Nm; M_{rr}1.23 $M_{\theta\theta}$-0.17 $M_{\phi\phi}$-1.06 $M_{r\theta}$0.04 $M_{\theta\phi}$-0.03 $M_{\phi r}$1.93 Best double couple: NP1:ϕ_s1.00000°,δ75.00000°,λ90.00000°. NP2:ϕ_s182.00000°,δ15.00000°,λ91.00000°. Principal axes: T 2.3300,Plg60.0000°,Azm271.0000°; N -0.1700,Plg0.0000°,Azm1.0000°; P -2.1600,Plg29.0000°,Azm91.0000° $M_0$2.30000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c302; s135,c474;Duration: 3$0 Moment tensor: Scale 10^{18} Nm; M_{rr}1.81±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$-1.90±.01; $M_{r\theta}$-0.17±.01; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$1.42±.02; Best double couple: NP1:ϕ_s359.00000°,δ64.00000°,λ81.00000°. NP2:ϕ_s198.00000°,δ27.00000°,λ107.00000°. Principal axes: T 2.3210,Plg70.0000°,Azm251.0000° ; N 0.0800,Plg8.0000°,Azm262.0000°; P -2.3990,Plg18.0000°,Azm95.0000° $M_0$2.36000×10^{18}

IDC Error ellipse: s-maj=10.3km s-min=7.9km az=72.0.

NEIC Event type se. Moment Tensor Solution. s73 Moment tensor: Scale 10^{18}Nm; M_{rr}1.75 $M_{\theta\theta}$-0.11 $M_{\phi\phi}$-1.64 $M_{r\theta}$-0.01 $M_{\theta\phi}$-0.31 $M_{\phi r}$1.49 Best double couple: NP1:ϕ_s198.00000°,δ25.00000°,λ103.00000°. NP2:ϕ_s4.00000°,δ65.00000°,λ84.00000°. Principal axes: T 2.3200,Plg69.0000°,Azm262.0000°; N -0.0800,Plg5.0000°,Azm6.0000° ; P -2.2400,Plg20.0000°,Azm98.0000° $M_0$2.30000×10^{18}

ISC	**IV**	**21 13 47 11.3–.66**	**35.72N–.05**	**140.84E–.05**	**40–5**	**4.6b,4.5s**	**169**	**0-148**
BJI	IV	21 13 47 08.9	35.53N	140.89E	47	5.3b,5.3s		**¶16450820**
MOS	IV	21 13 47 09.6–1.3	35.77N	140.89E	42	4.8b,5.3s		
ISCJB	IV	21 13 47 10.5–.36	35.71N–.03	140.82E–.04	50–3	4.6s,4.6b		
NEIC	IV	21 13 47 11.2–.32	35.71N	140.70E	35	5.1b,4.6b		
JMA	IV	21 13 47 11.1–.10	35.67N	140.74E	45–1	4.3,4.6b		
IDC	IV	21 13 47 13.7–2.0	35.69N	140.63E	59–18	4.5,4.4		

ISC Event type se.

MOS Error ellipse: s-maj=8.5km s-min=5.5km az=101.3.

ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=28.3.

NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.7km az=139.0. Recorded [3 JMA] in Chiba.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s215.00000°,δ62.00000°,λ-134.00000°. NP2: ϕ_s100.00000°,δ50.00000°,λ-37.00000°. Principal axes: T Plg7.0000°,Azm335.0000° ; N Plg38.0000°,Azm239.0000°; P Plg51.0000°,Azm74.0000°

IDC Error ellipse: s-maj=14.4km s-min=10.2km az=96.0.

JMA	**IV**	**21 13 49 02.1–.10**	**39.28N**	**142.23E**	**43–1**	**4.2**	
							¶600595091

JMA Event type fe.

ISC	**IV**	**21 13 53 59.2–1.1**	**35.73N–.03**	**140.65E–.04**	**32–7**	**4.6b**	**166**	**0-148**
NIED	IV	21 13 53 00	35.70N	140.70E	29	4.6W		**¶16450821**
MOS	IV	21 13 53 56.5–.98	35.65N	140.79E	32	4.7b		
ISCJB	IV	21 13 53 57.0–.24	35.71N–.02	140.85E–.04	33	4.5b		
BJI	IV	21 13 53 59.6	35.60N	140.50E	53	5.3b,5.1s		
JMA	IV	21 13 53 59.9–.10	35.71N	140.72E	49–1	4.4,5.1s		
NEIC	IV	21 13 54 00.2–.70	35.63N	140.63E	44–6	4.8b,5.1s		
IDC	IV	21 13 54 01.5–1.6	35.66N	140.59E	54–14	4.3,4.3L		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ24.00000°,λ159.00000°. NP2:ϕ_s6.00000°,δ82.00000°,λ67.00000°. $M_0$8.05000×10^{15}

MOS Error ellipse: s-maj=9.5km s-min=5.5km az=106.0.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=10.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ61.00000°,λ83.00000°. NP2: ϕ_s205.00000°,δ29.00000°,λ102.00000°. Principal axes: T Plg73.0000°,Azm265.0000° ; N Plg6.0000°,Azm14.0000°; P Plg16.0000°,Azm106.0000°

NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.4km az=109.0. Recorded [3 JMA] in Chiba.

IDC Error ellipse: s-maj=15.1km s-min=8.5km az=90.0.

ISC	**IV**	**21 14 10 03.0–1.1**	**35.68N–.06**	**140.88E–.09**	**47–11**	**3.4b**	**19**	**0-59**
ISCJB	IV	21 14 10 01.2–.85	35.71N–.05	141.0E–.10	55–7	3.4b		**¶17201716**
IDC	IV	21 14 10 02.3–2.6	35.71N	140.95E	40–22	3.6,3.5		
JMA	IV	21 14 10 03.4–.10	35.65N	140.72E	47–1	3.1,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=7.1km az=162.2.

IDC Error ellipse: s-maj=34.7km s-min=13.2km az=85.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**21 14 24 38.7–.98**	**35.68N–.06**	**140.91E–.10**	**51–7**	**3.6b**	**21**	**0-75**
ISCJB	IV	21 14 24 37.3–.72	35.70N–.05	140.97E–.10	57–5	3.7b		**¶17201717**
IDC	IV	21 14 24 38.1–2.6	35.66N	140.97E	46–20	3.7,3.6		
JMA	IV	21 14 24 39.6–.10	35.66N	140.73E	45–1	3.2,3.6		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=7.1km az=163.3.

IDC Error ellipse: s-maj=39.2km s-min=12.7km az=85.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s27.00000°,δ78.00000°,λ92.00000°. NP2: ϕ_s198.00000°,δ12.00000°,λ81.00000°. Principal axes: T Plg57.0000°,Azm299.0000° ; N Plg2.0000°,Azm206.0000°; P Plg33.0000°,Azm115.0000°

ISC	**IV**	**21 14 28 51.5–2.1**	**37.28N–.06**	**141.89E–.07**	**15–12**	**3.5b**	**20**	**1-57**
ISCJB	IV	21 14 28 50.3–1.6	37.28N–.06	142.03E–.08	16–10	3.4b		**¶17201718**
JMA	IV	21 14 28 53.0–.20	37.26N	141.90E	38–4	3.9		
IDC	IV	21 14 28 54.7–4.6	37.25N	141.88E	38–41	3.4,3.3		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.9km az=41.8.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=41.5km s-min=22.7km az=118.0.

ISC	**IV**	**21 15 06 51.3–.54**	**35.64N–.04**	**140.76E–.05**	**46–4**	**4.5b,4.4s**	**218**	**0-148**
NIED	IV	21 15 06 00	35.70N	140.80E	50	4.6W,4.4s		**¶16451852**
BJI	IV	21 15 06 47.9	35.59N	140.76E	40	4.9b,4.7b		
MOS	IV	21 15 06 48.2–.98	35.57N	140.81E	35	4.8b,4.7b		
NEIC	IV	21 15 06 51.0–.48	35.55N	140.70E	42–4	4.7b,4.7b		
ISCJB	IV	21 15 06 50.6–.33	35.59N–.03	140.74E–.04	55–2	4.5b,4.3s		
JMA	IV	21 15 06 51.4–.10	35.68N	140.74E	47–1	4.4,4.3s		
IDC	IV	21 15 06 52.3–1.7	35.57N	140.65E	51–15	4.3,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ26.00000°,λ107.00000°. NP2:ϕ_s356.00000°,δ65.00000°,λ82.00000°. $M_0$1.01000×10^{16}

MOS Error ellipse: s-maj=8.7km s-min=5.4km az=107.4.

NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=114.0. Recorded [2 JMA] in Chiba and Ibaraki.

ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.3km az=16.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s3.00000°,δ68.00000°,λ86.00000°. NP2: ϕ_s193.00000°,δ22.00000°,λ99.00000°. Principal axes: T Plg67.0000°,Azm266.0000° ; N Plg4.0000°,Azm4.0000°; P Plg23.0000°,Azm96.0000°

IDC Error ellipse: s-maj=13.6km s-min=10.7km az=103.0.

ISC	**IV**	**21 15 20 42.2–1.2**	**35.73N–.05**	**140.74E–.08**	**48–9**		**15**	**0-59**
IDC	IV	21 15 20 34.4–5.1	35.87N	141.22E	0	3.4,3.2b		**¶17201723**
ISCJB	IV	21 15 20 41.1–.89	35.74N–.06	140.8E–.10	57–6	3.3b,3.2b		
JMA	IV	21 15 20 41.5–.20	35.73N	140.70E	50–2	2.7,3.2b		

ISC Event type ke.

IDC Error ellipse: s-maj=119.9km s-min=35.6km az=44.0.

ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=10.0km az=164.9.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**21 16 10 04.8–.10**	**39.00N**	**142.37E**	**37–2**	**2.6**	
							¶602557857

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**21 16 11 17.0–.32**	**37.53N–.03**	**141.36E–.03**	**47–2**	**5.6b,5.2s**	**1664**	**0-161**
NIED	IV	21 16 11 00	37.50N	141.50E	53	5.6W,5.2s		**¶602557845**
BJI	IV	21 16 11 12.7	37.42N	141.50E	38	5.5b,5.4b		
MOS	IV	21 16 11 14.1–.92	37.56N	141.34E	33	5.8b,5.2s		
ISCJB	IV	21 16 11 16.7–.27	37.57N–.02	141.29E–.02	52–2	5.6b,5.2s		
JMA	IV	21 16 11 16.9–.10	37.51N	141.45E	48–1	5.6,5.2s		
IDC	IV	21 16 11 17.9–.45	37.54N	141.32E	53–4	5.4,5.2		
GCMT	IV	21 16 11 18.5–.10	37.55N	141.49E	54–0	5.6W,5.2		
NEIC	IV	21 16 11 18.0–.00	37.55N	141.22E	56	5.6W,5.2		
NEIC	IV	21 16 11 18.4–.40	37.55N	141.22E	56–3	5.7W,5.6W		

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ24.00000°,λ72.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ98.00000°. $M_0$2.68000×10^{17}

MOS Error ellipse: s-maj=6.0km s-min=3.7km az=98.5.

ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=155.8.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s33.00000°,δ56.00000°,λ98.00000°. NP2:ϕ_s198.00000°,δ35.00000°,λ78.00000°. Principal axes: T Plg77.0000°,Azm330.0000°; N Plg7.0000°,Azm208.0000°; P Plg11.0000° ,Azm117.0000°

IDC Error ellipse: s-maj=10.1km s-min=8.3km az=112.0.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s111,c214; s126,c286;Duration: 1$6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.74±.04 $M_{\theta\theta}$-0.30±.03; $M_{\phi\phi}$-2.43±.03; $M_{r\theta}$0.78±.03; $M_{\theta\phi}$-0.85±.03; $M_{\phi r}$1.88±.03; Best double couple: NP1:ϕ_s21.00000° ,δ63.00000°,λ92.00000°. NP2:ϕ_s198.00000°,δ27.00000°,λ87.00000°. Principal axes: T 3.4150,Plg72.0000°,Azm295.0000°; N -0.0070,Plg1.0000°,Azm200.0000° ; P -3.4000,Plg18.0000°,Azm110.0000° $M_0$3.40800×10^{17}

NEIC Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}1.37 $M_{\theta\theta}$-0.45 $M_{\phi\phi}$-0.92 $M_{r\theta}$1.51 $M_{\theta\phi}$-1.02 $M_{\phi r}$1.82 Best double couple: NP1:ϕ_s40.00000° ,δ73.00000°,λ91.00000°. NP2:ϕ_s217.00000°,δ17.00000°,λ87.00000°. Principal axes: T 2.6500,Plg61.0000°,Azm310.0000°; N 0.3600,Plg0.0000°,Azm219.0000° ; P -3.0100,Plg28.0000°,Azm128.0000° $M_0$2.80000×10^{17}

NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=138.0. Felt at Ichinoseki, Sakado, Sendai, Tokyo and Yokohama. Recorded [4 JMA] in Fukushima and Miyagi. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}3.75 $M_{\theta\theta}$-0.56 $M_{\phi\phi}$-3.19 $M_{r\theta}$0.82 $M_{\theta\phi}$-0.93 $M_{\phi r}$2.07 Best double couple: NP1:ϕ_s196.00000°,δ29.00000°,λ87.00000°. NP2:ϕ_s20.00000° ,δ61.00000°,λ92.00000°. Principal axes: T 4.3800,Plg74.0000°,Azm294.0000° ; N -0.2700,Plg2.0000°,Azm199.0000°; P -4.1100,Plg16.0000°,Azm108.0000° $M_0$4.30000×10^{17}

JMA	**IV**	**21 16 15 16.6**	**36.96N**	**140.58E**	**8–1**	**4.3**	
							¶600595262

JMA Event type fe.

ISC	**IV**	**21 17 28 38.8–1.5**	**39.67N–.05**	**142.1E–.10**	**48–9**		**20**	**0-43**
ISCJB	IV	21 17 28 38.2–1.0	39.70N–.04	142.1E–.10	53–6	3.5b		**¶17201728**
JMA	IV	21 17 28 38.8–.10	39.68N	142.13E	48–1	3.5		
IDC	IV	21 17 28 40.7–3.5	40.19N	140.92E	0	3.6b,3.5		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=7.1km az=6.5.

JMA Event type fe.

IDC Error ellipse: s-maj=71.5km s-min=32.1km az=111.0.

ISC	**IV**	**21 20 28 40.8–.81**	**36.60N–.04**	**141.59E–.05**	**15–4**	**4.4b,3.8s**	**136**	**1-147**
NIED	IV	21 20 28 00	36.60N	141.40E	35	4.5W,3.8s		**¶16456410**
BJI	IV	21 20 28 38.6	36.63N	141.28E	6	4.8b,4.7b		
ISCJB	IV	21 20 28 39.2–.92	36.59N–.03	141.71E–.04	20–6	4.4b,3.7s		
MOS	IV	21 20 28 41.5–1.4	36.66N	141.68E	35	4.6b,3.7s		
NEIC	IV	21 20 28 43.4–2.0	36.57N	141.56E	34–14	4.6b,3.7s		
JMA	IV	21 20 28 43.3–.10	36.61N	141.41E	46–2	4.5,3.7s		
IDC	IV	21 20 28 44.1–2.4	36.58N	141.50E	38–21	4.3,4.2		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ11.00000°,λ89.00000°. NP2:ϕ_s4.00000°,δ79.00000°,λ90.00000°. $M_0$7.47000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=36.1.

MOS Error ellipse: s-maj=8.3km s-min=5.6km az=98.9.

NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=130.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=14.8km s-min=12.0km az=106.0.

ISC	**IV**	**21 20 55 09.1–1.5**	**38.25N–.06**	**142.04E–.10**	**57–12**	**3.9b**	**34**	**1-68**
NIED	IV	21 20 55 00	38.30N	141.90E	53	4.1W		**¶600595503**
ISCJB	IV	21 20 55 08.6–.92	38.26N–.04	141.99E–.10	68–6	3.8b		
IDC	IV	21 20 55 08.9–2.6	38.30N	142.20E	62–23	3.8,3.6		
JMA	IV	21 20 55 10.3–.10	38.27N	141.87E	64–1	3.8,3.6		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ39.00000°,λ-178.00000°. NP2:ϕ_s10.00000°,δ89.00000°,λ-51.00000°. $M_0$1.37000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=5.8km az=19.5.

IDC Error ellipse: s-maj=30.6km s-min=15.1km az=87.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**21 21 22 19.9–.96**	**36.71N–.04**	**140.62E–.06**	**9–6**	**3.6b**	**30**	**0-91**
ISCJB	IV	21 21 22 18.4–.81	36.66N–.04	140.77E–.05	12–4	3.5b		**¶17201745**
IDC	IV	21 21 22 18.4–.81	36.71N	140.67E	0	3.8,3.6		
JMA	IV	21 21 22 20.1	36.71N	140.65E	5–1	3.4,3.6		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.2km az=37.5.

IDC Error ellipse: s-maj=19.9km s-min=18.5km az=154.0.

JMA Event type fe.

ISC	**IV**	**21 21 28 45.3–1.4**	**36.72N–.05**	**140.72E–.06**	**5–9**	**3.7b**	**29**	**0-83**
NIED	IV	21 21 28 00	36.70N	140.60E	5	3.5W		**¶17201748**
IDC	IV	21 21 28 43.9–1.3	36.74N	140.89E	0	3.8,3.7		
ISCJB	IV	21 21 28 44.7–.88	36.66N–.03	140.78E–.05	12–4	3.7b,3.7		
JMA	IV	21 21 28 46.3	36.71N	140.65E	5–1	3.6,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ26.00000°,λ-89.00000°. NP2:ϕ_s117.00000°,δ64.00000°,λ-90.00000°. $M_0$2.02000×10^{14}

IDC Error ellipse: s-maj=40.6km s-min=20.7km az=70.0.

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=24.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s282.00000°,δ54.00000°,λ-99.00000°. NP2:ϕ_s116.00000°,δ37.00000°,λ-78.00000°. Principal axes: T Plg8.0000°,Azm18.0000°; N Plg7.0000°,Azm287.0000°; P Plg79.0000° ,Azm157.0000°

ISC	**IV**	**21 21 33 43.1–1.1**	**36.72N–.05**	**140.52E–.06**	**6–9**	**3.6b**	**14**	**0-84**
IDC	IV	21 21 33 41.4–1.4	36.64N	140.69E	0	3.7,3.7		**¶17201749**
JMA	IV	21 21 33 43.3	36.71N	140.65E	5–1	3.3,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=31.9km s-min=20.8km az=65.0.

JMA Event type fe.

JMA	**IV**	**21 21 35 55.1–.30**	**35.95N**	**141.16E**	**19–4**	**2.9**	
							¶600595536

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**21 22 41 28.1–1.5**	**35.69N–.05**	**141.0E–.10**	**33**		**14**	**0-45**
IDC	IV	21 22 41 21.6–5.2	35.73N	141.36E	0	3.4,3.4b		**¶17201755**
ISCJB	IV	21 22 41 28.0–1.2	35.68N–.05	140.9E–.10	33	3.1b,3.4b		
JMA	IV	21 22 41 29.9–.10	35.70N	140.69E	43–1	2.8,3.4b		

ISC Event type ke.

IDC Error ellipse: s-maj=97.5km s-min=36.3km az=83.0.

ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=6.5km az=164.2.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**21 22 55 43.2–1.6**	**37.16N–.07**	**141.4E–.10**	**35**	**3.5b**	**18**	**0-61**
ISCJB	IV	21 22 55 40.4–1.2	37.07N–.07	141.61E–.09	35	3.5b		**¶17201756**
IDC	IV	21 22 55 47.3–5.3	37.24N	141.30E	87–43	3.4,3.3		
JMA	IV	21 22 55 48.4	37.15N	140.86E	7–1	2.8,3.3		

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=9.5km az=8.8.

IDC Error ellipse: s-maj=46.3km s-min=23.9km az=83.0.

JMA Event type fe.

ISC	**IV**	**21 23 00 57.3–.83**	**35.80N–.07**	**141.37E–.08**	**26**	**3.6b**	**18**	**0-91**
IDC	IV	21 23 00 53.4–.97	35.77N	141.51E	0	3.8,3.6		**¶17201757**
ISCJB	IV	21 23 00 55.6–.68	35.75N–.06	141.47E–.08	26	3.5b,3.6		
JMA	IV	21 23 00 56.4–.20	35.74N	141.40E	30–2	3.3,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=23.7km s-min=20.8km az=116.0.

ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.7km az=42.1.

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**IV**	**22 00 28 55.4–1.8**	**35.7N–.20**	**141.3E–.10**	**25**	**3.4b**	**6**	**0-56**
IDC	IV	22 00 28 51.6–3.1	35.69N	141.36E	0	3.5,3.4b		**¶17201762**
ISCJB	IV	22 00 28 53.1–1.5	35.7N–.20	141.4E–.10	25	3.4b,3.4b		
JMA	IV	22 00 28 54.9–.30	35.86N	141.28E	25–3	3.1,3.4b		

ISC Event type ke.

IDC Error ellipse: s-maj=96.0km s-min=28.4km az=60.0.

ISCJB Event type ke. Error ellipse: s-maj=31.2km s-min=14.6km az=10.2.

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

JMA	**IV**	**22 00 46 18.6–.20**	**38.04N**	**141.98E**	**44–2**	**3.5**	
NIED	IV	22 00 46 00	38.00N	142.00E	62	4.2W	**¶600595692**

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ6.00000°,λ-39.00000°. NP2:ϕ_s163.00000°,δ86.00000°,λ-95.00000°. $M_0$1.91000×10^{15}

ISC	**IV**	**22 01 17 31.1–.81**	**36.46N–.05**	**140.69E–.07**	**56–6**	**4.1b,3.3s**	**47**	**0-91**
NIED	IV	22 01 17 00	36.50N	140.60E	59	4.3W,3.3s		**¶600595705**
ISCJB	IV	22 01 17 29.8–.53	36.42N–.04	140.72E–.07	62–3	4.0b,3.3s		
JMA	IV	22 01 17 31.4–.10	36.45N	140.60E	56–1	4.1,3.3s		
IDC	IV	22 01 17 32.4–1.8	36.39N	140.50E	68–16	4.0,3.9		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ21.00000°,λ72.00000°. NP2:ϕ_s18.00000°,δ70.00000°,λ97.00000°. $M_0$3.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=12.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s12.00000°,δ64.00000°,λ96.00000°. NP2:ϕ_s179.00000°,δ26.00000°,λ78.00000°. Principal axes: T Plg70.0000°,Azm294.0000°; N Plg5.0000°,Azm190.0000°; P Plg19.0000° ,Azm98.0000°
IDC Error ellipse: s-maj=19.0km s-min=10.2km az=77.0.

ISC	**IV**	**22 01 58 59.7–1.5**	**35.96N–.07**	**141.0E–.10**	**31**		**12**	**0-44**
IDC	IV	22 01 58 53.0–10	36.02N	141.36E	0	3.6,3.6b		**¶17201770**
ISCJB	IV	22 01 58 59.7–1.2	35.98N–.06	140.9E–.10	31	3.3b,3.6b		
JMA	IV	22 01 59 00.2–.10	35.90N	140.83E	41–1	2.9,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=195.3km s-min=87.5km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=7.0km az=159.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**22 03 12 54.5–.75**	**38.53N–.04**	**141.91E–.04**	**48–6**	**4.6b,3.7s**	**269**	**0-146**
NIED	IV	22 03 12 00	38.50N	141.80E	50	4.4W,3.7s		**¶16451681**
BJI	IV	22 03 12 48.7	38.49N	142.17E	32	4.8b,4.8b		
MOS	IV	22 03 12 51.8–.86	38.50N	141.77E	36	4.8b,4.8b		
ISCJB	IV	22 03 12 53.7–.43	38.55N–.03	141.88E–.04	52–3	4.5b,3.6s		
NEIC	IV	22 03 12 54.2–.38	38.50N	141.76E	41–3	4.7b,3.6s		
JMA	IV	22 03 12 55.3–.10	38.53N	141.81E	50–1	4.4,3.6s		
IDC	IV	22 03 12 56.9–1.8	38.52N	141.75E	65–15	4.4,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ18.00000°,λ85.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ91.00000°. $M_0$4.56000×10^{15}
MOS Error ellipse: s-maj=9.8km s-min=5.1km az=106.6.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=31.8.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=10.4km az=116.0.

ISC	**IV**	**22 03 17 49.8–1.1**	**36.96N–.03**	**140.57E–.04**	**5–7**	**3.6b**	**32**	**0-147**
NIED	IV	22 03 17 00	37.00N	140.60E	5	3.8W		**¶17201778**
IDC	IV	22 03 17 48.8–.73	36.85N	140.53E	0	4.0,3.7		
ISCJB	IV	22 03 17 49.5–.54	36.94N–.03	140.64E–.05	13–4	3.7b,3.7		
JMA	IV	22 03 17 49.8	36.96N	140.59E	7–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ30.00000°,λ-134.00000°. NP2:ϕ_s262.00000°,δ69.00000°,λ-68.00000°. $M_0$4.86000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=18.1km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=24.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s29.00000°,δ49.00000°,λ-111.00000°. NP2:ϕ_s240.00000°,δ45.00000°,λ-67.00000°. Principal axes: T Plg2.0000°,Azm134.0000°; N Plg16.0000°,Azm43.0000°; P Plg74.0000° ,Azm231.0000°

ISC	**IV**	**22 03 37 42.0–1.2**	**38.34N–.04**	**141.78E–.09**	**49–10**	**3.5b**	**34**	**0-146**
NIED	IV	22 03 37 00	38.40N	141.60E	35	3.7W		**¶17201783**
ISCJB	IV	22 03 37 41.8–.70	38.36N–.04	141.70E–.08	61–6	3.5b		
JMA	IV	22 03 37 42.8	38.38N	141.65E	56–1	3.8		
IDC	IV	22 03 37 42.8–3.8	38.28N	141.81E	57–36	3.5,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ44.00000°,λ-32.00000°. NP2:ϕ_s47.00000°,δ68.00000°,λ-129.00000°. $M_0$4.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.5km az=16.4.
JMA Event type fe.
IDC Error ellipse: s-maj=28.9km s-min=19.2km az=103.0.

ISC	**IV**	**22 04 42 47.7–1.5**	**35.71N–.06**	**141.00E–.09**	**12–7**	**3.3b**	**16**	**0-59**
NIED	IV	22 04 42 00	35.70N	140.90E	8	3.8W		**¶17201786**
ISCJB	IV	22 04 42 45.0–2.2	35.76N–.06	141.18E–.10	4–11	3.3b		
IDC	IV	22 04 42 45.9–4.1	35.72N	141.05E	0	3.5,3.4b		
JMA	IV	22 04 42 48.7–.20	35.71N	140.95E	10–1	3.8,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ34.00000°,λ-82.00000°. NP2:ϕ_s163.00000°,δ57.00000°,λ-95.00000°. $M_0$5.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=7.4km az=147.1.
IDC Error ellipse: s-maj=123.9km s-min=25.9km az=55.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**22 06 06 20.0–2.2**	**39.12N–.08**	**142.9E–.10**	**16**	**3.6b**	**15**	**1-59**
NIED	IV	22 06 06 00	39.10N	142.90E	14	3.6W		**¶17201790**
JMA	IV	22 06 06 20.2–.30	39.09N	142.89E	9–3	3.6		
IDC	IV	22 06 06 25.3–1.4	39.63N	141.91E	0	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ22.00000°,λ113.00000°. NP2:ϕ_s53.00000°,δ70.00000°,λ81.00000°. $M_0$3.30000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=32.8km s-min=26.6km az=98.0.

ISC	**IV**	**22 06 35 22.8–.80**	**35.47N–.04**	**140.10E–.04**	**26–5**	**4.1b**	**52**	**0-148**
NIED	IV	22 06 35 00	35.50N	140.20E	26	4.1W		**¶602557860**
IDC	IV	22 06 35 18.8–.63	35.37N	140.09E	0	4.0,3.9		
ISCJB	IV	22 06 35 22.6–.33	35.41N–.03	140.13E–.05	37–3	4.0b,3.9		
JMA	IV	22 06 35 22.7–.10	35.50N	140.14E	24–2	4.1,3.9		
NEIC	IV	22 06 35 25.0–.61	35.31N	140.04E	44–6	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ64.00000°,λ156.00000°. NP2:ϕ_s9.00000°,δ69.00000°,λ28.00000°. $M_0$1.34000×10^{15}
IDC Error ellipse: s-maj=19.8km s-min=12.9km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=151.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s198.00000°,δ87.00000°,λ-24.00000°. NP2: ϕ_s289.00000°,δ66.00000°,λ-177.00000°. Principal axes: T Plg15.0000°,Azm246.0000° ; N Plg65.0000°,Azm12.0000°; P Plg19.0000°,Azm151.0000°
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.6km az=86.0. Recorded [3 JMA] in Chiba.

ISC	**IV**	**22 06 55 03.1–1.2**	**35.54N–.07**	**141.2E–.10**	**25**	**3.5b**	**11**	**0-65**
IDC	IV	22 06 54 59.6–1.4	35.48N	141.06E	0	3.6,3.5		**¶17201796**
ISCJB	IV	22 06 55 01.8–1.1	35.55N–.07	141.28E–.10	25	3.4b,3.4s		
JMA	IV	22 06 55 04.1–.10	35.61N	141.07E	31–1	2.7,3.4s		

ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=32.7km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=9.4km az=141.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**22 08 42 40.6–1.5**	**37.38N–.04**	**141.88E–.05**	**11–9**	**4.1b,3.3s**	**91**	**1-90**
NIED	IV	22 08 42 00	37.40N	141.80E	17	3.8W,3.3s		**¶16452795**
BJI	IV	22 08 42 35.0	37.04N	142.36E	13	4.7b,4.6b		
IDC	IV	22 08 42 39.5–.71	37.34N	141.78E	0	4.0,4.0L		
ISCJB	IV	22 08 42 40.5–1.0	37.34N–.03	141.90E–.06	22–6	4.2b,3.2s		
NEIC	IV	22 08 42 40.8–2.3	37.28N	141.90E	12–14	4.6b,3.2s		
MOS	IV	22 08 42 42.6–1.2	37.41N	141.79E	33	4.3b,3.2s		
JMA	IV	22 08 42 43.6–.20	37.40N	141.77E	31–3	4.1,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ48.00000°,λ178.00000°. NP2:ϕ_s212.00000°,δ89.00000°,λ42.00000°. $M_0$6.04000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=13.8km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.6km az=25.6.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.1km az=125.0.
MOS Error ellipse: s-maj=13.2km s-min=7.4km az=83.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**22 08 52 01.2–2.8**	**38.38N–.05**	**142.2E–.10**	**11–17**		**16**	**1-58**
ISCJB	IV	22 08 52 02.5–1.7	38.38N–.06	142.2E–.10	28–9	3.4b		**¶17201800**
JMA	IV	22 08 52 03.8–.10	38.40N	142.17E	34–1	3.8		
IDC	IV	22 08 52 03.1–2.5	37.77N	142.66E	0	3.5,3.4b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=9.5km az=2.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.5km s-min=37.2km az=50.0.

ISC	**IV**	**22 09 26 51.6–1.9**	**37.42N–.04**	**141.76E–.06**	**6–11**	**3.7b**	**36**	**1-90**
NIED	IV	22 09 26 00	37.40N	141.70E	32	3.6W		**¶16505486**
IDC	IV	22 09 26 50.9–.95	37.42N	141.75E	0	3.8,3.7		
JMA	IV	22 09 26 54.0–.10	37.44N	141.67E	30–2	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ45.00000°,λ163.00000°. NP2:ϕ_s66.00000°,δ78.00000°,λ46.00000°. $M_0$2.44000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=18.6km az=139.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**22 10 00 24.1–1.2**	**36.83N–.03**	**140.51E–.05**	**2–13**		**15**	**0-60**
ISCJB	IV	22 10 00 23.9–.57	36.82N–.03	140.55E–.06	4–7	3.5b,3.3s		**¶17201802**
JMA	IV	22 10 00 24.2	36.81N	140.57E	6–1	2.6,3.3s		
IDC	IV	22 10 00 26.2–2.6	36.77N	140.38E	0	3.7,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.3km az=18.1.
IDC Error ellipse: s-maj=42.2km s-min=27.0km az=38.0.

JMA	**IV**	**22 11 49 50.2–.10**	**36.95N**	**141.12E**	**49–1**	**3.0**		
								¶600596098

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**22 12 38 33.1–2.1**	**36.91N–.09**	**140.58E–.05**	**0–22**		**15**	**0-61**
ISCJB	IV	22 12 38 33.8–.79	36.95N–.05	140.71E–.06	17–8	3.4b		**¶17201813**
JMA	IV	22 12 38 34.3	36.97N	140.60E	6–1	3.3		
IDC	IV	22 12 38 34.4–2.8	36.72N	140.64E	0	3.6,3.3		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=7.4km az=145.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s66.00000°,δ53.00000°,λ-105.00000°. NP2:ϕ_s271.00000°,δ39.00000°,λ-71.00000°. Principal axes: T Plg7.0000°,Azm167.0000°; N Plg12.0000°,Azm76.0000°; P Plg76.0000° ,Azm287.0000°
IDC Error ellipse: s-maj=49.7km s-min=28.2km az=31.0.

ISC	**IV**	**22 12 42 24.9–.95**	**35.79N–.08**	**141.43E–.07**	**26**	**3.5b**	**18**	**0-70**
IDC	IV	22 12 42 20.7–1.0	35.63N	141.51E	0	3.6,3.5		**¶17201814**
ISCJB	IV	22 12 42 23.1–.74	35.74N–.07	141.50E–.06	26	3.5b,3.5		
JMA	IV	22 12 42 23.9–.20	35.77N	141.43E	20–3	3.2,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=23.1km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.3km az=18.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**22 13 23 56.6–1.2**	**35.59N–.05**	**140.80E–.09**	**45–11**	**3.5b**	**18**	**0-59**
NIED	IV	22 13 23 00	35.60N	140.60E	59	3.9W		**¶17201816**
IDC	IV	22 13 23 48.9–2.2	35.75N	141.15E	0	4.0L,3.7		
ISCJB	IV	22 13 23 55.6–.77	35.60N–.05	140.82E–.09	57–5	3.5b,3.7		
JMA	IV	22 13 23 57.0–.10	35.64N	140.65E	47–1	3.1,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ15.00000°,λ98.00000°. NP2:ϕ_s17.00000°,δ75.00000°,λ88.00000°. $M_0$7.57000×10^{14}
IDC Error ellipse: s-maj=61.4km s-min=19.4km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=7.2km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**22 13 48 08.7–.10**	**38.41N**	**142.14E**	**37–1**	**3.5**		
								¶600596238

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**22 15 25 17.5–.40**	**37.21N–.03**	**141.05E–.03**	**25–2**	**5.5b,4.6s**	**1513**	**0-161**
NIED	IV	22 15 25 00	37.20N	141.30E	11	5.1W,4.6s		**¶16451861**
IDC	IV	22 15 25 13.8–.32	37.17N	141.12E	0	5.2,5.2		
BJI	IV	22 15 25 15.3	37.10N	141.21E	36	5.1b,5.1s		
ISCJB	IV	22 15 25 16.9–.35	37.20N–.02	141.00E–.02	28–2	5.4b,4.6s		
JMA	IV	22 15 25 16.1–.10	37.17N	141.19E	21–1	5.4,4.6s		
NEIC	IV	22 15 25 17.8–1.1	37.23N	140.99E	24–7	5.5b,4.5s		
GCMT	IV	22 15 25 17.8–.20	37.24N	141.16E	16–0	5.2W,4.5s		
MOS	IV	22 15 25 19.5–.87	37.64N	140.96E	33	5.7b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ43.00000°,λ-96.00000°. NP2:ϕ_s231.00000°,δ47.00000°,λ-85.00000°. $M_0$4.30000×10^{16}
IDC Error ellipse: s-maj=9.8km s-min=8.0km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=160.7.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s14.00000° ,δ63.00000°,λ-106.00000°. NP2:ϕ_s225.00000°,δ31.00000°,λ-62.00000°. Principal axes: T Plg17.0000°,Azm115.0000°; N Plg14.0000°,Azm21.0000°; P Plg68.0000°,Azm253.0000°
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=149.0. Recorded [5L JMA] in Fukushima.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c113; s107,c193; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.94±.18 $M_{\theta\theta}$3.78±.12; $M_{\phi\phi}$3.17±.12; $M_{r\theta}$-0.55±.30; $M_{\theta\phi}$2.84±.07; $M_{\theta r}$0.86±.32; Best double couple: NP1:ϕ_s221.00000°,δ46.00000° ,λ-100.00000°. NP2:ϕ_s55.00000°,δ45.00000°,λ-79.00000°. Principal axes: T 6.3330,Plg1.0000°,Azm318.0000°; N 0.7500,Plg7.0000°,Azm228.0000° ; P -7.0740,Plg83.0000°,Azm54.0000° $M_0$6.70400×10^{16}
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=101.1.

ISC	**IV**	**22 15 58 15.4–.99**	**36.96N–.05**	**141.09E–.08**	**47–8**	**3.7b**	**33**	**0-90**
NIED	IV	22 15 58 00	36.90N	141.10E	44	3.9W		**¶17201829**
ISCJB	IV	22 15 58 14.7–.57	36.95N–.05	141.06E–.08	57–4	3.8b,3.3s		
JMA	IV	22 15 58 15.6–.10	36.95N	141.08E	49–1	3.7,3.3s		
IDC	IV	22 15 58 18.8–1.9	36.86N	140.97E	83–20	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ20.00000°,λ105.00000°. NP2:ϕ_s32.00000°,δ71.00000°,λ85.00000°. $M_0$9.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=6.4km az=25.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=12.0km az=52.0.

ISC	**IV**	**22 18 06 10.7–1.2**	**36.03N–.04**	**141.51E–.05**	**25–8**	**4.2b,4.1s**	**109**	**1-82**
NIED	IV	22 18 06 00	36.00N	141.40E	23	4.0W,4.1s		**¶16476057**
MOS	IV	22 18 06 09.1–1.0	36.07N	141.67E	33	4.4b,4.1s		
ISCJB	IV	22 18 06 09.8–.59	36.05N–.03	141.55E–.05	36–4	4.1b,4.1s		
NEIC	IV	22 18 06 11.3–.70	36.05N	141.61E	36–6	4.4b,4.1s		
JMA	IV	22 18 06 11.5–.10	36.04N	141.40E	46–2	3.7,4.1s		
IDC	IV	22 18 06 13.1–2.0	36.01N	141.43E	44–17	3.9,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ25.00000°,λ-177.00000°. NP2:ϕ_s359.00000°,δ89.00000°,λ-65.00000°. $M_0$1.28000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=7.0km az=107.9.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=10.5.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.9km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=14.3km az=98.0.

ISC	**IV**	**22 19 54 17.3–1.9**	**36.82N–.04**	**141.25E–.07**	**2–12**	**3.4b**	**24**	**0-57**
ISCJB	IV	22 19 54 16.9–1.4	36.82N–.05	141.41E–.08	15–8	3.3b		**¶17201836**
JMA	IV	22 19 54 19.9–.10	36.84N	141.18E	37–1	3.4		
IDC	IV	22 19 54 24.5–3.0	37.09N	140.96E	42–26	3.5,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.5km az=25.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=40.4km s-min=22.2km az=82.0.

JMA	**IV**	**22 22 07 37.6–.30**	**38.79N**	**142.57E**	**24–4**	**3.6**		
								¶600596711

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**IV**	**22 22 23 33.3–.20**	**37.12N**	**141.65E**	**43–2**	**3.5**		
NIED	IV	22 22 23 00	37.10N	141.60E	35	3.4W		**¶600596721**

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ26.00000°,λ43.00000°. NP2:ϕ_s37.00000°,δ72.00000°,λ110.00000°. $M_0$1.53000×10^{14}

ISC	**IV**	**22 23 02 56.3–1.4**	**36.38N–.03**	**141.01E–.06**	**23–11**	**3.6b**	**22**	**0-60**
ISCJB	IV	22 23 02 55.6–.88	36.34N–.03	141.12E–.07	30–5	3.5b		**¶17201842**
JMA	IV	22 23 02 57.2–.10	36.32N	140.98E	42–1	3.6		
IDC	IV	22 23 02 58.4–5.7	36.32N	141.14E	42–45	3.4,3.4		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.4km az=176.1.
JMA Event type fe.
IDC Error ellipse: s-maj=48.5km s-min=11.5km az=60.0.

ISC	**IV**	**22 23 15 26.7–.87**	**36.70N–.03**	**140.56E–.05**	**10–5**	**4.3b**	**64**	**0-97**
NIED	IV	22 23 15 00	36.70N	140.70E	5	4.1W		**¶602557859**
ISCJB	IV	22 23 15 25.9–.58	36.67N–.03	140.70E–.05	17–3	4.2b,2.5s		
JMA	IV	22 23 15 26.8	36.71N	140.64E	5–1	4.5,2.5s		
NEIC	IV	22 23 15 30.4–.60	36.68N	140.58E	36–5	4.3b,2.5s		
IDC	IV	22 23 15 30.9–2.1	36.69N	140.51E	40–19	4.3,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s88.00000°,δ28.00000°,λ-83.00000°. NP2:ϕ_s259.00000°,δ62.00000°,λ-94.00000°. $M_0$1.34000×10^{15}

ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=28.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s288.00000°,δ58.00000°,λ-112.00000°. NP2:ϕ_s144.00000°,δ38.00000°,λ-60.00000°. Principal axes: T Plg10.0000°,Azm33.0000°; N Plg18.0000°,Azm300.0000°; P Plg69.0000° ,Azm151.0000°
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.2km az=130.0. Recorded [4 JMA] in Ibaraki.
IDC Error ellipse: s-maj=14.2km s-min=12.6km az=93.0.

JMA	**IV**	**22 23 15 52.5**	**36.71N**	**140.64E**	**4–1**	**3.9**			**¶602557877**
ISC	**IV**	**22 23 56 31.6–1.6**	**35.96N–.06**	**141.1E–.10**	**31**	**3.4b**	**11**	**0-60**	
IDC	IV	22 23 56 26.6–3.0	35.93N	141.16E	0	3.6,3.5b			**¶17201843**
ISCJB	IV	22 23 56 30.3–1.5	36.05N–.07	141.2E–.10	31	3.4b,3.1s			
JMA	IV	22 23 56 33.3–.10	35.89N	140.84E	41–1	3.0,3.1s			

ISC Event type ke.
IDC Error ellipse: s-maj=79.8km s-min=25.9km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=9.6km az=160.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**23 00 29 02.0–1.8**	**38.83N–.04**	**142.43E–.08**	**25–13**	**3.6b**	**28**	**1-63**	
NIED	IV	23 00 29 00	38.90N	142.40E	20	3.6W			**¶17201845**
ISCJB	IV	23 00 29 02.2–1.3	38.86N–.04	142.50E–.08	29–7	3.5b			
JMA	IV	23 00 29 04.4–.10	38.89N	142.36E	43–2	3.7			
IDC	IV	23 00 29 08.9–3.8	38.80N	142.24E	88–36	3.5,3.4			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ11.00000°,λ114.00000°. NP2:ϕ_s142.00000°,δ80.00000°,λ85.00000°. $M_0$3.09000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.0km az=18.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=38.8km s-min=17.4km az=108.0.

ISC	**IV**	**23 01 53 37.1–1.6**	**36.48N–.04**	**141.29E–.07**	**26–11**	**3.7b**	**30**	**1-147**	
NIED	IV	23 01 53 00	36.50N	141.30E	32	3.7W			**¶600596877**
ISCJB	IV	23 01 53 36.6–1.1	36.46N–.04	141.36E–.09	40–9	3.5b			
JMA	IV	23 01 53 37.4–.10	36.47N	141.28E	44–2	3.6			
IDC	IV	23 01 53 40.1–3.3	36.38N	141.24E	53–28	3.7,3.6L			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ38.00000°,λ-113.00000°. NP2:ϕ_s188.00000°,δ55.00000°,λ-73.00000°. $M_0$4.19000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.3km az=5.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.6km s-min=13.2km az=77.0.

ISC	**IV**	**23 02 13 29.8–1.5**	**38.17N–.05**	**141.8E–.10**	**47–12**	**3.7b**	**26**	**0-58**	
NIED	IV	23 02 13 00	38.20N	141.70E	53	3.5W			**¶17201855**
IDC	IV	23 02 13 21.0–2.8	38.39N	142.32E	0	3.7,3.6b			
ISCJB	IV	23 02 13 29.7–1.0	38.18N–.05	141.7E–.10	55–8	3.6b,3.6b			
JMA	IV	23 02 13 30.5–.10	38.17N	141.68E	50–1	3.5,3.6b			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ32.00000°,λ28.00000°. NP2:ϕ_s43.00000°,δ76.00000°,λ119.00000°. $M_0$2.15000×10^{14}
IDC Error ellipse: s-maj=67.8km s-min=32.4km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=5.5km az=24.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**23 03 09 07.8**	**36.90N**	**140.67E**	**9–1**	**2.5**			**¶600596921**
ISC	**IV**	**23 06 30 23.3–.92**	**39.03N–.04**	**142.37E–.05**	**29–6**	**4.7b,4.4s**	**198**	**1-146**	
NIED	IV	23 06 30 00	39.00N	142.40E	53	4.3W,4.4s			**¶602557885**
BJI	IV	23 06 30 20.6	38.94N	142.77E	51	5.1b,4.7b			
MOS	IV	23 06 30 22.1–.98	39.01N	142.31E	33	4.8b,4.7b			
JMA	IV	23 06 30 22.5–.10	39.02N	142.42E	34–2	4.4,4.7b			
ISCJB	IV	23 06 30 23.9–.50	39.05N–.03	142.29E–.04	44–4	4.6b,4.5s			
IDC	IV	23 06 30 24.9–2.0	38.98N	142.35E	45–19	4.3,4.2			
NEIC	IV	23 06 30 26.5–.51	39.05N	142.28E	52–4	4.8b,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ4.00000°,λ-145.00000°. NP2:ϕ_s210.00000°,δ88.00000°,λ-87.00000°. $M_0$3.35000×10^{15}
MOS Error ellipse: s-maj=8.4km s-min=5.6km az=90.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.9km az=42.9.
IDC Error ellipse: s-maj=15.2km s-min=11.8km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=142.0. Recorded [3 JMA] in Iwate.

ISC	**IV**	**23 07 20 00.8–.65**	**35.55N–.05**	**141.08E–.06**	**33**	**3.7b**	**34**	**0-148**	
IDC	IV	23 07 19 56.1–.75	35.51N	141.20E	0	3.9,3.8			**¶16505502**
ISCJB	IV	23 07 19 59.0–.54	35.52N–.04	141.23E–.06	33	3.7b,3.8			
JMA	IV	23 07 20 00.5–.10	35.57N	141.07E	37–1	3.6,3.8			

ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=15.6km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.4km az=10.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**23 08 02 42.0–1.8**	**35.73N–.08**	**141.2E–.10**	**28–11**	**3.6b**	**16**	**0-75**	
JMA	IV	23 08 02 38.6–.10	35.78N	141.44E	16–2	3.3			**¶17201861**
ISCJB	IV	23 08 02 39.2–2.2	35.64N–.09	141.4E–.20	37–16	3.5b,3.1s			
IDC	IV	23 08 02 48.7–3.5	35.48N	140.65E	90–31	3.5,3.4			

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=31.1km s-min=13.9km az=167.0.
IDC Error ellipse: s-maj=32.1km s-min=20.4km az=91.0.

ISC	**IV**	**23 08 10 23.2–.78**	**35.88N–.06**	**141.99E–.07**	**23**	**3.6b**	**23**	**1-90**	
IDC	IV	23 08 10 19.5–.79	35.86N	142.14E	0	3.8,3.6			**¶17201862**
ISCJB	IV	23 08 10 21.2–.60	35.86N–.06	142.08E–.06	23	3.6b,3.6			
JMA	IV	23 08 10 22.0–.20	35.95N	142.07E	62	3.3,3.6			

ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=17.9km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.3km az=149.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**23 08 11 29.6–1.8**	**37.34N–.04**	**141.78E–.06**	**8–10**	**4.0b**	**38**	**1-75**	
NIED	IV	23 08 11 00	37.30N	141.80E	8	4.1W			**¶16577867**
ISCJB	IV	23 08 11 29.6–.97	37.34N–.03	141.83E–.05	15–6	3.9b			
JMA	IV	23 08 11 29.7–.10	37.32N	141.82E	26–2	4.2			
IDC	IV	23 08 11 30.0–.79	37.55N	141.65E	0	4.0,3.8			
NEIC	IV	23 08 11 33.2–2.3	37.55N	141.61E	21–16	4.3b,3.8			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ16.00000°,λ-46.00000°. NP2:ϕ_s354.00000°,δ78.00000°,λ-102.00000°. $M_0$1.40000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=19.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=16.2km az=122.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=110.0.

ISC	**IV**	**23 08 27 45.6–1.2**	**38.35N–.05**	**141.89E–.09**	**52–11**	**3.7b**	**35**	**0-146**	
NIED	IV	23 08 27 00	38.40N	141.80E	8	3.7W			**¶17201864**
ISCJB	IV	23 08 27 45.0–.70	38.39N–.04	141.86E–.09	63–6	3.6b			
JMA	IV	23 08 27 46.4	38.40N	141.79E	57–1	4.0			
IDC	IV	23 08 27 46.5–2.4	38.37N	141.84E	60–22	3.7,3.6			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ73.00000°,λ-11.00000°. NP2:ϕ_s199.00000°,δ79.00000°,λ-163.00000°. $M_0$3.94000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.6km az=17.6.
JMA Event type fe.
IDC Error ellipse: s-maj=27.5km s-min=14.8km az=99.0.

ISC	**IV**	**23 09 11 03.3–1.7**	**35.24N–.07**	**141.3E–.20**	**35**		**8**	**1-59**	
ISCJB	IV	23 09 11 01.8–1.6	35.24N–.08	141.3E–.20	35	3.3b			**¶600597159**
JMA	IV	23 09 11 01.4–.30	35.26N	141.27E	44–4	2.7			
IDC	IV	23 09 11 04.2–4.1	34.62N	140.46E	0	3.4,3.3b			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.2km s-min=9.0km az=162.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=139.5km s-min=31.9km az=64.0.

JMA	**IV**	**23 09 39 00.7–.10**	**37.52N**	**141.45E**	**24–1**	**3.4**			**¶17201870**
JMA	**IV**	**23 10 10 58.5**	**36.89N**	**140.62E**	**5–1**	**2.5**			**¶600597199**
ISC	**IV**	**23 10 11 10.1–2.0**	**38.33N–.04**	**142.29E–.07**	**5–12**	**4.0b**	**26**	**1-76**	
IDC	IV	23 10 11 09.5–.88	38.32N	142.45E	0	4.0,3.9			**¶17201872**
ISCJB	IV	23 10 11 11.0–1.4	38.34N–.04	142.33E–.08	21–9	3.9b,3.9			
JMA	IV	23 10 11 13.0–.10	38.43N	142.25E	25–1	4.1,3.9			

ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=16.7km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.2km az=5.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**23 10 12 46.9–.27**	**39.17N–.02**	**142.94E–.02**	**32–1**	**5.8b,5.7s**	**1871**	**1-165**	
NIED	IV	23 10 12 00	39.10N	143.00E	35	5.9W,5.7s			**¶16452561**
ISCJB	IV	23 10 12 45.4–.49	39.13N–.01	142.93E–.01	30–3	5.8b,5.7s			
BJI	IV	23 10 12 45.1	39.03N	142.83E	34	5.9,5.9b			
MOS	IV	23 10 12 46.3–.95	39.25N	142.92E	33	5.9b,5.8s			
JMA	IV	23 10 12 46.2–.10	39.13N	143.00E	35–3	6.1,5.8s			
NEIC	IV	23 10 12 47.0–.10	39.10N	142.87E	31	6.0,6.0W			
IDC	IV	23 10 12 47.4–1.8	39.09N	142.91E	34–13	5.6,5.6s			
GCMT	IV	23 10 12 47.0–.10	39.21N	142.91E	30–0	6.0W,5.6s			
NEIC	IV	23 10 12 48.0–.00	38.96N	143.09E	38	6.0W,5.6s			
NEIC	IV	23 10 13 01.9–.00	39.18N	142.69E	32	6.0W,5.6s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ42.00000°,λ56.00000°. NP2:ϕ_s301.00000°,δ56.00000°,λ117.00000°. $M_0$8.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.7km az=160.6.
MOS Event type fe. Error ellipse: s-maj=5.7km s-min=3.6km az=105.1. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=138.0. Felt [II] at Misawa and Tokyo. Also felt at Atsugi and Ichinoseki. Recorded [3 JMA] in Aomori, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s97 Moment tensor: Scale 10^{17}Nm; M_{rr}4.97 $M_{\theta\theta}$-8.10 $M_{\phi\phi}$3.12 $M_{r\theta}$-0.57 $M_{\theta\phi}$1.07 $M_{\phi r}$1.14 Best double couple: NP1:ϕ_s72.00000° ,δ48.00000°,λ55.00000°. NP2:ϕ_s298.00000°,δ53.00000°,λ122.00000°. Principal axes: T 5.5200,Plg65.0000°,Azm269.0000°; N 2.7100,Plg25.0000°,Azm97.0000° ; P -8.2300,Plg3.0000°,Azm6.0000° $M_0$7.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s120.00000°,δ25.00000°,λ90.00000°. NP2: ϕ_s300.00000°,δ65.00000°,λ90.00000°. Principal axes: T Plg70.0000°,Azm210.0000° ; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm30.0000°
IDC Error ellipse: s-maj=9.6km s-min=7.4km az=66.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c286; s138,c425;Duration: 2τ3 Moment tensor: Scale 10^{18}Nm; M_{rr}1.05±.01 $M_{\theta\theta}$-1.00±.01; $M_{\phi\phi}$-0.05±.01; $M_{r\theta}$-0.30±.01; $M_{\theta\phi}$0.19±.01; $M_{\phi r}$0.20±.01; Best double couple: NP1: ϕ_s288.00000°,δ54.00000°,λ98.00000°. NP2:ϕ_s94.00000°,δ36.00000°,λ78.00000°. Principal axes: T 1.1210,Plg79.0000°,Azm230.0000°; N -0.0340,Plg7.0000°,Azm103.0000° ; P -1.0900,Plg9.0000°,Azm12.0000° $M_0$1.10500×10^{18}
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}7.65 $M_{\theta\theta}$-6.82 $M_{\phi\phi}$-0.83 $M_{r\theta}$-3.72 $M_{\theta\phi}$1.62 $M_{\phi r}$0.40 Best double couple: NP1:ϕ_s281.00000° ,δ58.00000°,λ86.00000°. NP2:ϕ_s107.00000°,δ32.00000°,λ96.00000°. Principal axes: T 8.5500,Plg76.0000°,Azm180.0000°; N -0.4500,Plg2.0000°,Azm282.0000° ; P -8.1100,Plg13.0000°,Azm13.0000° $M_0$8.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s60 Moment tensor: Scale 10^{18}Nm; M_{rr}1.03 $M_{\theta\theta}$-1.01 $M_{\phi\phi}$-0.02 $M_{r\theta}$0.41 $M_{\theta\phi}$0.26 $M_{\phi r}$-0.02 Best double couple: NP1:ϕ_s288.00000° ,δ35.00000°,λ97.00000°. NP2:ϕ_s100.00000°,δ56.00000°,λ85.00000°. Principal axes: T 1.1100,Plg79.0000°,Azm353.0000°; N 0.0400,Plg4.0000°,Azm103.0000° ; P -1.1500,Plg10.0000°,Azm193.0000° $M_0$1.10000×10^{18}

ISC	**IV**	**23 10 39 50.9–4.1**	**37.71N–.05**	**141.85E–.10**	**5–27**	**3.5b**	**20**	**1-62**	
ISCJB	IV	23 10 39 50.9–1.8	37.70N–.05	141.9E–.10	17–12	3.6b			**¶600597205**
IDC	IV	23 10 39 50.5–2.4	37.57N	142.09E	0	3.6,3.5L			
JMA	IV	23 10 39 52.2–.10	37.71N	141.85E	21–2	3.8,3.5L			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=7.4km az=17.3.
IDC Error ellipse: s-maj=62.3km s-min=30.4km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**23 10 59 24.1–1.5**	**35.90N–.04**	**141.67E–.05**	**26–10**	**4.5b,4.2s**	**202**	**1-152**	
NIED	IV	23 10 59 00	35.90N	141.70E	23	4.3W,4.2s			**¶16476064**
IDC	IV	23 10 59 19.9–.42	35.87N	141.68E	0	4.4,4.4			
BJI	IV	23 10 59 23.2	35.63N	141.42E	29	5.3b,4.6b			
ISCJB	IV	23 10 59 23.4–1.0	35.86N–.03	141.65E–.04	33–7	4.5b,4.2s			
JMA	IV	23 10 59 23.3–.20	35.93N	141.68E	50–4	4.3,4.2s			
NEIC	IV	23 10 59 23.9–1.5	35.89N	141.66E	23–11	4.6b,4.2s			
MOS	IV	23 10 59 25.4–.89	36.26N	141.57E	33	4.6b,4.2s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ43.00000°,λ-103.00000°. NP2:ϕ_s209.00000°,δ49.00000°,λ-79.00000°. $M_0$3.45000×10^{15}
IDC Error ellipse: s-maj=11.9km s-min=10.3km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.6km az=174.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.3km az=118.0.
MOS Error ellipse: s-maj=8.9km s-min=6.1km az=106.9.

JMA	**IV**	**23 11 30 38.7–.20**	**38.72N**	**142.43E**	**24–2**	**3.9**			**¶600597229**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**23 12 56 42.3–1.7**	**35.40N–.04**	**140.94E–.05**	**10–10**	**4.0b**	**50**	**0-91**	
NIED	IV	23 12 56 00	35.40N	141.00E	11	3.9W			**¶16505506**
IDC	IV	23 12 56 40.6–.57	35.35N	141.10E	0	4.0,3.9			
ISCJB	IV	23 12 56 41.9–.74	35.39N–.03	141.14E–.06	22–5	3.8b,3.6s			
JMA	IV	23 12 56 42.9–.10	35.44N	141.03E	23–1	3.9,3.6s			
NEIC	IV	23 12 56 45.6–.31	35.36N	141.05E	35	4.1b,3.6s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ38.00000°,λ-59.00000°. NP2:ϕ_s102.00000°,δ58.00000°,λ-112.00000°. $M_0$8.90000×10^{14}
IDC Error ellipse: s-maj=18.0km s-min=12.3km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=179.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.7km az=102.0.

ISC	**IV**	**23 13 42 50.2–.80**	**37.70N–.06**	**141.92E–.07**	**24**	**3.6b**	**25**	**1-89**	
NIED	IV	23 13 42 00	37.70N	142.00E	11	3.9W			**¶17201880**
IDC	IV	23 13 42 46.4–.78	37.65N	142.06E	0	3.9,3.7			
ISCJB	IV	23 13 42 48.3–.61	37.69N–.05	142.03E–.06	24	3.7b,3.7			
JMA	IV	23 13 42 48.8–.10	37.70N	141.99E	20–3	3.9,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ20.00000°,λ-81.00000°. NP2:ϕ_s315.00000°,δ70.00000°,λ-93.00000°. $M_0$6.83000×10^{14}
IDC Error ellipse: s-maj=22.0km s-min=16.8km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.5km az=143.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**23 14 31 29.5–.71**	**36.49N–.04**	**140.68E–.05**	**52–6**	**4.3b,3.5s**	**138**	**0-95**	
NIED	IV	23 14 31 00	36.40N	140.60E	56	4.5W,3.5s			**¶602557895**
BJI	IV	23 14 31 25.8	36.31N	140.85E	45	4.9b,4.6b			
MOS	IV	23 14 31 25.7–1.3	36.48N	140.66E	33	4.6b,4.6b			
ISCJB	IV	23 14 31 28.9–.40	36.48N–.03	140.62E–.05	61–2	4.3b,4.6b			
JMA	IV	23 14 31 29.2	36.42N	140.59E	55–1	4.2,4.6b			
NEIC	IV	23 14 31 31.6–.87	36.52N	140.42E	70–7	4.5b,4.6b			
IDC	IV	23 14 31 32.4–1.7	36.44N	140.40E	74–16	4.2,3.9			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ44.00000°,λ15.00000°. NP2:ϕ_s17.00000°,δ80.00000°,λ133.00000°. $M_0$5.90000×10^{15}
MOS Error ellipse: s-maj=10.6km s-min=6.3km az=105.6.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.2km az=28.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s29.00000°,δ80.00000°,λ130.00000°. NP2:ϕ_s131.00000°,δ41.00000°,λ16.00000°. Principal axes: T Plg41.0000°,Azm336.0000°; N Plg39.0000°,Azm200.0000°; P Plg24.0000° ,Azm89.0000°
NEIC Event type fe. Error ellipse: s-maj=10.9km s-min=8.1km az=110.0. Recorded [3 JMA] in Ibaraki.
IDC Error ellipse: s-maj=19.5km s-min=10.9km az=81.0.

ISC	**IV**	**23 14 45 34.8–2.1**	**37.31N–.06**	**141.5E–.10**	**38–3**	**3.5b**	**25**	**0-57**	
ISCJB	IV	23 14 45 33.9–1.1	37.33N–.04	141.48E–.09	45–9	3.5b			**¶17201883**
IDC	IV	23 14 45 33.9–2.0	37.83N	141.00E	0	3.8,3.8b			
JMA	IV	23 14 45 35.4–.10	37.34N	141.35E	48–1	3.8,3.8b			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=6.1km az=23.9.
IDC Error ellipse: s-maj=41.5km s-min=27.6km az=81.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 23 14 46 38.9–2.1 36.87N–.05 141.99E–.06 2–12 3.7b 38 1-90
NIED IV 23 14 46 00 36.80N 142.20E 20 3.8W ¶17201884
JMA IV 23 14 46 36.8–.40 36.85N 142.20E 10–4 4.2
ISCJB IV 23 14 46 37.4–1.7 36.86N–.04 142.13E–.04 3–11 3.8b
IDC IV 23 14 46 38.8–.73 36.83N 142.04E 0 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ32.00000°,λ-68.00000°. NP2:ϕ_s186.00000°,δ60.00000°,λ-103.00000°. $M_0$6.08000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.9km az=10.3.
IDC Error ellipse: s-maj=19.3km s-min=14.8km az=126.0.
ISC IV 23 15 31 38.0–2.0 36.71N–.05 141.97E–.08 2–11 20 1-61
IDC IV 23 15 31 38.0–40 36.53N 142.24E 0 3.6,3.4b ¶17201885
ISCJB IV 23 15 31 40.4–1.4 36.63N–.05 141.92E–.08 18–8 3.5b,3.4b
JMA IV 23 15 31 43.1–.20 36.64N 141.77E 52–5 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=892.6km s-min=44.0km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.4km az=178.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 23 16 07 10.9–1.2 35.80N–.05 140.93E–.08 12–7 3.5b 15 0-65
NIED IV 23 16 07 00 35.80N 141.00E 8 3.7W ¶17201889
IDC IV 23 16 07 08.9–1.0 35.68N 140.89E 0 3.6,3.4
ISCJB IV 23 16 07 09.8–.90 35.73N–.06 140.96E–.09 20–5 3.5b,3.2s
JMA IV 23 16 07 10.6–.10 35.79N 140.96E 14–1 3.7,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ65.00000°,λ-23.00000°. NP2:ϕ_s138.00000°,δ69.00000°,λ-153.00000°. $M_0$3.94000×10^{14}
IDC Error ellipse: s-maj=25.4km s-min=22.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=8.8km az=150.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 23 16 37 01.9–2.3 39.11N–.05 142.52E–.09 16–12 3.4b 21 1-63
ISCJB IV 23 16 37 02.4–1.4 39.08N–.05 142.51E–.08 32–7 3.5b ¶17201892
JMA IV 23 16 37 03.6–.10 39.11N 142.44E 34–2 3.1
IDC IV 23 16 37 06.0–3.6 39.10N 142.65E 55–33 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.4km az=9.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=51.2km s-min=24.9km az=87.0.
ISC IV 23 16 39 49.1–1.2 36.93N–.05 140.60E–.04 9–11 3.6b 23 0-61
IDC IV 23 16 39 47.8–1.4 36.89N 140.63E 0 3.8,3.6 ¶17201893
ISCJB IV 23 16 39 49.2–.54 36.95N–.03 140.69E–.05 20–5 3.6b,3.6
JMA IV 23 16 39 49.8 36.97N 140.60E 7–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=17.2km az=179.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.4km az=20.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s117.00000°,δ54.00000°,λ-73.00000°. NP2:ϕ_s269.00000°,δ39.00000°,λ-112.00000°. Principal axes: T Plg8.0000°,Azm195.0000°; N Plg14.0000°,Azm287.0000°; P Plg74.0000°,Azm76.0000°
ISC IV 23 16 42 50.9–.94 35.39N–.05 141.10E–.08 33 3.6b 22 0-59
ISCJB IV 23 16 42 48.7–.70 35.45N–.04 141.32E–.07 33 3.5b ¶17201894
IDC IV 23 16 42 51.4–3.1 35.46N 141.16E 37–27 3.7,3.6
JMA IV 23 16 42 52.2–.10 35.39N 140.99E 35–2 3.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.9km az=172.1.
IDC Error ellipse: s-maj=42.3km s-min=17.4km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 23 18 12 08.4–.94 36.88N–.03 140.68E–.04 13–7 3.2b 27 0-64
NIED IV 23 18 12 00 36.90N 140.70E 5 3.4W ¶17201899
IDC IV 23 18 12 06.5–1.0 36.87N 140.69E 0 3.5,3.5
ISCJB IV 23 18 12 07.8–.59 36.86N–.03 140.77E–.06 20–5 3.2b,3.5
JMA IV 23 18 12 08.6 36.88N 140.66E 8–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ20.00000°,λ-8.00000°. NP2:ϕ_s169.00000°,δ87.00000°,λ-110.00000°. $M_0$1.40000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=15.1km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.2km az=17.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s193.00000°,δ64.00000°,λ-96.00000°. NP2:ϕ_s26.00000°,δ26.00000°,λ-78.00000°. Principal axes: T Plg19.0000°,Azm287.0000°; N Plg5.0000°,Azm195.0000°; P Plg70.0000°,Azm91.0000°
ISC IV 23 18 54 58.6–.92 37.76N–.04 141.99E–.09 36–3 3.7b 42 1-89
NIED IV 23 18 54 00 37.80N 141.80E 53 4.1W ¶17201901
ISCJB IV 23 18 54 58.7–.85 37.79N–.03 141.88E–.08 52–7 3.6b
JMA IV 23 18 54 59.8 37.80N 141.79E 47–1 4.2
IDC IV 23 18 54 59.4–2.2 37.87N 142.09E 46–20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ44.00000°,λ96.00000°. NP2:ϕ_s10.00000°,δ47.00000°,λ84.00000°. $M_0$1.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.3km az=14.2.
JMA Event type fe.
IDC Error ellipse: s-maj=21.0km s-min=14.8km az=109.0.
JMA IV 23 19 25 53.6–.10 36.97N 141.18E 31–1 2.7 ¶600597506
ISC IV 23 20 04 57.6–.57 37.24N–.03 141.27E–.04 17–3 4.2b,3.3s 134 0-147
NIED IV 23 20 04 00 37.20N 141.30E 8 4.1W,3.3s ¶600597522
BJI IV 23 20 04 55.3 37.08N 141.62E 35 4.7b,4.5b
ISCJB IV 23 20 04 56.9–.68 37.23N–.03 141.32E–.05 26–4 4.2b,3.5s
IDC IV 23 20 04 57.8–.60 37.20N 141.17E 18–3 4.1,4.1
JMA IV 23 20 04 57.6–.10 37.24N 141.29E 22–1 4.3,4.1
MOS IV 23 20 04 58.5–1.1 37.22N 141.26E 39 4.4b,4.1
NEIC IV 23 20 05 00.4–.53 37.26N 141.21E 37–4 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ44.00000°,λ-83.00000°. NP2:ϕ_s81.00000°,δ47.00000°,λ-96.00000°. $M_0$1.56000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.1km az=17.6.
IDC Error ellipse: s-maj=16.0km s-min=12.3km az=97.0.
JMA Event type fe.
MOS Error ellipse: s-maj=10.7km s-min=7.1km az=92.4.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=119.0.
ISC IV 23 20 56 19.5–1.5 36.78N–.05 140.64E–.05 0–12 3.4b 21 0-57
ISCJB IV 23 20 56 19.5–.87 36.71N–.04 140.71E–.07 12–4 3.3b ¶17201909
IDC IV 23 20 56 19.0–2.0 36.74N 140.76E 0 3.5,3.5b
JMA IV 23 20 56 20.5 36.74N 140.61E 7 2.7,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.5km az=26.0.
IDC Error ellipse: s-maj=38.2km s-min=22.8km az=69.0.
ISC IV 23 21 00 31.1–1.3 36.1N–.10 141.99E–.10 23 3.4b 10 1-90
JMA IV 23 21 00 23.3–.20 36.33N 142.69E 74 3.2 ¶17201910
IDC IV 23 21 00 34.3–5.1 35.43N 141.63E 66–44 3.7,3.7s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=45.5km s-min=28.0km az=71.0.
ISC IV 23 21 30 36.7–1.4 35.44N–.04 140.85E–.08 20–5 3.4b 18 0-55
NIED IV 23 21 30 00 35.50N 140.90E 5 3.8W ¶17201911
ISCJB IV 23 21 30 36.1–.92 35.47N–.04 140.96E–.09 25–5 3.3b
JMA IV 23 21 30 36.6–.10 35.49N 140.91E 25–1 3.7
IDC IV 23 21 30 43.6–5.2 35.25N 140.57E 68–32 3.4,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ15.00000°,λ-16.00000°. NP2:ϕ_s340.00000°,δ86.00000°,λ-104.00000°. $M_0$5.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=6.2km az=3.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=76.8km s-min=15.2km az=77.0.
ISC IV 23 21 32 51.4–3.6 36.88N–.05 141.88E–.07 14–22 3.7b 28 1-92
ISCJB IV 23 21 32 49.7–1.5 36.89N–.06 141.97E–.08 15–10 3.6b ¶600597585
IDC IV 23 21 32 49.1–.90 36.76N 142.03E 0 3.9,3.7
JMA IV 23 21 32 52.2–.30 36.91N 141.87E 39 3.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=9.4km az=172.3.
IDC Error ellipse: s-maj=23.9km s-min=17.9km az=159.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC IV 23 22 04 32.5–2.1 37.26N 141.47E 0 3.4,3.3 ¶17201913
IDC Error ellipse: s-maj=49.4km s-min=32.6km az=74.0.
ISC IV 23 22 06 52.8–.47 35.10N–.04 141.38E–.07 27 4.2b 60 1-84
IDC IV 23 22 06 49.3–.55 35.15N 141.26E 0 4.2,4.1L ¶16505511
ISCJB IV 23 22 06 51.1–.36 35.10N–.04 141.41E–.05 27 4.1b,3.8s
NEIC IV 23 22 06 51.7–3.1 35.15N 141.36E 16–19 4.6b,3.8s
JMA IV 23 22 06 51.1–.30 35.14N 141.36E 26 3.5,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=11.8km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.1km az=177.8.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.6km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 23 23 01 05.0–2.5 36.20N–.08 141.9E–.20 23 8 1-45
IDC IV 23 23 01 01.9–5.3 36.13N 141.94E 0 3.7b,3.7 ¶600597674
JMA IV 23 23 01 01.2–.20 36.25N 142.15E 77 3.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=89.7km s-min=31.6km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 23 23 29 11.8–1.4 36.96N–.04 140.65E–.04 0–10 3.6b 27 0-69
IDC IV 23 23 29 11.5–1.1 37.02N 140.73E 0 3.7,3.5 ¶17201917
ISCJB IV 23 23 29 12.2–.60 37.02N–.03 140.78E–.06 16–4 3.5b,3.5
JMA IV 23 23 29 12.8 37.02N 140.65E 6–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=20.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.2km az=19.7.
JMA Event type fe.
JMA IV 24 00 52 14.8–.20 36.59N 141.86E 54 3.5 ¶600597723
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 01 03 58.4–.75 36.83N–.06 141.96E–.06 19 3.7b 19 1-90
IDC IV 24 01 03 55.8–.86 36.80N 142.09E 0 3.9,3.7 ¶600597729
ISCJB IV 24 01 03 56.1–.63 36.78N–.05 142.18E–.07 19 3.6b,3.7
JMA IV 24 01 04 01.3–.40 36.95N 141.80E 68 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=17.9km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.2km az=38.4.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 24 01 16 47.5–.69 36.83N–.05 141.95E–.06 19 4.0b 42 1-90
NIED IV 24 01 16 00 36.80N 142.20E 11 4.0W ¶16577872
JMA IV 24 01 16 42.1–.50 36.82N 142.24E 14 4.1
IDC IV 24 01 16 44.6–.75 36.81N 142.01E 0 4.1,3.9
ISCJB IV 24 01 16 45.2–.47 36.83N–.03 142.05E–.05 19 4.0b,2.9s
NEIC IV 24 01 16 46.5–4.1 36.82N 142.04E 13–26 4.3b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ30.00000°,λ-76.00000°. NP2:ϕ_s170.00000°,δ61.00000°,λ-98.00000°. $M_0$1.18000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=15.6km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.7km az=4.2.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.1km az=110.0.
JMA IV 24 02 21 53.3–.10 38.74N 142.20E 32–2 3.9
NIED IV 24 02 21 00 38.70N 142.20E 35 4.0W ¶16577873
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ61.00000°,λ-155.00000°. NP2:ϕ_s224.00000°,δ68.00000°,λ-32.00000°. $M_0$1.01000×10^{15}
JMA IV 24 02 29 18.9–.10 38.42N 142.19E 31–2 3.5 ¶600597780
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 24 03 17 58.5–.63 38.60N–.05 142.50E–.06 24 3.8b 40 1-145
ISCJB IV 24 03 17 57.2–.46 38.62N–.04 142.58E–.04 24 3.8b,3.0s ¶17201923
NIED IV 24 03 18 00 38.60N 142.40E 53 4.1W,3.0s
JMA IV 24 03 18 00.5–.10 38.64N 142.41E 38–2 4.2,3.0s
IDC IV 24 03 18 02.6–2.4 38.66N 142.23E 57–20 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=149.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ37.00000°,λ128.00000°. NP2:ϕ_s221.00000°,δ62.00000°,λ65.00000°. $M_0$1.35000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=17.9km s-min=12.6km az=112.0.
JMA IV 24 03 27 15.6–.10 39.11N 142.38E 30–2 3.5
NIED IV 24 03 27 00 39.10N 142.40E 20 3.7W ¶600597808
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ55.00000°,λ-26.00000°. NP2:ϕ_s275.00000°,δ69.00000°,λ-142.00000°. $M_0$4.30000×10^{14}
ISC IV 24 04 02 17.9–1.4 39.14N–.04 142.34E–.06 20–5 3.7b 30 1-76
NIED IV 24 04 02 00 39.20N 142.40E 35 3.9W ¶17201924
ISCJB IV 24 04 02 18.7–.99 39.17N–.04 142.41E–.09 37–10 3.5b
JMA IV 24 04 02 18.4–.10 39.20N 142.40E 29–1 4.1
IDC IV 24 04 02 21.6–2.3 39.15N 142.39E 51–21 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ35.00000°,λ-128.00000°. NP2:ϕ_s183.00000°,δ63.00000°,λ-67.00000°. $M_0$7.24000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.7km az=14.8.
JMA Event type fe.
IDC Error ellipse: s-maj=24.9km s-min=12.7km az=113.0.
ISC IV 24 04 47 53.4–.99 38.35N–.05 141.90E–.07 60–8 4.1b 72 0-146
NIED IV 24 04 47 00 38.30N 141.90E 62 4.2W ¶16505514
ISCJB IV 24 04 47 52.8–.54 38.35N–.03 141.90E–.06 71–3 4.1b
JMA IV 24 04 47 54.0–.10 38.34N 141.86E 63–1 4.3
NEIC IV 24 04 47 54.1–.76 38.40N 141.89E 64–6 4.3b
IDC IV 24 04 47 54.1–1.9 38.31N 141.88E 67–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ64.00000°,λ168.00000°. NP2:ϕ_s195.00000°,δ79.00000°,λ26.00000°. $M_0$2.11000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.7km az=27.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=5.8km az=135.0.
IDC Error ellipse: s-maj=15.6km s-min=12.6km az=105.0.
ISC IV 24 05 06 08.7–.48 34.92N–.04 140.98E–.04 24–3 4.4b,3.5s 156 0-148
NIED IV 24 05 06 00 34.90N 141.10E 8 4.2W,3.5s ¶16452995
IDC IV 24 05 06 05.1–.51 34.90N 140.86E 0 4.2,4.1
ISCJB IV 24 05 06 08.0–.58 34.88N–.03 140.92E–.04 32–4 4.3b,3.6s
JMA IV 24 05 06 07.0–.10 34.94N 141.06E 43–3 4.4,3.6s
NEIC IV 24 05 06 07.2–2.5 34.88N 140.92E 14–15 4.6b,3.6s
MOS IV 24 05 06 08.8–.98 34.95N 140.92E 39 4.6b,3.6s
BJI IV 24 05 06 08.9 34.87N 140.67E 29 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ34.00000°,λ90.00000°. NP2:ϕ_s343.00000°,δ56.00000°,λ90.00000°. $M_0$2.51000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=12.3km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.7km az=151.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.8km az=79.0.
MOS Error ellipse: s-maj=11.6km s-min=6.7km az=117.7.
ISC IV 24 05 12 56.1–1.1 36.67N–.04 140.67E–.06 10–6 3.6b 24 0-91
ISCJB IV 24 05 12 55.0–.95 36.63N–.05 140.74E–.06 13–4 3.5b ¶16707840
IDC IV 24 05 12 54.2–.85 36.79N 140.81E 0 3.7,3.6
JMA IV 24 05 12 56.9 36.69N 140.61E 5–1 3.5,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.9km az=41.3.
IDC Error ellipse: s-maj=22.2km s-min=19.4km az=61.0.
JMA Event type fe.
ISC IV 24 05 13 07.3–2.7 38.35N–.08 142.28E–.09 11–15 3.9b 21 1-74
NIED IV 24 05 13 00 38.40N 142.30E 20 4.0W ¶17201926
IDC IV 24 05 13 05.4–.91 38.26N 142.26E 0 4.0,3.9b
ISCJB IV 24 05 13 07.0–1.6 38.31N–.07 142.35E–.09 23–9 3.9b,3.9b
JMA IV 24 05 13 08.3–.10 38.37N 142.31E 22–1 4.1,3.9b
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ-88.00000°. NP2:ϕ_s5.00000°,δ59.00000°,λ-91.00000°. $M_0$9.97000×10^{14}
IDC Error ellipse: s-maj=28.1km s-min=21.0km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=11.4km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 24 06 11 24.9–.20 36.76N 141.42E 47–3 2.6
¶16505516
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 24 06 11 34.6–.85 36.17N–.05 141.04E–.06 31 3.5b 15 0-65
NIED IV 24 06 11 00 36.10N 141.00E 44 3.6W **¶600597905**
IDC IV 24 06 11 31.2–1.2 36.30N 141.10E 0 3.9s,3.9
ISCJB IV 24 06 11 33.1–.79 36.17N–.05 141.08E–.07 31 3.9s,3.4b
JMA IV 24 06 11 34.0–.10 36.10N 141.03E 42–1 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ74.00000°,λ-170.00000°. NP2:ϕ_s77.00000°,δ80.00000°,λ-17.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=37.3km s-min=20.8km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.3km az=156.5.
JMA Event type fe.
ISC IV 24 06 28 25.9–2.4 37.05N–.05 141.30E–.07 17–15 24 0-57
IDC IV 24 06 28 23.3–1.9 37.11N 141.35E 0 3.8,3.8s **¶17201936**
JMA IV 24 06 28 28.9–.10 37.09N 141.17E 50–1 3.7,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=28.2km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 24 06 30 33.6–.10 36.69N 141.46E 49–2 3.6
¶600597912
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 06 34 29.9–1.6 35.43N–.06 141.1E–.20 33 12 0-55
IDC IV 24 06 34 25.7–2.7 35.37N 141.26E 0 3.3,3.3b **¶600597914**
ISCJB IV 24 06 34 28.7–1.5 35.44N–.06 141.2E–.20 33 3.3b,3.3b
JMA IV 24 06 34 29.6–.10 35.46N 141.15E 29–2 2.8,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=56.6km s-min=25.3km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=7.2km az=169.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 07 00 04.7–.99 35.79N–.04 140.90E–.07 13–6 3.6b 26 0-148
NIED IV 24 07 00 00 35.80N 140.90E 8 3.7W **¶17201939**
IDC IV 24 07 00 02.9–.70 35.74N 140.92E 0 3.8,3.6
ISCJB IV 24 07 00 04.0–.75 35.80N–.04 140.96E–.07 17–5 3.5b,3.6
JMA IV 24 07 00 04.5–.10 35.82N 140.91E 12–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_s175.00000°,δ47.00000°,λ-93.00000°. $M_0$3.80000×10^{14}
IDC Error ellipse: s-maj=21.9km s-min=18.2km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.2km az=156.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 24 07 49 35.6–.63 36.91N–.05 141.84E–.06 19 3.8b 40 1-90
NIED IV 24 07 49 00 36.90N 141.80E 11 3.7W **¶16577877**
IDC IV 24 07 49 32.6–.71 36.83N 142.03E 0 4.0,3.9L
ISCJB IV 24 07 49 33.4–.46 36.86N–.04 142.08E–.05 19 3.8b,3.9L
JMA IV 24 07 49 36.9–.40 36.89N 141.75E 41–5 3.5,3.9L
NEIC IV 24 07 49 37.7–.52 36.87N 142.01E 35 4.4b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ27.00000°,λ-137.00000°. NP2:ϕ_s168.00000°,δ72.00000°,λ-70.00000°. $M_0$4.31000×10^{14}
IDC Error ellipse: s-maj=21.1km s-min=15.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=42.3.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.5km az=130.0.
ISC IV 24 08 20 45.1–.76 38.31N–.03 141.98E–.06 30–5 3.8b 53 1-146
NIED IV 24 08 20 00 38.30N 141.80E 62 3.9W **¶16577878**
ISCJB IV 24 08 20 45.0–.69 38.28N–.03 141.93E–.07 45–7 3.7b
IDC IV 24 08 20 46.8–2.1 38.26N 141.91E 42–20 3.9,3.8L
NEIC IV 24 08 20 46.9–.85 38.25N 141.98E 45–9 4.3b,3.8L
JMA IV 24 08 20 47.2–.10 38.34N 141.77E 49–1 4.2,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ41.00000°,λ-154.00000°. NP2:ϕ_s122.00000°,δ73.00000°,λ-52.00000°. $M_0$8.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=4.4km az=9.3.
IDC Error ellipse: s-maj=22.9km s-min=13.4km az=99.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=6.9km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 24 08 28 32.7–2.3 37.26N–.05 141.93E–.07 10–14 3.5b 24 1-61
NIED IV 24 08 28 00 37.30N 141.90E 50 3.7W **¶600597987**
IDC IV 24 08 28 31.8–1.0 37.20N 142.09E 0 3.6,3.6
JMA IV 24 08 28 35.2–.20 37.32N 141.89E 29–4 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ24.00000°,λ60.00000°. NP2:ϕ_s73.00000°,δ69.00000°,λ102.00000°. $M_0$3.89000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=17.6km az=102.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 09 30 12.6–.49 34.93N–.04 140.97E–.04 24–3 4.4b,3.5s 162 0-148
NIED IV 24 09 30 00 34.90N 141.10E 8 4.2W,3.5s **¶16453006**
IDC IV 24 09 30 08.8–.52 34.89N 140.85E 0 4.1,4.1
BJI IV 24 09 30 08.1 34.89N 141.19E 18 4.8b,4.6b
JMA IV 24 09 30 11.1–.20 34.93N 141.05E 41–3 3.6,4.6b
NEIC IV 24 09 30 11.0–2.2 34.90N 140.88E 11–13 4.7b,4.6b
MOS IV 24 09 30 12.4–1.4 34.99N 140.98E 33 4.4b,4.6b
ISCJB IV 24 09 30 12.1–.66 34.86N–.03 140.92E–.04 33–4 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ28.00000°,λ136.00000°. NP2:ϕ_s320.00000°,δ71.00000°,λ69.00000°. $M_0$2.22000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC IV 24 09 51 57.1–.57 38.71N–.04 141.97E–.04 50–4 4.5b,3.7s 232 0-151
NIED IV 24 09 51 00 38.60N 141.90E 53 4.5W,3.7s **¶16453007**
MOS IV 24 09 51 53.6–1.1 38.68N 142.01E 33 4.8b,3.7s
BJI IV 24 09 51 53.3 38.62N 142.30E 59 4.9b,4.7b
ISCJB IV 24 09 51 55.5–.42 38.66N–.03 141.98E–.04 52–3 4.5b,3.7s
JMA IV 24 09 51 56.5–.10 38.62N 141.92E 49–1 4.4,3.7s
IDC IV 24 09 51 57.2–.61 38.63N 141.84E 54–5 4.3,4.2
NEIC IV 24 09 51 58.2–.51 38.68N 141.92E 59–4 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ27.00000°,λ30.00000°. NP2:ϕ_s46.00000°,δ77.00000°,λ114.00000°. $M_0$6.79000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=4.9km az=96.6.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=36.2.
JMA Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=11.4km az=95.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=125.0.
ISC IV 24 10 45 14.2–.80 38.65N–.06 142.05E–.08 41 3.7b 30 1-82
NIED IV 24 10 45 00 38.70N 142.00E 53 3.8W **¶17201955**
ISCJB IV 24 10 45 12.2–.57 38.64N–.05 142.19E–.06 41 3.6b
JMA IV 24 10 45 14.1–.10 38.66N 142.04E 44–1 3.8
IDC IV 24 10 45 14.1–3.7 38.61N 141.98E 40–33 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ15.00000°,λ68.00000°. NP2:ϕ_s20.00000°,δ76.00000°,λ96.00000°. $M_0$6.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.0km az=143.6.
JMA Event type fe.
IDC Error ellipse: s-maj=23.6km s-min=17.8km az=96.0.
ISC IV 24 10 49 37.1–1.1 38.47N–.05 141.89E–.08 53–9 3.6b 45 0-89
NIED IV 24 10 49 00 38.50N 141.80E 62 4.0W **¶17201956**
ISCJB IV 24 10 49 36.3–.61 38.48N–.04 141.84E–.07 62–4 3.6b
JMA IV 24 10 49 37.1 38.50N 141.85E 56–1 4.1
IDC IV 24 10 49 39.0–2.2 38.44N 141.77E 72–21 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ15.00000°,λ43.00000°. NP2:ϕ_s175.00000°,δ80.00000°,λ101.00000°. $M_0$9.60000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.2km az=21.7.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=15.2km az=92.0.
ISC IV 24 11 03 38.1–1.0 36.89N–.03 140.66E–.05 9–7 3.6b 32 0-91
NIED IV 24 11 03 00 36.90N 140.70E 5 3.7W **¶17201957**
ISCJB IV 24 11 03 37.2–.66 36.87N–.03 140.80E–.05 13–4 3.6b
JMA IV 24 11 03 38.0 36.89N 140.68E 7–1 3.8
IDC IV 24 11 03 43.4–2.4 36.83N 140.60E 51–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ25.00000°,λ-117.00000°. NP2:ϕ_s190.00000°,δ67.00000°,λ-78.00000°. $M_0$3.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.0km az=21.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s300.00000°,δ55.00000°,λ-117.00000°. NP2:ϕ_s162.00000°,δ43.00000°,λ-57.00000°. Principal axes: T Plg6.0000°,Azm49.0000°; N Plg22.0000°,Azm317.0000°; P Plg67.0000° ,Azm154.0000°
IDC Error ellipse: s-maj=25.4km s-min=12.7km az=83.0.
ISC IV 24 11 07 34.6–1.0 35.72N–.04 140.98E–.06 16–6 3.3b 21 0-65
NIED IV 24 11 07 00 35.70N 141.00E 14 3.8W **¶17201959**
ISCJB IV 24 11 07 32.4–.98 35.74N–.04 141.13E–.07 16–7 3.3s,3.2b
IDC IV 24 11 07 32.5–1.2 35.63N 141.05E 0 3.5,3.4L
JMA IV 24 11 07 33.9–.20 35.70N 141.02E 21–1 3.6,3.4L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ83.00000°,λ4.00000°. NP2:ϕ_s131.00000°,δ86.00000°,λ173.00000°. $M_0$4.82000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.1km az=171.3.
IDC Error ellipse: s-maj=28.2km s-min=18.6km az=84.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 14 34 02.9–.77 37.97N–.04 141.80E–.05 50–7 4.4b,3.0s 196 1-144
MOS IV 24 14 33 59.5–1.0 37.98N 141.84E 33 4.6b,3.0s **¶16453017**
NIED IV 24 14 34 00 38.00N 141.60E 50 4.2W,3.0s
BJI IV 24 14 34 00.5 37.87N 141.90E 64 4.9b,4.6b
ISCJB IV 24 14 34 02.0–.43 37.99N–.02 141.74E–.04 56–3 4.4b,3.1s
JMA IV 24 14 34 03.4–.10 37.97N 141.65E 47–1 4.2,3.1s
IDC IV 24 14 34 03.4–1.3 38.00N 141.68E 47–12 4.3,4.1
NEIC IV 24 14 34 04.6–.50 38.03N 141.69E 62–4 4.6b,4.1
ISC Event type se.
MOS Error ellipse: s-maj=7.8km s-min=5.4km az=100.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ20.00000°,λ111.00000°. NP2:ϕ_s1.00000°,δ71.00000°,λ83.00000°. $M_0$2.65000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=7.7km az=99.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=113.0.
ISC IV 24 15 13 24.5–1.9 39.26N–.05 142.27E–.10 33–12 3.3b 20 0-67
ISCJB IV 24 15 13 24.4–1.1 39.24N–.04 142.3E–.10 48–8 3.4b **¶17201969**
JMA IV 24 15 13 25.4–.10 39.28N 142.24E 42–1 3.4
IDC IV 24 15 13 30.9–2.2 39.19N 142.08E 92–20 3.4,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=7.1km az=9.7.
JMA Event type fe.
IDC Error ellipse: s-maj=28.0km s-min=14.3km az=103.0.
ISC IV 24 20 54 25.5–1.1 35.75N–.07 140.73E–.09 7–11 3.6b 14 0-56
NIED IV 24 20 54 00 35.80N 140.80E 5 3.5W **¶600598530**
ISCJB IV 24 20 54 25.5–.66 35.77N–.05 140.74E–.07 9–6 3.5b
JMA IV 24 20 54 25.7 35.78N 140.78E 7–1 3.6
IDC IV 24 20 54 29.0–2.5 35.20N 139.89E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ38.00000°,λ-160.00000°. NP2:ϕ_s205.00000°,δ78.00000°,λ-54.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.5km az=147.0.
JMA Event type fe.
IDC Error ellipse: s-maj=77.0km s-min=23.9km az=63.0.
ISC IV 24 21 06 36.8–.39 35.25N–.03 141.02E–.03 29–2 5.1b,4.8s 1124 0-152
NIED IV 24 21 06 00 35.20N 141.30E 20 5.0W,4.8s **¶16453175**
IDC IV 24 21 06 32.0–.38 35.18N 141.13E 0 5.0,4.9
JMA IV 24 21 06 34.3–.10 35.23N 141.24E 40–2 5.1,4.9
BJI IV 24 21 06 34.9 35.29N 141.05E 37 4.9,4.9b
MOS IV 24 21 06 36.3–.91 35.24N 140.95E 35 5.3b,4.7s
ISCJB IV 24 21 06 36.4–.37 35.21N–.02 140.92E–.02 35–3 5.0b,4.8s
NEIC IV 24 21 06 38.6–.54 35.20N 140.93E 41–4 5.1b,4.8s
GCMT IV 24 21 06 38.6–.40 35.07N 141.02E 25 5.0W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ29.00000°,λ-169.00000°. NP2:ϕ_s216.00000°,δ85.00000°,λ-62.00000°. $M_0$3.62000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=9.0km az=89.0.
JMA Event type fe.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=108.6.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=172.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=153.0. Recorded [2 JMA] in Chiba, Ibaraki and Saitama.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c30; s62,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.54±.14 $M_{\theta\theta}$-2.32±.09; $M_{\phi\phi}$0.78±.11; $M_{r\theta}$3.11±.19; $M_{\theta\phi}$0.80±.08; $M_{\phi r}$0.42±.23; Best double couple: NP1:ϕ_s83.00000°,δ75.00000° ,λ73.00000°. NP2:ϕ_s314.00000°,δ22.00000°,λ139.00000°. Principal axes: T 3.4840,Plg56.0000°,Azm331.0000°; N 0.6160,Plg17.0000°,Azm87.0000° ; P -4.1000,Plg28.0000°,Azm187.0000° $M_0$3.79200×10^{16}
JMA IV 24 21 19 28.1–.20 39.11N 142.92E 32–3 3.5
¶600598544
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 24 22 37 56.1–1.3 36.8N–.10 141.90E–.08 19 3.4b 13 1-64
IDC IV 24 22 37 53.5–1.3 36.97N 142.08E 0 3.5,3.4L **¶600598601**
ISCJB IV 24 22 37 55.6–1.1 36.65N–.09 141.91E–.08 19 3.3b,3.4L
JMA IV 24 22 37 56.6–.20 36.56N 141.80E 61 3.1,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=36.0km s-min=30.1km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=8.4km az=22.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 24 22 44 13.2–1.5 36.42N–.05 140.85E–.07 27–10 3.7b 32 0-78
NIED IV 24 22 44 00 36.40N 141.00E 59 4.2W **¶17201991**
ISCJB IV 24 22 44 11.6–.93 36.38N–.04 141.04E–.07 34–8 3.6b
JMA IV 24 22 44 12.1–.10 36.37N 140.97E 38–1 3.6
IDC IV 24 22 44 14.4–1.8 36.34N 141.01E 42–16 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ13.00000°,λ77.00000°. NP2:ϕ_s116.00000°,δ77.00000°,λ93.00000°. $M_0$2.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.7km az=19.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.2km s-min=9.6km az=79.0.
ISC IV 24 23 20 42.9–1.7 37.23N–.04 141.56E–.06 11–9 3.9b 38 1-146
IDC IV 24 23 20 41.3–1.4 37.28N 141.67E 0 3.9,3.8 **¶16577882**
ISCJB IV 24 23 20 42.2–1.1 37.20N–.04 141.61E–.06 17–6 3.7b,3.8
JMA IV 24 23 20 44.4–.20 37.22N 141.47E 34–2 3.8,3.8
NEIC IV 24 23 20 46.6–1.4 36.92N 141.61E 50–8 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=25.4km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=28.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=22.0km s-min=8.7km az=149.0.
ISC IV 25 00 46 08.4–1.5 38.76N–.05 142.1E–.10 44–12 4.0b 35 0-78
ISCJB IV 25 00 46 08.1–.87 38.77N–.05 142.1E–.10 56–6 4.0b,4.0s **¶16577886**
JMA IV 25 00 46 08.7–.10 38.80N 142.11E 43–2 3.9,4.0s
IDC IV 25 00 46 11.1–2.2 38.65N 142.04E 73–21 4.0s,4.0
NEIC IV 25 00 46 12.4–.76 38.68N 142.02E 85–6 4.4b,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.5km az=12.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=12.8km az=90.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.3km az=118.0.
JMA IV 25 01 18 58.3 36.95N 140.60E 9–1 2.5
¶600598663

ISC IV 25 03 16 08.0–1.5 38.42N–.05 141.95E–.09 20–8 21 0-68
JMA IV 25 03 16 10.4–.10 38.44N 141.79E 53–1 3.8 **¶600598700**
IDC IV 25 03 16 12.1–1.6 39.17N 140.45E 0 3.7,3.7b
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=68.0km s-min=24.0km az=97.0.
ISC IV 25 04 56 59.8–.61 37.61N–.04 141.67E–.06 34–1 3.7b 39 1-90
ISCJB IV 25 04 56 59.6–.96 37.60N–.04 141.7E–.10 49–8 3.8b **¶17202017**
JMA IV 25 04 57 00.9–.10 37.63N 141.61E 44–2 4.0
IDC IV 25 04 57 01.5–.60 37.55N 141.63E 51–5 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.0km az=7.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=10.7km az=104.0.
ISC IV 25 05 25 37.2–2.1 36.97N–.05 141.90E–.07 4–12 3.6b 26 1-90
NIED IV 25 05 25 00 37.00N 141.70E 44 3.7W **¶16505523**
ISCJB IV 25 05 25 37.0–1.5 36.91N–.05 141.94E–.07 15–9 3.6b
JMA IV 25 05 25 41.1–.20 36.96N 141.71E 36–3 3.9
IDC IV 25 05 25 42.6–3.7 36.87N 141.80E 40–34 3.8L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ37.00000°,λ-81.00000°. NP2:ϕ_s32.00000°,δ53.00000°,λ-97.00000°. $M_0$3.85000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.4km az=19.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.7km s-min=15.9km az=88.0.
JMA IV 25 05 26 20.1–.10 35.46N 140.98E 19–2 3.7
NIED IV 25 05 26 00 35.50N 141.10E 17 3.6W **¶600598778**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ54.00000°,λ-138.00000°. NP2:ϕ_s340.00000°,δ57.00000°,λ-44.00000°. $M_0$2.57000×10^{14}
ISC IV 25 05 56 52.7–1.8 38.52N–.06 142.4E–.10 14 3.7b 13 1-62
IDC IV 25 05 56 53.5–2.9 37.62N 142.83E 0 3.8,3.7b **¶17202019**
JMA IV 25 05 56 53.9–.10 38.48N 142.30E 30–2 3.7,3.7b
ISCJB IV 25 05 56 54.0–1.9 38.50N–.05 142.3E–.10 14 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
JMA IV 25 06 11 40.8–.10 37.38N 141.33E 34–1 3.5
¶600598792
JMA Event type fe.
JMA IV 25 06 34 26.9–.10 36.30N 140.93E 38–1 3.0
¶600598801
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 25 06 41 23.1–.69 36.70N–.04 141.81E–.04 26–4 4.7b,4.1s 347 1-147
NIED IV 25 06 41 00 36.80N 141.70E 23 4.6W,4.1s **¶16456704**
BJI IV 25 06 41 23.2 36.81N 141.70E 43 4.9b,4.7b
ISCJB IV 25 06 41 23.4–.51 36.75N–.03 141.71E–.03 36–3 4.6b,4.0s
JMA IV 25 06 41 23.5–.20 36.76N 141.69E 47–3 4.5,4.0s
MOS IV 25 06 41 24.0–.91 36.84N 141.62E 38 5.0b,4.0s
NEIC IV 25 06 41 25.4–.59 36.74N 141.66E 39–5 4.6b,4.0s
IDC IV 25 06 41 25.6–1.9 36.75N 141.72E 42–16 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ17.00000°,λ97.00000°. NP2:ϕ_s22.00000°,δ73.00000°,λ88.00000°. $M_0$8.26000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.6km az=43.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=4.3km az=105.3.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=121.0.
IDC Error ellipse: s-maj=13.1km s-min=10.0km az=116.0.
ISC IV 25 07 54 54.4–1.5 35.25N–.08 141.26E–.10 10 11 1-59
IDC IV 25 07 54 30.3–34 38.09N 143.67E 0 3.6,3.5L **¶600598847**
ISCJB IV 25 07 54 53.0–1.3 35.22N–.06 141.3E–.10 10 3.5b,3.1s
JMA IV 25 07 54 54.8–.10 35.27N 141.21E 39–3 2.9,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=733.1km s-min=54.5km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.1km az=157.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 25 08 09 38.6–.10 38.15N 142.03E 49–1 3.7
¶600598853
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 25 08 31 42.9–4.0 38.76N–.05 142.21E–.07 17–25 3.6b 29 1-89
NIED IV 25 08 31 00 38.70N 142.20E 62 4.5W **¶17202027**
JMA IV 25 08 31 43.8–.10 38.74N 142.21E 31–1 3.8
IDC IV 25 08 31 48.0–2.7 38.77N 142.05E 61–24 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ45.00000°,λ63.00000°. NP2:ϕ_s329.00000°,δ51.00000°,λ114.00000°. $M_0$7.41000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=24.1km s-min=15.8km az=107.0.
ISC IV 25 09 00 20.1–.42 36.24N–.03 141.07E–.03 26–2 5.0b,4.5s 806 1-152
NIED IV 25 09 00 00 36.20N 141.10E 20 5.0W,4.5s **¶602557925**
IDC IV 25 09 00 15.8–.40 36.16N 140.95E 0 4.7,4.6L
BJI IV 25 09 00 16.6 36.05N 141.09E 26 5.0b,4.8b
JMA IV 25 09 00 18.5–.10 36.17N 141.03E 39–1 5.0,4.8b
ISCJB IV 25 09 00 19.6–.53 36.31N–.02 140.95E–.02 29–3 4.9b,4.5s
MOS IV 25 09 00 20.9–.83 36.54N 140.89E 30 5.2b,4.5s
GCMT IV 25 09 00 21.6–.20 36.25N 140.91E 27–0 5.1W,4.5s
NEIC IV 25 09 00 21.6–1.2 36.22N 140.89E 34–8 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ26.00000°,λ-70.00000°. NP2:ϕ_s184.00000°,δ66.00000°,λ-99.00000°. $M_0$3.54000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.0km az=88.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=165.2.
MOS Error ellipse: s-maj=6.6km s-min=4.4km az=105.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c53; s87,c137; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.05±.19 $M_{\theta\theta}$0.43±.13; $M_{\phi\phi}$3.62±.13; $M_{r\theta}$0.82±.24; $M_{\theta\phi}$1.53±.09; $M_{\phi r}$3.73±.23; Best double couple: NP1:ϕ_s195.00000°,δ66.00000°,λ-95.00000°. NP2:ϕ_s29.00000°,δ24.00000°,λ-78.00000°. Principal axes: T 5.7010,Plg21.0000°,Azm290.0000°; N -0.1300,Plg5.0000°,Azm198.0000° ; P -5.5710,Plg68.0000°,Azm95.0000° $M_0$5.63600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=144.0. Recorded [4 JMA] in Chiba and Ibaraki.
IDC IV 25 09 07 47.8–2.5 39.31N 142.95E 0 3.7,3.7b
¶17202033
IDC Error ellipse: s-maj=69.8km s-min=26.9km az=65.0.
ISC IV 25 10 22 36.4–1.5 36.26N–.04 141.01E–.06 5–10 3.8b 28 1-147
NIED IV 25 10 22 00 36.20N 141.00E 20 3.7W **¶16505526**
IDC IV 25 10 22 35.3–.74 36.11N 141.08E 0 3.9,3.7
JMA IV 25 10 22 38.2 36.16N 140.99E 39–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ32.00000°,λ-62.00000°. NP2:ϕ_s180.00000°,δ62.00000°,λ-106.00000°. $M_0$4.21000×10^{14}
IDC Error ellipse: s-maj=23.3km s-min=18.1km az=114.0.
JMA Event type fe.
ISC IV 25 10 29 53.6–1.0 36.24N–.05 140.98E–.09 31 3.6b 16 1-147
NIED IV 25 10 29 00 36.20N 141.00E 26 3.7W **¶17202039**
IDC IV 25 10 29 50.1–.75 36.05N 141.04E 0 3.8,3.7
ISCJB IV 25 10 29 53.1–.55 36.23N–.04 141.07E–.06 31 3.6b,3.4s
JMA IV 25 10 29 53.0–.10 36.17N 141.02E 39–1 3.7,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ36.00000°,λ-92.00000°. NP2:ϕ_s212.00000°,δ54.00000°,λ-89.00000°. $M_0$3.92000×10^{14}
IDC Error ellipse: s-maj=20.6km s-min=19.2km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.4km az=8.3.
JMA Event type fe.
JMA IV 25 10 43 17.1 36.93N 140.69E 5–2 1.9
¶602945448
ISC IV 25 10 43 25.6–1.3 35.69N–.06 140.27E–.09 50 3.6b 17 1-59
IDC IV 25 10 43 14.3–2.7 36.13N 141.21E 0 3.7,3.6 **¶17202041**
ISCJB IV 25 10 43 26.0–1.1 35.66N–.05 140.29E–.09 50 3.5b,3.3s
JMA IV 25 10 43 26.7–.10 35.72N 140.20E 63–2 2.7,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=25.4km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.9km az=165.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 25 11 16 43.6–.66 35.36N–.05 140.99E–.07 33 3.7b,3.0s 28 0-91
NIED IV 25 11 16 00 35.40N 141.10E 29 3.9W,3.0s **¶17202043**
IDC IV 25 11 16 39.4–.69 35.33N 141.07E 0 3.9,3.8
ISCJB IV 25 11 16 42.2–.49 35.31N–.03 141.03E–.06 33 3.7b,3.0s
JMA IV 25 11 16 42.4–.10 35.39N 140.99E 23–2 3.9,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ34.00000°,λ-151.00000°. NP2:ϕ_s138.00000°,δ75.00000°,λ-60.00000°. $M_0$7.89000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=14.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.0km az=173.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 25 15 08 16.4–1.6 35.68N–.05 141.21E–.08 26–10 3.8b 25 0-75
ISCJB IV 25 15 08 16.6–.96 35.69N–.05 141.20E–.09 37–8 3.6b **¶16505529**
JMA IV 25 15 08 18.8–.10 35.74N 141.01E 35–1 3.1
IDC IV 25 15 08 19.1–2.5 35.73N 141.21E 42–21 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=7.6km az=170.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=41.1km s-min=16.1km az=76.0.
ISC IV 25 15 13 19.4–.90 36.94N–.03 140.68E–.04 12–5 4.1b,3.2s 95 0-147
NIED IV 25 15 13 00 36.90N 140.60E 5 4.0W,3.2s **¶600599066**
IDC IV 25 15 13 17.9–.53 36.96N 140.62E 0 4.2,4.1
ISCJB IV 25 15 13 18.7–.49 36.93N–.02 140.79E–.04 18–3 4.1b,3.5s
JMA IV 25 15 13 19.5 36.95N 140.63E 5–2 4.3,3.5s
MOS IV 25 15 13 20.1–1.2 37.00N 140.78E 28 4.3b,3.5s
NEIC IV 25 15 13 24.0–.59 36.97N 140.56E 43–5 4.3b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ44.00000°,λ-91.00000°. NP2:ϕ_s67.00000°,δ46.00000°,λ-89.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=11.9km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.4km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s254.00000°,δ55.00000°,λ-107.00000°. NP2:ϕ_s102.00000°,δ39.00000°,λ-68.00000°. Principal axes: T Plg8.0000°,Azm356.0000°; N Plg14.0000°,Azm264.0000°; P Plg74.0000° ,Azm116.0000°
MOS Error ellipse: s-maj=10.1km s-min=6.6km az=85.7.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=118.0.
JMA IV 25 15 18 55.7 36.84N 140.65E 5–1 2.6
¶600599076
ISC IV 25 15 59 24.9–1.3 38.41N–.06 142.0E–.10 60–10 3.9b 39 1-146
NIED IV 25 15 59 00 38.40N 141.90E 59 3.8W **¶16505530**
ISCJB IV 25 15 59 23.9–.79 38.41N–.04 142.0E–.10 67–6 3.8b
JMA IV 25 15 59 25.1–.10 38.42N 141.92E 63–1 4.0
IDC IV 25 15 59 26.3–2.1 38.39N 141.98E 74–19 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ40.00000°,λ84.00000°. NP2:ϕ_s29.00000°,δ50.00000°,λ95.00000°. $M_0$5.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=5.6km az=17.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=13.3km az=97.0.
JMA IV 25 16 55 17.7–.10 36.31N 141.02E 46–1 2.6
¶603308259
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 25 19 23 00.7–1.1 35.69N–.06 141.87E–.08 22 3.6b 15 1-60
IDC IV 25 19 22 57.2–1.7 35.68N 141.95E 0 3.5,3.5b **¶600599247**
ISCJB IV 25 19 22 58.2–.92 35.77N–.06 142.00E–.07 22 3.5b,2.9s
JMA IV 25 19 23 01.1–.30 35.77N 141.83E 35–5 2.9,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=44.8km s-min=23.9km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.9km az=141.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 25 19 46 52.5–3.2 39.02N–.06 142.49E–.08 6–19 3.6b 21 1-67
JMA IV 25 19 46 55.9–.10 39.08N 142.40E 32–2 3.6 **¶17202075**
IDC IV 25 19 46 58.3–3.3 39.09N 142.56E 52–30 3.5,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.9km s-min=18.7km az=101.0.
ISC IV 25 20 11 28.9–1.9 36.29N–.04 141.35E–.06 9–12 3.9b 44 1-91
NIED IV 25 20 11 00 36.30N 141.30E 41 4.0W **¶16631206**
IDC IV 25 20 11 27.3–.58 36.24N 141.37E 0 4.1L,4.0
NEIC IV 25 20 11 31.8–2.5 36.21N 141.29E 29–18 4.2b,4.0
JMA IV 25 20 11 32.0–.10 36.32N 141.26E 49–2 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ37.00000°,λ175.00000°. NP2:ϕ_s324.00000°,δ87.00000°,λ53.00000°. $M_0$1.27000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.3km az=106.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.4km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 25 20 24 37.3–1.5 37.09N–.04 141.18E–.05 9–9 3.5b 29 0-147
NIED IV 25 20 24 00 37.10N 141.10E 26 3.5W **¶602557927**
ISCJB IV 25 20 24 36.0–1.2 37.06N–.04 141.31E–.06 15–8 3.5b
IDC IV 25 20 24 35.5–.76 37.05N 141.33E 0 3.6,3.5
JMA IV 25 20 24 38.8–.10 37.09N 141.09E 32–1 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ39.00000°,λ-42.00000°. NP2:ϕ_s208.00000°,δ65.00000°,λ-121.00000°. $M_0$2.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.8km az=21.9.
IDC Error ellipse: s-maj=22.0km s-min=15.9km az=114.0.
JMA Event type fe.
ISC IV 25 20 51 15.0–1.9 35.99N–.07 140.74E–.08 1–15 3.5b 15 0-65
NIED IV 25 20 51 00 35.90N 141.10E 8 3.4W **¶17202077**
JMA IV 25 20 51 13.7–.20 35.92N 141.12E 21–2 3.5
IDC IV 25 20 51 15.3–1.2 35.89N 140.60E 0 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ36.00000°,λ-113.00000°. NP2:ϕ_s44.00000°,δ57.00000°,λ-74.00000°. $M_0$1.47000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.9km s-min=21.5km az=55.0.
ISC IV 25 21 12 43.9–1.6 35.90N–.09 141.4E–.10 26 3.3b 15 0-56
JMA IV 25 21 12 50.6–.30 35.50N 140.99E 36–3 2.6 **¶17202078**
IDC IV 25 21 12 51.0–6.5 35.71N 140.90E 72–41 3.3,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=86.4km s-min=16.3km az=76.0.
ISC IV 25 21 16 22.5–1.1 38.29N–.05 141.96E–.07 62–9 4.5b 56 1-146
ISCJB IV 25 21 16 21.9–.60 38.32N–.04 141.90E–.07 71–4 4.5b **¶16459947**
JMA IV 25 21 16 23.2–.10 38.35N 141.87E 64–1 4.5
NEIC IV 25 21 16 24.5–.95 38.31N 141.85E 79–8 4.7b
IDC IV 25 21 16 24.8–2.6 38.29N 141.88E 79–24 4.5,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.4km az=20.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.8km az=127.0. Recorded [3 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=19.0km s-min=15.1km az=67.0.
ISC IV 25 21 35 37.6–2.3 39.18N–.05 142.4E–.10 23–15 3.5b 22 1-63
ISCJB IV 25 21 35 36.9–1.4 39.17N–.04 142.46E–.09 25–8 3.4b **¶17202079**
JMA IV 25 21 35 37.8–.10 39.18N 142.40E 33–1 3.8
IDC IV 25 21 35 40.9–3.0 38.98N 142.75E 47–30 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.2km az=1.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=20.5km az=101.0.
ISC IV 25 21 42 16.0–.87 36.73N–.05 140.55E–.05 14–6 3.6b 22 0-91
IDC IV 25 21 42 14.3–.89 36.97N 140.63E 0 3.7,3.5 **¶600599349**
ISCJB IV 25 21 42 15.5–.82 36.65N–.04 140.73E–.06 18–5 3.5b,3.5

JMA IV 25 21 42 17.1 36.70N 140.60E 7–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.5km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.6km az=36.4.
JMA Event type fe.
ISC IV 25 22 42 29.9–2.3 36.84N–.05 140.86E–.10 7–15 3.5b 15 0-61
NIED IV 25 22 42 00 36.90N 140.70E 5 3.6W **¶17202086**
IDC IV 25 22 42 28.7–2.1 36.90N 140.92E 0 3.7,3.7L
ISCJB IV 25 22 42 30.3–1.1 36.79N–.04 140.90E–.09 19–6 3.4b,3.4s
JMA IV 25 22 42 32.4 36.85N 140.69E 9–1 3.8,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ33.00000°,λ-51.00000°. NP2:ϕ_s138.00000°,δ65.00000°,λ-112.00000°. $M_0$3.06000×10^{14}
IDC Error ellipse: s-maj=43.8km s-min=26.1km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.4km az=21.8.
JMA Event type fe.
ISC IV 25 22 51 56.2–.49 35.52N–.04 141.09E–.06 33 4.1b 64 0-148
NIED IV 25 22 51 00 35.60N 141.10E 32 4.1W **¶16681483**
IDC IV 25 22 51 51.2–.59 35.51N 141.19E 0 4.0,3.9
ISCJB IV 25 22 51 54.3–.37 35.55N–.03 141.17E–.05 33 4.0b,3.9
JMA IV 25 22 51 54.2–.20 35.61N 141.07E 23–1 3.6,3.9
NEIC IV 25 22 51 56.9–.34 35.48N 141.13E 40 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ46.00000°,λ-135.00000°. NP2:ϕ_s169.00000°,δ59.00000°,λ-54.00000°. $M_0$1.47000×10^{15}
IDC Error ellipse: s-maj=18.8km s-min=13.1km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.6km az=13.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.4km az=68.0.
ISC IV 25 23 15 02.0–2.4 38.41N–.04 142.30E–.07 12–13 3.8b 35 1-74
NIED IV 25 23 15 00 38.40N 142.20E 26 3.8W **¶17202089**
JMA IV 25 23 15 03.7–.10 38.44N 142.25E 29–2 3.8
IDC IV 25 23 15 07.2–2.4 38.34N 142.31E 52–22 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ21.00000°,λ-76.00000°. NP2:ϕ_s297.00000°,δ70.00000°,λ-95.00000°. $M_0$5.40000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=14.2km az=107.0.
ISC IV 25 23 24 50.6–.78 36.31N–.04 141.17E–.06 29–4 4.4b 84 1-147
NIED IV 25 23 24 00 36.30N 141.10E 38 4.4W **¶16708010**
ISCJB IV 25 23 24 50.6–.62 36.32N–.03 141.10E–.06 42–4 4.3b
JMA IV 25 23 24 50.8–.10 36.32N 141.06E 48–1 4.1
NEIC IV 25 23 24 52.0–.84 36.23N 141.11E 44–7 4.6b
IDC IV 25 23 24 54.4–1.7 36.24N 140.99E 62–16 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ18.00000°,λ50.00000°. NP2:ϕ_s31.00000°,δ76.00000°,λ102.00000°. $M_0$3.84000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.8km az=8.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=7.4km az=117.0.
IDC Error ellipse: s-maj=14.5km s-min=10.7km az=86.0.
JMA IV 25 23 38 01.0–.20 39.13N 142.96E 33–4 3.6
¶600599416
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 25 23 55 31.7–3.8 36.5N–.10 141.0E–.20 10 3.5b 7 0-67
JMA IV 25 23 55 32.9–.10 36.48N 140.93E 33–1 3.1 **¶17202093**
IDC IV 25 23 55 35.4–3.1 36.72N 142.00E 0 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=74.0km s-min=35.4km az=57.0.
ISC IV 26 00 30 47.4–1.1 36.70N–.05 140.63E–.08 7–8 15 0-57
ISCJB IV 26 00 30 46.5–1.0 36.67N–.05 140.69E–.09 11–4 3.5b **¶600599456**
IDC IV 26 00 30 46.8–2.5 36.72N 140.59E 0 3.7,3.5
JMA IV 26 00 30 47.4 36.71N 140.60E 6–1 3.2,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=5.2km az=33.4.
IDC Error ellipse: s-maj=46.0km s-min=33.4km az=32.0.
JMA Event type fe.
JMA IV 26 01 05 54.1–.10 39.21N 142.42E 35–2 3.6
NIED IV 26 01 05 00 39.20N 142.40E 35 3.7W **¶600599478**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ44.00000°,λ-81.00000°. NP2:ϕ_s55.00000°,δ47.00000°,λ-98.00000°. $M_0$3.90000×10^{14}
ISC IV 26 01 07 46.5–1.9 36.47N–.06 140.95E–.06 8–12 3.4b 19 0-64
NIED IV 26 01 07 00 36.50N 140.90E 11 3.6W **¶17202097**
IDC IV 26 01 07 44.8–1.1 36.33N 140.99E 0 3.5,3.4
ISCJB IV 26 01 07 46.2–1.1 36.45N–.05 141.05E–.07 19–8 3.8s,3.3b
JMA IV 26 01 07 47.8–.10 36.48N 140.92E 32–1 3.9,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ44.00000°,λ-51.00000°. NP2:ϕ_s322.00000°,δ57.00000°,λ-122.00000°. $M_0$2.82000×10^{14}
IDC Error ellipse: s-maj=24.8km s-min=24.1km az=58.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=32.4.
JMA Event type fe.
ISC IV 26 01 29 29.4–2.2 37.42N–.05 141.76E–.08 0–13 3.7b 22 1-69
ISCJB IV 26 01 29 27.9–1.5 37.44N–.04 141.88E–.07 1–7 3.7b **¶17202099**
IDC IV 26 01 29 28.9–1.8 37.39N 141.92E 0 3.7,3.6b
JMA IV 26 01 29 30.9–.20 37.44N 141.79E 26–3 3.6,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.4km az=19.9.
IDC Error ellipse: s-maj=39.4km s-min=31.2km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 26 01 35 08.5–.10 38.41N 142.12E 35–1 4.1
NIED IV 26 01 35 00 38.40N 142.10E 35 4.0W **¶600599493**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ32.00000°,λ-129.00000°. NP2:ϕ_s322.00000°,δ66.00000°,λ-69.00000°. $M_0$1.06000×10^{15}
JMA IV 26 01 40 25.5–.10 35.40N 140.99E 20–2 3.0
¶600599498
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 26 01 57 55.5–.70 38.51N–.05 142.90E–.06 23 3.6b 32 1-88
IDC IV 26 01 57 52.2–.78 38.46N 143.28E 0 3.9,3.8L **¶16577893**
JMA IV 26 01 57 53.8–.20 38.49N 142.96E 13–3 3.8,3.8L
ISCJB IV 26 01 57 54.1–.53 38.48N–.04 143.04E–.06 23 3.7b,3.8L
NEIC IV 26 01 57 57.8–1.8 38.46N 143.08E 38–17 4.1b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=32.3km s-min=16.7km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=6.1km az=34.5.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=11.1km az=116.0.
ISC IV 26 02 16 43.6–1.1 39.89N–.04 142.24E–.08 46–8 3.9b 36 0-77
NIED IV 26 02 16 00 39.90N 142.30E 35 3.8W **¶16505533**
ISCJB IV 26 02 16 42.7–.73 39.91N–.04 142.28E–.09 55–5 3.7b
JMA IV 26 02 16 43.0–.10 39.95N 142.31E 42–1 3.7
IDC IV 26 02 16 45.6–2.2 39.93N 142.30E 66–18 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ31.00000°,λ156.00000°. NP2:ϕ_s4.00000°,δ78.00000°,λ61.00000°. $M_0$6.63000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=5.9km az=6.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=13.6km az=103.0.
JMA IV 26 02 24 57.9 36.99N 140.77E 10–1 3.0
¶600599520
ISC IV 26 02 25 54.5–.93 36.74N–.04 140.62E–.05 11–6 3.9b 36 0-147
NIED IV 26 02 25 00 36.80N 140.60E 5 3.9W **¶600599521**
ISCJB IV 26 02 25 53.3–.71 36.70N–.04 140.73E–.06 17–4 3.8b
JMA IV 26 02 25 54.3 36.75N 140.59E 4–1 3.7
IDC IV 26 02 25 58.4–2.8 36.75N 140.52E 38–24 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ23.00000°,λ-90.00000°. NP2:ϕ_s176.00000°,δ67.00000°,λ-90.00000°. $M_0$8.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.1km az=29.0.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=103.0.
ISC IV 26 02 27 18.1–.67 36.74N–.03 140.60E–.05 15–4 4.2b 75 0-147
NIED IV 26 02 27 00 36.80N 140.60E 5 4.1W **¶16505534**
ISCJB IV 26 02 27 16.4–.62 36.69N–.03 140.78E–.04 18–4 4.2b,3.2s
JMA IV 26 02 27 17.9 36.76N 140.60E 4–1 3.9,3.2s
NEIC IV 26 02 27 17.5–.29 36.75N 140.60E 10 4.1b,3.2s
MOS IV 26 02 27 18.8–1.2 36.77N 140.75E 33 4.4b,3.2s
IDC IV 26 02 27 23.1–2.1 36.71N 140.53E 53–19 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ30.00000°,λ-102.00000°. NP2:ϕ_s195.00000°,δ61.00000°,λ-83.00000°. $M_0$1.48000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=19.9.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=7.2km az=69.0.
MOS Error ellipse: s-maj=10.5km s-min=7.8km az=109.3.
IDC Error ellipse: s-maj=14.9km s-min=10.3km az=58.0.
ISC IV 26 02 38 15.2–1.7 38.37N–.04 142.14E–.06 12–10 3.6b 31 1-146
JMA IV 26 02 38 17.4–.10 38.49N 142.15E 27–1 4.1 **¶17202103**
IDC IV 26 02 38 23.7–3.9 38.42N 142.01E 78–36 3.5,3.4
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.0km s-min=16.5km az=95.0.
ISC IV 26 03 39 33.4–1.1 36.77N–.03 140.53E–.05 5–7 3.9b 43 0-147
NIED IV 26 03 39 00 36.80N 140.60E 5 3.9W **¶16577894**
ISCJB IV 26 03 39 32.7–.62 36.76N–.03 140.71E–.05 13–3 3.8b,2.9s
IDC IV 26 03 39 32.4–.61 36.77N 140.55E 0 4.1,4.0
JMA IV 26 03 39 33.3 36.76N 140.59E 4–1 3.8,4.0
NEIC IV 26 03 39 36.2–2.2 36.79N 140.52E 26–15 4.1b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ36.00000°,λ-88.00000°. NP2:ϕ_s200.00000°,δ54.00000°,λ-92.00000°. $M_0$8.34000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=31.0.
IDC Error ellipse: s-maj=16.7km s-min=13.9km az=133.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s53.00000°,δ51.00000°,λ-70.00000°. NP2:ϕ_s203.00000°,δ43.00000°,λ-113.00000°. Principal axes: T Plg4.0000°,Azm129.0000°; N Plg15.0000°,Azm220.0000°; P Plg74.0000° ,Azm24.0000°
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.4km az=139.0.
ISC IV 26 03 42 31.2–1.2 36.72N–.04 140.67E–.06 6–8 3.4b 17 0-147
ISCJB IV 26 03 42 30.6–.76 36.72N–.04 140.69E–.07 7–4 3.4b,2.8s **¶17202106**
IDC IV 26 03 42 30.5–1.1 36.52N 140.66E 0 3.7,3.4
JMA IV 26 03 42 31.3 36.76N 140.59E 5–1 3.3,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.0km az=28.9.
IDC Error ellipse: s-maj=30.3km s-min=22.4km az=144.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s8.00000°,δ61.00000°,λ-103.00000°. NP2:ϕ_s214.00000°,δ32.00000°,λ-68.00000°. Principal axes: T Plg15.0000°,Azm108.0000°; N Plg11.0000°,Azm15.0000°; P Plg71.0000° ,Azm249.0000°
ISC IV 26 04 01 49.8–.41 37.29N–.03 141.30E–.03 24–2 4.9b,4.4s 744 0-152
NIED IV 26 04 01 00 37.30N 141.30E 5 4.8W,4.4s **¶602557962**
IDC IV 26 04 01 45.9–.44 37.28N 141.14E 0 4.8,4.7
ISCJB IV 26 04 01 46.8–.59 37.28N–.02 141.26E–.02 13–3 4.8b,4.4s
JMA IV 26 04 01 47.3 37.29N 141.25E 13–1 5.2,4.4s
MOS IV 26 04 01 50.3–.98 37.44N 141.17E 35 5.1b,4.2s
NEIC IV 26 04 01 51.6–.49 37.30N 141.19E 37–4 4.9b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ44.00000°,λ-95.00000°. NP2:ϕ_s270.00000°,δ46.00000°,λ-85.00000°. $M_0$2.10000×10^{16}
IDC Error ellipse: s-maj=13.9km s-min=10.6km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=149.7.
JMA Event type fe.
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=96.6.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=139.0. Recorded [3 JMA] in Fukushima.
ISC IV 26 04 14 41.5–1.2 38.28N–.05 141.84E–.08 54–9 3.8b 52 0-146
NIED IV 26 04 14 00 38.30N 141.80E 62 4.1W **¶17202108**
ISCJB IV 26 04 14 40.7–.63 38.28N–.04 141.81E–.07 65–4 3.8b
JMA IV 26 04 14 42.0 38.29N 141.76E 56–1 4.2
IDC IV 26 04 14 43.4–2.4 38.23N 141.72E 74–22 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ75.00000°,λ-167.00000°. NP2:ϕ_s333.00000°,δ77.00000°,λ-16.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=22.3.
JMA Event type fe.
IDC Error ellipse: s-maj=18.3km s-min=14.2km az=85.0.
JMA IV 26 04 52 19.4 36.88N 140.69E 5 1.5
¶600599600
ISC IV 26 04 52 20.2–.67 38.29N–.04 141.87E–.07 49–5 3.9b 45 0-146
NIED IV 26 04 52 00 38.30N 141.80E 50 4.0W **¶16505536**
ISCJB IV 26 04 52 18.7–.77 38.27N–.04 141.89E–.09 53–6 3.8b,2.6s
JMA IV 26 04 52 19.9–.10 38.30N 141.84E 46–1 3.7,2.6s
IDC IV 26 04 52 20.3–.60 38.23N 141.82E 52–5 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ23.00000°,λ88.00000°. NP2:ϕ_s32.00000°,δ67.00000°,λ91.00000°. $M_0$1.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.2km az=17.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=10.3km az=107.0.
ISC IV 26 05 12 19.7–2.6 37.76N–.05 142.0E–.10 4–14 14 1-58
JMA IV 26 05 12 21.3–.10 37.77N 141.95E 14–2 3.6 **¶17202110**
IDC IV 26 05 12 24.7–3.3 36.89N 142.54E 0 3.5,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=79.4km s-min=37.2km az=54.0.
JMA IV 26 06 50 18.6 36.92N 140.69E 9–1 3.5
¶600599677
JMA Event type fe.
JMA IV 26 07 40 55.1–.10 36.17N 140.99E 39–1 2.9
¶600599692
ISC IV 26 08 24 52.9–.92 36.46N–.05 140.64E–.06 51–7 3.5b 27 0-80
NIED IV 26 08 24 00 36.40N 140.60E 53 3.8W **¶600599728**
IDC IV 26 08 24 45.2–1.3 36.36N 140.81E 0 3.7,3.6
ISCJB IV 26 08 24 51.8–.60 36.44N–.04 140.63E–.07 59–4 4.2s,3.5b
JMA IV 26 08 24 52.7–.10 36.43N 140.59E 53–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ37.00000°,λ-28.00000°. NP2:ϕ_s216.00000°,δ73.00000°,λ-123.00000°. $M_0$5.03000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=24.8km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.9km az=24.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s27.00000°,δ86.00000°,λ135.00000°. NP2:ϕ_s120.00000°,δ45.00000°,λ5.00000°. Principal axes: T Plg33.0000°,Azm333.0000°; N Plg45.0000°,Azm203.0000°; P Plg27.0000° ,Azm83.0000°
ISC IV 26 09 20 55.1–1.1 35.98N–.05 140.14E–.07 67–8 3.6b 21 0-56
IDC IV 26 09 20 53.4–6.5 36.10N 140.39E 60–49 3.6,3.4 **¶600599761**
ISCJB IV 26 09 20 54.1–.80 35.97N–.04 140.15E–.08 73–6 3.5b,3.4
JMA IV 26 09 20 56.0–.10 36.03N 140.08E 62–1 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=61.3km s-min=27.2km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.0km az=7.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 26 10 31 01.1–.10 39.22N 142.57E 27–2 2.7
¶17202123
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 26 10 31 02.1–.10 36.16N 140.96E 36–1 2.6
¶600599817
ISC IV 26 10 31 57.6–1.5 37.79N–.04 141.80E–.09 45–15 3.6b 39 1-89
NIED IV 26 10 31 00 37.80N 141.70E 50 3.6W **¶600599818**
ISCJB IV 26 10 31 57.2–.79 37.81N–.04 141.74E–.09 59–7 3.7b

IDC IV 26 10 31 57.9–2.2 37.72N 141.75E 51–22 3.6,3.6
JMA IV 26 10 31 58.4 37.82N 141.68E 53–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ44.00000°,λ84.00000°. NP2:ϕ_s35.00000°,δ46.00000°,λ96.00000°. $M_0$3.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.3km az=18.0.
IDC Error ellipse: s-maj=23.1km s-min=12.3km az=96.0.
JMA Event type fe.
ISC IV 26 10 33 39.2–2.2 39.16N–.05 142.4E–.10 24–13 3.8b 19 1-59
NIED IV 26 10 33 00 39.20N 142.40E 38 3.7W **¶17202124**
IDC IV 26 10 33 32.8–2.9 39.38N 143.07E 0 3.8,3.6
ISCJB IV 26 10 33 38.9–1.6 39.17N–.04 142.5E–.10 30–7 3.6b,3.6
JMA IV 26 10 33 40.1–.10 39.19N 142.38E 31–1 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ31.00000°,λ-127.00000°. NP2:ϕ_s180.00000°,δ66.00000°,λ-70.00000°. $M_0$3.38000×10^{14}
IDC Error ellipse: s-maj=70.9km s-min=32.2km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.8km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 26 11 00 46.0–1.7 38.25N–.04 142.01E–.08 32–11 3.6b 23 1-62
IDC IV 26 11 00 39.6–2.3 38.42N 142.41E 0 3.9,3.9s **¶17202125**
JMA IV 26 11 00 48.1–.10 38.31N 141.88E 44–1 3.6,3.9s
ISC Event type ke.
IDC Error ellipse: s-maj=57.7km s-min=31.3km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 26 12 26 54.9–.40 38.37N–.04 141.87E–.04 54–2 4.4b,3.9s 206 0-151
NIED IV 26 12 26 00 38.40N 141.80E 59 4.5W,3.9s **¶16460945**
ISCJB IV 26 12 26 53.6–.40 38.35N–.02 141.87E–.04 60–2 4.4b,3.9s
MOS IV 26 12 26 53.4–1.0 38.41N 141.91E 59 4.8b,3.9s
JMA IV 26 12 26 55.5 38.40N 141.76E 56–1 4.3,3.9s
NEIC IV 26 12 26 56.6–.57 38.39N 141.77E 68–5 4.6b,3.9s
IDC IV 26 12 26 58.3–.55 38.37N 141.64E 81–4 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ27.00000°,λ104.00000°. NP2:ϕ_s7.00000°,δ64.00000°,λ83.00000°. $M_0$5.74000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.3km az=23.5.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=100.2.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=118.0.
IDC Error ellipse: s-maj=10.7km s-min=9.3km az=100.0.
ISC IV 26 12 35 38.7–.50 35.57N–.04 141.30E–.06 33 4.1b 53 0-147
NIED IV 26 12 35 00 35.60N 141.20E 23 4.2W **¶16505538**
JMA IV 26 12 35 36.9–.20 35.64N 141.23E 25–1 3.6
ISCJB IV 26 12 35 37.4–.37 35.64N–.03 141.33E–.05 33 4.0b
NEIC IV 26 12 35 39.5–.34 35.60N 141.24E 35 4.3b
IDC IV 26 12 35 40.2–2.6 35.55N 141.20E 39–23 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ46.00000°,λ-113.00000°. NP2:ϕ_s6.00000°,δ49.00000°,λ-68.00000°. $M_0$2.31000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=17.2.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.3km az=96.0.
IDC Error ellipse: s-maj=16.5km s-min=12.5km az=86.0.
ISC IV 26 13 01 55.7–2.3 36.98N–.06 141.5E–.10 27–14 3.5b 19 1-57
NIED IV 26 13 01 00 36.90N 141.50E 41 3.6W **¶17202142**
IDC IV 26 13 01 50.4–2.0 37.05N 141.82E 0 3.7,3.6
ISCJB IV 26 13 01 54.6–1.2 36.92N–.05 141.6E–.10 37–12 3.5b,3.2s
JMA IV 26 13 01 55.3–.20 36.93N 141.48E 46–2 3.8,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ13.00000°,λ-123.00000°. NP2:ϕ_s20.00000°,δ79.00000°,λ-83.00000°. $M_0$2.77000×10^{14}
IDC Error ellipse: s-maj=41.5km s-min=25.1km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.8km az=179.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 26 13 13 09.6–1.5 36.58N–.05 140.91E–.07 31–12 23 0-57
NIED IV 26 13 13 00 36.50N 141.10E 11 3.6W **¶17202143**
ISCJB IV 26 13 13 06.8–1.1 36.54N–.04 141.15E–.07 22–6 3.5b
JMA IV 26 13 13 07.8–.10 36.52N 141.07E 38–1 3.9
IDC IV 26 13 13 09.6–2.7 36.61N 141.26E 52–29 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ82.00000°,λ-176.00000°. NP2:ϕ_s224.00000°,δ86.00000°,λ-8.00000°. $M_0$2.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.6km az=21.3.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=14.3km az=69.0.
ISC IV 26 14 53 41.6–2.4 39.04N–.08 142.4E–.10 25–15 3.6b 17 1-63
NIED IV 26 14 53 00 39.10N 142.40E 47 3.7W **¶17202152**
ISCJB IV 26 14 53 41.1–1.5 39.00N–.06 142.43E–.09 30–8 3.5b
JMA IV 26 14 53 42.4–.20 39.09N 142.38E 32–2 3.9
IDC IV 26 14 53 50.4–4.1 38.87N 142.41E 104–37 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ21.00000°,λ-163.00000°. NP2:ϕ_s166.00000°,δ84.00000°,λ-70.00000°. $M_0$4.43000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=8.6km az=35.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.6km s-min=19.9km az=80.0.
ISC IV 26 14 53 43.3–1.4 36.96N–.04 140.84E–.07 18–4 17 0-61
ISCJB IV 26 14 53 43.8–1.1 36.98N–.03 140.86E–.09 9–5 3.7b **¶17202153**
JMA IV 26 14 53 44.1 36.98N 140.85E 8–2 2.9
IDC IV 26 14 54 02.4–16 37.28N 138.81E 0 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=5.0km az=14.2.
IDC Error ellipse: s-maj=441.6km s-min=49.0km az=144.0.
ISC IV 26 17 06 43.6–.99 35.88N–.06 141.43E–.08 26 3.6b 20 0-85
IDC IV 26 17 06 40.3–1.5 35.95N 141.62E 0 3.7,3.7 **¶17202165**
ISCJB IV 26 17 06 43.2–.85 35.84N–.05 141.37E–.08 26 3.9s,3.6b
JMA IV 26 17 06 45.1–.20 35.85N 141.23E 29–2 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=16.8km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.6km az=173.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 26 17 14 44.0–2.0 37.67N–.05 141.89E–.08 14–11 3.6b 22 1-58
IDC IV 26 17 14 42.4–2.2 37.64N 142.01E 0 3.5,3.5 **¶17202167**
ISCJB IV 26 17 14 43.9–1.6 37.68N–.04 141.9E–.10 23–11 3.5b,3.5
JMA IV 26 17 14 45.0–.10 37.72N 141.89E 26–3 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=51.1km s-min=26.7km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.7km az=16.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 26 18 17 56.7–3.7 37.44N–.04 141.38E–.07 10–24 3.5b 26 0-74
NIED IV 26 18 17 00 37.50N 141.30E 29 3.8W **¶17202175**
IDC IV 26 18 17 55.2–.90 37.41N 141.41E 0 3.7,3.7L
ISCJB IV 26 18 17 57.1–.91 37.43N–.03 141.45E–.07 27–5 3.5b,3.7L
JMA IV 26 18 17 58.9–.10 37.48N 141.33E 29–1 4.0,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ67.00000°,λ-165.00000°. NP2:ϕ_s196.00000°,δ76.00000°,λ-24.00000°. $M_0$5.58000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=17.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.6km az=11.7.
JMA Event type fe.
ISC IV 26 19 23 33.7–1.8 36.83N–.05 141.45E–.08 15–10 3.4b 20 1-57
NIED IV 26 19 23 00 36.80N 141.30E 8 3.6W **¶17202180**
IDC IV 26 19 23 31.8–1.2 36.85N 141.41E 0 3.6,3.6
ISCJB IV 26 19 23 33.6–1.2 36.82N–.04 141.46E–.08 27–7 3.3b,3.6
JMA IV 26 19 23 35.2–.20 36.83N 141.34E 42–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ19.00000°,λ-89.00000°. NP2:ϕ_s38.00000°,δ71.00000°,λ-90.00000°. $M_0$3.06000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=20.9km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.3km az=7.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA IV 26 19 39 52.5–.20 38.79N 142.38E 20–4 3.5
¶600600171
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 26 20 07 12.8–2.2 36.17N–.06 141.08E–.09 24–14 3.3b 17 0-69
IDC IV 26 20 07 08.8–2.4 36.20N 141.27E 0 3.5,3.4 **¶17202182**
ISCJB IV 26 20 07 13.5–.97 36.17N–.05 141.04E–.09 40–8 4.0s,3.3b
JMA IV 26 20 07 14.3–.10 36.16N 140.95E 43–1 3.4,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=63.9km s-min=28.7km az=65.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=8.4km az=156.8.
JMA Event type fe.
ISC IV 26 22 35 32.2–.66 35.44N–.04 140.98E–.06 33 3.7b 26 0-86
NIED IV 26 22 35 00 35.40N 141.10E 23 4.2W **¶600600247**
IDC IV 26 22 35 28.2–.65 35.40N 141.15E 0 3.9,3.8
ISCJB IV 26 22 35 31.1–.48 35.36N–.04 141.10E–.07 33 4.2s,3.7b
JMA IV 26 22 35 31.8–.10 35.42N 140.99E 27–2 4.2,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ51.00000°,λ-135.00000°. NP2:ϕ_s27.00000°,δ56.00000°,λ-49.00000°. $M_0$2.29000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=15.0km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.1km az=167.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 26 23 13 14.2–1.6 39.26N–.06 142.4E–.20 39–6 4.0b 18 1-59
NIED IV 26 23 13 00 39.30N 142.40E 50 3.7W **¶17202194**
ISCJB IV 26 23 13 13.7–1.4 39.26N–.05 142.4E–.10 45–11 3.6b
JMA IV 26 23 13 14.1–.10 39.27N 142.40E 35–1 3.8
IDC IV 26 23 13 21.8–10 39.14N 142.06E 100–64 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ47.00000°,λ-61.00000°. NP2:ϕ_s208.00000°,δ50.00000°,λ-118.00000°. $M_0$3.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=17.9km s-min=7.6km az=9.1.
JMA Event type fe.
IDC Error ellipse: s-maj=138.2km s-min=24.4km az=71.0.
ISC IV 27 01 13 54.3–1.9 38.01N–.08 142.0E–.20 36–5 3.3b 16 1-63
ISCJB IV 27 01 13 53.9–1.4 38.02N–.06 142.0E–.10 46–16 3.4b **¶17202199**
JMA IV 27 01 13 54.8–.10 38.05N 141.94E 49–1 3.8
IDC IV 27 01 13 56.1–1.3 38.83N 142.80E 0 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=7.5km az=19.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=43.3km s-min=25.6km az=124.0.
JMA IV 27 01 49 59.9–.10 37.36N 141.86E 37–3 3.5
NIED IV 27 01 49 00 37.40N 141.90E 50 3.6W **¶600600377**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ48.00000°,λ123.00000°. NP2:ϕ_s62.00000°,δ52.00000°,λ59.00000°. $M_0$3.13000×10^{14}
JMA IV 27 02 38 37.6–.10 36.19N 140.86E 35–1 1.9
¶602945454
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 27 03 33 35.8–.10 38.32N 142.20E 36–2 3.8
NIED IV 27 03 33 00 38.30N 142.20E 32 3.6W **¶600600432**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s253.00000°,δ49.00000°,λ-23.00000°. NP2:ϕ_s358.00000°,δ73.00000°,λ-137.00000°. $M_0$2.54000×10^{14}
ISC IV 27 04 03 43.8–1.2 37.05N–.04 141.26E–.05 20–5 3.9b 41 0-147
NIED IV 27 04 03 00 37.00N 141.30E 11 3.9W **¶16505546**
ISCJB IV 27 04 03 42.4–.91 37.02N–.03 141.32E–.06 24–5 3.8b,3.4s
JMA IV 27 04 03 43.8–.10 37.04N 141.21E 28–1 4.0,3.4s
IDC IV 27 04 03 48.5–2.4 37.00N 141.09E 58–23 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ50.00000°,λ-49.00000°. NP2:ϕ_s212.00000°,δ55.00000°,λ-128.00000°. $M_0$7.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.4km az=21.5.
JMA Event type fe.
IDC Error ellipse: s-maj=17.8km s-min=16.6km az=81.0.
ISC IV 27 04 06 05.0–2.2 39.07N–.05 142.46E–.09 8–11 19 1-59
NIED IV 27 04 06 00 39.10N 142.30E 32 3.5W **¶17202206**
IDC IV 27 04 06 01.7–3.1 39.18N 142.88E 0 4.3,4.3s
ISCJB IV 27 04 06 06.7–1.6 39.03N–.05 142.5E–.10 25–7 4.2s,3.8b
JMA IV 27 04 06 08.7–.10 39.06N 142.35E 33–1 4.0,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ13.00000°,λ112.00000°. NP2:ϕ_s359.00000°,δ78.00000°,λ85.00000°. $M_0$2.14000×10^{14}
IDC Error ellipse: s-maj=71.6km s-min=39.1km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.7km az=4.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 27 04 23 56.9–1.4 37.09N–.05 141.55E–.07 42–13 3.8b 36 1-147
NIED IV 27 04 23 00 37.10N 141.40E 53 3.9W **¶17202207**
ISCJB IV 27 04 23 56.6–.80 37.08N–.04 141.53E–.08 54–6 3.8b
JMA IV 27 04 23 57.8–.10 37.10N 141.43E 54–1 3.9
IDC IV 27 04 24 00.6–2.6 37.08N 141.22E 75–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ27.00000°,λ71.00000°. NP2:ϕ_s193.00000°,δ64.00000°,λ100.00000°. $M_0$7.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.5km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=16.7km az=94.0.
JMA IV 27 04 36 27.9–.20 39.04N 142.41E 31–2 3.5
¶600600449
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 27 04 50 01.0–.20 38.56N 142.40E 16–3 3.6
NIED IV 27 04 50 00 38.60N 142.40E 44 3.9W **¶600600457**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ28.00000°,λ73.00000°. NP2:ϕ_s333.00000°,δ63.00000°,λ99.00000°. $M_0$7.61000×10^{14}
ISC IV 27 06 15 39.0–1.1 36.74N–.05 140.66E–.05 9–7 3.8b 25 0-74
NIED IV 27 06 15 00 36.70N 140.70E 5 3.7W **¶17202212**
IDC IV 27 06 15 37.5–1.6 36.77N 140.77E 0 3.9,3.8
ISCJB IV 27 06 15 38.4–.88 36.66N–.04 140.75E–.07 18–5 3.7b,3.8
JMA IV 27 06 15 39.7 36.72N 140.65E 6–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ47.00000°,λ-114.00000°. NP2:ϕ_s150.00000°,δ48.00000°,λ-67.00000°. $M_0$3.67000×10^{14}
IDC Error ellipse: s-maj=35.6km s-min=22.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=4.7km az=22.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s293.00000°,δ62.00000°,λ-120.00000°. NP2:ϕ_s163.00000°,δ40.00000°,λ-47.00000°. Principal axes: T Plg12.0000°,Azm44.0000°; N Plg26.0000°,Azm308.0000°; P Plg61.0000°,Azm156.0000°
ISC IV 27 07 03 20.8–.90 39.91N–.04 142.38E–.05 41–8 4.5b,3.7s 124 0-93
NIED IV 27 07 03 00 40.00N 142.40E 44 4.4W,3.7s **¶16466101**
MOS IV 27 07 03 18.9–1.3 40.00N 142.29E 33 4.7b,3.7s
JMA IV 27 07 03 20.8–.10 39.95N 142.34E 41–1 4.2,3.7s
ISCJB IV 27 07 03 20.3–.47 39.98N–.03 142.34E–.05 49–3 4.4b,3.7s
NEIC IV 27 07 03 20.7–.58 39.95N 142.35E 35 4.7b,3.7s
IDC IV 27 07 03 24.0–1.9 39.95N 142.24E 68–17 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ16.00000°,λ89.00000°. NP2:ϕ_s23.00000°,δ74.00000°,λ90.00000°. $M_0$4.55000×10^{15}
MOS Error ellipse: s-maj=9.0km s-min=5.7km az=91.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.3km az=31.6.
NEIC Event type fe. Error ellipse: s-maj=13.7km s-min=7.9km az=129.0. Recorded [2 JMA] in Iwate.
IDC Error ellipse: s-maj=14.2km s-min=11.4km az=116.0.
ISC IV 27 08 35 36.3–.81 35.68N–.05 140.87E–.07 44–7 4.0b 39 0-79
NIED IV 27 08 35 00 35.70N 140.80E 53 4.2W **¶16505549**
IDC IV 27 08 35 30.6–.81 35.68N 140.85E 0 4.0,4.0
ISCJB IV 27 08 35 34.8–.52 35.66N–.03 140.95E–.07 51–4 4.0b,3.0s
NEIC IV 27 08 35 34.2–1.9 35.61N 140.87E 26–14 4.4b,3.0s
JMA IV 27 08 35 36.5–.10 35.69N 140.74E 47–1 3.6,3.0s

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ20.00000°,λ88.00000°. NP2:ϕ_s355.00000°,δ70.00000°,λ91.00000°. $M_0$2.15000×10^{15}
IDC Error ellipse: s-maj=24.6km s-min=15.5km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.7km az=171.9.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.3km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s23.00000°,δ82.00000°,λ96.00000°. NP2: ϕ_s162.00000°,δ10.00000°,λ50.00000°. Principal axes: T Plg52.0000°,Azm300.0000° ; N Plg6.0000°,Azm202.0000°; P Plg37.0000°,Azm107.0000°

ISC	**IV**	**27 09 41 45.2–2.6**	**37.41N–.05**	**141.47E–.08**	**6–16**	**3.8b**	**21**	**0-61**
NIED	IV	27 09 41 00	37.40N	141.60E	5	4.0W		**¶17202224**
ISCJB	IV	27 09 41 42.6–1.3	37.39N–.04	141.70E–.06	3–6	4.0b,2.4s		
IDC	IV	27 09 41 44.2–1.2	37.35N	141.50E	0	3.7b,3.7		
JMA	IV	27 09 41 45.2	37.41N	141.59E	13–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_s220.00000°,δ56.00000°,λ-88.00000°. $M_0$9.71000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.2km az=22.0.
IDC Error ellipse: s-maj=30.7km s-min=24.6km az=91.0.

JMA	**IV**	**27 10 27 00.2–.20**	**38.12N**	**142.10E**	**16–1**	**3.5**		**¶600600635**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**27 11 12 45.5–1.2**	**38.40N–.05**	**141.85E–.09**	**54–10**	**3.6b**	**36**	**0-76**
ISCJB	IV	27 11 12 44.9–.67	38.41N–.04	141.84E–.08	65–6	3.5b		**¶17202230**
JMA	IV	27 11 12 46.3	38.40N	141.78E	58–1	3.8		
IDC	IV	27 11 12 46.4–2.5	38.45N	141.86E	64–23	3.6,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.2km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=29.9km s-min=16.6km az=97.0.

ISC	**IV**	**27 12 38 48.7–1.7**	**35.98N–.04**	**141.03E–.07**	**2–11**	**3.7b**	**24**	**0-91**
JMA	IV	27 12 38 52.4–.10	36.03N	141.06E	37–1	3.3		**¶16505551**
IDC	IV	27 12 38 54.3–2.2	36.00N	141.19E	44–20	3.7,3.6		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=15.0km az=94.0.

JMA	**IV**	**27 13 32 49.1–.10**	**36.07N**	**141.19E**	**31–2**	**3.5**		**¶600600728**

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**IV**	**27 13 55 24.8–.10**	**37.44N**	**141.52E**	**43–2**	**3.5**		
NIED	IV	27 13 55 00	37.50N	141.60E	47	3.6W		**¶600600737**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s273.00000°,δ16.00000°,λ157.00000°. NP2:ϕ_s25.00000°,δ84.00000°,λ76.00000°. $M_0$2.63000×10^{14}

JMA	**IV**	**27 14 42 05.4–.30**	**36.74N**	**141.86E**	**41**	**3.5**		
NIED	IV	27 14 42 00	36.70N	141.90E	23	3.6W		**¶600600754**

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ26.00000°,λ152.00000°. NP2:ϕ_s26.00000°,δ78.00000°,λ67.00000°. $M_0$2.60000×10^{14}

JMA	**IV**	**27 17 18 51.2–.10**	**36.26N**	**141.12E**	**45–2**	**3.0**		**¶600600869**

ISC	**IV**	**27 19 27 08.8–1.7**	**36.3N–.10**	**141.7E–.10**	**19**	**3.4b**	**9**	**3-45**
IDC	IV	27 19 27 06.5–9.0	36.53N	141.85E	0	3.5b,3.4		**¶16708185**

ISC Event type ke.
IDC Error ellipse: s-maj=152.2km s-min=65.4km az=136.0.

ISC	**IV**	**27 19 27 14.1–.76**	**36.29N–.05**	**142.00E–.09**	**19**	**4.2b**	**59**	**1-75**
NIED	IV	27 19 27 00	36.30N	142.30E	23	4.2W		**¶17202253**
JMA	IV	27 19 27 11.1–.40	36.29N	142.28E	17	3.8		
ISCJB	IV	27 19 27 11.7–.57	36.26N–.04	142.23E–.08	19	4.0b,3.7s		
IDC	IV	27 19 27 11.3–.85	36.19N	141.94E	0	3.9,3.9b		
MOS	IV	27 19 27 13.9–1.3	36.23N	142.15E	33	4.5b,3.9b		
NEIC	IV	27 19 27 15.5–3.4	36.18N	141.95E	28–23	4.3b,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ30.00000°,λ81.00000°. NP2:ϕ_s22.00000°,δ61.00000°,λ95.00000°. $M_0$2.27000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.2km az=25.1.
IDC Error ellipse: s-maj=22.0km s-min=16.0km az=99.0.
MOS Error ellipse: s-maj=14.4km s-min=9.0km az=115.6.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=9.1km az=126.0.

ISC	**IV**	**27 19 49 33.3–1.2**	**36.24N–.04**	**141.05E–.07**	**30–9**	**3.5b**	**19**	**1-65**
IDC	IV	27 19 49 28.6–.95	36.10N	141.19E	0	3.6,3.5		**¶17202256**
ISCJB	IV	27 19 49 32.4–.77	36.22N–.04	141.07E–.08	41–8	3.4b,3.5		
JMA	IV	27 19 49 33.8–.10	36.23N	140.91E	46–1	3.3,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=18.4km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.0km az=176.7.

JMA	**IV**	**27 21 00 17.2–.10**	**36.27N**	**141.01E**	**45–1**	**3.0**		**¶600600987**

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**27 21 11 18.1–1.1**	**36.99N–.04**	**140.70E–.04**	**20–3**	**3.5b**	**21**	**0-57**
NIED	IV	27 21 11 00	37.00N	140.70E	5	3.6W		**¶17202259**
IDC	IV	27 21 11 14.8–2.0	36.95N	140.79E	0	3.7,3.6b		
ISCJB	IV	27 21 11 17.6–.68	36.99N–.03	140.75E–.06	25–4	3.5b,3.6b		
JMA	IV	27 21 11 18.5	37.00N	140.65E	17–1	3.5,3.6b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ21.00000°,λ-122.00000°. NP2:ϕ_s209.00000°,δ72.00000°,λ-78.00000°. $M_0$2.85000×10^{14}
IDC Error ellipse: s-maj=39.1km s-min=23.7km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=14.4.
JMA Event type fe.

ISC	**IV**	**27 21 45 02.5–.41**	**38.14N–.03**	**141.83E–.03**	**55–3**	**5.1b,4.5s**	**969**	**0-160**
MOS	IV	27 21 44 58.9–1.2	38.17N	141.87E	33	5.3b,4.5s		**¶16465539**
BJI	IV	27 21 45 00.2	38.11N	141.90E	58	4.9b,4.8b		
NIED	IV	27 21 45 00	38.10N	141.80E	53	4.7W,4.8b		
ISCJB	IV	27 21 45 02.5–.30	38.14N–.02	141.71E–.02	64–2	5.0b,4.8b		
JMA	IV	27 21 45 02.6–.10	38.13N	141.78E	53–1	4.8,4.8b		
IDC	IV	27 21 45 02.9–.54	38.13N	141.74E	58–4	4.9,4.7		
GCMT	IV	27 21 45 04.2–.50	38.42N	141.84E	56–1	5.0W,4.7		
NEIC	IV	27 21 45 04.2–.37	38.15N	141.65E	66–3	5.1b,4.7		

ISC Event type se.
MOS Error ellipse: s-maj=7.7km s-min=5.4km az=84.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ45.00000°,λ117.00000°. NP2:ϕ_s196.00000°,δ51.00000°,λ65.00000°. $M_0$1.31000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=157.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.7km s-min=9.1km az=117.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c46; s53,c69; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.22 $M_{\theta\theta}$-0.82±.15; $M_{\phi\phi}$-2.56±.15; $M_{r\theta}$1.36±.15; $M_{\theta\phi}$-1.16±.10; $M_{\phi r}$-0.79±.14; Best double couple: NP1:ϕ_s187.00000°,δ49.00000°,λ63.00000°. NP2:ϕ_s46.00000°,δ48.00000°,λ118.00000°. Principal axes: T 3.9680,Plg70.0000°,Azm29.0000°; N -0.8290,Plg20.0000°,Azm206.0000° ; P -3.1420,Plg1.0000°,Azm296.0000° $M_0$3.55500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=148.0. Recorded [3 JMA] in Iwate and Miyagi.

ISC	**IV**	**27 22 00 40.2–1.3**	**38.19N–.06**	**142.4E–.10**	**21–5**		**18**	**1-58**
IDC	IV	27 22 00 38.5–1.5	37.45N	144.00E	0	3.7,3.4		**¶17202262**
JMA	IV	27 22 00 45.2–.10	38.31N	142.16E	39–2	3.1,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=54.1km s-min=29.2km az=126.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**27 22 03 32.1–.86**	**37.94N–.05**	**141.80E–.09**	**55–7**	**3.6b**	**35**	**1-89**
NIED	IV	27 22 03 00	38.00N	141.70E	35	4.0W		**¶17202263**
ISCJB	IV	27 22 03 31.3–.81	37.96N–.04	141.8E–.10	63–6	3.6b		
IDC	IV	27 22 03 32.7–.82	37.95N	141.71E	60–7	3.7,3.6		
JMA	IV	27 22 03 32.3–.10	37.96N	141.74E	52–2	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ13.00000°,λ48.00000°. NP2:ϕ_s11.00000°,δ81.00000°,λ98.00000°. $M_0$1.10000×10^{15}

ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.9km az=11.3.
IDC Error ellipse: s-maj=18.7km s-min=14.0km az=86.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**27 22 04 24.7–.10**	**36.30N**	**140.89E**	**41–1**	**3.2**		**¶600601009**

ISC	**IV**	**27 22 29 28.6–1.0**	**36.94N–.03**	**140.67E–.04**	**8–7**	**3.6b**	**33**	**0-147**
NIED	IV	27 22 29 00	36.90N	140.70E	5	3.7W		**¶17202264**
ISCJB	IV	27 22 29 27.9–.61	36.92N–.03	140.77E–.05	15–5	3.6b		
IDC	IV	27 22 29 27.4–.76	36.88N	140.66E	0	3.8,3.7		
JMA	IV	27 22 29 28.6	36.95N	140.66E	7–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ43.00000°,λ-83.00000°. NP2:ϕ_s267.00000°,δ48.00000°,λ-96.00000°. $M_0$3.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=3.9km az=22.0.
IDC Error ellipse: s-maj=22.9km s-min=16.5km az=104.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s276.00000°,δ55.00000°,λ-105.00000°. NP2:ϕ_s120.00000°,δ38.00000°,λ-70.00000°. Principal axes: T Plg9.0000°,Azm16.0000°; N Plg12.0000°,Azm284.0000°; P Plg75.0000° ,Azm142.0000°

ISC	**IV**	**28 00 38 55.0–1.6**	**37.95N–.05**	**141.96E–.09**	**43–15**	**3.6b**	**41**	**1-146**
NIED	IV	28 00 38 00	38.00N	141.80E	56	3.9W		**¶17202269**
ISCJB	IV	28 00 38 54.6–.84	37.98N–.04	141.93E–.08	57–7	3.8b		
JMA	IV	28 00 38 55.8–.10	37.97N	141.84E	52–1	3.9		
IDC	IV	28 00 38 55.5–1.7	37.93N	141.89E	49–16	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ44.00000°,λ118.00000°. NP2:ϕ_s15.00000°,δ53.00000°,λ66.00000°. $M_0$8.65000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=22.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=10.7km az=98.0.

ISC	**IV**	**28 01 44 47.3–.51**	**38.57N–.04**	**141.92E–.03**	**50–4**	**4.9b,4.2s**	**598**	**1-155**
NIED	IV	28 01 44 00	38.60N	141.90E	53	4.8W,4.2s		**¶16465548**
MOS	IV	28 01 44 43.9–.99	38.62N	141.84E	33	5.3b,4.0s		
ISCJB	IV	28 01 44 46.9–.35	38.61N–.02	141.77E–.03	56–2	4.9b,4.1s		
JMA	IV	28 01 44 47.0–.10	38.56N	141.89E	48–1	4.8,4.1s		
IDC	IV	28 01 44 48.5–1.4	38.59N	141.79E	60–12	4.8,4.6		
NEIC	IV	28 01 44 49.0–.38	38.61N	141.75E	62–3	4.8b,4.6		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ20.00000°,λ90.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ90.00000°. $M_0$1.90000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=105.8.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=40.4.
JMA Event type fe.
IDC Error ellipse: s-maj=11.7km s-min=8.4km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.

ISC	**IV**	**28 02 46 22.5–1.5**	**38.17N–.05**	**141.89E–.09**	**41–14**	**3.6b**	**33**	**1-73**
ISCJB	IV	28 02 46 21.5–.82	38.16N–.03	141.92E–.09	52–7	3.7b		**¶17202272**
JMA	IV	28 02 46 23.1–.10	38.20N	141.81E	47–1	3.6		
IDC	IV	28 02 46 23.4–2.3	38.19N	141.95E	52–20	3.7,3.7L		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.1km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.6km s-min=14.1km az=99.0.

JMA	**IV**	**28 04 57 29.8–.10**	**39.55N**	**142.66E**	**24–1**	**3.6**		**¶600601236**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**28 05 06 51.6–2.1**	**36.83N–.05**	**141.44E–.09**	**15–10**	**3.4b**	**22**	**1-57**
NIED	IV	28 05 06 00	36.90N	141.20E	14	3.6W		**¶17202281**
IDC	IV	28 05 06 49.2–1.3	36.97N	141.67E	0	3.6,3.5		
ISCJB	IV	28 05 06 51.3–1.6	36.82N–.05	141.5E–.10	19–8	3.4b,3.5		
JMA	IV	28 05 06 54.6–.10	36.85N	141.22E	36–1	3.4,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ50.00000°,λ-128.00000°. NP2:ϕ_s57.00000°,δ53.00000°,λ-54.00000°. $M_0$2.50000×10^{14}
IDC Error ellipse: s-maj=29.5km s-min=27.4km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=14.8km s-min=7.2km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**28 05 09 04.2–.10**	**38.28N**	**141.80E**	**54–1**	**3.8**		**¶600601242**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**28 08 05 57.7–1.5**	**38.23N–.06**	**141.9E–.10**	**47–14**	**3.7b**	**38**	**0-146**
ISCJB	IV	28 08 05 57.3–.81	38.24N–.04	141.84E–.10	59–7	3.8b		**¶17202289**
JMA	IV	28 08 05 58.4–.10	38.25N	141.77E	56–1	3.9		
IDC	IV	28 08 05 58.7–2.8	38.21N	141.82E	58–26	3.8,3.8		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=5.5km az=18.8.
JMA Event type fe.
IDC Error ellipse: s-maj=26.6km s-min=14.6km az=115.0.

JMA	**IV**	**28 08 38 25.1–.20**	**37.46N**	**141.90E**	**16–2**	**3.6**		**¶600601368**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**28 09 15 03.4–.56**	**36.39N–.05**	**141.83E–.07**	**19**	**4.2b**	**63**	**1-147**
NIED	IV	28 09 15 00	36.40N	141.60E	11	4.3W		**¶16505560**
IDC	IV	28 09 15 00.4–.62	36.34N	141.89E	0	4.3,4.1L		
ISCJB	IV	28 09 15 01.4–.41	36.38N–.04	141.91E–.05	19	4.2b,4.1L		
NEIC	IV	28 09 15 02.4–3.4	36.40N	141.93E	12–20	4.5b,4.1L		
JMA	IV	28 09 15 04.1–.30	36.37N	141.65E	72	4.2,4.1L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ75.00000°,λ-5.00000°. NP2:ϕ_s114.00000°,δ85.00000°,λ-165.00000°. $M_0$2.72000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=14.0km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=33.5.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.7km az=143.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

ISC	**IV**	**28 09 27 47.9–.32**	**37.49N–.03**	**141.70E–.03**	**45–2**	**5.7b,5.1s**	**1736**	**1-164**
NIED	IV	28 09 27 00	37.40N	141.80E	47	5.6W,5.1s		**¶16465967**
BJI	IV	28 09 27 44.9	37.38N	141.72E	46	5.4b,5.3b		
MOS	IV	28 09 27 45.2–.78	37.68N	141.63E	28	5.8b,5.1s		
IDC	IV	28 09 27 45.5–4.6	37.44N	141.75E	28–31	5.4,5.3		
ISCJB	IV	28 09 27 46.9–.29	37.44N–.02	141.69E–.01	49–2	5.6b,5.2s		
JMA	IV	28 09 27 46.7–.10	37.41N	141.78E	44–3	5.7,5.2s		
NEIC	IV	28 09 27 47.2–.08	37.46N	141.65E	38	5.8b,5.5W		
GCMT	IV	28 09 27 47.2–.10	37.50N	141.85E	43–0	5.6W,5.5W		
NEIC	IV	28 09 27 48.0–.00	37.29N	141.65E	48	5.6W,5.5W		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ38.00000°,λ92.00000°. NP2:ϕ_s197.00000°,δ52.00000°,λ88.00000°. $M_0$2.72000×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.7km az=97.3.
IDC Error ellipse: s-maj=11.5km s-min=8.6km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=146.0. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c198; s118,c262;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.98±.04 $M_{\theta\theta}$-0.38±.03; $M_{\phi\phi}$-2.60±.03; $M_{r\theta}$-0.05±.03; $M_{\theta\phi}$-0.73±.02; $M_{\phi r}$-0.38±.03; Best double couple: NP1: ϕ_s196.00000°,δ49.00000°,λ89.00000°. NP2:ϕ_s18.00000°,δ41.00000°,λ92.00000°. Principal axes: T 3.0060,Plg86.0000°,Azm91.0000°; N -0.1580,Plg1.0000°,Azm196.0000° ; P -2.8430,Plg4.0000°,Azm287.0000° $M_0$2.92500×10^{17}
NEIC Event type se. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}2.28 $M_{\theta\theta}$-0.69 $M_{\phi\phi}$-1.58 $M_{r\theta}$0.11 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.07 Best double couple: NP1:ϕ_s18.00000° ,δ58.00000°,λ83.00000°. NP2:ϕ_s212.00000°,δ32.00000°,λ102.00000°. Principal axes: T 2.5600,Plg75.0000°,Azm266.0000°; N -0.4400,Plg6.0000°,Azm21.0000° ; P -2.1100,Plg13.0000°,Azm113.0000° $M_0$2.40000×10^{17}

ISC	**IV**	**28 09 50 47.1–2.0**	**37.41N–.06**	**141.91E–.07**	**17–11**	**3.6b**	**23**	**1-63**
IDC	IV	28 09 50 44.1–1.3	37.15N	142.27E	0	3.6,3.4b		**¶17202293**
ISCJB	IV	28 09 50 48.1–1.5	37.42N–.05	141.90E–.08	23–8	3.5b,3.4b		
JMA	IV	28 09 50 50.1–.10	37.41N	141.79E	38–2	3.6,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=52.1km s-min=25.9km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.8km az=31.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 28 10 07 36.8–.10 35.80N 140.06E 65–1 1.4 ¶600601415
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 28 14 01 49.6–1.6 36.86N–.04 141.26E–.09 31–9 3.2b 25 0-61
IDC IV 28 14 01 45.0–1.6 36.72N 141.51E 0 3.5,3.5 **¶17202305**
ISCJB IV 28 14 01 48.4–.90 36.84N–.04 141.28E–.08 41–10 3.2b,3.5
JMA IV 28 14 01 50.3–.10 36.89N 141.11E 50–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=20.3km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.5km az=13.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 28 16 24 15.5–.20 35.85N 140.94E 14–2 2.2 ¶602945456
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 28 16 24 47.1–1.7 36.60N–.08 140.74E–.09 13–7 3.6b 19 0-60
IDC IV 28 16 24 38.2–1.6 35.96N 141.43E 0 3.9,3.7 **¶600601657**
ISCJB IV 28 16 24 46.9–1.2 36.63N–.05 140.81E–.10 22–5 3.6s,3.6b
JMA IV 28 16 24 48.8 36.70N 140.61E 7–1 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=43.5km s-min=19.5km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=6.1km az=31.6.
JMA Event type fe.
JMA IV 28 16 30 04.4 36.70N 140.63E 7 2.5 ¶600601661
ISC IV 28 16 40 45.7–1.1 36.64N–.05 141.82E–.08 19 3.3b 18 1-57
NIED IV 28 16 40 00 36.70N 142.10E 20 3.6W **¶17202314**
IDC IV 28 16 40 42.0–2.0 36.67N 142.25E 0 3.6,3.6
JMA IV 28 16 40 44.9–.40 36.71N 142.11E 25–5 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ14.00000°,λ108.00000°. NP2:ϕ_s10.00000°,δ77.00000°,λ86.00000°. $M_0$3.31000×10^{14}
IDC Error ellipse: s-maj=44.5km s-min=23.6km az=81.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 28 16 43 51.9–1.6 38.58N–.05 142.0E–.10 44–13 3.5b 27 0-73
NIED IV 28 16 43 00 38.60N 141.90E 38 3.7W **¶17202315**
ISCJB IV 28 16 43 50.8–.97 38.58N–.04 142.0E–.10 51–8 3.5b
JMA IV 28 16 43 52.3–.10 38.62N 141.91E 49–1 3.7
IDC IV 28 16 43 53.0–2.6 38.64N 141.86E 53–24 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s19.00000°,δ73.00000°,λ93.00000°. $M_0$3.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=6.0km az=12.7.
JMA Event type fe.
IDC Error ellipse: s-maj=36.1km s-min=16.9km az=91.0.
ISC IV 28 17 17 55.4–1.0 39.12N–.04 142.37E–.06 32–6 4.2b,3.3s 96 1-88
NIED IV 28 17 17 00 39.10N 142.40E 35 4.2W,3.3s **¶602558008**
MOS IV 28 17 17 53.8–1.2 39.17N 142.52E 33 4.4b,3.3s
ISCJB IV 28 17 17 54.4–.61 39.13N–.03 142.46E–.05 39–4 4.2b,3.2s
JMA IV 28 17 17 55.1–.10 39.14N 142.39E 35–1 4.3,3.2s
IDC IV 28 17 17 58.0–2.0 39.09N 142.30E 52–18 4.2,4.1L
NEIC IV 28 17 17 58.2–.89 39.09N 142.39E 57–8 4.6b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ9.00000°,λ-53.00000°. NP2:ϕ_s163.00000°,δ82.00000°,λ-96.00000°. $M_0$2.50000×10^{15}
MOS Error ellipse: s-maj=9.3km s-min=6.4km az=86.4.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=27.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=11.8km az=113.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.7km az=113.0. Recorded [3 JMA] in Iwate.
ISC IV 28 17 50 27.2–1.8 40.22N–.04 142.99E–.06 5–11 3.4b 26 1-60
NIED IV 28 17 50 00 40.20N 142.90E 38 3.8W **¶17202319**
IDC IV 28 17 50 26.6–1.4 40.03N 142.88E 0 3.7,3.5
ISCJB IV 28 17 50 29.9–1.2 40.18N–.04 142.96E–.07 20–8 3.4b,3.5
JMA IV 28 17 50 30.2–.20 40.18N 142.90E 16–2 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ30.00000°,λ-86.00000°. NP2:ϕ_s233.00000°,δ60.00000°,λ-92.00000°. $M_0$4.97000×10^{14}
IDC Error ellipse: s-maj=37.3km s-min=30.5km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.6km az=20.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 28 19 10 56.1 36.95N 140.77E 26–1 2.8 ¶600601806
ISC IV 28 22 04 32.2–.80 37.63N–.04 141.63E–.07 48–7 3.6b 39 1-77
NIED IV 28 22 04 00 37.60N 141.60E 56 3.9W **¶600601958**
ISCJB IV 28 22 04 30.1–.85 37.60N–.04 141.70E–.08 49–6 3.7b
IDC IV 28 22 04 32.4–.78 37.58N 141.62E 54–7 3.8,3.7
JMA IV 28 22 04 32.2–.10 37.65N 141.58E 45–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ39.00000°,λ55.00000°. NP2:ϕ_s232.00000°,δ58.00000°,λ115.00000°. $M_0$6.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.8km az=15.6.
IDC Error ellipse: s-maj=14.2km s-min=9.4km az=128.0.
JMA Event type fe.
JMA IV 28 22 31 18.1 36.92N 140.65E 9–1 2.5 ¶600601990
ISC IV 28 23 10 26.8–1.6 36.20N–.06 141.5E–.10 26 14 1-56
IDC IV 28 23 10 22.3–3.4 36.46N 141.69E 0 3.6,3.5b **¶17202331**
JMA IV 28 23 10 22.9–.20 36.05N 141.85E 54–5 3.0,3.5b
ISCJB IV 28 23 10 24.1–1.3 36.13N–.08 141.8E–.10 26 3.5s,3.5b
ISC Event type ke.
ISCJB Event type ke.
JMA IV 28 23 58 16.3 36.86N 140.66E 7–1 2.5 ¶600602067
ISC IV 29 00 08 57.4–1.3 36.88N–.07 141.85E–.09 19 3.5b 11 1-90
NIED IV 29 00 08 00 36.90N 141.90E 23 3.5W **¶17202334**
IDC IV 29 00 08 55.2–1.4 36.71N 142.24E 0 3.8,3.6L
ISCJB IV 29 00 08 57.8–1.2 36.90N–.09 141.9E–.10 19 3.5b,3.6L
JMA IV 29 00 08 58.8–.40 36.88N 141.89E 43 3.5,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ30.00000°,λ-114.00000°. NP2:ϕ_s217.00000°,δ62.00000°,λ-77.00000°. $M_0$1.71000×10^{14}
IDC Error ellipse: s-maj=35.0km s-min=26.5km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=11.6km az=138.1.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA IV 29 00 11 48.3–.10 38.46N 142.20E 25–1 3.7 ¶600602080
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 29 00 12 33.5 36.81N 140.56E 5–1 2.6 ¶600602086
JMA IV 29 00 58 39.7 36.32N 140.82E 54–1 2.5 ¶600602127
ISC IV 29 01 25 07.1–.72 38.22N–.04 142.12E–.10 39–5 3.6b 38 1-146
NIED IV 29 01 25 00 38.30N 142.10E 32 3.6W **¶17202338**
ISCJB IV 29 01 25 06.8–.86 38.24N–.04 142.09E–.08 52–8 3.5b
JMA IV 29 01 25 07.8–.10 38.28N 142.03E 49–1 3.8
IDC IV 29 01 25 10.8–2.8 38.26N 142.04E 73–25 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ29.00000°,λ161.00000°. NP2:ϕ_s205.00000°,δ81.00000°,λ63.00000°. $M_0$2.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.6km az=15.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.7km s-min=18.2km az=105.0.
ISC IV 29 05 30 01.7–2.0 36.94N–.05 141.41E–.09 11–10 3.6b 20 1-61
NIED IV 29 05 30 00 36.90N 141.40E 5 3.5W **¶17202349**
ISCJB IV 29 05 30 01.4–1.3 36.93N–.04 141.44E–.08 16–9 3.6b
JMA IV 29 05 30 03.3–.10 36.96N 141.32E 27–1 3.9
IDC IV 29 05 30 05.3–2.1 36.29N 141.11E 0 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ61.00000°,λ-176.00000°. NP2:ϕ_s245.00000°,δ87.00000°,λ-29.00000°. $M_0$1.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=7.2km az=13.5.
JMA Event type fe.
IDC Error ellipse: s-maj=43.3km s-min=22.9km az=54.0.
JMA IV 29 05 45 37.7–.10 37.01N 141.13E 50–1 3.7
NIED IV 29 05 45 00 37.00N 141.20E 68 3.5W **¶600602243**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ35.00000°,λ175.00000°. NP2:ϕ_s350.00000°,δ87.00000°,λ55.00000°. $M_0$2.33000×10^{14}
ISC IV 29 06 17 08.6–2.3 38.98N–.06 142.64E–.09 7–13 4.0b 23 1-73
NIED IV 29 06 17 00 39.00N 142.70E 8 3.4W **¶17202353**
IDC IV 29 06 17 06.2–2.2 39.11N 143.20E 0 4.0,4.0b
ISCJB IV 29 06 17 08.4–1.5 38.98N–.05 142.77E–.09 16–8 3.8b,4.0b
JMA IV 29 06 17 09.2–.10 39.00N 142.72E 21–2 3.6,4.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ38.00000°,λ-48.00000°. NP2:ϕ_s82.00000°,δ63.00000°,λ-118.00000°. $M_0$1.64000×10^{14}
IDC Error ellipse: s-maj=60.6km s-min=28.3km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.9km az=5.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 29 06 46 09.5–.10 37.18N 141.38E 48–1 3.5
NIED IV 29 06 46 00 37.20N 141.40E 53 3.6W **¶600602273**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ40.00000°,λ-151.00000°. NP2:ϕ_s199.00000°,δ72.00000°,λ-54.00000°. $M_0$2.87000×10^{14}
ISC IV 29 06 54 47.4–.39 39.35N–.03 142.13E–.04 46–2 4.9b,4.2s 527 0-151
NIED IV 29 06 54 00 39.30N 142.00E 53 4.9W,4.2s **¶16482377**
BJI IV 29 06 54 45.2 39.19N 142.16E 54 5.0b,4.9b
ISCJB IV 29 06 54 47.9–.26 39.36N–.02 141.90E–.03 57–2 4.9b,4.2s
JMA IV 29 06 54 48.1–.10 39.34N 142.06E 48–1 4.8,4.2s
NEIC IV 29 06 54 49.7–.50 39.33N 141.88E 60–4 4.9b,4.2s
IDC IV 29 06 54 50.2–.77 39.34N 141.96E 70–5 4.6,4.5
MOS IV 29 06 54 50.0–.96 39.56N 141.85E 72 5.1b,4.5
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ80.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ94.00000°. $M_0$2.16000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=135.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=136.0. Felt at Misawa. Recorded [4 JMA] in Iwate.
IDC Error ellipse: s-maj=13.4km s-min=11.0km az=111.0.
MOS Error ellipse: s-maj=6.5km s-min=4.4km az=99.2.
ISC IV 29 08 29 07.3–1.1 36.58N–.04 141.05E–.08 36–1 3.6b 32 0-91
NIED IV 29 08 29 00 36.60N 140.90E 41 3.7W **¶17202365**
ISCJB IV 29 08 29 06.5–.63 36.57N–.04 141.02E–.06 48–6 3.6b
IDC IV 29 08 29 08.1–1.9 36.55N 141.01E 43–21 3.8,3.7
JMA IV 29 08 29 08.0–.10 36.61N 140.90E 50–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ24.00000°,λ-60.00000°. NP2:ϕ_s246.00000°,δ69.00000°,λ-103.00000°. $M_0$4.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=22.4.
IDC Error ellipse: s-maj=16.8km s-min=10.9km az=71.0.
JMA Event type fe.
JMA IV 29 08 35 18.9 37.00N 141.19E 22 2.6 ¶16482383
JMA IV 29 08 40 30.3–.10 37.94N 141.86E 51–1 3.6
NIED IV 29 08 40 00 37.90N 141.90E 41 3.5W **¶600602354**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ33.00000°,λ152.00000°. NP2:ϕ_s197.00000°,δ75.00000°,λ60.00000°. $M_0$2.00000×10^{14}
JMA IV 29 10 22 54.5–.10 38.46N 142.28E 21–2 2.6 ¶600602410
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 29 12 24 55.5–1.1 36.68N–.04 140.63E–.08 10–7 3.6b 18 0-87
ISCJB IV 29 12 24 54.3–.96 36.63N–.04 140.74E–.07 12–4 4.0b,3.7s **¶602558026**
IDC IV 29 12 24 54.0–1.7 36.69N 140.61E 0 3.7s,3.7
JMA IV 29 12 24 55.8 36.69N 140.62E 7–1 3.0,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=27.9.
IDC Error ellipse: s-maj=33.1km s-min=18.0km az=15.0.
JMA Event type fe.
ISC IV 29 12 53 54.5–.65 34.74N–.05 140.10E–.05 60–5 4.0b 38 0-75
NIED IV 29 12 53 00 34.80N 140.10E 59 4.0W **¶17202383**
ISCJB IV 29 12 53 52.9–.42 34.71N–.04 140.11E–.05 63–3 4.0b
JMA IV 29 12 53 53.3–.20 34.75N 140.12E 61–2 3.5
IDC IV 29 12 53 54.7–.80 34.70N 140.06E 62–6 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ39.00000°,λ153.00000°. NP2:ϕ_s359.00000°,δ73.00000°,λ55.00000°. $M_0$1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.2km s-min=5.3km az=78.0.
ISC IV 29 13 02 28.0–2.1 39.06N–.05 142.40E–.09 3–13 18 1-59
NIED IV 29 13 02 00 39.00N 142.50E 53 3.9W **¶17202384**
ISCJB IV 29 13 02 28.4–1.6 39.03N–.05 142.5E–.10 20–12 3.5b
JMA IV 29 13 02 29.4–.10 39.07N 142.44E 32–2 3.9
IDC IV 29 13 02 34.6–6.8 39.10N 141.97E 86–86 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ35.00000°,λ-111.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ-76.00000°. $M_0$9.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=6.7km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=193.8km s-min=21.7km az=115.0.
ISC IV 29 14 31 48.6–1.7 37.20N–.04 141.74E–.07 14–10 3.4b 23 1-61
NIED IV 29 14 31 00 37.20N 141.50E 47 3.6W **¶17202388**
IDC IV 29 14 31 46.6–1.3 37.11N 141.83E 0 3.6,3.4
JMA IV 29 14 31 52.4–.10 37.22N 141.55E 46–2 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ41.00000°,λ77.00000°. NP2:ϕ_s62.00000°,δ51.00000°,λ101.00000°. $M_0$2.92000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=22.8km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 29 14 33 32.8–1.7 36.43N–.05 140.89E–.07 24–12 3.6b 22 0-69
NIED IV 29 14 33 00 36.30N 140.90E 35 3.8W **¶600602690**
IDC IV 29 14 33 29.2–.90 36.38N 140.85E 0 3.8,3.7
ISCJB IV 29 14 33 32.9–.91 36.38N–.05 140.90E–.08 41–7 4.0s,3.7b
JMA IV 29 14 33 33.1–.10 36.34N 140.90E 40–1 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ16.00000°,λ100.00000°. NP2:ϕ_s31.00000°,δ75.00000°,λ87.00000°. $M_0$6.34000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=16.1km az=1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.9km az=35.0.
JMA Event type fe.
ISC IV 29 17 04 12.7–.78 35.35N–.03 140.92E–.04 17–4 4.8b,4.0s 307 0-148
NIED IV 29 17 04 00 35.50N 141.00E 17 4.5W,4.0s **¶602558027**
IDC IV 29 17 04 10.3–.47 35.33N 140.90E 0 4.5,4.5
BJI IV 29 17 04 10.7 35.10N 140.96E 22 4.8b,4.5b
ISCJB IV 29 17 04 10.8–.64 35.30N–.02 140.93E–.03 15–4 4.7b,4.0s
JMA IV 29 17 04 12.6–.10 35.46N 140.92E 24–1 4.7,4.0s
MOS IV 29 17 04 13.4–1.0 35.32N 140.92E 33 4.8b,4.0s
NEIC IV 29 17 04 13.3–1.4 35.27N 140.88E 21–9 4.9b,4.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ32.00000°,λ148.00000°. NP2:ϕ_s289.00000°,δ74.00000°,λ62.00000°. $M_0$7.11000×10^{15}
IDC Error ellipse: s-maj=14.9km s-min=11.0km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.7km az=40.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.5km az=108.4.

NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=126.0. Felt at Narita. Recorded [3 JMA] in Chiba and Ibaraki.
ISC IV 29 18 22 55.2–.53 39.50N–.04 142.69E–.05 29 4.2b,3.5s 127 1-81
NIED IV 29 18 22 00 39.40N 142.70E 32 4.2W,3.5s **¶16485466**
ISCJB IV 29 18 22 53.1–.34 39.50N–.03 142.80E–.04 29 4.2b,3.5s
JMA IV 29 18 22 54.8–.10 39.44N 142.69E 33–1 3.9,3.5s
MOS IV 29 18 22 54.9–1.1 39.56N 142.74E 39 4.4b,3.5s
BJI IV 29 18 22 54.3 39.50N 142.59E 33 4.7b,4.5b
IDC IV 29 18 22 58.1–2.2 39.48N 142.60E 52–20 4.1,3.9
NEIC IV 29 18 22 59.2–.75 39.55N 142.55E 62–6 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ23.00000°,λ71.00000°. NP2:ϕ_s28.00000°,δ69.00000°,λ98.00000°. M_o2.37000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.3km az=39.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=6.0km az=90.8.
IDC Error ellipse: s-maj=17.3km s-min=12.4km az=101.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.1km az=113.0.
ISC IV 29 18 44 32.9–1.3 38.42N–.06 142.22E–.10 41 3.1b 18 1-62
IDC IV 29 18 44 26.6–1.9 38.38N 142.66E 0 3.5,3.3 **¶17202405**
ISCJB IV 29 18 44 31.1–.93 38.39N–.05 142.29E–.09 41 3.3b,3.3
JMA IV 29 18 44 32.7–.10 38.39N 142.15E 38–1 3.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=51.2km s-min=27.6km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.3km az=177.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 29 20 21 13.0–.92 36.78N–.03 140.52E–.04 13–7 3.6b 24 0-57
NIED IV 29 20 21 00 36.70N 140.60E 8 3.5W **¶17202412**
ISCJB IV 29 20 21 12.5–.58 36.75N–.03 140.63E–.05 18–5 3.5b
JMA IV 29 20 21 13.3 36.77N 140.53E 10–1 3.7
IDC IV 29 20 21 15.8–3.3 36.72N 140.66E 39–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ42.00000°,λ-36.00000°. NP2:ϕ_s279.00000°,δ67.00000°,λ-126.00000°. M_o1.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=19.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s297.00000°,δ53.00000°,λ-118.00000°. NP2:ϕ_s158.00000°,δ45.00000°,λ-59.00000°. Principal axes: T Plg4.0000°,Azm46.0000°; N Plg22.0000°,Azm314.0000°; P Plg68.0000° ,Azm146.0000°
IDC Error ellipse: s-maj=33.7km s-min=19.6km az=80.0.
ISC IV 29 21 11 36.0–1.2 36.36N–.03 141.06E–.06 25–9 3.9b,3.5s 34 0-91
NIED IV 29 21 11 00 36.30N 141.10E 32 4.1W,3.5s **¶17202417**
ISCJB IV 29 21 11 35.5–.72 36.34N–.03 141.18E–.07 36–7 3.8b,3.6s
JMA IV 29 21 11 36.4–.10 36.33N 141.08E 46–1 4.0,3.6s
IDC IV 29 21 11 39.7–2.0 36.24N 141.05E 60–20 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ9.00000°,λ-102.00000°. NP2:ϕ_s206.00000°,δ81.00000°,λ-88.00000°. M_o1.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.8km az=4.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=9.6km az=68.0.
ISC IV 29 22 19 31.1–.33 38.86N–.03 142.07E–.03 44–2 5.3b,4.8s 1032 0-155
NIED IV 29 22 19 00 38.80N 142.10E 47 5.1W,4.8s **¶16485197**
BJI IV 29 22 19 27.1 38.72N 142.32E 44 5.3b,5.1b
JMA IV 29 22 19 30.9–.10 38.84N 142.11E 44–2 5.2,5.1b
MOS IV 29 22 19 30.1–1.0 38.93N 142.00E 46 5.6b,4.8s
ISCJB IV 29 22 19 31.4–.29 38.84N–.02 141.95E–.02 55–2 5.2b,4.7s
IDC IV 29 22 19 32.5–1.5 38.84N 142.01E 55–13 5.0,4.9
GCMT IV 29 22 19 33.4–.20 38.92N 142.19E 50–0 5.2W,4.9
NEIC IV 29 22 19 33.4–.41 38.86N 141.92E 59–3 5.2b,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ21.00000°,λ73.00000°. NP2:ϕ_s22.00000°,δ69.00000°,λ96.00000°. M_o5.91000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ62.00000°,λ96.00000°. NP2: ϕ_s183.00000°,δ28.00000°,λ79.00000°. Principal axes: T Plg72.0000°,Azm298.0000° ; N Plg5.0000°,Azm193.0000°; P Plg17.0000°,Azm101.0000°
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=97.6.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.4.
IDC Error ellipse: s-maj=11.5km s-min=8.3km az=115.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c114; s101,c191; Duration: 1^{s}0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.02 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.63±.01; $M_{r\theta}$0.20±.01; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$0.40±.01; Best double couple: NP1:ϕ_s19.00000°,δ62.00000° ,λ99.00000°. NP2:ϕ_s181.00000°,δ29.00000°,λ74.00000°. Principal axes: T 0.8110,Plg72.0000°,Azm308.0000°; N -0.0230,Plg8.0000°,Azm195.0000° ; P -0.7880,Plg17.0000°,Azm103.0000° M_o0.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.
JMA IV 29 23 28 40.2–.10 36.63N 141.82E 39–3 3.5
¶600603020
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 30 01 05 10.5–.10 35.74N 140.94E 11–1 3.5
NIED IV 30 01 05 00 35.80N 141.00E 11 3.6W **¶600603071**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ37.00000°,λ-115.00000°. NP2:ϕ_s194.00000°,δ57.00000°,λ-72.00000°. M_o2.99000×10^{14}
JMA IV 30 01 34 09.6–.10 38.29N 141.78E 57–1 3.7
NIED IV 30 01 34 00 38.30N 141.80E 47 4.2W **¶600603086**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ22.00000°,λ95.00000°. NP2:ϕ_s171.00000°,δ68.00000°,λ88.00000°. M_o2.53000×10^{15}
ISC IV 30 01 54 26.8–.59 39.66N–.03 142.19E–.05 51–4 4.4b,3.5s 191 0-145
NIED IV 30 01 54 00 39.70N 142.20E 50 4.3W,3.5s **¶16485202**
ISCJB IV 30 01 54 25.7–.39 39.68N–.03 142.16E–.05 56–2 4.4b,3.5s
MOS IV 30 01 54 26.5–.85 39.78N 142.10E 60 4.7b,3.5s
JMA IV 30 01 54 26.7–.10 39.67N 142.14E 47–1 4.2,3.5s
IDC IV 30 01 54 28.9–1.7 39.65N 142.06E 70–15 4.2,4.0
NEIC IV 30 01 54 28.7–.54 39.65N 142.13E 69–4 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ15.00000°,λ54.00000°. NP2:ϕ_s16.00000°,δ78.00000°,λ99.00000°. M_o3.68000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=22.3.
MOS Error ellipse: s-maj=8.5km s-min=5.8km az=107.7.
JMA Event type fe.
IDC Error ellipse: s-maj=14.3km s-min=11.1km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=113.0. Recorded [2 JMA] in Iwate.
ISC IV 30 05 06 33.8–.41 36.83N–.03 141.18E–.03 28–2 5.2b,4.8s 1090 0-152
NIED IV 30 05 06 00 36.80N 141.30E 8 5.0W,4.8s **¶602558044**
IDC IV 30 05 06 29.2–.42 36.75N 141.19E 0 5.1,5.0
JMA IV 30 05 06 31.1–.10 36.76N 141.28E 37–2 5.3,5.0
ISCJB IV 30 05 06 33.5–.44 36.81N–.02 141.08E–.02 31–2 5.1b,4.8s
BJI IV 30 05 06 33.8 36.93N 141.12E 40 5.0s,4.8b
MOS IV 30 05 06 34.9–.81 37.12N 141.03E 33 5.4b,4.8s
GCMT IV 30 05 06 35.9–.20 36.86N 141.27E 20–0 5.1W,4.8s
NEIC IV 30 05 06 35.9–.44 36.79N 141.07E 39–4 5.2b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ66.00000°,λ-156.00000°. NP2:ϕ_s52.00000°,δ68.00000°,λ-26.00000°. M_o4.01000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=9.5km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=160.4.
MOS Error ellipse: s-maj=6.1km s-min=4.0km az=102.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c58; s94,c143; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.43±.23 $M_{\theta\theta}$-2.64±.14; $M_{\phi\phi}$6.07±.17; $M_{r\theta}$-1.31±.30; $M_{\theta\phi}$2.30±.11; $M_{\phi r}$0.15±.25; Best double couple: NP1:ϕ_s48.00000°,δ59.00000° ,λ-38.00000°. NP2:ϕ_s160.00000°,δ58.00000°,λ-143.00000°. Principal axes: T 6.6430,Plg1.0000°,Azm104.0000°; N -2.0100,Plg43.0000°,Azm195.0000° ; P -4.6330,Plg47.0000°,Azm13.0000° M_o5.63800×10^{16}

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=142.0. Recorded [4 JMA] in Fukushima and Ibaraki.
JMA IV 30 05 23 55.6–.10 36.80N 141.22E 37–1 2.7
¶600603164
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 30 05 29 49.1–1.5 36.75N–.04 141.28E–.06 10–9 3.7b 35 1-69
NIED IV 30 05 29 00 36.80N 141.30E 5 3.8W **¶16485206**
ISCJB IV 30 05 29 47.5–1.1 36.70N–.03 141.37E–.06 15–7 3.7b,2.9s
IDC IV 30 05 29 47.6–.83 36.63N 141.25E 0 3.9L,3.8
JMA IV 30 05 29 49.6–.10 36.75N 141.25E 35–1 4.1,3.8
NEIC IV 30 05 29 52.9–.93 36.63N 141.18E 39–11 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ84.00000°,λ3.00000°. NP2: ϕ_s321.00000°,δ87.00000°,λ174.00000°. M_o6.55000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=19.9.
IDC Error ellipse: s-maj=21.8km s-min=15.4km az=98.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=14.5km s-min=9.6km az=101.0. Recorded [3 JMA] in Ibaraki.
ISC IV 30 05 46 57.0–1.3 37.34N–.03 141.26E–.04 9–8 4.7b,3.9s 269 0-152
NIED IV 30 05 46 00 37.30N 141.30E 23 4.4W,3.9s **¶16485469**
IDC IV 30 05 46 55.1–.48 37.33N 141.21E 0 4.8L,4.6
BJI IV 30 05 46 58.0 37.40N 141.20E 15 4.8b,4.6b
JMA IV 30 05 46 59.3–.10 37.34N 141.30E 33–1 4.5,4.6b
ISCJB IV 30 05 46 59.4–.16 37.35N–.02 141.26E–.03 33 4.7b,3.9s
NEIC IV 30 05 47 01.9–.51 37.39N 141.20E 40–4 4.7b,3.9s
MOS IV 30 05 47 01.0–.93 37.73N 141.14E 33 4.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ18.00000°,λ-51.00000°. NP2:ϕ_s229.00000°,δ76.00000°,λ-102.00000°. M_o3.93000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=11.2km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=143.6.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=134.0. Recorded [4 JMA] in Fukushima.
MOS Error ellipse: s-maj=7.9km s-min=5.6km az=88.0.
ISC IV 30 06 04 23.2–.53 36.80N–.03 141.11E–.04 25–3 5.0s,4.8b 326 0-150
IDC IV 30 06 04 19.1–.44 36.77N 141.17E 0 4.9s,4.9 **¶16485209**
JMA IV 30 06 04 21.6–.10 36.77N 141.25E 37–1 4.6,4.9
BJI IV 30 06 04 21.0 36.80N 141.00E 15 5.0b,4.8s
MOS IV 30 06 04 22.2–1.1 36.79N 141.12E 29 4.9b,4.8s
ISCJB IV 30 06 04 23.6–.44 36.78N–.02 141.07E–.03 37–3 4.9s,4.7b
NEIC IV 30 06 04 26.0–.50 36.75N 141.06E 44–4 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=10.7km az=107.0.
JMA Event type fe.
MOS Error ellipse: s-maj=7.6km s-min=5.5km az=105.2.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=31.4.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=131.0. Recorded [3 JMA] in Ibaraki.
ISC IV 30 06 33 24.0–2.0 37.28N–.05 141.62E–.08 25–14 3.4b 22 1-64
ISCJB IV 30 06 33 22.8–1.5 37.25N–.04 141.67E–.09 27–8 3.4b **¶17202443**
JMA IV 30 06 33 26.2–.10 37.29N 141.42E 46–1 3.4
IDC IV 30 06 33 28.1–4.9 37.22N 141.43E 63–47 3.2,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=6.7km az=10.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=44.7km s-min=27.6km az=107.0.
JMA IV 30 07 58 51.1–.10 37.40N 141.57E 14–2 2.7
¶602945460
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 30 08 00 27.8–.10 39.29N 142.87E 23–2 3.5
NIED IV 30 08 00 00 39.30N 142.90E 14 3.8W **¶600603214**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ14.00000°,λ-85.00000°. NP2:ϕ_s294.00000°,δ76.00000°,λ-91.00000°. M_o5.78000×10^{14}
ISC IV 30 08 18 21.2–1.5 36.31N–.04 141.05E–.05 14–9 4.0b 39 0-147
NIED IV 30 08 18 00 36.30N 141.10E 35 4.1W **¶16505587**
JMA IV 30 08 18 24.1–.10 36.31N 141.07E 48–1 3.9
IDC IV 30 08 18 26.5–2.1 36.23N 141.00E 56–21 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ17.00000°,λ116.00000°. NP2:ϕ_s26.00000°,δ75.00000°,λ82.00000°. M_o1.51000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=11.7km az=86.0.
JMA IV 30 08 21 21.8–.10 36.80N 141.22E 37–1 2.9
¶600603225
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 30 08 47 46.7–.10 38.31N 142.10E 36–1 3.6
¶600603232
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 30 10 21 43.5–1.6 36.79N–.04 141.28E–.06 13–9 3.7b 43 0-147
IDC IV 30 10 21 41.6–.68 36.77N 141.30E 0 3.9s,3.9 **¶16587548**
ISCJB IV 30 10 21 42.9–.95 36.78N–.03 141.36E–.05 21–6 3.9s,3.7b
JMA IV 30 10 21 44.0–.10 36.77N 141.25E 37–1 3.6,3.7b
NEIC IV 30 10 21 44.7–3.4 36.82N 141.25E 20–21 4.8b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=15.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.6km az=28.8.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.8km az=119.0.
JMA IV 30 10 28 04.9 36.93N 140.59E 18–1 2.7
¶600603272
ISC IV 30 10 46 19.1–1.7 38.20N–.04 142.16E–.06 9–11 3.6b 26 1-146
NIED IV 30 10 46 00 38.30N 142.20E 47 3.9W **¶17202450**
IDC IV 30 10 46 19.3–.77 38.30N 142.38E 0 3.8,3.6
JMA IV 30 10 46 23.5–.20 38.31N 142.12E 37–2 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ56.00000°,λ143.00000°. NP2:ϕ_s155.00000°,δ60.00000°,λ40.00000°. M_o7.39000×10^{14}
IDC Error ellipse: s-maj=23.4km s-min=16.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 30 11 13 51.0–.41 35.18N–.03 141.69E–.03 26–2 4.9s,4.8b 395 1-147
NIED IV 30 11 13 00 35.20N 141.80E 14 5.0W,4.8b **¶16485269**
BJI IV 30 11 13 46.3 35.29N 141.59E 6 5.0b,5.0s
IDC IV 30 11 13 47.6–.49 35.12N 141.57E 0 4.5,4.5s
JMA IV 30 11 13 49.6–.20 35.18N 141.81E 53–4 4.9,4.5s
ISCJB IV 30 11 13 50.0–.70 35.12N–.03 141.64E–.03 28–4 4.8s,4.7b
MOS IV 30 11 13 50.9–1.3 35.20N 141.56E 33 5.1b,4.8s
GCMT IV 30 11 13 51.1–.40 35.09N 141.79E 24–1 5.0W,4.8s
NEIC IV 30 11 13 51.1–1.7 35.15N 141.59E 23–12 4.9b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ37.00000°,λ101.00000°. NP2:ϕ_s10.00000°,δ54.00000°,λ82.00000°. M_o4.01000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=10.9km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.8km az=143.6.
MOS Error ellipse: s-maj=8.9km s-min=4.6km az=117.8.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c22; s72,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.79±.32 $M_{\theta\theta}$-0.68±.18; $M_{\phi\phi}$-3.11±.19; $M_{r\theta}$0.85±.26; $M_{\theta\phi}$-1.27±.10; $M_{\phi r}$2.19±.22; Best double couple: NP1:ϕ_s22.00000°,δ61.00000° ,λ89.00000°. NP2:ϕ_s204.00000°,δ29.00000°,λ92.00000°. Principal axes: T 4.4700,Plg74.0000°,Azm290.0000°; N -0.1380,Plg1.0000°,Azm23.0000° ; P -4.3320,Plg16.0000°,Azm113.0000° M_o4.40100×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=117.0.
ISC IV 30 12 43 31.5–.97 36.98N–.04 140.64E–.05 15–9 16 0-61
ISCJB IV 30 12 43 31.4–.60 36.98N–.03 140.63E–.05 9–6 3.5b **¶17202458**
JMA IV 30 12 43 31.6 36.99N 140.61E 7–2 3.2
IDC IV 30 12 43 32.5–2.7 36.73N 140.59E 0 3.6,3.3
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.2km az=17.1.
IDC Error ellipse: s-maj=46.5km s-min=27.8km az=33.0.
ISC IV 30 12 57 47.4–1.3 36.97N–.04 140.56E–.03 1–9 3.6b 29 0-147
NIED IV 30 12 57 00 37.00N 140.60E 8 3.6W **¶17202459**
IDC IV 30 12 57 47.0–.86 36.95N 140.65E 0 3.8,3.7
ISCJB IV 30 12 57 48.0–.51 37.00N–.03 140.69E–.04 17–4 3.5b,2.8s
JMA IV 30 12 57 48.6 37.03N 140.59E 9–1 3.6,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ46.00000°,λ-130.00000°. NP2:ϕ_s171.00000°,δ57.00000°,λ-56.00000°. $M_0$2.84000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=18.0km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.3km az=25.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s154.00000°,δ50.00000°,λ-58.00000°. NP2:ϕ_s290.00000°,δ50.00000°,λ-122.00000°. Principal axes: T Plg0.0000°,Azm222.0000°; N Plg24.0000°,Azm312.0000°; P Plg66.0000°,Azm132.0000°
ISC IV 30 13 22 05.5–1.3 36.13N–.04 141.11E–.07 31 15 0-60
IDC IV 30 13 21 59.6–4.5 36.69N 141.51E 0 3.7,3.5 **¶17202460**
NIED IV 30 13 22 00 36.20N 141.00E 20 3.5W,3.5
ISCJB IV 30 13 22 07.0–.94 36.25N–.05 141.09E–.09 31 3.5b,3.5
JMA IV 30 13 22 07.9–.10 36.22N 140.99E 39–1 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=81.6km s-min=32.4km az=23.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ51.00000°,λ-42.00000°. NP2:ϕ_s222.00000°,δ59.00000°,λ-133.00000°. $M_0$2.24000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.4km az=165.4.
JMA Event type fe.
JMA IV 30 14 00 29.3–.10 38.82N 142.34E 35–3 3.3 ¶600603373
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 30 16 17 13.5–2.0 37.35N–.05 141.97E–.07 9–11 21 1-57
NIED IV 30 16 17 00 37.40N 141.80E 32 3.3W **¶17202466**
IDC IV 30 16 17 10.7–2.0 37.45N 142.35E 0 3.6,3.5
JMA IV 30 16 17 18.1–.20 37.39N 141.76E 42–3 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s290.00000°,δ51.00000°,λ-30.00000°. NP2:ϕ_s40.00000°,δ67.00000°,λ-137.00000°. $M_0$9.70000×10^{13}
IDC Error ellipse: s-maj=46.7km s-min=23.4km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 30 17 02 50.3–1.8 36.97N–.05 141.27E–.07 8–10 3.2b 22 0-61
IDC IV 30 17 02 48.8–1.2 36.88N 141.31E 0 3.5,3.3 **¶17202468**
ISCJB IV 30 17 02 50.0–1.2 36.93N–.05 141.35E–.07 20–7 3.2b,3.3
JMA IV 30 17 02 52.0–.10 36.95N 141.18E 32–1 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=27.0km s-min=24.0km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.4km az=35.4.
ISC IV 30 17 11 59.2–.57 36.34N–.04 140.92E–.03 24–3 4.8b,4.2s 393 0-149
NIED IV 30 17 11 00 36.40N 141.00E 5 4.7W,4.2s **¶16485483**
IDC IV 30 17 11 55.5–.48 36.35N 140.88E 0 4.4,4.4
ISCJB IV 30 17 11 57.5–.59 36.37N–.03 140.88E–.03 20–3 4.8b,4.2s
JMA IV 30 17 11 57.0–.10 36.39N 141.01E 21–1 4.9,4.2s
NEIC IV 30 17 11 59.8–1.4 36.32N 140.80E 27–9 4.9b,4.2s
MOS IV 30 17 12 01.4–1.4 36.69N 140.75E 36 5.1b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ35.00000°,λ-156.00000°. NP2:ϕ_s203.00000°,δ76.00000°,λ-58.00000°. $M_0$1.36000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.6km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=154.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=141.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=109.0.
ISC IV 30 18 07 07.8–1.7 38.80N–.07 142.1E–.10 44–13 3.6b 21 0-67
ISCJB IV 30 18 07 06.7–1.2 38.85N–.05 142.1E–.10 49–8 3.5b **¶17202470**
JMA IV 30 18 07 07.8–.10 38.84N 142.06E 46–1 3.7
IDC IV 30 18 07 09.6–2.8 38.90N 142.28E 68–22 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.4km s-min=7.4km az=19.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.9km s-min=17.0km az=104.0.
ISC IV 30 22 04 43.6–1.4 35.63N–.06 141.18E–.09 29–8 3.7b,3.0s 25 0-75
ISCJB IV 30 22 04 42.8–1.0 35.65N–.05 141.2E–.10 36–8 3.7b,3.4s **¶17202479**
JMA IV 30 22 04 45.0–.10 35.73N 140.96E 35–1 3.3,3.4s
IDC IV 30 22 04 46.1–2.2 35.61N 141.04E 47–20 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=7.7km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.9km s-min=8.6km az=71.0.
ISC IV 30 22 15 41.4–.65 35.42N–.04 141.06E–.06 33 3.5b 26 0-91
IDC IV 30 22 15 37.1–.76 35.36N 141.17E 0 3.7,3.6 **¶17202480**
ISCJB IV 30 22 15 40.4–.51 35.42N–.04 141.12E–.07 33 3.5b,3.6
JMA IV 30 22 15 41.5–.10 35.50N 141.10E 34–1 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.8km s-min=15.0km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.9km az=172.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 30 22 47 58.8–1.1 36.93N–.03 140.73E–.07 12–8 3.6b 19 0-57
ISCJB IV 30 22 47 58.1–.90 36.92N–.04 140.85E–.08 17–6 3.5b,3.4s **¶17202483**
JMA IV 30 22 47 59.2 36.94N 140.70E 6–1 3.3,3.4s
IDC IV 30 22 48 03.9–6.8 36.88N 140.71E 50–57 3.4,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.2km az=18.5.
JMA Event type fe.
IDC Error ellipse: s-maj=52.7km s-min=26.0km az=72.0.
ISC IV 30 23 03 58.8–1.4 39.49N–.04 142.40E–.08 19–3 3.3b 25 0-60
NIED IV 30 23 03 00 39.50N 142.40E 20 3.6W **¶17202484**
ISCJB IV 30 23 03 57.4–1.5 39.48N–.03 142.48E–.10 16–10 3.2b
JMA IV 30 23 03 59.4–.10 39.51N 142.37E 30–1 3.8
IDC IV 30 23 04 01.5–2.9 39.45N 142.66E 53–23 3.3,3.2L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ12.00000°,λ14.00000°. NP2:ϕ_s69.00000°,δ87.00000°,λ101.00000°. $M_0$2.59000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.3km az=12.1.
JMA Event type fe.
IDC Error ellipse: s-maj=35.1km s-min=11.8km az=110.0.
ISC IV 30 23 08 13.3–1.5 36.40N–.04 140.98E–.05 13–9 4.0b,3.1s 59 0-147
NIED IV 30 23 08 00 36.40N 141.00E 8 4.0W,3.1s **¶16505589**
NEIC IV 30 23 08 08.5–.84 34.33N 140.42E 35–8 4.2b,3.1s
ISCJB IV 30 23 08 13.8–.84 36.40N–.04 140.95E–.06 29–5 4.1b,3.3s
JMA IV 30 23 08 13.3–.10 36.40N 141.01E 20–1 4.2,3.3s
IDC IV 30 23 08 18.8–1.9 36.33N 140.83E 54–17 3.9,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ58.00000°,λ175.00000°. NP2:ϕ_s39.00000°,δ86.00000°,λ32.00000°. $M_0$9.77000×10^{14}
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=7.3km az=65.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.7km az=26.5.
JMA Event type fe.
IDC Error ellipse: s-maj=14.8km s-min=9.0km az=66.0.
JMA IV 30 23 10 20.6–.10 37.63N 141.74E 26–2 3.7 ¶600603651
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 30 23 24 21.6–1.9 36.36N–.05 140.99E–.06 4–11 3.9b 42 0-147
NIED IV 30 23 24 00 36.40N 141.00E 5 4.0W **¶600603655**
ISCJB IV 30 23 24 20.2–1.1 36.32N–.04 141.11E–.05 6–6 3.8b,3.0s
JMA IV 30 23 24 23.0 36.40N 141.00E 20–1 4.3,3.0s
IDC IV 30 23 24 27.4–1.8 36.38N 140.74E 41–17 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ46.00000°,λ-173.00000°. NP2:ϕ_s215.00000°,δ85.00000°,λ-44.00000°. $M_0$1.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.9km az=15.6.

JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=10.8km az=85.0.
ISC V 01 01 27 44.6–.66 35.90N–.03 140.96E–.04 32–4 4.6b,3.8s 320 0-152
NIED V 01 01 27 00 36.00N 140.90E 44 4.7W,3.8s **¶16485947**
MOS V 01 01 27 43.5–1.1 35.89N 140.92E 34 4.9b,3.8s
NEIC V 01 01 27 44.3–1.4 35.80N 140.77E 28–9 4.7b,3.8s
ISCJB V 01 01 27 45.2–.38 35.80N–.03 140.83E–.03 49–3 4.6b,3.8s
JMA V 01 01 27 45.8–.10 35.90N 140.85E 39–1 4.5,3.8s
IDC V 01 01 27 47.9–1.4 35.80N 140.78E 57–13 4.4,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ16.00000°,λ119.00000°. NP2:ϕ_s15.00000°,δ76.00000°,λ82.00000°. $M_0$1.08000×10^{16}
MOS Error ellipse: s-maj=8.3km s-min=4.5km az=109.4.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=115.0. Felt [II] at Yokosuka. Recorded [3 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.4km az=179.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s29.00000°,δ67.00000°,λ80.00000°. NP2: ϕ_s232.00000°,δ25.00000°,λ111.00000°. Principal axes: T Plg67.0000°,Azm281.0000°; N Plg9.0000°,Azm33.0000°; P Plg21.0000°,Azm126.0000°
IDC Error ellipse: s-maj=12.5km s-min=7.3km az=72.0.
ISC V 01 01 56 01.6–1.4 37.06N–.04 141.53E–.06 26–10 4.0b 56 1-152
NIED V 01 01 56 00 37.20N 141.50E 50 4.0W **¶16486821**
ISCJB V 01 01 56 01.8–.66 37.09N–.03 141.51E–.06 41–6 4.0b
NEIC V 01 01 56 03.5–.69 37.10N 141.52E 37–7 4.3b
IDC V 01 01 56 03.3–3.0 37.15N 141.42E 33–23 3.9,3.9
JMA V 01 01 56 03.5–.10 37.15N 141.37E 49–1 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ62.00000°,λ28.00000°. NP2:ϕ_s91.00000°,δ65.00000°,λ149.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.0km az=11.3.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=6.6km az=125.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=17.9km s-min=15.5km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 02 48 45.4–.43 37.40N–.03 141.30E–.04 24–2 4.5b,4.0s 298 0-152
NIED V 01 02 48 00 37.40N 141.20E 29 4.4W,4.0s **¶16485950**
ISCJB V 01 02 48 44.8–.53 37.38N–.02 141.25E–.03 30–3 4.5b,4.2s
IDC V 01 02 48 45.5–.43 37.37N 141.11E 26–2 4.6L,4.4
JMA V 01 02 48 45.7–.10 37.42N 141.21E 29–1 4.6,4.4
MOS V 01 02 48 45.2–1.3 37.44N 141.32E 33 4.7b,4.4
NEIC V 01 02 48 47.4–.52 37.45N 141.12E 37–4 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ54.00000°,λ-146.00000°. NP2:ϕ_s166.00000°,δ63.00000°,λ-41.00000°. $M_0$4.83000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=21.0.
IDC Error ellipse: s-maj=14.0km s-min=10.0km az=92.0.
JMA Event type fe.
MOS Error ellipse: s-maj=7.8km s-min=4.8km az=96.4.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=127.0. Recorded [4 JMA] in Fukushima.
ISC V 01 03 26 41.2–1.1 37.08N–.04 141.28E–.08 50–8 3.9b,3.4s 55 0-147
NIED V 01 03 26 00 37.10N 141.20E 53 4.1W,3.4s **¶16577933**
ISCJB V 01 03 26 39.9–.62 37.07N–.03 141.30E–.07 53–4 3.9b,3.4s
JMA V 01 03 26 41.5–.10 37.11N 141.15E 56–1 4.2,3.4s
IDC V 01 03 26 42.1–1.9 37.07N 141.10E 59–18 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ31.00000°,λ117.00000°. NP2:ϕ_s220.00000°,δ63.00000°,λ75.00000°. $M_0$1.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.0km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=10.8km az=89.0.
JMA V 01 04 22 43.8–.10 37.42N 141.76E 39–3 2.9 ¶17202497
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 04 40 19.5–1.0 37.00N–.03 140.66E–.04 9–8 20 0-61
ISCJB V 01 04 40 18.7–.63 36.99N–.03 140.78E–.06 16–6 3.5b **¶17202499**
IDC V 01 04 40 18.8–2.6 36.84N 140.73E 0 3.6,3.5
JMA V 01 04 40 19.4 37.01N 140.65E 8–1 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.2km az=4.4.
IDC Error ellipse: s-maj=40.8km s-min=28.0km az=40.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s222.00000°,δ79.00000°,λ-109.00000°. NP2:ϕ_s103.00000°,δ21.00000°,λ-30.00000°. Principal axes: T Plg32.0000°,Azm327.0000°; N Plg18.0000°,Azm225.0000°; P Plg52.0000°,Azm110.0000°
ISC V 01 05 06 05.5–1.7 37.50N–.04 141.43E–.06 4–10 3.7b 45 0-90
NIED V 01 05 06 00 37.50N 141.30E 17 3.9W **¶16486823**
ISCJB V 01 05 06 04.3–1.0 37.49N–.03 141.49E–.05 7–5 3.9s,3.7b
IDC V 01 05 06 04.6–.80 37.47N 141.48E 0 3.9,3.9L
JMA V 01 05 06 07.5 37.53N 141.28E 19–1 4.2,3.9L
NEIC V 01 05 06 08.9–2.1 37.48N 141.42E 29–15 4.2b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ61.00000°,λ-5.00000°. NP2:ϕ_s325.00000°,δ86.00000°,λ-151.00000°. $M_0$8.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.0km az=17.9.
IDC Error ellipse: s-maj=21.3km s-min=15.0km az=126.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=6.4km az=120.0. Recorded [3 JMA] in Fukushima.
ISC V 01 07 04 29.1–.41 35.93N–.03 141.07E–.04 24–2 4.5b,3.6s 216 0-147
NIED V 01 07 04 00 36.00N 141.10E 20 4.4W,3.6s **¶16485957**
ISCJB V 01 07 04 27.8–.53 35.90N–.02 141.07E–.03 27–3 4.4b,3.7s
JMA V 01 07 04 28.3–.10 35.91N 141.06E 30–1 4.4,3.7s
MOS V 01 07 04 28.5–1.0 35.92N 141.13E 33 4.6b,3.7s
NEIC V 01 07 04 30.7–1.6 35.86N 141.02E 35–11 4.6b,3.7s
IDC V 01 07 04 30.1–3.6 35.89N 141.01E 31–25 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ43.00000°,λ-56.00000°. NP2:ϕ_s10.00000°,δ56.00000°,λ-117.00000°. $M_0$4.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.0km az=26.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=99.6.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=111.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=16.0km s-min=12.2km az=99.0.
ISC V 01 09 32 11.6–.72 38.67N–.07 141.96E–.09 41 3.8b,3.4s 31 0-89
NIED V 01 09 32 00 38.60N 141.90E 50 4.2W,3.4s **¶16577938**
ISCJB V 01 09 32 09.7–.56 38.63N–.05 142.11E–.07 41 3.8b,3.4s
JMA V 01 09 32 12.2–.10 38.64N 141.89E 47–1 3.9,3.4s
IDC V 01 09 32 13.5–2.5 38.65N 141.83E 61–21 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ17.00000°,λ106.00000°. NP2:ϕ_s23.00000°,δ74.00000°,λ85.00000°. $M_0$1.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.6km az=135.7.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=16.5km az=136.0.
ISC V 01 09 36 33.2–.95 36.61N–.05 140.60E–.06 24–6 3.4b 19 0-60
NIED V 01 09 36 00 36.60N 140.60E 35 3.7W **¶16486827**
IDC V 01 09 36 29.4–1.1 36.46N 140.66E 0 3.6,3.5
ISCJB V 01 09 36 32.1–.82 36.58N–.05 140.70E–.07 28–4 3.4b,3.5
JMA V 01 09 36 33.7 36.63N 140.56E 22–1 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ12.00000°,λ-100.00000°. NP2:ϕ_s157.00000°,δ78.00000°,λ-88.00000°. $M_0$4.24000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=21.9km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.3km az=43.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s162.00000°,δ80.00000°,λ-91.00000°. NP2:ϕ_s350.00000°,δ10.00000°,λ-82.00000°. Principal axes: T Plg35.0000°,Azm253.0000°; N Plg1.0000°,Azm162.0000°; P Plg55.0000°,Azm70.0000°

ISC V 01 10 22 40.7–.48 35.90N–.04 140.76E–.04 32–3 4.7b,3.8s 340 0-151
NIED V 01 10 22 00 36.00N 140.90E 44 4.6W,3.8s **¶16485959**
ISCJB V 01 10 22 41.2–.35 35.84N–.03 140.73E–.03 52–3 4.7b,3.7s
JMA V 01 10 22 41.0–.10 35.90N 140.85E 42–1 4.4,3.7s
NEIC V 01 10 22 43.8–.53 35.84N 140.68E 60–4 4.8b,3.7s
IDC V 01 10 22 43.3–1.6 35.83N 140.75E 57–14 4.4,4.3
MOS V 01 10 22 44.3–.94 36.27N 140.65E 62 4.9b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ15.00000°,λ105.00000°. NP2:ϕ_s17.00000°,δ76.00000°,λ86.00000°. $M_0$9.98000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=145.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=130.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=13.7km s-min=9.1km az=92.0.
MOS Error ellipse: s-maj=7.5km s-min=4.7km az=104.2.
JMA V 01 10 23 49.7–.20 37.18N 141.43E 44–2 3.8
¶600603975
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 10 35 11.3–.91 39.04N–.04 142.33E–.06 31–6 3.8b 34 1-76
NIED V 01 10 35 00 39.00N 142.40E 29 3.7W **¶17202512**
ISCJB V 01 10 35 08.6–1.1 39.00N–.04 142.47E–.07 24–7 3.7b
JMA V 01 10 35 09.7–.10 39.04N 142.43E 31–2 3.7
IDC V 01 10 35 11.4–.79 38.95N 142.40E 32–6 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ32.00000°,λ-34.00000°. NP2:ϕ_s202.00000°,δ73.00000°,λ-118.00000°. $M_0$3.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.5km az=29.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=15.3km az=106.0.
ISC V 01 11 47 12.7–1.8 38.48N–.06 142.0E–.10 43–17 25 1-59
NIED V 01 11 47 00 38.50N 141.80E 17 3.8W **¶17202518**
ISCJB V 01 11 47 12.0–1.0 38.52N–.05 142.0E–.10 54–9 3.3b,2.9s
IDC V 01 11 47 13.0–3.2 38.51N 142.19E 54–31 3.5,3.4
JMA V 01 11 47 13.5 38.51N 141.85E 56–1 3.8,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ66.00000°,λ-174.00000°. NP2:ϕ_s128.00000°,δ84.00000°,λ-24.00000°. $M_0$5.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=6.3km az=19.6.
IDC Error ellipse: s-maj=42.0km s-min=19.0km az=104.0.
JMA Event type fe.
ISC V 01 12 39 02.8–1.8 40.23N–.04 142.53E–.06 5–11 3.8b 30 1-72
NIED V 01 12 39 00 40.20N 142.60E 17 3.5W **¶16577940**
ISCJB V 01 12 39 03.8–1.2 40.26N–.04 142.60E–.07 22–8 3.7b,3.4s
JMA V 01 12 39 03.8–.10 40.24N 142.61E 27–2 3.7,3.4s
IDC V 01 12 39 08.4–2.6 40.24N 142.59E 46–25 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ25.00000°,λ-12.00000°. NP2:ϕ_s243.00000°,δ85.00000°,λ-114.00000°. $M_0$2.08000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.3km az=2.1.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=30.2km s-min=18.1km az=115.0.
JMA V 01 12 54 05.7 36.91N 140.66E 7–1 2.9
¶600604044
ISC V 01 12 55 12.4–1.0 39.67N–.04 142.08E–.10 49–7 3.9b 28 0-73
NIED V 01 12 55 00 39.70N 142.10E 44 3.8W **¶600604045**
ISCJB V 01 12 55 11.2–.76 39.68N–.04 142.1E–.10 56–5 3.8b,2.4s
JMA V 01 12 55 12.3 39.67N 142.13E 47–1 3.6,2.4s
IDC V 01 12 55 14.1–2.6 39.65N 142.01E 67–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ13.00000°,λ74.00000°. NP2:ϕ_s16.00000°,δ77.00000°,λ94.00000°. $M_0$6.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=6.5km az=7.0.
JMA Event type fe.
IDC Error ellipse: s-maj=24.0km s-min=17.2km az=95.0.
ISC V 01 14 29 55.5–3.1 38.56N–.06 142.2E–.10 27–17 17 1-44
IDC V 01 14 29 44.1–2.6 37.04N 142.40E 0 3.4,3.3 **¶17202525**
ISCJB V 01 14 29 56.8–1.4 38.58N–.06 142.2E–.10 37–17 3.0b,3.3
JMA V 01 14 29 56.8–.10 38.59N 142.17E 38–2 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=26.0km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=8.1km az=19.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 01 14 29 57.9–2.4 35.76N–.07 141.3E–.20 28–14 11 0-60
ISCJB V 01 14 29 54.2–1.9 35.75N–.07 141.5E–.10 18–12 3.2b **¶600604096**
JMA V 01 14 30 00.1–.20 35.79N 140.99E 35–2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=11.0km az=159.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 15 25 47.7–1.8 35.34N–.09 141.4E–.20 35 3.2b 9 1-59
JMA V 01 15 25 37.3–.90 35.47N 142.01E 23 3.0 **¶600604133**
ISCJB V 01 15 25 44.6–1.8 35.3N–.10 141.5E–.20 35 3.3b
IDC V 01 15 25 49.5–5.7 34.48N 139.85E 0 3.5,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=6.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=25.7km s-min=10.6km az=152.1.
IDC Error ellipse: s-maj=223.6km s-min=23.5km az=67.0.
ISC V 01 16 52 37.5–1.4 38.7N–.10 142.3E–.20 27 3.4b 7 4-130
ISCJB V 01 16 52 37.2–.99 38.86N–.08 142.4E–.20 27 3.4b **¶17202538**
IDC V 01 16 52 43.4–3.3 39.03N 142.41E 63–30 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.9km s-min=11.7km az=5.3.
IDC Error ellipse: s-maj=34.0km s-min=22.4km az=109.0.
ISC V 01 18 43 49.3–1.4 36.38N–.06 141.68E–.09 19 3.2b 16 1-56
IDC V 01 18 43 45.4–2.3 36.45N 141.98E 0 3.3,3.3b **¶17202549**
ISCJB V 01 18 43 47.0–1.2 36.38N–.06 141.9E–.10 19 3.2b,3.3b
JMA V 01 18 43 47.0–.40 36.35N 141.80E 80 2.9,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=28.3km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.0km az=10.2.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISC V 01 18 51 17.5–1.9 36.01N–.09 141.5E–.10 35 8 1-60
JMA V 01 18 51 10.5–.30 36.05N 141.86E 55 2.7 **¶17202552**
IDC V 01 18 51 10.5–7.6 36.57N 141.88E 0 3.7,3.4
ISCJB V 01 18 51 15.8–1.6 36.19N–.10 141.5E–.20 35 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC V 01 20 31 48.2–.86 35.75N–.06 141.45E–.07 26 3.6b 19 0-91
NIED V 01 20 31 00 35.80N 141.40E 8 4.0W **¶17202559**
IDC V 01 20 31 44.9–1.1 35.60N 141.42E 0 3.8,3.7
ISCJB V 01 20 31 47.2–.77 35.78N–.05 141.47E–.08 26 3.7b,3.2s
JMA V 01 20 31 47.7–.30 35.78N 141.44E 24–2 3.5,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ5.00000°,λ-124.00000°. NP2:ϕ_s166.00000°,δ86.00000°,λ-87.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=28.6km s-min=21.9km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.3km az=17.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 01 22 05 18.2–.20 38.38N 142.31E 29–2 3.9
¶600604358
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 01 22 13 20.8–.10 35.51N 140.12E 23–1 2.5
¶600604362
ISC V 01 22 52 06.1–2.5 39.23N–.06 142.9E–.10 17–13 3.6b 19 1-59
ISCJB V 01 22 52 04.8–2.3 39.24N–.06 143.02E–.07 4–19 3.5b **¶17202567**
JMA V 01 22 52 05.8–.10 39.24N 143.03E 18–2 3.7
IDC V 01 22 52 12.2–3.4 39.22N 142.86E 69–30 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=9.6km az=159.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=43.5km s-min=21.7km az=101.0.

ISC V 01 23 25 26.2–1.2 37.74N–.04 141.82E–.07 41–11 4.2b 57 1-82
NIED V 01 23 25 00 37.80N 141.70E 56 4.0W **¶16577946**
IDC V 01 23 25 20.4–.73 37.87N 141.94E 0 4.1,4.0
ISCJB V 01 23 25 24.8–.70 37.70N–.03 141.87E–.06 46–5 4.0b,2.7s
NEIC V 01 23 25 27.0–.83 37.71N 141.86E 50–7 4.4b,2.7s
JMA V 01 23 25 28.1 37.78N 141.57E 48–1 4.1,2.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ30.00000°,λ107.00000°. NP2:ϕ_s19.00000°,δ61.00000°,λ80.00000°. $M_0$1.08000×10^{15}
IDC Error ellipse: s-maj=19.8km s-min=14.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.9km az=17.3.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.2km az=121.0. Recorded [2 JMA] in Fukushima.
JMA Event type fe.
ISC V 01 23 52 21.1–1.0 36.70N–.03 140.62E–.05 8–7 3.7b 22 0-64
IDC V 01 23 52 20.0–1.1 36.84N 140.58E 0 3.8,3.6 **¶16486836**
ISCJB V 01 23 52 20.1–.79 36.67N–.03 140.71E–.06 11–4 3.6b,3.6
JMA V 01 23 52 21.1 36.70N 140.63E 7–1 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.0km s-min=16.3km az=170.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.7km az=25.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s343.00000°,δ56.00000°,λ-74.00000°. NP2:ϕ_s135.00000°,δ37.00000°,λ-113.00000°. Principal axes: T Plg10.0000°,Azm61.0000°; N Plg14.0000°,Azm153.0000°; P Plg73.0000°,Azm296.0000°
ISC V 02 00 38 04.4–1.3 39.79N–.04 142.52E–.05 32–8 4.1b,3.3s 81 1-90
NEIC V 02 00 37 59.9–1.5 39.39N 143.36E 41–12 4.6b,3.3s **¶16501705**
ISCJB V 02 00 38 04.2–.62 39.76N–.04 142.48E–.06 44–5 4.2b,3.4s
MOS V 02 00 38 04.8–1.3 39.69N 142.48E 51 4.3b,3.4s
JMA V 02 00 38 06.0–.10 39.75N 142.37E 40–1 4.0,3.4s
IDC V 02 00 38 09.8–2.0 39.70N 142.29E 76–16 4.0,3.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=12.6km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.3km az=34.2.
MOS Error ellipse: s-maj=10.4km s-min=6.8km az=84.8.
JMA Event type fe.
IDC Error ellipse: s-maj=18.7km s-min=11.5km az=112.0.
JMA V 02 00 38 42.1 36.70N 140.60E 9–1 3.7
¶600604430
JMA Event type fe.
ISC V 02 00 49 07.5–1.5 36.41N–.04 140.90E–.06 26–10 3.9b 26 0-93
NIED V 02 00 49 00 36.30N 140.90E 20 3.7W **¶17202570**
JMA V 02 00 49 06.9–.10 36.33N 140.94E 39–1 3.8
ISCJB V 02 00 49 07.2–.85 36.36N–.04 140.95E–.08 40–7 3.9b,3.2s
IDC V 02 00 49 08.5–5.9 36.37N 140.93E 34–43 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ13.00000°,λ140.00000°. NP2:ϕ_s18.00000°,δ82.00000°,λ80.00000°. $M_0$3.68000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.3km az=14.9.
IDC Error ellipse: s-maj=35.4km s-min=16.2km az=73.0.
ISC V 02 01 09 24.6–.84 35.53N–.05 140.98E–.08 33 3.7b,2.8s 22 0-93
IDC V 02 01 09 19.5–.97 35.49N 141.05E 0 3.9,3.9 **¶17202571**
ISCJB V 02 01 09 22.6–.66 35.54N–.04 141.15E–.07 33 3.7b,2.8s
JMA V 02 01 09 24.6–.20 35.54N 140.93E 41–2 3.4,2.8s
ISC Event type ke.
IDC Error ellipse: s-maj=29.3km s-min=16.9km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=165.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 02 02 09 34.4–.40 37.64N–.04 141.72E–.04 45–3 4.6b,3.4s 411 1-146
NIED V 02 02 09 00 37.60N 141.70E 56 4.5W,3.4s **¶16486838**
MOS V 02 02 09 33.0–.98 37.74N 141.58E 40 4.9b,3.4s
ISCJB V 02 02 09 34.8–.35 37.65N–.02 141.57E–.03 58–2 4.6b,3.6s
JMA V 02 02 09 35.5–.10 37.65N 141.60E 48–2 4.7,3.6s
IDC V 02 02 09 36.3–.53 37.65N 141.57E 57–4 4.6,4.4
NEIC V 02 02 09 37.0–.48 37.62N 141.56E 65–4 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ33.00000°,λ91.00000°. NP2:ϕ_s14.00000°,δ57.00000°,λ89.00000°. $M_0$5.74000×10^{15}
MOS Error ellipse: s-maj=7.2km s-min=4.3km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=135.0.
JMA Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=10.0km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=148.0. Recorded [3 JMA] in Fukushima.
JMA V 02 03 25 02.8–.10 39.68N 142.65E 33–2 3.5
¶600604495
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 02 03 40 50.1–2.3 37.42N–.06 141.9E–.10 32–13 19 1-57
IDC V 02 03 40 43.0–3.3 37.53N 142.43E 0 3.5,3.4b **¶17202575**
JMA V 02 03 40 51.5–.10 37.42N 141.80E 43–3 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=70.6km s-min=41.0km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 02 03 51 31.1–.20 36.71N 141.83E 44–4 3.5
¶600604504
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 02 04 29 37.2–1.1 35.45N–.05 141.00E–.08 30–7 3.5b 26 0-79
ISCJB V 02 04 29 36.1–.74 35.45N–.04 141.07E–.08 43–6 3.5b,2.6s **¶17202576**
JMA V 02 04 29 37.2–.20 35.55N 140.94E 39–1 3.0,2.6s
IDC V 02 04 29 38.9–2.2 35.40N 141.00E 49–21 3.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.2km az=174.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=13.9km az=85.0.
ISC V 02 05 28 12.9–2.2 36.59N–.07 141.27E–.09 32–13 3.7b 26 1-75
NIED V 02 05 28 00 36.70N 141.30E 38 3.8W **¶17202581**
ISCJB V 02 05 28 12.3–1.3 36.65N–.06 141.50E–.10 44–10 3.7b
JMA V 02 05 28 13.5–.10 36.66N 141.33E 47–2 3.5
IDC V 02 05 28 16.9–2.9 36.65N 141.32E 68–24 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ13.00000°,λ-135.00000°. NP2:ϕ_s23.00000°,δ81.00000°,λ-81.00000°. $M_0$5.80000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=9.0km az=22.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.5km s-min=19.3km az=87.0.
ISC V 02 06 25 13.0–.77 39.96N–.04 142.47E–.07 31 3.7b 32 0-70
NIED V 02 06 25 00 39.90N 142.40E 38 3.8W **¶17202586**
ISCJB V 02 06 25 11.1–.57 39.91N–.04 142.59E–.06 31 3.7b,3.0s
JMA V 02 06 25 13.6–.10 39.92N 142.40E 38–1 3.7,3.0s
IDC V 02 06 25 18.8–2.1 39.84N 142.34E 87–18 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ13.00000°,λ129.00000°. NP2:ϕ_s18.00000°,δ80.00000°,λ82.00000°. $M_0$4.75000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.3km az=36.4.
JMA Event type fe.
IDC Error ellipse: s-maj=19.1km s-min=13.0km az=110.0.
ISC V 02 06 44 18.7–1.6 36.37N–.05 140.85E–.06 31–11 3.5b 30 0-65
NIED V 02 06 44 00 36.30N 140.80E 50 3.7W **¶17202587**
JMA V 02 06 44 19.7–.10 36.35N 140.82E 49–1 3.8
IDC V 02 06 44 21.4–2.1 36.34N 140.88E 62–20 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ40.00000°,λ112.00000°. NP2:ϕ_s356.00000°,δ54.00000°,λ73.00000°. $M_0$4.41000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=18.6km s-min=10.5km az=69.0.
ISC V 02 07 55 17.3–1.3 36.62N–.04 140.88E–.06 17–7 3.7b 31 0-78
NIED V 02 07 55 00 36.60N 140.80E 14 3.7W **¶16486855**
ISCJB V 02 07 55 16.6–.81 36.59N–.04 140.95E–.06 26–5 3.8b
JMA V 02 07 55 18.1 36.60N 140.83E 28–1 3.9
IDC V 02 07 55 22.2–2.3 36.55N 140.78E 60–24 3.6,3.5

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ32.00000°,λ-56.00000°. NP2:ϕ_s128.00000°,δ64.00000°,λ-110.00000°. $M_0$3.53000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.1km az=29.0.
JMA Event type fe.
IDC Error ellipse: s-maj=19.5km s-min=10.4km az=68.0.

ISC	**V**	**02 09 52 50.5–.60**	**37.07N–.04**	**141.47E–.05**	**31–3**	**3.7b**	**46**	**1-147**
NIED	V	02 09 52 00	37.10N	141.40E	41	3.7W		¶17202603
ISCJB	V	02 09 52 50.5–.74	37.05N–.03	141.45E–.07	47–7	3.6b,2.7s		
JMA	V	02 09 52 51.4–.10	37.08N	141.41E	46–2	3.9,2.7s		
IDC	V	02 09 52 52.6–.58	37.05N	141.34E	48–5	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ23.00000°,λ124.00000°. NP2:ϕ_s225.00000°,δ71.00000°,λ77.00000°. $M_0$3.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.3km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=9.7km az=111.0.

ISC	**V**	**02 11 29 48.8–.40**	**38.59N–.04**	**141.98E–.04**	**44–3**	**4.5b,3.5s**	**207**	**1-146**
NIED	V	02 11 29 00	38.60N	141.90E	47	4.4W,3.5s		¶16487756
MOS	V	02 11 29 45.8–.98	38.63N	141.89E	33	4.6b,3.5s		
ISCJB	V	02 11 29 47.6–.42	38.62N–.02	141.96E–.04	52–3	4.4b,3.6s		
JMA	V	02 11 29 49.0–.10	38.62N	141.89E	49–1	4.3,3.6s		
IDC	V	02 11 29 49.0–.45	38.64N	141.81E	46–3	4.3,4.2		
NEIC	V	02 11 29 50.7–.59	38.64N	141.88E	63–5	4.7b,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ20.00000°,λ74.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ96.00000°. $M_0$4.55000×10^{15}
MOS Error ellipse: s-maj=8.7km s-min=5.3km az=100.6.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=24.0.
JMA Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.4km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.2km az=125.0. Recorded [3 JMA] in Miyagi.

ISC	**V**	**02 12 36 46.0–.31**	**38.33N–.04**	**142.22E–.03**	**30–1**	**4.8b,4.2s**	**750**	**1-145**
NIED	V	02 12 36 00	38.30N	142.20E	38	4.8W,4.2s		¶16487758
IDC	V	02 12 36 41.6–.44	38.27N	142.10E	0	4.7,4.7		
JMA	V	02 12 36 45.7–.10	38.31N	142.23E	38–2	4.7,4.7		
MOS	V	02 12 36 46.5–.95	38.52N	142.06E	33	5.0b,4.0s		
ISCJB	V	02 12 36 47.0–.42	38.34N–.03	142.10E–.02	44–3	4.8b,4.2s		
NEIC	V	02 12 36 49.4–.45	38.33N	142.06E	52–4	4.8b,4.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s11.00000°,δ50.00000°,λ-97.00000°. $M_0$1.65000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=10.6km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=99.7.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=158.2.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=142.0. Recorded [2 JMA] in Iwate and Miyagi.

JMA	**V**	**02 13 48 01.6**	**36.86N**	**140.59E**	**9–1**	**2.5**		
								¶600604840
IDC	**V**	**02 15 10 17.1–5.7**	**36.35N**	**141.76E**	**0**	**3.4,3.3b**		
								¶17202619

IDC Error ellipse: s-maj=126.7km s-min=40.6km az=36.0.

ISC	**V**	**02 15 14 20.8–1.6**	**36.72N–.05**	**141.24E–.08**	**32–10**	**3.5b**	**29**	**1-74**
NIED	V	02 15 14 00	36.70N	141.10E	53	3.8W		¶17202620
IDC	V	02 15 14 15.9–.88	36.72N	141.35E	0	3.8,3.7		
ISCJB	V	02 15 14 20.3–.96	36.69N–.04	141.25E–.09	44–8	3.8s,3.5b		
JMA	V	02 15 14 22.6–.10	36.72N	141.05E	46–1	3.6,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ26.00000°,λ20.00000°. NP2:ϕ_s219.00000°,δ81.00000°,λ115.00000°. $M_0$5.17000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=15.9km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=12.7km s-min=5.8km az=11.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**V**	**02 15 27 48.5**	**36.99N**	**140.53E**	**6–1**	**2.6**		
								¶600604899
ISC	**V**	**02 15 39 53.1–1.4**	**35.49N–.06**	**141.0E–.10**	**33**	**3.5b**	**12**	**0-83**
ISCJB	V	02 15 39 52.2–1.1	35.56N–.08	141.1E–.10	33	3.4b,3.4s		¶17202621
IDC	V	02 15 39 52.2–4.4	36.16N	140.85E	0	3.5,3.4b		
JMA	V	02 15 39 53.0–.20	35.55N	140.93E	40–2	3.0,3.4b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=10.5km az=163.0.
IDC Error ellipse: s-maj=105.3km s-min=30.4km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**02 16 11 37.0–.47**	**35.91N–.05**	**141.64E–.05**	**26**	**4.2b,4.0s**	**129**	**1-147**
NIED	V	02 16 11 00	36.00N	141.60E	8	4.2W,4.0s		¶16489787
NEIC	V	02 16 11 33.9–2.5	35.94N	141.60E	4–15	4.7b,4.0s		
IDC	V	02 16 11 33.1–.57	35.89N	141.57E	0	4.2,4.1		
JMA	V	02 16 11 35.5–.20	35.99N	141.62E	35–3	4.4,4.1		
ISCJB	V	02 16 11 35.3–.30	35.93N–.03	141.62E–.04	26	4.3s,4.3b		
MOS	V	02 16 11 35.7–.86	35.80N	141.62E	33	4.4b,4.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ36.00000°,λ65.00000°. NP2:ϕ_s260.00000°,δ57.00000°,λ107.00000°. $M_0$2.49000×10^{15}
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=118.0.
IDC Error ellipse: s-maj=15.0km s-min=12.2km az=106.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.0km az=37.1.
MOS Error ellipse: s-maj=10.9km s-min=6.8km az=123.2.

JMA	**V**	**02 16 15 57.7–.20**	**36.02N**	**141.56E**	**21–3**	**3.5**		
								¶600604926

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**V**	**02 16 28 39.6**	**36.99N**	**140.53E**	**7–1**	**2.6**		
								¶600604934
ISC	**V**	**02 17 44 09.1–1.1**	**37.20N–.06**	**141.61E–.07**	**33**	**3.4b**	**19**	**1-57**
NIED	V	02 17 44 00	37.20N	141.50E	35	3.5W		¶17202627
IDC	V	02 17 44 04.5–1.4	37.06N	141.93E	0	3.6,3.6		
JMA	V	02 17 44 10.5–.20	37.20N	141.52E	46–2	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ53.00000°,λ131.00000°. NP2:ϕ_s216.00000°,δ53.00000°,λ49.00000°. $M_0$2.25000×10^{14}
IDC Error ellipse: s-maj=30.3km s-min=20.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**V**	**02 18 42 35.3–.10**	**37.58N**	**141.70E**	**22–2**	**3.7**		
NIED	V	02 18 42 00	37.60N	141.70E	11	3.4W		¶600605052

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s98.00000°,δ45.00000°,λ31.00000°. NP2:ϕ_s345.00000°,δ68.00000°,λ131.00000°. $M_0$1.42000×10^{14}

ISC	**V**	**02 19 42 25.9–1.9**	**37.19N–.04**	**141.84E–.06**	**9–10**	**3.5b**	**29**	**1-64**
NIED	V	02 19 42 00	37.20N	141.70E	32	3.9W		¶17202635
JMA	V	02 19 42 28.4–.20	37.18N	141.73E	34–3	3.6		
IDC	V	02 19 42 31.9–3.2	36.98N	141.89E	66–35	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ73.00000°,λ-164.00000°. NP2:ϕ_s89.00000°,δ75.00000°,λ-17.00000°. $M_0$8.50000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=17.8km az=41.0.

ISC	**V**	**02 20 01 47.6–1.4**	**36.66N–.05**	**141.2E–.10**	**43–12**	**3.9b,3.1s**	**32**	**0-147**
NIED	V	02 20 01 00	36.70N	141.10E	44	4.0W,3.1s		¶17202638
ISCJB	V	02 20 01 46.0–.80	36.64N–.04	141.20E–.08	45–6	3.9b,3.3s		
JMA	V	02 20 01 47.3–.10	36.66N	141.10E	45–1	4.0,3.3s		
IDC	V	02 20 01 51.1–2.2	36.56N	140.98E	77–20	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ1.00000°,λ-177.00000°. NP2:ϕ_s27.00000°,δ90.00000°,λ-89.00000°. $M_0$1.23000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.4km az=13.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=9.6km az=67.0.

ISC	**V**	**02 20 31 16.3–.62**	**37.18N–.04**	**141.33E–.06**	**27–3**	**4.5b**	**110**	**0-151**
NIED	V	02 20 31 00	37.20N	141.40E	20	4.2W		¶16577961

ISCJB V 02 20 31 14.8–.82 37.18N–.03 141.38E–.06 28–5 4.4b,3.1s
JMA V 02 20 31 16.0–.20 37.17N 141.31E 34–1 4.3,3.1s
IDC V 02 20 31 16.6–.60 37.21N 141.25E 28–3 4.4,4.3
NEIC V 02 20 31 17.9–.82 37.23N 141.27E 37–7 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ33.00000°,λ-98.00000°. NP2:ϕ_s73.00000°,δ58.00000°,λ-85.00000°. $M_0$2.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.2km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=140.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.5km az=136.0. Recorded [2 JMA] in Fukushima and Miyagi.

ISC	**V**	**02 21 25 49.7–.29**	**40.07N–.03**	**142.67E–.04**	**38–1**	**5.1b,4.6s**	**884**	**1-151**
NIED	V	02 21 25 00	40.10N	142.70E	35	5.1W,4.6s		¶16487926
BJI	V	02 21 25 45.0	39.93N	142.81E	31	5.1b,5.0b		
JMA	V	02 21 25 47.9–.20	40.06N	142.72E	31–2	5.1,5.0b		
ISCJB	V	02 21 25 48.8–.37	40.08N–.02	142.59E–.02	40–3	5.1b,4.5s		
MOS	V	02 21 25 48.3–.84	40.21N	142.55E	31	5.4b,4.7s		
NEIC	V	02 21 25 49.5–.14	40.10N	142.56E	32	5.1b,4.7s		
GCMT	V	02 21 25 49.5–.20	40.13N	142.77E	37–0	5.1W,4.7s		
IDC	V	02 21 25 50.0–1.8	40.08N	142.71E	40–15	4.9,4.7b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ69.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ98.00000°. $M_0$4.51000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=138.6.
MOS Error ellipse: s-maj=6.3km s-min=3.6km az=107.3.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=140.0. Recorded [3 JMA] in Iwate.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c76; s86,c150; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.08±.17 $M_{\theta\theta}$-0.30±.10; $M_{\phi\phi}$-3.78±.11; $M_{r\theta}$1.27±.10; $M_{\theta\phi}$-0.71±.06; $M_{\phi r}$3.27±.11; Best double couple: NP1:ϕ_s18.00000°,δ66.00000°,λ95.00000°. NP2:ϕ_s185.00000°,δ25.00000°,λ79.00000°. Principal axes: T 5.4240,Plg69.0000°,Azm298.0000°; N -0.2120,Plg5.0000°,Azm195.0000° ; P -5.2140,Plg21.0000°,Azm104.0000° $M_0$5.31900×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=113.0.

ISC	**V**	**02 23 46 03.3–2.1**	**39.17N–.06**	**142.4E–.10**	**32–11**	**3.6b**	**19**	**1-59**
IDC	V	02 23 45 56.6–2.7	39.20N	142.94E	0	3.8,3.7b		¶17202648
NIED	V	02 23 46 00	39.10N	142.40E	32	3.5W,3.7b		
ISCJB	V	02 23 46 03.4–1.6	39.09N–.06	142.3E–.20	46–12	3.6b,3.7b		
JMA	V	02 23 46 03.3–.10	39.10N	142.37E	35–1	3.6,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=68.4km s-min=29.8km az=71.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ21.00000°,λ-39.00000°. NP2:ϕ_s149.00000°,δ77.00000°,λ-107.00000°. $M_0$1.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=20.6km s-min=8.1km az=17.3.
JMA Event type fe.

JMA	**V**	**03 00 10 14.1–.10**	**38.95N**	**142.35E**	**33–2**	**3.9**		
NIED	V	03 00 10 00	38.90N	142.40E	56	4.5W		¶600605303

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ35.00000°,λ-25.00000°. NP2:ϕ_s117.00000°,δ76.00000°,λ-123.00000°. $M_0$6.24000×10^{15}

ISC	**V**	**03 02 13 23.9–.92**	**36.95N–.03**	**140.63E–.04**	**13–6**	**3.5b**	**29**	**0-147**
NIED	V	03 02 13 00	37.00N	140.60E	8	3.7W		¶600605358
ISCJB	V	03 02 13 23.4–.54	36.93N–.03	140.74E–.05	19–4	3.6b		
JMA	V	03 02 13 24.2	36.96N	140.62E	9–1	3.8		
IDC	V	03 02 13 29.1–2.6	36.82N	140.64E	55–26	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ43.00000°,λ-77.00000°. NP2:ϕ_s32.00000°,δ48.00000°,λ-102.00000°. $M_0$4.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.3km az=19.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s45.00000°,δ47.00000°,λ-90.00000°. NP2:ϕ_s225.00000°,δ43.00000°,λ-90.00000°. Principal axes: T Plg2.0000°,Azm135.0000°; N Plg0.0000°,Azm45.0000°; P Plg88.0000° ,Azm315.0000°
IDC Error ellipse: s-maj=21.0km s-min=11.6km az=55.0.

ISC	**V**	**03 03 43 27.0–.88**	**36.63N–.05**	**141.62E–.06**	**26**	**3.6b**	**24**	**1-64**
ISCJB	V	03 03 43 25.8–.73	36.58N–.04	141.66E–.07	26	3.5b		¶17202653
JMA	V	03 03 43 28.9–.10	36.64N	141.42E	49–3	3.4		
IDC	V	03 03 43 28.4–4.6	36.57N	141.69E	34–38	3.9,3.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=7.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.9km s-min=19.2km az=90.0.

ISC	**V**	**03 03 57 49.7–.79**	**36.79N–.05**	**141.27E–.06**	**13–3**	**3.8b**	**32**	**0-147**
NIED	V	03 03 57 00	36.80N	141.20E	8	3.7W		¶600605398
ISCJB	V	03 03 57 48.5–1.1	36.75N–.04	141.36E–.06	18–7	3.7b,3.2s		
IDC	V	03 03 57 50.7–.93	36.72N	141.21E	19–5	3.8,3.7		
JMA	V	03 03 57 50.2–.10	36.76N	141.22E	36–1	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ39.00000°,λ-83.00000°. NP2:ϕ_s200.00000°,δ51.00000°,λ-95.00000°. $M_0$4.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.3km az=18.5.
IDC Error ellipse: s-maj=20.1km s-min=14.8km az=91.0.
JMA Event type fe.

ISC	**V**	**03 05 10 05.0–2.0**	**38.23N–.04**	**142.14E–.08**	**5–12**	**3.4b**	**25**	**1-62**
NIED	V	03 05 10 00	38.30N	142.10E	29	3.5W		¶17202656
JMA	V	03 05 10 09.2–.10	38.29N	142.09E	42–1	3.8		
IDC	V	03 05 10 10.5–4.7	38.10N	142.60E	45–43	3.4,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ30.00000°,λ108.00000°. NP2:ϕ_s220.00000°,δ62.00000°,λ80.00000°. $M_0$1.85000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.5km s-min=22.5km az=100.0.

ISC	**V**	**03 05 26 08.6–.99**	**34.85N–.03**	**140.17E–.04**	**27–7**	**4.1b,3.4s**	**45**	**0-149**
NIED	V	03 05 26 00	35.00N	140.20E	11	4.0W,3.4s		¶16708669
IDC	V	03 05 26 05.0–.61	34.91N	140.09E	0	4.2,4.1L		
ISCJB	V	03 05 26 08.3–.39	34.92N–.03	140.24E–.05	40–4	4.0b,3.5s		
JMA	V	03 05 26 08.9–.10	35.00N	140.24E	33–2	4.2,3.5s		
NEIC	V	03 05 26 09.9–.37	34.90N	140.06E	35	4.3b,3.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ28.00000°,λ-137.00000°. NP2:ϕ_s231.00000°,δ71.00000°,λ-69.00000°. $M_0$1.33000×10^{15}
IDC Error ellipse: s-maj=19.2km s-min=13.0km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.3km az=161.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s21.00000°,δ51.00000°,λ-105.00000°. NP2: ϕ_s225.00000°,δ41.00000°,λ-72.00000°. Principal axes: T Plg5.0000°,Azm122.0000° ; N Plg12.0000°,Azm31.0000°; P Plg77.0000°,Azm234.0000°
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.6km az=76.0. Recorded [2 JMA] in Chiba.

ISC	**V**	**03 06 22 25.5–1.8**	**35.76N–.05**	**141.47E–.07**	**15–10**	**4.1b**	**42**	**0-147**
NIED	V	03 06 22 00	35.80N	141.40E	23	4.2W		¶16577965
JMA	V	03 06 22 25.3–.30	35.80N	141.44E	10–4	4.2		
ISCJB	V	03 06 22 26.4–1.0	35.72N–.04	141.45E–.08	35–9	4.0b,3.1s		
NEIC	V	03 06 22 28.3–1.1	35.67N	141.41E	37–9	4.5b,3.1s		
IDC	V	03 06 22 28.5–3.4	35.68N	141.38E	37–29	4.0,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ41.00000°,λ-48.00000°. NP2:ϕ_s172.00000°,δ61.00000°,λ-120.00000°. $M_0$1.99000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.8km az=174.7.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=7.1km az=121.0. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=18.4km s-min=16.4km az=112.0.

JMA	**V**	**03 08 05 16.0–.10**	**36.36N**	**140.88E**	**37–1**	**2.6**		
								¶600605542
ISC	**V**	**03 10 20 30.3–1.6**	**36.02N–.08**	**141.1E–.10**	**31**	**3.4b**	**12**	**0-65**
ISCJB	V	03 10 20 29.2–1.2	35.99N–.07	141.2E–.10	31	3.4b		¶17202668
JMA	V	03 10 20 29.5–.10	35.96N	141.11E	19–2	3.4		
IDC	V	03 10 20 35.4–6.8	35.58N	141.16E	33–54	3.4,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=7.3km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=33.1km s-min=19.9km az=90.0.
ISC V 03 10 26 02.4–2.6 36.55N–.05 142.00E–.06 7–15 4.2b,3.5s 84 1-147
NIED V 03 10 26 00 36.60N 141.90E 26 4.2W,3.5s **¶16577968**
ISCJB V 03 10 26 02.5–1.0 36.54N–.03 142.01E–.04 21–7 4.1b,3.4s
JMA V 03 10 26 05.5–.20 36.61N 141.88E 38–5 4.1,3.4s
MOS V 03 10 26 05.1–1.3 36.63N 141.96E 41 4.4b,3.4s
NEIC V 03 10 26 06.9–.41 36.57N 141.92E 35 4.3b,3.4s
IDC V 03 10 26 09.0–2.4 36.47N 141.81E 55–23 4.1,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ6.00000°,λ-143.00000°. NP2:ϕ_s222.00000°,δ86.00000°,λ-85.00000°. $M_0$2.28000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=10.4km s-min=7.5km az=93.3.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=7.8km az=124.0. Recorded [1 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=17.6km s-min=10.3km az=79.0.
ISC V 03 11 44 08.8–.71 37.49N–.04 141.48E–.05 57–5 4.5b,3.2s 130 0-150
NIED V 03 11 44 00 37.50N 141.40E 47 4.2W,3.2s **¶600605700**
ISCJB V 03 11 44 07.0–.48 37.48N–.03 141.47E–.05 57–3 4.4b,3.4s
MOS V 03 11 44 07.6–1.0 37.54N 141.41E 62 4.7b,3.4s
JMA V 03 11 44 08.5–.10 37.51N 141.38E 49–1 4.3,3.4s
IDC V 03 11 44 09.1–1.9 37.47N 141.26E 56–17 4.2,4.1
NEIC V 03 11 44 10.2–.75 37.48N 141.41E 70–6 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ18.00000°,λ107.00000°. NP2:ϕ_s18.00000°,δ73.00000°,λ85.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=23.8.
MOS Error ellipse: s-maj=8.9km s-min=6.2km az=99.2.
JMA Event type fe.
IDC Error ellipse: s-maj=16.0km s-min=10.3km az=91.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.8km az=115.0. Recorded [2 JMA] in Fukushima and Miyagi.
JMA V 03 13 35 41.2 36.74N 140.56E 9 2.5
¶602919011
JMA Event type fe.
ISC V 03 13 35 54.3–.47 38.89N–.03 141.98E–.04 46–3 4.8b,4.1s 497 0-145
ISCJB V 03 13 35 54.3–.33 38.86N–.02 141.93E–.03 56–2 4.8b,4.0s **¶16489807**
MOS V 03 13 35 54.3–.92 39.04N 141.90E 49 5.1b,4.0s
IDC V 03 13 35 54.9–1.7 38.86N 141.95E 47–16 4.7,4.6
JMA V 03 13 35 54.1–.10 38.80N 142.04E 47–1 4.8,4.6
NEIC V 03 13 35 56.2–.45 38.85N 141.90E 60–4 4.7b,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=136.7.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=105.5.
IDC Error ellipse: s-maj=12.3km s-min=9.6km az=107.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=137.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC V 03 14 02 27.4–1.9 37.17N–.04 141.34E–.07 10–11 3.1b 19 0-64
IDC V 03 14 02 26.3–1.8 37.27N 141.34E 0 3.3,3.2 **¶600605801**
ISCJB V 03 14 02 27.6–1.3 37.16N–.04 141.38E–.09 22–8 3.1b,3.2
JMA V 03 14 02 30.1–.10 37.20N 141.20E 30–1 3.4,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=49.7km s-min=26.2km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.8km az=14.6.
JMA Event type fe.
ISC V 03 15 13 03.1–1.9 39.16N–.06 142.43E–.09 29–12 18 1-81
IDC V 03 15 12 58.3–1.9 38.96N 143.34E 0 3.4,3.3b **¶17202687**
ISCJB V 03 15 13 03.1–1.4 39.23N–.05 142.50E–.09 29–7 3.4b,3.3s
JMA V 03 15 13 03.5–.10 39.23N 142.48E 33–1 3.1,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=62.2km s-min=33.2km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.6km az=19.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 03 15 27 48.1–1.1 35.74N–.05 140.75E–.08 49–9 18 0-56
IDC V 03 15 27 41.8–2.0 35.72N 140.98E 0 3.5,3.5 **¶17202689**
ISCJB V 03 15 27 46.7–.76 35.76N–.05 140.82E–.09 58–6 4.0s,3.5b
JMA V 03 15 27 48.2–.10 35.76N 140.66E 47–1 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=47.4km s-min=24.5km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.4km az=159.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 03 15 31 22.1–2.4 39.09N–.06 142.3E–.10 27–12 3.4b 22 1-63
NIED V 03 15 31 00 39.00N 142.40E 32 3.2W **¶17202691**
JMA V 03 15 31 21.0–.10 39.04N 142.40E 31–2 3.6
IDC V 03 15 31 22.5–2.8 39.44N 141.87E 0 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ14.00000°,λ-145.00000°. NP2:ϕ_s184.00000°,δ82.00000°,λ-79.00000°. $M_0$8.22000×10^{13}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=72.5km s-min=35.4km az=64.0.
ISC V 03 15 44 54.6–1.9 37.10N–.06 141.54E–.08 24–13 3.8b 25 1-147
NIED V 03 15 44 00 37.20N 141.40E 44 3.9W **¶17202693**
IDC V 03 15 44 50.7–.83 37.07N 141.77E 0 4.0,3.9
ISCJB V 03 15 44 52.3–1.3 37.05N–.04 141.62E–.08 22–8 4.3s,3.8b
JMA V 03 15 44 55.5–.10 37.18N 141.38E 48–1 3.9,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ49.00000°,λ142.00000°. NP2:ϕ_s199.00000°,δ62.00000°,λ48.00000°. $M_0$7.85000×10^{14}
IDC Error ellipse: s-maj=20.7km s-min=18.0km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.9km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 03 16 41 32.0–1.9 36.74N–.05 141.58E–.08 24–13 3.2b 25 1-57
NIED V 03 16 41 00 36.80N 141.30E 41 3.6W **¶17202697**
ISCJB V 03 16 41 32.1–1.2 36.71N–.04 141.55E–.07 31–6 3.3b
IDC V 03 16 41 34.5–2.6 36.80N 141.55E 44–24 3.5,3.4
JMA V 03 16 41 35.1–.10 36.75N 141.33E 48–2 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ32.00000°,λ2.00000°. NP2:ϕ_s56.00000°,δ89.00000°,λ122.00000°. $M_0$2.62000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.8km az=6.4.
IDC Error ellipse: s-maj=24.1km s-min=16.0km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 03 17 35 23.9–1.8 35.75N–.04 141.45E–.07 4–11 3.6b 25 0-79
NIED V 03 17 35 00 35.80N 141.50E 8 3.9W **¶17202698**
IDC V 03 17 35 23.1–.86 35.65N 141.50E 0 3.8,3.6
ISCJB V 03 17 35 24.4–1.3 35.75N–.04 141.54E–.07 21–8 3.6b,3.4s
JMA V 03 17 35 25.4–.20 35.77N 141.46E 18–2 3.5,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ7.00000°,λ-127.00000°. NP2:ϕ_s167.00000°,δ85.00000°,λ-86.00000°. $M_0$8.95000×10^{14}
IDC Error ellipse: s-maj=28.4km s-min=17.0km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.8km az=7.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 03 18 40 08.1–1.1 36.32N–.03 140.91E–.05 19–4 3.7b 23 0-75
NIED V 03 18 40 00 36.20N 141.00E 26 3.9W **¶17202704**
JMA V 03 18 40 09.1 36.25N 141.01E 38–1 3.8
IDC V 03 18 40 11.7–2.9 36.24N 141.04E 44–30 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ32.00000°,λ-66.00000°. NP2:ϕ_s183.00000°,δ61.00000°,λ-104.00000°. $M_0$7.04000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=11.8km az=69.0.
IDC V 03 18 40 10.2–1.8 40.50N 141.76E 0 3.6b,3.5
¶16708729
IDC Error ellipse: s-maj=43.0km s-min=25.6km az=74.0.
ISC V 03 20 45 20.2–1.1 35.66N–.05 140.06E–.07 73–8 21 0-56
IDC V 03 20 45 07.5–3.5 35.97N 141.19E 0 3.7,3.7b **¶600606076**
ISCJB V 03 20 45 19.5–.81 35.65N–.05 140.08E–.07 75–5 3.7b,3.7b
JMA V 03 20 45 20.6–.10 35.67N 140.07E 67–2 3.1,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=92.6km s-min=28.4km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.4km az=165.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 03 20 58 32.4–.10 37.41N 141.28E 34–1 3.5
NIED V 03 20 58 00 37.40N 141.30E 44 3.6W **¶600606080**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ81.00000°,λ-7.00000°. NP2:ϕ_s136.00000°,δ83.00000°,λ-171.00000°. $M_0$2.96000×10^{14}
ISC V 03 22 01 30.1–1.1 38.34N–.04 142.07E–.07 42–10 4.1b,3.0s 82 1-146
NIED V 03 22 01 00 38.40N 142.00E 50 4.0W,3.0s **¶600606104**
NEIC V 03 22 01 11.6–1.7 37.16N 144.61E 37–13 4.5b,3.0s
ISCJB V 03 22 01 28.7–.62 38.33N–.03 142.09E–.06 46–5 4.1b,3.1s
JMA V 03 22 01 30.4 38.39N 141.98E 47–1 4.2,3.1s
IDC V 03 22 01 30.9–1.4 38.30N 142.02E 52–13 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ19.00000°,λ66.00000°. NP2: ϕ_s207.00000°,δ73.00000°,λ98.00000°. $M_0$1.26000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=18.1km s-min=11.2km az=132.0. Recorded [2 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.1km az=19.8.
JMA Event type fe.
IDC Error ellipse: s-maj=12.4km s-min=8.1km az=109.0.
JMA V 03 23 57 59.9 36.70N 140.63E 5–1 1.8
¶16497589
ISC V 03 23 58 07.6–.64 36.91N–.06 141.55E–.06 33 4.1b,3.5s 56 1-147
NIED V 03 23 58 00 36.70N 141.80E 35 4.3W,3.5s **¶600606161**
JMA V 03 23 58 03.8–.40 36.72N 141.85E 40 4.1,3.5s
ISCJB V 03 23 58 05.0–.49 36.77N–.04 141.77E–.06 33 4.0b,3.5s
IDC V 03 23 58 12.2–2.1 37.19N 141.33E 59–17 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ23.00000°,λ95.00000°. NP2:ϕ_s17.00000°,δ67.00000°,λ88.00000°. $M_0$2.93000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.1km az=41.2.
IDC Error ellipse: s-maj=17.0km s-min=12.3km az=123.0.
ISC V 04 01 43 35.0–1.5 37.05N–.05 141.3E–.10 44–11 3.8b 20 0-57
NIED V 04 01 43 00 37.10N 141.20E 44 3.6W **¶17202722**
IDC V 04 01 43 33.2–4.2 37.15N 141.59E 36–35 3.7,3.6
ISCJB V 04 01 43 34.7–1.1 37.04N–.05 141.2E–.10 52–6 3.6b,3.0s
JMA V 04 01 43 35.7–.10 37.07N 141.18E 51–1 3.8,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ11.00000°,λ94.00000°. NP2:ϕ_s15.00000°,δ79.00000°,λ89.00000°. $M_0$3.27000×10^{14}
IDC Error ellipse: s-maj=45.6km s-min=22.7km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=8.2km az=7.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 04 03 05 49.3–.10 38.45N 142.23E 25–2 3.6
NIED V 04 03 05 00 38.40N 142.20E 35 3.9W **¶600606269**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ34.00000°,λ-68.00000°. NP2:ϕ_s137.00000°,δ59.00000°,λ-104.00000°. $M_0$7.72000×10^{14}
ISC V 04 03 47 30.0–.68 35.81N–.06 140.52E–.08 50 3.7b 23 0-76
NIED V 04 03 47 00 35.90N 140.60E 53 4.1W **¶16577980**
ISCJB V 04 03 47 28.8–.44 35.80N–.04 140.44E–.08 50 3.8b
JMA V 04 03 47 30.1–.10 35.88N 140.55E 45–1 3.3
IDC V 04 03 47 31.5–2.1 35.84N 140.32E 60–20 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ18.00000°,λ121.00000°. NP2:ϕ_s331.00000°,δ75.00000°,λ80.00000°. $M_0$1.36000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=5.6km az=165.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s336.00000°,δ79.00000°,λ76.00000°. NP2:ϕ_s208.00000°,δ17.00000°,λ141.00000°. Principal axes: T Plg54.0000°,Azm229.0000°; N Plg13.0000°,Azm338.0000°; P Plg33.0000° ,Azm77.0000°
IDC Error ellipse: s-maj=23.2km s-min=14.5km az=80.0.
JMA V 04 04 12 01.2–.10 37.65N 141.61E 47–2 3.5
NIED V 04 04 12 00 37.60N 141.60E 68 3.8W **¶600606319**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ79.00000°,λ170.00000°. NP2:ϕ_s122.00000°,δ80.00000°,λ11.00000°. $M_0$5.92000×10^{14}
ISC V 04 04 52 22.9–2.0 36.01N–.08 141.08E–.10 14–13 3.9s,3.5b 14 0-65
NIED V 04 04 52 00 35.90N 141.10E 8 3.7W,3.5b **¶600606336**
IDC V 04 04 52 20.6–1.4 35.89N 141.29E 0 3.5,3.4b
ISCJB V 04 04 52 22.8–1.1 35.94N–.06 141.13E–.09 29–6 3.8s,3.5b
JMA V 04 04 52 22.7–.10 35.95N 141.15E 24–2 3.8,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ39.00000°,λ26.00000°. NP2:ϕ_s134.00000°,δ74.00000°,λ126.00000°. $M_0$3.98000×10^{14}
IDC Error ellipse: s-maj=35.6km s-min=31.7km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=8.9km az=153.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 04 05 41 45.7–.42 40.88N–.03 141.43E–.03 85–3 4.9b 954 0-159
NIED V 04 05 41 00 40.80N 141.40E 83 4.7W **¶16491561**
BJI V 04 05 41 34.0 40.66N 141.94E 36 5.1b,5.0b
NEIC V 04 05 41 40.5–.12 40.79N 141.27E 35 5.0b,5.0b
MOS V 04 05 41 45.0–1.1 40.90N 141.26E 89 4.8b,5.0b
ISCJB V 04 05 41 46.0–.20 40.87N–.02 141.26E–.02 97–1 4.8b,5.0b
JMA V 04 05 41 46.4–.10 40.85N 141.41E 92–1 4.6,5.0b
IDC V 04 05 41 46.6–.55 40.86N 141.30E 94–4 4.9,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ28.00000°,λ124.00000°. NP2:ϕ_s189.00000°,δ67.00000°,λ74.00000°. $M_0$1.23000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.0. Recorded [3 JMA] in Aomori and Iwate.
MOS Error ellipse: s-maj=5.6km s-min=3.9km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=155.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s190.00000°,δ71.00000°,λ58.00000°. NP2:ϕ_s72.00000°,δ37.00000°,λ146.00000°. Principal axes: T Plg53.0000°,Azm61.0000°; N Plg30.0000°,Azm201.0000°; P Plg19.0000° ,Azm303.0000°
IDC Error ellipse: s-maj=9.3km s-min=8.2km az=101.0.
ISC V 04 06 59 27.5–2.7 38.74N–.06 142.28E–.08 13–16 3.8b 22 1-73
NIED V 04 06 59 00 38.70N 142.20E 65 3.9W **¶17202732**
IDC V 04 06 59 26.6–2.4 38.91N 142.10E 0 3.7,3.7b
JMA V 04 06 59 30.4–.10 38.67N 142.17E 40–2 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ42.00000°,λ7.00000°. NP2:ϕ_s23.00000°,δ85.00000°,λ132.00000°. $M_0$7.63000×10^{14}
IDC Error ellipse: s-maj=55.8km s-min=26.1km az=142.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 04 07 28 51.4–.10 38.57N 142.40E 36–2 3.7
NIED V 04 07 28 00 38.60N 142.40E 38 3.6W **¶600606390**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ16.00000°,λ68.00000°. NP2:ϕ_s234.00000°,δ75.00000°,λ96.00000°. $M_0$3.00000×10^{14}
ISC V 04 07 48 40.4–2.8 36.51N–.06 141.15E–.08 5–15 3.7b 17 0-60
NIED V 04 07 48 00 36.50N 141.00E 17 3.5W **¶17202735**
IDC V 04 07 48 39.4–2.0 36.52N 141.17E 0 3.7,3.6b
ISCJB V 04 07 48 41.0–1.4 36.47N–.06 141.18E–.08 20–8 3.6b,3.6b
JMA V 04 07 48 43.6–.10 36.53N 141.01E 34–1 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ79.00000°,λ-172.00000°. NP2:ϕ_s218.00000°,δ82.00000°,λ-11.00000°. $M_0$2.24000×10^{14}
IDC Error ellipse: s-maj=45.0km s-min=24.6km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=9.2km az=139.3.
JMA Event type fe.
ISC V 04 08 38 10.4–1.2 36.80N–.04 140.50E–.05 5–9 3.6b 20 0-91
ISCJB V 04 08 38 10.2–.79 36.79N–.04 140.61E–.06 13–5 3.5b **¶17202737**
JMA V 04 08 38 10.5 36.80N 140.55E 8–1 3.5

IDC V 04 08 38 14.0–5.9 36.68N 140.58E 31–45 3.7,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.5km az=36.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s179.00000°,δ55.00000°,λ-75.00000°. NP2:ϕ_s335.00000°,δ38.00000°,λ-110.00000°. Principal axes: T Plg9.0000°,Azm259.0000°; N Plg12.0000°,Azm351.0000°; P Plg75.0000° ,Azm133.0000°
IDC Error ellipse: s-maj=26.2km s-min=21.3km az=121.0.
ISC V 04 08 44 36.5–.95 39.0N–.10 141.4E–.20 51 3.4b 8 4-63
IDC V 04 08 44 30.5–.95 38.82N 142.09E 0 3.7,3.5 **¶17202739**
ISCJB V 04 08 44 34.4–.78 38.92N–.10 141.6E–.30 51 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 04 08 47 08.5–.00 36.80N–.03 140.54E–.04 12–6 3.8b 31 0-91
IDC V 04 08 47 06.6–.65 36.82N 140.65E 0 3.9,3.7 **¶16497633**
ISCJB V 04 08 47 07.7–.58 36.78N–.03 140.66E–.05 19–4 3.6b,3.7
JMA V 04 08 47 08.7 36.80N 140.55E 8–1 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=17.6km s-min=14.8km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=21.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s178.00000°,δ48.00000°,λ-74.00000°. NP2:ϕ_s335.00000°,δ44.00000°,λ-107.00000°. Principal axes: T Plg2.0000°,Azm257.0000°; N Plg12.0000°,Azm347.0000°; P Plg78.0000° ,Azm158.0000°
JMA V 04 08 47 48.0 36.80N 140.55E 7–1 3.7
¶602919024
ISC V 04 09 15 15.8–3.2 37.63N–.05 142.0E–.10 1–17 3.6b 23 1-61
IDC V 04 09 15 14.5–1.8 37.82N 142.26E 0 3.6,3.6b **¶17202740**
JMA V 04 09 15 20.4–.10 37.65N 141.78E 35–3 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=43.8km s-min=23.1km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 04 10 57 27.1–1.9 36.88N–.05 141.97E–.06 7–11 3.7b 37 1-64
NIED V 04 10 57 00 36.90N 141.90E 23 3.8W **¶17202745**
IDC V 04 10 57 26.8–.84 36.80N 142.12E 0 3.9,3.9
ISCJB V 04 10 57 27.5–1.1 36.85N–.04 142.00E–.05 19–7 3.6b,3.9
JMA V 04 10 57 29.8–.30 36.95N 141.92E 45–5 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ49.00000°,λ150.00000°. NP2:ϕ_s303.00000°,δ68.00000°,λ46.00000°. $M_0$6.47000×10^{14}
IDC Error ellipse: s-maj=24.6km s-min=14.8km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.0km az=8.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 04 11 02 25.2–1.4 39.47N–.04 142.54E–.05 18–5 3.6b 39 1-73
NIED V 04 11 02 00 39.40N 142.60E 38 3.7W **¶17202747**
JMA V 04 11 02 26.4–.10 39.43N 142.56E 34–1 4.0
IDC V 04 11 02 29.3–1.9 39.41N 142.56E 56–18 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ7.00000°,λ83.00000°. NP2:ϕ_s12.00000°,δ83.00000°,λ91.00000°. $M_0$4.14000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=10.8km az=103.0.
JMA V 04 11 23 44.8–.20 38.58N 142.47E 27–3 3.5
NIED V 04 11 23 00 38.60N 142.50E 29 3.7W **¶600606496**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s290.00000°,δ36.00000°,λ-95.00000°. NP2:ϕ_s116.00000°,δ54.00000°,λ-86.00000°. $M_0$3.54000×10^{14}
ISC V 04 11 43 17.3–.38 36.30N–.03 141.33E–.04 27–2 4.4b,4.0s 165 1-147
NIED V 04 11 43 00 36.30N 141.20E 38 4.3W,4.0s **¶16497656**
MOS V 04 11 43 16.4–1.4 36.39N 141.38E 33 4.4b,4.0s
ISCJB V 04 11 43 16.1–.65 36.30N–.02 141.28E–.04 28–4 4.4b,3.9s
JMA V 04 11 43 17.5–.10 36.31N 141.17E 47–2 4.2,3.9s
NEIC V 04 11 43 18.9–.21 36.26N 141.19E 35 4.7b,3.9s
IDC V 04 11 43 19.0–.43 36.26N 141.19E 36–3 4.3,4.3L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ11.00000°,λ-44.00000°. NP2:ϕ_s332.00000°,δ82.00000°,λ-98.00000°. $M_0$2.83000×10^{15}
MOS Error ellipse: s-maj=9.0km s-min=5.8km az=92.2.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.7km az=12.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=132.0. Recorded [2 JMA] in Ibaraki.
IDC Error ellipse: s-maj=11.4km s-min=9.3km az=98.0.
JMA V 04 11 45 31.9–.10 38.12N 141.97E 17–1 3.6
¶600606507
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 04 13 17 05.1–.95 35.91N–.05 141.08E–.08 31 3.7b 17 0-60
ISCJB V 04 13 17 03.4–.82 35.91N–.05 141.14E–.09 31 3.6b **¶17202757**
IDC V 04 13 17 06.6–2.4 35.89N 141.01E 43–20 3.7,3.7L
JMA V 04 13 17 07.9–.10 35.89N 140.81E 39–1 3.1,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.6km az=154.5.
IDC Error ellipse: s-maj=34.5km s-min=13.1km az=86.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 04 13 18 49.4–.74 38.91N–.04 142.03E–.06 44–5 4.5b,3.9s 120 0-89
NIED V 04 13 18 00 38.90N 141.90E 53 4.3W,3.9s **¶16577983**
MOS V 04 13 18 46.7–1.3 38.89N 142.01E 33 4.6b,3.9s
ISCJB V 04 13 18 48.7–.48 38.92N–.03 142.03E–.05 56–3 4.3b,3.9s
JMA V 04 13 18 49.9 38.88N 141.99E 49–1 4.2,3.9s
IDC V 04 13 18 51.6–2.0 38.88N 141.88E 64–17 4.2,4.0
NEIC V 04 13 18 51.2–.61 38.88N 142.00E 62–5 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ61.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ100.00000°. $M_0$2.76000×10^{15}
MOS Error ellipse: s-maj=7.8km s-min=5.3km az=96.4.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=30.1.
JMA Event type fe.
IDC Error ellipse: s-maj=17.6km s-min=12.3km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.9km az=115.0. Recorded [2 JMA] in Iwate and Miyagi.
ISC V 04 14 45 19.3–1.9 37.27N–.05 141.81E–.07 13–11 3.7b 23 1-57
NIED V 04 14 45 00 37.30N 141.60E 53 3.8W **¶17202764**
IDC V 04 14 45 23.0–1.8 37.25N 141.71E 45–19 3.8,3.6
JMA V 04 14 45 23.0–.10 37.31N 141.58E 44–2 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ32.00000°,λ157.00000°. NP2:ϕ_s43.00000°,δ78.00000°,λ60.00000°. $M_0$4.83000×10^{14}
IDC Error ellipse: s-maj=32.3km s-min=11.8km az=98.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 04 15 09 03.1–1.1 36.81N–.03 140.43E–.03 4–7 4.1b 54 0-152
NIED V 04 15 09 00 36.80N 140.60E 5 3.9W **¶16497681**
ISCJB V 04 15 09 03.8–.52 36.80N–.03 140.62E–.04 20–3 4.0b,3.5s
JMA V 04 15 09 04.2 36.80N 140.55E 7–1 4.1,3.5s
IDC V 04 15 09 08.5–2.2 36.80N 140.34E 41–21 4.0,4.0
NEIC V 04 15 09 08.3–.82 36.81N 140.45E 42–7 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ31.00000°,λ-117.00000°. NP2:ϕ_s185.00000°,δ63.00000°,λ-75.00000°. $M_0$9.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=30.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ49.00000°,λ-73.00000°. NP2:ϕ_s340.00000°,δ44.00000°,λ-109.00000°. Principal axes: T Plg3.0000°,Azm263.0000°; N Plg13.0000°,Azm354.0000°; P Plg77.0000° ,Azm161.0000°
IDC Error ellipse: s-maj=17.5km s-min=14.4km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=7.4km az=121.0. Recorded [3 JMA] in Ibaraki.
ISC V 04 16 29 01.0–1.7 37.85N–.04 141.93E–.06 11–9 4.2b,3.6s 67 1-92
IDC V 04 16 28 59.5–.75 37.89N 142.06E 0 3.8,3.8L **¶16497693**
NIED V 04 16 29 00 37.80N 141.90E 32 3.9W,3.8L
ISCJB V 04 16 29 01.7–.87 37.82N–.03 141.93E–.05 26–5 4.2b,3.8s
JMA V 04 16 29 03.6–.10 37.84N 141.81E 31–2 4.2,3.8s
NEIC V 04 16 29 05.3–.81 37.83N 141.94E 46–7 4.5b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.0km az=112.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ67.00000°,λ179.00000°. NP2:ϕ_s9.00000°,δ89.00000°,λ23.00000°. $M_0$9.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.3km s-min=6.7km az=123.0. Recorded [2 JMA] in Fukushima.
ISC V 04 17 36 13.7–2.1 38.21N–.05 142.37E–.07 15–11 3.8b 31 1-73
NIED V 04 17 36 00 38.20N 142.20E 32 3.7W **¶17202773**
JMA V 04 17 36 16.6–.20 38.24N 142.22E 38–2 4.2
IDC V 04 17 36 17.5–2.7 38.16N 142.42E 42–23 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ33.00000°,λ-51.00000°. NP2:ϕ_s36.00000°,δ65.00000°,λ-112.00000°. $M_0$3.35000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=35.6km s-min=26.1km az=123.0.
ISC V 04 19 13 47.0–2.0 36.58N–.05 141.36E–.10 27–12 3.7b 24 1-75
NIED V 04 19 13 00 36.60N 141.20E 44 3.8W **¶17202785**
ISCJB V 04 19 13 47.1–1.0 36.59N–.04 141.36E–.09 42–9 3.6b,2.8s
JMA V 04 19 13 48.4–.10 36.58N 141.22E 46–2 3.7,2.8s
IDC V 04 19 13 49.1–2.7 36.57N 141.43E 49–21 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ9.00000°,λ51.00000°. NP2:ϕ_s350.00000°,δ83.00000°,λ96.00000°. $M_0$5.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.1km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=39.3km s-min=13.6km az=87.0.
ISC V 04 19 26 46.6–1.9 36.20N–.07 141.8E–.10 29 3.4b 15 1-60
IDC V 04 19 26 34.0–4.7 34.23N 141.71E 0 3.4,3.4b **¶17202787**
JMA V 04 19 26 43.4–.40 36.16N 142.03E 54 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=172.3km s-min=25.2km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC V 04 20 43 30.2–2.1 39.21N–.04 142.30E–.10 16–10 3.6b 20 1-67
ISCJB V 04 20 43 29.5–1.4 39.19N–.04 142.37E–.10 25–7 3.4b **¶17202793**
JMA V 04 20 43 29.7–.10 39.21N 142.38E 33–1 3.3
IDC V 04 20 43 38.1–4.7 39.57N 141.39E 36–38 3.2,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.4km az=13.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.7km s-min=21.7km az=96.0.
JMA V 04 20 53 12.1–.10 37.11N 141.37E 45–1 3.5
NIED V 04 20 53 00 37.10N 141.40E 35 3.6W **¶600606797**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ30.00000°,λ135.00000°. NP2:ϕ_s306.00000°,δ69.00000°,λ68.00000°. $M_0$2.72000×10^{14}
ISC V 04 21 04 55.5–2.9 38.10N–.07 143.0E–.10 2–14 3.9b 20 1-58
NIED V 04 21 04 00 38.10N 143.10E 8 3.6W **¶17202794**
IDC V 04 21 04 46.8–1.4 38.81N 145.39E 0 3.7,3.6b
JMA V 04 21 04 55.7–.30 38.12N 143.08E 20–5 3.6,3.6b
ISCJB V 04 21 04 56.2–2.2 38.07N–.07 143.03E–.09 18–15 3.7b,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ35.00000°,λ-127.00000°. NP2:ϕ_s203.00000°,δ63.00000°,λ-67.00000°. $M_0$2.42000×10^{14}
ISCJB Event type ke.
ISC V 04 21 06 28.5–.71 35.64N–.05 141.56E–.06 25 3.7b 26 1-147
ISCJB V 04 21 06 26.9–.57 35.68N–.06 141.66E–.06 25 3.7b **¶17202795**
JMA V 04 21 06 29.5–.40 35.70N 141.51E 43–3 3.3
IDC V 04 21 06 29.9–4.9 35.63N 141.58E 32–36 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.0km az=174.9.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=21.5km s-min=17.0km az=74.0.
ISC V 04 21 13 44.3–.65 38.17N–.04 141.80E–.07 45–4 3.9b 51 0-89
NIED V 04 21 13 00 38.20N 141.70E 53 3.8W **¶16577994**
ISCJB V 04 21 13 43.7–.73 38.16N–.04 141.77E–.08 55–5 3.9b
JMA V 04 21 13 45.0–.10 38.18N 141.68E 51–1 3.9
IDC V 04 21 13 46.9–.70 38.17N 141.76E 68–5 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ17.00000°,λ75.00000°. NP2:ϕ_s24.00000°,δ73.00000°,λ95.00000°. $M_0$6.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=4.6km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.5km az=96.0.
ISC V 04 21 53 24.6–.77 37.71N–.04 141.66E–.08 57–7 3.6b 37 1-90
NIED V 04 21 53 00 37.70N 141.60E 71 3.9W **¶600606834**
ISCJB V 04 21 53 23.1–.75 37.71N–.04 141.68E–.09 61–6 3.7b
JMA V 04 21 53 24.4 37.72N 141.60E 56–1 4.0
IDC V 04 21 53 25.1–.77 37.70N 141.57E 62–7 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ33.00000°,λ71.00000°. NP2:ϕ_s51.00000°,δ59.00000°,λ102.00000°. $M_0$6.75000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.6km az=19.3.
JMA Event type fe.
IDC Error ellipse: s-maj=19.3km s-min=13.6km az=112.0.
JMA V 05 00 34 06.2–.10 37.34N 141.23E 33–1 3.2
¶603742741
ISC V 05 03 54 59.7–1.6 36.88N–.04 141.33E–.09 30–10 3.6b 26 0-57
IDC V 05 03 54 55.9–1.2 37.03N 141.25E 0 3.7,3.6 **¶17202814**
ISCJB V 05 03 54 59.4–.86 36.86N–.04 141.33E–.08 46–8 3.6b,3.6
NIED V 05 03 55 00 36.90N 141.20E 47 3.6W,3.6
JMA V 05 03 55 01.3–.10 36.87N 141.16E 48–1 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=19.8km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.0km az=12.8.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ11.00000°,λ143.00000°. NP2:ϕ_s48.00000°,δ83.00000°,λ81.00000°. $M_0$3.20000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 05 04 03 08.2–.10 37.82N 141.84E 29–3 4.0
¶600607058
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 05 04 28 54.4–.68 35.88N–.05 140.93E–.09 46–6 3.9b 30 0-148
NIED V 05 04 28 00 35.90N 140.80E 41 4.1W **¶16577999**
ISCJB V 05 04 28 52.8–.69 35.89N–.04 141.0E–.10 51–5 3.8b,3.6s
JMA V 05 04 28 54.9–.10 35.90N 140.82E 39–1 3.6,3.6s
IDC V 05 04 28 54.8–.68 35.86N 140.92E 51–6 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ17.00000°,λ144.00000°. NP2:ϕ_s11.00000°,δ80.00000°,λ76.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=6.9km az=174.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=8.6km az=102.0.
ISC V 05 05 06 42.5–.54 35.68N–.04 140.77E–.05 43–4 4.2b,3.6s 107 0-148
NIED V 05 05 06 00 35.70N 140.70E 50 4.3W,3.6s **¶600607084**
JMA V 05 05 06 41.9–.10 35.69N 140.75E 45–1 3.7,3.6s
NEIC V 05 05 06 41.4–.79 35.64N 140.83E 37–7 4.6b,3.6s
IDC V 05 05 06 41.8–.82 35.66N 140.74E 39–6 4.1,4.0
ISCJB V 05 05 06 41.6–.39 35.68N–.03 140.76E–.05 52–3 4.2b,3.3s
MOS V 05 05 06 42.9–1.3 36.21N 140.70E 33 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ25.00000°,λ11.00000°. NP2:ϕ_s1.00000°,δ85.00000°,λ114.00000°. $M_0$3.08000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.9km az=119.0. Recorded [2 JMA] in Chiba.
IDC Error ellipse: s-maj=16.4km s-min=13.7km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.0km az=177.6.
MOS Error ellipse: s-maj=10.1km s-min=7.3km az=114.0.
ISC V 05 05 46 30.9–2.1 39.01N–.04 142.48E–.08 6–12 3.7b 25 1-59

NIED V 05 05 46 00 39.00N 142.40E 44 3.5W ¶17202821
IDC V 05 05 46 29.9–1.4 38.90N 142.69E 0 3.7,3.5b
ISCJB V 05 05 46 32.7–1.3 39.01N–.04 142.50E–.08 23–7 3.5b,3.5b
JMA V 05 05 46 34.5–.10 39.04N 142.40E 31–2 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ29.00000°,λ-80.00000°. NP2:ϕ_s206.00000°,δ61.00000°,λ-95.00000°. $M_0$2.27000×10^{14}
IDC Error ellipse: s-maj=39.7km s-min=28.3km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.8km az=14.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 05 07 09 22.5–2.5 37.70N–.06 141.9E–.10 26–13 19 1-58
NIED V 05 07 09 00 37.70N 141.80E 56 3.7W ¶17202826
IDC V 05 07 09 07.0–3.0 37.12N 143.30E 0 3.8,3.6
JMA V 05 07 09 24.5–.10 37.72N 141.77E 44–2 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ16.00000°,λ47.00000°. NP2:ϕ_s193.00000°,δ79.00000°,λ101.00000°. $M_0$3.46000×10^{14}
IDC Error ellipse: s-maj=74.8km s-min=30.2km az=58.0.
ISC V 05 07 24 31.2–1.9 37.29N–.06 141.96E–.09 34–5 3.6b 20 1-61
IDC V 05 07 24 22.4–2.4 37.91N 142.84E 0 3.6,3.5b ¶17202828
JMA V 05 07 24 35.5–.20 37.35N 141.82E 38–4 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=26.6km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 05 08 57 30.0–1.6 39.17N–.05 142.29E–.08 32–10 3.7b 23 0-62
NIED V 05 08 57 00 39.20N 142.40E 32 3.7W ¶17202831
ISCJB V 05 08 57 27.9–1.5 39.17N–.04 142.44E–.10 28–8 3.5b
JMA V 05 08 57 28.8–.10 39.20N 142.40E 35–1 3.9
IDC V 05 08 57 33.2–3.1 39.16N 142.36E 69–30 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ31.00000°,λ-114.00000°. NP2:ϕ_s167.00000°,δ62.00000°,λ-77.00000°. $M_0$3.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.3km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=39.7km s-min=16.4km az=111.0.
ISC V 05 09 20 12.6–1.9 39.09N–.04 142.42E–.07 15–10 3.9b 37 1-88
NIED V 05 09 20 00 39.10N 142.50E 32 4.1W ¶17202833
JMA V 05 09 20 13.5–.10 39.14N 142.42E 34–1 4.1
IDC V 05 09 20 16.7–2.0 39.06N 142.39E 52–19 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ30.00000°,λ-135.00000°. NP2:ϕ_s186.00000°,δ70.00000°,λ-68.00000°. $M_0$1.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.7km s-min=11.4km az=108.0.
ISC V 05 10 03 42.9–1.8 40.31N–.04 142.47E–.09 31–13 3.7b 20 1-60
ISCJB V 05 10 03 42.5–1.4 40.29N–.06 142.53E–.09 29–8 3.7b ¶600607199
JMA V 05 10 03 43.8–.10 40.27N 142.46E 32–2 3.3
IDC V 05 10 03 47.3–2.0 40.83N 141.06E 0 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=10.0km az=178.5.
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=49.3km s-min=26.4km az=88.0.
ISC V 05 10 20 48.3–.86 36.82N–.03 140.67E–.04 11–5 4.6b,3.7s 298 0-147
NIED V 05 10 20 00 36.80N 140.70E 5 4.4W,3.7s ¶16497733
IDC V 05 10 20 46.1–.48 36.76N 140.64E 0 4.5,4.4
ISCJB V 05 10 20 47.0–.47 36.84N–.02 140.61E–.02 9–2 4.5b,3.8s
JMA V 05 10 20 47.4 36.85N 140.58E 8–1 4.5,3.8s
NEIC V 05 10 20 50.6–1.2 36.79N 140.58E 25–8 4.7b,3.8s
MOS V 05 10 20 51.0–1.1 37.00N 140.54E 33 4.7b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ19.00000°,λ-128.00000°. NP2:ϕ_s199.00000°,δ75.00000°,λ-78.00000°. $M_0$4.04000×10^{15}
IDC Error ellipse: s-maj=12.3km s-min=11.0km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=144.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ65.00000°,λ-72.00000°. NP2:ϕ_s343.00000°,δ31.00000°,λ-124.00000°. Principal axes: T Plg18.0000°,Azm278.0000°; N Plg17.0000°,Azm14.0000°; P Plg65.0000° ,Azm143.0000°
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=143.0. Recorded [3 JMA] in Fukushima and Ibaraki.
MOS Error ellipse: s-maj=7.5km s-min=5.2km az=89.4.
ISC V 05 10 22 00.8–1.8 36.95N–.05 141.55E–.07 10–10 4.3b 56 1-147
ISCJB V 05 10 21 60.0–1.2 36.93N–.03 141.62E–.07 20–7 4.3b,3.6s ¶16578002
IDC V 05 10 21 59.3–.63 36.94N 141.50E 0 4.3,4.2
NIED V 05 10 22 00 37.00N 141.50E 8 4.2W,4.2
JMA V 05 10 22 01.9–.20 36.99N 141.53E 40–2 4.4,4.2
NEIC V 05 10 22 02.2–2.2 36.89N 141.52E 20–14 4.3b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.5km az=13.5.
IDC Error ellipse: s-maj=16.5km s-min=14.5km az=106.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ42.00000°,λ-82.00000°. NP2:ϕ_s23.00000°,δ48.00000°,λ-97.00000°. $M_0$2.27000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.8km az=126.0.
ISC V 05 10 45 15.2–2.0 36.99N–.04 141.64E–.08 7–11 3.6b 23 1-61
NIED V 05 10 45 00 37.00N 141.50E 8 3.6W ¶17202840
IDC V 05 10 45 14.3–1.1 36.85N 141.71E 0 3.7,3.5b
ISCJB V 05 10 45 15.7–1.2 36.95N–.04 141.64E–.07 21–8 3.5b,3.5b
JMA V 05 10 45 17.6–.20 36.98N 141.51E 41–2 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ41.00000°,λ-109.00000°. NP2:ϕ_s41.00000°,δ52.00000°,λ-74.00000°. $M_0$2.56000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=22.6km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.1km az=15.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 05 11 02 10.5–1.1 36.94N–.04 141.28E–.07 41–10 3.8b 37 0-90
NIED V 05 11 02 00 37.00N 141.10E 50 3.9W ¶17202841
ISCJB V 05 11 02 09.2–.72 36.96N–.04 141.30E–.07 50–5 3.7b
JMA V 05 11 02 11.7–.10 36.96N 141.07E 51–1 3.9
IDC V 05 11 02 14.0–2.0 36.90N 141.12E 77–20 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ11.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ79.00000°,λ93.00000°. $M_0$6.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.6km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.5km s-min=11.1km az=71.0.
ISC V 05 13 10 20.8–1.9 36.73N–.05 141.14E–.08 12–10 3.4b 22 0-64
ISCJB V 05 13 10 18.9–1.2 36.71N–.04 141.25E–.06 9–6 3.3b ¶17202849
IDC V 05 13 10 18.7–1.2 36.89N 141.24E 0 3.5,3.3
JMA V 05 13 10 22.6 36.76N 141.01E 18–1 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.7km az=17.9.
IDC Error ellipse: s-maj=28.1km s-min=23.6km az=56.0.
ISC V 05 13 23 39.4–1.2 38.88N–.05 142.01E–.09 49–9 3.7b 32 0-73
NIED V 05 13 23 00 38.90N 142.00E 47 3.8W ¶17202851
ISCJB V 05 13 23 38.3–.83 38.88N–.04 142.02E–.10 57–6 3.9s,3.7b
JMA V 05 13 23 39.4–.10 38.88N 141.99E 50–1 3.9,3.7b
IDC V 05 13 23 40.8–2.3 38.89N 142.00E 66–20 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ30.00000°,λ50.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ110.00000°. $M_0$5.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.2km az=15.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=13.9km az=106.0.
ISC V 05 13 50 58.0–1.1 36.06N–.05 141.12E–.08 31 17 0-56
IDC V 05 13 50 52.7–1.9 36.01N 141.51E 0 3.4,3.4 ¶17202853
ISCJB V 05 13 50 56.7–.78 36.06N–.04 141.17E–.08 31 3.2b,3.4
JMA V 05 13 50 57.4–.10 36.01N 141.12E 38–2 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=42.5km s-min=21.9km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.9km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 05 14 06 37.8–.10 37.63N 141.64E 47–2 3.5 ¶600607313
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 05 14 33 10.2–1.6 37.11N–.05 141.43E–.07 19–5 3.6b 19 1-57
ISCJB V 05 14 33 09.8–1.5 37.17N–.06 141.48E–.10 24–8 3.9s,3.5b ¶17202855
IDC V 05 14 33 13.1–2.2 37.01N 141.55E 49–21 4.0,4.0s
JMA V 05 14 33 14.2–.10 37.18N 141.12E 33–1 3.9,4.0s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=8.1km az=25.9.
IDC Error ellipse: s-maj=27.5km s-min=19.5km az=92.0.
JMA Event type fe.
ISC V 05 15 26 43.4–1.5 37.43N–.04 141.56E–.05 8–9 4.0b 50 1-74
IDC V 05 15 26 41.8–.87 37.34N 141.55E 0 3.9,3.8b ¶16708927
ISCJB V 05 15 26 42.8–1.1 37.38N–.03 141.63E–.07 19–7 4.2b,3.8b
JMA V 05 15 26 42.9–.20 37.39N 141.61E 23–2 3.7,3.8b
NEIC V 05 15 26 46.7–1.9 37.43N 141.45E 30–14 5.0b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=18.0km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.5km az=15.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.9km az=110.0.
ISC V 05 15 48 21.4–2.9 38.24N–.05 142.22E–.09 16–16 3.6b 22 1-62
ISCJB V 05 15 48 21.8–1.5 38.32N–.05 142.28E–.08 29–8 3.4b ¶17202863
JMA V 05 15 48 23.7–.20 38.36N 142.19E 31–2 3.9
IDC V 05 15 48 26.2–3.0 38.39N 142.45E 57–29 3.4,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=6.9km az=26.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=39.1km s-min=18.1km az=93.0.
JMA V 05 16 59 27.2 36.92N 140.69E 7–1 2.7 ¶600607390
JMA V 05 18 00 42.1–.30 38.16N 142.63E 28 3.5 ¶600607423
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 05 18 06 48.4–.95 36.72N–.03 140.60E–.05 9–7 3.8b 23 0-60
IDC V 05 18 06 46.9–1.4 36.76N 140.67E 0 3.7,3.7 ¶16497761
ISCJB V 05 18 06 47.2–.80 36.68N–.03 140.74E–.06 12–4 3.5b,3.7
JMA V 05 18 06 48.4 36.72N 140.61E 7–1 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.6km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.7km az=21.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s337.00000°,δ60.00000°,λ-80.00000°. NP2:ϕ_s138.00000°,δ32.00000°,λ-107.00000°. Principal axes: T Plg14.0000°,Azm60.0000°; N Plg9.0000°,Azm152.0000°; P Plg73.0000° ,Azm273.0000°
ISC V 05 18 18 52.2–3.4 38.00N–.06 142.67E–.06 31–24 4.0b 81 1-150
IDC V 05 18 18 47.4–.54 37.89N 142.58E 0 4.1,4.0 ¶16708952
ISCJB V 05 18 18 50.6–.71 37.95N–.04 142.69E–.05 34–6 4.1b,4.0
MOS V 05 18 18 50.7–1.1 37.99N 142.66E 33 4.3b,4.0
NEIC V 05 18 18 51.8–2.1 37.94N 142.66E 29–14 4.7b,4.0
JMA V 05 18 18 52.1–.20 37.98N 142.58E 40–4 4.2,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=12.7km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=34.2.
MOS Error ellipse: s-maj=11.7km s-min=7.0km az=83.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=5.9km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 05 19 11 21.1–2.1 39.09N–.05 142.4E–.20 20–11 19 1-59
IDC V 05 19 11 15.6–3.0 39.41N 143.07E 0 3.3,3.2b ¶17202876
ISCJB V 05 19 11 20.6–1.6 39.10N–.04 142.5E–.10 21–9 3.1b,3.2b
JMA V 05 19 11 22.8–.10 39.14N 142.35E 28–1 3.0,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=71.0km s-min=36.4km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.5km az=0.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 05 21 55 24.4–1.5 37.39N–.04 141.34E–.07 24–11 3.6b 27 0-57
NIED V 05 21 55 00 37.40N 141.30E 47 3.8W ¶17202879
IDC V 05 21 55 21.1–1.2 37.43N 141.36E 0 3.6,3.6
ISCJB V 05 21 55 24.2–.88 37.36N–.03 141.41E–.08 38–9 3.5b,3.6
JMA V 05 21 55 25.9–.10 37.40N 141.29E 34–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ31.00000°,λ-108.00000°. NP2:ϕ_s196.00000°,δ61.00000°,λ-80.00000°. $M_0$6.02000×10^{14}
IDC Error ellipse: s-maj=26.3km s-min=20.0km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.4km az=12.7.
JMA Event type fe.
ISC V 05 22 20 02.1–.76 39.11N–.05 143.0E–.10 38–2 4.0b,3.4s 64 1-82
NIED V 05 22 19 00 39.10N 142.90E 23 4.0W,3.4s ¶16578013
JMA V 05 22 19 59.6–.20 39.13N 142.95E 21–2 3.9,3.4s
ISCJB V 05 22 20 00.6–.80 39.12N–.03 143.00E–.07 40–6 4.0b,3.5s
NEIC V 05 22 20 03.6–.94 39.18N 143.01E 49–7 4.3b,3.5s
IDC V 05 22 20 03.3–2.0 39.18N 142.92E 45–17 3.9,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ16.00000°,λ61.00000°. NP2:ϕ_s28.00000°,δ76.00000°,λ98.00000°. $M_0$1.20000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.8km az=21.3.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=6.8km az=121.0.
IDC Error ellipse: s-maj=20.5km s-min=13.0km az=102.0.
ISC V 05 22 46 49.1–1.4 36.56N–.03 141.87E–.04 15–8 4.6b,3.5s 210 1-147
NIED V 05 22 46 00 36.60N 141.80E 26 4.3W,3.5s ¶16501727
IDC V 05 22 46 47.1–.52 36.53N 141.68E 0 4.3,4.3
ISCJB V 05 22 46 48.2–.88 36.52N–.02 141.94E–.03 23–5 4.5b,3.6s
JMA V 05 22 46 50.6–.20 36.57N 141.82E 44 4.1,3.6s
NEIC V 05 22 46 52.0–.53 36.55N 141.83E 37–4 4.8b,3.6s
MOS V 05 22 46 52.4–.85 36.88N 141.59E 33 4.7b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ31.00000°,λ-70.00000°. NP2:ϕ_s342.00000°,δ62.00000°,λ-101.00000°. $M_0$3.18000×10^{15}
IDC Error ellipse: s-maj=15.9km s-min=11.3km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.8km az=19.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=111.0. Recorded [2 JMA] in Fukushima and Ibaraki.
MOS Error ellipse: s-maj=11.4km s-min=6.3km az=112.2.
JMA V 06 00 01 53.3 36.93N 140.69E 9–1 2.6 ¶600607586
JMA V 06 00 15 04.8–.10 35.49N 140.96E 24–1 3.5 ¶600607592
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 06 04 22 51.6–.10 38.61N 142.07E 35–1 3.6
NIED V 06 04 22 00 38.60N 142.10E 68 3.9W ¶600607742
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ20.00000°,λ61.00000°. NP2:ϕ_s173.00000°,δ73.00000°,λ100.00000°. $M_0$7.50000×10^{14}
ISC V 06 05 14 56.9–.46 39.03N–.03 142.28E–.04 41–3 4.8b,4.2s 463 0-147
NIED V 06 05 14 00 39.10N 142.20E 47 4.7W,4.2s ¶16497786
JMA V 06 05 14 56.9–.10 39.08N 142.23E 44–1 4.7,4.2s
ISCJB V 06 05 14 57.3–.34 39.09N–.02 142.12E–.03 53–2 4.8b,4.1s
MOS V 06 05 14 58.1–.97 39.16N 142.10E 59 5.1b,4.1s
NEIC V 06 05 14 59.8–.41 39.09N 142.08E 59–3 4.8b,4.1s
IDC V 06 05 14 59.2–1.7 39.03N 142.12E 60–15 4.6,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ21.00000°,λ28.00000°. NP2:ϕ_s46.00000°,δ80.00000°,λ108.00000°. $M_0$1.32000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=139.0.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=142.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=13.9km s-min=10.6km az=91.0.

JMA V 06 05 51 39.7 36.85N 140.59E 7–1 2.6 ¶600607767
ISC V 06 06 29 05.9–1.9 37.91N–.05 141.95E–.09 31–13 3.5b 24 1-89
NIED V 06 06 29 00 37.90N 141.90E 35 3.8W **¶17202906**
JMA V 06 06 29 06.9–.10 37.91N 141.94E 38–2 3.8
IDC V 06 06 29 09.8–4.6 37.99N 141.78E 68–44 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ21.00000°,λ159.00000°. NP2:ϕ_s335.00000°,δ82.00000°,λ70.00000°. $M_0$6.21000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=39.2km s-min=19.7km az=104.0.
ISC V 06 06 43 53.3–1.4 38.36N–.06 142.13E–.10 22–8 3.6b 23 1-62
NIED V 06 06 43 00 38.40N 142.20E 35 3.8W **¶17202907**
ISCJB V 06 06 43 54.0–1.2 38.38N–.05 142.2E–.10 42–10 3.6b
JMA V 06 06 43 53.9–.10 38.41N 142.20E 36–1 4.2
IDC V 06 06 43 58.1–3.6 38.43N 142.16E 63–26 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ31.00000°,λ-157.00000°. NP2:ϕ_s253.00000°,δ79.00000°,λ-61.000000°. $M_0$5.55000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=6.9km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=47.9km s-min=23.9km az=146.0.
ISC V 06 07 56 11.4–.92 38.29N–.05 141.85E–.06 46–8 4.1b 81 0-146
NIED V 06 07 56 00 38.30N 141.80E 56 4.0W **¶16497788**
MOS V 06 07 56 09.2–1.6 38.41N 141.79E 33 4.3b
ISCJB V 06 07 56 10.4–.49 38.31N–.03 141.86E–.06 57–4 4.2b,3.4s
JMA V 06 07 56 12.5–.10 38.34N 141.73E 51–1 4.1,3.4s
IDC V 06 07 56 14.3–2.1 38.33N 141.53E 69–19 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ29.00000°,λ124.00000°. NP2:ϕ_s34.00000°,δ67.00000°,λ73.00000°. $M_0$1.32000×10^{15}
MOS Error ellipse: s-maj=10.3km s-min=6.4km az=81.1.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.8km az=23.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.2km s-min=13.0km az=89.0.
JMA V 06 08 29 24.6–.10 40.02N 142.32E 47–2 2.0 ¶600607822
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 06 08 30 52.2–1.2 39.72N–.05 142.2E–.10 46–9 3.6b 28 0-73
NIED V 06 08 30 00 39.70N 142.20E 44 3.8W **¶600607823**
ISCJB V 06 08 30 51.0–.81 39.73N–.05 142.3E–.10 51–6 3.6b
JMA V 06 08 30 52.3–.10 39.73N 142.23E 44–1 3.9
IDC V 06 08 30 54.5–2.3 39.75N 142.27E 70–20 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ22.00000°,λ80.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ94.00000°. $M_0$5.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.0km s-min=6.3km az=19.2.
JMA Event type fe.
IDC Error ellipse: s-maj=20.9km s-min=13.1km az=113.0.
ISC V 06 11 26 18.7–1.9 38.14N–.05 141.86E–.09 37–3 24 1-58
NIED V 06 11 26 00 38.20N 141.70E 59 3.7W **¶17202918**
IDC V 06 11 26 12.9–2.0 38.12N 142.09E 0 3.6,3.6b
ISCJB V 06 11 26 18.4–1.1 38.16N–.05 141.8E–.10 50–10 3.6b,3.6b
JMA V 06 11 26 19.7–.10 38.17N 141.71E 50–1 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ35.00000°,λ53.00000°. NP2:ϕ_s14.00000°,δ62.00000°,λ113.00000°. $M_0$4.15000×10^{14}
IDC Error ellipse: s-maj=49.4km s-min=29.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=5.8km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 06 12 17 29.0–1.8 35.54N–.05 141.1E–.10 29–11 3.5b 19 0-84
IDC V 06 12 17 22.7–4.8 35.71N 141.65E 0 3.7b,3.6 **¶17202920**
ISCJB V 06 12 17 28.9–1.2 35.55N–.04 141.1E–.10 38–8 3.5b,3.2s
JMA V 06 12 17 29.3–.10 35.56N 141.03E 36–1 3.1,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=88.7km s-min=36.6km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=7.2km az=174.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 06 14 14 33.0–.72 38.14N–.05 142.47E–.06 14 3.7b 25 1-89
NIED V 06 14 14 00 38.20N 142.50E 44 4.0W **¶17202929**
ISCJB V 06 14 14 32.0–.56 38.13N–.05 142.60E–.06 14 3.7b,2.7s
JMA V 06 14 14 35.3–.20 38.19N 142.46E 38–3 3.9,2.7s
IDC V 06 14 14 38.1–2.7 38.16N 142.49E 50–25 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ28.00000°,λ-70.00000°. NP2:ϕ_s318.00000°,δ64.00000°,λ-100.00000°. $M_0$1.17000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.4km az=22.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.7km s-min=14.1km az=100.0.
ISC V 06 14 15 16.7–1.2 36.93N–.03 140.69E–.04 6–8 3.6b 23 0-147
NIED V 06 14 15 00 36.90N 140.70E 8 3.8W **¶17202932**
IDC V 06 14 15 15.4–.93 36.82N 140.75E 0 4.0,3.8L
ISCJB V 06 14 15 16.1–.74 36.91N–.03 140.73E–.06 14–5 3.6b,3.8L
JMA V 06 14 15 16.7 36.94N 140.65E 7–1 3.8,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ18.00000°,λ-102.00000°. NP2:ϕ_s153.00000°,δ73.00000°,λ-86.000000°. $M_0$5.39000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=21.5km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.6km az=23.1.
JMA Event type fe.
JMA V 06 16 30 47.0 38.25N 141.78E 57–1 3.6
NIED V 06 16 30 00 38.30N 141.80E 29 3.5W **¶600608232**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ68.00000°,λ1.00000°. NP2:ϕ_s242.00000°,δ89.00000°,λ158.00000°. $M_0$1.83000×10^{14}
ISC V 06 17 03 11.6–1.1 36.00N–.05 141.13E–.10 26 15 0-60
IDC V 06 17 03 08.2–1.8 35.94N 141.32E 0 3.7,3.6 **¶17202939**
ISCJB V 06 17 03 09.3–.91 35.96N–.04 141.35E–.09 26 3.7s,3.5b
JMA V 06 17 03 12.0–.10 35.91N 141.12E 32–2 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=24.2km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.3km az=171.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 06 18 00 37.9 36.84N 140.59E 8–1 2.5 ¶600608275
JMA V 06 19 45 11.3–.40 36.49N 141.95E 29 3.1 ¶600608350
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 06 22 29 40.4–.20 38.92N 142.47E 30–3 3.5 ¶600608476
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 06 22 41 12.7–1.6 36.68N–.04 141.38E–.06 18–6 4.0b,3.5s 36 1-90
NIED V 06 22 41 00 36.70N 141.30E 41 3.7W,3.5s **¶16578037**
NEIC V 06 22 41 07.9–1.5 35.70N 142.25E 45–11 4.2b,3.5s
IDC V 06 22 41 09.2–2.6 36.90N 141.87E 0 3.8,3.8
JMA V 06 22 41 16.8–.10 36.75N 141.35E 41–2 3.8,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ38.00000°,λ-105.00000°. NP2:ϕ_s60.00000°,δ54.00000°,λ-78.00000°. $M_0$3.43000×10^{14}
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.3km az=137.0.
IDC Error ellipse: s-maj=58.8km s-min=28.6km az=75.0.
ISC V 06 23 24 52.7–.70 35.45N–.05 141.68E–.07 25 4.0b,3.6s 34 1-84
NIED V 06 23 24 00 35.50N 142.00E 14 4.1W,3.6s **¶16578039**
JMA V 06 23 24 49.8–.30 35.51N 141.96E 39–4 3.8,3.6s
IDC V 06 23 24 49.0–.77 35.51N 141.74E 0 4.0,3.8
ISCJB V 06 23 24 50.5–.54 35.45N–.04 141.84E–.06 25 4.0b,3.3s
NEIC V 06 23 24 57.0–.90 35.59N 141.60E 56–7 4.4b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ34.00000°,λ78.00000°. NP2:ϕ_s22.00000°,δ57.00000°,λ98.00000°. $M_0$1.68000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=17.4km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.0km az=41.3.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.0km az=114.0.
ISC V 06 23 43 14.9–1.2 39.22N–.04 142.35E–.06 19–3 3.8b 31 1-70
NIED V 06 23 43 00 39.30N 142.40E 35 4.1W **¶17202960**
JMA V 06 23 43 15.8–.10 39.27N 142.37E 37–1 3.8
IDC V 06 23 43 18.6–2.5 39.20N 142.44E 62–23 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ65.00000°,λ-177.00000°. NP2:ϕ_s227.00000°,δ87.00000°,λ-25.00000°. $M_0$1.82000×10^{15}
JMA Event type fe.
IDC Error ellipse: s-maj=27.4km s-min=15.2km az=104.0.
ISC V 07 00 18 23.7–1.4 34.90N–.05 141.00E–.09 35 3.6b 15 0-59
JMA V 07 00 18 21.8–.20 34.93N 141.08E 43–3 2.9 **¶17202962**
IDC V 07 00 18 21.1–1.4 34.75N 140.82E 0 3.9,3.6
ISCJB V 07 00 18 23.2–.81 34.85N–.05 140.94E–.08 35 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 07 02 02 50.2–2.0 37.04N–.06 141.60E–.07 8–11 3.5b 20 1-69
IDC V 07 02 02 48.8–1.3 36.92N 141.62E 0 3.6,3.5b **¶17202965**
JMA V 07 02 02 52.9–.20 37.01N 141.50E 43–2 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=26.9km az=102.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 07 02 14 28.5–1.8 39.57N–.04 142.73E–.06 17–10 3.5b 34 1-61
NIED V 07 02 14 00 39.60N 142.60E 41 3.8W **¶17202968**
IDC V 07 02 14 25.3–1.2 39.35N 143.16E 0 3.6,3.4
ISCJB V 07 02 14 28.3–1.0 39.59N–.04 142.77E–.06 23–7 3.4b,3.4
JMA V 07 02 14 30.1–.10 39.59N 142.65E 31–2 3.9,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ18.00000°,λ150.00000°. NP2:ϕ_s24.00000°,δ81.00000°,λ74.00000°. $M_0$5.43000×10^{14}
IDC Error ellipse: s-maj=36.9km s-min=22.6km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.2km az=27.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 07 02 57 00.3–2.1 38.29N–.06 142.0E–.10 41–17 3.8b 30 1-73
IDC V 07 02 56 53.1–1.8 38.40N 142.46E 0 3.8b,3.8 **¶16560920**
NEIC V 07 02 56 58.8–1.0 38.39N 142.28E 35 4.2b,3.8
ISCJB V 07 02 57 00.5–1.1 38.30N–.05 141.9E–.10 55–7 3.8b,3.1s
NIED V 07 02 57 00 38.30N 141.90E 53 4.2W,3.1s
JMA V 07 02 57 01.4–.10 38.31N 141.87E 46–1 3.7,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=48.0km s-min=26.8km az=79.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=11.9km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=16.8km s-min=6.0km az=18.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ25.00000°,λ-106.00000°. NP2:ϕ_s265.00000°,δ66.00000°,λ-83.00000°. $M_0$1.89000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 07 05 54 47.9–.10 38.46N 141.83E 55–1 3.6 ¶600608779
JMA Event type fe.
ISC V 07 06 21 42.3–2.3 37.70N–.04 141.91E–.09 37–3 31 1-61
NIED V 07 06 21 00 37.70N 141.70E 35 3.7W **¶17202975**
IDC V 07 06 21 33.4–5.1 38.10N 142.25E 0 3.8,3.7
ISCJB V 07 06 21 42.3–.90 37.71N–.04 141.82E–.09 56–11 3.7b,3.7
JMA V 07 06 21 43.4 37.73N 141.74E 51–2 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ51.00000°,λ137.00000°. NP2:ϕ_s318.00000°,δ58.00000°,λ48.00000°. $M_0$4.30000×10^{14}
IDC Error ellipse: s-maj=97.4km s-min=53.1km az=180.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.7km az=14.2.
JMA Event type fe.
JMA V 07 09 43 43.2–.10 39.84N 142.22E 30–1 3.6
NIED V 07 09 43 00 39.80N 142.20E 35 3.3W **¶600608888**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ35.00000°,λ-101.00000°. NP2:ϕ_s91.00000°,δ56.00000°,λ-83.00000°. $M_0$1.06000×10^{14}
JMA V 07 10 04 49.1–.10 38.46N 142.21E 28–2 3.8
NIED V 07 10 04 00 38.50N 142.20E 59 4.3W **¶600608898**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ35.00000°,λ-26.00000°. NP2:ϕ_s130.00000°,δ75.00000°,λ-123.00000°. $M_0$3.42000×10^{15}
ISC V 07 10 41 54.6–1.9 39.11N–.04 142.24E–.10 25–12 3.8b 25 0-59
NIED V 07 10 41 00 39.10N 142.40E 26 3.3W **¶17202982**
ISCJB V 07 10 41 54.6–1.2 39.13N–.04 142.3E–.10 41–12 3.6b
JMA V 07 10 41 54.1–.10 39.12N 142.36E 36–2 3.6
IDC V 07 10 41 57.4–1.8 39.59N 141.28E 0 3.7,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ20.00000°,λ-31.00000°. NP2:ϕ_s192.00000°,δ80.00000°,λ-107.00000°. $M_0$1.18000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=6.1km az=10.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=49.4km s-min=24.9km az=86.0.
ISC V 07 11 24 49.6–1.6 36.63N–.04 141.12E–.05 1–10 4.2b,3.6s 57 0-91
NIED V 07 11 24 00 36.70N 141.20E 5 4.0W,3.6s **¶16560925**
ISCJB V 07 11 24 48.1–.91 36.66N–.03 141.26E–.04 4–5 4.1b,3.4s
IDC V 07 11 24 49.8–.61 36.61N 141.10E 0 4.1,4.0
JMA V 07 11 24 51.0–.10 36.72N 141.11E 24–1 4.2,4.0
NEIC V 07 11 24 54.9–.45 36.61N 141.12E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ51.00000°,λ-159.00000°. NP2:ϕ_s240.00000°,δ74.00000°,λ-41.00000°. $M_0$1.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=22.5.
IDC Error ellipse: s-maj=14.8km s-min=12.9km az=163.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=8.2km az=105.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
ISC V 07 11 32 28.4–1.1 38.15N–.04 141.66E–.08 57–9 3.2b 34 0-63
NIED V 07 11 32 00 38.10N 141.60E 71 3.7W **¶17202983**
ISCJB V 07 11 32 27.3–.67 38.13N–.03 141.67E–.08 68–6 3.1b
IDC V 07 11 32 28.3–2.3 38.17N 141.59E 59–25 3.3,3.3
JMA V 07 11 32 29.1 38.15N 141.55E 61–1 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ33.00000°,λ116.00000°. NP2:ϕ_s201.00000°,δ61.00000°,λ74.00000°. $M_0$3.64000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.1km az=13.4.
IDC Error ellipse: s-maj=33.1km s-min=15.3km az=104.0.
JMA Event type fe.
ISC V 07 14 25 40.0–1.8 38.27N–.04 142.04E–.08 26–13 3.8b 25 1-89
NIED V 07 14 25 00 38.40N 142.00E 68 3.9W **¶17202992**
ISCJB V 07 14 25 40.9–1.1 38.35N–.04 142.1E–.10 44–11 3.7b,2.8s
IDC V 07 14 25 41.0–5.8 38.20N 142.30E 33–46 3.7,3.7
JMA V 07 14 25 42.2–.10 38.39N 141.98E 47–1 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ46.00000°,λ179.00000°. NP2:ϕ_s220.00000°,δ89.00000°,λ44.00000°. $M_0$7.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.0km s-min=6.2km az=17.2.
IDC Error ellipse: s-maj=35.2km s-min=16.8km az=107.0.
JMA Event type fe.
ISC V 07 14 31 03.3–1.2 35.72N–.04 140.92E–.09 17–5 19 0-59
NIED V 07 14 31 00 35.70N 140.90E 11 3.6W **¶17202993**
IDC V 07 14 31 01.0–1.8 35.71N 141.03E 0 3.7,3.6
ISCJB V 07 14 31 02.4–1.2 35.72N–.04 141.1E–.10 26–7 3.6b,3.6
JMA V 07 14 31 04.2–.10 35.73N 140.92E 13–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ42.00000°,λ-100.00000°. NP2:ϕ_s5.00000°,δ48.00000°,λ-81.00000°. $M_0$2.99000×10^{14}
IDC Error ellipse: s-maj=46.2km s-min=25.1km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=16.0km s-min=5.7km az=174.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 07 16 28 10.3 36.93N 140.68E 5–1 2.8 ¶600609130
ISC V 07 17 17 09.3–1.1 36.37N–.08 140.98E–.09 21–5 3.4b 21 0-75

NIED V 07 17 17 00 36.30N 141.00E 26 3.5W ¶17202999
IDC V 07 17 17 05.7–1.1 36.25N 141.03E 0 3.6,3.5
ISCJB V 07 17 17 08.5–1.2 36.33N–.06 141.05E–.07 32–6 3.4b,3.5
JMA V 07 17 17 09.8–.10 36.32N 140.95E 41–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ9.00000°,λ-1.00000°. NP2:ϕ_s224.00000°,δ90.00000°,λ-99.00000°. $M_0$2.13000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=21.6km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=7.1km az=136.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 07 19 02 49.4–1.6 35.20N–.07 141.2E–.10 48 10 1-59
IDC V 07 19 02 40.1–6.2 35.71N 142.04E 0 3.5,3.4b ¶17203000
JMA V 07 19 02 47.7–.20 35.23N 141.26E 23–4 2.3,3.4b
ISCJB V 07 19 02 48.1–1.2 35.20N–.09 141.2E–.10 48 3.5b,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC V 07 19 56 25.7–.46 36.12N–.05 141.93E–.05 23 4.3b,3.6s 148 1-147
NIED V 07 19 56 00 36.20N 141.80E 17 4.1W,3.6s ¶16505594
IDC V 07 19 56 23.0–.55 36.12N 141.77E 0 4.2,4.1
ISCJB V 07 19 56 24.0–.31 36.15N–.03 141.92E–.04 23 4.3b,3.7s
MOS V 07 19 56 25.5–.97 36.19N 141.92E 33 4.5b,3.7s
JMA V 07 19 56 26.3–.30 36.18N 141.76E 55–5 3.9,3.7s
NEIC V 07 19 56 28.8–.70 36.13N 141.69E 40–6 4.6b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ23.00000°,λ97.00000°. NP2:ϕ_s26.00000°,δ67.00000°,λ87.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=11.9km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=43.1.
MOS Error ellipse: s-maj=10.0km s-min=6.2km az=114.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.9km az=92.0.
ISC V 07 20 03 05.8–.61 38.80N–.04 141.86E–.07 76–5 4.2b 97 0-145
NIED V 07 20 03 00 38.80N 141.70E 77 4.0W ¶16505595
ISCJB V 07 20 03 04.3–.46 38.80N–.03 141.97E–.06 82–2 4.1b
IDC V 07 20 03 06.3–.79 38.80N 141.73E 74–7 4.1,3.9
NEIC V 07 20 03 06.5–.60 38.79N 141.88E 83–6 4.4b,3.9
JMA V 07 20 03 07.2–.10 38.81N 141.70E 78–1 4.1,3.9
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ84.00000°,λ175.00000°. NP2:ϕ_s171.00000°,δ85.00000°,λ6.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.7km az=20.8.
IDC Error ellipse: s-maj=16.4km s-min=11.2km az=102.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.5km az=118.0. Felt at Sendai. Recorded [2 JMA] in Iwate.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ84.00000°,λ-43.00000°. NP2:ϕ_s252.00000°,δ48.00000°,λ-172.00000°. Principal axes: T Plg24.0000°,Azm212.0000°; N Plg47.0000°,Azm331.0000°; P Plg33.0000°,Azm105.0000°
ISC V 07 20 52 20.8–.22 40.26N–.03 142.45E–.03 39–2 5.4b,5.3s 1321 1-155
NIED V 07 20 52 00 40.20N 142.40E 41 5.7W,5.3s ¶16499107
BJI V 07 20 52 13.2 40.09N 142.70E 16 5.6s,5.5
MOS V 07 20 52 19.5–1.3 40.37N 142.37E 33 5.6b,5.3s
JMA V 07 20 52 20.3–.10 40.24N 142.50E 34–1 5.7,5.3s
NEIC V 07 20 52 20.8–.10 40.24N 142.24E 35 5.7W,5.5b
GCMT V 07 20 52 20.8–.10 40.29N 142.53E 42–0 5.8W,5.5b
ISCJB V 07 20 52 21.0–.29 40.28N–.02 142.34E–.02 48–2 5.4b,5.3s
IDC V 07 20 52 22.7–.52 40.26N 142.33E 54–4 5.3s,5.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ22.00000°,λ66.00000°. NP2:ϕ_s25.00000°,δ70.00000°,λ100.00000°. $M_0$4.55000×10^{17}
MOS Error ellipse: s-maj=9.0km s-min=5.7km az=91.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=152.0. Recorded [4 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}2.32 $M_{\theta\theta}$0.73 $M_{\phi\phi}$-3.06 $M_{r\theta}$1.60 $M_{\theta\phi}$0.07 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s153.00000°,δ29.00000°,λ43.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ112.00000°. Principal axes: T 4.0300,Plg59.0000°,Azm324.0000°; N 0.0900,Plg20.0000°,Azm196.0000°; P -4.1200,Plg23.0000°,Azm97.0000° $M_0$4.10000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c239; s122,c340;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.85±.05 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$-3.94±.04; $M_{r\theta}$1.32±.04; $M_{\theta\phi}$-0.84±.03; $M_{\phi r}$3.16±.05; Best double couple: NP1:ϕ_s19.00000°,δ65.00000°,λ97.00000°. NP2:ϕ_s183.00000°,δ25.00000°,λ76.00000°. Principal axes: T 5.1590,Plg69.0000°,Azm302.0000°; N 0.1900,Plg6.0000°,Azm196.0000°; P -5.3470,Plg20.0000°,Azm104.0000° $M_0$5.25300×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=149.6.
IDC Error ellipse: s-maj=9.0km s-min=7.2km az=89.0.
JMA V 07 21 22 00.0–.20 35.73N 140.87E 13–1 3.5
¶600609283
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 07 21 23 58.5–1.8 37.25N–.05 141.73E–.07 29–12 4.0b 50 1-90
ISCJB V 07 21 23 58.2–.86 37.28N–.04 141.73E–.07 41–6 3.9b ¶16560928
JMA V 07 21 24 00.4–.10 37.34N 141.60E 44–2 4.3
NIED V 07 21 24 00 37.30N 141.60E 32 4.1W
IDC V 07 21 24 01.8–2.0 37.33N 141.60E 53–17 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.6km az=16.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ33.00000°,λ105.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ80.00000°. $M_0$1.86000×10^{15}
IDC Error ellipse: s-maj=17.7km s-min=13.8km az=102.0.
JMA V 07 21 57 24.4–.20 37.09N 141.57E 37–2 3.7
¶600609300
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 07 22 20 52.2–3.2 38.07N–.05 142.62E–.09 10–17 21 1-58
IDC V 07 22 20 49.0–2.1 38.04N 143.06E 0 3.6,3.6 ¶17203007
JMA V 07 22 20 53.9–.10 38.01N 142.61E 39–2 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=51.1km s-min=23.5km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 07 23 48 42.9–.97 39.23N–.05 142.24E–.09 46 3.6b 26 0-67
NIED V 07 23 48 00 39.30N 142.30E 47 3.9W ¶17203011
ISCJB V 07 23 48 42.0–.79 39.29N–.04 142.25E–.08 46 3.6b
JMA V 07 23 48 42.2–.10 39.28N 142.24E 42–1 3.4
IDC V 07 23 48 46.7–2.0 39.22N 142.12E 85–18 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ14.00000°,λ79.00000°. NP2:ϕ_s25.00000°,δ76.00000°,λ93.00000°. $M_0$8.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=17.8.
JMA Event type fe.
IDC Error ellipse: s-maj=29.6km s-min=13.8km az=101.0.
ISC V 08 00 23 05.6–1.6 36.33N–.05 140.83E–.06 13–10 3.5b 20 0-56
NIED V 08 00 23 00 36.40N 140.90E 35 3.5W ¶17203012
IDC V 08 00 23 03.1–2.0 36.33N 141.05E 0 3.4,3.4
ISCJB V 08 00 23 06.1–1.0 36.33N–.05 140.94E–.07 29–6 3.4b,3.0s
JMA V 08 00 23 07.2–.10 36.36N 140.88E 37–1 3.5,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ33.00000°,λ173.00000°. NP2:ϕ_s3.00000°,δ86.00000°,λ57.00000°. $M_0$1.78000×10^{14}
IDC Error ellipse: s-maj=44.1km s-min=23.9km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=7.2km az=29.5.
JMA Event type fe.
ISC V 08 00 31 21.1–2.7 36.31N–.07 141.8E–.10 5–17 3.5b 17 1-60
JMA V 08 00 31 25.2–.10 36.39N 141.61E 65–3 3.2 ¶17203014
IDC V 08 00 31 27.4–6.0 36.25N 141.65E 51–46 3.3,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=48.5km s-min=13.4km az=64.0.
ISC V 08 00 46 27.3–1.1 36.94N–.03 140.63E–.04 5–8 4.0b 32 0-78
ISCJB V 08 00 46 26.6–.59 36.92N–.03 140.75E–.05 17–4 3.8b ¶16577230
IDC V 08 00 46 26.5–.92 36.85N 140.59E 0 3.9,3.8
JMA V 08 00 46 27.4 36.94N 140.63E 9–1 3.5,3.8
NEIC V 08 00 46 32.6–2.1 36.87N 140.44E 42–18 4.2b,3.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.4km az=19.6.
IDC Error ellipse: s-maj=20.0km s-min=16.1km az=171.0.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=14.3km az=96.0.
JMA V 08 00 58 10.1–.10 35.78N 140.90E 13–1 3.2
¶600609393
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 08 02 55 51.7–1.1 35.91N–.07 141.71E–.09 26 3.5b 17 1-60
IDC V 08 02 55 47.8–1.2 35.85N 141.73E 0 3.7,3.5 ¶17203019
ISCJB V 08 02 55 49.5–.78 35.89N–.05 141.85E–.07 26 3.5b,3.5
JMA V 08 02 55 51.1–.20 35.89N 141.76E 51–3 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=44.9km s-min=23.2km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.5km az=28.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 08 03 12 56.3–3.6 35.88N 140.92E 0 3.3,3.3b
¶17203023
IDC Error ellipse: s-maj=98.8km s-min=31.6km az=54.0.
JMA V 08 04 08 46.4 36.86N 140.62E 7–1 2.7
¶600609498
ISC V 08 04 53 42.5–.39 37.04N–.03 141.08E–.04 51–3 4.4b,3.6s 206 0-152
NIED V 08 04 53 00 37.00N 141.10E 50 4.4W,3.6s ¶16499295
ISCJB V 08 04 53 41.7–.36 37.03N–.03 141.08E–.04 57–2 4.4b,3.5s
JMA V 08 04 53 42.3–.10 37.02N 141.08E 51–1 4.4,3.5s
IDC V 08 04 53 42.7–.40 37.02N 140.98E 51–3 4.3,4.2
NEIC V 08 04 53 43.1–.53 37.06N 140.98E 55–4 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ18.00000°,λ112.00000°. NP2:ϕ_s19.00000°,δ74.00000°,λ83.00000°. $M_0$4.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=34.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.8km s-min=7.9km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=131.0. Recorded [3 JMA] in Fukushima.
ISC V 08 05 01 48.2–1.2 36.89N–.03 140.65E–.04 3–8 3.8b 27 0-147
ISCJB V 08 05 01 47.7–.63 36.88N–.03 140.73E–.06 10–4 3.8b ¶17203025
IDC V 08 05 01 47.7–.84 36.65N 140.64E 0 4.0,3.8
JMA V 08 05 01 48.1 36.89N 140.67E 8–1 3.7,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.1km az=18.7.
IDC Error ellipse: s-maj=22.7km s-min=14.2km az=172.0.
JMA Event type fe.
ISC V 08 05 29 29.7–1.5 39.35N–.06 142.92E–.10 18 3.5b 23 1-61
NIED V 08 05 29 00 39.30N 143.00E 11 3.4W ¶17203027
IDC V 08 05 29 24.2–1.4 39.50N 143.64E 0 3.5,3.4
ISCJB V 08 05 29 27.8–1.0 39.32N–.06 143.09E–.09 18 3.4b,3.4
JMA V 08 05 29 28.1–.20 39.35N 143.03E 19–2 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ79.00000°,λ-11.00000°. NP2:ϕ_s334.00000°,δ80.00000°,λ-169.00000°. $M_0$1.53000×10^{14}
IDC Error ellipse: s-maj=31.2km s-min=25.2km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=8.8km az=17.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 08 07 53 00.8–2.1 37.45N–.05 141.79E–.08 16–12 3.4b 17 1-63
IDC V 08 07 52 59.7–1.3 37.11N 142.56E 0 3.6,3.5b ¶17203034
ISCJB V 08 07 53 01.3–1.6 37.45N–.05 141.81E–.09 30–8 3.5b,3.5b
JMA V 08 07 53 02.4–.20 37.48N 141.78E 33–4 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=29.5km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=7.8km az=7.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 08 10 42 54.2–.34 37.67N–.03 141.58E–.03 54–2 4.8b,3.7s 583 1-153
NIED V 08 10 42 00 37.60N 141.60E 53 4.6W,3.7s ¶16499301
JMA V 08 10 42 53.7–.10 37.65N 141.59E 46–2 4.7,3.7s
ISCJB V 08 10 42 53.9–.30 37.66N–.02 141.45E–.03 60–2 4.8b,3.8s
IDC V 08 10 42 54.2–.37 37.63N 141.51E 53–3 4.7,4.6
MOS V 08 10 42 54.3–.84 37.88N 141.44E 57 5.1b,4.6
NEIC V 08 10 42 55.8–.39 37.65N 141.44E 64–3 4.8b,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ36.00000°,λ115.00000°. NP2:ϕ_s3.00000°,δ58.00000°,λ73.00000°. $M_0$8.76000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=41.7.
IDC Error ellipse: s-maj=10.8km s-min=7.4km az=103.0.
MOS Error ellipse: s-maj=6.1km s-min=4.3km az=107.7.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=137.0. Felt at Tokyo. Recorded [3 JMA] in Fukushima and Miyagi.
ISC V 08 11 21 31.4–2.0 38.77N–.04 142.39E–.07 12–11 3.6b 31 1-63
NIED V 08 11 21 00 38.80N 142.40E 20 3.5W ¶17203043
JMA V 08 11 21 32.9–.10 38.80N 142.35E 28–2 4.1
IDC V 08 11 21 35.6–2.3 38.70N 142.37E 44–21 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ14.00000°,λ141.00000°. NP2:ϕ_s341.00000°,δ81.00000°,λ79.00000°. $M_0$2.12000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.0km s-min=14.2km az=90.0.
JMA V 08 11 39 08.9 38.24N 141.82E 56–1 3.6
¶600609751
JMA Event type fe.
ISC V 08 11 49 51.2–1.3 38.26N–.05 141.78E–.09 45–12 3.6b 28 0-89
NIED V 08 11 49 00 38.30N 141.70E 5 4.1W ¶600609757
ISCJB V 08 11 49 50.4–.74 38.26N–.04 141.76E–.09 56–7 3.6b
IDC V 08 11 49 51.6–2.4 38.21N 141.77E 50–22 3.6,3.6
JMA V 08 11 49 52.0–.10 38.30N 141.67E 52–1 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ4.00000°,λ-95.00000°. NP2:ϕ_s175.00000°,δ86.00000°,λ-90.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=5.2km az=19.5.
IDC Error ellipse: s-maj=36.7km s-min=15.6km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 08 13 28 39.4–1.3 38.53N–.05 142.58E–.04 13–7 4.5b,3.5s 159 1-145
NIED V 08 13 28 00 38.50N 142.50E 20 4.2W,3.5s ¶16499305
ISCJB V 08 13 28 38.3–.89 38.53N–.03 142.61E–.05 15–5 4.4b,3.6s
MOS V 08 13 28 41.1–1.0 38.61N 142.57E 33 4.5b,3.6s
JMA V 08 13 28 41.0–.10 38.56N 142.47E 28–2 4.2,3.6s
NEIC V 08 13 28 44.0–.66 38.54N 142.49E 42–6 4.8b,3.6s
IDC V 08 13 28 46.0–2.5 38.51N 142.41E 59–21 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ43.00000°,λ-114.00000°. NP2:ϕ_s343.00000°,δ52.00000°,λ-69.00000°. $M_0$2.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.6km az=32.5.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=97.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.4km az=124.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=14.4km s-min=12.7km az=126.0.
ISC V 08 13 36 48.9–1.5 36.75N–.07 141.1E–.10 40–13 20 0-60
IDC V 08 13 36 44.8–5.2 36.52N 141.23E 0 3.5,3.3b ¶17203050
ISCJB V 08 13 36 48.3–1.0 36.75N–.05 141.1E–.10 50–8 3.3b,3.3b
JMA V 08 13 36 50.1–.10 36.78N 140.99E 49–1 3.1,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=113.3km s-min=38.1km az=33.0.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=6.8km az=24.1.
ISC V 08 15 20 44.4–.96 36.91N–.03 140.74E–.04 14–6 3.9b 61 0-147
NIED V 08 15 20 00 37.00N 140.80E 8 3.8W ¶16501802
IDC V 08 15 20 42.9–.59 36.96N 140.85E 0 4.0,3.9
ISCJB V 08 15 20 43.9–.81 36.98N–.03 140.97E–.06 19–5 4.0s,3.9b

JMA V 08 15 20 45.6 36.98N 140.78E 12–1 4.1,3.9b
NEIC V 08 15 20 49.3–.60 37.04N 140.78E 43–5 4.2b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ50.00000°,λ-41.00000°. NP2:ϕ_s161.00000°,δ60.00000°,λ-132.00000°. M_o5.68000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=12.8km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.4km az=24.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ54.00000°,λ-55.00000°. NP2:ϕ_s180.00000°,δ49.00000°,λ-128.00000°. Principal axes: T Plg3.0000°,Azm116.0000°; N Plg28.0000°,Azm208.0000°; P Plg62.0000°,Azm20.0000°
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.1km az=113.0. Recorded [2 JMA] in Fukushima and Ibaraki.

ISC V 08 18 08 16.6–2.1 38.93N–.06 142.61E–.08 10–12 3.6b 23 1-63
IDC V 08 18 08 14.6–1.2 38.82N 142.62E 0 3.7,3.6 **¶17203063**
JMA V 08 18 08 18.7–.20 38.95N 142.56E 27–2 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.1km s-min=21.6km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 08 19 22 55.0–1.6 38.35N–.05 142.1E–.10 43–15 3.5b 34 1-76
NIED V 08 19 22 00 38.40N 142.00E 44 3.8W **¶600610038**
ISCJB V 08 19 22 54.1–.93 38.36N–.04 142.08E–.10 51–8 3.6b
JMA V 08 19 22 55.5–.10 38.40N 141.99E 48–1 3.8
IDC V 08 19 22 57.5–2.1 38.33N 142.00E 68–20 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ45.00000°,λ17.00000°. NP2:ϕ_s189.00000°,δ78.00000°,λ134.00000°. M_o5.14000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=5.8km az=16.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.0km s-min=13.6km az=101.0.

ISC V 08 19 30 19.6–.58 36.26N–.05 141.41E–.07 26 4.0b,3.0s 44 1-147
NIED V 08 19 30 00 36.20N 141.40E 20 4.0W,3.0s **¶16560934**
ISCJB V 08 19 30 17.8–.46 36.27N–.04 141.48E–.06 26 3.8b,3.0s
JMA V 08 19 30 19.2–.20 36.24N 141.40E 56–3 3.8,3.0s
IDC V 08 19 30 21.5–1.8 36.23N 141.34E 42–17 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ17.00000°,λ109.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ84.00000°. M_o1.12000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.0km az=29.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=10.5km az=97.0.

ISC V 08 20 25 21.8–2.3 38.40N–.05 142.2E–.10 27–14 3.5b 23 1-62
NIED V 08 20 25 00 38.40N 142.20E 20 3.6W **¶17203075**
ISCJB V 08 20 25 21.8–1.5 38.38N–.04 142.28E–.08 33–10 3.4b
JMA V 08 20 25 22.4–.10 38.43N 142.23E 30–2 3.7
IDC V 08 20 25 25.5–3.0 38.45N 142.03E 56–25 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ53.00000°,λ-11.00000°. NP2:ϕ_s281.00000°,δ82.00000°,λ-143.00000°. M_o2.82000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.5km az=1.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=43.4km s-min=19.0km az=81.0.

ISC V 08 21 28 23.7–.85 35.92N–.04 140.88E–.07 31 3.5b 16 0-56
IDC V 08 21 28 19.9–1.4 35.88N 140.80E 0 3.6,3.5 **¶17203079**
ISCJB V 08 21 28 21.3–.87 35.91N–.04 141.12E–.10 31 3.4b,3.5
JMA V 08 21 28 23.8–.10 35.89N 140.84E 42–1 2.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=21.3km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.3km az=174.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA V 08 21 28 31.5–.10 36.32N 140.81E 53–1 3.3
¶600610112
JMA Event type fe.

ISC V 08 21 37 11.2–1.7 35.94N–.06 141.1E–.10 35–2 15 0-56
ISCJB V 08 21 37 10.5–1.3 35.90N–.05 141.1E–.10 48–7 3.5b,3.3s **¶600610122**
JMA V 08 21 37 12.2–.10 35.90N 140.84E 40–1 2.8,3.3s
IDC V 08 21 37 16.9–1.5 34.78N 138.02E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=7.5km az=166.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=45.0km s-min=23.6km az=71.0.

ISC V 08 23 03 58.5–1.2 36.89N–.03 140.73E–.05 6–9 3.6b 19 0-57
NIED V 08 23 03 00 36.90N 140.70E 8 3.5W **¶17203087**
ISCJB V 08 23 03 58.0–.75 36.90N–.03 140.74E–.06 8–5 3.7b
IDC V 08 23 03 57.3–1.9 36.69N 140.78E 0 3.8,3.6
JMA V 08 23 03 58.5 36.92N 140.68E 10–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ21.00000°,λ-143.00000°. NP2:ϕ_s183.00000°,δ78.00000°,λ-73.00000°. M_o2.34000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.6km az=20.0.
IDC Error ellipse: s-maj=42.3km s-min=26.5km az=51.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s176.00000°,δ68.00000°,λ-68.00000°. NP2:ϕ_s308.00000°,δ31.00000°,λ-133.00000°. Principal axes: T Plg20.0000°,Azm249.0000°; N Plg20.0000°,Azm347.0000°; P Plg61.0000°,Azm119.0000°

ISC V 09 00 00 58.9–1.0 36.82N–.03 140.51E–.04 8–7 4.0b 40 0-147
NIED V 09 00 00 00 36.80N 140.60E 5 3.9W **¶600610184**
IDC V 09 00 00 57.3–.63 36.81N 140.52E 0 4.0,3.8
ISCJB V 09 00 00 58.5–.49 36.79N–.03 140.62E–.05 19–3 3.9b,3.8
JMA V 09 00 00 58.9 36.81N 140.58E 5–1 3.8,3.8
NEIC V 09 00 01 04.2–.88 36.78N 140.36E 51–8 4.1b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ18.00000°,λ-109.00000°. NP2:ϕ_s214.00000°,δ73.00000°,λ-84.00000°. M_o6.92000×10^{14}
IDC Error ellipse: s-maj=17.3km s-min=15.6km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=27.2.
JMA Event type fe.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.9km az=134.0.

ISC V 09 00 41 15.1–2.1 36.97N–.06 141.57E–.07 9–12 3.5b 23 1-90
NIED V 09 00 41 00 36.90N 141.60E 5 3.4W **¶17203093**
IDC V 09 00 41 13.8–1.3 36.79N 141.70E 0 3.6,3.4
ISCJB V 09 00 41 14.4–1.3 36.94N–.05 141.63E–.06 15–7 3.4b,3.4
JMA V 09 00 41 15.3–.10 36.92N 141.58E 30–2 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ43.00000°,λ-101.00000°. NP2:ϕ_s226.00000°,δ48.00000°,λ-80.00000°. M_o1.61000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=28.8km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=6.7km az=42.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 09 02 09 51.3–1.7 38.28N–.05 142.1E–.10 60–12 3.4b 29 1-74
IDC V 09 02 09 39.4–2.3 38.41N 143.00E 0 3.7,3.6 **¶17203096**
ISCJB V 09 02 09 52.1–1.1 38.34N–.04 141.9E–.10 70–6 3.4b,3.6
JMA V 09 02 09 53.0–.10 38.34N 141.87E 64–1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=57.7km s-min=31.5km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=6.0km az=15.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 09 02 19 18.9–1.2 36.39N–.04 141.15E–.06 19–4 3.5b 31 1-83
NIED V 09 02 19 00 36.40N 141.00E 41 3.7W **¶600610238**
IDC V 09 02 19 16.1–1.0 36.39N 141.15E 0 3.7,3.6
JMA V 09 02 19 21.9–.10 36.39N 141.02E 47–2 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ26.00000°,λ79.00000°. NP2:ϕ_s32.00000°,δ65.00000°,λ95.00000°. M_o3.68000×10^{14}
IDC Error ellipse: s-maj=23.1km s-min=19.7km az=180.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 09 02 26 38.9–1.9 36.94N–.04 141.56E–.06 3–11 3.9b 49 1-117
NIED V 09 02 26 00 36.90N 141.60E 8 3.9W **¶16560936**
ISCJB V 09 02 26 38.0–1.4 36.93N–.03 141.71E–.04 9–9 3.8b
IDC V 09 02 26 38.4–.74 36.84N 141.56E 0 4.0,3.8
JMA V 09 02 26 41.0–.10 36.96N 141.54E 43–2 4.3,3.8
NEIC V 09 02 26 42.8–2.7 36.85N 141.63E 30–20 4.0b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ40.00000°,λ-89.00000°. NP2:ϕ_s27.00000°,δ50.00000°,λ-91.00000°. M_o9.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=5.0km az=162.5.
IDC Error ellipse: s-maj=19.0km s-min=18.5km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=10.1km az=102.0. Recorded [2 JMA] in Fukushima.

ISC V 09 02 55 38.5–1.6 36.68N–.07 141.86E–.09 19 3.6b 20 1-45
IDC V 09 02 55 30.3–8.4 36.13N 142.49E 0 3.7,3.7 **¶600610257**
ISCJB V 09 02 55 36.4–1.1 36.66N–.07 142.07E–.09 19 3.5b,3.7
JMA V 09 02 55 36.7–.40 36.60N 142.07E 51 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=165.4km s-min=33.6km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=9.5km az=35.2.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

ISC V 09 06 58 43.5–1.9 37.25N–.05 141.57E–.07 27–13 3.9b 31 1-146
NIED V 09 06 58 00 37.30N 141.60E 47 3.9W **¶17203110**
ISCJB V 09 06 58 44.0–1.2 37.28N–.05 141.7E–.10 46–9 3.8b,3.5s
JMA V 09 06 58 44.6–.10 37.29N 141.60E 45–2 3.8,3.5s
IDC V 09 06 58 48.9–2.9 37.24N 141.55E 77–26 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ25.00000°,λ72.00000°. NP2:ϕ_s50.00000°,δ67.00000°,λ98.00000°. M_o8.15000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=7.7km az=21.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=20.6km az=6.0.

ISC V 09 09 09 25.6–1.0 35.84N–.06 140.95E–.08 21–2 3.9s,3.6b 15 0-148
NIED V 09 09 09 00 35.80N 140.90E 32 3.8W,3.6b **¶17203115**
IDC V 09 09 09 22.4–1.2 35.70N 141.06E 0 3.8,3.7
ISCJB V 09 09 09 25.4–.97 35.85N–.06 140.97E–.10 30–5 4.0s,3.6b
JMA V 09 09 09 26.3–.10 35.82N 140.92E 29–1 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ50.00000°,λ-36.00000°. NP2:ϕ_s295.00000°,δ63.00000°,λ-134.00000°. M_o5.33000×10^{14}
IDC Error ellipse: s-maj=31.6km s-min=30.0km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=8.1km az=155.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA V 09 09 17 44.3–.10 35.86N 140.78E 18–2 2.7
¶17203116
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 09 10 53 19.7–.83 36.53N–.04 140.95E–.06 47–7 4.3b,3.4s 70 0-91
NIED V 09 10 53 00 36.60N 140.90E 56 4.1W,3.4s **¶16502522**
ISCJB V 09 10 53 18.7–.41 36.54N–.03 140.96E–.05 56–3 4.2b,3.3s
NEIC V 09 10 53 18.5–.42 36.53N 140.99E 35 4.5b,3.3s
JMA V 09 10 53 20.0–.10 36.54N 140.86E 52–1 4.0,3.3s
IDC V 09 10 53 22.8–2.0 36.49N 140.75E 75–17 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ56.00000°,λ144.00000°. NP2:ϕ_s107.00000°,δ61.00000°,λ39.00000°. M_o1.84000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.1km az=5.8.
NEIC Event type fe. Error ellipse: s-maj=9.7km s-min=7.4km az=108.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
IDC Error ellipse: s-maj=16.6km s-min=11.5km az=85.0.

ISC V 09 12 08 17.4–1.3 36.42N–.04 141.06E–.04 9–7 4.3b,3.4s 93 0-147
NIED V 09 12 08 00 36.50N 141.10E 5 4.1W,3.4s **¶16503261**
ISCJB V 09 12 08 15.1–.84 36.37N–.03 141.14E–.04 5–5 4.2b,3.6s
IDC V 09 12 08 15.3–.56 36.42N 140.97E 0 4.2,4.1
JMA V 09 12 08 17.6 36.47N 141.08E 23–1 4.4,4.1
NEIC V 09 12 08 21.3–.38 36.27N 140.98E 35 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ19.00000°,λ-103.00000°. NP2:ϕ_s197.00000°,δ72.00000°,λ-86.00000°. M_o1.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=5.0km az=8.5.
IDC Error ellipse: s-maj=17.1km s-min=13.9km az=84.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.8km az=124.0. Recorded [2 JMA] in Ibaraki and Tochigi.

ISC V 09 12 15 23.8–1.9 36.99N–.04 141.66E–.07 9–11 3.5b 23 1-61
NIED V 09 12 15 00 36.90N 142.00E 8 3.5W **¶600610503**
IDC V 09 12 15 23.6–1.4 36.99N 141.71E 0 3.8,3.8
ISCJB V 09 12 15 24.3–1.2 36.97N–.04 141.67E–.07 20–8 3.7b,3.0s
JMA V 09 12 15 26.4–.10 36.98N 141.53E 42–2 3.6,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ47.00000°,λ-68.00000°. NP2:ϕ_s182.00000°,δ47.00000°,λ-112.00000°. M_o1.88000×10^{14}
IDC Error ellipse: s-maj=41.0km s-min=23.7km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.2km az=10.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA V 09 13 15 37.4–.20 35.84N 140.99E 14–2 3.2
¶600610539
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 09 13 35 20.3–1.5 36.54N–.05 141.04E–.06 13–9 3.6b 19 0-67
NIED V 09 13 35 00 36.60N 141.00E 8 3.4W **¶17203127**
ISCJB V 09 13 35 18.8–1.1 36.51N–.04 141.18E–.07 19–8 4.0s,3.5b
IDC V 09 13 35 18.0–1.6 36.50N 141.09E 0 3.5,3.4
JMA V 09 13 35 21.2–.10 36.56N 140.99E 24–1 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ77.00000°,λ-180.00000°. NP2:ϕ_s233.00000°,δ90.00000°,λ-13.00000°. M_o1.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.8km az=22.9.
IDC Error ellipse: s-maj=33.0km s-min=23.3km az=71.0.
JMA Event type fe.

ISC V 09 13 55 45.9–.78 35.63N–.05 140.18E–.05 65–7 3.7b 37 0-79
NIED V 09 13 55 00 35.70N 140.20E 62 4.1W **¶17203129**
ISCJB V 09 13 55 45.2–.42 35.56N–.04 140.15E–.06 74–4 3.6b
JMA V 09 13 55 45.1–.20 35.66N 140.19E 66–2 3.7
IDC V 09 13 55 46.7–2.0 35.51N 140.12E 72–18 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ27.00000°,λ110.00000°. NP2:ϕ_s1.00000°,δ65.00000°,λ80.00000°. M_o1.75000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.8km az=145.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s11.00000°,δ86.00000°,λ89.00000°. NP2: ϕ_s205.00000°,δ4.00000°,λ104.00000°. Principal axes: T Plg49.0000°,Azm280.0000°; N Plg1.0000°,Azm11.0000°; P Plg41.0000°,Azm102.0000°
IDC Error ellipse: s-maj=22.1km s-min=14.1km az=76.0.

ISC V 09 14 53 26.1–2.3 36.1N–.10 141.9E–.20 23 3.7b 15 1-45
NIED V 09 14 53 00 36.20N 141.80E 23 3.6W **¶17203133**
IDC V 09 14 53 23.3–8.0 36.14N 141.90E 0 3.7,3.7
JMA V 09 14 53 26.5–.30 36.21N 141.85E 60 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ28.00000°,λ79.00000°. NP2:ϕ_s23.00000°,δ62.00000°,λ96.00000°. M_o2.81000×10^{14}
IDC Error ellipse: s-maj=172.3km s-min=51.6km az=167.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

JMA V 09 15 22 39.5–.10 35.80N 140.91E 30–1 1.6
¶603241693
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

IDC V 09 15 23 14.2–2.9 35.97N 141.91E 34–8 3.3,3.3
¶17203134
IDC Error ellipse: s-maj=89.9km s-min=20.0km az=59.0.

ISC V 09 16 44 48.5–1.5 36.86N–.07 141.8E–.10 19 3.5b 16 1-67
IDC V 09 16 44 46.2–2.2 36.69N 141.84E 0 3.6,3.4L **¶17203139**
ISCJB V 09 16 44 47.0–1.1 36.77N–.06 141.87E–.10 19 3.4b,3.4s
JMA V 09 16 44 50.8–.40 36.76N 141.56E 51–3 3.2,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=63.9km s-min=24.2km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=8.0km az=175.4.

JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC V 09 17 37 25.9–2.1 37.03N–.05 141.87E–.07 16–12 3.8b 37 1-75
NIED V 09 17 37 00 37.10N 141.70E 35 3.9W ¶16560941
ISCJB V 09 17 37 26.3–.93 36.98N–.03 141.94E–.08 34–8 3.7b,3.0s
JMA V 09 17 37 29.2–.30 37.06N 141.66E 47–4 3.8,3.0s
IDC V 09 17 37 29.1–2.6 37.01N 141.78E 38–23 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ21.00000°,λ92.00000°. NP2:ϕ_s20.00000°,δ69.00000°,λ89.00000°. $M_0$7.84000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.7km az=6.7.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=15.1km az=86.0.
ISC V 09 17 56 20.6–1.8 36.25N–.06 141.36E–.09 27–13 3.6b 22 1-65
NIED V 09 17 56 00 36.20N 141.40E 38 3.7W ¶17203142
JMA V 09 17 56 20.6–.20 36.19N 141.36E 50–3 3.6
IDC V 09 17 56 23.0–4.9 36.41N 141.15E 33–36 3.7L,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ84.00000°,λ178.00000°. NP2:ϕ_s177.00000°,δ88.00000°,λ6.00000°. $M_0$4.73000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=43.0km s-min=17.6km az=74.0.
JMA V 09 21 37 15.3–.10 38.46N 142.28E 35–2 3.6
¶600610806
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 09 22 54 17.5–.61 37.41N–.04 141.99E–.05 32–3 4.1b,3.5s 91 1-146
NIED V 09 22 54 00 37.50N 142.00E 38 4.2W,3.5s ¶16503269
ISCJB V 09 22 54 16.4–.72 37.47N–.03 142.08E–.05 34–6 4.1b,3.6s
JMA V 09 22 54 17.3–.20 37.54N 141.97E 28–4 4.1,3.6s
NEIC V 09 22 54 19.9–.85 37.51N 142.02E 47–8 4.4b,3.6s
IDC V 09 22 54 20.4–.73 37.44N 141.90E 52–6 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ20.00000°,λ40.00000°. NP2:ϕ_s67.00000°,δ78.00000°,λ105.00000°. $M_0$1.90000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=14.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.3km az=141.0.
IDC Error ellipse: s-maj=14.5km s-min=10.4km az=101.0.
ISC V 09 23 38 22.7–.76 36.73N–.03 140.52E–.04 8–4 4.6b,3.2s 220 0-147
NIED V 09 23 38 00 36.70N 140.70E 5 4.3W,3.2s ¶16502524
JMA V 09 23 38 22.7 36.70N 140.64E 6–1 4.5,3.2s
ISCJB V 09 23 38 22.6–.45 36.69N–.02 140.63E–.03 17–3 4.4b,3.3s
MOS V 09 23 38 26.0–1.0 36.89N 140.49E 33 4.8b,3.3s
IDC V 09 23 38 26.7–3.7 36.72N 140.41E 33–28 4.3,4.3
NEIC V 09 23 38 28.7–.51 36.75N 140.37E 48–4 4.6b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ30.00000°,λ-68.00000°. NP2:ϕ_s150.00000°,δ63.00000°,λ-102.00000°. $M_0$2.79000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s134.00000°,δ61.00000°,λ-116.00000°. NP2:ϕ_s0.00000°,δ38.00000°,λ-52.00000°. Principal axes: T Plg12.0000°,Azm243.0000°; N Plg23.0000°,Azm148.0000°; P Plg64.0000°,Azm359.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=30.5.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=107.8.
IDC Error ellipse: s-maj=14.7km s-min=11.3km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=153.0. Recorded [4 JMA] in Ibaraki.
ISC V 09 23 52 39.2–1.6 36.20N–.04 141.21E–.05 3–10 3.8b 54 1-147
NIED V 09 23 52 00 36.20N 141.10E 20 3.6W ¶16709300
IDC V 09 23 52 39.7–.71 36.17N 141.17E 0 3.9,3.8
ISCJB V 09 23 52 40.4–.75 36.25N–.03 141.19E–.05 20–5 3.9b,3.8
JMA V 09 23 52 42.2 36.24N 141.05E 40–1 3.9,3.8
NEIC V 09 23 52 44.8–.31 36.14N 141.10E 35 4.7b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ40.00000°,λ-77.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ-101.00000°. $M_0$2.99000×10^{14}
IDC Error ellipse: s-maj=18.6km s-min=16.1km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.5km az=7.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.3km az=162.0. Recorded [2 JMA] in Ibaraki.
ISC V 09 23 58 06.2–.97 36.73N–.04 140.59E–.07 13–7 3.5b 21 0-57
IDC V 09 23 58 04.0–1.9 36.78N 140.79E 0 3.7,3.5 ¶17203157
ISCJB V 09 23 58 05.6–.88 36.70N–.04 140.71E–.07 14–5 3.4b,3.5
JMA V 09 23 58 06.7 36.75N 140.58E 7–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=38.4km s-min=24.7km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=4.7km az=33.7.
JMA Event type fe.
ISC V 10 01 56 37.7–2.0 39.01N–.05 142.43E–.07 13–11 3.6b 24 1-63
NIED V 10 01 56 00 39.00N 142.40E 35 3.7W ¶17203161
ISCJB V 10 01 56 36.8–1.3 38.99N–.04 142.52E–.08 18–8 3.6b
JMA V 10 01 56 38.7–.10 39.04N 142.42E 34–2 3.9
IDC V 10 01 56 42.3–3.2 38.96N 142.46E 57–32 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s284.00000°,δ37.00000°,λ-141.00000°. NP2:ϕ_s162.00000°,δ68.00000°,λ-59.00000°. $M_0$4.67000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.0km az=23.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.1km s-min=15.0km az=110.0.
ISC V 10 02 49 43.0–.36 35.63N–.04 141.93E–.04 22 4.6b,4.0s 206 1-147
NIED V 10 02 49 00 35.90N 141.40E 8 4.6W,4.0s ¶16503271
ISCJB V 10 02 49 41.4–.23 35.55N–.03 141.93E–.03 22 4.5b,4.0s
NEIC V 10 02 49 42.8–3.2 35.62N 141.84E 19–19 4.7b,4.0s
MOS V 10 02 49 42.7–1.1 35.55N 141.93E 32 4.8b,4.0s
IDC V 10 02 49 44.1–3.7 35.56N 141.82E 25–24 4.3,4.3
JMA V 10 02 49 54.4–.20 35.85N 141.39E 0 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ30.00000°,λ-17.00000°. NP2:ϕ_s120.00000°,δ81.00000°,λ-119.00000°. $M_0$1.03000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=168.9.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.3km az=135.0.
MOS Error ellipse: s-maj=9.9km s-min=5.6km az=117.9.
IDC Error ellipse: s-maj=16.0km s-min=12.5km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 10 02 52 21.9–.10 38.15N 141.98E 37–1 4.0
¶600610947
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 10 03 18 55.8–3.5 36.28N–.04 141.88E–.07 16–22 3.6b 32 1-147
IDC V 10 03 18 53.3–.92 36.14N 142.01E 0 3.7,3.6 ¶17203165
ISCJB V 10 03 18 55.7–1.9 36.25N–.03 141.93E–.06 28–15 3.4b,3.6
JMA V 10 03 18 56.4–.20 36.25N 141.88E 62 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=20.4km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=12.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 10 04 02 21.4–1.6 36.0N–.10 140.42E–.08 35 3.2b 11 0-56
ISCJB V 10 04 02 19.9–1.3 35.88N–.07 140.45E–.08 35 3.2b ¶17203168
IDC V 10 04 02 19.4–6.8 37.26N 140.44E 103–49 3.4,3.2
JMA V 10 04 02 20.9–.10 35.90N 140.36E 37–1 3.3,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=9.1km az=155.3.
IDC Error ellipse: s-maj=66.2km s-min=25.7km az=65.0.
JMA Event type fe.
JMA V 10 05 03 18.3–.10 36.75N 141.27E 48–2 2.9
¶600610981
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 05 22 06.8–2.7 35.80N–.06 141.1E–.10 3–14 13 0-56
NIED V 10 05 22 00 35.70N 140.90E 8 3.4W ¶17203177
IDC V 10 05 22 08.6–3.1 36.29N 141.09E 0 3.5,3.4b
JMA V 10 05 22 09.0–.20 35.74N 140.94E 12–1 3.5,3.4b
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ47.00000°,λ-165.00000°. NP2:ϕ_s55.00000°,δ79.00000°,λ-44.00000°. $M_0$1.36000×10^{14}
IDC Error ellipse: s-maj=80.9km s-min=31.8km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 10 05 40 32.6–.66 37.61N–.04 141.52E–.07 48–6 3.9b 45 1-146
NIED V 10 05 40 00 37.60N 141.50E 53 4.0W ¶16560948
ISCJB V 10 05 40 31.3–.75 37.58N–.04 141.52E–.09 56–5 4.0b,3.8s
JMA V 10 05 40 32.2–.10 37.60N 141.52E 45–2 4.0,3.8s
IDC V 10 05 40 33.1–.59 37.60N 141.41E 53–6 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ24.00000°,λ106.00000°. NP2:ϕ_s21.00000°,δ67.00000°,λ83.00000°. $M_0$9.63000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.1km az=13.7.
JMA Event type fe.
IDC Error ellipse: s-maj=15.4km s-min=14.5km az=112.0.
ISC V 10 06 52 22.3–.98 38.18N–.05 142.00E–.06 10 3.4b 19 1-89
NIED V 10 06 52 00 38.20N 142.20E 5 3.5W ¶17203185
ISCJB V 10 06 52 20.8–.92 38.18N–.04 142.10E–.07 10 3.5b
JMA V 10 06 52 20.2–.10 38.18N 142.15E 14–1 4.0
IDC V 10 06 52 21.4–1.2 37.96N 142.24E 0 3.7,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ45.00000°,λ-69.00000°. NP2:ϕ_s328.00000°,δ49.00000°,λ-109.00000°. $M_0$1.83000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=15.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=37.0km s-min=26.7km az=133.0.
ISC V 10 07 31 56.7–.43 35.18N–.04 141.37E–.06 27 4.2b 84 1-148
NIED V 10 07 31 00 35.20N 141.30E 23 4.1W ¶16560949
IDC V 10 07 31 53.4–.57 35.14N 141.17E 0 4.3,4.1
JMA V 10 07 31 55.3–.20 35.18N 141.33E 27–3 3.7,4.1
ISCJB V 10 07 31 55.3–.35 35.15N–.03 141.33E–.06 27 4.3b,4.1
MOS V 10 07 31 56.2–1.4 35.28N 141.37E 33 4.7b,4.1
NEIC V 10 07 31 58.4–.27 35.08N 141.19E 35 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ28.00000°,λ134.00000°. NP2:ϕ_s57.00000°,δ70.00000°,λ70.00000°. $M_0$1.74000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=13.6km az=103.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.6km az=0.9.
MOS Error ellipse: s-maj=11.0km s-min=6.4km az=107.4.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.7km az=72.0.
JMA V 10 08 54 11.5 36.74N 140.64E 5–1 1.4
¶603241694
JMA V 10 08 54 22.3–.10 38.47N 142.07E 28–2 1.9
¶603742743
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 10 10 14 07.0–.40 37.33N 141.84E 0 2.5
¶602919051
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 10 10 14 41.2–.54 36.28N–.03 141.70E–.04 27–3 5.4s,5.1b 777 1-150
NIED V 10 10 14 00 36.30N 142.00E 20 5.3W,5.1b ¶16502622
IDC V 10 10 14 36.7–.40 36.22N 141.77E 0 5.0s,5.0
BJI V 10 10 14 38.8 36.32N 141.60E 24 5.7b,5.4s
JMA V 10 10 14 38.8–.30 36.23N 141.86E 58 5.4,5.4s
ISCJB V 10 10 14 40.0–.73 36.25N–.02 141.66E–.02 29–5 5.3s,5.0b
MOS V 10 10 14 41.7–.85 36.60N 141.62E 29 5.4b,5.0b
NEIC V 10 10 14 43.2–.53 36.24N 141.61E 41–4 5.1b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ18.00000°,λ89.00000°. NP2:ϕ_s19.00000°,δ72.00000°,λ90.00000°. $M_0$1.08000×10^{17}
IDC Error ellipse: s-maj=12.8km s-min=9.3km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=148.2.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=108.3.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=137.0. Recorded [3 JMA] in Ibaraki.
ISC V 10 10 18 40.1–.50 36.11N–.05 142.00E–.06 23 4.3b 57 1-147
IDC V 10 10 18 37.3–.60 36.18N 141.88E 0 4.4,4.2 ¶16560951
ISCJB V 10 10 18 38.6–.41 36.18N–.04 141.96E–.05 23 4.2b,4.2
JMA V 10 10 18 40.3–.30 36.24N 141.85E 56 4.0,4.2
NEIC V 10 10 18 42.3–.39 36.14N 141.87E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=15.0km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=40.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.3km az=112.0.
ISC V 10 10 36 35.9–1.8 36.14N–.04 141.95E–.05 0–11 4.3b 61 1-147
IDC V 10 10 36 36.1–.66 36.12N 141.81E 0 4.2,4.1 ¶16560954
JMA V 10 10 36 38.3–.20 36.23N 141.93E 41 4.4,4.1
NEIC V 10 10 36 39.7–2.7 36.11N 141.88E 24–19 5.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=14.9km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.0km az=75.0.
ISC V 10 10 40 57.0–.98 36.19N–.07 141.94E–.09 23 3.7b 23 1-147
IDC V 10 10 40 54.3–1.3 36.19N 141.96E 0 3.7,3.6 ¶17203237
ISCJB V 10 10 40 55.8–.77 36.19N–.06 141.99E–.07 23 3.6b,3.6
JMA V 10 10 40 56.4–.20 36.20N 141.98E 53 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=22.5km az=155.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.7km az=45.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 10 10 42 20.2–.30 36.63N 141.96E 39 3.5
¶600611168
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 10 10 57 37.1–.10 37.09N 141.29E 30–1 2.2
¶603241695
ISC V 10 11 16 03.1–1.5 36.24N–.06 141.8E–.10 23 19 1-56
IDC V 10 11 15 59.5–3.4 36.23N 141.96E 0 3.5,3.5L ¶17203243
ISCJB V 10 11 16 02.0–1.1 36.23N–.05 141.81E–.09 23 3.3b,3.5L
JMA V 10 11 16 02.4–.20 36.22N 141.84E 53 3.4,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=91.3km s-min=32.9km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.1km az=9.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 11 29 12.7–2.2 38.57N–.05 142.42E–.07 0–14 4.2b 32 1-89
IDC V 10 11 29 11.8–.90 37.73N 143.66E 0 4.4,4.3b ¶16709425
NEIC V 10 11 29 14.5–.49 37.93N 143.57E 10 4.6b,4.3b
JMA V 10 11 29 19.1–.10 38.77N 142.21E 36–2 3.0,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=15.9km az=162.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.4km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 10 13 13 43.6–1.9 35.67N–.05 141.16E–.08 18–8 3.5b 19 0-59
NIED V 10 13 13 00 35.60N 141.00E 11 3.7W ¶17203266
IDC V 10 13 13 43.2–1.7 35.57N 141.01E 0 3.6,3.5
ISCJB V 10 13 13 44.3–1.1 35.65N–.05 141.12E–.09 24–6 3.6b,3.5
JMA V 10 13 13 45.5–.20 35.63N 141.03E 17–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ43.00000°,λ-42.00000°. NP2:ϕ_s312.00000°,δ63.00000°,λ-125.00000°. $M_0$4.59000×10^{14}
IDC Error ellipse: s-maj=46.7km s-min=21.9km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=7.7km az=170.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 10 13 22 54.0–.10 38.22N 141.72E 52–1 3.5
¶600611237
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 10 14 03 45.3–2.7 39.6N–.10 142.83E–.09 10–13 3.6b 16 1-72
NIED V 10 14 03 00 39.60N 142.80E 11 3.6W ¶17203275
JMA V 10 14 03 45.7–.20 39.57N 142.81E 14–2 3.5
IDC V 10 14 04 35.8–7.9 39.23N 141.22E 478–99 3.6,2.9

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ70.00000°,λ-171.00000°. NP2:ϕ_s221.00000°,δ82.00000°,λ-20.00000°. $M_0$3.25000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.4km s-min=19.7km az=83.0.
IDC V 10 14 04 53.9–5.0 38.06N 142.42E 0 3.6,3.5 ¶17203278
IDC Error ellipse: s-maj=92.2km s-min=33.3km az=91.0.
ISC V 10 14 35 28.5–2.4 38.77N–.04 142.38E–.07 5–15 4.0b 34 1-63
IDC V 10 14 35 26.9–1.8 38.67N 142.79E 0 4.0b,3.9 **¶600611288**
NEIC V 10 14 35 32.1–.64 38.68N 142.65E 35 4.1b,3.9
JMA V 10 14 35 33.5–.10 38.88N 142.08E 48–1 3.7,3.9
ISC Event type se.
IDC Error ellipse: s-maj=39.4km s-min=22.6km az=78.0.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=7.1km az=97.0. Recorded [1 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 10 15 22 39.7–1.1 36.73N–.04 141.01E–.08 44–9 3.5b 30 0-60
NIED V 10 15 22 00 36.70N 140.90E 44 3.7W **¶17203290**
IDC V 10 15 22 33.2–1.0 36.60N 141.11E 0 4.0,4.0s
ISCJB V 10 15 22 38.2–.68 36.71N–.04 141.07E–.07 51–5 3.8s,3.5b
JMA V 10 15 22 39.7–.10 36.73N 140.93E 52–1 3.7,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ37.00000°,λ60.00000°. NP2:ϕ_s192.00000°,δ58.00000°,λ111.00000°. $M_0$3.77000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=20.3km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=20.8.
JMA Event type fe.
ISC V 10 15 56 36.2–1.2 35.74N–.05 140.71E–.09 45–11 3.5b 18 0-59
IDC V 10 15 56 28.8–2.8 35.85N 141.13E 0 3.5,3.3 **¶17203300**
ISCJB V 10 15 56 34.7–1.0 35.75N–.06 140.8E–.10 52–7 3.3b,3.3
JMA V 10 15 56 35.9–.10 35.74N 140.64E 45–1 2.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=71.0km s-min=25.0km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=7.4km az=156.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 10 16 00 51.4–1.5 38.09N–.05 141.8E–.10 46–16 3.4b 24 0-62
ISCJB V 10 16 00 50.8–.87 38.09N–.05 141.75E–.10 59–9 3.5b **¶17203303**
JMA V 10 16 00 51.4 38.11N 141.72E 56–1 3.2
IDC V 10 16 00 56.1–2.9 36.41N 141.68E 0 3.3,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=6.1km az=22.2.
IDC Error ellipse: s-maj=79.4km s-min=29.6km az=54.0.
ISC V 10 16 23 02.3–2.3 36.29N–.08 141.9E–.10 19 3.2b 12 1-64
IDC V 10 16 22 59.0–1.3 37.02N 142.26E 0 3.5,3.4L **¶17203305**
JMA V 10 16 23 03.0–.30 36.21N 141.79E 67 3.1,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=33.5km s-min=26.6km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 10 16 52 01.7–1.0 38.88N–.06 142.35E–.07 27 3.6b 20 1-82
ISCJB V 10 16 51 59.7–.75 38.81N–.05 142.50E–.06 27 3.6b,3.4s **¶17203310**
NIED V 10 16 52 00 38.90N 142.40E 32 3.5W,3.4s
JMA V 10 16 52 01.0–.20 38.86N 142.45E 35–3 3.8,3.4s
IDC V 10 16 52 04.8–3.1 38.78N 142.44E 61–28 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.6km az=151.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ15.00000°,λ95.00000°. NP2:ϕ_s349.00000°,δ75.00000°,λ89.00000°. $M_0$2.07000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.7km s-min=18.3km az=97.0.
ISC V 10 17 02 16.1–.77 35.68N–.03 140.87E–.05 26–5 4.3b,4.1s 102 0-148
NIED V 10 17 02 00 35.70N 140.80E 38 4.4W,4.1s **¶600611375**
IDC V 10 17 02 12.6–.57 35.62N 140.83E 0 4.2,4.2
NEIC V 10 17 02 14.5–2.1 35.59N 140.83E 14–13 4.6b,4.2
JMA V 10 17 02 15.6–.10 35.67N 140.84E 28–1 4.1,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ17.00000°,λ-14.00000°. NP2:ϕ_s254.00000°,δ86.00000°,λ-107.00000°. $M_0$4.34000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=13.3km az=70.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=5.2km az=95.0. Recorded [2 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 10 18 24 17.4–.92 38.27N–.04 141.95E–.05 48–8 4.5b,3.5s 198 1-146
NIED V 10 18 24 00 38.30N 141.90E 47 4.5W,3.5s **¶16503598**
MOS V 10 18 24 13.9–1.1 38.26N 142.06E 33 4.8b,3.5s
ISCJB V 10 18 24 16.3–.47 38.29N–.03 141.96E–.04 53–3 4.6b,3.6s
JMA V 10 18 24 17.6–.10 38.30N 141.88E 47–1 4.2,3.6s
IDC V 10 18 24 18.4–1.9 38.30N 141.83E 51–16 4.2,4.1
NEIC V 10 18 24 19.4–.47 38.30N 141.87E 64–4 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ22.00000°,λ81.00000°. NP2:ϕ_s24.00000°,δ68.00000°,λ94.00000°. $M_0$5.79000×10^{15}
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=105.8.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.5km az=27.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=11.1km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=122.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC V 10 19 22 25.2–1.0 35.78N–.05 140.97E–.05 13–6 4.1b 51 0-75
NIED V 10 19 22 00 35.80N 141.00E 8 3.9W **¶16560962**
IDC V 10 19 22 23.2–1.1 35.64N 140.79E 0 3.9,3.8
ISCJB V 10 19 22 24.5–.69 35.79N–.04 141.02E–.05 19–5 4.3b,3.8
JMA V 10 19 22 25.1–.20 35.79N 140.98E 13–1 4.2,3.8
NEIC V 10 19 22 25.9–3.1 35.73N 140.95E 17–20 4.7b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ33.00000°,λ-120.00000°. NP2:ϕ_s25.00000°,δ62.00000°,λ-72.00000°. $M_0$9.24000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=23.1km az=167.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=6.6km az=146.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=8.1km az=108.0. Recorded [2 JMA] in Ibaraki.
JMA V 10 19 57 50.0–.10 37.25N 141.19E 36–1 2.2 ¶16506914
ISC V 10 19 58 10.2–1.0 38.89N–.04 142.00E–.07 52–7 4.5b 96 0-81
NIED V 10 19 58 00 38.90N 141.90E 47 4.0W **¶600611467**
ISCJB V 10 19 58 09.7–.54 38.90N–.03 141.95E–.06 61–3 4.5b
JMA V 10 19 58 10.8–.10 38.91N 141.94E 51–1 4.0
NEIC V 10 19 58 12.2–.61 38.91N 141.95E 68–5 4.6b
IDC V 10 19 58 12.2–2.0 38.92N 141.88E 63–17 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ20.00000°,λ93.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ89.00000°. $M_0$1.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.0km az=18.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=114.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=21.2km s-min=13.1km az=95.0.
ISC V 10 20 08 22.9–.93 35.55N–.04 140.09E–.05 71–7 3.7b 28 0-75
ISCJB V 10 20 08 21.8–.55 35.54N–.04 140.11E–.06 77–5 3.6b **¶17203319**
JMA V 10 20 08 22.3–.20 35.63N 140.10E 68–2 3.4
IDC V 10 20 08 22.3–3.3 35.54N 140.18E 68–26 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.2km az=146.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s15.00000°,δ71.00000°,λ110.00000°. NP2: ϕ_s147.00000°,δ28.00000°,λ45.00000°. Principal axes: T Plg59.0000°,Azm314.0000° ; N Plg19.0000°,Azm189.0000°; P Plg23.0000°,Azm90.0000°
IDC Error ellipse: s-maj=46.6km s-min=7.1km az=67.0.
ISC V 10 20 24 14.5–.95 35.66N–.03 141.14E–.04 11–5 4.5b,3.8s 222 0-148
NIED V 10 20 24 00 35.80N 141.10E 8 4.5W,3.8s **¶16503601**
IDC V 10 20 24 12.4–.54 35.56N 141.04E 0 4.4,4.4L
ISCJB V 10 20 24 13.5–.71 35.66N–.02 141.14E–.03 15–4 4.5b,3.8s
NEIC V 10 20 24 14.3–.25 35.58N 141.06E 10 4.6b,3.8s
JMA V 10 20 24 15.3–.10 35.67N 141.01E 23–1 4.7,3.8s
MOS V 10 20 24 16.1–1.5 35.70N 141.15E 33 4.8b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ56.00000°,λ-11.00000°. NP2:ϕ_s312.00000°,δ81.00000°,λ-146.00000°. $M_0$7.42000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=12.4km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.9km az=32.4.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=129.0. Felt at Narita. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s309.00000°,δ89.00000°,λ-140.00000°. NP2: ϕ_s218.00000°,δ50.00000°,λ-2.00000°. Principal axes: T Plg26.0000°,Azm76.0000° ; N Plg50.0000°,Azm310.0000°; P Plg28.0000°,Azm181.0000°
MOS Error ellipse: s-maj=8.6km s-min=5.0km az=99.9.
JMA V 10 20 54 40.7 36.96N 140.69E 9–1 2.6 ¶600611486
JMA V 10 21 09 21.2–.10 36.96N 141.22E 44–1 3.0 ¶600611488
ISC V 10 21 31 27.8–1.5 36.31N–.05 142.0E–.10 19 16 1-56
IDC V 10 21 31 25.1–3.0 36.31N 142.14E 0 3.6,3.5 **¶17203324**
ISCJB V 10 21 31 26.6–1.1 36.28N–.05 142.08E–.09 19 3.5b,3.5
JMA V 10 21 31 28.9–.30 36.29N 141.87E 73 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=63.5km s-min=31.6km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.7km az=174.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 10 23 13 22.9–1.1 35.78N–.05 140.89E–.09 15–6 3.5b 15 0-56
IDC V 10 23 13 20.8–1.4 35.65N 140.92E 0 3.7,3.5b **¶17203329**
ISCJB V 10 23 13 21.8–1.1 35.78N–.05 141.02E–.09 18–6 3.5b,3.5b
JMA V 10 23 13 22.8–.10 35.79N 140.96E 13–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=26.3km az=41.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=8.0km az=162.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 11 00 35 21.7–1.5 39.09N–.04 142.38E–.07 18–4 3.8b 24 1-73
NIED V 11 00 35 00 39.10N 142.40E 35 3.7W **¶17203337**
JMA V 11 00 35 22.1–.10 39.12N 142.41E 33–2 3.9
IDC V 11 00 35 27.4–3.8 39.03N 142.27E 73–34 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ12.00000°,λ-169.00000°. NP2:ϕ_s181.00000°,δ88.00000°,λ-78.00000°. $M_0$4.40000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=34.2km s-min=20.2km az=86.0.
ISC V 11 00 50 49.1–.84 38.17N–.05 141.76E–.08 45–5 3.7b 35 0-89
NIED V 11 00 50 00 38.20N 141.70E 47 3.8W **¶16560022**
ISCJB V 11 00 50 48.7–.79 38.17N–.04 141.72E–.09 56–6 3.8b
JMA V 11 00 50 49.6–.10 38.17N 141.68E 51–1 3.9
IDC V 11 00 50 51.8–1.2 38.12N 141.64E 71–8 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ17.00000°,λ114.00000°. NP2:ϕ_s21.00000°,δ75.00000°,λ83.00000°. $M_0$5.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=5.4km az=24.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=20.2km az=125.0.
ISC V 11 03 52 08.1–2.2 36.26N–.04 141.9E–.10 39–8 22 1-56
NIED V 11 03 52 00 36.30N 141.90E 8 3.8W **¶17203351**
ISCJB V 11 03 52 07.0–1.1 36.24N–.04 141.9E–.10 50–16 3.5b
JMA V 11 03 52 06.8–.20 36.25N 141.85E 59 3.5
IDC V 11 03 52 07.9–4.2 35.53N 141.41E 0 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ16.00000°,λ-21.00000°. NP2:ϕ_s249.00000°,δ85.00000°,λ-105.00000°. $M_0$5.62000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.6km az=177.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=112.4km s-min=30.6km az=57.0.
JMA V 11 07 11 04.2–.10 38.52N 142.04E 40–1 3.6
NIED V 11 07 11 00 38.50N 142.00E 65 4.1W **¶600611660**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ20.00000°,λ-104.00000°. NP2:ϕ_s345.00000°,δ71.00000°,λ-85.00000°. $M_0$1.36000×10^{15}
JMA V 11 07 48 37.6–.10 36.75N 141.20E 30–1 2.8 ¶600611671
ISC V 11 08 02 14.9–3.7 38.02N–.09 143.0E–.20 35 15 1-58
IDC V 11 08 02 08.4–1.5 36.79N 143.48E 0 3.9,3.6b **¶17203368**
JMA V 11 08 02 11.2–.40 37.93N 143.06E 37 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=27.5km az=137.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC V 11 08 38 28.7–2.0 36.72N–.05 141.93E–.08 12–11 3.5b 23 1-61
IDC V 11 08 38 27.0–1.2 36.73N 142.08E 0 3.7,3.7L **¶17203370**
JMA V 11 08 38 31.4–.20 36.74N 141.85E 50–4 3.7,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=23.2km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 11 10 44 39.0–2.2 38.23N–.05 142.40E–.08 11–12 3.7b 32 1-89
NIED V 11 10 44 00 38.30N 142.30E 32 3.6W **¶17203382**
JMA V 11 10 44 42.4–.10 38.30N 142.23E 40–2 4.0
IDC V 11 10 44 44.4–2.6 38.20N 142.32E 52–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ25.00000°,λ-111.00000°. NP2:ϕ_s42.00000°,δ67.00000°,λ-80.00000°. $M_0$2.62000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=16.9km az=91.0.
ISC V 11 10 51 07.2–.89 38.01N–.05 142.57E–.07 14 3.6b 29 1-63
NIED V 11 10 51 00 38.10N 142.50E 35 3.8W **¶17203383**
ISCJB V 11 10 51 05.6–.62 38.02N–.05 142.67E–.07 14 3.6b
JMA V 11 10 51 08.0–.20 38.06N 142.54E 36–3 4.1
IDC V 11 10 51 10.9–3.2 38.02N 142.57E 38–28 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ40.00000°,λ153.00000°. NP2:ϕ_s353.00000°,δ73.00000°,λ53.00000°. $M_0$5.69000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.7km az=25.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=15.5km az=94.0.
ISC V 11 10 53 00.1–1.7 40.34N–.05 142.42E–.08 28–12 3.9b 22 1-66
NIED V 11 10 53 00 40.30N 142.30E 62 4.2W **¶17203384**
IDC V 11 10 53 02.9–3.3 40.36N 142.38E 55–26 3.7,3.5
JMA V 11 10 53 02.6–.10 40.29N 142.28E 37–1 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ29.00000°,λ134.00000°. NP2:ϕ_s16.00000°,δ70.00000°,λ69.00000°. $M_0$1.88000×10^{15}
IDC Error ellipse: s-maj=42.9km s-min=28.5km az=134.0.
JMA Event type fe.
ISC V 11 12 16 28.2–.65 35.74N–.04 140.98E–.05 21–2 3.7b 29 0-148
NIED V 11 12 16 00 35.90N 141.00E 32 3.9W **¶17203390**
IDC V 11 12 16 24.8–.76 35.77N 141.20E 0 3.8,3.7L
ISCJB V 11 12 16 27.8–.90 35.85N–.04 141.10E–.08 29–5 3.6b,3.4s
JMA V 11 12 16 29.8–.10 35.82N 140.92E 29–1 3.4,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ2.00000°,λ20.00000°. NP2:ϕ_s90.00000°,δ89.00000°,λ92.00000°. $M_0$7.91000×10^{14}
IDC Error ellipse: s-maj=22.8km s-min=14.6km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.3km az=175.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 11 13 03 07.7–1.8 38.47N–.04 141.99E–.08 24–14 3.5b 24 1-62
NIED V 11 13 03 00 38.50N 142.10E 32 3.5W **¶17203393**
IDC V 11 13 03 04.2–1.8 38.19N 142.72E 0 3.6,3.6
ISCJB V 11 13 03 06.3–1.3 38.45N–.04 142.18E–.09 30–7 3.5b,3.6

JMA V 11 13 03 08.6–.10 38.53N 142.06E 34–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ40.00000°,λ-116.00000°. NP2:ϕ_s140.00000°,δ55.00000°,λ-70.00000°. $M_0$1.75000×10^{14}
IDC Error ellipse: s-maj=47.7km s-min=23.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.0km az=9.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 11 15 17 01.3–1.7 38.86N–.06 142.1E–.10 44–13 3.8b 20 0-59
ISCJB V 11 15 17 00.0–1.2 38.86N–.06 142.1E–.10 51–8 3.8b,3.7s **¶17203403**
NIED V 11 15 17 00 38.80N 142.10E 62 3.5W,3.7s
JMA V 11 15 17 01.1–.10 38.84N 142.06E 45–1 3.6,3.7s
IDC V 11 15 17 02.1–2.9 38.89N 142.22E 57–26 3.7,3.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=18.2km s-min=7.3km az=22.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ37.00000°,λ70.00000°. NP2:ϕ_s22.00000°,δ56.00000°,λ105.00000°. $M_0$1.88000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=41.7km s-min=18.0km az=95.0.
ISC V 11 16 39 59.0–1.1 37.56N–.04 141.78E–.08 45–10 3.6b 37 1-74
ISCJB V 11 16 39 58.0–.91 37.56N–.04 141.76E–.09 52–8 3.6b **¶17203411**
NIED V 11 16 40 00 37.60N 141.60E 38 3.8W
JMA V 11 16 40 00.1–.10 37.58N 141.60E 47–2 3.9
IDC V 11 16 40 01.3–2.3 37.59N 141.79E 67–21 3.7,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=5.9km az=15.2.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ14.00000°,λ39.00000°. NP2:ϕ_s202.00000°,δ81.00000°,λ101.00000°. $M_0$5.02000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=21.4km s-min=14.0km az=107.0.
JMA V 11 17 44 33.2–.10 39.04N 142.39E 32–2 3.5
¶600611952
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 11 18 14 45.6 36.71N 140.59E 8 1.2
¶600611959
ISC V 11 18 20 14.7–.56 35.64N–.05 140.71E–.07 45 4.5s,4.2b 46 0-81
ISCJB V 11 18 20 12.2–.42 35.64N–.03 140.89E–.06 45 4.5s,4.1b **¶16560034**
JMA V 11 18 20 15.4–.10 35.72N 140.60E 47–1 3.5,4.1b
NEIC V 11 18 20 17.6–1.2 35.61N 140.50E 68–10 4.8b,4.1b
IDC V 11 18 20 17.3–2.0 35.58N 140.39E 64–18 4.5s,4.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.8km az=168.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s5.00000°,δ76.00000°,λ97.00000°. NP2: ϕ_s157.00000°,δ15.00000°,λ63.00000°. Principal axes: T Plg58.0000°,Azm284.0000° ; N Plg7.0000°,Azm183.0000°; P Plg31.0000°,Azm89.0000°
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.0km az=75.0.
IDC Error ellipse: s-maj=17.1km s-min=13.3km az=70.0.
ISC V 11 18 21 47.5–.53 38.53N–.04 141.87E–.04 52–4 4.9b 398 0-155
NIED V 11 18 21 00 38.50N 141.80E 56 4.8W **¶16506303**
MOS V 11 18 21 46.1–.92 38.62N 141.85E 53 5.2b
ISCJB V 11 18 21 47.0–.39 38.55N–.02 141.78E–.04 56–2 5.2s,4.9b
JMA V 11 18 21 48.0–.10 38.53N 141.81E 50–1 4.6,4.9b
IDC V 11 18 21 48.5–.58 38.56N 141.70E 54–4 4.8,4.6
NEIC V 11 18 21 48.9–.66 38.51N 141.73E 60–6 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ19.00000°,λ86.00000°. NP2:ϕ_s21.00000°,δ71.00000°,λ91.00000°. $M_0$1.61000×10^{16}
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=99.2.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=30.5.
JMA Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=9.6km az=147.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=138.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC V 11 20 08 14.6–1.8 37.17N–.04 141.39E–.06 8–11 26 0-57
ISCJB V 11 20 08 14.8–1.1 37.15N–.04 141.44E–.06 17–7 3.5b **¶17203430**
JMA V 11 20 08 17.4–.10 37.18N 141.26E 31–1 3.4
IDC V 11 20 08 19.7–3.9 37.04N 141.43E 42–40 3.5,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=5.3km az=22.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=17.1km az=63.0.
ISC V 11 20 46 57.9–1.4 39.62N–.04 142.13E–.09 47–9 3.6b 22 0-60
ISCJB V 11 20 46 57.0–.92 39.65N–.04 142.2E–.10 52–6 3.3b **¶17203434**
JMA V 11 20 46 58.0 39.63N 142.11E 48–1 3.3
IDC V 11 20 47 02.2–2.3 39.92N 141.56E 49–27 3.3,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=6.1km az=8.4.
JMA Event type fe.
IDC Error ellipse: s-maj=42.2km s-min=17.6km az=99.0.
JMA V 12 00 06 08.5–.20 37.56N 142.00E 28–4 3.6
NIED V 12 00 06 00 37.60N 142.00E 11 3.3W **¶600612132**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s294.00000°,δ39.00000°,λ-68.00000°. NP2:ϕ_s87.00000°,δ54.00000°,λ-107.00000°. $M_0$1.18000×10^{14}
ISC V 12 01 47 27.5–1.1 36.30N–.04 140.90E–.05 30–8 3.7b 28 0-75
NIED V 12 01 47 00 36.30N 140.80E 41 3.7W **¶17203447**
ISCJB V 12 01 47 26.9–.58 36.31N–.04 140.88E–.06 41–6 3.6b
JMA V 12 01 47 27.8–.10 36.30N 140.82E 43–1 3.7
IDC V 12 01 47 29.1–1.9 36.23N 140.83E 43–19 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ5.00000°,λ-53.00000°. NP2:ϕ_s268.00000°,δ86.00000°,λ-93.00000°. $M_0$3.98000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.8km az=8.8.
JMA Event type fe.
IDC Error ellipse: s-maj=23.6km s-min=14.8km az=90.0.
JMA V 12 01 50 09.9–.10 36.18N 141.02E 39–1 3.5
¶600612186
JMA Event type fe.
ISC V 12 07 04 51.9–2.6 36.58N–.07 141.48E–.09 2–14 17 1-147
IDC V 12 07 04 51.4–1.5 36.47N 141.80E 0 3.5,3.3b **¶17203462**
ISCJB V 12 07 04 53.2–2.2 36.70N–.06 141.6E–.10 5–20 3.3b,3.3b
JMA V 12 07 04 56.1–.10 36.71N 141.45E 52–2 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=28.4km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=10.8km az=1.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 12 10 03 42.2–2.4 38.54N–.06 142.78E–.08 3–13 3.8b 24 1-62
NIED V 12 10 03 00 38.60N 142.80E 17 3.7W **¶600612448**
JMA V 12 10 03 42.0–.20 38.56N 142.85E 9–2 4.1
IDC V 12 10 03 45.4–7.4 38.50N 142.97E 32–55 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ21.00000°,λ-48.00000°. NP2:ϕ_s231.00000°,δ74.00000°,λ-105.00000°. $M_0$3.38000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=46.2km s-min=20.5km az=79.0.
JMA V 12 10 27 02.9–.10 35.53N 141.33E 23–1 3.6
NIED V 12 10 27 00 35.50N 141.30E 23 3.7W **¶600612464**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ46.00000°,λ-72.00000°. NP2:ϕ_s358.00000°,δ47.00000°,λ-108.00000°. $M_0$3.89000×10^{14}
JMA V 12 12 35 26.6–.10 37.62N 141.84E 18–2 3.5
¶600612510
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 12 12 41 21.8–1.7 38.36N–.05 142.0E–.10 60–10 4.0b 33 1-46
NIED V 12 12 41 00 38.40N 141.90E 68 3.7W **¶17203478**
ISCJB V 12 12 41 21.0–.91 38.36N–.04 141.95E–.10 71–5 3.9b
IDC V 12 12 41 21.4–3.0 38.41N 142.20E 71–22 4.1,3.8
JMA V 12 12 41 22.6–.10 38.37N 141.87E 65–1 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ34.00000°,λ14.00000°. NP2:ϕ_s43.00000°,δ82.00000°,λ123.00000°. $M_0$4.36000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.6km az=16.7.
IDC Error ellipse: s-maj=42.5km s-min=19.2km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 12 15 26 15.2–.61 36.36N–.03 141.04E–.04 28–3 4.5b,3.6s 221 0-147
NIED V 12 15 26 00 36.30N 141.10E 35 4.4W,3.6s **¶16509464**
MOS V 12 15 26 14.3–1.2 36.34N 141.11E 37 4.6b,3.6s
JMA V 12 15 26 15.2–.10 36.30N 141.03E 46–2 4.3,3.6s
ISCJB V 12 15 26 15.0–.46 36.34N–.02 141.09E–.04 43–3 4.4b,3.6s
NEIC V 12 15 26 17.6–.63 36.35N 141.01E 50–5 4.6b,3.6s
IDC V 12 15 26 18.4–1.6 36.26N 141.01E 58–15 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ19.00000°,λ180.00000°. NP2:ϕ_s11.00000°,δ90.00000°,λ71.00000°. $M_0$4.76000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.3km az=111.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=11.9.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=5.0km az=135.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=13.0km s-min=8.8km az=62.0.
JMA V 12 15 34 20.5–.10 36.36N 140.97E 38–1 2.9
¶600612602
ISC V 12 16 20 59.2–.45 39.65N–.03 142.22E–.04 50–3 4.8b,3.9s 439 0-145
NIED V 12 16 20 00 39.70N 142.10E 47 4.8W,3.9s **¶16506975**
MOS V 12 16 20 58.9–.95 39.77N 142.04E 52 5.1b,3.9s
ISCJB V 12 16 20 58.4–.32 39.65N–.02 142.15E–.03 54–2 4.8b,3.9s
JMA V 12 16 20 59.3 39.66N 142.14E 49–1 4.7,3.9s
IDC V 12 16 21 00.9–1.6 39.65N 142.01E 62–13 4.6,4.4
NEIC V 12 16 21 00.9–.56 39.66N 142.02E 63–5 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ17.00000°,λ117.00000°. NP2:ϕ_s8.00000°,δ75.00000°,λ82.00000°. $M_0$1.78000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=108.7.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=30.2.
JMA Event type fe.
IDC Error ellipse: s-maj=13.2km s-min=10.2km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.1km az=124.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC V 12 16 46 50.5–2.3 39.10N–.05 142.49E–.09 14–12 3.7b 22 1-73
NIED V 12 16 46 00 39.10N 142.40E 50 3.6W **¶600612638**
JMA V 12 16 46 53.9–.10 39.13N 142.37E 34–1 3.5
IDC V 12 16 46 57.2–3.4 39.09N 142.45E 68–27 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ33.00000°,λ-59.00000°. NP2:ϕ_s142.00000°,δ62.00000°,λ-109.00000°. $M_0$2.65000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.2km s-min=22.6km az=88.0.
ISC V 12 17 21 51.5–1.3 35.92N–.07 141.78E–.09 23 11 1-56
IDC V 12 17 21 49.9–2.2 35.96N 142.08E 0 3.7,3.5 **¶17203488**
ISCJB V 12 17 21 53.5–1.8 35.8N–.10 141.7E–.20 23 3.5b,3.5
JMA V 12 17 21 56.9–.40 35.79N 141.40E 22–3 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=51.2km s-min=30.6km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=14.9km az=162.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 12 19 52 19.0–.87 35.80N–.04 140.73E–.08 48–8 3.6b 24 0-75
NIED V 12 19 52 00 35.70N 140.80E 50 4.0W **¶600612722**
ISCJB V 12 19 52 17.5–.62 35.82N–.04 140.81E–.10 57–4 3.6b,2.8s
IDC V 12 19 52 18.7–2.7 35.85N 140.81E 52–21 3.7,3.5
JMA V 12 19 52 18.4–.10 35.75N 140.66E 49–1 3.4,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ23.00000°,λ26.00000°. NP2:ϕ_s3.00000°,δ80.00000°,λ111.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=6.2km az=172.7.
IDC Error ellipse: s-maj=35.8km s-min=12.1km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 12 20 03 04.7–.71 38.81N–.05 142.03E–.08 51 3.8b 33 0-81
NIED V 12 20 03 00 38.80N 142.10E 50 3.9W **¶17203500**
ISCJB V 12 20 03 02.9–.56 38.83N–.05 142.12E–.07 51 3.8b,2.8s
JMA V 12 20 03 03.8–.10 38.84N 142.10E 44–1 3.8,2.8s
IDC V 12 20 03 05.7–2.2 38.82N 142.07E 60–19 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ25.00000°,λ65.00000°. NP2:ϕ_s21.00000°,δ68.00000°,λ101.00000°. $M_0$7.71000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.8km az=34.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=13.1km az=109.0.
ISC V 12 20 24 34.9–2.1 38.60N–.06 142.1E–.10 45–15 3.5b 22 1-73
NIED V 12 20 24 00 38.60N 141.90E 47 3.6W **¶17203503**
IDC V 12 20 24 23.8–4.7 38.53N 143.12E 0 3.8b,3.7
ISCJB V 12 20 24 36.0–1.4 38.65N–.06 141.9E–.10 54–6 3.6b,3.7
JMA V 12 20 24 36.6–.10 38.64N 141.91E 48–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ22.00000°,λ57.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ102.00000°. $M_0$3.30000×10^{14}
IDC Error ellipse: s-maj=84.5km s-min=37.7km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=19.7km s-min=7.7km az=16.5.
JMA Event type fe.
ISC V 12 20 52 10.4–.71 35.55N–.05 140.07E–.06 72–6 4.3b 69 0-148
NIED V 12 20 52 00 35.60N 140.10E 65 4.4W **¶16560045**
ISCJB V 12 20 52 09.3–.42 35.55N–.04 140.08E–.06 78–3 4.2b
NEIC V 12 20 52 09.1–.80 35.58N 140.14E 60–7 4.6b
JMA V 12 20 52 09.7–.30 35.66N 140.06E 70–3 4.1
IDC V 12 20 52 10.7–1.4 35.50N 139.95E 72–14 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ44.00000°,λ20.00000°. NP2:ϕ_s29.00000°,δ76.00000°,λ132.00000°. $M_0$4.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.1km az=158.2.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.9km az=83.0. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama and Tokyo.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000°,δ76.00000°,λ106.00000°. NP2: ϕ_s129.00000°,δ21.00000°,λ42.00000°. Principal axes: T Plg56.0000°,Azm290.0000° ; N Plg16.0000°,Azm175.0000°; P Plg29.0000°,Azm76.0000°
IDC Error ellipse: s-maj=17.3km s-min=9.6km az=75.0.
JMA V 12 21 34 29.7–.20 36.71N 141.43E 45–2 3.2
¶600612769
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 12 22 36 06.9–1.0 36.60N–.05 140.66E–.05 10–6 3.5b 23 0-78
ISCJB V 12 22 36 06.3–1.0 36.59N–.05 140.73E–.07 13–4 3.5b **¶16507992**
IDC V 12 22 36 06.2–.94 36.82N 140.62E 0 3.8,3.6
JMA V 12 22 36 08.4 36.67N 140.60E 6–1 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.9km az=41.7.
IDC Error ellipse: s-maj=22.6km s-min=18.9km az=92.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s351.00000°,δ53.00000°,λ-90.00000°. NP2:ϕ_s171.00000°,δ37.00000°,λ-90.00000°. Principal axes: T Plg8.0000°,Azm81.0000°; N Plg0.0000°,Azm171.0000°; P Plg82.0000° ,Azm261.0000°
JMA V 12 23 11 35.5–.10 37.91N 141.80E 52–1 3.8
NIED V 12 23 11 00 37.90N 141.80E 65 3.8W **¶600612820**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ34.00000°,λ43.00000°. NP2:ϕ_s78.00000°,δ68.00000°,λ116.00000°. $M_0$6.60000×10^{14}
ISC V 12 23 35 54.8–2.3 36.1N–.40 140.04E–.09 51–10 3.4b 12 0-92
NIED V 12 23 35 00 36.20N 140.10E 68 3.8W **¶17203514**
IDC V 12 23 35 50.7–2.8 36.84N 140.19E 0 3.7,3.5
ISCJB V 12 23 35 54.6–1.5 36.2N–.40 140.0E–.10 58–5 3.3b,3.5
JMA V 12 23 35 55.4–.10 36.17N 140.10E 50–1 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ26.00000°,λ148.00000°. NP2:ϕ_s58.00000°,δ77.00000°,λ68.00000°. $M_0$5.06000×10^{14}

IDC Error ellipse: s-maj=70.8km s-min=32.9km az=165.0.
ISCJB Event type fe. Error ellipse: s-maj=74.1km s-min=10.8km az=9.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s42.00000°,δ73.00000°,λ85.00000°. NP2: ϕ_s238.00000°,δ18.00000°,λ105.00000°. Principal axes: T Plg62.0000°,Azm305.0000° ; N Plg5.0000°,Azm44.0000°; P Plg28.0000°,Azm136.0000°

ISC V 13 02 29 48.8–.65 38.68N–.06 142.08E–.07 41 3.8b 33 1-145
NIED V 13 02 29 00 38.70N 142.20E 44 3.9W **¶16560047**
ISCJB V 13 02 29 47.3–.52 38.68N–.04 142.21E–.05 41 3.8b
JMA V 13 02 29 47.8–.10 38.66N 142.17E 38–2 3.9
IDC V 13 02 29 51.1–2.3 38.67N 142.05E 63–19 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ30.00000°,λ55.00000°. NP2:ϕ_s17.00000°,δ66.00000°,λ109.00000°. $M_0$8.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.2km az=142.3.
JMA Event type fe.
IDC Error ellipse: s-maj=20.4km s-min=14.1km az=127.0.

JMA V 13 02 45 05.6–.10 37.19N 141.40E 48–1 3.5 ¶600612946

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC V 13 03 47 36.2–2.0 37.55N–.04 141.89E–.06 16–12 3.4b 27 1-146
NIED V 13 03 47 00 37.60N 141.80E 44 3.7W **¶17203521**
ISCJB V 13 03 47 34.8–1.3 37.54N–.04 141.97E–.07 15–8 3.4b
IDC V 13 03 47 34.1–.98 37.53N 141.98E 0 3.7,3.6L
JMA V 13 03 47 37.5–.10 37.58N 141.84E 32–3 3.8,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ17.00000°,λ70.00000°. NP2:ϕ_s336.00000°,δ74.00000°,λ96.00000°. $M_0$3.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.4km az=24.0.
IDC Error ellipse: s-maj=32.0km s-min=19.7km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 13 04 40 35.9–2.4 39.50N–.05 142.60E–.09 1–14 3.8b 23 1-72
JMA V 13 04 40 38.3–.10 39.53N 142.62E 27–1 3.8 **¶17203524**
IDC V 13 04 40 39.0–.90 40.00N 142.40E 0 3.9,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.3km s-min=18.9km az=91.0.

ISC V 13 04 52 45.3–.92 35.22N–.06 141.51E–.08 27 3.7b 22 1-148
IDC V 13 04 52 42.4–.92 35.24N 141.48E 0 4.0,3.8 **¶16587329**
ISCJB V 13 04 52 43.9–.70 35.16N–.05 141.54E–.08 27 3.8b,3.8
JMA V 13 04 52 44.9–.30 35.15N 141.43E 17–4 3.3,3.8
NEIC V 13 04 52 47.3–.58 35.32N 141.51E 35 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=19.9km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.8km az=150.9.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.4km az=79.0.

JMA V 13 06 19 25.5–.20 37.11N 141.81E 29–3 3.5 ¶600613041

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC V 13 06 28 10.5–.78 35.17N–.05 141.39E–.07 27 3.8b 23 1-79
IDC V 13 06 28 06.8–.80 35.10N 141.45E 0 4.1,3.8 **¶16577291**
ISCJB V 13 06 28 08.7–.56 35.17N–.05 141.45E–.06 27 3.9b,2.6s
JMA V 13 06 28 09.2–.30 35.15N 141.39E 13–5 3.3,2.6s
NEIC V 13 06 28 11.8–.64 35.17N 141.40E 35 4.5b,2.6s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=20.2km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.6km az=168.4.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=13.5km az=77.0.

ISC V 13 07 49 33.5–1.5 37.75N–.04 141.91E–.09 49–14 3.7b 42 1-89
NIED V 13 07 49 00 37.80N 141.80E 41 4.0W **¶17203531**
ISCJB V 13 07 49 33.0–.78 37.76N–.03 141.83E–.08 64–6 3.7b
JMA V 13 07 49 34.1 37.77N 141.78E 49–1 4.2
IDC V 13 07 49 35.9–2.3 37.79N 141.67E 72–21 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ38.00000°,λ81.00000°. NP2:ϕ_s37.00000°,δ52.00000°,λ97.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.2km az=15.1.
JMA Event type fe.
IDC Error ellipse: s-maj=25.4km s-min=16.0km az=93.0.

ISC V 13 08 26 29.8–.88 34.97N–.05 140.97E–.09 48 3.6b 17 0-79
IDC V 13 08 26 24.2–.93 34.89N 141.17E 0 3.6,3.5 **¶17203536**
JMA V 13 08 26 25.8–.20 35.06N 141.14E 47–4 2.9,3.5
ISCJB V 13 08 26 28.7–.71 34.90N–.06 140.92E–.09 48 3.5b,2.9s
ISC Event type ke.
ISCJB Event type ke.

ISC V 13 08 26 48.8–1.2 36.86N–.04 141.18E–.07 43–10 3.8b 34 0-78
NIED V 13 08 26 00 36.90N 141.10E 53 3.9W **¶600613114**
ISCJB V 13 08 26 47.9–.69 36.84N–.04 141.18E–.07 53–5 3.8b,2.2s
JMA V 13 08 26 49.7–.10 36.87N 141.06E 49–1 4.0,2.2s
IDC V 13 08 26 51.7–2.7 36.82N 140.98E 70–26 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ48.00000°,λ153.00000°. NP2:ϕ_s55.00000°,δ70.00000°,λ45.00000°. $M_0$8.69000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.0km s-min=16.4km az=78.0.

ISC V 13 08 36 03.0–.80 34.95N–.05 140.93E–.08 48 3.6b 21 0-79
IDC V 13 08 35 57.0–.82 35.03N 141.08E 0 3.8,3.6 **¶600613119**
JMA V 13 08 35 59.5–.20 35.05N 141.13E 44–4 3.3,3.6
ISCJB V 13 08 36 01.1–.61 34.95N–.05 140.97E–.07 48 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.

ISC V 13 12 19 12.2–1.2 35.41N–.03 140.99E–.05 14–7 4.2b,3.3s 72 0-148
NIED V 13 12 19 00 35.40N 141.10E 11 4.1W,3.3s **¶16510408**
IDC V 13 12 19 09.4–.63 35.36N 140.92E 0 4.2,4.1
ISCJB V 13 12 19 11.8–.73 35.41N–.03 141.03E–.05 21–5 4.2b,3.3s
JMA V 13 12 19 11.7–.10 35.44N 141.04E 24–1 4.3,3.3s
NEIC V 13 12 19 15.2–.42 35.38N 140.96E 35 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ43.00000°,λ-70.00000°. NP2:ϕ_s121.00000°,δ50.00000°,λ-108.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=14.2km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=8.2km az=152.0. Recorded [1 JMA] in Chiba.

ISC V 13 13 34 57.4–.74 37.77N–.04 141.94E–.06 24 3.7b 29 1-89
NIED V 13 13 34 00 37.80N 141.90E 41 3.8W **¶17203547**
IDC V 13 13 34 54.1–.76 37.70N 142.12E 0 3.9,3.8
ISCJB V 13 13 34 56.1–.55 37.78N–.04 142.02E–.05 24 3.7b,3.1s
JMA V 13 13 34 57.4–.10 37.76N 141.94E 31–3 3.9,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ36.00000°,λ-130.00000°. NP2:ϕ_s196.00000°,δ63.00000°,λ-65.00000°. $M_0$6.63000×10^{14}
IDC Error ellipse: s-maj=19.5km s-min=16.2km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.1km az=43.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 13 13 51 11.0–.99 35.80N–.04 141.03E–.06 24–6 4.0b,3.2s 52 0-148
NIED V 13 13 51 00 35.90N 141.10E 35 4.3W,3.2s **¶17203548**
IDC V 13 13 51 07.3–.56 35.72N 140.97E 0 4.1,4.0
ISCJB V 13 13 51 11.0–.89 35.77N–.03 141.04E–.05 33–6 4.0b,3.3s
JMA V 13 13 51 11.0–.10 35.81N 141.00E 28–1 4.2,3.3s
NEIC V 13 13 51 12.5–.42 35.76N 140.92E 35 4.4b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ23.00000°,λ51.00000°. NP2:ϕ_s106.00000°,δ73.00000°,λ105.00000°. $M_0$2.89000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=12.6km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.7km az=173.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=8.4km az=162.0. Recorded [2 JMA] in Chiba and Ibaraki.

ISC V 13 13 54 39.7–.00 35.81N–.06 140.93E–.08 25–6 3.7b 26 0-79
IDC V 13 13 54 35.3–.81 35.71N 141.04E 0 3.8,3.7 **¶600613330**
ISCJB V 13 13 54 38.1–.96 35.78N–.04 141.04E–.10 30–5 3.7b,3.7
JMA V 13 13 54 39.0–.10 35.80N 140.99E 27–1 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=15.9km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.1km az=174.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 13 14 21 36.6–1.6 37.59N–.05 141.86E–.08 41–14 3.7b 43 1-146
NIED V 13 14 21 00 37.60N 141.70E 44 3.8W **¶16560051**
ISCJB V 13 14 21 37.1–.79 37.62N–.04 141.72E–.08 59–6 3.8b,3.1s
JMA V 13 14 21 38.0–.10 37.61N 141.69E 48–2 3.9,3.1s
IDC V 13 14 21 40.4–2.4 37.61N 141.59E 73–23 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ49.00000°,λ54.00000°. NP2:ϕ_s52.00000°,δ52.00000°,λ124.00000°. $M_0$5.24000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=5.9km az=20.6.
JMA Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=16.4km az=85.0.

JMA V 13 14 31 13.5–.10 36.46N 141.61E 55–4 3.5
NIED V 13 14 31 00 36.50N 141.60E 32 3.5W **¶600613345**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ39.00000°,λ-58.00000°. NP2:ϕ_s93.00000°,δ58.00000°,λ-113.00000°. $M_0$1.77000×10^{14}

ISC V 13 15 31 16.6–1.5 38.42N–.05 142.5E–.10 24 21 1-69
IDC V 13 15 31 10.9–14 38.65N 142.92E 0 3.8,3.6b **¶17203556**
ISCJB V 13 15 31 15.4–1.2 38.38N–.05 142.6E–.10 24 3.8b,3.6s
JMA V 13 15 31 18.1–.10 38.39N 142.33E 37–2 3.4,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=299.4km s-min=59.5km az=2.0.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=6.1km az=170.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC V 13 16 28 02.9–1.1 36.76N–.04 140.46E–.04 6–7 4.4b 118 0-147
NIED V 13 16 28 00 36.70N 140.60E 5 4.2W **¶16510214**
IDC V 13 16 28 01.7–.60 36.72N 140.50E 0 4.3,4.1
ISCJB V 13 16 28 02.5–.54 36.76N–.03 140.54E–.04 14–3 4.4b,3.8s
JMA V 13 16 28 03.3 36.74N 140.59E 6–1 4.3,3.8s
NEIC V 13 16 28 07.3–.18 36.81N 140.46E 35 4.5b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ35.00000°,λ-75.00000°. NP2:ϕ_s165.00000°,δ56.00000°,λ-101.00000°. $M_0$1.88000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=14.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=40.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ51.00000°,λ-80.00000°. NP2:ϕ_s177.00000°,δ40.00000°,λ-103.00000°. Principal axes: T Plg6.0000°,Azm96.0000°; N Plg8.0000°,Azm187.0000°; P Plg80.0000° ,Azm330.0000°
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=147.0. Recorded [3 JMA] in Ibaraki.

ISC V 13 17 30 03.2–1.6 37.04N–.04 141.97E–.05 9–9 4.3b,3.1s 73 1-146
NIED V 13 17 30 00 37.10N 141.90E 32 3.8W,3.1s **¶16709791**
IDC V 13 17 30 01.4–.85 36.97N 142.05E 0 3.9,3.8
ISCJB V 13 17 30 03.0–1.0 37.02N–.03 142.03E–.04 23–7 4.5b,3.2s
JMA V 13 17 30 04.7–.20 37.05N 141.94E 28–4 4.1,3.2s
NEIC V 13 17 30 05.4–1.5 37.03N 141.99E 23–11 4.6b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ6.00000°,λ97.00000°. NP2:ϕ_s23.00000°,δ84.00000°,λ89.00000°. $M_0$5.36000×10^{14}
IDC Error ellipse: s-maj=20.8km s-min=16.2km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=174.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.2km az=121.0.

ISC V 13 17 59 52.4–1.1 38.98N–.05 142.3E–.10 39–8 3.6b 17 0-59
NIED V 13 17 59 00 39.10N 142.40E 35 3.9W **¶17203564**
ISCJB V 13 17 59 51.4–1.3 39.00N–.05 142.3E–.10 45–14 3.5b,3.3s
JMA V 13 17 59 51.0–.10 39.08N 142.39E 32–2 3.9,3.3s
IDC V 13 17 59 53.5–2.2 38.96N 142.42E 49–24 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ41.00000°,λ36.00000°. NP2:ϕ_s318.00000°,δ68.00000°,λ125.00000°. $M_0$7.82000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=17.0km s-min=7.2km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=14.7km az=105.0.

JMA V 13 18 11 31.8–.10 39.02N 142.40E 32–2 3.5 ¶600613463

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 13 19 51 45.8–1.9 37.06N–.05 141.40E–.07 9–11 3.7b,3.0s 25 0-147
NIED V 13 19 51 00 37.00N 141.40E 8 3.9W,3.0s **¶17203566**
ISCJB V 13 19 51 46.0–1.3 37.04N–.04 141.43E–.09 24–7 3.6b,3.0s
JMA V 13 19 51 47.0–.10 37.05N 141.36E 31–1 4.0,3.0s
IDC V 13 19 51 51.6–2.0 37.00N 141.15E 49–19 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ37.00000°,λ-90.00000°. NP2:ϕ_s199.00000°,δ53.00000°,λ-90.00000°. $M_0$8.27000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.6km az=10.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.2km s-min=12.9km az=85.0.

ISC V 13 20 17 36.8–1.3 37.66N–.04 141.79E–.08 51–10 4.2b,3.6s 128 1-146
NIED V 13 20 17 00 37.70N 141.80E 53 4.2W,3.6s **¶17203567**
ISCJB V 13 20 17 35.7–.59 37.66N–.03 141.82E–.05 58–4 4.3b,3.3s
JMA V 13 20 17 36.7 37.66N 141.77E 45–2 4.3,3.3s
NEIC V 13 20 17 37.9–.58 37.71N 141.79E 60–5 4.4b,3.3s
IDC V 13 20 17 38.9–2.0 37.66N 141.69E 69–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ30.00000°,λ66.00000°. NP2:ϕ_s24.00000°,δ63.00000°,λ103.00000°. $M_0$1.94000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=21.6.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=121.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
IDC Error ellipse: s-maj=15.4km s-min=11.5km az=96.0.

ISC V 13 21 01 34.6–1.9 35.30N–.05 141.66E–.08 13–10 3.6b 26 1-59
IDC V 13 21 01 32.6–1.1 35.30N 141.69E 0 3.6,3.5 **¶17203572**
ISCJB V 13 21 01 34.8–1.2 35.31N–.04 141.69E–.07 28–7 3.6b,2.8s
JMA V 13 21 01 35.8–.50 35.34N 141.65E 30 3.3,2.8s
ISC Event type ke.
IDC Error ellipse: s-maj=28.7km s-min=19.0km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.9km az=175.1.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.

ISC V 13 21 32 25.1–1.3 38.43N–.05 142.33E–.09 24 3.7b 22 1-62
NIED V 13 21 32 00 38.50N 142.40E 47 3.7W **¶17203573**
ISCJB V 13 21 32 23.7–.81 38.40N–.04 142.42E–.07 24 3.7b
JMA V 13 21 32 25.5–.10 38.47N 142.36E 34–2 3.8
IDC V 13 21 32 28.0–2.9 38.38N 142.42E 46–24 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ43.00000°,λ49.00000°. NP2:ϕ_s157.00000°,δ59.00000°,λ121.00000°. $M_0$3.83000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.1km az=161.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=44.4km s-min=19.5km az=80.0.

ISC V 13 21 49 25.2–.66 35.96N–.03 141.10E–.04 14–3 4.8b,4.4s 363 0-152
NIED V 13 21 49 00 36.00N 141.20E 14 4.5W,4.4s **¶16509656**
IDC V 13 21 49 23.1–.43 35.96N 141.06E 0 4.7,4.7b
ISCJB V 13 21 49 24.8–.72 35.93N–.02 141.01E–.03 21–5 4.7b,4.4s
NEIC V 13 21 49 24.4–1.6 35.93N 140.99E 7–10 4.8b,4.4s
JMA V 13 21 49 25.2–.10 35.96N 141.10E 29–2 4.7,4.4s
MOS V 13 21 49 25.5–1.3 36.04N 141.13E 33 5.0b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s294.00000°,δ35.00000°,λ18.00000°. NP2:ϕ_s190.00000°,δ80.00000°,λ124.00000°. $M_0$6.71000×10^{15}

IDC Error ellipse: s-maj=11.9km s-min=9.9km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=4.0km az=6.4.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=125.0. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.7km az=104.8.

JMA	**V**	**13 23 17 10.5–.20**	**35.22N**	**140.22E**	**27–2**	**2.7**		
								¶600613643

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**13 23 35 52.9–.22**	**37.40N–.03**	**141.46E–.03**	**39–1**	**5.8s,5.6b**	**1979**	**0-164**
NIED	V	13 23 35 00	37.30N	141.60E	41	6.0W,5.6b		**¶16509660**
BJI	V	13 23 35 47.8	37.31N	141.73E	35	6.0s,5.9		
MOS	V	13 23 35 50.1–1.1	37.37N	141.49E	33	5.9s,5.8b		
JMA	V	13 23 35 50.9–.10	37.33N	141.63E	41–2	5.9,5.8b		
ISCJB	V	13 23 35 51.9–.28	37.40N–.01	141.42E–.01	40–2	5.8s,5.6b		
GCMT	V	13 23 35 52.9–.10	37.31N	141.67E	41–0	6.1W,5.6b		
NEIC	V	13 23 35 52.9–.10	37.40N	141.34E	35	6.1W,6.0W		
IDC	V	13 23 35 53.6–1.7	37.38N	141.52E	51–15	5.7,5.7		
NEIC	V	13 23 35 53.0–.00	37.18N	141.80E	37	5.7,5.7		
NEIC	V	13 23 36 10.1–.00	37.58N	141.54E	39	5.7,5.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s18.00000°,δ68.00000°,λ89.00000°. $M_0$1.28000×10^{18}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=97.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=154.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c302; s138,c464;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}1.23±.01 $M_{\theta\theta}$-0.14±.01; $M_{\phi\phi}$-1.09±.01; $M_{r\theta}$0.40±.01; $M_{\theta\phi}$-0.40±.01; $M_{\phi r}$1.06±.01; Best double couple: NP1:ϕ_s20.00000°,δ66.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ24.00000°,λ89.00000°. Principal axes: T 1.6710,Plg69.0000°,Azm291.0000° ; N 0.0070,Plg0.0000°,Azm200.0000°; P -1.6790,Plg21.0000°,Azm110.0000° $M_0$1.67500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=141.0. Felt [III] at Tokyo. Also felt at Atsugi, Hachioji, Ichinoseki, Kishiwada, Motegi, Narita, Nikko, Sakado, Yokohama and Yokosuka. Recorded [4 JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.90000×10^{18} Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}7.30 $M_{\theta\theta}$-1.07 $M_{\phi\phi}$-6.23 $M_{r\theta}$3.67 $M_{\theta\phi}$-0.86 $M_{\phi r}$5.53 Best double couple: NP1:ϕ_s180.00000°,δ25.00000°,λ67.00000°. NP2:ϕ_s25.00000°,δ67.00000°,λ100.00000°. Principal axes: T 10.2000,Plg66.0000°,Azm313.0000°; N -1.4000,Plg9.0000°,Azm201.0000° ; P -8.8000,Plg22.0000°,Azm107.0000° $M_0$9.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s171.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s25.00000°,δ75.00000°,λ100.00000°. Principal axes: T Plg59.0000°,Azm309.0000° ; N Plg0.0000°,Azm0.0000°; P Plg29.0000°,Azm107.0000°
IDC Error ellipse: s-maj=12.7km s-min=8.3km az=104.0.
NEIC Event type se. Moment Tensor Solution. s43 Moment tensor: Scale 10^{18}Nm; M_{rr}0.95 $M_{\theta\theta}$-0.33 $M_{\phi\phi}$-0.62 $M_{r\theta}$0.65 $M_{\theta\phi}$-0.31 $M_{\phi r}$1.37 Best double couple: NP1:ϕ_s26.00000° ,δ75.00000°,λ87.00000°. NP2:ϕ_s216.00000°,δ15.00000°,λ99.00000°. Principal axes: T 1.8200,Plg60.0000°,Azm292.0000°; N -0.1400,Plg2.0000°,Azm27.0000° ; P -1.6800,Plg29.0000°,Azm118.0000° $M_0$1.80000×10^{18}
NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}1.08 $M_{\theta\theta}$-0.31 $M_{\phi\phi}$-0.77 $M_{r\theta}$0.45 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.78 Best double couple: NP1:ϕ_s211.00000° ,δ25.00000°,λ90.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ90.00000°. Principal axes: T 1.4200,Plg70.0000°,Azm300.0000°; N -0.0700,Plg0.0000°,Azm30.0000° ; P -1.3400,Plg20.0000°,Azm120.0000° $M_0$1.40000×10^{18}

ISC	**V**	**13 23 40 36.0–1.1**	**37.29N–.04**	**141.74E–.05**	**19–4**	**4.4b**	**51**	**1-146**
JMA	V	13 23 40 38.9–.10	37.30N	141.62E	44–2	4.4		**¶16577297**
NEIC	V	13 23 40 39.4–1.6	37.32N	141.69E	45–14	4.6b		
IDC	V	13 23 40 40.6–2.4	37.18N	141.55E	58–23	4.3,4.2		

ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.8km s-min=10.9km az=120.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=18.3km s-min=13.7km az=94.0.

JMA	**V**	**14 00 19 32.5–.20**	**37.59N**	**141.82E**	**22–3**	**2.6**	
							¶17203578

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**14 00 19 49.9–2.4**	**37.31N–.05**	**141.7E–.10**	**29–13**		**19**	**1-57**
IDC	V	14 00 19 42.8–3.0	37.56N	142.37E	0	4.0,4.0s		**¶600613664**
ISCJB	V	14 00 19 49.7–2.0	37.31N–.05	141.7E–.10	26–8	4.0s,3.5b		
JMA	V	14 00 19 52.2–.10	37.30N	141.55E	45–2	3.4,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=69.5km s-min=36.9km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=7.9km az=12.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**14 00 25 10.4–1.9**	**37.24N–.04**	**141.79E–.05**	**23–13**	**4.3b**	**117**	**1-146**
ISCJB	V	14 00 25 10.3–1.0	37.24N–.03	141.75E–.04	33–6	4.2b		**¶600613665**
MOS	V	14 00 25 11.1–1.0	37.33N	141.71E	38	4.4b		
JMA	V	14 00 25 12.8–.10	37.30N	141.61E	45–2	4.3		
NEIC	V	14 00 25 13.0–.87	37.26N	141.70E	40–8	4.5b		
IDC	V	14 00 25 15.0–2.1	37.23N	141.52E	56–19	4.1,4.1		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=24.7.
MOS Error ellipse: s-maj=9.2km s-min=6.9km az=107.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.7km az=106.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=15.0km s-min=11.2km az=75.0.

JMA	**V**	**14 01 22 32.5–.10**	**37.75N**	**141.95E**	**16–3**	**3.8**		
								¶600613692

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**14 01 55 37.7–1.4**	**35.16N–.06**	**141.30E–.09**	**27**	**3.9b**	**15**	**1-59**
ISCJB	V	14 01 55 35.9–1.0	35.14N–.06	141.38E–.08	27	3.8b		**¶600613703**
JMA	V	14 01 55 35.5–.20	35.14N	141.45E	25–4	3.0		
IDC	V	14 01 55 43.3–2.0	34.24N	138.48E	0	3.8,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=8.3km az=165.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=77.4km s-min=22.1km az=75.0.

JMA	**V**	**14 02 17 56.5–.20**	**38.87N**	**142.91E**	**12–3**	**3.6**		
								¶600613723

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**V**	**14 02 37 20.0–.10**	**35.45N**	**140.90E**	**24–1**	**3.7**		
								¶600613730

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**14 03 39 27.2–1.9**	**37.41N–.04**	**141.75E–.06**	**11–11**	**3.7b**	**34**	**1-146**
NIED	V	14 03 39 00	37.50N	141.80E	5	3.7W		**¶600613751**
ISCJB	V	14 03 39 25.5–1.3	37.37N–.04	141.97E–.07	15–9	3.7b,3.2s		
IDC	V	14 03 39 25.9–.78	37.44N	141.83E	0	4.0,3.8		
JMA	V	14 03 39 28.0–.20	37.44N	141.84E	22–3	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ44.00000°,λ-146.00000°. NP2:ϕ_s82.00000°,δ67.00000°,λ-51.00000°. $M_0$3.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.5km az=24.6.
IDC Error ellipse: s-maj=20.9km s-min=17.9km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**V**	**14 05 05 10.1–.10**	**39.02N**	**142.52E**	**28–2**	**3.9**		
NIED	V	14 05 05 00	39.00N	142.50E	20	3.6W		**¶600613796**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ62.00000°,λ-8.00000°. NP2:ϕ_s223.00000°,δ83.00000°,λ-152.00000°. $M_0$3.17000×10^{14}

JMA	**V**	**14 05 16 52.5–.10**	**38.57N**	**142.02E**	**40–2**	**3.5**		
								¶600613799

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**14 05 30 08.9–.70**	**35.10N–.04**	**141.29E–.07**	**27**	**3.9b**	**32**	**1-79**
IDC	V	14 05 30 04.9–.70	35.09N	141.33E	0	4.0,3.9L		**¶16560061**
ISCJB	V	14 05 30 06.7–.48	35.06N–.04	141.48E–.06	27	3.9b,3.9L		
JMA	V	14 05 30 06.9–.20	35.16N	141.46E	22–3	3.2,3.9L		
NEIC	V	14 05 30 08.9–3.5	35.08N	141.33E	24–26	4.5b,3.9L		

ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=15.3km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=155.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=8.0km az=78.0.

ISC	**V**	**14 05 44 20.6–1.3**	**36.88N–.06**	**141.19E–.08**	**43–11**	**3.7b**	**37**	**0-64**
NIED	V	14 05 44 00	36.90N	141.10E	77	4.0W		**¶16529944**
ISCJB	V	14 05 44 19.8–.73	36.89N–.04	141.17E–.07	54–5	3.7b		
JMA	V	14 05 44 21.3–.10	36.92N	141.07E	50–1	3.8		
IDC	V	14 05 44 22.1–2.6	36.89N	141.06E	57–23	3.7,3.6L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ34.00000°,λ-125.00000°. NP2:ϕ_s88.00000°,δ63.00000°,λ-69.00000°. $M_0$1.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.4km az=32.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=14.9km az=124.0.

ISC	**V**	**14 10 11 33.0–1.9**	**38.51N–.05**	**142.24E–.08**	**24–12**	**3.8b**	**29**	**1-76**
NIED	V	14 10 11 00	38.60N	142.10E	44	3.8W		**¶600613935**
JMA	V	14 10 11 35.1–.10	38.60N	142.16E	35–1	4.1		
IDC	V	14 10 11 36.9–2.5	38.52N	142.10E	52–22	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ59.00000°,λ144.00000°. NP2:ϕ_s88.00000°,δ59.00000°,λ37.00000°. $M_0$6.26000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=27.4km s-min=19.5km az=84.0.

ISC	**V**	**14 10 38 35.5–1.2**	**38.34N–.05**	**141.75E–.09**	**57–9**	**3.4b**	**29**	**0-58**
NIED	V	14 10 38 00	38.40N	141.70E	32	3.7W		**¶17203602**
ISCJB	V	14 10 38 35.6–.83	38.34N–.04	141.70E–.09	60–6	3.4b		
JMA	V	14 10 38 36.0	38.35N	141.66E	60–1	3.5		
IDC	V	14 10 38 37.4–9.0	38.21N	141.87E	82–56	3.4,3.2		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ70.00000°,λ3.00000°. NP2:ϕ_s124.00000°,δ87.00000°,λ160.00000°. $M_0$3.97000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.1km az=23.8.
IDC Error ellipse: s-maj=117.4km s-min=26.0km az=72.0.

ISC	**V**	**14 10 52 57.7–1.3**	**35.62N–.06**	**141.02E–.08**	**33**		**15**	**0-56**
NIED	V	14 10 52 00	35.60N	141.00E	26	3.7W		**¶17203603**
IDC	V	14 10 52 53.2–4.0	35.51N	141.16E	0	3.5,3.4b		
ISCJB	V	14 10 52 56.1–1.2	35.64N–.07	141.1E–.10	33	3.5b,2.7s		
JMA	V	14 10 52 57.0–.20	35.64N	141.01E	22–1	3.6,2.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ34.00000°,λ-56.00000°. NP2:ϕ_s332.00000°,δ62.00000°,λ-111.00000°. $M_0$3.77000×10^{14}
IDC Error ellipse: s-maj=119.1km s-min=31.0km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=7.2km az=155.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**14 13 46 49.7–1.2**	**36.72N–.05**	**140.63E–.05**	**4–9**	**3.5b**	**28**	**0-76**
NIED	V	14 13 46 00	36.70N	140.60E	5	3.4W		**¶17203610**
IDC	V	14 13 46 49.0–1.0	36.69N	140.64E	0	3.7,3.7		
ISCJB	V	14 13 46 49.2–.75	36.66N–.03	140.71E–.06	11–4	3.5b,3.7		
JMA	V	14 13 46 50.4	36.69N	140.61E	5	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ35.00000°,λ-57.00000°. NP2:ϕ_s172.00000°,δ61.00000°,λ-111.00000°. $M_0$1.35000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=17.5km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.3km az=25.8.
JMA Event type fe.

ISC	**V**	**14 14 03 06.5–1.9**	**36.97N–.05**	**141.41E–.07**	**9–10**	**3.3b**	**28**	**1-61**
ISCJB	V	14 14 03 06.2–1.2	36.93N–.04	141.41E–.06	16–8	3.3b		**¶17203615**
IDC	V	14 14 03 06.0–1.1	36.87N	141.38E	0	3.6,3.5		
JMA	V	14 14 03 07.4–.10	36.95N	141.32E	28–1	3.4,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.7km az=30.9.
IDC Error ellipse: s-maj=25.0km s-min=18.5km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**14 14 49 09.3–.64**	**37.12N–.05**	**141.42E–.06**	**42–5**	**3.4b**	**39**	**0-147**
NIED	V	14 14 49 00	37.20N	141.40E	44	3.8W		**¶17203617**
ISCJB	V	14 14 49 07.4–.87	37.10N–.04	141.46E–.08	44–8	3.4b,3.0s		
JMA	V	14 14 49 08.6–.10	37.15N	141.36E	48–1	3.9,3.0s		
IDC	V	14 14 49 09.4–.54	37.07N	141.29E	44–5	3.7L,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ47.00000°,λ42.00000°. NP2:ϕ_s273.00000°,δ61.00000°,λ128.00000°. $M_0$6.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.3km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=9.5km az=111.0.

ISC	**V**	**14 15 01 41.1–1.3**	**37.38N–.03**	**141.32E–.04**	**10–8**	**4.6b,3.8s**	**216**	**0-147**
NIED	V	14 15 01 00	37.40N	141.40E	11	4.3W,3.8s		**¶16512071**
ISCJB	V	14 15 01 40.0–.21	37.36N–.02	141.31E–.03	10	4.5b,3.7s		
IDC	V	14 15 01 40.2–.49	37.40N	141.17E	0	4.5,4.5		
MOS	V	14 15 01 43.4–1.3	37.46N	141.35E	36	4.8b,4.5		
JMA	V	14 15 01 43.4–.10	37.41N	141.32E	28–1	4.6,4.5		
NEIC	V	14 15 01 45.6–.22	37.44N	141.15E	35	4.6b,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ11.00000°,λ-140.00000°. NP2:ϕ_s225.00000°,δ83.00000°,λ-81.00000°. $M_0$3.64000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.9km az=19.5.
IDC Error ellipse: s-maj=15.1km s-min=11.3km az=103.0.
MOS Error ellipse: s-maj=7.7km s-min=4.8km az=105.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=135.0. Recorded [3 JMA] in Fukushima.

JMA	**V**	**14 15 47 08.0–.10**	**37.05N**	**141.20E**	**28–1**	**3.5**		
NIED	V	14 15 47 00	37.00N	141.20E	8	3.5W		**¶600614175**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ42.00000°,λ-88.00000°. NP2:ϕ_s19.00000°,δ48.00000°,λ-92.00000°. $M_0$1.85000×10^{14}

ISC	**V**	**14 15 50 34.8–2.1**	**37.28N–.04**	**141.76E–.08**	**24–14**	**3.6b**	**29**	**1-90**
NIED	V	14 15 50 00	37.30N	141.60E	50	3.8W		**¶16560065**
IDC	V	14 15 50 31.4–1.1	37.31N	141.88E	0	3.9,3.8		
ISCJB	V	14 15 50 33.7–1.2	37.28N–.04	141.79E–.07	23–7	3.7b,2.8s		
JMA	V	14 15 50 37.3–.10	37.30N	141.58E	44–2	4.0,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ10.00000°,λ68.00000°. NP2:ϕ_s28.00000°,δ81.00000°,λ94.00000°. $M_0$4.90000×10^{14}
IDC Error ellipse: s-maj=25.6km s-min=20.9km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.0km az=14.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**14 16 44 06.7–1.2**	**36.93N–.05**	**141.86E–.08**	**19**	**3.7b**	**23**	**1-57**
NIED	V	14 16 44 00	36.90N	141.90E	8	3.7W		**¶600614226**
IDC	V	14 16 44 03.3–2.0	36.87N	142.28E	0	3.8,3.8		
ISCJB	V	14 16 44 05.3–.83	36.88N–.05	142.06E–.08	19	3.7b,3.8		
JMA	V	14 16 44 07.2–.30	36.88N	141.90E	32–4	3.5,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ49.00000°,λ178.00000°. NP2:ϕ_s56.00000°,δ89.00000°,λ41.00000°. $M_0$4.08000×10^{14}
IDC Error ellipse: s-maj=44.7km s-min=23.1km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.5km az=179.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**14 16 45 10.5–1.4**	**38.82N–.05**	**142.1E–.10**	**44–12**	**4.0b**	**35**	**0-78**
NIED	V	14 16 45 00	38.90N	142.10E	53	3.9W		**¶16560067**
ISCJB	V	14 16 45 09.9–.87	38.84N–.05	142.12E–.10	52–6	3.9b,3.5s		
JMA	V	14 16 45 11.0–.10	38.86N	142.08E	42–2	3.9,3.5s		
IDC	V	14 16 45 13.6–2.0	38.82N	142.05E	72–18	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ24.00000°,λ81.00000°. NP2:ϕ_s33.00000°,δ66.00000°,λ94.00000°. $M_0$9.31000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.1km az=16.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.3km s-min=13.5km az=96.0.

ISC	**V**	**14 18 41 54.2–2.1**	**35.97N–.06**	**141.28E–.08**	**8–12**	**3.5b**	**15**	**0-65**
NIED	V	14 18 41 00	36.00N	141.30E	11	3.5W		**¶17203629**

IDC V 14 18 41 53.0–1.2 35.89N 141.30E 0 3.6,3.4b
JMA V 14 18 41 55.1–.20 35.97N 141.28E 32–2 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ19.00000°,λ-15.00000°. NP2:ϕ_s303.00000°,δ85.00000°,λ-108.00000°. $M_0$2.10000×10^{14}
IDC Error ellipse: s-maj=31.7km s-min=24.0km az=52.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 14 19 30 15.9–.92 35.62N–.04 140.05E–.06 74–7 3.7b 28 0-70
IDC V 14 19 30 03.9–1.7 35.92N 141.15E 0 3.8,3.7 **¶17203637**
ISCJB V 14 19 30 14.9–.55 35.61N–.04 140.06E–.07 79–4 3.6b,3.7
JMA V 14 19 30 15.6–.20 35.69N 140.08E 68–2 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=20.1km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=157.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000°,δ63.00000°,λ93.00000°. NP2: ϕ_s172.00000°,δ27.00000°,λ84.00000°. Principal axes: T Plg72.0000°,Azm277.0000° ; N Plg3.0000°,Azm178.0000°; P Plg18.0000°,Azm87.0000°
ISC V 14 20 43 46.9–1.4 36.24N–.05 141.4E–.10 26 3.4b 13 1-56
JMA V 14 20 43 40.4–.50 36.33N 142.17E 71 2.8 **¶17203639**
IDC V 14 20 43 42.3–2.9 36.56N 141.84E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=76.2km s-min=30.3km az=57.0.
ISC V 14 21 46 44.5–2.0 36.43N–.04 141.91E–.07 1–12 3.6b 32 1-147
ISCJB V 14 21 46 44.2–1.4 36.44N–.03 142.03E–.06 10–9 3.6b **¶17203642**
JMA V 14 21 46 44.7–.40 36.48N 141.95E 7–4 3.5
IDC V 14 21 46 44.4–.97 36.33N 142.04E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.1km az=9.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=19.8km az=108.0.
JMA V 14 22 50 59.9–.20 38.34N 142.22E 36–2 3.9
¶600614494
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 14 23 43 52.6–.76 36.58N–.05 141.97E–.08 19 3.7b 26 1-147
NIED V 14 23 43 00 36.60N 141.90E 14 3.7W **¶16560068**
IDC V 14 23 43 49.5–.82 36.47N 142.03E 0 3.9,3.8
ISCJB V 14 23 43 50.6–.62 36.56N–.04 142.01E–.06 19 3.7b,3.8
JMA V 14 23 43 53.1–.20 36.63N 141.86E 64 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ54.00000°,λ134.00000°. NP2:ϕ_s124.00000°,δ55.00000°,λ46.00000°. $M_0$3.46000×10^{14}
IDC Error ellipse: s-maj=23.7km s-min=17.0km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.0km az=17.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 14 23 50 48.6–.31 37.72N–.03 141.58E–.03 52–2 5.2b,4.3s 1127 1-152
NIED V 14 23 50 00 37.70N 141.60E 56 5.0W,4.3s **¶16512083**
BJI V 14 23 50 46.2 37.66N 141.55E 58 5.2b,5.0b
MOS V 14 23 50 47.2–.88 37.79N 141.56E 51 5.5b,5.0b
JMA V 14 23 50 48.1–.10 37.66N 141.58E 48–2 5.1,5.0b
ISCJB V 14 23 50 48.2–.27 37.66N–.02 141.45E–.02 59–2 5.2b,4.3s
IDC V 14 23 50 49.8–1.8 37.66N 141.49E 64–16 5.1,5.0
GCMT V 14 23 50 49.8–.40 37.71N 141.75E 56–1 5.0W,5.0
NEIC V 14 23 50 49.8–.40 37.67N 141.40E 60–3 5.3b,5.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ35.00000°,λ96.00000°. NP2:ϕ_s8.00000°,δ55.00000°,λ86.00000°. $M_0$3.69000×10^{16}
MOS Error ellipse: s-maj=7.2km s-min=5.3km az=91.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s348.00000°,δ51.00000°,λ69.00000°. NP2:ϕ_s200.00000°,δ44.00000°,λ114.00000°. Principal axes: T Plg73.0000°,Azm196.0000°; N Plg17.0000°,Azm2.0000°; P Plg4.0000° ,Azm93.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=153.8.
IDC Error ellipse: s-maj=12.5km s-min=10.2km az=100.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c57; s81,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.13±.20 $M_{\theta\theta}$0.04±.13; $M_{\phi\phi}$-4.17±.12; $M_{r\theta}$-0.66±.10; $M_{\theta\phi}$-0.70±.09; $M_{\phi r}$0.63±.10; Best double couple: NP1:ϕ_s359.00000°,δ49.00000° ,λ76.00000°. NP2:ϕ_s199.00000°,δ42.00000°,λ105.00000°. Principal axes: T 4.2980,Plg79.0000°,Azm208.0000°; N 0.0230,Plg10.0000°,Azm8.0000° ; P -4.3160,Plg4.0000°,Azm99.0000° $M_0$4.30700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=137.0. Recorded [3 JMA] in Fukushima and Miyagi.
JMA V 15 00 02 01.1–.20 38.19N 142.13E 15–2 3.8
¶600614526
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 15 00 21 40.9–1.4 37.00N–.09 141.88E–.09 19 3.7b 20 1-54
IDC V 15 00 21 36.8–3.1 36.81N 142.13E 0 3.7,3.7L **¶600614535**
JMA V 15 00 21 42.6–.40 36.92N 141.71E 53–5 3.1,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=68.2km s-min=24.8km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
JMA V 15 00 36 48.3–.10 37.72N 141.82E 32–3 3.7
¶600614543
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 15 00 51 43.7–.68 36.76N–.05 141.56E–.06 24–3 4.0b 54 1-147
NIED V 15 00 51 00 36.80N 141.40E 41 4.1W **¶16590014**
ISCJB V 15 00 51 41.4–1.0 36.73N–.03 141.64E–.05 22–6 3.9b,3.3s
JMA V 15 00 51 44.7–.20 36.75N 141.38E 48–2 4.1,3.3s
IDC V 15 00 51 45.1–.87 36.67N 141.49E 35–5 4.1L,3.9
NEIC V 15 00 51 45.0–.66 36.68N 141.61E 36–5 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ32.00000°,λ-156.00000°. NP2:ϕ_s203.00000°,δ77.00000°,λ-60.00000°. $M_0$1.35000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.6km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=15.5km az=93.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=7.6km az=107.0. Recorded [1 JMA] in Fukushima and Ibaraki.
JMA V 15 01 06 53.1–.20 36.42N 141.63E 46 3.5
NIED V 15 01 06 00 36.40N 141.60E 32 3.5W **¶600614563**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ49.00000°,λ-138.00000°. NP2:ϕ_s122.00000°,δ60.00000°,λ-49.00000°. $M_0$1.78000×10^{14}
ISC V 15 01 31 23.2–2.9 38.78N–.07 142.3E–.10 26–15 16 1-59
NIED V 15 01 31 00 38.70N 142.30E 56 3.7W **¶17203652**
IDC V 15 01 31 11.2–8.1 38.58N 143.66E 0 4.0,4.0s
JMA V 15 01 31 22.5–.10 38.71N 142.33E 33–2 3.6,4.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ18.00000°,λ13.00000°. NP2:ϕ_s12.00000°,δ86.00000°,λ107.00000°. $M_0$3.82000×10^{14}
IDC Error ellipse: s-maj=132.1km s-min=54.7km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 15 04 12 16.2–1.4 38.14N–.06 141.82E–.10 50–12 3.7b 33 0-146
NIED V 15 04 12 00 38.10N 141.70E 56 3.7W **¶600614668**
ISCJB V 15 04 12 15.7–.78 38.15N–.05 141.78E–.09 63–6 3.7b
JMA V 15 04 12 16.8–.10 38.15N 141.73E 55–1 3.9
IDC V 15 04 12 20.6–3.1 38.13N 141.64E 92–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ41.00000°,λ109.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ74.00000°. $M_0$4.54000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.8km az=25.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.7km s-min=17.0km az=83.0.
ISC V 15 04 25 01.3–2.1 36.61N–.07 141.33E–.08 7–11 3.9b 28 1-75
IDC V 15 04 25 00.1–1.0 36.66N 141.47E 0 3.9,3.8L **¶600614676**
NIED V 15 04 25 00 36.60N 141.20E 11 3.7W,3.8L
ISCJB V 15 04 25 01.5–1.2 36.56N–.06 141.37E–.07 21–7 3.8b,3.0s
JMA V 15 04 25 04.2–.10 36.61N 141.17E 39–2 3.8,3.0s
NEIC V 15 04 25 05.6–.58 36.64N 141.32E 35 4.1b,3.0s

ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=21.2km az=84.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ47.00000°,λ-120.00000°. NP2:ϕ_s229.00000°,δ51.00000°,λ-62.00000°. $M_0$3.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=7.3km az=140.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.4km s-min=9.3km az=136.0. Recorded [1 JMA] in Ibaraki.
ISC V 15 04 54 58.3–1.6 38.64N–.05 142.50E–.07 40–13 4.2b,3.2s 66 1-151
NIED V 15 04 54 00 38.60N 142.40E 47 4.1W,3.2s **¶16591586**
ISCJB V 15 04 54 57.1–.84 38.66N–.04 142.50E–.07 46–6 4.2b,3.2s
JMA V 15 04 54 58.1–.10 38.63N 142.41E 38–2 4.3,3.2s
NEIC V 15 04 54 58.6–.83 38.64N 142.45E 44–7 4.3b,3.2s
IDC V 15 04 55 02.0–2.5 38.57N 142.35E 76–22 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ37.00000°,λ101.00000°. NP2:ϕ_s203.00000°,δ54.00000°,λ82.00000°. $M_0$1.88000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.2km az=26.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.5km az=128.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=15.3km s-min=14.1km az=100.0.
ISC V 15 06 04 13.0–1.1 34.60N–.08 140.31E–.06 60–9 19 0-55
ISCJB V 15 06 04 12.0–.80 34.60N–.07 140.33E–.07 67–7 3.5b **¶17203668**
JMA V 15 06 04 12.6–.20 34.64N 140.33E 63–2 2.9
IDC V 15 06 04 16.0–4.0 34.40N 139.74E 71–44 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.8km az=29.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=126.3km s-min=29.7km az=62.0.
ISC V 15 09 56 38.0–1.2 38.32N–.04 141.78E–.09 46–11 3.7b 39 0-146
NIED V 15 09 56 00 38.30N 141.70E 68 3.8W **¶17203684**
ISCJB V 15 09 56 37.2–.63 38.30N–.03 141.76E–.08 59–5 3.6b
JMA V 15 09 56 38.5–.10 38.33N 141.72E 52–1 3.7
IDC V 15 09 56 38.7–1.8 38.30N 141.59E 55–17 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ20.00000°,λ140.00000°. NP2:ϕ_s356.00000°,δ78.00000°,λ75.00000°. $M_0$5.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=4.5km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.5km s-min=10.8km az=98.0.
JMA V 15 12 09 12.1–.20 37.09N 141.38E 48–2 2.0
¶603241702
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 15 12 13 24.6–.10 39.26N 142.59E 30–1 3.1
¶602919055
ISC V 15 12 32 59.9–.68 39.84N–.04 142.75E–.04 27–4 4.7b,3.8s 351 1-162
NIED V 15 12 32 00 39.80N 142.70E 20 4.5W,3.8s **¶16512100**
JMA V 15 12 32 58.4–.20 39.77N 142.73E 31–2 4.7,3.8s
ISCJB V 15 12 32 58.4–.59 39.88N–.03 142.69E–.03 20–4 4.7b,3.9s
MOS V 15 12 33 01.8–.84 39.98N 142.57E 43 5.0b,3.9s
IDC V 15 12 33 02.0–1.7 39.75N 142.76E 45–15 4.4,4.3
NEIC V 15 12 33 03.2–.55 39.85N 142.61E 46–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ57.00000°,λ14.00000°. NP2:ϕ_s60.00000°,δ78.00000°,λ146.00000°. $M_0$5.98000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.0km az=147.5.
MOS Error ellipse: s-maj=7.4km s-min=4.5km az=100.3.
IDC Error ellipse: s-maj=13.3km s-min=10.6km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=143.0. Recorded [2 JMA] in Iwate and Miyagi.
ISC V 15 13 22 39.4–1.1 35.53N–.04 141.20E–.07 34–3 3.8b 41 0-76
IDC V 15 13 22 34.3–.80 35.55N 141.25E 0 4.0L,3.8 **¶16577301**
ISCJB V 15 13 22 38.1–.64 35.53N–.03 141.20E–.07 43–6 3.7b,3.8
NEIC V 15 13 22 39.5–.65 35.53N 141.17E 36–6 4.6b,3.8
JMA V 15 13 22 40.6–.20 35.57N 140.95E 38–1 3.3,3.8
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=15.4km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.7km az=179.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.2km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 15 13 44 56.6–1.1 39.25N–.04 142.6E–.10 21–6 3.4b 25 1-63
ISCJB V 15 13 44 56.8–1.2 39.22N–.04 142.6E–.10 40–12 3.4b **¶17203695**
JMA V 15 13 44 56.9–.10 39.26N 142.57E 28–1 3.4
IDC V 15 13 44 59.2–2.2 39.21N 142.57E 46–22 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=6.9km az=9.6.
IDC Error ellipse: s-maj=37.7km s-min=14.0km az=100.0.
JMA V 15 13 51 10.2–.10 37.41N 141.39E 28–1 3.7
¶600614979
JMA Event type fe.
ISC V 15 15 34 07.2–3.0 38.41N–.05 142.26E–.09 14–17 4.1b 33 1-96
NIED V 15 15 34 00 38.40N 142.20E 80 4.0W **¶16580985**
IDC V 15 15 34 05.2–1.1 38.40N 142.32E 0 3.9,3.8
JMA V 15 15 34 08.8–.10 38.44N 142.21E 31–2 3.8,3.8
NEIC V 15 15 34 11.0–.84 38.39N 142.22E 42–8 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ67.00000°,λ-5.00000°. NP2:ϕ_s252.00000°,δ85.00000°,λ-157.00000°. $M_0$9.49000×10^{14}
IDC Error ellipse: s-maj=37.6km s-min=17.0km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.9km s-min=6.5km az=108.0. Recorded [1 JMA] in Iwate and Miyagi.
ISC V 15 17 50 59.6–1.2 36.55N–.04 141.39E–.08 26 19 1-44
ISCJB V 15 17 50 57.5–.98 36.52N–.04 141.66E–.09 26 3.0b **¶17203701**
JMA V 15 17 50 59.5–.20 36.54N 141.51E 47–4 2.9
IDC V 15 17 51 02.2–8.8 36.39N 141.59E 63–52 3.3,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.0km az=8.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=106.7km s-min=24.8km az=83.0.
ISC V 15 18 33 37.8–1.1 35.84N–.07 141.86E–.08 23 3.6b 21 1-65
NIED V 15 18 33 00 35.90N 141.90E 20 3.8W **¶17203703**
IDC V 15 18 33 34.4–1.7 35.79N 141.98E 0 3.7,3.6
ISCJB V 15 18 33 36.0–.81 35.77N–.05 141.93E–.08 23 3.5b,3.6
JMA V 15 18 33 37.5–.30 35.89N 141.87E 26–4 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ68.00000°,λ23.00000°. NP2:ϕ_s19.00000°,δ69.00000°,λ156.00000°. $M_0$4.97000×10^{14}
IDC Error ellipse: s-maj=37.1km s-min=23.0km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.0km az=33.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 15 19 07 40.2–.41 38.64N–.03 141.99E–.04 46–2 4.9b,4.7s 430 1-145
NIED V 15 19 07 00 38.60N 141.90E 41 5.0W,4.7s **¶16512226**
MOS V 15 19 07 38.4–.93 38.71N 141.89E 37 5.2b,4.7s
ISCJB V 15 19 07 39.9–.39 38.66N–.02 141.89E–.04 51–2 4.9b,4.8s
JMA V 15 19 07 40.9–.10 38.63N 141.93E 48–1 4.7,4.8s
IDC V 15 19 07 41.6–1.6 38.64N 141.89E 52–14 4.7,4.7s
NEIC V 15 19 07 42.0–.61 38.66N 141.80E 56–5 4.9b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ14.00000°,λ40.00000°. NP2:ϕ_s3.00000°,δ81.00000°,λ101.00000°. $M_0$3.70000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=3.9km az=105.6.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.1km az=30.7.
JMA Event type fe.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.4km az=131.0. Recorded [3 JMA] in Miyagi.
ISC V 15 20 01 19.5–1.8 39.28N–.05 142.6E–.10 42–18 3.5b 27 1-59
ISCJB V 15 20 01 19.0–1.1 39.27N–.05 142.5E–.10 54–10 3.3b **¶17203707**

JMA V 15 20 01 19.9 39.26N 142.47E 49–1 3.2
IDC V 15 20 01 21.4–3.1 39.22N 142.46E 61–29 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=6.9km az=16.7.
IDC Error ellipse: s-maj=32.7km s-min=21.5km az=105.0.
ISC V 15 20 14 35.4–2.2 38.38N–.05 142.2E–.10 26–15 16 1-58
ISCJB V 15 20 14 34.9–1.6 38.35N–.07 142.2E–.10 25–11 4.1s,3.4b **¶600615200**
IDC V 15 20 14 35.0–3.0 37.95N 142.87E 0 4.2,4.2s
JMA V 15 20 14 36.7–.10 38.43N 142.16E 31–2 3.5,4.2s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=10.7km az=14.8.
IDC Error ellipse: s-maj=62.9km s-min=34.0km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 15 21 58 16.1–.70 35.83N–.03 140.56E–.04 30–4 4.5b,3.9s 160 0-151
NIED V 15 21 58 00 35.90N 140.60E 53 4.4W,3.9s **¶16524508**
MOS V 15 21 58 17.7–1.2 35.94N 140.71E 60 4.8b,3.9s
JMA V 15 21 58 18.0–.10 35.87N 140.62E 52–1 3.8,3.9s
NEIC V 15 21 58 19.8–.72 35.74N 140.55E 64–6 4.7b,3.9s
IDC V 15 21 58 19.7–1.4 35.75N 140.53E 62–12 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ21.00000°,λ139.00000°. NP2:ϕ_s356.00000°,δ76.00000°,λ74.00000°. M$_o$4.32000×10^{15}
MOS Error ellipse: s-maj=10.1km s-min=6.0km az=121.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s358.00000°,δ87.00000°,λ73.00000°. NP2: ϕ_s260.00000°,δ17.00000°,λ171.00000°. Principal axes: T Plg45.0000°,Azm251.0000° ; N Plg17.0000°,Azm359.0000°; P Plg40.0000°,Azm104.0000°
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=100.0. Recorded [2 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=13.4km s-min=7.4km az=66.0.
ISC V 15 22 29 38.5–3.1 37.06N–.05 141.89E–.09 7–16 19 1-44
NIED V 15 22 29 00 37.10N 141.60E 71 4.0W **¶17203712**
IDC V 15 22 29 37.5–3.8 37.14N 142.05E 0 3.6,3.5
ISCJB V 15 22 29 40.7–1.7 37.09N–.05 141.8E–.10 20–10 3.2b,3.5
JMA V 15 22 29 43.7–.20 37.06N 141.61E 50–3 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ45.00000°,λ-131.00000°. NP2:ϕ_s357.00000°,δ57.00000°,λ-57.00000°. M$_o$1.11000×10^{15}
IDC Error ellipse: s-maj=58.2km s-min=36.1km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=8.1km az=13.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 15 23 48 50.1–.20 37.83N 141.97E 33–2 3.5
¶600615319
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 16 03 20 46.7–.10 39.11N 142.13E 45–1 3.7
NIED V 16 03 20 00 39.10N 142.10E 17 3.9W **¶600615417**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s246.00000°,δ64.00000°,λ-21.00000°. NP2:ϕ_s345.00000°,δ71.00000°,λ-153.00000°. M$_o$8.64000×10^{14}
JMA V 16 03 22 52.6–.10 35.78N 140.98E 13–1 3.6
¶600615421
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 16 07 31 44.9–2.2 38.40N–.05 142.21E–.09 8–13 3.7b 16 1-62
NIED V 16 07 31 00 38.40N 142.20E 65 3.8W **¶17203732**
ISCJB V 16 07 31 46.5–1.5 38.39N–.06 142.24E–.09 27–9 3.6b
IDC V 16 07 31 47.4–2.7 37.85N 142.85E 0 3.6,3.5b
JMA V 16 07 31 48.0–.10 38.45N 142.18E 30–2 3.8,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ30.00000°,λ-37.00000°. NP2:ϕ_s182.00000°,δ72.00000°,λ-115.00000°. M$_o$5.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=9.3km az=9.5.
IDC Error ellipse: s-maj=71.3km s-min=31.7km az=56.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 16 08 30 02.0–.81 37.22N–.04 141.55E–.07 36–2 3.9b 36 1-147
ISCJB V 16 08 30 00.5–.82 37.18N–.04 141.56E–.07 44–7 3.9b,2.9s **¶17203735**
NIED V 16 08 30 00 37.30N 141.40E 56 4.0W,2.9s
JMA V 16 08 30 03.0–.10 37.26N 141.35E 49–1 3.9,2.9s
IDC V 16 08 30 04.1–.80 37.06N 141.48E 62–7 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.8km az=12.9.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s199.00000°,δ24.00000°,λ85.00000°. NP2:ϕ_s24.00000°,δ66.00000°,λ92.00000°. M$_o$9.61000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.7km s-min=9.7km az=129.0.
ISC V 16 09 03 39.8–1.1 36.42N–.05 141.35E–.09 59–10 4.1b 26 1-69
IDC V 16 09 03 28.4–1.4 36.88N 142.45E 0 4.1,4.1 **¶17203738**
ISCJB V 16 09 03 41.0–.74 36.53N–.05 141.24E–.08 88–6 3.9b,4.1
JMA V 16 09 03 45.4–.10 36.51N 140.99E 53–1 3.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=44.0km s-min=18.8km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=8.3km az=9.4.
ISC V 16 09 05 56.9–2.0 37.31N–.04 141.66E–.06 1–12 3.6b 30 1-90
NIED V 16 09 05 00 37.30N 141.50E 8 3.7W **¶17203739**
IDC V 16 09 05 56.9–.76 37.31N 141.56E 0 3.8,3.8L
ISCJB V 16 09 05 57.4–1.8 37.29N–.03 141.67E–.05 15–11 3.5b,3.8L
JMA V 16 09 05 59.3–.10 37.31N 141.54E 32–2 4.1,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ44.00000°,λ-121.00000°. NP2:ϕ_s245.00000°,δ54.00000°,λ-63.00000°. M$_o$4.46000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=18.2km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=5.7km az=25.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 16 10 55 31.0–2.0 38.97N–.05 142.41E–.08 9–12 3.8b 24 1-62
NIED V 16 10 55 00 39.00N 142.40E 29 3.5W **¶17203743**
JMA V 16 10 55 32.6–.10 39.00N 142.45E 32–2 3.8
IDC V 16 10 55 34.9–3.4 38.94N 142.42E 38–31 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ29.00000°,λ-116.00000°. NP2:ϕ_s88.00000°,δ64.00000°,λ-76.00000°. M$_o$2.28000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=17.5km az=110.0.
JMA V 16 12 13 40.3–.10 38.44N 142.16E 24–1 2.9
¶600615652
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 16 12 14 02.4–.10 37.57N 141.80E 19–2 3.8
NIED V 16 12 14 00 37.60N 141.80E 20 3.7W **¶600615655**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s206.00000°,δ37.00000°,λ-151.00000°. NP2:ϕ_s92.00000°,δ73.00000°,λ-57.00000°. M$_o$4.35000×10^{14}
ISC V 16 14 00 26.7–1.8 37.28N–.04 141.47E–.07 4–11 27 0-57
IDC V 16 14 00 26.3–1.9 37.15N 141.63E 0 3.6,3.6 **¶17203754**
ISCJB V 16 14 00 27.1–1.0 37.27N–.03 141.52E–.06 21–6 3.4b,3.6
JMA V 16 14 00 30.1–.10 37.31N 141.32E 36–1 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=43.5km s-min=23.3km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.8km az=15.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 16 15 03 38.6–1.1 35.68N–.06 141.18E–.07 33 3.5b 19 0-59
IDC V 16 15 03 33.9–1.7 35.66N 141.35E 0 3.5,3.5b **¶17203756**
ISCJB V 16 15 03 37.0–.82 35.67N–.05 141.25E–.09 33 3.5b,2.5s
JMA V 16 15 03 39.2–.10 35.66N 141.02E 35–1 3.1,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=45.2km s-min=20.4km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.4km az=167.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 16 15 53 31.6–.48 37.35N–.03 141.34E–.03 31–2 4.9b,4.1s 453 0-147
NIED V 16 15 53 00 37.40N 141.40E 38 4.7W,4.1s **¶16521366**
MOS V 16 15 53 31.2–1.0 37.43N 141.32E 33 5.2b,4.1s
JMA V 16 15 53 32.7–.10 37.38N 141.30E 35–1 4.6,4.1s
ISCJB V 16 15 53 32.4–.37 37.37N–.02 141.26E–.03 43–2 4.8b,4.1s
IDC V 16 15 53 34.1–1.7 37.41N 141.21E 42–15 4.7,4.6
NEIC V 16 15 53 34.6–.48 37.43N 141.15E 47–4 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ6.00000°,λ-35.00000°. NP2:ϕ_s215.00000°,δ87.00000°,λ-95.00000°. M$_o$1.09000×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.2km az=108.3.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=40.4.
IDC Error ellipse: s-maj=12.8km s-min=10.2km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.1km az=142.0. Recorded [4 JMA] in Fukushima.
ISC V 16 16 31 40.4–1.1 35.47N–.06 141.1E–.10 33 3.6b 19 0-90
IDC V 16 16 31 34.6–1.5 35.53N 141.42E 0 3.7,3.6 **¶17203758**
ISCJB V 16 16 31 38.3–.92 35.49N–.05 141.3E–.10 33 3.7s,3.6b
JMA V 16 16 31 41.0–.10 35.50N 141.01E 35–1 2.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=48.9km s-min=18.8km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=6.8km az=170.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 16 17 18 28.3–.20 37.27N 141.63E 45–3 2.3
¶600615824
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 16 17 19 53.9–2.6 37.85N–.06 141.9E–.10 16–14 4.0b 24 1-68
NIED V 16 17 19 00 37.80N 141.90E 8 3.5W **¶17203762**
ISCJB V 16 17 19 52.8–1.6 37.82N–.05 142.07E–.09 20–10 3.9b,3.3s
IDC V 16 17 19 52.4–1.4 37.87N 141.83E 0 3.8b,3.7
JMA V 16 17 19 55.4–.10 37.85N 141.94E 28–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s114.00000°,δ38.00000°,λ-59.00000°. NP2:ϕ_s256.00000°,δ58.00000°,λ-112.00000°. M$_o$2.17000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=6.8km az=18.2.
IDC Error ellipse: s-maj=50.8km s-min=19.8km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 16 18 12 33.9–.57 38.10N–.04 142.41E–.05 26–3 4.0b 52 1-145
NIED V 16 18 12 00 38.20N 142.50E 26 3.8W **¶600615872**
ISCJB V 16 18 12 33.3–.95 38.10N–.03 142.51E–.07 35–8 4.0b
JMA V 16 18 12 34.0–.20 38.18N 142.46E 35–3 3.8
IDC V 16 18 12 35.5–.59 38.04N 142.44E 38–4 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s343.00000°,δ14.00000°,λ-101.00000°. NP2:ϕ_s174.00000°,δ76.00000°,λ-87.00000°. M$_o$5.06000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=11.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.1km s-min=12.3km az=92.0.
JMA V 16 19 10 16.5–.10 39.07N 142.40E 36–1 3.6
¶16523238
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 16 19 42 56.1–.20 35.69N 140.95E 11–1 2.5
¶600615940
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 16 20 23 46.8–.10 36.62N 141.03E 33–1 3.5
NIED V 16 20 23 00 36.60N 141.00E 17 3.5W **¶600615965**
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s146.00000°,δ73.00000°,λ-167.00000°. NP2:ϕ_s52.00000°,δ78.00000°,λ-17.00000°. M$_o$1.75000×10^{14}
ISC V 16 20 31 36.7–.73 35.93N–.04 140.14E–.05 64–7 3.8b 35 0-92
NIED V 16 20 31 00 36.00N 140.10E 65 3.8W **¶17203771**
ISCJB V 16 20 31 35.6–.47 35.92N–.03 140.16E–.06 69–4 3.8b
IDC V 16 20 31 35.1–1.3 35.97N 140.29E 45–16 3.8,3.7L
JMA V 16 20 31 37.2–.10 35.97N 140.08E 63–1 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s223.00000°,δ46.00000°,λ59.00000°. NP2:ϕ_s84.00000°,δ52.00000°,λ119.00000°. M$_o$5.71000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=177.9.
IDC Error ellipse: s-maj=14.3km s-min=8.1km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s211.00000°,δ68.00000°,λ68.00000°. NP2: ϕ_s77.00000°,δ31.00000°,λ132.00000°. Principal axes: T Plg61.0000°,Azm88.0000° ; N Plg20.0000°,Azm219.0000°; P Plg20.0000°,Azm317.0000°
ISC V 16 21 14 05.2–1.1 38.12N–.04 141.79E–.07 51–9 4.3b 99 0-146
NIED V 16 21 14 00 38.10N 141.80E 59 4.1W **¶16560083**
ISCJB V 16 21 14 04.7–.51 38.13N–.03 141.81E–.05 61–3 4.2b
IDC V 16 21 14 04.6–1.7 38.13N 141.70E 43–16 4.1,4.1
NEIC V 16 21 14 05.9–.62 38.20N 141.76E 54–5 4.5b,4.1
JMA V 16 21 14 05.8–.10 38.16N 141.75E 55–1 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s33.00000°,δ33.00000°,λ111.00000°. NP2:ϕ_s189.00000°,δ59.00000°,λ77.00000°. M$_o$1.86000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=27.4.
IDC Error ellipse: s-maj=16.7km s-min=9.4km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.9km az=125.0. Recorded [2 JMA] in Iwate and Miyagi.
JMA Event type fe.
ISC V 16 23 14 21.7–1.8 37.40N–.05 141.48E–.08 25–11 3.7b 27 0-74
NIED V 16 23 14 00 37.40N 141.30E 44 3.6W **¶17203782**
IDC V 16 23 14 17.2–1.6 37.44N 141.66E 0 3.9,3.8
ISCJB V 16 23 14 21.3–1.2 37.37N–.05 141.50E–.07 32–6 3.7b,3.8
JMA V 16 23 14 23.9–.10 37.41N 141.31E 33–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s317.00000°,δ43.00000°,λ167.00000°. NP2:ϕ_s57.00000°,δ81.00000°,λ47.00000°. M$_o$2.61000×10^{14}
IDC Error ellipse: s-maj=43.6km s-min=26.4km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.5km az=21.0.
JMA Event type fe.
ISC V 16 23 35 45.9–1.2 35.26N–.06 141.61E–.09 25 3.5b 14 1-55
IDC V 16 23 35 41.9–1.4 35.20N 141.72E 0 3.5,3.4 **¶17203783**
ISCJB V 16 23 35 44.1–.00 35.23N–.05 141.77E–.08 25 3.4b,3.0s
JMA V 16 23 35 46.0–.40 35.34N 141.65E 32 2.7,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=22.5km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.6km az=175.8.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC V 17 00 56 08.6–1.2 35.85N–.05 140.94E–.09 28–7 3.5b 17 0-56
IDC V 17 00 56 04.5–1.4 35.78N 140.97E 0 3.7,3.5 **¶600616117**
ISCJB V 17 00 56 07.6–1.1 35.86N–.05 141.01E–.08 32–6 3.5b,3.5
JMA V 17 00 56 08.4–.10 35.85N 140.95E 32–1 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=25.2km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=7.7km az=155.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 17 01 03 03.6–1.2 37.76N–.03 141.06E–.05 12–7 3.8b 23 0-77
ISCJB V 17 01 03 03.5–.85 37.76N–.03 141.05E–.06 12–5 4.0s,3.7b **¶16523250**
JMA V 17 01 03 03.7 37.76N 141.02E 18 4.0,3.7b
IDC V 17 01 03 05.5–1.0 37.27N 141.16E 0 4.0,4.0s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.6km az=7.0.
JMA Event type fe.
IDC Error ellipse: s-maj=29.9km s-min=21.7km az=129.0.
JMA V 17 04 37 42.9–.10 37.62N 141.92E 26–3 3.6
NIED V 17 04 37 00 37.60N 141.90E 14 3.4W **¶600616212**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s309.00000°,δ25.00000°,λ-106.00000°. NP2:ϕ_s147.00000°,δ66.00000°,λ-83.00000°. M$_o$1.40000×10^{14}
ISC V 17 04 54 48.5–1.3 39.30N–.05 142.27E–.08 43–10 4.1b,3.4s 43 0-88
NIED V 17 04 54 00 39.30N 142.20E 47 4.1W,3.4s **¶16580992**
IDC V 17 04 54 43.6–1.4 39.62N 142.14E 0 4.0,3.8
ISCJB V 17 04 54 47.7–.77 39.29N–.04 142.23E–.09 52–4 4.0b,3.3s
JMA V 17 04 54 48.0–.10 39.27N 142.25E 42–1 3.9,3.3s
NEIC V 17 04 54 50.4–.83 39.47N 142.17E 56–6 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s185.00000°,δ22.00000°,λ73.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ97.00000°. M$_o$1.68000×10^{15}
IDC Error ellipse: s-maj=37.7km s-min=20.4km az=159.0.

ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.3km az=19.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=7.1km az=130.0. Recorded [2 JMA] in Iwate and Miyagi.

JMA	**V**	**17 04 57 33.2**	**36.86N**	**140.66E**	**11–1**	**3.5**			
									¶600616218

JMA Event type fe.

ISC	**V**	**17 06 04 30.5–2.1**	**39.07N–.05**	**142.43E–.07**	**11–12**	**3.9b**	**27**	**1-63**	
NIED	V	17 06 04 00	39.10N	142.40E	38	3.8W			**¶17203790**
ISCJB	V	17 06 04 30.7–1.1	39.09N–.04	142.50E–.07	20–7	3.8b			
IDC	V	17 06 04 32.2–.90	39.56N	142.15E	0	3.9,3.7			
JMA	V	17 06 04 32.2–.10	39.09N	142.42E	31–1	4.0,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ32.00000°,λ-69.00000°. NP2:ϕ_s195.00000°,δ61.00000°,λ-102.00000°. $M_0$5.22000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.8km az=26.1.
IDC Error ellipse: s-maj=29.7km s-min=17.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**17 06 52 38.2–.61**	**35.68N–.07**	**141.51E–.06**	**25**	**3.9b,3.5s**	**38**	**1-147**	
NIED	V	17 06 52 00	35.70N	141.50E	5	4.2W,3.5s			**¶16710071**
IDC	V	17 06 52 34.5–.69	35.61N	141.54E	0	4.0,3.8			
ISCJB	V	17 06 52 36.3–.46	35.64N–.05	141.64E–.05	25	3.8b,3.6s			
JMA	V	17 06 52 37.3–.20	35.70N	141.49E	11–2	3.8,3.6s			
NEIC	V	17 06 52 39.4–.48	35.64N	141.57E	35	4.2b,3.6s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ4.00000°,λ-153.00000°. NP2:ϕ_s175.00000°,δ88.00000°,λ-87.00000°. $M_0$2.39000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=17.3km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.6km az=4.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.7km az=87.0.

ISC	**V**	**17 07 49 00.1–1.0**	**35.89N–.05**	**140.91E–.07**	**25–7**	**3.6b**	**24**	**0-91**	
IDC	V	17 07 48 56.5–.86	35.87N	141.06E	0	3.7,3.7L			**¶17203801**
ISCJB	V	17 07 48 58.7–.79	35.90N–.05	141.04E–.07	29–5	3.5b,3.7L			
NIED	V	17 07 49 00	35.80N	140.90E	35	3.7W,3.7L			
JMA	V	17 07 49 00.0–.10	35.84N	140.93E	32–1	3.5,3.7L			

ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=18.4km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.8km az=148.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ48.00000°,λ-32.00000°. NP2:ϕ_s189.00000°,δ67.00000°,λ-133.00000°. $M_0$4.42000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**17 08 23 03.6–1.2**	**36.06N–.07**	**141.07E–.09**	**31**	**3.7b,3.2s**	**11**	**0-65**	
IDC	V	17 08 23 00.2–1.6	36.30N	141.27E	0	3.7,3.6			**¶17203805**
ISCJB	V	17 08 23 02.2–.93	36.05N–.06	141.19E–.08	31	3.6s,3.6b			
JMA	V	17 08 23 02.5–.10	36.01N	141.16E	36–2	3.3,3.6b			

ISC Event type ke.
IDC Error ellipse: s-maj=36.3km s-min=31.4km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=9.3km az=158.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**17 08 49 17.2–1.1**	**39.90N–.04**	**142.21E–.08**	**45–8**	**3.9b,3.2s**	**35**	**0-72**	
NIED	V	17 08 49 00	39.90N	142.30E	44	3.9W,3.2s			**¶17203808**
ISCJB	V	17 08 49 15.9–.84	39.93N–.03	142.3E–.10	53–6	3.7b,3.1s			
JMA	V	17 08 49 16.3–.10	39.94N	142.32E	42–1	3.5,3.1s			
IDC	V	17 08 49 19.4–2.6	39.91N	142.32E	72–23	3.7,3.5			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ23.00000°,λ83.00000°. NP2:ϕ_s22.00000°,δ68.00000°,λ93.00000°. $M_0$7.86000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=5.8km az=176.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.3km s-min=17.5km az=92.0.

ISC	**V**	**17 13 41 00.7–.83**	**36.28N–.05**	**140.54E–.06**	**54–7**	**3.9b**	**35**	**0-117**	
ISCJB	V	17 13 40 59.3–.52	36.26N–.04	140.57E–.06	60–4	3.9b			**¶16525813**
IDC	V	17 13 41 00.9–2.0	36.29N	140.63E	57–17	3.9,3.8			
NIED	V	17 13 41 00	36.30N	140.50E	59	4.1W,3.8			
JMA	V	17 13 41 01.0–.10	36.27N	140.46E	52–1	4.0,3.8			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.4km az=29.0.
IDC Error ellipse: s-maj=16.2km s-min=12.4km az=76.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ21.00000°,λ132.00000°. NP2:ϕ_s0.00000°,δ75.00000°,λ76.00000°. $M_0$1.45000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s357.00000°,δ66.00000°,λ76.00000°. NP2:ϕ_s209.00000°,δ28.00000°,λ119.00000°. Principal axes: T Plg66.0000°,Azm242.0000°; N Plg13.0000°,Azm3.0000°; P Plg20.0000°,Azm98.0000°

ISC	**V**	**17 15 23 43.1–1.1**	**36.90N–.03**	**140.69E–.04**	**10–7**	**4.0b**	**41**	**0-147**	
NIED	V	17 15 23 00	36.90N	140.60E	5	3.7W			**¶16580990**
IDC	V	17 15 23 41.5–.76	36.90N	140.75E	0	3.9,3.8			
ISCJB	V	17 15 23 42.4–.59	36.91N–.03	140.76E–.05	18–4	3.8b,3.8			
JMA	V	17 15 23 42.9	36.92N	140.64E	5–1	3.7,3.8			
NEIC	V	17 15 23 47.0–.89	36.91N	140.65E	41–8	4.2b,3.8			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ45.00000°,λ-62.00000°. NP2:ϕ_s180.00000°,δ52.00000°,λ-115.00000°. $M_0$4.11000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=14.2km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=31.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s173.00000°,δ56.00000°,λ-101.00000°. NP2:ϕ_s12.00000°,δ35.00000°,λ-75.00000°. Principal axes: T Plg11.0000°,Azm271.0000°; N Plg9.0000°,Azm179.0000°; P Plg76.0000°,Azm51.0000°
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.2km az=126.0.

ISC	**V**	**17 17 15 02.9–1.9**	**38.33N–.05**	**142.18E–.09**	**28–14**	**3.6b**	**24**	**1-62**	
IDC	V	17 17 14 59.5–1.8	38.12N	142.73E	0	3.6,3.5			**¶17203829**
NIED	V	17 17 15 00	38.40N	142.10E	38	3.5W,3.5			
JMA	V	17 17 15 04.6–.10	38.39N	142.07E	42–1	3.5,3.5			

ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=24.7km az=84.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ8.00000°,λ127.00000°. NP2:ϕ_s297.00000°,δ83.00000°,λ85.00000°. $M_0$1.79000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**17 19 34 28.7–1.2**	**36.81N–.04**	**140.78E–.05**	**10–7**	**4.0b**	**60**	**0-147**	
NIED	V	17 19 34 00	36.90N	140.70E	5	3.9W			**¶16710126**
IDC	V	17 19 34 27.7–.72	36.80N	140.72E	0	3.9,3.9b			
ISCJB	V	17 19 34 28.6–.59	36.84N–.03	140.86E–.05	21–3	4.1b,3.0s			
JMA	V	17 19 34 30.0	36.88N	140.69E	9–1	3.9,3.0s			
NEIC	V	17 19 34 32.7–.69	36.80N	140.75E	38–7	4.5b,3.0s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ29.00000°,λ-78.00000°. NP2:ϕ_s182.00000°,δ62.00000°,λ-97.00000°. $M_0$6.73000×10^{14}
IDC Error ellipse: s-maj=15.4km s-min=13.9km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.0km az=26.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ52.00000°,λ-89.00000°. NP2:ϕ_s2.00000°,δ38.00000°,λ-92.00000°. Principal axes: T Plg7.0000°,Azm273.0000°; N Plg1.0000°,Azm3.0000°; P Plg83.0000°,Azm101.0000°
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.8km az=107.0. Recorded [2 JMA] in Fukushima and Ibaraki.

JMA	**V**	**17 22 53 40.1–.10**	**36.22N**	**141.01E**	**36–1**	**3.5**			
NIED	V	17 22 53 00	36.20N	141.00E	17	3.3W			**¶600616797**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ50.00000°,λ-152.00000°. NP2:ϕ_s124.00000°,δ69.00000°,λ-44.00000°. $M_0$8.90000×10^{13}

ISC	**V**	**17 23 04 08.2–1.0**	**35.61N–.03**	**140.92E–.06**	**11–6**	**3.8b**	**24**	**0-65**	
NIED	V	17 23 04 00	35.60N	140.90E	11	4.0W			**¶17203844**
ISCJB	V	17 23 04 06.6–1.0	35.64N–.04	141.06E–.07	12–5	3.7b			
IDC	V	17 23 04 06.4–.91	35.54N	140.94E	0	3.9,3.7			
JMA	V	17 23 04 07.9–.10	35.63N	140.93E	16–1	3.8,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ37.00000°,λ-85.00000°. NP2:ϕ_s169.00000°,δ53.00000°,λ-94.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.8km az=171.0.
IDC Error ellipse: s-maj=24.5km s-min=20.6km az=85.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**17 23 36 12.9–1.9**	**39.23N–.04**	**142.41E–.07**	**16–11**	**3.6b**	**28**	**1-76**	
NIED	V	17 23 36 00	39.20N	142.40E	29	3.7W			**¶600616811**
JMA	V	17 23 36 13.9–.10	39.23N	142.38E	31–1	4.0			
IDC	V	17 23 36 19.4–2.5	39.19N	142.17E	76–24	3.6,3.5			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ36.00000°,λ-123.00000°. NP2:ϕ_s182.00000°,δ60.00000°,λ-68.00000°. $M_0$4.62000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=28.0km s-min=14.2km az=110.0.

JMA	**V**	**18 00 55 37.8–.10**	**36.16N**	**141.26E**	**47–2**	**3.5**			
NIED	V	18 00 55 00	36.20N	141.30E	11	3.3W			**¶600616867**

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ52.00000°,λ-173.00000°. NP2:ϕ_s76.00000°,δ84.00000°,λ-38.00000°. $M_0$1.16000×10^{14}

JMA	**V**	**18 01 33 08.6**	**36.79N**	**140.54E**	**8–1**	**2.9**			
									¶600616881

ISC	**V**	**18 02 31 52.3–1.1**	**36.51N–.08**	**141.50E–.08**	**26**	**3.6b**	**13**	**1-64**	
IDC	V	18 02 31 47.8–1.3	36.46N	141.77E	0	3.7,3.6b			**¶17203849**
ISCJB	V	18 02 31 50.1–1.0	36.54N–.07	141.67E–.08	26	3.6b,3.6b			
JMA	V	18 02 31 51.1–.30	36.54N	141.59E	55	3.3,3.6b			

ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=28.7km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=8.8km az=160.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

IDC	**V**	**18 02 43 48.9–12**	**36.63N**	**141.96E**	**0**	**3.5b,3.4**			
									¶17203850

IDC Error ellipse: s-maj=224.4km s-min=73.4km az=140.0.

JMA	**V**	**18 05 15 05.8–.10**	**38.24N**	**141.82E**	**57–1**	**3.8**			
NIED	V	18 05 15 00	38.20N	141.80E	32	3.7W			**¶600616977**

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s70.00000°,δ68.00000°,λ-162.00000°. NP2:ϕ_s333.00000°,δ73.00000°,λ-23.00000°. $M_0$4.52000×10^{14}

ISC	**V**	**18 05 26 05.2–1.9**	**37.22N–.04**	**141.19E–.09**	**11–10**	**3.6b**	**19**	**0-57**	
ISCJB	V	18 05 26 02.9–1.4	37.23N–.05	141.31E–.07	6–6	3.5b			**¶17203854**
IDC	V	18 05 26 02.7–2.0	37.26N	141.40E	0	3.6,3.5b			
JMA	V	18 05 26 06.3	37.24N	141.11E	15–1	3.4,3.5b			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=7.4km az=17.4.
IDC Error ellipse: s-maj=41.2km s-min=27.6km az=64.0.
JMA Event type fe.

ISC	**V**	**18 07 23 55.8–.51**	**37.15N–.04**	**141.58E–.05**	**44–4**	**4.4b,3.5s**	**131**	**1-147**	
NIED	V	18 07 23 00	37.20N	141.40E	47	4.3W,3.5s			**¶16525827**
MOS	V	18 07 23 53.5–.98	37.25N	141.53E	33	4.7b,3.5s			
ISCJB	V	18 07 23 54.3–.51	37.20N–.03	141.54E–.04	43–4	4.3b,3.5s			
NEIC	V	18 07 23 55.7–.33	37.23N	141.47E	35	4.6b,3.5s			
JMA	V	18 07 23 56.2–.10	37.22N	141.39E	48–1	4.2,3.5s			
IDC	V	18 07 23 57.6–.58	37.30N	141.40E	51–3	4.3,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ19.00000°,λ57.00000°. NP2:ϕ_s43.00000°,δ75.00000°,λ101.00000°. $M_0$3.03000×10^{15}
MOS Error ellipse: s-maj=8.4km s-min=5.8km az=100.2.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=28.7.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=135.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=7.7km az=153.0.

ISC	**V**	**18 09 11 20.2–1.1**	**38.16N–.04**	**141.74E–.08**	**54–10**	**3.7b**	**36**	**0-89**	
NIED	V	18 09 11 00	38.20N	141.60E	68	3.8W			**¶17203869**
ISCJB	V	18 09 11 19.7–.67	38.18N–.04	141.70E–.08	66–5	3.6b			
IDC	V	18 09 11 21.3–2.8	38.20N	141.70E	66–27	3.7,3.6			
JMA	V	18 09 11 21.1	38.21N	141.61E	60–1	3.9,3.6			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ40.00000°,λ95.00000°. NP2:ϕ_s9.00000°,δ50.00000°,λ86.00000°. $M_0$5.40000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.7km az=11.4.
IDC Error ellipse: s-maj=23.9km s-min=16.4km az=86.0.
JMA Event type fe.

ISC	**V**	**18 09 54 16.8–1.9**	**38.98N–.04**	**142.43E–.08**	**24–13**	**3.6b**	**30**	**1-63**	
NIED	V	18 09 54 00	39.00N	142.50E	14	3.6W			**¶17203871**
JMA	V	18 09 54 16.8–.10	39.04N	142.47E	29–2	3.8			
ISCJB	V	18 09 54 17.1–1.2	39.00N–.04	142.5E–.10	42–12	3.5b			
IDC	V	18 09 54 19.2–2.8	38.94N	142.56E	47–28	3.5,3.5			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ33.00000°,λ-170.00000°. NP2:ϕ_s117.00000°,δ85.00000°,λ-57.00000°. $M_0$2.84000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=6.1km az=18.3.
IDC Error ellipse: s-maj=37.6km s-min=13.9km az=111.0.

ISC	**V**	**18 10 36 32.6–.56**	**35.52N–.04**	**140.95E–.06**	**33**	**3.7s,3.7b**	**34**	**0-148**	
NIED	V	18 10 36 00	35.50N	141.10E	44	4.6W,3.7b			**¶17203872**
JMA	V	18 10 36 32.1–.10	35.50N	141.12E	35–1	3.6,3.7b			
IDC	V	18 10 36 36.0–2.2	35.44N	140.74E	60–21	3.7,3.7s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ25.00000°,λ66.00000°. NP2:ϕ_s16.00000°,δ67.00000°,λ101.00000°. $M_0$7.53000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=12.1km az=80.0.

ISC	**V**	**18 11 16 37.5–1.8**	**38.35N–.04**	**142.19E–.06**	**6–12**	**3.7b**	**24**	**1-62**	
NIED	V	18 11 16 00	38.40N	142.20E	32	3.5W			**¶17203875**
IDC	V	18 11 16 36.9–1.3	38.21N	143.09E	0	3.7,3.7			
JMA	V	18 11 16 41.5–.10	38.41N	142.13E	31–1	4.0,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ39.00000°,λ-24.00000°. NP2:ϕ_s255.00000°,δ75.00000°,λ-127.00000°. $M_0$1.93000×10^{14}
IDC Error ellipse: s-maj=39.1km s-min=19.3km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**18 11 48 27.4–.87**	**36.61N–.04**	**141.01E–.06**	**43–7**	**4.2b,3.4s**	**71**	**0-91**	
NIED	V	18 11 48 00	36.60N	141.10E	50	4.2W,3.4s			**¶16529248**
ISCJB	V	18 11 48 26.4–.50	36.60N–.03	141.07E–.05	52–3	4.2b,3.3s			
NEIC	V	18 11 48 26.7–.34	36.62N	141.07E	35	4.5b,3.3s			
JMA	V	18 11 48 27.7–.10	36.60N	140.97E	48–1	4.2,3.3s			
IDC	V	18 11 48 31.4–1.6	36.51N	140.81E	79–15	4.1,4.0			

ISC Event type fe.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s80.00000°,δ2.00000°,λ-51.00000°. NP2:ϕ_s221.00000°,δ89.00000°,λ-91.00000°. $M_0$1.92000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.3km az=18.8.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=101.0. Felt at Noda. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=8.4km az=70.0.

JMA	**V**	**18 12 58 59.4–.10**	**39.94N**	**142.43E**	**38–1**	**3.5**			
NIED	V	18 12 58 00	39.90N	142.40E	44	3.5W			**¶600617218**

NIED Moment Tensor Solution. Double couple: NP1:ϕ_s187.00000°,δ35.00000°,λ30.00000°. NP2:ϕ_s72.00000°,δ73.00000°,λ122.00000°. $M_0$2.17000×10^{14}

ISC	**V**	**18 13 32 43.0–.98**	**36.91N–.03**	**140.72E–.05**	**10–6**	**4.3b,3.2s**	**93**	**0-147**	
NIED	V	18 13 32 00	36.90N	140.70E	5	4.0W,3.2s			**¶600617234**
IDC	V	18 13 32 41.7–.55	36.87N	140.49E	0	4.2,4.1			
ISCJB	V	18 13 32 42.5–.60	36.91N–.03	140.84E–.05	19–3	4.3b,3.5s			
JMA	V	18 13 32 43.3	36.93N	140.70E	8–1	4.3,3.5s			
NEIC	V	18 13 32 47.0–.71	36.93N	140.67E	38–6	4.5b,3.5s			

ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s140.00000°,δ41.00000°,λ-86.00000°. NP2:ϕ_s316.00000°,δ49.00000°,λ-93.00000°. $M_0$1.08000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=12.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.9km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s286.00000°,δ47.00000°,λ-84.00000°. NP2:ϕ_s97.00000°,δ43.00000°,λ-97.00000°. Principal axes: T Plg2.0000°,Azm12.0000°; N Plg5.0000°,Azm102.0000°; P Plg85.0000°,Azm259.0000°

NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=115.0. Recorded [2 JMA] in Fukushima.
ISC V 18 13 55 12.6–1.9 38.30N–.04 142.09E–.07 7–11 3.7b 25 1-62
NIED V 18 13 55 00 38.40N 142.20E 23 3.5W **¶600617248**
IDC V 18 13 55 14.6–2.2 37.85N 142.75E 0 3.7,3.6
JMA V 18 13 55 15.8–.10 38.38N 142.17E 32–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ60.00000°,λ-146.00000°. NP2:ϕ_s149.00000°,δ61.00000°,λ-35.00000°. $M_0$2.27000×10^{14}
IDC Error ellipse: s-maj=48.5km s-min=28.9km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 18 18 59 28.9–.10 35.18N 140.07E 13–3 2.9
¶600617435
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 18 20 26 15.8–2.9 38.34N–.05 142.30E–.09 13–15 21 1-58
NIED V 18 20 26 00 38.30N 142.30E 38 4.0W **¶17203908**
IDC V 18 20 26 10.4–3.1 38.53N 143.50E 0 3.6,3.4b
ISCJB V 18 20 26 15.3–1.5 38.26N–.05 142.30E–.09 21–8 3.2b,3.4b
JMA V 18 20 26 16.8–.10 38.34N 142.28E 30–2 3.7,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ14.00000°,λ-154.00000°. NP2:ϕ_s343.00000°,δ84.00000°,λ-77.00000°. $M_0$1.33000×10^{15}
IDC Error ellipse: s-maj=72.4km s-min=39.9km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.8km az=11.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 18 20 39 24.6–2.2 38.37N–.05 141.96E–.10 18–13 20 0-44
IDC V 18 20 39 26.9–3.3 38.34N 142.04E 58–32 3.6,3.4 **¶17203909**
JMA V 18 20 39 27.9–.10 38.40N 141.78E 58–1 4.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=17.7km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 18 21 46 16.6 36.73N 140.64E 6–1 2.5
¶600617550
ISC V 18 23 17 30.2–.52 37.82N–.03 141.98E–.04 10 4.3b 74 1-146
NIED V 18 23 17 00 37.80N 142.00E 8 4.1W **¶600617593**
ISCJB V 18 23 17 28.7–.37 37.77N–.03 142.07E–.03 10 4.4b,3.5s
IDC V 18 23 17 29.4–.73 37.82N 141.98E 0 4.1,4.0
JMA V 18 23 17 30.9–.10 37.77N 141.97E 24–2 4.2,4.0
NEIC V 18 23 17 30.5–3.6 37.79N 142.10E 11–22 4.8b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ-38.00000°. NP2:ϕ_s274.00000°,δ76.00000°,λ-109.00000°. $M_0$1.46000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=140.9.
IDC Error ellipse: s-maj=19.4km s-min=15.0km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=7.2km az=120.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
ISC V 19 03 41 48.8–1.1 40.90N–.04 142.06E–.07 57–11 4.4b 21 1-66
NIED V 19 03 41 00 40.90N 142.10E 56 3.7W **¶17203938**
ISCJB V 19 03 41 48.2–.69 40.91N–.04 142.06E–.09 65–7 4.2b
JMA V 19 03 41 48.4–.10 40.91N 142.13E 52–2 3.8
IDC V 19 03 41 51.7–3.4 41.06N 141.81E 70–27 3.9b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ61.00000°,λ-6.00000°. NP2:ϕ_s260.00000°,δ85.00000°,λ-151.00000°. $M_0$3.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.9km az=15.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=92.9km s-min=18.9km az=110.0.
JMA V 19 04 27 21.0–.10 39.09N 142.39E 31–1 3.5
¶600617740
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 19 08 32 48.1–.42 38.37N–.03 141.90E–.03 54–3 4.8b,4.0s 387 0-155
NIED V 19 08 32 00 38.30N 141.80E 59 4.7W,4.0s **¶16528332**
MOS V 19 08 32 48.5–.95 38.62N 141.67E 53 5.0b,4.0s
ISCJB V 19 08 32 48.9–.32 38.39N–.02 141.70E–.03 64–2 4.8b,4.0s
IDC V 19 08 32 49.8–1.5 38.32N 141.81E 66–13 4.5,4.4
NEIC V 19 08 32 49.9–.57 38.35N 141.66E 60–5 4.8b,4.4
JMA V 19 08 32 49.1 38.33N 141.78E 60–1 4.8,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ20.00000°,λ103.00000°. NP2:ϕ_s265.00000°,δ71.00000°,λ85.00000°. $M_0$1.47000×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.6km az=97.4.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=38.2.
IDC Error ellipse: s-maj=14.0km s-min=10.1km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.6km az=127.0. Recorded [3 JMA] in Iwate and Miyagi.
JMA Event type fe.
ISC V 19 09 58 23.6–1.3 36.69N–.04 141.18E–.08 41–11 3.8b 32 0-147
NIED V 19 09 58 00 36.70N 141.00E 32 3.7W **¶600617887**
ISCJB V 19 09 58 22.4–.74 36.68N–.03 141.22E–.08 48–6 3.8b
JMA V 19 09 58 24.7–.10 36.71N 141.04E 48–1 3.7
IDC V 19 09 58 27.7–2.4 36.55N 140.98E 80–22 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ43.00000°,λ54.00000°. NP2:ϕ_s39.00000°,δ56.00000°,λ119.00000°. $M_0$3.66000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=5.5km az=13.9.
JMA Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=10.5km az=64.0.
JMA V 19 10 13 38.4–.20 35.96N 141.76E 28–3 2.7
¶600617895
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 19 10 25 12.0–2.0 37.39N–.04 141.98E–.06 4–11 3.9b 44 1-146
NIED V 19 10 25 00 37.40N 142.00E 11 3.8W **¶17203963**
ISCJB V 19 10 25 12.3–1.1 37.37N–.03 142.06E–.06 15–7 3.8b,3.6s
JMA V 19 10 25 14.2–.20 37.45N 141.97E 25–3 3.9,3.6s
IDC V 19 10 25 17.4–3.4 37.38N 141.95E 35–27 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ33.00000°,λ-134.00000°. NP2:ϕ_s94.00000°,δ67.00000°,λ-65.00000°. $M_0$5.02000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.4km az=14.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=13.8km az=99.0.
JMA V 19 10 47 43.8–.10 35.85N 140.89E 36–1 2.6
¶600617920
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 19 12 12 16.0–1.7 36.03N–.04 141.16E–.06 3–11 3.8b,3.6s 35 0-147
NIED V 19 12 12 00 36.00N 141.20E 47 4.1W,3.6s **¶16710294**
ISCJB V 19 12 12 15.8–1.0 36.01N–.03 141.29E–.07 17–7 3.8b,3.6s
IDC V 19 12 12 15.6–.69 35.98N 141.13E 0 3.9,3.9b
JMA V 19 12 12 18.2–.10 35.99N 141.10E 34–2 4.1,3.9b
NEIC V 19 12 12 20.5–.45 35.95N 141.09E 35 4.1b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ15.00000°,λ-126.00000°. NP2:ϕ_s12.00000°,δ78.00000°,λ-81.00000°. $M_0$1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.5km az=3.7.
IDC Error ellipse: s-maj=18.0km s-min=13.9km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=8.8km az=79.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISC V 19 13 42 27.7–.57 36.71N–.03 140.54E–.05 10 3.5b 29 0-91
ISCJB V 19 13 42 26.0–.45 36.70N–.03 140.64E–.05 10 3.5b **¶16530091**
JMA V 19 13 42 26.2 36.70N 140.63E 6–1 3.2
IDC V 19 13 42 26.3–.65 36.70N 140.51E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=19.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s0.00000°,δ56.00000°,λ-74.00000°. NP2:ϕ_s152.00000°,δ37.00000°,λ-113.00000°. Principal axes: T Plg10.0000°,Azm78.0000°; N Plg14.0000°,Azm170.0000°; P Plg73.0000° ,Azm313.0000°
IDC Error ellipse: s-maj=19.6km s-min=14.8km az=118.0.
ISC V 19 14 01 45.8–1.5 38.57N–.05 142.0E–.10 45–14 3.9b 18 0-59
NIED V 19 14 01 00 38.60N 141.90E 53 3.9W **¶17203973**
ISCJB V 19 14 01 44.6–1.1 38.56N–.05 142.0E–.10 50–9 3.7b
IDC V 19 14 01 46.8–2.4 38.55N 142.13E 63–22 3.7,3.5
JMA V 19 14 01 46.6–.10 38.62N 141.89E 47–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ21.00000°,λ109.00000°. NP2:ϕ_s27.00000°,δ70.00000°,λ83.00000°. $M_0$6.75000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=16.3km s-min=7.1km az=17.8.
IDC Error ellipse: s-maj=35.9km s-min=15.4km az=99.0.
JMA Event type fe.
JMA V 19 15 48 18.3–.10 39.71N 142.13E 46–1 3.5
NIED V 19 15 48 00 39.70N 142.10E 65 3.6W **¶600618150**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ18.00000°,λ78.00000°. NP2:ϕ_s341.00000°,δ73.00000°,λ94.00000°. $M_0$3.25000×10^{14}
ISC V 19 19 41 59.1–1.8 37.22N–.04 141.19E–.08 9–10 3.4b 24 0-57
NIED V 19 19 41 00 37.20N 141.10E 5 3.5W **¶17203991**
ISCJB V 19 19 41 57.9–1.2 37.22N–.04 141.25E–.07 12–5 3.4b
IDC V 19 19 41 57.8–1.2 37.19N 141.14E 0 3.5,3.5
JMA V 19 19 41 59.8 37.23N 141.14E 13–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ38.00000°,λ-136.00000°. NP2:ϕ_s67.00000°,δ65.00000°,λ-61.00000°. $M_0$2.26000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.8km az=9.1.
IDC Error ellipse: s-maj=22.3km s-min=16.4km az=139.0.
JMA Event type fe.
ISC V 19 22 02 05.7–.84 38.80N–.05 142.43E–.06 26–4 3.7b 29 1-63
NIED V 19 22 02 00 38.80N 142.40E 35 4.1W **¶17203996**
ISCJB V 19 22 02 05.9–1.2 38.80N–.05 142.5E–.10 44–10 3.7b
JMA V 19 22 02 06.3–.10 38.83N 142.41E 34–2 3.8
IDC V 19 22 02 07.1–.91 38.71N 142.55E 41–8 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ24.00000°,λ37.00000°. NP2:ϕ_s332.00000°,δ76.00000°,λ110.00000°. $M_0$1.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=7.0km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.0km s-min=15.8km az=96.0.
ISC V 19 23 46 36.3–2.1 38.36N–.05 142.21E–.09 17–11 21 1-58
NIED V 19 23 46 00 38.40N 142.20E 11 3.8W **¶600618580**
ISCJB V 19 23 46 36.7–1.4 38.36N–.05 142.27E–.09 25–8 3.6b
IDC V 19 23 46 37.5–3.1 37.81N 142.70E 0 3.6b,3.6
JMA V 19 23 46 38.2–.10 38.43N 142.21E 29–2 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s291.00000°,δ16.00000°,λ53.00000°. NP2:ϕ_s149.00000°,δ77.00000°,λ100.00000°. $M_0$5.82000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=8.0km az=16.5.
IDC Error ellipse: s-maj=72.3km s-min=37.9km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 19 23 52 51.5 36.94N 140.74E 12–1 3.5
¶600618583
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s350.00000°,δ53.00000°,λ-109.00000°. NP2:ϕ_s199.00000°,δ41.00000°,λ-67.00000°. Principal axes: T Plg6.0000°,Azm93.0000°; N Plg15.0000°,Azm1.0000°; P Plg74.0000° ,Azm204.0000°
ISC V 20 00 02 13.3–1.3 36.23N–.08 140.54E–.08 53–8 3.5b 22 0-56
IDC V 20 00 02 03.9–2.3 36.47N 141.18E 0 3.7,3.6 **¶17203999**
ISCJB V 20 00 02 12.3–.95 36.22N–.06 140.55E–.08 59–5 3.5b,3.6
JMA V 20 00 02 13.8–.10 36.25N 140.48E 52–1 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=58.0km s-min=26.8km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=8.4km az=137.7.
JMA Event type fe.
ISC V 20 00 46 16.4–.32 35.82N–.02 141.05E–.03 28–1 5.7b,5.4s 1986 0-162
NIED V 20 00 46 00 35.80N 141.30E 32 5.7W,5.4s **¶16529675**
IDC V 20 00 46 12.4–.33 35.78N 141.03E 0 5.5,5.5
BJI V 20 00 46 14.1 35.73N 141.02E 35 5.7s,5.6
MOS V 20 00 46 15.6–.86 35.78N 140.99E 33 6.0b,5.5s
JMA V 20 00 46 15.4–.10 35.80N 141.18E 36–1 5.8,5.5s
NEIC V 20 00 46 16.0–.00 35.94N 141.38E 26 5.8,5.5s
NEIC V 20 00 46 16.9–.10 35.76N 140.84E 29 5.8W,5.7
GCMT V 20 00 46 17.0–.10 35.74N 141.22E 37–0 5.8W,5.7
ISCJB V 20 00 46 17.0–.24 35.73N–.01 140.91E–.01 43–2 5.7b,5.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s13.00000°,δ74.00000°,λ93.00000°. $M_0$3.95000×10^{17}
JMA Event type fe.
NEIC Event type se. Moment Tensor Solution. s31 Moment tensor: Scale 10^{17}Nm; M_{rr}3.00 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-2.80 $M_{r\theta}$2.90 $M_{\theta\phi}$-0.70 $M_{\phi r}$5.70 Best double couple: NP1:ϕ_s25.00000° ,δ77.00000°,λ95.00000°. NP2:ϕ_s183.00000°,δ13.00000°,λ68.00000°. Principal axes: T 7.1000,Plg57.0000°,Azm301.0000°; N -0.1000,Plg4.0000°,Azm204.0000° ; P -7.0000,Plg32.0000°,Azm111.0000° $M_0$7.00000×10^{17}
NEIC Event type fe. Felt [II] at Tokyo. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba and Ibaraki. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s52 Moment tensor: Scale 10^{17} Nm; M_{rr}2.68 $M_{\theta\theta}$-1.21 $M_{\phi\phi}$-1.46 $M_{r\theta}$1.03 $M_{\theta\phi}$0.35 $M_{\phi r}$2.59 Best double couple: NP1: ϕ_s168.00000°,δ20.00000°,λ67.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ98.00000°. Principal axes: T 4.1400,Plg62.0000°,Azm295.0000°; N -1.4200,Plg8.0000°,Azm190.0000° ; P -2.7200,Plg26.0000°,Azm96.0000° $M_0$3.60000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c236; s130,c345;Duration: 1s9 Moment tensor: Scale 10^{17} Nm; M_{rr}4.38±.05 $M_{\theta\theta}$-0.50±.04; $M_{\phi\phi}$-3.88±.04; $M_{r\theta}$1.02±.05; $M_{\theta\phi}$-1.34±.03; $M_{\phi r}$3.63±.06; Best double couple: NP1:ϕ_s17.00000°,δ65.00000°,λ88.00000°. NP2:ϕ_s201.00000° ,δ25.00000°,λ94.00000°. Principal axes: T 5.7870,Plg70.0000°,Azm283.0000° ; N -0.0370,Plg2.0000°,Azm18.0000°; P -5.7460,Plg20.0000°,Azm108.0000° $M_0$5.76700×10^{17}
ISCJB Event type fe.
JMA V 20 01 40 30.6–.20 37.39N 141.96E 26–3 3.5
¶600618635
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 20 02 59 23.1–.30 38.17N 142.99E 15–4 3.6
¶600618670
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 20 03 50 17.9–.77 37.04N–.04 141.34E–.07 39–3 4.2b 38 0-147
NIED V 20 03 50 00 37.10N 141.20E 59 3.9W **¶16591596**
ISCJB V 20 03 50 17.1–.69 37.05N–.04 141.34E–.07 50–5 4.0b
NEIC V 20 03 50 18.4–.76 37.03N 141.30E 44–7 4.3b
IDC V 20 03 50 19.2–1.8 37.04N 141.26E 46–17 3.8,3.8L
JMA V 20 03 50 19.2–.10 37.07N 141.17E 50–1 3.9,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ18.00000°,λ85.00000°. NP2:ϕ_s13.00000°,δ72.00000°,λ92.00000°. $M_0$7.40000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.4km az=17.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.8km az=105.0.
IDC Error ellipse: s-maj=16.6km s-min=12.5km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 20 04 48 02.8–.99 36.66N–.05 140.48E–.06 6–8 3.7b 15 0-65
ISCJB V 20 04 48 01.7–1.1 36.62N–.07 140.70E–.09 12–4 3.6b **¶17204014**
IDC V 20 04 48 02.1–1.1 36.73N 140.56E 0 3.7,3.6
JMA V 20 04 48 03.0 36.68N 140.56E 3–1 3.4,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=7.0km az=41.0.
IDC Error ellipse: s-maj=22.1km s-min=14.2km az=161.0.
JMA Event type fe.
ISC V 20 07 08 50.3–.79 37.39N–.04 141.62E–.06 10 3.7b 28 1-90
NIED V 20 07 08 00 37.40N 141.60E 5 3.6W **¶17204020**
IDC V 20 07 08 48.3–1.0 37.18N 141.86E 0 3.8,3.7b
ISCJB V 20 07 08 49.2–.66 37.38N–.04 141.65E–.05 10 3.6b,3.7b
JMA V 20 07 08 49.9–.20 37.40N 141.62E 21–2 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ45.00000°,λ-55.00000°. NP2:ϕ_s19.00000°,δ55.00000°,λ-120.00000°. $M_0$2.44000×10^{14}

IDC Error ellipse: s-maj=26.1km s-min=21.8km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.5km az=41.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 20 07 24 40.7–2.4 37.26N–.06 141.78E–.08 2–13 3.6b 21 1-57
NIED V 20 07 24 00 37.30N 141.60E 47 3.6W **¶17204021**
IDC V 20 07 24 39.4–2.0 37.44N 142.08E 0 3.6,3.6b
JMA V 20 07 24 46.3–.10 37.29N 141.61E 45–2 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ11.00000°,λ18.00000°. NP2:ϕ_s36.00000°,δ87.00000°,λ100.00000°. $M_0$2.55000×10^{14}
IDC Error ellipse: s-maj=42.4km s-min=29.2km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 20 07 28 45.6–.25 37.46N–.03 141.59E–.03 28–1 5.2b,4.4s 916 1-150
NIED V 20 07 28 00 37.50N 141.50E 41 5.0W,4.4s **¶16530103**
BJI V 20 07 28 43.2 37.12N 141.51E 37 5.1b,4.9b
MOS V 20 07 28 44.4–1.1 37.49N 141.53E 33 5.3b,4.2s
ISCJB V 20 07 28 45.8–.39 37.43N–.02 141.46E–.02 38–3 5.1b,4.4s
JMA V 20 07 28 46.4–.10 37.45N 141.48E 41–2 5.2,4.4s
IDC V 20 07 28 47.2–.29 37.45N 141.51E 40–2 4.7,4.5
GCMT V 20 07 28 48.2–.20 37.49N 141.54E 41–1 5.1W,4.5
NEIC V 20 07 28 48.1–.46 37.44N 141.41E 43–4 5.2b,4.5
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ64.00000°,λ-20.00000°. NP2:ϕ_s298.00000°,δ72.00000°,λ-152.00000°. $M_0$3.92000×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=95.4.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=138.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=7.9km s-min=6.2km az=109.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c51; s100,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.51±.20 $M_{\theta\theta}$-1.83±.13; $M_{\phi\phi}$3.34±.14; $M_{r\theta}$2.85±.13; $M_{\theta\phi}$-2.72±.09; $M_{\phi r}$0.13±.11; Best double couple: NP1:ϕ_s298.00000°,δ73.00000°,λ-144.00000°. NP2:ϕ_s195.00000°,δ56.00000°,λ-21.00000°. Principal axes: T 4.6980,Plg11.0000°,Azm63.0000°; N 0.3660,Plg50.0000°,Azm320.0000°; P -5.0650,Plg38.0000°,Azm161.0000° $M_0$4.88200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=134.0. Felt at Fuchu, Narita and Tsukuba. Recorded [4 JMA] in Fukushima.
ISC V 20 08 53 03.2–.47 35.91N–.03 140.09E–.03 71–3 4.8b 529 0-152
NIED V 20 08 53 00 36.00N 140.10E 68 4.7W **¶16530156**
IDC V 20 08 53 03.1–1.6 35.93N 140.06E 66–13 4.7,4.4
JMA V 20 08 53 03.9–.10 35.99N 140.09E 64–1 4.6,4.4
ISCJB V 20 08 53 03.3–.25 35.90N–.02 139.96E–.02 78–2 4.7b,4.4
NEIC V 20 08 53 05.2–.45 35.91N 139.93E 81–4 4.7b,4.4
MOS V 20 08 53 05.5–.89 36.33N 139.91E 81 4.9b,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s4.00000°,δ68.00000°,λ90.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=8.8km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000°,δ61.00000°,λ86.00000°. NP2:ϕ_s187.00000°,δ29.00000°,λ98.00000°. Principal axes: T Plg74.0000°,Azm258.0000°; N Plg4.0000°,Azm1.0000°; P Plg16.0000°,Azm92.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.1km az=38.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.9km az=137.0. Felt [II] at Tokyo. Also felt in Chiba, Kanagawa, Saitama and Tokyo. Recorded [4 JMA] in Ibaraki.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=110.9.
ISC V 20 11 04 23.0–1.2 35.84N–.05 141.04E–.09 28–8 16 0-60
IDC V 20 11 04 19.6–1.8 35.72N 141.09E 0 3.6,3.6 **¶17204032**
ISCJB V 20 11 04 21.5–1.0 35.81N–.04 141.1E–.10 34–10 3.6b,3.6
JMA V 20 11 04 24.0–.10 35.82N 140.92E 30–1 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=42.4km s-min=23.5km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=7.0km az=167.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 20 11 16 02.0–1.5 36.29N–.04 141.17E–.06 24–11 3.9b 35 1-71
NIED V 20 11 16 00 36.30N 141.00E 38 3.9W **¶17204034**
JMA V 20 11 16 03.7–.10 36.32N 141.05E 45–2 3.9
IDC V 20 11 16 04.7–1.9 36.31N 141.14E 42–18 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ16.00000°,λ153.00000°. NP2:ϕ_s17.00000°,δ83.00000°,λ76.00000°. $M_0$6.83000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=10.1km az=92.0.
ISC V 20 11 42 15.8–1.4 38.16N–.05 141.80E–.09 48–11 4.0b 43 0-84
NIED V 20 11 42 00 38.20N 141.70E 56 4.0W **¶17204037**
ISCJB V 20 11 42 14.8–.74 38.17N–.04 141.79E–.08 56–5 4.0b,3.3s
IDC V 20 11 42 16.6–2.2 38.21N 141.86E 56–19 3.9,3.8
JMA V 20 11 42 16.3–.10 38.18N 141.70E 51–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ22.00000°,λ90.00000°. NP2:ϕ_s12.00000°,δ68.00000°,λ90.00000°. $M_0$1.25000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=4.6km az=21.7.
IDC Error ellipse: s-maj=22.9km s-min=13.7km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 20 12 31 21.5–1.3 38.71N–.04 141.76E–.08 63–9 29 0-59
ISCJB V 20 12 31 20.4–.77 38.72N–.04 141.74E–.07 68–6 3.9b **¶17204042**
IDC V 20 12 31 20.4–3.4 38.64N 142.19E 58–39 3.7,3.6
JMA V 20 12 31 21.7 38.73N 141.65E 64–1 3.4,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.1km az=18.1.
IDC Error ellipse: s-maj=61.6km s-min=27.7km az=110.0.
JMA Event type fe.
JMA V 20 12 49 50.2–.10 37.44N 141.49E 40–2 3.6
NIED V 20 12 49 00 37.40N 141.50E 50 3.5W **¶600618988**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ47.00000°,λ-14.00000°. NP2:ϕ_s296.00000°,δ80.00000°,λ-136.00000°. $M_0$1.90000×10^{14}
JMA V 20 12 59 02.4–.10 37.45N 141.47E 39–2 3.5
NIED V 20 12 59 00 37.50N 141.50E 44 3.5W **¶600618995**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ55.00000°,λ171.00000°. NP2:ϕ_s49.00000°,δ83.00000°,λ35.00000°. $M_0$2.03000×10^{14}
ISC V 20 15 30 27.3–1.5 35.51N–.05 141.3E–.10 25 14 0-59
JMA V 20 15 30 24.2–.20 35.56N 141.45E 11–2 3.0 **¶17204051**
ISCJB V 20 15 30 26.1–1.2 35.49N–.05 141.3E–.10 25 3.6b
IDC V 20 15 30 27.4–2.7 35.31N 140.96E 0 3.6,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=6.3km az=161.4.
IDC Error ellipse: s-maj=56.6km s-min=30.6km az=67.0.
ISC V 20 16 43 23.2–1.7 35.9N–.10 141.5E–.10 26 10 3-56
IDC V 20 16 43 19.9–2.5 35.83N 141.44E 0 3.6,3.5 **¶17204058**
ISCJB V 20 16 43 20.9–1.4 35.84N–.07 141.6E–.10 26 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC V 20 17 08 43.2–2.9 35.86N 141.95E 0 3.3,3.2
¶17204059
IDC Error ellipse: s-maj=82.7km s-min=29.1km az=60.0.
ISC V 20 18 01 25.4–.97 36.92N–.03 140.62E–.05 12–8 18 0-61
IDC V 20 18 01 23.5–1.7 36.87N 140.72E 0 3.5,3.5 **¶600619272**
ISCJB V 20 18 01 24.6–.65 36.91N–.04 140.75E–.06 19–6 3.5b,3.5
JMA V 20 18 01 25.5 36.93N 140.62E 9–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=22.1km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=14.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s217.00000°,δ72.00000°,λ-88.00000°. NP2:ϕ_s32.00000°,δ18.00000°,λ-95.00000°. Principal axes: T Plg27.0000°,Azm306.0000°; N Plg2.0000°,Azm37.0000°; P Plg63.0000°,Azm130.0000°
ISC V 20 18 32 02.8–2.8 38.94N–.05 142.5E–.10 23–18 3.5b 23 1-63
NIED V 20 18 32 00 39.00N 142.40E 35 3.6W **¶17204069**
ISCJB V 20 18 32 03.1–1.3 38.93N–.05 142.48E–.08 32–8 3.7s,3.5b
JMA V 20 18 32 04.0–.10 38.98N 142.44E 31–2 3.9,3.5b
IDC V 20 18 32 06.0–2.9 38.91N 142.60E 47–26 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ18.00000°,λ-86.00000°. NP2:ϕ_s148.00000°,δ72.00000°,λ-91.00000°. $M_0$3.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=7.8km az=18.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=43.7km s-min=23.1km az=87.0.
ISC V 20 20 20 52.2–.99 35.83N–.04 140.90E–.07 25–6 3.5b 20 0-148
IDC V 20 20 20 48.5–1.1 35.74N 140.94E 0 3.6,3.6 **¶17204077**
ISCJB V 20 20 20 50.6–.92 35.84N–.05 141.00E–.08 30–4 3.5b,3.6
JMA V 20 20 20 51.7–.10 35.82N 140.91E 29–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=17.0km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=7.0km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 20 20 22 29.6–1.2 36.92N–.04 140.48E–.04 4–9 3.7b 23 0-91
IDC V 20 20 22 28.6–1.1 36.90N 140.54E 0 3.7,3.6 **¶17204078**
ISCJB V 20 20 22 29.7–.70 36.90N–.03 140.60E–.05 15–5 3.5b,3.6
JMA V 20 20 22 30.0 36.89N 140.54E 7–1 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=14.9km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.2km az=22.3.
JMA Event type fe.
JMA V 20 21 44 33.7–.10 36.22N 140.98E 44–1 3.0
¶600619412
ISC V 20 22 10 53.7–.83 36.00N–.03 141.87E–.03 24–5 4.7b,4.1s 321 1-147
NIED V 20 22 10 00 36.10N 142.00E 11 4.5W,4.1s **¶16531576**
IDC V 20 22 10 50.4–.48 36.02N 141.87E 0 4.3,4.3
JMA V 20 22 10 52.3–.30 36.08N 141.97E 42 4.5,4.3
ISCJB V 20 22 10 52.7–.75 35.97N–.02 141.85E–.03 28–5 4.7b,4.1s
MOS V 20 22 10 53.5–.95 36.04N 141.83E 33 4.9b,4.1s
NEIC V 20 22 10 54.0–1.2 35.97N 141.81E 23–9 4.8b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ19.00000°,λ129.00000°. NP2:ϕ_s6.00000°,δ76.00000°,λ78.00000°. $M_0$6.98000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=10.7km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.4km az=166.7.
MOS Error ellipse: s-maj=7.9km s-min=5.2km az=119.2.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.1km az=130.0.
ISC V 20 22 27 34.9–2.3 37.47N–.05 141.88E–.09 10–12 17 1-58
ISCJB V 20 22 27 34.4–2.3 37.45N–.04 141.96E–.09 11–18 3.1b **¶17204089**
JMA V 20 22 27 36.0–.10 37.47N 141.89E 23–2 2.9
IDC V 20 22 27 37.0–2.4 37.10N 141.94E 0 3.3,3.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=7.2km az=8.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=50.3km s-min=32.8km az=45.0.
ISC V 20 23 43 16.5–1.6 38.13N–.03 142.09E–.05 7–9 4.2b,3.2s 76 1-146
NIED V 20 23 43 00 38.20N 142.20E 5 4.2W,3.2s **¶16560110**
ISCJB V 20 23 43 14.7–1.2 38.16N–.03 142.20E–.04 5–7 4.2b,3.3s
JMA V 20 23 43 16.3–.10 38.17N 142.14E 14–1 4.5,3.3s
NEIC V 20 23 43 20.7–.74 38.10N 142.08E 35–6 4.5b,3.3s
IDC V 20 23 43 20.7–3.5 38.13N 141.98E 33–26 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ36.00000°,λ-98.00000°. NP2:ϕ_s177.00000°,δ55.00000°,λ-84.00000°. $M_0$2.30000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.3km az=25.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.4km az=118.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=15.2km s-min=13.4km az=105.0.
IDC V 20 23 51 48.2–11 36.26N 141.57E 0 3.4b,3.3
¶603241706
IDC Error ellipse: s-maj=209.4km s-min=81.6km az=149.0.
JMA V 20 23 52 07.5–.20 35.89N 140.85E 32–2 1.8
¶17204098
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 21 00 34 40.9–.10 38.75N 142.27E 39–2 3.6
¶600619526
JMA Event type fe.
ISC V 21 00 56 20.5–1.8 39.09N–.04 142.36E–.06 14–10 3.9b 31 1-66
NIED V 21 00 56 00 39.20N 142.40E 35 3.9W **¶600619536**
JMA V 21 00 56 22.4–.10 39.20N 142.39E 30–1 3.9
NEIC V 21 00 56 24.0–1.4 38.99N 142.75E 51–15 4.1b
IDC V 21 00 56 25.0–3.4 39.02N 142.57E 53–32 4.1,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ29.00000°,λ-145.00000°. NP2:ϕ_s171.00000°,δ74.00000°,λ-65.00000°. $M_0$8.91000×10^{14}
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=10.6km az=123.0.
IDC Error ellipse: s-maj=37.0km s-min=19.8km az=114.0.
ISC V 21 02 45 19.4–3.7 36.05N–.05 141.93E–.08 14–24 3.8b 29 1-81
NIED V 21 02 45 00 36.10N 141.80E 11 3.8W **¶17204105**
IDC V 21 02 45 17.5–.80 35.98N 141.86E 0 3.7,3.6
ISCJB V 21 02 45 18.5–1.5 36.04N–.04 141.99E–.07 23–11 4.0s,3.6b
JMA V 21 02 45 20.8–.20 36.06N 141.81E 55 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ41.00000°,λ-156.00000°. NP2:ϕ_s46.00000°,δ75.00000°,λ-51.00000°. $M_0$5.28000×10^{14}
IDC Error ellipse: s-maj=19.8km s-min=16.6km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.5km az=0.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 21 02 46 31.8–.10 38.25N 141.85E 47–1 3.7
NIED V 21 02 46 00 38.30N 141.80E 5 4.0W **¶600619605**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ7.00000°,λ120.00000°. NP2:ϕ_s337.00000°,δ84.00000°,λ86.00000°. $M_0$1.30000×10^{15}
ISC V 21 03 08 46.6–1.0 38.09N–.04 142.57E–.08 14 3.7b,3.4s 28 1-145
ISCJB V 21 03 08 45.2–.81 38.12N–.05 142.77E–.08 14 3.8b,3.3s **¶17204107**
JMA V 21 03 08 47.2–.20 38.14N 142.73E 38–4 4.0,3.3s
IDC V 21 03 08 59.8–2.6 37.74N 141.87E 112–24 3.7,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.7km az=169.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.5km s-min=15.9km az=74.0.
ISC V 21 03 40 45.0–1.0 37.08N–.04 141.26E–.07 43–8 4.0b 59 0-147
NIED V 21 03 40 00 37.10N 141.20E 47 4.1W **¶16560112**
ISCJB V 21 03 40 43.8–.61 37.06N–.03 141.30E–.07 51–4 4.0b,2.9s
NEIC V 21 03 40 45.0–.58 37.12N 141.22E 41–5 4.2b,2.9s
JMA V 21 03 40 45.7–.10 37.09N 141.16E 51–1 4.0,2.9s
IDC V 21 03 40 47.0–2.2 37.13N 141.08E 56–19 4.0,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ16.00000°,λ107.00000°. NP2:ϕ_s34.00000°,δ75.00000°,λ85.00000°. $M_0$1.82000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.2km az=5.1.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.5km az=112.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=14.4km az=100.0.
ISC V 21 03 46 42.1–1.6 35.55N–.04 141.40E–.07 25–11 3.9b 45 0-80
IDC V 21 03 46 39.1–.86 35.61N 141.37E 0 3.9,3.9 **¶600619623**
ISCJB V 21 03 46 40.7–1.1 35.59N–.03 141.46E–.06 28–7 3.9b,3.5s
NEIC V 21 03 46 44.5–.80 35.62N 141.37E 38–7 4.2b,3.5s
JMA V 21 03 46 45.0–.10 35.57N 141.03E 36–1 3.3,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=27.5km s-min=15.1km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.7km az=175.5.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.6km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA V 21 05 33 46.2–.10 39.10N 142.42E 32–2 3.5
¶600619653

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 21 05 35 26.2–.79 39.06N–.04 142.41E–.04 33–2 4.4b,3.8s 234 1-145
NIED V 21 05 35 00 39.10N 142.50E 29 4.4W,3.8s **¶16531792**
MOS V 21 05 35 23.3–1.0 39.09N 142.34E 24 4.6b,3.8s
JMA V 21 05 35 24.4–.10 39.09N 142.44E 30–1 4.4,3.8s
ISCJB V 21 05 35 25.7–.49 39.10N–.03 142.34E–.04 40–4 4.5b,3.7s
NEIC V 21 05 35 26.9–.19 39.11N 142.38E 35 4.6b,3.7s
IDC V 21 05 35 27.9–1.8 39.05N 142.37E 51–16 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ23.00000°,λ-109.00000°. NP2:ϕ_s170.00000°,δ68.00000°,λ-82.00000°. $M_0$3.78000×10^{15}
MOS Error ellipse: s-maj=8.6km s-min=5.9km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=137.7.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.2km az=151.0. Recorded [2 JMA] in Iwate.
IDC Error ellipse: s-maj=15.3km s-min=10.4km az=113.0.
JMA V 21 06 46 52.3–.20 38.97N 142.45E 28–2 3.7
¶600619679

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 21 08 39 39.4–2.3 39.09N–.04 142.5E–.10 11–13 24 1-59
IDC V 21 08 39 38.4–1.4 38.81N 143.05E 0 3.7,3.5b **¶17204122**
JMA V 21 08 39 42.0–.10 39.11N 142.40E 35–1 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=56.2km s-min=24.8km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 21 08 51 46.0–.39 35.94N–.04 140.43E–.04 50 4.5b,4.3s 173 0-151
NIED V 21 08 51 00 36.00N 140.40E 56 4.2W,4.3s **¶16531794**
ISCJB V 21 08 51 44.4–.26 35.89N–.03 140.43E–.04 50 4.4b,4.1s
MOS V 21 08 51 46.3–1.2 36.02N 140.46E 66 4.7b,4.1s
NEIC V 21 08 51 47.8–.63 35.92N 140.37E 63–5 4.8b,4.1s
JMA V 21 08 51 47.5–.10 36.01N 140.39E 55–1 3.6,4.1s
IDC V 21 08 51 48.7–1.4 35.92N 140.33E 71–13 4.2,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ29.00000°,λ112.00000°. NP2:ϕ_s3.00000°,δ63.00000°,λ78.00000°. $M_0$2.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.6km az=25.1.
MOS Error ellipse: s-maj=10.9km s-min=6.7km az=121.8.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.2km az=108.0. Felt at Narita. Recorded [2 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s34.00000°,δ74.00000°,λ103.00000°. NP2: ϕ_s175.00000°,δ20.00000°,λ52.00000°. Principal axes: T Plg59.0000°,Azm322.0000° ; N Plg12.0000°,Azm211.0000°; P Plg28.0000°,Azm114.0000°
IDC Error ellipse: s-maj=15.7km s-min=8.7km az=82.0.
JMA V 21 09 19 05.5–.10 39.12N 142.41E 33–2 3.5
NIED V 21 09 19 00 39.10N 142.40E 41 3.5W **¶600619759**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ42.00000°,λ-48.00000°. NP2:ϕ_s339.00000°,δ60.00000°,λ-121.00000°. $M_0$2.36000×10^{14}
ISC V 21 09 43 48.5–1.9 37.51N–.05 141.78E–.07 8–12 3.7b 23 1-63
NIED V 21 09 43 00 37.60N 141.70E 14 3.7W **¶16710495**
IDC V 21 09 43 49.2–1.0 37.45N 142.13E 0 3.9L,3.8
JMA V 21 09 43 51.6–.10 37.58N 141.70E 23–3 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ44.00000°,λ159.00000°. NP2:ϕ_s277.00000°,δ76.00000°,λ48.00000°. $M_0$3.41000×10^{14}
IDC Error ellipse: s-maj=30.3km s-min=18.2km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 21 10 24 42.8–.67 37.20N–.04 141.59E–.04 26–4 4.5b,3.5s 252 1-150
NIED V 21 10 24 00 37.20N 141.50E 32 4.3W,3.5s **¶16532336**
MOS V 21 10 24 41.5–1.0 37.24N 141.44E 27 4.6b,3.5s
ISCJB V 21 10 24 42.8–.19 37.23N–.03 141.53E–.02 32 4.5b,3.6s
JMA V 21 10 24 44.2–.10 37.19N 141.47E 48–2 4.4,3.6s
NEIC V 21 10 24 44.6–.16 37.20N 141.44E 35 4.6b,3.6s
IDC V 21 10 24 45.8–1.6 37.22N 141.47E 46–14 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ22.00000°,λ94.00000°. NP2:ϕ_s162.00000°,δ68.00000°,λ88.00000°. $M_0$3.44000×10^{15}
MOS Error ellipse: s-maj=8.3km s-min=5.3km az=93.3.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.5km az=158.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=143.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.6km s-min=9.4km az=106.0.
ISC V 21 10 42 26.8–.71 38.67N–.04 142.34E–.04 32–4 4.5b,3.6s 257 1-145
NIED V 21 10 42 00 38.70N 142.20E 41 4.4W,3.6s **¶16532337**
ISCJB V 21 10 42 26.6–.52 38.71N–.03 142.27E–.04 40–3 4.5b,3.6s
MOS V 21 10 42 28.3–.85 38.90N 142.06E 43 4.7b,3.6s
NEIC V 21 10 42 28.2–.24 38.78N 142.21E 35 4.6b,3.6s
JMA V 21 10 42 28.0–.10 38.70N 142.21E 40–2 4.4,3.6s
IDC V 21 10 42 29.4–1.5 38.70N 142.16E 48–13 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ74.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ95.00000°. $M_0$3.80000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=32.5.
MOS Error ellipse: s-maj=7.5km s-min=5.0km az=109.5.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.0km az=130.0. Recorded [2 JMA] in Iwate and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=10.2km az=115.0.
ISC V 21 12 04 51.2–1.1 38.22N–.04 141.78E–.08 54–10 3.7b 35 0-62
NIED V 21 12 04 00 38.20N 141.60E 50 3.5W **¶600619856**
ISCJB V 21 12 04 50.4–.72 38.22N–.03 141.77E–.08 68–6 3.5b
IDC V 21 12 04 50.0–1.7 38.22N 141.90E 47–16 3.7,3.6
JMA V 21 12 04 52.6 38.24N 141.62E 62–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ23.00000°,λ65.00000°. NP2: ϕ_s213.00000°,δ70.00000°,λ100.00000°. $M_0$1.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=5.6km az=8.3.
IDC Error ellipse: s-maj=32.2km s-min=11.3km az=93.0.
JMA Event type fe.
ISC V 21 14 16 17.2–1.3 38.24N–.05 142.0E–.10 38–2 3.4b 33 1-76
NIED V 21 14 16 00 38.20N 142.00E 44 3.6W **¶17204141**
IDC V 21 14 16 11.3–1.1 38.15N 142.28E 0 3.7,3.6
ISCJB V 21 14 16 16.4–.94 38.23N–.04 142.05E–.09 50–9 3.4b,3.6
JMA V 21 14 16 18.2–.10 38.28N 141.92E 52–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ47.00000°,λ127.00000°. NP2:ϕ_s186.00000°,δ55.00000°,λ57.00000°. $M_0$2.49000×10^{14}
IDC Error ellipse: s-maj=29.3km s-min=19.9km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=5.5km az=18.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 21 15 03 09.6–1.0 36.51N–.05 141.04E–.07 42–9 3.9b 43 0-117
NIED V 21 15 03 00 36.60N 140.90E 50 3.9W **¶16533357**
ISCJB V 21 15 03 08.5–.63 36.51N–.04 141.06E–.07 49–5 3.8b
JMA V 21 15 03 10.5–.10 36.54N 140.87E 51–1 4.1
IDC V 21 15 03 12.1–1.6 36.47N 140.90E 66–16 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ24.00000°,λ57.00000°. NP2:ϕ_s35.00000°,δ70.00000°,λ104.00000°. $M_0$7.11000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.3km az=20.9.
JMA Event type fe.
IDC Error ellipse: s-maj=13.8km s-min=9.8km az=70.0.
ISC V 21 17 37 03.5–1.4 36.32N–.04 141.18E–.06 27–10 4.2b 70 1-72
IDC V 21 17 36 59.8–1.0 36.26N 141.17E 0 3.9,3.8 **¶16710528**
NIED V 21 17 37 00 36.30N 141.00E 29 3.8W,3.8
ISCJB V 21 17 37 03.5–.59 36.34N–.03 141.20E–.05 44–5 4.3b,4.1s
NEIC V 21 17 37 05.6–.65 36.32N 141.21E 46–6 4.5b,4.1s
JMA V 21 17 37 05.1–.10 36.33N 141.01E 46–1 3.7,4.1s

ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=17.0km az=70.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ44.00000°,λ151.00000°. NP2:ϕ_s18.00000°,δ70.00000°,λ50.00000°. $M_0$5.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.3km az=11.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.8km az=103.0.
JMA Event type fe.
JMA V 21 21 16 07.0–.20 37.54N 141.95E 24–3 3.5
NIED V 21 21 16 00 37.50N 141.90E 5 3.4W **¶600620276**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ22.00000°,λ-93.00000°. NP2:ϕ_s47.00000°,δ68.00000°,λ-89.00000°. $M_0$1.19000×10^{14}
ISC V 21 22 06 25.8–.21 35.63N–.02 140.71E–.03 36–1 5.6b,5.0s 1701 0-166
NIED V 21 22 06 00 35.80N 140.70E 50 5.5W,5.0s **¶602607399**
BJI V 21 22 06 21.6 35.58N 140.90E 39 5.7b,5.4b
GCMT V 21 22 06 26.4–.20 35.64N 140.79E 49–0 5.5W,5.4b
NEIC V 21 22 06 26.0–.00 35.59N 140.73E 34 5.5W,5.4b
NEIC V 21 22 06 26.4–.38 35.60N 140.49E 37–3 5.6W,5.5b
MOS V 21 22 06 27.4–.81 36.01N 140.44E 42 5.8b,4.9s
JMA V 21 22 06 27.4–.10 35.73N 140.64E 48–1 5.5,4.9s
IDC V 21 22 06 29.0–1.2 35.66N 140.49E 57–10 5.4,5.2
ISCJB V 21 22 06 28.1–.22 35.61N–.02 140.46E–.02 61–1 5.6b,5.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ22.00000°,λ136.00000°. NP2:ϕ_s357.00000°,δ75.00000°,λ74.00000°. $M_0$1.91000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s88,c147; s118,c237;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}2.10±.05 $M_{\theta\theta}$-0.06±.03; $M_{\phi\phi}$-2.04±.03; $M_{r\theta}$-0.15±.03; $M_{\theta\phi}$-0.39±.02; $M_{\phi r}$1.32±.03; Best double couple: NP1:ϕ_s2.00000°,δ61.00000°,λ81.00000°. NP2:ϕ_s200.00000°,δ30.00000° ,λ106.00000°. Principal axes: T 2.5110,Plg72.0000°,Azm251.0000°; N -0.0420,Plg8.0000° ,Azm6.0000°; P -2.4720,Plg16.0000°,Azm98.0000° $M_0$2.49100×10^{17}
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.50 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-1.40 $M_{r\theta}$-0.60 $M_{\theta\phi}$-0.30 $M_{\phi r}$2.90 Best double couple: NP1:ϕ_s352.00000° ,δ77.00000°,λ80.00000°. NP2:ϕ_s209.00000°,δ15.00000°,λ125.00000°. Principal axes: T 3.4000,Plg56.0000°,Azm250.0000°; N -0.1000,Plg9.0000°,Azm354.0000° ; P -3.3000,Plg31.0000°,Azm89.0000° $M_0$3.00000×10^{17}
NEIC Event type fe. Felt [IV] at Narita; [III] at Tokyo, Yokosuka and Zushi; [II] at Yokohama. Felt widely in southeastern Honshu. Recorded [4 JMA] in Chiba and Ibaraki.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ79.00000°,λ87.00000°. NP2:ϕ_s210.00000°,δ11.00000°,λ106.00000°. Principal axes: T Plg56.0000°,Azm279.0000°; N Plg3.0000°,Azm14.0000°; P Plg34.0000° ,Azm106.0000°
ISCJB Event type fe.
JMA V 21 22 12 53.7–.10 38.48N 142.23E 27–2 3.5
¶600620318

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 21 22 22 28.7–.20 35.73N 140.98E 17–1 3.1
¶600620320

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 21 22 31 52.8–.20 35.62N 140.90E 12–2 2.9
¶16628197

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 21 22 32 36.0–1.1 37.02N–.05 141.12E–.08 52–7 3.9b 42 0-69
NIED V 21 22 32 00 37.00N 141.00E 41 4.0W **¶600620321**
ISCJB V 21 22 32 35.1–.58 37.03N–.03 141.11E–.06 60–4 3.9s,3.9b
JMA V 21 22 32 36.9–.10 37.05N 140.98E 53–1 3.9,3.9b
NEIC V 21 22 32 37.4–1.5 37.04N 141.08E 64–12 4.1b,3.9b
IDC V 21 22 32 37.9–2.1 37.08N 141.03E 71–17 4.0s,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ51.00000°,λ5.00000°. NP2:ϕ_s252.00000°,δ86.00000°,λ141.00000°. $M_0$1.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.4km az=23.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s252.00000°,δ71.00000°,λ149.00000°. NP2:ϕ_s353.00000°,δ61.00000°,λ22.00000°. Principal axes: T Plg35.0000°,Azm210.0000°; N Plg54.0000°,Azm45.0000°; P Plg7.0000° ,Azm305.0000°
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=12.2km az=126.0.
IDC Error ellipse: s-maj=19.4km s-min=12.9km az=109.0.
JMA V 21 23 02 53.4–.20 36.74N 141.90E 46 3.6
¶600620349

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 21 23 28 04.4–.10 36.26N 141.13E 46–2 3.0
¶600620356

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 22 03 12 13.7–.20 40.70N 142.67E 23–4 3.5
NIED V 22 03 12 00 40.70N 142.70E 35 3.6W **¶600620478**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ18.00000°,λ74.00000°. NP2:ϕ_s32.00000°,δ73.00000°,λ95.00000°. $M_0$2.61000×10^{14}
ISC V 22 03 16 04.3–1.0 39.81N–.04 142.27E–.08 47–8 4.3b,3.5s 70 0-151
NIED V 22 03 16 00 39.80N 142.30E 44 4.3W,3.5s **¶16560119**
ISCJB V 22 03 16 03.3–.53 39.84N–.03 142.29E–.06 53–3 4.2b,3.5s
NEIC V 22 03 16 04.8–.64 39.81N 142.24E 53–5 4.5b,3.5s
JMA V 22 03 16 04.2–.10 39.83N 142.27E 43–1 4.1,3.5s
IDC V 22 03 16 07.6–1.9 39.78N 142.15E 76–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ12.00000°,λ79.00000°. NP2:ϕ_s11.00000°,δ78.00000°,λ92.00000°. $M_0$2.90000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.5km az=16.4.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=126.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
JMA Event type fe.
IDC Error ellipse: s-maj=16.1km s-min=12.7km az=99.0.
ISC V 22 06 17 10.8–.98 37.64N–.05 141.69E–.08 46–9 3.8b 33 1-90
NIED V 22 06 17 00 37.60N 141.60E 56 3.7W **¶17204196**
ISCJB V 22 06 17 09.3–.86 37.62N–.04 141.75E–.08 50–7 3.7b
JMA V 22 06 17 11.3 37.65N 141.60E 45–2 3.7
IDC V 22 06 17 12.2–3.1 37.64N 141.70E 61–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ38.00000°,λ97.00000°. NP2:ϕ_s11.00000°,δ52.00000°,λ84.00000°. $M_0$4.39000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.9km az=18.1.
JMA Event type fe.
IDC Error ellipse: s-maj=23.6km s-min=17.3km az=78.0.
ISC V 22 08 28 21.8–.38 39.16N–.04 142.90E–.04 25–1 4.7b,4.4s 356 1-145
NIED V 22 08 28 00 39.10N 142.90E 35 4.7W,4.4s **¶17204207**
JMA V 22 08 28 20.1–.10 39.13N 142.98E 22–2 4.7,4.4s
ISCJB V 22 08 28 20.4–.80 39.16N–.03 142.94E–.04 27–5 4.7b,4.3s
NEIC V 22 08 28 23.4–.28 39.15N 142.95E 35 4.7b,4.3s
IDC V 22 08 28 23.3–.55 39.11N 142.87E 35–3 4.4,4.3
MOS V 22 08 28 23.4–.89 39.38N 142.73E 37 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ16.00000°,λ64.00000°. NP2:ϕ_s28.00000°,δ75.00000°,λ97.00000°. $M_0$1.29000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.5km az=39.2.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=127.0. Recorded [1 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=12.8km s-min=10.5km az=115.0.
MOS Error ellipse: s-maj=7.4km s-min=4.6km az=109.1.
ISC V 22 08 33 40.9–.43 39.21N–.04 142.84E–.04 35–1 4.8b,4.3s 354 1-154
NIED V 22 08 33 00 39.10N 143.00E 29 4.7W,4.3s **¶16532375**
JMA V 22 08 33 37.2–.10 39.12N 143.01E 21–2 4.7,4.3s
ISCJB V 22 08 33 39.7–.50 39.14N–.03 142.89E–.04 39–3 4.7b,4.3s
MOS V 22 08 33 40.7–.96 39.41N 142.71E 33 5.0b,4.3s
IDC V 22 08 33 40.7–.49 39.12N 142.90E 35–3 4.5,4.4
NEIC V 22 08 33 41.4–.27 39.21N 142.83E 35 5.0b,4.4
BJI V 22 08 33 41.1 39.19N 142.46E 37 4.9b,4.9b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ22.00000°,λ65.00000°. NP2:ϕ_s24.00000°,δ70.00000°,λ100.00000°. $M_0$1.14000×10^{16}

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=42.1.
MOS Error ellipse: s-maj=7.2km s-min=4.8km az=111.1.
IDC Error ellipse: s-maj=12.2km s-min=10.5km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.1km az=142.0. Felt at Ichinoseki and Tokyo. Recorded [2 JMA] in Iwate.

JMA V 22 12 21 42.1–.10 39.33N 142.99E 16–2 3.6
NIED V 22 12 21 00 39.30N 143.00E 17 3.5W **¶600620760**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ23.00000°,λ-20.00000°. NP2:ϕ_s247.00000°,δ83.00000°,λ-112.00000°. $M_0$1.75000×10^{14}

JMA V 22 12 58 18.3–.10 36.26N 140.91E 45–1 2.8
¶600620781

ISC V 22 15 15 04.7–1.1 36.82N–.03 140.53E–.04 7–8 3.5b 22 0-76
IDC V 22 15 15 03.4–1.0 36.76N 140.53E 0 3.7,3.5 **¶17204230**
ISCJB V 22 15 15 04.1–.69 36.82N–.03 140.63E–.07 14–5 3.3b,3.5
JMA V 22 15 15 04.7 36.82N 140.53E 4–1 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=14.9km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.8km az=5.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s356.00000°,δ49.00000°,λ-118.00000°. NP2:ϕ_s216.00000°,δ49.00000°,λ-62.00000°. Principal axes: T Plg0.0000°,Azm106.0000°; N Plg21.0000°,Azm16.0000°; P Plg69.0000°,Azm196.0000°

ISC V 22 16 29 06.1–.91 38.18N–.05 142.48E–.06 14 3.5b 20 1-58
ISCJB V 22 16 29 04.6–.84 38.16N–.05 142.53E–.07 14 3.4b **¶17204238**
JMA V 22 16 29 08.8–.20 38.29N 142.33E 32–2 3.9
IDC V 22 16 29 08.6–2.7 38.16N 142.71E 40–25 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.8km az=6.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.4km s-min=18.2km az=99.0.

ISC V 22 19 21 07.7–1.8 36.83N–.04 141.29E–.07 16–10 3.2b 23 0-57
IDC V 22 19 21 04.4–2.1 36.82N 141.50E 0 3.3,3.3 **¶17204255**
ISCJB V 22 19 21 07.1–1.3 36.82N–.04 141.37E–.08 23–7 3.3b,3.3
JMA V 22 19 21 09.0–.10 36.84N 141.22E 38–1 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=39.9km s-min=24.8km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.3km az=13.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 22 21 39 53.8–.37 37.59N–.03 141.62E–.04 46–3 4.7b,3.9s 367 1-155
NIED V 22 21 39 00 37.60N 141.60E 47 4.5W,3.9s **¶16535857**
MOS V 22 21 39 52.1–.89 37.62N 141.57E 46 4.9b,3.9s
ISCJB V 22 21 39 52.6–.41 37.58N–.02 141.62E–.04 51–3 4.7b,4.0s
JMA V 22 21 39 53.4–.10 37.61N 141.61E 43–2 4.3,4.0s
NEIC V 22 21 39 54.8–.37 37.59N 141.59E 57–3 4.9b,4.0s
IDC V 22 21 39 54.3–.41 37.59N 141.55E 51–4 4.4,4.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ13.00000°,λ98.00000°. NP2:ϕ_s16.00000°,δ78.00000°,λ88.00000°. $M_0$5.63000×10^{15}
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=117.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=24.1.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=129.0. Felt at Tokyo. Recorded [2 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=12.1km s-min=9.1km az=108.0.

ISC V 22 22 36 41.7–1.5 38.80N–.07 142.2E–.10 51 16 0-59
NIED V 22 22 36 00 38.80N 142.20E 53 3.7W **¶17204261**
ISCJB V 22 22 36 40.5–1.2 38.78N–.06 142.2E–.10 51 3.2b,2.9s
JMA V 22 22 36 40.9–.10 38.79N 142.23E 38–2 3.5,2.9s
IDC V 22 22 36 41.1–10 38.87N 142.50E 52–72 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ45.00000°,λ-66.00000°. NP2:ϕ_s169.00000°,δ49.00000°,λ-112.00000°. $M_0$4.31000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.3km az=19.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=135.2km s-min=29.5km az=71.0.

IDC V 22 23 06 30.9–2.7 38.64N 141.62E 0 3.5,3.5b
¶17204263

IDC Error ellipse: s-maj=69.0km s-min=29.6km az=70.0.

JMA V 23 02 22 11.9–.10 38.23N 142.16E 40–1 3.5
NIED V 23 02 22 00 38.20N 142.20E 38 3.5W **¶600621117**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s86.00000°,δ41.00000°,λ-30.00000°. NP2:ϕ_s199.00000°,δ71.00000°,λ-127.00000°. $M_0$1.93000×10^{14}

ISC V 23 03 26 21.4–1.1 38.15N–.05 141.71E–.08 51–9 4.0b 47 0-89
NIED V 23 03 26 00 38.20N 141.70E 56 3.9W **¶16560130**
ISCJB V 23 03 26 20.5–.66 38.16N–.04 141.71E–.08 58–5 3.9b,2.9s
JMA V 23 03 26 21.3–.10 38.16N 141.68E 51–1 3.8,2.9s
IDC V 23 03 26 23.4–2.4 38.16N 141.63E 70–21 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ25.00000°,λ93.00000°. NP2:ϕ_s23.00000°,δ65.00000°,λ89.00000°. $M_0$8.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=4.7km az=22.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=14.7km az=80.0.

ISC V 23 03 30 15.5–1.2 38.30N–.05 142.43E–.07 10 3.5b 16 1-58
IDC V 23 03 30 15.3–1.4 37.26N 144.11E 0 3.7L,3.6 **¶17204277**
ISCJB V 23 03 30 18.7–1.3 38.34N–.07 142.32E–.09 10 3.4b,3.6
JMA V 23 03 30 22.4–.10 38.44N 142.19E 32–1 2.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=26.5km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.8km az=40.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 23 04 36 40.6–2.0 37.70N–.06 141.9E–.10 40–18 3.6b 33 1-89
NIED V 23 04 36 00 37.70N 141.80E 56 3.9W **¶600621181**
ISCJB V 23 04 36 40.3–1.0 37.68N–.04 141.89E–.09 51–9 3.7b
JMA V 23 04 36 41.5 37.71N 141.79E 44–2 4.1
IDC V 23 04 36 43.0–3.3 37.64N 141.99E 65–30 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ21.00000°,λ99.00000°. NP2:ϕ_s183.00000°,δ69.00000°,λ87.00000°. $M_0$6.74000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=6.3km az=16.4.
IDC Error ellipse: s-maj=24.8km s-min=17.7km az=93.0.

ISC V 23 05 21 00.6–.93 38.22N–.04 141.92E–.05 23–5 4.5b,3.7s 181 1-146
NIED V 23 05 20 00 38.20N 142.20E 5 4.4W,3.7s **¶16535862**
JMA V 23 05 20 56.8–.20 38.19N 142.15E 16–1 4.8,3.7s
ISCJB V 23 05 20 59.0–.82 38.19N–.03 142.06E–.04 27–5 4.4b,3.7s
MOS V 23 05 21 01.5–1.2 38.14N 141.92E 47 4.7b,3.7s
IDC V 23 05 21 01.8–2.9 38.13N 141.99E 39–25 4.2,4.1
NEIC V 23 05 21 04.4–.77 38.22N 141.86E 52–7 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ45.00000°,λ-94.00000°. NP2:ϕ_s337.00000°,δ45.00000°,λ-86.00000°. $M_0$4.45000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=34.9.
MOS Error ellipse: s-maj=9.6km s-min=5.8km az=107.0.
IDC Error ellipse: s-maj=17.6km s-min=14.0km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=6.9km az=134.0. Recorded [2 JMA] in Iwate and Miyagi.

ISC V 23 05 33 24.9–2.4 38.71N–.06 142.3E–.10 33–10 3.7b 21 1-59
NIED V 23 05 33 00 38.70N 142.30E 53 3.7W **¶17204283**
IDC V 23 05 33 18.1–2.8 38.84N 142.80E 0 3.7,3.7b
ISCJB V 23 05 33 24.9–1.5 38.69N–.05 142.3E–.10 48–11 3.7b,3.7b
JMA V 23 05 33 25.3–.10 38.70N 142.25E 38–2 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ16.00000°,λ139.00000°. NP2:ϕ_s24.00000°,δ79.00000°,λ78.00000°. $M_0$4.52000×10^{14}
IDC Error ellipse: s-maj=68.3km s-min=32.6km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=18.6km s-min=7.9km az=10.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 23 05 51 12.1–1.1 35.68N–.06 140.84E–.08 44–8 3.7b 19 0-59
IDC V 23 05 51 03.8–2.9 35.88N 141.45E 0 3.9L,3.8 **¶17204284**
ISCJB V 23 05 51 11.4–.77 35.70N–.05 140.85E–.09 52–5 3.5b,3.5s
JMA V 23 05 51 12.5–.10 35.68N 140.72E 45–1 2.8,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=79.6km s-min=25.4km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=6.9km az=155.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA V 23 07 10 41.2–.20 37.57N 141.82E 27–3 3.5
¶600621237

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC V 23 07 17 41.3–1.6 38.27N–.05 141.8E–.10 46–13 23 0-58
NIED V 23 07 17 00 38.30N 141.70E 47 3.9W **¶17204289**
IDC V 23 07 17 32.7–3.0 38.46N 142.40E 0 3.6,3.5b
ISCJB V 23 07 17 41.1–1.0 38.28N–.04 141.8E–.10 55–9 3.3b,3.5b
JMA V 23 07 17 42.0–.10 38.30N 141.74E 51–1 3.7,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ12.00000°,λ68.00000°. NP2:ϕ_s356.00000°,δ79.00000°,λ95.00000°. $M_0$9.31000×10^{14}
IDC Error ellipse: s-maj=69.3km s-min=38.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=5.8km az=19.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 23 09 23 47.6–1.1 36.83N–.04 140.51E–.05 10 14 0-91
ISCJB V 23 09 23 47.1–.67 36.81N–.03 140.57E–.06 10 3.6b **¶600621313**
JMA V 23 09 23 47.2 36.83N 140.54E 3–1 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.5km az=15.7.

ISC V 23 09 24 29.8–1.9 38.32N–.04 142.40E–.08 9–11 23 1-78
NIED V 23 09 24 00 38.40N 142.30E 17 3.6W **¶600621314**
IDC V 23 09 24 27.6–5.4 39.84N 142.38E 70–59 3.4,3.4
ISCJB V 23 09 24 34.5–1.7 38.39N–.05 142.3E–.10 26–9 4.3b,3.5s
JMA V 23 09 24 35.1–.20 38.44N 142.31E 26–2 3.6,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ26.00000°,λ-173.00000°. NP2:ϕ_s273.00000°,δ87.00000°,λ-64.00000°. $M_0$2.56000×10^{14}
IDC Error ellipse: s-maj=100.3km s-min=10.5km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=8.3km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA V 23 09 49 54.8–.20 40.05N 142.97E 16–2 3.8
NIED V 23 09 49 00 40.00N 143.00E 23 3.8W **¶600621327**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s240.00000°,δ10.00000°,λ127.00000°. NP2:ϕ_s22.00000°,δ82.00000°,λ84.00000°. $M_0$4.74000×10^{14}

ISC V 23 10 37 47.3–1.5 37.00N–.05 141.3E–.10 40–11 3.9b,3.6s 33 0-74
ISCJB V 23 10 37 46.6–.81 36.98N–.04 141.25E–.08 51–6 3.7b,3.7s **¶600621357**
IDC V 23 10 37 48.8–2.6 37.03N 141.35E 55–24 3.8,3.7
JMA V 23 10 37 48.4–.10 37.01N 141.12E 50–1 3.9,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.8km az=19.2.
IDC Error ellipse: s-maj=21.9km s-min=18.8km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 23 12 28 49.9–.90 35.73N–.05 140.74E–.07 45–8 3.5b 24 0-59
ISCJB V 23 12 28 49.1–.61 35.76N–.05 140.76E–.08 55–5 3.6b **¶600621422**
JMA V 23 12 28 49.5–.10 35.74N 140.68E 48–1 3.1
IDC V 23 12 28 50.3–2.6 35.60N 140.65E 44–23 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.8km az=158.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.4km s-min=13.9km az=79.0.

ISC V 23 14 40 26.0–.60 38.13N–.04 142.60E–.04 29–3 4.7b,4.3s 380 1-149
NIED V 23 14 40 00 38.00N 142.60E 17 4.6W,4.3s **¶16535869**
IDC V 23 14 40 21.5–.55 38.03N 142.57E 0 4.5,4.4
JMA V 23 14 40 22.7–.20 38.06N 142.65E 32–4 4.8,4.4
ISCJB V 23 14 40 24.4–.80 38.10N–.03 142.51E–.03 29–5 4.7b,4.3s
MOS V 23 14 40 25.2–.92 38.15N 142.51E 34 4.9b,4.0s
NEIC V 23 14 40 27.2–.49 38.12N 142.49E 37–4 4.7b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ15.00000°,λ161.00000°. NP2:ϕ_s356.00000°,δ85.00000°,λ75.00000°. $M_0$1.02000×10^{16}
IDC Error ellipse: s-maj=14.4km s-min=12.2km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.2km az=154.0.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=138.0. Recorded [2 JMA] in Miyagi.

JMA V 23 15 09 09.6 36.89N 140.69E 10–1 3.5
NIED V 23 15 09 00 36.90N 140.70E 8 3.3W **¶600621510**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s181.00000°,δ70.00000°,λ-81.00000°. NP2:ϕ_s337.00000°,δ22.00000°,λ-112.00000°. Principal axes: T Plg24.0000°,Azm264.0000°; N Plg8.0000°,Azm358.0000°; P Plg64.0000°,Azm105.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ37.00000°,λ-69.00000°. NP2:ϕ_s219.00000°,δ55.00000°,λ-105.00000°. $M_0$1.06000×10^{14}

ISC V 23 17 56 06.0–1.2 35.68N–.07 140.84E–.09 47–8 3.4b 15 0-59
IDC V 23 17 55 58.6–3.0 35.85N 141.13E 0 3.6,3.6L **¶17204313**
ISCJB V 23 17 56 04.6–.94 35.70N–.06 140.9E–.10 57–5 3.3b,3.6L
JMA V 23 17 56 05.6–.20 35.75N 140.69E 49–2 2.8,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=74.2km s-min=24.5km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=9.1km az=158.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC V 23 18 10 03.6–.93 35.76N–.03 140.46E–.07 10 3.5b 13 0-64
ISCJB V 23 18 10 03.9–.73 35.70N–.04 140.49E–.08 10 3.5b **¶17204314**
JMA V 23 18 10 03.4–.10 35.72N 140.60E 47–1 2.5
IDC V 23 18 10 06.6–2.2 37.25N 140.19E 0 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.2km az=159.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=50.2km s-min=29.9km az=69.0.

JMA V 23 18 50 14.0–.10 38.33N 142.04E 26–1 3.9
NIED V 23 18 50 00 38.30N 142.00E 20 3.4W **¶600621689**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s167.00000°,δ67.00000°,λ1.00000°. NP2:ϕ_s76.00000°,δ89.00000°,λ157.00000°. $M_0$1.61000×10^{14}

JMA V 23 21 53 55.4–.10 37.16N 141.20E 31–1 3.5
NIED V 23 21 53 00 37.20N 141.20E 26 3.3W **¶600621749**
JMA Event type fe.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s70.00000°,δ38.00000°,λ-51.00000°. NP2:ϕ_s204.00000°,δ61.00000°,λ-117.00000°. $M_0$9.74000×10^{13}

ISC V 23 21 55 27.5–1.4 38.51N–.06 141.8E–.10 51–10 3.8b 28 0-76
NIED V 23 21 55 00 38.50N 141.70E 56 3.7W **¶17204329**
IDC V 23 21 55 16.8–1.4 38.76N 142.66E 0 3.9,3.8b
ISCJB V 23 21 55 26.7–.95 38.51N–.04 141.8E–.10 59–5 3.7b,3.8b
JMA V 23 21 55 28.2–.10 38.54N 141.71E 54–1 3.8,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s193.00000°,δ25.00000°,λ86.00000°. NP2:ϕ_s17.00000°,δ65.00000°,λ92.00000°. $M_0$3.48000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=28.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=5.9km az=17.9.
JMA Event type fe.

ISC V 23 21 55 46.9–1.3 38.8N–.10 141.8E–.20 51 3.7b 7 4-59
IDC V 23 21 55 40.4–1.3 38.93N 142.04E 0 3.9,3.8b **¶603241708**
ISCJB V 23 21 55 45.6–1.4 38.8N–.10 141.7E–.20 51 3.7b,3.8b
ISC Event type ke.
ISCJB Event type ke.

ISC V 23 23 56 38.9–2.2 36.06N–.06 141.24E–.08 16–13 3.6b 19 0-60
NIED V 23 23 56 00 36.00N 141.20E 17 3.5W **¶17204339**
IDC V 23 23 56 37.0–1.8 35.99N 141.31E 0 4.0L,3.8
ISCJB V 23 23 56 38.7–1.2 35.99N–.05 141.27E–.08 29–6 3.7b,3.8
JMA V 23 23 56 39.3–.10 36.00N 141.22E 37–2 3.9,3.8
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ24.00000°,λ-60.00000°. NP2:ϕ_s7.00000°,δ69.00000°,λ-103.00000°. $M_0$2.10000×10^{14}
IDC Error ellipse: s-maj=52.3km s-min=19.1km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=7.9km az=152.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**24 00 55 18.8–.65**	**35.67N–.06**	**140.81E–.07**	**49–5**	**3.8b,3.0s**	**35**	**0-81**	
NIED	V	24 00 55 00	35.80N	140.70E	50	4.0W,3.0s			¶17204342
ISCJB	V	24 00 55 17.4–.52	35.65N–.04	140.83E–.07	56–4	3.9b,2.9s			
JMA	V	24 00 55 18.3–.10	35.75N	140.68E	48–1	3.4,2.9s			
IDC	V	24 00 55 19.1–.81	35.61N	140.76E	52–7	3.9,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ23.00000°,λ75.00000°. NP2:ϕ_s13.00000°,δ67.00000°,λ97.00000°. $M_0$1.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.9km az=164.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s0.00000°,δ78.00000°,λ80.00000°. NP2: ϕ_s221.00000°,δ16.00000°,λ130.00000°. Principal axes: T Plg56.0000°,Azm257.0000° ; N Plg10.0000°,Azm3.0000°; P Plg32.0000°,Azm99.0000°
IDC Error ellipse: s-maj=12.3km s-min=8.4km az=63.0.

ISC	**V**	**24 01 10 26.1–.82**	**35.74N–.05**	**140.75E–.08**	**47–7**	**3.7b**	**24**	**0-79**	
ISCJB	V	24 01 10 24.6–.67	35.74N–.06	140.80E–.10	53–4	3.7b			¶17204343
JMA	V	24 01 10 25.6–.10	35.75N	140.67E	45–1	3.3			
IDC	V	24 01 10 32.8–2.4	35.29N	139.36E	71–17	3.7,3.5			

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=8.3km az=151.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s18.00000°,δ78.00000°,λ89.00000°. NP2: ϕ_s203.00000°,δ12.00000°,λ94.00000°. Principal axes: T Plg57.0000°,Azm287.0000° ; N Plg1.0000°,Azm18.0000°; P Plg33.0000°,Azm109.0000°
IDC Error ellipse: s-maj=34.0km s-min=18.5km az=67.0.

ISC	**V**	**24 04 46 53.4–2.3**	**38.36N–.06**	**142.20E–.08**	**9–14**	**3.6b**	**26**	**1-89**	
IDC	V	24 04 46 52.0–1.0	38.24N	142.40E	0	3.9,3.8L			¶17204353
ISCJB	V	24 04 46 53.1–2.0	38.37N–.05	142.3E–.10	15–14	3.7b,3.8L			
JMA	V	24 04 46 55.0–.10	38.45N	142.23E	28–1	4.0,3.8L			

ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=20.9km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=16.6km s-min=6.8km az=24.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**24 05 29 53.8–1.6**	**36.94N–.05**	**141.26E–.06**	**13–9**	**3.8b**	**30**	**0-147**	
NIED	V	24 05 29 00	37.00N	141.20E	35	4.3W			¶17204357
IDC	V	24 05 29 51.5–.87	36.83N	141.43E	0	3.9,3.8			
ISCJB	V	24 05 29 52.1–1.3	36.98N–.05	141.38E–.05	11–6	3.7b,3.8			
JMA	V	24 05 29 54.7–.10	37.00N	141.20E	32–1	3.8,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s290.00000°,δ4.00000°,λ-64.00000°. NP2:ϕ_s85.00000°,δ86.00000°,λ-92.00000°. $M_0$3.25000×10^{15}
IDC Error ellipse: s-maj=20.5km s-min=19.6km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=6.6km az=163.8.
JMA Event type fe.

JMA	**V**	**24 06 18 09.2–.10**	**38.45N**	**142.24E**	**27–1**	**3.6**			
									¶600621988

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**24 06 37 22.2–1.8**	**35.8N–.10**	**141.1E–.20**	**31**	**3.7b**	**15**	**0-56**	
IDC	V	24 06 37 17.1–3.0	35.81N	141.24E	0	3.7,3.6			¶17204360
ISCJB	V	24 06 37 20.7–1.3	35.87N–.09	141.2E–.10	31	3.5b,3.6			
JMA	V	24 06 37 25.4–.10	35.73N	140.67E	47–1	3.0,3.6			

ISC Event type ke.
IDC Error ellipse: s-maj=86.8km s-min=24.5km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=18.1km s-min=7.7km az=142.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**V**	**24 07 36 00.9–.10**	**38.47N**	**142.36E**	**35–2**	**3.5**			
NIED	V	24 07 36 00	38.50N	142.40E	32	3.4W			¶600622035

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ53.00000°,λ-10.00000°. NP2:ϕ_s358.00000°,δ82.00000°,λ-143.00000°. $M_0$1.19000×10^{14}

ISC	**V**	**24 08 00 29.9–.99**	**34.57N–.05**	**140.10E–.06**	**65–9**	**3.6b**	**23**	**0-58**	
IDC	V	24 08 00 26.6–1.2	34.18N	138.79E	0	4.0L,3.7			¶17204364
ISCJB	V	24 08 00 28.7–.56	34.58N–.04	140.12E–.06	71–5	3.5b,3.7			
JMA	V	24 08 00 29.8–.20	34.64N	140.15E	65–3	3.4,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=40.6km s-min=15.9km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.4km az=148.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**24 08 03 26.6–2.1**	**37.08N–.06**	**141.43E–.09**	**17–10**	**3.7b**	**22**	**1-57**	
NIED	V	24 08 03 00	37.10N	141.10E	50	3.8W			¶17204365
IDC	V	24 08 03 24.1–1.3	37.15N	141.38E	0	3.8b,3.8			
JMA	V	24 08 03 31.8–.10	37.11N	141.13E	51–1	3.9,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ16.00000°,λ72.00000°. NP2:ϕ_s29.00000°,δ75.00000°,λ95.00000°. $M_0$6.00000×10^{14}
IDC Error ellipse: s-maj=26.3km s-min=19.3km az=160.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**24 10 18 13.4–.83**	**36.80N–.03**	**141.21E–.04**	**16–4**	**4.5b,3.6s**	**192**	**0-147**	
NIED	V	24 10 18 00	36.80N	141.30E	8	4.4W,3.6s			¶16538120
IDC	V	24 10 18 10.6–.45	36.78N	141.21E	0	4.4,4.3			
JMA	V	24 10 18 12.8–.10	36.78N	141.29E	36–1	4.6,4.3			
MOS	V	24 10 18 14.8–1.2	36.85N	141.21E	37	4.7b,4.3			
ISCJB	V	24 10 18 14.0–.59	36.78N–.02	141.19E–.03	29–3	4.5b,3.6s			
NEIC	V	24 10 18 16.5–.18	36.77N	141.11E	35	4.7b,3.6s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ47.00000°,λ-122.00000°. NP2:ϕ_s215.00000°,δ52.00000°,λ-60.00000°. $M_0$4.55000×10^{15}
IDC Error ellipse: s-maj=14.2km s-min=10.8km az=108.0.
JMA Event type fe.
MOS Error ellipse: s-maj=8.7km s-min=5.9km az=94.7.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=27.7.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.7km az=147.0. Recorded [3 JMA] in Ibaraki.

ISC	**V**	**24 10 47 14.0–.74**	**36.89N–.05**	**141.94E–.06**	**19**	**3.7b**	**29**	**1-90**	
NIED	V	24 10 47 00	36.90N	141.90E	29	3.8W			¶17204371
IDC	V	24 10 47 11.9–.86	36.85N	142.09E	0	3.9,3.7			
ISCJB	V	24 10 47 12.9–.59	36.84N–.04	142.07E–.06	19	3.7b,2.9s			
JMA	V	24 10 47 15.4–.20	36.94N	141.92E	28–3	3.6,2.9s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ36.00000°,λ-127.00000°. NP2:ϕ_s135.00000°,δ62.00000°,λ-67.00000°. $M_0$5.62000×10^{14}
IDC Error ellipse: s-maj=27.4km s-min=17.0km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.0km az=169.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**24 11 49 22.5–.50**	**36.43N–.03**	**141.08E–.03**	**32–3**	**5.2b,4.5s**	**755**	**0-152**	
NIED	V	24 11 49 00	36.40N	141.20E	29	4.9W,4.5s			¶16538121
BJI	V	24 11 49 19.4	36.41N	141.21E	36	5.0b,4.9b			
JMA	V	24 11 49 20.3–.10	36.40N	141.12E	44–1	5.0,4.9b			
IDC	V	24 11 49 22.8–1.8	36.36N	141.05E	34–13	4.9,4.8			
ISCJB	V	24 11 49 22.5–.31	36.42N–.02	141.01E–.02	39–2	5.1b,4.5s			
MOS	V	24 11 49 23.3–.97	36.75N	140.93E	33	5.4b,4.3s			
GCMT	V	24 11 49 23.5–.30	36.51N	140.99E	31–1	5.0W,4.3s			
NEIC	V	24 11 49 23.5–.10	36.38N	140.94E	35	5.3b,4.3s			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ18.00000°,λ-119.00000°. NP2:ϕ_s255.00000°,δ74.00000°,λ-81.00000°. $M_0$2.34000×10^{16}
JMA Event type fe.
IDC Error ellipse: s-maj=11.6km s-min=8.8km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=43.3.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=103.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c44; s88,c130; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.16±.13 $M_{\theta\theta}$1.31±.08; $M_{\phi\phi}$0.85±.08; $M_{r\theta}$2.81±.15; $M_{\theta\phi}$1.04±.05; $M_{\phi r}$0.69±.09; Best double couple: NP1:ϕ_s250.00000°,δ72.00000°,λ-78.00000°. NP2:ϕ_s37.00000°,δ21.00000°,λ-122.00000°. Principal axes: T 3.4690,Plg26.0000°,Azm331.0000°; N 0.2670,Plg11.0000°,Azm67.0000° ; P -3.7290,Plg61.0000°,Azm177.0000° $M_0$3.59900×10^{16}

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=142.0. Felt at Hitachinaka and Tokyo. Recorded [3 JMA] in Fukushima and Ibaraki.

JMA	**V**	**24 11 50 31.3–.20**	**35.68N**	**140.04E**	**69–2**	**3.8**			
									¶600622167

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**V**	**24 12 51 05.7–.10**	**35.86N**	**140.47E**	**34–1**	**2.7**			
									¶600622196

ISC	**V**	**24 13 03 18.4–1.6**	**39.73N–.04**	**142.28E–.08**	**32–11**	**3.6b**	**27**	**0-64**	
NIED	V	24 13 03 00	39.70N	142.40E	50	3.6W			¶17204383
ISCJB	V	24 13 03 17.6–.96	39.72N–.04	142.4E–.10	50–7	3.5b			
JMA	V	24 13 03 18.2	39.75N	142.37E	41–1	3.5			
IDC	V	24 13 03 20.2–3.1	39.75N	142.50E	67–28	3.5,3.3			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ22.00000°,λ62.00000°. NP2:ϕ_s29.00000°,δ71.00000°,λ101.00000°. $M_0$2.61000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=6.6km az=3.3.
IDC Error ellipse: s-maj=43.8km s-min=19.5km az=75.0.

ISC	**V**	**24 19 41 34.5–2.0**	**36.50N–.04**	**141.99E–.06**	**4–12**	**4.3b**	**108**	**1-147**	
NIED	V	24 19 41 00	36.50N	141.80E	11	4.1W			¶16560141
ISCJB	V	24 19 41 32.1–1.5	36.45N–.03	142.16E–.05	5–9	4.3b,3.6s			
IDC	V	24 19 41 33.5–.54	36.45N	142.09E	0	4.1,4.0			
JMA	V	24 19 41 38.1–.20	36.52N	141.80E	45	3.9,4.0			
NEIC	V	24 19 41 38.4–.25	36.42N	142.06E	35	4.7b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ45.00000°,λ76.00000°. NP2:ϕ_s182.00000°,δ47.00000°,λ104.00000°. $M_0$1.59000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=10.1.
IDC Error ellipse: s-maj=14.5km s-min=12.7km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.2km az=116.0.

ISC	**V**	**24 20 11 55.8–1.5**	**38.26N–.05**	**142.03E–.10**	**56–11**	**4.1b**	**38**	**1-146**	
NIED	V	24 20 11 00	38.30N	141.90E	59	3.8W			¶17204401
ISCJB	V	24 20 11 55.0–.89	38.27N–.04	142.00E–.09	68–6	3.9b			
JMA	V	24 20 11 56.8–.10	38.28N	141.88E	62–1	3.8			
IDC	V	24 20 11 56.3–2.4	38.35N	142.22E	69–20	3.9,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ45.00000°,λ64.00000°. NP2:ϕ_s211.00000°,δ50.00000°,λ113.00000°. $M_0$4.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=5.4km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=11.9km az=108.0.

ISC	**V**	**24 21 21 04.7–1.3**	**37.88N–.04**	**141.71E–.08**	**58–12**		**29**	**1-58**	
IDC	V	24 21 20 54.5–2.3	38.30N	142.15E	0	3.8,3.7			¶17204404
NIED	V	24 21 21 00	37.90N	141.50E	35	3.5W,3.7			
ISCJB	V	24 21 21 04.8–.87	37.89N–.05	141.61E–.09	69–8	3.5b,3.7			
JMA	V	24 21 21 06.3	37.92N	141.53E	61–1	3.6,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=32.0km az=73.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ44.00000°,λ70.00000°. NP2:ϕ_s186.00000°,δ50.00000°,λ108.00000°. $M_0$2.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.1km az=24.2.
JMA Event type fe.

ISC	**V**	**24 21 27 45.9–1.7**	**36.39N–.03**	**141.73E–.06**	**16–10**	**3.6b**	**36**	**1-75**	
NIED	V	24 21 27 00	36.40N	141.60E	32	3.6W			¶17204405
IDC	V	24 21 27 43.8–1.3	36.37N	141.72E	0	3.7,3.7			
JMA	V	24 21 27 48.6–.10	36.41N	141.60E	56–3	3.6,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ45.00000°,λ-73.00000°. NP2:ϕ_s153.00000°,δ47.00000°,λ-107.00000°. $M_0$3.29000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=22.2km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**24 22 05 16.2–2.0**	**39.18N–.05**	**142.39E–.09**	**26–13**	**3.6b**	**27**	**1-59**	
NIED	V	24 22 05 00	39.20N	142.40E	32	3.5W			¶17204411
ISCJB	V	24 22 05 14.3–1.2	39.16N–.04	142.49E–.07	25–7	3.6b,2.8s			
JMA	V	24 22 05 16.2–.10	39.18N	142.39E	30–1	3.9,2.8s			
IDC	V	24 22 05 18.3–3.0	39.18N	142.50E	50–27	3.5,3.5			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ32.00000°,λ-144.00000°. NP2:ϕ_s190.00000°,δ72.00000°,λ-64.00000°. $M_0$2.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.2km az=13.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.4km s-min=16.4km az=108.0.

ISC	**V**	**24 22 37 53.1–.49**	**37.36N–.04**	**141.64E–.06**	**41–4**	**4.1b,3.4s**	**82**	**1-146**	
NIED	V	24 22 37 00	37.40N	141.50E	44	4.2W,3.4s			¶16539615
ISCJB	V	24 22 37 51.3–.61	37.36N–.03	141.64E–.06	41–5	4.2b,3.3s			
JMA	V	24 22 37 53.2–.10	37.44N	141.51E	42–2	4.3,3.3s			
IDC	V	24 22 37 54.0–.47	37.38N	141.38E	42–3	4.1,4.0			
NEIC	V	24 22 37 53.3–.78	37.40N	141.59E	38–7	4.5b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ54.00000°,λ-42.00000°. NP2:ϕ_s297.00000°,δ58.00000°,λ-135.00000°. $M_0$2.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.0km az=12.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=9.2km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=6.9km az=111.0. Recorded [3 JMA] in Fukushima.

ISC	**V**	**24 23 03 08.1–.94**	**36.84N–.03**	**140.71E–.06**	**15–6**	**3.6b**	**33**	**0-83**	
NIED	V	24 23 03 00	36.90N	140.70E	8	3.7W			¶17204412
IDC	V	24 23 03 05.6–.99	36.86N	140.81E	0	3.8,3.8			
ISCJB	V	24 23 03 07.0–.70	36.82N–.03	140.87E–.06	21–4	3.6b,3.8			
JMA	V	24 23 03 08.6	36.85N	140.70E	9–1	3.8,3.8			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ33.00000°,λ-100.00000°. NP2:ϕ_s158.00000°,δ57.00000°,λ-84.00000°. $M_0$4.15000×10^{14}
IDC Error ellipse: s-maj=24.5km s-min=18.9km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.5km az=23.6.
JMA Event type fe.

ISC	**V**	**25 00 19 14.4–.56**	**35.86N–.04**	**140.20E–.04**	**59–4**	**4.7b,3.5s**	**339**	**0-151**	
NIED	V	25 00 19 00	35.90N	140.20E	65	4.6W,3.5s			¶16543233
MOS	V	25 00 19 10.1–.86	35.84N	140.02E	33	5.0b,3.5s			
JMA	V	25 00 19 15.8–.10	35.92N	140.14E	62–1	4.5,3.5s			
ISCJB	V	25 00 19 15.1–.31	35.83N–.02	140.06E–.03	74–2	4.6b,3.5s			
IDC	V	25 00 19 16.7–1.6	35.84N	140.03E	79–14	4.5,4.3			
NEIC	V	25 00 19 17.1–.62	35.87N	139.93E	77–5	4.6b,4.3			

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ105.00000°. NP2:ϕ_s4.00000°,δ67.00000°,λ84.00000°. $M_0$9.60000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=5.3km az=108.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s7.00000°,δ73.00000°,λ89.00000°. NP2: ϕ_s190.00000°,δ17.00000°,λ93.00000°. Principal axes: T Plg62.0000°,Azm276.0000° ; N Plg1.0000°,Azm8.0000°; P Plg28.0000°,Azm98.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.8km az=179.3.
IDC Error ellipse: s-maj=14.2km s-min=11.0km az=81.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.8km az=120.0. Felt [III] at Tokyo. Recorded [3 JMA] in Ibaraki and Tochigi.

IDC	**V**	**25 00 50 18.1–2.0**	**36.67N**	**141.99E**	**0**	**3.7,3.6b**			
									¶17204419

IDC Error ellipse: s-maj=46.5km s-min=27.0km az=59.0.

ISC	**V**	**25 01 04 05.4–.64**	**38.28N–.05**	**142.23E–.07**	**35**	**3.9b**	**40**	**1-146**	
NIED	V	25 01 04 00	38.30N	142.20E	41	3.9W			¶17204421
ISCJB	V	25 01 04 03.6–.54	38.34N–.04	142.35E–.06	35	3.8b			
JMA	V	25 01 04 05.2–.10	38.35N	142.20E	38–1	4.1			
IDC	V	25 01 04 09.8–2.5	38.29N	142.12E	75–21	3.8,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ35.00000°,λ-72.00000°. NP2:ϕ_s328.00000°,δ57.00000°,λ-102.00000°. $M_0$6.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.4km az=32.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=15.8km az=89.0.

JMA	**V**	**25 03 22 07.2–.10**	**39.09N**	**142.40E**	**30–1**	**2.5**			

¶600622702

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 25 03 23 48.4–1.9 39.07N–.04 142.33E–.08 11–10 3.8b 28 1-73
NIED V 25 03 23 00 39.10N 142.30E 38 3.6W **¶17204425**
ISCJB V 25 03 23 48.6–1.5 39.08N–.04 142.40E–.10 27–8 3.7b
JMA V 25 03 23 49.9–.10 39.10N 142.33E 33–1 3.6
IDC V 25 03 23 54.4–2.9 39.04N 142.24E 67–26 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ24.00000°,λ24.00000°. NP2:ϕ_s36.00000°,δ81.00000°,λ112.00000°. $M_0$3.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=6.2km az=15.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.7km s-min=20.7km az=98.0.
ISC V 25 04 07 26.2–1.1 35.74N–.05 140.81E–.09 50–8 3.7b 20 0-75
IDC V 25 04 07 18.4–1.6 35.85N 141.23E 0 3.9,3.8 **¶17204427**
ISCJB V 25 04 07 25.1–.84 35.73N–.05 140.8E–.10 57–6 3.7b,2.6s
JMA V 25 04 07 26.5–.10 35.75N 140.67E 48–1 3.3,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=19.2km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=7.2km az=160.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ77.00000°,λ82.00000°. NP2: ϕ_s222.00000°,δ15.00000°,λ123.00000°. Principal axes: T Plg57.0000°,Azm267.0000° ; N Plg8.0000°,Azm10.0000°; P Plg32.0000°,Azm105.0000°
JMA V 25 04 11 41.6–.20 38.13N 142.02E 21–1 3.9
NIED V 25 04 11 00 38.10N 142.00E 68 3.8W **¶600622723**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ72.00000°,λ1.00000°. NP2:ϕ_s109.00000°,δ89.00000°,λ162.00000°. $M_0$6.31000×10^{14}
ISC V 25 04 47 09.0–2.0 37.70N–.04 141.96E–.06 1–12 3.7b 34 1-146
NIED V 25 04 47 00 37.70N 141.90E 8 3.8W **¶17204429**
ISCJB V 25 04 47 09.7–1.2 37.72N–.04 142.00E–.07 15–8 3.6b
IDC V 25 04 47 09.3–.72 37.72N 141.96E 0 3.9,3.9L
JMA V 25 04 47 11.0–.20 37.73N 141.92E 22–2 4.2,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s287.00000°,δ36.00000°,λ-118.00000°. NP2:ϕ_s140.00000°,δ59.00000°,λ-71.00000°. $M_0$5.80000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.0km az=13.5.
IDC Error ellipse: s-maj=20.2km s-min=17.0km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 25 05 49 30.9–1.1 36.90N–.04 140.74E–.06 13–7 3.5b 19 0-57
NIED V 25 05 49 00 36.90N 140.70E 5 3.5W **¶17204431**
IDC V 25 05 49 28.5–1.8 36.92N 140.83E 0 3.7,3.6
ISCJB V 25 05 49 30.1–.92 36.89N–.05 140.84E–.07 20–6 3.4b,3.6
JMA V 25 05 49 31.3 36.91N 140.68E 7–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ28.00000°,λ-98.00000°. NP2:ϕ_s150.00000°,δ62.00000°,λ-86.00000°. $M_0$1.72000×10^{14}
IDC Error ellipse: s-maj=38.0km s-min=22.8km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.5km az=30.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s321.00000°,δ56.00000°,λ-102.00000°. NP2:ϕ_s161.00000°,δ36.00000°,λ-73.00000°. Principal axes: T Plg10.0000°,Azm59.0000°; N Plg10.0000°,Azm327.0000°; P Plg76.0000° ,Azm194.0000°
JMA V 25 06 31 58.6–.10 35.86N 140.89E 35–1 2.2
¶603241715
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 25 08 07 41.6 37.20N 141.08E 14–1 2.9
¶17204437
ISC V 25 08 08 47.5–1.2 35.74N–.05 140.75E–.08 48–9 16 0-59
IDC V 25 08 08 36.2–6.4 36.26N 141.74E 0 3.7,3.4 **¶600622803**
ISCJB V 25 08 08 46.6–.81 35.74N–.06 140.77E–.09 57–6 3.4b,2.5s
JMA V 25 08 08 47.7–.10 35.73N 140.66E 46–1 2.9,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=143.8km s-min=38.8km az=36.0.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=7.8km az=148.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 25 08 26 55.1–.10 37.44N 141.52E 40–2 3.6
¶16560142
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 25 08 27 52.0–1.2 38.10N–.05 141.74E–.08 57–10 3.9b 45 0-146
NIED V 25 08 27 00 38.10N 141.60E 62 4.0W **¶600622814**
ISCJB V 25 08 27 51.9–.61 38.13N–.04 141.63E–.08 68–5 3.8b
JMA V 25 08 27 52.8 38.14N 141.60E 60–1 4.1
IDC V 25 08 27 54.1–2.0 38.11N 141.54E 73–19 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ45.00000°,λ102.00000°. NP2:ϕ_s193.00000°,δ46.00000°,λ78.00000°. $M_0$9.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.2km az=22.7.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=13.2km az=104.0.
ISC V 25 09 33 39.2–1.3 37.07N–.05 141.92E–.09 19 3.6b 16 1-57
NIED V 25 09 33 00 37.10N 142.30E 23 3.5W **¶17204442**
IDC V 25 09 33 33.3–2.5 37.30N 142.63E 0 3.8,3.7
JMA V 25 09 33 36.4–.40 37.10N 142.32E 29 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ30.00000°,λ-123.00000°. NP2:ϕ_s209.00000°,δ65.00000°,λ-72.00000°. $M_0$1.78000×10^{14}
IDC Error ellipse: s-maj=57.2km s-min=27.5km az=71.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA V 25 09 34 51.8–.10 39.32N 142.92E 23–2 3.6
NIED V 25 09 34 00 39.30N 142.90E 32 3.5W **¶600622841**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ32.00000°,λ-173.00000°. NP2:ϕ_s266.00000°,δ86.00000°,λ-58.00000°. $M_0$1.81000×10^{14}
ISC V 25 14 20 52.9–.77 35.48N–.05 140.91E–.07 33 3.6b,3.4s 26 0-75
NIED V 25 14 20 00 35.50N 140.90E 20 4.0W,3.4s **¶17204453**
IDC V 25 14 20 48.4–.82 35.41N 141.06E 0 3.8,3.7
ISCJB V 25 14 20 50.9–.56 35.47N–.04 140.98E–.07 33 3.7b,3.3s
JMA V 25 14 20 51.2–.10 35.50N 140.93E 24–1 3.9,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ33.00000°,λ-179.00000°. NP2:ϕ_s72.00000°,δ89.00000°,λ-57.00000°. $M_0$1.19000×10^{15}
IDC Error ellipse: s-maj=22.8km s-min=16.6km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.3km az=13.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 25 16 41 34.5–2.0 35.60N–.06 141.49E–.08 9–11 3.7b 23 1-59
ISCJB V 25 16 41 33.6–1.4 35.63N–.05 141.59E–.08 18–9 3.6b,3.4s **¶17204461**
IDC V 25 16 41 33.3–1.1 35.56N 141.48E 0 3.7,3.7b
JMA V 25 16 41 35.6–.20 35.62N 141.42E 12–2 3.3,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.9km az=168.2.
IDC Error ellipse: s-maj=29.7km s-min=16.6km az=82.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 25 16 58 30.3–1.2 36.79N–.03 140.52E–.04 4–10 3.7b 21 0-76
NIED V 25 16 58 00 36.80N 140.50E 8 3.6W **¶17204462**
IDC V 25 16 58 27.9–1.3 36.27N 140.61E 0 4.0,3.7b
ISCJB V 25 16 58 29.8–.59 36.78N–.03 140.58E–.05 11–4 3.7b,2.7s
JMA V 25 16 58 30.2 36.79N 140.54E 8–1 3.6,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ46.00000°,λ-125.00000°. NP2:ϕ_s171.00000°,δ54.00000°,λ-60.00000°. $M_0$2.79000×10^{14}
IDC Error ellipse: s-maj=34.9km s-min=23.8km az=14.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.3km az=26.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s327.00000°,δ53.00000°,λ-106.00000°. NP2:ϕ_s174.00000°,δ40.00000°,λ-69.00000°. Principal axes: T Plg7.0000°,Azm69.0000°; N Plg13.0000°,Azm337.0000°; P Plg75.0000° ,Azm187.0000°
ISC V 25 17 27 35.3–.59 39.77N–.04 142.39E–.06 39–3 4.2b 80 0-75
NIED V 25 17 27 00 39.80N 142.30E 41 4.0W **¶16710918**
ISCJB V 25 17 27 34.4–.68 39.77N–.03 142.45E–.07 48–4 4.1b,3.2s
JMA V 25 17 27 35.7 39.75N 142.35E 41–1 3.8,3.2s
MOS V 25 17 27 35.5–1.0 39.86N 142.43E 56 4.4b,3.2s
NEIC V 25 17 27 37.4–.74 39.76N 142.52E 63–6 4.6b,3.2s
IDC V 25 17 27 37.3–2.4 39.76N 142.48E 61–20 4.1,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ68.00000°,λ97.00000°. $M_0$1.24000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.1km az=16.7.
JMA Event type fe.
MOS Error ellipse: s-maj=10.6km s-min=7.6km az=93.2.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=5.7km az=113.0.
IDC Error ellipse: s-maj=20.8km s-min=13.3km az=95.0.
ISC V 26 01 06 20.1–.82 35.68N–.06 141.74E–.07 25 3.8b 25 1-93
NIED V 26 01 06 00 35.90N 141.80E 8 3.8W **¶17204475**
IDC V 26 01 06 15.9–.86 35.63N 141.75E 0 3.9,3.8
ISCJB V 26 01 06 17.9–.64 35.67N–.05 141.82E–.06 25 3.8b,2.5s
JMA V 26 01 06 18.1–.20 35.79N 141.83E 32–3 4.1,2.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ45.00000°,λ-65.00000°. NP2:ϕ_s344.00000°,δ50.00000°,λ-113.00000°. $M_0$5.38000×10^{14}
IDC Error ellipse: s-maj=22.4km s-min=17.0km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=6.9km az=141.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 26 01 37 09.0–.10 37.24N 141.04E 30–1 3.5
NIED V 26 01 37 00 37.20N 141.00E 62 3.6W **¶600623307**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ41.00000°,λ0.00000°. NP2:ϕ_s41.00000°,δ90.00000°,λ131.00000°. $M_0$2.86000×10^{14}
ISC V 26 01 43 55.8–2.3 38.85N–.06 142.3E–.10 25–14 3.4b 20 1-62
NIED V 26 01 43 00 38.80N 142.20E 80 3.7W **¶17204477**
IDC V 26 01 43 48.4–1.3 38.98N 143.12E 0 3.5,3.3
JMA V 26 01 43 58.6–.10 38.84N 142.16E 42–1 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ22.00000°,λ14.00000°. NP2:ϕ_s98.00000°,δ85.00000°,λ112.00000°. $M_0$4.61000×10^{14}
IDC Error ellipse: s-maj=32.6km s-min=27.9km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 26 03 22 51.2 36.70N 140.62E 7–1 2.8
¶17204482
JMA Event type fe.
ISC V 26 03 23 35.8–.85 35.49N–.05 140.78E–.07 35 3.4b 20 0-65
ISCJB V 26 03 23 33.9–.56 35.46N–.04 140.80E–.07 35 3.4b **¶600623339**
JMA V 26 03 23 34.3–.10 35.53N 140.72E 26–1 3.1
IDC V 26 03 23 36.8–4.0 35.34N 140.71E 36–35 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.4km az=4.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.9km s-min=17.4km az=87.0.
ISC V 26 06 57 34.4–.87 39.61N–.04 142.11E–.08 49–7 4.2b,3.1s 65 0-145
NIED V 26 06 57 00 39.60N 142.10E 53 4.1W,3.1s **¶16560147**
ISCJB V 26 06 57 33.6–.49 39.62N–.03 142.10E–.07 58–3 4.2b,3.0s
JMA V 26 06 57 34.5–.10 39.63N 142.10E 48–1 4.1,3.0s
NEIC V 26 06 57 36.1–.63 39.63N 142.11E 68–6 4.5b,3.0s
IDC V 26 06 57 37.2–2.1 39.55N 142.03E 78–19 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ90.00000°. NP2:ϕ_s17.00000°,δ69.00000°,λ90.00000°. $M_0$1.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.7km az=16.3.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=5.4km az=113.0. Recorded [3 JMA] in Iwate.
IDC Error ellipse: s-maj=16.8km s-min=13.1km az=95.0.
ISC V 26 08 24 02.7–1.7 35.78N–.06 141.0E–.10 12–8 3.6b 13 0-56
NIED V 26 08 24 00 35.70N 141.00E 5 3.6W **¶17204489**
ISCJB V 26 08 24 01.4–1.6 35.76N–.07 141.11E–.10 12–7 3.6b
IDC V 26 08 24 03.3–1.4 35.55N 140.71E 0 3.7,3.5
JMA V 26 08 24 03.2–.20 35.75N 140.99E 14–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ41.00000°,λ-130.00000°. NP2:ϕ_s13.00000°,δ60.00000°,λ-61.00000°. $M_0$2.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.7km s-min=9.0km az=141.9.
IDC Error ellipse: s-maj=29.7km s-min=22.8km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 26 08 50 53.4–.10 38.22N 142.14E 15–1 3.6
¶600623443
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC V 26 10 30 42.0–2.9 36.63N 141.92E 0 3.9,3.7b
¶17204499
IDC Error ellipse: s-maj=61.7km s-min=32.7km az=39.0.
ISC V 26 10 56 38.5–.50 36.71N–.03 140.63E–.03 26–3 4.8b,3.8s 375 0-147
NIED V 26 10 56 00 36.70N 140.60E 5 4.6W,3.8s **¶16546021**
IDC V 26 10 56 34.6–.45 36.69N 140.46E 0 4.7,4.6
ISCJB V 26 10 56 36.8–.48 36.79N–.02 140.45E–.03 18–3 4.7b,3.8s
JMA V 26 10 56 36.2 36.72N 140.62E 6–1 4.8,3.8s
MOS V 26 10 56 41.2–.84 37.07N 140.36E 41 5.0b,3.8s
NEIC V 26 10 56 41.5–.46 36.79N 140.37E 42–4 4.8b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ34.00000°,λ-75.00000°. NP2:ϕ_s144.00000°,δ58.00000°,λ-100.00000°. $M_0$9.25000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=11.0km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=139.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s139.00000°,δ50.00000°,λ-101.00000°. NP2:ϕ_s336.00000°,δ42.00000°,λ-78.00000°. Principal axes: T Plg4.0000°,Azm237.0000°; N Plg8.0000°,Azm146.0000°; P Plg81.0000° ,Azm353.0000°
MOS Error ellipse: s-maj=7.2km s-min=4.6km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=143.0. Felt at Karasuyama. Recorded [4 JMA] in Ibaraki.
ISC V 26 11 12 49.8–1.0 36.75N–.03 140.50E–.04 7–7 4.1b 49 0-147
NIED V 26 11 12 00 36.70N 140.70E 5 3.9W **¶16560148**
IDC V 26 11 12 48.9–.55 36.74N 140.53E 0 4.2,4.1
ISCJB V 26 11 12 49.5–.70 36.71N–.03 140.73E–.05 16–4 4.0b,4.1
JMA V 26 11 12 50.4 36.72N 140.63E 6–1 4.0,4.1
NEIC V 26 11 12 54.2–.32 36.77N 140.53E 35 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ25.00000°,λ-61.00000°. NP2:ϕ_s133.00000°,δ68.00000°,λ-103.00000°. $M_0$9.07000×10^{14}
IDC Error ellipse: s-maj=16.0km s-min=13.1km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.2km az=23.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s136.00000°,δ59.00000°,λ-106.00000°. NP2:ϕ_s345.00000°,δ34.00000°,λ-65.00000°. Principal axes: T Plg13.0000°,Azm237.0000°; N Plg14.0000°,Azm144.0000°; P Plg71.0000° ,Azm9.0000°
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=6.6km az=136.0. Recorded [3 JMA] in Ibaraki.
JMA V 26 11 19 13.6–.20 35.74N 140.94E 12–1 3.0
¶600623490
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 26 13 07 47.6–2.0 38.34N–.04 142.14E–.09 2–11 21 1-62
NIED V 26 13 07 00 38.50N 142.20E 17 3.4W **¶17204508**
IDC V 26 13 07 35.8–1.8 40.06N 142.44E 0 3.7b,3.6
JMA V 26 13 07 51.0–.10 38.45N 142.22E 28–2 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ40.00000°,λ-39.00000°. NP2:ϕ_s309.00000°,δ66.00000°,λ-123.00000°. $M_0$1.54000×10^{14}
IDC Error ellipse: s-maj=82.0km s-min=31.3km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 26 15 04 39.8–1.4 39.04N–.05 142.32E–.08 43–11 4.3b,3.3s 87 1-76
NIED V 26 15 04 00 39.10N 142.50E 35 4.0W,3.3s **¶16710985**
ISCJB V 26 15 04 38.4–.68 39.06N–.03 142.36E–.06 48–4 4.2b,3.4s
JMA V 26 15 04 38.3–.10 39.08N 142.38E 34–1 4.2,3.4s
NEIC V 26 15 04 41.1–.69 39.03N 142.32E 58–6 4.6b,3.4s

IDC V 26 15 04 41.9–2.3 39.05N 142.28E 61–20 4.0,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ15.00000°,λ-146.00000°. NP2:ϕ_s196.00000°,δ82.00000°,λ-77.00000°. $M_0$1.20000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.5km az=23.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=5.1km az=121.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=18.5km s-min=12.0km az=110.0.
IDC V 26 16 08 52.3–3.8 40.31N 142.66E 58–23 3.7,3.6 ¶17204514
IDC Error ellipse: s-maj=49.5km s-min=18.9km az=115.0.
ISC V 26 17 19 02.8–.70 36.52N–.04 141.43E–.05 26–4 4.2b,3.4s 118 1-147
NIED V 26 17 19 00 36.60N 141.40E 38 4.3W,3.4s **¶16560150**
ISCJB V 26 17 19 00.7–.84 36.53N–.03 141.51E–.04 25–5 4.2b,3.5s
MOS V 26 17 19 02.0–1.1 36.58N 141.49E 31 4.4b,3.5s
NEIC V 26 17 19 03.0–1.6 36.53N 141.39E 26–11 4.6b,3.5s
IDC V 26 17 19 04.2–3.4 36.53N 141.29E 33–26 4.2,4.1
JMA V 26 17 19 04.4–.10 36.56N 141.25E 46–2 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ10.00000°,λ156.00000°. NP2:ϕ_s283.00000°,δ86.00000°,λ81.00000°. $M_0$3.74000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=19.7.
MOS Error ellipse: s-maj=8.7km s-min=6.0km az=99.2.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=113.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.4km s-min=10.0km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 26 17 44 22.1–.10 36.43N 141.04E 46–1 3.6
NIED V 26 17 44 00 36.40N 141.00E 32 3.4W **¶600623763**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ44.00000°,λ114.00000°. NP2:ϕ_s58.00000°,δ50.00000°,λ68.00000°. $M_0$1.47000×10^{14}
ISC V 26 19 17 00.5–1.7 36.40N–.07 140.94E–.08 30–9 3.4b 23 0-60
ISCJB V 26 19 16 59.6–1.1 36.36N–.05 140.99E–.07 31–5 3.4b **¶600623843**
JMA V 26 19 17 01.2–.10 36.39N 140.89E 35–1 3.4
IDC V 26 19 17 07.5–1.2 35.09N 137.51E 0 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=7.0km az=27.0.
JMA Event type fe.
IDC Error ellipse: s-maj=32.5km s-min=19.2km az=93.0.
ISC V 26 22 09 15.9–1.1 35.89N–.09 140.98E–.10 31 3.6b 15 0-70
IDC V 26 22 09 11.9–1.5 35.78N 141.02E 0 3.7,3.6b **¶17204533**
ISCJB V 26 22 09 13.9–.94 35.88N–.07 141.11E–.09 31 3.6b,3.6b
JMA V 26 22 09 14.5–.10 35.91N 141.06E 29–2 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=47.8km s-min=21.2km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=8.3km az=42.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 26 22 52 59.2–.10 39.13N 142.49E 31–1 3.7
NIED V 26 22 52 00 39.10N 142.50E 26 3.4W **¶600623975**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ11.00000°,λ-84.00000°. NP2:ϕ_s186.00000°,δ79.00000°,λ-91.00000°. $M_0$1.36000×10^{14}
ISC V 26 23 34 46.3–1.0 37.06N–.04 141.28E–.05 19–3 4.0b 40 0-147
NIED V 26 23 34 00 37.10N 141.40E 5 3.8W **¶600624006**
IDC V 26 23 34 43.4–.74 37.06N 141.26E 0 4.0,3.9
ISCJB V 26 23 34 44.2–1.3 37.06N–.04 141.43E–.08 20–8 3.9b,3.1s
JMA V 26 23 34 44.9–.10 37.08N 141.37E 25–1 4.3,3.1s
NEIC V 26 23 34 50.0–.86 37.06N 141.18E 48–6 4.4b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ44.00000°,λ-94.00000°. NP2:ϕ_s212.00000°,δ46.00000°,λ-86.00000°. $M_0$5.90000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=15.6km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.8km az=14.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=127.0. Recorded [1 JMA] in Fukushima and Ibaraki.
ISC V 27 01 37 55.7–1.1 35.28N–.04 140.89E–.05 32–8 4.3b,3.3s 79 0-148
NIED V 27 01 37 00 35.30N 140.90E 41 4.1W,3.3s **¶16560154**
ISCJB V 27 01 37 55.4–.47 35.27N–.03 140.88E–.06 46–3 4.2b,3.2s
JMA V 27 01 37 55.9–.10 35.34N 140.87E 41–2 3.8,3.2s
NEIC V 27 01 37 55.5–1.6 35.33N 140.85E 29–11 4.4b,3.2s
IDC V 27 01 37 57.2–1.3 35.23N 140.84E 44–11 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ22.00000°,λ-164.00000°. NP2:ϕ_s231.00000°,δ84.00000°,λ-69.00000°. $M_0$1.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.6km az=101.0. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=13.4km s-min=7.5km az=77.0.
ISC V 27 04 44 03.6–.94 37.37N–.05 141.46E–.06 27–6 3.7b 30 0-146
NIED V 27 04 44 00 37.40N 141.50E 20 3.6W **¶17204544**
ISCJB V 27 04 44 01.5–1.2 37.34N–.04 141.55E–.08 24–7 3.7b
JMA V 27 04 44 03.2–.10 37.38N 141.46E 30–2 3.6
IDC V 27 04 44 04.0–.83 37.32N 141.44E 29–6 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ35.00000°,λ-37.00000°. NP2:ϕ_s360.00000°,δ70.00000°,λ-119.00000°. $M_0$3.18000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.1km az=11.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=19.6km az=84.0.
ISC V 27 04 48 53.9–3.0 38.42N–.05 142.22E–.08 12–17 3.7b 25 1-62
NIED V 27 04 48 00 38.50N 142.30E 20 3.8W **¶17204545**
ISCJB V 27 04 48 54.2–1.3 38.42N–.04 142.27E–.07 19–8 3.6b
JMA V 27 04 48 54.7–.10 38.46N 142.27E 26–1 4.0
IDC V 27 04 48 54.2–.99 37.99N 142.65E 0 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ12.00000°,λ-94.00000°. NP2:ϕ_s288.00000°,δ78.00000°,λ-89.00000°. $M_0$5.74000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.9km az=17.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=21.4km az=107.0.
JMA V 27 06 31 34.7–.10 36.55N 141.13E 30–1 3.1 ¶17204548
ISC V 27 06 32 32.6–1.0 35.75N–.04 140.88E–.08 13–5 3.5b 16 0-65
NIED V 27 06 32 00 35.80N 141.00E 8 3.5W **¶600624269**
ISCJB V 27 06 32 31.8–1.2 35.79N–.05 141.01E–.08 9–7 3.5b
IDC V 27 06 32 31.4–1.2 35.45N 140.86E 0 3.7,3.5
JMA V 27 06 32 32.3–.10 35.78N 140.97E 11–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ52.00000°,λ-40.00000°. NP2:ϕ_s134.00000°,δ59.00000°,λ-134.00000°. $M_0$2.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=7.6km az=172.9.
IDC Error ellipse: s-maj=30.6km s-min=27.8km az=116.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 27 08 51 47.3–1.1 36.95N–.08 141.3E–.10 40–9 3.4b 20 0-64
NIED V 27 08 51 00 36.90N 141.10E 47 3.7W **¶17204555**
ISCJB V 27 08 51 46.3–1.1 36.95N–.06 141.29E–.10 49–8 3.5b
IDC V 27 08 51 48.7–3.3 36.97N 141.23E 51–30 3.5,3.5
JMA V 27 08 51 48.6–.10 36.93N 141.08E 51–1 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ14.00000°,λ127.00000°. NP2:ϕ_s28.00000°,δ79.00000°,λ82.00000°. $M_0$4.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=8.3km az=31.4.
IDC Error ellipse: s-maj=29.1km s-min=17.7km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 27 10 00 53.7–1.5 35.54N–.06 141.1E–.10 33 15 0-56
ISCJB V 27 10 00 52.1–1.4 35.59N–.06 141.3E–.10 33 3.5b,3.0s **¶17204557**
JMA V 27 10 00 54.5–.10 35.55N 141.03E 38–1 3.0,3.0s
IDC V 27 10 00 58.5–6.6 35.49N 140.83E 67–44 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=6.9km az=157.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=90.2km s-min=17.4km az=78.0.
ISC V 27 10 22 38.0–2.0 40.42N–.06 142.70E–.09 26–13 3.7b 24 1-71
NIED V 27 10 22 00 40.50N 142.70E 35 3.7W **¶17204560**
JMA V 27 10 22 38.7–.10 40.46N 142.67E 27–2 3.8
IDC V 27 10 22 41.0–3.1 40.50N 142.77E 56–24 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ75.00000°. NP2:ϕ_s34.00000°,δ69.00000°,λ96.00000°. $M_0$4.46000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=41.7km s-min=18.9km az=83.0.
IDC V 27 10 58 55.4–1.2 36.15N 141.65E 0 3.5,3.3 ¶17204563
IDC Error ellipse: s-maj=29.8km s-min=23.5km az=107.0.
JMA V 27 11 32 11.2–.10 38.40N 142.12E 35–1 3.7
NIED V 27 11 32 00 38.40N 142.10E 35 3.4W **¶600624411**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ42.00000°,λ-42.00000°. NP2:ϕ_s254.00000°,δ63.00000°,λ-124.00000°. $M_0$1.66000×10^{14}
ISC V 27 14 39 25.2–.48 36.37N–.04 141.29E–.05 17–3 4.5b 129 1-147
NIED V 27 14 39 00 36.40N 141.20E 32 4.2W **¶16560157**
MOS V 27 14 39 26.5–1.3 36.45N 141.20E 37 4.5b
ISCJB V 27 14 39 26.0–.81 36.43N–.03 141.22E–.04 33–5 4.4b,3.9s
JMA V 27 14 39 27.3–.10 36.43N 141.12E 46–2 4.3,3.9s
NEIC V 27 14 39 28.0–.35 36.43N 141.18E 35 4.6b,3.9s
IDC V 27 14 39 30.7–1.8 36.32N 141.10E 59–17 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ10.00000°,λ-81.00000°. NP2:ϕ_s215.00000°,δ80.00000°,λ-92.00000°. $M_0$2.08000×10^{15}
MOS Error ellipse: s-maj=10.6km s-min=6.8km az=98.4.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=39.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=6.3km az=146.0. Recorded [2 JMA] in Ibaraki and Tochigi.
IDC Error ellipse: s-maj=14.6km s-min=8.9km az=70.0.
ISC V 27 14 59 31.8–2.5 38.3N–.30 142.5E–.30 24 3.6b 5 4-58
IDC V 27 14 59 37.9–3.4 38.64N 142.70E 51–32 3.4,3.3 **¶17204574**
ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=20.6km az=112.0.
ISC V 27 15 02 48.1–1.4 35.90N–.04 140.95E–.06 13–9 4.0b 40 0-148
NIED V 27 15 02 00 35.90N 141.10E 11 3.9W **¶16711067**
IDC V 27 15 02 46.5–.56 35.80N 140.86E 0 4.1,4.0
ISCJB V 27 15 02 48.4–.61 35.84N–.03 140.89E–.06 24–4 3.9b,2.6s
JMA V 27 15 02 48.2–.10 35.89N 140.97E 18–1 4.2,2.6s
NEIC V 27 15 02 51.2–.47 35.79N 140.80E 35 4.4b,2.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ32.00000°,λ-113.00000°. NP2:ϕ_s218.00000°,δ61.00000°,λ-76.00000°. $M_0$8.09000×10^{14}
IDC Error ellipse: s-maj=17.7km s-min=12.3km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.5km az=164.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s243.00000°,δ60.00000°,λ-97.00000°. NP2: ϕ_s76.00000°,δ30.00000°,λ-79.00000°. Principal axes: T Plg15.0000°,Azm338.0000° ; N Plg6.0000°,Azm246.0000°; P Plg74.0000°,Azm136.0000°
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=9.6km az=76.0. Recorded [1 JMA] in Chiba, Ibaraki and Tochigi.
IDC V 27 16 39 25.1–2.8 34.88N 140.22E 0 3.9,3.6 ¶17204578
IDC Error ellipse: s-maj=86.4km s-min=31.9km az=66.0.
JMA V 27 20 29 57.5 36.72N 140.61E 8 2.6 ¶600624690
JMA Event type fe.
JMA V 27 20 32 04.3 36.73N 140.60E 8–1 2.7 ¶600624691
JMA V 27 20 48 06.7 36.95N 140.67E 6–1 2.8 ¶600624696
ISC V 27 23 01 54.1–.47 39.81N–.03 142.07E–.04 51–3 4.8b,3.7s 387 0-145
NIED V 27 23 01 00 39.80N 142.10E 47 4.5W,3.7s **¶16551226**
MOS V 27 23 01 50.4–.93 39.77N 141.95E 33 5.0b,3.7s
JMA V 27 23 01 53.7 39.80N 142.14E 47–1 4.5,3.7s
ISCJB V 27 23 01 53.4–.27 39.81N–.02 142.04E–.03 57–2 4.8b,3.6s
IDC V 27 23 01 54.8–1.4 39.80N 142.09E 59–12 4.5,4.3
NEIC V 27 23 01 56.0–.38 39.82N 142.00E 68–3 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ26.00000°,λ43.00000°. NP2:ϕ_s30.00000°,δ73.00000°,λ110.00000°. $M_0$5.92000×10^{15}
MOS Error ellipse: s-maj=7.5km s-min=4.3km az=107.4.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=32.4.
IDC Error ellipse: s-maj=14.0km s-min=8.8km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=132.0. Recorded [3 JMA] in Iwate.
JMA V 28 00 52 35.0–.20 38.19N 142.15E 13–1 3.5
NIED V 28 00 52 00 38.20N 142.20E 5 3.3W **¶600624782**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ48.00000°,λ-64.00000°. NP2:ϕ_s324.00000°,δ48.00000°,λ-116.00000°. $M_0$8.76000×10^{13}
ISC V 28 01 08 11.3–1.8 39.59N–.05 142.61E–.06 13–10 4.1b,3.4s 54 1-88
NIED V 28 01 08 00 39.60N 142.70E 14 4.0W,3.4s **¶16560158**
JMA V 28 01 08 10.8–.10 39.56N 142.70E 25–1 4.2,3.4s
NEIC V 28 01 08 16.9–2.6 39.83N 142.35E 35 4.2b,3.4s
IDC V 28 01 08 17.4–2.1 39.58N 142.56E 66–18 3.9,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ45.00000°,λ-21.00000°. NP2:ϕ_s208.00000°,δ76.00000°,λ-133.00000°. $M_0$1.28000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=55.7km s-min=14.1km az=120.0. Recorded [1 JMA] in Aomori and Iwate.
IDC Error ellipse: s-maj=18.8km s-min=14.3km az=105.0.
ISC V 28 01 57 19.5–1.1 35.69N–.04 140.98E–.06 9–6 4.2b,3.4s 66 0-148
NIED V 28 01 57 00 35.70N 141.00E 8 4.3W,3.4s **¶16551244**
ISCJB V 28 01 57 17.1–.00 35.72N–.03 141.12E–.04 6–6 4.2b,3.3s
IDC V 28 01 57 18.2–.57 35.66N 140.88E 0 4.2,4.1L
NEIC V 28 01 57 19.5–2.7 35.69N 141.00E 9–17 4.5b,4.1L
JMA V 28 01 57 19.9–.20 35.71N 140.95E 11–1 4.4,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ39.00000°,λ-78.00000°. NP2:ϕ_s162.00000°,δ52.00000°,λ-100.00000°. $M_0$3.66000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.0km az=154.2.
IDC Error ellipse: s-maj=18.9km s-min=13.5km az=88.0.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=7.1km az=111.0. Recorded [3 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 28 02 13 10.5 36.72N 140.61E 7 1.1 ¶602919100
ISC V 28 02 13 59.5–.50 36.45N–.04 140.67E–.04 54–3 4.5b,3.1s 266 0-148
NIED V 28 02 13 00 36.50N 140.60E 59 4.3W,3.1s **¶16551248**
MOS V 28 02 13 57.6–.98 36.53N 140.62E 50 4.8b,3.1s
ISCJB V 28 02 13 58.9–.36 36.48N–.03 140.62E–.04 62–2 4.5b,3.1s
JMA V 28 02 13 59.8–.10 36.46N 140.60E 56–1 4.4,3.1s
NEIC V 28 02 14 00.5–.55 36.49N 140.53E 59–4 4.7b,3.1s
IDC V 28 02 14 02.2–1.5 36.40N 140.46E 77–13 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ21.00000°,λ62.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ100.00000°. $M_0$3.71000×10^{15}
MOS Error ellipse: s-maj=9.5km s-min=5.3km az=113.2.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=32.7.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ65.00000°,λ88.00000°. NP2:ϕ_s197.00000°,δ25.00000°,λ94.00000°. Principal axes: T Plg70.0000°,Azm279.0000°; N Plg2.0000°,Azm13.0000°; P Plg20.0000°

,Azm104.0000°
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.7km az=133.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=14.0km s-min=9.3km az=82.0.
ISC V 28 04 59 32.4–.64 36.31N–.06 141.58E–.07 26 3.7b 36 1-147
NIED V 28 04 59 00 36.30N 141.70E 11 3.7W **¶16631879**
IDC V 28 04 59 28.1–.64 36.19N 141.76E 0 4.0L,3.9
ISCJB V 28 04 59 30.2–.48 36.28N–.04 141.75E–.06 26 3.7b,2.3s
JMA V 28 04 59 30.2–.30 36.33N 141.72E 28–5 3.8,2.3s
NEIC V 28 04 59 32.9–.53 36.14N 141.70E 35 4.1b,2.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ43.00000°,λ-179.00000°. NP2:ϕ_s108.00000°,δ89.00000°,λ-47.00000°. $M_0$4.44000×10^{14}
IDC Error ellipse: s-maj=19.9km s-min=15.4km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.4km az=32.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.3km az=104.0.
ISC V 28 06 24 51.7–2.6 36.71N–.07 141.2E–.10 25–14 18 0-57
IDC V 28 06 24 52.0–2.1 36.93N 141.12E 0 3.6,3.5b **¶17204609**
JMA V 28 06 24 52.5–.10 36.74N 141.15E 27–1 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=21.5km az=17.0.
ISC V 28 06 37 45.4–2.0 36.76N–.05 141.10E–.09 0–12 19 0-57
ISCJB V 28 06 37 45.4–1.6 36.72N–.04 141.20E–.08 12–7 3.3b **¶17204610**
JMA V 28 06 37 46.4–.10 36.74N 141.16E 26–1 3.0
IDC V 28 06 37 49.2–2.0 36.50N 141.01E 0 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.7km az=15.5.
IDC Error ellipse: s-maj=30.6km s-min=20.1km az=21.0.
ISC V 28 07 05 00.9–.59 36.29N–.04 141.67E–.05 19 3.8b 31 1-147
IDC V 28 07 04 58.2–.68 36.28N 141.84E 0 3.9,3.8 **¶17204611**
ISCJB V 28 07 04 59.4–.48 36.30N–.04 141.81E–.05 19 3.7b,3.8
NIED V 28 07 05 00 36.30N 141.70E 8 4.0W,3.8
JMA V 28 07 05 00.8–.20 36.32N 141.73E 32 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=16.7km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.2km az=39.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ60.00000°,λ-154.00000°. NP2:ϕ_s118.00000°,δ68.00000°,λ-33.00000°. $M_0$9.62000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 28 08 36 11.1–.95 36.76N–.05 141.79E–.07 19 3.9b 32 1-75
NIED V 28 08 36 00 36.80N 141.70E 35 3.8W **¶16632923**
IDC V 28 08 36 07.4–1.6 36.73N 141.99E 0 3.8,3.8b
ISCJB V 28 08 36 08.4–.62 36.70N–.03 142.03E–.06 19 3.9b,3.2s
NEIC V 28 08 36 10.6–2.6 36.68N 141.96E 20–19 4.3b,3.2s
JMA V 28 08 36 13.2–.30 36.77N 141.66E 52–4 3.7,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ23.00000°,λ106.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ83.00000°. $M_0$6.63000×10^{14}
IDC Error ellipse: s-maj=32.4km s-min=22.3km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.7km az=15.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=8.9km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA V 28 09 30 45.8–.10 37.85N 141.91E 24–1 3.5
¶600625028
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 28 09 42 06.2–3.3 36.73N–.05 141.92E–.07 16–20 4.0b,3.5s 52 1-83
NIED V 28 09 42 00 36.70N 141.80E 35 4.4W,3.5s **¶16560162**
ISCJB V 28 09 42 06.7–.89 36.71N–.03 141.93E–.07 34–7 4.0b,3.3s
JMA V 28 09 42 07.1–.30 36.75N 141.85E 49 4.0,3.3s
NEIC V 28 09 42 10.7–.82 36.74N 141.76E 47–6 4.2b,3.3s
IDC V 28 09 42 10.3–2.0 36.70N 141.84E 47–17 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ21.00000°,λ82.00000°. NP2:ϕ_s23.00000°,δ69.00000°,λ93.00000°. $M_0$4.03000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.6km az=14.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.5km az=111.0.
IDC Error ellipse: s-maj=16.9km s-min=14.4km az=118.0.
ISC V 28 10 47 54.7–1.1 36.92N–.03 140.76E–.05 9–8 3.6b 20 0-61
NIED V 28 10 47 00 36.90N 140.70E 5 3.5W **¶17204620**
ISCJB V 28 10 47 53.9–.83 36.90N–.03 140.82E–.07 15–8 3.6b
JMA V 28 10 47 55.0 36.93N 140.67E 5–1 3.6
IDC V 28 10 48 02.4–4.1 36.46N 140.37E 35–33 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ22.00000°,λ-64.00000°. NP2:ϕ_s237.00000°,δ70.00000°,λ-100.00000°. $M_0$1.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=12.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s239.00000°,δ48.00000°,λ-87.00000°. NP2:ϕ_s55.00000°,δ42.00000°,λ-93.00000°. Principal axes: T Plg3.0000°,Azm327.0000°; N Plg2.0000°,Azm57.0000°; P Plg86.0000° ,Azm181.0000°
IDC Error ellipse: s-maj=27.7km s-min=20.3km az=87.0.
ISC V 28 11 55 14.5–.58 38.67N–.05 142.43E–.06 24 3.9b 42 1-145
NIED V 28 11 55 00 38.70N 142.40E 41 3.9W **¶17204625**
ISCJB V 28 11 55 12.8–.47 38.69N–.04 142.51E–.05 24 3.8b,3.6s
JMA V 28 11 55 14.8–.10 38.70N 142.40E 34–2 3.9,3.6s
IDC V 28 11 55 16.1–.73 38.62N 142.29E 37–6 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ39.00000°,λ75.00000°. NP2:ϕ_s347.00000°,δ53.00000°,λ102.00000°. $M_0$8.78000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.0km az=162.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.0km s-min=12.8km az=103.0.
ISC V 28 14 10 38.4–1.0 35.13N–.06 141.4E–.10 27 3.2b 13 1-65
IDC V 28 14 10 35.0–.99 35.12N 141.43E 0 3.4,3.4 **¶17204633**
ISCJB V 28 14 10 36.8–.83 35.12N–.05 141.46E–.09 27 3.2b,3.2s
JMA V 28 14 10 36.1–.30 35.15N 141.53E 47–5 2.2,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=18.7km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.9km az=0.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 28 15 28 03.8–.10 38.43N 142.30E 22–2 3.5
¶600625251
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 28 15 29 15.1–2.3 36.60N–.05 142.00E–.08 2–12 3.6b 24 1-57
IDC V 28 15 29 14.3–2.3 36.58N 142.12E 0 3.5,3.4b **¶17204640**
ISCJB V 28 15 29 15.3–1.3 36.58N–.04 142.08E–.07 15–7 3.5b,3.4b
JMA V 28 15 29 17.9–.30 36.62N 141.91E 66 2.9,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=54.7km s-min=27.8km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.7km az=13.9.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA V 28 15 48 31.3–.20 38.02N 142.20E 38–2 2.4
¶603241718
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 28 16 54 17.1–.81 35.66N–.05 140.08E–.06 74–6 4.0b 36 0-75
NIED V 28 16 54 00 35.70N 140.10E 71 4.0W **¶17204645**
ISCJB V 28 16 54 15.7–.47 35.65N–.04 140.10E–.06 79–3 3.9b
IDC V 28 16 54 15.8–2.3 35.67N 140.35E 68–17 3.9,3.6b
JMA V 28 16 54 16.5–.20 35.70N 140.09E 71–2 3.4,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ21.00000°,λ96.00000°. NP2:ϕ_s4.00000°,δ69.00000°,λ88.00000°. $M_0$1.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.9km az=151.3.
IDC Error ellipse: s-maj=34.9km s-min=10.7km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s3.00000°,δ67.00000°,λ80.00000°. NP2: ϕ_s207.00000°,δ25.00000°,λ112.00000°. Principal axes: T Plg67.0000°,Azm255.0000° ; N Plg9.0000°,Azm7.0000°; P Plg21.0000°,Azm101.0000°
ISC V 28 17 04 23.0–1.5 35.89N–.04 140.98E–.09 15–7 17 0-56
IDC V 28 17 04 21.0–3.1 35.92N 141.00E 0 4.0,4.0s **¶600625305**
ISCJB V 28 17 04 22.8–1.1 35.88N–.04 141.01E–.09 24–5 3.9s,3.5b
JMA V 28 17 04 22.8–.10 35.88N 140.99E 16–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=62.7km s-min=26.2km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.2km az=162.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 28 17 30 03.7–.20 37.30N 141.70E 33–3 3.6
¶600625318
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 28 17 59 40.4–1.5 40.55N–.05 141.98E–.10 41–13 3.6b 17 0-61
JMA V 28 17 59 39.8–.10 40.54N 142.05E 41–1 3.7 **¶600625340**
ISCJB V 28 17 59 40.0–1.0 40.55N–.04 142.0E–.10 46–9 3.5b
IDC V 28 17 59 41.8–2.9 40.49N 142.23E 67–25 3.5,3.4
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=7.3km az=178.2.
IDC Error ellipse: s-maj=43.3km s-min=22.2km az=81.0.
ISC V 28 18 52 54.5–1.3 38.84N–.04 142.26E–.08 50–10 4.3b 96 1-145
NIED V 28 18 52 00 38.90N 142.30E 47 4.3W **¶16577347**
ISCJB V 28 18 52 53.1–.63 38.85N–.03 142.35E–.06 56–4 4.3b,3.5s
JMA V 28 18 52 54.4 38.88N 142.26E 46–1 4.3,3.5s
NEIC V 28 18 52 56.6–.70 38.90N 142.29E 70–5 4.4b,3.5s
IDC V 28 18 52 59.7–2.5 38.82N 142.08E 92–22 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ28.00000°,λ6.00000°. NP2:ϕ_s218.00000°,δ87.00000°,λ117.00000°. $M_0$2.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.5km az=17.5.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=121.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=17.5km s-min=13.2km az=86.0.
ISC V 28 19 18 10.7–2.0 37.28N–.05 141.86E–.08 9–11 20 1-57
ISCJB V 28 19 18 12.8–1.5 37.29N–.05 141.84E–.08 15–8 3.4b **¶17204650**
IDC V 28 19 18 15.6–2.5 36.43N 141.83E 0 3.5,3.4b
JMA V 28 19 18 15.1–.20 37.29N 141.73E 38–3 3.6,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.0km az=22.0.
IDC Error ellipse: s-maj=53.6km s-min=30.3km az=48.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 28 21 04 01.4–1.4 37.32N–.04 141.52E–.08 43–12 3.8b 43 1-90
ISCJB V 28 21 04 00.4–.75 37.31N–.03 141.50E–.08 50–6 3.7b **¶17204654**
NIED V 28 21 04 00 37.30N 141.40E 44 3.9W
JMA V 28 21 04 02.2–.10 37.34N 141.37E 48–1 3.9
IDC V 28 21 04 03.3–2.1 37.28N 141.50E 63–19 3.8,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.3km az=11.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ20.00000°,λ64.00000°. NP2:ϕ_s25.00000°,δ72.00000°,λ99.00000°. $M_0$7.80000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=12.8km az=82.0.
ISC V 28 22 09 32.1–1.2 38.80N–.05 142.15E–.09 50 3.6b 22 0-59
NIED V 28 22 09 00 38.80N 142.10E 65 3.8W **¶17204656**
ISCJB V 28 22 09 31.2–1.0 38.83N–.04 142.15E–.09 50 3.5b
JMA V 28 22 09 32.9–.10 38.84N 142.06E 46–1 3.7
IDC V 28 22 09 45.0–18 38.43N 141.02E 133–112 3.4,3.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ10.00000°,λ-89.00000°. NP2:ϕ_s139.00000°,δ80.00000°,λ-90.00000°. $M_0$5.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.3km az=18.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=254.7km s-min=26.9km az=65.0.
JMA V 28 23 50 49.8–.20 35.79N 140.97E 12–1 3.0
¶600625547
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 29 00 03 06.7–.57 39.81N–.03 142.40E–.04 32–3 4.6b,3.4s 164 0-145
NIED V 29 00 03 00 39.70N 142.40E 44 4.3W,3.4s **¶16551422**
ISCJB V 29 00 03 04.7–.31 39.79N–.03 142.52E–.04 33 4.7b,3.4s
MOS V 29 00 03 05.9–1.0 39.93N 142.21E 33 4.6b,3.4s
JMA V 29 00 03 07.3 39.75N 142.36E 41–1 4.1,3.4s
IDC V 29 00 03 08.4–1.8 39.76N 142.36E 51–15 4.1,4.0
NEIC V 29 00 03 13.2–.66 40.24N 141.45E 38–6 4.8b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ21.00000°,λ76.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ95.00000°. $M_0$2.77000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=34.4.
MOS Error ellipse: s-maj=9.7km s-min=5.8km az=99.6.
JMA Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=10.5km az=108.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=134.0. Recorded [2 JMA] in Aomori.
JMA V 29 02 27 50.5 36.80N 140.57E 17–1 3.6
NIED V 29 02 27 00 36.80N 140.60E 41 3.5W **¶600625645**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ89.00000°,λ-56.00000°. NP2:ϕ_s308.00000°,δ34.00000°,λ-178.00000°. Principal axes: T Plg35.0000°,Azm278.0000°; N Plg34.0000°,Azm36.0000°; P Plg37.0000° ,Azm156.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ36.00000°,λ-161.00000°. NP2:ϕ_s215.00000°,δ79.00000°,λ-55.00000°. $M_0$2.06000×10^{14}
ISC V 29 02 55 50.7–1.7 36.57N–.05 141.13E–.08 20–13 3.6b 21 0-78
NIED V 29 02 55 00 36.60N 141.10E 8 3.7W **¶17204666**
ISCJB V 29 02 55 50.3–1.0 36.54N–.04 141.15E–.07 28–5 3.6b
JMA V 29 02 55 51.5–.10 36.57N 141.06E 36–1 3.8
IDC V 29 02 55 52.9–.89 35.88N 140.76E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ48.00000°,λ-24.00000°. NP2:ϕ_s336.00000°,δ73.00000°,λ-135.00000°. $M_0$4.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.5km az=18.9.
JMA Event type fe.
IDC Error ellipse: s-maj=22.9km s-min=18.8km az=92.0.
ISC V 29 03 12 18.4–1.2 38.17N–.05 141.75E–.08 45–10 3.8b 46 0-89
NIED V 29 03 12 00 38.20N 141.70E 50 4.0W **¶16560171**
ISCJB V 29 03 12 18.1–.67 38.17N–.04 141.70E–.08 58–4 3.8b,2.3s
JMA V 29 03 12 18.6–.10 38.17N 141.70E 50–1 3.8,2.3s
IDC V 29 03 12 21.8–2.3 38.13N 141.60E 77–20 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ22.00000°,λ92.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ89.00000°. $M_0$1.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.3km az=22.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=14.3km az=95.0.
JMA V 29 03 58 13.7 39.63N 142.12E 48–1 3.9
NIED V 29 03 58 00 39.60N 142.10E 68 3.7W **¶600625684**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ33.00000°,λ-4.00000°. NP2:ϕ_s232.00000°,δ88.00000°,λ-123.00000°. $M_0$4.34000×10^{14}
ISC V 29 04 23 31.4–1.3 36.95N–.03 140.54E–.04 3–9 3.8b 30 0-147
NIED V 29 04 23 00 37.00N 140.60E 8 3.9W **¶17204669**
ISCJB V 29 04 23 32.2–.53 36.97N–.03 140.66E–.05 18–4 3.7b,2.9s
JMA V 29 04 23 32.5 36.98N 140.60E 10–1 4.2,2.9s
IDC V 29 04 23 40.9–2.8 36.83N 140.18E 76–24 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s276.00000°,δ53.00000°,λ-134.00000°. NP2:ϕ_s154.00000°,δ55.00000°,λ-48.00000°. $M_0$6.96000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=24.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s276.00000°,δ52.00000°,λ-129.00000°. NP2:ϕ_s150.00000°,δ52.00000°,λ-51.00000°. Principal axes: T Plg0.0000°,Azm33.0000°; N Plg30.0000°,Azm303.0000°; P Plg60.0000° ,Azm123.0000°
IDC Error ellipse: s-maj=26.3km s-min=16.7km az=83.0.
ISC V 29 04 44 11.9–1.9 36.85N–.04 140.76E–.06 5–13 3.7b 23 0-61

NIED V 29 04 44 00 36.90N 140.70E 5 3.5W ¶17204671
IDC V 29 04 44 11.5–2.1 36.84N 140.81E 0 3.9L,3.8
ISCJB V 29 04 44 12.4–.79 36.84N–.03 140.81E–.06 15–4 3.6b,3.8
JMA V 29 04 44 13.5 36.87N 140.69E 8–1 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ30.00000°,λ-97.00000°. NP2:ϕ_s171.00000°,δ60.00000°,λ-86.00000°. $M_0$2.21000×10^{14}
IDC Error ellipse: s-maj=45.4km s-min=26.0km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.3km az=20.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s353.00000°,δ49.00000°,λ-88.00000°. NP2:ϕ_s169.00000°,δ41.00000°,λ-93.00000°. Principal axes: T Plg4.0000°,Azm81.0000°; N Plg2.0000°,Azm171.0000°; P Plg86.0000°,Azm288.0000°
ISC V 29 06 13 27.0–2.2 36.99N–.06 141.42E–.09 7–11 3.5b 20 1-57
IDC V 29 06 13 25.6–2.0 36.86N 141.52E 0 3.5,3.4b ¶17204676
ISCJB V 29 06 13 26.7–1.5 36.96N–.06 141.49E–.08 15–9 3.5b,3.4b
JMA V 29 06 13 29.1–.10 36.98N 141.32E 26–1 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=44.3km s-min=28.9km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.6km az=38.2.
ISC V 29 09 38 39.5–1.5 37.79N–.06 141.9E–.10 35–16 3.4b 35 1-146
NIED V 29 09 38 00 37.80N 141.80E 44 3.7W ¶17204686
IDC V 29 09 38 34.0–.89 37.68N 142.07E 0 3.8,3.5
ISCJB V 29 09 38 39.7–1.0 37.77N–.04 141.83E–.09 51–10 3.5b,3.5
JMA V 29 09 38 40.5–.10 37.78N 141.76E 48–2 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ22.00000°,λ91.00000°. NP2:ϕ_s151.00000°,δ68.00000°,λ90.00000°. $M_0$4.18000×10^{14}
IDC Error ellipse: s-maj=27.2km s-min=21.5km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=6.3km az=17.9.
JMA Event type fe.
ISC V 29 09 40 41.8–.55 38.32N–.04 141.84E–.05 54–4 4.2b 116 0-149
NIED V 29 09 40 00 38.40N 141.80E 56 4.2W ¶16551480
MOS V 29 09 40 41.8–1.3 38.31N 141.91E 75 4.2b
ISCJB V 29 09 40 41.0–.48 38.34N–.03 141.83E–.05 61–3 4.2b
IDC V 29 09 40 42.1–.65 38.34N 141.82E 57–5 4.1,4.0
JMA V 29 09 40 42.1–.10 38.37N 141.77E 54–1 4.2,4.0
NEIC V 29 09 40 44.0–.78 38.32N 141.75E 72–7 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ46.00000°,λ71.00000°. NP2:ϕ_s223.00000°,δ47.00000°,λ109.00000°. $M_0$2.24000×10^{15}
MOS Error ellipse: s-maj=11.7km s-min=7.1km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=20.7.
IDC Error ellipse: s-maj=15.4km s-min=11.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=7.1km az=108.0. Recorded [2 JMA] in Iwate and Miyagi.
ISC V 29 09 49 17.1–1.2 36.35N–.04 141.20E–.05 35–3 3.8b 42 1-91
NIED V 29 09 49 00 36.40N 141.00E 47 4.1W ¶17204687
ISCJB V 29 09 49 16.7–.69 36.36N–.03 141.13E–.06 46–6 3.7b
JMA V 29 09 49 18.3–.10 36.42N 141.01E 50–1 4.1
IDC V 29 09 49 21.5–2.3 36.34N 140.85E 75–22 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ49.00000°,λ2.00000°. NP2:ϕ_s235.00000°,δ89.00000°,λ139.00000°. $M_0$1.39000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.4km az=15.6.
JMA Event type fe.
IDC Error ellipse: s-maj=22.4km s-min=14.9km az=82.0.
ISC V 29 11 41 39.5–1.1 36.80N–.03 140.60E–.04 6–7 3.6b 27 0-91
NIED V 29 11 41 00 36.80N 140.60E 5 3.8W ¶17204697
ISCJB V 29 11 41 38.8–.60 36.78N–.03 140.65E–.05 14–4 3.5b
IDC V 29 11 41 38.2–.79 36.64N 140.61E 0 3.8,3.6
JMA V 29 11 41 39.3 36.81N 140.57E 6–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ16.00000°,λ-124.00000°. NP2:ϕ_s205.00000°,δ77.00000°,λ-81.00000°. $M_0$5.13000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=4.4km az=28.4.
IDC Error ellipse: s-maj=21.6km s-min=17.7km az=120.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s202.00000°,δ74.00000°,λ-80.00000°. NP2:ϕ_s350.00000°,δ19.00000°,λ-121.00000°. Principal axes: T Plg28.0000°,Azm284.0000°; N Plg10.0000°,Azm19.0000°; P Plg60.0000°,Azm126.0000°
JMA V 29 13 17 04.3–.10 38.18N 142.42E 32–2 3.7
NIED V 29 13 17 00 38.20N 142.40E 14 3.6W ¶600625903
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ30.00000°,λ13.00000°. NP2:ϕ_s162.00000°,δ84.00000°,λ119.00000°. $M_0$2.72000×10^{14}
JMA V 29 13 39 54.8–.10 35.71N 140.67E 48–1 3.1
¶600625915
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 29 15 50 24.3–1.1 36.95N–.03 140.66E–.04 13–10 25 0-61
IDC V 29 15 50 24.0–2.4 36.82N 140.63E 0 3.6,3.4 ¶600625977
ISCJB V 29 15 50 24.6–.59 36.92N–.03 140.72E–.05 17–7 3.5b,3.4
JMA V 29 15 50 25.2 36.94N 140.62E 7–1 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=36.7km s-min=17.4km az=11.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.1km az=26.7.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s53.00000°,δ56.00000°,λ-84.00000°. NP2:ϕ_s223.00000°,δ34.00000°,λ-99.00000°. Principal axes: T Plg11.0000°,Azm139.0000°; N Plg5.0000°,Azm230.0000°; P Plg78.0000°,Azm344.0000°
ISC V 29 17 32 48.3–2.0 37.08N–.05 141.47E–.07 1–12 3.3b 22 1-61
ISCJB V 29 17 32 48.1–1.3 37.06N–.04 141.52E–.06 8–7 3.3b ¶17204712
IDC V 29 17 32 48.2–2.2 37.10N 141.55E 0 3.5,3.4b
JMA V 29 17 32 50.7–.10 37.07N 141.37E 26–1 3.6,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.2km az=13.3.
IDC Error ellipse: s-maj=47.1km s-min=28.2km az=44.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 29 18 32 13.0–1.5 39.06N–.04 142.44E–.06 18–7 4.1b 35 1-73
NIED V 29 18 32 00 39.10N 142.50E 29 3.9W ¶17204715
JMA V 29 18 32 14.2–.10 39.12N 142.47E 32–1 4.3
IDC V 29 18 32 19.2–3.8 38.97N 142.38E 75–35 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ30.00000°,λ-104.00000°. NP2:ϕ_s163.00000°,δ61.00000°,λ-82.00000°. $M_0$7.68000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.3km s-min=16.5km az=96.0.
ISC V 29 19 13 07.6–2.3 36.64N–.07 141.49E–.07 16–13 3.6b 24 1-90
ISCJB V 29 19 13 08.6–1.4 36.74N–.07 141.72E–.09 34–12 3.5b ¶17204721
JMA V 29 19 13 10.1–.20 36.74N 141.51E 48–3 3.4
IDC V 29 19 13 11.9–2.8 36.71N 141.62E 47–26 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=9.3km az=42.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=23.4km s-min=15.7km az=117.0.
ISC V 30 00 51 12.1–1.0 35.64N–.05 140.24E–.09 50 3.9b 18 0-57
ISCJB V 30 00 51 12.0–.95 35.61N–.05 140.3E–.10 50 4.0b ¶17204734
JMA V 30 00 51 13.1–.20 35.67N 140.21E 63–2 2.9
IDC V 30 00 51 14.4–4.1 35.52N 140.19E 74–27 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=6.3km az=168.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=59.4km s-min=7.3km az=66.0.
JMA V 30 01 12 42.5–.10 38.74N 142.24E 33–2 4.0
¶600626221
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 30 01 18 39.8–3.4 36.9N–.10 141.5E–.20 33 10 1-57
JMA V 30 01 18 33.5–.30 36.62N 142.03E 39 3.3 ¶17204735
IDC V 30 01 18 43.1–2.3 36.38N 141.17E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

IDC Error ellipse: s-maj=50.1km s-min=26.4km az=50.0.
JMA V 30 02 00 02.3–.10 36.99N 140.94E 51–1 2.9
¶600626242
ISC V 30 03 14 22.4–1.1 35.54N–.06 140.11E–.08 65–9 3.4b 16 0-59
ISCJB V 30 03 14 21.5–.75 35.50N–.06 140.1E–.10 77–7 3.5b ¶17204737
JMA V 30 03 14 22.2–.20 35.59N 140.12E 63–2 2.8
IDC V 30 03 14 24.2–1.9 35.42N 140.07E 82–16 3.5,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.9km s-min=8.6km az=157.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=7.2km az=69.0.
ISC V 30 05 21 35.9–2.0 37.32N–.04 141.32E–.08 6–11 3.6b 23 0-57
IDC V 30 05 21 33.9–2.1 37.37N 141.52E 0 3.5,3.4b ¶600626337
ISCJB V 30 05 21 36.3–1.3 37.31N–.04 141.37E–.08 17–8 3.3b,3.0s
JMA V 30 05 21 39.4–.10 37.34N 141.14E 27–1 3.7,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=31.5km az=61.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.9km az=11.9.
JMA Event type fe.
JMA V 30 05 28 14.6–.10 35.51N 140.12E 23–1 3.0
¶17204740
JMA Event type fe.
ISC V 30 05 28 37.2–1.1 36.94N–.03 140.80E–.05 19–3 3.1b 23 0-64
IDC V 30 05 28 34.0–1.4 37.02N 140.99E 0 3.8L,3.5 ¶600626343
ISCJB V 30 05 28 36.4–.83 36.93N–.03 140.90E–.06 19–5 3.2b,3.5
JMA V 30 05 28 37.9 36.96N 140.73E 14–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=34.9km s-min=24.8km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.8km az=20.1.
JMA Event type fe.
JMA V 30 06 34 56.2–.10 38.66N 142.07E 43–1 3.6
¶600626365
JMA Event type fe.
JMA V 30 06 41 51.9–.10 38.35N 141.94E 15–1 4.0
¶600626370
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 30 06 56 21.3–.10 38.49N 142.11E 39–1 3.6
¶600626377
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 30 06 57 45.3–.20 38.84N 142.44E 31–3 3.6
¶600626378
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 30 12 24 04.2–1.6 37.34N–.04 141.38E–.06 5–9 4.0b 44 0-147
NIED V 30 12 24 00 37.30N 141.40E 14 3.9W ¶16551574
IDC V 30 12 24 03.3–.62 37.28N 141.45E 0 4.1,3.9
ISCJB V 30 12 24 04.8–.97 37.30N–.03 141.45E–.06 19–6 3.9b,3.9
JMA V 30 12 24 06.3–.10 37.33N 141.36E 30–1 3.8,3.9
NEIC V 30 12 24 08.7–.48 37.31N 141.41E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ28.00000°,λ-101.00000°. NP2:ϕ_s232.00000°,δ63.00000°,λ-84.00000°. $M_0$9.43000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=14.7km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.9km az=21.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.3km s-min=8.4km az=135.0. Recorded [1 JMA] in Fukushima.
IDC V 30 12 35 13.4–8.3 36.61N 141.96E 0 3.5,3.4b
¶17204761
IDC Error ellipse: s-maj=180.4km s-min=43.5km az=30.0.
ISC V 30 13 40 08.3–.98 40.88N–.05 142.05E–.07 57 3.6b 20 1-66
ISCJB V 30 13 40 07.0–.71 40.87N–.04 142.14E–.08 57 3.7b ¶17204766
JMA V 30 13 40 07.9–.10 40.91N 142.13E 50–3 3.3
IDC V 30 13 40 08.0–5.2 40.84N 141.98E 55–59 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.1km az=23.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=60.7km s-min=22.7km az=71.0.
ISC V 30 18 23 54.9–1.3 39.62N–.04 142.02E–.09 45–8 23 0-43
ISCJB V 30 18 23 54.1–.91 39.63N–.04 142.1E–.10 51–6 3.5b ¶17204776
JMA V 30 18 23 54.2 39.64N 142.11E 48–1 3.3
IDC V 30 18 23 56.1–3.7 40.13N 140.89E 0 3.7b,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=5.6km az=7.5.
JMA Event type fe.
IDC Error ellipse: s-maj=75.8km s-min=33.1km az=110.0.
ISC V 30 18 34 51.9–.84 38.62N–.05 141.05E–.06 93–6 3.6b 36 0-62
ISCJB V 30 18 34 50.8–.50 38.61N–.04 141.05E–.06 99–3 3.5b ¶17204778
JMA V 30 18 34 52.0 38.62N 141.00E 92–1 3.3
IDC V 30 18 34 52.8–2.2 38.59N 141.05E 107–20 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.7km az=28.4.
JMA Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=15.9km az=90.0.
ISC V 30 19 36 39.4–.48 36.50N–.03 140.92E–.03 28–2 4.9b,4.2s 488 0-152
NIED V 30 19 36 00 36.50N 140.90E 5 4.7W,4.2s ¶16551585
IDC V 30 19 36 35.1–.44 36.48N 140.85E 0 4.7,4.6
JMA V 30 19 36 36.8–.10 36.51N 140.93E 15–1 5.0,4.6
ISCJB V 30 19 36 37.5–.50 36.48N–.03 140.84E–.02 23–3 4.8b,4.2s
MOS V 30 19 36 39.0–1.3 36.55N 140.86E 33 5.0b,4.5s
NEIC V 30 19 36 41.5–.60 36.47N 140.76E 42–5 4.9b,4.5s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ33.00000°,λ-50.00000°. NP2:ϕ_s153.00000°,δ65.00000°,λ-113.00000°. $M_0$1.48000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=113.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ56.00000°,λ-49.00000°. NP2:ϕ_s172.00000°,δ51.00000°,λ-134.00000°. Principal axes: T Plg3.0000°,Azm112.0000°; N Plg33.0000°,Azm204.0000°; P Plg57.0000°,Azm17.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=154.2.
MOS Error ellipse: s-maj=6.3km s-min=4.4km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.3km az=143.0. Felt at Akiruno and Tsukuba. Recorded [3 JMA] in Ibaraki and Tochigi.
ISC V 30 20 39 18.4–1.1 36.79N–.04 140.55E–.05 10–9 3.6b 20 0-91
NIED V 30 20 39 00 36.80N 140.60E 5 3.6W ¶17204785
IDC V 30 20 39 16.9–1.3 36.75N 140.56E 0 3.8,3.6
ISCJB V 30 20 39 18.0–.68 36.78N–.04 140.65E–.06 19–5 3.5b,3.6
JMA V 30 20 39 18.7 36.81N 140.56E 7–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ42.00000°,λ-110.00000°. NP2:ϕ_s168.00000°,δ51.00000°,λ-73.00000°. $M_0$2.46000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=24.6km az=4.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=5.5km az=38.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ50.00000°,λ-103.00000°. NP2:ϕ_s150.00000°,δ42.00000°,λ-75.00000°. Principal axes: T Plg4.0000°,Azm49.0000°; N Plg10.0000°,Azm318.0000°; P Plg79.0000°,Azm161.0000°
IDC V 31 00 01 03.4–13 40.48N 142.96E 0 3.7,3.7b
¶17204796
IDC Error ellipse: s-maj=256.5km s-min=48.9km az=100.0.
ISC V 31 03 07 47.3–1.0 35.71N–.05 141.29E–.07 25 3.3b 15 0-56
ISCJB V 31 03 07 45.5–.83 35.74N–.05 141.45E–.08 25 3.2b ¶17204805
IDC V 31 03 07 45.8–1.4 35.92N 141.22E 0 3.4,3.4L
JMA V 31 03 07 47.8–.10 35.71N 141.25E 37–1 3.1,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.1km az=23.9.
IDC Error ellipse: s-maj=32.8km s-min=24.8km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 31 04 23 04.5–2.4 38.36N–.06 142.2E–.10 27–15 16 1-58
ISCJB V 31 04 23 03.8–1.6 38.34N–.05 142.20E–.10 28–8 3.4b ¶17204807
JMA V 31 04 23 05.1–.10 38.40N 142.17E 31–2 3.6
IDC V 31 04 23 05.1–3.0 37.70N 142.65E 0 3.5,3.4b

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=8.2km az=15.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=70.7km s-min=38.2km az=59.0.

ISC	**V**	**31 07 12 19.7–1.2**	**37.19N–.04**	**141.15E–.07**	**28–7**	**3.7b**	**31**	**0-147**
NIED	V	31 07 12 00	37.20N	141.10E	35	3.8W		¶17204813
ISCJB	V	31 07 12 18.1–.99	37.17N–.04	141.27E–.06	23–5	3.7b,3.2s		
JMA	V	31 07 12 20.2–.10	37.20N	141.09E	32–1	3.9,3.2s		
IDC	V	31 07 12 25.7–3.1	37.08N	140.86E	75–27	3.7,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ12.00000°,λ-77.00000°. NP2:ϕ_s238.00000°,δ79.00000°,λ-93.00000°. $M_0$6.05000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.4km az=25.2.
JMA Event type fe.
IDC Error ellipse: s-maj=26.2km s-min=21.8km az=93.0.

ISC	**V**	**31 07 50 13.6–1.0**	**36.24N–.03**	**141.01E–.04**	**29–7**	**4.3b,3.5s**	**127**	**1-147**
NIED	V	31 07 50 00	36.20N	141.00E	41	4.3W,3.5s		¶16560237
ISCJB	V	31 07 50 13.2–.55	36.28N–.03	141.02E–.04	37–4	4.3b,3.5s		
JMA	V	31 07 50 13.2–.10	36.22N	141.00E	45–1	4.4,3.5s		
NEIC	V	31 07 50 16.6–.57	36.43N	140.87E	45–5	4.6b,3.5s		
IDC	V	31 07 50 16.9–1.7	36.20N	140.94E	58–15	4.1,4.0		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ13.00000°,λ34.00000°. NP2:ϕ_s13.00000°,δ83.00000°,λ101.00000°. $M_0$3.33000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.6km az=23.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=143.0. Felt at Narita and Tsukuba. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=13.9km s-min=8.8km az=70.0.

ISC	**V**	**31 12 28 35.5–.36**	**39.36N–.03**	**142.03E–.03**	**46–2**	**5.3b,5.0s**	**1213**	**0-159**
NIED	V	31 12 28 00	39.40N	142.10E	50	5.4W,5.0s		¶16552288
BJI	V	31 12 28 31.0	39.22N	142.39E	45	5.3b,5.0b		
MOS	V	31 12 28 33.6–.88	39.43N	141.79E	36	5.5b,5.0s		
JMA	V	31 12 28 35.7	39.34N	142.06E	48–1	5.3,5.0s		
ISCJB	V	31 12 28 35.8–.23	39.39N–.02	141.91E–.02	58–1	5.2b,4.8s		
IDC	V	31 12 28 36.7–1.6	39.33N	141.98E	59–14	4.7s,4.7		
NEIC	V	31 12 28 38.3–.43	39.41N	141.79E	65–3	5.3b,4.7		
GCMT	V	31 12 28 38.3–.10	39.40N	142.09E	49–0	5.4W,4.7		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s27.00000°,δ69.00000°,λ101.00000°. $M_0$1.31000×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=104.7.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=154.5.
IDC Error ellipse: s-maj=12.7km s-min=9.4km az=109.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=148.0. Felt at Ichinoseki and Misawa. Recorded [4 JMA] in Iwate.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c174; s121,c228; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.03 $M_{\theta\theta}$-0.17±.02; $M_{\phi\phi}$-1.11±.02; $M_{r\theta}$0.55±.02; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$0.99±.02; Best double couple: NP1:ϕ_s24.00000°,δ66.00000°,λ97.00000°. NP2:ϕ_s187.00000°,δ25.00000°,λ74.00000°. Principal axes: T 1.7370,Plg68.0000°,Azm307.0000°; N -0.1380,Plg7.0000°,Azm201.0000°; P -1.5960,Plg21.0000°,Azm109.0000° $M_0$1.66700×10^{17}

JMA	**V**	**31 15 22 41.3–.10**	**39.06N**	**142.41E**	**32–1**	**3.5**		
								¶600627235

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**31 16 41 19.3–1.6**	**37.65N–.05**	**141.8E–.10**	**45–14**	**3.9b**	**49**	**1-146**
NIED	V	31 16 41 00	37.70N	141.70E	68	4.1W		¶600627276
ISCJB	V	31 16 41 18.0–.85	37.66N–.04	141.89E–.07	49–7	3.9b,3.8s		
JMA	V	31 16 41 19.6	37.66N	141.76E	44–2	4.2,3.8s		
IDC	V	31 16 41 23.2–2.4	37.67N	141.69E	81–22	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ34.00000°,λ91.00000°. NP2:ϕ_s203.00000°,δ56.00000°,λ89.00000°. $M_0$1.49000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=22.5.
JMA Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=13.4km az=105.0.

ISC	**V**	**31 17 15 16.9–.78**	**38.90N–.05**	**142.00E–.07**	**45–5**	**4.3b,3.4s**	**81**	**0-81**
NEIC	V	31 17 14 38.6–.91	36.63N	146.46E	10	4.8b,3.4s		¶17204836
NIED	V	31 17 15 00	38.90N	142.00E	50	4.2W,3.4s		
ISCJB	V	31 17 15 16.5–.66	38.89N–.03	142.01E–.07	57–3	4.2b,3.2s		
JMA	V	31 17 15 17.1–.10	38.88N	142.00E	50–1	4.1,3.2s		
IDC	V	31 17 15 19.5–1.1	38.91N	141.95E	68–7	3.9,3.7		

ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=16.3km s-min=14.4km az=130.0. Recorded [2 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ25.00000°,λ56.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ105.00000°. $M_0$2.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=4.6km az=20.8.
JMA Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=9.6km az=118.0.

JMA	**V**	**31 20 57 03.3–.20**	**36.91N**	**141.38E**	**44–2**	**3.5**		
								¶600627408

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**31 23 03 40.9–.86**	**35.54N–.06**	**141.13E–.09**	**33**	**3.6b**	**23**	**0-75**
NIED	V	31 23 03 00	35.60N	141.10E	44	3.9W		¶17204854
IDC	V	31 23 03 35.7–1.1	35.47N	141.33E	0	3.8,3.7		
ISCJB	V	31 23 03 38.6–.62	35.57N–.04	141.26E–.07	33	3.6b,3.4s		
JMA	V	31 23 03 40.6–.10	35.56N	141.03E	36–1	3.6,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ47.00000°,λ176.00000°. NP2:ϕ_s327.00000°,δ87.00000°,λ43.00000°. $M_0$8.63000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=17.4km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.5km az=5.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**31 23 19 58.6–1.1**	**36.74N–.06**	**140.63E–.05**	**9–7**	**4.0b**	**37**	**0-147**
NIED	V	31 23 19 00	36.70N	140.60E	5	3.9W		¶16552793
IDC	V	31 23 19 57.2–.66	36.72N	140.64E	0	4.1,3.9		
ISCJB	V	31 23 19 58.0–.65	36.67N–.03	140.72E–.05	18–4	3.9b,3.9		
JMA	V	31 23 19 59.3	36.73N	140.59E	8–1	3.8,3.9		
NEIC	V	31 23 20 03.1–1.6	36.73N	140.51E	41–14	4.3b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ40.00000°,λ-97.00000°. NP2:ϕ_s180.00000°,δ50.00000°,λ-84.00000°. $M_0$6.83000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=16.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.6km az=35.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s165.00000°,δ46.00000°,λ-97.00000°. NP2:ϕ_s355.00000°,δ44.00000°,λ-83.00000°. Principal axes: T Plg1.0000°,Azm260.0000°; N Plg5.0000°,Azm170.0000°; P Plg85.0000°,Azm1.0000°
NEIC Event type fe. Error ellipse: s-maj=13.0km s-min=9.1km az=86.0. Recorded [3 JMA] in Ibaraki.

ISC	**V**	**31 23 53 57.7–.47**	**38.59N–.05**	**142.04E–.05**	**41**	**4.4b,3.4s**	**149**	**1-145**
NIED	V	31 23 53 00	38.60N	141.90E	50	4.3W,3.4s		¶16577363
ISCJB	V	31 23 53 56.1–.30	38.61N–.03	142.12E–.04	41	4.3b,3.5s		
MOS	V	31 23 53 59.0–.97	38.71N	141.90E	61	4.8b,3.5s		
JMA	V	31 23 53 59.0–.10	38.64N	141.91E	49–1	4.2,3.5s		
NEIC	V	31 23 54 00.1–.62	38.63N	142.00E	61–5	4.7b,3.5s		
IDC	V	31 23 54 01.1–2.1	38.63N	141.87E	68–18	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ20.00000°,λ62.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ100.00000°. $M_0$3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.4km az=42.4.
MOS Error ellipse: s-maj=9.8km s-min=6.4km az=105.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=5.0km az=128.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=16.2km s-min=13.7km az=117.0.

JMA	**VI**	**01 00 54 57.0**	**36.83N**	**140.57E**	**6–1**	**3.7**		
NIED	VI	01 00 54 00	36.80N	140.60E	5	3.5W		¶600627526

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ68.00000°,λ-76.00000°. NP2:ϕ_s325.00000°,δ26.00000°,λ-122.00000°. Principal axes: T Plg22.0000°,Azm259.0000°; N Plg13.0000°,Azm354.0000°; P Plg64.0000°,Azm113.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ20.00000°,λ-126.00000°. NP2:ϕ_s191.00000°,δ74.00000°,λ-78.00000°. $M_0$2.26000×10^{14}

JMA	**VI**	**01 02 36 12.3–.10**	**38.22N**	**141.82E**	**47–1**	**1.8**		
								¶600627605

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**01 04 00 05.6–.85**	**36.78N–.03**	**141.87E–.04**	**29–5**	**4.5b,4.1s**	**207**	**1-146**
IDC	VI	01 04 00 00.9–.62	36.79N	142.06E	0	4.4,4.3		¶16558666
NIED	VI	01 04 00 00	36.70N	142.20E	20	4.5W,4.3		
JMA	VI	01 04 00 01.0–.40	36.72N	142.24E	16–4	4.5,4.3		
BJI	VI	01 04 00 04.4	36.98N	141.69E	23	4.9b,4.6b		
ISCJB	VI	01 04 00 05.2–.58	36.70N–.03	141.96E–.05	42–4	4.5b,4.0s		
NEIC	VI	01 04 00 07.3–.81	36.82N	141.89E	40–7	4.6b,4.0s		
MOS	VI	01 04 00 08.1–1.2	37.26N	141.70E	39	4.7b,4.0s		

ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=12.7km az=124.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ21.00000°,λ91.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ90.00000°. $M_0$6.50000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.1km az=20.5.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.7km az=141.0.
MOS Error ellipse: s-maj=8.8km s-min=6.0km az=110.2.

ISC	**VI**	**01 08 18 18.5–.34**	**35.49N–.03**	**140.68E–.04**	**10**	**4.5b,3.8s**	**207**	**0-148**
NIED	VI	01 08 18 00	35.50N	140.80E	38	4.6W,3.8s		¶16552800
IDC	VI	01 08 18 15.9–.50	35.33N	140.60E	0	4.4,4.3		
BJI	VI	01 08 18 17.1	35.25N	140.73E	25	4.8b,4.6b		
ISCJB	VI	01 08 18 17.2–.21	35.41N–.03	140.55E–.03	10	4.5b,3.8s		
MOS	VI	01 08 18 18.6–1.4	35.34N	140.57E	27	4.7b,3.8s		
JMA	VI	01 08 18 18.9–.10	35.53N	140.72E	28–1	4.5,3.8s		
NEIC	VI	01 08 18 20.4–1.7	35.33N	140.56E	24–12	4.5b,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ60.00000°,λ153.00000°. NP2:ϕ_s30.00000°,δ67.00000°,λ33.00000°. $M_0$9.60000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.0km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.7km az=138.5.
MOS Error ellipse: s-maj=9.9km s-min=6.0km az=114.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=5.2km az=128.0. Recorded [3 JMA] in Chiba.

ISC	**VI**	**01 08 21 52.2–2.3**	**39.05N–.06**	**142.3E–.10**	**26–13**	**3.9b**	**19**	**1-59**
IDC	VI	01 08 21 45.7–2.5	39.23N	142.98E	0	3.9,3.8		¶17204875
ISCJB	VI	01 08 21 51.4–1.6	39.09N–.05	142.4E–.10	31–7	3.8b,3.8		
JMA	VI	01 08 21 52.9–.10	39.12N	142.35E	35–1	3.4,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=68.0km s-min=28.4km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=9.1km az=7.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**01 10 33 56.6–1.7**	**38.06N–.04**	**141.88E–.09**	**18–8**		**30**	**1-58**
IDC	VI	01 10 33 52.2–2.4	38.17N	142.24E	0	3.6,3.5b		¶17204880
JMA	VI	01 10 34 00.4–.10	38.04N	141.71E	48–1	3.4,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=36.0km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**01 10 52 10.3–2.3**	**39.04N–.05**	**142.4E–.10**	**24–16**	**3.5b**	**19**	**1-63**
IDC	VI	01 10 52 07.6–1.6	38.67N	142.95E	0	3.5,3.3b		¶17204883
ISCJB	VI	01 10 52 08.8–1.3	38.99N–.05	142.46E–.09	24–8	3.4b,3.3b		
JMA	VI	01 10 52 10.7–.10	39.06N	142.38E	31–1	3.2,3.3b		

ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=29.3km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.9km az=176.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**01 11 33 35.1–1.8**	**38.93N–.05**	**142.38E–.06**	**12–10**	**3.8b**	**36**	**1-88**
NIED	VI	01 11 33 00	38.90N	142.50E	29	3.7W		¶17204887
JMA	VI	01 11 33 36.9–.10	38.93N	142.41E	36–2	4.0		
IDC	VI	01 11 33 41.6–3.1	38.84N	142.37E	70–29	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ16.00000°,λ-119.00000°. NP2:ϕ_s174.00000°,δ76.00000°,λ-82.00000°. $M_0$4.60000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=14.9km az=103.0.

ISC	**VI**	**01 12 59 17.2–2.1**	**38.78N–.05**	**142.46E–.08**	**15–12**	**3.6b**	**31**	**1-73**
NIED	VI	01 12 59 00	38.80N	142.40E	35	3.8W		¶17204891
IDC	VI	01 12 59 14.1–1.0	38.71N	142.58E	0	3.7,3.6		
JMA	VI	01 12 59 18.6–.10	38.80N	142.41E	34–2	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ19.00000°,λ-8.00000°. NP2:ϕ_s216.00000°,δ87.00000°,λ-109.00000°. $M_0$5.33000×10^{14}
IDC Error ellipse: s-maj=25.3km s-min=18.1km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**VI**	**01 13 39 46.6–1.5**	**38.15N–.05**	**141.89E–.09**	**44–14**	**3.6b**	**39**	**1-146**
ISCJB	VI	01 13 39 46.2–.75	38.14N–.04	141.82E–.08	57–6	3.5b		¶17204893
IDC	VI	01 13 39 46.8–2.6	38.08N	141.92E	49–25	3.6,3.6		
JMA	VI	01 13 39 47.0–.10	38.15N	141.77E	54–1	4.0,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.3km az=21.2.
IDC Error ellipse: s-maj=24.2km s-min=16.6km az=106.0.
JMA Event type fe.

ISC	**VI**	**01 14 28 00.8–1.4**	**36.37N–.05**	**141.7E–.10**	**26**	**3.4b**	**15**	**1-60**
IDC	VI	01 14 27 56.5–2.8	36.35N	141.88E	0	3.5,3.5L		¶17204896
ISCJB	VI	01 14 27 59.2–1.0	36.29N–.05	141.74E–.09	26	3.3b,3.5L		
JMA	VI	01 14 28 02.0–.10	36.32N	141.48E	60–3	3.0,3.5L		

ISC Event type ke.
IDC Error ellipse: s-maj=79.9km s-min=24.4km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.5km az=15.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**01 14 36 39.1–1.9**	**38.27N–.05**	**141.99E–.09**	**30–12**		**25**	**1-62**
IDC	VI	01 14 36 34.5–1.9	38.06N	142.45E	0	3.6,3.5b		¶17204897
JMA	VI	01 14 36 40.0–.10	38.29N	141.90E	47–1	3.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=33.0km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**01 14 42 09.5–1.1**	**35.39N–.06**	**140.47E–.08**	**45**	**3.4b**	**14**	**0-59**
IDC	VI	01 14 42 08.0–2.8	35.40N	140.78E	42–25	3.5,3.5		¶17204898
ISCJB	VI	01 14 42 09.6–.96	35.40N–.06	140.5E–.10	45	3.4b,3.5		
JMA	VI	01 14 42 09.9–.20	35.42N	140.40E	50–3	2.9,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=47.6km s-min=21.1km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=14.1km s-min=8.2km az=157.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**VI**	**01 16 08 27.4**	**36.95N**	**140.61E**	**8–1**	**2.7**		
								¶600627982

ISC	**VI**	**01 16 59 44.3–2.3**	**35.77N–.06**	**141.49E–.08**	**3–14**	**3.5b**	**17**	**1-147**
ISCJB	VI	01 16 59 44.5–2.2	35.78N–.06	141.6E–.10	21–12	3.5s,3.4b		¶17204909
IDC	VI	01 16 59 46.0–1.6	35.35N	141.00E	0	3.4,3.3b		
JMA	VI	01 16 59 46.1–.20	35.78N	141.46E	13–3	3.1,3.3b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=9.5km az=162.8.
IDC Error ellipse: s-maj=53.8km s-min=26.1km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**01 17 09 17.7–1.2**	**34.03N–.04**	**140.05E–.07**	**79–11**		**19**	**1-58**
ISCJB	VI	01 17 09 16.2–.70	34.03N–.04	140.04E–.10	95–7	3.3b		¶17204910
JMA	VI	01 17 09 17.2–.20	34.04N	140.08E	81–2	2.9		
IDC	VI	01 17 09 17.3–4.3	33.49N	138.58E	48–82	3.4,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=6.6km az=166.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=108.7km s-min=18.5km az=46.0.

ISC	**VI**	**01 18 37 00.0–1.0**	**39.69N–.03**	**142.32E–.06**	**44–8**	**4.5b,3.6s**	**114**	**0-145**

BJI VI 01 18 36 58.0 40.00N 142.30E 30 4.8b,4.6b ¶600628059
ISCJB VI 01 18 36 58.8–.53 39.74N–.03 142.33E–.06 50–3 4.5b,3.5s
NIED VI 01 18 37 00 39.70N 142.20E 47 4.4W,3.5s
JMA VI 01 18 37 00.0 39.73N 142.25E 44–1 4.3,3.5s
NEIC VI 01 18 37 01.6–.58 39.75N 142.24E 61–4 4.7b,3.5s
IDC VI 01 18 37 01.9–1.9 39.72N 142.22E 62–16 4.4,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=15.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ78.00000°. NP2:ϕ_s21.00000°,δ72.00000°,λ94.00000°. $M_0$4.26000×10^{15}
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.3km az=120.0. Recorded [2 JMA] in Aomori and Iwate.
IDC Error ellipse: s-maj=14.4km s-min=10.5km az=107.0.
ISC VI 01 19 03 35.3–1.2 35.75N–.07 141.85E–.08 22 3.5b 15 1-60
ISCJB VI 01 19 03 32.5–.95 35.75N–.06 142.08E–.08 22 3.4b ¶17204917
IDC VI 01 19 03 32.0–1.7 35.69N 141.99E 0 3.5,3.3
JMA VI 01 19 03 35.4–.30 35.75N 141.83E 34–4 3.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.2km az=158.1.
IDC Error ellipse: s-maj=44.0km s-min=23.0km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 01 20 01 27.2–.71 35.51N–.05 141.09E–.07 33 3.6b 27 0-70
ISCJB VI 01 20 01 25.1–.59 35.55N–.04 141.27E–.07 33 3.6b ¶17204920
JMA VI 01 20 01 27.1–.10 35.55N 141.01E 37–1 3.3
IDC VI 01 20 01 30.4–2.6 35.48N 140.93E 59–23 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.1km az=178.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=12.4km az=85.0.
ISC VI 01 20 27 12.3–.95 35.55N–.05 141.21E–.07 33 3.6b 26 0-59
ISCJB VI 01 20 27 10.0–.66 35.59N–.04 141.39E–.07 33 3.6b ¶600628102
IDC VI 01 20 27 12.9–3.1 35.55N 141.32E 38–25 3.7,3.6
JMA VI 01 20 27 13.4–.10 35.55N 141.03E 37–1 3.3,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.5km az=175.5.
IDC Error ellipse: s-maj=39.0km s-min=16.0km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 01 20 33 27.3–1.7 40.41N–.05 142.41E–.08 28–11 4.1b 34 1-132
NIED VI 01 20 33 00 40.40N 142.30E 50 3.8W ¶16722586
JMA VI 01 20 33 29.3–.10 40.38N 142.27E 40–1 4.1
IDC VI 01 20 33 30.7–2.2 40.33N 142.33E 64–18 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ20.00000°,λ94.00000°. NP2:ϕ_s17.00000°,δ70.00000°,λ89.00000°. $M_0$5.48000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=29.8km s-min=12.7km az=88.0.
JMA VI 01 21 25 40.7–.10 38.01N 141.85E 48–1 3.5
NIED VI 01 21 25 00 38.00N 141.80E 56 3.5W ¶600628126
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ50.00000°,λ141.00000°. NP2:ϕ_s165.00000°,δ61.00000°,λ47.00000°. $M_0$2.33000×10^{14}
ISC VI 01 22 06 41.9–1.2 40.37N–.04 142.12E–.09 49–9 4.0b,3.2s 32 0-80
NIED VI 01 22 06 00 40.40N 142.30E 47 3.9W,3.2s ¶17204925
ISCJB VI 01 22 06 40.2–.91 40.39N–.04 142.2E–.10 57–6 3.9b,3.3s
JMA VI 01 22 06 41.0–.10 40.37N 142.26E 40–1 4.1,3.3s
IDC VI 01 22 06 42.9–2.7 40.41N 142.38E 70–21 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ22.00000°,λ93.00000°. NP2:ϕ_s20.00000°,δ68.00000°,λ89.00000°. $M_0$8.41000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.2km s-min=7.2km az=176.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=16.4km az=88.0.
JMA VI 01 22 17 05.6–.10 38.70N 142.24E 38–1 3.7
NIED VI 01 22 17 00 38.70N 142.30E 53 3.6W ¶600628153
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ18.00000°,λ110.00000°. NP2:ϕ_s351.00000°,δ73.00000°,λ84.00000°. $M_0$2.38000×10^{14}
ISC VI 02 00 29 43.9–.79 38.23N–.04 141.95E–.07 63–6 3.9b 47 1-146
NIED VI 02 00 29 00 38.30N 141.90E 62 3.9W ¶17204927
ISCJB VI 02 00 29 42.9–.71 38.25N–.04 141.92E–.08 68–5 3.8b
JMA VI 02 00 29 44.0–.10 38.27N 141.88E 64–1 3.9
IDC VI 02 00 29 45.3–2.5 38.20N 141.89E 77–23 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ44.00000°,λ95.00000°. NP2:ϕ_s351.00000°,δ46.00000°,λ85.00000°. $M_0$7.91000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.3km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.4km s-min=14.2km az=82.0.
ISC VI 02 01 28 18.3–1.1 36.94N–.04 140.76E–.07 20–4 18 0-57
NIED VI 02 01 28 00 37.00N 140.70E 23 3.5W ¶17204932
ISCJB VI 02 01 28 17.9–.91 36.92N–.04 140.84E–.08 17–8 3.9b
JMA VI 02 01 28 18.8 36.96N 140.70E 17–1 3.9
IDC VI 02 01 28 18.1–4.2 36.56N 140.80E 0 3.9,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ51.00000°,λ-179.00000°. NP2:ϕ_s197.00000°,δ89.00000°,λ-39.00000°. $M_0$1.99000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=5.4km az=19.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s201.00000°,δ75.00000°,λ-32.00000°. NP2:ϕ_s300.00000°,δ59.00000°,λ-163.00000°. Principal axes: T Plg11.0000°,Azm253.0000°; N Plg55.0000°,Azm359.0000°; P Plg33.0000°,Azm156.0000°
IDC Error ellipse: s-maj=81.4km s-min=28.6km az=29.0.
JMA VI 02 02 03 55.7–.10 38.76N 142.18E 37–2 3.5
NIED VI 02 02 03 00 38.80N 142.20E 71 4.4W ¶600628241
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ51.00000°,λ-140.00000°. NP2:ϕ_s347.00000°,δ60.00000°,λ-47.00000°. $M_0$4.16000×10^{15}
ISC VI 02 02 15 37.0–1.1 38.14N–.05 141.89E–.08 49–9 4.1b 51 1-146
NIED VI 02 02 15 00 38.20N 141.80E 50 4.1W ¶16722590
ISCJB VI 02 02 15 36.8–.70 38.17N–.04 141.80E–.08 61–5 4.0b
JMA VI 02 02 15 37.7–.10 38.17N 141.76E 55–1 4.0
IDC VI 02 02 15 39.8–2.3 38.14N 141.68E 74–21 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ27.00000°,λ98.00000°. NP2:ϕ_s180.00000°,δ63.00000°,λ86.00000°. $M_0$1.68000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.4km az=24.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=18.2km s-min=13.7km az=90.0.
JMA VI 02 03 18 30.1–.10 38.34N 141.89E 63–1 3.5
NIED VI 02 03 18 00 38.30N 142.00E 68 4.3W ¶600628283
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ36.00000°,λ137.00000°. NP2:ϕ_s162.00000°,δ66.00000°,λ62.00000°. $M_0$3.07000×10^{15}
JMA VI 02 03 28 22.9–.10 38.67N 142.11E 34–1 3.7
¶600628290
JMA VI 02 03 50 37.5–.10 35.75N 140.92E 12–1 2.2
¶600628305
ISC VI 02 05 47 52.5–.81 36.82N–.03 140.60E–.05 12–5 4.3b 89 0-147
NIED VI 02 05 47 00 36.80N 140.70E 5 4.0W ¶16577370
BJI VI 02 05 47 51.9 36.62N 140.77E 36 4.6b,4.4b
ISCJB VI 02 05 47 51.9–.51 36.83N–.02 140.68E–.04 19–3 4.2b,3.4s
JMA VI 02 05 47 52.5 36.83N 140.59E 7–1 4.2,3.4s
NEIC VI 02 05 47 57.1–.56 36.84N 140.47E 45–5 4.6b,3.4s
IDC VI 02 05 47 58.5–2.1 36.79N 140.45E 62–19 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ43.00000°,λ-111.00000°. NP2:ϕ_s220.00000°,δ50.00000°,λ-72.00000°. $M_0$1.14000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.6km az=31.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s233.00000°,δ57.00000°,λ-77.00000°. NP2:ϕ_s29.00000°,δ35.00000°,λ-110.00000°. Principal axes: T Plg11.0000°,Azm313.0000°; N Plg11.0000°,Azm45.0000°; P Plg74.0000°,Azm179.0000°
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=5.1km az=137.0. Recorded [2 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=15.8km s-min=13.9km az=47.0.
ISC VI 02 08 49 58.2–1.6 35.85N–.07 142.0E–.10 23 3.6b 19 1-56
IDC VI 02 08 49 54.9–2.6 35.76N 142.24E 0 3.6,3.6 ¶17204973
ISCJB VI 02 08 49 56.3–1.1 35.81N–.06 142.13E–.09 23 3.6b,2.9s
JMA VI 02 08 49 56.6–.20 35.86N 142.14E 63–5 3.1,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=60.7km s-min=27.4km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.8km az=161.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 02 11 22 38.0–.82 39.11N–.04 142.22E–.06 29–5 3.8b 34 0-88
NIED VI 02 11 22 00 39.10N 142.50E 32 3.7W ¶17204992
ISCJB VI 02 11 22 35.0–1.3 39.08N–.04 142.46E–.08 27–6 3.7b,2.9s
JMA VI 02 11 22 35.9–.10 39.13N 142.42E 32–1 3.9,2.9s
IDC VI 02 11 22 37.3–.90 38.97N 142.30E 35–7 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ24.00000°,λ-132.00000°. NP2:ϕ_s180.00000°,δ72.00000°,λ-74.00000°. $M_0$4.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=6.0km az=11.0.
JMA Event type fe.
IDC Error ellipse: s-maj=29.7km s-min=20.0km az=99.0.
ISC VI 02 11 26 42.9–1.1 39.07N–.04 142.35E–.08 21–4 3.9b 31 1-63
NIED VI 02 11 26 00 39.10N 142.50E 32 3.5W ¶17204994
IDC VI 02 11 26 39.4–2.1 38.92N 142.13E 0 3.8,3.8b
ISCJB VI 02 11 26 41.7–1.3 39.10N–.04 142.47E–.08 26–6 3.8b,3.8b
JMA VI 02 11 26 43.0–.10 39.13N 142.40E 34–1 3.9,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ13.00000°,λ-116.00000°. NP2:ϕ_s191.00000°,δ78.00000°,λ-84.00000°. $M_0$1.87000×10^{14}
IDC Error ellipse: s-maj=58.8km s-min=24.8km az=81.0.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.1km az=9.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 02 12 26 45.5–.10 38.45N 142.24E 28–2 3.6
NIED VI 02 12 26 00 38.40N 142.20E 35 3.6W ¶600628668
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ39.00000°,λ-103.00000°. NP2:ϕ_s171.00000°,δ52.00000°,λ-79.00000°. $M_0$2.46000×10^{14}
IDC VI 02 14 00 31.2–3.6 39.09N 142.38E 60–32 3.3,3.2
¶17205002
IDC Error ellipse: s-maj=49.6km s-min=26.6km az=88.0.
ISC VI 02 14 28 06.6–.75 35.64N–.04 140.22E–.05 65–7 3.8b 39 0-79
NIED VI 02 14 28 00 35.70N 140.20E 62 4.1W ¶17205003
ISCJB VI 02 14 28 05.5–.41 35.62N–.03 140.19E–.06 71–3 3.8b
IDC VI 02 14 28 05.8–1.6 35.58N 140.25E 57–15 3.9,3.8
JMA VI 02 14 28 05.7–.20 35.65N 140.18E 69–2 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ99.00000°. NP2:ϕ_s4.00000°,δ68.00000°,λ86.00000°. $M_0$1.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.4km az=161.0.
IDC Error ellipse: s-maj=21.3km s-min=9.7km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s197.00000°,δ88.00000°,λ-90.00000°. NP2: ϕ_s17.00000°,δ2.00000°,λ-90.00000°. Principal axes: T Plg43.0000°,Azm287.0000°; N Plg0.0000°,Azm17.0000°; P Plg47.0000°,Azm107.0000°
JMA VI 02 15 05 54.8 37.28N 141.11E 22–1 2.0
¶600628778
ISC VI 02 15 33 53.6–2.3 38.87N–.05 142.49E–.10 26–13 3.5b 26 1-63
NIED VI 02 15 33 00 38.90N 142.40E 32 3.5W ¶17205007
IDC VI 02 15 33 46.9–2.7 39.24N 142.94E 0 3.6,3.4
ISCJB VI 02 15 33 52.9–1.3 38.85N–.04 142.51E–.08 23–7 3.5b,3.4
JMA VI 02 15 33 54.7–.10 38.90N 142.42E 35–2 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ15.00000°,λ-50.00000°. NP2:ϕ_s197.00000°,δ79.00000°,λ-99.00000°. $M_0$2.03000×10^{14}
IDC Error ellipse: s-maj=68.3km s-min=35.4km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.6km az=14.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 02 15 59 10.7–.10 38.26N 142.11E 41–1 3.6
¶600628829
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 02 16 14 57.0–1.6 38.41N–.05 141.9E–.10 53–11 3.6b 25 0-58
NIED VI 02 16 14 00 38.40N 141.80E 53 3.7W ¶17205009
ISCJB VI 02 16 14 56.5–.99 38.42N–.04 141.86E–.10 61–7 3.5b
JMA VI 02 16 14 57.6–.10 38.43N 141.82E 57–1 3.8
IDC VI 02 16 15 01.3–1.8 39.18N 140.37E 0 3.6b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ59.00000°,λ177.00000°. NP2:ϕ_s9.00000°,δ87.00000°,λ31.00000°. $M_0$4.62000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=5.9km az=19.7.
JMA Event type fe.
IDC Error ellipse: s-maj=48.0km s-min=25.3km az=89.0.
JMA VI 02 18 52 25.1 36.64N 140.67E 42–1 2.5
¶600628960
ISC VI 02 19 43 55.0–3.7 37.27N–.04 141.93E–.07 15–23 3.6b 30 1-57
NIED VI 02 19 43 00 37.30N 141.90E 32 3.6W ¶17205019
JMA VI 02 19 43 56.6–.20 37.27N 141.86E 27–3 3.7
IDC VI 02 19 43 58.8–2.3 37.21N 141.86E 42–24 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ27.00000°,λ-114.00000°. NP2:ϕ_s102.00000°,δ66.00000°,λ-78.00000°. $M_0$2.41000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.7km s-min=14.6km az=100.0.
JMA VI 02 20 24 53.9–.10 36.70N 141.02E 42–1 1.5
¶16722595
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 02 22 15 54.2–2.8 39.10N–.04 142.44E–.08 18–16 4.0b 36 1-88
NIED VI 02 22 15 00 39.10N 142.40E 38 4.0W ¶17205033
JMA VI 02 22 15 55.9–.10 39.13N 142.41E 34–1 4.3
IDC VI 02 22 16 00.7–2.5 39.02N 142.33E 70–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ26.00000°,λ-128.00000°. NP2:ϕ_s191.00000°,δ70.00000°,λ-73.00000°. $M_0$1.11000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.7km s-min=15.5km az=95.0.
ISC VI 02 23 33 49.3–1.8 40.41N–.05 142.2E–.10 33–5 3.5b 16 1-60
NIED VI 02 23 33 00 40.40N 142.30E 56 3.6W ¶17205042
ISCJB VI 02 23 33 48.8–1.1 40.39N–.06 142.2E–.10 52–9 3.5b
JMA VI 02 23 33 48.9–.10 40.38N 142.27E 40–1 3.9
IDC VI 02 23 33 51.2–1.7 40.87N 141.01E 0 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ24.00000°,λ154.00000°. NP2:ϕ_s355.00000°,δ80.00000°,λ69.00000°. $M_0$2.39000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=10.0km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=47.2km s-min=24.9km az=88.0.
ISC VI 02 23 38 04.8–2.2 39.07N–.05 142.41E–.08 13–11 3.7b 24 1-59
NIED VI 02 23 38 00 39.00N 142.40E 26 3.5W ¶17205045
ISCJB VI 02 23 38 04.8–1.3 39.04N–.04 142.45E–.08 21–7 3.5b
JMA VI 02 23 38 06.1–.10 39.06N 142.39E 32–1 3.9
IDC VI 02 23 38 11.7–3.0 38.94N 142.29E 72–28 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ21.00000°,λ-117.00000°. NP2:ϕ_s168.00000°,δ71.00000°,λ-80.00000°. $M_0$2.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.6km az=19.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=32.2km s-min=21.3km az=105.0.
ISC VI 03 01 33 26.8–.51 35.92N–.04 140.24E–.04 62–4 4.8b 335 0-153
NIED VI 03 01 33 00 36.00N 140.20E 62 4.7W ¶603243986
BJI VI 03 01 33 22.3 35.73N 140.51E 54 5.2b,4.8b

MOS VI 03 01 33 24.9–.99 35.96N 140.20E 57 5.0b,4.8b
ISCJB VI 03 01 33 26.2–.33 35.90N–.02 140.17E–.03 70–2 4.7b,4.8b
NEIC VI 03 01 33 26.5–.50 35.91N 140.16E 56–4 4.8b,4.8b
JMA VI 03 01 33 27.7–.10 35.98N 140.16E 62–1 4.5,4.8b
IDC VI 03 01 33 28.4–1.4 35.89N 140.08E 77–11 4.5,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ26.00000°,λ73.00000°. NP2:ϕ_s354.00000°,δ65.00000°,λ98.00000°. $M_0$1.09000×10^{16}
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=113.4.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.7km az=176.2.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.5km az=112.0. Felt [II] at Tokyo. Also felt at Chiba, Fujisawa, Mitaka and Sagamihara. Recorded [3 JMA] in Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s166.00000°,δ87.00000°,λ-91.00000°. NP2: ϕ_s12.00000°,δ3.00000°,λ-64.00000°. Principal axes: T Plg42.0000°,Azm257.0000° ; N Plg1.0000°,Azm166.0000°; P Plg48.0000°,Azm74.0000°
IDC Error ellipse: s-maj=12.7km s-min=10.3km az=72.0.
ISC VI 03 03 35 02.9–1.8 38.81N–.06 142.0E–.10 44–12 17 0-59
IDC VI 03 03 34 54.2–3.1 39.32N 142.37E 0 3.6,3.5b **¶600629334**
ISCJB VI 03 03 35 02.4–1.4 38.77N–.06 142.0E–.10 44–14 3.4b,3.5b
JMA VI 03 03 35 02.0–.10 38.77N 142.02E 46–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=71.7km s-min=38.8km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=9.4km az=13.2.
ISC VI 03 04 15 22.6–1.3 36.39N–.04 141.04E–.07 26–11 3.3b 23 0-56
ISCJB VI 03 04 15 22.9–.80 36.36N–.04 141.05E–.07 42–8 3.2b **¶17205055**
JMA VI 03 04 15 23.5–.10 36.36N 141.00E 43–1 3.4
IDC VI 03 04 15 27.7–7.3 36.20N 140.80E 63–55 3.3,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.2km az=10.1.
IDC Error ellipse: s-maj=66.8km s-min=28.7km az=60.0.
ISC VI 03 05 24 31.5–2.8 39.23N–.07 142.94E–.09 23–18 3.8b 31 1-73
NIED VI 03 05 24 00 39.10N 143.10E 20 3.9W **¶17205061**
JMA VI 03 05 24 28.5–.10 39.09N 143.05E 14–2 3.7
ISCJB VI 03 05 24 30.7–1.2 39.14N–.05 143.05E–.09 35–10 3.7b
IDC VI 03 05 24 35.3–2.6 39.39N 142.86E 49–24 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ15.00000°,λ44.00000°. NP2:ϕ_s30.00000°,δ80.00000°,λ101.00000°. $M_0$7.56000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.6km az=18.5.
IDC Error ellipse: s-maj=25.6km s-min=16.6km az=92.0.
ISC VI 03 05 31 15.3–1.2 35.55N–.05 141.10E–.07 31–7 4.1b 44 0-80
NIED VI 03 05 31 00 35.60N 141.10E 47 4.2W **¶16640729**
ISCJB VI 03 05 31 14.0–.66 35.55N–.03 141.17E–.07 39–5 4.0b,3.2s
JMA VI 03 05 31 15.1–.10 35.56N 141.06E 36–1 3.5,3.2s
IDC VI 03 05 31 16.4–2.2 35.49N 141.09E 43–19 4.0,3.9
NEIC VI 03 05 31 16.0–.71 35.49N 141.12E 40–6 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ24.00000°,λ96.00000°. NP2:ϕ_s18.00000°,δ66.00000°,λ87.00000°. $M_0$2.02000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.2km az=11.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=25.9km s-min=13.4km az=88.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.8km az=98.0.
ISC VI 03 06 52 11.9–2.0 37.45N–.05 141.62E–.08 12–10 23 1-57
IDC VI 03 06 52 09.5–3.0 37.54N 141.82E 0 3.3b,3.3 **¶17205067**
ISCJB VI 03 06 52 12.5–1.2 37.41N–.04 141.61E–.07 19–6 3.2b,2.7s
JMA VI 03 06 52 14.3–.10 37.41N 141.49E 30–2 3.4,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=66.8km s-min=36.9km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.2km az=22.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 03 07 07 16.4–1.9 37.03N–.06 141.26E–.07 10–11 3.5b 22 0-61
NIED VI 03 07 07 00 36.90N 141.20E 14 3.5W **¶17205070**
IDC VI 03 07 07 14.9–1.2 36.93N 141.28E 0 3.6,3.5b
ISCJB VI 03 07 07 16.4–1.1 36.99N–.05 141.32E–.07 22–6 3.5b,3.5b
JMA VI 03 07 07 18.2–.10 37.00N 141.18E 30–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ40.00000°,λ-111.00000°. NP2:ϕ_s64.00000°,δ53.00000°,λ-73.00000°. $M_0$2.23000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=26.9km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=7.3km az=29.4.
JMA Event type fe.
ISC VI 03 10 47 18.8–1.9 38.99N–.04 142.39E–.07 9–10 3.5b 27 1-59
NIED VI 03 10 47 00 39.00N 142.40E 17 3.3W **¶17205089**
ISCJB VI 03 10 47 19.2–1.2 38.96N–.04 142.46E–.07 22–6 3.5b
JMA VI 03 10 47 20.5–.10 39.01N 142.41E 30–2 3.5
IDC VI 03 10 47 25.1–4.9 38.89N 142.38E 63–46 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ12.00000°,λ-172.00000°. NP2:ϕ_s180.00000°,δ88.00000°,λ-78.00000°. $M_0$1.15000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.4km az=17.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=40.1km s-min=26.6km az=112.0.
ISC VI 03 12 44 39.2–.56 37.25N–.04 141.48E–.05 30–3 4.2b 83 0-152
NIED VI 03 12 44 00 37.30N 141.50E 14 3.9W **¶16722600**
JMA VI 03 12 44 38.7–.10 37.28N 141.47E 36–2 4.2
IDC VI 03 12 44 39.5–.49 37.24N 141.40E 30–3 4.1,4.0
NEIC VI 03 12 44 39.9–1.7 37.24N 141.51E 35–12 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ21.00000°,λ-85.00000°. NP2:ϕ_s50.00000°,δ69.00000°,λ-92.00000°. $M_0$8.52000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=10.4km az=96.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.6km az=106.0. Recorded [2 JMA] in Fukushima and Miyagi.
ISC VI 03 12 56 18.7–1.9 38.94N–.04 142.44E–.07 15–10 3.5b 28 1-63
NIED VI 03 12 56 00 38.90N 142.50E 23 3.5W **¶17205099**
ISCJB VI 03 12 56 17.2–1.1 38.90N–.04 142.54E–.06 17–7 3.5b
JMA VI 03 12 56 18.6–.10 38.93N 142.46E 27–2 3.7
IDC VI 03 12 56 22.2–3.0 38.87N 142.45E 47–31 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ40.00000°,λ-103.00000°. NP2:ϕ_s160.00000°,δ51.00000°,λ-79.00000°. $M_0$1.70000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.1km az=24.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=38.7km s-min=20.9km az=105.0.
ISC VI 03 16 00 15.3–.27 37.04N–.02 141.08E–.03 22–2 5.7b,5.0s 1640 0-165
NIED VI 03 16 00 00 37.00N 141.20E 11 5.4W,5.0s **¶602918555**
BJI VI 03 16 00 10.3 36.89N 141.40E 25 5.5s,5.4b
GCMT VI 03 16 00 13.9–.10 37.03N 141.18E 18–0 5.4W,5.4b
JMA VI 03 16 00 14.1–.10 36.99N 141.21E 30–1 5.5,5.4b
MOS VI 03 16 00 14.0–.94 37.11N 141.07E 24 5.8b,5.4s
NEIC VI 03 16 00 15.0–.09 37.07N 140.91E 17 5.7b,5.5W
ISCJB VI 03 16 00 15.5–.37 37.03N–.01 141.06E–.02 31–2 5.6b,5.0s
NEIC VI 03 16 00 16.0–.00 36.87N 141.15E 24 5.6b,5.0s
IDC VI 03 16 00 17.2–2.0 37.01N 141.01E 33–14 5.4,5.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ34.00000°,λ-73.00000°. NP2:ϕ_s47.00000°,δ57.00000°,λ-101.00000°. $M_0$1.31000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c184; s120,c271;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.46±.03 $M_{\theta\theta}$1.03±.02; $M_{\phi\phi}$0.43±.02; $M_{r\theta}$-0.53±.04; $M_{\theta\phi}$0.85±.01; $M_{\phi r}$0.08±.04; Best double couple: NP1:ϕ_s69.00000° ,δ54.00000°,λ-72.00000°. NP2:ϕ_s220.00000°,δ40.00000°,λ-113.00000°. Principal axes: T 1.6840,Plg7.0000°,Azm146.0000°; N -0.0780,Plg14.0000°,Azm238.0000° ; P -1.6030,Plg74.0000°,Azm30.0000° $M_0$1.64400×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=99.7.

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=143.0. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [5L JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s36 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.29 $M_{\theta\theta}$1.00 $M_{\phi\phi}$0.29 $M_{r\theta}$-0.64 $M_{\theta\phi}$1.06 $M_{\phi r}$-0.54 Best double couple: NP1:ϕ_s51.00000°,δ59.00000°,λ-94.00000°. NP2: ϕ_s239.00000°,δ31.00000°,λ-83.00000°. Principal axes: T 1.9700,Plg14.0000°,Azm144.0000° ; N -0.4700,Plg3.0000°,Azm53.0000°; P -1.5100,Plg75.0000°,Azm310.0000° $M_0$1.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=147.5.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.20 $M_{\theta\theta}$0.60 $M_{\phi\phi}$0.60 $M_{r\theta}$-1.00 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.30 Best double couple: NP1:ϕ_s63.00000° ,δ66.00000°,λ-76.00000°. NP2:ϕ_s212.00000°,δ27.00000°,λ-118.00000°. Principal axes: T 1.4000,Plg20.0000°,Azm143.0000°; N 0.2000,Plg12.0000°,Azm238.0000° ; P -1.7000,Plg65.0000°,Azm357.0000° $M_0$2.00000×10^{17}
IDC Error ellipse: s-maj=11.9km s-min=8.6km az=96.0.
ISC VI 03 16 05 51.4–1.8 37.41N–.05 141.81E–.08 25–13 23 1-57
IDC VI 03 16 05 45.4–2.9 37.67N 142.27E 0 4.1,4.1 **¶17205107**
JMA VI 03 16 05 53.7–.20 37.41N 141.70E 38–3 3.7,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=32.8km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 03 19 41 46.2–.10 37.62N 141.63E 44–2 3.0 ¶603482748
ISC VI 03 20 51 32.9–2.2 36.39N–.04 141.67E–.09 5–12 3.5b 19 1-56
ISCJB VI 03 20 51 31.5–1.9 36.38N–.04 141.80E–.09 10–13 3.3b **¶17205122**
JMA VI 03 20 51 31.2–.20 36.39N 141.85E 17–3 3.0
IDC VI 03 20 51 32.9–2.2 36.58N 141.73E 0 3.6,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.5km az=164.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=50.2km s-min=30.2km az=50.0.
ISC VI 03 21 16 49.9–2.0 36.62N–.04 141.19E–.10 28–12 3.5b 18 0-57
NIED VI 03 21 16 00 36.60N 141.10E 44 3.6W **¶600630583**
IDC VI 03 21 16 43.6–2.7 36.77N 141.64E 0 3.7,3.6
ISCJB VI 03 21 16 50.3–1.0 36.58N–.04 141.17E–.10 44–10 3.4b,3.6
JMA VI 03 21 16 51.2–.10 36.59N 141.09E 45–1 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ37.00000°,λ-6.00000°. NP2:ϕ_s233.00000°,δ87.00000°,λ-127.00000°. $M_0$2.53000×10^{14}
IDC Error ellipse: s-maj=60.6km s-min=27.8km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.1km az=4.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 03 21 38 19.9–.55 39.94N–.05 142.95E–.06 12 4.1b,3.4s 50 1-144
NIED VI 03 21 38 00 40.00N 142.80E 26 4.0W,3.4s **¶16713153**
IDC VI 03 21 38 17.9–.64 39.87N 142.89E 0 4.1,4.0
ISCJB VI 03 21 38 18.3–.46 39.93N–.05 143.10E–.06 12 4.1b,3.4s
JMA VI 03 21 38 22.8–.20 40.03N 142.84E 26–2 4.1,3.4s
NEIC VI 03 21 38 23.1–.44 39.86N 142.86E 35 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ47.00000°,λ-54.00000°. NP2:ϕ_s297.00000°,δ53.00000°,λ-122.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.4km az=151.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.5km az=119.0.
ISC VI 04 00 03 35.0–.75 37.24N–.04 141.50E–.05 35–2 4.2b,3.4s 96 1-147
ISCJB VI 04 00 03 31.0–.73 37.21N–.03 141.62E–.04 21–4 4.1b,3.3s **¶16722601**
JMA VI 04 00 03 33.7–.10 37.27N 141.48E 36–2 4.3,3.3s
MOS VI 04 00 03 33.3–1.1 37.30N 141.47E 33 4.7b,3.3s
NEIC VI 04 00 03 35.0–1.9 37.20N 141.45E 33–13 4.5b,3.3s
IDC VI 04 00 03 35.9–2.4 37.21N 141.42E 39–20 4.0,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.5km az=24.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=7.0km az=98.2.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.9km az=90.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=15.9km s-min=12.2km az=89.0.
ISC VI 04 00 40 26.6–1.9 38.37N–.04 142.22E–.06 16–10 3.7b 35 1-89
NIED VI 04 00 40 00 38.40N 142.20E 29 3.7W **¶17205140**
ISCJB VI 04 00 40 27.5–.96 38.38N–.04 142.21E–.07 34–9 3.6b,3.2s
JMA VI 04 00 40 28.0–.10 38.42N 142.16E 32–1 3.9,3.2s
IDC VI 04 00 40 30.2–2.8 38.34N 142.10E 41–25 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ46.00000°,λ-34.00000°. NP2:ϕ_s258.00000°,δ67.00000°,λ-131.00000°. $M_0$3.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=5.4km az=17.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=26.3km s-min=16.6km az=92.0.
JMA VI 04 01 22 03.6–.20 35.08N 141.29E 26 2.7 ¶600630736
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 04 01 41 07.4–2.2 36.94N–.05 141.17E–.07 2–14 3.5b 20 0-61
NIED VI 04 01 41 00 37.00N 141.20E 11 3.6W **¶17205145**
IDC VI 04 01 41 07.3–1.4 36.93N 141.25E 0 3.7,3.4
ISCJB VI 04 01 41 08.1–1.3 36.99N–.05 141.33E–.07 18–9 3.5b,3.4
JMA VI 04 01 41 10.0–.10 37.00N 141.19E 28–1 4.1,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ67.00000°,λ179.00000°. NP2:ϕ_s275.00000°,δ89.00000°,λ23.00000°. $M_0$2.40000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=26.1km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.5km az=32.7.
JMA Event type fe.
ISC VI 04 03 00 16.6–1.7 36.45N–.04 140.97E–.05 1–10 3.8b,2.9s 32 0-147
NIED VI 04 03 00 00 36.50N 140.90E 5 3.9W,2.9s **¶17205151**
IDC VI 04 03 00 16.2–.67 36.29N 141.05E 0 3.9,3.8
JMA VI 04 03 00 17.5 36.51N 140.94E 14–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ37.00000°,λ-31.00000°. NP2:ϕ_s127.00000°,δ72.00000°,λ-123.00000°. $M_0$6.77000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=15.0km az=99.0.
JMA Event type fe.
ISC VI 04 03 37 15.9–.36 38.35N–.04 141.28E–.04 78–2 4.6b 377 0-152
NIED VI 04 03 37 00 38.30N 141.30E 77 4.4W **¶16558164**
BJI VI 04 03 37 13.4 38.20N 141.29E 78 4.8b,4.7b
IDC VI 04 03 37 15.6–.41 38.37N 141.21E 74–3 4.5,4.4
JMA VI 04 03 37 15.8 38.27N 141.27E 76–1 4.4,4.4
ISCJB VI 04 03 37 15.9–.23 38.43N–.02 141.15E–.03 82–2 4.5b,4.4
MOS VI 04 03 37 15.7–.94 38.52N 141.12E 79 4.9b,4.4
NEIC VI 04 03 37 17.0–.32 38.41N 141.08E 80–3 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ46.00000°,λ140.00000°. NP2:ϕ_s162.00000°,δ63.00000°,λ52.00000°. $M_0$4.53000×10^{15}
IDC Error ellipse: s-maj=10.8km s-min=7.3km az=126.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=139.3.
MOS Error ellipse: s-maj=7.1km s-min=4.8km az=89.5.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=147.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC VI 04 06 29 41.5–1.0 38.00N–.04 141.64E–.07 58–9 3.7b 43 1-146
NIED VI 04 06 29 00 38.00N 141.60E 59 3.9W **¶17205164**
ISCJB VI 04 06 29 40.8–.55 38.00N–.03 141.59E–.07 67–4 3.6b
JMA VI 04 06 29 42.1 38.02N 141.51E 62–1 3.8
IDC VI 04 06 29 43.4–2.0 37.99N 141.55E 77–19 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ42.00000°,λ80.00000°. NP2:ϕ_s39.00000°,δ49.00000°,λ98.00000°. $M_0$7.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=4.9km az=16.9.
JMA Event type fe.
IDC Error ellipse: s-maj=19.0km s-min=16.0km az=97.0.
ISC VI 04 07 19 34.6–1.0 37.25N–.05 141.64E–.09 40–8 3.9b 29 1-74

NIED VI 04 07 19 00 37.30N 141.60E 35 3.9W ¶17205166
IDC VI 04 07 19 29.3–3.6 36.49N 142.32E 52–26 3.9,3.7
ISCJB VI 04 07 19 33.5–1.1 37.25N–.05 141.70E–.09 47–8 3.9b,3.4s
JMA VI 04 07 19 34.9–.10 37.29N 141.59E 45–2 3.7,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ19.00000°,λ69.00000°. NP2:ϕ_s47.00000°,δ72.00000°,λ97.00000°. $M_0$8.34000×10^{14}
IDC Error ellipse: s-maj=40.3km s-min=23.5km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=6.8km az=22.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 04 10 14 17.7–1.8 37.52N–.04 141.79E–.06 6–11 3.7b 32 1-146
NIED VI 04 10 14 00 37.50N 141.80E 5 3.7W ¶17205181
ISCJB VI 04 10 14 17.6–1.6 37.48N–.03 141.91E–.05 15–10 3.6b
IDC VI 04 10 14 17.4–.83 37.54N 141.72E 0 3.8,3.7
JMA VI 04 10 14 18.5–.10 37.51N 141.84E 22–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ33.00000°,λ-54.00000°. NP2:ϕ_s36.00000°,δ64.00000°,λ-111.00000°. $M_0$3.38000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=16.5.
IDC Error ellipse: s-maj=25.1km s-min=19.4km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 04 10 49 30.1–1.1 35.57N–.05 140.14E–.06 70–8 3.3b 25 0-55
ISCJB VI 04 10 49 29.2–.67 35.55N–.04 140.14E–.07 77–5 3.2b ¶17205188
JMA VI 04 10 49 29.4–.20 35.63N 140.16E 68–2 2.6
IDC VI 04 10 49 33.5–2.4 35.41N 139.65E 82–13 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.1km az=148.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=48.9km s-min=6.8km az=67.0.
ISC VI 04 12 08 44.3–1.1 35.63N–.06 140.04E–.07 50 3.5b 16 0-56
IDC VI 04 12 08 32.0–2.6 36.00N 141.14E 0 3.6L,3.5 ¶16856277
ISCJB VI 04 12 08 43.5–1.2 35.61N–.06 140.2E–.10 50 3.4b,3.5
JMA VI 04 12 08 43.8–.20 35.70N 140.12E 64–2 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=62.3km s-min=25.0km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=8.4km az=178.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 04 12 09 07.8–.47 35.18N–.04 141.44E–.07 27 4.2b 59 1-91
IDC VI 04 12 09 04.7–.57 35.24N 141.21E 0 4.3,4.2L ¶17205198
ISCJB VI 04 12 09 05.7–.39 35.24N–.03 141.52E–.06 27 4.2b,3.5s
JMA VI 04 12 09 09.1–.20 35.25N 141.28E 17–4 3.7,3.5s
NEIC VI 04 12 09 09.4–.42 35.23N 141.36E 35 4.7b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=12.3km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=7.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.3km az=97.0.
JMA VI 04 12 19 51.6–.10 38.15N 142.13E 15–1 3.5
¶600631086
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 04 12 25 15.6–1.3 35.22N–.05 141.34E–.09 27 3.9b 19 1-59
IDC VI 04 12 25 11.6–2.3 35.27N 141.44E 0 3.7b,3.7 ¶17205202
ISCJB VI 04 12 25 13.3–.97 35.21N–.04 141.51E–.08 27 3.7b,3.7
JMA VI 04 12 25 13.7–.20 35.23N 141.53E 42–3 3.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.1km s-min=22.1km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.3km az=169.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 04 12 45 53.4–.30 35.22N 141.41E 42–5 2.1
¶603731171
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC VI 04 12 46 07.1–4.5 36.28N 140.44E 0 3.6,3.3
¶17205205
IDC Error ellipse: s-maj=99.5km s-min=35.1km az=39.0.
ISC VI 04 12 55 02.4–1.4 35.27N–.06 141.5E–.10 25 3.9b 17 1-66
IDC VI 04 12 54 59.5–1.7 35.28N 141.46E 0 3.7b,3.6 ¶17205207
ISCJB VI 04 12 55 01.2–1.2 35.21N–.05 141.5E–.10 25 3.8b,3.3s
JMA VI 04 12 55 02.2–.20 35.23N 141.45E 38–3 3.0,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=45.7km s-min=22.4km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=6.5km az=164.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 04 14 01 32.4–1.0 35.26N–.05 141.40E–.08 25 4.0b 25 1-59
IDC VI 04 14 01 28.1–1.5 35.25N 141.64E 0 3.9b,3.8 ¶600631146
ISCJB VI 04 14 01 29.5–.87 35.22N–.04 141.61E–.09 25 3.8b,3.8
JMA VI 04 14 01 31.8–.30 35.24N 141.42E 40–3 3.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=40.7km s-min=16.9km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.4km az=178.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 04 16 37 54.1–1.5 39.00N–.04 142.23E–.08 30–10 3.6b 33 0-73
NIED VI 04 16 37 00 39.10N 142.10E 44 3.8W ¶17205239
ISCJB VI 04 16 37 55.0–.81 39.07N–.04 142.19E–.09 50–7 3.6b
JMA VI 04 16 37 56.1–.10 39.09N 142.14E 45–1 3.9
IDC VI 04 16 37 58.6–2.4 39.05N 142.35E 73–21 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ36.00000°,λ-168.00000°. NP2:ϕ_s173.00000°,δ83.00000°,λ-54.00000°. $M_0$5.42000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.6km az=15.3.
JMA Event type fe.
IDC Error ellipse: s-maj=25.9km s-min=14.1km az=104.0.
JMA VI 04 19 08 02.7–.10 37.19N 141.37E 49–1 3.4
NIED VI 04 19 08 00 37.20N 141.40E 5 3.9W ¶600631425
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ5.00000°,λ114.00000°. NP2:ϕ_s2.00000°,δ85.00000°,λ88.00000°. $M_0$6.79000×10^{14}
ISC VI 04 21 14 09.0–.47 35.79N–.04 141.29E–.04 48–3 4.7b,3.5s 232 0-147
NIED VI 04 21 14 00 35.90N 141.40E 35 4.4W,3.5s ¶16558746
BJI VI 04 21 14 05.9 35.70N 141.33E 43 4.7b,4.7b
MOS VI 04 21 14 06.7–.68 35.78N 141.25E 41 4.9b,4.7b
JMA VI 04 21 14 07.4–.10 35.88N 141.28E 41–1 4.4,4.7b
ISCJB VI 04 21 14 07.3–.41 35.79N–.03 141.25E–.03 46–3 4.7b,3.5s
NEIC VI 04 21 14 08.8–.42 35.77N 141.23E 44–4 4.8b,3.5s
IDC VI 04 21 14 09.3–1.9 35.80N 141.19E 49–17 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ29.00000°,λ-160.00000°. NP2:ϕ_s177.00000°,δ80.00000°,λ-62.00000°. $M_0$4.36000×10^{15}
MOS Error ellipse: s-maj=9.1km s-min=6.1km az=121.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.2km az=15.2.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=127.0. Recorded [2 JMA] in Ibaraki and Tochigi.
IDC Error ellipse: s-maj=16.0km s-min=13.0km az=94.0.
ISC VI 04 22 43 11.1–2.4 36.89N–.05 141.91E–.07 3–14 3.3b 27 1-57
IDC VI 04 22 43 10.1–1.9 36.81N 142.23E 0 3.5,3.5 ¶17205259
JMA VI 04 22 43 14.0–.30 36.97N 141.97E 39 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=20.5km az=93.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 05 00 16 56.5–3.3 36.54N–.04 140.92E–.05 3–22 3.8b 24 0-78
NIED VI 05 00 16 00 36.50N 140.90E 5 3.7W ¶17205262
ISCJB VI 05 00 16 55.6–1.2 36.49N–.04 141.08E–.05 8–7 3.7b
IDC VI 05 00 16 56.0–.98 36.52N 140.93E 0 3.8,3.7
JMA VI 05 00 16 58.3–.10 36.52N 140.93E 14–2 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ54.00000°,λ-39.00000°. NP2:ϕ_s146.00000°,δ59.00000°,λ-137.00000°. $M_0$4.28000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.6km az=138.0.
IDC Error ellipse: s-maj=22.8km s-min=18.5km az=98.0.
JMA Event type fe.
ISC VI 05 01 22 04.1–.77 35.64N–.05 140.76E–.06 50–7 3.9b,3.2s 38 0-92

NIED VI 05 01 22 00 35.70N 140.60E 50 4.3W,3.2s ¶16722607
ISCJB VI 05 01 22 02.9–.46 35.68N–.04 140.80E–.07 55–4 3.8b,3.3s
JMA VI 05 01 22 04.3–.10 35.71N 140.64E 48–1 3.5,3.3s
IDC VI 05 01 22 04.3–1.7 35.63N 140.66E 51–16 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ24.00000°,λ105.00000°. NP2:ϕ_s14.00000°,δ67.00000°,λ84.00000°. $M_0$2.67000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.1km az=167.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s7.00000°,δ79.00000°,λ86.00000°. NP2: ϕ_s209.00000°,δ12.00000°,λ111.00000°. Principal axes: T Plg56.0000°,Azm272.0000° ; N Plg4.0000°,Azm8.0000°; P Plg34.0000°,Azm101.0000°
IDC Error ellipse: s-maj=19.7km s-min=10.4km az=87.0.
ISC VI 05 02 17 02.4–2.1 37.43N–.06 141.85E–.09 26–13 3.4b 29 1-146
IDC VI 05 02 16 58.1–1.3 37.39N 141.87E 0 3.6,3.5b ¶17205271
NIED VI 05 02 17 00 37.50N 141.70E 50 3.6W,3.5b
JMA VI 05 02 17 05.7–.10 37.47N 141.67E 46–2 3.9,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=24.6km az=48.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ45.00000°,λ87.00000°. NP2:ϕ_s53.00000°,δ45.00000°,λ93.00000°. $M_0$3.19000×10^{14}
JMA Event type fe.
JMA VI 05 04 01 41.8–.10 38.46N 142.21E 28–1 3.8
NIED VI 05 04 01 00 38.50N 142.20E 29 3.8W ¶600631753
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ43.00000°,λ166.00000°. NP2:ϕ_s1.00000°,δ80.00000°,λ48.00000°. $M_0$6.24000×10^{14}
ISC VI 05 08 23 14.4–2.7 38.71N–.08 142.79E–.09 1–14 4.1b 14 1-63
JMA VI 05 08 23 12.3–.20 38.65N 142.98E 19–4 3.8 ¶17205300
IDC VI 05 08 23 13.6–1.5 38.99N 144.05E 0 4.1,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=49.3km s-min=23.8km az=80.0.
ISC VI 05 09 02 30.3–1.1 35.26N–.06 141.45E–.09 27 3.4b 17 1-59
IDC VI 05 09 02 26.2–1.1 35.20N 141.64E 0 3.5,3.4 ¶600631910
JMA VI 05 09 02 29.8–.30 35.17N 141.57E 41–3 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=30.8km s-min=19.4km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 05 09 34 46.0–.95 35.91N–.06 140.18E–.09 60 3.4b 14 0-60
ISCJB VI 05 09 34 44.8–.75 35.89N–.05 140.3E–.10 60 3.4b ¶17205307
JMA VI 05 09 34 46.9–.10 35.98N 140.15E 59–1 3.1
IDC VI 05 09 34 46.9–2.3 35.87N 140.19E 69–20 3.4,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=7.3km az=165.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.0km s-min=12.4km az=74.0.
ISC VI 05 10 46 06.0–.94 36.91N–.03 140.77E–.05 15–5 4.0s,3.8b 50 0-91
NIED VI 05 10 46 00 36.90N 140.80E 8 3.7W,3.8b ¶16640741
IDC VI 05 10 46 04.1–.79 36.99N 140.74E 0 4.0s,4.0
ISCJB VI 05 10 46 05.3–.58 36.92N–.03 140.86E–.05 22–3 4.1s,3.8b
JMA VI 05 10 46 06.3 36.92N 140.73E 14–1 3.9,3.8b
NEIC VI 05 10 46 09.7–.86 36.92N 140.66E 39–8 4.2b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ44.00000°,λ-54.00000°. NP2:ϕ_s140.00000°,δ56.00000°,λ-120.00000°. $M_0$3.83000×10^{14}
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.0km az=23.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s346.00000°,δ49.00000°,λ-84.00000°. NP2:ϕ_s157.00000°,δ41.00000°,λ-97.00000°. Principal axes: T Plg4.0000°,Azm72.0000°; N Plg5.0000°,Azm162.0000°; P Plg84.0000° ,Azm303.0000°
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=8.0km az=116.0. Recorded [2 JMA] in Fukushima and Ibaraki.
ISC VI 05 11 16 36.2–1.2 36.99N–.03 140.76E–.04 2–8 4.1b 54 0-147
NIED VI 05 11 16 00 37.10N 140.80E 8 4.2W ¶16558243
ISCJB VI 05 11 16 36.5–.54 37.04N–.03 140.83E–.04 11–3 4.0b,3.1s
JMA VI 05 11 16 37.0 37.05N 140.77E 11–1 4.4,3.1s
IDC VI 05 11 16 43.6–1.9 36.86N 140.61E 62–17 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ49.00000°,λ-131.00000°. NP2:ϕ_s239.00000°,δ56.00000°,λ-53.00000°. $M_0$2.31000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=20.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s0.00000°,δ61.00000°,λ-125.00000°. NP2:ϕ_s235.00000°,δ45.00000°,λ-44.00000°. Principal axes: T Plg9.0000°,Azm114.0000°; N Plg30.0000°,Azm19.0000°; P Plg58.0000° ,Azm219.0000°
IDC Error ellipse: s-maj=14.7km s-min=13.0km az=93.0.
ISC VI 05 11 28 38.9–1.1 38.77N–.04 141.73E–.08 68–8 31 0-62
ISCJB VI 05 11 28 37.4–.62 38.78N–.03 141.73E–.08 75–5 3.5b ¶600631993
IDC VI 05 11 28 38.0–2.4 38.72N 142.01E 63–27 3.5,3.5
JMA VI 05 11 28 39.2 38.79N 141.62E 68–1 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.2km az=15.8.
IDC Error ellipse: s-maj=44.4km s-min=11.4km az=103.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s230.00000°,δ66.00000°,λ142.00000°. NP2:ϕ_s338.00000°,δ56.00000°,λ29.00000°. Principal axes: T Plg43.0000°,Azm190.0000°; N Plg46.0000°,Azm22.0000°; P Plg6.0000° ,Azm286.0000°
ISC VI 05 14 31 43.9–1.2 37.52N–.04 141.73E–.05 20–5 3.7b 41 1-77
NIED VI 05 14 31 00 37.50N 141.70E 50 4.1W ¶17205332
ISCJB VI 05 14 31 44.4–.89 37.50N–.04 141.77E–.07 37–8 3.6b
JMA VI 05 14 31 45.2–.10 37.51N 141.70E 38–3 4.1
IDC VI 05 14 31 50.8–2.8 37.46N 141.45E 79–26 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ37.00000°,λ104.00000°. NP2:ϕ_s249.00000°,δ55.00000°,λ80.00000°. $M_0$1.80000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.5km az=17.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=16.5km az=100.0.
ISC VI 05 16 36 16.8–1.6 37.13N–.04 141.24E–.05 8–10 3.2b 27 0-57
NIED VI 05 16 36 00 37.10N 141.20E 14 3.4W ¶600632231
IDC VI 05 16 36 15.9–1.3 37.15N 141.27E 0 3.4,3.3
ISCJB VI 05 16 36 16.9–1.1 37.08N–.04 141.31E–.07 20–7 3.3b,3.3
JMA VI 05 16 36 18.9–.10 37.09N 141.15E 30–1 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s85.00000°,δ32.00000°,λ-42.00000°. NP2:ϕ_s212.00000°,δ69.00000°,λ-115.00000°. $M_0$1.35000×10^{14}
IDC Error ellipse: s-maj=27.7km s-min=19.8km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.7km az=21.1.
JMA Event type fe.
JMA VI 05 17 13 59.4–.10 35.75N 140.79E 19–1 1.1
¶17205344
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 05 20 51 33.2–2.4 36.7N–.30 140.8E–.20 24–17 3.2b 6 0-57
IDC VI 05 20 51 17.8–3.6 35.83N 142.12E 0 3.3,3.3b ¶17205358
JMA VI 05 20 51 32.0–.10 36.51N 140.86E 22–1 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=103.8km s-min=34.0km az=56.0.
ISC VI 05 21 37 47.3–2.6 38.34N–.06 142.25E–.10 4–14 3.4b 20 1-62
NIED VI 05 21 37 00 38.40N 142.20E 68 3.8W ¶17205361
IDC VI 05 21 37 44.6–2.5 38.36N 143.16E 0 3.5,3.4b
JMA VI 05 21 37 49.9–.10 38.43N 142.20E 35–1 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ64.00000°,λ165.00000°. NP2:ϕ_s101.00000°,δ77.00000°,λ27.00000°. $M_0$5.97000×10^{14}
IDC Error ellipse: s-maj=68.5km s-min=25.9km az=60.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 05 21 39 50.4–2.1 36.66N–.05 141.74E–.08 5–12 3.6b 28 1-147
NIED VI 05 21 39 00 36.70N 141.40E 26 3.7W ¶17205362
ISCJB VI 05 21 39 50.7–1.4 36.62N–.04 141.75E–.07 18–9 3.7s,3.5b

JMA VI 05 21 39 54.6–.20 36.68N 141.44E 50–3 3.6,3.5b
IDC VI 05 21 39 55.3–4.5 36.52N 141.75E 38–38 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ17.00000°,λ-167.00000°. NP2:ϕ_s190.00000°,δ86.00000°,λ-74.00000°. $M_0$3.86000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.9km az=10.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.8km s-min=18.6km az=72.0.
ISC VI 06 03 00 05.1–.36 38.28N–.04 142.18E–.04 21–3 4.5b,3.2s 161 1-146
NIED VI 06 03 00 00 38.30N 142.20E 29 4.2W,3.2s **¶16679565**
BJI VI 06 03 00 04.6 38.33N 142.15E 32 4.7b,4.5b
JMA VI 06 03 00 05.0–.10 38.32N 142.22E 40–3 4.0,4.5b
ISCJB VI 06 03 00 05.2–.48 38.30N–.03 142.22E–.04 37–4 4.6b,3.2s
IDC VI 06 03 00 06.3–.61 38.25N 142.15E 32–3 4.2,4.1
NEIC VI 06 03 00 08.4–.47 38.31N 142.17E 50–4 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ39.00000°,λ-94.00000°. NP2:ϕ_s156.00000°,δ52.00000°,λ-87.00000°. $M_0$2.40000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.7km az=39.1.
IDC Error ellipse: s-maj=13.6km s-min=12.8km az=78.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=127.0. Recorded [2 JMA] in Miyagi.
ISC VI 06 06 20 53.8–1.1 37.17N–.04 141.47E–.09 38–3 3.7b,3.0s 32 1-74
NIED VI 06 06 20 00 37.20N 141.40E 47 3.9W,3.0s **¶17205391**
ISCJB VI 06 06 20 52.2–.91 37.14N–.04 141.48E–.08 44–8 3.8b,3.0s
JMA VI 06 06 20 53.4–.10 37.19N 141.38E 49–1 3.9,3.0s
IDC VI 06 06 20 55.9–2.8 37.09N 141.25E 57–24 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ8.00000°,λ60.00000°. NP2:ϕ_s27.00000°,δ83.00000°,λ94.00000°. $M_0$7.08000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=6.2km az=5.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=31.0km s-min=12.5km az=80.0.
ISC VI 06 06 35 00.5–1.4 37.31N–.05 141.74E–.10 20–8 19 1-57
IDC VI 06 06 34 55.7–2.9 37.43N 142.06E 0 3.6,3.5 **¶17205392**
ISCJB VI 06 06 34 59.8–1.5 37.28N–.04 141.77E–.09 22–9 3.5b,3.5
NIED VI 06 06 35 00 37.30N 141.60E 68 3.6W,3.5
JMA VI 06 06 35 02.5–.10 37.31N 141.60E 45–2 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=60.8km s-min=33.4km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.0km az=14.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ27.00000°,λ110.00000°. NP2:ϕ_s10.00000°,δ65.00000°,λ80.00000°. $M_0$3.04000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 06 09 20 39.0–1.6 35.55N–.09 141.2E–.20 33 3.2b 13 0-59
IDC VI 06 09 20 32.5–3.8 35.79N 141.71E 0 3.4,3.2 **¶17205399**
ISCJB VI 06 09 20 37.4–1.4 35.61N–.09 141.3E–.10 33 3.2b,3.2
JMA VI 06 09 20 39.6–.10 35.55N 141.04E 36–1 2.7,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=111.9km s-min=27.2km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=7.5km az=142.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 06 12 36 10.4–.82 36.12N–.05 140.01E–.06 76–6 4.0b 40 0-75
NIED VI 06 12 36 00 36.20N 140.00E 71 3.9W **¶16722620**
ISCJB VI 06 12 36 09.4–.47 36.11N–.03 140.01E–.06 83–3 3.9b
IDC VI 06 12 36 10.5–1.3 36.14N 139.97E 77–11 3.9,3.7
JMA VI 06 12 36 11.1–.10 36.11N 139.99E 68–1 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ26.00000°,λ91.00000°. NP2:ϕ_s0.00000°,δ64.00000°,λ89.00000°. $M_0$8.37000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.5km az=178.7.
IDC Error ellipse: s-maj=16.5km s-min=7.9km az=69.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s0.00000°,δ61.00000°,λ87.00000°. NP2: ϕ_s186.00000°,δ29.00000°,λ96.00000°. Principal axes: T Plg74.0000°,Azm261.0000° ; N Plg3.0000°,Azm1.0000°; P Plg16.0000°,Azm92.0000°
ISC VI 06 12 46 53.3–1.0 36.11N–.04 140.01E–.06 76–8 3.5b 25 0-60
ISCJB VI 06 12 46 52.5–.64 36.10N–.04 140.02E–.07 83–5 3.5b **¶17205413**
IDC VI 06 12 46 54.5–4.2 36.04N 139.93E 85–25 3.6,3.3
JMA VI 06 12 46 54.3–.10 36.11N 139.99E 68–1 3.0,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=6.4km az=171.7.
IDC Error ellipse: s-maj=61.6km s-min=9.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 06 17 10 08.5–.69 37.26N–.04 141.88E–.05 24 3.9b 37 1-146
ISCJB VI 06 17 10 06.8–.52 37.22N–.04 141.97E–.05 24 3.9s,3.8b **¶17205422**
JMA VI 06 17 10 09.3–.20 37.28N 141.87E 39–3 4.1,3.8b
IDC VI 06 17 10 11.4–2.0 37.25N 141.84E 46–20 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=5.1km az=141.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.0km s-min=15.2km az=97.0.
ISC VI 06 18 12 31.6–.65 38.21N–.04 142.01E–.06 30 3.8b 33 1-89
NIED VI 06 18 12 00 38.20N 141.90E 32 3.7W **¶600633281**
ISCJB VI 06 18 12 30.0–.55 38.21N–.04 142.11E–.06 30 3.7b
JMA VI 06 18 12 32.8–.10 38.24N 141.94E 44–1 3.8
IDC VI 06 18 12 33.4–.75 38.19N 141.95E 47–8 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ45.00000°,λ32.00000°. NP2:ϕ_s107.00000°,δ68.00000°,λ130.00000°. $M_0$3.67000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.2km az=19.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.7km s-min=13.9km az=102.0.
ISC VI 06 20 10 27.2–.56 37.81N–.04 141.63E–.04 47–4 4.9b,3.6s 438 1-146
NIED VI 06 20 10 00 37.80N 141.60E 50 4.6W,3.6s **¶16558938**
BJI VI 06 20 10 23.3 37.70N 141.76E 44 4.9b,4.8b
MOS VI 06 20 10 25.5–.87 37.82N 141.63E 46 5.1b,4.8b
ISCJB VI 06 20 10 26.5–.40 37.80N–.02 141.59E–.04 53–2 4.8b,3.6s
JMA VI 06 20 10 27.1–.10 37.77N 141.60E 48–2 4.6,3.6s
IDC VI 06 20 10 28.5–1.8 37.80N 141.51E 57–15 4.6,4.4
NEIC VI 06 20 10 28.8–.47 37.82N 141.52E 59–4 4.9b,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ15.00000°,λ88.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ91.00000°. $M_0$8.56000×10^{15}
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=112.7.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=32.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=10.4km az=110.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.5km az=127.0. Felt at Ichinoseki. Recorded [3 JMA] in Fukushima and Miyagi.
ISC VI 06 20 34 20.4–1.2 36.36N–.05 140.89E–.08 32 14 0-56
IDC VI 06 20 34 17.1–3.0 36.43N 140.91E 0 3.2,3.1 **¶17205432**
ISCJB VI 06 20 34 19.5–.91 36.34N–.05 140.88E–.08 32 3.0b,3.1
JMA VI 06 20 34 19.1–.10 36.32N 140.91E 37–1 3.0,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=66.0km s-min=28.5km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.5km az=156.7.
JMA VI 06 20 37 15.1–.10 37.44N 141.48E 39–2 3.6
NIED VI 06 20 37 00 37.40N 141.50E 56 3.5W **¶600633340**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ62.00000°,λ-28.00000°. NP2:ϕ_s288.00000°,δ65.00000°,λ-149.00000°. $M_0$1.79000×10^{14}
ISC VI 07 04 02 31.9–1.2 40.37N–.04 142.07E–.09 53–9 3.8b 22 0-72
NIED VI 07 04 02 00 40.40N 142.10E 50 3.7W **¶17205446**
ISCJB VI 07 04 02 31.0–.82 40.38N–.04 142.10E–.10 57–7 3.9b
JMA VI 07 04 02 32.1–.10 40.35N 142.08E 50–1 3.9
IDC VI 07 04 02 33.3–3.7 40.40N 142.25E 73–20 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ37.00000°,λ163.00000°. NP2:ϕ_s335.00000°,δ80.00000°,λ54.00000°. $M_0$3.85000×10^{14}

ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.6km az=2.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=62.5km s-min=17.5km az=112.0.
ISC VI 07 07 25 58.8–1.2 36.55N–.05 141.84E–.08 19 3.9b 21 1-60
IDC VI 07 07 25 55.8–2.6 36.61N 142.11E 0 3.9,3.9L **¶17205463**
ISCJB VI 07 07 25 58.2–.91 36.49N–.04 141.90E–.07 19 3.7b,3.9L
NIED VI 07 07 26 00 36.50N 141.70E 32 3.7W,3.9L
JMA VI 07 07 26 01.6–.20 36.54N 141.70E 60–4 3.5,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=59.4km s-min=30.3km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.2km az=174.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ35.00000°,λ-67.00000°. NP2:ϕ_s304.00000°,δ58.00000°,λ-105.00000°. $M_0$3.86000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 07 08 06 48.4–.58 38.01N–.04 142.77E–.06 14 4.2b,3.4s 60 1-145
NIED VI 07 08 06 00 38.00N 142.80E 20 4.1W,3.4s **¶16640747**
ISCJB VI 07 08 06 46.8–.41 38.03N–.03 142.82E–.04 14 4.1b,3.2s
JMA VI 07 08 06 46.7–.20 38.04N 142.80E 18–2 4.3,3.2s
NEIC VI 07 08 06 51.8–1.1 38.07N 142.84E 37–9 4.5b,3.2s
IDC VI 07 08 06 51.7–3.3 38.07N 142.68E 36–27 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ53.00000°,λ-140.00000°. NP2:ϕ_s85.00000°,δ59.00000°,λ-44.00000°. $M_0$1.58000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=160.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=13.9km s-min=7.6km az=120.0. Recorded [1 JMA] in Miyagi.
IDC Error ellipse: s-maj=22.6km s-min=14.0km az=107.0.
ISC VI 07 09 22 20.6–1.0 36.91N–.03 140.65E–.06 10–8 3.6b 20 0-61
NIED VI 07 09 22 00 36.90N 140.70E 5 3.4W **¶600633776**
ISCJB VI 07 09 22 19.9–.71 36.89N–.03 140.78E–.07 14–4 3.6b
JMA VI 07 09 22 20.8 36.91N 140.66E 7–1 3.5
IDC VI 07 09 22 29.8–1.2 35.49N 137.13E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ38.00000°,λ-148.00000°. NP2:ϕ_s236.00000°,δ71.00000°,λ-56.00000°. $M_0$1.19000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.4km az=13.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s233.00000°,δ64.00000°,λ-63.00000°. NP2:ϕ_s4.00000°,δ37.00000°,λ-133.00000°. Principal axes: T Plg15.0000°,Azm304.0000°; N Plg24.0000°,Azm41.0000°; P Plg61.0000° ,Azm185.0000°
IDC Error ellipse: s-maj=30.8km s-min=20.8km az=83.0.
ISC VI 07 09 45 03.0–1.8 38.31N–.05 142.26E–.07 15–10 3.5b 31 1-74
IDC VI 07 09 45 00.3–1.1 38.40N 142.57E 0 3.6,3.5 **¶17205471**
NIED VI 07 09 45 00 38.30N 142.10E 26 3.6W,3.5
ISCJB VI 07 09 45 03.9–1.4 38.28N–.05 142.17E–.08 26–9 3.4b,3.5
JMA VI 07 09 45 05.7–.10 38.33N 142.09E 35–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=20.7km az=110.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ36.00000°,λ-8.00000°. NP2:ϕ_s234.00000°,δ85.00000°,λ-126.00000°. $M_0$2.90000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.0km az=21.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 07 10 06 40.5–1.1 35.99N–.05 141.29E–.08 26 3.4b 14 0-65
NIED VI 07 10 06 00 36.10N 141.30E 5 3.6W **¶17205476**
IDC VI 07 10 06 37.9–1.2 36.15N 141.56E 0 3.9s,3.9
ISCJB VI 07 10 06 40.4–.85 36.04N–.04 141.30E–.08 26 3.9s,3.4b
JMA VI 07 10 06 41.3–.20 36.00N 141.20E 35–2 3.8,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ8.00000°,λ-140.00000°. NP2:ϕ_s33.00000°,δ85.00000°,λ-84.00000°. $M_0$3.00000×10^{14}
IDC Error ellipse: s-maj=28.5km s-min=21.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.0km az=170.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 07 10 18 12.1–1.6 37.38N–.04 141.73E–.05 11–9 4.3b 78 1-90
NIED VI 07 10 18 00 37.40N 141.70E 8 4.1W **¶16722624**
ISCJB VI 07 10 18 12.1–.84 37.37N–.03 141.75E–.04 22–5 4.2b,3.8s
JMA VI 07 10 18 12.8–.10 37.43N 141.71E 27–2 4.2,3.8s
NEIC VI 07 10 18 16.3–.82 37.40N 141.69E 40–7 4.6b,3.8s
IDC VI 07 10 18 17.0–1.8 37.36N 141.60E 47–18 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ30.00000°,λ-150.00000°. NP2:ϕ_s258.00000°,δ76.00000°,λ-63.00000°. $M_0$1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.1km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=5.8km az=104.0. Recorded [1 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=19.1km s-min=10.7km az=88.0.
ISC VI 07 15 44 20.3–1.8 37.17N–.05 141.58E–.08 27–11 3.5b 32 1-74
NIED VI 07 15 44 00 37.20N 141.40E 41 3.6W **¶17205494**
ISCJB VI 07 15 44 20.3–.88 37.16N–.04 141.61E–.08 43–8 3.5b
IDC VI 07 15 44 21.8–2.0 37.14N 141.68E 44–17 3.7,3.5
JMA VI 07 15 44 22.9–.10 37.20N 141.38E 48–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ10.00000°,λ120.00000°. NP2:ϕ_s1.00000°,δ82.00000°,λ85.00000°. $M_0$2.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=5.2km az=18.4.
IDC Error ellipse: s-maj=18.9km s-min=11.6km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 07 17 07 53.2–2.1 37.47N–.06 141.86E–.08 6–11 3.7b 26 1-58
ISCJB VI 07 17 07 50.3–1.5 37.37N–.06 142.04E–.06 3–9 3.6b **¶17205500**
JMA VI 07 17 07 50.5–.20 37.32N 142.09E 17–3 3.3
IDC VI 07 17 07 53.2–1.7 37.57N 141.73E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.2km az=155.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=37.9km s-min=24.9km az=84.0.
ISC VI 07 18 30 41.4–1.1 38.59N–.05 142.04E–.08 46–10 3.7b 30 1-68
NIED VI 07 18 30 00 38.60N 141.90E 50 3.7W **¶17205504**
ISCJB VI 07 18 30 40.3–.93 38.59N–.04 142.0E–.10 52–8 3.6b,3.4s
IDC VI 07 18 30 42.5–2.4 38.58N 142.05E 61–23 3.7,3.5
JMA VI 07 18 30 42.1–.10 38.62N 141.91E 48–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ25.00000°,λ85.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ92.00000°. $M_0$4.45000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=5.6km az=18.1.
IDC Error ellipse: s-maj=28.6km s-min=18.0km az=105.0.
JMA Event type fe.
ISC VI 07 18 48 55.3–1.6 38.26N–.05 141.9E–.10 52–13 3.7b 27 0-62
NIED VI 07 18 48 00 38.30N 141.80E 77 3.6W **¶17205505**
IDC VI 07 18 48 45.0–2.6 38.57N 142.65E 0 3.6,3.5b
ISCJB VI 07 18 48 54.8–.96 38.26N–.04 141.9E–.10 63–8 3.5b,3.5b
JMA VI 07 18 48 56.2 38.27N 141.82E 56–1 3.7,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ37.00000°,λ104.00000°. NP2:ϕ_s322.00000°,δ54.00000°,λ79.00000°. $M_0$2.97000×10^{14}
IDC Error ellipse: s-maj=68.2km s-min=31.6km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=5.9km az=19.8.
JMA Event type fe.
JMA VI 07 21 53 18.8–.10 37.23N 141.22E 35–1 3.5
¶600634219
JMA Event type fe.
JMA VI 07 23 09 04.0–.10 37.10N 141.14E 51–1 3.6
NIED VI 07 23 09 00 37.10N 141.20E 59 3.5W **¶600634256**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ37.00000°,λ132.00000°. NP2:ϕ_s342.00000°,δ63.00000°,λ63.00000°. $M_0$2.27000×10^{14}
ISC VI 08 02 16 45.7–1.1 35.72N–.04 140.77E–.07 49–8 3.4b 20 0-56
IDC VI 08 02 16 37.4–2.9 35.92N 141.30E 0 3.5,3.4 **¶17205523**
ISCJB VI 08 02 16 44.6–.73 35.70N–.04 140.82E–.09 57–5 3.4b,3.4
JMA VI 08 02 16 45.7–.10 35.72N 140.70E 47–1 2.9,3.4

ISC Event type ke.
IDC Error ellipse: s-maj=65.0km s-min=28.1km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.7km az=171.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 08 02 33 35.9–1.7 36.77N–.04 141.08E–.08 15–9 3.5b 27 0-147
NIED VI 08 02 33 00 36.70N 141.20E 5 3.6W **¶17205524**
ISCJB VI 08 02 33 33.8–1.8 36.74N–.04 141.23E–.07 13–13 3.5b
IDC VI 08 02 33 33.9–1.2 37.08N 141.08E 0 3.8,3.7b
JMA VI 08 02 33 35.0–.10 36.74N 141.15E 27–1 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s61.00000°,δ67.00000°,λ-17.00000°. NP2:ϕ_s158.00000°,δ74.00000°,λ-156.00000°. $M_0$2.96000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.8km az=9.8.
IDC Error ellipse: s-maj=31.6km s-min=20.8km az=56.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 08 03 26 21.9–.10 38.43N 142.28E 24–1 3.5
NIED VI 08 03 26 00 38.40N 142.30E 74 4.2W **¶600634441**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ43.00000°,λ-177.00000°. NP2:ϕ_s297.00000°,δ88.00000°,λ-47.00000°. $M_0$2.12000×10^{15}
IDC VI 08 06 50 17.6–4.5 35.28N 140.09E 90–23 3.4,3.2 ¶17205539
IDC Error ellipse: s-maj=87.6km s-min=13.5km az=74.0.
ISC VI 08 06 57 54.8–1.1 35.54N–.06 141.1E–.10 33 3.3b 15 0-59
IDC VI 08 06 57 50.5–1.2 35.44N 141.29E 0 3.6,3.4 **¶17205540**
ISCJB VI 08 06 57 53.2–.91 35.51N–.05 141.24E–.10 33 3.4b,3.4
JMA VI 08 06 57 54.3–.10 35.56N 141.07E 36–1 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=32.6km s-min=21.2km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.6km az=160.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 08 08 29 03.0–.10 35.65N 141.00E 18–1 1.9 ¶600634625
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 08 08 40 53.8 36.97N 140.58E 8–1 2.6 ¶600634631
ISC VI 08 09 19 22.4–2.2 35.64N–.05 141.79E–.09 27–15 3.9s,3.8b 22 1-71
IDC VI 08 09 19 19.2–1.3 35.44N 141.88E 0 3.9,3.9s **¶17205545**
JMA VI 08 09 19 20.3–.30 35.69N 141.94E 37–4 3.2,3.9s
ISC Event type ke.
IDC Error ellipse: s-maj=38.3km s-min=22.5km az=116.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 08 10 44 52.7–.66 36.30N–.05 141.95E–.07 19 3.9b,3.6s 41 1-90
NIED VI 08 10 44 00 36.30N 142.10E 14 4.2W,3.6s **¶16720885**
JMA VI 08 10 44 51.9–.20 36.30N 142.11E 68 3.5,3.6s
IDC VI 08 10 44 56.9–2.4 36.12N 141.76E 56–22 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ26.00000°,λ97.00000°. NP2:ϕ_s13.00000°,δ64.00000°,λ87.00000°. $M_0$2.03000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=12.7km az=80.0.
ISC VI 08 11 50 36.9–2.2 39.13N–.04 142.55E–.09 6–11 22 1-59
NIED VI 08 11 50 00 39.10N 142.40E 44 3.5W **¶17205554**
IDC VI 08 11 50 33.3–3.2 39.42N 142.97E 0 3.7,3.5b
ISCJB VI 08 11 50 38.9–1.4 39.08N–.04 142.50E–.09 20–8 3.4b,3.5b
JMA VI 08 11 50 40.9–.10 39.10N 142.39E 33–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ36.00000°,λ-6.00000°. NP2:ϕ_s178.00000°,δ87.00000°,λ-126.00000°. $M_0$1.75000×10^{14}
IDC Error ellipse: s-maj=71.3km s-min=41.2km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.9km az=6.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 08 12 13 28.4–.30 38.04N 142.65E 19–3 3.6 ¶600634772
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 08 12 27 00.9–.10 37.26N 141.19E 35–1 3.5
NIED VI 08 12 27 00 37.30N 141.20E 50 3.6W **¶600634780**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ37.00000°,λ-39.00000°. NP2:ϕ_s358.00000°,δ68.00000°,λ-120.00000°. $M_0$2.84000×10^{14}
JMA VI 08 13 07 03.8–.10 38.58N 142.11E 38–1 3.5
NIED VI 08 13 07 00 38.60N 142.10E 47 3.5W **¶600634812**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ68.00000°,λ-22.00000°. NP2:ϕ_s338.00000°,δ70.00000°,λ-157.00000°. $M_0$2.37000×10^{14}
ISC VI 08 22 11 15.2–.31 38.99N–.03 142.45E–.03 35–1 4.9b,4.6s 635 1-146
NIED VI 08 22 11 00 39.00N 142.50E 32 4.9W,4.6s **¶16580629**
BJI VI 08 22 11 14.0 38.92N 142.38E 44 5.0b,4.9b
JMA VI 08 22 11 14.0–.10 39.04N 142.44E 34–1 5.0,4.9b
ISCJB VI 08 22 11 15.0–.34 39.03N–.02 142.36E–.02 40–2 4.9b,4.6s
MOS VI 08 22 11 15.1–.99 39.19N 142.30E 33 5.1b,4.5s
IDC VI 08 22 11 18.0–1.8 39.04N 142.38E 55–15 4.5,4.4
GCMT VI 08 22 11 17.4–.40 39.20N 142.36E 32–1 5.0W,4.4
NEIC VI 08 22 11 17.4–.36 39.03N 142.32E 47–3 5.1b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ19.00000°,λ-101.00000°. NP2:ϕ_s186.00000°,δ71.00000°,λ-86.00000°. $M_0$2.72000×10^{16}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s171.00000°,δ63.00000°,λ-76.00000°. NP2:ϕ_s323.00000°,δ30.00000°,λ-115.00000°. Principal axes: T Plg17.0000°,Azm251.0000°; N Plg12.0000°,Azm345.0000°; P Plg69.0000° ,Azm109.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=145.7.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=104.0.
IDC Error ellipse: s-maj=12.4km s-min=8.9km az=115.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c37; s74,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.37±.20 $M_{\theta\theta}$-0.13±.12; $M_{\phi\phi}$2.50±.13; $M_{r\theta}$0.03±.15; $M_{\theta\phi}$0.07±.08; $M_{\phi r}$3.07±.21; Best double couple: NP1:ϕ_s181.00000°,δ71.00000° ,λ-91.00000°. NP2:ϕ_s2.00000°,δ19.00000°,λ-89.00000°. Principal axes: T 3.9850,Plg26.0000°,Azm271.0000°; N -0.1270,Plg0.0000°,Azm181.0000° ; P -3.8530,Plg64.0000°,Azm90.0000° $M_0$3.91900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=139.0. Recorded [4 JMA] in Iwate and Miyagi.
ISC VI 08 22 58 18.3–.66 36.22N–.04 141.29E–.06 26 3.8b 28 1-147
NIED VI 08 22 58 00 36.20N 141.30E 8 3.7W **¶600635342**
ISCJB VI 08 22 58 16.6–.56 36.20N–.04 141.34E–.06 26 3.7b
JMA VI 08 22 58 16.5–.10 36.17N 141.31E 50–3 3.7
IDC VI 08 22 58 21.1–2.7 36.15N 141.13E 46–26 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ29.00000°,λ-48.00000°. NP2:ϕ_s40.00000°,δ69.00000°,λ-110.00000°. $M_0$3.36000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.6km az=5.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=26.9km s-min=14.6km az=74.0.
JMA VI 08 23 33 17.4 36.71N 140.59E 9–1 2.5 ¶600635368
ISC VI 09 00 49 02.0–1.2 36.92N–.05 140.65E–.06 8–11 3.7b 14 0-57
JMA VI 09 00 49 02.1 36.93N 140.67E 9–1 3.3 **¶17205581**
IDC VI 09 00 49 05.5–1.6 36.24N 140.46E 0 3.7,3.5
ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s160.00000°,δ64.00000°,λ-100.00000°. NP2:ϕ_s3.00000°,δ27.00000°,λ-70.00000°. Principal axes: T Plg19.0000°,Azm258.0000°; N Plg9.0000°,Azm165.0000°; P Plg69.0000° ,Azm50.0000°
IDC Error ellipse: s-maj=27.2km s-min=17.2km az=26.0.
JMA VI 09 09 14 10.3–.10 37.55N 141.84E 26–3 3.5
NIED VI 09 09 14 00 37.60N 141.80E 17 3.3W **¶600635642**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ25.00000°,λ171.00000°. NP2:ϕ_s327.00000°,δ86.00000°,λ65.00000°. $M_0$9.14000×10^{13}
ISC VI 09 09 23 07.7–1.0 35.24N–.05 141.3E–.10 35 3.6b 20 1-76
JMA VI 09 09 23 05.9–.10 35.25N 141.22E 26–2 3.0 **¶17205611**
ISCJB VI 09 09 23 06.2–.86 35.25N–.04 141.2E–.10 35 3.6s,3.6b
IDC VI 09 09 23 09.7–2.7 35.19N 141.09E 47–24 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=6.0km az=176.0.
IDC Error ellipse: s-maj=32.5km s-min=13.2km az=83.0.
ISC VI 09 10 38 33.9–.46 36.50N–.02 140.97E–.03 13–2 5.3b,5.2s 1097 0-158
NIED VI 09 10 38 00 36.50N 140.90E 5 5.5W,5.2s **¶16580633**
BJI VI 09 10 38 30.8 36.27N 140.97E 15 5.7s,5.5
IDC VI 09 10 38 31.5–.39 36.50N 140.83E 0 5.0,5.0
JMA VI 09 10 38 32.9–.10 36.50N 140.97E 13–2 5.7,5.0
ISCJB VI 09 10 38 34.0–.42 36.48N–.02 140.88E–.02 22–2 5.2s,5.2b
MOS VI 09 10 38 33.4–1.2 36.55N 140.93E 24 5.4b,5.2s
GCMT VI 09 10 38 34.5–.10 36.47N 140.90E 12 5.4W,5.2s
NEIC VI 09 10 38 34.5–1.6 36.48N 140.77E 16–9 5.3b,5.2s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ36.00000°,λ-32.00000°. NP2:ϕ_s142.00000°,δ72.00000°,λ-122.00000°. $M_0$1.96000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=88.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s352.00000°,δ52.00000°,λ-106.00000°. NP2:ϕ_s198.00000°,δ41.00000°,λ-70.00000°. Principal axes: T Plg6.0000°,Azm94.0000°; N Plg13.0000°,Azm3.0000°; P Plg76.0000° ,Azm207.0000°
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.2km az=147.6.
MOS Error ellipse: s-maj=6.9km s-min=4.8km az=104.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c116; s131,c251; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.02 $M_{\theta\theta}$-0.88±.02; $M_{\phi\phi}$1.73±.02; $M_{r\theta}$0.47±.05; $M_{\theta\phi}$-0.44±.02; $M_{\phi r}$0.49±.05; Best double couple: NP1:ϕ_s206.00000°,δ68.00000° ,λ-40.00000°. NP2:ϕ_s313.00000°,δ54.00000°,λ-152.00000°. Principal axes: T 1.8650,Plg9.0000°,Azm262.0000°; N -0.3990,Plg45.0000°,Azm1.0000° ; P -1.4680,Plg43.0000°,Azm164.0000° $M_0$1.66700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=140.0. Felt [III] at Narita and Tokyo. Also felt at Abiko, Ageo, Ashikaga, Chiba, Enzan, Ichinoseki, Kashiwa, Kumagaya and Sendai. Recorded [4 JMA] in Ibaraki and Tochigi.
ISC VI 09 10 47 01.8–1.3 36.41N–.09 140.7E–.10 73 4.0b 9 2-60
IDC VI 09 10 47 02.1–3.1 36.31N 140.35E 74–32 3.7,3.6 **¶17205613**
ISC Event type ke.
IDC Error ellipse: s-maj=48.2km s-min=22.6km az=96.0.
IDC VI 09 11 29 41.0–3.5 36.66N 141.50E 0 3.9,3.9s ¶17205619
IDC Error ellipse: s-maj=57.8km s-min=43.2km az=36.0.
JMA VI 09 13 24 12.0–.10 36.46N 140.99E 19–1 3.5
NIED VI 09 13 24 00 36.50N 141.00E 5 3.4W **¶600635800**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ36.00000°,λ-126.00000°. NP2:ϕ_s197.00000°,δ61.00000°,λ-67.00000°. $M_0$1.22000×10^{14}
JMA VI 09 14 54 43.4–.10 37.45N 141.52E 42–2 3.8
NIED VI 09 14 54 00 37.40N 141.60E 56 3.6W **¶600635859**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ45.00000°,λ93.00000°. NP2:ϕ_s32.00000°,δ46.00000°,λ87.00000°. $M_0$2.56000×10^{14}
ISC VI 09 15 40 56.0–.46 37.93N–.03 141.66E–.04 47–3 4.7b,3.4s 427 1-146
NIED VI 09 15 40 00 37.90N 141.70E 53 4.4W,3.4s **¶16587349**
BJI VI 09 15 40 53.4 37.72N 141.90E 54 4.7b,4.7b
ISCJB VI 09 15 40 55.9–.33 37.89N–.02 141.60E–.03 59–2 4.7b,3.3s
MOS VI 09 15 40 56.3–.86 38.16N 141.55E 50 4.9b,3.3s
JMA VI 09 15 40 56.3–.10 37.90N 141.65E 49–1 4.4,3.3s
IDC VI 09 15 40 56.6–.54 37.88N 141.61E 50–5 4.5,4.4
NEIC VI 09 15 40 57.5–.43 37.89N 141.58E 58–4 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ27.00000°,λ78.00000°. NP2:ϕ_s26.00000°,δ63.00000°,λ96.00000°. $M_0$4.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=41.2.
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=105.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.1km s-min=9.1km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=135.0. Recorded [2 JMA] in Fukushima and Miyagi.
ISC VI 09 18 15 52.9–.45 40.15N–.03 142.48E–.04 42–3 4.9b,4.2s 411 1-144
NIED VI 09 18 15 00 40.20N 142.40E 41 4.8W,4.2s **¶16581060**
BJI VI 09 18 15 48.4 39.96N 142.77E 42 4.9b,4.9b
ISCJB VI 09 18 15 52.8–.39 40.18N–.02 142.37E–.04 48–3 4.9b,4.2s
JMA VI 09 18 15 53.3–.10 40.15N 142.40E 37–1 4.7,4.2s
MOS VI 09 18 15 53.4–.92 40.33N 142.31E 47 5.1b,4.2s
IDC VI 09 18 15 53.4–.67 40.14N 142.36E 42–5 4.7,4.6
NEIC VI 09 18 15 54.9–.63 40.20N 142.30E 54–5 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ19.00000°,λ65.00000°. NP2:ϕ_s27.00000°,δ73.00000°,λ98.00000°. $M_0$1.66000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.4km az=32.9.
JMA Event type fe.
MOS Error ellipse: s-maj=6.6km s-min=4.0km az=111.8.
IDC Error ellipse: s-maj=12.1km s-min=10.4km az=124.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=134.0. Recorded [3 JMA] in Iwate.
ISC VI 09 19 16 10.3–1.0 35.88N–.04 140.05E–.05 68–9 27 0-56
ISCJB VI 09 19 16 09.4–.66 35.87N–.04 140.06E–.05 73–6 3.4b **¶17205653**
JMA VI 09 19 16 10.5–.10 35.91N 140.07E 63–1 3.1
IDC VI 09 19 16 12.7–5.2 35.80N 139.79E 82–33 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.1km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=86.8km s-min=31.5km az=57.0.
ISC VI 09 19 54 03.9–1.0 39.67N–.04 142.14E–.09 48–8 3.7b 34 0-67
NIED VI 09 19 54 00 39.70N 142.10E 50 3.8W **¶17205655**
ISCJB VI 09 19 54 03.2–.69 39.68N–.03 142.13E–.10 55–5 3.6b,3.2s
JMA VI 09 19 54 04.0 39.71N 142.13E 48–1 3.7,3.2s
IDC VI 09 19 54 05.6–2.2 39.65N 142.17E 68–21 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ20.00000°,λ81.00000°. NP2:ϕ_s29.00000°,δ71.00000°,λ93.00000°. $M_0$5.02000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=5.1km az=4.6.
JMA Event type fe.
IDC Error ellipse: s-maj=25.8km s-min=17.6km az=100.0.
ISC VI 09 20 44 15.8–1.1 35.75N–.06 140.84E–.09 14–6 15 0-56
NIED VI 09 20 44 00 35.70N 140.80E 11 3.7W **¶17205659**
ISCJB VI 09 20 44 14.3–1.2 35.78N–.05 141.01E–.09 16–6 3.3b
IDC VI 09 20 44 14.6–3.8 35.64N 140.77E 0 3.4,3.3b
JMA VI 09 20 44 16.1–.10 35.74N 140.84E 14–1 3.5,3.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ31.00000°,λ-111.00000°. NP2:ϕ_s164.00000°,δ61.00000°,λ-78.00000°. $M_0$3.84000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=8.4km az=159.8.
IDC Error ellipse: s-maj=108.3km s-min=26.5km az=49.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 09 20 51 26.5–.47 36.26N–.05 141.54E–.06 38–2 4.6b,4.5s 157 1-147
NIED VI 09 20 51 00 36.30N 141.60E 11 4.5W,4.5s **¶16581495**
IDC VI 09 20 51 20.9–.57 36.20N 141.53E 0 4.4,4.3
NEIC VI 09 20 51 22.8–2.1 36.20N 141.61E 13–13 4.8b,4.3
JMA VI 09 20 51 24.6–.10 36.23N 141.53E 53–3 4.5,4.3
ISCJB VI 09 20 51 24.3–.61 36.21N–.03 141.58E–.05 36–4 4.5b,4.4s
MOS VI 09 20 51 27.1–.92 36.64N 141.31E 35 4.9b,4.4s
BJI VI 09 20 51 28.9 36.28N 140.86E 40 4.8b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ17.00000°,λ101.00000°. NP2:ϕ_s21.00000°,δ74.00000°,λ87.00000°. $M_0$7.40000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.9km az=128.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.0km az=122.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.4km az=7.1.
MOS Error ellipse: s-maj=9.2km s-min=5.5km az=126.8.

ISC VI 09 21 03 15.7–1.1 35.67N–.04 140.78E–.07 13–7 3.6b 25 0-71
NIED VI 09 21 03 00 35.80N 140.90E 14 3.8W **¶17205661**
IDC VI 09 21 03 13.9–1.1 35.63N 140.81E 0 3.8,3.7
ISCJB VI 09 21 03 14.9–.82 35.73N–.04 141.01E–.07 22–5 3.6b,3.7
JMA VI 09 21 03 16.4–.20 35.74N 140.83E 13–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ35.00000°,λ-127.00000°. NP2:ϕ_s201.00000°,δ63.00000°,λ-68.00000°. $M_0$6.37000×10^{14}
IDC Error ellipse: s-maj=28.9km s-min=17.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=6.0km az=170.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 09 21 44 21.4–1.5 37.77N–.04 141.72E–.09 42–13 4.0b 40 1-79
NIED VI 09 21 44 00 37.80N 141.60E 47 3.7W **¶16713157**
IDC VI 09 21 44 14.0–1.5 37.90N 142.12E 0 3.9,3.8
ISCJB VI 09 21 44 21.4–.82 37.76N–.04 141.62E–.09 58–5 3.9b,3.8
JMA VI 09 21 44 22.6 37.78N 141.57E 49–1 3.7,3.8
NEIC VI 09 21 44 24.9–1.9 37.71N 141.50E 74–15 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ25.00000°,λ74.00000°. NP2:ϕ_s18.00000°,δ66.00000°,λ97.00000°. $M_0$4.54000×10^{14}
IDC Error ellipse: s-maj=44.8km s-min=18.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=5.7km az=12.4.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=20.2km s-min=12.4km az=71.0. Recorded [1 JMA] in Fukushima and Miyagi.
ISC VI 09 22 05 59.1–.76 38.99N–.04 141.51E–.08 81–5 3.6b 29 0-67
ISCJB VI 09 22 05 58.7–.56 39.02N–.04 141.51E–.10 88–4 3.5b **¶17205666**
IDC VI 09 22 05 59.1–1.1 39.06N 141.55E 76–8 3.6,3.4
JMA VI 09 22 06 00.4 39.04N 141.46E 78–1 3.4,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.8km s-min=6.6km az=9.9.
IDC Error ellipse: s-maj=27.7km s-min=18.4km az=93.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s42.00000°,δ66.00000°,λ147.00000°. NP2:ϕ_s147.00000°,δ60.00000°,λ28.00000°. Principal axes: T Plg40.0000°,Azm3.0000°; N Plg50.0000°,Azm191.0000°; P Plg4.0000° ,Azm96.0000°
ISC VI 09 22 34 02.0–1.1 35.59N–.05 140.04E–.06 75–8 23 0-55
IDC VI 09 22 34 00.1–1.4 34.83N 138.08E 0 3.6,3.6 **¶17205669**
ISCJB VI 09 22 34 01.1–.69 35.58N–.04 140.05E–.07 80–5 3.4b,3.6
JMA VI 09 22 34 01.9–.20 35.68N 140.04E 69–2 2.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=42.4km s-min=19.8km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.9km az=148.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 10 00 09 13.0–1.9 40.17N–.07 142.35E–.09 30–12 3.4b 22 0-66
NIED VI 10 00 09 00 40.20N 142.40E 38 3.6W **¶17205670**
IDC VI 10 00 09 10.6–2.4 40.50N 142.16E 0 3.6,3.5
ISCJB VI 10 00 09 11.6–1.3 40.22N–.05 142.46E–.09 29–6 3.4b,3.1s
JMA VI 10 00 09 12.8–.10 40.16N 142.41E 35–1 3.5,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ20.00000°,λ62.00000°. NP2:ϕ_s22.00000°,δ73.00000°,λ99.00000°. $M_0$3.29000×10^{14}
IDC Error ellipse: s-maj=52.5km s-min=32.3km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=8.2km az=13.6.
JMA VI 10 01 18 17.2–.10 38.59N 142.10E 50–1 3.5 ¶600636218
JMA Event type fe.
ISC VI 10 03 19 17.8–1.6 40.14N–.07 142.83E–.10 12 3.5b 16 1-60
NIED VI 10 03 19 00 40.10N 142.90E 29 3.6W **¶17205680**
ISCJB VI 10 03 19 17.1–1.4 40.14N–.06 143.0E–.10 12 3.4b,2.9s
JMA VI 10 03 19 19.4–.20 40.12N 142.86E 19–2 3.7,2.9s
IDC VI 10 03 19 35.4–3.2 39.69N 141.59E 138–31 3.4,3.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ17.00000°,λ75.00000°. NP2:ϕ_s22.00000°,δ74.00000°,λ95.00000°. $M_0$2.68000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=8.1km az=2.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.0km s-min=24.6km az=83.0.
ISC VI 10 08 18 32.7–.77 36.43N–.04 140.81E–.04 20–3 4.4b,3.4s 149 0-153
NIED VI 10 08 18 00 36.50N 141.00E 5 4.2W,3.4s **¶16581518**
IDC VI 10 08 18 28.0–.57 36.30N 141.04E 0 4.1,4.1
JMA VI 10 08 18 29.6–.10 36.48N 140.99E 19–1 4.4,4.1
ISCJB VI 10 08 18 31.9–.75 36.47N–.04 140.79E–.04 21–4 4.4b,3.5s
NEIC VI 10 08 18 31.2–3.3 36.33N 140.86E 11–21 4.6b,3.5s
MOS VI 10 08 18 32.4–1.6 36.27N 140.78E 33 4.7b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ54.00000°,λ-16.00000°. NP2:ϕ_s125.00000°,δ77.00000°,λ-143.00000°. $M_0$2.25000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=14.2km az=104.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=142.4.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=7.2km az=122.0. Recorded [3 JMA] in Ibaraki.
MOS Error ellipse: s-maj=9.6km s-min=7.5km az=97.8.
ISC VI 10 10 23 13.2–1.1 38.07N–.06 142.95E–.08 18 3.7b 23 1-62
NIED VI 10 10 23 00 38.10N 143.00E 17 3.6W **¶17205699**
IDC VI 10 10 23 10.3–1.1 38.02N 143.15E 0 3.7,3.6
ISCJB VI 10 10 23 11.4–.76 38.01N–.06 143.07E–.07 18 3.6b,3.6
JMA VI 10 10 23 13.1–.30 38.10N 142.99E 23–5 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ30.00000°,λ-66.00000°. NP2:ϕ_s213.00000°,δ63.00000°,λ-103.00000°. $M_0$2.57000×10^{14}
IDC Error ellipse: s-maj=37.9km s-min=20.1km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.4km az=141.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 10 10 46 15.4 36.74N 140.57E 9–1 2.7 ¶600636487
ISC VI 10 11 31 13.1–2.0 36.54N–.07 140.92E–.08 8–11 3.6b 16 0-78
ISCJB VI 10 11 31 10.4–1.4 36.48N–.05 141.05E–.07 0–7 3.7b,3.4s **¶17205704**
JMA VI 10 11 31 12.8 36.52N 140.93E 14–1 2.8,3.4s
IDC VI 10 11 31 15.5–2.0 37.04N 140.58E 0 3.9,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.1km az=136.2.
IDC Error ellipse: s-maj=72.3km s-min=27.0km az=151.0.
ISC VI 10 13 39 45.1–.51 38.60N–.04 141.90E–.04 54–3 4.7b,4.5s 317 0-146
NIED VI 10 13 39 00 38.60N 141.90E 50 4.5W,4.5s **¶603244135**
BJI VI 10 13 39 40.2 38.54N 142.15E 47 4.8b,4.8b
JMA VI 10 13 39 44.8–.10 38.62N 141.90E 48–1 4.4,4.8b
ISCJB VI 10 13 39 44.1–.38 38.61N–.03 141.87E–.04 56–2 4.7b,4.4s
IDC VI 10 13 39 45.6–1.8 38.63N 141.85E 56–16 4.4,4.3
NEIC VI 10 13 39 45.3–.59 38.67N 141.77E 52–5 4.7b,4.3
MOS VI 10 13 39 46.3–.90 38.88N 141.71E 61 5.0b,4.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ92.00000°. $M_0$6.22000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=39.3.
IDC Error ellipse: s-maj=13.2km s-min=11.0km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.6km az=130.0. Felt at Ichinoseki. Recorded [3 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=106.1.
ISC VI 10 13 42 07.0–.82 37.38N–.04 141.56E–.05 16–4 4.4b,4.1s 92 1-95
NIED VI 10 13 42 00 37.40N 141.60E 5 4.6W,4.1s **¶16593357**
IDC VI 10 13 42 04.2–.64 37.39N 141.58E 0 4.4,4.3
JMA VI 10 13 42 05.5–.20 37.38N 141.59E 19–2 4.7,4.3
NEIC VI 10 13 42 08.1–2.6 37.36N 141.63E 28–19 4.3b,4.3
MOS VI 10 13 42 08.3–1.3 37.43N 141.52E 35 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ28.00000°,λ-54.00000°. NP2:ϕ_s195.00000°,δ67.00000°,λ-107.00000°. $M_0$8.99000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=13.3km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=8.7km az=110.0. Recorded [1 JMA] in Fukushima, Miyagi and Yamagata.
MOS Error ellipse: s-maj=9.7km s-min=6.2km az=94.1.
ISC VI 10 13 53 06.7–2.2 37.41N–.06 141.62E–.09 9–11 16 1-49
IDC VI 10 13 53 03.1–2.0 36.96N 141.84E 0 3.3,3.3 **¶17205710**
ISCJB VI 10 13 53 06.5–1.7 37.37N–.07 141.65E–.10 18–11 3.2b,3.3
JMA VI 10 13 53 07.7–.10 37.39N 141.56E 18–3 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=45.4km s-min=26.3km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=7.3km az=38.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 10 15 01 24.5–1.3 36.35N–.05 141.88E–.09 19 3.6b 22 1-56
IDC VI 10 15 01 21.2–2.0 36.37N 142.06E 0 3.7,3.7b **¶600636682**
ISCJB VI 10 15 01 22.3–.90 36.36N–.04 142.03E–.08 19 3.6b,3.7b
JMA VI 10 15 01 23.2–.30 36.38N 141.88E 8 3.3,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=44.9km s-min=24.3km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.3km az=1.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA VI 10 15 35 07.6–.10 37.28N 141.25E 37–1 3.6
NIED VI 10 15 35 00 37.30N 141.30E 44 3.5W **¶600636704**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ35.00000°,λ-83.00000°. NP2:ϕ_s230.00000°,δ55.00000°,λ-95.00000°. $M_0$2.22000×10^{14}
ISC VI 10 15 40 55.6–1.0 36.93N–.03 140.70E–.04 10–7 3.7b 28 0-61
NIED VI 10 15 40 00 36.90N 140.70E 8 3.6W **¶600636710**
ISCJB VI 10 15 40 54.6–.62 36.92N–.03 140.80E–.05 17–5 3.6b
JMA VI 10 15 40 55.4 36.94N 140.68E 11–1 3.9
IDC VI 10 15 40 58.0–4.9 36.92N 140.79E 34–38 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s304.00000°,δ43.00000°,λ-120.00000°. NP2:ϕ_s163.00000°,δ54.00000°,λ-65.00000°. $M_0$2.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=17.2.
JMA Event type fe.
IDC Error ellipse: s-maj=31.9km s-min=18.8km az=78.0.
ISC VI 10 17 34 25.3–1.2 38.80N–.04 141.75E–.09 71–8 25 0-59
IDC VI 10 17 34 12.5–3.1 39.12N 142.76E 0 3.5,3.4b **¶17205723**
ISCJB VI 10 17 34 24.8–.83 38.80N–.04 141.72E–.10 77–6 3.4b,3.4b
JMA VI 10 17 34 25.8 38.81N 141.67E 72–1 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=39.5km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.6km az=9.0.
JMA Event type fe.
ISC VI 10 20 40 44.9–1.7 38.51N–.07 142.8E–.20 21–7 3.5b 18 1-62
IDC VI 10 20 40 39.6–2.5 38.65N 143.51E 0 3.5,3.4 **¶17205731**
ISCJB VI 10 20 40 43.8–1.9 38.48N–.07 142.82E–.09 25–13 3.5b,3.4
JMA VI 10 20 40 44.3–.30 38.48N 142.81E 31 3.0,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=67.6km s-min=28.8km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=10.5km az=140.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 10 21 22 31.0–2.0 36.54N–.05 140.95E–.08 4–11 3.6b,3.1s 22 0-147
NIED VI 10 21 22 00 36.50N 140.90E 5 3.9W,3.1s **¶16596654**
JMA VI 10 21 22 31.1 36.52N 140.94E 16–1 3.8,3.1s
IDC VI 10 21 22 31.6–.79 36.14N 140.72E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ34.00000°,λ-47.00000°. NP2:ϕ_s154.00000°,δ66.00000°,λ-114.00000°. $M_0$6.91000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=14.2km az=17.0.
ISC VI 10 21 23 47.4–1.5 37.43N–.04 141.56E–.07 30–10 3.7b 36 1-146
NIED VI 10 21 23 00 37.40N 141.50E 50 3.9W **¶17205732**
ISCJB VI 10 21 23 48.0–.77 37.38N–.03 141.48E–.08 50–6 3.7b
JMA VI 10 21 23 49.2–.10 37.41N 141.40E 46–1 3.9
IDC VI 10 21 23 52.1–2.5 37.35N 141.46E 74–23 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ14.00000°,λ73.00000°. NP2:ϕ_s25.00000°,δ77.00000°,λ94.00000°. $M_0$7.09000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.4km az=11.4.
JMA Event type fe.
IDC Error ellipse: s-maj=20.6km s-min=12.7km az=68.0.
JMA VI 10 21 40 02.3–.10 39.11N 142.45E 35–1 3.2 ¶17205734
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 10 21 40 09.7–1.3 39.09N–.05 142.4E–.10 22–8 3.6b 25 1-63
NIED VI 10 21 40 00 39.10N 142.50E 32 3.6W **¶600636937**
IDC VI 10 21 40 06.4–1.0 38.95N 142.20E 0 3.7,3.6b
ISCJB VI 10 21 40 09.0–1.2 39.07N–.04 142.47E–.07 30–7 3.6b,3.6b
JMA VI 10 21 40 10.0–.20 39.11N 142.43E 23–2 3.9,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s332.00000°,δ17.00000°,λ-117.00000°. NP2:ϕ_s180.00000°,δ75.00000°,λ-82.00000°. $M_0$2.62000×10^{14}
IDC Error ellipse: s-maj=23.3km s-min=15.9km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=7.1km az=15.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 10 22 35 54.1–.27 38.31N–.03 142.23E–.03 29–1 5.1b,4.5s 1118 1-151
NIED VI 10 22 35 00 38.40N 142.20E 35 4.9W,4.5s **¶16589792**
JMA VI 10 22 35 53.9–.10 38.36N 142.22E 36–1 5.0,4.5s
ISCJB VI 10 22 35 54.1–.29 38.31N–.02 142.16E–.02 37–2 5.1b,4.4s
MOS VI 10 22 35 54.5–.73 38.51N 142.12E 34 5.3b,4.5s
BJI VI 10 22 35 54.1 38.21N 142.08E 45 5.0b,4.9b
NEIC VI 10 22 35 55.1–.50 38.32N 142.16E 32–3 5.1b,4.9b
GCMT VI 10 22 35 55.1–.20 38.42N 142.26E 30–0 5.0W,4.9b
IDC VI 10 22 35 57.3–2.1 38.33N 142.17E 52–18 4.9,4.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ42.00000°,λ-95.00000°. NP2:ϕ_s287.00000°,δ48.00000°,λ-86.00000°. $M_0$2.70000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=149.8.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=101.8.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=146.0. Felt at Ichinoseki. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c93; s93,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.11±.12 $M_{\theta\theta}$3.58±.08; $M_{\phi\phi}$0.52±.08; $M_{r\theta}$0.21±.10; $M_{\theta\phi}$-0.22±.06; $M_{\phi r}$-0.11±.11; Best double couple: NP1:ϕ_s275.00000°,δ47.00000° ,λ-88.00000°. NP2:ϕ_s93.00000°,δ43.00000°,λ-92.00000°. Principal axes: T 3.6020,Plg2.0000°,Azm4.0000°; N 0.5100,Plg1.0000°,Azm94.0000° ; P -4.1180,Plg88.0000°,Azm220.0000° $M_0$3.86000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=9.4km az=118.0.
ISC VI 10 23 20 46.1–1.1 37.26N–.04 141.34E–.05 34–2 3.8b 38 0-147
NIED VI 10 23 20 00 37.20N 141.40E 23 3.7W **¶16713622**
ISCJB VI 10 23 20 42.4–1.1 37.21N–.03 141.56E–.06 16–7 3.9b,3.4s
IDC VI 10 23 20 42.1–.95 37.25N 141.21E 0 4.5L,4.0
JMA VI 10 23 20 46.0–.10 37.24N 141.31E 34–1 3.9,4.0
NEIC VI 10 23 20 46.3–.61 37.17N 141.51E 35 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ44.00000°,λ-107.00000°. NP2:ϕ_s74.00000°,δ48.00000°,λ-74.00000°. $M_0$3.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.0km az=20.2.
IDC Error ellipse: s-maj=32.6km s-min=18.9km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.4km s-min=12.8km az=141.0. Recorded [2 JMA] in Fukushima.
ISC VI 11 02 08 29.9–1.8 38.36N–.05 142.25E–.06 9–10 4.1b,3.0s 35 1-73
NIED VI 11 02 08 00 38.40N 142.30E 26 3.7W,3.0s **¶16685951**
IDC VI 11 02 08 28.4–.99 38.33N 142.48E 0 3.9,3.8b
JMA VI 11 02 08 32.4–.10 38.44N 142.23E 29–1 4.0,3.8b
NEIC VI 11 02 08 33.7–1.0 38.35N 142.44E 40–9 4.0b,3.8b
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ26.00000°,λ-11.00000°. NP2:ϕ_s269.00000°,δ85.00000°,λ-115.00000°. $M_0$4.10000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=19.0km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.2km s-min=7.1km az=117.0. Recorded [2 JMA] in Miyagi.

ISC	**VI**	**11 03 17 22.5–1.1**	**36.52N–.08**	**140.95E–.08**	**32**	**3.5b**	**16**	**0-60**
IDC	VI	11 03 17 17.9–1.0	36.40N	141.17E	0	3.5,3.4		**¶17205748**
ISCJB	VI	11 03 17 20.8–.85	36.45N–.07	141.02E–.08	32	3.5b,3.4		
JMA	VI	11 03 17 21.1–.10	36.47N	140.98E	15–1	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=17.6km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=8.7km az=150.2.

ISC	**VI**	**11 03 38 46.9–1.7**	**35.97N–.07**	**141.26E–.07**	**18–7**	**3.5b**	**16**	**0-60**
IDC	VI	11 03 38 45.0–1.2	35.89N	141.19E	0	3.5,3.3		**¶17205750**
ISCJB	VI	11 03 38 46.3–1.2	35.95N–.05	141.29E–.08	27–7	3.4b,3.3		
JMA	VI	11 03 38 46.2–.20	35.95N	141.30E	30–3	3.2,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=23.6km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.3km az=165.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**11 04 17 01.7–.48**	**35.38N–.03**	**141.33E–.04**	**27–2**	**4.6b,4.2s**	**316**	**1-152**
NIED	VI	11 04 16 00	35.50N	141.30E	14	4.7W,4.2s		**¶600637189**
BJI	VI	11 04 16 56.8	35.42N	141.30E	11	4.9b,4.6b		
JMA	VI	11 04 16 59.3–.10	35.47N	141.33E	17–2	4.7,4.6b		
ISCJB	VI	11 04 17 00.3–.58	35.39N–.03	141.23E–.03	28–4	4.5b,4.2s		
NEIC	VI	11 04 17 02.9–.85	35.33N	141.16E	36–7	4.7b,4.2s		
MOS	VI	11 04 17 02.3–1.1	35.58N	141.19E	37	4.8b,4.2s		
IDC	VI	11 04 17 03.8–.78	35.35N	141.30E	56–6	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ41.00000°,λ-101.00000°. NP2:ϕ_s358.00000°,δ50.00000°,λ-80.00000°. $M_0$1.49000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=137.1.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=125.0.
MOS Error ellipse: s-maj=8.6km s-min=5.3km az=109.4.
IDC Error ellipse: s-maj=14.3km s-min=11.7km az=90.0.

ISC	**VI**	**11 04 50 02.3–1.7**	**36.88N–.06**	**141.1E–.10**	**41–11**	**3.5b**	**16**	**0-57**
NIED	VI	11 04 50 00	36.90N	141.10E	26	3.5W		**¶600637205**
ISCJB	VI	11 04 50 01.7–1.2	36.87N–.06	141.1E–.10	50–7	3.4b		
JMA	VI	11 04 50 02.7–.10	36.88N	141.06E	50–1	3.7		
IDC	VI	11 04 50 04.4–7.7	36.99N	141.06E	58–60	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ61.00000°,λ151.00000°. NP2:ϕ_s54.00000°,δ65.00000°,λ33.00000°. $M_0$1.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=8.3km az=18.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=55.5km s-min=25.7km az=68.0.

ISC	**VI**	**11 06 18 54.0–1.5**	**35.95N–.04**	**141.04E–.07**	**11–9**	**3.9b,3.0s**	**40**	**0-147**
NIED	VI	11 06 18 00	35.90N	141.00E	8	3.9W,3.0s		**¶16682676**
IDC	VI	11 06 18 52.4–.65	35.89N	140.99E	0	4.3L,4.1		
ISCJB	VI	11 06 18 53.7–.83	35.95N–.03	141.10E–.06	21–5	4.0b,3.1s		
JMA	VI	11 06 18 54.6–.10	35.92N	141.02E	19–2	4.3,3.1s		
NEIC	VI	11 06 18 54.4–3.0	35.94N	140.98E	12–19	4.5b,3.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ48.00000°,λ-58.00000°. NP2:ϕ_s182.00000°,δ51.00000°,λ-120.00000°. $M_0$9.29000×10^{14}
IDC Error ellipse: s-maj=20.4km s-min=16.4km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.1km az=0.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.5km az=96.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.

ISC	**VI**	**11 06 33 50.5–1.0**	**36.94N–.03**	**140.71E–.05**	**10–6**	**3.8b**	**28**	**0-147**
NIED	VI	11 06 33 00	36.90N	140.70E	5	4.0W		**¶16856941**
ISCJB	VI	11 06 33 49.7–.64	36.93N–.03	140.78E–.06	18–4	3.6b		
IDC	VI	11 06 33 49.2–.89	36.91N	140.58E	0	3.9,3.7		
JMA	VI	11 06 33 50.4	36.95N	140.66E	6–1	3.7,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ33.00000°,λ76.00000°. NP2:ϕ_s196.00000°,δ58.00000°,λ99.00000°. $M_0$1.10000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.7km az=22.8.
IDC Error ellipse: s-maj=26.5km s-min=19.1km az=77.0.
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s301.00000°,δ55.00000°,λ-79.00000°. NP2:ϕ_s102.00000°,δ37.00000°,λ-105.00000°. Principal axes: T Plg9.0000°,Azm23.0000°; N Plg9.0000°,Azm114.0000°; P Plg77.0000°,Azm248.0000°

ISC	**VI**	**11 06 34 12.7–1.2**	**36.97N–.04**	**140.51E–.03**	**3–8**	**4.2b**	**48**	**0-147**
NIED	VI	11 06 34 00	36.90N	140.70E	5	4.0W		**¶600637277**
ISCJB	VI	11 06 34 12.9–.58	36.93N–.03	140.76E–.05	18–3	4.2b		
JMA	VI	11 06 34 13.5	36.95N	140.66E	5–1	4.2		
NEIC	VI	11 06 34 17.5–.39	36.99N	140.58E	35	4.6b		
IDC	VI	11 06 34 19.4–1.7	36.92N	140.60E	56–15	4.1,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ42.00000°,λ-76.00000°. NP2:ϕ_s172.00000°,δ50.00000°,λ-102.00000°. $M_0$1.19000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.3km az=25.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=7.6km az=115.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=78.0.

JMA	**VI**	**11 08 04 16.5–.10**	**39.29N**	**142.34E**	**30–1**	**3.5**		
NIED	VI	11 08 04 00	39.30N	142.30E	68	4.1W		**¶600637335**

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ36.00000°,λ158.00000°. NP2:ϕ_s63.00000°,δ77.00000°,λ56.00000°. $M_0$1.87000×10^{15}

ISC	**VI**	**11 17 35 47.8–2.0**	**39.61N–.04**	**142.79E–.07**	**5–11**	**3.7b,2.8s**	**32**	**1-73**
NIED	VI	11 17 35 00	39.60N	142.80E	35	3.7W,2.8s		**¶17205786**
JMA	VI	11 17 35 50.5–.10	39.62N	142.76E	30–2	3.7,2.8s		
IDC	VI	11 17 35 53.2–3.4	39.56N	143.02E	57–26	3.6,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ25.00000°,λ101.00000°. NP2:ϕ_s355.00000°,δ65.00000°,λ85.00000°. $M_0$4.00000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=40.4km s-min=18.1km az=81.0.

ISC	**VI**	**11 18 41 12.3–.58**	**40.79N–.04**	**142.62E–.05**	**48–4**	**4.3b,3.2s**	**93**	**1-87**
NIED	VI	11 18 41 00	40.80N	142.70E	35	4.1W,3.2s		**¶16720900**
JMA	VI	11 18 41 09.8–.20	40.76N	142.66E	25	4.0,3.2s		
ISCJB	VI	11 18 41 10.9–.53	40.79N–.04	142.62E–.06	53–4	4.2b,3.2s		
MOS	VI	11 18 41 10.2–.97	40.77N	142.62E	49	4.4b,3.2s		
IDC	VI	11 18 41 12.8–.71	40.77N	142.53E	52–4	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ18.00000°,λ96.00000°. NP2:ϕ_s14.00000°,δ72.00000°,λ88.00000°. $M_0$1.38000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.4km az=33.1.
MOS Error ellipse: s-maj=9.8km s-min=6.4km az=101.7.
IDC Error ellipse: s-maj=17.2km s-min=13.6km az=95.0.

JMA	**VI**	**11 18 56 18.6–.20**	**35.60N**	**140.97E**	**15–1**	**3.1**		
								¶600637659

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**11 20 08 57.4–.50**	**37.09N–.04**	**141.36E–.04**	**12–2**	**4.4b,3.3s**	**172**	**0-151**
NIED	VI	11 20 08 00	37.20N	141.20E	11	4.2W,3.3s		**¶16591634**
BJI	VI	11 20 08 55.7	36.89N	141.32E	11	4.7b,4.5b		
ISCJB	VI	11 20 08 55.7–.81	37.15N–.03	141.36E–.03	11–4	4.4b,3.3s		
IDC	VI	11 20 08 58.4–.55	37.18N	141.10E	18–2	4.5L,4.2		
NEIC	VI	11 20 08 58.7–.81	37.09N	141.33E	21–5	4.5b,4.2		
JMA	VI	11 20 08 58.4–.10	37.22N	141.21E	21–1	4.5,4.2		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ23.00000°,λ-81.00000°. NP2:ϕ_s218.00000°,δ67.00000°,λ-94.00000°. $M_0$2.43000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.9km az=148.6.
IDC Error ellipse: s-maj=15.3km s-min=13.2km az=83.0.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.5km az=146.0. Recorded [4 JMA] in Fukushima.
JMA Event type fe.

ISC	**VI**	**11 23 29 03.5–1.1**	**35.66N–.06**	**140.22E–.08**	**67–9**	**3.8b**	**15**	**0-59**
ISCJB	VI	11 23 29 02.3–.83	35.65N–.05	140.25E–.09	75–5	3.7b		**¶600637781**
JMA	VI	11 23 29 03.3–.20	35.67N	140.20E	64–2	3.1		
IDC	VI	11 23 29 07.1–3.5	35.28N	139.70E	78–35	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.8km az=152.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=41.0km s-min=28.8km az=70.0.

ISC	**VI**	**12 00 37 58.2–.62**	**35.76N–.03**	**140.76E–.03**	**14–3**	**4.6b,3.8s**	**228**	**0-148**
NIED	VI	12 00 37 00	35.80N	141.00E	8	4.3W,3.8s		**¶603244137**
IDC	VI	12 00 37 54.2–.52	35.64N	140.86E	0	4.3,4.2		
ISCJB	VI	12 00 37 56.1–.55	35.73N–.02	140.68E–.03	8–3	4.6b,3.9s		
JMA	VI	12 00 37 56.2–.10	35.79N	140.88E	11–1	4.4,3.9s		
BJI	VI	12 00 37 56.7	35.67N	141.03E	33	4.8b,4.6b		
NEIC	VI	12 00 37 59.7–1.8	35.75N	140.61E	21–13	4.7b,4.6b		
MOS	VI	12 00 38 00.5–1.4	36.00N	140.63E	33	4.5b,4.6b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ55.00000°,λ-151.00000°. NP2:ϕ_s202.00000°,δ66.00000°,λ-38.00000°. $M_0$3.52000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.4km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=162.1.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.6km az=134.0. Felt at Chiba, Kashiwa and Narita. Recorded [3 JMA] in Chiba and Ibaraki.
MOS Error ellipse: s-maj=8.0km s-min=5.7km az=105.8.

ISC	**VI**	**12 03 51 10.6–2.0**	**37.84N–.05**	**142.00E–.08**	**15–11**		**28**	**1-58**
NIED	VI	12 03 51 00	37.90N	142.00E	56	3.6W		**¶17205813**
IDC	VI	12 03 51 07.4–2.0	37.72N	142.50E	0	3.6,3.6		
ISCJB	VI	12 03 51 10.7–1.2	37.85N–.04	142.00E–.07	25–7	3.5b,3.6		
JMA	VI	12 03 51 12.3–.10	37.89N	141.93E	41–2	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ35.00000°,λ28.00000°. NP2:ϕ_s88.00000°,δ74.00000°,λ121.00000°. $M_0$3.07000×10^{14}
IDC Error ellipse: s-maj=38.3km s-min=24.6km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.3km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**12 05 10 27.1–1.3**	**34.39N–.05**	**141.0E–.10**	**35**	**3.6b**	**19**	**0-58**
JMA	VI	12 05 10 24.4–.40	34.37N	141.09E	37–3	3.2		**¶17205815**
ISCJB	VI	12 05 10 25.8–.86	34.37N–.04	140.94E–.09	35	3.9s,3.4b		
IDC	VI	12 05 10 26.3–5.2	33.91N	140.05E	0	3.9,3.9s		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.9km az=165.5.
IDC Error ellipse: s-maj=205.1km s-min=24.1km az=68.0.

JMA	**VI**	**12 05 48 17.1–.20**	**35.86N**	**141.12E**	**20–2**	**2.8**		
								¶600638012

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**12 08 09 46.1–.37**	**36.40N–.03**	**141.13E–.04**	**42–2**	**4.8b,3.8s**	**443**	**0-158**
NIED	VI	12 08 09 00	36.50N	141.20E	32	4.6W,3.8s		**¶603244143**
BJI	VI	12 08 09 42.7	36.33N	141.37E	44	4.7b,4.7b		
ISCJB	VI	12 08 09 45.7–.38	36.41N–.02	141.05E–.02	44–3	4.7b,3.8s		
JMA	VI	12 08 09 45.4–.10	36.41N	141.08E	47–1	4.6,3.8s		
IDC	VI	12 08 09 46.1–2.3	36.39N	141.12E	40–20	4.6,4.5L		
NEIC	VI	12 08 09 47.2–.42	36.41N	141.00E	46–3	4.9b,4.5L		
MOS	VI	12 08 09 47.4–.83	36.82N	141.02E	44	4.9b,4.5L		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ17.00000°,λ-103.00000°. NP2:ϕ_s215.00000°,δ74.00000°,λ-86.00000°. $M_0$7.98000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=154.6.
JMA Event type fe.
IDC Error ellipse: s-maj=14.6km s-min=10.0km az=93.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=145.0. Felt at Chiba. Recorded [3 JMA] in Ibaraki.
MOS Error ellipse: s-maj=6.4km s-min=4.7km az=104.9.

ISC	**VI**	**12 08 27 46.2–1.2**	**36.87N–.05**	**140.56E–.04**	**7–9**	**3.6b**	**30**	**0-91**
NIED	VI	12 08 27 00	36.80N	140.60E	5	3.7W		**¶600638106**
IDC	VI	12 08 27 45.7–1.3	36.94N	140.55E	0	3.7,3.6		
ISCJB	VI	12 08 27 46.4–.49	36.84N–.03	140.61E–.04	18–4	3.5b,2.4s		
JMA	VI	12 08 27 46.9	36.85N	140.53E	7–1	3.6,2.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ25.00000°,λ-113.00000°. NP2:ϕ_s179.00000°,δ67.00000°,λ-80.00000°. $M_0$3.53000×10^{14}
IDC Error ellipse: s-maj=31.0km s-min=18.8km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.9km az=25.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ47.00000°,λ-89.00000°. NP2:ϕ_s180.00000°,δ43.00000°,λ-91.00000°. Principal axes: T Plg2.0000°,Azm91.0000°; N Plg1.0000°,Azm181.0000°; P Plg88.0000°,Azm298.0000°

ISC	**VI**	**12 12 57 55.8–.52**	**36.25N–.03**	**141.65E–.04**	**28–3**	**5.0b,4.3s**	**580**	**1-150**
NIED	VI	12 12 57 00	36.20N	141.80E	17	4.7W,4.3s		**¶600638305**
NEIC	VI	12 12 57 52.8–1.6	36.18N	141.58E	5–9	4.9b,4.3s		
JMA	VI	12 12 57 53.4–.30	36.24N	141.75E	29	4.9,4.3s		
BJI	VI	12 12 57 54.6	36.31N	141.56E	36	5.0b,4.9b		
ISCJB	VI	12 12 57 54.1–.66	36.20N–.02	141.59E–.02	24–4	4.9b,4.3s		
IDC	VI	12 12 57 55.8–3.3	36.20N	141.63E	27–22	4.7,4.7		
MOS	VI	12 12 57 56.5–.89	36.58N	141.52E	28	5.2b,4.3s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ35.00000°,λ8.00000°. NP2:ϕ_s17.00000°,δ85.00000°,λ125.00000°. $M_0$1.43000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=131.0. Felt at Akiruno and Tokyo. Recorded [2 JMA] in Chiba and Ibaraki.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=143.1.
IDC Error ellipse: s-maj=13.1km s-min=10.4km az=110.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=109.1.

ISC	**VI**	**12 13 33 59.2–.99**	**36.79N–.03**	**140.59E–.05**	**13–7**		**21**	**0-60**
NIED	VI	12 13 33 00	36.80N	140.50E	5	3.4W		**¶17205826**
IDC	VI	12 13 33 57.0–3.0	36.77N	140.70E	0	3.7,3.7		
ISCJB	VI	12 13 33 59.1–.57	36.76N–.03	140.64E–.05	19–5	3.8s,3.5b		
JMA	VI	12 13 33 59.9	36.79N	140.54E	8–1	3.5,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s174.00000°,δ51.00000°,λ-73.00000°. NP2:ϕ_s328.00000°,δ42.00000°,λ-110.00000°. Principal axes: T Plg5.0000°,Azm252.0000°; N Plg13.0000°,Azm343.0000°; P Plg76.0000°,Azm142.0000°
IDC Error ellipse: s-maj=48.5km s-min=29.1km az=29.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=16.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s296.00000°,δ32.00000°,λ-145.00000°. NP2:ϕ_s175.00000°,δ72.00000°,λ-63.00000°. $M_0$1.26000×10^{14}

ISC	**VI**	**12 14 45 12.7–1.9**	**36.37N–.04**	**141.02E–.06**	**25–14**	**3.3b**	**19**	**0-60**
IDC	VI	12 14 45 09.2–2.3	36.25N	141.13E	0	3.4,3.3b		**¶17205828**
ISCJB	VI	12 14 45 12.7–.82	36.35N–.04	141.05E–.07	41–9	3.3b,2.9s		
JMA	VI	12 14 45 13.7–.10	36.34N	140.96E	45–1	3.0,2.9s		

ISC Event type ke.
IDC Error ellipse: s-maj=53.9km s-min=24.3km az=47.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.7km az=8.0.

ISC	**VI**	**12 15 30 21.8–1.3**	**38.19N–.04**	**141.78E–.09**	**50–11**	**3.4b**	**35**	**0-62**
NIED	VI	12 15 30 00	38.20N	141.70E	47	3.4W		**¶17205831**
ISCJB	VI	12 15 30 21.1–.70	38.17N–.03	141.72E–.08	64–6	3.4b		
IDC	VI	12 15 30 22.4–2.4	38.14N	141.76E	59–22	3.5,3.4		
JMA	VI	12 15 30 22.7	38.21N	141.62E	59–1	3.7,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ10.00000°,λ3.00000°. NP2:ϕ_s178.00000°,δ90.00000°,λ100.00000°. $M_0$1.26000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.3km az=10.1.
IDC Error ellipse: s-maj=31.5km s-min=14.0km az=93.0.
JMA Event type fe.

ISC	**VI**	**12 16 01 49.2–1.7**	**39.29N–.04**	**142.70E–.08**	**32–11**	**3.6b**	**36**	**1-63**

NIED VI 12 16 01 00 39.30N 142.50E 56 3.7W **¶17205832**
JMA VI 12 16 01 51.6–.10 39.33N 142.48E 52–1 3.9
IDC VI 12 16 01 53.9–3.7 39.27N 142.38E 69–31 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ76.00000°,λ7.00000°. NP2:ϕ_s238.00000°,δ83.00000°,λ166.00000°. $M_0$4.30000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=36.6km s-min=18.7km az=83.0.
JMA VI 12 17 21 05.7–.10 38.35N 142.20E 39–2 3.7
¶600638434
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 12 17 29 28.6–2.6 37.26N–.04 141.94E–.07 12–15 3.6b 30 1-61
NIED VI 12 17 29 00 37.30N 141.80E 32 3.5W **¶17205860**
IDC VI 12 17 29 27.2–1.5 37.17N 142.03E 0 3.6,3.6
JMA VI 12 17 29 31.5–.20 37.26N 141.82E 36–3 4.1,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ36.00000°,λ-20.00000°. NP2:ϕ_s270.00000°,δ78.00000°,λ-125.00000°. $M_0$2.17000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=22.2km az=86.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 12 18 31 22.2–1.3 36.53N–.03 140.91E–.05 13–7 4.1b,3.3s 56 0-147
NIED VI 12 18 31 00 36.50N 141.00E 5 4.1W,3.3s **¶16730252**
ISCJB VI 12 18 31 20.1–.94 36.47N–.03 141.05E–.04 8–5 4.0b,3.3s
IDC VI 12 18 31 20.1–.62 36.33N 141.00E 0 4.1,4.0
JMA VI 12 18 31 21.8 36.49N 140.94E 17–1 4.4,4.0
NEIC VI 12 18 31 21.4–.55 36.35N 141.07E 10 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ63.00000°,λ-20.00000°. NP2:ϕ_s96.00000°,δ72.00000°,λ-151.00000°. $M_0$1.56000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=25.7.
IDC Error ellipse: s-maj=15.3km s-min=14.2km az=85.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=10.3km az=120.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
ISC VI 12 20 22 48.0–1.2 38.68N–.05 141.94E–.09 50–9 4.0b 35 0-73
NIED VI 12 20 22 00 38.70N 141.80E 59 4.0W **¶16591893**
ISCJB VI 12 20 22 47.1–.78 38.69N–.04 141.90E–.09 58–5 4.0b
JMA VI 12 20 22 48.6–.10 38.70N 141.80E 53–1 3.9
IDC VI 12 20 22 50.0–2.5 38.68N 141.89E 70–23 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ23.00000°,λ89.00000°. NP2:ϕ_s15.00000°,δ67.00000°,λ90.00000°. $M_0$1.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=6.3km az=19.0.
JMA Event type fe.
IDC Error ellipse: s-maj=22.6km s-min=14.8km az=83.0.
ISC VI 13 00 08 31.1–.94 35.55N–.05 140.17E–.07 65–8 3.6b 29 0-79
ISCJB VI 13 00 08 30.5–.60 35.56N–.04 140.13E–.08 73–5 3.5b **¶17206016**
JMA VI 13 00 08 30.9–.20 35.62N 140.15E 65–2 3.3
IDC VI 13 00 08 32.3–1.9 35.53N 140.06E 75–18 3.6,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=6.2km az=168.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.1km s-min=11.6km az=73.0.
ISC VI 13 01 40 29.7–1.7 35.28N–.04 141.20E–.08 6–10 3.7b 27 1-84
JMA VI 13 01 40 31.0–.10 35.44N 141.27E 21–2 3.7 **¶600638732**
IDC VI 13 01 40 37.7–2.8 35.33N 140.97E 62–23 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=36.1km s-min=11.7km az=85.0.
JMA VI 13 02 08 58.7–.10 38.55N 142.45E 31–2 3.6
¶600638747
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 13 07 42 36.6–1.5 36.35N–.04 141.15E–.07 26–10 3.8b 31 1-83
NIED VI 13 07 42 00 36.30N 141.10E 38 3.8W **¶17206036**
ISCJB VI 13 07 42 36.4–.76 36.33N–.03 141.15E–.07 43–7 3.8b
JMA VI 13 07 42 37.0–.10 36.32N 141.05E 47–1 3.6
IDC VI 13 07 42 40.5–2.4 36.25N 140.98E 65–22 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ23.00000°,λ92.00000°. NP2:ϕ_s23.00000°,δ67.00000°,λ89.00000°. $M_0$5.72000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.6km az=179.3.
JMA Event type fe.
IDC Error ellipse: s-maj=22.0km s-min=10.0km az=67.0.
ISC VI 13 07 44 43.6–.91 35.69N–.04 140.73E–.07 46–8 3.8b 32 0-148
NIED VI 13 07 44 00 35.70N 140.80E 47 4.1W **¶16720915**
ISCJB VI 13 07 44 42.5–.55 35.67N–.04 140.70E–.08 52–5 3.7b,3.0s
JMA VI 13 07 44 43.0–.10 35.72N 140.67E 46–1 3.6,3.0s
IDC VI 13 07 44 45.1–1.9 35.54N 140.63E 62–17 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ20.00000°,λ91.00000°. NP2:ϕ_s26.00000°,δ70.00000°,λ90.00000°. $M_0$1.42000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=6.4km az=165.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s35.00000°,δ62.00000°,λ84.00000°. NP2: ϕ_s227.00000°,δ28.00000°,λ101.00000°. Principal axes: T Plg72.0000°,Azm292.0000° ; N Plg5.0000°,Azm37.0000°; P Plg17.0000°,Azm129.0000°
IDC Error ellipse: s-maj=20.2km s-min=7.8km az=68.0.
ISC VI 13 07 51 09.7–1.0 36.89N–.09 141.99E–.07 19 3.5b 20 1-90
IDC VI 13 07 51 06.3–.99 36.82N 142.27E 0 3.7,3.6 **¶600639007**
ISCJB VI 13 07 51 07.4–.79 36.87N–.06 142.18E–.08 19 3.5b,3.6
JMA VI 13 07 51 09.9–.50 36.88N 141.89E 22–4 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=22.4km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.2km az=152.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 13 08 01 46.2–.90 35.70N–.05 140.79E–.06 49–8 3.7b 30 0-76
NIED VI 13 08 01 00 35.70N 140.70E 50 4.1W **¶17206038**
ISCJB VI 13 08 01 44.5–.57 35.70N–.04 140.84E–.06 53–5 3.6b,3.1s
IDC VI 13 08 01 45.9–1.7 35.61N 140.79E 48–17 3.7,3.6
JMA VI 13 08 01 45.4–.10 35.73N 140.68E 49–1 3.3,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ82.00000°. NP2:ϕ_s28.00000°,δ73.00000°,λ93.00000°. $M_0$1.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.8km az=164.5.
IDC Error ellipse: s-maj=19.8km s-min=8.4km az=71.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s34.00000°,δ83.00000°,λ89.00000°. NP2: ϕ_s222.00000°,δ7.00000°,λ98.00000°. Principal axes: T Plg52.0000°,Azm303.0000° ; N Plg1.0000°,Azm34.0000°; P Plg38.0000°,Azm125.0000°
ISC VI 13 08 21 01.4–1.1 35.75N–.05 140.84E–.08 49–9 3.3b 16 0-56
IDC VI 13 08 20 54.4–1.4 35.65N 141.00E 0 3.5,3.3b **¶17206039**
ISCJB VI 13 08 21 00.1–.87 35.75N–.05 140.92E–.09 56–8 3.3b,3.3b
JMA VI 13 08 21 01.5–.10 35.73N 140.68E 48–1 2.8,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=26.9km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=8.2km az=157.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 13 11 29 44.3–1.6 35.76N–.07 141.76E–.10 23 14 1-60
IDC VI 13 11 29 39.8–4.0 35.87N 142.05E 0 3.5,3.3L **¶17206044**
ISCJB VI 13 11 29 42.6–1.1 35.71N–.06 141.82E–.08 23 3.2b,3.3L
JMA VI 13 11 29 44.9–.20 35.83N 141.69E 34–3 3.1,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=78.2km s-min=38.7km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.9km az=153.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 13 13 38 46.7–1.7 37.31N–.04 141.24E–.06 5–10 4.1b 34 0-75
NIED VI 13 13 38 00 37.30N 141.30E 5 3.8W **¶16730405**
ISCJB VI 13 13 38 45.3–1.0 37.30N–.03 141.33E–.05 8–5 4.0b
IDC VI 13 13 38 46.3–.85 37.34N 141.18E 0 3.9,3.9b
JMA VI 13 13 38 47.1 37.29N 141.23E 14–1 3.8,3.9b
NEIC VI 13 13 38 50.5–2.7 37.39N 141.14E 27–19 4.2b,3.9b

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ38.00000°,λ-87.00000°. NP2:ϕ_s268.00000°,δ52.00000°,λ-92.00000°. $M_0$6.07000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.2km az=24.5.
IDC Error ellipse: s-maj=21.1km s-min=16.6km az=100.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=13.2km s-min=7.2km az=127.0. Recorded [1 JMA] in Fukushima.
ISC VI 13 15 53 59.9–1.2 35.74N–.05 140.76E–.08 49–9 3.4b 20 0-59
ISCJB VI 13 15 53 58.9–.78 35.73N–.05 140.75E–.09 58–6 3.5b **¶17206054**
IDC VI 13 15 53 59.2–5.9 35.74N 140.83E 48–42 3.4,3.3
JMA VI 13 15 54 00.1–.10 35.75N 140.63E 47–1 2.9,3.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.4km s-min=6.8km az=160.9.
IDC Error ellipse: s-maj=79.1km s-min=15.3km az=75.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 13 16 20 14.5–2.0 38.99N–.05 142.44E–.09 26–13 3.6b 26 1-63
JMA VI 13 16 20 16.0–.10 38.99N 142.39E 42–1 3.6 **¶17206056**
IDC VI 13 16 20 19.8–3.7 38.91N 142.24E 76–34 3.6,3.5
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=31.3km s-min=18.5km az=97.0.
ISC VI 13 20 59 34.6–1.7 37.31N–.04 141.42E–.06 25–11 4.0b,3.2s 62 0-147
NIED VI 13 20 59 00 37.30N 141.40E 20 4.1W,3.2s **¶16720921**
ISCJB VI 13 20 59 34.1–.79 37.29N–.03 141.42E–.06 36–6 4.1b,3.2s
JMA VI 13 20 59 35.1–.10 37.34N 141.33E 33–1 4.4,3.2s
IDC VI 13 20 59 36.5–3.1 37.31N 141.27E 37–27 4.1,4.0L
NEIC VI 13 20 59 39.7–1.1 37.21N 141.18E 70–9 4.3b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ10.00000°,λ-64.00000°. NP2:ϕ_s213.00000°,δ81.00000°,λ-95.00000°. $M_0$1.69000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.1km az=12.7.
JMA Event type fe.
IDC Error ellipse: s-maj=17.1km s-min=14.5km az=78.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=9.6km az=109.0. Recorded [2 JMA] in Fukushima.
JMA VI 13 22 38 10.8–.10 37.35N 141.83E 42–3 3.5
NIED VI 13 22 38 00 37.30N 141.80E 50 3.4W **¶600639758**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s62.00000°,δ7.00000°,λ68.00000°. NP2: ϕ_s264.00000°,δ83.00000°,λ93.00000°. $M_0$1.55000×10^{14}
JMA VI 13 23 47 20.6–.10 38.22N 142.07E 11–1 2.5
¶600639860
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 14 06 29 12.7–1.3 39.99N–.05 142.59E–.07 21–4 4.0b 31 1-73
NIED VI 14 06 29 00 39.90N 142.40E 44 3.8W **¶17206092**
JMA VI 14 06 29 15.6–.10 39.92N 142.40E 39–1 3.8
IDC VI 14 06 29 20.1–2.4 39.82N 142.36E 85–18 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s215.00000°,δ23.00000°,λ109.00000°. NP2:ϕ_s14.00000°,δ68.00000°,λ82.00000°. $M_0$5.04000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=15.5km az=105.0.
JMA VI 14 08 01 05.8–.10 39.35N 142.37E 31–1 3.6
NIED VI 14 08 01 00 39.30N 142.40E 32 3.4W **¶600640127**
JMA Event type fe.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s171.00000°,δ46.00000°,λ9.00000°. NP2:ϕ_s75.00000°,δ84.00000°,λ136.00000°. $M_0$1.54000×10^{14}
ISC VI 14 10 27 00.6–2.2 35.88N–.06 141.83E–.07 10–13 3.6b,3.3s 26 1-147
IDC VI 14 10 26 59.2–.70 35.86N 141.84E 0 3.9,3.7 **¶600640197**
NIED VI 14 10 27 00 36.00N 141.80E 11 3.8W,3.7
JMA VI 14 10 27 01.8–.20 35.99N 141.75E 51 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=15.9km az=101.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s102.00000°,δ53.00000°,λ-42.00000°. NP2:ϕ_s221.00000°,δ58.00000°,λ-134.00000°. $M_0$6.49000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 14 14 56 01.2–.39 39.49N–.03 142.50E–.03 25–2 5.3s,5.2b 984 1-148
BJI VI 14 14 55 57.2 39.40N 142.52E 19 5.4b,5.3s **¶17206119**
NEIC VI 14 14 56 00.7–.33 39.48N 142.39E 20–2 5.2b,5.3s
JMA VI 14 14 56 00.0–.10 39.49N 142.53E 28–1 5.3,5.3s
GCMT VI 14 14 56 00.7–.20 39.57N 142.62E 15 5.4W,5.3s
NIED VI 14 14 56 00 39.50N 142.60E 17 5.2W,5.3s
ISCJB VI 14 14 56 01.6–.30 39.50N–.02 142.41E–.02 36–2 5.2s,5.2b
IDC VI 14 14 56 02.5–2.8 39.49N 142.47E 32–20 4.9,4.9s
MOS VI 14 14 56 02.0–.88 39.55N 142.42E 39 5.4b,5.4s
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=145.0. Felt [III] at Misawa. Also felt at Aomori and Ichinoseki. Recorded [3 JMA] in Akita, Aomori, Iwate and Miyagi.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s22.00000°,δ89.00000°,λ118.00000°. NP2:ϕ_s114.00000°,δ28.00000°,λ2.00000°. Principal axes: T Plg40.0000°,Azm317.0000°; N Plg28.0000°,Azm201.0000°; P Plg38.0000° ,Azm87.0000°
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c56; s83,c132; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.00±.02 $M_{\theta\theta}$0.08±.01; $M_{\phi\phi}$-0.08±.01; $M_{r\theta}$0.78±.04; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$1.56±.04; Best double couple: NP1:ϕ_s27.00000°,δ90.00000° ,λ92.00000°. NP2:ϕ_s123.00000°,δ2.00000°,λ6.00000°. Principal axes: T 1.7260,Plg45.0000° ,Azm299.0000°; N 0.0370,Plg2.2000°,Azm207.0000°; P -1.7630,Plg45.0000°,Azm114.0000° $M_0$1.74500×10^{17}
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s141.00000°,δ16.00000°,λ23.00000°. NP2:ϕ_s29.00000°,δ84.00000°,λ105.00000°. $M_0$6.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=155.5.
IDC Error ellipse: s-maj=11.5km s-min=8.8km az=99.0.
MOS Error ellipse: s-maj=5.8km s-min=3.9km az=105.2.
ISC VI 14 16 43 03.2–1.3 35.19N–.05 141.20E–.10 35 3.3b 17 1-59
IDC VI 14 16 42 57.3–3.5 35.47N 141.61E 0 3.5,3.4b **¶17206122**
ISCJB VI 14 16 43 01.5–1.0 35.18N–.05 141.25E–.10 35 3.3b,3.4b
JMA VI 14 16 43 01.2–.10 35.21N 141.22E 37–2 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=104.1km s-min=26.1km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.6km az=168.0.
ISC VI 14 17 14 23.5–3.3 38.42N–.05 142.3E–.10 26–22 19 1-78
NIED VI 14 17 14 00 38.50N 142.20E 8 3.3W **¶17206127**
IDC VI 14 17 14 20.3–1.9 38.25N 142.73E 0 3.6,3.6b
ISCJB VI 14 17 14 22.3–1.4 38.39N–.05 142.34E–.08 27–9 3.7b,3.6s
JMA VI 14 17 14 24.3–.10 38.48N 142.24E 26–2 3.8,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s180.00000°,δ32.00000°,λ-18.00000°. NP2:ϕ_s285.00000°,δ80.00000°,λ-121.00000°. $M_0$1.10000×10^{14}
IDC Error ellipse: s-maj=43.7km s-min=29.6km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.8km az=14.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 14 17 54 49.7–.37 39.50N–.03 142.51E–.04 38–1 4.6b,4.3s 378 1-145
NIED VI 14 17 54 00 39.50N 142.50E 17 4.6W,4.3s **¶16603752**
JMA VI 14 17 54 46.6–.10 39.50N 142.55E 28–1 4.6,4.3s
ISCJB VI 14 17 54 48.0–.42 39.49N–.02 142.48E–.03 35–3 4.6b,4.3s
BJI VI 14 17 54 47.9 39.39N 142.29E 31 4.8b,4.6b
MOS VI 14 17 54 48.4–1.1 39.56N 142.51E 35 4.8b,4.5s
IDC VI 14 17 54 50.8–1.8 39.45N 142.44E 45–16 4.2,4.1
NEIC VI 14 17 54 50.7–.51 39.47N 142.44E 46–5 4.7b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s262.00000°,δ4.00000°,λ141.00000°. NP2:ϕ_s31.00000°,δ88.00000°,λ87.00000°. $M_0$7.96000×10^{15}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.2km az=136.8.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=95.3.
IDC Error ellipse: s-maj=15.0km s-min=12.2km az=111.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=137.0. Recorded [2 JMA] in Iwate and Miyagi.
JMA VI 14 21 05 32.1–.10 38.28N 142.12E 38–1 3.6
NIED VI 14 21 05 00 38.30N 142.10E 20 3.3W **¶600640552**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s99.00000°,δ23.00000°,λ-24.00000°. NP2:ϕ_s211.00000°,δ81.00000°,λ-112.00000°. $M_0$1.06000×10^{14}
ISC VI 14 22 18 12.6–2.4 39.50N–.05 142.53E–.09 12–14 3.7b 24 1-67
NIED VI 14 22 18 00 39.50N 142.50E 23 3.5W **¶17206136**
ISCJB VI 14 22 18 11.9–1.3 39.49N–.05 142.63E–.08 19–8 3.5b,3.4s
JMA VI 14 22 18 13.5–.10 39.51N 142.53E 28–1 3.7,3.4s
IDC VI 14 22 18 17.6–3.2 39.51N 142.56E 54–29 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ26.00000°,λ25.00000°. NP2:ϕ_s55.00000°,δ80.00000°,λ114.00000°. $M_0$1.88000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.5km az=22.7.
IDC Error ellipse: s-maj=34.1km s-min=21.1km az=104.0.
ISC VI 14 23 10 21.5–1.7 39.44N–.04 142.40E–.08 27–11 3.5b 28 0-60
ISCJB VI 14 23 10 19.3–1.2 39.48N–.04 142.57E–.07 19–7 3.5b **¶17206139**
JMA VI 14 23 10 20.0–.10 39.51N 142.53E 29–1 3.6
IDC VI 14 23 10 25.6–2.9 39.48N 142.37E 63–27 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.8km az=16.0.
IDC Error ellipse: s-maj=31.0km s-min=21.2km az=114.0.
ISC VI 14 23 15 50.5–.90 36.97N–.04 140.71E–.05 13–6 3.6b 30 0-147
IDC VI 14 23 15 49.0–.89 37.00N 140.71E 0 3.9,3.7 **¶17206140**
ISCJB VI 14 23 15 50.0–.57 36.95N–.03 140.80E–.05 18–4 3.6b,3.7
JMA VI 14 23 15 50.8 36.97N 140.67E 7–1 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=17.6km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.2km az=20.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s215.00000°,δ63.00000°,λ-112.00000°. NP2:ϕ_s77.00000°,δ35.00000°,λ-54.00000°. Principal axes: T Plg15.0000°,Azm321.0000°; N Plg20.0000°,Azm226.0000°; P Plg65.0000°,Azm86.0000°
ISC VI 15 06 07 44.6–2.3 38.75N–.05 142.2E–.10 9–11 3.8b 20 1-50
IDC VI 15 06 07 49.9–12 39.45N 141.41E 0 3.8b,3.7 **¶17206161**
JMA VI 15 06 07 50.3–.10 38.85N 142.04E 46–1 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=249.3km s-min=43.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 15 07 42 09.0 36.06N 140.67E 12–1 3.5
¶600640870
JMA Event type fe.
ISC VI 15 12 03 11.2–1.7 37.32N–.04 141.62E–.06 16–10 26 1-57
NIED VI 15 12 03 00 37.30N 141.60E 29 3.5W **¶17206181**
IDC VI 15 12 03 09.2–1.8 37.32N 141.72E 0 3.6,3.6
ISCJB VI 15 12 03 10.2–1.0 37.29N–.03 141.70E–.06 19–7 3.6b,3.6
JMA VI 15 12 03 12.9–.10 37.34N 141.55E 33–2 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s64.00000°,δ37.00000°,λ-97.00000°. NP2:ϕ_s253.00000°,δ53.00000°,λ-85.00000°. $M_0$1.93000×10^{14}
IDC Error ellipse: s-maj=35.9km s-min=26.2km az=94.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.7km az=12.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 15 12 48 26.7–.72 38.87N–.05 142.01E–.07 54–5 4.2b,3.0s 70 0-78
NIED VI 15 12 48 00 38.90N 141.90E 53 4.0W,3.0s **¶600641001**
ISCJB VI 15 12 48 25.6–.54 38.90N–.03 141.97E–.06 58–4 4.2b,2.9s
MOS VI 15 12 48 26.0–1.0 38.99N 141.91E 58 4.7b,2.9s
JMA VI 15 12 48 26.8–.10 38.91N 141.94E 52–1 4.0,2.9s
IDC VI 15 12 48 28.4–.91 38.89N 141.95E 69–6 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ88.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ91.00000°. $M_0$1.15000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=4.4km az=26.3.
MOS Error ellipse: s-maj=10.8km s-min=7.0km az=84.5.
JMA Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=12.9km az=107.0.
JMA VI 15 13 55 30.4–.10 39.44N 142.51E 33–1 3.5
¶600641047
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 15 15 16 23.4–.20 35.69N 140.93E 17–1 1.8
¶16617370
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 15 15 16 32.6–.58 38.35N–.04 142.30E–.05 27–3 4.2b,3.4s 129 1-89
NIED VI 15 15 16 00 38.30N 142.30E 41 4.1W,3.4s **¶600641122**
ISCJB VI 15 15 16 31.7–.59 38.28N–.03 142.39E–.05 38–4 4.2b,3.4s
MOS VI 15 15 16 31.5–.81 38.30N 142.34E 33 4.4b,3.4s
BJI VI 15 15 16 33.0 38.28N 142.17E 48 4.8b,4.6b
JMA VI 15 15 16 33.1–.20 38.32N 142.26E 39–2 4.2,4.6b
IDC VI 15 15 16 34.0–.81 38.27N 142.29E 37–5 4.1,4.0
NEIC VI 15 15 16 34.7–.54 38.31N 142.29E 46–4 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ13.00000°,λ-99.00000°. NP2:ϕ_s20.00000°,δ77.00000°,λ-88.00000°. $M_0$1.81000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.0km az=24.9.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=109.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=12.6km az=100.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.5km az=112.0. Recorded [2 JMA] in Miyagi.
ISC VI 15 15 36 32.6–1.4 38.82N–.05 142.14E–.10 47–11 4.0b,3.2s 38 0-78
NIED VI 15 15 36 00 38.90N 142.10E 47 3.9W,3.2s **¶17206192**
ISCJB VI 15 15 36 31.5–.88 38.86N–.04 142.12E–.10 52–6 4.0b,3.3s
JMA VI 15 15 36 32.7–.10 38.85N 142.06E 46–1 3.8,3.3s
IDC VI 15 15 36 34.1–2.0 38.87N 142.10E 60–17 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ75.00000°. NP2:ϕ_s25.00000°,δ68.00000°,λ96.00000°. $M_0$7.64000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.1km s-min=5.8km az=19.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.9km s-min=12.0km az=95.0.
ISC VI 15 15 56 42.7–.91 36.70N–.04 140.62E–.04 11–6 3.8b 46 0-91
NIED VI 15 15 56 00 36.70N 140.60E 5 3.7W **¶16614394**
ISCJB VI 15 15 56 42.0–.56 36.66N–.03 140.69E–.04 19–3 3.8b,2.5s
JMA VI 15 15 56 43.4 36.70N 140.58E 8–1 3.9,2.5s
IDC VI 15 15 56 46.7–2.5 36.68N 140.56E 39–23 4.3L,3.8
NEIC VI 15 15 56 46.8–.70 36.74N 140.55E 39–7 4.6b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ31.00000°,λ-80.00000°. NP2:ϕ_s173.00000°,δ59.00000°,λ-96.00000°. $M_0$4.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.8km az=30.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s184.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s8.00000°,δ44.00000°,λ-87.00000°. Principal axes: T Plg1.0000°,Azm276.0000°; N Plg2.0000°,Azm186.0000°; P Plg88.0000°,Azm34.0000°
IDC Error ellipse: s-maj=19.5km s-min=15.4km az=103.0.
NEIC Event type fe. Error ellipse: s-maj=9.1km s-min=6.4km az=125.0. Recorded [3 JMA] in Ibaraki.
ISC VI 15 16 23 25.8–2.0 37.64N–.04 141.99E–.07 6–11 3.7b 31 1-61
NIED VI 15 16 23 00 37.70N 142.00E 20 3.4W **¶17206194**
IDC VI 15 16 23 24.3–1.5 37.54N 142.38E 0 3.6,3.5
JMA VI 15 16 23 28.1–.20 37.66N 141.95E 30–3 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ48.00000°,λ-117.00000°. NP2:ϕ_s130.00000°,δ48.00000°,λ-63.00000°. $M_0$1.48000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=21.3km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 16 02 19 00.3–1.5 36.50N–.05 140.96E–.06 8–9 3.9b 41 0-147
ISCJB VI 16 02 18 58.6–1.2 36.45N–.04 141.04E–.04 8–7 3.9b **¶16730628**
JMA VI 16 02 19 00.4 36.49N 140.95E 12–2 4.5
NIED VI 16 02 19 00 36.50N 141.00E 5 4.1W
NEIC VI 16 02 19 03.5–3.0 36.42N 140.88E 29–21 4.0b
IDC VI 16 02 19 04.5–3.1 36.40N 140.87E 37–27 3.9,3.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.8km az=159.1.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ45.00000°,λ-57.00000°. NP2:ϕ_s329.00000°,δ54.00000°,λ-118.00000°. $M_0$1.35000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=9.0km az=133.0. Recorded [1 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=21.8km s-min=16.2km az=75.0.
JMA VI 16 04 25 04.4–.10 38.40N 142.16E 35–1 3.6
NIED VI 16 04 25 00 38.40N 142.20E 38 3.6W **¶600641605**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ29.00000°,λ164.00000°. NP2:ϕ_s23.00000°,δ82.00000°,λ62.00000°. $M_0$2.55000×10^{14}
JMA VI 16 06 48 29.8 38.73N 141.70E 52–1 3.5
NIED VI 16 06 48 00 38.70N 141.70E 65 3.6W **¶600641699**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ79.00000°,λ178.00000°. NP2:ϕ_s61.00000°,δ88.00000°,λ11.00000°. $M_0$2.52000×10^{14}
ISC VI 16 06 53 02.1–.99 36.77N–.03 140.52E–.04 6–6 4.2b,3.6s 62 0-91
NIED VI 16 06 53 00 36.70N 140.70E 5 4.1W,3.6s **¶16603776**
IDC VI 16 06 53 01.2–1.1 36.85N 140.58E 0 4.2,4.0
JMA VI 16 06 53 01.9 36.72N 140.62E 5–1 4.2,4.0
ISCJB VI 16 06 53 01.3–.62 36.71N–.03 140.71E–.04 12–3 4.2b,3.4s
MOS VI 16 06 53 01.7–.94 36.45N 140.84E 33 4.4b,3.4s
NEIC VI 16 06 53 05.3–1.9 36.86N 140.53E 25–14 4.4b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s330.00000°,δ32.00000°,λ-82.00000°. NP2:ϕ_s140.00000°,δ58.00000°,λ-95.00000°. $M_0$1.40000×10^{15}
IDC Error ellipse: s-maj=26.3km s-min=17.8km az=151.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s345.00000°,δ54.00000°,λ-79.00000°. NP2:ϕ_s147.00000°,δ38.00000°,λ-105.00000°. Principal axes: T Plg8.0000°,Azm67.0000°; N Plg9.0000°,Azm158.0000°; P Plg78.0000°,Azm296.0000°
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=34.5.
MOS Error ellipse: s-maj=11.5km s-min=7.5km az=117.9.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.2km az=141.0. Recorded [3 JMA] in Ibaraki.
JMA VI 16 06 59 07.3 38.45N 141.85E 56–1 3.6
¶600641702
JMA Event type fe.
JMA VI 16 11 36 24.9–.10 37.35N 141.37E 31–1 3.0
¶600641835
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 16 11 40 48.8–1.5 36.27N–.04 141.10E–.06 31–11 3.6b 26 1-56
IDC VI 16 11 40 44.5–1.1 36.15N 141.12E 0 3.8L,3.7 **¶17206312**
JMA VI 16 11 40 51.8–.10 36.36N 140.85E 55–1 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=21.4km az=100.0.
JMA VI 16 14 01 26.6 36.84N 140.60E 10–1 1.6
¶603482800
ISC VI 16 14 38 42.0–1.8 36.96N–.04 141.88E–.05 28–12 4.2b,3.1s 87 1-146
NIED VI 16 14 38 00 37.00N 141.80E 29 4.0W,3.1s **¶600641912**
IDC VI 16 14 38 38.2–.63 36.92N 141.85E 0 4.2,4.2
ISCJB VI 16 14 38 39.4–.90 36.95N–.03 141.91E–.04 23–6 4.1b,3.1s
MOS VI 16 14 38 41.5–1.2 37.05N 141.81E 33 4.4b,3.1s
JMA VI 16 14 38 42.7–.20 36.96N 141.71E 49–3 4.3,3.1s
NEIC VI 16 14 38 43.0–.55 36.93N 141.93E 35 4.3b,3.1s
BJI VI 16 14 38 43.5 36.86N 141.23E 20 4.8b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ41.00000°,λ-69.00000°. NP2:ϕ_s329.00000°,δ52.00000°,λ-108.00000°. $M_0$1.31000×10^{15}
IDC Error ellipse: s-maj=17.7km s-min=13.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=23.4.
MOS Error ellipse: s-maj=10.2km s-min=7.1km az=97.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=9.1km az=126.0. Recorded [2 JMA] in Fukushima.
JMA VI 16 14 38 52.0–.20 38.16N 142.05E 39–1
¶600641914
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 16 14 48 07.2–.89 38.11N–.04 142.42E–.06 14 3.8b 30 1-74
NIED VI 16 14 48 00 38.20N 142.60E 14 3.8W **¶16720937**
ISCJB VI 16 14 48 05.3–.65 38.14N–.04 142.63E–.06 14 3.7b
IDC VI 16 14 48 05.4–.99 38.20N 142.54E 0 3.7,3.7b
JMA VI 16 14 48 07.2–.20 38.17N 142.59E 32–3 4.0,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ16.00000°,λ-176.00000°. NP2:ϕ_s166.00000°,δ89.00000°,λ-74.00000°. $M_0$5.60000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.2km az=173.5.
IDC Error ellipse: s-maj=24.4km s-min=16.9km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 16 19 00 13.5–.51 35.32N–.03 141.17E–.04 23–3 5.1b,4.3s 686 0-151
NIED VI 16 19 00 00 35.40N 141.30E 20 4.9W,4.3s **¶16621491**
BJI VI 16 19 00 09.9 35.23N 141.17E 19 4.8b,4.7b
IDC VI 16 19 00 10.4–.42 35.35N 141.18E 0 4.8,4.8
ISCJB VI 16 19 00 13.4–.54 35.27N–.02 141.14E–.02 31–3 5.0b,4.1s
JMA VI 16 19 00 13.2–.10 35.42N 141.29E 31–2 4.9,4.1s
MOS VI 16 19 00 14.0–1.1 35.29N 141.01E 33 5.2b,4.1s
GCMT VI 16 19 00 16.3–.50 35.22N 141.22E 12 4.9W,4.1s
NEIC VI 16 19 00 16.3–.57 35.28N 141.02E 38–5 5.1b,4.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ29.00000°,λ0.00000°. NP2:ϕ_s314.00000°,δ90.00000°,λ-119.00000°. $M_0$2.74000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=9.2km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=172.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=4.5km az=117.9.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c29; s60,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.42±.11 $M_{\theta\theta}$-1.81±.09; $M_{\phi\phi}$0.38±.07; $M_{r\theta}$1.16±.23; $M_{\theta\phi}$0.76±.06; $M_{\phi r}$-2.10±.24; Best double couple: NP1:ϕ_s140.00000°,δ75.00000°,λ116.00000°. NP2:ϕ_s259.00000°,δ29.00000°,λ32.00000°. Principal axes: T 3.1100,Plg53.0000°,Azm81.0000°; N -0.2120,Plg25.0000°,Azm313.0000°; P -2.9000,Plg26.0000°,Azm210.0000° $M_0$3.00500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=106.0. Felt at Chiba and Narita. Recorded [2 JMA] in Chiba and Ibaraki.
ISC VI 16 23 56 43.4–.56 35.38N–.04 141.21E–.07 33 4.1b 48 0-91
NIED VI 16 23 56 00 35.40N 141.20E 29 4.0W **¶16714860**
ISCJB VI 16 23 56 41.7–.42 35.42N–.04 141.31E–.06 33 4.1b,3.0s
JMA VI 16 23 56 41.8–.20 35.40N 141.23E 26–2 3.6,3.0s
NEIC VI 16 23 56 43.9–.45 35.42N 141.28E 35 4.5b,3.0s
IDC VI 16 23 56 44.7–2.7 35.38N 141.16E 38–23 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ66.00000°,λ174.00000°. NP2:ϕ_s94.00000°,δ85.00000°,λ24.00000°. $M_0$1.20000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.1km az=171.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=89.0.
IDC Error ellipse: s-maj=21.2km s-min=13.7km az=82.0.
ISC VI 17 00 14 01.2–1.9 39.06N–.04 142.45E–.06 4–11 4.1b 46 1-88
IDC VI 17 00 13 59.9–.79 38.95N 142.51E 0 4.0,3.9b **¶16714861**
NIED VI 17 00 14 00 39.00N 142.40E 29 3.7W,3.9b
JMA VI 17 00 14 03.8–.10 39.07N 142.41E 32–1 4.0,3.9b
NEIC VI 17 00 14 06.8–.77 39.05N 142.51E 48–6 4.4b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=17.3km az=87.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ37.00000°,λ-91.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ-89.00000°. $M_0$3.76000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=5.7km az=120.0. Recorded [1 JMA] in Iwate and Miyagi.
ISC VI 17 05 19 32.9–2.0 38.98N–.04 142.73E–.07 1–11 4.2b,3.6s 53 1-145

NIED VI 17 05 19 00 39.00N 142.70E 5 4.1W,3.6s **¶16713636**
JMA VI 17 05 19 33.3–.10 39.02N 142.75E 18–1 4.2,3.6s
NEIC VI 17 05 19 38.4–.95 38.99N 142.78E 41–8 4.4b,3.6s
IDC VI 17 05 19 38.6–2.4 38.98N 142.68E 40–21 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ40.00000°,λ-64.00000°. NP2:ϕ_s280.00000°,δ55.00000°,λ-110.00000°. $M_0$1.83000×10^{15}
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.7km az=117.0.
IDC Error ellipse: s-maj=18.9km s-min=13.6km az=95.0.
JMA VI 17 08 18 29.8–.30 36.93N 141.98E 26–4 3.5
NIED VI 17 08 18 00 36.90N 142.00E 26 3.4W **¶600642459**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ6.00000°,λ84.00000°. NP2:ϕ_s18.00000°,δ84.00000°,λ91.00000°. $M_0$1.21000×10^{14}
ISC VI 17 09 50 42.9–1.1 38.83N–.06 142.51E–.06 14–5 3.6b 24 1-63
IDC VI 17 09 50 40.7–1.8 38.77N 142.70E 0 3.7,3.7 **¶17206378**
JMA VI 17 09 50 43.7–.20 38.84N 142.45E 26–2 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=46.3km s-min=21.6km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 17 13 57 57.4–.10 37.45N 141.50E 40–2 3.5
NIED VI 17 13 57 00 37.40N 141.50E 35 3.7W **¶600642639**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ79.00000°,λ178.00000°. NP2:ϕ_s200.00000°,δ88.00000°,λ11.00000°. $M_0$4.25000×10^{14}
ISC VI 17 14 21 02.8–1.4 36.57N–.04 140.84E–.06 15–7 3.7b 23 0-79
IDC VI 17 14 20 58.4–1.7 36.62N 141.18E 0 3.7,3.6 **¶17206392**
ISCJB VI 17 14 20 59.3–1.1 36.49N–.04 141.06E–.06 5–5 3.6b,3.3s
NIED VI 17 14 21 00 36.50N 140.90E 5 3.7W,3.3s
JMA VI 17 14 21 01.4 36.51N 140.93E 16–1 3.7,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=20.2km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.9km az=9.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ30.00000°,λ-78.00000°. NP2:ϕ_s165.00000°,δ61.00000°,λ-97.00000°. $M_0$3.70000×10^{14}
JMA Event type fe.
ISC VI 17 19 21 54.9–.74 36.31N–.06 140.49E–.07 104–6 4.1b 33 0-148
NIED VI 17 19 21 00 36.30N 140.30E 101 4.1W **¶17206407**
ISCJB VI 17 19 21 54.0–.63 36.26N–.05 140.42E–.09 110–4 4.0b
IDC VI 17 19 21 55.8–1.7 36.21N 140.35E 107–15 4.1,3.8
JMA VI 17 19 21 56.1–.10 36.28N 140.30E 101–1 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ45.00000°,λ-138.00000°. NP2:ϕ_s238.00000°,δ62.00000°,λ-53.00000°. $M_0$1.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=12.0km s-min=7.7km az=165.1.
IDC Error ellipse: s-maj=23.4km s-min=10.2km az=70.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s220.00000°,δ50.00000°,λ-87.00000°. NP2:ϕ_s35.00000°,δ40.00000°,λ-94.00000°. Principal axes: T Plg5.0000°,Azm308.0000° ; N Plg3.0000°,Azm38.0000°; P Plg84.0000°,Azm153.0000°
ISC VI 17 20 10 07.8–1.8 36.45N–.05 141.06E–.07 8–11 3.6b 17 0-56
ISCJB VI 17 20 10 06.8–1.3 36.43N–.06 141.10E–.07 7–7 3.6b **¶17206412**
IDC VI 17 20 10 06.5–2.2 36.52N 141.12E 0 3.7,3.6
JMA VI 17 20 10 09.4–.10 36.48N 140.96E 15–1 3.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.9km az=165.4.
IDC Error ellipse: s-maj=42.6km s-min=27.4km az=63.0.
ISC VI 17 20 13 04.4–1.1 40.13N–.04 142.07E–.08 62–7 3.5b 28 0-64
NIED VI 17 20 13 00 40.10N 142.10E 71 3.4W **¶17206413**
ISCJB VI 17 20 13 03.2–.71 40.14N–.04 142.11E–.09 68–5 3.4b
JMA VI 17 20 13 04.5 40.15N 142.06E 60–1 3.7
IDC VI 17 20 13 04.6–2.3 40.14N 142.32E 77–23 3.4,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ32.00000°,λ33.00000°. NP2:ϕ_s236.00000°,δ73.00000°,λ118.00000°. $M_0$1.59000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=6.1km az=1.2.
JMA Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=16.6km az=91.0.
JMA VI 17 23 14 30.2–.10 38.27N 141.80E 49–1 3.6
¶600643053
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 18 00 13 37.3–1.4 36.90N–.06 141.2E–.10 21–5 3.5b 24 0-57
NIED VI 18 00 13 00 36.90N 141.10E 35 3.4W **¶17206425**
IDC VI 18 00 13 33.0–1.9 37.15N 141.45E 0 3.5,3.5b
JMA VI 18 00 13 40.6–.10 36.94N 141.06E 51–1 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ17.00000°,λ96.00000°. NP2:ϕ_s22.00000°,δ73.00000°,λ88.00000°. $M_0$1.28000×10^{14}
IDC Error ellipse: s-maj=41.4km s-min=28.0km az=63.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 18 00 17 44.4 36.91N 140.67E 7–1 3.5
¶600643130
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s225.00000°,δ54.00000°,λ-69.00000°. NP2:ϕ_s13.00000°,δ41.00000°,λ-116.00000°. Principal axes: T Plg7.0000°,Azm301.0000°; N Plg17.0000°,Azm33.0000°; P Plg72.0000° ,Azm189.0000°
ISC VI 18 01 40 20.0–1.3 38.31N–.04 141.94E–.09 50–12 3.7b 37 0-146
NIED VI 18 01 40 00 38.40N 141.80E 59 3.8W **¶17206429**
ISCJB VI 18 01 40 19.6–.77 38.32N–.03 141.87E–.08 60–6 3.7b
JMA VI 18 01 40 20.7–.10 38.35N 141.80E 57–1 3.8
IDC VI 18 01 40 21.9–3.5 38.30N 141.88E 68–30 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ48.00000°,λ42.00000°. NP2:ϕ_s222.00000°,δ60.00000°,λ129.00000°. $M_0$4.89000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=5.1km az=17.2.
JMA Event type fe.
IDC Error ellipse: s-maj=28.1km s-min=16.8km az=76.0.
ISC VI 18 04 30 42.8–.53 36.19N–.05 141.88E–.06 23 4.2b 59 1-147
NIED VI 18 04 30 00 36.20N 141.80E 17 4.1W **¶600643283**
IDC VI 18 04 30 39.2–.64 36.18N 141.87E 0 4.1,4.0
ISCJB VI 18 04 30 40.6–.38 36.19N–.03 141.96E–.05 23 4.1b,4.0
JMA VI 18 04 30 42.9–.20 36.23N 141.79E 52 4.2,4.0
NEIC VI 18 04 30 43.0–2.0 36.21N 141.91E 25–14 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ23.00000°,λ105.00000°. NP2:ϕ_s26.00000°,δ68.00000°,λ84.00000°. $M_0$1.66000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=15.0km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.4km az=19.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.0km az=90.0.
JMA VI 18 04 33 22.4 36.68N 140.62E 12 3.8
NIED VI 18 04 33 00 36.70N 140.60E 11 3.5W **¶16631483**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s315.00000°,δ60.00000°,λ-93.00000°. NP2:ϕ_s141.00000°,δ30.00000°,λ-85.00000°. Principal axes: T Plg15.0000°,Azm47.0000°; N Plg3.0000°,Azm316.0000°; P Plg75.0000° ,Azm216.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ44.00000°,λ-34.00000°. NP2:ϕ_s282.00000°,δ67.00000°,λ-128.00000°. $M_0$2.14000×10^{14}
JMA VI 18 06 13 27.9–.10 38.03N 141.76E 56–1 3.7
NIED VI 18 06 13 00 38.00N 141.80E 53 4.0W **¶600643368**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ24.00000°,λ66.00000°. NP2:ϕ_s349.00000°,δ68.00000°,λ100.00000°. $M_0$1.09000×10^{15}
ISC VI 18 09 12 49.5–.63 36.97N–.04 141.23E–.07 49–5 3.9b,3.1s 51 0-90
NIED VI 18 09 12 00 37.00N 141.20E 53 4.1W,3.1s **¶603244163**
ISCJB VI 18 09 12 48.2–.65 36.98N–.03 141.24E–.07 52–4 3.9b,3.2s
JMA VI 18 09 12 49.5–.10 37.00N 141.17E 48–1 4.0,3.2s
IDC VI 18 09 12 50.4–.64 36.99N 141.16E 55–6 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ19.00000°,λ114.00000°. NP2:ϕ_s17.00000°,δ73.00000°,λ82.00000°. $M_0$1.57000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.4km az=13.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=9.1km az=137.0.
JMA VI 18 09 24 42.7–.10 35.81N 140.90E 11–1 3.1
¶600643510
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 18 09 57 55.6–.56 35.56N–.04 140.14E–.04 68–4 4.4b 139 0-148
NIED VI 18 09 57 00 35.70N 140.10E 68 4.4W **¶16632942**
JMA VI 18 09 57 54.9–.20 35.67N 140.12E 71–2 4.2
IDC VI 18 09 57 54.9–1.2 35.53N 140.18E 65–12 4.2,4.1
ISCJB VI 18 09 57 55.5–.26 35.55N–.03 140.03E–.04 75–2 4.3b,4.1
NEIC VI 18 09 57 55.8–.49 35.55N 140.05E 65–4 4.4b,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ39.00000°,λ-41.00000°. NP2:ϕ_s233.00000°,δ65.00000°,λ-122.00000°. $M_0$4.05000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s41.00000°,δ77.00000°,λ124.00000°. NP2: ϕ_s149.00000°,δ36.00000°,λ23.00000°. Principal axes: T Plg47.0000°,Azm346.0000° ; N Plg33.0000°,Azm212.0000°; P Plg24.0000°,Azm105.0000°
IDC Error ellipse: s-maj=14.9km s-min=6.2km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=149.8.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.6km az=102.0. Felt [II] at Tokyo. Also felt at Chiba, Kodaira, Sagamihara, Yokohama, Yokosuka and Zama. Recorded [2 JMA] in Chiba, Ibaraki, Kanagawa, Saitama, Tochigi and Tokyo.
JMA VI 18 10 57 33.9–.30 36.27N 141.96E 61 3.2
¶600643564
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA VI 18 11 15 16.0–.10 38.28N 141.96E 45–1 3.5
NIED VI 18 11 15 00 38.30N 142.00E 68 4.2W **¶600643586**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ64.00000°,λ13.00000°. NP2:ϕ_s131.00000°,δ78.00000°,λ154.00000°. $M_0$2.16000×10^{15}
ISC VI 18 11 31 05.9–.30 37.69N–.02 141.75E–.02 24–1 5.9b,5.4s 2161 1-161
NIED VI 18 11 31 00 37.60N 141.90E 20 5.7W,5.4s **¶602897676**
BJI VI 18 11 31 01.9 37.52N 141.64E 15 5.9s,5.8
IDC VI 18 11 31 02.5–.31 37.66N 141.75E 0 5.5,5.4
JMA VI 18 11 31 04.6–.10 37.62N 141.82E 28–2 6.0,5.4
ISCJB VI 18 11 31 05.1–.34 37.62N–.01 141.73E–.01 26–2 5.8b,5.5s
GCMT VI 18 11 31 05.9–.10 37.68N 141.76E 16–0 5.8W,5.5s
NEIC VI 18 11 31 05.9–.07 37.66N 141.66E 20 5.9b,5.7W
MOS VI 18 11 31 06.2–.85 37.69N 141.74E 37 6.0b,5.5s
NEIC VI 18 11 31 06.0–.00 37.61N 141.86E 11 6.0b,5.5s
NEIC VI 18 11 31 14.2–.00 37.73N 141.67E 10 6.0b,5.5s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ36.00000°,λ-161.00000°. NP2:ϕ_s141.00000°,δ79.00000°,λ-55.00000°. $M_0$3.74000×10^{17}
IDC Error ellipse: s-maj=10.6km s-min=8.0km az=81.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=155.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c237; s135,c362;Duration: 2$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.89±.04 $M_{\theta\theta}$3.02±.03; $M_{\phi\phi}$-1.13±.03; $M_{r\theta}$-1.90±.10; $M_{\theta\phi}$-1.17±.02; $M_{\phi r}$5.86±.19; Best double couple: NP1: ϕ_s152.00000°,δ83.00000°,λ-68.00000°. NP2:ϕ_s259.00000°,δ23.00000°,λ-162.00000°. Principal axes: T 5.9550,Plg35.0000°,Azm224.0000°; N 1.4610,Plg22.0000°,Azm330.0000° ; P -7.4170,Plg47.0000°,Azm85.0000° $M_0$6.68600×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=141.0. Felt [II] at Tokyo. Felt widely in eastern Honshu. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.18 $M_{\theta\theta}$1.24 $M_{\phi\phi}$-0.06 $M_{r\theta}$-1.20 $M_{\theta\phi}$-0.28 $M_{\phi r}$2.85 Best double couple: NP1:ϕ_s271.00000°,δ15.00000°,λ-149.00000°. NP2:ϕ_s151.00000°,δ82.00000°,λ-77.00000°. Principal axes: T 2.9000,Plg36.0000° ,Azm229.0000°; N 0.7500,Plg13.0000°,Azm329.0000°; P -3.6400,Plg51.0000°,Azm75.0000° $M_0$3.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s271.00000°,δ11.00000°,λ-153.00000°. NP2:ϕ_s155.00000°,δ85.00000°,λ-80.00000°. Principal axes: T Plg39.0000°,Azm236.0000°; N Plg0.0000°,Azm0.0000°; P Plg49.0000° ,Azm76.0000°
MOS Error ellipse: s-maj=5.6km s-min=4.0km az=105.4.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.38 $M_{\theta\theta}$1.71 $M_{\phi\phi}$-0.33 $M_{r\theta}$-0.55 $M_{\theta\phi}$-0.79 $M_{\phi r}$5.00 Best double couple: NP1:ϕ_s167.00000° ,δ85.00000°,λ-76.00000°. NP2:ϕ_s276.00000°,δ14.00000°,λ-160.00000°. Principal axes: T 4.5000,Plg39.0000°,Azm245.0000°; N 1.3800,Plg13.0000°,Azm346.0000° ; P -5.8800,Plg47.0000°,Azm91.0000° $M_0$5.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.81 $M_{\theta\theta}$2.53 $M_{\phi\phi}$-0.72 $M_{r\theta}$-0.42 $M_{\theta\phi}$-1.12 $M_{\phi r}$2.49 Best double couple: NP1:ϕ_s257.00000° ,δ42.00000°,λ-149.00000°. NP2:ϕ_s143.00000°,δ70.00000°,λ-52.00000°. Principal axes: T 3.2100,Plg16.0000°,Azm206.0000°; N 0.6200,Plg35.0000°,Azm308.0000° ; P -3.8300,Plg50.0000°,Azm95.0000° $M_0$3.50000×10^{17}
ISC VI 18 11 50 07.5–2.1 36.85N–.05 141.36E–.10 15–11 3.6b 18 1-57
IDC VI 18 11 50 03.2–2.8 36.95N 142.06E 0 3.7,3.6 **¶17206460**
ISCJB VI 18 11 50 07.3–1.5 36.81N–.04 141.4E–.10 23–8 3.5b,3.6
JMA VI 18 11 50 09.6–.10 36.84N 141.19E 36–1 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=59.7km s-min=30.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=7.0km az=1.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 18 13 11 48.7–.20 37.40N 141.94E 18–2 3.6
¶600643642
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 18 15 04 16.9–.91 38.01N–.05 142.20E–.07 30 3.9b 30 1-68
NIED VI 18 15 04 00 37.90N 142.30E 11 3.7W **¶600643736**
ISCJB VI 18 15 04 14.3–.64 37.94N–.04 142.30E–.06 30 3.8b
JMA VI 18 15 04 14.0–.20 37.92N 142.28E 34–2 4.1
IDC VI 18 15 04 18.9–3.4 37.89N 142.21E 51–28 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ49.00000°,λ-140.00000°. NP2:ϕ_s25.00000°,δ61.00000°,λ-48.00000°. $M_0$3.70000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.8km az=167.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=32.9km s-min=14.3km az=81.0.
ISC VI 18 16 57 51.7–1.9 38.55N–.05 142.0E–.10 29–12 3.7b 23 1-62
NIED VI 18 16 57 00 38.60N 142.00E 35 3.5W **¶17206474**
IDC VI 18 16 57 45.9–2.0 38.70N 142.51E 0 3.7,3.6
ISCJB VI 18 16 57 50.6–1.3 38.55N–.05 142.11E–.09 30–7 3.6b,3.6
JMA VI 18 16 57 52.6–.10 38.60N 142.00E 34–1 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ29.00000°,λ-31.00000°. NP2:ϕ_s294.00000°,δ75.00000°,λ-116.00000°. $M_0$1.95000×10^{14}
IDC Error ellipse: s-maj=43.4km s-min=30.6km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=7.5km az=6.8.
JMA Event type fe.
ISC VI 18 19 00 52.4–1.2 36.74N–.06 141.8E–.10 35 3.6b 18 1-57
NIED VI 18 19 00 00 36.70N 141.90E 35 3.8W **¶17206483**
JMA VI 18 19 00 49.1–.30 36.71N 141.91E 36 3.6
ISCJB VI 18 19 00 50.8–1.0 36.65N–.05 141.8E–.10 35 3.5b
IDC VI 18 19 00 58.5–5.8 36.50N 141.24E 73–38 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ23.00000°,λ54.00000°. NP2:ϕ_s32.00000°,δ71.00000°,λ104.00000°. $M_0$5.21000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=7.3km az=6.9.
IDC Error ellipse: s-maj=74.6km s-min=14.9km az=77.0.
ISC VI 18 19 10 27.9–1.4 36.97N–.04 141.31E–.06 13–8 4.3b 88 0-147
NIED VI 18 19 10 00 37.00N 141.20E 11 4.0W **¶603244165**
ISCJB VI 18 19 10 27.9–.79 36.99N–.03 141.31E–.05 25–5 4.3b
JMA VI 18 19 10 29.3–.10 36.99N 141.20E 28–1 4.3
NEIC VI 18 19 10 31.8–.66 37.04N 141.19E 37–6 4.5b
IDC VI 18 19 10 32.8–2.9 37.00N 141.11E 43–27 4.0,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ34.00000°,λ-63.00000°. NP2:ϕ_s41.00000°,δ60.00000°,λ-107.00000°. $M_0$1.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=23.0.

JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.0km az=124.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=22.5km s-min=14.4km az=76.0.
ISC VI 18 20 05 26.5–1.9 36.86N–.05 141.30E–.06 12–11 4.5b 44 0-69
NIED VI 18 20 05 00 36.80N 141.30E 5 3.7W **¶600643990**
ISCJB VI 18 20 05 25.1–1.4 36.77N–.05 141.45E–.06 15–9 4.5b,3.8s
JMA VI 18 20 05 27.6–.10 36.81N 141.28E 27–1 3.9,3.8s
NEIC VI 18 20 05 29.5–.59 36.68N 141.39E 35 4.9b,3.8s
IDC VI 18 20 05 29.9–3.4 37.39N 141.06E 0 3.9,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ42.00000°,λ-84.00000°. NP2:ϕ_s193.00000°,δ49.00000°,λ-95.00000°. $M_0$4.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.6km az=136.9.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=14.2km s-min=9.0km az=154.0. Recorded [1 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=78.1km s-min=24.6km az=153.0.
ISC VI 18 20 14 10.6–2.1 37.95N–.04 141.77E–.07 5–12 31 1-58
NIED VI 18 20 14 00 38.00N 141.70E 44 3.6W **¶17206489**
IDC VI 18 20 14 07.6–2.4 37.97N 142.33E 0 3.8,3.7
JMA VI 18 20 14 15.2–.10 37.97N 141.67E 50–1 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ35.00000°,λ123.00000°. NP2:ϕ_s350.00000°,δ61.00000°,λ69.00000°. $M_0$2.62000×10^{14}
IDC Error ellipse: s-maj=44.2km s-min=32.5km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 18 21 36 60.0–1.4 38.04N–.05 143.0E–.10 18 3.6b 20 1-62
ISCJB VI 18 21 36 58.9–.00 38.05N–.06 142.98E–.09 18 3.5b **¶17206492**
IDC VI 18 21 36 58.0–2.5 37.84N 143.27E 0 3.7,3.6
JMA VI 18 21 37 02.1–.10 38.16N 142.87E 36–3 3.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.6km az=153.1.
IDC Error ellipse: s-maj=56.5km s-min=32.0km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 19 04 23 50.1 36.85N 140.70E 10–1 3.6
¶600644382
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s159.00000°,δ49.00000°,λ-112.00000°. NP2:ϕ_s12.00000°,δ45.00000°,λ-66.00000°. Principal axes: T Plg2.0000°,Azm265.0000°; N Plg17.0000°,Azm174.0000°; P Plg73.0000°,Azm2.0000°
JMA VI 19 05 31 57.7–.10 36.41N 140.56E 54–1 2.7
¶600644402
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 19 06 41 04.8–.10 37.39N 141.43E 34–2 3.9
NIED VI 19 06 41 00 37.40N 141.40E 47 3.7W **¶600644437**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s306.00000°,δ68.00000°,λ-163.00000°. NP2:ϕ_s209.00000°,δ74.00000°,λ-23.00000°. $M_0$3.47000×10^{14}
ISC VI 19 06 52 45.6–.69 35.40N–.03 141.00E–.04 27–4 4.7b,3.9s 236 0-139
NIED VI 19 06 52 00 35.50N 141.10E 38 4.8W,3.9s **¶16632969**
BJI VI 19 06 52 37.8 35.22N 141.28E 10 4.7b,4.7b
IDC VI 19 06 52 42.0–.52 35.43N 140.82E 0 4.6,4.5L
MOS VI 19 06 52 44.6–1.3 35.48N 141.03E 33 4.8b,4.5L
ISCJB VI 19 06 52 45.7–.46 35.37N–.03 140.96E–.04 43–3 4.6b,3.9s
JMA VI 19 06 52 46.1–.10 35.52N 141.02E 38–1 4.5,3.9s
NEIC VI 19 06 52 47.1–.25 35.43N 140.87E 35 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ56.00000°,λ35.00000°. NP2:ϕ_s301.00000°,δ61.00000°,λ140.00000°. $M_0$1.58000×10^{16}
IDC Error ellipse: s-maj=16.9km s-min=11.2km az=100.0.
MOS Error ellipse: s-maj=8.7km s-min=4.9km az=110.9.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=171.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s75.00000°,δ57.00000°,λ78.00000°. NP2: ϕ_s277.00000°,δ35.00000°,λ108.00000°. Principal axes: T Plg75.0000°,Azm311.0000°; N Plg10.0000°,Azm82.0000°; P Plg11.0000°,Azm174.0000°
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=116.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISC VI 19 08 46 42.6–1.2 39.61N–.04 142.11E–.08 44–8 3.6b 31 0-47
NIED VI 19 08 46 00 39.60N 142.10E 56 3.7W **¶17206517**
ISCJB VI 19 08 46 41.5–.77 39.62N–.03 142.11E–.09 51–5 3.6b
JMA VI 19 08 46 41.9 39.60N 142.11E 48–1 3.7
IDC VI 19 08 46 44.6–3.0 39.71N 142.06E 61–22 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ72.00000°. NP2:ϕ_s33.00000°,δ69.00000°,λ97.00000°. $M_0$3.92000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=5.1km az=13.3.
JMA Event type fe.
IDC Error ellipse: s-maj=35.4km s-min=15.9km az=124.0.
ISC VI 19 09 11 20.9–1.5 35.81N–.06 141.2E–.10 26 13 0-65
IDC VI 19 09 11 15.1–3.0 35.90N 141.68E 0 3.7b,3.7 **¶17206518**
ISCJB VI 19 09 11 19.3–1.3 35.80N–.07 141.3E–.10 26 3.8b,2.8s
JMA VI 19 09 11 22.6–.10 35.76N 141.02E 35–1 2.6,2.8s
ISC Event type ke.
IDC Error ellipse: s-maj=66.9km s-min=29.5km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=10.4km az=169.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 19 13 46 21.0–1.9 37.02N–.05 141.40E–.07 8–10 3.7b 28 0-90
NIED VI 19 13 46 00 37.00N 141.20E 8 3.6W **¶17206529**
ISCJB VI 19 13 46 21.1–1.3 37.02N–.04 141.41E–.07 16–9 4.2s,3.6b
JMA VI 19 13 46 23.3–.10 37.03N 141.25E 23–1 3.6,3.6b
IDC VI 19 13 46 24.6–3.5 36.99N 141.57E 36–31 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ43.00000°,λ-115.00000°. NP2:ϕ_s51.00000°,δ52.00000°,λ-69.00000°. $M_0$3.16000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.2km az=18.4.
IDC Error ellipse: s-maj=27.5km s-min=23.7km az=132.0.
ISC VI 19 15 49 24.0–.73 38.49N–.05 142.08E–.05 44–6 4.2b 94 1-86
NIED VI 19 15 49 00 38.50N 141.90E 53 4.0W **¶600644817**
ISCJB VI 19 15 49 22.3–.60 38.49N–.03 142.08E–.06 46–4 4.2b,3.3s
MOS VI 19 15 49 23.3–.84 38.53N 142.08E 55 4.4b,3.3s
JMA VI 19 15 49 24.3–.10 38.52N 141.92E 44–1 4.1,3.3s
NEIC VI 19 15 49 24.4–.67 38.46N 142.19E 56–6 4.3b,3.3s
IDC VI 19 15 49 25.2–2.4 38.51N 141.93E 51–20 4.1,4.0L
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ57.00000°,λ28.00000°. NP2:ϕ_s350.00000°,δ67.00000°,λ144.00000°. $M_0$1.29000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.8km az=16.5.
MOS Error ellipse: s-maj=10.9km s-min=7.9km az=97.0.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.1km az=113.0. Felt at Ichinoseki. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=27.1km s-min=14.9km az=84.0.
JMA VI 19 16 31 20.3–.10 37.49N 141.37E 28–1 3.5
NIED VI 19 16 31 00 37.50N 141.40E 35 3.5W **¶600644853**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ62.00000°,λ-167.00000°. NP2:ϕ_s202.00000°,δ79.00000°,λ-28.00000°. $M_0$2.23000×10^{14}
ISC VI 19 16 59 58.8–1.7 37.35N–.04 141.48E–.07 14–9 3.7b 32 0-69
NIED VI 19 17 00 00 37.40N 141.30E 53 3.8W **¶17206537**
IDC VI 19 17 00 02.0–3.2 37.37N 141.50E 39–27 3.7,3.6
JMA VI 19 17 00 02.3–.10 37.37N 141.30E 35–1 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ27.00000°,λ-35.00000°. NP2:ϕ_s244.00000°,δ75.00000°,λ-112.00000°. $M_0$4.98000×10^{14}
IDC Error ellipse: s-maj=33.9km s-min=17.5km az=89.0.
JMA Event type fe.
JMA VI 19 17 56 51.5–.10 39.49N 142.58E 27–1 3.6
NIED VI 19 17 56 00 39.50N 142.60E 17 3.4W **¶600644911**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ36.00000°,λ-173.00000°. NP2:ϕ_s166.00000°,δ86.00000°,λ-54.00000°. $M_0$1.64000×10^{14}
ISC VI 19 18 13 04.8–.70 36.77N–.03 141.16E–.04 28–4 4.5b,4.0s 219 0-99
NIED VI 19 18 13 00 36.80N 141.30E 5 4.6W,4.0s **¶16638786**
JMA VI 19 18 13 01.7–.10 36.77N 141.29E 30–2 4.7,4.0s
ISCJB VI 19 18 13 03.6–.59 36.82N–.03 141.18E–.03 27–3 4.5b,4.0s
MOS VI 19 18 13 04.5–1.4 36.86N 141.20E 33 4.6b,4.0s
IDC VI 19 18 13 05.7–2.4 36.79N 141.19E 38–20 4.1,4.1
BJI VI 19 18 13 05.3 36.58N 141.05E 43 4.8b,4.5b
NEIC VI 19 18 13 06.8–.81 36.88N 140.99E 37–7 4.7b,4.5b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ38.00000°,λ-102.00000°. NP2:ϕ_s25.00000°,δ53.00000°,λ-81.00000°. $M_0$1.03000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=141.8.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=94.8.
IDC Error ellipse: s-maj=15.7km s-min=11.2km az=105.0.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=4.9km az=142.0. Felt at Hitachinaka and Yokohama. Recorded [2 JMA] in Fukushima and Ibaraki.
ISC VI 19 18 54 29.6–.61 35.50N–.05 141.08E–.07 33 3.7b 33 0-84
ISCJB VI 19 18 54 27.8–.51 35.57N–.04 141.28E–.07 33 3.7b **¶17206541**
JMA VI 19 18 54 30.4–.10 35.57N 141.02E 37–1 3.4
IDC VI 19 18 54 31.8–2.1 35.45N 140.94E 51–19 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.1km az=167.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.4km s-min=11.3km az=82.0.
ISC VI 19 18 58 33.3–.55 36.92N–.04 141.48E–.04 25–3 4.5b,3.6s 174 1-126
NIED VI 19 18 58 00 36.90N 141.50E 32 4.2W,3.6s **¶16638789**
ISCJB VI 19 18 58 32.6–.70 36.92N–.03 141.49E–.04 32–4 4.4b,3.5s
JMA VI 19 18 58 33.8–.20 36.92N 141.39E 46–2 4.3,3.5s
MOS VI 19 18 58 33.0–1.0 36.98N 141.46E 33 4.7b,3.5s
BJI VI 19 18 58 34.9 37.03N 141.06E 39 4.8b,4.6b
NEIC VI 19 18 58 36.6–.68 37.00N 141.31E 49–6 4.6b,4.6b
IDC VI 19 18 58 36.9–1.7 36.91N 141.37E 53–15 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ26.00000°,λ-167.00000°. NP2:ϕ_s35.00000°,δ85.00000°,λ-65.00000°. $M_0$2.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.8km az=32.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=6.1km az=94.4.
NEIC Event type fe. Error ellipse: s-maj=8.7km s-min=5.3km az=137.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=12.3km s-min=9.3km az=93.0.
ISC VI 19 19 50 57.3–1.0 36.92N–.03 140.47E–.03 9–7 3.9b 51 0-91
NIED VI 19 19 50 00 36.90N 140.50E 5 3.8W **¶16730977**
ISCJB VI 19 19 50 57.8–.41 36.96N–.02 140.53E–.03 21–3 3.9b,3.5s
JMA VI 19 19 50 57.7 36.93N 140.48E 6–1 3.8,3.5s
NEIC VI 19 19 50 57.5–.52 36.87N 140.42E 10 4.3b,3.5s
IDC VI 19 19 50 58.8–4.6 36.98N 140.36E 16–27 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ45.00000°,λ-94.00000°. NP2:ϕ_s221.00000°,δ46.00000°,λ-86.00000°. $M_0$5.54000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.6km az=30.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s207.00000°,δ46.00000°,λ-103.00000°. NP2:ϕ_s45.00000°,δ46.00000°,λ-77.00000°. Principal axes: T Plg0.0000°,Azm306.0000°; N Plg9.0000°,Azm216.0000°; P Plg81.0000°,Azm36.0000°
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=9.0km az=97.0.
IDC Error ellipse: s-maj=27.9km s-min=14.7km az=81.0.
ISC VI 19 20 24 20.3–1.2 39.83N–.04 142.16E–.07 29–7 3.7b 28 0-72
NIED VI 19 20 24 00 39.80N 142.20E 38 3.5W **¶17206543**
ISCJB VI 19 20 24 18.1–.98 39.85N–.04 142.31E–.07 27–5 3.5b
JMA VI 19 20 24 19.3–.10 39.84N 142.23E 30–1 3.9
IDC VI 19 20 24 22.6–3.0 39.85N 142.21E 55–28 3.6,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ38.00000°,λ-150.00000°. NP2:ϕ_s94.00000°,δ72.00000°,λ-56.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.4km az=6.6.
JMA Event type fe.
IDC Error ellipse: s-maj=39.1km s-min=20.4km az=105.0.
ISC VI 19 20 51 17.0–2.3 37.17N–.06 141.61E–.09 6–12 19 1-57
IDC VI 19 20 51 15.6–2.0 37.06N 141.86E 0 3.2,3.2b **¶17206547**
ISCJB VI 19 20 51 17.7–1.5 37.19N–.06 141.62E–.08 17–9 3.1b,3.2b
JMA VI 19 20 51 19.9–.10 37.18N 141.48E 28–1 3.4,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=45.8km s-min=29.8km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.1km az=32.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 19 23 05 00.1–.10 36.35N 140.91E 40–1 3.5
NIED VI 19 23 05 00 36.40N 140.90E 35 3.6W **¶600645071**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ21.00000°,λ112.00000°. NP2:ϕ_s19.00000°,δ71.00000°,λ82.00000°. $M_0$2.67000×10^{14}
ISC VI 19 23 46 33.4–1.0 34.28N–.04 140.35E–.07 72–9 3.7b 28 1-54
IDC VI 19 23 46 30.7–1.2 33.51N 138.45E 0 3.9,3.8b **¶17206554**
ISCJB VI 19 23 46 32.6–.68 34.28N–.04 140.35E–.07 81–6 3.7b,3.8b
JMA VI 19 23 46 33.7–.20 34.30N 140.34E 65–3 3.2,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=17.2km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.6km az=165.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 20 00 15 32.3 36.51N 140.97E 16–1 3.8
NIED VI 20 00 15 00 36.50N 141.00E 5 3.4W **¶600645102**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ67.00000°,λ-21.00000°. NP2:ϕ_s123.00000°,δ71.00000°,λ-156.00000°. $M_0$1.61000×10^{14}
ISC VI 20 00 41 39.4–1.2 38.29N–.04 141.94E–.10 39–4 3.4b 32 0-62
NIED VI 20 00 41 00 38.30N 141.80E 59 3.9W **¶17206556**
IDC VI 20 00 41 33.5–1.2 38.30N 142.09E 0 3.7,3.6
ISCJB VI 20 00 41 38.7–.88 38.26N–.03 141.89E–.09 51–7 3.5b,3.6
JMA VI 20 00 41 40.2–.10 38.31N 141.79E 50–1 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ24.00000°,λ-97.00000°. NP2:ϕ_s122.00000°,δ66.00000°,λ-87.00000°. $M_0$7.48000×10^{14}
IDC Error ellipse: s-maj=27.7km s-min=20.0km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.1km az=9.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 20 00 50 52.7–2.1 39.32N–.04 142.59E–.08 7–11 3.1b 22 1-59
NIED VI 20 00 50 00 39.30N 142.50E 32 3.6W **¶600645116**
JMA VI 20 00 50 56.2–.10 39.27N 142.49E 33–1 4.0
IDC VI 20 00 51 01.1–4.2 39.20N 142.53E 82–37 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ27.00000°,λ-52.00000°. NP2:ϕ_s269.00000°,δ69.00000°,λ-107.00000°. $M_0$2.87000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=41.8km s-min=24.2km az=90.0.
ISC VI 20 01 34 49.6–1.1 35.38N–.04 141.16E–.05 24–7 4.4b 107 0-118
NIED VI 20 01 34 00 35.50N 141.00E 38 4.6W **¶16638794**
ISCJB VI 20 01 34 49.2–.78 35.35N–.03 141.10E–.04 31–5 4.5b,3.4s
BJI VI 20 01 34 50.0 35.30N 141.00E 35 4.9b,4.5s
JMA VI 20 01 34 51.2–.20 35.52N 140.97E 42–2 4.4,4.5s
NEIC VI 20 01 34 51.5–.30 35.36N 141.02E 35 4.6b,4.5s
IDC VI 20 01 34 53.5–1.8 35.44N 140.87E 53–18 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ14.00000°,λ-173.00000°. NP2:ϕ_s128.00000°,δ88.00000°,λ-76.00000°. $M_0$8.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=5.1km az=165.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=5.9km az=140.0. Recorded [1 JMA] in Chiba and Ibaraki.
IDC Error ellipse: s-maj=18.8km s-min=10.6km az=91.0.
ISC VI 20 01 42 42.2–.79 35.48N–.04 140.95E–.08 33 3.9b 23 0-70

NIED VI 20 01 42 00 35.50N 140.90E 41 4.0W **¶17206559**
JMA VI 20 01 42 43.5–.20 35.52N 140.94E 38–1 3.5
IDC VI 20 01 42 46.1–2.6 35.42N 140.73E 62–22 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ19.00000°,λ141.00000°. NP2:ϕ_s335.00000°,δ78.00000°,λ75.00000°. $M_0$1.33000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.7km s-min=12.6km az=81.0.
ISC VI 20 01 46 35.9–.30 35.45N–.03 140.91E–.04 33 4.7b,3.9s 304 0-146
NIED VI 20 01 46 00 35.50N 141.00E 44 4.8W,3.9s **¶16633292**
BJI VI 20 01 46 32.8 35.30N 140.94E 38 4.9b,4.8b
ISCJB VI 20 01 46 34.1–.18 35.36N–.03 140.87E–.03 33 4.7b,3.9s
JMA VI 20 01 46 35.9–.10 35.52N 140.94E 40–1 4.6,3.9s
MOS VI 20 01 46 37.9–1.0 35.42N 140.77E 67 4.8b,3.9s
IDC VI 20 01 46 38.7–1.5 35.44N 140.73E 59–14 4.5,4.4
NEIC VI 20 01 46 38.5–.56 35.43N 140.72E 56–5 4.7b,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ22.00000°,λ106.00000°. NP2:ϕ_s339.00000°,δ69.00000°,λ84.00000°. $M_0$1.69000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.3km az=152.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.8km az=115.9.
IDC Error ellipse: s-maj=14.5km s-min=8.4km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=125.0. Felt at Chiba and Tokyo. Recorded [3 JMA] in Chiba and Ibaraki.
ISC VI 20 02 03 39.3–1.1 36.41N–.07 140.60E–.07 53–7 3.5b 22 0-56
ISCJB VI 20 02 03 38.4–.86 36.39N–.07 140.63E–.08 58–5 3.8s,3.4b **¶600645133**
JMA VI 20 02 03 39.4–.10 36.42N 140.57E 54–1 3.4,3.4b
IDC VI 20 02 03 41.0–4.8 36.38N 140.48E 66–45 4.0,3.8s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=6.8km az=136.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s17.00000°,δ68.00000°,λ125.00000°. NP2:ϕ_s135.00000°,δ41.00000°,λ35.00000°. Principal axes: T Plg53.0000°,Azm330.0000°; N Plg32.0000°,Azm183.0000°; P Plg16.0000° ,Azm82.0000°
IDC Error ellipse: s-maj=49.2km s-min=27.4km az=99.0.
ISC VI 20 02 16 00.1–1.5 35.55N–.07 141.2E–.10 25 3.1b 14 0-56
IDC VI 20 02 15 54.6–3.6 35.71N 141.58E 0 3.5,3.4b **¶17206564**
JMA VI 20 02 16 02.4–.10 35.53N 140.94E 39–1 2.9,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=108.2km s-min=28.3km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 20 02 35 11.3–.10 35.51N 140.92E 37–1 2.8
¶603247129
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 20 02 35 31.0–.61 37.38N–.04 141.82E–.05 27–3 4.0b 58 1-90
NIED VI 20 02 35 00 37.40N 141.70E 32 3.8W **¶600645146**
ISCJB VI 20 02 35 30.8–.75 37.35N–.04 141.82E–.06 42–6 4.0b
JMA VI 20 02 35 32.6–.10 37.42N 141.70E 39–3 3.8
IDC VI 20 02 35 33.0–.76 37.36N 141.68E 41–5 4.1L,4.0
NEIC VI 20 02 35 33.7–1.0 37.36N 141.85E 51–9 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ29.00000°,λ92.00000°. NP2:ϕ_s301.00000°,δ61.00000°,λ89.00000°. $M_0$6.16000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.9km az=7.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=14.2km az=81.0.
NEIC Event type fe. Error ellipse: s-maj=11.0km s-min=9.2km az=90.0. Recorded [1 JMA] in Fukushima.
ISC VI 20 03 15 10.6–1.7 37.39N–.04 141.84E–.07 13–10 22 1-57
IDC VI 20 03 15 09.7–1.5 37.28N 142.06E 0 3.5,3.3 **¶17206569**
JMA VI 20 03 15 14.3–.10 37.42N 141.71E 40–2 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=53.6km s-min=25.8km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 20 04 07 44.1–.10 37.32N 141.16E 63–1 3.6
¶600645169
JMA Event type fe.
JMA VI 20 04 14 53.0–.10 38.65N 142.16E 39–1 3.5
NIED VI 20 04 14 00 38.70N 142.20E 35 3.5W **¶600645174**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ53.00000°,λ-169.00000°. NP2:ϕ_s170.00000°,δ81.00000°,λ-37.00000°. $M_0$1.99000×10^{14}
JMA VI 20 05 53 57.7–.10 39.92N 142.41E 39–1 3.5
¶600645203
ISC VI 20 07 55 41.0–1.1 36.80N–.04 140.59E–.04 10–9 21 0-57
ISCJB VI 20 07 55 40.4–1.8 36.78N–.03 140.62E–.06 10–14 3.4b **¶17206583**
IDC VI 20 07 55 40.4–2.3 36.61N 140.58E 0 3.8,3.5
JMA VI 20 07 55 41.6 36.80N 140.54E 8–1 3.4,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.6km az=29.3.
IDC Error ellipse: s-maj=44.0km s-min=26.8km az=48.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s178.00000°,δ55.00000°,λ-77.00000°. NP2:ϕ_s336.00000°,δ37.00000°,λ-108.00000°. Principal axes: T Plg9.0000°,Azm259.0000°; N Plg11.0000°,Azm351.0000°; P Plg76.0000° ,Azm130.0000°
ISC VI 20 11 55 17.2–1.8 36.46N–.06 140.93E–.08 14–9 14 0-56
ISCJB VI 20 11 55 14.6–1.4 36.40N–.05 141.05E–.07 5–7 3.5b **¶17206594**
IDC VI 20 11 55 16.5–1.5 36.20N 140.87E 0 3.5,3.3
JMA VI 20 11 55 16.8–.10 36.48N 140.96E 15–1 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.6km az=43.1.
IDC Error ellipse: s-maj=28.9km s-min=18.1km az=3.0.
ISC VI 20 12 04 27.5–2.1 39.20N–.05 142.57E–.09 24–14 3.7b 30 1-63
NIED VI 20 12 04 00 39.20N 142.50E 29 3.7W **¶17206596**
ISCJB VI 20 12 04 28.1–1.1 39.22N–.04 142.6E–.10 42–11 3.6b
JMA VI 20 12 04 28.3–.10 39.24N 142.52E 28–1 4.0
IDC VI 20 12 04 32.3–2.6 39.27N 142.52E 68–24 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ31.00000°,λ-34.00000°. NP2:ϕ_s264.00000°,δ73.00000°,λ-117.00000°. $M_0$3.96000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=5.8km az=18.6.
IDC Error ellipse: s-maj=29.6km s-min=14.4km az=102.0.
ISC VI 20 12 42 22.6–1.7 37.51N–.04 141.95E–.06 2–10 3.5b 33 1-89
NIED VI 20 12 42 00 37.50N 141.90E 8 3.6W **¶17206598**
ISCJB VI 20 12 42 22.8–1.6 37.50N–.04 141.98E–.04 13–11 3.5b
JMA VI 20 12 42 24.3–.20 37.51N 141.90E 25–3 4.1
IDC VI 20 12 42 28.3–2.9 37.44N 142.01E 41–29 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ41.00000°,λ-138.00000°. NP2:ϕ_s70.00000°,δ64.00000°,λ-57.00000°. $M_0$2.74000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.8km az=170.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=18.2km az=97.0.
JMA VI 20 14 50 22.9–.10 36.79N 141.30E 29–1 2.7
¶600645476
JMA VI 20 17 12 02.8–.10 37.62N 141.62E 49–2 3.6
¶600645596
ISC VI 20 20 26 22.7–1.5 38.06N–.04 141.98E–.08 33–4 3.4b 31 1-82
IDC VI 20 20 26 15.6–2.2 38.34N 142.51E 0 3.8,3.8s **¶17206622**
JMA VI 20 20 26 25.1–.10 38.12N 141.78E 56–1 3.7,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=56.2km s-min=27.7km az=83.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 20 21 27 51.1–.10 36.38N 140.58E 54–1 2.8
¶600645743
JMA Event type fe.
ISC VI 20 22 26 38.9–1.3 37.05N–.04 141.29E–.08 42–11 3.4b 29 0-57
NIED VI 20 22 26 00 37.10N 141.10E 44 3.8W **¶600645790**
ISCJB VI 20 22 26 37.7–.81 37.02N–.04 141.34E–.08 49–6 3.5b
JMA VI 20 22 26 39.9–.10 37.06N 141.14E 51–1 3.8
IDC VI 20 22 26 42.8–2.6 36.89N 141.12E 84–24 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ10.00000°,λ104.00000°. NP2:ϕ_s45.00000°,δ80.00000°,λ87.00000°. $M_0$4.77000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.3km s-min=5.5km az=16.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=13.0km az=65.0.
ISC VI 20 23 10 03.4–1.1 40.09N–.04 142.43E–.07 46–9 4.2b 72 0-81
BJI VI 20 23 09 32.9 39.49N 146.35E 8 4.7b,4.6s **¶603482802**
NEIC VI 20 23 09 38.8–.26 39.15N 146.33E 35 4.7b,4.6s
NIED VI 20 23 10 00 40.10N 142.40E 38 4.1W,4.6s
ISCJB VI 20 23 10 01.7–.72 40.16N–.04 142.47E–.07 50–5 4.3b,3.0s
JMA VI 20 23 10 01.9–.10 40.15N 142.46E 35–1 4.0,3.0s
IDC VI 20 23 10 04.9–2.3 40.15N 142.48E 67–20 4.0,3.8
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=153.0. Recorded [1 JMA] in Aomori and Iwate.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ17.00000°,λ61.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ98.00000°. $M_0$1.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.1km az=12.5.
JMA Event type fe.
IDC Error ellipse: s-maj=20.3km s-min=14.3km az=111.0.
ISC VI 21 04 39 51.0–.76 38.65N–.05 142.02E–.07 50–6 4.1b 55 1-89
NIED VI 21 04 39 00 38.70N 142.00E 47 4.1W **¶16638821**
ISCJB VI 21 04 39 50.4–.75 38.71N–.05 141.99E–.08 56–5 4.2b
JMA VI 21 04 39 50.9–.10 38.67N 142.02E 45–1 4.1
IDC VI 21 04 39 51.2–.70 38.62N 142.00E 50–6 4.0,4.0
NEIC VI 21 04 39 51.9–.73 38.72N 142.00E 54–6 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ32.00000°,λ40.00000°. NP2:ϕ_s35.00000°,δ70.00000°,λ116.00000°. $M_0$1.62000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.8km az=28.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=12.3km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=124.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC VI 21 05 16 60.0–.77 38.54N–.05 141.94E–.07 49–5 3.9b 39 0-62
ISCJB VI 21 05 16 59.7–.65 38.56N–.04 141.84E–.08 62–5 3.8b **¶600646052**
JMA VI 21 05 17 00.9 38.58N 141.73E 61–1 4.0
NIED VI 21 05 17 00 38.60N 141.80E 59 4.0W
IDC VI 21 05 17 01.4–.79 38.42N 141.91E 70–7 4.0,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.0km s-min=5.8km az=21.9.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ45.00000°,λ-177.00000°. NP2:ϕ_s317.00000°,δ88.00000°,λ-45.00000°. $M_0$9.68000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=11.4km az=109.0.
ISC VI 21 05 21 21.0–2.0 38.26N–.04 142.10E–.09 24–15 3.5b 21 1-58
NIED VI 21 05 21 00 38.30N 142.10E 41 3.7W **¶17206656**
IDC VI 21 05 21 19.4–1.4 37.89N 143.19E 0 3.8L,3.6
ISCJB VI 21 05 21 20.3–1.3 38.24N–.05 142.15E–.07 28–8 3.4b,3.6
JMA VI 21 05 21 21.6–.10 38.31N 142.12E 36–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ47.00000°,λ-117.00000°. NP2:ϕ_s84.00000°,δ49.00000°,λ-64.00000°. $M_0$4.12000×10^{14}
IDC Error ellipse: s-maj=39.4km s-min=26.4km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=7.7km az=8.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 21 05 36 58.7–1.0 35.67N–.05 140.77E–.08 49–9 3.8b 23 0-75
NIED VI 21 05 36 00 35.70N 140.60E 47 4.0W **¶17206658**
ISCJB VI 21 05 36 58.2–.62 35.69N–.04 140.7E–.10 59–5 3.8b,3.2s
IDC VI 21 05 36 58.8–2.4 35.64N 140.69E 49–23 3.9,3.8
JMA VI 21 05 36 59.2–.10 35.72N 140.62E 47–1 3.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ14.00000°,λ68.00000°. NP2:ϕ_s15.00000°,δ77.00000°,λ95.00000°. $M_0$1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=7.0km az=170.1.
IDC Error ellipse: s-maj=32.5km s-min=17.7km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ80.00000°,λ86.00000°. NP2: ϕ_s212.00000°,δ11.00000°,λ113.00000°. Principal axes: T Plg55.0000°,Azm273.0000° ; N Plg4.0000°,Azm9.0000°; P Plg35.0000°,Azm102.0000°
ISC VI 21 08 33 44.6–1.7 36.89N–.05 141.36E–.08 25–12 3.4b 24 0-57
NIED VI 21 08 33 00 36.90N 141.20E 32 3.5W **¶600646164**
ISCJB VI 21 08 33 44.5–1.0 36.90N–.04 141.35E–.08 38–11 3.3b
JMA VI 21 08 33 46.0–.10 36.93N 141.18E 49–1 3.5
IDC VI 21 08 33 47.5–2.8 36.83N 141.35E 54–27 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s89.00000°,δ33.00000°,λ-53.00000°. NP2:ϕ_s227.00000°,δ64.00000°,λ-111.00000°. $M_0$2.36000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.3km az=7.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=13.1km az=59.0.
ISC VI 21 08 49 42.0–.40 35.65N–.03 141.38E–.03 25–2 5.5b,5.0s 1429 0-161
NIED VI 21 08 49 00 35.90N 141.50E 17 5.3W,5.0s **¶603244174**
IDC VI 21 08 49 37.8–.37 35.64N 141.45E 0 5.1,5.1
BJI VI 21 08 49 37.6 35.74N 141.34E 13 5.4s,5.3b
JMA VI 21 08 49 39.9–.20 35.76N 141.47E 21–2 5.5,5.3b
NEIC VI 21 08 49 40.5–.07 35.62N 141.31E 15 5.5b,5.4W
GCMT VI 21 08 49 40.5–.20 35.76N 141.32E 20–0 5.2W,5.4W
MOS VI 21 08 49 41.6–.85 35.69N 141.35E 32 5.6b,5.3s
ISCJB VI 21 08 49 41.0–.45 35.65N–.02 141.36E–.01 29–3 5.4b,5.0s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ18.00000°,λ-86.00000°. NP2:ϕ_s183.00000°,δ72.00000°,λ-91.00000°. $M_0$1.02000×10^{17}
JMA Event type fe.
NEIC Event type fe. Felt [II] at Tokyo. Also felt at Chiba, Narita, Tatebayashi and Yachimata. Recorded [3 JMA] in Chiba and Ibaraki. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.97 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$1.51 $M_{r\theta}$-0.04 $M_{\theta\phi}$0.70 $M_{\phi r}$-0.19 Best double couple: NP1: ϕ_s12.00000°,δ49.00000°,λ-97.00000°. NP2:ϕ_s203.00000°,δ41.00000°,λ-82.00000°. Principal axes: T 1.7400,Plg4.0000°,Azm107.0000°; N -0.7600,Plg5.0000°,Azm17.0000° ; P -0.9800,Plg83.0000°,Azm236.0000° $M_0$1.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c100; s96,c176;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.52±.19 $M_{\theta\theta}$0.08±.12; $M_{\phi\phi}$5.44±.14; $M_{r\theta}$2.17±.27; $M_{\theta\phi}$2.01±.09; $M_{\phi r}$5.54±.29; Best double couple: NP1:ϕ_s201.00000°,δ68.00000°,λ-88.00000°. NP2:ϕ_s16.00000° ,δ22.00000°,λ-95.00000°. Principal axes: T 8.6100,Plg23.0000°,Azm289.0000° ; N -0.5830,Plg2.0000°,Azm20.0000°; P -8.0300,Plg67.0000°,Azm114.0000° $M_0$8.32000×10^{16}
ISCJB Event type fe.
ISC VI 21 10 53 46.0–1.3 38.80N–.04 141.71E–.08 67–8 3.8b 29 0-59
ISCJB VI 21 10 53 45.2–.80 38.79N–.04 141.67E–.09 74–4 3.8b **¶17206671**
JMA VI 21 10 53 46.0 38.78N 141.62E 71–1 3.4
IDC VI 21 10 53 50.6–3.5 39.43N 139.66E 0 3.9b,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=6.2km az=15.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s157.00000°,δ84.00000°,λ35.00000°. NP2:ϕ_s63.00000°,δ55.00000°,λ172.00000°. Principal axes: T Plg29.0000°,Azm26.0000°; N Plg54.0000°,Azm166.0000°; P Plg19.0000° ,Azm285.0000°
IDC Error ellipse: s-maj=102.1km s-min=24.0km az=71.0.
JMA VI 21 13 10 31.4–.10 37.18N 141.39E 48–1 3.6
NIED VI 21 13 10 00 37.20N 141.40E 26 3.2W **¶600646322**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ31.00000°,λ178.00000°. NP2:ϕ_s165.00000°,δ89.00000°,λ59.00000°. $M_0$7.87000×10^{13}
ISC VI 21 13 59 10.4–1.1 36.95N–.06 141.2E–.10 35 3.5b 18 0-61
NIED VI 21 13 59 00 36.90N 141.30E 8 3.6W **¶600646348**
IDC VI 21 13 59 05.5–1.1 36.87N 141.31E 0 3.6,3.5
JMA VI 21 13 59 07.8–.10 36.92N 141.27E 30–1 3.7,3.5
ISCJB VI 21 13 59 08.6–.86 36.93N–.05 141.22E–.09 35 3.5b,3.5
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ41.00000°,λ-54.00000°. NP2:ϕ_s185.00000°,δ58.00000°,λ-118.00000°. $M_0$2.79000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
ISC VI 21 14 30 58.7–.57 35.25N–.04 140.46E–.04 45–4 4.4b,3.5s 144 0-148
NIED VI 21 14 30 00 35.40N 140.40E 53 4.6W,3.5s **¶16646382**
BJI VI 21 14 30 52.8 35.13N 140.79E 35 4.8b,4.4b
MOS VI 21 14 30 55.2–1.5 35.25N 140.57E 32 4.5b,4.4b
IDC VI 21 14 30 59.0–1.4 35.26N 140.45E 50–13 4.0,4.0
NEIC VI 21 14 30 58.1–.61 35.30N 140.45E 39–5 4.6b,4.0
ISCJB VI 21 14 30 58.5–.30 35.28N–.03 140.43E–.03 57–2 4.3b,3.4s
JMA VI 21 14 30 59.0–.20 35.38N 140.45E 54–2 4.3,3.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ8.00000°,λ14.00000°. NP2:ϕ_s5.00000°,δ88.00000°,λ98.00000°. $M_0$9.24000×10^{15}
MOS Error ellipse: s-maj=9.3km s-min=5.6km az=103.4.
IDC Error ellipse: s-maj=15.0km s-min=6.4km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=5.4km az=129.0. Felt at Chiba, Niiza, Yokohama and Yokosuka. Recorded [2 JMA] in Chiba.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=4.5km az=25.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 21 16 54 24.0–1.1 36.60N–.06 141.81E–.08 19 3.6b 16 1-57
IDC VI 21 16 54 20.7–2.0 36.62N 142.11E 0 3.6,3.6 **¶17206686**
JMA VI 21 16 54 24.4–.20 36.65N 141.95E 62 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=45.0km s-min=23.3km az=80.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 21 17 53 01.6–1.1 35.72N–.06 141.57E–.08 25 3.4b 18 1-60
IDC VI 21 17 52 59.0–1.7 35.70N 141.70E 0 3.6,3.5 **¶17206690**
ISCJB VI 21 17 53 00.4–.85 35.77N–.05 141.60E–.08 25 3.4b,3.5
JMA VI 21 17 53 02.9–.20 35.79N 141.41E 24–2 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=45.0km s-min=21.4km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.4km az=165.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 21 18 41 43.1–1.2 35.74N–.06 141.43E–.09 25 3.7b 19 0-60
IDC VI 21 18 41 38.5–1.7 35.72N 141.75E 0 3.7b,3.7 **¶17206693**
ISCJB VI 21 18 41 40.8–.85 35.74N–.05 141.54E–.07 25 3.7b,3.3s
JMA VI 21 18 41 42.5–.30 35.76N 141.42E 24–3 3.4,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=19.6km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.4km az=162.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 21 19 03 55.7–1.9 38.99N–.04 142.46E–.07 11–11 3.9b,3.6s 37 1-88
NIED VI 21 19 03 00 39.00N 142.40E 35 4.1W,3.6s **¶17206695**
ISCJB VI 21 19 03 55.6–.99 38.98N–.03 142.50E–.06 21–6 3.8b,3.7s
JMA VI 21 19 03 57.4–.10 39.03N 142.41E 30–2 4.1,3.7s
IDC VI 21 19 03 59.8–2.8 38.94N 142.41E 40–26 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ49.00000°,λ-139.00000°. NP2:ϕ_s134.00000°,δ60.00000°,λ-49.00000°. $M_0$1.37000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.9km az=17.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=15.0km az=100.0.
ISC VI 21 20 26 58.2–2.3 37.28N–.07 141.5E–.10 33–4 3.5b 15 0-57
IDC VI 21 20 26 57.5–2.2 37.87N 141.19E 0 3.5,3.5b **¶17206698**
JMA VI 21 20 26 59.5–.10 37.29N 141.38E 46–1 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=28.9km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 21 21 02 59.2–.87 35.67N–.06 141.57E–.07 25 3.7b 22 1-59
NIED VI 21 21 02 00 35.80N 141.40E 17 3.8W **¶17206700**
IDC VI 21 21 02 55.6–1.1 35.60N 141.70E 0 3.8,3.8
ISCJB VI 21 21 02 57.0–.70 35.69N–.05 141.67E–.08 25 3.6b,3.8
JMA VI 21 21 02 58.9–.20 35.77N 141.45E 21–2 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s319.00000°,δ13.00000°,λ-148.00000°. NP2:ϕ_s197.00000°,δ83.00000°,λ-79.00000°. $M_0$6.36000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=15.9km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.6km az=180.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 21 21 15 59.9–.37 36.26N–.03 141.81E–.03 24–2 4.9b,4.6s 679 1-152
NIED VI 21 21 15 00 36.30N 141.80E 14 4.8W,4.6s **¶600646587**
IDC VI 21 21 15 55.8–.49 36.21N 141.88E 0 5.0,4.9
BJI VI 21 21 15 58.2 36.40N 141.59E 21 5.1b,5.0b
JMA VI 21 21 15 58.6–.30 36.29N 141.85E 73 5.0,5.0b
NEIC VI 21 21 16 00.7–.12 36.23N 141.72E 27 4.9b,5.0b
ISCJB VI 21 21 16 00.7–.35 36.27N–.02 141.74E–.02 38–2 4.9b,4.5s
MOS VI 21 21 16 01.2–.78 36.57N 141.71E 31 5.3b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ17.00000°,λ96.00000°. NP2:ϕ_s21.00000°,δ73.00000°,λ88.00000°. $M_0$1.87000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=102.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=149.0. Recorded [2 JMA] in Ibaraki.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=135.2.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=111.7.
ISC VI 21 21 22 25.5–2.3 36.24N–.04 141.94E–.07 27–17 4.2b 81 1-147
NIED VI 21 21 22 00 36.30N 141.90E 20 4.0W **¶16720967**
IDC VI 21 21 22 21.3–.76 36.26N 142.04E 0 4.1,4.1L
ISCJB VI 21 21 22 22.6–1.2 36.22N–.03 142.06E–.05 23–8 4.2b,4.1L
NEIC VI 21 21 22 24.6–1.5 36.24N 142.05E 21–10 4.5b,4.1L
JMA VI 21 21 22 24.7–.20 36.30N 141.90E 65 3.9,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ28.00000°,λ87.00000°. NP2:ϕ_s22.00000°,δ62.00000°,λ92.00000°. $M_0$1.27000×10^{15}
IDC Error ellipse: s-maj=20.9km s-min=16.2km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=168.9.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.0km az=102.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 21 21 52 40.7–1.7 38.84N–.05 142.1E–.10 45–13 3.8b 24 0-67
NIED VI 21 21 52 00 38.90N 142.00E 50 3.9W **¶17206702**
IDC VI 21 21 52 32.9–2.1 39.10N 142.73E 0 3.9,3.9
ISCJB VI 21 21 52 40.9–1.1 38.87N–.04 142.0E–.10 55–7 3.8b,3.9
JMA VI 21 21 52 42.0–.10 38.89N 141.97E 50–1 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ38.00000°,λ65.00000°. NP2:ϕ_s213.00000°,δ56.00000°,λ108.00000°. $M_0$7.87000×10^{14}
IDC Error ellipse: s-maj=55.9km s-min=24.1km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=16.9km s-min=7.1km az=9.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 21 21 56 09.4–.89 37.00N–.03 140.63E–.04 15–7 3.6b 23 0-57
ISCJB VI 21 21 56 09.5–.56 37.00N–.03 140.70E–.05 19–5 3.5b **¶17206703**
JMA VI 21 21 56 10.1 37.00N 140.61E 9–1 3.7
IDC VI 21 21 56 14.7–5.0 37.11N 140.60E 54–42 3.5,3.5L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.9km az=10.4.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s303.00000°,δ57.00000°,λ-57.00000°. NP2:ϕ_s73.00000°,δ46.00000°,λ-130.00000°. Principal axes: T Plg6.0000°,Azm10.0000°; N Plg27.0000°,Azm103.0000°; P Plg62.0000°,Azm268.0000°
IDC Error ellipse: s-maj=37.4km s-min=21.7km az=46.0.
ISC VI 22 00 27 25.9–1.4 36.29N–.06 141.9E–.10 26 3.5b 18 1-56
NIED VI 22 00 27 00 36.30N 141.80E 17 3.7W **¶17206713**
ISCJB VI 22 00 27 24.1–.98 36.30N–.06 141.98E–.09 26 3.6b
JMA VI 22 00 27 25.1–.20 36.29N 141.82E 74–5 3.5
IDC VI 22 00 27 31.7–5.6 36.09N 141.50E 66–43 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ43.00000°,λ153.00000°. NP2:ϕ_s15.00000°,δ72.00000°,λ51.00000°. $M_0$3.95000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=8.7km az=22.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=51.5km s-min=12.1km az=66.0.
ISC VI 22 00 57 18.4–2.2 37.34N–.05 141.45E–.06 2–13 3.6b 27 0-147
NIED VI 22 00 57 00 37.40N 141.30E 20 3.7W **¶600646691**
ISCJB VI 22 00 57 18.8–1.3 37.33N–.04 141.51E–.07 17–8 3.6b
IDC VI 22 00 57 18.0–.81 37.35N 141.47E 0 3.8,3.7L
JMA VI 22 00 57 21.9–.20 37.35N 141.31E 31–1 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ49.00000°,λ-125.00000°. NP2:ϕ_s203.00000°,δ52.00000°,λ-57.00000°. $M_0$4.44000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=5.9km az=23.8.
IDC Error ellipse: s-maj=22.0km s-min=17.5km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 01 39 34.4–1.2 39.17N–.05 142.22E–.09 54–9 4.1b 37 0-88
NIED VI 22 01 39 00 39.20N 142.20E 53 4.1W **¶17206717**
ISCJB VI 22 01 39 33.7–.76 39.19N–.04 142.19E–.10 60–5 4.0b
JMA VI 22 01 39 34.5 39.18N 142.18E 52–1 4.0
IDC VI 22 01 39 38.8–2.4 39.14N 142.05E 96–22 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ30.00000°,λ82.00000°. NP2:ϕ_s216.00000°,δ60.00000°,λ94.00000°. $M_0$1.41000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=6.7km az=17.3.
JMA Event type fe.
IDC Error ellipse: s-maj=19.3km s-min=14.1km az=76.0.
ISC VI 22 03 17 41.9–3.1 37.78N–.04 141.87E–.06 8–20 3.7b,3.4s 34 1-146
NIED VI 22 03 17 00 37.80N 141.80E 11 3.8W,3.4s **¶17206721**
IDC VI 22 03 17 40.8–.85 37.73N 142.04E 0 4.3L,4.0
ISCJB VI 22 03 17 42.2–1.0 37.75N–.03 141.92E–.06 19–7 3.6b,3.5s
JMA VI 22 03 17 44.2–.10 37.79N 141.81E 32–3 4.1,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s267.00000°,δ51.00000°,λ-156.00000°. NP2:ϕ_s161.00000°,δ72.00000°,λ-41.00000°. $M_0$5.02000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=15.4km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=21.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 22 03 49 07.1–.10 38.47N 142.23E 41–1 3.5 ¶600646793
JMA Event type fe.
ISC VI 22 04 28 07.2–1.9 37.53N–.05 141.59E–.09 27–12 26 1-58
IDC VI 22 04 28 01.1–2.5 37.65N 141.89E 0 3.4,3.4b **¶600646824**
JMA VI 22 04 28 09.8–.10 37.52N 141.38E 50–1 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=48.5km s-min=37.4km az=40.0.
JMA Event type fe.
ISC VI 22 05 18 39.7–2.1 37.38N–.04 141.62E–.07 2–13 3.6b 27 1-90
NIED VI 22 05 18 00 37.40N 141.60E 5 3.6W **¶17206723**
IDC VI 22 05 18 39.6–.80 37.29N 141.65E 0 3.8,3.7
ISCJB VI 22 05 18 40.0–1.8 37.36N–.03 141.64E–.05 14–12 3.9s,3.6b
JMA VI 22 05 18 41.2–.20 37.41N 141.58E 23–2 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ49.00000°,λ-51.00000°. NP2:ϕ_s7.00000°,δ54.00000°,λ-126.00000°. $M_0$3.26000×10^{14}
IDC Error ellipse: s-maj=25.5km s-min=17.0km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.6km az=13.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 05 32 20.7–2.2 36.28N–.05 141.86E–.08 8–12 3.9b 27 1-56
NIED VI 22 05 32 00 36.30N 141.90E 20 3.8W **¶17206725**
IDC VI 22 05 32 17.0–1.3 36.35N 142.37E 0 3.9,3.9L
JMA VI 22 05 32 21.7–.30 36.30N 141.95E 67 3.7,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ25.00000°,λ121.00000°. NP2:ϕ_s13.00000°,δ69.00000°,λ77.00000°. $M_0$6.21000×10^{14}
IDC Error ellipse: s-maj=27.4km s-min=24.1km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 22 05 47 20.0–2.0 37.44N–.06 141.70E–.07 2–12 3.5b 25 1-90
NIED VI 22 05 47 00 37.40N 141.60E 5 3.7W **¶17206726**
IDC VI 22 05 47 19.8–1.1 37.49N 141.73E 0 3.8,3.6
ISCJB VI 22 05 47 21.1–1.3 37.38N–.05 141.70E–.08 17–8 3.6b,3.3s
JMA VI 22 05 47 22.6–.20 37.40N 141.59E 24–2 3.6,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ30.00000°,λ-95.00000°. NP2:ϕ_s217.00000°,δ60.00000°,λ-87.00000°. $M_0$3.45000×10^{14}
IDC Error ellipse: s-maj=28.1km s-min=22.9km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.5km az=29.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 06 56 54.0–.78 36.53N–.08 141.80E–.07 19 3.7b 18 1-147
NIED VI 22 06 56 00 36.60N 141.50E 26 3.8W **¶600646894**
IDC VI 22 06 56 51.2–.78 36.52N 141.98E 0 3.9,3.8L
ISCJB VI 22 06 56 52.1–.68 36.48N–.06 141.86E–.06 19 3.6b,3.0s
JMA VI 22 06 56 57.1–.10 36.58N 141.50E 38–3 3.6,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ28.00000°,λ-82.00000°. NP2:ϕ_s201.00000°,δ63.00000°,λ-94.00000°. $M_0$5.94000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=18.8km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.3km az=174.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 08 23 24.5–2.2 36.56N–.07 141.80E–.09 8–13 3.7b 23 1-147
NIED VI 22 08 23 00 36.50N 141.90E 23 3.6W **¶600646944**
IDC VI 22 08 23 24.0–1.3 36.58N 141.73E 0 3.7,3.7L
JMA VI 22 08 23 25.4–.50 36.46N 141.86E 29 3.5,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ32.00000°,λ-111.00000°. NP2:ϕ_s198.00000°,δ60.00000°,λ-78.00000°. $M_0$2.83000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=19.3km az=62.0.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISC VI 22 10 16 01.6–1.3 38.59N–.06 141.98E–.10 48–10 3.8b 31 1-76
NIED VI 22 10 16 00 38.60N 141.90E 50 4.0W **¶600647019**
ISCJB VI 22 10 16 01.5–.85 38.64N–.05 141.9E–.10 61–5 3.8b
JMA VI 22 10 16 02.3–.10 38.64N 141.91E 49–1 3.9
IDC VI 22 10 16 03.9–2.5 38.63N 141.87E 67–21 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ21.00000°,λ52.00000°. NP2:ϕ_s27.00000°,δ74.00000°,λ103.00000°. $M_0$1.04000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=14.7km s-min=6.7km az=27.7.
JMA Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=18.0km az=125.0.
ISC VI 22 11 35 09.6–.94 35.54N–.04 141.10E–.05 33–6 4.4b,3.6s 131 0-148
NIED VI 22 11 35 00 35.60N 141.00E 47 4.5W,3.6s **¶16646388**
BJI VI 22 11 35 06.0 35.44N 141.16E 35 4.9b,4.7s
MOS VI 22 11 35 07.7–1.1 35.55N 141.14E 33 4.6b,4.7s
ISCJB VI 22 11 35 08.1–.54 35.55N–.03 141.14E–.05 36–4 4.3b,3.6s
JMA VI 22 11 35 09.6–.10 35.56N 141.03E 38–1 3.9,3.6s
NEIC VI 22 11 35 10.0–.67 35.52N 141.09E 36–5 4.6b,3.6s
IDC VI 22 11 35 11.2–1.6 35.47N 140.97E 45–15 4.2,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ20.00000°,λ100.00000°. NP2:ϕ_s9.00000°,δ71.00000°,λ87.00000°. $M_0$6.79000×10^{15}
MOS Error ellipse: s-maj=10.4km s-min=6.0km az=115.8.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.7km az=11.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.0km az=111.0. Felt at Chiba. Recorded [1 JMA] in Chiba.
IDC Error ellipse: s-maj=18.6km s-min=9.4km az=90.0.
ISC VI 22 13 50 55.7–1.4 38.81N–.06 142.2E–.20 36–5 3.5b 23 0-63
IDC VI 22 13 50 50.1–1.2 38.63N 142.51E 0 3.6,3.4 **¶600647176**
ISCJB VI 22 13 50 54.5–1.3 38.78N–.05 142.2E–.10 42–12 3.4b,3.4
JMA VI 22 13 50 54.5–.10 38.79N 142.20E 36–1 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=24.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=7.3km az=20.7.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 22 14 28 57.7–.42 40.01N–.03 142.91E–.03 34–1 5.3s,5.2b 1221 1-161
NIED VI 22 14 28 00 40.10N 142.90E 32 5.6W,5.2b **¶16644204**
IDC VI 22 14 28 52.7–.41 40.03N 142.91E 0 5.3,5.3s
JMA VI 22 14 28 55.7–.20 40.06N 142.91E 23–2 5.5,5.3s
ISCJB VI 22 14 28 57.0–.29 40.04N–.02 142.89E–.02 37–2 5.4s,5.2b
BJI VI 22 14 28 56.2 39.97N 142.79E 41 5.6s,5.5b
MOS VI 22 14 28 57.7–.82 40.24N 142.75E 34 5.6s,5.5b
NEIC VI 22 14 28 59.2–.36 40.05N 142.78E 43–3 5.3s,5.2b
GCMT VI 22 14 28 59.2–.10 40.13N 142.89E 32–0 5.7W,5.2b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s31.00000°,δ68.00000°,λ102.00000°. $M_0$2.74000×10^{17}
IDC Error ellipse: s-maj=14.0km s-min=10.6km az=97.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=151.9.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=104.9.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=142.0. Felt at Sendai. Recorded [3 JMA] in Aomori and Iwate.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c199; s128,c301;Duration: 1$_S$6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.28±.04 $M_{\theta\theta}$-0.12±.03; $M_{\phi\phi}$-2.16±.03; $M_{r\theta}$1.35±.05; $M_{\theta\phi}$-0.52±.02; $M_{\phi r}$2.75±.06; Best double couple: NP1:ϕ_s24.00000°,δ72.00000°,λ96.00000°. NP2:ϕ_s184.00000°,δ19.00000°,λ72.00000°. Principal axes: T 3.8520,Plg63.0000°,Azm303.0000°; N -0.0610,Plg6.0000°,Azm202.0000°; P -3.7880,Plg27.0000°,Azm109.0000° $M_0$3.82000×10^{17}
JMA VI 22 15 43 42.7–.20 40.11N 142.91E 17–2 3.5
¶600647230
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 22 16 01 04.2–.20 40.11N 142.91E 24–3 3.5
NIED VI 22 16 01 00 40.10N 142.90E 38 3.8W **¶600647240**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ38.00000°,λ18.00000°. NP2:ϕ_s33.00000°,δ79.00000°,λ127.00000°. $M_0$5.98000×10^{14}
ISC VI 22 18 19 01.6–.76 36.42N–.04 140.70E–.06 57–6 4.1b,3.1s 54 0-91
ISCJB VI 22 18 19 00.6–.44 36.41N–.03 140.67E–.06 62–3 4.0b,3.1s **¶603244177**
NIED VI 22 18 19 00 36.40N 140.60E 59 4.1W,3.1s
NEIC VI 22 18 19 01.9–.79 36.42N 140.71E 60–7 4.6b,3.1s
JMA VI 22 18 19 02.4–.10 36.43N 140.55E 53–1 3.8,3.1s
IDC VI 22 18 19 03.1–1.6 36.40N 140.61E 69–16 4.0,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.0km az=13.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ43.00000°,λ21.00000°. NP2:ϕ_s26.00000°,δ76.00000°,λ131.00000°. $M_0$1.64000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.5km az=92.0. Recorded [3 JMA] in Ibaraki.
JMA Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.3km az=88.0.
ISC VI 22 21 50 51.6–.30 39.98N–.02 142.46E–.02 32–1 6.7s,6.1b 2470 0-163
NIED VI 22 21 50 00 39.90N 142.60E 41 6.7W,6.1b **¶16645786**
BJI VI 22 21 50 46.6 39.85N 142.60E 20 7.0s,6.9
NEIC VI 22 21 50 48.0–.00 40.08N 142.77E 35 7.0s,6.9
MOS VI 22 21 50 49.9–.90 40.04N 142.35E 24 6.9s,6.3b
JMA VI 22 21 50 50.7 39.95N 142.59E 36–1 6.9,6.3b
ISCJB VI 22 21 50 52.8–.21 39.99N–.01 142.28E–.01 48–1 6.7s,6.1b
GCMT VI 22 21 50 52.3–.00 39.99N 142.51E 41–0 6.7W,6.1b
NEIC VI 22 21 50 52.4–.08 39.96N 142.21E 33 6.7s,6.7W
IDC VI 22 21 50 55.0–.79 39.96N 142.37E 60–6 6.7s,6.7
NEIC VI 22 21 51 11.2–.00 40.16N 142.30E 36 6.7s,6.7
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ20.00000°,λ92.00000°. NP2:ϕ_s14.00000°,δ70.00000°,λ89.00000°. $M_0$1.23000×10^{19}
NEIC Event type se. Moment Tensor Solution. s99 Moment tensor: Scale 10^{19}Nm; M_{rr}0.94 $M_{\theta\theta}$-0.04 $M_{\phi\phi}$-0.90 $M_{r\theta}$0.26 $M_{\theta\phi}$-0.13 $M_{\phi r}$1.17 Best double couple: NP1:ϕ_s12.00000°,δ71.00000°,λ92.00000°. NP2:ϕ_s185.00000°,δ19.00000°,λ84.00000°. Principal axes: T 1.5200,Plg63.0000°,Azm284.0000°; N -0.0200,Plg1.0000°,Azm190.0000°; P -1.5000,Plg25.0000°,Azm100.0000° $M_0$1.50000×10^{19}
MOS Event type fe. Error ellipse: s-maj=5.4km s-min=3.4km az=101.1. Fault plane solution: P-wave C169, D85 . Felt (II) at Yuzhno-Kuril'sk, Malokuril'skoye. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s360.00000°,δ84.00000°,λ90.00000°. NP2: ϕ_s180.00000°,δ6.00000°,λ90.00000°. Principal axes: T Plg51.0000°,Azm270.0000°; N Plg0.0000°,Azm180.0000°; P Plg39.0000°,Azm90.0000° $M_0$4.00000×10^{19}
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s346.00000°,δ62.00000°,λ81.00000°. NP2:ϕ_s186.00000°,δ29.00000°,λ108.00000°. Principal axes: T Plg71.0000°,Azm235.0000°; N Plg8.0000°,Azm350.0000°; P Plg17.0000°,Azm83.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=153.9.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c373; s141,c650;Duration: 5$_S$6 Moment tensor: Scale 10^{19} Nm; M_{rr}1.05±.01 $M_{\theta\theta}$0.04±.00; $M_{\phi\phi}$-1.09±.00; $M_{r\theta}$0.12±.01; $M_{\theta\phi}$-0.03±.00; $M_{\phi r}$1.12±.01; Best double couple: NP1:ϕ_s5.00000°,δ68.00000°,λ93.00000°. NP2:ϕ_s178.00000°,δ22.00000°,λ83.00000°. Principal axes: T 1.5360,Plg67.0000°,Azm280.0000°; N 0.0420,Plg2.0000°,Azm184.0000°; P -1.5730,Plg23.0000°,Azm93.0000° $M_0$1.55400×10^{19}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=150.0. Felt [V] at Misawa and [II] at Morioka. Also felt at Ichinoseki, Kawasaki, Kizukuri, Narita, Ota, Sendai, Tokyo and Yokohama. Felt [II] at Sapporo, Hokkaido. Also felt at Obihiro. Recorded [5L JMA] in Aomori and Iwate, Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. $M_0$1.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ25.00000°,λ59.00000°. NP2:ϕ_s10.00000°,δ69.00000°,λ103.00000°. Principal axes: T 0.9800,Plg63.0000°,Azm301.0000°; N 0.1200,Plg12.0000°,Azm185.0000°; P -1.1000,Plg23.0000°,Azm90.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s185.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s5.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm275.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm95.0000°
IDC Error ellipse: s-maj=7.3km s-min=5.7km az=100.0.
NEIC Event type se. Moment Tensor Solution. s146 Moment tensor: Scale 10^{19}Nm; M_{rr}1.00 $M_{\theta\theta}$-0.01 $M_{\phi\phi}$-0.99 $M_{r\theta}$0.14 $M_{\theta\phi}$-0.06 $M_{\phi r}$1.19 Best double couple: NP1:ϕ_s181.00000°,δ20.00000°,λ86.00000°. NP2:ϕ_s6.00000°,δ70.00000°,λ92.00000°. Principal axes: T 1.5600,Plg65.0000°,Azm279.0000°; N -0.0100,Plg1.0000°,Azm185.0000°; P -1.5600,Plg25.0000°,Azm95.0000° $M_0$1.60000×10^{19}
JMA VI 22 21 56 54.9–.10 39.99N 142.50E 32–2 3.7
¶600647421
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 22 22 00 33.9–.10 40.01N 142.46E 33–1 3.7
¶600647423
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 22 23 34 21.2 36.23N 141.07E 36–1 3.9
¶600647467
JMA Event type fe.
JMA VI 22 23 47 49.8 37.37N 141.14E 34–1 3.8
¶600647471
JMA Event type fe.
JMA VI 23 00 32 32.4–.10 40.01N 142.45E 37–1 3.6
¶600647485
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 23 01 06 32.3–.10 40.00N 142.47E 35–1 3.5
¶600647502
JMA Event type fe.
JMA VI 23 01 15 38.4–.10 36.25N 141.09E 32–1 3.5
¶600647508
JMA Event type fe.
ISC VI 23 03 11 48.6–1.3 39.94N–.05 142.2E–.10 44–9 3.9b 22 0-67
ISCJB VI 23 03 11 46.2–1.4 39.99N–.06 142.4E–.20 48–10 3.9b **¶17206793**
JMA VI 23 03 11 46.9–.10 39.98N 142.39E 40–1 3.8
IDC VI 23 03 11 52.0–3.0 39.91N 142.24E 88–25 3.8,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=20.0km s-min=8.5km az=167.8.
JMA Event type fe.
IDC Error ellipse: s-maj=51.5km s-min=22.4km az=93.0.
ISC VI 23 03 13 58.3–2.9 38.14N–.05 142.07E–.09 6–17 3.6b 19 1-62
IDC VI 23 03 13 54.2–1.7 38.37N 142.92E 0 3.6,3.6b **¶17206794**
JMA VI 23 03 14 02.3–.10 38.27N 142.11E 37–1 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=44.7km s-min=22.8km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 23 05 54 33.2–.10 40.09N 142.41E 35–1 3.5
NIED VI 23 05 54 00 40.10N 142.40E 50 3.6W **¶600647637**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ11.00000°,λ128.00000°. NP2:ϕ_s17.00000°,δ81.00000°,λ83.00000°. $M_0$2.53000×10^{14}
ISC VI 23 08 22 21.7–1.5 39.95N–.04 142.67E–.06 16–9 4.0b 37 1-116
JMA VI 23 08 22 24.7–.10 39.94N 142.48E 35–1 4.0 **¶16731295**
IDC VI 23 08 22 29.5–2.7 39.84N 142.39E 81–23 4.0,3.8
ISC Event type ke.
JMA Event type fe.
IDC Error ellipse: s-maj=21.3km s-min=15.0km az=107.0.
ISC VI 23 08 22 49.3–.43 36.99N–.04 141.25E–.04 53–3 4.6b,3.9s 272 0-155
NIED VI 23 08 22 00 37.10N 141.20E 11 4.7W,3.9s **¶17206807**
MOS VI 23 08 22 46.8–.92 37.00N 141.04E 40 4.8b,3.9s
NEIC VI 23 08 22 48.9–.30 37.22N 141.13E 35 4.7b,3.9s
ISCJB VI 23 08 22 48.5–.38 37.03N–.02 141.21E–.04 55–2 4.6b,3.8s
JMA VI 23 08 22 49.3–.10 37.07N 141.17E 50–1 4.5,3.8s
BJI VI 23 08 22 49.0 36.96N 141.08E 65 5.0b,4.7b
IDC VI 23 08 22 49.7–.41 37.01N 141.25E 54–3 4.4,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ53.00000°,λ-176.00000°. NP2:ϕ_s15.00000°,δ87.00000°,λ-37.00000°. $M_0$1.32000×10^{16}
MOS Error ellipse: s-maj=10.2km s-min=5.7km az=109.1.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=5.2km az=155.0. Felt at Ichinoseki and Niiza. Recorded [2 JMA] in Aomori and Iwate.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.7km az=31.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=10.0km s-min=7.1km az=139.0.
JMA VI 23 10 07 03.1–.10 38.26N 142.11E 41–1 3.5
NIED VI 23 10 07 00 38.30N 142.10E 50 3.7W **¶600647729**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ45.00000°,λ-102.00000°. NP2:ϕ_s82.00000°,δ46.00000°,λ-78.00000°. $M_0$4.72000×10^{14}
ISC VI 23 10 15 57.7–.87 39.97N–.04 142.43E–.05 42–7 4.3b 141 0-88
NIED VI 23 10 15 00 40.00N 142.40E 44 4.4W **¶16646399**
MOS VI 23 10 15 54.7–1.1 39.94N 142.27E 32 4.5b
ISCJB VI 23 10 15 56.6–.48 39.99N–.03 142.42E–.05 49–3 4.3b,3.6s
JMA VI 23 10 15 56.8–.10 39.97N 142.42E 38–1 4.3,3.6s
BJI VI 23 10 15 56.1 40.10N 142.20E 35 4.9b,4.6b
NEIC VI 23 10 15 57.2–.48 40.04N 142.42E 35 4.7b,4.6b
IDC VI 23 10 15 59.1–2.1 39.98N 142.36E 58–17 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ18.00000°,λ72.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ96.00000°. $M_0$4.72000×10^{15}
MOS Error ellipse: s-maj=11.8km s-min=6.3km az=99.6.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.4km az=25.5.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=6.6km az=121.0. Recorded [2 JMA] in Aomori.
IDC Error ellipse: s-maj=16.4km s-min=11.5km az=114.0.
ISC VI 23 10 35 01.6–.26 38.50N–.03 141.66E–.03 53–1 5.3b,4.6s 1326 0-160
MOS VI 23 10 34 57.8–.85 38.47N 141.44E 31 5.6b,4.6s **¶16646161**
BJI VI 23 10 34 57.8 38.37N 141.89E 54 5.3b,5.1b
NEIC VI 23 10 35 00.2–.09 38.48N 141.44E 35 5.3b,5.1b
NIED VI 23 10 35 00 38.50N 141.60E 59 5.3W,5.1b
GCMT VI 23 10 35 00.2–.10 38.55N 141.62E 57–0 5.3W,5.1b
IDC VI 23 10 35 01.8–.35 38.47N 141.52E 54–2 5.1,4.9
JMA VI 23 10 35 02.2 38.47N 141.61E 57–1 5.3,4.9
ISCJB VI 23 10 35 02.3–.19 38.51N–.02 141.49E–.02 67–1 5.2b,4.9
ISC Event type fe.
NEIC Event type fe. Felt at Chiba, Ichinoseki and Morioka. Recorded [4 JMA] in Iwate and Miyagi.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ23.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ69.00000°,λ99.00000°. $M_0$9.60000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c158; s113,c220;Duration: 1$_S$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.92±.02 $M_{\theta\theta}$-0.10±.01; $M_{\phi\phi}$-0.82±.01; $M_{r\theta}$0.33±.01; $M_{\theta\phi}$-0.24±.01; $M_{\phi r}$0.64±.01; Best double couple: NP1:ϕ_s23.00000°,δ64.00000°,λ95.00000°. NP2:ϕ_s191.00000°,δ26.00000°,λ79.00000°. Principal axes: T 1.1770,Plg70.0000°,Azm304.0000°; N -0.0360,Plg5.0000°,Azm201.0000°; P -1.1410,Plg19.0000°,Azm109.0000° $M_0$1.15900×10^{17}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s35.00000°,δ75.00000°,λ95.00000°. NP2:ϕ_s195.00000°,δ16.00000°,λ70.00000°. Principal axes: T Plg59.0000°,Azm313.0000°; N Plg5.0000°,Azm214.0000°; P Plg30.0000°,Azm121.0000°
ISCJB Event type fe.
ISC VI 23 11 13 55.2–2.0 39.18N–.04 142.39E–.09 26–12 3.6b 30 1-88
NIED VI 23 11 13 00 39.20N 142.40E 35 3.8W **¶600647748**
ISCJB VI 23 11 13 55.3–.99 39.16N–.04 142.40E–.09 39–9 3.6b
JMA VI 23 11 13 55.1–.10 39.19N 142.40E 29–1 3.9
IDC VI 23 11 13 59.3–2.4 39.12N 142.51E 66–22 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ27.00000°,λ-173.00000°. NP2:ϕ_s189.00000°,δ87.00000°,λ-63.00000°. $M_0$5.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=6.6km az=9.4.
JMA Event type fe.
IDC Error ellipse: s-maj=25.1km s-min=16.6km az=87.0.
ISC VI 23 11 20 46.3–3.1 37.20N–.05 141.66E–.08 4–20 19 1-49
IDC VI 23 11 20 45.4–1.9 37.22N 141.83E 0 3.3,3.3 **¶17206813**
ISCJB VI 23 11 20 46.4–2.0 37.20N–.05 141.81E–.07 15–15 3.2b,3.3
JMA VI 23 11 20 48.9–.20 37.16N 141.67E 36–3 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=24.6km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.3km az=5.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 23 16 25 29.9–2.0 36.08N–.05 141.19E–.07 5–13 3.5b 17 0-60
NIED VI 23 16 25 00 36.20N 141.00E 23 3.3W **¶17206823**
IDC VI 23 16 25 30.1–1.4 35.93N 141.05E 0 3.6,3.4
JMA VI 23 16 25 33.6 36.17N 141.00E 38–1 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ44.00000°,λ-87.00000°. NP2:ϕ_s4.00000°,δ46.00000°,λ-92.00000°. $M_0$9.26000×10^{13}
IDC Error ellipse: s-maj=29.1km s-min=26.3km az=84.0.
JMA Event type fe.
ISC VI 23 17 42 05.9–2.1 37.05N–.07 141.5E–.20 38–4 3.6b 17 1-57
JMA VI 23 17 42 08.4–.10 37.08N 141.16E 51–1 3.2 **¶17206825**
IDC VI 23 17 42 10.5–2.4 37.87N 140.25E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=57.9km s-min=27.4km az=76.0.
ISC VI 23 17 59 48.8–1.0 35.94N–.05 141.68E–.09 26 3.5b 19 1-60
ISCJB VI 23 17 59 47.5–.74 35.96N–.04 141.72E–.06 26 3.5b,2.5s **¶17206826**
JMA VI 23 17 59 50.5–.20 36.02N 141.54E 40–3 3.2,2.5s
IDC VI 23 17 59 50.6–3.1 35.86N 141.75E 40–28 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.0km az=11.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=33.1km s-min=18.5km az=89.0.
ISC VI 23 19 15 42.2–2.0 36.45N–.05 141.04E–.07 5–12 3.5b 19 0-60
NIED VI 23 19 15 00 36.50N 141.00E 5 3.6W **¶17206828**
ISCJB VI 23 19 15 40.4–1.2 36.43N–.04 141.12E–.06 5–7 3.5b
IDC VI 23 19 15 41.0–1.2 36.31N 141.15E 0 3.6,3.5
JMA VI 23 19 15 43.4 36.49N 140.96E 17–1 4.1,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ51.00000°,λ-140.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ-47.00000°. $M_0$3.03000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=6.8km az=13.9.
IDC Error ellipse: s-maj=29.8km s-min=21.1km az=81.0.
JMA Event type fe.
ISC VI 23 20 58 49.2–2.5 40.06N–.05 142.4E–.10 23–14 3.7b 23 0-60
NIED VI 23 20 58 00 40.00N 142.40E 53 3.6W **¶17206833**

JMA VI 23 20 58 49.9–.10 40.04N 142.41E 38–1 3.7
IDC VI 23 20 58 54.6–3.2 40.42N 141.02E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ30.00000°,λ5.00000°. NP2: ϕ_s333.00000°,δ88.00000°,λ120.00000°. $M_0$2.57000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=89.8km s-min=28.0km az=69.0.
ISC VI 23 21 05 41.9–2.2 38.37N–.05 142.35E–.09 5–12 19 1-62
ISCJB VI 23 21 05 44.0–1.6 38.36N–.05 142.35E–.09 19–9 3.5b **¶17206835**
IDC VI 23 21 05 43.4–13 38.23N 142.79E 0 3.7,3.6b
JMA VI 23 21 05 46.0–.10 38.47N 142.28E 27–2 3.9,3.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=8.2km az=8.6.
IDC Error ellipse: s-maj=274.3km s-min=58.5km az=8.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 23 22 22 31.5–.10 37.21N 141.20E 22–1 3.6
NIED VI 23 22 22 00 37.20N 141.20E 11 3.2W **¶600648095**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ46.00000°,λ-35.00000°. NP2:ϕ_s178.00000°,δ65.00000°,λ-130.00000°. $M_0$7.03000×10^{13}
ISC VI 24 01 00 15.4–1.1 36.40N–.05 140.70E–.07 52–8 3.5b 19 0-56
NIED VI 24 01 00 00 36.40N 140.60E 65 3.5W **¶17206840**
IDC VI 24 01 00 08.2–1.7 36.51N 140.87E 0 3.6,3.5
ISCJB VI 24 01 00 14.6–.72 36.40N–.05 140.68E–.08 59–5 3.4b,3.5
JMA VI 24 01 00 15.7–.10 36.37N 140.63E 53–1 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ19.00000°,λ138.00000°. NP2:ϕ_s14.00000°,δ77.00000°,λ75.00000°. $M_0$2.19000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=18.8km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.8km az=25.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s24.00000°,δ67.00000°,λ84.00000°. NP2:ϕ_s220.00000°,δ23.00000°,λ105.00000°. Principal axes: T Plg67.0000°,Azm283.0000°; N Plg6.0000°,Azm27.0000°; P Plg22.0000° ,Azm119.0000°
ISC VI 24 01 21 45.0–1.1 38.88N–.06 142.1E–.10 51 3.8b 22 0-67
NIED VI 24 01 21 00 38.90N 142.10E 47 3.7W **¶17206841**
ISCJB VI 24 01 21 43.5–.90 38.84N–.05 142.12E–.09 51 3.8b
JMA VI 24 01 21 44.3–.10 38.85N 142.09E 45–1 3.6
IDC VI 24 01 21 48.8–3.6 38.79N 141.95E 87–32 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ19.00000°,λ85.00000°. NP2:ϕ_s11.00000°,δ71.00000°,λ92.00000°. $M_0$4.58000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.8km az=7.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.7km s-min=23.0km az=86.0.
JMA VI 24 03 59 15.6–.10 38.42N 142.17E 31–2 3.9
¶600648204
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 24 06 54 31.5–1.6 36.01N–.04 141.13E–.05 13–9 4.1b 53 0-147
IDC VI 24 06 54 28.8–.69 35.93N 141.25E 0 4.0,3.9 **¶17206851**
ISCJB VI 24 06 54 31.0–.88 36.00N–.03 141.21E–.06 25–5 4.1b,3.9
JMA VI 24 06 54 31.2–.20 35.99N 141.16E 25–2 4.3,3.9
NEIC VI 24 06 54 33.2–2.5 35.96N 141.17E 28–18 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=16.0km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.5km az=1.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.1km s-min=8.0km az=100.0. Recorded [2 JMA] in Chiba and Ibaraki.
ISC VI 24 07 24 33.6–3.3 36.24N–.04 141.82E–.07 8–21 3.9b 29 1-147
NIED VI 24 07 24 00 36.30N 141.80E 23 4.1W **¶17206855**
JMA VI 24 07 24 35.0–.20 36.31N 141.85E 60 3.8
IDC VI 24 07 24 39.6–3.7 36.05N 141.83E 54–31 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ28.00000°,λ137.00000°. NP2:ϕ_s354.00000°,δ71.00000°,λ69.00000°. $M_0$1.51000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=30.8km s-min=11.7km az=72.0.
ISC VI 24 07 34 24.1–2.4 39.09N–.05 142.4E–.10 25–14 3.6b 21 1-59
IDC VI 24 07 34 17.9–2.9 39.28N 143.13E 0 3.4,3.3 **¶17206856**
ISCJB VI 24 07 34 23.7–1.4 39.09N–.05 142.44E–.09 31–6 3.2b,3.3
JMA VI 24 07 34 24.8–.10 39.12N 142.38E 33–1 3.0,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=72.9km s-min=34.1km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.6km az=10.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 24 09 08 03.3–1.4 34.46N–.03 140.32E–.05 8–10 3.7b 26 0-58
JMA VI 24 09 08 04.6–.10 34.49N 140.49E 38–2 3.7 **¶17206861**
IDC VI 24 09 08 05.9–1.2 34.03N 138.96E 0 3.9,3.7b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=41.3km s-min=16.0km az=62.0.
ISC VI 24 09 43 59.2–1.3 39.70N–.04 142.27E–.10 44–10 4.1b 30 0-75
NIED VI 24 09 43 00 39.70N 142.10E 41 4.0W **¶17206863**
ISCJB VI 24 09 43 58.0–.92 39.70N–.03 142.3E–.10 49–6 3.8b,3.6s
JMA VI 24 09 43 59.7 39.68N 142.12E 48–1 3.9,3.6s
IDC VI 24 09 44 00.2–2.7 39.77N 142.46E 69–22 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ12.00000°,λ93.00000°. NP2:ϕ_s15.00000°,δ78.00000°,λ89.00000°. $M_0$1.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.8km s-min=5.4km az=9.7.
JMA Event type fe.
IDC Error ellipse: s-maj=35.9km s-min=11.1km az=110.0.
ISC VI 24 12 04 48.2–1.8 39.22N–.04 142.32E–.07 1–11 26 1-59
IDC VI 24 12 04 46.5–1.5 38.91N 143.02E 0 3.5,3.3 **¶17206867**
ISCJB VI 24 12 04 49.1–1.4 39.20N–.03 142.40E–.07 12–7 3.4b,3.3
JMA VI 24 12 04 50.0–.10 39.21N 142.37E 30–1 3.8,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=57.9km s-min=25.3km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=18.6.
JMA VI 24 12 19 04.7–.10 39.91N 142.45E 37–1 3.5
NIED VI 24 12 19 00 39.90N 142.50E 44 4.0W **¶600648386**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s299.00000°,δ40.00000°,λ-70.00000°. NP2:ϕ_s93.00000°,δ52.00000°,λ-106.00000°. $M_0$1.05000×10^{15}
ISC VI 24 12 40 59.3–2.0 38.90N–.06 142.62E–.09 14–11 22 1-59
IDC VI 24 12 40 55.4–3.0 39.09N 143.08E 0 3.5,3.4b **¶17206868**
ISCJB VI 24 12 40 59.5–1.3 38.82N–.05 142.63E–.08 17–7 3.2b,3.4b
JMA VI 24 12 41 01.3–.20 38.87N 142.54E 26–2 3.7,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=37.7km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.6km az=14.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 24 14 46 53.2–.67 37.01N–.04 141.11E–.06 51–5 4.2b,3.3s 99 0-151
NIED VI 24 14 46 00 37.00N 141.10E 50 4.3W,3.3s **¶603244179**
ISCJB VI 24 14 46 52.0–.45 36.99N–.03 141.14E–.05 57–3 4.2b,3.5s
IDC VI 24 14 46 53.3–.59 37.01N 141.12E 55–5 4.1,4.0
JMA VI 24 14 46 53.3–.10 37.02N 141.09E 52–1 4.3,4.0
NEIC VI 24 14 46 54.5–.71 37.06N 141.02E 60–6 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ18.00000°,λ100.00000°. NP2:ϕ_s23.00000°,δ72.00000°,λ87.00000°. $M_0$2.70000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.9km az=26.9.
IDC Error ellipse: s-maj=10.4km s-min=7.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.9km s-min=6.3km az=135.0. Recorded [3 JMA] in Fukushima.
ISC VI 24 15 22 53.5–.71 37.10N–.05 141.26E–.07 52–5 3.9b 49 0-147
NIED VI 24 15 22 00 37.10N 141.10E 50 4.1W **¶16720984**
ISCJB VI 24 15 22 51.7–.66 37.09N–.04 141.25E–.08 55–4 3.9b,3.4s
JMA VI 24 15 22 53.4–.10 37.10N 141.14E 53–1 4.1,3.4s
IDC VI 24 15 22 54.3–.64 37.11N 141.11E 59–5 4.0,3.8

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ21.00000°,λ127.00000°. NP2:ϕ_s23.00000°,δ73.00000°,λ77.00000°. $M_0$1.59000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=5.3km az=17.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=12.5km az=92.0.
ISC VI 24 17 25 11.4–2.5 36.85N–.05 141.25E–.07 7–15 3.6b 28 0-57
NIED VI 24 17 25 00 36.90N 141.10E 47 3.8W **¶17206882**
IDC VI 24 17 25 10.0–1.2 36.76N 141.34E 0 4.0,4.0
JMA VI 24 17 25 15.5–.10 36.91N 141.06E 51–1 3.9,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ32.00000°,λ-132.00000°. NP2:ϕ_s257.00000°,δ67.00000°,λ-68.00000°. $M_0$4.99000×10^{14}
IDC Error ellipse: s-maj=28.6km s-min=19.1km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 24 17 39 28.6–.20 37.04N 141.51E 46–2 2.6
¶600648521
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 24 21 40 58.9–1.7 35.72N–.05 141.04E–.09 13–7 16 0-56
IDC VI 24 21 40 56.4–4.0 35.79N 141.20E 0 3.5,3.4b **¶17206891**
ISCJB VI 24 21 40 58.7–1.3 35.71N–.05 141.05E–.09 15–5 3.4b,3.4b
JMA VI 24 21 41 00.3–.10 35.68N 140.93E 13–1 3.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=116.9km s-min=30.7km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=7.6km az=171.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 24 22 21 54.2–1.8 35.63N–.09 141.8E–.10 22 8 1-60
IDC VI 24 22 21 51.0–3.0 35.62N 141.81E 0 3.3b,3.3 **¶17206892**
JMA VI 24 22 21 53.3–.10 35.66N 141.83E 26–2 2.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=67.0km s-min=29.3km az=65.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 24 23 52 15.7–1.2 39.94N–.04 142.28E–.09 44–9 3.8b 35 0-77
NIED VI 24 23 52 00 39.90N 142.30E 47 3.9W **¶17206894**
ISCJB VI 24 23 52 14.7–.82 39.94N–.04 142.3E–.10 52–6 3.8b
JMA VI 24 23 52 15.5–.10 39.94N 142.31E 42–1 3.7
IDC VI 24 23 52 18.1–2.5 39.97N 142.38E 72–21 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ18.00000°,λ75.00000°. NP2:ϕ_s22.00000°,δ73.00000°,λ95.00000°. $M_0$9.34000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.7km az=10.4.
IDC Error ellipse: s-maj=25.0km s-min=15.4km az=89.0.
JMA VI 25 00 32 22.3–.10 38.38N 142.18E 35–1 3.6
¶600648645
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 25 00 44 18.2–.60 39.70N–.03 142.17E–.05 48–4 4.5b,3.6s 210 0-95
NIED VI 25 00 44 00 39.70N 142.10E 50 4.5W,3.6s **¶16681352**
ISCJB VI 25 00 44 17.4–.40 39.70N–.03 142.13E–.05 57–2 4.4b,3.6s
JMA VI 25 00 44 18.1 39.68N 142.13E 48–1 4.3,3.6s
MOS VI 25 00 44 19.0–.98 39.81N 142.01E 65 4.8b,3.6s
BJI VI 25 00 44 19.1 39.75N 142.01E 67 4.9b,4.5b
NEIC VI 25 00 44 20.9–.60 39.76N 142.07E 72–4 4.7b,4.5b
IDC VI 25 00 44 20.2–1.7 39.66N 142.14E 70–14 4.2,4.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ19.00000°,λ73.00000°. NP2:ϕ_s16.00000°,δ72.00000°,λ96.00000°. $M_0$6.93000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.9km az=21.3.
JMA Event type fe.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=109.7.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=4.9km az=126.0. Felt at Misawa. Recorded [2 JMA] in Iwate.
IDC Error ellipse: s-maj=16.1km s-min=10.3km az=108.0.
JMA VI 25 01 55 27.6 37.70N 141.70E 51–1 3.7
NIED VI 25 01 55 00 37.70N 141.70E 65 3.5W **¶600648671**
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s68.00000°,δ60.00000°,λ154.00000°. NP2:ϕ_s172.00000°,δ68.00000°,λ33.00000°. $M_0$2.25000×10^{14}
ISC VI 25 02 42 40.5–1.1 35.93N–.06 141.07E–.08 31 3.4b 14 0-56
IDC VI 25 02 42 36.5–1.5 35.76N 141.13E 0 3.6,3.4 **¶17206897**
ISCJB VI 25 02 42 39.1–.89 35.92N–.04 141.10E–.08 31 4.3s,3.5b
JMA VI 25 02 42 39.8–.10 35.91N 141.04E 31–1 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=31.2km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.1km az=172.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 25 03 46 14.4–2.0 37.56N–.05 141.79E–.06 8–12 3.9b 38 1-146
NIED VI 25 03 46 00 37.60N 141.80E 23 3.8W **¶17206901**
ISCJB VI 25 03 46 14.0–1.0 37.56N–.04 141.95E–.05 17–7 3.8b
JMA VI 25 03 46 16.4–.10 37.58N 141.82E 26–3 4.1
IDC VI 25 03 46 18.1–5.7 37.56N 141.75E 31–42 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ13.00000°,λ27.00000°. NP2:ϕ_s343.00000°,δ84.00000°,λ101.00000°. $M_0$5.55000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.7km az=35.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.7km s-min=14.9km az=96.0.
ISC VI 25 07 06 02.2–.99 36.98N–.03 140.50E–.03 9–6 4.5b 169 0-151
IDC VI 25 07 06 00.4–.55 36.97N 140.48E 0 4.5,4.4 **¶16681195**
NIED VI 25 07 06 00 37.00N 140.60E 5 4.2W,4.4
JMA VI 25 07 06 02.2 36.96N 140.54E 6–1 4.5,4.4
ISCJB VI 25 07 06 02.2–.42 36.96N–.02 140.47E–.03 17–3 4.5b,3.2s
BJI VI 25 07 06 03.4 36.84N 140.53E 35 5.0b,4.6b
NEIC VI 25 07 06 06.5–.15 36.99N 140.33E 35 4.5b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=11.8km az=109.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ37.00000°,λ-95.00000°. NP2:ϕ_s256.00000°,δ53.00000°,λ-86.00000°. $M_0$2.25000×10^{15}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s244.00000°,δ54.00000°,λ-112.00000°. NP2:ϕ_s98.00000°,δ41.00000°,λ-63.00000°. Principal axes: T Plg7.0000°,Azm349.0000°; N Plg18.0000°,Azm257.0000°; P Plg71.0000° ,Azm100.0000°
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.2km az=28.5.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=138.0. Recorded [3 JMA] in Fukushima and Ibaraki.
ISC VI 25 07 23 27.0–1.7 39.92N–.04 142.47E–.08 31–11 3.7b 32 0-72
NIED VI 25 07 23 00 39.90N 142.50E 32 3.6W **¶17206910**
IDC VI 25 07 23 21.7–1.0 39.86N 142.46E 0 3.8,3.7
ISCJB VI 25 07 23 27.1–.92 39.92N–.04 142.5E–.10 50–8 3.6b,3.7
JMA VI 25 07 23 27.5–.10 39.93N 142.49E 35–1 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ30.00000°,λ88.00000°. NP2:ϕ_s17.00000°,δ60.00000°,λ91.00000°. $M_0$2.92000×10^{14}
IDC Error ellipse: s-maj=30.9km s-min=19.4km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=6.0km az=9.2.
ISC VI 25 07 44 44.7–.97 36.68N–.05 141.99E–.07 19 3.8b 24 1-75
NIED VI 25 07 44 00 36.70N 141.90E 20 3.8W **¶17206911**
IDC VI 25 07 44 41.6–1.9 36.63N 142.22E 0 3.9,3.9
ISCJB VI 25 07 44 44.0–.82 36.61N–.04 142.01E–.08 19 3.8b,3.9
JMA VI 25 07 44 46.6–.30 36.65N 141.88E 50 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ18.00000°,λ112.00000°. NP2:ϕ_s16.00000°,δ73.00000°,λ83.00000°. $M_0$6.55000×10^{14}
IDC Error ellipse: s-maj=50.1km s-min=24.6km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.4km az=177.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 25 08 25 32.5–1.6 37.11N–.03 141.01E–.06 0–10 3.9b 49 0-90
NIED VI 25 08 25 00 37.10N 140.90E 5 3.8W **¶16681199**
ISCJB VI 25 08 25 32.3–.79 37.08N–.03 141.03E–.05 9–4 3.9b
IDC VI 25 08 25 32.3–.81 37.07N 140.94E 0 4.0,3.9
JMA VI 25 08 25 34.3 37.10N 140.85E 9–1 4.1,3.9
NEIC VI 25 08 25 38.5–1.0 37.11N 140.94E 42–8 4.3b,3.9
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ47.00000°,λ-109.00000°. NP2:ϕ_s69.00000°,δ47.00000°,λ-71.00000°. $M_0$5.76000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.0km az=19.7.
IDC Error ellipse: s-maj=24.0km s-min=17.5km az=96.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s242.00000°,δ54.00000°,λ-97.00000°. NP2:ϕ_s74.00000°,δ36.00000°,λ-80.00000°. Principal axes: T Plg9.0000°,Azm337.0000°; N Plg6.0000°,Azm246.0000°; P Plg79.0000°,Azm123.0000°
NEIC Event type fe. Error ellipse: s-maj=13.2km s-min=7.4km az=128.0. Recorded [3 JMA] in Fukushima.

ISC	**VI**	**25 08 53 31.0–1.9**	**38.94N–.05**	**142.38E–.08**	**28–12**	**3.7b**	**25**	**1-73**
NIED	VI	25 08 53 00	39.00N	142.50E	32	3.5W		**¶17206915**
ISCJB	VI	25 08 53 28.3–1.3	38.90N–.05	142.56E–.08	22–7	3.6b,3.4s		
JMA	VI	25 08 53 29.8–.10	38.96N	142.49E	28–2	4.0,3.4s		
IDC	VI	25 08 53 34.3–2.8	38.95N	142.33E	63–24	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ23.00000°,λ-32.00000°. NP2:ϕ_s167.00000°,δ78.00000°,λ-110.00000°. $M_0$1.80000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.4km s-min=6.8km az=25.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=33.7km s-min=15.6km az=111.0.

ISC	**VI**	**25 09 59 31.3–.72**	**36.06N–.04**	**140.23E–.05**	**64–6**	**4.3b**	**92**	**0-148**
NIED	VI	25 09 59 00	36.00N	140.10E	62	4.1W		**¶600648799**
ISCJB	VI	25 09 59 30.4–.40	36.01N–.03	140.19E–.05	76–3	4.3b		
NEIC	VI	25 09 59 32.1–.54	36.05N	140.16E	75–4	4.7b		
JMA	VI	25 09 59 32.3–.10	36.02N	140.10E	63–1	3.7		
IDC	VI	25 09 59 32.5–1.3	35.94N	140.03E	78–11	4.1,3.9		
BJI	VI	25 09 59 33.9	36.24N	139.74E	74	5.0b,4.6b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ29.00000°,λ90.00000°. NP2:ϕ_s6.00000°,δ61.00000°,λ90.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.3km az=179.3.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=5.1km az=101.0. Felt at Kiryu, Nagareyama and Tokyo.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s1.00000°,δ59.00000°,λ83.00000°. NP2: ϕ_s194.00000°,δ31.00000°,λ101.00000°. Principal axes: T Plg75.0000°,Azm253.0000°; N Plg6.0000°,Azm5.0000°; P Plg14.0000°,Azm96.0000°
IDC Error ellipse: s-maj=17.0km s-min=6.9km az=66.0.

ISC	**VI**	**25 11 56 37.0–1.1**	**34.32N–.04**	**140.25E–.05**	**51–13**		**27**	**1-58**
IDC	VI	25 11 56 30.6–1.7	34.19N	140.77E	0	3.6,3.5		**¶17206920**
ISCJB	VI	25 11 56 35.9–.59	34.32N–.03	140.25E–.06	62–7	3.4b,3.5		
JMA	VI	25 11 56 36.9–.10	34.33N	140.25E	47–2	3.7,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=40.5km s-min=21.6km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=170.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**25 13 35 42.7–.78**	**39.88N–.04**	**142.50E–.09**	**40–8**	**4.0b,3.4s**	**42**	**0-88**
NIED	VI	25 13 35 00	39.90N	142.50E	44	4.1W,3.4s		**¶16720993**
ISCJB	VI	25 13 35 42.2–.86	39.90N–.03	142.49E–.09	49–7	3.9b,3.4s		
JMA	VI	25 13 35 42.2–.10	39.92N	142.50E	35–1	4.0,3.4s		
IDC	VI	25 13 35 44.9–2.1	39.90N	142.53E	61–18	3.9,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ36.00000°,λ105.00000°. NP2:ϕ_s354.00000°,δ56.00000°,λ79.00000°. $M_0$1.76000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.5km az=10.4.
JMA Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=11.8km az=108.0.

ISC	**VI**	**25 17 22 09.2–1.9**	**39.22N–.06**	**142.3E–.10**	**27**		**14**	**0-73**
NIED	VI	25 17 22 00	39.10N	142.40E	38	3.5W		**¶600648967**
JMA	VI	25 17 22 08.2–.10	39.12N	142.35E	32–1	3.6		
IDC	VI	25 17 22 13.4–2.4	32.87N	138.68E	244–36	3.4,3.0		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ16.00000°,λ-170.00000°. NP2:ϕ_s193.00000°,δ87.00000°,λ-74.00000°. $M_0$2.00000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=123.9km s-min=22.7km az=73.0.

ISC	**VI**	**25 17 46 34.7–1.2**	**38.19N–.08**	**142.64E–.09**	**14**	**3.4b**	**19**	**1-58**
NIED	VI	25 17 46 00	38.20N	142.60E	14	3.4W		**¶17206929**
IDC	VI	25 17 46 31.7–1.6	37.98N	142.87E	0	3.6,3.5b		
ISCJB	VI	25 17 46 33.3–1.0	38.13N–.08	142.71E–.09	14	3.5b,3.5b		
JMA	VI	25 17 46 34.8–.30	38.17N	142.61E	19–3	3.7,3.5b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ8.00000°,λ141.00000°. NP2:ϕ_s8.00000°,δ85.00000°,λ84.00000°. $M_0$1.45000×10^{14}
IDC Error ellipse: s-maj=40.6km s-min=33.1km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.1km az=149.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**VI**	**25 18 15 19.9–1.4**	**40.01N–.04**	**142.37E–.08**	**32–9**	**3.5b**	**27**	**0-67**
NIED	VI	25 18 15 00	40.00N	142.40E	32	3.5W		**¶17206933**
ISCJB	VI	25 18 15 19.6–1.1	40.01N–.05	142.4E–.10	37–11	3.4b		
JMA	VI	25 18 15 19.0–.10	40.04N	142.41E	38–1	3.8		
IDC	VI	25 18 15 22.4–2.7	39.80N	142.71E	64–25	3.4,3.3		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ34.00000°,λ-17.00000°. NP2:ϕ_s177.00000°,δ80.00000°,λ-123.00000°. $M_0$1.85000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=8.0km az=175.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=34.1km s-min=15.9km az=101.0.

ISC	**VI**	**25 18 30 39.7–1.2**	**36.40N–.05**	**141.43E–.08**	**19**	**3.5b**	**18**	**1-56**
IDC	VI	25 18 30 35.4–2.1	36.71N	141.90E	0	3.5,3.5b		**¶600649005**
JMA	VI	25 18 30 36.1–.20	36.29N	141.80E	69–5	2.8,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=47.1km s-min=28.1km az=56.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**VI**	**25 21 38 18.2–1.0**	**36.91N–.04**	**141.13E–.07**	**46–8**	**3.8b**	**40**	**0-147**
NIED	VI	25 21 38 00	36.90N	141.10E	68	4.2W		**¶600649098**
ISCJB	VI	25 21 38 16.7–.62	36.90N–.03	141.17E–.07	53–5	3.9b		
JMA	VI	25 21 38 18.1–.10	36.91N	141.08E	51–1	4.1		
IDC	VI	25 21 38 20.4–2.4	36.86N	141.01E	70–22	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ19.00000°,λ58.00000°. NP2:ϕ_s15.00000°,δ74.00000°,λ100.00000°. $M_0$2.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=5.1km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=20.2km s-min=10.5km az=68.0.

ISC	**VI**	**25 22 58 16.3–.90**	**36.00N–.05**	**140.17E–.06**	**66–7**	**3.5b**	**31**	**0-69**
NIED	VI	25 22 58 00	36.00N	140.10E	71	3.8W		**¶17206947**
ISCJB	VI	25 22 58 15.3–.55	35.96N–.04	140.19E–.06	74–4	3.4b		
IDC	VI	25 22 58 17.0–1.8	35.96N	140.22E	76–16	3.6,3.4		
JMA	VI	25 22 58 17.2	35.97N	140.09E	62–1	3.5,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ23.00000°,λ88.00000°. NP2:ϕ_s354.00000°,δ67.00000°,λ91.00000°. $M_0$5.32000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=172.4.
IDC Error ellipse: s-maj=22.2km s-min=8.8km az=64.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s1.00000°,δ65.00000°,λ89.00000°. NP2:ϕ_s184.00000°,δ25.00000°,λ92.00000°. Principal axes: T Plg70.0000°,Azm269.0000°; N Plg1.0000°,Azm2.0000°; P Plg20.0000°,Azm92.0000°

ISC	**VI**	**26 01 58 11.8–2.2**	**36.33N–.05**	**141.12E–.07**	**14–13**	**3.5b**	**20**	**1-60**
IDC	VI	26 01 58 09.1–1.2	36.50N	141.57E	0	3.6,3.4		**¶17206951**
JMA	VI	26 01 58 16.0–.10	36.29N	141.01E	45–1	3.4,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.1km s-min=25.6km az=90.0.
JMA Event type fe.

JMA	**VI**	**26 02 09 32.9–.10**	**39.96N**	**142.50E**	**36–1**	**3.6**		
NIED	VI	26 02 09 00	40.00N	142.50E	38	3.5W		**¶600649202**

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ24.00000°,λ154.00000°. NP2:ϕ_s352.00000°,δ80.00000°,λ68.00000°. $M_0$1.85000×10^{14}

ISC	**VI**	**26 02 42 53.1–.99**	**36.71N–.04**	**140.63E–.06**	**11–6**	**3.5b**	**18**	**0-147**
IDC	VI	26 02 42 51.3–.94	36.64N	140.58E	0	3.7,3.6		**¶17206953**
ISCJB	VI	26 02 42 52.0–.82	36.69N–.04	140.71E–.07	17–5	3.5b,3.1s		
JMA	VI	26 02 42 53.3	36.74N	140.58E	8–1	3.3,3.1s		

ISC Event type ke.
IDC Error ellipse: s-maj=22.4km s-min=15.5km az=1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.2km az=29.6.
JMA Event type fe.

ISC	**VI**	**26 03 00 14.7–1.6**	**36.64N–.04**	**141.16E–.08**	**33–10**		**20**	**0-57**
NIED	VI	26 03 00 00	36.60N	141.00E	59	3.6W		**¶17206954**
IDC	VI	26 03 00 13.9–9.3	36.69N	141.31E	35–67	3.7,3.7		
ISCJB	VI	26 03 00 14.2–.95	36.62N–.04	141.19E–.09	44–10	3.6b,3.4s		
JMA	VI	26 03 00 15.6–.10	36.63N	141.04E	47–1	3.8,3.4s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ22.00000°,λ90.00000°. NP2:ϕ_s23.00000°,δ68.00000°,λ90.00000°. $M_0$2.51000×10^{14}
IDC Error ellipse: s-maj=63.7km s-min=24.3km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.1km az=15.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**VI**	**26 03 06 29.1–.10**	**38.05N**	**141.91E**	**20–1**	**3.5**		
								¶600649224

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**26 03 17 52.4–2.1**	**37.57N–.05**	**141.87E–.08**	**5–12**	**3.6b**	**28**	**1-146**
NIED	VI	26 03 17 00	37.60N	141.90E	8	3.5W		**¶17206957**
ISCJB	VI	26 03 17 51.5–1.6	37.58N–.05	141.97E–.07	8–12	3.5b		
JMA	VI	26 03 17 52.8–.10	37.56N	141.93E	23–3	3.9		
IDC	VI	26 03 17 52.4–2.2	37.58N	141.84E	0	3.6b,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ40.00000°,λ-61.00000°. NP2:ϕ_s177.00000°,δ56.00000°,λ-112.00000°. $M_0$2.29000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.6km az=30.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=47.1km s-min=32.3km az=157.0.

ISC	**VI**	**26 10 11 35.3–.49**	**40.61N–.04**	**142.48E–.04**	**43–3**	**4.4b,3.7s**	**215**	**1-146**
NIED	VI	26 10 11 00	40.60N	142.50E	41	4.4W,3.7s		**¶16682705**
BJI	VI	26 10 11 31.9	40.69N	142.89E	57	4.9b,4.6b		
MOS	VI	26 10 11 32.8–1.1	40.62N	142.44E	33	4.8b,4.6b		
JMA	VI	26 10 11 33.6–.10	40.57N	142.55E	30–2	4.4,4.6b		
ISCJB	VI	26 10 11 34.7–.45	40.62N–.03	142.49E–.04	50–3	4.4b,3.7s		
NEIC	VI	26 10 11 34.7–.38	40.64N	142.51E	35	4.7b,3.7s		
IDC	VI	26 10 11 35.4–.65	40.58N	142.45E	46–5	4.2,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ23.00000°,λ54.00000°. NP2:ϕ_s27.00000°,δ72.00000°,λ104.00000°. $M_0$5.24000×10^{15}
MOS Error ellipse: s-maj=9.9km s-min=5.4km az=106.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.9km az=31.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=6.0km az=114.0. Recorded [1 JMA] in Aomori and Ibaraki. Also recorded [1 JMA] in southwestern Hokkaido.
IDC Error ellipse: s-maj=19.1km s-min=11.0km az=80.0.

JMA	**VI**	**26 10 16 54.7–.10**	**38.91N**	**142.34E**	**31–2**	**3.6**		
								¶600649376

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**VI**	**26 11 02 37.6–2.1**	**37.58N–.06**	**141.76E–.07**	**5–11**	**3.6b**	**25**	**1-146**
NIED	VI	26 11 02 00	37.60N	141.80E	5	3.6W		**¶17206975**
IDC	VI	26 11 02 37.0–1.1	37.41N	142.05E	0	3.6b,3.6		
JMA	VI	26 11 02 37.3–.10	37.57N	141.85E	16–1	3.6,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s91.00000°,δ56.00000°,λ-20.00000°. NP2:ϕ_s193.00000°,δ73.00000°,λ-144.00000°. $M_0$2.56000×10^{14}
IDC Error ellipse: s-maj=25.3km s-min=24.7km az=11.0.

ISC	**VI**	**26 11 43 12.3–3.5**	**36.31N–.05**	**141.91E–.07**	**5–22**	**3.5b**	**32**	**1-90**
NIED	VI	26 11 43 00	36.40N	141.80E	17	3.8W		**¶17206978**
IDC	VI	26 11 43 11.6–.90	36.30N	141.95E	0	3.7,3.6		
ISCJB	VI	26 11 43 13.3–1.8	36.31N–.04	141.95E–.06	23–14	3.5b,3.2s		
JMA	VI	26 11 43 15.4–.10	36.37N	141.78E	56–4	3.6,3.2s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ24.00000°,λ20.00000°. NP2:ϕ_s30.00000°,δ82.00000°,λ112.00000°. $M_0$5.45000×10^{14}
IDC Error ellipse: s-maj=22.6km s-min=18.5km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.1km az=23.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**26 11 51 34.5–1.3**	**38.04N–.05**	**142.78E–.09**	**25–8**	**3.5b**	**30**	**1-62**
NIED	VI	26 11 51 00	38.10N	142.70E	26	3.6W		**¶17206979**
JMA	VI	26 11 51 33.5–.10	38.06N	142.71E	25	3.7		
IDC	VI	26 11 51 35.8–4.8	38.04N	142.91E	36–37	3.6,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ16.00000°,λ23.00000°. NP2:ϕ_s64.00000°,δ84.00000°,λ105.00000°. $M_0$2.76000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=53.0km s-min=25.0km az=86.0.

JMA	**VI**	**26 12 16 32.0–.10**	**38.35N**	**142.31E**	**30–2**	**3.6**		
								¶600649399

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**26 12 29 05.5–1.2**	**38.31N–.04**	**141.94E–.09**	**56–10**	**4.0b**	**39**	**0-146**
ISCJB	VI	26 12 29 05.0–.73	38.34N–.04	141.86E–.09	66–5	3.9b		**¶600649401**
JMA	VI	26 12 29 06.1	38.37N	141.83E	59–1	3.9		
IDC	VI	26 12 29 08.0–2.6	38.32N	141.73E	78–23	4.0,3.9		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=5.5km az=16.3.
JMA Event type fe.
IDC Error ellipse: s-maj=24.7km s-min=15.4km az=84.0.

ISC	**VI**	**26 13 34 28.5–2.0**	**36.95N–.04**	**141.36E–.08**	**16–11**		**23**	**0-61**
ISCJB	VI	26 13 34 26.7–1.3	36.94N–.04	141.49E–.06	11–7	3.6b		**¶17206994**
IDC	VI	26 13 34 26.4–1.8	36.85N	141.52E	0	3.5,3.5b		
JMA	VI	26 13 34 29.7–.10	36.96N	141.31E	27–1	3.4,3.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.7km az=11.1.
IDC Error ellipse: s-maj=34.0km s-min=31.5km az=66.0.

JMA	**VI**	**26 16 50 33.1–.10**	**35.75N**	**140.92E**	**9–1**	**3.5**		
								¶600649538

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**26 20 10 29.0–.75**	**39.08N–.05**	**142.38E–.07**	**27**	**4.0b**	**42**	**1-81**
NIED	VI	26 20 10 00	39.20N	142.40E	29	4.1W		**¶16731556**
IDC	VI	26 20 10 24.4–.87	39.00N	142.41E	0	4.1,4.1b		
ISCJB	VI	26 20 10 27.0–.51	39.07N–.04	142.50E–.05	27	4.0b,4.1b		
JMA	VI	26 20 10 28.3–.10	39.16N	142.43E	32–1	3.8,4.1b		
NEIC	VI	26 20 10 32.5–1.2	39.04N	142.41E	64–10	4.4b,4.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ24.00000°,λ-108.00000°. NP2:ϕ_s173.00000°,δ68.00000°,λ-82.00000°. $M_0$1.66000×10^{15}
IDC Error ellipse: s-maj=23.0km s-min=18.0km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=37.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=16.4km s-min=9.2km az=119.0. Recorded [1 JMA] in Iwate and Miyagi.

ISC	**VI**	**27 02 06 41.8–1.2**	**40.00N–.05**	**142.34E–.08**	**42–11**	**3.6b**	**31**	**0-88**
NIED	VI	27 02 06 00	40.00N	142.40E	38	3.8W		**¶17207038**
ISCJB	VI	27 02 06 40.8–.77	40.04N–.04	142.40E–.08	47–7	3.6b		
JMA	VI	27 02 06 40.8–.10	40.04N	142.41E	38–1	3.9		
IDC	VI	27 02 06 43.3–2.7	40.04N	142.42E	59–24	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ14.00000°,λ37.00000°. NP2:ϕ_s4.00000°,δ81.00000°,λ101.00000°. $M_0$6.36000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=7.3km az=178.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=20.9km az=130.0.

ISC	**VI**	**27 02 49 10.7–2.2**	**38.10N–.05**	**142.55E–.08**	**14–12**	**3.8b,3.5s**	**31**	**1-74**
NIED	VI	27 02 49 00	38.20N	142.50E	32	3.7W,3.5s		**¶17207039**
JMA	VI	27 02 49 13.2–.10	38.16N	142.48E	34–2	4.0,3.5s		
IDC	VI	27 02 49 14.8–2.5	38.02N	142.68E	50–23	3.8,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ27.00000°,λ39.00000°. NP2:ϕ_s88.00000°,δ73.00000°,λ112.00000°. $M_0$4.04000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=35.6km s-min=23.6km az=132.0.
JMA VI 27 03 30 22.7 36.51N 140.95E 12–1 2.7 ¶600649804

JMA VI 27 09 30 25.9–.20 38.30N 142.24E 26–1 3.8
NIED VI 27 09 30 00 38.30N 142.20E 11 3.5W **¶600649958**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ36.00000°,λ-122.00000°. NP2:ϕ_s172.00000°,δ60.00000°,λ-69.00000°. $M_0$1.70000×10^{14}
ISC VI 27 09 43 46.2–.93 38.70N–.06 142.42E–.09 46–7 3.7b 33 1-90
NIED VI 27 09 43 00 38.70N 142.50E 44 3.9W **¶17207062**
JMA VI 27 09 43 44.9–.10 38.68N 142.45E 42–2 4.0
ISCJB VI 27 09 43 45.1–1.2 38.68N–.05 142.4E–.10 53–9 3.8b,3.8s
IDC VI 27 09 43 46.2–.93 38.60N 142.26E 47–7 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ24.00000°,λ88.00000°. NP2:ϕ_s212.00000°,δ66.00000°,λ91.00000°. $M_0$8.65000×10^{14}
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=15.5km s-min=7.2km az=10.5.
IDC Error ellipse: s-maj=20.9km s-min=18.6km az=75.0.
ISC VI 27 10 14 48.7–1.6 39.06N–.04 142.24E–.08 27–11 3.3b 28 0-59
NIED VI 27 10 14 00 39.10N 142.20E 44 3.6W **¶17207063**
ISCJB VI 27 10 14 49.2–.83 39.07N–.04 142.20E–.09 45–8 3.3b
JMA VI 27 10 14 49.8 39.09N 142.16E 45–1 3.6
IDC VI 27 10 14 51.8–2.6 38.99N 142.26E 58–26 3.4,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s278.00000°,δ43.00000°,λ-155.00000°. NP2:ϕ_s170.00000°,δ74.00000°,λ-50.00000°. $M_0$2.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.9km s-min=5.8km az=20.7.
JMA Event type fe.
IDC Error ellipse: s-maj=37.2km s-min=19.8km az=106.0.
ISC VI 27 10 29 15.6–1.6 36.91N–.04 140.82E–.09 1–11 3.6b 18 0-57
JMA VI 27 10 29 11.8–.10 36.95N 141.18E 25–1 3.2 **¶17207064**
ISCJB VI 27 10 29 12.5–1.3 36.90N–.03 141.06E–.08 1–6 3.4b,3.3s
IDC VI 27 10 29 20.2–8.1 36.68N 140.69E 23–44 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.6km az=6.6.
IDC Error ellipse: s-maj=54.0km s-min=27.0km az=66.0.
ISC VI 27 11 45 00.2–.82 36.76N–.07 142.00E–.06 19 3.6b 22 1-90
IDC VI 27 11 44 56.9–.99 36.70N 142.19E 0 3.8,3.6 **¶17207068**
ISCJB VI 27 11 44 57.6–.63 36.72N–.06 142.19E–.06 19 3.6b,3.6
JMA VI 27 11 44 57.7–.40 36.89N 142.15E 21 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=18.6km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.3km az=151.3.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC VI 27 12 21 32.8–1.1 35.88N–.05 141.30E–.08 26 3.6b 22 0-60
IDC VI 27 12 21 28.8–1.2 35.97N 141.50E 0 3.6,3.5 **¶17207073**
ISCJB VI 27 12 21 30.9–.77 35.88N–.05 141.42E–.07 26 3.6b,3.5
JMA VI 27 12 21 35.0–.10 35.83N 141.03E 35–1 2.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=19.5km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.9km az=155.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 27 12 29 27.3–.10 38.47N 142.23E 43–1 3.6 ¶600650024

ISC VI 27 13 04 14.1–1.6 36.35N–.05 140.95E–.06 25–13 18 0-60
IDC VI 27 13 04 14.4–6.2 36.64N 141.13E 56–41 3.4,3.3 **¶17207077**
JMA VI 27 13 04 15.0–.10 36.22N 140.88E 46–1 3.1,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=66.1km s-min=27.0km az=32.0.
JMA Event type fe.
JMA VI 27 13 54 42.5 39.64N 142.11E 48–1 3.5
NIED VI 27 13 54 00 39.60N 142.10E 47 3.6W **¶600650068**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ47.00000°,λ26.00000°. NP2:ϕ_s51.00000°,δ72.00000°,λ134.00000°. $M_0$2.45000×10^{14}
ISC VI 27 15 04 47.6–.74 35.85N–.03 141.05E–.05 12–4 4.5b,3.3s 166 0-148
NIED VI 27 15 04 00 35.90N 141.10E 11 4.2W,3.3s **¶16684567**
IDC VI 27 15 04 45.2–.54 35.77N 141.00E 0 4.3,4.3
ISCJB VI 27 15 04 46.6–.58 35.84N–.02 141.07E–.04 19–4 4.4b,3.4s
JMA VI 27 15 04 47.5–.10 35.82N 141.00E 18–1 4.5,3.4s
BJI VI 27 15 04 47.4 35.83N 141.06E 27 4.8b,4.6s
NEIC VI 27 15 04 48.5–2.0 35.86N 140.99E 19–12 4.7b,4.6s
MOS VI 27 15 04 49.7–.89 36.15N 140.95E 27 4.7b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ40.00000°,λ-110.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ-74.00000°. $M_0$2.12000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=11.9km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.2km az=11.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=122.0. Recorded [2 JMA] in Chiba, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=9.0km s-min=5.3km az=111.8.
ISC VI 27 16 02 38.4–.94 36.83N–.05 141.91E–.07 19 3.3b 17 1-59
IDC VI 27 16 02 35.8–1.4 36.74N 142.19E 0 3.5,3.5 **¶17207084**
ISCJB VI 27 16 02 37.1–.82 36.76N–.04 142.00E–.08 19 3.5s,3.3b
JMA VI 27 16 02 42.0–.30 36.92N 141.71E 57–4 2.9,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=23.0km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.9km az=4.1.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC VI 27 18 22 47.5–1.3 36.45N–.05 141.18E–.08 50–11 3.7b 31 1-60
NIED VI 27 18 22 00 36.50N 141.00E 71 3.8W **¶600650186**
ISCJB VI 27 18 22 46.9–.78 36.42N–.04 141.16E–.07 56–6 3.7b
IDC VI 27 18 22 46.5–2.9 36.59N 141.47E 47–26 3.7,3.7
JMA VI 27 18 22 48.7–.10 36.46N 141.01E 54–1 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ38.00000°,λ82.00000°. NP2:ϕ_s234.00000°,δ53.00000°,λ96.00000°. $M_0$5.74000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.2km az=15.6.
IDC Error ellipse: s-maj=33.3km s-min=17.3km az=78.0.
JMA Event type fe.
ISC VI 27 19 31 38.6–.85 35.71N–.05 140.79E–.07 47–7 3.8b 25 0-79
NIED VI 27 19 31 00 35.70N 140.80E 50 3.9W **¶17207094**
ISCJB VI 27 19 31 37.5–.55 35.69N–.04 140.80E–.07 55–4 3.7b
JMA VI 27 19 31 38.5–.10 35.73N 140.69E 47–1 3.2
IDC VI 27 19 31 39.1–2.6 35.62N 140.81E 55–23 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ18.00000°,λ91.00000°. NP2:ϕ_s18.00000°,δ72.00000°,λ90.00000°. $M_0$9.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.9km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s26.00000°,δ63.00000°,λ102.00000°. NP2: ϕ_s181.00000°,δ30.00000°,λ68.00000°. Principal axes: T Plg70.0000°,Azm321.0000° ; N Plg11.0000°,Azm200.0000°; P Plg17.0000°,Azm107.0000°
IDC Error ellipse: s-maj=25.5km s-min=8.5km az=67.0.
ISC VI 27 20 49 24.6–2.9 36.94N–.04 141.19E–.08 11–18 21 0-57
ISCJB VI 27 20 49 24.3–1.8 36.92N–.04 141.33E–.09 15–15 3.2b **¶17207098**
JMA VI 27 20 49 25.7–.10 36.95N 141.19E 26–1 3.7
IDC VI 27 20 49 26.6–2.7 36.43N 141.09E 0 3.4,3.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.3km az=4.9.
JMA Event type fe.
IDC Error ellipse: s-maj=56.5km s-min=31.6km az=39.0.
ISC VI 27 22 22 35.1–1.5 38.00N–.05 141.90E–.09 50–12 3.8b 38 1-73
NIED VI 27 22 22 00 38.00N 141.80E 44 3.9W **¶17207103**
ISCJB VI 27 22 22 34.6–.87 38.02N–.04 141.86E–.09 64–6 3.7b
IDC VI 27 22 22 35.4–2.5 38.00N 141.72E 50–22 3.7,3.5
JMA VI 27 22 22 36.2–.10 38.03N 141.77E 54–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ45.00000°,λ103.00000°. NP2:ϕ_s196.00000°,δ46.00000°,λ78.00000°. $M_0$7.01000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.8km az=19.3.
IDC Error ellipse: s-maj=26.4km s-min=12.8km az=89.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 28 01 35 25.9–.10 38.25N 142.02E 44–1 3.5 ¶600651284

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 28 05 18 55.0–1.1 35.58N–.04 140.04E–.06 72–9 25 0-55
ISCJB VI 28 05 18 54.2–.67 35.56N–.04 140.03E–.06 79–6 3.6b **¶17207115**
JMA VI 28 05 18 55.4–.20 35.62N 140.02E 65–2 2.7
IDC VI 28 05 18 59.9–1.2 35.17N 138.99E 86–12 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.1km az=153.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=64.9km s-min=6.2km az=68.0.
ISC VI 28 06 50 54.6–1.6 38.39N–.04 142.04E–.08 30–11 4.1b 34 1-150
NIED VI 28 06 50 00 38.40N 141.80E 53 4.1W **¶17207120**
IDC VI 28 06 50 49.9–1.1 38.33N 142.43E 0 4.2,4.1
ISCJB VI 28 06 50 55.9–.91 38.37N–.04 141.91E–.09 49–8 4.0b,4.1
JMA VI 28 06 50 57.1–.10 38.43N 141.79E 56–1 4.0,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ33.00000°,λ89.00000°. NP2:ϕ_s46.00000°,δ58.00000°,λ91.00000°. $M_0$1.50000×10^{15}
IDC Error ellipse: s-maj=26.7km s-min=23.3km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.2km az=16.6.
JMA Event type fe.
ISC VI 28 07 22 53.9–2.1 38.88N–.05 142.2E–.10 30–12 18 0-60
IDC VI 28 07 22 47.2–3.1 39.08N 142.75E 0 4.3,4.3s **¶17207123**
JMA VI 28 07 22 56.5–.10 38.86N 142.03E 46–1 3.5,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=71.3km s-min=40.6km az=66.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 28 07 29 01.8–1.4 36.37N–.04 141.05E–.06 23–12 22 0-56
IDC VI 28 07 28 57.6–2.8 36.37N 141.29E 0 3.5,3.4 **¶17207125**
ISCJB VI 28 07 29 01.9–.80 36.35N–.03 141.03E–.06 30–5 3.4b,3.4
JMA VI 28 07 29 02.4–.10 36.32N 141.00E 43–1 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=55.6km s-min=28.4km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=5.0km az=0.9.
JMA Event type fe.
ISC VI 28 08 11 07.6–1.0 38.40N–.04 142.00E–.08 51–9 3.6b 33 1-89
ISCJB VI 28 08 11 06.9–.80 38.40N–.04 141.94E–.09 61–7 3.5b **¶17207128**
IDC VI 28 08 11 06.6–2.6 38.38N 142.04E 42–26 3.6,3.6
JMA VI 28 08 11 08.7–.10 38.44N 141.83E 57–1 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.9km s-min=5.8km az=19.4.
IDC Error ellipse: s-maj=29.9km s-min=19.9km az=102.0.
JMA Event type fe.
ISC VI 28 08 27 02.0–1.5 37.35N–.03 141.27E–.06 13–9 3.5b 27 0-57
IDC VI 28 08 26 59.3–1.3 37.54N 141.66E 0 3.7,3.5 **¶17207130**
ISCJB VI 28 08 27 01.1–1.2 37.30N–.04 141.47E–.07 17–9 3.4b,3.5
JMA VI 28 08 27 03.5–.10 37.34N 141.31E 27–1 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=32.2km s-min=23.2km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.4km az=19.9.
JMA Event type fe.
JMA VI 28 09 13 10.8–.10 38.90N 142.50E 39–2 3.6 ¶600651473

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 28 13 22 58.1–1.6 38.19N–.05 142.13E–.09 43–14 4.2b,3.1s 54 1-146
NIED VI 28 13 22 00 38.20N 142.00E 47 4.1W,3.1s **¶16721024**
ISCJB VI 28 13 22 57.9–.68 38.19N–.03 142.01E–.07 59–5 4.3b,3.0s
JMA VI 28 13 22 58.6–.10 38.21N 142.00E 50–1 4.2,3.0s
NEIC VI 28 13 22 59.9–.61 38.21N 141.99E 61–5 4.9b,3.0s
IDC VI 28 13 23 00.5–2.3 38.17N 141.93E 65–21 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ21.00000°,λ112.00000°. NP2:ϕ_s196.00000°,δ70.00000°,λ82.00000°. $M_0$1.79000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=5.0km az=19.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=115.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=18.5km s-min=12.8km az=87.0.
JMA VI 28 13 54 14.4–.10 40.03N 142.41E 38–1 3.8
NIED VI 28 13 54 00 40.00N 142.40E 47 3.6W **¶600651745**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ13.00000°,λ-20.00000°. NP2:ϕ_s179.00000°,δ85.00000°,λ-102.00000°. $M_0$2.70000×10^{14}
ISC VI 28 16 17 14.1–2.3 37.09N–.05 141.30E–.08 17–14 23 0-57
NIED VI 28 16 17 00 37.10N 141.10E 68 3.9W **¶17207149**
IDC VI 28 16 17 10.9–2.0 36.93N 141.46E 0 3.9,3.8
JMA VI 28 16 17 17.4–.10 37.13N 141.06E 54–1 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ57.00000°. NP2:ϕ_s44.00000°,δ71.00000°,λ103.00000°. $M_0$8.01000×10^{14}
IDC Error ellipse: s-maj=34.0km s-min=28.4km az=80.0.
JMA Event type fe.
JMA VI 28 18 55 39.4–.10 37.49N 141.43E 39–1 3.9
NIED VI 28 18 55 00 37.50N 141.40E 50 3.9W **¶600651932**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ53.00000°,λ-170.00000°. NP2:ϕ_s282.00000°,δ82.00000°,λ-37.00000°. $M_0$8.86000×10^{14}
JMA VI 28 18 59 25.7–.30 38.57N 142.89E 17–4 3.5 ¶600651934

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 28 20 13 32.7–1.5 39.05N–.05 142.24E–.09 40–15 3.6b 28 0-59
NIED VI 28 20 13 00 39.10N 142.10E 47 3.6W **¶17207154**
ISCJB VI 28 20 13 32.5–1.0 39.09N–.05 142.2E–.10 50–7 3.6b
JMA VI 28 20 13 33.7–.10 39.11N 142.12E 46–1 3.6
IDC VI 28 20 13 35.1–2.8 39.06N 142.25E 67–24 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ19.00000°,λ58.00000°. NP2:ϕ_s25.00000°,δ74.00000°,λ101.00000°. $M_0$2.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.9km s-min=5.6km az=20.6.
JMA Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=17.3km az=106.0.
ISC VI 28 20 48 40.3–.57 36.60N–.04 141.58E–.05 26 4.1b 71 1-147
NIED VI 28 20 48 00 36.60N 141.50E 32 3.9W **¶16721026**
IDC VI 28 20 48 36.1–.84 36.59N 141.74E 0 4.0,3.9
ISCJB VI 28 20 48 38.3–.34 36.59N–.03 141.65E–.04 26 4.2b,3.9
JMA VI 28 20 48 41.9–.10 36.61N 141.40E 45–2 4.0,3.9
NEIC VI 28 20 48 41.8–.48 36.60N 141.61E 38–4 4.7b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ20.00000°,λ-85.00000°. NP2:ϕ_s186.00000°,δ70.00000°,λ-92.00000°. $M_0$7.39000×10^{14}
IDC Error ellipse: s-maj=22.3km s-min=16.1km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.8km az=23.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=4.2km az=117.0. Recorded [1 JMA] in Fukushima and Ibaraki.
JMA VI 29 03 46 58.0–.20 38.20N 142.47E 35–2 3.6
NIED VI 29 03 46 00 38.20N 142.50E 17 3.5W **¶600652180**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ20.00000°,λ-108.00000°. NP2:ϕ_s243.00000°,δ71.00000°,λ-83.00000°. $M_0$2.03000×10^{14}
ISC VI 29 03 58 36.1–1.5 38.88N–.06 142.1E–.10 48–10 4.0b 31 0-73
NIED VI 29 03 58 00 38.90N 142.00E 59 3.9W **¶17207165**
ISCJB VI 29 03 58 35.1–1.0 38.88N–.04 142.0E–.10 55–6 3.9b

JMA VI 29 03 58 36.5–.10 38.89N 141.97E 50–1 3.8
IDC VI 29 03 58 39.3–3.4 38.84N 141.95E 80–28 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s33.00000°,δ68.00000°,λ92.00000°. $M_0$6.87000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=6.2km az=15.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=30.4km s-min=19.4km az=74.0.
ISC VI 29 07 18 55.6–2.0 36.81N–.06 141.19E–.07 17–11 3.7b 28 0-147
NIED VI 29 07 18 00 36.80N 141.20E 11 4.0W **¶17207175**
IDC VI 29 07 18 52.8–.97 36.76N 141.12E 0 3.9,3.8b
ISCJB VI 29 07 18 55.3–1.1 36.80N–.05 141.20E–.07 28–5 3.7b,3.8b
JMA VI 29 07 18 55.7–.10 36.81N 141.16E 34–1 3.9,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ49.00000°,λ-56.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ-123.00000°. $M_0$9.77000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=22.9km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=6.3km az=36.7.
JMA Event type fe.
JMA VI 29 08 35 32.0–.10 37.43N 141.27E 26–1 3.6
NIED VI 29 08 35 00 37.40N 141.30E 32 3.5W **¶600652303**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ35.00000°,λ65.00000°. NP2:ϕ_s235.00000°,δ59.00000°,λ106.00000°. $M_0$1.78000×10^{14}
ISC VI 29 14 19 34.1–1.1 36.96N–.05 141.13E–.08 46–8 3.9b 36 0-74
NIED VI 29 14 19 00 37.00N 141.10E 50 3.8W **¶17207200**
ISCJB VI 29 14 19 32.3–.70 36.95N–.04 141.21E–.07 52–5 3.8b
JMA VI 29 14 19 33.8–.10 36.96N 141.07E 51–1 3.9
IDC VI 29 14 19 35.1–1.7 36.96N 141.12E 62–15 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ23.00000°,λ98.00000°. NP2:ϕ_s21.00000°,δ68.00000°,λ87.00000°. $M_0$6.57000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.9km s-min=5.4km az=20.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=10.2km az=88.0.
ISC VI 29 14 58 06.3–2.0 38.31N–.04 142.27E–.08 6–12 3.6b 24 1-62
NIED VI 29 14 58 00 38.40N 142.30E 29 3.6W **¶17207202**
ISCJB VI 29 14 58 07.7–1.3 38.38N–.05 142.36E–.08 25–8 3.5b
JMA VI 29 14 58 09.4–.10 38.44N 142.29E 35–2 3.9
IDC VI 29 14 58 11.4–3.5 38.27N 142.40E 42–33 3.6,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ42.00000°,λ-129.00000°. NP2:ϕ_s136.00000°,δ59.00000°,λ-60.00000°. $M_0$2.66000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.6km az=3.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=38.2km s-min=17.4km az=98.0.
JMA VI 29 15 52 14.1–.10 36.83N 141.10E 49–1 2.8
¶600652551
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 29 15 59 38.9 38.44N 141.84E 57–1 3.9
NIED VI 29 15 59 00 38.40N 141.80E 74 3.8W **¶600652564**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ33.00000°,λ110.00000°. NP2:ϕ_s360.00000°,δ59.00000°,λ78.00000°. $M_0$4.78000×10^{14}
ISC VI 29 17 09 31.8–1.1 38.17N–.04 141.77E–.07 44–10 3.9b 50 0-146
NIED VI 29 17 09 00 38.20N 141.60E 59 4.0W **¶600652598**
ISCJB VI 29 17 09 31.2–.62 38.18N–.03 141.74E–.07 53–5 3.9b,2.9s
JMA VI 29 17 09 32.9–.10 38.21N 141.60E 53–1 4.0,2.9s
IDC VI 29 17 09 32.5–1.6 38.16N 141.78E 49–16 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ44.00000°,λ92.00000°. NP2:ϕ_s195.00000°,δ46.00000°,λ88.00000°. $M_0$1.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=4.7km az=15.0.
JMA Event type fe.
IDC Error ellipse: s-maj=18.1km s-min=10.5km az=92.0.
ISC VI 29 17 49 47.7–.94 35.67N–.03 140.90E–.06 15–5 3.6b 24 0-59
NIED VI 29 17 49 00 35.70N 140.90E 8 3.7W **¶17207207**
IDC VI 29 17 49 46.0–1.6 35.62N 140.98E 0 3.6,3.5
ISCJB VI 29 17 49 46.2–.90 35.67N–.03 141.08E–.07 16–6 3.5b,3.5
JMA VI 29 17 49 48.5–.10 35.66N 140.86E 14–1 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ39.00000°,λ-75.00000°. NP2:ϕ_s165.00000°,δ52.00000°,λ-102.00000°. $M_0$4.66000×10^{14}
IDC Error ellipse: s-maj=34.1km s-min=18.8km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=5.0km az=177.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s177.00000°,δ70.00000°,λ-111.00000°. NP2:ϕ_s45.00000°,δ29.00000°,λ-46.00000°. Principal axes: T Plg22.0000°,Azm283.0000° ; N Plg19.0000°,Azm185.0000°; P Plg60.0000°,Azm57.0000°
ISC VI 29 17 57 55.3–1.7 36.06N–.05 141.25E–.09 26–11 3.6b 21 0-60
IDC VI 29 17 57 52.2–1.5 36.04N 141.33E 0 3.6,3.6b **¶17207208**
ISCJB VI 29 17 57 54.5–1.2 36.10N–.04 141.27E–.08 27–7 3.5b,3.6b
JMA VI 29 17 57 56.4–.10 36.03N 141.08E 40–1 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=33.6km s-min=17.9km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.6km az=172.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 29 18 23 05.2 36.70N 140.56E 5–1 2.8
¶600652631
JMA Event type fe.
JMA VI 29 18 42 57.2–.10 38.36N 142.35E 37–2 3.7
NIED VI 29 18 42 00 38.40N 142.40E 71 4.0W **¶600652643**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ7.00000°,λ78.00000°. NP2:ϕ_s226.00000°,δ83.00000°,λ91.00000°. $M_0$1.02000×10^{15}
ISC VI 29 19 52 02.4–1.9 36.59N–.04 140.91E–.06 12–13 3.5b 20 0-60
IDC VI 29 19 51 58.9–1.9 36.59N 141.28E 0 3.7,3.6 **¶17207217**
ISCJB VI 29 19 52 00.8–1.2 36.54N–.04 141.07E–.06 9–6 3.6b,3.6
NIED VI 29 19 52 00 36.60N 140.90E 5 3.5W,3.6
JMA VI 29 19 52 02.7–.10 36.55N 140.95E 19–2 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=48.1km s-min=20.6km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=6.4km az=14.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ53.00000°,λ-150.00000°. NP2:ϕ_s213.00000°,δ66.00000°,λ-41.00000°. $M_0$2.32000×10^{14}
JMA Event type fe.
JMA VI 29 22 04 41.0–.10 36.43N 140.55E 54–1 3.5
NIED VI 29 22 04 00 36.40N 140.50E 53 3.4W **¶600652693**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ36.00000°,λ77.00000°. NP2:ϕ_s357.00000°,δ55.00000°,λ99.00000°. $M_0$1.63000×10^{14}
ISC VI 29 22 14 36.1–.47 35.68N–.03 140.56E–.03 34–1 4.8b,4.1s 488 0-149
NIED VI 29 22 14 00 35.70N 140.70E 50 5.0W,4.1s **¶16686685**
BJI VI 29 22 14 29.3 35.54N 141.02E 29 4.9b,4.9b
MOS VI 29 22 14 35.2–.94 35.72N 140.48E 37 5.1b,4.1s
ISCJB VI 29 22 14 36.7–.29 35.62N–.02 140.52E–.03 53–2 4.8b,4.1s
JMA VI 29 22 14 37.0–.10 35.74N 140.62E 51–1 4.6,4.1s
NEIC VI 29 22 14 38.5–.56 35.60N 140.46E 55–5 4.9b,4.1s
GCMT VI 29 22 14 38.5–.20 35.66N 140.74E 54–1 5.0W,4.1s
IDC VI 29 22 14 38.1–1.3 35.64N 140.55E 52–12 4.6,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ17.00000°,λ67.00000°. NP2:ϕ_s12.00000°,δ74.00000°,λ97.00000°. $M_0$3.80000×10^{16}
MOS Error ellipse: s-maj=8.9km s-min=4.7km az=113.3.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.3km az=37.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s10.00000°,δ75.00000°,λ93.00000°. NP2:ϕ_s180.00000°,δ15.00000°,λ80.00000°. Principal axes: T Plg60.0000°,Azm284.0000° ; N Plg3.0000°,Azm189.0000°; P Plg30.0000°,Azm98.0000°
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.6km az=124.0. Felt at Narita. Recorded [3 JMA] in Chiba.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c81; s79,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.20±.13 $M_{\theta\theta}$-0.23±.09; $M_{\phi\phi}$-2.97±.09; $M_{r\theta}$0.20±.08; $M_{\theta\phi}$-0.46±.07; $M_{\phi r}$2.23±.08; Best double couple: NP1:ϕ_s7.00000°,δ63.00000° ,λ88.00000°. NP2:ϕ_s191.00000°,δ27.00000°,λ94.00000°. Principal axes: T 3.9220,Plg72.0000°,Azm272.0000°; N -0.1560,Plg2.0000°,Azm8.0000° ; P -3.7610,Plg18.0000°,Azm98.0000° $M_0$3.84100×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=8.2km az=86.0.
ISC VI 29 23 01 19.5–2.4 39.84N–.06 142.5E–.20 44–19 3.8b 23 1-60
ISCJB VI 29 23 01 18.1–1.4 39.94N–.05 142.6E–.10 45–11 3.6b **¶17207222**
JMA VI 29 23 01 18.7–.10 39.93N 142.51E 34–1 3.7
IDC VI 29 23 01 29.9–9.2 39.68N 141.78E 124–54 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=7.5km az=171.6.
IDC Error ellipse: s-maj=140.1km s-min=21.4km az=68.0.
ISC VI 30 01 19 34.0–.79 35.66N–.04 140.86E–.06 44–7 3.9b,3.1s 51 0-148
NIED VI 30 01 19 00 35.70N 140.70E 50 4.2W,3.1s **¶16721033**
IDC VI 30 01 19 28.3–.70 35.62N 140.86E 0 4.0,3.9
NEIC VI 30 01 19 32.2–2.3 35.69N 140.89E 28–17 4.3b,3.9
ISCJB VI 30 01 19 33.2–.47 35.74N–.03 140.82E–.06 55–4 4.0b,3.1s
JMA VI 30 01 19 34.5–.10 35.72N 140.68E 48–1 3.5,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ22.00000°,λ115.00000°. NP2:ϕ_s4.00000°,δ70.00000°,λ81.00000°. $M_0$2.07000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=13.6km az=76.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.7km az=89.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.9km az=171.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s8.00000°,δ74.00000°,λ79.00000°. NP2:ϕ_s223.00000°,δ19.00000°,λ123.00000°. Principal axes: T Plg60.0000°,Azm263.0000° ; N Plg10.0000°,Azm11.0000°; P Plg28.0000°,Azm107.0000°
ISC VI 30 05 58 54.7–2.7 39.13N–.04 142.50E–.08 11–16 3.9b 31 1-67
NIED VI 30 05 58 00 39.20N 142.40E 35 3.9W **¶17207237**
JMA VI 30 05 58 57.0–.10 39.15N 142.42E 31–1 4.0
IDC VI 30 05 59 00.0–2.7 39.02N 142.41E 56–26 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ18.00000°,λ-110.00000°. NP2:ϕ_s175.00000°,δ73.00000°,λ-84.00000°. $M_0$9.40000×10^{14}
JMA Event type fe.
IDC Error ellipse: s-maj=25.6km s-min=14.0km az=90.0.
ISC VI 30 06 32 09.7–1.7 38.25N–.04 142.10E–.08 29–11 3.7b 34 1-74
NIED VI 30 06 32 00 38.30N 141.90E 50 3.7W **¶17207239**
IDC VI 30 06 32 12.7–3.0 38.32N 142.17E 58–23 3.7,3.6
JMA VI 30 06 32 12.6–.10 38.28N 141.87E 46–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ18.00000°,λ153.00000°. NP2:ϕ_s339.00000°,δ82.00000°,λ74.00000°. $M_0$4.22000×10^{14}
IDC Error ellipse: s-maj=43.6km s-min=17.6km az=82.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 30 09 18 38.6–1.8 37.23N–.04 141.92E–.07 6–11 23 1-57
ISCJB VI 30 09 18 42.0–1.4 37.27N–.04 141.84E–.08 18–7 3.4b **¶600476604**
JMA VI 30 09 18 44.3–.20 37.30N 141.74E 37–3 3.4
IDC VI 30 09 18 45.8–2.4 36.47N 141.71E 0 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.0km az=17.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=46.9km s-min=27.7km az=56.0.
ISC VI 30 10 22 44.0–.36 37.39N–.03 141.55E–.03 32–2 4.9b,4.8s 519 1-143
NIED VI 30 10 22 00 37.40N 141.60E 44 4.7W,4.8s **¶16692881**
BJI VI 30 10 22 42.3 37.28N 141.63E 42 5.2b,5.0b
MOS VI 30 10 22 43.7–.79 37.51N 141.41E 35 5.2b,4.6s
JMA VI 30 10 22 44.4–.10 37.34N 141.59E 43–2 4.8,4.6s
NEIC VI 30 10 22 44.7–.12 37.36N 141.42E 35 4.9b,4.6s
ISCJB VI 30 10 22 45.0–.35 37.39N–.02 141.45E–.03 51–2 4.9b,4.6s
IDC VI 30 10 22 46.8–1.9 37.33N 141.51E 58–17 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ22.00000°,λ110.00000°. NP2:ϕ_s14.00000°,δ69.00000°,λ82.00000°. $M_0$1.43000×10^{16}
MOS Error ellipse: s-maj=6.6km s-min=4.3km az=104.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.5km az=139.0. Recorded [3 JMA] in Fukushima and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=135.7.
IDC Error ellipse: s-maj=14.2km s-min=10.7km az=106.0.
ISC VI 30 11 51 17.6–1.2 35.56N–.05 140.01E–.06 76–9 21 0-59
IDC VI 30 11 51 12.7–1.8 34.93N 139.49E 0 3.5,3.3 **¶17207252**
ISCJB VI 30 11 51 16.5–.74 35.54N–.05 140.01E–.07 84–6 3.4b,3.3
JMA VI 30 11 51 17.5–.20 35.62N 140.02E 69–2 3.0,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=42.8km s-min=26.6km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.8km az=141.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 30 12 42 45.9–2.8 38.69N–.06 142.48E–.08 30–19 3.9b 30 1-88
NIED VI 30 12 42 00 38.70N 142.40E 38 3.9W **¶17207254**
ISCJB VI 30 12 42 45.5–1.1 38.70N–.05 142.5E–.10 44–10 3.8b,3.2s
JMA VI 30 12 42 46.6–.10 38.73N 142.38E 38–1 4.2,3.2s
IDC VI 30 12 42 48.0–2.6 38.67N 142.35E 50–24 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ29.00000°,λ154.00000°. NP2:ϕ_s200.00000°,δ78.00000°,λ63.00000°. $M_0$8.29000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=13.7km s-min=6.8km az=17.9.
JMA Event type fe.
IDC Error ellipse: s-maj=26.6km s-min=15.3km az=98.0.
ISC VI 30 13 47 58.0–1.6 36.12N–.07 141.0E–.10 31 3.3b 10 0-60
JMA VI 30 13 47 51.2–.30 36.24N 141.78E 50 2.9 **¶17207256**
IDC VI 30 13 47 55.0–2.5 36.03N 141.10E 0 3.5,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=55.7km s-min=26.0km az=65.0.
JMA VI 30 13 55 43.5–.10 38.74N 142.38E 39–2 3.5
¶600476718
ISC VI 30 14 07 58.0–.99 35.43N–.04 140.53E–.05 28–7 3.6b 23 0-59
NIED VI 30 14 07 00 35.50N 140.40E 41 4.0W **¶17207257**
IDC VI 30 14 07 54.2–1.1 35.34N 140.44E 0 3.8,3.7
ISCJB VI 30 14 07 57.6–.48 35.41N–.04 140.50E–.06 40–5 3.6b,3.7
JMA VI 30 14 07 58.4–.10 35.46N 140.41E 31–2 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ23.00000°,λ70.00000°. NP2:ϕ_s80.00000°,δ69.00000°,λ98.00000°. $M_0$9.48000×10^{14}
IDC Error ellipse: s-maj=29.9km s-min=16.3km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=5.9km az=178.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s84.00000°,δ66.00000°,λ91.00000°. NP2:ϕ_s261.00000°,δ24.00000°,λ88.00000°. Principal axes: T Plg69.0000°,Azm356.0000° ; N Plg1.0000°,Azm263.0000°; P Plg21.0000°,Azm173.0000°
ISC VI 30 16 20 37.2–1.5 37.42N–.04 141.38E–.04 14–9 4.2b,3.3s 96 0-90
NIED VI 30 16 20 00 37.40N 141.30E 23 3.9W,3.3s **¶16704505**
BJI VI 30 16 20 31.9 37.47N 141.77E 11 4.7b,4.3b
ISCJB VI 30 16 20 38.0–.59 37.40N–.03 141.42E–.05 34–5 4.3b,3.3s
JMA VI 30 16 20 39.1–.10 37.44N 141.30E 29–1 4.2,3.3s
NEIC VI 30 16 20 41.0–.64 37.38N 141.34E 44–6 4.5b,3.3s
IDC VI 30 16 20 43.0–2.1 37.33N 141.29E 63–19 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ13.00000°,λ-87.00000°. NP2:ϕ_s237.00000°,δ77.00000°,λ-91.00000°. $M_0$7.73000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.2km az=26.8.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=5.4km az=126.0. Recorded [2 JMA] in Fukushima.
IDC Error ellipse: s-maj=16.7km s-min=13.5km az=106.0.
ISC VI 30 19 38 21.4–2.3 36.03N–.06 141.5E–.10 26–15 15 1-56

IDC	VI	30 19 38 16.5–2.9	35.93N	141.78E	0	3.6,3.6b		¶17207271
JMA	VI	30 19 38 22.4–.10	36.00N	141.43E	44–2	2.9,3.6b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=73.1km s-min=28.8km az=47.0.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
JMA	**VI**	**30 20 13 20.4**	**37.75N**	**141.51E**	**61–1**	**3.5**		
NIED	VI	30 20 13 00	37.80N	141.50E	77	3.5W		¶600476931
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ43.00000°,λ147.00000°. NP2:ϕ_s174.00000°,δ68.00000°,λ52.00000°. $M_0$1.75000×10^{14}							
ISC	**VI**	**30 22 16 51.9–2.0**	**37.71N–.06**	**141.8E–.10**	**45–18**		**24**	**1-58**
IDC	VI	30 22 16 42.5–2.4	37.99N	142.50E	0	3.4,3.3b		¶17207276
ISCJB	VI	30 22 16 51.9–1.1	37.72N–.04	141.8E–.10	57–10	3.2b,3.3b		
JMA	VI	30 22 16 53.1	37.73N	141.68E	49–1	3.4,3.3b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=47.5km s-min=36.2km az=54.0.							
ISCJB	Event type ke. Error ellipse: s-maj=14.7km s-min=6.5km az=14.9.							

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JMA	**I**	**01 07 51 13.8–.20**	**38.08N**	**144.63E**	**36**	**3.6**		¶600514446
JMA	Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.							
ISC	**I**	**04 12 07 05.7–1.0**	**36.79N–.05**	**143.57E–.08**	**35**	**3.4b**	**30**	**2-89**
IDC	I	04 12 07 01.2–1.1	36.72N	143.77E	0	3.6,3.4		¶17189419
ISCJB	I	04 12 07 04.5–.70	36.81N–.04	143.54E–.06	33	3.4b,3.4		
JMA	I	04 12 07 05.3–.20	36.82N	143.53E	53	3.2,3.4		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=40.1km s-min=23.2km az=112.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=6.3km az=160.7.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**I**	**06 05 42 00.9–1.4**	**38.31N–.08**	**143.3E–.10**	**19**	**3.6b**	**22**	**1-62**
NIED	I	06 05 41 00	38.30N	143.30E	20	3.6W		¶17189570
IDC	I	06 05 41 57.5–2.2	38.19N	143.47E	0	3.7,3.6		
ISCJB	I	06 05 41 59.0–.92	38.25N–.06	143.31E–.08	19	3.6b,3.6		
JMA	I	06 05 41 59.2–.10	38.29N	143.30E	25	3.6,3.6		
ISC	Event type ke.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ34.00000°,λ114.00000°. NP2:ϕ_s19.00000°,δ59.00000°,λ75.00000°. $M_0$2.95000×10^{14}							
IDC	Error ellipse: s-maj=64.0km s-min=22.1km az=66.0.							
ISCJB	Event type ke. Error ellipse: s-maj=9.5km s-min=8.6km az=33.9.							
JMA	Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
ISC	**I**	**06 12 10 18.5–1.3**	**36.85N–.07**	**143.63E–.08**	**35**		**24**	**2-57**
IDC	I	06 12 10 14.5–1.7	36.78N	143.55E	0	3.6,3.4L		¶17189593
ISCJB	I	06 12 10 17.3–.94	36.82N–.06	143.58E–.07	33	3.4b,3.4L		
JMA	I	06 12 10 18.5–.20	36.86N	143.54E	54	3.4,3.4L		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=41.4km s-min=29.3km az=143.0.							
ISCJB	Event type ke. Error ellipse: s-maj=8.5km s-min=6.9km az=141.0.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**I**	**12 03 43 03.5–.71**	**39.13N–.05**	**143.16E–.06**	**16**	**3.8b**	**40**	**1-88**
NIED	I	12 03 43 00	39.00N	143.30E	23	4.0W		¶16002289
IDC	I	12 03 43 00.8–.79	39.01N	143.15E	0	3.9,3.8		
ISCJB	I	12 03 43 01.6–.54	39.09N–.04	143.36E–.05	16	3.8b,2.9s		
JMA	I	12 03 43 02.4–.20	39.03N	143.31E	19–3	3.8,2.9s		
NEIC	I	12 03 43 06.2–.75	39.10N	143.10E	35	4.2b,2.9s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ26.00000°,λ81.00000°. NP2:ϕ_s25.00000°,δ65.00000°,λ94.00000°. $M_0$1.13000×10^{15}							
IDC	Error ellipse: s-maj=21.8km s-min=17.4km az=100.0.							
ISCJB	Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=139.2.							
JMA	Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=18.8km s-min=10.6km az=119.0.							
ISC	**I**	**13 12 23 45.6–1.5**	**33.93N–.04**	**141.08E–.09**	**33–9**	**3.9b**	**31**	**1-58**
NIED	I	13 12 23 00	34.00N	141.10E	44	3.8W		¶17190053
IDC	I	13 12 23 39.9–1.3	33.93N	141.31E	0	4.0,3.9		
JMA	I	13 12 23 45.7–.20	33.98N	141.11E	57–3	3.7,3.9		
ISC	Event type ke.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ64.00000°,λ25.00000°. NP2:ϕ_s245.00000°,δ68.00000°,λ152.00000°. $M_0$5.41000×10^{14}							
IDC	Error ellipse: s-maj=29.5km s-min=17.3km az=87.0.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**I**	**13 23 33 17.7–1.5**	**38.21N–.08**	**143.1E–.10**	**19**	**3.5b**	**17**	**1-58**
NIED	I	13 23 33 00	38.10N	143.40E	17	3.7W		¶17190117
JMA	I	13 23 33 13.4–.20	38.12N	143.36E	16–4	4.1		
IDC	I	13 23 33 13.4–2.7	38.26N	143.49E	0	3.7,3.7b		
ISCJB	I	13 23 33 14.5–1.2	38.14N–.09	143.4E–.10	19	3.6b,3.7b		
ISC	Event type ke.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ20.00000°,λ127.00000°. NP2:ϕ_s12.00000°,δ74.00000°,λ78.00000°. $M_0$4.31000×10^{14}							
ISCJB	Event type ke.							
ISC	**I**	**13 23 34 38.8–.42**	**34.93N–.04**	**141.31E–.06**	**27**	**4.4b,3.8s**	**79**	**0-148**
NIED	I	13 23 34 00	35.00N	141.30E	23	4.4W,3.8s		¶16032760
IDC	I	13 23 34 35.0–.51	34.98N	141.31E	0	4.4,4.3		
ISCJB	I	13 23 34 37.2–.31	34.97N–.04	141.34E–.04	27	4.4b,3.7s		
NEIC	I	13 23 34 37.7–2.1	34.96N	141.32E	18–13	4.6b,3.7s		
JMA	I	13 23 34 38.1–.20	35.05N	141.34E	21–4	3.8,3.7s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ45.00000°,λ22.00000°. NP2:ϕ_s276.00000°,δ75.00000°,λ133.00000°. $M_0$4.07000×10^{15}							
IDC	Error ellipse: s-maj=13.2km s-min=11.6km az=134.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.4km s-min=5.2km az=135.4.							
NEIC	Event type se. Error ellipse: s-maj=5.3km s-min=4.3km az=63.0.							
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
ISC	**I**	**14 10 28 47.0–1.7**	**37.89N–.06**	**142.4E–.10**	**14**		**16**	**1-62**
IDC	I	14 10 28 36.9–13	38.63N	142.98E	0	3.5,3.4b		¶17190155
ISCJB	I	14 10 28 47.9–1.3	37.74N–.06	142.37E–.09	14	3.6b,3.4b		
JMA	I	14 10 28 50.3–.20	37.82N	142.30E	37–2	3.2,3.4b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=304.7km s-min=44.2km az=174.0.							
ISCJB	Event type ke. Error ellipse: s-maj=11.1km s-min=8.2km az=36.3.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**I**	**16 11 14 11.4–.61**	**34.45N–.05**	**141.76E–.06**	**40–5**	**4.5b,3.7s**	**124**	**1-148**
NIED	I	16 11 14 00	34.40N	142.10E	8	4.2W,3.7s		¶15954487
JMA	I	16 11 14 05.4–.30	34.40N	142.06E	41–4	4.2,3.7s		
IDC	I	16 11 14 05.1–.62	34.49N	141.75E	0	4.1,4.1		
MOS	I	16 11 14 08.1–1.1	34.40N	141.73E	33	4.3b,4.1		
ISCJB	I	16 11 14 09.2–.64	34.45N–.03	141.80E–.04	36–5	4.4b,3.5s		
BJI	I	16 11 14 10.1	34.51N	141.67E	39	5.0b,4.6s		
NEIC	I	16 11 14 12.3–.67	34.45N	141.64E	46–6	5.0b,4.6s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ48.00000°,λ141.00000°. NP2:ϕ_s357.00000°,δ62.00000°,λ50.00000°. $M_0$1.93000×10^{15}							
JMA	Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.							
IDC	Error ellipse: s-maj=15.9km s-min=13.8km az=131.0.							
MOS	Error ellipse: s-maj=14.9km s-min=8.7km az=119.5.							
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=5.4km az=5.3.							
NEIC	Event type se. Error ellipse: s-maj=6.4km s-min=5.4km az=122.0.							
ISC	**I**	**17 19 22 30.8–.96**	**38.09N–.06**	**143.20E–.08**	**18**	**3.9b**	**34**	**1-81**
NIED	I	17 19 22 00	38.20N	143.20E	20	4.0W		¶16151687
IDC	I	17 19 22 27.8–1.8	38.08N	143.29E	0	3.8,3.8b		
ISCJB	I	17 19 22 29.6–.77	38.16N–.05	143.17E–.07	18	3.8b,3.8b		
NEIC	I	17 19 22 29.9–1.2	38.15N	143.24E	10	4.2b,3.8b		
JMA	I	17 19 22 30.0–.20	38.17N	143.22E	38	4.1,3.8b		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ30.00000°,λ89.00000°. NP2:ϕ_s31.00000°,δ60.00000°,λ90.00000°. $M_0$9.82000×10^{14}							
IDC	Error ellipse: s-maj=33.6km s-min=20.2km az=139.0.							
ISCJB	Event type se. Error ellipse: s-maj=8.9km s-min=5.6km az=42.6.							
NEIC	Event type se. Error ellipse: s-maj=24.3km s-min=9.1km az=140.0.							
JMA	Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISC	**I**	**18 15 52 26.1–1.4**	**38.23N–.09**	**143.2E–.10**	**19**	**3.5b**	**16**	**1-58**
NIED	I	18 15 52 00	38.20N	143.20E	20	3.8W		¶17190488
IDC	I	18 15 52 22.5–2.4	38.15N	143.33E	0	3.6,3.6b		
ISCJB	I	18 15 52 24.0–1.2	38.12N–.07	143.2E–.10	19	3.4b,3.6b		
JMA	I	18 15 52 25.0–.20	38.19N	143.18E	28	3.5,3.6b		
ISC	Event type ke.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ24.00000°,λ75.00000°. NP2:ϕ_s28.00000°,δ67.00000°,λ97.00000°. $M_0$4.75000×10^{14}							
IDC	Error ellipse: s-maj=53.6km s-min=26.9km az=88.0.							
ISCJB	Event type ke. Error ellipse: s-maj=13.2km s-min=7.8km az=32.8.							
JMA	Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISC	**I**	**19 10 26 41.5–.54**	**36.15N–.05**	**142.52E–.06**	**18**	**4.1b,3.9s**	**62**	**1-96**
NIED	I	19 10 26 00	36.20N	142.50E	8	4.4W,3.9s		¶16019239
IDC	I	19 10 26 38.8–.60	36.09N	142.53E	0	4.1,4.0		
ISCJB	I	19 10 26 40.0–.41	36.21N–.03	142.52E–.04	18	4.2b,3.9s		
JMA	I	19 10 26 41.3–.10	36.20N	142.51E	74	3.8,3.9s		
NEIC	I	19 10 26 43.8–.39	36.06N	142.48E	35	4.7b,3.9s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ43.00000°,λ115.00000°. NP2:ϕ_s6.00000°,δ52.00000°,λ69.00000°. $M_0$4.68000×10^{15}							
IDC	Error ellipse: s-maj=15.4km s-min=14.1km az=86.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=136.8.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=8.6km s-min=8.4km az=47.0.							
JMA	**I**	**19 21 56 41.0–.10**	**38.55N**	**143.02E**	**15–2**	**3.6**		
NIED	I	19 21 56 00	38.50N	143.00E	38	3.6W		¶600520287
JMA	Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ32.00000°,λ68.00000°. NP2:ϕ_s29.00000°,δ61.00000°,λ103.00000°. $M_0$2.67000×10^{14}							
JMA	**I**	**20 21 08 29.3–.30**	**38.11N**	**143.22E**	**19**	**3.5**		¶600520592
JMA	Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.							
ISC	**I**	**22 06 14 59.1–1.0**	**33.55N–.07**	**142.53E–.08**	**35**	**3.5b**	**31**	**2-66**
IDC	I	22 06 14 54.4–.98	33.50N	142.48E	0	3.6,3.5		¶17190719
JMA	I	22 06 14 56.8–.40	33.44N	142.46E	72	3.3,3.5		
ISCJB	I	22 06 14 57.2–.70	33.52N–.05	142.47E–.07	35	3.5b,3.5		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**23 02 59 37.4–.58**	**37.70N–.05**	**144.54E–.06**	**35**	**4.1b**	**80**	**3-144**
NIED	I	23 02 59 00	37.80N	144.40E	8	4.0W		¶16100813
IDC	I	23 02 59 31.9–.63	37.51N	144.53E	0	4.2L,4.1		
ISCJB	I	23 02 59 35.3–.39	37.65N–.03	144.44E–.04	33	4.8s,4.1b		
JMA	I	23 02 59 36.7–.20	37.80N	144.38E	32	4.3,4.1b		
NEIC	I	23 02 59 37.7–.50	37.63N	144.50E	36	4.3b,4.1b		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ29.00000°,λ-114.00000°. NP2:ϕ_s294.00000°,δ64.00000°,λ-77.00000°. $M_0$1.28000×10^{15}							
IDC	Error ellipse: s-maj=18.0km s-min=13.6km az=129.0.							
ISCJB	Event type se. Error ellipse: s-maj=4.7km s-min=4.1km az=162.6.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=11.4km s-min=8.8km az=132.0.							
ISC	**I**	**23 05 31 07.7–1.4**	**39.63N–.06**	**144.77E–.07**	**38**	**3.6b**	**38**	**2-68**
IDC	I	23 05 31 03.8–1.4	39.51N	144.86E	0	3.8,3.6b		¶17190778
ISCJB	I	23 05 31 07.5–.71	39.71N–.04	144.65E–.05	38	3.6b,3.6b		
JMA	I	23 05 31 08.8–.20	39.72N	144.57E	46	3.8,3.6b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=52.0km s-min=27.3km az=116.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=3.6km az=38.1.							
JMA	Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.							
ISC	**I**	**24 12 27 05.4–3.5**	**36.20N–.05**	**142.38E–.08**	**6–20**	**3.6b**	**24**	**1-56**
ISCJB	I	24 12 27 05.7–2.0	36.16N–.04	142.45E–.07	22–18	3.5b		¶17190887
IDC	I	24 12 27 06.0–1.5	36.23N	142.18E	0	3.7,3.7		
JMA	I	24 12 27 06.4–.20	36.18N	142.45E	84	2.9,3.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.1km s-min=7.2km az=13.0.							
IDC	Error ellipse: s-maj=34.2km s-min=22.5km az=96.0.							
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**I**	**26 11 01 13.7–.83**	**34.90N–.05**	**141.16E–.09**	**48**	**3.7b**	**20**	**0-76**
JMA	I	26 11 01 09.6–.30	34.96N	141.40E	44–4	3.3		¶17191031
ISCJB	I	26 11 01 11.8–.66	34.91N–.05	141.20E–.08	48	3.7b		
IDC	I	26 11 01 14.5–2.6	34.95N	141.10E	49–26	3.7,3.6		
ISC	Event type ke.							
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=9.7km s-min=6.6km az=176.1.							
IDC	Error ellipse: s-maj=26.6km s-min=16.8km az=84.0.							
JMA	**I**	**28 02 21 16.4–.20**	**37.03N**	**142.26E**	**30**	**3.6**		¶600522860
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.							
ISC	**I**	**28 09 24 02.7–.82**	**34.42N–.04**	**141.90E–.05**	**27–5**	**4.3b,3.8s**	**133**	**1-148**
NIED	I	28 09 23 00	34.40N	142.10E	5	4.3W,3.8s		¶15977705
JMA	I	28 09 23 58.9–.30	34.41N	142.07E	29–4	3.9,3.8s		
IDC	I	28 09 23 58.8–.53	34.48N	141.85E	0	4.2,4.1		
MOS	I	28 09 24 00.4–.91	34.40N	141.95E	25	4.4b,4.1		
ISCJB	I	28 09 24 00.6–.96	34.43N–.03	141.93E–.04	24–6	4.3b,3.7s		
BJI	I	28 09 24 00.7	34.49N	142.07E	32	4.9b,4.4s		
NEIC	I	28 09 24 02.1–2.8	34.46N	141.89E	19–17	4.6b,4.4s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s82.00000°,δ58.00000°,λ-177.00000°. NP2:ϕ_s350.00000°,δ87.00000°,λ-32.00000°. $M_0$2.77000×10^{15}							
JMA	Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.							
IDC	Error ellipse: s-maj=14.6km s-min=11.9km az=112.0.							
MOS	Error ellipse: s-maj=15.2km s-min=8.0km az=116.7.							
ISCJB	Event type se. Error ellipse: s-maj=5.7km s-min=4.8km az=38.0.							
NEIC	Event type se. Error ellipse: s-maj=8.8km s-min=6.5km az=80.0.							
ISC	**II**	**03 13 51 55.1–2.5**	**39.92N–.05**	**143.39E–.05**	**0–15**	**4.4b,3.6s**	**115**	**1-85**
NIED	II	03 13 51 00	39.90N	143.40E	23	4.4W,3.6s		¶16008940
IDC	II	03 13 51 55.5–.63	39.86N	143.30E	0	4.2,4.1		
JMA	II	03 13 51 56.9–.20	39.93N	143.37E	19–4	4.3,4.1		
ISCJB	II	03 13 51 56.7–1.1	39.92N–.04	143.38E–.05	20–7	4.2b,3.5s		
NEIC	II	03 13 51 57.9–3.1	39.93N	143.24E	15–19	4.5b,3.5s		
MOS	II	03 13 52 00.2–1.4	39.97N	143.21E	48	4.6b,3.5s		
ISC	Event type se.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ24.00000°,λ40.00000°. NP2:ϕ_s36.00000°,δ75.00000°,λ109.00000°. $M_0$4.33000×10^{15}							
IDC	Error ellipse: s-maj=16.3km s-min=12.7km az=126.0.							
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISCJB	Event type fe. Error ellipse: s-maj=8.0km s-min=4.3km az=38.3.							
NEIC	Event type fe. Error ellipse: s-maj=11.4km s-min=6.7km az=119.0. Recorded [1 JMA] in Iwate.							
MOS	Error ellipse: s-maj=8.6km s-min=5.5km az=93.1.							
ISC	**II**	**03 14 03 02.2–1.2**	**39.86N–.06**	**143.32E–.08**	**6**	**3.4b**	**22**	**1-64**
ISCJB	II	03 14 03 00.2–.85	39.85N–.05	143.46E–.08	6	3.3b		¶17191596
NIED	II	03 14 03 00	39.90N	143.40E	20	3.6W		
IDC	II	03 14 03 00.9–1.6	39.86N	143.39E	0	3.5,3.4		
JMA	II	03 14 03 01.7–.30	39.92N	143.42E	18–4	3.6,3.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.8km s-min=6.1km az=39.4.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ28.00000°,λ120.00000°. NP2:ϕ_s359.00000°,δ66.00000°,λ75.00000°. $M_0$3.31000×10^{14}							
IDC	Error ellipse: s-maj=40.7km s-min=20.6km az=92.0.							
JMA	Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.							
ISC	**II**	**04 04 57 58.2–2.4**	**39.17N–.07**	**143.2E–.10**	**43–22**	**3.4b**	**25**	**1-59**
NIED	II	04 04 57 00	39.10N	143.30E	17	3.6W		¶17191634
JMA	II	04 04 57 53.8–.10	39.13N	143.31E	22–3	3.7		
ISCJB	II	04 04 57 55.5–1.2	39.14N–.06	143.31E–.09	37–11	3.5s,3.4b		
IDC	II	04 04 57 59.2–3.2	39.10N	143.26E	57–29	3.5,3.5		
ISC	Event type ke.							
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ24.00000°,λ92.00000°. NP2:ϕ_s25.00000°,δ66.00000°,λ89.00000°. $M_0$2.96000×10^{14}							
JMA	Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=12.8km s-min=9.3km az=24.2.							
IDC	Error ellipse: s-maj=30.0km s-min=21.6km az=108.0.							
JMA	**II**	**04 19 52 28.3–.20**	**39.12N**	**143.34E**	**15–3**	**3.5**		

NIED II 04 19 52 00 39.10N 143.30E 29 3.4W **¶600525501**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ22.00000°,λ46.00000°. NP2:ϕ_s38.00000°,δ74.00000°,λ106.00000°. $M_0$1.56000×10^{14}
ISC II 04 20 22 17.2–2.0 39.21N–.05 143.40E–.06 1–10 4.2b 78 1-74
NIED II 04 20 22 00 39.10N 143.30E 26 4.0W **¶16007682**
NEIC II 04 20 22 14.3–4.2 38.82N 144.50E 30–28 4.4b
BJI II 04 20 22 15.9 38.87N 143.90E 30 5.1b,4.5s
JMA II 04 20 22 19.6–.20 39.12N 143.32E 17–3 4.0,4.5s
MOS II 04 20 22 20.7–1.2 39.15N 143.45E 37 4.5b,4.5s
IDC II 04 20 22 23.8–2.3 39.05N 143.36E 42–21 3.8,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ26.00000°,λ68.00000°. NP2:ϕ_s32.00000°,δ66.00000°,λ100.00000°. $M_0$1.14000×10^{15}
NEIC Event type se. Error ellipse: s-maj=23.8km s-min=12.4km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=11.9km s-min=7.3km az=85.2.
IDC Error ellipse: s-maj=20.9km s-min=13.9km az=107.0.
ISC II 05 14 55 25.5–2.8 33.35N–.06 142.40E–.07 4–16 3.7b 38 2-92
NIED II 05 14 55 00 33.20N 142.40E 5 4.0W **¶17191744**
IDC II 05 14 55 25.1–.95 33.36N 142.48E 0 3.8,3.7
JMA II 05 14 55 27.5–.20 33.23N 142.43E 73 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ19.00000°,λ-69.00000°. NP2:ϕ_s143.00000°,δ72.00000°,λ-97.00000°. $M_0$9.80000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=20.3km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
JMA II 09 20 25 36.9–.30 40.35N 145.52E 48 3.8
¶600527575
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
JMA II 10 21 16 03.2–.20 37.42N 144.23E 46 4.4
¶600527940
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC II 11 15 47 44.4–1.8 33.53N–.04 141.20E–.06 31–13 4.1b 43 1-92
NIED II 11 15 47 00 33.70N 141.10E 50 3.9W **¶16342604**
IDC II 11 15 47 40.5–.77 33.55N 140.93E 0 4.0,3.9
NEIC II 11 15 47 41.9–5.4 33.53N 140.97E 10–35 4.1b,3.9
ISCJB II 11 15 47 44.5–.76 33.57N–.03 141.19E–.06 48–7 4.0b,3.5s
JMA II 11 15 47 46.0–.20 33.66N 141.12E 60–4 3.8,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ48.00000°,λ146.00000°. NP2:ϕ_s333.00000°,δ65.00000°,λ47.00000°. $M_0$9.36000×10^{14}
IDC Error ellipse: s-maj=20.7km s-min=15.2km az=87.0.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=11.7km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=178.7.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC II 12 16 28 28.1–.79 38.41N–.07 143.28E–.08 15 4.3b 54 1-82
NIED II 12 16 28 00 38.40N 143.40E 14 4.2W **¶16168842**
ISCJB II 12 16 28 26.2–.58 38.41N–.05 143.35E–.06 15 4.1b,3.7s
JMA II 12 16 28 27.1–.10 38.36N 143.36E 28 4.4,3.7s
NEIC II 12 16 28 30.3–3.2 38.40N 143.27E 31–21 4.5b,3.7s
IDC II 12 16 28 32.1–3.2 38.26N 143.31E 50–27 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ26.00000°,λ90.00000°. NP2:ϕ_s24.00000°,δ64.00000°,λ90.00000°. $M_0$2.62000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.9km az=138.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.2km az=126.0.
IDC Error ellipse: s-maj=21.6km s-min=18.0km az=116.0.
ISC II 14 15 44 35.0–1.5 33.52N–.07 141.1E–.10 48 14 1-57
IDC II 14 15 44 30.6–4.8 33.21N 140.89E 0 3.5,3.3b **¶17192253**
ISCJB II 14 15 44 33.6–1.0 33.51N–.06 141.1E–.10 48 3.4b,3.0s
JMA II 14 15 44 35.2–.20 33.58N 141.05E 42 3.2,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=198.9km s-min=33.7km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=8.2km az=177.3.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC II 15 16 38 08.6–.89 38.38N–.06 143.38E–.08 15 3.7b 42 2-74
IDC II 15 16 38 05.8–.90 38.27N 143.48E 0 3.8,3.7 **¶17192313**
ISCJB II 15 16 38 06.8–.58 38.35N–.04 143.40E–.05 15 3.7b,3.7
JMA II 15 16 38 08.4–.20 38.38N 143.37E 33 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=14.9km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=143.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 15 19 01 02.3–.38 38.37N–.03 143.29E–.03 20–2 5.2b,5.0s 756 1-164
IDC II 15 19 00 58.5–.51 38.27N 143.41E 0 4.9,4.9 **¶16026457**
ISCJB II 15 19 00 59.1–.74 38.30N–.02 143.26E–.02 7–4 5.2b,5.0s
JMA II 15 19 01 00.3–.20 38.34N 143.44E 38 5.5,5.0s
NIED II 15 19 01 00 38.30N 143.40E 17 5.2W,5.0s
BJI II 15 19 01 00.4 38.30N 142.99E 12 5.5b,5.4
MOS II 15 19 01 02.7–1.1 38.36N 143.25E 33 5.5b,4.9s
GCMT II 15 19 01 03.4–.20 38.36N 143.49E 22–0 5.2W,4.9s
NEIC II 15 19 01 03.4–1.6 38.32N 143.16E 26–11 5.5W,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=150.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ31.00000°,λ101.00000°. NP2:ϕ_s19.00000°,δ59.00000°,λ83.00000°. $M_0$7.41000×10^{16}
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=108.1.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c99; s107,c194; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59±.02 $M_{\theta\theta}$-0.06±.01; $M_{\phi\phi}$-0.53±.01; $M_{r\theta}$0.24±.02; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s23.00000°,δ68.00000°,λ91.00000°. NP2:ϕ_s200.00000°,δ22.00000°,λ87.00000°. Principal axes:
T 0.8470,Plg67.0000°,Azm295.0000°; N 0.0280,Plg1.0000°,Azm202.0000°
; P -0.8750,Plg23.0000°,Azm112.0000° $M_0$0.86100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=131.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.14 $M_{\theta\theta}$-0.56 $M_{\phi\phi}$-0.58 $M_{r\theta}$1.00 $M_{\theta\phi}$0.27 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s180.00000°,δ12.00000°,λ64.00000°. NP2:ϕ_s27.00000°,δ79.00000°,λ95.00000°. Principal axes:
T 2.4700,Plg55.0000°,Azm304.0000°; N -0.7900,Plg5.0000°,Azm206.0000°
; P -1.6800,Plg34.0000°,Azm112.0000° $M_0$2.20000×10^{17}
ISC II 15 19 51 21.1–1.5 38.32N–.09 143.3E–.10 15 3.5b 20 1-62
IDC II 15 19 51 17.8–2.3 38.30N 143.55E 0 3.6,3.5 **¶17192320**
ISCJB II 15 19 51 19.6–.00 38.23N–.08 143.31E–.09 15 3.3b,3.5
JMA II 15 19 51 22.0–.20 38.37N 143.26E 40 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=64.7km s-min=23.4km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=8.9km az=149.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 15 22 12 33.9–.54 38.46N–.05 143.36E–.05 29–2 4.7b,4.4s 347 1-117
NIED II 15 22 12 00 38.40N 143.40E 14 4.6W,4.4s **¶16026462**
IDC II 15 22 12 29.3–.54 38.38N 143.38E 0 4.5,4.4
BJI II 15 22 12 29.6 38.39N 143.23E 15 5.1b,4.8b
JMA II 15 22 12 31.1–.20 38.36N 143.41E 38 4.8,4.8b
ISCJB II 15 22 12 31.9–.23 38.36N–.03 143.31E–.03 27 4.6b,4.2s
MOS II 15 22 12 32.6–.99 38.56N 143.28E 25 5.0b,4.0s
NEIC II 15 22 12 33.2–1.3 38.39N 143.34E 23–9 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ30.00000°,λ91.00000°. NP2:ϕ_s23.00000°,δ60.00000°,λ89.00000°. $M_0$1.05000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=11.6km az=130.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=149.7.
MOS Error ellipse: s-maj=7.5km s-min=4.5km az=109.3.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.8km az=123.0.
ISC II 17 05 06 18.5–1.2 38.43N–.08 143.31E–.10 15 3.7b 24 1-68
NIED II 17 05 06 00 38.40N 143.20E 17 3.7W **¶17192400**
IDC II 17 05 06 15.6–1.5 38.39N 143.53E 0 3.8b,3.8
ISCJB II 17 05 06 16.6–.84 38.38N–.07 143.37E–.08 15 3.8b,3.8
JMA II 17 05 06 19.4–.20 38.35N 143.23E 33 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ28.00000°,λ96.00000°. NP2:ϕ_s22.00000°,δ63.00000°,λ87.00000°. $M_0$3.72000×10^{14}
IDC Error ellipse: s-maj=47.1km s-min=19.8km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.8km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 20 16 22 10.3–1.5 38.3N–.10 143.4E–.10 15 3.5b 19 2-62
IDC II 20 16 22 07.2–2.1 38.27N 143.66E 0 3.6,3.5b **¶17192594**
JMA II 20 16 22 10.7–.20 38.26N 143.32E 33 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=26.0km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 21 06 42 48.6–1.7 37.37N–.10 142.2E–.10 21 3.5b 18 1-49
NIED II 21 06 42 00 37.30N 142.20E 26 3.5W **¶17192621**
IDC II 21 06 42 45.0–5.1 37.27N 142.43E 0 3.6,3.5
ISCJB II 21 06 42 45.8–1.6 37.3N–.10 142.4E–.10 21 3.4b,3.5
JMA II 21 06 42 47.1–.30 37.27N 142.19E 27–4 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ48.00000°,λ-37.00000°. NP2:ϕ_s152.00000°,δ63.00000°,λ-131.00000°. $M_0$2.18000×10^{14}
IDC Error ellipse: s-maj=123.9km s-min=27.9km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=8.9km az=138.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC II 21 13 24 03.6–.45 38.26N–.05 143.27E–.04 15 4.8b,4.2s 254 1-95
NIED II 21 13 24 00 38.20N 143.50E 17 4.6W,4.2s **¶16057037**
IDC II 21 13 24 01.0–.62 38.18N 143.35E 0 4.4,4.3
ISCJB II 21 13 24 01.7–.26 38.24N–.03 143.39E–.03 15 4.6b,4.3s
JMA II 21 13 24 01.7–.20 38.23N 143.50E 31 4.7,4.3s
NEIC II 21 13 24 02.3–2.2 38.25N 143.32E 8–13 4.9b,4.3s
BJI II 21 13 24 03.7 38.30N 143.22E 26 5.0b,4.8b
MOS II 21 13 24 03.1–1.1 38.27N 143.36E 26 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ34.00000°,λ111.00000°. NP2:ϕ_s4.00000°,δ59.00000°,λ77.00000°. $M_0$8.99000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=12.1km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.9km az=142.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.4km az=128.0.
MOS Error ellipse: s-maj=7.6km s-min=4.9km az=105.3.
ISC II 22 03 00 20.8–.81 38.27N–.06 143.45E–.08 15 3.9b 54 2-74
NIED II 22 03 00 00 38.20N 143.30E 11 4.0W **¶16193675**
IDC II 22 03 00 18.2–.96 38.17N 143.54E 0 3.9,3.8
ISCJB II 22 03 00 19.0–.53 38.17N–.05 143.46E–.05 15 3.9b,3.8
NEIC II 22 03 00 20.8–3.6 38.18N 143.52E 16–22 4.3b,3.8
JMA II 22 03 00 21.9–.20 38.22N 143.33E 37 3.8,3.8
MOS II 22 03 00 21.2–.70 38.17N 143.45E 35 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ20.00000°,λ19.00000°. NP2:ϕ_s53.00000°,δ84.00000°,λ109.00000°. $M_0$1.20000×10^{15}
IDC Error ellipse: s-maj=25.2km s-min=18.9km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.7km az=141.1.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=7.2km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=14.7km s-min=8.7km az=88.4.
ISC II 22 09 24 38.4–.97 39.56N–.06 144.45E–.07 23 3.4b 42 2-68
IDC II 22 09 24 34.8–1.2 39.42N 144.57E 0 3.8s,3.8 **¶17192692**
ISCJB II 22 09 24 37.7–.71 39.62N–.04 144.38E–.05 23 3.8s,3.4b
JMA II 22 09 24 39.5–.20 39.60N 144.32E 39 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=23.6km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.2km az=44.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 22 09 53 38.8–.40 38.32N–.04 143.15E–.03 26–2 4.9s,4.9b 531 1-154
NIED II 22 09 53 00 38.20N 143.50E 17 5.0W,4.9b **¶16066048**
IDC II 22 09 53 33.4–.43 38.18N 143.30E 0 4.5,4.5
JMA II 22 09 53 34.3–.10 38.19N 143.48E 36 5.2,4.5
BJI II 22 09 53 35.8 38.34N 143.13E 21 5.2s,5.1
ISCJB II 22 09 53 36.1–.71 38.29N–.02 143.19E–.02 19–5 4.8s,4.8b
NEIC II 22 09 53 39.3–.59 38.23N 143.17E 32–4 4.9b,4.8b
MOS II 22 09 53 39.3–1.2 38.56N 143.07E 34 5.2b,4.9s
GCMT II 22 09 53 39.3–.20 38.23N 143.49E 20–0 5.1W,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ35.00000°,λ120.00000°. NP2:ϕ_s4.00000°,δ60.00000°,λ71.00000°. $M_0$4.07000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=10.4km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=148.6.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.2km az=150.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=96.9.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c77; s104,c164; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.71±.18 $M_{\theta\theta}$-0.68±.10; $M_{\phi\phi}$-3.03±.11; $M_{r\theta}$1.33±.21; $M_{\theta\phi}$-1.46±.06; $M_{\phi r}$3.96±.25; Best double couple: NP1:ϕ_s20.00000°,δ69.00000°,λ86.00000°. NP2:ϕ_s211.00000°,δ21.00000°,λ100.00000°. Principal axes:
T 5.5990,Plg66.0000°,Azm284.0000°; N -0.0120,Plg3.0000°,Azm22.0000°
; P -5.5870,Plg24.0000°,Azm113.0000° $M_0$5.59300×10^{16}
ISC II 22 11 16 48.3–1.4 38.21N–.07 143.4E–.10 19 3.3b 22 2-58
IDC II 22 11 16 44.9–2.1 38.15N 143.56E 0 3.5,3.5b **¶17192701**
ISCJB II 22 11 16 46.4–1.1 38.18N–.07 143.45E–.09 19 3.3b,2.9s
JMA II 22 11 16 46.8–.30 38.22N 143.50E 35 3.3,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=53.0km s-min=25.6km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.1km az=44.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 23 20 13 22.5–1.5 38.22N–.06 143.3E–.10 19 3.5b 25 2-58
IDC II 23 20 13 18.6–2.1 38.17N 143.63E 0 3.5b,3.5 **¶17192756**
ISCJB II 23 20 13 21.0–1.0 38.19N–.05 143.33E–.09 19 3.4b,3.5
JMA II 23 20 13 22.1–.20 38.22N 143.30E 33 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=51.9km s-min=25.8km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.6km az=27.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC II 26 11 29 58.7–.81 33.03N–.06 142.53E–.08 33 3.6b 41 2-92
NIED II 26 11 29 00 33.10N 142.40E 8 3.6W **¶17192904**
IDC II 26 11 29 53.9–.88 32.91N 142.61E 0 3.8,3.6
ISCJB II 26 11 29 56.8–.56 32.96N–.04 142.43E–.07 33 3.6b,3.3s
JMA II 26 11 29 56.9–.30 33.12N 142.39E 14 4.1,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ42.00000°,λ-55.00000°. NP2:ϕ_s186.00000°,δ57.00000°,λ-117.00000°. $M_0$3.29000×10^{14}
IDC Error ellipse: s-maj=25.4km s-min=17.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.6km az=146.1.
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
ISC II 26 14 40 57.7–.47 38.20N–.03 143.19E–.03 27–2 5.1b,4.7s 496 1-154
NIED II 26 14 40 00 38.20N 143.50E 17 4.9W,4.7s **¶16160046**
IDC II 26 14 40 53.5–.43 38.14N 143.26E 0 4.8,4.7
JMA II 26 14 40 53.2–.10 38.17N 143.54E 34 5.2,4.7
ISCJB II 26 14 40 54.7–.69 38.17N–.02 143.27E–.03 18–4 5.0b,4.6s
BJI II 26 14 40 56.8 38.24N 142.96E 22 5.2b,5.2b
NEIC II 26 14 40 57.0–2.0 38.19N 143.16E 22–13 5.1b,5.2b
MOS II 26 14 40 57.5–1.0 38.54N 143.03E 23 5.4b,4.6s
GCMT II 26 14 40 57.0–.40 38.23N 143.41E 26–1 5.0W,4.6s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ31.00000°,λ111.00000°. NP2:ϕ_s13.00000°,δ61.00000°,λ78.00000°. $M_0$2.66000×10^{16}
IDC Error ellipse: s-maj=13.3km s-min=9.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=41.1.

NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.4km az=115.0. Felt at Sendai. Recorded [2 JMA] in Miyagi and [1 JMA] in Iwate and Yamagata.
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=106.1.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c31; s68,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.51±.18 $M_{\theta\theta}$-0.61±.11; $M_{\phi\phi}$-1.90±.11; $M_{r\theta}$1.46±.22; $M_{\theta\phi}$-0.75±.06; $M_{\phi r}$2.33±.20; Best double couple: NP1:ϕ_s30.00000°,δ70.00000°,λ93.00000°. NP2:ϕ_s201.00000°,δ21.00000°,λ81.00000°. Principal axes: T 3.7760,Plg65.0000°,Azm306.0000°; N -0.2880,Plg3.0000°,Azm209.0000°; P -3.4930,Plg25.0000°,Azm118.0000° $M_0$3.63400×10^{16}

ISC	**II**	**26 15 12 39.7–4.3**	**33.68N–.05**	**142.45E–.06**	**12–26**	**3.8b**	**64**	**2-147**
NIED	II	26 15 12 00	33.70N	142.50E	5	3.9W		**¶16398993**
IDC	II	26 15 12 37.9–.56	33.70N	142.54E	0	4.0,3.9		
ISCJB	II	26 15 12 39.0–1.5	33.69N–.04	142.44E–.04	18–11	3.7b,3.9		
JMA	II	26 15 12 40.4–.30	33.73N	142.54E	56	4.3,3.9		
NEIC	II	26 15 12 42.3–.47	33.72N	142.42E	30	4.0b,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ34.00000°,λ-97.00000°. NP2:ϕ_s192.00000°,δ56.00000°,λ-85.00000°. $M_0$7.06000×10^{14}
IDC Error ellipse: s-maj=16.5km s-min=13.4km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.0km az=43.1.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=9.3km az=134.0.

ISC	**II**	**26 17 20 06.8–.47**	**38.08N–.04**	**143.32E–.06**	**19**	**4.8b,4.5s**	**185**	**2-85**
NIED	II	26 17 20 00	38.20N	143.30E	11	4.7W,4.5s		**¶16160472**
NEIC	II	26 17 20 04.7–2.4	38.09N	143.47E	7–15	4.8b,4.5s		
ISCJB	II	26 17 20 05.5–.32	38.16N–.03	143.37E–.05	19	4.7b,4.4s		
JMA	II	26 17 20 06.1–.20	38.22N	143.32E	23	4.7,4.4s		
MOS	II	26 17 20 07.4–1.1	38.22N	143.42E	33	5.1b,4.4s		
IDC	II	26 17 20 08.3–5.4	38.13N	143.38E	28–37	4.6,4.5		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ22.00000°,λ34.00000°. NP2:ϕ_s47.00000°,δ78.00000°,λ109.00000°. $M_0$1.36000×10^{16}
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=5.2km az=110.0. Recorded [1 JMA] in Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=35.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=106.3.
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=97.0.

ISC	**II**	**26 17 30 58.8–1.4**	**38.12N–.07**	**143.17E–.09**	**19**	**3.4b**	**22**	**1-58**
IDC	II	26 17 30 54.9–2.1	38.11N	143.60E	0	3.6,3.5		**¶17192913**
ISCJB	II	26 17 30 57.1–.99	38.17N–.06	143.30E–.09	19	3.4b,3.5		
JMA	II	26 17 30 57.0–.20	38.22N	143.35E	30	3.2,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=53.3km s-min=25.2km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.5km az=169.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**II**	**26 18 10 43.6–1.3**	**38.11N–.06**	**143.48E–.10**	**19**	**3.5b**	**23**	**2-62**
IDC	II	26 18 10 41.9–2.1	38.11N	143.48E	0	3.7,3.6		**¶17192914**
ISCJB	II	26 18 10 42.8–.89	38.13N–.06	143.42E–.08	19	3.4b,3.6		
JMA	II	26 18 10 45.1–.20	38.21N	143.34E	33	3.5,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=65.0km s-min=23.5km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.7km az=155.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**II**	**28 09 55 27.0–.64**	**35.72N–.05**	**143.59E–.06**	**35**	**3.8b**	**60**	**2-90**
MOS	II	28 09 55 22.5–1.5	35.79N	143.81E	18	4.5b		**¶16388230**
IDC	II	28 09 55 22.1–.72	35.62N	143.79E	0	4.0,3.9L		
NEIC	II	28 09 55 23.5–.48	35.64N	143.75E	10	4.6b,3.9L		
ISCJB	II	28 09 55 24.8–.45	35.83N–.04	143.60E–.04	33	3.8b,3.1s		
JMA	II	28 09 55 26.9–.40	35.81N	143.40E	85	3.9,3.1s		

ISC Event type se.
MOS Error ellipse: s-maj=12.5km s-min=8.4km az=91.6.
IDC Error ellipse: s-maj=19.1km s-min=16.0km az=122.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=9.7km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.7km az=169.1.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

ISC	**III**	**01 20 18 20.8–1.6**	**37.04N–.07**	**142.27E–.08**	**9**	**3.2b**	**17**	**1-90**
JMA	III	01 20 18 20.1–.30	36.91N	142.30E	7–3	3.3		**¶17193095**
ISCJB	III	01 20 18 20.1–1.3	36.88N–.06	142.4E–.10	9	3.2b		
IDC	III	01 20 18 26.8–1.7	36.03N	141.78E	0	3.5,3.3		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=8.3km az=27.0.
IDC Error ellipse: s-maj=47.7km s-min=34.9km az=28.0.

ISC	**III**	**08 15 43 41.0–1.0**	**36.70N–.06**	**142.23E–.08**	**19**	**3.4b**	**27**	**1-57**
NIED	III	08 15 43 00	36.70N	142.20E	23	3.7W		**¶17193476**
IDC	III	08 15 43 38.8–1.3	36.71N	142.27E	0	3.5,3.5		
ISCJB	III	08 15 43 39.6–.85	36.63N–.06	142.27E–.08	19	3.4b,2.7s		
JMA	III	08 15 43 42.1–.30	36.71N	142.18E	49	3.5,2.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ18.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ73.00000°,λ92.00000°. $M_0$4.35000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=22.0km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.7km az=32.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**08 21 31 33.4–1.8**	**33.69N–.06**	**141.39E–.09**	**26–15**	**3.9b**	**21**	**1-57**
NIED	III	08 21 31 00	33.80N	141.20E	26	3.7W		**¶17193497**
JMA	III	08 21 31 36.4–.20	33.76N	141.17E	42	3.5		
IDC	III	08 21 31 37.5–2.5	33.69N	141.19E	49–23	4.1,4.0L		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ43.00000°,λ-136.00000°. NP2:ϕ_s132.00000°,δ62.00000°,λ-56.00000°. $M_0$3.92000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=24.6km s-min=11.1km az=92.0.

JMA	**III**	**09 02 54 05.3–.10**	**38.57N**	**143.28E**	**23**	**4.6**		**¶602651435**

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**09 02 55 12.8–.48**	**38.51N–.05**	**143.24E–.06**	**23**	**4.9b**	**78**	**1-123**
JMA	III	09 02 55 09.9–.20	38.40N	143.32E	14	4.8		**¶602651433**
ISCJB	III	09 02 55 11.1–.35	38.42N–.04	143.29E–.05	23	4.8b		
NEIC	III	09 02 55 12.6–3.0	38.47N	143.24E	20–18	5.1b		
MOS	III	09 02 55 12.6–.98	38.44N	143.30E	36	5.1b		
IDC	III	09 02 55 14.0–.75	38.43N	143.19E	27–4	4.6,4.6		

ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.1km az=154.2.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=107.0.
MOS Error ellipse: s-maj=13.9km s-min=9.6km az=97.4.
IDC Error ellipse: s-maj=18.4km s-min=14.8km az=84.0.

JMA	**III**	**09 02 56 13.8–.20**	**38.39N**	**143.05E**	**8–4**	**4.2**		**¶16400367**

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**09 02 57 16.9–.61**	**38.29N–.03**	**143.09E–.03**	**28–4**	**5.7b**	**1195**	**1-160**
NIED	III	09 02 57 00	38.30N	143.40E	20	6.0W		**¶16293274**
JMA	III	09 02 57 10.7–.20	38.32N	143.40E	12	6.2		
IDC	III	09 02 57 12.4–.37	38.35N	143.15E	0	5.3,5.3		
BJI	III	09 02 57 14.1	38.41N	143.02E	22	6.3s,6.2		
MOS	III	09 02 57 16.3–1.1	38.37N	142.99E	34	5.9b,6.2		
NEIC	III	09 02 57 16.7–1.4	38.36N	142.91E	23–9	5.7b,6.2		
ISCJB	III	09 02 57 17.2–.42	38.35N–.02	142.95E–.02	40–3	6.8s,5.6b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ23.00000°,λ95.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ88.00000°. $M_0$1.17000×10^{18}
JMA Event type fe.
NEIC Event type fe. Recorded [3 JMA] in Miyagi and Yamagata.
ISCJB Event type fe.

ISC	**III**	**09 02 58 12.3–.39**	**38.25N–.04**	**143.15E–.05**	**23**	**5.5b**	**150**	**1-150**
NIED	III	09 02 58 00	38.30N	143.20E	23	6.0W		**¶600538119**
IDC	III	09 02 58 08.9–.54	38.27N	143.13E	0	6.3,6.3s		
ISCJB	III	09 02 58 10.0–.27	38.19N–.03	143.24E–.04	23	5.4b,6.3s		
JMA	III	09 02 58 11.8–.30	38.30N	143.16E	21	6.0,6.3s		
MOS	III	09 02 58 14.1–1.9	38.40N	142.80E	33	5.6b,6.3s		
NEIC	III	09 02 58 14.1–2.2	38.25N	143.10E	35–15	5.7b,6.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ29.00000°,λ99.00000°. NP2:ϕ_s18.00000°,δ62.00000°,λ85.00000°. $M_0$1.01000×10^{18}
IDC Error ellipse: s-maj=15.0km s-min=13.2km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.5km az=31.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=7.1km az=94.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.7km az=99.0.

ISC	**III**	**09 03 02 01.7–.73**	**38.43N–.06**	**143.26E–.07**	**15**	**4.8b**	**44**	**1-82**
IDC	III	09 03 01 59.8–1.2	38.48N	143.36E	0	4.8,4.8		**¶16403019**
ISCJB	III	09 03 02 00.1–.50	38.46N–.05	143.34E–.05	15	4.7b,4.8		
JMA	III	09 03 02 01.9–.20	38.52N	143.27E	28	5.0,4.8		
NEIC	III	09 03 02 06.0–1.3	38.45N	143.20E	42–10	4.7b,4.8		
MOS	III	09 03 02 06.0–2.7	38.40N	142.80E	33	4.9b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=35.7km s-min=16.9km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.7km az=143.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=8.5km az=106.0. Recorded [1 JMA] in Aomori, Iwate, Miyagi and Yamagata.
MOS Error ellipse: s-maj=16.5km s-min=9.5km az=78.3.

ISC	**III**	**09 03 08 33.9–.40**	**38.26N–.04**	**143.28E–.04**	**19–1**	**5.4b**	**1085**	**2-155**
ISCJB	III	09 03 08 32.0–.97	38.27N–.02	143.25E–.02	14–6	6.2s,5.3b		**¶16293275**
JMA	III	09 03 08 33.0–.20	38.36N	143.32E	27	5.8,5.3b		
BJI	III	09 03 08 34.2	38.37N	143.01E	21	5.9,5.5b		
NEIC	III	09 03 08 35.8–1.3	38.31N	143.17E	29–9	5.3b,5.5b		
IDC	III	09 03 08 35.6–.60	38.30N	143.26E	26–3	5.4s,5.4		
MOS	III	09 03 08 35.8–1.6	38.40N	142.80E	33	5.7b,5.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=160.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=140.0. Recorded [2 JMA] in Iwate and Miyagi.
IDC Error ellipse: s-maj=10.8km s-min=9.3km az=133.0.
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=104.2.

ISC	**III**	**09 03 18 58.9–.47**	**38.68N–.04**	**143.18E–.05**	**21–5**	**5.0b**	**353**	**1-149**
IDC	III	09 03 18 55.6–.51	38.65N	143.14E	0	4.6,4.6		**¶16293276**
ISCJB	III	09 03 18 56.4–.78	38.64N–.03	143.17E–.03	15–5	8.3s,4.9b		
JMA	III	09 03 18 57.0–.10	38.61N	143.23E	28–4	5.1,4.9b		
BJI	III	09 03 18 57.3	38.74N	142.99E	21	5.9s,5.7		
MOS	III	09 03 18 59.7–2.2	38.40N	142.80E	33	5.2b,5.7		
NEIC	III	09 03 18 59.7–1.6	38.71N	143.07E	23–11	5.0b,5.7		

ISC Event type se.
IDC Error ellipse: s-maj=13.4km s-min=11.5km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=144.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=104.8.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.4km az=137.0. Recorded [1 JMA] in Miyagi.

ISC	**III**	**09 03 30 46.6–2.6**	**38.67N–.07**	**143.0E–.10**	**10–13**	**3.9b**	**23**	**1-59**
JMA	III	09 03 30 46.3–.10	38.64N	143.25E	28	3.7		**¶17193508**
IDC	III	09 03 30 48.2–1.7	38.96N	142.66E	0	3.8b,3.7		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=42.4km s-min=24.1km az=99.0.

ISC	**III**	**09 03 33 05.4–1.3**	**38.46N–.06**	**143.19E–.10**	**23**	**3.7b**	**23**	**1-74**
IDC	III	09 03 33 01.4–1.6	38.35N	143.39E	0	3.7,3.7b		**¶17193509**
ISCJB	III	09 03 33 02.9–.90	38.41N–.05	143.28E–.08	23	3.7b,3.7b		
JMA	III	09 03 33 03.2–.20	38.43N	143.27E	29–5	3.7,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=51.3km s-min=22.5km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.4km az=18.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**III**	**09 03 40 59.4–.30**	**38.53N**	**143.20E**	**23**	**2.8**		**¶603049250**

JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**III**	**09 03 41 17.7–2.1**	**38.45N–.08**	**143.22E–.10**	**15**		**9**	**1-62**
IDC	III	09 03 41 06.6–16	39.83N	143.80E	0	3.9,3.7b		**¶602651412**
ISCJB	III	09 03 41 16.7–1.3	38.40N–.08	143.43E–.09	15	3.8b,3.7b		
JMA	III	09 03 41 17.0–.20	38.38N	143.38E	15	3.6,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=375.6km s-min=66.4km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=9.7km az=28.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**09 03 43 37.6–1.1**	**38.32N–.07**	**143.48E–.09**	**15**	**3.6b**	**24**	**2-62**
JMA	III	09 03 43 35.7–.20	38.30N	143.50E	17	3.9		**¶17193511**
ISCJB	III	09 03 43 35.6–.78	38.29N–.06	143.54E–.06	15	3.6b		
IDC	III	09 03 43 35.6–1.1	38.28N	143.44E	0	4.0L,3.8		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.1km az=0.1.
IDC Error ellipse: s-maj=29.8km s-min=21.2km az=91.0.

ISC	**III**	**09 03 54 01.7–.61**	**38.51N–.06**	**143.20E–.06**	**15**	**4.0b**	**62**	**1-88**
JMA	III	09 03 53 59.9–.10	38.48N	143.36E	26–4	4.5		**¶16403021**
IDC	III	09 03 53 59.5–.78	38.49N	143.22E	0	4.1,3.9		
ISCJB	III	09 03 54 00.0–.47	38.50N–.05	143.28E–.05	15	4.0b,3.9		
MOS	III	09 03 54 01.9–1.9	38.56N	143.35E	33	4.5b,3.9		
NEIC	III	09 03 54 05.9–.89	38.50N	143.10E	42–7	4.4b,3.9		

ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.4km s-min=17.6km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.8km az=149.7.
MOS Error ellipse: s-maj=13.2km s-min=7.5km az=87.3.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.3km az=120.0.

ISC	**III**	**09 03 55 14.1–.79**	**38.4N–.10**	**143.04E–.07**	**23**	**3.8b**	**20**	**1-88**
IDC	III	09 03 55 10.6–.75	38.41N	143.06E	0	4.0,3.8		**¶17193512**
ISCJB	III	09 03 55 12.4–.63	38.39N–.10	143.17E–.06	23	3.8b,3.8		
JMA	III	09 03 55 13.3–.20	38.48N	143.11E	17	4.0,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=19.2km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.6km az=7.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**09 03 57 32.0–1.3**	**38.4N–.10**	**143.28E–.10**	**15**	**3.7b**	**10**	**1-62**
IDC	III	09 03 57 29.9–1.4	38.17N	143.65E	0	3.8,3.6b		**¶17193513**
ISCJB	III	09 03 57 30.2–1.0	38.3N–.10	143.36E–.08	15	3.7b,3.6b		
JMA	III	09 03 57 32.8–.10	38.40N	143.15E	9–3	3.4,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=57.6km s-min=26.6km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=9.1km az=3.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**09 04 00 00.1–1.5**	**38.61N–.10**	**143.1E–.10**	**23**	**3.3b**	**16**	**1-47**
ISCJB	III	09 03 59 58.5–1.2	38.61N–.10	143.2E–.10	23	3.2b		**¶17193514**
IDC	III	09 03 59 58.4–3.1	38.90N	143.00E	0	3.5,3.4		
JMA	III	09 03 59 58.1–.30	38.62N	143.23E	26	3.4,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=11.0km az=161.0.
IDC Error ellipse: s-maj=75.1km s-min=30.1km az=153.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**III**	**09 04 01 31.6–1.1**	**38.4N–.10**	**143.37E–.10**	**15**	**3.6b**	**18**	**1-62**
IDC	III	09 04 01 29.0–1.2	38.30N	143.42E	0	3.8,3.7b		**¶17193515**
ISCJB	III	09 04 01 29.6–.84	38.34N–.09	143.46E–.08	15	3.6b,3.7b		
JMA	III	09 04 01 32.2–.30	38.37N	143.19E	10	4.1,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=22.0km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=8.6km az=172.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**09 04 04 59.8–.56**	**38.62N–.07**	**143.12E–.06**	**23**	**4.7b**	**161**	**1-88**
IDC	III	09 04 04 56.1–.56	38.56N	143.14E	0	4.5,4.4		**¶16484663**

ISCJB III 09 04 04 58.0–.34 38.63N–.04 143.18E–.04 23 4.6b,4.4
JMA III 09 04 04 58.8–.30 38.61N 143.24E 36 4.4,4.4
MOS III 09 04 04 59.4–1.0 38.66N 143.17E 33 4.8b,4.4
NEIC III 09 04 05 00.2–2.2 38.63N 143.08E 24–15 4.9b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.0km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.8km az=147.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=5.3km az=98.6.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.6km az=133.0.
ISC III 09 04 09 17.6–.61 38.74N–.07 143.22E–.07 23 4.5b 62 1-88
IDC III 09 04 09 13.6–.68 38.67N 143.36E 0 4.4,4.3 **¶16318197**
ISCJB III 09 04 09 15.5–.44 38.67N–.05 143.30E–.06 23 5.6s,4.3b
JMA III 09 04 09 16.9–.40 38.62N 143.13E 17 4.5,4.3b
MOS III 09 04 09 17.5–.89 38.66N 143.30E 42 4.7b,4.3b
NEIC III 09 04 09 19.5–.89 38.66N 143.27E 39–7 4.3b,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=14.1km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=5.0km az=140.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=11.7km s-min=7.5km az=78.1.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.0km az=119.0.
ISC III 09 04 15 38.3–.46 38.70N–.05 143.00E–.05 23 5.3s,4.6b 187 1-117
IDC III 09 04 15 33.7–.57 38.57N 143.14E 0 4.4,4.3 **¶16295215**
BJI III 09 04 15 35.8 38.74N 142.87E 14 5.5b,5.5s
ISCJB III 09 04 15 36.0–.31 38.67N–.03 143.12E–.04 23 5.2s,4.5b
JMA III 09 04 15 36.0–.20 38.60N 143.21E 33 4.9,4.5b
MOS III 09 04 15 37.1–1.1 38.69N 143.11E 32 4.8b,4.5b
NEIC III 09 04 15 40.5–.80 38.69N 142.97E 39–6 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=13.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.3km az=42.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=5.5km az=99.5.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.5km az=121.0.
ISC III 09 04 25 36.8–.77 38.54N–.08 143.23E–.08 23 3.7b 29 1-88
IDC III 09 04 25 33.0–.79 38.48N 143.26E 0 3.9,3.8 **¶17193519**
JMA III 09 04 25 34.7–.20 38.49N 143.23E 18–5 4.1,3.8
ISCJB III 09 04 25 34.6–.58 38.49N–.06 143.29E–.06 23 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 04 32 08.7–.48 38.68N–.04 143.17E–.04 31–2 5.1b 873 1-145
IDC III 09 04 32 04.1–.44 38.62N 143.20E 0 4.8,4.8 **¶16293282**
JMA III 09 04 32 05.5–.30 38.62N 143.28E 22–5 5.1,4.8
ISCJB III 09 04 32 05.7–.73 38.66N–.02 143.14E–.02 19–5 5.4s,5.1b
MOS III 09 04 32 08.2–1.0 38.81N 143.08E 33 5.4b,5.1b
BJI III 09 04 32 08.7 38.72N 142.77E 28 6.0b,5.6s
NEIC III 09 04 32 09.7–.58 38.67N 143.03E 35–5 5.1b,5.6s
ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=10.0km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.5km az=154.2.
MOS Error ellipse: s-maj=6.1km s-min=3.7km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=140.0. Recorded [2 JMA] in Miyagi.
ISC III 09 04 33 29.3–.63 38.66N–.07 143.22E–.06 23 4.8b 72 1-88
IDC III 09 04 33 25.8–.70 38.55N 143.13E 0 4.9,4.8 **¶16400369**
JMA III 09 04 33 27.9–.20 38.52N 143.24E 30 4.7,4.8
ISCJB III 09 04 33 27.3–.42 38.54N–.06 143.23E–.05 23 4.8b,4.8
MOS III 09 04 33 28.7–1.1 38.56N 143.22E 33 5.0b,4.8
NEIC III 09 04 33 31.0–.38 38.51N 143.05E 35 4.8b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=16.2km az=179.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.7km s-min=4.7km az=151.0.
MOS Error ellipse: s-maj=15.1km s-min=8.5km az=88.8.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.1km az=133.0.
ISC III 09 04 37 02.7–.35 38.66N–.03 143.12E–.03 24–2 6.1s,5.6b 1445 1-159
NIED III 09 04 36 00 38.60N 143.20E 23 5.9W,5.6b **¶16293283**
IDC III 09 04 36 59.1–.36 38.63N 143.11E 0 6.0,6.0s
JMA III 09 04 36 59.1–.20 38.61N 143.25E 11–4 6.1,6.0s
BJI III 09 04 37 00.0 38.60N 143.05E 20 6.3b,6.2
ISCJB III 09 04 37 01.1–.66 38.67N–.02 143.06E–.02 20–4 6.1s,5.5b
MOS III 09 04 37 03.4–.86 38.80N 143.01E 33 5.8b,5.5b
NEIC III 09 04 37 05.0–.49 38.67N 142.99E 38–4 5.6b,5.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ66.00000°,λ93.00000°. $M_0$7.56000×10^{17}
IDC Error ellipse: s-maj=10.2km s-min=8.9km az=138.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=160.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=103.7.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=135.0. Recorded [3 JMA] in Iwate and Miyagi.
ISC III 09 04 47 35.8–.63 38.27N–.06 143.45E–.06 15 5.0b 49 2-81
IDC III 09 04 47 33.6–1.4 38.25N 143.47E 0 5.0,4.9 **¶16400370**
ISCJB III 09 04 47 34.4–.47 38.27N–.05 143.39E–.05 15 4.9b,4.9
MOS III 09 04 47 36.0–.72 38.24N 143.51E 33 5.1b,4.9
JMA III 09 04 47 36.9–.20 38.28N 143.26E 22 5.0,4.9
NEIC III 09 04 47 39.6–.69 38.22N 143.25E 35 4.9b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=44.5km s-min=19.9km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=152.1.
MOS Error ellipse: s-maj=19.2km s-min=11.5km az=83.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.6km az=86.0.
ISC III 09 04 59 41.3–.98 38.66N–.08 143.06E–.08 23 3.7b 26 1-63
IDC III 09 04 59 37.4–1.0 38.61N 143.09E 0 3.8,3.8 **¶17193520**
ISCJB III 09 04 59 39.0–.72 38.61N–.06 143.18E–.07 23 3.7b,3.8
JMA III 09 04 59 39.2–.30 38.65N 143.11E 17–4 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=18.0km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.3km az=139.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 05 00 32.0–2.0 38.2N–.20 143.5E–.30 19 3.9b 7 5-62
IDC III 09 05 00 28.6–2.2 38.22N 143.60E 0 4.0,3.9 **¶17193523**
ISCJB III 09 05 00 29.7–1.5 38.1N–.20 143.6E–.30 19 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 05 13 37.6–1.4 38.4N–.10 143.3E–.10 15 3.6b 12 1-62
ISCJB III 09 05 13 35.0–1.1 38.26N–.09 143.4E–.10 15 3.6b **¶600538155**
IDC III 09 05 13 34.1–1.8 38.30N 143.56E 0 3.7,3.6
JMA III 09 05 13 38.6–.20 38.36N 143.11E 13–4 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=11.2km az=41.3.
IDC Error ellipse: s-maj=50.9km s-min=21.7km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 05 27 19.2–.53 38.53N–.06 143.32E–.05 15 5.1s,4.6b 169 1-88
BJI III 09 05 27 16.7 39.37N 143.96E 9 4.9s,4.7 **¶17539285**
IDC III 09 05 27 17.0–.62 38.46N 143.27E 0 4.4,4.3
ISCJB III 09 05 27 17.9–.32 38.55N–.04 143.30E–.04 15 5.1s,4.5b
JMA III 09 05 27 18.4–.30 38.53N 143.31E 23–5 4.4,4.5b
NEIC III 09 05 27 22.8–.89 38.54N 143.27E 40–7 4.6b,4.5b
MOS III 09 05 27 22.0–.96 38.77N 143.13E 33 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=13.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.6km az=146.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.4km az=129.0.
MOS Error ellipse: s-maj=8.4km s-min=4.9km az=103.7.
ISC III 09 05 32 11.6–.67 38.42N–.07 143.57E–.06 15 4.1b 55 2-90

ISCJB III 09 05 32 09.9–.46 38.38N–.05 143.53E–.05 15 4.0b **¶600538161**
IDC III 09 05 32 09.3–.70 38.32N 143.58E 0 4.1,4.0
NEIC III 09 05 32 11.1–3.6 38.32N 143.59E 11–22 4.5b,4.0
JMA III 09 05 32 12.8–.20 38.36N 143.37E 25 3.9,4.0
MOS III 09 05 32 12.1–1.4 38.43N 143.59E 33 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.6km az=151.9.
IDC Error ellipse: s-maj=19.3km s-min=15.9km az=114.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=11.9km s-min=8.5km az=79.5.
ISC III 09 05 51 03.6–1.5 38.64N–.07 143.14E–.10 23 3.6b 16 1-63
IDC III 09 05 50 59.2–2.4 38.59N 143.71E 0 3.7,3.5 **¶600538166**
ISCJB III 09 05 51 02.7–1.1 38.59N–.07 143.24E–.10 23 3.6b,3.5
JMA III 09 05 51 03.3–.20 38.62N 143.13E 13–4 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=66.6km s-min=25.3km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.2km az=44.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 06 10 13.5–1.4 38.4N–.10 143.1E–.10 23 3.9b 11 1-62
IDC III 09 06 10 08.7–1.8 38.43N 143.60E 0 3.8,3.8b **¶17193527**
ISCJB III 09 06 10 11.1–1.0 38.40N–.10 143.21E–.10 23 3.8b,3.8b
JMA III 09 06 10 11.6–.20 38.45N 143.08E 8–3 3.3,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=52.7km s-min=23.5km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=10.4km az=24.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 06 12 14.7–.43 38.61N–.05 143.14E–.05 23 4.8b,4.6s 257 1-130
NIED III 09 06 12 00 38.60N 143.30E 17 4.8W,4.6s **¶16293287**
IDC III 09 06 12 10.9–.59 38.58N 143.09E 0 4.6,4.6s
BJI III 09 06 12 11.2 38.72N 142.97E 7 5.4b,5.0s
NEIC III 09 06 12 12.8–.21 38.63N 143.13E 10 5.0b,5.0s
ISCJB III 09 06 12 12.8–.23 38.62N–.03 143.17E–.03 23 4.7b,4.6s
JMA III 09 06 12 13.0–.20 38.63N 143.23E 26 4.6,4.6s
MOS III 09 06 12 15.3–.95 38.89N 142.97E 29 4.8b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ24.00000°,λ107.00000°. NP2:ϕ_s2.00000°,δ67.00000°,λ83.00000°. $M_0$1.76000×10^{16}
IDC Error ellipse: s-maj=15.3km s-min=13.1km az=118.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=141.0. Recorded [1 JMA] in Iwate and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=146.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=111.4.
ISC III 09 06 13 43.3–.51 38.25N–.07 143.20E–.05 18 5.0b 220 1-88
JMA III 09 06 13 36.6–.20 38.24N 143.65E 6 4.7 **¶16449428**
IDC III 09 06 13 40.5–.65 38.23N 143.22E 0 4.7,4.6
ISCJB III 09 06 13 41.9–.28 38.24N–.04 143.21E–.04 18 5.1s,4.8b
MOS III 09 06 13 44.0–.95 38.27N 143.20E 33 5.1b,4.8b
NEIC III 09 06 13 46.5–.55 38.23N 143.13E 39–4 5.1b,4.8b
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=13.9km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=140.8.
MOS Error ellipse: s-maj=8.0km s-min=5.1km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=130.0. Recorded [1 JMA] in Miyagi.
ISC III 09 06 25 12.5–.42 38.32N–.03 143.18E–.03 15–2 5.2b,5.0s 581 1-154
NIED III 09 06 25 00 38.20N 143.50E 23 5.0W,5.0s **¶16293288**
JMA III 09 06 25 06.4–.20 38.21N 143.57E 6–4 5.1,5.0s
IDC III 09 06 25 09.3–.48 38.21N 143.27E 0 5.0,4.9
ISCJB III 09 06 25 09.9–.90 38.25N–.02 143.13E–.03 8–5 5.1b,5.0s
BJI III 09 06 25 11.8 38.33N 142.82E 13 5.5b,5.3b
NEIC III 09 06 25 14.6–1.4 38.27N 143.05E 27–10 5.0b,5.3b
MOS III 09 06 25 14.9–.79 38.53N 143.03E 33 5.4b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ32.00000°,λ91.00000°. NP2:ϕ_s20.00000°,δ58.00000°,λ90.00000°. $M_0$3.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=10.7km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.0km az=147.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.1km az=135.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=6.3km s-min=3.8km az=110.0.
ISC III 09 06 29 32.5–.64 38.42N–.06 143.28E–.08 23 4.0b 41 1-88
IDC III 09 06 29 28.8–.84 38.42N 143.36E 0 4.1,3.9 **¶602651568**
ISCJB III 09 06 29 30.1–.52 38.40N–.05 143.37E–.06 23 4.0b,3.9
JMA III 09 06 29 31.6–.20 38.49N 143.21E 21 4.1,3.9
MOS III 09 06 29 31.4–1.8 38.52N 143.44E 33 4.4b,3.9
NEIC III 09 06 29 32.3–2.6 38.42N 143.32E 22–19 4.2b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=17.5km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.1km az=135.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=16.0km s-min=11.6km az=83.6.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=92.0.
ISC III 09 06 43 44.9–.85 38.31N–.05 143.27E–.08 15 3.9b 37 1-74
IDC III 09 06 43 42.7–.95 38.30N 143.32E 0 3.9,3.9 **¶17193528**
ISCJB III 09 06 43 43.6–.59 38.35N–.04 143.27E–.05 15 3.8b,3.9
JMA III 09 06 43 45.2–.10 38.36N 143.22E 29 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=15.7km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.9km az=136.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 09 06 59 39.3–2.4 38.64N–.06 143.05E–.08 1–14 3.5b 28 1-63
IDC III 09 06 59 38.8–.99 38.58N 143.12E 0 4.1s,4.1 **¶17193529**
JMA III 09 06 59 40.8–.20 38.61N 143.11E 21–5 3.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=20.0km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 09 07 13 18.6–.10 38.25N 143.61E 15 ¶602651555
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 07 13 48.4–.56 38.23N–.04 143.25E–.04 16–2 5.0b,4.7s 382 1-154
NIED III 09 07 13 00 38.10N 143.60E 23 4.8W,4.7s **¶600538181**
JMA III 09 07 13 43.3–.20 38.13N 143.59E 14–5 4.9,4.7s
IDC III 09 07 13 45.5–.49 38.14N 143.29E 0 4.6,4.5
ISCJB III 09 07 13 47.6–.21 38.23N–.03 143.19E–.03 18 4.8b,4.6s
BJI III 09 07 13 48.1 38.31N 142.82E 10 5.2b,5.0b
NEIC III 09 07 13 50.1–1.6 38.21N 143.16E 24–11 5.0b,5.0b
MOS III 09 07 13 50.1–1.0 38.50N 143.06E 25 5.2b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ36.00000°,λ118.00000°. NP2:ϕ_s9.00000°,δ59.00000°,λ71.00000°. $M_0$1.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=10.6km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=145.1.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=131.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=109.7.
ISC III 09 07 41 05.8–1.5 38.3N–.10 143.4E–.10 15 3.5b 18 2-62
IDC III 09 07 41 02.1–2.4 38.30N 143.70E 0 4.2,4.2s **¶17193531**
ISCJB III 09 07 41 04.1–.98 38.2N–.10 143.43E–.08 15 4.2s,3.4b
JMA III 09 07 41 06.6–.20 38.37N 143.32E 29 3.3,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=66.3km s-min=26.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=8.7km az=173.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 07 45 48.6–.91 38.48N–.06 143.23E–.08 23 3.5b 28 1-74
IDC III 09 07 45 44.9–.88 38.47N 143.40E 0 3.6,3.5 **¶17193532**
ISCJB III 09 07 45 46.7–.68 38.46N–.05 143.28E–.06 23 3.6b,3.5

JMA III 09 07 45 48.0–.10 38.46N 143.20E 28 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=19.4km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.1km az=152.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 09 07 56 29.3–.38 38.74N–.03 143.13E–.03 31–2 5.1b,5.1s 923 1-154
NIED III 09 07 56 00 38.70N 143.00E 17 5.0W,5.1s **¶16293290**
IDC III 09 07 56 24.0–.45 38.61N 143.04E 0 4.9,4.9
JMA III 09 07 56 25.2–.10 38.64N 143.15E 11–2 5.1,4.9
BJI III 09 07 56 26.1 38.75N 142.72E 11 5.3b,5.1b
ISCJB III 09 07 56 27.4–.75 38.81N–.02 142.99E–.02 23–5 5.1s,5.0b
MOS III 09 07 56 30.0–.87 38.98N 142.91E 36 5.4b,5.0s
NEIC III 09 07 56 32.2–.51 38.80N 142.88E 46–4 5.1b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_D200.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_S26.00000°,δ68.00000°,λ92.00000°. $M_0$3.80000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=11.2km az=116.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.4km az=158.3.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=99.7.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=143.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
ISC III 09 08 02 37.4–.36 38.58N–.03 143.32E–.03 29–2 5.1b,5.0s 1062 1-159
NIED III 09 08 02 00 38.60N 143.20E 14 5.2W,5.0s **¶16293291**
JMA III 09 08 02 33.7–.10 38.60N 143.17E 7–2 5.2,5.0s
IDC III 09 08 02 33.0–.38 38.55N 143.16E 0 5.0,4.9
BJI III 09 08 02 35.6 38.66N 142.94E 15 5.3b,5.2s
ISCJB III 09 08 02 35.6–.09 38.60N–.02 143.15E–.02 24 5.1b,5.0s
MOS III 09 08 02 36.9–.91 38.73N 143.16E 33 5.3b,4.4s
NEIC III 09 08 02 38.4–1.1 38.61N 143.08E 30–8 5.2b,4.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S360.00000°,δ40.00000°,λ37.00000°. NP2:ϕ_S240.00000°,δ67.00000°,λ124.00000°. $M_0$6.83000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=9.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.7km az=160.9.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=100.1.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=130.0. Felt at Misawa. Recorded [2 JMA] in Iwate and Miyagi.
ISC III 09 08 39 38.0–3.2 38.42N–.07 143.26E–.08 9–19 3.5b 21 1-62
IDC III 09 08 39 37.0–1.6 38.69N 143.42E 0 3.4,3.3 **¶17193534**
JMA III 09 08 39 41.6–.20 38.49N 143.21E 26–4 3.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=32.7km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 08 55 37.3–.82 38.61N–.04 143.16E–.03 15–4 4.8b,4.2s 316 1-154
NIED III 09 08 55 00 38.60N 143.20E 17 4.4W,4.2s **¶16294225**
IDC III 09 08 55 34.7–.50 38.59N 143.18E 0 4.5,4.5
BJI III 09 08 55 35.3 38.74N 143.01E 10 5.0b,4.9b
JMA III 09 08 55 35.5–.10 38.61N 143.13E 8–2 4.7,4.9b
ISCJB III 09 08 55 36.9–.81 38.64N–.02 143.10E–.03 20–5 4.7b,4.3s
MOS III 09 08 55 39.7–.89 38.86N 142.96E 33 5.0b,4.3s
NEIC III 09 08 55 40.8–.53 38.62N 143.06E 36–4 4.8b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S120.00000°,δ11.00000°,λ162.00000°. NP2:ϕ_S229.00000°,δ87.00000°,λ80.00000°. $M_0$4.63000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=12.0km az=126.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=144.2.
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=106.4.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.7km az=136.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
ISC III 09 09 00 39.9–2.4 38.34N–.07 143.30E–.09 11–12 3.5b 24 1-62
IDC III 09 09 00 37.3–1.9 38.31N 143.53E 0 3.7,3.7 **¶17193535**
ISCJB III 09 09 00 39.4–2.1 38.20N–.05 143.45E–.07 27–17 3.6b,3.7
JMA III 09 09 00 39.2–.20 38.09N 143.31E 17 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=47.9km s-min=21.3km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.6km az=143.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 09 09 53 49.3–.91 38.62N–.07 143.09E–.07 23 3.5b 20 1-88
IDC III 09 09 53 45.6–1.0 38.59N 143.07E 0 3.7,3.7 **¶17193537**
ISCJB III 09 09 53 47.4–.72 38.59N–.07 143.23E–.07 23 3.7s,3.5b
JMA III 09 09 53 48.2–.20 38.62N 143.19E 26–5 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=20.9km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.0km az=167.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 10 13 11.6–2.0 38.4N–.10 143.7E–.20 15 3.5b 13 2-62
IDC III 09 10 13 08.7–2.7 38.37N 143.98E 0 3.5,3.4L **¶16484688**
JMA III 09 10 13 14.9–.30 38.41N 143.33E 24 3.5,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=69.8km s-min=32.0km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 09 10 13 38.5–.41 38.75N–.05 143.18E–.05 23 4.6b,3.6s 253 1-145
NIED III 09 10 13 00 38.70N 143.00E 23 4.3W,3.6s **¶17193540**
BJI III 09 10 13 36.1 38.76N 143.01E 16 5.0b,4.7b
ISCJB III 09 10 13 37.0–.22 38.73N–.03 143.16E–.03 23 4.5b,3.6s
MOS III 09 10 13 38.6–.89 38.77N 143.12E 34 4.8b,3.6s
JMA III 09 10 13 39.2–.10 38.70N 143.08E 33–5 4.2,3.6s
IDC III 09 10 13 40.3–.54 38.63N 143.14E 39–5 4.4,4.3
NEIC III 09 10 13 40.6–.54 38.70N 143.12E 38–5 4.7b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S238.00000°,δ22.00000°,λ69.00000°. NP2:ϕ_S80.00000°,δ69.00000°,λ98.00000°. $M_0$3.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.8km az=152.0.
MOS Error ellipse: s-maj=7.5km s-min=4.7km az=102.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=10.1km az=139.0.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=133.0. Recorded [1 JMA] in Iwate and Miyagi.
ISC III 09 10 18 57.7–1.3 38.84N–.06 143.6E–.10 20 3.6b 25 2-63
NIED III 09 10 18 00 38.80N 143.50E 20 3.9W **¶17193542**
IDC III 09 10 18 55.2–1.8 38.79N 143.59E 0 3.7,3.7
ISCJB III 09 10 18 55.8–.88 38.76N–.06 143.65E–.08 20 3.5b,3.7
JMA III 09 10 18 57.6–.40 38.77N 143.48E 24 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S152.00000°,δ55.00000°,λ22.00000°. NP2:ϕ_S49.00000°,δ72.00000°,λ143.00000°. $M_0$7.52000×10^{14}
IDC Error ellipse: s-maj=47.3km s-min=19.9km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.4km az=27.1.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISC III 09 10 22 53.7–.72 38.50N–.05 143.43E–.07 15 3.5b 38 1-88
IDC III 09 10 22 51.6–.72 38.44N 143.40E 0 3.8,3.6 **¶17193543**
JMA III 09 10 22 52.5–.20 38.52N 143.33E 6–4 4.0,3.6
ISCJB III 09 10 22 52.5–.56 38.51N–.05 143.42E–.05 15 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 10 35 59.4–1.1 38.38N–.07 143.29E–.09 15 3.5b 23 1-62
IDC III 09 10 35 56.5–1.0 38.23N 143.47E 0 3.7,3.5 **¶17193544**
ISCJB III 09 10 35 57.3–.82 38.27N–.07 143.39E–.07 15 3.5b,3.5
JMA III 09 10 35 59.4–.20 38.39N 143.19E 12 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=19.3km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=7.1km az=149.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 10 47 40.9–2.5 38.64N–.06 143.1E–.10 5–13 21 1-59
IDC III 09 10 47 38.4–2.4 38.74N 143.50E 0 3.4,3.3b **¶17193547**
JMA III 09 10 47 41.2–.20 38.66N 143.18E 9–3 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=48.1km s-min=36.8km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 10 52 07.1–1.7 38.32N–.08 143.6E–.10 15 3.3b 17 2-62
IDC III 09 10 52 04.7–2.5 38.32N 143.81E 0 3.6,3.6 **¶17193548**
JMA III 09 10 52 08.3–.30 38.38N 143.46E 31 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=56.5km s-min=30.7km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 09 11 26 11.3–1.5 38.47N–.09 143.5E–.10 15 4.0s,3.7b 16 2-68
IDC III 09 11 26 08.1–2.2 38.41N 143.63E 0 4.0,4.0s **¶17193549**
ISCJB III 09 11 26 09.2–1.1 38.43N–.08 143.59E–.09 15 3.7s,3.5b
JMA III 09 11 26 10.1–.20 38.49N 143.47E 9 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=55.7km s-min=27.5km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=10.2km az=166.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 11 27 51.0–.41 38.50N–.03 143.27E–.03 30–2 5.0s,5.0b 870 1-154
NIED III 09 11 27 00 38.50N 143.20E 11 5.2W,5.0b **¶16294227**
IDC III 09 11 27 46.5–.40 38.51N 143.17E 0 4.7,4.7s
JMA III 09 11 27 47.0–.10 38.55N 143.15E 8–2 5.3,4.7s
ISCJB III 09 11 27 47.5–.79 38.51N–.02 143.13E–.02 13–4 5.0s,4.9b
MOS III 09 11 27 50.6–.96 38.58N 143.02E 33 5.2b,4.8s
BJI III 09 11 27 50.2 38.55N 142.91E 22 5.2s,5.0
NEIC III 09 11 27 52.3–1.2 38.54N 143.04E 34–8 5.1b,5.0
GCMT III 09 11 27 52.3–.20 38.61N 143.11E 17–1 5.2W,5.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S161.00000°,δ52.00000°,λ-29.00000°. NP2:ϕ_S270.00000°,δ68.00000°,λ-138.00000°. $M_0$7.28000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.8km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.1km az=158.1.
MOS Error ellipse: s-maj=6.3km s-min=4.4km az=104.6.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=128.0. Felt at Susono. Recorded [2 JMA] in Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c44; s100,c162; Duration: 1^{s}0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.03±.30 $M_{\theta\theta}$4.14±.24; $M_{\phi\phi}$-2.10±.23; $M_{r\theta}$5.05±.79; $M_{\theta\phi}$-5.84±.19; $M_{\phi r}$0.67±.57; Best double couple: NP1:ϕ_S261.00000°,δ82.00000°,λ-140.00000°. NP2:ϕ_S164.00000°,δ50.00000°,λ-11.00000°. Principal axes: T 9.1550,Plg21.0000°,Azm26.0000°; N -1.4000,Plg49.0000°,Azm271.0000°; P -7.7460,Plg34.0000°,Azm131.0000° $M_0$8.45100×10^{16}
ISC III 09 11 47 19.5–2.6 38.5N–.10 143.1E–.10 9–16 15 1-59
JMA III 09 11 47 21.0–.20 38.56N 143.07E 18–5 3.2 **¶17193550**
IDC III 09 11 47 22.6–2.6 37.76N 143.26E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=52.2km s-min=34.1km az=49.0.
ISC III 09 12 03 17.8–.66 38.33N–.04 143.31E–.04 20–2 4.7b,4.1s 482 1-150
NIED III 09 12 03 00 38.40N 143.20E 11 4.6W,4.1s **¶16295218**
ISCJB III 09 12 03 13.2–.86 38.32N–.03 143.24E–.02 0–5 4.7b,4.1s
IDC III 09 12 03 14.7–.49 38.28N 143.25E 0 4.5,4.4
JMA III 09 12 03 15.4–.10 38.36N 143.18E 13–3 4.8,4.4
BJI III 09 12 03 16.6 38.48N 142.91E 10 5.0b,4.6b
NEIC III 09 12 03 18.0–2.0 38.35N 143.14E 16–12 4.7b,4.6b
MOS III 09 12 03 19.8–1.2 38.61N 143.12E 33 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S13.00000°,δ34.00000°,λ47.00000°. NP2:ϕ_S241.00000°,δ66.00000°,λ115.00000°. $M_0$1.02000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=167.7.
IDC Error ellipse: s-maj=14.0km s-min=10.7km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.8km az=124.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=107.3.
ISC III 09 12 47 59.2–.83 38.35N–.07 143.35E–.08 15 3.6b 32 2-76
NIED III 09 12 47 00 38.30N 143.30E 8 3.7W **¶17193553**
IDC III 09 12 47 56.6–.75 38.22N 143.46E 0 3.8,3.7L
ISCJB III 09 12 47 57.1–.59 38.27N–.06 143.42E–.06 15 3.5b,3.7L
JMA III 09 12 47 58.4–.20 38.32N 143.35E 25 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S48.00000°,δ39.00000°,λ132.00000°. NP2:ϕ_S179.00000°,δ63.00000°,λ62.00000°. $M_0$4.51000×10^{14}
IDC Error ellipse: s-maj=22.4km s-min=15.9km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.1km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 13 00 39.7–1.1 38.83N–.07 143.38E–.09 20 3.6b 28 1-63
NIED III 09 13 00 00 38.80N 143.50E 11 3.8W **¶17193554**
IDC III 09 13 00 35.9–1.1 38.67N 143.36E 0 3.7,3.6
ISCJB III 09 13 00 37.4–.80 38.79N–.06 143.46E–.07 20 3.5b,3.2s
JMA III 09 13 00 38.0–.30 38.76N 143.46E 30 3.6,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S171.00000°,δ34.00000°,λ45.00000°. NP2:ϕ_S41.00000°,δ67.00000°,λ115.00000°. $M_0$5.98000×10^{14}
IDC Error ellipse: s-maj=32.9km s-min=19.6km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.8km az=43.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 09 13 12 09.8–1.3 38.53N–.06 143.5E–.10 15 3.3b 20 2-63
IDC III 09 13 12 08.1–1.6 38.49N 143.58E 0 3.6,3.6 **¶600538263**
ISCJB III 09 13 12 09.2–.96 38.50N–.06 143.39E–.09 15 3.3b,3.6
JMA III 09 13 12 12.8–.20 38.56N 143.22E 32 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=21.7km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.0km az=4.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 13 16 53.4–3.9 38.56N–.06 143.07E–.08 3–24 3.8b 25 1-62
IDC III 09 13 16 52.5–1.1 38.38N 143.31E 0 3.7,3.6b **¶17193557**
JMA III 09 13 16 54.1–.20 38.54N 143.11E 17–4 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=31.0km s-min=19.7km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 13 49 47.3–3.5 38.45N–.05 143.23E–.07 27–25 4.0b,3.5s 74 1-119
NIED III 09 13 49 00 38.50N 143.30E 17 4.2W,3.5s **¶16403022**
IDC III 09 13 49 43.2–.69 38.45N 143.27E 0 4.1,3.9
ISCJB III 09 13 49 43.9–1.3 38.48N–.03 143.29E–.04 17–9 3.9b,3.6s
JMA III 09 13 49 44.8–.20 38.54N 143.26E 22–4 4.3,3.6s
MOS III 09 13 49 45.7–1.3 38.48N 143.37E 33 4.5b,3.6s
NEIC III 09 13 49 48.7–.85 38.45N 143.25E 38–7 4.6b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S250.00000°,δ52.00000°,λ155.00000°. NP2:ϕ_S356.00000°,δ70.00000°,λ40.00000°. $M_0$2.53000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=14.3km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.0km az=143.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=11.0km s-min=7.3km az=85.4.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.1km az=113.0.
JMA III 09 13 59 11.6–.20 38.53N 143.29E 26 3.1 ¶602651297
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 09 13 59 36.6–.20 38.49N 143.32E 24 3.6
NIED III 09 13 59 00 38.50N 143.30E 17 3.8W **¶600538278**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S248.00000°,δ46.00000°,λ143.00000°. NP2:ϕ_S6.00000°,δ64.00000°,λ50.00000°. $M_0$5.05000×10^{14}
ISC III 09 14 03 30.7–1.2 38.52N–.06 143.03E–.08 23 3.5b 23 1-76
NIED III 09 14 03 00 38.50N 143.10E 8 3.8W **¶17193558**
IDC III 09 14 03 27.5–1.8 38.49N 143.33E 0 3.8,3.7
JMA III 09 14 03 28.2–.20 38.53N 143.07E 11–3 4.0,3.7
ISCJB III 09 14 03 29.3–.82 38.55N–.04 143.10E–.07 23 3.4b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S263.00000°,δ43.00000°,λ-144.00000°. NP2:ϕ_S145.00000°,δ66.00000°,λ-53.00000°. $M_0$6.54000×10^{14}
ISCJB Event type ke.

ISC III 09 14 15 51.8–1.3 38.11N–.07 143.3E–.10 19 3.5b 19 2-58
NIED III 09 14 15 00 38.00N 143.30E 17 3.7W **¶17193560**
IDC III 09 14 15 48.0–1.9 38.03N 143.58E 0 3.7,3.7
ISCJB III 09 14 15 49.9–.97 38.06N–.07 143.35E–.09 19 3.5b,3.7
JMA III 09 14 15 51.4–.20 38.05N 143.29E 34 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ36.00000°,λ100.00000°. NP2:ϕ_s16.00000°,δ55.00000°,λ83.00000°. $M_0$4.24000×10^{14}
IDC Error ellipse: s-maj=39.0km s-min=22.8km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=9.4km az=141.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 09 14 24 07.0–.66 38.53N–.04 143.23E–.04 17–3 4.6b,4.2s 236 1-144
NIED III 09 14 24 00 38.60N 143.40E 14 4.6W,4.2s **¶16295227**
IDC III 09 14 24 04.2–.58 38.52N 143.29E 0 4.4,4.3
ISCJB III 09 14 24 04.4–.90 38.55N–.03 143.30E–.03 14–5 4.5b,4.2s
JMA III 09 14 24 05.5–.10 38.56N 143.32E 26 4.7,4.2s
BJI III 09 14 24 06.1 38.59N 142.86E 10 5.0b,4.7b
NEIC III 09 14 24 07.0–.59 38.57N 143.20E 19–3 4.8b,4.7b
MOS III 09 14 24 07.6–1.2 38.66N 143.26E 33 4.6b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ51.00000°,λ151.00000°. NP2:ϕ_s358.00000°,δ67.00000°,λ43.00000°. $M_0$1.05000×10^{16}
IDC Error ellipse: s-maj=15.6km s-min=12.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=144.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.8km az=112.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=8.6km s-min=5.1km az=104.7.
ISC III 09 15 14 24.0–.85 38.28N–.05 143.27E–.06 15 3.6b 34 1-73
NIED III 09 15 14 00 38.40N 143.30E 14 3.9W **¶17193564**
IDC III 09 15 14 22.0–.87 38.19N 143.49E 0 3.8,3.7
ISCJB III 09 15 14 23.1–.61 38.27N–.05 143.35E–.05 15 3.7b,3.7
JMA III 09 15 14 24.9–.20 38.35N 143.27E 29 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ14.00000°,λ-11.00000°. NP2:ϕ_s224.00000°,δ87.00000°,λ-104.00000°. $M_0$7.42000×10^{14}
IDC Error ellipse: s-maj=22.1km s-min=16.8km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.2km az=153.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 15 50 42.9–1.2 38.25N–.05 143.4E–.10 19 3.7b 26 2-62
NIED III 09 15 50 00 38.30N 143.30E 11 3.5W **¶17193566**
IDC III 09 15 50 40.6–1.7 38.19N 143.42E 0 3.8,3.7
ISCJB III 09 15 50 41.2–.84 38.28N–.05 143.41E–.08 19 3.6b,3.7
JMA III 09 15 50 42.4–.20 38.30N 143.34E 29 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s143.00000°,δ35.00000°,λ61.00000°. NP2:ϕ_s357.00000°,δ60.00000°,λ109.00000°. $M_0$1.74000×10^{14}
IDC Error ellipse: s-maj=45.1km s-min=20.4km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.7km az=16.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 16 59 24.2–.53 38.48N–.05 143.24E–.06 23 4.3b,3.4s 122 1-88
NIED III 09 16 59 00 38.50N 143.10E 23 4.4W,3.4s **¶16303954**
JMA III 09 16 59 19.9–.10 38.47N 143.37E 23–4 4.4,3.4s
IDC III 09 16 59 20.5–.64 38.46N 143.10E 0 4.2,4.1
ISCJB III 09 16 59 22.2–.35 38.50N–.03 143.23E–.04 23 4.2b,3.5s
MOS III 09 16 59 24.1–1.3 38.53N 143.18E 33 4.5b,3.5s
NEIC III 09 16 59 25.8–2.3 38.53N 143.11E 34–15 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ26.00000°,λ78.00000°. NP2:ϕ_s28.00000°,δ65.00000°,λ96.00000°. $M_0$4.56000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.0km s-min=13.0km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=144.2.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=101.0.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=6.4km az=124.0. Recorded [1 JMA] in Miyagi.
ISC III 09 18 44 37.3–.37 38.52N–.02 143.33E–.03 20–1 5.9s,5.7b 1784 1-160
NIED III 09 18 44 00 38.50N 143.40E 11 5.8W,5.7b **¶16295231**
BJI III 09 18 44 33.4 38.50N 143.30E 10 6.4s,6.2
IDC III 09 18 44 33.9–.34 38.41N 143.28E 0 5.7,5.7s
ISCJB III 09 18 44 34.1–.56 38.50N–.02 143.27E–.01 6–3 6.0s,5.7b
JMA III 09 18 44 35.7–.20 38.48N 143.43E 36 6.3,5.7b
NEIC III 09 18 44 35.0–.00 38.50N 143.40E 20 6.3,5.7b
MOS III 09 18 44 38.2–1.0 38.68N 143.24E 33 6.0s,5.9b
GCMT III 09 18 44 38.5–.10 38.47N 143.50E 18–0 5.9W,5.9b
NEIC III 09 18 44 38.5–1.2 38.50N 143.17E 24–8 5.9W,5.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ24.00000°,λ80.00000°. NP2:ϕ_s23.00000°,δ66.00000°,λ94.00000°. $M_0$5.90000×10^{17}
IDC Error ellipse: s-maj=9.1km s-min=7.2km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=161.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}2.60 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-2.70 $M_{r\theta}$3.70 $M_{\theta\phi}$-0.50 $M_{\phi r}$7.10 Best double couple: NP1:ϕ_s26.00000°,δ81.00000°,λ95.00000°. NP2:ϕ_s175.00000°,δ10.00000°,λ59.00000°. Principal axes: T 8.5000,Plg53.0000°,Azm302.0000°; N -0.1000,Plg5.0000°,Azm205.0000°; P -8.3000,Plg35.0000°,Azm111.0000° $M_0$8.00000×10^{17}
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=101.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c230; s134,c376;Duration: 2s2 Moment tensor: Scale 10^{17}Nm; M_{rr}4.61±.08 $M_{\theta\theta}$-0.24±.05; $M_{\phi\phi}$-4.36±.06; $M_{r\theta}$3.09±.14; $M_{\theta\phi}$-1.45±.04; $M_{\phi r}$6.49±.21; Best double couple: NP1:ϕ_s24.00000°,δ73.00000°,λ94.00000°. NP2:ϕ_s190.00000°,δ17.00000°,λ77.00000°. Principal axes: T 8.5260,Plg61.0000°,Azm300.0000°; N 0.1490,Plg4.0000°,Azm203.0000°; P -8.6690,Plg28.0000°,Azm111.0000° $M_0$8.59700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=144.0. Felt at Misawa and Tokyo. Recorded [3 JMA] in Miyagi.
ISC III 09 19 16 27.6–2.4 38.68N–.06 143.24E–.06 3–14 4.0b 69 1-88
IDC III 09 19 16 26.9–.65 38.64N 143.39E 0 4.1,4.0 **¶16409224**
JMA III 09 19 16 28.4–.10 38.68N 143.17E 6–2 4.3,4.0
NEIC III 09 19 16 28.6–.46 38.68N 143.41E 10 4.1b,4.0
MOS III 09 19 16 30.0–1.0 38.75N 143.34E 33 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=13.8km az=130.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.7km az=137.0.
MOS Error ellipse: s-maj=10.8km s-min=6.3km az=88.5.
ISC III 09 19 19 49.8–.93 38.60N–.07 143.26E–.09 23 3.9b 37 1-80
IDC III 09 19 19 45.8–1.3 38.54N 143.38E 0 3.8,3.8b **¶16409225**
NEIC III 09 19 19 47.6–.83 38.60N 143.36E 10 4.4b,3.8b
ISCJB III 09 19 19 48.0–.72 38.58N–.05 143.30E–.07 23 3.8b,3.8b
JMA III 09 19 19 49.1–.20 38.59N 143.21E 27–4 4.2,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=23.1km az=130.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=10.0km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.8km az=43.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 19 23 19.6–3.0 39.18N–.07 143.19E–.08 2–16 3.5b 31 1-59
IDC III 09 19 23 17.9–1.6 39.27N 143.64E 0 3.6,3.5 **¶17193574**
JMA III 09 19 23 21.8–.10 39.08N 143.10E 11–1 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=36.5km s-min=24.8km az=85.0.
ISC III 09 20 03 28.3–1.5 38.55N–.07 143.5E–.10 15 3.6b 26 1-59
IDC III 09 20 03 24.0–2.4 38.44N 143.91E 0 3.7,3.6 **¶17193577**
JMA III 09 20 03 28.5–.20 38.53N 143.41E 28 3.7,3.6
ISCJB III 09 20 03 28.2–1.1 38.54N–.06 143.37E–.09 15 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 22 04 48.2–1.9 38.25N–.07 143.1E–.10 19 3.4b 16 1-58
IDC III 09 22 04 50.7–2.7 37.25N 144.06E 0 3.5,3.4b **¶17193582**
JMA III 09 22 04 51.6–.20 38.57N 143.04E 6–2 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=31.2km az=65.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 09 22 23 31.8–.96 38.02N–.06 143.05E–.08 18 3.7b 28 1-58
JMA III 09 22 23 27.4–.20 38.10N 143.37E 15–3 4.2 **¶17193583**
IDC III 09 22 23 29.2–1.2 38.05N 143.14E 0 3.8,3.8
ISCJB III 09 22 23 29.4–.76 38.08N–.06 143.27E–.07 18 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 23 33 04.3–1.6 38.55N–.07 143.4E–.10 15 3.8b 21 1-59
IDC III 09 23 33 01.2–2.7 38.53N 143.64E 0 3.7,3.6b **¶17193588**
ISCJB III 09 23 33 03.1–1.2 38.53N–.06 143.41E–.10 15 3.5b,3.6b
JMA III 09 23 33 04.3–.20 38.55N 143.39E 28 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=69.4km s-min=30.6km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.1km az=24.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 09 23 35 14.2–.30 38.42N 143.34E 16 2.8
¶602651064
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 09 23 36 59.3–.54 38.46N–.03 143.24E–.03 26–3 5.4b,4.8s 1348 1-160
NIED III 09 23 36 00 38.40N 143.40E 8 5.0W,4.8s **¶16299022**
IDC III 09 23 36 55.2–.33 38.39N 143.25E 0 5.2,5.2
ISCJB III 09 23 36 55.2–.82 38.39N–.02 143.25E–.02 9–5 5.4b,4.9s
JMA III 09 23 36 56.1–.10 38.39N 143.41E 35 5.2,4.9s
MOS III 09 23 36 57.9–.81 38.63N 143.14E 19 5.6b,4.5s
NEIC III 09 23 36 58.7–1.2 38.40N 143.17E 20–7 5.4b,4.5s
BJI III 09 23 37 00.4 38.45N 142.77E 33 5.5b,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ37.00000°,λ95.00000°. NP2:ϕ_s45.00000°,δ53.00000°,λ86.00000°. $M_0$3.39000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=8.6km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=5.5km s-min=3.6km az=101.1.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=137.0. Recorded [2 JMA] in Miyagi.
ISC III 09 23 43 51.4–.69 38.16N–.05 143.07E–.06 18 4.0b 56 1-81
IDC III 09 23 43 48.5–1.0 38.17N 143.20E 0 3.9,3.8 **¶16449427**
ISCJB III 09 23 43 49.9–.46 38.13N–.04 143.09E–.04 18 4.1b,3.8
JMA III 09 23 43 51.1–.20 38.14N 143.06E 33–5 4.1,3.8
NEIC III 09 23 43 53.6–1.3 38.18N 143.14E 33–7 4.7b,3.8
MOS III 09 23 43 53.4–3.0 38.10N 142.77E 33 4.9b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=18.9km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=158.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=13.8km az=117.0.
MOS Error ellipse: s-maj=16.1km s-min=8.6km az=77.8.
ISC III 09 23 54 44.0–2.5 38.18N–.07 143.01E–.08 3–13 3.9b 27 1-61
IDC III 09 23 54 42.9–1.4 38.17N 143.27E 0 3.9,3.9b **¶17193589**
JMA III 09 23 54 46.0–.20 38.15N 143.04E 26–4 3.8,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=30.8km s-min=23.8km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 09 23 56 52.5–.10 38.39N 143.20E 11–4 2.9
¶602651057
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 09 23 57 41.5–.44 38.33N–.04 143.29E–.04 19–1 4.8b,4.7s 310 1-146
NIED III 09 23 57 00 38.40N 143.30E 11 4.9W,4.7s **¶16298790**
BJI III 09 23 57 38.4 38.37N 143.02E 2 5.2b,4.9s
JMA III 09 23 57 39.8–.20 38.38N 143.30E 25–5 4.9,4.9s
ISCJB III 09 23 57 39.0–.97 38.30N–.03 143.30E–.03 13–6 4.7b,4.7s
NEIC III 09 23 57 41.5–1.7 38.24N 143.29E 20–12 4.9b,4.7s
IDC III 09 23 57 42.0–.54 38.29N 143.31E 24–2 4.4,4.3
MOS III 09 23 57 43.0–1.1 38.50N 143.24E 33 5.0b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ65.00000°,λ-165.00000°. NP2:ϕ_s163.00000°,δ76.00000°,λ-26.00000°. $M_0$2.18000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=152.6.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=132.0. Recorded [1 JMA] in Miyagi.
IDC Error ellipse: s-maj=12.4km s-min=10.4km az=130.0.
MOS Error ellipse: s-maj=9.4km s-min=6.4km az=105.8.
ISC III 10 00 04 28.7–2.2 38.8N–.10 143.5E–.10 20 3.5b 12 1-59
IDC III 10 00 04 26.5–2.6 38.57N 143.87E 0 3.5,3.5b **¶17193590**
JMA III 10 00 04 29.3–.20 38.73N 143.49E 36 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=69.1km s-min=30.8km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 10 00 28 37.5–1.2 38.71N–.10 143.5E–.10 15 3.5b 14 1-77
IDC III 10 00 28 35.0–1.3 38.51N 143.65E 0 4.0s,4.0 **¶17193593**
ISCJB III 10 00 28 35.7–.89 38.64N–.09 143.53E–.08 15 4.5s,3.5b
JMA III 10 00 28 38.0–.10 38.76N 143.48E 29 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=34.9km s-min=26.2km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=8.5km az=18.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 10 00 46 36.2–.45 38.29N–.05 143.39E–.06 15 4.3b 112 2-88
NIED III 10 00 46 00 38.40N 143.30E 8 4.3W **¶16449436**
IDC III 10 00 46 34.5–.56 38.31N 143.34E 0 4.1,4.0
ISCJB III 10 00 46 34.8–.29 38.30N–.03 143.35E–.04 15 4.3b,4.0
MOS III 10 00 46 37.5–1.2 38.38N 143.30E 33 4.7b,4.0
JMA III 10 00 46 37.0–.20 38.37N 143.26E 24 4.3,4.0
NEIC III 10 00 46 39.7–.92 38.30N 143.34E 36–8 4.8b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ57.00000°,λ-146.00000°. NP2:ϕ_s161.00000°,δ62.00000°,λ-38.00000°. $M_0$3.23000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=12.4km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=136.8.
MOS Error ellipse: s-maj=9.7km s-min=6.9km az=101.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.7km az=100.0.
ISC III 10 01 20 22.2–.49 38.37N–.04 143.15E–.04 22–4 4.8b,4.4s 330 1-144
NIED III 10 01 20 00 38.40N 143.20E 17 4.7W,4.4s **¶16298677**
IDC III 10 01 20 18.8–.54 38.35N 143.14E 0 4.5,4.5
BJI III 10 01 20 19.6 38.44N 143.23E 24 5.1b,4.8b
ISCJB III 10 01 20 19.9–.86 38.36N–.03 143.16E–.04 16–5 4.7b,4.4s
JMA III 10 01 20 20.7–.20 38.36N 143.21E 30–5 4.7,4.4s
MOS III 10 01 20 22.6–.96 38.40N 143.10E 33 5.0b,4.4s
NEIC III 10 01 20 23.2–1.4 38.38N 143.11E 27–10 4.9b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ25.00000°,λ83.00000°. NP2:ϕ_s27.00000°,δ66.00000°,λ93.00000°. $M_0$1.15000×10^{16}
IDC Error ellipse: s-maj=14.4km s-min=11.5km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=38.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=110.4.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=3.9km az=115.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
ISC III 10 03 54 54.9–.55 38.32N–.06 143.40E–.06 15 4.2b 84 2-88
NIED III 10 03 54 00 38.40N 143.40E 8 4.1W **¶602651888**
ISCJB III 10 03 54 52.8–.45 38.33N–.04 143.43E–.05 15 4.2b,3.0s
MOS III 10 03 54 54.9–1.2 38.29N 143.44E 33 4.5b,3.0s
JMA III 10 03 54 54.0–.20 38.35N 143.44E 38 4.3,3.0s
IDC III 10 03 54 56.1–.48 38.26N 143.44E 26–3 4.1,4.0
NEIC III 10 03 54 57.2–2.7 38.31N 143.43E 34–19 4.6b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ45.00000°,λ80.00000°. NP2:ϕ_s231.00000°,δ46.00000°,λ100.00000°. $M_0$1.64000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.7km az=137.8.

MOS Error ellipse: s-maj=10.0km s-min=6.3km az=94.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=11.5km az=125.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.6km az=120.0.
ISC III 10 04 13 58.7–.52 38.41N–.05 143.38E–.05 15 4.3b,3.8s 138 1-117
NIED III 10 04 13 00 38.40N 143.50E 17 4.3W,3.8s **¶16304924**
JMA III 10 04 13 55.6–.10 38.36N 143.52E 13–3 4.5,3.8s
IDC III 10 04 13 56.5–.59 38.34N 143.36E 0 4.1,4.1
ISCJB III 10 04 13 56.5–.33 38.34N–.03 143.45E–.04 15 4.2b,3.6s
NEIC III 10 04 13 59.9–1.9 38.40N 143.35E 22–13 4.5b,3.6s
MOS III 10 04 13 59.6–1.1 38.42N 143.35E 33 4.6b,3.6s
BJI III 10 04 14 00.5 38.39N 143.03E 28 4.9b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ34.00000°,λ96.00000°. NP2:ϕ_s34.00000°,δ56.00000°,λ86.00000°. $M_0$2.76000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=13.3km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=147.7.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.7km az=124.0.
MOS Error ellipse: s-maj=9.2km s-min=6.2km az=106.2.
ISC III 10 06 02 42.9–1.3 36.29N–.04 142.28E–.10 15 3.7b 22 1-56
IDC III 10 06 02 40.7–2.8 36.23N 142.45E 0 3.6,3.6 **¶17193607**
ISCJB III 10 06 02 41.8–1.1 36.31N–.04 142.36E–.10 15 3.6b,3.6
JMA III 10 06 02 44.9–.20 36.30N 142.21E 70 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=80.1km s-min=28.3km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.0km az=175.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 10 06 51 48.3–4.4 38.41N–.06 143.30E–.09 18–21 3.6b 33 1-62
NIED III 10 06 51 00 38.40N 143.30E 20 3.8W **¶17193609**
IDC III 10 06 51 44.9–1.0 38.35N 143.43E 0 3.7,3.6
JMA III 10 06 51 46.9–.20 38.41N 143.32E 28 3.7,3.6
ISCJB III 10 06 51 47.6–1.9 38.38N–.04 143.34E–.06 32–15 3.6b,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ26.00000°,λ63.00000°. NP2:ϕ_s48.00000°,δ67.00000°,λ102.00000°. $M_0$6.39000×10^{14}
ISCJB Event type ke.
ISC III 10 07 03 06.9–1.1 38.26N–.09 143.35E–.10 15 3.5b 14 2-62
IDC III 10 07 03 04.6–1.2 38.28N 143.48E 0 3.7,3.5 **¶600538523**
ISCJB III 10 07 03 05.3–.88 38.27N–.09 143.37E–.08 15 3.5b,3.5
JMA III 10 07 03 08.3–.20 38.37N 143.23E 27 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=22.4km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=7.8km az=161.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 10 07 47 23.4–2.1 37.8N–.10 143.0E–.10 18 3.5b 9 1-62
IDC III 10 07 47 24.9–2.6 37.42N 143.57E 0 3.5,3.4 **¶17193611**
JMA III 10 07 47 25.8–.20 38.12N 143.20E 36 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=73.0km s-min=25.3km az=59.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 10 08 08 20.7–.37 38.64N–.03 143.37E–.03 23–2 5.4s,5.3b 1228 1-159
NIED III 10 08 08 00 38.50N 143.70E 11 5.6W,5.3b **¶16298689**
IDC III 10 08 08 16.6–.41 38.56N 143.43E 0 5.3,5.3s
ISCJB III 10 08 08 16.7–.66 38.59N–.02 143.40E–.02 6–4 5.5s,5.3b
BJI III 10 08 08 17.7 38.61N 143.16E 12 6.0s,5.9
JMA III 10 08 08 18.1–.10 38.57N 143.54E 34 5.9,5.9
NEIC III 10 08 08 20.6–.50 38.60N 143.27E 17–3 5.6W,5.4b
GCMT III 10 08 08 20.6–.10 38.53N 143.61E 17–0 5.7W,5.4b
MOS III 10 08 08 22.5–1.0 38.89N 143.25E 33 5.5b,5.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ29.00000°,λ70.00000°. NP2:ϕ_s28.00000°,δ63.00000°,λ101.00000°. $M_0$2.41000×10^{17}
IDC Error ellipse: s-maj=12.3km s-min=10.3km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=165.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=2.8km az=149.0. Recorded [2 JMA] in Fukushima, Iwate, Miyagi and Yamagata. Moment Tensor Solution. s56 Moment tensor: Scale 10^{17}Nm; M_{rr}1.96 $M_{\theta\theta}$-0.54 $M_{\phi\phi}$-1.41 $M_{r\theta}$1.73 $M_{\theta\phi}$-0.64 $M_{\phi r}$2.24 Best double couple: NP1:ϕ_s203.00000°,δ17.00000°,λ77.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ94.00000°. Principal axes: T 3.5000,Plg61.0000°,Azm312.0000°; N -0.2300,Plg4.0000°,Azm215.0000° ; P -3.2600,Plg28.0000°,Azm123.0000° $M_0$3.40000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s106,c193; s135,c337;Duration: 1$\hat{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.08±.04 $M_{\theta\theta}$-0.12±.02; $M_{\phi\phi}$-1.96±.03; $M_{r\theta}$1.50±.08; $M_{\theta\phi}$-0.64±.02; $M_{\phi r}$2.83±.11; Best double couple: NP1:ϕ_s26.00000° ,δ73.00000°,λ95.00000°. NP2:ϕ_s188.00000°,δ17.00000°,λ73.00000°. Principal axes: T 3.8280,Plg61.0000°,Azm304.0000°; N 0.0280,Plg5.0000°,Azm205.0000° ; P -3.8540,Plg28.0000°,Azm112.0000° $M_0$3.84100×10^{17}
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=104.7.
ISC III 10 08 59 18.8–.74 38.55N–.05 143.40E–.05 20–3 4.6b,4.6s 237 1-145
NIED III 10 08 59 00 38.60N 143.40E 23 4.8W,4.6s **¶16304926**
IDC III 10 08 59 15.6–.57 38.51N 143.31E 0 4.3,4.3
ISCJB III 10 08 59 16.3–.99 38.58N–.03 143.36E–.03 14–6 4.8s,4.5b
JMA III 10 08 59 16.9–.10 38.58N 143.42E 33 4.8,4.5b
BJI III 10 08 59 17.8 38.68N 142.97E 10 5.4b,5.1s
MOS III 10 08 59 19.0–1.3 38.63N 143.37E 33 4.9b,5.1s
NEIC III 10 08 59 19.8–1.6 38.56N 143.35E 25–11 4.9b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_s22.00000°,δ58.00000°,λ92.00000°. $M_0$2.11000×10^{16}
IDC Error ellipse: s-maj=14.7km s-min=12.7km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.5km az=146.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=4.9km az=104.3.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=135.0. Recorded [1 JMA] in Miyagi.
ISC III 10 09 02 21.6–.36 38.67N–.03 143.29E–.03 25–2 5.3s,5.3b 1155 1-159
NIED III 10 09 02 00 38.60N 143.50E 14 5.3W,5.3b **¶602651810**
JMA III 10 09 02 18.0–.20 38.59N 143.46E 23–5 5.4,5.3b
BJI III 10 09 02 18.2 38.66N 143.02E 8 5.6b,5.5s
IDC III 10 09 02 20.0–3.0 38.59N 143.31E 15–18 4.9,4.9
ISCJB III 10 09 02 19.3–.70 38.60N–.02 143.25E–.02 18–4 5.2s,5.2b
MOS III 10 09 02 22.9–.81 38.92N 143.06E 33 5.5b,5.3s
GCMT III 10 09 02 23.7–.10 38.62N 143.42E 23–0 5.3W,5.3s
NEIC III 10 09 02 24.0–.42 38.62N 143.12E 38–3 5.2b,5.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ26.00000°,λ95.00000°. NP2:ϕ_s19.00000°,δ64.00000°,λ88.00000°. $M_0$8.48000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=9.2km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=158.2.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=105.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c111; s123,c219; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.03 $M_{\theta\theta}$-0.11±.01; $M_{\phi\phi}$-0.67±.02; $M_{r\theta}$0.34±.02; $M_{\theta\phi}$-0.17±.01; $M_{\phi r}$0.79±.03; Best double couple: NP1:ϕ_s21.00000°,δ69.00000° ,λ93.00000°. NP2:ϕ_s191.00000°,δ21.00000°,λ81.00000°. Principal axes: T 1.1830,Plg65.0000°,Azm297.0000°; N -0.0720,Plg3.0000°,Azm200.0000° ; P -1.1110,Plg24.0000°,Azm108.0000° $M_0$1.14700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=138.0. Recorded [1 JMA] in Iwate, Miyagi and Yamagata.
JMA III 10 09 07 55.7–.30 38.41N 143.38E 34 3.7 ¶602651809
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 10 09 26 31.6–2.7 38.64N–.05 143.45E–.06 0–16 4.2b 86 1-88
NIED III 10 09 26 00 38.60N 143.40E 11 4.3W **¶16451960**
ISCJB III 10 09 26 31.6–1.4 38.58N–.04 143.48E–.04 12–8 4.2b,3.8s
IDC III 10 09 26 31.5–.59 38.51N 143.39E 0 4.2,4.1
JMA III 10 09 26 34.0–.20 38.59N 143.44E 36 4.3,4.1
MOS III 10 09 26 35.1–1.4 38.65N 143.34E 33 4.4b,4.1
NEIC III 10 09 26 35.0–2.6 38.57N 143.41E 22–18 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ29.00000°,λ70.00000°. NP2:ϕ_s35.00000°,δ63.00000°,λ101.00000°. $M_0$2.87000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.6km az=147.0.
IDC Error ellipse: s-maj=17.2km s-min=13.0km az=106.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=6.1km az=94.6.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.9km az=115.0.
ISC III 10 11 11 59.1–.83 38.52N–.06 143.42E–.08 15 3.6b 22 1-88
NIED III 10 11 11 00 38.50N 143.40E 26 3.7W **¶17193617**
IDC III 10 11 11 56.6–.86 38.43N 143.68E 0 3.8,3.6
ISCJB III 10 11 11 57.4–.62 38.48N–.05 143.45E–.05 15 3.5b,3.6
JMA III 10 11 11 59.9–.10 38.54N 143.38E 30 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ43.00000°,λ91.00000°. NP2:ϕ_s201.00000°,δ47.00000°,λ89.00000°. $M_0$4.66000×10^{14}
IDC Error ellipse: s-maj=26.6km s-min=17.5km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.0km az=175.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 10 11 21 08.4–.41 38.58N–.04 143.22E–.03 26–2 5.2b,5.0s 972 1-145
NIED III 10 11 21 00 38.50N 143.40E 14 5.1W,5.0s **¶16298807**
IDC III 10 11 21 04.5–.50 38.52N 143.17E 0 4.9,4.9
ISCJB III 10 11 21 05.0–.73 38.56N–.02 143.14E–.02 11–4 5.2b,5.0s
BJI III 10 11 21 05.6 38.55N 142.91E 14 5.3s,5.2b
JMA III 10 11 21 05.0–.20 38.52N 143.31E 23 5.2,5.2b
GCMT III 10 11 21 09.1–.20 38.58N 143.25E 22–0 5.2W,5.2b
NEIC III 10 11 21 09.2–1.2 38.59N 143.04E 25–8 5.2b,5.2b
MOS III 10 11 21 10.0–.85 38.87N 142.98E 33 5.5b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ25.00000°,λ94.00000°. NP2:ϕ_s19.00000°,δ65.00000°,λ88.00000°. $M_0$5.04000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.3km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.1km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c86; s108,c174; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.55±.16 $M_{\theta\theta}$-0.57±.10; $M_{\phi\phi}$-3.98±.11; $M_{r\theta}$2.26±.17; $M_{\theta\phi}$-1.15±.06; $M_{\phi r}$4.39±.19; Best double couple: NP1:ϕ_s24.00000°,δ69.00000° ,λ95.00000°. NP2:ϕ_s191.00000°,δ21.00000°,λ77.00000°. Principal axes: T 6.7840,Plg66.0000°,Azm303.0000°; N -0.2920,Plg5.0000°,Azm203.0000° ; P -6.4940,Plg24.0000°,Azm111.0000° $M_0$6.63900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=139.0. Recorded [2 JMA] in Miyagi.
MOS Error ellipse: s-maj=5.7km s-min=3.4km az=105.8.
ISC III 10 11 29 37.7–.52 38.29N–.06 143.30E–.06 15 4.3b 76 2-145
NIED III 10 11 29 00 38.30N 143.30E 8 4.1W **¶16451961**
IDC III 10 11 29 35.6–.57 38.24N 143.17E 0 4.3,4.2
ISCJB III 10 11 29 36.1–.41 38.28N–.04 143.26E–.04 15 4.2b,4.2
JMA III 10 11 29 37.2–.10 38.30N 143.29E 34 4.3,4.2
NEIC III 10 11 29 38.7–2.7 38.25N 143.24E 21–19 4.7b,4.2
MOS III 10 11 29 38.6–1.3 38.38N 143.26E 33 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ45.00000°,λ83.00000°. NP2:ϕ_s12.00000°,δ45.00000°,λ97.00000°. $M_0$1.51000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=13.8km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=152.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=7.7km az=109.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=11.1km s-min=7.9km az=85.0.
JMA III 10 11 44 42.8–.40 38.73N 143.25E 10–4 2.1 ¶602651762
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 10 11 45 41.3–2.0 38.21N–.05 143.04E–.07 3–11 3.8b 31 1-68
NIED III 10 11 45 00 38.40N 143.30E 14 3.9W **¶17193620**
JMA III 10 11 45 43.9–.20 38.41N 143.25E 35 4.1
IDC III 10 11 45 48.1–2.7 38.27N 143.22E 53–25 3.8,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ29.00000°,λ100.00000°. NP2:ϕ_s20.00000°,δ61.00000°,λ84.00000°. $M_0$8.03000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=29.3km s-min=15.9km az=97.0.
ISC III 10 13 38 28.9–1.2 38.67N–.07 143.07E–.08 23 3.5b 17 1-59
NIED III 10 13 38 00 38.60N 143.10E 14 3.9W **¶17193630**
IDC III 10 13 38 25.4–1.5 38.63N 143.22E 0 3.5,3.3
ISCJB III 10 13 38 26.8–.99 38.58N–.08 143.28E–.09 23 3.3b,3.3
JMA III 10 13 38 27.7–.20 38.60N 143.11E 11–3 3.6,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s74.00000°,δ44.00000°,λ109.00000°. NP2:ϕ_s228.00000°,δ49.00000°,λ73.00000°. $M_0$6.71000×10^{14}
IDC Error ellipse: s-maj=39.1km s-min=26.1km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.8km az=141.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 10 14 45 29.9–.63 39.17N–.04 143.42E–.05 20 4.0b,3.6s 68 1-74
NIED III 10 14 45 00 39.10N 143.40E 14 4.0W,3.6s **¶602651675**
ISCJB III 10 14 45 28.4–.43 39.20N–.04 143.48E–.05 20 4.1b,3.5s
JMA III 10 14 45 30.3–.10 39.14N 143.39E 38 4.0,3.5s
NEIC III 10 14 45 31.9–2.7 39.21N 143.38E 30–18 4.4b,3.5s
MOS III 10 14 45 31.8–1.4 39.29N 143.46E 46 4.4b,3.5s
IDC III 10 14 45 33.0–3.2 39.17N 143.40E 39–26 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ32.00000°,λ42.00000°. NP2:ϕ_s37.00000°,δ69.00000°,λ115.00000°. $M_0$1.28000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=141.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=8.2km az=120.0.
MOS Error ellipse: s-maj=9.4km s-min=6.2km az=94.5.
IDC Error ellipse: s-maj=23.2km s-min=18.3km az=132.0.
ISC III 10 15 34 16.3–.98 38.53N–.06 143.18E–.08 23 3.5b 29 1-68
NIED III 10 15 34 00 38.50N 143.20E 20 3.9W **¶17193637**
IDC III 10 15 34 13.8–1.0 38.55N 143.13E 0 3.6,3.5
ISCJB III 10 15 34 14.9–.73 38.57N–.05 143.24E–.07 23 3.8s,3.5b
JMA III 10 15 34 15.3–.20 38.52N 143.21E 25–4 3.9,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ27.00000°,λ80.00000°. NP2:ϕ_s30.00000°,δ63.00000°,λ95.00000°. $M_0$8.67000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=18.4km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.2km az=37.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 10 15 51 27.8–1.1 38.36N–.06 143.52E–.08 15 3.6b 36 2-62
NIED III 10 15 51 00 38.40N 143.50E 11 3.7W **¶17193639**
IDC III 10 15 51 25.3–1.2 38.26N 143.56E 0 3.7,3.7
ISCJB III 10 15 51 26.1–.69 38.36N–.04 143.53E–.06 15 3.5b,3.7
JMA III 10 15 51 27.1–.10 38.37N 143.53E 27 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ35.00000°,λ74.00000°. NP2:ϕ_s34.00000°,δ57.00000°,λ101.00000°. $M_0$4.23000×10^{14}
IDC Error ellipse: s-maj=31.6km s-min=17.7km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.8km az=26.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 10 16 54 47.8–.56 38.04N–.03 143.33E–.03 24–3 5.2b,4.9s 793 2-154
NIED III 10 16 54 00 38.10N 143.60E 8 5.1W,4.9s **¶16298995**
JMA III 10 16 54 42.2–.20 38.06N 143.60E 18–5 5.4,4.9s
ISCJB III 10 16 54 43.4–.76 38.04N–.02 143.31E–.02 3–4 5.1b,4.9s
IDC III 10 16 54 44.3–.36 38.04N 143.32E 0 4.8,4.8
GCMT III 10 16 54 45.0–.40 38.10N 143.29E 12 5.0W,4.8
MOS III 10 16 54 45.9–.91 38.14N 143.27E 18 5.3b,4.3s
NEIC III 10 16 54 45.0–.51 38.05N 143.30E 4–3 5.2b,4.3s
BJI III 10 16 54 46.3 38.12N 142.87E 11 5.3b,5.2s
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ44.00000°,λ39.00000°. NP2:ϕ_s259.00000°,δ64.00000°,λ127.00000°. $M_0$5.54000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=157.0.
IDC Error ellipse: s-maj=10.5km s-min=9.1km az=129.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c48; s36,c67; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.24±.20 $M_{\theta\theta}$-1.82±.19; $M_{\phi\phi}$-1.43±.18; $M_{r\theta}$-0.24±.54; $M_{\theta\phi}$-3.73±.14; $M_{\phi r}$0.89±.50; Best double couple: NP1:ϕ_s23.00000°,δ54.00000°,λ55.00000°. NP2:ϕ_s252.00000°,δ48.00000°,λ128.00000°. Principal axes: T 3.6790,Plg63.0000°,Azm232.0000°; N 1.6940,Plg27.0000°,Azm45.0000°; P -5.3830,Plg3.0000°,Azm136.0000° $M_0$4.53100×10^{16}
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=104.1.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=139.0. Recorded [2 JMA] in Miyagi.

ISC	**III**	**10 19 24 00.4–1.5**	**38.28N–.07**	**143.1E–.10**	**23**	**3.5b**	**22**	**1-48**
IDC	III	10 19 23 57.0–3.0	38.47N	143.47E	0	3.3,3.3b		¶17193650
JMA	III	10 19 24 01.7–.10	38.28N	142.93E	30–2	3.1,3.3b		
ISCJB	III	10 19 24 01.8–1.2	38.27N–.06	142.90E–.09	23	3.3b,3.3b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**10 19 29 12.2–1.4**	**38.37N–.07**	**143.5E–.10**	**15**	**3.3b**	**22**	**2-59**
IDC	III	10 19 29 09.0–1.9	38.30N	143.72E	0	3.4,3.3		¶17193651
ISCJB	III	10 19 29 10.3–1.1	38.40N–.07	143.53E–.09	15	3.2b,3.3		
JMA	III	10 19 29 11.1–.20	38.34N	143.52E	28	3.2,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=41.6km s-min=25.9km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=6.8km az=40.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**10 19 53 37.8–1.8**	**38.74N–.06**	**143.4E–.10**	**15**		**26**	**1-45**
IDC	III	10 19 53 32.7–4.6	38.68N	143.76E	0	3.7,3.6		¶17193652
ISCJB	III	10 19 53 34.9–1.0	38.68N–.05	143.55E–.08	15	3.2b,3.6		
JMA	III	10 19 53 36.2–.20	38.71N	143.49E	23	3.4,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=79.4km s-min=25.4km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.9km az=28.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**10 20 10 50.7–.97**	**38.33N–.05**	**143.25E–.07**	**23**	**3.5b**	**32**	**1-59**
IDC	III	10 20 10 48.3–1.2	38.28N	143.19E	0	3.7,3.6		¶17193655
ISCJB	III	10 20 10 49.8–.73	38.31N–.05	143.27E–.06	23	3.4b,3.6		
JMA	III	10 20 10 50.6–.10	38.35N	143.24E	32	3.9,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=18.5km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.5km az=44.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**10 20 26 54.5–1.3**	**38.47N–.07**	**143.1E–.10**	**23**	**3.3b**	**19**	**1-59**
IDC	III	10 20 26 50.2–1.7	38.33N	143.46E	0	3.3,3.3		¶17193656
JMA	III	10 20 26 52.9–.10	38.47N	143.16E	27	3.3,3.3		
ISCJB	III	10 20 26 52.3–1.1	38.44N–.08	143.2E–.10	23	3.2b,3.3		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**10 21 16 43.3–3.9**	**38.60N–.07**	**143.38E–.08**	**10–25**	**3.6b**	**22**	**1-59**
IDC	III	10 21 16 41.0–2.2	38.48N	143.86E	0	3.6,3.5b		¶17193658
JMA	III	10 21 16 44.0–.10	38.56N	143.37E	17	3.0,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=27.0km az=79.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**10 21 49 45.0–.54**	**38.51N–.05**	**143.20E–.05**	**21–4**	**4.6b,4.0s**	**254**	**1-117**
NIED	III	10 21 49 00	38.50N	143.30E	20	4.5W,4.0s		¶17208862
ISCJB	III	10 21 49 42.5–.97	38.48N–.04	143.22E–.05	15–6	4.5b,3.9s		
BJI	III	10 21 49 43.0	38.51N	143.22E	26	4.9b,4.7b		
JMA	III	10 21 49 43.8–.10	38.47N	143.25E	35	4.5,4.7b		
MOS	III	10 21 49 45.6–1.1	38.57N	143.15E	33	4.9b,4.7b		
IDC	III	10 21 49 45.8–.70	38.41N	143.17E	28–3	4.4,4.3		
NEIC	III	10 21 49 47.9–.38	38.49N	143.11E	41–2	4.7b,4.3		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ27.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ63.00000°,λ93.00000°. $M_0$5.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.0km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=4.7km az=108.2.
IDC Error ellipse: s-maj=14.7km s-min=12.1km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=137.0. Recorded [1 JMA] in Miyagi.

JMA	**III**	**10 22 44 01.9–.20**	**38.48N**	**143.17E**	**24**	**2.1**	
							¶602651972

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**10 22 44 24.2–.39**	**38.74N–.04**	**143.19E–.04**	**31–2**	**4.9b,4.7s**	**463**	**1-145**
NIED	III	10 22 44 00	38.60N	143.40E	14	4.8W,4.7s		¶16303253
JMA	III	10 22 44 21.6–.20	38.63N	143.25E	31	4.8,4.7s		
ISCJB	III	10 22 44 21.8–.80	38.72N–.03	143.13E–.03	21–5	4.8b,4.7s		
IDC	III	10 22 44 23.7–.48	38.64N	143.21E	29–2	4.5,4.4		
BJI	III	10 22 44 23.4	38.76N	143.05E	41	5.1b,4.9b		
NEIC	III	10 22 44 25.4–1.5	38.78N	143.05E	34–10	4.9b,4.9b		
MOS	III	10 22 44 25.1–.98	38.99N	143.04E	36	5.1b,4.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ23.00000°,λ53.00000°. NP2:ϕ_s36.00000°,δ72.00000°,λ104.00000°. $M_0$2.05000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=147.6.
IDC Error ellipse: s-maj=12.6km s-min=9.9km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=3.8km az=140.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=106.8.

ISC	**III**	**10 22 45 06.3–1.1**	**38.7N–.20**	**143.5E–.20**	**15**	**4.4b**	**11**	**5-74**
IDC	III	10 22 45 03.4–1.6	38.70N	143.58E	0	4.6,4.5		¶603049252
ISCJB	III	10 22 45 04.2–1.0	38.7N–.10	143.5E–.20	15	4.4b,4.5		
NEIC	III	10 22 45 09.1–.71	38.65N	143.39E	35	4.4b,4.5		

ISC Event type se.
IDC Error ellipse: s-maj=46.3km s-min=26.1km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=23.7km s-min=18.1km az=38.6.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=12.9km az=127.0.

ISC	**III**	**11 01 41 27.4–.58**	**38.48N–.06**	**143.35E–.07**	**15**	**4.0b**	**56**	**1-88**
NIED	III	11 01 41 00	38.50N	143.20E	20	4.2W		¶16392102
ISCJB	III	11 01 41 25.8–.45	38.47N–.05	143.38E–.05	15	4.0b		
IDC	III	11 01 41 25.2–.70	38.49N	143.37E	0	4.0,3.9		
NEIC	III	11 01 41 26.9–2.1	38.52N	143.38E	11–13	4.2b,3.9		
JMA	III	11 01 41 29.3–.10	38.52N	143.21E	34	4.2,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ23.00000°,λ76.00000°. NP2:ϕ_s27.00000°,δ68.00000°,λ96.00000°. $M_0$1.93000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=145.3.
IDC Error ellipse: s-maj=19.9km s-min=15.1km az=95.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**11 04 11 30.8–1.6**	**38.51N–.07**	**143.3E–.10**	**15**	**3.5b**	**24**	**1-59**
IDC	III	11 04 11 26.4–3.2	38.61N	143.78E	0	3.7,3.6b		¶17193676
JMA	III	11 04 11 31.8–.10	38.50N	143.23E	31–5	3.7,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=71.6km s-min=37.2km az=65.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**11 04 12 30.7–.59**	**38.23N–.05**	**143.04E–.06**	**18**	**4.0b**	**45**	**1-88**
NIED	III	11 04 12 00	38.30N	143.00E	14	4.0W		¶16392104
IDC	III	11 04 12 27.9–.67	38.21N	143.21E	0	4.1,3.9L		
ISCJB	III	11 04 12 29.0–.44	38.24N–.04	143.05E–.04	18	3.9b,3.9L		
JMA	III	11 04 12 30.2–.10	38.26N	142.95E	18–3	4.0,3.9L		
NEIC	III	11 04 12 32.7–3.3	38.19N	143.15E	32–23	4.2b,3.9L		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ42.00000°,λ47.00000°. NP2:ϕ_s249.00000°,δ61.00000°,λ122.00000°. $M_0$9.66000×10^{14}
IDC Error ellipse: s-maj=20.6km s-min=14.0km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=153.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=8.2km az=113.0.

ISC	**III**	**11 05 36 59.0–1.5**	**38.64N–.07**	**143.0E–.10**	**10**	**3.8b**	**20**	**1-63**
NIED	III	11 05 36 00	38.60N	143.10E	14	3.5W		¶17193681
JMA	III	11 05 36 57.8–.10	38.61N	143.13E	9–2	3.6		
IDC	III	11 05 36 58.1–1.7	38.26N	143.63E	0	3.8,3.8b		
ISCJB	III	11 05 36 58.0–1.0	38.52N–.07	143.15E–.08	10	3.8b,3.8b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ42.00000°,λ99.00000°. NP2:ϕ_s203.00000°,δ48.00000°,λ82.00000°. $M_0$2.04000×10^{14}
ISCJB Event type ke.

JMA	**III**	**11 05 51 20.5–.20**	**37.31N**	**142.24E**	**33**	**6.8**		
								¶602653820

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**11 05 55 45.2–.36**	**37.30N–.06**	**143.41E–.07**	**35**	**6.3b**	**152**	**2-150**
IDC	III	11 05 55 39.6–.56	37.25N	143.56E	0	5.9,5.8		¶602653811
ISCJB	III	11 05 55 43.4–.22	37.28N–.04	143.31E–.05	33	6.2b,5.8		
MOS	III	11 05 55 43.1–1.4	37.25N	143.55E	33	6.6b,5.8		
NEIC	III	11 05 55 45.5–.25	37.36N	143.35E	35	6.4b,5.8		
JMA	III	11 05 55 53.4–.10	36.49N	141.77E	55	6.0,5.8		

ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=14.0km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.7km az=140.4.
MOS Error ellipse: s-maj=12.9km s-min=8.9km az=88.2.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.6km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**11 05 58 02.3–1.5**	**37.67N–.04**	**142.05E–.05**	**9–9**	**6.1b**	**165**	**1-146**
IDC	III	11 05 58 00.3–.59	37.61N	142.14E	0	5.9,5.9b		¶602653796
ISCJB	III	11 05 58 04.3–.69	37.67N–.03	142.07E–.05	36–5	6.1b,5.9b		
MOS	III	11 05 58 04.3–.99	37.59N	142.18E	41	6.5b,5.9b		
JMA	III	11 05 58 05.5–.20	37.69N	141.93E	35–4	6.6,5.9b		
NEIC	III	11 05 58 07.5–.75	37.62N	142.16E	51–6	6.3b,5.9b		

ISC Event type ke.
IDC Error ellipse: s-maj=15.2km s-min=13.0km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.1km az=25.4.
MOS Error ellipse: s-maj=10.0km s-min=7.1km az=90.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=118.0.

ISC	**III**	**11 06 08 32.5–.33**	**38.99N–.05**	**143.46E–.04**	**20**	**6.4b**	**294**	**1-155**
NIED	III	11 06 08 00	39.80N	142.80E	35	7.4W		¶16304070
NEIC	III	11 06 08 29.7–2.6	38.97N	143.37E	3–16	6.7b		
IDC	III	11 06 08 29.2–.45	38.93N	143.32E	0	7.7,7.7s		
ISCJB	III	11 06 08 30.7–.23	38.91N–.03	143.48E–.04	20	8.1s,6.3b		
JMA	III	11 06 08 53.4–.20	39.82N	142.77E	32–2	7.4,6.3b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ23.00000°,λ60.00000°. NP2:ϕ_s31.00000°,δ70.00000°,λ102.00000°. $M_0$1.40000×10^{20}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=134.0.
IDC Error ellipse: s-maj=13.7km s-min=12.1km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**11 06 12 37.7–.38**	**37.88N–.06**	**144.36E–.07**	**35**	**6.0b**	**435**	**4-153**
IDC	III	11 06 12 31.9–.68	37.75N	144.36E	0	5.8,5.7		¶603049301
MOS	III	11 06 12 35.2–.83	37.84N	144.23E	29	6.4b,5.7		
ISCJB	III	11 06 12 35.7–.20	37.80N–.04	144.23E–.04	33	6.0b,5.7		
NEIC	III	11 06 12 36.4–1.7	37.79N	144.23E	25–11	6.2b,5.7		

ISC Event type ke.
IDC Error ellipse: s-maj=18.2km s-min=13.6km az=163.0.
MOS Error ellipse: s-maj=12.1km s-min=6.3km az=82.3.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=159.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=145.0.

ISC	**III**	**11 06 15 22.8–.40**	**37.90N–.07**	**143.92E–.08**	**35**	**5.9b**	**447**	**5-153**
IDC	III	11 06 15 19.2–.84	38.28N	144.05E	0	7.6,7.6s		¶16404865
NEIC	III	11 06 15 23.1–.29	37.93N	143.80E	35	6.3b,7.6s		
MOS	III	11 06 15 24.5–1.2	38.50N	144.09E	38	6.4b,7.6s		
ISCJB	III	11 06 15 24.3–.37	38.52N–.07	144.26E–.06	33	5.9b,7.6s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**11 06 18 51.1–.56**	**36.07N–.05**	**142.14E–.07**	**23**	**6.5b**	**107**	**1-147**
IDC	III	11 06 18 46.9–.98	35.99N	142.30E	0	6.0,5.9		¶600538942
ISCJB	III	11 06 18 48.8–.37	35.99N–.04	142.23E–.05	23	6.3b,5.9		
NEIC	III	11 06 18 49.5–3.4	36.02N	142.27E	16–20	6.6b,5.9		
MOS	III	11 06 18 50.1–1.2	36.03N	142.23E	33	6.7b,5.9		
JMA	III	11 06 19 03.1–.40	36.29N	141.13E	33–4	5.7,5.9		

ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=22.8km az=35.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.0km az=24.9.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.0km az=108.0.
MOS Error ellipse: s-maj=17.0km s-min=9.1km az=39.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.

ISC	**III**	**11 06 25 50.7–.54**	**38.05N–.03**	**144.63E–.03**	**20–2**	**7.6s,7.0b**	**1885**	**3-159**
NIED	III	11 06 25 00	37.80N	144.90E	20	7.6W,7.0b		¶16304073
JMA	III	11 06 25 44.3–.60	37.91N	144.75E	11	7.5,7.0b		
IDC	III	11 06 25 46.6–.36	38.03N	144.75E	0	7.5s,7.5		
BJI	III	11 06 25 49.1	38.10N	144.40E	20	7.7s,7.6		
ISCJB	III	11 06 25 49.1–.06	38.08N–.01	144.64E–.01	21	7.5s,6.9b		
NEIC	III	11 06 25 50.3–1.3	38.06N	144.59E	19–8	7.7W,7.1b		
GCMT	III	11 06 25 50.0–.40	38.27N	144.63E	21–1	7.6W,7.1b		
MOS	III	11 06 25 51.0–.97	38.10N	144.63E	32	7.2b,7.1b		
NEIC	III	11 06 26 25.5–.00	39.42N	144.68E	26	7.2b,7.1b		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ41.00000°,λ-92.00000°. NP2:ϕ_s194.00000°,δ49.00000°,λ-89.00000°. $M_0$2.46000×10^{20}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=11.1km s-min=9.6km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=161.0.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=129.0. Felt at Abiko, Akishima, Atsugi, Chiba, Chofu, Fussa, Kawasaki, Misawa, Mizuho, Nara, Narita, Osaka, Tokyo, Ueno, Yokosuka and Zama. Also felt at Sapporo, Hokkaido. Recorded [4 JMA] in Akita, Aomori, Fukushima, Ibaraki, Iwate, Miyagi, Saitama and Yamagata. Also recorded [4 JMA] in southeastern Hokkaido.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=60s. Moment Tensor Solution. s54,c128;Duration: 15s5 Moment tensor: Scale 10^{20}Nm; M_{rr}-3.03±.25 $M_{\theta\theta}$0.03±.12; $M_{\phi\phi}$3.00±.16; $M_{r\theta}$-0.41±.30; $M_{\theta\phi}$0.47±.06; $M_{\phi r}$-0.34±.24; Best double couple: NP1:ϕ_s15.00000°,δ49.00000°,λ-81.00000°. NP2:ϕ_s182.00000°,δ42.00000°,λ-100.00000°. Principal axes: T 3.0980,Plg4.0000°,Azm99.0000°; N 0.0000,Plg7.0000°,Azm190.0000°; P -3.0970,Plg82.0000°,Azm340.0000° $M_0$3.09700×10^{20}
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=3.8km az=105.7. Felt (V) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{20}Nm; M_{rr}-4.04 $M_{\theta\theta}$3.59 $M_{r\theta}$2.19 $M_{\theta\phi}$0.24 $M_{\phi r}$-1.19 Best double couple: NP1:ϕ_s340.00000°,δ57.00000°,λ-115.00000°. NP2:ϕ_s202.00000°,δ40.00000°,λ-56.00000°. Principal axes: T 3.7800,Plg9.0000°,Azm88.0000°; N 1.3200,Plg21.0000°,Azm355.0000°; P -5.1000,Plg67.0000°,Azm200.0000° $M_0$4.40000×10^{20}

ISC	**III**	**11 06 29 15.4–.35**	**37.86N–.05**	**144.21E–.05**	**35**	**6.1b**	**175**	**2-152**
IDC	III	11 06 29 09.6–.59	37.83N	144.40E	0	6.3,6.1		¶602653717
ISCJB	III	11 06 29 13.6–.20	37.83N–.03	144.18E–.02	33	6.0b,6.1		
MOS	III	11 06 29 13.4–1.1	37.82N	144.25E	33	6.3b,6.1		
NEIC	III	11 06 29 16.0–.69	37.81N	144.23E	41–6	6.1b,6.1		
JMA	III	11 06 29 15.1–.30	37.93N	143.93E	15	6.9,6.1		

ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=15.2km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=178.8.
MOS Error ellipse: s-maj=10.0km s-min=8.1km az=78.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=122.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**III**	**11 06 33 16.8–1.4**	**37.48N–.05**	**143.62E–.09**	**35**		**80**	**2-86**
JMA	III	11 06 33 15.7–.20	37.49N	143.53E	40	6.4		¶16403903

ISCJB III 11 06 33 16.8–.60 37.55N–.03 143.44E–.05 33 5.9b
ISC Event type se.
JMA Event type fe.
ISCJB Event type fe.
JMA III 11 06 34 45.1–.20 37.07N 142.13E 39 5.5 ¶602653701
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 06 36 32.6–.86 37.1N–.10 143.3E–.10 35 5.2b 19 2-83
IDC III 11 06 36 27.4–.75 37.20N 143.41E 0 5.4,5.2 **¶602443409**
ISCJB III 11 06 36 30.4–.67 37.2N–.10 143.27E–.09 33 5.2b,5.2
JMA III 11 06 36 54.3–.10 37.06N 141.02E 37–1 4.4,5.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.7km s-min=17.6km az=153.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=9.7km az=166.7.
ISC III 11 06 37 01.9–.53 37.49N–.09 142.53E–.10 21 5.6b 49 5-91
IDC III 11 06 36 58.2–.81 37.47N 142.49E 0 5.6,5.4 **¶602653695**
ISCJB III 11 06 36 60.0–.34 37.45N–.06 142.43E–.08 21 5.5b,5.4
NEIC III 11 07 05.6–1.0 37.47N 142.40E 52–10 5.6b,5.4
ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=20.7km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.1km az=38.1.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.9km az=103.0.
ISC III 11 06 39 34.8–.35 37.06N–.06 142.51E–.07 9 5.5b 204 5-163
IDC III 11 06 39 32.9–.71 37.03N 142.52E 0 5.5,5.4 **¶16401041**
ISCJB III 11 06 39 33.2–.18 37.01N–.04 142.44E–.04 9 5.4b,5.4
MOS III 11 06 39 38.4–.81 37.00N 142.42E 51 5.7b,5.4
NEIC III 11 06 39 39.3–.55 37.04N 142.46E 40–5 5.5b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=16.8km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=151.0.
MOS Error ellipse: s-maj=9.8km s-min=7.3km az=102.5.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=3.0km az=136.0.
ISC III 11 06 42 09.4–.52 34.88N–.07 141.95E–.09 29 5.3b 37 3-146
IDC III 11 06 42 05.3–1.2 34.97N 141.95E 0 5.5,5.4 **¶16404873**
ISCJB III 11 06 42 07.8–.35 34.81N–.06 141.83E–.08 29 5.3b,5.4
NEIC III 11 06 42 10.5–.97 34.88N 141.92E 36–9 5.2b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=48.6km s-min=25.5km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=8.3km az=176.6.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.0km az=94.0.
JMA III 11 06 42 17.5–.30 37.42N 142.60E 9 6.2 ¶603049306
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 06 43 11.7–.42 38.15N–.06 144.67E–.06 35 5.5b 138 4-148
IDC III 11 06 43 06.0–.93 38.00N 144.68E 0 5.4,5.2 **¶602653681**
MOS III 11 06 43 09.9–1.1 38.12N 144.59E 33 5.5b,5.2
ISCJB III 11 06 43 10.1–.21 38.10N–.04 144.55E–.04 33 5.4b,5.2
NEIC III 11 06 43 10.6–1.8 38.07N 144.63E 26–13 5.4b,5.2
ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=20.1km az=177.0.
MOS Error ellipse: s-maj=10.9km s-min=7.7km az=89.5.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=165.6.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.7km az=123.0.
ISC III 11 06 46 29.5–.40 37.97N–.07 143.27E–.07 18 5.7b 151 2-150
JMA III 11 06 46 09.3–.10 38.75N 142.23E 38–1 5.6 **¶602653675**
IDC III 11 06 46 26.0–.60 37.95N 143.28E 0 5.4,5.3
ISCJB III 11 06 46 27.8–.27 37.94N–.05 143.22E–.05 18 5.6b,5.3
MOS III 11 06 46 29.7–.91 37.98N 143.22E 31 6.2b,5.3
NEIC III 11 06 46 31.2–1.7 37.96N 143.25E 31–12 5.9b,5.3
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=16.0km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.2km az=150.1.
MOS Error ellipse: s-maj=11.2km s-min=7.3km az=94.5.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=132.0. Recorded [4 JMA] in Iwate.
ISC III 11 06 48 45.8–.24 37.98N–.04 142.74E–.03 14 6.1b 1036 1-154
IDC III 11 06 48 43.5–.41 37.94N 142.79E 0 6.8s,6.8 **¶16476201**
ISCJB III 11 06 48 44.1–.10 37.96N–.02 142.77E–.02 14 6.3s,6.0b
BJI III 11 06 48 44.5 37.90N 142.80E 20 6.5s,6.3b
NEIC III 11 06 48 45.6–1.2 37.96N 142.72E 12–7 6.2b,6.3b
MOS III 11 06 48 47.7–.97 38.07N 142.71E 36 6.2b,6.3b
JMA III 11 06 49 01.7–.30 38.39N 142.27E 23 5.6,6.3b
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=160.3.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=1.9km az=130.0.
MOS Error ellipse: s-maj=5.9km s-min=4.2km az=95.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 06 49 15.2–.33 37.29N–.05 144.23E–.06 35 6.0b 217 5-149
IDC III 11 06 49 09.0–.52 37.30N 144.39E 0 6.5,6.5s **¶17193684**
ISCJB III 11 06 49 13.7–.20 37.32N–.04 144.20E–.04 35 5.9b,6.5s
MOS III 11 06 49 14.4–1.2 37.30N 144.19E 43 6.3b,6.5s
NEIC III 11 06 49 16.6–.77 37.34N 144.24E 47–7 6.1b,6.5s
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=13.0km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.7km az=161.6.
MOS Error ellipse: s-maj=10.8km s-min=7.2km az=111.3.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=118.0.
ISC III 11 06 52 26.3–.33 38.10N–.05 143.03E–.04 18 5.4b 173 1-151
IDC III 11 06 52 22.9–.57 38.01N 143.07E 0 5.3,5.1 **¶16404878**
ISCJB III 11 06 52 24.6–.19 38.06N–.03 143.05E–.03 18 5.4b,5.1
MOS III 11 06 52 27.9–.84 38.03N 142.92E 45 5.7b,5.1
NEIC III 11 06 52 28.5–1.4 38.06N 143.02E 34–10 5.5b,5.1
JMA III 11 06 52 29.1–.40 38.40N 142.74E 0 5.9,5.1
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=14.5km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.5km az=7.7.
MOS Error ellipse: s-maj=11.0km s-min=6.8km az=90.1.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=120.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 06 55 31.3–.40 37.50N–.06 142.89E–.06 24 5.8b 159 2-148
IDC III 11 06 55 27.3–.72 37.55N 142.90E 0 6.9,6.9s **¶602654497**
ISCJB III 11 06 55 29.8–.22 37.52N–.04 142.82E–.04 24 6.9s,5.7b
MOS III 11 06 55 29.8–1.0 37.65N 142.90E 22 6.0b,5.7b
NEIC III 11 06 55 33.6–.65 37.56N 142.86E 40–6 5.9b,5.7b
JMA III 11 06 55 41.3–.20 36.58N 142.03E 79–5 5.4,5.7b
ISC Event type ke.
IDC Error ellipse: s-maj=19.7km s-min=15.0km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.3km az=151.4.
MOS Error ellipse: s-maj=8.9km s-min=8.0km az=77.7.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.2km az=132.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 06 58 59.4–2.1 37.37N–.04 144.76E–.04 30–14 6.2b 1150 3-158
IDC III 11 06 58 53.7–.40 37.23N 144.76E 0 6.7,6.7s **¶16304934**
ISCJB III 11 06 58 55.0–1.0 37.33N–.02 144.78E–.02 15–7 6.2b,6.7s
BJI III 11 06 58 58.3 37.40N 144.80E 30 6.0b,6.7s
MOS III 11 06 58 59.2–1.0 37.41N 144.73E 38 6.5b,6.7s
NEIC III 11 06 59 00.3–.66 37.36N 144.73E 36–6 6.3b,6.7s
JMA III 11 06 59 01.3–.30 37.53N 144.43E 50 6.8,6.7s
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=11.0km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=171.1.
MOS Event type fe. Error ellipse: s-maj=6.2km s-min=4.2km az=110.2. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=132.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 07 01 11.5–.47 36.62N–.09 143.76E–.09 35 5.6b 82 5-150
ISCJB III 11 07 01 09.7–.33 36.64N–.07 143.74E–.08 33 5.5b **¶16404881**
MOS III 11 07 01 10.1–1.9 36.81N 143.96E 34 5.9b
NEIC III 11 07 01 11.6–.71 36.63N 143.76E 36–6 5.7b
IDC III 11 07 01 11.9–.90 36.71N 143.81E 38–5 5.1,5.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=7.1km az=45.0.
MOS Error ellipse: s-maj=18.6km s-min=9.0km az=83.7.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.3km az=130.0.
IDC Error ellipse: s-maj=25.4km s-min=19.1km az=160.0.
ISC III 11 07 05 20.8–.32 38.45N–.04 143.66E–.05 15 5.7b 312 2-154
IDC III 11 07 05 17.8–.58 38.47N 143.82E 0 5.5,5.4 **¶16313871**
ISCJB III 11 07 05 19.5–.15 38.42N–.03 143.57E–.03 15 5.6b,5.4
NEIC III 11 07 05 21.1–.61 38.44N 143.60E 15–3 5.7b,5.4
MOS III 11 07 05 23.0–.91 38.47N 143.54E 42 5.9b,5.4
JMA III 11 07 05 34.4–.10 39.02N 142.40E 27–1 5.7,5.4
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=14.9km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=156.7.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.6km az=144.0.
MOS Error ellipse: s-maj=7.6km s-min=5.5km az=105.8.
JMA Event type fe.
ISC III 11 07 06 46.1–.56 37.74N–.09 142.98E–.08 24 5.5b 68 5-151
IDC III 11 07 06 42.3–1.0 37.79N 143.04E 0 5.2,5.0 **¶16404882**
ISCJB III 11 07 06 44.3–.41 37.76N–.07 142.93E–.07 24 5.3b,5.0
NEIC III 11 07 06 45.8–2.5 37.78N 142.98E 22–17 5.6b,5.0
MOS III 11 07 06 47.1–.68 38.03N 142.87E 33 5.7b,5.0
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=25.6km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=8.2km az=18.7.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.2km az=125.0.
MOS Error ellipse: s-maj=24.6km s-min=10.9km az=109.7.
ISC III 11 07 10 44.1–1.0 37.2N–.20 142.7E–.40 9 5.2b 9 49-79
ISCJB III 11 07 10 41.9–.83 37.2N–.20 142.7E–.40 9 5.2b **¶602654465**
IDC III 11 07 10 42.6–.95 37.18N 142.73E 0 5.3,5.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=51.6km s-min=17.9km az=18.1.
IDC Error ellipse: s-maj=62.9km s-min=20.2km az=108.0.
ISC III 11 07 11 00.1–.37 37.87N–.04 142.72E–.04 37–1 5.8b 1025 1-161
BJI III 11 07 10 52.5 37.60N 142.80E 10 6.3,6.3b **¶602707266**
IDC III 11 07 10 54.0–.39 37.84N 142.79E 0 5.6,5.5
JMA III 11 07 10 56.5–.20 37.82N 142.86E 27 6.2,5.5
ISCJB III 11 07 10 58.6–.48 37.85N–.03 142.75E–.02 39–4 6.5s,5.7b
MOS III 11 07 10 59.0–1.0 37.81N 142.62E 43 6.0b,5.7b
NEIC III 11 07 10 59.9–1.2 37.88N 142.68E 34–8 5.8b,5.7b
ISC Event type ke.
IDC Error ellipse: s-maj=11.1km s-min=10.0km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=161.8.
MOS Error ellipse: s-maj=6.0km s-min=4.4km az=106.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.7km az=137.0.
ISC III 11 07 13 45.2–.74 36.07N–.03 142.12E–.04 12–4 5.9b 623 1-161
ISCJB III 11 07 13 42.6–.11 36.06N–.02 142.30E–.02 10 5.8b **¶602653669**
IDC III 11 07 13 43.9–.35 35.99N 141.99E 0 5.4,5.4
BJI III 11 07 13 44.5 35.80N 142.04E 20 6.2b,6.0
JMA III 11 07 13 45.7–.20 35.95N 141.98E 50 5.8,6.0
MOS III 11 07 13 46.0–1.3 36.02N 142.24E 33 6.0b,6.0
NEIC III 11 07 13 47.6–.13 36.10N 142.36E 35 5.9b,6.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=164.4.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=111.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=138.0.
ISC III 11 07 13 58.5–.93 39.2N–.10 143.2E–.10 16 5.1b 48 13-83
IDC III 11 07 13 53.3–3.3 38.93N 143.13E 0 5.2,5.1 **¶17193692**
ISCJB III 11 07 13 56.1–.72 39.2N–.10 143.0E–.10 16 5.8b,5.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 07 17 43.1–.29 37.02N–.04 142.46E–.04 9 5.8b 269 1-151
ISCJB III 11 07 17 41.6–.15 36.99N–.02 142.42E–.02 9 5.7b **¶602653663**
IDC III 11 07 17 41.1–.55 36.97N 142.56E 0 5.6,5.5
NEIC III 11 07 17 42.8–.72 37.01N 142.41E 6–4 5.8b,5.5
JMA III 11 07 17 42.7–.20 37.14N 142.59E 20 6.5,5.5
MOS III 11 07 17 43.2–1.0 37.05N 142.38E 21 6.0b,5.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=153.7.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=129.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=6.0km az=80.8.
IDC III 11 07 20 12.4–1.3 36.66N 142.38E 0 5.1,5.0 ¶17193693
IDC Error ellipse: s-maj=44.1km s-min=25.9km az=79.0.
IDC III 11 07 20 49.8–2.9 37.07N 143.47E 0 5.1,4.8 ¶603049311
IDC Error ellipse: s-maj=91.1km s-min=29.4km az=180.0.
IDC III 11 07 21 42.6–3.4 36.63N 142.56E 0 4.9,4.6 ¶603049312
IDC Error ellipse: s-maj=104.3km s-min=26.2km az=3.0.
ISC III 11 07 22 24.5–1.6 37.0N–.20 142.5E–.10 9 4.8b 16 3-83
ISCJB III 11 07 22 23.4–1.3 37.0N–.20 142.4E–.10 9 4.8b **¶603049313**
IDC III 11 07 22 23.4–2.1 37.01N 142.42E 0 4.9,4.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.2km s-min=10.3km az=160.7.
IDC Error ellipse: s-maj=51.1km s-min=18.2km az=169.0.
ISC III 11 07 23 17.6–.35 37.47N–.06 142.09E–.07 24 5.8b 214 3-155
IDC III 11 07 23 12.6–.61 37.28N 142.17E 0 5.1,5.0 **¶600539035**
ISCJB III 11 07 23 15.9–.22 37.46N–.04 142.01E–.04 24 7.4s,5.6b
NEIC III 11 07 23 16.9–2.6 37.45N 142.10E 20–16 5.9b,5.6b
MOS III 11 07 23 17.2–1.3 37.30N 142.01E 39 6.1b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=13.1km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=159.4.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=123.0.
MOS Error ellipse: s-maj=10.1km s-min=7.0km az=94.9.
ISC III 11 07 24 44.5–.93 37.1N–.20 142.6E–.10 9 4.6b 10 4-89
ISCJB III 11 07 24 42.9–.81 37.0N–.20 142.6E–.10 9 4.5b **¶603049315**
IDC III 11 07 24 43.2–.89 37.10N 142.66E 0 4.8,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.0km s-min=14.7km az=158.9.
IDC Error ellipse: s-maj=28.7km s-min=22.0km az=149.0.
JMA III 11 07 25 10.7–.20 36.94N 142.29E 11–5 5.3 ¶16476219
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 07 25 35.0–.47 38.01N–.03 144.60E–.03 28–3 6.0b 1533 3-158
IDC III 11 07 25 30.4–.30 37.94N 144.67E 0 5.7,5.6 **¶17193702**
MOS III 11 07 25 32.6–.94 37.95N 144.59E 22 6.2b,5.6
ISCJB III 11 07 25 33.9–.76 38.00N–.02 144.58E–.02 29–5 6.5s,6.0b
BJI III 11 07 25 34.1 37.90N 144.30E 20 6.6b,6.5
NEIC III 11 07 25 36.5–.45 37.93N 144.53E 40–4 6.1b,6.5
JMA III 11 07 25 36.1–.20 38.06N 144.50E 40 6.2,6.5
ISC Event type se.
IDC Error ellipse: s-maj=9.5km s-min=8.3km az=101.0.
MOS Event type fe. Error ellipse: s-maj=5.6km s-min=3.7km az=100.7. Felt (II) at Yuzhno-Kuril'sk. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=166.9.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 07 25 53.2–.51 37.91N–.08 144.8E–.10 35 5.6b 40 18-129
IDC III 11 07 25 47.9–.49 37.90N 144.76E 0 5.7,5.7 **¶603049316**
ISCJB III 11 07 25 51.2–.45 37.90N–.07 144.8E–.10 33 5.6b,5.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 07 33 33.8–.50 36.26N–.06 142.72E–.08 35 5.5b 62 2-151
IDC III 11 07 33 28.6–1.0 36.36N 142.75E 0 5.2,5.1 **¶16407476**

JMA III 11 07 33 30.9–.30 36.29N 142.14E 19 5.2,5.1
MOS III 11 07 33 30.7–.80 36.15N 142.42E 21 5.9b,5.1
ISCJB III 11 07 33 32.4–.38 36.26N–.05 142.62E–.07 35 5.4b,5.1
NEIC III 11 07 33 33.7–.38 36.32N 142.71E 35 5.7b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=22.4km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=15.8km s-min=10.2km az=96.9.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.4km az=20.4.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.1km az=130.0.
ISC III 11 07 33 50.3–1.1 35.4N–.20 143.4E–.20 35 5.1b 11 30-78
IDC III 11 07 33 45.0–.99 35.40N 143.34E 0 5.3,5.2 **¶17193709**
ISCJB III 11 07 33 48.2–.95 35.3N–.20 143.2E–.20 33 5.2b,5.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 07 34 54.1–.49 37.92N–.05 142.73E–.06 21–4 5.3b 91 1-154
JMA III 11 07 34 51.7–.20 37.98N 142.75E 13–3 5.7 **¶16339080**
ISCJB III 11 07 34 52.6–1.6 37.91N–.04 142.78E–.05 22–11 5.3b
BJI III 11 07 34 52.1 37.70N 143.23E 26 5.8b
IDC III 11 07 34 55.4–.66 37.86N 142.88E 30–4 5.3,5.3
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=5.5km az=148.7.
IDC Error ellipse: s-maj=14.0km s-min=11.7km az=143.0.
ISC III 11 07 35 50.4–.34 37.00N–.05 142.26E–.04 9 5.7b 254 1-151
IDC III 11 07 35 47.6–.58 36.75N 142.44E 0 5.4,5.3 **¶16476229**
ISCJB III 11 07 35 48.7–.16 36.94N–.03 142.34E–.02 9 5.6b,5.3
JMA III 11 07 35 49.4–.30 37.06N 142.49E 28 6.0,5.3
NEIC III 11 07 35 52.2–1.4 36.94N 142.31E 22–9 5.7b,5.3
MOS III 11 07 35 52.2–.87 36.97N 142.26E 33 5.8b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.2km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=169.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=2.7km az=131.0.
MOS Error ellipse: s-maj=11.3km s-min=7.0km az=63.1.
JMA III 11 07 37 58.0–.10 36.77N 142.16E 27–4 5.0
¶602653626
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 07 43 51.1–.78 37.16N–.09 142.38E–.06 9 5.4b 23 1-89
ISCJB III 11 07 43 49.3–.60 37.14N–.06 142.46E–.05 9 5.3b **¶603049320**
IDC III 11 07 43 49.5–.81 37.10N 142.38E 0 5.4,5.3
JMA III 11 07 43 51.0–.20 37.13N 142.54E 46 5.5,5.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=5.2km az=6.2.
IDC Error ellipse: s-maj=22.2km s-min=21.5km az=77.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 07 47 49.7–.55 38.73N–.08 143.83E–.08 23 5.0b 53 2-88
IDC III 11 07 47 46.2–.68 38.73N 143.84E 0 4.9,4.7 **¶602653607**
ISCJB III 11 07 47 47.9–.36 38.71N–.05 143.80E–.06 23 4.9b,4.7
NEIC III 11 07 47 49.4–2.5 38.73N 143.84E 21–18 5.2b,4.7
JMA III 11 07 47 52.6–.10 39.03N 142.33E 32–2 4.0,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=14.8km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.2km az=146.7.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.1km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 07 48 09.8–.93 36.97N–.05 142.25E–.04 4–5 5.0b 127 1-151
IDC III 11 07 48 08.8–.84 36.92N 142.25E 0 5.0,4.9 **¶16407480**
NEIC III 11 07 48 09.8–2.3 36.95N 142.16E 3–14 5.1b,4.9
ISCJB III 11 07 48 09.5–1.7 37.01N–.04 142.33E–.03 7–10 5.0b,4.9
JMA III 11 07 48 12.7–.30 37.11N 142.33E 27 5.1,4.9
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=17.8km az=6.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.1km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.6km az=175.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 07 56 13.2–.46 37.08N–.03 142.34E–.04 22–3 5.6b 421 1-150
JMA III 11 07 56 09.2–.30 37.05N 142.57E 11–5 6.2 **¶16304940**
BJI III 11 07 56 12.3 36.93N 142.15E 25 5.8s,5.7
ISCJB III 11 07 56 12.2–.98 37.09N–.02 142.31E–.03 25–6 6.0s,5.6b
MOS III 11 07 56 13.1–1.4 37.12N 142.22E 32 5.9b,5.6b
IDC III 11 07 56 14.0–3.5 37.08N 142.20E 33–26 5.3,5.3
NEIC III 11 07 56 15.4–.62 37.11N 142.23E 38–5 5.6b,5.3
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=37.5.
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=110.4.
IDC Error ellipse: s-maj=12.9km s-min=10.4km az=89.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.2km az=122.0.
ISC III 11 07 59 53.9–.42 37.04N–.07 142.75E–.08 35 5.4b 130 2-154
NEIC III 11 07 59 49.0–2.5 37.01N 142.78E 1–16 5.7b **¶602653587**
MOS III 11 07 59 50.2–1.1 37.00N 142.70E 23 5.7b
ISCJB III 11 07 59 52.2–.25 36.97N–.05 142.64E–.05 35 5.4b
IDC III 11 07 59 53.8–.60 37.04N 142.87E 34–4 4.8,4.8
JMA III 11 08 00 03.6–.30 35.77N 141.04E 34–1 4.4,4.8
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=123.0.
MOS Error ellipse: s-maj=13.4km s-min=8.9km az=82.8.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.0km az=155.4.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 08 01 23.0–.41 36.99N–.06 142.80E–.07 25 5.0b 133 4-151
IDC III 11 08 01 19.1–.62 36.91N 142.81E 0 4.9,4.7 **¶602707276**
ISCJB III 11 08 01 20.7–.25 36.96N–.04 142.83E–.06 25 5.0b,4.7
MOS III 11 08 01 22.0–1.4 36.98N 142.90E 33 5.2b,4.7
NEIC III 11 08 01 24.1–.22 36.98N 142.82E 35 5.1b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=17.8km s-min=15.9km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=32.8.
MOS Error ellipse: s-maj=14.8km s-min=8.3km az=85.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.3km az=122.0.
ISC III 11 08 01 55.5–.63 36.73N–.04 142.52E–.04 14–3 5.8b 977 1-154
IDC III 11 08 01 50.5–.42 36.20N 142.83E 0 5.2,5.1 **¶16304085**
BJI III 11 08 01 52.6 36.39N 142.68E 28 5.8s,5.6
ISCJB III 11 08 01 54.7–.13 36.93N–.03 142.67E–.02 15 5.7b,5.6
MOS III 11 08 01 57.5–1.3 36.97N 142.92E 29 5.9b,5.6
JMA III 11 08 01 57.0–.20 36.35N 141.95E 17–3 5.5,5.6
NEIC III 11 08 01 57.0–1.8 36.94N 142.70E 19–10 5.9b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.6km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.6km az=174.1.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=98.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.1km az=148.0.
ISC III 11 08 04 54.4–.60 37.50N–.03 142.18E–.03 17–3 5.8b 519 1-151
IDC III 11 08 04 49.8–.45 37.25N 142.32E 0 5.2,5.2 **¶600539077**
ISCJB III 11 08 04 52.9–.71 37.46N–.02 142.23E–.02 19–4 5.6b,5.2
JMA III 11 08 04 53.5–.30 37.26N 142.11E 19–3 5.9,5.2
MOS III 11 08 04 54.5–.80 37.53N 142.19E 29 6.0b,5.2
NEIC III 11 08 04 58.8–.47 37.59N 142.21E 49–4 5.7b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=10.3km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=151.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.8km az=102.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=142.0.
ISC III 11 08 06 21.0–.59 37.55N–.08 142.8E–.10 24 5.1b 35 4-89
IDC III 11 08 06 17.4–.78 37.52N 142.83E 0 5.1,4.9 **¶16407486**
ISCJB III 11 08 06 19.0–.40 37.53N–.05 142.8E–.10 24 5.0b,4.9
NEIC III 11 08 06 20.7–2.3 37.57N 142.82E 21–16 5.4b,4.9

ISC Event type se.
IDC Error ellipse: s-maj=27.0km s-min=18.5km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.4km az=11.7.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.4km az=104.0.
ISC III 11 08 09 11.9–1.2 40.7N–.20 143.0E–.20 12 4.7b 8 27-74
ISCJB III 11 08 09 10.0–1.1 40.6N–.20 143.0E–.30 12 4.6b **¶17193721**
IDC III 11 08 09 10.0–1.2 40.65N 143.06E 0 4.7,4.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.0km s-min=24.5km az=138.1.
IDC Error ellipse: s-maj=38.2km s-min=26.3km az=59.0.
ISC III 11 08 10 03.2–.41 37.92N–.06 142.63E–.05 14 4.9b 92 1-154
IDC III 11 08 10 00.9–.42 37.95N 142.70E 0 4.9,4.9 **¶16476243**
ISCJB III 11 08 10 01.5–.31 37.94N–.04 142.68E–.04 14 4.8b,4.9
JMA III 11 08 10 03.8–.30 37.88N 142.57E 37 5.5,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=12.3km s-min=10.5km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=176.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 11 08 11 10.9–2.1 36.0N–.40 143.1E–.20 35 5.2b 14 29-119
IDC III 11 08 11 04.9–2.1 35.95N 143.29E 0 5.1,5.0 **¶16476245**
ISCJB III 11 08 11 09.1–2.1 36.0N–.30 143.1E–.30 33 5.0b,5.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 08 14 35.1–.93 37.2N–.20 143.5E–.10 10 5.0b 12 11-89
ISCJB III 11 08 14 33.4–.82 37.1N–.20 143.4E–.10 10 5.0b **¶16461289**
IDC III 11 08 14 33.6–1.1 37.09N 143.57E 0 5.3,5.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=14.2km az=2.7.
IDC Error ellipse: s-maj=30.6km s-min=23.7km az=177.0.
ISC III 11 08 15 39.5–.76 37.09N–.04 144.63E–.04 25–5 6.1b 959 3-159
IDC III 11 08 15 35.0–.45 36.97N 144.69E 0 5.8,5.7 **¶602653457**
ISCJB III 11 08 15 37.7–.93 37.04N–.03 144.63E–.02 23–6 6.6s,6.0b
BJI III 11 08 15 39.0 36.90N 144.60E 30 6.6b,6.4s
MOS III 11 08 15 39.6–.85 37.18N 144.55E 31 6.3b,6.4s
NEIC III 11 08 15 41.9–.47 37.05N 144.54E 41–4 6.1b,6.4s
JMA III 11 08 15 43.1–.30 37.26N 144.26E 32 6.5,6.4s
ISC Event type ke.
IDC Error ellipse: s-maj=12.8km s-min=10.7km az=155.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=169.9.
MOS Error ellipse: s-maj=6.4km s-min=4.6km az=102.9.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=149.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 11 08 16 31.4–.20 37.25N 142.28E 15 5.7
¶16461290
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 08 26 16.8–.80 35.9N–.10 142.28E–.09 18 4.9b 21 3-83
IDC III 11 08 26 13.9–.76 35.94N 142.43E 0 5.0,4.9 **¶16476249**
ISCJB III 11 08 26 15.1–.64 35.81N–.09 142.2E–.10 18 4.8b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 08 26 37.8–.27 37.38N–.04 143.01E–.05 24 6.0b 926 4-156
BJI III 11 08 26 30.0 36.71N 143.46E 15 5.7b **¶17193728**
IDC III 11 08 26 33.8–.36 37.34N 143.09E 0 5.4,5.4
NEIC III 11 08 26 36.9–1.4 37.37N 143.02E 17–8 6.1b,5.4
ISCJB III 11 08 26 36.4–.12 37.37N–.03 143.00E–.02 24 5.9b,5.4
MOS III 11 08 26 37.7–.91 37.38N 142.99E 33 6.2b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=11.1km s-min=9.7km az=102.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.2km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.5km az=161.1.
MOS Error ellipse: s-maj=6.8km s-min=5.2km az=89.9.
IDC III 11 08 31 36.8–.91 37.15N 142.52E 0 5.5,5.4
¶17193732
IDC Error ellipse: s-maj=23.1km s-min=21.6km az=107.0.
ISC III 11 08 32 57.2–1.5 39.14N–.04 143.02E–.04 4–9 6.0b 341 1-159
IDC III 11 08 32 56.2–.47 39.10N 143.14E 0 5.5,5.4 **¶16403906**
ISCJB III 11 08 32 58.3–1.0 39.15N–.03 143.03E–.03 20–7 5.8b,5.4
MOS III 11 08 32 59.4–.91 39.19N 142.98E 30 6.2b,5.4
JMA III 11 08 32 59.4–.20 39.20N 142.96E 12–3 6.0,5.4
NEIC III 11 08 33 00.8–1.3 39.14N 142.97E 28–9 6.0b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=12.9km s-min=11.3km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.7km az=175.0.
MOS Error ellipse: s-maj=7.3km s-min=5.4km az=83.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=144.0.
ISC III 11 08 38 01.4–3.4 37.72N–.04 143.77E–.05 10–21 5.3b 269 2-153
IDC III 11 08 37 59.5–.43 37.67N 143.93E 0 5.1,5.0 **¶16409230**
ISCJB III 11 08 38 00.0–.16 37.73N–.03 143.72E–.02 10 5.2b,5.0
NEIC III 11 08 38 01.5–1.7 37.70N 143.83E 9–10 5.4b,5.0
JMA III 11 08 38 03.1–.40 37.80N 143.63E 30 5.9,5.0
MOS III 11 08 38 03.1–1.1 37.72N 143.78E 33 5.5b,5.0
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.0km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=163.8.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=131.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=6.2km az=98.8.
ISC III 11 08 39 10.2–.40 37.58N–.06 142.86E–.07 24 5.4b 137 5-151
IDC III 11 08 39 06.1–.68 37.67N 142.94E 0 6.5,6.5s **¶16409231**
ISCJB III 11 08 39 08.6–.24 37.61N–.04 142.78E–.04 24 6.4s,5.3b
MOS III 11 08 39 09.9–.92 37.67N 142.81E 35 5.8b,5.3b
NEIC III 11 08 39 13.0–.77 37.64N 142.77E 46–7 5.5b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.4km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.9km az=173.9.
MOS Error ellipse: s-maj=12.2km s-min=7.7km az=114.8.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.0km az=112.0.
ISC III 11 08 46 44.9–.97 37.39N–.03 142.53E–.04 23–6 5.6b 900 1-154
IDC III 11 08 46 41.3–.39 37.37N 142.50E 0 5.5,5.4 **¶602653441**
BJI III 11 08 46 43.9 37.35N 142.44E 34 5.9b,5.9s
ISCJB III 11 08 46 44.3–.83 37.38N–.02 142.49E–.02 28–5 5.9s,5.5b
JMA III 11 08 46 44.1–.20 37.45N 142.39E 15 5.9,5.5b
MOS III 11 08 46 45.1–.96 37.44N 142.40E 32 5.9b,5.5b
NEIC III 11 08 46 45.9–.99 37.42N 142.45E 26–7 5.6b,5.5b
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=167.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.0km az=116.1.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.3km az=123.0. Recorded [3 JMA] in Ibaraki, Iwate and Miyagi.
ISC III 11 08 48 22.6–2.0 36.62N–.06 142.01E–.05 16–12 5.2b 95 1-152
IDC III 11 08 48 19.3–.77 36.43N 142.18E 0 6.3,6.3s **¶16409232**
ISCJB III 11 08 48 21.2–.24 36.67N–.03 142.05E–.03 10 5.1b,6.3s
JMA III 11 08 48 22.5–.20 36.73N 142.11E 28 5.3,6.3s
NEIC III 11 08 48 26.6–.82 36.51N 141.91E 48–8 5.2b,6.3s
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=17.7km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.1km az=175.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.4km az=130.0.
ISC III 11 08 51 05.3–.57 37.56N–.10 143.64E–.09 35 4.9b 44 2-148
IDC III 11 08 50 60.0–.76 37.50N 143.73E 0 4.7,4.5 **¶16409233**
ISCJB III 11 08 51 03.1–.39 37.58N–.06 143.57E–.08 33 4.9b,4.5
NEIC III 11 08 51 05.4–.32 37.56N 143.64E 35 5.3b,4.5
JMA III 11 08 51 11.6–.10 39.14N 142.40E 30–2 4.7,4.5
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=18.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=7.4km az=140.2.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.8km az=136.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 09 00 14.4–.34 37.31N–.04 142.52E–.04 21 4.9b 305 1-154
JMA III 11 09 00 10.3–.30 37.36N 142.45E 0 4.9 ¶602653418
IDC III 11 09 00 11.0–.51 37.31N 142.53E 0 5.8,5.8s
MOS III 11 09 00 12.4–.83 37.28N 142.48E 23 5.3b,5.8s
ISCJB III 11 09 00 12.5–.21 37.27N–.03 142.51E–.03 21 5.4s,4.8b
NEIC III 11 09 00 14.5–1.2 37.28N 142.50E 23–8 5.1b,4.8b
BJI III 11 09 00 14.1 37.02N 142.16E 22 5.2b,5.2s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.9km az=142.0.
MOS Error ellipse: s-maj=8.6km s-min=6.7km az=112.6.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=160.9.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=139.0.
JMA III 11 09 00 31.2–.10 38.13N 143.52E 0 5.5 ¶602653417
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 09 01 00.4–.59 37.37N–.07 142.43E–.06 21 4.6b 41 1-89
IDC III 11 09 00 56.8–.71 37.31N 142.51E 0 4.6,4.5 ¶16461291
JMA III 11 09 00 58.4–.20 37.39N 142.48E 14 5.5,4.5
ISCJB III 11 09 00 58.4–.44 37.33N–.05 142.53E–.04 21 4.5b,4.5
ISC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC III 11 09 03 39.8–.69 39.50N–.06 143.80E–.09 11 4.6b 53 3-82
IDC III 11 09 03 37.8–.86 39.47N 143.83E 0 4.6,4.5 ¶16442252
ISCJB III 11 09 03 38.0–.46 39.51N–.04 143.72E–.07 11 4.5b,4.5
NEIC III 11 09 03 39.4–.44 39.50N 143.83E 10 4.7b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=15.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.6km az=18.3.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.2km az=115.0.
ISC III 11 09 04 09.3–.29 37.46N–.04 142.68E–.05 21 5.4b 511 1-160
IDC III 11 09 04 05.6–.35 37.40N 142.75E 0 5.1,5.1 ¶602653396
BJI III 11 09 04 06.8 37.49N 142.58E 18 5.7s,5.6
NEIC III 11 09 04 06.9–1.8 37.38N 142.72E 9–10 5.4b,5.6
ISCJB III 11 09 04 07.5–.14 37.39N–.03 142.68E–.03 21 5.8s,5.3b
MOS III 11 09 04 08.6–1.2 37.47N 142.63E 29 5.7b,5.3b
JMA III 11 09 04 13.5 36.55N 140.96E 17–1 5.3,5.3b
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.3km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=140.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki and Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=158.1.
MOS Error ellipse: s-maj=7.4km s-min=4.4km az=107.1.
JMA Event type fe.
ISC III 11 09 05 35.2–.50 37.32N–.05 142.68E–.06 21 5.0b 48 4-89
IDC III 11 09 05 32.2–.66 37.36N 142.71E 0 5.3L,5.1 ¶16476119
ISCJB III 11 09 05 33.2–.37 37.30N–.03 142.66E–.06 21 4.9b,5.1
NEIC III 11 09 05 34.0–2.9 37.30N 142.67E 12–18 5.3b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.4km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=19.5.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.1km az=99.0.
ISC III 11 09 06 03.2–.49 37.41N–.07 143.96E–.08 35 5.0b 46 5-150
IDC III 11 09 05 58.1–.63 37.34N 143.84E 0 5.0,4.9 ¶16476122
ISCJB III 11 09 06 01.0–.38 37.41N–.05 143.97E–.07 33 4.9b,4.9
NEIC III 11 09 06 03.1–.33 37.40N 144.00E 35 4.9b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=14.8km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.9km az=34.2.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.4km az=124.0.
ISC III 11 09 09 13.4–.83 37.66N–.04 143.32E–.04 32–5 5.5b 679 4-160
IDC III 11 09 09 08.3–.38 37.65N 143.46E 0 5.2,5.2 ¶602653384
BJI III 11 09 09 11.4 37.75N 143.29E 33 5.8s,5.6
ISCJB III 11 09 09 12.4–.12 37.72N–.02 143.29E–.02 32 5.4b,5.6
MOS III 11 09 09 12.2–.96 37.80N 143.26E 28 5.7b,5.6
NEIC III 11 09 09 14.7–.38 37.68N 143.31E 39–3 5.5b,5.6
ISC Event type ke.
IDC Error ellipse: s-maj=11.2km s-min=9.7km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=157.5.
MOS Error ellipse: s-maj=6.0km s-min=4.2km az=105.8.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.9km az=142.0.
ISC III 11 09 11 31.0–.60 37.52N–.08 142.85E–.07 24 4.7b 39 2-145
IDC III 11 09 11 27.0–.69 37.52N 142.88E 0 4.8,4.6 ¶602653371
ISCJB III 11 09 11 29.0–.40 37.49N–.05 142.85E–.05 24 4.7b,4.6
NEIC III 11 09 11 33.1–1.2 37.49N 142.86E 42–12 4.7b,4.6
JMA III 11 09 11 51.4–.10 37.92N 141.88E 35–4 4.7,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=17.8km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=178.9.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.3km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 09 12 08.9–1.0 40.2N–.20 143.2E–.20 12 4.5b 13 20-87
IDC III 11 09 12 07.0–1.1 40.12N 143.21E 0 4.8,4.5 ¶17193733
ISCJB III 11 09 12 07.0–.87 40.1N–.20 143.2E–.20 12 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 09 14 26.1–.52 35.59N–.08 142.15E–.08 22 4.5b 37 3-152
IDC III 11 09 14 22.7–.60 35.63N 142.05E 0 6.0,6.0s ¶16476124
ISCJB III 11 09 14 24.1–.40 35.58N–.06 142.15E–.08 22 6.3s,4.5b
NEIC III 11 09 14 27.9–.45 35.64N 141.88E 35 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=13.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.4km az=33.6.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=10.3km az=125.0.
ISC III 11 09 17 26.8–.54 39.80N–.07 143.72E–.08 6 4.7b 68 2-150
IDC III 11 09 17 24.6–.67 39.92N 144.29E 0 4.8,4.6 ¶16461294
ISCJB III 11 09 17 25.3–.41 39.81N–.05 143.71E–.07 6 4.6b,4.6
NEIC III 11 09 17 31.1–.44 39.84N 143.67E 35 4.6b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=16.8km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.9km az=32.2.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.7km az=125.0.
ISC III 11 09 18 44.4–.41 36.10N–.05 142.06E–.05 23 4.8b 78 1-147
IDC III 11 09 18 40.5–.46 36.06N 142.20E 0 4.8,4.7 ¶602653326
ISCJB III 11 09 18 42.5–.28 36.08N–.04 142.11E–.04 23 4.7b,4.7
JMA III 11 09 18 45.9–.10 36.14N 141.93E 59–4 4.6,4.7
NEIC III 11 09 18 45.9–.23 36.07N 142.11E 35 4.9b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.3km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=141.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.9km az=145.0. Recorded [3 JMA] in Chiba, Ibaraki and Tochigi.
ISC III 11 09 19 11.4–.43 37.47N–.06 144.12E–.07 35 4.8b 61 5-153
IDC III 11 09 19 06.3–.52 37.45N 144.15E 0 4.9,4.8 ¶16476130
NEIC III 11 09 19 07.8–.24 37.44N 144.13E 10 5.0b,4.8
ISCJB III 11 09 19 09.6–.31 37.50N–.05 144.02E–.06 33 4.8b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 09 31 13.8–.39 36.61N–.04 142.22E–.05 19 4.7b 102 1-151
ISCJB III 11 09 31 12.2–.24 36.58N–.03 142.26E–.03 19 5.6s,4.6b ¶602654316
JMA III 11 09 31 15.3–.40 36.74N 142.04E 12–5 4.9,4.6b
IDC III 11 09 31 16.6–3.0 36.61N 142.19E 38–25 5.6,5.6s
NEIC III 11 09 31 18.1–.78 36.58N 142.17E 53–7 4.8b,5.6s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=161.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=14.7km s-min=11.7km az=111.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=124.0.
ISC III 11 09 33 50.3–.47 38.56N–.07 144.46E–.07 29 4.8b 83 4-127
IDC III 11 09 33 46.5–.57 38.59N 144.49E 0 4.8,4.7 ¶602654306
ISCJB III 11 09 33 48.6–.33 38.56N–.05 144.39E–.05 29 4.7b,4.7
NEIC III 11 09 33 51.3–.34 38.58N 144.46E 35 4.8b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=12.8km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=155.7.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.2km az=143.0.
ISC III 11 09 35 36.6–.55 37.56N–.08 143.86E–.08 35 4.8b 53 5-150
IDC III 11 09 35 31.2–.84 37.56N 143.97E 0 4.7,4.7b ¶16476135
ISCJB III 11 09 35 34.6–.42 37.56N–.06 143.84E–.07 33 4.8b,4.7b
NEIC III 11 09 35 35.5–2.3 37.57N 143.89E 27–16 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=17.8km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.7km az=140.3.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.1km az=121.0.
ISC III 11 09 40 11.5–.79 37.32N–.08 142.4E–.10 38–3 4.9b 41 1-89
IDC III 11 09 40 05.6–.92 37.28N 142.48E 0 4.9,4.8 ¶602654285
JMA III 11 09 40 08.6–.30 37.33N 142.31E 9 5.1,4.8
ISCJB III 11 09 40 09.5–1.4 37.29N–.05 142.46E–.09 38–11 4.8b,4.8
NEIC III 11 09 40 11.1–1.9 37.14N 142.50E 41–17 4.8b,4.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=22.7km az=88.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=12.2km s-min=9.2km az=5.9.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=11.4km az=67.0.
IDC III 11 09 41 16.2–1.4 39.41N 145.07E 0 4.9,4.5 ¶17193741
IDC Error ellipse: s-maj=103.8km s-min=24.5km az=116.0.
ISC III 11 09 45 01.8–.81 37.8N–.10 142.63E–.09 14 4.6b 40 4-89
IDC III 11 09 44 59.8–1.7 37.85N 142.63E 0 4.7,4.6 ¶602654274
ISCJB III 11 09 45 00.2–.67 37.8N–.10 142.67E–.10 14 4.6b,4.6
NEIC III 11 09 45 05.0–.48 37.85N 142.64E 35 4.6b,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=45.6km s-min=17.6km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=9.5km az=157.9.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=156.0.
ISC III 11 09 45 22.0–.43 36.63N–.06 142.37E–.07 15 5.0b 88 1-151
ISCJB III 11 09 45 20.8–.26 36.68N–.05 142.32E–.05 15 4.9b ¶602654268
NEIC III 11 09 45 25.1–.81 36.66N 142.30E 35–7 5.0b
IDC III 11 09 45 25.4–.56 36.71N 142.33E 37–3 4.7,4.7
JMA III 11 09 45 35.5–.10 36.92N 141.04E 46–1 3.7,4.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.5km az=147.5.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.2km az=135.0.
IDC Error ellipse: s-maj=15.5km s-min=11.8km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 09 45 44.4–.45 37.40N–.07 144.08E–.09 35 4.9b 90 5-153
IDC III 11 09 45 38.7–.58 37.38N 144.17E 0 4.9,4.8 ¶17193746
ISCJB III 11 09 45 42.4–.38 37.38N–.05 144.06E–.09 33 4.8b,4.8
NEIC III 11 09 45 44.2–.22 37.40N 144.12E 35 4.8b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.8km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=6.3km az=24.5.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.1km az=104.0.
ISC III 11 09 47 00.7–.45 39.65N–.03 143.25E–.04 34–1 5.5b 702 2-154
BJI III 11 09 46 56.5 39.62N 143.15E 22 5.7s,5.6 ¶602654271
JMA III 11 09 46 58.7–.20 39.59N 143.26E 28 5.7,5.6
MOS III 11 09 46 58.6–.96 39.69N 143.06E 25 5.8b,5.6
ISCJB III 11 09 46 59.3–.85 39.67N–.02 143.06E–.03 29–5 5.8s,5.4b
NEIC III 11 09 47 01.8–.50 39.60N 143.06E 39–4 5.4b,5.4b
IDC III 11 09 47 01.8–1.9 39.61N 143.19E 40–17 5.1,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.6km s-min=3.9km az=106.9.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.5km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.6km az=146.0. Recorded [2 JMA] in Akita, Aomori, Fukushima, Ibaraki, Iwate, Miyagi, Tochigi and Yamagata.
IDC Error ellipse: s-maj=11.0km s-min=9.1km az=109.0.
JMA III 11 09 52 15.4–.30 36.13N 142.01E 15 4.5 ¶602654254
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 09 53 50.7–.95 37.6N–.20 144.2E–.20 35 4.8b 11 45-82
IDC III 11 09 53 45.5–.79 37.62N 144.18E 0 4.9,4.8 ¶17193747
ISCJB III 11 09 53 48.6–.75 37.5N–.10 144.4E–.30 33 4.7b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 09 58 28.3–.56 37.92N–.07 142.75E–.07 14 4.5b 34 1-145
ISCJB III 11 09 58 26.3–.49 37.87N–.07 142.59E–.08 14 4.5b ¶603049340
IDC III 11 09 58 26.1–.72 37.94N 142.74E 0 4.6,4.5
NEIC III 11 09 58 31.1–.47 37.88N 142.70E 35 4.8b,4.5
JMA III 11 09 58 32.4–.10 37.06N 141.30E 40–1 4.7,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.1km s-min=8.6km az=3.5.
IDC Error ellipse: s-maj=19.8km s-min=18.9km az=53.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.0km az=126.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 09 59 49.1–1.5 38.6N–.30 144.2E–.10 14 4.5b 43 11-118
IDC III 11 09 59 47.0–1.9 38.69N 144.06E 0 4.6,4.4 ¶603049342
ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=24.6km az=173.0.
ISC III 11 09 59 52.4–.32 36.62N–.04 142.28E–.05 15 5.2b 338 1-160
ISCJB III 11 09 59 51.1–.16 36.61N–.02 142.25E–.02 15 5.0b,5.0s ¶16476272
NEIC III 11 09 59 52.0–.14 36.66N 142.19E 10 5.3b,5.0s
JMA III 11 09 59 52.6–.20 36.65N 142.30E 36 5.0,5.0s
MOS III 11 09 59 53.1–1.1 36.66N 142.23E 32 5.3b,5.0s
IDC III 11 09 59 55.8–2.3 36.65N 142.24E 39–20 4.7,4.6
BJI III 11 09 59 57.6 37.07N 141.68E 42 5.8b,5.6s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=162.4.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=152.0. Recorded [2 JMA] in Fukushima, Ibaraki and Tochigi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=6.6km az=105.3.
IDC Error ellipse: s-maj=11.7km s-min=9.5km az=107.0.
ISC III 11 10 00 27.6–.38 37.22N–.06 143.14E–.07 25 5.0b 89 4-160
IDC III 11 10 00 23.9–.38 37.32N 143.15E 0 5.0,4.9 ¶17193748
ISCJB III 11 10 00 25.8–.27 37.20N–.05 143.11E–.06 25 5.0b,4.9
NEIC III 11 10 00 27.2–2.2 37.30N 143.16E 21–15 5.0b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.0km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.7km az=139.5.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.6km az=77.0.
ISC III 11 10 03 18.5–1.1 39.60N–.09 143.5E–.10 18 4.3b 14 3-73
ISCJB III 11 10 03 16.4–.92 39.58N–.06 143.5E–.20 18 4.2b ¶17193750
IDC III 11 10 03 16.0–1.1 39.55N 143.26E 0 4.3,4.2
JMA III 11 10 03 20.1–.30 39.63N 143.23E 20 4.6,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=7.9km az=7.4.
IDC Error ellipse: s-maj=30.6km s-min=21.9km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 10 03 47.3–.86 38.0N–.10 144.8E–.10 26 4.4b 19 5-87
IDC III 11 10 03 43.3–.89 37.99N 144.82E 0 4.6,4.5 ¶17193753
ISCJB III 11 10 03 45.4–.73 38.0N–.10 144.7E–.10 26 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 10 04 35.6–.67 36.86N–.09 142.09E–.10 19 4.2b 17 3-146
IDC III 11 10 04 32.9–.75 36.93N 142.06E 0 4.6L,4.5 ¶16461306
ISCJB III 11 10 04 33.6–.55 36.82N–.07 142.1E–.10 19 4.1b,4.5
ISC Event type ke.

ISCJB Event type ke.
ISC III 11 10 09 03.2–.81 37.3N–.10 142.59E–.09 14 4.0b 14 2-89
ISCJB III 11 10 09 01.6–.70 37.3N–.10 142.6E–.20 14 4.0b ¶17193756
IDC III 11 10 09 01.3–.83 37.38N 142.59E 0 4.3,4.0
JMA III 11 10 09 17.7–.40 38.16N 142.68E 0 4.7,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=16.8km az=5.1.
IDC Error ellipse: s-maj=25.2km s-min=20.9km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 11 10 19 26.6–.72 37.0N–.10 144.56E–.09 10 4.6b 35 5-145
ISCJB III 11 10 19 24.6–.53 36.92N–.08 144.51E–.07 10 4.5b ¶16461309
IDC III 11 10 19 25.0–.71 36.90N 144.62E 0 4.6,4.5
NEIC III 11 10 19 30.5–.52 37.01N 144.46E 35 4.8b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=7.9km az=162.0.
IDC Error ellipse: s-maj=19.1km s-min=14.2km az=150.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.6km az=155.0.
ISC III 11 10 20 26.7–.39 36.95N–.04 142.31E–.04 23–2 5.4b 828 1-160
BJI III 11 10 20 23.1 36.67N 142.27E 22 6.0b,5.8 ¶602654193
JMA III 11 10 20 24.5–.30 36.91N 142.29E 12–5 5.8,5.8
NEIC III 11 10 20 26.2–.73 36.90N 142.25E 18–4 5.4b,5.8
ISCJB III 11 10 20 26.0–1.0 36.91N–.02 142.24E–.02 27–7 5.8s,5.3b
MOS III 11 10 20 28.5–.83 37.30N 142.17E 33 5.7b,5.3b
IDC III 11 10 20 29.0–1.9 36.84N 142.30E 42–17 5.0,4.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=150.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=160.9.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=99.3.
IDC Error ellipse: s-maj=10.8km s-min=9.8km az=102.0.
ISC III 11 10 21 07.5–1.3 37.29N–.04 142.05E–.05 30–9 5.4b 257 1-157
ISCJB III 11 10 21 03.7–.85 37.24N–.03 142.08E–.04 15–5 5.5s,5.3b ¶16476287
MOS III 11 10 21 06.5–.92 37.37N 142.08E 31 5.6b,5.3b
JMA III 11 10 21 07.6–.20 37.35N 141.91E 22–4 5.5,5.3b
NEIC III 11 10 21 09.3–.62 37.26N 142.03E 44–5 5.4b,5.3b
IDC III 11 10 21 09.5–1.8 37.27N 142.00E 42–16 5.5s,5.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.1km az=32.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=93.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=122.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=102.0.
ISC III 11 10 21 53.4–.62 38.0N–.10 142.90E–.09 18 5.1b 32 4-154
IDC III 11 10 21 50.6–1.9 38.02N 142.89E 0 5.3s,5.3 ¶17193764
ISCJB III 11 10 21 51.6–.52 37.96N–.10 142.88E–.09 18 5.1b,5.3
NEIC III 11 10 21 55.7–.28 37.97N 142.86E 35 5.1b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=56.8km s-min=23.3km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=6.8km az=150.9.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.4km az=144.0.
ISC III 11 10 22 03.6–.31 36.65N–.05 142.49E–.06 15 5.6b 208 3-160
IDC III 11 10 22 01.0–.44 36.66N 142.58E 0 5.6,5.5b ¶17193768
ISCJB III 11 10 22 01.9–.23 36.61N–.04 142.47E–.05 15 5.5b,5.5b
NEIC III 11 10 22 02.6–.20 36.67N 142.52E 10 5.5b,5.5b
MOS III 11 10 22 04.4–1.2 36.60N 142.46E 33 6.0b,5.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=11.4km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.1km az=21.5.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.8km az=105.0.
MOS Error ellipse: s-maj=10.6km s-min=5.7km az=116.2.
ISC III 11 10 28 18.9–.39 38.02N–.06 143.59E–.05 19 4.9b 203 4-150
IDC III 11 10 28 15.5–.48 37.90N 143.64E 0 4.8,4.7 ¶16476179
ISCJB III 11 10 28 17.2–.23 37.96N–.04 143.57E–.04 19 4.9b,4.7
MOS III 11 10 28 18.8–.86 37.94N 143.59E 33 5.1b,4.7
NEIC III 11 10 28 21.0–.18 37.96N 143.57E 35 5.0b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=13.4km s-min=11.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.8km az=154.0.
MOS Error ellipse: s-maj=9.5km s-min=6.6km az=84.7.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.4km az=151.0.
ISC III 11 10 28 42.5–.45 39.44N–.03 143.65E–.04 19–3 5.9b 1384 3-158
BJI III 11 10 28 40.1 39.40N 143.50E 10 6.0b,5.8s ¶602707281
IDC III 11 10 28 42.5–5.6 39.40N 143.72E 20–35 5.5,5.4
NEIC III 11 10 28 42.7–.97 39.40N 143.59E 20–6 5.9b,5.4
ISCJB III 11 10 28 42.3–.09 39.39N–.02 143.66E–.02 28 5.8s,5.8b
MOS III 11 10 28 43.6–.85 39.50N 143.63E 33 6.0b,5.8b
ISC Event type ke.
IDC Error ellipse: s-maj=10.9km s-min=8.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=158.1.
MOS Error ellipse: s-maj=6.8km s-min=4.2km az=99.8.
ISC III 11 10 34 23.9–.91 38.8N–.20 143.2E–.10 16 4.2b 11 5-88
ISCJB III 11 10 34 21.9–.68 38.7N–.10 143.2E–.20 16 4.2b ¶16476298
IDC III 11 10 34 21.1–.79 38.77N 143.20E 0 4.4,4.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=14.5km az=138.6.
IDC Error ellipse: s-maj=23.8km s-min=20.8km az=121.0.
ISC III 11 10 39 56.4–1.8 37.2N–.30 142.6E–.10 9 4.6b 19 4-89
ISCJB III 11 10 39 55.4–1.4 37.3N–.20 142.6E–.10 9 4.5b ¶602654137
IDC III 11 10 39 55.5–2.2 37.22N 142.62E 0 4.6,4.5
NEIC III 11 10 39 60.0–1.0 37.10N 142.60E 35 4.6b,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.0km s-min=13.3km az=164.7.
IDC Error ellipse: s-maj=57.4km s-min=23.0km az=173.0.
NEIC Event type se. Error ellipse: s-maj=27.6km s-min=9.4km az=166.0.
ISC III 11 10 40 51.0–.78 36.7N–.10 142.57E–.10 15 4.6b 41 4-90
ISCJB III 11 10 40 49.6–.61 36.76N–.10 142.47E–.09 15 4.6b ¶16461313
IDC III 11 10 40 49.9–1.9 36.96N 142.53E 0 4.6,4.5
NEIC III 11 10 40 53.7–.55 36.69N 142.49E 35 5.0b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=9.4km az=162.0.
IDC Error ellipse: s-maj=51.9km s-min=16.5km az=180.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.9km az=156.0.
ISC III 11 10 42 14.8–.92 37.7N–.20 143.0E–.10 24 4.7b 23 4-89
ISCJB III 11 10 42 11.9–.73 37.5N–.10 143.0E–.10 24 4.7b ¶16476310
NEIC III 11 10 42 16.1–.76 37.63N 142.96E 35 4.9b
IDC III 11 10 42 20.5–3.3 37.53N 142.69E 74–28 4.7,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=14.1km az=8.9.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=14.7km az=154.0.
IDC Error ellipse: s-maj=26.1km s-min=16.8km az=80.0.
ISC III 11 10 44 06.4–.57 38.37N–.09 143.11E–.08 23 4.6b 44 1-88
IDC III 11 10 44 02.6–.58 38.36N 143.21E 0 4.6,4.5b ¶602654122
ISCJB III 11 10 44 04.4–.41 38.36N–.06 143.09E–.06 23 4.6b,4.5b
NEIC III 11 10 44 08.0–.29 38.39N 143.12E 35 5.0b,4.5b
JMA III 11 10 44 16.5–.30 38.97N 142.36E 36–4 4.6,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=14.1km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=6.7km az=159.5.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.8km az=127.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 10 45 43.5–.47 38.50N–.04 143.76E–.05 26–2 5.6b 628 4-150
IDC III 11 10 45 39.8–.45 38.40N 143.73E 0 5.3,5.2 ¶602707278
BJI III 11 10 45 43.8 38.58N 143.45E 31 5.8b,5.5
ISCJB III 11 10 45 43.5–.13 38.46N–.02 143.69E–.02 33 5.6s,5.5b
NEIC III 11 10 45 44.7–1.6 38.42N 143.75E 33–11 5.6b,5.5b
MOS III 11 10 45 45.1–1.0 38.71N 143.56E 38 5.7b,5.5b
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=146.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=151.9.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=138.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=96.6.
ISC III 11 10 47 11.6–.41 37.57N–.06 143.10E–.06 24 5.2b 145 4-151
IDC III 11 10 47 07.5–.62 37.45N 143.12E 0 5.1,5.1 ¶16461315
NEIC III 11 10 47 09.0–3.5 37.49N 143.05E 7–21 5.1,5.1
ISCJB III 11 10 47 09.9–.31 37.46N–.05 143.02E–.05 24 5.1s,5.1b
MOS III 11 10 47 11.3–1.3 37.50N 143.01E 33 5.7b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.2km az=159.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.4km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.9km az=144.5.
MOS Error ellipse: s-maj=10.3km s-min=7.7km az=109.6.
ISC III 11 10 52 05.0–.36 38.60N–.04 143.41E–.04 15 5.0b 387 3-146
BJI III 11 10 52 04.1 38.75N 143.47E 24 5.8b,5.4s ¶16304953
ISCJB III 11 10 52 04.2–.18 38.60N–.03 143.34E–.03 15 5.2s,5.0b
MOS III 11 10 52 07.8–.88 38.78N 143.26E 36 5.4b,5.0b
IDC III 11 10 52 08.6–2.3 38.45N 143.45E 45–21 4.8,4.6
NEIC III 11 10 52 08.3–.55 38.49N 143.36E 36–5 5.0b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.8km az=159.6.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=112.6.
IDC Error ellipse: s-maj=12.0km s-min=11.1km az=123.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.6km az=150.0.
ISC III 11 10 55 46.9–.76 37.07N–.08 142.57E–.09 9 4.4b 20 4-89
ISCJB III 11 10 55 45.0–.58 37.11N–.06 142.59E–.09 9 4.4b ¶16476320
IDC III 11 10 55 45.7–.82 37.07N 142.52E 0 4.5,4.3
NEIC III 11 10 55 50.8–.52 37.08N 142.44E 35 4.9b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=7.4km az=33.9.
IDC Error ellipse: s-maj=25.3km s-min=19.4km az=100.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.7km az=117.0.
ISC III 11 10 57 24.0–.72 36.52N–.08 142.68E–.08 15 4.4b 33 4-90
IDC III 11 10 57 21.1–1.8 36.39N 142.81E 0 4.4,4.4b ¶16476324
ISCJB III 11 10 57 22.1–.58 36.47N–.06 142.77E–.08 15 4.4b,4.4b
NEIC III 11 10 57 26.2–.51 36.39N 142.72E 35 4.8b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=46.7km s-min=19.0km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=7.0km az=42.7.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.9km az=145.0.
ISC III 11 11 00 17.4–.65 37.42N–.09 143.9E–.10 35 4.4b 22 5-76
IDC III 11 11 00 12.2–.65 37.47N 143.98E 0 4.7,4.7L ¶16476328
ISCJB III 11 11 00 15.0–.48 37.36N–.08 143.93E–.10 33 4.5b,4.7L
NEIC III 11 11 00 17.4–.36 37.46N 143.89E 35 4.9b,4.7L
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=14.6km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=6.8km az=43.6.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=6.8km az=136.0.
ISC III 11 11 00 26.6–.66 37.8N–.10 143.2E–.10 24 4.5b 19 4-154
IDC III 11 11 00 22.8–.63 37.69N 143.23E 0 4.8,4.6 ¶603049355
ISCJB III 11 11 00 24.3–.57 37.7N–.10 143.1E–.10 24 4.6b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 11 02 25.7–.47 39.09N–.07 143.09E–.07 16 5.1b 59 2-96
IDC III 11 11 02 23.0–.63 39.09N 143.07E 0 5.0,4.9 ¶16476330
ISCJB III 11 11 02 24.2–.31 39.15N–.05 143.03E–.06 16 5.0b,4.9
JMA III 11 11 02 25.6–.30 39.17N 142.96E 22–5 5.3,4.9
NEIC III 11 11 02 30.0–.77 39.17N 142.97E 48–7 5.3,4.9
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=13.8km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.7km az=136.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.6km az=119.0.
ISC III 11 11 06 04.4–.58 37.98N–.07 142.62E–.05 14 4.4b 42 1-145
ISCJB III 11 11 06 02.6–.47 37.97N–.07 142.82E–.04 14 4.5b ¶602654435
IDC III 11 11 06 02.3–.71 37.95N 142.61E 0 4.5,4.4
JMA III 11 11 06 04.3–.30 38.12N 142.70E 13 5.0,4.4
NEIC III 11 11 06 07.6–.34 38.00N 142.61E 35 5.0b,4.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=4.6km az=167.6.
IDC Error ellipse: s-maj=18.6km s-min=17.8km az=1.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.9km az=150.0.
ISC III 11 11 06 40.4–.43 36.97N–.06 142.62E–.06 9 4.8b 113 4-150
IDC III 11 11 06 39.0–.56 36.95N 142.59E 0 4.8,4.7 ¶602654431
ISCJB III 11 11 06 39.1–.33 37.04N–.04 142.57E–.05 9 4.8b,4.7
NEIC III 11 11 06 44.4–.25 37.02N 142.54E 35 4.8b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=14.1km s-min=12.8km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.2km az=141.5.
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.0km az=138.0. Recorded [3 JMA] in Fukushima, Ibaraki and Tochigi.
ISC III 11 11 08 45.9–.55 37.38N–.05 142.65E–.08 37–2 4.8b 106 1-97
JMA III 11 11 08 43.5–.20 37.49N 142.50E 11 5.0 ¶16453089
ISCJB III 11 11 08 44.8–.77 37.41N–.04 142.64E–.05 43–6 4.7b
NEIC III 11 11 08 47.4–.78 37.44N 142.62E 49–6 4.9b
IDC III 11 11 08 47.4–1.9 37.42N 142.57E 48–18 4.7,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.7km az=31.1.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=124.0.
IDC Error ellipse: s-maj=15.0km s-min=11.3km az=96.0.
ISC III 11 11 09 45.6–.39 36.49N–.05 143.27E–.06 35 5.1b 177 4-146
IDC III 11 11 09 40.6–.44 36.51N 143.33E 0 5.5,5.5s ¶602707287
MOS III 11 11 09 44.4–1.2 36.58N 143.28E 34 5.4b,5.5s
ISCJB III 11 11 09 44.0–.23 36.51N–.03 143.24E–.04 33 5.4s,5.0b
NEIC III 11 11 09 45.8–.17 36.48N 143.27E 35 5.2b,5.0b
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.7km az=98.0.
MOS Error ellipse: s-maj=11.7km s-min=6.5km az=107.8.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=150.5.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=123.0.
ISC III 11 11 15 52.0–.38 39.17N–.06 143.50E–.06 20 5.2b 252 2-148
ISCJB III 11 11 15 50.7–.20 39.18N–.03 143.40E–.04 20 5.0b ¶16453090
JMA III 11 11 15 51.0–.40 39.07N 143.54E 35 5.4
MOS III 11 11 15 53.9–.91 39.14N 143.38E 48 5.5b
IDC III 11 11 15 55.6–1.6 39.16N 143.44E 49–15 4.8,4.6
NEIC III 11 11 15 56.2–.55 39.19N 143.32E 52–5 5.3b,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.3km az=144.5.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=6.6km az=99.2.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=125.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=133.0.
ISC III 11 11 16 58.8–2.4 38.8N–.40 144.1E–.30 23 4.8b 11 17-77
IDC III 11 11 16 54.8–4.3 38.76N 143.94E 0 4.9,4.7 ¶17193801
ISC Event type ke.
IDC Error ellipse: s-maj=100.6km s-min=74.8km az=76.0.
ISC III 11 11 21 07.2–1.8 38.7N–.30 144.5E–.10 29 4.4b 15 13-87
IDC III 11 11 21 01.6–1.9 38.46N 144.46E 0 4.5,4.4 ¶16476338
ISC Event type ke.
IDC Error ellipse: s-maj=44.2km s-min=29.8km az=5.0.
ISC III 11 11 21 28.2–.35 37.59N–.06 143.10E–.06 24 5.8b 246 4-159
IDC III 11 11 21 24.0–.61 37.44N 143.12E 0 5.7,5.6 ¶17193802
ISCJB III 11 11 21 27.1–.25 37.60N–.04 143.01E–.05 24 5.7b,5.6
MOS III 11 11 21 29.6–.78 37.76N 142.98E 37 6.0b,5.6
NEIC III 11 11 21 29.8–.16 37.55N 143.07E 35 5.8b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=14.9km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.3km az=138.6.
MOS Error ellipse: s-maj=14.5km s-min=8.4km az=103.8.

NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=149.0.
JMA III 11 11 24 08.5–.20 37.74N 142.10E 23–4 4.5 ¶602654039
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 11 25 33.5–.42 35.55N–.05 142.04E–.07 22 4.5b 103 3-152
NEIC III 11 11 25 31.7–3.5 35.57N 142.01E 10–21 5.2b **¶16453092**
ISCJB III 11 11 25 31.5–.29 35.57N–.03 142.04E–.05 22 4.5b
IDC III 11 11 25 34.4–.48 35.50N 142.05E 33–3 4.4,4.3
ISC Event type se.
NEIC Event type fe. Error ellipse: s-maj=9.5km s-min=6.5km az=121.0. Recorded [2 JMA] in Chiba, Ibaraki, Tochigi.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=26.8.
IDC Error ellipse: s-maj=13.3km s-min=10.9km az=120.0.
ISC III 11 11 27 19.7–.34 39.17N–.04 143.44E–.05 20 5.2b 180 3-154
IDC III 11 11 27 16.5–.41 39.13N 143.44E 0 4.8,4.8 **¶16453093**
NEIC III 11 11 27 18.5–.16 39.13N 143.37E 10 5.4b,4.8
ISCJB III 11 11 27 18.2–.20 39.09N–.03 143.33E–.04 20 5.0b,4.8
MOS III 11 11 27 19.7–1.2 39.16N 143.38E 33 5.6b,4.8
JMA III 11 11 27 20.2–.30 39.26N 143.29E 0 5.7,4.8
ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=9.5km az=109.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=29.9.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=98.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 11 11 30 18.3–.47 39.24N–.05 143.54E–.06 11 5.2b 232 3-148
JMA III 11 11 30 16.2–.50 39.29N 143.63E 0 5.7 **¶602654035**
IDC III 11 11 30 16.7–.58 39.24N 143.48E 0 4.9,4.8
ISCJB III 11 11 30 17.1–.26 39.25N–.03 143.44E–.04 11 5.1b,4.8
NEIC III 11 11 30 19.1–1.7 39.22N 143.43E 14–10 5.4b,4.8
MOS III 11 11 30 20.6–1.0 39.31N 143.38E 34 5.5b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=11.7km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=135.3.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.4km az=138.0.
MOS Error ellipse: s-maj=8.5km s-min=5.4km az=112.6.
ISC III 11 11 32 12.5–.58 36.19N–.06 142.33E–.08 18 5.1b 53 3-154
ISCJB III 11 11 32 10.5–.47 36.17N–.04 142.36E–.07 18 5.0b **¶16461320**
IDC III 11 11 32 10.2–.88 36.13N 142.22E 0 5.1L,5.0
NEIC III 11 11 32 14.8–.18 36.24N 142.40E 35 5.7b,5.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=1.6.
IDC Error ellipse: s-maj=25.0km s-min=17.1km az=77.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.2km az=166.0.
ISC III 11 11 32 25.7–.55 39.13N–.04 143.23E–.04 26–3 5.7b 776 3-159
BJI III 11 11 32 20.5 39.08N 143.65E 20 5.8s,5.5 **¶16476340**
IDC III 11 11 32 21.3–.39 39.03N 143.25E 0 5.5,5.4
ISCJB III 11 11 32 24.2–.12 39.14N–.02 143.20E–.02 23 5.6b,5.4
MOS III 11 11 32 25.4–1.1 39.08N 143.12E 36 5.8b,5.4
NEIC III 11 11 32 27.1–.47 39.07N 143.17E 36–4 5.8b,5.4
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.7km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=159.2.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=97.8.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=136.0.
ISC III 11 11 35 26.2–.42 37.92N–.07 144.80E–.08 26 5.5b 125 4-164
IDC III 11 11 35 21.6–.60 37.83N 144.90E 0 5.1,4.9 **¶16476173**
ISCJB III 11 11 35 24.7–.24 37.89N–.05 144.70E–.05 26 5.6b,4.9
NEIC III 11 11 35 25.3–2.5 37.91N 144.78E 18–15 5.3b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.8km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=159.6.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=131.0.
ISC III 11 11 41 04.5–.81 36.7N–.10 142.07E–.08 19 4.7b 20 1-90
IDC III 11 11 41 01.0–.87 36.78N 142.39E 0 4.9,4.8L **¶17193806**
ISCJB III 11 11 41 02.8–.62 36.68N–.08 142.13E–.07 19 4.6b,4.8L
JMA III 11 11 41 08.5–.20 36.64N 141.78E 51–4 4.9,4.8L
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=22.5km az=176.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=7.3km az=19.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 11 11 42 02.9–.10 37.80N 142.03E 17–2 4.8 ¶602654025
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 11 44 24.9–1.0 36.74N–.03 142.34E–.03 15–6 5.7b 1062 1-161
IDC III 11 11 44 22.0–.33 36.65N 142.40E 0 5.5,5.4 **¶17193807**
ISCJB III 11 11 44 22.5–.98 36.71N–.02 142.30E–.02 6–6 6.2s,5.7b
JMA III 11 11 44 23.0–.30 36.70N 142.45E 13 5.7,5.7b
BJI III 11 11 44 25.7 36.59N 142.03E 24 6.1b,6.0
MOS III 11 11 44 26.7–1.2 36.81N 142.23E 34 5.9b,6.0
NEIC III 11 11 44 28.3–.10 36.70N 142.24E 35 5.7b,6.0
ISC Event type se.
IDC Error ellipse: s-maj=11.2km s-min=8.8km az=100.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=159.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.3km az=110.2.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.6km az=142.0.
ISC III 11 11 49 24.4–.45 37.92N–.08 144.44E–.07 35 4.8b 52 4-150
IDC III 11 11 49 19.0–.55 37.88N 144.47E 0 6.1,6.1s **¶602654008**
ISCJB III 11 11 49 22.3–.35 37.89N–.06 144.38E–.06 33 6.2s,4.7b
NEIC III 11 11 49 22.6–2.2 37.90N 144.49E 23–15 6.2s,4.7b
ISC Event type ke.
IDC Error ellipse: s-maj=17.8km s-min=13.6km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.5km az=150.3.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.3km az=110.0.
ISC III 11 11 53 56.7–.43 36.97N–.06 142.55E–.06 9 5.0b 157 4-150
IDC III 11 11 53 55.4–.53 36.95N 142.57E 0 4.7,4.6 **¶16310113**
ISCJB III 11 11 53 55.2–.24 36.94N–.04 142.51E–.04 9 5.7s,4.8b
MOS III 11 11 53 59.2–1.1 36.99N 142.48E 39 5.3b,4.8b
NEIC III 11 11 54 00.7–.19 36.93N 142.51E 35 5.3b,4.8b
BJI III 11 11 54 02.6 36.95N 141.97E 35 5.8b,5.6
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.4km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=157.3.
MOS Error ellipse: s-maj=9.3km s-min=6.6km az=115.2.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.9km az=149.0.
ISC III 11 11 55 21.1–.71 37.20N–.09 142.8E–.10 9 4.5b 34 4-81
ISCJB III 11 11 55 19.2–.52 37.20N–.07 142.72E–.09 9 4.5b **¶602707291**
IDC III 11 11 55 19.7–.74 37.24N 142.72E 0 4.5,4.4
NEIC III 11 11 55 21.3–.42 37.23N 142.70E 10 5.3b,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.8km az=43.7.
IDC Error ellipse: s-maj=20.7km s-min=14.8km az=98.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.4km az=118.0.
ISC III 11 11 55 37.9–.82 37.2N–.10 142.9E–.20 25 4.5b 9 29-77
IDC III 11 11 55 34.0–.75 37.18N 142.88E 0 4.8,4.6 **¶603049366**
ISCJB III 11 11 55 35.8–.69 37.2N–.10 142.8E–.20 25 4.6b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 11 56 34.6–.35 37.68N–.06 143.04E–.05 24 5.3b 220 4-154
IDC III 11 11 56 30.5–.47 37.64N 143.11E 0 5.2,5.2b **¶602707293**
ISCJB III 11 11 56 33.3–.27 37.71N–.04 142.98E–.05 24 5.3b,5.2b
MOS III 11 11 56 34.6–1.1 37.80N 142.97E 33 5.6b,5.2b
NEIC III 11 11 56 34.9–1.9 37.69N 143.01E 26–13 5.6b,5.2b
ISC Event type ke.
IDC Error ellipse: s-maj=17.9km s-min=13.7km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.3km az=142.2.
MOS Error ellipse: s-maj=11.6km s-min=7.4km az=102.8.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=125.0.
ISC III 11 11 58 52.9–.37 35.81N–.05 142.16E–.04 23 5.3b 131 2-151

IDC III 11 11 58 48.1–.59 35.70N 142.13E 0 5.6,5.6s **¶16476176**
ISCJB III 11 11 58 51.2–.25 35.77N–.04 142.06E–.04 23 5.4s,5.2b
MOS III 11 11 58 52.7–1.5 35.73N 142.06E 38 5.5b,5.2b
NEIC III 11 11 58 54.4–.24 35.75N 142.08E 35 5.6b,5.2b
JMA III 11 11 58 55.8–.40 37.92N 142.74E 30 5.4,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=15.9km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=15.5.
MOS Error ellipse: s-maj=10.7km s-min=7.6km az=114.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=143.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISC III 11 12 01 12.0–.75 37.7N–.10 143.07E–.10 24 4.6b 28 4-145
IDC III 11 12 01 08.2–.67 37.67N 143.08E 0 4.7,4.5 **¶16476357**
ISCJB III 11 12 01 09.9–.54 37.65N–.09 143.04E–.09 24 4.5b,4.5
NEIC III 11 12 01 13.3–.33 37.65N 143.06E 35 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.6km az=0.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=9.8km az=169.6.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.9km az=164.0.
ISC III 11 12 04 14.2–.39 36.29N–.05 142.78E–.05 29 4.9b 165 4-154
IDC III 11 12 04 10.0–.48 36.32N 142.72E 0 4.7,4.6 **¶602653982**
NEIC III 11 12 04 11.9–.19 36.33N 142.74E 10 5.1b,4.6
ISCJB III 11 12 04 12.8–.24 36.27N–.04 142.69E–.04 29 4.9s,4.9b
BJI III 11 12 04 13.4 36.36N 142.40E 16 5.8s,5.6
MOS III 11 12 04 14.3–1.0 36.48N 142.66E 34 5.3b,5.6
ISC Event type ke.
IDC Error ellipse: s-maj=13.8km s-min=11.6km az=115.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.0km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=157.4.
MOS Error ellipse: s-maj=9.1km s-min=6.9km az=107.0.
ISC III 11 12 07 53.0–.71 37.6N–.10 144.09E–.09 35 4.3b 37 5-88
IDC III 11 12 07 48.0–.67 37.64N 144.24E 0 4.5,4.3 **¶16461323**
ISCJB III 11 12 07 50.8–.50 37.59N–.07 144.06E–.07 33 4.3b,4.3
NEIC III 11 12 07 52.8–.54 37.59N 144.05E 35 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=14.4km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.8km az=155.3.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.4km az=151.0.
ISC III 11 12 08 43.0–.75 37.1N–.10 142.60E–.07 10 4.4b 29 4-146
ISCJB III 11 12 08 41.4–.52 37.08N–.09 142.70E–.07 10 4.4b **¶17193824**
IDC III 11 12 08 41.6–.71 37.09N 142.69E 0 4.6,4.4
NEIC III 11 12 08 47.0–.37 37.12N 142.65E 35 4.3b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=7.5km az=162.1.
IDC Error ellipse: s-maj=20.0km s-min=17.5km az=134.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.4km az=157.0.
ISC III 11 12 10 16.7–.42 38.83N–.06 144.68E–.05 19 4.8b 139 3-148
IDC III 11 12 10 13.9–.50 38.90N 144.72E 0 4.7,4.6 **¶602653968**
ISCJB III 11 12 10 14.9–.28 38.82N–.04 144.61E–.04 19 4.7b,4.6
MOS III 11 12 10 16.9–1.2 38.90N 144.59E 33 5.2b,4.6
NEIC III 11 12 10 19.1–.32 38.90N 144.64E 35 5.0b,4.6
JMA III 11 12 10 57.9–.30 37.46N 142.32E 23 4.8,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.5km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=153.1.
MOS Error ellipse: s-maj=9.3km s-min=7.6km az=114.7.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.6km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 11 12 10 27.8–1.2 39.0N–.20 144.6E–.20 19 4.5b 18 6-153
ISCJB III 11 12 10 25.6–1.3 38.9N–.20 144.6E–.20 19 4.5b **¶17193827**
IDC III 11 12 10 25.1–1.4 39.04N 144.59E 0 4.8L,4.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.7km s-min=12.5km az=157.2.
IDC Error ellipse: s-maj=41.4km s-min=18.2km az=168.0.
ISC III 11 12 12 00.3–.86 37.8N–.20 143.7E–.10 19 4.5b 12 11-149
IDC III 11 12 11 57.4–.79 37.89N 143.62E 0 4.6,4.3 **¶16476367**
ISCJB III 11 12 11 58.6–.72 37.8N–.10 143.6E–.10 19 4.4b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 12 15 27.5–.58 39.33N–.10 143.7E–.10 11 5.2b 50 7-147
ISCJB III 11 12 15 25.7–.44 39.29N–.07 143.64E–.09 11 5.7s,5.1b **¶16453099**
IDC III 11 12 15 25.7–.56 39.32N 143.65E 0 5.7,5.7s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.7km az=138.8.
IDC Error ellipse: s-maj=17.3km s-min=13.3km az=129.0.
ISC III 11 12 17 36.8–1.3 37.1N–.20 143.0E–.20 21 4.8b 6 2-75
IDC III 11 12 17 33.4–2.2 37.12N 143.00E 0 5.0,4.9 **¶17193832**
ISCJB III 11 12 17 34.5–1.2 37.0N–.20 143.0E–.10 21 4.8b,4.9
JMA III 11 12 17 46.0–.40 38.14N 142.29E 46 4.8,4.9
ISC Event type ke.
IDC Error ellipse: s-maj=104.9km s-min=28.9km az=79.0.
ISCJB Event type fe. Error ellipse: s-maj=30.0km s-min=15.1km az=12.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 12 20 37.7–.85 36.3N–.20 142.08E–.09 19 4.3b 14 1-147
IDC III 11 12 20 34.4–.74 36.42N 142.00E 0 4.6,4.3 **¶16476141**
JMA III 11 12 20 41.9–.20 36.33N 141.22E 43–3 3.8,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=19.7km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 11 12 20 40.5–5.3 36.90N 142.63E 0 4.7,4.6 ¶17193833
IDC Error ellipse: s-maj=99.4km s-min=46.5km az=20.0.
IDC III 11 12 24 10.2–1.0 38.10N 143.65E 0 4.4,4.1 ¶16310115
IDC Error ellipse: s-maj=39.4km s-min=24.0km az=106.0.
ISC III 11 12 24 30.2–.82 39.6N–.10 143.6E–.10 11 4.4b 22 5-87
ISCJB III 11 12 24 28.3–.65 39.61N–.10 143.6E–.10 11 4.3b **¶16476376**
IDC III 11 12 24 28.9–1.8 39.71N 143.52E 0 4.5,4.3
NEIC III 11 12 24 29.8–4.5 39.63N 143.48E 8–29 4.2b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=10.6km az=152.8.
IDC Error ellipse: s-maj=46.3km s-min=17.3km az=177.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.7km az=151.0.
ISC III 11 12 27 24.3–.81 37.4N–.10 142.8E–.10 24 4.3b 12 2-89
IDC III 11 12 27 20.9–.80 37.49N 142.81E 0 4.5,4.3 **¶16461325**
ISCJB III 11 12 27 22.7–.64 37.46N–.09 142.7E–.10 24 4.3b,4.3
JMA III 11 12 27 43.3–.30 36.03N 141.93E 44 4.0,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=18.6km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=12.1km az=23.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 11 12 27 46.7–.78 38.25N–.10 143.1E–.10 18 4.4b 25 4-88
ISCJB III 11 12 27 44.7–.66 38.28N–.08 143.1E–.10 18 4.3b **¶17193841**
IDC III 11 12 27 50.9–3.6 38.18N 142.93E 57–30 4.3,4.2
NEIC III 11 12 27 51.6–1.1 38.19N 142.97E 64–9 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=10.8km az=39.6.
IDC Error ellipse: s-maj=25.4km s-min=17.6km az=89.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.5km az=103.0.
ISC III 11 12 29 33.7–.74 37.1N–.10 142.3E–.20 35 4.7b 18 33-146
ISCJB III 11 12 29 31.7–.71 37.1N–.10 142.3E–.30 35 4.6b **¶17193847**
IDC III 11 12 29 33.7–.68 37.14N 142.29E 34–4 4.6,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.4km s-min=16.8km az=23.0.
IDC Error ellipse: s-maj=29.6km s-min=15.5km az=113.0.
ISC III 11 12 32 48.6–1.1 37.8N–.20 144.5E–.10 35 4.2b 12 5-75
IDC III 11 12 32 43.3–.98 37.83N 144.59E 0 4.4,4.2 **¶16476387**
ISCJB III 11 12 32 46.6–.89 37.8N–.20 144.5E–.10 33 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 12 32 58.2–.91 37.9N–.20 144.5E–.20 35 4.1b 13 18-75

IDC III 11 12 32 53.0–.78 37.77N 144.64E 0 4.4,4.1 **¶17193848**
ISCJB III 11 12 32 55.8–.70 37.8N–.10 144.5E–.20 33 4.2b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 12 34 20.6–.37 37.08N–.05 143.61E–.05 35 5.1b 241 4-153
IDC III 11 12 34 17.8–.83 37.29N 142.74E 28–5 4.7,4.7 **¶16449482**
BJI III 11 12 34 18.0 36.90N 143.70E 35 5.6b,5.5s
NEIC III 11 12 34 19.7–.76 36.99N 143.62E 26–5 5.3b,5.5s
MOS III 11 12 34 19.3–1.5 37.06N 143.65E 34 5.5b,5.5s
ISCJB III 11 12 34 19.1–.19 36.98N–.03 143.59E–.04 33 5.2s,5.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 12 34 34.2–.54 37.45N–.07 143.34E–.06 24–3 5.2b 151 4-152
NEIC III 11 12 34 31.8–.25 37.46N 143.30E 10 5.4b **¶16476177**
ISCJB III 11 12 34 32.2–.29 37.42N–.04 143.30E–.05 25 5.2b
IDC III 11 12 34 34.9–.57 37.45N 143.05E 26–3 5.0,5.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.4km az=137.2.
IDC Error ellipse: s-maj=20.1km s-min=15.1km az=64.0.
ISC III 11 12 35 21.6–.61 39.30N–.07 143.5E–.10 11 5.1b 32 3-84
IDC III 11 12 35 18.9–1.2 39.28N 142.76E 0 5.2,4.9 **¶16313882**
ISCJB III 11 12 35 20.3–.45 39.22N–.05 143.5E–.10 11 5.0b,4.9
NEIC III 11 12 35 21.7–.54 39.28N 143.51E 10 5.0b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=39.9km s-min=33.3km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=6.6km az=18.4.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=10.4km az=122.0.
ISC III 11 12 38 06.9–2.0 36.94N–.05 142.20E–.05 12–11 4.8b 61 1-151
IDC III 11 12 38 05.2–.69 36.96N 142.16E 0 4.7,4.6 **¶16476142**
ISCJB III 11 12 38 08.3–.97 36.90N–.04 142.23E–.06 35–8 4.7b,4.6
JMA III 11 12 38 09.3–.30 37.01N 142.18E 39 5.1,4.6
NEIC III 11 12 38 09.8–2.1 37.02N 142.16E 29–15 4.6b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=14.7km az=159.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=6.5km az=3.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=6.0km az=127.0. Recorded [2 JMA] in Ibaraki, Iwate, Miyagi and Tochigi.
ISC III 11 12 40 34.9–1.1 37.2N–.20 142.1E–.20 19 4.1b 11 28-83
IDC III 11 12 40 31.8–1.0 37.22N 142.13E 0 4.4,4.2 **¶17193852**
ISCJB III 11 12 40 32.9–.92 37.2N–.20 142.1E–.20 19 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 12 41 54.3–.71 37.8N–.10 142.68E–.06 14 4.1b 22 1-145
ISCJB III 11 12 41 52.4–.60 37.80N–.09 142.82E–.06 14 4.1b **¶17193853**
JMA III 11 12 41 55.0–.30 38.01N 142.72E 12 4.6
IDC III 11 12 41 55.9–.91 37.88N 142.69E 24–5 4.2,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=12.4km s-min=6.6km az=177.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.2km s-min=15.8km az=95.0.
ISC III 11 12 43 52.0–1.7 36.6N–.20 142.1E–.20 19 4.3b 5 1-57
IDC III 11 12 43 46.9–2.7 36.80N 142.60E 0 4.4,4.3L **¶602653945**
JMA III 11 12 43 56.9–.20 37.09N 141.69E 39–3 4.1,4.3L
ISC Event type ke.
IDC Error ellipse: s-maj=73.4km s-min=30.0km az=61.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 12 44 50.4–.74 38.5N–.10 144.4E–.10 29 4.2b 14 5-87
IDC III 11 12 44 46.0–.67 38.54N 144.50E 0 4.3,4.1 **¶17193858**
ISCJB III 11 12 44 48.5–.60 38.5N–.10 144.4E–.10 29 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 12 45 30.1–.82 37.2N–.10 143.0E–.10 35 4.0b 16 2-89
JMA III 11 12 45 28.7–.10 36.89N 141.11E 47–1 3.1 **¶16476143**
ISCJB III 11 12 45 28.4–.68 37.2N–.10 142.8E–.10 35 4.0b
IDC III 11 12 45 29.1–.91 37.16N 142.88E 25–5 4.1,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=13.4km az=11.2.
IDC Error ellipse: s-maj=20.8km s-min=19.3km az=0.0.
ISC III 11 12 47 25.6–1.1 36.79N–.09 142.08E–.08 19 3.9b 14 1-75
IDC III 11 12 47 22.1–1.0 37.04N 142.22E 0 4.0,3.8 **¶17193863**
ISCJB III 11 12 47 24.1–.90 36.69N–.08 142.11E–.07 19 3.8b,3.8
JMA III 11 12 47 30.4–.30 36.63N 141.74E 56 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.6km s-min=23.5km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=8.1km az=20.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 11 12 48 26.4–.89 37.2N–.10 144.0E–.10 35 4.1b 20 5-150
IDC III 11 12 48 21.3–.97 37.15N 144.05E 0 4.7,4.7s **¶16304975**
ISCJB III 11 12 48 24.1–.79 37.06N–.09 144.0E–.10 33 4.1b,4.7s
NEIC III 11 12 48 27.1–1.7 37.04N 143.98E 42–14 4.2b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=26.2km s-min=19.3km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=9.9km az=138.1.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=10.0km az=124.0.
ISC III 11 12 50 57.1–.66 39.57N–.07 143.52E–.09 11 5.0b 42 2-150
ISCJB III 11 12 50 54.9–.52 39.49N–.06 143.58E–.09 11 4.8b **¶602653922**
IDC III 11 12 50 55.1–.70 39.46N 143.44E 0 5.0,4.8
NEIC III 11 12 50 57.6–3.1 39.50N 143.59E 17–19 5.0,4.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.4km az=36.6.
IDC Error ellipse: s-maj=19.5km s-min=15.6km az=133.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.0km az=123.0.
ISC III 11 12 53 51.0–1.0 37.69N–.09 142.3E–.10 10 4.3b 14 3-62
ISCJB III 11 12 53 49.2–.82 37.72N–.07 142.2E–.10 10 4.2b **¶16476163**
IDC III 11 12 53 50.2–1.2 37.70N 142.32E 0 4.4L,4.3
NEIC III 11 12 53 54.6–.97 37.72N 142.23E 35 4.3b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=9.3km az=20.9.
IDC Error ellipse: s-maj=36.7km s-min=24.9km az=103.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=14.5km az=89.0.
ISC III 11 12 56 03.8–.31 37.77N–.04 142.01E–.04 25–1 5.4b 187 1-151
JMA III 11 12 56 03.6–.20 37.79N 142.05E 29–5 5.3 **¶602653906**
ISCJB III 11 12 56 03.1–1.5 37.71N–.03 142.08E–.04 31–11 5.2b
MOS III 11 12 56 04.4–.92 37.95N 141.95E 33 5.8b
IDC III 11 12 56 05.2–.57 37.79N 142.06E 34–3 4.9,4.8
NEIC III 11 12 56 05.3–.17 37.80N 141.96E 35 5.5b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=139.5.
MOS Error ellipse: s-maj=12.2km s-min=9.1km az=84.5.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.9km az=125.0.
ISC III 11 13 00 20.9–1.7 39.8N–.20 143.0E–.20 12 4.6b 7 9-73
ISCJB III 11 13 00 19.2–1.4 39.8N–.20 143.0E–.30 12 4.5b **¶17193867**
IDC III 11 13 00 19.5–2.0 39.81N 142.89E 0 5.0,5.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.6km s-min=21.8km az=151.6.
IDC Error ellipse: s-maj=54.2km s-min=27.9km az=68.0.
ISC III 11 13 01 21.4–.77 36.14N–.09 142.0E–.10 23 4.3b 16 3-147
IDC III 11 13 01 17.8–.82 36.11N 142.07E 0 4.5,4.4 **¶17193868**
ISCJB III 11 13 01 19.5–.65 36.11N–.07 142.0E–.10 23 4.3b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 13 02 41.0–.81 36.62N–.04 142.03E–.05 26–5 5.1b 188 1-146
IDC III 11 13 02 37.1–.59 36.56N 142.05E 0 4.8,4.7 **¶602653887**
ISCJB III 11 13 02 39.7–1.2 36.56N–.03 142.09E–.03 31–8 5.1s,5.0b
JMA III 11 13 02 39.9–.20 36.57N 142.12E 55 4.8,5.0b
BJI III 11 13 02 40.5 36.57N 141.63E 21 5.8b,5.4
MOS III 11 13 02 40.9–.98 36.62N 142.03E 39 5.4b,5.4
NEIC III 11 13 02 43.2–.90 36.54N 141.98E 42–8 5.3b,5.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.1km s-min=12.9km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.3km az=146.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=5.9km az=129.1.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.5km az=51.0.
ISC III 11 13 10 08.5–.91 37.8N–.20 142.7E–.20 14 4.3b 16 22-145
ISCJB III 11 13 10 06.4–.71 37.7N–.10 142.7E–.20 14 4.2b **¶602653865**
IDC III 11 13 10 06.3–.76 37.79N 142.66E 0 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=16.2km az=28.3.
IDC Error ellipse: s-maj=21.4km s-min=18.3km az=101.0.
ISC III 11 13 11 58.8–.87 37.8N–.10 143.9E–.10 19 4.2b 16 5-76
IDC III 11 13 11 55.3–.78 37.82N 143.65E 0 4.3,4.1 **¶17193872**
ISCJB III 11 13 11 56.2–.67 37.7N–.10 143.7E–.10 19 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 13 13 08.4–.54 37.90N–.07 143.22E–.07 19 4.5b 58 4-145
IDC III 11 13 13 05.4–.54 37.88N 143.41E 0 4.5,4.4 **¶602653857**
ISCJB III 11 13 13 06.3–.40 37.86N–.06 143.36E–.07 19 4.4b,4.4
NEIC III 11 13 13 10.4–.33 37.88N 143.32E 35 4.8b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.0km s-min=13.1km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.3km az=137.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=138.0.
JMA III 11 13 14 39.5–.40 37.88N 143.68E 53 4.8
¶603049389
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 13 14 40.1–.52 37.71N–.06 143.81E–.07 35 4.6b 67 4-153
IDC III 11 13 14 35.2–.57 37.67N 143.85E 0 4.7s,4.7 **¶602653846**
ISCJB III 11 13 14 37.9–.36 37.70N–.04 143.79E–.05 33 4.8s,4.7b
NEIC III 11 13 14 40.2–.35 37.74N 143.76E 35 5.1b,4.7b
ISC Event type ke.
IDC Error ellipse: s-maj=15.2km s-min=12.7km az=153.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.1km az=139.5.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.1km az=137.0.
IDC III 11 13 14 54.0–.81 36.71N 145.45E 0 4.8,4.6
¶17193877
IDC Error ellipse: s-maj=38.9km s-min=19.5km az=98.0.
ISC III 11 13 18 15.0–.48 37.54N–.08 142.80E–.09 24 5.5b 110 4-145
IDC III 11 13 18 12.3–.68 37.57N 142.75E 0 5.3,5.2 **¶16449446**
ISCJB III 11 13 18 13.5–.30 37.52N–.05 142.86E–.07 24 5.3b,5.2
NEIC III 11 13 18 16.6–.32 37.58N 142.83E 35 5.5b,5.2
MOS III 11 13 18 17.9–1.1 38.01N 142.90E 36 5.6b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=22.5km s-min=17.1km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.6km az=42.4.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.8km az=126.0.
MOS Error ellipse: s-maj=15.9km s-min=7.6km az=95.9.
ISC III 11 13 21 15.6–1.1 37.20N–.09 143.2E–.10 35 4.8b 20 4-75
IDC III 11 13 21 10.7–1.4 37.23N 143.36E 0 4.9,4.8 **¶16476414**
ISCJB III 11 13 21 13.8–.82 37.20N–.07 143.1E–.20 35 4.8b,4.8
NEIC III 11 13 21 16.0–.77 37.22N 143.10E 35 4.4b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=53.7km s-min=20.3km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=10.1km az=4.3.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=9.4km az=100.0.
ISC III 11 13 24 58.6–.71 37.33N–.08 143.7E–.10 35 4.5b 30 4-89
IDC III 11 13 24 53.4–.69 37.27N 143.66E 0 4.6,4.5 **¶16449458**
ISCJB III 11 13 24 56.5–.53 37.27N–.07 143.63E–.09 33 4.4b,4.5
NEIC III 11 13 24 58.6–.49 37.31N 143.63E 35 4.3b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=16.6km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=9.5km az=40.2.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.9km az=118.0.
ISC III 11 13 26 24.4–.56 35.75N–.07 142.20E–.08 22 4.6b 48 3-147
IDC III 11 13 26 21.4–.60 35.79N 142.19E 0 4.8,4.8s **¶602653839**
ISCJB III 11 13 26 22.4–.43 35.75N–.05 142.21E–.06 22 4.4b,4.8s
NEIC III 11 13 26 26.4–.46 35.79N 142.14E 35 5.0b,4.8s
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.2km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.3km az=136.8.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.0km az=131.0.
ISC III 11 13 28 30.4–.93 37.7N–.10 144.1E–.20 35 4.2b 12 5-75
ISCJB III 11 13 28 28.2–.93 37.7N–.10 144.1E–.20 33 4.3b **¶602443418**
IDC III 11 13 28 30.3–.89 37.74N 144.05E 32–7 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=18.0km az=22.6.
IDC Error ellipse: s-maj=29.0km s-min=18.1km az=95.0.
ISC III 11 13 29 12.2–.67 36.99N–.09 142.18E–.08 19 4.2b 40 3-90
IDC III 11 13 29 09.1–.92 36.90N 142.23E 0 4.4,4.2 **¶602653834**
ISCJB III 11 13 29 10.4–.53 37.03N–.07 142.16E–.06 19 4.2b,4.2
NEIC III 11 13 29 11.3–3.7 37.00N 142.18E 13–23 4.4b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=14.2km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=5.8km az=151.4.
NEIC Event type fe. Error ellipse: s-maj=12.6km s-min=6.9km az=134.0. Recorded [3 JMA] in Fukushima.
ISC III 11 13 35 44.5–.57 39.16N–.10 143.79E–.09 23 4.9b 40 5-145
IDC III 11 13 35 40.9–.66 39.16N 143.82E 0 5.1,4.9 **¶16461331**
ISCJB III 11 13 35 42.7–.52 39.16N–.08 143.77E–.09 23 4.9b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 13 38 57.8–.72 37.4N–.10 144.4E–.10 35 4.5b 21 5-82
IDC III 11 13 38 52.7–.72 37.37N 144.51E 0 4.6,4.5L **¶16449464**
ISCJB III 11 13 38 55.5–.52 37.43N–.07 144.4E–.10 33 4.4b,4.5L
NEIC III 11 13 38 57.7–.40 37.44N 144.38E 35 4.4b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=31.2km s-min=17.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=9.0km az=37.6.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.2km az=126.0.
JMA III 11 13 40 54.1–.30 37.94N 142.81E 38 4.3
¶16476426
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 11 13 41 28.1–1.2 37.32N 142.88E 0 4.1,4.1L
¶603049397
IDC Error ellipse: s-maj=54.2km s-min=25.2km az=131.0.
ISC III 11 13 42 22.7–1.7 37.34N–.04 142.12E–.04 5–10 5.3s,4.9b 532 1-146
IDC III 11 13 42 22.2–.50 37.30N 142.10E 0 5.1s,5.1 **¶17193890**
ISCJB III 11 13 42 24.6–.76 37.37N–.02 142.12E–.02 22–5 5.3s,4.9b
MOS III 11 13 42 25.1–1.2 37.42N 142.10E 29 5.2b,4.9b
JMA III 11 13 42 25.2–.30 37.37N 142.05E 20–4 4.8,4.9b
NEIC III 11 13 42 27.2–.62 37.34N 142.06E 33–4 5.0b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=11.3km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.8km az=157.6.
MOS Error ellipse: s-maj=7.8km s-min=5.8km az=108.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=165.0.
ISC III 11 13 43 10.7–.36 39.01N–.04 144.23E–.04 31–2 5.6b 1292 3-158
IDC III 11 13 43 06.0–.35 38.91N 144.22E 0 5.6s,5.5 **¶602707297**
JMA III 11 13 43 07.9–.60 39.02N 144.22E 39 5.7,5.5
ISCJB III 11 13 43 08.7–.09 39.02N–.02 144.21E–.02 28 5.9s,5.5b
BJI III 11 13 43 09.2 39.06N 143.98E 20 6.1b,5.9s
NEIC III 11 13 43 09.6–1.5 38.99N 144.13E 25–10 5.7b,5.9s
MOS III 11 13 43 10.2–1.2 38.94N 144.15E 41 5.9b,5.8s
ISC Event type ke.
IDC Error ellipse: s-maj=10.5km s-min=9.1km az=113.0.

JMA Event type fe. Error ellipse: s-maj=5.6km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=161.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.4km az=145.0.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=107.6.

ISC	**III**	**11 13 48 37.3–.50**	**38.43N–.04**	**143.23E–.05**	**26–3**	**5.3b**	**727**	**4-144**
IDC	III	11 13 48 33.3–.47	38.34N	143.17E	0	5.0,4.9		¶17193892
MOS	III	11 13 48 36.7–1.1	38.45N	143.13E	33	5.4b,4.9		
ISCJB	III	11 13 48 36.1–.14	38.39N–.03	143.10E–.03	28	5.2b,4.9		
BJI	III	11 13 48 37.1	38.40N	143.10E	25	5.7b,5.4s		
NEIC	III	11 13 48 37.8–1.5	38.37N	143.12E	33–10	5.3b,5.4s		

ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=10.7km az=137.0.
MOS Error ellipse: s-maj=7.1km s-min=4.2km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=165.3.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.5km az=142.0. Recorded [3 JMA] in Fukushima and Ibaraki.

ISC	**III**	**11 13 50 33.8–.61**	**37.27N–.09**	**144.16E–.09**	**35**	**4.7b**	**53**	**5-98**
IDC	III	11 13 50 28.9–.69	37.28N	144.22E	0	4.8,4.6		¶16409237
NEIC	III	11 13 50 30.0–3.7	37.22N	144.25E	9–23	4.9b,4.6		
ISCJB	III	11 13 50 31.8–.37	37.22N–.06	144.15E–.08	33	4.7b,4.6		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**11 13 54 38.3–.71**	**37.70N–.09**	**142.69E–.08**	**21**	**4.3b**	**25**	**2-89**
IDC	III	11 13 54 35.5–1.9	37.76N	142.79E	0	4.4,4.3		¶16476430
ISCJB	III	11 13 54 36.8–.60	37.66N–.08	142.66E–.09	21	4.2b,4.3		
NEIC	III	11 13 54 36.8–6.2	37.67N	142.73E	11–39	4.0b,4.3		
JMA	III	11 13 54 46.9–.20	38.63N	142.34E	31–3	4.4,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=48.0km s-min=22.3km az=175.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.8km az=3.3.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=13.6km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**III**	**11 13 54 59.9–1.1**	**37.8N–.20**	**142.6E–.20**	**10**	**4.6b**	**13**	**28-82**
ISCJB	III	11 13 54 57.8–.96	37.8N–.20	142.7E–.20	10	4.5b		¶17193894
IDC	III	11 13 54 58.3–1.0	37.79N	142.63E	0	4.6,4.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.9km s-min=19.6km az=162.4.
IDC Error ellipse: s-maj=26.6km s-min=23.7km az=141.0.

ISC	**III**	**11 13 55 26.3–.49**	**37.98N–.05**	**142.92E–.05**	**25–3**	**5.3b**	**1008**	**4-154**
ISCJB	III	11 13 55 26.1–.12	38.06N–.03	142.86E–.02	29	5.2b		¶16476432
MOS	III	11 13 55 26.0–1.1	38.01N	142.99E	33	5.5b		
IDC	III	11 13 55 27.8–3.4	37.92N	142.94E	33–25	5.1,5.0		
BJI	III	11 13 55 28.4	38.06N	142.73E	53	5.6b,5.4		
NEIC	III	11 13 55 28.9–.62	38.00N	142.90E	47–5	5.2b,5.4		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.1km az=162.7.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=100.9.
IDC Error ellipse: s-maj=11.4km s-min=9.7km az=121.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=145.0. Recorded [3 JMA] in Fukushima, Iwate and Miyagi.

ISC	**III**	**11 14 02 03.0–.97**	**37.0N–.20**	**142.7E–.30**	**9**	**4.7b**	**9**	**57-89**
ISCJB	III	11 14 02 01.1–.77	37.0N–.10	142.5E–.30	9	4.5b		¶17193898
IDC	III	11 14 02 01.5–.96	37.06N	142.67E	0	4.7,4.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.9km s-min=20.0km az=175.7.
IDC Error ellipse: s-maj=45.5km s-min=24.6km az=84.0.

ISC	**III**	**11 14 08 56.7–.50**	**36.74N–.07**	**143.17E–.07**	**29**	**4.1b**	**48**	**4-146**
ISCJB	III	11 14 08 54.9–.42	36.73N–.05	143.14E–.06	29	4.2b		¶16449469
NEIC	III	11 14 08 57.6–.34	36.73N	143.15E	35	4.4b		
IDC	III	11 14 08 58.4–.54	36.85N	143.18E	36–4	4.2,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=43.6.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.8km az=142.0.
IDC Error ellipse: s-maj=16.0km s-min=13.1km az=128.0.

ISC	**III**	**11 14 10 36.9–.41**	**37.50N–.03**	**142.01E–.04**	**20–3**	**5.2b,4.9s**	**540**	**1-156**
IDC	III	11 14 10 34.0–.39	37.51N	142.04E	0	5.2,5.1		¶602653221
BJI	III	11 14 10 34.9	37.50N	142.17E	28	5.7b,5.2s		
NEIC	III	11 14 10 37.2–.71	37.50N	141.94E	22–5	5.2b,5.2s		
JMA	III	11 14 10 38.8–.20	37.50N	142.00E	31–4	5.2,5.2s		
MOS	III	11 14 10 38.4–1.0	37.73N	141.97E	33	5.5b,5.2s		
ISCJB	III	11 14 10 38.5–.43	37.58N–.03	142.01E–.03	40–3	5.1b,4.9s		

ISC Event type ke.
NEIC Event type fe. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISCJB Event type fe.

ISC	**III**	**11 14 13 23.4–1.4**	**38.6N–.10**	**143.7E–.20**	**15**	**4.5b**	**12**	**5-82**
ISCJB	III	11 14 13 21.5–1.2	38.60N–.09	143.7E–.20	15	4.4b		¶16476438
IDC	III	11 14 13 21.7–2.9	38.78N	143.73E	0	4.6,4.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.3km s-min=9.9km az=25.1.
IDC Error ellipse: s-maj=66.6km s-min=31.0km az=160.0.

ISC	**III**	**11 14 13 42.8–.77**	**36.82N–.09**	**142.48E–.07**	**10**	**4.4b**	**22**	**1-146**
IDC	III	11 14 13 43.7–.69	37.60N	142.99E	0	4.6,4.4		¶17193902
NEIC	III	11 14 13 44.9–.48	37.56N	142.90E	10	4.2b,4.4		
JMA	III	11 14 13 51.0–.50	36.42N	141.89E	85	3.8,4.4		

ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=18.6km az=97.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.9km az=117.0.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.

ISC	**III**	**11 14 16 11.4–1.1**	**38.3N–.20**	**143.7E–.20**	**15**	**4.3b**	**11**	**6-74**
IDC	III	11 14 16 09.2–1.1	38.29N	143.68E	0	4.4,4.3		¶17193908
ISCJB	III	11 14 16 10.2–1.1	38.1N–.10	143.5E–.20	15	4.3b,4.3		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 17 26.4–1.8**	**36.5N–.30**	**143.4E–.20**	**35**	**4.0b**	**7**	**4-119**
IDC	III	11 14 17 20.8–2.3	36.56N	143.65E	0	4.3,4.2		¶17193909
ISCJB	III	11 14 17 25.5–1.9	36.7N–.30	143.3E–.20	33	4.0b,4.2		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 19 50.8–.88**	**37.1N–.20**	**143.9E–.10**	**10**	**4.4b**	**10**	**13-88**
ISCJB	III	11 14 19 48.8–.70	37.2N–.10	143.8E–.10	10	4.3b		¶16461334
IDC	III	11 14 19 49.2–.78	37.15N	143.92E	0	4.5,4.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=14.2km az=151.5.
IDC Error ellipse: s-maj=28.9km s-min=18.1km az=132.0.

ISC	**III**	**11 14 20 17.1–.59**	**37.58N–.06**	**143.29E–.06**	**29–3**	**5.0b**	**302**	**4-145**
ISCJB	III	11 14 20 12.5–1.7	37.50N–.04	143.28E–.03	11–10	5.0s,4.9b		¶17193910
IDC	III	11 14 20 13.3–.51	37.53N	143.24E	0	4.7,4.6		
BJI	III	11 14 20 16.8	37.90N	143.20E	25	5.5b,5.1		
NEIC	III	11 14 20 16.2–2.2	37.55N	143.22E	25–15	5.1b,5.1		
MOS	III	11 14 20 16.7–1.2	37.48N	143.23E	40	5.2b,5.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=164.6.
IDC Error ellipse: s-maj=13.6km s-min=11.9km az=137.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.0km az=150.0.
MOS Error ellipse: s-maj=7.7km s-min=5.6km az=110.1.

ISC	**III**	**11 14 20 38.5–.43**	**37.28N–.06**	**143.24E–.09**	**24**	**4.8b**	**63**	**4-145**
IDC	III	11 14 20 35.0–.47	37.39N	143.14E	0	5.0L,4.9		¶16476448
ISCJB	III	11 14 20 36.8–.38	37.31N–.06	143.19E–.08	24	4.8b,4.9		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 21 20.4–.55**	**37.11N–.09**	**142.16E–.10**	**19**	**4.9b**	**49**	**3-146**
IDC	III	11 14 21 16.9–.66	37.04N	141.94E	0	4.9,4.8		¶17193912
ISCJB	III	11 14 21 17.5–.27	37.03N–.05	142.00E–.07	19	4.8b,4.8		
NEIC	III	11 14 21 21.5–2.6	37.09N	142.11E	32–18	5.0b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=15.5km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.0km az=32.9.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.8km az=111.0.

ISC	**III**	**11 14 24 30.1–.94**	**37.7N–.20**	**143.6E–.10**	**35**	**4.0b**	**13**	**11-88**
IDC	III	11 14 24 24.9–.87	37.72N	143.61E	0	4.2,4.0		¶17193914
ISCJB	III	11 14 24 27.9–.72	37.7N–.10	143.5E–.10	33	4.0b,4.0		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 26 25.4–.81**	**39.1N–.10**	**143.22E–.07**	**16**	**4.3b**	**40**	**2-149**
IDC	III	11 14 26 20.6–.52	38.62N	143.26E	0	4.3,4.3		¶603145336
ISCJB	III	11 14 26 24.4–.68	39.25N–.10	143.29E–.09	16	4.2b,4.3		
JMA	III	11 14 26 27.8–.30	39.69N	143.44E	1	5.0,4.3		

ISC Event type fe.
IDC Error ellipse: s-maj=14.1km s-min=12.8km az=141.0.
ISCJB Event type fe. Error ellipse: s-maj=14.3km s-min=9.2km az=16.9.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**III**	**11 14 26 31.2–.39**	**37.38N–.05**	**142.44E–.04**	**21**	**5.3s,5.0b**	**239**	**1-146**
BJI	III	11 14 26 26.5	37.53N	142.79E	13	5.4b,5.3		¶602653054
ISCJB	III	11 14 26 30.0–.19	37.41N–.03	142.43E–.03	21	5.6s,5.0b		
MOS	III	11 14 26 31.5–1.2	37.39N	142.44E	33	5.3b,5.0b		
NEIC	III	11 14 26 33.9–.81	37.41N	142.38E	38–7	5.0b,5.0b		
JMA	III	11 14 26 53.6–.10	36.63N	141.04E	43–1	4.8,5.0b		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=152.3.
MOS Error ellipse: s-maj=9.7km s-min=7.6km az=98.7.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=4.7km az=130.0.
JMA Event type fe.

ISC	**III**	**11 14 27 40.4–.33**	**37.05N–.05**	**143.93E–.06**	**35**	**5.2b**	**358**	**5-153**
IDC	III	11 14 27 35.7–.40	37.09N	143.94E	0	5.0,4.9		¶16304996
ISCJB	III	11 14 27 39.0–.19	37.04N–.03	143.95E–.04	33	5.7s,5.1b		
MOS	III	11 14 27 39.6–1.1	37.18N	143.89E	33	5.5b,5.1b		
NEIC	III	11 14 27 40.5–.18	37.05N	143.96E	35	5.4b,5.1b		

ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=10.3km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=143.7.
MOS Error ellipse: s-maj=8.9km s-min=5.2km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=138.0. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.

ISC	**III**	**11 14 27 58.4–.40**	**37.08N–.06**	**143.99E–.07**	**35**	**5.2b**	**169**	**5-156**
IDC	III	11 14 27 53.6–.51	37.13N	144.01E	0	5.2,5.1		¶16476451
NEIC	III	11 14 27 57.0–2.5	37.11N	144.04E	21–17	5.2,5.1		
ISCJB	III	11 14 27 57.1–.30	37.05N–.05	144.08E–.06	33	5.2b,5.1		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**11 14 32 07.3–.68**	**39.4N–.10**	**143.6E–.10**	**11**	**4.5b**	**24**	**5-87**
IDC	III	11 14 32 05.8–.82	39.45N	143.41E	0	4.8L,4.6		¶16476456
ISCJB	III	11 14 32 05.5–.52	39.37N–.09	143.5E–.10	11	4.3b,4.6		
NEIC	III	11 14 32 10.6–.48	39.37N	143.46E	35	4.5b,4.6		

ISC Event type se.
IDC Error ellipse: s-maj=27.4km s-min=16.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=6.2km az=140.9.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=7.2km az=137.0.

ISC	**III**	**11 14 33 16.4–.95**	**37.7N–.20**	**144.2E–.10**	**35**	**4.4b**	**11**	**5-73**
IDC	III	11 14 33 11.3–1.1	37.73N	144.28E	0	4.6,4.4		¶17193918
ISCJB	III	11 14 33 14.1–.85	37.8N–.10	144.1E–.10	33	4.4b,4.4		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 36 04.4–.60**	**36.91N–.07**	**143.71E–.09**	**35**	**4.3b**	**39**	**4-153**
IDC	III	11 14 35 59.1–.57	36.95N	143.94E	0	4.4,4.3		¶16449474
ISCJB	III	11 14 36 02.4–.47	36.78N–.05	143.71E–.08	33	4.3b,4.3		
NEIC	III	11 14 36 04.3–.36	36.92N	143.84E	35	4.4b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=13.6km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.5km az=32.1.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=8.6km az=203.0.

ISC	**III**	**11 14 36 32.3–1.1**	**38.0N–.10**	**143.3E–.20**	**19**	**4.2b**	**12**	**4-83**
IDC	III	11 14 36 29.3–1.0	37.98N	143.37E	0	4.4,4.2		¶17193922
ISCJB	III	11 14 36 30.3–.87	38.0N–.10	143.3E–.30	19	4.1b,4.2		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 37 37.5–.51**	**38.64N–.06**	**144.29E–.06**	**29**	**4.6b**	**98**	**3-144**
IDC	III	11 14 37 33.1–.57	38.57N	144.24E	0	4.5,4.3		¶16425235
ISCJB	III	11 14 37 36.0–.30	38.63N–.04	144.24E–.03	29	4.4b,4.3		
NEIC	III	11 14 37 36.2–2.8	38.61N	144.27E	19–17	4.8b,4.3		
JMA	III	11 14 37 38.7–.30	38.91N	144.08E	30	5.1,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.2km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.2km az=158.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.9km az=146.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**III**	**11 14 38 27.4–.59**	**39.14N–.04**	**143.04E–.07**	**16**	**4.4b**	**46**	**2-88**
ISCJB	III	11 14 38 25.5–.40	39.09N–.03	143.09E–.05	16	4.4b		¶17193929
IDC	III	11 14 38 25.7–1.0	39.25N	142.98E	0	4.5,4.5L		
JMA	III	11 14 38 27.0–.20	39.21N	142.95E	10–3	5.0,4.5L		
NEIC	III	11 14 38 29.0–2.9	39.12N	143.00E	26–22	4.5b,4.5L		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.1km az=30.1.
IDC Error ellipse: s-maj=26.0km s-min=14.8km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.7km az=148.0.

ISC	**III**	**11 14 41 11.4–.97**	**37.0N–.10**	**142.18E–.07**	**19**	**3.8b**	**16**	**1-146**
ISCJB	III	11 14 41 09.5–.82	36.9N–.10	142.30E–.07	19	3.8b		¶16476466
JMA	III	11 14 41 10.6–.40	36.91N	142.24E	22	4.0		
IDC	III	11 14 41 11.3–.76	37.62N	142.06E	0	4.1,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=8.2km az=5.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=23.2km s-min=19.6km az=130.0.

ISC	**III**	**11 14 41 55.3–.57**	**37.43N–.06**	**142.77E–.09**	**24**	**4.3b**	**51**	**4-146**
ISCJB	III	11 14 41 53.4–.43	37.44N–.04	142.75E–.07	24	4.3b		¶17193930
NEIC	III	11 14 41 54.3–2.6	37.46N	142.85E	17–16	4.4b		
IDC	III	11 14 41 55.9–.84	37.43N	142.86E	28–4	4.3,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.4km az=28.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.5km az=115.0.
IDC Error ellipse: s-maj=15.8km s-min=13.8km az=167.0.

ISC	**III**	**11 14 43 45.3–1.0**	**37.0N–.20**	**142.4E–.10**	**9**	**4.0b**	**9**	**3-63**
ISCJB	III	11 14 43 43.3–.79	37.0N–.10	142.5E–.10	9	4.1b		¶16461235
IDC	III	11 14 43 44.1–.99	36.98N	142.48E	0	4.2,4.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=14.7km az=149.7.
IDC Error ellipse: s-maj=26.2km s-min=20.7km az=139.0.

ISC	**III**	**11 14 45 51.2–.85**	**37.3N–.20**	**142.4E–.10**	**21**	**4.4b**	**13**	**1-146**
IDC	III	11 14 45 47.9–.86	37.29N	142.40E	0	4.5,4.4		¶17193940
ISCJB	III	11 14 45 49.2–.70	37.2N–.10	142.5E–.10	21	4.3b,4.4		
JMA	III	11 14 46 09.2–.20	38.37N	141.67E	49–2	3.6,4.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=22.5km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=22.8km s-min=11.1km az=33.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**11 14 48 49.3–1.0**	**37.1N–.10**	**143.9E–.10**	**35**	**3.9b**	**11**	**5-88**
IDC	III	11 14 48 44.1–1.0	37.01N	144.10E	0	4.2,4.1		¶16476480
ISCJB	III	11 14 48 47.1–.86	37.0N–.10	143.9E–.10	33	4.1b,4.1		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**11 14 49 11.8–.76**	**38.03N–.06**	**144.38E–.06**	**24–4**	**4.9b**	**272**	**4-149**
IDC	III	11 14 49 08.6–.41	38.11N	144.42E	0	4.6,4.6		¶17193944
NEIC	III	11 14 49 09.5–2.5	38.12N	144.29E	6–15	5.0b,4.6		
ISCJB	III	11 14 49 11.7–.19	38.06N–.04	144.25E–.03	32	4.8b,4.6		
MOS	III	11 14 49 12.4–1.4	38.19N	144.26E	33	5.2b,4.6		

ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.0km az=126.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.4km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.4km az=156.1.

MOS Error ellipse: s-maj=7.8km s-min=5.6km az=95.5.
ISC III 11 14 51 36.2–.96 37.1N–.20 142.7E–.10 9 4.1b 13 4-89
ISCJB III 11 14 51 34.3–.86 37.1N–.10 142.8E–.10 9 4.1b **¶17193946**
IDC III 11 14 51 34.9–1.1 37.12N 142.73E 0 4.3,4.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=13.9km az=154.7.
IDC Error ellipse: s-maj=30.6km s-min=22.9km az=151.0.
ISC III 11 14 52 26.7–.91 36.5N–.20 142.3E–.10 15 4.2b 12 11-90
IDC III 11 14 52 24.3–.92 36.47N 142.33E 0 4.3,4.1 **¶17193950**
ISCJB III 11 14 52 24.7–.73 36.5N–.10 142.3E–.20 15 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 14 53 48.4–.92 38.5N–.10 144.9E–.10 43 4.2b 16 11-118
IDC III 11 14 53 42.1–.96 38.43N 145.08E 0 4.4,4.2 **¶16476489**
ISCJB III 11 14 53 46.4–.73 38.5N–.10 144.9E–.20 43 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 14 53 59.7–.75 37.39N–.10 142.7E–.10 25 4.5b 19 10-89
IDC III 11 14 53 57.0–.95 37.55N 142.86E 0 4.6,4.5 **¶17193951**
ISCJB III 11 14 53 57.9–.54 37.36N–.07 142.7E–.10 25 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 15 19 22.8–.79 37.5N–.10 144.1E–.10 35 4.7b 23 5-88
IDC III 11 15 19 17.5–.71 37.54N 144.09E 0 5.7L,4.8 **¶16476496**
ISCJB III 11 15 19 20.5–.47 37.48N–.08 144.1E–.10 33 4.7b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 15 26 00.6–.69 37.32N–.04 142.19E–.04 24–4 5.0b 242 1-154
ISCJB III 11 15 25 57.9–1.0 37.27N–.03 142.31E–.04 15–7 5.0b **¶602652944**
IDC III 11 15 25 57.5–.47 37.35N 142.35E 0 5.0,4.9
NEIC III 11 15 26 00.2–1.8 37.32N 142.28E 20–12 5.2b,4.9
MOS III 11 15 26 00.5–1.3 37.42N 142.26E 31 5.3b,4.9
JMA III 11 15 26 07.6–.20 37.32N 141.56E 36–2 4.9,4.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.4km az=42.7.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=136.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=137.0. Recorded [2 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
MOS Error ellipse: s-maj=8.3km s-min=6.0km az=86.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 15 30 44.8–.62 37.61N–.10 144.56E–.08 35 4.5b 65 5-88
IDC III 11 15 30 40.0–.65 37.66N 144.59E 0 4.4,4.3 **¶16476498**
NEIC III 11 15 30 42.2–3.8 37.63N 144.51E 18–24 4.8b,4.3
ISCJB III 11 15 30 42.7–.31 37.60N–.06 144.48E–.05 33 4.4b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 15 32 32.6–.49 37.19N–.04 142.25E–.04 23–3 5.1b 613 1-151
IDC III 11 15 32 29.2–.38 37.21N 142.24E 0 5.2s,5.2 **¶600539768**
ISCJB III 11 15 32 30.9–.82 37.18N–.02 142.26E–.02 20–5 5.2s,5.1b
JMA III 11 15 32 31.6–.50 37.31N 142.17E 14–5 5.3,5.1b
BJI III 11 15 32 31.0 37.09N 142.06E 19 5.6,5.6b
MOS III 11 15 32 31.9–1.0 37.24N 142.27E 29 5.3b,5.6b
NEIC III 11 15 32 34.0–1.6 37.18N 142.25E 33–11 5.2b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=9.2km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=159.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=111.7.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.4km az=132.0. Recorded [2 JMA] in Chiba, Fukushima, Ibaraki, Miyagi and Tochigi.
IDC III 11 15 34 35.5–3.7 37.36N 142.66E 0 4.6,4.5
¶17193963
IDC Error ellipse: s-maj=143.9km s-min=32.5km az=68.0.
ISC III 11 15 39 49.6–1.4 38.8N–.20 144.1E–.10 23 4.6b 15 13-87
IDC III 11 15 39 45.3–2.1 38.65N 144.08E 0 4.7,4.5 **¶17193966**
ISCJB III 11 15 39 47.9–1.2 38.8N–.20 144.0E–.10 23 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 15 40 55.3–.54 38.46N–.08 143.67E–.09 14 4.5b 37 5-118
ISCJB III 11 15 40 53.3–.39 38.40N–.05 143.65E–.07 14 4.5b **¶16305006**
IDC III 11 15 40 53.1–.61 38.48N 143.66E 0 4.6,4.5
NEIC III 11 15 40 58.2–.28 38.44N 143.61E 35 4.3b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=7.0km az=35.7.
IDC Error ellipse: s-maj=16.8km s-min=13.2km az=137.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=132.0.
ISC III 11 15 44 18.0–.96 38.0N–.20 144.0E–.10 35 4.4b 13 11-88
IDC III 11 15 44 12.4–.95 37.93N 143.91E 0 4.6,4.4 **¶17193967**
ISCJB III 11 15 44 15.7–.84 37.9N–.10 144.1E–.10 33 4.4b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 15 48 45.2–.44 36.24N–.06 142.59E–.07 18 4.7b 135 2-146
IDC III 11 15 48 42.9–.53 36.26N 142.61E 0 4.6,4.5 **¶16453113**
ISCJB III 11 15 48 44.2–.24 36.23N–.04 142.50E–.04 18 4.7b,4.5
NEIC III 11 15 48 45.3–3.0 36.23N 142.56E 15–18 4.9b,4.5
MOS III 11 15 48 46.8–1.3 36.27N 142.48E 38 5.0b,4.5
JMA III 11 15 48 52.8–.10 37.48N 141.29E 27–1 4.1,4.5
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.0km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.3km az=145.9.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.8km az=121.0.
MOS Error ellipse: s-maj=9.9km s-min=7.4km az=122.6.
JMA Event type fe.
ISC III 11 15 50 56.0–.75 37.42N–.04 142.42E–.04 11–4 4.9b 224 1-156
IDC III 11 15 50 54.8–.44 37.47N 142.40E 0 4.6,4.6 **¶16476506**
ISCJB III 11 15 50 57.2–1.3 37.45N–.03 142.38E–.03 27–9 4.8b,4.6
MOS III 11 15 50 57.7–1.1 37.52N 142.45E 31 5.1b,4.6
NEIC III 11 15 50 57.1–2.1 37.50N 142.37E 14–13 5.0b,4.6
JMA III 11 15 50 57.2–.30 37.53N 142.27E 14–4 5.0,4.6
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=152.9.
MOS Error ellipse: s-maj=8.6km s-min=5.5km az=116.1.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=122.0. Recorded [2 JMA] in Fukushima and Miyagi.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 15 54 05.4–2.1 37.9N–.30 143.2E–.20 18 4.1b 12 11-88
IDC III 11 15 54 08.6–7.8 37.85N 143.01E 48–60 4.2,4.1 **¶17193972**
ISC Event type ke.
IDC Error ellipse: s-maj=69.4km s-min=38.0km az=172.0.
ISC III 11 15 54 58.3–.99 37.2N–.10 142.2E–.10 35 4.2b 16 1-146
JMA III 11 15 54 54.1–.80 37.17N 142.42E 37 4.6 **¶16476510**
ISCJB III 11 15 54 56.6–.58 37.1N–.10 142.27E–.07 35 4.2b
IDC III 11 15 55 01.4–3.2 37.10N 142.13E 61–30 4.3,4.2
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=14.6km s-min=7.4km az=171.9.
IDC Error ellipse: s-maj=21.2km s-min=17.8km az=100.0.
ISC III 11 15 56 55.5–.50 36.32N–.06 142.01E–.07 19 4.5b 47 3-147
IDC III 11 15 56 52.7–.58 36.41N 142.14E 0 4.4,4.3 **¶16453107**
ISCJB III 11 15 56 53.1–.36 36.31N–.04 142.01E–.06 19 4.4b,4.3
NEIC III 11 15 56 57.5–.37 36.34N 141.99E 35 4.9b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.0km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.6km az=13.9.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.9km az=106.0.
ISC III 11 16 00 36.4–.52 38.45N–.08 143.73E–.07 15 4.6b 103 4-154
ISCJB III 11 16 00 34.6–.28 38.43N–.04 143.70E–.05 15 4.5b **¶16442244**
NEIC III 11 16 00 37.3–1.5 38.47N 143.72E 21–10 4.7b
IDC III 11 16 00 39.5–2.5 38.44N 143.69E 38–21 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=141.6.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.3km az=125.0.
IDC Error ellipse: s-maj=13.5km s-min=11.2km az=115.0.
ISC III 11 16 01 59.7–.65 36.53N–.05 144.11E–.06 27–3 5.1b 298 3-145
IDC III 11 16 01 55.1–.57 36.39N 144.24E 0 4.8,4.8s **¶16313885**
MOS III 11 16 01 59.8–1.8 36.62N 143.93E 33 5.6b,4.8s
ISCJB III 11 16 01 60.0–.24 36.56N–.04 144.14E–.04 35 5.0b,4.8s
NEIC III 11 16 02 01.3–.32 36.58N 144.07E 35 5.4b,4.8s
JMA III 11 16 02 03.5–.60 36.52N 143.94E 69 5.1,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=15.5km s-min=11.5km az=154.0.
MOS Error ellipse: s-maj=8.6km s-min=5.1km az=113.5.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.2km az=152.4.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=155.0.
JMA Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.
ISC III 11 16 04 19.1–.66 38.6N–.10 144.30E–.08 29 4.6b 31 3-118
ISCJB III 11 16 04 17.1–.51 38.59N–.08 144.27E–.08 29 4.6b **¶16476518**
IDC III 11 16 04 20.6–2.7 38.62N 144.30E 41–24 4.6,4.5
JMA III 11 16 04 43.0–.30 39.04N 142.38E 33–4 4.4,4.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=11.8km s-min=9.0km az=156.8.
IDC Error ellipse: s-maj=16.0km s-min=13.7km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 11 16 04 51.4–.85 37.3N–.10 144.4E–.10 35 5.1b 31 5-143
ISCJB III 11 16 04 48.9–.77 37.28N–.10 144.4E–.10 33 5.2b **¶17193980**
IDC III 11 16 04 51.1–7.0 37.32N 144.33E 33–54 5.1,4.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=9.1km az=137.9.
IDC Error ellipse: s-maj=28.9km s-min=20.0km az=92.0.
ISC III 11 16 04 52.4–.41 39.34N–.05 144.43E–.05 27–2 5.4s,5.2b 698 3-158
BJI III 11 16 04 51.5 39.20N 144.30E 26 5.9b,5.6s **¶17193981**
MOS III 11 16 04 52.1–1.2 39.36N 144.48E 33 5.3b,5.6s
ISCJB III 11 16 04 52.1–.16 39.34N–.04 144.34E–.03 32 5.4s,5.1b
NEIC III 11 16 04 53.3–.18 39.26N 144.41E 35 5.3b,5.1b
IDC III 11 16 04 53.3–5.2 39.22N 144.42E 33–38 5.0,4.9
ISC Event type se.
MOS Error ellipse: s-maj=8.9km s-min=5.4km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=173.6.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=150.0. Recorded [3 JMA] in Fukushima and Ibaraki.
IDC Error ellipse: s-maj=14.2km s-min=11.6km az=128.0.
ISC III 11 16 07 12.6–1.1 37.9N–.10 142.64E–.08 14 4.5b 15 2-63
ISCJB III 11 16 07 11.0–.89 38.0N–.10 142.76E–.07 14 4.5b **¶602653556**
JMA III 11 16 07 13.3–.40 38.10N 142.58E 8 4.9
IDC III 11 16 07 19.3–4.1 37.95N 142.52E 68–37 4.5,4.3
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=17.6km s-min=8.2km az=172.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=19.1km az=150.0.
ISC III 11 16 08 32.8–.65 37.34N–.08 144.17E–.08 35 4.5b 48 5-88
IDC III 11 16 08 27.4–.70 37.33N 144.31E 0 4.6,4.4 **¶16442254**
ISCJB III 11 16 08 30.5–.38 37.31N–.05 144.12E–.06 33 4.4b,4.4
NEIC III 11 16 08 32.2–.40 37.26N 144.21E 35 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=16.6km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.4km az=150.1.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.0km az=135.0.
ISC III 11 16 11 25.9–.54 39.42N–.03 143.66E–.04 10–3 5.5s,5.5b 1042 3-154
BJI III 11 16 11 23.0 39.57N 143.66E 11 6.0b,5.7s **¶602653545**
JMA III 11 16 11 23.8–.40 39.57N 143.60E 2–4 5.8,5.7s
IDC III 11 16 11 24.8–.37 39.50N 143.56E 0 5.2s,5.2
ISCJB III 11 16 11 26.1–.09 39.48N–.02 143.51E–.02 16 5.6s,5.3b
MOS III 11 16 11 28.5–1.3 39.59N 143.50E 31 5.8s,5.7b
NEIC III 11 16 11 30.0–.12 39.46N 143.47E 35 5.5b,5.7b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.9km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=152.5.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=93.7.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=144.0. Recorded [2 JMA] in Iwate, Miyagi and Yamagata.
ISC III 11 16 16 16.2–.89 38.8N–.10 144.8E–.10 19 3.9b 14 6-87
ISCJB III 11 16 16 14.6–.82 38.9N–.10 144.7E–.10 19 4.0b **¶17193984**
IDC III 11 16 16 18.0–6.8 38.74N 144.76E 33–52 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=10.8km az=153.3.
IDC Error ellipse: s-maj=27.9km s-min=22.9km az=121.0.
IDC III 11 16 16 27.0–1.0 38.74N 143.41E 0 4.3,4.0
¶17193987
IDC Error ellipse: s-maj=29.8km s-min=24.9km az=1.0.
ISC III 11 16 17 04.3–.81 39.5N–.10 144.7E–.10 23 4.0b 9 11-87
IDC III 11 16 17 00.8–.95 39.41N 144.66E 0 4.3,4.0 **¶16476525**
ISCJB III 11 16 17 02.4–.71 39.4N–.10 144.6E–.20 23 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 16 18 00.6–.56 37.60N–.09 144.16E–.08 35 4.7b 84 5-118
ISCJB III 11 16 17 58.7–.34 37.60N–.05 144.14E–.06 33 4.5b **¶17193988**
NEIC III 11 16 18 00.6–2.5 37.64N 144.16E 34–17 4.8b
IDC III 11 16 18 02.6–2.7 37.71N 144.14E 43–24 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.7km az=150.1.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.6km az=136.0.
IDC Error ellipse: s-maj=15.1km s-min=13.0km az=124.0.
ISC III 11 16 25 09.6–.44 37.08N–.07 143.57E–.06 35 4.7b 104 4-153
IDC III 11 16 25 04.5–.43 37.05N 143.66E 0 4.6,4.5 **¶602653520**
NEIC III 11 16 25 07.7–2.0 37.03N 143.60E 22–14 4.8b,4.5
ISCJB III 11 16 25 07.5–.26 37.00N–.05 143.52E–.04 33 4.6b,4.5
ISC Event type ke.
NEIC Event type ke.
ISCJB Event type ke.
IDC III 11 16 26 48.3–14 35.84N 143.85E 0 4.6,4.3
¶17193993
IDC Error ellipse: s-maj=344.2km s-min=44.7km az=37.0.
ISC III 11 16 26 54.8–.59 38.07N–.08 144.61E–.09 35 4.5b 62 4-87
ISCJB III 11 16 26 52.9–.35 38.02N–.05 144.53E–.06 33 4.4b **¶16442257**
NEIC III 11 16 26 54.9–.97 38.02N 144.59E 36–8 4.7b
IDC III 11 16 26 54.5–5.3 37.98N 144.62E 32–39 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.3km az=144.9.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.8km az=133.0.
IDC Error ellipse: s-maj=18.0km s-min=14.3km az=144.0.
ISC III 11 16 32 58.6–.56 37.01N–.09 143.90E–.08 10 4.6b 62 5-145
IDC III 11 16 32 57.0–.55 37.01N 143.97E 0 4.5,4.3 **¶16442260**
ISCJB III 11 16 32 56.4–.36 36.92N–.05 143.90E–.06 10 4.4b,4.3
NEIC III 11 16 32 59.3–4.0 36.97N 143.98E 18–24 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=13.5km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=6.5km az=165.7.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=85.0.
ISC III 11 16 34 17.2–.35 39.59N–.05 143.56E–.04 11 5.0b 640 2-154
ISCJB III 11 16 34 17.0–.15 39.77N–.03 143.42E–.02 11 4.9b,4.8s **¶16305013**
BJI III 11 16 34 17.6 39.52N 143.54E 31 5.6b,5.3s
JMA III 11 16 34 17.2–.50 39.36N 143.47E 13 4.9,5.3s
MOS III 11 16 34 19.1–1.0 39.74N 143.45E 29 5.2b,5.3s
NEIC III 11 16 34 21.0–.20 39.62N 143.38E 35 5.0b,5.3s
IDC III 11 16 34 23.2–2.3 39.57N 143.40E 52–20 4.8,4.7
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.5km az=162.4.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.6km az=96.5.

NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=161.0.
IDC Error ellipse: s-maj=13.0km s-min=9.9km az=147.0.
ISC III 11 16 36 03.5–.99 37.4N–.20 143.6E–.20 35 4.2b 8 43-88
IDC III 11 16 35 58.2–.90 37.43N 143.63E 0 4.5,4.2 **¶17193994**
ISCJB III 11 16 36 01.3–.81 37.4N–.20 143.5E–.30 33 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 16 36 56.8–.56 36.52N–.09 142.33E–.07 15 4.6b 66 3-151
IDC III 11 16 36 54.9–.61 36.56N 142.28E 0 4.5,4.4 **¶16442261**
ISCJB III 11 16 36 55.0–.34 36.55N–.05 142.35E–.05 15 4.5b,4.4
NEIC III 11 16 36 59.6–.30 36.56N 142.30E 35 5.0b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=13.0km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.0km az=158.5.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.1km az=149.0.
ISC III 11 16 38 57.7–3.3 36.2N–.60 142.2E–.10 31 4.3b 16 1-84
JMA III 11 16 38 51.0–.20 36.11N 141.28E 27–4 3.4 **¶602653470**
IDC III 11 16 38 58.7–5.6 36.12N 142.21E 42–34 4.2,4.1
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=89.5km s-min=25.8km az=165.0.
ISC III 11 16 40 44.1–.74 36.23N–.08 142.17E–.08 23 4.1b 22 3-119
IDC III 11 16 40 40.2–.99 36.23N 142.21E 0 4.3,4.1 **¶602653461**
ISCJB III 11 16 40 42.2–.66 36.19N–.06 142.2E–.10 23 4.1b,4.1
NEIC III 11 16 40 45.7–.78 36.16N 142.09E 35 4.1b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=24.9km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.4km az=16.9.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=14.0km az=74.0.
ISC III 11 16 45 04.8–.55 37.71N–.07 144.39E–.07 35 4.4b 57 4-95
IDC III 11 16 45 00.5–.75 37.77N 144.38E 0 4.4,4.3 **¶16476160**
ISCJB III 11 16 45 03.2–.37 37.76N–.05 144.28E–.05 33 4.5b,4.3
NEIC III 11 16 45 04.7–.39 37.69N 144.29E 35 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=14.1km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.1km az=150.2.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.4km az=150.0.
ISC III 11 16 47 20.3–.53 37.70N–.08 143.85E–.06 35 4.7b 102 3-149
IDC III 11 16 47 14.8–.51 37.56N 143.98E 0 4.5,4.4 **¶602652903**
JMA III 11 16 47 18.1–.50 37.82N 143.81E 42 4.9,4.4
ISCJB III 11 16 47 18.1–.31 37.62N–.05 143.81E–.03 33 4.5b,4.4
NEIC III 11 16 47 20.1–.28 37.61N 143.88E 35 4.8b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=14.5km s-min=12.1km az=139.0.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.6km az=164.9.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.6km az=152.0.
ISC III 11 16 53 39.7–.91 38.86N–.09 144.8E–.10 35 4.6b 42 3-97
IDC III 11 16 53 34.3–.89 38.91N 144.97E 0 4.6,4.4 **¶16445706**
ISCJB III 11 16 53 38.0–.62 38.83N–.06 144.7E–.10 33 4.5b,4.4
NEIC III 11 16 53 40.0–.54 38.87N 144.74E 35 4.9b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=19.5km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=7.9km az=18.8.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.3km az=105.0.
ISC III 11 16 55 51.3–.59 37.82N–.05 143.26E–.05 24–3 5.0b,4.9s 569 2-150
IDC III 11 16 55 48.0–.45 37.78N 143.26E 0 4.8,4.8 **¶602652885**
ISCJB III 11 16 55 48.7–1.3 37.83N–.03 143.19E–.03 12–7 4.9b,4.9s
BJI III 11 16 55 49.3 37.92N 143.26E 26 5.4b,5.1
JMA III 11 16 55 50.4–.70 37.76N 143.21E 30 5.1,5.1
MOS III 11 16 55 50.8–.94 38.01N 143.16E 20 5.2b,5.1
NEIC III 11 16 55 53.5–.16 37.82N 143.15E 35 5.0b,5.1
ISC Event type ke.
IDC Error ellipse: s-maj=12.4km s-min=9.9km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=2.9km az=157.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=6.2km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=101.1.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=2.9km az=158.0.
ISC III 11 16 59 56.1–.66 38.1N–.10 144.36E–.07 35 4.5b 60 3-90
IDC III 11 16 59 51.2–.67 38.08N 144.39E 0 4.4,4.2 **¶602652879**
ISCJB III 11 16 59 53.7–.38 38.10N–.06 144.34E–.05 33 4.5b,4.2
NEIC III 11 16 59 56.0–.42 38.17N 144.34E 35 5.0b,4.2
JMA III 11 17 00 22.2–.40 37.29N 142.38E 10 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=18.4km s-min=14.2km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.1km az=155.8.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.9km az=148.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 11 17 01 28.8–2.0 37.1N–.30 143.8E–.20 35 4.0b 13 11-89
IDC III 11 17 01 22.2–2.2 36.88N 143.87E 0 4.3,4.1 **¶602652865**
ISC Event type ke.
IDC Error ellipse: s-maj=60.9km s-min=25.8km az=5.0.
ISC III 11 17 03 54.5–.73 36.55N–.09 142.09E–.06 19 3.9b 32 1-78
IDC III 11 17 03 52.0–.76 36.66N 142.02E 0 4.0,3.9L **¶602652854**
ISCJB III 11 17 03 52.9–.50 36.60N–.09 142.08E–.05 19 3.9b,3.9L
NEIC III 11 17 04 01.1–2.0 36.70N 141.86E 69–18 4.3b,3.9L
JMA III 11 17 04 06.4–.10 36.72N 141.51E 16–3 3.7,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=20.8km s-min=18.6km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.1km az=175.6.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=14.7km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 17 05 07.4–.51 36.60N–.05 142.09E–.06 19 4.3b 82 1-146
IDC III 11 17 05 05.0–.58 36.64N 142.05E 0 4.3,4.2 **¶16404892**
ISCJB III 11 17 05 05.4–.34 36.57N–.03 142.14E–.04 19 4.2b,4.2
NEIC III 11 17 05 05.8–3.6 36.64N 142.04E 7–22 4.2b,4.2
JMA III 11 17 05 07.9–.20 36.71N 142.10E 31 4.4,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=12.6km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.8km az=30.4.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.7km az=73.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 11 17 06 30.2–.90 37.59N 142.84E 0 4.0,3.8
¶17194004
IDC Error ellipse: s-maj=28.5km s-min=21.9km az=82.0.
ISC III 11 17 08 44.6–.73 36.51N–.08 143.6E–.10 35 4.1b 21 5-89
NEIC III 11 17 08 38.5–.77 35.99N 143.65E 10 4.3b **¶16442218**
IDC III 11 17 08 39.5–.81 36.56N 143.71E 0 4.2,4.0
ISCJB III 11 17 08 42.6–.55 36.47N–.06 143.48E–.09 33 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 17 10 01.8–2.1 36.7N–.20 142.2E–.10 35 3.9b 9 1-78
IDC III 11 17 09 41.5–11 34.88N 143.51E 0 4.1,4.0 **¶602652824**
JMA III 11 17 10 00.2–.20 36.71N 142.07E 14 3.9,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=394.2km s-min=34.4km az=6.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 17 11 17.2–.59 38.51N–.08 144.25E–.08 35 4.6b 80 4-118
IDC III 11 17 11 12.3–.67 38.45N 144.34E 0 4.3,4.1 **¶16404897**
NEIC III 11 17 11 14.9–.63 38.50N 144.30E 18–3 5.0b,4.1
ISCJB III 11 17 11 15.6–.31 38.47N–.05 144.19E–.05 35 4.5b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 17 11 37.5–.54 38.41N–.07 143.01E–.07 23 4.6b 73 2-145
IDC III 11 17 11 33.9–.53 38.39N 143.04E 0 4.6,4.5 **¶602652809**
ISCJB III 11 17 11 35.4–.34 38.38N–.05 143.08E–.05 23 4.6b,4.5
JMA III 11 17 11 37.3–.20 38.47N 142.96E 19–5 4.6,4.5
NEIC III 11 17 11 37.8–2.1 38.39N 143.04E 27–15 4.6,4.5
ISC Event type ke.

IDC Error ellipse: s-maj=15.6km s-min=13.0km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=4.8km az=145.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.4km az=119.0.
ISC III 11 17 12 36.2–2.6 37.50N–.06 144.16E–.05 2–15 5.0b 468 5-153
IDC III 11 17 12 36.1–.39 37.52N 144.16E 0 4.9,4.8 **¶16308447**
ISCJB III 11 17 12 36.4–.16 37.52N–.03 144.09E–.03 10 4.9b,4.8
BJI III 11 17 12 37.3 37.77N 144.07E 14 5.5b,5.4s
NEIC III 11 17 12 37.5–.13 37.47N 144.09E 10 5.0b,5.4s
MOS III 11 17 12 39.9–.88 37.59N 144.07E 33 5.2b,5.4s
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=10.2km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.7km az=163.4.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.5km az=153.0.
MOS Error ellipse: s-maj=6.9km s-min=4.9km az=104.0.
ISC III 11 17 16 60.0–.28 37.12N–.04 144.15E–.04 35 5.7s,5.4b 664 5-159
IDC III 11 17 16 54.4–.39 36.94N 144.26E 0 5.1,5.1s **¶16305064**
NEIC III 11 17 16 56.2–1.7 37.00N 144.16E 9–10 5.6s,5.5b
ISCJB III 11 17 16 58.7–.13 37.08N–.03 144.11E–.02 33 5.7s,5.3b
MOS III 11 17 16 59.5–.98 37.27N 144.08E 34 5.6b,5.6s
BJI III 11 17 17 00.8 37.27N 143.63E 25 6.1s,5.8
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=108.0.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.2km az=161.6.
MOS Error ellipse: s-maj=6.6km s-min=4.6km az=104.3.
ISC III 11 17 20 52.1–.75 37.8N–.10 143.46E–.09 19 4.3b 25 4-88
IDC III 11 17 20 49.0–.67 37.82N 143.61E 0 4.4,4.2 **¶16403895**
ISCJB III 11 17 20 50.4–.52 37.70N–.08 143.39E–.08 19 4.3b,4.2
NEIC III 11 17 20 54.3–.63 37.74N 143.57E 35 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=17.5km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=9.0km az=165.2.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=13.9km az=165.0.
ISC III 11 17 22 53.1–.60 36.56N–.09 142.41E–.10 15 4.5b 35 3-146
IDC III 11 17 22 51.1–.81 36.57N 142.42E 0 4.4,4.3L **¶16425314**
ISCJB III 11 17 22 51.2–.41 36.52N–.06 142.51E–.09 15 4.5b,4.3L
NEIC III 11 17 22 56.0–.31 36.57N 142.43E 35 5.1b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=21.0km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.9km az=21.2.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.2km az=118.0.
ISC III 11 17 23 55.9–.99 37.5N–.20 142.5E–.10 21 4.4b 15 10-89
IDC III 11 17 23 52.5–1.0 37.45N 142.48E 0 4.4,4.3 **¶17194008**
ISCJB III 11 17 23 54.4–.77 37.5N–.10 142.4E–.10 21 4.3b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 17 32 12.5–.71 37.08N–.04 144.68E–.04 24–4 5.3b 897 3-152
IDC III 11 17 32 08.8–.42 37.00N 144.72E 0 5.2,5.1 **¶16310798**
BJI III 11 17 32 11.8 37.44N 144.60E 16 5.7b,5.5s
NEIC III 11 17 32 12.2–1.6 37.06N 144.63E 19–9 5.4b,5.5s
MOS III 11 17 32 12.1–.79 37.20N 144.63E 26 6.2s,5.5b
ISCJB III 11 17 32 12.8–.13 37.13N–.03 144.60E–.02 33 5.9s,5.2b
JMA III 11 17 32 14.4–.30 37.07N 144.39E 43 5.8,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=10.1km az=137.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=147.0.
MOS Error ellipse: s-maj=6.4km s-min=4.3km az=106.7.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=1.8km az=172.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 11 17 34 18.0–.74 37.3N–.10 142.64E–.07 21 4.8b 38 1-89
IDC III 11 17 34 14.3–.88 37.39N 142.86E 0 4.6,4.5 **¶16476547**
ISCJB III 11 17 34 15.9–.45 37.33N–.06 142.73E–.05 21 4.7b,4.5
JMA III 11 17 34 16.3–.40 37.43N 142.58E 8 4.7,4.5
NEIC III 11 17 34 20.8–1.8 37.33N 142.71E 45–15 5.1b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=19.3km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.9km az=3.7.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=8.3km az=79.0.
ISC III 11 17 35 14.0–.49 36.79N–.07 142.75E–.09 9 4.7b 66 4-149
ISCJB III 11 17 35 12.5–.29 36.75N–.05 142.65E–.06 9 5.3s,4.6b **¶17194013**
IDC III 11 17 35 12.5–.55 36.79N 142.67E 0 5.3s,5.3
NEIC III 11 17 35 17.9–.28 36.82N 142.64E 35 4.9b,5.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.8km az=138.1.
IDC Error ellipse: s-maj=15.7km s-min=12.9km az=117.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.5km az=118.0.
ISC III 11 17 37 28.5–.53 36.50N–.05 142.03E–.06 19 4.3b 53 1-147
IDC III 11 17 37 25.7–.62 36.58N 142.24E 0 4.4,4.2 **¶602652767**
ISCJB III 11 17 37 26.9–.36 36.53N–.04 142.09E–.04 19 4.4b,4.2
NEIC III 11 17 37 30.0–.48 36.62N 142.32E 35 4.8b,4.2
JMA III 11 17 37 32.4–.20 36.53N 141.70E 57–5 4.2,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=14.7km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=174.8.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.8km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 17 37 59.0–.85 39.9N–.10 143.3E–.10 6 4.4b 23 2-72
ISCJB III 11 17 37 56.3–.74 39.7N–.10 143.4E–.10 6 4.5b **¶16442219**
IDC III 11 17 37 56.6–4.1 39.56N 143.33E 0 4.5,4.3
NEIC III 11 17 38 04.0–2.6 39.74N 143.42E 51–24 5.2b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=9.2km az=140.6.
IDC Error ellipse: s-maj=110.9km s-min=22.5km az=177.0.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=15.0km az=137.0.
ISC III 11 17 38 24.3–.48 36.44N–.06 142.51E–.06 15 4.6b 80 2-146
NEIC III 11 17 38 16.4–.74 35.00N 143.45E 35 4.9b **¶16476549**
ISCJB III 11 17 38 22.6–.37 36.45N–.05 142.56E–.05 15 4.5b
IDC III 11 17 38 22.4–.56 36.50N 142.53E 0 4.5,4.4
JMA III 11 17 38 26.0–.20 36.43N 142.50E 45 4.4,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=13.9km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.2km az=150.8.
IDC Error ellipse: s-maj=15.0km s-min=12.7km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 17 41 23.8–.66 37.40N–.09 142.81E–.09 24 4.4b 40 4-89
IDC III 11 17 41 20.4–.73 37.47N 142.72E 0 4.5,4.3 **¶16410962**
ISCJB III 11 17 41 21.9–.52 37.37N–.06 142.70E–.09 24 4.3b,4.3
NEIC III 11 17 41 22.4–6.7 37.51N 142.74E 13–41 4.9b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=16.1km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.8km az=32.8.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=13.3km az=88.0.
ISC III 11 17 43 46.4–.73 36.7N–.10 144.14E–.10 35 4.0b 34 5-89
IDC III 11 17 43 41.4–.72 36.78N 144.18E 0 4.1,3.9 **¶602652752**
NEIC III 11 17 43 44.2–5.4 36.72N 144.18E 19–33 4.7b,3.9
ISCJB III 11 17 43 44.4–.48 36.69N–.08 144.06E–.07 33 4.0b,3.9
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 11 17 46 23.5–.50 37.82N–.07 142.75E–.06 18 4.3b 77 2-89
IDC III 11 17 46 21.1–.80 37.92N 142.66E 0 4.3L,4.2 **¶16442240**
ISCJB III 11 17 46 21.5–.34 37.74N–.04 142.80E–.04 18 4.2b,4.2
NEIC III 11 17 46 25.9–1.0 37.77N 142.75E 37–10 4.6b,4.2
JMA III 11 17 46 31.7–.20 37.42N 141.92E 19–3 4.5,4.2
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=14.9km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=162.3.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=8.8km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 11 17 47 15.3–.48 37.31N–.06 143.63E–.07 35 4.4b 67 5-150
IDC III 11 17 47 11.0–.52 37.51N 143.76E 0 4.4,4.3 **¶17194015**
ISCJB III 11 17 47 14.0–.31 37.36N–.05 143.62E–.06 33 4.5b,4.3
NEIC III 11 17 47 16.4–.30 37.55N 143.59E 35 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.3km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.7km az=39.9.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.3km az=136.0.
ISC III 11 17 50 01.4–.41 37.62N–.06 144.94E–.05 35 4.8b 299 3-149
BJI III 11 17 49 56.5 37.60N 145.00E 26 5.6b,5.2s **¶17194017**
IDC III 11 17 49 56.2–.50 37.61N 145.03E 0 4.6,4.4
JMA III 11 17 49 59.3–.60 37.75N 144.78E 48 5.4,4.4
NEIC III 11 17 50 01.8–.15 37.66N 144.91E 35 5.0b,4.4
ISCJB III 11 17 50 01.2–.21 37.92N–.04 144.83E–.03 33 4.8b,4.4
MOS III 11 17 50 02.1–.92 38.05N 144.94E 35 5.1b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=14.9km s-min=11.3km az=140.0.
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.6km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.0km az=167.7.
MOS Error ellipse: s-maj=9.0km s-min=5.3km az=97.0.
ISC III 11 17 51 18.9–.33 36.86N–.04 142.14E–.04 19 5.0b 310 1-151
IDC III 11 17 51 16.1–.47 36.83N 142.14E 0 4.8,4.8 **¶600539994**
ISCJB III 11 17 51 17.4–.18 36.79N–.03 142.18E–.03 19 4.9b,4.8
MOS III 11 17 51 18.9–1.0 36.79N 142.15E 31 5.2b,4.8
JMA III 11 17 51 20.1–.30 36.79N 142.08E 32 5.0,4.8
NEIC III 11 17 51 22.7–.69 36.77N 142.06E 50–6 5.0b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=11.0km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=156.8.
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=115.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=136.0.
ISC III 11 17 57 38.2–1.1 37.1N–.10 142.33E–.08 15 4.4b 43 1-83
IDC III 11 17 57 31.6–.94 36.46N 142.59E 0 4.4,4.3 **¶16442224**
ISCJB III 11 17 57 35.9–.78 37.05N–.10 142.41E–.06 15 4.3b,4.3
NEIC III 11 17 57 37.2–2.1 36.43N 142.54E 41–16 4.6b,4.3
JMA III 11 17 57 39.8–.20 37.05N 142.27E 37 4.7,4.3
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=17.0km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=14.5km s-min=4.8km az=160.9.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=11.2km az=107.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 17 59 17.9–1.1 37.4N–.10 144.0E–.10 35 4.2b 17 5-84
IDC III 11 17 59 12.2–1.1 37.35N 144.16E 0 4.3,4.2 **¶17194020**
ISCJB III 11 17 59 15.6–.82 37.3N–.10 144.0E–.10 33 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 01 22.6–2.6 36.6N–.20 143.7E–.50 35 3.9b 9 12-61
IDC III 11 18 01 17.4–2.5 36.63N 143.75E 0 4.0,3.9 **¶17194021**
ISCJB III 11 18 01 19.5–2.0 36.6N–.20 143.9E–.50 33 4.0b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 02 32.4–.59 36.52N–.08 142.44E–.07 15 4.5b 56 3-146
IDC III 11 18 02 29.4–.83 36.48N 142.59E 0 4.4,4.2 **¶600540004**
ISCJB III 11 18 02 31.6–.36 36.62N–.06 142.35E–.06 15 4.4b,4.2
NEIC III 11 18 02 34.5–.70 36.67N 142.33E 24–4 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=21.9km s-min=15.0km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.7km az=146.5.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=13.9km az=153.0.
ISC III 11 18 04 46.5–.59 37.19N–.07 144.61E–.08 26 4.4b 43 5-88
IDC III 11 18 04 42.7–.71 37.12N 144.74E 0 4.5,4.3 **¶602652694**
NEIC III 11 18 04 43.2–4.5 37.15N 144.65E 6–28 4.5b,4.3
ISCJB III 11 18 04 44.6–.45 37.16N–.06 144.55E–.06 26 4.3b,4.3
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 11 18 05 06.0–.77 38.7N–.10 143.6E–.10 15 4.5b 30 5-88
IDC III 11 18 05 03.9–.80 38.67N 143.54E 0 4.5,4.3 **¶16442228**
ISCJB III 11 18 05 04.3–.58 38.56N–.07 143.5E–.10 15 4.3b,4.3
NEIC III 11 18 05 09.4–.66 38.60N 143.39E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=15.1km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=10.2km az=13.8.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=11.9km az=95.0.
ISC III 11 18 09 30.2–.81 37.2N–.10 143.2E–.10 25 4.2b 27 12-89
IDC III 11 18 09 26.2–.78 37.16N 143.08E 0 4.3,4.1 **¶16442230**
ISCJB III 11 18 09 27.9–.57 37.16N–.09 143.16E–.10 25 4.2b,4.1
NEIC III 11 18 09 34.0–1.8 37.19N 143.04E 59–16 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=18.7km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=10.9km az=157.1.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.4km az=113.0.
ISC III 11 18 10 24.3–.44 38.07N–.07 143.97E–.07 35 4.6b 139 4-153
IDC III 11 18 10 19.1–.47 38.04N 143.93E 0 5.0s,5.0 **¶16442233**
NEIC III 11 18 10 21.6–2.5 38.05N 143.95E 16–15 4.7b,5.0
ISCJB III 11 18 10 22.7–.26 38.08N–.05 143.93E–.04 33 5.0s,4.6b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 18 11 10.7–2.1 37.6N–.40 142.6E–.10 21 5.0s,4.3b 16 10-146
IDC III 11 18 11 08.5–2.3 37.80N 142.51E 0 4.9s,4.9 **¶16476560**
ISC Event type ke.
IDC Error ellipse: s-maj=60.2km s-min=25.0km az=180.0.
ISC III 11 18 11 25.8–.50 37.18N–.03 142.16E–.03 25–3 5.9s,5.7b 1641 1-161
NIED III 11 18 11 00 37.10N 142.00E 17 5.7W,5.7b **¶17194026**
IDC III 11 18 11 22.0–.28 37.20N 142.17E 0 5.4,5.4
ISCJB III 11 18 11 22.5–.70 37.17N–.02 142.15E–.01 12–4 5.9s,5.7b
BJI III 11 18 11 23.4 37.09N 141.81E 14 6.0,6.0b
NEIC III 11 18 11 24.7–1.4 37.20N 142.10E 16–8 5.7b,6.0b
JMA III 11 18 11 25.6–.50 37.17N 142.03E 26–5 6.0,6.0b
MOS III 11 18 11 26.1–.97 37.28N 142.13E 35 5.9b,5.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s275.00000°,δ15.00000°,λ-158.00000°. NP2:ϕ_s164.00000°,δ84.00000°,λ-76.00000°. $M_0$3.35000×10^{17}
IDC Error ellipse: s-maj=9.0km s-min=7.7km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=159.5.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0. Recorded [3 JMA] in Chiba, Fukushima, Ibaraki, Miyagi, Saitama, Tochigi and Yamagata.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.8km s-min=3.7km az=103.9.
ISC III 11 18 13 41.1–1.2 36.6N–.20 142.3E–.10 19 5.0b 32 3-146
ISCJB III 11 18 13 35.5–.51 36.21N–.07 142.28E–.08 10 4.9b **¶16442245**
IDC III 11 18 13 36.3–.71 36.33N 142.15E 0 5.0,4.9
NEIC III 11 18 13 41.9–.66 36.45N 142.21E 35 5.1b,4.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.2km az=136.1.
IDC Error ellipse: s-maj=19.8km s-min=14.8km az=154.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=9.8km az=161.0.
ISC III 11 18 16 45.9–.91 36.43N–.09 142.39E–.09 15 4.3b 18 3-85
ISCJB III 11 18 16 42.8–.89 36.44N–.07 142.6E–.10 15 4.2b **¶16308455**
IDC III 11 18 16 42.5–2.0 36.50N 142.61E 0 4.3,4.3b
NEIC III 11 18 16 48.0–.85 36.42N 142.44E 35 4.4b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=9.9km az=178.9.
IDC Error ellipse: s-maj=59.8km s-min=27.3km az=66.0.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=9.6km az=88.0.
ISC III 11 18 17 49.8–1.0 37.90N–.08 143.5E–.20 19 5.3b 16 6-83
ISCJB III 11 18 17 47.6–.84 37.83N–.06 143.6E–.20 19 5.1b **¶16461341**
IDC III 11 18 17 47.1–1.3 37.93N 143.41E 0 5.3,5.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.5km s-min=7.4km az=10.4.
IDC Error ellipse: s-maj=42.5km s-min=19.2km az=91.0.
IDC III 11 18 20 55.3–.96 37.27N 143.45E 0 4.6,4.5
¶17194032
IDC Error ellipse: s-maj=30.7km s-min=21.8km az=111.0.
JMA III 11 18 22 17.8–.40 36.52N 142.04E 62 3.8
¶602652682
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 11 18 24 28.0–.70 37.72N–.09 142.76E–.09 24 4.3b 40 4-76
IDC III 11 18 24 24.6–.62 37.67N 142.77E 0 4.3,4.2b **¶602652676**
ISCJB III 11 18 24 26.0–.49 37.67N–.07 142.74E–.07 24 4.2b,4.2b
NEIC III 11 18 24 29.7–.56 37.71N 142.69E 35 4.4b,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=14.8km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.3km az=145.7.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=9.1km az=131.0.
ISC III 11 18 26 32.3–.79 38.6N–.10 144.8E–.10 43 4.2b 23 7-87
IDC III 11 18 26 26.7–.78 38.59N 144.87E 0 4.1,4.0 **¶16476565**
NEIC III 11 18 26 27.9–.48 38.58N 144.86E 10 4.6b,4.0
ISCJB III 11 18 26 30.4–.63 38.53N–.09 144.8E–.10 43 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 18 30 10.3–.75 37.2N–.10 143.08E–.09 25 4.1b 28 4-75
IDC III 11 18 30 06.3–.71 37.18N 143.15E 0 4.2,4.1 **¶16442249**
ISCJB III 11 18 30 08.0–.57 37.15N–.08 143.16E–.08 25 4.1b,4.1
NEIC III 11 18 30 11.9–1.3 37.19N 143.10E 38–11 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=14.8km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=8.7km az=149.7.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.3km az=104.0.
ISC III 11 18 33 22.5–.81 36.9N–.10 144.4E–.10 26 3.8b 19 5-88
IDC III 11 18 33 18.6–.78 36.91N 144.37E 0 4.1,3.8 **¶602652653**
ISCJB III 11 18 33 20.8–.64 36.95N–.09 144.5E–.10 26 4.0b,3.8
NEIC III 11 18 33 23.6–.63 36.97N 144.28E 35 4.8b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=19.3km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=13.0km az=13.5.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=12.5km az=121.0.
ISC III 11 18 34 16.2–.50 37.00N–.07 144.60E–.07 26 4.5b 69 5-144
IDC III 11 18 34 12.4–.49 37.05N 144.71E 0 4.5,4.4 **¶16476569**
NEIC III 11 18 34 13.8–.30 37.03N 144.71E 10 4.8b,4.4
ISCJB III 11 18 34 13.9–.33 36.92N–.05 144.66E–.06 26 4.4b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 18 34 43.0–1.0 37.6N–.20 142.7E–.20 21 4.2b 12 10-89
IDC III 11 18 34 39.5–.98 37.59N 142.69E 0 4.4,4.2 **¶17194039**
ISCJB III 11 18 34 40.9–.87 37.6N–.10 142.7E–.20 21 4.1b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 35 36.8–1.0 37.9N–.20 142.9E–.10 17 4.1b 14 4-74
IDC III 11 18 35 34.0–.98 37.93N 142.91E 0 4.2,4.0 **¶602652651**
ISCJB III 11 18 35 34.5–.90 37.9N–.10 143.0E–.20 17 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 39 23.0–.94 37.9N–.10 144.0E–.10 35 4.1b 19 4-88
IDC III 11 18 39 18.1–1.4 38.05N 143.93E 0 4.5L,4.3 **¶16476571**
ISCJB III 11 18 39 20.7–.82 37.87N–.09 143.8E–.10 33 4.1b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 39 36.1–.37 37.89N–.05 143.06E–.06 18 4.8b 184 4-154
IDC III 11 18 39 33.7–.42 37.98N 142.98E 0 4.8,4.8s **¶17194040**
ISCJB III 11 18 39 34.8–.22 37.91N–.04 143.04E–.04 18 4.7b,4.8s
NEIC III 11 18 39 39.0–.77 37.96N 143.00E 36–7 4.8b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.1km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.4km az=139.6.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=140.0. Recorded [3 JMA] in Ibaraki.
ISC III 11 18 42 59.5–.58 39.25N–.09 143.37E–.07 11 4.9b 145 3-91
ISCJB III 11 18 42 57.9–.36 39.25N–.06 143.27E–.05 11 4.8s,4.8b **¶16461343**
IDC III 11 18 43 01.9–.90 39.14N 143.32E 33–5 4.4,4.4
NEIC III 11 18 43 02.9–.67 39.19N 143.26E 39–5 5.0b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=4.2km az=155.2.
IDC Error ellipse: s-maj=14.9km s-min=11.3km az=153.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=3.9km az=151.0.
ISC III 11 18 49 03.8–.76 37.6N–.10 144.6E–.10 35 4.2b 21 5-75
IDC III 11 18 48 59.0–.70 37.76N 144.60E 0 4.3,4.2 **¶17194042**
ISCJB III 11 18 49 01.9–.60 37.71N–.09 144.56E–.10 33 4.1b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 18 51 40.2–.66 36.67N–.08 142.65E–.08 15 3.9b 31 4-90
IDC III 11 18 51 37.9–.68 36.72N 142.65E 0 4.1,3.9 **¶16442270**
ISCJB III 11 18 51 38.5–.49 36.67N–.06 142.66E–.06 15 3.9b,3.9
NEIC III 11 18 51 43.0–.42 36.68N 142.63E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=14.2km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.9km az=147.7.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.5km az=148.0.
ISC III 11 19 07 52.2–.72 36.6N–.10 142.3E–.10 10 4.4b 17 3-146
IDC III 11 19 07 50.5–.69 36.47N 142.23E 0 4.6,4.4 **¶602707115**
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=17.4km az=156.0.
ISC III 11 19 10 49.3–.89 38.4N–.10 144.1E–.10 14 4.6b 25 9-83
IDC III 11 19 10 46.8–.73 38.23N 144.08E 0 4.5,4.4 **¶16451970**
ISCJB III 11 19 10 47.5–.68 38.2N–.10 144.0E–.10 14 4.5b,4.4
NEIC III 11 19 10 52.3–.75 38.16N 144.02E 35 5.0b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=17.6km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=13.8km az=2.9.
NEIC Event type fe. Error ellipse: s-maj=17.0km s-min=16.6km az=114.0. Recorded [4 JMA] in Nagano.
ISC III 11 19 12 35.2–1.4 37.3N–.20 143.8E–.10 35 4.3b 13 10-88
IDC III 11 19 12 26.9–.79 36.67N 143.77E 0 4.5,4.2 **¶16451971**
NEIC III 11 19 12 32.5–.82 36.84N 143.76E 35 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=28.4km s-min=19.9km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=23.1km s-min=18.4km az=112.0. Recorded [4 JMA] in Nagano and Niigata.
ISC III 11 19 17 05.6–.92 37.8N–.10 143.3E–.10 18 3.8b 13 4-76
ISCJB III 11 19 17 03.7–.75 37.8N–.10 143.3E–.10 18 3.8b **¶17194047**
IDC III 11 19 17 03.0–.86 37.90N 143.20E 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=13.2km az=162.7.
IDC Error ellipse: s-maj=23.2km s-min=20.4km az=131.0.
ISC III 11 19 18 33.6–.77 38.8N–.10 144.4E–.10 29 4.1b 35 11-87
IDC III 11 19 18 29.1–.72 38.73N 144.40E 0 4.2,4.0 **¶602653129**
ISCJB III 11 19 18 31.5–.54 38.71N–.08 144.32E–.09 29 4.1b,4.0
NEIC III 11 19 18 33.3–3.8 38.76N 144.38E 27–26 4.4b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=15.6km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=9.2km az=150.4.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=9.1km az=124.0.
ISC III 11 19 20 17.4–5.0 36.0N–.60 142.1E–.40 50 3.9b 7 1-75
IDC III 11 19 20 12.3–2.9 37.39N 143.28E 0 4.2,4.1 **¶603049472**
JMA III 11 19 20 17.0–.30 36.28N 141.83E 77 3.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=108.3km s-min=26.7km az=68.0.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 11 19 20 45.5–1.0 36.8N–.10 142.5E–.20 9 4.1b 19 4-75
ISCJB III 11 19 20 43.4–.81 36.83N–.09 142.5E–.10 9 4.1b ¶17194049
IDC III 11 19 20 45.0–1.0 36.90N 142.24E 0 4.2,4.0
NEIC III 11 19 20 49.7–2.8 36.82N 142.33E 37–24 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=12.3km az=174.1.
IDC Error ellipse: s-maj=33.9km s-min=20.1km az=76.0.
NEIC Event type se. Error ellipse: s-maj=28.4km s-min=14.7km az=68.0.
ISC III 11 19 21 31.5–.94 38.5N–.20 143.9E–.10 14 4.1b 17 11-75
ISCJB III 11 19 21 29.4–.70 38.5N–.10 143.8E–.20 14 4.0b ¶16451974
IDC III 11 19 21 29.3–.80 38.51N 143.89E 0 4.2,4.0
NEIC III 11 19 21 34.4–.65 38.54N 143.74E 35 4.6b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=16.6km az=26.5.
IDC Error ellipse: s-maj=21.4km s-min=21.0km az=34.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=16.2km az=213.0.
ISC III 11 19 22 12.6–.90 37.3N–.10 144.3E–.10 35 4.3b 18 5-75
IDC III 11 19 22 07.5–.87 37.31N 144.43E 0 4.3,4.1 ¶602653121
ISCJB III 11 19 22 10.1–.65 37.25N–.10 144.32E–.10 33 4.2b,4.1
NEIC III 11 19 22 11.4–.95 37.01N 144.35E 35 4.7b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.3km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=10.9km az=166.4.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=14.6km az=148.0.
JMA III 11 19 22 40.4–.20 37.29N 142.07E 22–3 4.0
¶16451977
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 19 30 13.8–.72 37.45N–.09 142.76E–.08 24 4.6b 41 2-89
NEIC III 11 19 30 09.0–.51 37.06N 142.98E 10 5.0b ¶602653079
JMA III 11 19 30 10.5–.40 37.44N 142.76E 11 5.0
ISCJB III 11 19 30 11.5–.54 37.39N–.08 142.80E–.06 24 4.5b
IDC III 11 19 30 15.7–4.0 37.44N 142.80E 40–34 4.4,4.3
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.8km az=113.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.2km az=169.0.
IDC Error ellipse: s-maj=19.4km s-min=17.2km az=112.0.
ISC III 11 19 32 12.1–.84 37.1N–.10 142.4E–.20 9 4.7b 22 4-146
ISCJB III 11 19 32 09.8–.57 37.07N–.09 142.5E–.10 9 4.8b ¶17194058
IDC III 11 19 32 11.2–1.1 37.09N 142.30E 0 4.8,4.8
NEIC III 11 19 32 15.8–.53 37.11N 142.44E 35 5.2b,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=11.8km az=144.2.
IDC Error ellipse: s-maj=32.0km s-min=21.4km az=90.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=10.3km az=179.0.
ISC III 11 19 35 09.7–.64 38.7N–.10 143.3E–.10 15 4.5b 39 6-94
IDC III 11 19 35 06.9–.65 38.65N 143.27E 0 4.5,4.4 ¶16476588
ISCJB III 11 19 35 07.5–.47 38.63N–.08 143.23E–.09 15 4.4b,4.4
NEIC III 11 19 35 11.8–.43 38.58N 143.21E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.5km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=10.3km az=176.4.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.4km az=128.0.
ISC III 11 19 39 31.4–.78 39.38N–.07 143.1E–.10 18 4.1b 31 2-88
IDC III 11 19 39 28.5–1.0 39.34N 143.22E 0 4.2,4.0 ¶16313890
JMA III 11 19 39 31.5–.30 39.40N 143.19E 9–5 4.6,4.0
NEIC III 11 19 39 33.3–.67 39.35N 143.20E 35 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=20.4km az=150.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=9.8km az=119.0.
ISC III 11 19 39 55.3–1.2 39.3N–.10 143.4E–.20 11 4.5b 31 5-82
IDC III 11 19 39 52.8–3.2 39.18N 143.33E 0 4.4,4.4 ¶16476589
ISCJB III 11 19 39 53.7–.92 39.3N–.10 143.3E–.20 11 4.4b,4.4
NEIC III 11 19 39 59.9–2.0 39.39N 143.21E 39–14 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=68.3km s-min=28.3km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=17.8km s-min=15.3km az=40.4.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=9.8km az=127.0.
ISC III 11 19 40 10.3–.74 37.34N–.06 143.60E–.08 27–4 4.8b 98 4-153
BJI III 11 19 40 05.2 37.77N 143.77E 11 4.7b ¶17194059
IDC III 11 19 40 06.6–.56 37.53N 143.64E 0 4.7,4.6
ISCJB III 11 19 40 10.0–.36 37.31N–.05 143.53E–.07 38 4.8b,4.6
NEIC III 11 19 40 11.6–.29 37.44N 143.56E 35 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=12.8km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.8km az=28.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.0km az=126.0.
ISC III 11 19 56 04.5–.69 39.14N–.07 144.35E–.08 19 4.5b 60 3-83
IDC III 11 19 56 00.8–.69 38.92N 144.35E 0 4.5,4.4 ¶602652565
NEIC III 11 19 56 01.7–3.0 38.90N 144.36E 7–19 5.0b,4.4
ISCJB III 11 19 56 03.0–.56 39.13N–.07 144.27E–.07 19 4.4b,4.4
JMA III 11 19 56 04.0–.30 39.23N 144.31E 45 4.7,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=17.4km s-min=14.9km az=143.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.3km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.6km az=150.6.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 11 20 01 34.1–.48 37.96N–.06 143.94E–.07 35 4.3b 72 5-119
ISCJB III 11 20 01 32.4–.39 38.02N–.05 143.94E–.06 33 4.3b ¶602652547
IDC III 11 20 01 34.0–4.2 38.00N 143.97E 33–31 4.2,4.1
NEIC III 11 20 01 34.2–.95 37.99N 143.98E 36–8 4.8b,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.3km az=143.3.
IDC Error ellipse: s-maj=15.2km s-min=11.8km az=121.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=118.0.
ISC III 11 20 02 31.0–1.8 38.0N–.20 143.1E–.20 18 4.1b 8 10-46
IDC III 11 20 02 28.0–2.5 37.91N 143.13E 0 4.2b,4.1 ¶17194065
ISCJB III 11 20 02 29.5–1.7 38.1N–.20 143.0E–.20 18 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 20 02 48.9–.93 39.0N–.20 145.8E–.20 35 4.3b 8 43-86
IDC III 11 20 02 43.6–.79 39.00N 145.87E 0 4.4,4.1 ¶17194069
ISCJB III 11 20 02 46.7–.75 38.9N–.10 145.8E–.20 33 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 20 03 22.3–1.2 38.21N 143.07E 0 4.4,4.1
¶602652535
IDC Error ellipse: s-maj=32.3km s-min=31.7km az=168.0.
ISC III 11 20 05 54.2–.70 37.0N–.10 143.30E–.10 35 4.0b 28 4-80
IDC III 11 20 05 48.9–.70 37.01N 143.39E 0 4.1,4.0 ¶16451978
NEIC III 11 20 05 50.2–.50 36.96N 143.33E 10 4.5b,4.0
ISCJB III 11 20 05 51.8–.54 36.95N–.08 143.27E–.08 33 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 20 06 10.3–1.2 36.2N–.20 142.5E–.20 18 4.0b 9 2-70
IDC III 11 20 06 07.4–1.2 36.22N 142.58E 0 4.1,4.0 ¶16476604
ISCJB III 11 20 06 08.3–.94 36.3N–.10 142.4E–.20 18 4.0b,4.0
JMA III 11 20 06 19.6–.10 36.63N 141.42E 32–2 3.7,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=33.5km s-min=21.7km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=13.9km az=141.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 11 20 07 00.8–.91 37.7N–.10 142.7E–.10 21 4.2b 16 4-63
IDC III 11 20 06 56.9–1.3 37.49N 142.50E 0 4.3,4.2 ¶16451979
ISCJB III 11 20 06 58.6–.81 37.65N–.10 142.7E–.10 21 4.1b,4.2
NEIC III 11 20 07 02.1–.77 37.67N 142.71E 35 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=21.6km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=11.5km az=43.3.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.7km az=121.0.
ISC III 11 20 09 47.0–1.0 35.2N–.10 143.3E–.20 35 4.1b 13 4-83
IDC III 11 20 09 41.4–1.4 35.17N 143.43E 0 4.2,4.0 ¶16451984
ISCJB III 11 20 09 44.6–.85 35.1N–.10 143.4E–.20 33 4.1b,4.0
NEIC III 11 20 09 46.9–.79 35.18N 143.33E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=42.4km s-min=27.7km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=23.0km s-min=14.0km az=11.4.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=13.3km az=101.0.
ISC III 11 20 15 21.5–.69 38.47N–.07 144.72E–.08 29 4.6b 40 3-144
IDC III 11 20 15 16.6–.99 38.40N 144.82E 0 5.8,5.8s ¶16451986
NEIC III 11 20 15 18.2–.49 38.39N 144.86E 10 5.0b,5.8s
ISCJB III 11 20 15 19.6–.55 38.46N–.06 144.68E–.06 29 4.6b,5.8s
JMA III 11 20 15 19.7–.30 38.47N 144.70E 47 4.9,5.8s
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=21.3km az=160.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.1km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=152.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 20 17 11.4–.70 37.29N–.09 142.6E–.10 21 4.5b 30 1-154
IDC III 11 20 17 07.6–.62 37.55N 142.67E 0 4.6,4.5b ¶16451987
ISCJB III 11 20 17 09.1–.48 37.35N–.06 142.52E–.07 21 4.5b,4.5b
NEIC III 11 20 17 12.3–3.6 37.36N 142.58E 31–25 4.9b,4.5b
JMA III 11 20 17 12.4–.30 37.29N 142.06E 30 4.3,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=14.7km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.5km az=139.3.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=9.8km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 11 20 18 22.0–.30 37.52N 142.02E 39 3.7
¶603049482
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 20 19 50.6–1.7 37.3N–.30 143.0E–.20 24 4.2b 14 4-146
IDC III 11 20 19 48.6–1.8 37.50N 143.08E 0 4.7L,4.3 ¶17194081
ISCJB III 11 20 19 49.3–1.6 37.3N–.30 143.1E–.20 24 4.1b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 20 22 54.2–.71 37.6N–.10 143.42E–.09 35 4.5b 38 2-145
IDC III 11 20 22 49.1–.64 37.68N 143.51E 0 4.5,4.4 ¶16476149
NEIC III 11 20 22 52.4–4.3 37.62N 143.47E 22–30 4.9b,4.4
ISCJB III 11 20 22 52.2–.53 37.62N–.08 143.36E–.08 33 4.5b,4.4
JMA III 11 20 22 55.9–.30 37.44N 142.53E 52 4.9,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=13.6km az=148.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=11.7km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=8.4km az=154.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 20 26 20.3–.35 37.71N–.05 143.45E–.05 35 5.2b 286 2-145
NEIC III 11 20 26 16.7–2.7 37.68N 143.34E 6–16 5.4b ¶602652458
IDC III 11 20 26 16.1–.52 37.71N 143.42E 0 5.0,4.9
MOS III 11 20 26 19.8–1.0 37.80N 143.37E 33 5.5b,4.9
ISCJB III 11 20 26 19.3–.22 37.66N–.04 143.34E–.03 33 5.2b,4.9
JMA III 11 20 26 52.2–.20 37.65N 141.62E 44–3 4.9,4.9
ISC Event type ke.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=134.0. Recorded [3 JMA] in Fukushima.
IDC Error ellipse: s-maj=14.3km s-min=12.7km az=129.0.
MOS Error ellipse: s-maj=8.3km s-min=5.5km az=107.6.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.5km az=161.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 20 30 37.6–.72 37.47N–.09 143.69E–.08 35 4.6b 37 2-118
IDC III 11 20 30 32.6–.86 37.57N 143.83E 0 4.5,4.4b ¶16476151
ISCJB III 11 20 30 35.6–.53 37.42N–.06 143.67E–.06 33 4.5b,4.4b
JMA III 11 20 30 37.7–.20 37.38N 143.22E 0 4.8,4.4b
NEIC III 11 20 30 37.8–.50 37.53N 143.86E 35 4.8b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=19.0km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=4.9km az=150.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.3km az=148.0.
ISC III 11 20 33 25.4–.63 37.68N–.09 143.06E–.09 24 4.3b 46 4-145
IDC III 11 20 33 21.8–.59 37.65N 143.07E 0 4.3,4.2 ¶16308472
ISCJB III 11 20 33 23.3–.50 37.64N–.07 143.07E–.08 24 4.3b,4.2
NEIC III 11 20 33 27.3–1.1 37.69N 143.00E 37–9 4.6b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.5km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.5km az=147.9.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.0km az=122.0.
ISC III 11 20 36 08.6–.47 37.89N–.03 142.92E–.03 17–2 5.5s,5.5b 993 2-159
ISCJB III 11 20 36 04.6–1.2 37.83N–.02 142.89E–.02 1–7 5.5b,5.4s ¶16308473
IDC III 11 20 36 06.0–.36 37.82N 142.91E 0 5.3,5.2
BJI III 11 20 36 07.7 37.89N 142.93E 30 5.8b,5.7s
JMA III 11 20 36 09.0–.40 37.80N 142.73E 4 5.6,5.7s
NEIC III 11 20 36 10.3–1.2 37.83N 142.83E 26–8 5.5b,5.7s
MOS III 11 20 36 10.2–.94 37.97N 142.85E 33 5.6b,5.3s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=158.1.
IDC Error ellipse: s-maj=11.8km s-min=9.5km az=101.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.5km az=131.0.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=104.9.
ISC III 11 20 41 07.8–.61 37.83N–.06 142.45E–.07 21 4.0b 34 2-89
IDC III 11 20 41 03.9–.66 37.72N 142.75E 0 4.1,4.0 ¶602652414
NEIC III 11 20 41 05.2–.49 37.67N 142.62E 10 4.6b,4.0
ISCJB III 11 20 41 05.6–.46 37.73N–.05 142.43E–.06 21 3.9b,4.0
JMA III 11 20 41 08.4–.30 37.96N 142.32E 19 4.6,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=18.7km s-min=14.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.8km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.4km az=21.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 11 20 41 24.8–.72 37.67N–.06 143.74E–.05 30–4 4.8b 187 4-153
IDC III 11 20 41 20.4–.46 37.68N 143.83E 0 4.6,4.5 ¶17194083
BJI III 11 20 41 22.9 37.79N 143.58E 17 5.3,5.3b
MOS III 11 20 41 23.6–1.1 37.67N 143.73E 33 5.2b,5.3b
ISCJB III 11 20 41 23.7–.25 37.66N–.04 143.68E–.04 33 4.8b,5.3b
NEIC III 11 20 41 24.3–.63 37.66N 143.71E 24–4 5.1b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.5km az=126.0.
MOS Error ellipse: s-maj=8.3km s-min=6.5km az=99.4.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=158.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.2km az=154.0.
ISC III 11 20 41 34.2–.56 37.80N–.09 143.2E–.10 18 4.6b 26 4-154
IDC III 11 20 41 31.3–.50 37.85N 143.13E 0 4.8,4.6 ¶17194087
ISCJB III 11 20 41 32.3–.45 37.81N–.07 143.1E–.10 18 4.6b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 20 45 12.7–.47 36.49N–.05 142.13E–.06 19 4.7b 92 1-146
IDC III 11 20 45 10.2–.61 36.60N 142.05E 0 4.7,4.7 ¶602652409
JMA III 11 20 45 11.4–.20 36.65N 142.17E 23 4.8,4.7
ISCJB III 11 20 45 11.2–.30 36.50N–.04 142.14E–.04 19 4.6b,4.7
NEIC III 11 20 45 15.8–.99 36.49N 142.08E 42–9 4.8b,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=16.5km s-min=14.2km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.6km az=137.9.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.5km az=75.0.
ISC III 11 20 46 56.6–.63 39.12N–.08 143.07E–.09 16 4.7b 46 3-117
IDC III 11 20 46 53.9–.72 39.15N 143.03E 0 4.7,4.5 ¶16476154
ISCJB III 11 20 46 54.7–.40 39.14N–.06 143.02E–.07 16 4.6b,4.5

NEIC III 11 20 46 59.3–.87 39.17N 143.00E 36–8 5.0b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=14.2km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.7km az=144.5.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.8km az=140.0.
ISC III 11 20 50 03.1–.55 37.20N–.06 142.63E–.07 9 4.4b 43 2-146
IDC III 11 20 50 01.9–.64 37.23N 142.47E 0 4.4,4.3 **¶602652390**
ISCJB III 11 20 50 01.3–.44 37.19N–.05 142.64E–.06 9 4.3b,4.3
JMA III 11 20 50 04.4–.30 37.31N 142.55E 27 4.7,4.3
NEIC III 11 20 50 07.0–1.6 37.20N 142.61E 36–13 4.7b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=18.2km s-min=14.5km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.0km az=38.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=11.2km az=103.0.
ISC III 11 20 51 22.7–.49 38.99N–.06 144.36E–.08 19 4.5b 60 3-153
IDC III 11 20 51 19.9–.55 38.99N 144.43E 0 4.6,4.5 **¶16461351**
ISCJB III 11 20 51 20.8–.37 38.94N–.05 144.40E–.06 19 4.5b,4.5
NEIC III 11 20 51 21.3–.26 38.96N 144.45E 10 4.9b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=11.4km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.5km az=138.9.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=141.0.
ISC III 11 20 54 52.1–.56 38.60N–.08 144.23E–.09 35 4.5b 45 5-144
IDC III 11 20 54 47.1–.63 38.67N 144.30E 0 4.5,4.4 **¶17194089**
ISCJB III 11 20 54 50.2–.43 38.64N–.06 144.22E–.08 35 4.4b,4.4
NEIC III 11 20 54 51.4–2.5 38.67N 144.25E 29–17 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.4km az=138.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=119.0.
IDC III 11 20 56 46.5–2.4 39.18N 143.48E 0 4.7L,4.3
¶17194094
IDC Error ellipse: s-maj=68.5km s-min=27.8km az=68.0.
ISC III 11 20 58 48.7–.68 38.60N–.08 143.3E–.10 23 4.0b 29 3-88
IDC III 11 20 58 44.9–.66 38.52N 143.26E 0 4.0,3.9 **¶16476157**
ISCJB III 11 20 58 46.6–.50 38.57N–.06 143.20E–.09 23 4.0b,3.9
NEIC III 11 20 58 46.4–.40 38.55N 143.26E 10 4.9b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=16.4km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=8.1km az=11.4.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.5km az=97.0.
ISC III 11 21 03 31.7–.91 37.80N–.07 142.96E–.07 17–5 4.8b 113 4-154
ISCJB III 11 21 03 32.4–.31 37.72N–.05 142.96E–.06 33 4.8b **¶16407488**
NEIC III 11 21 03 35.0–.99 37.83N 142.91E 39–8 5.0b
IDC III 11 21 03 35.9–2.6 37.81N 142.90E 46–24 4.8,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.6km az=139.9.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.4km az=123.0.
IDC Error ellipse: s-maj=14.0km s-min=11.8km az=119.0.
ISC III 11 21 08 56.2–.55 37.16N–.08 143.63E–.07 35 4.0b 49 4-92
IDC III 11 21 08 51.2–.69 37.21N 143.75E 0 4.2,4.0 **¶16407489**
ISCJB III 11 21 08 54.3–.37 37.17N–.06 143.60E–.05 33 4.1b,4.0
NEIC III 11 21 08 57.1–1.2 37.21N 143.60E 43–11 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.3km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.6km az=158.6.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.1km az=128.0.
ISC III 11 21 09 15.4–1.7 37.1N–.30 143.4E–.10 35 4.3b 27 11-145
IDC III 11 21 09 10.2–2.4 37.08N 143.39E 0 4.4,4.3 **¶17194095**
NEIC III 11 21 09 16.0–1.2 37.19N 143.38E 35 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=69.4km s-min=23.6km az=180.0.
NEIC Event type se. Error ellipse: s-maj=33.9km s-min=10.8km az=175.0.
ISC III 11 21 10 29.5–1.1 38.5N–.10 144.7E–.10 29 4.3b 13 4-63
IDC III 11 21 10 26.8–1.3 38.31N 144.57E 0 4.2,4.0 **¶16476629**
ISCJB III 11 21 10 26.9–.80 38.5N–.10 144.7E–.10 29 4.1b,4.0
NEIC III 11 21 10 29.5–.77 38.61N 144.72E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=36.6km s-min=26.9km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=13.3km az=157.9.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=14.2km az=126.0.
ISC III 11 21 13 38.1–.64 36.39N–.09 142.16E–.10 19 3.7b 23 3-146
IDC III 11 21 13 35.2–.93 36.41N 142.27E 0 3.8,3.8L **¶16476634**
ISCJB III 11 21 13 36.3–.49 36.41N–.07 142.20E–.09 19 3.9b,3.8L
NEIC III 11 21 13 38.2–3.7 36.40N 142.18E 19–23 4.1b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=24.2km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=10.1km az=155.6.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.7km az=119.0.
ISC III 11 21 13 54.4–.68 36.7N–.10 142.37E–.09 15 4.3b 54 3-146
ISCJB III 11 21 13 52.8–.41 36.67N–.08 142.33E–.06 15 4.3b **¶17194104**
NEIC III 11 21 13 58.5–1.1 36.66N 142.29E 47–10 4.1b
IDC III 11 21 13 58.2–2.9 36.67N 142.30E 44–26 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.9km az=170.4.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.2km az=141.0.
IDC Error ellipse: s-maj=21.4km s-min=16.0km az=125.0.
ISC III 11 21 15 06.0–.88 37.2N–.10 143.2E–.10 25 4.0b 19 4-89
IDC III 11 21 15 02.2–.91 37.12N 143.30E 0 4.2,4.0 **¶17194106**
ISCJB III 11 21 15 04.0–.70 37.16N–.09 143.09E–.09 25 4.1b,4.0
NEIC III 11 21 15 07.4–.87 37.15N 143.14E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.0km s-min=17.3km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=9.0km az=154.3.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=11.8km az=151.0.
IDC III 11 21 18 17.0–13 35.59N 143.01E 0 3.9,3.9L
¶17194108
IDC Error ellipse: s-maj=273.2km s-min=78.2km az=164.0.
ISC III 11 21 19 23.1–.89 37.2N–.20 144.5E–.10 26 3.9b 11 12-144
IDC III 11 21 19 19.0–.99 37.17N 144.63E 0 4.1,3.8 **¶16476639**
ISCJB III 11 21 19 21.2–.83 37.2N–.10 144.5E–.10 26 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 21 20 02.3–.86 37.6N–.20 144.4E–.10 35 4.1b 21 5-75
IDC III 11 21 19 56.9–.96 37.67N 144.42E 0 5.1L,4.3 **¶17194109**
ISCJB III 11 21 20 00.1–.54 37.60N–.10 144.4E–.10 33 4.1b,4.3
NEIC III 11 21 20 02.3–.39 37.63N 144.36E 35 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=23.3km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=15.4km s-min=10.0km az=151.3.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=7.5km az=149.0. Recorded [3 JMA] in Nagano.
ISC III 11 21 21 04.5–.85 37.4N–.20 144.3E–.20 35 4.0b 9 6-76
IDC III 11 21 20 59.4–.82 37.44N 144.29E 0 4.6L,4.2 **¶16476641**
ISCJB III 11 21 21 02.3–.70 37.4N–.10 144.3E–.20 33 3.9b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 21 23 25.2–1.2 38.2N–.20 143.4E–.20 19 3.9b 10 4-79
IDC III 11 21 23 22.3–1.2 38.16N 143.32E 0 4.0,3.9 **¶17194113**
ISCJB III 11 21 23 23.0–.98 38.1N–.10 143.4E–.30 19 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 21 28 28.3–1.4 39.69N 143.59E 0 3.8,3.7
¶17194114
IDC Error ellipse: s-maj=33.9km s-min=28.9km az=68.0.
ISC III 11 21 30 35.0–.56 37.35N–.09 142.49E–.08 21 4.3b 74 10-154
ISCJB III 11 21 30 33.2–.43 37.32N–.07 142.45E–.07 21 4.3b **¶602652298**
NEIC III 11 21 30 36.8–2.3 37.38N 142.46E 33–16 4.2b
IDC III 11 21 30 36.8–4.6 37.38N 142.47E 33–34 4.3,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.6km az=155.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=142.0.
IDC Error ellipse: s-maj=14.2km s-min=11.8km az=132.0.
ISC III 11 21 32 08.0–.60 39.6N–.10 143.30E–.08 11 4.2b 47 10-93
ISCJB III 11 21 32 06.4–.43 39.56N–.08 143.25E–.07 11 4.3b **¶16409250**
IDC III 11 21 32 13.8–4.4 39.55N 143.21E 58–37 4.2,4.1
NEIC III 11 21 32 14.4–.92 39.60N 143.17E 62–8 4.2b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.6km az=161.5.
IDC Error ellipse: s-maj=41.7km s-min=18.2km az=158.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.7km az=153.0.
ISC III 11 21 38 05.7–.72 38.5N–.10 144.70E–.10 29 4.2b 29 4-87
IDC III 11 21 38 01.2–.72 38.57N 144.70E 0 4.3,4.2 **¶16409251**
ISCJB III 11 21 38 04.0–.55 38.51N–.09 144.63E–.09 29 4.1b,4.2
NEIC III 11 21 38 06.8–.37 38.54N 144.70E 35 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=17.7km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=9.5km az=175.5.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.1km az=167.0.
IDC III 11 21 41 51.6–5.7 37.89N 142.60E 64–51 3.9,3.9
¶16476645
IDC Error ellipse: s-maj=31.3km s-min=22.0km az=144.0.
ISC III 11 21 41 58.8–.82 37.28N–.04 142.43E–.04 20–3 5.3b,5.2s 1001 1-164
NIED III 11 21 41 00 37.20N 142.50E 8 5.4W,5.2s **¶17194115**
BJI III 11 21 41 54.2 37.26N 142.34E 8 5.7b,5.5s
JMA III 11 21 41 54.6–.30 37.28N 142.53E 2 5.6,5.5s
IDC III 11 21 41 55.2–.44 37.22N 142.43E 0 5.1,5.1b
ISCJB III 11 21 41 55.0–.74 37.25N–.02 142.44E–.02 5–4 5.2b,5.2s
MOS III 11 21 42 00.9–.98 37.58N 142.32E 36 5.6b,5.2s
NEIC III 11 21 42 00.1–1.2 37.26N 142.30E 28–8 5.2b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ30.00000°,λ-174.00000°. NP2:ϕ_s39.00000°,δ87.00000°,λ-60.00000°. $M_0$1.48000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.1km s-min=10.0km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=161.0.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=104.4.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=148.0.
ISC III 11 21 42 48.2–1.1 38.0N–.20 143.1E–.30 18 4.3b 7 48-88
IDC III 11 21 42 45.4–1.1 38.02N 143.13E 0 4.8,4.4 **¶17194119**
ISCJB III 11 21 42 46.2–1.0 38.0N–.20 143.0E–.30 18 4.4b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 21 45 18.8–.76 39.6N–.10 143.2E–.10 18 4.3b 49 5-87
IDC III 11 21 45 15.9–.83 39.55N 143.24E 0 4.4,4.3 **¶16409256**
ISCJB III 11 21 45 16.9–.53 39.51N–.08 143.21E–.09 18 4.3b,4.3
NEIC III 11 21 45 22.0–1.5 39.54N 143.24E 42–13 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=16.9km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.2km az=145.4.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.9km az=145.0.
ISC III 11 21 45 39.2–.97 39.3N–.20 143.4E–.10 11 4.4b 29 5-88
ISCJB III 11 21 45 37.9–.75 39.4N–.10 143.3E–.10 11 4.2b **¶17194120**
IDC III 11 21 45 37.8–1.7 39.34N 143.33E 0 4.5,4.3
NEIC III 11 21 45 43.4–1.2 39.28N 143.29E 40–13 4.2b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=8.5km az=153.2.
IDC Error ellipse: s-maj=43.5km s-min=18.7km az=158.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=8.1km az=173.0.
ISC III 11 21 47 07.3–.60 38.28N–.10 144.79E–.09 35 4.5b 69 11-135
ISCJB III 11 21 47 05.7–.35 38.29N–.07 144.74E–.06 35 4.4b **¶16425247**
NEIC III 11 21 47 07.3–.22 38.27N 144.77E 35 4.4b
IDC III 11 21 47 08.7–3.7 38.27N 144.76E 47–34 4.3,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.4km az=157.9.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.2km az=153.0.
IDC Error ellipse: s-maj=19.1km s-min=14.9km az=153.0.
ISC III 11 21 47 26.0–.51 38.93N–.09 144.70E–.07 19 4.3b 75 6-118
ISCJB III 11 21 47 24.2–.31 38.91N–.06 144.62E–.05 19 4.3b **¶16425250**
NEIC III 11 21 47 26.4–1.7 38.91N 144.67E 22–12 4.3b
IDC III 11 21 47 27.9–4.6 38.94N 144.65E 33–35 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.1km az=154.4.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.1km az=142.0.
IDC Error ellipse: s-maj=16.6km s-min=12.4km az=129.0.
ISC III 11 21 47 37.6–.69 38.68N–.10 143.6E–.20 15 4.6b 30 3-87
ISCJB III 11 21 47 35.6–.47 38.64N–.07 143.6E–.10 15 4.5b **¶16425253**
IDC III 11 21 47 35.2–.72 38.70N 143.65E 0 4.6,4.4
NEIC III 11 21 47 40.7–.46 38.72N 143.45E 35 4.6,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=10.0km az=4.2.
IDC Error ellipse: s-maj=23.5km s-min=16.2km az=83.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.9km az=89.0.
ISC III 11 21 55 24.9–.92 37.2N–.10 142.8E–.10 25 4.3b 21 4-88
IDC III 11 21 55 21.1–1.2 37.18N 142.81E 0 4.2,4.1 **¶16425259**
ISCJB III 11 21 55 22.8–.56 37.20N–.08 142.82E–.10 25 4.2b,4.1
NEIC III 11 21 55 26.7–1.7 37.22N 142.80E 42–15 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=42.5km s-min=20.9km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=11.2km az=151.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.1km az=118.0.
ISC III 11 21 56 36.4–.54 37.78N–.09 143.77E–.07 35 4.3b 81 5-88
NEIC III 11 21 56 33.9–2.8 37.81N 143.78E 17–17 4.3b **¶17194122**
ISCJB III 11 21 56 34.3–.34 37.77N–.06 143.73E–.05 33 4.3b
IDC III 11 21 56 36.0–5.2 37.78N 143.83E 32–38 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.1km az=158.7.
IDC Error ellipse: s-maj=16.5km s-min=13.5km az=105.0.
ISC III 11 21 57 57.3–.65 36.78N–.10 143.48E–.09 35 4.2b 32 4-89
IDC III 11 21 57 52.2–.79 36.75N 143.65E 0 4.3,4.2 **¶16425261**
ISCJB III 11 21 57 55.3–.45 36.78N–.08 143.45E–.08 35 4.2b,4.2
NEIC III 11 21 57 57.3–.30 36.80N 143.48E 35 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=19.1km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=8.2km az=156.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.9km az=151.0.
ISC III 11 21 59 02.2–1.5 39.0N–.20 144.6E–.10 19 4.2b 22 3-87
IDC III 11 21 58 59.1–3.3 38.98N 144.60E 0 4.2,4.1 **¶16442272**
ISCJB III 11 21 59 00.2–1.3 38.9N–.20 144.5E–.20 19 4.1b,4.1
NEIC III 11 21 59 04.8–.81 39.02N 144.54E 35 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=97.0km s-min=26.1km az=179.0.
ISCJB Event type se. Error ellipse: s-maj=28.9km s-min=17.3km az=170.5.
NEIC Event type se. Error ellipse: s-maj=18.2km s-min=10.8km az=163.0.
JMA III 11 22 00 10.9–.30 37.00N 142.21E 43 3.8
¶603049502
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 11 22 01 28.3–.54 37.73N–.07 143.08E–.09 18 4.1b 43 4-89
IDC III 11 22 01 25.3–.76 37.71N 143.17E 0 4.1,4.0 **¶16425262**
ISCJB III 11 22 01 26.4–.39 37.71N–.05 143.03E–.07 18 4.1b,4.0
NEIC III 11 22 01 30.8–.28 37.79N 143.04E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=16.4km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.6km az=33.9.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=5.8km az=161.0. Recorded [4 JMA] in Nagano.
ISC III 11 22 06 45.4–.70 37.44N–.10 143.50E–.10 35 4.0b 27 4-89
IDC III 11 22 06 39.9–.67 37.41N 143.57E 0 4.1,3.9 **¶16425264**
ISCJB III 11 22 06 43.3–.49 37.39N–.08 143.40E–.08 33 4.0b,3.9
NEIC III 11 22 06 45.2–.49 37.38N 143.38E 35 4.0b,3.9

ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=17.0km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=8.9km az=166.9.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.1km az=151.0.
ISC III 11 22 08 00.5–.51 39.32N–.07 143.39E–.07 11 4.6b 144 3-88
IDC III 11 22 07 58.2–.67 39.21N 143.38E 0 4.5,4.4 **¶16403904**
ISCJB III 11 22 08 00.2–.41 39.49N–.07 143.29E–.06 11 4.6b,4.6s
NEIC III 11 22 08 02.3–1.8 39.23N 143.34E 24–12 4.6b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=14.5km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.6km az=151.6.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.7km az=144.0.
ISC III 11 22 12 00.2–.59 40.78N–.08 143.61E–.08 31 4.5b 68 1-87
IDC III 11 22 11 55.6–.71 40.80N 143.66E 0 4.5,4.4b **¶602652252**
NEIC III 11 22 11 57.9–2.2 40.79N 143.66E 15–13 4.5,4.4b
ISCJB III 11 22 11 58.3–.42 40.77N–.06 143.59E–.07 31 4.4b,4.4b
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 11 22 14 56.9–.58 36.87N–.08 142.37E–.09 9 4.3b 42 4-90
ISCJB III 11 22 14 55.5–.40 36.93N–.07 142.32E–.07 9 4.2b **¶16425270**
IDC III 11 22 15 01.2–4.5 36.95N 142.30E 36–38 4.2,4.1
NEIC III 11 22 15 02.6–.89 36.95N 142.28E 50–8 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=7.4km az=151.2.
IDC Error ellipse: s-maj=21.8km s-min=17.8km az=81.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=149.0.
IDC III 11 22 17 53.5–3.5 38.30N 144.24E 0 3.9,3.7
¶16425271
IDC Error ellipse: s-maj=93.7km s-min=36.1km az=1.0.
ISC III 11 22 17 59.4–.68 36.9N–.10 143.79E–.09 35 4.3b 30 4-145
IDC III 11 22 17 54.1–.62 36.93N 143.77E 0 4.5,4.3 **¶16476656**
NEIC III 11 22 17 55.5–10.0 36.92N 143.74E 8–61 4.5,4.3
ISCJB III 11 22 17 57.4–.48 36.83N–.09 143.6E–.10 33 4.2b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 22 22 33.0–.47 39.11N–.05 143.13E–.06 16 4.7b 146 2-150
IDC III 11 22 22 30.8–.67 39.10N 142.98E 0 4.5,4.4 **¶602652239**
ISCJB III 11 22 22 31.5–.28 39.05N–.04 142.96E–.04 16 4.6b,4.4
MOS III 11 22 22 32.8–1.0 39.14N 142.92E 25 5.0b,4.4
JMA III 11 22 22 33.1–.20 39.16N 143.01E 23–3 4.7,4.4
NEIC III 11 22 22 35.3–2.3 39.14N 142.93E 26–16 4.9b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=149.1.
MOS Error ellipse: s-maj=9.0km s-min=5.8km az=96.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.5km az=149.0.
ISC III 11 22 28 35.3–.74 37.3N–.10 142.7E–.10 21 4.2b 29 4-95
IDC III 11 22 28 32.2–.76 37.35N 142.59E 0 4.0,3.8 **¶16425276**
ISCJB III 11 22 28 33.3–.51 37.34N–.08 142.65E–.08 21 4.1b,3.8
NEIC III 11 22 28 38.4–1.8 37.37N 142.51E 46–16 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=18.0km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=8.4km az=155.5.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=11.7km az=100.0.
IDC III 11 22 31 28.1–1.3 36.33N 142.63E 0 4.3,4.1
¶17194132
IDC Error ellipse: s-maj=42.5km s-min=23.5km az=77.0.
ISC III 11 22 33 12.1–1.1 37.0N–.20 143.5E–.20 35 3.9b 10 4-89
IDC III 11 22 33 06.5–1.1 37.02N 143.64E 0 4.1,4.0b **¶16476660**
ISCJB III 11 22 33 09.9–.95 37.0N–.10 143.5E–.20 33 4.0b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 22 33 44.0–1.0 37.6N–.20 144.22E–.09 35 4.2b 35 5-89
IDC III 11 22 33 36.7–.68 37.15N 144.26E 0 4.3,4.1 **¶17194133**
NEIC III 11 22 33 42.2–.51 37.21N 144.20E 35 4.3,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=14.7km az=178.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=8.2km az=174.0.
ISC III 11 22 35 19.1–2.6 37.1N–.50 143.5E–.10 35 4.0b 12 11-89
IDC III 11 22 35 20.8–5.2 36.92N 143.06E 72–47 4.0,3.9 **¶16476662**
ISC Event type ke.
IDC Error ellipse: s-maj=26.6km s-min=19.1km az=110.0.
ISC III 11 22 36 56.7–.75 37.13N–.06 143.85E–.05 29–5 4.9b,4.8s 303 5-150
IDC III 11 22 36 52.0–.44 37.06N 143.93E 0 4.8,4.7 **¶16308483**
ISCJB III 11 22 36 52.9–1.4 37.13N–.04 143.78E–.03 10–8 4.9b,4.7s
BJI III 11 22 36 53.9 37.45N 143.91E 22 5.1b,4.9b
NEIC III 11 22 36 57.5–1.7 37.08N 143.81E 32–12 5.0b,4.9b
MOS III 11 22 36 57.1–.95 37.47N 143.77E 29 5.2b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=11.3km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=169.9.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.3km az=136.0.
MOS Error ellipse: s-maj=8.1km s-min=5.2km az=107.5.
ISC III 11 22 40 19.2–.81 38.3N–.10 144.62E–.09 35 4.1b 29 5-87
IDC III 11 22 40 14.1–.94 38.24N 144.70E 0 4.3,4.1 **¶16476664**
ISCJB III 11 22 40 17.1–.62 38.24N–.10 144.56E–.08 33 4.1b,4.1
NEIC III 11 22 40 19.2–.47 38.25N 144.60E 35 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=18.8km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=7.8km az=162.8.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=6.4km az=161.0.
ISC III 11 22 40 36.5–.73 37.8N–.10 144.82E–.09 26 4.1b 48 5-119
IDC III 11 22 40 32.2–.68 37.73N 144.84E 0 4.2,4.1 **¶602652209**
ISCJB III 11 22 40 34.6–.45 37.75N–.08 144.75E–.06 26 4.0b,4.1
NEIC III 11 22 40 37.7–.35 37.76N 144.81E 35 4.0b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=16.1km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.1km az=170.7.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=167.0.
ISC III 11 22 41 55.0–.92 37.5N–.10 143.5E–.10 35 3.9b 16 4-75
IDC III 11 22 41 49.8–1.0 37.52N 143.56E 0 4.7s,4.7 **¶16442274**
ISCJB III 11 22 41 52.9–.71 37.52N–.09 143.6E–.10 33 4.0b,4.7
NEIC III 11 22 41 55.0–.51 37.50N 143.52E 35 4.0b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=33.9km s-min=19.8km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=12.8km az=2.1.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.4km az=97.0.
ISC III 11 22 42 58.8–.35 37.55N–.04 143.94E–.04 34–1 5.2s,5.1b 686 4-156
IDC III 11 22 42 53.8–.37 37.59N 143.90E 0 4.8,4.8 **¶16308484**
MOS III 11 22 42 57.8–.91 37.60N 143.83E 37 5.4b,4.8s
ISCJB III 11 22 42 57.5–.12 37.60N–.03 143.86E–.02 33 5.1s,5.0b
BJI III 11 22 42 59.6 38.09N 143.43E 27 5.4b,5.0
NEIC III 11 22 42 59.2–1.3 37.61N 143.81E 34–9 5.1b,5.0
JMA III 11 22 43 16.6–.10 39.45N 142.78E 40–3 5.2,5.0
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=9.7km az=138.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=101.5.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.2km az=159.8.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.9km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 11 22 49 39.8–.56 37.73N–.08 144.54E–.09 35 4.3b 51 5-119
IDC III 11 22 49 34.8–.54 37.82N 144.62E 0 4.4,4.2 **¶16425281**
NEIC III 11 22 49 36.0–3.7 37.81N 144.61E 7–22 4.4,4.2
ISCJB III 11 22 49 38.1–.39 37.80N–.07 144.48E–.07 33 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 22 50 11.7–.67 36.8N–.10 143.89E–.09 35 4.1b 35 2-89
IDC III 11 22 50 06.4–.78 36.75N 144.10E 0 4.4L,4.2 **¶17194141**
ISCJB III 11 22 50 09.9–.49 36.86N–.08 143.82E–.06 33 4.1b,4.2
NEIC III 11 22 50 11.7–.38 36.81N 143.94E 35 4.1b,4.2
JMA III 11 22 50 30.1–.20 37.61N 141.83E 23–3 4.3,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=19.2km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=12.1km s-min=6.8km az=167.7.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.4km az=158.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 22 51 17.9–.40 37.92N–.03 144.90E–.03 26–2 5.7b,5.1s 1454 3-162
NIED III 11 22 51 00 37.80N 144.60E 35 5.5W,5.1s **¶602652182**
ISCJB III 11 22 51 14.8–.76 37.88N–.02 144.92E–.02 15–5 5.6b,5.1s
MOS III 11 22 51 17.3–.92 37.90N 144.87E 30 5.8b,5.0s
BJI III 11 22 51 18.9 38.11N 144.52E 25 5.6b,5.4s
JMA III 11 22 51 19.4–.30 37.94N 144.64E 35 5.7,5.4s
NEIC III 11 22 51 19.9–.56 37.83N 144.83E 39–5 5.7b,5.4s
IDC III 11 22 51 19.1–3.3 37.82N 144.93E 33–25 5.1,4.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s269.00000°,δ75.00000°,λ-4.00000°. NP2:ϕ_s0.00000°,δ87.00000°,λ-165.00000°. $M_0$1.80000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=159.9.
MOS Error ellipse: s-maj=5.7km s-min=4.1km az=104.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=136.0.
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=104.0.
ISC III 11 22 54 26.4–.32 36.57N–.04 142.29E–.04 15 5.3b,5.3s 324 1-146
NIED III 11 22 54 00 36.50N 142.50E 8 5.1W,5.3s **¶600540496**
IDC III 11 22 54 23.9–.47 36.50N 142.42E 0 5.1,5.0
JMA III 11 22 54 25.0–.30 36.49N 142.54E 68 5.3,5.0
ISCJB III 11 22 54 25.1–.17 36.48N–.03 142.38E–.02 15 5.3s,5.2b
NEIC III 11 22 54 27.5–1.6 36.49N 142.31E 20–11 5.4b,5.2b
MOS III 11 22 54 28.4–.87 36.67N 142.31E 33 5.6b,5.2b
BJI III 11 22 54 29.3 36.58N 141.63E 20 5.5b,5.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ28.00000°,λ106.00000°. NP2:ϕ_s2.00000°,δ63.00000°,λ82.00000°. $M_0$4.41000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=11.8km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=161.5.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=121.0.
MOS Error ellipse: s-maj=8.8km s-min=6.0km az=106.6.
ISC III 11 23 02 31.6–1.6 37.0N–.20 142.8E–.20 25 3.9b 8 4-69
IDC III 11 23 02 27.3–1.7 37.12N 142.86E 0 3.9,3.8 **¶17194142**
ISCJB III 11 23 02 29.3–1.3 37.0N–.10 142.8E–.20 25 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 23 04 47.0–2.7 39.57N 143.17E 0 4.3L,4.2
¶16476674
IDC Error ellipse: s-maj=70.6km s-min=35.2km az=67.0.
ISC III 11 23 08 13.0–.89 37.9N–.10 144.1E–.10 35 4.2b 16 4-76
IDC III 11 23 08 07.7–.80 37.89N 144.20E 0 4.3,4.1 **¶16442276**
ISCJB III 11 23 08 10.8–.67 37.88N–.09 144.1E–.10 33 4.1b,4.1
NEIC III 11 23 08 14.4–1.3 37.90N 144.08E 49–11 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=18.5km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=10.6km az=143.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=7.6km az=120.0.
IDC III 11 23 09 52.9–7.1 38.02N 143.13E 0 4.5,4.2
¶17194151
IDC Error ellipse: s-maj=168.1km s-min=46.7km az=16.0.
ISC III 11 23 14 09.4–.74 36.8N–.10 143.4E–.10 35 4.2b 24 4-96
IDC III 11 23 14 04.1–.76 36.72N 143.46E 0 4.8,4.8s **¶16425287**
ISCJB III 11 23 14 07.3–.56 36.74N–.09 143.32E–.08 33 4.2b,4.8s
NEIC III 11 23 14 07.7–3.8 36.73N 143.38E 24–26 4.2b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=17.9km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=8.8km az=160.9.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=8.8km az=130.0.
ISC III 11 23 14 24.1–1.1 37.9N–.10 142.8E–.10 18 4.1b 12 4-83
IDC III 11 23 14 21.4–.92 37.78N 142.99E 0 4.3,4.0 **¶17194154**
ISCJB III 11 23 14 22.2–.76 37.8N–.10 142.9E–.10 18 4.0b,4.0
NEIC III 11 23 14 26.8–.79 37.95N 142.71E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=20.9km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=11.0km az=42.9.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=11.3km az=128.0.
ISC III 11 23 16 21.6–1.2 37.5N–.20 143.9E–.20 35 4.1b 7 13-74
IDC III 11 23 16 16.4–1.1 37.54N 143.99E 0 4.3,4.1 **¶17194155**
ISCJB III 11 23 16 19.4–1.0 37.5N–.20 143.9E–.20 33 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 11 23 19 02.0–1.1 38.4N–.20 144.2E–.10 35 4.2b 21 5-90
IDC III 11 23 18 56.4–1.6 38.40N 144.33E 0 4.2,4.1 **¶16442277**
ISCJB III 11 23 19 00.5–.88 38.5N–.10 144.1E–.10 35 4.1b,4.1
NEIC III 11 23 19 02.2–.69 38.46N 144.19E 35 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=39.7km s-min=19.5km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=19.3km s-min=10.1km az=154.8.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.2km az=153.0.
ISC III 11 23 21 20.0–.35 39.08N–.04 143.53E–.05 20 4.8b 282 2-144
MOS III 11 23 21 19.9–.99 39.15N 143.41E 27 5.0b **¶602652131**
ISCJB III 11 23 21 19.2–.20 39.12N–.03 143.34E–.03 20 5.0s,4.7b
BJI III 11 23 21 19.6 39.21N 143.18E 17 5.2b,5.0s
JMA III 11 23 21 20.6–.10 39.17N 143.38E 31–4 5.1,5.0s
NEIC III 11 23 21 21.3–1.3 39.08N 143.33E 24–9 4.9b,5.0s
IDC III 11 23 21 22.6–2.8 39.09N 143.39E 35–22 4.6,4.5
ISC Event type ke.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=90.6.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=145.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=139.0.
IDC Error ellipse: s-maj=12.2km s-min=9.6km az=125.0.
ISC III 11 23 24 09.4–.97 37.17N–.05 142.60E–.06 24–6 4.4b 90 1-146
NIED III 11 23 24 00 37.40N 142.30E 17 4.5W **¶602652128**
IDC III 11 23 24 05.5–.53 37.17N 142.69E 0 4.5s,4.5
ISCJB III 11 23 24 08.6–1.5 37.25N–.04 142.59E–.04 28–10 4.5s,4.3b
NEIC III 11 23 24 09.6–1.7 37.11N 142.73E 29–12 4.5s,4.3b
JMA III 11 23 24 09.3–.30 37.45N 142.30E 9–3 4.8,4.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s288.00000°,δ62.00000°,λ-152.00000°. NP2:ϕ_s183.00000°,δ65.00000°,λ-31.00000°. $M_0$5.61000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=11.6km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.5km az=147.4.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 23 26 16.3–.48 36.87N–.07 142.63E–.08 9 4.6b 49 4-91
ISCJB III 11 23 26 14.3–.32 36.89N–.05 142.65E–.06 9 4.5b **¶16476687**
IDC III 11 23 26 15.3–1.1 36.78N 142.65E 0 4.6,4.5
NEIC III 11 23 26 20.2–.45 36.83N 142.50E 35 4.6,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=6.2km az=43.9.
IDC Error ellipse: s-maj=27.6km s-min=22.6km az=74.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.6km az=115.0.
ISC III 11 23 26 16.4–.80 38.4N–.10 143.36E–.09 15 4.4b 51 4-85
IDC III 11 23 26 14.4–.81 38.50N 143.41E 0 4.4,4.3 **¶16308489**
NEIC III 11 23 26 14.9–4.9 38.40N 143.35E 5–29 4.4,4.3
ISCJB III 11 23 26 14.6–.56 38.33N–.09 143.38E–.08 15 4.4b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 11 23 29 43.1–.40 38.80N 143.01E 0 4.4

¶602652124

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 23 31 51.0–.57 39.02N–.08 143.04E–.06 16 4.6b 88 2-117
IDC III 11 23 31 47.9–.60 38.96N 143.12E 0 4.5,4.4 **¶602652113**
JMA III 11 23 31 50.8–.20 39.28N 143.07E 39 4.8,4.4
ISCJB III 11 23 31 50.1–.40 39.10N–.06 143.00E–.05 16 4.5b,4.4
NEIC III 11 23 31 53.2–2.5 39.03N 143.01E 28–17 4.7b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=12.3km az=167.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=4.3km az=160.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.2km az=159.0.
JMA III 11 23 33 58.8–.30 39.90N 143.55E 54 4.0

¶602652110

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 11 23 35 29.5–.60 37.41N–.07 142.71E–.07 21 4.2b 43 1-146
IDC III 11 23 35 26.6–.62 37.51N 142.68E 0 4.2,4.1 **¶602652108**
ISCJB III 11 23 35 27.8–.47 37.43N–.06 142.73E–.05 21 4.1b,4.1
JMA III 11 23 35 28.1–.30 37.49N 142.66E 12 4.7,4.1
NEIC III 11 23 35 31.9–.43 37.54N 142.66E 35 4.7,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=15.5km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.0km az=168.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.3km az=148.0.
ISC III 11 23 36 16.3–.73 39.4N–.10 143.91E–.09 11 4.3b 52 3-117
IDC III 11 23 36 14.7–.87 39.37N 143.88E 0 4.4,4.2 **¶602652106**
ISCJB III 11 23 36 14.9–.56 39.40N–.08 143.86E–.08 11 4.2b,4.2
NEIC III 11 23 36 18.1–1.7 39.39N 143.88E 21–12 4.2b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=14.2km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.8km az=144.1.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.2km az=136.0.
ISC III 11 23 37 39.1–.53 37.85N–.08 142.58E–.06 14 4.3b 42 1-84
NIED III 11 23 37 00 38.00N 142.80E 20 4.2W **¶16442236**
IDC III 11 23 37 37.0–.83 37.90N 142.70E 0 4.3,4.3
ISCJB III 11 23 37 37.3–.39 37.86N–.06 142.76E–.06 14 4.4b,4.3
JMA III 11 23 37 40.3–.40 37.85N 142.68E 22 4.8,4.3
NEIC III 11 23 37 42.3–.27 37.88N 142.57E 35 4.8,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ54.00000°,λ-135.00000°. NP2:ϕ_s223.00000°,δ56.00000°,λ-46.00000°. $M_0$2.38000×10^{15}
IDC Error ellipse: s-maj=25.4km s-min=15.8km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.0km az=148.5.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.6km az=141.0.
ISC III 11 23 40 11.5–.32 37.10N–.05 143.54E–.05 26–1 5.0b 423 2-159
NIED III 11 23 40 00 37.20N 143.20E 8 4.8W **¶16461354**
IDC III 11 23 40 06.8–.41 37.01N 143.68E 0 4.7,4.7
MOS III 11 23 40 10.9–.94 37.22N 143.52E 27 5.1b,4.7
BJI III 11 23 40 10.2 37.40N 143.47E 18 5.3b,4.9s
JMA III 11 23 40 10.4–.40 37.20N 143.42E 27 5.2,4.9s
ISCJB III 11 23 40 11.1–.17 37.04N–.04 143.49E–.02 33 4.9b,4.9s
NEIC III 11 23 40 11.4–.35 37.06N 143.52E 24–2 5.0b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ25.00000°,λ-68.00000°. NP2:ϕ_s191.00000°,δ67.00000°,λ-100.00000°. $M_0$1.81000×10^{16}
IDC Error ellipse: s-maj=11.4km s-min=10.1km az=140.0.
MOS Error ellipse: s-maj=6.9km s-min=5.1km az=108.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.4km az=165.8.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=152.0.
ISC III 11 23 44 04.5–.92 37.0N–.10 143.8E–.10 35 4.1b 31 5-84
IDC III 11 23 43 59.3–.88 37.08N 143.87E 0 4.3,4.1 **¶16425297**
ISCJB III 11 23 44 02.4–.64 36.99N–.08 143.78E–.09 33 4.1b,4.1
NEIC III 11 23 44 04.7–1.4 37.00N 143.79E 36–11 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=17.2km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.6km az=138.3.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=7.7km az=123.0.
ISC III 11 23 44 32.3–.82 39.71N–.10 143.5E–.10 11 4.1b 21 2-116
IDC III 11 23 44 30.4–.81 39.72N 143.44E 0 4.3,4.1 **¶602652097**
ISCJB III 11 23 44 30.5–.64 39.67N–.08 143.4E–.10 11 4.1b,4.1
NEIC III 11 23 44 35.8–2.4 39.72N 143.39E 35–16 4.1b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=20.0km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=10.3km az=35.6.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.8km az=116.0.
ISC III 11 23 47 57.9–.67 37.2N–.10 143.99E–.09 35 4.0b 32 3-84
IDC III 11 23 47 53.0–.97 37.26N 143.95E 0 4.1,3.9 **¶16442279**
ISCJB III 11 23 47 56.1–.46 37.20N–.08 143.89E–.07 33 4.2b,3.9
NEIC III 11 23 47 58.0–.47 37.23N 143.87E 35 4.2b,3.9
JMA III 11 23 48 01.2–.20 38.04N 142.65E 25 3.8,3.9
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=20.1km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=8.3km az=166.4.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=8.7km az=162.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 11 23 50 55.0–.67 37.72N–.10 143.85E–.09 35 4.2b 34 4-153
IDC III 11 23 50 49.6–.62 37.66N 143.89E 0 4.3,4.1 **¶16425301**
ISCJB III 11 23 50 52.8–.52 37.67N–.08 143.84E–.07 33 4.1b,4.1
NEIC III 11 23 50 54.3–2.9 37.71N 143.85E 29–20 4.1b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=14.8km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.8km az=156.1.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.2km az=129.0.
ISC III 11 23 52 09.5–.53 39.58N–.08 143.20E–.08 18 4.2b 50 2-145
IDC III 11 23 52 06.6–.52 39.59N 143.16E 0 4.4,4.3 **¶602652075**
ISCJB III 11 23 52 07.8–.41 39.62N–.06 143.21E–.07 18 4.2b,4.3
JMA III 11 23 52 08.4–.20 39.51N 143.20E 14–3 4.6,4.3
NEIC III 11 23 52 12.8–.74 39.61N 143.15E 44–6 4.6,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=14.2km s-min=12.2km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=5.5km az=144.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.9km az=130.0.
ISC III 11 23 52 48.6–.53 37.52N–.09 144.40E–.08 35 4.5b 93 5-144
IDC III 11 23 52 43.3–.52 37.52N 144.43E 0 4.6,4.5 **¶16476689**
ISCJB III 11 23 52 46.9–.35 37.48N–.07 144.36E–.05 33 4.5b,4.5
NEIC III 11 23 52 47.2–2.2 37.58N 144.38E 24–15 4.5b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.2km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=5.8km az=163.5.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.7km az=149.0.
ISC III 11 23 54 09.1–.60 37.2N–.10 144.5E–.10 35 4.6b 37 5-119
IDC III 11 23 54 05.5–1.6 37.66N 144.40E 0 4.9,4.7 **¶16425303**
ISCJB III 11 23 54 07.2–.41 37.11N–.08 144.37E–.08 33 4.6b,4.7
NEIC III 11 23 54 08.4–.55 37.25N 144.29E 35 4.4b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=55.6km s-min=20.8km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=9.4km az=169.3.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=12.1km az=146.0.
ISC III 11 23 56 26.1–.50 37.74N–.09 143.05E–.07 24 4.7b 59 2-145
IDC III 11 23 56 22.2–.61 37.72N 143.03E 0 4.8,4.7 **¶602652070**
ISCJB III 11 23 56 24.3–.41 37.71N–.07 143.02E–.07 24 4.6b,4.3s
NEIC III 11 23 56 25.7–2.5 37.73N 143.01E 22–17 4.6b,4.3s
JMA III 11 23 56 40.8–.30 37.61N 142.23E 28 4.6,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=17.2km s-min=15.8km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=6.7km az=151.3.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=127.0.

JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISC III 11 23 58 03.2–.33 38.47N–.04 143.58E–.04 32–2 5.2b,5.1s 873 2-164
IDC III 11 23 57 57.9–.41 38.32N 143.65E 0 4.8,4.8 **¶16310140**
ISCJB III 11 23 57 59.4–1.1 38.45N–.03 143.58E–.02 15–7 5.1s,5.1b
MOS III 11 23 58 01.3–1.1 38.43N 143.54E 29 5.6b,5.0s
BJI III 11 23 58 01.5 38.55N 143.33E 19 5.6s,5.4
NEIC III 11 23 58 03.4–.30 38.40N 143.53E 31–1 5.3b,5.1s
JMA III 11 23 58 03.6–.40 38.52N 143.43E 57 4.8,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=10.3km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.9km az=159.7.
MOS Error ellipse: s-maj=7.6km s-min=5.6km az=86.4.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=152.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 12 00 04 05.6–.62 35.96N–.08 142.10E–.08 23 4.1b 36 1-147
ISCJB III 12 00 04 03.9–.49 35.98N–.06 142.14E–.06 23 4.0b,3.6s **¶16476705**
JMA III 12 00 04 04.5–.50 36.11N 142.08E 79 4.2,3.6s
IDC III 12 00 04 06.1–.67 35.91N 142.11E 28–4 4.1,4.1
NEIC III 12 00 04 08.3–1.6 35.89N 142.02E 46–14 4.2b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.3km az=145.7.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=14.2km s-min=13.4km az=159.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=10.9km az=157.0.
ISC III 12 00 04 50.8–.61 37.01N–.07 142.27E–.05 9 4.4b 39 1-90
ISCJB III 12 00 04 48.9–.52 37.06N–.06 142.34E–.05 9 4.2b **¶17194167**
JMA III 12 00 04 51.6–.10 37.00N 142.22E 15–2 4.9
IDC III 12 00 04 53.6–.79 37.10N 142.31E 28–6 4.3,4.3
NEIC III 12 00 04 55.6–.89 37.09N 142.25E 46–7 4.5b,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=4.9km az=165.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=15.0km az=116.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.5km az=125.0.
IDC III 12 00 06 39.4–1.3 37.42N 144.14E 0 4.4,4.3L

¶17194169

IDC Error ellipse: s-maj=37.0km s-min=27.1km az=91.0.
ISC III 12 00 07 49.6–.55 37.09N–.06 142.46E–.06 9 4.2b 40 1-146
ISCJB III 12 00 07 47.8–.45 37.11N–.06 142.60E–.05 9 4.1b **¶16425322**
IDC III 12 00 07 47.9–.58 37.13N 142.89E 0 4.3,4.1
NEIC III 12 00 07 53.1–.48 37.12N 142.77E 35 4.4b,4.1
JMA III 12 00 07 53.2–.30 37.01N 142.14E 12–4 4.4,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.2km az=173.6.
IDC Error ellipse: s-maj=16.0km s-min=14.5km az=133.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.0km az=144.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 00 09 27.9–.67 39.51N–.08 143.45E–.10 11 4.2b 37 3-84
ISCJB III 12 00 09 25.9–.48 39.46N–.06 143.46E–.08 11 4.1b **¶16425323**
IDC III 12 00 09 26.0–.65 39.49N 143.37E 0 4.3,4.1
JMA III 12 00 09 28.7–.20 39.44N 143.38E 30 4.8,4.1
NEIC III 12 00 09 31.5–1.0 39.53N 143.38E 35–8 4.2b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=7.1km az=38.8.
IDC Error ellipse: s-maj=18.0km s-min=15.4km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.6km az=131.0.
ISC III 12 00 16 03.1–.47 37.87N–.06 142.55E–.05 14 4.0b 58 1-89
ISCJB III 12 00 16 00.6–.43 37.87N–.05 142.66E–.06 14 4.1b **¶16442286**
NIED III 12 00 16 00 37.60N 142.10E 38 4.3W
IDC III 12 00 16 04.5–.54 37.87N 142.47E 26–3 3.9,3.9
NEIC III 12 00 16 05.7–3.3 37.88N 142.53E 35–23 4.2b,3.9
JMA III 12 00 16 16.0–.30 37.67N 142.05E 22 4.4,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.5km az=137.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ86.00000°,λ3.00000°. NP2:ϕ_s72.00000°,δ87.00000°,λ176.00000°. $M_0$3.67000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=11.9km az=101.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.2km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 12 00 16 15.6–.79 37.6N–.10 142.3E–.10 24 4.1b 22 3-89
IDC III 12 00 16 11.8–1.2 37.59N 142.29E 0 4.3,4.1 **¶602656954**
ISCJB III 12 00 16 13.9–.66 37.62N–.09 142.2E–.10 24 4.0b,4.1
NEIC III 12 00 16 16.6–.86 37.53N 142.18E 35 4.1b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=17.6km az=165.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=10.1km az=141.0.
NEIC Event type se. Error ellipse: s-maj=20.4km s-min=10.1km az=159.0.
ISC III 12 00 18 39.0–.82 37.8N–.10 142.4E–.10 35 3.9b 21 1-89
ISCJB III 12 00 18 36.8–.69 37.8N–.10 142.5E–.10 35 3.9b **¶602656947**
JMA III 12 00 18 37.8–.70 37.84N 142.36E 27 4.3
IDC III 12 00 18 39.7–.89 37.79N 142.42E 42–6 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=11.8km az=5.7.
JMA Error ellipse: s-maj=2.2km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=18.2km az=69.0.
ISC III 12 00 21 10.0–.98 39.4N–.20 144.8E–.20 38 4.1b 10 11-84
IDC III 12 00 21 04.3–.86 39.35N 144.76E 0 4.2,4.0 **¶603049526**
ISCJB III 12 00 21 08.1–.78 39.3N–.10 144.7E–.20 38 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 00 21 32.0–.53 38.89N–.07 144.34E–.07 19 4.9b,4.5s 112 5-148
BJI III 12 00 21 20.9 36.62N 143.42E 16 5.4b,4.9s **¶17194180**
NEIC III 12 00 21 24.4–.92 36.56N 143.60E 23–6 5.0b,4.9s
IDC III 12 00 21 29.5–.62 38.75N 144.39E 0 4.6,4.4
ISCJB III 12 00 21 31.9–.39 38.93N–.07 144.16E–.05 19 4.7b,4.5s
MOS III 12 00 21 35.5–1.1 39.19N 144.28E 33 4.8b,4.5s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.0km az=167.0.
IDC Error ellipse: s-maj=17.5km s-min=15.1km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=5.4km az=1.6.
MOS Error ellipse: s-maj=9.7km s-min=5.8km az=93.6.
ISC III 12 00 21 32.0–.64 36.53N–.05 142.15E–.06 30–4 4.4b 145 1-146
NIED III 12 00 21 00 36.70N 141.90E 35 4.5W **¶16310108**
ISCJB III 12 00 21 30.7–1.5 36.65N–.04 142.18E–.04 32–10 5.0s,4.4b
NEIC III 12 00 21 31.6–1.0 36.65N 142.28E 25–7 4.3b,4.4b
JMA III 12 00 21 32.9–.20 36.68N 141.94E 53–5 4.3,4.4b
IDC III 12 00 21 33.1–.72 36.64N 142.09E 26–4 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ49.00000°,λ-158.00000°. NP2:ϕ_s143.00000°,δ73.00000°,λ-43.00000°. $M_0$5.51000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.6km az=30.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.9km az=153.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=13.0km az=77.0.
ISC III 12 00 24 07.8–.94 38.8N–.10 144.3E–.10 29 4.1b 12 7-72
IDC III 12 00 24 03.0–.83 38.73N 144.24E 0 4.3,4.0 **¶603049527**
ISCJB III 12 00 24 05.4–.74 38.8N–.10 144.2E–.10 29 4.3s,4.1b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 00 24 55.2–.86 37.4N–.10 144.0E–.30 35 4.3b 25 5-118
IDC III 12 00 24 49.9–.82 37.35N 144.18E 0 4.5,4.3 **¶16476720**
ISCJB III 12 00 24 52.7–.72 37.40N–.09 143.7E–.30 33 4.3b,4.3
NEIC III 12 00 24 55.4–.34 37.40N 144.05E 35 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=55.6km s-min=15.1km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=30.6km s-min=12.0km az=8.6.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.8km az=104.0.
ISC III 12 00 30 54.3–.96 38.8N–.10 144.3E–.10 19 4.0b 18 3-75
IDC III 12 00 30 51.2–.88 38.79N 144.29E 0 4.1,4.0 **¶16445715**
ISCJB III 12 00 30 52.2–.73 38.74N–.10 144.2E–.10 19 4.0b,4.0

NEIC III 12 00 30 56.5–.60 38.82N 144.20E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=20.1km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=13.6km az=154.7.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.7km az=79.0.
ISC III 12 00 32 05.4–.66 36.8N–.10 142.02E–.08 19 4.0b 30 1-146
IDC III 12 00 32 02.5–.81 36.89N 142.17E 0 4.1,4.0 **¶16442334**
ISCJB III 12 00 32 03.4–.51 36.82N–.08 142.08E–.07 19 4.0b,4.0
NEIC III 12 00 32 07.7–.45 36.85N 142.04E 35 4.2b,4.0
JMA III 12 00 32 08.8–.20 36.66N 141.48E 26–2 3.8,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=20.1km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.8km az=1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.5km az=168.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 00 33 07.4–2.9 36.1N–.40 142.1E–.20 23 4.1b 9 3-75
IDC III 12 00 33 03.0–4.8 36.16N 142.24E 0 4.2,4.2 **¶17194187**
ISC Event type ke.
IDC Error ellipse: s-maj=104.7km s-min=60.0km az=171.0.
ISC III 12 00 39 35.6–.53 37.31N–.05 142.60E–.05 19–1 5.0b,4.7s 316 1-146
IDC III 12 00 39 32.1–.45 37.19N 142.66E 0 4.7,4.6 **¶602656910**
ISCJB III 12 00 39 32.7–1.2 37.26N–.04 142.45E–.03 8–7 4.9b,4.7s
BJI III 12 00 39 35.0 37.31N 142.38E 23 5.4b,5.1s
MOS III 12 00 39 37.7–1.1 37.57N 142.48E 33 5.3b,5.1s
NEIC III 12 00 39 38.0–.24 37.21N 142.50E 35 5.0b,5.1s
JMA III 12 00 39 47.6–.10 36.86N 141.10E 50–1 4.7,5.1s
ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.4km az=161.9.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=106.5.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.0km az=152.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 00 44 26.9–2.6 38.3N–.40 144.4E–.20 29 4.3b 12 11-75
IDC III 12 00 44 21.7–2.8 38.12N 144.43E 0 4.5,4.5s **¶16445716**
NEIC III 12 00 44 27.6–1.4 38.24N 144.39E 35 4.3b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=73.9km s-min=22.4km az=175.0.
NEIC Event type se. Error ellipse: s-maj=32.4km s-min=11.6km az=178.0.
ISC III 12 00 51 21.7–.83 38.1N–.10 144.37E–.10 35 4.1b 35 5-88
IDC III 12 00 51 16.5–.95 38.09N 144.39E 0 4.1,3.9 **¶16442335**
ISCJB III 12 00 51 19.8–.61 38.1N–.10 144.27E–.08 33 4.1b,3.9
NEIC III 12 00 51 21.8–.38 38.09N 144.32E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=20.8km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=9.0km az=174.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.0km az=168.0.
ISC III 12 00 53 49.9–1.0 37.8N–.10 144.5E–.20 35 4.0b 13 4-62
IDC III 12 00 53 44.7–.90 37.77N 144.42E 0 4.1,4.0 **¶16445718**
ISCJB III 12 00 53 47.5–.77 37.7N–.10 144.5E–.10 33 4.0b,4.0
NEIC III 12 00 53 50.9–1.6 37.78N 144.44E 44–14 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=19.6km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=12.8km az=35.1.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=9.7km az=119.0.
ISC III 12 00 55 04.9–.65 37.90N–.09 142.76E–.07 18 4.0b 35 2-89
ISCJB III 12 00 55 02.8–.54 37.92N–.07 142.84E–.06 18 3.9b **¶16442294**
JMA III 12 00 55 04.1–.60 37.90N 142.84E 34 4.2
IDC III 12 00 55 06.7–.77 37.95N 142.70E 31–5 3.9,3.9
NEIC III 12 00 55 08.5–1.5 37.97N 142.66E 46–13 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.3km az=170.5.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=16.9km az=115.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=11.1km az=93.0.
ISC III 12 00 56 54.3–.66 38.79N–.08 143.0E–.10 16–3 4.1b 32 3-88
IDC III 12 00 56 55.0–.61 38.82N 142.87E 20–3 4.0,3.9 **¶602656867**
NEIC III 12 00 56 57.5–.96 38.83N 142.92E 39–8 4.2b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=17.3km s-min=13.1km az=95.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.0km az=118.0.
ISC III 12 00 59 44.0–.65 37.8N–.10 144.82E–.09 35 4.3b 48 4-119
IDC III 12 00 59 38.3–.66 37.67N 144.85E 0 4.4,4.2 **¶16442297**
ISCJB III 12 00 59 42.2–.46 37.71N–.08 144.76E–.07 33 4.3b,4.2
NEIC III 12 00 59 44.2–1.1 37.72N 144.78E 37–9 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=15.2km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=7.4km az=162.1.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.9km az=134.0.
ISC III 12 01 01 47.0–2.0 37.1N–.20 143.0E–.30 35 3.8b 6 4-61
IDC III 12 01 01 40.8–2.4 37.17N 143.25E 0 3.9,3.8 **¶17194197**
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=23.0km az=62.0.
ISC III 12 01 10 53.6–.59 37.46N–.08 142.48E–.09 21 4.4b 52 4-146
IDC III 12 01 10 50.2–.62 37.45N 142.44E 0 4.7s,4.7 **¶17194198**
ISCJB III 12 01 10 51.7–.38 37.43N–.05 142.46E–.07 21 4.3b,4.7
NEIC III 12 01 10 53.8–2.6 37.48N 142.43E 22–18 4.5b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=14.5km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.9km az=39.9.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.5km az=134.0.
ISC III 12 01 21 36.5–2.0 36.37N–.10 142.1E–.20 19 4.2b 7 3-75
IDC III 12 01 21 32.9–3.0 36.40N 142.19E 0 4.9,4.9s **¶17194201**
ISCJB III 12 01 21 34.7–1.9 36.36N–.09 142.0E–.30 19 4.9s,4.2b
ISC Event type ke.
ISCJB Event type ke.
IDC III 12 01 22 55.7–2.4 35.94N 142.95E 0 4.3,4.3
¶17194202
IDC Error ellipse: s-maj=60.8km s-min=25.2km az=73.0.
IDC III 12 01 23 37.5–5.8 35.88N 142.78E 0 4.5,4.5s
¶16476743
IDC Error ellipse: s-maj=129.6km s-min=41.3km az=106.0.
ISC III 12 01 24 08.4–.56 37.69N–.07 142.20E–.07 21 4.5b 62 1-89
IDC III 12 01 24 04.5–.66 37.72N 142.25E 0 4.5,4.3 **¶16476741**
ISCJB III 12 01 24 06.1–.39 37.71N–.05 142.29E–.06 21 4.5b,4.3
NEIC III 12 01 24 08.7–2.3 37.74N 142.27E 27–16 4.7b,4.3
JMA III 12 01 24 09.3–.30 37.71N 142.04E 17 5.0,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=14.7km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=42.5.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.2km az=94.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 12 01 28 29.4–.64 39.8N–.10 143.33E–.09 6 4.6b 45 5-150
ISCJB III 12 01 28 27.7–.42 39.77N–.07 143.24E–.08 6 7.3s,4.5b **¶16442319**
IDC III 12 01 28 28.7–.70 39.81N 143.21E 0 4.5,4.3
NEIC III 12 01 28 31.5–3.5 39.80N 143.19E 18–22 4.7b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=7.3km az=143.6.
IDC Error ellipse: s-maj=18.4km s-min=16.0km az=129.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=137.0.
ISC III 12 01 29 20.6–.64 36.90N–.09 143.6E–.10 35 4.5b 21 4-145
IDC III 12 01 29 16.5–1.0 36.93N 143.73E 0 4.4,4.3 **¶16442320**
ISCJB III 12 01 29 19.0–.50 36.82N–.06 143.5E–.10 33 4.4b,4.3
NEIC III 12 01 29 21.0–.41 36.98N 143.59E 35 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=44.0km s-min=19.9km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.0km az=28.1.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.7km az=111.0.
ISC III 12 01 36 24.0–.51 36.57N–.07 142.26E–.07 15 5.0b 58 1-151
ISCJB III 12 01 36 22.1–.33 36.53N–.05 142.31E–.05 15 4.9b **¶16442323**
IDC III 12 01 36 22.4–.86 36.69N 142.27E 0 4.8,4.8
NEIC III 12 01 36 24.6–2.4 36.53N 142.30E 20–17 5.2b,4.8

JMA III 12 01 36 24.2–.30 36.72N 142.08E 10 5.5,4.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.8km az=155.9.
IDC Error ellipse: s-maj=22.9km s-min=14.3km az=156.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.7km az=166.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 01 40 45.0–.95 36.9N–.20 143.0E–.10 25 3.9b 8 12-89
IDC III 12 01 40 41.1–.85 36.93N 143.03E 0 4.0,3.8 **¶17194208**
ISCJB III 12 01 40 42.9–.79 36.9N–.10 143.0E–.20 25 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 01 41 25.3–1.1 38.0N–.10 142.6E–.20 14 3.8b 8 4-62
ISCJB III 12 01 41 23.1–.95 37.9N–.10 142.6E–.20 14 3.8b **¶17194211**
IDC III 12 01 41 23.1–1.1 37.98N 142.54E 0 4.6L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=14.9km az=173.4.
IDC Error ellipse: s-maj=30.7km s-min=20.2km az=80.0.
ISC III 12 01 42 40.9–.62 39.22N–.09 143.65E–.09 20 4.2b 45 3-141
IDC III 12 01 42 38.1–.70 39.24N 143.59E 0 4.2,4.0 **¶16442324**
NEIC III 12 01 42 39.1–3.2 39.24N 143.63E 8–19 4.7b,4.0
ISCJB III 12 01 42 39.1–.43 39.24N–.06 143.60E–.07 20 4.2b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 01 46 07.9–.85 37.2N–.20 144.5E–.20 26 4.5b 24 23-88
IDC III 12 01 46 04.0–.70 37.23N 144.52E 0 4.6,4.3 **¶16310144**
ISCJB III 12 01 46 06.4–.57 37.2N–.10 144.5E–.10 26 4.4b,4.3
NEIC III 12 01 46 09.3–.46 37.26N 144.37E 35 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=17.6km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=14.6km az=43.4.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=11.5km az=128.0.
ISC III 12 01 47 16.2–.38 37.59N–.03 142.75E–.03 25–2 6.5s,6.1b 2183 2-160
NIED III 12 01 47 00 37.50N 142.80E 8 6.4W,6.1b **¶602707301**
ISCJB III 12 01 47 11.6–.66 37.61N–.02 142.75E–.01 4–4 6.6s,6.0b
JMA III 12 01 47 12.6–.30 37.48N 142.75E 0 6.8,6.0b
IDC III 12 01 47 12.1–.30 37.60N 142.76E 0 6.7,6.7s
BJI III 12 01 47 13.9 37.65N 142.65E 20 6.8s,6.7b
MOS III 12 01 47 14.3–1.4 37.67N 142.90E 33 6.7s,6.3b
NEIC III 12 01 47 15.4–.08 37.59N 142.65E 20 6.5W,6.5W
GCMT III 12 01 47 15.4–.10 37.57N 142.84E 14–0 6.5W,6.5W
NEIC III 12 01 47 16.0–.00 37.39N 143.28E 15 6.5W,6.5W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ31.00000°,λ-127.00000°. NP2:ϕ_s52.00000°,δ65.00000°,λ-70.00000°. $M_0$4.74000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=158.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=10.0km s-min=8.2km az=96.0.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=92.5.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=143.0. Recorded [3 JMA] in Fukushima, Ibaraki, Iwate, Miyagi, Nagano and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s80 Moment tensor: Scale 10^{18}Nm; M_{rr}-3.97 $M_{\theta\theta}$0.66 $M_{\phi\phi}$3.31 $M_{r\theta}$-3.47 $M_{\theta\phi}$1.64 $M_{\phi r}$-3.09 Best double couple: NP1:ϕ_s42.00000°,δ70.00000°,λ-78.00000°. NP2: ϕ_s191.00000°,δ23.00000°,λ-119.00000°. Principal axes: T 6.0300,Plg24.0000° ,Azm123.0000°; N 0.2400,Plg11.0000°,Azm218.0000°; P -6.2700,Plg63.0000° ,Azm331.0000° $M_0$6.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ15.00000°,λ-90.00000°. NP2: ϕ_s45.00000°,δ75.00000°,λ-90.00000°. Principal axes: T Plg30.0000°,Azm135.0000° ; N Plg0.0000°,Azm0.0000°; P Plg60.0000°,Azm315.0000°
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s138,c298; s145,c388;Duration: 4$\hat{s}$3 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.95±.04 $M_{\theta\theta}$1.21±.03; $M_{\phi\phi}$3.74±.03; $M_{r\theta}$-3.62±.10; $M_{\theta\phi}$2.37±.02; $M_{\phi r}$-2.70±.09; Best double couple: NP1:ϕ_s45.00000°,δ66.00000°,λ-78.00000°. NP2:ϕ_s197.00000° ,δ27.00000°,λ-116.00000°. Principal axes: T 6.7140,Plg20.0000°,Azm126.0000° ; N 0.1330,Plg11.0000°,Azm220.0000°; P -6.8470,Plg67.0000°,Azm338.0000° $M_0$6.78100×10^{18}
NEIC Event type se. Moment Tensor Solution. s3 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.72 $M_{\theta\theta}$2.40 $M_{\phi\phi}$3.33 $M_{r\theta}$-3.01 $M_{\theta\phi}$1.02 $M_{\phi r}$-2.20 Best double couple: NP1:ϕ_s45.00000° ,δ64.00000°,λ-83.00000°. NP2:ϕ_s211.00000°,δ27.00000°,λ-102.00000°. Principal axes: T 5.1500,Plg18.0000°,Azm130.0000°; N 1.8800,Plg5.0000°,Azm222.0000° ; P -7.0300,Plg70.0000°,Azm328.0000° $M_0$6.30000×10^{18}
ISC III 12 01 51 58.1–1.1 37.8N–.20 144.6E–.20 35 4.4b 7 43-75
IDC III 12 01 51 52.8–.89 37.77N 144.61E 0 4.7,4.5 **¶16476756**
ISCJB III 12 01 51 56.0–.87 37.7N–.20 144.5E–.20 33 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 01 52 40.5–.61 38.62N–.07 143.1E–.10 23 4.6b 28 3-150
IDC III 12 01 52 37.7–.78 38.62N 143.21E 0 4.7,4.4 **¶17194214**
ISCJB III 12 01 52 38.6–.45 38.60N–.07 143.07E–.08 23 4.6b,4.4
NEIC III 12 01 52 40.0–3.5 38.66N 143.09E 18–22 4.9b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=16.7km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.4km az=138.5.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.2km az=114.0.
ISC III 12 01 56 17.1–.52 36.63N–.07 142.07E–.06 19 4.5b 48 3-152
IDC III 12 01 56 14.6–.68 36.78N 141.99E 0 4.4,4.3b **¶16442326**
ISCJB III 12 01 56 15.2–.35 36.62N–.05 142.05E–.05 19 4.4b,4.3b
NEIC III 12 01 56 18.7–2.9 36.64N 142.01E 30–21 4.7b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=14.7km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.5km az=151.2.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=8.0km az=203.0.
ISC III 12 01 57 01.7–1.5 36.7N–.10 142.2E–.10 9 4.2b 9 3-80
ISCJB III 12 01 57 00.1–1.2 36.62N–.09 142.2E–.10 9 4.1b **¶17194218**
IDC III 12 01 57 00.7–5.6 36.86N 142.34E 0 4.2,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=10.8km az=31.9.
IDC Error ellipse: s-maj=131.3km s-min=47.5km az=157.0.
ISC III 12 01 58 38.1–.67 37.36N–.08 142.80E–.08 24 4.3b 30 2-89
IDC III 12 01 58 35.0–2.6 37.44N 142.77E 0 4.3,4.1 **¶16442336**
ISCJB III 12 01 58 36.1–.53 37.35N–.07 142.88E–.10 24 4.2b,4.1
NEIC III 12 01 58 37.4–4.3 37.42N 142.79E 17–26 4.5b,4.1
JMA III 12 01 58 55.4–.20 36.39N 141.58E 75–3 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=67.5km s-min=26.4km az=178.0.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=6.4km az=40.3.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=7.8km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 01 59 41.8–.69 37.49N–.04 142.95E–.04 20–2 5.2b 560 2-154
IDC III 12 01 59 38.6–.41 37.51N 143.03E 0 5.0,4.9 **¶17194219**
BJI III 12 01 59 39.8 37.50N 142.99E 27 5.6s,5.5
ISCJB III 12 01 59 40.1–1.1 37.42N–.02 142.83E–.02 15–6 5.1s,5.1b
MOS III 12 01 59 42.1–1.2 37.43N 142.86E 32 5.3b,5.1b
JMA III 12 01 59 43.0–.30 37.43N 142.65E 19 5.5,5.1b
NEIC III 12 01 59 43.5–2.0 37.48N 142.80E 27–14 5.2b,5.1b
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=10.8km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.7km az=155.9.
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=114.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=142.0.
ISC III 12 02 06 26.2–.77 36.65N–.08 142.31E–.09 19 4.4b 29 3-83
ISCJB III 12 02 06 24.0–.56 36.62N–.07 142.33E–.08 19 4.3b **¶602656678**
IDC III 12 02 06 23.3–1.1 36.69N 142.36E 0 4.2,4.2
NEIC III 12 02 06 24.1–3.0 36.67N 142.34E 6–19 4.6b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.8km az=170.8.
IDC Error ellipse: s-maj=24.7km s-min=23.1km az=53.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.0km az=79.0.
ISC III 12 02 07 20.1–.33 37.79N–.05 143.12E–.06 18 4.9b 246 2-154

IDC III 12 02 07 16.9–.42 37.78N 143.29E 0 4.7,4.7 **¶602656676**
ISCJB III 12 02 07 18.6–.18 37.78N–.03 143.16E–.03 18 4.8b,4.7
NEIC III 12 02 07 19.0–1.8 37.81N 143.18E 10–11 4.9b,4.7
JMA III 12 02 07 20.3–.60 37.86N 143.00E 29 5.2,4.7
ISC Event type ke.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.1km az=150.9.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=136.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.
ISC III 12 02 13 51.9–.41 37.58N–.06 143.81E–.06 35 4.7b 155 4-150
IDC III 12 02 13 46.8–.56 37.61N 143.89E 0 4.5,4.3 **¶16476765**
NEIC III 12 02 13 49.3–2.2 37.58N 143.80E 15–13 4.9b,4.3
ISCJB III 12 02 13 50.2–.23 37.54N–.04 143.75E–.04 33 4.7b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 02 14 39.7–.41 39.32N–.05 143.13E–.07 18 4.8b 117 3-150
IDC III 12 02 14 37.2–.57 39.29N 143.05E 0 4.7,4.6 **¶602656666**
ISCJB III 12 02 14 38.4–.27 39.36N–.03 143.06E–.05 18 4.8b,4.6
JMA III 12 02 14 39.9–.20 39.38N 143.00E 13–2 5.7,4.6
NEIC III 12 02 14 41.5–2.0 39.37N 143.04E 29–13 4.9b,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=14.5km s-min=12.6km az=162.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=22.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.7km az=131.0.
ISC III 12 02 17 36.9–.52 37.66N–.08 143.92E–.06 35 4.6b 85 2-150
IDC III 12 02 17 31.7–.56 37.67N 144.07E 0 4.6,4.5 **¶602656664**
NEIC III 12 02 17 33.4–2.9 37.70N 144.03E 9–18 4.8b,4.5
ISCJB III 12 02 17 34.6–.32 37.57N–.05 143.93E–.04 33 4.6b,4.5
JMA III 12 02 17 36.9–.40 37.65N 143.76E 46 5.4,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=12.2km az=142.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=3.6km az=155.3.
JMA Error ellipse: s-maj=4.4km s-min=2.6km az=-1.0.
ISC III 12 02 21 11.5–.96 39.2N–.10 143.1E–.10 16 4.1b 32 3-82
ISCJB III 12 02 21 09.4–.74 39.2N–.10 143.2E–.10 16 4.0b **¶16476767**
NEIC III 12 02 21 14.3–.89 39.20N 143.09E 37–8 4.3b
IDC III 12 02 21 16.0–3.6 39.01N 143.15E 60–29 4.0,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=8.9km az=148.5.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=6.8km az=147.0.
IDC Error ellipse: s-maj=46.9km s-min=20.2km az=156.0.
ISC III 12 02 22 01.0–.50 37.24N–.07 143.78E–.08 35 4.4b 87 5-149
IDC III 12 02 21 56.2–.54 37.26N 143.74E 0 4.5,4.4 **¶602656653**
NEIC III 12 02 21 57.8–2.7 37.28N 143.75E 11–16 4.6b,4.4
ISCJB III 12 02 21 59.6–.37 37.26N–.06 143.67E–.06 33 4.4b,4.4
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 12 02 23 51.7–.47 39.24N–.06 143.49E–.05 11 4.4b 58 5-87
IDC III 12 02 23 50.6–.64 39.27N 143.47E 0 4.3,4.2 **¶16442343**
ISCJB III 12 02 23 50.4–.34 39.24N–.05 143.45E–.06 11 4.2b,4.2
NEIC III 12 02 23 52.6–3.0 39.34N 143.53E 12–19 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.6km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.2km az=143.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.3km az=116.0.
ISC III 12 02 27 43.1–.65 37.89N–.09 144.4E–.10 35 4.1b 25 5-118
IDC III 12 02 27 38.8–1.8 38.03N 144.30E 0 4.0,3.9 **¶16308515**
ISCJB III 12 02 27 41.1–.57 37.89N–.08 144.4E–.10 33 3.9b,3.9
NEIC III 12 02 27 42.8–.74 37.83N 144.28E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=45.9km s-min=19.5km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=10.2km az=35.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=10.6km az=145.0.
ISC III 12 02 27 49.7–.39 37.83N–.05 144.47E–.06 35 4.7b 289 3-150
IDC III 12 02 27 44.1–.43 37.73N 144.54E 0 4.6,4.5 **¶17194227**
NEIC III 12 02 27 47.7–2.1 37.82N 144.47E 18–12 4.8b,4.5
ISCJB III 12 02 27 48.6–.19 37.90N–.04 144.38E–.03 33 4.6b,4.5
JMA III 12 02 27 52.5–.80 38.13N 144.07E 46 5.0,4.5
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=10.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.7km az=168.8.
JMA Error ellipse: s-maj=4.4km s-min=6.1km az=-1.0.
ISC III 12 02 33 06.9–.56 37.42N–.09 142.61E–.07 21 4.3b 49 1-146
JMA III 12 02 33 03.5–.30 37.16N 142.63E 10 4.7 **¶16476771**
ISCJB III 12 02 33 04.8–.40 37.37N–.06 142.69E–.06 21 4.2b
NEIC III 12 02 33 09.0–1.1 37.41N 142.58E 37–10 4.6b
IDC III 12 02 33 10.6–2.3 37.40N 142.58E 51–21 4.1,4.0
ISC Event type se.
JMA Error ellipse: s-maj=5.6km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.7km az=157.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.3km az=133.0.
IDC Error ellipse: s-maj=14.0km s-min=12.2km az=102.0.
ISC III 12 02 41 07.8–1.2 36.2N–.10 142.84E–.09 10 4.0b 13 2-56
IDC III 12 02 41 06.2–1.3 36.03N 142.76E 0 4.1,3.9 **¶17194231**
ISCJB III 12 02 41 07.6–1.8 36.4N–.20 142.8E–.10 10 4.0b,3.9
JMA III 12 02 41 19.4–.60 37.83N 142.48E 0 4.3,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=27.2km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=32.7km s-min=14.8km az=2.6.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 12 02 46 48.9–.80 37.7N–.10 144.0E–.10 35 4.2b 35 5-118
IDC III 12 02 46 43.4–.70 37.62N 144.02E 0 5.3,5.3s **¶16476774**
ISCJB III 12 02 46 46.8–.58 37.66N–.09 143.98E–.08 33 5.3s,4.2b
NEIC III 12 02 46 47.3–2.8 37.66N 144.03E 24–19 4.4b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.9km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=8.5km az=158.9.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.1km az=133.0.
ISC III 12 02 47 34.8–.37 37.66N–.03 143.68E–.03 24–2 5.8s,5.6b 1228 2-159
NIED III 12 02 47 00 37.50N 143.50E 32 5.8W,5.6b **¶17194232**
BJI III 12 02 47 30.5 37.60N 143.70E 16 6.1b,6.0s
IDC III 12 02 47 30.9–.33 37.56N 143.72E 0 5.6,5.6s
NEIC III 12 02 47 33.5–1.6 37.60N 143.61E 15–9 5.7b,5.6s
ISCJB III 12 02 47 33.9–.08 37.61N–.02 143.62E–.02 27 5.8s,5.6b
GCMT III 12 02 47 33.5–.20 37.63N 143.71E 15–0 5.9W,5.6b
JMA III 12 02 47 34.0–.30 37.59N 143.59E 40 5.9,5.6b
MOS III 12 02 47 34.8–.90 37.64N 143.60E 33 5.8b,5.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ75.00000°,λ171.00000°. NP2:ϕ_s62.00000°,δ81.00000°,λ16.00000°. $M_0$6.60000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=8.8km az=97.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.6km az=157.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c55; s138,c261; Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16±.02 $M_{\theta\theta}$-0.57±.01; $M_{\phi\phi}$0.73±.02; $M_{r\theta}$0.10±.05; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$0.30±.05; Best double couple: NP1:ϕ_s59.00000°,δ81.00000°,λ15.00000°. NP2:ϕ_s327.00000°,δ75.00000°,λ171.00000°. Principal axes: T 0.9000,Plg16.0000°,Azm284.0000°; N -0.2470,Plg73.0000°,Azm88.0000°; P -0.6530,Plg4.0000°,Azm192.0000° $M_0$0.77600×10^{18}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=4.2km az=105.4.
ISC III 12 02 51 49.2–.64 37.73N–.10 144.20E–.09 35 4.7b 61 4-142
IDC III 12 02 51 44.0–.69 37.70N 144.22E 0 4.7,4.6 **¶16445719**
MOS III 12 02 51 46.8–.73 37.67N 144.20E 35 5.1b,4.6
ISCJB III 12 02 51 47.1–.41 37.74N–.06 144.14E–.06 33 4.7b,4.6
NEIC III 12 02 51 47.5–2.2 37.72N 144.22E 22–15 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=13.6km az=151.0.
MOS Error ellipse: s-maj=11.1km s-min=9.4km az=81.3.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.4km az=151.6.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=5.3km az=137.0.
ISC III 12 02 57 13.4–.72 37.5N–.10 143.75E–.10 35 4.4b 33 2-150
IDC III 12 02 57 08.5–.82 37.55N 143.76E 0 4.4,4.1 **¶16449488**
ISCJB III 12 02 57 11.2–.48 37.56N–.08 143.59E–.08 33 4.3b,4.1
NEIC III 12 02 57 12.3–4.9 37.59N 143.65E 27–33 4.5b,4.1
JMA III 12 02 57 37.2–.10 37.23N 141.15E 13–1 3.7,4.1
ISC Event type se.
IDC Error ellipse: s-maj=27.9km s-min=19.3km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=8.2km az=150.6.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=10.0km az=143.0.
JMA Event type fe.
ISC III 12 02 57 34.6–.58 37.46N–.09 143.79E–.09 35 4.5b 39 5-150
IDC III 12 02 57 29.7–.72 37.47N 143.87E 0 4.5,4.3 **¶602656438**
ISCJB III 12 02 57 32.5–.43 37.42N–.07 143.73E–.07 33 4.5b,4.3
NEIC III 12 02 57 34.6–.32 37.45N 143.73E 35 4.6b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=17.9km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.6km az=152.6.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.8km az=135.0.
ISC III 12 02 59 19.8–.41 37.58N–.06 144.42E–.07 35 4.7b 117 3-153
IDC III 12 02 59 14.9–.42 37.65N 144.48E 0 4.6,4.6 **¶17194236**
NEIC III 12 02 59 18.9–1.7 37.66N 144.40E 28–12 4.9b,4.6
ISCJB III 12 02 59 18.1–.29 37.58N–.04 144.44E–.05 33 4.7b,4.6
JMA III 12 02 59 29.4–.40 37.72N 143.43E 59 5.4,4.6
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=11.0km az=132.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.3km az=136.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 12 03 06 44.9–.73 36.64N–.08 142.2E–.10 19 4.5b 19 4-83
ISCJB III 12 03 06 42.5–.53 36.57N–.06 142.2E–.10 19 4.4b **¶602656428**
IDC III 12 03 06 42.2–1.3 36.64N 142.18E 0 4.6,4.5
NEIC III 12 03 06 46.1–.51 36.48N 142.21E 35 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=8.0km az=17.8.
IDC Error ellipse: s-maj=32.8km s-min=18.8km az=118.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.2km az=116.0.
ISC III 12 03 07 19.6–1.1 37.4N–.20 142.2E–.20 24 4.6b 8 10-63
IDC III 12 03 07 15.8–.92 37.34N 142.22E 0 4.6,4.4 **¶17194240**
ISCJB III 12 03 07 17.2–.85 37.3N–.10 142.2E–.20 24 4.5b,4.4
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 03 08 07.5–.40 37.21N 142.17E 24 4.5 ¶603049546
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 12 03 10 47.8–1.1 39.7N–.10 144.0E–.10 11 4.4b 21 10-80
IDC III 12 03 10 46.4–1.1 39.65N 143.93E 0 5.0,5.0s **¶602656414**
ISCJB III 12 03 10 46.0–.85 39.7N–.10 143.9E–.10 11 5.0s,4.3b
NEIC III 12 03 10 51.5–.78 39.68N 143.92E 35 4.4b,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=18.5km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=12.4km az=141.3.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=12.8km az=123.0.
ISC III 12 03 16 25.5–.69 38.9N–.10 143.3E–.10 16 4.5b 51 3-117
ISCJB III 12 03 16 24.0–.43 38.98N–.07 143.29E–.07 16 4.4b **¶16451990**
NEIC III 12 03 16 27.1–2.0 39.01N 143.24E 25–14 4.6b
IDC III 12 03 16 30.1–2.5 38.96N 143.19E 50–23 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.3km az=144.8.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.0km az=137.0.
IDC Error ellipse: s-maj=19.9km s-min=13.9km az=137.0.
ISC III 12 03 19 30.3–.60 36.13N–.08 142.1E–.10 23 4.0b 28 3-147
IDC III 12 03 19 26.9–.83 36.17N 142.11E 0 4.1,3.9 **¶16451991**
ISCJB III 12 03 19 28.4–.48 36.11N–.06 142.07E–.08 23 4.0b,3.9
NEIC III 12 03 19 30.0–3.6 36.13N 142.06E 21–26 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=22.1km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=7.7km az=34.4.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=9.8km az=52.0.
ISC III 12 03 21 44.3–.45 37.82N–.07 144.07E–.07 35 4.7b 150 4-142
IDC III 12 03 21 38.1–.49 37.65N 144.16E 0 4.6,4.5 **¶16310148**
NEIC III 12 03 21 40.7–2.1 37.77N 144.02E 9–12 4.8b,4.5
ISCJB III 12 03 21 42.6–.23 37.78N–.05 143.99E–.04 33 4.6b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 03 24 40.5–.45 36.11N–.05 142.10E–.06 23 4.4b 66 1-147
IDC III 12 03 24 37.2–.53 36.19N 142.13E 0 4.4,4.3 **¶16451995**
ISCJB III 12 03 24 38.7–.34 36.14N–.04 142.12E–.05 23 4.4b,4.3
NEIC III 12 03 24 42.6–.73 36.16N 142.11E 38–6 4.9b,4.3
JMA III 12 03 24 47.2–.50 36.29N 141.50E 30 3.9,4.3
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.8km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.0km az=135.7.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.7km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
ISC III 12 03 25 14.2–.52 37.39N–.08 142.77E–.09 24 4.5b 44 4-89
IDC III 12 03 25 10.8–.62 37.42N 142.77E 0 4.6,4.4 **¶16451998**
ISCJB III 12 03 25 12.2–.38 37.36N–.06 142.77E–.08 24 4.5b,4.4
NEIC III 12 03 25 15.8–.31 37.37N 142.73E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=15.4km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=8.5km az=29.7.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.7km az=121.0.
ISC III 12 03 28 46.1–3.3 36.06N–.05 142.09E–.06 12–20 4.5b 92 1-147
IDC III 12 03 28 44.2–.55 36.05N 142.16E 0 5.0s,5.0 **¶602656405**
ISCJB III 12 03 28 45.7–1.6 36.05N–.03 142.12E–.05 21–11 5.0s,4.4b
NEIC III 12 03 28 47.0–2.8 36.02N 142.11E 18–17 4.6b,4.4b
JMA III 12 03 28 46.4–.30 36.10N 142.16E 64 4.3,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.0km az=32.4.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.7km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 03 29 28.4–.66 37.92N–.04 144.66E–.04 30–4 5.2b 802 3-153
IDC III 12 03 29 22.7–.44 37.71N 144.79E 0 5.0,4.9 **¶16308523**
JMA III 12 03 29 25.9–.30 37.97N 144.48E 48 5.1,4.9
BJI III 12 03 29 25.5 38.06N 144.59E 15 5.5b,5.3s
MOS III 12 03 29 26.9–.80 37.91N 144.67E 33 5.4b,5.3s
NEIC III 12 03 29 27.8–1.4 37.89N 144.62E 25–10 5.3b,5.3s
ISCJB III 12 03 29 27.7–.12 37.92N–.03 144.63E–.02 33 5.1b,5.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 12 03 33 05.6–.30 36.84N 142.25E 19–5 4.0 ¶602656402
JMA Error ellipse: s-maj=4.4km s-min=1.8km az=-1.0.
ISC III 12 03 37 44.8–.57 37.32N–.09 142.71E–.07 21 4.5b 50 1-151
IDC III 12 03 37 41.7–.77 37.39N 142.86E 0 4.4,4.3 **¶16452000**
ISCJB III 12 03 37 42.8–.42 37.30N–.06 142.76E–.06 21 4.5b,4.3
NEIC III 12 03 37 45.6–2.4 37.34N 142.79E 27–17 4.7b,4.3
JMA III 12 03 37 46.0–.30 37.54N 142.46E 28 4.7,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=17.6km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=156.7.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.5km az=82.0.

JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 12 03 38 32.9–.86 36.5N–.10 144.3E–.10 35 4.5b 35 5-89
IDC III 12 03 38 28.2–1.2 36.53N 144.33E 0 4.3,4.2 **¶16452003**
NEIC III 12 03 38 31.0–3.1 36.51N 144.31E 20–21 4.6b,4.2
ISCJB III 12 03 38 31.1–.60 36.52N–.08 144.22E–.08 33 4.3b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 03 41 14.0–.51 39.99N–.05 143.73E–.06 6 4.5b 83 2-87
ISCJB III 12 03 41 12.3–.31 39.98N–.03 143.69E–.05 6 4.3b **¶602656382**
IDC III 12 03 41 12.9–.65 39.91N 143.63E 0 4.3,4.2
JMA III 12 03 41 14.9–.40 39.91N 143.83E 48 5.0,4.2
NEIC III 12 03 41 15.6–2.8 39.90N 143.65E 17–17 4.6b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=25.6.
IDC Error ellipse: s-maj=17.2km s-min=15.1km az=120.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=130.0.
ISC III 12 03 46 22.1–.72 38.45N–.09 143.3E–.10 23 4.2b 33 4-117
IDC III 12 03 46 19.1–.73 38.57N 143.24E 0 4.0,3.9 **¶16452006**
ISCJB III 12 03 46 20.3–.50 38.48N–.07 143.33E–.08 23 4.0b,3.9
NEIC III 12 03 46 24.1–.47 38.54N 143.18E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=16.9km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=7.8km az=148.2.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.1km az=138.0.
ISC III 12 03 50 15.4–.59 37.37N–.09 142.71E–.09 21 4.5b 58 4-118
IDC III 12 03 50 12.1–.56 37.40N 142.67E 0 4.4,4.3 **¶602656341**
ISCJB III 12 03 50 13.6–.40 37.35N–.06 142.69E–.07 21 4.3b,4.3
NEIC III 12 03 50 17.4–.86 37.37N 142.63E 36–7 4.6b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=16.0km s-min=13.6km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.6km az=149.7.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.6km az=114.0.
ISC III 12 03 52 56.7–.46 37.37N–.06 142.53E–.06 21 4.8b 154 1-146
BJI III 12 03 52 51.4 37.34N 143.01E 23 5.2b,5.1s **¶16452009**
IDC III 12 03 52 53.2–.51 37.33N 142.64E 0 4.6,4.6b
ISCJB III 12 03 52 55.4–.29 37.32N–.04 142.57E–.05 21 5.6s,4.7b
NEIC III 12 03 52 56.2–2.3 37.37N 142.62E 18–14 4.9b,4.7b
JMA III 12 03 52 57.0–.40 37.38N 142.45E 36 4.5,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=11.5km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.1km az=143.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=132.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 12 03 59 05.4–.52 38.11N–.08 144.85E–.09 26 4.5b 38 11-149
IDC III 12 03 59 01.6–.86 38.09N 144.83E 0 4.7,4.7s **¶16452011**
ISCJB III 12 03 59 03.4–.40 38.08N–.07 144.78E–.08 26 4.8s,4.5b
NEIC III 12 03 59 04.6–3.4 38.14N 144.81E 19–21 4.6b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=22.0km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=8.2km az=135.7.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.4km az=126.0.
ISC III 12 04 01 47.4–.56 36.34N–.08 142.45E–.07 15 4.4b 58 3-146
ISCJB III 12 04 01 45.6–.40 36.33N–.05 142.44E–.06 15 4.3b **¶16452012**
IDC III 12 04 01 45.6–.97 36.44N 142.38E 0 4.4,4.3
NEIC III 12 04 01 48.0–2.8 36.40N 142.38E 18–18 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.7km az=149.5.
IDC Error ellipse: s-maj=26.3km s-min=14.1km az=163.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.6km az=189.0.
ISC III 12 04 04 04.4–.59 36.52N–.07 142.45E–.07 15 4.3b 35 1-146
ISCJB III 12 04 04 02.7–.46 36.51N–.06 142.47E–.06 15 4.9s,4.2b **¶602656324**
IDC III 12 04 04 02.8–1.2 36.64N 142.43E 0 4.9,4.9s
JMA III 12 04 04 05.0–.30 36.69N 142.34E 11 4.3,4.9s
NEIC III 12 04 04 06.1–3.1 36.48N 142.42E 28–23 4.6b,4.9s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.4km az=179.7.
IDC Error ellipse: s-maj=32.7km s-min=19.0km az=165.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.3km az=193.0.
ISC III 12 04 09 33.3–.69 36.6N–.10 144.31E–.08 35 4.7b 43 5-150
IDC III 12 04 09 28.0–.68 36.48N 144.40E 0 4.8,4.5 **¶16452014**
ISCJB III 12 04 09 31.1–.47 36.47N–.09 144.28E–.06 33 4.6b,4.5
NEIC III 12 04 09 32.2–3.0 36.56N 144.31E 28–21 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=17.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=6.3km az=168.5.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.6km az=136.0.
ISC III 12 04 16 07.7–1.1 37.7N–.20 143.5E–.20 35 4.0b 6 47-76
IDC III 12 04 16 02.4–1.1 37.69N 143.50E 0 4.2,3.9 **¶17194248**
ISCJB III 12 04 16 05.5–1.1 37.7N–.20 143.4E–.30 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 04 20 08.9–.59 37.93N–.09 143.64E–.09 19 4.2b 43 4-142
IDC III 12 04 20 06.0–.72 37.95N 143.80E 0 4.2,4.0 **¶16452017**
ISCJB III 12 04 20 07.0–.44 37.90N–.06 143.60E–.08 19 4.1b,4.0
NEIC III 12 04 20 11.2–.36 37.97N 143.67E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=17.4km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=8.3km az=151.9.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=8.0km az=116.0.
ISC III 12 04 21 21.1–.61 37.7N–.10 143.91E–.08 35 4.5b 44 5-150
IDC III 12 04 21 16.0–.63 37.64N 144.00E 0 4.4,4.2 **¶600540834**
NEIC III 12 04 21 18.9–4.0 37.67N 143.93E 19–24 4.7b,4.2
ISCJB III 12 04 21 19.1–.41 37.66N–.07 143.85E–.06 33 4.4b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 04 34 00.6–.62 39.31N–.10 143.48E–.09 11 4.3b 57 3-150
ISCJB III 12 04 33 59.0–.41 39.31N–.07 143.44E–.06 11 4.2b **¶602656838**
IDC III 12 04 34 04.8–2.7 39.27N 143.37E 42–24 4.1,4.1
NEIC III 12 04 34 04.1–1.8 39.32N 143.40E 34–13 4.5b,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.0km az=150.6.
IDC Error ellipse: s-maj=17.9km s-min=13.8km az=148.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.0km az=141.0.
JMA III 12 04 41 53.9–.40 36.79N 142.07E 15–3 3.8
¶602656819
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 12 04 42 18.5–1.1 37.00N 145.38E 0 4.1,3.8
¶17194255
IDC Error ellipse: s-maj=44.0km s-min=26.8km az=110.0.
IDC III 12 04 50 54.8–10 36.68N 143.56E 0 5.2,5.2s
¶17194260
IDC Error ellipse: s-maj=196.9km s-min=62.6km az=146.0.
ISC III 12 04 52 55.1–.36 40.13N–.03 143.41E–.03 17–1 5.8s,5.4b 1165 2-154
NIED III 12 04 52 00 40.10N 143.60E 20 5.6W,5.4b **¶602656810**
IDC III 12 04 52 52.9–.39 40.10N 143.34E 0 5.5,5.5s
JMA III 12 04 52 52.1–.20 40.06N 143.56E 8 5.7,5.5s
ISCJB III 12 04 52 53.2–.70 40.10N–.02 143.28E–.02 10–4 5.7s,5.4b
MOS III 12 04 52 55.9–1.0 40.19N 143.31E 33 5.7b,5.5s
BJI III 12 04 52 55.4 40.01N 143.08E 23 5.9b,5.8s
NEIC III 12 04 52 57.1–1.3 40.08N 143.20E 26–9 5.3b,5.8s
GCMT III 12 04 52 57.1–.30 40.07N 143.52E 29–1 5.8W,5.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ26.00000°,λ49.00000°. NP2:ϕ_s30.00000°,δ70.00000°,λ108.00000°. M_o2.99000×10^{17}
IDC Error ellipse: s-maj=11.3km s-min=9.9km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.1km az=144.3.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=95.9.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=140.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c41; s92,c143; Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95±.23 $M_{\theta\theta}$-0.89±.13; $M_{\phi\phi}$-3.06±.14; $M_{r\theta}$1.74±.24; $M_{\theta\phi}$-0.31±.06; $M_{\phi r}$3.37±.21; Best double couple: NP1:ϕ_s21.00000°,δ69.00000°,λ97.00000°. NP2:ϕ_s183.00000°,δ22.00000°,λ73.00000°. Principal axes: T 5.6550,Plg66.0000°,Azm303.0000°; N -0.9840,Plg6.0000°,Azm199.0000°; P -4.6660,Plg23.0000°,Azm106.0000° M_o5.16000×10^{17}
ISC III 12 04 57 40.4–1.1 34.9N–.20 141.3E–.20 27 4.0b 7 3-66
IDC III 12 04 57 36.4–.98 34.91N 141.38E 0 4.2,4.0b **¶600540874**
ISCJB III 12 04 57 38.2–.88 34.9N–.10 141.4E–.20 27 4.1b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 05 05 18.6–.61 37.11N–.08 144.36E–.10 26 4.2b 36 5-148
IDC III 12 05 05 14.5–.73 37.09N 144.48E 0 4.2,4.1 **¶16425325**
ISCJB III 12 05 05 16.7–.39 37.06N–.06 144.39E–.07 26 4.3b,4.1
NEIC III 12 05 05 17.0–4.0 37.13N 144.47E 14–25 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=16.9km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.1km az=138.8.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.1km az=113.0.
JMA III 12 05 07 37.8–.20 37.38N 142.01E 31–5 3.8
¶602656760
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 12 05 12 55.4–1.1 37.73N 142.99E 0 4.0,3.7
¶17194264
IDC Error ellipse: s-maj=53.8km s-min=21.3km az=121.0.
ISC III 12 05 14 47.8–1.6 37.8N–.20 144.1E–.20 35 4.2b 21 4-88
IDC III 12 05 14 41.7–2.3 37.65N 144.08E 0 4.4,4.1 **¶16425326**
NEIC III 12 05 14 43.2–.43 37.63N 144.09E 10 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=57.4km s-min=37.0km az=178.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.9km az=128.0.
ISC III 12 05 21 34.9–.51 37.06N–.06 142.50E–.06 9 4.3b 46 1-146
ISCJB III 12 05 21 33.1–.36 37.05N–.05 142.57E–.04 9 4.3b **¶16425327**
IDC III 12 05 21 33.3–.58 37.05N 142.58E 0 4.2,4.1
JMA III 12 05 21 36.0–.30 37.09N 142.53E 38 4.2,4.1
NEIC III 12 05 21 38.9–.92 37.07N 142.48E 36–9 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=174.0.
IDC Error ellipse: s-maj=17.5km s-min=14.3km az=114.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.7km az=96.0.
ISC III 12 05 28 33.6–.92 39.0N–.10 144.4E–.20 19 4.2b 20 7-79
IDC III 12 05 28 30.4–.80 38.98N 144.42E 0 4.2,4.1 **¶602656219**
ISCJB III 12 05 28 31.5–.65 38.97N–.09 144.3E–.20 19 4.0b,4.1
NEIC III 12 05 28 37.8–3.2 38.93N 144.25E 55–27 4.2b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=19.1km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=12.3km az=170.7.
NEIC Event type se. Error ellipse: s-maj=30.0km s-min=13.9km az=68.0.
ISC III 12 05 29 09.5–.51 36.73N–.08 143.31E–.07 35 4.5b 52 4-148
IDC III 12 05 29 04.3–.65 36.76N 143.42E 0 4.4,4.2 **¶16425329**
NEIC III 12 05 29 06.8–3.2 36.73N 143.33E 14–20 4.6b,4.2
ISCJB III 12 05 29 07.6–.32 36.74N–.06 143.22E–.05 33 4.5b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 05 29 39.4–1.2 37.8N–.10 142.2E–.20 30 4.3b 18 5-82
IDC III 12 05 29 34.3–1.1 37.84N 142.39E 0 4.3,4.3 **¶16425332**
ISCJB III 12 05 29 36.9–.94 37.77N–.09 142.4E–.30 30 4.2b,4.3
NEIC III 12 05 29 39.3–.78 37.81N 142.41E 35 4.1b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=44.3km s-min=19.7km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=29.7km s-min=12.4km az=0.7.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=10.0km az=90.0.
ISC III 12 05 30 54.3–.51 38.08N–.08 143.94E–.09 35 4.4b 57 5-147
IDC III 12 05 30 48.9–.66 38.13N 144.00E 0 4.3,4.1 **¶16425333**
NEIC III 12 05 30 52.5–2.4 38.09N 143.94E 21–16 4.8b,4.1
ISCJB III 12 05 30 52.6–.33 38.11N–.06 143.85E–.06 33 4.4b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 05 41 09.1–.77 37.2N–.10 143.0E–.10 25 4.2b 23 4-151
IDC III 12 05 41 05.3–.82 37.16N 143.08E 0 4.2,4.1b **¶16445722**
ISCJB III 12 05 41 06.9–.55 37.15N–.07 142.98E–.09 25 4.2b,3.6s
NEIC III 12 05 41 10.3–.50 37.16N 143.00E 35 4.5b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=18.8km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=9.4km az=39.4.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.9km az=117.0.
ISC III 12 05 42 47.1–.77 37.9N–.10 144.3E–.10 35 4.0b 19 4-77
IDC III 12 05 42 41.8–.76 37.96N 144.28E 0 4.1,3.9 **¶16445723**
ISCJB III 12 05 42 44.8–.52 37.92N–.09 144.3E–.10 33 4.0b,3.9
NEIC III 12 05 42 45.3–4.1 37.93N 144.33E 22–29 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=32.2km s-min=17.9km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=9.9km az=137.4.
NEIC Event type se. Error ellipse: s-maj=18.2km s-min=7.4km az=118.0.
ISC III 12 05 46 58.4–.78 37.5N–.10 144.25E–.09 10 4.0b 23 5-88
ISCJB III 12 05 46 56.1–.56 37.44N–.09 144.5E–.10 10 4.0b **¶16445724**
IDC III 12 05 46 56.7–.72 37.52N 144.36E 0 4.0,3.8
NEIC III 12 05 47 03.0–2.6 37.53N 144.59E 49–23 4.4b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=11.4km az=33.8.
IDC Error ellipse: s-maj=22.1km s-min=17.6km az=120.0.
NEIC Event type se. Error ellipse: s-maj=28.4km s-min=15.3km az=117.0.
ISC III 12 05 56 19.6–.86 39.6N–.10 144.6E–.10 23 4.0b 18 6-87
IDC III 12 05 56 15.8–.91 39.56N 144.71E 0 4.0,3.8 **¶16445726**
ISCJB III 12 05 56 17.5–.67 39.51N–.08 144.6E–.10 23 3.9b,3.8
NEIC III 12 05 56 21.3–.61 39.55N 144.56E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=28.7km s-min=20.4km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=10.9km az=12.1.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=9.1km az=104.0.
ISC III 12 05 58 57.5–.88 37.75N–.05 143.98E–.05 30–5 5.1b,5.0s 751 4-153
IDC III 12 05 58 52.8–.41 37.70N 144.03E 0 5.1,5.0 **¶16308534**
NEIC III 12 05 58 56.0–1.5 37.73N 143.91E 17–9 5.1b,5.0
BJI III 12 05 58 56.1 37.92N 143.81E 21 5.2b,5.2s
ISCJB III 12 05 58 56.9–.13 37.75N–.03 143.91E–.02 33 5.0b,5.0s
MOS III 12 05 58 57.0–.94 37.87N 143.88E 33 5.3b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=11.5km s-min=10.2km az=136.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.3km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.2km az=164.1.
MOS Error ellipse: s-maj=6.2km s-min=4.4km az=107.2.
ISC III 12 06 02 44.3–.63 37.4N–.10 142.37E–.06 21 4.5b 35 1-143
ISCJB III 12 06 02 42.4–.46 37.34N–.07 142.48E–.05 21 4.4b **¶16425337**
JMA III 12 06 02 43.9–.40 37.34N 142.35E 13 4.7
NEIC III 12 06 02 48.8–1.4 37.36N 142.43E 59–13 4.6b
IDC III 12 06 02 50.0–2.9 37.33N 142.27E 74–26 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.3km az=160.4.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=10.0km az=90.0.
IDC Error ellipse: s-maj=18.1km s-min=16.9km az=98.0.
ISC III 12 06 04 45.6–.72 36.8N–.10 144.1E–.10 35 3.9b 24 5-89
IDC III 12 06 04 40.5–.76 36.86N 144.26E 0 4.1,3.9 **¶16445727**
ISCJB III 12 06 04 43.4–.54 36.82N–.07 144.13E–.09 33 3.9b,3.9
NEIC III 12 06 04 45.7–.49 36.86N 144.17E 35 4.3b,3.9

ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=16.7km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=8.3km az=43.6.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.1km az=138.0.

ISC	**III**	**12 06 06 43.2–.53**	**37.24N–.08**	**143.24E–.07**	**35**	**4.2b**	**47**	**4-145**
IDC	III	12 06 06 38.2–.57	37.30N	143.21E	0	4.4,4.3		¶16425338
ISCJB	III	12 06 06 41.2–.37	37.23N–.06	143.22E–.06	33	4.2b,4.3		
NEIC	III	12 06 06 45.1–1.1	37.21N	143.16E	54–10	4.4b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=13.6km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.6km az=145.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=8.1km az=96.0.

ISC	**III**	**12 06 10 22.1–.38**	**37.17N–.05**	**143.74E–.06**	**35**	**4.9b**	**222**	**4-148**
IDC	III	12 06 10 16.2–.49	37.05N	143.92E	0	4.5,4.4		¶16476818
NEIC	III	12 06 10 18.0–2.3	37.09N	143.81E	7–14	5.1b,4.4		
BJI	III	12 06 10 18.3	37.48N	143.89E	21	5.2b,5.1s		
MOS	III	12 06 10 19.5–1.0	37.10N	143.82E	35	5.2b,5.1s		
ISCJB	III	12 06 10 20.7–.26	37.14N–.05	143.74E–.04	33	5.2s,4.8b		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

JMA	**III**	**12 06 10 43.7–.30**	**37.99N**	**143.84E**	**25**	**5.3**		
								¶603049567

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**III**	**12 06 10 44.1–.68**	**38.39N–.04**	**143.88E–.04**	**15–3**	**5.4b,5.1s**	**761**	**3-158**
IDC	III	12 06 10 40.4–.39	38.14N	144.04E	0	5.0,4.9		¶17194274
MOS	III	12 06 10 42.1–.97	38.09N	143.98E	26	5.5b,4.9		
ISCJB	III	12 06 10 42.5–.13	38.43N–.03	143.92E–.03	13	5.2b,5.1s		
BJI	III	12 06 10 44.8	38.17N	143.32E	10	5.3b,5.1s		
GCMT	III	12 06 10 45.0–.50	38.34N	144.58E	19	5.4W,5.1s		
NEIC	III	12 06 10 45.0–1.3	38.49N	143.80E	20–9	5.4b,5.1s		
JMA	III	12 06 10 48.4–.40	38.19N	144.41E	18	5.3,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=9.9km az=133.0.
MOS Error ellipse: s-maj=8.8km s-min=7.0km az=83.3.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.9km az=156.7.
GCMT Error ellipse: s-maj=6.7km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c13; s63,c100; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.56±.07 $M_{\theta\theta}$1.01±.07; $M_{\phi\phi}$0.54±.06; $M_{r\theta}$-0.24±.20; $M_{\theta\phi}$0.51±.04; $M_{\phi r}$0.24±.17; Best double couple: NP1:ϕ_s68.00000°,δ47.00000°,λ-76.00000°. NP2:ϕ_s227.00000°,δ45.00000°,λ-105.00000°. Principal axes: T 1.3370,Plg1.0000°,Azm148.0000°; N 0.2810,Plg10.0000°,Azm238.0000°; P -1.6220,Plg80.0000°,Azm50.0000° $M_0$1.48000×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=134.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.

ISC	**III**	**12 06 15 00.8–1.1**	**39.1N–.20**	**144.6E–.20**	**19**	**3.9b**	**6**	**6-87**
IDC	III	12 06 14 57.8–1.2	39.09N	144.68E	0	4.1,3.8		¶17194276
ISCJB	III	12 06 14 59.1–.94	39.0N–.20	144.6E–.20	19	3.9b,3.8		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 06 25 01.7–.67**	**37.5N–.10**	**142.45E–.09**	**21**	**4.0b**	**23**	**4-89**
ISCJB	III	12 06 24 59.7–.52	37.50N–.08	142.6E–.10	21	4.0b		¶16425340
IDC	III	12 06 25 04.9–4.4	37.42N	142.42E	52–41	4.0,3.9		
NEIC	III	12 06 25 06.1–1.2	37.45N	142.36E	64–12	4.2b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=9.7km az=40.7.
IDC Error ellipse: s-maj=22.4km s-min=19.1km az=103.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=9.1km az=92.0.

ISC	**III**	**12 06 26 10.7–.92**	**37.5N–.20**	**144.0E–.20**	**35**	**4.1b**	**11**	**47-83**
IDC	III	12 06 26 05.3–.85	37.52N	144.00E	0	4.1,3.9		¶17194279
ISCJB	III	12 06 26 08.5–.71	37.5N–.10	144.0E–.20	33	3.9b,3.9		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 06 33 33.5–.47**	**37.94N–.07**	**143.22E–.08**	**18**	**4.2b**	**62**	**4-150**
IDC	III	12 06 33 30.7–.49	38.00N	143.14E	0	4.3,4.2		¶602656046
ISCJB	III	12 06 33 31.5–.33	37.92N–.05	143.15E–.06	18	4.2b,3.8s		
NEIC	III	12 06 33 35.4–2.0	37.95N	143.13E	32–14	4.4b,3.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=14.7km s-min=11.5km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=38.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.3km az=110.0.

ISC	**III**	**12 06 35 59.0–.64**	**39.63N–.05**	**143.65E–.04**	**27–4**	**4.9b,4.7s**	**548**	**2-154**
NIED	III	12 06 35 00	39.70N	143.80E	14	5.0W,4.7s		¶16476824
IDC	III	12 06 35 54.8–.43	39.53N	143.58E	0	4.6,4.5		
BJI	III	12 06 35 57.5	39.71N	143.25E	19	5.4b,5.0s		
JMA	III	12 06 35 57.7–.30	39.70N	143.77E	50	5.0,5.0s		
MOS	III	12 06 35 58.4–1.0	39.66N	143.58E	33	5.2b,4.3s		
ISCJB	III	12 06 35 58.8–.15	39.76N–.02	143.45E–.03	27	4.8b,4.7s		
NEIC	III	12 06 35 60.0–1.2	39.60N	143.45E	28–8	5.0b,4.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ22.00000°,λ24.00000°. NP2:ϕ_s40.00000°,δ81.00000°,λ110.00000°. $M_0$3.07000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=10.8km az=134.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.3km az=88.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.7km az=158.8.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=150.0.

ISC	**III**	**12 06 39 22.5–.37**	**37.46N–.05**	**142.88E–.07**	**24**	**4.8b**	**214**	**4-154**
IDC	III	12 06 39 18.9–.40	37.53N	142.92E	0	4.7,4.7		¶602656030
ISCJB	III	12 06 39 21.7–.20	37.56N–.04	142.79E–.04	24	4.8b,4.7		
NEIC	III	12 06 39 24.2–1.3	37.57N	142.82E	31–9	4.9b,4.7		

ISC Event type ke.
IDC Error ellipse: s-maj=11.4km s-min=10.2km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=163.8.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=145.0.

ISC	**III**	**12 06 40 42.5–.47**	**37.74N–.07**	**144.86E–.07**	**35**	**4.6b**	**85**	**5-149**
IDC	III	12 06 40 37.1–.56	37.78N	144.77E	0	4.7,4.5		¶602656028
ISCJB	III	12 06 40 40.8–.32	37.75N–.06	144.79E–.06	33	4.5b,4.5		
NEIC	III	12 06 40 42.8–1.1	37.80N	144.83E	35–10	4.7b,4.5		

ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=14.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.6km az=156.3.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.1km az=138.0.

ISC	**III**	**12 06 40 52.8–.66**	**37.8N–.10**	**145.03E–.08**	**26**	**4.7b**	**56**	**6-149**
IDC	III	12 06 40 49.3–1.5	37.82N	145.00E	0	4.7,4.6		¶16425347
ISCJB	III	12 06 40 51.0–.54	37.74N–.09	144.97E–.08	26	4.7b,4.6		
NEIC	III	12 06 40 51.5–2.8	37.79N	144.98E	16–17	4.9b,4.6		

ISC Event type se.
IDC Error ellipse: s-maj=38.0km s-min=16.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=14.4km s-min=6.7km az=152.5.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=5.3km az=148.0. Recorded [3 JMA] in Fukushima.

ISC	**III**	**12 06 53 50.3–.45**	**37.60N–.06**	**144.67E–.07**	**35**	**4.5b**	**92**	**5-123**
IDC	III	12 06 53 44.9–.50	37.71N	144.77E	0	4.3,4.1		¶16339082
ISCJB	III	12 06 53 48.9–.23	37.61N–.05	144.54E–.04	33	4.4b,3.9s		
NEIC	III	12 06 53 49.2–2.4	37.74N	144.61E	21–17	4.5b,3.9s		

ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.0km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=152.7.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.7km az=121.0.

ISC	**III**	**12 06 55 38.2–.74**	**37.1N–.10**	**144.33E–.09**	**26**	**4.1b**	**27**	**5-88**
IDC	III	12 06 55 34.2–.71	37.13N	144.39E	0	4.1,3.9		¶16425348
ISCJB	III	12 06 55 36.3–.49	37.14N–.08	144.28E–.07	26	4.0b,3.9		
NEIC	III	12 06 55 40.1–1.4	37.15N	144.25E	42–13	4.6b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=16.3km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.8km az=158.4.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.2km az=94.0.

ISC	**III**	**12 06 57 27.8–.46**	**37.76N–.08**	**143.92E–.07**	**35**	**4.6b**	**142**	**5-153**
IDC	III	12 06 57 22.2–.47	37.68N	143.99E	0	4.6,4.5		¶16425349
NEIC	III	12 06 57 24.7–2.7	37.70N	143.93E	15–16	4.7b,4.5		
ISCJB	III	12 06 57 25.8–.28	37.66N–.06	143.94E–.05	33	4.6b,4.5		

ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Chiba and Kanagawa.
ISCJB Event type fe.

ISC	**III**	**12 06 59 52.0–.56**	**36.48N–.08**	**142.35E–.07**	**15**	**4.3b**	**34**	**3-151**
ISCJB	III	12 06 59 50.2–.46	36.45N–.06	142.43E–.07	15	4.2b		¶16425350
NEIC	III	12 06 59 54.5–3.7	36.49N	142.37E	33–25	4.6b		
IDC	III	12 06 59 55.7–3.5	36.51N	142.34E	38–31	4.0,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=136.4.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=9.3km az=134.0.
IDC Error ellipse: s-maj=25.1km s-min=19.7km az=110.0.

ISC	**III**	**12 07 02 18.6–.49**	**36.70N–.07**	**143.59E–.07**	**25–2**	**4.6b**	**120**	**4-89**
ISCJB	III	12 07 02 16.3–2.7	36.86N–.05	143.46E–.06	13–17	4.5b		¶600541121
IDC	III	12 07 02 20.0–.52	36.74N	143.61E	36–3	4.4,4.3		
NEIC	III	12 07 02 19.3–1.9	36.79N	143.52E	25–13	4.7b,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.7km az=152.0.
IDC Error ellipse: s-maj=13.4km s-min=11.1km az=147.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.9km az=141.0.

ISC	**III**	**12 07 13 21.1–.77**	**37.3N–.10**	**142.6E–.10**	**24**	**4.3b**	**32**	**4-89**
IDC	III	12 07 13 16.6–.72	37.22N	142.46E	0	4.3,4.2		¶16476829
ISCJB	III	12 07 13 18.5–.49	37.19N–.07	142.5E–.10	24	4.2b,4.2		
NEIC	III	12 07 13 21.9–.65	37.23N	142.49E	35	4.5b,4.2		

ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=18.0km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.5km az=16.7.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=9.4km az=105.0.

ISC	**III**	**12 07 13 35.5–.62**	**37.45N–.04**	**142.17E–.04**	**33–3**	**5.0b,4.5s**	**706**	**1-154**
NIED	III	12 07 13 00	37.40N	142.00E	23	4.8W,4.5s		¶17194283
BJI	III	12 07 13 28.9	37.32N	142.40E	20	5.1b,5.1b		
IDC	III	12 07 13 29.9–.42	37.35N	142.16E	0	4.9,4.9		
MOS	III	12 07 13 33.9–.83	37.47N	142.05E	33	5.2b,4.9		
ISCJB	III	12 07 13 33.4–.82	37.41N–.03	142.07E–.02	27–5	5.0b,4.6s		
JMA	III	12 07 13 34.4–.20	37.38N	141.99E	13–2	4.8,4.6s		
NEIC	III	12 07 13 37.5–.43	37.42N	142.01E	47–3	5.0b,4.6s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ44.00000°,λ-76.00000°. NP2:ϕ_s25.00000°,δ48.00000°,λ-103.00000°. $M_0$1.76000×10^{16}
IDC Error ellipse: s-maj=12.2km s-min=9.9km az=126.0.
MOS Error ellipse: s-maj=8.9km s-min=6.5km az=98.6.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=159.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.4km az=142.0.

IDC	**III**	**12 07 16 59.5–5.2**	**34.53N**	**142.86E**	**0**	**4.4,4.2**		
								¶603049576

IDC Error ellipse: s-maj=354.9km s-min=32.9km az=83.0.

ISC	**III**	**12 07 17 48.0–.57**	**37.24N–.10**	**143.48E–.10**	**35**	**4.3b**	**36**	**4-150**
ISCJB	III	12 07 17 45.7–.45	37.19N–.07	143.47E–.08	33	4.2b		¶602655981
NEIC	III	12 07 17 45.6–4.5	37.21N	143.54E	19–28	4.8b		
IDC	III	12 07 17 48.3–.75	37.24N	143.46E	39–7	4.1,4.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.7km az=149.9.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.7km az=97.0.
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=101.0.

ISC	**III**	**12 07 18 38.4–.56**	**39.45N–.09**	**143.70E–.08**	**11**	**4.5b**	**67**	**3-89**
IDC	III	12 07 18 36.5–.60	39.46N	143.61E	0	4.4,4.3		¶16476834
ISCJB	III	12 07 18 37.0–.33	39.48N–.06	143.58E–.06	11	4.4b,4.3		
NEIC	III	12 07 18 40.7–2.0	39.49N	143.56E	25–14	4.7b,4.3		

ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.7km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.0km az=156.7.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.0km az=135.0.

ISC	**III**	**12 07 18 54.9–.41**	**39.10N–.05**	**144.74E–.05**	**29–2**	**5.0b,4.8s**	**406**	**3-153**
MOS	III	12 07 18 53.0–1.5	39.05N	144.77E	33	5.2b,4.8s		¶17194288
ISCJB	III	12 07 18 54.1–.18	39.05N–.04	144.68E–.03	32	4.9b,4.8s		
BJI	III	12 07 18 54.3	39.18N	144.38E	23	5.0b,4.9b		
NEIC	III	12 07 18 55.0–1.3	39.00N	144.68E	30–8	5.1b,4.9b		
IDC	III	12 07 18 55.1–.42	38.97N	144.73E	33–3	4.8,4.7		

ISC Event type se.
MOS Error ellipse: s-maj=11.6km s-min=6.5km az=75.4.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.1km az=159.2.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=141.0.
IDC Error ellipse: s-maj=10.6km s-min=9.0km az=105.0.

ISC	**III**	**12 07 20 25.7–.71**	**37.4N–.10**	**143.7E–.10**	**35**	**4.6b**	**32**	**5-88**
ISCJB	III	12 07 20 23.8–.51	37.34N–.09	143.73E–.10	33	4.5b		¶16476836
IDC	III	12 07 20 26.1–3.7	37.42N	143.70E	39–33	4.5,4.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=10.7km az=163.6.
IDC Error ellipse: s-maj=21.0km s-min=15.1km az=108.0.

ISC	**III**	**12 07 22 24.5–.70**	**37.33N–.10**	**143.9E–.10**	**32–3**	**4.5b**	**33**	**5-145**
NEIC	III	12 07 22 22.0–4.5	37.33N	143.89E	14–27	4.8b		¶16425355
IDC	III	12 07 22 26.3–.73	37.30N	143.84E	47–7	4.3,4.3		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.7km az=122.0.
IDC Error ellipse: s-maj=18.2km s-min=14.8km az=95.0.

IDC	**III**	**12 07 23 29.9–1.5**	**38.48N**	**144.62E**	**0**	**4.4,4.1**		
								¶16425356

IDC Error ellipse: s-maj=49.9km s-min=35.7km az=91.0.

ISC	**III**	**12 07 23 55.1–.59**	**38.59N–.08**	**144.83E–.08**	**20–2**	**4.7b**	**71**	**6-149**
ISCJB	III	12 07 23 50.8–3.7	38.57N–.06	144.76E–.08	3–24	4.7b		¶16476838
NEIC	III	12 07 23 53.8–3.4	38.57N	144.81E	11–21	4.7b		
IDC	III	12 07 23 55.5–.77	38.49N	144.87E	30–4	4.4,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=8.4km az=43.4.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.8km az=131.0.
IDC Error ellipse: s-maj=18.2km s-min=14.9km az=163.0.

ISC	**III**	**12 07 24 56.7–.42**	**37.21N–.06**	**143.51E–.07**	**30–2**	**4.8b**	**137**	**4-150**
ISCJB	III	12 07 24 53.3–2.1	37.17N–.05	143.48E–.06	16–15	4.7b		¶17194292
NEIC	III	12 07 24 57.0–1.5	37.18N	143.49E	31–10	4.7b		
IDC	III	12 07 24 57.8–.47	37.21N	143.55E	39–3	4.4,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=135.4.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=130.0.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=92.0.

ISC	**III**	**12 07 25 43.3–1.0**	**36.91N–.08**	**142.33E–.07**	**9**	**4.1b**	**14**	**1-146**
NIED	III	12 07 25 00	37.00N	142.30E	47	4.5W		¶16461440
ISCJB	III	12 07 25 42.3–.85	36.86N–.06	142.40E–.07	9	4.0b		
IDC	III	12 07 25 42.6–1.2	36.84N	142.58E	0	4.6,4.4		
JMA	III	12 07 25 44.8–.20	36.99N	142.34E	19	4.3,4.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ21.00000°,λ-166.00000°. NP2:ϕ_s359.00000°,δ85.00000°,λ-69.00000°. $M_0$5.89000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=9.7km s-min=6.9km az=27.7.
IDC Error ellipse: s-maj=62.0km s-min=23.2km az=150.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**12 07 27 43.9–.71**	**37.22N–.10**	**144.3E–.10**	**26**	**4.4b**	**20**	**5-150**
ISCJB	III	12 07 27 41.5–.61	37.21N–.08	144.4E–.10	26	4.3b		¶16445729
IDC	III	12 07 27 44.4–.79	37.16N	144.31E	32–6	4.2,4.1		
NEIC	III	12 07 27 46.5–1.2	37.21N	144.23E	51–12	4.5b,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=10.3km az=39.2.
IDC Error ellipse: s-maj=25.6km s-min=17.2km az=117.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=8.1km az=111.0.

ISC	**III**	**12 07 29 39.6–1.1**	**39.7N–.10**	**143.9E–.10**	**11**	**4.1b**	**13**	**5-80**
ISCJB	III	12 07 29 37.3–.75	39.62N–.08	143.9E–.10	11	4.1b		¶16310157
IDC	III	12 07 29 37.7–.99	39.59N	143.90E	0	4.2,4.0		
NEIC	III	12 07 29 43.7–1.6	39.62N	143.81E	43–15	4.5b,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=11.5km az=179.5.
IDC Error ellipse: s-maj=29.5km s-min=21.0km az=81.0.

NEIC Event type se. Error ellipse: s-maj=18.3km s-min=9.5km az=83.0.
ISC III 12 07 32 04.9–.57 38.68N–.09 144.50E–.09 29 4.5b 43 3-147
ISCJB III 12 07 32 03.1–.40 38.65N–.06 144.42E–.07 29 4.5b ¶16425358
NEIC III 12 07 32 06.2–1.0 38.68N 144.46E 39–9 4.5b
IDC III 12 07 32 06.5–5.1 38.73N 144.52E 43–47 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.9km az=168.8.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=7.0km az=126.0.
IDC Error ellipse: s-maj=22.3km s-min=20.2km az=98.0.
ISC III 12 07 32 12.7–.81 37.70N–.08 142.55E–.07 21 4.0b 20 1-146
IDC III 12 07 32 10.0–1.3 37.76N 142.71E 0 4.3,4.1 ¶17194298
ISCJB III 12 07 32 10.9–.67 37.71N–.07 142.57E–.05 21 4.0b,4.1
JMA III 12 07 32 12.7–.40 37.71N 142.35E 6 4.6,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=53.7km s-min=27.2km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.5km az=159.7.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 12 07 34 41.6–.61 38.28N–.09 144.76E–.10 35 4.2b 31 5-87
ISCJB III 12 07 34 39.7–.47 38.28N–.07 144.71E–.09 35 4.2b ¶16476843
IDC III 12 07 34 42.4–.97 38.33N 144.68E 40–7 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.9km az=135.0.
IDC Error ellipse: s-maj=17.5km s-min=12.3km az=116.0.
ISC III 12 07 35 36.6–.36 37.34N–.05 142.64E–.06 21 4.9b 192 1-146
NIED III 12 07 35 00 37.40N 142.50E 8 4.5W ¶602655967
JMA III 12 07 35 34.7–.40 37.40N 142.50E 7 4.8
ISCJB III 12 07 35 35.3–.21 37.39N–.03 142.59E–.04 21 4.8b
MOS III 12 07 35 36.3–.72 37.38N 142.64E 33 5.1b
IDC III 12 07 35 38.7–2.9 37.39N 142.59E 38–24 4.4,4.4
NEIC III 12 07 35 39.3–.52 37.38N 142.58E 39–4 4.4,4.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ43.00000°,λ-102.00000°. NP2:ϕ_s269.00000°,δ48.00000°,λ-79.00000°. $M_0$5.71000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.3km az=142.4.
MOS Error ellipse: s-maj=9.5km s-min=6.9km az=94.1.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=106.0.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=132.0. Recorded [3 JMA] in Fukushima.
ISC III 12 07 38 04.2–.43 38.70N–.07 144.41E–.07 24–2 4.8b 177 3-145
ISCJB III 12 07 38 04.5–.23 38.73N–.05 144.26E–.04 36 4.7b ¶16310158
NEIC III 12 07 38 04.9–1.5 38.70N 144.35E 27–10 4.9b
IDC III 12 07 38 05.3–.43 38.74N 144.39E 36–3 4.6,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.2km az=160.1.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.5km az=144.0.
IDC Error ellipse: s-maj=13.3km s-min=10.1km az=118.0.
ISC III 12 07 42 05.2–.57 38.68N–.07 144.25E–.07 26–3 4.4b 75 3-146
NEIC III 12 07 42 03.9–2.5 38.73N 144.31E 14–16 4.4b ¶16425361
IDC III 12 07 42 06.4–.59 38.74N 144.19E 34–4 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.9km az=124.0.
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=128.0.
ISC III 12 07 46 41.2–.50 37.77N–.06 143.77E–.07 31–2 4.5b 97 4-144
NEIC III 12 07 46 38.1–2.2 37.79N 143.75E 7–14 4.7b ¶16310159
ISCJB III 12 07 46 41.3–.25 37.70N–.04 143.63E–.05 46 4.5b
IDC III 12 07 46 42.8–.52 37.77N 143.86E 46–4 4.3,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.3km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.6km az=143.8.
IDC Error ellipse: s-maj=13.3km s-min=10.3km az=116.0.
ISC III 12 07 51 08.6–.71 39.34N–.09 143.83E–.10 11 4.2b 33 3-88
ISCJB III 12 07 51 06.6–.54 39.32N–.08 143.76E–.09 11 4.2b ¶16403908
IDC III 12 07 51 06.5–.73 39.32N 143.71E 0 4.1,4.0
NEIC III 12 07 51 12.5–1.5 39.24N 143.79E 42–13 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=7.5km az=141.8.
IDC Error ellipse: s-maj=19.4km s-min=15.7km az=144.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=10.3km az=124.0.
ISC III 12 07 56 40.4–.52 37.79N–.08 143.61E–.07 19 4.8b 72 4-117
ISCJB III 12 07 56 39.3–.38 37.99N–.06 143.52E–.06 19 4.6b ¶16425362
NEIC III 12 07 56 42.5–.69 37.94N 143.56E 31–5 4.6b
IDC III 12 07 56 42.1–.70 37.83N 143.64E 34–4 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=4.5km az=150.6.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.2km az=145.0.
IDC Error ellipse: s-maj=17.3km s-min=12.9km az=154.0.
ISC III 12 08 00 42.1–1.5 38.7N–.20 144.5E–.20 29 4.2b 9 5-68
IDC III 12 08 00 37.2–1.5 38.69N 144.69E 0 4.6,4.6s ¶17194303
ISCJB III 12 08 00 40.0–1.3 38.7N–.10 144.5E–.20 29 4.6s,4.2b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 02 57.8–.65 37.66N–.10 144.4E–.10 35 4.1b 21 5-88
IDC III 12 08 02 52.6–.69 37.66N 144.45E 0 4.1,3.9 ¶16445735
ISCJB III 12 08 02 55.6–.50 37.63N–.07 144.4E–.10 33 4.1b,3.9
NEIC III 12 08 02 57.5–.59 37.60N 144.54E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=15.4km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=9.1km az=35.2.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=9.1km az=127.0.
ISC III 12 08 03 52.4–.96 37.8N–.10 143.2E–.10 18 3.8b 20 2-62
ISCJB III 12 08 03 49.8–.72 37.83N–.08 143.3E–.10 18 4.0b ¶17194304
IDC III 12 08 03 49.5–.97 37.85N 143.09E 0 3.9,3.8
NEIC III 12 08 03 54.5–.73 37.80N 143.12E 35 4.4b,3.8
JMA III 12 08 03 56.3–.40 37.98N 142.64E 23 4.4,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=9.5km az=41.0.
IDC Error ellipse: s-maj=25.7km s-min=19.4km az=100.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=12.4km az=127.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 12 08 04 18.7–.99 37.2N–.10 144.0E–.10 35 4.2b 20 5-82
IDC III 12 08 04 13.1–.98 37.15N 144.01E 0 4.2,4.1 ¶17194308
ISCJB III 12 08 04 16.1–.69 37.18N–.09 143.9E–.10 33 4.1b,4.1
NEIC III 12 08 04 20.4–2.1 37.26N 143.81E 50–19 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=20.2km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=11.1km az=146.4.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=17.4km az=92.0.
ISC III 12 08 06 52.4–.97 37.7N–.20 144.2E–.20 35 3.8b 8 5-73
IDC III 12 08 06 47.2–.97 37.66N 144.28E 0 4.1,3.8b ¶16476848
ISCJB III 12 08 06 50.0–.81 37.7N–.20 144.2E–.20 33 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 10 43.0–1.1 37.5N–.20 143.6E–.20 35 3.7b 9 4-74
IDC III 12 08 10 37.9–1.1 37.44N 143.42E 0 3.9,3.8 ¶16476853
ISCJB III 12 08 10 40.7–.87 37.4N–.10 143.6E–.20 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 11 17.5–.93 37.0N–.10 142.4E–.10 9 4.2b 15 3-75
IDC III 12 08 11 15.4–1.3 36.96N 142.46E 0 4.2,4.1b ¶17194314
ISCJB III 12 08 11 15.2–.98 37.03N–.10 142.5E–.20 9 4.1b,4.1b
NEIC III 12 08 11 21.2–1.1 37.03N 142.39E 37–9 4.5b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=27.2km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=21.3km s-min=12.3km az=21.3.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=9.7km az=108.0.
ISC III 12 08 13 38.5–.59 39.2N–.10 143.09E–.08 16 4.8b 300 3-154
ISCJB III 12 08 13 37.9–.34 39.32N–.07 142.94E–.04 16 4.7b ¶16310161
IDC III 12 08 13 40.3–6.6 39.13N 143.04E 33–46 4.4,4.4
NEIC III 12 08 13 42.8–1.5 39.29N 142.94E 40–10 4.8b,4.4
ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=4.5km az=5.9.
IDC Error ellipse: s-maj=25.2km s-min=12.9km az=176.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=4.4km az=174.0.
ISC III 12 08 15 26.8–1.1 37.5N–.10 143.5E–.10 35 4.5b 12 4-83
IDC III 12 08 15 21.6–1.1 37.55N 143.71E 0 4.6,4.4 ¶16476859
ISCJB III 12 08 15 24.4–.90 37.32N–.10 143.7E–.10 33 4.5b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 16 14.7–.57 37.67N–.07 143.11E–.10 18 4.5b 46 4-93
IDC III 12 08 16 12.3–.76 37.84N 143.03E 0 4.4,4.3 ¶603310072
ISCJB III 12 08 16 13.4–.45 37.78N–.07 143.01E–.07 18 4.4b,4.3
NEIC III 12 08 16 19.0–.89 37.83N 142.95E 47–8 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=16.8km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=7.2km az=146.8.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.0km az=127.0.
ISC III 12 08 19 28.6–.56 37.87N–.08 143.11E–.08 18 4.1b 36 2-80
IDC III 12 08 19 26.0–.68 37.89N 143.18E 0 4.1,3.9 ¶16425365
ISCJB III 12 08 19 26.5–.37 37.82N–.05 143.03E–.07 18 4.1b,3.9
JMA III 12 08 19 28.3–.80 37.64N 142.58E 0 4.4,3.9
NEIC III 12 08 19 30.0–2.9 37.86N 143.13E 27–22 4.4,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.3km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=42.1.
JMA Error ellipse: s-maj=8.9km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.5km az=116.0.
ISC III 12 08 23 56.7–.64 37.64N–.09 142.5E–.10 21 4.2b 24 4-151
IDC III 12 08 23 53.0–.75 37.62N 142.50E 0 4.3,4.2b ¶16445742
ISCJB III 12 08 23 54.6–.51 37.64N–.07 142.48E–.10 21 4.2b,4.2b
NEIC III 12 08 23 59.9–1.1 37.64N 142.37E 50–10 4.6b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=18.0km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=9.0km az=31.3.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=7.5km az=101.0.
ISC III 12 08 25 07.3–.95 36.8N–.20 143.6E–.10 35 4.0b 10 4-89
IDC III 12 08 25 02.0–.95 36.76N 143.67E 0 4.1,3.9b ¶17194322
ISCJB III 12 08 25 05.2–.75 36.7N–.10 143.5E–.10 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 27 58.0–1.1 38.5N–.20 143.9E–.20 14 4.0b 8 5-63
IDC III 12 08 27 55.6–.97 38.52N 143.85E 0 4.1L,4.0 ¶17194326
ISCJB III 12 08 27 55.7–.91 38.5N–.10 143.9E–.20 14 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 28 30.6–.80 37.2N–.10 143.9E–.10 35 3.9b 20 5-88
IDC III 12 08 28 25.5–.87 37.26N 144.04E 0 4.1,3.9 ¶17194329
ISCJB III 12 08 28 28.8–.67 37.29N–.10 143.9E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 12 08 28 42.2–1.3 36.71N 143.56E 0 4.0,4.0L
¶17194332
IDC Error ellipse: s-maj=38.1km s-min=27.8km az=122.0.
ISC III 12 08 34 49.0–1.8 37.74N–.10 142.9E–.20 19 7 4-58
IDC III 12 08 34 44.2–2.8 37.94N 143.29E 0 4.1,4.0 ¶17194333
ISC Event type ke.
IDC Error ellipse: s-maj=60.0km s-min=27.4km az=70.0.
ISC III 12 08 39 55.5–1.2 38.9N–.20 144.6E–.10 19 4.2b 14 6-87
IDC III 12 08 39 52.0–1.9 38.86N 144.60E 0 4.2,4.0 ¶17194336
ISCJB III 12 08 39 53.9–1.0 39.0N–.20 144.5E–.10 19 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 47 11.0–4.7 39.1N–.90 144.0E–.20 23 3.8b 8 46-75
IDC III 12 08 47 06.8–4.2 38.96N 143.94E 0 4.0,3.8 ¶17194337
ISC Event type ke.
IDC Error ellipse: s-maj=120.4km s-min=27.1km az=2.0.
ISC III 12 08 52 48.3–.69 37.18N–.06 143.69E–.05 29–4 4.9b,4.4s 641 2-156
IDC III 12 08 52 43.0–.44 37.07N 143.73E 0 4.9,4.8 ¶16309760
BJI III 12 08 52 46.9 37.20N 143.60E 33 5.2b,4.8b
ISCJB III 12 08 52 46.9–.16 37.18N–.04 143.64E–.03 28 4.9b,4.4s
MOS III 12 08 52 47.8–.96 37.38N 143.58E 29 5.1b,4.4s
NEIC III 12 08 52 47.8–1.2 37.18N 143.62E 23–8 5.0b,4.4s
JMA III 12 08 52 56.3–.10 36.25N 141.12E 40–3 4.2,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=164.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=2.8km az=169.3.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=95.9.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.0km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 08 58 23.6–.56 37.02N–.08 143.49E–.09 35 4.5b 65 4-145
IDC III 12 08 58 18.3–.56 37.07N 143.55E 0 4.4,4.3 ¶602656539
ISCJB III 12 08 58 22.1–.37 37.09N–.05 143.44E–.06 33 4.3b,4.3
NEIC III 12 08 58 24.4–.82 37.10N 143.48E 37–7 4.6b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=15.1km s-min=13.9km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.9km az=143.6.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.0km az=125.0.
ISC III 12 09 00 00.1–.27 37.35N–.04 143.57E–.04 28–1 5.1b,4.6s 691 2-153
MOS III 12 08 59 58.4–.88 37.32N 143.64E 31 5.3b,4.6s ¶602656535
NEIC III 12 08 59 60.0–1.3 37.32N 143.57E 24–9 5.2b,4.6s
ISCJB III 12 09 00 00.4–.13 37.34N–.03 143.52E–.02 39 5.0b,4.5s
IDC III 12 09 00 01.2–.35 37.27N 143.67E 38–2 4.8,4.7
BJI III 12 09 00 03.9 37.55N 143.00E 40 5.2b,5.0b
JMA III 12 09 00 13.1–.30 37.71N 141.96E 18–4 4.4,5.0b
ISC Event type ke.
MOS Error ellipse: s-maj=7.7km s-min=5.7km az=105.1.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.3km az=163.7.
IDC Error ellipse: s-maj=9.7km s-min=8.6km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 09 03 12.2–.30 36.90N 142.06E 14 4.1
¶16403909
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 09 05 31.3–.48 38.26N–.07 144.40E–.06 29–2 4.6b 152 3-145
JMA III 12 09 05 29.1–.20 38.00N 144.31E 24 5.1 ¶16310167
ISCJB III 12 09 05 29.9–2.0 38.34N–.05 144.24E–.05 25–14 4.6b
IDC III 12 09 05 30.5–.55 38.13N 144.49E 28–2 4.5,4.4
NEIC III 12 09 05 32.6–.22 38.27N 144.30E 35 4.7b,4.4
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=4.9km az=150.5.
IDC Error ellipse: s-maj=14.0km s-min=11.1km az=155.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=3.7km az=156.0.
ISC III 12 09 10 26.3–.71 36.80N–.09 144.11E–.09 35 4.0b 33 5-89
IDC III 12 09 10 21.2–.72 36.82N 144.22E 0 4.1,4.0 ¶16407491
ISCJB III 12 09 10 24.1–.51 36.77N–.06 144.07E–.07 33 3.9b,4.0
NEIC III 12 09 10 26.5–.42 36.86N 144.13E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.2km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.4km az=145.5.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.0km az=144.0.
ISC III 12 09 12 08.4–.60 37.46N–.07 143.55E–.07 35 4.1b 48 2-145
IDC III 12 09 12 03.4–.63 37.50N 143.60E 0 4.3,4.1 ¶16407492
ISCJB III 12 09 12 06.5–.47 37.49N–.06 143.52E–.05 33 4.1b,4.1
JMA III 12 09 12 07.4–.20 37.50N 143.40E 33 4.7,4.1
NEIC III 12 09 12 08.7–.53 37.54N 143.58E 35 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=13.7km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=4.9km az=150.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.1km az=132.0.
ISC III 12 09 13 15.0–.65 39.93N–.07 143.56E–.08 26–3 4.4b 71 2-87

ISCJB III 12 09 13 13.3–2.2 39.92N–.05 143.54E–.08 27–15 4.4b ¶16407493
IDC III 12 09 13 15.0–.69 39.92N 143.51E 26–3 4.2,4.2
NEIC III 12 09 13 16.2–.31 39.94N 143.56E 35 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=6.9km az=26.6.
IDC Error ellipse: s-maj=15.6km s-min=13.2km az=141.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=128.0.
ISC III 12 09 14 58.0–.65 38.24N–.07 143.95E–.07 28–3 4.3b 44 3-83
JMA III 12 09 14 57.5–.20 38.11N 143.93E 49 4.9 ¶16410964
ISCJB III 12 09 14 57.3–1.3 38.18N–.07 143.88E–.09 38–11 4.2b
NEIC III 12 09 14 58.9–.33 38.19N 143.93E 35 4.5b
IDC III 12 09 14 59.5–.63 38.20N 143.93E 41–6 4.2,4.2
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=7.4km az=42.3.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=139.0.
IDC Error ellipse: s-maj=16.6km s-min=13.3km az=136.0.
ISC III 12 09 17 21.0–.73 37.8N–.10 144.10E–.08 35 4.3b 44 3-118
IDC III 12 09 17 15.7–.66 37.69N 144.24E 0 4.4,4.2 ¶16410965
ISCJB III 12 09 17 18.6–.48 37.68N–.07 144.09E–.06 33 4.2b,4.2
JMA III 12 09 17 19.5–.30 37.63N 143.97E 33 4.7,4.2
NEIC III 12 09 17 20.9–.34 37.71N 144.16E 35 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=13.4km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=4.7km az=153.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.1km az=146.0.
ISC III 12 09 18 56.4–.33 37.12N–.04 143.51E–.04 30–2 5.3b,5.0s 890 2-153
IDC III 12 09 18 51.4–.39 37.05N 143.55E 0 5.1,5.1 ¶602656516
NEIC III 12 09 18 53.5–.10 37.09N 143.47E 10 5.4b,5.1
GCMT III 12 09 18 53.5–.40 37.34N 143.60E 12 5.2W,5.1
ISCJB III 12 09 18 54.7–.11 37.11N–.02 143.48E–.02 29 5.2b,4.9s
BJI III 12 09 18 54.1 37.20N 143.27E 20 5.4b,5.1b
MOS III 12 09 18 54.6–1.0 37.15N 143.49E 30 5.5b,5.0s
JMA III 12 09 18 55.9–.20 37.03N 143.36E 40 5.1,5.0s
ISC Event type ke.
IDC Error ellipse: s-maj=11.3km s-min=9.8km az=156.0.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=149.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s72,c128; Duration: 1$\mathfrak{s}$0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.69±.30 $M_{\theta\theta}$4.00±.27; $M_{\phi\phi}$2.68±.29; $M_{r\theta}$1.32±1.00; $M_{\theta\phi}$3.68±.20; $M_{\phi r}$3.17±.99; Best double couple: NP1:ϕ_s218.00000°,δ58.00000° ,λ-103.00000°. NP2:ϕ_s62.00000°,δ34.00000°,λ-70.00000°. Principal axes: T 7.7360,Plg12.0000°,Azm318.0000°; N -0.0810,Plg11.0000°,Azm225.0000° ; P -7.6650,Plg73.0000°,Azm94.0000° $M_0$7.70100×10^{16}
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=1.9km az=161.5.
MOS Error ellipse: s-maj=6.6km s-min=4.5km az=105.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 09 22 05.5–.72 36.5N–.10 142.27E–.09 15 4.6b 31 3-90
ISCJB III 12 09 22 03.1–.56 36.50N–.08 142.30E–.08 15 4.5b ¶16410966
IDC III 12 09 22 06.8–.93 36.55N 142.23E 27–4 4.4,4.4
NEIC III 12 09 22 07.3–.59 36.52N 142.23E 31–4 4.6b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.3km az=149.4.
IDC Error ellipse: s-maj=22.5km s-min=18.8km az=159.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=6.6km az=150.0.
ISC III 12 09 22 57.5–1.2 37.8N–.10 142.9E–.10 18 4.7b 8 4-62
IDC III 12 09 22 54.6–1.2 37.74N 142.88E 0 4.6,4.6b ¶17194346
ISCJB III 12 09 22 55.3–1.0 37.8N–.10 142.8E–.20 18 4.6b,4.6b
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 09 24 50.7–.30 37.56N 142.73E 0 4.4
¶602656506
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 12 09 27 12.1–.36 37.42N–.05 143.70E–.05 28–1 5.0b,4.7s 399 2-153
IDC III 12 09 27 07.2–.41 37.28N 143.85E 0 4.8,4.7 ¶602656504
MOS III 12 09 27 12.5–1.2 37.72N 143.65E 32 5.2b,4.7
ISCJB III 12 09 27 12.6–.21 37.51N–.04 143.60E–.03 38 4.9b,4.7s
JMA III 12 09 27 12.0–.30 37.39N 143.52E 34 5.2,4.7s
NEIC III 12 09 27 13.4–.14 37.38N 143.70E 35 5.0b,4.7s
BJI III 12 09 27 17.3 37.66N 142.88E 39 5.2b,4.9b
ISC Event type ke.
IDC Error ellipse: s-maj=11.8km s-min=10.0km az=144.0.
MOS Error ellipse: s-maj=7.2km s-min=5.0km az=94.7.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=2.8km az=162.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.6km az=154.0.
ISC III 12 09 30 42.8–.67 37.39N–.07 143.74E–.07 35 4.3b 40 2-76
IDC III 12 09 30 38.2–.76 37.39N 143.96E 0 4.4,4.4 ¶16410967
ISCJB III 12 09 30 40.8–.51 37.36N–.05 143.67E–.05 33 4.3b,4.4
JMA III 12 09 30 42.3–.20 37.50N 143.24E 0 4.9,4.4
NEIC III 12 09 30 43.1–.64 37.39N 143.76E 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=16.4km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.4km az=153.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.3km az=102.0.
ISC III 12 09 32 37.1–1.1 37.3N–.10 143.8E–.10 35 4.0b 16 5-61
IDC III 12 09 32 32.1–1.1 37.23N 143.88E 0 4.2,4.0 ¶16407494
ISCJB III 12 09 32 34.7–.76 37.33N–.08 143.8E–.10 33 4.0b,4.0
NEIC III 12 09 32 37.2–.66 37.31N 143.81E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=32.4km s-min=23.9km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=9.6km az=38.5.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.0km az=123.0.
ISC III 12 09 33 21.5–.61 37.15N–.08 143.46E–.07 35 4.3b 52 2-145
IDC III 12 09 33 15.8–.57 37.01N 143.62E 0 4.4,4.3 ¶602656495
NEIC III 12 09 33 18.8–3.2 37.02N 143.58E 18–19 4.3b,4.3
ISCJB III 12 09 33 19.1–.43 37.03N–.07 143.48E–.05 33 4.3b,4.3
JMA III 12 09 33 51.1–.10 37.74N 141.53E 44–3 3.3,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=14.3km az=126.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.0km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.6km az=163.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 09 38 52.9–.99 40.3N–.10 143.1E–.10 12 4.4b 32 2-87
IDC III 12 09 38 48.9–1.9 39.83N 143.11E 0 4.5,4.3 ¶16425372
ISCJB III 12 09 38 51.2–.77 40.19N–.10 143.1E–.10 12 4.3b,4.3
NEIC III 12 09 38 56.0–.81 40.19N 143.01E 35 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=52.0km s-min=19.8km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=9.7km az=145.2.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=10.3km az=162.0.
JMA III 12 09 39 52.0–.70 37.40N 142.26E 11 4.4
¶603049595
JMA Event type fe. Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0.
JMA III 12 09 47 10.3–.30 36.75N 142.13E 9–4 4.4
¶603049596
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 12 09 47 56.2–.68 37.93N–.07 142.39E–.05 25–3 4.8b 158 1-146
NIED III 12 09 47 00 37.80N 142.40E 20 4.7W ¶16309767
JMA III 12 09 47 54.1–.20 37.84N 142.45E 23 4.8
ISCJB III 12 09 47 55.7–1.7 38.03N–.05 142.36E–.05 28–11 4.7b
NEIC III 12 09 47 59.8–.51 38.16N 142.29E 42–4 4.8b
IDC III 12 09 47 59.5–2.2 38.08N 142.38E 46–19 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ33.00000°,λ-78.00000°. NP2:ϕ_s8.00000°,δ58.00000°,λ-98.00000°. $M_0$1.26000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=4.9km az=155.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=3.3km az=157.0.
IDC Error ellipse: s-maj=24.1km s-min=11.9km az=162.0.
JMA III 12 09 53 39.0–.20 37.25N 142.59E 32 3.6
¶602656469
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 12 09 57 53.0–.84 36.7N–.10 142.31E–.08 15 3.8b 16 1-90
IDC III 12 09 57 50.4–.85 36.65N 142.47E 0 4.0,3.8 ¶17194359
JMA III 12 09 57 51.4–.30 36.80N 142.28E 12 4.1,3.8
ISCJB III 12 09 57 51.1–.65 36.69N–.10 142.34E–.08 15 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 09 57 53.4–.91 37.5N–.10 143.80E–.09 35 3.9b 13 2-88
IDC III 12 09 57 48.3–1.0 37.42N 144.15E 0 4.3L,4.0 ¶17194356
ISCJB III 12 09 57 51.5–.82 37.5N–.10 143.84E–.08 33 3.7b,4.0
JMA III 12 09 57 54.0–.30 37.53N 143.68E 51 4.4,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=30.8km s-min=24.2km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=7.5km az=166.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 12 09 59 42.5–.50 37.00N 142.29E 16 4.5
¶602656456
JMA Error ellipse: s-maj=4.4km s-min=3.6km az=-1.0.
ISC III 12 10 05 01.0–.74 37.1N–.10 144.3E–.10 26 4.1b 18 5-145
IDC III 12 10 04 57.0–.70 37.11N 144.37E 0 4.2,4.0 ¶16461383
ISCJB III 12 10 04 58.8–.59 37.08N–.09 144.22E–.10 26 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 10 06 12.7–.43 37.17N–.07 143.52E–.06 35 4.7b 136 4-145
IDC III 12 10 06 07.1–.45 37.13N 143.64E 0 4.6,4.5 ¶17194360
NEIC III 12 10 06 09.3–2.0 37.17N 143.53E 11–12 4.9b,4.5
ISCJB III 12 10 06 10.9–.25 37.12N–.04 143.46E–.04 33 4.6b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 10 11 29.3–1.0 36.7N–.10 142.3E–.10 15 3.8b 13 3-83
ISCJB III 12 10 11 27.3–.78 36.7N–.10 142.4E–.10 15 3.7b ¶602655924
IDC III 12 10 11 32.7–4.7 36.66N 142.21E 39–41 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=13.6km az=167.1.
IDC Error ellipse: s-maj=28.9km s-min=20.9km az=101.0.
ISC III 12 10 12 37.5–.57 36.82N–.06 142.46E–.06 9 4.0b 39 1-146
ISCJB III 12 10 12 36.1–.44 36.83N–.06 142.47E–.05 9 4.0b ¶16425374
IDC III 12 10 12 36.4–.57 36.81N 142.50E 0 4.1,4.0
JMA III 12 10 12 39.0–.30 36.83N 142.20E 1 4.7,4.0
NEIC III 12 10 12 41.7–.34 36.89N 142.44E 35 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.6km az=178.2.
IDC Error ellipse: s-maj=16.5km s-min=13.5km az=131.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.0km az=144.0.
ISC III 12 10 14 59.4–.77 36.16N–.07 142.16E–.10 23 3.8b 17 1-147
IDC III 12 10 14 55.9–.78 36.21N 142.29E 0 4.1,3.9 ¶16476903
ISCJB III 12 10 14 58.0–.68 36.10N–.05 142.09E–.09 23 3.9b,3.9
JMA III 12 10 15 23.4–.20 36.69N 141.02E 48–3 3.3,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=19.4km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.5km az=158.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 10 15 45.5–.71 37.1N–.10 142.52E–.06 9 4.1b 32 1-146
IDC III 12 10 15 44.0–.69 37.05N 142.57E 0 4.2,4.1b ¶17194364
ISCJB III 12 10 15 43.5–.50 37.09N–.07 142.58E–.05 9 4.1b,4.1b
JMA III 12 10 15 46.4–.40 37.16N 142.37E 0 4.6,4.1b
NEIC III 12 10 15 49.1–.37 37.11N 142.48E 35 4.4b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.3km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.6km az=168.0.
JMA Error ellipse: s-maj=4.4km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.7km az=141.0.
ISC III 12 10 17 26.7–.47 37.84N–.05 142.70E–.05 14 4.6s,4.2b 73 2-145
NIED III 12 10 17 00 37.90N 142.30E 32 4.5W,4.2b ¶16425376
IDC III 12 10 17 24.9–.49 37.89N 142.79E 0 4.5,4.5s
ISCJB III 12 10 17 25.0–.34 37.88N–.04 142.75E–.04 14 4.6s,4.2b
NEIC III 12 10 17 29.9–.32 37.90N 142.73E 35 4.4b,4.2b
JMA III 12 10 17 29.1–.30 37.89N 142.33E 0 4.8,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s243.00000°,δ84.00000°,λ6.00000°. NP2:ϕ_s152.00000°,δ84.00000°,λ174.00000°. $M_0$6.50000×10^{15}
IDC Error ellipse: s-maj=13.2km s-min=10.7km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=141.3.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=126.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 12 10 19 58.8–.67 37.2N–.10 143.7E–.10 35 4.2b 25 4-145
IDC III 12 10 19 53.4–.61 37.20N 143.79E 0 4.3,4.0 ¶16476905
NEIC III 12 10 19 56.4–4.7 37.21N 143.75E 18–29 4.6b,4.0
ISCJB III 12 10 19 56.6–.50 37.20N–.08 143.63E–.08 33 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 10 20 21.8–.28 37.20N–.03 143.49E–.04 28–1 5.4b,5.3s 1046 2-153
ISCJB III 12 10 20 17.6–1.0 37.19N–.02 143.49E–.02 9–6 5.2s,5.2b ¶17194366
IDC III 12 10 20 17.1–.33 37.10N 143.59E 0 4.9,4.9
JMA III 12 10 20 20.9–.50 37.02N 143.14E 0 5.3,4.9
NEIC III 12 10 20 21.2–1.1 37.15N 143.47E 22–7 5.5b,4.9
GCMT III 12 10 20 21.2–.20 37.17N 143.62E 12 5.3W,4.9
MOS III 12 10 20 22.1–.94 37.50N 143.42E 31 5.5b,5.2s
BJI III 12 10 20 22.1 37.37N 143.10E 26 5.7b,5.3s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.3km az=161.0.
IDC Error ellipse: s-maj=9.8km s-min=8.1km az=104.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c39; s91,c177; Duration: 1$\mathfrak{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.15±.03 $M_{\theta\theta}$0.59±.03; $M_{\phi\phi}$0.55±.02; $M_{r\theta}$-0.21±.10; $M_{\theta\phi}$0.46±.02; $M_{\phi r}$-0.03±.10; Best double couple: NP1:ϕ_s52.00000°,δ50.00000° ,λ-83.00000°. NP2:ϕ_s221.00000°,δ41.00000°,λ-98.00000°. Principal axes: T 1.0430,Plg4.0000°,Azm137.0000°; N 0.1280,Plg6.0000°,Azm227.0000° ; P -1.1750,Plg83.0000°,Azm8.0000° $M_0$1.10900×10^{17}
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=103.0.
JMA III 12 10 24 19.7–.90 38.59N 144.50E 50 4.9
¶602655911
JMA Error ellipse: s-maj=4.4km s-min=7.0km az=-1.0.
ISC III 12 10 27 50.0–1.2 37.4N–.10 142.9E–.20 21 3.8b 7 4-61
IDC III 12 10 27 47.6–1.2 37.14N 143.74E 0 4.0L,3.9 ¶17194369
ISC Event type ke.
IDC Error ellipse: s-maj=51.2km s-min=22.3km az=121.0.
ISC III 12 10 28 36.8–.86 37.3N–.10 142.44E–.09 21 4.1b 21 3-89
ISCJB III 12 10 28 35.0–.69 37.4N–.10 142.46E–.09 21 4.0b ¶16407495
IDC III 12 10 28 38.6–6.7 37.34N 142.36E 33–50 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=9.4km az=157.4.
IDC Error ellipse: s-maj=24.0km s-min=19.2km az=82.0.
ISC III 12 10 29 09.4–.64 37.21N–.10 143.3E–.10 35 4.1b 27 4-89
IDC III 12 10 29 04.4–.60 37.27N 143.29E 0 4.3,4.1 ¶16476909
ISCJB III 12 10 29 07.3–.48 37.21N–.07 143.23E–.09 33 4.1b,4.1
NEIC III 12 10 29 09.6–.37 37.27N 143.26E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=14.3km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=8.5km az=142.6.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.0km az=148.0.
ISC III 12 10 30 04.1–.58 37.08N–.07 143.49E–.08 35 4.4b 51 4-145
IDC III 12 10 29 59.1–.59 37.09N 143.53E 0 4.5,4.3 ¶17194370

ISCJB III 12 10 30 02.3–.48 37.15N–.06 143.46E–.06 33 4.3b,4.3
NEIC III 12 10 30 04.5–.36 37.19N 143.46E 35 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=14.4km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.2km az=149.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.9km az=143.0.
ISC III 12 10 33 46.9–.63 39.46N–.10 144.34E–.09 35 4.1b 38 6-87
ISCJB III 12 10 33 44.8–.50 39.47N–.07 144.29E–.09 35 4.0b **¶16461444**
IDC III 12 10 33 47.1–.66 39.48N 144.32E 38–4 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.0km az=138.2.
IDC Error ellipse: s-maj=15.2km s-min=12.1km az=131.0.
ISC III 12 10 34 47.6–.52 37.59N–.04 144.53E–.04 29–3 5.2b,4.7s 794 3-153
NIED III 12 10 34 00 37.50N 144.40E 23 5.1W,4.7s **¶602655895**
IDC III 12 10 34 42.5–.39 37.42N 144.61E 0 4.9,4.8L
ISCJB III 12 10 34 46.4–.14 37.69N–.03 144.43E–.02 27 5.1b,4.8s
GCMT III 12 10 34 47.4–.40 37.64N 144.44E 28–1 5.2W,4.8s
JMA III 12 10 34 47.0–.60 37.53N 144.38E 53 5.1,4.8s
NEIC III 12 10 34 47.4–.47 37.50N 144.45E 27–3 5.3b,4.8s
MOS III 12 10 34 47.6–.83 37.72N 144.44E 33 5.4b,4.8s
BJI III 12 10 34 48.6 37.81N 144.07E 25 5.4b,5.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ71.00000°,λ-170.00000°. NP2:ϕ_s74.00000°,δ81.00000°,λ-19.00000°. M_o4.40000×10^{16}
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.1km az=172.5.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s66,c98; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.52±.07 $M_{\theta\theta}$-0.02±.04; $M_{\phi\phi}$0.54±.04; $M_{r\theta}$-0.21±.08; $M_{\theta\phi}$0.53±.02; $M_{\phi r}$0.34±.06; Best double couple: NP1:ϕ_s180.00000°,δ62.00000°,λ-132.00000°. NP2:ϕ_s63.00000°,δ49.00000°,λ-38.00000°. Principal axes: T 0.8930,Plg8.0000°,Azm299.0000°; N -0.0780,Plg36.0000°,Azm203.0000°; P -0.8140,Plg53.0000°,Azm39.0000° M_o0.85300×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.9km az=159.0.
MOS Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=105.5.
ISC III 12 10 42 17.1–.82 39.76N–.07 143.20E–.06 29–4 4.6b 71 2-87
JMA III 12 10 42 14.0–.70 39.80N 143.23E 0 4.6 **¶16404900**
ISCJB III 12 10 42 16.4–.90 39.75N–.05 143.16E–.08 35–6 4.4b
NEIC III 12 10 42 18.5–.80 39.73N 143.07E 39–6 4.6b
IDC III 12 10 42 19.5–2.6 39.72N 143.10E 49–24 4.3,4.3
ISC Event type se.
JMA Error ellipse: s-maj=5.6km s-min=4.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=5.6km az=33.8.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.8km az=132.0.
IDC Error ellipse: s-maj=18.6km s-min=16.2km az=145.0.
ISC III 12 10 49 22.4–.43 37.32N–.06 143.22E–.06 24 4.6b 129 2-150
IDC III 12 10 49 18.7–.46 37.35N 143.29E 0 4.5,4.5 **¶602655877**
ISCJB III 12 10 49 21.3–.24 37.34N–.04 143.14E–.03 24 4.6b,4.5
JMA III 12 10 49 21.7–.30 37.17N 142.89E 0 4.5,4.5
NEIC III 12 10 49 24.7–1.9 37.46N 143.18E 33–13 4.7b,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=10.4km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.2km az=159.3.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.7km az=146.0.
ISC III 12 10 51 40.7–1.1 38.6N–.10 144.6E–.10 29 3.8b 13 5-87
IDC III 12 10 51 36.3–1.1 38.65N 144.61E 0 4.1,4.1 **¶16476916**
ISCJB III 12 10 51 38.8–.88 38.55N–.08 144.5E–.10 29 3.9b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 10 52 01.9–.53 37.35N–.07 143.79E–.07 35 4.3b 61 2-149
IDC III 12 10 51 56.6–.56 37.37N 143.93E 0 4.3,4.2 **¶17194377**
ISCJB III 12 10 51 59.8–.38 37.33N–.06 143.78E–.05 33 4.3b,4.2
NEIC III 12 10 51 59.7–2.0 37.34N 143.90E 21–14 4.4b,4.2
JMA III 12 10 52 12.9–.30 37.30N 142.33E 5–4 4.4,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=13.4km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.9km az=156.1.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.7km az=118.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 12 10 58 18.5–.59 37.29N–.07 143.26E–.07 35 4.5b 44 2-83
IDC III 12 10 58 13.8–.72 37.33N 143.27E 0 4.5,4.4 **¶602655868**
ISCJB III 12 10 58 16.4–.40 37.21N–.04 143.25E–.04 33 4.4b,4.4
NEIC III 12 10 58 18.7–.39 37.30N 143.28E 35 4.6b,4.4
JMA III 12 10 58 41.6–.30 37.28N 141.93E 30–4 4.0,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=15.5km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=164.8.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.1km az=123.0.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
JMA III 12 11 00 40.4–.80 37.91N 144.37E 48 4.4
¶602655861
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
ISC III 12 11 04 58.8–.44 37.41N–.06 143.75E–.06 35 4.8b 141 2-153
NIED III 12 11 04 00 37.40N 143.60E 8 4.6W **¶16476918**
IDC III 12 11 04 53.7–.48 37.42N 143.82E 0 4.7,4.5
ISCJB III 12 11 04 56.9–.27 37.42N–.05 143.73E–.03 33 4.7b,4.5
NEIC III 12 11 04 57.3–2.2 37.53N 143.89E 21–15 4.9b,4.5
JMA III 12 11 04 58.1–.30 37.37N 143.58E 39 4.8,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ45.00000°,λ-61.00000°. NP2:ϕ_s186.00000°,δ51.00000°,λ-116.00000°. M_o9.50000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.3km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=2.9km az=156.3.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=154.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 11 05 02.5–.90 39.38N–.08 143.07E–.08 18 4.4b 36 2-73
ISCJB III 12 11 05 00.2–.61 39.33N–.05 143.15E–.06 18 4.4b **¶17194379**
JMA III 12 11 05 01.6–.30 39.37N 143.17E 34 4.7
NEIC III 12 11 05 06.9–1.0 39.46N 143.12E 53–7 4.0b
IDC III 12 11 05 08.3–2.6 39.43N 143.02E 66–23 4.4,4.2
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=6.5km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=7.2km az=131.0.
IDC Error ellipse: s-maj=31.7km s-min=15.9km az=161.0.
ISC III 12 11 09 19.4–.86 37.2N–.10 143.7E–.10 35 4.3b 33 4-129
IDC III 12 11 09 14.0–.80 37.20N 143.76E 0 4.3,4.2 **¶16425379**
ISCJB III 12 11 09 16.9–.59 37.16N–.08 143.70E–.09 33 4.3b,4.2
NEIC III 12 11 09 19.2–.43 37.19N 143.68E 35 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=16.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.9km az=147.5.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.6km az=143.0.
ISC III 12 11 10 23.8–.55 36.86N–.07 142.93E–.08 25 4.3b 44 4-146
IDC III 12 11 10 20.4–.58 36.96N 142.90E 0 4.5,4.4 **¶602655830**
ISCJB III 12 11 10 21.6–.40 36.81N–.04 142.96E–.07 25 4.3b,4.4
NEIC III 12 11 10 25.2–.38 36.91N 142.91E 35 4.3b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=13.1km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.7km az=29.4.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.5km az=134.0.
ISC III 12 11 13 30.5–1.0 39.2N–.10 143.1E–.10 16 3.8b 14 5-80
ISCJB III 12 11 13 28.6–.77 39.24N–.09 143.1E–.10 16 3.8b **¶17194384**
IDC III 12 11 13 34.4–3.0 39.23N 142.95E 46–28 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=10.2km az=39.9.
IDC Error ellipse: s-maj=25.6km s-min=15.7km az=110.0.
ISC III 12 11 19 23.5–1.4 38.4N–.10 144.8E–.20 10 4.1b 9 6-69
ISCJB III 12 11 19 21.6–1.1 38.41N–.10 144.7E–.20 10 3.8b **¶16476929**
IDC III 12 11 19 21.8–1.3 38.46N 144.92E 0 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=13.9km az=14.5.
IDC Error ellipse: s-maj=35.9km s-min=20.4km az=94.0.
ISC III 12 11 34 50.9–.54 34.46N–.05 141.45E–.06 27 4.2b 58 0-148
IDC III 12 11 34 46.6–.61 34.41N 141.50E 0 4.4,4.3 **¶602655493**
JMA III 12 11 34 48.7–.70 34.39N 141.61E 25 3.5,4.3
ISCJB III 12 11 34 48.2–.42 34.41N–.04 141.65E–.06 27 4.2b,4.3
NEIC III 12 11 34 49.2–2.5 34.42N 141.54E 17–15 4.3b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.1km az=121.0.
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.4km az=13.3.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.7km az=86.0.
ISC III 12 11 36 51.2–.96 37.5N–.10 142.4E–.10 21 4.0b 8 3-63
ISCJB III 12 11 36 49.0–.89 37.5N–.10 142.4E–.10 21 3.8b **¶600541437**
IDC III 12 11 36 48.2–1.1 37.52N 142.36E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=12.2km az=141.6.
IDC Error ellipse: s-maj=40.0km s-min=19.6km az=125.0.
ISC III 12 11 37 57.9–.63 38.20N–.07 143.35E–.09 19 4.2b 42 4-150
ISCJB III 12 11 37 56.1–.47 38.23N–.05 143.35E–.08 19 4.2b **¶16425385**
NEIC III 12 11 38 01.3–.79 38.23N 143.28E 45–6 4.5b
IDC III 12 11 38 01.6–2.5 38.19N 143.27E 50–24 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.2km az=34.4.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.7km az=127.0.
IDC Error ellipse: s-maj=16.8km s-min=13.0km az=121.0.
ISC III 12 11 39 05.2–.73 37.56N–.06 142.76E–.07 28–4 4.6b 138 2-145
ISCJB III 12 11 39 02.8–1.6 37.61N–.04 142.75E–.05 19–11 4.6b **¶16310807**
JMA III 12 11 39 02.7–.40 37.50N 142.68E 6 4.5
NEIC III 12 11 39 06.0–1.6 37.64N 142.74E 31–11 4.8b
IDC III 12 11 39 06.3–2.9 37.55N 142.77E 36–23 4.5,4.4
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=141.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.3km az=134.0.
IDC Error ellipse: s-maj=13.7km s-min=11.3km az=117.0.
JMA III 12 11 43 05.8–.30 38.71N 144.52E 49 4.2
¶602655478
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 12 11 44 59.1–.57 36.66N–.08 143.41E–.07 35 4.3b 71 2-145
IDC III 12 11 44 53.5–.56 36.55N 143.63E 0 4.5,4.5s **¶16425386**
JMA III 12 11 44 56.9–.30 36.72N 143.37E 66 4.1,4.5s
ISCJB III 12 11 44 56.9–.35 36.62N–.05 143.41E–.04 33 4.7s,4.3b
NEIC III 12 11 44 58.5–.31 36.51N 143.56E 35 4.4b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.9km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=165.5.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.9km az=154.0.
ISC III 12 11 45 46.6–2.6 37.2N–.40 143.3E–.10 10 4.1b 16 11-76
IDC III 12 11 45 45.1–2.7 37.26N 143.26E 0 5.7,5.7s **¶16476939**
ISC Event type ke.
IDC Error ellipse: s-maj=69.0km s-min=20.4km az=0.0.
ISC III 12 11 52 13.8–.73 37.2N–.10 143.3E–.10 10 4.0b 14 4-76
ISCJB III 12 11 52 11.9–.58 37.27N–.09 143.4E–.10 10 3.9b **¶16476941**
IDC III 12 11 52 12.3–.72 37.30N 143.41E 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=10.1km az=37.7.
IDC Error ellipse: s-maj=29.8km s-min=15.5km az=119.0.
ISC III 12 11 52 57.5–.52 37.30N–.06 143.20E–.07 24 4.2b 50 2-145
ISCJB III 12 11 52 55.5–.39 37.31N–.05 143.22E–.05 24 4.2b **¶602655464**
NEIC III 12 11 52 56.1–2.4 37.36N 143.26E 14–15 4.5b
IDC III 12 11 52 59.6–.72 37.31N 143.19E 38–6 4.3,4.2
JMA III 12 11 53 21.5–.20 37.32N 141.95E 44 3.6,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.4km az=153.3.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.6km az=110.0.
IDC Error ellipse: s-maj=14.9km s-min=13.3km az=96.0.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISC III 12 11 57 50.5–.95 36.9N–.10 142.2E–.10 10 4.0b 16 1-64
ISCJB III 12 11 57 48.0–.73 36.74N–.10 142.38E–.09 10 3.9b **¶17194403**
IDC III 12 11 57 48.6–.84 36.74N 142.39E 0 4.1,3.9
JMA III 12 11 57 49.0–.50 36.87N 142.30E 10 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=10.1km az=167.8.
IDC Error ellipse: s-maj=24.3km s-min=17.2km az=118.0.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
ISC III 12 11 58 39.3–.70 39.6N–.10 143.4E–.10 11 4.3b 35 7-150
ISCJB III 12 11 58 37.5–.57 39.56N–.08 143.32E–.10 11 4.3b **¶16425388**
IDC III 12 11 58 38.1–1.0 39.66N 143.29E 0 4.4,4.3
NEIC III 12 11 58 40.4–4.0 39.59N 143.33E 18–25 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=10.1km az=150.5.
IDC Error ellipse: s-maj=26.1km s-min=18.3km az=172.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.7km az=119.0.
ISC III 12 11 59 26.0–.57 38.68N–.09 144.45E–.09 29 4.6b 56 11-148
IDC III 12 11 59 21.5–.51 38.67N 144.44E 0 4.6,4.5 **¶16476944**
ISCJB III 12 11 59 24.2–.40 38.67N–.06 144.39E–.07 29 4.5b,4.5
NEIC III 12 11 59 27.3–1.0 38.69N 144.40E 39–9 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=12.4km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.8km az=141.8.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=124.0.
ISC III 12 12 05 55.3–.88 37.0N–.10 143.78E–.10 35 4.1b 18 4-69
IDC III 12 12 05 50.2–.86 36.99N 143.77E 0 4.3L,4.2 **¶16442299**
ISCJB III 12 12 05 53.3–.64 36.87N–.08 143.81E–.08 33 4.1b,4.2
NEIC III 12 12 05 55.5–.50 36.97N 143.86E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=17.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=9.0km az=164.2.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=9.2km az=148.0.
ISC III 12 12 06 18.0–.66 37.2N–.10 142.61E–.07 9 4.3b 42 1-83
ISCJB III 12 12 06 15.7–.45 37.10N–.07 142.69E–.05 9 4.2b **¶16442303**
IDC III 12 12 06 16.1–.65 37.14N 142.68E 0 4.3,4.2
JMA III 12 12 06 17.5–.30 37.13N 142.48E 1 4.7,4.2
NEIC III 12 12 06 21.6–1.4 37.11N 142.67E 38–12 4.4b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=5.7km az=171.7.
IDC Error ellipse: s-maj=18.1km s-min=14.1km az=121.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.8km az=113.0.
ISC III 12 12 06 47.5–.54 39.79N–.04 143.18E–.05 10 4.8b 109 2-144
JMA III 12 12 06 44.7–.40 39.73N 143.44E 0 4.7 **¶16310810**
IDC III 12 12 06 45.8–.72 39.72N 143.19E 0 4.6,4.5
ISCJB III 12 12 06 45.5–.39 39.65N–.03 143.36E–.07 10 4.7b,4.5
NEIC III 12 12 06 57.1–1.8 40.04N 142.02E 28–13 4.9b,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=14.4km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.3km az=21.6.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.7km az=151.0.
ISC III 12 12 11 58.1–1.3 37.4N–.20 142.4E–.20 21 3.9b 6 3-58
IDC III 12 12 11 54.9–1.3 37.37N 142.49E 0 4.0,3.8 **¶16476952**
ISCJB III 12 12 11 55.9–1.2 37.3N–.20 142.5E–.20 21 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 12 12 24.0–.81 37.2N–.10 142.1E–.10 19 4.0b 27 3-151
IDC III 12 12 12 21.4–.72 37.26N 142.05E 0 4.0,3.9b **¶17194410**
ISCJB III 12 12 12 21.9–.60 37.16N–.08 142.06E–.09 19 3.9b,3.9b

NEIC III 12 12 12 26.8–1.3 37.23N 141.99E 39–11 4.6b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=16.2km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=8.5km az=147.7.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.6km az=129.0.
ISC III 12 12 13 48.0–.52 36.45N–.05 142.53E–.06 15 4.4b 85 2-146
NIED III 12 12 13 00 36.50N 142.60E 8 4.7W **¶16442305**
IDC III 12 12 13 45.9–.63 36.49N 142.53E 0 4.4,4.3
ISCJB III 12 12 13 46.2–.35 36.43N–.04 142.56E–.04 15 4.7s,4.3b
JMA III 12 12 13 47.6–.30 36.46N 142.60E 45 4.7,4.3b
NEIC III 12 12 13 50.9–.41 36.48N 142.55E 35 4.7b,4.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ37.00000°,λ91.00000°. NP2:ϕ_s14.00000°,δ53.00000°,λ89.00000°. $M_0$1.39000×10^{16}
IDC Error ellipse: s-maj=16.0km s-min=13.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.1km az=149.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.0km az=130.0.
JMA III 12 12 16 14.5–.50 34.85N 141.17E 41 3.5
¶16310811
JMA Error ellipse: s-maj=4.4km s-min=5.5km az=-1.0.
ISC III 12 12 17 22.2–1.8 37.26N–.04 142.34E–.05 2–10 4.7b 118 1-154
NIED III 12 12 17 00 37.20N 142.50E 5 4.9W **¶16442306**
ISCJB III 12 12 17 21.6–1.4 37.24N–.03 142.49E–.03 8–8 4.6b
JMA III 12 12 17 22.9–.30 37.22N 142.48E 18 4.8
IDC III 12 12 17 22.0–.44 37.26N 142.36E 0 4.6,4.6
NEIC III 12 12 17 23.0–2.1 37.25N 142.35E 7–13 4.9b,4.6
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s4.00000°,δ16.00000°,λ-46.00000°. NP2:ϕ_s139.00000°,δ78.00000°,λ-101.00000°. $M_0$2.79000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=154.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.7km s-min=10.2km az=128.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.5km az=123.0.
ISC III 12 12 22 58.2–.67 36.90N–.09 144.61E–.09 26 4.2b 34 5-149
IDC III 12 12 22 54.7–.73 36.92N 144.62E 0 4.3,4.1 **¶16442327**
ISCJB III 12 12 22 56.0–.51 36.86N–.06 144.60E–.08 26 4.1b,4.1
NEIC III 12 12 22 59.8–.47 36.97N 144.59E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=15.2km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=7.2km az=140.1.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=139.0.
ISC III 12 12 26 18.9–.72 36.14N–.08 142.4E–.10 18 3.9b 24 3-84
ISCJB III 12 12 26 16.0–.73 36.07N–.07 142.4E–.10 18 3.8b **¶17194415**
IDC III 12 12 26 20.4–.70 36.09N 142.40E 33–4 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=8.8km az=29.0.
IDC Error ellipse: s-maj=17.1km s-min=14.6km az=161.0.
ISC III 12 12 27 16.5–.56 39.75N–.05 144.45E–.05 24–3 4.7b 142 2-146
IDC III 12 12 27 12.5–.52 39.62N 144.50E 0 4.6,4.4 **¶602655427**
NEIC III 12 12 27 14.0–2.5 39.65N 144.47E 7–15 4.9b,4.4
JMA III 12 12 27 14.7–.20 39.76N 144.48E 46 4.4,4.4
ISCJB III 12 12 27 16.1–.23 39.77N–.03 144.33E–.03 30 4.6b,4.4
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 12 12 30 31.1–.92 37.6N–.10 143.95E–.10 35 4.1b 15 5-76
IDC III 12 12 30 25.7–.88 37.70N 144.03E 0 4.2,4.0b **¶17194416**
ISCJB III 12 12 30 28.7–.74 37.6N–.10 143.88E–.09 33 4.0b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 12 35 06.2–1.3 35.3N–.10 142.2E–.10 29 3.8b 14 1-76
IDC III 12 12 35 06.4–.84 36.03N 142.16E 0 4.0L,3.9 **¶600541495**
JMA III 12 12 35 15.3–.20 35.26N 141.31E 56–4 3.3,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=18.5km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 12 35 48.4–.64 36.97N–.09 143.33E–.09 35 4.2b 38 4-150
IDC III 12 12 35 43.2–.60 36.91N 143.42E 0 4.3,4.1 **¶17194417**
NEIC III 12 12 35 44.7–.39 36.95N 143.39E 10 4.3b,4.1
ISCJB III 12 12 35 46.2–.48 36.95N–.06 143.31E–.07 33 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 12 37 07.2–2.6 36.6N–.40 143.4E–.20 35 4.0b 12 11-77
IDC III 12 12 37 00.7–3.4 36.47N 143.38E 0 4.2,4.1 **¶603145348**
ISC Event type ke.
IDC Error ellipse: s-maj=81.3km s-min=25.8km az=178.0.
ISC III 12 12 37 52.7–1.0 39.1N–.20 143.3E–.20 20 4.1b 9 5-73
IDC III 12 12 37 49.5–.87 39.12N 143.27E 0 4.6s,4.6 **¶17194419**
ISCJB III 12 12 37 50.6–.78 39.1N–.10 143.2E–.20 20 4.0b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 12 42 51.6–.71 36.99N–.09 143.34E–.07 35 4.0b 26 2-145
IDC III 12 12 42 46.4–.68 36.95N 143.46E 0 4.2,4.1 **¶16476964**
ISCJB III 12 12 42 49.4–.56 36.98N–.07 143.29E–.06 33 4.0b,4.1
JMA III 12 12 42 50.1–.50 36.95N 143.19E 39 4.1,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=14.1km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.1km az=163.3.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 12 12 43 06.9–.48 36.55N–.05 143.71E–.06 24–2 4.6b 109 2-145
IDC III 12 12 43 03.3–.47 36.63N 143.82E 0 4.5,4.4 **¶17194422**
ISCJB III 12 12 43 06.5–.26 36.59N–.04 143.58E–.04 31 4.6b,4.4
JMA III 12 12 43 07.1–.30 36.86N 143.36E 28 4.5,4.4
NEIC III 12 12 43 08.8–.24 36.57N 143.68E 35 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=10.6km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=151.0.
IDC III 12 12 46 53.1–2.1 35.22N 142.55E 0 3.8,3.7
¶17194424
IDC Error ellipse: s-maj=53.7km s-min=26.9km az=151.0.
ISC III 12 12 50 28.4–.40 37.77N–.05 143.98E–.05 35 5.0b 280 3-153
IDC III 12 12 50 23.1–.52 37.66N 143.92E 0 4.8,4.7 **¶602656120**
JMA III 12 12 50 26.9–.50 37.61N 143.78E 40 4.8,4.7
ISCJB III 12 12 50 27.6–.25 37.80N–.04 143.81E–.03 33 5.4s,4.9b
MOS III 12 12 50 28.3–.92 37.94N 143.81E 34 5.3b,4.9b
NEIC III 12 12 50 29.1–.21 37.75N 143.83E 35 5.1b,4.9b
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=145.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=2.6km az=159.2.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=104.9.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.3km az=155.0.
ISC III 12 12 51 54.3–.98 39.25N–.08 143.01E–.09 16 4.5b 26 2-74
IDC III 12 12 51 51.9–1.4 39.14N 143.14E 0 4.6L,4.5 **¶16442330**
ISCJB III 12 12 51 52.5–.62 39.21N–.06 143.16E–.08 16 4.5b,4.5
JMA III 12 12 51 55.5–.20 39.25N 142.91E 21 4.8,4.5
NEIC III 12 12 51 55.9–3.4 39.18N 143.23E 30–24 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=38.1km s-min=20.7km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=10.3km s-min=6.7km az=136.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=8.2km az=115.0.
ISC III 12 12 53 51.6–.30 37.77N–.03 143.50E–.03 31–1 5.8s,5.8b 1774 2-163
NIED III 12 12 53 00 37.80N 142.80E 32 5.9W,5.8b **¶16310177**
IDC III 12 12 53 46.7–.28 37.71N 143.62E 0 5.5s,5.5
ISCJB III 12 12 53 48.8–.07 37.68N–.02 143.56E–.01 22 5.8s,5.7b
MOS III 12 12 53 49.9–.95 37.75N 143.56E 33 6.1b,5.8s
BJI III 12 12 53 52.1 37.87N 142.89E 19 6.0s,5.9
GCMT III 12 12 53 52.1–.10 37.71N 143.60E 21–0 5.9W,5.9
NEIC III 12 12 53 52.1–.90 37.73N 143.51E 34–6 5.8s,5.8b
JMA III 12 12 53 55.3–.50 37.76N 142.76E 2 5.9,5.8b
ISC Event type fe.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s328.00000°,δ73.00000°,λ177.00000°. NP2:ϕ_s58.00000°,δ88.00000°,λ17.00000°. $M_0$6.68000×10^{17}
IDC Error ellipse: s-maj=9.7km s-min=7.6km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.5km az=159.8.
MOS Error ellipse: s-maj=6.9km s-min=4.7km az=105.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c201; s135,c280; Duration: 2s^2 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.60±.01 $M_{\theta\theta}$-0.43±.01; $M_{\phi\phi}$1.02±.01; $M_{r\theta}$0.19±.02; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$0.41±.02; Best double couple: NP1:ϕ_s209.00000°,δ62.00000°,λ-66.00000°. NP2:ϕ_s346.00000°,δ36.00000°,λ-128.00000°. Principal axes: T 1.1840,Plg14.0000°,Azm282.0000°; N -0.4420,Plg21.0000°,Azm17.0000° ; P -0.7460,Plg64.0000°,Azm161.0000° $M_0$0.96500×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=136.0. Felt at Tokyo. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 12 12 57 17.3–.20 37.29N 142.04E 17–2 4.0
¶602656113
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 12 59 06.7–.30 37.67N 143.39E 43 4.4
¶602656106
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 12 13 01 15.9–.62 37.48N–.08 143.68E–.07 35 4.2b 39 2-145
IDC III 12 13 01 10.7–.66 37.50N 143.85E 0 4.3,4.1 **¶16476968**
ISCJB III 12 13 01 13.7–.46 37.48N–.06 143.69E–.05 33 4.1b,4.1
JMA III 12 13 01 13.9–.40 37.53N 143.43E 10 4.2,4.1
NEIC III 12 13 01 15.8–.38 37.46N 143.74E 35 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.0km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.0km az=162.7.
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.3km az=139.0.
ISC III 12 13 06 38.6–.74 37.5N–.10 144.28E–.09 35 3.9b 20 5-76
ISCJB III 12 13 06 36.4–.58 37.41N–.09 144.26E–.08 33 3.9b **¶17194426**
IDC III 12 13 06 38.5–6.5 37.43N 144.31E 33–50 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=7.7km az=159.1.
IDC Error ellipse: s-maj=26.2km s-min=14.3km az=108.0.
ISC III 12 13 07 25.8–1.1 38.1N–.20 144.1E–.10 35 3.9b 8 5-75
IDC III 12 13 07 20.4–1.1 38.07N 143.98E 0 4.2,4.0 **¶17194429**
ISCJB III 12 13 07 23.9–.96 38.1N–.10 144.0E–.10 33 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 13 09 42.9–.73 37.6N–.10 143.47E–.07 35 4.2b 54 2-83
IDC III 12 13 09 37.5–.70 37.48N 143.56E 0 4.3,4.1 **¶16461449**
ISCJB III 12 13 09 40.6–.49 37.50N–.07 143.51E–.05 33 4.2b,4.1
JMA III 12 13 09 41.5–.20 37.42N 143.22E 10 4.4,4.1
NEIC III 12 13 09 42.9–.50 37.54N 143.45E 35 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.5km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=4.4km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.1km az=141.0.
ISC III 12 13 12 46.7–1.9 37.7N–.10 144.4E–.20 35 4.0b 10 5-62
IDC III 12 13 12 40.9–1.9 37.77N 144.66E 0 4.1,4.1 **¶17194430**
ISCJB III 12 13 12 44.5–1.4 37.7N–.10 144.4E–.20 33 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 13 23 52.0–.43 36.19N–.04 142.05E–.05 21–4 4.8b 275 1-154
IDC III 12 13 23 49.0–.37 36.23N 141.93E 0 4.8,4.7 **¶17194436**
ISCJB III 12 13 23 50.3–1.1 36.17N–.03 142.06E–.04 21–7 4.8b,4.7
JMA III 12 13 23 51.1–.40 36.17N 142.02E 14 4.7,4.7
MOS III 12 13 23 51.9–.99 36.24N 142.00E 32 5.4b,4.7
NEIC III 12 13 23 53.2–1.6 36.20N 141.94E 28–11 5.4b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=11.3km s-min=10.0km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.7km az=17.5.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=6.0km az=103.3.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.4km az=116.0. Recorded [3 JMA] in Fukushima and Iwate.
ISC III 12 13 29 24.9–.53 38.55N–.08 143.32E–.08 15 4.5b 45 5-117
IDC III 12 13 29 22.5–.54 38.56N 143.42E 0 4.4,4.3 **¶16461454**
ISCJB III 12 13 29 23.0–.42 38.52N–.06 143.28E–.07 15 4.3b,4.3
NEIC III 12 13 29 27.7–.39 38.56N 143.25E 35 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=12.6km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.9km az=41.5.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.9km az=105.0.
ISC III 12 13 29 51.3–.42 36.10N–.06 142.09E–.06 23 4.6b 61 1-154
IDC III 12 13 29 48.0–.44 36.11N 142.14E 0 4.7,4.6 **¶16476982**
ISCJB III 12 13 29 49.6–.30 36.11N–.03 142.09E–.06 23 4.5b,4.6
JMA III 12 13 29 49.5–.60 35.46N 142.36E 58 4.4,4.6
NEIC III 12 13 29 53.0–.26 36.08N 142.07E 35 4.8b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=13.4km s-min=11.3km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.7km az=15.1.
JMA Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.9km az=138.0.
ISC III 12 13 30 16.1–.63 37.71N–.04 143.60E–.07 19 4.8b 61 2-144
IDC III 12 13 30 13.7–.76 37.59N 143.71E 0 4.8,4.8 **¶16476986**
ISCJB III 12 13 30 14.9–.46 37.71N–.03 143.51E–.05 19 4.8b,4.8
JMA III 12 13 30 17.8–.40 37.72N 143.43E 43 4.8,4.8
NEIC III 12 13 30 18.8–.66 37.72N 143.52E 35 4.9b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=14.1km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=29.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.9km az=107.0.
JMA III 12 13 33 11.3–.30 37.29N 142.22E 1–5 4.0
¶602655335
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 12 13 35 02.9–.56 36.56N–.06 142.16E–.06 19 4.0b 42 1-154
IDC III 12 13 35 00.1–.53 36.54N 142.20E 0 4.2,4.1 **¶602655333**
ISCJB III 12 13 35 00.8–.40 36.50N–.04 142.19E–.05 19 4.0b,4.1
JMA III 12 13 35 01.8–.20 36.66N 142.17E 29 4.6,4.1
NEIC III 12 13 35 05.1–.30 36.50N 142.14E 35 4.0b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=15.1km s-min=12.1km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.1km az=167.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.0km az=121.0.
ISC III 12 13 36 28.9–.65 37.26N–.06 143.72E–.09 35 4.0b 26 4-76
IDC III 12 13 36 24.7–.76 37.39N 143.69E 0 4.2,4.1 **¶16476989**
ISCJB III 12 13 36 27.0–.54 37.19N–.04 143.66E–.09 33 4.1b,4.1
NEIC III 12 13 36 29.4–.62 37.38N 143.53E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=16.7km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.4km az=5.4.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=10.6km az=98.0.
ISC III 12 13 47 16.8–1.3 39.60N–.08 144.22E–.09 11 3.6b 17 3-74
IDC III 12 13 47 14.6–2.2 39.53N 144.45E 0 3.9,3.7 **¶17194439**
ISCJB III 12 13 47 16.5–1.0 39.66N–.06 144.17E–.08 11 3.5b,3.7
JMA III 12 13 47 20.7–.20 39.67N 144.07E 44 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=60.2km s-min=27.5km az=163.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=8.4km az=142.9.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 13 48 44.8–.86 35.5N–.10 142.8E–.10 35 3.7b 15 2-78
IDC III 12 13 48 38.2–.88 35.66N 141.91E 0 4.0,3.8 ¶16476992
ISCJB III 12 13 48 42.6–.69 35.36N–.09 142.95E–.08 35 3.7b,3.8
JMA III 12 13 49 01.6–.20 35.36N 141.23E 22–3 4.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=36.6km s-min=17.8km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=13.6km s-min=9.6km az=169.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 12 13 48 47.9–.30 39.57N 143.03E 4–3 3.9
¶602655308
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 12 13 53 25.6–2.5 36.92N–.05 142.42E–.05 5–15 4.2b 73 1-146
NIED III 12 13 53 00 37.00N 142.40E 23 4.6W ¶16476999
JMA III 12 13 53 26.0–.40 36.98N 142.43E 5–5 4.3
NEIC III 12 13 53 30.9–1.1 36.89N 142.34E 45–10 4.5b
IDC III 12 13 53 31.0–1.9 36.90N 142.33E 44–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ33.00000°,λ-170.00000°. NP2:ϕ_s164.00000°,δ85.00000°,λ-57.00000°. $M_0$7.55000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.9km az=99.0.
IDC Error ellipse: s-maj=15.7km s-min=11.2km az=99.0.
ISC III 12 13 54 02.3–.70 37.7N–.10 144.1E–.20 35 4.3b 14 15-83
IDC III 12 13 53 56.8–.67 37.60N 144.18E 0 4.5,4.3 ¶602443439
ISCJB III 12 13 53 59.9–.61 37.60N–.09 144.1E–.20 33 4.2b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 13 59 52.5–1.3 38.1N–.20 144.6E–.20 35 4.1b 9 5-75
IDC III 12 13 59 47.2–1.5 38.09N 144.74E 0 4.8,4.8s ¶17194445
ISCJB III 12 13 59 50.2–1.1 38.0N–.20 144.6E–.20 33 4.8s,4.2b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 01 25.3–.80 38.8N–.10 144.6E–.10 19 4.0b 15 6-74
IDC III 12 14 01 22.5–.94 38.83N 144.69E 0 4.1,4.0 ¶17194446
ISCJB III 12 14 01 23.2–.69 38.8N–.10 144.6E–.10 19 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
JMA III 12 14 06 03.0–.10 36.65N 142.03E 14–2 4.6
¶602655282
JMA Event type fe.
ISC III 12 14 08 46.3–.57 37.67N–.07 143.70E–.07 35 4.4b 86 4-83
IDC III 12 14 08 41.3–.67 37.67N 143.75E 0 4.5,4.4 ¶16477004
ISCJB III 12 14 08 44.3–.41 37.70N–.06 143.66E–.05 33 4.3b,4.4
NEIC III 12 14 08 46.6–.44 37.75N 143.60E 35 4.4b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=12.7km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.6km az=148.8.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.6km az=137.0.
ISC III 12 14 08 59.3–.67 37.70N–.09 143.42E–.09 35 4.5b 56 4-116
IDC III 12 14 08 53.9–.67 37.69N 143.57E 0 4.5,4.4 ¶603049615
ISCJB III 12 14 08 56.9–.52 37.66N–.06 143.41E–.08 33 4.3b,4.4
NEIC III 12 14 08 59.2–.47 37.67N 143.35E 35 4.4b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=7.0km az=42.7.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=7.2km az=119.0.
ISC III 12 14 10 18.4–.58 36.24N–.07 142.61E–.06 18 4.3b 39 2-146
IDC III 12 14 10 15.8–.68 36.30N 142.63E 0 4.4,4.2 ¶16477008
ISCJB III 12 14 10 16.2–.41 36.18N–.05 142.70E–.06 18 4.2b,4.2
NEIC III 12 14 10 20.7–.34 36.24N 142.60E 35 4.2b,4.2
JMA III 12 14 10 43.4–.20 35.90N 140.94E 9–2 4.2,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=16.3km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=6.2km az=39.6.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.4km az=130.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 14 12 59.0–1.0 39.1N–.10 145.1E–.10 35 4.0b 14 11-82
IDC III 12 14 12 53.2–.90 39.01N 145.27E 0 4.9,4.9s ¶17194450
ISCJB III 12 14 12 57.3–.88 38.9N–.10 144.9E–.20 33 4.9s,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 25 11.6–.45 39.01N–.05 144.69E–.06 19 4.4b 88 3-145
IDC III 12 14 25 08.5–.48 38.89N 144.85E 0 4.5,4.4s ¶600541607
ISCJB III 12 14 25 09.8–.33 38.97N–.03 144.64E–.04 19 4.3b,4.4s
JMA III 12 14 25 13.6–.20 39.21N 144.57E 42 5.0,4.4s
NEIC III 12 14 25 13.7–.36 38.97N 144.65E 35 4.6b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=11.2km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.8km az=146.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.9km az=134.0.
ISC III 12 14 26 13.9–2.0 38.8N–.40 144.6E–.20 10 4.3b 10 13-87
ISCJB III 12 14 26 11.6–1.5 38.7N–.30 144.6E–.20 10 4.1b ¶17194455
IDC III 12 14 26 11.7–2.4 38.66N 144.69E 0 4.4,4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=44.7km s-min=15.4km az=161.5.
IDC Error ellipse: s-maj=69.2km s-min=27.8km az=173.0.
ISC III 12 14 28 11.4–.86 38.7N–.10 144.8E–.10 43 3.7b 20 6-75
IDC III 12 14 28 06.5–1.2 38.86N 144.85E 0 4.2,4.1 ¶17194456
ISCJB III 12 14 28 09.2–.66 38.62N–.10 144.8E–.10 43 3.8b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 30 33.6–4.0 40.14N–.06 144.40E–.07 6–26 4.2b 55 2-117
IDC III 12 14 30 32.3–.90 40.00N 144.49E 0 4.2,4.2 ¶16461460
ISCJB III 12 14 30 34.1–1.7 40.15N–.04 144.38E–.05 19–13 4.0b,4.2
JMA III 12 14 30 35.8–.30 40.19N 144.40E 42 4.2,4.2
NEIC III 12 14 30 37.7–.47 40.01N 144.30E 35 4.0b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=19.2km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.6km az=136.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.3km az=110.0.
ISC III 12 14 31 03.9–.69 36.3N–.10 143.1E–.10 29 4.3b 20 4-146
IDC III 12 14 30 59.5–.81 36.31N 143.18E 0 4.3,4.2 ¶17194457
ISCJB III 12 14 31 01.9–.58 36.23N–.09 143.2E–.10 29 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 14 35 05.5–1.9 37.8N–.30 143.9E–.20 35 4.7b 19 14-83
IDC III 12 14 34 58.0–.95 37.38N 143.78E 0 4.8,4.7 ¶17194460
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.2km az=153.0.
ISC III 12 14 40 17.5–.78 36.75N–.08 142.33E–.09 15 4.0b 18 3-146
ISCJB III 12 14 40 15.7–.66 36.74N–.07 142.33E–.09 15 4.0b ¶17194462
IDC III 12 14 40 20.5–6.4 36.81N 142.25E 33–49 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.7km az=38.7.
IDC Error ellipse: s-maj=27.8km s-min=19.3km az=84.0.
ISC III 12 14 42 07.0–1.4 37.6N–.10 142.0E–.10 24 3.9b 11 1-74
IDC III 12 14 42 01.0–1.2 37.89N 143.01E 0 4.0,3.8 ¶17194463
ISCJB III 12 14 42 05.0–1.1 37.6N–.10 142.2E–.10 24 3.9b,3.8
JMA III 12 14 42 08.6–.30 37.58N 141.95E 22–4 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=35.4km s-min=24.2km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=8.5km az=156.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 12 14 53 20.2–.60 37.63N–.06 143.85E–.07 26–3 4.7b 114 4-153
ISCJB III 12 14 53 16.0–2.1 37.61N–.05 143.77E–.04 7–13 4.6b ¶16310818
IDC III 12 14 53 16.1–.52 37.63N 143.92E 0 4.5,4.4
NEIC III 12 14 53 21.7–.24 37.60N 143.79E 35 4.9b,4.4
ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=4.8km az=154.5.
IDC Error ellipse: s-maj=14.1km s-min=11.8km az=137.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.1km az=154.0.
ISC III 12 15 03 29.3–.59 39.86N–.06 143.68E–.08 6 4.3b 69 2-81
ISCJB III 12 15 03 27.4–.41 39.81N–.04 143.63E–.07 6 4.3b ¶16461396
NEIC III 12 15 03 32.4–2.1 39.88N 143.55E 26–14 4.3b
IDC III 12 15 03 33.4–4.4 39.85N 143.61E 33–33 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.7km az=29.2.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=5.7km az=109.0.
IDC Error ellipse: s-maj=16.7km s-min=11.9km az=107.0.
ISC III 12 15 08 41.1–1.1 37.01N–.09 142.5E–.10 35 3.6b 11 1-77
ISCJB III 12 15 08 37.7–.71 37.00N–.06 142.54E–.08 35 3.8b ¶16461463
IDC III 12 15 08 42.6–3.2 36.94N 142.42E 63–30 3.7,3.6
JMA III 12 15 08 57.0–.10 36.74N 140.65E 10–3 2.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.9km az=36.7.
IDC Error ellipse: s-maj=33.2km s-min=14.3km az=93.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 12 15 09 17.5–.68 38.16N–.09 143.95E–.09 35 4.0b 38 5-83
ISCJB III 12 15 09 15.5–.49 38.15N–.06 143.94E–.07 33 4.0b ¶17194466
NEIC III 12 15 09 18.4–1.4 38.18N 143.89E 41–11 4.1b
IDC III 12 15 09 20.3–2.8 38.20N 143.86E 56–25 4.5,4.5s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.8km az=138.3.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.3km az=95.0.
IDC Error ellipse: s-maj=17.8km s-min=13.1km az=102.0.
ISC III 12 15 13 54.5–.44 37.70N–.05 142.90E–.06 24 4.6b 91 2-150
IDC III 12 15 13 51.1–.50 37.72N 142.94E 0 4.5,4.3 ¶17194468
ISCJB III 12 15 13 52.7–.24 37.68N–.03 142.91E–.04 24 4.5b,4.3
JMA III 12 15 13 53.0–.30 37.62N 142.70E 0 5.2,4.3
NEIC III 12 15 13 55.9–.30 37.69N 142.81E 35 5.2,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.4km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.2km az=136.4.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.3km az=139.0.
ISC III 12 15 16 44.1–.96 38.3N–.10 144.4E–.10 35 4.1b 13 11-72
IDC III 12 15 16 38.6–.82 38.16N 144.47E 0 4.2,4.1 ¶17194470
ISCJB III 12 15 16 41.5–.76 38.2N–.10 144.5E–.20 33 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 15 17 48.9–.64 38.42N–.06 144.36E–.08 29 4.2b 45 4-83
ISCJB III 12 15 17 47.1–.46 38.41N–.05 144.34E–.07 29 4.1b ¶16477030
NEIC III 12 15 17 49.8–.46 38.43N 144.35E 35 4.3b
IDC III 12 15 17 49.8–4.0 38.43N 144.40E 33–31 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=39.2.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.8km az=119.0.
IDC Error ellipse: s-maj=17.4km s-min=13.1km az=101.0.
ISC III 12 15 18 55.7–2.2 37.2N–.40 143.8E–.20 35 3.9b 7 5-82
IDC III 12 15 18 51.5–2.7 37.31N 143.82E 0 4.1,3.9 ¶17194472
ISCJB III 12 15 18 54.2–2.2 37.3N–.40 143.8E–.20 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 15 23 46.9–.97 37.0N–.20 144.5E–.10 10 3.8b 9 5-76
ISCJB III 12 15 23 44.9–.76 37.0N–.10 144.4E–.10 10 3.8b ¶16461397
IDC III 12 15 23 45.4–.84 37.02N 144.47E 0 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=13.4km az=153.2.
IDC Error ellipse: s-maj=34.4km s-min=18.1km az=120.0.
ISC III 12 15 26 00.9–.59 37.90N–.08 144.29E–.09 35 4.2b 44 4-144
IDC III 12 15 25 55.8–.60 37.92N 144.40E 0 4.3,4.2 ¶16461468
ISCJB III 12 15 25 58.9–.44 37.88N–.05 144.25E–.08 33 4.2b,4.2
NEIC III 12 15 26 00.9–.44 37.91N 144.28E 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=14.4km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=7.0km az=25.8.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.6km az=136.0.
ISC III 12 15 29 45.5–1.2 37.2N–.10 144.6E–.10 26 3.7b 10 5-61
IDC III 12 15 29 41.4–1.2 37.31N 144.76E 0 4.2L,3.9 ¶17194475
ISCJB III 12 15 29 43.4–1.0 37.2N–.10 144.6E–.10 26 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 12 15 32 35.9–1.2 37.85N 143.46E 0 3.9,3.6
¶17194477
IDC Error ellipse: s-maj=47.6km s-min=27.0km az=92.0.
ISC III 12 15 34 27.5–.61 39.41N–.08 144.75E–.08 38 4.4s,4.2b 44 3-87
IDC III 12 15 34 21.8–.55 39.31N 144.87E 0 4.3,4.2 ¶602655051
ISCJB III 12 15 34 25.7–.43 39.39N–.05 144.62E–.07 38 4.4s,4.2b
NEIC III 12 15 34 27.0–.45 39.38N 144.73E 35 4.6b,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=16.0km s-min=12.3km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=7.1km az=41.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.3km az=142.0.
ISC III 12 15 40 51.8–1.1 36.9N–.20 142.8E–.20 25 4.0b 9 23-77
IDC III 12 15 40 47.2–.80 36.80N 142.76E 0 4.2,4.0 ¶17194480
ISCJB III 12 15 40 49.1–.78 36.8N–.10 142.7E–.20 25 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 12 15 41 52.4–2.5 38.90N 143.73E 0 4.3,4.3L
¶17194481
IDC Error ellipse: s-maj=65.7km s-min=31.8km az=64.0.
ISC III 12 15 43 18.2–.79 37.06N–.09 142.48E–.07 9 3.9b 23 1-77
IDC III 12 15 43 15.5–.72 37.13N 143.11E 0 4.1,3.9 ¶602655031
ISCJB III 12 15 43 15.5–.56 37.01N–.07 142.73E–.07 9 3.9b,3.9
NEIC III 12 15 43 19.7–.64 37.24N 142.55E 35 4.3b,3.9
JMA III 12 15 43 20.3–.40 36.95N 142.31E 9 4.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=16.3km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.7km az=8.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=10.3km az=125.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 12 15 44 32.1–.75 36.81N–.09 142.4E–.10 9 4.3b 37 3-83
ISCJB III 12 15 44 30.1–.53 36.75N–.06 142.45E–.08 9 4.3s,4.1b ¶602655027
NEIC III 12 15 44 36.0–.47 36.82N 142.32E 35 4.3b,4.1b
IDC III 12 15 44 38.1–2.8 36.80N 142.31E 52–24 4.1,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.5km az=39.0.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=6.6km az=125.0. Recorded [3 JMA] in Nagano.
IDC Error ellipse: s-maj=20.0km s-min=15.5km az=109.0.
IDC III 12 15 48 44.7–1.4 36.22N 142.39E 0 3.7,3.6
¶603049627
IDC Error ellipse: s-maj=36.2km s-min=26.9km az=109.0.
IDC III 12 15 51 16.8–13 38.72N 143.87E 0 4.0,3.8b
¶17194483
IDC Error ellipse: s-maj=282.0km s-min=58.2km az=6.0.
ISC III 12 15 52 39.0–.83 37.04N–.09 142.72E–.08 9 4.0b 31 2-74
ISCJB III 12 15 52 36.7–.56 37.01N–.06 142.78E–.05 9 3.9b ¶16477043
IDC III 12 15 52 36.9–.86 37.02N 142.99E 0 4.1,3.9
JMA III 12 15 52 38.7–.40 37.14N 142.60E 2 4.6,3.9
NEIC III 12 15 52 41.8–.75 36.98N 142.75E 35 4.0b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.9km az=177.1.
IDC Error ellipse: s-maj=21.0km s-min=18.2km az=114.0.
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=11.3km az=135.0.
IDC III 12 15 53 56.2–8.8 37.82N 142.37E 0 4.1,4.0
¶17194484
IDC Error ellipse: s-maj=213.4km s-min=32.0km az=168.0.

ISC III 12 15 54 17.5–.00 37.0N–.20 142.5E–.20 9 4.0b 11 27-75
ISCJB III 12 15 54 15.3–.79 37.0N–.10 142.6E–.20 9 3.9b ¶600541769
IDC III 12 15 54 16.1–.81 37.03N 142.49E 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.9km s-min=16.2km az=21.9.
IDC Error ellipse: s-maj=26.1km s-min=17.5km az=105.0.
ISC III 12 15 58 32.0–.54 38.00N–.06 143.04E–.08 18 4.3b 54 4-85
ISCJB III 12 15 58 30.0–.38 37.99N–.04 143.06E–.07 18 4.2b ¶16461472
NEIC III 12 15 58 32.1–2.4 38.06N 142.97E 17–15 4.5b
IDC III 12 15 58 36.0–2.1 37.99N 142.96E 47–20 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=24.6.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.3km az=105.0.
IDC Error ellipse: s-maj=15.6km s-min=12.4km az=99.0.
ISC III 12 16 01 55.0–1.0 36.6N–.20 143.5E–.10 35 4.0b 10 4-76
IDC III 12 16 01 49.7–.90 36.64N 143.55E 0 4.1,3.9 ¶602655803
ISCJB III 12 16 01 52.7–.85 36.6N–.10 143.5E–.20 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 16 03 54.5–.60 36.95N–.04 142.25E–.05 29–4 4.7b 183 1-147
NIED III 12 16 03 00 37.00N 142.30E 20 4.7W ¶16310819
IDC III 12 16 03 50.7–.45 37.01N 142.19E 0 4.6,4.6L
JMA III 12 16 03 52.5–.30 37.01N 142.30E 14–4 4.8,4.6L
ISCJB III 12 16 03 55.4–.65 36.95N–.03 142.21E–.04 45–5 4.7b,3.5s
NEIC III 12 16 03 56.1–.25 37.04N 142.11E 35 4.8b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ19.00000°,λ111.00000°. NP2:ϕ_s7.00000°,δ73.00000°,λ83.00000°. $M_0$1.27000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=10.7km az=122.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.8km az=9.5.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=141.0.
ISC III 12 16 08 09.7–1.6 38.2N–.30 143.4E–.10 19 4.3b 12 4-76
IDC III 12 16 08 05.9–2.0 38.05N 143.48E 0 4.5,4.3 ¶17194496
ISCJB III 12 16 08 07.6–1.4 38.2N–.20 143.4E–.20 19 4.3b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 16 12 01.0–.63 37.43N–.06 143.64E–.07 35 4.2b 49 2-83
IDC III 12 16 11 56.3–.66 37.46N 143.84E 0 4.4,4.3 ¶16461473
ISCJB III 12 16 11 59.9–.43 37.50N–.04 143.60E–.04 33 4.2b,4.3
NIED III 12 16 12 00 37.50N 143.50E 17 4.4W,4.3
JMA III 12 16 12 00.9–.30 37.51N 143.48E 42 4.9,4.3
NEIC III 12 16 12 01.6–.68 37.57N 143.68E 35 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=12.9km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=151.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ72.00000°,λ-10.00000°. NP2:ϕ_s146.00000°,δ80.00000°,λ-161.00000°. $M_0$3.91000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.7km az=129.0.
ISC III 12 16 14 13.4–.77 38.83N–.07 143.80E–.10 23 4.0b 28 3-145
IDC III 12 16 14 09.1–1.6 38.82N 143.84E 0 4.1,4.0b ¶16477059
ISCJB III 12 16 14 11.6–.69 38.91N–.06 143.7E–.10 23 4.0b,4.0b
NEIC III 12 16 14 15.2–.81 38.98N 143.75E 35 4.6b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=39.0km s-min=22.0km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=6.2km az=30.1.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=9.0km az=117.0.
IDC III 12 16 18 29.1–6.2 36.80N 142.52E 0 4.0,3.9
¶16477060
IDC Error ellipse: s-maj=110.7km s-min=48.0km az=114.0.
ISC III 12 16 19 01.8–.48 38.29N–.07 144.01E–.07 14 4.7b 152 4-144
IDC III 12 16 18 59.4–.51 38.29N 144.10E 0 4.4,4.3 ¶17194497
ISCJB III 12 16 19 00.9–.23 38.42N–.05 143.94E–.04 14 4.6b,4.3
NEIC III 12 16 19 05.2–.21 38.35N 143.90E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=11.1km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.7km az=157.7.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.0km az=155.0.
ISC III 12 16 22 13.6–.36 37.89N–.05 144.71E–.05 35 4.9b,4.3s 364 3-153
IDC III 12 16 22 08.5–.46 37.87N 144.83E 0 4.7,4.6 ¶16310191
NEIC III 12 16 22 09.8–2.7 37.91N 144.75E 8–16 5.0b,4.6
GCMT III 12 16 22 09.8–.60 38.06N 144.86E 24–1 5.1W,4.6
ISCJB III 12 16 22 12.0–.19 37.87N–.04 144.67E–.02 33 4.8b,4.3s
JMA III 12 16 22 13.4–.30 37.81N 144.50E 38 4.7,4.3s
MOS III 12 16 22 13.1–.98 38.01N 144.75E 37 5.1b,4.3s
BJI III 12 16 22 15.4 38.27N 144.50E 34 5.2b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=10.9km az=135.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=153.0.
GCMT Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s58,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.14±.53 $M_{\theta\theta}$2.72±.31; $M_{\phi\phi}$3.42±.33; $M_{r\theta}$0.99±.49; $M_{\theta\phi}$1.07±.16; $M_{\phi r}$-0.41±.43; Best double couple: NP1:ϕ_s224.00000°,δ47.00000°,λ-80.00000°. NP2:ϕ_s29.00000°,δ44.00000°,λ-100.00000°. Principal axes: T 4.2020,Plg1.0000°,Azm307.0000°; N 2.0760,Plg7.0000°,Azm37.0000°; P -6.2780,Plg83.0000°,Azm205.0000° $M_0$5.24000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=2.3km az=171.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.3km az=100.4.
ISC III 12 16 28 28.2–.84 37.4N–.10 142.76E–.08 21 3.7b 18 1-89
IDC III 12 16 28 25.1–.74 37.39N 142.84E 0 4.0s,4.0 ¶600541819
ISCJB III 12 16 28 26.4–.64 37.39N–.10 142.77E–.06 21 4.0s,3.7b
JMA III 12 16 28 29.3–.50 37.54N 142.43E 0 4.2,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=17.1km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=6.3km az=167.2.
JMA Error ellipse: s-maj=5.6km s-min=3.5km az=-1.0.
ISC III 12 16 33 42.6–.69 38.74N–.07 144.07E–.09 14 4.1b 37 3-145
ISCJB III 12 16 33 40.7–.55 38.75N–.05 144.08E–.08 14 4.0b ¶600541823
IDC III 12 16 33 41.1–.74 38.75N 144.19E 0 4.1,4.0
NEIC III 12 16 33 45.6–.72 38.95N 143.94E 35 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.0km az=37.1.
IDC Error ellipse: s-maj=18.8km s-min=15.3km az=150.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=9.8km az=133.0.
JMA III 12 16 34 24.5–.50 37.07N 142.14E 29 4.0
¶602655752
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
ISC III 12 16 36 41.5–.39 38.05N–.04 143.90E–.06 35 4.9b 212 2-153
IDC III 12 16 36 36.5–.47 37.99N 143.96E 0 4.7,4.7 ¶17194501
JMA III 12 16 36 37.9–.70 37.96N 144.03E 44 5.4,4.7
ISCJB III 12 16 36 40.0–.21 38.01N–.03 143.85E–.03 33 4.8b,4.7
NEIC III 12 16 36 41.8–.25 38.07N 143.85E 35 4.9b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=10.8km az=134.0.
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.0km az=162.3.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.5km az=154.0.
ISC III 12 16 38 44.9–.41 37.82N–.06 144.28E–.05 35 4.8b,4.5s 158 4-153
IDC III 12 16 38 40.1–.49 37.80N 144.34E 0 4.6,4.5 ¶16310825
ISCJB III 12 16 38 43.2–.23 37.86N–.05 144.23E–.04 33 4.8b,4.5s
BJI III 12 16 38 45.0 38.14N 143.91E 25 5.1b,4.7b
NEIC III 12 16 38 45.0–.31 37.94N 144.20E 35 4.9b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=11.6km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.4km az=157.7.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=5.9km az=150.0.
ISC III 12 16 44 45.1–1.2 37.61N–.09 144.1E–.20 35 4.1b 16 4-76
IDC III 12 16 44 42.0–.74 37.56N 143.97E 0 4.1,4.0 ¶16477067
NEIC III 12 16 44 46.8–.66 37.60N 143.81E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=15.9km az=112.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=9.9km az=117.0.
ISC III 12 16 48 09.8–.85 37.54N–.05 142.12E–.05 13–5 4.7b 157 1-146
NIED III 12 16 48 00 37.50N 142.00E 20 4.4W ¶16310826
IDC III 12 16 48 08.2–.49 37.55N 142.09E 0 4.6,4.5b
ISCJB III 12 16 48 09.0–1.5 37.52N–.03 142.15E–.03 15–9 4.6b,4.5b
NEIC III 12 16 48 11.1–2.5 37.60N 142.06E 19–15 4.7b,4.5b
JMA III 12 16 48 11.4–.20 37.49N 142.03E 22–3 4.6,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ37.00000°,λ-65.00000°. NP2:ϕ_s91.00000°,δ57.00000°,λ-107.00000°. $M_0$4.24000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=11.8km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.7km az=160.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 12 16 49 13.8–.71 37.63N–.07 143.64E–.09 35 4.2b 27 4-76
IDC III 12 16 49 09.1–.75 37.71N 143.76E 0 4.3,4.2 ¶16477074
ISCJB III 12 16 49 11.4–.54 37.58N–.05 143.62E–.08 33 4.2b,4.2
NEIC III 12 16 49 14.0–.67 37.62N 143.60E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=17.0km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.6km az=25.1.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=11.2km az=121.0.
ISC III 12 16 51 33.9–.99 38.2N–.20 144.0E–.20 35 4.0b 8 47-75
IDC III 12 16 51 28.6–.82 38.18N 144.00E 0 4.2,4.0 ¶17194508
ISCJB III 12 16 51 31.7–.79 38.1N–.10 143.9E–.20 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 12 16 53 05.0–1.4 36.13N 142.82E 0 3.8,3.8
¶17194509
IDC Error ellipse: s-maj=37.6km s-min=24.7km az=91.0.
ISC III 12 16 54 28.6–1.4 38.0N–.20 143.1E–.10 18 3.9b 9 4-74
IDC III 12 16 54 25.9–1.4 37.98N 143.08E 0 4.0,3.9 ¶17194510
ISCJB III 12 16 54 26.3–1.1 38.0N–.10 143.2E–.10 18 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 16 55 39.9–.63 37.92N–.06 143.85E–.06 29–3 4.7b 155 4-145
IDC III 12 16 55 35.8–.49 37.94N 143.91E 0 4.5,4.3 ¶602655734
ISCJB III 12 16 55 40.4–.27 38.03N–.05 143.76E–.05 39 4.6b,4.3
NEIC III 12 16 55 41.0–.28 37.98N 143.77E 35 4.8b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=11.7km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.4km az=152.7.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.5km az=149.0.
ISC III 12 17 00 33.8–.94 36.7N–.20 143.8E–.10 35 4.0b 14 12-89
IDC III 12 17 00 28.3–.96 36.59N 143.78E 0 4.2,4.0 ¶16477078
ISCJB III 12 17 00 31.8–.85 36.7N–.10 143.7E–.20 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 17 01 20.1–.41 37.72N–.04 143.40E–.04 26–2 5.0b,4.6s 441 2-159
BJI III 12 17 01 14.6 37.86N 143.65E 10 5.1b,4.8b ¶17194511
JMA III 12 17 01 19.3–.70 37.66N 143.36E 32 5.0,4.8b
NEIC III 12 17 01 19.2–1.9 37.72N 143.35E 16–11 5.1b,4.8b
ISCJB III 12 17 01 20.3–.17 37.72N–.03 143.34E–.03 34 5.0b,4.8s
IDC III 12 17 01 21.3–.49 37.67N 143.41E 34–3 4.6,4.5
MOS III 12 17 01 21.7–.90 38.05N 143.28E 35 5.2b,4.5
ISC Event type se.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.0km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.5km az=154.8.
IDC Error ellipse: s-maj=12.3km s-min=9.9km az=145.0.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=98.4.
ISC III 12 17 06 22.7–.79 37.89N–.10 144.0E–.10 35 4.5b 43 5-87
IDC III 12 17 06 17.8–.80 37.99N 144.05E 0 4.2,4.1 ¶16461405
ISCJB III 12 17 06 21.4–.63 38.03N–.09 143.97E–.10 33 4.3b,4.1
NEIC III 12 17 06 23.1–.60 37.99N 143.98E 35 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=15.9km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=9.4km az=147.6.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.1km az=143.0.
ISC III 12 17 07 47.8–1.1 37.5N–.10 142.4E–.10 35 4.1b 10 3-69
ISCJB III 12 17 07 45.6–.90 37.4N–.10 142.4E–.20 35 4.0b ¶16461479
IDC III 12 17 07 49.2–3.6 37.45N 142.28E 48–34 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=15.2km az=15.6.
IDC Error ellipse: s-maj=33.8km s-min=17.6km az=95.0.
ISC III 12 17 08 45.7–.54 36.85N–.07 142.89E–.08 25 4.4b 57 4-154
ISCJB III 12 17 08 43.6–.43 36.78N–.05 142.91E–.07 25 4.3b ¶17194513
NEIC III 12 17 08 47.5–.39 37.00N 142.88E 35 4.5b
IDC III 12 17 08 47.5–.72 36.90N 142.94E 36–4 4.2,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.7km az=31.7.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.5km az=146.0.
IDC Error ellipse: s-maj=14.4km s-min=12.4km az=150.0.
ISC III 12 17 10 31.0–.55 37.98N–.07 142.79E–.06 18 4.4b 71 2-89
ISCJB III 12 17 10 29.1–.37 37.99N–.04 142.82E–.05 18 4.3b ¶602655697
JMA III 12 17 10 30.3–.40 37.99N 142.56E 2 4.5
NEIC III 12 17 10 32.6–1.8 38.03N 142.79E 28–13 4.7b
IDC III 12 17 10 34.6–2.1 38.05N 142.71E 42–19 4.2,4.1
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=148.9.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=115.0.
IDC Error ellipse: s-maj=16.9km s-min=13.1km az=125.0.
ISC III 12 17 11 07.8–.39 38.00N–.05 144.02E–.05 24–2 5.1s,5.0b 269 4-144
NEIC III 12 17 11 05.9–2.5 38.00N 143.94E 10–15 5.2b,5.0b ¶16477081
BJI III 12 17 11 07.0 38.35N 143.90E 20 5.2b,5.2s
ISCJB III 12 17 11 07.7–.21 37.98N–.04 143.95E–.04 34 5.0s,4.9b
MOS III 12 17 11 07.2–1.1 38.05N 143.96E 33 5.2b,4.9b
IDC III 12 17 11 09.0–.38 37.96N 144.08E 36–2 4.4,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=156.1.
MOS Error ellipse: s-maj=10.2km s-min=7.2km az=102.1.
IDC Error ellipse: s-maj=11.4km s-min=9.1km az=121.0.
ISC III 12 17 13 21.3–.96 37.4N–.10 142.36E–.08 21 4.4b 15 1-89
ISCJB III 12 17 13 19.2–.79 37.4N–.10 142.45E–.07 21 4.2b ¶17194515
JMA III 12 17 13 21.6–.30 37.45N 142.26E 16 4.4
IDC III 12 17 13 25.8–4.2 37.45N 142.31E 61–37 4.1,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.5km az=169.9.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=37.6km s-min=18.8km az=89.0.
ISC III 12 17 16 24.6–.68 37.68N–.08 143.48E–.08 32–4 4.5b 96 4-145
NEIC III 12 17 16 23.7–1.7 37.69N 143.48E 24–11 4.6b ¶16461406
ISCJB III 12 17 16 23.6–.39 37.64N–.06 143.42E–.06 35 4.5b
IDC III 12 17 16 25.3–.58 37.68N 143.45E 36–5 4.4,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.3km az=146.5.
IDC Error ellipse: s-maj=13.8km s-min=10.6km az=130.0.
ISC III 12 17 19 23.6–.63 36.47N–.03 142.63E–.03 13–3 5.6s,5.2b 648 2-154
NIED III 12 17 19 00 36.50N 142.60E 5 5.5W,5.2b ¶602655679
BJI III 12 17 19 20.8 36.80N 142.70E 10 6.0s,5.8
IDC III 12 17 19 21.1–.42 36.44N 142.66E 0 5.3,5.3s
JMA III 12 17 19 21.1–.30 36.53N 142.62E 2 5.6,5.3s
ISCJB III 12 17 19 22.6–.14 36.55N–.02 142.52E–.02 10 5.6s,5.0b
GCMT III 12 17 19 23.9–.10 36.47N 142.94E 12 5.6W,5.0b
NEIC III 12 17 19 23.9–.19 36.52N 142.48E 10 5.8W,5.5s
MOS III 12 17 19 25.0–1.3 36.65N 142.64E 36 5.5s,5.4b

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ49.00000°,λ122.00000°. NP2:ϕ_s180.00000°,δ50.00000°,λ59.00000°. $M_0$2.10000×10^{17}
IDC Error ellipse: s-maj=11.4km s-min=10.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=156.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c140; s130,c273; Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}2.24±.03 $M_{\theta\theta}$-0.46±.03; $M_{\phi\phi}$-1.77±.03; $M_{r\theta}$0.88±.09; $M_{\theta\phi}$-0.95±.02; $M_{\phi r}$1.67±.08; Best double couple: NP1:ϕ_s28.00000°,δ65.00000°,λ90.00000°. NP2:ϕ_s208.00000°,δ25.00000°,λ90.00000°. Principal axes: T 2.9270,Plg70.0000°,Azm298.0000°; N 0.0360,Plg0.0000°,Azm208.0000°; P -2.9560,Plg20.0000°,Azm118.0000° $M_0$2.94100×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=152.0. Moment Tensor Solution. s30 Moment tensor: Scale 10^{17}Nm; M_{rr}5.83 $M_{\theta\theta}$-0.71 $M_{\phi\phi}$-5.11 $M_{r\theta}$-2.66 $M_{\theta\phi}$0.14 $M_{\phi r}$2.12 Best double couple: NP1:ϕ_s192.00000°,δ36.00000°,λ119.00000°. NP2:ϕ_s338.00000°,δ59.00000°,λ71.00000°. Principal axes: T 7.0900,Plg69.0000°,Azm207.0000°; N -1.4900,Plg16.0000°,Azm348.0000°; P -5.6000,Plg12.0000°,Azm82.0000° $M_0$6.50000×10^{17}
MOS Error ellipse: s-maj=7.3km s-min=4.8km az=108.0.

ISC	**III**	**12 17 24 03.0–.68**	**37.38N–.08**	**143.4E–.10**	**35**	**4.2b**	**31**	**4-89**
ISCJB	III	12 17 24 00.7–.56	37.22N–.08	143.33E–.08	33	4.1b		**¶602655655**
NEIC	III	12 17 24 02.9–.55	37.33N	143.39E	35	4.4b		
IDC	III	12 17 24 03.6–.63	37.26N	143.35E	41–6	4.1,4.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=9.4km az=162.8.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.3km az=135.0.
IDC Error ellipse: s-maj=15.9km s-min=14.5km az=104.0.

ISC	**III**	**12 17 29 56.8–.68**	**38.6N–.10**	**144.34E–.10**	**29**	**3.9b**	**25**	**5-87**
ISCJB	III	12 17 29 54.3–.65	38.53N–.09	144.3E–.10	29	3.8b		**¶17194521**
IDC	III	12 17 29 57.3–.61	38.52N	144.40E	36–4	3.8,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=9.6km az=146.6.
IDC Error ellipse: s-maj=15.7km s-min=13.1km az=112.0.

ISC	**III**	**12 17 30 32.4–.83**	**37.5N–.10**	**142.32E–.08**	**21**	**3.9b**	**19**	**1-89**
ISCJB	III	12 17 30 30.4–.64	37.4N–.10	142.36E–.07	21	3.9b		**¶17194524**
IDC	III	12 17 30 34.4–1.0	37.53N	142.36E	34–7	4.0,4.0		
JMA	III	12 17 30 44.4–.40	36.66N	141.31E	28	3.5,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=7.4km az=168.3.
IDC Error ellipse: s-maj=21.8km s-min=17.5km az=158.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

ISC	**III**	**12 17 38 32.6–.61**	**39.15N–.07**	**144.73E–.06**	**24–2**	**4.1b**	**62**	**3-145**
ISCJB	III	12 17 38 29.9–1.7	39.16N–.04	144.67E–.05	18–12	4.1b		**¶16477094**
NEIC	III	12 17 38 32.5–.95	39.04N	144.75E	28–6	4.5b		
JMA	III	12 17 38 32.4–.40	39.21N	144.66E	54	4.2		
IDC	III	12 17 38 32.8–.72	38.95N	144.81E	32–3	4.0,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.9km az=150.2.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.3km az=135.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=12.0km az=149.0.

ISC	**III**	**12 17 43 31.6–.52**	**36.30N–.04**	**142.13E–.06**	**26–2**	**4.6b**	**118**	**1-84**
JMA	III	12 17 43 26.4–.60	36.37N	142.46E	19	4.6		**¶600542017**
ISCJB	III	12 17 43 31.3–.35	36.31N–.04	142.15E–.06	36	4.5b		
NEIC	III	12 17 43 32.4–.38	36.31N	142.15E	35	4.8b		
IDC	III	12 17 43 32.5–.54	36.22N	142.16E	35–3	4.4,4.3		

ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.8km az=29.5.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=111.0.
IDC Error ellipse: s-maj=13.7km s-min=11.1km az=107.0.

ISC	**III**	**12 17 46 39.2–1.1**	**37.3N–.10**	**142.8E–.20**	**24**	**3.8b**	**8**	**4-61**
IDC	III	12 17 46 35.6–1.0	37.31N	142.89E	0	3.9,3.8		**¶16477098**
ISCJB	III	12 17 46 37.0–.92	37.3N–.10	142.9E–.20	24	3.8b,3.8		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 17 47 03.0–1.5**	**37.4N–.20**	**144.2E–.20**	**35**	**4.1b**	**14**	**5-70**
IDC	III	12 17 47 00.1–1.1	37.79N	144.08E	0	4.0,4.0		**¶17194526**
NEIC	III	12 17 47 06.8–1.4	37.42N	143.72E	35	4.5b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=21.2km az=104.0.
NEIC Event type se. Error ellipse: s-maj=23.1km s-min=18.7km az=77.0.

ISC	**III**	**12 17 48 13.1–.47**	**37.29N–.05**	**143.50E–.05**	**29–2**	**4.7b**	**106**	**2-150**
ISCJB	III	12 17 48 09.8–1.7	37.24N–.04	143.45E–.04	18–12	4.6b		**¶602655560**
NEIC	III	12 17 48 11.5–.86	37.25N	143.54E	18–5	4.8b		
JMA	III	12 17 48 12.2–.20	37.15N	143.13E	4	4.6		
IDC	III	12 17 48 14.7–.45	37.25N	143.51E	42–3	4.5,4.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.4km az=145.2.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.5km az=136.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=9.0km az=135.0.

ISC	**III**	**12 17 51 19.5–1.0**	**37.8N–.10**	**143.6E–.10**	**19**	**3.9b**	**19**	**4-76**
IDC	III	12 17 51 16.8–1.1	37.94N	143.65E	0	4.0,3.9b		**¶603049643**
ISCJB	III	12 17 51 17.5–.85	37.79N–.08	143.6E–.10	19	3.8b,3.9b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 17 51 28.1–.40**	**38.08N–.05**	**143.89E–.05**	**35**	**4.7b**	**203**	**3-144**
NEIC	III	12 17 51 21.1–.31	37.77N	143.20E	10	4.9b		**¶16477099**
JMA	III	12 17 51 25.6–.50	38.14N	143.97E	45	4.8		
ISCJB	III	12 17 51 27.6–.24	38.22N–.03	143.80E–.03	33	4.7b		
IDC	III	12 17 51 28.4–.51	37.92N	143.84E	42–5	4.6,4.5		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.0km az=144.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.8km az=168.6.
IDC Error ellipse: s-maj=12.5km s-min=10.1km az=126.0.

ISC	**III**	**12 17 55 57.2–.59**	**37.74N–.05**	**143.33E–.07**	**35**	**4.2b**	**51**	**2-145**
JMA	III	12 17 55 55.3–.90	37.87N	143.30E	39	4.6		**¶17194533**
ISCJB	III	12 17 55 55.4–.45	37.77N–.05	143.27E–.05	33	4.2b		
NEIC	III	12 17 55 57.5–.39	37.76N	143.30E	35	4.5b		
IDC	III	12 17 55 57.2–4.5	37.71N	143.32E	33–34	4.1,4.0		

ISC Event type se.
JMA Error ellipse: s-maj=4.4km s-min=7.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=157.8.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.8km az=133.0.
IDC Error ellipse: s-maj=18.5km s-min=14.2km az=116.0.

ISC	**III**	**12 17 59 57.8–.51**	**37.48N–.05**	**143.68E–.06**	**29–2**	**4.6b**	**116**	**2-144**
ISCJB	III	12 17 59 54.4–1.4	37.50N–.04	143.67E–.04	16–10	4.5b		**¶16310834**
JMA	III	12 17 59 57.5–.30	37.47N	143.57E	53	4.7		
NEIC	III	12 17 59 58.5–.34	37.48N	143.74E	35	4.7b		
IDC	III	12 17 59 59.5–.55	37.48N	143.77E	41–4	4.4,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.3km az=146.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=146.0.
IDC Error ellipse: s-maj=13.0km s-min=10.5km az=122.0.

ISC	**III**	**12 18 14 40.9–.56**	**38.53N–.08**	**144.76E–.08**	**43**	**4.1b**	**48**	**6-87**
NEIC	III	12 18 14 38.1–3.4	38.53N	144.79E	19–21	4.5b		**¶602654938**
ISCJB	III	12 18 14 39.4–.45	38.53N–.06	144.65E–.07	43	4.1b		
IDC	III	12 18 14 40.2–.63	38.55N	144.75E	31–4	4.0,4.0		

ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.2km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.0km az=140.7.
IDC Error ellipse: s-maj=15.2km s-min=11.7km az=111.0.

ISC	**III**	**12 18 22 26.1–.98**	**37.3N–.10**	**144.1E–.10**	**35**	**3.7b**	**12**	**5-70**
ISCJB	III	12 18 22 23.8–.90	37.2N–.10	144.1E–.10	33	3.7b		**¶17194535**
IDC	III	12 18 22 26.1–1.0	37.26N	144.17E	34–7	3.8,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.5km s-min=13.6km az=151.9.
IDC Error ellipse: s-maj=27.3km s-min=20.8km az=112.0.

IDC	**III**	**12 18 25 41.3–8.6**	**36.17N**	**143.50E**	**0**	**3.7,3.5**		
								¶17194537

IDC Error ellipse: s-maj=192.0km s-min=47.5km az=36.0.

ISC	**III**	**12 18 27 36.3–1.1**	**36.4N–.20**	**143.7E–.20**	**35**	**3.5b**	**6**	**4-63**
IDC	III	12 18 27 31.2–.99	36.41N	143.76E	0	4.1s,4.1		**¶17194538**
ISCJB	III	12 18 27 33.5–.96	36.4N–.20	143.9E–.10	33	4.1s,3.6b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 18 28 43.8–1.0**	**35.1N–.20**	**142.1E–.30**	**29**	**3.7b**	**7**	**44-76**
IDC	III	12 18 28 39.1–.99	35.04N	142.12E	0	3.8,3.7		**¶17194539**
ISCJB	III	12 18 28 41.5–.94	35.0N–.10	142.2E–.40	29	3.7b,3.7		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 18 30 05.3–1.2**	**38.7N–.20**	**144.9E–.20**	**43**	**3.6b**	**6**	**11-69**
IDC	III	12 18 29 59.1–1.2	38.64N	145.12E	0	4.0,3.8		**¶17194540**
ISCJB	III	12 18 30 03.2–1.1	38.7N–.20	144.9E–.30	43	3.7b,3.8		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 18 33 50.3–1.7**	**36.88N–.09**	**142.1E–.10**	**19**	**3.7b**	**13**	**1-57**
IDC	III	12 18 33 46.4–2.2	37.04N	142.42E	0	3.8,3.8		**¶16477119**
ISCJB	III	12 18 33 48.2–1.2	36.85N–.07	142.2E–.10	19	3.8b,3.8		
JMA	III	12 18 33 50.6–.30	36.94N	142.08E	14–4	4.2,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=56.4km s-min=25.1km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=8.0km az=151.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC	**III**	**12 18 34 23.8–.91**	**37.6N–.10**	**144.3E–.20**	**35**	**4.0b**	**15**	**5-144**
IDC	III	12 18 34 18.4–.82	37.52N	144.36E	0	4.1,3.9		**¶17194541**
ISCJB	III	12 18 34 21.7–.72	37.5N–.10	144.3E–.20	33	4.0b,3.9		
NEIC	III	12 18 34 23.1–.77	37.43N	144.17E	35	4.6b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=21.0km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=15.0km az=176.6.
NEIC Event type se. Error ellipse: s-maj=22.8km s-min=14.6km az=106.0.

ISC	**III**	**12 18 36 12.8–1.0**	**39.4N–.10**	**144.7E–.10**	**35**	**4.0b**	**20**	**6-79**
IDC	III	12 18 36 07.4–.98	39.35N	144.86E	0	4.1,3.9		**¶16477120**
ISCJB	III	12 18 36 10.8–.81	39.3N–.10	144.7E–.10	35	4.0b,3.9		
NEIC	III	12 18 36 12.7–.67	39.34N	144.75E	35	4.1b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=25.0km s-min=19.8km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=13.0km az=140.2.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=11.3km az=132.0.

ISC	**III**	**12 18 38 37.6–.51**	**37.63N–.06**	**143.42E–.07**	**34–1**	**4.7b**	**192**	**4-145**
NEIC	III	12 18 38 36.6–1.7	37.70N	143.39E	22–12	4.8b		**¶16310837**
ISCJB	III	12 18 38 36.3–.25	37.66N–.05	143.37E–.04	32	4.7b		
IDC	III	12 18 38 37.6–.51	37.71N	143.45E	32–2	4.5,4.4		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.0km az=156.3.
IDC Error ellipse: s-maj=12.4km s-min=10.3km az=151.0.

ISC	**III**	**12 18 43 02.4–1.1**	**37.7N–.20**	**144.3E–.10**	**35**	**4.0b**	**7**	**5-73**
IDC	III	12 18 42 57.3–1.0	37.67N	144.37E	0	4.2,3.9		**¶17194543**
ISCJB	III	12 18 43 00.2–.92	37.6N–.20	144.3E–.10	33	3.9b,3.9		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 18 45 24.7–.59**	**38.61N–.06**	**144.78E–.07**	**29**	**4.2b**	**60**	**3-87**
JMA	III	12 18 45 21.9–.60	38.59N	144.85E	50	4.6		**¶16477122**
ISCJB	III	12 18 45 22.8–.42	38.57N–.04	144.72E–.05	29	4.2b		
NEIC	III	12 18 45 22.9–2.9	38.52N	144.85E	18–18	4.4b		
IDC	III	12 18 45 24.8–.65	38.51N	144.88E	30–4	4.2,4.1		

ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=5.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.1km az=139.1.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=121.0.
IDC Error ellipse: s-maj=15.2km s-min=12.4km az=93.0.

ISC	**III**	**12 18 47 24.0–.76**	**37.9N–.20**	**143.9E–.10**	**35**	**4.0b**	**13**	**11-84**
ISCJB	III	12 18 47 22.6–.72	38.0N–.10	143.7E–.20	33	4.1b		**¶17194544**
IDC	III	12 18 47 25.0–.69	38.07N	143.60E	38–5	4.1,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=15.7km az=145.4.
IDC Error ellipse: s-maj=33.1km s-min=14.4km az=115.0.

ISC	**III**	**12 18 56 34.7–1.3**	**37.6N–.20**	**144.8E–.20**	**35**	**3.8b**	**6**	**12-62**
IDC	III	12 18 56 29.4–1.3	37.57N	144.86E	0	4.0,3.8		**¶17194548**
ISCJB	III	12 18 56 32.0–1.2	37.6N–.20	144.7E–.30	33	3.8b,3.8		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 19 01 04.4–.48**	**36.51N–.04**	**142.19E–.06**	**23–2**	**4.7b**	**136**	**1-146**
ISCJB	III	12 19 01 02.0–1.4	36.51N–.03	142.19E–.05	16–9	4.6b,4.2s		**¶600542233**
JMA	III	12 19 01 03.9–.50	36.64N	142.19E	55	4.7,4.2s		
IDC	III	12 19 01 06.4–.49	36.58N	142.10E	30–3	4.4,4.3		
NEIC	III	12 19 01 08.2–.98	36.64N	142.01E	48–8	4.7b,4.3		

ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.7km az=13.5.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.2km az=106.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.9km az=115.0.

ISC	**III**	**12 19 08 53.8–.71**	**37.66N–.09**	**143.47E–.10**	**35**	**4.2b**	**41**	**4-88**
IDC	III	12 19 08 48.6–.65	37.64N	143.52E	0	4.3,4.1		**¶17194552**
ISCJB	III	12 19 08 51.7–.51	37.67N–.06	143.44E–.08	33	4.1b,4.1		
NEIC	III	12 19 08 54.1–1.1	37.67N	143.44E	37–8	4.4b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=15.5km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.9km az=33.2.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.1km az=129.0.

ISC	**III**	**12 19 09 55.8–.85**	**36.6N–.10**	**142.4E–.10**	**15**	**3.7b**	**9**	**3-77**
IDC	III	12 19 09 53.7–.82	36.68N	142.39E	0	4.1L,4.0		**¶17194557**
ISCJB	III	12 19 09 54.1–.73	36.6N–.10	142.4E–.20	15	3.7b,4.0		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**12 19 11 59.0–.29**	**37.68N–.03**	**142.75E–.04**	**21**	**5.2s,5.1b**	**471**	**2-154**
NIED	III	12 19 11 00	37.70N	142.60E	5	5.5W,5.1b		**¶602654781**
IDC	III	12 19 11 55.9–.40	37.65N	142.71E	0	4.9,4.9		
JMA	III	12 19 11 56.5–.40	37.66N	142.60E	1	5.3,4.9		
BJI	III	12 19 11 57.0	37.76N	142.70E	25	5.4b,5.4s		
NEIC	III	12 19 11 57.0–2.1	37.71N	142.61E	5–12	5.1b,5.4s		
GCMT	III	12 19 11 57.0–.20	37.88N	142.51E	12	5.3W,5.4s		
ISCJB	III	12 19 11 58.4–.14	37.78N–.02	142.60E–.02	21	5.3s,5.0b		
MOS	III	12 19 11 59.7–.95	37.92N	142.63E	27	5.6s,5.3b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ10.00000°,λ-34.00000°. NP2:ϕ_s236.00000°,δ84.00000°,λ-98.00000°. $M_0$1.78000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=106.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c86; s109,c194; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.49±.01 $M_{\theta\theta}$0.33±.01; $M_{\phi\phi}$0.15±.01; $M_{r\theta}$0.82±.03; $M_{\theta\phi}$0.08±.01; $M_{\phi r}$0.74±.03; Best double couple: NP1:ϕ_s229.00000°,δ80.00000°,λ-94.00000°. NP2:ϕ_s69.00000°,δ11.00000°,λ-71.00000°. Principal axes: T 1.1120,Plg35.0000°,Azm322.0000°; N 0.1500,Plg4.0000°,Azm230.0000°; P -1.2620,Plg55.0000°,Azm135.0000° $M_0$1.18700×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=151.9.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=104.2.

ISC	**III**	**12 19 18 42.9–1.1**	**39.2N–.10**	**144.6E–.10**	**19**	**3.7b**	**7**	**6-72**
ISCJB	III	12 19 18 40.8–1.0	39.2N–.10	144.5E–.20	19	3.6b		**¶17194558**
IDC	III	12 19 18 40.0–1.1	39.18N	144.57E	0	3.9,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.9km s-min=15.5km az=142.3.
IDC Error ellipse: s-maj=29.8km s-min=22.6km az=129.0.

ISC	**III**	**12 19 20 50.7–1.0**	**38.4N–.20**	**144.7E–.20**	**29**	**3.7b**	**8**	**11-75**

IDC III 12 19 20 46.4–.93 38.30N 144.79E 0 3.9,3.7 **¶17194560**
ISCJB III 12 19 20 48.6–.82 38.3N–.10 144.6E–.20 29 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 19 22 44.9–.49 37.13N–.04 142.33E–.05 20–2 4.9b 283 1-154
NIED III 12 19 22 00 37.10N 142.30E 14 4.7W **¶16310841**
JMA III 12 19 22 41.3–.50 37.10N 142.31E 1–4 4.9
ISCJB III 12 19 22 44.6–.17 37.16N–.03 142.25E–.03 24 4.8b
NEIC III 12 19 22 45.4–1.8 37.23N 142.20E 17–11 4.9b
IDC III 12 19 22 46.0–.52 37.18N 142.28E 25–3 4.6,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s240.00000°,δ40.00000°,λ49.00000°. NP2:ϕ_s109.00000°,δ61.00000°,λ119.00000°. $M_0$1.11000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.7km az=166.8.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.0km az=140.0.
IDC Error ellipse: s-maj=11.0km s-min=10.0km az=129.0.
JMA III 12 19 28 21.3–.70 39.39N 143.68E 9 4.4
¶600542284
JMA Error ellipse: s-maj=6.7km s-min=3.4km az=-1.0.
IDC III 12 19 32 28.6–1.4 36.95N 142.22E 0 4.0,3.7b
¶16477138
IDC Error ellipse: s-maj=46.7km s-min=28.9km az=133.0.
ISC III 12 19 32 46.8–1.0 37.0N–.20 142.82E–.08 25 4.0b 26 2-89
IDC III 12 19 32 45.3–2.1 37.40N 142.76E 0 4.2,4.0 **¶17194561**
NEIC III 12 19 32 48.1–1.1 37.11N 142.83E 35 4.8b,4.0
JMA III 12 19 32 52.7–.40 38.33N 142.28E 12 4.2,4.0
ISC Event type se.
IDC Error ellipse: s-maj=52.0km s-min=19.7km az=163.0.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=12.3km az=141.0.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISC III 12 19 36 48.1–1.5 36.2N–.20 142.1E–.20 23 3.8b 10 1-80
IDC III 12 19 36 44.7–2.0 36.16N 142.02E 0 3.9,3.9b **¶16461489**
ISCJB III 12 19 36 46.5–1.3 36.2N–.10 142.1E–.20 23 3.9b,3.9b
JMA III 12 19 36 57.4–.60 36.13N 141.23E 40 3.2,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=50.1km s-min=26.9km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=19.3km az=148.1.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
ISC III 12 19 43 45.0–.45 38.08N–.06 143.34E–.06 19 4.7b 144 2-91
IDC III 12 19 43 41.1–.60 38.17N 143.54E 0 4.4,4.2 **¶16310843**
JMA III 12 19 43 41.7–.60 38.19N 143.72E 52 4.8,4.2
ISCJB III 12 19 43 44.0–.26 38.15N–.04 143.31E–.04 19 4.5b,4.2
NEIC III 12 19 43 46.9–2.6 38.24N 143.21E 28–19 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.7km az=149.0.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=5.2km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.5km az=152.3.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.5km az=138.0.
ISC III 12 19 45 44.7–.93 37.4N–.10 144.4E–.10 35 4.0b 12 5-75
IDC III 12 19 45 39.7–.96 37.60N 144.53E 0 4.3,4.1 **¶17194565**
ISCJB III 12 19 45 42.7–.85 37.5N–.10 144.4E–.10 33 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 19 48 50.3–.94 37.9N–.10 143.8E–.10 35 3.7b 13 5-73
ISCJB III 12 19 48 47.9–.76 37.92N–.07 143.8E–.10 33 3.8b **¶17194566**
IDC III 12 19 48 51.7–4.2 38.15N 143.60E 39–46 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=9.3km az=23.2.
IDC Error ellipse: s-maj=38.8km s-min=30.2km az=156.0.
ISC III 12 19 48 53.8–.92 38.15N–.07 144.50E–.09 35 4.2b 43 3-75
IDC III 12 19 48 47.5–.95 37.84N 144.59E 0 4.3,4.1 **¶16461490**
JMA III 12 19 48 51.4–.80 38.16N 144.52E 43 4.6,4.1
ISCJB III 12 19 48 52.7–.73 38.23N–.04 144.39E–.08 33 4.1b,4.1
NEIC III 12 19 48 52.2–.87 37.88N 144.43E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=19.5km az=71.0.
JMA Error ellipse: s-maj=5.6km s-min=5.2km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.8km az=10.8.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=13.1km az=88.0.
ISC III 12 19 50 55.7–1.6 37.14N–.10 142.46E–.09 9 3.7b 13 1-61
IDC III 12 19 50 52.5–2.3 37.13N 143.06E 0 4.0L,3.9 **¶17194568**
JMA III 12 19 50 57.3–.40 37.25N 142.42E 13 4.2,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=54.9km s-min=29.6km az=64.0.
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
ISC III 12 19 55 27.5–.45 37.37N–.05 142.42E–.05 21 4.4b 90 1-146
NEIC III 12 19 55 25.9–2.2 37.41N 142.41E 8–13 4.5b **¶600542312**
IDC III 12 19 55 25.0–.52 37.41N 142.40E 0 4.4,4.3
ISCJB III 12 19 55 25.9–.29 37.33N–.04 142.43E–.04 21 4.3b,4.3
JMA III 12 19 55 27.5–.40 37.52N 142.21E 0 4.4,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.8km az=117.0.
IDC Error ellipse: s-maj=14.5km s-min=11.9km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.9km az=145.5.
JMA Error ellipse: s-maj=4.4km s-min=2.6km az=-1.0.
ISC III 12 19 58 18.1–.80 39.4N–.10 144.6E–.10 23 3.6b 16 6-74
IDC III 12 19 58 14.7–.73 39.42N 144.58E 0 3.9,3.7 **¶16477150**
ISCJB III 12 19 58 15.9–.63 39.41N–.10 144.6E–.10 23 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 19 58 59.8–.40 37.98N–.05 143.00E–.05 18 4.7b 201 2-145
IDC III 12 19 58 57.1–.50 38.01N 142.95E 0 4.5,4.4 **¶602654727**
JMA III 12 19 58 57.9–.90 37.90N 142.85E 0 4.8,4.4
ISCJB III 12 19 58 58.8–.20 37.98N–.03 142.91E–.03 18 4.7b,4.4
NEIC III 12 19 59 00.1–.49 38.05N 142.83E 15–3 4.8b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.5km az=133.0.
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=7.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.1km az=154.1.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=2.9km az=144.0.
ISC III 12 19 59 59.7–.83 39.3N–.10 143.6E–.10 11 4.1b 14 3-87
IDC III 12 19 59 58.3–.90 39.32N 143.72E 0 4.3,4.0 **¶16477154**
ISCJB III 12 19 59 58.0–.72 39.3N–.10 143.6E–.10 11 4.0b,4.0
NEIC III 12 20 00 03.2–.82 39.36N 143.56E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=27.7km s-min=20.4km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=17.6km s-min=12.8km az=141.3.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=14.3km az=140.0.
ISC III 12 20 04 38.2–1.2 38.4N–.20 143.5E–.20 15 3.5b 6 5-76
IDC III 12 20 04 35.8–.93 38.35N 143.99E 0 3.8,3.5 **¶17194577**
ISC Event type ke.
IDC Error ellipse: s-maj=36.4km s-min=21.6km az=102.0.
ISC III 12 20 09 54.8–.40 36.74N–.04 144.06E–.04 26–2 5.1b,4.5s 764 3-156
NIED III 12 20 09 00 36.80N 143.80E 8 4.9W,4.5s **¶16310848**
IDC III 12 20 09 50.5–.37 36.70N 144.22E 0 4.9,4.8
MOS III 12 20 09 54.1–1.0 36.74N 144.06E 32 5.2b,4.1s
ISCJB III 12 20 09 54.3–.11 36.73N–.03 144.03E–.02 32 5.0b,4.4s
JMA III 12 20 09 55.5–.30 36.79N 143.82E 42 4.8,4.4s
BJI III 12 20 09 55.5 37.08N 143.74E 24 5.2b,5.0b
GCMT III 12 20 09 56.3–.30 36.81N 144.03E 16–1 5.1W,5.0b
NEIC III 12 20 09 56.3–.14 36.75N 143.99E 35 5.2b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ26.00000°,λ-105.00000°. NP2:ϕ_s222.00000°,δ64.00000°,λ-83.00000°. $M_0$2.78000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.8km az=119.0.
MOS Error ellipse: s-maj=6.9km s-min=4.9km az=114.1.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.0km az=164.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c30; s85,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.24±.26 $M_{\theta\theta}$1.34±.16; $M_{\phi\phi}$2.90±.17; $M_{r\theta}$-0.56±.47; $M_{\theta\phi}$1.69±.09; $M_{\phi r}$2.57±.47; Best double couple: NP1:ϕ_s193.00000°,δ60.00000°,λ-109.00000°. NP2:ϕ_s48.00000°,δ35.00000°,λ-60.00000°. Principal axes: T 4.4240,Plg13.0000°,Azm297.0000°; N 0.8190,Plg17.0000°,Azm203.0000°; P -5.2430,Plg69.0000°,Azm63.0000° $M_0$4.83400×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.0km az=150.0.
ISC III 12 20 13 58.8–.74 38.2N–.10 143.75E–.09 35 4.1b 30 4-118
IDC III 12 20 13 53.9–.73 38.20N 143.97E 0 4.2,4.0 **¶16477164**
NEIC III 12 20 13 55.3–.47 38.17N 143.88E 10 4.7b,4.0
ISCJB III 12 20 13 56.8–.53 38.17N–.07 143.74E–.08 33 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 20 14 34.1–.44 38.88N–.06 144.80E–.06 19 4.5b 121 3-153
IDC III 12 20 14 31.4–.49 38.94N 144.71E 0 4.5,4.4 **¶16477167**
ISCJB III 12 20 14 32.4–.28 38.83N–.04 144.69E–.05 19 4.5b,4.4
NEIC III 12 20 14 32.1–2.6 38.89N 144.75E 4–16 5.0b,4.4
MOS III 12 20 14 34.8–1.5 39.07N 144.71E 32 5.0b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=15.5km s-min=11.6km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=149.9.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=137.0.
MOS Error ellipse: s-maj=10.8km s-min=7.6km az=85.0.
ISC III 12 20 19 43.1–.84 38.98N–.09 144.8E–.10 35 4.0b 29 3-82
IDC III 12 20 19 37.8–.92 38.95N 144.86E 0 4.0,3.9 **¶16477169**
ISCJB III 12 20 19 40.8–.66 38.94N–.07 144.7E–.10 33 3.9b,3.9
NEIC III 12 20 19 43.4–.60 39.02N 144.73E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=16.7km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=8.9km az=36.3.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.3km az=127.0.
ISC III 12 20 20 40.1–.90 36.0N–.20 143.0E–.10 10 3.7b 12 4-90
ISCJB III 12 20 20 38.2–.71 35.9N–.10 143.0E–.10 10 3.7b **¶17194583**
IDC III 12 20 20 38.5–.84 35.98N 143.09E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=16.2km az=5.4.
IDC Error ellipse: s-maj=25.2km s-min=22.3km az=98.0.
ISC III 12 20 21 36.5–.47 37.95N–.05 142.28E–.05 14 4.3b 83 1-146
ISCJB III 12 20 21 34.5–.35 37.87N–.04 142.47E–.04 14 4.2b,4.2s **¶16461491**
JMA III 12 20 21 38.9–.50 37.90N 142.13E 6 4.3,4.2s
NEIC III 12 20 21 39.4–.34 37.93N 142.35E 35 4.5b,4.2s
IDC III 12 20 21 40.4–2.0 37.95N 142.28E 42–18 4.2,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.8km az=148.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.8km az=135.0.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=108.0.
ISC III 12 20 24 13.7–.88 38.2N–.10 143.4E–.10 19 4.1b 18 4-76
IDC III 12 20 24 10.5–.76 38.16N 143.38E 0 4.1,3.9 **¶16477171**
ISCJB III 12 20 24 11.3–.62 38.09N–.09 143.4E–.10 19 4.0b,3.9
NEIC III 12 20 24 15.5–.57 38.09N 143.35E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=17.7km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=11.4km az=30.3.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=10.3km az=115.0.
ISC III 12 20 24 53.4–.91 36.6N–.10 142.4E–.10 15 4.1b 22 3-146
IDC III 12 20 24 50.7–.93 36.54N 142.49E 0 4.2,4.1b **¶16477174**
ISCJB III 12 20 24 51.3–.85 36.5N–.10 142.5E–.10 15 4.0b,4.1b
NEIC III 12 20 24 52.0–.58 36.47N 142.54E 10 4.2b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=22.2km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=13.8km az=153.2.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=11.0km az=156.0.
ISC III 12 20 28 17.8–.77 36.9N–.10 143.4E–.10 35 3.9b 20 11-153
IDC III 12 20 28 12.3–.75 36.83N 143.44E 0 4.1,3.9 **¶17194586**
ISCJB III 12 20 28 15.5–.66 36.9N–.10 143.4E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 20 30 42.2–.91 38.6N–.10 144.0E–.10 14 3.9b 17 5-144
IDC III 12 20 30 40.1–1.0 38.62N 144.03E 0 3.9,3.8 **¶17194587**
ISCJB III 12 20 30 40.4–.79 38.57N–.09 143.9E–.20 14 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 20 31 55.1–.97 37.9N–.20 144.2E–.10 35 3.6b 11 5-75
IDC III 12 20 31 49.7–.82 37.94N 144.29E 0 3.9,3.7 **¶17194588**
ISCJB III 12 20 31 52.9–.74 37.9N–.10 144.2E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 20 33 47.9–1.1 38.8N–.20 144.3E–.20 19 3.7b 7 5-73
IDC III 12 20 33 44.9–.96 38.90N 144.48E 0 3.7,3.7 **¶17194589**
ISCJB III 12 20 33 46.1–.99 38.8N–.10 144.3E–.20 19 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 20 34 52.8–1.0 38.6N–.10 144.3E–.10 29 3.9b 11 11-74
IDC III 12 20 34 48.4–.91 38.60N 144.29E 0 3.9,3.8 **¶16477182**
ISCJB III 12 20 34 50.6–.84 38.6N–.10 144.2E–.20 29 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 20 37 17.8–.71 39.0N–.10 144.7E–.10 19 4.1b 38 6-145
IDC III 12 20 37 14.9–.80 38.97N 144.65E 0 4.1,4.0 **¶16477184**
NEIC III 12 20 37 15.8–3.2 38.99N 144.63E 5–19 4.4b,4.0
ISCJB III 12 20 37 16.2–.58 39.01N–.08 144.55E–.09 19 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 20 39 12.5–1.3 38.5N–.20 144.1E–.20 14 3.9b 6 11-74
ISCJB III 12 20 39 10.6–1.1 38.5N–.20 144.0E–.20 14 3.8b **¶17194592**
IDC III 12 20 39 10.3–1.5 38.48N 144.12E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.7km s-min=22.1km az=141.7.
IDC Error ellipse: s-maj=43.0km s-min=33.0km az=76.0.
IDC III 12 20 39 23.0–3.4 37.72N 143.18E 0 3.9,3.6
¶17194595
IDC Error ellipse: s-maj=297.2km s-min=28.8km az=112.0.
ISC III 12 20 42 40.9–.48 35.85N–.06 142.74E–.09 35 4.5b 48 6-154
IDC III 12 20 42 35.9–.62 35.97N 142.76E 0 4.5,4.4 **¶17194596**
ISCJB III 12 20 42 38.8–.37 35.76N–.04 142.67E–.09 33 4.5b,4.4
NEIC III 12 20 42 41.2–.41 35.98N 142.78E 35 4.9b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=16.2km az=17.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.5km az=173.6.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=9.0km az=79.0.
ISC III 12 20 48 43.5–.48 39.83N–.06 143.32E–.08 6 4.7b 122 2-146
ISCJB III 12 20 48 41.9–.34 39.81N–.04 143.37E–.06 6 4.6b,4.0s **¶16310851**
IDC III 12 20 48 42.5–.56 39.84N 143.27E 0 4.5,4.4
NEIC III 12 20 48 47.3–1.6 39.84N 143.31E 32–11 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=33.1.
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=106.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.9km az=119.0.
ISC III 12 20 49 54.8–.89 39.8N–.10 143.4E–.10 6 4.4b 30 10-93
ISCJB III 12 20 49 52.9–.66 39.79N–.10 143.5E–.10 6 4.3b **¶16461494**
NEIC III 12 20 50 01.8–1.4 39.88N 143.35E 57–11 4.7b
IDC III 12 20 50 02.9–3.8 39.85N 143.35E 67–32 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=11.6km az=151.5.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.3km az=129.0.
IDC Error ellipse: s-maj=23.9km s-min=17.8km az=121.0.
ISC III 12 20 51 06.1–.97 37.3N–.20 144.6E–.10 35 4.0b 10 5-76
IDC III 12 20 51 00.8–.89 37.33N 144.64E 0 4.3,4.0 **¶17194599**
ISCJB III 12 20 51 04.0–.75 37.2N–.10 144.6E–.10 33 4.0b,4.0
ISC Event type ke.

ISCJB Event type ke.
ISC III 12 20 59 04.7–1.1 38.7N–.10 143.4E–.10 16 3.4b 12 2-63
ISCJB III 12 20 59 02.7–.85 38.72N–.09 143.3E–.10 16 3.5b ¶16477196
IDC III 12 20 59 02.2–.95 38.72N 143.42E 0 3.7,3.5
JMA III 12 20 59 07.3–.20 39.11N 142.67E 9–2 4.2,3.5
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.1km s-min=11.8km az=32.9.
IDC Error ellipse: s-maj=24.3km s-min=19.4km az=96.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 12 20 59 12.7–.70 38.28N–.08 143.7E–.10 15 4.2b 38 4-81
IDC III 12 20 59 10.8–.71 38.38N 143.67E 0 4.0,3.9 ¶17194600
ISCJB III 12 20 59 11.0–.50 38.35N–.06 143.61E–.09 15 4.1b,3.9
NEIC III 12 20 59 15.7–.68 38.36N 143.59E 35 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.2km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=7.4km az=30.8.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=10.5km az=117.0.
ISC III 12 21 01 57.4–.81 37.1N–.10 144.2E–.10 35 4.1b 34 5-88
IDC III 12 21 01 52.3–.82 37.25N 144.14E 0 4.3,4.2 ¶16445746
ISCJB III 12 21 01 55.7–.59 37.15N–.09 144.08E–.09 33 4.2b,4.2
NEIC III 12 21 01 57.4–.58 37.14N 144.15E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=18.5km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=9.9km az=151.7.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.0km az=144.0.
ISC III 12 21 07 53.9–.99 37.82N–.07 142.56E–.08 14 3.8b 17 1-74
ISCJB III 12 21 07 51.9–.77 37.81N–.06 142.75E–.06 14 3.7b ¶17194603
IDC III 12 21 07 51.3–.99 37.81N 142.98E 0 3.9,3.8
JMA III 12 21 07 52.5–.80 37.88N 142.55E 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=154.4.
IDC Error ellipse: s-maj=31.1km s-min=18.9km az=96.0.
JMA Error ellipse: s-maj=3.3km s-min=6.1km az=-1.0.
IDC III 12 21 09 13.7–.98 37.17N 142.86E 0 3.9,3.6
¶17194604
IDC Error ellipse: s-maj=40.1km s-min=23.4km az=104.0.
ISC III 12 21 09 33.4–1.1 37.7N–.10 142.8E–.10 18 3.8b 10 4-63
ISCJB III 12 21 09 31.0–.90 37.8N–.10 142.8E–.10 18 3.8b ¶17194607
IDC III 12 21 09 30.7–.95 37.79N 142.89E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=15.1km az=43.4.
IDC Error ellipse: s-maj=25.6km s-min=21.0km az=105.0.
ISC III 12 21 13 00.1–.73 36.97N–.09 144.42E–.09 26 3.9b 30 5-84
IDC III 12 21 12 56.4–.74 37.04N 144.48E 0 4.1,3.9 ¶16445751
ISCJB III 12 21 12 58.3–.56 36.95N–.07 144.39E–.07 26 3.8b,3.6s
NEIC III 12 21 13 01.6–1.1 37.01N 144.44E 35–9 4.2b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=15.9km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.5km az=144.9.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=6.7km az=125.0.
ISC III 12 21 15 49.7–.60 37.19N–.10 144.00E–.08 35 4.3b 77 5-145
IDC III 12 21 15 44.3–.54 37.12N 144.09E 0 4.4,4.3 ¶16445752
ISCJB III 12 21 15 48.2–.45 37.12N–.08 143.93E–.06 33 4.3b,3.6s
NEIC III 12 21 15 49.6–.37 37.18N 144.01E 35 4.3b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=12.9km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=6.2km az=159.8.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=150.0.
ISC III 12 21 18 33.2–.81 38.99N–.09 144.6E–.10 19 4.1b 28 3-81
IDC III 12 21 18 30.7–.86 38.98N 144.46E 0 4.1,3.9 ¶16445753
ISCJB III 12 21 18 31.4–.62 38.95N–.07 144.47E–.09 19 3.9b,3.9
NEIC III 12 21 18 35.7–.69 39.04N 144.48E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=15.4km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=7.6km az=41.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.8km az=136.0.
ISC III 12 21 20 07.8–1.2 36.9N–.20 143.4E–.20 35 4.0b 9 4-70
IDC III 12 21 20 02.6–1.1 36.93N 143.48E 0 4.0,3.9b ¶17194610
ISCJB III 12 21 20 05.2–.00 36.9N–.10 143.4E–.10 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 21 21 10.1–.69 37.74N–.10 143.55E–.09 35 4.1b 48 4-88
IDC III 12 21 21 04.9–.62 37.75N 143.58E 0 4.3,4.1 ¶602654688
ISCJB III 12 21 21 08.1–.48 37.75N–.07 143.52E–.07 33 4.1b,4.1
NEIC III 12 21 21 09.1–2.4 37.77N 143.57E 26–16 4.2b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=16.5km s-min=12.9km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.5km az=144.6.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.6km az=133.0.
ISC III 12 21 21 50.0–.55 36.24N–.07 142.36E–.09 15 4.2b 36 3-146
IDC III 12 21 21 48.0–.57 36.30N 142.34E 0 4.4,4.2L ¶16445757
ISCJB III 12 21 21 48.5–.42 36.24N–.06 142.36E–.08 15 4.2b,4.2L
NEIC III 12 21 21 50.1–3.7 36.29N 142.34E 14–23 4.4b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=12.7km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=6.7km az=41.1.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.6km az=122.0.
IDC III 12 21 27 05.8–1.5 37.20N 144.26E 0 4.0,3.8b
¶17194611
IDC Error ellipse: s-maj=50.2km s-min=29.9km az=121.0.
ISC III 12 21 32 00.2–1.0 37.0N–.10 142.9E–.20 25 3.5b 8 4-61
IDC III 12 21 31 56.6–1.0 36.97N 142.98E 0 3.7,3.6 ¶17194612
ISCJB III 12 21 31 58.1–.91 36.9N–.10 143.0E–.20 25 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 21 34 13.5–.70 39.77N–.10 143.6E–.10 6 4.0b 31 5-76
ISCJB III 12 21 34 11.7–.53 39.81N–.07 143.57E–.09 6 3.9b ¶16449497
IDC III 12 21 34 12.9–.90 39.86N 143.37E 0 4.0,3.9
NEIC III 12 21 34 20.0–1.4 39.74N 143.44E 56–12 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=8.5km az=44.0.
IDC Error ellipse: s-maj=25.1km s-min=17.8km az=104.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.4km az=106.0.
ISC III 12 21 36 25.5–1.0 38.4N–.20 144.4E–.10 29 3.6b 7 5-75
IDC III 12 21 36 20.9–1.1 38.29N 144.55E 0 3.9,3.6 ¶17194613
ISCJB III 12 21 36 23.4–1.0 38.4N–.10 144.4E–.20 29 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 21 38 34.1–.58 37.87N–.04 144.27E–.04 26–3 5.0b,4.7s 462 3-153
IDC III 12 21 38 29.7–.42 37.77N 144.35E 0 4.7,4.6 ¶16310852
JMA III 12 21 38 30.8–.30 37.80N 144.34E 44 4.8,4.6
ISCJB III 12 21 38 33.6–.13 37.97N–.02 144.15E–.02 29 4.8b,4.7s
MOS III 12 21 38 34.9–.91 38.11N 144.28E 33 5.1b,4.7s
GCMT III 12 21 38 35.7–.50 37.74N 144.21E 12 5.0W,4.7s
NEIC III 12 21 38 35.7–.15 37.86N 144.23E 35 5.0b,4.7s
BJI III 12 21 38 36.3 38.00N 143.77E 26 5.1b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=10.2km az=141.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.0km az=152.8.
MOS Error ellipse: s-maj=7.5km s-min=5.3km az=106.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c17; s60,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.45±.14 $M_{\theta\theta}$0.00±.15; $M_{\phi\phi}$2.45±.12; $M_{r\theta}$-1.49±.46; $M_{\theta\phi}$0.51±.11; $M_{\theta r}$3.64±.45; Best double couple: NP1:ϕ_s165.00000°,δ75.00000° ,λ-104.00000°. NP2:ϕ_s29.00000°,δ21.00000°,λ-47.00000°. Principal axes: T 4.4030,Plg29.0000°,Azm266.0000°; N 0.4820,Plg14.0000°,Azm168.0000° ; P -4.8840,Plg58.0000°,Azm55.0000° M_θ4.64300×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.0km az=153.0.
ISC III 12 21 40 57.4–.34 37.19N–.04 143.34E–.04 27–2 5.0b,4.7s 571 2-150
IDC III 12 21 40 52.9–.41 37.06N 143.39E 0 4.9,4.8 ¶16310853
JMA III 12 21 40 55.6–.50 37.06N 143.33E 46 5.0,4.8
BJI III 12 21 40 57.2 37.24N 142.96E 25 5.2b,5.0s
ISCJB III 12 21 40 57.7–.13 37.14N–.03 143.24E–.02 38 5.0b,4.7s
GCMT III 12 21 40 58.9–.60 37.24N 143.36E 12 4.9W,4.7s
NEIC III 12 21 40 58.9–.51 37.10N 143.33E 36–4 5.0b,4.7s
MOS III 12 21 40 58.0–.95 37.37N 143.25E 35 5.2b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=132.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.3km az=157.8.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s14,c17; s65,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.85±.14 $M_{\theta\theta}$0.64±.14; $M_{\phi\phi}$2.22±.12; $M_{r\theta}$0.54±.63; $M_{\theta\phi}$0.82±.12; $M_{\theta r}$0.05±.54; Best double couple: NP1:ϕ_s211.00000°,δ48.00000° ,λ-79.00000°. NP2:ϕ_s15.00000°,δ43.00000°,λ-102.00000°. Principal axes: T 2.5780,Plg3.0000°,Azm294.0000°; N 0.3610,Plg8.0000°,Azm24.0000° ; P -2.9330,Plg81.0000°,Azm185.0000° M_θ2.75600×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.7km az=136.0.
MOS Error ellipse: s-maj=6.8km s-min=5.1km az=96.7.
ISC III 12 21 53 48.6–1.1 38.26N–.07 144.48E–.08 29 4.0b 32 3-75
IDC III 12 21 53 43.1–1.8 38.06N 144.73E 0 4.0,4.0 ¶17194614
JMA III 12 21 53 46.1–.60 38.13N 144.58E 52 4.7,4.0
ISCJB III 12 21 53 47.9–.72 38.35N–.04 144.42E–.06 29 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 21 54 54.6–.80 37.72N–.10 143.7E–.10 19 4.2b 17 5-62
IDC III 12 21 54 51.9–1.1 37.75N 143.76E 0 4.0,3.9 ¶16449498
ISCJB III 12 21 54 52.8–.65 37.73N–.08 143.7E–.10 19 4.0b,3.9
NEIC III 12 21 54 57.2–.52 37.78N 143.63E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.3km s-min=20.0km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=9.5km az=38.9.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=7.8km az=136.0.
ISC III 12 21 56 37.7–.60 37.28N–.10 144.07E–.08 35 4.2b 67 5-145
IDC III 12 21 56 32.5–.55 37.28N 144.03E 0 4.4,4.3 ¶16449499
NEIC III 12 21 56 35.3–3.2 37.28N 144.09E 18–19 4.3b,4.3
ISCJB III 12 21 56 35.9–.42 37.26N–.07 144.00E–.06 33 4.2b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 22 01 10.3–.63 37.0N–.10 143.45E–.09 35 4.4b 44 4-145
ISCJB III 12 22 01 08.3–.50 37.03N–.08 143.39E–.08 33 4.3b ¶16449500
NEIC III 12 22 01 10.3–.40 37.10N 143.41E 35 4.5b
IDC III 12 22 01 10.0–5.3 37.02N 143.42E 33–39 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=9.1km az=168.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.7km az=172.0.
IDC Error ellipse: s-maj=16.2km s-min=14.1km az=98.0.
ISC III 12 22 05 16.5–.61 37.66N–.06 143.84E–.06 29–3 4.6b 142 4-145
ISCJB III 12 22 05 14.2–1.7 37.66N–.05 143.85E–.05 23–12 4.6b ¶16310857
NEIC III 12 22 05 15.8–.60 37.65N 143.88E 24–4 4.8b
IDC III 12 22 05 16.0–3.8 37.55N 144.01E 33–29 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=149.9.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.1km az=149.0.
IDC Error ellipse: s-maj=14.2km s-min=11.9km az=120.0.
ISC III 12 22 08 57.6–1.2 38.2N–.20 143.5E–.20 19 4.0b 12 11-74
IDC III 12 22 08 54.6–1.2 38.19N 143.46E 0 4.0,3.9 ¶16449501
ISCJB III 12 22 08 55.6–1.1 38.2N–.10 143.4E–.20 19 3.9b,3.9
NEIC III 12 22 08 59.7–.92 38.21N 143.51E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=25.4km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=22.5km s-min=18.3km az=28.6.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=17.8km az=208.0.
ISC III 12 22 11 17.7–.75 39.1N–.10 144.57E–.09 19 4.4b 58 3-145
IDC III 12 22 11 15.7–.92 39.32N 144.48E 0 5.8,5.8s ¶16449503
ISCJB III 12 22 11 16.6–.55 39.16N–.08 144.48E–.08 19 4.4b,5.8s
NEIC III 12 22 11 19.9–2.0 39.17N 144.48E 31–13 4.4b,5.8s
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=14.5km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=6.8km az=148.6.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=5.6km az=139.0.
ISC III 12 22 11 53.1–.92 34.0N–.10 142.4E–.20 25 4.4b 17 12-77
IDC III 12 22 11 49.3–1.1 34.05N 142.28E 0 5.2s,5.2 ¶16449504
ISCJB III 12 22 11 51.0–.74 34.0N–.10 142.4E–.20 25 5.3s,4.4b
NEIC III 12 22 11 50.8–.70 34.00N 142.39E 10 4.2b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=36.6km s-min=21.0km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=11.0km az=144.8.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=10.8km az=59.0.
ISC III 12 22 20 38.1–.99 37.1N–.20 143.4E–.10 35 4.2b 10 12-64
IDC III 12 22 20 33.1–1.6 37.09N 143.34E 0 4.1,4.0 ¶16449506
ISCJB III 12 22 20 35.6–.85 37.0N–.10 143.3E–.10 33 4.0b,4.0
NEIC III 12 22 20 38.1–.66 37.04N 143.36E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=38.9km s-min=35.0km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=20.6km s-min=14.0km az=179.8.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=12.8km az=184.0.
IDC III 12 22 23 12.5–8.5 36.36N 143.19E 0 4.0,3.8
¶16477212
IDC Error ellipse: s-maj=185.1km s-min=37.8km az=36.0.
ISC III 12 22 23 26.6–.58 37.83N–.08 143.95E–.09 35 4.4b 79 4-85
IDC III 12 22 23 20.9–.59 37.74N 143.98E 0 4.5,4.4 ¶602654620
ISCJB III 12 22 23 25.1–.45 37.87N–.07 143.88E–.07 33 4.5b,4.4
NEIC III 12 22 23 26.6–.30 37.84N 143.93E 35 4.6b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=15.2km s-min=13.2km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.3km az=155.8.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=143.0.
ISC III 12 22 25 41.7–.72 36.5N–.10 142.72E–.10 15 4.4b 63 4-146
ISCJB III 12 22 25 39.8–.53 36.41N–.08 142.69E–.07 15 4.3b,3.1s ¶16449508
NEIC III 12 22 25 43.4–2.3 36.46N 142.68E 26–15 4.4b,3.1s
IDC III 12 22 25 45.5–2.8 36.45N 142.62E 42–23 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.8km az=154.9.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.4km az=129.0.
IDC Error ellipse: s-maj=18.3km s-min=15.1km az=106.0.
ISC III 12 22 30 00.5–.83 37.5N–.10 143.8E–.10 35 4.0b 19 4-78
IDC III 12 22 29 55.2–.96 37.52N 143.90E 0 4.1,4.0b ¶16449510
ISCJB III 12 22 29 58.2–.61 37.50N–.09 143.74E–.08 33 4.0b,4.0b
NEIC III 12 22 30 00.5–.51 37.50N 143.79E 35 4.0b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=22.2km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=8.9km az=159.5.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.7km az=155.0.
ISC III 12 22 37 54.6–1.0 36.6N–.10 143.1E–.10 29 4.3b 16 4-75
IDC III 12 22 37 49.8–5.2 36.54N 143.00E 0 4.4,4.4 ¶16449514
ISCJB III 12 22 37 52.6–.88 36.6N–.10 143.1E–.10 29 4.2b,4.4
NEIC III 12 22 37 56.3–1.5 36.60N 143.03E 43–12 4.3b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=127.1km s-min=34.3km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=14.2km az=140.0.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=11.7km az=134.0.
ISC III 12 22 42 38.0–.34 36.32N–.05 142.18E–.06 19 4.8b 206 3-151
IDC III 12 22 42 34.5–.42 36.30N 142.22E 0 4.6,4.5 ¶17194619
NEIC III 12 22 42 36.8–1.7 36.34N 142.14E 10–10 4.8b,4.5
ISCJB III 12 22 42 36.7–.18 36.35N–.03 142.08E–.03 19 4.7b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 12 22 43 45.3–3.5 36.29N 142.72E 0 4.6s,4.6

¶16449515

IDC Error ellipse: s-maj=170.8km s-min=35.7km az=74.0.
ISC III 12 22 53 31.2–.60 39.44N–.05 143.79E–.05 20–2 4.6b 149 2-146
JMA III 12 22 53 27.5–.40 39.46N 143.81E 14 4.8 **¶602654593**
IDC III 12 22 53 31.9–5.7 39.37N 143.70E 28–39 4.3,4.3
ISCJB III 12 22 53 31.1–.24 39.51N–.03 143.63E–.03 26 4.5b,4.3
NEIC III 12 22 53 32.5–2.2 39.60N 143.68E 20–15 4.7b,4.3
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=12.2km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=158.4.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.1km az=150.0.
ISC III 12 22 58 46.4–.97 37.2N–.10 142.4E–.10 9 3.9b 18 3-75
ISCJB III 12 22 58 44.3–.75 37.14N–.09 142.4E–.10 9 3.9b **¶16477218**
IDC III 12 22 58 44.9–1.1 37.22N 142.39E 0 3.9,3.9b
NEIC III 12 22 58 50.3–.71 37.24N 142.26E 35 4.1b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=10.8km az=43.1.
IDC Error ellipse: s-maj=34.1km s-min=19.3km az=89.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=10.1km az=131.0.
ISC III 12 23 03 13.7–.57 38.75N–.08 144.71E–.09 35 4.0b 31 7-118
IDC III 12 23 03 08.5–.92 38.79N 144.79E 0 4.0,3.9 **¶16449527**
ISCJB III 12 23 03 11.8–.49 38.80N–.07 144.70E–.09 33 4.0b,3.9
NEIC III 12 23 03 13.7–3.0 38.82N 144.75E 33–21 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=20.3km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=9.7km az=32.9.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.9km az=149.0.
ISC III 12 23 05 00.4–1.1 37.6N–.10 144.1E–.10 35 3.8b 12 4-62
IDC III 12 23 04 55.2–.96 37.60N 144.14E 0 3.9,3.8 **¶16476699**
ISCJB III 12 23 04 57.9–.86 37.57N–.10 144.1E–.10 33 3.8b,3.8
NEIC III 12 23 05 00.7–1.5 37.60N 144.09E 39–13 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=35.7km s-min=20.0km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=17.2km s-min=13.7km az=19.9.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=9.1km az=119.0.
IDC III 12 23 07 24.6–3.0 36.96N 142.61E 0 3.7,3.5

¶17194625

IDC Error ellipse: s-maj=76.5km s-min=28.9km az=54.0.
ISC III 12 23 09 00.3–.90 37.8N–.10 144.3E–.10 35 3.8b 20 4-75
IDC III 12 23 08 55.2–.84 37.85N 144.33E 0 4.0,3.8 **¶16476700**
ISCJB III 12 23 08 58.1–.66 37.80N–.09 144.22E–.09 33 3.8b,3.8
NEIC III 12 23 09 00.5–1.3 37.82N 144.25E 37–11 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=18.6km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.2km az=152.4.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=8.0km az=125.0.
IDC III 12 23 12 51.7–1.4 37.84N 143.60E 0 4.3,4.1

¶17194628

IDC Error ellipse: s-maj=38.0km s-min=30.0km az=87.0.
ISC III 12 23 14 59.3–.54 36.86N–.07 143.76E–.07 35 4.1b 45 4-145
IDC III 12 23 14 54.3–.55 36.96N 143.83E 0 4.2,4.1 **¶16449531**
ISCJB III 12 23 14 57.0–.41 36.76N–.05 143.73E–.06 33 4.0b,4.1
NEIC III 12 23 14 59.4–.35 36.88N 143.77E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=13.2km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.7km az=148.6.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.7km az=151.0.
ISC III 12 23 17 12.7–.52 38.50N–.07 144.21E–.07 14 4.5b 80 5-145
IDC III 12 23 17 11.0–.58 38.59N 144.18E 0 4.4,4.3 **¶16449532**
ISCJB III 12 23 17 11.2–.39 38.49N–.05 144.19E–.07 14 4.3b,4.3
NEIC III 12 23 17 13.0–2.8 38.54N 144.23E 14–17 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.9km az=43.5.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.2km az=109.0.
ISC III 12 23 29 24.7–.94 38.8N–.10 144.7E–.10 19 4.3b 23 3-83
IDC III 12 23 29 21.7–.96 38.80N 144.64E 0 4.5,4.4 **¶16449533**
ISCJB III 12 23 29 22.8–.76 38.8N–.10 144.6E–.10 19 4.3b,4.4
NEIC III 12 23 29 25.1–2.7 38.80N 144.63E 22–19 4.1b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=18.8km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=9.6km az=150.5.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.3km az=133.0.
ISC III 12 23 31 37.9–.81 36.9N–.10 142.6E–.10 9 4.1b 18 1-146
JMA III 12 23 31 31.4–.20 37.92N 141.97E 29 4.2 **¶17194631**
IDC III 12 23 31 36.5–.75 37.06N 142.44E 0 4.5,4.1
NEIC III 12 23 31 44.4–1.4 37.04N 142.40E 58–12 4.1b,4.1
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=21.9km az=99.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=9.8km az=131.0.
ISC III 12 23 37 22.3–.57 36.72N–.04 142.36E–.04 20–2 5.4s,5.0b 412 1-157
NIED III 12 23 37 00 36.70N 142.30E 26 4.8W,5.0b **¶16310865**
IDC III 12 23 37 18.6–.44 36.68N 142.35E 0 4.7,4.6
ISCJB III 12 23 37 19.1–1.1 36.76N–.03 142.33E–.02 6–6 5.4s,5.0b
JMA III 12 23 37 20.0–.40 36.69N 142.25E 4–4 5.1,5.0b
BJI III 12 23 37 20.6 36.46N 142.31E 25 5.6b,5.6s
NEIC III 12 23 37 22.9–1.2 36.73N 142.30E 22–8 5.1b,5.6s
MOS III 12 23 37 23.7–.78 36.98N 142.26E 32 5.1b,5.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ39.00000°,λ79.00000°. NP2:ϕ_s14.00000°,δ52.00000°,λ99.00000°. $M_0$1.72000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=10.4km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.7km az=165.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=135.0.
MOS Error ellipse: s-maj=6.9km s-min=5.1km az=87.8.
ISC III 12 23 40 28.9–1.6 37.6N–.20 143.2E–.20 24 3.8b 7 5-69
IDC III 12 23 40 25.4–1.8 37.54N 143.18E 0 4.0,4.0 **¶16477228**
ISCJB III 12 23 40 26.9–1.4 37.5N–.20 143.1E–.30 24 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 23 44 40.5–.60 36.49N–.06 142.45E–.07 15 4.0b 27 3-146
IDC III 12 23 44 38.8–.73 36.62N 142.44E 0 4.4L,4.3 **¶17194637**
ISCJB III 12 23 44 39.1–.47 36.52N–.05 142.44E–.06 15 4.0b,4.3
NEIC III 12 23 44 41.4–4.3 36.60N 142.47E 18–27 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=16.0km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.5km az=140.2.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.5km az=85.0.
ISC III 12 23 46 56.0–.53 36.39N–.06 142.26E–.07 15 4.4b 69 1-146
IDC III 12 23 46 53.6–.62 36.41N 142.23E 0 4.4,4.3 **¶602654539**
ISCJB III 12 23 46 54.2–.38 36.35N–.05 142.25E–.05 15 4.3b,4.3
JMA III 12 23 46 56.0–.50 36.62N 142.13E 0 4.9,4.3
NEIC III 12 23 46 57.8–2.5 36.45N 142.23E 26–17 4.4b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.1km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.7km az=154.7.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.8km az=137.0.
ISC III 12 23 48 18.3–.71 37.00N–.08 144.06E–.10 35 4.0b 36 5-88
IDC III 12 23 48 13.5–.82 37.11N 144.10E 0 5.4,5.4s **¶16449538**
ISCJB III 12 23 48 16.1–.50 36.88N–.05 144.07E–.08 33 5.4s,4.0b
NEIC III 12 23 48 17.3–2.9 37.00N 144.16E 27–21 4.0b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.5km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.6km az=26.9.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.3km az=90.0.
ISC III 12 23 51 24.7–.34 37.12N–.05 143.47E–.05 35 4.9b 757 2-159
IDC III 12 23 51 19.1–.40 37.02N 143.48E 0 4.8,4.8 **¶16449547**
JMA III 12 23 51 19.5–.90 37.03N 143.50E 69 4.8,4.8
BJI III 12 23 51 21.2 37.22N 143.29E 15 5.4b,5.2s
NEIC III 12 23 51 23.2–1.2 37.08N 143.39E 21–8 5.0b,5.2s
ISCJB III 12 23 51 23.5–.14 37.17N–.03 143.36E–.02 33 5.1s,4.9b
MOS III 12 23 51 23.5–1.4 37.29N 143.44E 34 5.0b,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=11.9km s-min=10.2km az=137.0.
JMA Error ellipse: s-maj=6.7km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.4km az=170.3.
MOS Error ellipse: s-maj=8.4km s-min=5.6km az=91.6.
ISC III 12 23 53 45.4–.35 37.68N–.05 143.41E–.05 35 4.9b 623 4-154
IDC III 12 23 53 40.4–.41 37.74N 143.41E 0 5.0s,5.0 **¶602654522**
NEIC III 12 23 53 42.2–2.1 37.68N 143.38E 9–13 5.0b,5.0
ISCJB III 12 23 53 44.3–.16 37.72N–.04 143.38E–.03 33 5.0s,4.8b
MOS III 12 23 53 45.3–1.1 37.80N 143.35E 39 5.1b,4.8b
ISC Event type ke.
IDC Error ellipse: s-maj=12.1km s-min=10.3km az=115.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.7km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=2.8km az=167.9.
MOS Error ellipse: s-maj=6.9km s-min=4.8km az=103.6.
ISC III 12 23 57 34.6–.35 38.07N–.05 144.14E–.06 35 4.8b 181 4-144
IDC III 12 23 57 28.7–.50 37.97N 144.24E 0 4.5,4.4 **¶16449548**
NEIC III 12 23 57 33.1–.50 38.09N 144.12E 20–3 4.9b,4.4
ISCJB III 12 23 57 33.2–.19 38.09N–.04 144.09E–.04 33 4.7b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 12 23 58 46.1–.53 37.66N–.07 142.81E–.06 24 4.5b 60 2-145
IDC III 12 23 58 43.2–.63 37.78N 142.75E 0 4.5,4.4 **¶16449540**
ISCJB III 12 23 58 44.1–.35 37.60N–.04 142.88E–.05 24 4.4b,4.4
JMA III 12 23 58 46.9–.40 37.88N 142.47E 4 4.5,4.4
NEIC III 12 23 58 47.8–.44 37.68N 142.77E 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=13.3km az=137.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.8km az=140.1.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.4km az=133.0.
IDC III 13 00 02 52.7–2.0 36.40N 142.64E 0 3.8,3.7

¶16449549

IDC Error ellipse: s-maj=63.1km s-min=25.8km az=64.0.
ISC III 13 00 03 18.5–.72 37.7N–.10 143.89E–.09 35 4.1b 30 4-81
IDC III 13 00 03 12.8–.70 37.66N 143.97E 0 4.3,4.1 **¶16477266**
ISCJB III 13 00 03 16.2–.55 37.71N–.08 143.86E–.08 33 4.2b,4.1
NEIC III 13 00 03 17.1–2.7 37.72N 143.91E 26–19 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=15.7km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=8.1km az=158.5.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.2km az=131.0.
ISC III 13 00 03 28.8–.49 37.46N–.06 143.73E–.07 35 4.3b 60 5-88
NEIC III 13 00 03 24.9–3.2 37.57N 143.72E 5–20 4.3b **¶17194639**
IDC III 13 00 03 24.0–.57 37.59N 143.74E 0 4.5,4.4
ISCJB III 13 00 03 26.9–.37 37.48N–.05 143.65E–.06 33 4.3b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 00 04 40.7–.89 38.1N–.10 143.7E–.10 19 4.1b 15 5-144
IDC III 13 00 04 37.9–.88 38.12N 143.75E 0 4.2,4.0 **¶16477234**
ISCJB III 13 00 04 38.9–.73 38.0N–.10 143.6E–.10 19 4.0b,4.0
NEIC III 13 00 04 43.1–.58 38.08N 143.60E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=21.1km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=13.5km az=150.1.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=11.3km az=147.0.
ISC III 13 00 10 47.2–.76 39.6N–.10 144.43E–.10 23 4.0b 29 6-87
IDC III 13 00 10 43.7–.63 39.59N 144.56E 0 4.1s,4.1 **¶16449553**
ISCJB III 13 00 10 45.7–.51 39.65N–.08 144.43E–.08 23 4.0b,4.1
NEIC III 13 00 10 49.1–.45 39.64N 144.46E 35 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=14.1km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=6.8km az=147.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.0km az=145.0.
ISC III 13 00 11 57.9–.88 37.9N–.10 143.7E–.10 19 4.2b 22 4-76
IDC III 13 00 11 54.8–.77 37.91N 143.66E 0 4.2,4.1b **¶16449554**
ISCJB III 13 00 11 55.7–.62 37.90N–.08 143.64E–.08 19 4.0b,4.1b
NEIC III 13 00 12 00.8–1.1 37.95N 143.56E 43–10 4.1b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=16.7km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=8.4km az=153.9.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=7.0km az=124.0.
ISC III 13 00 12 59.6–.54 36.90N–.06 142.32E–.06 9 4.3b 45 1-146
ISCJB III 13 00 12 58.0–.39 36.88N–.05 142.41E–.04 9 4.2b **¶602658491**
IDC III 13 00 12 58.1–.56 36.92N 142.26E 0 4.4,4.3b
JMA III 13 00 13 00.9–.40 36.93N 142.30E 23 4.5,4.3b
NEIC III 13 00 13 05.2–1.2 36.91N 142.21E 52–10 4.0b,4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=163.3.
IDC Error ellipse: s-maj=16.6km s-min=13.7km az=126.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.4km az=138.0.
ISC III 13 00 15 06.8–.81 37.2N–.10 143.6E–.10 35 4.1b 29 4-89
IDC III 13 00 15 01.6–.76 37.21N 143.70E 0 4.2,4.1b **¶16477268**
ISCJB III 13 00 15 04.8–.59 37.23N–.07 143.57E–.08 33 4.1b,4.1s
NEIC III 13 00 15 07.1–.58 37.29N 143.57E 35 4.2b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=16.5km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=8.2km az=144.2.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.1km az=150.0.
ISC III 13 00 21 27.5–.57 37.56N–.07 143.79E–.06 35 4.1b 52 2-88
IDC III 13 00 21 22.5–.61 37.64N 144.05E 0 4.3,4.1 **¶16449567**
NEIC III 13 00 21 24.2–3.6 37.58N 144.02E 12–22 4.2b,4.1
JMA III 13 00 21 25.8–.70 37.68N 143.71E 36 4.6,4.1
ISCJB III 13 00 21 26.1–.47 37.67N–.06 143.75E–.05 33 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 00 31 40.7–.71 37.2N–.10 143.04E–.10 25 4.0b 26 3-89
IDC III 13 00 31 36.8–.64 37.15N 143.12E 0 4.1,3.9 **¶16449571**
ISCJB III 13 00 31 38.6–.54 37.16N–.08 142.99E–.08 25 3.9b,3.9
NEIC III 13 00 31 41.7–.56 37.10N 142.99E 35 4.3b,3.9
JMA III 13 00 31 56.1–.10 38.29N 141.85E 22–4 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.8km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=9.0km az=178.6.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=11.4km az=123.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 00 35 53.6–.81 36.7N–.10 144.36E–.09 35 3.8b 25 5-88
IDC III 13 00 35 48.1–.71 36.68N 144.47E 0 4.1,3.9 **¶16449572**
ISCJB III 13 00 35 51.4–.61 36.6N–.10 144.30E–.07 33 3.9b,3.9
NEIC III 13 00 35 53.5–.52 36.66N 144.40E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.2km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=7.8km az=168.7.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=8.5km az=163.0.
JMA III 13 00 37 06.8–.40 37.13N 142.18E 10 4.2

¶602658861

JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 13 00 42 27.1–.62 37.55N–.10 143.99E–.09 35 4.3b 43 5-88
IDC III 13 00 42 22.0–.60 37.57N 144.04E 0 4.5,4.3 **¶16310873**
NEIC III 13 00 42 24.6–3.9 37.53N 144.04E 17–23 4.4b,4.3
ISCJB III 13 00 42 25.1–.43 37.54N–.07 143.93E–.07 33 4.3b,4.3

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 00 47 03.4–.40 39.11N–.04 143.42E–.03 20–1 5.2s,5.1b 883 2-162
NIED III 13 00 47 00 39.20N 143.50E 14 4.8W,5.1b **¶602658852**
IDC III 13 00 47 00.0–.39 39.07N 143.37E 0 4.9,4.8
ISCJB III 13 00 47 00.5–.86 39.12N–.02 143.32E–.02 9–5 5.1s,5.0b
BJI III 13 00 47 01.7 39.17N 143.27E 22 5.3b,5.0b
JMA III 13 00 47 02.2–.50 39.15N 143.54E 39 4.9,5.0b
MOS III 13 00 47 04.2–.89 39.16N 143.26E 34 5.2b,4.6s
NEIC III 13 00 47 06.0–.43 39.08N 143.23E 37–4 5.2s,5.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ37.00000°,λ-94.00000°. NP2:ϕ_s299.00000°,δ53.00000°,λ-87.00000°. $M_0$1.72000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=9.8km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=157.4.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.7.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.5km az=138.0.
ISC III 13 00 54 11.5–1.2 36.3N–.20 142.6E–.20 15 3.7b 9 4-70
ISCJB III 13 00 54 09.5–.98 36.3N–.10 142.4E–.20 15 3.7b **¶17194646**
IDC III 13 00 54 09.2–1.1 36.32N 142.49E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=15.8km az=135.5.
IDC Error ellipse: s-maj=28.4km s-min=21.0km az=67.0.
ISC III 13 00 55 10.1–.62 37.50N–.06 142.84E–.07 24 4.2b 60 2-145
IDC III 13 00 55 06.3–.60 37.52N 142.88E 0 4.4,4.2 **¶16449575**
ISCJB III 13 00 55 08.4–.41 37.48N–.04 142.86E–.05 24 4.2b,4.2
JMA III 13 00 55 09.1–.30 37.56N 142.56E 0 4.6,4.2
NEIC III 13 00 55 11.7–.80 37.53N 142.86E 36–6 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.6km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.6km az=135.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.3km az=126.0.
ISC III 13 00 57 58.8–.75 39.0N–.10 144.65E–.09 19 4.2b 45 6-87
IDC III 13 00 57 55.9–.79 39.06N 144.67E 0 4.4,4.2 **¶16449576**
ISCJB III 13 00 57 57.1–.55 39.04N–.09 144.58E–.08 19 4.1b,4.0s
NEIC III 13 00 58 00.9–.42 39.05N 144.61E 35 4.4b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=13.7km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=5.7km az=149.7.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=5.1km az=149.0.
ISC III 13 01 02 04.4–.68 37.3N–.10 143.99E–.08 35 4.2b 44 5-143
IDC III 13 01 01 59.1–.64 37.33N 144.08E 0 4.2,4.1 **¶17194647**
NEIC III 13 01 02 01.3–3.6 37.34N 144.04E 14–21 4.4b,4.1
ISCJB III 13 01 02 02.2–.46 37.31N–.07 143.95E–.06 33 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 01 04 11.0–.71 36.8N–.10 142.06E–.07 19 3.8b 21 1-146
ISCJB III 13 01 04 08.3–.67 36.62N–.10 142.26E–.08 19 3.8b **¶602658817**
JMA III 13 01 04 10.1–.40 36.73N 142.20E 28 4.1
IDC III 13 01 04 13.0–.78 36.71N 142.12E 38–7 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=8.9km az=11.4.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=21.5km s-min=15.8km az=108.0.
IDC III 13 01 05 44.8–1.4 38.66N 144.48E 0 3.8,3.6
¶17194650
IDC Error ellipse: s-maj=35.1km s-min=28.3km az=72.0.
ISC III 13 01 06 27.6–1.2 39.1N–.20 144.8E–.20 35 3.5b 7 29-68
IDC III 13 01 06 22.4–1.1 39.09N 144.76E 0 3.7,3.6 **¶17194653**
ISCJB III 13 01 06 25.2–1.0 39.1N–.10 144.8E–.30 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 01 08 40.5–.41 36.37N–.05 142.24E–.05 22–2 4.7b 231 1-146
NIED III 13 01 08 00 36.40N 142.30E 8 4.4W **¶16357274**
ISCJB III 13 01 08 37.4–1.7 36.37N–.03 142.25E–.04 10–10 4.6b
MOS III 13 01 08 38.2–.96 36.42N 142.21E 15 4.9b
NEIC III 13 01 08 38.9–2.3 36.32N 142.19E 10–14 4.8b
JMA III 13 01 08 39.3–.50 36.42N 142.32E 29 4.3
IDC III 13 01 08 41.9–.47 36.35N 142.23E 30–3 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ43.00000°,λ71.00000°. NP2:ϕ_s350.00000°,δ50.00000°,λ107.00000°. $M_0$5.21000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=31.6.
MOS Error ellipse: s-maj=8.9km s-min=5.7km az=118.5.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.5km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=11.8km s-min=10.0km az=120.0.
ISC III 13 01 13 45.8–.52 39.52N–.05 143.43E–.05 11 4.2b 65 2-81
ISCJB III 13 01 13 43.4–.38 39.52N–.03 143.52E–.05 11 4.2b **¶602658807**
JMA III 13 01 13 46.3–.80 39.68N 143.38E 6 4.3
IDC III 13 01 13 47.4–.74 39.48N 143.47E 25–3 4.1,4.0
NEIC III 13 01 13 48.2–1.9 39.48N 143.47E 33–13 4.4b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=2.9.
JMA Error ellipse: s-maj=5.6km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=13.6km az=152.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=112.0.
ISC III 13 01 14 13.4–.67 37.8N–.10 144.3E–.10 35 4.5b 30 5-76
ISCJB III 13 01 14 11.4–.48 37.80N–.09 144.22E–.09 33 4.3b **¶16452027**
NEIC III 13 01 14 13.7–.33 37.86N 144.24E 35 4.6b
IDC III 13 01 14 13.6–.72 37.83N 144.24E 32–5 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=7.2km az=147.7.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=5.3km az=146.0.
IDC Error ellipse: s-maj=27.8km s-min=14.1km az=123.0.
ISC III 13 01 16 07.9–.64 37.7N–.10 142.97E–.09 24 4.4b 32 4-145
ISCJB III 13 01 16 06.0–.56 37.70N–.09 142.96E–.09 24 4.2b **¶603049676**
IDC III 13 01 16 08.8–.52 37.68N 142.99E 29–3 4.2,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=9.9km az=156.3.
IDC Error ellipse: s-maj=14.9km s-min=11.9km az=137.0.
ISC III 13 01 16 15.1–.48 38.17N–.06 144.09E–.06 35 4.6b 168 3-144
ISCJB III 13 01 16 13.9–.23 38.19N–.03 143.94E–.03 33 4.5b **¶602658805**
NEIC III 13 01 16 14.7–2.1 38.13N 143.99E 30–14 4.7b
JMA III 13 01 16 15.4–.70 38.35N 143.53E 0 4.7
MOS III 13 01 16 15.2–1.3 38.43N 144.01E 38 4.8b
IDC III 13 01 16 25.9–.83 37.70N 142.96E 31–6 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=159.4.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.1km az=142.0.
JMA Error ellipse: s-maj=3.3km s-min=5.2km az=-1.0.
MOS Error ellipse: s-maj=10.1km s-min=6.2km az=82.1.
IDC Error ellipse: s-maj=18.9km s-min=15.6km az=106.0.
ISC III 13 01 18 03.7–.60 37.24N–.09 142.13E–.08 19 4.0b 35 3-118
ISCJB III 13 01 18 01.6–.48 37.18N–.07 142.17E–.07 19 4.0b **¶16452028**
NEIC III 13 01 18 03.7–2.8 37.23N 142.11E 19–18 4.3b
IDC III 13 01 18 04.8–.97 37.29N 142.21E 25–4 3.9,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=6.5km az=150.4.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.6km az=136.0.
IDC Error ellipse: s-maj=22.7km s-min=18.2km az=170.0.
ISC III 13 01 24 30.4–.40 36.78N–.05 142.23E–.05 10 4.5b 124 1-146
ISCJB III 13 01 24 28.6–.24 36.76N–.03 142.31E–.03 10 4.5b **¶16452031**
JMA III 13 01 24 29.0–.50 36.89N 142.33E 12 4.5
NEIC III 13 01 24 30.9–2.2 36.82N 142.19E 13–14 4.6b
IDC III 13 01 24 32.7–.54 36.77N 142.17E 27–3 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=154.8.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=127.0.
IDC Error ellipse: s-maj=12.2km s-min=10.7km az=144.0.
ISC III 13 01 31 30.6–.43 37.57N–.05 143.84E–.05 35 4.9b 135 2-150
MOS III 13 01 31 26.8–1.1 37.60N 143.91E 22 5.1b **¶16452032**
NEIC III 13 01 31 29.1–2.0 37.51N 143.84E 22–13 5.1b
ISCJB III 13 01 31 29.1–.28 37.61N–.03 143.75E–.03 33 5.9s,4.8b
JMA III 13 01 31 30.5–.50 37.57N 143.65E 43 5.4,4.8b
IDC III 13 01 31 32.1–.52 37.44N 143.87E 45–4 5.9s,5.9
ISC Event type se.
MOS Error ellipse: s-maj=9.0km s-min=6.4km az=87.6.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.1km az=166.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=145.0.
ISC III 13 01 38 12.1–.44 37.86N–.06 143.06E–.08 18 4.5b 98 4-151
MOS III 13 01 38 10.9–1.2 37.95N 143.07E 23 4.8b **¶16452033**
ISCJB III 13 01 38 10.4–.33 37.82N–.05 143.01E–.06 18 4.4b
NEIC III 13 01 38 11.5–2.3 37.89N 143.02E 12–14 4.6b
IDC III 13 01 38 13.7–.54 37.88N 142.98E 26–3 4.3,4.3
ISC Event type se.
MOS Error ellipse: s-maj=10.7km s-min=7.1km az=86.3.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=39.8.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=125.0.
IDC Error ellipse: s-maj=13.8km s-min=11.9km az=112.0.
ISC III 13 01 41 18.2–.90 36.6N–.20 143.2E–.10 35 3.8b 17 2-84
IDC III 13 01 41 18.3–.87 36.54N 143.19E 36–6 4.1L,3.8 **¶16461568**
JMA III 13 01 41 20.9–.40 36.27N 141.69E 24 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=19.2km az=124.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 13 01 42 53.4–.42 36.96N–.04 143.01E–.04 24–2 5.5b 1200 2-157
ISCJB III 13 01 42 49.6–1.0 36.93N–.02 142.93E–.02 6–6 5.8s,5.3b **¶16310878**
BJI III 13 01 42 51.5 37.00N 142.90E 22 5.9b,5.9s
GCMT III 13 01 42 51.2–.40 37.10N 143.24E 20–1 5.2W,5.9s
NEIC III 13 01 42 51.2–1.5 36.91N 142.90E 7–9 5.5b,5.9s
JMA III 13 01 42 52.9–.20 36.91N 142.93E 41 5.5,5.9s
MOS III 13 01 42 53.0–.89 37.05N 142.89E 26 5.6b,5.9s
IDC III 13 01 42 55.0–.53 36.91N 142.99E 35–3 5.1,5.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=165.3.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s4,c5; s72,c118; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.07 $M_{\theta\theta}$0.29±.04; $M_{\phi\phi}$0.42±.04; $M_{r\theta}$0.22±.07; $M_{\theta\phi}$0.41±.02; $M_{\phi r}$-0.37±.07; Best double couple: NP1:ϕ_s16.00000°,δ56.00000°,λ-121.00000°. NP2:ϕ_s243.00000°,δ45.00000°,λ-53.00000°. Principal axes: T 0.7830,Plg6.0000°,Azm128.0000°; N 0.1370,Plg25.0000°,Azm35.0000°; P -0.9200,Plg64.0000°,Azm230.0000° $M_0$0.85200×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.3km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=4.2km az=106.9.
IDC Error ellipse: s-maj=11.2km s-min=9.7km az=114.0.
IDC III 13 01 43 29.1–11 39.02N 144.65E 0 4.9,4.6
¶17194659
IDC Error ellipse: s-maj=377.8km s-min=55.2km az=24.0.
ISC III 13 01 47 58.2–.61 38.39N–.10 143.36E–.09 15 4.3b 46 4-88
ISCJB III 13 01 47 56.2–.43 38.36N–.07 143.35E–.08 15 4.2b **¶16452034**
NEIC III 13 01 47 59.7–2.8 38.35N 143.33E 28–20 4.4b
IDC III 13 01 47 59.8–.69 38.39N 143.34E 26–5 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.2km az=146.6.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.4km az=137.0.
IDC Error ellipse: s-maj=17.0km s-min=14.6km az=105.0.
ISC III 13 01 50 25.1–.93 36.4N–.10 142.21E–.09 19 3.5b 12 3-80
ISCJB III 13 01 50 23.9–.80 36.5N–.10 142.1E–.10 19 3.6b **¶17194660**
IDC III 13 01 50 23.1–.87 36.66N 142.22E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=14.8km az=43.5.
IDC Error ellipse: s-maj=24.5km s-min=20.8km az=68.0.
IDC III 13 01 53 33.9–16 37.24N 143.05E 0 4.0,3.9
¶17194666
IDC Error ellipse: s-maj=416.5km s-min=30.2km az=174.0.
ISC III 13 01 56 04.8–.62 37.97N–.06 142.56E–.07 14 4.2b 50 2-117
ISCJB III 13 01 56 02.4–.48 37.89N–.05 142.64E–.06 14 4.2b **¶602658763**
NEIC III 13 01 56 04.0–2.5 37.91N 142.58E 11–16 4.4b
JMA III 13 01 56 06.0–.70 38.14N 142.45E 19 4.4
IDC III 13 01 56 06.9–1.4 37.87N 142.53E 30–5 4.0,4.0
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.2km az=156.1.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.1km az=123.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=34.9km s-min=18.3km az=162.0.
ISC III 13 02 01 04.8–1.2 37.0N–.20 143.2E–.20 25 3.8b 8 4-70
IDC III 13 02 01 01.0–1.2 36.96N 143.23E 0 3.7,3.6b **¶17194667**
ISCJB III 13 02 01 02.5–1.1 36.9N–.20 143.2E–.20 25 3.7b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 02 03 08.7–.86 38.5N–.10 144.45E–.10 29 4.2b 26 4-123
IDC III 13 02 03 03.9–1.0 38.37N 144.52E 0 4.1,4.0 **¶16453118**
ISCJB III 13 02 03 06.6–.71 38.48N–.10 144.31E–.10 29 4.1b,4.0
NEIC III 13 02 03 08.2–3.8 38.51N 144.34E 26–25 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=20.4km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=11.1km az=167.9.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=11.2km az=137.0.
ISC III 13 02 03 37.0–.58 37.91N–.08 144.00E–.09 35 4.2b 55 4-144
NEIC III 13 02 03 33.9–2.7 37.94N 144.01E 12–16 4.5b **¶16453121**
ISCJB III 13 02 03 35.7–.50 37.97N–.08 143.91E–.08 33 4.2b
IDC III 13 02 03 38.2–3.3 38.00N 143.96E 40–29 4.2,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.0km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=7.8km az=150.0.
IDC Error ellipse: s-maj=18.0km s-min=15.1km az=104.0.
ISC III 13 02 08 48.5–.73 37.08N–.10 143.9E–.10 35 4.1b 21 5-82
IDC III 13 02 08 44.0–1.1 37.18N 144.07E 0 4.2L,4.0 **¶16453122**
ISCJB III 13 02 08 46.2–.57 37.02N–.07 143.9E–.10 33 4.0b,4.0
NEIC III 13 02 08 48.5–.61 37.07N 143.90E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=23.3km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=9.1km az=36.4.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=9.9km az=126.0.
ISC III 13 02 09 14.1–1.2 36.38N–.05 142.26E–.06 27–8 4.3b 85 1-151
IDC III 13 02 09 10.1–.51 36.41N 142.28E 0 4.3,4.2 **¶16453125**
ISCJB III 13 02 09 12.5–1.6 36.36N–.03 142.27E–.04 30–11 4.3b,4.2
JMA III 13 02 09 13.6–.30 36.50N 142.22E 63 4.3,4.2
NEIC III 13 02 09 14.9–1.6 36.37N 142.27E 33–11 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.0km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.8km az=38.6.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=113.0.
ISC III 13 02 12 16.1–.50 36.60N–.05 143.51E–.06 35 4.3b 70 2-145
IDC III 13 02 12 10.7–.53 36.54N 143.68E 0 4.4,4.3 **¶602658745**
NEIC III 13 02 12 11.9–3.5 36.50N 143.68E 9–22 4.4b,4.3
ISCJB III 13 02 12 14.2–.35 36.58N–.05 143.49E–.04 33 4.2b,4.3
JMA III 13 02 12 15.8–.30 36.67N 143.38E 75 4.5,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=13.2km az=130.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=7.2km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.9km az=164.1.

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 13 02 13 54.3–.34 36.58N–.05 143.54E–.06 35 4.7b 519 2-153
JMA III 13 02 13 43.7–.30 37.99N 141.93E 32 3.9 **¶602658740**
IDC III 13 02 13 49.0–.47 36.60N 143.63E 0 4.6,4.5
NEIC III 13 02 13 51.0–2.2 36.59N 143.55E 10–14 4.8b,4.5
ISCJB III 13 02 13 52.7–.18 36.61N–.04 143.52E–.03 33 6.6s,4.6b
MOS III 13 02 13 54.1–.89 36.92N 143.51E 31 4.9b,4.6b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=12.1km az=118.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=147.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.7km az=165.6.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=102.5.
ISC III 13 02 16 41.0–.74 36.69N–.09 144.06E–.10 35 4.1b 35 5-89
IDC III 13 02 16 35.9–.71 36.73N 144.15E 0 4.1,4.0 **¶16453127**
NEIC III 13 02 16 38.8–4.0 36.72N 144.11E 19–23 4.4b,4.0
ISCJB III 13 02 16 38.8–.53 36.66N–.06 144.01E–.08 33 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 02 18 12.2–1.0 36.1N–.10 142.2E–.10 23 4.0b 23 3-84
IDC III 13 02 18 08.3–.94 36.09N 142.31E 0 4.0,3.8 **¶16453128**
ISCJB III 13 02 18 10.2–.78 36.1N–.10 142.2E–.10 23 3.9b,3.8
NEIC III 13 02 18 14.0–.54 36.05N 142.14E 35 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=19.1km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=14.4km az=31.1.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=10.2km az=162.0.
ISC III 13 02 23 36.2–.36 36.34N–.03 142.34E–.03 20–3 5.8s,5.6b 1287 2-157
BJI III 13 02 23 33.6 36.30N 142.40E 26 6.4s,6.2 **¶17194670**
NEIC III 13 02 23 34.5–2.2 36.34N 142.34E 10–13 5.7s,5.6b
GCMT III 13 02 23 34.5–.10 36.35N 142.24E 12 5.8W,5.6b
ISCJB III 13 02 23 36.4–.08 36.33N–.02 142.33E–.02 29 5.8s,5.5b
MOS III 13 02 23 36.5–.96 36.31N 142.32E 33 5.8s,5.7b
IDC III 13 02 23 38.9–2.2 36.31N 142.34E 38–19 5.0,4.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=131.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s105,c206; s132,c296;Duration: 1$s8 Moment tensor: Scale 10^{17}Nm; M_{rr}5.87±.04 $M_{\theta\theta}$-3.75±.04; $M_{\phi\phi}$-2.12±.04; $M_{r\theta}$-1.93±.13; $M_{\theta\phi}$-1.06±.04; $M_{\phi r}$0.61±.14; Best double couple: NP1: ϕ_s256.00000°,δ54.00000°,λ101.00000°. NP2:ϕ_s57.00000°,δ37.00000°,λ75.00000°. Principal axes: T 6.3200,Plg77.0000°,Azm206.0000°; N -1.8270,Plg9.0000°,Azm69.0000° ; P -4.4930,Plg9.0000°,Azm338.0000° $M_0$5.40600×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=1.7km az=161.0.
MOS Error ellipse: s-maj=6.2km s-min=4.3km az=108.4.
IDC Error ellipse: s-maj=12.4km s-min=9.6km az=87.0.
ISC III 13 02 30 11.7–.74 39.42N–.06 144.83E–.07 38 4.2b 37 3-87
IDC III 13 02 30 06.6–1.1 39.30N 144.86E 0 4.2,4.1L **¶16453131**
JMA III 13 02 30 10.7–.70 39.54N 144.76E 43 4.2,4.1L
NEIC III 13 02 30 11.9–.52 39.26N 144.80E 35 4.4b,4.1L
ISCJB III 13 02 30 11.9–.60 39.57N–.04 144.68E–.05 38 4.2b,4.1L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 02 37 44.7–.56 37.29N–.07 143.22E–.07 24 4.3b 57 2-145
IDC III 13 02 37 41.4–.63 37.35N 143.22E 0 4.4,4.2 **¶602658723**
NEIC III 13 02 37 43.5–2.9 37.42N 143.20E 12–17 4.4b,4.2
ISCJB III 13 02 37 43.3–.41 37.37N–.05 143.16E–.05 24 4.2b,4.2
JMA III 13 02 37 46.7–.20 37.28N 143.02E 71 4.1,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=16.6km s-min=14.2km az=150.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.1km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.2km az=141.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 02 39 21.5–1.8 36.93N–.05 142.98E–.05 10–10 4.9b 303 2-154
IDC III 13 02 39 19.8–.48 36.89N 143.03E 0 4.7,4.6 **¶602658718**
ISCJB III 13 02 39 20.2–1.2 36.94N–.03 142.91E–.03 8–7 5.3s,4.8b
NEIC III 13 02 39 21.7–1.8 36.96N 142.91E 7–11 4.9b,4.8b
MOS III 13 02 39 23.9–.84 37.25N 142.86E 25 4.9b,4.8b
JMA III 13 02 39 23.8–.20 36.94N 142.90E 59 4.5,4.8b
BJI III 13 02 39 23.5 37.17N 142.84E 25 5.6s,5.5
ISC Event type ke.
IDC Error ellipse: s-maj=13.0km s-min=10.5km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.1km az=156.2.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=142.0.
MOS Error ellipse: s-maj=7.5km s-min=5.3km az=105.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 13 02 42 27.5–.32 39.74N–.04 144.45E–.04 23 5.0b 362 2-149
IDC III 13 02 42 23.7–.47 39.61N 144.50E 0 4.7,4.7 **¶16310884**
ISCJB III 13 02 42 24.1–1.0 39.73N–.02 144.35E–.03 6–6 5.5s,4.9b
NEIC III 13 02 42 26.8–2.2 39.69N 144.35E 14–13 5.1b,4.9b
JMA III 13 02 42 26.5–.70 39.78N 144.45E 44 4.8,4.9b
MOS III 13 02 42 27.1–1.2 39.78N 144.37E 27 5.1b,4.9b
BJI III 13 02 42 27.3 39.83N 144.18E 17 5.7s,5.5
ISC Event type se.
IDC Error ellipse: s-maj=12.1km s-min=11.5km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=146.7.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=131.0.
JMA Error ellipse: s-maj=4.4km s-min=5.1km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=103.4.
ISC III 13 02 48 19.0–.89 36.87N–.05 142.66E–.05 23–5 5.3s,5.0b 698 2-151
NIED III 13 02 48 00 36.70N 142.50E 8 4.7W,5.0b **¶16357277**
BJI III 13 02 48 14.9 36.69N 142.86E 22 5.6s,5.5b
JMA III 13 02 48 16.5–.80 36.66N 142.47E 4 5.0,5.5b
ISCJB III 13 02 48 16.9–1.1 36.82N–.03 142.62E–.03 19–7 5.3s,4.9b
NEIC III 13 02 48 17.6–1.8 36.85N 142.60E 13–11 5.1b,4.9b
IDC III 13 02 48 20.4–3.0 36.86N 142.67E 33–22 4.7,4.6
MOS III 13 02 48 20.0–1.0 36.83N 142.58E 44 5.1b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ48.00000°,λ53.00000°. NP2: ϕ_s237.00000°,δ53.00000°,λ124.00000°. $M_0$1.35000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=7.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=159.4.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.5km az=139.0.
IDC Error ellipse: s-maj=11.5km s-min=9.4km az=129.0.
MOS Error ellipse: s-maj=6.5km s-min=4.7km az=101.1.
IDC III 13 02 50 55.6–1.1 37.16N 143.82E 0 4.1,3.8
¶603049684
IDC Error ellipse: s-maj=37.1km s-min=27.2km az=143.0.
ISC III 13 02 51 10.3–.67 36.72N–.10 143.5E–.10 35 4.2b 25 4-89
IDC III 13 02 51 05.3–.74 36.77N 143.59E 0 4.2,4.0 **¶600542889**
ISCJB III 13 02 51 08.1–.49 36.64N–.08 143.39E–.08 33 4.2b,4.0
NEIC III 13 02 51 10.3–.44 36.70N 143.45E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=17.5km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=8.8km az=167.3.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.5km az=161.0.
ISC III 13 02 51 25.6–.28 36.98N–.04 143.33E–.04 35 5.4s,5.3b 955 2-153
IDC III 13 02 51 20.0–.37 36.88N 143.38E 0 4.9,4.9 **¶17194676**
MOS III 13 02 51 21.9–1.0 36.92N 143.33E 21 5.3b,4.9
JMA III 13 02 51 22.0–.50 36.99N 143.26E 24 5.2,4.9
NEIC III 13 02 51 22.4–1.8 36.91N 143.33E 13–11 5.4b,4.9
ISCJB III 13 02 51 23.9–.10 36.93N–.02 143.31E–.02 33 5.5s,5.2b
BJI III 13 02 51 24.4 37.23N 142.94E 20 5.8b,5.5s
GCMT III 13 02 51 24.2–.30 37.12N 143.49E 12 5.3W,5.5s
ISC Event type se.
IDC Error ellipse: s-maj=10.9km s-min=9.3km az=119.0.
MOS Error ellipse: s-maj=6.3km s-min=4.7km az=101.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=1.8km az=161.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s102,c173; Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.88±.02 $M_{\theta\theta}$0.20±.02; $M_{\phi\phi}$0.67±.02; $M_{r\theta}$0.63±.10; $M_{\theta\phi}$0.27±.02; $M_{\phi r}$-0.55±.09; Best double couple: NP1:ϕ_s349.00000°,δ64.00000° ,λ-119.00000°. NP2:ϕ_s220.00000°,δ38.00000°,λ-46.00000°. Principal axes: T 0.8600,Plg14.0000°,Azm100.0000°; N 0.4930,Plg26.0000°,Azm3.0000° ; P -1.3530,Plg60.0000°,Azm216.0000° $M_0$1.10600×10^{17}
ISC III 13 02 53 21.8–.50 39.62N–.06 143.48E–.06 11 5.0b 140 2-150
ISCJB III 13 02 53 20.8–.31 39.69N–.03 143.46E–.04 11 4.8b **¶602658709**
JMA III 13 02 53 20.8–.30 39.63N 143.56E 19–4 5.2
MOS III 13 02 53 22.7–1.1 39.54N 143.40E 29 5.1b
NEIC III 13 02 53 23.3–2.2 39.47N 143.27E 22–15 5.1b
IDC III 13 02 53 25.2–4.3 39.50N 143.28E 33–32 4.7,4.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=39.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=87.9.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.0km az=159.0.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=149.0.
ISC III 13 02 55 29.4–.56 37.22N–.07 143.30E–.08 35 4.3b 36 4-89
IDC III 13 02 55 24.7–.62 37.31N 143.36E 0 4.9,4.9s **¶16453134**
ISCJB III 13 02 55 27.3–.42 37.22N–.05 143.30E–.06 33 4.9s,4.3b
NEIC III 13 02 55 29.8–1.0 37.26N 143.26E 36–9 4.5b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.9km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.4km az=141.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.0km az=107.0.
ISC III 13 02 57 14.8–.89 36.92N–.04 143.34E–.04 26–6 5.3s,5.0b 461 2-160
IDC III 13 02 57 10.5–.36 36.83N 143.43E 0 4.8,4.8 **¶602658701**
ISCJB III 13 02 57 13.8–.14 36.89N–.03 143.27E–.02 27 5.0s,5.0b
NEIC III 13 02 57 13.4–1.8 36.88N 143.30E 15–11 5.1b,5.0b
MOS III 13 02 57 13.3–.98 36.96N 143.32E 23 5.1b,5.0b
GCMT III 13 02 57 13.4–.40 37.03N 143.41E 21–1 5.3W,5.0b
JMA III 13 02 57 14.2–.80 37.00N 143.21E 46 5.0,5.0b
BJI III 13 02 57 17.4 37.24N 142.80E 25 5.5s,5.2
ISC Event type ke.
IDC Error ellipse: s-maj=10.8km s-min=9.8km az=129.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.3km az=160.2.
NEIC Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=136.0.
MOS Error ellipse: s-maj=6.7km s-min=5.0km az=93.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s75,c111; Duration: 1$s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.09 $M_{\theta\theta}$0.39±.05; $M_{\phi\phi}$0.76±.06; $M_{r\theta}$0.00±.10; $M_{\theta\phi}$0.22±.02; $M_{\phi r}$0.02±.10; Best double couple: NP1:ϕ_s205.00000°,δ46.00000° ,λ-90.00000°. NP2:ϕ_s25.00000°,δ44.00000°,λ-90.00000°. Principal axes: T 0.8720,Plg1.0000°,Azm295.0000°; N 0.2910,Plg0.0000°,Azm205.0000° ; P -1.1600,Plg89.0000°,Azm89.0000° $M_0$1.01600×10^{17}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.
ISC III 13 03 00 56.0–.77 36.03N–.07 142.3E–.10 18 4.3b 28 3-151
ISCJB III 13 03 00 53.8–.60 35.96N–.04 142.32E–.10 18 4.2b **¶16477305**
IDC III 13 03 00 53.9–.95 36.24N 142.44E 0 4.2,4.1
NEIC III 13 03 00 58.7–.51 36.09N 142.26E 35 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=5.8km az=174.0.
IDC Error ellipse: s-maj=26.3km s-min=18.5km az=81.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.9km az=64.0.
IDC III 13 03 04 48.1–1.5 37.20N 142.74E 0 3.7,3.7
¶16477308
IDC Error ellipse: s-maj=41.6km s-min=31.1km az=64.0.
ISC III 13 03 07 42.3–.34 36.97N–.04 142.60E–.05 9 4.8b,4.7s 345 1-151
IDC III 13 03 07 40.7–.46 36.96N 142.62E 0 4.7s,4.7 **¶603049687**
ISCJB III 13 03 07 41.4–.16 37.01N–.03 142.57E–.03 9 4.8b,4.7s
JMA III 13 03 07 42.3–.50 37.02N 142.50E 2 5.4,4.7s
MOS III 13 03 07 43.1–1.1 37.00N 142.55E 23 5.0b,4.6s
NEIC III 13 03 07 44.1–2.0 37.00N 142.54E 17–12 4.9b,4.6s
ISC Event type fe.
IDC Error ellipse: s-maj=12.1km s-min=11.0km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=151.7.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=5.4km az=106.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=133.0.
ISC III 13 03 09 52.6–.63 38.1N–.10 144.0E–.10 35 4.4b 39 11-150
IDC III 13 03 09 47.5–.74 38.15N 143.92E 0 4.5,4.3 **¶16477235**
ISCJB III 13 03 09 50.7–.42 38.13N–.08 143.92E–.09 33 4.4b,4.3
NEIC III 13 03 09 51.5–5.2 38.17N 143.92E 25–36 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=19.7km az=123.0.
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=9.6km az=157.3.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=6.2km az=128.0. Recorded [3 JMA] in Chiba.
IDC III 13 03 17 17.1–1.4 39.64N 144.77E 0 4.0,3.9
¶17194690
IDC Error ellipse: s-maj=48.1km s-min=22.1km az=79.0.
ISC III 13 03 18 34.3–.73 37.69N–.07 142.59E–.08 21 4.1b 35 2-74
ISCJB III 13 03 18 31.8–.50 37.66N–.05 142.72E–.07 21 4.0b **¶16461572**
IDC III 13 03 18 31.3–1.0 37.74N 142.56E 0 4.0,4.0b
JMA III 13 03 18 32.1–.80 37.69N 142.59E 0 4.2,4.0b
NEIC III 13 03 18 32.6–4.0 37.72N 142.65E 11–25 4.3b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.4km az=24.4.
IDC Error ellipse: s-maj=26.3km s-min=17.7km az=100.0.
JMA Error ellipse: s-maj=7.8km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.3km az=86.0.
ISC III 13 03 20 13.0–.87 36.2N–.10 142.4E–.10 15 4.0b 21 3-75
ISCJB III 13 03 20 10.7–.70 36.19N–.09 142.5E–.10 15 3.9b **¶16477236**
IDC III 13 03 20 11.1–1.2 36.31N 142.47E 0 3.8,3.8b
NEIC III 13 03 20 16.9–2.0 36.28N 142.30E 39–15 4.1b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=11.9km az=156.3.
IDC Error ellipse: s-maj=34.0km s-min=23.1km az=66.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=11.3km az=72.0.
ISC III 13 03 24 48.0–.60 36.79N–.07 143.06E–.07 25 3.8b 38 2-89
IDC III 13 03 24 44.5–.66 36.83N 143.08E 0 4.0,3.9 **¶16477237**
ISCJB III 13 03 24 46.2–.44 36.72N–.05 143.07E–.06 25 3.9b,3.9
NEIC III 13 03 24 49.6–.37 36.85N 143.00E 35 4.4b,3.9
JMA III 13 03 25 09.4–.10 36.67N 141.08E 40–2 3.7,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.3km az=39.1.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.8km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 13 03 27 59.4–1.3 36.68N 143.20E 0 4.0s,4.0
¶17194694
IDC Error ellipse: s-maj=41.7km s-min=33.1km az=129.0.
ISC III 13 03 31 26.4–.83 38.3N–.10 143.6E–.10 15 3.8b 15 11-88
IDC III 13 03 31 23.9–.78 38.25N 143.60E 0 4.1,3.9 **¶16477325**
ISCJB III 13 03 31 24.4–.65 38.2N–.10 143.5E–.10 15 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 03 34 09.1–.40 37.58N–.05 142.90E–.05 23–2 4.8b 347 2-151
IDC III 13 03 34 05.5–.42 37.57N 142.88E 0 4.7,4.6 **¶16357280**
JMA III 13 03 34 08.6–.20 37.58N 142.91E 41 4.7,4.6
ISCJB III 13 03 34 08.4–.18 37.60N–.03 142.83E–.03 26 4.7b,4.6
MOS III 13 03 34 09.1–.89 37.85N 142.84E 25 4.9b,4.6
NEIC III 13 03 34 09.7–1.6 37.60N 142.81E 24–11 4.8b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=10.5km az=106.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=158.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=99.8.

NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=141.0. Recorded [3 JMA] in Gumma and Nagano.
ISC III 13 03 36 59.3–.63 38.00N–.09 144.51E–.10 35 4.2b 43 4-88
IDC III 13 03 36 54.5–.70 38.07N 144.60E 0 4.2,4.1 **¶16477327**
NEIC III 13 03 36 57.6–2.7 38.09N 144.54E 20–18 4.5b,4.1
ISCJB III 13 03 36 57.6–.49 38.06N–.07 144.47E–.08 33 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 03 37 46.4–.92 36.7N–.20 142.6E–.20 15 3.8b 11 43-90
IDC III 13 03 37 43.9–.88 36.72N 142.68E 0 4.0,3.8 **¶17194699**
ISCJB III 13 03 37 44.4–.75 36.7N–.10 142.6E–.20 15 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 03 38 41.6–3.0 37.30N 143.62E 0 3.9,3.8b
¶17194703
IDC Error ellipse: s-maj=76.8km s-min=35.6km az=58.0.
IDC III 13 03 39 23.8–1.4 36.52N 143.10E 0 3.8,3.6
¶17194706
IDC Error ellipse: s-maj=38.5km s-min=30.3km az=94.0.
ISC III 13 03 42 33.1–.67 38.10N–.06 144.33E–.08 35 3.9b 40 3-118
IDC III 13 03 42 27.4–.66 37.95N 144.52E 0 4.0,3.9 **¶16477238**
NEIC III 13 03 42 28.4–4.3 37.99N 144.47E 6–26 4.3b,3.9
ISCJB III 13 03 42 30.8–.46 38.07N–.04 144.34E–.06 33 3.9b,3.9
JMA III 13 03 42 31.0–.90 38.11N 144.38E 51 4.4,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=14.0km az=113.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.0km az=31.6.
JMA Error ellipse: s-maj=5.6km s-min=7.0km az=-1.0.
ISC III 13 03 50 12.2–.42 39.68N–.05 143.61E–.05 11 4.5b 124 2-146
ISCJB III 13 03 50 10.5–.29 39.64N–.03 143.60E–.04 11 4.3b **¶16461512**
IDC III 13 03 50 10.7–.54 39.68N 143.62E 0 4.3,4.2
JMA III 13 03 50 11.2–.30 39.80N 143.51E 0 4.7,4.2
MOS III 13 03 50 12.4–.76 39.67N 143.57E 24 4.9b,4.2
NEIC III 13 03 50 13.3–2.5 39.65N 143.59E 18–15 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.5km az=141.4.
IDC Error ellipse: s-maj=15.1km s-min=12.0km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=10.0km s-min=6.3km az=91.1.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=105.0.
ISC III 13 03 54 42.1–.37 38.65N–.04 144.82E–.05 23–2 4.9b 455 3-153
NIED III 13 03 54 00 38.60N 144.90E 5 4.7W **¶16357282**
IDC III 13 03 54 38.2–.41 38.57N 144.88E 0 4.7,4.6
ISCJB III 13 03 54 39.0–1.2 38.62N–.03 144.74E–.02 10–7 4.8b,4.4s
JMA III 13 03 54 40.3–.50 38.59N 144.87E 51 4.8,4.4s
MOS III 13 03 54 41.2–.95 38.59N 144.74E 27 5.1b,4.4s
NEIC III 13 03 54 43.1–.60 38.64N 144.75E 27–4 4.9b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ30.00000°,λ-76.00000°. NP2:ϕ_s182.00000°,δ61.00000°,λ-98.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=12.0km s-min=9.9km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=156.9.
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=101.5.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=143.0.
ISC III 13 03 58 38.5–1.1 38.8N–.20 143.6E–.10 20 3.9b 19 5-129
IDC III 13 03 58 35.9–1.6 38.85N 143.67E 0 4.0,3.8b **¶16477241**
ISCJB III 13 03 58 36.8–.94 38.8N–.10 143.5E–.10 20 3.9b,3.8b
NEIC III 13 03 58 37.3–4.8 38.83N 143.56E 11–30 4.3b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=42.9km s-min=22.1km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=22.8km s-min=9.0km az=158.5.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=9.8km az=152.0.
ISC III 13 03 59 16.7–.57 38.93N–.07 143.07E–.07 16 4.2b 50 2-88
IDC III 13 03 59 13.2–.71 38.75N 143.09E 0 4.2,4.1 **¶16461580**
ISCJB III 13 03 59 15.5–.43 39.02N–.05 143.00E–.07 16 4.2b,4.1
NEIC III 13 03 59 17.1–2.6 38.85N 143.16E 22–18 4.5b,4.1
JMA III 13 03 59 45.0–.30 37.71N 141.83E 4–3 4.6,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=16.3km az=152.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.0km az=42.2.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.8km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 13 04 04 54.2–1.3 38.30N 143.42E 0 3.9,3.7
¶17194708
IDC Error ellipse: s-maj=75.0km s-min=29.8km az=98.0.
ISC III 13 04 05 54.3–.63 36.17N–.09 142.3E–.10 18 4.2b 30 3-90
IDC III 13 04 05 51.6–.71 36.18N 142.33E 0 4.2,4.0 **¶16461581**
ISCJB III 13 04 05 52.3–.46 36.14N–.06 142.34E–.09 18 4.1b,4.0
NEIC III 13 04 05 55.7–2.7 36.18N 142.30E 27–19 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=17.5km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=9.2km az=16.4.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.0km az=54.0.
IDC III 13 04 20 17.1–1.1 37.32N 143.49E 0 3.8,3.6
¶17194710
IDC Error ellipse: s-maj=43.0km s-min=25.0km az=107.0.
ISC III 13 04 21 46.4–.74 37.9N–.10 144.68E–.09 35 4.3b 44 5-118
IDC III 13 04 21 41.0–.68 37.88N 144.74E 0 4.2,4.1 **¶602658630**
NEIC III 13 04 21 44.0–3.4 37.92N 144.70E 18–20 4.4b,4.1
ISCJB III 13 04 21 44.5–.52 37.91N–.09 144.62E–.07 33 4.2b,4.1
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 13 04 23 23.3–.49 38.21N–.04 143.08E–.03 27–3 5.2b,4.8s 1113 2-159
IDC III 13 04 23 19.3–.36 38.17N 143.08E 0 5.0,5.0 **¶600543005**
BJI III 13 04 23 19.4 38.23N 143.25E 24 5.3b,4.9b
ISCJB III 13 04 23 19.3–1.0 38.19N–.02 143.01E–.02 8–6 5.2b,4.8s
MOS III 13 04 23 21.3–.86 38.36N 142.98E 18 5.4b,4.7s
JMA III 13 04 23 22.1–.50 38.13N 143.08E 23 5.3,4.7s
GCMT III 13 04 23 23.7–.40 38.24N 143.12E 28–1 5.1W,4.7s
NEIC III 13 04 23 23.7–.92 38.19N 142.97E 27–6 5.2b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=9.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.2km az=166.0.
MOS Error ellipse: s-maj=5.5km s-min=3.8km az=99.6.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c23; s64,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.86±.58 $M_{\theta\theta}$-5.88±.32; $M_{\phi\phi}$1.02±.32; $M_{r\theta}$-0.79±.39; $M_{\theta\phi}$1.82±.19; $M_{r\phi}$0.41±.64; Best double couple: NP1:ϕ_s287.00000°,δ50.00000°,λ95.00000°. NP2:ϕ_s100.00000°,δ41.00000°,λ85.00000°. Principal axes:
T 4.9400,Plg84.0000°,Azm232.0000°; N 1.4580,Plg3.0000°,Azm104.0000°
; P -6.3980,Plg4.0000°,Azm14.0000° $M_0$5.66900×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.0km az=139.0.
ISC III 13 04 26 05.6–.69 39.7N–.10 143.25E–.10 22–6 4.5b 34 5-80
NEIC III 13 04 26 05.2–9.0 39.71N 143.17E 18–59 4.7b **¶17194713**
ISCJB III 13 04 26 05.2–3.0 39.7N–.20 143.2E–.10 33–32 4.5b
IDC III 13 04 26 06.6–2.4 39.75N 143.20E 24–5 4.3,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=8.4km az=184.0.
ISCJB Event type se. Error ellipse: s-maj=27.3km s-min=12.9km az=9.2.
IDC Error ellipse: s-maj=71.8km s-min=21.1km az=178.0.
ISC III 13 04 26 10.1–.94 37.61N–.09 143.7E–.10 35 4.4b 14 4-62
IDC III 13 04 26 05.3–.91 37.66N 143.81E 0 4.6,4.5 **¶16477341**
ISCJB III 13 04 26 07.7–.74 37.66N–.09 143.7E–.10 33 4.4b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 04 31 15.4–.72 37.6N–.10 144.40E–.08 35 4.3b 42 5-88
IDC III 13 04 31 10.1–.64 37.56N 144.44E 0 4.3,4.1 **¶16461584**
ISCJB III 13 04 31 13.2–.46 37.54N–.08 144.40E–.06 33 4.2b,4.1
NEIC III 13 04 31 14.9–2.8 37.54N 144.44E 32–20 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=14.9km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=6.0km az=161.4.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.0km az=145.0.
ISC III 13 04 31 36.1–.69 36.9N–.10 144.5E–.20 26 4.2b 17 10-88
IDC III 13 04 31 32.3–.81 36.98N 144.45E 0 4.2,4.0 **¶16477246**
ISCJB III 13 04 31 33.9–.57 36.87N–.08 144.5E–.20 26 4.1b,4.0
NEIC III 13 04 31 37.4–.42 36.91N 144.50E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=29.1km s-min=20.1km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=12.0km az=6.6.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.1km az=98.0.
ISC III 13 04 36 07.8–.65 39.83N–.06 144.48E–.05 27–3 4.6b 185 2-122
NEIC III 13 04 36 05.2–3.8 39.77N 144.50E 8–23 4.7b **¶16461585**
ISCJB III 13 04 36 06.0–1.4 39.95N–.03 144.43E–.04 15–9 5.6s,4.5b
JMA III 13 04 36 07.4–.50 39.84N 144.17E 20 4.5,4.5b
IDC III 13 04 36 10.2–1.5 39.97N 144.49E 35–4 4.4,4.4
MOS III 13 04 36 12.2–1.1 40.35N 144.49E 48 4.9b,4.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=5.0km az=153.8.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=39.1km s-min=13.9km az=177.0.
MOS Error ellipse: s-maj=11.2km s-min=5.8km az=107.5.
IDC III 13 04 37 57.1–2.5 39.52N 143.69E 0 4.3,4.2
¶17194720
IDC Error ellipse: s-maj=119.6km s-min=23.0km az=76.0.
ISC III 13 04 40 16.8–.77 38.2N–.10 144.6E–.10 35 4.4b 41 4-118
IDC III 13 04 40 11.5–.82 38.07N 144.66E 0 4.5,4.3 **¶16477349**
ISCJB III 13 04 40 15.1–.58 38.2N–.10 144.62E–.09 33 4.3b,4.3
NEIC III 13 04 40 16.2–3.8 38.13N 144.69E 31–25 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=18.7km az=179.0.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=9.8km az=2.3.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=6.8km az=175.0.
ISC III 13 04 40 28.1–.36 36.30N–.04 142.32E–.04 21–4 5.4s,5.1b 471 1-154
NIED III 13 04 40 00 36.30N 142.40E 5 5.4W,5.1b **¶602658601**
ISCJB III 13 04 40 25.4–.83 36.30N–.03 142.28E–.02 10–5 5.4s,5.0b
JMA III 13 04 40 26.2–.30 36.33N 142.40E 27 5.6,5.0b
MOS III 13 04 40 27.0–1.0 36.37N 142.30E 21 5.4s,5.3b
GCMT III 13 04 40 27.1–.20 36.42N 142.22E 12 5.1W,5.3b
BJI III 13 04 40 27.2 36.25N 142.09E 19 5.4b,5.4s
NEIC III 13 04 40 27.1–2.0 36.30N 142.26E 12–12 5.1b,5.4s
IDC III 13 04 40 29.1–.41 36.24N 142.35E 29–2 5.0,5.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ18.00000°,λ13.00000°. NP2:ϕ_s301.00000°,δ86.00000°,λ107.00000°. $M_0$1.58000×10^{17}
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.8km az=159.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=110.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c39; s96,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.10±.15 $M_{\theta\theta}$-5.83±.12; $M_{\phi\phi}$3.73±.12; $M_{r\theta}$-3.41±.35; $M_{\theta\phi}$-0.76±.12; $M_{r\phi}$1.62±.41; Best double couple: NP1:ϕ_s302.00000°,δ79.00000°,λ136.00000°. NP2:ϕ_s43.00000°,δ47.00000°,λ16.00000°. Principal axes:
T 5.3420,Plg39.0000°,Azm252.0000°; N 1.7550,Plg44.0000°,Azm110.0000°
; P -7.0970,Plg20.0000°,Azm359.0000° $M_0$6.22000×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=130.0.
IDC Error ellipse: s-maj=11.2km s-min=9.2km az=94.0.
ISC III 13 04 48 33.9–.56 37.91N–.06 143.12E–.08 18 3.9b 39 2-89
ISCJB III 13 04 48 32.3–.49 38.00N–.05 143.11E–.06 18 3.9b **¶602658581**
JMA III 13 04 48 33.3–.60 38.12N 142.78E 1 4.5
IDC III 13 04 48 36.4–.78 38.02N 143.11E 34–5 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.8km az=138.6.
JMA Error ellipse: s-maj=2.2km s-min=5.2km az=-1.0.
IDC Error ellipse: s-maj=16.0km s-min=13.8km az=102.0.
IDC III 13 04 48 53.1–6.2 38.35N 144.21E 0 4.4L,4.2
¶17194726
IDC Error ellipse: s-maj=145.4km s-min=49.5km az=142.0.
ISC III 13 04 54 01.3–.62 36.82N–.06 142.30E–.08 10 4.0b 33 2-146
ISCJB III 13 04 53 59.5–.50 36.86N–.05 142.34E–.06 10 4.0b **¶17194727**
IDC III 13 04 54 00.4–.70 36.97N 142.25E 0 4.1,4.0
JMA III 13 04 54 03.5–.30 36.99N 142.07E 0 4.7,4.0
NEIC III 13 04 54 05.0–5.8 36.82N 142.15E 35–41 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=7.0km az=155.2.
IDC Error ellipse: s-maj=22.5km s-min=16.0km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=7.0km az=84.0.
ISC III 13 04 56 13.2–.83 36.72N–.05 142.36E–.07 15 3.7b 31 1-90
ISCJB III 13 04 56 11.7–.58 36.67N–.05 142.40E–.05 15 3.7b **¶17194729**
IDC III 13 04 56 11.0–.86 36.67N 142.50E 0 3.9,3.9L
JMA III 13 04 56 12.6–.40 36.80N 142.33E 14 4.0,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.5km az=157.3.
IDC Error ellipse: s-maj=40.0km s-min=16.8km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 13 05 08 22.4–.65 38.44N–.10 144.4E–.10 29 3.8b 30 5-118
IDC III 13 05 08 17.4–1.7 38.32N 144.29E 0 4.2,4.2s **¶603049695**
ISCJB III 13 05 08 21.0–.61 38.50N–.09 144.3E–.10 29 4.1s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 05 08 30.2–.65 38.62N–.07 144.07E–.06 19–2 4.6b 193 3-143
IDC III 13 05 08 27.5–.60 37.91N 144.25E 27–4 4.2,4.2 **¶16310899**
MOS III 13 05 08 29.5–.99 38.66N 143.95E 25 4.8b,4.2
ISCJB III 13 05 08 30.1–.26 38.66N–.04 143.96E–.04 28 4.5b,4.2
NEIC III 13 05 08 32.4–.26 38.58N 143.94E 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=13.4km az=82.0.
MOS Error ellipse: s-maj=10.2km s-min=7.0km az=99.2.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.5km az=158.1.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.5km az=156.0.
ISC III 13 05 08 47.3–1.1 37.9N–.20 144.2E–.30 35 4.0b 5 6-75
IDC III 13 05 08 42.4–.94 37.84N 144.14E 0 4.2,3.9b **¶17194735**
ISCJB III 13 05 08 45.6–.90 37.8N–.20 144.0E–.30 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 05 11 06.1–.42 36.79N–.05 142.92E–.06 25 4.4b 104 2-151
NIED III 13 05 11 00 36.90N 142.70E 14 4.3W **¶602658560**
ISCJB III 13 05 11 05.0–.35 36.81N–.05 142.82E–.05 25 4.4s,4.4b
MOS III 13 05 11 05.5–1.1 36.98N 142.90E 29 5.0b,4.4b
JMA III 13 05 11 06.4–.20 36.90N 142.67E 21 4.5,4.4b
NEIC III 13 05 11 08.2–.31 36.92N 142.89E 35 4.7b,4.4b
IDC III 13 05 11 08.1–.58 36.87N 142.88E 33–3 4.4,4.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ50.00000°,λ-141.00000°. NP2:ϕ_s259.00000°,δ61.00000°,λ-47.00000°. $M_0$3.06000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=159.3.
MOS Error ellipse: s-maj=10.8km s-min=7.3km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=144.0.
IDC Error ellipse: s-maj=13.5km s-min=11.4km az=105.0.
ISC III 13 05 13 00.5–.76 37.3N–.10 144.7E–.20 35 4.0b 13 48-88
ISCJB III 13 05 12 58.4–.77 37.2N–.10 144.6E–.20 33 4.0b **¶17194736**
IDC III 13 05 13 00.7–.66 37.32N 144.65E 35–5 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.5km s-min=20.3km az=10.0.

IDC Error ellipse: s-maj=24.4km s-min=16.4km az=102.0.
ISC III 13 05 15 23.0–1.4 37.23N–.09 142.16E–.09 19 3.9b 13 1-61
IDC III 13 05 15 18.0–2.2 37.53N 142.72E 0 4.0,3.9 ¶17194737
JMA III 13 05 15 24.3–.30 37.54N 142.04E 12–4 4.4,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=55.4km s-min=24.3km az=67.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 13 05 15 27.3–.89 39.6N–.20 144.7E–.10 23 3.9b 17 10-87
ISCJB III 13 05 15 25.4–.70 39.6N–.10 144.6E–.20 23 3.7b ¶17194738
IDC III 13 05 15 28.4–.95 39.61N 144.61E 30–5 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=16.7km az=4.9.
IDC Error ellipse: s-maj=23.0km s-min=18.8km az=103.0.
ISC III 13 05 17 07.5–.71 37.47N–.08 144.3E–.10 35 4.0b 22 5-88
ISCJB III 13 05 17 05.5–.59 37.47N–.06 144.3E–.10 33 3.8b ¶16445759
IDC III 13 05 17 07.3–.86 37.47N 144.27E 33–5 4.1L,3.9
NEIC III 13 05 17 08.3–1.1 37.48N 144.27E 42–10 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=7.9km az=21.9.
IDC Error ellipse: s-maj=24.1km s-min=18.5km az=120.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=7.5km az=114.0.
ISC III 13 05 21 16.9–.72 36.81N–.08 142.03E–.06 19 3.8b 24 1-90
ISCJB III 13 05 21 15.0–.66 36.76N–.08 142.14E–.08 19 3.8b ¶602658552
IDC III 13 05 21 17.8–.93 36.72N 142.15E 27–5 3.8,3.8
JMA III 13 05 21 19.5–.30 37.00N 141.80E 10–3 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.7km az=10.2.
IDC Error ellipse: s-maj=18.7km s-min=16.9km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 05 24 03.5–.74 36.9N–.10 143.75E–.09 35 3.8b 19 4-89
ISCJB III 13 05 24 01.3–.70 36.8N–.10 143.72E–.08 33 3.8b ¶17194748
IDC III 13 05 24 03.7–.69 36.88N 143.77E 36–6 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=8.7km az=167.4.
IDC Error ellipse: s-maj=21.7km s-min=16.1km az=108.0.
ISC III 13 05 29 21.2–.82 39.4N–.10 144.7E–.10 23 3.8b 17 6-74
ISCJB III 13 05 29 19.0–.71 39.4N–.10 144.7E–.10 23 3.6b ¶17194750
IDC III 13 05 29 22.6–.88 39.35N 144.72E 34–5 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=12.0km az=139.2.
IDC Error ellipse: s-maj=20.2km s-min=18.8km az=132.0.
ISC III 13 05 31 42.5–.82 39.3N–.10 144.78E–.09 32–4 4.2b 45 3-145
NEIC III 13 05 31 41.7–.83 39.27N 144.80E 26–5 4.3b ¶16445760
IDC III 13 05 31 42.6–.74 39.31N 144.82E 30–3 4.1,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.3km az=134.0.
IDC Error ellipse: s-maj=17.5km s-min=13.9km az=160.0.
ISC III 13 05 33 25.7–.52 36.38N–.05 142.49E–.05 24–3 4.5b 120 1-151
NIED III 13 05 33 00 36.50N 142.60E 20 4.2W ¶16310900
ISCJB III 13 05 33 22.2–1.8 36.48N–.04 142.52E–.04 8–11 4.5b
JMA III 13 05 33 23.6–.20 36.49N 142.59E 24 4.4
IDC III 13 05 33 27.2–.55 36.43N 142.55E 34–4 4.3,4.3
NEIC III 13 05 33 27.6–.23 36.42N 142.49E 35 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ40.00000°,λ-113.00000°. NP2:ϕ_s246.00000°,δ54.00000°,λ-72.00000°. $M_0$2.46000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.9km az=157.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=10.9km az=152.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.7km az=165.0.
ISC III 13 05 35 12.5–4.7 37.5N–.80 142.5E–.30 21 3.8b 9 2-83
IDC III 13 05 35 08.3–6.5 37.35N 142.43E 0 4.1,4.0 ¶17194752
JMA III 13 05 35 11.0–.40 37.30N 142.32E 0 4.4,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=179.9km s-min=82.1km az=178.0.
JMA Error ellipse: s-maj=5.6km s-min=2.7km az=-1.0.
ISC III 13 05 39 54.5–.88 37.7N–.10 143.72E–.10 35–2 3.9b 28 5-88
ISCJB III 13 05 39 52.0–4.9 37.7N–.10 143.7E–.20 30–34 3.9b ¶17194753
IDC III 13 05 39 54.4–.84 37.72N 143.68E 34–4 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=16.0km az=26.2.
IDC Error ellipse: s-maj=19.3km s-min=14.3km az=159.0.
IDC III 13 05 44 32.4–9.2 37.11N 144.60E 0 4.2,4.0
¶17194754
IDC Error ellipse: s-maj=352.4km s-min=26.2km az=69.0.
ISC III 13 05 50 51.5–.79 37.40N–.05 142.38E–.06 14–4 4.8b 242 1-146
NIED III 13 05 50 00 37.40N 142.20E 5 4.6W ¶16310902
ISCJB III 13 05 50 49.1–1.4 37.43N–.03 142.37E–.05 6–9 4.7b
JMA III 13 05 50 52.0–.60 37.42N 142.17E 10–4 4.7
IDC III 13 05 50 54.2–4.3 37.39N 142.37E 31–31 4.6,4.5
NEIC III 13 05 50 54.4–1.5 37.44N 142.34E 31–10 4.8b,4.5
MOS III 13 05 50 54.6–1.0 37.77N 142.32E 32 5.1b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ6.00000°,λ179.00000°. NP2:ϕ_s27.00000°,δ90.00000°,λ84.00000°. $M_0$8.19000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=30.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=12.4km az=119.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.4km az=131.0.
MOS Error ellipse: s-maj=8.7km s-min=5.1km az=105.0.
ISC III 13 05 53 40.5–.79 37.7N–.10 144.0E–.10 35 4.1b 22 5-88
IDC III 13 05 53 35.1–.67 37.55N 144.20E 0 4.4,4.1 ¶16442352
ISCJB III 13 05 53 38.3–.60 37.59N–.10 143.96E–.09 33 4.1b,4.1
NEIC III 13 05 53 40.2–.66 37.65N 143.94E 35 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=16.2km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=9.4km az=168.2.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=10.5km az=151.0.
ISC III 13 06 06 19.8–1.1 37.7N–.20 144.1E–.10 35 3.7b 9 5-75
IDC III 13 06 06 14.2–.97 37.80N 144.44E 0 3.9,3.7 ¶17194755
ISCJB III 13 06 06 17.5–.88 37.7N–.10 144.3E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 06 07 36.5–1.5 37.59N 142.57E 0 3.9,3.8L
¶17194756
IDC Error ellipse: s-maj=54.6km s-min=26.7km az=122.0.
ISC III 13 06 09 22.2–.66 38.42N–.07 144.27E–.06 29 4.0b 48 3-118
IDC III 13 06 09 17.1–.70 38.27N 144.25E 0 4.0,3.9 ¶16461589
ISCJB III 13 06 09 20.3–.46 38.39N–.04 144.22E–.05 29 4.0b,3.9
NEIC III 13 06 09 22.3–.40 38.23N 144.22E 35 4.4b,3.9
JMA III 13 06 09 23.5–.70 38.56N 144.21E 39 4.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=18.3km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.0km az=138.1.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.0km az=120.0.
JMA Error ellipse: s-maj=5.6km s-min=3.5km az=-1.0.
ISC III 13 06 15 42.7–.96 37.43N–.09 143.06E–.08 24 3.6b 17 2-63
IDC III 13 06 15 38.8–.99 37.32N 143.58E 0 3.7,3.5 ¶17194758
ISCJB III 13 06 15 40.2–.79 37.37N–.07 143.14E–.07 24 3.6b,3.5
JMA III 13 06 16 02.6–.30 37.29N 141.80E 23–4 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=20.8km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.4km az=156.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 13 06 17 34.8–5.1 37.36N 142.99E 281–53 3.6,3.1
¶17194762
IDC Error ellipse: s-maj=33.5km s-min=16.2km az=108.0.
ISC III 13 06 23 16.5–.99 38.5N–.20 144.5E–.20 29 3.9b 8 25-87
IDC III 13 06 23 12.1–.84 38.49N 144.43E 0 4.1,3.9b ¶17194764
ISCJB III 13 06 23 14.4–.79 38.4N–.10 144.4E–.30 29 3.9b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 06 24 14.0–1.6 39.15N–.07 143.03E–.08 52–13 4.1b 70 2-150
JMA III 13 06 24 09.8–.20 39.13N 142.90E 0 4.4 ¶16445766
ISCJB III 13 06 24 11.8–.90 39.12N–.04 143.09E–.07 49–6 4.1b
NEIC III 13 06 24 13.7–.95 39.17N 143.04E 47–7 4.5b
IDC III 13 06 24 15.6–2.6 39.14N 142.96E 63–22 4.1,3.9
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.2km az=27.4.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.7km az=127.0.
IDC Error ellipse: s-maj=17.7km s-min=14.2km az=111.0.
ISC III 13 06 30 56.1–1.2 37.6N–.20 142.8E–.20 24 3.6b 8 4-69
IDC III 13 06 30 52.5–1.3 37.63N 142.81E 0 3.7,3.6 ¶17194766
ISCJB III 13 06 30 53.9–1.1 37.6N–.20 142.9E–.20 24 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 06 37 48.3–.40 37.63N–.04 143.56E–.04 27–2 4.9b,4.4s 455 2-145
IDC III 13 06 37 43.9–.52 37.54N 143.62E 0 4.7,4.6 ¶16310907
BJI III 13 06 37 47.4 37.83N 143.42E 26 5.1b,4.8b
NEIC III 13 06 37 48.4–1.4 37.62N 143.44E 22–9 5.0b,4.8b
MOS III 13 06 37 48.0–.91 37.89N 143.42E 23 5.2b,4.8b
GCMT III 13 06 37 48.4–.40 37.62N 143.50E 15–1 4.9W,4.8b
JMA III 13 06 37 48.1–.40 37.49N 143.35E 39 4.9,4.8b
ISCJB III 13 06 37 48.9–.18 37.63N–.03 143.39E–.03 36 4.9b,4.5s
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c13; s75,c111;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.38±.20 $M_{\theta\theta}$0.21±.11; $M_{\phi\phi}$2.17±.13; $M_{r\theta}$-0.61±.44; $M_{\theta\phi}$0.70±.07; $M_{\phi r}$-0.42±.33; Best double couple: NP1:ϕ_s28.00000°,δ53.00000°,λ-77.00000°. NP2:ϕ_s188.00000°,δ39.00000°,λ-106.00000°. Principal axes: T 2.4650,Plg7.0000°,Azm109.0000°; N 0.0630,Plg10.0000°,Azm200.0000° ; P -2.5300,Plg78.0000°,Azm345.0000° $M_0$2.49800×10^{16}
ISCJB Event type se.
ISC III 13 06 43 17.6–1.1 37.8N–.10 143.5E–.10 35 3.7b 10 4-69
IDC III 13 06 43 12.2–1.1 37.70N 143.67E 0 4.0,4.0 ¶17194770
ISCJB III 13 06 43 14.8–.89 37.61N–.09 143.6E–.10 33 3.7b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 06 45 31.2–.61 37.16N–.07 143.24E–.10 35 3.8b 31 3-89
IDC III 13 06 45 26.4–.66 37.21N 143.16E 0 4.0,3.9 ¶16452037
ISCJB III 13 06 45 29.7–.51 37.26N–.05 143.14E–.09 33 3.8b,3.9
NEIC III 13 06 45 31.4–.44 37.21N 143.15E 35 4.3b,3.9
JMA III 13 06 45 57.1–.20 39.31N 142.56E 5–4 4.5,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.3km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=7.6km az=15.4.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.1km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 06 54 14.5–.56 37.53N–.05 143.51E–.07 35 4.1b 56 2-150
IDC III 13 06 54 09.2–.73 37.53N 143.56E 0 4.2,4.1 ¶16461590
ISCJB III 13 06 54 12.5–.42 37.53N–.04 143.49E–.05 33 4.1b,4.1
JMA III 13 06 54 13.5–.30 37.52N 143.39E 55 4.2,4.1
NEIC III 13 06 54 14.5–.95 37.53N 143.65E 36–8 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=15.8km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.0km az=136.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.7km az=111.0.
ISC III 13 06 55 42.7–.87 37.6N–.20 144.4E–.10 35 3.7b 12 5-88
IDC III 13 06 55 37.7–.78 37.61N 144.61E 0 4.0,3.8 ¶17194774
ISCJB III 13 06 55 40.6–.67 37.5N–.10 144.4E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 06 58 43.6–.96 38.5N–.10 144.3E–.10 29 3.8b 14 5-87
IDC III 13 06 58 39.1–.88 38.53N 144.35E 0 4.0,3.8 ¶17194775
ISCJB III 13 06 58 41.7–.77 38.5N–.10 144.2E–.10 29 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 07 00 31.3–1.2 38.3N–.10 144.8E–.10 29 3.7b 10 6-62
IDC III 13 07 00 26.9–1.0 38.23N 144.89E 0 3.9,3.8 ¶16477404
ISCJB III 13 07 00 29.2–.95 38.2N–.10 144.8E–.10 29 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 07 00 47.4–.77 38.95N–.07 144.14E–.07 23 4.3b 52 2-80
IDC III 13 07 00 42.9–1.1 38.72N 144.21E 0 4.3,4.1 ¶602658309
NEIC III 13 07 00 45.4–3.1 38.81N 144.19E 13–18 4.2b,4.1
ISCJB III 13 07 00 46.2–.53 39.01N–.04 144.09E–.05 23 4.1b,4.1
JMA III 13 07 00 47.6–.30 39.12N 144.05E 21 4.5,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=18.0km az=140.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=6.1km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.9km az=139.6.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 13 07 01 28.8–.97 36.7N–.20 142.6E–.10 15 3.9b 8 4-77
IDC III 13 07 01 26.5–.86 36.64N 142.64E 0 4.1,4.1L ¶17194778
ISCJB III 13 07 01 26.9–.78 36.6N–.10 142.6E–.20 15 3.7b,4.1L
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 07 04 37.5–.37 38.35N–.03 144.10E–.03 31–2 5.6b,5.1s 1529 3-158
NIED III 13 07 04 00 38.30N 144.20E 5 5.3W,5.1s ¶16310908
ISCJB III 13 07 04 33.6–.67 38.36N–.02 144.06E–.01 12–4 5.5b,5.1s
JMA III 13 07 04 34.5–.30 38.34N 144.19E 48 5.4,5.1s
MOS III 13 07 04 35.7–.83 38.44N 144.04E 25 5.8b,5.1s
IDC III 13 07 04 38.1–.53 38.27N 144.15E 36–4 5.2,5.1
BJI III 13 07 04 38.4 38.58N 143.48E 20 5.4b,5.3s
NEIC III 13 07 04 38.3–.08 38.33N 144.02E 35 5.7b,5.3s
GCMT III 13 07 04 38.3–.10 38.37N 144.12E 12 5.3W,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ28.00000°,λ-81.00000°. NP2:ϕ_s176.00000°,δ63.00000°,λ-94.00000°. $M_0$1.02000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=168.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.4km s-min=3.6km az=104.9.
IDC Error ellipse: s-maj=9.4km s-min=7.9km az=97.0.
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.8km az=148.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c119; s119,c238; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.07±.01 $M_{\theta\theta}$0.07±.01; $M_{\phi\phi}$1.00±.01; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$0.09±.01; $M_{\phi r}$0.45±.04; Best double couple: NP1:ϕ_s187.00000°,δ57.00000° ,λ-89.00000°. NP2:ϕ_s5.00000°,δ33.00000°,λ-92.00000°. Principal axes: T 1.1030,Plg12.0000°,Azm276.0000°; N 0.0650,Plg1.0000°,Azm6.0000° ; P -1.1640,Plg78.0000°,Azm101.0000° $M_0$1.13400×10^{17}
ISC III 13 07 17 34.7–.72 37.0N–.10 143.48E–.09 35 4.1b 42 4-143
IDC III 13 07 17 28.5–.78 36.91N 143.50E 0 4.2,4.1 ¶16452040
ISCJB III 13 07 17 31.5–.58 36.96N–.07 143.64E–.09 33 4.1b,4.1
NEIC III 13 07 17 33.7–.48 36.95N 143.67E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=18.7km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=8.4km az=141.8.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.3km az=137.0.
ISC III 13 07 19 17.4–.94 37.7N–.20 143.2E–.20 24 3.8b 11 43-83
IDC III 13 07 19 13.6–.79 37.65N 143.21E 0 4.1,3.8 ¶16477409
ISCJB III 13 07 19 15.2–.74 37.6N–.10 143.3E–.20 24 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 07 21 23.4–1.4 38.56N 143.90E 0 3.9,3.7
¶17194783
IDC Error ellipse: s-maj=45.0km s-min=28.4km az=83.0.
ISC III 13 07 33 25.7–1.9 36.82N–.10 143.1E–.30 25 3.6b 7 5-61
IDC III 13 07 33 22.8–2.1 36.64N 143.22E 0 3.8,3.8 ¶17194785
ISC Event type ke.

IDC Error ellipse: s-maj=55.5km s-min=23.5km az=74.0.
ISC III 13 07 37 23.5–.47 36.92N–.06 143.21E–.06 30–2 4.4b 107 2-151
NIED III 13 07 37 00 36.90N 143.00E 5 4.2W **¶16310909**
ISCJB III 13 07 37 20.8–1.5 36.94N–.04 143.20E–.03 21–10 4.3b
NEIC III 13 07 37 21.8–2.5 36.95N 143.26E 17–15 4.6b
JMA III 13 07 37 22.8–.50 36.91N 143.02E 22 4.4
IDC III 13 07 37 24.8–.52 36.82N 143.24E 42–4 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ40.00000°,λ-132.00000°. NP2:ϕ_s243.00000°,δ61.00000°,λ-61.00000°. M_o2.64000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.4km az=164.2.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=123.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=11.6km az=165.0.
ISC III 13 07 40 38.7–.75 37.43N–.09 144.30E–.08 35 4.2b 27 5-88
IDC III 13 07 40 33.2–.71 37.25N 144.43E 0 4.3,4.0 **¶16452042**
ISCJB III 13 07 40 36.3–.55 37.40N–.08 144.25E–.07 33 4.2b,4.0
NEIC III 13 07 40 38.3–.55 37.39N 144.30E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=16.6km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.2km az=156.7.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.9km az=140.0.
ISC III 13 07 43 46.6–.51 37.22N–.06 144.21E–.06 35 4.1b 66 3-88
ISCJB III 13 07 43 45.0–.40 37.24N–.05 144.16E–.04 33 4.0b **¶16452043**
NEIC III 13 07 43 45.5–.97 37.22N 144.35E 28–6 4.4b
JMA III 13 07 43 46.3–.40 37.27N 144.02E 50 4.5
IDC III 13 07 43 46.5–.61 37.27N 144.32E 31–4 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=154.3.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.4km az=122.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=12.1km az=123.0.
ISC III 13 07 45 21.4–.69 39.85N–.09 143.55E–.09 6 4.2b 41 5-87
ISCJB III 13 07 45 19.5–.51 39.85N–.06 143.54E–.08 6 4.2b **¶602658231**
IDC III 13 07 45 20.4–.69 39.85N 143.60E 0 4.3,4.1
NEIC III 13 07 45 22.1–2.6 39.87N 143.55E 11–15 4.5b,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.9km az=37.7.
IDC Error ellipse: s-maj=18.7km s-min=15.0km az=124.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.8km az=113.0.
ISC III 13 07 55 19.5–.72 37.51N–.09 144.5E–.10 35 4.0b 26 5-82
ISCJB III 13 07 55 17.4–.62 37.50N–.08 144.5E–.10 33 4.8s,4.1b **¶16452045**
NEIC III 13 07 55 19.8–.46 37.56N 144.49E 35 4.3b,4.1b
IDC III 13 07 55 19.5–.72 37.52N 144.48E 32–6 4.7,4.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=9.5km az=37.9.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.5km az=124.0.
IDC Error ellipse: s-maj=20.1km s-min=14.9km az=120.0.
IDC III 13 07 56 11.4–5.9 36.63N 144.28E 0 4.0,3.9
¶16477417
IDC Error ellipse: s-maj=136.9km s-min=31.4km az=165.0.
ISC III 13 07 56 42.9–.39 39.66N–.03 143.32E–.03 18–1 5.6b,5.5s 1652 2-154
NIED III 13 07 56 00 39.60N 143.50E 14 5.7W,5.5s **¶602658221**
IDC III 13 07 56 39.9–.33 39.64N 143.40E 0 5.4,5.4
JMA III 13 07 56 39.8–.30 39.64N 143.45E 6 5.8,5.4
MOS III 13 07 56 41.4–.91 39.75N 143.27E 16 5.9b,5.7s
BJI III 13 07 56 41.9 39.70N 143.15E 20 6.0,6.0b
ISCJB III 13 07 56 41.1–.66 39.64N–.02 143.24E–.02 14–4 5.6b,5.5s
GCMT III 13 07 56 42.5–.10 39.60N 143.55E 22–0 5.7W,5.5s
NEIC III 13 07 56 42.5–.10 39.64N 143.18E 13 5.7W,5.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ16.00000°,λ62.00000°. NP2:ϕ_s33.00000°,δ76.00000°,λ98.00000°. M_o3.81000×10^{17}
IDC Error ellipse: s-maj=10.3km s-min=8.4km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.4km s-min=3.6km az=102.9.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=162.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c188; s130,c274; Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.20±.05 $M_{\theta\theta}$-0.09±.03; $M_{\phi\phi}$-2.11±.04; $M_{r\theta}$1.65±.07; $M_{\theta\phi}$-0.55±.02; $M_{\theta f}$3.01±.10; Best double couple: NP1:ϕ_s26.00000°,δ74.00000°,λ97.00000°. NP2:ϕ_s183.00000°,δ18.00000°,λ67.00000°. Principal axes: T 4.1170,Plg61.0000°,Azm306.0000°; N -0.0500,Plg7.0000°,Azm204.0000°; P -4.0630,Plg28.0000°,Azm111.0000° M_o4.09000×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=144.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}2.95 $M_{\theta\theta}$-0.74 $M_{\phi\phi}$-2.21 $M_{r\theta}$1.41 $M_{\theta\phi}$-1.14 $M_{\theta f}$2.53 Best double couple: NP1:ϕ_s208.00000°,δ22.00000°,λ89.00000°. NP2: ϕ_s29.00000°,δ68.00000°,λ90.00000°. Principal axes: T 4.1500,Plg67.0000°,Azm299.0000°; N -0.1200,Plg0.0000°,Azm209.0000°; P -4.0300,Plg23.0000°,Azm119.0000° M_o4.10000×10^{17}
IDC III 13 08 13 14.5–2.5 36.85N 142.88E 0 4.1,3.7
¶17194793
IDC Error ellipse: s-maj=184.9km s-min=21.1km az=114.0.
ISC III 13 08 14 45.0–.76 39.65N–.09 144.4E–.10 23 4.2b 34 3-87
IDC III 13 08 14 41.4–.74 39.66N 144.43E 0 4.2,4.0 **¶16452051**
ISCJB III 13 08 14 43.0–.56 39.65N–.06 144.3E–.10 23 4.0b,4.0
NEIC III 13 08 14 46.7–.42 39.68N 144.31E 35 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=16.0km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=25.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.1km az=111.0.
ISC III 13 08 23 16.2–1.2 37.3N–.10 143.8E–.20 35 3.7b 10 5-61
IDC III 13 08 23 11.1–1.1 37.24N 143.90E 0 3.8,3.7 **¶17194795**
ISCJB III 13 08 23 13.8–1.0 37.2N–.10 143.7E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 08 24 59.2–.76 37.34N–.10 144.0E–.10 35 3.9b 29 5-76
IDC III 13 08 24 54.1–.70 37.36N 144.04E 0 4.1,3.9 **¶16452052**
ISCJB III 13 08 24 57.0–.56 37.35N–.07 143.97E–.09 33 4.0b,3.9
NEIC III 13 08 24 59.1–.44 37.33N 144.01E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=15.5km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=7.8km az=140.9.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.4km az=137.0.
ISC III 13 08 26 20.6–.43 37.44N–.05 143.70E–.05 28–2 4.9b,4.7s 346 2-145
IDC III 13 08 26 15.8–.44 37.34N 143.85E 0 4.6,4.5 **¶16310912**
ISCJB III 13 08 26 16.2–1.1 37.44N–.03 143.70E–.03 6–6 4.8b,4.7s
JMA III 13 08 26 18.6–.40 37.38N 143.68E 49 4.8,4.7s
MOS III 13 08 26 18.6–.96 37.38N 143.75E 27 5.2b,4.7s
NEIC III 13 08 26 19.2–1.7 37.40N 143.72E 18–10 5.1b,4.7s
GCMT III 13 08 26 19.2–.40 37.55N 143.82E 13–1 4.8W,4.7s
BJI III 13 08 26 22.2 37.65N 143.19E 25 5.5b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.3km az=158.8.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=5.2km az=97.9.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=139.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s6,c7; s73,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.30±.23 $M_{\theta\theta}$0.47±.12; $M_{\phi\phi}$1.83±.15; $M_{r\theta}$0.57±.39; $M_{\theta\phi}$0.52±.08; $M_{\theta f}$0.06±.34; Best double couple: NP1:ϕ_s210.00000°,δ49.00000°,λ-76.00000°. NP2:ϕ_s8.00000°,δ43.00000°,λ-106.00000°. Principal axes: T 2.0190,Plg3.0000°,Azm290.0000°; N 0.3880,Plg11.0000°,Azm20.0000°; P -2.4120,Plg79.0000°,Azm183.0000° M_o2.21600×10^{16}
ISC III 13 08 35 20.4–.62 37.09N–.07 142.08E–.06 19 4.0b 37 1-161
ISCJB III 13 08 35 17.8–.49 37.06N–.04 142.20E–.06 19 3.9b **¶600543413**
IDC III 13 08 35 17.6–.76 37.08N 142.12E 0 3.9,3.9
JMA III 13 08 35 21.9–.30 37.16N 141.90E 32 4.1,3.9
NEIC III 13 08 35 22.1–.45 37.08N 142.19E 35 4.2b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.4km az=33.6.
IDC Error ellipse: s-maj=18.9km s-min=14.9km az=99.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.5km az=111.0.
ISC III 13 08 39 27.3–.89 38.1N–.10 143.76E–.10 35 3.7b 16 5-76
IDC III 13 08 39 22.3–.79 38.18N 143.97E 0 3.8,3.7 **¶17194796**
ISCJB III 13 08 39 25.2–.68 38.1N–.10 143.70E–.09 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 08 42 37.8–1.3 36.7N–.10 143.6E–.20 35 4.3b 14 12-84
IDC III 13 08 42 33.1–.99 36.57N 143.43E 0 4.4,4.2 **¶16477425**
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=19.9km az=87.0.
ISC III 13 08 43 23.3–.73 37.19N–.04 142.50E–.04 28–4 5.0b,4.6s 377 1-151
NIED III 13 08 43 00 37.20N 142.50E 20 4.8W,4.6s **¶17194797**
BJI III 13 08 43 17.4 37.14N 142.83E 20 5.4b,4.9s
JMA III 13 08 43 20.2–.30 37.16N 142.47E 6 5.0,4.9s
MOS III 13 08 43 21.0–1.1 37.22N 142.46E 21 5.1b,4.9s
ISCJB III 13 08 43 23.4–.62 37.14N–.03 142.42E–.03 38–5 4.9b,4.4s
NEIC III 13 08 43 25.0–.53 37.17N 142.40E 37–5 5.0b,4.4s
IDC III 13 08 43 25.8–2.3 37.12N 142.50E 51–21 4.8,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ25.00000°,λ-29.00000°. NP2:ϕ_s302.00000°,δ78.00000°,λ-112.00000°. M_o2.00000×10^{16}
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=5.0km az=99.6.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.9km az=152.5.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=133.0.
IDC Error ellipse: s-maj=13.3km s-min=10.6km az=114.0.
ISC III 13 08 47 05.5–.49 37.27N–.06 143.76E–.07 35 4.5b 112 5-150
IDC III 13 08 47 00.6–.54 37.33N 143.81E 0 4.6s,4.6 **¶16452056**
MOS III 13 08 47 01.9–.99 37.39N 143.76E 19 4.9b,4.6
ISCJB III 13 08 47 03.5–.35 37.24N–.04 143.75E–.06 33 4.6s,4.5b
NEIC III 13 08 47 05.7–.28 37.29N 143.76E 35 4.6b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.8km az=111.0.
MOS Error ellipse: s-maj=10.8km s-min=6.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.3km az=44.4.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=125.0.
ISC III 13 08 49 37.6–.38 37.94N–.04 143.94E–.05 27–2 4.9b,4.3s 797 3-153
IDC III 13 08 49 33.2–.41 37.81N 144.03E 0 4.7,4.7 **¶16449566**
JMA III 13 08 49 35.9–.60 37.96N 143.94E 52 4.9,4.7
GCMT III 13 08 49 35.8–.50 37.90N 143.92E 20–1 4.9W,4.7
NEIC III 13 08 49 35.8–1.6 37.86N 143.92E 13–10 5.0b,4.7
ISCJB III 13 08 49 37.1–.13 37.89N–.03 143.88E–.02 35 4.8b,4.3s
MOS III 13 08 49 39.4–1.2 38.31N 143.90E 35 5.1b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=11.4km s-min=9.8km az=116.0.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c9; s65,c98; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.70±.32 $M_{\theta\theta}$0.74±.18; $M_{\phi\phi}$1.96±.19; $M_{r\theta}$-0.64±.40; $M_{\theta\phi}$1.00±.08; $M_{\theta f}$0.48±.29; Best double couple: NP1:ϕ_s195.00000°,δ48.00000°,λ-110.00000°. NP2:ϕ_s43.00000°,δ46.00000°,λ-70.00000°. Principal axes: T 2.5240,Plg1.0000°,Azm299.0000°; N 0.3820,Plg14.0000°,Azm209.0000°; P -2.9040,Plg76.0000°,Azm34.0000° M_o2.71400×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.3km az=167.5.
MOS Error ellipse: s-maj=7.5km s-min=4.6km az=97.4.
ISC III 13 08 54 04.5–.54 37.42N–.05 143.66E–.06 26–2 4.7b 159 3-150
IDC III 13 08 53 59.8–.53 37.31N 143.80E 0 4.5,4.4 **¶16310916**
ISCJB III 13 08 54 00.9–1.5 37.38N–.04 143.67E–.05 15–10 4.5b,4.4
MOS III 13 08 54 02.9–.94 37.33N 143.70E 29 4.9b,4.4
JMA III 13 08 54 03.1–.50 37.34N 143.67E 63 4.8,4.4
NEIC III 13 08 54 03.9–1.5 37.39N 143.68E 22–10 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=12.2km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.1km az=142.1.
MOS Error ellipse: s-maj=9.6km s-min=6.9km az=105.8.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=130.0.
ISC III 13 08 55 49.9–.76 37.8N–.10 144.0E–.10 35 4.0b 11 5-88
IDC III 13 08 55 44.7–.76 37.79N 144.07E 0 4.3,4.0 **¶17194800**
ISCJB III 13 08 55 47.7–.65 37.8N–.10 144.0E–.10 33 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 08 58 18.1–.67 38.53N–.10 143.50E–.09 15 4.3b 45 3-150
IDC III 13 08 58 15.6–.71 38.50N 143.54E 0 4.2,4.0 **¶16449560**
ISCJB III 13 08 58 16.2–.50 38.50N–.06 143.46E–.07 15 4.2b,4.0
NEIC III 13 08 58 17.2–.35 38.52N 143.50E 10 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=14.3km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.0km az=140.5.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=139.0.
ISC III 13 09 02 40.7–1.1 37.2N–.20 142.8E–.20 25 3.6b 7 4-77
IDC III 13 09 02 36.8–1.1 37.23N 142.76E 0 3.8,3.6 **¶603145356**
ISCJB III 13 09 02 38.8–1.0 37.3N–.20 142.8E–.20 25 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 09 06 38.0–.58 37.45N–.08 143.73E–.09 35 4.5b 61 5-88
IDC III 13 09 06 32.6–.63 37.50N 143.82E 0 4.2,4.1 **¶16410969**
NEIC III 13 09 06 34.5–3.1 37.52N 143.78E 9–19 4.7b,4.1
ISCJB III 13 09 06 36.0–.38 37.49N–.06 143.69E–.06 33 4.4b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 09 06 48.6–.98 37.5N–.20 143.8E–.10 35 4.0b 8 5-76
IDC III 13 09 06 43.4–.89 37.48N 143.88E 0 4.2,3.9 **¶16477434**
ISCJB III 13 09 06 46.3–.82 37.5N–.20 143.8E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 09 07 08.2–1.2 37.7N–.20 143.9E–.10 10 4.4b 40 5-88
IDC III 13 09 07 06.7–2.0 37.64N 143.85E 0 4.2,4.0 **¶17194802**
ISC Event type ke.
IDC Error ellipse: s-maj=65.9km s-min=22.9km az=2.0.
ISC III 13 09 07 19.5–.96 37.5N–.20 143.5E–.10 10 4.3b 12 4-148
NEIC III 13 09 07 16.3–.94 38.48N 143.97E 38–8 4.6b **¶17194804**
IDC III 13 09 07 17.9–.98 37.50N 143.57E 0 4.3,4.1
ISCJB III 13 09 07 17.9–.82 37.4N–.10 143.6E–.10 10 4.1b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 09 08 33.8–.50 39.55N–.07 144.35E–.09 23 4.7b 79 6-150
IDC III 13 09 08 30.4–.66 39.63N 144.31E 0 4.4,4.2 **¶602658106**
ISCJB III 13 09 08 32.2–.29 39.61N–.05 144.34E–.06 23 4.6b,4.2
NEIC III 13 09 08 35.9–.78 39.62N 144.35E 37–7 4.8b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=18.7km s-min=15.8km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.0km az=141.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.5km az=130.0.
ISC III 13 09 08 44.0–1.1 39.6N–.10 144.6E–.20 23 4.4b 15 6-82
IDC III 13 09 08 40.6–1.1 39.66N 144.47E 0 4.5,4.3 **¶17194808**
ISCJB III 13 09 08 42.1–.88 39.62N–.10 144.5E–.20 23 4.3b,4.3
NEIC III 13 09 08 46.0–1.0 39.67N 144.38E 35 4.3b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=39.7km s-min=20.1km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=11.8km az=28.9.
NEIC Event type se. Error ellipse: s-maj=24.9km s-min=15.2km az=115.0.
ISC III 13 09 09 13.7–1.5 37.1N–.20 142.17E–.09 35 4.0b 9 1-77
IDC III 13 09 09 16.6–1.5 37.63N 143.98E 0 4.3,4.0 **¶603049705**

JMA III 13 09 09 28.2–.10 37.29N 141.36E 43–1 3.9,4.0
ISC Event type fe.
IDC Error ellipse: s-maj=87.4km s-min=25.0km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 13 09 11 14.9–.82 38.50N 144.11E 0 4.0,3.7
¶602658103
IDC Error ellipse: s-maj=23.8km s-min=20.2km az=107.0.
ISC III 13 09 12 17.7–.41 37.31N–.06 143.52E–.07 35 4.7b 107 4-150
IDC III 13 09 12 12.1–.56 37.29N 143.60E 0 4.5,4.3 **¶16477442**
NEIC III 13 09 12 15.7–1.3 37.28N 143.54E 21–9 4.8b,4.3
ISCJB III 13 09 12 15.5–.25 37.24N–.04 143.49E–.05 33 4.6b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 09 12 29.2–.58 37.29N–.09 143.4E–.10 35 4.5b 42 5-150
NEIC III 13 09 12 24.5–3.8 37.31N 143.48E 2–23 4.6b **¶603049707**
IDC III 13 09 12 24.2–.73 37.30N 143.46E 0 4.6,4.5L
ISCJB III 13 09 12 27.1–.41 37.28N–.07 143.4E–.10 33 4.5b,4.5L
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 13 09 12 58.9–.33 37.76N–.04 143.86E–.04 35 5.0b,4.7s 895 3-156
NIED III 13 09 12 00 37.70N 143.70E 8 5.1W,4.7s **¶17194812**
IDC III 13 09 12 53.7–.44 37.69N 143.90E 0 4.9,4.9
NEIC III 13 09 12 56.7–1.9 37.73N 143.81E 14–11 5.1b,4.9
GCMT III 13 09 12 56.7–.20 37.78N 143.92E 16–1 5.2W,4.9
MOS III 13 09 12 57.7–.94 38.11N 143.76E 22 5.2b,4.4s
JMA III 13 09 12 57.4–.40 37.68N 143.73E 54 5.1,4.4s
ISCJB III 13 09 12 57.8–.12 37.79N–.03 143.77E–.02 33 5.0b,4.8s
BJI III 13 09 13 00.8 37.95N 143.19E 25 5.3b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ61.00000°,λ-13.00000°. NP2:ϕ_s149.00000°,δ79.00000°,λ-150.00000°. $M_0$4.24000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=10.6km az=133.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=142.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c56; s101,c177; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.31±.19 $M_{\theta\theta}$-5.08±.15; $M_{\phi\phi}$6.39±.19; $M_{r\theta}$-0.66±.41; $M_{\theta\phi}$2.03±.13; $M_{\phi r}$2.07±.46; Best double couple: NP1:ϕ_s145.00000°,δ89.00000°,λ-161.00000°. NP2:ϕ_s55.00000°,δ71.00000°,λ-1.00000°. Principal axes: T 7.1810,Plg13.0000°,Azm279.0000°; N -1.5050,Plg71.0000°,Azm147.0000° ; P -5.6760,Plg14.0000°,Azm12.0000° $M_0$6.42800×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=99.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=1.7km az=173.2.
ISC III 13 09 17 17.1–1.2 37.4N–.10 144.0E–.10 35 4.2b 20 5-82
IDC III 13 09 17 14.2–.79 37.60N 143.78E 0 4.3,4.1 **¶16445767**
ISCJB III 13 09 17 16.8–.53 37.52N–.07 143.81E–.08 33 4.2b,4.1
NEIC III 13 09 17 19.1–.69 37.60N 143.75E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=16.8km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=7.1km az=137.2.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=8.7km az=128.0.
ISC III 13 09 20 38.7–.47 37.71N–.07 144.12E–.07 35 4.5b 77 4-147
IDC III 13 09 20 33.5–.65 37.68N 144.11E 0 4.2,4.1 **¶16424448**
ISCJB III 13 09 20 36.8–.28 37.67N–.05 144.06E–.05 33 4.5b,4.1
NEIC III 13 09 20 37.2–1.9 37.68N 144.10E 23–14 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=16.5km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.7km az=155.7.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=119.0.
ISC III 13 09 22 47.8–.51 39.71N–.08 144.46E–.08 23 4.4b 66 3-162
IDC III 13 09 22 44.1–.70 39.68N 144.46E 0 4.1,4.0 **¶16424449**
ISCJB III 13 09 22 45.9–.30 39.67N–.05 144.40E–.07 23 4.3b,4.0
NEIC III 13 09 22 46.5–2.2 39.70N 144.44E 15–13 4.8b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.2km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.0km az=41.4.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.9km az=119.0.
ISC III 13 09 23 56.2–.81 38.5N–.10 144.4E–.10 29 3.8b 18 5-87
IDC III 13 09 23 51.9–.78 38.60N 144.32E 0 4.0,3.8 **¶16477444**
ISCJB III 13 09 23 54.8–.59 38.65N–.08 144.3E–.10 29 3.9b,3.8
NEIC III 13 09 23 58.9–1.9 38.60N 144.26E 53–18 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=19.8km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=9.3km az=39.1.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=11.8km az=103.0.
ISC III 13 09 24 52.2–.61 37.8N–.10 144.5E–.20 35 4.3b 36 6-149
IDC III 13 09 24 47.2–.83 37.81N 144.65E 0 4.4s,4.4 **¶17194814**
ISCJB III 13 09 24 50.4–.39 37.75N–.09 144.5E–.10 33 4.4b,4.4
NEIC III 13 09 24 52.9–.43 37.93N 144.56E 35 4.6b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=20.2km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=8.1km az=36.8.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.0km az=129.0.
ISC III 13 09 37 59.9–.35 37.32N–.04 143.75E–.05 35 4.7b 283 2-153
IDC III 13 09 37 54.8–.46 37.24N 143.85E 0 4.6,4.5 **¶16331048**
JMA III 13 09 37 57.9–.30 37.32N 143.68E 51 4.6,4.5
ISCJB III 13 09 37 58.8–.21 37.26N–.03 143.62E–.03 33 4.7b,4.1s
NEIC III 13 09 38 00.4–.23 37.25N 143.73E 35 4.9b,4.1s
MOS III 13 09 38 01.0–1.2 37.81N 143.68E 30 5.0b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=11.5km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=159.5.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=148.0.
MOS Error ellipse: s-maj=8.7km s-min=4.9km az=101.8.
ISC III 13 09 40 18.7–.83 37.3N–.10 142.45E–.08 21 4.0b 20 1-89
IDC III 13 09 40 15.3–.99 37.28N 142.48E 0 4.1,3.9 **¶16445770**
ISCJB III 13 09 40 16.8–.65 37.28N–.10 142.52E–.08 21 4.0b,3.9
JMA III 13 09 40 16.4–.30 37.27N 142.46E 9 4.5,3.9
NEIC III 13 09 40 21.1–1.3 37.29N 142.46E 39–11 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=24.4km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=14.8km s-min=7.9km az=158.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.4km az=122.0.
ISC III 13 09 42 23.1–.43 37.14N–.06 143.76E–.06 35 4.7b 239 3-153
IDC III 13 09 42 17.7–.47 37.09N 143.86E 0 4.7,4.6 **¶17194818**
NEIC III 13 09 42 19.0–2.5 37.16N 143.73E 3–15 4.9b,4.6
JMA III 13 09 42 21.7–.30 37.13N 143.53E 20 4.7,4.6
MOS III 13 09 42 22.6–1.0 37.53N 143.61E 25 5.1b,4.6
ISCJB III 13 09 42 22.4–.24 37.21N–.04 143.63E–.04 33 4.7b,4.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 09 43 26.3–1.1 38.2N–.20 144.6E–.20 35 4.1b 7 11-75
IDC III 13 09 43 21.3–.99 38.11N 144.86E 0 4.4,4.3 **¶16331049**
ISCJB III 13 09 43 24.2–.90 38.1N–.10 144.5E–.20 33 4.3s,4.1b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 09 47 20.4–.53 39.00N–.07 144.32E–.08 19 4.4b 105 5-146
IDC III 13 09 47 16.8–.68 38.84N 144.33E 0 4.1,4.0 **¶16424451**
ISCJB III 13 09 47 18.7–.34 38.89N–.05 144.19E–.05 19 4.4b,4.0
NEIC III 13 09 47 19.9–2.7 38.88N 144.27E 16–17 4.8b,4.0
MOS III 13 09 47 21.9–1.2 39.36N 144.18E 25 4.8b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=14.9km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=151.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.4km az=137.0.
MOS Error ellipse: s-maj=11.9km s-min=7.0km az=87.5.

ISC III 13 09 47 40.6–2.3 38.9N–.30 144.1E–.60 23 4.1b 7 14-74
IDC III 13 09 47 36.8–2.2 38.84N 144.18E 0 4.1,4.0 **¶17194825**
ISCJB III 13 09 47 38.3–2.2 38.8N–.20 144.1E–.70 23 4.1b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 09 47 47.5–2.2 37.2N–.30 142.3E–.10 18 4.2b 14 1-83
IDC III 13 09 47 49.2–1.3 38.90N 143.52E 0 4.3,4.2 **¶17194828**
JMA III 13 09 47 50.2–.30 37.58N 142.07E 5–5 4.3,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=38.6km s-min=28.1km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 13 09 58 53.6–1.2 36.6N–.20 143.2E–.10 29 3.8b 7 4-61
IDC III 13 09 58 49.3–1.2 36.54N 143.23E 0 3.9,3.8b **¶17194829**
ISCJB III 13 09 58 51.4–1.0 36.5N–.20 143.2E–.10 29 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 10 03 51.2–.67 36.71N–.07 142.03E–.07 19 4.4b 31 1-146
IDC III 13 10 03 47.8–1.1 36.74N 142.16E 0 4.1,4.0 **¶600543571**
ISCJB III 13 10 03 48.6–.55 36.67N–.05 142.26E–.06 19 4.4b,4.0
JMA III 13 10 03 48.6–.30 36.76N 142.25E 11 4.4,4.0
NEIC III 13 10 03 53.4–1.6 36.59N 142.08E 35–16 4.8b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=35.5km s-min=16.3km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=6.1km az=140.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=10.3km az=50.0.
ISC III 13 10 04 01.0–.39 37.80N–.05 143.72E–.06 19 4.9b 336 4-156
IDC III 13 10 03 57.8–.44 37.67N 143.82E 0 4.6,4.5 **¶17194830**
NEIC III 13 10 04 00.6–1.8 37.70N 143.69E 14–11 5.0b,4.5
ISCJB III 13 10 04 00.1–.22 37.78N–.04 143.63E–.03 19 4.8b,4.5s
GCMT III 13 10 04 00.6–.60 37.75N 143.94E 12 4.8W,4.5s
MOS III 13 10 04 03.2–1.0 38.07N 143.60E 32 5.1b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=124.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.2km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.5km az=158.3.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s1,c3; s74,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.62±.08 $M_{\theta\theta}$0.34±.09; $M_{\phi\phi}$1.27±.08; $M_{r\theta}$-0.08±.27; $M_{\theta\phi}$0.89±.06; $M_{\phi r}$-0.87±.24; Best double couple: NP1:ϕ_s19.00000°,δ59.00000°,λ-104.00000°. NP2:ϕ_s224.00000°,δ34.00000°,λ-69.00000°. Principal axes: T 1.9830,Plg13.0000°,Azm119.0000°; N -0.1170,Plg12.0000°,Azm26.0000° ; P -1.8740,Plg73.0000°,Azm255.0000° $M_0$1.92900×10^{16}
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=94.5.
ISC III 13 10 06 43.3–1.1 37.16N–.09 142.3E–.10 9 4.0b 11 2-75
IDC III 13 10 06 40.4–1.7 37.07N 142.59E 0 4.1,4.0 **¶17194832**
ISCJB III 13 10 06 41.2–1.0 37.13N–.07 142.3E–.10 9 3.9b,4.0
JMA III 13 10 06 44.8–.30 37.26N 142.10E 2–3 4.5,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=39.7km s-min=23.3km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=9.5km az=6.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 10 08 10.2–1.2 37.1N–.10 144.8E–.20 35 4.1b 10 6-75
IDC III 13 10 08 04.5–1.0 37.02N 144.80E 0 4.1,3.9 **¶17194833**
ISCJB III 13 10 08 07.7–.91 37.0N–.10 144.7E–.20 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 10 10 30.9–2.1 39.49N 144.58E 0 3.9,3.8
¶17194834
IDC Error ellipse: s-maj=82.2km s-min=24.3km az=71.0.
ISC III 13 10 18 26.8–2.0 37.8N–.10 145.3E–.20 35 3.8b 7 6-62
IDC III 13 10 18 22.1–2.3 37.77N 145.35E 0 3.8,3.8 **¶17194836**
ISCJB III 13 10 18 24.7–1.7 37.8N–.10 145.2E–.30 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 10 23 02.2–.97 37.7N–.10 144.2E–.20 35 3.7b 7 6-73
IDC III 13 10 22 57.0–.98 37.76N 144.25E 0 3.9,3.8 **¶17194838**
ISCJB III 13 10 22 59.8–.82 37.79N–.09 144.0E–.20 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 10 29 22.2–.53 36.75N–.07 142.83E–.07 25 4.2b 52 2-160
IDC III 13 10 29 18.2–.71 36.67N 142.98E 0 4.0,3.9 **¶16424452**
NEIC III 13 10 29 19.0–3.9 36.62N 142.97E 8–24 4.8b,3.9
ISCJB III 13 10 29 20.1–.36 36.69N–.05 142.84E–.06 25 4.2b,3.9
JMA III 13 10 29 25.2–.30 36.99N 142.19E 5–3 4.5,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=16.0km az=124.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.4km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.9km az=150.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 10 36 55.2–.40 39.57N–.05 144.78E–.05 38 4.6b 602 3-153
IDC III 13 10 36 49.0–.49 39.37N 144.85E 0 4.5,4.4 **¶16339499**
JMA III 13 10 36 52.2–.40 39.57N 144.70E 45 4.4,4.4
MOS III 13 10 36 52.6–1.1 39.66N 144.73E 26 4.8b,4.4
ISCJB III 13 10 36 53.8–.16 39.62N–.03 144.64E–.02 38 4.5b,3.7s
NEIC III 13 10 36 55.2–.16 39.51N 144.71E 35 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=12.1km az=109.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.5km az=89.7.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.5km az=9.2.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.2km az=164.0.
ISC III 13 10 44 30.6–1.0 39.93N–.05 143.70E–.06 15–6 4.6b,4.2s 236 2-146
JMA III 13 10 44 23.3–.50 39.84N 144.12E 4 4.8,4.2s **¶16310925**
IDC III 13 10 44 27.8–.59 39.76N 143.60E 0 4.5,4.4
ISCJB III 13 10 44 28.5–1.4 40.05N–.03 143.47E–.04 1–8 4.6b,4.2s
MOS III 13 10 44 31.9–1.1 40.17N 143.43E 22 4.9b,4.2s
NEIC III 13 10 44 32.1–1.9 39.81N 143.45E 21–13 4.7b,4.2s
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=13.1km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.8km az=41.0.
MOS Error ellipse: s-maj=9.0km s-min=5.5km az=104.8.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.1km az=138.0.
ISC III 13 10 50 52.6–.49 39.83N–.05 143.69E–.05 6 4.6b 112 2-88
IDC III 13 10 50 51.0–.69 39.58N 143.66E 0 4.3,4.2 **¶602657741**
ISCJB III 13 10 50 50.9–.31 39.73N–.04 143.68E–.04 6 4.6b,4.2
MOS III 13 10 50 53.9–1.2 39.77N 143.73E 29 4.9b,4.2
JMA III 13 10 50 54.8–.50 40.05N 143.40E 0 4.1,4.2
NEIC III 13 10 50 56.8–.84 39.66N 143.60E 37–7 4.9b,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=18.4km s-min=16.8km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=156.2.
MOS Error ellipse: s-maj=11.5km s-min=6.7km az=91.1.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.7km az=127.0.
ISC III 13 10 54 41.4–.51 36.98N–.06 142.74E–.06 9 4.6b 54 2-83
IDC III 13 10 54 40.0–.82 37.00N 142.71E 0 4.3L,4.2 **¶16424456**
ISCJB III 13 10 54 39.7–.33 36.94N–.04 142.81E–.04 9 4.5b,4.2
JMA III 13 10 54 40.6–.50 37.06N 142.63E 0 4.7,4.2
NEIC III 13 10 54 46.4–.93 36.94N 142.70E 47–9 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=16.2km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.4km az=173.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.2km az=115.0.
ISC III 13 10 58 59.2–.37 37.06N–.05 143.22E–.05 35 4.9b,4.3s 506 4-154
IDC III 13 10 58 53.4–.44 36.94N 143.36E 0 4.7,4.6 **¶16339500**
BJI III 13 10 58 56.8 37.16N 143.16E 24 5.0b,4.8b
GCMT III 13 10 58 57.4–.50 37.14N 143.50E 12 4.9W,4.8b
NEIC III 13 10 58 57.4–2.4 36.98N 143.20E 18–14 5.0b,4.8b

MOS III 13 10 58 57.8–.86 37.32N 143.17E 25 5.0b,4.8b
ISCJB III 13 10 58 58.3–.17 37.15N–.04 143.17E–.03 33 4.8b,4.5s
ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c11; s68,c98;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.05±.10 $M_{\theta\theta}$0.52±.10; $M_{\phi\phi}$1.53±.09; $M_{r\theta}$1.23±.37; $M_{\theta\phi}$0.84±.07; $M_{\theta r}$-1.05±.41; Best double couple: NP1:ϕ_s1.00000°,δ57.00000°,λ-123.00000°. NP2:ϕ_s232.00000°,δ46.00000°,λ-50.00000°. Principal axes: T 2.0400,Plg6.0000°,Azm115.0000°; N 0.8800,Plg28.0000°,Azm21.0000° ; P -2.9200,Plg62.0000°,Azm216.0000° $M_0$2.48000×10^{16}
NEIC Event type se.
ISCJB Event type se.
ISC III 13 11 01 20.4–.71 39.81N–.05 144.39E–.04 23–4 5.0b,4.5s 848 2-157
IDC III 13 11 01 16.2–.43 39.71N 144.49E 0 4.8,4.7 **¶16339501**
NEIC III 13 11 01 18.9–1.6 39.74N 144.41E 12–9 5.1b,4.7
GCMT III 13 11 01 18.9–.60 39.89N 144.45E 20–1 4.9W,4.7
MOS III 13 11 01 19.5–.89 39.66N 144.34E 30 5.1b,4.7
ISCJB III 13 11 01 20.9–.13 39.84N–.03 144.35E–.02 36 5.0b,4.6s
BJI III 13 11 01 22.1 39.89N 143.99E 32 5.2b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.2km az=130.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.4km az=144.0.
GCMT Error ellipse: s-maj=5.6km s-min=6.7km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c15; s64,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.70±.29 $M_{\theta\theta}$0.50±.16; $M_{\phi\phi}$2.20±.18; $M_{r\theta}$-0.00±.43; $M_{\theta\phi}$0.28±.09; $M_{\phi r}$0.56±.29; Best double couple: NP1:ϕ_s187.00000°,δ51.00000° ,λ-92.00000°. NP2:ϕ_s11.00000°,δ39.00000°,λ-88.00000°. Principal axes: T 2.3070,Plg6.0000°,Azm279.0000°; N 0.4560,Plg2.0000°,Azm189.0000° ; P -2.7640,Plg83.0000°,Azm85.0000° $M_0$2.53500×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=5.6km az=95.8.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.3km az=162.2.
ISC III 13 11 05 07.0–.64 39.45N–.08 143.02E–.10 18 4.1b 39 3-88
IDC III 13 11 05 03.3–.69 39.39N 143.04E 0 4.0,3.8 **¶16424457**
ISCJB III 13 11 05 04.9–.39 39.43N–.05 143.03E–.07 18 4.1b,3.8
NEIC III 13 11 05 10.1–.83 39.42N 143.01E 46–8 4.7b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=16.0km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.3km az=40.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.7km az=118.0.
ISC III 13 11 08 30.5–.67 39.8N–.10 144.7E–.10 34 4.1b 29 3-149
IDC III 13 11 08 25.7–.84 39.81N 144.79E 0 4.2,4.0 **¶16424459**
ISCJB III 13 11 08 29.0–.47 39.75N–.07 144.60E–.08 34 4.1b,4.0
NEIC III 13 11 08 30.7–.42 39.84N 144.74E 35 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=19.9km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=8.7km az=157.2.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.5km az=149.0.
ISC III 13 11 12 01.0–.65 37.3N–.10 142.12E–.09 24 4.5b 66 5-151
IDC III 13 11 11 49.8–2.0 36.18N 142.60E 0 4.2,4.2b **¶16477470**
NEIC III 13 11 11 58.4–3.3 37.40N 142.15E 5–21 4.7b,4.2b
ISCJB III 13 11 11 59.4–.51 37.33N–.08 142.06E–.07 24 4.4b,4.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 13 11 12 24.5–2.7 37.58N 142.63E 0 4.3,3.9
¶17194845
IDC Error ellipse: s-maj=228.1km s-min=22.9km az=112.0.
IDC III 13 11 20 43.3–1.4 38.23N 144.63E 0 4.2,4.0
¶17194847
IDC Error ellipse: s-maj=48.9km s-min=28.6km az=71.0.
IDC III 13 11 22 42.2–.98 37.64N 144.31E 0 3.8,3.5
¶17194848
IDC Error ellipse: s-maj=33.4km s-min=22.5km az=99.0.
ISC III 13 11 29 22.1–.48 38.28N–.09 143.91E–.08 14 4.6b 76 5-144
IDC III 13 11 29 19.1–.71 38.20N 143.90E 0 4.9s,4.9 **¶16424461**
ISCJB III 13 11 29 20.4–.28 38.20N–.06 143.83E–.06 14 4.9s,4.5b
NEIC III 13 11 29 27.0–.99 38.24N 143.79E 52–9 4.7b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=17.3km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.8km az=152.1.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.0km az=125.0.
ISC III 13 11 35 48.8–.91 38.4N–.10 143.8E–.10 14 3.7b 13 5-75
IDC III 13 11 35 46.8–.80 38.41N 143.89E 0 3.9,3.7b **¶17194850**
ISCJB III 13 11 35 46.9–.73 38.4N–.10 143.7E–.10 14 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 11 37 31.3–.29 37.36N–.03 142.39E–.03 24–1 5.7b,5.6s 1914 1-160
NIED III 13 11 37 00 37.40N 142.40E 17 5.7W,5.6s **¶16310931**
BJI III 13 11 37 25.8 37.45N 142.65E 23 6.1,6.1s
JMA III 13 11 37 27.3–.20 37.40N 142.43E 2–2 6.1,6.1s
IDC III 13 11 37 27.2–.35 37.34N 142.49E 0 5.5b,5.5
GCMT III 13 11 37 30.4–.10 37.42N 142.34E 15–0 5.8W,5.5
ISCJB III 13 11 37 30.5–.07 37.33N–.02 142.40E–.01 26 5.7s,5.7b
NEIC III 13 11 37 30.4–.07 37.35N 142.39E 17 5.8,5.8W
MOS III 13 11 37 30.8–.89 37.34N 142.39E 30 5.9b,5.6s
NEIC III 13 11 37 31.0–.00 37.35N 142.42E 24 5.9b,5.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ50.00000°,λ-129.00000°. NP2:ϕ_s168.00000°,δ53.00000°,λ-53.00000°. $M_0$4.16000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=9.3km az=90.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c253; s133,c308;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.88±.05 $M_{\theta\theta}$1.40±.04; $M_{\phi\phi}$3.48±.04; $M_{r\theta}$4.55±.15; $M_{\theta\phi}$-1.85±.03; $M_{\phi r}$3.72±.14; Best double couple: NP1: ϕ_s196.00000°,δ69.00000°,λ-62.00000°. NP2:ϕ_s320.00000°,δ35.00000°,λ-140.00000°. Principal axes: T 4.9050,Plg19.0000°,Azm265.0000°; N 3.7820,Plg26.0000°,Azm5.0000° ; P -8.6860,Plg57.0000°,Azm144.0000° $M_0$6.79600×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=161.6.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=140.0. Recorded [3 JMA] in Fukushima, Ibaraki, Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s70 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.48 $M_{\theta\theta}$1.73 $M_{\phi\phi}$2.75 $M_{r\theta}$2.32 $M_{\theta\phi}$-2.35 $M_{\phi r}$1.73 Best double couple: NP1:ϕ_s297.00000°,δ52.00000°,λ-125.00000°. NP2:ϕ_s165.00000° ,δ50.00000°,λ-54.00000°. Principal axes: T 4.6500,Plg1.0000°,Azm51.0000° ; N 1.2900,Plg27.0000°,Azm320.0000°; P -5.9300,Plg63.0000°,Azm142.0000° $M_0$5.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm295.0000°; N Plg0.0000°,Azm0.0000°; P Plg70.0000° ,Azm115.0000°
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=109.9.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.98 $M_{\theta\theta}$1.66 $M_{\phi\phi}$2.32 $M_{r\theta}$2.87 $M_{\theta\phi}$-1.87 $M_{\phi r}$0.14 Best double couple: NP1:ϕ_s296.00000° ,δ62.00000°,λ-113.00000°. NP2:ϕ_s158.00000°,δ36.00000°,λ-53.00000°. Principal axes: T 4.3200,Plg13.0000°,Azm42.0000°; N 0.9700,Plg20.0000°,Azm307.0000° ; P -5.2800,Plg64.0000°,Azm163.0000° $M_0$4.90000×10^{17}
ISC III 13 11 45 02.0–.75 37.5N–.10 142.3E–.10 21 3.7b 15 3-89
IDC III 13 11 44 58.5–.92 37.45N 142.23E 0 4.0,3.8 **¶16445771**
ISCJB III 13 11 44 60.0–.64 37.49N–.09 142.3E–.10 21 3.9b,3.8
NEIC III 13 11 45 06.7–1.8 37.46N 142.09E 63–16 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.2km s-min=23.9km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=12.6km az=171.6.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=10.6km az=68.0.
ISC III 13 11 45 35.2–1.0 37.2N–.20 142.7E–.10 9 4.0b 9 12-77
IDC III 13 11 45 33.8–.91 37.21N 142.72E 0 4.1,4.0 **¶17194853**
ISCJB III 13 11 45 33.3–.85 37.2N–.10 142.7E–.20 9 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 11 47 56.8–.53 37.32N–.08 142.56E–.07 21 4.7b 71 4-151
IDC III 13 11 47 53.0–.65 37.29N 142.56E 0 4.2,4.1 **¶16424462**
ISCJB III 13 11 47 55.0–.31 37.31N–.05 142.45E–.06 21 4.5b,4.1
NEIC III 13 11 47 59.0–.85 37.35N 142.46E 36–8 4.9b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=15.5km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.5km az=145.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.8km az=124.0.
ISC III 13 11 50 22.8–.44 37.54N–.06 142.57E–.08 21 4.6b 76 4-144
IDC III 13 11 50 19.1–.63 37.51N 142.61E 0 4.1,4.0 **¶602657584**
ISCJB III 13 11 50 21.1–.26 37.51N–.04 142.52E–.05 21 4.5b,4.0
NEIC III 13 11 50 24.2–2.4 37.56N 142.58E 28–17 4.9b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=18.1km s-min=14.1km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=42.2.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=123.0.
ISC III 13 12 01 20.3–.49 40.71N–.06 143.41E–.07 16 4.2b 86 1-145
IDC III 13 12 01 16.8–.78 40.53N 143.45E 0 4.0,3.9 **¶16424464**
ISCJB III 13 12 01 18.4–.36 40.67N–.05 143.47E–.06 16 4.2b,3.9
MOS III 13 12 01 19.4–1.2 40.71N 143.44E 23 4.8b,3.9
NEIC III 13 12 01 23.0–.91 40.61N 143.42E 38–8 4.8b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=15.4km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.3km az=136.5.
MOS Error ellipse: s-maj=10.0km s-min=7.1km az=87.7.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.7km az=124.0.
ISC III 13 12 02 49.9–.77 37.34N–.05 142.61E–.05 17–4 4.5b 183 1-151
IDC III 13 12 02 47.5–.49 37.37N 142.49E 0 4.4,4.4 **¶602657569**
JMA III 13 12 02 48.7–.30 37.37N 142.54E 20 4.7,4.4
MOS III 13 12 02 49.5–1.1 37.45N 142.53E 22 4.9b,4.4
ISCJB III 13 12 02 49.3–.26 37.35N–.04 142.54E–.03 22 4.5b,4.4
NEIC III 13 12 02 50.7–2.1 37.36N 142.50E 18–13 4.8b,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=13.4km s-min=11.3km az=124.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=5.5km az=94.6.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.2km az=159.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.8km az=133.0.
ISC III 13 12 08 23.3–.92 38.5N–.10 144.8E–.10 43 3.6b 12 6-87
IDC III 13 12 08 17.4–.91 38.53N 144.98E 0 3.9,3.8 **¶17194855**
ISCJB III 13 12 08 21.5–.77 38.47N–.09 144.7E–.10 43 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 12 10 58.7–.49 38.70N–.05 144.29E–.06 29 4.2b 80 3-147
IDC III 13 12 10 53.9–.60 38.54N 144.42E 0 4.2,4.0 **¶16424465**
NEIC III 13 12 10 55.5–2.5 38.61N 144.36E 9–15 4.7b,4.0
JMA III 13 12 10 56.8–.50 38.74N 144.30E 49 4.6,4.0
ISCJB III 13 12 10 56.5–.31 38.64N–.04 144.22E–.04 29 4.2b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 12 11 53.4–.62 37.33N–.07 142.48E–.08 21 4.0b 34 1-138
JMA III 13 12 11 50.4–.40 37.47N 142.42E 0 4.3 **¶16424466**
IDC III 13 12 11 50.5–.88 37.34N 142.44E 0 4.0,3.9
ISCJB III 13 12 11 51.6–.46 37.32N–.05 142.56E–.07 21 4.1b,3.9
NEIC III 13 12 11 55.9–1.1 37.36N 142.57E 39–9 4.6b,3.9
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=29.7km s-min=16.3km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=7.1km az=138.4.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.4km az=94.0.
ISC III 13 12 14 10.9–.52 38.21N–.07 144.28E–.08 29 4.2b 56 4-147
IDC III 13 12 14 06.6–.69 38.27N 144.29E 0 4.1,3.9 **¶16424467**
ISCJB III 13 12 14 09.2–.33 38.25N–.05 144.19E–.06 29 4.2b,3.9
NEIC III 13 12 14 12.8–1.0 38.30N 144.34E 42–10 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=16.5km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.9km az=136.4.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.9km az=104.0.
ISC III 13 12 14 37.3–2.0 37.6N–.20 143.8E–.20 35 4.0b 6 5-62
IDC III 13 12 14 31.7–2.2 37.60N 143.89E 0 4.1,4.0b **¶17194858**
ISCJB III 13 12 14 34.9–1.7 37.5N–.20 143.8E–.20 33 4.0b,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 12 18 17.9–3.7 38.01N 144.25E 0 4.0,4.0s
¶17194859
IDC Error ellipse: s-maj=86.7km s-min=31.8km az=161.0.
ISC III 13 12 24 16.8–.56 38.80N–.06 144.79E–.06 19 4.4b 80 3-90
IDC III 13 12 24 12.6–.60 38.53N 144.84E 0 4.2,4.1 **¶16314245**
ISCJB III 13 12 24 15.5–.33 38.86N–.03 144.71E–.03 19 4.4b,4.1
NEIC III 13 12 24 16.7–2.6 38.70N 144.81E 20–16 4.7b,4.1
JMA III 13 12 24 17.0–.50 38.93N 144.68E 30 4.4,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=13.9km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.9km az=172.6.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.0km az=134.0.
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
IDC III 13 12 25 03.1–6.7 37.44N 142.22E 0 4.2,3.9
¶17194861
IDC Error ellipse: s-maj=448.3km s-min=40.0km az=116.0.
ISC III 13 12 25 36.3–.52 39.73N–.09 144.38E–.09 23 4.7b 59 6-146
IDC III 13 12 25 32.4–.77 39.69N 144.44E 0 4.2,4.0 **¶16424468**
ISCJB III 13 12 25 34.4–.30 39.70N–.05 144.31E–.06 23 4.5b,4.0
NEIC III 13 12 25 36.1–2.0 39.72N 144.38E 21–14 4.8b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=17.1km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=142.7.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.5km az=123.0.
ISC III 13 12 27 07.9–.45 36.24N–.04 142.32E–.05 15 4.7b 136 1-146
NIED III 13 12 27 00 36.40N 142.40E 5 4.5W **¶602657494**
IDC III 13 12 27 05.7–.63 36.33N 142.32E 0 4.4,4.3
ISCJB III 13 12 27 06.2–.33 36.29N–.03 142.35E–.04 15 4.5b,4.3
JMA III 13 12 27 06.3–.50 36.42N 142.45E 25 4.5,4.3
MOS III 13 12 27 07.6–.95 36.28N 142.29E 25 5.0b,4.3
NEIC III 13 12 27 10.2–1.9 36.28N 142.23E 29–13 4.9b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ34.00000°,λ-122.00000°. NP2:ϕ_s165.00000°,δ62.00000°,λ-71.00000°. $M_0$5.99000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=13.4km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.3km az=38.4.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
MOS Error ellipse: s-maj=10.3km s-min=6.2km az=115.3.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.2km az=124.0.
ISC III 13 12 33 15.0–.92 36.07N–.07 142.2E–.10 23 3.8b 26 3-78
IDC III 13 12 33 11.6–.83 36.31N 142.17E 0 4.4L,3.9 **¶16445772**
ISCJB III 13 12 33 13.2–.64 36.16N–.05 142.17E–.08 23 3.7b,3.9
NEIC III 13 12 33 16.6–.64 36.24N 142.16E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=18.9km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=7.4km az=155.2.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=10.2km az=54.0.
ISC III 13 12 33 34.1–.65 38.40N–.08 143.36E–.08 15 4.4b 93 4-117
IDC III 13 12 33 31.5–.64 38.28N 143.35E 0 4.3,4.2 **¶16310937**
ISCJB III 13 12 33 32.4–.48 38.41N–.06 143.40E–.07 15 4.3b,4.2
NEIC III 13 12 33 33.1–3.2 38.28N 143.35E 10–19 4.5b,4.2
MOS III 13 12 33 33.2–1.1 38.35N 143.52E 26 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=14.5km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.5km az=43.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.5km az=133.0.
MOS Error ellipse: s-maj=11.0km s-min=6.0km az=101.3.
ISC III 13 12 36 48.7–.52 37.23N–.07 142.63E–.07 9 4.6b 150 1-146
IDC III 13 12 36 46.5–.51 37.06N 142.62E 0 4.4,4.3 **¶16314246**
ISCJB III 13 12 36 48.3–.31 37.36N–.05 142.53E–.04 9 4.5b,4.3

JMA III 13 12 36 50.3–.30 37.06N 142.57E 38 4.6,4.3
NEIC III 13 12 36 51.0–1.8 37.21N 142.58E 21–13 4.7b,4.3
MOS III 13 12 36 51.0–.83 37.52N 142.51E 24 4.8b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.3km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.0km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=142.0.
MOS Error ellipse: s-maj=9.7km s-min=6.4km az=91.6.
ISC III 13 12 39 43.1–.48 39.33N–.07 144.87E–.07 38 4.5b 156 3-145
IDC III 13 12 39 37.5–.66 39.33N 144.84E 0 4.3,4.3 **¶16424469**
MOS III 13 12 39 41.1–1.0 39.32N 144.72E 33 4.9b,4.3
ISCJB III 13 12 39 41.7–.27 39.27N–.05 144.67E–.04 38 4.5b,4.3
NEIC III 13 12 39 43.3–.20 39.35N 144.69E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=159.0.
MOS Error ellipse: s-maj=9.3km s-min=6.9km az=88.9.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.5km az=172.9.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=165.0.
ISC III 13 12 42 00.2–.52 37.09N–.07 143.81E–.08 35 4.6b 67 5-153
IDC III 13 12 41 55.0–.65 37.11N 143.93E 0 4.3,4.1 **¶16477497**
ISCJB III 13 12 41 58.2–.32 37.12N–.05 143.81E–.05 33 4.5b,4.1
NEIC III 13 12 41 59.4–1.6 37.11N 143.89E 28–11 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=15.0km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=147.3.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=3.8km az=126.0.
ISC III 13 12 42 33.6–.45 37.52N–.07 144.08E–.05 35 4.8b,4.7s 263 5-153
IDC III 13 12 42 27.6–.49 37.43N 144.15E 0 4.5,4.5 **¶17194867**
BJI III 13 12 42 31.4 37.73N 144.06E 27 5.1b,4.9s
ISCJB III 13 12 42 31.3–.21 37.40N–.04 144.10E–.03 33 4.7b,4.7s
MOS III 13 12 42 31.2–.86 37.41N 144.10E 35 5.1b,4.7s
NEIC III 13 12 42 34.3–.60 37.48N 144.06E 42–5 4.9b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=13.1km s-min=11.7km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.4km az=162.7.
MOS Error ellipse: s-maj=8.9km s-min=6.3km az=95.8.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.8km az=144.0.
ISC III 13 12 42 55.1–.63 37.79N–.06 143.97E–.07 35 4.6b 57 3-153
IDC III 13 12 42 49.0–.71 37.67N 144.22E 0 4.7,4.6 **¶17194869**
ISCJB III 13 12 42 53.7–.47 37.83N–.05 143.88E–.05 33 4.6b,4.6
JMA III 13 12 42 55.5–.50 37.89N 143.80E 46 4.9,4.6
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=14.2km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.5km az=172.9.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 13 12 51 07.5–.92 39.4N–.20 144.8E–.10 23 3.6b 13 11-87
IDC III 13 12 51 03.9–.79 39.33N 144.84E 0 3.8,3.6 **¶16477501**
ISCJB III 13 12 51 05.4–.73 39.3N–.10 144.7E–.20 23 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 12 51 51.0–.68 37.59N–.08 144.0E–.10 35 4.3b 35 5-147
IDC III 13 12 51 46.6–1.1 37.57N 143.96E 0 4.0,4.0 **¶17194871**
ISCJB III 13 12 51 48.7–.44 37.58N–.05 144.00E–.07 33 4.1b,4.0
NEIC III 13 12 51 49.8–2.9 37.61N 144.05E 25–21 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=17.8km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=7.4km az=29.7.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.8km az=93.0.
ISC III 13 12 55 51.0–.59 37.76N–.08 143.62E–.09 19 4.6b 55 6-148
IDC III 13 12 55 48.1–.78 37.77N 143.63E 0 4.0,3.9 **¶16477506**
ISCJB III 13 12 55 49.4–.35 37.76N–.06 143.58E–.06 19 4.5b,3.9
NEIC III 13 12 55 54.2–.94 37.79N 143.55E 41–9 4.8b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=17.6km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.6km az=143.8.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=140.0.
ISC III 13 12 56 21.7–.53 37.26N–.08 143.73E–.08 35 4.6b 80 4-153
IDC III 13 12 56 16.7–.59 37.30N 143.74E 0 4.4,4.3 **¶17194876**
NEIC III 13 12 56 17.9–2.7 37.36N 143.70E 5–16 4.7b,4.3
ISCJB III 13 12 56 20.0–.41 37.27N–.07 143.70E–.06 33 4.5b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 13 01 05.5–1.0 36.95N–.09 143.8E–.10 35 4.4b 14 5-89
IDC III 13 13 01 00.8–1.6 37.15N 143.84E 0 4.4,4.3 **¶16407500**
NEIC III 13 13 01 06.2–1.1 37.07N 143.77E 35 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=43.6km s-min=31.9km az=126.0.
NEIC Event type se. Error ellipse: s-maj=27.8km s-min=21.9km az=107.0.
ISC III 13 13 07 14.1–1.2 37.1N–.10 144.1E–.10 35 3.6b 10 12-61
IDC III 13 13 07 08.8–1.1 37.10N 144.24E 0 3.9,3.8 **¶17194879**
ISCJB III 13 13 07 11.8–.93 37.1N–.10 144.1E–.20 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 13 08 29.9–.77 35.9N–.10 144.35E–.10 35 3.9b 21 5-89
IDC III 13 13 08 24.7–.78 35.96N 144.47E 0 4.0,3.9 **¶16461595**
ISCJB III 13 13 08 27.8–.60 35.92N–.08 144.31E–.09 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 13 16 31.4–.51 34.32N–.03 141.74E–.04 25–3 5.5s,5.0b 764 1-154
JMA III 13 13 16 27.8–.40 34.29N 141.97E 29–3 4.7,5.0b **¶16310943**
BJI III 13 13 16 27.8 34.39N 141.60E 11 5.8s,5.7
IDC III 13 13 16 27.7–.43 34.33N 141.71E 0 5.4,5.3s
MOS III 13 13 16 28.7–1.3 34.33N 141.65E 17 5.5s,5.1b
ISCJB III 13 13 16 30.9–.80 34.30N–.03 141.62E–.02 29–5 5.5s,4.9b
GCMT III 13 13 16 33.5–.10 34.33N 141.97E 15–0 5.4W,4.9b
NEIC III 13 13 16 33.5–.67 34.33N 141.61E 35–6 5.1b,4.9b
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=109.0.
MOS Error ellipse: s-maj=7.1km s-min=4.6km az=108.3.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c133; s127,c246; Duration: 1σ3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.36±.03 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$-1.31±.02; $M_{r\theta}$-0.02±.06; $M_{\theta\phi}$0.15±.01; $M_{\phi r}$1.07±.06; Best double couple: NP1:ϕ_s357.00000°,δ64.00000° ,λ93.00000°. NP2:ϕ_s170.00000°,δ26.00000°,λ84.00000°. Principal axes: T 1.7360,Plg71.0000°,Azm273.0000°; N -0.0380,Plg3.0000°,Azm175.0000° ; P -1.6990,Plg19.0000°,Azm85.0000° $M_0$1.71800×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=134.0.
ISC III 13 13 29 56.0–.77 39.6N–.10 144.60E–.10 23 3.7b 19 6-89
IDC III 13 13 29 52.1–.76 39.61N 144.88E 0 4.0,3.8 **¶17194884**
ISCJB III 13 13 29 54.1–.65 39.7N–.10 144.6E–.10 23 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 13 35 19.5–2.6 37.3N–.30 143.9E–.40 35 3.9b 7 5-88
IDC III 13 13 35 14.5–.68 37.35N 143.94E 0 4.1,3.9 **¶16407503**
NEIC III 13 13 35 20.7–2.2 37.33N 144.27E 40–20 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=33.2km s-min=16.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=23.8km s-min=11.9km az=110.0.
ISC III 13 13 36 01.0–.78 37.92N–.09 144.0E–.10 35 3.9b 16 9-76
IDC III 13 13 35 56.5–.77 37.95N 143.99E 0 3.9,3.8 **¶16407506**
ISCJB III 13 13 35 59.0–.60 37.89N–.08 143.9E–.10 33 4.0b,3.8
NEIC III 13 13 36 01.2–.56 37.93N 143.98E 35 4.7b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=17.7km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=11.8km az=22.5.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=10.2km az=99.0.
ISC III 13 13 37 30.3–.68 39.6N–.10 144.5E–.10 23 4.2b 28 3-87
IDC III 13 13 37 26.4–.60 39.56N 144.44E 0 4.3,4.1 **¶16477515**
ISCJB III 13 13 37 28.1–.48 39.58N–.07 144.4E–.10 23 4.1b,4.1
NEIC III 13 13 37 31.7–.48 39.61N 144.34E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=15.1km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=9.7km az=14.4.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=9.3km az=112.0.
ISC III 13 13 37 45.3–1.1 37.55N–.06 143.61E–.08 35 3.8b 37 2-76
IDC III 13 13 37 40.5–1.3 37.47N 143.70E 0 4.3,4.3 **¶17194885**
JMA III 13 13 37 44.3–.50 37.62N 143.54E 42 4.5,4.3
ISCJB III 13 13 37 44.2–.79 37.60N–.05 143.56E–.07 33 4.0b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 13 49 25.4–1.1 37.7N–.10 142.3E–.10 14 3.9b 24 1-82
IDC III 13 13 49 22.7–1.3 37.87N 142.46E 0 3.9,3.9b **¶16407509**
ISCJB III 13 13 49 23.5–.71 37.79N–.08 142.35E–.08 14 3.9b,3.9b
JMA III 13 13 49 28.3–.20 37.74N 141.98E 11–3 4.1,3.9b
NEIC III 13 13 49 29.3–3.5 37.83N 142.28E 42–26 4.3b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=40.6km s-min=19.3km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.7km az=146.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=34.4km s-min=9.7km az=74.0.
ISC III 13 13 50 20.0–.78 37.6N–.10 144.2E–.10 35 4.0b 29 5-88
IDC III 13 13 50 14.7–.69 37.50N 144.23E 0 4.1,3.9 **¶16407512**
ISCJB III 13 13 50 18.0–.54 37.52N–.08 144.10E–.09 33 3.9b,3.8s
NEIC III 13 13 50 20.1–.56 37.57N 144.11E 35 4.2b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=17.0km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.9km az=145.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.9km az=125.0.
ISC III 13 13 51 28.4–.72 39.1N–.10 144.72E–.09 19 4.0b 34 3-118
NEIC III 13 13 51 25.8–4.0 39.12N 144.81E 1–24 4.3b **¶16407513**
IDC III 13 13 51 25.6–.71 39.07N 144.84E 0 4.1,4.0
ISCJB III 13 13 51 26.7–.55 39.09N–.07 144.74E–.09 19 3.9b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 14 03 02.8–1.2 37.2N–.20 143.5E–.10 35 3.9b 8 4-61
IDC III 13 14 02 57.3–1.2 37.22N 143.69E 0 4.1,3.9 **¶16407516**
ISCJB III 13 14 03 00.6–1.0 37.1N–.10 143.4E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 14 10 40.0–.63 37.72N–.07 143.52E–.08 35 3.9b 30 4-127
IDC III 13 14 10 35.4–.71 37.78N 143.54E 0 4.1,4.0 **¶16407519**
ISCJB III 13 14 10 38.0–.47 37.71N–.05 143.48E–.07 33 4.0b,4.0
NEIC III 13 14 10 40.3–.37 37.78N 143.53E 35 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.5km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.2km az=39.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.7km az=107.0.
ISC III 13 14 13 08.3–.00 37.7N–.20 144.0E–.20 35 3.7b 7 6-73
IDC III 13 14 13 03.0–1.0 37.71N 144.13E 0 4.1L,4.0 **¶602443462**
ISCJB III 13 14 13 06.0–.90 37.6N–.10 144.0E–.20 33 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 14 14 26.2–2.9 37.55N–.05 142.04E–.06 5–18 4.5b 157 1-146
NIED III 13 14 14 00 37.50N 142.00E 11 4.2W **¶16310947**
IDC III 13 14 14 25.7–.51 37.56N 142.04E 0 4.4,4.3
ISCJB III 13 14 14 26.2–.26 37.64N–.04 142.04E–.03 10 4.4b,4.3
MOS III 13 14 14 27.5–.99 37.70N 141.99E 19 4.7b,4.3
NEIC III 13 14 14 27.6–2.1 37.61N 142.01E 10–13 4.7b,4.3
JMA III 13 14 14 27.7–.20 37.53N 142.04E 17–3 4.5,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ37.00000°,λ-86.00000°. NP2:ϕ_s140.00000°,δ53.00000°,λ-93.00000°. $M_0$2.34000×10^{15}
IDC Error ellipse: s-maj=14.2km s-min=12.3km az=126.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.3km az=152.4.
MOS Error ellipse: s-maj=9.6km s-min=6.2km az=95.2.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 14 28 04.5–.79 38.81N–.10 144.6E–.10 19 4.2b 23 11-80
IDC III 13 14 28 02.3–.71 38.89N 144.65E 0 4.1,4.0 **¶16407521**
ISCJB III 13 14 28 02.9–.49 38.79N–.06 144.58E–.09 19 4.0b,4.0
NEIC III 13 14 28 07.4–.48 38.87N 144.58E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=15.5km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=8.8km az=18.8.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.9km az=116.0.
ISC III 13 14 38 13.4–.96 36.5N–.10 143.5E–.10 35 3.7b 14 4-89
IDC III 13 14 38 08.2–1.2 36.52N 143.67E 0 3.9,3.8 **¶17194892**
ISCJB III 13 14 38 11.3–.83 36.46N–.08 143.5E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 14 46 41.6–.58 37.93N–.08 143.10E–.10 18 3.9b 32 4-145
ISCJB III 13 14 46 39.7–.45 37.88N–.05 143.04E–.08 18 3.9b **¶16407523**
NEIC III 13 14 46 39.7–2.8 37.98N 143.09E 4–18 4.3b
IDC III 13 14 46 39.1–.77 37.96N 143.07E 0 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.6km az=29.4.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.6km az=125.0.
IDC Error ellipse: s-maj=20.9km s-min=15.4km az=145.0.
ISC III 13 14 47 44.3–.62 37.44N–.10 142.5E–.10 21 4.1b 45 5-146
IDC III 13 14 47 41.2–.68 37.48N 142.48E 0 4.2,4.1 **¶603049722**
ISCJB III 13 14 47 42.2–.48 37.40N–.07 142.5E–.10 21 4.1b,4.1
NEIC III 13 14 47 46.2–.41 37.44N 142.44E 35 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=17.0km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=9.7km az=21.5.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.7km az=111.0.
ISC III 13 14 47 50.2–.61 37.34N–.08 142.2E–.10 24 4.2b 36 3-77
IDC III 13 14 47 46.6–.70 37.35N 142.26E 0 4.3,4.2 **¶17194895**
ISCJB III 13 14 47 48.0–.48 37.31N–.05 142.2E–.10 24 4.2b,4.2
NEIC III 13 14 47 51.6–.46 37.33N 142.15E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=14.8km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=7.6km az=5.1.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.1km az=98.0.
ISC III 13 14 48 02.0–.37 37.81N–.02 142.65E–.02 16–2 5.3b,5.2s 1243 2-154
IDC III 13 14 47 57.6–.44 37.61N 142.99E 0 5.1,5.1 **¶17194897**
BJI III 13 14 48 00.4 37.77N 142.50E 15 5.7b,5.5s
JMA III 13 14 48 00.6–.50 37.59N 142.88E 11 5.7,5.5s
NIED III 13 14 48 00 37.60N 142.90E 8 5.4W,5.5s
MOS III 13 14 48 01.4–.95 38.01N 142.82E 23 5.6b,5.4s
GCMT III 13 14 48 01.4–.10 37.78N 142.99E 17–0 5.4W,5.4s
NEIC III 13 14 48 01.4–2.1 37.77N 142.78E 18–13 5.4b,5.1s
ISCJB III 13 14 48 01.7–.09 37.90N–.02 142.50E–.02 16 5.3b,5.2s
ISC Event type se.
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ31.00000°,λ-56.00000°. NP2:ϕ_s343.00000°,δ65.00000°,λ-108.00000°. $M_0$1.29000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c135; s120,c248;Duration: 1σ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.29±.03 $M_{\theta\theta}$-0.08±.02; $M_{\phi\phi}$1.38±.02; $M_{r\theta}$0.40±.05; $M_{\theta\phi}$0.07±.01; $M_{\phi r}$-1.12±.05; Best double couple: NP1:ϕ_s348.00000°,δ66.00000°,λ-103.00000°. NP2:ϕ_s197.00000° ,δ27.00000°,λ-64.00000°. Principal axes: T 1.7900,Plg20.0000°,Azm88.0000° ; N 0.0080,Plg12.0000°,Azm353.0000°; P -1.7910,Plg66.0000°,Azm235.0000° $M_0$1.79000×10^{17}
NEIC Event type se.
ISCJB Event type fe.
ISC III 13 14 52 13.6–.72 36.49N–.09 143.6E–.10 35 4.0b 16 4-145

IDC III 13 14 52 08.9–.83 36.46N 143.98E 0 4.6,4.6s ¶16409262
ISCJB III 13 14 52 11.5–.59 36.49N–.06 143.6E–.10 33 4.0b,4.6s
NEIC III 13 14 52 11.0–6.0 36.49N 143.69E 13–39 4.4b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=29.1km s-min=20.4km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=7.5km az=27.9.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=10.8km az=101.0.
ISC III 13 14 57 12.8–1.2 36.7N–.20 142.1E–.20 19 3.6b 7 3-69
IDC III 13 14 57 09.8–1.2 36.66N 142.19E 0 3.8,3.6 ¶17194900
ISCJB III 13 14 57 10.5–1.0 36.6N–.10 142.2E–.20 19 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 15 00 17.7–1.1 36.60N 144.52E 0 3.7,3.6
¶17194901
IDC Error ellipse: s-maj=50.6km s-min=22.5km az=99.0.
ISC III 13 15 04 54.8–.62 36.92N–.07 142.11E–.06 19 3.9b 28 1-146
JMA III 13 15 04 49.6–.70 37.07N 142.31E 0 4.3 ¶17194902
ISCJB III 13 15 04 53.1–.49 36.88N–.05 142.21E–.06 19 3.8b
IDC III 13 15 04 58.6–2.4 36.93N 142.16E 47–23 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.7km az=159.7.
IDC Error ellipse: s-maj=17.2km s-min=14.4km az=109.0.
ISC III 13 15 08 49.3–.38 36.94N–.04 144.49E–.05 26 5.0b,4.8s 312 3-150
NIED III 13 15 08 00 36.90N 144.40E 5 5.0W,4.8s ¶16409284
IDC III 13 15 08 45.0–.46 36.80N 144.58E 0 4.6,4.5
ISCJB III 13 15 08 48.0–.18 36.97N–.03 144.40E–.02 26 4.9s,4.9b
BJI III 13 15 08 47.5 37.06N 144.55E 22 5.5b,5.0s
GCMT III 13 15 08 48.6–.30 36.72N 144.44E 12 5.2W,5.0s
MOS III 13 15 08 48.9–.96 37.15N 144.48E 26 5.2b,5.0s
NEIC III 13 15 08 48.6–.67 36.90N 144.47E 21–4 5.1b,5.0s
JMA III 13 15 08 49.0–.30 36.92N 144.37E 62 4.9,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ12.00000°,λ-78.00000°. NP2:ϕ_s171.00000°,δ78.00000°,λ-93.00000°. $M_0$3.46000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=10.6km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.6km az=163.3.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c17; s71,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.02±.14 $M_{\theta\theta}$-0.12±.16; $M_{\phi\phi}$4.14±.10; $M_{r\theta}$-4.65±.63; $M_{\theta\phi}$-0.65±.13; $M_{\phi r}$4.04±.49; Best double couple: NP1:ϕ_s141.00000°,δ75.00000°,λ-107.00000°. NP2:ϕ_s10.00000°,δ23.00000°,λ-43.00000°. Principal axes:
T 6.8060,Plg28.0000°,Azm244.0000°; N 1.1030,Plg16.0000°,Azm145.0000°
; P -7.9070,Plg57.0000°,Azm28.0000° $M_0$7.35600×10^{16}
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=96.3.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 13 15 11 57.3–.79 37.86N–.07 142.82E–.08 18 4.7b 28 2-89
IDC III 13 15 11 54.3–.82 37.82N 142.85E 0 4.8,4.6 ¶16409263
ISCJB III 13 15 11 55.4–.56 37.83N–.05 142.83E–.07 18 4.7b,4.6
JMA III 13 15 11 57.9–.50 38.01N 142.52E 0 4.6,4.6
NEIC III 13 15 11 59.7–.44 37.80N 142.81E 35 4.8b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=19.8km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=6.2km az=146.2.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=10.6km az=97.0.
ISC III 13 15 18 41.0–.79 37.7N–.10 143.8E–.10 35 4.0b 30 5-80
IDC III 13 15 18 35.8–.78 37.69N 143.82E 0 4.1,4.0 ¶16409264
ISCJB III 13 15 18 38.8–.58 37.64N–.07 143.77E–.10 33 4.0b,4.0
NEIC III 13 15 18 39.4–2.9 37.69N 143.83E 23–20 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=17.2km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=9.3km az=41.5.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.4km az=88.0.
ISC III 13 15 25 29.4–1.2 37.7N–.20 143.7E–.20 35 3.7b 10 5-72
IDC III 13 15 25 24.1–1.0 37.65N 143.61E 0 3.9,3.7 ¶16477532
ISCJB III 13 15 25 26.9–.91 37.6N–.10 143.8E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 15 38 58.2–.82 38.14N–.09 143.6E–.10 19 3.5b 19 5-74
ISCJB III 13 15 38 56.2–.77 38.12N–.08 143.6E–.10 19 3.5b ¶16409267
NEIC III 13 15 38 58.7–.69 38.22N 143.60E 20–4 4.4b
IDC III 13 15 38 59.4–1.1 38.20N 143.53E 25–6 3.9L,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=8.2km az=30.6.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=8.2km az=129.0.
IDC Error ellipse: s-maj=23.1km s-min=18.3km az=140.0.
ISC III 13 15 43 28.6–.49 39.78N–.05 143.82E–.06 20–1 4.2b 85 2-87
JMA III 13 15 43 25.5–.40 39.84N 143.82E 5 4.5 ¶17194908
IDC III 13 15 43 29.7–.48 39.69N 143.80E 26–2 4.0,3.9
NEIC III 13 15 43 30.4–2.2 39.77N 143.77E 30–16 4.5b,3.9
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=11.6km az=84.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.3km az=115.0.
ISC III 13 15 44 12.5–.94 37.7N–.10 144.2E–.10 35 3.9b 12 5-76
IDC III 13 15 44 07.5–.88 37.57N 144.38E 0 4.2,3.9b ¶16409268
ISCJB III 13 15 44 10.2–.70 37.52N–.09 144.22E–.09 33 4.0b,3.9b
NEIC III 13 15 44 12.7–.62 37.57N 144.23E 35 4.7b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=20.3km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=10.0km az=22.6.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=12.0km az=157.0.
ISC III 13 15 49 07.9–.69 39.87N–.06 144.38E–.06 26–3 3.8b 44 2-87
JMA III 13 15 49 06.6–.50 39.85N 144.35E 44 3.9 ¶17194910
ISCJB III 13 15 49 06.5–1.8 39.92N–.04 144.31E–.05 24–14 3.7b
IDC III 13 15 49 08.7–.68 39.71N 144.39E 33–4 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.5km az=139.2.
IDC Error ellipse: s-maj=18.8km s-min=15.3km az=85.0.
ISC III 13 15 56 19.5–4.2 38.72N–.06 143.29E–.08 14–27 4.2b,3.4s 50 2-82
IDC III 13 15 56 17.3–.87 38.61N 143.13E 0 4.2,4.1b ¶602657988
ISCJB III 13 15 56 18.5–1.7 38.66N–.04 143.35E–.06 24–13 4.1b,3.6s
JMA III 13 15 56 19.8–.30 38.79N 143.14E 9 4.3,3.6s
NEIC III 13 15 56 20.6–2.5 38.69N 143.27E 23–18 4.4b,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=25.0km s-min=17.0km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.4km az=148.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.5km az=98.0.
ISC III 13 16 07 22.1–.61 36.16N–.06 143.29E–.07 35 4.0b 52 2-146
NIED III 13 16 07 00 36.50N 143.30E 5 4.1W ¶16409271
IDC III 13 16 07 16.7–.65 36.13N 143.45E 0 4.1,4.0
NEIC III 13 16 07 18.9–4.1 36.12N 143.46E 15–25 4.4b,4.0
JMA III 13 16 07 19.0–.50 36.48N 143.31E 41 4.1,4.0
ISCJB III 13 16 07 20.1–.44 36.06N–.05 143.29E–.05 33 3.9b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ29.00000°,λ-55.00000°. NP2:ϕ_s179.00000°,δ66.00000°,λ-108.00000°. $M_0$1.35000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 13 16 15 58.5–3.7 39.23N–.06 143.06E–.05 12–23 4.7b,4.1s 179 1-96
NIED III 13 16 15 00 39.30N 143.00E 8 4.4W,4.1s ¶602657924
IDC III 13 16 15 56.4–.58 39.16N 142.97E 0 4.4,4.3
JMA III 13 16 15 57.3–.20 39.27N 142.98E 0 4.8,4.3
ISCJB III 13 16 15 58.1–1.1 39.19N–.04 143.05E–.03 19–7 4.5b,3.9s
MOS III 13 16 15 59.8–.89 39.41N 142.94E 26 4.9b,3.9s
NEIC III 13 16 16 00.8–1.6 39.30N 142.86E 23–11 4.8b,3.9s
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ63.00000°,λ-168.00000°. NP2:ϕ_s82.00000°,δ80.00000°,λ-28.00000°. $M_0$5.15000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=12.4km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=168.6.
MOS Error ellipse: s-maj=8.3km s-min=5.2km az=93.6.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=3.8km az=150.0.
JMA III 13 16 20 47.6–.30 37.32N 142.45E 0 3.8
¶602657911
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 13 16 33 36.0–12 36.78N 144.10E 0 3.7,3.6b
¶17194922
IDC Error ellipse: s-maj=411.4km s-min=34.4km az=63.0.
ISC III 13 16 34 51.2–.56 38.42N–.06 144.37E–.06 29 4.3b 125 3-144
NIED III 13 16 34 00 38.40N 144.30E 5 4.3W ¶16314258
IDC III 13 16 34 46.6–.60 38.24N 144.36E 0 4.2,4.1
MOS III 13 16 34 49.4–.98 38.58N 144.29E 20 4.8b,4.1
JMA III 13 16 34 50.4–.40 38.42N 144.31E 50 4.4,4.1
ISCJB III 13 16 34 50.2–.34 38.48N–.03 144.26E–.03 29 4.2b,3.6s
NEIC III 13 16 34 52.2–.36 38.32N 144.30E 35 4.6b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ30.00000°,λ-92.00000°. NP2:ϕ_s200.00000°,δ60.00000°,λ-89.00000°. $M_0$3.69000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=12.9km az=142.0.
MOS Error ellipse: s-maj=10.8km s-min=6.5km az=100.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.6km az=171.8.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.4km az=144.0.
ISC III 13 16 39 50.1–.54 37.11N–.06 143.55E–.06 35 4.2b 66 3-89
NIED III 13 16 39 00 37.10N 143.20E 5 4.0W ¶16409273
IDC III 13 16 39 45.0–.59 37.20N 143.61E 0 4.2,4.1
NEIC III 13 16 39 45.8–3.5 37.21N 143.64E 5–22 4.5b,4.1
ISCJB III 13 16 39 48.2–.36 37.13N–.04 143.50E–.04 33 4.0b,4.1
JMA III 13 16 39 52.8–.40 37.07N 143.21E 42 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ31.00000°,λ-118.00000°. NP2:ϕ_s66.00000°,δ63.00000°,λ-74.00000°. $M_0$1.11000×10^{15}
IDC Error ellipse: s-maj=15.9km s-min=13.7km az=109.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.3km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.6km az=156.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 16 47 54.6–.88 39.4N–.10 143.72E–.10 11 4.0b 33 3-87
IDC III 13 16 47 52.0–1.3 39.26N 143.70E 0 4.1,4.0 ¶16409279
ISCJB III 13 16 47 52.7–.77 39.4N–.10 143.75E–.10 11 4.0b,4.0
NEIC III 13 16 47 59.0–2.1 39.50N 143.62E 40–14 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=16.2km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=16.5km s-min=9.6km az=157.8.
NEIC Event type fe. Error ellipse: s-maj=21.4km s-min=10.2km az=151.0. Recorded [2 JMA] in Chiba.
ISC III 13 16 52 56.3–2.2 39.39N–.07 143.27E–.06 1–13 4.0b 38 2-72
ISCJB III 13 16 52 56.1–1.8 39.37N–.04 143.48E–.05 16–14 3.8b ¶16409280
IDC III 13 16 52 56.2–.79 39.39N 143.36E 0 4.3L,4.0
JMA III 13 16 52 57.7–.40 39.57N 143.23E 0 4.5,4.0
NEIC III 13 16 53 01.0–.46 39.35N 143.39E 35 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.1km az=43.3.
IDC Error ellipse: s-maj=21.2km s-min=15.7km az=107.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.6km az=108.0.
ISC III 13 16 57 19.9–.57 37.68N–.06 142.88E–.07 24 3.8b 35 2-145
IDC III 13 16 57 16.3–.59 37.74N 142.76E 0 4.2L,4.1 ¶16409281
ISCJB III 13 16 57 17.7–.42 37.63N–.04 142.94E–.05 24 3.9b,4.1
JMA III 13 16 57 18.2–.30 37.70N 142.62E 0 4.4,4.1
NEIC III 13 16 57 21.8–1.3 37.67N 142.84E 38–13 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=14.4km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.4km az=21.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.5km az=71.0.
ISC III 13 17 04 01.1–.45 37.56N–.06 143.70E–.06 35 4.9b,4.5s 146 2-153
IDC III 13 17 03 56.7–.59 37.64N 143.71E 0 4.6,4.5 ¶602657807
MOS III 13 17 03 58.8–1.3 37.81N 143.70E 26 5.2b,4.5
ISCJB III 13 17 03 59.1–.27 37.58N–.04 143.67E–.04 33 4.8b,4.6s
NEIC III 13 17 04 01.4–.30 37.65N 143.60E 35 5.1b,4.6s
JMA III 13 17 04 12.7–.10 37.18N 141.58E 25–1 4.5,4.6s
ISC Event type ke.
IDC Error ellipse: s-maj=16.7km s-min=12.9km az=152.0.
MOS Error ellipse: s-maj=9.2km s-min=6.4km az=93.3.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=144.7.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.0km az=147.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 13 17 05 57.7–.38 37.60N–.05 143.65E–.04 26–2 5.3s,5.0b 443 2-153
IDC III 13 17 05 54.0–.51 37.61N 143.72E 0 4.7,4.6 ¶600544255
BJI III 13 17 05 55.0 37.80N 143.43E 10 5.4b,5.2s
JMA III 13 17 05 56.1–.40 37.66N 143.56E 27 5.0,5.2s
ISCJB III 13 17 05 56.9–.18 37.59N–.03 143.62E–.03 31 5.2s,5.0b
GCMT III 13 17 05 58.8–.30 37.86N 143.61E 12 4.9W,5.0b
NEIC III 13 17 05 58.8–.19 37.57N 143.67E 35 5.1b,5.0b
MOS III 13 17 05 59.4–1.3 37.98N 143.64E 34 5.3b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.2km az=134.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.4km az=157.7.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c15; s84,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.21±.07 $M_{\theta\theta}$0.30±.08; $M_{\phi\phi}$1.91±.06; $M_{r\theta}$1.01±.32; $M_{\theta\phi}$0.74±.06; $M_{\phi r}$1.49±.28; Best double couple: NP1:ϕ_s209.00000°,δ65.00000°,λ-83.00000°. NP2:ϕ_s14.00000°,δ26.00000°,λ-104.00000°. Principal axes:
T 2.8220,Plg19.0000°,Azm294.0000°; N 0.0540,Plg6.0000°,Azm26.0000°
; P -2.8720,Plg70.0000°,Azm133.0000° $M_0$2.84700×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=3.8km az=148.0.
MOS Error ellipse: s-maj=6.9km s-min=4.2km az=100.7.
ISC III 13 17 07 36.5–.54 36.93N–.07 143.78E–.07 35 4.5b 59 4-153
IDC III 13 17 07 31.4–.56 37.02N 143.91E 0 4.6,4.4 ¶16461598
ISCJB III 13 17 07 34.6–.35 36.87N–.05 143.76E–.05 33 4.4b,4.4
NEIC III 13 17 07 36.7–.25 36.97N 143.83E 35 4.6b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=15.1km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.6km az=163.3.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.4km az=156.0.
ISC III 13 17 20 17.4–.44 37.99N–.06 143.09E–.06 18 4.7b 146 2-145
NIED III 13 17 20 00 37.00N 141.60E 11 4.5W ¶16461599
IDC III 13 17 20 14.9–.51 37.98N 143.07E 0 4.4,4.4
ISCJB III 13 17 20 15.5–.27 37.91N–.04 143.10E–.04 18 4.5b,3.7s
MOS III 13 17 20 17.2–1.1 38.03N 143.02E 29 4.8b,3.7s
NEIC III 13 17 20 19.7–.30 37.95N 143.02E 35 4.8b,3.7s
JMA III 13 17 20 46.4–.10 36.98N 141.57E 29–2 4.6,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ45.00000°,λ15.00000°. NP2:ϕ_s282.00000°,δ79.00000°,λ134.00000°. $M_0$6.71000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=12.5km az=127.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.7km az=140.9.
MOS Error ellipse: s-maj=10.5km s-min=6.4km az=106.9.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 13 17 23 36.4–.40 37.42N 142.47E 7 4.3
¶602657794
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC III 13 17 26 07.6–1.2 37.02N 142.57E 0 3.7,3.7L

¶17194927

IDC Error ellipse: s-maj=42.4km s-min=24.2km az=101.0.
ISC III 13 17 33 43.6–.60 36.37N–.07 143.60E–.08 35 4.0b 30 4-145
IDC III 13 17 33 39.1–.71 36.47N 143.58E 0 4.1,4.0L **¶16477559**
ISCJB III 13 17 33 41.7–.48 36.38N–.05 143.55E–.07 33 3.8b,4.0L
NEIC III 13 17 33 43.8–.47 36.35N 143.59E 35 4.0b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=24.7km s-min=17.7km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.7km az=35.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.4km az=106.0.
ISC III 13 17 40 29.5–.56 37.91N–.04 142.72E–.04 20–2 5.1b,4.6s 994 2-154
NIED III 13 17 40 00 37.90N 142.60E 8 4.9W,4.6s **¶16477560**
IDC III 13 17 40 26.6–.42 37.85N 142.64E 0 5.1,5.1
ISCJB III 13 17 40 27.0–.92 37.87N–.02 142.70E–.02 11–5 5.1b,4.7s
BJI III 13 17 40 27.5 38.04N 142.68E 22 5.2b,5.0b
JMA III 13 17 40 27.8–.50 37.93N 142.58E 2 5.1,5.0b
GCMT III 13 17 40 30.1–.30 37.88N 142.61E 12 5.0W,5.0b
MOS III 13 17 40 30.0–.75 38.22N 142.61E 22 5.4b,4.2s
NEIC III 13 17 40 30.1–.39 37.93N 142.60E 20–2 5.1b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ53.00000°,λ-43.00000°. NP2:ϕ_s144.00000°,δ57.00000°,λ-135.00000°. M_o2.74000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=11.3km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=169.2.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c31; s75,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.99±.11 $M_{\theta\theta}$-0.97±.11; $M_{\phi\phi}$2.95±.07; $M_{r\theta}$-2.86±.34; $M_{\theta\phi}$-0.15±.07; $M_{\phi r}$-0.10±.24; Best double couple: NP1:ϕ_s145.00000°,δ57.00000°,λ-140.00000°. NP2:ϕ_s30.00000°,δ57.00000°,λ-40.00000°. Principal axes:
T 2.9560,Plg0.0000°,Azm268.0000°; N 1.4250,Plg40.0000°,Azm177.0000°
; P -4.3880,Plg50.0000°,Azm358.0000° M_o3.67200×10^{16}
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=98.1.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=152.0.
JMA III 13 17 42 59.4–.60 34.30N 141.81E 28–3 3.8

¶602657281

JMA Error ellipse: s-maj=4.4km s-min=3.7km az=-1.0.
ISC III 13 17 44 31.1–.75 37.9N–.10 144.2E–.10 35 4.1b 28 5-75
IDC III 13 17 44 26.2–.73 37.91N 144.17E 0 4.3,4.1 **¶16310964**
ISCJB III 13 17 44 29.0–.57 37.83N–.07 144.19E–.09 33 4.2b,4.1
NEIC III 13 17 44 31.2–.55 37.89N 144.21E 35 4.9b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.2km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.1km az=136.1.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.7km az=136.0.
ISC III 13 17 49 19.2–.81 36.1N–.10 144.1E–.10 35 3.7b 19 5-81
IDC III 13 17 49 14.0–.76 36.08N 144.12E 0 4.0,3.8 **¶16477563**
ISCJB III 13 17 49 17.1–.62 36.04N–.09 144.1E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 17 51 46.1–.66 37.99N–.06 144.51E–.07 35 4.2b 49 3-88
IDC III 13 17 51 40.7–.79 37.80N 144.61E 0 4.3,4.2 **¶16461600**
JMA III 13 17 51 42.0–.40 37.96N 144.61E 48 4.8,4.2
ISCJB III 13 17 51 44.9–.47 38.06N–.04 144.43E–.04 33 4.0b,4.2
NEIC III 13 17 51 45.9–.62 37.77N 144.67E 35 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=16.7km az=151.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.5km az=139.1.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.2km az=159.0.
ISC III 13 17 53 37.1–.77 37.12N–.07 142.49E–.07 9 3.9b 35 1-89
NIED III 13 17 53 00 37.30N 142.40E 20 4.3W **¶16477567**
ISCJB III 13 17 53 35.1–.56 37.08N–.05 142.55E–.05 9 4.0b
JMA III 13 17 53 38.8–.20 37.26N 142.37E 12–3 4.4
NEIC III 13 17 53 41.7–1.9 37.20N 142.38E 38–15 4.2b
IDC III 13 17 53 41.2–4.1 37.11N 142.41E 35–33 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ46.00000°,λ-149.00000°. NP2:ϕ_s328.00000°,δ68.00000°,λ-49.00000°. M_o2.78000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=6.1km az=158.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=10.7km az=114.0.
IDC Error ellipse: s-maj=25.2km s-min=15.4km az=95.0.
ISC III 13 18 02 04.6–1.1 37.1N–.20 142.7E–.20 9 4.0b 7 4-146
ISCJB III 13 18 02 02.5–1.0 37.0N–.10 142.8E–.30 9 4.5s,4.0b **¶17194931**
IDC III 13 18 02 03.4–1.0 37.03N 142.70E 0 4.7s,4.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.6km s-min=20.2km az=163.6.
IDC Error ellipse: s-maj=33.3km s-min=23.3km az=71.0.
IDC III 13 18 08 44.2–2.5 36.39N 144.34E 0 3.7,3.6

¶17194932

IDC Error ellipse: s-maj=71.1km s-min=26.7km az=70.0.
IDC III 13 18 21 19.6–9.4 35.52N 143.02E 0 3.7,3.6

¶17194934

IDC Error ellipse: s-maj=372.6km s-min=25.5km az=69.0.
ISC III 13 18 22 57.5–1.4 36.3N–.20 142.3E–.10 15 3.3b 8 1-60
IDC III 13 18 23 02.5–9.9 35.93N 141.33E 36–8 3.4,3.4 **¶17194935**
JMA III 13 18 23 26.2–.20 35.98N 141.10E 20–2 3.0,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=350.1km s-min=23.0km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 18 25 12.2–1.1 36.8N–.10 144.2E–.20 35 3.9b 11 5-75
IDC III 13 18 25 07.0–1.0 36.87N 144.24E 0 3.9,3.8 **¶16461601**
ISCJB III 13 18 25 09.9–.84 36.8N–.10 144.2E–.20 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 18 29 09.4–.68 37.96N–.07 142.75E–.08 14 4.0b 30 2-76
ISCJB III 13 18 29 06.9–.58 37.83N–.06 142.82E–.07 14 3.8b **¶17194942**
JMA III 13 18 29 08.8–.30 38.00N 142.62E 0 4.4
IDC III 13 18 29 10.6–.82 37.90N 142.74E 25–6 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.1km az=40.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=23.0km s-min=16.4km az=93.0.
ISC III 13 18 32 08.9–.92 37.6N–.20 144.2E–.20 35 3.6b 11 11-76
IDC III 13 18 32 03.7–.74 37.57N 144.25E 0 4.0,3.7 **¶17194943**
ISCJB III 13 18 32 06.7–.72 37.6N–.10 144.2E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 18 33 20.2–1.0 37.4N–.20 144.3E–.20 35 3.6b 7 43-73
IDC III 13 18 33 14.8–.94 37.39N 144.29E 0 3.9,3.6 **¶17194944**
ISCJB III 13 18 33 17.8–.90 37.4N–.20 144.3E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 18 36 39.8–.98 37.1N–.10 144.1E–.10 35 3.7b 13 12-88
ISCJB III 13 18 36 37.8–.82 37.1N–.10 144.0E–.10 33 3.6b **¶17194945**
IDC III 13 18 36 40.0–1.1 37.09N 144.12E 35–7 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=15.7km az=33.0.
IDC Error ellipse: s-maj=21.2km s-min=18.9km az=96.0.
IDC III 13 18 37 10.6–1.3 38.10N 144.19E 0 3.8,3.8

¶17194948

IDC Error ellipse: s-maj=47.3km s-min=19.9km az=88.0.
ISC III 13 18 40 23.4–.57 38.77N–.06 143.68E–.08 18–2 4.1b 87 2-88
JMA III 13 18 40 19.9–.60 38.87N 143.69E 0 4.1 **¶17194950**
ISCJB III 13 18 40 19.3–1.7 38.74N–.03 143.72E–.07 15–11 4.0b
IDC III 13 18 40 23.9–.54 38.62N 143.68E 23–3 4.0,4.0
NEIC III 13 18 40 25.4–.23 38.64N 143.63E 35 4.5b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=4.4km s-min=4.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=4.9km az=14.2.
IDC Error ellipse: s-maj=15.4km s-min=12.2km az=112.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=121.0.
ISC III 13 18 59 13.8–.55 37.98N–.06 143.00E–.06 18 4.2b 74 2-89
IDC III 13 18 59 11.3–.63 38.02N 143.03E 0 4.2,4.1 **¶16461605**
ISCJB III 13 18 59 12.1–.34 37.97N–.04 143.04E–.04 18 4.1b,4.1
JMA III 13 18 59 12.9–.80 38.09N 142.83E 0 4.4,4.1
NEIC III 13 18 59 16.1–2.1 38.03N 142.99E 32–14 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=14.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=175.5.
JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=130.0.
IDC III 13 19 06 46.1–3.0 37.56N 143.07E 0 4.0,3.9

¶16477592

IDC Error ellipse: s-maj=88.9km s-min=25.5km az=69.0.
ISC III 13 19 07 15.3–.51 37.96N–.04 144.02E–.06 35 4.3b 111 3-144
NIED III 13 19 07 00 37.90N 144.10E 5 4.4W **¶17194955**
IDC III 13 19 07 10.0–.55 37.82N 144.08E 0 4.3,4.2
JMA III 13 19 07 11.7–.40 37.93N 144.09E 41 4.5,4.2
ISCJB III 13 19 07 13.3–.30 37.95N–.03 143.98E–.03 33 4.2b,4.2
NEIC III 13 19 07 15.5–.99 37.83N 143.98E 36–8 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ34.00000°,λ-91.00000°. NP2:ϕ_s203.00000°,δ56.00000°,λ-89.00000°. M_o4.74000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.7km az=111.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.3km az=151.8.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.3km az=128.0.
IDC III 13 19 10 04.9–1.6 39.91N 144.42E 0 4.1,3.7

¶17194957

IDC Error ellipse: s-maj=60.0km s-min=26.6km az=162.0.
ISC III 13 19 10 31.6–.63 36.44N–.05 143.29E–.07 35 4.2b 46 2-89
IDC III 13 19 10 26.9–.73 36.40N 143.55E 0 4.3,4.2 **¶602657185**
ISCJB III 13 19 10 29.4–.46 36.44N–.04 143.32E–.05 33 4.2b,4.2
NEIC III 13 19 10 31.5–.45 36.40N 143.33E 35 4.3b,4.2
JMA III 13 19 10 33.5–.40 36.67N 143.04E 68 4.7,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=16.2km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=36.9.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.3km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 19 12 37.1–.85 39.8N–.10 144.5E–.10 34 3.8b 16 6-87
ISCJB III 13 19 12 34.7–.83 39.7N–.10 144.5E–.20 34 4.2s,3.7b **¶17194958**
IDC III 13 19 12 37.1–.85 39.78N 144.49E 32–5 4.2s,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=12.2km az=35.0.
IDC Error ellipse: s-maj=24.3km s-min=16.4km az=85.0.
ISC III 13 19 15 11.1–.60 37.32N–.07 142.23E–.07 24 3.8b 28 1-89
ISCJB III 13 19 15 09.3–.51 37.30N–.06 142.33E–.07 24 3.9b **¶16477597**
JMA III 13 19 15 12.3–.30 37.30N 142.11E 17–4 4.6
IDC III 13 19 15 12.9–.71 37.34N 142.26E 36–6 3.9,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.9km az=43.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=13.9km az=79.0.
ISC III 13 19 18 39.7–1.2 39.7N–.10 144.6E–.20 23 4.0b 15 6-82
ISCJB III 13 19 18 37.6–1.1 39.6N–.10 144.5E–.20 23 3.9b **¶17194961**
IDC III 13 19 18 42.3–1.5 39.61N 144.45E 44–8 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=16.1km az=169.6.
IDC Error ellipse: s-maj=41.7km s-min=16.7km az=71.0.
ISC III 13 19 25 46.0–.83 37.1N–.10 144.6E–.20 26 3.9b 15 15-75
ISCJB III 13 19 25 43.9–.80 37.0N–.10 144.7E–.20 26 3.8b **¶16461607**
IDC III 13 19 25 47.3–.73 37.06N 144.59E 33–5 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.5km s-min=15.3km az=175.6.
IDC Error ellipse: s-maj=28.0km s-min=14.5km az=101.0.
ISC III 13 19 32 53.4–.76 38.99N–.09 143.41E–.08 20 4.0b 28 2-79
IDC III 13 19 32 50.4–.72 39.05N 143.76E 0 4.0,3.9 **¶16477602**
ISCJB III 13 19 32 51.7–.56 38.98N–.06 143.45E–.08 20 3.9b,3.9
NEIC III 13 19 32 55.4–.66 39.18N 143.66E 35 4.1b,3.9
JMA III 13 19 33 01.2–.20 38.47N 142.17E 36 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=17.6km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=8.2km az=149.5.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=13.6km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 13 19 34 35.8–.88 37.2N–.10 142.5E–.20 9 3.6b 17 7-81
ISCJB III 13 19 34 33.4–.70 37.18N–.08 142.6E–.20 9 3.6b **¶16477603**
IDC III 13 19 34 34.2–.78 37.12N 142.27E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.6km s-min=7.5km az=28.6.
IDC Error ellipse: s-maj=28.1km s-min=17.9km az=116.0.
ISC III 13 19 34 43.3–.46 37.13N–.06 142.41E–.05 9 4.6b 144 2-146
ISCJB III 13 19 34 41.6–.29 37.05N–.04 142.39E–.05 9 4.5b,4.2s **¶17194964**
IDC III 13 19 34 42.1–.57 37.16N 142.44E 0 4.5,4.4
JMA III 13 19 34 44.0–.30 37.32N 142.43E 0 4.5,4.4
NEIC III 13 19 34 47.2–.27 37.09N 142.35E 35 4.8b,4.4
MOS III 13 19 34 47.6–1.1 37.39N 142.19E 37 4.9b,4.4
NIED III 13 19 35 00 35.90N 141.00E 5 4.6W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=37.4.
IDC Error ellipse: s-maj=13.9km s-min=12.9km az=143.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=145.0.
MOS Error ellipse: s-maj=12.6km s-min=6.5km az=123.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ9.00000°,λ-94.00000°. NP2:ϕ_s56.00000°,δ81.00000°,λ-89.00000°. M_o9.71000×10^{15}
ISC III 13 19 38 13.4–.38 37.54N–.04 143.66E–.05 30–2 4.8b,4.0s 326 2-146
ISCJB III 13 19 38 12.8–.19 37.44N–.03 143.59E–.03 38 4.8b,4.0s **¶16311605**
JMA III 13 19 38 12.3–.30 37.51N 143.56E 47 4.8,4.0s
MOS III 13 19 38 12.7–1.6 37.57N 143.66E 33 5.2b,4.0s
NEIC III 13 19 38 13.9–.23 37.48N 143.68E 35 5.0b,4.0s
GCMT III 13 19 38 13.9–.60 37.72N 143.60E 18–1 4.9W,4.0s
IDC III 13 19 38 14.8–.50 37.46N 143.75E 40–3 4.5,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.5km az=151.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=4.6km az=100.3.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.2km az=147.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c17; s63,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.67±.22 $M_{\theta\theta}$-0.41±.13; $M_{\phi\phi}$2.08±.14; $M_{r\theta}$1.31±.36; $M_{\theta\phi}$0.39±.07; $M_{\phi r}$1.10±.26; Best double couple: NP1:ϕ_s215.00000°,δ67.00000°,λ-64.00000°. NP2:ϕ_s343.00000°,δ34.00000°,λ-136.00000°. Principal axes:
T 2.5700,Plg18.0000°,Azm286.0000°; N 0.0450,Plg24.0000°,Azm24.0000°
; P -2.6130,Plg59.0000°,Azm161.0000° M_o2.59100×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=10.1km az=103.0.
ISC III 13 19 46 26.2–.42 38.31N–.04 144.73E–.05 24–2 4.9b 428 3-153
MOS III 13 19 46 25.3–1.1 38.26N 144.72E 29 5.1b **¶602657156**
ISCJB III 13 19 46 25.8–.17 38.32N–.03 144.65E–.02 31 4.8b
IDC III 13 19 46 27.2–.53 38.23N 144.79E 31–3 4.6,4.5
NEIC III 13 19 46 27.6–.15 38.27N 144.67E 35 4.9b,4.5
JMA III 13 19 46 27.6–.30 38.42N 144.60E 50 4.7,4.5
ISC Event type ke.
MOS Error ellipse: s-maj=7.4km s-min=4.7km az=104.2.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.6km az=177.0.
IDC Error ellipse: s-maj=11.5km s-min=10.5km az=131.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=158.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 13 19 51 34.8–.95 37.00N 142.75E 0 3.8,3.7

¶17194967
IDC Error ellipse: s-maj=29.0km s-min=18.7km az=90.0.
ISC III 13 19 52 35.6–.69 37.66N–.09 143.2E–.10 24 3.8b 31 4-89
ISCJB III 13 19 52 33.6–.55 37.61N–.06 143.2E–.10 24 3.9b ¶16477608
IDC III 13 19 52 35.8–.69 37.66N 143.16E 23–3 4.2L,3.9
NEIC III 13 19 52 36.9–.54 37.65N 143.18E 35 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.6km az=28.1.
IDC Error ellipse: s-maj=19.4km s-min=13.8km az=96.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.2km az=121.0.
ISC III 13 19 52 55.5–.91 37.2N–.20 143.1E–.10 25 4.2b 12 12-75
IDC III 13 19 52 51.6–.79 37.18N 143.09E 0 4.3,4.1 ¶17194968
ISCJB III 13 19 52 53.4–.73 37.2N–.10 143.0E–.10 25 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 19 54 16.3–1.1 36.3N–.10 143.2E–.10 35 3.9b 22 2-76
IDC III 13 19 54 10.2–1.5 36.17N 143.44E 0 4.1,4.0 ¶16477610
ISCJB III 13 19 54 14.1–.88 36.20N–.08 143.1E–.10 33 3.8b,4.0
NEIC III 13 19 54 16.1–.99 36.25N 143.17E 35 4.0b,4.0
JMA III 13 19 54 20.6–.20 37.00N 142.23E 5–2 4.6,4.0
ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=23.3km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=10.7km az=21.2.
NEIC Event type se. Error ellipse: s-maj=18.2km s-min=14.1km az=126.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 19 57 54.7–.91 38.00N–.07 142.78E–.10 18 4.0b 36 2-81
IDC III 13 19 57 51.9–1.1 37.98N 142.83E 0 4.0,3.9 ¶16461612
ISCJB III 13 19 57 52.7–.64 37.97N–.04 142.83E–.08 18 3.9b,3.9
JMA III 13 19 57 53.6–.50 38.14N 142.68E 0 4.1,3.9
NEIC III 13 19 57 57.2–.99 38.05N 142.76E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=21.0km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.9km az=17.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=10.2km az=133.0.
ISC III 13 20 04 32.2–.89 35.97N–.06 142.17E–.09 23 4.1b 24 1-80
NIED III 13 20 04 00 36.00N 142.10E 14 4.3W ¶17194970
IDC III 13 20 04 26.8–.99 36.12N 142.77E 0 4.2,4.1
ISCJB III 13 20 04 30.2–.68 35.97N–.05 142.25E–.08 23 4.0b,4.1
JMA III 13 20 04 32.2–.30 36.01N 142.06E 84 3.6,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ40.00000°,λ96.00000°. NP2:ϕ_s21.00000°,δ51.00000°,λ85.00000°. $M_0$3.26000×10^{15}
IDC Error ellipse: s-maj=24.1km s-min=20.6km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.8km az=5.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 13 20 13 10.0–.88 37.30N–.08 142.8E–.10 21 3.7b 15 4-75
IDC III 13 20 13 06.9–.96 37.31N 142.75E 0 4.2,4.2s ¶602707130
ISC Event type ke.
IDC Error ellipse: s-maj=31.4km s-min=16.3km az=92.0.
ISC III 13 20 13 38.8–.42 37.31N–.05 142.22E–.06 24 4.5b 127 3-146
IDC III 13 20 13 35.9–.56 37.39N 142.21E 0 4.3,4.2 ¶17194972
ISCJB III 13 20 13 37.4–.27 37.36N–.03 142.17E–.05 24 4.4b,4.3s
MOS III 13 20 13 37.5–1.2 37.44N 142.11E 22 4.9b,4.3s
NEIC III 13 20 13 41.7–.83 37.40N 142.15E 44–7 4.8b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=12.9km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.1km az=37.8.
MOS Error ellipse: s-maj=9.7km s-min=6.0km az=95.2.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.7km az=134.0.
ISC III 13 20 19 09.4–1.1 37.16N–.09 143.4E–.20 35 3.8b 12 5-69
IDC III 13 20 19 04.2–1.1 37.18N 143.53E 0 3.9,3.8 ¶17194975
ISCJB III 13 20 19 06.8–.86 37.09N–.07 143.5E–.20 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA III 13 20 19 37.4–.50 36.80N 142.54E 0 4.2
¶603145359
JMA Error ellipse: s-maj=4.4km s-min=2.7km az=-1.0.
JMA III 13 20 26 49.4–.20 37.07N 142.34E 17 3.8
¶602657120
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 13 20 31 01.1–.83 37.28N–.07 143.52E–.08 35 4.0b 35 2-69
IDC III 13 20 30 56.3–.98 37.31N 143.47E 0 4.0,4.0 ¶600544460
JMA III 13 20 30 58.9–.30 37.47N 143.50E 50 4.5,4.0
ISCJB III 13 20 30 58.7–.56 37.28N–.05 143.54E–.05 33 3.8b,4.0
NEIC III 13 20 30 58.9–.91 37.55N 143.80E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=27.4km s-min=15.6km az=93.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=141.3.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=12.6km az=100.0.
ISC III 13 20 32 19.0–.62 37.26N–.06 142.13E–.06 19 3.9b 33 1-77
IDC III 13 20 32 16.7–.70 37.35N 142.16E 0 4.1,4.0 ¶16461614
ISCJB III 13 20 32 17.2–.47 37.25N–.05 142.16E–.06 19 3.9b,4.0
JMA III 13 20 32 21.3–.20 37.37N 141.94E 23–2 4.2,4.0
NEIC III 13 20 32 21.5–.58 37.35N 142.06E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.2km az=152.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=11.5km az=118.0.
ISC III 13 20 35 14.0–.54 37.67N–.06 143.73E–.06 35 4.6b 169 3-86
IDC III 13 20 35 08.7–.68 37.59N 143.85E 0 4.4,4.3 ¶16314260
MOS III 13 20 35 10.7–1.3 37.76N 143.84E 21 4.9b,4.3
JMA III 13 20 35 12.2–.50 37.72N 143.64E 42 4.7,4.3
ISCJB III 13 20 35 13.4–.32 37.84N–.04 143.67E–.04 33 4.5b,3.4s
NEIC III 13 20 35 14.2–.30 37.64N 143.74E 35 4.8b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=13.8km az=146.0.
MOS Error ellipse: s-maj=9.3km s-min=5.5km az=94.2.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.0km az=158.9.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.6km az=153.0.
ISC III 13 20 44 31.6–.90 39.84N–.07 144.4E–.10 34 3.9b 28 2-82
IDC III 13 20 44 26.3–.98 39.75N 144.54E 0 4.0,3.9 ¶16477628
ISCJB III 13 20 44 29.6–.63 39.77N–.05 144.40E–.09 34 3.8b,3.9
NEIC III 13 20 44 31.6–.67 39.77N 144.41E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=19.1km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.6km az=19.9.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=8.6km az=109.0.
ISC III 13 20 47 20.8–.76 39.60N–.08 143.6E–.10 11 4.1b 26 2-72
ISCJB III 13 20 47 18.9–.60 39.58N–.05 143.54E–.09 11 4.0b,3.7s ¶16477629
IDC III 13 20 47 18.9–.95 39.55N 143.55E 0 4.2,4.0
NEIC III 13 20 47 24.1–.52 39.59N 143.52E 35 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=6.5km az=25.9.
IDC Error ellipse: s-maj=23.6km s-min=18.0km az=144.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.1km az=126.0.
ISC III 13 20 51 19.1–.58 36.88N–.09 144.00E–.07 35 4.3b,3.5s 80 5-89
IDC III 13 20 51 13.9–.59 36.82N 144.10E 0 4.4,4.2 ¶16477631
ISCJB III 13 20 51 17.1–.34 36.78N–.06 143.96E–.05 33 4.3b,3.5s
NEIC III 13 20 51 19.1–.33 36.83N 144.00E 35 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=13.3km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.2km az=156.9.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.6km az=151.0.
ISC III 13 20 51 40.6–.65 36.78N–.08 143.87E–.09 35 4.2b 25 5-89
IDC III 13 20 51 35.9–.85 36.86N 144.01E 0 4.3,4.1 ¶17194983
ISCJB III 13 20 51 38.2–.51 36.71N–.06 143.85E–.09 33 4.1b,4.1
NEIC III 13 20 51 40.5–.44 36.73N 143.81E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=29.3km s-min=19.0km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=7.1km az=27.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.0km az=118.0.
ISC III 13 20 52 05.9–.92 37.92N–.05 142.32E–.08 14 4.1b 19 1-82
NIED III 13 20 52 00 37.90N 142.30E 44 4.3W ¶17194985
ISCJB III 13 20 52 04.0–.71 37.88N–.05 142.53E–.07 14 4.1b
IDC III 13 20 52 06.7–.80 37.72N 140.53E 0 4.3,4.2
JMA III 13 20 52 07.5–.20 37.90N 142.29E 17–4 4.2,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ19.00000°,λ-146.00000°. NP2:ϕ_s6.00000°,δ80.00000°,λ-75.00000°. $M_0$3.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=7.1km az=147.4.
IDC Error ellipse: s-maj=24.7km s-min=16.9km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 13 20 58 41.7–.54 37.95N–.05 144.19E–.06 35 4.3b 77 3-118
IDC III 13 20 58 36.5–.57 37.85N 144.28E 0 4.3,4.2 ¶16461616
JMA III 13 20 58 38.5–.40 38.01N 144.21E 41 4.8,4.2
ISCJB III 13 20 58 39.6–.34 37.92N–.04 144.16E–.04 33 4.2b,3.6s
NEIC III 13 20 58 41.6–.32 37.87N 144.24E 35 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=13.1km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=162.9.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.6km az=133.0.
ISC III 13 21 08 55.5–1.1 37.2N–.10 143.6E–.20 35 3.6b 8 5-61
IDC III 13 21 08 50.3–1.1 37.14N 143.56E 0 3.8,3.7 ¶17194986
ISCJB III 13 21 08 53.0–.95 37.1N–.10 143.6E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 21 13 37.4–.43 37.60N–.05 142.08E–.06 24 4.4b 74 1-146
IDC III 13 21 13 33.9–.65 37.61N 141.98E 0 4.7L,4.2 ¶16461618
ISCJB III 13 21 13 35.4–.31 37.53N–.04 142.14E–.05 24 4.4b,4.2
JMA III 13 21 13 37.0–.30 37.64N 141.95E 8–4 4.2,4.2
NEIC III 13 21 13 39.0–1.9 37.58N 142.05E 34–13 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=14.7km az=96.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.5km az=137.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=117.0.
ISC III 13 21 15 58.7–.68 37.91N–.07 143.56E–.10 19 4.1b 39 4-76
IDC III 13 21 15 55.9–.81 37.87N 143.63E 0 3.9,3.9 ¶16477254
ISCJB III 13 21 15 56.5–.45 37.82N–.06 143.58E–.08 19 4.3b,3.9
NEIC III 13 21 16 01.1–.36 37.85N 143.59E 35 4.9b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=17.3km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=7.3km az=31.4.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.8km az=133.0.
ISC III 13 21 21 06.7–.38 37.74N–.04 143.24E–.05 18 4.6b 145 2-89
JMA III 13 21 21 03.9–.50 37.88N 143.17E 0 4.3 ¶16461555
IDC III 13 21 21 04.7–.56 37.80N 143.18E 0 4.4,4.3
ISCJB III 13 21 21 05.0–.26 37.78N–.03 143.24E–.04 18 4.5b,3.3s
NEIC III 13 21 21 06.2–2.9 37.81N 143.18E 10–18 4.8b,3.3s
MOS III 13 21 21 07.1–1.4 37.93N 143.18E 29 4.8b,3.3s
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=12.3km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.8km az=22.2.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.2km az=139.0.
MOS Error ellipse: s-maj=9.4km s-min=6.2km az=99.1.
ISC III 13 21 27 19.3–.50 38.63N–.06 144.34E–.07 29 4.2b 59 4-148
IDC III 13 21 27 15.3–.62 38.59N 144.41E 0 4.2,4.1 ¶16461619
ISCJB III 13 21 27 17.7–.35 38.52N–.05 144.27E–.06 29 4.1b,4.1
NEIC III 13 21 27 20.4–.36 38.56N 144.31E 35 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.7km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.0km az=33.4.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.8km az=129.0.
ISC III 13 21 32 05.9–.52 37.21N–.05 144.08E–.06 35 4.5b 85 3-145
IDC III 13 21 32 01.3–.60 37.23N 144.14E 0 4.2,4.1 ¶16477255
ISCJB III 13 21 32 03.8–.30 37.23N–.03 144.04E–.03 33 4.4b,4.1
JMA III 13 21 32 05.0–.30 37.32N 144.00E 55 4.6,4.1
NEIC III 13 21 32 06.1–.35 37.24N 144.17E 35 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=13.5km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=163.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.6km az=141.0.
ISC III 13 21 37 43.7–.55 35.66N–.06 142.16E–.07 22 4.2b,4.0s 55 1-147
JMA III 13 21 37 37.7–.40 35.77N 142.41E 7–5 4.2,4.0s ¶16461620
IDC III 13 21 37 40.5–.59 35.66N 142.07E 0 4.2,4.1
ISCJB III 13 21 37 41.3–.41 35.63N–.04 142.20E–.06 22 4.2b,4.1s
NEIC III 13 21 37 45.8–1.1 35.65N 142.03E 37–10 4.6b,4.1s
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=13.7km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=40.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.5km az=118.0.
ISC III 13 21 40 14.6–.72 37.46N–.06 142.7E–.10 21 4.0b 23 5-77
IDC III 13 21 40 12.1–1.0 37.56N 142.69E 0 4.1,4.1 ¶16477257
ISCJB III 13 21 40 12.7–.61 37.49N–.05 142.8E–.10 21 3.9b,4.1
NEIC III 13 21 40 18.2–2.1 37.47N 142.67E 50–21 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=23.5km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=7.5km az=5.4.
NEIC Event type se. Error ellipse: s-maj=19.8km s-min=14.0km az=220.0.
ISC III 13 21 41 45.0–1.0 38.58N–.10 144.2E–.20 14 3.7b 11 6-74
IDC III 13 21 41 43.1–1.3 38.68N 144.15E 0 3.9,3.8 ¶17194989
ISCJB III 13 21 41 43.1–.88 38.56N–.08 144.1E–.20 14 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 21 43 03.7–.92 37.0N–.10 142.6E–.20 9 3.8b 9 10-63
ISCJB III 13 21 43 01.4–.79 36.97N–.09 142.6E–.20 9 3.8b ¶17194990
IDC III 13 21 43 07.1–6.5 36.99N 142.52E 33–52 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.4km s-min=11.8km az=165.5.
IDC Error ellipse: s-maj=35.7km s-min=19.1km az=86.0.
ISC III 13 21 46 32.7–.94 39.8N–.10 144.6E–.10 23 3.9b 21 2-82
IDC III 13 21 46 29.0–.97 39.67N 144.56E 0 3.9,3.8 ¶16477640
ISCJB III 13 21 46 30.5–.70 39.69N–.08 144.4E–.10 23 3.9b,3.8
NEIC III 13 21 46 32.7–3.9 39.75N 144.55E 25–26 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=20.4km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=11.2km az=177.4.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=10.3km az=107.0.
ISC III 13 21 54 15.3–.60 37.62N–.07 142.72E–.10 21 4.3b 46 5-118
ISCJB III 13 21 54 13.4–.46 37.59N–.05 142.72E–.09 21 4.3b ¶16461621
NEIC III 13 21 54 14.9–3.5 37.73N 142.67E 15–21 4.4b
IDC III 13 21 54 17.7–5.3 37.72N 142.67E 33–40 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.6km az=11.7.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.4km az=105.0.
IDC Error ellipse: s-maj=20.3km s-min=17.8km az=86.0.
ISC III 13 21 55 42.9–1.1 37.2N–.10 142.8E–.20 25 4.0b 9 10-61
IDC III 13 21 55 39.1–1.2 37.19N 142.92E 0 4.2,4.1 ¶17194993
ISCJB III 13 21 55 40.6–.96 37.16N–.10 142.8E–.30 25 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 22 04 39.6–.52 37.05N–.04 144.64E–.04 19–1 5.0b,4.2s 806 3-152
ISCJB III 13 22 04 35.7–.96 37.04N–.03 144.66E–.02 5–5 4.9b,4.3s ¶16311610
IDC III 13 22 04 36.4–.42 37.04N 144.72E 0 4.8,4.7

MOS III 13 22 04 39.1–.88 37.34N 144.63E 19 5.2b,4.7
NEIC III 13 22 04 41.0–.36 37.04N 144.62E 28–2 5.1b,4.7
GCMT III 13 22 04 41.0–.50 37.18N 144.59E 25–1 4.9W,4.7
JMA III 13 22 04 41.3–.30 37.03N 144.44E 56 4.8,4.7
BJI III 13 22 04 43.2 37.33N 144.12E 26 5.1b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.6km az=166.1.
IDC Error ellipse: s-maj=12.0km s-min=10.3km az=152.0.
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=100.9.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.8km az=158.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c29; s63,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.84±.15 $M_{\theta\theta}$0.23±.09; $M_{\phi\phi}$1.61±.10; $M_{r\theta}$0.14±.20; $M_{\theta\phi}$0.36±.05; $M_{\phi r}$1.86±.19; Best double couple: NP1:ϕ_s187.00000°,δ68.00000°,λ-94.00000°. NP2:ϕ_s19.00000°,δ22.00000°,λ-79.00000°. Principal axes: T 2.4890,Plg23.0000°,Azm281.0000°; N 0.1620,Plg4.0000°,Azm189.0000°; P -2.6520,Plg66.0000°,Azm89.0000° $M_0$2.57000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 22 22 29.1–1.2 37.2N–.10 142.35E–.09 9 4.6b 11 1-88
ISCJB III 13 22 22 26.6–1.0 37.1N–.10 142.48E–.09 9 4.4b,4.2s **¶17195000**
IDC III 13 22 22 26.6–1.7 37.17N 142.63E 0 4.5b,4.5
JMA III 13 22 22 28.5–.40 37.35N 142.34E 10 4.7,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=10.0km az=10.1.
IDC Error ellipse: s-maj=49.2km s-min=23.9km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 13 22 23 54.2–2.9 39.78N–.05 143.49E–.04 3–18 4.8b 148 2-146
ISCJB III 13 22 23 52.7–1.4 39.74N–.03 143.50E–.04 3–8 4.9s,4.6b **¶16311612**
JMA III 13 22 23 55.0–.40 39.84N 143.38E 0 5.2,4.6b
IDC III 13 22 23 58.8–.49 39.73N 143.31E 31–3 4.8,4.8s
NEIC III 13 22 23 58.3–2.1 39.77N 143.32E 27–14 4.7b,4.8s
MOS III 13 22 23 59.1–1.2 39.91N 143.32E 43 5.3b,4.8s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.5km az=163.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.2km s-min=10.4km az=117.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.2km az=139.0.
MOS Error ellipse: s-maj=9.8km s-min=5.8km az=93.9.
ISC III 13 22 30 19.9–.00 38.1N–.10 144.7E–.10 35 4.1b 15 5-83
IDC III 13 22 30 14.6–.90 38.05N 144.74E 0 4.2,4.0 **¶17195001**
ISCJB III 13 22 30 17.7–.78 38.1N–.10 144.7E–.10 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 22 34 01.7–1.4 38.45N 144.84E 0 3.9,3.6
¶17195003
IDC Error ellipse: s-maj=142.4km s-min=23.3km az=106.0.
ISC III 13 22 38 19.6–.65 37.38N–.07 143.30E–.08 27–3 4.4b 97 4-145
MOS III 13 22 38 17.4–.80 37.52N 143.31E 21 4.8b **¶16461623**
IDC III 13 22 38 20.2–.62 37.47N 143.25E 26–3 4.2,4.2
NEIC III 13 22 38 20.5–.69 37.48N 143.25E 29–4 4.7b,4.2
ISC Event type se.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=105.7.
IDC Error ellipse: s-maj=14.5km s-min=13.1km az=116.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.2km az=143.0.
ISC III 13 22 42 13.4–2.2 37.68N–.05 142.15E–.07 25–8 4.0b 52 1-146
NIED III 13 22 42 00 37.70N 142.00E 26 4.0W **¶16477263**
IDC III 13 22 42 09.3–.62 37.73N 142.12E 0 4.4L,4.2
ISCJB III 13 22 42 12.6–.81 37.67N–.03 142.14E–.06 38–7 4.0b,4.2
JMA III 13 22 42 13.6–.20 37.74N 142.01E 28–5 4.2,4.2
NEIC III 13 22 42 14.6–1.1 37.73N 142.11E 36–9 4.0b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ9.00000°,λ-27.00000°. NP2:ϕ_s188.00000°,δ86.00000°,λ-98.00000°. $M_0$1.09000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=15.1km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.7km az=179.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.6km az=133.0.
ISC III 13 22 45 01.8–1.6 37.8N–.10 143.0E–.30 18 4.0b 8 5-62
IDC III 13 22 44 59.0–1.3 37.82N 143.06E 0 4.0,4.0 **¶603049735**
ISCJB III 13 22 44 59.7–1.2 37.81N–.09 143.0E–.30 18 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 22 45 30.0–.31 38.70N–.04 144.77E–.05 35 4.8b,4.0s 469 3-153
IDC III 13 22 45 24.4–.41 38.56N 144.85E 0 4.7,4.6 **¶16477653**
JMA III 13 22 45 26.9–.80 38.75N 144.80E 48 4.6,4.6
MOS III 13 22 45 27.0–.98 38.58N 144.75E 27 5.0b,4.6
NEIC III 13 22 45 28.3–1.4 38.56N 144.74E 22–10 4.9b,4.6
ISCJB III 13 22 45 29.2–.17 38.73N–.03 144.62E–.03 35 4.8b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 22 49 36.4–.41 36.31N–.05 142.38E–.05 15 4.5b,4.2s 123 1-146
NIED III 13 22 49 00 36.30N 142.40E 5 4.7W,4.2s **¶16461624**
ISCJB III 13 22 49 34.8–.30 36.32N–.03 142.38E–.04 15 4.4b,4.1s
NEIC III 13 22 49 36.0–2.2 36.30N 142.36E 11–14 4.7b,4.1s
MOS III 13 22 49 36.5–1.2 36.40N 142.43E 28 4.8b,4.1s
JMA III 13 22 49 36.1–.40 36.30N 142.41E 70 5.0,4.1s
IDC III 13 22 49 38.6–.52 36.29N 142.32E 28–3 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ56.00000°,λ37.00000°. NP2:ϕ_s272.00000°,δ60.00000°,λ140.00000°. $M_0$1.15000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=142.5.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=121.0.
MOS Error ellipse: s-maj=9.5km s-min=6.2km az=98.3.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=10.9km az=122.0.
IDC III 13 22 55 27.3–1.2 36.76N 142.31E 0 3.9,3.5
¶16461564
IDC Error ellipse: s-maj=42.5km s-min=30.7km az=102.0.
ISC III 13 22 59 35.7–.92 36.9N–.10 142.30E–.10 9 4.0b 18 2-83
NIED III 13 22 59 00 37.40N 142.10E 32 4.0W **¶17195004**
ISCJB III 13 22 59 33.6–.73 36.8N–.10 142.35E–.10 9 3.9b
IDC III 13 22 59 33.8–.96 36.83N 142.45E 0 4.0,4.0b
JMA III 13 22 59 42.1–.70 37.43N 142.14E 54 3.8,4.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ27.00000°,λ148.00000°. NP2:ϕ_s298.00000°,δ76.00000°,λ67.00000°. $M_0$1.17000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=10.4km az=23.0.
IDC Error ellipse: s-maj=27.8km s-min=17.7km az=83.0.
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
ISC III 13 23 06 30.1–.95 36.9N–.10 142.73E–.09 9 3.9b 9 4-89
IDC III 13 23 06 28.9–1.4 36.92N 142.74E 0 4.3,4.2L **¶17195012**
ISCJB III 13 23 06 28.6–.80 36.8N–.10 142.7E–.20 9 3.9b,4.2L
ISC Event type ke.
ISCJB Event type ke.
IDC III 13 23 08 54.5–1.3 36.86N 143.13E 0 4.0,3.8
¶17195013
IDC Error ellipse: s-maj=51.7km s-min=27.5km az=94.0.
ISC III 13 23 10 28.3–.63 38.64N–.06 143.03E–.08 23 4.1b 37 2-88
IDC III 13 23 10 24.8–.72 38.66N 143.04E 0 4.2,4.0 **¶16449579**
ISCJB III 13 23 10 27.3–.52 38.76N–.06 143.22E–.06 23 4.0b,4.0
JMA III 13 23 10 31.0–.40 38.92N 143.03E 31 4.0,4.0
NEIC III 13 23 10 32.0–1.1 38.79N 143.05E 48–8 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=16.5km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.9km az=165.6.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.3km az=126.0.
ISC III 13 23 16 34.4–.38 36.91N–.06 143.45E–.06 35 4.8b 257 4-153
IDC III 13 23 16 29.1–.47 36.99N 143.46E 0 4.5,4.4 **¶16449598**
MOS III 13 23 16 30.1–1.1 37.02N 143.43E 14 4.9b,4.4
NEIC III 13 23 16 32.2–1.9 37.01N 143.40E 15–11 4.9b,4.4
ISCJB III 13 23 16 33.5–.21 37.07N–.04 143.30E–.03 33 4.7b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 23 16 47.4–.47 37.00N–.07 143.43E–.08 35 4.5b 64 4-153
IDC III 13 23 16 41.8–.58 36.97N 143.34E 0 4.7,4.6L **¶16449581**
ISCJB III 13 23 16 45.2–.34 37.00N–.05 143.43E–.06 33 4.5b,4.6L
NEIC III 13 23 16 48.2–.63 37.02N 143.40E 43–5 4.4b,4.6L
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=15.2km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.4km az=139.1.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=130.0.
ISC III 13 23 24 42.6–.56 37.02N–.06 143.53E–.06 35 4.2b 63 2-89
NIED III 13 23 24 00 37.10N 143.30E 5 4.2W **¶603049736**
IDC III 13 23 24 37.1–.59 37.04N 143.72E 0 4.2,4.1
NEIC III 13 23 24 37.5–3.1 37.01N 143.73E 3–19 4.1b,4.1
JMA III 13 23 24 40.3–.20 37.06N 143.32E 14 4.0,4.1
ISCJB III 13 23 24 40.5–.42 37.01N–.05 143.50E–.04 33 4.1b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ30.00000°,λ-68.00000°. NP2:ϕ_s219.00000°,δ63.00000°,λ-102.00000°. $M_0$1.98000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 13 23 24 53.5–.87 37.1N–.10 143.7E–.10 35 4.3b 28 4-96
IDC III 13 23 24 48.1–.95 37.07N 143.67E 0 4.3,4.2 **¶602656972**
NEIC III 13 23 24 49.9–3.4 37.07N 143.71E 10–20 4.4b,4.2
ISCJB III 13 23 24 51.5–.76 37.1N–.10 143.6E–.10 33 4.2b,4.2
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
JMA III 13 23 28 28.9–.40 37.42N 142.47E 3 4.0
NIED III 13 23 28 00 37.40N 142.50E 20 4.0W **¶600544592**
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ22.00000°,λ-138.00000°. NP2:ϕ_s234.00000°,δ76.00000°,λ-74.00000°. $M_0$9.81000×10^{14}
ISC III 13 23 29 05.5–1.1 39.6N–.20 144.9E–.10 32 4.2b 26 6-86
IDC III 13 23 29 00.3–2.3 39.59N 144.96E 0 4.2,4.0 **¶16449586**
ISCJB III 13 23 29 03.8–.91 39.7N–.10 144.8E–.10 32 4.1b,4.0
NEIC III 13 23 29 05.9–.82 39.67N 144.92E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=58.3km s-min=20.6km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=19.7km s-min=11.1km az=160.9.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=10.2km az=158.0.
ISC III 13 23 29 43.1–.55 37.55N–.08 144.38E–.08 35 4.3b 56 5-88
NEIC III 13 23 29 38.7–3.5 37.63N 144.51E 4–21 4.4b **¶16449587**
IDC III 13 23 29 38.0–.56 37.61N 144.47E 0 4.3,4.2
ISCJB III 13 23 29 41.2–.42 37.53N–.06 144.41E–.08 33 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 13 23 30 49.9–1.4 36.74N 142.20E 0 4.3,4.1
¶603145360
IDC Error ellipse: s-maj=40.6km s-min=29.3km az=85.0.
ISC III 13 23 35 44.2–.63 37.0N–.10 143.46E–.09 35 4.2b 36 4-153
IDC III 13 23 35 38.7–.55 37.03N 143.35E 0 4.3,4.1 **¶16449592**
NEIC III 13 23 35 39.9–4.6 37.02N 143.53E 6–28 4.6b,4.1
ISCJB III 13 23 35 42.1–.51 37.01N–.09 143.40E–.08 33 4.3b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 13 23 42 26.1–.68 37.47N–.09 143.82E–.09 35 4.3b 28 2-153
JMA III 13 23 42 18.9–.10 37.33N 141.40E 43–2 4.3 **¶16453137**
IDC III 13 23 42 21.1–.70 37.60N 143.81E 0 4.4,4.2
ISCJB III 13 23 42 23.8–.59 37.40N–.07 143.83E–.09 33 4.3b,4.2
NEIC III 13 23 42 26.5–.49 37.51N 143.91E 35 4.3b,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.6km s-min=17.8km az=128.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=8.5km az=42.7.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=9.9km az=159.0.
ISC III 13 23 48 53.9–1.8 38.5N–.30 144.8E–.20 43 3.6b 7 6-87
IDC III 13 23 48 49.0–3.7 38.67N 144.95E 0 3.9,3.7 **¶17195018**
ISCJB III 13 23 48 52.2–1.7 38.5N–.30 144.8E–.20 43 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 23 49 04.9–.81 37.01N–.09 142.0E–.10 19 4.0b 18 5-83
IDC III 13 23 49 01.9–5.9 36.92N 141.92E 0 4.1,4.0b **¶16453139**
ISCJB III 13 23 49 02.4–.71 37.02N–.08 142.1E–.20 19 4.1b,4.0b
NEIC III 13 23 49 06.7–.71 37.05N 142.15E 35 4.0b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=247.2km s-min=22.4km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=10.7km az=171.6.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=10.9km az=81.0.
ISC III 13 23 49 44.7–.71 37.73N–.08 143.2E–.10 24 3.8b 17 5-75
ISCJB III 13 23 49 42.9–.68 37.69N–.07 143.1E–.10 24 3.8b **¶17195021**
IDC III 13 23 49 45.4–.86 37.72N 143.13E 26–5 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=8.3km az=18.7.
IDC Error ellipse: s-maj=23.5km s-min=16.2km az=102.0.
IDC III 13 23 53 53.5–14 37.84N 144.37E 0 3.9s,3.9
¶17195024
IDC Error ellipse: s-maj=342.7km s-min=79.9km az=58.0.
ISC III 13 23 58 31.2–.77 37.31N–.06 143.9E–.10 35 4.1b 22 5-76
IDC III 13 23 58 26.9–.99 37.43N 144.03E 0 4.1,4.1 **¶16453140**
ISCJB III 13 23 58 28.8–.58 37.27N–.05 143.81E–.09 33 4.1b,4.1
NEIC III 13 23 58 28.5–4.2 37.39N 143.87E 13–27 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=20.4km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=6.4km az=11.7.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.2km az=92.0.
ISC III 14 00 07 52.7–.41 37.10N–.07 143.64E–.06 35 4.7b 87 4-153
IDC III 14 00 07 47.4–.49 37.12N 143.71E 0 4.4,4.3 **¶16314264**
ISCJB III 14 00 07 51.1–.25 37.14N–.05 143.65E–.04 33 4.7b,3.3s
NEIC III 14 00 07 53.2–.23 37.21N 143.67E 35 4.8b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.6km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.1km az=154.4.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.4km az=147.0.
ISC III 14 00 13 30.8–.48 39.72N–.08 144.40E–.06 23 4.7b 163 2-154
IDC III 14 00 13 26.6–.54 39.66N 144.52E 0 4.4,4.3 **¶16314265**
ISCJB III 14 00 13 31.2–.42 40.08N–.08 144.44E–.05 23 4.6b,4.3
NEIC III 14 00 13 32.1–.38 39.69N 144.45E 35 4.9b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.8km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=5.1km az=1.2.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.4km az=166.0.
ISC III 14 00 13 39.7–.50 39.63N–.08 144.46E–.08 23 4.7b 83 6-148
NEIC III 14 00 13 34.0–.74 40.34N 144.53E 21–5 4.8b **¶16453149**
IDC III 14 00 13 36.2–.54 39.67N 144.50E 0 4.7,4.5
ISCJB III 14 00 13 37.7–.42 39.61N–.06 144.44E–.08 23 4.5b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 00 19 50.2–.67 36.50N–.07 142.73E–.10 15 4.0b 33 4-90
ISCJB III 14 00 19 48.0–.51 36.46N–.05 142.79E–.08 15 4.0b **¶16453145**
IDC III 14 00 19 48.5–.72 36.57N 142.62E 0 4.0,3.9
NEIC III 14 00 19 50.2–3.9 36.55N 142.78E 14–24 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.6km az=14.5.
IDC Error ellipse: s-maj=22.0km s-min=15.9km az=74.0.

NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.4km az=96.0.
ISC III 14 00 32 36.3–.65 37.78N–.06 144.04E–.07 35 4.1b 53 3-88
IDC III 14 00 32 30.2–.63 37.55N 144.21E 0 4.2,4.1 ¶16453146
ISCJB III 14 00 32 33.9–.47 37.69N–.05 143.99E–.05 33 4.1b,4.1
JMA III 14 00 32 34.3–.50 37.84N 144.05E 44 4.2,4.1
NEIC III 14 00 32 35.2–.44 37.55N 144.16E 35 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.9km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.9km az=152.8.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.7km az=135.0.
JMA III 14 00 37 16.8–.30 37.26N 142.38E 5 4.0
¶603049739
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 00 37 52.6–1.7 38.1N–.30 143.8E–.10 35 3.7b 12 11-88
IDC III 14 00 37 50.0–.75 38.65N 144.00E 0 3.9,3.8 ¶17195026
ISC Event type ke.
IDC Error ellipse: s-maj=22.3km s-min=17.3km az=82.0.
ISC III 14 00 40 18.9–.38 37.91N–.05 144.47E–.05 35 4.5b 152 3-149
IDC III 14 00 40 12.5–.55 37.69N 144.66E 0 4.3,4.2 ¶16453151
JMA III 14 00 40 16.6–.60 37.87N 144.40E 48 4.9,4.2
NEIC III 14 00 40 17.5–1.6 37.88N 144.51E 23–11 4.6b,4.2
ISCJB III 14 00 40 17.4–.23 37.95N–.04 144.39E–.03 33 4.5b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 14 00 56 18.2–.70 37.74N 142.36E 20 4.2
¶602660289
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
ISC III 14 01 01 02.3–.51 36.68N–.05 142.16E–.06 19 4.3b 81 1-90
ISCJB III 14 01 01 00.3–.30 36.65N–.03 142.23E–.04 19 4.8s,4.2b ¶16311621
JMA III 14 01 01 00.2–.30 36.78N 142.28E 23 4.3,4.2b
IDC III 14 01 01 04.9–1.9 36.63N 142.14E 41–17 4.7,4.7s
NEIC III 14 01 01 05.7–.65 36.68N 142.11E 47–5 4.6b,4.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.4km az=13.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=11.0km az=103.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.4km az=124.0.
ISC III 14 01 04 47.7–.57 34.79N–.08 141.25E–.09 48 5.0b 50 2-126
IDC III 14 01 04 41.3–.61 34.77N 141.21E 0 5.5,5.4s ¶16409285
NEIC III 14 01 04 45.9–3.9 34.75N 141.13E 31–27 4.7b,5.4s
ISCJB III 14 01 04 46.0–.41 34.79N–.05 141.21E–.08 48 5.5s,5.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 01 23 18.6–.57 37.39N–.07 142.60E–.07 21 4.2b 39 1-118
JMA III 14 01 23 15.9–.70 37.56N 142.42E 0 4.4 ¶16409288
ISCJB III 14 01 23 16.3–.45 37.26N–.06 142.66E–.06 21 4.1b
IDC III 14 01 23 22.6–2.8 37.36N 142.48E 52–25 4.1,4.0
NEIC III 14 01 23 23.4–1.5 37.31N 142.47E 61–13 4.2b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.3km az=146.8.
IDC Error ellipse: s-maj=17.2km s-min=12.9km az=96.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=8.7km az=107.0.
ISC III 14 01 24 09.2–.86 39.54N–.08 143.49E–.07 11 3.8b 25 2-87
ISCJB III 14 01 24 07.2–.65 39.50N–.06 143.54E–.06 11 3.8b ¶16461677
IDC III 14 01 24 07.1–.80 39.44N 143.46E 0 4.1,3.9
JMA III 14 01 24 08.7–.50 39.51N 143.46E 18 4.6,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.1km az=4.5.
IDC Error ellipse: s-maj=21.5km s-min=19.9km az=90.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 14 01 27 45.7–1.2 37.30N–.10 142.29E–.09 21 3.7b 15 1-61
IDC III 14 01 27 38.2–1.3 37.48N 143.36E 0 3.9,3.8 ¶16477693
JMA III 14 01 27 41.3–.60 37.47N 142.56E 27 4.2,3.8
ISCJB III 14 01 27 42.5–.98 37.30N–.09 142.5E–.10 21 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 01 27 53.9–.62 37.59N–.07 143.60E–.10 35 3.9b 26 4-88
IDC III 14 01 27 49.6–.67 37.67N 143.55E 0 4.2,4.1L ¶17195035
NEIC III 14 01 27 51.9–1.1 37.67N 142.18E 44–12 4.2b,4.1L
ISCJB III 14 01 27 52.5–.51 37.62N–.06 143.35E–.09 33 3.9b,4.1L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 01 34 34.7–.47 37.76N–.05 143.50E–.06 35 4.6b 109 2-154
IDC III 14 01 34 29.1–.51 37.63N 143.57E 0 4.3,4.3 ¶602660816
JMA III 14 01 34 32.8–.40 37.73N 143.35E 46 4.5,4.3
ISCJB III 14 01 34 33.6–.25 37.80N–.04 143.32E–.04 33 4.5b,4.3
NEIC III 14 01 34 35.1–.95 37.67N 143.44E 35–9 4.7b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=13.4km s-min=12.6km az=155.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=157.3.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.1km az=154.0.
ISC III 14 01 40 25.6–.42 38.23N–.05 143.90E–.06 35 4.7b 147 2-144
NEIC III 14 01 40 20.8–2.7 38.11N 143.85E 4–17 4.9b ¶602660247
IDC III 14 01 40 20.4–.51 38.08N 143.84E 0 4.5,4.3
ISCJB III 14 01 40 24.0–.21 38.21N–.03 143.84E–.03 33 4.7b,4.1s
JMA III 14 01 40 24.1–.80 38.24N 143.84E 39 4.8,4.1s
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.6km az=132.0.
IDC Error ellipse: s-maj=14.5km s-min=12.0km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=162.4.
JMA Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.
ISC III 14 01 42 56.3–.79 37.6N–.10 143.7E–.10 35 4.1b 23 4-118
IDC III 14 01 42 50.9–.75 37.56N 143.76E 0 4.2,4.0 ¶16409291
ISCJB III 14 01 42 54.0–.57 37.61N–.08 143.59E–.09 33 4.1b,4.0
NEIC III 14 01 42 56.2–.50 37.61N 143.65E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=18.5km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=9.5km az=156.9.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=10.0km az=145.0.
ISC III 14 01 44 11.4–.55 36.88N–.06 143.24E–.07 25 4.2b 45 2-153
ISCJB III 14 01 44 09.5–.41 36.87N–.04 143.21E–.04 25 4.2b ¶16409292
JMA III 14 01 44 10.8–.30 36.90N 143.18E 46 4.3
IDC III 14 01 44 12.0–6.8 36.82N 143.33E 29–49 4.3,4.2
NEIC III 14 01 44 12.8–1.2 36.80N 143.34E 37–11 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.7km az=155.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=18.8km s-min=14.3km az=105.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.5km az=103.0.
IDC III 14 01 45 04.2–1.8 39.81N 144.35E 0 5.0L,4.2
¶17195040
IDC Error ellipse: s-maj=42.6km s-min=29.3km az=165.0.
ISC III 14 01 47 22.7–.76 37.74N–.05 143.64E–.07 35 4.0b 30 2-76
NIED III 14 01 47 00 37.70N 143.70E 14 4.3W ¶17195041
JMA III 14 01 47 21.1–.40 37.72N 143.69E 63 4.6
ISCJB III 14 01 47 21.1–.59 37.69N–.04 143.61E–.05 33 3.9b
IDC III 14 01 47 24.3–.70 37.60N 144.39E 32–4 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ79.00000°,λ177.00000°. NP2:ϕ_e253.00000°,δ87.00000°,λ11.00000°. $M_0$2.66000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=38.8.
IDC Error ellipse: s-maj=19.2km s-min=14.9km az=110.0.
ISC III 14 01 56 15.3–.54 37.61N–.05 142.44E–.06 19–1 4.0b 52 1-146
ISCJB III 14 01 56 14.5–1.9 37.59N–.04 142.54E–.05 28–14 4.0b ¶16409293
JMA III 14 01 56 14.4–.30 37.67N 142.32E 4–4 4.1
IDC III 14 01 56 16.2–.53 37.60N 142.50E 24–3 4.0,4.0
NEIC III 14 01 56 17.8–1.2 37.63N 142.59E 37–11 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=6.8km az=16.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=12.1km az=85.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.5km az=82.0.
ISC III 14 01 57 52.4–.62 36.61N–.03 142.44E–.04 19–3 5.1s,5.0b 564 1-154
NIED III 14 01 57 00 36.60N 142.40E 17 5.0W,5.0b ¶16311625
ISCJB III 14 01 57 49.2–.91 36.65N–.03 142.47E–.02 5–5 5.1s,5.0b
IDC III 14 01 57 49.8–.42 36.58N 142.49E 0 4.9s,4.9
JMA III 14 01 57 51.9–.50 36.63N 142.41E 18 5.2,4.9
BJI III 14 01 57 51.6 36.72N 142.10E 8 5.4b,5.2s
MOS III 14 01 57 53.9–.95 36.77N 142.43E 33 5.2b,5.2s
NEIC III 14 01 57 55.0–.14 36.64N 142.40E 35 5.1b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ34.00000°,λ99.00000°. NP2:ϕ_e216.00000°,δ56.00000°,λ84.00000°. $M_0$3.63000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=160.7.
IDC Error ellipse: s-maj=12.2km s-min=10.7km az=92.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=108.6.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=155.0.
ISC III 14 02 04 35.1–.47 39.58N–.06 143.53E–.06 11 4.6b 95 2-145
JMA III 14 02 04 30.8–.40 39.54N 143.81E 2 5.1 ¶16331063
ISCJB III 14 02 04 33.3–.34 39.54N–.04 143.57E–.06 11 4.5b
NEIC III 14 02 04 37.6–1.8 39.54N 143.50E 28–12 4.6b
IDC III 14 02 04 39.0–3.0 39.57N 143.51E 36–24 4.4,4.2
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=33.6.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.6km az=129.0.
IDC Error ellipse: s-maj=14.2km s-min=11.9km az=136.0.
ISC III 14 02 05 00.9–.43 40.29N–.07 143.69E–.07 16 5.0b 288 2-154
IDC III 14 02 04 58.2–.49 40.28N 143.82E 0 4.8,4.7 ¶16409296
ISCJB III 14 02 04 59.6–.28 40.29N–.04 143.73E–.05 16 4.9b,4.5s
MOS III 14 02 05 00.3–.88 40.40N 143.75E 20 5.3b,4.5s
NEIC III 14 02 05 02.3–1.8 40.30N 143.69E 26–12 5.0b,4.5s
GCMT III 14 02 05 02.3–.30 40.44N 143.99E 15 5.2W,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.9km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.7km az=143.8.
MOS Error ellipse: s-maj=8.9km s-min=5.2km az=103.2.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.9km az=133.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c30; s91,c157; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.05±.10 $M_{\theta\theta}$-0.16±.09; $M_{\phi\phi}$-2.89±.08; $M_{r\theta}$1.72±.38; $M_{\theta\phi}$-0.74±.07; $M_{\phi r}$6.64±.31; Best double couple: NP1:ϕ_s14.00000°,δ78.00000°,λ90.00000°. NP2:ϕ_s194.00000°,δ12.00000°,λ89.00000°. Principal axes: T 7.4980,Plg57.0000°,Azm285.0000°; N 0.0300,Plg0.0000°,Azm194.0000°; P -7.5260,Plg33.0000°,Azm104.0000° $M_0$7.51200×10^{16}
ISC III 14 02 10 54.4–1.2 37.7N–.20 143.2E–.20 24 3.8b 6 11-69
IDC III 14 02 10 50.7–1.2 37.63N 143.24E 0 4.0,3.8 ¶17195043
ISCJB III 14 02 10 52.2–1.0 37.6N–.10 143.1E–.30 24 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 02 16 55.6–2.9 36.53N–.05 142.20E–.07 25–20 4.0b 42 1-146
IDC III 14 02 16 51.8–.66 36.53N 142.17E 0 4.1L,4.1 ¶16409297
JMA III 14 02 16 53.2–.30 36.63N 142.30E 22 4.2,4.1
NEIC III 14 02 16 54.7–3.0 36.50N 142.31E 20–21 4.4b,4.1
ISCJB III 14 02 16 55.5–.96 36.50N–.04 142.24E–.07 39–8 4.0b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 14 02 24 05.7–1.5 37.22N 142.73E 0 3.8,3.7
¶602660186
IDC Error ellipse: s-maj=51.0km s-min=26.1km az=56.0.
ISC III 14 02 25 47.9–.86 38.5N–.20 144.8E–.10 29 3.8b 18 11-118
IDC III 14 02 25 43.4–.71 38.47N 144.77E 0 4.1,3.9 ¶17195046
ISCJB III 14 02 25 46.0–.66 38.4N–.10 144.7E–.10 29 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 02 29 58.8–.57 36.77N–.06 143.36E–.08 35 4.1b 32 4-145
IDC III 14 02 29 54.4–.58 36.91N 143.56E 0 4.2,4.1 ¶16410973
ISCJB III 14 02 29 57.1–.46 36.81N–.05 143.31E–.07 33 4.1b,4.1
NEIC III 14 02 29 58.9–.57 36.94N 143.40E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=14.2km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.7km az=40.7.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=11.1km az=114.0.
ISC III 14 02 31 22.9–.89 36.6N–.20 142.40E–.10 15 3.8b 11 3-146
IDC III 14 02 31 20.6–.84 36.68N 142.48E 0 4.1,3.8 ¶17195047
ISCJB III 14 02 31 21.1–.70 36.6N–.10 142.37E–.08 15 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 02 45 38.7–.94 37.7N–.10 144.2E–.10 35 3.5b 10 5-76
IDC III 14 02 45 34.0–1.1 37.81N 144.25E 0 3.8,3.6 ¶17195049
ISCJB III 14 02 45 36.9–.80 37.8N–.10 144.1E–.20 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 02 51 07.6–.40 36.58N 142.07E 35 3.2
¶603049743
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 14 02 51 40.5–1.3 37.5N–.10 142.9E–.20 24 3.7b 9 5-49
IDC III 14 02 51 37.0–1.9 37.43N 142.84E 0 3.8,3.8 ¶602660139
ISCJB III 14 02 51 38.9–1.2 37.46N–.08 142.8E–.20 24 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 03 02 24.8–.66 38.37N–.07 144.5E–.10 29 4.2b 34 6-87
NEIC III 14 03 02 21.0–3.6 38.37N 144.46E 2–22 4.6b ¶16410977
IDC III 14 03 02 20.5–.87 38.35N 144.48E 0 4.4,4.2
ISCJB III 14 03 02 22.6–.54 38.25N–.06 144.31E–.09 29 4.2b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 03 10 00.4–.45 36.19N–.06 142.37E–.06 18 4.7b 95 1-152
NIED III 14 03 09 00 36.30N 142.70E 17 4.5W ¶16407524
JMA III 14 03 09 54.7–.60 36.31N 142.69E 16 4.8
NEIC III 14 03 09 55.4–.38 37.34N 139.15E 35 4.8b
ISCJB III 14 03 09 58.4–.25 36.24N–.04 142.45E–.05 18 4.6b
IDC III 14 03 09 58.1–.54 36.23N 142.35E 0 4.6,4.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ52.00000°,λ49.00000°. NP2:ϕ_s259.00000°,δ53.00000°,λ130.00000°. $M_0$5.96000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=17.9km s-min=8.7km az=119.0. Recorded [3 JMA] in Gumma.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=4.2km az=142.2.
IDC Error ellipse: s-maj=15.7km s-min=14.2km az=113.0.
ISC III 14 03 15 52.3–.44 36.22N–.03 142.16E–.03 31–2 5.5b,5.1s 1262 1-165
NIED III 14 03 15 00 36.40N 141.70E 5 5.3W,5.1s ¶16311629
IDC III 14 03 15 48.1–.39 36.31N 142.19E 0 4.9s,4.9
BJI III 14 03 15 48.4 36.30N 142.10E 16 5.5s,5.4b
ISCJB III 14 03 15 49.6–.78 36.27N–.02 142.15E–.02 20–5 5.4b,5.1s
GCMT III 14 03 15 50.5–.20 36.40N 142.33E 12 5.3W,5.1s
NEIC III 14 03 15 50.5–.11 36.28N 142.08E 16 5.7b,5.4W
MOS III 14 03 15 52.7–.91 36.53N 142.10E 33 5.8b,5.1s
JMA III 14 03 15 56.2–.30 36.35N 141.65E 30–4 5.5,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ37.00000°,λ134.00000°. NP2:ϕ_e30.00000°,δ65.00000°,λ63.00000°. $M_0$9.26000×10^{16}

IDC Error ellipse: s-maj=11.3km s-min=10.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=156.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s67,c120; s97,c200;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.85±.02 $M_{\theta\theta}$-0.53±.02; $M_{\phi\phi}$-0.32±.02; $M_{r\theta}$-0.21±.05; $M_{\theta\phi}$-0.73±.01; $M_{\phi r}$0.69±.05; Best double couple: NP1: ϕ_s19.00000°,δ62.00000°,λ53.00000°. NP2:ϕ_s257.00000°,δ45.00000°,λ138.00000°. Principal axes: T 1.3130,Plg56.0000°,Azm239.0000°; N -0.1000,Plg32.0000°,Azm39.0000° ; P -1.2130,Plg9.0000°,Azm135.0000° $M_0$1.26300×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=143.0. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}1.01 $M_{\theta\theta}$-0.27 $M_{\phi\phi}$-0.73 $M_{r\theta}$0.13 $M_{\theta\phi}$-1.08 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s235.00000°,δ39.00000°,λ113.00000°. NP2:ϕ_s26.00000° ,δ54.00000°,λ72.00000°. Principal axes: T 1.0900,Plg74.0000°,Azm246.0000° ; N 0.5700,Plg14.0000°,Azm36.0000°; P -1.6600,Plg8.0000°,Azm129.0000° $M_0$1.50000×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=110.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**14 03 18 46.3–.50**	**39.26N–.04**	**144.43E–.04**	**28–2**	**5.3b,5.3s**	**903**	**2-158**	
IDC	III	14 03 18 41.8–.47	39.13N	144.43E	0	5.0,4.9			¶16477713
ISCJB	III	14 03 18 42.0–.89	39.21N–.03	144.40E–.02	9–5	5.3s,5.2b			
MOS	III	14 03 18 43.8–.96	39.13N	144.44E	24	5.6b,5.2b			
JMA	III	14 03 18 44.3–.40	39.29N	144.44E	47	5.2,5.2b			
BJI	III	14 03 18 45.1	39.42N	144.40E	28	5.4b,5.4s			
GCMT	III	14 03 18 46.3–.30	39.45N	144.51E	18–1	5.2W,5.4s			
NEIC	III	14 03 18 46.3–1.3	39.16N	144.40E	30–9	5.4b,5.4s			

ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.0km az=153.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=167.7.
MOS Error ellipse: s-maj=7.3km s-min=5.1km az=100.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c32; s77,c106; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.70±.04 $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$0.62±.03; $M_{r\theta}$-0.04±.08; $M_{\theta\phi}$-0.04±.02; $M_{\phi r}$-0.58±.07; Best double couple: NP1:ϕ_s1.00000°,δ66.00000° ,λ-86.00000°. NP2:ϕ_s171.00000°,δ25.00000°,λ-99.00000°. Principal axes: T 0.8360,Plg20.0000°,Azm88.0000°; N 0.0870,Plg4.0000°,Azm179.0000° ; P -0.9230,Plg69.0000°,Azm278.0000° $M_0$0.88000×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.1km az=144.0.

ISC	**III**	**14 03 24 42.5–.58**	**37.77N–.06**	**142.65E–.07**	**14**	**4.5b**	**56**	**2-145**	
NIED	III	14 03 24 00	37.90N	142.50E	11	4.5W			¶16424474
IDC	III	14 03 24 40.7–.69	37.80N	142.69E	0	4.5,4.4			
ISCJB	III	14 03 24 40.7–.43	37.75N–.04	142.74E–.05	14	4.5b,4.4			
NEIC	III	14 03 24 42.9–2.8	37.83N	142.66E	14–17	4.6b,4.4			
JMA	III	14 03 24 42.9–.40	37.92N	142.45E	0	4.6,4.4			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ19.00000°,λ-154.00000°. NP2:ϕ_s69.00000°,δ82.00000°,λ-73.00000°. $M_0$6.73000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=16.0km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=5.1km az=136.8.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=130.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**III**	**14 03 27 54.1–.98**	**36.57N–.05**	**142.20E–.08**	**19**	**3.8b**	**21**	**1-83**	
IDC	III	14 03 27 50.7–1.1	36.53N	142.29E	0	4.7L,4.0			¶600544862
ISCJB	III	14 03 27 52.2–.79	36.53N–.05	142.31E–.08	19	3.8b,4.0			
JMA	III	14 03 27 52.7–.30	36.61N	142.33E	26	4.2,4.0			

ISC Event type ke.
IDC Error ellipse: s-maj=32.2km s-min=21.3km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.7km az=159.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

IDC	**III**	**14 03 42 29.5–1.3**	**38.67N**	**144.19E**	**0**	**3.8,3.8**			
									¶17195056

IDC Error ellipse: s-maj=47.9km s-min=20.4km az=81.0.

ISC	**III**	**14 03 46 50.6–1.3**	**38.5N–.20**	**144.6E–.10**	**29**	**3.8b**	**11**	**5-118**	
IDC	III	14 03 46 45.7–2.1	38.38N	144.57E	0	4.0,3.8			¶17195057
ISCJB	III	14 03 46 49.1–1.2	38.5N–.20	144.5E–.10	29	3.8b,3.8			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**14 03 50 01.2–.64**	**36.16N–.05**	**142.18E–.07**	**23**	**3.9b**	**38**	**1-90**	
NIED	III	14 03 49 00	36.30N	142.30E	8	4.1W			¶16409299
JMA	III	14 03 49 57.8–.50	36.29N	142.31E	11	4.2			
IDC	III	14 03 49 57.9–.69	36.15N	142.20E	0	4.1,4.0			
ISCJB	III	14 03 49 59.2–.49	36.13N–.04	142.25E–.06	23	4.0b,4.0			
NEIC	III	14 03 50 03.0–.35	36.10N	142.16E	35	4.3b,4.0			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ55.00000°,λ173.00000°. NP2:ϕ_s328.00000°,δ85.00000°,λ36.00000°. $M_0$1.62000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=15.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.6km az=17.7.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.8km az=144.0.

ISC	**III**	**14 03 56 36.2–.51**	**36.67N–.04**	**142.44E–.05**	**15**	**4.4b**	**74**	**1-146**	
NIED	III	14 03 56 00	36.70N	142.50E	17	4.2W			¶16392108
JMA	III	14 03 56 34.7–.30	36.72N	142.52E	15	4.5			
IDC	III	14 03 56 34.1–.72	36.67N	142.52E	0	4.4,4.2			
ISCJB	III	14 03 56 35.5–.28	36.70N–.04	142.46E–.03	15	4.4b,4.2			
NEIC	III	14 03 56 40.1–.36	36.75N	142.39E	35	4.5b,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ26.00000°,λ134.00000°. NP2:ϕ_s355.00000°,δ71.00000°,λ71.00000°. $M_0$2.17000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=18.8km s-min=13.7km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.6km az=158.3.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=5.6km az=156.0.

IDC	**III**	**14 04 09 28.6–.91**	**36.55N**	**143.25E**	**0**	**3.9,3.8**			
									¶602660086

IDC Error ellipse: s-maj=29.9km s-min=19.9km az=94.0.

IDC	**III**	**14 04 18 16.2–7.3**	**38.11N**	**143.19E**	**0**	**3.9,3.8**			
									¶602660077

IDC Error ellipse: s-maj=263.3km s-min=23.4km az=64.0.

IDC	**III**	**14 04 18 56.0–1.5**	**38.23N**	**143.35E**	**0**	**3.9,3.7**			
									¶17195066

IDC Error ellipse: s-maj=47.2km s-min=22.4km az=76.0.

ISC	**III**	**14 04 20 09.4–.62**	**36.72N–.08**	**144.61E–.09**	**35**	**4.3b**	**45**	**5-88**	
IDC	III	14 04 20 04.6–.67	36.78N	144.67E	0	4.3,4.2			¶16424476
NEIC	III	14 04 20 05.8–.36	36.74N	144.68E	10	4.5b,4.2			
ISCJB	III	14 04 20 07.6–.51	36.71N–.06	144.55E–.07	33	4.2b,3.7s			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**14 04 26 19.5–.51**	**38.46N–.06**	**144.69E–.06**	**29**	**4.5b,3.3s**	**102**	**3-153**	
IDC	III	14 04 26 14.5–.52	38.35N	144.79E	0	4.4,4.2			¶16314276
ISCJB	III	14 04 26 18.5–.28	38.50N–.04	144.59E–.03	29	4.3b,3.4s			
NEIC	III	14 04 26 18.6–2.6	38.35N	144.66E	22–18	4.5b,3.4s			
JMA	III	14 04 26 19.5–.50	38.55N	144.64E	44	4.8,3.4s			

ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=13.7km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=12.5.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.0km az=147.0.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.

ISC	**III**	**14 04 34 42.4–.86**	**39.72N–.09**	**144.2E–.10**	**23**	**4.0b**	**23**	**2-87**	
IDC	III	14 04 34 38.8–.83	39.73N	144.44E	0	4.1,4.0			¶16409300
ISCJB	III	14 04 34 40.4–.64	39.63N–.07	144.2E–.10	23	4.0b,4.0			
NEIC	III	14 04 34 44.0–.68	39.71N	144.21E	35	4.4b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=17.8km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=10.1km az=10.5.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.7km az=91.0.

ISC	**III**	**14 04 38 01.1–.64**	**38.37N–.06**	**144.15E–.06**	**14**	**4.1b**	**53**	**2-118**	
IDC	III	14 04 37 58.3–.65	38.16N	144.21E	0	4.7s,4.7			¶16424477
ISCJB	III	14 04 37 59.6–.46	38.36N–.04	144.11E–.05	14	4.7s,4.0b			
JMA	III	14 04 38 02.8–.40	38.38N	144.07E	56	4.6,4.0b			
NEIC	III	14 04 38 02.7–3.6	38.23N	144.23E	29–25	4.2b,4.0b			

ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=16.2km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.1km az=179.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=9.4km az=123.0.

ISC	**III**	**14 04 48 27.3–.47**	**36.71N–.07**	**143.54E–.07**	**35**	**4.7b**	**107**	**4-145**	
IDC	III	14 04 48 22.1–.54	36.76N	143.60E	0	4.6,4.5			¶16331064
NEIC	III	14 04 48 23.5–.32	36.71N	143.62E	10	4.9b,4.5			
ISCJB	III	14 04 48 26.1–.34	36.68N–.05	143.46E–.05	33	4.6b,4.5			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**14 04 49 26.4–.94**	**36.7N–.10**	**143.9E–.10**	**35**	**4.4b**	**10**	**5-89**	
IDC	III	14 04 49 21.3–.96	36.83N	144.04E	0	4.8L,4.5			¶17195071
ISCJB	III	14 04 49 24.3–.83	36.68N–.09	143.9E–.20	33	4.4b,4.5			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**14 04 56 27.3–.53**	**36.78N–.07**	**143.43E–.07**	**35**	**4.5b**	**68**	**2-145**	
NIED	III	14 04 56 00	36.80N	143.30E	5	4.2W			¶600544941
NEIC	III	14 04 56 22.9–4.8	36.76N	143.55E	4–30	4.7b			
IDC	III	14 04 56 22.0–.62	36.82N	143.61E	0	4.3,4.2			
JMA	III	14 04 56 25.2–.20	36.78N	143.33E	28	4.4,4.2			
ISCJB	III	14 04 56 25.5–.34	36.70N–.05	143.39E–.05	33	4.4b,4.2			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ36.00000°,λ-74.00000°. NP2:ϕ_s203.00000°,δ55.00000°,λ-102.00000°. $M_0$2.60000×10^{15}
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**14 04 57 55.1–.64**	**36.69N–.05**	**143.53E–.04**	**23–4**	**5.0b,4.5s**	**789**	**4-145**	
IDC	III	14 04 57 51.6–.50	36.75N	143.59E	0	4.8,4.7			¶17195072
BJI	III	14 04 57 53.2	36.99N	143.39E	14	5.1b,4.8b			
NEIC	III	14 04 57 54.3–2.4	36.74N	143.46E	17–14	5.0b,4.8b			
ISCJB	III	14 04 57 54.2–.15	36.73N–.04	143.51E–.02	25	4.9b,4.5s			
MOS	III	14 04 57 56.4–.93	36.95N	143.48E	33	5.2b,4.5s			

ISC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=11.4km az=124.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=2.3km az=167.2.
MOS Error ellipse: s-maj=6.9km s-min=4.7km az=111.7.

ISC	**III**	**14 04 59 44.9–.55**	**36.57N–.06**	**143.65E–.09**	**35**	**4.4b**	**39**	**4-145**	
IDC	III	14 04 59 40.4–.60	36.72N	143.76E	0	4.6,4.4			¶16424478
NEIC	III	14 04 59 42.0–.50	36.80N	143.72E	10	4.5b,4.4			
ISCJB	III	14 04 59 43.3–.46	36.60N–.05	143.56E–.08	33	4.4b,3.8s			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**14 05 03 57.3–.96**	**36.56N–.08**	**142.4E–.10**	**15**	**3.8b**	**14**	**3-84**	
IDC	III	14 05 03 53.2–1.1	36.73N	142.98E	0	4.1L,4.0			¶17195074

ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=20.2km az=87.0.

ISC	**III**	**14 05 09 37.1–.48**	**39.62N–.05**	**143.59E–.06**	**11**	**4.4b**	**63**	**2-150**	
IDC	III	14 05 09 34.8–.63	39.54N	143.58E	0	4.3,4.2			¶602660027
ISCJB	III	14 05 09 35.0–.32	39.53N–.03	143.66E–.05	11	4.3b,4.2			
JMA	III	14 05 09 37.2–.40	39.76N	143.40E	1	4.6,4.2			
NEIC	III	14 05 09 39.9–2.1	39.53N	143.63E	32–16	4.5b,4.2			

ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=13.8km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=34.6.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.3km az=124.0.

ISC	**III**	**14 05 11 06.6–.63**	**39.19N–.08**	**143.72E–.08**	**20**	**4.3b**	**48**	**3-117**	
ISCJB	III	14 05 11 05.2–.44	39.23N–.06	143.65E–.07	20	4.2b			¶16461682
IDC	III	14 05 11 08.0–.84	39.25N	143.65E	28–4	4.2,4.2			
NEIC	III	14 05 11 09.5–.98	39.28N	143.58E	38–8	4.3b,4.2			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=5.8km az=142.3.
IDC Error ellipse: s-maj=17.1km s-min=13.4km az=148.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.6km az=132.0.

ISC	**III**	**14 05 17 19.9–.95**	**36.29N–.10**	**143.8E–.10**	**35**	**3.8b**	**10**	**5-89**	
IDC	III	14 05 17 15.0–1.1	36.44N	143.86E	0	4.1L,4.0			¶17195077
ISCJB	III	14 05 17 17.9–.82	36.17N–.07	143.8E–.10	33	3.8b,4.0			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**14 05 19 06.2–.39**	**37.03N–.05**	**143.31E–.05**	**35**	**4.6b**	**129**	**2-153**	
IDC	III	14 05 19 00.5–.45	37.04N	143.41E	0	4.5,4.5			¶602660020
NEIC	III	14 05 19 02.8–.24	37.05N	143.31E	10	4.8b,4.5			
ISCJB	III	14 05 19 04.8–.23	37.04N–.04	143.23E–.03	33	4.6b,3.5s			
JMA	III	14 05 19 04.9–.30	37.02N	143.21E	35	4.6,3.5s			

ISC Event type ke.
IDC Error ellipse: s-maj=14.1km s-min=12.1km az=101.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.8km az=144.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.9km az=160.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**III**	**14 05 22 59.9–.54**	**37.50N–.05**	**142.58E–.06**	**21**	**4.2b**	**47**	**1-146**	
JMA	III	14 05 22 56.7–.60	37.53N	142.59E	0	4.8			¶16461684
IDC	III	14 05 22 56.5–.61	37.47N	142.64E	0	4.3,4.2			
ISCJB	III	14 05 22 58.1–.40	37.49N–.04	142.74E–.05	21	4.2b,4.2			
NEIC	III	14 05 23 01.3–2.5	37.55N	142.74E	30–18	4.6b,4.2			

ISC Event type se.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=14.8km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.7km az=137.9.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.3km az=113.0.

ISC	**III**	**14 05 24 04.1–.92**	**38.39N–.08**	**144.9E–.10**	**43**	**3.9b**	**20**	**4-75**	
IDC	III	14 05 23 58.0–.89	38.39N	145.01E	0	4.1,3.9			¶16477740
ISCJB	III	14 05 24 02.4–.67	38.38N–.06	144.8E–.10	43	3.9b,3.9			
NEIC	III	14 05 24 03.4–.71	38.40N	144.93E	35	4.4b,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=20.5km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=8.4km az=171.7.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=12.3km az=92.0.

ISC	**III**	**14 05 27 02.8–.50**	**35.89N–.05**	**142.21E–.06**	**23**	**4.0b**	**55**	**2-147**	
IDC	III	14 05 27 04.2–.55	35.92N	142.14E	29–2	3.9,3.8			¶17195078
NEIC	III	14 05 27 12.0–1.0	35.28N	142.29E	35	4.7b,3.8			
JMA	III	14 05 27 18.1–.30	36.77N	141.88E	37–4	4.5,3.8			

ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.9km az=75.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=13.9km az=122.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

JMA	**III**	**14 05 27 03.3–.30**	**36.10N**	**142.05E**	**65**	**4.3**			
									¶16477741

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**14 05 31 47.4–.94**	**36.6N–.10**	**143.0E–.20**	**29**	**3.7b**	**9**	**4-89**	
IDC	III	14 05 31 42.9–.92	36.61N	143.08E	0	3.9,3.7			¶17195080
ISCJB	III	14 05 31 45.5–.81	36.5N–.10	143.0E–.20	29	3.6b,3.7			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**14 05 42 13.1–.41**	**39.85N–.05**	**143.64E–.06**	**6**	**4.8b,3.8s**	**204**	**2-144**	
NIED	III	14 05 42 00	39.90N	143.50E	11	4.8W,3.8s			¶16314279
IDC	III	14 05 42 11.6–.49	39.76N	143.68E	0	4.6,4.5			
ISCJB	III	14 05 42 11.8–.19	39.81N–.03	143.61E–.03	6	4.6b,3.8s			
NEIC	III	14 05 42 14.6–2.1	39.84N	143.57E	14–13	4.8b,3.8s			
JMA	III	14 05 42 14.3–.30	39.92N	143.53E	14	4.7,3.8s			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s150.00000°,δ39.00000°,λ33.00000°. NP2:ϕ_s33.00000°,δ70.00000°,λ124.00000°. $M_0$1.75000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.1km az=142.5.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=140.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC III 14 05 49 10.7–.62 39.89N–.06 143.77E–.09 6 4.2b 44 2-87
ISCJB III 14 05 49 08.8–.45 39.84N–.04 143.75E–.08 6 4.1b **¶16461686**
IDC III 14 05 49 09.8–.68 39.89N 143.76E 0 4.1,4.0
NEIC III 14 05 49 11.1–3.1 39.92N 143.76E 8–19 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.7km az=22.9.
IDC Error ellipse: s-maj=17.0km s-min=14.2km az=152.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.6km az=114.0.
ISC III 14 05 50 38.3–.46 36.39N–.06 143.24E–.07 29 4.4b 76 4-146
IDC III 14 05 50 34.5–.54 36.56N 143.25E 0 4.5,4.4 **¶16461687**
ISCJB III 14 05 50 36.8–.32 36.39N–.04 143.17E–.05 29 4.3b,4.4
NEIC III 14 05 50 39.4–.28 36.47N 143.25E 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.7km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.3km az=42.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.8km az=125.0.
ISC III 14 05 53 20.6–2.7 36.34N–.04 142.15E–.05 1–17 4.8b,3.7s 287 1-147
NIED III 14 05 53 00 36.40N 142.20E 8 4.8W,3.7s **¶602660784**
IDC III 14 05 53 20.2–.50 36.34N 142.14E 0 4.5,4.4
ISCJB III 14 05 53 22.8–1.5 36.36N–.03 142.08E–.04 22–10 4.6b,3.5s
JMA III 14 05 53 22.7–.40 36.41N 142.21E 66 4.9,3.5s
NEIC III 14 05 53 23.9–2.6 36.39N 142.03E 18–16 4.8b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ37.00000°,λ90.00000°. NP2:ϕ_s303.00000°,δ53.00000°,λ90.00000°. $M_0$1.68000×10^{16}
IDC Error ellipse: s-maj=13.3km s-min=11.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.7km az=40.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=147.0.
ISC III 14 06 02 42.9–.53 38.30N–.06 144.67E–.06 29 4.6b 145 3-153
NIED III 14 06 02 00 38.10N 144.90E 5 4.7W **¶16314281**
JMA III 14 06 02 37.4–.40 38.14N 144.89E 50 4.7
IDC III 14 06 02 37.0–.45 38.00N 144.82E 0 4.5,4.4
ISCJB III 14 06 02 40.6–.21 38.14N–.03 144.49E–.03 29 4.5b,4.4
NEIC III 14 06 02 42.8–.22 38.05N 144.58E 35 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ26.00000°,λ-79.00000°. NP2:ϕ_s197.00000°,δ64.00000°,λ-95.00000°. $M_0$1.45000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.2km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=165.3.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.5km az=161.0.
IDC III 14 06 03 09.6–1.0 39.34N 144.79E 0 4.4,4.2
¶17195084
IDC Error ellipse: s-maj=51.5km s-min=21.1km az=92.0.
ISC III 14 06 07 30.1–.59 36.75N–.08 143.76E–.08 35 3.9b 36 4-145
IDC III 14 06 07 25.1–.67 36.79N 143.79E 0 4.0,3.9 **¶602660778**
ISCJB III 14 06 07 27.8–.44 36.69N–.05 143.73E–.06 33 3.9b,3.9
NEIC III 14 06 07 30.1–.39 36.74N 143.74E 35 4.5b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=14.7km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.1km az=43.2.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.4km az=126.0.
ISC III 14 06 12 36.7–.32 37.78N–.03 142.50E–.02 19–1 6.0b,6.0s 2153 2-161
NIED III 14 06 12 00 37.80N 142.60E 17 6.0W,6.0s **¶602443509**
BJI III 14 06 12 30.2 37.80N 142.75E 10 6.5s,6.4
ISCJB III 14 06 12 32.5–.65 37.76N–.02 142.52E–.01 2–4 6.0s,6.0b
IDC III 14 06 12 33.7–.29 37.76N 142.53E 0 6.1s,6.0
JMA III 14 06 12 33.9–.30 37.80N 142.59E 7 6.5,6.0
NEIC III 14 06 12 36.0–.00 37.77N 143.02E 15 6.5,6.0
GCMT III 14 06 12 36.1–.10 37.77N 142.62E 20–0 6.0W,6.0
NEIC III 14 06 12 36.1–.06 37.79N 142.46E 14 6.3,6.0W
MOS III 14 06 12 37.7–.80 37.89N 142.50E 33 6.2b,6.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ40.00000°,λ-177.00000°. NP2:ϕ_s47.00000°,δ88.00000°,λ-50.00000°. $M_0$1.03000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=160.9.
IDC Error ellipse: s-maj=10.4km s-min=8.4km az=90.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ79.00000°,λ-71.00000°. NP2:ϕ_s153.00000°,δ21.00000°,λ-149.00000°. Principal axes:
T 1.2300,Plg31.0000°,Azm109.0000°; N -0.1100,Plg18.0000°,Azm210.0000°
; P -1.1200,Plg52.0000°,Azm326.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c270; s137,c359;Duration: 2^{s}5 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.54±.01 $M_{\theta\theta}$-0.34±.01; $M_{\phi\phi}$0.87±.01; $M_{r\theta}$-0.69±.02; $M_{\theta\phi}$0.13±.01; $M_{\phi r}$-0.81±.02; Best double couple: NP1:ϕ_s36.00000°,δ76.00000°,λ-66.00000°. NP2:ϕ_s153.00000°,δ28.00000°,λ-149.00000°. Principal axes:
T 1.3490,Plg27.0000°,Azm107.0000°; N -0.0640,Plg23.0000°,Azm209.0000°
; P -1.2850,Plg53.0000°,Azm334.0000° $M_0$1.31700×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=138.0. Recorded [4 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ79.00000°,λ-69.00000°. NP2:ϕ_s143.00000°,δ24.00000°,λ-152.00000°. Principal axes:
T 1.0700,Plg31.0000°,Azm99.0000°; N 0.0300,Plg21.0000°,Azm202.0000°
; P -1.1000,Plg51.0000°,Azm321.0000° Moment Tensor Solution.
Broadband fault plane solution: P waves. NP1:ϕ_s225.00000°,δ5.00000°,λ-90.00000°. NP2:ϕ_s45.00000°,δ85.00000°,λ-90.00000°. Principal axes: T Plg40.0000°,Azm135.0000°
; N Plg0.0000°,Azm0.0000°; P Plg50.0000°,Azm315.0000°
MOS Error ellipse: s-maj=5.8km s-min=3.8km az=106.2.
ISC III 14 06 17 49.0–.45 37.67N–.05 142.53E–.06 21 5.0b 84 2-151
ISCJB III 14 06 17 47.1–.32 37.69N–.03 142.62E–.04 21 5.5s,4.8b **¶602660755**
JMA III 14 06 17 47.6–.30 37.72N 142.43E 4 5.3,4.8b
NEIC III 14 06 17 49.7–1.6 37.69N 142.60E 25–11 4.7b,4.8b
IDC III 14 06 17 51.5–2.9 37.70N 142.54E 38–24 4.8,4.6
BJI III 14 06 18 24.9 37.90N 138.30E 40 5.6,5.6b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=39.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.2km az=118.0.
IDC Error ellipse: s-maj=15.1km s-min=12.8km az=143.0.
JMA III 14 06 21 01.7–.50 37.80N 142.43E 5–5 4.3
¶602660754
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 14 06 27 25.2–.55 36.70N–.03 142.03E–.04 25–3 5.3s,5.2b 471 1-146
NIED III 14 06 27 00 36.70N 142.30E 14 5.2W,5.2b **¶16477752**
JMA III 14 06 27 21.5–.40 36.73N 142.31E 20 5.3,5.2b
IDC III 14 06 27 26.4–2.5 36.61N 142.16E 40–22 5.0,5.0s
BJI III 14 06 27 26.1 36.71N 141.77E 35 5.6b,5.5s
ISCJB III 14 06 27 27.4–.56 36.80N–.03 141.89E–.03 44–4 5.3s,5.1b
GCMT III 14 06 27 27.3–.60 36.50N 142.06E 36–1 5.2W,5.1b
MOS III 14 06 27 27.5–.93 37.09N 141.96E 37 5.4b,5.1b
NEIC III 14 06 27 27.3–.26 36.63N 141.84E 35 5.1b,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ18.00000°,λ90.00000°. NP2:ϕ_s32.00000°,δ72.00000°,λ90.00000°. $M_0$6.71000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=12.8km s-min=11.3km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.6km az=142.9.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s4,c5; s74,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.44±.82 $M_{\theta\theta}$-1.06±.46; $M_{\phi\phi}$-5.38±.45; $M_{r\theta}$2.23±.30; $M_{\theta\phi}$-2.30±.18; $M_{\phi r}$1.46±.24; Best double couple: NP1:ϕ_s35.00000°,δ56.00000°,λ103.00000°. NP2:ϕ_s192.00000°,δ36.00000°,λ71.00000°. Principal axes:
T 7.1070,Plg75.0000°,Azm344.0000°; N -0.3470,Plg11.0000°,Azm207.0000°
; P -6.7600,Plg10.0000°,Azm116.0000° $M_0$6.93400×10^{16}
MOS Error ellipse: s-maj=7.6km s-min=4.5km az=112.4.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=145.0.
ISC III 14 06 27 57.5–.88 37.1N–.20 142.2E–.10 19 4.8b 22 28-146
IDC III 14 06 27 54.4–.87 37.08N 142.26E 0 4.9,4.7 **¶602443499**
ISCJB III 14 06 27 55.9–.78 37.0N–.10 142.2E–.10 19 4.7b,4.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 06 41 28.0–1.9 37.68N–.04 142.63E–.06 0–11 4.4b 68 2-146
ISCJB III 14 06 41 27.1–1.4 37.66N–.03 142.86E–.04 8–9 4.4b **¶16461689**
IDC III 14 06 41 28.5–.67 37.68N 142.65E 0 4.4,4.3
JMA III 14 06 41 29.3–.40 37.81N 142.60E 0 4.8,4.3
NEIC III 14 06 41 33.2–.38 37.65N 142.63E 35 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.9km az=37.3.
IDC Error ellipse: s-maj=20.4km s-min=13.5km az=80.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.0km az=85.0.
ISC III 14 06 46 56.8–.72 37.90N–.04 142.93E–.04 25–4 5.3b,5.2s 1043 2-159
NIED III 14 06 46 00 37.90N 143.00E 11 5.1W,5.2s **¶16314284**
ISCJB III 14 06 46 53.9–1.0 37.90N–.02 142.98E–.02 14–6 5.2b,5.2s
BJI III 14 06 46 55.3 37.88N 142.83E 27 5.6b,5.4s
JMA III 14 06 46 55.5–.40 37.93N 143.02E 33 5.4,5.4s
MOS III 14 06 46 57.9–.81 38.16N 142.88E 33 5.5b,5.4s
IDC III 14 06 46 57.5–4.2 37.89N 142.98E 29–29 5.0,5.0
NEIC III 14 06 46 58.7–.40 37.91N 142.90E 35–3 5.3b,5.0
GCMT III 14 06 46 58.7–.40 38.05N 142.84E 17–1 5.1W,5.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_s193.00000°,δ47.00000°,λ-101.00000°. $M_0$4.32000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=165.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=103.3.
IDC Error ellipse: s-maj=11.5km s-min=10.1km az=106.0.
NEIC Event type se. Error ellipse: s-maj=3.2km s-min=2.1km az=149.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s78,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.92±.42 $M_{\theta\theta}$0.66±.24; $M_{\phi\phi}$4.27±.28; $M_{r\theta}$-0.48±.72; $M_{\theta\phi}$1.63±.12; $M_{\phi r}$-0.22±.56; Best double couple: NP1:ϕ_s25.00000°,δ47.00000°,λ-84.00000°. NP2:ϕ_s197.00000°,δ43.00000°,λ-96.00000°. Principal axes:
T 4.9110,Plg2.0000°,Azm111.0000°; N 0.0560,Plg4.0000°,Azm201.0000°
; P -4.9620,Plg85.0000°,Azm354.0000° $M_0$4.93700×10^{16}
ISC III 14 06 55 16.7–.84 37.52N–.10 142.77E–.10 24 4.3b 19 4-89
ISCJB III 14 06 55 15.2–.74 37.51N–.07 142.6E–.10 24 4.3b **¶16477756**
NEIC III 14 06 55 18.5–.63 37.52N 142.67E 35 4.7b
IDC III 14 06 55 19.8–5.3 37.45N 142.48E 44–48 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=10.7km az=6.6.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=9.3km az=105.0.
IDC Error ellipse: s-maj=35.8km s-min=19.1km az=79.0.
ISC III 14 07 00 13.6–.51 39.32N–.04 143.42E–.04 19–1 5.1s,4.9b 423 2-154
NIED III 14 07 00 00 39.20N 143.70E 20 4.7W,4.9b **¶16311650**
JMA III 14 07 00 10.9–.20 39.23N 143.71E 37 5.1,4.9b
IDC III 14 07 00 10.0–.49 39.19N 143.50E 0 4.8,4.7
ISCJB III 14 07 00 11.5–.94 39.38N–.02 143.40E–.03 11–5 5.0s,4.8b
BJI III 14 07 00 12.7 39.31N 143.09E 13 5.6b,5.2s
MOS III 14 07 00 13.0–.99 39.42N 143.39E 22 5.1b,5.2s
NEIC III 14 07 00 14.9–1.3 39.23N 143.39E 28–9 5.0b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ80.00000°,λ174.00000°. NP2:ϕ_s336.00000°,δ84.00000°,λ10.00000°. $M_0$1.42000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=12.1km az=132.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.9km az=143.9.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=101.9.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.1km az=147.0.
ISC III 14 07 03 27.1–2.5 39.86N–.04 143.64E–.05 9–15 5.0b,4.7s 315 2-144
NIED III 14 07 03 00 39.90N 143.70E 11 5.1W,4.7s **¶16314731**
ISCJB III 14 07 03 26.7–1.1 39.85N–.02 143.63E–.04 14–7 4.9b,4.8s
JMA III 14 07 03 27.8–.30 39.87N 143.66E 31 5.2,4.8s
MOS III 14 07 03 29.4–.99 39.81N 143.57E 33 5.3b,4.8s
GCMT III 14 07 03 30.8–.30 39.75N 143.95E 22–1 5.2W,4.8s
IDC III 14 07 03 30.6–3.8 39.74N 143.64E 32–28 4.7,4.7
NEIC III 14 07 03 30.8–1.6 39.75N 143.57E 34–11 5.0b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ37.00000°,λ29.00000°. NP2:ϕ_s41.00000°,δ73.00000°,λ123.00000°. $M_0$5.13000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.4km az=30.3.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=4.5km az=106.5.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c27; s88,c135; Duration: 1^{s}0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.75±.46 $M_{\theta\theta}$-1.32±.24; $M_{\phi\phi}$-4.42±.28; $M_{r\theta}$2.52±.37; $M_{\theta\phi}$-1.27±.11; $M_{\phi r}$5.47±.41; Best double couple: NP1:ϕ_s23.00000°,δ69.00000°,λ92.00000°. NP2:ϕ_s197.00000°,δ21.00000°,λ85.00000°. Principal axes:
T 8.4760,Plg66.0000°,Azm297.0000°; N -0.8840,Plg2.0000°,Azm203.0000°
; P -7.5820,Plg24.0000°,Azm112.0000° $M_0$8.02900×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=11.0km az=93.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=124.0.
IDC III 14 07 12 35.0–15 40.17N 144.32E 0 4.0,3.8
¶17195095
IDC Error ellipse: s-maj=570.2km s-min=27.9km az=66.0.
ISC III 14 07 13 56.7–1.1 36.07N–.07 142.1E–.10 35 4.1b 30 1-147
IDC III 14 07 13 51.2–.80 36.87N 142.80E 0 4.1,4.0 **¶600545028**
NEIC III 14 07 13 56.7–.53 36.89N 142.62E 35 4.3b,4.0
JMA III 14 07 13 58.7–.30 36.08N 141.86E 32 4.4,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=18.3km az=4.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=10.6km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 07 30 27.3–.58 37.96N–.05 142.57E–.06 14 4.0b 46 2-145
ISCJB III 14 07 30 25.1–.41 37.91N–.03 142.64E–.06 14 4.6s,4.0b **¶16461693**
JMA III 14 07 30 27.1–.60 38.20N 142.51E 0 4.5,4.0b
IDC III 14 07 30 30.5–3.0 37.91N 142.60E 40–27 4.3,4.3s
NEIC III 14 07 30 31.1–1.2 37.91N 142.68E 47–11 4.6b,4.3s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.1km az=13.5.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=15.1km az=96.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.0km az=110.0.
ISC III 14 07 38 29.7–.68 37.72N–.07 142.56E–.09 21 4.0b 27 4-151
ISCJB III 14 07 38 27.4–.49 37.71N–.04 142.74E–.09 21 4.0b **¶16477761**
NEIC III 14 07 38 32.8–.83 37.69N 142.62E 50–8 4.4b
IDC III 14 07 38 32.6–2.4 37.71N 142.49E 44–24 4.3L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=5.9km az=9.1.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.0km az=95.0.
IDC Error ellipse: s-maj=24.9km s-min=14.3km az=85.0.
ISC III 14 07 41 15.1–.51 37.48N–.05 142.63E–.06 21 4.3b 56 2-146
JMA III 14 07 41 12.3–.60 37.61N 142.74E 18 4.6 **¶16461695**
IDC III 14 07 41 12.2–.57 37.49N 142.62E 0 4.3,4.2
ISCJB III 14 07 41 13.4–.36 37.50N–.03 142.70E–.05 21 4.2b,4.2
NEIC III 14 07 41 17.5–.33 37.53N 142.72E 35 4.3b,4.2
ISC Event type se.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=13.3km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=31.8.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.2km az=124.0.
IDC III 14 07 51 35.0–1.1 38.12N 143.76E 0 4.0s,4.0
¶17195100
IDC Error ellipse: s-maj=49.6km s-min=23.1km az=100.0.
IDC III 14 07 54 03.4–1.3 39.69N 144.42E 0 3.8,3.6
¶17195101
IDC Error ellipse: s-maj=41.0km s-min=27.5km az=84.0.
ISC III 14 08 01 31.8–.90 37.5N–.10 143.5E–.10 35 3.8b 13 11-73
IDC III 14 08 01 26.6–.88 37.48N 143.53E 0 3.9,3.7 **¶17195103**
ISCJB III 14 08 01 29.5–.75 37.5N–.10 143.5E–.20 33 3.7b,3.7

ISC Event type ke.
ISCJB Event type ke.
ISC III 14 08 13 47.0–.87 37.7N–.10 144.63E–.10 35 3.9b 24 5-88
IDC III 14 08 13 39.1–.73 37.22N 144.68E 0 4.1,3.9 **¶16477772**
NEIC III 14 08 13 44.4–.53 37.16N 144.58E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=18.0km az=97.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=11.2km az=147.0.
ISC III 14 08 14 52.9–.62 37.25N–.08 143.61E–.09 35 4.0b 30 4-145
IDC III 14 08 14 47.7–.68 37.27N 143.79E 0 4.2,4.0 **¶16477774**
ISCJB III 14 08 14 50.8–.49 37.18N–.06 143.59E–.09 33 4.0b,4.0
NEIC III 14 08 14 53.0–.46 37.30N 143.64E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=16.6km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=6.0km az=30.2.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.5km az=124.0.
ISC III 14 08 18 58.6–3.1 36.41N–.04 142.53E–.06 32–22 3.9b 34 2-90
IDC III 14 08 18 53.3–1.1 36.42N 142.84E 0 4.2L,3.9 **¶16477775**
ISCJB III 14 08 18 57.2–1.0 36.43N–.04 142.58E–.07 34–9 3.8b,3.9
JMA III 14 08 18 58.3–.30 36.44N 142.47E 71 3.6,3.9
NEIC III 14 08 18 58.6–.67 36.42N 142.75E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=35.0km s-min=20.5km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.8km az=178.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=10.1km az=95.0.
ISC III 14 08 22 51.0–2.4 36.5N–.40 144.1E–.20 35 3.9b 9 9-89
IDC III 14 08 22 43.3–.94 36.17N 143.73E 0 4.4,4.4s **¶17195107**
ISC Event type ke.
IDC Error ellipse: s-maj=45.8km s-min=21.6km az=111.0.
ISC III 14 08 33 50.3–.70 36.43N–.08 143.5E–.10 35 3.7b 15 4-89
IDC III 14 08 33 45.8–1.1 36.56N 143.55E 0 4.3L,4.0 **¶17195112**
ISCJB III 14 08 33 47.9–.58 36.33N–.06 143.5E–.10 33 3.6b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 08 40 32.2–.84 37.20N–.07 142.47E–.08 35 3.8b 25 1-80
IDC III 14 08 40 27.1–1.4 37.25N 142.56E 0 4.3L,3.9 **¶600545123**
ISCJB III 14 08 40 30.1–.60 37.15N–.05 142.52E–.06 35 3.9b,3.9
JMA III 14 08 40 31.6–.40 37.40N 142.40E 58 4.2,3.9
NEIC III 14 08 40 32.1–.54 37.20N 142.52E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=44.3km s-min=20.2km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.2km az=39.2.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=9.2km az=93.0.
ISC III 14 08 43 48.9–.95 38.4N–.10 144.8E–.10 43 3.6b 10 6-72
IDC III 14 08 43 43.2–.95 38.43N 144.89E 0 4.1L,4.0 **¶17195113**
ISCJB III 14 08 43 47.0–.79 38.4N–.10 144.7E–.10 43 3.7b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 08 45 15.3–2.6 37.89N–.04 142.46E–.06 4–16 4.1b 60 2-151
IDC III 14 08 45 14.8–.69 37.90N 142.39E 0 4.1,4.0 **¶16461700**
ISCJB III 14 08 45 15.1–1.6 37.81N–.03 142.57E–.05 15–10 4.1b,4.0
JMA III 14 08 45 16.3–.40 37.94N 142.44E 1 4.4,4.0
NEIC III 14 08 45 17.0–2.6 37.88N 142.42E 14–16 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=14.5km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=179.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.6km az=104.0.
ISC III 14 08 51 35.2–1.0 36.2N–.10 143.2E–.20 35 3.9b 14 4-80
IDC III 14 08 51 29.9–2.7 36.24N 143.24E 0 4.0,3.9 **¶16477785**
ISCJB III 14 08 51 33.0–.87 36.09N–.08 143.1E–.20 33 4.0b,3.9
NEIC III 14 08 51 35.5–.98 36.19N 143.11E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=59.6km s-min=28.5km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=10.6km az=172.3.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=14.0km az=85.0.
ISC III 14 08 52 14.4–1.0 35.30N–.05 142.00E–.05 20–4 3.9b 39 1-147
IDC III 14 08 52 11.4–.71 35.31N 141.99E 0 4.1,3.9 **¶603049755**
ISCJB III 14 08 52 12.8–1.3 35.23N–.04 142.11E–.06 23–8 4.0b,3.9
JMA III 14 08 52 13.0–.60 35.30N 142.17E 28 3.3,3.9
NEIC III 14 08 52 16.4–.55 35.27N 141.86E 35 4.3b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=17.1km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.6km az=8.2.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.9km az=94.0.
ISC III 14 08 53 59.2–.68 38.51N–.09 144.54E–.09 29 4.1b 39 4-87
IDC III 14 08 53 54.3–.76 38.51N 144.61E 0 4.2,4.0 **¶16477789**
ISCJB III 14 08 53 57.2–.45 38.50N–.05 144.49E–.07 29 4.1b,4.0
NEIC III 14 08 53 58.3–2.9 38.49N 144.55E 22–20 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=3.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=7.3km az=37.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.9km az=134.0.
ISC III 14 08 55 35.8–1.3 36.18N–.06 142.2E–.10 23 3.9b 25 1-75
IDC III 14 08 55 30.8–2.5 36.22N 142.58E 0 3.9,3.9b **¶16477793**
ISCJB III 14 08 55 35.1–.95 36.30N–.05 142.17E–.09 23 3.8b,3.9b
JMA III 14 08 55 37.3–.40 36.30N 142.03E 33 3.5,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=50.5km s-min=27.0km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.5km az=176.1.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 14 08 56 05.0–.49 36.12N–.05 142.61E–.06 18 4.3b 55 4-146
IDC III 14 08 56 02.8–.61 36.22N 142.59E 0 4.4,4.2 **¶600545142**
ISCJB III 14 08 56 03.6–.37 36.18N–.04 142.55E–.05 18 4.2b,3.8s
NEIC III 14 08 56 07.7–.45 36.20N 142.55E 35 4.4b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=14.4km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.0km az=34.6.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=8.4km az=135.0.
ISC III 14 08 57 23.4–.77 38.43N–.08 144.3E–.10 29 4.3b 26 4-79
IDC III 14 08 57 18.9–1.1 38.45N 144.40E 0 4.3,4.2 **¶16477794**
ISCJB III 14 08 57 21.5–.56 38.44N–.06 144.24E–.10 29 4.2b,4.2
NEIC III 14 08 57 23.9–.57 38.37N 144.27E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=21.4km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=8.8km az=13.4.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.4km az=126.0.
ISC III 14 09 11 48.9–.96 37.8N–.20 144.2E–.10 35 3.9b 10 11-88
IDC III 14 09 11 43.5–.86 37.73N 144.19E 0 4.1,3.9b **¶17195120**
ISCJB III 14 09 11 46.6–.76 37.7N–.10 144.1E–.20 33 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 09 24 19.0–.71 38.5N–.10 144.80E–.09 43 4.5b 39 6-122
IDC III 14 09 24 12.6–.67 38.39N 144.90E 0 4.6,4.4 **¶16477808**
ISCJB III 14 09 24 17.3–.54 38.46N–.08 144.76E–.08 43 4.5b,4.4
NEIC III 14 09 24 18.1–.37 38.45N 144.83E 35 4.5b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.9km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=9.0km az=165.7.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.1km az=163.0.
ISC III 14 09 26 29.2–.82 37.25N–.10 144.26E–.09 35 3.8b 15 5-75
IDC III 14 09 26 24.0–.81 37.29N 144.38E 0 4.0,3.9 **¶17195124**
ISCJB III 14 09 26 27.0–.68 37.22N–.08 144.23E–.09 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 09 38 23.9–1.3 37.43N 143.75E 0 4.1,4.0
¶16461646
IDC Error ellipse: s-maj=42.1km s-min=24.1km az=130.0.

ISC III 14 09 41 39.9–.70 37.29N–.09 144.19E–.10 35 4.1b 23 5-88
IDC III 14 09 41 34.9–.74 37.33N 144.24E 0 4.2,4.0 **¶16477812**
NEIC III 14 09 41 37.0–5.2 37.33N 144.25E 14–32 4.1b,4.0
ISCJB III 14 09 41 37.7–.53 37.28N–.06 144.16E–.09 33 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 09 51 51.6–.00 37.9N–.20 143.7E–.20 35 3.9b 12 11-88
IDC III 14 09 51 46.1–.94 37.79N 143.82E 0 3.9,3.7 **¶17195128**
ISCJB III 14 09 51 49.1–.81 37.8N–.10 143.8E–.20 33 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 10 08 56.5–.58 37.03N–.05 143.65E–.06 24–3 4.7b,3.7s 153 2-145
IDC III 14 10 08 52.3–.51 36.95N 143.78E 0 4.6,4.6 **¶16313910**
JMA III 14 10 08 55.2–.30 36.96N 143.51E 21 4.6,4.6
NEIC III 14 10 08 55.2–2.3 37.03N 143.70E 14–14 4.8b,4.6
ISCJB III 14 10 08 56.4–.24 36.99N–.04 143.56E–.03 32 4.6b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 10 15 04.9–.88 36.3N–.10 143.2E–.10 35 3.7b 13 4-89
IDC III 14 10 14 59.7–.88 36.34N 143.31E 0 3.9,3.8 **¶16461703**
ISCJB III 14 10 15 02.8–.75 36.27N–.09 143.2E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 10 21 34.6–.56 36.25N–.05 142.15E–.06 19 4.1b 43 1-147
IDC III 14 10 21 31.8–.61 36.27N 142.18E 0 4.2,4.0 **¶16461705**
ISCJB III 14 10 21 33.0–.45 36.34N–.04 142.21E–.05 19 4.0b,4.0
JMA III 14 10 21 34.3–.30 36.34N 142.21E 33 3.7,4.0
NEIC III 14 10 21 37.0–.32 36.26N 142.11E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.6km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.9km az=136.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=152.0.
ISC III 14 10 24 56.2–.88 37.97N–.07 144.37E–.08 35 3.9b 23 3-75
IDC III 14 10 24 51.1–.81 37.94N 144.62E 0 4.1L,4.0 **¶600545247**
ISCJB III 14 10 24 54.5–.63 37.98N–.07 144.36E–.06 33 3.8b,4.0
JMA III 14 10 24 57.0–.40 38.11N 144.15E 26 4.4,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=22.4km s-min=18.4km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.3km az=10.3.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 14 10 28 40.3–.39 37.13N–.05 142.17E–.04 19 5.0b,4.5s 289 2-146
NIED III 14 10 28 00 37.20N 142.30E 11 4.5W,4.5s **¶16313912**
IDC III 14 10 28 36.9–.52 37.11N 142.23E 0 4.6,4.5
JMA III 14 10 28 36.6–.60 37.22N 142.33E 23 4.6,4.5
ISCJB III 14 10 28 39.0–.20 37.17N–.04 142.11E–.03 19 4.9b,4.6s
NEIC III 14 10 28 39.1–2.6 37.15N 142.18E 9–16 5.1b,4.6s
BJI III 14 10 28 39.6 36.89N 141.92E 23 5.0b,4.7b
MOS III 14 10 28 40.8–.93 37.21N 142.10E 33 5.2b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ14.00000°,λ170.00000°. NP2:ϕ_s332.00000°,δ88.00000°,λ76.00000°. $M_0$6.50000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=150.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.9km az=160.7.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.7km az=150.0.
MOS Error ellipse: s-maj=7.9km s-min=6.2km az=109.6.
JMA III 14 10 36 32.8–.20 37.58N 142.04E 9–3 4.3
¶602660475
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 14 10 53 39.0–2.1 38.56N 143.55E 0 3.8,3.7
¶17195132
IDC Error ellipse: s-maj=55.6km s-min=24.5km az=69.0.
ISC III 14 10 59 49.7–.94 38.3N–.10 143.8E–.10 14 3.5b 8 5-88
ISCJB III 14 10 59 47.9–.79 38.3N–.10 143.7E–.20 14 3.5b **¶17195134**
IDC III 14 10 59 47.6–.94 38.34N 143.81E 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=14.8km az=136.9.
IDC Error ellipse: s-maj=35.6km s-min=20.7km az=117.0.
ISC III 14 11 00 12.9–1.2 37.2N–.10 143.6E–.20 35 3.6b 7 4-61
IDC III 14 11 00 07.8–1.2 37.25N 143.66E 0 3.8,3.7 **¶16477830**
ISCJB III 14 11 00 10.3–1.1 37.26N–.10 143.6E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 11 00 39.2–1.0 37.3N–.10 143.5E–.20 35 4.0b 10 4-69
IDC III 14 11 00 34.2–.98 37.28N 143.67E 0 4.1,4.0 **¶17195136**
ISCJB III 14 11 00 36.9–.85 37.28N–.09 143.6E–.20 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 11 00 59.6–.74 37.19N–.09 143.67E–.09 35 4.1b 29 4-89
IDC III 14 11 00 54.5–.80 37.24N 143.88E 0 4.3,4.1 **¶17195138**
ISCJB III 14 11 00 57.6–.57 37.28N–.07 143.75E–.08 33 4.2b,4.1
NEIC III 14 11 00 59.8–.55 37.35N 143.76E 35 4.3b,4.1
NIED III 14 11 01 00 36.50N 141.60E 29 3.8W,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=8.1km az=43.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.3km az=127.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ69.00000°,λ21.00000°. NP2:ϕ_s339.00000°,δ71.00000°,λ157.00000°. $M_0$4.81000×10^{14}
ISC III 14 11 22 01.5–1.1 36.9N–.10 143.6E–.10 35 3.7b 9 4-89
IDC III 14 11 21 56.2–1.0 36.82N 143.77E 0 3.9,3.7 **¶603049761**
ISCJB III 14 11 21 59.2–.87 36.9N–.10 143.6E–.20 33 3.7b,2.6s
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 11 25 43.6–1.5 37.8N–.10 143.3E–.20 19 3.5b 7 4-58
IDC III 14 11 25 40.5–1.7 37.78N 143.38E 0 3.6,3.6 **¶17195146**
ISCJB III 14 11 25 41.4–1.4 37.7N–.10 143.4E–.20 19 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 11 34 05.2–3.7 40.32N–.05 144.07E–.06 3–23 4.3b,4.0s 86 2-91
IDC III 14 11 34 04.2–.63 40.26N 144.14E 0 4.3,4.2 **¶602660406**
ISCJB III 14 11 34 05.1–1.4 40.31N–.03 144.08E–.05 14–9 4.3b,4.0s
JMA III 14 11 34 06.6–.20 40.26N 144.11E 59 4.5,4.0s
NEIC III 14 11 34 09.7–.36 40.28N 144.07E 35 4.7b,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=15.4km s-min=13.3km az=157.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=34.3.
JMA Error ellipse: s-maj=2.2km s-min=2.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.5km az=120.0.
ISC III 14 11 39 53.5–.91 38.8N–.10 144.4E–.10 23 3.5b 11 5-74
IDC III 14 11 39 50.1–.87 38.83N 144.22E 0 3.8,3.6 **¶17195147**
ISCJB III 14 11 39 51.5–.75 38.7N–.10 144.4E–.10 23 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 11 41 09.3–1.2 37.2N–.10 143.7E–.10 35 3.6b 10 4-61
IDC III 14 11 41 04.2–1.2 37.16N 143.66E 0 3.8,3.7 **¶17195148**
ISCJB III 14 11 41 06.8–1.0 37.18N–.09 143.7E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 11 43 05.5–2.9 36.82N 142.41E 0 3.5,3.4b
¶17195149
IDC Error ellipse: s-maj=73.3km s-min=30.4km az=60.0.
ISC III 14 11 56 00.1–.93 38.3N–.10 143.5E–.10 15 3.5b 10 5-76
IDC III 14 11 55 58.0–.86 38.34N 143.51E 0 3.8,3.7 **¶17195152**
ISCJB III 14 11 55 58.3–.79 38.3N–.10 143.6E–.20 15 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 12 01 06.8–1.2 36.38N 143.55E 0 3.7,3.6

¶17195154
IDC Error ellipse: s-maj=31.2km s-min=22.6km az=85.0.
ISC III 14 12 09 07.5–.81 37.79N–.08 144.0E–.10 35 3.8b 31 4-76
IDC III 14 12 09 02.0–.75 37.79N 144.19E 0 3.9,3.8 ¶16477850
ISCJB III 14 12 09 05.4–.55 37.72N–.06 143.94E–.09 33 3.9b,3.8
NEIC III 14 12 09 07.3–.55 37.74N 144.02E 35 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=16.9km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.7km az=29.9.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.1km az=127.0.
IDC III 14 12 10 33.2–1.1 34.41N 142.23E 0 3.9,3.7
¶603145362
IDC Error ellipse: s-maj=59.7km s-min=27.6km az=95.0.
ISC III 14 12 17 46.3–.64 40.01N–.08 144.5E–.10 34 4.0b 32 2-86
IDC III 14 12 17 41.4–.72 40.00N 144.53E 0 4.9L,4.1 ¶16477854
ISCJB III 14 12 17 44.2–.48 39.96N–.05 144.44E–.10 34 3.9b,4.1
NEIC III 14 12 17 45.8–.36 40.01N 144.46E 30 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.3km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=7.5km az=15.1.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=5.7km az=105.0.
IDC III 14 12 21 08.3–3.0 37.97N 144.31E 0 3.9,3.8b
¶17195158
IDC Error ellipse: s-maj=76.1km s-min=34.0km az=54.0.
ISC III 14 12 28 56.6–.53 36.50N–.06 144.54E–.06 35 4.2b,3.4s 61 3-145
NIED III 14 12 28 00 36.80N 144.40E 11 4.3W,3.4s ¶602659934
IDC III 14 12 28 51.4–.55 36.47N 144.80E 0 4.3,4.2
ISCJB III 14 12 28 54.7–.40 36.51N–.05 144.45E–.04 33 4.1b,3.5s
JMA III 14 12 28 54.8–.30 36.79N 144.40E 67 4.4,3.5s
NEIC III 14 12 28 56.4–.42 36.42N 144.65E 35 4.3b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ23.00000°,λ-98.00000°. NP2:ϕ_s205.00000°,δ67.00000°,λ-86.00000°. $M_0$3.16000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.2km az=151.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.9km az=146.0.
ISC III 14 12 32 39.0–.70 36.56N–.09 144.53E–.08 35 3.8b 33 5-88
IDC III 14 12 32 33.8–.68 36.57N 144.65E 0 4.0,3.9 ¶16477858
ISCJB III 14 12 32 36.8–.48 36.53N–.06 144.47E–.06 33 3.8b,3.9
NEIC III 14 12 32 39.0–.44 36.58N 144.55E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=14.2km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.1km az=145.9.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.2km az=144.0.
ISC III 14 12 34 41.4–.67 36.39N–.09 143.28E–.08 35 3.9b 30 4-146
IDC III 14 12 34 36.4–.68 36.49N 143.35E 0 4.0,3.9 ¶16477859
ISCJB III 14 12 34 39.6–.51 36.47N–.07 143.24E–.07 33 3.8b,3.9
NEIC III 14 12 34 41.7–.40 36.48N 143.36E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=17.1km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=7.5km az=164.9.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.5km az=143.0.
ISC III 14 12 39 28.9–.64 36.73N–.06 144.39E–.07 35 4.0b 49 3-88
NIED III 14 12 39 00 36.80N 144.40E 11 4.2W ¶602659924
IDC III 14 12 39 23.5–.62 36.57N 144.66E 0 4.2,4.1
JMA III 14 12 39 27.4–.30 36.80N 144.36E 67 4.3,4.1
ISCJB III 14 12 39 27.1–.42 36.72N–.04 144.33E–.04 33 4.1b,4.1
NEIC III 14 12 39 28.6–.41 36.56N 144.59E 35 4.3b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ25.00000°,λ-107.00000°. NP2:ϕ_s202.00000°,δ67.00000°,λ-83.00000°. $M_0$2.42000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=14.1km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=141.6.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.4km az=124.0.
ISC III 14 12 42 19.1–1.0 36.7N–.20 142.3E–.10 15 3.5b 11 3-77
IDC III 14 12 42 16.7–.96 36.66N 142.28E 0 3.7,3.6 ¶17195162
ISCJB III 14 12 42 17.2–.77 36.6N–.10 142.3E–.10 15 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 12 45 32.5–.45 36.75N–.05 144.46E–.06 35 4.4b,3.6s 156 3-145
NIED III 14 12 45 00 36.80N 144.40E 5 4.5W,3.6s ¶16318224
IDC III 14 12 45 26.7–.49 36.62N 144.64E 0 4.5,4.4
NEIC III 14 12 45 27.9–2.2 36.64N 144.55E 5–14 4.8b,4.4
JMA III 14 12 45 29.8–.20 36.79N 144.42E 49 4.9,4.4
ISCJB III 14 12 45 30.7–.21 36.74N–.03 144.34E–.02 33 4.4b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ16.00000°,λ-122.00000°. NP2:ϕ_s202.00000°,δ77.00000°,λ-82.00000°. $M_0$6.32000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 14 12 51 25.9–.53 36.63N–.05 142.25E–.07 19 4.0b 58 1-146
NIED III 14 12 51 00 36.70N 142.20E 17 4.0W ¶16477864
IDC III 14 12 51 22.2–.73 36.45N 142.24E 0 4.1,4.0
ISCJB III 14 12 51 23.9–.38 36.60N–.04 142.30E–.05 19 4.0b,4.0
JMA III 14 12 51 24.6–.50 36.72N 142.25E 16–4 4.5,4.0
NEIC III 14 12 51 28.9–.90 36.49N 142.22E 48–9 4.1b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ32.00000°,λ-107.00000°. NP2:ϕ_s186.00000°,δ60.00000°,λ-80.00000°. $M_0$1.26000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.7km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.1km az=39.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=7.7km az=66.0.
ISC III 14 12 54 55.3–.61 36.57N–.05 142.08E–.06 19 3.7b 38 1-146
NIED III 14 12 54 00 36.60N 142.10E 14 3.9W ¶16477865
IDC III 14 12 54 52.4–.78 36.59N 142.09E 0 4.4s,4.4
ISCJB III 14 12 54 53.1–.45 36.59N–.03 142.19E–.05 19 4.4s,3.7b
NEIC III 14 12 54 55.6–1.8 36.56N 142.06E 22–13 4.1b,3.7b
JMA III 14 12 54 55.1–.30 36.63N 142.14E 71 3.9,3.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ40.00000°,λ-77.00000°. NP2:ϕ_s8.00000°,δ52.00000°,λ-101.00000°. $M_0$6.73000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=17.6km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.8km az=15.5.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=93.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 12 58 18.3–.80 38.5N–.10 144.6E–.10 29 3.6b 17 5-75
IDC III 14 12 58 14.2–.70 38.48N 144.58E 0 4.1s,4.1 ¶17195164
ISCJB III 14 12 58 16.4–.61 38.47N–.08 144.5E–.10 29 3.7b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 13 00 44.6–.67 37.80N–.05 143.23E–.08 18 4.0b 44 2-76
NIED III 14 13 00 00 37.90N 142.90E 8 3.9W ¶602659914
IDC III 14 13 00 42.0–.69 37.77N 143.26E 0 4.1,3.9
ISCJB III 14 13 00 43.2–.50 37.84N–.05 143.25E–.06 18 4.0b,3.9
JMA III 14 13 00 45.1–.60 37.95N 142.95E 0 4.4,3.9
NEIC III 14 13 00 48.4–1.2 37.86N 143.14E 43–10 4.3b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ31.00000°,λ-74.00000°. NP2:ϕ_s212.00000°,δ60.00000°,λ-99.00000°. $M_0$7.47000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=14.7km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.2km az=44.7.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=8.6km az=125.0.
ISC III 14 13 02 14.7–.71 37.28N–.05 144.13E–.07 35 4.0b 43 3-75
NIED III 14 13 02 00 37.30N 144.10E 5 4.0W ¶16409302
IDC III 14 13 02 09.6–.76 37.18N 144.21E 0 4.2,4.1L
NEIC III 14 13 02 10.6–4.2 37.22N 144.23E 7–26 4.5b,4.1L
JMA III 14 13 02 12.9–.50 37.30N 144.09E 50 4.6,4.1L
ISCJB III 14 13 02 12.6–.49 37.24N–.04 144.09E–.04 33 4.0b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ26.00000°,λ-123.00000°. NP2:ϕ_s222.00000°,δ68.00000°,λ-75.00000°. $M_0$1.03000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 14 13 04 59.2–.94 39.7N–.10 144.0E–.10 11 3.8b 16 6-74
IDC III 14 13 04 57.3–.86 39.66N 144.01E 0 3.9,3.8 ¶16461720
ISCJB III 14 13 04 57.5–.77 39.7N–.10 143.9E–.10 11 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 13 13 36.8–2.1 39.0N–.20 144.5E–.20 19 3.5b 7 6-63
IDC III 14 13 13 33.4–2.3 39.12N 144.59E 0 3.6,3.5 ¶17195165
ISC Event type ke.
IDC Error ellipse: s-maj=65.6km s-min=22.2km az=65.0.
ISC III 14 13 15 40.4–.54 39.37N–.05 143.92E–.06 11 4.3b 69 2-88
JMA III 14 13 15 36.7–.30 39.45N 143.92E 0 4.8 ¶16409303
ISCJB III 14 13 15 38.9–.43 39.44N–.03 143.86E–.05 11 4.2b,3.4s
IDC III 14 13 15 39.6–.68 39.28N 143.64E 0 4.2,4.1
NEIC III 14 13 15 43.0–2.6 39.32N 143.64E 23–19 4.6b,4.1
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=24.3.
IDC Error ellipse: s-maj=17.3km s-min=13.7km az=128.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.6km az=125.0.
IDC III 14 13 26 22.8–5.5 37.17N 143.65E 0 3.7,3.6
¶17195166
IDC Error ellipse: s-maj=105.0km s-min=47.9km az=14.0.
ISC III 14 13 33 03.2–.54 37.44N–.05 144.62E–.06 35 4.4b 69 3-144
IDC III 14 13 32 57.2–.61 37.27N 144.83E 0 4.3,4.2 ¶602659753
NEIC III 14 13 32 58.8–.36 37.27N 144.76E 10 4.7b,4.2
ISCJB III 14 13 33 01.0–.39 37.40N–.04 144.53E–.04 33 4.3b,3.3s
NIED III 14 13 33 00 37.50N 144.60E 5 4.1W,3.3s
JMA III 14 13 33 00.8–.60 37.53N 144.58E 45 5.0,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=13.9km az=109.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.0km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=159.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ23.00000°,λ-91.00000°. NP2:ϕ_s210.00000°,δ67.00000°,λ-90.00000°. $M_0$1.79000×10^{15}
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 14 13 43 35.6–.80 36.68N–.09 143.3E–.10 35 3.8b 15 4-77
IDC III 14 13 43 30.7–.77 36.73N 143.41E 0 4.0,3.9 ¶603049765
ISCJB III 14 13 43 33.4–.62 36.65N–.06 143.3E–.10 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 13 53 09.1–.62 36.73N–.04 142.17E–.05 25–4 4.7b,4.2s 177 1-146
NIED III 14 13 53 00 36.70N 142.20E 20 4.7W,4.2s ¶16318225
IDC III 14 13 53 05.2–.50 36.69N 142.20E 0 4.6,4.5
ISCJB III 14 13 53 06.1–1.4 36.68N–.03 142.24E–.03 13–8 4.6b,4.0s
JMA III 14 13 53 08.6–.40 36.74N 142.15E 24 4.8,4.0s
NEIC III 14 13 53 10.2–1.4 36.75N 142.14E 31–10 4.7b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ20.00000°,λ88.00000°. NP2:ϕ_s27.00000°,δ70.00000°,λ91.00000°. $M_0$1.35000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=11.2km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.9km az=160.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.1km az=138.0.
ISC III 14 13 57 00.9–.67 38.01N–.08 144.88E–.09 26 4.1b 32 4-144
IDC III 14 13 56 57.7–.77 38.06N 144.98E 0 4.3L,4.2 ¶16410979
ISCJB III 14 13 56 59.1–.53 37.94N–.06 144.92E–.08 26 4.0b,4.2
NEIC III 14 13 57 03.1–.67 38.17N 144.76E 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=15.2km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=35.9.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=9.9km az=108.0.
ISC III 14 14 05 04.0–.77 36.58N–.06 142.31E–.09 15 3.7b 22 1-64
NIED III 14 14 05 00 36.70N 142.30E 32 3.9W ¶17195170
ISCJB III 14 14 05 02.4–.59 36.58N–.04 142.38E–.07 15 3.7b
IDC III 14 14 05 02.2–.95 36.65N 142.32E 0 3.9,3.8
JMA III 14 14 05 04.5–.40 36.69N 142.30E 18 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ47.00000°,λ14.00000°. NP2:ϕ_s57.00000°,δ80.00000°,λ136.00000°. $M_0$9.30000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.4km az=165.8.
IDC Error ellipse: s-maj=23.1km s-min=16.9km az=118.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 14 14 07 58.7–.74 37.63N–.08 144.2E–.10 35 3.9b 31 4-76
IDC III 14 14 07 53.8–.68 37.70N 144.33E 0 4.0,3.9 ¶16410981
ISCJB III 14 14 07 56.6–.52 37.68N–.06 144.22E–.08 33 3.9b,3.9
NEIC III 14 14 07 58.9–.41 37.71N 144.25E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=14.6km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.5km az=41.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.8km az=130.0.
ISC III 14 14 11 51.8–.61 39.92N–.06 143.63E–.07 6 4.2b 72 2-87
ISCJB III 14 14 11 49.5–.44 39.83N–.04 143.75E–.06 6 4.1b ¶602659696
JMA III 14 14 11 50.4–.50 39.96N 143.66E 0 4.5
IDC III 14 14 11 50.8–.61 39.83N 143.66E 0 4.3,4.2
NEIC III 14 14 11 54.6–2.1 39.86N 143.56E 24–14 4.4b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.8km az=39.6.
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=12.8km az=133.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.0km az=119.0.
IDC III 14 14 21 28.6–1.7 37.53N 144.71E 0 3.8,3.7L
¶17195171
IDC Error ellipse: s-maj=57.3km s-min=33.2km az=131.0.
ISC III 14 14 27 47.3–.90 37.6N–.10 144.0E–.10 35 3.6b 9 5-76
IDC III 14 14 27 42.4–.96 37.66N 144.30E 0 3.9,3.7 ¶17195172
ISCJB III 14 14 27 45.1–.79 37.6N–.10 144.1E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 14 30 40.5–1.8 36.6N–.10 143.6E–.20 35 3.4b 8 4-61
IDC III 14 14 30 35.7–2.3 36.59N 143.64E 0 3.6,3.6 ¶17195173
ISCJB III 14 14 30 38.1–1.4 36.59N–.09 143.6E–.20 33 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 14 30 58.6–.97 37.6N–.10 144.2E–.10 35 3.7b 14 5-66
IDC III 14 14 30 53.5–.94 37.69N 144.37E 0 3.9,3.8 ¶17195176
ISCJB III 14 14 30 56.2–.82 37.55N–.08 144.3E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 14 34 55.5–.58 36.52N–.07 144.45E–.08 35 4.1b 47 5-145
IDC III 14 14 34 50.5–.63 36.56N 144.59E 0 4.2,4.1 ¶16410983
ISCJB III 14 14 34 53.7–.44 36.53N–.06 144.45E–.07 33 4.0b,4.1
NEIC III 14 14 34 55.8–.38 36.58N 144.50E 35 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=13.2km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=5.4km az=44.2.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.8km az=143.0.
ISC III 14 14 39 24.3–.57 37.19N–.07 142.52E–.09 9 4.3b 45 4-157
ISCJB III 14 14 39 22.4–.42 37.17N–.04 142.51E–.08 9 4.1b ¶17195177
IDC III 14 14 39 23.4–.62 37.25N 142.43E 0 4.4L,4.3
NEIC III 14 14 39 24.2–2.5 37.26N 142.50E 6–15 4.3b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.8km az=12.8.
IDC Error ellipse: s-maj=16.0km s-min=13.9km az=100.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.6km az=116.0.
ISC III 14 14 47 01.5–.80 39.78N–.09 143.4E–.10 6 4.0b 32 2-75

ISCJB III 14 14 46 59.6–.53 39.73N–.06 143.3E–.10 6 3.8b ¶16410985
IDC III 14 14 47 00.6–.77 39.79N 143.37E 0 4.0,3.9
NEIC III 14 14 47 02.2–.35 39.78N 143.32E 10 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=7.7km az=21.4.
IDC Error ellipse: s-maj=19.0km s-min=15.3km az=105.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.3km az=118.0.
ISC III 14 14 51 38.5–.53 38.61N–.04 143.40E–.04 17–2 5.1b,4.6s 971 3-150
IDC III 14 14 51 35.9–.48 38.52N 143.39E 0 4.9,4.8 ¶16477882
BJI III 14 14 51 35.7 38.72N 143.61E 21 5.1b,5.0b
ISCJB III 14 14 51 36.4–.13 38.55N–.03 143.30E–.02 10 5.0b,4.7s
NEIC III 14 14 51 39.2–.58 38.55N 143.21E 20–3 5.1b,4.7s
GCMT III 14 14 51 39.2–.40 38.65N 143.30E 12 4.8W,4.7s
MOS III 14 14 51 40.7–.84 38.73N 143.23E 33 5.3b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=11.3km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.3km az=167.7.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=156.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c14; s64,c101; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.53±.07 $M_{\theta\theta}$-0.17±.07; $M_{\phi\phi}$1.70±.05; $M_{r\theta}$-0.20±.31; $M_{\theta\phi}$0.68±.05; $M_{\phi r}$-0.22±.21; Best double couple: NP1:ϕ_s24.00000°,δ50.00000°,λ-82.00000°. NP2:ϕ_s192.00000°,δ41.00000°,λ-99.00000°. Principal axes: T 1.9400,Plg4.0000°,Azm108.0000°; N -0.3750,Plg6.0000°,Azm199.0000°; P -1.5630,Plg83.0000°,Azm341.0000° $M_0$1.75100×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=107.7.
ISC III 14 14 53 00.8–.66 37.69N–.09 142.9E–.10 24 4.5b,3.6s 28 4-145
IDC III 14 14 52 57.1–.66 37.68N 142.93E 0 4.6,4.5 ¶16410986
ISCJB III 14 14 52 58.6–.48 37.61N–.05 142.92E–.08 24 4.5b,3.9s
NEIC III 14 14 53 02.0–.40 37.59N 142.95E 35 4.8b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=15.4km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.7km az=23.2.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.8km az=113.0.
ISC III 14 15 02 20.4–1.5 38.0N–.10 144.2E–.20 35 4.5b 10 4-62
IDC III 14 15 02 15.2–2.3 37.96N 144.34E 0 4.7,4.5 ¶16410988
ISCJB III 14 15 02 17.9–1.1 38.0N–.10 144.3E–.20 33 4.4b,4.5
NEIC III 14 15 02 20.3–1.1 38.00N 144.21E 35 4.5b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=66.4km s-min=26.0km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=25.8km s-min=14.2km az=173.9.
NEIC Event type se. Error ellipse: s-maj=26.2km s-min=14.5km az=86.0.
ISC III 14 15 03 01.9–2.9 37.29N–.08 142.2E–.10 4–15 4.3b 21 1-61
IDC III 14 15 03 00.4–2.1 37.20N 142.54E 0 4.3,4.2 ¶16410991
JMA III 14 15 03 04.5–.20 37.28N 142.09E 23–4 4.6,4.2
NEIC III 14 15 03 05.7–.99 37.24N 142.39E 35 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=55.5km s-min=23.7km az=66.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=12.0km az=64.0.
ISC III 14 15 03 49.8–.82 36.53N–.10 142.0E–.10 19 4.2b 11 3-147
IDC III 14 15 03 47.8–.80 36.43N 142.06E 0 4.3,4.1b ¶16410994
NEIC III 14 15 03 49.0–.72 36.46N 142.07E 10 4.5b,4.1b
ISCJB III 14 15 03 49.0–.66 36.33N–.08 142.0E–.10 19 4.1b,4.1b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 15 11 10.2–.53 36.23N–.06 142.12E–.07 23 4.5b 93 1-90
NIED III 14 15 11 00 36.30N 142.20E 23 4.5W ¶602659568
IDC III 14 15 11 06.6–.62 36.25N 142.14E 0 4.3,4.2
JMA III 14 15 11 08.9–.30 36.28N 142.21E 54 4.6,4.2
ISCJB III 14 15 11 08.3–.36 36.25N–.04 142.18E–.05 23 4.4b,4.2
NEIC III 14 15 11 12.0–.73 36.23N 142.07E 35–6 4.7b,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ29.00000°,λ81.00000°. NP2:ϕ_s23.00000°,δ62.00000°,λ95.00000°. $M_0$6.49000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=13.5km az=123.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=37.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.3km az=116.0.
IDC III 14 15 16 45.7–3.0 39.45N 143.42E 0 3.8,3.7
¶17195181
IDC Error ellipse: s-maj=68.5km s-min=32.1km az=150.0.
IDC III 14 15 17 52.8–1.3 37.65N 144.34E 0 3.7,3.5b
¶17195183
IDC Error ellipse: s-maj=36.7km s-min=27.1km az=98.0.
ISC III 14 15 23 52.5–.39 37.27N–.04 143.69E–.04 32–2 5.0b,4.5s 518 2-150
BJI III 14 15 23 51.2 37.39N 143.62E 26 5.0b,4.7b ¶16461721
NEIC III 14 15 23 52.6–.44 37.20N 143.62E 30–3 5.0b,4.7b
GCMT III 14 15 23 52.6–.30 37.28N 143.69E 17–0 5.0W,4.7b
MOS III 14 15 23 52.9–.91 37.47N 143.62E 33 5.2b,4.6s
ISCJB III 14 15 23 52.5–.15 37.21N–.03 143.59E–.02 40 4.9b,4.5s
IDC III 14 15 23 53.9–.41 37.12N 143.71E 43–3 4.7,4.6
JMA III 14 15 23 53.4–.30 37.19N 143.42E 32 4.8,4.6
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=157.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s86,c139; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.36±.19 $M_{\theta\theta}$2.20±.12; $M_{\phi\phi}$1.16±.11; $M_{r\theta}$-0.01±.31; $M_{\theta\phi}$1.46±.06; $M_{\phi r}$0.38±.33; Best double couple: NP1:ϕ_s230.00000°,δ47.00000°,λ-97.00000°. NP2:ϕ_s60.00000°,δ43.00000°,λ-83.00000°. Principal axes: T 3.2370,Plg2.0000°,Azm325.0000°; N 0.1580,Plg5.0000°,Azm234.0000°; P -3.3950,Plg85.0000°,Azm75.0000° $M_0$3.31600×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=107.8.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.2km az=164.3.
IDC Error ellipse: s-maj=9.8km s-min=9.2km az=95.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 15 29 59.1–1.1 37.76N–.05 142.22E–.07 25–8 4.0b 52 1-77
NIED III 14 15 29 00 37.70N 142.10E 20 4.0W ¶16410996
IDC III 14 15 29 54.5–.82 37.64N 142.23E 0 4.1,4.0
ISCJB III 14 15 29 58.5–.85 37.74N–.04 142.25E–.06 37–7 4.0b,4.0
JMA III 14 15 29 59.0–.20 37.73N 142.10E 31 4.3,4.0
NEIC III 14 15 30 01.1–1.0 37.74N 142.30E 49–9 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ33.00000°,λ-38.00000°. NP2:ϕ_s195.00000°,δ70.00000°,λ-117.00000°. $M_0$1.26000×10^{15}
IDC Error ellipse: s-maj=19.8km s-min=18.3km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.0km az=10.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.2km az=114.0.
ISC III 14 15 31 11.8–.89 39.6N–.10 144.3E–.20 23 4.1b 18 20-74
ISCJB III 14 15 31 09.2–.88 39.6N–.10 144.4E–.20 23 3.9b ¶17195185
IDC III 14 15 31 13.2–.77 39.57N 144.33E 34–5 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=17.2km az=0.9.
IDC Error ellipse: s-maj=24.8km s-min=14.6km az=85.0.
JMA III 14 15 31 24.5–.30 37.56N 142.71E 15 4.0
¶602659543
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 14 15 34 20.9–1.2 36.47N 143.26E 0 3.8,3.6
¶17195186
IDC Error ellipse: s-maj=47.1km s-min=25.4km az=95.0.
ISC III 14 15 46 01.4–1.2 36.2N–.10 143.4E–.20 35 4.0b 13 4-76
IDC III 14 15 45 56.6–1.2 36.30N 143.41E 0 4.0,4.0 ¶16424479
ISCJB III 14 15 45 59.3–.87 36.22N–.09 143.4E–.10 33 4.0b,4.0
NEIC III 14 15 46 01.8–.95 36.24N 143.35E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=37.0km s-min=20.2km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=13.5km az=174.2.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=14.8km az=88.0.
ISC III 14 15 46 08.3–2.3 37.4N–.20 142.6E–.20 21 7 1-61
IDC III 14 15 46 06.2–9.8 37.11N 143.90E 0 4.3,4.0 ¶16477893
JMA III 14 15 46 07.2–.30 37.30N 142.54E 12 4.2,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=209.6km s-min=48.8km az=25.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 15 46 26.7–.65 37.25N–.07 143.65E–.10 35 4.2b 30 4-83
ISCJB III 14 15 46 24.6–.61 37.29N–.06 143.6E–.10 33 4.2b ¶17195189
NEIC III 14 15 46 26.3–.67 37.41N 143.79E 35 4.5b
IDC III 14 15 46 27.6–.70 37.42N 143.69E 42–6 4.2,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=8.5km az=168.8.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=10.1km az=88.0.
IDC Error ellipse: s-maj=18.1km s-min=14.4km az=85.0.
IDC III 14 15 47 04.5–2.0 39.60N 143.03E 0 4.2,4.2L
¶17195191
IDC Error ellipse: s-maj=72.1km s-min=32.9km az=90.0.
ISC III 14 15 50 00.5–1.0 36.99N–.06 142.33E–.08 9 3.8b 28 1-90
IDC III 14 15 49 57.1–1.1 37.11N 142.80E 0 4.0,3.9 ¶16424483
ISCJB III 14 15 49 58.4–.66 36.94N–.05 142.41E–.06 9 3.9b,3.9
NIED III 14 15 50 00 37.00N 142.30E 11 4.1W,3.9
NEIC III 14 15 50 02.8–.79 37.04N 142.65E 35 4.5b,3.9
JMA III 14 15 50 03.1–.20 37.03N 142.26E 69 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.4km s-min=20.0km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=7.3km az=20.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ14.00000°,λ-33.00000°. NP2:ϕ_s213.00000°,δ83.00000°,λ-101.00000°. $M_0$1.41000×10^{15}
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=14.4km az=52.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 15 50 14.8–.63 39.42N–.08 143.64E–.09 11 4.2b 38 3-75
IDC III 14 15 50 13.6–.70 39.47N 143.58E 0 4.2,4.1 ¶16424484
ISCJB III 14 15 50 13.2–.47 39.41N–.06 143.61E–.08 11 4.1b,3.2s
NEIC III 14 15 50 17.2–1.9 39.42N 143.59E 26–13 4.4b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.7km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=7.0km az=36.1.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.5km az=116.0.
ISC III 14 15 59 46.6–.97 37.9N–.10 144.2E–.10 35 3.9b 16 5-75
IDC III 14 15 59 41.4–.97 37.96N 144.30E 0 4.0,3.8 ¶16424485
NEIC III 14 15 59 45.0–4.6 37.98N 144.25E 23–32 4.3b,3.8
ISCJB III 14 15 59 44.3–.75 37.96N–.08 144.2E–.10 33 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 16 08 21.1–.73 36.74N–.06 142.35E–.08 9 3.8b 38 1-64
NIED III 14 16 08 00 36.90N 142.30E 17 3.8W ¶16424486
IDC III 14 16 08 19.7–.86 36.72N 142.39E 0 4.0L,3.8
ISCJB III 14 16 08 19.1–.49 36.71N–.04 142.42E–.05 9 3.8b,3.8
JMA III 14 16 08 21.5–.40 36.85N 142.29E 16 4.1,3.8
NEIC III 14 16 08 24.7–.46 36.74N 142.35E 35 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ20.00000°,λ133.00000°. NP2:ϕ_s11.00000°,δ76.00000°,λ76.00000°. $M_0$5.63000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=15.7km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=37.1.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.1km az=107.0.
ISC III 14 16 14 34.7–.80 37.88N–.08 144.48E–.10 35 4.1b 39 4-83
IDC III 14 16 14 29.6–.84 37.92N 144.63E 0 4.0,4.0 ¶602659490
ISCJB III 14 16 14 32.8–.58 37.91N–.06 144.45E–.08 33 4.0b,4.0
NEIC III 14 16 14 35.1–.51 37.97N 144.49E 35 4.3b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=15.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.2km az=136.4.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.3km az=116.0.
ISC III 14 16 17 06.7–.82 36.5N–.10 144.04E–.09 35 3.5b 14 5-76
ISCJB III 14 16 17 04.9–.75 36.48N–.09 143.99E–.09 33 3.5b ¶17195193
IDC III 14 16 17 06.5–.96 36.52N 144.15E 31–7 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.6km az=153.7.
IDC Error ellipse: s-maj=26.7km s-min=18.0km az=134.0.
ISC III 14 16 20 51.6–1.2 36.7N–.10 143.7E–.10 35 3.5b 10 4-61
IDC III 14 16 20 46.9–1.2 36.82N 143.72E 0 3.6,3.5 ¶17195194
ISCJB III 14 16 20 49.6–.98 36.65N–.09 143.70E–.10 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 16 24 37.0–2.5 37.2N–.20 142.2E–.20 19 3.7b 9 2-46
IDC III 14 16 24 21.9–11 36.72N 144.09E 0 3.8,3.8 ¶16477902
JMA III 14 16 24 35.8–.30 37.24N 142.26E 18 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=212.2km s-min=72.4km az=141.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 16 24 42.6–.74 36.92N–.10 143.8E–.10 35 4.0b 25 4-89
ISCJB III 14 16 24 40.4–.64 36.87N–.07 143.8E–.10 33 4.1b,3.1s ¶17195198
NEIC III 14 16 24 42.4–.45 36.91N 143.78E 35 4.2b,3.1s
IDC III 14 16 24 42.6–.90 36.94N 143.79E 36–6 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=10.4km az=26.4.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.5km az=100.0.
IDC Error ellipse: s-maj=22.2km s-min=16.8km az=79.0.
ISC III 14 16 30 09.1–.94 36.55N–.09 143.5E–.10 35 3.7b 14 4-74
IDC III 14 16 30 04.0–.87 36.64N 143.74E 0 3.9,3.8 ¶603049775
ISCJB III 14 16 30 06.9–.78 36.54N–.08 143.5E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 16 32 56.9–1.4 37.61N 144.38E 0 3.9,3.7
¶17195201
IDC Error ellipse: s-maj=50.8km s-min=26.0km az=125.0.
JMA III 14 16 38 43.8–.30 39.68N 144.60E 40 3.8
¶602659435
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 16 38 57.6–.69 37.90N–.06 144.62E–.07 35 3.7b 31 3-75
ISCJB III 14 16 38 56.4–.62 37.97N–.06 144.60E–.05 33 3.7b ¶600545806
IDC III 14 16 38 57.0–.73 37.81N 144.65E 27–5 3.8,3.7
JMA III 14 16 38 59.3–.50 38.07N 144.51E 66 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.9km az=7.3.
IDC Error ellipse: s-maj=23.8km s-min=15.7km az=122.0.
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
ISC III 14 16 47 51.1–1.2 37.80N–.10 143.8E–.20 35 3.9b 15 4-69
IDC III 14 16 47 45.6–1.1 37.74N 143.84E 0 3.9,3.8 ¶16424489
NEIC III 14 16 47 47.8–6.3 37.81N 143.99E 15–39 4.2b,3.8
ISCJB III 14 16 47 48.2–.80 37.78N–.07 143.9E–.10 33 3.8b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 16 54 42.2–1.1 36.60N–.10 143.6E–.20 35 3.8s,3.7b 13 5-72
IDC III 14 16 54 37.0–1.0 36.64N 143.67E 0 3.8,3.7 ¶17195204
ISCJB III 14 16 54 40.0–.87 36.58N–.08 143.5E–.10 33 3.7s,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 17 00 42.6–6.2 39.03N 143.87E 0 3.8,3.7
¶17195206
IDC Error ellipse: s-maj=127.4km s-min=56.6km az=171.0.
ISC III 14 17 03 29.6–.65 37.97N–.06 143.91E–.07 35 3.8b 43 3-76
ISCJB III 14 17 03 27.7–.51 37.94N–.05 143.86E–.05 33 3.8b ¶602659378
JMA III 14 17 03 29.3–.40 38.03N 143.80E 46 4.1
IDC III 14 17 03 30.1–.81 37.99N 143.84E 34–6 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.7km az=168.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

IDC Error ellipse: s-maj=17.2km s-min=13.6km az=89.0.
ISC III 14 17 05 39.3–.92 37.66N–.06 143.89E–.08 35 3.5b 23 3-62
ISCJB III 14 17 05 37.8–.83 37.70N–.05 143.85E–.07 33 3.6b **¶17195208**
JMA III 14 17 05 37.3–.40 37.68N 143.87E 51 3.6
IDC III 14 17 05 40.4–.88 37.43N 144.00E 37–8 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.0km az=167.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=25.6km s-min=17.9km az=90.0.
ISC III 14 17 07 20.8–1.4 35.93N–.09 142.2E–.10 23 3.4b 14 1-60
IDC III 14 17 07 17.0–2.5 35.91N 142.27E 0 3.6,3.6s **¶17195209**
ISCJB III 14 17 07 18.8–.98 36.04N–.07 142.24E–.09 23 3.6s,3.3b
JMA III 14 17 07 20.9–.40 36.08N 142.13E 42 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=82.6km s-min=20.9km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=9.7km az=45.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 14 17 09 56.2–1.0 36.98N–.07 143.6E–.10 35 3.7b 22 2-61
NIED III 14 17 09 00 37.10N 143.50E 5 3.9W **¶17195210**
IDC III 14 17 09 50.6–1.0 36.94N 143.87E 0 3.9,3.8
ISCJB III 14 17 09 53.8–.76 36.88N–.06 143.61E–.08 33 3.7b,3.8
JMA III 14 17 09 55.2–.80 37.08N 143.50E 54 4.3,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ17.00000°,λ-154.00000°. NP2:ϕ_s233.00000°,δ83.00000°,λ-75.00000°. M_o8.95000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=17.1km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.8km az=27.4.
JMA Error ellipse: s-maj=5.6km s-min=6.2km az=-1.0.
ISC III 14 17 11 20.1–.71 37.08N–.09 143.12E–.09 25 4.0b 20 4-89
IDC III 14 17 11 16.5–.69 37.11N 143.22E 0 4.2,3.9 **¶16410998**
ISCJB III 14 17 11 18.3–.56 37.05N–.07 143.09E–.08 25 4.0b,3.9
NEIC III 14 17 11 18.0–.56 37.14N 143.19E 10 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=16.3km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.2km az=140.5.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=10.5km az=150.0.
ISC III 14 17 14 46.6–.51 36.90N–.06 142.89E–.06 25 4.2b 66 2-146
NIED III 14 17 14 00 36.90N 142.70E 44 4.4W **¶16410999**
IDC III 14 17 14 43.0–.62 36.92N 142.97E 0 4.2,4.0
NEIC III 14 17 14 44.8–.65 36.91N 142.94E 11–4 4.8b,4.0
ISCJB III 14 17 14 45.0–.35 36.87N–.05 142.84E–.04 25 4.2b,4.0
JMA III 14 17 14 47.4–.30 36.95N 142.74E 66 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ41.00000°,λ-62.00000°. NP2:ϕ_s289.00000°,δ54.00000°,λ-112.00000°. M_o3.79000×10^{15}
IDC Error ellipse: s-maj=16.2km s-min=13.2km az=134.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.8km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.4km az=158.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 17 17 54.8–.92 37.20N–.07 142.52E–.07 9 3.6b 18 1-146
ISCJB III 14 17 17 53.3–.78 37.20N–.08 142.59E–.07 9 4.0s,3.6b **¶17195211**
JMA III 14 17 17 54.5–.40 37.32N 142.66E 38 4.1,3.6b
IDC III 14 17 17 59.6–3.9 37.11N 142.53E 43–36 4.0,4.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.5km az=2.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=35.1km s-min=19.7km az=88.0.
ISC III 14 17 26 04.7–.55 37.59N–.05 142.07E–.06 33–2 4.5b,3.8s 127 1-146
NIED III 14 17 26 00 37.60N 142.00E 20 4.3W,3.8s **¶16424497**
JMA III 14 17 26 03.3–.20 37.62N 142.04E 31 4.4,3.8s
ISCJB III 14 17 26 03.1–.69 37.57N–.03 142.09E–.05 36–5 4.5b,3.8s
IDC III 14 17 26 05.1–.60 37.60N 141.96E 34–3 4.4,4.3
NEIC III 14 17 26 06.2–.66 37.59N 142.02E 46–5 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ21.00000°,λ-60.00000°. NP2:ϕ_s347.00000°,δ72.00000°,λ-101.00000°. M_o3.59000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.0km az=16.4.
IDC Error ellipse: s-maj=12.5km s-min=10.9km az=137.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=125.0.
IDC III 14 17 31 14.0–1.4 37.93N 142.14E 0 3.8,3.5
¶602659325
IDC Error ellipse: s-maj=42.8km s-min=29.8km az=79.0.
ISC III 14 17 32 47.1–.66 37.06N–.05 143.61E–.07 35 3.8b 45 2-119
JMA III 14 17 32 45.9–.40 37.08N 143.55E 48 4.2 **¶602659322**
ISCJB III 14 17 32 45.4–.57 36.98N–.05 143.57E–.05 33 3.8b
IDC III 14 17 32 46.8–.93 36.94N 143.73E 35–6 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.8km az=149.3.
IDC Error ellipse: s-maj=20.2km s-min=16.6km az=109.0.
IDC III 14 17 38 15.3–1.4 34.43N 143.18E 0 3.8,3.6b
¶17195219
IDC Error ellipse: s-maj=36.7km s-min=29.7km az=82.0.
IDC III 14 17 45 48.2–2.7 39.18N 145.21E 0 3.6,3.4
¶17195221
IDC Error ellipse: s-maj=66.5km s-min=25.8km az=158.0.
ISC III 14 17 47 59.5–2.0 35.39N–.06 142.2E–.10 22–8 3.5b 21 1-59
JMA III 14 17 47 57.9–.30 35.46N 142.34E 60 3.1 **¶600545968**
IDC III 14 17 48 00.9–1.9 35.38N 141.64E 0 3.5,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=48.5km s-min=20.2km az=73.0.
ISC III 14 17 49 57.2–.60 37.78N–.06 144.61E–.06 25–3 4.6b 130 3-144
ISCJB III 14 17 49 56.5–1.5 37.90N–.04 144.53E–.03 25–10 4.5b **¶16318233**
NEIC III 14 17 49 57.4–.54 37.70N 144.59E 27–4 4.6b
IDC III 14 17 49 57.3–.64 37.59N 144.77E 33–5 4.2,4.2
JMA III 14 17 49 57.9–.30 37.84N 144.50E 59 4.8,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=178.1.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=159.0.
IDC Error ellipse: s-maj=14.3km s-min=12.4km az=134.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 17 59 00.1–3.5 37.23N–.08 142.27E–.09 23–24 3.7b 29 1-71
JMA III 14 17 58 53.1–.50 37.26N 142.48E 3–5 4.2 **¶16477928**
IDC III 14 17 58 55.8–1.0 37.15N 142.47E 0 3.9,3.8
ISCJB III 14 17 58 57.9–1.9 37.20N–.06 142.32E–.07 27–14 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 17 59 41.2–.39 37.19N–.03 142.41E–.03 24–2 5.5s,5.5b 1396 1-164
NIED III 14 17 59 00 37.20N 142.40E 11 5.6W,5.5b **¶17195224**
IDC III 14 17 59 36.9–.37 37.14N 142.48E 0 5.3s,5.3
BJI III 14 17 59 38.1 37.13N 142.25E 18 5.9s,5.7
JMA III 14 17 59 39.6–.20 37.16N 142.44E 22 5.8,5.7
ISCJB III 14 17 59 39.5–.63 37.16N–.02 142.38E–.02 21–4 5.5s,5.4b
NEIC III 14 17 59 41.1–.53 37.21N 142.25E 20–3 5.6W,5.4s
GCMT III 14 17 59 41.1–.10 37.23N 142.42E 16–0 5.7W,5.4s
MOS III 14 17 59 43.2–.85 37.56N 142.27E 34 5.8b,5.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ22.00000°,λ84.00000°. NP2:ϕ_s40.00000°,δ68.00000°,λ92.00000°. M_o2.66000×10^{17}
IDC Error ellipse: s-maj=11.2km s-min=9.4km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=166.6.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.6km az=148.0. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}1.77 $M_{\theta\theta}$-0.95 $M_{\phi\phi}$-0.81 $M_{r\theta}$1.79 $M_{\theta\phi}$-1.16 $M_{\phi r}$1.81 Best double couple: NP1:ϕ_s229.00000°,δ18.00000°,λ94.00000°. NP2:ϕ_s45.00000°,δ72.00000°,λ89.00000°. Principal axes: T 3.0400,Plg63.0000°,Azm313.0000° ; N 0.2700,Plg1.0000°,Azm45.0000°; P -3.3200,Plg27.0000°,Azm136.0000° M_o3.20000×10^{17}

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s103,c190; s126,c274;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}2.19±.04 $M_{\theta\theta}$-0.65±.02; $M_{\phi\phi}$-1.54±.03; $M_{r\theta}$2.38±.10; $M_{\theta\phi}$-1.15±.02; $M_{\phi r}$2.31±.10; Best double couple: NP1:ϕ_s44.00000° ,δ73.00000°,λ96.00000°. NP2:ϕ_s204.00000°,δ18.00000°,λ71.00000°. Principal axes: T 3.9790,Plg61.0000°,Azm323.0000°; N 0.0750,Plg6.0000°,Azm222.0000° ; P -4.0490,Plg28.0000°,Azm129.0000° M_o4.01400×10^{17}
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=103.2.
ISC III 14 18 01 30.3–.46 37.02N–.05 142.40E–.05 9 5.0b 72 1-150
ISCJB III 14 18 01 28.8–.32 37.01N–.04 142.46E–.03 9 5.4s,5.0b **¶16424492**
IDC III 14 18 01 28.9–.50 37.06N 142.46E 0 5.4,5.4s
MOS III 14 18 01 31.9–.82 36.99N 142.44E 33 5.3b,5.4s
JMA III 14 18 01 31.7–.20 37.09N 142.38E 16–3 5.4,5.4s
NEIC III 14 18 01 34.5–1.2 37.05N 142.36E 37–11 5.4b,5.4s
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.9km az=179.2.
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=121.0.
MOS Error ellipse: s-maj=11.8km s-min=10.1km az=108.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=120.0.
ISC III 14 18 04 04.3–.87 37.0N–.10 142.6E–.10 9 4.2b 12 4-146
ISCJB III 14 18 04 02.5–.75 37.0N–.10 142.6E–.10 9 4.1b **¶17195226**
IDC III 14 18 04 03.0–.76 37.01N 142.60E 0 4.3,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=15.6km az=14.0.
IDC Error ellipse: s-maj=22.1km s-min=20.5km az=79.0.
ISC III 14 18 06 40.9–1.0 37.05N–.08 142.6E–.10 9 4.1b 15 4-89
ISCJB III 14 18 06 39.3–.87 37.05N–.07 142.5E–.10 9 4.0b **¶17195227**
IDC III 14 18 06 39.7–1.1 37.12N 142.54E 0 4.1,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=9.2km az=8.6.
IDC Error ellipse: s-maj=28.0km s-min=19.5km az=69.0.
ISC III 14 18 08 43.1–.84 36.5N–.10 143.8E–.10 35 3.9b 16 5-76
IDC III 14 18 08 38.2–.97 36.56N 143.88E 0 4.1,3.9 **¶16320488**
ISCJB III 14 18 08 40.9–.76 36.40N–.09 143.8E–.10 33 3.9b,3.9
ISC Event type se.
ISCJB Event type se.
ISC III 14 18 15 55.7–1.2 37.1N–.10 143.4E–.20 35 3.7b 8 4-70
IDC III 14 18 15 50.5–1.1 37.08N 143.50E 0 3.8,3.7 **¶17195228**
ISCJB III 14 18 15 53.4–.00 37.0N–.10 143.4E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 18 18 52.7–3.2 37.97N–.05 142.47E–.09 8–18 3.6b 21 1-62
IDC III 14 18 18 51.1–2.2 38.08N 142.61E 0 3.6,3.5 **¶17195229**
JMA III 14 18 18 52.2–.30 38.07N 142.52E 1–4 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=22.3km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 14 18 21 39.5–.30 37.61N 142.28E 28 3.5
¶602659822
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 14 18 29 53.6–.79 37.08N–.06 142.96E–.08 25 3.8b 27 2-77
IDC III 14 18 29 49.9–.79 37.12N 143.05E 0 4.7,4.7s **¶17195230**
ISCJB III 14 18 29 52.1–.60 37.08N–.06 142.98E–.06 25 4.7s,3.8b
JMA III 14 18 29 53.2–.30 37.07N 142.82E 17 4.2,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=18.3km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.6km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 18 35 03.0–.77 37.7N–.10 144.2E–.10 35 3.8b 28 5-76
IDC III 14 18 34 57.9–.71 37.73N 144.27E 0 4.0,3.8 **¶16424495**
NEIC III 14 18 34 59.3–4.3 37.74N 144.23E 9–26 4.5b,3.8
ISCJB III 14 18 35 00.8–.53 37.70N–.06 144.11E–.08 33 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 18 40 14.1–.56 38.04N–.07 144.26E–.06 35 4.3b 76 3-118
IDC III 14 18 40 08.8–.55 37.99N 144.41E 0 5.0s,5.0 **¶602659783**
NEIC III 14 18 40 10.0–3.2 38.00N 144.33E 7–20 4.7b,5.0
JMA III 14 18 40 12.1–.50 38.11N 144.14E 29 4.5,5.0
ISCJB III 14 18 40 12.2–.31 38.01N–.04 144.19E–.04 33 4.4b,5.0
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
JMA III 14 18 48 37.9–.30 37.69N 142.19E 18 3.6
¶603049780
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 14 18 49 15.4–.89 37.90N–.10 144.4E–.10 35 3.7b 23 5-73
IDC III 14 18 49 10.7–.85 37.99N 144.47E 0 4.0,3.9 **¶16427585**
ISCJB III 14 18 49 13.3–.65 37.93N–.07 144.33E–.10 33 3.8b,3.9
NEIC III 14 18 49 15.5–.63 37.96N 144.37E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.3km s-min=16.3km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=8.6km az=37.5.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.8km az=131.0.
ISC III 14 18 55 52.5–.74 38.01N–.05 143.87E–.08 35 4.0b 43 2-76
IDC III 14 18 55 47.0–.74 37.93N 143.98E 0 4.1,4.0 **¶16427586**
JMA III 14 18 55 50.6–.20 38.05N 143.87E 53 4.4,4.0
ISCJB III 14 18 55 50.4–.51 38.00N–.04 143.86E–.05 33 4.0b,4.0
NEIC III 14 18 55 52.4–.44 37.94N 143.89E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=16.0km az=102.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.6km az=0.1.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.0km az=139.0.
ISC III 14 18 58 28.8–.86 37.91N–.05 143.69E–.08 19 4.0b 28 2-62
IDC III 14 18 58 26.3–.92 37.77N 143.85E 0 3.9,3.8 **¶600546060**
ISCJB III 14 18 58 27.4–.62 37.90N–.05 143.63E–.06 19 3.9b,3.8
NEIC III 14 18 58 28.1–10 37.78N 143.82E 11–62 4.2b,3.8
JMA III 14 18 58 29.0–.40 37.95N 143.63E 45 4.1,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=19.3km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=6.9km az=156.9.
NEIC Event type se. Error ellipse: s-maj=21.7km s-min=13.0km az=93.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 19 01 55.8–1.2 37.3N–.20 143.8E–.20 35 3.5b 6 5-61
IDC III 14 19 01 50.6–1.3 37.29N 143.97E 0 4.4,4.4s **¶17195232**
ISCJB III 14 19 01 53.2–1.1 37.3N–.20 143.8E–.20 33 4.4s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 19 04 47.3–.85 36.7N–.10 142.1E–.20 19 4.3b 13 23-80
IDC III 14 19 04 44.4–.83 36.70N 142.18E 0 4.4,4.2b **¶16427590**
ISCJB III 14 19 04 45.5–.70 36.6N–.10 142.1E–.20 19 4.2b,3.2s
NEIC III 14 19 04 49.7–.47 36.66N 142.08E 35 4.6b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=22.1km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=15.7km az=174.3.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=10.9km az=85.0.
ISC III 14 19 07 24.4–.90 38.2N–.10 143.2E–.10 19 4.0b 28 4-128
IDC III 14 19 07 21.7–.98 38.17N 143.30E 0 4.1,4.0 **¶16427591**
ISCJB III 14 19 07 22.6–.68 38.14N–.08 143.2E–.10 19 4.0b,4.0
NEIC III 14 19 07 22.8–4.4 38.15N 143.28E 8–27 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=17.1km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=10.2km az=37.6.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.2km az=110.0.
ISC III 14 19 11 04.3–1.5 37.7N–.10 142.2E–.10 24 3.7b 13 1-62
IDC III 14 19 10 58.8–2.2 37.87N 142.70E 0 3.8,3.7b **¶16477937**
ISCJB III 14 19 11 02.2–1.0 37.7N–.10 142.30E–.09 24 3.7b,3.7b
JMA III 14 19 11 06.5–.20 37.75N 141.99E 17–3 4.0,3.7b
ISC Event type ke.

IDC Error ellipse: s-maj=64.9km s-min=22.4km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=9.5km az=155.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 19 11 37.0–.67 37.42N–.07 142.77E–.08 24 4.2b 39 2-89
IDC III 14 19 11 33.3–.81 37.45N 142.82E 0 4.2,4.1 **¶17195233**
ISCJB III 14 19 11 34.9–.47 37.39N–.05 142.80E–.06 24 4.1b,4.1
JMA III 14 19 11 35.1–.20 37.47N 142.61E 0 4.7,4.1
NEIC III 14 19 11 36.1–3.5 37.46N 142.81E 17–21 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=15.5km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=143.4.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.1km az=114.0.
ISC III 14 19 12 23.0–1.2 37.5N–.10 144.1E–.10 35 3.8b 12 5-62
ISCJB III 14 19 12 20.4–.98 37.4N–.10 144.2E–.10 33 3.9b **¶16477939**
IDC III 14 19 12 23.3–5.8 37.39N 144.10E 37–48 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=16.9km az=163.3.
IDC Error ellipse: s-maj=32.1km s-min=20.6km az=82.0.
ISC III 14 19 12 59.4–1.0 38.9N–.20 143.5E–.30 20 4.0b 10 10-144
IDC III 14 19 12 56.1–1.1 38.97N 143.48E 0 4.1,3.9b **¶17195239**
ISCJB III 14 19 12 57.3–.98 38.9N–.20 143.5E–.30 20 3.9b,3.9b
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 19 16 42.3–2.3 37.03N 142.30E 0 3.7,3.6
¶17195240
IDC Error ellipse: s-maj=56.6km s-min=26.8km az=69.0.
ISC III 14 19 17 50.8–.77 37.4N–.10 143.92E–.08 35 3.8b 21 5-76
IDC III 14 19 17 45.2–.69 37.42N 144.17E 0 4.0,3.8 **¶17195242**
ISCJB III 14 19 17 48.5–.61 37.39N–.09 143.95E–.08 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 19 24 26.0–1.2 37.97N–.08 142.10E–.09 30 3.4b 19 1-58
IDC III 14 19 24 21.3–1.4 37.89N 142.03E 0 3.5,3.4 **¶17195243**
ISCJB III 14 19 24 24.4–.88 37.97N–.06 142.15E–.07 30 3.4b,3.4
JMA III 14 19 24 26.5–.20 38.02N 142.03E 39–4 4.0,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=28.4km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.8km az=150.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 19 27 15.9–.87 37.12N–.08 142.5E–.10 9 4.0b 22 1-75
ISCJB III 14 19 27 13.8–.64 37.04N–.07 142.6E–.10 9 3.9b **¶602443541**
IDC III 14 19 27 14.6–.96 37.12N 142.45E 0 4.0,4.0
JMA III 14 19 27 17.6–.20 37.19N 142.33E 11–4 4.1,4.0
NEIC III 14 19 27 19.8–.46 37.12N 142.43E 35 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=10.0km az=10.2.
IDC Error ellipse: s-maj=25.7km s-min=17.5km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.4km az=112.0.
ISC III 14 19 34 08.7–.47 39.10N–.06 143.03E–.06 16 4.6b 97 1-149
NIED III 14 19 34 00 39.30N 143.00E 8 4.6W **¶16427603**
JMA III 14 19 34 06.9–.40 39.31N 143.02E 0 5.0
ISCJB III 14 19 34 07.6–.31 39.16N–.05 143.07E–.04 16 4.5b
NEIC III 14 19 34 13.7–.69 39.11N 142.99E 55–6 4.7b
IDC III 14 19 34 13.4–2.3 39.13N 143.04E 53–20 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ51.00000°,λ-166.00000°. NP2:ϕ_s82.00000°,δ79.00000°,λ-40.00000°. $M_0$9.35000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=164.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.5km az=143.0.
IDC Error ellipse: s-maj=16.1km s-min=12.6km az=143.0.
ISC III 14 19 38 13.8–1.1 37.75N–.06 142.08E–.08 30 3.5b 16 1-58
IDC III 14 19 38 09.5–1.4 37.77N 142.38E 0 3.7,3.6 **¶600546090**
ISCJB III 14 19 38 12.2–.92 37.71N–.06 142.18E–.08 30 3.5b,3.6
JMA III 14 19 38 14.1–.20 37.74N 141.95E 14–3 4.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=24.9km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=9.0km s-min=8.1km az=160.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 19 41 59.6–.71 37.06N–.09 144.39E–.10 26 4.1b 41 5-84
IDC III 14 19 41 55.6–.64 37.11N 144.46E 0 4.2,4.1 **¶602659249**
ISCJB III 14 19 41 57.6–.52 37.04N–.06 144.36E–.08 26 4.1b,4.1
NEIC III 14 19 42 01.0–.33 37.10N 144.39E 35 4.3b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=17.4km s-min=13.9km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.3km az=33.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.5km az=135.0.
ISC III 14 19 48 45.1–.46 36.20N–.06 143.74E–.08 35 4.4b 61 4-153
IDC III 14 19 48 40.4–.52 36.33N 143.72E 0 4.4,4.4b **¶16442356**
NEIC III 14 19 48 42.9–3.1 36.28N 143.77E 18–19 4.6b,4.4b
ISCJB III 14 19 48 43.1–.37 36.22N–.05 143.68E–.06 33 4.4b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 14 19 53 32.7–1.4 37.27N 144.17E 0 3.7,3.6
¶17195247
IDC Error ellipse: s-maj=39.8km s-min=23.2km az=119.0.
ISC III 14 19 56 36.5–.77 37.5N–.10 142.40E–.08 21 4.0b 32 1-89
NIED III 14 19 56 00 36.60N 141.90E 23 3.9W **¶602659239**
ISCJB III 14 19 56 33.6–.54 37.40N–.07 142.48E–.07 21 3.9b
IDC III 14 19 56 33.4–.73 37.55N 142.40E 0 4.1,3.9
NEIC III 14 19 56 36.7–4.8 37.60N 142.43E 22–34 4.2b,3.9
JMA III 14 19 56 44.2–.20 36.61N 141.93E 48 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s287.00000°,δ13.00000°,λ-145.00000°. NP2:ϕ_s163.00000°,δ83.00000°,λ-79.00000°. $M_0$9.26000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.6km az=141.8.
IDC Error ellipse: s-maj=20.7km s-min=17.5km az=109.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=11.7km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 14 20 07 30.8–.82 36.7N–.10 144.6E–.10 35 3.9b 26 5-88
IDC III 14 20 07 25.8–.78 36.74N 144.71E 0 4.0,3.9 **¶16442359**
NEIC III 14 20 07 26.8–4.4 36.71N 144.71E 6–27 4.2b,3.9
ISCJB III 14 20 07 28.6–.65 36.63N–.08 144.6E–.10 33 3.8b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 14 20 08 59.5–.74 37.76N–.10 144.3E–.10 35 3.9b 40 5-118
IDC III 14 20 08 54.1–.71 37.80N 144.30E 0 4.1,4.0 **¶16442360**
ISCJB III 14 20 08 57.4–.53 37.76N–.06 144.22E–.08 33 4.0b,4.0
NEIC III 14 20 08 59.8–1.1 37.81N 144.26E 37–8 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=14.3km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=7.9km az=42.8.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.6km az=110.0.
ISC III 14 20 10 41.4–.58 36.64N–.08 143.64E–.10 35 4.2b 28 5-145
IDC III 14 20 10 36.2–.54 36.64N 143.83E 0 4.3,4.1 **¶16442364**
ISCJB III 14 20 10 39.6–.47 36.57N–.06 143.57E–.09 33 4.2b,4.1
NEIC III 14 20 10 41.6–.38 36.67N 143.71E 35 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=14.2km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.8km az=30.9.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=10.1km az=89.0.
ISC III 14 20 11 58.8–.61 38.03N–.06 144.18E–.07 35 4.0b 49 3-118
IDC III 14 20 11 53.3–.71 38.02N 144.29E 0 4.1,4.0L **¶16442365**
NEIC III 14 20 11 55.8–3.7 38.02N 144.32E 16–23 4.6b,4.0L
ISCJB III 14 20 11 57.0–.45 38.06N–.05 144.11E–.05 33 4.0b,4.0L
JMA III 14 20 11 59.0–.40 38.12N 143.98E 57 4.6,4.0L
ISC Event type se.

IDC Error ellipse: s-maj=18.8km s-min=16.2km az=114.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.4km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.4km az=5.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 20 14 41.4–.99 37.58N–.09 142.7E–.10 21 3.7b 14 4-69
IDC III 14 20 14 38.8–1.1 37.65N 142.54E 0 3.9L,3.8 **¶17195249**
ISCJB III 14 20 14 39.4–.80 37.56N–.06 142.7E–.20 21 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 20 23 28.0–.50 36.62N–.06 143.14E–.06 29 4.4b 81 2-146
IDC III 14 20 23 23.5–.57 36.63N 143.23E 0 4.4,4.3 **¶602659220**
ISCJB III 14 20 23 26.9–.38 36.67N–.05 143.07E–.04 29 4.3b,4.3s
NEIC III 14 20 23 26.4–2.8 36.65N 143.29E 18–16 4.5b,4.3s
JMA III 14 20 23 28.1–.20 36.65N 143.00E 37 4.5,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=15.2km s-min=12.0km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.9km az=156.9.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.5km az=143.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 14 20 29 31.5–.69 36.50N–.10 144.52E–.08 35 4.0b 37 5-88
IDC III 14 20 29 26.5–.69 36.58N 144.57E 0 4.1,4.0 **¶16442368**
ISCJB III 14 20 29 29.6–.49 36.49N–.06 144.48E–.07 33 3.9b,4.0
NEIC III 14 20 29 31.4–3.7 36.52N 144.57E 34–25 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=15.6km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.6km az=147.7.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.7km az=124.0.
ISC III 14 20 44 40.4–.83 38.4N–.10 144.6E–.20 29 4.0b 10 25-75
IDC III 14 20 44 36.1–.84 38.39N 144.66E 0 4.1,4.0 **¶17195254**
ISCJB III 14 20 44 38.6–.68 38.4N–.10 144.6E–.20 29 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 20 45 45.6–.73 36.8N–.10 142.8E–.10 35 4.2b 38 2-146
NIED III 14 20 45 00 37.40N 141.20E 5 4.1W **¶16442369**
IDC III 14 20 45 41.0–.76 36.87N 142.75E 0 4.2,4.1
ISCJB III 14 20 45 44.5–.58 36.86N–.09 142.72E–.08 35 4.1b,3.3s
NEIC III 14 20 45 46.5–.53 36.95N 142.74E 35 4.6b,3.3s
JMA III 14 20 45 48.9–.10 37.36N 141.20E 30–1 3.7,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ42.00000°,λ-94.00000°. NP2:ϕ_s336.00000°,δ48.00000°,λ-86.00000°. $M_0$1.54000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=16.5km az=174.0.
ISCJB Event type fe. Error ellipse: s-maj=13.5km s-min=8.7km az=163.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.6km az=158.0.
JMA Event type fe.
ISC III 14 20 48 24.9–1.3 37.8N–.10 143.8E–.20 35 3.9b 20 3-75
JMA III 14 20 48 18.4–.30 39.04N 142.40E 20–3 3.9 **¶16442370**
IDC III 14 20 48 19.5–1.3 37.88N 143.98E 0 3.9,3.8
NEIC III 14 20 48 25.2–.77 37.84N 143.82E 35 4.3b,3.8
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=34.0km s-min=19.6km az=75.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=13.2km az=84.0.
ISC III 14 20 52 14.4–1.4 37.29N–.09 142.4E–.10 21 3.6b 16 1-61
IDC III 14 20 52 10.2–1.9 37.38N 142.72E 0 3.7,3.7 **¶17195255**
ISCJB III 14 20 52 12.5–.89 37.24N–.07 142.46E–.08 21 3.6b,3.7
JMA III 14 20 52 15.8–.40 37.42N 142.26E 32 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=53.5km s-min=20.2km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=9.0km az=5.9.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 14 21 01 21.3–.49 39.17N–.05 143.47E–.06 20 4.2b 75 2-145
NIED III 14 21 01 00 39.30N 143.40E 5 4.3W **¶16461725**
ISCJB III 14 21 01 19.6–.36 39.18N–.03 143.44E–.04 20 4.2b
NEIC III 14 21 01 20.0–2.0 39.10N 143.47E 13–12 4.6b
JMA III 14 21 01 20.6–.30 39.29N 143.43E 17 4.4
IDC III 14 21 01 22.7–4.4 39.08N 143.42E 31–32 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s100.00000°,δ24.00000°,λ-22.00000°. NP2:ϕ_s210.00000°,δ81.00000°,λ-112.00000°. $M_0$3.63000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.1km az=35.7.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.5km az=117.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=12.5km az=114.0.
ISC III 14 21 09 44.5–1.4 39.8N–.10 143.5E–.20 6 3.6b 8 5-60
ISCJB III 14 21 09 42.3–1.2 39.7N–.10 143.6E–.20 6 3.5b **¶17195258**
IDC III 14 21 09 43.7–1.5 39.78N 143.49E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.4km s-min=12.5km az=19.7.
IDC Error ellipse: s-maj=37.0km s-min=20.8km az=98.0.
ISC III 14 21 12 26.5–.59 37.23N–.07 142.40E–.07 10 4.3b 58 1-146
IDC III 14 21 12 25.0–.68 37.27N 142.42E 0 4.2,4.2b **¶16477967**
ISCJB III 14 21 12 24.8–.43 37.20N–.05 142.41E–.06 10 4.2b,4.2b
JMA III 14 21 12 27.0–.30 37.32N 142.31E 20 4.3,4.2b
NEIC III 14 21 12 31.1–.97 37.25N 142.33E 44–8 4.4b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=149.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.8km az=128.0.
ISC III 14 21 13 54.6–.55 36.69N–.07 143.19E–.09 29 4.2b 43 4-146
IDC III 14 21 13 50.4–.55 36.76N 143.27E 0 4.3,4.2 **¶16477968**
ISCJB III 14 21 13 53.0–.48 36.66N–.06 143.09E–.08 29 4.2b,4.2
NEIC III 14 21 13 55.9–.45 36.84N 143.18E 35 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=13.9km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=7.1km az=31.2.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.5km az=167.0.
ISC III 14 21 14 39.8–.78 36.0N–.10 142.45E–.10 18 4.2b 30 11-90
IDC III 14 21 14 36.9–.82 35.97N 142.38E 0 4.4,4.2 **¶16477972**
ISCJB III 14 21 14 38.0–.57 35.99N–.09 142.37E–.08 18 4.2b,4.2
NEIC III 14 21 14 42.2–.43 36.01N 142.37E 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=17.5km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=9.6km az=162.7.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.8km az=155.0.
IDC III 14 21 21 36.2–2.7 36.08N 142.16E 0 3.5,3.5
¶17195261
IDC Error ellipse: s-maj=63.0km s-min=26.5km az=67.0.
ISC III 14 21 23 05.9–1.1 36.6N–.10 143.7E–.10 35 3.6b 11 4-75
IDC III 14 21 23 00.5–1.3 36.66N 143.95E 0 3.8,3.7 **¶17195262**
ISCJB III 14 21 23 04.5–1.0 36.52N–.09 143.6E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 14 21 46 30.7–.77 37.68N–.07 143.04E–.08 24 3.9b 39 2-74
IDC III 14 21 46 27.1–.82 37.84N 143.28E 0 3.8,3.8L **¶16477978**
ISCJB III 14 21 46 29.4–.56 37.70N–.05 143.00E–.06 24 3.8b,3.8L
JMA III 14 21 46 30.8–.40 37.72N 142.90E 30 4.2,3.8L
NEIC III 14 21 46 32.6–.69 37.79N 143.17E 35 4.2b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=16.2km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.4km az=144.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=12.8km az=114.0.
ISC III 14 21 53 41.8–.90 36.3N–.10 144.0E–.10 35 4.0b 20 5-89
IDC III 14 21 53 36.8–1.4 36.38N 144.03E 0 4.1,3.9 **¶603049786**
ISCJB III 14 21 53 39.7–.74 36.3N–.10 144.0E–.10 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 21 57 58.2–3.1 37.18N 142.74E 0 3.8,3.6
¶17195269

IDC Error ellipse: s-maj=77.7km s-min=29.9km az=59.0.
ISC III 14 22 01 47.1–.91 37.8N–.10 144.2E–.20 35 3.7b 11 6-74
IDC III 14 22 01 41.9–.83 37.80N 144.24E 0 4.1L,3.8 ¶17195270
ISCJB III 14 22 01 44.9–.75 37.74N–.10 144.2E–.20 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 22 07 01.4–2.0 37.18N 144.03E 0 4.2,4.2
¶17195271
IDC Error ellipse: s-maj=43.9km s-min=29.4km az=72.0.
ISC III 14 22 12 03.2–.53 36.79N–.06 142.11E–.06 19 4.0b 50 1-146
NIED III 14 22 12 00 36.90N 142.20E 29 4.3W ¶602659070
ISCJB III 14 22 12 00.9–.40 36.75N–.03 142.21E–.06 19 4.2s,4.0b
IDC III 14 22 12 00.3–.63 36.81N 142.20E 0 4.1,4.0
NEIC III 14 22 12 02.2–2.4 36.82N 142.17E 13–15 4.3b,4.0
JMA III 14 22 12 03.0–.60 36.88N 142.19E 24 4.3,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ16.00000°,λ88.00000°. NP2:ϕ_s22.00000°,δ74.00000°,λ91.00000°. $M_0$3.26000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.0km az=8.4.
IDC Error ellipse: s-maj=16.2km s-min=13.9km az=116.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=108.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 14 22 26 42.9–.52 37.27N–.05 143.67E–.06 35 4.4b 101 2-118
NIED III 14 22 26 00 37.20N 143.60E 5 4.2W ¶16461729
IDC III 14 22 26 37.5–.53 37.16N 143.73E 0 4.5,4.4
JMA III 14 22 26 40.8–.30 37.21N 143.62E 48 4.5,4.4
ISCJB III 14 22 26 41.3–.32 37.16N–.04 143.58E–.04 33 4.3b,4.3s
NEIC III 14 22 26 42.9–.32 37.22N 143.68E 35 4.5b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ39.00000°,λ-92.00000°. NP2:ϕ_s231.00000°,δ51.00000°,λ-88.00000°. $M_0$2.64000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=12.2km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=162.8.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.1km az=132.0.
ISC III 14 22 30 55.1–.58 38.45N–.07 144.35E–.09 29 4.2b 55 5-118
IDC III 14 22 30 51.4–.80 38.61N 144.32E 0 4.1,4.0 ¶602659033
ISCJB III 14 22 30 53.3–.41 38.54N–.06 144.34E–.07 29 4.2b,4.0
NEIC III 14 22 30 54.8–.36 38.59N 144.40E 25 4.8b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=16.2km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.7km az=135.2.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.2km az=156.0.
ISC III 14 22 32 32.1–.39 37.29N–.05 142.74E–.06 21 4.5b 129 2-154
JMA III 14 22 32 29.7–.30 37.48N 142.57E 0 4.6 ¶602659029
ISCJB III 14 22 32 30.6–.23 37.32N–.03 142.73E–.04 21 4.5b,3.3s
NEIC III 14 22 32 31.9–2.9 37.39N 142.66E 16–18 4.8b,3.3s
IDC III 14 22 32 35.1–2.8 37.43N 142.63E 38–24 4.4,4.3
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=153.5.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=122.0.
IDC Error ellipse: s-maj=13.5km s-min=10.9km az=96.0.
ISC III 14 22 37 11.7–1.6 36.67N–.10 143.6E–.10 35 3.8b 9 4-61
IDC III 14 22 37 06.7–2.4 36.92N 143.64E 0 3.8,3.7 ¶17195273
ISCJB III 14 22 37 09.1–1.2 36.8N–.10 143.7E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 14 22 43 21.4–3.4 37.67N 144.47E 0 3.9,3.5
¶603049790
IDC Error ellipse: s-maj=330.1km s-min=28.0km az=113.0.
IDC III 14 23 05 48.0–5.5 39.13N 143.06E 0 3.7,3.6
¶17195286
IDC Error ellipse: s-maj=133.1km s-min=32.0km az=167.0.
ISC III 14 23 07 32.4–1.4 36.8N–.10 142.8E–.10 35 3.5b 17 2-118
NIED III 14 23 07 00 36.90N 142.50E 17 3.6W ¶17195287
IDC III 14 23 07 22.0–3.1 36.30N 143.61E 0 3.7,3.7
ISCJB III 14 23 07 32.8–1.1 37.0N–.10 142.72E–.09 35 3.6b,3.7
JMA III 14 23 07 33.4–.50 36.90N 142.55E 39 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s323.00000°,δ14.00000°,λ-113.00000°. NP2:ϕ_s167.00000°,δ77.00000°,λ-84.00000°. $M_0$3.15000×10^{14}
IDC Error ellipse: s-maj=66.3km s-min=35.8km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=9.9km az=12.8.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC III 14 23 08 48.4–1.0 38.71N–.06 144.22E–.09 14 4.0b 33 2-71
IDC III 14 23 08 45.9–1.6 38.57N 144.34E 0 4.0,3.9b ¶602658972
ISCJB III 14 23 08 48.1–.81 38.80N–.05 144.12E–.07 14 3.8b,3.9b
JMA III 14 23 08 49.9–.30 38.76N 144.18E 44 4.3,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=36.3km s-min=26.5km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=33.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 14 23 13 12.9–.57 37.20N–.04 142.12E–.05 10 3.9b 49 1-146
NIED III 14 23 13 00 37.20N 141.90E 17 3.7W ¶600546396
ISCJB III 14 23 13 11.8–.42 37.16N–.03 142.18E–.05 10 4.0b
IDC III 14 23 13 11.9–.80 37.19N 142.36E 0 4.0,3.9
NEIC III 14 23 13 16.8–.33 37.16N 142.37E 35 4.5b,3.9
JMA III 14 23 13 17.2–.40 37.24N 141.92E 33–5 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ16.00000°,λ169.00000°. NP2:ϕ_s346.00000°,δ87.00000°,λ74.00000°. $M_0$4.10000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.6km az=25.7.
IDC Error ellipse: s-maj=20.9km s-min=16.1km az=113.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.4km az=130.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 14 23 17 42.3–.51 37.80N–.04 144.14E–.07 35 4.5b 83 3-118
IDC III 14 23 17 37.5–.69 37.73N 144.25E 0 4.2,4.1 ¶16478006
ISCJB III 14 23 17 40.5–.30 37.74N–.04 144.08E–.04 33 4.4b,4.1
JMA III 14 23 17 41.3–.40 37.83N 144.07E 50 4.6,4.1
NEIC III 14 23 17 41.5–2.5 37.64N 144.26E 29–18 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=15.3km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=170.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.7km az=128.0.
JMA III 14 23 19 23.5–.40 37.56N 142.70E 20 4.0
¶602658953
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 14 23 20 09.2–1.3 36.08N 142.03E 0 3.6,3.5b
¶600546403
IDC Error ellipse: s-maj=32.4km s-min=29.7km az=64.0.
ISC III 14 23 21 59.6–.74 40.42N–.08 143.97E–.07 16 4.2b 85 2-86
IDC III 14 23 21 56.7–1.5 40.30N 143.96E 0 4.0,3.9b ¶16478009
ISCJB III 14 23 21 57.6–.52 40.33N–.07 143.90E–.06 16 4.4b,3.9b
MOS III 14 23 22 00.2–.99 40.35N 143.73E 33 5.2b,3.9b
NEIC III 14 23 22 02.2–.55 40.39N 143.85E 35 5.2b,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=37.8km s-min=18.1km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.8km az=170.3.
MOS Error ellipse: s-maj=13.7km s-min=9.3km az=101.3.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=7.8km az=156.0.
ISC III 14 23 23 10.5–.37 39.88N–.04 143.23E–.03 24–2 5.0b,4.9s 655 1-146
NIED III 14 23 23 00 39.90N 143.40E 14 5.0W,4.9s ¶602442352
IDC III 14 23 23 06.0–.48 39.77N 143.38E 0 4.8,4.7
JMA III 14 23 23 08.2–.40 39.87N 143.41E 17 5.0,4.7
ISCJB III 14 23 23 09.6–.86 39.88N–.03 143.19E–.03 26–5 5.0b,4.8s
BJI III 14 23 23 09.6 39.79N 142.87E 20 5.1b,5.1b
MOS III 14 23 23 10.5–.96 40.02N 143.23E 29 5.3b,5.1b
NEIC III 14 23 23 11.5–.85 39.87N 142.98E 24–6 5.0b,5.1b
GCMT III 14 23 23 11.5–.30 39.82N 143.53E 24–1 5.0W,5.1b

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ23.00000°,λ41.00000°. NP2:ϕ_s37.00000°,δ75.00000°,λ108.00000°. $M_0$3.29000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=10.9km az=147.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.8km az=140.9.
MOS Error ellipse: s-maj=6.7km s-min=3.9km az=105.3.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.2km az=154.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c50; s83,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.98±.19 $M_{\theta\theta}$-0.54±.10; $M_{\phi\phi}$-2.44±.12; $M_{r\theta}$1.05±.14; $M_{\theta\phi}$-0.51±.06; $M_{\phi r}$2.53±.15; Best double couple: NP1:ϕ_s20.00000°,δ67.00000°,λ94.00000°. NP2:ϕ_s190.00000°,δ23.00000°,λ81.00000°. Principal axes: T 4.1150,Plg67.0000°,Azm297.0000°; N -0.4340,Plg3.0000°,Azm198.0000°; P -3.6760,Plg22.0000°,Azm107.0000° $M_0$3.89600×10^{16}
ISC III 14 23 25 07.9–.60 37.56N–.06 143.77E–.07 35 4.5b 37 2-145
IDC III 14 23 25 02.5–.64 37.60N 143.93E 0 4.5,4.3 ¶16477681
ISCJB III 14 23 25 05.8–.44 37.55N–.05 143.74E–.04 33 4.3b,3.9s
JMA III 14 23 25 06.7–.40 37.60N 143.64E 32 4.9,3.9s
NEIC III 14 23 25 07.9–1.8 37.59N 143.86E 37–16 4.6b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=16.8km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=172.1.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=9.4km az=94.0.
ISC III 14 23 29 19.7–.91 38.20N–.07 143.93E–.07 35 3.7b 31 2-75
IDC III 14 23 29 14.2–.87 38.02N 144.04E 0 4.0,3.8 ¶17195291
ISCJB III 14 23 29 17.8–.66 38.18N–.05 143.90E–.06 33 3.8b,3.8
JMA III 14 23 29 18.3–.40 38.19N 143.88E 44 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=19.4km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.6km az=10.1.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 14 23 32 08.8–.50 38.04N 144.52E 61 4.0
¶602658941
JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
ISC III 14 23 38 23.5–.59 36.99N–.04 144.01E–.05 28–3 4.8b,4.0s 294 3-153
NIED III 14 23 38 00 37.00N 143.80E 8 4.6W,4.0s ¶602658922
IDC III 14 23 38 18.9–.41 36.91N 144.12E 0 4.7,4.6
JMA III 14 23 38 23.4–.40 36.95N 143.81E 53 4.6,4.6
NEIC III 14 23 38 23.1–1.6 36.90N 144.02E 24–11 4.9b,4.6
ISCJB III 14 23 38 23.4–.17 36.97N–.03 143.85E–.02 37 4.8b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ29.00000°,λ-108.00000°. NP2:ϕ_s245.00000°,δ63.00000°,λ-80.00000°. $M_0$9.36000×10^{15}
NEIC Event type se.
ISCJB Event type ke.
JMA III 14 23 40 56.2–.40 37.40N 142.47E 0 4.0
¶602658921
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 15 00 03 27.9–.98 37.7N–.20 143.8E–.10 35 4.0b 13 11-73
IDC III 15 00 03 22.8–.90 37.69N 143.72E 0 4.1,4.0b ¶17195953
ISCJB III 15 00 03 25.6–.77 37.7N–.10 143.7E–.20 33 3.9b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 00 07 51.3–.98 38.62N–.07 143.24E–.09 23 3.9b 23 2-74
NIED III 15 00 07 00 38.70N 143.00E 17 4.0W ¶17195955
IDC III 15 00 07 46.8–.96 38.44N 143.39E 0 4.1L,4.0
ISCJB III 15 00 07 49.4–.74 38.58N–.06 143.28E–.07 23 3.8b,4.0
JMA III 15 00 07 51.0–.30 38.67N 143.00E 9 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ78.00000°,λ6.00000°. NP2:ϕ_s154.00000°,δ84.00000°,λ168.00000°. $M_0$1.14000×10^{15}
IDC Error ellipse: s-maj=27.8km s-min=16.7km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.1km az=141.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 00 09 57.2–1.9 37.3N–.20 144.2E–.20 35 3.9b 9 5-61
IDC III 15 00 09 51.5–2.4 37.35N 144.36E 0 3.8,3.7 ¶17195956
ISCJB III 15 00 09 54.9–1.3 37.3N–.10 144.2E–.20 33 3.8b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 00 10 41.3–.96 37.2N–.10 144.0E–.10 35 3.8b 15 5-88
IDC III 15 00 10 36.0–.88 37.17N 144.10E 0 4.0,3.9 ¶17195959
ISCJB III 15 00 10 39.2–.76 37.1N–.10 144.0E–.10 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 00 19 59.3–.43 36.10N–.06 142.32E–.06 18 4.4b,3.2s 84 1-147
IDC III 15 00 19 57.0–.51 36.19N 142.24E 0 4.3,4.2 ¶602662425
ISCJB III 15 00 19 57.6–.27 36.10N–.04 142.27E–.05 18 4.4b,3.1s
JMA III 15 00 19 59.6–.30 36.26N 142.23E 79 3.6,3.1s
NEIC III 15 00 20 02.0–.24 36.13N 142.24E 35 4.6b,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=13.2km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=29.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.6km az=167.0.
ISC III 15 00 22 23.9–1.0 38.5N–.10 144.9E–.10 10 3.9b 13 6-75
IDC III 15 00 22 22.3–.93 38.47N 144.92E 0 4.0,3.9b ¶17195961
ISCJB III 15 00 22 22.1–.82 38.4N–.10 144.8E–.10 10 3.8b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 00 41 05.4–.48 39.35N–.05 144.35E–.05 23 4.6b,3.6s 154 2-144
IDC III 15 00 41 00.8–.59 39.17N 144.42E 0 4.5,4.4 ¶602662400
JMA III 15 00 41 04.9–.30 39.38N 144.25E 40 4.8,4.4
ISCJB III 15 00 41 04.3–.23 39.40N–.03 144.22E–.03 23 4.5b,3.6s
NEIC III 15 00 41 07.6–.26 39.32N 144.25E 39 4.6b,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=139.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=168.6.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.4km az=160.0.
ISC III 15 00 46 08.9–.78 38.0N–.10 144.0E–.10 35 3.9b 24 5-88
IDC III 15 00 46 03.6–.67 37.97N 144.08E 0 4.2,4.0 ¶16478037
ISCJB III 15 00 46 06.7–.55 37.97N–.09 143.94E–.08 33 4.0b,4.0
NEIC III 15 00 46 08.8–.39 37.97N 144.00E 35 4.8b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=15.4km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=8.6km az=155.2.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.9km az=151.0.
ISC III 15 00 46 32.5–.72 36.24N–.07 142.03E–.09 19 4.1b 20 1-147
IDC III 15 00 46 29.7–1.0 36.23N 142.14E 0 4.3,4.1 ¶600546570
ISCJB III 15 00 46 31.6–.59 36.32N–.06 142.07E–.10 19 4.0b,4.1
JMA III 15 00 46 37.4–.50 36.38N 141.63E 28 3.3,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=18.9km az=167.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.2km az=33.5.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 15 00 48 58.4–.80 36.18N–.09 142.1E–.10 23 3.8b 14 3-78
IDC III 15 00 48 54.9–.82 36.20N 142.15E 0 3.9,3.7 ¶602662380
ISCJB III 15 00 48 56.5–.69 36.15N–.07 142.1E–.10 23 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 01 10 42.6–1.1 37.52N 144.75E 0 3.7,3.6L
¶17195968
IDC Error ellipse: s-maj=36.2km s-min=23.8km az=138.0.
ISC III 15 01 12 46.7–1.1 36.27N–.08 142.11E–.08 19 3.6b 17 1-75
IDC III 15 01 12 46.0–1.0 36.78N 142.61E 0 3.8,3.7 ¶17195969
JMA III 15 01 13 01.7–.20 35.81N 141.19E 17–1 3.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=19.8km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

IDC III 15 01 14 57.5–2.6 37.04N 144.03E 0 3.6,3.5
¶17195970

IDC Error ellipse: s-maj=72.5km s-min=24.1km az=62.0.
ISC III 15 01 16 57.4–1.0 38.51N–.09 144.3E–.20 29 3.8b 15 5-74
IDC III 15 01 16 53.0–.96 38.57N 144.44E 0 4.0,3.9 **¶17195971**
ISCJB III 15 01 16 55.4–.82 38.46N–.07 144.2E–.20 29 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 01 19 36.1–1.1 37.21N–.08 142.4E–.20 36–4 4.0b 24 1-146
NIED III 15 01 19 00 37.30N 142.30E 29 3.9W **¶17195972**
IDC III 15 01 19 30.4–1.1 37.23N 142.60E 0 4.0,4.0b
JMA III 15 01 19 34.4–.30 37.30N 142.29E 10 4.0,4.0b
ISCJB III 15 01 19 34.4–1.4 37.18N–.06 142.48E–.10 41–12 3.9b,4.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ28.00000°,λ-150.00000°. NP2:ϕ_s231.00000°,δ76.00000°,λ-65.00000°. M_o8.31000×10^{14}
ISCJB Event type ke.
IDC III 15 01 25 06.9–1.7 38.65N 144.78E 0 4.0,4.0s
¶17195973

IDC Error ellipse: s-maj=50.9km s-min=24.1km az=72.0.
ISC III 15 01 27 49.0–1.1 39.08N–.08 143.36E–.09 20 3.8b 19 2-59
IDC III 15 01 27 45.6–1.3 38.94N 143.39E 0 3.8,3.6 **¶602662332**
ISCJB III 15 01 27 47.6–.86 39.05N–.07 143.37E–.08 20 3.5b,3.6
JMA III 15 01 27 48.5–.30 39.08N 143.13E 0 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=21.8km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=8.4km az=155.4.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 15 01 28 21.6–.63 39.12N–.06 143.60E–.07 20 4.0b 43 2-145
ISCJB III 15 01 28 20.8–.54 39.23N–.04 143.52E–.06 20 3.9b **¶602662330**
JMA III 15 01 28 22.5–.40 39.26N 143.45E 26 4.5
IDC III 15 01 28 24.4–4.5 39.06N 143.40E 34–35 4.0,4.0
NEIC III 15 01 28 24.7–1.3 39.10N 143.39E 35–11 4.4b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.2km az=35.3.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=14.8km az=108.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.9km az=114.0.
ISC III 15 01 51 00.6–.91 37.3N–.10 144.17E–.10 35 3.9b 17 5-76
IDC III 15 01 50 55.7–.91 37.44N 144.36E 0 4.0,3.9 **¶17195979**
ISCJB III 15 01 50 58.9–.76 37.33N–.10 144.12E–.09 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 01 54 44.1–.93 37.10N–.06 142.00E–.07 19 3.5b 17 1-83
IDC III 15 01 54 41.3–1.1 37.14N 142.17E 0 3.9L,3.8 **¶602663116**
ISCJB III 15 01 54 42.3–.79 37.08N–.05 142.14E–.07 19 3.5b,3.8
JMA III 15 01 54 45.1–.20 37.17N 142.03E 30–3 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=22.0km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.1km az=166.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 01 56 36.1–.81 37.43N–.06 144.10E–.08 35 3.7b 30 3-73
IDC III 15 01 56 30.6–.88 37.26N 144.32E 0 3.9,3.7 **¶600546669**
JMA III 15 01 56 34.6–.30 37.44N 144.04E 55 4.1,3.7
ISCJB III 15 01 56 34.1–.63 37.38N–.05 144.05E–.05 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 02 02 35.1–5.5 35.68N 142.81E 0 3.5,3.4
¶603310077

IDC Error ellipse: s-maj=127.9km s-min=37.4km az=176.0.
ISC III 15 02 11 24.0–1.9 36.8N–.20 143.4E–.20 35 3.7b 8 4-61
IDC III 15 02 11 18.1–2.3 36.84N 143.60E 0 3.9,3.8 **¶17195985**
ISCJB III 15 02 11 21.4–1.4 36.7N–.20 143.5E–.20 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 02 12 35.7–1.0 37.1N–.20 143.8E–.20 35 3.7b 8 11-73
IDC III 15 02 12 30.4–.89 37.07N 143.91E 0 3.8,3.7b **¶17195986**
ISCJB III 15 02 12 33.5–.85 37.1N–.10 143.7E–.20 33 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 02 15 44.4–.62 36.44N–.07 143.12E–.07 29 4.1b 48 2-146
IDC III 15 02 15 39.8–.64 36.41N 143.29E 0 4.2,4.1 **¶602663094**
NEIC III 15 02 15 40.6–2.9 36.40N 143.31E 6–18 4.4b,4.1
ISCJB III 15 02 15 42.8–.49 36.46N–.06 143.12E–.05 29 4.1b,3.8s
JMA III 15 02 15 43.7–.30 36.51N 142.82E 3 4.2,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=16.3km s-min=14.9km az=165.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.4km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.9km az=162.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 15 02 28 41.5–1.5 39.0N–.10 144.4E–.20 19 3.6b 9 5-63
IDC III 15 02 28 38.3–1.3 38.93N 144.49E 0 3.7,3.6 **¶17195987**
ISCJB III 15 02 28 39.5–1.1 38.9N–.10 144.4E–.20 19 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 02 37 57.1–.56 37.33N–.05 144.23E–.06 35 4.2b,3.3s 69 3-88
IDC III 15 02 37 51.8–.57 37.31N 144.38E 0 4.3,4.2 **¶16424501**
NEIC III 15 02 37 53.5–.34 37.32N 144.39E 10 4.6b,4.2
ISCJB III 15 02 37 55.8–.40 37.39N–.04 144.13E–.04 33 4.2b,3.4s
JMA III 15 02 37 56.2–.40 37.41N 144.09E 50 4.6,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=13.6km az=138.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.2km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=167.1.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 15 02 41 56.1–1.2 38.2N–.20 144.2E–.10 35 3.7b 9 5-75
IDC III 15 02 41 50.6–1.2 38.17N 144.45E 0 3.7,3.6b **¶17195994**
ISCJB III 15 02 41 54.0–1.1 38.1N–.20 144.2E–.10 33 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 02 47 37.6–.94 36.4N–.20 143.5E–.10 35 3.6b 9 4-89
IDC III 15 02 47 32.3–.84 36.44N 143.63E 0 3.9,3.7 **¶17196001**
ISCJB III 15 02 47 35.5–.78 36.4N–.10 143.5E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 02 49 48.0–1.5 37.78N–.09 142.5E–.10 18 3.5b 16 2-58
IDC III 15 02 49 40.5–10 38.25N 143.79E 0 3.7,3.5 **¶17196002**
ISCJB III 15 02 49 46.1–1.2 37.80N–.06 142.8E–.10 18 3.5b,3.5
JMA III 15 02 49 49.6–.30 37.94N 142.56E 23 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=364.3km s-min=33.0km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=8.2km az=5.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 15 02 53 01.5–.40 36.97N 142.22E 6–4 3.5
¶602663058

JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
IDC III 15 02 53 23.4–2.1 36.40N 142.43E 0 3.5,3.4
¶602663054

IDC Error ellipse: s-maj=60.9km s-min=29.3km az=64.0.
ISC III 15 02 54 48.2–.84 37.88N–.06 144.54E–.07 35 3.6b 39 3-75
IDC III 15 02 54 42.2–.92 37.60N 144.63E 0 3.8,3.6 **¶17196004**
ISCJB III 15 02 54 47.8–.73 37.97N–.05 144.41E–.05 33 3.5b,3.6
JMA III 15 02 54 49.0–.30 38.01N 144.40E 52 4.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=19.2km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.8km az=149.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 02 56 50.9–.73 36.47N–.09 142.93E–.07 29 4.0b 29 2-146
IDC III 15 02 56 46.7–.71 36.50N 142.97E 0 4.1,4.0b **¶602663051**
ISCJB III 15 02 56 49.1–.59 36.54N–.06 143.15E–.06 29 3.9b,4.0b
JMA III 15 02 56 50.6–.30 36.46N 143.09E 46 3.9,4.0b
NEIC III 15 02 56 51.9–.65 36.52N 142.83E 35 4.0b,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=17.5km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.9km az=28.2.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=11.7km az=162.0.
ISC III 15 03 09 41.1–.68 37.47N–.07 142.88E–.08 24 3.7b 24 2-145
IDC III 15 03 09 37.6–.71 37.49N 142.99E 0 4.0,3.8 **¶17196006**
ISCJB III 15 03 09 39.2–.54 37.41N–.06 142.91E–.07 24 3.7b,3.3s
JMA III 15 03 09 40.3–.50 37.49N 142.72E 12 4.3,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=20.8km s-min=15.2km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.2km az=138.6.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 15 03 21 35.3–.57 37.71N–.04 144.02E–.04 29–3 5.0b,4.7s 463 3-153
NIED III 15 03 21 00 37.70N 144.00E 8 5.0W,4.7s **¶16314750**
IDC III 15 03 21 30.4–.45 37.61N 144.11E 0 4.8,4.7
ISCJB III 15 03 21 32.0–.82 37.78N–.02 143.93E–.02 12–5 4.9b,4.6s
JMA III 15 03 21 33.3–.40 37.71N 143.99E 43 5.1,4.6s
NEIC III 15 03 21 35.3–1.6 37.71N 143.94E 26–11 5.0b,4.6s
BJI III 15 03 21 35.3 37.95N 143.77E 19 5.2b,4.9s
GCMT III 15 03 21 35.3–.20 37.70N 144.08E 14–0 5.0W,4.9s
MOS III 15 03 21 36.1–.91 38.01N 143.91E 33 5.2b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ42.00000°,λ-55.00000°. NP2:ϕ_s173.00000°,δ57.00000°,λ-118.00000°. M_o3.69000×10^{16}
IDC Error ellipse: s-maj=13.2km s-min=10.9km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=172.9.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.2km az=143.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c62; s85,c149; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.52±.21 $M_{\theta\theta}$-1.33±.13; $M_{\phi\phi}$4.85±.14; $M_{r\theta}$-0.52±.34; $M_{\theta\phi}$1.84±.08; $M_{\phi r}$1.07±.25; Best double couple: NP1:ϕ_s177.00000°,δ54.00000°,λ-116.00000°. NP2:ϕ_s36.00000°,δ43.00000°,λ-59.00000°. Principal axes: T 5.4460,Plg6.0000°,Azm285.0000°; N -1.5400,Plg21.0000°,Azm193.0000°; P -3.9060,Plg69.0000°,Azm30.0000° M_o4.67600×10^{16}
MOS Error ellipse: s-maj=6.9km s-min=4.2km az=102.2.
ISC III 15 03 35 08.4–1.3 37.99N–.06 142.40E–.09 14 15 1-58
IDC III 15 03 35 06.4–1.5 37.77N 142.80E 0 3.8,3.5 **¶17196009**
JMA III 15 03 35 10.6–.40 38.07N 142.23E 10 4.1,3.5
ISCJB III 15 03 35 11.8–1.8 38.03N–.07 142.2E–.10 14 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 03 55 36.7–2.6 37.4N–.10 142.2E–.20 25 6 1-44
IDC III 15 03 55 24.0–11 36.78N 143.25E 0 3.6,3.6L **¶600546820**
JMA III 15 03 55 34.5–.80 37.33N 142.39E 33 3.7,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=199.2km s-min=77.4km az=136.0.
JMA Error ellipse: s-maj=4.4km s-min=6.2km az=-1.0.
ISC III 15 04 08 45.5–.46 36.90N–.05 142.07E–.06 19 4.5b,4.1s 90 1-146
NIED III 15 04 08 00 36.90N 141.90E 26 4.6W,4.1s **¶600546837**
ISCJB III 15 04 08 43.6–.30 36.89N–.03 142.10E–.04 19 4.4b,4.0s
NEIC III 15 04 08 46.0–1.6 36.91N 142.07E 23–11 4.7b,4.0s
JMA III 15 04 08 46.2–.20 36.92N 141.87E 21–2 4.6,4.0s
IDC III 15 04 08 48.2–1.9 36.84N 141.99E 42–18 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s104.00000°,δ10.00000°,λ-30.00000°. NP2:ϕ_s223.00000°,δ85.00000°,λ-99.00000°. M_o8.22000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.8km az=40.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.2km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.0km s-min=10.9km az=92.0.
ISC III 15 04 15 00.3–1.3 38.0N–.10 142.2E–.10 14 3.6b 9 1-62
JMA III 15 04 14 58.8–.30 37.61N 142.23E 12 3.9 **¶17196015**
IDC III 15 04 14 59.2–1.3 38.26N 142.46E 0 3.9,3.6
ISCJB III 15 04 15 00.7–1.2 37.9N–.10 142.2E–.10 14 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 04 16 40.1–.62 36.99N–.07 144.43E–.07 26 4.4b 52 3-119
IDC III 15 04 16 35.9–.63 36.94N 144.55E 0 4.4,4.3 **¶16427604**
NEIC III 15 04 16 37.5–.45 36.98N 144.57E 10 4.5b,4.3
ISCJB III 15 04 16 38.8–.48 37.04N–.06 144.37E–.05 26 4.3b,4.3
JMA III 15 04 16 41.7–.50 37.01N 144.16E 33 4.9,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=13.7km az=138.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.0km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.4km az=164.5.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC III 15 04 19 57.5–1.1 37.8N–.10 144.0E–.20 35 3.7b 9 5-62
IDC III 15 04 19 52.1–1.1 37.80N 144.10E 0 3.8,3.7 **¶17196017**
ISCJB III 15 04 19 55.0–.98 37.7N–.10 144.1E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 04 21 12.0–.84 38.6N–.10 144.0E–.10 14 3.7b 16 5-118
IDC III 15 04 21 09.6–.72 38.59N 143.98E 0 3.9,3.7 **¶17196018**
ISCJB III 15 04 21 10.1–.67 38.6N–.10 143.9E–.10 14 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 04 26 30.7–1.2 36.5N–.10 143.7E–.10 35 3.8b 8 4-89
IDC III 15 04 26 25.4–1.1 36.54N 143.89E 0 4.1,3.9 **¶16478093**
ISCJB III 15 04 26 28.7–1.0 36.5N–.10 143.7E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 04 26 34.5–.86 39.6N–.10 143.09E–.06 18 4.0b 25 1-78
JMA III 15 04 26 30.7–.30 39.38N 143.23E 1 4.3 **¶17196019**
IDC III 15 04 26 32.7–.84 39.78N 142.92E 0 4.1,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=22.2km s-min=16.5km az=102.0.
ISC III 15 04 34 14.7–.81 37.9N–.10 144.41E–.10 10 3.8b 17 5-88
ISCJB III 15 04 34 12.9–.62 37.94N–.10 144.36E–.10 10 3.7b **¶17196022**
IDC III 15 04 34 13.2–.74 37.96N 144.42E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=10.5km az=163.3.
IDC Error ellipse: s-maj=21.1km s-min=15.9km az=149.0.
ISC III 15 04 36 25.6–.88 37.7N–.10 144.3E–.10 35 3.6b 12 5-73
IDC III 15 04 36 20.5–.92 37.64N 144.46E 0 4.0,4.0L **¶17196023**
ISCJB III 15 04 36 23.1–.77 37.73N–.10 144.2E–.10 33 3.6b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 04 36 50.0–1.1 37.6N–.10 142.8E–.10 21 3.8b 13 2-69
IDC III 15 04 36 46.8–1.1 37.58N 142.84E 0 4.0,3.9b **¶17196026**
ISCJB III 15 04 36 47.9–.87 37.5N–.10 142.89E–.08 21 3.8b,3.7s
JMA III 15 04 36 49.3–.30 37.66N 142.57E 0 4.5,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=21.8km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=9.2km az=167.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 04 42 39.3–1.2 37.7N–.10 143.4E–.10 35 3.6b 12 4-76
IDC III 15 04 42 34.4–.84 37.53N 143.40E 0 3.9,3.7 **¶17196027**
ISCJB III 15 04 42 37.0–.88 37.6N–.10 143.4E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 04 44 45.4–1.2 38.33N 144.90E 0 3.8,3.6
¶17196028

IDC Error ellipse: s-maj=31.8km s-min=23.3km az=88.0.
ISC III 15 04 46 29.4–.69 38.11N–.06 143.93E–.08 35 3.9b 41 2-144
IDC III 15 04 46 24.6–.70 38.10N 144.00E 0 4.1,3.9 **¶16427605**
JMA III 15 04 46 27.9–.50 38.31N 143.77E 17 4.7,3.9
ISCJB III 15 04 46 27.8–.53 38.10N–.05 143.89E–.06 33 4.0b,3.9

NEIC III 15 04 46 30.0–.56 38.13N 143.95E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=15.5km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=153.8.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=10.1km az=143.0.
ISC III 15 04 52 57.0–1.5 38.2N–.20 144.0E–.20 35 3.7b 9 5-58
IDC III 15 04 52 51.0–1.8 38.19N 144.30E 0 3.8,3.7 ¶17196029
ISCJB III 15 04 52 54.8–1.3 38.1N–.10 144.0E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 04 53 36.3–1.1 37.6N–.20 144.8E–.20 35 3.7b 7 5-62
IDC III 15 04 53 31.1–.95 37.59N 144.92E 0 3.9,3.7 ¶17196032
ISCJB III 15 04 53 33.9–.93 37.6N–.20 144.9E–.20 33 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 05 10 02.1–2.8 37.7N–.50 142.4E–.10 21 3.6b 7 2-69
IDC III 15 05 09 55.8–1.2 37.14N 142.53E 0 3.8,3.6 ¶600546902
JMA III 15 05 09 56.4–.60 37.28N 142.37E 7 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.3km s-min=25.2km az=147.0.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 15 05 13 13.8–.64 38.4N–.10 144.1E–.10 14 4.1b 25 5-144
ISCJB III 15 05 13 11.3–.61 38.2N–.10 144.1E–.10 14 3.9b ¶17196038
IDC III 15 05 13 15.7–.57 38.25N 144.06E 33–4 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=10.5km az=144.0.
IDC Error ellipse: s-maj=17.2km s-min=13.7km az=117.0.
IDC III 15 05 13 34.0–1.5 37.52N 144.00E 0 4.0,3.8
¶17196041
IDC Error ellipse: s-maj=34.9km s-min=31.2km az=84.0.
ISC III 15 05 15 42.6–.97 37.1N–.20 142.0E–.10 19 3.6b 12 1-146
IDC III 15 05 15 39.5–.80 37.17N 142.28E 0 4.3,4.3s ¶17196042
ISCJB III 15 05 15 40.6–.69 37.1N–.10 142.16E–.10 19 4.3s,3.6b
JMA III 15 05 15 51.9–.10 37.11N 141.23E 39–1 2.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=21.0km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=9.9km az=159.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 15 05 17 55.0–1.1 38.6N–.20 143.4E–.20 15 3.7b 7 5-73
IDC III 15 05 17 52.7–1.1 38.59N 143.43E 0 3.8,3.6b ¶17196043
ISCJB III 15 05 17 53.0–1.1 38.6N–.20 143.5E–.20 15 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 05 25 40.1–1.2 37.13N 144.61E 0 3.8,3.6
¶17196044
IDC Error ellipse: s-maj=33.3km s-min=24.8km az=82.0.
ISC III 15 05 31 24.9–.73 36.05N–.04 142.32E–.04 27–4 5.0b,4.3s 691 1-154
NIED III 15 05 31 00 36.00N 142.40E 5 4.8W,4.3s ¶16314752
IDC III 15 05 31 20.4–.45 35.97N 142.42E 0 4.8,4.7
JMA III 15 05 31 22.5–.30 36.04N 142.42E 28 4.9,4.7
ISCJB III 15 05 31 22.4–.97 36.00N–.03 142.34E–.02 21–6 4.9b,4.4s
BJI III 15 05 31 22.2 36.20N 142.39E 26 5.0b,4.9b
MOS III 15 05 31 23.9–.95 36.02N 142.30E 30 5.1b,4.4s
NEIC III 15 05 31 26.2–.16 35.97N 142.27E 35 5.0b,4.4s
GCMT III 15 05 31 26.2–.50 35.95N 142.50E 12 4.8W,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ21.00000°,λ65.00000°. NP2:ϕ_s240.00000°,δ71.00000°,λ99.00000°. $M_0$1.79000×10^{16}
IDC Error ellipse: s-maj=12.5km s-min=11.3km az=120.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=166.0.
MOS Error ellipse: s-maj=6.6km s-min=4.7km az=110.8.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.2km az=161.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s9,c9; s64,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.64±.08 $M_{\theta\theta}$-0.59±.09; $M_{\phi\phi}$-1.04±.07; $M_{r\theta}$0.79±.40; $M_{\theta\phi}$-1.03±.06; $M_{\phi r}$0.06±.37; Best double couple: NP1:ϕ_s57.00000°,δ56.00000°,λ112.00000°. NP2:ϕ_s201.00000°,δ39.00000°,λ61.00000°. Principal axes: T 1.9150,Plg70.0000°,Azm16.0000°; N 0.0480,Plg18.0000°,Azm224.0000°; P -1.9540,Plg9.0000°,Azm131.0000° $M_0$1.93400×10^{16}
ISC III 15 05 40 25.0–.65 37.71N–.05 142.13E–.08 37–2 4.4b 89 1-146
NIED III 15 05 40 00 37.70N 142.00E 32 4.2W ¶16314755
JMA III 15 05 40 23.7–.20 37.75N 142.02E 29–4 4.5
ISCJB III 15 05 40 24.4–.75 37.75N–.04 142.06E–.05 43–6 4.4b
IDC III 15 05 40 26.7–2.1 37.75N 142.02E 52–19 4.3,4.2
NEIC III 15 05 40 27.1–.75 37.80N 142.04E 51–6 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ47.00000°,λ-65.00000°. NP2:ϕ_s215.00000°,δ48.00000°,λ-115.00000°. $M_0$2.34000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.7km az=33.4.
IDC Error ellipse: s-maj=13.9km s-min=12.0km az=107.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.4km az=138.0.
ISC III 15 05 43 44.2–.74 36.5N–.10 143.5E–.10 35 3.7b 16 4-146
ISCJB III 15 05 43 42.5–.65 36.3N–.10 143.5E–.10 33 3.7b ¶17196046
IDC III 15 05 43 44.2–.83 36.51N 143.57E 29–4 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=9.6km az=40.6.
IDC Error ellipse: s-maj=20.9km s-min=18.0km az=160.0.
ISC III 15 05 58 07.1–.91 38.5N–.10 144.8E–.10 43 3.8b 13 6-75
IDC III 15 05 58 01.0–.82 38.48N 144.90E 0 4.0,3.8 ¶17196050
ISCJB III 15 05 58 05.1–.73 38.5N–.10 144.8E–.10 43 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 06 06 25.7–.51 36.35N–.06 143.33E–.07 35 4.1b 45 3-146
IDC III 15 06 06 21.1–.55 36.49N 143.40E 0 4.3,4.2 ¶600547020
ISCJB III 15 06 06 23.9–.40 36.38N–.05 143.27E–.06 33 4.1b,3.2s
JMA III 15 06 06 25.1–.50 36.56N 143.11E 40 4.4,3.2s
NEIC III 15 06 06 26.2–.30 36.47N 143.34E 35 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.9km az=138.6.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=6.0km az=138.0.
ISC III 15 06 15 24.5–.65 36.32N–.07 142.70E–.07 29 3.9b 38 2-146
NIED III 15 06 15 00 37.10N 142.70E 32 4.1W ¶602662893
JMA III 15 06 15 20.6–.60 37.10N 142.68E 50 3.6
IDC III 15 06 15 20.2–.71 36.28N 142.86E 0 4.0,3.9
ISCJB III 15 06 15 22.5–.52 36.29N–.06 142.68E–.06 29 3.8b,3.9
NEIC III 15 06 15 25.4–.59 36.34N 142.70E 35 4.2b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ44.00000°,λ-8.00000°. NP2:ϕ_s121.00000°,δ85.00000°,λ-133.00000°. $M_0$1.43000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=15.3km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.7km az=149.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=9.2km az=163.0.
ISC III 15 06 24 31.0–.97 38.5N–.20 143.1E–.10 23 3.5b 11 4-76
ISCJB III 15 06 24 29.0–.77 38.4N–.10 143.2E–.20 23 3.5b ¶17196052
IDC III 15 06 24 43.8–3.5 38.58N 143.07E 139–33 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=18.5km az=12.1.
IDC Error ellipse: s-maj=26.0km s-min=18.5km az=98.0.
ISC III 15 06 27 52.4–1.2 38.2N–.10 143.1E–.20 18 3.6b 9 4-58
IDC III 15 06 27 49.5–1.4 38.24N 143.16E 0 3.8,3.8L ¶17196053
ISCJB III 15 06 27 50.3–1.1 38.2N–.10 143.2E–.20 18 3.5b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 06 29 29.9–.79 37.71N–.08 142.43E–.08 21 3.8b 22 2-77
ISCJB III 15 06 29 28.1–.62 37.68N–.07 142.51E–.06 21 3.7b ¶17196054
JMA III 15 06 29 31.3–.30 37.83N 142.37E 24 4.0
IDC III 15 06 29 33.4–3.4 37.70N 142.34E 50–32 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.1km az=8.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=16.2km az=91.0.
ISC III 15 06 31 30.0–.52 37.33N–.06 142.14E–.07 24 4.2b 56 1-154
NIED III 15 06 31 00 37.30N 142.10E 17 4.1W ¶16478131
IDC III 15 06 31 26.3–.55 37.32N 142.22E 0 4.3,4.2
JMA III 15 06 31 28.7–.40 37.25N 142.12E 43 4.4,4.2
ISCJB III 15 06 31 28.0–.38 37.29N–.04 142.17E–.05 24 4.2s,4.2b
NEIC III 15 06 31 31.5–.32 37.33N 142.14E 35 4.8b,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ13.00000°,λ-33.00000°. NP2:ϕ_s181.00000°,δ83.00000°,λ-101.00000°. $M_0$1.59000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.2km az=127.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.1km az=16.3.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.7km az=121.0.
ISC III 15 06 38 15.8–2.0 37.6N–.20 144.0E–.20 35 3.7b 6 5-62
ISCJB III 15 06 38 13.2–1.7 37.7N–.20 144.0E–.30 33 3.9s,3.6b ¶603049801
IDC III 15 06 38 18.4–11 37.62N 143.76E 54–76 3.8,3.8s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.6km s-min=18.3km az=150.1.
IDC Error ellipse: s-maj=135.4km s-min=25.0km az=71.0.
ISC III 15 06 39 09.9–1.9 37.6N–.20 143.3E–.20 35 3.7b 9 4-58
IDC III 15 06 39 04.2–2.4 37.59N 143.43E 0 3.9b,3.8 ¶17196058
ISCJB III 15 06 39 07.6–1.6 37.6N–.10 143.3E–.30 33 3.8b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 06 40 24.4–1.2 37.55N–.04 143.80E–.05 16–7 4.9b,3.9s 338 2-153
NIED III 15 06 40 00 37.50N 143.70E 5 4.7W,3.9s ¶16314758
IDC III 15 06 40 21.8–.40 37.49N 143.85E 0 4.7,4.7
ISCJB III 15 06 40 24.0–1.1 37.55N–.03 143.70E–.03 19–7 4.8b,3.8s
JMA III 15 06 40 25.7–.50 37.51N 143.68E 48 4.8,3.8s
NEIC III 15 06 40 27.7–.19 37.53N 143.74E 35 4.9b,3.8s
MOS III 15 06 40 27.3–.93 37.84N 143.65E 33 5.1b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ46.00000°,λ-24.00000°. NP2:ϕ_s335.00000°,δ73.00000°,λ-133.00000°. $M_0$1.06000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=10.5km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=164.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=150.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=113.9.
ISC III 15 06 47 25.6–.83 37.6N–.10 144.33E–.09 35 3.6b 14 5-88
IDC III 15 06 47 20.7–.79 37.66N 144.46E 0 3.9,3.9L ¶17196059
ISCJB III 15 06 47 23.6–.66 37.67N–.10 144.27E–.09 33 3.7b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 07 03 29.9–1.0 37.1N–.20 143.3E–.20 35 3.7b 8 45-89
IDC III 15 07 03 24.6–1.0 37.05N 143.35E 0 4.0,3.7 ¶16478142
ISCJB III 15 07 03 27.6–.97 37.0N–.20 143.3E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 07 04 36.4–1.0 37.1N–.10 144.1E–.10 35 4.4b 10 12-88
IDC III 15 07 04 30.9–.95 37.03N 144.18E 0 4.4,4.3 ¶17196067
ISCJB III 15 07 04 34.0–.83 37.0N–.10 144.1E–.20 33 4.3b,4.3
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 07 11 51.6–2.5 37.03N 143.69E 0 4.0,3.9b
¶17196069
IDC Error ellipse: s-maj=72.3km s-min=23.1km az=61.0.
ISC III 15 07 16 14.7–1.3 38.1N–.20 143.8E–.20 35 3.6b 7 5-76
IDC III 15 07 16 09.3–1.1 38.11N 143.84E 0 3.9,3.7b ¶17196070
ISCJB III 15 07 16 12.5–1.1 38.1N–.20 143.9E–.20 33 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 07 18 09.9–.41 36.00N–.05 142.33E–.05 18 4.6b 147 1-147
NIED III 15 07 18 00 36.00N 142.30E 5 4.3W ¶600547126
IDC III 15 07 18 06.7–.48 35.96N 142.42E 0 4.5,4.4
ISCJB III 15 07 18 08.9–.21 36.05N–.04 142.30E–.03 18 4.5b,4.4
JMA III 15 07 18 09.5–.20 36.04N 142.34E 75 3.8,4.4
NEIC III 15 07 18 13.0–.63 36.04N 142.29E 36–5 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ17.00000°,λ70.00000°. NP2:ϕ_s258.00000°,δ74.00000°,λ96.00000°. $M_0$3.30000×10^{15}
IDC Error ellipse: s-maj=13.0km s-min=12.1km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.1km az=169.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=136.0.
ISC III 15 07 23 02.5–.59 37.31N–.08 144.28E–.08 35 4.3b 54 5-159
IDC III 15 07 22 57.4–.79 37.35N 144.38E 0 4.0,3.9 ¶16424505
NEIC III 15 07 23 00.7–3.0 37.37N 144.36E 20–18 4.9b,3.9
ISCJB III 15 07 23 00.6–.37 37.35N–.05 144.25E–.06 33 4.5b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 15 07 24 18.8–.92 37.6N–.20 144.3E–.10 35 3.8b 9 5-76
IDC III 15 07 24 13.6–.79 37.52N 144.34E 0 4.1,3.8 ¶17196072
ISCJB III 15 07 24 16.6–.74 37.5N–.20 144.3E–.20 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 07 25 16.9–.52 37.14N–.07 142.40E–.06 9 4.5b 67 1-151
ISCJB III 15 07 25 14.9–.31 37.06N–.05 142.46E–.04 9 4.4b ¶602662774
IDC III 15 07 25 15.2–.58 37.09N 142.32E 0 4.3,4.2
JMA III 15 07 25 17.2–.20 37.14N 142.45E 26 4.5,4.2
NEIC III 15 07 25 21.1–.70 37.12N 142.33E 39–6 4.8b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=170.0.
IDC Error ellipse: s-maj=17.5km s-min=13.9km az=92.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.7km az=113.0.
ISC III 15 07 28 29.0–1.2 37.7N–.20 143.5E–.30 35 3.9b 7 14-75
IDC III 15 07 28 23.6–1.1 37.64N 143.63E 0 3.9,3.8 ¶17196073
ISCJB III 15 07 28 26.6–.99 37.7N–.10 143.5E–.30 33 3.9b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 07 35 43.6–.36 37.44N–.05 142.41E–.05 32–2 4.8b,3.8s 574 1-156
ISCJB III 15 07 35 41.0–1.3 37.44N–.03 142.38E–.03 22–9 4.8b,3.8s ¶600547157
JMA III 15 07 35 42.0–.20 37.44N 142.30E 16 4.8,3.8s
NEIC III 15 07 35 44.7–.29 37.49N 142.30E 35–2 4.8b,3.8s
IDC III 15 07 35 44.1–.51 37.47N 142.36E 34–4 4.7,4.6
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.2km az=163.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.1km az=141.0.
IDC Error ellipse: s-maj=11.2km s-min=10.5km az=106.0.
ISC III 15 08 01 44.1–.39 40.42N–.03 143.41E–.03 19–1 5.3s,5.2b 725 1-154
NIED III 15 08 01 00 40.40N 143.50E 14 5.3W,5.2b ¶16322647
IDC III 15 08 01 41.1–.44 40.36N 143.45E 0 5.0,5.0s
JMA III 15 08 01 42.3–.20 40.39N 143.46E 13 5.5,5.0s
MOS III 15 08 01 43.1–.93 40.56N 143.26E 14 5.5b,5.4s
ISCJB III 15 08 01 43.5–.77 40.38N–.02 143.29E–.02 20–5 5.2s,5.1b
BJI III 15 08 01 43.4 40.41N 143.27E 24 5.5b,5.4s
GCMT III 15 08 01 43.8–.10 40.35N 143.60E 21–0 5.4W,5.4s
NEIC III 15 08 01 43.8–.13 40.40N 143.24E 12 5.4W,5.3b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ24.00000°,λ91.00000°. NP2:ϕ_s24.00000°,δ66.00000°,λ90.00000°. $M_0$1.12000×10^{17}
IDC Error ellipse: s-maj=12.4km s-min=10.6km az=108.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=152.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c140; s117,c222; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.03 $M_{\theta\theta}$-0.07±.01; $M_{\phi\phi}$-0.71±.02; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$-0.28±.01; $M_{\phi r}$1.02±.04; Best double couple: NP1:ϕ_s27.00000°,δ73.00000°,λ94.00000°. NP2:ϕ_s193.00000°,δ18.00000°,λ76.00000°. Principal axes: T 1.4060,Plg62.0000°,Azm304.0000°; N 0.0170,Plg4.0000°,Azm206.0000°; P -1.4230,Plg28.0000°,Azm114.0000° $M_0$1.41400×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=148.0. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}1.06 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$-0.94 $M_{r\theta}$0.51 $M_{\theta\phi}$-0.30 $M_{\phi r}$1.07 Best double couple: NP1:ϕ_s192.00000°,δ21.00000°,λ80.00000°. NP2:ϕ_s24.00000°,δ69.00000°,λ94.00000°. Principal axes: T 1.6000,Plg65.0000°,Azm300.0000°; N -0.0300,Plg4.0000°,Azm202.0000°; P -1.5700,Plg24.0000°,Azm111.0000° $M_0$1.60000×10^{17}

IDC	**III**	**15 08 07 54.6–2.7**	**36.66N**	**143.73E**	**0**	**3.8,3.6**			
									¶16478154
IDC	Error ellipse: s-maj=76.8km s-min=29.4km az=60.0.								
ISC	**III**	**15 08 08 36.3–.59**	**38.25N–.09**	**144.58E–.09**	**29**	**4.2b**	**53**	**4-136**	
IDC	III	15 08 08 31.8–.76	38.19N	144.60E	0	4.0,3.9			**¶17196077**
ISCJB	III	15 08 08 34.2–.35	38.20N–.05	144.54E–.07	29	4.2b,3.9			
NEIC	III	15 08 08 37.1–.34	38.23N	144.57E	35	4.6b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=19.2km s-min=17.0km az=158.0.								
ISCJB	Event type se. Error ellipse: s-maj=9.1km s-min=5.8km az=137.3.								
NEIC	Event type se. Error ellipse: s-maj=9.8km s-min=5.9km az=136.0.								
ISC	**III**	**15 08 11 47.6–.49**	**37.13N–.06**	**143.78E–.06**	**35**	**4.3b**	**77**	**2-145**	
IDC	III	15 08 11 42.2–.57	37.04N	143.94E	0	4.3,4.2			**¶602662684**
ISCJB	III	15 08 11 45.7–.29	37.06N–.04	143.76E–.04	33	4.3b,4.2			
JMA	III	15 08 11 46.0–.30	37.13N	143.65E	32	4.4,4.2			
NEIC	III	15 08 11 47.7–.67	37.03N	143.89E	35–6	4.7b,4.2			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=16.6km s-min=14.0km az=88.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=169.7.								
JMA	Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=5.6km s-min=4.5km az=117.0.								
ISC	**III**	**15 08 15 47.6–1.8**	**37.3N–.10**	**142.4E–.10**	**25**	**3.8b**	**11**	**1-49**	
IDC	III	15 08 15 35.1–5.1	36.49N	143.50E	0	3.9,3.9L			**¶600547233**
JMA	III	15 08 15 45.3–.50	37.31N	142.33E	6–4	4.3,3.9L			
ISCJB	III	15 08 15 45.9–1.5	37.3N–.10	142.5E–.10	25	3.6b,3.9L			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**III**	**15 08 16 55.4–.58**	**38.57N–.08**	**144.0E–.10**	**14**	**4.2b**	**38**	**4-150**	
IDC	III	15 08 16 52.9–.83	38.53N	143.98E	0	4.1,3.9			**¶16424509**
ISCJB	III	15 08 16 53.6–.40	38.53N–.06	143.99E–.09	14	4.2b,3.9			
NEIC	III	15 08 16 59.5–1.1	38.54N	144.05E	45–10	4.7b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=21.9km s-min=19.7km az=84.0.								
ISCJB	Event type se. Error ellipse: s-maj=9.8km s-min=8.2km az=20.2.								
NEIC	Event type se. Error ellipse: s-maj=10.7km s-min=7.5km az=107.0.								
ISC	**III**	**15 08 17 42.9–1.9**	**37.1N–.20**	**142.2E–.20**	**19**	**3.8b**	**8**	**1-63**	
IDC	III	15 08 17 30.3–1.1	38.23N	144.72E	0	4.0,3.9			**¶603049803**
JMA	III	15 08 17 38.9–.40	37.31N	142.37E	7–4	4.2,3.9			
ISCJB	III	15 08 17 40.1–1.6	37.2N–.20	142.4E–.20	19	4.0b,3.9			
ISC	Event type ke.								
ISCJB	Event type ke.								
JMA	**III**	**15 08 23 19.7–.20**	**36.34N**	**142.03E**	**79–5**	**3.0**			
									¶602662645
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
JMA	**III**	**15 08 25 20.0–.30**	**39.39N**	**143.02E**	**1–5**	**3.6**			
									¶602662635
JMA	Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.								
IDC	**III**	**15 08 26 42.8–1.0**	**37.54N**	**144.39E**	**0**	**3.9,3.9s**			
									¶17196087
IDC	Error ellipse: s-maj=32.6km s-min=23.9km az=118.0.								
ISC	**III**	**15 08 28 30.1–.60**	**37.26N–.07**	**143.42E–.06**	**35**	**4.5b**	**61**	**2-89**	
IDC	III	15 08 28 24.9–.71	37.12N	143.62E	0	4.1,4.0			**¶602662628**
NEIC	III	15 08 28 25.7–3.9	37.16N	143.69E	5–24	4.8b,4.0			
ISCJB	III	15 08 28 27.9–.32	37.23N–.04	143.42E–.04	33	4.4b,4.0			
JMA	III	15 08 28 29.1–.20	37.22N	143.32E	55	4.2,4.0			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=20.7km s-min=16.1km az=109.0.								
NEIC	Event type se. Error ellipse: s-maj=10.6km s-min=6.3km az=115.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=165.3.								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
ISC	**III**	**15 08 30 32.6–.94**	**37.6N–.10**	**144.3E–.10**	**35**	**3.8b**	**11**	**5-75**	
IDC	III	15 08 30 27.7–.92	37.72N	144.42E	0	3.8,3.7			**¶17196088**
ISCJB	III	15 08 30 30.5–.81	37.6N–.10	144.3E–.20	33	3.8b,3.7			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**III**	**15 08 36 19.5–.43**	**36.49N–.05**	**142.70E–.06**	**15**	**4.7b**	**144**	**2-146**	
NIED	III	15 08 36 00	36.50N	142.60E	8	4.7W			**¶16318246**
IDC	III	15 08 36 16.3–.57	36.45N	142.84E	0	4.4,4.3			
JMA	III	15 08 36 17.8–.30	36.54N	142.63E	12	4.7,4.3			
ISCJB	III	15 08 36 18.7–.23	36.57N–.04	142.58E–.03	15	4.6b,3.8s			
NEIC	III	15 08 36 21.6–1.6	36.57N	142.60E	25–11	4.8b,3.8s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ44.00000°,λ105.00000°. NP2:ϕ_s192.00000°,δ48.00000°,λ76.00000°. $M_0$1.24000×10^{16}								
IDC	Error ellipse: s-maj=14.1km s-min=12.7km az=130.0.								
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
ISCJB	Event type se. Error ellipse: s-maj=6.2km s-min=3.4km az=155.4.								
NEIC	Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=145.0.								
IDC	**III**	**15 08 40 14.2–4.9**	**36.43N**	**142.53E**	**0**	**3.9,3.5**			
									¶17196090
IDC	Error ellipse: s-maj=137.4km s-min=40.4km az=179.0.								
ISC	**III**	**15 08 46 36.8–.57**	**36.58N–.08**	**143.83E–.10**	**35**	**4.1b**	**39**	**5-145**	
IDC	III	15 08 46 31.5–.75	36.54N	143.92E	0	4.1,3.9			**¶16424512**
ISCJB	III	15 08 46 34.7–.36	36.57N–.05	143.79E–.08	33	4.2b,3.9			
NEIC	III	15 08 46 35.5–2.4	36.59N	143.87E	26–17	4.4b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=24.5km s-min=19.9km az=122.0.								
ISCJB	Event type se. Error ellipse: s-maj=9.7km s-min=7.0km az=27.4.								
NEIC	Event type se. Error ellipse: s-maj=10.4km s-min=6.1km az=110.0.								
ISC	**III**	**15 08 48 22.7–.63**	**37.61N–.04**	**143.59E–.04**	**26–4**	**5.2b,5.0s**	**986**	**2-160**	
ISCJB	III	15 08 48 18.1–1.0	37.54N–.03	143.59E–.02	6–6	5.2b,4.9s			**¶17196093**
IDC	III	15 08 48 18.5–.37	37.51N	143.65E	0	4.9,4.9			
JMA	III	15 08 48 22.1–.40	37.47N	143.39E	34	5.2,4.9			
MOS	III	15 08 48 23.1–.89	37.72N	143.49E	33	5.5b,4.8s			
GCMT	III	15 08 48 24.1–.20	37.61N	143.54E	12	5.1W,4.8s			
NEIC	III	15 08 48 24.1–.32	37.52N	143.55E	34–2	5.3b,4.8s			
BJI	III	15 08 48 25.2	37.89N	142.94E	25	5.4b,5.1s			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.7km s-min=2.6km az=161.6.								
IDC	Error ellipse: s-maj=10.9km s-min=9.2km az=103.0.								
JMA	Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.								
MOS	Error ellipse: s-maj=5.9km s-min=4.2km az=104.2.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c55; s109,c188; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.77±.08 $M_{\theta\theta}$0.58±.08; $M_{\phi\phi}$4.19±.07; $M_{r\theta}$0.36±.28; $M_{\theta\phi}$1.40±.07; $M_{\phi r}$0.58±.27; Best double couple: NP1:ϕ_s201.00000°,δ49.00000°,λ-88.00000°. NP2:ϕ_s17.00000°,δ41.00000°,λ-93.00000°. Principal axes: T 4.7170,Plg4.0000°,Azm289.0000°; N 0.1080,Plg2.0000°,Azm19.0000°; P -4.8220,Plg86.0000°,Azm133.0000° $M_0$4.77000×10^{16}								
NEIC	Event type se. Error ellipse: s-maj=3.4km s-min=2.0km az=146.0.								
ISC	**III**	**15 08 48 35.4–.41**	**37.51N–.08**	**143.45E–.07**	**35**	**5.1b**	**142**	**4-154**	
IDC	III	15 08 48 29.8–.43	37.52N	143.59E	0	5.2,5.1			**¶603049805**
ISCJB	III	15 08 48 33.2–.41	37.46N–.06	143.49E–.08	33	5.2s,5.1b			
ISC	Event type ke.								
ISCJB	Event type ke.								

ISC	**III**	**15 09 01 22.9–.77**	**37.76N–.06**	**143.13E–.08**	**18**	**3.7b**	**24**	**2-89**	
IDC	III	15 09 01 20.4–.81	37.74N	143.05E	0	3.9,3.8			**¶17196096**
ISCJB	III	15 09 01 21.2–.63	37.78N–.06	143.15E–.06	18	3.7b,3.8			
JMA	III	15 09 01 22.5–.30	37.90N	142.97E	9	4.4,3.8			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=23.3km s-min=17.1km az=104.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=6.4km az=150.7.								
JMA	Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.								
IDC	**III**	**15 09 09 53.3–24**	**37.99N**	**142.98E**	**0**	**3.5b,3.4**			
									¶17196098
IDC	Error ellipse: s-maj=429.7km s-min=60.5km az=124.0.								
JMA	**III**	**15 09 10 03.8–.30**	**40.27N**	**143.15E**	**2–3**	**3.6**			
									¶602663287
JMA	Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
IDC	**III**	**15 09 10 52.7–1.3**	**38.56N**	**144.89E**	**0**	**3.9,3.8**			
									¶17196101
IDC	Error ellipse: s-maj=35.2km s-min=19.7km az=77.0.								
ISC	**III**	**15 09 13 01.6–.95**	**39.90N–.07**	**144.33E–.08**	**34**	**3.9b**	**27**	**2-73**	
IDC	III	15 09 12 56.1–.99	39.81N	144.51E	0	4.0,3.9			**¶17196102**
ISCJB	III	15 09 12 59.9–.67	39.91N–.05	144.32E–.06	34	3.9b,3.9			
JMA	III	15 09 13 00.5–.40	40.02N	144.13E	15	3.9,3.9			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=25.1km s-min=18.6km az=86.0.								
ISCJB	Event type ke. Error ellipse: s-maj=7.1km s-min=6.8km az=31.1.								
JMA	Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.								
ISC	**III**	**15 09 20 00.2–.74**	**37.77N–.06**	**142.80E–.08**	**18**	**3.7b**	**23**	**2-89**	
IDC	III	15 09 19 57.3–.77	37.69N	142.89E	0	3.8,3.7			**¶17196103**
ISCJB	III	15 09 19 58.5–.61	37.80N–.06	142.82E–.07	18	3.6b,3.7			
JMA	III	15 09 19 59.9–.30	37.87N	142.51E	10	4.3,3.7			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=20.6km s-min=17.0km az=109.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=7.9km az=140.7.								
JMA	Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.								
ISC	**III**	**15 09 28 34.3–1.2**	**37.12N–.09**	**142.1E–.10**	**19**	**3.4b**	**9**	**1-57**	
IDC	III	15 09 28 31.5–1.4	37.23N	142.25E	0	3.6L,3.5			**¶600547404**
ISCJB	III	15 09 28 32.5–1.0	37.2N–.10	142.2E–.10	19	3.3b,3.5			
JMA	III	15 09 28 37.3–.20	37.16N	141.82E	5–3	3.6,3.5			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=31.0km s-min=24.4km az=91.0.								
ISCJB	Event type ke. Error ellipse: s-maj=15.7km s-min=12.8km az=26.1.								
JMA	Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.								
ISC	**III**	**15 09 30 57.5–1.8**	**37.55N–.06**	**143.63E–.10**	**42–14**	**4.1b**	**39**	**2-83**	
IDC	III	15 09 30 51.4–.69	37.51N	143.75E	0	4.2,4.1			**¶16478188**
NEIC	III	15 09 30 52.9–.43	37.57N	143.81E	10	4.5b,4.1			
ISCJB	III	15 09 30 54.9–1.2	37.53N–.04	143.66E–.07	36–10	4.2b,4.1			
JMA	III	15 09 30 56.4–.30	37.49N	143.55E	57	4.3,4.1			
ISC	Event type se.								
IDC	Error ellipse: s-maj=18.0km s-min=14.3km az=96.0.								
NEIC	Event type se. Error ellipse: s-maj=9.7km s-min=8.3km az=145.0.								
ISCJB	Event type se. Error ellipse: s-maj=9.5km s-min=7.2km az=168.0.								
JMA	Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.								
ISC	**III**	**15 09 34 45.3–.98**	**39.79N–.07**	**143.41E–.09**	**6**	**3.9b**	**25**	**2-72**	
ISCJB	III	15 09 34 42.7–.58	39.72N–.05	143.55E–.07	6	3.9b			**¶602663200**
IDC	III	15 09 34 44.1–.93	39.79N	143.40E	0	4.0,3.9			
JMA	III	15 09 34 45.2–.20	39.90N	143.33E	0	4.4,3.9			
NEIC	III	15 09 34 47.9–2.8	39.79N	143.47E	27–20	4.5b,3.9			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.0km s-min=5.9km az=33.4.								
IDC	Error ellipse: s-maj=24.0km s-min=16.4km az=94.0.								
JMA	Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=14.0km s-min=7.8km az=115.0.								
ISC	**III**	**15 09 37 08.2–.58**	**37.94N–.06**	**143.64E–.07**	**19**	**4.0b**	**42**	**2-88**	
IDC	III	15 09 37 05.2–.65	37.96N	143.72E	0	4.1,4.0			**¶16461794**
ISCJB	III	15 09 37 06.7–.46	38.01N–.06	143.64E–.05	19	4.0b,4.0			
JMA	III	15 09 37 06.2–.50	38.20N	143.81E	39	4.4,4.0			
NEIC	III	15 09 37 09.3–3.6	37.95N	143.72E	26–25	4.5b,4.0			
ISC	Event type se.								
IDC	Error ellipse: s-maj=16.5km s-min=14.2km az=144.0.								
ISCJB	Event type se. Error ellipse: s-maj=8.5km s-min=5.4km az=173.0.								
JMA	Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=11.4km s-min=9.1km az=138.0.								
IDC	**III**	**15 09 43 47.7–1.4**	**37.85N**	**143.29E**	**0**	**3.7,3.6**			
									¶17196108
IDC	Error ellipse: s-maj=32.9km s-min=25.0km az=113.0.								
ISC	**III**	**15 09 44 33.9–1.1**	**38.95N–.08**	**144.25E–.07**	**23**	**3.6b**	**21**	**2-87**	
IDC	III	15 09 44 29.2–1.0	38.63N	144.28E	0	3.9,3.6			**¶17196111**
ISCJB	III	15 09 44 31.7–.80	38.95N–.05	144.22E–.06	23	3.6b,3.6			
JMA	III	15 09 44 32.1–.40	38.91N	144.26E	48	4.0,3.6			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=30.7km s-min=23.1km az=122.0.								
ISCJB	Event type ke. Error ellipse: s-maj=7.5km s-min=6.4km az=144.9.								
JMA	Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.								
ISC	**III**	**15 09 46 26.8–.53**	**37.81N–.06**	**143.87E–.06**	**35**	**4.5b**	**83**	**3-118**	
IDC	III	15 09 46 20.6–.56	37.66N	143.94E	0	4.4,4.3			**¶16318249**
ISCJB	III	15 09 46 24.8–.32	37.78N–.04	143.81E–.04	33	4.5b,4.3			
NEIC	III	15 09 46 24.6–2.0	37.72N	143.89E	21–14	4.7b,4.3			
JMA	III	15 09 46 25.0–.50	37.94N	143.59E	3	4.6,4.3			
ISC	Event type se.								
IDC	Error ellipse: s-maj=14.9km s-min=12.8km az=127.0.								
ISCJB	Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=0.5.								
NEIC	Event type se. Error ellipse: s-maj=8.5km s-min=5.4km az=138.0.								
JMA	Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.								
ISC	**III**	**15 09 49 54.2–.36**	**37.35N–.03**	**142.38E–.03**	**19–1**	**6.0b,5.6s**	**2142**	**1-161**	
NIED	III	15 09 49 00	37.40N	142.30E	5	5.9W,5.6s			**¶16315885**
IDC	III	15 09 49 50.9–.31	37.32N	142.42E	0	5.5,5.5			
BJI	III	15 09 49 50.3	37.40N	142.45E	15	6.1s,6.0b			
JMA	III	15 09 49 51.5–.20	37.39N	142.33E	7–2	6.3,6.0b			
ISCJB	III	15 09 49 51.3–.60	37.35N–.02	142.34E–.01	9–3	5.9b,5.6s			
GCMT	III	15 09 49 52.6–.10	37.44N	142.29E	12	5.8W,5.6s			
MOS	III	15 09 49 52.2–.89	37.41N	142.34E	24	6.2b,5.6s			
NEIC	III	15 09 49 52.6–.07	37.37N	142.30E	8	6.0,6.0b			
NEIC	III	15 09 49 54.0–.00	37.15N	142.61E	15	6.0,6.0b			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ22.00000°,λ-80.00000°. NP2:ϕ_s201.00000°,δ68.00000°,λ-94.00000°. $M_0$7.32000×10^{17}								
IDC	Error ellipse: s-maj=10.1km s-min=8.6km az=80.0.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
ISCJB	Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=163.3.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c230; s145,c434;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.90±.04 $M_{\theta\theta}$0.98±.04; $M_{\phi\phi}$4.92±.04; $M_{r\theta}$1.95±.12; $M_{\theta\phi}$1.93±.04; $M_{\phi r}$2.84±.12; Best double couple: NP1:ϕ_s208.00000°,δ60.00000°,λ-84.00000°. NP2:ϕ_s17.00000°,δ30.00000°,λ-100.00000°. Principal axes: T 6.6200,Plg15.0000°,Azm294.0000°; N 0.2600,Plg5.0000°,Azm25.0000°; P -6.8760,Plg74.0000°,Azm133.0000° $M_0$6.74800×10^{17}								
MOS	Error ellipse: s-maj=5.2km s-min=3.4km az=106.2.								
NEIC	Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=145.0. Recorded [3 JMA] in Miyagi and Yamagata. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s30.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s210.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm300.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm120.0000°								
NEIC	Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{17}Nm; M_{rr}-4.13 $M_{\theta\theta}$1.08 $M_{\phi\phi}$3.06 $M_{r\theta}$3.24 $M_{\theta\phi}$1.29 $M_{\phi r}$2.58 Best double couple: NP1:ϕ_s223.00000°,δ69.00000°,λ-79.00000°. NP2:ϕ_s16.00000°,δ24.00000°,λ-115.00000°. Principal axes: T 5.2900,Plg22.0000°,Azm305.0000°; N 0.7600,Plg10.0000°,Azm39.0000°; P -6.0500,Plg64.0000°,Azm151.0000° $M_0$5.70000×10^{17}								

ISC	**III**	**15 09 52 00.3–.54**	**37.20N–.08**	**142.45E–.09**	**9**	**5.1b**	**39**	**3-154**	
ISCJB	III	15 09 51 58.4–.40	37.17N–.05	142.44E–.08	9	5.9s,5.0b			**¶16478194**
IDC	III	15 09 51 58.9–.54	37.24N	142.36E	0	5.8,5.8s			
NEIC	III	15 09 52 05.6–1.4	37.25N	142.35E	48–12	4.8b,5.8s			

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=34.1.
IDC Error ellipse: s-maj=14.7km s-min=13.7km az=121.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.5km az=126.0.
JMA III 15 09 53 16.3–.30 36.71N 142.44E 46 4.8 ¶602663180

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 15 09 55 10.2–.40 37.24N 142.40E 0 4.4 ¶602663179

JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 15 09 58 16.0–1.2 37.12N–.09 142.3E–.10 9 4.0b 10 1-61
JMA III 15 09 58 10.7–.80 37.53N 142.34E 0 4.0 **¶17196112**
ISCJB III 15 09 58 13.4–.88 37.14N–.06 142.39E–.10 9 3.9b
IDC III 15 09 58 14.2–1.3 37.17N 142.40E 0 4.0b,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=9.1km az=16.1.
IDC Error ellipse: s-maj=33.9km s-min=18.7km az=80.0.
IDC III 15 09 59 58.1–2.9 37.22N 142.33E 0 3.8b,3.7 ¶17196114

IDC Error ellipse: s-maj=61.5km s-min=31.7km az=64.0.
ISC III 15 10 00 23.8–.96 39.64N–.09 143.23E–.07 18 4.0b 22 2-72
IDC III 15 10 00 20.8–.93 39.56N 143.23E 0 4.1,4.0b **¶17196115**
ISCJB III 15 10 00 21.3–.70 39.54N–.08 143.39E–.07 18 3.9b,4.0b
JMA III 15 10 00 22.4–.30 39.72N 143.25E 3 4.4,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=24.0km s-min=16.9km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=8.0km az=179.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 10 02 31.4–1.2 38.0N–.10 143.9E–.10 35 4.0b 12 3-72
IDC III 15 10 02 25.5–2.2 37.92N 144.06E 0 3.9b,3.9 **¶16478199**
NEIC III 15 10 02 31.4–.85 37.95N 143.84E 35 4.2b,3.9
JMA III 15 10 02 34.6–.30 37.38N 142.46E 23 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=58.0km s-min=23.6km az=60.0.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=13.8km az=222.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 15 10 16 09.1–1.3 38.8N–.10 143.2E–.10 20 3.6b 7 5-59
IDC III 15 10 16 06.2–1.3 38.82N 143.20E 0 3.8,3.6 **¶16478205**
ISCJB III 15 10 16 07.3–1.2 38.9N–.10 143.2E–.20 20 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 10 16 51.2–.77 38.85N–.10 144.45E–.10 19 4.0b 31 5-82
IDC III 15 10 16 48.5–.72 38.90N 144.45E 0 4.2,4.0 **¶17196118**
ISCJB III 15 10 16 49.3–.56 38.81N–.07 144.41E–.08 19 4.0b,4.0
NEIC III 15 10 16 51.7–3.3 38.90N 144.45E 21–22 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=15.0km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=7.2km az=138.3.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.5km az=112.0.
ISC III 15 10 18 46.5–.59 38.92N–.08 144.36E–.08 19 4.1b 40 5-118
IDC III 15 10 18 43.3–.62 38.87N 144.39E 0 4.2,4.1 **¶16461795**
ISCJB III 15 10 18 44.8–.47 38.91N–.06 144.34E–.07 19 4.1b,4.1
NEIC III 15 10 18 47.5–2.8 38.95N 144.37E 25–20 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=13.6km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=7.4km az=147.7.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.2km az=109.0.
JMA III 15 10 22 04.6–.30 37.37N 142.45E 11 3.7 ¶602662583

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 15 10 30 17.2–.77 36.47N–.08 142.15E–.07 19 3.8b 18 1-146
IDC III 15 10 30 15.0–.99 36.65N 142.15E 0 4.1,3.8 **¶602662574**
JMA III 15 10 30 16.7–.30 36.90N 142.27E 8–3 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=22.0km az=170.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 10 43 19.3–.58 38.94N–.06 144.40E–.07 19 4.2b 61 2-118
IDC III 15 10 43 16.5–.60 38.85N 144.42E 0 4.4,4.3 **¶602662550**
ISCJB III 15 10 43 18.1–.44 38.97N–.04 144.32E–.05 19 4.3b,4.3
JMA III 15 10 43 19.6–.40 39.13N 144.37E 43 4.6,4.3
NEIC III 15 10 43 21.5–.51 38.84N 144.37E 35 4.5b,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=12.7km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=165.6.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.5km az=127.0.
ISC III 15 10 48 23.5–.69 38.14N–.06 144.23E–.07 35 3.9b 42 3-88
IDC III 15 10 48 17.8–.70 37.96N 144.34E 0 4.0,4.0L **¶600547518**
JMA III 15 10 48 21.5–.40 38.16N 144.20E 47 4.4,4.0L
ISCJB III 15 10 48 22.4–.53 38.24N–.05 144.15E–.05 33 3.9b,4.0L
NEIC III 15 10 48 23.5–1.5 37.96N 144.32E 39–14 4.2b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=16.2km az=137.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=172.8.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=12.4km az=157.0.
ISC III 15 11 06 15.8–.67 37.17N–.03 142.44E–.04 25–4 5.2b,4.7s 1000 2-160
NIED III 15 11 06 00 37.20N 142.60E 8 5.0W,4.7s **¶16315889**
IDC III 15 11 06 11.9–.37 37.16N 142.45E 0 5.0,5.0
BJI III 15 11 06 12.6 37.15N 142.35E 18 5.4b,5.0b
ISCJB III 15 11 06 13.0–.97 37.15N–.02 142.42E–.02 15–6 5.2b,4.7s
JMA III 15 11 06 13.5–.40 37.20N 142.40E 15–5 5.2,4.7s
GCMT III 15 11 06 15.9–.40 37.25N 142.43E 20–1 5.1W,4.7s
NEIC III 15 11 06 15.9–1.1 37.15N 142.38E 22–7 5.2b,4.7s
MOS III 15 11 06 16.0–.98 37.22N 142.35E 33 5.4b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ43.00000°,λ-41.00000°. NP2:ϕ_s354.00000°,δ63.00000°,λ-125.00000°. $M_0$3.31000$\times 10^{16}$
IDC Error ellipse: s-maj=12.6km s-min=8.8km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=157.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c21; s81,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.54±.44 $M_{\theta\theta}$0.21±.24; $M_{\phi\phi}$4.33±.25; $M_{r\theta}$0.51±.49; $M_{\theta\phi}$1.80±.11; $M_{\phi r}$-1.99±.35; Best double couple: NP1:ϕ_s7.00000°,δ56.00000° ,λ-106.00000°. NP2:ϕ_s215.00000°,δ37.00000°,λ-67.00000°. Principal axes: T 5.3000,Plg10.0000°,Azm109.0000°; N -0.1850,Plg13.0000°,Azm16.0000° ; P -5.1190,Plg73.0000°,Azm234.0000° $M_0$5.21000$\times 10^{16}$
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=134.0. Recorded [3 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=105.7.
JMA III 15 11 10 57.7–.30 37.51N 142.25E 16 3.5 ¶602662511

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 11 23 59.8–.94 37.93N–.07 143.84E–.08 35 3.5b 19 3-76
IDC III 15 11 23 55.0–.89 37.87N 144.21E 0 3.9L,3.8 **¶17196124**
ISCJB III 15 11 23 57.9–.73 37.94N–.06 143.83E–.07 33 3.6b,3.8
JMA III 15 11 23 59.2–.50 37.92N 143.75E 47 4.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.5km s-min=18.2km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.4km az=35.5.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 15 11 25 11.0–.62 36.78N–.07 143.24E–.07 35 4.0b 37 2-146
IDC III 15 11 25 05.8–.65 36.79N 143.33E 0 4.2,4.0 **¶16478213**
ISCJB III 15 11 25 09.3–.50 36.83N–.06 143.18E–.05 33 3.9b,4.0
JMA III 15 11 25 10.5–.30 36.85N 142.91E 14 4.1,4.0
NEIC III 15 11 25 11.3–.43 36.80N 143.26E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=16.4km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.1km az=170.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.4km az=170.0.
ISC III 15 11 28 43.5–.66 36.92N–.09 142.49E–.10 9 3.8b 25 2-90
ISCJB III 15 11 28 41.3–.51 36.86N–.06 142.56E–.09 9 3.8b **¶602662294**
IDC III 15 11 28 42.2–.78 36.91N 142.52E 0 4.0,3.9
NEIC III 15 11 28 47.2–.49 36.87N 142.49E 35 4.6b,3.9
JMA III 15 11 28 58.0–.20 38.47N 142.09E 41–3 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.6km s-min=8.5km az=163.1.
IDC Error ellipse: s-maj=19.5km s-min=17.9km az=76.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.6km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 11 31 59.6–.71 36.62N–.10 144.49E–.07 35 3.9b 32 5-88
IDC III 15 11 31 54.6–.72 36.67N 144.55E 0 4.1,4.0 **¶16461797**
ISCJB III 15 11 31 57.7–.51 36.58N–.07 144.45E–.05 33 3.9b,4.0
NEIC III 15 11 32 00.1–1.6 36.61N 144.49E 38–13 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.3km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.6km az=160.6.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=10.9km az=122.0.
IDC III 15 11 34 09.4–1.3 36.75N 143.45E 0 3.8,3.6 ¶17196125

IDC Error ellipse: s-maj=34.3km s-min=26.5km az=87.0.
ISC III 15 11 35 55.4–.89 37.53N–.07 142.58E–.07 21 3.9b 24 1-61
IDC III 15 11 35 52.2–1.0 37.57N 142.69E 0 3.9,3.8 **¶600547595**
ISCJB III 15 11 35 52.7–.67 37.55N–.06 142.82E–.06 21 3.9b,3.8
JMA III 15 11 35 53.1–.30 37.63N 142.67E 9 4.2,3.8
NEIC III 15 11 35 57.4–.80 37.59N 142.53E 35 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=17.3km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.6km az=150.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=12.6km az=104.0.
ISC III 15 11 38 31.7–1.2 36.7N–.10 144.4E–.20 35 3.6b 10 5-88
IDC III 15 11 38 26.3–1.2 36.70N 144.56E 0 3.8,3.7 **¶603145370**
ISCJB III 15 11 38 29.5–1.0 36.73N–.10 144.4E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 11 38 42.5–.58 36.68N–.05 144.47E–.06 35 4.2b 64 3-145
NIED III 15 11 38 00 36.70N 144.30E 11 4.5W **¶17196127**
IDC III 15 11 38 37.0–.61 36.60N 144.65E 0 4.3,4.2
NEIC III 15 11 38 40.2–3.3 36.56N 144.58E 21–23 4.4b,4.2
ISCJB III 15 11 38 40.7–.40 36.67N–.04 144.34E–.04 33 4.1b,4.2
JMA III 15 11 38 41.9–.30 36.70N 144.28E 50 4.6,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ21.00000°,λ-107.00000°. NP2:ϕ_s211.00000°,δ70.00000°,λ-83.00000°. $M_0$6.91000$\times 10^{15}$
IDC Error ellipse: s-maj=16.8km s-min=14.0km az=138.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.6km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.0km az=155.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 15 11 43 48.3–.44 38.00N–.05 145.01E–.05 26 5.2s,4.8b 225 3-152
IDC III 15 11 43 43.5–.47 37.80N 145.10E 0 4.5,4.5 **¶16318250**
ISCJB III 15 11 43 47.4–.25 38.07N–.04 144.83E–.03 26 5.3s,4.7b
JMA III 15 11 43 48.0–.60 38.00N 144.77E 40 4.6,4.7b
MOS III 15 11 43 48.9–1.1 38.22N 144.90E 33 5.0b,4.7b
BJI III 15 11 43 49.2 38.30N 144.50E 10 5.4s,5.3
NEIC III 15 11 43 49.5–.22 37.89N 144.91E 35 4.9b,5.3
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=12.0km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=2.8km az=177.4.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=5.3km az=95.9.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=158.0.
ISC III 15 11 46 17.4–.46 40.47N–.03 143.27E–.04 19–1 5.4s,5.2b 744 1-154
NIED III 15 11 46 00 40.40N 143.60E 14 5.5W,5.2b **¶16336079**
IDC III 15 11 46 13.4–.42 40.36N 143.45E 0 4.9,4.9s
BJI III 15 11 46 14.0 40.34N 143.25E 14 5.6b,5.5s
JMA III 15 11 46 14.2–.30 40.35N 143.56E 17–5 5.5,5.5s
MOS III 15 11 46 17.7–1.1 40.60N 143.19E 25 5.4b,5.5s
ISCJB III 15 11 46 17.6–.85 40.44N–.02 143.20E–.02 28–5 5.3s,5.1b
GCMT III 15 11 46 21.0–.10 40.39N 143.55E 22–0 5.5W,5.1b
NEIC III 15 11 46 21.0–.90 40.42N 142.96E 35–8 5.2b,5.1b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ22.00000°,λ26.00000°. NP2:ϕ_s40.00000°,δ81.00000°,λ110.00000°. $M_0$2.01000$\times 10^{17}$
IDC Error ellipse: s-maj=11.5km s-min=10.2km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=111.4.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=152.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s89,c151; s119,c231; Duration: 1^{s}3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.15±.03 $M_{\theta\theta}$-0.08±.02; $M_{\phi\phi}$-1.07±.02; $M_{r\theta}$0.66±.03; $M_{\theta\phi}$-0.30±.01; $M_{\phi r}$1.33±.05; Best double couple: NP1:ϕ_s24.00000°,δ71.00000° ,λ95.00000°. NP2:ϕ_s188.00000°,δ20.00000°,λ75.00000°. Principal axes: T 1.8890,Plg63.0000°,Azm303.0000°; N -0.0220,Plg5.0000°,Azm202.0000° ; P -1.8710,Plg26.0000°,Azm110.0000° $M_0$1.88000$\times 10^{17}$
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=150.0.
ISC III 15 11 53 23.5–.99 36.99N–.08 143.78E–.10 35 4.0b 13 4-106
IDC III 15 11 53 19.9–.76 37.01N 143.86E 0 4.2,4.1 **¶16478220**
ISCJB III 15 11 53 22.0–.54 36.96N–.05 143.71E–.08 33 4.0b,4.1
NEIC III 15 11 53 24.6–.60 37.00N 143.68E 35 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.8km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.6km az=9.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=10.7km az=109.0.
IDC III 15 11 54 45.6–2.9 38.13N 144.00E 0 3.8,3.7b ¶17196129

IDC Error ellipse: s-maj=73.7km s-min=31.2km az=55.0.
IDC III 15 11 55 29.8–1.4 37.18N 142.28E 0 3.8,3.7 ¶17196132

IDC Error ellipse: s-maj=32.9km s-min=26.5km az=152.0.
ISC III 15 12 12 57.9–1.1 36.5N–.10 143.7E–.10 35 3.8b 10 5-89
IDC III 15 12 12 52.9–1.1 36.50N 143.97E 0 3.8,3.6 **¶17196136**
ISCJB III 15 12 12 55.8–.96 36.54N–.09 143.6E–.20 33 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 12 16 52.2–.65 39.15N–.07 143.56E–.07 20 4.0b 47 2-87
JMA III 15 12 16 44.5–.30 39.16N 143.98E 0 4.3 **¶602662225**
IDC III 15 12 16 49.2–.67 39.14N 143.50E 0 4.1,4.0
ISCJB III 15 12 16 50.6–.49 39.20N–.05 143.53E–.07 20 4.0b,4.0
NEIC III 15 12 16 52.5–3.3 39.21N 143.49E 19–20 4.2b,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=14.1km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.1km az=37.2.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.7km az=123.0.
ISC III 15 12 19 41.7–.99 39.62N–.06 143.19E–.08 18 3.7b 21 1-64
JMA III 15 12 19 39.8–.50 39.31N 143.29E 0 3.8 **¶17196138**
IDC III 15 12 19 40.2–1.2 39.55N 143.14E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=31.9km s-min=22.6km az=78.0.
ISC III 15 12 37 06.7–.87 37.71N–.10 143.9E–.10 35 3.9b 11 6-73
IDC III 15 12 37 01.4–.86 37.68N 143.96E 0 4.1,3.9 **¶17196141**
ISCJB III 15 12 37 04.3–.76 37.71N–.08 143.8E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 12 39 22.7–1.0 37.13N–.06 144.02E–.08 35 3.8b 29 3-61
IDC III 15 12 39 17.7–1.1 37.07N 144.26E 0 3.9,3.8 **¶17196142**
ISCJB III 15 12 39 21.1–.72 37.13N–.05 143.99E–.06 33 3.8b,3.8

JMA III 15 12 39 22.3–.40 37.16N 143.93E 50 4.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=30.0km s-min=19.4km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.3km az=26.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 15 12 44 28.2–1.2 37.77N 144.05E 0 3.8,3.6
¶17196143
IDC Error ellipse: s-maj=35.6km s-min=26.8km az=99.0.
IDC III 15 12 48 26.2–1.2 37.72N 143.46E 0 3.5,3.3
¶17196144
IDC Error ellipse: s-maj=37.5km s-min=25.0km az=131.0.
ISC III 15 12 51 46.4–2.9 39.15N–.03 144.19E–.07 26–20 4.3b 78 2-145
NIED III 15 12 51 00 39.20N 144.30E 5 4.2W **¶16327698**
IDC III 15 12 51 41.6–.57 38.94N 144.31E 0 4.4,4.2
ISCJB III 15 12 51 43.3–1.4 39.12N–.03 144.19E–.04 18–10 4.2b,4.2
NEIC III 15 12 51 43.2–.35 38.97N 144.31E 10 4.6b,4.2
JMA III 15 12 51 44.2–.30 39.16N 144.27E 44 4.4,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ23.00000°,λ-104.00000°. NP2:ϕ_s194.00000°,δ68.00000°,λ-84.00000°. $M_0$2.57000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=12.7km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=42.3.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=129.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 13 05 51.1–.80 37.6N–.10 144.68E–.10 35 3.5b 16 5-75
ISCJB III 15 13 05 49.3–.77 37.6N–.10 144.61E–.10 33 3.5b **¶17196147**
IDC III 15 13 05 51.0–.73 37.64N 144.75E 30–5 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=9.6km az=162.0.
IDC Error ellipse: s-maj=20.5km s-min=16.6km az=121.0.
IDC III 15 13 15 59.4–2.9 36.54N 146.13E 0 3.8,3.6
¶17196149
IDC Error ellipse: s-maj=81.8km s-min=27.4km az=62.0.
ISC III 15 13 18 24.2–.75 37.91N–.07 143.04E–.08 18 4.1b 33 2-83
NIED III 15 13 18 00 38.00N 142.90E 17 4.1W **¶16424514**
ISCJB III 15 13 18 22.7–.54 37.93N–.05 143.09E–.06 18 4.1b
JMA III 15 13 18 24.2–.50 38.00N 142.93E 12 4.5
NEIC III 15 13 18 24.7–5.1 37.97N 142.98E 18–31 4.4b
IDC III 15 13 18 26.6–5.2 37.90N 143.03E 33–41 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ45.00000°,λ-152.00000°. NP2:ϕ_s85.00000°,δ70.00000°,λ-49.00000°. $M_0$1.62000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=6.2km az=155.3.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=9.3km az=114.0.
IDC Error ellipse: s-maj=23.3km s-min=14.8km az=103.0.
IDC III 15 13 25 47.8–1.2 37.53N 144.56E 0 3.7,3.6L
¶17196151
IDC Error ellipse: s-maj=32.9km s-min=24.9km az=79.0.
ISC III 15 13 27 56.7–.54 37.59N–.03 142.34E–.03 31–3 5.8s,5.7b 1485 1-160
NIED III 15 13 27 00 37.60N 142.30E 41 6.0W,5.7b **¶602443560**
IDC III 15 13 27 52.3–.34 37.58N 142.31E 0 5.7,5.7s
JMA III 15 13 27 53.6–.30 37.60N 142.30E 10–4 6.2,5.7s
ISCJB III 15 13 27 54.6–.07 37.59N–.02 142.32E–.01 23 5.8s,5.6b
BJI III 15 13 27 54.3 37.47N 142.17E 29 6.1s,6.0
MOS III 15 13 27 55.9–1.1 37.63N 142.28E 33 5.8b,5.8s
NEIC III 15 13 27 56.0–.00 37.37N 142.23E 25 5.8b,5.8s
NEIC III 15 13 27 56.6–.11 37.58N 142.24E 28 6.0W,5.9W
GCMT III 15 13 27 56.6–.10 37.67N 142.13E 28–0 6.1W,5.9W
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ25.00000°,λ168.00000°. NP2:ϕ_s313.00000°,δ85.00000°,λ66.00000°. $M_0$1.12000×10^{18}
IDC Error ellipse: s-maj=11.5km s-min=8.4km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.5km az=156.1.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=101.1.
NEIC Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{18}Nm; M_{rr}0.17 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-0.26 $M_{r\theta}$-0.90 $M_{\theta\phi}$0.01 $M_{\phi r}$1.01 Best double couple: NP1:ϕ_s319.00000° ,δ87.00000°,λ83.00000°. NP2:ϕ_s205.00000°,δ8.00000°,λ156.00000°. Principal axes: T 1.4000,Plg47.0000°,Azm221.0000°; N -0.0500,Plg7.0000°,Azm319.0000° ; P -1.3400,Plg41.0000°,Azm55.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.4km az=141.0. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 1 second later. Depth based on larger event. Energy computed from CMT mechanism. Moment Tensor Solution. s86 Moment tensor: Scale 10^{17}Nm; M_{rr}0.57 $M_{\theta\theta}$0.82 $M_{\phi\phi}$-1.39 $M_{r\theta}$-6.99 $M_{\theta\phi}$2.62 $M_{\phi r}$5.88 Best double couple: NP1:ϕ_s194.00000°,δ11.00000° ,λ156.00000°. NP2:ϕ_s307.00000°,δ85.00000°,λ80.00000°. Principal axes: T 8.4000,Plg49.0000°,Azm206.0000°; N 2.1000,Plg10.0000°,Azm308.0000° ; P -10.4000,Plg3.0000°,Azm4.0000° $M_0$9.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s130.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s310.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm220.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm40.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c255; s134,c297;Duration: 2s7 Moment tensor: Scale 10^{18}Nm; M_{rr}0.20±.01 $M_{\theta\theta}$0.35±.01; $M_{\phi\phi}$-0.54±.01; $M_{r\theta}$-1.26±.03; $M_{\theta\phi}$0.19±.01; $M_{\phi r}$0.96±.03; Best double couple: NP1: ϕ_s309.00000°,δ87.00000°,λ73.00000°. NP2:ϕ_s207.00000°,δ17.00000°,λ168.00000°. Principal axes: T 1.6740,Plg46.0000°,Azm202.0000°; N -0.0150,Plg17.0000°,Azm310.0000° ; P -1.6590,Plg39.0000°,Azm54.0000° $M_0$1.66700×10^{18}
ISC III 15 13 37 56.4–.59 37.61N–.04 142.06E–.04 43–4 5.1b 701 1-155
BJI III 15 13 37 51.4 37.56N 142.31E 38 5.7b,5.5s **¶602661878**
JMA III 15 13 37 54.9–.20 37.62N 142.00E 30–5 5.3,5.5s
ISCJB III 15 13 37 55.3–.50 37.64N–.03 141.95E–.03 43–4 5.5s,5.0b
MOS III 15 13 37 55.2–.84 37.83N 141.95E 36 5.3b,5.0b
IDC III 15 13 37 56.7–.61 37.67N 142.02E 43–4 4.9,4.8
NEIC III 15 13 37 57.1–.43 37.67N 141.94E 45–4 5.1b,4.8
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=162.1.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=96.6.
IDC Error ellipse: s-maj=10.6km s-min=9.2km az=147.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=145.0. Recorded [3 JMA] in Fukushima and Miyagi.
ISC III 15 13 45 40.1–1.0 39.31N–.07 144.4E–.10 23 3.7b 20 3-63
IDC III 15 13 45 37.0–1.2 39.34N 144.58E 0 4.4,4.4s **¶16424515**
NEIC III 15 13 45 38.5–.69 39.30N 144.39E 10 4.4b,4.4s
ISCJB III 15 13 45 38.3–.78 39.41N–.07 144.6E–.20 23 3.8b,4.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 15 13 47 08.2–.63 37.37N–.08 142.23E–.08 24 4.4b 68 1-83
JMA III 15 13 47 04.2–.40 37.50N 142.31E 0 4.9 **¶602661845**
IDC III 15 13 47 04.7–.69 37.35N 142.25E 0 4.3,4.2b
ISCJB III 15 13 47 05.9–.40 37.37N–.04 142.29E–.06 24 4.4b,4.2b
MOS III 15 13 47 07.2–1.2 37.41N 142.24E 33 5.3b,4.2b
NEIC III 15 13 47 09.9–.38 37.35N 142.15E 35 5.0b,4.2b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=14.9km az=113.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.2km az=37.6.
MOS Error ellipse: s-maj=12.6km s-min=7.1km az=85.4.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=129.0.
IDC III 15 13 49 35.4–1.0 37.38N 143.73E 0 3.9,3.7
¶17196158
IDC Error ellipse: s-maj=31.0km s-min=21.5km az=78.0.
ISC III 15 13 54 35.7–.54 36.91N–.08 144.50E–.08 20–3 4.3b 73 5-88
NEIC III 15 13 54 35.2–2.8 36.93N 144.52E 17–17 4.7b **¶602661815**
IDC III 15 13 54 37.1–.54 36.94N 144.50E 30–3 4.2,4.2
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=109.0.
IDC Error ellipse: s-maj=13.5km s-min=11.7km az=111.0.
ISC III 15 13 55 07.3–.55 38.14N–.09 143.08E–.09 18 4.5b 65 4-145
ISCJB III 15 13 55 05.2–.38 38.07N–.06 143.02E–.06 18 5.0s,4.4b **¶602661811**
IDC III 15 13 55 07.5–.65 38.11N 143.02E 21–3 5.0,5.0s
NEIC III 15 13 55 10.3–1.1 38.10N 143.03E 42–10 4.7b,5.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.8km az=157.7.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=105.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.5km az=133.0.
IDC III 15 13 58 02.1–1.4 38.47N 144.85E 0 4.0,3.8
¶17196160
IDC Error ellipse: s-maj=34.5km s-min=26.3km az=128.0.
JMA III 15 14 04 58.2–.30 37.69N 142.49E 5 3.7
¶602662500
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 14 11 19.1–.89 38.52N–.07 144.35E–.08 29 3.5b 29 3-75
ISCJB III 15 14 11 17.9–.69 38.55N–.06 144.34E–.06 29 3.5b **¶17196162**
JMA III 15 14 11 18.7–.30 38.61N 144.38E 52 4.2
IDC III 15 14 11 20.3–.88 38.43N 144.31E 35–6 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.4km az=9.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=17.2km az=101.0.
ISC III 15 14 20 00.5–.53 36.59N–.05 143.80E–.06 23–3 4.0b 83 2-145
ISCJB III 15 14 19 58.8–1.6 36.56N–.04 143.73E–.04 21–11 4.0b **¶16424523**
JMA III 15 14 20 00.0–.50 36.54N 143.71E 39 4.3
IDC III 15 14 20 01.9–.65 36.55N 143.96E 32–4 4.0,4.0
NEIC III 15 14 20 02.1–.32 36.50N 143.89E 35 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=160.6.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=12.9km az=105.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=162.0.
JMA III 15 14 22 26.6–.50 40.15N 143.55E 10 3.5
¶602661692
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISC III 15 14 24 12.9–.67 37.54N–.06 142.03E–.07 24 4.5s,3.9b 40 1-146
IDC III 15 14 24 09.4–.71 37.54N 142.09E 0 4.6,4.5s **¶602661683**
ISCJB III 15 14 24 11.1–.44 37.50N–.04 142.12E–.05 24 4.5s,3.9b
JMA III 15 14 24 12.3–.20 37.49N 142.07E 26–4 4.1,3.9b
NEIC III 15 14 24 14.4–.35 37.54N 142.06E 35 4.0b,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=15.9km az=99.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=5.3km az=39.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=123.0.
ISC III 15 14 30 26.1–.59 40.34N–.06 143.34E–.07 16 4.4b 67 1-81
IDC III 15 14 30 23.9–.74 40.38N 143.41E 0 4.5L,4.2 **¶16327699**
ISCJB III 15 14 30 23.7–.44 40.27N–.05 143.53E–.06 16 4.2b,4.2
JMA III 15 14 30 25.1–.40 40.43N 143.37E 2–4 4.4,4.2
NEIC III 15 14 30 28.1–.58 40.29N 143.39E 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=15.3km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.4km az=135.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.3km az=117.0.
ISC III 15 14 31 16.1–.69 37.38N–.07 142.30E–.08 21 4.2b 32 1-79
IDC III 15 14 31 12.6–.77 37.30N 142.53E 0 4.2,4.1 **¶16424525**
JMA III 15 14 31 13.5–.40 37.33N 142.30E 13–4 4.4,4.1
ISCJB III 15 14 31 14.3–.50 37.30N–.05 142.35E–.07 21 4.1b,4.1
NEIC III 15 14 31 14.4–4.7 37.32N 142.51E 12–29 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=16.5km az=102.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=7.5km az=153.5.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.5km az=61.0.
ISC III 15 14 36 17.4–.65 36.38N–.10 144.30E–.09 35 3.9b 32 5-150
ISCJB III 15 14 36 15.9–.61 36.35N–.07 144.21E–.09 35 3.8b **¶602661635**
IDC III 15 14 36 16.8–.73 36.44N 144.34E 26–4 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.9km az=44.8.
IDC Error ellipse: s-maj=16.8km s-min=14.5km az=172.0.
IDC III 15 14 46 29.9–8.9 36.38N 143.91E 0 3.9,3.7b
¶17196166
IDC Error ellipse: s-maj=195.5km s-min=45.3km az=33.0.
ISC III 15 14 51 22.5–.43 37.09N–.05 142.16E–.05 19 4.7b 153 1-146
JMA III 15 14 51 18.1–.50 37.12N 142.34E 0 4.5 **¶600548111**
IDC III 15 14 51 19.6–.51 37.09N 142.27E 0 4.6,4.5
ISCJB III 15 14 51 21.0–.24 37.08N–.04 142.17E–.04 19 4.6b,4.5
NEIC III 15 14 51 22.3–1.9 37.14N 142.17E 16–12 4.7b,4.5
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=11.8km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=154.9.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=144.0.
ISC III 15 14 53 24.8–.65 37.36N–.09 143.73E–.09 35 4.2b 31 4-88
IDC III 15 14 53 20.2–.77 37.46N 143.70E 0 4.2,4.0b **¶16424526**
ISCJB III 15 14 53 23.1–.46 37.38N–.06 143.68E–.08 33 4.1b,4.0b
NEIC III 15 14 53 25.4–.33 37.43N 143.69E 35 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=18.3km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=8.0km az=40.3.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.6km az=131.0.
ISC III 15 14 55 15.8–1.1 36.6N–.10 144.5E–.10 35 3.9b 10 5-76
IDC III 15 14 55 10.4–1.1 36.62N 144.70E 0 3.9,3.9 **¶17196167**
ISCJB III 15 14 55 13.6–.97 36.5N–.10 144.5E–.20 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 14 58 54.8–.41 37.51N–.05 143.60E–.05 28–2 4.8b 231 2-145
ISCJB III 15 14 58 51.1–1.3 37.52N–.04 143.59E–.03 12–8 4.6b **¶602661389**
NEIC III 15 14 58 53.9–1.4 37.50N 143.65E 20–10 4.8b
JMA III 15 14 58 54.7–.40 37.49N 143.44E 36 4.6
MOS III 15 14 58 54.2–1.1 37.57N 143.61E 33 5.0b
IDC III 15 14 58 56.5–.43 37.49N 143.66E 40–3 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=163.9.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=136.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.1km az=108.1.
IDC Error ellipse: s-maj=10.9km s-min=9.5km az=114.0.
ISC III 15 15 03 53.6–.49 37.23N–.05 142.08E–.06 19 4.2b 62 1-146
NEIC III 15 15 03 51.1–3.4 37.23N 142.11E 3–22 4.6b **¶16327700**
IDC III 15 15 03 51.3–.65 37.35N 142.06E 0 5.3,5.3s
ISCJB III 15 15 03 52.4–.40 37.31N–.05 142.08E–.04 19 5.4s,4.1b
JMA III 15 15 03 55.6–.20 37.34N 141.93E 24 4.4,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.6km az=103.0.
IDC Error ellipse: s-maj=16.8km s-min=13.8km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.3km az=157.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 15 07 33.8–1.8 37.3N–.30 142.8E–.20 24 3.9b 11 26-89
IDC III 15 15 07 29.4–3.0 37.15N 142.76E 0 4.1,3.9 **¶16424530**
ISCJB III 15 15 07 32.4–1.6 37.3N–.30 142.7E–.20 24 3.9b,3.9
NEIC III 15 15 07 35.4–1.2 37.27N 142.75E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=76.5km s-min=28.8km az=179.0.
ISCJB Event type se. Error ellipse: s-maj=42.0km s-min=18.2km az=167.7.
NEIC Event type se. Error ellipse: s-maj=32.1km s-min=13.8km az=168.0.
ISC III 15 15 12 46.1–.91 36.71N–.06 144.34E–.09 35 3.6b 28 3-88
IDC III 15 15 12 40.1–1.1 36.64N 144.67E 0 3.8,3.7 **¶17196170**
JMA III 15 15 12 44.6–.50 36.75N 144.28E 44 4.2,3.7
ISCJB III 15 15 12 44.4–.70 36.70N–.06 144.27E–.07 33 3.5b,3.7

ISC Event type ke.
ISCJB Event type ke.
IDC III 15 15 18 16.7–1.5 37.45N 144.34E 0 3.6,3.3
¶17196172
IDC Error ellipse: s-maj=36.4km s-min=30.7km az=140.0.
ISC III 15 15 23 54.6–.41 40.35N–.03 143.38E–.03 23–2 5.9s,5.7b 1664 1-154
NIED III 15 15 23 00 40.40N 143.50E 20 6.1W,5.7b **¶17196173**
IDC III 15 15 23 50.8–.43 40.35N 143.42E 0 6.0,6.0s
ISCJB III 15 15 23 51.2–.64 40.39N–.02 143.29E–.02 6–4 6.0s,5.6b
JMA III 15 15 23 52.3–.30 40.37N 143.47E 18–4 6.3,5.6b
NEIC III 15 15 23 53.9–.10 40.34N 143.29E 18 6.1W,6.1W
BJI III 15 15 23 53.4 40.50N 143.15E 33 6.4b,6.3s
NEIC III 15 15 23 53.0–.00 40.40N 143.59E 15 6.4b,6.3s
GCMT III 15 15 23 54.1–.10 40.36N 143.50E 23–0 6.0W,6.3s
MOS III 15 15 23 54.3–.92 40.49N 143.33E 26 6.0s,5.9b
NEIC III 15 15 24 10.8–.00 40.11N 143.69E 30 6.0s,5.9b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ23.00000°,λ45.00000°. NP2:ϕ_s33.00000°,δ74.00000°,λ107.00000°. $M_0$1.35000×10^{18}
IDC Error ellipse: s-maj=12.5km s-min=10.7km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=156.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=146.0. Felt [II] at Misawa. Recorded [3 JMA] in Aomori and Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ20.00000°,λ51.00000°. NP2:ϕ_s19.00000°,δ75.00000°,λ103.00000°. Principal axes: T 1.2800,Plg58.0000°,Azm307.0000° ; N -0.0200,Plg12.0000°,Azm196.0000°; P -1.2600,Plg29.0000°,Azm99.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s200.00000°,δ7.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ83.00000°,λ90.00000°. Principal axes: T Plg52.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg38.0000°,Azm110.0000°
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}0.50 $M_{\theta\theta}$0.00 $M_{\phi\phi}$-0.50 $M_{r\theta}$0.90 $M_{\theta\phi}$-0.10 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s26.00000°,δ82.00000°,λ94.00000°. NP2:ϕ_s175.00000°,δ8.00000°,λ59.00000°. Principal axes: T 1.9000,Plg52.0000°,Azm301.0000°; N 0.0000,Plg4.0000°,Azm206.0000° ; P -1.9000,Plg37.0000°,Azm112.0000° $M_0$2.00000×10^{18}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c252; s137,c421;Duration: 2τ5 Moment tensor: Scale 10^{18}Nm; M_{rr}0.77±.01 $M_{\theta\theta}$-0.03±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.44±.01; $M_{\theta\phi}$-0.16±.01; $M_{\phi r}$0.95±.02; Best double couple: NP1:ϕ_s22.00000°,δ72.00000°,λ96.00000°. NP2:ϕ_s183.00000°,δ19.00000°,λ72.00000°. Principal axes: T 1.3110,Plg62.0000°,Azm302.0000°; N -0.0230,Plg6.0000°,Azm200.0000° ; P -1.2870,Plg27.0000°,Azm107.0000° $M_0$1.29900×10^{18}
MOS Error ellipse: s-maj=5.5km s-min=3.4km az=102.4.
NEIC Event type se. Moment Tensor Solution. s30 Moment tensor: Scale 10^{18}Nm; M_{rr}0.69 $M_{\theta\theta}$0.12 $M_{\phi\phi}$-0.82 $M_{r\theta}$0.32 $M_{\theta\phi}$-0.06 $M_{\phi r}$1.57 Best double couple: NP1:ϕ_s174.00000°,δ13.00000°,λ74.00000°. NP2:ϕ_s11.00000°,δ77.00000°,λ94.00000°. Principal axes: T 1.7200,Plg57.0000°,Azm286.0000°; N 0.1100,Plg4.0000°,Azm190.0000° ; P -1.8300,Plg32.0000°,Azm98.0000° $M_0$1.80000×10^{18}
JMA III 15 15 44 32.2–.60 39.70N 144.38E 0 3.6
¶602661348
JMA Error ellipse: s-maj=4.4km s-min=5.1km az=-1.0.
ISC III 15 15 51 02.3–1.7 39.8N–.20 143.8E–.20 16 3.4b 7 6-60
IDC III 15 15 50 59.8–1.7 39.82N 143.82E 0 4.1L,3.7 **¶17196176**
ISCJB III 15 15 51 00.6–1.5 39.8N–.10 143.8E–.30 16 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 15 56 22.5–.56 37.06N–.07 143.78E–.06 35 4.1b 62 3-145
IDC III 15 15 56 17.2–.62 37.07N 143.97E 0 4.3,4.1 **¶16424531**
ISCJB III 15 15 56 20.6–.39 37.03N–.05 143.73E–.04 33 4.2b,4.1
JMA III 15 15 56 21.9–.30 37.14N 143.59E 34 4.3,4.1
NEIC III 15 15 56 22.5–.38 37.09N 143.87E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=15.3km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=159.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.4km az=150.0.
ISC III 15 16 09 39.8–.58 37.93N–.06 143.83E–.06 35 4.2b 93 3-83
NEIC III 15 16 09 34.3–2.1 37.81N 143.92E 1–13 4.7b **¶600548208**
IDC III 15 16 09 34.1–.63 37.80N 143.92E 0 4.3,4.3b
ISCJB III 15 16 09 37.7–.34 37.85N–.04 143.80E–.04 33 4.2b,4.3b
JMA III 15 16 09 38.0–.50 37.87N 143.79E 46 4.3,4.3b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=120.0.
IDC Error ellipse: s-maj=15.6km s-min=13.2km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=162.5.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 15 16 17 09.8–1.5 37.6N–.10 142.5E–.10 21 3.6b 15 1-49
IDC III 15 16 17 04.3–4.3 37.22N 142.58E 0 3.7,3.6 **¶600548233**
ISCJB III 15 16 17 08.4–1.1 37.59N–.08 142.49E–.08 21 3.5b,3.6
JMA III 15 16 17 10.4–.30 37.72N 142.28E 9 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=86.5km s-min=28.0km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=7.9km az=158.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 16 21 15.7–1.1 37.3N–.10 144.2E–.10 35 3.7b 12 5-75
IDC III 15 16 21 10.2–1.1 37.38N 144.33E 0 3.8,3.6 **¶17196182**
ISCJB III 15 16 21 13.4–.86 37.3N–.10 144.2E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 16 28 17.9–1.1 37.8N–.20 143.9E–.10 35 3.8b 13 11-76
IDC III 15 16 28 12.6–1.1 37.78N 143.91E 0 3.9,3.7 **¶17196185**
ISCJB III 15 16 28 15.7–.95 37.8N–.10 143.8E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 16 36 39.7–1.2 37.3N–.20 143.7E–.20 35 3.5b 8 10-61
IDC III 15 16 36 34.5–1.1 37.29N 143.75E 0 3.7,3.5 **¶17196188**
ISCJB III 15 16 36 37.3–.95 37.3N–.10 143.8E–.20 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 16 37 34.6–.59 37.53N–.05 142.22E–.07 24 4.0b 49 1-89
IDC III 15 16 37 31.0–.69 37.58N 142.13E 0 4.2,4.0 **¶16427608**
ISCJB III 15 16 37 32.6–.39 37.51N–.04 142.24E–.05 24 4.0b,4.0
JMA III 15 16 37 35.6–.30 37.56N 142.09E 29 4.1,4.0
NEIC III 15 16 37 37.5–1.1 37.58N 142.12E 48–11 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=15.5km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.8km az=135.8.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.9km az=82.0.
ISC III 15 16 42 39.2–1.1 36.4N–.20 143.4E–.20 35 4.0b 10 12-89
IDC III 15 16 42 33.6–1.2 36.37N 143.57E 0 4.1,4.0b **¶16461801**
ISCJB III 15 16 42 37.3–.95 36.3N–.20 143.3E–.30 33 4.0b,4.0b
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 16 50 22.7–.71 36.01N–.09 143.4E–.10 35 3.7b 17 4-89
IDC III 15 16 50 17.6–.69 36.04N 143.54E 0 3.9,3.8 **¶17196191**
ISCJB III 15 16 50 20.6–.57 35.98N–.07 143.4E–.10 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 16 55 51.9–8.9 36.51N 143.52E 0 3.7,3.5b
¶17196192
IDC Error ellipse: s-maj=195.4km s-min=47.2km az=32.0.
IDC III 15 16 56 58.4–1.2 37.21N 144.44E 0 3.5,3.3
¶17196193
IDC Error ellipse: s-maj=50.7km s-min=25.3km az=101.0.
JMA III 15 17 02 25.6–.40 36.35N 143.45E 26 3.7
¶602662166
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
IDC III 15 17 05 22.3–1.1 37.77N 144.10E 0 3.7,3.5
¶17196194
IDC Error ellipse: s-maj=35.7km s-min=21.7km az=93.0.
ISC III 15 17 12 32.5–1.1 38.7N–.20 143.9E–.20 14 3.7b 11 11-74
IDC III 15 17 12 30.4–1.0 38.68N 143.85E 0 3.8,3.7 **¶17196197**
ISCJB III 15 17 12 30.4–.86 38.6N–.10 143.9E–.20 14 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 17 14 04.4–1.0 36.0N–.10 143.4E–.10 35 3.9b 10 4-89
IDC III 15 17 13 59.4–1.0 35.94N 143.83E 0 4.1,3.9 **¶16478291**
ISCJB III 15 17 14 02.7–.80 35.84N–.10 143.4E–.10 33 4.0b,3.9
NEIC III 15 17 14 04.4–.79 36.02N 143.51E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=32.8km s-min=22.6km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=10.7km az=43.9.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=17.5km az=189.0.
ISC III 15 17 15 50.4–1.2 36.71N–.07 142.10E–.09 19 3.4b 15 1-49
IDC III 15 17 15 48.4–2.0 36.85N 142.04E 0 3.6,3.6 **¶17196198**
ISCJB III 15 17 15 48.7–.00 36.66N–.06 142.16E–.08 19 3.4b,3.6
JMA III 15 17 15 49.8–.30 36.73N 142.18E 30–5 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=28.2km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=8.4km az=173.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 15 17 20 42.8–.88 37.63N–.06 143.98E–.08 35 3.7b 28 3-76
IDC III 15 17 20 37.2–1.0 37.41N 144.16E 0 3.9,3.8 **¶600548349**
ISCJB III 15 17 20 41.0–.69 37.61N–.05 143.94E–.07 33 3.7b,3.8
JMA III 15 17 20 43.1–.50 37.58N 143.81E 55 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=18.5km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=7.2km az=173.5.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 15 17 22 40.0–1.3 39.51N–.10 143.63E–.08 11 3.5b 18 2-61
JMA III 15 17 22 35.0–.80 39.48N 143.87E 0 3.9 **¶17196200**
ISCJB III 15 17 22 38.2–1.1 39.50N–.08 143.72E–.09 11 3.4b
IDC III 15 17 22 41.3–1.3 39.91N 143.49E 0 3.7,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=6.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.8km az=143.4.
IDC Error ellipse: s-maj=31.8km s-min=24.7km az=122.0.
IDC III 15 17 28 58.5–1.2 37.60N 144.54E 0 3.7,3.5
¶17196203
IDC Error ellipse: s-maj=49.0km s-min=22.5km az=112.0.
JMA III 15 17 49 55.5–.30 40.33N 143.20E 0 3.5
¶602662100
JMA Error ellipse: s-maj=2.2km s-min=2.5km az=-1.0.
JMA III 15 17 54 01.6–.50 37.52N 142.42E 0 3.8
¶602662093
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
JMA III 15 17 55 19.1–.30 39.41N 143.14E 0 4.0
¶602662092
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 15 17 56 18.9–.84 37.06N–.09 142.3E–.10 9 4.0b 18 3-77
IDC III 15 17 56 17.7–1.1 37.11N 142.30E 0 4.1,4.0 **¶16478301**
ISCJB III 15 17 56 17.1–.73 37.04N–.07 142.3E–.10 9 3.9b,4.0
NEIC III 15 17 56 23.1–1.8 37.09N 142.24E 36–15 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=20.1km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=8.3km az=26.9.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=14.3km az=138.0.
ISC III 15 18 02 20.2–.88 40.38N–.06 143.67E–.09 16 3.7b 31 2-67
IDC III 15 18 02 17.4–1.1 40.31N 143.80E 0 4.3L,3.8 **¶16478303**
ISCJB III 15 18 02 18.1–.69 40.33N–.04 143.78E–.09 16 3.7b,3.8
JMA III 15 18 02 20.1–.30 40.44N 143.48E 6 4.0,3.8
NEIC III 15 18 02 22.3–.80 40.32N 143.72E 35 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=19.6km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.4km az=22.8.
JMA Error ellipse: s-maj=2.2km s-min=2.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=9.4km az=120.0.
JMA III 15 18 03 42.6–.40 36.74N 142.25E 12 3.8
¶602662062
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC III 15 18 08 17.1–.71 35.97N–.09 143.25E–.10 35 3.8b 21 4-146
IDC III 15 18 08 11.8–.69 36.05N 143.39E 0 4.0,4.0L **¶602662037**
ISCJB III 15 18 08 15.1–.59 35.93N–.08 143.20E–.09 33 3.9b,4.0L
NEIC III 15 18 08 17.1–.63 35.98N 143.26E 35 4.6b,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=17.3km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.9km az=138.1.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=12.0km az=160.0.
IDC III 15 18 09 19.4–1.2 36.90N 143.72E 0 4.0,3.8
¶17196208
IDC Error ellipse: s-maj=40.2km s-min=24.4km az=81.0.
ISC III 15 18 22 06.3–1.4 39.5N–.10 143.01E–.08 18 3.8b 13 1-60
IDC III 15 18 22 03.6–1.6 39.52N 142.97E 0 3.9,3.8b **¶600548481**
ISCJB III 15 18 22 04.1–1.1 39.5N–.10 143.18E–.09 18 3.8b,3.8b
JMA III 15 18 22 07.4–.20 39.62N 142.97E 13 4.2,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=38.3km s-min=26.0km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=9.5km az=173.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 15 18 29 11.8–.56 37.73N–.04 143.64E–.04 27–3 5.0b,4.3s 707 2-150
ISCJB III 15 18 29 07.9–.82 37.66N–.03 143.54E–.02 9–5 4.9b,4.3s **¶16318271**
IDC III 15 18 29 07.4–.50 37.59N 143.64E 0 4.7,4.7
GCMT III 15 18 29 10.7–.40 37.70N 143.61E 19–1 4.9W,4.7
JMA III 15 18 29 10.7–.40 37.62N 143.48E 45 4.8,4.7
NEIC III 15 18 29 10.7–1.8 37.63N 143.53E 18–11 5.0b,4.7
BJI III 15 18 29 10.3 37.81N 143.75E 38 5.1b,4.7b
MOS III 15 18 29 12.3–.94 37.98N 143.46E 28 5.2b,4.7b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.4km az=174.0.
IDC Error ellipse: s-maj=13.6km s-min=11.5km az=133.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c16; s64,c98; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.61±.24 $M_{\theta\theta}$0.37±.13; $M_{\phi\phi}$2.25±.15; $M_{r\theta}$-0.32±.29; $M_{\theta\phi}$1.16±.07; $M_{\phi r}$-0.43±.26; Best double couple: NP1:ϕ_s28.00000°,δ51.00000°,λ-87.00000°. NP2:ϕ_s203.00000°,δ40.00000°,λ-94.00000°. Principal axes: T 2.8540,Plg6.0000°,Azm116.0000°; N -0.1810,Plg2.0000°,Azm206.0000° ; P -2.6660,Plg84.0000°,Azm319.0000° $M_0$2.76000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=2.9km az=155.0. Recorded [4 JMA] in Gifu.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=105.8.
ISC III 15 18 41 18.2–1.1 38.7N–.10 143.22E–.08 15 4.4b 40 2-73
ISCJB III 15 18 41 16.2–.59 38.77N–.06 143.44E–.07 15 4.0b **¶16461768**
IDC III 15 18 41 17.1–1.1 38.83N 143.44E 0 4.0,3.8
JMA III 15 18 41 19.2–.60 39.11N 143.30E 0 4.4,3.8
NEIC III 15 18 41 22.5–.98 38.96N 143.34E 35 4.4b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=7.5km az=31.7.
IDC Error ellipse: s-maj=32.5km s-min=23.1km az=104.0.
JMA Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.4km s-min=16.7km az=115.0.
JMA III 15 18 44 01.2–.30 39.63N 143.26E 16 3.5
¶602661198
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 15 18 48 14.3–.80 37.85N–.06 143.92E–.07 35 3.8b 39 3-76
IDC III 15 18 48 08.9–1.1 37.73N 144.03E 0 3.9,3.8 **¶16478312**
NEIC III 15 18 48 12.7–3.9 37.71N 144.02E 24–27 4.0b,3.8
JMA III 15 18 48 13.7–.30 37.90N 143.79E 45 4.2,3.8
ISCJB III 15 18 48 13.6–.64 37.94N–.05 143.82E–.05 33 3.7b,3.8
ISC Event type se.
NEIC Event type se.

ISCJB Event type se.
IDC III 15 18 50 58.9–1.5 37.41N 142.01E 0 3.8,3.7L ¶600548532
IDC Error ellipse: s-maj=31.7km s-min=30.6km az=123.0.
ISC III 15 18 57 37.1–.55 37.03N–.05 143.54E–.05 35 4.2b 66 2-145
NIED III 15 18 57 00 37.00N 143.40E 8 4.3W **¶602661174**
IDC III 15 18 57 31.2–.57 36.83N 143.76E 0 4.3,4.1
ISCJB III 15 18 57 34.6–.41 36.97N–.03 143.55E–.04 33 4.2b,4.1
JMA III 15 18 57 36.5–.50 36.96N 143.40E 63 4.3,4.1
NEIC III 15 18 57 36.4–.42 36.87N 143.67E 35 4.4b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S6.00000°,δ26.00000°,λ-111.00000°. NP2:ϕ_S209.00000°,δ66.00000°,λ-80.00000°. $M_0$3.08000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=13.2km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.5km az=135.9.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.0km az=140.0.
JMA III 15 18 58 41.6–.20 36.13N 142.12E 27 3.9 ¶602661173
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 15 19 09 45.9–1.7 37.68N 144.71E 0 3.7,3.6 ¶17196214
IDC Error ellipse: s-maj=45.6km s-min=23.2km az=72.0.
IDC III 15 19 10 32.8–2.0 38.78N 144.56E 0 3.9,3.9b ¶17196217
IDC Error ellipse: s-maj=59.2km s-min=22.9km az=69.0.
ISC III 15 19 13 35.1–.38 38.47N–.04 143.40E–.06 15 4.8b 170 2-149
JMA III 15 19 13 33.5–.20 38.48N 143.56E 43 4.9 **¶16320498**
IDC III 15 19 13 33.3–.51 38.47N 143.36E 0 4.6,4.6
NEIC III 15 19 13 34.9–.22 38.51N 143.27E 10 4.9b,4.6
ISCJB III 15 19 13 34.2–.21 38.49N–.03 143.32E–.04 15 4.7b,4.6s
ISC Event type se.
JMA Event type fe.
NEIC Event type se.
ISCJB Event type fe.
ISC III 15 19 19 39.0–1.7 36.9N–.10 143.6E–.20 35 3.8b 9 4-61
IDC III 15 19 19 32.0–2.1 37.05N 144.04E 0 3.8,3.7 **¶17196218**
ISC Event type ke.
IDC Error ellipse: s-maj=53.7km s-min=23.6km az=67.0.
ISC III 15 19 21 36.7–.66 36.79N–.10 143.54E–.08 35 4.1b 32 4-84
ISCJB III 15 19 21 34.9–.58 36.79N–.09 143.49E–.08 33 4.0b **¶16478320**
NEIC III 15 19 21 36.9–.58 36.83N 143.53E 35 4.4b
IDC III 15 19 21 36.2–.74 36.75N 143.57E 30–5 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=8.4km az=166.3.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=11.1km az=144.0.
IDC Error ellipse: s-maj=17.3km s-min=13.8km az=80.0.
ISC III 15 19 21 57.6–1.2 36.7N–.20 143.2E–.20 29 4.0b 7 4-70
IDC III 15 19 21 53.3–1.1 36.72N 143.26E 0 4.2,4.0 **¶17196221**
ISCJB III 15 19 21 55.5–1.0 36.7N–.20 143.3E–.20 29 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 19 29 15.7–1.2 37.7N–.20 144.5E–.20 35 3.6b 7 5-69
IDC III 15 19 29 10.6–1.1 37.67N 144.64E 0 3.7,3.7L **¶17196226**
ISCJB III 15 19 29 13.4–.97 37.6N–.10 144.6E–.20 33 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 19 30 08.2–2.7 37.25N 143.67E 0 3.7,3.7L ¶17196230
IDC Error ellipse: s-maj=74.8km s-min=25.8km az=59.0.
IDC III 15 19 37 48.3–2.6 38.15N 144.37E 0 4.0,3.8b ¶17196232
IDC Error ellipse: s-maj=73.0km s-min=26.3km az=59.0.
ISC III 15 19 39 46.8–1.1 37.0N–.20 143.7E–.10 35 3.7b 16 4-89
IDC III 15 19 39 41.4–.98 36.96N 143.80E 0 3.9,3.8L **¶16461803**
ISCJB III 15 19 39 44.6–.79 36.9N–.10 143.67E–.09 33 3.7b,3.8L
NEIC III 15 19 39 46.8–.58 36.98N 143.69E 35 4.1b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=29.1km s-min=20.3km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=9.9km az=165.5.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=10.9km az=152.0.
ISC III 15 19 40 33.9–1.2 37.8N–.20 143.6E–.20 19 4.0b 12 5-75
ISCJB III 15 19 40 31.9–.79 37.8N–.10 143.7E–.10 19 4.0b **¶16478337**
IDC III 15 19 40 31.2–.84 37.81N 143.78E 0 4.1,4.0
NEIC III 15 19 40 36.3–.69 37.80N 143.64E 35 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=11.4km az=43.7.
IDC Error ellipse: s-maj=23.7km s-min=16.7km az=104.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=10.2km az=132.0.
ISC III 15 19 46 16.2–.54 36.73N–.07 142.17E–.05 19 4.0b 47 1-146
NIED III 15 19 46 00 36.40N 141.70E 23 4.0W **¶600548593**
ISCJB III 15 19 46 14.5–.44 36.79N–.05 142.25E–.05 19 4.0b
NEIC III 15 19 46 16.4–.68 36.97N 142.27E 16–3 4.6b
IDC III 15 19 46 17.5–.67 36.94N 142.25E 23–4 3.9,3.9
JMA III 15 19 46 22.1–.20 36.44N 141.73E 64–4 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S250.00000°,δ34.00000°,λ-24.00000°. NP2:ϕ_S0.00000°,δ77.00000°,λ-122.00000°. $M_0$9.74000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.5km az=155.9.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.3km az=150.0.
IDC Error ellipse: s-maj=16.8km s-min=13.1km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 19 48 50.4–.78 39.17N–.07 143.07E–.07 27–5 4.1b 47 1-88
JMA III 15 19 48 48.3–.30 39.27N 142.97E 0–5 4.3 **¶16478341**
ISCJB III 15 19 48 50.6–1.2 39.18N–.05 143.07E–.08 42–9 4.1b,3.6s
IDC III 15 19 48 50.4–.66 39.15N 143.13E 26–4 4.0,4.0
NEIC III 15 19 48 51.6–.53 39.18N 143.21E 35 4.5b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=8.6km az=7.9.
IDC Error ellipse: s-maj=15.9km s-min=13.8km az=104.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.8km az=129.0.
ISC III 15 19 53 19.0–.79 37.62N–.04 142.31E–.05 29–5 4.8b 301 1-146
NIED III 15 19 53 00 37.70N 142.10E 35 4.8W **¶602661107**
IDC III 15 19 53 15.3–.49 37.66N 142.13E 0 4.6,4.6b
ISCJB III 15 19 53 16.2–1.2 37.65N–.03 142.26E–.03 15–7 4.7b,3.5s
MOS III 15 19 53 17.9–1.1 37.71N 142.31E 33 5.0b,3.5s
JMA III 15 19 53 19.6–.30 37.67N 142.08E 25–4 5.1,3.5s
NEIC III 15 19 53 20.5–1.4 37.72N 142.14E 33–10 4.9b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S160.00000°,δ79.00000°,λ1.00000°. NP2:ϕ_S70.00000°,δ89.00000°,λ169.00000°. $M_0$1.51000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=11.6km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=143.4.
MOS Error ellipse: s-maj=7.2km s-min=4.8km az=100.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=128.0. Recorded [3 JMA] in Fukushima.
ISC III 15 20 00 17.5–.52 37.79N–.05 143.93E–.06 35 4.4b 79 3-118
NIED III 15 20 00 00 37.90N 143.80E 5 4.1W **¶16401062**
NEIC III 15 20 00 15.6–2.4 37.80N 143.92E 18–15 4.6b
ISCJB III 15 20 00 15.8–.39 37.80N–.04 143.87E–.04 33 4.3b
JMA III 15 20 00 17.0–.60 37.86N 143.78E 30 4.7
IDC III 15 20 00 18.3–.61 37.76N 143.89E 38–4 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S180.00000°,δ33.00000°,λ-141.00000°. NP2:ϕ_S56.00000°,δ70.00000°,λ-63.00000°. $M_0$1.44000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=140.8.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=12.0km az=95.0.

ISC III 15 20 02 50.3–.76 34.95N–.05 141.30E–.07 27 3.7b 26 0-80
IDC III 15 20 02 46.1–.89 34.93N 141.29E 0 3.8,3.8b **¶600548608**
ISCJB III 15 20 02 47.9–.63 34.91N–.05 141.46E–.07 27 3.7b,3.8b
JMA III 15 20 02 48.6–.50 34.87N 141.43E 45–4 3.2,3.8b
NEIC III 15 20 02 51.3–.62 34.91N 141.22E 35 4.4b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=15.9km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.6km az=15.6.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=12.7km az=72.0.
ISC III 15 20 14 33.8–.34 37.75N–.03 143.46E–.03 24–2 5.1b,4.8s 896 2-160
NIED III 15 20 14 00 37.80N 143.50E 11 4.9W,4.8s **¶16320502**
MOS III 15 20 14 31.1–.91 37.74N 143.44E 17 5.3b,4.8s
JMA III 15 20 14 32.4–.40 37.76N 143.46E 43 5.1,4.8s
BJI III 15 20 14 32.2 37.85N 143.02E 10 5.2b,5.1b
NEIC III 15 20 14 33.5–1.2 37.69N 143.45E 22–8 5.1b,5.1b
GCMT III 15 20 14 33.5–.30 37.91N 143.50E 12–1 5.0W,5.1b
ISCJB III 15 20 14 33.8–.10 37.71N–.02 143.42E–.02 35 5.0b,4.9s
IDC III 15 20 14 35.5–.46 37.72N 143.49E 36–3 4.9,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S19.00000°,δ23.00000°,λ-94.00000°. NP2:ϕ_S203.00000°,δ67.00000°,λ-88.00000°. $M_0$2.98000×10^{16}
MOS Error ellipse: s-maj=6.2km s-min=4.4km az=106.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=135.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c29; s82,c130; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.28±.21 $M_{\theta\theta}$0.85±.12; $M_{\phi\phi}$2.42±.14; $M_{r\theta}$1.71±.40; $M_{\theta\phi}$0.94±.07; $M_{\phi r}$1.52±.36; Best double couple: NP1:ϕ_S218.00000°,δ63.00000°,λ-80.00000°. NP2:ϕ_S17.00000°,δ28.00000°,λ-109.00000°. Principal axes: T 3.5370,Plg18.0000°,Azm300.0000°; N 0.5520,Plg9.0000°,Azm33.0000°; P -4.0960,Plg70.0000°,Azm149.0000° $M_0$3.81600×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=161.3.
IDC Error ellipse: s-maj=10.3km s-min=8.7km az=101.0.
ISC III 15 20 24 10.4–1.0 38.5N–.10 143.0E–.20 23 3.7b 10 4-62
IDC III 15 20 24 06.9–.96 38.47N 143.09E 0 3.9,3.8 **¶17196237**
ISCJB III 15 20 24 08.3–.83 38.44N–.09 143.1E–.20 23 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 20 28 36.1–2.4 36.53N 144.56E 0 4.1L,4.0 ¶17196241
IDC Error ellipse: s-maj=56.3km s-min=29.6km az=56.0.
IDC III 15 20 41 45.2–1.2 37.63N 144.25E 0 3.9,3.6 ¶17196243
IDC Error ellipse: s-maj=35.0km s-min=26.2km az=105.0.
IDC III 15 20 43 39.6–11 37.37N 143.91E 0 3.9,3.8b ¶17196244
IDC Error ellipse: s-maj=235.8km s-min=50.4km az=22.0.
ISC III 15 20 49 18.3–.78 38.01N–.07 143.90E–.07 27–4 3.8b 35 3-76
ISCJB III 15 20 49 18.0–1.4 37.99N–.06 143.82E–.08 39–12 3.8b **¶17196245**
JMA III 15 20 49 18.1–.40 38.01N 143.80E 48 4.2
IDC III 15 20 49 19.8–.74 38.00N 143.99E 39–7 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.7km az=25.3.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=14.1km az=104.0.
ISC III 15 20 58 42.2–.92 37.93N–.08 143.82E–.09 35–4 4.0b 36 3-76
ISCJB III 15 20 58 40.9–1.3 37.96N–.06 143.79E–.08 37–11 3.9b **¶17196246**
JMA III 15 20 58 41.1–.20 37.99N 143.77E 42 4.3
IDC III 15 20 58 42.0–.69 37.85N 143.93E 35–6 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=9.4km az=23.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.5km s-min=14.5km az=108.0.
IDC III 15 21 01 38.5–9.1 36.83N 142.16E 0 3.8,3.6 ¶17196253
IDC Error ellipse: s-maj=330.1km s-min=27.8km az=64.0.
IDC III 15 21 17 01.5–1.9 37.46N 142.77E 0 3.9,3.8 ¶17196256
IDC Error ellipse: s-maj=47.7km s-min=23.7km az=80.0.
ISC III 15 21 19 50.2–.93 37.7N–.20 143.4E–.20 35 3.6b 14 4-80
IDC III 15 21 19 44.8–.85 37.67N 143.40E 0 4.5s,4.5 **¶17196257**
ISCJB III 15 21 19 47.8–.70 37.6N–.10 143.4E–.20 33 4.5s,3.6b
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 21 22 50.5–1.1 38.14N 145.04E 0 3.7,3.5 ¶17196258
IDC Error ellipse: s-maj=34.3km s-min=21.8km az=106.0.
ISC III 15 21 26 01.4–1.6 34.39N–.09 141.5E–.20 27 3.7b 11 2-61
IDC III 15 21 25 57.4–1.7 34.38N 141.53E 0 3.8,3.7b **¶16478366**
ISCJB III 15 21 25 58.8–1.2 34.40N–.08 141.7E–.10 27 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 21 27 54.9–.96 37.3N–.20 142.6E–.20 21 3.7b 10 26-89
IDC III 15 21 27 51.5–.90 37.32N 142.63E 0 4.0,3.8 **¶17196261**
ISCJB III 15 21 27 53.0–.75 37.3N–.10 142.6E–.20 21 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 21 35 07.4–.58 37.70N–.07 145.01E–.08 35 4.1b 45 5-87
IDC III 15 21 35 03.1–.77 37.71N 145.09E 0 4.0L,3.9 **¶16478370**
ISCJB III 15 21 35 05.6–.40 37.69N–.06 145.03E–.08 33 4.2b,3.9
NEIC III 15 21 35 08.0–.36 37.75N 145.05E 35 4.8b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=16.5km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=10.6km s-min=6.8km az=136.4.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.7km az=138.0.
IDC III 15 21 36 37.0–2.8 38.07N 145.44E 0 3.8,3.8L ¶17196263
IDC Error ellipse: s-maj=72.2km s-min=31.1km az=66.0.
ISC III 15 21 42 10.4–3.0 39.64N–.05 143.22E–.06 28–22 4.8b 161 1-144
NIED III 15 21 42 00 39.70N 143.10E 5 4.6W **¶16327712**
JMA III 15 21 42 06.8–.40 39.70N 143.14E 1–5 4.6
ISCJB III 15 21 42 07.9–1.3 39.58N–.03 143.18E–.03 21–9 4.6b,3.9s
NEIC III 15 21 42 11.8–.60 39.59N 143.12E 38–5 4.8b,3.9s
IDC III 15 21 42 11.3–2.9 39.58N 143.22E 36–24 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S214.00000°,δ22.00000°,λ177.00000°. NP2:ϕ_S307.00000°,δ89.00000°,λ68.00000°. $M_0$9.31000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=155.3.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=3.8km az=138.0.
IDC Error ellipse: s-maj=14.6km s-min=12.2km az=126.0.
ISC III 15 22 00 27.6–1.5 37.33N–.08 142.2E–.10 21 3.5b 12 1-57
IDC III 15 22 00 21.9–1.6 37.39N 142.86E 0 3.7,3.7 **¶17196267**
ISCJB III 15 22 00 25.2–1.1 37.25N–.07 142.4E–.10 21 3.5b,3.5s
JMA III 15 22 00 29.8–.40 37.45N 142.03E 70 3.5,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=27.1km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=9.8km az=2.9.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 15 22 07 04.5–.90 37.20N–.09 142.58E–.08 9 3.7b 24 1-118
ISCJB III 15 22 07 02.5–.69 37.15N–.07 142.67E–.06 9 3.7b **¶602661529**
IDC III 15 22 07 02.5–1.1 37.13N 142.72E 0 3.9,3.8
JMA III 15 22 07 05.0–.20 37.18N 142.56E 23 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.0km az=177.7.
IDC Error ellipse: s-maj=29.1km s-min=22.9km az=81.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 15 22 11 23.2–1.3 36.4N–.20 143.8E–.20 35 3.5b 8 4-63
IDC III 15 22 11 17.8–1.1 36.45N 143.86E 0 3.6,3.5 **¶603049831**
ISCJB III 15 22 11 20.7–1.0 36.4N–.10 143.8E–.20 33 3.5b,3.5

ISC Event type ke.
ISCJB Event type ke.
ISC III 15 22 15 12.5–.55 37.41N–.06 143.63E–.06 35 4.3b 68 2-145
IDC III 15 22 15 07.5–.69 37.42N 143.75E 0 4.1,4.0 **¶16478385**
ISCJB III 15 22 15 10.4–.34 37.34N–.04 143.60E–.04 33 4.3b,4.0
JMA III 15 22 15 11.6–.30 37.49N 143.45E 48 4.3,4.0
NEIC III 15 22 15 12.5–.28 37.34N 143.73E 35 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.2km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.2km az=154.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.6km az=119.0.
ISC III 15 22 22 12.7–.87 37.27N–.09 143.90E–.09 35 3.5b 15 5-76
IDC III 15 22 22 07.9–.86 37.38N 144.05E 0 3.8,3.8L **¶603049842**
ISCJB III 15 22 22 10.8–.73 37.36N–.09 143.82E–.09 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 22 37 15.3–.51 37.49N–.04 144.26E–.04 19–1 5.3b,4.9s 1025 3-159
IDC III 15 22 37 11.4–.42 37.31N 144.27E 0 4.8,4.8 **¶16320510**
ISCJB III 15 22 37 12.6–.82 37.51N–.02 144.19E–.02 8–5 5.2b,4.8s
NEIC III 15 22 37 13.9–.13 37.37N 144.14E 10 5.4b,4.8s
GCMT III 15 22 37 13.9–.20 37.42N 144.26E 12 5.2W,4.8s
MOS III 15 22 37 15.1–.88 37.61N 144.11E 22 5.4b,5.1s
JMA III 15 22 37 15.9–.50 37.43N 144.05E 50 5.2,5.1s
BJI III 15 22 37 16.1 37.67N 143.99E 25 5.2b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=11.0km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.2km az=173.7.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.7km az=164.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c89; s112,c205; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.74±.01 $M_{\theta\theta}$0.40±.01; $M_{\phi\phi}$0.34±.01; $M_{r\theta}$0.02±.04; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$0.23±.04; Best double couple: NP1:ϕ_s216.00000°,δ52.00000°,λ-105.00000°. NP2:ϕ_s59.00000°,δ40.00000°,λ-72.00000°. Principal axes: T 0.8020,Plg6.0000°,Azm316.0000°; N -0.0080,Plg12.0000°,Azm225.0000°; P -0.7940,Plg77.0000°,Azm74.0000° $M_0$0.79800×10^{17}
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=109.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 15 22 43 52.0–.94 37.7N–.20 143.0E–.10 24 3.6b 12 4-89
IDC III 15 22 43 48.4–.94 37.67N 143.06E 0 3.9,3.7 **¶17196280**
ISCJB III 15 22 43 50.0–.74 37.6N–.10 143.0E–.20 24 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 22 55 31.0–.81 37.3N–.10 142.8E–.10 24 3.8b 11 4-89
IDC III 15 22 55 27.6–.80 37.29N 142.93E 0 3.9,3.7 **¶17196282**
ISCJB III 15 22 55 29.2–.66 37.2N–.10 142.8E–.10 24 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 22 57 22.8–.72 35.91N–.09 143.26E–.09 35 3.7b 19 4-146
IDC III 15 22 57 17.8–.69 35.99N 143.48E 0 4.0,4.0L **¶17196283**
ISCJB III 15 22 57 20.8–.61 35.83N–.08 143.24E–.08 33 3.7b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 23 06 56.9–.46 38.76N–.04 144.32E–.06 29 4.3b 82 2-145
NIED III 15 23 06 00 38.80N 144.20E 5 4.2W **¶16478395**
IDC III 15 23 06 52.5–.66 38.58N 144.27E 0 4.2,4.0
ISCJB III 15 23 06 55.5–.33 38.81N–.03 144.19E–.04 29 4.4b,4.0
JMA III 15 23 06 56.7–.50 38.82N 144.21E 50 4.2,4.0
NEIC III 15 23 06 57.9–.28 38.67N 144.33E 35 4.8b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ29.00000°,λ-96.00000°. NP2:ϕ_s196.00000°,δ61.00000°,λ-87.00000°. $M_0$1.96000×10^{15}
IDC Error ellipse: s-maj=18.2km s-min=15.5km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=4.1km az=24.9.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.8km az=190.0.
ISC III 15 23 10 15.5–1.0 37.28N–.05 142.64E–.09 21 3.9b 27 1-79
IDC III 15 23 10 11.9–1.5 37.38N 142.88E 0 3.9,3.9 **¶17196285**
ISCJB III 15 23 10 14.2–.72 37.31N–.05 142.64E–.06 21 3.8b,3.9
JMA III 15 23 10 16.4–.30 37.29N 142.45E 18 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=44.6km s-min=19.5km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.6km az=137.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 15 23 13 08.3–1.1 38.10N–.09 144.0E–.10 35 3.8b 12 5-75
IDC III 15 23 13 03.2–1.0 38.21N 144.11E 0 3.9,3.8 **¶603049833**
ISCJB III 15 23 13 06.3–.88 38.09N–.07 143.9E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 23 15 26.3–1.0 38.01N 144.04E 0 3.8,3.6b
¶17196287
IDC Error ellipse: s-maj=36.0km s-min=23.6km az=117.0.
ISC III 15 23 23 29.8–.55 36.89N–.05 142.65E–.06 9 4.7b 60 1-89
ISCJB III 15 23 23 27.8–.30 36.86N–.03 142.68E–.04 9 4.6b **¶602661406**
IDC III 15 23 23 28.1–.69 36.85N 142.66E 0 4.3,4.1
JMA III 15 23 23 29.9–.40 36.99N 142.62E 21 4.1,4.1
NEIC III 15 23 23 30.8–3.5 36.90N 142.70E 16–22 4.8b,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=151.3.
IDC Error ellipse: s-maj=18.4km s-min=14.9km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.5km az=121.0.
ISC III 15 23 26 17.9–1.2 36.99N–.09 142.66E–.10 9 3.7b 17 2-57
NIED III 15 23 26 00 37.00N 142.60E 5 4.1W **¶602661402**
IDC III 15 23 26 16.5–1.5 36.98N 142.65E 0 3.8,3.7b
ISCJB III 15 23 26 16.1–.97 36.93N–.08 142.71E–.08 9 3.7b,3.7b
JMA III 15 23 26 18.1–.40 37.02N 142.58E 12 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ21.00000°,λ-96.00000°. NP2:ϕ_s226.00000°,δ69.00000°,λ-88.00000°. $M_0$1.36000×10^{15}
IDC Error ellipse: s-maj=31.3km s-min=31.0km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.4km az=169.9.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC III 15 23 26 45.5–.78 36.28N–.06 143.25E–.07 29 3.9b 24 2-146
IDC III 15 23 26 36.9–.70 35.08N 143.52E 0 4.1,3.9 **¶17196290**
ISCJB III 15 23 26 43.8–.66 36.27N–.05 143.19E–.05 29 3.9b,3.9
JMA III 15 23 26 46.1–.20 36.26N 143.11E 65 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=20.5km s-min=18.4km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.5km az=161.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 15 23 36 27.1–5.2 38.02N–.05 143.63E–.06 36–37 3.7b 37 2-88
NIED III 15 23 36 00 38.10N 143.50E 8 4.0W **¶17196291**
IDC III 15 23 36 21.1–.75 38.02N 143.61E 0 4.0,3.9
JMA III 15 23 36 24.5–.50 38.06N 143.49E 35 4.4,3.9
ISCJB III 15 23 36 24.6–1.1 38.03N–.04 143.52E–.07 36–10 3.8b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ50.00000°,λ-56.00000°. NP2:ϕ_s0.00000°,δ51.00000°,λ-123.00000°. $M_0$9.67000×10^{14}
ISCJB Event type ke.
ISC III 15 23 38 02.7–.73 37.04N–.09 144.0E–.10 35 3.7b 18 5-145
IDC III 15 23 37 57.9–.78 37.13N 144.07E 0 4.0,4.0L **¶17196292**
ISCJB III 15 23 38 00.7–.63 37.00N–.08 143.9E–.10 33 3.7b,4.0L
ISC Event type ke.
ISCJB Event type ke.
JMA III 15 23 38 22.3–.50 39.82N 143.15E 0 3.6
¶602660863
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISC III 15 23 52 51.8–.61 38.92N–.06 144.21E–.06 23 4.1b 65 2-87
IDC III 15 23 52 47.6–.72 38.74N 144.29E 0 4.1,4.0 **¶602660831**
ISCJB III 15 23 52 49.7–.39 38.88N–.04 144.19E–.04 23 4.1b,4.0
JMA III 15 23 52 51.7–.40 38.96N 144.12E 42 4.3,4.0
NEIC III 15 23 52 52.7–.28 38.76N 144.25E 35 4.7b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=16.4km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=156.3.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.6km az=99.0.
ISC III 15 23 56 04.2–1.7 38.4N–.20 143.3E–.20 15 3.8b 7 4-68
IDC III 15 23 56 01.5–1.8 38.41N 143.45E 0 4.0,3.9b **¶17196295**
ISCJB III 15 23 56 01.9–1.3 38.3N–.10 143.4E–.20 15 3.8b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 00 02 09.8–1.1 38.2N–.20 144.6E–.20 35 3.8b 9 5-62
IDC III 16 00 02 04.7–.96 38.23N 144.72E 0 3.9,3.9L **¶17196297**
ISCJB III 16 00 02 07.4–.87 38.2N–.10 144.7E–.20 33 3.7b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 00 05 36.1–1.3 39.2N–.20 144.8E–.20 35 3.6b 8 11-74
IDC III 16 00 05 30.7–1.2 39.12N 144.96E 0 3.9,3.8 **¶17196298**
ISCJB III 16 00 05 33.6–1.2 39.1N–.20 144.9E–.30 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 00 12 33.0–.96 38.31N–.08 143.11E–.09 23 3.9b 22 2-74
ISCJB III 16 00 12 30.9–.69 38.28N–.06 143.19E–.07 23 4.3s,3.9b **¶17196299**
JMA III 16 00 12 31.7–.30 38.38N 142.95E 0 4.2,3.9b
IDC III 16 00 12 35.8–3.6 38.33N 143.07E 46–33 4.3,4.3s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.4km az=25.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=29.2km s-min=17.0km az=90.0.
ISC III 16 00 22 04.1–.61 37.19N–.08 143.45E–.09 35 4.4b 52 5-145
IDC III 16 00 21 59.1–.62 37.20N 143.55E 0 4.4,4.3 **¶16322663**
ISCJB III 16 00 22 02.1–.43 37.15N–.06 143.41E–.08 33 4.3b,4.3
NEIC III 16 00 22 04.5–.37 37.27N 143.52E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=14.1km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.9km az=30.1.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.7km az=155.0.
JMA III 16 00 57 58.5–.40 39.38N 143.02E 5 3.5
¶602665472
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 16 01 01 39.9–2.8 37.49N 144.78E 0 3.7,3.6b
¶17196305
IDC Error ellipse: s-maj=74.5km s-min=29.5km az=64.0.
ISC III 16 01 03 18.7–.81 36.04N–.05 143.42E–.05 26–5 4.5b,3.5s 135 2-153
NIED III 16 01 03 00 36.10N 143.30E 5 4.3W,3.5s **¶16327715**
ISCJB III 16 01 03 16.3–1.2 36.07N–.03 143.32E–.03 17–8 4.3b,3.5s
JMA III 16 01 03 18.1–.30 36.10N 143.33E 71 4.3,3.5s
NEIC III 16 01 03 19.0–2.0 36.07N 143.40E 26–14 4.5b,3.5s
IDC III 16 01 03 19.1–6.4 35.99N 143.48E 28–43 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ27.00000°,λ-88.00000°. NP2:ϕ_s207.00000°,δ63.00000°,λ-91.00000°. $M_0$3.04000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.9km az=167.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=6.0km az=143.0.
IDC Error ellipse: s-maj=16.2km s-min=14.9km az=119.0.
ISC III 16 01 29 01.9–.60 37.94N–.06 144.45E–.06 35 4.2b,3.6s 53 3-92
IDC III 16 01 28 56.4–.72 37.82N 144.64E 0 4.1,4.0 **¶16424535**
NEIC III 16 01 28 59.9–2.9 37.79N 144.53E 24–19 4.4b,4.0
ISCJB III 16 01 28 59.7–.41 37.86N–.05 144.37E–.04 33 4.1b,3.5s
JMA III 16 01 29 00.3–.60 37.94N 144.32E 44 4.5,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=15.9km az=120.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.9km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.7km az=174.3.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
IDC III 16 01 34 05.0–1.6 36.59N 144.46E 0 3.8L,3.7
¶17196309
IDC Error ellipse: s-maj=34.8km s-min=32.9km az=77.0.
ISC III 16 01 51 45.2–.87 39.18N–.07 144.73E–.08 19 3.7b 26 3-87
IDC III 16 01 51 41.8–.95 38.93N 144.90E 0 3.9,3.7 **¶17196315**
ISCJB III 16 01 51 45.0–.79 39.32N–.05 144.64E–.07 19 3.6b,3.7
JMA III 16 01 51 46.2–.50 39.28N 144.53E 24 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=22.2km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=7.3km az=6.6.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISC III 16 01 55 08.6–.49 37.55N–.04 143.12E–.04 26–3 4.9b,4.2s 789 2-160
IDC III 16 01 55 04.5–.44 37.49N 143.16E 0 4.8,4.8 **¶16320516**
JMA III 16 01 55 06.3–.50 37.46N 142.99E 16 4.9,4.8
BJI III 16 01 55 07.7 37.50N 143.00E 29 5.1b,4.7b
ISCJB III 16 01 55 07.4–.11 37.46N–.03 143.07E–.02 27 4.8b,4.2s
NEIC III 16 01 55 08.2–1.2 37.50N 143.03E 21–8 4.9b,4.2s
MOS III 16 01 55 09.0–.84 37.67N 143.00E 33 5.1b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=10.5km az=120.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=163.3.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=133.0.
MOS Error ellipse: s-maj=7.3km s-min=4.8km az=106.7.
ISC III 16 02 00 56.9–.65 38.97N–.06 144.32E–.07 19 4.0b 49 2-149
IDC III 16 02 00 53.5–.81 38.79N 144.27E 0 4.0,3.9 **¶16424539**
NEIC III 16 02 00 55.5–3.2 38.72N 144.13E 13–20 4.3b,3.9
ISCJB III 16 02 00 55.7–.55 38.96N–.05 144.27E–.06 19 4.0b,3.9
JMA III 16 02 00 57.4–.40 38.97N 144.30E 48 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.7km s-min=19.3km az=68.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.5km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.2km az=28.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 16 02 13 22.0–.80 36.81N 142.19E 13 3.1
¶603049838
JMA Error ellipse: s-maj=2.2km s-min=6.2km az=-1.0.
IDC III 16 02 13 44.5–2.5 36.63N 144.01E 0 3.9,3.8
¶17196317
IDC Error ellipse: s-maj=74.3km s-min=26.0km az=63.0.
JMA III 16 02 26 57.4–.40 39.91N 143.33E 5 3.7
¶602666251
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISC III 16 02 34 46.4–.56 36.29N–.06 142.43E–.06 15 4.2b 54 1-146
NIED III 16 02 34 00 36.30N 142.30E 5 4.2W **¶16424541**
IDC III 16 02 34 43.9–.68 36.28N 142.58E 0 4.1,4.0
ISCJB III 16 02 34 44.6–.43 36.29N–.05 142.48E–.05 15 4.2b,4.0
JMA III 16 02 34 48.0–.30 36.32N 142.32E 58 4.3,4.0
NEIC III 16 02 34 49.0–.45 36.29N 142.46E 35 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ63.00000°,λ17.00000°. NP2:ϕ_s325.00000°,δ75.00000°,λ152.00000°. $M_0$2.07000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=16.4km az=2.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=158.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=9.9km az=112.0.
ISC III 16 02 34 58.8–1.2 39.4N–.20 143.2E–.40 18 4.0b 7 21-73
IDC III 16 02 34 55.9–1.4 39.36N 143.15E 0 4.1,4.0 **¶17196320**
ISCJB III 16 02 34 56.6–1.1 39.3N–.20 143.2E–.40 18 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 02 36 37.9–.55 36.41N–.07 143.22E–.08 29 4.2b 48 4-146
IDC III 16 02 36 33.9–.66 36.43N 143.19E 0 6.2L,4.3 **¶16424542**
NEIC III 16 02 36 34.9–2.9 36.44N 143.27E 7–17 4.5b,4.3

ISCJB III 16 02 36 36.0–.38 36.33N–.06 143.23E–.07 29 4.2b,4.3
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 16 02 41 41.6–.90 37.33N–.07 142.35E–.08 21 3.6b 17 1-146
IDC III 16 02 41 38.0–.93 37.22N 142.40E 0 3.8,3.6 **¶17196321**
ISCJB III 16 02 41 39.4–.77 37.28N–.06 142.50E–.07 21 3.5b,3.6
JMA III 16 02 41 40.4–.30 37.36N 142.30E 5–3 4.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=23.2km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=8.1km az=29.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 02 42 33.4–1.3 39.6N–.20 143.5E–.20 11 3.8b 7 10-60
IDC III 16 02 42 31.7–1.3 39.55N 143.50E 0 3.9,3.7 **¶17196322**
ISCJB III 16 02 42 31.2–1.2 39.5N–.10 143.6E–.20 11 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 02 45 35.9–.97 39.0N–.20 144.3E–.20 23 3.6b 9 5-75
IDC III 16 02 45 32.2–.97 38.98N 144.29E 0 3.8,3.6L **¶17196323**
ISCJB III 16 02 45 34.0–.83 39.0N–.20 144.4E–.20 23 3.5s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 02 47 12.5–.47 37.63N–.04 142.62E–.04 20–6 4.7b,3.8s 233 2-154
NIED III 16 02 47 00 37.70N 142.50E 20 4.5W,3.8s **¶600549336**
IDC III 16 02 47 09.4–.46 37.62N 142.54E 0 4.6,4.6
ISCJB III 16 02 47 10.5–1.0 37.62N–.03 142.62E–.03 18–7 4.7b,3.6s
JMA III 16 02 47 10.4–.30 37.66N 142.51E 4 4.7,3.6s
NEIC III 16 02 47 12.8–1.2 37.68N 142.54E 21–8 4.8b,3.6s
MOS III 16 02 47 13.2–.91 37.70N 142.58E 34 4.9b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ45.00000°,λ-51.00000°. NP2:ϕ_s32.00000°,δ57.00000°,λ-122.00000°. $M_0$7.34000×10^{15}
IDC Error ellipse: s-maj=13.6km s-min=12.2km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.0km az=161.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=122.0.
MOS Error ellipse: s-maj=7.9km s-min=5.3km az=99.1.
JMA III 16 03 07 20.8–.30 37.52N 142.01E 32–5 3.7 ¶602666190
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 03 15 06.3–1.0 38.0N–.10 143.7E–.20 19 3.6b 8 5-62
IDC III 16 03 15 03.5–1.0 38.02N 143.69E 0 3.8,3.8L **¶17196328**
ISCJB III 16 03 15 04.1–.90 37.9N–.10 143.7E–.20 19 3.5b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 03 18 19.2–.84 37.37N–.09 143.6E–.10 35 3.6b 15 4-76
IDC III 16 03 18 14.3–.83 37.48N 143.74E 0 3.9,3.8L **¶17196329**
ISCJB III 16 03 18 17.2–.70 37.43N–.09 143.7E–.10 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 03 59 50.2–3.5 39.71N–.07 143.65E–.07 11–22 4.0b 39 2-81
JMA III 16 03 59 48.6–.30 39.82N 143.59E 0 4.5 **¶16424544**
IDC III 16 03 59 48.2–.95 39.70N 143.78E 0 4.1,4.0
ISCJB III 16 03 59 49.7–2.0 39.69N–.05 143.73E–.06 21–14 3.9b,4.0
NEIC III 16 03 59 54.2–.96 39.65N 143.65E 40–7 4.2b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=20.4km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=7.5km az=34.4.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.9km az=111.0.
ISC III 16 04 05 11.8–1.1 37.98N–.07 142.53E–.09 14 4.0b 24 2-74
IDC III 16 04 05 09.2–1.4 38.01N 142.68E 0 4.2b,4.1 **¶602666105**
ISCJB III 16 04 05 09.3–.81 37.89N–.06 142.72E–.08 14 4.0b,3.0s
JMA III 16 04 05 09.4–.40 37.95N 142.53E 0 4.5,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=24.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.2km az=152.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 16 04 23 18.3–.84 36.98N–.06 142.07E–.07 19 3.9b 24 1-146
IDC III 16 04 23 15.3–1.1 37.03N 142.17E 0 4.0,3.9b **¶600549475**
ISCJB III 16 04 23 16.5–.71 36.97N–.06 142.20E–.06 19 3.8b,3.9b
JMA III 16 04 23 20.2–.30 37.09N 141.99E 30–4 4.1,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=23.0km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.9km az=174.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 16 04 36 33.6–1.1 38.6N–.10 144.4E–.10 29 3.8b 12 5-118
IDC III 16 04 36 29.2–1.1 38.56N 144.39E 0 4.0,3.9 **¶17196334**
ISCJB III 16 04 36 31.9–1.1 38.6N–.10 144.3E–.20 29 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 04 37 44.3–1.4 37.4N–.20 142.39E–.09 21 3.6b 11 2-89
IDC III 16 04 37 37.1–1.1 36.58N 142.48E 0 3.9,3.7 **¶602665348**
ISCJB III 16 04 37 42.0–1.3 37.2N–.20 142.56E–.10 21 3.6b,3.7
JMA III 16 04 37 43.3–.30 37.21N 142.55E 58 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=29.5km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=30.1km s-min=9.0km az=13.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 16 04 38 50.2–1.9 36.60N–.04 142.09E–.06 5–11 4.2b 49 1-146
NIED III 16 04 38 00 36.70N 142.10E 11 4.3W **¶600549500**
IDC III 16 04 38 49.4–.58 36.58N 142.14E 0 4.2,4.2L
JMA III 16 04 38 51.7–.30 36.66N 142.12E 33 4.4,4.2L
NEIC III 16 04 38 54.7–.41 36.61N 142.17E 35 4.6b,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ58.00000°,λ-169.00000°. NP2:ϕ_s200.00000°,δ81.00000°,λ-33.00000°. $M_0$2.82000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=13.2km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.9km az=141.0.
ISC III 16 04 45 00.7–.40 36.98N–.05 143.26E–.04 35 4.7b,4.5s 278 2-153
NIED III 16 04 44 00 36.90N 143.20E 5 4.5W,4.5s **¶16320523**
IDC III 16 04 44 54.9–.51 36.83N 143.34E 0 4.6,4.5
BJI III 16 04 44 56.8 37.19N 143.11E 10 5.3b,4.7b
NEIC III 16 04 44 57.3–2.5 36.96N 143.22E 9–15 4.9b,4.7b
JMA III 16 04 44 58.7–.30 36.94N 143.18E 46 4.7,4.7b
ISCJB III 16 04 45 00.2–.20 37.10N–.03 143.15E–.02 35 4.7b,4.5s
MOS III 16 04 45 00.4–.87 37.25N 143.18E 32 5.0b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ23.00000°,λ-84.00000°. NP2:ϕ_s180.00000°,δ68.00000°,λ-93.00000°. $M_0$6.85000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=13.4km az=130.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.0km az=145.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=170.9.
MOS Error ellipse: s-maj=7.8km s-min=5.5km az=92.6.
ISC III 16 05 01 07.4–.57 37.08N–.04 142.56E–.06 9 4.1b 52 1-146
NIED III 16 05 01 00 37.10N 142.70E 14 4.5W **¶16478462**
ISCJB III 16 05 01 05.9–.41 37.09N–.03 142.64E–.04 9 4.1b,4.1s
IDC III 16 05 01 05.9–.62 37.04N 142.66E 0 4.2,4.1L
JMA III 16 05 01 06.3–.30 37.10N 142.71E 26 4.6,4.1L
NEIC III 16 05 01 12.1–.97 36.99N 142.64E 46–8 4.4b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ39.00000°,λ-47.00000°. NP2:ϕ_s333.00000°,δ63.00000°,λ-119.00000°. $M_0$7.28000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.3km az=31.7.
IDC Error ellipse: s-maj=18.4km s-min=14.9km az=132.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.5km az=116.0.
ISC III 16 05 09 34.4–.69 37.51N–.07 142.03E–.06 24 3.9b 30 1-146
IDC III 16 05 09 30.9–.71 37.54N 142.09E 0 4.1,3.9 **¶16461832**
ISCJB III 16 05 09 32.1–.50 37.45N–.05 142.15E–.05 24 3.9b,3.9
JMA III 16 05 09 35.5–.10 37.60N 141.93E 14–3 4.2,3.9
NEIC III 16 05 09 35.7–.38 37.48N 142.01E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=17.5km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=168.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.2km az=121.0.
ISC III 16 05 16 25.9–4.5 37.93N–.07 142.64E–.06 17–28 3.9b 41 2-145
IDC III 16 05 16 23.3–.71 37.91N 142.61E 0 4.1,4.0 **¶16478467**
ISCJB III 16 05 16 24.3–1.9 37.87N–.04 142.69E–.05 21–14 3.9b,4.0
NEIC III 16 05 16 26.6–2.2 37.92N 142.58E 21–15 4.0b,4.0
JMA III 16 05 16 26.4–.40 38.01N 142.54E 10–5 4.6,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=15.9km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=6.9km az=7.7.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.3km az=126.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 05 23 34.7–.45 37.31N–.05 144.20E–.05 35 4.6b,3.7s 177 3-153
IDC III 16 05 23 29.0–.51 37.22N 144.31E 0 4.6,4.4 **¶16320526**
NEIC III 16 05 23 31.8–2.6 37.26N 144.25E 16–16 4.8b,4.4
JMA III 16 05 23 33.3–.40 37.33N 144.05E 54 4.8,4.4
MOS III 16 05 23 33.6–.97 37.45N 144.16E 33 4.9b,4.4
ISCJB III 16 05 23 33.2–.26 37.32N–.04 144.10E–.03 33 4.5b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 16 05 25 09.2–1.4 37.07N 143.60E 0 4.1,3.9 ¶17196343
IDC Error ellipse: s-maj=52.5km s-min=30.1km az=96.0.
ISC III 16 05 29 11.1–.96 39.50N–.07 143.58E–.06 11 3.6b 31 2-61
ISCJB III 16 05 29 08.4–.78 39.50N–.05 143.65E–.06 11 3.5b **¶17196344**
JMA III 16 05 29 09.3–.40 39.47N 143.64E 22 4.1
IDC III 16 05 29 11.8–1.3 39.22N 143.66E 29–6 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.7km az=42.2.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=27.8km s-min=18.9km az=149.0.
IDC III 16 05 30 35.9–1.2 36.74N 143.53E 0 3.9,3.7 ¶17196345
IDC Error ellipse: s-maj=31.9km s-min=24.7km az=83.0.
ISC III 16 05 35 07.5–.72 36.26N–.10 142.48E–.07 18 3.9b 23 1-146
IDC III 16 05 35 04.5–.75 36.19N 142.55E 0 4.1,4.0s **¶600549615**
ISCJB III 16 05 35 05.8–.57 36.25N–.08 142.52E–.05 18 4.6s,3.9b
JMA III 16 05 35 06.9–.20 36.33N 142.54E 51 3.7,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=18.4km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.9km az=170.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 16 05 44 23.2–.30 38.06N 143.32E 43 3.9 ¶602664891
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 05 53 46.5–.93 37.4N–.10 142.63E–.07 21 3.6b 15 1-89
IDC III 16 05 53 43.1–1.1 37.33N 142.73E 0 3.8,3.6 **¶602664846**
ISCJB III 16 05 53 44.6–.83 37.4N–.10 142.80E–.07 21 3.5b,3.6
JMA III 16 05 53 45.1–.40 37.42N 142.66E 9 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=25.2km az=150.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=8.4km az=4.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC III 16 06 12 47.1–1.3 36.48N 143.28E 0 3.8,3.6b ¶17196352
IDC Error ellipse: s-maj=40.6km s-min=29.8km az=108.0.
ISC III 16 06 15 21.8–.46 39.27N–.05 144.55E–.05 23 4.6b 79 3-153
IDC III 16 06 15 18.2–.54 39.09N 144.66E 0 4.5,4.3 **¶17196353**
ISCJB III 16 06 15 21.6–.28 39.35N–.03 144.43E–.03 23 4.5b,4.3
JMA III 16 06 15 22.1–.30 39.34N 144.45E 42 4.7,4.3
NEIC III 16 06 15 22.1–1.7 39.11N 144.52E 22–12 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.7km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.4km az=172.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=137.0.
ISC III 16 06 28 02.1–1.2 37.5N–.10 142.69E–.10 21 3.3b 11 2-58
IDC III 16 06 27 58.6–1.4 37.46N 142.81E 0 4.1,4.1s **¶602664794**
ISCJB III 16 06 27 59.8–1.0 37.5N–.10 142.81E–.09 21 4.1s,3.4b
JMA III 16 06 27 59.0–.50 37.55N 142.63E 0 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=30.1km s-min=28.4km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=10.7km az=176.3.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 16 06 34 59.1–.75 37.44N–.07 142.68E–.07 21 4.1b 21 2-89
IDC III 16 06 34 55.9–.77 37.53N 142.77E 0 4.2,4.0 **¶602664788**
JMA III 16 06 34 56.6–.30 37.45N 142.67E 0 4.5,4.0
ISCJB III 16 06 34 57.0–.61 37.36N–.06 142.83E–.06 21 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 06 44 16.9–1.3 37.1N–.20 143.0E–.20 25 3.6b 9 4-69
IDC III 16 06 44 13.1–1.4 37.21N 143.11E 0 3.8,3.8b **¶603049848**
ISCJB III 16 06 44 14.7–1.2 37.1N–.10 143.0E–.20 25 3.7b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 06 45 50.8–1.3 37.39N–.07 143.5E–.10 35 3.7b 27 2-61
IDC III 16 06 45 44.4–1.1 37.54N 143.84E 0 4.0,4.0L **¶17196362**
ISCJB III 16 06 45 48.7–.78 37.44N–.06 143.48E–.06 33 3.8b,4.0L
JMA III 16 06 45 48.9–.40 37.49N 143.21E 7 4.2,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=18.6km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.9km az=157.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 16 06 48 18.2–.99 37.3N–.10 144.09E–.09 35 3.7b 15 5-88
IDC III 16 06 48 12.8–.91 37.26N 144.12E 0 4.1,4.1s **¶17196363**
ISCJB III 16 06 48 16.1–.77 37.2N–.10 144.06E–.08 33 4.1s,3.8b
ISC Event type ke.
ISCJB Event type ke.
IDC III 16 06 51 19.0–3.1 38.09N 143.88E 0 3.9,3.6 ¶17196364
IDC Error ellipse: s-maj=83.6km s-min=51.9km az=16.0.
ISC III 16 06 55 00.7–.40 36.58N–.05 143.15E–.04 29 4.8b 302 2-157
IDC III 16 06 54 55.6–.43 36.42N 143.18E 0 4.7,4.7 **¶17196365**
NEIC III 16 06 54 59.1–2.0 36.41N 143.16E 20–12 4.9b,4.7
ISCJB III 16 06 54 59.3–.21 36.50N–.04 143.04E–.02 29 4.7b,4.0s
JMA III 16 06 55 00.1–.20 36.47N 142.98E 52 4.8,4.0s
NIED III 16 06 55 00 36.50N 143.00E 5 4.5W,4.0s
MOS III 16 06 55 01.7–.88 36.94N 143.04E 31 5.0b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=11.1km az=144.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.5km az=164.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ39.00000°,λ-88.00000°. NP2:ϕ_s222.00000°,δ51.00000°,λ-91.00000°. $M_0$6.99000×10^{15}
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=103.4.
ISC III 16 07 00 05.9–.94 36.4N–.20 143.1E–.10 29 3.8b 11 4-146
IDC III 16 07 00 01.7–.87 36.38N 143.18E 0 4.0,3.8 **¶603049855**
ISCJB III 16 07 00 04.0–.77 36.3N–.10 143.1E–.10 29 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 07 06 11.0–.59 37.97N–.05 144.02E–.05 29–3 4.5b 208 3-153
IDC III 16 07 06 05.7–.52 37.84N 144.08E 0 4.5,4.4 **¶602664752**
NEIC III 16 07 06 08.4–2.3 37.83N 144.02E 13–14 4.8b,4.4

JMA III 16 07 06 08.6–.40 37.92N 144.01E 53 4.5,4.4
MOS III 16 07 06 09.7–1.3 37.95N 143.97E 33 4.8b,4.4
ISCJB III 16 07 06 10.5–.25 38.03N–.03 143.87E–.03 33 4.5b,4.4
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 16 07 11 58.9–1.6 37.25N–.09 142.3E–.10 35 3.5b 15 1-57
IDC III 16 07 11 53.0–2.6 37.19N 142.55E 0 3.6,3.6b **¶600549805**
JMA III 16 07 11 55.3–.30 37.30N 142.16E 5–3 3.7,3.6b
ISCJB III 16 07 11 56.7–1.1 37.22N–.09 142.3E–.10 35 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 07 18 02.7–.59 38.54N–.07 144.06E–.08 14 4.2b 46 2-118
JMA III 16 07 17 56.2–.10 38.47N 142.27E 20–2 4.3 **¶16478499**
IDC III 16 07 18 00.8–.63 38.56N 144.05E 0 4.2,4.1L
ISCJB III 16 07 18 01.1–.43 38.58N–.05 144.04E–.07 14 4.1b,4.1L
NEIC III 16 07 18 06.1–.32 38.62N 143.99E 35 4.3b,4.1L
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=14.3km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=5.9km az=33.1.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=109.0.
ISC III 16 07 21 44.9–1.1 39.4N–.10 144.7E–.10 23 3.9b 9 6-68
IDC III 16 07 21 41.4–1.0 39.41N 144.73E 0 3.9,3.7 **¶17196370**
ISCJB III 16 07 21 43.0–.92 39.4N–.10 144.6E–.20 23 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 07 22 17.8–.94 38.5N–.10 144.8E–.10 43 3.7b 12 6-87
IDC III 16 07 22 11.5–.79 38.50N 144.77E 0 4.0,3.8 **¶17196373**
ISCJB III 16 07 22 15.5–.67 38.5N–.10 144.6E–.10 43 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 07 27 13.9–1.1 36.3N–.10 143.9E–.10 35 3.5b 8 5-89
IDC III 16 07 27 08.9–1.2 36.34N 144.07E 0 3.9,3.7 **¶17196374**
ISCJB III 16 07 27 11.9–.99 36.28N–.10 143.9E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 07 29 48.3–.90 38.0N–.20 143.7E–.20 35 3.5b 9 5-88
IDC III 16 07 29 43.1–.90 37.88N 143.85E 0 3.9,3.6 **¶17196375**
ISCJB III 16 07 29 45.6–.79 37.9N–.10 143.8E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 07 29 54.2–.86 36.7N–.10 143.2E–.20 25 3.7b 11 5-146
IDC III 16 07 29 50.9–1.3 36.75N 143.21E 0 4.0,3.9L **¶17196378**
ISCJB III 16 07 29 52.3–.81 36.7N–.10 143.2E–.20 25 3.6b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 08 04 23.8–.77 37.87N–.07 144.47E–.07 35 3.7b 28 3-88
IDC III 16 08 04 18.1–.81 37.67N 144.58E 0 4.0,3.8 **¶17196393**
ISCJB III 16 08 04 21.9–.60 37.86N–.06 144.41E–.05 33 3.7b,3.8
JMA III 16 08 04 23.2–.30 37.80N 144.27E 50 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=22.8km s-min=18.5km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.6km az=178.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 16 08 06 55.2–1.1 36.49N 143.06E 0 3.9,3.6
¶17196394
IDC Error ellipse: s-maj=49.0km s-min=24.5km az=102.0.
ISC III 16 08 17 09.2–.41 37.33N–.04 143.65E–.04 27–2 5.0b,4.3s 462 3-153
NIED III 16 08 17 00 37.20N 143.50E 5 4.8W,4.3s **¶602665676**
IDC III 16 08 17 05.0–.45 37.24N 143.68E 0 4.9,4.9
BJI III 16 08 17 07.7 37.44N 143.45E 18 5.1b,4.9b
ISCJB III 16 08 17 09.2–.16 37.35N–.03 143.51E–.02 33 4.9b,4.3s
JMA III 16 08 17 09.1–.40 37.15N 143.48E 50 5.1,4.3s
MOS III 16 08 17 10.0–.96 37.75N 143.47E 26 5.2b,4.1s
NEIC III 16 08 17 10.8–.11 37.28N 143.54E 35 5.0b,4.1s
GCMT III 16 08 17 10.8–.60 37.37N 143.70E 23–1 4.9W,4.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ25.00000°,λ-84.00000°. NP2:ϕ_s196.00000°,δ65.00000°,λ-93.00000°. $M_0$1.55000×10^{16}
IDC Error ellipse: s-maj=12.6km s-min=11.0km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.4km az=161.5.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=104.9.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=148.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c12; s73,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.74±.40 $M_{\theta\theta}$-0.01±.23; $M_{\phi\phi}$2.76±.25; $M_{r\theta}$-1.16±.34; $M_{\theta\phi}$0.97±.10; $M_{\phi r}$-0.21±.26; Best double couple: NP1:ϕ_s37.00000°,δ54.00000°,λ-65.00000°. NP2:ϕ_s179.00000°,δ43.00000°,λ-120.00000°. Principal axes: T 3.1210,Plg6.0000°,Azm109.0000°; N 0.0550,Plg20.0000°,Azm201.0000°; P -3.1700,Plg69.0000°,Azm4.0000° $M_0$3.14600×10^{16}
IDC III 16 08 25 38.6–1.2 37.46N 142.05E 0 3.8,3.5
¶17196398
IDC Error ellipse: s-maj=38.5km s-min=24.8km az=76.0.
IDC III 16 08 28 46.2–1.0 37.75N 144.39E 0 3.6,3.4
¶17196399
IDC Error ellipse: s-maj=50.3km s-min=20.0km az=114.0.
ISC III 16 08 33 19.6–.79 36.68N–.10 143.18E–.07 29 3.6b 29 2-91
IDC III 16 08 33 15.2–.80 36.67N 143.35E 0 3.9,3.7 **¶17196402**
ISCJB III 16 08 33 17.9–.59 36.67N–.07 143.14E–.05 29 3.6b,3.7
JMA III 16 08 33 19.9–.30 36.74N 143.00E 35 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=17.9km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.1km az=170.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 16 08 37 07.9–.81 37.5N–.10 142.78E–.08 24 3.6b 17 2-89
JMA III 16 08 37 05.7–.30 37.51N 142.64E 0 4.0 **¶602665640**
ISCJB III 16 08 37 05.9–.64 37.4N–.10 142.85E–.07 24 3.5b
IDC III 16 08 37 10.8–4.0 37.45N 142.77E 48–39 3.5,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=7.1km az=167.3.
IDC Error ellipse: s-maj=23.5km s-min=17.9km az=105.0.
ISC III 16 08 38 15.4–.72 38.67N–.06 144.73E–.07 29 3.8b 32 3-118
IDC III 16 08 38 09.8–.73 38.38N 144.90E 0 4.1,3.9 **¶17196406**
JMA III 16 08 38 14.3–.40 38.68N 144.64E 48 4.5,3.9
ISCJB III 16 08 38 14.0–.62 38.70N–.05 144.62E–.05 29 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 08 45 23.1–.60 39.62N 143.71E 9 3.7
¶602665624
JMA Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
ISC III 16 08 57 30.8–1.3 38.64N–.09 143.29E–.09 24 3.5b 15 2-88
JMA III 16 08 57 28.6–.40 38.65N 143.12E 0 3.9 **¶16478538**
ISCJB III 16 08 57 28.8–.93 38.60N–.06 143.34E–.09 24 3.5b
IDC III 16 08 57 30.9–.98 38.15N 142.26E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.6km az=37.3.
IDC Error ellipse: s-maj=33.1km s-min=24.4km az=89.0.
ISC III 16 08 58 24.8–.41 37.10N–.05 142.44E–.05 9 4.6b,4.2s 186 2-146
NIED III 16 08 58 00 37.00N 142.40E 17 4.4W,4.2s **¶17196408**
ISCJB III 16 08 58 23.5–.22 37.11N–.03 142.43E–.03 9 4.5b,4.1s
JMA III 16 08 58 25.0–.20 37.04N 142.45E 23–4 4.5,4.1s
MOS III 16 08 58 28.1–.99 37.45N 142.35E 33 4.8b,4.1s
IDC III 16 08 58 29.4–2.0 36.99N 142.42E 43–18 4.4,4.4
NEIC III 16 08 58 30.9–.66 37.00N 142.36E 56–6 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ16.00000°,λ-71.00000°. NP2:ϕ_s232.00000°,δ74.00000°,λ-95.00000°. $M_0$4.46000×10^{15}

ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=148.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=100.2.
IDC Error ellipse: s-maj=14.3km s-min=10.4km az=95.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=5.1km az=182.0.
ISC III 16 09 09 19.1–.97 37.2N–.10 143.4E–.10 35 3.8b 12 4-89
IDC III 16 09 09 14.0–.92 37.22N 143.63E 0 4.1,4.1s **¶603049850**
ISCJB III 16 09 09 17.1–.82 37.03N–.09 143.4E–.10 33 4.2s,3.8b
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 09 09 49.2–.70 37.26N 142.53E 26 3.5
NIED III 16 09 09 00 37.30N 142.50E 8 3.6W **¶17196411**
JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ59.00000°,λ-22.00000°. NP2:ϕ_s103.00000°,δ71.00000°,λ-147.00000°. $M_0$3.19000×10^{14}
ISC III 16 09 15 06.1–.57 37.15N–.07 143.60E–.08 35 4.4b 60 4-145
IDC III 16 09 15 01.1–.58 37.20N 143.66E 0 4.4,4.4 **¶16478543**
ISCJB III 16 09 15 04.2–.44 37.12N–.06 143.53E–.07 33 4.4b,4.4
NEIC III 16 09 15 06.2–.46 37.19N 143.59E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=13.5km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=9.3km s-min=6.8km az=151.3.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=7.7km az=131.0. Recorded [3 JMA] in Fukushima.
ISC III 16 09 17 25.6–.49 35.98N–.06 142.35E–.06 18 4.4b,4.0s 64 1-151
ISCJB III 16 09 17 23.8–.36 35.96N–.05 142.40E–.05 18 4.4b,3.6s **¶16453153**
JMA III 16 09 17 24.3–.40 36.10N 142.44E 30 4.3,3.6s
NEIC III 16 09 17 27.8–2.3 35.96N 142.37E 34–15 4.7b,3.6s
IDC III 16 09 17 28.5–2.5 35.93N 142.36E 40–22 4.3,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.8km az=147.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.3km az=124.0.
IDC Error ellipse: s-maj=15.2km s-min=12.9km az=109.0.
ISC III 16 09 19 10.3–.65 37.44N–.09 143.91E–.09 35 4.2b 26 5-145
IDC III 16 09 19 05.2–.67 37.51N 144.05E 0 4.3,4.1 **¶16478408**
ISCJB III 16 09 19 08.3–.52 37.50N–.08 143.86E–.08 33 4.2b,4.1
NEIC III 16 09 19 09.9–4.1 37.52N 143.91E 32–28 4.7b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=16.2km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=8.5km az=154.5.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=10.3km az=123.0.
IDC III 16 09 19 47.7–1.9 40.43N 145.73E 0 4.5L,4.1
¶17196415
IDC Error ellipse: s-maj=67.0km s-min=33.0km az=88.0.
ISC III 16 09 33 33.6–1.8 36.75N–.07 143.8E–.10 35 3.5b 25 2-89
JMA III 16 09 33 33.0–.30 36.75N 143.72E 42 3.9 **¶17196417**
IDC III 16 09 33 33.3–1.1 36.07N 143.64E 0 3.8,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=42.5km s-min=22.7km az=110.0.
ISC III 16 09 42 59.9–2.0 36.54N–.07 142.3E–.10 66–20 3.7b 25 1-146
IDC III 16 09 42 51.8–.82 36.22N 143.16E 0 3.9,3.7 **¶17196420**
ISCJB III 16 09 42 59.8–1.2 36.54N–.05 142.2E–.10 83–12 3.5b,3.7
JMA III 16 09 43 02.0–.20 36.58N 142.08E 52 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=19.1km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=8.7km az=11.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 10 01 36.0–.56 36.29N–.04 142.16E–.06 34–1 4.1b 67 1-147
NIED III 16 10 01 00 36.30N 142.00E 17 4.3W **¶602666017**
ISCJB III 16 10 01 32.0–1.8 36.26N–.03 142.22E–.06 20–13 4.2b
JMA III 16 10 01 35.1–.30 36.34N 142.03E 65 4.1
NEIC III 16 10 01 35.7–.45 36.24N 142.24E 35 4.8b
IDC III 16 10 01 35.6–.51 36.21N 142.26E 32–3 4.1,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s325.00000°,δ51.00000°,λ-174.00000°. NP2:ϕ_s232.00000°,δ85.00000°,λ-39.00000°. $M_0$3.00000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.0km az=15.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.0km az=131.0.
IDC Error ellipse: s-maj=12.9km s-min=11.9km az=145.0.
ISC III 16 10 07 55.4–1.1 37.4N–.10 142.8E–.10 24 3.8b 16 2-61
IDC III 16 10 07 51.9–1.1 37.42N 142.80E 0 3.9,3.9b **¶17196425**
ISCJB III 16 10 07 53.3–.87 37.43N–.09 142.77E–.09 24 3.8b,3.9b
JMA III 16 10 07 55.1–.30 37.51N 142.44E 12 4.4,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=19.7km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=9.6km az=155.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 10 09 31.9–.96 37.64N–.06 142.09E–.08 24 3.5b 14 1-63
IDC III 16 10 09 28.5–.96 37.59N 142.54E 0 3.8,3.7 **¶17196426**
ISCJB III 16 10 09 30.6–.75 37.58N–.05 142.22E–.07 24 3.5b,3.7
JMA III 16 10 09 32.8–.20 37.65N 142.09E 34 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=19.3km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=7.4km az=8.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 10 13 37.7–1.1 38.2N–.10 144.2E–.10 35 3.6b 11 5-88
IDC III 16 10 13 32.4–1.0 38.21N 144.34E 0 3.7,3.6 **¶17196427**
ISCJB III 16 10 13 35.8–.90 38.2N–.10 144.1E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 10 16 11.5–.44 39.79N–.04 143.57E–.04 23–2 5.1b,4.9s 478 2-146
NIED III 16 10 16 00 39.90N 143.60E 8 5.1W,4.9s **¶602664677**
IDC III 16 10 16 07.6–.54 39.78N 143.64E 0 4.8,4.7
ISCJB III 16 10 16 07.7–.89 39.82N–.02 143.46E–.03 4–5 5.0b,4.9s
BJI III 16 10 16 10.7 39.72N 143.19E 18 5.2b,5.1b
JMA III 16 10 16 10.9–.20 39.87N 143.60E 36 5.0,5.1b
MOS III 16 10 16 11.5–1.0 39.89N 143.47E 29 5.3b,4.7s
NEIC III 16 10 16 12.5–.36 39.80N 143.43E 25–2 5.1b,4.7s
GCMT III 16 10 16 12.5–.20 39.73N 143.84E 17–1 5.2W,4.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ38.00000°,λ30.00000°. NP2:ϕ_s39.00000°,δ72.00000°,λ124.00000°. $M_0$4.81000×10^{16}
IDC Error ellipse: s-maj=13.7km s-min=12.2km az=131.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=143.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=104.8.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=145.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s51,c65; s101,c187; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.19 $M_{\theta\theta}$0.15±.10; $M_{\phi\phi}$-4.04±.13; $M_{r\theta}$2.26±.31; $M_{\theta\phi}$-0.70±.06; $M_{\phi r}$5.50±.43; Best double couple: NP1:ϕ_s20.00000°,δ73.00000°,λ97.00000°. NP2:ϕ_s178.00000°,δ18.00000°,λ69.00000°. Principal axes: T 7.1200,Plg61.0000°,Azm300.0000°; N 0.1140,Plg7.0000°,Azm198.0000°; P -7.2390,Plg28.0000°,Azm105.0000° $M_0$7.17900×10^{16}
ISC III 16 10 22 10.1–.84 37.90N–.06 144.14E–.07 35 3.8b 36 3-73
IDC III 16 10 22 04.8–.79 37.76N 144.38E 0 4.1,3.9 **¶17196430**
ISCJB III 16 10 22 07.8–.59 37.84N–.05 144.10E–.05 33 3.8b,3.9
JMA III 16 10 22 09.2–.50 37.82N 144.01E 45 4.7,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=16.7km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=152.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 16 10 24 06.7–.53 38.06N–.05 144.12E–.06 21–6 4.6b 112 3-130
ISCJB III 16 10 24 04.7–1.4 38.02N–.03 144.07E–.04 21–10 4.4b **¶16339085**
JMA III 16 10 24 06.5–.40 38.04N 144.04E 52 4.8
NEIC III 16 10 24 08.3–.24 37.99N 144.16E 35 4.8b
IDC III 16 10 24 08.1–.65 37.99N 144.24E 36–5 4.1,4.1
ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=151.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=146.0.
IDC Error ellipse: s-maj=15.5km s-min=11.9km az=129.0.
ISC III 16 10 26 31.1–.54 39.74N–.06 143.80E–.07 11 4.3b 54 2-150
JMA III 16 10 26 22.2–.10 39.18N 142.41E 20–2 3.6 **¶16461837**
ISCJB III 16 10 26 29.3–.42 39.70N–.05 143.69E–.07 11 4.2b
NEIC III 16 10 26 32.5–2.1 39.70N 143.76E 22–15 4.7b
IDC III 16 10 26 33.2–.75 39.62N 143.73E 28–4 4.1,4.1
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.0km az=36.1.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.3km az=120.0.
IDC Error ellipse: s-maj=15.8km s-min=13.5km az=134.0.
ISC III 16 10 31 33.8–.66 37.77N–.08 144.14E–.08 35 4.0b 33 4-90
ISCJB III 16 10 31 32.0–.54 37.79N–.07 144.20E–.08 33 4.0b **¶16461838**
NEIC III 16 10 31 33.1–.94 37.80N 144.28E 28–6 4.5b
IDC III 16 10 31 34.1–.76 37.83N 144.29E 34–5 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=8.2km az=142.8.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.3km az=131.0.
IDC Error ellipse: s-maj=16.7km s-min=14.1km az=114.0.
IDC III 16 10 41 35.5–1.3 37.12N 143.87E 0 3.8,3.8
¶17196439
IDC Error ellipse: s-maj=37.5km s-min=28.0km az=125.0.
ISC III 16 10 43 11.4–1.1 36.98N–.07 142.14E–.08 19 3.5b 16 1-90
IDC III 16 10 43 08.0–1.2 36.82N 142.26E 0 3.8,3.6 **¶600550308**
ISCJB III 16 10 43 09.7–.90 36.78N–.08 142.23E–.08 19 3.6b,3.6
JMA III 16 10 43 10.9–.30 36.90N 142.12E 6–3 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=26.9km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=8.1km az=28.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 10 45 57.3–1.3 37.5N–.20 143.5E–.10 35 4.0b 10 4-69
IDC III 16 10 45 51.7–1.3 37.28N 143.58E 0 4.1,4.1 **¶17196444**
ISCJB III 16 10 45 54.8–1.1 37.3N–.10 143.5E–.20 33 4.0b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 10 53 52.3–.60 37.51N–.05 143.85E–.06 35 3.9b 63 2-88
ISCJB III 16 10 53 50.5–.41 37.47N–.03 143.74E–.04 33 3.8b **¶16478410**
JMA III 16 10 53 50.7–.20 37.42N 143.71E 52 4.4
IDC III 16 10 53 52.8–.90 37.33N 143.88E 38–7 4.0L,3.9
NEIC III 16 10 53 52.4–.38 37.38N 143.87E 35 4.0b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=35.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.4km s-min=13.3km az=123.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.0km az=120.0.
IDC III 16 11 01 54.5–1.3 38.33N 143.05E 0 3.8,3.6
¶600550333
IDC Error ellipse: s-maj=36.4km s-min=26.2km az=103.0.
JMA III 16 11 02 29.1–.40 37.73N 142.37E 0 4.1
¶603049853
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 11 07 52.1–.91 34.92N–.05 141.29E–.09 27 3.7b 21 0-76
IDC III 16 11 07 48.1–.91 34.92N 141.26E 0 3.9,3.7b **¶602664594**
ISCJB III 16 11 07 50.3–.76 34.92N–.04 141.42E–.08 27 4.0s,3.6b
JMA III 16 11 07 51.4–.30 34.96N 141.35E 39–4 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=17.9km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.3km az=173.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 16 11 29 12.7–.52 39.87N–.05 143.72E–.07 19–1 4.5b,4.0s 103 2-87
JMA III 16 11 29 11.0–.50 39.97N 143.57E 2–5 4.6,4.0s **¶602664450**
ISCJB III 16 11 29 11.8–1.5 39.82N–.03 143.65E–.06 25–10 4.4b,4.1s
IDC III 16 11 29 13.2–.54 39.72N 143.67E 27–3 4.3,4.2
NEIC III 16 11 29 15.4–.61 39.82N 143.61E 38–5 4.8b,4.2
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.9km az=20.3.
IDC Error ellipse: s-maj=14.0km s-min=11.6km az=130.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=124.0.
ISC III 16 11 51 40.3–.60 38.58N–.05 143.10E–.07 34–2 4.4b,4.2s 74 2-150
NIED III 16 11 51 00 38.60N 142.80E 20 4.4W,4.2s **¶16339088**
JMA III 16 11 51 38.6–.30 38.62N 142.79E 4–3 4.6,4.2s
ISCJB III 16 11 51 39.0–.99 38.57N–.04 143.07E–.08 39–8 4.3b,3.9s
NEIC III 16 11 51 40.1–2.8 38.51N 143.18E 34–20 4.7b,3.9s
IDC III 16 11 51 40.2–.61 38.53N 143.05E 35–4 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ47.00000°,λ-152.00000°. NP2:ϕ_s206.00000°,δ70.00000°,λ-47.00000°. $M_0$4.61000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=5.9km az=9.6.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.3km az=103.0.
IDC Error ellipse: s-maj=14.1km s-min=12.6km az=149.0.
ISC III 16 12 07 11.7–.98 37.98N–.07 144.17E–.08 35 3.7b 23 3-62
IDC III 16 12 07 06.5–.95 37.80N 144.31E 0 3.9,3.7b **¶17196456**
ISCJB III 16 12 07 09.5–.72 37.98N–.05 144.15E–.06 33 3.7b,3.7s
JMA III 16 12 07 11.5–.30 38.02N 144.08E 55 4.0,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=19.7km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.5km az=12.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 16 12 10 20.8–35 38.18N 144.15E 0 3.8,3.6b
¶17196457
IDC Error ellipse: s-maj=745.9km s-min=55.3km az=12.0.
ISC III 16 12 12 00.4–1.0 36.99N–.09 143.84E–.10 35 3.7b 15 5-61
IDC III 16 12 11 55.2–1.0 37.10N 143.97E 0 4.0,3.9 **¶603049854**
ISCJB III 16 12 11 58.2–.80 36.97N–.08 143.81E–.08 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 12 15 11.8–.45 36.38N–.05 142.90E–.06 29 4.4b,3.7s 103 2-154
NIED III 16 12 15 00 36.50N 142.70E 5 4.4W,3.7s **¶602664411**
IDC III 16 12 15 07.3–.47 36.32N 143.03E 0 4.4,4.3
MOS III 16 12 15 08.9–1.1 36.31N 143.00E 23 4.7b,4.3
ISCJB III 16 12 15 10.0–.34 36.29N–.04 142.91E–.04 29 4.4b,3.6s
NEIC III 16 12 15 10.1–2.6 36.33N 143.02E 18–16 4.5b,3.6s
JMA III 16 12 15 12.2–.20 36.48N 142.69E 28 4.5,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ26.00000°,λ-96.00000°. NP2:ϕ_s201.00000°,δ64.00000°,λ-87.00000°. $M_0$4.81000×10^{15}
IDC Error ellipse: s-maj=12.8km s-min=11.2km az=110.0.
MOS Error ellipse: s-maj=10.1km s-min=6.8km az=117.5.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=148.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 16 12 15 27.4–.20 37.48N 142.50E 0 4.5
¶600550434
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 16 12 20 56.3–.88 37.74N–.06 144.70E–.07 35 3.4b 27 3-75
IDC III 16 12 20 50.8–.90 37.54N 144.85E 0 3.7,3.5 **¶17196459**
ISCJB III 16 12 20 54.4–.68 37.76N–.05 144.66E–.05 33 3.5b,3.5
JMA III 16 12 20 54.0–.50 37.72N 144.67E 49 4.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=20.6km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.0km az=10.8.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 16 12 25 15.2–4.6 37.60N–.05 143.46E–.07 17–29 3.8b 46 2-150
NIED III 16 12 25 00 37.60N 143.40E 5 3.8W **¶16453158**
IDC III 16 12 25 12.6–.82 37.62N 143.53E 0 3.9,3.8
ISCJB III 16 12 25 15.0–1.9 37.61N–.04 143.52E–.05 30–14 3.8b,3.4s
JMA III 16 12 25 16.1–.40 37.58N 143.42E 33 4.0,3.4s
NEIC III 16 12 25 17.8–.50 37.63N 143.45E 35 4.1b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ36.00000°,λ-52.00000°. NP2:ϕ_s181.00000°,δ62.00000°,λ-115.00000°. $M_0$5.63000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=17.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.7km az=37.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.9km az=120.0.
IDC III 16 12 31 08.3–1.2 36.94N 142.92E 0 3.7,3.5
¶17196461
IDC Error ellipse: s-maj=37.5km s-min=23.2km az=75.0.
ISC III 16 12 42 00.8–.95 37.32N–.06 142.12E–.08 24 3.9b 22 1-69
NIED III 16 12 41 00 37.40N 142.30E 11 3.7W **¶17196462**
IDC III 16 12 41 57.1–1.1 37.34N 142.20E 0 4.1,4.1
JMA III 16 12 41 57.7–.30 37.41N 142.27E 6–3 4.4,4.1
ISCJB III 16 12 41 58.3–.69 37.28N–.05 142.30E–.07 24 4.0b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ27.00000°,λ-145.00000°. NP2:ϕ_s221.00000°,δ75.00000°,λ-67.00000°. $M_0$4.40000×10^{14}
ISCJB Event type ke.
JMA III 16 12 45 14.9–.20 36.37N 142.07E 32 3.8
¶603049857
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 12 45 21.9–.56 36.38N–.05 142.98E–.04 25–3 4.7b,4.0s 237 4-154
IDC III 16 12 45 18.0–.51 36.35N 143.03E 0 4.5,4.5b **¶600550476**
ISCJB III 16 12 45 19.3–1.2 36.39N–.04 142.90E–.04 15–7 4.7b,3.9s
NEIC III 16 12 45 23.7–.19 36.39N 142.91E 35 4.8b,3.9s
MOS III 16 12 45 23.9–.90 36.81N 142.87E 33 5.0b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=12.1km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=161.6.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=151.0.
MOS Error ellipse: s-maj=8.6km s-min=5.4km az=109.9.
ISC III 16 12 48 35.8–.62 37.28N–.04 142.70E–.04 23–3 4.8b,4.3s 250 2-151
NIED III 16 12 48 00 37.30N 142.50E 23 4.4W,4.3s **¶602664364**
IDC III 16 12 48 33.2–.49 37.32N 142.58E 0 4.6,4.5
ISCJB III 16 12 48 34.6–1.1 37.31N–.03 142.62E–.04 24–8 4.7b,4.3s
BJI III 16 12 48 34.0 37.22N 142.46E 19 5.0b,4.8b
MOS III 16 12 48 36.3–1.2 37.45N 142.63E 33 5.1b,4.8b
JMA III 16 12 48 36.7–.20 37.33N 142.51E 29 4.6,4.8b
NEIC III 16 12 48 37.7–1.3 37.34N 142.57E 30–9 4.9b,4.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ40.00000°,λ135.00000°. NP2:ϕ_s71.00000°,δ63.00000°,λ60.00000°. $M_0$4.56000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.7km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.3km az=135.3.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=110.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=124.0.
JMA III 16 12 51 51.0–.50 38.76N 143.02E 5 4.0
¶602664359
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
ISC III 16 12 54 23.3–.60 37.34N–.08 143.66E–.07 35 4.2b 49 3-118
NIED III 16 12 54 00 36.20N 142.60E 5 4.5W **¶16461840**
IDC III 16 12 54 17.8–.61 37.35N 143.83E 0 4.6L,4.3
ISCJB III 16 12 54 21.3–.46 37.35N–.06 143.68E–.06 33 4.2b,4.3
NEIC III 16 12 54 22.6–2.2 37.36N 143.82E 31–15 4.7b,4.3
JMA III 16 12 54 37.5–.20 36.24N 142.60E 7 4.6,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ25.00000°,λ-71.00000°. NP2:ϕ_s202.00000°,δ66.00000°,λ-98.00000°. $M_0$6.81000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.8km az=141.8.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.9km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 13 16 22.7–.91 37.55N–.05 143.61E–.08 35 3.7b 35 2-62
IDC III 16 13 16 17.5–1.0 37.60N 143.79E 0 3.8,3.8L **¶16427613**
JMA III 16 13 16 19.8–.40 37.50N 143.62E 34 4.1,3.8L
ISCJB III 16 13 16 20.7–.59 37.49N–.05 143.61E–.05 33 3.8b,3.8L
NEIC III 16 13 16 22.8–.72 37.70N 143.71E 35 4.0b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=26.2km s-min=19.8km az=97.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=150.5.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=10.9km az=111.0.
ISC III 16 13 34 50.4–1.9 39.9N–.10 143.4E–.10 35 3.8b 19 2-50
IDC III 16 13 34 32.2–6.7 38.27N 144.56E 0 3.9,3.9 **¶17196464**
JMA III 16 13 34 47.4–.40 39.94N 143.34E 6 3.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=127.0km s-min=34.4km az=148.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 13 35 38.2–.74 37.18N–.06 143.58E–.07 35 3.9b 33 2-89
NIED III 16 13 35 00 37.20N 143.50E 5 3.9W **¶16427616**
IDC III 16 13 35 32.8–.81 37.15N 143.64E 0 4.0,3.9
JMA III 16 13 35 34.8–.60 37.18N 143.51E 17 4.1,3.9
ISCJB III 16 13 35 35.9–.53 37.17N–.04 143.58E–.05 33 3.9b,3.7s
NEIC III 16 13 35 37.0–4.5 37.20N 143.69E 29–31 4.0b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ40.00000°,λ-99.00000°. NP2:ϕ_s238.00000°,δ51.00000°,λ-83.00000°. $M_0$7.35000×10^{14}
IDC Error ellipse: s-maj=21.3km s-min=17.0km az=100.0.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=142.4.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=11.0km az=118.0.
ISC III 16 13 38 49.2–.44 37.03N–.06 143.17E–.07 25 5.0b,4.4s 262 5-154
NEIC III 16 13 38 41.0–.53 36.92N 140.47E 29–4 5.0b,4.4s **¶17196465**
IDC III 16 13 38 44.9–.75 36.85N 143.10E 0 4.9,4.8
ISCJB III 16 13 38 49.5–.27 37.24N–.04 143.18E–.05 25 5.0b,4.1s
MOS III 16 13 38 51.9–.93 37.38N 143.15E 37 5.3b,4.1s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=8.8km az=121.0.
IDC Error ellipse: s-maj=21.2km s-min=18.4km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.2km az=173.5.
MOS Error ellipse: s-maj=11.2km s-min=4.8km az=104.8.
ISC III 16 13 59 29.9–.74 36.78N–.05 143.11E–.07 25 3.7b 36 2-89
NIED III 16 13 59 00 36.70N 143.00E 5 3.9W **¶16427618**
IDC III 16 13 59 25.8–.95 36.68N 143.34E 0 4.1,4.1L
JMA III 16 13 59 28.8–.40 36.73N 143.01E 19 4.2,4.1L
ISCJB III 16 13 59 28.2–.52 36.72N–.04 143.12E–.05 25 3.8b,4.1L
NEIC III 16 13 59 30.5–.53 36.66N 143.40E 35 4.3b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ38.00000°,λ-79.00000°. NP2:ϕ_s193.00000°,δ53.00000°,λ-98.00000°. $M_0$6.70000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=18.2km az=123.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.6km az=140.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=8.5km az=104.0.
ISC III 16 14 03 23.9–1.0 36.81N–.07 143.15E–.09 25 3.5b 18 2-63
IDC III 16 14 03 20.0–1.1 36.59N 143.31E 0 3.9,3.7 **¶600550652**
ISCJB III 16 14 03 21.6–.78 36.68N–.06 143.17E–.07 25 3.7b,3.7
JMA III 16 14 03 23.3–.30 36.83N 143.15E 46 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=20.1km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.1km az=149.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 16 14 12 02.9–1.2 37.5N–.20 144.4E–.20 35 3.7b 7 5-62
IDC III 16 14 11 57.7–1.2 37.48N 144.49E 0 4.1,4.1s **¶16427619**
ISCJB III 16 14 12 00.2–.91 37.5N–.10 144.5E–.20 33 4.1s,3.8b
NEIC III 16 14 12 02.5–.84 37.58N 144.44E 35 4.0b,3.8b
ISC Event type se.

IDC Error ellipse: s-maj=36.3km s-min=26.0km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=21.0km s-min=15.1km az=3.2.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=14.0km az=97.0.
JMA III 16 14 22 13.5–.60 38.51N 144.33E 19 3.8
¶602665028

JMA Error ellipse: s-maj=4.4km s-min=3.5km az=-1.0.
IDC III 16 14 24 58.6–1.0 37.79N 143.52E 0 3.7,3.6
¶17196471

IDC Error ellipse: s-maj=35.8km s-min=20.7km az=92.0.
ISC III 16 14 27 39.9–.55 38.94N–.06 144.40E–.05 19 4.3b 137 2-87
IDC III 16 14 27 36.8–.64 38.76N 144.34E 0 4.3,4.2 **¶16339091**
ISCJB III 16 14 27 38.0–.34 38.93N–.03 144.32E–.04 19 4.3b,3.4s
MOS III 16 14 27 39.5–1.3 38.92N 144.33E 33 4.5b,3.4s
JMA III 16 14 27 40.0–.30 39.03N 144.27E 40 4.4,3.4s
NEIC III 16 14 27 40.2–.47 38.83N 144.32E 22–3 4.7b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=13.7km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.1km az=137.7.
MOS Error ellipse: s-maj=9.0km s-min=5.9km az=99.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=132.0.
ISC III 16 14 41 47.5–.72 38.29N–.06 144.37E–.07 35 3.9b 42 3-87
IDC III 16 14 41 42.0–.74 38.17N 144.44E 0 3.9,3.8 **¶16427622**
NEIC III 16 14 41 43.7–.38 38.21N 144.44E 10 4.4b,3.8
ISCJB III 16 14 41 45.6–.48 38.25N–.05 144.28E–.05 33 3.8b,3.8
JMA III 16 14 41 47.7–.40 38.32N 144.18E 42 4.3,3.8
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=17.5km az=107.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.8km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.3km az=10.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 16 14 44 34.1–.30 36.96N 142.02E 30–4 3.5
¶602664994

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 16 14 50 59.0–.70 38.63N 144.16E 40 4.0
¶602664988

JMA Error ellipse: s-maj=4.4km s-min=5.2km az=-1.0.
ISC III 16 15 00 57.0–.50 39.14N–.05 144.53E–.06 19 4.6b,3.7s 101 3-145
NIED III 16 15 00 00 39.20N 144.40E 5 4.5W,3.7s **¶602664961**
IDC III 16 15 00 53.4–.54 38.97N 144.63E 0 4.4,4.4
NEIC III 16 15 00 55.9–1.9 39.03N 144.55E 14–12 4.8b,4.4
ISCJB III 16 15 00 55.4–.31 39.13N–.04 144.46E–.04 19 4.5b,3.6s
JMA III 16 15 00 58.0–.60 39.20N 144.43E 61 4.9,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ34.00000°,λ-46.00000°. NP2:ϕ_s151.00000°,δ66.00000°,λ-116.00000°. M_o5.72000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=12.2km az=131.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=130.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.8km az=153.8.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
ISC III 16 15 04 04.9–.69 39.15N–.06 144.56E–.07 19 4.2b 50 3-80
NEIC III 16 15 04 01.6–2.7 39.00N 144.63E 2–17 4.6b **¶16427625**
IDC III 16 15 04 01.1–.85 38.95N 144.64E 0 4.2,4.1
ISCJB III 16 15 04 03.3–.49 39.14N–.05 144.48E–.05 19 4.1b,3.1s
JMA III 16 15 04 05.3–.40 39.22N 144.45E 44 4.7,3.1s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.0km az=115.0.
IDC Error ellipse: s-maj=20.8km s-min=16.7km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.9km az=148.9.
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISC III 16 15 05 19.7–.97 39.23N–.10 143.27E–.09 20 4.1b 20 2-73
IDC III 16 15 05 16.3–1.2 39.17N 143.35E 0 4.0,3.9 **¶16427626**
ISCJB III 16 15 05 17.3–.68 39.25N–.07 143.44E–.08 20 4.0b,3.9
JMA III 16 15 05 18.9–.30 39.52N 143.29E 4–4 4.2,3.9
NEIC III 16 15 05 20.7–8.1 39.14N 143.30E 28–56 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=33.3km s-min=22.7km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.3km az=34.6.
JMA Error ellipse: s-maj=4.4km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=27.4km s-min=13.8km az=73.0.
ISC III 16 15 24 38.2–1.2 38.5N–.20 144.4E–.20 29 3.6b 8 5-63
IDC III 16 15 24 33.9–1.1 38.46N 144.63E 0 3.7,3.5 **¶17196480**
ISCJB III 16 15 24 36.2–.95 38.4N–.10 144.4E–.20 29 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 15 27 01.7–.60 36.16N–.07 142.49E–.05 24–2 4.5s,4.4b 145 3-146
IDC III 16 15 26 57.5–.68 36.12N 142.50E 0 4.4,4.4s **¶16339094**
ISCJB III 16 15 26 59.4–1.4 36.09N–.05 142.46E–.06 22–9 4.5s,4.3b
MOS III 16 15 27 01.8–1.8 36.16N 142.54E 35 4.7b,4.3b
NEIC III 16 15 27 03.1–1.2 36.25N 142.50E 36–10 4.8b,4.3b
GCMT III 16 15 27 03.1–.20 36.09N 142.52E 12 5.0W,4.3b
ISC Event type ke.
IDC Error ellipse: s-maj=17.4km s-min=16.3km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.7km az=38.7.
MOS Error ellipse: s-maj=10.6km s-min=6.5km az=114.6.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.3km az=117.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c36; s108,c174; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.77±.07 $M_{\theta\theta}$-0.43±.07; $M_{\phi\phi}$-3.34±.06; $M_{r\theta}$1.78±.30; $M_{\theta\phi}$-0.32±.06; $M_{\phi r}$0.58±.24; Best double couple: NP1:ϕ_s26.00000°,δ55.00000°,λ113.00000°. NP2:ϕ_s170.00000°,δ41.00000°,λ61.00000°. Principal axes: T 4.4480,Plg70.0000°,Azm351.0000°; N -0.9760,Plg19.0000°,Azm192.0000°; P -3.4690,Plg7.0000°,Azm100.0000° M_o3.95800×10^{16}
ISC III 16 15 42 56.8–.70 36.50N–.05 142.97E–.05 20–2 4.2b 144 2-146
NIED III 16 15 42 00 36.40N 142.80E 5 4.1W **¶602664287**
IDC III 16 15 42 53.2–.63 36.37N 143.04E 0 4.2,4.2b
ISCJB III 16 15 42 54.6–1.2 36.49N–.03 142.94E–.04 16–8 4.2b,4.2b
NEIC III 16 15 42 54.7–1.6 36.40N 143.06E 10–9 4.7b,4.2b
JMA III 16 15 42 57.7–.20 36.45N 142.82E 63 4.1,4.2b
MOS III 16 15 42 57.3–1.5 36.59N 143.04E 35 4.5b,4.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ42.00000°,λ-78.00000°. NP2:ϕ_s20.00000°,δ49.00000°,λ-100.00000°. M_o1.40000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=13.9km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=143.5.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.2km az=137.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=106.2.
ISC III 16 15 53 50.7–.75 36.41N–.07 143.44E–.07 35 3.9b 42 2-89
IDC III 16 15 53 45.1–.77 36.35N 143.51E 0 4.2s,4.2 **¶16427628**
ISCJB III 16 15 53 48.7–.51 36.34N–.06 143.40E–.04 33 4.2s,3.9b
JMA III 16 15 53 50.1–.30 36.41N 143.31E 50 3.6,3.9b
NEIC III 16 15 53 50.5–.51 36.40N 143.50E 35 4.3b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=18.3km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.1km az=172.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.9km az=91.0.
JMA III 16 15 56 51.8–.80 38.07N 143.48E 27 4.1
¶602664260

JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
JMA III 16 16 02 29.0–.40 39.45N 143.10E 10–4 4.2
¶602664254

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 16 16 08 17.3–1.4 38.86N 143.50E 0 3.7,3.5
¶17196486

IDC Error ellipse: s-maj=62.1km s-min=23.1km az=114.0.
IDC III 16 16 10 09.3–1.2 36.65N 143.31E 0 3.7,3.5b
¶17196487

IDC Error ellipse: s-maj=34.7km s-min=25.5km az=96.0.
ISC III 16 16 12 41.0–.77 37.63N–.06 143.80E–.07 35 3.9b 39 2-76
NIED III 16 16 12 00 37.60N 143.70E 5 4.0W **¶16427633**
IDC III 16 16 12 35.8–.73 37.50N 144.06E 0 4.0,3.9
JMA III 16 16 12 39.9–.30 37.59N 143.68E 47 4.1,3.9
ISCJB III 16 16 12 39.6–.52 37.63N–.04 143.73E–.05 33 3.9b,3.9
NEIC III 16 16 12 41.2–.50 37.55N 143.93E 35 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ22.00000°,λ-109.00000°. NP2:ϕ_s207.00000°,δ69.00000°,λ-82.00000°. M_o1.23000×10^{15}
IDC Error ellipse: s-maj=18.5km s-min=16.5km az=122.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.3km az=138.1.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.2km az=135.0.
ISC III 16 16 20 11.7–.69 36.36N–.07 142.93E–.08 29 3.9b 34 2-146
IDC III 16 16 20 07.2–.79 36.39N 143.10E 0 4.0,4.0 **¶602664228**
ISCJB III 16 16 20 09.8–.52 36.34N–.05 142.94E–.05 29 4.0b,4.0
NEIC III 16 16 20 09.9–4.9 36.37N 143.07E 18–30 4.3b,4.0
JMA III 16 16 20 11.2–.40 36.39N 142.85E 63 3.8,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=16.7km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.9km az=153.7.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.8km az=103.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 16 16 33 02.8–.77 37.15N–.07 142.37E–.09 9 3.8b 30 1-77
NIED III 16 16 33 00 37.20N 142.40E 11 4.0W **¶600550949**
ISCJB III 16 16 33 00.7–.54 37.09N–.05 142.45E–.06 9 3.8b
JMA III 16 16 33 01.7–.50 37.18N 142.44E 14 4.2
IDC III 16 16 33 01.3–.82 37.10N 142.37E 0 3.9,3.9L
NEIC III 16 16 33 06.8–1.1 37.19N 142.32E 36–10 4.3b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ76.00000°,λ9.00000°. NP2:ϕ_s295.00000°,δ81.00000°,λ166.00000°. M_o1.03000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=6.6km az=37.8.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=23.5km s-min=15.5km az=105.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.0km az=112.0.
ISC III 16 16 40 43.2–.00 37.10N–.09 142.3E–.10 9 3.6b 18 1-61
NIED III 16 16 40 00 37.20N 142.10E 38 3.8W **¶16427636**
IDC III 16 16 40 41.9–1.2 37.17N 142.37E 0 4.0L,3.8
ISCJB III 16 16 40 41.3–.75 37.17N–.08 142.36E–.09 9 3.8b,3.5s
NEIC III 16 16 40 45.6–4.7 37.17N 142.30E 24–32 4.1b,3.5s
JMA III 16 16 40 46.7–.40 37.17N 142.06E 31–5 3.9,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ48.00000°,λ0.00000°. NP2:ϕ_s148.00000°,δ90.00000°,λ138.00000°. M_o5.43000×10^{14}
IDC Error ellipse: s-maj=31.8km s-min=20.7km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=10.3km az=149.5.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=9.8km az=69.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 16 16 44 43.0–.83 37.18N–.08 142.40E–.09 9 3.7b 23 1-75
NIED III 16 16 44 00 37.30N 142.40E 5 3.9W **¶16427637**
ISCJB III 16 16 44 40.9–.58 37.20N–.06 142.52E–.07 9 3.8b
JMA III 16 16 44 41.9–.50 37.28N 142.41E 10–5 4.1
IDC III 16 16 44 41.4–.94 37.23N 142.54E 0 3.9,3.8
NEIC III 16 16 44 43.2–4.9 37.21N 142.57E 13–30 4.1b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ49.00000°,λ-26.00000°. NP2:ϕ_s141.00000°,δ71.00000°,λ-136.00000°. M_o6.95000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.2km az=140.1.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=24.7km s-min=16.8km az=98.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=8.8km az=95.0.
IDC III 16 16 53 20.8–2.8 38.29N 143.36E 0 3.5,3.4b
¶17196490

IDC Error ellipse: s-maj=70.4km s-min=34.2km az=56.0.
ISC III 16 17 07 24.9–.79 38.68N–.08 143.34E–.08 15 3.9b 21 2-88
ISCJB III 16 17 07 23.0–.64 38.62N–.06 143.58E–.08 15 3.9b **¶600551025**
JMA III 16 17 07 29.5–.40 38.62N 142.93E 11 4.2
IDC III 16 17 07 29.4–4.1 38.68N 143.40E 50–39 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.9km az=138.7.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=17.1km az=74.0.
ISC III 16 17 18 41.7–.66 38.4N–.10 144.8E–.10 29 4.1b 41 6-118
IDC III 16 17 18 37.3–.63 38.45N 144.83E 0 4.3,4.2 **¶16437917**
ISCJB III 16 17 18 40.0–.51 38.38N–.09 144.78E–.09 29 4.1b,4.2
NEIC III 16 17 18 42.6–.41 38.42N 144.74E 35 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=15.4km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=8.3km az=145.9.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.1km az=133.0.
ISC III 16 17 48 08.3–.91 34.2N–.20 141.4E–.20 24 3.7b 12 12-92
IDC III 16 17 48 04.5–.86 34.14N 141.53E 0 3.9,3.7 **¶17196496**
ISCJB III 16 17 48 06.2–.72 34.1N–.10 141.5E–.20 24 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 16 17 53 57.7–1.3 36.25N 143.11E 0 3.7,3.6
¶17196498

IDC Error ellipse: s-maj=29.8km s-min=24.6km az=94.0.
ISC III 16 17 55 07.7–.56 36.64N–.06 142.26E–.07 19 4.2b 63 1-91
NIED III 16 17 55 00 36.70N 142.20E 23 4.3W **¶16339097**
ISCJB III 16 17 55 05.8–.42 36.67N–.05 142.33E–.05 19 4.1b,3.4s
JMA III 16 17 55 07.6–.20 36.67N 142.23E 28 4.2,3.4s
NEIC III 16 17 55 10.6–.98 36.72N 142.23E 39–7 4.6b,3.4s
IDC III 16 17 55 10.7–2.6 36.65N 142.23E 39–22 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ27.00000°,λ82.00000°. NP2:ϕ_s29.00000°,δ63.00000°,λ94.00000°. M_o3.10000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.2km az=168.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.7km az=136.0.
IDC Error ellipse: s-maj=16.9km s-min=14.2km az=121.0.
IDC III 16 17 56 32.6–1.2 36.83N 144.38E 0 4.0,3.8
¶17196499

IDC Error ellipse: s-maj=41.7km s-min=24.8km az=90.0.
ISC III 16 18 04 51.1–1.2 37.4N–.20 142.1E–.20 24 3.5b 7 3-61
IDC III 16 18 04 47.5–1.2 37.46N 142.17E 0 3.7,3.6b **¶603049862**
ISCJB III 16 18 04 49.0–1.1 37.4N–.10 142.1E–.20 24 3.6b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 18 11 17.7–.76 38.64N–.06 144.76E–.07 29 3.9b 39 3-87
IDC III 16 18 11 12.7–2.5 38.36N 144.92E 0 4.0,3.8 **¶16437920**
ISCJB III 16 18 11 15.6–.54 38.55N–.05 144.70E–.05 29 3.9b,3.8
JMA III 16 18 11 16.5–.60 38.57N 144.68E 47 4.3,3.8
NEIC III 16 18 11 18.3–.67 38.46N 144.78E 35 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=61.2km s-min=24.1km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.6km az=157.1.
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=11.0km az=160.0.
ISC III 16 18 12 58.1–.50 37.15N–.03 142.23E–.03 30–3 5.0b,4.7s 548 2-151
NIED III 16 18 12 00 37.10N 142.30E 5 5.0W,4.7s **¶602003154**
JMA III 16 18 12 53.7–.40 37.12N 142.31E 17 5.2,4.7s
IDC III 16 18 12 53.5–.44 37.08N 142.28E 0 4.7,4.7b
BJI III 16 18 12 56.7 37.16N 142.02E 28 5.2b,5.0b
ISCJB III 16 18 12 56.3–.84 37.21N–.03 142.14E–.02 22–5 5.0b,4.6s
NEIC III 16 18 12 57.4–.65 37.12N 142.17E 21–4 5.1b,4.6s
MOS III 16 18 12 58.4–1.0 37.32N 142.12E 34 5.3b,4.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s130.00000°,δ14.00000°,λ24.00000°. NP2:ϕ_s16.00000°,δ84.00000°,λ102.00000°. M_o3.43000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

IDC Error ellipse: s-maj=12.2km s-min=10.2km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=157.3.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=145.0.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=114.8.
JMA III 16 18 17 42.5–.40 38.54N 144.61E 56 4.3
¶602664010

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 18 31 37.7–5.4 36.1N–.40 142.1E–.40 23 3.7b 8 1-56
JMA III 16 18 31 38.9–.30 36.26N 141.83E 77–5 3.1 **¶17196506**
IDC III 16 18 31 38.5–2.7 36.75N 141.85E 0 3.7,3.7b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=69.7km s-min=31.4km az=61.0.
ISC III 16 18 39 47.9–1.1 37.3N–.10 142.3E–.10 21 3.9b 19 3-69
IDC III 16 18 39 44.4–1.1 37.35N 142.48E 0 4.0,4.0b **¶16440418**
ISCJB III 16 18 39 45.4–.85 37.4N–.10 142.5E–.10 21 4.0b,4.0b
NEIC III 16 18 39 49.4–.85 37.41N 142.63E 35 4.7b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=28.1km s-min=19.8km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=17.3km s-min=14.2km az=36.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=15.0km az=120.0.
ISC III 16 18 40 52.3–1.1 37.1N–.10 142.5E–.10 9 4.1b 20 3-81
ISCJB III 16 18 40 50.1–.82 37.1N–.10 142.6E–.10 9 4.1b **¶16440419**
IDC III 16 18 40 50.6–1.3 37.12N 142.62E 0 4.1,4.1
NEIC III 16 18 40 53.9–9.2 37.13N 142.76E 24–62 4.8b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=11.2km az=161.6.
IDC Error ellipse: s-maj=42.2km s-min=20.5km az=73.0.
NEIC Event type se. Error ellipse: s-maj=31.7km s-min=18.7km az=85.0.
ISC III 16 18 48 04.8–.78 37.62N–.05 142.03E–.07 24 3.8b 28 1-91
NIED III 16 18 48 00 37.70N 141.80E 50 3.9W **¶17196511**
ISCJB III 16 18 48 03.2–.59 37.62N–.05 142.09E–.06 24 3.6b
JMA III 16 18 48 08.8–.10 37.67N 141.77E 37–3 4.1
IDC III 16 18 48 08.2–2.7 37.56N 141.92E 54–25 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ36.00000°,λ94.00000°. NP2:ϕ_s198.00000°,δ54.00000°,λ87.00000°. $M_0$8.38000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=6.1km az=140.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=13.8km az=85.0.
ISC III 16 18 55 58.6–.86 39.6N–.10 143.5E–.10 11 4.2b 28 10-78
ISCJB III 16 18 55 56.6–.64 39.54N–.09 143.6E–.10 11 3.9b **¶16331269**
IDC III 16 18 56 05.4–3.7 39.63N 143.42E 62–32 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=11.1km az=44.3.
IDC Error ellipse: s-maj=19.6km s-min=15.7km az=130.0.
ISC III 16 19 15 00.5–.77 37.57N–.08 143.0E–.10 24 4.0b 25 2-76
IDC III 16 19 14 56.9–.74 37.62N 143.03E 0 4.0,3.9b **¶600551201**
ISCJB III 16 19 14 58.3–.58 37.55N–.06 143.01E–.09 24 4.0b,3.9s
NEIC III 16 19 15 03.0–1.6 37.59N 142.86E 45–13 4.3b,3.9s
JMA III 16 19 15 11.1–.60 37.47N 142.01E 46 3.5,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=15.8km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=7.0km az=32.8.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=9.8km az=99.0.
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
IDC III 16 19 25 12.2–2.7 38.66N 144.91E 0 3.8,3.6
¶17196516

IDC Error ellipse: s-maj=65.4km s-min=30.6km az=66.0.
ISC III 16 19 34 16.4–.60 38.38N–.08 144.72E–.09 35 4.1b,3.9s 43 4-97
IDC III 16 19 34 11.2–.61 38.31N 144.81E 0 4.2,4.1 **¶16328831**
NEIC III 16 19 34 12.1–3.0 38.35N 144.78E 7–18 4.3b,4.1
ISCJB III 16 19 34 14.4–.44 38.34N–.06 144.69E–.08 35 4.1b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 16 19 35 02.3–.63 37.64N–.04 142.07E–.04 27–4 5.0b,4.3s 454 1-151
IDC III 16 19 34 58.0–.43 37.61N 142.09E 0 4.7,4.6 **¶600551263**
JMA III 16 19 35 00.7–.30 37.60N 142.01E 18–4 4.9,4.6
ISCJB III 16 19 35 00.1–.96 37.63N–.02 141.96E–.03 19–6 4.9b,4.2s
NIED III 16 19 35 00 37.60N 142.00E 8 4.7W,4.2s
BJI III 16 19 35 01.6 37.60N 142.00E 25 5.0b,4.7b
MOS III 16 19 35 02.6–.88 37.80N 141.92E 33 5.1b,4.7b
NEIC III 16 19 35 04.0–.56 37.65N 141.92E 36–5 4.9b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=12.4km s-min=10.2km az=121.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=145.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ40.00000°,λ-113.00000°. NP2:ϕ_s184.00000°,δ54.00000°,λ-72.00000°. $M_0$1.23000×10^{16}
MOS Error ellipse: s-maj=7.1km s-min=4.7km az=112.2.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.1km az=139.0.
JMA III 16 19 39 03.1–.40 39.81N 143.35E 8 3.9
¶602663938

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 16 19 45 26.4–.30 37.45N 143.41E 47 4.1
¶602663923

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 20 05 04.5–2.0 39.62N–.07 143.04E–.06 12–11 4.4b,3.8s 66 1-88
NIED III 16 20 05 00 39.70N 143.00E 20 4.4W,3.8s **¶602663852**
IDC III 16 20 05 02.6–.63 39.58N 142.91E 0 4.3,4.2
JMA III 16 20 05 04.3–.30 39.74N 143.05E 0 4.7,4.2
ISCJB III 16 20 05 04.3–2.0 39.63N–.06 143.19E–.06 26–13 4.3b,3.7s
NEIC III 16 20 05 06.2–3.5 39.62N 143.01E 23–23 4.6b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ13.00000°,λ87.00000°. NP2:ϕ_s20.00000°,δ77.00000°,λ91.00000°. $M_0$4.34000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=13.4km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=6.9km az=165.3.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.2km az=139.0.
ISC III 16 20 10 13.6–.80 37.47N–.07 142.55E–.07 21 3.6b 21 1-89
ISCJB III 16 20 10 11.4–.65 37.43N–.06 142.65E–.08 21 3.7b **¶17196521**
JMA III 16 20 10 12.5–.40 37.57N 142.36E 2 4.1
IDC III 16 20 10 17.1–3.0 37.41N 142.54E 54–28 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.6km az=33.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=27.1km s-min=14.0km az=89.0.
ISC III 16 20 11 20.9–.69 37.37N–.09 144.23E–.08 35 3.8b 29 5-88
IDC III 16 20 11 15.8–.67 37.38N 144.29E 0 4.0,3.9 **¶16449607**
NEIC III 16 20 11 17.3–4.3 37.38N 144.27E 10–26 4.2b,3.9
ISCJB III 16 20 11 18.8–.51 37.34N–.06 144.18E–.07 33 3.8b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 16 20 16 14.3–.30 39.37N 143.21E 0 3.5
¶602663828

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 20 19 33.9–.78 37.17N–.06 143.63E–.07 35 3.7b 38 2-89
IDC III 16 20 19 28.4–1.2 37.08N 143.85E 0 4.0,3.9 **¶16449610**
ISCJB III 16 20 19 31.6–.57 37.06N–.05 143.61E–.05 33 3.8b,3.9
JMA III 16 20 19 32.6–.40 37.24N 143.53E 50 4.1,3.9
NEIC III 16 20 19 33.1–3.5 37.00N 143.78E 34–26 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.5km s-min=19.6km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=146.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=10.6km az=56.0.
IDC III 16 20 44 07.3–2.2 37.46N 143.49E 0 4.0,3.9
¶16478660

IDC Error ellipse: s-maj=56.3km s-min=26.3km az=69.0.
ISC III 16 20 44 20.1–.63 37.3N–.10 143.81E–.08 35 4.1b 43 5-118
ISCJB III 16 20 44 17.9–.44 37.28N–.06 143.74E–.07 33 4.2b **¶17196525**
NEIC III 16 20 44 17.7–3.5 37.34N 143.79E 18–21 4.8b
IDC III 16 20 44 20.5–3.1 37.29N 143.76E 38–26 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=7.0km az=143.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.1km az=102.0.
IDC Error ellipse: s-maj=16.3km s-min=13.7km az=112.0.
ISC III 16 20 44 32.1–.71 37.27N–.09 143.8E–.10 35 4.1b 29 4-88
IDC III 16 20 44 26.8–.76 37.26N 143.81E 0 4.2,4.1 **¶17196527**
ISCJB III 16 20 44 29.8–.54 37.24N–.07 143.71E–.09 33 4.1b,4.1
NEIC III 16 20 44 32.0–.36 37.27N 143.75E 35 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.2km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=8.6km az=37.5.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.0km az=140.0.
ISC III 16 20 44 42.9–.44 37.39N–.04 143.69E–.03 23–2 5.2b,5.1s 606 2-153
NIED III 16 20 44 00 37.40N 143.60E 5 5.1W,5.1s **¶17196529**
IDC III 16 20 44 39.0–.39 37.31N 143.76E 0 4.9,4.8
BJI III 16 20 44 40.2 37.53N 143.46E 8 5.4b,5.2s
ISCJB III 16 20 44 40.6–.78 37.41N–.02 143.59E–.02 13–4 5.1b,5.0s
NEIC III 16 20 44 41.2–1.8 37.34N 143.64E 10–11 5.3b,5.0s
GCMT III 16 20 44 41.2–.20 37.41N 143.79E 12 5.1W,5.0s
JMA III 16 20 44 42.6–.50 37.37N 143.62E 47 5.2,5.0s
MOS III 16 20 44 44.8–.95 37.70N 143.62E 33 5.5b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ35.00000°,λ-99.00000°. NP2:ϕ_s201.00000°,δ55.00000°,λ-84.00000°. $M_0$5.84000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=9.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=160.6.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=135.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c66; s114,c205; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.45±.10 $M_{\theta\theta}$0.95±.10; $M_{\phi\phi}$5.50±.09; $M_{r\theta}$-0.17±.33; $M_{\theta\phi}$2.15±.08; $M_{\theta r}$-0.00±.33; Best double couple: NP1:ϕ_s23.00000°,δ45.00000°,λ-88.00000°. NP2:ϕ_s200.00000°,δ45.00000°,λ-92.00000°. Principal axes:
T 6.3560,Plg0.0000°,Azm112.0000°; N 0.1020,Plg1.0000°,Azm202.0000°
; P -6.4540,Plg89.0000°,Azm10.0000° $M_0$6.40500×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=102.0.
JMA III 16 20 45 57.0–.20 36.89N 142.35E 20 4.9
¶602663768

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 16 20 45 57.9–.90 37.9N–.20 144.7E–.10 35 4.6b 23 18-119
IDC III 16 20 45 52.4–.90 37.91N 144.61E 0 4.8,4.7 **¶17196531**
ISCJB III 16 20 45 55.9–.73 37.9N–.10 144.6E–.10 33 4.6b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 20 55 48.4–.91 38.59N–.07 144.71E–.08 29 3.9b 27 3-77
IDC III 16 20 55 43.7–.84 38.45N 144.88E 0 3.8,3.7 **¶17196534**
ISCJB III 16 20 55 47.2–.72 38.65N–.05 144.65E–.06 29 3.8b,3.7
JMA III 16 20 55 48.5–.40 38.54N 144.50E 25 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=18.6km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.2km az=162.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 16 21 08 23.9–1.6 37.53N–.06 142.5E–.10 21 14 1-61
IDC III 16 21 08 20.9–5.6 37.50N 142.87E 0 4.0,3.9 **¶600551457**
ISCJB III 16 21 08 22.9–1.1 37.52N–.07 142.49E–.09 21 3.9b,3.9
JMA III 16 21 08 25.4–.30 37.60N 142.39E 37 3.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=106.4km s-min=50.4km az=9.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.6km az=135.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 16 21 08 48.1–.67 37.2N–.10 143.74E–.09 35 4.3b 56 4-89
IDC III 16 21 08 42.8–.74 37.20N 143.79E 0 4.2,4.1 **¶17196537**
ISCJB III 16 21 08 46.1–.35 37.15N–.06 143.70E–.06 33 4.4b,4.1
NEIC III 16 21 08 48.2–.23 37.16N 143.74E 35 4.8b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=17.4km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.1km az=156.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.8km az=139.0.
IDC III 16 21 08 52.7–1.7 37.20N 143.92E 0 4.3,4.1
¶17196541

IDC Error ellipse: s-maj=45.7km s-min=30.4km az=68.0.
ISC III 16 21 12 54.0–.56 36.55N–.05 142.21E–.07 19 4.2b 47 2-146
NIED III 16 21 12 00 36.70N 142.20E 26 4.1W **¶600551470**
IDC III 16 21 12 51.4–.72 36.64N 142.28E 0 4.0,3.8
ISCJB III 16 21 12 52.5–.41 36.54N–.04 142.19E–.05 19 4.5b,3.8
JMA III 16 21 12 55.6–.40 36.69N 142.21E 47 3.9,3.8
NEIC III 16 21 12 56.2–.44 36.61N 142.21E 35 4.7b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s268.00000°,δ64.00000°,λ-85.00000°. $M_0$1.36000×10^{15}
IDC Error ellipse: s-maj=20.7km s-min=18.2km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.2km az=0.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=8.9km az=121.0.
ISC III 16 21 32 41.5–.53 37.85N–.06 142.73E–.06 14 4.5b 94 2-145
NIED III 16 21 32 00 37.90N 142.60E 23 4.3W **¶16461845**
IDC III 16 21 32 39.8–.78 37.89N 142.62E 0 4.3,4.1
JMA III 16 21 32 40.7–.30 37.90N 142.58E 7 4.5,4.1
ISCJB III 16 21 32 40.3–.38 37.91N–.05 142.72E–.04 14 4.3b,3.5s
NEIC III 16 21 32 42.2–3.1 37.97N 142.66E 14–19 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ27.00000°,λ-124.00000°. NP2:ϕ_s196.00000°,δ67.00000°,λ-74.00000°. $M_0$2.95000×10^{15}
IDC Error ellipse: s-maj=20.7km s-min=14.3km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=162.9.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.6km az=140.0.
JMA III 16 21 41 21.0–.30 37.44N 142.68E 26 3.5
¶602663643

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 21 46 07.8–.41 37.33N–.05 143.45E–.05 35 4.6b 197 2-145
NIED III 16 21 46 00 37.30N 143.40E 5 4.4W **¶16461846**
IDC III 16 21 46 02.2–.51 37.26N 143.59E 0 4.5,4.4
NEIC III 16 21 46 04.3–2.2 37.27N 143.56E 12–13 4.7b,4.4
ISCJB III 16 21 46 05.6–.24 37.27N–.03 143.45E–.03 33 4.5b,3.0s
JMA III 16 21 46 06.2–.20 37.29N 143.38E 50 4.6,3.0s
MOS III 16 21 46 07.3–.81 37.61N 143.44E 33 4.8b,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ38.00000°,λ-82.00000°. NP2:ϕ_s199.00000°,δ53.00000°,λ-96.00000°. $M_0$4.91000×10^{15}
IDC Error ellipse: s-maj=13.6km s-min=11.5km az=113.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.0km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=147.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=99.7.
ISC III 16 21 46 20.3–.60 37.25N–.09 143.54E–.09 35 4.6b 52 4-89
IDC III 16 21 46 14.9–.58 37.23N 143.63E 0 4.5,4.4 **¶16478677**
ISCJB III 16 21 46 18.0–.41 37.19N–.07 143.55E–.08 33 4.5b,4.4
NEIC III 16 21 46 20.1–.27 37.24N 143.57E 35 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=13.7km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=8.1km az=149.9.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=133.0.
ISC III 16 21 50 53.1–.67 37.43N–.06 142.74E–.07 21 4.1b 42 2-89
JMA III 16 21 50 50.7–.20 37.58N 142.59E 0 4.2 **¶602663631**
IDC III 16 21 50 50.4–.75 37.46N 142.72E 0 4.1,3.9

ISCJB III 16 21 50 51.4–.44 37.44N–.04 142.72E–.05 21 4.0b,3.9
NEIC III 16 21 50 52.1–3.9 37.48N 142.83E 12–25 4.6b,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=15.8km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.8km az=136.5.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.1km az=118.0.
ISC III 16 21 52 04.1–1.1 37.6N–.10 142.84E–.10 24 4.0b 16 2-69
JMA III 16 21 52 00.8–.30 37.66N 142.79E 3 4.4 **¶17196545**
IDC III 16 21 52 00.4–1.1 37.64N 142.98E 0 4.1,4.0
ISCJB III 16 21 52 02.0–.81 37.64N–.08 142.91E–.08 24 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 03 19.6–.41 37.68N–.04 143.50E–.04 29–2 5.2b,4.5s 557 2-154
NIED III 16 22 03 00 37.60N 143.40E 5 4.7W,4.5s **¶602663617**
IDC III 16 22 03 14.9–.45 37.55N 143.56E 0 4.9,4.9b
NEIC III 16 22 03 18.8–1.3 37.59N 143.48E 22–9 5.1b,4.9b
GCMT III 16 22 03 18.8–.60 37.60N 143.56E 12 4.9W,4.9b
BJI III 16 22 03 19.0 37.58N 143.29E 29 5.2b,5.0b
JMA III 16 22 03 19.1–.30 37.57N 143.41E 57 4.9,5.0b
ISCJB III 16 22 03 20.3–.16 37.73N–.02 143.35E–.02 39 5.0b,4.6s
MOS III 16 22 03 20.7–.83 38.01N 143.38E 33 5.5b,4.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ43.00000°,λ-58.00000°. NP2:ϕ_s171.00000°,δ55.00000°,λ-116.00000°. $M_0$1.46000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=10.7km az=124.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=143.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c11; s72,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.85±.10 $M_{\theta\theta}$0.06±.10; $M_{\phi\phi}$1.79±.07; $M_{r\theta}$-1.00±.39; $M_{\theta\phi}$0.50±.07; $M_{\phi r}$-1.44±.30; Best double couple: NP1:ϕ_s28.00000°,δ67.00000°,λ-79.00000°. NP2:ϕ_s182.00000°,δ26.00000°,λ-114.00000°. Principal axes: T 2.5610,Plg21.0000°,Azm110.0000°; N 0.0250,Plg10.0000°,Azm204.0000°; P -2.5920,Plg67.0000°,Azm318.0000° $M_0$2.57700×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=155.7.
MOS Error ellipse: s-maj=7.0km s-min=4.7km az=93.5.
ISC III 16 22 04 23.7–.73 37.6N–.10 143.6E–.10 35 4.7b 44 5-88
IDC III 16 22 04 18.3–.74 37.55N 143.58E 0 4.8,4.6 **¶16461848**
NEIC III 16 22 04 21.8–3.4 37.58N 143.60E 23–23 4.7b,4.6
ISCJB III 16 22 04 21.7–.49 37.47N–.08 143.5E–.10 33 4.7b,4.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 16 22 07 51.9–.44 38.90N–.05 144.27E–.04 19 4.9b,4.7s 270 2-145
NIED III 16 22 07 00 38.90N 144.30E 5 4.8W,4.7s **¶16478686**
IDC III 16 22 07 48.3–.58 38.79N 144.36E 0 4.6,4.5
BJI III 16 22 07 49.1 38.88N 144.11E 9 5.2b,4.8b
ISCJB III 16 22 07 50.9–.21 38.88N–.03 144.14E–.03 19 4.7b,4.7s
NEIC III 16 22 07 51.9–4.1 38.81N 144.15E 15–25 5.0b,4.7s
GCMT III 16 22 07 51.9–.60 38.87N 144.31E 12 4.8W,4.7s
JMA III 16 22 07 51.1–.30 38.89N 144.28E 50 4.9,4.7s
MOS III 16 22 07 51.5–1.1 38.79N 144.28E 35 5.0b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ38.00000°,λ-89.00000°. NP2:ϕ_s180.00000°,δ52.00000°,λ-91.00000°. $M_0$1.55000×10^{16}
IDC Error ellipse: s-maj=15.1km s-min=12.5km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=164.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.9km az=154.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c11; s85,c110; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.99±.07 $M_{\theta\theta}$0.32±.08; $M_{\phi\phi}$1.67±.07; $M_{r\theta}$-0.15±.39; $M_{\theta\phi}$0.10±.06; $M_{\phi r}$0.29±.36; Best double couple: NP1:ϕ_s180.00000°,δ50.00000°,λ-96.00000°. NP2:ϕ_s8.00000°,δ41.00000°,λ-84.00000°. Principal axes: T 1.6990,Plg4.0000°,Azm274.0000°; N 0.3260,Plg4.0000°,Azm183.0000°; P -2.0240,Plg84.0000°,Azm50.0000° $M_0$1.86200×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=6.6km az=103.6.
ISC III 16 22 08 01.8–.74 38.8N–.10 144.36E–.09 19 4.6b 45 5-118
IDC III 16 22 07 58.6–.73 38.76N 144.35E 0 4.7,4.5 **¶603145373**
ISCJB III 16 22 08 00.1–.64 38.75N–.09 144.3E–.10 19 4.5b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 14 51.6–.39 38.91N–.04 144.24E–.04 25–2 5.1b,4.6s 509 2-154
NIED III 16 22 14 00 39.00N 144.40E 5 4.9W,4.6s **¶16329747**
IDC III 16 22 14 47.4–.41 38.81N 144.35E 0 4.9,4.8
ISCJB III 16 22 14 48.2–.83 38.84N–.02 144.18E–.02 12–5 5.0b,4.5s
JMA III 16 22 14 49.8–.30 38.96N 144.37E 50 5.0,4.5s
MOS III 16 22 14 50.8–.94 38.85N 144.22E 36 5.3b,4.0s
BJI III 16 22 14 50.0 39.00N 144.07E 16 5.2b,5.0b
NEIC III 16 22 14 51.4–.42 38.81N 144.20E 23–2 5.1b,5.0b
GCMT III 16 22 14 51.4–.30 38.93N 144.46E 12 5.0W,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ35.00000°,λ-93.00000°. NP2:ϕ_s185.00000°,δ55.00000°,λ-88.00000°. $M_0$2.16000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=9.6km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=162.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.7km az=115.6.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=147.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c10; s99,c148; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.68±.07 $M_{\theta\theta}$0.16±.07; $M_{\phi\phi}$2.52±.07; $M_{r\theta}$0.07±.40; $M_{\theta\phi}$0.23±.06; $M_{\phi r}$-2.08±.33; Best double couple: NP1:ϕ_s1.00000°,δ64.00000°,λ-94.00000°. NP2:ϕ_s190.00000°,δ26.00000°,λ-82.00000°. Principal axes: T 3.2620,Plg19.0000°,Azm94.0000°; N 0.1570,Plg3.0000°,Azm3.0000°; P -3.4150,Plg70.0000°,Azm263.0000° $M_0$3.33900×10^{16}
ISC III 16 22 16 33.3–1.2 37.5N–.20 143.4E–.30 35 4.2b 8 45-83
IDC III 16 22 16 28.1–1.3 37.50N 143.35E 0 4.3,4.2 **¶17196551**
ISCJB III 16 22 16 31.0–1.2 37.4N–.20 143.4E–.30 33 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 21 30.6–1.7 36.4N–.20 142.3E–.10 15 3.5b 8 1-57
IDC III 16 22 21 26.9–3.0 36.55N 142.64E 0 3.7,3.5 **¶600551586**
JMA III 16 22 21 31.7–.20 36.58N 142.32E 53 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=79.5km s-min=32.0km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 22 23 01.0–.94 36.97N–.07 143.51E–.08 35 3.7b 22 2-89
IDC III 16 22 22 55.5–.98 36.78N 143.71E 0 3.8,3.6 **¶603310078**
JMA III 16 22 22 57.0–.60 37.18N 143.42E 4 4.2,3.6
ISCJB III 16 22 22 59.0–.74 36.92N–.06 143.50E–.06 33 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 27 51.9–1.6 34.90N–.06 141.11E–.08 28–10 3.7b 19 0-59
IDC III 16 22 27 49.4–2.0 34.76N 141.01E 0 3.7,3.5 **¶602663603**
JMA III 16 22 27 50.3–.30 34.92N 141.18E 42–4 3.6,3.5
ISCJB III 16 22 27 50.9–1.2 34.85N–.06 141.14E–.09 33–6 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 28 20.4–.43 37.86N–.06 143.64E–.06 19 4.7b 204 2-148
NIED III 16 22 28 00 38.00N 143.50E 5 4.4W **¶16478693**
IDC III 16 22 28 17.2–.52 37.86N 143.71E 0 4.6,4.5
ISCJB III 16 22 28 18.9–.22 37.88N–.03 143.61E–.03 19 4.6b,4.5
NEIC III 16 22 28 20.9–1.8 37.87N 143.69E 21–12 4.8b,4.5
JMA III 16 22 28 20.1–.40 37.96N 143.50E 23 4.4,4.5
MOS III 16 22 28 20.2–1.0 37.89N 143.70E 29 4.9b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ27.00000°,λ-94.00000°. NP2:ϕ_s214.00000°,δ63.00000°,λ-88.00000°. $M_0$4.58000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.0km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=158.6.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=144.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.7km az=100.6.
ISC III 16 22 32 44.7–.60 36.83N–.06 143.58E–.06 35 4.1b 66 2-89
IDC III 16 22 32 39.8–.76 36.85N 143.69E 0 4.2,4.1 **¶602663597**
JMA III 16 22 32 43.9–.30 36.89N 143.49E 51 4.1,4.1
ISCJB III 16 22 32 43.2–.38 36.81N–.04 143.51E–.04 33 4.2b,4.1s
NEIC III 16 22 32 45.1–.35 36.87N 143.70E 35 4.5b,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=17.3km az=96.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=162.8.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=7.4km az=153.0.
ISC III 16 22 34 36.2–1.4 37.8N–.10 142.3E–.10 14 3.6b 8 2-62
ISCJB III 16 22 34 33.6–1.2 37.79N–.08 142.6E–.10 14 3.5b **¶17196553**
JMA III 16 22 34 34.1–.30 37.88N 142.54E 9 4.2
IDC III 16 22 34 38.9–7.6 37.08N 141.21E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=11.1km az=164.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=282.7km s-min=23.0km az=64.0.
ISC III 16 22 39 08.4–1.2 37.4N–.20 143.2E–.10 35 3.5b 10 4-69
IDC III 16 22 39 03.3–1.3 37.37N 143.27E 0 3.7,3.6 **¶17196554**
ISCJB III 16 22 39 06.3–1.1 37.4N–.10 143.2E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 41 53.2–.79 38.81N–.07 144.29E–.07 19 3.8b 35 2-87
IDC III 16 22 41 49.5–1.0 38.66N 144.46E 0 3.9,3.8 **¶17196555**
ISCJB III 16 22 41 52.2–.63 38.87N–.05 144.23E–.05 19 3.7b,3.8
JMA III 16 22 41 53.1–.30 38.85N 144.28E 50 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=24.8km s-min=19.6km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.4km az=156.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 16 22 48 00.7–2.9 39.95N 144.71E 0 3.9,3.7
¶17196558
IDC Error ellipse: s-maj=71.3km s-min=29.5km az=176.0.
ISC III 16 22 50 37.5–.69 38.67N–.05 143.99E–.07 14 4.0b 38 2-88
IDC III 16 22 50 34.9–.77 38.54N 144.19E 0 4.2,4.1 **¶17196559**
ISCJB III 16 22 50 35.8–.53 38.63N–.04 143.98E–.05 14 3.9b,4.1
JMA III 16 22 50 38.5–.40 38.70N 143.98E 44 4.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=16.9km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.8km az=175.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 16 22 54 57.6–.71 37.4N–.10 142.40E–.08 21 4.4b 41 2-146
NIED III 16 22 54 00 37.40N 142.30E 11 4.0W **¶16478702**
IDC III 16 22 54 54.1–.69 37.30N 142.42E 0 4.2,4.0
ISCJB III 16 22 54 55.6–.37 37.27N–.06 142.47E–.06 21 4.4b,4.0
JMA III 16 22 54 56.1–.30 37.37N 142.32E 15 4.5,4.0
NEIC III 16 22 54 59.3–.25 37.30N 142.49E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ35.00000°,λ-86.00000°. NP2:ϕ_s198.00000°,δ55.00000°,λ-93.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=20.2km s-min=18.8km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.2km az=11.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.6km az=156.0.
ISC III 16 22 57 52.4–.77 37.60N–.07 142.17E–.08 24 4.0b 19 1-146
NIED III 16 22 57 00 37.70N 142.00E 23 3.9W **¶600551647**
IDC III 16 22 57 48.7–.76 37.59N 142.24E 0 4.1,4.0
ISCJB III 16 22 57 50.4–.61 37.58N–.05 142.21E–.07 24 3.9b,4.0
JMA III 16 22 57 52.7–.30 37.65N 142.05E 16–4 4.0,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ32.00000°,λ17.00000°. NP2:ϕ_s116.00000°,δ81.00000°,λ121.00000°. $M_0$8.43000×10^{14}
IDC Error ellipse: s-maj=22.0km s-min=15.1km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.7km az=32.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 16 23 00 12.7–.93 39.5N–.10 144.8E–.10 38 3.8b 13 6-87
IDC III 16 23 00 07.2–.96 39.54N 144.82E 0 3.9,3.7 **¶603049868**
ISCJB III 16 23 00 11.0–.83 39.5N–.10 144.7E–.10 38 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 16 23 05 21.2–.20 39.32N 143.05E 8–2 3.6
¶602663542
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 16 23 09 39.7–.40 37.58N 143.34E 0 3.6
¶603049869
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC III 16 23 10 36.9–1.4 37.47N 143.98E 0 3.7,3.5
¶17196564
IDC Error ellipse: s-maj=39.5km s-min=31.6km az=90.0.
ISC III 16 23 18 17.6–1.4 38.4N–.10 144.5E–.10 29 3.6b 14 3-59
IDC III 16 23 18 12.6–1.7 38.34N 144.67E 0 4.7,4.7s **¶17196565**
ISCJB III 16 23 18 15.9–1.1 38.4N–.10 144.50E–.10 29 4.7s,3.6b
JMA III 16 23 18 18.3–.30 38.44N 144.37E 47 3.8,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=38.8km s-min=26.9km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=10.9km az=178.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 23 23 28.2–3.3 37.4N–.20 142.2E–.20 10 3.4b 6 1-58
IDC III 16 23 23 22.2–2.7 37.35N 143.28E 0 3.5,3.4b **¶17196566**
JMA III 16 23 23 27.1–.60 37.51N 142.30E 14 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=71.5km s-min=31.1km az=65.0.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 16 23 24 40.0–1.0 37.7N–.10 143.48E–.09 35 3.6b 16 2-76
IDC III 16 23 24 34.5–1.1 37.58N 143.70E 0 4.0,3.7 **¶17196567**
ISCJB III 16 23 24 38.0–.82 37.61N–.08 143.50E–.07 33 3.6b,3.7
JMA III 16 23 24 38.9–.30 37.57N 143.41E 42 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.5km s-min=25.4km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.5km az=177.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 16 23 28 13.5–.40 39.14N 143.29E 0 3.9
¶602663481
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 16 23 29 19.6–.51 37.63N–.06 143.15E–.06 24 4.5b 90 2-89
IDC III 16 23 29 16.2–.75 37.67N 143.17E 0 4.3,4.2 **¶16478713**
ISCJB III 16 23 29 17.8–.32 37.64N–.04 143.11E–.05 24 4.5b,4.2
NEIC III 16 23 29 17.6–3.5 37.67N 143.22E 10–22 4.8b,4.2
JMA III 16 23 29 19.8–.50 37.63N 142.99E 45 4.3,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=15.4km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.5km az=143.7.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.5km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
JMA III 16 23 41 05.9–.10 37.65N 142.06E 19–3 4.1
¶602663473
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 16 23 54 15.7–.30 36.94N 142.33E 35 3.5
¶602663463
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 17 00 08 59.9–.46 37.85N–.06 144.02E–.05 35 4.5b 142 3-153
NIED III 17 00 08 00 37.80N 143.80E 8 4.4W **¶16461874**
NEIC III 17 00 08 56.6–2.9 37.71N 143.98E 11–17 4.6b
JMA III 17 00 08 58.8–.20 37.84N 143.83E 42 4.4
MOS III 17 00 08 59.2–1.1 37.99N 143.87E 33 4.5b
ISCJB III 17 00 08 59.1–.33 37.95N–.03 143.87E–.03 33 4.5b

IDC III 17 00 09 00.6–.52 37.67N 143.98E 40–3 4.3,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ38.00000°,λ-34.00000°. NP2:ϕ_s157.00000°,δ70.00000°,λ-123.00000°. $M_0$4.91000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=4.7km az=149.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.6km az=93.4.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.6km az=166.9.
IDC Error ellipse: s-maj=13.6km s-min=10.6km az=157.0.
ISC III 17 00 21 09.7–1.5 37.79N–.07 142.5E–.10 14 3.6b 14 1-62
IDC III 17 00 21 06.8–2.3 37.82N 143.08E 0 3.7,3.6b **¶17196573**
ISCJB III 17 00 21 08.0–1.1 37.79N–.06 142.6E–.10 14 3.5b,3.6b
JMA III 17 00 21 09.4–.30 37.82N 142.56E 22 4.0,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=67.1km s-min=25.8km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.0km az=178.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 17 00 29 06.7–.20 39.40N 143.51E 23 4.2 ¶17196576
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 17 00 29 43.5–.88 39.4N–.10 144.8E–.10 23 3.8b 14 6-87
ISCJB III 17 00 29 41.7–.80 39.4N–.10 144.7E–.10 23 3.8b **¶603049870**
IDC III 17 00 29 44.6–.95 39.41N 144.68E 30–5 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=16.7km az=4.5.
IDC Error ellipse: s-maj=24.5km s-min=18.2km az=73.0.
ISC III 17 00 42 50.0–.36 37.41N–.04 143.68E–.04 27–2 4.9b,4.4s 484 2-149
NIED III 17 00 42 00 37.40N 143.60E 5 4.7W,4.4s **¶16329752**
ISCJB III 17 00 42 46.2–.84 37.37N–.02 143.64E–.02 12–5 4.8b,4.5s
BJI III 17 00 42 47.5 37.53N 143.76E 26 5.1b,4.8b
JMA III 17 00 42 48.6–.30 37.37N 143.62E 55 4.8,4.8b
MOS III 17 00 42 49.9–1.0 37.49N 143.64E 34 5.1b,4.8b
GCMT III 17 00 42 50.2–.40 37.42N 143.60E 12 4.8W,4.8b
NEIC III 17 00 42 50.2–1.5 37.34N 143.68E 29–10 5.0b,4.8b
IDC III 17 00 42 51.1–.42 37.32N 143.77E 39–3 4.6,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ39.00000°,λ-88.00000°. NP2:ϕ_s202.00000°,δ51.00000°,λ-91.00000°. $M_0$1.32000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.4km az=114.2.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c10; s78,c111; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.03±.07 $M_{\theta\theta}$0.57±.08; $M_{\phi\phi}$1.45±.07; $M_{r\theta}$-0.88±.36; $M_{\theta\phi}$0.71±.06; $M_{\phi r}$0.76±.31; Best double couple: NP1:ϕ_s186.00000°,δ53.00000°,λ-119.00000°. NP2:ϕ_s49.00000°,δ45.00000°,λ-57.00000°. Principal axes:
T 1.8630,Plg4.0000°,Azm296.0000°; N 0.6560,Plg23.0000°,Azm204.0000°
; P -2.5240,Plg67.0000°,Azm36.0000° $M_0$2.19300×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.4km az=133.0.
IDC Error ellipse: s-maj=11.5km s-min=9.8km az=102.0.
ISC III 17 00 43 02.6–2.5 36.2N–.40 143.8E–.20 35 4.5b 8 4-77
IDC III 17 00 42 54.5–3.6 35.71N 143.87E 0 4.7,4.6 **¶17196579**
ISCJB III 17 00 43 01.2–2.2 36.3N–.40 143.7E–.20 33 4.4b,4.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 00 48 09.0–.20 37.57N 142.47E 40 3.5 ¶602668691
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 00 50 35.1–1.2 37.4N–.20 143.7E–.10 35 3.8b 9 5-61
IDC III 17 00 50 29.9–1.1 37.41N 143.73E 0 3.9s,3.9 **¶16478745**
ISCJB III 17 00 50 32.7–.95 37.4N–.10 143.8E–.10 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 00 54 14.2–.84 37.37N–.10 143.60E–.08 35 3.9b 34 2-82
IDC III 17 00 54 08.7–.88 37.35N 143.80E 0 4.1,3.9 **¶16478747**
ISCJB III 17 00 54 11.9–.57 37.34N–.07 143.65E–.06 33 3.9b,3.9
JMA III 17 00 54 12.9–.20 37.34N 143.56E 45 4.3,3.9
NEIC III 17 00 54 14.0–.59 37.39N 143.70E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=19.0km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.3km az=169.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.2km az=85.0.
ISC III 17 00 54 26.2–1.3 37.3N–.20 143.7E–.20 35 3.8b 7 4-58
IDC III 17 00 54 20.8–1.3 37.25N 143.84E 0 4.1,3.9 **¶17196584**
ISCJB III 17 00 54 23.8–1.2 37.3N–.20 143.7E–.20 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 00 54 44.1–1.6 37.4N–.20 142.9E–.20 24 4.0b 8 4-83
IDC III 17 00 54 40.2–1.7 37.42N 142.97E 0 4.1,4.0 **¶17196587**
ISCJB III 17 00 54 42.0–1.5 37.4N–.20 143.0E–.20 24 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 01 01 60.0–.79 37.42N–.09 143.73E–.09 35 3.9b 36 3-75
NEIC III 17 01 01 55.6–4.6 37.43N 143.89E 7–27 4.3b **¶16427638**
ISCJB III 17 01 01 57.6–.66 37.40N–.07 143.73E–.08 33 4.0b
JMA III 17 01 01 59.3–.20 37.37N 143.53E 63 4.1
IDC III 17 01 02 00.6–.77 37.37N 143.75E 40–6 4.0,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=9.0km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=7.5km az=135.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=19.2km s-min=13.8km az=85.0.
ISC III 17 01 02 20.2–2.0 37.5N–.20 142.8E–.20 24 3.9b 7 4-61
IDC III 17 01 02 16.4–2.2 37.44N 142.95E 0 4.1,4.0 **¶17196591**
ISCJB III 17 01 02 18.1–1.5 37.4N–.20 142.9E–.30 24 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 01 05 28.3–.54 38.91N–.06 144.27E–.07 23–2 4.2b,3.7s 73 2-87
NEIC III 17 01 05 25.4–3.5 38.77N 144.36E 8–21 4.8b,3.7s **¶602668661**
ISCJB III 17 01 05 27.5–2.1 38.91N–.06 144.20E–.07 28–14 4.2b,3.8s
IDC III 17 01 05 28.8–.48 38.72N 144.29E 31–2 4.2,4.2
JMA III 17 01 05 29.4–.30 39.02N 144.15E 50 4.2,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.2km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.4km az=139.8.
IDC Error ellipse: s-maj=12.3km s-min=11.9km az=157.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 17 01 08 01.9–.46 36.43N–.05 142.88E–.05 27–2 4.6b,4.4s 198 2-146
BJI III 17 01 07 57.1 36.37N 142.84E 7 5.1b,4.6b **¶602668650**
ISCJB III 17 01 07 57.5–1.3 36.39N–.04 142.82E–.03 9–7 4.6b,4.3s
MOS III 17 01 08 00.9–1.3 36.48N 142.86E 33 4.9b,4.3s
NIED III 17 01 08 00 36.40N 142.60E 5 4.3W,4.3s
JMA III 17 01 08 00.6–.30 36.36N 142.64E 12 4.3,4.3s
IDC III 17 01 08 02.9–.58 36.27N 142.91E 39–3 4.4,4.3
NEIC III 17 01 08 02.8–.32 36.29N 142.78E 35 4.9b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.7km az=164.9.
MOS Error ellipse: s-maj=10.5km s-min=6.4km az=112.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ38.00000°,λ-94.00000°. NP2:ϕ_s221.00000°,δ52.00000°,λ-87.00000°. $M_0$2.82000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=12.5km az=169.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.5km az=165.0.
ISC III 17 01 33 04.0–.89 37.81N–.06 144.40E–.07 35 3.8b 30 3-88
IDC III 17 01 32 59.1–.85 37.51N 144.68E 0 4.1,3.8 **¶17196594**
JMA III 17 01 33 02.7–.40 37.81N 144.37E 49 4.2,3.8
ISCJB III 17 01 33 02.7–.71 37.87N–.04 144.35E–.05 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 01 37 05.4–1.7 37.26N–.09 142.3E–.10 21 14 1-57
NIED III 17 01 37 00 37.20N 142.40E 17 3.7W **¶602669048**
IDC III 17 01 37 00.3–2.6 37.38N 142.83E 0 3.7,3.6L
ISCJB III 17 01 37 02.9–1.4 37.22N–.09 142.6E–.10 21 3.5b,3.6L
JMA III 17 01 37 03.1–.40 37.18N 142.39E 14 4.1,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s322.00000°,δ61.00000°,λ156.00000°. NP2:ϕ_s65.00000°,δ69.00000°,λ32.00000°. $M_0$3.64000×10^{14}
IDC Error ellipse: s-maj=53.3km s-min=35.3km az=41.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=12.5km az=138.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 01 41 51.4–1.3 37.3N–.10 142.3E–.10 10 3.3b 8 1-57
JMA III 17 01 41 47.4–.40 37.24N 142.45E 0 4.1 **¶602669038**
ISCJB III 17 01 41 49.0–1.2 37.2N–.20 142.47E–.10 10 3.4b
IDC III 17 01 41 49.7–1.6 37.08N 142.48E 0 3.7,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=11.1km az=173.2.
IDC Error ellipse: s-maj=38.2km s-min=33.1km az=127.0.
ISC III 17 01 43 21.0–.79 38.97N–.07 144.31E–.07 19 3.8b 25 2-87
IDC III 17 01 43 17.3–.82 38.74N 144.48E 0 4.4s,4.4 **¶17196597**
ISCJB III 17 01 43 19.7–.72 39.03N–.05 144.28E–.06 19 4.3s,3.8b
JMA III 17 01 43 21.8–.30 39.04N 144.24E 45 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=28.7km s-min=19.5km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.5km az=160.7.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 17 01 45 28.3–.94 39.00N–.07 144.35E–.08 19 3.7b 20 2-75
IDC III 17 01 45 24.9–.94 38.73N 144.57E 0 3.9,3.7 **¶602669033**
ISCJB III 17 01 45 27.2–.82 39.02N–.06 144.27E–.07 19 3.7b,2.5s
JMA III 17 01 45 29.4–.30 39.11N 144.27E 52 3.9,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=27.9km s-min=20.8km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.5km az=150.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 17 01 46 23.2–.50 38.00N 143.63E 41 3.8 ¶17196598
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
JMA III 17 01 51 24.7–.40 36.87N 142.44E 39 3.5 ¶602669025
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
JMA III 17 01 52 35.5–.50 38.87N 144.22E 13 4.0 ¶602669024
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 17 02 15 13.3–2.2 38.52N–.08 144.5E–.10 29 3.5b 27 3-59
IDC III 17 02 15 06.5–2.7 38.38N 144.92E 0 3.9,3.8 **¶602668942**
JMA III 17 02 15 11.3–.20 38.51N 144.52E 41 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=67.3km s-min=30.9km az=65.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 17 02 15 46.6–.60 37.30N 143.30E 29 3.8 ¶17196603
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
JMA III 17 02 22 57.0–.40 37.50N 142.51E 5 3.5 ¶602668920
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 17 02 38 00.4–3.9 36.68N–.05 142.18E–.07 25–27 4.5b 84 1-146
NIED III 17 02 37 00 36.80N 142.10E 20 4.5W **¶16392113**
JMA III 17 02 37 59.1–.40 36.75N 142.15E 24–5 4.4
ISCJB III 17 02 38 00.6–.98 36.69N–.04 142.14E–.07 40–7 5.0s,4.3b
NEIC III 17 02 38 01.3–2.5 36.69N 142.14E 31–16 4.7b,4.3b
IDC III 17 02 38 02.8–2.4 36.63N 142.09E 44–21 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ18.00000°,λ86.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ91.00000°. $M_0$5.52000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.6km az=14.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.9km az=122.0.
IDC Error ellipse: s-maj=18.0km s-min=13.8km az=111.0.
ISC III 17 03 12 56.4–.89 39.5N–.10 143.4E–.10 11 3.8b 13 5-73
ISCJB III 17 03 12 54.3–.73 39.4N–.10 143.3E–.10 11 3.7b **¶603049871**
IDC III 17 03 12 54.5–.79 39.44N 143.36E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=14.3km az=136.3.
IDC Error ellipse: s-maj=20.8km s-min=19.0km az=94.0.
ISC III 17 03 19 11.1–1.0 38.96N–.07 144.31E–.08 19 4.3b 51 2-82
ISCJB III 17 03 19 10.1–.59 39.01N–.04 144.23E–.05 19 4.6s,4.2b **¶16427643**
JMA III 17 03 19 10.6–.20 38.99N 144.32E 45 4.2,4.2b
IDC III 17 03 19 12.4–1.1 39.35N 143.76E 0 4.6,4.6s
NEIC III 17 03 19 13.9–4.3 39.27N 143.63E 10–26 4.7b,4.6s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.5km az=44.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=26.6km s-min=20.7km az=134.0.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=9.6km az=125.0.
ISC III 17 03 50 53.6–.88 36.37N–.04 142.89E–.04 21–4 5.2b,4.8s 973 2-154
NIED III 17 03 50 00 36.40N 142.80E 5 4.9W,4.8s **¶600552216**
IDC III 17 03 50 50.1–.40 36.31N 142.90E 0 4.9,4.8
NEIC III 17 03 50 52.0–2.1 36.31N 142.89E 13–12 5.2b,4.8
ISCJB III 17 03 50 53.3–.10 36.35N–.02 142.81E–.02 29 5.1b,4.8s
BJI III 17 03 50 54.2 36.47N 142.45E 21 5.4b,4.9b
JMA III 17 03 50 54.1–.20 36.36N 142.77E 64 4.9,4.9b
MOS III 17 03 50 56.1–.82 36.76N 142.75E 33 5.4b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ36.00000°,λ-98.00000°. NP2:ϕ_s223.00000°,δ54.00000°,λ-84.00000°. $M_0$2.90000×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=10.2km az=93.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=1.8km az=164.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.2km s-min=4.1km az=117.5.
ISC III 17 04 21 00.8–.72 37.04N–.09 143.44E–.07 35 4.2b 38 2-145
IDC III 17 04 20 55.4–.67 37.03N 143.58E 0 4.4,4.2 **¶16427646**
ISCJB III 17 04 20 58.8–.53 37.01N–.06 143.43E–.05 33 4.1b,3.8s
JMA III 17 04 20 59.9–.20 37.08N 143.37E 55 4.4,3.8s
NEIC III 17 04 21 00.8–1.5 37.02N 143.53E 35–13 4.3b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=16.8km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.7km az=169.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.3km az=103.0.
ISC III 17 04 29 33.3–.98 37.88N–.06 142.48E–.09 14 3.9b 23 2-74
IDC III 17 04 29 31.5–.93 37.78N 142.20E 0 3.9,3.8 **¶602668508**
JMA III 17 04 29 34.6–.40 37.85N 142.72E 20 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=19.6km az=63.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 04 43 11.8–1.2 37.6N–.20 144.6E–.20 35 3.7b 7 5-75
IDC III 17 04 43 06.5–1.1 37.59N 144.80E 0 4.2,4.2s **¶17196614**
ISCJB III 17 04 43 09.8–1.0 37.5N–.20 144.5E–.20 33 3.7b,4.2s
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 04 47 15.4–.72 38.15N–.07 144.10E–.06 35 3.9b 43 3-88
IDC III 17 04 47 09.6–.70 37.91N 144.12E 0 4.0,3.9 **¶16427648**
JMA III 17 04 47 13.9–.40 38.26N 143.93E 9 4.5,3.9
ISCJB III 17 04 47 13.4–.54 38.11N–.05 144.08E–.05 33 3.9b,3.9
NEIC III 17 04 47 15.0–.44 37.99N 143.97E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=17.2km az=120.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.5km az=21.8.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.6km az=125.0.

ISC III 17 04 54 24.5–.95 38.0N–.20 144.5E–.10 35 3.3b 9 5-88
IDC III 17 04 54 19.2–.92 37.95N 144.56E 0 3.8,3.6L ¶17196616
ISCJB III 17 04 54 22.4–.80 37.9N–.20 144.5E–.10 33 3.4b,3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 04 57 31.7–1.1 36.8N–.20 143.6E–.10 35 3.8b 9 4-89
IDC III 17 04 57 26.4–1.1 36.77N 143.74E 0 3.9,3.7b ¶17196617
ISCJB III 17 04 57 29.6–.99 36.7N–.20 143.60E–.10 33 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 05 07 00.1–.52 38.01N–.04 143.54E–.04 26–2 5.0b,4.8s 414 2-153
NIED III 17 05 06 00 38.00N 143.60E 32 5.3W,4.8s ¶16329763
IDC III 17 05 06 55.5–.52 37.91N 143.70E 0 4.8,4.7
ISCJB III 17 05 06 56.8–.83 38.06N–.03 143.47E–.02 10–5 5.0b,4.8s
JMA III 17 05 06 57.5–.40 37.96N 143.60E 43 5.2,4.8s
GCMT III 17 05 06 59.9–.20 38.02N 143.55E 21–1 5.3W,4.8s
NEIC III 17 05 06 59.9–1.4 38.02N 143.52E 21–9 5.2b,4.8s
MOS III 17 05 07 00.9–.95 38.25N 143.45E 33 5.2b,4.6s
BJI III 17 05 07 00.9 38.15N 143.10E 25 5.4b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ77.00000°,λ-1.00000°. NP2:ϕ_s150.00000°,δ89.00000°,λ-167.00000°. $M_0$9.48000×10^{16}
IDC Error ellipse: s-maj=14.3km s-min=11.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=2.6km az=162.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c26; s108,c168; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.01±.04 $M_{\theta\theta}$-0.75±.03; $M_{\phi\phi}$0.74±.03; $M_{r\theta}$-0.21±.06; $M_{\theta\phi}$0.61±.02; $M_{\phi r}$0.50±.07; Best double couple: NP1:ϕ_s334.00000°,δ89.00000°,λ151.00000°. NP2:ϕ_s65.00000°,δ61.00000°,λ1.00000°. Principal axes: T 1.1100,Plg21.0000°,Azm286.0000°; N -0.0180,Plg61.0000°,Azm153.0000° ; P -1.0920,Plg19.0000°,Azm24.0000° $M_0$1.10100×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=150.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=102.3.
IDC III 17 05 17 52.1–1.1 37.97N 143.99E 0 4.5,4.5s
¶17196620
IDC Error ellipse: s-maj=55.5km s-min=21.5km az=118.0.
ISC III 17 05 41 22.1–1.3 38.1N–.20 144.4E–.20 35 3.8b 8 5-62
IDC III 17 05 41 16.9–1.3 38.11N 144.61E 0 3.7,3.6 ¶17196623
ISCJB III 17 05 41 19.7–1.2 38.0N–.20 144.5E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 05 43 51.7–1.1 37.98N 143.99E 0 4.0,3.7
¶17196624
IDC Error ellipse: s-maj=31.7km s-min=23.9km az=89.0.
IDC III 17 05 51 41.0–6.3 36.73N 144.52E 0 3.9,3.8
¶17196629
IDC Error ellipse: s-maj=151.6km s-min=32.5km az=165.0.
IDC III 17 05 52 39.7–1.4 38.04N 144.20E 0 3.9,3.7b
¶17196632
IDC Error ellipse: s-maj=41.1km s-min=29.4km az=124.0.
IDC III 17 05 56 01.2–1.4 37.14N 144.07E 0 3.8,3.6
¶17196633
IDC Error ellipse: s-maj=33.6km s-min=25.4km az=120.0.
ISC III 17 05 59 05.6–.83 39.1N–.10 144.6E–.10 19 3.8b 16 6-87
ISCJB III 17 05 59 03.4–.69 39.1N–.10 144.5E–.10 19 3.8b ¶17196635
IDC III 17 05 59 07.4–.97 39.07N 144.56E 34–6 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=13.1km az=139.6.
IDC Error ellipse: s-maj=22.9km s-min=17.2km az=133.0.
ISC III 17 06 12 42.8–.32 37.78N–.03 143.42E–.03 25–1 5.5b,5.3s 1254 2-163
NIED III 17 06 12 00 37.70N 143.50E 8 5.6W,5.3s ¶16329765
IDC III 17 06 12 38.6–.31 37.70N 143.52E 0 5.2,5.2
ISCJB III 17 06 12 38.3–.71 37.74N–.02 143.44E–.02 6–4 5.4b,5.3s
JMA III 17 06 12 40.4–.40 37.75N 143.51E 42 5.7,5.3s
GCMT III 17 06 12 41.5–.10 37.79N 143.46E 12 5.6W,5.3s
NEIC III 17 06 12 41.5–1.4 37.71N 143.44E 16–8 5.5b,5.2s
MOS III 17 06 12 41.6–.85 37.72N 143.45E 33 5.7b,5.5s
BJI III 17 06 12 43.8 37.82N 142.86E 25 5.8s,5.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ23.00000°,λ-97.00000°. NP2:ϕ_s202.00000°,δ68.00000°,λ-87.00000°. $M_0$2.47000×10^{17}
IDC Error ellipse: s-maj=10.0km s-min=8.4km az=97.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=158.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s79,c127; s127,c293;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.96±.03 $M_{\theta\theta}$0.24±.02; $M_{\phi\phi}$1.72±.02; $M_{r\theta}$0.81±.09; $M_{\theta\phi}$0.58±.02; $M_{\phi r}$1.95±.08; Best double couple: NP1:ϕ_s202.00000°,δ69.00000°,λ-88.00000°. NP2:ϕ_s17.00000°,δ21.00000°,λ-95.00000°. Principal axes: T 2.8450,Plg24.0000°,Azm290.0000°; N 0.0430,Plg2.0000°,Azm21.0000° ; P -2.8880,Plg66.0000°,Azm115.0000° $M_0$2.86700×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=134.0.
MOS Error ellipse: s-maj=6.8km s-min=4.9km az=108.8.
ISC III 17 06 17 41.8–1.1 39.7N–.20 144.5E–.10 23 4.0b 7 6-87
IDC III 17 06 17 38.3–1.1 39.70N 144.57E 0 4.2,3.9 ¶17196638
ISCJB III 17 06 17 40.0–.00 39.7N–.10 144.4E–.20 23 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 06 19 42.4–.55 37.68N–.05 143.47E–.06 24–3 4.5b 114 2-149
ISCJB III 17 06 19 39.6–1.4 37.71N–.03 143.42E–.04 17–10 4.5b ¶16339104
JMA III 17 06 19 40.3–.30 37.74N 143.47E 35 4.7
NEIC III 17 06 19 43.5–.24 37.61N 143.48E 35 4.7b
IDC III 17 06 19 43.2–.67 37.57N 143.51E 35–4 4.4,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=37.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=145.0.
IDC Error ellipse: s-maj=13.2km s-min=11.4km az=138.0.
JMA III 17 06 21 24.2–.40 37.43N 142.44E 7 4.1
¶602668080
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 06 24 30.0–.49 37.28N–.03 142.18E–.04 19–2 5.3b,5.1s 964 1-154
NIED III 17 06 24 00 37.30N 142.10E 26 5.1W,5.1s ¶16329767
IDC III 17 06 24 26.7–.33 37.25N 142.19E 0 5.1,5.1
ISCJB III 17 06 24 27.1–.94 37.25N–.02 142.12E–.02 9–5 5.2b,5.1s
BJI III 17 06 24 27.4 37.14N 142.14E 18 5.5b,5.4s
JMA III 17 06 24 29.8–.20 37.26N 142.09E 32–4 5.2,5.4s
MOS III 17 06 24 32.5–.78 37.64N 142.03E 33 5.4b,5.4s
NEIC III 17 06 24 33.4–.32 37.26N 142.07E 41–3 5.3b,5.4s
GCMT III 17 06 24 33.4–.30 37.28N 142.02E 21–2 5.2W,5.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ12.00000°,λ166.00000°. NP2:ϕ_s282.00000°,δ87.00000°,λ78.00000°. $M_0$5.00000×10^{16}
IDC Error ellipse: s-maj=10.6km s-min=7.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=153.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=98.5.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=136.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s7,c7; s82,c110; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.17±.42 $M_{\theta\theta}$-2.18±.25; $M_{\phi\phi}$-0.99±.24; $M_{r\theta}$-7.55±1.13; $M_{\theta\phi}$-0.25±.13; $M_{\phi r}$1.45±.40; Best double couple: NP1:ϕ_s280.00000°,δ81.00000°,λ93.00000°. NP2:ϕ_s81.00000°,δ10.00000°,λ71.00000°. Principal axes: T 8.6880,Plg54.0000°,Azm194.0000°; N -1.1140,Plg3.0000°,Azm99.0000° ; P -7.5770,Plg36.0000°,Azm7.0000° $M_0$8.13200×10^{16}
ISC III 17 06 39 51.7–.83 38.03N–.08 144.34E–.09 35 3.8b 23 4-75
IDC III 17 06 39 46.0–.77 37.88N 144.39E 0 4.1,3.9 ¶16478719
ISCJB III 17 06 39 49.0–.60 37.87N–.08 144.37E–.07 33 3.9b,3.9
NEIC III 17 06 39 49.9–3.8 37.89N 144.33E 25–26 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=17.9km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=6.7km az=153.8.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=8.1km az=115.0.
ISC III 17 06 42 45.0–.35 38.72N–.04 144.02E–.04 31–2 5.3b,4.8s 584 2-160
NIED III 17 06 42 00 38.80N 144.00E 5 5.0W,4.8s ¶602668042
JMA III 17 06 42 43.4–.30 38.83N 144.02E 55 4.9,4.8s
BJI III 17 06 42 43.1 38.80N 143.80E 22 5.6b,5.1b
MOS III 17 06 42 44.8–.96 38.87N 143.87E 33 5.4b,5.1b
NEIC III 17 06 42 45.8–.54 38.67N 143.93E 35–5 5.2b,5.1b
GCMT III 17 06 42 45.8–.30 38.68N 144.02E 16–1 5.2W,5.1b
ISCJB III 17 06 42 45.1–.14 38.74N–.02 143.87E–.02 41 5.2b,4.8s
IDC III 17 06 42 46.1–.44 38.64N 143.98E 41–3 4.9,4.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ37.00000°,λ-74.00000°. NP2:ϕ_s1.00000°,δ55.00000°,λ-101.00000°. $M_0$3.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.0km s-min=4.0km az=107.5.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.7km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c29; s93,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.14±.37 $M_{\theta\theta}$1.38±.21; $M_{\phi\phi}$4.76±.23; $M_{r\theta}$-3.10±.76; $M_{\theta\phi}$1.00±.13; $M_{\phi r}$-2.24±.57; Best double couple: NP1:ϕ_s34.00000°,δ61.00000°,λ-75.00000°. NP2:ϕ_s185.00000°,δ32.00000°,λ-115.00000°. Principal axes: T 5.8550,Plg15.0000°,Azm113.0000°; N 1.6600,Plg13.0000°,Azm207.0000° ; P -7.5150,Plg70.0000°,Azm335.0000° $M_0$6.68500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.3km az=150.1.
IDC Error ellipse: s-maj=10.1km s-min=8.4km az=129.0.
ISC III 17 06 48 19.9–.50 38.75N–.05 144.02E–.06 29–2 4.5b 85 2-153
JMA III 17 06 48 18.8–.30 38.81N 144.01E 43 5.1 ¶16461882
ISCJB III 17 06 48 19.9–.39 38.77N–.03 143.92E–.04 44 4.4b
NEIC III 17 06 48 20.5–.82 38.64N 144.06E 36–7 4.8b
IDC III 17 06 48 21.5–.52 38.66N 143.98E 43–4 4.6,4.6s
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=44.7.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=103.0.
IDC Error ellipse: s-maj=13.9km s-min=11.3km az=119.0.
ISC III 17 07 00 09.3–.38 38.77N–.04 143.96E–.04 23 4.6b,4.6s 265 2-153
IDC III 17 07 00 05.1–.54 38.62N 144.06E 0 4.4,4.3 ¶16339106
JMA III 17 07 00 08.2–.40 38.75N 143.97E 36 4.8,4.3
ISCJB III 17 07 00 08.3–.21 38.79N–.03 143.86E–.03 23 4.6b,4.6s
NEIC III 17 07 00 09.6–1.7 38.69N 143.91E 24–12 4.9b,4.6s
MOS III 17 07 00 10.1–1.0 38.87N 143.79E 33 4.9b,4.6s
BJI III 17 07 00 12.2 38.95N 143.53E 40 5.3b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.3km az=158.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.7km az=155.1.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=139.0.
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=104.6.
ISC III 17 07 03 40.5–3.1 37.37N–.05 142.66E–.05 0–18 4.6b 131 2-154
NIED III 17 07 03 00 37.40N 142.50E 20 4.4W ¶16339107
IDC III 17 07 03 40.2–.51 37.40N 142.73E 0 4.5,4.4
JMA III 17 07 03 40.0–.20 37.43N 142.55E 0 4.7,4.4
ISCJB III 17 07 03 42.1–1.4 37.38N–.03 142.64E–.04 21–10 4.5b,4.4
NEIC III 17 07 03 45.0–1.9 37.40N 142.70E 28–13 4.7b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ36.00000°,λ-101.00000°. NP2:ϕ_s222.00000°,δ55.00000°,λ-82.00000°. $M_0$4.64000×10^{15}
IDC Error ellipse: s-maj=13.4km s-min=12.1km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.6km az=137.1.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.7km az=122.0.
IDC III 17 07 09 45.0–2.7 37.85N 143.97E 0 3.9,3.8b
¶17196643
IDC Error ellipse: s-maj=70.2km s-min=30.0km az=68.0.
ISC III 17 07 22 20.3–1.1 37.6N–.20 143.5E–.20 35 3.8b 8 4-76
IDC III 17 07 22 15.2–.95 37.57N 143.62E 0 3.8,3.6 ¶17196645
ISCJB III 17 07 22 18.2–.88 37.5N–.10 143.5E–.20 33 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 07 31 29.1–.20 40.16N 143.42E 0 3.9
¶602668034
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 17 07 33 30.0–.98 38.3N–.20 144.7E–.10 29 3.6b 10 5-75
IDC III 17 07 33 25.8–1.1 38.34N 144.69E 0 3.9,3.7 ¶17196646
ISCJB III 17 07 33 28.2–.83 38.4N–.10 144.6E–.10 29 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 07 36 19.1–.30 38.78N 144.04E 48 3.6
¶602668022
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 17 07 43 29.4–3.8 36.23N–.06 142.03E–.07 2–23 3.8b 29 1-147
IDC III 17 07 43 29.1–.69 36.19N 142.09E 0 4.0,3.8 ¶602667992
JMA III 17 07 43 31.7–.30 36.31N 142.03E 18 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=17.0km az=122.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 17 07 48 00.7–.66 38.77N–.05 143.98E–.06 23 4.1b 58 2-144
IDC III 17 07 47 56.5–.82 38.60N 143.97E 0 4.1,4.0 ¶602667989
ISCJB III 17 07 47 58.9–.46 38.76N–.04 143.96E–.04 23 4.1b,4.0
NEIC III 17 07 47 59.1–4.2 38.70N 143.99E 14–25 4.4b,4.0
JMA III 17 07 48 00.3–.30 38.78N 143.99E 63 4.6,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=18.6km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=145.7.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=8.7km az=106.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 17 07 51 01.9–.70 36.80N–.05 143.40E–.07 35 3.8b 36 2-145
IDC III 17 07 50 56.7–.73 36.62N 143.67E 0 4.0,3.8 ¶17196648
JMA III 17 07 51 00.9–.30 36.78N 143.32E 83 3.8,3.8
ISCJB III 17 07 51 00.0–.54 36.76N–.04 143.38E–.04 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 07 55 15.1–.98 38.3N–.20 144.8E–.20 43 3.7b 10 6-87
IDC III 17 07 55 08.9–.81 38.29N 144.91E 0 3.8,3.6 ¶17196649
ISCJB III 17 07 55 13.1–.77 38.3N–.10 144.8E–.20 43 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 07 58 09.9–1.1 38.6N–.10 144.2E–.10 14 3.7b 11 5-87
IDC III 17 07 58 07.6–1.1 38.59N 144.10E 0 3.8,3.6 ¶17196650
ISCJB III 17 07 58 08.3–.92 38.6N–.10 144.1E–.10 14 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 08 04 13.2–1.2 35.98N 143.14E 0 3.9,3.7
¶17196652
IDC Error ellipse: s-maj=33.3km s-min=23.8km az=78.0.
ISC III 17 08 14 08.2–.66 38.01N–.06 144.05E–.07 35 4.1b 51 2-79
IDC III 17 08 14 03.0–.77 37.86N 144.23E 0 4.1,3.9 ¶16478823
NEIC III 17 08 14 04.6–.44 37.95N 144.15E 10 4.2b,3.9
JMA III 17 08 14 05.4–.70 38.07N 144.11E 40 4.6,3.9
ISCJB III 17 08 14 06.2–.40 38.02N–.04 144.04E–.04 33 4.1b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 17 08 29 36.1–.50 38.70N–.05 144.46E–.06 29 4.7b 88 3-147
IDC III 17 08 29 31.4–.58 38.59N 144.56E 0 4.7,4.6 ¶17196656
NEIC III 17 08 29 33.4–.19 38.64N 144.52E 10 4.9b,4.6
ISCJB III 17 08 29 34.5–.28 38.68N–.03 144.38E–.03 29 4.6b,4.6
JMA III 17 08 29 34.9–.30 38.75N 144.39E 37 4.8,4.6
ISC Event type se.

IDC Error ellipse: s-maj=16.5km s-min=13.1km az=125.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.6km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=164.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 17 08 34 17.1–.74 37.72N–.06 142.05E–.07 24 3.6b 19 1-146
ISCJB III 17 08 34 15.5–.62 37.66N–.05 142.15E–.06 24 3.6b **¶17196657**
JMA III 17 08 34 17.9–.30 37.71N 142.01E 29–4 4.0
IDC III 17 08 34 20.8–3.2 37.69N 142.14E 53–30 3.7,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.2km az=138.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.0km s-min=17.5km az=96.0.
ISC III 17 09 04 46.7–.91 37.53N–.08 143.91E–.08 35 4.1b 26 3-76
IDC III 17 09 04 40.9–.92 37.41N 144.16E 0 4.1,3.9 **¶17196661**
JMA III 17 09 04 43.5–.30 37.68N 143.93E 25 4.1,3.9
ISCJB III 17 09 04 44.6–.67 37.52N–.06 143.87E–.06 33 4.0b,3.9
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 09 09 49.0–.20 37.28N 142.52E 3–3 4.0
¶602667761
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 17 09 14 05.9–.30 37.39N 142.52E 11 3.7
¶602667760
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 17 09 25 36.6–.92 39.0N–.10 144.8E–.10 35 3.7b 11 6-87
IDC III 17 09 25 31.3–.85 39.00N 144.93E 0 3.8,3.6 **¶17196667**
ISCJB III 17 09 25 34.4–.76 39.0N–.10 144.8E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 09 28 10.7–.30 37.96N 142.26E 14 3.6
¶602667716
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 09 33 04.3–.68 38.04N–.06 144.39E–.06 35 3.7b 47 3-144
IDC III 17 09 32 58.9–.71 37.92N 144.50E 0 3.9,3.8 **¶17196668**
JMA III 17 09 33 02.9–.40 38.07N 144.36E 44 4.6,3.8
ISCJB III 17 09 33 02.8–.53 38.09N–.05 144.37E–.04 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 09 42 20.8–1.0 37.4N–.20 144.6E–.10 35 3.8b 9 5-76
IDC III 17 09 42 15.5–.91 37.39N 144.71E 0 4.0,3.8 **¶17196670**
ISCJB III 17 09 42 18.5–.87 37.4N–.20 144.6E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 09 52 31.0–2.6 37.52N 144.06E 0 3.6,3.4
¶17196672
IDC Error ellipse: s-maj=70.8km s-min=30.7km az=60.0.
IDC III 17 09 54 40.9–9.0 36.15N 143.81E 0 3.6,3.4b
¶17196673
IDC Error ellipse: s-maj=201.6km s-min=44.8km az=35.0.
ISC III 17 09 55 36.3–.64 35.96N–.06 142.14E–.08 23 3.8b 30 1-147
NIED III 17 09 55 00 36.10N 142.20E 5 3.9W **¶17196676**
IDC III 17 09 55 32.5–.69 35.90N 142.18E 0 4.0,3.9
ISCJB III 17 09 55 34.5–.52 35.96N–.05 142.19E–.07 23 3.8b,3.9
JMA III 17 09 55 35.5–.30 36.05N 142.18E 34 3.6,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ33.00000°,λ94.00000°. NP2:ϕ_s4.00000°,δ57.00000°,λ87.00000°. $M_0$9.10000×10^{14}
IDC Error ellipse: s-maj=17.7km s-min=16.5km az=169.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.1km az=136.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 17 09 58 04.5–1.9 36.6N–.10 142.9E–.10 29 10 2-61
IDC III 17 09 57 59.1–9.3 36.61N 143.68E 0 3.7,3.6L **¶17196677**
JMA III 17 09 58 15.9–.30 36.80N 142.33E 56 3.3,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=202.7km s-min=46.9km az=31.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 17 09 58 59.8–1.0 37.7N–.20 143.5E–.20 35 3.5b 8 4-76
IDC III 17 09 58 54.4–.93 37.70N 143.57E 0 3.7,3.6b **¶17196680**
ISCJB III 17 09 58 57.4–.87 37.7N–.10 143.5E–.20 33 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 10 16 51.9–.50 39.00N 143.85E 8 3.8
¶602668446
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 17 10 21 11.3–.62 37.27N–.04 143.49E–.06 35 4.0b 56 2-89
NIED III 17 10 21 00 37.30N 143.40E 5 4.0W **¶16478854**
IDC III 17 10 21 06.0–.63 37.14N 143.70E 0 4.1,3.9
JMA III 17 10 21 09.3–.40 37.29N 143.38E 44 4.1,3.9
NEIC III 17 10 21 09.8–3.8 37.12N 143.66E 25–27 4.1b,3.9
ISCJB III 17 10 21 09.2–.44 37.23N–.03 143.41E–.04 33 3.9b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ26.00000°,λ-99.00000°. NP2:ϕ_s211.00000°,δ65.00000°,λ-86.00000°. $M_0$1.04000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 17 10 32 55.9–.97 37.49N–.05 143.30E–.08 35 3.7b 24 2-89
IDC III 17 10 32 50.2–.95 37.12N 143.70E 0 3.9,3.8b **¶17196684**
JMA III 17 10 32 55.2–.30 37.55N 143.16E 23 3.9,3.8b
ISCJB III 17 10 32 55.7–.86 37.53N–.04 143.24E–.07 33 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 10 35 44.0–1.4 33.86N 141.15E 0 3.7,3.4
¶17196686
IDC Error ellipse: s-maj=48.8km s-min=32.5km az=90.0.
ISC III 17 10 41 59.5–1.6 36.6N–.20 144.3E–.20 35 3.8b 9 5-76
IDC III 17 10 41 53.3–1.9 36.65N 144.62E 0 3.8,3.7 **¶17196688**
ISCJB III 17 10 41 57.1–1.2 36.6N–.10 144.3E–.20 33 3.8b,3.8s
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 10 42 25.2–.50 37.25N 142.18E 0 3.9
¶602668341
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 10 44 01.7–.59 37.49N–.05 143.23E–.05 27–3 4.6b 221 2-145
NIED III 17 10 43 00 37.40N 143.20E 8 4.5W **¶600553038**
IDC III 17 10 43 57.3–.53 37.43N 143.26E 0 4.5,4.4
ISCJB III 17 10 43 58.6–1.1 37.46N–.03 143.15E–.03 15–7 4.6b,4.4
JMA III 17 10 44 00.5–.30 37.46N 143.11E 49 4.7,4.4
MOS III 17 10 44 00.9–1.2 37.50N 143.20E 35 4.9b,4.4
NEIC III 17 10 44 02.6–1.8 37.48N 143.19E 31–13 4.9b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ36.00000°,λ-66.00000°. NP2:ϕ_s204.00000°,δ58.00000°,λ-106.00000°. $M_0$6.51000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=11.9km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.6km az=154.5.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.4km s-min=6.1km az=104.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=137.0.
ISC III 17 11 03 46.4–.87 37.7N–.10 143.6E–.10 35 3.8b 14 4-76
IDC III 17 11 03 41.4–.86 37.71N 143.76E 0 4.0,3.8 **¶17196689**
ISCJB III 17 11 03 44.1–.71 37.63N–.09 143.7E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 11 09 51.6–.51 38.55N–.05 143.73E–.06 31–2 4.0b,3.5s 97 2-144
NIED III 17 11 09 00 38.50N 143.90E 5 4.2W,3.5s **¶602668251**
JMA III 17 11 09 47.9–.40 38.51N 143.87E 45 4.4,3.5s
IDC III 17 11 09 51.6–.45 38.49N 143.77E 33–2 4.0,4.0
NEIC III 17 11 10 01.8–.65 38.91N 142.35E 50–6 4.5b,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ46.00000°,λ-138.00000°. NP2:ϕ_s219.00000°,δ61.00000°,λ-52.00000°. $M_0$2.57000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

IDC Error ellipse: s-maj=12.0km s-min=10.2km az=149.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.7km az=111.0.
ISC III 17 11 20 02.9–2.4 37.45N–.08 142.48E–.09 0–13 3.7b 18 1-61
NIED III 17 11 20 00 37.50N 142.30E 8 3.7W **¶17196694**
IDC III 17 11 20 01.9–3.0 37.41N 142.85E 0 3.8,3.7b
JMA III 17 11 20 04.5–.60 37.47N 142.35E 0 4.0,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ38.00000°,λ-77.00000°. NP2:ϕ_s160.00000°,δ53.00000°,λ-100.00000°. $M_0$4.11000×10^{14}
IDC Error ellipse: s-maj=76.0km s-min=31.1km az=54.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 17 11 56 27.9–.77 39.26N–.06 144.75E–.07 38 4.1b 45 3-87
IDC III 17 11 56 21.7–.84 39.11N 144.97E 0 4.1,4.0 **¶16478875**
JMA III 17 11 56 25.5–.60 39.34N 144.69E 30 4.3,4.0
ISCJB III 17 11 56 26.0–.53 39.29N–.04 144.70E–.05 38 4.0b,4.0
NEIC III 17 11 56 27.1–.52 39.14N 144.84E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=16.9km az=105.0.
JMA Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.1km az=38.4.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.3km az=112.0.
IDC III 17 11 58 31.2–2.5 38.06N 144.46E 0 3.9,3.8b
¶17196702
IDC Error ellipse: s-maj=67.3km s-min=30.9km az=71.0.
ISC III 17 12 03 06.6–.61 37.34N–.09 144.11E–.10 35 4.0b 55 5-88
IDC III 17 12 03 01.6–.71 37.39N 144.15E 0 4.0,3.9 **¶16478879**
ISCJB III 17 12 03 04.4–.49 37.31N–.07 144.04E–.08 33 3.9b,3.9
NEIC III 17 12 03 06.6–.43 37.39N 144.07E 35 4.4b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=18.4km s-min=15.0km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.0km az=140.3.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.4km az=122.0.
ISC III 17 12 03 16.5–.60 37.45N–.08 144.00E–.10 35 4.2b 56 5-88
IDC III 17 12 03 11.2–.67 37.44N 144.08E 0 4.2,4.1 **¶16478883**
ISCJB III 17 12 03 14.2–.46 37.40N–.06 143.95E–.08 33 4.1b,4.1
NEIC III 17 12 03 16.4–.36 37.44N 144.00E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=15.3km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.8km az=32.2.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.2km az=118.0.
IDC III 17 12 03 19.9–1.3 37.42N 144.23E 0 4.1,3.9
¶17196707
IDC Error ellipse: s-maj=32.1km s-min=24.0km az=121.0.
IDC III 17 12 09 19.8–1.1 37.57N 144.48E 0 3.7,3.5
¶17196710
IDC Error ellipse: s-maj=49.3km s-min=22.4km az=111.0.
IDC III 17 12 10 32.5–2.3 37.24N 143.81E 0 3.8,3.8b
¶17196711
IDC Error ellipse: s-maj=69.7km s-min=25.2km az=65.0.
IDC III 17 12 12 21.8–2.6 37.93N 144.35E 0 3.9,3.9L
¶17196712
IDC Error ellipse: s-maj=66.8km s-min=31.5km az=68.0.
ISC III 17 12 16 05.6–.55 37.80N–.05 144.18E–.06 35 4.3b 75 3-88
NIED III 17 12 16 00 37.80N 143.90E 8 4.1W **¶16339113**
IDC III 17 12 16 00.2–.63 37.65N 144.28E 0 4.3,4.1
ISCJB III 17 12 16 03.5–.31 37.71N–.04 144.12E–.04 33 4.4b,4.1
JMA III 17 12 16 04.7–.60 37.75N 143.92E 49 4.3,4.1
NEIC III 17 12 16 05.6–.27 37.70N 144.19E 35 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ21.00000°,λ-58.00000°. NP2:ϕ_s174.00000°,δ72.00000°,λ-101.00000°. $M_0$1.56000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=13.9km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=141.5.
JMA Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.8km az=135.0.
ISC III 17 12 17 19.8–.79 36.51N–.09 142.6E–.10 15 4.2b 33 4-146
IDC III 17 12 17 17.0–.93 36.41N 142.58E 0 4.1,4.0 **¶16478889**
ISCJB III 17 12 17 18.1–.65 36.49N–.07 142.55E–.09 15 4.1b,4.0
NEIC III 17 12 17 22.4–.56 36.51N 142.52E 35 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=18.0km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=8.2km az=44.4.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.6km az=134.0.
ISC III 17 12 20 39.3–.70 37.83N–.06 144.03E–.06 35 4.0b 45 2-88
IDC III 17 12 20 33.7–.69 37.64N 144.25E 0 4.2,4.0 **¶16478892**
ISCJB III 17 12 20 37.2–.46 37.80N–.04 144.02E–.04 33 4.0b,4.0
JMA III 17 12 20 38.1–.20 37.85N 143.98E 47 4.2,4.0
NEIC III 17 12 20 38.8–.38 37.65N 144.19E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.0km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=5.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.4km az=138.0.
ISC III 17 12 23 00.7–.79 36.3N–.10 143.3E–.10 35 3.8b 17 4-89
IDC III 17 12 22 55.8–.71 36.37N 143.44E 0 4.1,3.9 **¶16461887**
ISCJB III 17 12 22 58.6–.60 36.24N–.09 143.3E–.10 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 12 24 51.9–5.8 37.16N 142.38E 0 4.0,3.6
¶603049880
IDC Error ellipse: s-maj=378.8km s-min=41.2km az=117.0.
IDC III 17 12 27 55.2–.80 37.66N 144.27E 0 3.9,3.7
¶17196716
IDC Error ellipse: s-maj=28.4km s-min=17.9km az=124.0.
IDC III 17 12 30 20.0–2.7 37.07N 142.66E 0 3.5,3.5b
¶17196717
IDC Error ellipse: s-maj=69.5km s-min=32.4km az=64.0.
IDC III 17 12 52 24.9–1.2 36.54N 143.39E 0 3.8,3.5
¶17196719
IDC Error ellipse: s-maj=51.1km s-min=26.9km az=94.0.
ISC III 17 13 02 29.6–1.2 37.7N–.10 144.2E–.10 35 3.9b 12 4-62
IDC III 17 13 02 25.2–1.4 37.68N 144.33E 0 4.0,3.8 **¶16478900**
ISCJB III 17 13 02 27.3–.86 37.67N–.09 144.2E–.10 33 3.9b,3.8
NEIC III 17 13 02 29.7–.74 37.69N 144.20E 35 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=40.4km s-min=28.4km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=11.7km az=32.7.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=10.5km az=118.0.
ISC III 17 13 11 00.4–.73 36.3N–.10 143.0E–.10 29 3.6b 17 4-146
ISCJB III 17 13 10 58.5–.70 36.3N–.10 142.9E–.10 29 3.7b **¶17196720**
IDC III 17 13 11 02.4–.86 36.29N 142.92E 44–7 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=13.7km az=43.2.
IDC Error ellipse: s-maj=20.9km s-min=15.8km az=66.0.
ISC III 17 13 18 07.2–1.3 37.4N–.20 143.9E–.20 35 3.6b 9 5-61
IDC III 17 13 18 01.9–1.1 37.38N 143.97E 0 3.9L,3.7 **¶17196724**
ISCJB III 17 13 18 04.7–.00 37.3N–.10 144.0E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 13 18 19.7–2.6 38.11N 145.60E 0 4.1L,3.8
¶17196727
IDC Error ellipse: s-maj=68.4km s-min=30.7km az=69.0.
IDC III 17 13 20 28.6–3.0 36.95N 143.15E 0 3.6,3.4
¶17196728
IDC Error ellipse: s-maj=77.5km s-min=36.6km az=63.0.
IDC III 17 13 26 49.7–16 33.03N 142.75E 0 3.8L,3.6
¶17196731
IDC Error ellipse: s-maj=568.2km s-min=34.1km az=65.0.
IDC III 17 13 30 07.1–3.0 38.01N 143.58E 0 3.6,3.5b
¶17196732
IDC Error ellipse: s-maj=72.2km s-min=36.9km az=68.0.

IDC III 17 13 44 29.4–3.3 36.33N 142.10E 0 3.7,3.5
¶17196734

IDC Error ellipse: s-maj=86.3km s-min=34.3km az=56.0.
ISC III 17 13 46 20.2–.91 36.6N–.10 143.5E–.10 35 3.5b 10 4-89
IDC III 17 13 46 15.1–.91 36.58N 143.69E 0 3.9,3.6 **¶17196735**
ISCJB III 17 13 46 18.1–.77 36.50N–.10 143.5E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 13 51 15.8–.79 37.79N–.07 144.08E–.07 35 3.7b 28 3-76
JMA III 17 13 51 14.7–.30 37.84N 143.97E 31 3.9 **¶17196736**
ISCJB III 17 13 51 14.0–.68 37.79N–.06 144.08E–.06 33 3.7b
IDC III 17 13 51 15.8–.71 37.64N 144.21E 37–6 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.6km az=25.6.
IDC Error ellipse: s-maj=23.1km s-min=15.7km az=119.0.
ISC III 17 13 56 38.4–1.1 39.1N–.10 143.6E–.10 20 3.7b 13 5-71
IDC III 17 13 56 35.2–1.0 39.08N 143.65E 0 3.9,3.7 **¶17196738**
ISCJB III 17 13 56 36.5–.90 39.1N–.10 143.6E–.10 20 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 17 13 57 05.2–.20 36.13N 142.08E 50 3.5
¶602667290

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 17 14 04 27.1–.41 37.73N–.04 143.75E–.04 28–2 4.6b,4.2s 226 2-97
NIED III 17 14 04 00 37.70N 143.70E 5 4.6W,4.2s **¶16331386**
ISCJB III 17 14 04 23.2–1.0 37.70N–.03 143.76E–.03 14–6 4.5b,3.9s
JMA III 17 14 04 25.3–.40 37.72N 143.73E 45 4.5,3.9s
NEIC III 17 14 04 27.8–.22 37.63N 143.77E 35 4.8b,3.9s
MOS III 17 14 04 28.3–1.1 38.11N 143.61E 33 4.8b,3.9s
IDC III 17 14 04 28.4–.47 37.62N 143.83E 39–3 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ46.00000°,λ-5.00000°. NP2:ϕ_s144.00000°,δ86.00000°,λ-136.00000°. $M_0$7.94000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=151.5.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=151.0.
MOS Error ellipse: s-maj=7.8km s-min=5.7km az=99.6.
IDC Error ellipse: s-maj=12.3km s-min=10.0km az=130.0.
ISC III 17 14 14 10.9–.91 39.42N–.07 143.60E–.07 11 3.6b 31 2-75
JMA III 17 14 14 04.7–.40 39.39N 143.79E 1 4.3 **¶17196739**
ISCJB III 17 14 14 07.1–.69 39.37N–.05 143.73E–.07 11 3.5b
IDC III 17 14 14 11.4–.99 39.22N 143.58E 27–4 3.6,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.6km az=35.6.
IDC Error ellipse: s-maj=22.5km s-min=15.5km az=161.0.
IDC III 17 14 29 08.0–9.8 36.75N 143.37E 0 3.5,3.4b
¶602667259

IDC Error ellipse: s-maj=212.0km s-min=50.3km az=29.0.
ISC III 17 14 55 16.9–.53 36.70N–.05 143.15E–.06 29–3 4.3b 95 2-146
NIED III 17 14 55 00 36.80N 143.10E 5 4.4W **¶16339115**
ISCJB III 17 14 55 15.0–1.4 36.66N–.04 143.13E–.04 29–10 4.2b
JMA III 17 14 55 16.6–.20 36.78N 143.05E 48 4.5
NEIC III 17 14 55 17.4–.28 36.61N 143.19E 35 4.7b
IDC III 17 14 55 18.6–.48 36.65N 143.15E 43–4 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ45.00000°,λ-78.00000°. NP2:ϕ_s32.00000°,δ46.00000°,λ-102.00000°. $M_0$5.16000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.3km az=161.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.1km az=153.0.
IDC Error ellipse: s-maj=12.6km s-min=9.5km az=162.0.
ISC III 17 15 02 47.7–4.0 37.58N–.07 142.71E–.09 16–23 4.1b 43 2-146
NIED III 17 15 02 00 37.50N 142.60E 17 4.2W **¶16461891**
IDC III 17 15 02 44.1–.72 37.53N 142.95E 0 4.2,4.0
JMA III 17 15 02 48.0–.30 37.55N 142.59E 3 4.5,4.0
NEIC III 17 15 02 49.3–3.2 37.54N 142.91E 35–23 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ48.00000°,λ-59.00000°. NP2:ϕ_s196.00000°,δ51.00000°,λ-120.00000°. $M_0$2.19000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=17.5km az=146.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.4km az=123.0.
ISC III 17 15 04 37.0–1.1 37.44N–.06 143.67E–.09 35 3.8b 26 2-61
IDC III 17 15 04 31.6–1.2 37.37N 143.85E 0 3.9,3.8L **¶17196747**
ISCJB III 17 15 04 35.3–.83 37.40N–.05 143.63E–.07 33 3.6b,3.8L
JMA III 17 15 04 36.8–.40 37.45N 143.56E 54 4.2,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=26.1km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.5km az=27.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 15 08 44.8–.92 39.29N–.10 143.3E–.10 11 4.1b 34 2-73
ISCJB III 17 15 08 42.6–.58 39.27N–.06 143.38E–.08 11 4.0b **¶600553446**
IDC III 17 15 08 42.6–.97 39.19N 143.31E 0 3.8,3.8
JMA III 17 15 08 45.7–.20 39.36N 143.23E 16 4.1,3.8
NEIC III 17 15 08 49.1–1.2 39.23N 143.33E 48–11 4.4b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=8.0km az=135.2.
IDC Error ellipse: s-maj=25.5km s-min=18.0km az=85.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.8km az=103.0.
IDC III 17 15 19 49.7–2.7 38.62N 144.20E 0 3.6,3.5L
¶17196749

IDC Error ellipse: s-maj=69.3km s-min=32.7km az=58.0.
ISC III 17 15 28 12.8–1.2 39.56N–.08 143.41E–.08 11 3.6b 18 2-72
IDC III 17 15 28 08.6–.90 39.03N 143.56E 0 3.8,3.6 **¶17196753**
ISCJB III 17 15 28 11.7–.97 39.57N–.08 143.64E–.08 11 3.8s,3.5b
JMA III 17 15 28 14.4–.60 39.51N 143.44E 20 4.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=26.5km s-min=21.5km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.6km az=161.3.
JMA Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
ISC III 17 15 32 22.6–1.7 38.02N–.07 144.4E–.10 35 3.8b 22 3-75
JMA III 17 15 32 22.7–.40 38.12N 144.02E 0 4.3 **¶17196754**
ISCJB III 17 15 32 23.6–1.3 37.99N–.06 144.23E–.10 33 4.0s,3.8b
IDC III 17 15 32 28.4–2.0 36.44N 143.81E 0 4.0,4.0s
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.6km az=179.9.
IDC Error ellipse: s-maj=63.2km s-min=30.1km az=71.0.
ISC III 17 15 42 44.4–.68 36.1N–.10 142.50E–.10 18 4.3b 65 4-90
IDC III 17 15 42 41.5–.66 36.09N 142.51E 0 4.3,4.1 **¶600553544**
ISCJB III 17 15 42 42.5–.36 36.03N–.06 142.41E–.06 18 4.2b,3.6s
NEIC III 17 15 42 46.8–.25 36.07N 142.44E 35 4.7b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=15.7km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=7.4km az=178.6.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=170.0.
ISC III 17 15 50 09.0–1.5 38.33N–.07 144.03E–.09 14 3.3b 18 2-62
ISCJB III 17 15 50 07.7–.98 38.37N–.05 144.03E–.07 14 3.4b **¶17196759**
JMA III 17 15 50 11.4–.30 38.37N 143.96E 51 3.7
IDC III 17 15 50 11.2–2.9 37.66N 143.98E 0 3.5,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.6km az=27.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=74.2km s-min=31.7km az=56.0.
IDC III 17 15 55 57.9–12 36.21N 142.94E 0 3.8,3.7b
¶603049888

IDC Error ellipse: s-maj=272.6km s-min=43.8km az=34.0.
JMA III 17 15 56 08.1–.80 39.24N 143.28E 4 3.5
¶602667132

JMA Error ellipse: s-maj=5.6km s-min=4.3km az=-1.0.
ISC III 17 16 00 36.3–.60 36.64N–.04 142.01E–.04 24–3 4.9b,4.1s 412 1-146
NIED III 17 16 00 00 36.70N 142.20E 20 4.7W,4.1s **¶600553573**
IDC III 17 16 00 32.1–.52 36.66N 142.18E 0 4.6,4.5
JMA III 17 16 00 34.8–.30 36.72N 142.20E 30 4.6,4.5
BJI III 17 16 00 35.7 36.61N 141.92E 30 5.2b,4.9b
ISCJB III 17 16 00 35.8–.94 36.65N–.02 142.05E–.03 30–6 4.8b,4.2s
MOS III 17 16 00 36.5–.96 37.03N 142.01E 24 5.0b,4.2s
NEIC III 17 16 00 39.1–.76 36.64N 141.92E 46–7 4.9b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ17.00000°,λ67.00000°. NP2:ϕ_s346.00000°,δ74.00000°,λ97.00000°. $M_0$1.24000×10^{16}
IDC Error ellipse: s-maj=14.0km s-min=11.9km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=144.6.
MOS Error ellipse: s-maj=6.8km s-min=4.8km az=113.2.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=137.0.
ISC III 17 16 04 54.3–1.5 37.43N–.10 142.3E–.10 21 3.5b 10 2-69
IDC III 17 16 04 50.1–1.9 37.31N 142.57E 0 3.6,3.6b **¶602667118**
ISCJB III 17 16 04 52.6–1.2 37.3N–.10 142.4E–.10 21 3.6s,3.5b
JMA III 17 16 04 54.3–.60 37.37N 142.10E 7–4 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=52.0km s-min=28.1km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=14.1km az=163.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 17 16 16 46.6–.73 39.48N–.06 144.50E–.06 23 3.6b 43 2-87
IDC III 17 16 16 42.4–.74 39.24N 144.69E 0 3.8,3.7 **¶17196763**
JMA III 17 16 16 45.5–.40 39.51N 144.42E 41 4.0,3.7
ISCJB III 17 16 16 45.3–.57 39.55N–.04 144.40E–.05 23 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 16 18 10.2–1.3 36.76N 143.10E 0 3.8,3.5
¶17196764

IDC Error ellipse: s-maj=35.7km s-min=29.2km az=62.0.
ISC III 17 16 27 26.1–.46 38.07N–.06 144.42E–.06 35 4.4b 92 3-118
IDC III 17 16 27 20.6–.56 37.93N 144.49E 0 4.2,4.2 **¶602667062**
NEIC III 17 16 27 22.2–2.2 37.95N 144.49E 10–13 4.7b,4.2
ISCJB III 17 16 27 24.0–.29 37.97N–.04 144.35E–.04 33 4.3b,3.4s
JMA III 17 16 27 25.9–.30 37.91N 144.20E 54 4.6,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.0km az=132.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.5km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.2km az=171.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 17 16 58 08.8–.61 39.89N–.06 143.69E–.07 6 4.3b,3.4s 88 2-87
NIED III 17 16 58 00 39.90N 143.60E 8 4.3W,3.4s **¶602666941**
ISCJB III 17 16 58 06.7–.40 39.84N–.04 143.69E–.06 6 4.2b,3.5s
IDC III 17 16 58 07.2–.68 39.75N 143.72E 0 4.2,4.1
JMA III 17 16 58 10.3–.20 39.94N 143.62E 26 4.6,4.1
NEIC III 17 16 58 10.1–2.6 39.79N 143.68E 17–16 4.5b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ36.00000°,λ50.00000°. NP2:ϕ_s39.00000°,δ63.00000°,λ115.00000°. $M_0$3.72000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.1km az=39.1.
IDC Error ellipse: s-maj=16.3km s-min=14.9km az=129.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.4km az=114.0.
ISC III 17 17 02 38.5–.84 37.33N–.06 142.31E–.07 21 4.0b 35 1-77
NIED III 17 17 02 00 37.40N 142.20E 8 3.9W **¶16449614**
IDC III 17 17 02 34.5–.96 37.33N 142.51E 0 4.0,3.9
JMA III 17 17 02 36.5–.20 37.43N 142.21E 0 4.2,3.9
ISCJB III 17 17 02 36.4–.60 37.31N–.04 142.39E–.06 21 4.1b,3.9
NEIC III 17 17 02 40.0–.65 37.26N 142.45E 35 4.8b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ28.00000°,λ-81.00000°. NP2:ϕ_s211.00000°,δ63.00000°,λ-95.00000°. $M_0$6.96000×10^{14}
IDC Error ellipse: s-maj=24.6km s-min=17.7km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=6.2km az=31.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=10.2km az=119.0.
ISC III 17 17 03 53.6–.97 39.7N–.10 143.7E–.10 11 4.2b 21 2-75
ISCJB III 17 17 03 51.8–.69 39.68N–.08 143.6E–.10 11 4.1b **¶16449615**
IDC III 17 17 03 51.9–.92 39.68N 143.65E 0 4.1,4.0
NEIC III 17 17 03 57.1–.55 39.76N 143.61E 35 4.8b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=10.9km az=179.5.
IDC Error ellipse: s-maj=25.5km s-min=18.3km az=89.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.6km az=99.0.
IDC III 17 17 08 31.4–1.5 39.74N 144.04E 0 3.7,3.6
¶17196772

IDC Error ellipse: s-maj=38.6km s-min=24.6km az=85.0.
IDC III 17 17 16 21.5–2.8 36.82N 142.09E 0 3.5,3.5b
¶603049891

IDC Error ellipse: s-maj=70.8km s-min=36.0km az=61.0.
ISC III 17 17 19 50.4–.81 38.74N–.07 144.02E–.07 14 3.9b 41 2-87
ISCJB III 17 17 19 49.9–.63 38.81N–.05 143.95E–.05 14 3.8b **¶602666918**
JMA III 17 17 19 51.3–.30 38.73N 143.97E 40 4.5
IDC III 17 17 19 54.2–3.0 38.56N 144.00E 46–27 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.6km az=153.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=22.9km s-min=16.2km az=93.0.
ISC III 17 17 27 17.5–.54 38.70N–.05 143.99E–.06 14 4.4b 84 2-87
ISCJB III 17 17 27 15.6–.34 38.65N–.04 143.98E–.04 14 4.3b **¶16452059**
IDC III 17 17 27 15.0–.56 38.60N 144.04E 0 4.4,4.3
JMA III 17 17 27 17.6–.20 38.70N 144.02E 47 4.6,4.3
NEIC III 17 17 27 17.9–2.9 38.64N 144.00E 18–18 4.7b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.6km az=160.4.
IDC Error ellipse: s-maj=14.9km s-min=12.1km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.4km az=113.0.
ISC III 17 17 31 54.7–.53 37.77N–.04 143.41E–.04 25–3 4.9b,4.4s 438 2-150
NIED III 17 17 31 00 37.70N 143.50E 8 4.8W,4.4s **¶16336100**
IDC III 17 17 31 50.1–.47 37.64N 143.54E 0 4.6,4.5
ISCJB III 17 17 31 51.1–.88 37.76N–.03 143.34E–.02 10–5 4.8b,4.3s
JMA III 17 17 31 51.9–.30 37.70N 143.47E 41 4.9,4.3s
NEIC III 17 17 31 54.1–.73 37.68N 143.41E 21–5 5.0b,4.3s
BJI III 17 17 31 54.3 37.93N 143.25E 28 5.1b,4.8b
GCMT III 17 17 31 54.1–.50 37.79N 143.42E 12–1 4.8W,4.8b
MOS III 17 17 31 55.6–1.2 37.99N 143.28E 33 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ19.00000°,λ-105.00000°. NP2:ϕ_s216.00000°,δ71.00000°,λ-85.00000°. $M_0$1.83000×10^{16}
IDC Error ellipse: s-maj=13.1km s-min=10.5km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=163.6.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.3km az=153.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s10,c10; s64,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.45±.15 $M_{\theta\theta}$0.48±.09; $M_{\phi\phi}$0.97±.09; $M_{r\theta}$0.58±.30; $M_{\theta\phi}$0.65±.05; $M_{\phi r}$1.74±.38; Best double couple: NP1:ϕ_s202.00000°,δ71.00000°,λ-98.00000°. NP2:ϕ_s45.00000°,δ20.00000°,λ-69.00000°. Principal axes: T 2.2830,Plg26.0000°,Azm298.0000°; N 0.0950,Plg7.0000°,Azm205.0000°; P -2.3760,Plg63.0000°,Azm100.0000° $M_0$2.32900×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=109.7.
JMA III 17 17 39 53.9–.30 38.73N 143.96E 47 3.9
¶602666893

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 17 18 01 19.3–.46 37.72N–.04 144.51E–.04 24–2 5.0b,4.1s 718 3-153

NIED III 17 18 01 00 37.50N 144.30E 5 4.7W,4.1s **¶16331405**
IDC III 17 18 01 14.5–.44 37.49N 144.58E 0 4.8,4.7
ISCJB III 17 18 01 16.5–.86 37.70N–.03 144.41E–.02 13–5 4.9b,4.1s
BJI III 17 18 01 17.9 37.83N 144.44E 22 5.1b,4.8b
MOS III 17 18 01 18.7–.86 37.86N 144.40E 22 5.1b,4.0s
JMA III 17 18 01 18.9–.50 37.53N 144.32E 50 4.8,4.0s
GCMT III 17 18 01 19.6–.40 37.57N 144.40E 20–1 4.8W,4.0s
NEIC III 17 18 01 19.6–.63 37.59N 144.41E 25–4 5.0b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ24.00000°,λ-132.00000°. NP2:ϕ_s62.00000°,δ73.00000°,λ-74.00000°. $M_0$1.17000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=11.3km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.4km az=176.6.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=103.5.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c27; s65,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.22±.15 $M_{\theta\theta}$1.22±.10; $M_{\phi\phi}$1.00±.09; $M_{r\theta}$-0.55±.20; $M_{\theta\phi}$0.79±.05; $M_{\phi r}$0.52±.17; Best double couple: NP1:ϕ_s64.00000°,δ48.00000°,λ-69.00000°. NP2:ϕ_s214.00000°,δ46.00000°,λ-112.00000°. Principal axes: T 1.9060,Plg1.0000°,Azm140.0000°; N 0.5250,Plg15.0000°,Azm230.0000°; P -2.4310,Plg75.0000°,Azm45.0000° $M_0$2.16800×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.0km az=158.0.
ISC III 17 18 22 13.3–1.1 34.96N–.05 141.5E–.10 27 3.4b 19 1-76
IDC III 17 18 22 08.8–1.2 35.12N 141.71E 0 3.7,3.5 **¶600553827**
ISCJB III 17 18 22 11.4–.86 34.94N–.05 141.58E–.09 27 3.5b,3.5
JMA III 17 18 22 13.1–.50 34.91N 141.39E 53–5 3.1,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=21.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.8km az=167.7.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 17 18 24 01.9–4.0 37.81N–.04 143.82E–.06 12–25 4.1b 79 2-88
IDC III 17 18 23 59.9–.59 37.76N 143.81E 0 4.1,4.0 **¶600553830**
JMA III 17 18 24 03.8–.40 37.80N 143.68E 40 4.4,4.0
NEIC III 17 18 24 04.6–3.8 37.73N 143.85E 30–27 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=13.7km az=126.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.7km az=137.0.
ISC III 17 18 32 55.5–.61 37.27N–.05 143.48E–.07 35 3.9b 52 2-89
NIED III 17 18 32 00 37.30N 143.40E 5 3.9W **¶602667430**
IDC III 17 18 32 50.5–.71 37.22N 143.63E 0 4.2L,4.1
NEIC III 17 18 32 53.0–4.4 37.13N 143.67E 17–27 4.1b,4.1
JMA III 17 18 32 54.4–.30 37.30N 143.39E 50 4.5,4.1
ISCJB III 17 18 32 54.0–.43 37.24N–.04 143.42E–.05 33 3.9b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ39.00000°,λ-113.00000°. NP2:ϕ_s235.00000°,δ54.00000°,λ-72.00000°. $M_0$7.83000×10^{14}
NEIC Event type se.
ISCJB Event type ke.
ISC III 17 18 52 26.9–1.1 36.12N–.06 142.1E–.10 23 3.6b 19 1-147
IDC III 17 18 52 22.5–1.3 36.22N 142.40E 0 3.7,3.7 **¶600553874**
ISCJB III 17 18 52 25.8–.94 36.11N–.06 142.0E–.10 23 3.5b,3.7
JMA III 17 18 52 28.1–.30 36.18N 141.92E 65 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=20.6km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=8.4km az=171.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 17 18 55 35.2–.36 37.18N–.03 142.41E–.03 16–1 5.7b,5.1s 1049 1-164
NIED III 17 18 55 00 37.10N 142.60E 8 5.4W,5.1s **¶602443674**
JMA III 17 18 55 31.9–.30 37.14N 142.52E 9 5.7,5.1s
ISCJB III 17 18 55 32.7–.76 37.10N–.02 142.36E–.02 9–4 5.5b,5.2s
IDC III 17 18 55 32.2–.38 37.04N 142.46E 0 5.5,5.5b
GCMT III 17 18 55 36.9–.10 37.11N 142.39E 12 5.4W,5.5b
BJI III 17 18 55 36.6 37.20N 142.05E 27 5.6s,5.5b
NEIC III 17 18 55 36.9–.61 37.13N 142.34E 26–4 5.6b,5.5W
MOS III 17 18 55 38.3–.84 37.50N 142.31E 36 5.8b,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s135.00000°,δ47.00000°,λ-132.00000°. NP2:ϕ_s8.00000°,δ57.00000°,λ-54.00000°. $M_0$1.56000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=148.8.
IDC Error ellipse: s-maj=11.1km s-min=9.8km az=99.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s86,c128; s114,c227;Duration: 1$s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.31±.02 $M_{\theta\theta}$-0.15±.02; $M_{\phi\phi}$1.46±.02; $M_{r\theta}$-0.20±.06; $M_{\theta\phi}$-0.67±.02; $M_{\theta r}$-0.11±.05; Best double couple: NP1: ϕ_s353.00000°,δ47.00000°,λ-72.00000°. NP2:ϕ_s147.00000°,δ46.00000°,λ-109.00000°. Principal axes: T 1.7000,Plg1.0000°,Azm70.0000°; N -0.3330,Plg13.0000°,Azm160.0000°; P -1.3640,Plg77.0000°,Azm337.0000° $M_0$1.53200×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=137.0. Recorded [3 JMA] in Ibaraki. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.98 $M_{\theta\theta}$0.47 $M_{\phi\phi}$1.51 $M_{r\theta}$-0.86 $M_{\theta\phi}$-0.99 $M_{\theta r}$-0.67 Best double couple: NP1:ϕ_s352.00000°,δ52.00000°,λ-58.00000°. NP2:ϕ_s127.00000°,δ48.00000°,λ-12.00000°. Principal axes: T 2.1100,Plg2.0000°,Azm60.0000°; N 0.3700,Plg25.0000°,Azm151.0000°; P -2.4800,Plg65.0000°,Azm325.0000° $M_0$2.30000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.5km az=105.7.
JMA III 17 19 18 10.0–.70 37.29N 142.52E 24 3.6
¶602666785
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
JMA III 17 19 19 09.5–.20 38.13N 144.64E 47 4.1
¶602666781
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 17 19 24 20.2–.40 37.25N 142.28E 38 3.6
¶602666771
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 17 19 28 21.2–.69 36.99N–.07 142.51E–.08 35 4.2b 41 2-146
NIED III 17 19 28 00 37.00N 142.50E 11 4.1W **¶600553933**
NEIC III 17 19 28 19.2–3.3 36.99N 142.57E 15–20 4.5b
JMA III 17 19 28 19.2–.30 37.02N 142.54E 35 4.5
ISCJB III 17 19 28 20.1–.40 36.94N–.05 142.50E–.05 35 4.3b
IDC III 17 19 28 21.4–.78 36.98N 142.50E 28–4 4.2,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ39.00000°,λ-126.00000°. NP2:ϕ_s30.00000°,δ60.00000°,λ-65.00000°. $M_0$1.76000×10^{15}
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.9km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=155.0.
IDC Error ellipse: s-maj=14.7km s-min=12.9km az=149.0.
JMA III 17 19 31 27.0–.30 37.14N 142.46E 17 3.6
¶602666751
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 17 19 33 40.4–1.1 34.97N–.07 141.25E–.09 27 3.4b 16 0-59
IDC III 17 19 33 36.2–1.1 34.99N 141.44E 0 4.0,3.8s **¶602666738**
ISCJB III 17 19 33 38.5–.89 34.92N–.06 141.37E–.09 27 3.8s,3.5b
JMA III 17 19 33 39.6–.30 34.96N 141.37E 50 2.8,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=35.0km s-min=20.7km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.6km az=178.2.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 17 19 37 19.8–.70 34.99N–.06 141.32E–.09 27 3.9b 33 0-84
IDC III 17 19 37 15.9–.69 34.97N 141.35E 0 4.0,3.9 **¶16478722**
JMA III 17 19 37 18.8–.40 34.96N 141.42E 43–5 3.2,3.9
ISCJB III 17 19 37 18.1–.55 34.99N–.05 141.43E–.07 27 3.8b,3.9
NEIC III 17 19 37 20.8–2.6 34.98N 141.32E 33–18 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.1km az=104.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.0km az=25.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.2km az=105.0.
ISC III 17 19 41 27.2–.63 36.75N–.06 143.14E–.07 29 3.9b 35 2-77
NIED III 17 19 41 00 36.70N 142.90E 5 4.0W **¶17196785**
ISCJB III 17 19 41 25.6–.56 36.73N–.05 143.11E–.05 29 3.9b
IDC III 17 19 41 28.0–.71 36.74N 143.42E 36–5 3.9,3.9
JMA III 17 19 41 28.2–.30 36.71N 142.94E 33 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ35.00000°,λ-81.00000°. NP2:ϕ_s214.00000°,δ55.00000°,λ-96.00000°. $M_0$1.06000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.0km az=156.7.
IDC Error ellipse: s-maj=18.2km s-min=14.7km az=119.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 17 19 45 04.4–.30 37.13N 142.51E 17 3.5
¶602666726
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 17 19 47 41.1–3.0 36.00N 147.21E 0 3.7,3.6L
¶17196786
IDC Error ellipse: s-maj=83.0km s-min=31.5km az=65.0.
IDC III 17 19 48 18.0–1.4 37.06N 144.80E 0 3.7,3.7s
¶17196787
IDC Error ellipse: s-maj=32.9km s-min=29.8km az=111.0.
ISC III 17 19 50 28.2–1.8 37.63N–.10 142.0E–.10 24 3.6b 11 1-61
JMA III 17 19 50 28.4–.30 37.61N 141.96E 22–4 3.4 **¶17196789**
IDC III 17 19 50 30.5–2.3 36.75N 141.93E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=66.7km s-min=23.9km az=62.0.
IDC III 17 19 51 37.9–2.8 36.72N 143.45E 0 3.9,3.8
¶17196790
IDC Error ellipse: s-maj=79.7km s-min=25.1km az=59.0.
ISC III 17 19 56 54.1–.65 37.13N–.05 143.69E–.07 35 3.8b 37 3-90
NIED III 17 19 56 00 37.10N 143.50E 5 3.9W **¶17196791**
JMA III 17 19 56 51.8–.70 37.06N 143.52E 17 4.0
ISCJB III 17 19 56 52.5–.57 37.12N–.04 143.63E–.05 33 3.8b
IDC III 17 19 56 54.0–.75 37.03N 143.84E 33–5 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ27.00000°,λ-97.00000°. NP2:ϕ_s186.00000°,δ63.00000°,λ-86.00000°. $M_0$8.29000×10^{14}
JMA Error ellipse: s-maj=3.3km s-min=5.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.3km az=34.9.
IDC Error ellipse: s-maj=17.9km s-min=14.2km az=120.0.
ISC III 17 19 59 29.6–1.4 38.08N–.06 143.9E–.10 35 3.9b 20 2-69
JMA III 17 19 59 29.4–.40 38.10N 143.86E 45 4.3 **¶17196792**
ISCJB III 17 19 59 29.3–1.1 38.08N–.07 143.88E–.09 33 3.9b
IDC III 17 19 59 37.6–.97 37.34N 143.64E 37–7 3.9,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=8.4km az=139.1.
IDC Error ellipse: s-maj=28.8km s-min=16.7km az=92.0.
IDC III 17 20 21 55.5–2.9 37.51N 142.37E 0 3.5,3.4b
¶17196796
IDC Error ellipse: s-maj=68.3km s-min=36.0km az=64.0.
ISC III 17 20 22 55.8–1.2 35.8N–.20 143.7E–.20 35 3.7b 9 5-60
IDC III 17 20 22 50.6–1.1 35.77N 143.80E 0 3.7,3.6b **¶17196797**
ISCJB III 17 20 22 53.3–.92 35.7N–.10 143.7E–.20 33 3.5b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 20 30 10.4–1.0 37.5N–.10 143.5E–.20 35 3.6b 14 4-69
ISCJB III 17 20 30 07.8–.94 37.5N–.10 143.6E–.10 33 3.7b **¶17196798**
IDC III 17 20 30 10.6–.96 37.52N 143.54E 37–6 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=16.0km az=146.0.
IDC Error ellipse: s-maj=29.4km s-min=16.0km az=74.0.
ISC III 17 20 31 41.3–.00 37.7N–.20 142.6E–.20 21 3.9b 15 26-146
IDC III 17 20 31 38.0–1.1 37.76N 142.65E 0 4.2,4.0 **¶17196801**
ISCJB III 17 20 31 39.7–.93 37.7N–.20 142.5E–.20 21 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 20 33 05.2–.67 37.52N–.07 143.44E–.08 34–1 4.3b 56 2-83
NEIC III 17 20 33 03.6–3.3 37.49N 143.57E 26–23 4.6b **¶16478724**
JMA III 17 20 33 04.2–.30 37.52N 143.39E 53 4.1
IDC III 17 20 33 05.4–.65 37.52N 143.55E 38–4 4.1,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.2km az=94.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.8km s-min=13.2km az=84.0.
JMA III 17 20 41 43.7–.30 37.20N 142.44E 14 3.3
¶603049897
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 17 20 47 43.0–2.5 37.72N 143.83E 0 3.4,3.3
¶17196807
IDC Error ellipse: s-maj=66.6km s-min=29.3km az=68.0.
ISC III 17 20 52 08.3–.37 34.94N–.03 141.37E–.05 27 4.6b,3.9s 145 0-148
NIED III 17 20 52 00 34.90N 141.60E 20 4.7W,3.9s **¶16334567**
IDC III 17 20 52 04.7–.45 34.99N 141.32E 0 4.6,4.5
JMA III 17 20 52 05.5–.40 34.95N 141.56E 57–4 4.1,4.5
ISCJB III 17 20 52 06.6–.26 34.97N–.03 141.43E–.04 27 4.5b,3.9s
NEIC III 17 20 52 07.7–2.6 34.95N 141.29E 19–16 4.7b,3.9s
MOS III 17 20 52 07.9–1.2 35.11N 141.47E 33 4.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ40.00000°,λ124.00000°. NP2:ϕ_s350.00000°,δ58.00000°,λ65.00000°. $M_0$1.07000×10^{16}
IDC Error ellipse: s-maj=13.3km s-min=10.6km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.2km az=2.5.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.0km az=87.0.
MOS Error ellipse: s-maj=9.7km s-min=5.5km az=106.4.
IDC III 17 21 00 47.4–16 37.01N 145.84E 0 3.6L,3.5
¶17196809
IDC Error ellipse: s-maj=305.8km s-min=72.4km az=141.0.
ISC III 17 21 03 41.7–3.2 38.85N–.08 143.01E–.10 2–17 3.6b 22 1-47
JMA III 17 21 03 41.8–.30 38.73N 142.98E 0 4.3 **¶17196811**
IDC III 17 21 03 42.1–3.0 38.90N 142.99E 0 3.7L,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=65.9km s-min=26.0km az=151.0.
ISC III 17 21 04 53.6–.91 37.4N–.10 143.71E–.10 35 3.9b 14 4-75
IDC III 17 21 04 48.5–1.1 37.49N 143.76E 0 4.0,4.0L **¶16478733**
ISCJB III 17 21 04 51.6–.75 37.43N–.10 143.67E–.09 33 3.8b,4.0L
NEIC III 17 21 04 54.3–1.9 37.49N 143.71E 41–16 4.1b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=21.5km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=10.0km az=156.4.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=12.0km az=99.0.
ISC III 17 21 05 05.8–1.1 37.4N–.10 143.7E–.20 35 3.8b 11 4-75
IDC III 17 21 05 01.1–1.1 37.52N 143.69E 0 4.0,4.0L **¶17196814**
ISCJB III 17 21 05 03.7–.82 37.4N–.10 143.7E–.10 33 3.9b,4.0L
NEIC III 17 21 05 06.8–1.9 37.55N 143.60E 38–17 4.0b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=33.6km s-min=22.2km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=13.0km az=137.4.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=13.6km az=101.0.
ISC III 17 21 11 08.7–1.0 37.7N–.10 143.5E–.10 35 4.0b 18 4-76
NEIC III 17 21 11 03.7–4.9 37.73N 143.62E 2–29 4.0b **¶16453167**
IDC III 17 21 11 03.4–1.2 37.63N 143.61E 0 4.1,4.0
ISCJB III 17 21 11 06.5–.81 37.74N–.09 143.5E–.10 33 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 17 21 12 29.5–1.1 37.0N–.20 143.7E–.10 35 4.0b 13 4-61
IDC III 17 21 12 23.4–2.9 37.03N 143.98E 0 4.0,3.8 **¶16453168**
ISCJB III 17 21 12 27.1–.89 36.9N–.10 143.7E–.10 33 3.9b,3.8
NEIC III 17 21 12 29.2–.65 36.99N 143.79E 35 4.1b,3.8

ISC Event type se.
IDC Error ellipse: s-maj=80.1km s-min=26.7km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=12.0km az=165.3.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=11.4km az=147.0.
ISC III 17 21 15 40.9–.74 37.83N–.06 143.42E–.08 19 3.8b 25 2-88
ISCJB III 17 21 15 39.0–.69 37.86N–.05 143.44E–.06 19 3.7b **¶17196816**
JMA III 17 21 15 40.1–.30 37.80N 143.42E 41 3.9
IDC III 17 21 15 42.6–.86 37.60N 143.72E 37–7 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.9km az=43.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=22.4km s-min=17.7km az=145.0.
ISC III 17 21 29 04.3–1.6 34.41N–.08 141.8E–.20 21 3.5b 11 2-58
IDC III 17 21 29 01.0–1.9 34.34N 141.86E 0 3.7,3.6 **¶17196817**
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=23.8km az=71.0.
ISC III 17 21 36 04.6–.71 37.86N–.05 143.77E–.07 28–4 3.9b 47 2-76
NIED III 17 21 36 00 37.90N 143.70E 5 4.0W **¶17196819**
JMA III 17 21 36 04.1–.30 37.91N 143.69E 44 4.2
ISCJB III 17 21 36 04.4–1.0 37.88N–.04 143.67E–.08 42–11 3.9b
IDC III 17 21 36 06.3–.64 37.80N 143.95E 39–5 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ24.00000°,λ-103.00000°. NP2:ϕ_s221.00000°,δ66.00000°,λ-84.00000°. $M_0$9.97000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.2km az=11.2.
IDC Error ellipse: s-maj=19.4km s-min=13.6km az=111.0.
ISC III 17 21 38 53.6–.67 34.95N–.05 141.36E–.08 27 4.1b 44 0-84
IDC III 17 21 38 49.7–.78 34.94N 141.32E 0 4.2,4.0 **¶16461896**
ISCJB III 17 21 38 51.3–.53 34.95N–.04 141.49E–.06 27 4.1b,4.0
JMA III 17 21 38 53.2–.30 34.96N 141.36E 39–4 3.4,4.0
NEIC III 17 21 38 53.7–.78 34.98N 141.34E 26–5 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=15.8km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.8km az=9.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.3km az=152.0.
IDC III 17 21 52 21.7–2.5 37.61N 143.84E 0 3.6,3.5b
¶17196822
IDC Error ellipse: s-maj=67.2km s-min=27.8km az=67.0.
ISC III 17 21 53 34.1–.55 38.01N–.05 144.00E–.06 35 4.2b,3.7s 64 2-91
NIED III 17 21 53 00 38.00N 143.80E 5 4.1W,3.7s **¶16478725**
NEIC III 17 21 53 32.4–2.9 38.04N 144.03E 18–17 4.6b,3.7s
ISCJB III 17 21 53 32.9–.44 38.04N–.05 143.91E–.05 33 4.2b,3.8s
JMA III 17 21 53 33.3–.40 38.01N 143.79E 36 4.4,3.8s
IDC III 17 21 53 35.6–.55 38.01N 143.99E 42–4 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ20.00000°,λ-81.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ-93.00000°. $M_0$1.57000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.9km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=175.5.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=12.2km az=114.0.
ISC III 17 21 59 05.4–1.0 37.5N–.20 143.7E–.10 35 3.7b 13 4-60
ISCJB III 17 21 59 03.6–1.2 37.5N–.20 143.8E–.20 33 3.7b **¶17196824**
IDC III 17 21 59 06.9–1.0 37.48N 143.76E 42–7 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.4km s-min=16.5km az=150.5.
IDC Error ellipse: s-maj=24.1km s-min=20.9km az=109.0.
ISC III 17 22 00 37.7–.89 37.42N–.09 143.8E–.10 35 3.7b 21 5-80
IDC III 17 22 00 32.7–.93 37.50N 143.81E 0 3.9,3.8 **¶16479014**
ISCJB III 17 22 00 35.4–.74 37.43N–.08 143.8E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 22 06 30.3–1.3 38.1N–.10 143.3E–.20 19 3.4b 11 2-76
IDC III 17 22 06 26.5–1.1 38.10N 143.53E 0 3.7,3.5 **¶600554250**
ISCJB III 17 22 06 27.7–.98 38.1N–.10 143.3E–.10 19 3.4b,3.5
JMA III 17 22 06 29.5–.40 38.13N 142.89E 4 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=23.6km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=12.7km az=164.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 17 22 16 59.0–.94 37.1N–.10 144.1E–.10 35 3.5b 12 5-88
IDC III 17 22 16 53.9–.88 37.03N 144.29E 0 3.8,3.7 **¶17196831**
ISCJB III 17 22 16 57.0–.79 37.03N–.10 144.1E–.10 35 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 22 18 48.9–1.0 37.95N 143.92E 0 4.0,3.7b
¶17196833
IDC Error ellipse: s-maj=36.0km s-min=24.0km az=92.0.
ISC III 17 22 22 11.3–.60 37.96N–.07 142.75E–.07 18 4.0b 32 2-89
IDC III 17 22 22 08.7–.69 37.97N 142.82E 0 4.1,4.0 **¶16478726**
JMA III 17 22 22 09.6–.60 37.99N 142.90E 12 4.5,4.0
ISCJB III 17 22 22 09.4–.45 37.89N–.05 142.87E–.06 18 4.0b,4.0
NEIC III 17 22 22 13.9–.41 37.96N 142.72E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.7km az=134.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=6.7km az=139.7.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.3km az=149.0.
IDC III 17 22 37 23.3–3.8 35.81N 142.31E 0 3.6,3.4b
¶17196836
IDC Error ellipse: s-maj=101.7km s-min=34.0km az=55.0.
ISC III 17 22 39 19.9–2.2 36.68N–.10 142.2E–.10 19 3.2b 11 1-57
JMA III 17 22 39 14.8–.40 36.66N 142.38E 0 3.5 **¶17196837**
IDC III 17 22 39 19.5–2.7 37.25N 142.10E 0 3.6,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=68.1km s-min=31.1km az=60.0.
ISC III 17 22 41 10.6–1.0 37.5N–.10 143.72E–.10 35 3.6b 17 5-87
IDC III 17 22 41 05.3–.93 37.43N 143.77E 0 3.8,3.8s **¶16478727**
ISCJB III 17 22 41 08.3–.77 37.4N–.10 143.75E–.08 33 4.2s,3.6b
NEIC III 17 22 41 10.7–.60 37.48N 143.70E 35 4.0b,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=19.8km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=8.2km az=158.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=10.3km az=131.0.
ISC III 17 22 55 28.2–.62 37.89N–.06 144.73E–.06 35 4.1b 60 3-119
NEIC III 17 22 55 22.5–2.9 37.68N 144.90E 2–18 4.3b **¶602666372**
IDC III 17 22 55 22.1–.62 37.67N 144.86E 0 4.2,4.1
JMA III 17 22 55 26.8–.40 38.01N 144.67E 43 4.8,4.1
ISCJB III 17 22 55 26.0–.44 37.79N–.05 144.64E–.04 33 4.0b,4.1
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 17 23 01 24.7–.48 36.55N–.04 143.94E–.04 27–3 4.7b,3.9s 239 3-145
IDC III 17 23 01 20.1–.52 36.45N 144.06E 0 4.6,4.5 **¶16339120**
NEIC III 17 23 01 23.0–2.0 36.46N 144.01E 15–12 4.8b,4.5
MOS III 17 23 01 23.7–1.0 36.47N 143.96E 33 4.9b,4.5
ISCJB III 17 23 01 24.2–.19 36.50N–.03 143.88E–.03 37 4.7b,3.9s
JMA III 17 23 01 25.1–.40 36.56N 143.76E 52 4.6,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=12.3km az=130.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.7km az=133.0.
MOS Error ellipse: s-maj=9.1km s-min=6.3km az=107.5.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.9km az=161.3.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 17 23 05 14.6–.54 36.24N–.06 142.13E–.06 23 4.2b 58 1-147
NIED III 17 23 05 00 36.30N 142.20E 11 4.2W **¶16461900**
IDC III 17 23 05 10.7–.56 36.20N 142.25E 0 4.4,4.2
ISCJB III 17 23 05 12.4–.40 36.21N–.05 142.20E–.05 23 4.2b,4.2
JMA III 17 23 05 14.0–.30 36.32N 142.18E 59 4.0,4.2
NEIC III 17 23 05 16.1–.33 36.26N 142.20E 35 4.4b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s138.00000°,δ37.00000°,λ-28.00000°. NP2:ϕ_s251.00000°,δ74.00000°,λ-124.00000°. $M_0$2.54000×10^{15}
IDC Error ellipse: s-maj=14.9km s-min=14.3km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.3km az=160.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.6km az=177.0.
ISC III 17 23 18 42.6–.80 38.74N–.06 143.99E–.07 14 3.8b 44 2-87
IDC III 17 23 18 39.9–.89 38.61N 144.08E 0 4.0,3.9 **¶16478729**
NEIC III 17 23 18 41.5–3.6 38.64N 144.07E 9–21 4.0b,3.9
ISCJB III 17 23 18 41.2–.56 38.73N–.04 143.97E–.06 14 3.9b,3.9
JMA III 17 23 18 43.5–.30 38.74N 143.98E 48 4.3,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=18.5km az=97.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=140.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 17 23 21 15.0–2.9 38.36N 144.44E 0 3.7,3.5
¶17196842
IDC Error ellipse: s-maj=71.9km s-min=36.7km az=66.0.
ISC III 17 23 23 55.7–.74 37.7N–.10 143.72E–.09 35 4.0b 28 4-88
IDC III 17 23 23 50.4–.73 37.66N 143.75E 0 4.1,3.9 **¶16478730**
ISCJB III 17 23 23 53.6–.53 37.63N–.08 143.66E–.08 33 4.0b,3.3s
NEIC III 17 23 23 55.9–.59 37.72N 143.61E 35 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=16.0km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.1km az=148.3.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.4km az=153.0.
IDC III 17 23 34 20.5–1.4 37.18N 142.74E 0 3.7,3.5
¶17196844
IDC Error ellipse: s-maj=39.0km s-min=30.7km az=75.0.
ISC III 17 23 40 08.5–.91 36.5N–.10 143.15E–.08 29 3.5b 18 2-89
NIED III 17 23 40 00 36.70N 142.50E 35 3.7W **¶600554457**
IDC III 17 23 40 03.9–.95 36.40N 143.46E 0 3.9,3.8L
ISCJB III 17 23 40 06.7–.69 36.55N–.08 143.22E–.07 29 3.8b,3.8L
NEIC III 17 23 40 09.0–.61 36.42N 143.29E 35 4.0b,3.8L
JMA III 17 23 40 15.6–.30 36.69N 142.52E 39 3.5,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ52.00000°,λ-140.00000°. NP2:ϕ_s132.00000°,δ60.00000°,λ-45.00000°. $M_0$3.71000×10^{14}
IDC Error ellipse: s-maj=30.9km s-min=22.4km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=8.4km az=178.9.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=12.7km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 17 23 43 00.0–1.4 37.62N 144.10E 0 3.8,3.6
¶17196847
IDC Error ellipse: s-maj=33.4km s-min=28.4km az=81.0.
JMA III 17 23 43 57.8–.20 37.96N 142.61E 11 4.1
¶603049905
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 17 23 49 04.6–1.6 37.16N 145.00E 0 3.7,3.5
¶17196849
IDC Error ellipse: s-maj=37.9km s-min=34.1km az=113.0.
IDC III 17 23 49 58.9–3.5 37.44N 143.60E 0 3.6L,3.4
¶17196852
IDC Error ellipse: s-maj=78.8km s-min=42.0km az=56.0.
ISC III 17 23 56 42.4–1.1 36.5N–.20 143.3E–.10 35 3.8b 11 4-89
IDC III 17 23 56 37.1–1.2 36.61N 143.44E 0 4.0,4.0L **¶16478732**
ISCJB III 17 23 56 40.4–.94 36.5N–.20 143.3E–.10 35 3.8b,4.0L
NEIC III 17 23 56 42.4–.91 36.55N 143.29E 35 4.1b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=32.8km s-min=25.3km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=24.5km s-min=12.8km az=161.0.
NEIC Event type se. Error ellipse: s-maj=25.0km s-min=12.4km az=159.0.
ISC III 17 23 58 37.2–4.1 37.01N–.06 143.98E–.07 23–28 4.2b 73 3-145
NIED III 17 23 58 00 37.00N 143.80E 5 4.1W **¶16461903**
IDC III 17 23 58 33.1–.59 36.90N 144.15E 0 4.3,4.1
JMA III 17 23 58 37.8–.30 37.05N 143.82E 43 4.6,4.1
NEIC III 17 23 58 38.5–.39 36.97N 144.05E 35 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ28.00000°,λ-132.00000°. NP2:ϕ_s260.00000°,δ69.00000°,λ-70.00000°. $M_0$1.48000×10^{15}
IDC Error ellipse: s-maj=15.9km s-min=14.8km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=8.0km az=140.0.
ISC III 18 00 05 16.1–1.1 37.7N–.10 143.9E–.10 35 3.6b 10 5-69
IDC III 18 00 05 11.0–.95 37.70N 144.11E 0 3.8,3.7 **¶17196897**
ISCJB III 18 00 05 13.8–.87 37.7N–.10 143.9E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 00 09 51.0–1.4 38.0N–.10 143.2E–.10 18 3.5b 13 2-69
ISCJB III 18 00 09 48.5–1.2 37.94N–.08 143.3E–.20 18 3.5b **¶600554490**
IDC III 18 00 09 49.1–1.9 37.84N 142.81E 0 3.7,3.6
JMA III 18 00 09 50.4–.20 38.06N 143.09E 12 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.0km s-min=11.1km az=8.7.
IDC Error ellipse: s-maj=51.1km s-min=26.6km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 18 00 37 44.5–.74 39.26N–.07 143.73E–.08 11 3.7b 38 2-150
IDC III 18 00 37 42.7–.97 39.15N 143.70E 0 4.2,4.2s **¶16479042**
ISCJB III 18 00 37 43.6–.62 39.29N–.05 143.68E–.07 11 4.3s,3.7b
JMA III 18 00 37 44.5–.50 39.29N 143.70E 23 4.0,3.7b
NEIC III 18 00 37 44.4–4.8 39.16N 143.77E 12–28 4.2b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=20.0km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.1km az=27.2.
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=10.2km az=116.0.
ISC III 18 00 53 11.2–.78 37.1N–.10 142.55E–.09 9 4.2b 22 4-146
ISCJB III 18 00 53 09.6–.60 37.05N–.09 142.5E–.10 9 4.1b **¶16479043**
IDC III 18 00 53 09.8–.72 37.09N 142.52E 0 4.2,4.0
NEIC III 18 00 53 15.3–1.2 37.10N 142.46E 36–10 4.6b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=11.0km az=153.9.
IDC Error ellipse: s-maj=19.6km s-min=18.0km az=169.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.4km az=140.0.
ISC III 18 01 00 30.2–.00 37.64N–.06 143.71E–.08 35 3.7b 28 2-75
IDC III 18 01 00 24.6–1.3 37.48N 143.84E 0 3.9,3.7 **¶602671893**
JMA III 18 01 00 28.7–.40 37.66N 143.62E 37 3.8,3.7
ISCJB III 18 01 00 29.1–.83 37.71N–.05 143.65E–.07 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 01 07 21.6–4.0 38.36N–.05 144.11E–.07 33–28 4.1b 68 2-150
NIED III 18 01 07 00 38.30N 144.10E 5 4.1W **¶16427649**
IDC III 18 01 07 16.6–.62 38.25N 144.18E 0 4.2,4.0
JMA III 18 01 07 19.5–.40 38.34N 144.06E 43 4.5,4.0
ISCJB III 18 01 07 19.9–1.6 38.34N–.05 144.05E–.04 33–11 4.0b,4.0
NEIC III 18 01 07 20.9–2.5 38.27N 144.20E 30–17 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ30.00000°,λ-62.00000°. NP2:ϕ_s173.00000°,δ64.00000°,λ-105.00000°. $M_0$1.39000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=15.8km az=115.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.4km az=157.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.7km az=125.0.
ISC III 18 01 10 13.9–.81 37.2N–.10 144.32E–.08 26 3.7b 20 3-88
IDC III 18 01 10 09.7–.81 37.10N 144.53E 0 4.0,3.8 **¶17196904**
ISCJB III 18 01 10 12.1–.63 37.18N–.09 144.32E–.07 26 3.6b,3.8
JMA III 18 01 10 15.3–.30 37.18N 144.14E 54 3.9,3.8

ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=18.7km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.6km az=167.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 18 01 18 43.9–1.1 37.26N–.06 143.41E–.09 35 3.6b 25 2-69
IDC III 18 01 18 38.5–1.1 37.20N 143.60E 0 3.8,3.7L **¶17196906**
ISCJB III 18 01 18 41.9–.77 37.29N–.04 143.40E–.06 33 3.6b,3.7L
JMA III 18 01 18 42.8–.20 37.29N 143.34E 50 3.8,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=32.1km s-min=23.6km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.8km az=23.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 01 20 35.4–.69 37.25N–.06 142.68E–.08 25 4.0b 38 2-89
NIED III 18 01 20 00 37.30N 142.70E 5 4.3W **¶16427650**
IDC III 18 01 20 31.6–.79 37.11N 142.77E 0 4.1,3.9
JMA III 18 01 20 32.9–.20 37.28N 142.71E 29 4.3,3.9
NEIC III 18 01 20 32.4–3.8 37.19N 142.82E 7–24 4.3b,3.9
ISCJB III 18 01 20 33.3–.47 37.20N–.05 142.70E–.06 25 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ5.00000°,λ120.00000°. NP2:ϕ_s288.00000°,δ86.00000°,λ88.00000°. $M_0$3.23000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 18 01 32 46.8–.92 39.37N–.06 144.72E–.07 23 3.5b 29 3-79
IDC III 18 01 32 42.7–1.3 39.11N 144.95E 0 3.8,3.6 **¶17196909**
ISCJB III 18 01 32 45.8–.72 39.43N–.04 144.65E–.06 23 3.5b,3.6
JMA III 18 01 32 46.8–.30 39.36N 144.64E 46 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.4km s-min=25.5km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=39.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 18 01 37 43.3–.87 36.5N–.10 144.01E–.09 35 4.1b 34 5-81
IDC III 18 01 37 37.8–.91 36.40N 144.23E 0 4.0,3.9 **¶16427651**
ISCJB III 18 01 37 40.7–.61 36.44N–.09 144.03E–.07 33 4.1b,3.9
NEIC III 18 01 37 43.0–.61 36.45N 144.11E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=18.9km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=7.7km az=164.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.2km az=156.0.
ISC III 18 01 46 48.0–.85 37.6N–.10 142.09E–.09 24 3.6b 17 1-146
IDC III 18 01 46 45.0–.78 37.83N 142.10E 0 3.8,3.6 **¶602672443**
ISCJB III 18 01 46 46.2–.71 37.74N–.09 142.15E–.10 24 3.6b,3.6
JMA III 18 01 46 48.9–.30 37.47N 141.97E 32–5 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=19.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=8.5km az=144.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 02 12 40.1–1.3 37.7N–.20 144.3E–.20 35 3.5b 7 5-62
IDC III 18 02 12 34.8–1.2 37.68N 144.41E 0 3.7,3.5 **¶17196915**
ISCJB III 18 02 12 37.7–1.1 37.6N–.10 144.4E–.20 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
JMA III 18 02 12 46.5–.30 39.78N 143.17E 17 3.8
¶602672396
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 18 02 16 23.7–.58 37.86N–.07 143.51E–.06 19 4.2b 61 2-150
IDC III 18 02 16 20.2–.64 37.72N 143.63E 0 4.2,4.0 **¶600554698**
JMA III 18 02 16 21.7–.50 37.85N 143.42E 16 4.3,4.0
ISCJB III 18 02 16 22.0–.40 37.84N–.04 143.50E–.05 19 4.2b,4.0
NEIC III 18 02 16 24.6–2.3 37.72N 143.58E 28–16 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.7km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.0km az=154.7.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.0km az=138.0.
ISC III 18 02 17 48.4–.76 34.97N–.06 141.27E–.08 27 4.0b 23 0-80
JMA III 18 02 17 45.4–.30 34.94N 141.47E 52–3 3.4 **¶16461933**
ISCJB III 18 02 17 46.5–.60 34.94N–.05 141.34E–.07 27 3.9b
IDC III 18 02 17 52.7–3.5 34.93N 141.08E 66–30 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.4km az=149.3.
IDC Error ellipse: s-maj=24.7km s-min=18.6km az=90.0.
ISC III 18 02 19 13.9–.56 36.88N–.06 144.50E–.06 26 4.4b 78 3-150
IDC III 18 02 19 09.2–.68 36.67N 144.64E 0 4.4,4.2 **¶16427653**
JMA III 18 02 19 10.0–.40 36.82N 144.16E 0 4.6,4.2
NEIC III 18 02 19 11.5–3.6 36.66N 144.61E 16–22 4.5b,4.2
ISCJB III 18 02 19 12.7–.40 36.95N–.05 144.37E–.04 26 4.3b,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 18 02 24 10.1–1.2 37.6N–.20 143.9E–.20 35 3.6b 8 11-76
IDC III 18 02 24 04.8–1.2 37.61N 143.97E 0 3.8,3.6 **¶17196917**
ISCJB III 18 02 24 07.9–1.0 37.6N–.20 143.8E–.20 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 18 02 25 49.2–.30 39.26N 143.06E 9–4 3.6
¶17196918
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 18 02 26 00.5–2.0 38.5N–.20 143.9E–.20 14 3.8b 8 5-63
IDC III 18 02 25 58.2–2.2 38.55N 143.91E 0 3.9,3.8 **¶603049911**
ISCJB III 18 02 25 58.5–1.5 38.5N–.10 143.9E–.30 14 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 02 31 56.4–1.6 34.93N–.06 141.30E–.08 24–11 3.8b 27 0-119
NIED III 18 02 31 00 34.90N 141.50E 23 4.3W **¶602672357**
JMA III 18 02 31 53.8–.30 34.90N 141.50E 29–3 3.6
ISCJB III 18 02 31 55.3–1.1 34.88N–.05 141.36E–.07 26–6 3.8b
IDC III 18 02 32 01.8–3.2 34.94N 141.08E 68–29 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s242.00000°,δ44.00000°,λ163.00000°. NP2:ϕ_s345.00000°,δ78.00000°,λ47.00000°. $M_0$3.41000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=8.3km az=151.4.
IDC Error ellipse: s-maj=25.2km s-min=18.6km az=90.0.
ISC III 18 02 57 23.4–1.4 37.7N–.10 142.8E–.10 24 3.8b 13 2-69
JMA III 18 02 57 17.6–.50 37.61N 142.82E 0 3.7 **¶17196921**
IDC III 18 02 57 20.0–2.9 37.69N 142.82E 0 3.9,3.8
ISCJB III 18 02 57 21.0–1.1 37.64N–.10 142.9E–.10 24 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 03 15 33.7–1.2 36.9N–.10 143.0E–.20 25 3.6b 9 4-61
IDC III 18 03 15 30.0–1.1 36.98N 143.09E 0 3.8,3.6 **¶17196925**
ISCJB III 18 03 15 31.5–1.0 36.84N–.09 143.1E–.20 25 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 03 21 44.8–.77 38.48N–.06 144.62E–.07 29 4.1b 45 3-118
JMA III 18 03 21 43.9–.20 38.55N 144.62E 52 4.3 **¶16427658**
NEIC III 18 03 21 43.7–2.7 38.39N 144.64E 23–18 4.4b
ISCJB III 18 03 21 43.3–.52 38.53N–.04 144.56E–.04 29 4.0b
IDC III 18 03 21 45.2–6.9 38.36N 144.68E 33–53 4.0L,3.9
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=7.1km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=149.0.
IDC Error ellipse: s-maj=26.5km s-min=18.8km az=139.0.
ISC III 18 03 23 56.2–.43 37.79N–.03 143.51E–.03 23–2 5.5b,5.0s 1460 2-163
NIED III 18 03 23 00 37.80N 143.40E 5 5.5W,5.0s **¶16334584**
IDC III 18 03 23 52.2–.35 37.73N 143.65E 0 5.2,5.1
GCMT III 18 03 23 53.8–.10 37.86N 143.47E 12 5.5W,5.1
NEIC III 18 03 23 53.8–1.2 37.76N 143.49E 6–7 5.6b,5.0s
BJI III 18 03 23 54.5 37.87N 143.28E 9 5.5s,5.4b
ISCJB III 18 03 23 54.8–.09 37.77N–.02 143.49E–.02 22 5.4b,5.1s
JMA III 18 03 23 55.0–.30 37.80N 143.45E 44 5.5,5.1s
MOS III 18 03 23 57.0–1.0 37.88N 143.50E 33 5.6b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ23.00000°,λ-85.00000°. NP2:ϕ_s193.00000°,δ67.00000°,λ-92.00000°. $M_0$1.76000×10^{17}
IDC Error ellipse: s-maj=10.8km s-min=9.5km az=90.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s97,c176; s133,c316;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49±.01 $M_{\theta\theta}$0.06±.01; $M_{\phi\phi}$1.43±.01; $M_{r\theta}$0.29±.04; $M_{\theta\phi}$0.34±.01; $M_{\theta r}$1.22±.04; Best double couple: NP1:ϕ_s193.00000°,δ65.00000°,λ-90.00000°. NP2:ϕ_s13.00000°,δ25.00000°,λ-90.00000°. Principal axes: T 1.9650,Plg20.0000°,Azm283.0000°; N -0.0180,Plg0.0000°,Azm13.0000° ; P -1.9450,Plg70.0000°,Azm104.0000° $M_0$1.95500×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=1.9km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.7km az=164.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=3.9km az=104.1.
JMA III 18 03 48 31.5–.40 37.64N 142.87E 13 3.7
¶602671698
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
JMA III 18 03 59 51.0–.40 36.62N 142.19E 1 3.7
¶602671216
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 18 04 05 10.7–1.0 37.73N–.06 144.01E–.08 35 3.8b 31 3-62
IDC III 18 04 05 06.6–1.3 37.72N 144.22E 0 4.0,4.0 **¶17196930**
ISCJB III 18 04 05 09.3–.69 37.69N–.04 143.93E–.06 33 3.8b,4.0
JMA III 18 04 05 10.8–.40 37.69N 143.83E 50 4.1,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=29.8km s-min=22.5km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.0km az=34.2.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 18 04 12 34.9–.50 38.07N 143.22E 12 3.5
¶602671181
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 18 04 17 13.4–1.5 36.77N–.09 142.6E–.10 35 3.6b 16 1-60
IDC III 18 04 17 06.0–2.8 36.88N 143.17E 0 3.7,3.7s **¶17196931**
JMA III 18 04 17 11.7–.30 36.83N 142.53E 25 3.5,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=76.4km s-min=30.4km az=61.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 18 04 30 46.9–.93 38.60N–.10 143.53E–.07 15 3.9b 14 2-73
IDC III 18 04 30 46.5–1.0 38.41N 144.73E 0 4.0,3.8 **¶17196932**
JMA III 18 04 31 00.4–.30 38.25N 142.33E 36 3.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=21.5km az=138.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 18 04 35 39.3–.62 37.74N–.05 143.85E–.07 35 4.1b,3.6s 54 2-81
NIED III 18 04 35 00 37.80N 143.90E 5 4.1W,3.6s **¶16427659**
IDC III 18 04 35 34.1–.81 37.64N 144.01E 0 4.1,4.0
NEIC III 18 04 35 35.9–3.3 37.67N 144.00E 12–20 4.5b,4.0
JMA III 18 04 35 37.2–.50 37.77N 143.86E 47 4.5,4.0
ISCJB III 18 04 35 37.1–.42 37.69N–.04 143.81E–.05 33 4.1b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ38.00000°,λ-132.00000°. NP2:ϕ_s240.00000°,δ63.00000°,λ-62.00000°. $M_0$1.75000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 18 04 40 53.3–1.3 37.71N–.08 142.02E–.09 24 3.3b 9 1-58
ISCJB III 18 04 40 51.9–1.1 37.71N–.09 142.13E–.09 24 3.3b **¶600554988**
JMA III 18 04 40 54.6–.20 37.70N 141.97E 24–3 3.6
IDC III 18 04 40 59.8–4.8 37.69N 141.86E 82–47 3.2,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=10.3km az=159.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=45.9km s-min=28.0km az=103.0.
IDC III 18 04 49 16.1–2.7 37.14N 143.27E 0 3.9,3.8b
¶17196937
IDC Error ellipse: s-maj=71.5km s-min=30.3km az=64.0.
ISC III 18 04 51 50.1–.93 38.4N–.20 144.7E–.10 10 3.7b 10 6-87
IDC III 18 04 51 48.7–1.1 38.43N 144.75E 0 3.9,3.6 **¶17196938**
ISCJB III 18 04 51 48.4–.81 38.4N–.10 144.7E–.10 10 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 04 55 07.8–.81 37.80N–.07 144.61E–.07 35 3.6b 32 3-88
IDC III 18 04 55 01.8–.78 37.58N 144.71E 0 4.0,3.8 **¶17196939**
ISCJB III 18 04 55 06.6–.65 37.87N–.05 144.56E–.05 33 3.6b,3.8
JMA III 18 04 55 07.3–.30 37.85N 144.53E 50 4.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=22.9km s-min=19.5km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.7km az=7.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 18 05 08 55.7–1.5 37.77N–.08 142.8E–.10 18 3.7b 16 2-58
IDC III 18 05 08 51.0–2.6 37.83N 143.31E 0 3.8,3.7 **¶16479096**
ISCJB III 18 05 08 53.3–1.2 37.65N–.08 143.0E–.10 18 3.6b,3.7
JMA III 18 05 08 54.1–.60 37.71N 142.63E 0 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=66.6km s-min=30.5km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=10.9km az=179.3.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 18 05 09 42.3–.47 37.84N–.07 143.60E–.09 19 4.7b 62 4-148
IDC III 18 05 09 39.1–.72 37.80N 143.64E 0 4.2,4.0 **¶17196940**
ISCJB III 18 05 09 40.6–.29 37.80N–.05 143.55E–.06 19 4.5b,4.0
NEIC III 18 05 09 44.6–.71 37.83N 143.54E 35–6 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=16.9km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.9km az=40.8.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.0km az=117.0.
ISC III 18 05 12 25.8–.62 36.47N–.09 143.09E–.08 29 4.6b 71 4-146
IDC III 18 05 12 21.0–.68 36.41N 143.27E 0 4.2,4.1 **¶602672294**
ISCJB III 18 05 12 23.8–.34 36.40N–.06 143.19E–.06 29 4.4b,4.1
NEIC III 18 05 12 25.0–1.6 36.43N 143.21E 22–11 4.8b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=16.3km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.6km az=151.3.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=139.0.
ISC III 18 05 23 19.2–.56 37.81N–.07 143.46E–.06 19 4.6b 78 2-150
ISCJB III 18 05 23 17.8–.37 37.81N–.05 143.47E–.04 19 4.5b,4.1s **¶16442632**
JMA III 18 05 23 19.6–.40 37.92N 143.49E 40 4.2,4.1s
NEIC III 18 05 23 21.4–.97 37.67N 143.47E 40–9 4.7b,4.1s
IDC III 18 05 23 24.2–3.1 37.60N 143.42E 73–28 4.0s,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=3.9km az=174.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.9km az=134.0.
IDC Error ellipse: s-maj=20.0km s-min=16.9km az=119.0.
ISC III 18 06 02 02.2–1.1 37.3N–.10 142.59E–.09 21 3.6b 14 1-75
IDC III 18 06 01 58.7–1.2 37.29N 142.64E 0 3.8,3.7b **¶17196942**
JMA III 18 06 01 59.6–.20 37.42N 142.59E 0 4.0,3.7b
ISCJB III 18 06 01 60.0–.97 37.3N–.10 142.75E–.08 21 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 06 19 25.0–1.4 37.87N 144.13E 0 3.6,3.5L
¶17196946
IDC Error ellipse: s-maj=38.4km s-min=28.8km az=119.0.
ISC III 18 06 52 18.1–1.1 36.0N–.20 142.0E–.10 23 3.4b 9 3-64
IDC III 18 06 52 14.6–.97 36.02N 142.10E 0 3.7,3.5 **¶17196949**
ISCJB III 18 06 52 15.8–.90 36.0N–.10 142.1E–.10 23 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.

IDC III 18 06 52 31.0–10 37.58N 143.00E 0 4.2,4.0b
¶17196952

IDC Error ellipse: s-maj=214.4km s-min=51.9km az=18.0.
ISC III 18 07 27 41.1–.85 38.15N–.10 143.4E–.10 19 3.9b 27 4-82
IDC III 18 07 27 37.9–1.1 38.11N 143.37E 0 3.8,3.8b ¶16442635
ISCJB III 18 07 27 39.1–.65 38.17N–.07 143.5E–.10 19 4.1b,3.8b
NEIC III 18 07 27 44.2–.98 38.15N 143.38E 45–9 4.7b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=23.3km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.4km az=33.4.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.1km az=100.0.
ISC III 18 07 35 50.3–.65 38.38N–.07 144.58E–.07 29 4.2b 55 3-87
IDC III 18 07 35 45.1–.78 38.21N 144.75E 0 4.1,3.9 ¶16442637
NEIC III 18 07 35 47.4–2.8 38.25N 144.73E 14–17 4.6b,3.9
ISCJB III 18 07 35 48.1–.39 38.29N–.05 144.58E–.04 29 4.2b,3.9
JMA III 18 07 35 49.1–.20 38.42N 144.53E 40 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=19.1km az=89.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=176.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 18 07 41 32.7–.88 39.22N–.05 143.03E–.04 32–5 4.7b,3.7s 236 1-145
JMA III 18 07 41 28.1–.30 39.21N 143.05E 12–3 4.8,3.7s ¶16334590
ISCJB III 18 07 41 29.1–.87 39.19N–.03 143.02E–.03 17–6 4.6b,3.6s
MOS III 18 07 41 31.3–.83 39.29N 142.98E 30 4.9b,3.6s
IDC III 18 07 41 31.4–6.1 39.11N 143.05E 28–42 4.2,4.2
NEIC III 18 07 41 33.4–.56 39.22N 142.97E 35–5 4.8b,4.2
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.8km az=161.6.
MOS Error ellipse: s-maj=7.8km s-min=5.5km az=99.2.
IDC Error ellipse: s-maj=15.8km s-min=12.6km az=129.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=143.0.
ISC III 18 07 42 13.3–.52 38.35N–.08 143.2E–.10 23 4.3b 37 4-88
ISCJB III 18 07 42 11.3–.34 38.30N–.06 143.25E–.10 23 4.3b ¶17196960
IDC III 18 07 42 13.2–.95 38.34N 143.26E 24–5 4.2,4.2L
NEIC III 18 07 42 13.2–2.3 38.34N 143.23E 23–16 4.9b,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=6.7km az=27.1.
IDC Error ellipse: s-maj=26.6km s-min=18.2km az=116.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=4.9km az=115.0.
ISC III 18 08 09 40.4–1.5 39.9N–.10 143.5E–.10 6 3.7b 12 2-60
IDC III 18 08 09 36.3–2.9 39.80N 143.85E 0 3.9,3.8b ¶17196962
ISCJB III 18 08 09 37.9–1.2 39.8N–.10 143.6E–.10 6 3.6b,3.8b
JMA III 18 08 09 39.7–.60 39.87N 143.49E 8 3.8,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=69.8km s-min=31.2km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=10.6km az=164.8.
JMA Error ellipse: s-maj=3.3km s-min=4.3km az=-1.0.
ISC III 18 08 21 42.5–1.5 37.10N–.09 142.06E–.10 21 3.5b 13 1-61
IDC III 18 08 21 36.3–1.2 37.42N 142.69E 0 3.9L,3.7 ¶600555261
JMA III 18 08 21 42.3–.20 37.15N 142.10E 25–3 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=22.3km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 18 08 26 47.6–.69 37.70N–.09 143.3E–.10 35 4.2b 38 4-146
IDC III 18 08 26 42.5–.83 37.68N 143.43E 0 4.1,3.8L ¶16442638
NEIC III 18 08 26 45.2–4.0 37.69N 143.32E 18–25 4.6b,3.8L
ISCJB III 18 08 26 45.3–.39 37.68N–.06 143.24E–.08 33 4.3b,2.5s
ISC Event type se.
NEIC Event type fe. Recorded [3 JMA] in Chiba.
ISCJB Event type fe.
ISC III 18 08 36 22.0–.89 37.05N–.06 143.71E–.09 35 4.0b 24 2-89
IDC III 18 08 36 16.7–.96 36.89N 143.91E 0 4.0,3.9 ¶16479125
ISCJB III 18 08 36 19.8–.70 37.01N–.05 143.69E–.06 33 3.8b,3.9
JMA III 18 08 36 21.2–.30 37.14N 143.56E 31 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=19.1km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.6km az=140.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 18 08 36 56.3–14 37.54N 144.37E 0 4.0,3.8
¶17196966

IDC Error ellipse: s-maj=310.9km s-min=51.7km az=20.0.
ISC III 18 08 37 13.9–.63 37.75N–.09 144.11E–.09 35 4.6b 50 4-82
IDC III 18 08 37 08.8–.76 37.72N 144.09E 0 4.1,3.9 ¶17196968
ISCJB III 18 08 37 11.8–.32 37.68N–.05 144.09E–.06 33 4.5b,3.9
NEIC III 18 08 37 14.8–1.1 37.73N 144.07E 42–11 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=16.9km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.7km az=141.3.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=6.3km az=117.0.
ISC III 18 08 37 23.3–.90 37.6N–.20 144.1E–.10 35 4.0b 12 5-76
IDC III 18 08 37 18.3–.82 37.62N 144.18E 0 4.2,4.0 ¶17196972
ISCJB III 18 08 37 21.1–.71 37.6N–.10 144.1E–.20 33 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 08 48 35.9–1.2 37.52N 144.33E 0 3.8,3.5
¶17196976

IDC Error ellipse: s-maj=36.5km s-min=26.2km az=98.0.
JMA III 18 08 56 29.1–.50 37.53N 144.43E 42 4.0
¶602670382

JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 18 09 15 49.8–.30 37.75N 142.39E 0 3.7
¶602671679

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 18 09 51 40.0–1.1 36.61N–.05 142.34E–.08 15 3.6b 23 1-75
NIED III 18 09 51 00 36.60N 142.40E 5 3.7W ¶17196986
IDC III 18 09 51 37.6–1.8 36.68N 142.49E 0 3.7,3.7
ISCJB III 18 09 51 38.5–.83 36.65N–.04 142.46E–.08 15 3.6b,3.7
JMA III 18 09 51 41.2–.30 36.65N 142.36E 55 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ61.00000°,λ152.00000°. NP2:ϕ_s40.00000°,δ66.00000°,λ32.00000°. M_ω3.89000×10^{14}
IDC Error ellipse: s-maj=48.5km s-min=22.2km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.0km az=166.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC III 18 09 53 23.3–4.7 36.01N 143.40E 0 3.6,3.5
¶17196987

IDC Error ellipse: s-maj=92.2km s-min=42.1km az=28.0.
ISC III 18 10 17 23.7–1.2 39.6N–.10 144.8E–.10 38 3.4b 9 6-60
IDC III 18 10 17 18.1–1.3 39.55N 144.90E 0 3.6,3.5 ¶17196990
ISCJB III 18 10 17 21.8–1.1 39.6N–.10 144.7E–.20 38 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 10 18 03.6–2.8 36.59N 143.54E 0 3.8,3.7L
¶17196991

IDC Error ellipse: s-maj=75.2km s-min=29.7km az=62.0.
ISC III 18 10 23 28.6–1.5 37.62N–.08 142.27E–.09 14 3.8b 13 1-61
IDC III 18 10 23 24.2–2.5 37.84N 142.97E 0 3.7,3.6 ¶17196995
ISCJB III 18 10 23 26.6–1.1 37.69N–.09 142.50E–.08 14 3.8b,3.6
JMA III 18 10 23 30.4–.20 37.69N 142.26E 13–3 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=67.3km s-min=27.1km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=9.2km az=10.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 10 25 17.7–.72 37.67N–.06 143.94E–.07 35 3.9b 41 2-88
IDC III 18 10 25 12.1–.69 37.47N 144.11E 0 4.1,3.9 ¶16479154
NEIC III 18 10 25 13.6–.46 37.44N 144.12E 10 4.1b,3.9
JMA III 18 10 25 15.9–.30 37.63N 143.84E 43 4.2,3.9
ISCJB III 18 10 25 15.4–.48 37.55N–.05 143.89E–.04 33 4.0b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 18 10 30 03.2–13 36.88N 143.45E 0 3.9,3.7b
¶603229654

IDC Error ellipse: s-maj=295.1km s-min=49.3km az=26.0.
ISC III 18 10 35 10.4–.79 39.89N–.07 143.28E–.09 6 4.1b 33 1-150
ISCJB III 18 10 35 08.1–.64 39.83N–.05 143.43E–.09 6 4.0b ¶16461934
IDC III 18 10 35 09.3–.88 39.83N 143.21E 0 4.0,3.9
JMA III 18 10 35 13.4–.30 39.94N 143.15E 26 4.1,3.9
NEIC III 18 10 35 14.6–.46 39.88N 143.19E 35 4.5b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=6.8km az=27.5.
IDC Error ellipse: s-maj=22.7km s-min=17.3km az=109.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=6.9km az=114.0.
ISC III 18 10 36 17.8–1.1 37.6N–.20 144.0E–.20 35 3.8b 6 5-76
IDC III 18 10 36 12.5–.98 37.57N 143.96E 0 4.0,3.8L ¶17196998
ISCJB III 18 10 36 15.5–.91 37.5N–.20 143.8E–.10 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 10 39 08.4–.45 37.43N–.05 144.50E–.05 35 4.6b,3.7s 227 3-144
IDC III 18 10 39 01.9–.54 37.23N 144.51E 0 4.5,4.4 ¶602669690
NEIC III 18 10 39 04.3–2.5 37.26N 144.42E 10–15 4.7b,4.4
MOS III 18 10 39 05.4–.92 37.39N 144.37E 27 4.8b,4.4
JMA III 18 10 39 07.2–.30 37.51N 144.26E 41 5.0,4.4
ISCJB III 18 10 39 07.2–.25 37.54N–.04 144.27E–.03 33 4.5b,3.6s
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
JMA III 18 11 03 54.0–.20 37.46N 142.45E 0 3.8
¶602669595

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 11 14 22.3–.72 36.26N–.05 142.01E–.07 19 4.0b 35 1-81
NIED III 18 11 14 00 36.30N 141.90E 23 3.9W ¶600555629
IDC III 18 11 14 19.4–1.7 36.28N 142.10E 0 4.1,4.0
ISCJB III 18 11 14 20.6–.53 36.22N–.04 142.09E–.06 19 4.1b,4.0
JMA III 18 11 14 24.2–.20 36.30N 141.85E 46 3.8,4.0
NEIC III 18 11 14 24.4–.42 36.22N 142.05E 35 4.0b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ28.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ62.00000°,λ90.00000°. M_ω7.23000×10^{14}
IDC Error ellipse: s-maj=41.4km s-min=22.9km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.4km az=18.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=8.5km az=101.0.
ISC III 18 11 17 11.5–.78 38.67N–.09 144.2E–.10 29 3.6b 16 5-87
IDC III 18 11 17 07.4–.78 38.77N 144.32E 0 3.8,3.7 ¶17197006
ISCJB III 18 11 17 09.9–.66 38.70N–.08 144.2E–.10 29 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 11 20 45.9–.60 37.71N–.05 143.62E–.06 35 4.1b 60 2-88
NIED III 18 11 20 00 37.70N 143.60E 8 4.0W ¶16479168
IDC III 18 11 20 40.9–.68 37.63N 143.75E 0 4.2,4.0
NEIC III 18 11 20 42.6–.47 37.70N 143.70E 10 4.5b,4.0
JMA III 18 11 20 44.1–.40 37.72N 143.59E 45 4.2,4.0
ISCJB III 18 11 20 44.1–.40 37.73N–.03 143.57E–.04 33 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ24.00000°,λ-90.00000°. NP2:ϕ_s205.00000°,δ66.00000°,λ-90.00000°. M_ω1.26000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC III 18 11 23 56.5–1.6 36.32N 143.67E 0 3.9,3.7b
¶17197007

IDC Error ellipse: s-maj=45.5km s-min=26.6km az=140.0.
IDC III 18 11 47 50.1–3.4 36.48N 143.70E 0 3.9,3.8
¶17197008

IDC Error ellipse: s-maj=62.4km s-min=40.3km az=9.0.
JMA III 18 12 18 52.7–.40 37.26N 144.12E 53 4.5
¶602670767

JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC III 18 12 24 50.9–1.6 37.54N 143.85E 0 3.9,3.7L
¶17197011

IDC Error ellipse: s-maj=56.4km s-min=31.3km az=128.0.
ISC III 18 12 33 33.9–.78 37.7N–.10 143.0E–.10 24 4.0b 21 4-75
IDC III 18 12 33 30.7–.86 37.84N 143.00E 0 4.0,3.8 ¶16479177
ISCJB III 18 12 33 31.7–.62 37.68N–.07 143.0E–.10 24 3.9b,3.8
NEIC III 18 12 33 35.4–.50 37.71N 142.95E 35 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=18.2km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=9.6km az=22.5.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.0km az=112.0.
ISC III 18 12 40 08.8–.63 37.62N–.05 143.99E–.06 35 4.0b 49 3-79
IDC III 18 12 40 03.6–.64 37.51N 144.15E 0 4.2,4.1L ¶16479180
JMA III 18 12 40 07.7–.30 37.73N 143.91E 38 4.5,4.1L
ISCJB III 18 12 40 07.1–.42 37.64N–.04 143.96E–.04 33 4.0b,4.1L
NEIC III 18 12 40 09.1–.53 37.59N 144.10E 35 4.1b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.6km az=109.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=2.2.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=9.7km az=129.0.
IDC III 18 12 50 18.1–4.7 36.65N 143.37E 0 3.7,3.6
¶17197017

IDC Error ellipse: s-maj=89.3km s-min=46.2km az=22.0.
JMA III 18 12 51 10.4–.40 37.11N 142.52E 14 3.4
¶603049919

JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 18 12 57 08.4–1.3 39.71N–.05 144.44E–.05 26–8 4.5b,3.7s 185 2-146
IDC III 18 12 57 03.9–.60 39.58N 144.45E 0 4.5,4.4 ¶602670705
ISCJB III 18 12 57 05.7–1.1 39.79N–.03 144.32E–.03 14–7 4.5b,3.7s
NEIC III 18 12 57 06.5–.27 39.72N 144.36E 10 4.7b,3.7s
JMA III 18 12 57 07.2–.30 39.75N 144.34E 44 4.6,3.7s
MOS III 18 12 57 08.6–1.0 39.85N 144.33E 34 4.9b,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=13.5km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=150.2.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.1km az=154.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=5.5km az=102.4.
ISC III 18 13 01 00.1–1.7 36.9N–.20 142.9E–.10 25 3.9b 15 2-89
IDC III 18 13 00 47.3–1.6 35.65N 143.68E 0 4.1,4.0 ¶16479184
NEIC III 18 13 00 52.8–1.0 35.68N 143.51E 35 4.6b,4.0
JMA III 18 13 00 54.1–.40 36.86N 143.22E 32 4.0,4.0
ISC Event type se.
IDC Error ellipse: s-maj=50.9km s-min=21.8km az=176.0.
NEIC Event type se. Error ellipse: s-maj=24.8km s-min=13.4km az=164.0.
JMA Error ellipse: s-maj=4.4km s-min=2.7km az=-1.0.
ISC III 18 13 15 41.3–.62 37.59N–.06 143.85E–.07 35 4.1b 65 2-88
IDC III 18 13 15 36.4–.66 37.50N 144.06E 0 4.1,4.0 ¶16479185
ISCJB III 18 13 15 39.2–.36 37.53N–.04 143.84E–.04 33 4.1b,3.3s
JMA III 18 13 15 40.3–.30 37.81N 143.72E 33 4.1,3.3s
NEIC III 18 13 15 41.1–.37 37.52N 143.97E 35 4.7b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=14.1km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=165.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.7km az=141.0.
ISC III 18 13 17 51.9–.86 39.5N–.10 144.5E–.10 23 3.7b 19 6-76
IDC III 18 13 17 48.2–.88 39.51N 144.49E 0 3.8,3.7 ¶17197019
ISCJB III 18 13 17 49.9–.68 39.52N–.08 144.4E–.10 23 3.7b,3.7
ISC Event type ke.

ISCJB Event type ke.
ISC III 18 13 38 41.5–.41 37.70N–.03 143.44E–.04 30–2 5.0b,4.6s 576 2-154
IDC III 18 13 38 37.2–.40 37.66N 143.48E 0 4.7,4.7 **¶16336111**
JMA III 18 13 38 38.7–.30 37.69N 143.48E 39 5.0,4.7
ISCJB III 18 13 38 38.1–.77 37.69N–.02 143.37E–.02 14–4 4.9b,4.5s
NEIC III 18 13 38 39.6–2.2 37.69N 143.41E 15–13 5.0b,4.5s
BJI III 18 13 38 41.1 37.82N 143.08E 20 5.2b,5.1b
MOS III 18 13 38 42.2–1.0 38.08N 143.33E 29 5.3b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=11.3km s-min=10.3km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.4km az=157.3.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=146.0.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=105.3.
ISC III 18 13 44 07.8–.60 37.58N–.08 143.43E–.07 35 4.1b 53 4-145
IDC III 18 13 44 02.9–.65 37.63N 143.51E 0 4.1,4.0 **¶16479192**
ISCJB III 18 13 44 05.9–.39 37.57N–.05 143.40E–.05 33 4.1b,4.0
NEIC III 18 13 44 08.0–.33 37.65N 143.41E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=15.0km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.8km az=144.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.9km az=146.0.
ISC III 18 13 47 15.6–2.0 37.62N–.05 142.06E–.08 28–14 3.9b 40 1-146
ISCJB III 18 13 47 15.9–.99 37.60N–.04 142.13E–.08 47–9 3.9b **¶602670565**
JMA III 18 13 47 16.0–.20 37.66N 142.07E 26 4.2
IDC III 18 13 47 17.8–2.2 37.61N 142.03E 47–23 4.0,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=6.5km az=9.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=13.6km az=92.0.
ISC III 18 14 16 31.7–.75 37.22N–.05 143.53E–.09 35 3.7b 28 3-89
IDC III 18 14 16 26.4–.82 37.15N 143.73E 0 4.0,3.8 **¶17197026**
ISCJB III 18 14 16 29.9–.58 37.26N–.04 143.53E–.07 33 3.8b,3.8
JMA III 18 14 16 30.1–.60 37.22N 143.52E 50 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=22.6km s-min=17.2km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.8km az=175.4.
JMA Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.
ISC III 18 14 19 16.4–.93 37.52N–.10 143.54E–.10 35 3.4b 13 4-76
IDC III 18 14 19 11.5–1.1 37.64N 143.61E 0 3.8,3.7L **¶17197027**
ISCJB III 18 14 19 14.2–.88 37.5N–.10 143.6E–.10 33 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 14 23 38.3–1.9 39.18N–.06 143.1E–.10 44–17 3.8b 37 1-88
JMA III 18 14 23 33.5–.30 39.19N 143.10E 10–3 4.3 **¶16461937**
ISCJB III 18 14 23 36.4–1.1 39.14N–.05 143.08E–.09 45–10 3.8b
IDC III 18 14 23 39.5–2.6 39.12N 143.08E 59–23 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.3km az=13.2.
IDC Error ellipse: s-maj=20.6km s-min=12.5km az=116.0.
ISC III 18 14 29 09.8–.80 36.00N–.09 143.39E–.09 35 3.5b 16 4-128
IDC III 18 14 29 04.6–.87 36.03N 143.55E 0 3.7,3.5 **¶17197028**
ISCJB III 18 14 29 07.9–.64 35.96N–.07 143.34E–.08 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 14 31 14.9–.51 37.69N–.04 143.48E–.04 29–2 4.7b,3.7s 294 2-145
NIED III 18 14 31 00 37.70N 143.60E 14 4.2W,3.7s **¶602669553**
JMA III 18 14 31 10.4–.50 37.69N 143.58E 27 4.5,3.7s
IDC III 18 14 31 10.8–.55 37.67N 143.49E 0 4.5,4.4
ISCJB III 18 14 31 14.4–.24 37.70N–.03 143.36E–.03 33 4.7b,3.5s
MOS III 18 14 31 15.8–.88 37.94N 143.28E 33 5.0b,3.5s
NEIC III 18 14 31 16.3–1.0 37.68N 143.37E 36–9 4.8b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s247.00000°,δ50.00000°,λ146.00000°. NP2:ϕ_s1.00000°,δ65.00000°,λ46.00000°. $M_0$2.59000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=11.5km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=140.0.
MOS Error ellipse: s-maj=8.4km s-min=5.1km az=114.7.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.6km az=131.0.
IDC III 18 14 38 28.9–3.1 40.01N 146.21E 0 3.6,3.5L
¶17197031
IDC Error ellipse: s-maj=74.9km s-min=39.3km az=59.0.
ISC III 18 14 55 52.1–1.8 37.86N–.06 143.1E–.10 35 3.5b 16 2-62
NIED III 18 14 55 00 37.90N 143.30E 8 3.6W **¶17197038**
IDC III 18 14 55 40.4–1.2 37.74N 144.35E 0 3.7,3.6
JMA III 18 14 55 44.8–.50 37.94N 143.28E 11 3.6,3.6
ISCJB III 18 14 55 47.7–1.2 37.72N–.06 143.2E–.10 33 3.6b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ47.00000°,λ-133.00000°. NP2:ϕ_s233.00000°,δ57.00000°,λ-54.00000°. $M_0$3.01000×10^{14}
ISCJB Event type ke.
IDC III 18 14 57 10.7–1.3 37.18N 142.36E 0 3.7,3.6
¶17197039
IDC Error ellipse: s-maj=32.9km s-min=23.5km az=69.0.
ISC III 18 15 02 58.7–.34 36.72N–.04 143.22E–.04 33–1 4.7b,4.0s 447 2-153
NIED III 18 15 02 00 36.70N 143.00E 5 4.5W,4.0s **¶16336113**
IDC III 18 15 02 54.3–.42 36.68N 143.22E 0 4.6,4.5
ISCJB III 18 15 02 55.8–.97 36.69N–.03 143.12E–.02 19–6 4.7b,4.0s
NEIC III 18 15 02 59.3–.17 36.64N 143.14E 35 4.8b,4.0s
JMA III 18 15 02 59.2–.40 36.69N 142.95E 59 4.5,4.0s
MOS III 18 15 02 59.5–.98 37.06N 143.12E 34 5.0b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ44.00000°,λ-80.00000°. NP2:ϕ_s33.00000°,δ47.00000°,λ-99.00000°. $M_0$6.68000×10^{15}
IDC Error ellipse: s-maj=11.5km s-min=10.5km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.0km az=165.1.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.6km az=105.9.
IDC III 18 15 13 58.2–1.3 38.29N 145.81E 0 3.6L,3.5
¶17197040
IDC Error ellipse: s-maj=40.2km s-min=28.8km az=105.0.
ISC III 18 15 16 00.8–1.5 37.5N–.10 142.50E–.10 21 3.4b 16 1-58
IDC III 18 15 15 56.0–2.8 37.53N 142.94E 0 3.5,3.4 **¶17197041**
JMA III 18 15 15 57.8–.30 37.39N 142.54E 0 3.7,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=68.9km s-min=33.2km az=65.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 18 15 23 22.0–4.1 35.10N 142.92E 0 3.6,3.5b
¶17197042
IDC Error ellipse: s-maj=131.0km s-min=24.9km az=60.0.
ISC III 18 15 37 29.8–.71 38.17N–.06 144.67E–.07 35 3.6b 37 3-87
NIED III 18 15 37 00 38.20N 144.60E 5 3.9W **¶17197046**
IDC III 18 15 37 24.3–.73 38.02N 144.90E 0 3.9,3.8
JMA III 18 15 37 27.1–.50 38.24N 144.64E 41 4.4,3.8
ISCJB III 18 15 37 27.8–.52 38.18N–.05 144.60E–.05 33 3.6b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ23.00000°,λ-103.00000°. NP2:ϕ_s217.00000°,δ68.00000°,λ-84.00000°. $M_0$7.16000×10^{14}
ISCJB Event type ke.
IDC III 18 15 51 15.8–15 36.28N 146.16E 0 3.5L,3.4
¶17197048
IDC Error ellipse: s-maj=397.8km s-min=32.9km az=166.0.
IDC III 18 15 55 18.0–2.9 39.23N 144.96E 0 3.6,3.4
¶17197050
IDC Error ellipse: s-maj=70.5km s-min=29.0km az=62.0.
ISC III 18 15 58 29.3–.69 38.49N–.05 144.56E–.07 29 3.7b 36 3-87
NIED III 18 15 58 00 38.50N 144.50E 23 3.8W **¶17197051**
IDC III 18 15 58 24.7–.78 38.41N 144.79E 0 4.0,4.0L
ISCJB III 18 15 58 27.3–.51 38.48N–.04 144.48E–.05 29 3.7b,4.0L
JMA III 18 15 58 27.8–.40 38.54N 144.49E 38 4.1,4.0L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ50.00000°,λ-1.00000°. NP2:ϕ_s138.00000°,δ89.00000°,λ-140.00000°. $M_0$5.94000×10^{14}
IDC Error ellipse: s-maj=21.4km s-min=16.2km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=149.8.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 18 16 09 33.2–.91 38.69N–.06 144.39E–.08 29 3.7b 30 2-68
IDC III 18 16 09 28.7–.96 38.63N 144.57E 0 3.8,3.8 **¶17197053**
ISCJB III 18 16 09 31.2–.65 38.70N–.05 144.41E–.06 29 3.6b,3.8
JMA III 18 16 09 33.5–.40 38.76N 144.27E 39 4.2,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=31.0km s-min=18.4km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=40.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC III 18 16 14 30.3–1.3 38.81N 144.20E 0 3.7,3.5
¶17197054
IDC Error ellipse: s-maj=41.7km s-min=23.6km az=94.0.
ISC III 18 16 23 29.6–.45 39.17N–.04 143.39E–.05 20 4.5b,3.5s 193 2-145
NIED III 18 16 23 00 39.20N 143.10E 8 4.4W,3.5s **¶16339128**
IDC III 18 16 23 26.9–.52 39.16N 143.11E 0 4.3,4.2
ISCJB III 18 16 23 28.0–.25 39.21N–.03 143.20E–.03 20 4.4b,3.5s
JMA III 18 16 23 28.7–.20 39.25N 143.06E 13–2 4.4,3.5s
MOS III 18 16 23 30.3–1.4 39.31N 143.14E 34 4.7b,3.5s
NEIC III 18 16 23 30.4–2.5 39.23N 143.17E 24–18 4.8b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ42.00000°,λ163.00000°. NP2:ϕ_s281.00000°,δ79.00000°,λ49.00000°. $M_0$3.85000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=11.2km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=141.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=93.6.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=126.0.
ISC III 18 16 39 44.9–.93 37.06N–.07 142.37E–.07 9 3.7b 21 1-89
JMA III 18 16 39 41.0–.40 37.07N 142.74E 22 4.3 **¶602669253**
ISCJB III 18 16 39 42.5–.70 37.03N–.06 142.53E–.07 9 3.6b
IDC III 18 16 39 44.3–.81 37.01N 142.19E 0 3.8,3.6
NIED III 18 16 40 00 36.60N 141.80E 26 4.1W,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.1km az=35.7.
IDC Error ellipse: s-maj=22.5km s-min=17.7km az=107.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ36.00000°,λ-81.00000°. NP2:ϕ_s9.00000°,δ54.00000°,λ-97.00000°. $M_0$1.54000×10^{15}
ISC III 18 16 45 14.9–1.0 37.13N–.10 142.47E–.10 9 3.8b 14 2-69
ISCJB III 18 16 45 12.6–.80 36.97N–.08 142.45E–.08 9 3.7b **¶602669249**
IDC III 18 16 45 12.8–1.0 36.94N 142.50E 0 3.9,3.7
JMA III 18 16 45 14.7–.50 37.25N 142.44E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=8.4km az=26.8.
IDC Error ellipse: s-maj=31.7km s-min=20.5km az=86.0.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 18 16 49 01.5–.86 37.6N–.10 144.37E–.08 35 3.8b 21 3-88
IDC III 18 16 48 56.1–.78 37.52N 144.44E 0 4.2,4.2 **¶16479230**
ISCJB III 18 16 48 59.6–.67 37.57N–.08 144.36E–.05 33 3.8b,4.2
JMA III 18 16 49 00.8–.40 37.73N 144.10E 7 4.6,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=18.3km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.6km az=14.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 18 16 52 18.8–.76 36.34N–.10 143.49E–.09 35 3.8b 15 4-89
IDC III 18 16 52 13.7–.76 36.36N 143.73E 0 4.0,3.8 **¶17197059**
ISCJB III 18 16 52 16.6–.62 36.24N–.09 143.6E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 17 11 59.9–.76 35.95N–.05 142.43E–.07 18 4.0b 47 1-78
NIED III 18 17 11 00 36.10N 142.50E 5 3.7W **¶16479233**
IDC III 18 17 11 57.1–.91 35.95N 142.48E 0 4.0,3.9
ISCJB III 18 17 11 57.8–.47 35.95N–.04 142.49E–.05 18 4.0b,3.9
JMA III 18 17 11 58.4–.30 36.12N 142.48E 25 3.5,3.9
NEIC III 18 17 12 02.0–.85 35.95N 142.35E 35 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ39.00000°,λ100.00000°. NP2:ϕ_s4.00000°,δ51.00000°,λ82.00000°. $M_0$4.30000×10^{14}
IDC Error ellipse: s-maj=21.4km s-min=15.8km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.2km az=170.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=12.7km az=86.0.
JMA III 18 17 12 43.1–.20 37.00N 142.31E 18–5 3.8
NIED III 18 17 12 00 37.00N 142.30E 5 4.1W **¶603049920**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ6.00000°,λ-23.00000°. NP2:ϕ_s165.00000°,δ88.00000°,λ-95.00000°. $M_0$1.51000×10^{15}
ISC III 18 17 14 48.9–1.2 37.47N–.07 143.59E–.09 35 3.6b 20 2-72
NIED III 18 17 14 00 37.50N 143.60E 5 3.6W **¶17197060**
IDC III 18 17 14 43.4–1.2 37.35N 143.82E 0 3.8,3.6b
ISCJB III 18 17 14 46.7–.85 37.43N–.06 143.63E–.07 33 4.1s,3.6b
JMA III 18 17 14 47.2–.20 37.46N 143.55E 36 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ38.00000°,λ-92.00000°. NP2:ϕ_s203.00000°,δ52.00000°,λ-88.00000°. $M_0$3.03000×10^{14}
IDC Error ellipse: s-maj=32.2km s-min=26.5km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.8km az=168.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 17 34 27.3–.81 37.3N–.10 142.44E–.07 21 3.6b 20 1-89
IDC III 18 17 34 23.7–.81 37.18N 142.63E 0 3.8,3.6 **¶17197063**
JMA III 18 17 34 23.5–.20 37.38N 142.65E 19 4.2,3.6
ISCJB III 18 17 34 25.2–.65 37.23N–.09 142.54E–.06 21 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 17 48 48.0–.48 36.87N–.05 143.23E–.06 25 4.3b 125 2-153
NIED III 18 17 48 00 37.00N 143.10E 5 4.2W **¶16411005**
NEIC III 18 17 48 44.7–2.9 36.86N 143.31E 3–18 4.7b
IDC III 18 17 48 44.2–.56 36.82N 143.31E 0 4.2,4.2
ISCJB III 18 17 48 46.5–.30 36.90N–.04 143.18E–.03 25 4.2b,4.1s
MOS III 18 17 48 48.1–1.6 36.99N 143.30E 39 4.5b,4.1s
JMA III 18 17 48 48.8–.20 36.95N 143.07E 50 4.0,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ32.00000°,λ-104.00000°. NP2:ϕ_s235.00000°,δ59.00000°,λ-81.00000°. $M_0$2.51000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.6km az=128.0.
IDC Error ellipse: s-maj=15.8km s-min=13.2km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.0km az=168.8.
MOS Error ellipse: s-maj=10.1km s-min=6.1km az=96.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 18 18 01 39.6–.30 37.80N 144.19E 38 3.9
¶602670067
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 18 18 06 40.2–1.7 38.37N–.09 144.6E–.10 29 4.0b 22 3-59
JMA III 18 18 06 38.7–.30 38.38N 144.61E 43 4.2 **¶17197065**
ISCJB III 18 18 06 38.6–1.1 38.38N–.08 144.59E–.07 29 3.8b
IDC III 18 18 06 40.4–1.6 38.81N 144.16E 0 3.9,3.8b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.8km az=164.0.
IDC Error ellipse: s-maj=40.1km s-min=25.6km az=95.0.
IDC III 18 18 09 31.6–3.0 36.40N 143.93E 0 3.9,3.7
¶17197067
IDC Error ellipse: s-maj=81.5km s-min=30.8km az=62.0.
IDC III 18 18 13 58.5–2.2 33.51N 141.30E 0 3.5,3.3b

¶17197069
IDC Error ellipse: s-maj=35.4km s-min=24.7km az=40.0.
ISC III 18 18 38 25.4–.89 37.17N–.05 144.08E–.09 35 4.0b 27 3-63
IDC III 18 18 38 20.5–.93 36.97N 144.53E 0 4.1,4.0L ¶16479249
JMA III 18 18 38 21.7–.50 37.18N 144.31E 75 4.0,4.0L
ISCJB III 18 18 38 22.6–.58 37.14N–.04 144.19E–.06 33 4.1b,4.0L
NEIC III 18 18 38 25.4–.46 37.04N 144.34E 35 4.5b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=42.0km s-min=18.0km az=116.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=23.3.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.8km az=136.0.
ISC III 18 18 46 31.6–2.2 36.59N–.05 142.02E–.08 8–13 3.6b 27 1-75
IDC III 18 18 46 30.2–1.5 36.61N 142.20E 0 4.0,4.0s ¶600556197
JMA III 18 18 46 33.9–.20 36.62N 141.99E 23 3.8,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=44.3km s-min=21.9km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 18 19 16 45.7–.41 39.71N–.04 143.39E–.04 29–2 5.3s,4.8b 477 2-145
JMA III 18 19 16 40.6–.60 39.72N 143.56E 1–4 4.8,4.8b ¶602669814
IDC III 18 19 16 41.4–.49 39.67N 143.44E 0 4.7,4.6
ISCJB III 18 19 16 41.2–1.1 39.73N–.03 143.39E–.03 7–6 5.0s,4.8b
NEIC III 18 19 16 44.9–1.3 39.72N 143.33E 21–9 4.9b,4.8b
MOS III 18 19 16 45.5–1.1 39.90N 143.29E 29 5.3s,5.2b
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=12.6km s-min=10.7km az=122.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=143.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=148.0.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=104.3.
ISC III 18 19 19 17.3–.35 36.51N–.04 142.70E–.04 15 4.9b,4.9s 395 2-151
IDC III 18 19 19 14.9–.52 36.45N 142.80E 0 4.7s,4.7 ¶16337758
ISCJB III 18 19 19 15.8–.17 36.45N–.03 142.70E–.03 15 4.9s,4.8b
JMA III 18 19 19 16.3–.30 36.52N 142.73E 22 5.2,4.8b
MOS III 18 19 19 18.3–1.1 36.52N 142.67E 31 5.2b,4.9s
BJI III 18 19 19 19.0 36.42N 142.59E 38 5.4b,5.2s
GCMT III 18 19 19 19.4–.30 36.48N 142.96E 12–0 5.0W,5.2s
NEIC III 18 19 19 19.4–1.5 36.47N 142.68E 30–10 4.9b,5.2s
ISC Event type se.
IDC Error ellipse: s-maj=13.8km s-min=11.5km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=152.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.9km az=114.4.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c52; s87,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.15 $M_{\theta\theta}$-1.02±.09; $M_{\phi\phi}$-2.36±.10; $M_{r\theta}$1.76±.28; $M_{\theta\phi}$-1.59±.06; $M_{\phi r}$2.42±.32; Best double couple: NP1:ϕ_s35.00000°,δ66.00000°,λ91.00000°. NP2:ϕ_s212.00000°,δ24.00000°,λ87.00000°. Principal axes: T 4.5110,Plg69.0000°,Azm308.0000°; N 0.0330,Plg1.0000°,Azm215.0000°; P -4.5440,Plg21.0000°,Azm124.0000° $M_0$4.52800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=137.0.
IDC III 18 19 24 09.5–2.1 37.53N 143.65E 0 3.8,3.8
¶17197073
IDC Error ellipse: s-maj=58.3km s-min=21.6km az=76.0.
JMA III 18 19 43 37.7–.30 37.34N 142.56E 0 3.6
¶602671515
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 18 20 06 43.9–3.7 38.42N–.05 144.74E–.06 9–22 4.3b 103 3-118
ISCJB III 18 20 06 42.8–1.5 38.39N–.04 144.72E–.04 15–10 4.2b ¶16411003
IDC III 18 20 06 42.3–.57 38.37N 144.89E 0 4.2,4.1
JMA III 18 20 06 46.6–.20 38.53N 144.62E 37 4.5,4.1
NEIC III 18 20 06 47.3–.23 38.38N 144.84E 35 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=163.5.
IDC Error ellipse: s-maj=15.6km s-min=13.4km az=114.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=116.0.
ISC III 18 20 11 10.8–1.3 37.36N–.06 144.63E–.10 35 3.6b 24 3-62
NIED III 18 20 11 00 37.50N 144.40E 14 4.8W ¶17197077
IDC III 18 20 11 07.8–2.2 37.25N 144.52E 0 3.7,3.6
ISCJB III 18 20 11 09.9–.85 37.32N–.05 144.48E–.07 33 3.6b,3.6
JMA III 18 20 11 12.6–.70 37.50N 144.42E 55 4.0,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s114.00000°,δ43.00000°,λ-17.00000°. NP2:ϕ_s217.00000°,δ78.00000°,λ-132.00000°. $M_0$1.59000×10^{16}
IDC Error ellipse: s-maj=54.6km s-min=27.0km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.2km az=23.6.
JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
ISC III 18 20 15 23.7–.52 39.70N–.04 143.15E–.04 26–2 4.9b,4.6s 465 1-145
NIED III 18 20 15 00 39.70N 143.30E 17 4.7W,4.6s ¶16337761
IDC III 18 20 15 19.8–.58 39.63N 143.22E 0 4.7,4.6
JMA III 18 20 15 21.4–.40 39.68N 143.30E 17 4.8,4.6
ISCJB III 18 20 15 21.6–.85 39.66N–.03 143.21E–.03 21–5 4.8b,4.5s
MOS III 18 20 15 22.4–1.0 39.75N 143.17E 24 5.2b,4.8s
BJI III 18 20 15 23.0 39.64N 143.07E 32 5.2b,5.0b
NEIC III 18 20 15 25.1–.60 39.62N 143.12E 36–5 4.9b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ20.00000°,λ91.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ90.00000°. $M_0$1.35000×10^{16}
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=134.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.2km az=150.5.
MOS Error ellipse: s-maj=6.8km s-min=4.2km az=107.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=143.0.
ISC III 18 20 50 46.6–1.6 39.1N–.10 143.2E–.10 16 3.0b 9 2-59
IDC III 18 20 50 45.4–2.9 39.01N 143.01E 0 3.4,3.2 ¶17197080
JMA III 18 20 50 49.9–.30 39.18N 143.16E 19–4 3.4,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=72.1km s-min=30.3km az=65.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 18 20 56 25.2–12 37.31N 143.49E 0 3.5b,3.4
¶17197081
IDC Error ellipse: s-maj=211.1km s-min=70.9km az=129.0.
ISC III 18 21 09 34.9–.48 37.55N–.03 144.90E–.03 16–2 5.1b,4.4s 937 3-152
NIED III 18 21 09 00 37.60N 144.80E 8 4.9W,4.4s ¶16337764
IDC III 18 21 09 31.8–.35 37.49N 145.14E 0 4.9,4.8
NEIC III 18 21 09 32.3–1.4 37.49N 145.02E 1–8 5.2b,4.8
GCMT III 18 21 09 32.3–.30 37.65N 145.03E 12–0 5.0W,4.8
ISCJB III 18 21 09 34.9–.09 37.47N–.02 144.97E–.02 29 5.0b,4.4s
MOS III 18 21 09 35.3–1.0 37.45N 145.01E 33 5.2b,4.4s
JMA III 18 21 09 35.2–.40 37.57N 144.80E 48 4.9,4.4s
BJI III 18 21 09 35.8 37.87N 144.54E 10 5.1b,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ27.00000°,λ-92.00000°. NP2:ϕ_s201.00000°,δ63.00000°,λ-89.00000°. $M_0$2.54000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.1km az=87.0.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.2km az=135.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c42; s97,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.06±.14 $M_{\theta\theta}$0.49±.09; $M_{\phi\phi}$2.57±.10; $M_{r\theta}$0.51±.28; $M_{\theta\phi}$0.79±.06; $M_{\phi r}$1.53±.27; Best double couple: NP1:ϕ_s199.00000°,δ59.00000°,λ-90.00000°. NP2:ϕ_s19.00000°,δ31.00000°,λ-90.00000°. Principal axes: T 3.2470,Plg14.0000°,Azm289.0000°; N 0.2230,Plg0.0000°,Azm199.0000°; P -3.4730,Plg76.0000°,Azm108.0000° $M_0$3.36000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=1.8km az=157.7.
MOS Error ellipse: s-maj=6.7km s-min=4.4km az=112.7.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 18 21 22 38.3–.30 37.17N 143.66E 46 3.8
¶602672177
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 18 21 31 11.1–1.0 37.33N–.05 143.60E–.08 35 3.7b 30 2-69
IDC III 18 21 31 06.1–1.1 37.18N 143.96E 0 3.8,3.7 ¶17197086
ISCJB III 18 21 31 09.7–.74 37.30N–.04 143.54E–.06 33 3.7b,3.7
JMA III 18 21 31 10.5–.40 37.35N 143.46E 35 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=20.4km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.6km az=23.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 18 21 54 45.3–3.5 37.45N–.05 142.06E–.07 17–21 4.0b 34 1-117
NIED III 18 21 54 00 37.50N 142.00E 26 3.9W ¶16479045
IDC III 18 21 54 42.2–1.1 37.47N 142.28E 0 4.0,3.9
JMA III 18 21 54 46.0–.30 37.49N 142.03E 30–5 4.1,3.9
NEIC III 18 21 54 47.9–.55 37.39N 142.00E 35 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ41.00000°,λ-67.00000°. NP2:ϕ_s27.00000°,δ53.00000°,λ-109.00000°. $M_0$8.21000×10^{14}
IDC Error ellipse: s-maj=35.2km s-min=18.9km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=10.5km az=94.0.
ISC III 18 22 05 43.4–1.4 36.54N–.09 143.11E–.09 29 3.5b 18 2-66
IDC III 18 22 05 39.0–1.9 36.36N 143.24E 0 3.5,3.4b ¶17197088
JMA III 18 22 05 41.2–.30 36.63N 142.99E 6 3.4,3.4b
ISCJB III 18 22 05 41.6–.99 36.50N–.07 143.13E–.08 29 3.8s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 22 17 01.4–1.1 39.67N–.06 143.10E–.08 18 3.5b 26 1-87
JMA III 18 22 16 57.8–.50 39.57N 143.39E 16 3.9 ¶17197090
IDC III 18 22 17 00.6–1.1 39.97N 142.87E 0 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=29.6km s-min=22.9km az=97.0.
ISC III 18 22 59 49.5–2.9 36.23N–.06 142.55E–.08 7–17 3.5b 27 1-72
IDC III 18 22 59 48.4–1.1 36.28N 142.76E 0 3.7,3.5 ¶16479276
JMA III 18 22 59 51.5–.30 36.32N 142.52E 74 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=24.9km az=98.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 18 23 00 31.5–.74 36.94N–.10 144.03E–.10 35 4.0b 36 5-88
IDC III 18 23 00 26.2–.73 36.94N 144.10E 0 4.1,4.0 ¶17197094
ISCJB III 18 23 00 29.4–.54 36.88N–.07 144.00E–.08 33 4.0b,4.0
NEIC III 18 23 00 31.8–.51 37.05N 144.02E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=17.5km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=7.2km az=140.6.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.1km az=152.0.
IDC III 18 23 19 33.8–6.4 36.76N 142.27E 0 3.8,3.7L
¶16479279
IDC Error ellipse: s-maj=152.2km s-min=31.9km az=164.0.
IDC III 18 23 43 59.3–3.3 37.85N 144.56E 0 3.8,3.6
¶16479285
IDC Error ellipse: s-maj=77.2km s-min=40.5km az=56.0.
ISC III 18 23 44 37.5–1.0 37.3N–.10 144.0E–.10 35 3.9b 18 5-84
IDC III 18 23 44 32.2–.94 37.35N 144.02E 0 4.0,3.8 ¶17197100
ISCJB III 18 23 44 35.3–.77 37.29N–.09 144.0E–.10 33 3.9b,3.8
NEIC III 18 23 44 38.1–1.2 37.34N 143.94E 41–9 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.8km s-min=18.7km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=11.2km az=37.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.3km az=120.0.
ISC III 18 23 58 16.7–1.0 38.9N–.20 144.4E–.10 19 3.6b 15 5-79
IDC III 18 23 58 13.7–1.0 38.87N 144.41E 0 3.8,3.7L ¶17197105
ISCJB III 18 23 58 14.6–.90 38.8N–.10 144.4E–.10 19 3.6b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC III 18 23 59 21.6–.42 38.32N–.04 144.13E–.04 35–1 4.8b,4.2s 542 2-149
IDC III 18 23 59 15.7–.47 38.31N 144.22E 0 4.5,4.4 ¶16337770
ISCJB III 18 23 59 18.1–.91 38.41N–.03 144.07E–.02 15–5 4.7b,4.3s
JMA III 18 23 59 19.7–.30 38.43N 144.04E 41 4.6,4.3s
MOS III 18 23 59 20.8–.82 38.55N 144.04E 33 5.0b,4.3s
NEIC III 18 23 59 21.9–.13 38.34N 144.08E 35 4.8b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=10.9km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.5km az=173.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=5.1km az=95.2.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=157.0.
ISC III 19 00 16 29.4–.40 39.99N–.04 143.50E–.04 6 4.6b,4.0s 197 2-87
JMA III 19 00 16 27.3–.20 39.96N 143.60E 0 4.5,4.0s ¶16339136
ISCJB III 19 00 16 27.8–.24 39.92N–.03 143.49E–.04 6 4.5b,4.0s
MOS III 19 00 16 32.0–.97 39.93N 143.41E 33 4.7b,4.0s
IDC III 19 00 16 33.1–2.9 39.82N 143.54E 36–24 4.3,4.3
NEIC III 19 00 16 34.2–.59 39.88N 143.40E 40–5 4.6b,4.3
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=136.1.
MOS Error ellipse: s-maj=9.2km s-min=6.1km az=109.0.
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=108.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.2km az=134.0.
ISC III 19 00 45 16.5–.62 37.88N–.06 142.03E–.06 30 3.9b 43 1-146
NIED III 19 00 45 00 37.90N 141.90E 53 4.1W ¶600556665
ISCJB III 19 00 45 14.6–.46 37.86N–.04 142.11E–.05 30 3.9b
JMA III 19 00 45 17.4–.20 37.91N 141.92E 36–5 4.1
IDC III 19 00 45 18.8–2.5 37.91N 141.96E 51–24 3.8,3.8
NEIC III 19 00 45 19.9–.68 37.94N 141.96E 61–6 4.1b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ30.00000°,λ-169.00000°. NP2:ϕ_s157.00000°,δ84.00000°,λ-60.00000°. $M_0$1.48000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.1km az=145.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.3km s-min=14.8km az=102.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=135.0.
ISC III 19 00 50 06.8–3.5 37.68N–.06 142.0E–.10 24–22 3.4b 23 1-68
IDC III 19 00 50 01.6–1.4 37.66N 142.50E 0 3.7L,3.6 ¶17197108
ISCJB III 19 00 50 06.1–1.7 37.69N–.05 142.05E–.09 24–10 3.4b,3.6
JMA III 19 00 50 07.9–.20 37.73N 141.91E 17–2 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.3km s-min=22.7km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=9.1km az=170.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 19 01 03 39.6–2.1 36.1N–.30 142.6E–.30 18 3.6b 7 4-56
IDC III 19 01 03 36.3–2.7 36.16N 142.76E 0 3.7,3.7b ¶17197109
ISCJB III 19 01 03 37.1–1.7 36.1N–.20 142.7E–.20 18 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 01 06 34.2–3.7 38.78N–.07 143.92E–.07 2–23 4.0b 36 2-87
IDC III 19 01 06 33.7–1.1 38.72N 144.09E 0 3.9,3.8 ¶16479294
NEIC III 19 01 06 37.9–3.9 38.77N 144.01E 26–26 4.4b,3.8
JMA III 19 01 06 38.4–.30 38.91N 144.00E 31 4.1,3.8
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=23.1km az=115.0.
NEIC Event type se. Error ellipse: s-maj=20.9km s-min=11.4km az=120.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 19 01 08 35.1–2.1 37.3N–.20 143.5E–.30 35 3.7b 7 4-58
IDC III 19 01 08 29.8–2.7 37.22N 143.69E 0 3.8,3.8 ¶17197110
ISCJB III 19 01 08 32.9–1.8 37.1N–.20 143.6E–.30 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 01 13 01.4–1.2 38.18N–.06 143.92E–.10 35 3.4b 16 2-75
IDC III 19 01 12 56.6–1.8 38.13N 144.03E 0 3.8,3.7 ¶17197112
JMA III 19 01 12 58.4–.70 38.31N 143.96E 32 3.9,3.7
ISCJB III 19 01 13 00.2–.00 38.23N–.08 143.87E–.09 33 3.4b,3.7
ISC Event type ke.

ISCJB Event type ke.
JMA III 19 01 20 17.5–.30 37.72N 142.11E 15–4 3.8
¶602675122
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 19 01 21 48.6–3.1 36.00N 142.81E 0 3.7,3.7b
¶17197113
IDC Error ellipse: s-maj=89.9km s-min=33.3km az=60.0.
ISC III 19 01 22 45.4–.40 39.67N–.03 143.19E–.03 24–2 5.7b,5.7s 1783 1-154
NIED III 19 01 22 00 39.70N 143.30E 17 5.8W,5.7s **¶602442495**
BJI III 19 01 22 40.9 39.70N 143.10E 10 6.3s,6.2
JMA III 19 01 22 42.3–.30 39.66N 143.35E 13–4 6.1,6.2
NEIC III 19 01 22 44.0–.00 39.47N 143.57E 15 6.1,6.2
GCMT III 19 01 22 44.8–.10 39.67N 143.29E 22–0 5.9W,6.2
NEIC III 19 01 22 44.8–.11 39.70N 142.90E 15 5.9W,5.9W
ISCJB III 19 01 22 45.0–.57 39.63N–.02 143.09E–.02 30–4 5.8s,5.6b
MOS III 19 01 22 45.4–.98 39.74N 143.09E 33 5.9b,5.9s
IDC III 19 01 22 46.3–3.9 39.62N 143.20E 31–28 5.7,5.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ19.00000°,λ80.00000°. NP2:ϕ_s21.00000°,δ71.00000°,λ94.00000°. $M_0$6.23000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}3.77 $M_{\theta\theta}$-0.64 $M_{\phi\phi}$-3.13 $M_{r\theta}$2.62 $M_{\theta\phi}$-0.27 $M_{\phi r}$6.65 Best double couple: NP1:ϕ_s20.00000° ,δ77.00000°,λ94.00000°. NP2:ϕ_s180.00000°,δ13.00000°,λ71.00000°. Principal axes: T 8.3100,Plg57.0000°,Azm295.0000°; N -0.7600,Plg4.0000°,Azm198.0000° ; P -7.5500,Plg32.0000°,Azm106.0000° $M_0$8.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s122,c242; s135,c398;Duration: 2s1 Moment tensor: Scale 10^{17}Nm; M_{rr}4.65±.06 $M_{\theta\theta}$-0.06±.04; $M_{\phi\phi}$-4.59±.05; $M_{r\theta}$2.44±.09; $M_{\theta\phi}$-0.92±.03; $M_{\phi r}$5.90±.13; Best double couple: NP1:ϕ_s20.00000° ,δ72.00000°,λ96.00000°. NP2:ϕ_s182.00000°,δ19.00000°,λ73.00000°. Principal axes: T 7.9360,Plg63.0000°,Azm299.0000°; N -0.0060,Plg6.0000°,Azm198.0000° ; P -7.9330,Plg27.0000°,Azm106.0000° $M_0$7.93500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=144.0. Recorded [3 JMA] in Iwate. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s78 Moment tensor: Scale 10^{17}Nm; M_{rr}4.06 $M_{\theta\theta}$-0.55 $M_{\phi\phi}$-3.51 $M_{r\theta}$2.38 $M_{\theta\phi}$-2.62 $M_{\phi r}$5.45 Best double couple: NP1:ϕ_s219.00000° ,δ19.00000°,λ104.00000°. NP2:ϕ_s24.00000°,δ71.00000°,λ85.00000°. Principal axes: T 7.0300,Plg63.0000°,Azm287.0000°; N 0.9300,Plg4.0000°,Azm26.0000° ; P -7.9600,Plg26.0000°,Azm118.0000° $M_0$7.50000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ10.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm280.0000° ; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm100.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=152.8.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=96.5.
IDC Error ellipse: s-maj=12.0km s-min=10.1km az=106.0.
ISC III 19 01 25 31.5–1.1 39.6N–.10 143.5E–.20 11 4.5b 12 5-81
ISCJB III 19 01 25 29.6–.89 39.49N–.08 143.5E–.20 11 4.5b **¶17197116**
IDC III 19 01 25 35.8–5.8 39.58N 143.42E 40–51 4.5,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.1km s-min=9.4km az=16.3.
IDC Error ellipse: s-maj=34.1km s-min=20.1km az=81.0.
ISC III 19 01 27 13.6–.54 39.61N–.03 143.10E–.04 30–3 5.8s,5.3b 557 1-154
NIED III 19 01 27 00 39.60N 143.30E 17 5.4W,5.3b **¶16338027**
JMA III 19 01 27 10.4–.30 39.61N 143.32E 21 5.7,5.3b
BJI III 19 01 27 11.7 39.48N 142.84E 21 5.9s,5.8
MOS III 19 01 27 11.4–1.2 39.55N 143.31E 33 5.6b,5.8
IDC III 19 01 27 13.8–2.4 39.63N 143.24E 31–17 5.0,4.8
ISCJB III 19 01 27 13.6–.41 39.57N–.02 143.12E–.03 42–3 5.8s,5.3b
GCMT III 19 01 27 13.6–.30 39.57N 143.56E 37–0 5.5W,5.3b
NEIC III 19 01 27 13.7–1.7 39.55N 143.05E 32–11 5.4b,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ18.00000°,λ72.00000°. NP2:ϕ_s26.00000°,δ72.00000°,λ96.00000°. $M_0$1.32000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=88.4.
IDC Error ellipse: s-maj=12.4km s-min=9.9km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=3.0km az=42.1.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c55; s101,c174; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.53±.10 $M_{\theta\theta}$-0.28±.05; $M_{\phi\phi}$-1.26±.05; $M_{r\theta}$0.47±.04; $M_{\theta\phi}$-0.32±.02; $M_{\phi r}$0.99±.04; Best double couple: NP1:ϕ_s21.00000°,δ64.00000° ,λ94.00000°. NP2:ϕ_s193.00000°,δ27.00000°,λ82.00000°. Principal axes: T 1.9030,Plg71.0000°,Azm300.0000°; N -0.1900,Plg3.0000°,Azm200.0000° ; P -1.7180,Plg19.0000°,Azm109.0000° $M_0$1.81100×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=133.0.
ISC III 19 01 39 40.2–.68 39.53N–.08 143.46E–.09 11 4.4b 71 2-87
ISCJB III 19 01 39 38.8–.48 39.59N–.06 143.39E–.08 11 4.6s,4.3b **¶16339138**
NEIC III 19 01 39 44.7–.69 39.67N 143.33E 38–6 4.5b,4.3b
IDC III 19 01 39 46.3–2.4 39.67N 143.37E 54–21 4.8,4.8s
JMA III 19 01 40 00.5–.30 37.89N 142.22E 17 4.1,4.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=6.6km az=37.5.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.7km az=132.0.
IDC Error ellipse: s-maj=15.3km s-min=13.3km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC III 19 01 43 44.6–2.8 36.64N 142.49E 0 3.6,3.5
¶17197117
IDC Error ellipse: s-maj=72.3km s-min=32.7km az=62.0.
ISC III 19 01 47 19.5–1.2 36.3N–.10 143.1E–.10 35 3.5b 10 4-60
IDC III 19 01 47 14.0–1.2 36.40N 143.33E 0 3.6,3.5 **¶602675094**
ISCJB III 19 01 47 17.1–.99 36.27N–.09 143.2E–.10 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 02 06 13.6–1.8 38.64N 143.86E 0 3.7,3.5
¶17197119
IDC Error ellipse: s-maj=60.3km s-min=34.6km az=88.0.
ISC III 19 02 07 39.5–.55 36.86N–.05 143.33E–.07 35 4.1b 57 2-89
IDC III 19 02 07 34.7–.65 36.91N 143.53E 0 4.2,4.1 **¶16479295**
ISCJB III 19 02 07 38.0–.39 36.99N–.05 143.32E–.04 33 4.1b,4.1
NEIC III 19 02 07 39.7–.38 36.94N 143.44E 35 4.2b,4.1
JMA III 19 02 07 40.2–.30 36.92N 143.09E 48 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=15.7km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=14.7.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.6km az=166.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 19 02 11 34.7–.81 36.9N–.10 143.22E–.08 25 4.1b 32 2-84
IDC III 19 02 11 30.5–.93 36.84N 143.41E 0 4.0,3.8 **¶16479296**
ISCJB III 19 02 11 32.6–.57 36.87N–.08 143.25E–.06 25 4.0b,3.8
NEIC III 19 02 11 33.3–5.0 36.85N 143.33E 17–30 4.3b,3.8
JMA III 19 02 11 34.1–.20 36.93N 143.14E 29 3.7,3.8
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=20.2km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=7.1km az=0.9.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=9.3km az=82.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 19 02 17 35.7–2.8 40.11N–.06 144.47E–.08 25–21 3.9b 39 2-73
IDC III 19 02 17 31.5–1.5 40.01N 144.72E 0 4.3,4.3s **¶16479297**
ISCJB III 19 02 17 35.1–1.5 40.09N–.04 144.38E–.05 32–12 4.2s,3.9b
JMA III 19 02 17 36.1–.30 40.13N 144.32E 44 4.1,3.9b
NEIC III 19 02 17 37.1–.86 40.01N 144.48E 35 4.2b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=41.1km s-min=22.4km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.1km az=32.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=8.0km az=86.0.
ISC III 19 02 29 08.2–.54 37.63N–.07 142.51E–.07 21 4.2b 67 1-151
NIED III 19 02 29 00 37.60N 142.40E 14 4.2W **¶16479298**
IDC III 19 02 29 04.8–.60 37.64N 142.55E 0 4.2,4.1
JMA III 19 02 29 06.1–.40 37.64N 142.43E 5–4 4.3,4.1
NEIC III 19 02 29 06.2–3.2 37.67N 142.58E 8–19 4.4b,4.1
ISCJB III 19 02 29 06.1–.38 37.59N–.04 142.57E–.05 21 4.2b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ33.00000°,λ-126.00000°. NP2:ϕ_s85.00000°,δ64.00000°,λ-69.00000°. $M_0$2.34000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC III 19 02 31 46.8–.66 38.33N–.06 144.70E–.08 10 4.1b 54 3-118
IDC III 19 02 31 44.3–1.1 38.10N 144.82E 0 4.1,4.0 **¶16479300**
ISCJB III 19 02 31 45.6–.54 38.36N–.06 144.61E–.05 10 4.0b,3.6s
NEIC III 19 02 31 45.5–4.3 38.17N 144.82E 7–25 4.4b,3.6s
JMA III 19 02 31 47.5–.90 38.35N 144.67E 60 4.5,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=28.6km s-min=16.3km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.5km az=163.1.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=9.3km az=143.0.
JMA Error ellipse: s-maj=7.8km s-min=4.4km az=-1.0.
ISC III 19 02 44 29.4–1.1 37.34N–.07 142.35E–.08 21 3.7b 22 1-69
JMA III 19 02 44 23.9–.30 37.31N 142.50E 0 4.3 **¶17197124**
IDC III 19 02 44 25.5–1.7 37.31N 142.59E 0 3.8,3.8b
ISCJB III 19 02 44 26.6–.82 37.31N–.07 142.53E–.08 21 3.7b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 03 04 34.6–.47 37.72N–.04 144.10E–.06 35 4.7b,4.3s 187 3-88
IDC III 19 03 04 29.2–.54 37.61N 144.33E 0 4.6,4.4 **¶602675519**
NEIC III 19 03 04 31.8–2.6 37.60N 144.22E 15–16 4.8b,4.4
JMA III 19 03 04 32.8–.40 37.74N 144.05E 52 4.7,4.4
MOS III 19 03 04 32.4–1.1 37.67N 144.22E 33 4.8b,4.4
ISCJB III 19 03 04 32.7–.21 37.69N–.03 144.06E–.03 33 4.6b,4.3s
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 19 03 25 07.7–1.2 38.37N–.07 143.85E–.08 14 3.6b 27 2-75
IDC III 19 03 25 04.8–.92 38.16N 144.00E 0 3.9L,3.8 **¶17197126**
ISCJB III 19 03 25 05.5–.70 38.35N–.04 143.87E–.06 14 3.5b,3.8
JMA III 19 03 25 08.2–.20 38.38N 143.86E 38 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=28.3km s-min=18.6km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.6km az=21.4.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 19 03 31 48.4–.20 39.45N 143.48E 0 3.6
¶602675474
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 19 03 34 56.4–.40 38.04N 144.41E 4 3.9
¶602675468
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 19 03 40 08.4–.91 36.21N–.06 142.19E–.09 21–7 3.6b 25 1-78
IDC III 19 03 40 05.1–.86 36.19N 142.22E 0 3.7,3.5 **¶17197127**
JMA III 19 03 40 07.7–.30 36.34N 142.26E 58 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=19.5km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC III 19 03 48 31.2–3.0 39.55N 143.27E 0 4.0,4.0s
¶17197129
IDC Error ellipse: s-maj=68.4km s-min=32.9km az=148.0.
ISC III 19 03 55 06.1–1.4 39.64N–.08 143.85E–.09 11 4.0b 17 2-67
IDC III 19 03 55 04.4–2.0 39.57N 143.84E 0 3.8,3.8b **¶17197130**
JMA III 19 03 55 12.2–.70 39.67N 143.52E 5 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=57.2km s-min=27.8km az=78.0.
JMA Error ellipse: s-maj=3.3km s-min=5.1km az=-1.0.
IDC III 19 04 17 34.0–2.6 37.51N 143.86E 0 3.7,3.6b
¶17197131
IDC Error ellipse: s-maj=72.0km s-min=30.4km az=60.0.
ISC III 19 04 25 11.7–.64 36.07N–.05 142.41E–.07 18 4.0b 41 1-90
IDC III 19 04 25 08.9–.72 36.05N 142.52E 0 4.0,3.8 **¶16479303**
ISCJB III 19 04 25 09.9–.44 36.07N–.04 142.47E–.05 18 3.9b,3.8
JMA III 19 04 25 11.8–.30 36.17N 142.45E 58 3.5,3.8
NEIC III 19 04 25 12.9–3.2 36.02N 142.50E 28–23 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=17.5km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=22.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=54.0.
ISC III 19 04 44 24.8–.87 37.37N–.06 142.4E–.10 21 3.6b 22 1-89
NIED III 19 04 44 00 37.50N 142.30E 14 3.7W **¶17197133**
IDC III 19 04 44 21.5–.92 37.38N 142.58E 0 3.9,3.7
ISCJB III 19 04 44 22.9–.73 37.35N–.06 142.48E–.10 21 3.7b,3.7
JMA III 19 04 44 23.1–.70 37.46N 142.31E 4–5 4.2,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ31.00000°,λ-123.00000°. NP2:ϕ_s206.00000°,δ64.00000°,λ-72.00000°. $M_0$4.55000×10^{14}
IDC Error ellipse: s-maj=25.0km s-min=19.3km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.1km az=171.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 19 04 54 16.1–.95 39.2N–.20 143.99E–.07 10 4.1b 22 2-74
ISCJB III 19 04 54 14.2–.68 39.2N–.10 144.0E–.10 10 4.0b **¶16479305**
IDC III 19 04 54 14.9–1.1 39.16N 143.97E 0 4.0,3.9
NEIC III 19 04 54 17.0–.75 38.65N 144.05E 35 4.3b,3.9
JMA III 19 04 54 24.2–.40 40.63N 143.68E 10 3.7,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=9.9km az=20.9.
IDC Error ellipse: s-maj=34.2km s-min=19.7km az=73.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=13.2km az=125.0.
JMA Error ellipse: s-maj=2.2km s-min=4.2km az=-1.0.
IDC III 19 04 57 44.5–2.2 35.64N 142.93E 0 3.9L,3.7
¶17197134
IDC Error ellipse: s-maj=61.5km s-min=26.4km az=58.0.
ISC III 19 05 02 04.9–.77 37.58N–.06 142.03E–.07 24 3.9b 28 1-89
IDC III 19 05 02 01.2–.79 37.61N 142.14E 0 3.9,3.8 **¶600556939**
ISCJB III 19 05 02 02.9–.51 37.57N–.05 142.12E–.05 24 3.9s,3.9b
JMA III 19 05 02 05.0–.30 37.56N 142.03E 35 3.9,3.9b
NEIC III 19 05 02 05.2–2.2 37.60N 142.16E 27–15 4.3b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=18.3km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.6km az=155.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.6km az=106.0.
IDC III 19 05 07 14.6–2.5 37.16N 143.17E 0 3.7b,3.7
¶17197136
IDC Error ellipse: s-maj=68.7km s-min=28.8km az=67.0.
IDC III 19 05 39 35.6–1.3 35.49N 142.42E 0 3.7,3.6
¶17197138
IDC Error ellipse: s-maj=33.0km s-min=26.8km az=57.0.
IDC III 19 05 47 20.6–2.4 39.08N 143.41E 0 3.6,3.5b
¶17197139
IDC Error ellipse: s-maj=68.0km s-min=28.0km az=64.0.
JMA III 19 05 47 44.1–.40 36.91N 142.33E 13 3.5
¶602674907
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC III 19 05 51 53.2–2.6 37.62N 144.18E 0 3.7,3.7s
¶17197142
IDC Error ellipse: s-maj=58.6km s-min=26.5km az=69.0.
ISC III 19 06 04 03.8–.38 38.37N–.05 144.64E–.04 29 4.8b,3.7s 515 3-148
IDC III 19 06 03 59.0–.52 38.36N 144.71E 0 4.6,4.5 **¶16338037**
JMA III 19 06 04 02.2–.40 38.38N 144.53E 40 4.5,4.5
NEIC III 19 06 04 02.7–1.6 38.42N 144.62E 18–10 4.9b,4.5
MOS III 19 06 04 02.8–1.1 38.44N 144.58E 33 5.0b,4.5
ISCJB III 19 06 04 02.3–.14 38.42N–.03 144.54E–.02 29 4.7b,3.7s
ISC Event type se.
NEIC Event type se.

ISCJB Event type se.
ISC III 19 06 10 44.0–.94 38.36N–.08 144.09E–.08 14 3.6b 26 2-88
IDC III 19 06 10 41.4–.88 38.22N 144.18E 0 3.9,3.8L ¶17197143
ISCJB III 19 06 10 42.9–.70 38.32N–.07 144.07E–.05 14 3.5b,3.8L
JMA III 19 06 10 45.9–.20 38.27N 144.00E 41 4.0,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=21.0km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.0km az=178.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC III 19 06 14 31.6–2.7 36.85N 143.59E 0 3.5,3.4
¶17197144
IDC Error ellipse: s-maj=75.2km s-min=30.6km az=63.0.
ISC III 19 06 15 44.3–.62 38.42N–.07 144.56E–.07 29 3.9b 57 3-118
IDC III 19 06 15 39.5–.69 38.36N 144.73E 0 4.1,3.9 ¶16447644
ISCJB III 19 06 15 42.3–.39 38.36N–.05 144.56E–.04 29 4.0b,3.4s
JMA III 19 06 15 43.3–.20 38.47N 144.22E 1 4.4,3.4s
NEIC III 19 06 15 44.1–2.0 38.35N 144.71E 30–14 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=16.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.0km az=161.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.5km az=126.0.
IDC III 19 06 36 35.9–1.4 38.18N 144.86E 0 3.8,3.7
¶17197147
IDC Error ellipse: s-maj=38.5km s-min=23.7km az=82.0.
IDC III 19 06 44 46.8–1.4 38.60N 144.98E 0 4.2,4.1
¶17197148
IDC Error ellipse: s-maj=42.0km s-min=26.0km az=87.0.
ISC III 19 06 53 05.8–.50 39.92N–.03 143.15E–.03 25–3 5.0b,4.6s 490 1-146
NIED III 19 06 53 00 39.90N 143.20E 17 4.8W,4.6s ¶602674619
IDC III 19 06 53 01.6–.52 39.87N 143.19E 0 4.8,4.8
JMA III 19 06 53 01.8–.20 39.95N 143.19E 0 4.9,4.8
ISCJB III 19 06 53 03.6–.67 39.88N–.02 143.16E–.02 20–4 4.9b,4.5s
BJI III 19 06 53 05.2 39.97N 143.10E 43 5.1b,5.1b
MOS III 19 06 53 05.3–.89 40.07N 143.01E 26 5.3b,4.7s
NEIC III 19 06 53 07.4–1.1 39.92N 143.03E 34–8 4.9b,4.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ70.00000°. NP2:ϕ_s30.00000°,δ73.00000°,λ96.00000°. $M_0$1.52000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=11.2km az=137.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.7km az=142.3.
MOS Error ellipse: s-maj=6.5km s-min=4.1km az=100.9.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=134.0.
ISC III 19 07 18 22.9–.52 36.36N–.05 142.02E–.06 19 3.9b 55 1-152
NIED III 19 07 18 00 36.40N 141.90E 29 3.9W ¶17197153
IDC III 19 07 18 20.1–.66 36.30N 142.10E 0 4.3L,4.0
NEIC III 19 07 18 21.0–3.4 36.31N 142.11E 6–21 4.7b,4.0
ISCJB III 19 07 18 21.3–.34 36.37N–.04 142.02E–.04 19 4.0b,3.5s
JMA III 19 07 18 23.5–.20 36.42N 141.86E 76–4 3.8,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ44.00000°,λ-147.00000°. NP2:ϕ_s133.00000°,δ68.00000°,λ-51.00000°. $M_0$8.94000×10^{14}
IDC Error ellipse: s-maj=19.6km s-min=15.9km az=130.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.3km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=165.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 07 38 13.9–1.2 36.6N–.20 142.7E–.20 15 3.5b 7 4-60
IDC III 19 07 38 11.6–1.2 36.55N 142.69E 0 3.6,3.5 ¶17197157
ISCJB III 19 07 38 11.7–1.1 36.5N–.20 142.8E–.20 15 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 07 41 12.1–.73 37.89N–.04 142.94E–.04 28–4 4.7b,4.0s 327 2-151
NIED III 19 07 41 00 37.90N 142.90E 14 4.6W,4.0s ¶16338041
IDC III 19 07 41 07.6–.44 37.88N 143.03E 0 4.6,4.5
ISCJB III 19 07 41 09.5–.94 37.88N–.03 142.94E–.03 20–6 4.7b,4.1s
JMA III 19 07 41 09.5–.30 37.88N 142.92E 18 4.8,4.1s
MOS III 19 07 41 11.8–1.1 37.94N 142.88E 37 5.0b,4.1s
NEIC III 19 07 41 13.5–.52 37.86N 142.91E 37–5 4.8b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ45.00000°,λ-97.00000°. NP2:ϕ_s217.00000°,δ46.00000°,λ-83.00000°. $M_0$7.80000×10^{15}
IDC Error ellipse: s-maj=12.7km s-min=10.5km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.3km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=113.4.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=133.0.
ISC III 19 08 25 11.2–.50 36.88N–.05 142.03E–.05 19 4.5b 83 1-154
NIED III 19 08 25 00 37.00N 142.00E 29 4.2W ¶600557096
IDC III 19 08 25 08.0–.65 36.86N 142.08E 0 4.2,4.1L
ISCJB III 19 08 25 09.6–.26 36.84N–.03 142.07E–.03 19 4.4b,3.3s
JMA III 19 08 25 11.6–.30 36.95N 142.01E 35 4.2,3.3s
NEIC III 19 08 25 15.4–.71 36.85N 142.02E 53–7 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s304.00000°,δ36.00000°,λ-128.00000°. NP2:ϕ_s168.00000°,δ62.00000°,λ-66.00000°. $M_0$1.96000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=15.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.7km az=158.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.8km az=117.0.
ISC III 19 08 28 25.6–.71 37.75N–.06 144.11E–.07 35 4.1b 48 3-159
IDC III 19 08 28 20.3–.89 37.60N 144.35E 0 4.0,3.8 ¶16447650
NEIC III 19 08 28 21.9–.35 37.67N 144.31E 10 4.6b,3.8
JMA III 19 08 28 23.8–.30 37.74N 144.05E 44 4.3,3.8
ISCJB III 19 08 28 23.2–.43 37.73N–.04 144.13E–.05 33 4.1b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 19 08 32 49.6–3.0 38.02N 144.51E 0 3.8,3.6
¶17197163
IDC Error ellipse: s-maj=74.8km s-min=34.5km az=54.0.
ISC III 19 08 39 35.5–.67 37.30N–.09 143.06E–.08 24 4.0b 45 2-145
IDC III 19 08 39 31.8–.84 37.32N 143.09E 0 4.0,3.8 ¶16447652
ISCJB III 19 08 39 33.6–.42 37.28N–.05 143.07E–.05 24 4.0b,4.0s
JMA III 19 08 39 34.8–.20 37.39N 143.00E 60 3.6,4.0s
NEIC III 19 08 39 38.5–1.2 37.33N 143.05E 49–11 4.4b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=19.3km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.3km az=154.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=86.0.
ISC III 19 08 49 42.3–1.2 37.9N–.10 144.20E–.09 35 3.7b 14 3-62
IDC III 19 08 49 37.3–1.3 37.77N 144.50E 0 3.8,3.8L ¶17197165
ISCJB III 19 08 49 40.2–.94 37.93N–.08 144.24E–.08 33 3.5b,3.8L
JMA III 19 08 49 41.5–.40 37.91N 144.08E 32 4.0,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=55.8km s-min=25.5km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.3km az=30.2.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC III 19 09 15 53.1–9.1 37.74N 142.45E 0 3.8,3.6b
¶17197167
IDC Error ellipse: s-maj=186.4km s-min=51.0km az=14.0.
JMA III 19 09 16 42.8–.40 39.51N 144.20E 47 3.6
¶602674393
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 19 09 22 58.3–.73 37.96N–.07 143.66E–.07 35 3.7b 28 2-88
IDC III 19 09 22 53.0–.70 37.78N 143.90E 0 4.1,3.9 ¶16479384
ISCJB III 19 09 22 56.3–.49 37.88N–.06 143.65E–.05 33 3.9b,3.9
JMA III 19 09 22 57.3–.40 37.94N 143.55E 39 4.1,3.9
NEIC III 19 09 22 57.7–.56 37.75N 143.79E 35 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=16.7km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.3km az=165.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=8.9km az=125.0.
ISC III 19 09 24 51.1–.75 38.82N–.06 144.18E–.07 23 3.8b 29 2-87
IDC III 19 09 24 47.3–.77 38.59N 144.53E 0 4.0,3.8 ¶17197169
ISCJB III 19 09 24 49.5–.56 38.82N–.05 144.15E–.05 23 3.8b,3.8
JMA III 19 09 24 51.3–.20 38.85N 144.11E 43 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=17.1km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.1km az=146.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 19 09 25 02.1–1.3 38.6N–.10 144.4E–.10 29 3.7b 7 5-63
IDC III 19 09 24 57.8–1.4 38.54N 144.51E 0 3.9,3.8 ¶17197172
ISCJB III 19 09 25 00.1–1.1 38.6N–.10 144.3E–.20 29 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 09 26 24.3–4.3 36.73N–.05 142.71E–.06 17–27 4.2b 60 2-89
NIED III 19 09 26 00 36.90N 142.60E 8 4.2W ¶16479389
IDC III 19 09 26 21.8–.66 36.75N 142.76E 0 4.3,4.2
ISCJB III 19 09 26 25.0–.95 36.76N–.04 142.68E–.07 33–8 4.1b,4.2
JMA III 19 09 26 25.4–.20 36.86N 142.65E 57 4.3,4.2
NEIC III 19 09 26 26.4–.50 36.71N 142.80E 35 4.4b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ34.00000°,λ115.00000°. NP2:ϕ_s19.00000°,δ59.00000°,λ74.00000°. $M_0$2.54000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=14.3km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.6km az=8.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.6km az=126.0.
JMA III 19 09 28 50.3–.20 37.40N 142.56E 0 3.9
¶602674378
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 09 32 31.0–.52 37.52N–.06 144.64E–.05 35 4.3b 107 3-119
IDC III 19 09 32 24.9–.56 37.32N 144.82E 0 4.2,4.1 ¶16339142
NEIC III 19 09 32 26.1–2.5 37.33N 144.76E 5–15 4.5b,4.1
ISCJB III 19 09 32 28.9–.28 37.45N–.04 144.51E–.03 33 4.3b,4.1
JMA III 19 09 32 29.4–.30 37.56N 144.48E 47 4.8,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=13.2km az=136.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.6km az=1.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 19 09 33 37.6–.58 37.20N–.07 142.46E–.06 9 4.2b 32 1-146
ISCJB III 19 09 33 35.8–.45 37.17N–.05 142.46E–.05 9 4.1b ¶17197173
IDC III 19 09 33 36.3–.64 37.22N 142.42E 0 4.3,4.2
JMA III 19 09 33 39.4–.20 37.32N 142.44E 20 4.4,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.8km az=7.1.
IDC Error ellipse: s-maj=16.6km s-min=14.7km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 09 40 03.4–1.5 37.6N–.10 142.01E–.10 24 3.5b 10 1-61
ISCJB III 19 09 40 01.5–1.1 37.52N–.09 142.12E–.08 24 3.5b ¶602674362
IDC III 19 09 40 04.6–1.2 36.98N 140.54E 0 3.6,3.5
JMA III 19 09 40 04.3–.20 37.65N 141.98E 28–5 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=9.5km az=1.3.
IDC Error ellipse: s-maj=48.3km s-min=26.8km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 19 09 41 58.2–.30 38.43N 143.71E 0 3.8
¶602674361
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 19 09 45 37.1–2.5 37.92N 144.40E 0 4.3L,4.2
¶16479397
IDC Error ellipse: s-maj=67.2km s-min=30.8km az=69.0.
ISC III 19 09 45 50.6–.79 37.21N–.09 143.8E–.10 35 4.0b 38 5-89
IDC III 19 09 45 45.7–.75 37.28N 143.85E 0 4.2,4.1 ¶17197176
ISCJB III 19 09 45 48.9–.58 37.29N–.07 143.74E–.09 33 4.1b,4.1
NEIC III 19 09 45 49.9–2.3 37.29N 143.79E 27–15 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=15.9km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=8.1km az=44.8.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.1km az=123.0.
ISC III 19 09 46 03.5–2.1 37.0N–.20 142.8E–.10 25 4.0b 7 2-61
IDC III 19 09 45 56.8–4.0 37.25N 144.01E 0 4.2,4.0 ¶17197180
JMA III 19 09 46 15.2–.30 37.47N 142.26E 20 3.5,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=90.0km s-min=29.0km az=42.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC III 19 10 07 53.3–5.7 37.76N 142.65E 0 3.9,3.6
¶600557199
IDC Error ellipse: s-maj=534.2km s-min=30.5km az=112.0.
ISC III 19 10 14 25.3–.84 37.9N–.10 144.5E–.10 35 3.6b 13 5-75
IDC III 19 10 14 20.2–.82 37.97N 144.56E 0 3.9,3.8 ¶17197185
ISCJB III 19 10 14 23.1–.71 37.9N–.10 144.5E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 10 21 20.8–.77 38.23N–.06 143.50E–.09 15 4.1b 46 2-74
IDC III 19 10 21 18.6–.85 38.21N 143.60E 0 4.2,4.1 ¶602674255
ISCJB III 19 10 21 19.2–.55 38.23N–.05 143.51E–.07 15 4.1b,4.1
NEIC III 19 10 21 20.4–.49 38.28N 143.52E 10 4.3b,4.1
JMA III 19 10 21 22.6–.30 38.34N 143.25E 15 4.3,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=21.8km s-min=15.0km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.5km az=43.1.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.3km az=119.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 19 10 39 08.6–.87 39.0N–.10 144.37E–.09 19 3.7b 16 5-87
IDC III 19 10 39 05.4–.77 38.86N 144.34E 0 3.9,3.8 ¶17197192
ISCJB III 19 10 39 06.7–.66 38.92N–.09 144.3E–.10 19 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 10 45 08.9–.65 35.53N–.07 143.72E–.08 35 4.0b 25 4-90
IDC III 19 10 45 04.6–.68 35.69N 143.69E 0 4.1,3.9 ¶16461979
NEIC III 19 10 45 09.6–.47 35.70N 143.48E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=16.8km az=120.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.8km az=112.0.
ISC III 19 10 51 06.4–1.2 39.86N–.08 143.4E–.10 6 3.9b 27 2-72
ISCJB III 19 10 51 03.4–.65 39.75N–.05 143.57E–.07 6 3.9b ¶16479417
IDC III 19 10 51 04.5–.99 39.74N 143.42E 0 3.9,3.8
JMA III 19 10 51 05.6–.40 39.84N 143.42E 7 4.1,3.8
NEIC III 19 10 51 10.3–.96 39.75N 143.39E 41–8 4.3b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.1km az=39.4.
IDC Error ellipse: s-maj=25.9km s-min=18.2km az=99.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=6.5km az=115.0.
ISC III 19 10 56 05.5–.70 38.32N–.06 144.47E–.07 29 4.2b 54 3-75
IDC III 19 10 56 01.0–.79 38.22N 144.55E 0 4.1,4.0 ¶16479422
ISCJB III 19 10 56 03.9–.47 38.27N–.05 144.40E–.05 29 4.1s,4.0b
NEIC III 19 10 56 05.0–2.2 38.26N 144.52E 25–15 4.4b,4.0b
JMA III 19 10 56 05.0–.20 38.39N 144.05E 1 4.5,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.4km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.7km az=153.5.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.0km az=107.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 19 10 59 07.7–.48 36.27N–.06 143.22E–.06 29 4.6b 122 4-146
IDC III 19 10 59 03.6–.55 36.38N 143.26E 0 4.5,4.4 ¶16338687
ISCJB III 19 10 59 06.1–.30 36.30N–.04 143.19E–.05 29 4.5b,4.4

NEIC III 19 10 59 08.8–1.4 36.37N 143.21E 34–9 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=12.8km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=148.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=140.0.
ISC III 19 10 59 19.3–.71 36.3N–.10 143.2E–.10 29 4.2b 17 4-146
IDC III 19 10 59 15.0–.65 36.37N 143.25E 0 4.4,4.2 ¶17197199
ISCJB III 19 10 59 17.4–.58 36.3N–.10 143.2E–.10 29 4.2b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 11 02 49.3–.58 38.02N–.05 143.08E–.06 18 4.0b 53 2-88
IDC III 19 11 02 46.6–.58 38.03N 143.10E 0 4.2,4.0 ¶16461980
ISCJB III 19 11 02 47.4–.39 37.97N–.04 143.17E–.05 18 4.0b,4.0
JMA III 19 11 02 49.3–.20 38.05N 142.91E 5–3 4.0,4.0
NEIC III 19 11 02 50.2–2.2 38.04N 143.16E 24–15 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=13.5km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=155.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.1km az=119.0.
JMA III 19 11 11 25.9–.30 39.58N 143.43E 13 3.8
¶602674185
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 19 11 15 55.0–.54 39.94N–.05 144.47E–.05 23–3 4.6b 199 2-117
IDC III 19 11 15 51.5–.50 39.82N 144.46E 0 4.5,4.4 ¶16338688
NEIC III 19 11 15 52.8–1.9 39.86N 144.40E 7–11 4.7b,4.4
ISCJB III 19 11 15 54.4–.26 39.85N–.03 144.34E–.04 29 4.5b,4.4
MOS III 19 11 15 54.9–1.2 39.92N 144.39E 33 4.8b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=12.0km az=131.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.8km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.3km az=141.9.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=103.8.
ISC III 19 11 18 19.2–2.6 36.32N–.05 142.50E–.06 15–16 4.5b,4.0s 130 1-151
NIED III 19 11 18 00 36.30N 142.50E 8 4.4W,4.0s ¶600557298
IDC III 19 11 18 16.8–.61 36.31N 142.52E 0 4.5,4.4
ISCJB III 19 11 18 17.1–1.3 36.34N–.03 142.52E–.04 12–8 4.5b,4.0s
JMA III 19 11 18 20.0–.20 36.31N 142.46E 73 4.4,4.0s
MOS III 19 11 18 20.4–1.1 36.39N 142.51E 34 4.8b,4.0s
NEIC III 19 11 18 22.1–.32 36.37N 142.47E 35 4.6b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ42.00000°,λ55.00000°. NP2:ϕ_s271.00000°,δ57.00000°,λ117.00000°. $M_0$4.72000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=13.5km az=143.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.3km az=152.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.7km az=112.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.5km az=119.0.
IDC III 19 11 25 02.5–2.8 36.39N 143.64E 0 3.8,3.6
¶17197202
IDC Error ellipse: s-maj=79.7km s-min=29.5km az=60.0.
ISC III 19 11 30 33.3–.44 39.49N–.06 144.29E–.06 23 4.5b 126 3-145
IDC III 19 11 30 28.9–.52 39.40N 144.39E 0 4.4,4.2 ¶16339526
ISCJB III 19 11 30 31.2–.25 39.40N–.04 144.28E–.04 23 4.4b,4.2
NEIC III 19 11 30 32.5–2.0 39.40N 144.30E 20–12 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=12.4km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.8km az=152.2.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=139.0.
ISC III 19 11 30 43.0–.93 39.4N–.20 144.3E–.10 23 4.2b 36 6-87
IDC III 19 11 30 39.8–1.2 39.43N 144.39E 0 4.4,4.2 ¶17197204
ISCJB III 19 11 30 41.6–.81 39.5N–.10 144.3E–.10 23 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 11 32 52.6–1.2 38.9N–.20 143.4E–.20 20 3.9b 8 25-63
IDC III 19 11 32 49.4–1.1 38.85N 143.41E 0 4.2,4.0 ¶17197209
ISCJB III 19 11 32 50.5–.92 38.8N–.10 143.4E–.20 20 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 11 41 28.8–.95 37.70N 142.65E 37–8 3.6,3.6
¶17197211
IDC Error ellipse: s-maj=32.0km s-min=18.9km az=86.0.
ISC III 19 11 51 54.2–.50 37.15N–.04 143.80E–.04 32–2 4.7b,4.0s 316 2-153
NIED III 19 11 51 00 37.20N 143.60E 8 4.5W,4.0s ¶16339144
IDC III 19 11 51 48.9–.42 37.05N 143.84E 0 4.6,4.6
ISCJB III 19 11 51 51.2–.92 37.16N–.03 143.68E–.02 15–5 4.7b,4.0s
JMA III 19 11 51 53.1–.30 37.15N 143.62E 56 4.5,4.0s
MOS III 19 11 51 54.7–.97 37.44N 143.65E 37 4.9b,4.0s
NEIC III 19 11 51 54.5–1.3 37.10N 143.76E 34–9 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ44.00000°,λ-114.00000°. NP2:ϕ_s39.00000°,δ51.00000°,λ-68.00000°. $M_0$7.24000×10^{15}
IDC Error ellipse: s-maj=11.8km s-min=10.7km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.0km az=166.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.2km az=109.7.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=135.0.
ISC III 19 11 53 36.4–.61 37.14N–.05 144.01E–.06 35 4.3b 60 3-98
IDC III 19 11 53 30.8–.63 37.02N 144.28E 0 4.5,4.3 ¶16479443
ISCJB III 19 11 53 34.6–.43 37.11N–.04 143.91E–.04 33 4.3b,4.3
JMA III 19 11 53 35.4–.40 37.27N 143.87E 47 4.5,4.3
NEIC III 19 11 53 35.9–.42 37.00N 144.19E 35 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=14.8km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.3km az=151.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.3km az=115.0.
ISC III 19 12 08 10.9–1.4 39.1N–.20 144.4E–.10 19 3.5b 10 6-75
IDC III 19 12 08 08.0–2.1 39.10N 144.44E 0 3.8,3.6 ¶17197218
ISCJB III 19 12 08 09.3–1.2 39.1N–.20 144.4E–.20 19 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 12 15 02.8–.87 36.17N–.08 142.51E–.08 18 3.6b 16 3-90
IDC III 19 12 14 59.4–1.1 36.14N 142.81E 0 3.7,3.6 ¶17197226
ISCJB III 19 12 15 00.4–.81 36.07N–.07 142.7E–.10 18 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 12 16 31.9–.56 37.30N–.06 143.19E–.08 25 4.3b 54 4-91
IDC III 19 12 16 28.0–.54 37.27N 143.19E 0 4.2,4.1 ¶16461981
ISCJB III 19 12 16 29.9–.38 37.24N–.04 143.16E–.06 25 4.3b,4.1
NEIC III 19 12 16 31.9–2.0 37.28N 143.22E 25–13 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=12.2km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.4km az=40.9.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.5km az=116.0.
ISC III 19 12 17 10.3–.74 37.20N–.08 143.2E–.10 24 4.2b 24 4-89
IDC III 19 12 17 07.0–.74 37.25N 143.26E 0 4.3,4.1 ¶16461982
ISCJB III 19 12 17 08.7–.56 37.22N–.07 143.2E–.10 24 4.2b,4.1
NEIC III 19 12 17 12.2–.41 37.27N 143.20E 35 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=18.5km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=9.7km az=15.3.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.7km az=104.0.
ISC III 19 12 18 38.2–1.2 37.39N–.07 142.3E–.10 21 4.0b 18 1-69
IDC III 19 12 18 34.6–1.6 37.31N 142.52E 0 4.1,4.1 ¶17197227
ISCJB III 19 12 18 35.8–.91 37.31N–.08 142.5E–.10 21 4.0b,4.1
JMA III 19 12 18 44.4–.40 37.45N 141.75E 37–4 3.5,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=47.0km s-min=19.1km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=11.5km az=143.2.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.

ISC III 19 12 19 08.0–.95 37.70N–.07 142.36E–.08 21 3.9b 18 1-69
IDC III 19 12 19 04.6–.93 37.69N 142.66E 0 4.0,3.9 ¶17197230
ISCJB III 19 12 19 06.3–.73 37.70N–.06 142.43E–.06 21 3.9b,3.5s
JMA III 19 12 19 09.2–.20 37.73N 142.24E 20–3 3.9,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=18.9km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.6km az=13.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 12 21 23.6–.93 36.4N–.10 143.57E–.10 35 3.6b 14 4-89
IDC III 19 12 21 18.6–1.1 36.48N 143.72E 0 3.8,3.7 ¶17197231
ISCJB III 19 12 21 21.7–.78 36.44N–.08 143.51E–.09 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 12 32 43.1–.81 39.94N–.06 144.32E–.08 34 4.1b 39 2-87
IDC III 19 12 32 37.4–.91 39.81N 144.58E 0 4.0,3.8 ¶16479461
NEIC III 19 12 32 40.0–2.6 39.85N 144.50E 15–16 4.2b,3.8
ISCJB III 19 12 32 41.4–.53 39.92N–.04 144.29E–.05 34 3.9b,3.8s
JMA III 19 12 32 42.6–.20 40.00N 144.19E 38 3.9,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=29.0km s-min=18.2km az=84.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=5.4km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.0km az=135.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 19 12 36 00.9–1.8 34.60N 141.61E 0 3.7,3.6
¶602674778
IDC Error ellipse: s-maj=43.1km s-min=24.4km az=79.0.
ISC III 19 13 08 49.3–.74 36.99N–.08 144.25E–.09 35 3.7b 23 5-88
IDC III 19 13 08 44.5–.76 37.02N 144.31E 0 3.9,3.8 ¶16479469
ISCJB III 19 13 08 47.4–.57 37.04N–.06 144.22E–.07 33 3.7b,3.8
NEIC III 19 13 08 49.7–.55 37.14N 144.16E 35 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=22.8km s-min=16.0km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.3km az=44.2.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=7.7km az=125.0.
ISC III 19 13 09 45.3–.62 39.83N–.09 144.40E–.09 34 4.0b 36 6-87
IDC III 19 13 09 40.3–.62 39.81N 144.50E 0 4.1,4.0 ¶16479470
ISCJB III 19 13 09 43.3–.46 39.80N–.06 144.37E–.08 34 4.0b,4.0
NEIC III 19 13 09 45.3–.41 39.83N 144.41E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=15.2km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.4km az=140.4.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.0km az=136.0.
ISC III 19 13 14 32.9–.41 39.87N–.05 144.49E–.05 28–2 4.5b,3.7s 256 2-153
IDC III 19 13 14 28.5–.49 39.81N 144.49E 0 4.4,4.3 ¶16339148
MOS III 19 13 14 32.1–1.1 39.89N 144.44E 33 4.8b,4.3
ISCJB III 19 13 14 32.6–.23 39.89N–.04 144.36E–.04 33 4.5b,3.7s
NEIC III 19 13 14 34.4–.21 39.87N 144.32E 35 4.6b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=11.8km az=129.0.
MOS Error ellipse: s-maj=7.7km s-min=4.9km az=100.3.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.8km az=160.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=155.0.
IDC III 19 13 17 37.0–5.4 37.77N 144.07E 0 4.1,4.1b
¶17197241
IDC Error ellipse: s-maj=106.2km s-min=48.7km az=8.0.
IDC III 19 13 28 11.1–1.3 36.80N 142.27E 0 3.4,3.3L
¶17197242
IDC Error ellipse: s-maj=33.8km s-min=27.0km az=89.0.
ISC III 19 13 35 35.0–.65 37.08N–.05 142.73E–.07 9 4.0b 38 2-89
NIED III 19 13 35 00 37.20N 142.60E 14 3.9W ¶16479474
ISCJB III 19 13 35 33.1–.47 37.02N–.04 142.78E–.05 9 4.0b,3.2s
IDC III 19 13 35 33.9–.65 37.09N 142.75E 0 4.0,3.9
JMA III 19 13 35 36.4–.50 37.15N 142.62E 14 4.2,3.9
NEIC III 19 13 35 38.7–.52 37.10N 142.71E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ45.00000°,λ-123.00000°. NP2:ϕ_s200.00000°,δ54.00000°,λ-62.00000°. $M_0$9.13000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.3km az=3.8.
IDC Error ellipse: s-maj=19.1km s-min=13.2km az=105.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.5km az=116.0.
ISC III 19 13 48 34.0–.95 37.9N–.20 144.0E–.10 35 3.6b 14 5-76
IDC III 19 13 48 28.8–.79 37.96N 143.92E 0 3.8,3.7b ¶17197248
ISCJB III 19 13 48 31.8–.74 37.9N–.10 144.0E–.10 33 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 14 07 44.2–1.5 38.3N–.20 144.7E–.20 29 3.7b 9 5-59
IDC III 19 14 07 40.3–1.7 38.27N 144.56E 0 3.8,3.7 ¶17197251
ISCJB III 19 14 07 42.1–1.3 38.2N–.20 144.7E–.20 29 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 14 17 04.5–1.5 36.5N–.10 143.4E–.10 35 3.6b 10 4-61
IDC III 19 14 16 59.5–2.1 36.48N 143.39E 0 4.3,4.3s ¶17197253
ISC Event type ke.
IDC Error ellipse: s-maj=54.7km s-min=22.2km az=66.0.
ISC III 19 14 20 01.9–.59 37.56N–.06 142.03E–.06 24 3.9b 41 1-146
IDC III 19 14 19 58.4–.65 37.57N 142.08E 0 4.0,3.9 ¶602673683
ISCJB III 19 14 19 60.0–.43 37.52N–.04 142.11E–.05 24 3.9b,3.9
JMA III 19 14 20 01.1–.20 37.56N 141.99E 15–2 4.1,3.9
NEIC III 19 14 20 04.5–1.1 37.54N 142.05E 46–11 4.4b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=17.4km s-min=14.7km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.3km az=151.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.9km az=73.0.
IDC III 19 14 22 55.8–1.2 36.41N 143.85E 0 3.8,3.6
¶17197256
IDC Error ellipse: s-maj=46.4km s-min=24.5km az=131.0.
ISC III 19 14 24 31.3–.61 38.33N–.06 144.49E–.07 29 4.1b 56 3-87
IDC III 19 14 24 26.7–.62 38.24N 144.59E 0 4.1,4.0 ¶16479491
ISCJB III 19 14 24 29.4–.43 38.32N–.04 144.46E–.04 29 4.0b,3.2s
JMA III 19 14 24 30.6–.20 38.37N 144.41E 39 4.3,3.2s
NEIC III 19 14 24 31.8–.42 38.28N 144.54E 35 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.9km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=152.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.7km az=139.0.
ISC III 19 14 46 09.3–.88 39.8N–.10 144.4E–.10 34 3.5b 14 6-87
IDC III 19 14 46 04.1–.82 39.79N 144.50E 0 3.7,3.6 ¶17197259
ISCJB III 19 14 46 07.4–.70 39.8N–.10 144.4E–.10 34 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 14 49 41.9–3.1 37.61N 144.03E 0 3.7,3.4
¶17197261
IDC Error ellipse: s-maj=74.8km s-min=37.7km az=58.0.
ISC III 19 14 57 31.7–.66 38.75N–.06 144.00E–.07 14 3.8b 52 2-87
IDC III 19 14 57 29.3–.69 38.65N 144.05E 0 4.0,3.9 ¶602673582
ISCJB III 19 14 57 29.8–.45 38.73N–.04 144.00E–.05 14 3.8b,3.5s
JMA III 19 14 57 31.4–.30 38.72N 144.02E 44 4.5,3.5s
NEIC III 19 14 57 34.6–.46 38.74N 143.94E 35 4.1b,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=18.5km s-min=13.7km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=140.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=6.5km az=131.0.
ISC III 19 14 59 42.1–1.2 38.3N–.20 144.6E–.10 29 3.6b 9 5-69
IDC III 19 14 59 37.6–1.1 38.32N 144.73E 0 3.8,3.7L ¶17197262
ISCJB III 19 14 59 39.9–1.0 38.3N–.20 144.6E–.10 29 3.6b,3.5s
ISC Event type ke.
ISCJB Event type ke.

ISC III 19 15 23 30.6–.71 37.09N–.07 144.15E–.08 35 3.9b 37 5-84
IDC III 19 15 23 25.6–.72 37.15N 144.19E 0 4.0,3.9 **¶16479501**
ISCJB III 19 15 23 28.7–.50 37.11N–.05 144.07E–.06 33 3.9b,3.9
NEIC III 19 15 23 30.7–.43 37.12N 144.17E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.5km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=136.8.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=125.0.
JMA III 19 15 28 36.2–.30 37.35N 142.26E 50 3.9
¶602673541
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 19 15 36 09.3–4.1 39.67N–.06 144.37E–.07 26–29 4.0b,3.5s 54 2-143
IDC III 19 15 36 04.7–.74 39.54N 144.53E 0 4.0,3.9 **¶602673525**
ISCJB III 19 15 36 08.2–1.7 39.65N–.04 144.31E–.05 32–12 3.8b,3.4s
JMA III 19 15 36 10.2–.30 39.73N 144.19E 40 4.2,3.4s
NEIC III 19 15 36 10.0–.56 39.61N 144.40E 35 4.2b,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=16.2km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.2km az=139.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.6km az=129.0.
IDC III 19 16 04 54.9–2.5 36.95N 143.60E 0 3.7,3.5
¶17197266
IDC Error ellipse: s-maj=71.1km s-min=29.0km az=62.0.
ISC III 19 16 05 51.9–1.3 36.9N–.20 143.4E–.20 35 3.4b 6 4-61
IDC III 19 16 05 47.1–1.2 36.86N 143.58E 0 3.7,3.7L **¶17197269**
ISCJB III 19 16 05 49.7–1.1 36.9N–.20 143.4E–.20 33 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 16 17 16.5–.61 37.62N–.06 142.99E–.06 24 4.0b 44 2-145
IDC III 19 16 17 13.2–.68 37.64N 142.97E 0 4.2,4.1 **¶16461986**
ISCJB III 19 16 17 14.9–.46 37.61N–.04 143.00E–.05 24 4.1s,4.0b
JMA III 19 16 17 15.4–.20 37.67N 142.91E 22 4.3,4.0b
NEIC III 19 16 17 17.9–.49 37.53N 143.04E 35 4.0b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.8km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=140.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.6km az=129.0.
ISC III 19 16 26 43.2–2.5 39.6N–.20 144.6E–.20 23 3.5b 10 6-68
IDC III 19 16 26 39.1–4.1 39.50N 144.61E 0 3.8,3.7 **¶17197273**
ISCJB III 19 16 26 42.2–1.9 39.7N–.20 144.4E–.30 23 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 16 35 31.4–3.2 36.28N 144.12E 0 3.6,3.4
¶17197275
IDC Error ellipse: s-maj=90.2km s-min=29.3km az=57.0.
JMA III 19 16 41 52.6–.40 39.66N 143.46E 9 3.7
¶602673415
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISC III 19 16 50 50.4–.80 40.09N–.05 144.29E–.07 34 3.8b 46 2-86
IDC III 19 16 50 45.2–.85 40.02N 144.41E 0 4.0,3.9b **¶17197276**
JMA III 19 16 50 49.2–.20 40.11N 144.18E 39 4.3,3.9b
ISCJB III 19 16 50 49.0–.56 40.09N–.03 144.23E–.05 34 3.8b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 17 03 42.7–1.0 39.6N–.20 144.3E–.20 23 3.7s,3.6b 10 20-74
IDC III 19 17 03 39.1–.88 39.57N 144.21E 0 3.8,3.6b **¶16479517**
ISCJB III 19 17 03 40.6–.77 39.6N–.10 144.2E–.20 23 3.8s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 17 29 57.8–1.8 36.7N–.10 144.5E–.20 35 3.5b 7 5-61
IDC III 19 17 29 51.4–2.1 36.76N 144.82E 0 3.5,3.5 **¶17197284**
ISC Event type ke.
IDC Error ellipse: s-maj=53.1km s-min=25.2km az=66.0.
IDC III 19 17 36 35.2–1.6 38.35N 144.22E 0 3.5,3.3
¶17197287
IDC Error ellipse: s-maj=43.2km s-min=31.4km az=128.0.
ISC III 19 17 40 35.1–1.6 35.70N–.06 142.0E–.10 22 3.5b 17 1-60
JMA III 19 17 40 32.5–.40 35.73N 142.27E 38 3.3 **¶17197288**
IDC III 19 17 40 32.4–2.1 35.58N 142.14E 0 3.5,3.4
ISCJB III 19 17 40 32.8–1.1 35.68N–.05 142.20E–.09 22 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 17 47 24.6–3.4 36.36N 142.49E 0 3.4,3.2b
¶17197291
IDC Error ellipse: s-maj=87.5km s-min=32.5km az=53.0.
IDC III 19 17 50 50.5–4.6 36.14N 143.51E 0 3.9,3.7
¶17197292
IDC Error ellipse: s-maj=97.0km s-min=33.4km az=32.0.
ISC III 19 18 02 41.0–.77 37.70N–.09 143.8E–.10 10 3.8b 20 5-76
ISCJB III 19 18 02 39.0–.60 37.63N–.07 143.84E–.10 10 3.7b **¶17197294**
IDC III 19 18 02 39.7–.74 37.74N 143.86E 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.4km az=35.8.
IDC Error ellipse: s-maj=19.8km s-min=14.1km az=128.0.
ISC III 19 18 09 27.1–.63 38.49N–.08 144.86E–.09 43 4.0b 48 4-87
IDC III 19 18 09 20.8–.65 38.44N 144.98E 0 4.1,4.0 **¶16479533**
ISCJB III 19 18 09 25.1–.41 38.43N–.06 144.78E–.07 43 4.0b,4.0
NEIC III 19 18 09 26.4–.43 38.49N 144.83E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=14.3km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=141.7.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.1km az=150.0.
ISC III 19 18 19 34.9–.99 37.70N–.08 142.76E–.10 24 3.6b 22 2-74
IDC III 19 18 19 30.5–1.0 37.69N 142.98E 0 3.7,3.6 **¶17197295**
ISCJB III 19 18 19 32.5–.72 37.63N–.06 142.85E–.08 24 3.5b,3.6
JMA III 19 18 19 33.5–.50 37.72N 142.52E 0 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.7km s-min=17.7km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.4km az=40.7.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 19 18 25 59.9–.74 37.08N–.04 142.50E–.06 9 3.5b 37 1-96
ISCJB III 19 18 25 58.6–.54 37.07N–.03 142.53E–.05 9 3.7b **¶17197296**
IDC III 19 18 25 58.3–.79 37.01N 142.56E 0 3.7,3.6
NIED III 19 18 26 00 37.10N 142.60E 14 3.7W,3.6
JMA III 19 18 26 01.0–.30 37.11N 142.55E 38 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=7.7.
IDC Error ellipse: s-maj=22.5km s-min=16.0km az=103.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ41.00000°,λ-49.00000°. NP2:ϕ_s312.00000°,δ60.00000°,λ-119.00000°. M_o3.87000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 19 18 31 55.2–.40 37.24N 142.43E 15 3.6
¶602673074
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 19 18 33 51.7–.82 37.28N–.07 143.46E–.07 35 3.7b 31 2-89
NIED III 19 18 33 00 37.40N 143.40E 5 3.7W **¶600557880**
IDC III 19 18 33 46.4–.84 37.25N 143.69E 0 3.9,3.7
ISCJB III 19 18 33 50.2–.64 37.25N–.06 143.43E–.05 33 3.7b,3.7
JMA III 19 18 33 51.3–.90 37.43N 143.38E 43 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ33.00000°,λ-78.00000°. NP2:ϕ_s197.00000°,δ57.00000°,λ-98.00000°. M_o3.40000×10^{14}
IDC Error ellipse: s-maj=23.4km s-min=17.8km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.5km az=155.9.
JMA Error ellipse: s-maj=5.6km s-min=7.1km az=-1.0.
ISC III 19 18 42 04.5–.82 38.71N–.04 143.81E–.04 29–5 4.8b,4.1s 367 2-145
IDC III 19 18 41 59.7–.47 38.59N 143.99E 0 4.6,4.5 **¶600557912**
NIED III 19 18 42 00 38.70N 143.90E 8 4.5W,4.5
ISCJB III 19 18 42 00.8–1.1 38.63N–.02 143.93E–.03 15–6 4.7b,4.1s
NEIC III 19 18 42 02.2–2.0 38.60N 143.94E 16–12 4.9b,4.1s
JMA III 19 18 42 02.8–.30 38.65N 143.92E 39 4.7,4.1s
MOS III 19 18 42 03.6–1.0 38.65N 143.91E 36 4.9b,4.1s
BJI III 19 18 42 08.4 38.70N 142.90E 27 4.9b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=13.3km s-min=11.0km az=118.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ42.00000°,λ-107.00000°. NP2:ϕ_s21.00000°,δ50.00000°,λ-75.00000°. M_o7.42000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=140.8.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=129.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=4.9km az=106.9.
JMA III 19 18 44 30.4–.30 38.62N 143.84E 52 3.7
¶602673953
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 19 18 47 50.6–1.2 37.70N 144.75E 0 3.7,3.5b
¶16479541
IDC Error ellipse: s-maj=35.4km s-min=26.4km az=106.0.
ISC III 19 18 48 43.2–.73 37.61N–.05 143.81E–.08 35 4.0b 55 2-75
NIED III 19 18 48 00 37.70N 143.70E 8 3.9W **¶17197298**
IDC III 19 18 48 37.6–.85 37.49N 144.06E 0 4.1,4.0
ISCJB III 19 18 48 41.7–.49 37.62N–.04 143.74E–.05 33 4.0b,4.0
JMA III 19 18 48 42.0–.50 37.66N 143.72E 46 4.3,4.0
NEIC III 19 18 48 42.8–.51 37.55N 144.00E 35 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ30.00000°,λ-99.00000°. NP2:ϕ_s25.00000°,δ61.00000°,λ-85.00000°. M_o7.82000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=16.7km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.8km az=31.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.7km az=125.0.
IDC III 19 18 50 49.9–3.0 37.18N 144.03E 0 3.6,3.4
¶17197300
IDC Error ellipse: s-maj=78.9km s-min=31.3km az=55.0.
ISC III 19 19 00 14.3–.80 37.74N–.08 144.06E–.08 35 4.4s,4.0b 47 3-77
IDC III 19 19 00 08.7–.90 37.78N 144.26E 0 4.0,3.9 **¶16479543**
JMA III 19 19 00 12.8–.30 37.87N 143.99E 39 4.3,3.9
NEIC III 19 19 00 12.5–2.2 37.73N 144.24E 25–15 4.8b,3.9
ISCJB III 19 19 00 12.2–.47 37.70N–.05 144.04E–.06 33 4.3s,4.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 19 19 02 48.2–1.5 38.6N–.10 144.1E–.20 14 3.6b 12 5-63
IDC III 19 19 02 45.8–2.0 38.61N 144.16E 0 3.8,3.6 **¶17197302**
ISCJB III 19 19 02 46.3–1.0 38.6N–.10 144.1E–.10 14 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 19 16 44.8–5.4 36.76N 144.64E 0 3.9s,3.9
¶17197305
IDC Error ellipse: s-maj=103.1km s-min=46.5km az=19.0.
ISC III 19 19 26 58.7–.53 38.52N–.07 144.76E–.05 43 4.3b 90 3-118
IDC III 19 19 26 52.5–.58 38.44N 144.91E 0 4.2,4.0 **¶16424546**
NEIC III 19 19 26 54.7–2.9 38.43N 144.90E 16–18 4.5b,4.0
JMA III 19 19 26 56.9–.30 38.51N 144.57E 36 4.4,4.0
ISCJB III 19 19 26 56.8–.31 38.47N–.04 144.68E–.04 43 4.7s,4.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 19 19 33 07.2–1.1 37.7N–.20 143.0E–.20 24 3.4b 7 4-63
IDC III 19 19 33 03.5–.96 37.63N 143.00E 0 3.5,3.3 **¶17197311**
ISCJB III 19 19 33 04.9–.93 37.6N–.10 143.1E–.20 24 3.3b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 19 48 25.4–.97 36.15N–.09 144.13E–.10 35 3.4b 14 5-89
IDC III 19 19 48 20.3–1.0 36.22N 144.30E 0 3.7,3.5 **¶17197313**
ISCJB III 19 19 48 23.5–.79 36.12N–.08 144.08E–.09 33 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 19 57 09.3–2.0 37.09N–.05 142.2E–.10 55–18 3.5b 18 1-69
IDC III 19 19 57 03.1–1.6 37.20N 142.08E 0 3.7,3.6 **¶600557989**
JMA III 19 19 57 05.9–.40 37.13N 142.40E 24 3.9,3.6
ISCJB III 19 19 57 06.6–1.5 37.06N–.05 142.4E–.10 51–14 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 20 02 58.5–1.9 36.76N 144.79E 0 3.5,3.5b
¶17197317
IDC Error ellipse: s-maj=41.3km s-min=31.4km az=98.0.
ISC III 19 20 04 03.9–.73 38.75N–.08 144.00E–.07 14 3.9b 49 2-87
IDC III 19 20 04 01.1–.82 38.59N 144.04E 0 3.9,3.8 **¶16461988**
ISCJB III 19 20 04 02.6–.53 38.73N–.06 143.94E–.05 14 3.8b,3.8
JMA III 19 20 04 03.6–.40 38.70N 143.71E 2 4.2,3.8
NEIC III 19 20 04 07.5–1.2 38.59N 143.93E 44–10 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=17.8km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.5km az=166.9.
JMA Error ellipse: s-maj=4.4km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.7km az=93.0.
IDC III 19 20 08 10.7–15 39.12N 144.27E 0 4.1,3.8
¶17197318
IDC Error ellipse: s-maj=335.3km s-min=60.7km az=4.0.
ISC III 19 20 11 05.8–1.1 38.6N–.10 144.1E–.10 29 3.6b 11 5-72
IDC III 19 20 11 01.2–1.1 38.58N 144.29E 0 3.9,3.9 **¶17197320**
ISCJB III 19 20 11 03.9–.88 38.6N–.10 144.0E–.10 29 3.9s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 20 56 46.7–.97 38.5N–.10 144.2E–.10 10 3.4b 14 5-87
ISCJB III 19 20 56 44.9–.78 38.51N–.10 144.2E–.10 10 3.4b **¶17197325**
IDC III 19 20 56 45.2–.86 38.48N 144.08E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=9.3km az=145.4.
IDC Error ellipse: s-maj=21.4km s-min=18.3km az=93.0.
ISC III 19 21 06 35.9–1.2 37.1N–.10 142.45E–.08 10 3.5b 15 1-69
ISCJB III 19 21 06 33.8–.93 37.3N–.10 142.54E–.09 10 3.5b **¶17197327**
IDC III 19 21 06 33.2–1.7 37.47N 142.79E 0 3.6,3.6b
JMA III 19 21 06 45.4–.30 36.60N 141.76E 49 2.6,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=9.8km az=3.9.
IDC Error ellipse: s-maj=51.9km s-min=21.4km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 19 21 11 28.6–1.3 38.06N–.07 144.29E–.09 35 3.6b 17 3-62
NIED III 19 21 11 00 37.90N 144.10E 5 3.6W **¶17197330**
JMA III 19 21 11 25.2–.40 37.95N 144.12E 15 4.1
IDC III 19 21 11 25.9–2.4 37.71N 144.31E 0 3.8,3.6b
ISCJB III 19 21 11 26.4–.90 38.05N–.05 144.28E–.07 33 3.6b,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ42.00000°,λ-40.00000°. NP2:ϕ_s149.00000°,δ65.00000°,λ-124.00000°. M_o3.13000×10^{14}
ISCJB Event type ke.
ISC III 19 21 13 02.9–1.1 37.4N–.10 142.47E–.07 21 3.5b 12 1-77
IDC III 19 21 12 59.9–.93 37.21N 142.76E 0 3.8,3.6 **¶602672892**
NIED III 19 21 13 00 37.40N 142.60E 8 3.7W,3.6
ISCJB III 19 21 13 01.4–.79 37.29N–.09 142.62E–.06 21 3.4b,3.6
JMA III 19 21 13 02.7–.30 37.43N 142.62E 40 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.8km s-min=21.6km az=101.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ39.00000°,λ-94.00000°. NP2:ϕ_s35.00000°,δ51.00000°,λ-87.00000°. M_o3.80000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=6.8km az=5.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 19 21 16 30.7–1.2 36.80N–.07 144.60E–.09 26 3.6b 19 3-61
NIED III 19 21 16 00 36.80N 144.30E 41 3.7W **¶600558105**

ISCJB III 19 21 16 30.1–.86 36.78N–.04 144.46E–.07 26 3.6b
JMA III 19 21 16 34.6–.40 36.76N 144.26E 39 4.0
IDC III 19 21 16 40.4–4.4 35.49N 141.64E 0 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S36.00000°,δ34.00000°,λ-23.00000°. NP2:ϕ_S145.00000°,δ78.00000°,λ-122.00000°. $M_0$4.66000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.9km az=24.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=134.6km s-min=27.0km az=56.0.
IDC III 19 21 34 53.5–3.5 36.59N 144.59E 0 3.5,3.5L
¶17197334
IDC Error ellipse: s-maj=89.6km s-min=36.3km az=54.0.
ISC III 19 21 41 07.0–1.9 37.15N–.09 142.48E–.10 9 3.4b 17 1-45
IDC III 19 21 40 56.5–11 36.42N 143.47E 0 3.5,3.5 **¶17197335**
JMA III 19 21 41 05.3–.40 37.15N 142.57E 6 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=205.0km s-min=75.2km az=144.0.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC III 19 22 06 47.7–.48 37.57N–.04 144.48E–.04 32–2 4.7b,3.5s 285 3-153
NIED III 19 22 06 00 37.70N 144.20E 8 4.3W,3.5s **¶602672721**
IDC III 19 22 06 42.7–.49 37.56N 144.51E 0 4.4,4.3
NEIC III 19 22 06 44.0–2.1 37.57N 144.40E 5–13 4.8b,4.3
ISCJB III 19 22 06 46.7–.20 37.61N–.03 144.28E–.03 33 4.6b,3.5s
JMA III 19 22 06 47.2–.30 37.73N 144.24E 46 4.3,3.5s
MOS III 19 22 06 48.0–.78 37.87N 144.29E 33 4.8b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S162.00000°,δ44.00000°,λ-143.00000°. NP2:ϕ_S44.00000°,δ65.00000°,λ-52.00000°. $M_0$2.81000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=11.4km az=117.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.8km az=170.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.7km s-min=5.8km az=95.9.
ISC III 19 22 16 58.1–1.1 37.50N–.06 144.60E–.09 35 3.4b 21 3-58
JMA III 19 22 16 47.0–.60 37.34N 144.58E 0 4.4 **¶17197344**
IDC III 19 22 16 53.5–1.3 37.44N 144.62E 0 3.7,3.6
ISCJB III 19 22 16 54.6–.86 37.41N–.05 144.58E–.07 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 22 22 39.1–.74 39.32N–.06 144.34E–.06 23 3.9b 49 2-79
ISCJB III 19 22 22 37.7–.52 39.36N–.04 144.27E–.04 23 3.8b,3.2s **¶17197345**
JMA III 19 22 22 38.5–.30 39.29N 144.29E 40 4.0,3.2s
IDC III 19 22 22 39.7–6.0 39.07N 144.33E 33–45 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=148.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=16.5km az=114.0.
ISC III 19 22 24 00.9–.66 37.26N–.06 144.12E–.07 35 4.0b 48 3-84
IDC III 19 22 23 55.3–.65 37.20N 144.31E 0 4.1,3.9 **¶16479307**
ISCJB III 19 22 23 59.4–.47 37.30N–.05 144.03E–.04 33 3.9b,3.9
NEIC III 19 22 23 59.3–2.6 37.21N 144.27E 25–17 4.0b,3.9
JMA III 19 22 24 00.6–.40 37.41N 143.89E 29 4.3,3.9
NIED III 19 22 24 00 37.40N 143.90E 5 4.0W,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.5km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.5km az=168.2.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.3km az=131.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S23.00000°,δ20.00000°,λ-106.00000°. NP2:ϕ_S220.00000°,δ70.00000°,λ-84.00000°. $M_0$1.05000×10^{15}
ISC III 19 22 32 52.4–.91 37.1N–.10 144.3E–.10 35 3.9b 21 5-84
IDC III 19 22 32 47.6–.84 37.12N 144.26E 0 3.9,3.8b **¶16479308**
ISCJB III 19 22 32 50.3–.68 37.09N–.09 144.18E–.10 33 3.9b,3.8b
NEIC III 19 22 32 52.5–.63 37.10N 144.23E 35 4.2b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=17.6km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=9.7km az=147.1.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=10.1km az=141.0.
ISC III 19 23 18 10.9–1.1 36.22N–.09 142.2E–.10 15 3.9b 15 3-72
IDC III 19 23 18 07.8–2.3 36.37N 142.47E 0 3.9,3.9 **¶16479309**
ISCJB III 19 23 18 08.9–.89 36.25N–.10 142.32E–.10 15 3.8b,3.4s
NEIC III 19 23 18 13.8–.79 36.28N 142.21E 35 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=53.3km s-min=24.5km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=11.4km az=173.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=12.9km az=169.0.
ISC III 19 23 20 45.8–.70 36.66N–.10 143.69E–.08 35 4.1b 25 4-145
IDC III 19 23 20 40.8–.66 36.65N 143.82E 0 4.1,4.0 **¶16479310**
ISCJB III 19 23 20 43.6–.54 36.63N–.07 143.68E–.07 33 4.0b,4.0
NEIC III 19 23 20 46.0–.41 36.66N 143.72E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.8km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.7km az=151.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.4km az=165.0.
IDC III 19 23 24 23.9–1.5 37.30N 144.24E 0 3.7,3.7b
¶600558275
IDC Error ellipse: s-maj=33.1km s-min=27.5km az=131.0.
ISC III 19 23 26 51.5–1.8 37.19N–.04 142.03E–.05 30–12 4.7b 236 1-146
NIED III 19 23 26 00 37.20N 142.00E 23 4.4W **¶602672564**
ISCJB III 19 23 26 48.1–.83 37.15N–.02 142.05E–.03 18–5 4.7b,3.8s
JMA III 19 23 26 49.8–.20 37.19N 142.00E 39–3 4.5,3.8s
MOS III 19 23 26 50.0–.81 37.16N 142.05E 33 4.9b,3.8s
IDC III 19 23 26 52.0–2.9 37.17N 142.01E 34–22 4.4,4.3
NEIC III 19 23 26 52.6–.41 37.17N 142.02E 37–4 4.8b,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S43.00000°,δ41.00000°,λ91.00000°. NP2:ϕ_S222.00000°,δ49.00000°,λ89.00000°. $M_0$4.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.8km az=24.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=5.6km az=115.0.
IDC Error ellipse: s-maj=11.8km s-min=10.5km az=100.0.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.7km az=136.0.
ISC III 19 23 33 22.2–.82 38.2N–.10 144.7E–.10 35 3.9b 27 4-118
IDC III 19 23 33 16.9–.76 38.20N 144.73E 0 4.1,3.9 **¶16479312**
NEIC III 19 23 33 18.9–3.2 38.20N 144.71E 14–19 4.2b,3.9
ISCJB III 19 23 33 20.1–.63 38.21N–.08 144.58E–.09 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 19 23 48 46.5–12 35.46N 143.37E 0 3.5,3.5L
¶17197353
IDC Error ellipse: s-maj=275.6km s-min=97.2km az=169.0.
IDC III 19 23 57 14.5–5.8 38.18N 144.16E 0 3.9,3.8
¶16479599
IDC Error ellipse: s-maj=132.6km s-min=30.3km az=163.0.
ISC III 19 23 57 23.7–2.8 35.55N–.05 142.10E–.07 23–19 4.1b,3.5s 50 1-147
NIED III 19 23 57 00 35.60N 142.30E 8 4.3W,3.5s **¶600558297**
IDC III 19 23 57 20.2–.62 35.53N 142.06E 0 4.2,4.0
JMA III 19 23 57 21.4–.20 35.58N 142.26E 59 4.5,4.0
ISCJB III 19 23 57 23.3–1.0 35.54N–.04 142.14E–.07 33–9 4.1b,3.5s
NEIC III 19 23 57 26.8–1.1 35.53N 141.98E 47–9 4.3b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S180.00000°,δ39.00000°,λ73.00000°. NP2:ϕ_S22.00000°,δ53.00000°,λ104.00000°. $M_0$3.37000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=14.6km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.6km az=178.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.3km az=118.0.
IDC III 20 00 05 37.6–1.4 36.91N 142.28E 0 3.5,3.3
¶17197358
IDC Error ellipse: s-maj=32.0km s-min=29.7km az=83.0.

IDC III 20 00 18 38.4–3.1 38.48N 144.27E 0 3.4,3.3b
¶16479605
IDC Error ellipse: s-maj=72.8km s-min=35.7km az=64.0.
ISC III 20 00 19 25.8–1.2 37.2N–.20 143.6E–.10 35 3.9b 11 4-61
IDC III 20 00 19 21.2–1.9 37.07N 143.57E 0 3.8,3.8L **¶17197359**
ISCJB III 20 00 19 23.6–.91 37.1N–.10 143.58E–.09 33 3.8b,3.8L
NEIC III 20 00 19 25.9–.89 37.15N 143.57E 35 4.0b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=49.0km s-min=23.2km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=9.5km az=169.4.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=16.3km az=165.0.
IDC III 20 00 42 55.0–2.6 37.77N 143.63E 0 3.6,3.5
¶17197361
IDC Error ellipse: s-maj=68.0km s-min=29.2km az=66.0.
ISC III 20 00 52 02.5–.67 38.61N–.07 143.96E–.07 14 4.0b 46 2-118
IDC III 20 00 51 59.8–.70 38.58N 144.11E 0 4.1,4.0 **¶16462014**
ISCJB III 20 00 52 01.0–.47 38.62N–.04 143.95E–.05 14 4.0b,4.0
JMA III 20 00 52 04.3–.40 38.58N 143.84E 36 3.9,4.0
NEIC III 20 00 52 04.1–2.4 38.60N 144.07E 27–16 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=14.7km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=155.3.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.3km az=122.0.
ISC III 20 01 18 54.2–.54 38.89N–.06 144.14E–.06 23 4.5b 85 2-117
NIED III 20 01 18 00 39.00N 144.00E 5 4.3W **¶602678416**
IDC III 20 01 18 50.1–.57 38.72N 144.23E 0 4.4,4.3
ISCJB III 20 01 18 52.1–.33 38.80N–.04 144.12E–.04 23 4.3b,4.3
NEIC III 20 01 18 53.4–1.5 38.71N 144.20E 22–11 4.6b,4.3
JMA III 20 01 18 53.8–.40 38.98N 144.02E 25 4.4,4.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S10.00000°,δ37.00000°,λ-94.00000°. NP2:ϕ_S195.00000°,δ53.00000°,λ-87.00000°. $M_0$3.18000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=12.3km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.8km az=158.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=133.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 20 01 38 34.4–.95 37.77N–.06 142.17E–.07 30 4.2b 31 1-62
IDC III 20 01 38 29.1–1.6 37.85N 142.61E 0 4.0,4.0 **¶16479611**
NEIC III 20 01 38 31.5–4.3 37.78N 142.58E 19–27 4.4b,4.0
ISCJB III 20 01 38 32.5–.61 37.70N–.04 142.27E–.06 30 4.1b,4.0
JMA III 20 01 38 35.0–.20 37.74N 142.03E 28–5 4.5,4.0
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=21.3km az=68.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=10.1km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=6.1km az=0.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 20 01 47 53.2–.50 38.60N 144.05E 24 4.2
¶602678691
JMA Error ellipse: s-maj=4.4km s-min=4.3km az=-1.0.
ISC III 20 01 51 39.3–.75 36.13N–.05 142.01E–.09 21–5 4.0b 42 1-152
IDC III 20 01 51 36.3–.97 36.10N 142.01E 0 3.9,3.8L **¶16479612**
ISCJB III 20 01 51 39.5–1.1 36.11N–.04 142.04E–.09 39–9 4.0b,3.8L
JMA III 20 01 51 40.2–.20 36.19N 141.95E 56 3.6,3.8L
NEIC III 20 01 51 41.1–1.0 36.08N 141.99E 35–9 4.3b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=19.2km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=6.2km az=174.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.4km az=79.0.
ISC III 20 02 49 52.9–2.9 38.5N–.10 143.1E–.10 2–16 3.5b 17 2-59
IDC III 20 02 49 50.0–3.0 38.74N 143.76E 0 3.5,3.5b **¶17197368**
JMA III 20 02 49 55.2–.30 38.71N 143.07E 6–4 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=71.0km s-min=33.6km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 02 54 20.0–1.1 37.3N–.10 144.0E–.10 35 3.6b 10 5-70
IDC III 20 02 54 15.0–1.1 37.40N 144.04E 0 3.8,3.7 **¶17197369**
ISCJB III 20 02 54 18.0–.97 37.3N–.10 143.9E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 20 02 57 02.5–.50 38.42N 143.43E 9 3.6
¶602678210
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 20 03 06 40.4–.50 38.28N–.07 144.76E–.06 43 4.4b,3.5s 102 4-118
IDC III 20 03 06 34.2–.59 38.24N 144.88E 0 4.3,4.2 **¶602678139**
NEIC III 20 03 06 37.3–2.7 38.30N 144.79E 16–16 4.5b,4.2
ISCJB III 20 03 06 39.0–.27 38.25N–.05 144.76E–.05 43 4.3b,3.6s
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 20 03 11 36.0–1.8 37.3N–.10 143.6E–.10 35 3.6b 8 4-61
IDC III 20 03 11 27.1–1.2 37.63N 144.26E 0 3.7,3.7L **¶17197370**
ISC Event type ke.
IDC Error ellipse: s-maj=36.3km s-min=24.3km az=116.0.
ISC III 20 04 31 54.6–1.1 40.02N–.07 143.6E–.10 6 3.5b 21 2-60
ISCJB III 20 04 31 52.3–.81 39.86N–.07 143.83E–.09 6 3.8s,3.4b **¶17197383**
IDC III 20 04 31 53.2–1.1 39.89N 143.80E 0 3.8,3.8
JMA III 20 04 31 54.7–.30 39.96N 143.71E 15 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.1km az=43.7.
IDC Error ellipse: s-maj=31.1km s-min=18.9km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 20 04 38 03.3–.46 36.29N–.04 143.15E–.06 29 4.2b 83 2-153
IDC III 20 04 37 58.8–.53 36.24N 143.29E 0 4.2,4.1 **¶603049946**
NIED III 20 04 38 00 36.40N 143.00E 5 4.1W,4.1
ISCJB III 20 04 38 01.9–.35 36.31N–.03 143.06E–.04 29 4.1b,4.1
NEIC III 20 04 38 02.5–2.0 36.21N 143.27E 25–14 4.5b,4.1
JMA III 20 04 38 03.0–.20 36.36N 143.01E 64 4.0,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=102.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S49.00000°,δ27.00000°,λ-90.00000°. NP2:ϕ_S229.00000°,δ63.00000°,λ-90.00000°. $M_0$1.51000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.9km az=158.2.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.8km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 04 40 23.1–.66 39.97N–.06 143.57E–.07 6 4.3b 54 2-150
NIED III 20 04 40 00 40.00N 143.50E 14 4.2W **¶16462018**
ISCJB III 20 04 40 20.5–.43 39.94N–.04 143.70E–.05 6 4.2b,3.4s
IDC III 20 04 40 21.2–.76 39.91N 143.74E 0 4.0,3.9
JMA III 20 04 40 23.0–.40 40.02N 143.49E 4 4.2,3.9
NEIC III 20 04 40 24.7–2.0 39.92N 143.72E 24–14 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S219.00000°,δ29.00000°,λ106.00000°. NP2:ϕ_S20.00000°,δ62.00000°,λ81.00000°. $M_0$2.34000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=33.1.
IDC Error ellipse: s-maj=19.1km s-min=15.6km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=103.0.
ISC III 20 04 49 53.1–.66 37.71N–.06 143.49E–.07 35 3.6b 30 2-145
NIED III 20 04 49 00 37.90N 143.50E 11 3.9W **¶17197389**
IDC III 20 04 49 47.6–.80 37.62N 143.78E 0 3.8,3.7
JMA III 20 04 49 49.2–.70 37.89N 143.53E 39 3.9,3.7
ISCJB III 20 04 49 51.2–.57 37.76N–.05 143.41E–.06 33 3.7b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S32.00000°,δ35.00000°,λ-97.00000°. NP2:ϕ_S220.00000°,δ55.00000°,λ-85.00000°. $M_0$7.31000×10^{14}
ISCJB Event type ke.
ISC III 20 05 08 53.3–1.0 38.6N–.20 144.2E–.20 29 3.5b 6 5-87
IDC III 20 05 08 49.3–.96 38.45N 144.47E 0 3.7,3.5 **¶17197391**
ISCJB III 20 05 08 51.6–.86 38.4N–.10 144.3E–.20 29 3.5b,3.5

ISC Event type ke.
ISCJB Event type ke.
ISC III 20 05 10 31.9–1.2 37.5N–.20 144.2E–.10 35 3.5b 9 5-62
IDC III 20 05 10 26.5–1.1 37.51N 144.41E 0 3.8L,3.7 **¶17197392**
ISCJB III 20 05 10 29.7–.99 37.4N–.10 144.2E–.10 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 20 05 10 36.8–1.6 37.50N 144.22E 0 3.8,3.4
¶17197395
IDC Error ellipse: s-maj=58.3km s-min=31.8km az=129.0.
ISC III 20 05 16 00.7–.55 37.52N–.07 143.83E–.08 35 4.0b 42 5-88
NEIC III 20 05 15 57.1–.35 37.57N 143.92E 10 4.3b **¶16479652**
ISCJB III 20 05 15 58.6–.47 37.54N–.06 143.83E–.07 33 4.0b
IDC III 20 05 16 01.5–.54 37.55N 143.91E 40–5 4.0,4.0L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.4km az=140.6.
IDC Error ellipse: s-maj=16.2km s-min=11.5km az=121.0.
ISC III 20 05 27 27.8–.95 37.2N–.10 143.0E–.10 25 3.6b 12 4-75
ISCJB III 20 05 27 25.2–1.0 37.1N–.10 143.1E–.10 25 3.5b **¶17197396**
IDC III 20 05 27 28.8–.97 37.25N 143.06E 32–6 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=15.3km az=157.3.
IDC Error ellipse: s-maj=26.3km s-min=19.8km az=109.0.
IDC III 20 05 32 25.9–2.7 36.93N 143.08E 0 3.7,3.7b
¶17197397
IDC Error ellipse: s-maj=75.3km s-min=29.7km az=64.0.
ISC III 20 05 48 02.9–2.1 37.0N–.20 142.9E–.30 25 3.6b 6 4-57
IDC III 20 05 47 58.3–2.8 36.99N 143.12E 0 3.6,3.6 **¶17197401**
ISC Event type ke.
IDC Error ellipse: s-maj=61.9km s-min=29.8km az=75.0.
ISC III 20 05 48 56.1–.88 36.91N–.07 142.04E–.07 19 3.6b 17 1-90
NIED III 20 05 48 00 37.00N 142.00E 47 4.0W **¶17197404**
IDC III 20 05 48 53.2–1.0 36.95N 142.10E 0 3.9,3.7
ISCJB III 20 05 48 54.5–.78 36.98N–.06 142.11E–.06 19 3.6b,3.7
JMA III 20 05 48 56.8–.20 36.96N 142.01E 26 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S55.00000°,δ28.00000°,λ176.00000°. NP2:ϕ_S149.00000°,δ88.00000°,λ62.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=27.1km s-min=21.5km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.3km az=179.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 20 05 54 51.0–3.6 36.39N 142.31E 0 4.3,4.3s
¶16479662
IDC Error ellipse: s-maj=87.6km s-min=38.7km az=55.0.
ISC III 20 06 16 38.7–.66 37.31N–.05 142.23E–.07 24 3.8b 37 1-146
NIED III 20 06 16 00 37.30N 142.10E 32 4.1W **¶602677870**
IDC III 20 06 16 34.9–.74 37.27N 142.29E 0 4.1L,3.9
ISCJB III 20 06 16 36.8–.50 37.30N–.03 142.26E–.05 24 3.8b,3.9
JMA III 20 06 16 38.6–.20 37.33N 142.06E 22–3 4.0,3.9
NEIC III 20 06 16 40.1–.76 37.25N 142.27E 36–7 4.6b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S274.00000°,δ39.00000°,λ-117.00000°. NP2:ϕ_S127.00000°,δ56.00000°,λ-70.00000°. $M_0$1.45000×10^{15}
IDC Error ellipse: s-maj=20.1km s-min=16.3km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=4.6km az=25.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=5.9km az=119.0.
ISC III 20 06 20 00.1–2.2 37.24N–.05 142.22E–.07 1–13 3.7b 26 1-69
IDC III 20 06 19 59.6–1.4 37.24N 142.39E 0 3.8,3.6 **¶17197408**
JMA III 20 06 20 00.6–.30 37.25N 142.32E 12–3 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=24.4km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 06 23 38.2–.55 36.36N–.05 142.90E–.06 29 4.1b 68 2-146
NIED III 20 06 23 00 36.40N 142.70E 5 4.1W **¶600558649**
IDC III 20 06 23 33.8–.65 36.30N 142.98E 0 4.2,4.1
ISCJB III 20 06 23 36.6–.41 36.36N–.04 142.85E–.04 29 4.1b,4.1
JMA III 20 06 23 38.1–.20 36.39N 142.75E 66 4.0,4.1
NEIC III 20 06 23 39.1–.42 36.34N 142.93E 35 4.2b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S13.00000°,δ17.00000°,λ-105.00000°. NP2:ϕ_S209.00000°,δ73.00000°,λ-85.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=15.2km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=149.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.6km az=134.0.
ISC III 20 07 27 21.0–.32 36.66N–.04 143.27E–.04 29–1 5.1s,4.8b 764 2-153
NIED III 20 07 27 00 36.80N 143.10E 5 4.7W,4.8b **¶602677409**
ISCJB III 20 07 27 16.9–.92 36.64N–.03 143.19E–.02 10–5 5.0s,4.8b
IDC III 20 07 27 16.7–.44 36.62N 143.29E 0 4.7,4.6
MOS III 20 07 27 19.7–.83 36.63N 143.19E 34 5.0b,4.6
NEIC III 20 07 27 19.3–1.8 36.64N 143.22E 14–11 4.9b,4.6
BJI III 20 07 27 19.7 36.95N 143.15E 25 5.2s,5.0b
JMA III 20 07 27 20.4–.20 36.77N 143.07E 57 4.6,5.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S33.00000°,δ20.00000°,λ-91.00000°. NP2:ϕ_S215.00000°,δ70.00000°,λ-90.00000°. $M_0$1.35000×10^{16}
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.4km az=170.5.
IDC Error ellipse: s-maj=11.6km s-min=11.4km az=169.0.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=127.5.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.0km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 20 07 40 10.5–.50 36.41N 143.44E 0 3.8
¶602677367
JMA Error ellipse: s-maj=5.6km s-min=3.6km az=-1.0.
ISC III 20 07 45 50.8–1.1 36.3N–.10 142.27E–.08 15 3.9b 13 3-70
IDC III 20 07 45 48.8–1.0 36.35N 142.18E 0 3.9,3.8 **¶17197422**
ISCJB III 20 07 45 49.0–.86 36.3N–.10 142.2E–.20 15 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 07 54 14.3–.45 39.92N–.05 143.60E–.05 31–2 5.2s,4.9b 270 2-154
ISCJB III 20 07 54 09.8–1.3 39.87N–.03 143.63E–.04 12–8 5.1s,4.8b **¶602707310**
IDC III 20 07 54 09.2–.42 39.79N 143.65E 0 4.5s,4.5
JMA III 20 07 54 12.5–.30 39.91N 143.59E 34 5.1,4.5
MOS III 20 07 54 13.3–1.0 39.90N 143.57E 34 5.2b,4.5
NEIC III 20 07 54 15.2–.65 39.85N 143.51E 35–5 5.2b,4.5
BJI III 20 07 54 20.9 40.21N 142.52E 43 5.5b,5.2s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=37.7.
IDC Error ellipse: s-maj=12.6km s-min=10.4km az=104.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=4.8km az=112.5.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.2km az=136.0.
ISC III 20 08 12 36.7–.57 35.68N–.05 142.08E–.06 22 4.0b 47 1-147
ISCJB III 20 08 12 34.8–.43 35.66N–.03 142.19E–.05 22 4.2s,4.2b **¶16479686**
IDC III 20 08 12 34.0–.69 35.70N 142.04E 0 4.2,4.2s
JMA III 20 08 12 35.8–.30 35.83N 142.19E 47 3.7,4.2s
NEIC III 20 08 12 36.3–3.6 35.64N 142.07E 15–22 4.6b,4.2s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.0km az=4.0.
IDC Error ellipse: s-maj=18.9km s-min=14.9km az=79.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.1km az=87.0.
ISC III 20 08 33 56.1–1.9 39.22N–.09 144.2E–.10 23 4.3b 17 2-63
IDC III 20 08 33 56.6–2.0 38.45N 144.52E 0 4.3,4.3 **¶600558770**
JMA III 20 08 33 57.8–.30 39.18N 144.10E 41 4.2,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=44.9km s-min=30.0km az=77.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 20 08 36 42.6–1.0 39.73N–.06 144.44E–.07 23 4.7s,4.1b 40 2-87
IDC III 20 08 36 38.4–1.5 39.55N 144.67E 0 4.9,4.9s **¶17197425**
ISCJB III 20 08 36 42.1–.70 39.78N–.04 144.30E–.06 23 5.0s,4.0b
JMA III 20 08 36 43.2–.30 39.74N 144.30E 43 4.0,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=25.4km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=35.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 20 08 42 01.4–.54 37.21N–.05 142.38E–.07 9 4.2b 64 1-151
ISCJB III 20 08 41 59.1–.42 37.15N–.04 142.46E–.06 9 4.1b **¶600558781**
IDC III 20 08 41 59.7–.61 37.15N 142.49E 0 4.2,4.1
NEIC III 20 08 42 01.3–2.3 37.19N 142.49E 10–14 4.6b,4.1
JMA III 20 08 42 03.4–.30 37.33N 142.09E 14–3 4.4,4.1
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=4.3km az=30.1.
IDC Error ellipse: s-maj=15.9km s-min=13.2km az=98.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.8km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 20 08 46 23.5–.40 38.95N 144.44E 46 3.8
¶602678162
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 20 09 07 16.9–1.2 37.5N–.20 144.1E–.20 35 3.8b 8 5-62
IDC III 20 09 07 11.7–1.0 37.44N 144.13E 0 3.8,3.8L **¶17197427**
ISCJB III 20 09 07 14.5–.97 37.4N–.10 144.1E–.20 33 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 09 07 53.2–1.1 39.79N–.07 143.7E–.10 16 3.7b 21 2-70
IDC III 20 09 07 48.7–.93 39.95N 144.28E 0 3.8,3.7 **¶17197428**
ISCJB III 20 09 07 51.1–.79 39.81N–.06 143.85E–.09 16 3.6b,3.7
JMA III 20 09 07 54.1–.70 39.89N 143.49E 7 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.9km s-min=19.9km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.3km az=178.5.
JMA Error ellipse: s-maj=3.3km s-min=5.1km az=-1.0.
ISC III 20 09 15 26.2–1.1 38.37N–.09 143.04E–.07 23 3.6b 19 2-68
JMA III 20 09 15 15.9–.30 38.26N 143.62E 16 3.9 **¶17197429**
IDC III 20 09 15 16.4–.91 37.30N 143.18E 0 3.8,3.7
ISCJB III 20 09 15 22.5–.99 38.36N–.07 143.31E–.07 23 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 09 28 03.4–.72 37.24N–.06 142.27E–.06 9 3.6b 26 1-77
IDC III 20 09 28 01.6–.83 37.05N 142.44E 0 3.7,3.6 **¶17197432**
ISCJB III 20 09 28 02.1–.62 37.26N–.06 142.36E–.05 9 3.6b,3.6
JMA III 20 09 28 04.7–.30 37.44N 142.27E 18 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=16.0km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.0km az=169.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 20 09 59 55.4–2.5 36.45N 144.57E 0 3.6,3.6
¶17197434
IDC Error ellipse: s-maj=75.9km s-min=22.9km az=64.0.
ISC III 20 10 08 13.0–1.2 37.96N–.05 142.27E–.08 14 3.5b 22 1-62
IDC III 20 10 08 09.9–1.9 37.99N 142.67E 0 3.6,3.6 **¶17197435**
ISCJB III 20 10 08 11.6–.82 37.95N–.05 142.36E–.07 14 3.5b,3.6
JMA III 20 10 08 14.4–.30 37.97N 142.25E 30 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=54.5km s-min=20.4km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.4km az=167.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 20 10 17 08.2–1.2 39.7N–.10 144.8E–.20 23 3.5b 8 6-64
IDC III 20 10 17 04.9–1.2 39.78N 144.81E 0 3.7,3.6 **¶17197436**
ISCJB III 20 10 17 06.2–1.0 39.7N–.10 144.7E–.20 23 3.6s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 10 43 37.4–1.4 36.1N–.20 143.2E–.20 35 3.6b 8 4-70
IDC III 20 10 43 32.0–1.2 36.11N 143.29E 0 3.9,3.8 **¶17197438**
ISCJB III 20 10 43 34.8–1.1 36.1N–.10 143.3E–.20 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 10 58 30.5–.41 37.37N–.05 143.89E–.05 35 4.7b,4.4s 290 2-153
NIED III 20 10 58 00 37.20N 143.80E 5 4.3W,4.4s **¶16339584**
IDC III 20 10 58 24.6–.53 37.18N 143.99E 0 4.5,4.4
NEIC III 20 10 58 26.8–.18 37.23N 143.91E 10 4.9b,4.4
JMA III 20 10 58 27.9–.50 37.24N 143.79E 55 4.8,4.4
BJI III 20 10 58 28.6 37.35N 143.87E 35 5.0b,4.5b
ISCJB III 20 10 58 29.2–.23 37.37N–.03 143.77E–.03 33 4.6b,4.3s
MOS III 20 10 58 30.1–.96 37.56N 143.74E 33 4.8b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S30.00000°,δ40.00000°,λ-94.00000°. NP2:ϕ_S216.00000°,δ50.00000°,λ-86.00000°. $M_0$3.27000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=12.3km az=129.0.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=147.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.1km az=160.9.
MOS Error ellipse: s-maj=7.9km s-min=4.9km az=103.9.
ISC III 20 11 21 52.8–1.2 39.84N–.06 143.02E–.08 12 3.3b 21 1-60
JMA III 20 11 21 50.0–.30 39.70N 143.20E 4 3.6 **¶17197445**
IDC III 20 11 21 51.7–1.7 39.99N 142.84E 0 3.5,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=25.1km az=88.0.
ISC III 20 11 26 11.2–.54 36.46N–.06 143.33E–.08 35 4.2b 51 4-147
IDC III 20 11 26 06.4–.70 36.51N 143.39E 0 4.2,4.1s **¶16447659**
NEIC III 20 11 26 07.9–.25 36.54N 143.37E 10 4.5b,4.1s
ISCJB III 20 11 26 09.3–.36 36.47N–.04 143.27E–.06 33 4.2b,4.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 20 11 28 12.8–3.9 36.82N 143.82E 0 3.8,3.7
¶17197446
IDC Error ellipse: s-maj=113.5km s-min=26.4km az=58.0.
ISC III 20 11 29 37.2–1.4 37.88N–.06 142.66E–.10 14 3.5b 20 1-62
IDC III 20 11 29 34.7–2.2 37.91N 142.81E 0 3.8,3.8 **¶17197447**
ISCJB III 20 11 29 36.9–.95 37.85N–.05 142.64E–.08 14 3.7s,3.5b
JMA III 20 11 29 40.5–.30 37.90N 142.51E 36 3.9,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=55.4km s-min=28.8km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.4km az=1.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 20 11 39 31.1–2.5 39.35N–.07 143.09E–.09 6–14 3.6b 25 1-63
JMA III 20 11 39 32.5–.40 39.33N 143.10E 8–5 4.1 **¶17197449**
IDC III 20 11 39 36.7–4.1 39.21N 143.13E 54–39 3.6,3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=26.3km s-min=17.6km az=101.0.
ISC III 20 11 40 20.9–1.2 39.0N–.20 144.8E–.20 35 3.7b 9 6-74
IDC III 20 11 40 15.7–1.1 39.06N 144.77E 0 3.8,3.6 **¶17197452**
ISCJB III 20 11 40 18.6–.96 39.0N–.10 144.8E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 20 11 46 20.6–6.4 35.94N 142.33E 0 3.9b,3.7
¶17197454
IDC Error ellipse: s-maj=117.1km s-min=64.9km az=160.0.
ISC III 20 11 47 51.6–.57 36.77N–.06 143.17E–.07 25 4.5b 55 2-151
NIED III 20 11 47 00 36.80N 143.00E 8 4.2W **¶16447660**
IDC III 20 11 47 47.5–1.5 36.73N 143.29E 0 4.1,4.1
ISCJB III 20 11 47 50.0–.45 36.82N–.04 143.15E–.05 25 4.4b,4.1
NEIC III 20 11 47 50.5–3.2 36.76N 143.31E 18–19 4.8b,4.1
JMA III 20 11 47 51.6–.20 36.76N 143.00E 54 4.0,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S2.00000°,δ26.00000°,λ-120.00000°. NP2:ϕ_S214.00000°,δ68.00000°,λ-77.00000°. $M_0$2.32000×10^{15}

IDC Error ellipse: s-maj=34.1km s-min=18.5km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.5km az=135.7.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.8km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 20 11 50 52.8–.60 37.68N 142.72E 0 4.0 ¶602676698
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 20 11 53 03.0–.61 36.9N–.10 144.08E–.08 35 4.3b 65 5-153
IDC III 20 11 52 57.6–.71 36.86N 144.11E 0 4.2,4.0 **¶16447661**
ISCJB III 20 11 53 00.9–.37 36.83N–.06 144.04E–.05 33 4.3b,4.0
NEIC III 20 11 53 02.7–2.5 36.85N 144.06E 34–18 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=17.3km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.6km az=163.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.6km az=104.0.
ISC III 20 12 20 32.8–1.1 39.7N–.10 143.5E–.10 6 3.6b 14 2-70
ISCJB III 20 12 20 30.5–.84 39.7N–.10 143.63E–.09 6 3.5b **¶600558994**
IDC III 20 12 20 31.7–1.1 39.67N 143.45E 0 3.8,3.6
JMA III 20 12 20 32.2–.30 39.89N 143.57E 12 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=9.7km az=162.8.
IDC Error ellipse: s-maj=30.8km s-min=21.1km az=91.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 20 12 53 40.1–.46 36.24N–.05 142.50E–.06 15 4.2b 74 1-154
ISCJB III 20 12 53 38.6–.32 36.26N–.04 142.54E–.04 15 4.3b **¶600559034**
IDC III 20 12 53 38.2–.70 36.27N 142.55E 0 4.0,3.9
JMA III 20 12 53 39.7–.20 36.36N 142.52E 27 3.7,3.9
NEIC III 20 12 53 39.6–2.3 36.22N 142.57E 11–14 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=161.0.
IDC Error ellipse: s-maj=18.5km s-min=16.6km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=94.0.
ISC III 20 13 02 02.5–1.0 37.6N–.20 143.6E–.20 35 3.5b 7 4-88
IDC III 20 13 01 57.6–.94 37.60N 143.78E 0 3.8,3.5 **¶17197462**
ISCJB III 20 13 02 00.5–.83 37.6N–.10 143.6E–.20 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 13 19 02.4–1.1 36.51N–.10 143.2E–.10 29 3.5b 11 4-60
IDC III 20 13 18 57.9–1.0 36.45N 143.30E 0 3.7,3.6 **¶17197466**
ISCJB III 20 13 19 00.2–.89 36.45N–.08 143.2E–.10 29 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 13 25 35.4–.87 37.8N–.10 143.88E–.08 35 3.7b 23 2-76
IDC III 20 13 25 29.9–.82 37.65N 144.08E 0 3.9,3.8 **¶17197467**
ISCJB III 20 13 25 33.3–.66 37.72N–.08 143.89E–.06 33 3.7b,3.8
JMA III 20 13 25 33.5–.20 37.83N 143.84E 29 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.7km s-min=18.9km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.8km az=17.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 20 13 45 00.8–1.5 37.80N–.06 144.09E–.09 35 3.5b 30 3-58
JMA III 20 13 44 59.9–.20 37.79N 143.99E 42 4.1 **¶17197470**
ISCJB III 20 13 45 00.1–.81 37.86N–.04 143.98E–.06 33 3.5b
IDC III 20 13 45 03.1–1.3 37.01N 143.80E 0 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.3km az=27.6.
IDC Error ellipse: s-maj=28.1km s-min=22.1km az=122.0.
ISC III 20 13 48 11.5–1.1 37.34N–.06 142.3E–.10 21 3.8b 20 1-81
IDC III 20 13 48 07.9–1.7 37.26N 142.41E 0 3.7,3.6 **¶17197471**
JMA III 20 13 48 08.8–.30 37.43N 142.24E 1–3 4.0,3.6
ISCJB III 20 13 48 09.3–.87 37.26N–.05 142.35E–.09 21 3.8b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 13 55 33.4–1.1 36.58N–.08 142.1E–.10 19 4.0s,4.0b 22 3-79
IDC III 20 13 55 30.6–1.8 36.72N 142.24E 0 4.0,3.9b **¶16437922**
ISCJB III 20 13 55 30.9–.74 36.61N–.06 142.21E–.09 19 4.1s,3.9b
NEIC III 20 13 55 35.2–.89 36.65N 142.17E 35 4.2b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=46.7km s-min=18.1km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=8.0km az=151.2.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=10.3km az=73.0.
IDC III 20 14 10 33.5–2.7 37.36N 143.78E 0 3.4,3.3b ¶17197474
IDC Error ellipse: s-maj=71.7km s-min=31.2km az=60.0.
ISC III 20 14 12 21.6–2.4 36.63N–.06 142.30E–.08 0–14 3.4b 20 1-57
IDC III 20 14 12 22.0–1.4 36.60N 142.38E 0 4.2s,4.2 **¶17197475**
ISCJB III 20 14 12 23.4–2.0 36.60N–.06 142.34E–.09 20–14 4.2s,3.3b
JMA III 20 14 12 23.8–.40 36.68N 142.27E 12–4 3.3,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=31.4km s-min=25.5km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.8km az=144.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 20 14 24 34.6–1.4 37.6N–.20 143.8E–.20 35 3.5b 6 5-58
IDC III 20 14 24 29.4–1.4 37.64N 143.94E 0 3.6,3.5b **¶17197477**
ISCJB III 20 14 24 32.2–1.3 37.6N–.20 143.9E–.20 33 3.4b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 14 26 02.3–.85 37.55N–.05 144.94E–.09 35 3.8b 46 3-76
IDC III 20 14 25 56.8–1.1 37.45N 145.20E 0 4.5L,4.0 **¶16437924**
NEIC III 20 14 25 58.8–3.7 37.45N 145.21E 14–22 4.5b,4.0
ISCJB III 20 14 26 00.8–.60 37.56N–.04 144.88E–.07 33 3.8b,4.0
JMA III 20 14 26 02.8–.40 37.54N 144.68E 49 4.5,4.0
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=17.4km az=94.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=7.4km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.6km az=17.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC III 20 14 39 12.0–1.9 38.45N 145.04E 0 3.8,3.6 ¶17197480
IDC Error ellipse: s-maj=53.3km s-min=26.5km az=70.0.
IDC III 20 14 43 50.4–2.7 37.86N 143.87E 0 3.5,3.4b ¶17197481
IDC Error ellipse: s-maj=73.3km s-min=26.5km az=60.0.
ISC III 20 15 13 53.3–.65 36.38N–.04 143.39E–.04 23–4 5.0b,4.3s 581 2-150
NIED III 20 15 13 00 36.50N 143.20E 5 4.8W,4.3s **¶16339594**
IDC III 20 15 13 49.9–.41 36.36N 143.46E 0 5.0,4.9
ISCJB III 20 15 13 50.0–.95 36.41N–.03 143.34E–.02 9–5 5.0b,4.3s
BJI III 20 15 13 51.6 36.54N 143.51E 28 5.1b,4.9b
GCMT III 20 15 13 52.6–.50 36.35N 143.43E 12–1 4.9W,4.9b
MOS III 20 15 13 52.7–.75 36.40N 143.40E 33 5.3b,4.9b
NEIC III 20 15 13 52.6–1.6 36.34N 143.37E 18–9 5.1b,4.9b
JMA III 20 15 13 54.8–.20 36.48N 143.16E 74 4.9,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ31.00000°,λ-82.00000°. NP2:ϕ_s210.00000°,δ60.00000°,λ-95.00000°. $M_0$1.81000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=10.2km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.6km az=163.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c19; s65,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.69±.24 $M_{\theta\theta}$1.54±.16; $M_{\phi\phi}$1.15±.14; $M_{r\theta}$-1.07±.48; $M_{\theta\phi}$0.91±.08; $M_{\phi r}$1.08±.50; Best double couple: NP1:ϕ_s73.00000°,δ51.00000°,λ-61.00000°. NP2:ϕ_s212.00000°,δ47.00000°,λ-121.00000°. Principal axes: T 2.2810,Plg2.0000°,Azm143.0000°; N 1.0280,Plg22.0000°,Azm234.0000° ; P -3.3090,Plg68.0000°,Azm47.0000° $M_0$2.79500×10^{16}
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=125.3.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 15 21 05.3–.88 34.98N–.05 141.29E–.08 27 3.7b 24 0-66
IDC III 20 15 21 01.7–1.6 35.04N 141.41E 0 4.2,4.2s **¶16437927**
ISCJB III 20 15 21 02.9–.71 34.96N–.04 141.50E–.08 27 4.2s,3.8b
JMA III 20 15 21 04.6–.30 35.00N 141.35E 33 3.3,3.8b
NEIC III 20 15 21 05.0–4.0 34.97N 141.41E 27–31 4.4b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=35.7km s-min=22.9km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.1km az=1.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=11.5km az=61.0.
ISC III 20 15 23 24.9–.83 36.54N–.06 143.27E–.07 35 3.9b 47 2-146
IDC III 20 15 23 19.0–2.1 36.36N 143.44E 0 3.9,3.8 **¶602676544**
JMA III 20 15 23 23.2–.40 36.52N 143.19E 41 4.1,3.8
NEIC III 20 15 23 23.7–1.4 36.21N 143.40E 38–13 4.6b,3.8
ISCJB III 20 15 23 23.0–.59 36.52N–.04 143.22E–.05 33 3.9b,3.8
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
ISC III 20 15 30 11.0–.51 36.46N–.04 143.36E–.06 35 4.4b 64 2-146
IDC III 20 15 30 05.8–.57 36.32N 143.51E 0 4.5,4.4 **¶16437929**
NEIC III 20 15 30 06.7–3.4 36.35N 143.48E 6–21 4.5b,4.4
ISCJB III 20 15 30 09.0–.36 36.40N–.03 143.29E–.03 33 4.4b,4.4
JMA III 20 15 30 10.2–.30 36.55N 143.17E 30 4.6,4.4
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=13.5km az=119.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.8km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.9km az=163.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 20 15 36 50.9–.58 37.27N–.07 142.53E–.07 21 4.4b 67 1-146
NIED III 20 15 36 00 37.40N 142.30E 5 4.4W **¶16341350**
IDC III 20 15 36 47.8–.64 37.32N 142.49E 0 4.2,4.1
ISCJB III 20 15 36 48.6–.38 37.24N–.04 142.58E–.05 21 4.2b,4.0s
JMA III 20 15 36 48.2–.40 37.40N 142.59E 25 4.5,4.0s
NEIC III 20 15 36 52.8–.88 37.29N 142.51E 36–7 4.5b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ35.00000°,λ-88.00000°. NP2:ϕ_s189.00000°,δ55.00000°,λ-91.00000°. $M_0$4.66000×10^{15}
IDC Error ellipse: s-maj=17.0km s-min=14.2km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.0km az=136.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.1km az=102.0.
ISC III 20 15 40 08.5–.90 37.00N–.07 142.43E–.07 9 3.8b 37 1-75
IDC III 20 15 40 06.8–1.0 36.92N 142.49E 0 3.9,3.8 **¶602676380**
ISCJB III 20 15 40 06.5–.57 36.96N–.04 142.51E–.05 9 3.9b,3.8
JMA III 20 15 40 08.5–.30 37.01N 142.37E 12–4 4.1,3.8
NEIC III 20 15 40 11.9–.58 36.98N 142.46E 35 4.3b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=20.1km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.5km az=15.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.3km az=119.0.
ISC III 20 15 49 50.5–.70 37.29N–.06 143.96E–.07 35 4.1b 63 3-145
IDC III 20 15 49 44.6–.76 37.11N 144.01E 0 4.1,4.0 **¶16341351**
NEIC III 20 15 49 46.5–.59 37.21N 144.07E 10 4.4b,4.0
ISCJB III 20 15 49 50.0–.51 37.40N–.04 143.79E–.05 33 4.2s,4.1b
JMA III 20 15 49 50.8–.80 37.27N 143.66E 45 4.0,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=14.7km az=100.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.3km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.4km az=141.2.
JMA Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.
ISC III 20 15 51 22.2–.54 36.42N–.04 143.39E–.04 26–3 4.9b,4.2s 469 2-153
NIED III 20 15 51 00 36.50N 143.20E 5 4.8W,4.2s **¶16339597**
BJI III 20 15 51 18.4 36.40N 143.64E 26 5.0b,4.6b
IDC III 20 15 51 18.0–.43 36.35N 143.50E 0 4.8,4.7
ISCJB III 20 15 51 19.9–.89 36.46N–.03 143.31E–.02 19–6 4.9b,4.1s
MOS III 20 15 51 22.0–.94 36.50N 143.38E 37 5.1b,4.1s
JMA III 20 15 51 22.5–.20 36.48N 143.23E 63 4.8,4.1s
NEIC III 20 15 51 22.9–1.2 36.38N 143.37E 31–8 4.9b,4.1s
GCMT III 20 15 51 23.0–.50 36.36N 143.45E 21–1 5.0W,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s47.00000°,δ24.00000°,λ-81.00000°. NP2:ϕ_s218.00000°,δ66.00000°,λ-94.00000°. $M_0$1.81000×10^{16}
IDC Error ellipse: s-maj=12.3km s-min=10.8km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=166.9.
MOS Error ellipse: s-maj=7.3km s-min=4.8km az=112.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=151.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c19; s70,c103; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.89±.34 $M_{\theta\theta}$1.92±.21; $M_{\phi\phi}$1.97±.20; $M_{r\theta}$-1.11±.36; $M_{\theta\phi}$1.50±.10; $M_{\phi r}$-0.01±.35; Best double couple: NP1:ϕ_s55.00000°,δ52.00000° ,λ-78.00000°. NP2:ϕ_s216.00000°,δ40.00000°,λ-105.00000°. Principal axes: T 3.5310,Plg6.0000°,Azm136.0000°; N 0.5750,Plg9.0000°,Azm227.0000° ; P -4.1070,Plg79.0000°,Azm13.0000° $M_0$3.81900×10^{16}
ISC III 20 15 54 15.0–.78 36.14N–.04 142.09E–.04 16–4 4.8b 247 1-152
NIED III 20 15 54 00 36.30N 142.10E 8 4.4W **¶16339772**
ISCJB III 20 15 54 12.7–1.2 36.15N–.03 141.99E–.03 8–7 4.7b
IDC III 20 15 54 13.0–.46 36.22N 142.02E 0 4.6,4.6
JMA III 20 15 54 14.4–.40 36.28N 142.06E 24 4.6,4.6
NEIC III 20 15 54 18.3–.12 36.23N 141.88E 35 4.8b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ48.00000°,λ60.00000°. NP2:ϕ_s44.00000°,δ50.00000°,λ119.00000°. $M_0$5.12000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=166.3.
IDC Error ellipse: s-maj=13.5km s-min=10.7km az=109.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.6km az=151.0.
IDC III 20 15 55 01.6–16 37.20N 142.60E 0 4.5,4.5 ¶17197488
IDC Error ellipse: s-maj=401.0km s-min=75.7km az=172.0.
IDC III 20 16 00 03.7–1.3 36.35N 143.49E 0 3.8,3.6 ¶17197490
IDC Error ellipse: s-maj=52.6km s-min=28.5km az=95.0.
ISC III 20 16 05 09.4–.51 39.06N–.04 143.29E–.05 23–3 4.8b,4.0s 211 2-88
NIED III 20 16 05 00 39.10N 143.30E 5 4.7W,4.0s **¶16339773**
ISCJB III 20 16 05 06.8–1.1 39.04N–.03 143.27E–.03 16–7 4.7b,3.9s
BJI III 20 16 05 07.2 39.13N 143.17E 17 5.0b,4.6b
JMA III 20 16 05 07.4–.30 39.06N 143.32E 22 4.8,4.6b
IDC III 20 16 05 09.4–.54 39.02N 143.28E 23–2 4.4,4.4
NEIC III 20 16 05 09.4–1.3 39.07N 143.18E 22–9 4.9b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ3.00000°,λ-21.00000°. NP2:ϕ_s271.00000°,δ89.00000°,λ-93.00000°. $M_0$1.45000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.7km az=137.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=15.2km s-min=11.0km az=98.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.2km az=131.0.
ISC III 20 16 14 35.8–.79 36.42N–.05 143.31E–.07 35 3.8b 38 2-89
NIED III 20 16 14 00 36.40N 143.20E 5 3.8W **¶16462027**
IDC III 20 16 14 30.6–.77 36.33N 143.49E 0 4.0,3.7
ISCJB III 20 16 14 33.8–.59 36.45N–.04 143.26E–.04 33 3.7b,3.7
JMA III 20 16 14 33.8–.50 36.44N 143.20E 30 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ22.00000°,λ-108.00000°. NP2:ϕ_s226.00000°,δ69.00000°,λ-83.00000°. $M_0$6.01000×10^{14}
IDC Error ellipse: s-maj=22.0km s-min=18.8km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=158.7.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 20 16 22 00.3–2.4 37.72N–.05 142.00E–.09 3–14 18 1-62
IDC III 20 16 22 01.4–7.8 37.33N 142.22E 0 3.9,3.8b **¶17197493**
JMA III 20 16 22 03.5–.20 37.67N 141.92E 24–4 3.6,3.8b
ISC Event type ke.

IDC Error ellipse: s-maj=161.3km s-min=48.2km az=20.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 20 16 37 54.2–9.4 36.33N 143.93E 0 3.6,3.5L ¶17197495
IDC Error ellipse: s-maj=208.0km s-min=45.1km az=34.0.
ISC III 20 16 39 21.6–1.9 38.74N–.07 143.9E–.10 14 3.5b 19 2-63
IDC III 20 16 39 21.0–2.3 38.25N 144.31E 0 3.8L,3.6 **¶17197496**
ISCJB III 20 16 39 22.1–1.4 38.70N–.06 143.77E–.10 14 3.5b,3.6
JMA III 20 16 39 24.1–.30 38.79N 143.62E 13 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=53.5km s-min=31.9km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=8.3km az=152.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 20 16 44 40.8–.61 37.02N–.05 143.67E–.07 35 4.0b 70 2-89
IDC III 20 16 44 35.2–.69 36.91N 143.85E 0 4.1,4.0 **¶602676262**
JMA III 20 16 44 39.3–.20 37.10N 143.57E 38 4.1,4.0
ISCJB III 20 16 44 39.3–.44 37.05N–.04 143.58E–.04 33 4.0b,4.0
NEIC III 20 16 44 40.7–.54 37.01N 143.72E 35 4.5b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=18.2km s-min=14.0km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=147.2.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.2km az=135.0.
ISC III 20 16 46 06.3–.84 36.8N–.10 143.8E–.10 35 3.9b 18 4-89
IDC III 20 16 46 01.1–.87 36.85N 143.81E 0 4.0,3.8 **¶16440427**
ISCJB III 20 16 46 04.0–.63 36.77N–.09 143.8E–.10 33 3.8b,3.8
NEIC III 20 16 46 06.4–2.3 36.81N 143.75E 36–19 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=27.3km s-min=19.3km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=11.9km az=137.9.
NEIC Event type se. Error ellipse: s-maj=20.4km s-min=10.9km az=98.0.
IDC III 20 16 47 17.5–13 36.04N 143.18E 0 3.7,3.5 ¶600559256
IDC Error ellipse: s-maj=462.1km s-min=31.3km az=63.0.
ISC III 20 16 48 30.6–.88 36.61N–.05 142.08E–.07 24–5 3.5b 24 1-60
NIED III 20 16 48 00 36.70N 142.20E 11 3.7W **¶17197498**
JMA III 20 16 48 28.9–.30 36.70N 142.21E 37 3.8
ISCJB III 20 16 48 29.4–2.3 36.59N–.05 142.14E–.07 31–19 3.4b
IDC III 20 16 48 32.0–.91 36.51N 142.04E 30–7 3.8L,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ55.00000°,λ-38.00000°. NP2:ϕ_s347.00000°,δ60.00000°,λ-138.00000°. $M_0$3.62000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.6km az=45.0.
IDC Error ellipse: s-maj=26.8km s-min=17.2km az=102.0.
ISC III 20 16 52 38.7–.90 39.50N–.06 143.41E–.10 11 3.7b 22 2-67
NIED III 20 16 52 00 39.60N 143.30E 11 3.9W **¶17197500**
ISCJB III 20 16 52 36.9–.71 39.49N–.06 143.50E–.09 11 3.5b
IDC III 20 16 52 37.1–.97 39.51N 143.44E 0 3.8,3.7
JMA III 20 16 52 39.8–.30 39.62N 143.35E 27 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ16.00000°,λ91.00000°. NP2:ϕ_s203.00000°,δ74.00000°,λ90.00000°. $M_0$7.06000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=9.0km az=29.1.
IDC Error ellipse: s-maj=25.2km s-min=16.2km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC III 20 17 01 17.1–2.7 37.88N 143.14E 0 3.6,3.5b ¶17197503
IDC Error ellipse: s-maj=68.1km s-min=30.1km az=65.0.
IDC III 20 17 04 43.8–2.7 37.70N 144.74E 0 3.5,3.3 ¶17197504
IDC Error ellipse: s-maj=74.3km s-min=25.9km az=60.0.
ISC III 20 17 07 52.1–1.2 38.6N–.10 144.8E–.10 29 3.4b 9 6-63
IDC III 20 17 07 47.7–1.1 38.54N 144.96E 0 3.7,3.6 **¶17197505**
ISCJB III 20 17 07 50.0–.94 38.5N–.10 144.9E–.20 29 3.5b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 17 08 56.7–.45 37.27N–.03 143.90E–.03 29–2 5.3b,5.0s 1204 2-156
NIED III 20 17 08 00 37.20N 143.70E 5 5.2W,5.0s **¶16339598**
IDC III 20 17 08 52.1–.39 37.14N 143.96E 0 5.1,5.0
NEIC III 20 17 08 56.1–1.2 37.14N 143.85E 23–8 5.3b,5.0
GCMT III 20 17 08 56.1–.10 37.21N 143.94E 12 5.2W,5.0
ISCJB III 20 17 08 56.2–.09 37.21N–.02 143.82E–.02 35 5.2b,5.0s
JMA III 20 17 08 56.2–.30 37.20N 143.72E 62 5.1,5.0s
MOS III 20 17 08 57.1–.96 37.51N 143.77E 33 5.6b,4.8s
BJI III 20 17 08 57.7 37.38N 143.54E 35 5.4b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ32.00000°,λ-89.00000°. NP2:ϕ_s213.00000°,δ58.00000°,λ-91.00000°. $M_0$7.63000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=11.0km az=116.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=137.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c88; s111,c212; Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.28±.01; $M_{\phi\phi}$0.53±.01; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$0.16±.04; Best double couple: NP1:ϕ_s204.00000°,δ49.00000°,λ-104.00000°. NP2:ϕ_s44.00000°,δ43.00000°,λ-75.00000°. Principal axes: T 0.7580,Plg3.0000°,Azm303.0000°; N 0.0840,Plg10.0000°,Azm213.0000°; P -0.8420,Plg79.0000°,Azm51.0000° $M_0$0.80000×10^{17}
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=1.6km az=166.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=111.6.
ISC III 20 17 27 46.5–.98 36.7N–.10 142.7E–.10 15 3.7b 9 4-77
IDC III 20 17 27 44.4–.99 36.73N 142.67E 0 3.8,3.6 **¶17197507**
ISCJB III 20 17 27 44.9–.81 36.7N–.10 142.69E–.09 15 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 17 33 16.9–.38 37.77N–.05 143.40E–.05 31–2 4.8b 346 2-145
NIED III 20 17 33 00 37.80N 143.30E 5 4.5W **¶16339600**
IDC III 20 17 33 12.0–.57 37.74N 143.54E 0 4.5,4.4
ISCJB III 20 17 33 13.7–.00 37.78N–.03 143.39E–.03 16–7 4.7b,3.8s
JMA III 20 17 33 15.6–.40 37.76N 143.34E 44 4.8,3.8s
NEIC III 20 17 33 17.9–.21 37.84N 143.32E 35 4.9b,3.8s
MOS III 20 17 33 17.3–.92 38.05N 143.41E 33 5.1b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ47.00000°,λ-65.00000°. NP2:ϕ_s356.00000°,δ49.00000°,λ-114.00000°. $M_0$6.79000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=12.0km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.8km az=157.9.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=3.8km az=156.0.
MOS Error ellipse: s-maj=8.4km s-min=5.6km az=112.1.
ISC III 20 17 34 58.3–.67 37.82N–.07 143.40E–.07 19 4.3b 45 2-88
IDC III 20 17 34 55.0–.77 37.74N 143.56E 0 4.4,4.2 **¶17197508**
ISCJB III 20 17 34 56.4–.46 37.81N–.04 143.39E–.05 19 4.2b,4.0s
JMA III 20 17 34 58.6–.30 37.82N 143.38E 39 4.5,4.0s
NEIC III 20 17 35 00.4–.61 37.84N 143.41E 35 4.6b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=19.7km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=150.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.3km az=117.0.
ISC III 20 17 37 53.6–.59 37.74N–.07 143.52E–.08 35 4.1b 48 2-145
IDC III 20 17 37 48.5–.69 37.78N 143.53E 0 4.2,4.1 **¶16479777**
NEIC III 20 17 37 51.9–2.9 37.79N 143.43E 22–20 4.9b,4.1
ISCJB III 20 17 37 51.4–.49 37.75N–.06 143.49E–.06 33 4.2b,4.1
NIED III 20 17 38 00 39.50N 142.60E 11 4.1W,4.1
JMA III 20 17 38 04.8–.20 39.50N 142.62E 15–2 3.8,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=15.5km az=124.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.2km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.7km az=142.3.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ63.00000°,λ-6.00000°. NP2:ϕ_s116.00000°,δ85.00000°,λ-152.00000°. $M_0$1.64000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 20 17 40 58.4–1.2 36.5N–.10 143.3E–.10 29 3.5b 9 4-60
IDC III 20 17 40 54.3–1.2 36.44N 143.50E 0 3.6,3.5 **¶17197510**
ISCJB III 20 17 40 56.6–1.0 36.44N–.09 143.25E–.10 29 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC III 20 18 11 21.6–2.7 36.39N 143.61E 0 3.8,3.6 ¶17197513
IDC Error ellipse: s-maj=77.9km s-min=24.7km az=60.0.
ISC III 20 18 12 55.6–1.1 37.2N–.20 144.0E–.10 35 3.7b 10 5-61
IDC III 20 18 12 50.1–1.0 37.13N 144.09E 0 3.9,3.8b **¶17197519**
ISCJB III 20 18 12 53.2–.88 37.1N–.10 143.9E–.10 33 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
IDC III 20 18 42 29.2–2.4 35.97N 143.12E 0 3.5,3.4 ¶17197529
IDC Error ellipse: s-maj=58.3km s-min=28.4km az=62.0.
ISC III 20 18 46 26.0–.70 36.18N–.05 142.00E–.07 23 3.9b 43 1-147
NIED III 20 18 46 00 36.20N 141.90E 14 3.8W **¶16479800**
IDC III 20 18 46 23.3–1.1 36.17N 141.96E 0 4.0,4.0b
ISCJB III 20 18 46 23.4–.56 36.17N–.04 142.18E–.06 23 3.9b,3.3s
JMA III 20 18 46 26.8–.20 36.22N 141.93E 55 4.0,3.3s
NEIC III 20 18 46 27.8–.75 36.25N 142.01E 35 4.2b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ18.00000°,λ48.00000°. NP2:ϕ_s53.00000°,δ77.00000°,λ102.00000°. $M_0$6.15000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=19.1km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=27.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=10.1km az=116.0.
ISC III 20 18 57 20.2–1.4 37.98N–.06 144.22E–.09 35 21 3-62
ISCJB III 20 18 57 18.9–.95 38.04N–.05 144.20E–.07 33 3.4b **¶17197534**
JMA III 20 18 57 21.7–.30 38.04N 144.00E 40 3.6
IDC III 20 18 57 25.2–9.7 36.67N 143.75E 0 3.5,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.0km az=164.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=211.1km s-min=47.4km az=30.0.
ISC III 20 19 00 26.7–1.1 35.82N–.05 143.42E–.08 35 3.5b 42 2-60
IDC III 20 19 00 22.2–1.2 35.59N 143.53E 0 3.6,3.6 **¶17197535**
ISCJB III 20 19 00 25.3–.67 35.79N–.03 143.33E–.05 33 3.4b,3.3s
JMA III 20 19 00 27.3–.30 35.81N 143.20E 88 3.4,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.7km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=21.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 20 19 04 11.5–1.2 36.43N–.05 143.38E–.09 35 3.6b 30 2-60
NIED III 20 19 04 00 36.40N 143.30E 5 3.6W **¶17197536**
IDC III 20 19 04 06.8–2.1 36.37N 143.53E 0 3.6,3.6
JMA III 20 19 04 10.4–.60 36.39N 143.30E 43 3.8,3.6
ISCJB III 20 19 04 10.5–.82 36.47N–.04 143.27E–.06 33 3.5b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ32.00000°,λ-87.00000°. NP2:ϕ_s216.00000°,δ58.00000°,λ-92.00000°. $M_0$2.50000×10^{14}
ISCJB Event type ke.
ISC III 20 19 29 23.4–2.0 38.5N–.20 144.8E–.20 29 3.4b 8 6-63
IDC III 20 19 29 18.3–2.5 38.53N 145.02E 0 3.5,3.4 **¶17197538**
ISC Event type ke.
IDC Error ellipse: s-maj=67.0km s-min=24.2km az=62.0.
ISC III 20 19 32 57.1–1.5 34.95N–.05 141.4E–.10 27 3.6b 15 0-59
IDC III 20 19 32 53.2–2.4 35.05N 141.65E 0 3.5,3.5b **¶17197539**
JMA III 20 19 32 55.9–.50 34.95N 141.48E 53–5 2.7,3.5b
ISCJB III 20 19 32 56.2–1.2 34.99N–.05 141.4E–.10 27 3.5b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 19 48 01.6–1.4 36.58N–.05 142.34E–.10 15 3.5b 21 1-47
IDC III 20 19 47 57.9–4.1 36.55N 142.74E 0 3.7,3.7 **¶17197541**
JMA III 20 19 48 02.3–.40 36.69N 142.25E 12 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=73.4km s-min=33.5km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC III 20 19 56 56.5–1.1 37.61N 143.35E 0 3.9,3.7 ¶17197542
IDC Error ellipse: s-maj=29.3km s-min=21.8km az=100.0.
ISC III 20 20 14 12.1–.65 39.97N–.08 144.38E–.09 28–2 4.1b 45 2-87
NEIC III 20 20 14 12.9–.59 39.95N 144.35E 35 4.4b **¶16479818**
IDC III 20 20 14 13.6–.69 39.89N 144.40E 40–4 4.0,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.3km az=134.0.
IDC Error ellipse: s-maj=14.6km s-min=13.3km az=170.0.
ISC III 20 20 47 29.9–.68 36.71N–.04 142.02E–.04 30–4 4.8b,4.1s 410 2-146
NIED III 20 20 47 00 36.70N 142.20E 11 4.5W,4.1s **¶16339785**
JMA III 20 20 47 26.2–.30 36.71N 142.25E 31 4.6,4.1s
ISCJB III 20 20 47 27.1–1.0 36.68N–.03 141.97E–.03 19–7 4.7b,4.0s
IDC III 20 20 47 30.1–4.2 36.65N 142.04E 32–30 4.6,4.5
MOS III 20 20 47 31.3–.90 37.09N 141.92E 36 5.0b,4.5
NEIC III 20 20 47 31.1–.15 36.74N 141.94E 35 4.8b,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ19.00000°,λ60.00000°. NP2:ϕ_s73.00000°,δ74.00000°,λ100.00000°. $M_0$7.21000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.8km az=152.7.
IDC Error ellipse: s-maj=13.9km s-min=12.3km az=154.0.
MOS Error ellipse: s-maj=7.9km s-min=4.6km az=114.8.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=160.0.
ISC III 20 20 55 52.6–2.6 36.96N–.06 142.36E–.10 9–14 3.4b 20 1-57
IDC III 20 20 55 51.0–2.6 37.00N 142.44E 0 3.6,3.6s **¶17197549**
JMA III 20 20 55 52.2–.40 37.07N 142.37E 1–5 3.8,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=67.2km s-min=31.5km az=63.0.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC III 20 21 40 38.5–1.5 37.05N 142.27E 0 3.8,3.5 ¶17197558
IDC Error ellipse: s-maj=37.1km s-min=30.6km az=114.0.
ISC III 20 21 45 04.9–1.3 37.6N–.20 144.3E–.20 35 3.4b 5 5-88
IDC III 20 21 45 00.4–.97 37.54N 144.10E 0 3.7,3.4 **¶17197559**
ISCJB III 20 21 45 02.5–1.0 37.5N–.20 144.3E–.30 33 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 22 11 40.7–1.2 37.64N–.07 144.34E–.09 35 3.5b 19 3-62
IDC III 20 22 11 35.2–1.3 37.56N 144.65E 0 3.8,3.5 **¶17197565**
ISCJB III 20 22 11 38.5–.93 37.64N–.05 144.34E–.07 33 3.6b,3.5
JMA III 20 22 11 41.5–.40 37.56N 144.16E 57 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=47.6km s-min=27.9km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.1km az=143.7.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 20 22 13 55.1–.93 35.9N–.10 143.2E–.10 35 3.4b 12 4-146
IDC III 20 22 13 49.9–.89 35.91N 143.39E 0 3.7,3.6 **¶17197566**
ISCJB III 20 22 13 53.1–.85 35.83N–.09 143.1E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 22 16 02.5–.81 37.04N–.07 143.72E–.09 35 3.9b 29 2-89
IDC III 20 22 15 56.7–.88 36.99N 143.97E 0 4.0,3.9 **¶16479845**
ISCJB III 20 22 16 00.3–.62 37.01N–.07 143.75E–.08 33 3.9b,3.9
JMA III 20 22 16 01.2–.40 37.13N 143.63E 41 4.2,3.9
NEIC III 20 22 16 02.2–.56 36.94N 143.88E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.4km az=116.0.

ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=8.8km az=17.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.5km az=147.0.
IDC III 20 22 28 30.6–2.7 37.33N 143.85E 0 3.6,3.4
¶17197568
IDC Error ellipse: s-maj=75.0km s-min=25.0km az=59.0.
IDC III 20 22 42 21.8–2.9 36.71N 142.16E 0 3.4,3.3
¶17197571
IDC Error ellipse: s-maj=77.4km s-min=30.3km az=59.0.
ISC III 20 23 02 48.1–2.3 37.09N–.06 142.14E–.08 11–12 3.5b 19 1-57
NIED III 20 23 02 00 37.20N 142.30E 38 3.5W **¶17197572**
JMA III 20 23 02 46.4–.20 37.18N 142.29E 0 3.7
IDC III 20 23 02 47.3–1.5 37.22N 142.57E 0 3.6,3.4b
ISCJB III 20 23 02 49.3–2.4 37.18N–.06 142.35E–.08 27–20 3.3b,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ21.00000°,λ11.00000°. NP2:ϕ_s307.00000°,δ86.00000°,λ111.00000°. $M_0$2.25000×10^{14}
ISCJB Event type ke.
IDC III 20 23 06 28.5–8.3 34.78N 141.48E 0 3.5,3.4b
¶17197573
IDC Error ellipse: s-maj=275.1km s-min=34.0km az=59.0.
IDC III 20 23 07 35.4–3.2 36.26N 144.35E 0 3.6,3.5
¶17197574
IDC Error ellipse: s-maj=87.8km s-min=36.7km az=61.0.
IDC III 20 23 10 07.2–2.7 38.63N 144.35E 0 3.5,3.4
¶17197575
IDC Error ellipse: s-maj=69.5km s-min=32.2km az=67.0.
IDC III 20 23 11 16.3–3.1 36.74N 143.90E 0 3.3,3.2b
¶17197576
IDC Error ellipse: s-maj=80.0km s-min=36.1km az=62.0.
ISC III 20 23 13 59.2–.78 40.2N–.10 143.8E–.10 16 4.3b 51 2-116
IDC III 20 23 13 56.8–.72 40.13N 143.73E 0 4.9L,4.2 **¶16462010**
ISCJB III 20 23 13 57.7–.58 40.13N–.07 143.71E–.10 16 4.1b,4.2
NEIC III 20 23 13 59.6–3.1 40.16N 143.73E 17–18 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=16.4km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.3km az=43.9.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.9km az=120.0.
IDC III 20 23 25 02.8–2.8 38.27N 143.94E 0 3.5,3.4
¶17197578
IDC Error ellipse: s-maj=70.4km s-min=31.3km az=67.0.
IDC III 20 23 30 35.3–3.3 37.53N 142.49E 0 3.4,3.2b
¶17197579
IDC Error ellipse: s-maj=73.0km s-min=43.2km az=54.0.
ISC III 20 23 37 30.1–.88 36.88N–.10 142.23E–.05 10 3.8b 23 1-90
IDC III 20 23 37 28.1–.87 36.71N 142.18E 0 4.0,3.9L **¶602443757**
ISCJB III 20 23 37 28.4–.75 36.90N–.09 142.25E–.06 10 3.8b,3.9L
NEIC III 20 23 37 34.1–2.1 36.72N 142.08E 42–18 4.1b,3.9L
JMA III 20 23 37 52.1–.10 37.24N 141.08E 14–1 4.0,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=19.5km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=12.5km s-min=7.3km az=174.7.
NEIC Event type fe. Error ellipse: s-maj=18.5km s-min=14.6km az=99.0. Recorded [3 JMA] in Fukushima.
JMA Event type fe.
ISC III 21 00 12 43.6–1.1 36.3N–.20 143.4E–.10 35 3.5b 9 4-75
IDC III 21 00 12 38.4–.94 36.33N 143.51E 0 3.7,3.5 **¶17197586**
ISCJB III 21 00 12 41.2–.84 36.3N–.10 143.5E–.20 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 00 12 46.7–3.0 33.5N–.60 143.9E–.20 35 3.4b 6 6-146
IDC III 21 00 12 41.8–2.8 33.50N 143.99E 0 3.4,3.3 **¶17197587**
ISC Event type ke.
IDC Error ellipse: s-maj=88.0km s-min=30.0km az=11.0.
IDC III 21 00 13 08.7–3.3 36.33N 143.90E 0 3.7,3.4
¶17197590
IDC Error ellipse: s-maj=90.2km s-min=29.9km az=56.0.
ISC III 21 00 21 21.8–.59 34.18N–.05 141.63E–.07 24 3.7b 40 1-148
IDC III 21 00 21 18.1–.68 34.17N 141.64E 0 3.9,3.8 **¶16479864**
ISCJB III 21 00 21 19.7–.43 34.16N–.04 141.72E–.05 24 3.8s,3.7b
JMA III 21 00 21 20.3–.70 34.17N 141.64E 23 3.6,3.7b
NEIC III 21 00 21 23.2–.79 34.13N 141.62E 35–7 4.0b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=14.8km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.1km az=140.4.
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.7km az=64.0.
ISC III 21 00 25 29.9–.63 37.72N–.05 142.62E–.07 21 3.9b 36 1-146
JMA III 21 00 25 25.9–.40 37.66N 142.59E 0 4.2 **¶16479876**
ISCJB III 21 00 25 28.2–.51 37.67N–.04 142.71E–.06 21 3.9b
IDC III 21 00 25 34.3–2.6 37.60N 142.70E 63–23 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.1km az=145.5.
IDC Error ellipse: s-maj=17.6km s-min=13.4km az=97.0.
ISC III 21 00 26 11.5–.73 39.9N–.10 143.5E–.10 6 4.3b 51 2-87
ISCJB III 21 00 26 10.0–.58 39.93N–.08 143.46E–.09 6 4.1b **¶17197593**
NEIC III 21 00 26 16.3–.44 40.01N 143.39E 35 4.4b
IDC III 21 00 26 17.2–2.3 39.97N 143.40E 44–20 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=8.3km az=138.7.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.8km az=133.0.
IDC Error ellipse: s-maj=18.3km s-min=15.5km az=132.0.
ISC III 21 00 55 44.4–2.0 38.67N–.07 143.8E–.10 14 3.6b 24 2-59
NIED III 21 00 55 00 38.60N 143.80E 5 3.6W **¶17197596**
JMA III 21 00 55 44.6–.30 38.63N 143.83E 28 3.6
IDC III 21 00 55 50.8–2.5 38.96N 142.83E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ45.00000°,λ-116.00000°. NP2:ϕ_s228.00000°,δ50.00000°,λ-66.00000°. $M_0$2.61000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=55.1km s-min=28.2km az=67.0.
JMA III 21 00 57 07.0–.30 38.66N 143.83E 36 3.7
NIED III 21 00 57 00 38.70N 143.80E 8 3.7W **¶600559737**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ41.00000°,λ-46.00000°. NP2:ϕ_s358.00000°,δ62.00000°,λ-121.00000°. $M_0$4.02000×10^{14}
IDC III 21 01 06 37.6–2.7 37.09N 143.02E 0 3.8,3.8b
¶602681752
IDC Error ellipse: s-maj=68.8km s-min=30.8km az=65.0.
ISC III 21 01 08 12.5–2.5 37.29N–.07 142.40E–.09 2–13 18 1-57
IDC III 21 01 08 05.0–3.0 38.21N 142.98E 0 3.4,3.3L **¶17197600**
JMA III 21 01 08 12.3–.30 37.24N 142.43E 3 3.6,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=70.5km s-min=36.8km az=61.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 21 01 13 48.5–.76 37.94N–.07 144.47E–.07 10 4.3b,3.1s 62 3-88
IDC III 21 01 13 45.3–.68 37.69N 144.67E 0 4.2,4.1 **¶16450706**
ISCJB III 21 01 13 46.3–.45 37.81N–.05 144.45E–.04 10 4.1b,3.3s
NEIC III 21 01 13 48.4–2.8 37.69N 144.65E 19–16 4.6b,3.3s
JMA III 21 01 13 49.9–.20 37.94N 144.32E 25 4.5,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=15.2km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=168.7.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.9km az=105.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 21 01 38 49.4–2.5 38.67N–.06 144.00E–.06 9–15 4.3b,3.5s 86 2-118
IDC III 21 01 38 47.4–.62 38.58N 144.05E 0 4.2,4.1 **¶16350000**
NEIC III 21 01 38 48.6–2.7 38.60N 144.09E 8–16 4.6b,4.1
ISCJB III 21 01 38 49.4–1.5 38.65N–.04 143.94E–.04 21–10 4.2b,3.6s
JMA III 21 01 38 50.8–.20 38.66N 143.92E 40 4.7,3.6s

ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=13.3km az=106.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.6km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.4km az=160.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 21 01 47 47.7–.30 37.46N 142.68E 0 3.5
¶602682352
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 21 01 50 11.9–1.5 37.2N–.10 142.4E–.10 10 3.6b 13 1-57
NIED III 21 01 50 00 37.20N 142.30E 17 3.5W **¶602682345**
IDC III 21 01 50 08.2–2.5 37.30N 142.80E 0 3.7,3.6b
ISCJB III 21 01 50 10.4–1.3 37.34N–.10 142.50E–.09 10 3.5b,3.6b
JMA III 21 01 50 14.2–.20 37.23N 142.32E 30 3.9,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ29.00000°,λ-125.00000°. NP2:ϕ_s215.00000°,δ67.00000°,λ-73.00000°. $M_0$2.31000×10^{14}
IDC Error ellipse: s-maj=66.3km s-min=27.1km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=10.4km az=2.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 02 03 40.6–1.5 37.55N–.08 142.08E–.10 24 3.6b 14 1-58
IDC III 21 02 03 34.8–2.5 37.75N 142.70E 0 3.7b,3.7 **¶17197607**
JMA III 21 02 03 41.2–.20 37.54N 142.06E 21–4 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=66.2km s-min=27.5km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 02 07 59.8–.82 37.3N–.10 142.36E–.07 21 3.8b 20 1-146
IDC III 21 02 07 56.1–.79 37.25N 142.41E 0 4.0,3.8 **¶17197611**
ISCJB III 21 02 07 57.8–.66 37.31N–.08 142.43E–.06 21 3.8b,3.8
NIED III 21 02 08 00 37.50N 141.80E 8 3.8W,3.8
JMA III 21 02 08 08.8–.50 37.52N 141.83E 64 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=22.9km s-min=19.2km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.2km az=7.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ50.00000°,λ-34.00000°. NP2:ϕ_s203.00000°,δ65.00000°,λ-135.00000°. $M_0$6.27000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC III 21 02 22 37.3–.83 35.80N–.05 143.38E–.07 35 3.8b 36 2-90
IDC III 21 02 22 32.6–.79 35.68N 143.51E 0 4.0,3.9b **¶17197612**
ISCJB III 21 02 22 36.1–.55 35.84N–.04 143.33E–.04 33 3.8b,3.8s
JMA III 21 02 22 36.5–.40 35.82N 143.29E 79 4.1,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=18.1km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.8km az=153.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 21 02 37 20.3–.64 40.32N–.03 143.68E–.04 17–3 4.8b,4.3s 546 2-146
IDC III 21 02 37 17.4–.52 40.25N 143.80E 0 4.5,4.5 **¶602682247**
ISCJB III 21 02 37 17.3–.96 40.26N–.02 143.70E–.02 7–5 4.7b,4.3s
BJI III 21 02 37 18.7 40.33N 143.54E 15 5.0b,4.8b
JMA III 21 02 37 19.5–.30 40.33N 143.60E 10–4 4.7,4.8b
MOS III 21 02 37 20.7–1.1 40.35N 143.70E 29 5.0b,4.8b
NEIC III 21 02 37 20.2–2.0 40.25N 143.69E 16–12 4.8b,4.8b
ISC Event type ke.
IDC Error ellipse: s-maj=13.9km s-min=11.7km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=163.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=105.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.5km az=139.0.
ISC III 21 02 48 15.6–.93 37.79N–.06 143.63E–.07 35 3.6b 32 2-76
IDC III 21 02 48 10.1–1.1 37.54N 143.96E 0 3.9,3.7 **¶17197613**
JMA III 21 02 48 14.3–.40 37.83N 143.35E 9 3.7,3.7
ISCJB III 21 02 48 14.2–.72 37.82N–.04 143.58E–.05 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 02 56 01.5–.52 37.34N–.05 142.54E–.06 21 4.5b,3.7s 77 1-146
NIED III 21 02 55 00 37.40N 142.50E 8 4.2W,3.7s **¶16340096**
IDC III 21 02 55 58.1–.61 37.36N 142.63E 0 4.4,4.3
BJI III 21 02 55 58.5 37.36N 142.63E 21 4.9b,4.7s
ISCJB III 21 02 55 59.3–.38 37.27N–.04 142.63E–.05 21 4.4b,3.7s
JMA III 21 02 55 59.1–.40 37.44N 142.54E 4 4.4,3.7s
NEIC III 21 02 56 03.3–1.0 37.32N 142.62E 36–9 4.6b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ17.00000°,λ-104.00000°. NP2:ϕ_s29.00000°,δ74.00000°,λ-86.00000°. $M_0$2.04000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=13.6km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.9km az=31.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.4km az=86.0.
ISC III 21 03 04 31.6–.71 38.58N–.10 144.16E–.09 14 4.0b 23 5-87
IDC III 21 03 04 29.4–.71 38.59N 144.13E 0 4.4L,4.1 **¶602682209**
ISCJB III 21 03 04 29.7–.58 38.57N–.08 144.14E–.09 14 3.9b,4.1
NEIC III 21 03 04 31.1–.41 38.62N 144.14E 10 4.0b,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=15.6km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.7km az=138.4.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.7km az=130.0.
ISC III 21 03 17 38.4–.70 38.69N–.06 144.02E–.08 14 4.0b 48 2-118
IDC III 21 03 17 35.5–.69 38.55N 144.08E 0 4.3L,4.2 **¶602682183**
ISCJB III 21 03 17 36.7–.51 38.62N–.05 144.01E–.06 14 4.0b,4.2
NEIC III 21 03 17 37.1–.48 38.57N 144.17E 10 4.5b,4.2
JMA III 21 03 17 39.3–.30 38.65N 143.97E 43 4.4,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=13.7km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=5.1km az=142.2.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.3km az=128.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 21 04 11 59.8–1.2 36.41N 142.77E 0 3.5,3.4
¶17197620
IDC Error ellipse: s-maj=30.0km s-min=27.4km az=143.0.
ISC III 21 04 14 11.9–1.3 38.8N–.20 144.6E–.20 35 3.4b 8 11-59
IDC III 21 04 14 06.8–1.4 38.77N 144.65E 0 3.6,3.5 **¶17197621**
ISCJB III 21 04 14 09.7–1.2 38.7N–.20 144.6E–.20 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 04 24 16.4–1.2 36.4N–.20 143.1E–.20 29 3.6b 7 29-75
IDC III 21 04 24 12.1–1.1 36.37N 143.17E 0 3.8,3.6 **¶17197625**
ISCJB III 21 04 24 14.3–1.0 36.3N–.10 143.2E–.30 29 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 04 26 28.6–.75 36.5N–.10 144.5E–.10 35 3.8b 14 5-88
IDC III 21 04 26 23.4–.72 36.50N 144.51E 0 3.9,3.7 **¶17197626**
ISCJB III 21 04 26 26.4–.62 36.46N–.10 144.4E–.10 33 3.9b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 04 34 12.3–1.4 36.92N–.09 142.2E–.20 36–4 3.5b 23 1-69
NIED III 21 04 34 00 37.00N 142.10E 44 3.6W **¶600559917**
IDC III 21 04 34 06.1–1.9 37.07N 142.47E 0 3.7,3.7b
ISCJB III 21 04 34 11.1–1.4 36.91N–.06 142.19E–.09 44–11 3.6b,3.7b
JMA III 21 04 34 12.7–.30 37.02N 142.06E 36 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ25.00000°,λ106.00000°. NP2:ϕ_s5.00000°,δ66.00000°,λ83.00000°. $M_0$3.21000×10^{14}
IDC Error ellipse: s-maj=51.2km s-min=29.3km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=8.5km az=23.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 21 05 25 27.7–1.4 38.34N–.08 144.0E–.10 14 3.5b 20 2-59
IDC III 21 05 25 24.2–2.7 38.33N 144.32E 0 3.6,3.5 **¶17197635**
JMA III 21 05 25 27.6–.20 38.40N 143.75E 0 3.9,3.5
ISCJB III 21 05 25 27.5–1.2 38.34N–.07 143.92E–.08 14 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 05 27 55.6–1.1 37.98N–.10 142.7E–.20 14 3.7b 8 4-62

IDC III 21 05 27 53.5–1.2 38.06N 142.68E 0 3.9,3.8 ¶17197636
ISCJB III 21 05 27 53.5–.99 38.0N–.10 142.7E–.20 14 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 05 50 34.5–.81 37.96N–.07 143.39E–.10 19 4.0b 30 2-145
IDC III 21 05 50 31.8–.79 37.90N 143.41E 0 4.2,4.1 ¶17197637
ISCJB III 21 05 50 32.8–.66 38.00N–.06 143.42E–.08 19 4.0b,4.1
JMA III 21 05 50 32.2–.90 37.94N 143.54E 33 4.3,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=16.4km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.7km az=37.6.
JMA Error ellipse: s-maj=3.3km s-min=7.0km az=-1.0.
ISC III 21 05 54 10.7–.39 36.28N–.03 142.10E–.03 24–2 5.1b,4.8s 603 1-148
NIED III 21 05 54 00 36.30N 142.20E 17 4.9W,4.8s ¶600560047
IDC III 21 05 54 06.7–.51 36.25N 142.19E 0 4.9,4.8
BJI III 21 05 54 07.8 36.20N 142.10E 37 5.2b,5.1b
JMA III 21 05 54 09.4–.20 36.30N 142.17E 71 5.1,5.1b
ISCJB III 21 05 54 09.0–.68 36.32N–.02 142.06E–.02 20–4 5.0b,4.7s
MOS III 21 05 54 12.3–.79 36.62N 142.00E 33 5.4b,4.8s
GCMT III 21 05 54 12.5–.30 36.26N 142.41E 26–1 5.0W,4.8s
NEIC III 21 05 54 12.5–.14 36.25N 142.01E 35 5.0b,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ32.00000°,λ48.00000°. NP2:ϕ_s32.00000°,δ67.00000°,λ113.00000°. $M_0$2.62000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.6km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.7km az=143.6.
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=112.4.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c51; s85,c123; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.33±.18 $M_{\theta\theta}$-0.92±.11; $M_{\phi\phi}$-2.41±.11; $M_{r\theta}$1.09±.20; $M_{\theta\phi}$-1.13±.06; $M_{\phi r}$3.19±.20; Best double couple: NP1:ϕ_s22.00000°,δ68.00000°,λ86.00000°. NP2:ϕ_s213.00000°,δ22.00000°,λ101.00000°. Principal axes: T 4.8040,Plg66.0000°,Azm284.0000°; N -0.3520,Plg4.0000°,Azm23.0000°; P -4.4530,Plg23.0000°,Azm115.0000° $M_0$4.62800×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=148.0.
ISC III 21 06 09 01.7–.74 38.2N–.10 144.30E–.09 10 4.1b 35 5-88
IDC III 21 06 09 00.0–.68 38.23N 144.26E 0 4.1,4.0 ¶16479925
ISCJB III 21 06 09 00.1–.51 38.24N–.08 144.22E–.07 10 4.0b,4.0
NEIC III 21 06 09 04.3–3.7 38.24N 144.23E 26–26 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=16.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=6.7km az=152.9.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.8km az=122.0.
ISC III 21 06 16 04.0–4.1 38.38N–.06 144.06E–.07 25–29 4.2b 61 2-149
IDC III 21 06 15 59.6–.62 38.26N 144.23E 0 4.2,4.1 ¶16479928
NEIC III 21 06 16 01.3–.37 38.29N 144.23E 10 4.4b,4.1
JMA III 21 06 16 03.4–.30 38.36N 143.95E 36 4.3,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=14.3km az=129.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.9km az=145.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 21 06 26 51.1–3.8 37.67N–.05 142.94E–.07 0–24 3.7b 30 2-62
NIED III 21 06 26 00 37.70N 142.90E 8 3.7W ¶17197640
IDC III 21 06 26 50.8–1.0 37.65N 143.23E 0 3.8,3.7
JMA III 21 06 26 52.3–.30 37.70N 142.91E 8 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ28.00000°,λ-57.00000°. NP2:ϕ_s355.00000°,δ67.00000°,λ-106.00000°. $M_0$3.45000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=18.6km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 21 06 43 03.3–2.7 37.39N–.05 142.46E–.09 4–15 3.7b 25 1-61
NIED III 21 06 43 00 37.40N 142.50E 8 3.7W ¶17197641
IDC III 21 06 43 01.1–2.3 37.59N 143.19E 0 3.7,3.6
ISCJB III 21 06 43 03.5–1.8 37.31N–.05 142.61E–.08 15–12 3.6b,3.6
JMA III 21 06 43 03.7–.40 37.44N 142.48E 0 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s218.00000°,δ57.00000°,λ-87.00000°. $M_0$4.04000×10^{14}
IDC Error ellipse: s-maj=66.4km s-min=23.4km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.5km az=152.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 21 06 45 36.0–1.3 38.5N–.20 144.8E–.20 43 3.3b 8 6-59
IDC III 21 06 45 30.1–1.4 38.54N 144.89E 0 3.7,3.5L ¶17197642
ISCJB III 21 06 45 33.9–1.2 38.4N–.20 144.8E–.20 43 3.4b,3.5L
ISC Event type ke.
ISCJB Event type ke.
IDC III 21 06 57 11.7–1.2 37.57N 144.05E 0 3.7,3.5
¶17197643
IDC Error ellipse: s-maj=33.3km s-min=24.4km az=85.0.
ISC III 21 07 05 10.9–2.5 35.81N–.06 142.79E–.08 9–13 3.4b 23 2-90
IDC III 21 07 05 09.3–1.3 35.74N 143.05E 0 3.7,3.5 ¶17197644
ISCJB III 21 07 05 11.5–2.4 35.93N–.05 142.97E–.07 29–19 3.5b,3.5
JMA III 21 07 05 13.2–.30 35.95N 142.84E 60 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.6km s-min=24.5km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.8km az=22.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 21 07 11 39.5–.40 39.33N 144.64E 45 4.1
¶602680935
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 21 07 14 33.7–.66 36.41N–.05 142.90E–.07 29 3.8b 44 2-146
NIED III 21 07 14 00 36.40N 142.80E 5 4.0W ¶602680926
IDC III 21 07 14 29.0–.74 36.30N 143.05E 0 4.0,3.9
NEIC III 21 07 14 30.3–.45 36.25N 143.04E 10 4.6b,3.9
JMA III 21 07 14 32.6–.20 36.45N 142.81E 41 3.7,3.9
ISCJB III 21 07 14 32.2–.52 36.41N–.04 142.82E–.05 29 3.9b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ35.00000°,λ-88.00000°. NP2:ϕ_s198.00000°,δ55.00000°,λ-91.00000°. $M_0$9.58000×10^{14}
NEIC Event type se.
ISCJB Event type ke.
ISC III 21 07 20 56.7–.78 36.43N–.05 142.76E–.08 29 3.7b 33 2-146
NIED III 21 07 20 00 36.40N 142.70E 5 3.9W ¶17197645
IDC III 21 07 20 51.8–.80 36.36N 143.14E 0 3.8,3.7
JMA III 21 07 20 55.5–.20 36.41N 142.73E 88 3.5,3.7
ISCJB III 21 07 20 55.1–.58 36.42N–.04 142.76E–.05 29 3.8b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ34.00000°,λ-82.00000°. NP2:ϕ_s190.00000°,δ56.00000°,λ-95.00000°. $M_0$7.83000×10^{14}
ISCJB Event type ke.
ISC III 21 07 25 14.2–4.7 36.39N–.05 142.82E–.07 10–29 3.8b 45 2-146
NIED III 21 07 25 00 36.40N 142.80E 5 3.8W ¶16479937
IDC III 21 07 25 12.5–.73 36.31N 142.93E 0 4.0,3.9
JMA III 21 07 25 15.9–.30 36.44N 142.81E 80 3.6,3.9
NEIC III 21 07 25 15.2–4.2 36.24N 142.93E 18–26 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ42.00000°,λ-89.00000°. NP2:ϕ_s201.00000°,δ48.00000°,λ-91.00000°. $M_0$5.29000×10^{14}
IDC Error ellipse: s-maj=19.8km s-min=16.2km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.4km az=69.0.
JMA III 21 07 47 03.3–.30 39.63N 143.47E 14 3.6
¶602680878
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 21 07 53 07.1–.30 37.58N 142.05E 36 3.9
¶602680845
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 21 08 25 50.6–.60 37.83N 143.75E 45 3.8
NIED III 21 08 25 00 37.80N 143.70E 11 3.6W ¶600560274
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ69.00000°,λ-173.00000°. NP2:ϕ_s64.00000°,δ84.00000°,λ-21.00000°. $M_0$2.84000×10^{14}
IDC III 21 08 38 32.5–1.8 36.26N 143.48E 0 3.9,3.9b
¶17197649
IDC Error ellipse: s-maj=60.1km s-min=25.5km az=77.0.
IDC III 21 08 55 36.1–2.2 37.87N 144.29E 0 3.8,3.7
¶17197650
IDC Error ellipse: s-maj=44.7km s-min=32.4km az=68.0.
ISC III 21 08 56 33.6–1.5 36.11N–.09 142.4E–.10 15 3.6b 10 2-60
IDC III 21 08 56 30.5–2.9 36.27N 142.56E 0 3.7,3.6 ¶17197651
JMA III 21 08 56 32.3–.30 36.32N 142.62E 68 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=84.6km s-min=24.1km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 21 08 57 50.2–.40 37.53N 142.67E 7 3.7
¶602680505
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 21 09 02 31.2–.98 38.07N–.06 143.98E–.07 35 3.4b 32 2-62
NIED III 21 09 02 00 38.10N 143.60E 8 3.6W ¶17197652
IDC III 21 09 02 26.0–.93 37.92N 144.04E 0 3.8,3.6
JMA III 21 09 02 29.8–.30 38.15N 143.65E 0 3.8,3.6
ISCJB III 21 09 02 29.8–.72 38.12N–.04 143.94E–.05 33 3.6b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ27.00000°,λ-95.00000°. NP2:ϕ_s223.00000°,δ63.00000°,λ-87.00000°. $M_0$2.87000×10^{14}
ISCJB Event type ke.
ISC III 21 09 24 17.0–.62 37.87N–.05 142.58E–.06 14 3.9b 40 1-145
NIED III 21 09 24 00 37.90N 142.50E 26 4.3W ¶16342625
ISCJB III 21 09 24 15.1–.44 37.81N–.04 142.67E–.05 14 4.0b
NEIC III 21 09 24 16.7–.46 37.92N 142.63E 10 4.6b
JMA III 21 09 24 19.0–.20 37.95N 142.55E 28 4.4
IDC III 21 09 24 20.5–4.2 37.92N 142.51E 34–33 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ66.00000°,λ164.00000°. NP2:ϕ_s231.00000°,δ75.00000°,λ25.00000°. $M_0$3.00000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.5km az=154.4.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.1km az=133.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=15.0km az=105.0.
ISC III 21 10 18 25.2–.92 38.71N–.06 144.05E–.07 14 3.5b 30 2-87
IDC III 21 10 18 22.9–.95 38.48N 144.17E 0 3.7s,3.7 ¶17197660
JMA III 21 10 18 25.8–.20 38.70N 143.99E 30 3.7,3.7
ISCJB III 21 10 18 25.1–.79 38.78N–.05 143.96E–.06 14 3.7s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 10 36 01.8–1.1 38.66N–.08 143.79E–.07 14 3.6b 25 2-88
IDC III 21 10 36 00.6–1.9 38.91N 143.83E 0 3.8,3.6 ¶17197666
ISCJB III 21 10 36 00.3–.86 38.66N–.06 143.92E–.06 14 3.6b,3.6
JMA III 21 10 36 01.7–.30 38.63N 143.82E 15 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=49.2km s-min=24.0km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.5km az=163.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 21 10 37 04.5–.30 38.55N 144.02E 19 4.2
¶602681454
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 21 10 43 11.8–.65 38.09N–.04 144.68E–.04 17–3 5.1b,4.4s 780 3-153
NIED III 21 10 43 00 38.00N 144.50E 11 4.6W,4.4s ¶16341181
IDC III 21 10 43 08.7–.43 37.98N 144.75E 0 4.9,4.8
NEIC III 21 10 43 10.6–.15 37.97N 144.69E 10 5.1b,4.8
ISCJB III 21 10 43 10.5–.91 38.04N–.03 144.65E–.02 15–5 4.9b,4.3s
BJI III 21 10 43 11.7 38.06N 144.37E 11 5.1b,4.8b
MOS III 21 10 43 12.1–1.1 38.33N 144.58E 22 5.3b,4.8b
JMA III 21 10 43 12.8–.30 37.99N 144.48E 43 4.6,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ43.00000°,λ-48.00000°. NP2:ϕ_s153.00000°,δ59.00000°,λ-122.00000°. $M_0$8.40000×10^{15}
IDC Error ellipse: s-maj=12.9km s-min=11.2km az=106.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.8km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.4km az=175.9.
MOS Error ellipse: s-maj=8.2km s-min=6.1km az=91.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 21 10 51 14.9–2.3 37.65N–.04 143.13E–.09 6–14 3.7b 26 2-76
IDC III 21 10 51 14.9–.91 37.46N 143.88E 0 3.9,3.9 ¶17197668
JMA III 21 10 51 17.8–.30 37.70N 143.35E 37 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=17.9km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 21 10 57 14.3–.40 39.65N 143.51E 18 3.8
¶602681387
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISC III 21 10 58 58.4–.85 39.45N–.05 143.39E–.07 11 3.5b 25 2-87
IDC III 21 10 58 57.1–.86 39.43N 143.33E 0 3.7,3.6 ¶602681379
ISCJB III 21 10 58 57.5–.68 39.56N–.05 143.53E–.08 11 3.5b,3.6
JMA III 21 10 58 59.6–.30 39.65N 143.50E 18 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=16.9km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.8km az=5.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 21 11 13 19.9–.30 38.19N 144.17E 27 3.7
¶602681345
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 21 11 22 39.7–1.1 37.78N–.05 143.56E–.09 19 3.5b 27 2-62
IDC III 21 11 22 36.6–1.3 37.71N 143.78E 0 3.7,3.6 ¶17197669
ISCJB III 21 11 22 38.2–.73 37.81N–.05 143.57E–.06 19 3.4b,3.6
JMA III 21 11 22 40.3–.20 37.86N 143.49E 30 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.7km s-min=20.2km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.8km az=154.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 11 37 47.1–.86 36.49N–.05 143.50E–.07 35 3.3b 26 2-89
IDC III 21 11 37 42.0–.90 36.38N 143.81E 0 3.7,3.5 ¶17197670
JMA III 21 11 37 43.0–.80 36.57N 143.30E 0 3.8,3.5
ISCJB III 21 11 37 45.0–.71 36.50N–.05 143.46E–.05 33 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 11 59 07.0–1.5 36.01N–.08 142.2E–.10 23 3.6b 14 1-56
IDC III 21 11 59 04.8–2.2 35.99N 141.83E 0 3.7,3.6 ¶17197671
ISCJB III 21 11 59 04.7–1.0 36.03N–.07 142.30E–.09 23 3.5b,3.6
JMA III 21 11 59 06.6–.20 36.12N 142.19E 74–5 2.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=50.9km s-min=20.8km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.1km az=149.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 21 12 24 20.8–.97 37.74N–.06 142.86E–.08 24 3.6b 26 1-62
JMA III 21 12 24 19.5–.40 37.69N 142.60E 1–4 4.1 ¶17197672
ISCJB III 21 12 24 19.1–.72 37.74N–.06 142.93E–.07 24 3.6b
IDC III 21 12 24 24.2–3.3 37.76N 142.76E 52–30 3.7,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.5km az=164.9.
IDC Error ellipse: s-maj=29.9km s-min=17.1km az=87.0.
ISC III 21 12 35 31.9–1.2 39.96N–.07 143.5E–.10 6 3.5b 18 2-64
NIED III 21 12 35 00 39.90N 143.50E 14 3.8W ¶17197673
IDC III 21 12 35 30.7–1.4 39.88N 143.73E 0 3.6,3.5
ISCJB III 21 12 35 30.0–.90 39.88N–.06 143.7E–.10 6 3.4b,3.5
JMA III 21 12 35 33.8–.50 39.91N 143.49E 22 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ33.00000°,λ110.00000°. NP2:ϕ_s26.00000°,δ59.00000°,λ78.00000°. $M_0$5.67000×10^{14}
IDC Error ellipse: s-maj=38.5km s-min=21.5km az=80.0.

ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.9km az=29.1.
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
ISC III 21 12 37 34.7–.34 37.46N–.04 142.45E–.04 20–1 5.1b,4.3s 582 1-154
NIED III 21 12 37 00 37.40N 142.40E 14 4.7W,4.3s ¶16341360
IDC III 21 12 37 31.5–.39 37.40N 142.48E 0 4.9,4.9
ISCJB III 21 12 37 34.0–.75 37.44N–.02 142.36E–.02 21–5 5.0b,4.3s
BJI III 21 12 37 33.8 37.46N 142.41E 29 5.1b,4.9b
JMA III 21 12 37 33.2–.30 37.45N 142.38E 13–4 4.9,4.9b
NEIC III 21 12 37 35.9–1.1 37.42N 142.37E 24–8 5.0b,4.9b
GCMT III 21 12 37 35.9–.50 37.50N 142.39E 22–1 4.8W,4.9b
MOS III 21 12 37 37.4–.88 37.83N 142.33E 33 5.2b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ38.00000°,λ-94.00000°. NP2:ϕ_s352.00000°,δ52.00000°,λ-87.00000°. $M_0$1.12000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=9.4km az=106.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=161.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=139.0.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s61,c85; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.30±.19 $M_{\theta\theta}$0.47±.11; $M_{\phi\phi}$1.82±.11; $M_{r\theta}$0.36±.25; $M_{\theta\phi}$-0.08±.07; $M_{\phi r}$-0.03±.16; Best double couple: NP1:ϕ_s349.00000°,δ46.00000°,λ-100.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-80.00000°. Principal axes: T 1.8250,Plg1.0000°,Azm86.0000°; N 0.5160,Plg7.0000°,Azm356.0000° ; P -2.3470,Plg83.0000°,Azm182.0000° $M_0$2.08600×10^{16}
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=106.3.
ISC III 21 12 46 50.9–2.9 36.06N–.05 142.35E–.07 27–21 3.9b 48 1-90
NIED III 21 12 46 00 36.20N 142.30E 14 4.0W ¶16479974
IDC III 21 12 46 47.0–.68 36.06N 142.49E 0 4.1,3.9
JMA III 21 12 46 50.4–.20 36.22N 142.30E 69 3.9,3.9
ISCJB III 21 12 46 50.6–1.0 36.14N–.04 142.32E–.07 34–9 4.0b,3.9
NEIC III 21 12 46 52.0–.41 36.03N 142.37E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ40.00000°,λ69.00000°. NP2:ϕ_s26.00000°,δ54.00000°,λ107.00000°. $M_0$1.13000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=14.9km az=131.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.8km az=176.6.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=8.3km az=165.0.
IDC III 21 12 57 16.7–2.3 38.39N 145.02E 0 3.7,3.6
¶17197676
IDC Error ellipse: s-maj=53.9km s-min=31.6km az=68.0.
ISC III 21 13 01 11.0–.92 36.01N–.04 142.44E–.05 19–4 4.7b,3.9s 312 1-146
BJI III 21 13 01 07.0 36.10N 142.55E 13 4.8b,4.6b ¶16341361
IDC III 21 13 01 07.7–.44 35.95N 142.42E 0 4.6,4.5
ISCJB III 21 13 01 08.6–1.0 36.01N–.03 142.38E–.02 13–6 4.7b,3.9s
NEIC III 21 13 01 09.0–2.4 35.99N 142.40E 7–15 4.8b,3.9s
MOS III 21 13 01 10.5–.87 36.34N 142.31E 17 4.9b,3.9s
JMA III 21 13 01 10.6–.20 36.05N 142.35E 78 4.6,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=10.6km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=164.4.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.6km az=132.0.
MOS Error ellipse: s-maj=7.5km s-min=5.2km az=105.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 21 13 06 53.7–.88 38.19N–.06 143.38E–.08 19 3.7b 25 2-76
IDC III 21 13 06 51.2–.84 38.11N 143.57E 0 4.0,3.9L ¶17197677
ISCJB III 21 13 06 52.3–.67 38.18N–.06 143.35E–.06 19 3.7b,3.9L
JMA III 21 13 06 53.2–.60 38.31N 143.28E 17 4.0,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=25.0km s-min=17.6km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.3km az=164.9.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
JMA III 21 13 24 54.3–.20 37.95N 142.50E 26 3.7
NIED III 21 13 24 00 38.00N 142.50E 32 3.7W ¶600560627
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ66.00000°,λ165.00000°. NP2:ϕ_s230.00000°,δ76.00000°,λ25.00000°. $M_0$3.35000×10^{14}
ISC III 21 13 36 03.0–.74 36.65N–.05 143.67E–.04 19–2 4.8b,3.9s 545 2-153
BJI III 21 13 35 58.6 36.60N 143.60E 9 4.9b,4.6b ¶16341362
IDC III 21 13 35 59.5–.46 36.62N 143.75E 0 4.7,4.6
ISCJB III 21 13 36 00.4–.93 36.71N–.03 143.57E–.02 13–5 4.7b,3.8s
NEIC III 21 13 36 01.8–1.9 36.62N 143.66E 13–12 4.8b,3.8s
JMA III 21 13 36 03.2–.20 36.76N 143.52E 56 4.5,3.8s
MOS III 21 13 36 04.2–.92 36.93N 143.60E 30 4.9b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=11.3km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.5km az=173.2.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=5.2km az=106.2.
ISC III 21 13 44 10.7–.77 36.18N–.06 142.21E–.07 23 3.6b 30 1-78
NIED III 21 13 44 00 36.30N 142.20E 11 3.7W ¶16447666
IDC III 21 13 44 07.5–.82 36.17N 142.24E 0 3.9L,3.8
ISCJB III 21 13 44 08.5–.54 36.15N–.04 142.26E–.05 23 3.6b,3.8
JMA III 21 13 44 09.7–.20 36.28N 142.25E 63 3.5,3.8
NEIC III 21 13 44 12.4–.59 36.13N 142.11E 35 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ45.00000°,λ-10.00000°. NP2:ϕ_s125.00000°,δ83.00000°,λ-135.00000°. $M_0$3.40000×10^{14}
IDC Error ellipse: s-maj=24.1km s-min=18.3km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.6km az=135.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=12.1km az=11.0.
ISC III 21 13 54 44.6–2.5 36.79N–.06 143.49E–.05 23–17 4.0b 36 2-89
IDC III 21 13 54 39.8–.67 36.54N 143.78E 0 4.2,4.0L ¶17197679
ISCJB III 21 13 54 42.7–1.6 36.71N–.04 143.48E–.04 26–12 4.0b,4.0L
JMA III 21 13 54 43.6–.30 36.74N 143.49E 56 4.4,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=18.1km s-min=15.9km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=151.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 14 20 11.4–1.0 36.21N–.08 142.5E–.10 15 3.6b 14 4-60
ISCJB III 21 14 20 09.0–.89 36.21N–.07 142.7E–.10 15 3.6b ¶17197681
IDC III 21 14 20 09.0–1.1 36.28N 142.63E 0 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=9.8km az=8.7.
IDC Error ellipse: s-maj=27.1km s-min=19.0km az=76.0.
ISC III 21 14 33 35.4–.71 36.33N–.08 143.8E–.10 35 3.6b 15 5-89
IDC III 21 14 33 30.9–.80 36.48N 143.98E 0 3.8,3.7 ¶17197682
ISCJB III 21 14 33 33.6–.63 36.34N–.08 143.8E–.10 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 14 37 54.5–.81 38.00N–.09 142.8E–.10 18 3.5b 12 4-89
IDC III 21 14 37 52.0–.86 38.10N 142.80E 0 3.8,3.6 ¶17197684
ISCJB III 21 14 37 52.8–.68 38.00N–.07 142.7E–.10 18 3.5b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 15 25 17.2–1.4 39.74N–.08 143.3E–.10 11 3.6b 18 2-46
JMA III 21 15 25 13.8–.50 39.68N 143.56E 0 4.1 ¶17197692
IDC III 21 15 25 15.5–2.6 39.77N 143.42E 0 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=54.9km s-min=25.3km az=146.0.
ISC III 21 15 39 14.8–.45 36.62N–.05 143.72E–.06 35 4.3b,3.3s 91 2-150
JMA III 21 15 39 12.4–.40 36.67N 143.71E 49 4.2,3.3s ¶16342413
ISCJB III 21 15 39 13.1–.33 36.59N–.04 143.69E–.04 33 4.3b,3.3s
IDC III 21 15 39 13.6–.60 36.50N 143.84E 27–3 4.2,4.2
NEIC III 21 15 39 14.5–.30 36.48N 143.83E 35 4.5b,4.2
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.5km az=162.8.
IDC Error ellipse: s-maj=13.6km s-min=12.0km az=126.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.2km az=156.0.
IDC III 21 15 45 55.2–1.1 37.46N 144.66E 29–6 3.6,3.5
¶17197694
IDC Error ellipse: s-maj=50.6km s-min=20.3km az=116.0.
ISC III 21 15 59 17.5–.97 38.30N–.07 144.04E–.08 14 3.5b 28 2-88
NIED III 21 15 59 00 38.30N 144.10E 5 3.7W ¶17197697
IDC III 21 15 59 14.8–1.0 38.19N 144.30E 0 3.8,3.6L
ISCJB III 21 15 59 16.4–.70 38.31N–.06 144.03E–.05 14 3.4b,3.6L
JMA III 21 15 59 17.9–.30 38.34N 144.07E 44 3.9,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ19.00000°,λ-66.00000°. NP2:ϕ_s183.00000°,δ72.00000°,λ-98.00000°. $M_0$4.07000×10^{14}
IDC Error ellipse: s-maj=30.4km s-min=23.6km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.9km az=175.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 21 16 11 03.3–1.8 36.2N–.10 143.2E–.20 35 3.5b 7 4-60
IDC III 21 16 10 57.2–2.3 36.27N 143.46E 0 3.5,3.4 ¶17197698
ISC Event type ke.
IDC Error ellipse: s-maj=58.4km s-min=26.3km az=64.0.
ISC III 21 16 21 37.4–.98 35.8N–.20 142.3E–.10 56 3.5b 10 3-90
IDC III 21 16 21 30.0–.96 35.72N 142.45E 0 3.6,3.4 ¶17197701
ISCJB III 21 16 21 35.4–.79 35.7N–.10 142.3E–.10 56 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 21 16 32 43.2–3.4 35.42N 142.27E 0 3.4,3.3b
¶17197702
IDC Error ellipse: s-maj=105.0km s-min=29.2km az=61.0.
ISC III 21 16 44 16.1–2.1 37.73N–.05 142.28E–.07 8–12 4.1b 44 1-69
NIED III 21 16 44 00 37.80N 142.30E 17 3.8W ¶16447669
IDC III 21 16 44 14.8–.82 37.66N 142.34E 0 3.9,3.9
ISCJB III 21 16 44 15.7–1.4 37.69N–.04 142.33E–.07 18–9 4.0b,3.9
JMA III 21 16 44 17.2–.30 37.75N 142.26E 20–4 4.2,3.9
NEIC III 21 16 44 18.8–3.2 37.70N 142.31E 26–22 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ10.00000°,λ-106.00000°. NP2:ϕ_s217.00000°,δ80.00000°,λ-87.00000°. $M_0$6.10000×10^{14}
IDC Error ellipse: s-maj=20.1km s-min=14.3km az=98.0.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=6.6km az=11.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.5km az=118.0.
ISC III 21 16 46 57.2–.44 37.74N–.04 142.33E–.04 19–1 4.9b,4.7s 380 1-151
NIED III 21 16 46 00 37.70N 142.30E 20 5.0W,4.7s ¶16341370
IDC III 21 16 46 54.5–.42 37.71N 142.38E 0 4.5,4.4
BJI III 21 16 46 54.4 37.78N 142.17E 10 5.1b,4.9b
ISCJB III 21 16 46 54.5–.84 37.73N–.02 142.35E–.02 11–5 4.8b,4.7s
JMA III 21 16 46 56.4–.20 37.74N 142.31E 22–4 5.0,4.7s
MOS III 21 16 46 56.8–1.2 37.85N 142.40E 24 5.1b,4.7s
NEIC III 21 16 46 57.3–.55 37.72N 142.28E 19–3 5.0b,4.7s
GCMT III 21 16 46 57.3–.40 37.92N 142.31E 23–1 5.0W,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ14.00000°,λ-130.00000°. NP2:ϕ_s214.00000°,δ79.00000°,λ-81.00000°. $M_0$3.12000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.2km az=168.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=104.7.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.4km az=135.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c33; s69,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.94±.17 $M_{\theta\theta}$0.02±.09; $M_{\phi\phi}$1.92±.11; $M_{r\theta}$1.63±.18; $M_{\theta\phi}$0.40±.06; $M_{\phi r}$1.97±.16; Best double couple: NP1:ϕ_s213.00000°,δ72.00000°,λ-76.00000°. NP2:ϕ_s354.00000°,δ22.00000°,λ-126.00000°. Principal axes: T 3.1050,Plg26.0000°,Azm292.0000°; N 0.2290,Plg13.0000°,Azm28.0000° ; P -3.3380,Plg61.0000°,Azm143.0000° $M_0$3.22200×10^{16}
ISC III 21 16 51 08.5–2.0 37.98N–.05 142.05E–.09 25–14 3.6b 27 1-63
JMA III 21 16 51 10.0–.20 38.02N 141.99E 40–3 4.2 ¶600561018
IDC III 21 16 51 11.8–3.4 37.98N 141.99E 53–32 3.6,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=22.2km az=77.0.
ISC III 21 17 01 49.7–.84 38.86N–.09 144.8E–.10 35 3.6b 20 6-74
IDC III 21 17 01 45.0–.87 39.00N 144.86E 0 3.9L,3.8 ¶17197706
ISCJB III 21 17 01 47.7–.72 38.93N–.08 144.8E–.10 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 21 17 09 02.9–3.5 36.11N 143.24E 0 3.6,3.4b
¶17197707
IDC Error ellipse: s-maj=93.8km s-min=31.0km az=54.0.
ISC III 21 17 09 58.0–1.2 37.7N–.10 142.3E–.20 21 3.5b 11 1-62
JMA III 21 17 09 55.9–.40 37.72N 142.25E 5–5 3.6 ¶17197710
ISCJB III 21 17 09 55.6–.94 37.71N–.10 142.4E–.10 21 3.4b
IDC III 21 17 10 01.5–5.5 37.68N 142.34E 52–48 3.4,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=13.4km az=144.1.
IDC Error ellipse: s-maj=38.5km s-min=21.5km az=76.0.
ISC III 21 17 24 39.1–1.0 37.78N–.08 144.74E–.08 35 3.4b 19 3-88
IDC III 21 17 24 34.1–1.0 37.57N 145.03E 0 3.7,3.5L ¶17197713
ISCJB III 21 17 24 37.5–.85 37.84N–.08 144.71E–.06 35 3.4b,3.5L
JMA III 21 17 24 38.1–.20 37.94N 144.64E 30 4.2,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=32.8km s-min=25.2km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.2km az=10.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 21 17 27 38.6–1.0 37.03N–.06 142.76E–.09 25 3.5b 17 2-61
IDC III 21 17 27 34.1–1.1 36.67N 143.92E 0 3.7,3.7L ¶17197714
JMA III 21 17 27 56.1–.20 37.33N 141.79E 40–4 3.8,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=19.9km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 17 27 52.0–2.4 38.6N–.20 144.3E–.40 29 3.5b 6 29-74
IDC III 21 17 27 47.2–2.3 38.63N 144.38E 0 3.8,3.6 ¶17197717
ISCJB III 21 17 27 50.0–2.1 38.5N–.20 144.3E–.50 29 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 17 35 56.3–1.6 36.7N–.20 142.8E–.10 29 4.0b 18 4-78
IDC III 21 17 35 48.2–.77 35.87N 142.78E 0 3.9,3.8 ¶16480023
NEIC III 21 17 35 53.5–.58 35.87N 142.88E 35 4.4b,3.8
ISCJB III 21 17 35 55.0–1.2 36.7N–.20 142.8E–.10 29 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 21 17 36 00.5–2.4 37.9N–.20 142.3E–.10 14 9 1-62
JMA III 21 17 36 01.7–.20 37.70N 142.21E 6–3 4.0 ¶17197722
IDC III 21 17 36 02.0–4.9 37.30N 143.10E 0 3.9,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=90.6km s-min=50.9km az=14.0.
ISC III 21 17 38 19.5–.65 37.54N–.07 144.6E–.10 35 3.9b 33 5-80
NEIC III 21 17 38 15.8–4.4 37.79N 144.50E 3–27 4.4b ¶16480027
IDC III 21 17 38 15.3–.78 37.77N 144.53E 0 4.0,3.9
ISCJB III 21 17 38 17.4–.55 37.56N–.06 144.55E–.10 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 21 17 47 28.8–1.1 36.78N–.07 142.63E–.10 9 3.3b 17 2-83
NIED III 21 17 47 00 36.90N 142.50E 8 3.4W ¶17197723
ISCJB III 21 17 47 27.0–.78 36.72N–.05 142.67E–.07 9 3.5b,3.5s
IDC III 21 17 47 27.7–1.4 36.80N 142.68E 0 3.7L,3.6

JMA III 21 17 47 30.0–.40 36.93N 142.53E 17 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000°,δ78.00000°,λ170.00000°. NP2:ϕ_s338.00000°,δ81.00000°,λ12.00000°. $M_0$1.44000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.5km az=150.5.
IDC Error ellipse: s-maj=35.8km s-min=20.4km az=84.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 21 18 02 04.9–.74 37.34N–.07 142.47E–.09 21 4.4b 29 1-75
IDC III 21 18 02 02.3–1.0 37.29N 142.54E 0 3.9,3.9 **¶16462066**
ISCJB III 21 18 02 03.0–.57 37.26N–.05 142.52E–.08 21 4.2b,3.9
NEIC III 21 18 02 04.8–.45 37.49N 143.06E 35 4.5b,3.9
JMA III 21 18 02 05.0–.40 37.26N 142.23E 14 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=18.8km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.4km az=160.5.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=9.2km az=97.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 21 18 02 09.5–.60 37.77N–.09 144.53E–.08 35 4.2b 46 5-119
IDC III 21 18 02 04.6–.57 37.83N 144.60E 0 4.3,4.2 **¶16480033**
ISCJB III 21 18 02 07.2–.39 37.67N–.05 144.49E–.06 33 4.2b,3.5s
NEIC III 21 18 02 09.0–3.3 37.88N 144.56E 29–23 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=12.8km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.1km az=146.7.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.4km az=130.0.
IDC III 21 18 10 30.1–2.9 37.58N 143.01E 0 3.4,3.3b
¶17197725
IDC Error ellipse: s-maj=72.5km s-min=32.4km az=62.0.
IDC III 21 18 19 03.2–3.3 36.30N 142.22E 0 3.3,3.2b
¶17197729
IDC Error ellipse: s-maj=85.8km s-min=33.0km az=56.0.
IDC III 21 18 42 03.9–3.5 35.91N 142.46E 0 3.7,3.7L
¶17197735
IDC Error ellipse: s-maj=84.3km s-min=35.1km az=69.0.
JMA III 21 18 51 52.4–.20 37.73N 142.05E 24–4 3.1
¶602679378
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 18 55 27.6–2.1 37.22N–.05 142.36E–.06 8–12 4.0b 54 1-146
JMA III 21 18 55 26.0–.40 37.21N 142.47E 6 4.2 **¶16480050**
IDC III 21 18 55 26.8–.65 37.19N 142.44E 0 4.0,3.9
ISCJB III 21 18 55 27.4–1.4 37.18N–.04 142.50E–.05 17–10 4.0b,3.9
NEIC III 21 18 55 29.9–2.9 37.22N 142.39E 21–20 4.3b,3.9
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=16.8km s-min=13.6km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.8km az=151.2.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.7km az=118.0.
ISC III 21 19 01 18.3–.34 36.82N–.04 143.22E–.03 32–1 4.9b,4.4s 503 2-153
NIED III 21 19 01 00 36.80N 143.20E 5 5.0W,4.4s **¶600561200**
IDC III 21 19 01 13.1–.36 36.71N 143.31E 0 4.6,4.5
JMA III 21 19 01 16.0–.30 36.82N 143.18E 46 4.9,4.5
ISCJB III 21 19 01 18.8–.17 36.84N–.03 143.06E–.02 41 4.8b,4.4s
BJI III 21 19 01 18.1 37.13N 143.08E 33 5.1b,4.8b
GCMT III 21 19 01 19.3–.30 36.79N 143.19E 12 5.0W,4.8b
MOS III 21 19 01 19.7–1.3 37.21N 143.11E 33 5.1b,4.4s
NEIC III 21 19 01 19.3–.44 36.68N 143.18E 37–4 5.1b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ23.00000°,λ-82.00000°. NP2:ϕ_s198.00000°,δ67.00000°,λ-93.00000°. $M_0$3.24000×10^{16}
IDC Error ellipse: s-maj=10.5km s-min=9.8km az=107.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=172.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c33; s96,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.03±.07 $M_{\theta\theta}$0.88±.07; $M_{\phi\phi}$2.15±.06; $M_{r\theta}$0.08±.24; $M_{\theta\phi}$1.03±.05; $M_{\phi r}$1.92±.24; Best double couple: NP1:ϕ_s196.00000°,δ62.00000°,λ-102.00000°. NP2:ϕ_s39.00000°,δ30.00000°,λ-70.00000°. Principal axes: T 3.2170,Plg16.0000°,Azm294.0000°; N 0.4650,Plg10.0000°,Azm201.0000°; P -3.6780,Plg71.0000°,Azm80.0000° $M_0$3.44700×10^{16}
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=105.8.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=151.0.
ISC III 21 19 24 26.1–.61 39.62N–.05 143.66E–.05 19–2 4.7b,4.3s 241 2-118
ISCJB III 21 19 24 21.8–1.2 39.58N–.03 143.61E–.04 0–7 4.7b,4.2s **¶602680151**
JMA III 21 19 24 22.1–.40 39.57N 143.74E 13 4.6,4.2s
IDC III 21 19 24 22.9–.50 39.51N 143.63E 0 4.4,4.3
BJI III 21 19 24 25.5 39.51N 143.54E 29 4.8b,4.7s
NEIC III 21 19 24 26.7–1.7 39.55N 143.58E 24–11 4.8b,4.7s
MOS III 21 19 24 27.3–1.1 39.69N 143.58E 33 4.9b,4.7s
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.6km az=43.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=133.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.5km az=135.0.
MOS Error ellipse: s-maj=7.3km s-min=4.5km az=101.6.
ISC III 21 19 33 19.7–1.9 36.9N–.30 143.6E–.10 35 3.6b 7 4-89
IDC III 21 19 33 14.6–2.6 36.90N 143.63E 0 3.9,3.7 **¶17197741**
ISCJB III 21 19 33 18.0–1.7 36.9N–.20 143.6E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 21 19 44 41.0–.30 37.51N 142.61E 0 3.5
¶602679276
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 21 19 56 59.5–1.1 37.72N–.10 142.26E–.09 14 3.5b 13 1-58
ISCJB III 21 19 56 57.9–.92 37.70N–.09 142.37E–.09 14 3.5b **¶16480064**
IDC III 21 19 56 57.1–1.4 37.66N 142.44E 0 3.7,3.6b
JMA III 21 19 56 59.0–.30 37.71N 142.29E 14 3.8,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=9.7km az=171.0.
IDC Error ellipse: s-maj=31.0km s-min=24.5km az=128.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 21 19 57 25.5–.63 36.59N–.08 143.28E–.09 35 4.0b,4.0s 35 4-89
IDC III 21 19 57 20.7–.65 36.68N 143.30E 0 4.2,4.1 **¶17197746**
ISCJB III 21 19 57 23.1–.46 36.54N–.05 143.28E–.07 33 4.1b,3.9s
NEIC III 21 19 57 25.6–.40 36.65N 143.29E 35 4.3b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.5km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.4km az=33.8.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.9km az=147.0.
JMA III 21 20 11 50.8–.30 37.79N 143.29E 49 3.5
NIED III 21 20 11 00 37.80N 143.30E 35 3.9W **¶600561306**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ17.00000°,λ24.00000°. NP2:ϕ_s325.00000°,δ83.00000°,λ106.00000°. $M_0$7.66000×10^{14}
ISC III 21 20 22 44.8–2.5 37.66N–.06 142.0E–.10 15–12 13 1-61
IDC III 21 20 22 41.7–12 37.71N 142.73E 0 3.6,3.5b **¶602679173**
JMA III 21 20 22 46.4–.20 37.65N 142.08E 28–5 3.3,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=254.5km s-min=53.3km az=15.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 20 37 03.3–.89 38.16N–.08 144.53E–.07 35 3.7b 26 3-87
IDC III 21 20 36 57.8–1.0 37.96N 144.67E 0 3.9,3.7 **¶17197752**
ISCJB III 21 20 37 01.6–.72 38.10N–.07 144.51E–.05 33 3.7b,3.7
JMA III 21 20 37 02.0–.20 38.18N 144.43E 28 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=20.3km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.4km az=171.4.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 21 20 49 03.3–4.5 37.75N–.08 143.70E–.07 23–21 4.2b 59 2-83
IDC III 21 20 48 59.0–.68 37.63N 143.78E 0 4.2,4.0 **¶16480074**
NEIC III 21 20 49 00.7–4.0 37.62N 143.82E 11–24 4.5b,4.0
JMA III 21 20 49 02.6–.30 37.84N 143.58E 20 4.2,4.0

ISCJB III 21 20 49 02.3–1.8 37.72N–.05 143.68E–.04 32–12 4.2b,3.5s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 21 20 49 16.1–.84 37.6N–.10 143.8E–.10 35 4.6b 26 5-82
IDC III 21 20 49 11.1–1.1 37.53N 143.93E 0 4.5b,4.4 **¶17197754**
NEIC III 21 20 49 13.9–5.6 37.62N 143.80E 19–35 4.6b,4.4
ISCJB III 21 20 49 13.5–.60 37.60N–.09 143.80E–.09 33 4.5b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 21 20 57 20.8–.30 37.41N 142.06E 20–4 3.3
¶603049967
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 21 20 58 06.1–1.3 37.7N–.20 143.5E–.10 35 3.6b 8 4-69
IDC III 21 20 58 00.9–1.4 37.68N 143.50E 0 3.7,3.6 **¶17197757**
ISCJB III 21 20 58 04.0–1.1 37.7N–.20 143.5E–.10 33 4.1s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 21 15 10.5–3.2 36.50N–.07 142.46E–.08 4–19 3.6b 27 2-90
NIED III 21 21 15 00 36.60N 142.50E 8 3.7W **¶17197759**
JMA III 21 21 15 10.3–.30 36.58N 142.53E 18 3.9
IDC III 21 21 15 10.2–1.1 36.58N 142.44E 0 4.0L,3.9
ISCJB III 21 21 15 10.4–1.8 36.51N–.06 142.50E–.06 14–12 3.7b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ21.00000°,λ130.00000°. NP2:ϕ_s323.00000°,δ74.00000°,λ76.00000°. $M_0$3.80000×10^{14}
ISCJB Event type ke.
ISC III 21 21 23 15.8–.46 37.76N–.05 143.82E–.05 35 4.6b,4.1s 199 2-88
IDC III 21 21 23 10.6–.61 37.66N 143.80E 0 4.4,4.3 **¶602678983**
JMA III 21 21 23 13.9–.30 37.75N 143.65E 44 4.5,4.3
BJI III 21 21 23 13.4 38.07N 143.84E 25 4.9b,4.6b
ISCJB III 21 21 23 15.0–.28 37.88N–.03 143.67E–.03 33 4.5b,4.0s
MOS III 21 21 23 15.8–1.0 38.01N 143.67E 33 4.9b,4.0s
NEIC III 21 21 23 16.1–.25 37.75N 143.75E 35 4.7b,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=12.9km az=153.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=163.2.
MOS Error ellipse: s-maj=7.7km s-min=4.8km az=106.1.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=141.0.
IDC III 21 21 35 05.8–3.0 40.60N 145.78E 0 4.0L,3.6
¶602678954
IDC Error ellipse: s-maj=72.4km s-min=37.8km az=66.0.
JMA III 21 21 38 42.8–.30 39.66N 143.55E 0 3.7
¶602678936
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 21 21 40 25.8–.70 37.76N–.07 143.76E–.07 19 4.1b 50 2-76
IDC III 21 21 40 22.7–.80 37.65N 143.92E 0 4.0,3.8 **¶16480082**
ISCJB III 21 21 40 24.1–.44 37.73N–.05 143.72E–.04 19 3.9b,3.8
JMA III 21 21 40 26.8–.50 37.80N 143.48E 13 4.0,3.8
NEIC III 21 21 40 28.0–.41 37.71N 143.80E 35 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=17.4km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.0km az=10.7.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.3km az=139.0.
ISC III 21 21 49 27.8–1.0 37.78N–.05 143.77E–.05 26–6 4.4b,3.6s 131 2-97
IDC III 21 21 49 23.3–.62 37.65N 143.85E 0 4.3,4.2 **¶602679711**
ISCJB III 21 21 49 24.6–1.3 37.74N–.03 143.71E–.03 16–9 4.5b,3.6s
JMA III 21 21 49 25.6–.20 37.79N 143.70E 28 4.4,3.6s
NEIC III 21 21 49 28.8–.61 37.66N 143.80E 36–5 4.7b,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=16.4km s-min=13.1km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=161.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=138.0.
ISC III 21 21 54 47.0–.62 37.70N–.05 143.00E–.07 24 4.2b 53 2-69
IDC III 21 21 54 43.2–.89 37.68N 143.16E 0 3.9,3.8 **¶602679688**
ISCJB III 21 21 54 44.9–.39 37.66N–.04 143.06E–.05 24 4.1b,3.6s
JMA III 21 21 54 46.0–.40 37.67N 142.90E 20 4.0,3.6s
NEIC III 21 21 54 46.4–2.5 37.68N 143.12E 21–18 4.4b,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=16.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.3km az=26.7.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.9km az=102.0.
ISC III 21 21 58 51.7–2.1 37.73N–.05 142.28E–.06 3–12 4.4b,3.0s 110 1-146
NIED III 21 21 58 00 37.70N 142.30E 17 4.2W,3.0s **¶16462072**
IDC III 21 21 58 51.0–.59 37.72N 142.35E 0 4.3,4.2
ISCJB III 21 21 58 51.9–1.2 37.74N–.04 142.36E–.05 16–7 4.3b,3.1s
JMA III 21 21 58 52.7–.30 37.74N 142.30E 21–5 4.2,3.1s
NEIC III 21 21 58 56.4–.61 37.76N 142.38E 35–5 4.6b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ3.00000°,λ11.00000°. NP2:ϕ_s31.00000°,δ89.00000°,λ93.00000°. $M_0$2.13000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=13.4km az=125.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=5.3km az=42.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=130.0.
IDC III 21 22 12 54.0–1.4 37.44N 144.30E 0 3.7,3.7L
¶17197764
IDC Error ellipse: s-maj=38.5km s-min=30.0km az=119.0.
ISC III 21 22 30 12.4–1.1 36.3N–.20 143.9E–.10 35 3.6b 8 5-89
IDC III 21 22 30 07.1–1.1 36.27N 144.05E 0 3.8,3.5 **¶17197768**
ISCJB III 21 22 30 10.3–.91 36.2N–.20 143.91E–.10 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 22 55 51.6–1.8 37.48N–.09 142.6E–.10 10 13 1-61
NIED III 21 22 55 00 37.40N 142.70E 5 3.5W **¶17197771**
JMA III 21 22 55 50.0–.40 37.40N 142.73E 18 3.5
ISCJB III 21 22 55 50.1–1.2 37.42N–.07 142.70E–.09 10 3.7b
IDC III 21 22 56 00.4–38 36.07N 142.03E 0 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ57.00000°,λ-141.00000°. NP2:ϕ_s241.00000°,δ58.00000°,λ-40.00000°. $M_0$1.74000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.0km az=40.8.
IDC Error ellipse: s-maj=894.6km s-min=40.6km az=36.0.
ISC III 21 23 06 12.0–1.3 37.74N–.06 143.64E–.09 35 3.5b 26 2-58
NIED III 21 23 06 00 37.70N 143.50E 5 3.6W **¶17197772**
IDC III 21 23 06 06.3–1.3 37.42N 144.17E 0 3.9,3.9
JMA III 21 23 06 10.6–.20 37.66N 143.53E 37 3.7,3.9
ISCJB III 21 23 06 10.2–.85 37.72N–.05 143.64E–.07 33 3.9s,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ40.00000°,λ-81.00000°. NP2:ϕ_s203.00000°,δ51.00000°,λ-98.00000°. $M_0$2.58000×10^{14}
ISCJB Event type ke.
IDC III 21 23 11 00.3–2.9 36.33N 144.37E 0 3.7,3.6b
¶17197773
IDC Error ellipse: s-maj=81.3km s-min=29.6km az=60.0.
ISC III 21 23 13 38.7–.68 37.82N–.06 142.33E–.06 21 4.1b 43 1-146
NIED III 21 23 13 00 37.70N 142.30E 17 3.7W **¶16480096**
IDC III 21 23 13 35.7–.82 37.70N 142.41E 0 4.0,3.9b
ISCJB III 21 23 13 36.8–.47 37.73N–.05 142.43E–.05 21 4.0b,3.9b
JMA III 21 23 13 37.7–.20 37.75N 142.31E 24 4.1,3.9b
NEIC III 21 23 13 40.7–.28 37.68N 142.40E 35 4.3b,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ24.00000°,λ-119.00000°. NP2:ϕ_s210.00000°,δ69.00000°,λ-77.00000°. $M_0$4.54000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=18.5km az=94.0.

ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.7km az=173.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.2km az=137.0.
ISC III 21 23 20 14.9–.82 38.6N–.10 143.11E–.09 23 4.0b 33 3-77
IDC III 21 23 20 11.3–.92 38.53N 143.13E 0 3.9,3.8 **¶16480098**
ISCJB III 21 23 20 12.7–.50 38.56N–.06 143.11E–.09 23 3.9b,3.8
NEIC III 21 23 20 16.5–.40 38.57N 143.08E 35 4.7b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=17.8km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=8.0km az=38.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.1km az=124.0.
ISC III 21 23 35 03.7–.57 36.85N–.05 143.18E–.06 25 4.2b 57 2-146
IDC III 21 23 34 59.8–.54 36.71N 143.35E 0 4.2,4.0 **¶16480099**
ISCJB III 21 23 35 02.2–.40 36.82N–.04 143.17E–.04 25 4.1b,3.4s
JMA III 21 23 35 03.1–.30 36.83N 143.13E 42 4.1,3.4s
NEIC III 21 23 35 05.1–.31 36.71N 143.28E 35 4.2b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=13.5km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=147.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=166.0.
ISC III 21 23 59 57.8–.98 36.61N–.06 143.12E–.08 29 3.6b 26 2-89
NIED III 21 23 59 00 36.60N 143.10E 8 3.6W **¶17197775**
IDC III 21 23 59 53.2–1.0 36.51N 143.33E 0 3.7,3.5
ISCJB III 21 23 59 56.3–.72 36.57N–.04 143.12E–.06 29 3.5b,3.5
JMA III 21 23 59 57.3–.30 36.60N 143.07E 33 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ39.00000°,λ-90.00000°. NP2:ϕ_s211.00000°,δ51.00000°,λ-90.00000°. $M_0$2.42000×10^{14}
IDC Error ellipse: s-maj=28.3km s-min=23.8km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=6.2km az=16.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 22 00 05 20.6–.66 37.51N–.08 143.80E–.07 35 4.2b 49 2-118
IDC III 22 00 05 15.1–.64 37.47N 143.94E 0 4.3,4.1 **¶16480102**
ISCJB III 22 00 05 18.8–.48 37.44N–.07 143.71E–.05 33 4.2b,3.6s
NEIC III 22 00 05 20.5–.38 37.53N 143.88E 35 4.4b,3.6s
JMA III 22 00 05 37.6–.30 37.34N 142.65E 30 4.2,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=15.1km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=5.0km az=169.4.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=7.4km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 22 00 17 58.5–2.4 37.38N–.07 142.39E–.09 2–13 3.9b 26 1-89
IDC III 22 00 17 57.5–.89 37.45N 142.90E 0 3.9,3.7 **¶17197887**
JMA III 22 00 18 00.4–.20 37.44N 142.31E 0 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=21.3km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 00 26 03.6–1.6 36.35N–.07 143.2E–.10 29 3.9b 16 2-60
NIED III 22 00 26 00 36.30N 143.10E 5 3.6W **¶602684714**
IDC III 22 00 26 02.0–3.8 35.93N 143.24E 0 3.8,3.7b
ISCJB III 22 00 26 02.3–1.1 36.34N–.06 143.19E–.09 29 3.7b,3.7b
JMA III 22 00 26 04.0–.30 36.33N 143.13E 59 3.5,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ24.00000°,λ-64.00000°. NP2:ϕ_s222.00000°,δ69.00000°,λ-101.00000°. $M_0$2.49000×10^{14}
IDC Error ellipse: s-maj=106.9km s-min=27.9km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.7km az=11.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 22 00 47 56.0–1.5 37.85N–.08 143.2E–.10 19 2.9b 13 2-59
NIED III 22 00 47 00 37.80N 143.10E 8 3.5W **¶17197890**
IDC III 22 00 47 51.0–2.8 37.86N 143.76E 0 3.8L,3.8
JMA III 22 00 47 53.4–.30 37.83N 143.12E 3 3.8,3.8
ISCJB III 22 00 47 54.4–1.3 37.81N–.07 143.22E–.09 19 3.8s,3.0b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ53.00000°,λ-141.00000°. NP2:ϕ_s200.00000°,δ59.00000°,λ-44.00000°. $M_0$2.13000×10^{14}
ISCJB Event type ke.
IDC III 22 00 58 14.4–1.4 36.56N 143.87E 0 3.6,3.3
¶17197892
IDC Error ellipse: s-maj=36.9km s-min=29.9km az=99.0.
ISC III 22 01 37 53.6–1.2 36.54N–.04 142.33E–.05 28–7 4.3b,4.0s 98 1-118
IDC III 22 01 37 49.0–.64 36.47N 142.42E 0 4.3,4.2 **¶16342421**
ISCJB III 22 01 37 50.7–1.3 36.53N–.03 142.42E–.04 21–9 4.3b,3.9s
JMA III 22 01 37 51.6–.20 36.55N 142.44E 37 4.2,3.9s
NEIC III 22 01 37 54.2–.32 36.52N 142.41E 35 4.4b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=14.9km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=32.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.4km az=158.0.
JMA III 22 01 40 40.6–.30 37.80N 142.58E 13–4 4.0
¶602685191
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 22 01 52 30.0–.40 37.45N 142.68E 31 3.3
¶602685138
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC III 22 02 41 11.4–2.7 38.20N 144.72E 0 3.9,3.8b
¶17197901
IDC Error ellipse: s-maj=71.1km s-min=31.5km az=64.0.
ISC III 22 02 52 25.5–1.8 37.1N–.10 142.4E–.10 9 10 1-57
IDC III 22 02 52 23.0–3.1 37.10N 142.67E 0 3.4,3.4L **¶602684996**
JMA III 22 02 52 28.8–.20 37.03N 142.21E 31–4 3.3,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=75.6km s-min=35.4km az=55.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 22 03 02 46.3–2.7 37.74N 144.60E 0 3.8,3.7b
¶17197906
IDC Error ellipse: s-maj=70.2km s-min=31.0km az=64.0.
IDC III 22 03 04 36.5–3.1 38.00N 144.79E 0 3.6,3.5
¶17197907
IDC Error ellipse: s-maj=76.3km s-min=31.8km az=59.0.
ISC III 22 03 18 37.0–.88 36.4N–.10 143.8E–.10 35 3.6b 11 5-89
IDC III 22 03 18 32.0–.83 36.46N 144.00E 0 3.9,3.7 **¶17197909**
ISCJB III 22 03 18 34.9–.70 36.37N–.09 143.7E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 04 12 09.7–1.0 36.48N–.04 142.52E–.06 26–6 4.5b 112 2-90
IDC III 22 04 12 06.0–.61 36.43N 142.52E 0 4.5,4.3 **¶600562133**
ISCJB III 22 04 12 07.3–1.4 36.46N–.03 142.50E–.05 20–9 4.4b,4.3
JMA III 22 04 12 08.3–.20 36.48N 142.50E 65 4.4,4.3
NEIC III 22 04 12 11.1–.30 36.48N 142.45E 35 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=13.8km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.1km az=28.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.3km az=158.0.
IDC III 22 04 17 08.0–1.3 36.83N 142.15E 0 3.6,3.5
¶602685270
IDC Error ellipse: s-maj=30.3km s-min=29.9km az=125.0.
ISC III 22 04 29 47.8–2.2 39.88N–.05 143.53E–.07 5–12 3.9b 50 1-73
NIED III 22 04 29 00 39.90N 143.40E 11 4.2W **¶16450716**
IDC III 22 04 29 46.6–.78 39.81N 143.67E 0 4.0,3.9
NEIC III 22 04 29 50.0–3.9 39.88N 143.62E 19–24 4.1b,3.9
JMA III 22 04 29 52.0–.40 39.92N 143.37E 26 3.6,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ39.00000°,λ42.00000°. NP2:ϕ_s34.00000°,δ65.00000°,λ121.00000°. $M_0$1.92000×10^{15}
IDC Error ellipse: s-maj=19.6km s-min=17.1km az=106.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.1km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.

ISC III 22 05 15 12.7–1.0 37.2N–.10 142.45E–.09 9 3.6b 12 1-89
JMA III 22 05 15 10.3–.30 37.27N 142.50E 0 4.0 **¶17197930**
ISCJB III 22 05 15 10.9–.80 37.1N–.10 142.53E–.09 9 3.7b
IDC III 22 05 15 11.2–.97 37.08N 142.62E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=8.4km az=22.7.
IDC Error ellipse: s-maj=26.9km s-min=22.1km az=75.0.
JMA III 22 05 28 08.5–.60 37.83N 144.39E 0 4.0
¶602684503
JMA Error ellipse: s-maj=5.6km s-min=3.5km az=-1.0.
JMA III 22 05 30 54.3–.20 36.87N 143.10E 60 3.5
¶602684498
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 05 32 56.5–.80 37.91N–.07 142.58E–.06 14 3.4b 23 1-89
JMA III 22 05 32 57.0–.40 38.09N 142.69E 14 4.2 **¶17197933**
IDC III 22 05 33 02.6–4.7 38.04N 142.72E 56–44 3.5,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=27.9km s-min=19.2km az=98.0.
ISC III 22 05 55 04.2–2.0 36.7N–.10 142.1E–.10 35 3.4b 9 1-57
IDC III 22 05 54 52.5–2.7 37.50N 142.76E 0 3.4,3.3L **¶17197934**
ISCJB III 22 05 55 02.6–1.6 36.65N–.09 142.1E–.10 35 3.3b,3.3L
JMA III 22 05 55 04.9–.30 36.65N 141.89E 51 3.3,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=69.3km s-min=31.9km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=12.8km az=147.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 22 06 06 39.1–.30 39.50N 143.14E 10–4 3.5
¶602684427
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 22 06 08 45.0–.73 36.87N–.05 143.15E–.07 25 3.8b 38 2-89
IDC III 22 06 08 41.0–.73 36.74N 143.30E 0 4.0,3.9 **¶600562237**
ISCJB III 22 06 08 43.5–.53 36.85N–.04 143.16E–.05 25 3.8b,3.9
JMA III 22 06 08 44.7–.20 36.85N 143.16E 45 4.1,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=18.7km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.8km az=140.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 06 25 17.5–1.7 37.5N–.10 143.2E–.10 24 4.0b 12 2-58
IDC III 22 06 25 12.7–2.7 37.37N 143.54E 0 3.9,3.8b **¶17197938**
ISCJB III 22 06 25 16.6–1.5 37.45N–.09 143.1E–.10 24 3.8b,3.8b
JMA III 22 06 25 17.6–.50 37.51N 142.80E 0 3.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=70.4km s-min=32.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=12.0km az=157.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 22 06 28 29.8–.41 36.52N–.05 142.48E–.05 36–3 4.8b,4.5s 270 1-146
NIED III 22 06 28 00 36.50N 142.60E 8 4.7W,4.5s **¶17197942**
BJI III 22 06 28 25.6 36.58N 142.65E 30 5.1b,4.8b
JMA III 22 06 28 26.3–.30 36.45N 142.59E 57 4.7,4.8b
ISCJB III 22 06 28 27.4–.94 36.49N–.03 142.46E–.03 29–6 4.7b,4.5s
MOS III 22 06 28 29.6–.98 36.81N 142.38E 33 5.1b,4.5s
IDC III 22 06 28 29.9–2.0 36.41N 142.55E 44–19 4.4,4.3
NEIC III 22 06 28 31.0–.84 36.68N 142.45E 37–7 4.9b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ41.00000°,λ97.00000°. NP2:ϕ_s14.00000°,δ49.00000°,λ84.00000°. $M_0$1.34000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=154.6.
MOS Error ellipse: s-maj=7.8km s-min=5.3km az=117.4.
IDC Error ellipse: s-maj=15.0km s-min=11.9km az=116.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=150.0.
ISC III 22 07 04 58.6–.39 36.51N–.06 142.55E–.04 15 4.8b,4.7s 278 2-151
IDC III 22 07 04 55.1–.55 36.39N 142.57E 0 4.6,4.6s **¶600562304**
BJI III 22 07 04 56.2 36.50N 142.50E 11 5.1b,4.8b
JMA III 22 07 04 57.9–.30 36.45N 142.64E 60 4.7,4.8b
ISCJB III 22 07 04 57.2–.20 36.51N–.03 142.49E–.03 15 4.8s,4.7b
NEIC III 22 07 04 58.2–2.3 36.50N 142.48E 12–14 4.8b,4.7b
MOS III 22 07 05 00.2–.80 36.79N 142.42E 27 5.0b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=13.1km az=144.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.9km az=158.8.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.5km az=143.0.
MOS Error ellipse: s-maj=7.1km s-min=4.9km az=112.5.
ISC III 22 07 18 46.5–.33 37.22N–.03 144.05E–.03 16–1 6.3b,6.2s 2404 2-163
NIED III 22 07 18 00 37.10N 144.20E 8 6.3W,6.2s **¶602684288**
JMA III 22 07 18 40.8–.20 37.09N 144.25E 28 6.7,6.2s
IDC III 22 07 18 42.4–.31 37.10N 144.13E 0 6.2,6.2s
BJI III 22 07 18 44.3 37.25N 144.05E 20 6.7s,6.6b
ISCJB III 22 07 18 44.5–.07 37.26N–.01 144.07E–.01 15 6.2s,6.1b
MOS III 22 07 18 45.4–1.1 37.35N 144.05E 20 6.5b,6.3s
GCMT III 22 07 18 45.4–.00 37.11N 144.00E 12–0 6.4W,6.3s
NEIC III 22 07 18 45.4–.08 37.24N 144.00E 11 6.5W,6.4W
NEIC III 22 07 18 47.0–.00 37.05N 144.16E 15 6.5W,6.4W
NEIC III 22 07 19 07.0–.00 37.70N 144.08E 21 6.5W,6.4W
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ42.00000°,λ-99.00000°. NP2:ϕ_s41.00000°,δ49.00000°,λ-82.00000°. $M_0$3.43000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=8.8km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.3km az=164.9.
MOS Error ellipse: s-maj=6.3km s-min=4.1km az=105.1.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c336; s145,c627;Duration: 3s9 Moment tensor: Scale 10^{18} Nm; M_{rr}-4.82±.02 $M_{\theta\theta}$1.86±.02; $M_{\phi\phi}$2.96±.02; $M_{r\theta}$0.14±.04; $M_{\theta\phi}$2.57±.01; $M_{\phi r}$1.61±.05; Best double couple: NP1:ϕ_s209.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s49.00000°,δ38.00000°,λ-74.00000°. Principal axes: T 5.2190,Plg8.0000°,Azm308.0000° ; N -0.0580,Plg10.0000°,Azm216.0000°; P -5.1610,Plg77.0000°,Azm75.0000° $M_0$5.19000×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=147.0. Felt [III] at Tokyo. Also felt at Misawa, Otawara, Yokosuka and Zama. Recorded [4 JMA] in Chiba. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. $M_0$1.20000×10^{19} Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}-2.26 $M_{\theta\theta}$0.49 $M_{\phi\phi}$1.77 $M_{r\theta}$-0.71 $M_{\theta\phi}$2.43 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s55.00000°,δ54.00000°,λ-66.00000°. NP2:ϕ_s197.00000° ,δ42.00000°,λ-120.00000°. Principal axes: T 3.7100,Plg6.0000°,Azm128.0000° ; N -1.2400,Plg20.0000°,Azm220.0000°; P -2.4700,Plg69.0000°,Azm21.0000° $M_0$3.30000×10^{18}
NEIC Event type se. Moment Tensor Solution. s21 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.43 $M_{\theta\theta}$2.11 $M_{\phi\phi}$3.32 $M_{r\theta}$2.15 $M_{\theta\phi}$2.17 $M_{\phi r}$-0.95 Best double couple: NP1:ϕ_s236.00000° ,δ51.00000°,λ-65.00000°. NP2:ϕ_s20.00000°,δ45.00000°,λ-117.00000°. Principal axes: T 5.0000,Plg3.0000°,Azm308.0000°; N 1.2300,Plg18.0000°,Azm40.0000° ; P -6.2300,Plg70.0000°,Azm209.0000° $M_0$5.70000×10^{18}
NEIC Event type se. Moment Tensor Solution. s94 Moment tensor: Scale 10^{18}Nm; M_{rr}-6.81 $M_{\theta\theta}$2.61 $M_{\phi\phi}$4.20 $M_{r\theta}$5.15 $M_{\theta\phi}$2.91 $M_{\phi r}$-3.55 Best double couple: NP1:ϕ_s246.00000° ,δ54.00000°,λ-52.00000°. NP2:ϕ_s12.00000°,δ50.00000°,λ-131.00000°. Principal axes: T 6.4000,Plg3.0000°,Azm310.0000°; N 4.0000,Plg30.0000°,Azm41.0000° ; P -10.4000,Plg60.0000°,Azm216.0000° $M_0$8.40000×10^{18}
IDC III 22 07 26 43.9–2.6 37.33N 142.56E 0 4.4,4.4L
¶17197948
IDC Error ellipse: s-maj=58.9km s-min=27.7km az=74.0.
IDC III 22 07 27 25.7–6.8 36.24N 143.30E 0 4.4,4.2
¶17197951
IDC Error ellipse: s-maj=250.3km s-min=25.2km az=66.0.
ISC III 22 07 31 14.1–1.0 37.16N–.06 143.80E–.08 35 4.0b 24 2-150
IDC III 22 07 31 09.2–1.1 36.97N 144.16E 0 4.0,3.9 **¶16449007**
NEIC III 22 07 31 10.6–.69 36.96N 144.16E 10 4.5b,3.9
ISCJB III 22 07 31 12.7–.59 37.17N–.04 143.83E–.05 33 4.0b,3.9
JMA III 22 07 31 13.3–.20 37.14N 143.76E 53 4.1,3.9

ISC Event type se.
IDC Error ellipse: s-maj=28.1km s-min=20.3km az=87.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=10.1km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=141.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 07 31 49.2–1.6**	**36.8N–.20**	**143.7E–.20**	**35**	**4.1b**	**7**	**4-70**
IDC	III	22 07 31 43.0–1.8	36.90N	144.05E	0	4.1,4.1b		**¶17197954**
ISCJB	III	22 07 31 46.6–1.4	36.8N–.10	143.8E–.20	33	4.0b,4.1b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 07 38 21.5–.58**	**36.97N–.09**	**144.20E–.09**	**35**	**4.4b**	**41**	**5-150**
IDC	III	22 07 38 16.4–.92	36.89N	144.18E	0	4.2,4.0		**¶16449011**
NEIC	III	22 07 38 17.7–.27	36.96N	144.28E	10	4.7b,4.0		
ISCJB	III	22 07 38 19.1–.40	36.91N–.06	144.17E–.07	33	4.4b,4.0		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

JMA	**III**	**22 07 39 56.4–.20**	**37.18N**	**142.32E**	**49**	**3.6**		
								¶602684274

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**22 07 43 33.4–.30**	**37.08N**	**143.80E**	**44**	**4.3**		
								¶602684272

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 07 49 08.8–.58**	**37.17N–.05**	**143.73E–.07**	**35**	**4.4b**	**57**	**2-150**
IDC	III	22 07 49 03.2–.69	36.97N	143.93E	0	4.2,4.0		**¶16449012**
ISCJB	III	22 07 49 06.7–.36	37.06N–.04	143.74E–.04	33	4.4b,4.0		
JMA	III	22 07 49 07.6–.20	37.18N	143.67E	50	4.2,4.0		
NEIC	III	22 07 49 08.8–1.1	36.96N	143.90E	36–10	4.9b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=16.3km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=2.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.9km az=91.0.

ISC	**III**	**22 07 51 01.7–.94**	**37.1N–.20**	**144.73E–.10**	**26**	**3.9b**	**13**	**5-76**
IDC	III	22 07 50 57.8–.79	37.08N	144.59E	0	4.5,4.5s		**¶17197955**
ISCJB	III	22 07 50 59.2–.74	37.1N–.10	144.75E–.09	26	4.5s,3.9b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 07 52 52.8–.54**	**37.10N–.06**	**143.79E–.06**	**35**	**4.3b**	**55**	**2-150**
IDC	III	22 07 52 47.0–.91	36.98N	144.04E	0	4.1,3.9		**¶16449013**
ISCJB	III	22 07 52 50.7–.35	37.02N–.05	143.77E–.04	33	4.2b,3.9		
JMA	III	22 07 52 51.5–.30	37.15N	143.64E	37	4.3,3.9		
NEIC	III	22 07 52 51.9–2.3	36.97N	143.98E	30–16	4.5b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=18.9km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.5km az=4.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=107.0.

ISC	**III**	**22 07 55 49.4–1.2**	**37.7N–.10**	**142.8E–.10**	**24**	**3.8b**	**12**	**1-63**
IDC	III	22 07 55 45.3–1.2	37.69N	143.16E	0	4.0,4.0s		**¶600562343**
ISCJB	III	22 07 55 47.1–.94	37.7N–.10	142.89E–.09	24	3.9s,3.7b		
JMA	III	22 07 55 48.2–.40	37.64N	142.84E	32	3.9,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=37.2km s-min=24.4km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=9.0km az=18.7.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.

IDC	**III**	**22 08 02 08.4–1.3**	**36.53N**	**143.84E**	**0**	**3.8,3.6b**		
								¶17197957

IDC Error ellipse: s-maj=40.6km s-min=25.9km az=106.0.

ISC	**III**	**22 08 12 52.1–.73**	**37.33N–.08**	**143.20E–.07**	**10**	**4.3b**	**26**	**2-148**
JMA	III	22 08 12 51.1–.90	37.40N	143.33E	1	4.2		**¶600562368**
IDC	III	22 08 12 51.5–.82	37.10N	143.87E	0	4.0,3.8		
NEIC	III	22 08 12 53.7–3.9	37.08N	143.88E	13–24	4.7b,3.8		

ISC Event type se.
JMA Error ellipse: s-maj=5.6km s-min=6.2km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=18.6km az=110.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=6.7km az=114.0.

ISC	**III**	**22 08 15 14.5–1.1**	**37.5N–.20**	**144.1E–.10**	**35**	**3.5b**	**10**	**5-76**
IDC	III	22 08 15 09.2–.93	37.41N	144.26E	0	3.8,3.6		**¶17197959**
ISCJB	III	22 08 15 12.2–.87	37.4N–.10	144.03E–.10	33	3.6b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 08 32 07.8–1.2**	**38.1N–.20**	**144.4E–.20**	**35**	**3.7b**	**7**	**25-118**
IDC	III	22 08 32 02.5–1.2	38.05N	144.50E	0	3.9,3.6		**¶17197962**
ISCJB	III	22 08 32 05.8–1.1	38.0N–.20	144.4E–.20	33	3.8b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 08 44 29.2–1.0**	**38.73N–.07**	**144.15E–.08**	**14**	**3.6b**	**30**	**2-63**
IDC	III	22 08 44 26.7–1.1	38.56N	144.27E	0	4.4,4.4s		**¶17197963**
ISCJB	III	22 08 44 27.9–.72	38.75N–.04	144.14E–.06	14	3.5b,4.4s		
JMA	III	22 08 44 30.1–.20	38.73N	144.12E	41	4.0,4.4s		

ISC Event type ke.
IDC Error ellipse: s-maj=29.3km s-min=20.8km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.9km az=34.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**22 08 47 59.0–1.6**	**36.92N–.07**	**143.6E–.10**	**35**	**3.6b**	**21**	**2-61**
ISCJB	III	22 08 47 57.0–.84	36.95N–.03	143.59E–.07	33	3.5b		**¶17197964**
IDC	III	22 08 47 57.8–1.4	36.32N	143.54E	0	3.7,3.5		
JMA	III	22 08 47 58.6–.30	36.93N	143.49E	56	3.6,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=7.3.
IDC Error ellipse: s-maj=37.9km s-min=22.1km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**22 09 10 56.2–.97**	**39.47N–.07**	**143.36E–.07**	**11**	**3.5b**	**23**	**1-72**
JMA	III	22 09 10 53.8–.30	39.41N	143.57E	16	3.9		**¶17197969**
IDC	III	22 09 10 54.8–1.2	39.51N	143.34E	0	3.7,3.5		
ISCJB	III	22 09 10 54.1–.74	39.41N–.08	143.51E–.07	11	3.5b,3.5		

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**22 09 17 35.3–2.9**	**36.30N**	**143.64E**	**0**	**3.5,3.4b**		
								¶17197971

IDC Error ellipse: s-maj=84.7km s-min=29.7km az=59.0.

IDC	**III**	**22 09 40 52.7–2.7**	**36.56N**	**143.23E**	**0**	**3.6,3.5**		
								¶17197974

IDC Error ellipse: s-maj=78.9km s-min=26.8km az=61.0.

ISC	**III**	**22 09 44 30.0–.38**	**39.86N–.03**	**143.54E–.03**	**19–1**	**6.3s,5.9b**	**1948**	**1-158**
NIED	III	22 09 44 00	39.80N	143.80E	11	6.3W,5.9b		**¶17197975**
JMA	III	22 09 44 25.4–.50	39.92N	143.66E	0–4	6.5,5.9b		
BJI	III	22 09 44 25.0	39.85N	143.55E	10	6.6s,6.5		
ISCJB	III	22 09 44 25.9–.54	39.81N–.01	143.56E–.02	5–3	6.3s,5.9b		
IDC	III	22 09 44 26.9–.33	39.86N	143.56E	0	6.2,6.2		
GCMT	III	22 09 44 28.4–.10	39.84N	143.81E	13–0	6.3W,6.2		
NEIC	III	22 09 44 29.0–.00	40.26N	143.84E	15	6.3W,6.2		
MOS	III	22 09 44 29.2–.92	39.97N	143.49E	22	6.4s,6.1b		
NEIC	III	22 09 44 29.3–.08	39.85N	143.44E	13	6.4W,6.3		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ42.00000°,λ36.00000°. NP2:ϕ_s38.00000°,δ67.00000°,λ126.00000°. $M_0$3.01000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.7km az=151.3.
IDC Error ellipse: s-maj=11.3km s-min=9.3km az=91.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c293; s138,c563;Duration: 3ŝ5 Moment tensor: Scale 10^{18} Nm; M_{rr}2.14±.02 $M_{\theta\theta}$0.05±.01; $M_{\phi\phi}$-2.20±.02; $M_{r\theta}$1.12±.04; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$2.86±.07; Best double couple: NP1:ϕ_s20.00000°,δ72.00000°,λ94.00000°. NP2:ϕ_s186.00000° ,δ18.00000°,λ77.00000°. Principal axes: T 3.7190,Plg63.0000°,Azm297.0000° ; N 0.1610,Plg4.0000°,Azm199.0000°; P -3.8850,Plg27.0000°,Azm107.0000° $M_0$3.80200×10^{18}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}1.50 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-1.80 $M_{r\theta}$2.20 $M_{\theta\phi}$0.00 $M_{\phi r}$4.70 Best double couple: NP1:ϕ_s23.00000°,δ82.00000° ,λ99.00000°. NP2:ϕ_s156.00000°,δ12.00000°,λ43.00000°. Principal axes: T 5.5000,Plg52.0000°,Azm303.0000°; N 0.0000,Plg8.0000°,Azm202.0000° ; P -5.5000,Plg36.0000°,Azm105.0000° $M_0$5.00000×10^{18}
MOS Error ellipse: s-maj=5.8km s-min=3.6km az=101.9.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=143.0. Felt at Ichinoseki, Kawasaki, Misawa, Otawara and Tokyo. Recorded [4 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s43 Moment tensor: Scale 10^{18}Nm; M_{rr}2.45 $M_{\theta\theta}$-0.38 $M_{\phi\phi}$-2.07 $M_{r\theta}$0.66 $M_{\theta\phi}$-0.35 $M_{\phi r}$2.60 Best double couple: NP1:ϕ_s190.00000°,δ20.00000°,λ87.00000°. NP2: ϕ_s13.00000°,δ70.00000°,λ91.00000°. Principal axes: T 3.6900,Plg65.0000°,Azm286.0000° ; N -0.3200,Plg1.0000°,Azm193.0000°; P -3.3700,Plg25.0000°,Azm102.0000° $M_0$3.50000×10^{18}

ISC	**III**	**22 10 01 13.7–.54**	**37.11N–.05**	**143.84E–.06**	**35**	**4.0b**	**62**	**2-150**
IDC	III	22 10 01 08.3–.58	37.03N	144.04E	0	4.2,4.1		**¶16480201**
JMA	III	22 10 01 12.4–.30	37.16N	143.77E	50	4.3,4.1		
ISCJB	III	22 10 01 12.0–.41	37.15N–.04	143.81E–.04	33	4.1b,4.1		
NEIC	III	22 10 01 14.1–.45	37.13N	143.94E	35	4.1b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=13.8km az=152.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=163.9.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.6km az=167.0.

ISC	**III**	**22 10 06 35.7–.72**	**37.12N–.10**	**143.99E–.08**	**35**	**3.9b**	**26**	**5-88**
IDC	III	22 10 06 30.6–.71	37.13N	144.04E	0	4.1,3.9		**¶17197980**
ISCJB	III	22 10 06 33.5–.54	37.08N–.07	143.96E–.07	33	3.8b,3.9		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 10 17 24.6–.83**	**39.63N–.10**	**143.61E–.08**	**11**	**3.6b**	**26**	**1-87**
IDC	III	22 10 17 22.5–1.1	39.55N	143.74E	0	3.7,3.6		**¶600562512**
ISCJB	III	22 10 17 23.3–.70	39.62N–.09	143.66E–.05	11	3.5b,3.6		
JMA	III	22 10 17 26.6–.30	39.68N	143.50E	21	3.8,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=22.6km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=5.9km az=174.6.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**22 10 25 25.3–.67**	**36.32N–.06**	**142.54E–.07**	**15**	**3.9b**	**27**	**1-146**
IDC	III	22 10 25 23.3–.92	36.26N	142.66E	0	4.1,3.9		**¶16480207**
ISCJB	III	22 10 25 23.7–.53	36.30N–.04	142.58E–.05	15	3.9b,3.9		
JMA	III	22 10 25 25.6–.10	36.39N	142.55E	79	3.7,3.9		
NEIC	III	22 10 25 28.4–.56	36.28N	142.57E	35	4.1b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=18.8km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.9km az=4.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=10.7km az=175.0.

IDC	**III**	**22 10 30 40.9–2.7**	**36.05N**	**142.77E**	**0**	**3.7,3.4**		
								¶17197983

IDC Error ellipse: s-maj=263.1km s-min=24.7km az=110.0.

IDC	**III**	**22 10 30 59.7–1.7**	**37.23N**	**144.16E**	**0**	**3.7,3.5**		
								¶17197986

IDC Error ellipse: s-maj=39.0km s-min=30.2km az=82.0.

ISC	**III**	**22 10 46 19.0–4.1**	**37.10N–.07**	**144.04E–.08**	**2–25**	**4.1b**	**32**	**3-88**
IDC	III	22 10 46 18.9–.61	37.04N	144.15E	0	4.2,4.1		**¶16480214**
JMA	III	22 10 46 23.7–.20	37.18N	143.79E	42	4.6,4.1		
NEIC	III	22 10 46 24.3–.40	37.09N	144.08E	35	4.2b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=14.3km az=126.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.1km az=145.0.

ISC	**III**	**22 10 55 10.2–.83**	**36.87N–.09**	**143.6E–.10**	**35**	**4.0b**	**23**	**4-145**
IDC	III	22 10 55 05.9–.65	36.88N	143.61E	0	4.2,4.0		**¶16480218**
ISCJB	III	22 10 55 09.0–.53	36.83N–.08	143.52E–.08	33	4.1b,4.0		
NEIC	III	22 10 55 11.1–.64	36.95N	143.55E	35	4.6b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.4km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=8.7km az=151.1.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=12.7km az=147.0.

ISC	**III**	**22 11 02 00.9–1.1**	**36.39N–.07**	**143.17E–.08**	**29**	**3.6b**	**18**	**2-89**
IDC	III	22 11 01 57.3–.96	36.10N	143.51E	0	4.1,3.8		**¶17197993**
ISCJB	III	22 11 01 59.6–.80	36.37N–.06	143.16E–.07	29	3.8b,3.8		
JMA	III	22 11 02 00.9–.20	36.40N	143.13E	66	3.9,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=28.7km s-min=23.0km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.9km az=30.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**22 11 21 37.4–.44**	**39.73N–.03**	**143.31E–.03**	**23–2**	**5.5b,5.4s**	**1130**	**1-165**
NIED	III	22 11 21 00	39.80N	143.40E	20	5.4W,5.4s		**¶16342204**
IDC	III	22 11 21 33.7–.46	39.70N	143.33E	0	5.3,5.3s		
JMA	III	22 11 21 35.1–.30	39.76N	143.39E	17–5	5.6,5.3s		
ISCJB	III	22 11 21 36.1–.68	39.72N–.02	143.18E–.02	21–4	5.4s,5.3b		
BJI	III	22 11 21 36.2	39.77N	143.09E	25	5.9b,5.7s		
MOS	III	22 11 21 38.6–.90	39.91N	143.14E	33	5.7b,5.4s		
NEIC	III	22 11 21 39.3–1.1	39.73N	143.11E	31–7	5.5b,5.3s		
GCMT	III	22 11 21 39.3–.30	39.90N	143.34E	26–1	5.6W,5.3s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ23.00000°,λ52.00000°. NP2:ϕ_s34.00000°,δ72.00000°,λ105.00000°. $M_0$1.60000×10^{17}
IDC Error ellipse: s-maj=13.0km s-min=11.5km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=153.5.
MOS Error ellipse: s-maj=5.9km s-min=3.6km az=102.6.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=147.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s101,c166; Duration: 1ŝ5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.91±.11 $M_{\theta\theta}$-0.25±.06; $M_{\phi\phi}$-1.67±.07; $M_{r\theta}$1.01±.14; $M_{\theta\phi}$-0.31±.03; $M_{\phi r}$2.43±.18; Best double couple: NP1:ϕ_s20.00000°,δ73.00000° ,λ94.00000°. NP2:ϕ_s186.00000°,δ18.00000°,λ76.00000°. Principal axes: T 3.3060,Plg62.0000°,Azm297.0000°; N -0.2190,Plg4.0000°,Azm199.0000° ; P -3.0920,Plg28.0000°,Azm107.0000° $M_0$3.19900×10^{17}

IDC	**III**	**22 11 26 36.8–1.4**	**37.94N**	**143.57E**	**0**	**4.1,3.9b**		
								¶17197997

IDC Error ellipse: s-maj=56.4km s-min=26.9km az=122.0.

ISC	**III**	**22 12 01 21.6–.51**	**36.89N–.03**	**143.25E–.03**	**6–2**	**5.5b,5.5s**	**1245**	**2-164**
NIED	III	22 12 01 00	36.80N	143.20E	5	5.5W,5.5s		**¶600562606**
BJI	III	22 12 01 19.5	37.03N	143.15E	5	5.8s,5.7		
IDC	III	22 12 01 19.7–.34	36.80N	143.33E	0	5.2,5.2s		
ISCJB	III	22 12 01 21.0–.09	36.92N–.02	143.26E–.01	10	5.5s,5.4b		
GCMT	III	22 12 01 22.4–.10	36.83N	143.29E	12	5.6W,5.4b		
JMA	III	22 12 01 22.0–.20	36.84N	143.24E	56	5.6,5.4b		
NEIC	III	22 12 01 22.4–.13	36.87N	143.19E	10	5.6b,5.4s		
MOS	III	22 12 01 22.7–1.1	37.05N	143.17E	21	5.7b,5.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ37.00000°,λ-103.00000°. NP2:ϕ_s225.00000°,δ54.00000°,λ-80.00000°. $M_0$2.24000×10^{17}
IDC Error ellipse: s-maj=11.0km s-min=8.9km az=92.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.6km az=165.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s75,c127; s128,c289;Duration: 1ŝ5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.80±.04 $M_{\theta\theta}$1.12±.04; $M_{\phi\phi}$1.68±.04; $M_{r\theta}$-0.04±.13; $M_{\theta\phi}$1.30±.03; $M_{\phi r}$-0.10±.14; Best double couple: NP1:ϕ_s38.00000° ,δ46.00000°,λ-91.00000°. NP2:ϕ_s220.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 2.7320,Plg1.0000°,Azm129.0000°; N 0.0700,Plg1.0000°,Azm39.0000° ; P -2.8020,Plg89.0000°,Azm280.0000° $M_0$2.76700×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=150.0.
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=99.5.

ISC	**III**	**22 12 12 22.9–.72**	**39.0N–.10**	**144.4E–.10**	**19**	**4.1b**	**21**	**5-75**
IDC	III	22 12 12 20.0–.64	38.90N	144.31E	0	4.3,4.1		**¶17198000**
ISCJB	III	22 12 12 21.0–.59	38.88N–.09	144.3E–.10	19	4.1b,4.1		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**22 12 23 39.3–.67**	**36.46N–.10**	**144.47E–.07**	**35**	**4.2b,4.2s**	**36**	**5-119**
IDC	III	22 12 23 34.2–.60	36.50N	144.55E	0	4.4s,4.4		**¶16462113**

ISCJB III 22 12 23 37.1–.49 36.40N–.07 144.47E–.06 33 4.3s,4.1b
NEIC III 22 12 23 39.3–3.5 36.45N 144.50E 34–24 4.6b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.7km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=5.9km az=160.6.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.4km az=123.0.
JMA III 22 12 25 56.7–.40 36.99N 142.44E 16 3.9
¶602683736
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
JMA III 22 12 29 02.8–.40 38.85N 144.10E 1 3.5
¶602683731
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 22 12 31 18.5–1.2 36.5N–.10 143.8E–.10 35 3.5b 8 5-61
IDC III 22 12 31 13.2–1.3 36.44N 144.13E 0 3.8L,3.7 **¶17198001**
ISCJB III 22 12 31 15.6–1.1 36.6N–.10 143.8E–.10 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 12 31 59.9–1.3 36.87N–.08 143.15E–.09 25 3.6b 15 2-61
IDC III 22 12 31 56.8–1.2 36.58N 143.47E 0 3.8,3.5 **¶17198004**
ISCJB III 22 12 31 57.8–.99 36.83N–.06 143.18E–.07 25 3.6b,3.5
JMA III 22 12 31 58.4–.40 36.81N 143.16E 34 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=25.8km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.9km az=40.6.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
JMA III 22 12 36 16.2–.50 37.16N 143.75E 44 4.0
¶602683696
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 22 12 42 41.8–.43 36.79N–.05 143.11E–.05 25 4.5b 141 2-146
IDC III 22 12 42 36.8–.53 36.70N 143.28E 0 4.4,4.3 **¶600562643**
JMA III 22 12 42 40.7–.30 36.88N 143.12E 67 4.1,4.3
ISCJB III 22 12 42 40.0–.23 36.76N–.03 143.08E–.03 25 4.4b,4.3
NEIC III 22 12 42 43.4–.94 36.66N 143.09E 41–9 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=107.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.0km az=158.5.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.6km az=52.0.
ISC III 22 12 46 31.1–1.0 36.6N–.20 143.28E–.10 35 3.7b 9 4-74
IDC III 22 12 46 26.0–.97 36.58N 143.44E 0 3.9,3.6 **¶17198006**
ISCJB III 22 12 46 29.0–.87 36.5N–.20 143.26E–.09 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 12 48 55.6–.73 36.89N–.05 142.02E–.08 19 3.9b 28 1-90
IDC III 22 12 48 52.6–.80 36.88N 142.02E 0 4.1,4.0 **¶600562646**
ISCJB III 22 12 48 53.7–.50 36.84N–.04 142.04E–.06 19 4.0b,4.0
JMA III 22 12 48 55.3–.20 36.89N 142.08E 69 4.0,4.0
NEIC III 22 12 48 57.8–.50 36.91N 141.89E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=17.4km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.9km az=11.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.3km az=143.0.
ISC III 22 12 56 25.3–.51 37.12N–.04 143.98E–.04 27–3 5.2b,4.5s 1146 2-159
NIED III 22 12 56 00 37.10N 143.80E 8 4.9W,4.5s **¶16342434**
IDC III 22 12 56 20.8–.35 37.06N 144.10E 0 5.1,5.1
BJI III 22 12 56 23.7 37.48N 144.07E 22 5.3b,5.0b
GCMT III 22 12 56 24.8–.40 37.23N 144.03E 19–1 5.1W,5.0b
NEIC III 22 12 56 24.8–1.0 37.07N 143.98E 22–7 5.2b,5.0b
ISCJB III 22 12 56 25.5–.10 37.12N–.02 143.95E–.02 39 5.2b,4.5s
JMA III 22 12 56 25.2–.30 37.12N 143.82E 55 4.9,4.5s
MOS III 22 12 56 25.3–.79 37.27N 143.92E 33 5.4b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ41.00000°,λ-118.00000°. NP2:ϕ_s54.00000°,δ55.00000°,λ-68.00000°. $M_0$2.21000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.0km az=107.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s77,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.70±.38 $M_{\theta\theta}$2.22±.22; $M_{\phi\phi}$3.48±.24; $M_{r\theta}$0.30±.53; $M_{\theta\phi}$1.89±.11; $M_{\phi r}$0.68±.49; Best double couple: NP1:ϕ_s214.00000°,δ49.00000°,λ-92.00000°. NP2:ϕ_s37.00000°,δ41.00000°,λ-88.00000°. Principal axes: T 4.8930,Plg4.0000°,Azm306.0000°; N 0.8610,Plg1.0000°,Azm216.0000°; P -5.7540,Plg86.0000°,Azm107.0000° $M_0$5.32300×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=148.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=166.5.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.4km az=108.3.
ISC III 22 13 03 32.5–2.1 36.5N–.20 143.2E–.30 29 3.8b 6 4-60
IDC III 22 13 03 28.0–2.6 36.61N 143.33E 0 3.9,3.9 **¶17198007**
ISCJB III 22 13 03 30.3–1.9 36.4N–.20 143.2E–.30 29 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 13 05 11.9–.74 36.62N–.08 143.26E–.09 29 3.9b 23 4-89
IDC III 22 13 05 07.5–.73 36.64N 143.30E 0 4.1,4.0 **¶16447671**
ISCJB III 22 13 05 09.8–.55 36.57N–.06 143.25E–.07 29 3.9b,4.0
NEIC III 22 13 05 12.7–.40 36.59N 143.25E 35 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=16.7km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=7.6km az=148.9.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=8.0km az=15.0.
ISC III 22 13 06 03.7–.67 39.85N–.07 143.65E–.06 6 4.1b 45 1-87
IDC III 22 13 06 00.4–.69 39.32N 143.73E 0 4.2,4.0 **¶16447672**
ISCJB III 22 13 06 01.9–.51 39.85N–.05 143.76E–.05 6 4.1b,3.0s
JMA III 22 13 06 03.1–.50 39.87N 143.73E 9 4.5,3.0s
NEIC III 22 13 06 03.9–3.7 39.41N 143.73E 19–23 4.5b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.8km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.0km az=153.4.
JMA Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=7.5km az=145.0.
JMA III 22 13 06 21.0–.40 36.81N 143.08E 43 3.9
¶602683638
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 22 13 20 11.7–.76 40.02N–.04 143.64E–.04 12–4 4.8b,4.8s 294 1-87
ISCJB III 22 13 20 08.4–.95 39.93N–.03 143.62E–.03 0–5 4.8b,4.7s **¶602683612**
JMA III 22 13 20 09.8–.40 40.00N 143.64E 4–4 4.9,4.7s
IDC III 22 13 20 10.0–.52 39.91N 143.62E 0 4.6,4.5
BJI III 22 13 20 11.4 39.95N 143.39E 17 5.1b,4.9s
MOS III 22 13 20 12.7–.92 39.99N 143.64E 33 4.9b,4.9s
NEIC III 22 13 20 13.8–1.2 39.94N 143.51E 24–8 4.8b,4.9s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.6km az=140.9.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=14.3km s-min=11.3km az=108.0.
MOS Error ellipse: s-maj=7.2km s-min=4.8km az=104.9.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=127.0.
ISC III 22 13 20 51.9–.61 39.95N–.09 143.58E–.09 6 4.6b,4.3s 47 5-87
ISCJB III 22 13 20 50.1–.43 39.90N–.06 143.52E–.08 6 4.6s,4.4b **¶16342436**
IDC III 22 13 20 51.0–.54 39.91N 143.54E 0 4.5s,4.5
NEIC III 22 13 20 54.3–2.8 39.95N 143.53E 22–19 4.9b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=7.2km az=140.4.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=111.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.0km az=110.0.
ISC III 22 13 26 17.4–.40 36.85N–.05 143.21E–.04 25 4.8b,4.5s 314 2-91
IDC III 22 13 26 13.1–.58 36.74N 143.37E 0 4.5,4.4 **¶16342437**
MOS III 22 13 26 16.8–1.5 36.89N 143.28E 33 5.1b,4.4
ISCJB III 22 13 26 16.1–.18 36.86N–.03 143.15E–.02 25 4.8b,4.5s
JMA III 22 13 26 17.2–.30 36.87N 143.13E 48 4.7,4.5s
BJI III 22 13 26 17.3 36.96N 143.14E 30 5.1b,4.9s
NEIC III 22 13 26 19.1–.79 36.83N 143.15E 38–7 4.8b,4.9s

ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=12.6km az=139.0.
MOS Error ellipse: s-maj=7.4km s-min=5.1km az=113.4.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.4km az=166.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=149.0.
ISC III 22 13 38 09.8–.66 39.95N–.06 143.65E–.07 16 4.2b 50 1-74
ISCJB III 22 13 38 08.0–.47 39.94N–.04 143.72E–.06 16 4.0b **¶602683029**
IDC III 22 13 38 07.0–.70 39.92N 143.87E 0 4.1,4.0
JMA III 22 13 38 09.8–.30 39.99N 143.60E 22 4.3,4.0
NEIC III 22 13 38 10.3–2.2 39.93N 143.78E 21–15 4.7b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.8km az=137.7.
IDC Error ellipse: s-maj=16.9km s-min=14.7km az=126.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.6km az=118.0.
ISC III 22 13 45 59.8–.71 37.61N–.08 143.6E–.10 35 3.8b 23 4-88
IDC III 22 13 45 55.0–.70 37.74N 143.66E 0 4.0,3.9 **¶600562718**
NEIC III 22 13 45 56.7–6.0 37.70N 143.71E 12–37 4.5b,3.9
ISCJB III 22 13 45 57.6–.54 37.56N–.06 143.60E–.09 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 22 13 59 29.9–1.1 37.1N–.10 143.0E–.10 10 4.0b 18 2-89
IDC III 22 13 59 28.3–1.1 37.09N 143.16E 0 4.0,3.9 **¶602682997**
NEIC III 22 13 59 33.6–.81 37.05N 142.93E 35 4.2b,3.9
JMA III 22 13 59 37.2–.20 37.61N 141.82E 23–2 3.5,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=34.4km s-min=20.7km az=62.0.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=14.4km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 22 13 59 44.0–.30 40.22N 143.29E 2–3 3.8
¶602682996
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 14 04 48.9–1.6 36.3N–.10 142.2E–.10 19 3.4b 14 1-75
IDC III 22 14 04 41.9–1.2 36.98N 143.23E 0 3.6,3.5L **¶17198010**
JMA III 22 14 04 58.5–.20 35.91N 141.70E 22–2 3.6,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=26.9km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 22 14 10 46.6–6.7 36.74N 142.83E 0 3.5,3.5b
¶17198011
IDC Error ellipse: s-maj=157.6km s-min=31.6km az=158.0.
ISC III 22 14 11 10.5–2.2 39.07N–.09 144.3E–.10 19 3.4b 16 2-59
IDC III 22 14 11 04.2–2.8 38.96N 144.78E 0 3.6,3.5 **¶17198012**
JMA III 22 14 11 11.4–.20 39.08N 144.26E 49 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=69.8km s-min=32.9km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 22 14 15 10.6–2.8 40.38N–.06 143.37E–.10 3–16 3.6b 23 1-67
IDC III 22 14 15 09.6–2.0 40.41N 143.51E 0 3.7,3.6 **¶17198014**
JMA III 22 14 15 09.8–.30 40.33N 143.47E 2–3 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=55.0km s-min=25.3km az=77.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 14 27 51.7–1.0 37.1N–.20 144.6E–.10 26 3.7b 8 5-73
IDC III 22 14 27 47.7–.94 37.03N 144.70E 0 3.8,3.6 **¶17198018**
ISCJB III 22 14 27 49.6–.87 37.0N–.10 144.6E–.20 26 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 14 31 29.2–.41 37.98N–.05 142.66E–.05 14 4.4b 107 1-150
ISCJB III 22 14 31 27.9–.25 38.00N–.03 142.77E–.03 14 4.3b **¶602682919**
JMA III 22 14 31 30.6–.20 38.11N 142.69E 20–3 4.2
NEIC III 22 14 31 33.6–.62 38.09N 142.58E 42–5 4.5b
IDC III 22 14 31 33.1–2.7 38.04N 142.64E 38–22 4.2,4.2
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.8km az=168.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.4km az=136.0.
IDC Error ellipse: s-maj=12.5km s-min=11.3km az=116.0.
JMA III 22 14 36 34.6–.20 39.32N 143.01E 13–4 3.7
¶602682909
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC III 22 14 42 35.5–10 36.99N 143.85E 0 3.5,3.2
¶17198021
IDC Error ellipse: s-maj=222.3km s-min=49.6km az=26.0.
ISC III 22 14 43 44.2–.52 38.53N–.04 144.73E–.06 29 4.3b 102 2-87
IDC III 22 14 43 40.3–.61 38.45N 144.89E 0 4.3,4.2 **¶16350008**
ISCJB III 22 14 43 42.7–.32 38.48N–.03 144.67E–.03 29 4.7s,4.2b
JMA III 22 14 43 43.1–.30 38.54N 144.72E 52 4.7,4.2b
NEIC III 22 14 43 45.3–.38 38.48N 144.74E 35 4.5b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=12.6km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=143.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.1km az=121.0.
IDC III 22 14 56 03.6–4.4 36.22N 142.60E 0 3.5,3.4
¶16462093
IDC Error ellipse: s-maj=81.8km s-min=44.0km az=34.0.
IDC III 22 15 10 05.4–2.8 37.33N 143.42E 0 4.1,4.0b
¶17198028
IDC Error ellipse: s-maj=71.2km s-min=32.3km az=63.0.
ISC III 22 15 38 04.8–2.5 36.48N–.08 143.8E–.10 35 19 2-46
JMA III 22 15 38 04.8–.30 36.60N 143.66E 42 4.1 **¶17198034**
IDC III 22 15 38 06.8–4.2 36.26N 143.28E 0 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=61.9km s-min=31.2km az=108.0.
ISC III 22 15 44 30.4–.79 37.10N–.08 143.2E–.10 25 3.8b 19 4-77
IDC III 22 15 44 27.0–.81 37.21N 143.11E 0 4.0,3.9 **¶16449021**
ISCJB III 22 15 44 28.2–.60 37.06N–.05 143.19E–.10 25 3.8b,3.9
NEIC III 22 15 44 29.2–5.3 37.17N 143.17E 16–34 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=15.7km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.2km az=18.2.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.5km az=84.0.
ISC III 22 16 04 34.4–1.2 36.62N–.06 142.03E–.09 19 3.4b 15 1-57
IDC III 22 16 04 31.6–1.6 36.55N 142.08E 0 3.5,3.5 **¶600562869**
ISCJB III 22 16 04 32.5–1.0 36.55N–.06 142.13E–.10 19 3.3b,3.5
JMA III 22 16 04 33.5–.20 36.73N 142.22E 44 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=24.3km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.4km az=160.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 16 18 44.1–1.2 37.73N–.08 142.63E–.09 21 3.8b 17 1-62
IDC III 22 16 18 40.5–1.3 37.61N 142.79E 0 3.9,3.9b **¶17198038**
JMA III 22 16 18 41.8–.50 37.63N 142.76E 22 4.0,3.9b
ISCJB III 22 16 18 41.5–.88 37.66N–.08 142.84E–.09 21 3.8b,3.9b
ISC Event type ke.
ISCJB Event type ke.
IDC III 22 16 38 33.2–2.5 39.40N 143.13E 0 3.6,3.5b
¶17198040
IDC Error ellipse: s-maj=67.9km s-min=32.2km az=66.0.
ISC III 22 16 47 12.6–1.1 37.0N–.10 143.9E–.10 35 3.7b 9 5-61
IDC III 22 16 47 07.6–1.1 37.08N 144.06E 0 4.0,3.9 **¶17198042**
ISCJB III 22 16 47 10.4–.93 37.03N–.10 143.8E–.10 33 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 16 56 33.6–.63 38.95N–.07 143.33E–.07 20 4.1b 68 2-145
IDC III 22 16 56 30.8–.67 39.08N 143.44E 0 4.1,4.1 **¶16350011**
ISCJB III 22 16 56 31.9–.49 39.04N–.05 143.43E–.07 20 4.1b,4.1

NEIC III 22 16 56 36.1–.41 39.11N 143.34E 35 4.4b,4.1
JMA III 22 16 56 55.8–.20 37.62N 141.86E 26–3 3.9,4.1
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=5.3km az=42.7.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.4km az=129.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 17 04 09.1–1.6 39.58N–.09 143.29E–.09 11 3.3b 17 1-44
JMA III 22 17 04 06.2–.20 39.49N 143.53E 16 3.7 **¶17198043**
ISCJB III 22 17 04 06.2–1.1 39.47N–.09 143.51E–.08 11 3.5s,3.2b
IDC III 22 17 04 08.3–5.0 39.66N 143.17E 0 3.7,3.7s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=9.1km az=179.8.
IDC Error ellipse: s-maj=95.4km s-min=34.4km az=131.0.
IDC III 22 17 04 45.7–11 37.03N 144.69E 0 3.9,3.8b
¶17198044
IDC Error ellipse: s-maj=248.0km s-min=48.3km az=26.0.
ISC III 22 17 20 49.8–.87 39.45N–.07 143.57E–.07 11 3.7b 27 1-73
NIED III 22 17 20 00 39.50N 143.60E 14 3.8W **¶17198046**
IDC III 22 17 20 47.5–1.1 39.32N 143.67E 0 3.8,3.7
ISCJB III 22 17 20 48.4–.70 39.45N–.06 143.63E–.06 11 3.6b,2.9s
JMA III 22 17 20 50.8–.20 39.48N 143.57E 25 3.8,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S173.00000°,δ40.00000°,λ60.00000°. NP2:ϕ_S30.00000°,δ56.00000°,λ112.00000°. $M_0$5.74000×10^{14}
IDC Error ellipse: s-maj=26.8km s-min=20.1km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.9km az=166.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 22 17 26 44.1–1.7 39.3N–.20 143.7E–.20 11 3.6b 7 5-60
IDC III 22 17 26 42.4–1.7 39.31N 143.77E 0 3.6,3.5 **¶17198047**
ISCJB III 22 17 26 42.3–1.5 39.2N–.10 143.7E–.30 11 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 17 38 20.0–1.8 35.7N–.20 142.4E–.30 56 3.4b 7 3-76
IDC III 22 17 38 11.7–2.0 35.77N 142.70E 0 3.7,3.6b **¶17198048**
ISCJB III 22 17 38 18.7–1.5 35.6N–.20 142.2E–.30 56 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 18 33 26.3–6.6 37.0N–.70 143E–1.0 35 3.5b 6 29-61
IDC III 22 18 33 16.7–6.3 37.47N 144.67E 0 3.6,3.5 **¶17198053**
ISC Event type ke.
IDC Error ellipse: s-maj=227.1km s-min=21.2km az=66.0.
ISC III 22 18 35 57.8–1.0 37.39N–.06 142.40E–.09 21 3.5b 18 1-69
NIED III 22 18 35 00 37.50N 142.30E 11 3.9W **¶17198055**
IDC III 22 18 35 54.6–1.1 37.32N 142.55E 0 3.8,3.7
ISCJB III 22 18 35 56.0–.81 37.33N–.06 142.40E–.08 21 3.6b,3.7
JMA III 22 18 35 57.2–.20 37.46N 142.26E 8–3 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S52.00000°,δ6.00000°,λ-88.00000°. NP2:ϕ_S230.00000°,δ84.00000°,λ-90.00000°. $M_0$6.85000×10^{14}
IDC Error ellipse: s-maj=30.5km s-min=21.0km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.5km az=147.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 22 18 47 23.0–.68 34.65N–.06 142.92E–.07 35 3.8b 53 2-81
NIED III 22 18 47 00 34.70N 142.90E 8 3.9W **¶16480291**
IDC III 22 18 47 17.7–.83 34.62N 143.03E 0 3.9,3.8
JMA III 22 18 47 21.1–.30 34.66N 142.93E 63 3.7,3.8
ISCJB III 22 18 47 21.5–.42 34.64N–.05 142.87E–.04 35 3.8b,3.1s
NEIC III 22 18 47 23.1–.32 34.61N 142.95E 35 4.3b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S33.00000°,δ39.00000°,λ-69.00000°. NP2:ϕ_S187.00000°,δ54.00000°,λ-106.00000°. $M_0$7.06000×10^{14}
IDC Error ellipse: s-maj=20.4km s-min=18.3km az=122.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.5km az=6.5.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.6km az=180.0.
ISC III 22 19 03 14.8–1.3 37.96N–.07 144.02E–.08 35 3.5b 24 2-62
ISCJB III 22 19 03 13.5–.88 38.01N–.05 143.97E–.06 33 3.5b **¶600563064**
JMA III 22 19 03 14.9–.30 37.99N 143.88E 41 3.6
IDC III 22 19 03 18.6–2.5 37.00N 141.70E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=7.0km az=137.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=69.5km s-min=28.3km az=59.0.
ISC III 22 19 26 02.0–.45 40.29N–.04 143.96E–.04 23–2 4.7b,4.0s 250 2-146
ISCJB III 22 19 25 58.9–.94 40.28N–.03 143.96E–.03 13–6 4.6b,4.1s **¶602683418**
JMA III 22 19 26 00.6–.20 40.28N 143.97E 34 4.4,4.1s
MOS III 22 19 26 02.3–1.1 40.38N 143.93E 33 5.0b,4.1s
BJI III 22 19 26 03.0 40.31N 143.58E 30 5.1b,4.8b
IDC III 22 19 26 03.1–.58 40.23N 144.04E 32–3 4.2,4.2
NEIC III 22 19 26 04.7–.79 40.14N 143.85E 46–7 4.7b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.2km az=139.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=104.5.
IDC Error ellipse: s-maj=15.3km s-min=11.1km az=152.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.8km az=146.0.
JMA III 22 19 48 59.5–.20 37.53N 142.68E 1 3.7
¶602683372
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 22 19 53 43.9–1.4 37.13N 144.36E 0 3.6L,3.5
¶17198060
IDC Error ellipse: s-maj=37.7km s-min=30.8km az=103.0.
ISC III 22 20 01 35.1–1.2 36.62N–.06 143.23E–.09 35 3.5b 16 2-61
IDC III 22 20 01 31.0–1.2 36.46N 143.60E 0 3.8,3.7L **¶17198062**
ISCJB III 22 20 01 33.6–.92 36.61N–.06 143.21E–.07 33 3.6s,3.6b
JMA III 22 20 01 35.5–.30 36.76N 143.14E 78 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=22.7km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.6km az=138.5.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
IDC III 22 20 07 58.6–4.1 35.15N 142.76E 0 3.6,3.4L
¶17198063
IDC Error ellipse: s-maj=124.5km s-min=30.6km az=58.0.
ISC III 22 20 26 59.7–.82 37.19N–.07 142.53E–.07 9 3.7b 24 1-89
JMA III 22 20 26 58.5–.40 37.30N 142.51E 3 4.0 **¶17198064**
ISCJB III 22 20 26 58.0–.61 37.17N–.06 142.58E–.06 9 3.6b
IDC III 22 20 26 58.2–.80 37.07N 142.61E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.3km az=18.1.
IDC Error ellipse: s-maj=23.8km s-min=17.3km az=112.0.
IDC III 22 20 31 14.0–2.4 38.66N 145.06E 0 3.6,3.4
¶600563162
IDC Error ellipse: s-maj=68.2km s-min=24.0km az=64.0.
ISC III 22 20 34 40.8–.55 39.65N–.07 143.48E–.05 11 4.5b,3.8s 115 1-87
JMA III 22 20 34 37.5–.20 39.72N 143.71E 9 4.4,3.8s **¶602684031**
ISCJB III 22 20 34 38.8–.32 39.62N–.05 143.57E–.04 11 4.4b,3.8s
IDC III 22 20 34 39.2–.69 39.62N 143.46E 0 4.4,4.2
BJI III 22 20 34 39.9 39.64N 143.38E 17 4.9b,4.6b
NEIC III 22 20 34 45.0–.66 39.67N 143.42E 40–5 4.6b,4.6b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.1km az=163.5.
IDC Error ellipse: s-maj=18.0km s-min=15.2km az=116.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=137.0.
ISC III 22 20 40 53.5–1.1 37.1N–.20 143.2E–.20 35 3.5b 5 4-63
IDC III 22 20 40 48.6–1.1 36.97N 143.48E 0 3.6,3.4 **¶17198066**
ISCJB III 22 20 40 51.3–.98 37.0N–.20 143.3E–.20 33 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 20 52 15.2–.96 36.2N–.20 143.38E–.10 35 4.0b 15 4-81
IDC III 22 20 52 09.9–2.9 36.25N 143.66E 0 3.9,3.8b **¶16480306**
ISCJB III 22 20 52 12.9–.63 36.2N–.10 143.5E–.10 33 4.2b,3.6s
NEIC III 22 20 52 16.7–3.5 36.24N 143.26E 51–32 4.5b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=84.1km s-min=26.2km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=12.3km az=27.8.
NEIC Event type se. Error ellipse: s-maj=23.2km s-min=21.0km az=101.0.
ISC III 22 21 13 43.1–.91 39.38N–.09 143.35E–.07 11 3.5b 24 1-73
IDC III 22 21 13 41.0–1.1 39.27N 143.37E 0 3.8,3.6 **¶17198070**
ISCJB III 22 21 13 41.3–.70 39.33N–.08 143.45E–.06 11 3.6b,3.6
JMA III 22 21 13 43.5–.20 39.41N 143.40E 23 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=19.5km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.9km az=3.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 21 14 34.0–.99 39.62N–.09 143.51E–.08 11 3.9b 21 1-72
ISCJB III 22 21 14 32.3–.73 39.69N–.08 143.64E–.07 11 3.8b,3.1s **¶17198073**
IDC III 22 21 14 32.3–1.2 39.65N 143.62E 0 4.0,3.9
JMA III 22 21 14 33.5–.10 39.73N 143.48E 0 4.5,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.1km az=169.2.
IDC Error ellipse: s-maj=27.9km s-min=21.1km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 22 21 17 17.5–2.9 38.74N 144.82E 0 3.7,3.5
¶17198074
IDC Error ellipse: s-maj=68.3km s-min=32.5km az=66.0.
IDC III 22 21 20 01.5–3.3 37.30N 143.19E 0 3.5,3.4b
¶17198075
IDC Error ellipse: s-maj=80.0km s-min=34.5km az=56.0.
JMA III 22 21 21 21.6–.20 39.40N 143.37E 32 3.5
¶602683968
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 21 25 38.2–.70 37.63N–.06 142.79E–.07 24 3.7b 27 1-89
JMA III 22 21 25 33.9–.20 37.66N 142.71E 0 4.2 **¶17198076**
IDC III 22 21 25 34.5–.74 37.61N 142.89E 0 3.9,3.8
ISCJB III 22 21 25 36.2–.56 37.61N–.05 142.79E–.06 24 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 21 32 14.5–.56 37.97N–.06 142.72E–.06 14 4.3b 99 1-82
NIED III 22 21 32 00 37.90N 142.60E 20 4.2W **¶16350020**
IDC III 22 21 32 12.3–.76 38.02N 142.84E 0 4.2,4.1
ISCJB III 22 21 32 12.5–.34 37.97N–.04 142.82E–.05 14 4.2b,3.3s
JMA III 22 21 32 13.2–.50 37.95N 142.60E 3–5 4.3,3.3s
NEIC III 22 21 32 15.7–1.7 38.02N 142.82E 21–12 4.5b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S241.00000°,δ7.00000°,λ112.00000°. NP2:ϕ_S39.00000°,δ84.00000°,λ87.00000°. $M_0$2.63000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=14.3km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=5.1km az=151.4.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=126.0.
ISC III 22 21 34 33.6–.56 35.79N–.07 142.16E–.07 23 4.0b 45 3-90
IDC III 22 21 34 30.6–.71 35.87N 142.21E 0 4.0,3.9 **¶16480317**
ISCJB III 22 21 34 32.1–.37 35.78N–.05 142.12E–.05 23 4.2b,3.9
NEIC III 22 21 34 35.9–.33 35.83N 142.19E 35 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=16.4km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=6.3km az=161.8.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=8.0km az=178.0.
ISC III 22 21 47 57.0–1.2 37.23N–.08 142.3E–.10 9 3.6b 12 1-61
ISCJB III 22 21 47 54.9–.94 37.12N–.06 142.4E–.10 9 3.6b **¶17198078**
IDC III 22 21 47 54.9–1.5 37.19N 142.59E 0 3.8,3.8
JMA III 22 21 47 57.4–.10 37.32N 142.28E 3–2 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=8.6km az=160.8.
IDC Error ellipse: s-maj=36.3km s-min=21.8km az=84.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 22 22 29 49.0–4.4 38.60N 144.89E 0 3.6,3.4
¶602443823
IDC Error ellipse: s-maj=91.6km s-min=41.0km az=45.0.
ISC III 22 22 30 36.5–.47 37.95N–.05 142.58E–.06 14 4.5b 97 1-145
JMA III 22 22 30 34.6–.30 37.98N 142.62E 5–3 4.5 **¶602683201**
ISCJB III 22 22 30 34.7–.30 37.96N–.04 142.67E–.04 14 4.4b
NEIC III 22 22 30 39.7–.24 38.01N 142.64E 35 4.6b
IDC III 22 22 30 41.3–2.2 37.94N 142.55E 52–19 4.3,4.1
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.7km az=17.4.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=153.0.
IDC Error ellipse: s-maj=14.6km s-min=12.5km az=129.0.
ISC III 22 22 51 36.5–.55 36.99N–.04 142.38E–.05 19–2 4.8b,4.6s 139 2-146
NIED III 22 22 51 00 37.00N 142.40E 11 4.4W,4.6s **¶602683165**
IDC III 22 22 51 33.0–.59 36.99N 142.40E 0 4.3,4.2
JMA III 22 22 51 35.5–.30 37.08N 142.42E 45 4.7,4.2
ISCJB III 22 22 51 35.7–1.2 36.98N–.03 142.36E–.03 24–8 4.7s,4.6b
BJI III 22 22 51 35.9 36.74N 142.42E 32 5.2b,4.9s
NEIC III 22 22 51 39.1–.84 36.94N 142.31E 38–8 4.9b,4.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S51.00000°,δ41.00000°,λ-90.00000°. NP2:ϕ_S231.00000°,δ49.00000°,λ-90.00000°. $M_0$4.83000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=14.2km az=144.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=145.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=6.3km az=110.0.
JMA III 22 23 11 51.7–.20 38.65N 144.21E 46 3.7
¶602683147
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 22 23 16 03.8–.73 38.40N–.06 143.96E–.07 14 3.9b 35 2-88
IDC III 22 23 16 01.4–.78 38.27N 144.08E 0 4.0,3.8 **¶17198086**
ISCJB III 22 23 16 03.3–.60 38.54N–.04 143.94E–.05 14 3.9b,3.8
JMA III 22 23 16 06.0–.30 38.43N 143.81E 30 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.3km s-min=18.6km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.6km az=143.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 22 23 23 37.3–.97 37.7N–.10 142.8E–.10 21 3.4b 11 4-145
IDC III 22 23 23 34.4–.94 37.74N 142.68E 0 3.7,3.6L **¶600563289**
ISCJB III 22 23 23 35.1–.82 37.7N–.10 142.8E–.10 21 3.5b,3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 23 36 24.3–4.1 37.2N–.10 142.3E–.10 2–23 3.5b 16 1-89
ISCJB III 22 23 36 23.3–2.8 37.11N–.08 142.52E–.08 13–18 3.6b **¶600563306**
IDC III 22 23 36 23.9–1.3 36.94N 142.05E 0 3.8,3.6
JMA III 22 23 36 24.7–.40 37.27N 142.46E 12 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=10.1km az=22.3.
IDC Error ellipse: s-maj=34.0km s-min=30.0km az=47.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 22 23 42 17.7–1.4 39.61N–.07 143.65E–.08 11 3.6b 26 1-60
ISCJB III 22 23 42 16.2–.96 39.62N–.06 143.79E–.08 11 3.7b **¶17198093**
JMA III 22 23 42 17.0–.30 39.59N 143.73E 17 3.7
IDC III 22 23 42 20.2–2.7 39.78N 143.15E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.3km az=40.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=70.2km s-min=26.6km az=71.0.
JMA III 23 00 00 08.3–.20 37.51N 142.54E 0 3.8
¶602688292
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC III 23 00 07 28.1–1.0 39.0N–.20 144.8E–.20 35 4.5b 6 6-72
IDC III 23 00 07 23.0–1.1 38.86N 145.00E 0 5.0L,4.9 **¶602443836**
ISCJB III 23 00 07 25.7–.99 39.0N–.20 144.8E–.20 33 4.6b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 00 55 04.1–.79 36.8N–.10 144.01E–.08 35 4.0b 34 5-89
IDC III 23 00 54 58.6–.75 36.83N 144.17E 0 4.1,3.9 **¶16480344**
ISCJB III 23 00 55 02.2–.49 36.82N–.08 144.05E–.08 33 4.0b,3.9
NEIC III 23 00 55 02.6–4.2 36.84N 144.15E 25–29 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=18.3km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=9.1km az=167.8.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=9.5km az=91.0.
ISC III 23 00 57 28.5–.56 36.37N–.07 142.41E–.07 15 4.1b,3.9s 56 1-146
IDC III 23 00 57 25.9–.63 36.27N 142.52E 0 4.2,4.0 **¶602688374**
ISCJB III 23 00 57 26.6–.38 36.26N–.06 142.44E–.06 15 4.2b,3.8s
NEIC III 23 00 57 31.3–.29 36.25N 142.48E 35 4.6b,3.8s
JMA III 23 00 57 31.9–.30 37.03N 142.39E 56 4.2,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=16.5km s-min=16.2km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.3km az=16.4.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=197.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 23 01 33 21.8–2.6 36.43N 144.51E 0 3.5,3.4
¶17198106
IDC Error ellipse: s-maj=77.0km s-min=29.1km az=65.0.
ISC III 23 02 17 09.7–.67 39.62N–.06 143.65E–.06 11 3.8b 38 1-87
ISCJB III 23 02 17 08.0–.52 39.60N–.04 143.69E–.06 11 3.7b,3.0s **¶16462136**
JMA III 23 02 17 08.9–.20 39.58N 143.78E 37 4.2,3.0s
IDC III 23 02 17 14.6–2.6 39.48N 143.60E 51–24 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.5km az=43.7.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=13.8km az=120.0.
ISC III 23 02 23 20.4–.82 37.28N–.09 142.73E–.08 24 3.6b 16 2-91
IDC III 23 02 23 17.4–.77 37.06N 143.45E 0 3.9,3.7 **¶17198110**
JMA III 23 02 23 39.7–.10 37.39N 141.28E 33–1 2.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=18.5km az=110.0.
ISC III 23 02 32 06.3–.63 38.01N–.05 144.46E–.07 35 3.9b 53 2-149
ISCJB III 23 02 32 04.5–.47 37.99N–.04 144.41E–.04 33 3.9b,3.0s **¶16462137**
JMA III 23 02 32 05.3–.40 38.02N 144.39E 47 4.8,3.0s
IDC III 23 02 32 08.1–3.2 37.89N 144.47E 53–29 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=154.0.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=20.0km s-min=16.3km az=121.0.
ISC III 23 03 00 19.3–.75 37.65N–.08 142.55E–.07 21 4.2b 35 1-89
JMA III 23 03 00 15.2–.30 37.66N 142.62E 0 4.2 **¶602687783**
ISCJB III 23 03 00 17.6–.53 37.69N–.05 142.69E–.06 21 4.1b,3.9s
NEIC III 23 03 00 20.5–3.1 37.65N 142.74E 30–22 4.5b,3.9s
IDC III 23 03 00 22.6–2.6 37.59N 142.64E 48–24 4.1,4.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.4km az=139.6.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=8.7km az=126.0.
IDC Error ellipse: s-maj=20.6km s-min=16.2km az=117.0.
ISC III 23 03 21 17.0–1.3 37.68N–.08 142.21E–.08 24 3.4b 12 1-63
ISCJB III 23 03 21 15.9–1.1 37.69N–.08 142.31E–.08 24 3.4b **¶17198116**
JMA III 23 03 21 15.5–.30 37.65N 142.22E 8–5 3.5
IDC III 23 03 21 17.8–1.2 38.18N 142.51E 0 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.6km az=1.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=41.0km s-min=24.7km az=129.0.
ISC III 23 03 24 06.8–.36 38.01N–.04 144.33E–.04 35 4.8b,3.9s 638 2-153
NIED III 23 03 24 00 38.90N 142.40E 35 4.4W,3.9s **¶602687734**
IDC III 23 03 24 01.4–.46 37.87N 144.31E 0 4.7,4.6
NEIC III 23 03 24 03.4–.14 37.94N 144.25E 10 4.9b,4.6
BJI III 23 03 24 04.1 38.19N 144.02E 7 4.9b,4.7b
ISCJB III 23 03 24 05.5–.15 38.03N–.03 144.18E–.02 33 4.7b,3.9s
MOS III 23 03 24 06.2–.97 38.17N 144.17E 33 4.9b,3.9s
JMA III 23 03 24 27.4–.20 38.86N 142.36E 43–3 4.2,3.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ18.00000°,λ-102.00000°. NP2:ϕ_s302.00000°,δ72.00000°,λ-86.00000°. $M_0$5.10000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.3km az=134.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.6km az=158.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.2km az=166.8.
MOS Error ellipse: s-maj=6.7km s-min=4.8km az=108.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 23 03 38 30.7–1.3 37.75N–.09 143.46E–.10 35 3.6b 22 2-62
NIED III 23 03 38 00 37.70N 143.50E 5 3.7W **¶17198117**
IDC III 23 03 38 24.3–.95 37.58N 143.70E 0 3.8L,3.7
ISCJB III 23 03 38 27.9–.71 37.72N–.05 143.55E–.07 33 3.6b,3.7
JMA III 23 03 38 28.0–.20 37.71N 143.48E 31 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ23.00000°,λ-58.00000°. NP2:ϕ_s13.00000°,δ71.00000°,λ-103.00000°. $M_0$3.52000×10^{14}
IDC Error ellipse: s-maj=27.3km s-min=19.5km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.8km az=42.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 23 03 41 48.0–.57 36.01N–.05 143.34E–.07 35 3.9b 46 2-146
NIED III 23 03 41 00 36.10N 143.30E 5 3.9W **¶16450719**
IDC III 23 03 41 42.9–.62 36.03N 143.52E 0 4.1,4.0L
NEIC III 23 03 41 43.8–.46 35.90N 143.51E 10 4.4b,4.0L
ISCJB III 23 03 41 46.3–.45 36.07N–.05 143.31E–.05 33 3.9b,3.1s
JMA III 23 03 41 46.8–.40 36.12N 143.29E 85 3.7,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ22.00000°,λ-81.00000°. NP2:ϕ_s215.00000°,δ68.00000°,λ-94.00000°. $M_0$7.10000×10^{14}
IDC Error ellipse: s-maj=17.7km s-min=14.6km az=137.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.7km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.3km az=167.6.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 23 03 43 13.5–.69 36.12N–.08 142.47E–.08 18 4.1b 36 1-90
NIED III 23 03 43 00 36.20N 142.50E 5 4.0W **¶16450720**
ISCJB III 23 03 43 11.2–.50 36.04N–.06 142.52E–.06 18 4.1b,3.4s
JMA III 23 03 43 13.0–.40 36.19N 142.49E 75 3.7,3.4s
NEIC III 23 03 43 14.2–.52 35.76N 142.51E 35 4.3b,3.4s
IDC III 23 03 43 14.4–3.3 35.63N 142.43E 42–29 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ43.00000°,λ67.00000°. NP2:ϕ_s26.00000°,δ51.00000°,λ110.00000°. $M_0$1.15000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.8km az=14.5.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=10.4km az=51.0.
IDC Error ellipse: s-maj=20.7km s-min=18.2km az=91.0.
ISC III 23 04 11 18.6–1.1 37.99N–.09 144.11E–.08 35 3.5b 19 2-62
IDC III 23 04 11 14.4–.92 37.52N 145.34E 0 3.7,3.6L **¶17198122**
ISCJB III 23 04 11 16.3–.79 37.98N–.07 144.15E–.06 33 3.5b,3.6L
JMA III 23 04 11 16.5–.30 38.13N 143.88E 0 3.8,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=19.9km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.0km az=13.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 23 04 17 44.4–.77 37.0N–.10 142.14E–.09 19 3.9b 30 3-146
IDC III 23 04 17 41.9–.71 37.20N 142.26E 0 4.0,3.9 **¶16450722**
ISCJB III 23 04 17 42.9–.61 37.10N–.09 142.13E–.07 19 3.9b,3.9
NEIC III 23 04 17 46.0–3.4 37.08N 142.17E 29–24 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.3km s-min=15.8km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=6.8km az=155.3.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=9.1km az=139.0.
ISC III 23 04 37 37.0–3.4 37.03N–.06 142.34E–.09 3–19 3.4b 25 1-61
IDC III 23 04 37 36.3–2.0 36.87N 142.61E 0 3.6,3.6 **¶17198125**
JMA III 23 04 37 36.8–.30 37.04N 142.34E 6 3.8,3.6
ISCJB III 23 04 37 38.0–1.5 36.97N–.05 142.36E–.07 20–10 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 05 02 23.0–1.4 38.5N–.20 144.3E–.20 29 3.7b 6 5-59
IDC III 23 05 02 18.7–1.4 38.54N 144.40E 0 3.7,3.7L **¶17198127**
ISCJB III 23 05 02 20.9–1.3 38.5N–.20 144.4E–.20 29 3.6b,3.7L
ISC Event type ke.
ISCJB Event type ke.
JMA III 23 05 19 04.1–.40 37.97N 143.97E 35 3.8
¶602687611
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 23 05 30 57.4–1.1 36.0N–.20 142.7E–.20 18 3.5b 6 4-64
IDC III 23 05 30 54.7–.97 36.02N 142.64E 0 3.6,3.4 **¶17198131**
ISCJB III 23 05 30 55.2–.97 36.0N–.20 142.7E–.20 18 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 06 29 58.9–.87 38.4N–.10 144.7E–.10 29 3.5b 11 5-87
IDC III 23 06 29 54.6–.83 38.35N 144.82E 0 3.9,3.8 **¶17198136**
ISCJB III 23 06 29 56.9–.69 38.4N–.10 144.6E–.10 29 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 06 31 48.4–.59 37.37N–.04 143.62E–.05 16–3 4.6b,3.7s 137 2-153
IDC III 23 06 31 45.0–.60 37.23N 143.68E 0 4.5,4.3 **¶16350024**
NEIC III 23 06 31 46.9–.22 37.22N 143.75E 10 4.8b,4.3
ISCJB III 23 06 31 47.2–1.3 37.30N–.03 143.58E–.03 22–9 4.5b,3.6s
JMA III 23 06 31 48.8–.30 37.34N 143.54E 48 4.2,3.6s
BJI III 23 06 31 50.2 37.63N 143.56E 33 4.9b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=14.0km az=132.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.0km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.0km az=153.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 23 07 07 12.5–1.4 39.50N–.08 143.5E–.10 11 3.6b 14 2-50
ISCJB III 23 07 07 10.8–1.1 39.49N–.06 143.6E–.10 11 3.6b **¶17198140**
IDC III 23 07 07 11.6–2.9 39.59N 143.47E 0 3.7,3.6
JMA III 23 07 07 12.6–.20 39.41N 143.64E 44 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=7.5km az=18.3.
IDC Error ellipse: s-maj=65.3km s-min=30.2km az=153.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 23 07 12 35.9–.54 36.73N–.05 143.60E–.06 24–3 4.3b,3.3s 107 2-145
IDC III 23 07 12 31.8–.51 36.66N 143.76E 0 4.3,4.2 **¶600563676**
JMA III 23 07 12 35.9–.40 36.79N 143.48E 46 4.4,4.2
ISCJB III 23 07 12 35.4–1.5 36.71N–.03 143.53E–.03 33–11 4.3b,3.4s
NEIC III 23 07 12 36.1–1.5 36.66N 143.71E 27–10 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=12.8km az=118.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=158.6.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=130.0.
ISC III 23 07 21 43.6–.67 37.73N–.05 144.27E–.07 26–4 3.9b 53 2-76
JMA III 23 07 21 43.1–.30 37.73N 144.17E 29 4.3 **¶17198142**
IDC III 23 07 21 43.8–.57 37.52N 144.38E 31–4 4.0,3.9
ISCJB III 23 07 21 43.1–.99 37.74N–.04 144.23E–.06 34–9 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 07 27 18.7–2.7 37.0N–.10 142.1E–.30 39–12 3.4b 16 1-146
NIED III 23 07 27 00 37.00N 141.90E 29 3.4W **¶17198144**
JMA III 23 07 27 18.8–.40 37.03N 141.93E 35–5 3.5
IDC III 23 07 27 19.4–.97 36.12N 141.93E 0 3.9L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ17.00000°,λ152.00000°. NP2:ϕ_s4.00000°,δ82.00000°,λ75.00000°. $M_0$1.62000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=20.3km az=135.0.
ISC III 23 07 28 10.1–.96 35.7N–.20 146.2E–.20 35 3.6b 9 9-144
IDC III 23 07 28 04.8–.83 35.71N 146.21E 0 3.8,3.6 **¶17198145**
ISCJB III 23 07 28 07.6–.79 35.7N–.10 146.2E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 07 28 21.8–.90 38.4N–.10 144.7E–.10 29 3.7b 11 6-87
IDC III 23 07 28 17.5–.80 38.45N 144.78E 0 4.1,3.9 **¶17198146**
ISCJB III 23 07 28 20.0–.73 38.4N–.10 144.6E–.10 29 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 07 53 52.5–1.1 37.05N–.05 143.76E–.06 28–7 4.1b 63 2-153
IDC III 23 07 53 47.6–.60 36.92N 143.99E 0 4.2,4.1 **¶16462138**
JMA III 23 07 53 51.4–.40 37.11N 143.72E 44 4.7,4.1
NEIC III 23 07 53 53.2–.51 37.07N 143.88E 35 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.8km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.7km az=161.0.
IDC III 23 07 57 32.0–10 36.46N 144.33E 0 3.8,3.5
¶17198149
IDC Error ellipse: s-maj=226.9km s-min=46.1km az=32.0.
ISC III 23 08 08 24.0–1.5 39.9N–.10 143.8E–.20 16 3.5b 8 5-64
IDC III 23 08 08 21.4–1.4 39.85N 143.77E 0 3.6,3.5 **¶17198152**
ISCJB III 23 08 08 22.0–1.1 39.82N–.10 143.8E–.20 16 3.4b,2.6s
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 09 11 07.3–1.7 37.95N–.06 144.0E–.10 35 3.8b 27 2-62
NIED III 23 09 11 00 38.00N 144.00E 5 3.7W **¶17198156**
ISCJB III 23 09 11 05.8–1.1 37.94N–.05 144.00E–.07 33 3.8b
JMA III 23 09 11 05.9–.30 37.96N 143.97E 41 3.8
IDC III 23 09 11 08.0–2.9 37.15N 143.85E 0 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ23.00000°,λ-101.00000°. NP2:ϕ_s225.00000°,δ68.00000°,λ-85.00000°. $M_0$3.52000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.3km az=151.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=77.6km s-min=30.1km az=56.0.
ISC III 23 09 13 12.1–1.3 38.53N–.08 144.66E–.09 35 3.7b 22 2-63
IDC III 23 09 13 07.2–1.4 38.39N 144.85E 0 3.9,3.7 **¶17198157**
ISCJB III 23 09 13 10.2–.86 38.51N–.06 144.64E–.07 35 3.7b,3.7
JMA III 23 09 13 10.5–.30 38.63N 144.65E 43 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=39.5km s-min=23.5km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.9km az=176.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 23 09 21 59.8–1.0 36.8N–.10 142.18E–.09 15 3.6b 13 1-64
IDC III 23 09 21 57.4–.93 36.77N 142.39E 0 3.8,3.7 **¶17198159**
JMA III 23 09 22 09.4–.40 36.82N 141.44E 36–3 2.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=19.8km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 23 09 35 55.7–.48 39.64N–.04 143.43E–.03 23–2 5.1s,5.0b 711 1-145
NIED III 23 09 35 00 39.60N 143.60E 14 5.1W,5.0b **¶16349358**
IDC III 23 09 35 51.5–.48 39.55N 143.48E 0 4.8,4.8
JMA III 23 09 35 52.7–.20 39.62N 143.63E 27 5.2,4.8
ISCJB III 23 09 35 54.1–.69 39.66N–.02 143.34E–.02 19–4 5.0s,5.0b
BJI III 23 09 35 54.2 39.65N 143.23E 21 5.3b,5.2s
MOS III 23 09 35 55.4–.87 39.73N 143.39E 33 5.3b,4.9s
NEIC III 23 09 35 57.0–.72 39.62N 143.27E 27–5 5.0b,4.9s
GCMT III 23 09 35 57.0–.20 39.59N 143.66E 20–0 5.2W,4.9s

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ29.00000°,λ39.00000°. NP2:ϕ_s36.00000°,δ72.00000°,λ114.00000°. $M_0$5.43000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=10.8km az=128.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=153.4.
MOS Error ellipse: s-maj=7.5km s-min=5.0km az=101.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=147.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c74; s105,c173; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.32±.19 $M_{\theta\theta}$-0.33±.10; $M_{\phi\phi}$-3.99±.13; $M_{r\theta}$2.38±.23; $M_{\theta\phi}$-0.66±.07; $M_{\phi r}$5.00±.27; Best double couple: NP1:ϕ_s22.00000°,δ72.00000°,λ97.00000°. NP2:ϕ_s180.00000°,δ20.00000°,λ70.00000°. Principal axes:
T 7.1490,Plg63.0000°,Azm303.0000°; N -0.3970,Plg7.0000°,Azm200.0000°; P -6.7540,Plg26.0000°,Azm106.0000° $M_0$6.95200×10^{16}

ISC	**III**	**23 09 42 57.0–1.7**	**37.31N–.08**	**142.1E–.10**	**24**	**3.5b**	**14**	**1-57**	
IDC	III	23 09 42 53.5–2.7	37.28N	142.25E	0	3.6,3.6b			¶17198166
ISCJB	III	23 09 42 54.9–1.3	37.24N–.07	142.3E–.10	24	3.4b,3.6b			
JMA	III	23 09 42 54.6–.40	37.21N	142.24E	30	3.6,3.6b			

ISC Event type ke.
IDC Error ellipse: s-maj=68.6km s-min=30.7km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=9.6km az=170.5.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

ISC	**III**	**23 09 46 37.6–.70**	**37.48N–.05**	**143.53E–.07**	**35**	**4.0b**	**42**	**2-76**	
IDC	III	23 09 46 32.9–.69	37.38N	143.82E	0	4.1,3.9			¶16480414
NEIC	III	23 09 46 34.1–.44	37.49N	143.73E	10	4.2b,3.9			
ISCJB	III	23 09 46 35.5–.48	37.48N–.04	143.51E–.05	33	4.0b,3.9			
JMA	III	23 09 46 35.6–.30	37.54N	143.50E	42	3.9,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=15.1km az=112.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=7.3km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.2km az=41.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**III**	**23 09 52 24.8–.60**	**39.57N–.05**	**143.63E–.06**	**11**	**4.4b**	**89**	**1-87**	
JMA	III	23 09 52 20.9–.40	39.56N	143.74E	1–4	4.4			¶16350027
ISCJB	III	23 09 52 22.6–.39	39.52N–.03	143.68E–.05	11	4.3b,4.1s			
IDC	III	23 09 52 23.0–.67	39.51N	143.56E	0	4.3,4.2			
NEIC	III	23 09 52 28.5–.64	39.57N	143.53E	35–5	4.6b,4.2			

ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.8km az=38.2.
IDC Error ellipse: s-maj=18.1km s-min=14.0km az=136.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.7km az=125.0.

IDC	**III**	**23 10 22 50.2–1.3**	**37.24N**	**143.78E**	**0**	**3.9,3.9s**			
									¶17198170

IDC Error ellipse: s-maj=35.3km s-min=27.3km az=94.0.

ISC	**III**	**23 10 25 20.2–.83**	**38.75N–.06**	**144.43E–.07**	**29**	**3.6b**	**32**	**2-70**	
NIED	III	23 10 25 00	38.70N	144.50E	5	3.8W			¶17198171
IDC	III	23 10 25 15.1–.98	38.56N	144.73E	0	3.9,3.7			
JMA	III	23 10 25 18.6–.20	38.67N	144.45E	46	3.9,3.7			
ISCJB	III	23 10 25 18.2–.65	38.75N–.04	144.44E–.06	29	3.7b,3.7			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ30.00000°,λ-75.00000°. NP2:ϕ_s197.00000°,δ62.00000°,λ-99.00000°. $M_0$5.40000×10^{14}
ISCJB Event type ke.

ISC	**III**	**23 10 28 04.7–.99**	**38.5N–.20**	**144.4E–.10**	**29**	**3.9b**	**10**	**5-87**	
IDC	III	23 10 28 00.6–1.0	38.57N	144.49E	0	3.9,3.7			¶17198172
ISCJB	III	23 10 28 02.8–.84	38.7N–.10	144.2E–.10	29	3.7b,3.7			

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**23 11 09 30.9–1.3**	**37.30N**	**143.81E**	**0**	**3.7,3.4**			
									¶17198178

IDC Error ellipse: s-maj=41.5km s-min=26.3km az=112.0.

ISC	**III**	**23 11 13 58.4–1.0**	**37.02N–.06**	**143.60E–.08**	**35**	**3.7b**	**28**	**2-89**	
IDC	III	23 11 13 53.4–1.1	36.79N	143.78E	0	3.8,3.6			¶17198179
JMA	III	23 11 13 56.7–.40	36.97N	143.53E	62	3.5,3.6			
ISCJB	III	23 11 13 56.8–.74	36.97N–.05	143.54E–.06	33	3.7s,3.6b			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**23 11 36 21.4–1.7**	**37.52N–.07**	**143.5E–.10**	**35**	**3.6b**	**22**	**2-63**	
JMA	III	23 11 36 20.3–.30	37.52N	143.45E	42	3.6			¶17198182
ISCJB	III	23 11 36 20.1–1.0	37.47N–.05	143.47E–.08	33	3.7b			
IDC	III	23 11 36 22.8–1.1	36.59N	143.34E	0	3.8,3.5			

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.6km az=2.8.
IDC Error ellipse: s-maj=45.3km s-min=22.4km az=116.0.

ISC	**III**	**23 11 55 52.3–1.0**	**37.4N–.10**	**143.8E–.10**	**35**	**3.7b**	**13**	**5-63**	
IDC	III	23 11 55 47.1–.84	37.35N	143.82E	0	3.9,3.7			¶17198185
ISCJB	III	23 11 55 49.9–.77	37.3N–.10	143.79E–.09	33	3.6b,3.7			

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**23 11 56 00.2–1.4**	**37.37N**	**143.89E**	**0**	**4.0L,3.9**			
									¶17198188

IDC Error ellipse: s-maj=37.1km s-min=30.1km az=123.0.

ISC	**III**	**23 12 04 57.3–.76**	**37.73N–.10**	**144.5E–.10**	**35**	**4.1b**	**24**	**4-88**	
IDC	III	23 12 04 51.3–.65	37.48N	144.53E	0	4.2,4.0			¶603310080
NEIC	III	23 12 04 56.6–.43	37.55N	144.51E	35	4.3b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.3km az=139.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.8km az=122.0.

ISC	**III**	**23 12 16 03.8–1.5**	**39.6N–.10**	**143.40E–.09**	**11**	**3.3b**	**13**	**1-46**	
IDC	III	23 12 15 46.5–4.3	37.01N	144.14E	0	3.7,3.7			¶600563919
NIED	III	23 12 16 00	39.40N	143.50E	17	3.5W,3.7			
JMA	III	23 12 16 03.1–.40	39.42N	143.54E	26	3.7,3.7			

ISC Event type ke.
IDC Error ellipse: s-maj=85.4km s-min=28.9km az=154.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ25.00000°,λ82.00000°. NP2:ϕ_s355.00000°,δ65.00000°,λ94.00000°. $M_0$2.35000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

JMA	**III**	**23 12 21 42.4–.50**	**37.54N**	**142.60E**	**11**	**3.5**			
									¶602686727

JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

ISC	**III**	**23 12 27 09.0–.87**	**37.26N–.06**	**142.34E–.07**	**21**	**3.5b**	**26**	**1-63**	
IDC	III	23 12 27 05.7–.90	37.28N	142.54E	0	3.7,3.6			¶17198193
ISCJB	III	23 12 27 06.8–.64	37.25N–.05	142.52E–.07	21	3.5b,3.6			
JMA	III	23 12 27 07.2–.50	37.28N	142.35E	10–4	4.1,3.6			

ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=16.9km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.7km az=43.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**III**	**23 12 34 53.6–1.1**	**37.16N–.08**	**143.75E–.09**	**35**	**3.5b**	**21**	**2-61**	
IDC	III	23 12 34 48.5–1.1	37.00N	144.00E	0	3.7,3.5L			¶17198194
ISCJB	III	23 12 34 51.7–.79	37.10N–.06	143.75E–.06	33	3.5b,3.5L			
JMA	III	23 12 34 53.0–.40	37.21N	143.70E	55	3.7,3.5L			

ISC Event type ke.
IDC Error ellipse: s-maj=34.0km s-min=22.1km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.9km az=1.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC	**III**	**23 12 51 11.1–3.4**	**37.66N–.08**	**142.0E–.20**	**16–16**	**3.3b**	**14**	**1-58**	
IDC	III	23 12 50 59.1–1.4	36.00N	143.57E	0	3.7,3.4			¶602687433
JMA	III	23 12 51 13.0–.20	37.72N	142.00E	25–4	3.2,3.4			

ISC Event type ke.
IDC Error ellipse: s-maj=35.1km s-min=31.0km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**23 13 05 28.8–1.1**	**37.17N–.09**	**143.83E–.09**	**35**	**3.8b**	**19**	**2-92**	
NIED	III	23 13 05 00	37.20N	143.80E	41	3.8W			¶17198198
IDC	III	23 13 05 23.5–1.0	37.02N	144.03E	0	3.9,3.8			
ISCJB	III	23 13 05 26.6–.81	37.14N–.07	143.83E–.08	33	3.7b,3.6s			
JMA	III	23 13 05 26.8–.40	37.16N	143.79E	48	3.7,3.6s			

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ56.00000°,λ37.00000°. NP2:ϕ_s34.00000°,δ60.00000°,λ140.00000°. $M_0$5.68000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=19.5km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.7km az=18.7.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

IDC	**III**	**23 13 13 01.4–10**	**36.43N**	**144.20E**	**0**	**3.5,3.4L**			
									¶17198199

IDC Error ellipse: s-maj=238.8km s-min=47.7km az=32.0.

ISC	**III**	**23 13 15 46.0–1.0**	**37.9N–.10**	**142.42E–.08**	**21**	**3.5b**	**18**	**1-62**	
JMA	III	23 13 15 42.1–.20	37.72N	142.49E	0	4.0			¶17198200
IDC	III	23 13 15 42.3–.93	37.77N	142.63E	0	3.6,3.5			
ISCJB	III	23 13 15 43.9–.79	37.82N–.10	142.60E–.08	21	3.5b,3.5			

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**23 13 32 18.5–2.6**	**37.66N**	**143.02E**	**0**	**3.6,3.5b**			
									¶17198203

IDC Error ellipse: s-maj=70.6km s-min=26.2km az=59.0.

ISC	**III**	**23 13 42 21.0–.92**	**37.67N–.09**	**143.6E–.10**	**35**	**3.6b**	**20**	**4-62**	
NEIC	III	23 13 42 19.0–4.8	37.71N	143.66E	20–34	4.4b			¶16449026
ISCJB	III	23 13 42 18.6–.68	37.71N–.07	143.66E–.09	33	4.1s,3.7b			
IDC	III	23 13 42 22.3–3.1	37.71N	143.48E	43–29	4.2L,4.1s			

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=11.6km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=8.2km az=137.6.
IDC Error ellipse: s-maj=25.2km s-min=16.5km az=92.0.

ISC	**III**	**23 13 45 51.2–.98**	**36.8N–.10**	**144.0E–.10**	**35**	**3.7b**	**18**	**5-73**	
IDC	III	23 13 45 45.6–1.0	36.85N	144.19E	0	3.9,3.8			¶16449027
ISCJB	III	23 13 45 48.8–.71	36.77N–.08	143.99E–.09	33	4.0b,3.8			
NEIC	III	23 13 45 50.9–.66	36.81N	144.09E	35	4.0b,3.8			

ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=18.0km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=10.3km az=151.6.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=11.8km az=88.0.

ISC	**III**	**23 13 56 27.4–.43**	**37.66N–.04**	**142.84E–.03**	**34–1**	**5.0b,4.8s**	**839**	**1-154**	
NIED	III	23 13 56 00	37.60N	142.90E	20	5.0W,4.8s			¶16350032
ISCJB	III	23 13 56 24.3–.75	37.66N–.02	142.81E–.02	20–5	5.0b,4.8s			
BJI	III	23 13 56 25.1	37.68N	142.80E	32	5.0b,5.0s			
MOS	III	23 13 56 25.6–.99	37.75N	142.87E	33	5.2b,4.8s			
JMA	III	23 13 56 25.4–.30	37.64N	142.86E	38	5.2,4.8s			
GCMT	III	23 13 56 27.8–.30	37.75N	142.96E	20–0	5.0W,4.8s			
NEIC	III	23 13 56 27.8–.55	37.65N	142.81E	34–3	5.1b,4.8s			
IDC	III	23 13 56 27.8–3.3	37.65N	142.87E	33–24	4.8,4.7			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ43.00000°,λ-99.00000°. NP2:ϕ_s212.00000°,δ48.00000°,λ-82.00000°. $M_0$2.99000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.4km az=165.9.
MOS Error ellipse: s-maj=6.4km s-min=4.2km az=103.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c51; s87,c140; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.76±.17 $M_{\theta\theta}$0.90±.10; $M_{\phi\phi}$2.86±.11; $M_{r\theta}$0.12±.21; $M_{\theta\phi}$1.40±.06; $M_{\phi r}$-1.10±.18; Best double couple: NP1:ϕ_s19.00000°,δ53.00000°,λ-100.00000°. NP2:ϕ_s216.00000°,δ39.00000°,λ-77.00000°. Principal axes:
T 3.7040,Plg7.0000°,Azm116.0000°; N 0.2540,Plg8.0000°,Azm25.0000°; P -3.9630,Plg79.0000°,Azm247.0000° $M_0$3.83300×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=2.1km az=151.0.
IDC Error ellipse: s-maj=11.2km s-min=8.7km az=111.0.

JMA	**III**	**23 14 04 55.0–.20**	**39.25N**	**143.45E**	**0**	**3.5**			
									¶602686644

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**23 14 06 03.4–.61**	**37.80N–.05**	**144.31E–.06**	**35**	**4.3b**	**78**	**2-88**	
NIED	III	23 14 06 00	37.80N	144.20E	23	4.1W			¶16357297
ISCJB	III	23 14 06 01.5–.38	37.79N–.04	144.24E–.04	33	4.2b,4.1s			
JMA	III	23 14 06 02.5–.20	37.82N	144.16E	49	4.8,4.1s			
NEIC	III	23 14 06 02.0–.71	37.72N	144.37E	28–4	4.5b,4.1s			
IDC	III	23 14 06 02.3–5.7	37.65N	144.42E	31–42	4.1,4.1			

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ29.00000°,λ-95.00000°. NP2:ϕ_s203.00000°,δ61.00000°,λ-87.00000°. $M_0$1.50000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.0km az=157.4.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=5.8km az=151.0.
IDC Error ellipse: s-maj=18.9km s-min=14.1km az=137.0.

ISC	**III**	**23 14 23 14.7–2.6**	**37.62N–.08**	**142.73E–.09**	**6–15**	**3.4b**	**16**	**1-62**	
IDC	III	23 14 23 13.4–1.3	37.55N	142.81E	0	3.5,3.4			¶17198205
JMA	III	23 14 23 16.6–.30	37.65N	142.84E	39	3.5,3.4			

ISC Event type ke.
IDC Error ellipse: s-maj=37.5km s-min=29.6km az=81.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**III**	**23 14 26 07.4–1.1**	**37.50N–.05**	**143.50E–.09**	**35**	**3.8b**	**28**	**2-62**	
IDC	III	23 14 26 02.1–1.1	37.52N	143.74E	0	4.1L,4.0			¶16449028
ISCJB	III	23 14 26 05.4–.69	37.48N–.04	143.52E–.06	33	3.8b,4.0			
JMA	III	23 14 26 06.2–.30	37.53N	143.40E	29	4.0,4.0			
NEIC	III	23 14 26 07.2–.77	37.56N	143.80E	35	4.1b,4.0			

ISC Event type se.
IDC Error ellipse: s-maj=30.5km s-min=21.9km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.8km az=177.8.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=12.8km az=103.0.

ISC	**III**	**23 14 32 26.2–1.0**	**35.72N–.08**	**142.1E–.10**	**22**	**4.3b**	**18**	**3-60**	
IDC	III	23 14 32 29.9–4.4	35.75N	141.80E	45–43	4.0,3.9			¶16449029
NEIC	III	23 14 32 30.1–1.7	35.73N	141.86E	53–15	4.5b,3.9			

ISC Event type se.
IDC Error ellipse: s-maj=35.9km s-min=19.8km az=93.0.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=11.3km az=68.0.

ISC	**III**	**23 14 47 50.4–.81**	**37.11N–.08**	**143.6E–.20**	**35**	**3.9b**	**14**	**5-76**	
IDC	III	23 14 47 46.2–.91	36.97N	143.97E	0	4.3L,4.2			¶16480458
ISCJB	III	23 14 47 48.6–.53	37.02N–.07	143.6E–.20	33	4.0b,3.6s			
NEIC	III	23 14 47 50.8–.53	37.09N	143.49E	35	4.2b,3.6s			

ISC Event type se.
IDC Error ellipse: s-maj=74.6km s-min=16.4km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=20.3km s-min=8.3km az=17.7.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=8.5km az=100.0.

ISC	**III**	**23 14 47 58.5–.83**	**37.2N–.10**	**142.8E–.20**	**21**	**4.8b**	**77**	**14-89**	
IDC	III	23 14 47 55.2–.82	37.30N	142.71E	0	4.5,4.2			¶17198207
ISCJB	III	23 14 47 56.9–.56	37.34N–.09	142.7E–.10	21	4.7b,4.2			
NEIC	III	23 14 48 00.9–.52	37.33N	142.85E	35	4.8b,4.2			

ISC Event type se.
IDC Error ellipse: s-maj=37.2km s-min=18.1km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=12.7km az=12.2.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=11.9km az=104.0.

ISC	**III**	**23 15 19 36.7–1.0**	**36.7N–.10**	**144.60E–.09**	**35**	**3.7b**	**14**	**5-76**	
IDC	III	23 15 19 31.6–.98	36.68N	144.67E	0	3.8,3.6			¶17198214
ISCJB	III	23 15 19 34.5–.79	36.6N–.10	144.57E–.08	33	3.6b,3.6			

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**23 15 31 12.4–2.3**	**37.03N–.06**	**142.39E–.08**	**4–14**	**3.8b**	**24**	**1-63**	
ISCJB	III	23 15 31 10.8–2.0	36.96N–.05	142.46E–.06	8–14	3.6b			¶602686272
IDC	III	23 15 31 12.0–.85	36.95N	142.26E	0	3.8,3.8			
JMA	III	23 15 31 13.0–.20	37.07N	142.46E	19	4.3,3.8			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.3km az=42.9.
IDC Error ellipse: s-maj=23.6km s-min=16.0km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**23 15 44 05.1–.70**	**36.28N–.08**	**143.32E–.08**	**35**	**3.9b**	**24**	**4-146**	
IDC	III	23 15 44 00.0–.71	36.30N	143.50E	0	4.1,3.9			¶16450726
NEIC	III	23 15 44 02.8–4.6	36.31N	143.47E	19–29	4.6b,3.9			
ISCJB	III	23 15 44 02.6–.54	36.25N–.06	143.40E–.08	33	4.0b,3.8s			

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC III 23 15 46 41.6–.94 34.81N–.06 141.94E–.09 29 3.9b 35 1-60
NIED III 23 15 46 00 34.70N 142.10E 11 3.9W **¶16450727**
IDC III 23 15 46 37.1–1.0 34.82N 142.06E 0 3.9,3.8
JMA III 23 15 46 39.9–.90 34.71N 142.09E 47 3.6,3.8
ISCJB III 23 15 46 39.2–.69 34.76N–.05 142.09E–.07 29 3.9b,3.8
NEIC III 23 15 46 42.2–.55 34.85N 142.02E 35 4.5b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ49.00000°,λ58.00000°. NP2:ϕ_s221.00000°,δ50.00000°,λ121.00000°. $M_0$8.87000×10^{14}
IDC Error ellipse: s-maj=23.6km s-min=17.7km az=97.0.
JMA Error ellipse: s-maj=3.3km s-min=7.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.4km az=25.5.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.2km az=104.0.
ISC III 23 15 54 27.5–1.1 36.10N–.07 142.05E–.09 23 3.7b 20 1-60
NIED III 23 15 54 00 36.10N 142.00E 14 3.8W **¶17198218**
IDC III 23 15 54 23.7–1.1 36.15N 142.21E 0 3.8,3.7
ISCJB III 23 15 54 25.4–.82 36.08N–.07 142.15E–.08 23 3.7b,3.6s
JMA III 23 15 54 27.3–.30 36.10N 142.03E 66 3.6,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ30.00000°,λ64.00000°. NP2:ϕ_s33.00000°,δ63.00000°,λ104.00000°. $M_0$5.38000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=20.3km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.6km az=149.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 23 16 03 35.7–.63 39.77N–.05 143.61E–.05 26–3 4.8b,4.2s 278 2-117
IDC III 23 16 03 31.2–.57 39.68N 143.71E 0 4.5,4.4 **¶16350036**
BJI III 23 16 03 34.0 39.81N 143.37E 20 5.0b,4.9b
ISCJB III 23 16 03 34.4–.25 39.77N–.03 143.53E–.04 26 4.7b,4.2s
NEIC III 23 16 03 36.0–1.8 39.76N 143.53E 26–12 4.8b,4.2s
MOS III 23 16 03 35.1–1.1 39.82N 143.60E 33 4.9b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.9km az=137.4.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.6km az=130.0.
MOS Error ellipse: s-maj=6.9km s-min=4.4km az=109.2.
ISC III 23 16 31 12.1–2.1 38.0N–.20 144.6E–.30 35 3.5b 6 5-62
IDC III 23 16 31 06.2–2.6 38.09N 144.83E 0 3.8,3.6 **¶17198222**
ISC Event type ke.
IDC Error ellipse: s-maj=72.0km s-min=23.9km az=59.0.
IDC III 23 16 57 25.9–2.6 37.96N 143.10E 0 3.4,3.3b
¶17198224
IDC Error ellipse: s-maj=67.9km s-min=31.2km az=66.0.
ISC III 23 17 01 58.0–.57 39.48N–.05 143.68E–.05 11 4.7b,4.3s 161 1-145
NIED III 23 17 01 00 39.40N 143.90E 14 4.6W,4.3s **¶17198225**
JMA III 23 17 01 54.0–.30 39.42N 143.87E 0 4.6,4.3s
ISCJB III 23 17 01 57.8–.31 39.51N–.04 143.53E–.04 11 4.6b,4.2s
IDC III 23 17 01 57.2–.65 39.41N 143.54E 0 4.5,4.4
NEIC III 23 17 01 59.4–2.9 39.43N 143.49E 11–17 4.8b,4.4
MOS III 23 17 02 01.8–1.1 39.66N 143.38E 33 4.8b,4.4
BJI III 23 17 02 04.7 39.56N 142.90E 38 5.0b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ37.00000°,λ92.00000°. NP2:ϕ_s17.00000°,δ53.00000°,λ89.00000°. $M_0$8.97000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=3.6km az=135.9.
IDC Error ellipse: s-maj=16.0km s-min=12.1km az=152.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.5km az=143.0.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=106.9.
ISC III 23 17 08 00.2–1.6 36.16N–.10 142.5E–.10 18 3.6b 10 3-60
IDC III 23 17 07 56.7–1.9 36.15N 142.64E 0 3.7,3.6 **¶17198227**
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=21.5km az=70.0.
ISC III 23 17 15 36.1–.91 38.01N–.06 144.59E–.08 35 3.5b 31 3-75
IDC III 23 17 15 30.3–.93 37.72N 144.83E 0 3.8,3.6L **¶17198228**
JMA III 23 17 15 31.9–.40 38.00N 144.67E 39 4.3,3.6L
ISCJB III 23 17 15 33.8–.70 38.05N–.04 144.59E–.05 33 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 17 19 07.2–.63 39.40N–.05 143.82E–.07 11 4.2b 75 2-75
JMA III 23 17 19 04.5–.30 39.44N 143.84E 5 4.4 **¶16480479**
IDC III 23 17 19 05.4–.75 39.36N 143.88E 0 4.0,3.9
ISCJB III 23 17 19 05.2–.42 39.41N–.03 143.85E–.05 11 4.0b,3.0s
NEIC III 23 17 19 07.4–3.5 39.39N 143.87E 13–21 4.5b,3.0s
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=19.6km s-min=14.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=29.5.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=6.2km az=116.0.
IDC III 23 17 27 56.0–2.7 36.53N 142.20E 0 3.5,3.4
¶17198229
IDC Error ellipse: s-maj=60.4km s-min=28.0km az=66.0.
ISC III 23 18 03 02.1–.56 36.05N–.05 143.37E–.06 35 4.1b 62 2-146
IDC III 23 18 02 56.8–.62 36.02N 143.42E 0 4.2,4.1 **¶16462143**
ISCJB III 23 18 03 00.3–.41 36.09N–.04 143.32E–.04 33 4.1b,3.2s
JMA III 23 18 03 00.3–.20 36.19N 143.35E 68 4.1,3.2s
NEIC III 23 18 03 02.1–.38 36.02N 143.39E 35 4.6b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=14.3km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=168.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.6km az=134.0.
ISC III 23 18 16 57.3–.84 38.3N–.10 143.6E–.10 15 3.9b 22 4-76
IDC III 23 18 16 54.8–.72 38.21N 143.62E 0 3.9,3.8 **¶16480488**
ISCJB III 23 18 16 55.2–.57 38.24N–.07 143.65E–.10 15 3.9b,3.7s
NEIC III 23 18 16 60.0–.55 38.30N 143.52E 35 4.5b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.8km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=9.5km az=42.3.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.1km az=113.0.
ISC III 23 18 30 48.1–.59 39.80N–.04 143.47E–.05 22–3 4.9b,4.2s 240 1-144
NIED III 23 18 30 00 39.70N 143.60E 23 4.7W,4.2s **¶16352083**
ISCJB III 23 18 30 43.2–1.1 39.74N–.03 143.55E–.04 2–6 4.7b,4.2s
JMA III 23 18 30 44.2–.30 39.76N 143.63E 12 4.7,4.2s
IDC III 23 18 30 44.6–.52 39.71N 143.42E 0 4.5,4.4
BJI III 23 18 30 46.0 39.73N 143.18E 15 4.9b,4.8b
NEIC III 23 18 30 48.0–1.9 39.73N 143.39E 20–13 4.8b,4.8b
MOS III 23 18 30 48.5–1.1 39.88N 143.38E 33 5.0b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ29.00000°,λ89.00000°. NP2:ϕ_s26.00000°,δ61.00000°,λ91.00000°. $M_0$1.20000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=43.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=13.9km s-min=11.5km az=118.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=122.0.
MOS Error ellipse: s-maj=7.4km s-min=4.6km az=107.2.
ISC III 23 18 39 36.3–.89 39.63N–.04 143.46E–.05 14–4 4.6b,3.6s 134 1-154
NIED III 23 18 39 00 39.70N 143.60E 23 4.4W,3.6s **¶16352084**
ISCJB III 23 18 39 33.3–1.2 39.64N–.03 143.62E–.04 5–7 4.5b,3.8s
JMA III 23 18 39 33.2–.20 39.68N 143.66E 5 4.6,3.8s
IDC III 23 18 39 34.7–.58 39.68N 143.41E 0 4.4,4.3
BJI III 23 18 39 34.5 39.66N 143.47E 15 4.9b,4.6b
NEIC III 23 18 39 38.5–2.3 39.70N 143.44E 24–16 4.7b,4.6b
MOS III 23 18 39 38.2–1.0 39.72N 143.41E 33 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ28.00000°,λ92.00000°. NP2:ϕ_s25.00000°,δ62.00000°,λ89.00000°. $M_0$3.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.1km az=141.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=12.2km az=134.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=123.0.
MOS Error ellipse: s-maj=7.9km s-min=5.1km az=101.2.

JMA III 23 19 00 40.1–.50 37.19N 144.29E 56 4.2
¶602685851
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 23 19 14 51.9–2.9 39.80N–.06 143.53E–.07 6–17 3.4b 27 1-64
NIED III 23 19 14 00 39.70N 143.60E 17 3.7W **¶17198235**
ISCJB III 23 19 14 50.8–1.7 39.68N–.05 143.72E–.07 15–12 3.4b
JMA III 23 19 14 50.6–.30 39.74N 143.61E 3–4 3.8
IDC III 23 19 14 51.3–1.3 39.65N 143.42E 0 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ38.00000°,λ122.00000°. NP2:ϕ_s351.00000°,δ59.00000°,λ68.00000°. $M_0$3.47000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=8.1km az=18.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=35.4km s-min=20.3km az=90.0.
ISC III 23 19 20 07.6–2.1 37.66N–.05 142.47E–.07 3–12 3.6b 32 1-62
NIED III 23 19 20 00 37.70N 142.30E 38 3.9W **¶17198236**
IDC III 23 19 20 07.5–1.1 37.69N 142.51E 0 3.7,3.7
JMA III 23 19 20 12.0–.20 37.73N 142.31E 27–5 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ49.00000°,λ-165.00000°. NP2:ϕ_s65.00000°,δ79.00000°,λ-42.00000°. $M_0$7.02000×10^{14}
IDC Error ellipse: s-maj=26.8km s-min=17.2km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 23 19 35 21.1–.30 38.40N 144.47E 32 3.6
¶602686548
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 23 19 42 44.3–2.0 36.62N–.05 142.07E–.07 0–11 4.1b 55 1-75
IDC III 23 19 42 44.4–.83 36.64N 142.08E 0 3.9,3.9b **¶16480496**
NEIC III 23 19 42 46.8–2.1 36.63N 142.09E 17–13 4.4b,3.9b
JMA III 23 19 42 47.0–.20 36.64N 141.96E 20–3 4.1,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.4km az=95.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 23 19 49 57.8–1.3 37.5N–.10 143.9E–.20 35 3.8b 8 6-62
IDC III 23 19 49 52.4–1.1 37.61N 144.16E 0 3.9,3.8 **¶17198240**
ISCJB III 23 19 49 55.2–1.1 37.5N–.10 144.1E–.20 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 19 58 32.3–2.1 38.3N–.10 143.9E–.10 14 3.9b 12 2-74
IDC III 23 19 58 35.8–1.5 37.34N 144.63E 0 4.1,4.0 **¶17198242**
JMA III 23 19 58 47.2–.30 38.48N 143.03E 7–4 3.7,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=24.9km az=82.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 23 20 07 40.1–1.1 39.92N–.07 143.51E–.07 6 3.6b 23 1-64
NIED III 23 20 07 00 39.90N 143.60E 17 3.7W **¶17198246**
ISCJB III 23 20 07 38.5–.81 39.94N–.06 143.66E–.07 6 3.6s,3.5b
IDC III 23 20 07 38.6–1.2 39.85N 143.71E 0 3.6,3.6
JMA III 23 20 07 40.2–.30 39.95N 143.56E 8 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ35.00000°,λ106.00000°. NP2:ϕ_s13.00000°,δ57.00000°,λ79.00000°. $M_0$4.02000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.8km az=140.1.
IDC Error ellipse: s-maj=31.7km s-min=18.9km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA III 23 20 40 56.7–.20 37.32N 142.35E 3–3 3.5
¶602686398
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 23 21 25 17.1–.30 37.65N 143.57E 39 3.6
¶602685713
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 23 21 30 02.7–.43 36.43N–.05 142.88E–.05 29 4.7b,3.8s 189 2-146
IDC III 23 21 29 57.5–.58 36.30N 142.99E 0 4.5,4.5 **¶602685708**
JMA III 23 21 30 01.3–.20 36.38N 142.78E 32 4.4,4.5
NEIC III 23 21 30 01.3–3.4 36.33N 142.92E 20–23 4.8b,4.5
ISCJB III 23 21 30 01.1–.24 36.37N–.03 142.82E–.03 29 4.6b,3.7s
MOS III 23 21 30 02.5–.97 36.54N 142.82E 33 4.9b,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=12.6km az=144.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.4km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=157.0.
MOS Error ellipse: s-maj=8.8km s-min=5.4km az=113.4.
ISC III 23 22 04 35.5–.77 39.70N–.08 143.56E–.07 11 3.8b 29 1-75
ISCJB III 23 22 04 33.4–.57 39.67N–.07 143.67E–.05 11 3.6b,3.1s **¶17198254**
JMA III 23 22 04 33.2–.20 39.74N 143.64E 6 4.4,3.1s
IDC III 23 22 04 33.5–.84 39.66N 143.61E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.5km az=163.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=22.8km s-min=17.4km az=111.0.
JMA III 23 22 21 32.9–.30 39.66N 143.79E 17 3.5
NIED III 23 22 21 00 39.70N 143.80E 17 3.6W **¶600564567**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ35.00000°,λ57.00000°. NP2:ϕ_s33.00000°,δ61.00000°,λ111.00000°. $M_0$3.13000×10^{14}
ISC III 23 22 49 17.3–.73 39.62N–.06 143.47E–.07 11 4.0b 56 1-80
ISCJB III 23 22 49 14.8–.47 39.59N–.04 143.65E–.06 11 4.4s,4.0b **¶16480518**
JMA III 23 22 49 14.6–.30 39.64N 143.63E 5–4 4.3,4.0b
IDC III 23 22 49 15.4–.92 39.57N 143.44E 0 3.9,3.8
NEIC III 23 22 49 19.4–1.8 39.60N 143.43E 25–12 4.4b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=31.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=24.2km s-min=15.3km az=97.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.7km az=106.0.
JMA III 23 22 50 16.7–.60 36.88N 142.28E 12–5 3.8
NIED III 23 22 50 00 36.90N 142.30E 20 3.8W **¶600564602**
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ33.00000°,λ152.00000°. NP2:ϕ_s24.00000°,δ75.00000°,λ60.00000°. $M_0$4.78000×10^{14}
ISC III 23 23 53 07.2–3.0 39.96N–.06 143.56E–.08 10–17 3.5b 27 1-60
NIED III 23 23 53 00 39.90N 143.60E 14 3.7W **¶17198262**
IDC III 23 23 53 03.8–2.7 40.13N 143.85E 0 3.6,3.5
JMA III 23 23 53 07.9–.30 39.90N 143.57E 11–4 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ32.00000°,λ105.00000°. NP2:ϕ_s17.00000°,δ59.00000°,λ81.00000°. $M_0$4.54000×10^{14}
IDC Error ellipse: s-maj=73.6km s-min=27.9km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 24 00 19 30.7–.50 39.40N 143.35E 0 3.6
¶602690927
JMA Error ellipse: s-maj=3.3km s-min=3.4km az=-1.0.
ISC III 24 01 05 32.3–.70 36.48N–.07 142.68E–.07 15 3.8b 37 2-90
NIED III 24 01 05 00 36.50N 142.80E 8 4.0W **¶16452774**
JMA III 24 01 05 30.9–.30 36.50N 142.78E 28 3.7
IDC III 24 01 05 30.1–.77 36.41N 142.72E 0 3.9,3.8
ISCJB III 24 01 05 30.9–.55 36.48N–.06 142.71E–.06 15 3.8b,3.8
NEIC III 24 01 05 33.3–3.5 36.42N 142.71E 20–24 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ39.00000°,λ94.00000°. NP2:ϕ_s21.00000°,δ51.00000°,λ87.00000°. $M_0$1.16000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=17.5km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.2km az=146.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=9.2km az=124.0.
ISC III 24 01 54 45.7–.81 37.07N–.06 143.64E–.07 35 4.0b,3.3s 41 2-84
IDC III 24 01 54 39.8–.78 36.96N 143.88E 0 4.0,3.9 **¶17198268**
ISCJB III 24 01 54 43.7–.54 37.05N–.04 143.61E–.04 33 3.8b,3.3s
JMA III 24 01 54 44.0–.40 37.11N 143.58E 34 4.2,3.3s

ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=17.0km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=167.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 24 02 10 25.7–.76 36.94N–.07 143.34E–.07 35 3.7b 30 2-145
NIED III 24 02 10 00 37.00N 143.20E 5 3.8W **¶17198271**
IDC III 24 02 10 21.0–.73 36.79N 143.72E 0 4.0,3.8
ISCJB III 24 02 10 23.9–.56 36.92N–.06 143.34E–.05 33 3.7b,3.2s
JMA III 24 02 10 25.4–.20 36.98N 143.23E 81 3.8,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ23.00000°,λ-82.00000°. NP2:ϕ_s207.00000°,δ67.00000°,λ-93.00000°. M_o5.13000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=17.9km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.8km az=160.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 24 02 25 18.4–.20 39.94N 144.28E 48 3.6
¶602691054
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 24 02 28 30.1–.91 37.09N–.09 143.65E–.08 35 3.7b 26 2-89
NIED III 24 02 28 00 37.10N 143.60E 5 3.8W **¶17198274**
IDC III 24 02 28 24.5–.93 36.97N 143.82E 0 4.0,3.8
ISCJB III 24 02 28 28.0–.66 37.07N–.06 143.66E–.06 33 3.8b,3.8
JMA III 24 02 28 28.0–.20 37.11N 143.65E 45 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ40.00000°,λ-88.00000°. NP2:ϕ_s214.00000°,δ50.00000°,λ-92.00000°. M_o5.24000×10^{14}
IDC Error ellipse: s-maj=24.4km s-min=19.7km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.4km az=17.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 02 49 35.6–3.3 37.99N–.06 142.36E–.06 16–20 4.2b 57 1-117
NIED III 24 02 49 00 38.00N 142.30E 20 4.0W **¶600564814**
JMA III 24 02 49 36.3–.30 38.02N 142.35E 24–4 4.1
NEIC III 24 02 49 38.5–.95 38.05N 142.43E 35–7 4.3b
IDC III 24 02 49 40.0–2.9 38.00N 142.36E 51–25 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ24.00000°,λ-75.00000°. NP2:ϕ_s5.00000°,δ67.00000°,λ-97.00000°. M_o1.09000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.6km az=127.0.
IDC Error ellipse: s-maj=18.1km s-min=15.0km az=107.0.
ISC III 24 02 53 25.8–.85 34.6N–.20 141.5E–.20 27 4.4b 24 2-86
NIED III 24 02 53 00 36.70N 141.80E 32 4.2W **¶16452780**
IDC III 24 02 53 21.2–.77 34.62N 141.49E 0 4.5,4.3
NEIC III 24 02 53 26.9–.67 34.63N 141.34E 35 4.3b,4.3
JMA III 24 02 53 34.7–.20 36.69N 141.84E 48–4 4.3,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ17.00000°,λ80.00000°. NP2:ϕ_s5.00000°,δ74.00000°,λ93.00000°. M_o2.04000×10^{15}
IDC Error ellipse: s-maj=26.3km s-min=17.3km az=58.0.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=13.7km az=59.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 03 20 19.2–1.4 36.1N–.10 142.5E–.10 18 3.5b 9 4-146
IDC III 24 03 20 16.2–1.5 36.18N 142.62E 0 3.5,3.5b **¶17198278**
ISCJB III 24 03 20 17.0–1.4 36.08N–.09 142.6E–.10 18 3.5b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC III 24 03 25 38.8–1.4 36.53N 143.92E 0 3.9,3.7L
¶17198280
IDC Error ellipse: s-maj=39.1km s-min=31.3km az=143.0.
ISC III 24 03 37 12.6–.82 37.90N–.06 143.81E–.07 35 3.6b 38 2-76
IDC III 24 03 37 07.4–.92 37.83N 143.84E 0 3.8,3.6 **¶17198282**
JMA III 24 03 37 11.8–.20 37.93N 143.69E 29 4.1,3.6
ISCJB III 24 03 37 11.0–.60 37.93N–.04 143.81E–.04 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 03 40 51.7–.55 37.85N–.05 142.71E–.06 35 3.8b 47 1-145
IDC III 24 03 40 47.1–.67 37.87N 142.70E 0 4.4L,4.0 **¶16452782**
ISCJB III 24 03 40 50.3–.42 37.85N–.04 142.68E–.04 35 3.9b,4.0
NEIC III 24 03 40 50.2–2.3 37.85N 142.78E 21–17 4.3b,4.0
JMA III 24 03 40 51.8–.20 37.91N 142.50E 29 4.2,4.0
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=14.9km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.6km az=168.7.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.2km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 04 17 09.9–.66 38.52N–.10 144.04E–.09 14 3.9b 32 4-118
IDC III 24 04 17 07.4–.60 38.43N 143.99E 0 4.1,3.9 **¶16452783**
ISCJB III 24 04 17 08.2–.49 38.52N–.06 144.02E–.07 14 3.9b,3.9
NEIC III 24 04 17 09.1–4.4 38.51N 144.01E 10–27 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=15.5km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.1km az=142.4.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.3km az=109.0.
IDC III 24 04 19 59.6–3.2 38.36N 144.73E 0 3.7,3.6
¶17198283
IDC Error ellipse: s-maj=73.4km s-min=33.8km az=62.0.
ISC III 24 04 29 13.8–1.1 37.7N–.20 142.5E–.10 10 3.7b 10 4-63
ISCJB III 24 04 29 11.7–.83 37.6N–.10 142.6E–.10 10 3.6b **¶600564866**
IDC III 24 04 29 12.1–.93 37.64N 142.49E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=9.8km az=151.7.
IDC Error ellipse: s-maj=27.1km s-min=19.8km az=110.0.
ISC III 24 04 30 37.6–.46 37.40N–.03 143.81E–.04 29–2 4.9b,4.2s 460 2-154
NIED III 24 04 30 00 37.40N 143.60E 5 4.7W,4.2s **¶16352103**
ISCJB III 24 04 30 33.1–.87 37.38N–.02 143.77E–.02 9–5 4.8b,4.2s
IDC III 24 04 30 33.2–.43 37.31N 143.88E 0 4.8,4.7
NEIC III 24 04 30 36.2–1.8 37.37N 143.80E 20–12 4.9b,4.7
MOS III 24 04 30 36.7–1.0 37.32N 143.79E 36 5.0b,4.7
JMA III 24 04 30 37.0–.30 37.43N 143.63E 46 4.8,4.7
BJI III 24 04 30 39.2 37.68N 143.49E 37 5.1b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ26.00000°,λ-90.00000°. NP2:ϕ_s216.00000°,δ64.00000°,λ-90.00000°. M_o1.23000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=164.5.
IDC Error ellipse: s-maj=12.8km s-min=10.6km az=116.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=137.0.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=114.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 24 04 35 25.0–.78 37.38N–.04 143.78E–.04 32–5 4.7b,4.2s 262 2-145
IDC III 24 04 35 19.9–.43 37.33N 143.85E 0 4.6,4.4 **¶16352104**
NEIC III 24 04 35 21.1–2.5 37.34N 143.78E 6–15 4.8b,4.4
ISCJB III 24 04 35 21.7–.95 37.36N–.03 143.70E–.02 15–5 4.6b,4.2s
JMA III 24 04 35 23.6–.30 37.40N 143.66E 49 4.7,4.2s
BJI III 24 04 35 23.7 37.68N 144.04E 41 5.1b,4.6b
MOS III 24 04 35 24.1–1.1 37.49N 143.77E 31 4.9b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=10.6km az=121.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.2km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.1km az=160.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=8.5km s-min=5.3km az=104.0.
ISC III 24 04 48 45.1–.72 38.30N–.08 144.37E–.08 29 3.9b 28 4-118
IDC III 24 04 48 40.2–.67 38.18N 144.45E 0 4.0,3.8 **¶16480526**
ISCJB III 24 04 48 43.2–.62 38.30N–.06 144.34E–.08 29 3.9b,3.8
NEIC III 24 04 48 44.1–3.7 38.22N 144.43E 24–26 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=16.5km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=7.1km az=135.2.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=10.0km az=121.0.
IDC III 24 04 56 44.2–4.2 37.91N 142.84E 0 4.5,4.4
¶17198288
IDC Error ellipse: s-maj=95.7km s-min=35.8km az=175.0.
ISC III 24 05 28 50.7–2.7 36.94N–.06 142.27E–.07 12–16 3.9b 44 1-146
IDC III 24 05 28 48.9–.69 36.90N 142.38E 0 4.0,3.9 **¶16480558**
JMA III 24 05 28 48.7–.30 36.92N 142.40E 13–4 4.4,3.9
ISCJB III 24 05 28 51.1–1.8 36.86N–.04 142.34E–.05 30–14 3.9b,3.4s
NEIC III 24 05 28 53.0–2.2 36.94N 142.32E 27–16 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.6km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=6.2km az=5.2.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.2km az=126.0.
ISC III 24 05 44 39.0–1.4 37.30N–.08 142.4E–.10 21 3.6b 16 1-61
NIED III 24 05 44 00 37.30N 142.30E 32 3.6W **¶600564903**
IDC III 24 05 44 34.3–2.3 37.31N 142.74E 0 3.7,3.6
ISCJB III 24 05 44 36.8–1.0 37.24N–.07 142.5E–.10 21 3.5b,3.6
JMA III 24 05 44 39.9–.20 37.26N 142.31E 25 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ37.00000°,λ-164.00000°. NP2:ϕ_s240.00000°,δ80.00000°,λ-54.00000°. M_o2.43000×10^{14}
IDC Error ellipse: s-maj=66.7km s-min=23.7km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=8.2km az=141.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 05 52 35.9–.54 36.83N–.04 142.17E–.06 19 4.1b 50 1-146
JMA III 24 05 52 33.4–.40 36.88N 142.33E 19–5 4.1 **¶16480561**
IDC III 24 05 52 33.0–.61 36.74N 142.25E 0 4.1,4.0
ISCJB III 24 05 52 34.2–.39 36.83N–.03 142.30E–.05 19 4.0b,4.0
NEIC III 24 05 52 38.4–.40 36.83N 142.22E 35 4.3b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=14.1km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.7km az=26.3.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.3km az=127.0.
ISC III 24 06 03 11.7–.97 40.31N–.04 143.75E–.05 14–5 4.6b,4.2s 145 1-116
JMA III 24 06 03 09.7–.40 40.32N 143.73E 6–4 4.5,4.2s **¶16357308**
IDC III 24 06 03 09.4–.65 40.24N 143.76E 0 4.4,4.3
ISCJB III 24 06 03 10.6–.99 40.33N–.03 143.73E–.04 15–6 4.5b,4.1s
BJI III 24 06 03 12.2 40.41N 143.65E 30 5.0b,4.7b
NEIC III 24 06 03 14.0–1.7 40.28N 143.70E 29–12 4.7b,4.7b
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.8km s-min=13.4km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.7km az=39.2.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=127.0.
ISC III 24 06 42 17.4–.88 36.02N–.08 142.2E–.10 23 3.7b 15 3-75
IDC III 24 06 42 14.1–.94 36.03N 142.27E 0 3.9L,3.7 **¶17198298**
ISCJB III 24 06 42 15.5–.72 35.98N–.07 142.23E–.09 23 3.6b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 06 53 37.8–4.1 38.69N–.05 144.05E–.07 17–25 4.1b 74 2-118
IDC III 24 06 53 34.9–.61 38.55N 144.14E 0 4.2,4.1 **¶602690655**
ISCJB III 24 06 53 36.2–1.4 38.68N–.03 144.00E–.04 19–10 4.1b,4.1
NEIC III 24 06 53 36.4–.35 38.62N 144.16E 10 4.3b,4.1
JMA III 24 06 53 37.3–.20 38.70N 144.05E 46 4.4,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=12.6km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.8km az=144.4.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.3km az=138.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 24 07 09 03.0–.30 37.75N 143.74E 42 4.2
¶602690649
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 24 07 28 49.9–.61 37.15N–.05 143.83E–.07 35 4.2b 53 2-92
IDC III 24 07 28 44.4–.79 37.04N 143.96E 0 4.2,4.1 **¶16480569**
NEIC III 24 07 28 46.1–.55 37.14N 143.92E 10 4.3b,4.1
ISCJB III 24 07 28 47.9–.44 37.11N–.04 143.78E–.05 33 4.2b,4.1
JMA III 24 07 28 48.1–.20 37.16N 143.75E 45 4.2,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=16.4km az=98.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.1km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=144.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 24 07 36 33.7–1.3 37.38N–.05 143.2E–.10 24 3.8b 23 2-89
NIED III 24 07 36 00 37.40N 143.10E 14 3.6W **¶17198303**
IDC III 24 07 36 28.1–1.3 37.50N 143.83E 0 3.8,3.7b
ISCJB III 24 07 36 32.1–.90 37.36N–.04 143.19E–.08 24 3.7b,3.7b
JMA III 24 07 36 34.0–.40 37.38N 143.09E 45 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ18.00000°,λ-143.00000°. NP2:ϕ_s246.00000°,δ79.00000°,λ-75.00000°. M_o3.04000×10^{14}
IDC Error ellipse: s-maj=38.3km s-min=23.4km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.3km az=167.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 24 07 40 00.4–.58 37.36N–.05 142.42E–.06 21 4.1b,3.4s 46 1-146
JMA III 24 07 39 57.2–.30 37.43N 142.55E 12 4.3,3.4s **¶16480573**
ISCJB III 24 07 39 58.5–.40 37.35N–.04 142.57E–.05 21 4.1b,3.3s
NEIC III 24 07 40 01.6–2.8 37.39N 142.59E 28–19 4.4b,3.3s
IDC III 24 07 40 03.1–2.5 37.34N 142.50E 42–24 3.9,3.9
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.6km az=151.9.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.2km az=128.0.
IDC Error ellipse: s-maj=18.0km s-min=14.2km az=99.0.
ISC III 24 08 01 47.1–.76 38.26N–.07 144.69E–.07 35 3.5b 40 3-87
IDC III 24 08 01 41.5–.75 38.10N 144.94E 0 3.9,3.8 **¶17198305**
ISCJB III 24 08 01 44.9–.53 38.24N–.05 144.64E–.04 33 3.6b,3.8
JMA III 24 08 01 45.6–.20 38.28N 144.57E 38 4.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.8km s-min=16.6km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.4km az=168.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 24 08 38 58.5–.49 37.63N–.05 144.55E–.06 35 4.3b 85 3-119
IDC III 24 08 38 53.0–.56 37.59N 144.71E 0 4.4,4.3 **¶16462162**
NEIC III 24 08 38 54.9–.28 37.61N 144.67E 10 4.6b,4.3
ISCJB III 24 08 38 56.8–.30 37.61N–.04 144.47E–.03 33 4.3b,4.3
JMA III 24 08 38 57.1–.30 37.63N 144.42E 46 4.6,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.5km s-min=12.8km az=125.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.2km az=156.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 24 09 32 07.5–.80 38.08N–.06 143.96E–.07 35 3.5b 33 2-75
IDC III 24 09 32 02.6–.78 38.03N 144.09E 0 3.8,3.8L **¶17198315**
ISCJB III 24 09 32 05.6–.58 38.08N–.05 143.96E–.05 33 3.6b,3.8L
JMA III 24 09 32 06.1–.30 38.17N 143.90E 39 4.0,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=16.3km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=161.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 24 09 39 23.7–1.4 37.66N 144.32E 0 3.8,3.7b
¶17198316
IDC Error ellipse: s-maj=59.2km s-min=26.7km az=123.0.
ISC III 24 09 47 36.9–1.1 39.1N–.20 144.2E–.10 23 3.5b 10 10-75
IDC III 24 09 47 33.3–1.0 39.07N 144.24E 0 3.8,3.7 **¶17198317**
ISCJB III 24 09 47 34.8–.96 39.1N–.10 144.1E–.20 23 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 09 47 53.1–1.6 36.2N–.20 142.03E–.09 23 3.6b 11 1-70
IDC III 24 09 47 57.0–1.5 37.55N 141.86E 0 3.8,3.6b **¶17198318**
JMA III 24 09 48 08.0–.10 36.12N 141.21E 36–2 3.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=29.6km az=116.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 24 09 53 06.1–3.2 36.98N 143.90E 0 3.6,3.6L
¶17198319

IDC Error ellipse: s-maj=78.0km s-min=36.1km az=60.0.
IDC III 24 09 54 00.5–1.3 37.46N 144.57E 0 3.9,3.8L
¶17198322

IDC Error ellipse: s-maj=37.3km s-min=28.7km az=121.0.
ISC III 24 10 10 44.2–1.0 38.81N–.07 144.15E–.09 23 3.8b 31 2-59
IDC III 24 10 10 39.7–1.1 38.61N 144.34E 0 3.9,3.8 **¶17198324**
ISCJB III 24 10 10 42.9–.74 38.84N–.05 144.11E–.06 23 3.8b,3.8
JMA III 24 10 10 43.0–.20 38.79N 144.20E 42 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=21.1km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.1km az=42.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 24 10 21 54.3–.75 37.72N–.07 144.53E–.07 35 3.7b 34 3-89
IDC III 24 10 21 48.8–.71 37.59N 144.71E 0 4.0,3.9 **¶17198327**
ISCJB III 24 10 21 52.1–.53 37.68N–.05 144.50E–.04 33 3.9s,3.7b
JMA III 24 10 21 53.7–.30 37.68N 144.39E 38 4.3,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=15.7km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.0km az=172.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 24 10 23 48.3–.20 38.14N 143.44E 26 3.6
¶602690345

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 24 10 37 51.7–.61 38.71N–.06 143.29E–.07 15 4.2b 56 1-88
NIED III 24 10 37 00 38.70N 143.30E 26 4.2W **¶602690330**
IDC III 24 10 37 49.0–.60 38.63N 143.34E 0 4.3,4.1
ISCJB III 24 10 37 49.6–.40 38.67N–.04 143.34E–.05 15 4.2b,4.1
JMA III 24 10 37 51.2–.20 38.69N 143.33E 38 4.4,4.1
NEIC III 24 10 37 53.8–2.0 38.66N 143.32E 31–14 4.8b,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ35.00000°,λ94.00000°. NP2:ϕ_s170.00000°,δ55.00000°,λ87.00000°. $M_0$2.24000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=12.4km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=148.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.2km az=123.0.
IDC III 24 10 54 53.2–1.1 38.48N 144.89E 0 3.7,3.5
¶17198329

IDC Error ellipse: s-maj=32.2km s-min=21.0km az=104.0.
ISC III 24 11 47 30.6–.71 39.17N–.05 144.20E–.06 24–4 4.0b,3.3s 79 2-145
IDC III 24 11 47 26.5–.70 39.10N 144.36E 0 4.0,3.9 **¶16359869**
NEIC III 24 11 47 28.4–.37 39.21N 144.30E 10 4.6b,3.9
ISCJB III 24 11 47 28.5–1.5 39.26N–.04 144.21E–.04 20–10 4.0b,3.4s
JMA III 24 11 47 29.9–.30 39.30N 144.19E 33 4.0,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=15.0km az=130.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.2km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=164.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 24 12 03 39.2–1.0 36.47N–.07 143.19E–.09 29 3.6b 22 2-60
NIED III 24 12 03 00 36.70N 143.00E 5 3.6W **¶17198339**
IDC III 24 12 03 34.5–1.0 36.43N 143.43E 0 3.7,3.6
JMA III 24 12 03 37.4–.30 36.66N 142.96E 0 3.6,3.6
ISCJB III 24 12 03 37.4–.74 36.49N–.06 143.18E–.06 29 3.5b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ29.00000°,λ-73.00000°. NP2:ϕ_s184.00000°,δ62.00000°,λ-99.00000°. $M_0$2.54000×10^{14}
ISCJB Event type ke.
ISC III 24 12 06 40.7–.69 39.23N–.04 144.31E–.04 28–4 4.5b,3.9s 142 2-145
NIED III 24 12 06 00 39.30N 144.20E 5 4.3W,3.9s **¶16359870**
IDC III 24 12 06 35.9–.61 39.09N 144.33E 0 4.4,4.3
NEIC III 24 12 06 38.9–2.5 39.14N 144.32E 17–15 4.8b,4.3
ISCJB III 24 12 06 38.5–1.1 39.25N–.03 144.23E–.04 15–6 4.5b,3.6s
BJI III 24 12 06 39.0 39.39N 144.36E 30 4.9b,4.6b
JMA III 24 12 06 40.7–.30 39.32N 144.16E 54 4.6,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ39.00000°,λ-82.00000°. NP2:ϕ_s182.00000°,δ51.00000°,λ-96.00000°. $M_0$3.33000×10^{15}
IDC Error ellipse: s-maj=15.2km s-min=12.5km az=147.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=147.7.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 24 12 20 34.9–.93 38.66N–.06 144.65E–.08 29 3.4b 35 2-72
IDC III 24 12 20 30.5–.96 38.53N 144.70E 0 3.9,3.8 **¶16480613**
ISCJB III 24 12 20 32.8–.68 38.71N–.04 144.68E–.05 29 3.6b,3.8
JMA III 24 12 20 34.0–.30 38.72N 144.67E 43 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=19.9km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.4km az=40.2.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 24 12 21 42.1–.66 39.17N–.07 144.28E–.07 19 4.0b 48 2-87
IDC III 24 12 21 38.6–.65 39.06N 144.43E 0 4.2,4.1 **¶602689584**
ISCJB III 24 12 21 40.8–.45 39.23N–.04 144.24E–.04 19 4.0b,3.2s
NEIC III 24 12 21 42.7–2.2 39.13N 144.39E 25–16 4.0b,3.2s
JMA III 24 12 21 43.5–.30 39.27N 144.12E 32 4.2,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=14.3km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=174.5.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.3km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 24 12 29 14.5–.99 37.23N–.07 142.24E–.07 19 3.4b 18 1-63
JMA III 24 12 29 09.6–.30 37.16N 142.40E 10 3.9 **¶602689578**
IDC III 24 12 29 11.4–1.1 37.16N 142.36E 0 3.6,3.5L
ISCJB III 24 12 29 12.3–.79 37.19N–.06 142.32E–.06 19 3.3b,3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 12 29 58.1–2.4 37.21N–.08 142.13E–.07 1–15 3.6b 23 1-77
IDC III 24 12 29 57.7–.78 37.13N 142.38E 0 3.8,3.7 **¶17198346**
ISCJB III 24 12 29 58.8–1.9 37.19N–.06 142.23E–.07 17–14 3.6b,3.7
JMA III 24 12 29 59.8–.40 37.24N 142.04E 3–4 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=16.5km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.3km az=27.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 12 34 29.7–.78 37.78N–.08 142.76E–.05 18 3.6b 24 1-89
IDC III 24 12 34 27.3–.81 37.96N 143.21E 0 3.7,3.6 **¶17198347**
JMA III 24 12 34 30.5–.30 38.03N 142.74E 0 4.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=20.1km az=119.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 24 12 37 36.6–.80 37.13N–.05 142.23E–.07 19 3.5b 26 1-74
JMA III 24 12 37 32.6–.20 37.16N 142.28E 0 4.1 **¶17198348**
IDC III 24 12 37 33.8–.88 37.09N 142.38E 0 3.8L,3.7
ISCJB III 24 12 37 34.6–.58 37.09N–.04 142.31E–.06 19 3.4b,2.6s
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 12 42 19.5–.76 36.28N–.06 142.58E–.07 15 3.6b 31 2-90
IDC III 24 12 42 16.9–.79 36.21N 142.75E 0 3.8,3.6 **¶17198349**
ISCJB III 24 12 42 18.2–.60 36.30N–.06 142.57E–.05 15 3.6b,3.6
JMA III 24 12 42 21.3–.20 36.34N 142.51E 53 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=18.8km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.5km az=165.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 13 02 32.9–.43 37.96N–.04 143.99E–.04 35 4.5b,3.7s 115 2-153
NIED III 24 13 02 00 37.90N 143.90E 5 4.4W,3.7s **¶16359871**
IDC III 24 13 02 27.6–.51 37.81N 144.12E 0 4.5,4.4
JMA III 24 13 02 30.8–.30 37.92N 143.94E 46 4.7,4.4
NEIC III 24 13 02 31.2–.75 37.86N 144.03E 22–5 4.7b,4.4
ISCJB III 24 13 02 31.4–.24 37.93N–.03 143.92E–.03 33 4.5b,3.6s
BJI III 24 13 02 35.5 38.14N 143.48E 33 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ22.00000°,λ-92.00000°. NP2:ϕ_s196.00000°,δ68.00000°,λ-89.00000°. $M_0$4.92000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.0km az=123.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=134.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=169.0.
ISC III 24 13 15 01.9–1.4 36.40N–.05 142.3E–.10 15 3.5b 15 1-57
IDC III 24 13 15 01.4–2.8 36.28N 142.33E 0 3.7,3.6 **¶17198354**
ISCJB III 24 13 15 01.5–1.1 36.38N–.05 142.3E–.10 15 3.5b,3.6
JMA III 24 13 15 03.5–.20 36.46N 142.28E 52 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=60.8km s-min=27.8km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.1km az=172.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 13 15 36.8–1.1 37.7N–.10 143.7E–.10 35 3.7b 12 5-62
IDC III 24 13 15 32.0–1.1 37.77N 143.75E 0 3.9,3.9L **¶17198357**
ISCJB III 24 13 15 34.6–.88 37.73N–.09 143.7E–.10 33 3.6b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 13 26 17.7–.68 36.98N–.05 142.25E–.07 19 3.8b 40 1-75
NIED III 24 13 26 00 37.00N 142.20E 20 4.0W **¶16480631**
ISCJB III 24 13 26 15.6–.46 36.94N–.03 142.33E–.06 19 3.8b,3.1s
IDC III 24 13 26 15.3–.77 36.99N 142.27E 0 3.9,3.9
JMA III 24 13 26 18.1–.50 37.01N 142.23E 41 4.3,3.9
NEIC III 24 13 26 20.0–.50 36.98N 142.25E 35 4.7b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ17.00000°,λ122.00000°. NP2:ϕ_s24.00000°,δ76.00000°,λ81.00000°. $M_0$1.02000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=15.3.
IDC Error ellipse: s-maj=18.7km s-min=14.4km az=104.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.0km az=120.0.
ISC III 24 13 30 23.9–1.1 39.12N–.06 144.10E–.09 23 3.6b 27 2-63
NIED III 24 13 30 00 39.20N 144.10E 5 3.7W **¶17198359**
IDC III 24 13 30 19.9–1.1 39.01N 144.30E 0 3.8,3.7
ISCJB III 24 13 30 22.0–.75 39.12N–.05 144.14E–.07 23 3.5b,3.7
JMA III 24 13 30 24.3–.20 39.16N 144.07E 49 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ37.00000°,λ-46.00000°. NP2:ϕ_s347.00000°,δ64.00000°,λ-117.00000°. $M_0$3.37000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=20.4km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.2km az=32.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 24 13 42 42.1–1.5 37.2N–.10 142.1E–.10 21 3.4b 10 1-61
IDC III 24 13 42 37.7–2.9 37.02N 142.66E 0 3.4,3.3b **¶600565203**
ISCJB III 24 13 42 45.2–1.7 37.4N–.10 141.9E–.10 21 3.3b,3.3b
JMA III 24 13 42 46.3–.20 37.32N 141.85E 26–3 3.1,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=75.9km s-min=30.8km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=13.4km az=5.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 13 51 11.2–1.9 36.77N–.06 143.6E–.10 35 3.5b 17 2-57
ISCJB III 24 13 51 10.3–1.4 36.84N–.07 143.6E–.10 33 3.5b **¶17198363**
JMA III 24 13 51 11.7–.40 36.89N 143.50E 35 3.9
IDC III 24 13 51 11.2–2.2 36.24N 143.58E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=8.1km az=155.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=46.2km s-min=26.1km az=80.0.
ISC III 24 13 54 23.0–.72 36.62N–.05 143.80E–.07 35 3.5b 33 2-89
IDC III 24 13 54 17.7–.92 36.46N 144.06E 0 3.8,3.8L **¶17198364**
ISCJB III 24 13 54 21.4–.53 36.63N–.05 143.79E–.05 33 3.5b,3.8L
JMA III 24 13 54 22.3–.20 36.67N 143.76E 54 4.3,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=39.6km s-min=19.5km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.5km az=3.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 24 14 25 07.4–1.2 37.54N 144.81E 0 4.1,3.9
¶17198370

IDC Error ellipse: s-maj=54.3km s-min=22.1km az=127.0.
ISC III 24 14 33 13.6–1.7 36.68N–.06 143.8E–.10 35 3.6b 22 2-61
IDC III 24 14 33 12.7–1.8 36.17N 143.80E 0 3.9,3.8 **¶17198372**
ISCJB III 24 14 33 12.3–1.0 36.70N–.06 143.73E–.08 33 3.8b,3.8
JMA III 24 14 33 14.4–.40 36.78N 143.64E 50 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=42.5km s-min=22.1km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.7km az=147.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 24 14 36 28.3–1.4 37.24N 142.38E 0 3.6,3.4b
¶17198373

IDC Error ellipse: s-maj=36.7km s-min=30.0km az=109.0.
ISC III 24 14 43 40.1–.68 37.25N–.06 142.52E–.07 10 3.8b 28 1-89
ISCJB III 24 14 43 38.8–.56 37.27N–.06 142.55E–.06 10 3.9b **¶17198376**
IDC III 24 14 43 39.1–.77 37.26N 142.52E 0 4.0,3.9b
JMA III 24 14 43 40.7–.30 37.28N 142.60E 30 4.1,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.2km az=17.7.
IDC Error ellipse: s-maj=19.3km s-min=17.5km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 24 14 48 39.7–.20 39.16N 144.03E 21 3.7
¶602689421

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 24 14 58 04.1–1.0 39.06N–.08 144.15E–.08 23 3.6b 31 2-63
IDC III 24 14 57 59.9–1.0 38.87N 144.28E 0 3.7,3.6 **¶17198378**
ISCJB III 24 14 58 02.5–.70 39.04N–.06 144.16E–.06 23 3.5b,3.6
JMA III 24 14 58 03.2–.10 39.13N 144.18E 36 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=18.3km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.2km az=178.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 24 15 41 44.4–1.2 39.24N–.06 144.35E–.08 19 3.5b 31 2-60
IDC III 24 15 41 41.0–2.4 39.12N 144.64E 0 3.7,3.7L **¶17198381**
ISCJB III 24 15 41 44.7–.95 39.31N–.05 144.21E–.07 19 3.5b,3.7L
JMA III 24 15 41 45.7–.20 39.24N 144.16E 27 3.7,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=65.7km s-min=27.4km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.8km az=37.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 24 15 58 20.4–.47 36.59N–.04 144.03E–.05 35 5.0s,4.7b 167 3-145
IDC III 24 15 58 15.0–.61 36.43N 144.19E 0 5.1,5.1s **¶602688978**
BJI III 24 15 58 17.5 36.73N 144.34E 36 5.1b,5.0s
ISCJB III 24 15 58 18.9–.23 36.63N–.03 143.92E–.03 33 4.9s,4.6b
JMA III 24 15 58 19.0–.30 36.63N 143.96E 61 4.2,4.6b
NEIC III 24 15 58 20.4–.24 36.44N 144.09E 35 4.8b,4.6b
MOS III 24 15 58 20.3–1.6 37.01N 143.98E 33 4.8b,4.6b
ISC Event type ke.
IDC Error ellipse: s-maj=17.1km s-min=14.7km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=170.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.3km az=162.0.
MOS Error ellipse: s-maj=9.1km s-min=6.5km az=99.5.
ISC III 24 16 21 30.4–.76 37.47N–.05 143.91E–.07 35 4.0b 46 2-88
IDC III 24 16 21 25.5–.74 37.28N 144.33E 0 4.0,3.9 **¶16480664**
ISCJB III 24 16 21 28.9–.43 37.38N–.04 143.92E–.04 33 4.0b,3.9
JMA III 24 16 21 29.6–.40 37.42N 143.84E 45 4.2,3.9
NEIC III 24 16 21 30.7–.45 37.25N 144.20E 35 4.7b,3.9
ISC Event type se.

IDC Error ellipse: s-maj=19.8km s-min=14.9km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=170.3.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.9km az=145.0.

ISC	**III**	**24 17 06 28.8–1.2**	**37.88N–.05**	**142.54E–.09**	**14**	**3.5b**	**20**	**1-58**
JMA	III	24 17 06 26.7–.30	37.87N	142.62E	1–3	4.1		**¶17198385**
IDC	III	24 17 06 26.6–1.6	37.88N	142.74E	0	3.7,3.6		
ISCJB	III	24 17 06 27.2–.95	37.85N–.06	142.73E–.09	14	3.4b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**24 17 27 17.5–.91**	**36.19N–.06**	**142.51E–.07**	**18**	**3.5b**	**25**	**1-64**
IDC	III	24 17 27 14.3–.99	36.21N	142.68E	0	3.6,3.5		**¶16480672**
ISCJB	III	24 17 27 15.2–.77	36.27N–.06	142.67E–.08	18	3.4b,3.5		
JMA	III	24 17 27 17.5–.20	36.35N	142.57E	38	3.6,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=18.1km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.2km az=135.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**24 17 27 38.0–.78**	**36.12N–.10**	**142.7E–.10**	**18**	**3.9b**	**23**	**4-146**
IDC	III	24 17 27 35.0–.78	36.15N	142.69E	0	4.2,4.2s		**¶17198386**
ISCJB	III	24 17 27 36.0–.64	36.15N–.06	142.66E–.09	18	3.8b,4.2s		
NEIC	III	24 17 27 40.4–1.4	36.18N	142.62E	36–13	4.1b,4.2s		

ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=18.8km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.9km az=28.6.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=10.1km az=69.0.

ISC	**III**	**24 17 41 03.5–.72**	**37.01N–.05**	**143.40E–.07**	**35**	**3.9b**	**33**	**2-118**
IDC	III	24 17 40 58.7–.73	36.86N	143.87E	0	4.1,4.0		**¶16480673**
JMA	III	24 17 41 01.6–.40	37.12N	143.47E	54	3.7,4.0		
ISCJB	III	24 17 41 01.3–.56	37.00N–.05	143.46E–.06	33	4.0b,4.0		
NEIC	III	24 17 41 03.8–.61	36.80N	143.65E	35	4.7b,4.0		

ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=16.2km az=104.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=6.3km az=19.8.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=12.1km az=127.0.

ISC	**III**	**24 17 43 17.5–.62**	**36.25N–.05**	**142.57E–.07**	**18**	**3.9b**	**45**	**1-146**
IDC	III	24 17 43 14.6–.65	36.20N	142.68E	0	4.0,3.9		**¶16480674**
ISCJB	III	24 17 43 15.6–.46	36.22N–.04	142.64E–.05	18	3.8b,3.9		
JMA	III	24 17 43 19.0–.20	36.33N	142.50E	62	3.7,3.9		
NEIC	III	24 17 43 19.6–.32	36.18N	142.63E	35	4.6b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=16.2km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=38.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.5km az=123.0.

ISC	**III**	**24 18 06 08.0–2.2**	**39.76N–.05**	**143.43E–.07**	**0–12**	**3.8b**	**36**	**1-75**
IDC	III	24 18 06 07.4–.79	39.65N	143.46E	0	3.9,3.7		**¶17198389**
JMA	III	24 18 06 09.4–.30	39.78N	143.42E	18–5	4.1,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=21.7km s-min=16.6km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**24 18 08 50.2–.95**	**37.0N–.10**	**144.7E–.10**	**26**	**3.5b**	**10**	**5-76**
IDC	III	24 18 08 46.2–.87	36.98N	144.94E	0	3.8,3.7L		**¶17198390**
ISCJB	III	24 18 08 48.0–.83	37.0N–.10	144.6E–.10	26	3.5b,3.7L		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**24 18 17 46.9–.77**	**36.1N–.10**	**142.58E–.10**	**18**	**4.2b**	**32**	**4-146**
IDC	III	24 18 17 43.9–.69	36.09N	142.58E	0	4.3,4.1		**¶17198391**
ISCJB	III	24 18 17 44.8–.59	36.07N–.09	142.58E–.08	18	4.2b,4.1		
NEIC	III	24 18 17 49.1–.52	36.09N	142.55E	35	4.6b,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=16.3km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=9.5km az=173.1.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=9.3km az=172.0.

ISC	**III**	**24 18 23 12.9–.74**	**38.18N–.06**	**144.32E–.07**	**35**	**3.6b**	**36**	**2-88**
IDC	III	24 18 23 07.3–.78	38.03N	144.51E	0	3.8,3.7		**¶17198393**
ISCJB	III	24 18 23 10.6–.55	38.10N–.06	144.32E–.04	33	3.6b,3.7		
JMA	III	24 18 23 11.3–.20	38.18N	144.25E	34	4.0,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=16.8km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.8km az=174.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**24 18 29 09.7–.69**	**37.27N–.04**	**143.74E–.07**	**35**	**4.1b**	**55**	**2-88**
IDC	III	24 18 29 04.5–.68	37.11N	144.05E	0	4.1,4.0L		**¶16480682**
ISCJB	III	24 18 29 07.9–.45	37.29N–.04	143.78E–.04	33	4.0b,4.0L		
JMA	III	24 18 29 08.3–.30	37.29N	143.77E	57	4.3,4.0L		
NEIC	III	24 18 29 09.5–.44	37.07N	143.99E	35	4.5b,4.0L		

ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=14.2km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.9km az=158.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.5km az=118.0.

ISC	**III**	**24 19 05 03.0–1.1**	**37.64N–.07**	**143.68E–.08**	**35**	**3.5b**	**27**	**2-62**
IDC	III	24 19 04 58.0–1.2	37.48N	143.75E	0	3.6,3.4		**¶17198394**
ISCJB	III	24 19 05 01.0–.77	37.63N–.05	143.69E–.06	33	3.5b,3.4		
JMA	III	24 19 05 01.5–.20	37.64N	143.61E	31	3.8,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=32.5km s-min=21.8km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.9km az=152.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**III**	**24 19 16 11.0–.50**	**37.56N**	**142.17E**	**15**	**3.4**		
								¶603049987

JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

ISC	**III**	**24 19 16 42.7–1.0**	**37.8N–.10**	**144.1E–.10**	**10**	**4.0b**	**17**	**4-62**
ISCJB	III	24 19 16 40.8–.72	37.79N–.09	144.1E–.10	10	3.9b		**¶16480685**
IDC	III	24 19 16 41.6–.89	37.85N	144.13E	0	3.9,3.8		
NEIC	III	24 19 16 46.6–.64	37.83N	143.96E	35	4.2b,3.8		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=12.0km az=28.4.
IDC Error ellipse: s-maj=24.1km s-min=18.2km az=99.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=10.8km az=115.0.

ISC	**III**	**24 19 17 18.6–.40**	**38.11N–.03**	**143.60E–.03**	**24–2**	**5.3b,5.2s**	**974**	**2-159**
NIED	III	24 19 17 00	38.20N	143.60E	8	5.3W,5.2s		**¶17198395**
ISCJB	III	24 19 17 14.0–.73	38.04N–.02	143.58E–.02	4–4	5.2b,5.2s		
IDC	III	24 19 17 14.6–.33	38.01N	143.66E	0	5.1,5.0		
BJI	III	24 19 17 16.9	38.09N	143.34E	12	5.4b,5.4s		
NEIC	III	24 19 17 18.5–1.3	37.99N	143.59E	24–9	5.3b,5.4s		
MOS	III	24 19 17 18.6–.95	38.27N	143.52E	26	5.4b,5.1s		
GCMT	III	24 19 17 18.5–.20	38.12N	143.67E	12	5.4W,5.1s		
JMA	III	24 19 17 18.1–.20	38.16N	143.55E	46	5.4,5.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ26.00000°,λ-101.00000°. NP2:ϕ_s201.00000°,δ64.00000°,λ-84.00000°. $M_0$1.16000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.1km az=160.9.
IDC Error ellipse: s-maj=11.0km s-min=8.2km az=110.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=138.0.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=106.7.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c50; s106,c200; Duration: 1ŧ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.16±.02 $M_{\theta\theta}$0.06±.02; $M_{\phi\phi}$1.10±.02; $M_{r\theta}$0.06±.09; $M_{\theta\phi}$0.50±.02; $M_{\phi r}$0.54±.07; Best double couple: NP1:ϕ_s195.00000°,δ57.00000°,λ-98.00000°. NP2:ϕ_s30.00000°,δ34.00000°,λ-78.00000°. Principal axes: T 1.4080,Plg12.0000°,Azm291.0000°; N -0.1240,Plg7.0000°,Azm199.0000°; P -1.2830,Plg77.0000°,Azm80.0000° $M_0$1.34600×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**24 19 20 09.1–4.1**	**38.02N–.05**	**143.58E–.07**	**31–29**	**4.5b**	**62**	**2-145**
IDC	III	24 19 20 04.1–.64	37.94N	143.84E	0	4.7,4.5		**¶16462166**
NEIC	III	24 19 20 06.8–2.8	37.97N	143.74E	16–17	4.6b,4.5		
JMA	III	24 19 20 07.8–.30	38.08N	143.40E	22	4.6,4.5		
ISCJB	III	24 19 20 07.4–1.6	38.02N–.04	143.54E–.04	31–12	4.5b,4.5		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC	**III**	**24 19 22 02.7–.55**	**38.05N–.05**	**143.62E–.05**	**24–3**	**4.9s,4.9b**	**264**	**2-145**
IDC	III	24 19 21 58.9–.59	37.98N	143.66E	0	4.8,4.7		**¶16358668**
NIED	III	24 19 22 00	38.30N	142.20E	32	4.5W,4.7		
NEIC	III	24 19 22 02.7–.50	38.01N	143.62E	20–3	5.0b,4.7		
MOS	III	24 19 22 02.8–1.5	38.14N	143.66E	33	5.0b,4.7		
ISCJB	III	24 19 22 03.1–.21	38.03N–.04	143.51E–.03	37	4.9s,4.8b		
BJI	III	24 19 22 05.5	38.03N	143.11E	33	5.1b,5.1s		
JMA	III	24 19 22 16.4–.20	38.29N	142.21E	35–3	4.2,5.1s		

ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=12.2km az=149.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ55.00000°,λ162.00000°. NP2:ϕ_s51.00000°,δ75.00000°,λ37.00000°. $M_0$7.11000×10^{15}
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.3km az=149.0.
MOS Error ellipse: s-maj=8.6km s-min=5.7km az=83.8.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=2.8km az=161.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**III**	**24 19 30 57.1–.74**	**38.05N–.05**	**143.51E–.08**	**19**	**4.0b**	**44**	**2-74**
IDC	III	24 19 30 53.5–.77	37.95N	143.77E	0	4.0,3.9		**¶16480688**
ISCJB	III	24 19 30 54.9–.49	38.03N–.04	143.56E–.05	19	4.0b,3.9		
JMA	III	24 19 30 56.8–.20	38.08N	143.48E	32	4.0,3.9		
NEIC	III	24 19 30 58.8–.57	37.99N	143.70E	35	4.5b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=14.9km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.4km az=37.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.9km az=124.0.

ISC	**III**	**24 19 31 53.9–.62**	**37.96N–.06**	**143.63E–.06**	**19**	**4.1b**	**40**	**2-83**
IDC	III	24 19 31 51.0–.71	37.95N	143.66E	0	4.1,4.1		**¶16480691**
ISCJB	III	24 19 31 52.3–.44	37.99N–.05	143.60E–.04	19	4.1b,4.1		
NEIC	III	24 19 31 56.3–.54	37.95N	143.79E	35	4.6b,4.1		
JMA	III	24 19 32 16.3–.70	38.28N	142.46E	59	3.3,4.1		

ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=14.2km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.9km az=170.6.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.5km az=132.0.
JMA Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.

ISC	**III**	**24 20 04 51.5–.78**	**38.03N–.06**	**143.55E–.07**	**19**	**3.7b**	**32**	**2-69**
IDC	III	24 20 04 48.3–.76	37.96N	143.66E	0	3.8,3.7		**¶17198402**
ISCJB	III	24 20 04 49.7–.55	38.06N–.05	143.59E–.05	19	3.7b,3.7		
JMA	III	24 20 04 51.7–.30	38.11N	143.41E	13	4.0,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=15.3km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.3km az=2.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**24 20 26 49.4–.62**	**37.78N–.06**	**143.26E–.07**	**19**	**4.0b**	**42**	**2-75**
IDC	III	24 20 26 46.8–.66	37.80N	143.34E	0	4.0,3.9		**¶16480698**
JMA	III	24 20 26 47.5–.40	37.79N	143.09E	4	4.2,3.9		
ISCJB	III	24 20 26 47.4–.45	37.75N–.04	143.27E–.05	19	4.0b,3.9		
NEIC	III	24 20 26 51.6–.55	37.77N	143.30E	35	4.3b,3.9		

ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=92.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.8km az=139.7.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.6km az=105.0.

ISC	**III**	**24 20 29 02.7–1.1**	**37.01N–.04**	**143.65E–.06**	**23–6**	**4.3b,3.8s**	**93**	**2-145**
IDC	III	24 20 28 58.6–.61	36.90N	143.77E	0	4.3,4.2		**¶16373219**
NEIC	III	24 20 28 59.1–4.6	36.96N	143.81E	2–28	4.6b,4.2		
ISCJB	III	24 20 29 00.7–1.4	37.01N–.03	143.58E–.04	19–9	4.3b,3.7s		
JMA	III	24 20 29 02.0–.20	37.04N	143.61E	48	4.5,3.7s		

ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=13.9km az=99.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.4km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.3km az=144.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**24 20 39 42.2–.72**	**39.49N–.07**	**143.09E–.06**	**18**	**4.0b**	**31**	**1-81**
NIED	III	24 20 39 00	39.50N	143.20E	20	4.2W		**¶602688418**
ISCJB	III	24 20 39 40.4–.53	39.50N–.05	143.27E–.05	18	3.9b		
JMA	III	24 20 39 41.3–.20	39.48N	143.18E	18–3	4.4		
IDC	III	24 20 39 46.6–3.2	39.50N	143.11E	54–29	4.0,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s128.00000°,δ45.00000°,λ16.00000°. NP2:ϕ_s26.00000°,δ78.00000°,λ134.00000°. $M_0$2.27000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=166.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.1km s-min=15.6km az=105.0.

IDC	**III**	**24 20 47 46.9–2.3**	**38.40N**	**143.18E**	**0**	**3.4,3.3**		
								¶17198406

IDC Error ellipse: s-maj=65.7km s-min=22.9km az=64.0.

ISC	**III**	**24 21 42 28.8–1.4**	**37.16N–.05**	**143.89E–.10**	**35**	**3.4b**	**36**	**2-61**
NIED	III	24 21 42 00	37.30N	143.70E	5	3.7W		**¶17198409**
IDC	III	24 21 42 26.2–2.0	36.73N	143.93E	0	3.7,3.6		
ISCJB	III	24 21 42 27.6–.81	37.14N–.04	143.82E–.06	33	3.4b,3.6		
JMA	III	24 21 42 29.1–.30	37.26N	143.74E	32	3.7,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ24.00000°,λ-99.00000°. NP2:ϕ_s195.00000°,δ67.00000°,λ-86.00000°. $M_0$3.35000×10^{14}
IDC Error ellipse: s-maj=44.3km s-min=23.0km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.6km az=18.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC	**III**	**24 21 51 25.3–1.0**	**37.12N–.06**	**144.47E–.09**	**26**	**3.7b**	**36**	**3-62**
NIED	III	24 21 51 00	37.10N	144.40E	8	3.7W		**¶17198411**
IDC	III	24 21 51 20.5–1.3	36.85N	144.83E	0	3.7,3.6		
ISCJB	III	24 21 51 22.6–.68	37.13N–.04	144.48E–.06	26	3.6b,3.6		
JMA	III	24 21 51 24.8–.60	37.07N	144.41E	57	3.9,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ29.00000°,λ-91.00000°. NP2:ϕ_s170.00000°,δ61.00000°,λ-90.00000°. $M_0$3.53000×10^{14}
IDC Error ellipse: s-maj=31.8km s-min=22.2km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.1km az=21.7.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.

JMA	**III**	**24 22 22 09.0–.20**	**38.85N**	**143.99E**	**26**	**3.6**		
								¶602689074

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**III**	**24 22 26 25.4–1.9**	**36.43N–.10**	**142.5E–.10**	**10**	**3.6b**	**13**	**2-47**
IDC	III	24 22 26 25.6–5.1	36.24N	142.15E	0	3.6,3.6b		**¶17198412**
JMA	III	24 22 26 53.4–.10	35.25N	141.17E	31–3	2.7,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=93.2km s-min=39.4km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**III**	**24 22 28 58.8–.34**	**36.28N–.04**	**142.58E–.03**	**28–1**	**4.8b,4.3s**	**368**	**2-154**
IDC	III	24 22 28 53.9–.48	36.19N	142.71E	0	4.6,4.5		**¶16358674**
ISCJB	III	24 22 28 56.4–.87	36.29N–.03	142.55E–.02	21–6	4.8b,4.2s		
BJI	III	24 22 28 57.1	36.33N	142.51E	26	5.1b,4.8b		
JMA	III	24 22 28 58.1–.20	36.26N	142.53E	63	4.9,4.8b		
MOS	III	24 22 28 59.6–.96	36.65N	142.50E	33	4.9b,4.8b		
NEIC	III	24 22 29 00.3–.29	36.25N	142.59E	39–2	4.9b,4.8b		

ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=11.6km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=171.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=4.9km az=115.1.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=148.0.

JMA	**III**	**24 22 40 10.6–.30**	**37.99N**	**142.88E**	**20**	**3.8**		
								¶602689057

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**III**	**24 22 55 39.4–.57**	**37.62N–.04**	**143.45E–.04**	**26–3**	**4.7b,3.9s**	**277**	**2-145**
IDC	III	24 22 55 35.4–.52	37.63N	143.46E	0	4.5,4.4		**¶16358676**
ISCJB	III	24 22 55 37.2–1.0	37.70N–.03	143.37E–.03	18–7	4.6b,3.9s		

JMA III 24 22 55 38.5–.30 37.79N 143.36E 31 4.5,3.9s
BJI III 24 22 55 39.2 37.85N 143.40E 34 5.0b,4.7s
MOS III 24 22 55 39.3–1.0 37.70N 143.39E 33 4.7b,4.7s
NEIC III 24 22 55 41.5–.59 37.65N 143.38E 38–4 4.8b,4.7s
ISC Event type ke.
IDC Error ellipse: s-maj=14.5km s-min=11.2km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=5.5km az=108.3.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=3.2km az=154.0.
ISC III 24 22 59 42.3–3.5 37.12N–.04 142.38E–.07 6–22 3.8b 32 1-69
IDC III 24 22 59 41.1–1.4 37.16N 142.64E 0 3.8,3.8 **¶17198414**
JMA III 24 22 59 43.1–.20 37.14N 142.42E 16–3 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=31.2km s-min=25.1km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 24 23 01 28.9–.79 38.02N–.04 143.60E–.04 29–5 4.7b,4.0s 225 2-145
IDC III 24 23 01 24.1–.51 37.95N 143.66E 0 4.6,4.5 **¶16359872**
ISCJB III 24 23 01 26.2–.94 38.02N–.03 143.55E–.02 15–6 4.7b,3.9s
JMA III 24 23 01 26.9–.30 38.08N 143.58E 44 4.5,3.9s
NEIC III 24 23 01 29.1–1.4 38.01N 143.62E 28–10 4.8b,3.9s
BJI III 24 23 01 33.9 38.27N 142.88E 47 4.9b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=11.0km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=159.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.0km az=136.0.
ISC III 24 23 34 05.2–.88 37.85N–.06 143.98E–.07 35 3.7b 34 2-62
IDC III 24 23 33 60.0–.93 37.67N 144.16E 0 3.8,3.7 **¶17198419**
JMA III 24 23 34 03.0–.30 37.81N 143.91E 49 4.1,3.7
ISCJB III 24 23 34 03.2–.61 37.84N–.05 143.94E–.05 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 23 37 20.7–1.2 37.5N–.20 143.8E–.10 35 3.8b 7 2-62
IDC III 24 23 37 15.6–1.2 37.47N 143.82E 0 3.8,3.6 **¶600565731**
ISCJB III 24 23 37 18.3–1.0 37.64N–.09 143.73E–.09 33 3.8b,3.5s
JMA III 24 23 37 44.3–.20 38.31N 142.57E 21 2.6,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=35.4km s-min=25.9km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=9.6km az=27.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 25 00 09 08.9–1.0 36.35N–.05 142.65E–.07 15 3.9b 27 2-77
NIED III 25 00 09 00 36.40N 142.80E 5 4.0W **¶603049989**
ISCJB III 25 00 09 07.4–.76 36.36N–.05 142.80E–.06 15 3.8b
JMA III 25 00 09 09.7–.10 36.36N 142.77E 54 3.9
IDC III 25 00 09 26.2–2.7 35.80N 141.25E 131–24 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ34.00000°,λ-117.00000°. NP2:ϕ_s197.00000°,δ60.00000°,λ-73.00000°. $M_0$1.07000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=7.0km az=174.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=16.8km az=80.0.
ISC III 25 00 09 22.4–1.0 36.1N–.10 142.7E–.10 18 4.0b 17 4-90
IDC III 25 00 09 19.4–1.1 36.21N 142.85E 0 4.0,3.9b **¶16480732**
ISCJB III 25 00 09 20.4–.76 36.12N–.10 142.7E–.10 18 4.0b,2.4s
NEIC III 25 00 09 24.8–3.3 36.16N 142.64E 34–22 4.2b,2.4s
ISC Event type se.
IDC Error ellipse: s-maj=36.4km s-min=20.9km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=13.4km az=142.9.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.2km az=125.0.
JMA III 25 01 13 02.7–.30 37.10N 143.58E 43 3.5
¶602693397
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 25 01 20 55.7–.52 37.36N–.05 143.13E–.06 26–2 4.1b 79 2-145
ISCJB III 25 01 20 53.9–1.5 37.34N–.04 143.11E–.05 26–11 4.0b **¶600565920**
JMA III 25 01 20 55.0–.20 37.35N 143.05E 46 4.0
NEIC III 25 01 20 56.8–.45 37.37N 143.28E 35 4.3b
IDC III 25 01 20 57.2–.59 37.36N 143.25E 35–3 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=142.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.0km az=151.0.
IDC Error ellipse: s-maj=14.3km s-min=13.0km az=162.0.
ISC III 25 01 32 14.9–3.5 36.20N–.06 142.56E–.07 16–23 3.9b,3.9s 38 1-90
NIED III 25 01 32 00 36.30N 142.50E 26 3.5W,3.9s **¶602693383**
IDC III 25 01 32 12.4–.91 36.18N 142.80E 0 3.8,3.8s
JMA III 25 01 32 16.2–.30 36.31N 142.48E 25 3.6,3.8s
NEIC III 25 01 32 17.6–.52 36.20N 142.64E 35 4.3b,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ16.00000°,λ-83.00000°. NP2:ϕ_s213.00000°,δ74.00000°,λ-92.00000°. $M_0$2.35000×10^{14}
IDC Error ellipse: s-maj=25.8km s-min=19.5km az=55.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=9.5km az=176.0.
ISC III 25 01 42 54.4–.53 38.04N–.05 143.58E–.06 19 4.0b 64 2-88
IDC III 25 01 42 51.3–.66 38.00N 143.61E 0 4.2,4.0 **¶16480750**
ISCJB III 25 01 42 52.5–.38 38.00N–.04 143.55E–.04 19 4.1b,4.0
JMA III 25 01 42 54.3–.50 38.11N 143.50E 32 4.2,4.0
NEIC III 25 01 42 55.0–2.1 37.94N 143.60E 26–15 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.5km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=152.0.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.2km az=126.0.
IDC III 25 02 13 24.3–3.1 36.20N 143.20E 0 3.6,3.5b
¶17198442
IDC Error ellipse: s-maj=91.0km s-min=26.1km az=58.0.
ISC III 25 02 52 35.3–.50 37.30N–.05 143.01E–.06 34–1 4.2b,3.9s 81 2-89
JMA III 25 02 52 32.5–.30 37.35N 143.07E 43 4.3,3.9s **¶16462169**
NEIC III 25 02 52 32.7–4.4 37.33N 143.06E 15–27 4.4b,3.9s
ISCJB III 25 02 52 33.5–.88 37.27N–.04 143.00E–.05 34–8 4.2b,3.8s
IDC III 25 02 52 35.3–.51 37.30N 143.05E 33–3 4.0,4.0
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.2km az=39.8.
IDC Error ellipse: s-maj=13.4km s-min=11.1km az=155.0.
ISC III 25 03 04 05.1–1.2 37.6N–.20 143.9E–.20 35 3.2b 8 5-66
IDC III 25 03 03 59.9–1.2 37.61N 143.92E 0 3.9,3.9s **¶17198446**
ISCJB III 25 03 04 02.5–1.1 37.5N–.20 143.9E–.20 33 4.0s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 03 08 03.2–4.9 37.54N–.08 142.6E–.20 7–28 3.5b 14 1-61
IDC III 25 03 08 01.0–2.9 37.55N 143.08E 0 3.6,3.5b **¶17198447**
JMA III 25 03 08 02.8–.40 37.56N 142.58E 0 3.7,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=74.4km s-min=33.2km az=54.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC III 25 04 43 41.8–13 36.34N 142.33E 0 3.5b,3.3
¶17198449
IDC Error ellipse: s-maj=238.0km s-min=83.8km az=147.0.
JMA III 25 04 44 42.5–.30 38.35N 143.84E 3 3.8
¶602693047
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 25 05 13 46.9–.37 37.90N–.05 143.07E–.04 18 4.7b,4.2s 193 1-145
NIED III 25 05 13 00 38.00N 143.10E 11 4.5W,4.2s **¶16359875**
IDC III 25 05 13 44.0–.50 37.91N 143.13E 0 4.5,4.4
ISCJB III 25 05 13 45.4–.21 37.91N–.03 143.08E–.03 18 4.7b,4.1s
BJI III 25 05 13 46.4 37.97N 143.07E 30 4.9b,4.7b
JMA III 25 05 13 46.2–.20 37.96N 143.14E 36 4.6,4.7b
NEIC III 25 05 13 47.1–2.0 37.92N 143.06E 18–12 4.8b,4.7b

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ27.00000°,λ-80.00000°. NP2:ϕ_s300.00000°,δ64.00000°,λ-95.00000°. $M_0$6.75000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.0km az=139.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.0km az=156.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=132.0.
JMA III 25 05 18 58.1–.30 37.88N 144.59E 31 3.9
¶602692974
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 25 05 24 51.1–.54 37.58N–.05 143.73E–.06 35 4.3b 78 2-146
IDC III 25 05 24 45.5–.62 37.51N 143.97E 0 4.2,4.0 **¶16480721**
NEIC III 25 05 24 47.0–3.9 37.50N 143.92E 7–24 4.7b,4.0
ISCJB III 25 05 24 49.0–.31 37.53N–.04 143.70E–.04 33 4.2b,4.0
JMA III 25 05 24 49.4–.20 37.57N 143.66E 44 4.0,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.1km az=107.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.6km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.8km az=160.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 25 05 28 33.5–12 36.39N 143.23E 0 3.7b,3.6
¶17198453
IDC Error ellipse: s-maj=237.2km s-min=79.4km az=148.0.
ISC III 25 05 29 38.3–.45 36.18N–.05 142.62E–.06 18 4.5b 97 2-148
IDC III 25 05 29 35.7–.62 36.16N 142.64E 0 4.2,4.0 **¶602692946**
ISCJB III 25 05 29 37.1–.27 36.23N–.04 142.60E–.03 18 4.4b,2.9s
NEIC III 25 05 29 39.6–2.3 36.20N 142.61E 24–16 4.8b,2.9s
JMA III 25 05 29 40.0–.20 36.31N 142.50E 63 4.0,2.9s
NIED III 25 05 30 00 35.80N 141.80E 8 4.3W,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=16.5km s-min=15.0km az=18.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=175.1.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.5km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s128.00000°,δ13.00000°,λ12.00000°. NP2:ϕ_s26.00000°,δ87.00000°,λ102.00000°. $M_0$2.94000×10^{15}
ISC III 25 05 31 16.8–.68 36.20N–.09 142.5E–.10 18 4.1b 27 4-146
IDC III 25 05 31 14.2–.90 36.17N 142.61E 0 4.2,4.0 **¶17198454**
ISCJB III 25 05 31 15.0–.51 36.12N–.06 142.63E–.10 18 4.2b,4.0
NEIC III 25 05 31 19.2–.35 36.13N 142.64E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=21.5km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=8.9km az=9.8.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.5km az=111.0.
ISC III 25 05 39 42.9–1.3 37.08N–.08 143.99E–.09 35 3.4b 16 2-61
IDC III 25 05 39 38.5–2.8 36.75N 144.06E 0 3.7L,3.6 **¶17198457**
ISCJB III 25 05 39 41.0–1.0 37.01N–.07 143.88E–.08 33 3.4b,3.6
JMA III 25 05 39 43.0–.30 37.15N 143.48E 0 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=79.9km s-min=26.3km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=8.4km az=41.1.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 25 05 42 44.8–1.5 36.30N–.06 142.25E–.09 15 3.6b 18 1-56
IDC III 25 05 42 43.1–3.1 36.14N 142.37E 0 3.5,3.5b **¶17198458**
ISCJB III 25 05 42 44.6–1.3 36.34N–.05 142.3E–.10 15 3.6b,3.5b
JMA III 25 05 42 47.2–.30 36.37N 142.22E 41 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=88.3km s-min=29.6km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.3km az=14.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 25 05 57 31.2–.95 36.55N–.07 143.07E–.09 29 4.0b 31 2-75
IDC III 25 05 57 25.7–1.1 36.32N 143.20E 0 3.9,3.8b **¶16480724**
ISCJB III 25 05 57 29.6–.58 36.54N–.05 143.08E–.05 29 4.0b,3.8b
JMA III 25 05 57 30.1–.30 36.54N 143.07E 45 3.7,3.8b
NEIC III 25 05 57 32.6–1.3 36.35N 143.10E 50–12 4.6b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=31.5km s-min=22.0km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=6.2km az=11.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=9.6km az=94.0.
ISC III 25 06 02 32.9–1.3 36.4N–.20 143.3E–.20 35 3.4b 7 4-60
IDC III 25 06 02 27.7–1.2 36.41N 143.42E 0 3.6,3.5L **¶17198461**
ISCJB III 25 06 02 30.5–1.0 36.4N–.10 143.4E–.20 33 3.5b,3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 06 44 26.8–.49 38.60N–.06 143.36E–.06 15 4.5b 95 2-117
IDC III 25 06 44 23.8–.60 38.51N 143.31E 0 4.2,4.1 **¶16452784**
ISCJB III 25 06 44 25.1–.28 38.55N–.04 143.35E–.03 15 4.4b,4.1s
JMA III 25 06 44 26.0–.20 38.63N 143.34E 24 4.4,4.1s
NEIC III 25 06 44 26.6–3.1 38.56N 143.37E 14–19 4.8b,4.1s
BJI III 25 06 44 26.8 38.61N 143.38E 24 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=15.0km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.6km az=167.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=121.0.
ISC III 25 06 49 17.4–.55 38.29N–.07 144.14E–.06 14 4.3b 73 2-145
IDC III 25 06 49 14.4–.65 38.15N 144.18E 0 4.1,4.0 **¶600566197**
ISCJB III 25 06 49 15.1–.31 38.19N–.05 144.16E–.04 14 4.3b,4.0
NEIC III 25 06 49 17.5–3.1 38.21N 144.16E 17–19 4.7b,4.0
JMA III 25 06 49 19.4–.30 38.39N 143.79E 0 4.3,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=16.5km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.0km az=2.6.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.6km az=117.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 25 07 08 28.7–2.1 38.54N–.10 144.5E–.10 29 17 2-59
JMA III 25 07 08 29.1–.20 38.51N 144.27E 23 3.9 **¶602692447**
ISCJB III 25 07 08 29.5–1.8 38.56N–.07 144.3E–.10 29 3.8b
IDC III 25 07 08 41.2–3.6 36.13N 143.55E 0 3.7,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=10.4km az=172.2.
IDC Error ellipse: s-maj=93.7km s-min=33.4km az=57.0.
ISC III 25 07 30 58.2–1.0 36.40N–.08 142.44E–.07 15 3.6b 21 1-90
ISCJB III 25 07 30 56.7–.84 36.41N–.08 142.56E–.07 15 3.7b **¶602692403**
JMA III 25 07 30 58.9–.20 36.38N 142.51E 73 3.2
IDC III 25 07 30 58.6–1.1 37.00N 142.43E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.1km az=156.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=25.5km az=11.0.
IDC III 25 07 44 30.1–2.7 36.24N 142.45E 0 3.7,3.6b
¶17198467
IDC Error ellipse: s-maj=78.6km s-min=28.0km az=61.0.
IDC III 25 07 49 48.9–1.0 38.83N 144.64E 0 3.7L,3.5
¶17198468
IDC Error ellipse: s-maj=32.9km s-min=22.0km az=120.0.
IDC III 25 07 57 20.1–1.4 37.47N 143.78E 0 3.6,3.3
¶17198469
IDC Error ellipse: s-maj=38.2km s-min=29.2km az=120.0.
ISC III 25 08 45 37.5–.48 36.36N–.04 142.56E–.04 30–3 4.8b,4.3s 307 2-146
ISCJB III 25 08 45 34.6–.96 36.32N–.03 142.50E–.03 21–6 4.7b,4.3s **¶602692251**
NEIC III 25 08 45 36.5–1.4 36.30N 142.54E 22–10 4.9b,4.3s
JMA III 25 08 45 36.1–.20 36.41N 142.47E 70 4.6,4.3s
BJI III 25 08 45 36.0 36.28N 142.53E 39 5.0b,4.8b
IDC III 25 08 45 37.7–.43 36.29N 142.51E 33–2 4.4,4.4
MOS III 25 08 45 37.8–.81 36.73N 142.48E 31 4.9b,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=165.5.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.5km az=140.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.9km s-min=10.8km az=134.0.
MOS Error ellipse: s-maj=8.0km s-min=5.1km az=114.4.
ISC III 25 09 06 07.5–.88 35.45N–.06 142.79E–.07 59 3.5b 26 2-90
IDC III 25 09 05 59.8–1.2 35.34N 143.05E 0 3.8,3.7 **¶17198473**
JMA III 25 09 06 04.0–.60 35.54N 142.89E 60 3.4,3.7
ISCJB III 25 09 06 05.5–.66 35.43N–.06 142.76E–.05 59 3.5b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 09 10 30.9–.64 37.84N–.05 144.18E–.07 35 3.9b 48 2-107
IDC III 25 09 10 25.4–.71 37.64N 144.38E 0 4.0,3.9L **¶16480795**
NEIC III 25 09 10 26.9–.31 37.64N 144.39E 10 4.1b,3.9L
ISCJB III 25 09 10 28.4–.42 37.71N–.04 144.17E–.04 33 3.9b,3.9L
JMA III 25 09 10 29.3–.20 37.87N 144.16E 40 4.1,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=15.3km az=126.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.5km az=169.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 09 13 44.8–3.9 36.19N–.06 142.3E–.10 7–27 3.7b 21 1-47
IDC III 25 09 13 42.6–5.4 36.24N 142.60E 0 3.6,3.6b **¶17198474**
JMA III 25 09 13 46.7–.20 36.26N 142.43E 63 3.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=96.1km s-min=41.2km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 09 25 58.9–1.2 37.56N–.08 143.68E–.09 35 3.9b 17 2-62
NIED III 25 09 25 00 37.70N 143.60E 5 3.7W **¶17198476**
IDC III 25 09 25 53.8–1.2 37.50N 143.88E 0 3.9,3.8
JMA III 25 09 25 56.8–.20 37.66N 143.64E 24 3.8,3.8
ISCJB III 25 09 25 56.9–.85 37.52N–.07 143.69E–.07 33 3.8b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ20.00000°,λ-72.00000°. NP2:ϕ_s171.00000°,δ71.00000°,λ-96.00000°. M_o3.38000×10^{14}
ISCJB Event type ke.
ISC III 25 09 31 46.8–.62 37.85N–.05 144.65E–.07 35 3.7b 60 3-107
IDC III 25 09 31 41.1–.72 37.63N 144.81E 0 3.9,3.8L **¶16480799**
NEIC III 25 09 31 42.6–.38 37.69N 144.83E 10 4.2b,3.8L
ISCJB III 25 09 31 44.3–.42 37.75N–.04 144.63E–.04 33 3.8b,3.8L
JMA III 25 09 31 46.3–.30 37.94N 144.53E 36 4.3,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=15.7km az=124.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.9km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=171.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 25 09 43 47.2–.60 37.81N–.03 143.97E–.03 25–3 5.2b,5.0s 1111 2-156
NIED III 25 09 43 00 37.90N 143.70E 8 5.3W,5.0s **¶16359667**
ISCJB III 25 09 43 42.5–.75 37.83N–.02 143.86E–.02 2–4 5.2b,5.0s
IDC III 25 09 43 43.0–.39 37.69N 143.96E 0 5.1,5.1
JMA III 25 09 43 45.5–.20 37.89N 143.70E 10 5.2,5.1
NEIC III 25 09 43 45.1–.11 37.74N 143.88E 10 5.3b,5.1
GCMT III 25 09 43 45.2–.10 37.78N 143.98E 12 5.3W,5.1
MOS III 25 09 43 47.4–.92 37.96N 143.83E 33 5.4b,4.9s
BJI III 25 09 43 47.2 38.02N 143.69E 17 5.3s,5.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ30.00000°,λ-132.00000°. NP2:ϕ_s232.00000°,δ68.00000°,λ-69.00000°. M_o9.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=171.6.
IDC Error ellipse: s-maj=11.0km s-min=10.0km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=153.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c109; s110,c220; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.68±.01 $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$-0.10±.04; $M_{\theta\phi}$0.79±.01; $M_{\phi r}$0.31±.04; Best double couple: NP1:ϕ_s186.00000°,δ60.00000°,λ-131.00000°. NP2:ϕ_s66.00000°,δ49.00000°,λ-41.00000°. Principal axes:
T 1.2050,Plg6.0000°,Azm303.0000°; N -0.3270,Plg35.0000°,Azm209.0000°
; P -0.8790,Plg55.0000°,Azm42.0000° M_o1.04200×10^{17}
MOS Error ellipse: s-maj=7.2km s-min=4.7km az=101.1.
IDC III 25 09 57 43.4–1.1 37.11N 143.48E 0 3.8,3.6
¶17198479
IDC Error ellipse: s-maj=35.5km s-min=23.4km az=95.0.
ISC III 25 10 01 31.7–1.9 37.00N–.09 143.5E–.10 35 18 2-49
IDC III 25 10 01 23.5–7.5 36.25N 144.07E 0 3.6,3.4 **¶17198480**
JMA III 25 10 01 30.6–.20 37.02N 143.41E 25 4.0,3.4
ISCJB III 25 10 01 30.6–1.3 36.99N–.07 143.51E–.08 33 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 25 10 10 20.6–2.8 36.94N 143.74E 0 3.8,3.6
¶17198481
IDC Error ellipse: s-maj=75.0km s-min=32.0km az=57.0.
ISC III 25 10 27 02.2–1.0 36.50N–.06 143.78E–.08 35 3.5b 34 2-82
IDC III 25 10 26 57.5–1.1 36.29N 144.06E 0 3.7,3.6 **¶17198483**
ISCJB III 25 10 27 00.2–.69 36.53N–.04 143.76E–.05 33 3.5b,3.1s
JMA III 25 10 27 02.5–.30 36.54N 143.65E 61 3.7,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=21.0km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.9km az=38.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 25 10 30 48.0–.69 36.97N–.06 144.42E–.07 26 4.1b 46 3-88
IDC III 25 10 30 44.1–.74 36.91N 144.53E 0 3.9,3.8 **¶16480807**
NEIC III 25 10 30 45.6–.42 36.95N 144.56E 10 4.3b,3.8
ISCJB III 25 10 30 46.2–.43 36.99N–.04 144.40E–.04 26 3.9b,3.8
JMA III 25 10 30 48.2–.40 37.07N 144.31E 50 4.1,3.8
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=15.7km az=125.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=7.4km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.8km az=169.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 25 10 46 20.4–1.1 37.3N–.20 144.6E–.20 35 3.6b 8 5-76
IDC III 25 10 46 15.2–1.1 37.33N 144.70E 0 3.8,3.6 **¶17198485**
ISCJB III 25 10 46 18.1–1.0 37.3N–.20 144.6E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 11 03 08.5–1.7 37.48N–.08 142.5E–.10 21 3.8b 10 1-46
IDC III 25 11 03 00.8–5.1 37.42N 143.64E 0 4.1L,4.0 **¶600566410**
ISCJB III 25 11 03 07.0–1.3 37.51N–.10 142.7E–.10 21 3.8b,4.0
JMA III 25 11 03 09.5–.40 37.70N 142.74E 26 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=90.5km s-min=36.7km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=11.1km az=145.8.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 25 11 14 19.5–.72 37.09N–.05 143.71E–.07 35 3.9b 33 2-89
IDC III 25 11 14 14.5–.88 36.92N 144.05E 0 4.3L,4.0 **¶16480813**
NEIC III 25 11 14 15.7–.64 37.00N 143.97E 10 4.1b,4.0
JMA III 25 11 14 17.9–.30 37.14N 143.65E 46 4.1,4.0
ISCJB III 25 11 14 17.1–.52 37.06N–.04 143.70E–.05 33 3.8b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 25 11 57 15.7–10 35.31N 142.20E 0 3.4b,3.3
¶17198491
IDC Error ellipse: s-maj=266.4km s-min=98.2km az=1.0.
IDC III 25 12 08 38.8–1.7 37.82N 143.81E 0 3.6,3.5b
¶17198492
IDC Error ellipse: s-maj=43.0km s-min=29.3km az=96.0.
ISC III 25 12 14 36.0–2.2 37.28N–.09 142.4E–.10 21 13 1-46
IDC III 25 12 14 14.8–3.6 35.48N 144.04E 0 3.8,3.7b **¶602692789**
JMA III 25 12 14 36.6–.50 37.27N 142.30E 21 3.8,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=105.3km s-min=34.8km az=60.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

ISC III 25 12 39 08.6–1.0 35.9N–.10 143.3E–.10 35 3.6b 9 4-90
IDC III 25 12 39 03.6–1.1 35.99N 143.46E 0 3.7,3.7L **¶17198498**
ISCJB III 25 12 39 05.8–.81 35.81N–.10 143.4E–.10 33 3.8b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 12 39 48.8–1.1 35.9N–.20 143.5E–.10 35 3.5b 6 4-89
IDC III 25 12 39 43.5–1.2 35.95N 143.55E 0 3.9,3.8L **¶17198501**
ISCJB III 25 12 39 46.8–1.0 35.9N–.20 143.4E–.20 33 3.5b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 12 41 04.8–.67 36.15N–.05 143.36E–.07 35 3.9b 44 2-89
IDC III 25 12 40 59.5–.78 36.08N 143.44E 0 4.0,3.9 **¶16480827**
NEIC III 25 12 41 00.9–.31 36.08N 143.41E 10 4.1b,3.9
ISCJB III 25 12 41 02.7–.43 36.14N–.04 143.34E–.04 33 3.9b,3.9
JMA III 25 12 41 03.2–.20 36.17N 143.32E 70 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=18.7km az=138.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.9km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.4km az=3.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 12 43 10.5–.70 37.81N–.04 143.88E–.04 19–2 5.1b,4.6s 944 2-153
NIED III 25 12 43 00 37.80N 143.80E 8 4.8W,4.6s **¶16359883**
IDC III 25 12 43 06.9–.46 37.65N 143.97E 0 4.9,4.9
ISCJB III 25 12 43 08.4–.84 37.75N–.02 143.85E–.02 15–5 5.0b,4.7s
JMA III 25 12 43 10.1–.20 37.76N 143.80E 38 4.8,4.7s
BJI III 25 12 43 11.3 37.87N 143.67E 26 5.3b,4.9s
NEIC III 25 12 43 11.6–1.1 37.71N 143.84E 26–8 5.1b,4.9s
MOS III 25 12 43 12.8–.87 38.09N 143.78E 33 5.2b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ43.00000°,λ-25.00000°. NP2:ϕ_s162.00000°,δ73.00000°,λ-130.00000°. M_o2.00000×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=11.1km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.2km az=178.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.6km az=147.0.
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=102.0.
JMA III 25 13 08 15.0–.20 36.42N 143.35E 80 3.5
¶602692705
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 13 09 12.1–.30 37.23N 143.61E 13 3.6
¶602692702
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 25 13 13 45.3–.94 36.16N–.06 143.46E–.08 35 3.6b 20 2-89
IDC III 25 13 13 40.3–.98 36.01N 143.64E 0 3.9,3.9s **¶17198505**
ISCJB III 25 13 13 43.3–.73 36.22N–.05 143.45E–.06 33 4.0s,3.5b
JMA III 25 13 13 44.4–.20 36.26N 143.36E 88 3.8,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=20.4km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.3km az=43.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 13 25 58.8–.20 37.99N 143.62E 27 3.7
¶602692660
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 13 36 47.7–.20 36.76N 144.28E 47 3.9
¶602692632
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 13 41 59.5–1.1 39.98N–.05 143.78E–.07 16 3.6b 28 1-64
JMA III 25 13 41 55.9–.30 39.95N 143.83E 3 3.6 **¶17198508**
ISCJB III 25 13 41 57.4–.71 39.96N–.04 143.83E–.07 16 3.6b
IDC III 25 13 41 57.3–2.4 40.03N 143.78E 0 3.9,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.4km az=22.5.
IDC Error ellipse: s-maj=68.6km s-min=22.3km az=65.0.
IDC III 25 13 42 13.0–22 37.57N 143.92E 0 3.6,3.4
¶17198509
IDC Error ellipse: s-maj=617.2km s-min=38.3km az=169.0.
ISC III 25 13 56 51.4–1.9 37.79N–.09 142.87E–.10 18 12 1-58
IDC III 25 13 56 50.2–3.5 37.54N 143.29E 0 3.5,3.3b **¶17198511**
JMA III 25 13 56 51.7–.40 37.78N 142.95E 16 3.5,3.3b
ISCJB III 25 13 56 53.3–1.6 37.77N–.10 142.9E–.10 18 3.3b,3.3b
ISC Event type ke.
ISCJB Event type ke.
JMA III 25 14 05 12.4–.30 36.77N 143.89E 46 3.8
¶602693134
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 25 14 15 11.4–1.3 38.27N–.05 144.29E–.10 29 3.6b 39 2-59
IDC III 25 14 15 07.2–1.7 38.14N 144.43E 0 4.1L,3.9 **¶17198513**
JMA III 25 14 15 10.8–.20 38.33N 144.25E 34 4.1,3.9
ISCJB III 25 14 15 10.6–.84 38.37N–.04 144.27E–.06 29 3.5b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 14 27 13.5–.85 36.49N–.05 143.52E–.07 35 3.5b 38 2-89
IDC III 25 14 27 08.2–1.5 36.30N 143.71E 0 3.8,3.6 **¶17198514**
JMA III 25 14 27 12.4–.20 36.57N 143.45E 47 4.1,3.6
ISCJB III 25 14 27 12.5–.67 36.55N–.04 143.43E–.05 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 14 37 55.2–.88 37.63N–.06 144.65E–.08 35 3.6b 30 3-75
IDC III 25 14 37 50.1–.78 37.46N 144.98E 0 3.9,3.7 **¶17198515**
ISCJB III 25 14 37 53.7–.67 37.74N–.06 144.64E–.05 33 3.6b,3.7
JMA III 25 14 37 54.5–.20 37.77N 144.50E 24 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=21.8km s-min=17.3km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.8km az=9.4.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 25 15 01 14.2–.40 36.29N–.03 142.66E–.04 23–2 5.3b,4.6s 642 2-160
ISCJB III 25 15 01 10.8–.88 36.29N–.02 142.57E–.02 8–5 5.2b,4.6s **¶16359890**
IDC III 25 15 01 10.7–.39 36.22N 142.72E 0 5.0,4.9
GCMT III 25 15 01 13.8–.50 36.28N 142.55E 16–1 5.0W,4.9
JMA III 25 15 01 13.9–.20 36.34N 142.57E 76 5.2,4.9
NEIC III 25 15 01 13.8–.73 36.24N 142.60E 18–4 5.3b,4.9
MOS III 25 15 01 14.1–.88 36.60N 142.61E 24 5.4b,4.7s
BJI III 25 15 01 17.1 36.53N 142.04E 28 5.3b,5.1b
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.4km az=163.5.
IDC Error ellipse: s-maj=10.7km s-min=10.1km az=165.0.
GCMT Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s67,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.79±.26 $M_{\theta\theta}$1.28±.16; $M_{\phi\phi}$1.51±.15; $M_{r\theta}$-0.33±.48; $M_{\theta\phi}$0.86±.08; $M_{\phi r}$2.16±.54; Best double couple: NP1:ϕ_s194.00000°,δ65.00000°,λ-108.00000°. NP2:ϕ_s51.00000°,δ31.00000°,λ-57.00000°. Principal axes:
T 2.7300,Plg18.0000°,Azm297.0000°; N 1.0380,Plg16.0000°,Azm202.0000°
; P -3.7680,Plg66.0000°,Azm72.0000° M_o3.24900×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.6km az=143.0.
MOS Error ellipse: s-maj=6.6km s-min=4.3km az=103.0.
IDC III 25 15 16 31.5–2.9 36.29N 142.84E 0 3.6,3.5
¶602691780
IDC Error ellipse: s-maj=80.4km s-min=30.8km az=61.0.
ISC III 25 15 30 33.4–.96 36.28N–.06 142.61E–.08 15 3.6b 27 2-60
IDC III 25 15 30 30.6–1.2 36.30N 142.78E 0 3.7,3.7L **¶17198520**
ISCJB III 25 15 30 32.1–.69 36.27N–.06 142.62E–.06 15 3.5b,3.7L
JMA III 25 15 30 34.0–.30 36.33N 142.63E 46 3.4,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=31.0km s-min=20.2km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.0km az=162.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 25 15 32 28.2–1.0 37.75N–.08 143.10E–.09 24 3.7b 25 2-63
IDC III 25 15 32 24.3–1.2 37.66N 143.28E 0 3.8,3.7 **¶17198521**
JMA III 25 15 32 25.2–.30 37.74N 143.18E 29 3.8,3.7

ISCJB III 25 15 32 26.1–.76 37.71N–.06 143.14E–.07 24 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 15 37 57.6–.64 39.66N–.06 143.26E–.06 11 4.5b 76 1-84
ISCJB III 25 15 37 55.2–.44 39.59N–.04 143.39E–.05 11 4.3s,4.3b ¶16361353
IDC III 25 15 37 55.7–.71 39.58N 143.20E 0 4.2,4.1
JMA III 25 15 37 56.9–.30 39.66N 143.39E 20–5 4.2,4.1
NEIC III 25 15 38 01.3–.54 39.69N 143.11E 35 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.6km az=140.8.
IDC Error ellipse: s-maj=18.0km s-min=16.3km az=126.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.5km az=128.0.
ISC III 25 15 49 00.6–1.1 39.3N–.10 144.6E–.10 23 3.6b 11 6-61
IDC III 25 15 48 57.0–1.1 39.26N 144.50E 0 3.8,3.6 ¶17198522
ISCJB III 25 15 48 58.4–.97 39.3N–.10 144.5E–.10 23 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 25 15 56 39.8–3.0 38.70N 144.97E 0 3.5,3.4b
¶17198523
IDC Error ellipse: s-maj=71.9km s-min=37.1km az=70.0.
JMA III 25 15 57 32.2–.40 39.92N 143.29E 4–4 3.5
¶603049255
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 25 16 07 30.3–1.3 37.8N–.20 144.1E–.20 35 3.5b 6 5-58
IDC III 25 16 07 25.3–1.3 37.82N 144.19E 0 3.5,3.4 ¶17198524
ISCJB III 25 16 07 28.0–1.2 37.8N–.20 144.2E–.20 33 3.5b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 16 14 26.0–3.4 37.16N–.04 142.34E–.06 4–21 3.7b 53 1-75
IDC III 25 16 14 25.4–.91 37.11N 142.41E 0 3.9,3.9 ¶600566698
ISCJB III 25 16 14 26.2–1.4 37.12N–.03 142.49E–.04 22–11 3.8b,3.9
JMA III 25 16 14 28.2–.20 37.20N 142.38E 32 4.1,3.9
NEIC III 25 16 14 29.7–.60 37.11N 142.45E 35 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=16.0km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=16.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.4km az=116.0.
ISC III 25 16 18 21.2–.00 37.10N–.09 143.9E–.10 35 3.6b 14 5-75
IDC III 25 16 18 16.3–1.0 37.19N 143.98E 0 3.8,3.7 ¶17198525
ISCJB III 25 16 18 19.2–.80 37.11N–.09 143.86E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 16 55 44.9–.79 39.20N–.06 144.27E–.07 19 3.7b 40 2-75
NIED III 25 16 55 00 39.20N 144.30E 59 3.8W ¶17198529
IDC III 25 16 55 41.5–.78 39.04N 144.37E 0 3.8,3.6
ISCJB III 25 16 55 43.2–.55 39.19N–.04 144.24E–.05 19 3.6b,3.6
JMA III 25 16 55 44.6–.20 39.18N 144.28E 52 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ44.00000°,λ-156.00000°. NP2:ϕ_s222.00000°,δ74.00000°,λ-48.00000°. M_o6.34000×10^{14}
IDC Error ellipse: s-maj=20.0km s-min=16.6km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.7km az=145.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 25 17 03 16.5–1.5 37.56N–.08 142.03E–.10 24 3.7b 12 1-58
IDC III 25 17 03 10.3–2.7 37.90N 142.98E 0 3.6,3.6b ¶600566737
JMA III 25 17 03 14.5–.30 37.57N 142.18E 24 3.6,3.6b
ISCJB III 25 17 03 14.8–1.3 37.68N–.07 142.26E–.09 24 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 17 10 12.0–1.4 37.58N–.07 142.7E–.10 21 3.6b 13 1-58
IDC III 25 17 10 07.1–2.5 37.63N 143.10E 0 3.8,3.8 ¶17198532
JMA III 25 17 10 10.1–.30 37.50N 142.38E 0 4.0,3.8
ISCJB III 25 17 10 10.4–1.1 37.50N–.05 142.6E–.10 21 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA III 25 17 16 22.9–.20 37.98N 142.60E 20–2 3.7
NIED III 25 17 16 00 38.00N 142.60E 26 3.6W ¶600566752
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ39.00000°,λ-59.00000°. NP2:ϕ_s10.00000°,δ57.00000°,λ-113.00000°. M_o2.50000×10^{14}
ISC III 25 17 35 21.3–.59 36.27N–.04 142.05E–.08 35–3 4.0b,3.7s 76 1-90
NIED III 25 17 35 00 36.30N 142.20E 23 4.4W,3.7s ¶600566765
IDC III 25 17 35 15.6–.65 36.17N 142.06E 0 3.9,3.9
JMA III 25 17 35 17.8–.20 36.28N 142.20E 65 3.9,3.9
NEIC III 25 17 35 18.7–2.5 36.22N 142.17E 21–17 4.6b,3.9
ISCJB III 25 17 35 18.4–1.6 36.26N–.03 142.19E–.05 32–11 4.0b,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ34.00000°,λ87.00000°. NP2:ϕ_s17.00000°,δ56.00000°,λ92.00000°. M_o3.87000×10^{15}
NEIC Event type se.
ISCJB Event type ke.
IDC III 25 17 45 24.7–3.3 36.04N 142.26E 0 3.5,3.5b
¶602691453
IDC Error ellipse: s-maj=95.5km s-min=29.8km az=58.0.
ISC III 25 17 59 40.1–1.2 36.4N–.20 143.3E–.20 35 3.9b 10 4-60
IDC III 25 17 59 34.9–.99 36.40N 143.35E 0 3.9,3.8b ¶17198540
ISCJB III 25 17 59 37.6–.88 36.4N–.10 143.3E–.10 33 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 18 00 00.1–.51 38.24N–.05 144.41E–.06 29 4.3b 106 2-144
IDC III 25 17 59 55.8–.62 38.17N 144.46E 0 4.3,4.2 ¶16361356
ISCJB III 25 17 59 58.6–.33 38.27N–.04 144.34E–.04 29 4.2b,4.2
JMA III 25 18 00 00.5–.20 38.35N 144.17E 28 4.6,4.2
NEIC III 25 18 00 00.9–.23 38.19N 144.41E 35 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=13.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.0km az=161.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=152.0.
ISC III 25 18 30 38.8–1.7 38.00N–.09 144.2E–.10 35 14 2-58
IDC III 25 18 30 33.8–3.1 37.80N 144.29E 0 3.7,3.6b ¶17198541
JMA III 25 18 30 37.8–.20 37.99N 144.07E 42 3.8,3.6b
ISCJB III 25 18 30 37.0–1.3 37.98N–.08 144.1E–.10 33 3.6b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 18 36 19.1–.57 35.75N–.05 142.06E–.06 22 3.8b 53 1-90
NIED III 25 18 36 00 35.80N 142.10E 8 3.9W ¶16480883
IDC III 25 18 36 15.6–.66 35.73N 142.05E 0 4.0,3.8
ISCJB III 25 18 36 17.3–.41 35.72N–.04 142.12E–.05 22 3.9b,2.9s
JMA III 25 18 36 19.1–.20 35.81N 142.05E 61–4 3.6,2.9s
NEIC III 25 18 36 20.8–.42 35.72N 142.07E 35 4.3b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ28.00000°,λ64.00000°. NP2:ϕ_s227.00000°,δ65.00000°,λ103.00000°. M_o7.02000×10^{14}
IDC Error ellipse: s-maj=19.3km s-min=14.5km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=136.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.2km az=102.0.
ISC III 25 19 11 25.4–.96 36.23N–.05 142.62E–.08 18 3.9b 45 2-60
NIED III 25 19 11 00 36.30N 142.50E 5 3.6W ¶16480885
IDC III 25 19 11 22.7–2.0 36.20N 142.76E 0 3.9,3.9
ISCJB III 25 19 11 23.7–.58 36.17N–.04 142.65E–.06 18 3.9b,3.3s
JMA III 25 19 11 26.8–.20 36.32N 142.54E 46 3.6,3.3s
NEIC III 25 19 11 27.6–.84 36.18N 142.68E 35 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ24.00000°,λ42.00000°. NP2:ϕ_s50.00000°,δ74.00000°,λ108.00000°. M_o2.81000×10^{14}
IDC Error ellipse: s-maj=55.0km s-min=18.6km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.2km az=9.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=10.1km az=82.0.
ISC III 25 20 16 31.7–1.4 40.01N–.06 143.22E–.09 12 3.6b 24 1-60
NIED III 25 20 16 00 39.90N 143.30E 26 3.6W ¶17198546
IDC III 25 20 16 24.6–1.6 39.40N 143.65E 0 3.6,3.5
JMA III 25 20 16 30.2–.30 39.92N 143.30E 8–3 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ33.00000°,λ113.00000°. NP2:ϕ_s23.00000°,δ60.00000°,λ76.00000°. M_o3.02000×10^{14}
IDC Error ellipse: s-maj=44.5km s-min=25.4km az=76.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 25 20 16 37.6–2.1 36.23N–.10 142.7E–.10 35 16 2-56
IDC III 25 20 16 33.8–2.9 36.03N 142.93E 0 3.9,3.8 ¶17198547
ISCJB III 25 20 16 37.0–1.3 36.13N–.07 142.6E–.10 33 3.6b,3.8
JMA III 25 20 16 37.5–.30 36.34N 142.60E 58 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=62.0km s-min=28.2km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=9.0km az=158.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 25 20 27 22.9–.44 36.38N–.05 142.63E–.05 15 4.6b,3.4s 155 2-146
IDC III 25 20 27 20.0–.54 36.29N 142.65E 0 4.4,4.3 ¶16361359
NEIC III 25 20 27 21.8–.22 36.33N 142.66E 10 4.7b,4.3
ISCJB III 25 20 27 21.0–.23 36.33N–.03 142.65E–.03 15 4.5b,3.5s
JMA III 25 20 27 23.4–.20 36.34N 142.59E 71 4.2,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=13.0km az=127.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.6km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=162.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC III 25 20 32 42.2–9.9 35.85N 144.02E 0 3.8,3.6b
¶17198550
IDC Error ellipse: s-maj=226.4km s-min=44.9km az=38.0.
ISC III 25 20 37 48.5–.64 38.31N–.06 143.58E–.06 15 4.2b 62 2-76
IDC III 25 20 37 45.8–.66 38.15N 143.70E 0 4.1,3.9L ¶16480894
ISCJB III 25 20 37 46.5–.38 38.21N–.04 143.57E–.04 15 4.1b,3.4s
JMA III 25 20 37 49.3–.10 38.32N 143.42E 22 4.2,3.4s
NEIC III 25 20 37 51.1–1.0 38.18N 143.64E 35–9 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=13.8km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=168.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=102.0.
ISC III 25 20 43 18.9–1.5 37.57N–.08 144.85E–.09 35 20 3-62
ISCJB III 25 20 43 16.8–1.1 37.57N–.05 144.77E–.07 33 3.5b ¶17198551
IDC III 25 20 43 22.7–9.2 36.32N 143.80E 0 3.6,3.4
JMA III 25 20 43 23.4–.40 37.80N 144.41E 20 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.5km az=144.0.
IDC Error ellipse: s-maj=203.7km s-min=45.2km az=33.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 25 21 14 31.9–.94 38.67N–.07 143.98E–.08 14 3.5b 23 2-88
IDC III 25 21 14 29.4–1.1 38.48N 144.12E 0 3.6,3.4 ¶17198553
ISCJB III 25 21 14 30.7–.75 38.64N–.06 143.93E–.06 14 3.4b,2.9s
JMA III 25 21 14 31.9–.20 38.64N 143.85E 17 3.4,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=23.2km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.4km az=173.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 25 21 15 58.9–1.3 38.73N–.08 143.93E–.09 14 3.5b 22 2-88
IDC III 25 21 15 56.8–2.2 38.66N 143.97E 0 3.6,3.6L ¶17198554
ISCJB III 25 21 15 57.7–.88 38.72N–.07 143.93E–.07 14 3.4b,3.6L
JMA III 25 21 15 58.2–.30 38.64N 143.97E 29 3.5,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=52.6km s-min=27.7km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.0km az=154.6.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 25 21 37 19.3–.59 33.83N–.07 141.72E–.08 24 3.9b 25 2-148
IDC III 25 21 37 16.1–.64 33.88N 141.71E 0 4.0,3.9L ¶16480903
ISCJB III 25 21 37 17.3–.48 33.83N–.05 141.79E–.08 24 3.9b,3.9L
NEIC III 25 21 37 17.6–4.0 33.87N 141.81E 12–25 4.4b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=24.3km s-min=15.7km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=7.2km az=20.3.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=8.5km az=91.0.
ISC III 25 21 39 05.1–.55 37.40N–.05 142.27E–.07 24 4.1b 66 1-146
NIED III 25 21 39 00 37.40N 142.30E 14 4.2W ¶16480904
IDC III 25 21 39 01.3–.59 37.40N 142.34E 0 4.2,4.1
JMA III 25 21 39 02.1–.20 37.44N 142.32E 14–3 4.4,4.1
ISCJB III 25 21 39 03.3–.40 37.43N–.04 142.32E–.05 24 4.0b,3.3s
NEIC III 25 21 39 06.9–.78 37.43N 142.32E 37–6 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ31.00000°,λ-161.00000°. NP2:ϕ_s218.00000°,δ80.00000°,λ-60.00000°. M_o2.26000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.5km az=130.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.4km az=42.7.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.1km az=134.0.
IDC III 25 21 57 44.2–2.7 35.92N 143.61E 0 3.5,3.5b
¶17198559
IDC Error ellipse: s-maj=81.0km s-min=27.3km az=65.0.
JMA III 25 22 07 47.9–.30 37.78N 142.13E 9–4 3.5
¶602691238
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 25 22 28 25.0–.30 38.47N 144.11E 0 3.5
¶602691205
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 25 22 31 33.2–1.1 37.16N–.07 144.47E–.08 26 3.7b 23 3-62
IDC III 25 22 31 27.7–3.7 37.52N 142.64E 0 3.9,3.5 ¶17198567
ISCJB III 25 22 31 31.4–.78 37.11N–.05 144.41E–.05 26 3.7b,3.5
JMA III 25 22 31 35.2–.60 37.14N 144.17E 20 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=381.4km s-min=23.7km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.2km az=164.4.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 25 22 36 36.1–3.4 37.07N–.07 142.4E–.10 0–16 3.5b 22 1-47
IDC III 25 22 36 30.4–10 36.56N 143.18E 0 3.9L,3.7 ¶600567051
JMA III 25 22 36 35.7–.30 37.04N 142.42E 1–3 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=185.4km s-min=73.9km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 25 22 38 46.5–.81 36.65N–.06 143.85E–.08 35 3.7b 40 2-89
IDC III 25 22 38 40.6–.82 36.61N 144.16E 0 4.0s,4.0 ¶16480918
ISCJB III 25 22 38 44.5–.52 36.68N–.05 143.81E–.05 33 4.0s,3.8b
JMA III 25 22 38 45.1–.40 36.74N 143.67E 22 4.2,3.8b
NEIC III 25 22 38 45.4–.57 36.58N 144.09E 35 4.1b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=18.7km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.0km az=154.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=10.8km az=182.0.
ISC III 25 22 49 54.3–3.5 39.68N–.06 143.59E–.06 10–22 3.9b 46 1-73
IDC III 25 22 49 52.3–.81 39.51N 143.59E 0 3.9,3.8 ¶16480919
JMA III 25 22 49 53.7–.30 39.75N 143.60E 8–4 4.2,3.8
ISCJB III 25 22 49 54.1–1.8 39.70N–.04 143.67E–.05 19–13 3.9b,3.6s
NEIC III 25 22 49 55.0–3.5 39.52N 143.51E 16–21 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=17.1km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.1km az=139.4.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.2km az=124.0.
ISC III 25 23 25 42.9–.97 39.85N–.06 143.79E–.07 16 3.6b 33 1-67

NIED III 25 23 25 00 39.90N 143.70E 11 3.7W ¶17198575
IDC III 25 23 25 40.7–1.2 39.73N 143.75E 0 3.7,3.6
ISCJB III 25 23 25 41.3–.71 39.90N–.04 143.80E–.07 16 3.5b,3.6
JMA III 25 23 25 42.9–.30 39.89N 143.70E 23 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ36.00000°,λ101.00000°. NP2:ϕ_s15.00000°,δ54.00000°,λ82.00000°. $M_0$3.68000×10^{14}
IDC Error ellipse: s-maj=28.6km s-min=23.0km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.4km az=34.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 25 23 29 39.0–.83 38.0N–.10 144.0E–.10 35 3.7b 17 4-88
IDC III 25 23 29 33.5–.75 37.87N 144.05E 0 4.0,3.8b ¶16480929
ISCJB III 25 23 29 36.6–.66 37.92N–.10 144.0E–.10 33 3.8b,3.8b
NEIC III 25 23 29 38.9–.46 37.95N 143.97E 35 4.0b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=17.2km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=9.3km az=143.2.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.6km az=140.0.
JMA III 25 23 30 01.1–.40 36.67N 142.31E 19 3.6
NIED III 25 23 30 00 36.70N 142.30E 14 3.7W ¶603049259
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ42.00000°,λ101.00000°. NP2:ϕ_s9.00000°,δ49.00000°,λ81.00000°. $M_0$4.29000×10^{14}
IDC III 25 23 54 18.6–1.4 33.74N 141.70E 0 3.6,3.4b
¶17198576
IDC Error ellipse: s-maj=29.0km s-min=22.5km az=135.0.
JMA III 26 00 16 06.7–.20 37.63N 142.03E 16–3 3.8
NIED III 26 00 16 00 37.60N 142.00E 53 3.9W ¶600567147
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ33.00000°,λ-67.00000°. NP2:ϕ_s332.00000°,δ60.00000°,λ-104.00000°. $M_0$7.78000×10^{14}
ISC III 26 00 18 57.6–1.1 36.9N–.20 143.9E–.10 35 3.6b 10 5-84
IDC III 26 00 18 52.2–1.1 36.86N 143.94E 0 3.7,3.5 ¶17198582
ISCJB III 26 00 18 55.4–.96 36.8N–.10 143.8E–.10 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 00 49 29.2–.83 36.24N–.05 143.35E–.07 35 3.4b 27 2-146
IDC III 26 00 49 24.1–1.1 36.19N 143.57E 0 3.6,3.5 ¶17198584
ISCJB III 26 00 49 27.6–.69 36.26N–.05 143.32E–.06 33 3.3b,3.5
JMA III 26 00 49 28.3–.20 36.29N 143.27E 48 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=32.1km s-min=23.7km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.0km az=147.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 01 06 13.6–3.7 38.78N–.05 144.47E–.06 18–23 4.2b 80 2-144
IDC III 26 01 06 10.7–.62 38.69N 144.54E 0 4.2,4.1 ¶17198586
NEIC III 26 01 06 13.1–2.6 38.71N 144.52E 16–16 4.4b,4.1
JMA III 26 01 06 15.5–.20 38.84N 144.27E 40 4.6,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=13.2km az=137.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.9km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 26 01 13 32.2–.50 36.84N–.05 144.51E–.06 26 4.3b 122 3-145
IDC III 26 01 13 27.4–.90 36.66N 144.59E 0 4.2,4.1 ¶16361360
ISCJB III 26 01 13 30.8–.28 36.83N–.04 144.36E–.03 26 4.2b,3.2s
JMA III 26 01 13 31.9–.30 36.82N 144.32E 57 4.6,3.2s
NEIC III 26 01 13 33.0–2.2 36.76N 144.50E 32–15 4.5b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=12.7km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.2km az=166.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=4.9km az=161.0.
ISC III 26 01 20 37.8–1.9 38.12N–.08 144.2E–.10 35 3.6b 19 2-58
JMA III 26 01 20 39.0–.20 38.13N 144.05E 49 3.9 ¶602695631
IDC III 26 01 20 49.8–2.7 37.73N 140.83E 0 3.4,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=58.9km s-min=32.9km az=72.0.
ISC III 26 01 34 40.5–.51 37.66N–.06 143.02E–.06 24 4.3b 102 2-145
NIED III 26 01 34 00 37.70N 143.00E 8 4.2W ¶16361362
IDC III 26 01 34 37.1–.58 37.73N 142.99E 0 4.4L,4.3
ISCJB III 26 01 34 38.7–.31 37.68N–.04 143.05E–.04 24 4.2b,4.3
JMA III 26 01 34 38.5–.20 37.73N 142.99E 18 4.4,4.3
NEIC III 26 01 34 40.9–1.9 37.70N 143.03E 27–13 4.5b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ53.00000°,λ149.00000°. NP2:ϕ_s345.00000°,δ66.00000°,λ41.00000°. $M_0$2.05000×10^{15}
IDC Error ellipse: s-maj=16.8km s-min=13.5km az=124.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.9km az=155.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.0km az=122.0.
ISC III 26 01 42 17.7–.35 38.04N–.04 143.95E–.04 35 4.6b,3.8s 270 2-144
IDC III 26 01 42 12.2–.50 37.92N 144.03E 0 4.5,4.4 ¶602695568
ISCJB III 26 01 42 12.9–.95 37.98N–.03 143.90E–.02 9–5 4.6b,3.8s
NEIC III 26 01 42 14.0–1.9 37.97N 143.96E 6–12 4.8b,3.8s
JMA III 26 01 42 15.9–.20 38.03N 143.84E 50 4.5,3.8s
MOS III 26 01 42 15.3–1.1 38.14N 143.94E 21 4.8b,3.8s
BJI III 26 01 42 20.2 38.29N 143.41E 30 4.9b,4.6b
NIED III 26 01 43 00 38.00N 143.80E 5 4.2W,4.6b
ISC Event type ke.
IDC Error ellipse: s-maj=13.5km s-min=11.5km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=163.6.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.7km s-min=5.2km az=107.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ60.00000°,λ-18.00000°. NP2:ϕ_s173.00000°,δ74.00000°,λ-149.00000°. $M_0$2.45000×10^{15}
ISC III 26 01 43 48.7–.57 37.93N–.07 143.92E–.07 35 4.2b 45 2-118
IDC III 26 01 43 43.6–.69 37.92N 144.11E 0 4.1,4.0 ¶16480955
NEIC III 26 01 43 46.8–3.1 37.88N 144.08E 22–22 4.5b,4.0
JMA III 26 01 43 47.5–.30 38.00N 143.78E 31 3.9,4.0
ISCJB III 26 01 43 47.1–.42 38.00N–.06 143.90E–.05 33 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 26 01 53 44.3–.20 37.45N 142.57E 11–4 3.6
¶602695552
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 02 29 34.1–.77 37.52N–.04 143.57E–.07 35 4.0b 53 2-82
NIED III 26 02 29 00 37.50N 143.50E 8 3.8W ¶16480958
IDC III 26 02 29 29.1–.89 37.40N 143.73E 0 4.2L,4.0
ISCJB III 26 02 29 32.0–.46 37.49N–.03 143.56E–.04 33 4.0b,3.5s
JMA III 26 02 29 32.4–.20 37.52N 143.47E 33 3.9,3.5s
NEIC III 26 02 29 34.3–.57 37.53N 143.61E 35 4.1b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ31.00000°,λ-93.00000°. NP2:ϕ_s190.00000°,δ59.00000°,λ-88.00000°. $M_0$5.29000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=17.5km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.3km az=38.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.5km az=128.0.
ISC III 26 02 46 37.9–1.3 37.80N–.05 143.81E–.08 19 3.5b 30 2-58
IDC III 26 02 46 33.7–1.5 37.12N 144.38E 0 3.7,3.6 ¶17198594
ISCJB III 26 02 46 37.1–.89 37.77N–.04 143.70E–.07 19 3.5b,3.1s
JMA III 26 02 46 39.2–.40 37.74N 143.64E 54 4.2,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=30.5km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.5km az=22.2.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 26 02 51 16.9–.20 39.33N 143.10E 17–2 3.5
¶602696026
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 03 29 23.7–1.9 37.95N–.05 142.23E–.07 25–13 3.7b 37 1-146
NIED III 26 03 29 00 38.00N 141.90E 65 4.0W ¶17198598
IDC III 26 03 29 20.1–.75 38.12N 142.53E 0 3.9,3.7
JMA III 26 03 29 28.4–.10 38.03N 141.95E 48–1 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ67.00000°,λ2.00000°. NP2:ϕ_s308.00000°,δ88.00000°,λ157.00000°. $M_0$9.88000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=19.7km az=73.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 03 36 08.8–.79 38.01N–.05 144.13E–.07 35 3.8b,3.2s 50 2-73
IDC III 26 03 36 03.6–.76 37.86N 144.38E 0 3.9,3.8 ¶17198600
ISCJB III 26 03 36 07.0–.51 38.03N–.04 144.13E–.04 33 3.7b,3.1s
JMA III 26 03 36 07.4–.20 38.02N 144.08E 41 4.4,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=14.8km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=157.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 03 39 04.4–3.9 37.58N–.07 143.45E–.07 2–24 3.8b 28 2-75
IDC III 26 03 39 03.1–.92 37.45N 143.79E 0 3.9,3.7 ¶17198601
JMA III 26 03 39 07.3–.40 37.60N 143.29E 11 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=20.3km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 26 03 53 48.5–1.9 37.75N–.05 142.16E–.06 6–11 3.5b 32 1-146
NIED III 26 03 53 00 37.80N 142.00E 32 3.7W ¶602695933
IDC III 26 03 53 47.7–.85 37.85N 142.31E 0 3.7,3.6
JMA III 26 03 53 52.8–.10 37.76N 142.02E 32–3 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ33.00000°,λ-87.00000°. NP2:ϕ_s210.00000°,δ57.00000°,λ-92.00000°. $M_0$4.24000×10^{14}
IDC Error ellipse: s-maj=23.5km s-min=21.0km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 26 04 03 50.3–.57 37.69N–.06 142.73E–.07 21 4.4b,3.3s 71 1-145
NIED III 26 04 03 00 37.60N 142.80E 17 4.1W,3.3s ¶600567324
JMA III 26 04 03 46.7–.30 37.64N 142.76E 13 4.5,3.3s
IDC III 26 04 03 46.6–.60 37.61N 142.79E 0 4.3,4.2
ISCJB III 26 04 03 48.3–.39 37.64N–.04 142.73E–.05 21 4.3b,3.3s
NEIC III 26 04 03 49.3–.82 37.67N 142.85E 17–4 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ77.00000°,λ168.00000°. NP2:ϕ_s350.00000°,δ78.00000°,λ13.00000°. $M_0$1.41000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=13.4km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.2km az=144.5.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.8km az=142.0.
ISC III 26 04 55 10.5–.68 38.84N–.06 144.13E–.07 23 3.7b 46 2-87
ISCJB III 26 04 55 09.2–.50 38.88N–.04 144.08E–.04 23 3.7b,3.4s ¶16459590
JMA III 26 04 55 10.7–.20 38.89N 144.07E 45 4.0,3.4s
IDC III 26 04 55 12.7–3.1 38.68N 144.21E 43–29 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.2km az=149.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.1km s-min=16.7km az=116.0.
ISC III 26 05 36 59.3–3.6 37.35N–.06 142.52E–.06 4–22 4.1b 54 1-141
ISCJB III 26 05 36 57.7–2.0 37.30N–.04 142.59E–.04 4–12 4.1b,3.4s ¶16480934
IDC III 26 05 36 58.9–.70 37.28N 142.53E 0 4.0,3.8
JMA III 26 05 36 59.3–.30 37.36N 142.59E 17 4.2,3.8
NEIC III 26 05 37 04.2–.97 37.30N 142.44E 36–8 4.7b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=1.9.
IDC Error ellipse: s-maj=18.4km s-min=16.5km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.2km az=104.0.
ISC III 26 06 01 32.9–.56 36.85N–.05 143.38E–.06 35 4.2b 64 2-145
IDC III 26 06 01 27.1–.69 36.74N 143.67E 0 4.1,3.9 ¶16480936
NEIC III 26 06 01 28.9–.40 36.75N 143.60E 10 4.8b,3.9
JMA III 26 06 01 30.8–.40 36.84N 143.26E 44 4.0,3.9
ISCJB III 26 06 01 30.7–.37 36.87N–.04 143.35E–.04 33 4.2b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 26 06 08 01.0–.30 37.70N 142.79E 16 3.5
¶602695100
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 26 07 29 44.0–.53 37.03N–.07 143.35E–.06 35 4.3b 68 2-145
IDC III 26 07 29 38.5–.59 36.93N 143.49E 0 4.2,4.1 ¶16361365
JMA III 26 07 29 42.2–.20 37.07N 143.26E 52 3.8,4.1
NEIC III 26 07 29 42.5–2.5 36.91N 143.45E 23–18 4.6b,4.1
ISCJB III 26 07 29 42.2–.29 36.95N–.05 143.32E–.04 33 4.3b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 26 07 35 42.6–.30 37.47N 143.56E 43 3.6
¶602695804
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 26 08 02 21.0–.39 37.42N–.05 142.58E–.04 21 4.7b,4.1s 356 1-148
NIED III 26 08 02 00 37.40N 142.50E 5 4.7W,4.1s ¶16360619
IDC III 26 08 02 17.4–.50 37.27N 142.57E 0 4.6,4.5
JMA III 26 08 02 17.8–.20 37.37N 142.51E 4–3 4.5,4.5
ISCJB III 26 08 02 19.6–.20 37.36N–.03 142.54E–.03 21 4.7b,4.2s
BJI III 26 08 02 20.6 37.43N 142.73E 42 5.0b,4.7b
NEIC III 26 08 02 23.8–.50 37.31N 142.50E 42–4 4.7b,4.7b
MOS III 26 08 02 24.5–.94 37.75N 142.38E 44 5.0b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ10.00000°,λ-143.00000°. NP2:ϕ_s66.00000°,δ84.00000°,λ-82.00000°. $M_0$1.36000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=12.1km az=129.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.8km az=169.5.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=150.0.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=107.4.
JMA III 26 08 11 46.0–.20 37.82N 143.61E 1 3.6
¶602695778
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 26 08 19 38.3–.61 37.02N–.03 143.34E–.04 26–3 4.9b,4.5s 453 2-159
ISCJB III 26 08 19 34.0–.75 37.04N–.02 143.26E–.02 5–4 4.8b,4.4s ¶602695768
IDC III 26 08 19 33.9–.44 36.93N 143.41E 0 4.7,4.6
JMA III 26 08 19 36.6–.20 37.06N 143.31E 50 4.9,4.6
NEIC III 26 08 19 37.9–1.1 36.94N 143.34E 22–8 4.9b,4.6
MOS III 26 08 19 37.9–1.1 37.00N 143.33E 33 5.0b,4.3s
BJI III 26 08 19 42.3 37.29N 142.77E 40 5.1b,4.8s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=168.1.
IDC Error ellipse: s-maj=12.2km s-min=11.3km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=144.0.
MOS Error ellipse: s-maj=6.9km s-min=5.1km az=103.6.
JMA III 26 08 27 23.5–.30 38.58N 144.18E 28 3.6
¶602695757
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 26 09 01 40.0–1.2 38.12N–.07 143.78E–.08 35 3.5b 22 2-62
IDC III 26 09 01 34.5–3.4 37.76N 144.34E 0 3.6,3.5b ¶600567528
ISCJB III 26 09 01 38.4–.92 38.15N–.06 143.76E–.05 33 3.4b,3.5b
JMA III 26 09 01 39.3–.20 38.15N 143.65E 28 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=91.1km s-min=27.8km az=157.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.7km az=159.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 26 09 12 03.9–1.2 36.38N–.05 143.30E–.09 35 3.5b 26 2-89
IDC III 26 09 12 00.2–.94 36.12N 143.50E 0 3.9,3.7 ¶17198621

NIED III 26 09 12 00 36.40N 143.10E 8 3.7W,3.7
ISCJB III 26 09 12 03.3–.73 36.40N–.04 143.22E–.06 33 3.7b,3.7
JMA III 26 09 12 04.6–.20 36.43N 143.15E 67 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=20.2km az=82.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ28.00000°,λ-68.00000°. NP2:ϕ_s197.00000°,δ64.00000°,λ-101.00000°. $M_0$3.69000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.1km az=38.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 09 18 19.8–1.1 37.04N–.06 143.95E–.09 35 3.5b 19 2-61
IDC III 26 09 18 15.2–1.1 36.91N 144.20E 0 3.8,3.7 **¶17198623**
ISCJB III 26 09 18 18.1–.83 37.08N–.05 143.93E–.07 33 3.4b,3.7
JMA III 26 09 18 19.1–.40 37.10N 143.88E 46 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=43.5km s-min=20.2km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.4km az=140.1.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 26 09 38 31.8–.20 37.40N 143.12E 50 3.5 ¶602694922
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 09 42 42.5–.58 36.37N–.05 142.83E–.07 29 4.1b,3.3s 67 2-146
NIED III 26 09 42 00 36.40N 142.70E 5 4.1W,3.3s **¶17198624**
IDC III 26 09 42 37.7–.62 36.29N 142.98E 0 4.2,4.1
ISCJB III 26 09 42 40.5–.38 36.30N–.03 142.81E–.04 29 4.1b,3.3s
NEIC III 26 09 42 42.6–.39 36.27N 142.95E 35 4.5b,3.3s
JMA III 26 09 42 42.2–.20 36.36N 142.71E 80 3.8,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ36.00000°,λ-92.00000°. NP2:ϕ_s212.00000°,δ54.00000°,λ-89.00000°. $M_0$1.57000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=13.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.1km az=139.4.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.9km az=129.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 26 09 50 39.9–1.5 36.33N–.06 142.8E–.10 29 3.7b 21 2-60
NIED III 26 09 50 00 36.40N 142.80E 5 3.6W **¶17198627**
IDC III 26 09 50 34.0–4.8 36.26N 143.15E 0 3.8,3.8b
JMA III 26 09 50 38.8–.20 36.43N 142.80E 42 3.5,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ34.00000°,λ-91.00000°. NP2:ϕ_s192.00000°,δ56.00000°,λ-90.00000°. $M_0$3.11000×10^{14}
IDC Error ellipse: s-maj=90.4km s-min=39.1km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 26 10 14 47.5–.30 37.67N 142.85E 14 3.5
NIED III 26 10 14 00 37.70N 142.80E 8 3.5W **¶600567594**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ86.00000°,λ0.00000°. NP2: ϕ_s304.00000°,δ90.00000°,λ176.00000°. $M_0$1.69000×10^{14}
ISC III 26 11 02 29.7–2.2 37.51N–.05 142.56E–.05 28–15 4.2b,3.5s 75 1-146
NIED III 26 11 02 00 37.50N 142.60E 8 4.5W,3.5s **¶16362930**
JMA III 26 11 02 25.7–.30 37.53N 142.64E 10–3 4.4,3.5s
IDC III 26 11 02 25.3–.62 37.47N 142.69E 0 4.2,4.1
ISCJB III 26 11 02 26.4–1.4 37.45N–.03 142.71E–.04 19–10 4.2b,3.6s
NEIC III 26 11 02 29.9–1.5 37.48N 142.65E 31–10 4.7b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ12.00000°,λ-129.00000°. NP2:ϕ_s253.00000°,δ81.00000°,λ-82.00000°. $M_0$5.89000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=14.0km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.9km az=23.8.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.9km az=107.0.
ISC III 26 11 10 11.4–.95 40.16N–.06 144.31E–.08 34 3.7b 33 2-73
NIED III 26 11 10 00 40.20N 144.30E 5 3.8W **¶17198631**
IDC III 26 11 10 06.7–2.1 40.19N 144.40E 0 3.8,3.7
JMA III 26 11 10 09.8–.20 40.17N 144.25E 43 3.9,3.7
ISCJB III 26 11 10 09.8–.68 40.17N–.05 144.29E–.06 34 3.6b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ32.00000°,λ-62.00000°. NP2:ϕ_s357.00000°,δ62.00000°,λ-106.00000°. $M_0$5.18000×10^{14}
ISCJB Event type ke.
ISC III 26 11 32 13.9–.65 37.37N–.05 143.23E–.07 24 3.9b 43 2-89
NIED III 26 11 32 00 37.40N 143.10E 8 4.1W **¶602694735**
IDC III 26 11 32 10.3–.67 37.29N 143.27E 0 4.1,3.9
ISCJB III 26 11 32 12.6–.44 37.35N–.04 143.14E–.04 24 3.9b,3.9
JMA III 26 11 32 13.4–.40 37.43N 143.11E 32 3.9,3.9
NEIC III 26 11 32 15.7–.36 37.32N 143.31E 35 4.2b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ39.00000°,λ-100.00000°. NP2:ϕ_s205.00000°,δ52.00000°,λ-82.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=154.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=137.0.
ISC III 26 11 37 58.4–1.3 37.66N–.09 142.2E–.10 24 3.4b 10 1-58
IDC III 26 11 37 54.8–1.4 37.65N 142.48E 0 3.6,3.4b **¶17198634**
ISCJB III 26 11 37 56.8–1.1 37.66N–.08 142.28E–.09 24 3.4b,3.4b
JMA III 26 11 37 58.6–.30 37.67N 142.12E 23 3.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=28.7km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=9.6km az=36.5.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 26 11 59 53.2–.63 37.71N–.05 142.23E–.06 24 3.8b 44 1-146
NIED III 26 11 59 00 37.70N 142.30E 20 3.9W **¶16481010**
IDC III 26 11 59 49.7–.74 37.72N 142.35E 0 3.9,3.8
JMA III 26 11 59 51.8–.20 37.72N 142.27E 26–3 3.9,3.8
ISCJB III 26 11 59 51.3–.45 37.69N–.03 142.32E–.05 24 3.9b,3.8
NEIC III 26 11 59 54.7–.88 37.69N 142.37E 37–8 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ19.00000°,λ138.00000°. NP2:ϕ_s19.00000°,δ77.00000°,λ76.00000°. $M_0$7.71000×10^{14}
IDC Error ellipse: s-maj=21.2km s-min=15.5km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=25.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.7km az=114.0.
ISC III 26 12 15 40.5–.97 37.51N–.10 142.2E–.10 24 3.7b 10 3-63
IDC III 26 12 15 37.1–.95 37.54N 142.23E 0 3.8,3.6 **¶17198636**
ISCJB III 26 12 15 38.4–.82 37.50N–.08 142.3E–.10 24 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 12 20 47.6–.87 36.31N–.07 142.58E–.08 15 3.4b 21 2-90
IDC III 26 12 20 45.3–.99 36.33N 142.58E 0 3.7,3.5 **¶17198637**
ISCJB III 26 12 20 46.3–.72 36.35N–.08 142.63E–.06 15 3.5b,3.5
JMA III 26 12 20 49.7–.20 36.35N 142.52E 77 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=21.2km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.0km az=177.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 12 31 40.1–.70 36.32N–.05 142.60E–.08 15 3.8b 33 2-90
NIED III 26 12 31 00 36.40N 142.60E 5 4.1W **¶17198638**
IDC III 26 12 31 37.7–.74 36.28N 142.64E 0 3.9,3.8
ISCJB III 26 12 31 38.5–.55 36.35N–.04 142.67E–.07 15 3.6b,3.8
JMA III 26 12 31 41.6–.30 36.41N 142.57E 57 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ8.00000°,λ-78.00000°. NP2:ϕ_s246.00000°,δ83.00000°,λ-92.00000°. $M_0$1.57000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=15.1km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.4km az=24.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC III 26 12 33 03.0–7.8 36.76N 142.69E 0 3.9,3.7b ¶17198639
IDC Error ellipse: s-maj=167.5km s-min=46.0km az=29.0.
ISC III 26 12 52 51.9–.31 37.00N–.03 143.30E–.03 27–1 5.2b,4.8s 1077 2-160
IDC III 26 12 52 47.0–.39 36.90N 143.39E 0 5.0,4.9 **¶16361370**
JMA III 26 12 52 47.5–.30 37.00N 143.36E 23 4.9,4.9
GCMT III 26 12 52 51.2–.20 37.02N 143.30E 12 5.1W,4.9
ISCJB III 26 12 52 52.0–.10 37.00N–.02 143.22E–.02 37 5.1b,4.8s
NEIC III 26 12 52 51.2–.58 36.96N 143.29E 21–4 5.2b,4.8s
MOS III 26 12 52 51.8–1.1 37.37N 143.26E 24 5.3b,5.0s
BJI III 26 12 52 54.3 37.23N 142.87E 40 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=11.1km s-min=9.9km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c62; s102,c177; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.04±.08 $M_{\theta\theta}$1.05±.08; $M_{\phi\phi}$3.99±.08; $M_{r\theta}$-0.01±.29; $M_{\theta\phi}$1.04±.07; $M_{\phi r}$3.54±.28; Best double couple: NP1:ϕ_s188.00000°,δ64.00000° ,λ-97.00000°. NP2:ϕ_s24.00000°,δ27.00000°,λ-75.00000°. Principal axes: T 5.4320,Plg18.0000°,Azm283.0000°; N 0.8470,Plg7.0000°,Azm191.0000° ; P -6.2790,Plg71.0000°,Azm82.0000° $M_0$5.85600×10^{16}
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=1.7km az=168.4.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=155.0.
MOS Error ellipse: s-maj=6.2km s-min=3.8km az=97.0.
ISC III 26 13 16 58.6–.55 36.98N–.05 143.25E–.05 32–3 4.7b,3.9s 174 2-145
IDC III 26 13 16 54.0–.48 36.89N 143.41E 0 4.5,4.4 **¶16362933**
JMA III 26 13 16 56.7–.20 37.05N 143.27E 34 4.3,4.4
ISCJB III 26 13 16 58.6–.22 37.00N–.04 143.11E–.03 43 4.6b,3.8s
NEIC III 26 13 16 59.3–.27 37.06N 143.11E 35 4.7b,3.8s
BJI III 26 13 17 02.4 37.22N 142.63E 35 5.2b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=11.0km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.2km az=173.2.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.0km az=161.0.
IDC III 26 14 40 08.1–3.4 36.64N 143.25E 0 3.8,3.7 ¶17198647
IDC Error ellipse: s-maj=60.1km s-min=43.3km az=6.0.
ISC III 26 14 54 39.3–.84 36.98N–.05 143.27E–.08 35 3.5b 26 2-89
IDC III 26 14 54 34.1–.87 36.89N 143.50E 0 3.7,3.6 **¶600567794**
JMA III 26 14 54 37.6–.30 37.06N 143.25E 77 3.4,3.6
ISCJB III 26 14 54 37.3–.65 36.97N–.05 143.25E–.06 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 15 06 34.2–.74 34.96N–.05 141.18E–.08 35 3.6b 24 0-83
IDC III 26 15 06 29.1–.77 34.95N 141.10E 0 3.8,3.7b **¶17198651**
JMA III 26 15 06 30.6–.30 34.94N 141.47E 48–3 3.0,3.7b
ISCJB III 26 15 06 32.5–.61 34.96N–.04 141.24E–.08 35 3.8s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 16 00 39.0–1.1 38.34N–.08 144.71E–.09 29 3.8b 21 3-87
NIED III 26 16 00 00 38.40N 144.50E 5 3.7W **¶17198653**
IDC III 26 16 00 34.2–1.1 38.15N 145.12E 0 3.8,3.6
ISCJB III 26 16 00 37.7–.80 38.31N–.07 144.67E–.07 29 3.5b,3.6
JMA III 26 16 00 38.7–.20 38.37N 144.49E 16 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ24.00000°,λ-88.00000°. NP2:ϕ_s205.00000°,δ66.00000°,λ-91.00000°. $M_0$4.06000×10^{14}
IDC Error ellipse: s-maj=29.5km s-min=21.8km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.2km az=16.7.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 26 16 22 37.9–2.8 37.70N–.05 142.44E–.06 32–19 4.4b 87 1-146
NIED III 26 16 22 00 37.70N 142.40E 8 4.3W **¶602694115**
BJI III 26 16 22 32.6 37.64N 142.80E 27 5.0b,4.7b
JMA III 26 16 22 35.6–.20 37.71N 142.42E 25–4 4.6,4.7b
ISCJB III 26 16 22 36.2–1.4 37.71N–.04 142.47E–.05 32–10 4.4b,4.0s
IDC III 26 16 22 39.1–2.4 37.69N 142.42E 40–21 4.3,4.2
NEIC III 26 16 22 39.6–1.2 37.69N 142.41E 48–10 4.7b,4.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s256.00000°,δ36.00000°,λ-28.00000°. NP2:ϕ_s10.00000°,δ74.00000°,λ-122.00000°. $M_0$3.33000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=5.9km az=163.8.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=107.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.4km az=121.0.
ISC III 26 16 28 36.9–.68 37.64N–.07 142.39E–.07 21 4.0b 36 1-146
NIED III 26 16 28 00 37.70N 142.40E 14 3.9W **¶16459602**
IDC III 26 16 28 33.9–.71 37.64N 142.36E 0 4.0,3.9
JMA III 26 16 28 35.8–.30 37.69N 142.42E 16–3 3.9,3.9
ISCJB III 26 16 28 35.0–.56 37.62N–.05 142.49E–.06 21 3.9b,3.9
NEIC III 26 16 28 40.0–1.9 37.66N 142.32E 44–15 4.7b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ37.00000°,λ-41.00000°. NP2:ϕ_s17.00000°,δ67.00000°,λ-120.00000°. $M_0$7.59000×10^{14}
IDC Error ellipse: s-maj=19.6km s-min=14.9km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=6.3km az=135.6.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=12.2km az=112.0.
ISC III 26 16 30 06.5–2.6 37.8N–.20 143.6E–.30 19 3.7b 9 4-75
IDC III 26 16 30 03.5–3.3 37.90N 143.66E 0 3.8,3.8b **¶17198658**
ISC Event type ke.
IDC Error ellipse: s-maj=64.5km s-min=35.5km az=132.0.
ISC III 26 16 43 03.9–.75 37.29N–.06 142.34E–.08 21 3.9b 31 1-75
NIED III 26 16 43 00 37.40N 142.30E 8 3.9W **¶602694084**
IDC III 26 16 43 00.8–.80 37.26N 142.34E 0 3.9,3.8
ISCJB III 26 16 43 01.6–.59 37.24N–.05 142.43E–.07 21 3.8b,2.9s
JMA III 26 16 43 02.6–.50 37.41N 142.28E 13 3.9,2.9s
NEIC III 26 16 43 06.0–.59 37.31N 142.37E 35 4.6b,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ41.00000°,λ-71.00000°. NP2:ϕ_s315.00000°,δ51.00000°,λ-106.00000°. $M_0$8.19000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=15.2km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.4km az=25.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.1km az=141.0.
ISC III 26 16 52 26.2–1.6 37.68N–.07 142.2E–.10 14 3.2b 12 1-58
IDC III 26 16 52 22.2–2.8 37.95N 142.58E 0 3.5,3.5b **¶17198659**
ISCJB III 26 16 52 25.3–1.3 37.67N–.06 142.26E–.09 14 3.2b,3.5b
JMA III 26 16 52 28.8–.20 37.68N 142.07E 20–4 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=68.0km s-min=31.5km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.5km az=162.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 17 01 14.5–1.4 36.0N–.20 143.6E–.20 35 3.4b 8 4-56
IDC III 26 17 01 09.2–1.4 35.97N 143.65E 0 3.5,3.3 **¶17198660**
ISCJB III 26 17 01 12.1–1.2 35.9N–.20 143.5E–.20 33 3.3b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 17 11 42.5–.68 37.74N–.05 142.16E–.07 30 3.7b 30 1-89
ISCJB III 26 17 11 40.8–.53 37.75N–.05 142.20E–.05 30 3.6b,3.4s **¶600567951**
JMA III 26 17 11 41.5–.20 37.73N 142.10E 26–4 4.0,3.4s
IDC III 26 17 11 45.8–2.4 37.71N 142.07E 60–21 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.0km az=158.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=14.7km az=96.0.
ISC III 26 17 33 42.7–.79 37.6N–.10 143.5E–.10 35 4.2b 42 4-83
IDC III 26 17 33 37.5–.78 37.62N 143.48E 0 4.3,4.1 **¶16481045**
ISCJB III 26 17 33 40.5–.54 37.57N–.08 143.51E–.09 33 4.2b,3.4s
NEIC III 26 17 33 43.8–1.3 37.59N 143.44E 44–11 4.9b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=16.7km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=9.5km az=153.5.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=8.2km az=112.0.
JMA III 26 18 02 34.1–.20 38.12N 144.38E 9 4.1

¶602693986
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 26 18 16 08.9–5.5 37.56N 142.58E 0 3.8,3.7
¶17198669
IDC Error ellipse: s-maj=105.2km s-min=50.1km az=8.0.
ISC III 26 18 17 11.9–1.0 36.3N–.20 142.7E–.10 15 3.8b 19 4-76
IDC III 26 18 17 09.7–1.1 36.23N 142.51E 0 3.9,3.8 ¶16481051
ISCJB III 26 18 17 09.8–.71 36.2N–.10 142.6E–.10 15 4.0b,3.8
NEIC III 26 18 17 18.3–2.0 36.30N 142.44E 69–16 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=37.5km s-min=20.7km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=12.7km az=32.4.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=12.0km az=68.0.
ISC III 26 18 26 25.0–.57 36.81N–.04 143.79E–.06 35 3.9b,3.3s 75 2-89
IDC III 26 18 26 19.5–.70 36.74N 143.95E 0 4.2,4.0 ¶16459603
NEIC III 26 18 26 21.2–3.0 36.71N 143.94E 11–19 4.5b,4.0
JMA III 26 18 26 23.4–.20 36.87N 143.67E 46 4.3,4.0
ISCJB III 26 18 26 23.3–.35 36.84N–.04 143.70E–.04 33 4.0b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 18 38 08.8–.93 39.10N–.08 144.25E–.08 19 3.5b 30 2-75
IDC III 26 18 38 05.1–1.1 38.92N 144.45E 0 3.8,3.6 ¶17198673
ISCJB III 26 18 38 07.3–.69 39.09N–.06 144.24E–.05 19 3.5b,3.6
JMA III 26 18 38 08.3–.20 39.08N 144.26E 42 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=19.8km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.5km az=166.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 26 18 39 32.2–.30 38.48N 144.45E 24 4.2
¶602693930
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 26 19 20 53.0–.30 39.94N 143.73E 11 3.5
¶602693857
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 26 19 41 54.4–.84 37.96N–.05 142.58E–.08 14 3.9b 46 1-74
IDC III 26 19 41 52.5–1.1 37.93N 142.57E 0 3.8,3.8b ¶600568111
ISCJB III 26 19 41 52.3–.52 37.90N–.04 142.73E–.06 14 3.9b,3.1s
JMA III 26 19 41 53.1–.30 37.96N 142.72E 22–4 4.1,3.1s
NEIC III 26 19 41 58.2–1.1 37.97N 142.53E 40–8 4.3b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=30.3km s-min=16.7km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=1.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=7.7km az=103.0.
ISC III 26 20 00 28.6–.85 37.13N–.06 142.32E–.07 9 3.5b 21 1-75
ISCJB III 26 20 00 27.0–.70 37.17N–.05 142.54E–.07 9 3.5b ¶17198680
IDC III 26 20 00 27.2–1.1 37.11N 142.41E 0 3.8,3.7
JMA III 26 20 00 28.9–.40 37.20N 142.28E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.6km az=141.9.
IDC Error ellipse: s-maj=26.5km s-min=19.9km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 26 20 05 54.4–.47 36.25N–.05 142.02E–.06 23 4.5b,3.7s 119 1-147
NIED III 26 20 05 00 36.20N 142.10E 5 4.4W,3.7s ¶602693770
IDC III 26 20 05 50.4–.57 36.18N 142.04E 0 4.3,4.2
ISCJB III 26 20 05 52.8–.24 36.23N–.03 142.05E–.04 23 4.3b,3.6s
JMA III 26 20 05 53.1–.30 36.24N 142.12E 70 3.5,3.6s
NEIC III 26 20 05 56.4–.67 36.16N 142.01E 40–6 4.6b,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ37.00000°,λ95.00000°. NP2:ϕ_s216.00000°,δ53.00000°,λ86.00000°. $M_0$3.83000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=12.5km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.4km az=138.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=149.0.
ISC III 26 20 43 08.0–.92 37.74N–.06 144.62E–.08 35 3.8b 29 3-88
IDC III 26 20 43 02.8–.72 37.52N 144.86E 0 4.0,3.8 ¶17198682
ISCJB III 26 20 43 06.7–.60 37.76N–.05 144.52E–.05 35 3.7b,3.4s
JMA III 26 20 43 07.4–.30 37.71N 144.46E 65 4.2,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=17.4km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.2km az=179.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 26 20 57 25.3–1.2 37.85N–.07 142.3E–.10 14 3.7b 20 1-62
IDC III 26 20 57 21.8–1.8 37.92N 142.65E 0 3.8,3.8 ¶17198684
ISCJB III 26 20 57 23.0–.92 37.80N–.06 142.48E–.09 14 3.6b,3.8
JMA III 26 20 57 27.3–.20 37.74N 142.11E 24–3 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=48.4km s-min=20.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.2km az=155.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 26 21 16 06.1–2.0 40.2N–.10 143.5E–.20 6 4.0b 15 2-67
ISCJB III 26 21 16 05.1–1.6 40.22N–.09 143.4E–.20 6 3.9b,3.4s ¶16481076
IDC III 26 21 16 06.3–3.5 40.35N 143.39E 0 3.8b,3.7
NEIC III 26 21 16 11.2–1.9 40.12N 143.52E 51–10 4.1b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.8km s-min=9.4km az=18.8.
IDC Error ellipse: s-maj=68.1km s-min=31.1km az=133.0.
NEIC Event type se. Error ellipse: s-maj=38.4km s-min=9.7km az=117.0.
IDC III 26 21 20 54.0–9.4 36.45N 142.07E 0 3.1b,3.0
¶17198688
IDC Error ellipse: s-maj=156.8km s-min=76.1km az=136.0.
ISC III 26 21 31 45.1–.62 38.24N–.05 144.33E–.07 35 4.0b 63 2-88
IDC III 26 21 31 39.5–.66 38.14N 144.45E 0 4.1,4.0 ¶16481078
NEIC III 26 21 31 42.1–3.2 38.19N 144.46E 15–19 4.3b,4.0
JMA III 26 21 31 43.4–.30 38.26N 144.25E 40 4.4,4.0
ISCJB III 26 21 31 43.4–.43 38.30N–.04 144.28E–.04 33 4.0b,2.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 22 06 13.8–.72 36.40N–.06 143.41E–.07 35 3.8b 32 2-89
NIED III 26 22 06 00 36.40N 143.10E 5 3.9W ¶16459604
IDC III 26 22 06 08.6–.78 36.39N 143.64E 0 4.0,3.8
ISCJB III 26 22 06 12.2–.57 36.45N–.06 143.41E–.06 33 3.7b,2.9s
JMA III 26 22 06 15.8–.40 36.43N 143.13E 72 3.7,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ21.00000°,λ-92.00000°. NP2:ϕ_s231.00000°,δ69.00000°,λ-89.00000°. $M_0$8.08000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=18.7km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.5km az=163.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 26 22 42 02.9–1.8 37.33N–.10 142.2E–.10 21 3.2b 9 1-49
NIED III 26 22 42 00 37.30N 142.40E 20 3.5W ¶17198691
IDC III 26 22 42 00.8–4.8 37.37N 142.49E 0 3.3,3.2
JMA III 26 22 42 01.0–.70 37.33N 142.42E 23 3.6,3.2
ISCJB III 26 22 42 01.5–1.4 37.3N–.10 142.4E–.10 21 3.2b,3.2
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ83.00000°,λ1.00000°. NP2:ϕ_s329.00000°,δ89.00000°,λ173.00000°. $M_0$2.01000×10^{14}
ISCJB Event type ke.
ISC III 26 22 48 14.4–1.3 39.5N–.20 143.7E–.10 11 3.8b 16 5-67
ISCJB III 26 22 48 12.6–1.1 39.5N–.10 143.7E–.10 11 4.3s,3.8b ¶16481083
IDC III 26 22 48 13.1–2.3 39.59N 143.62E 0 4.2,4.2s
NEIC III 26 22 48 14.9–4.4 39.55N 143.65E 13–28 4.3b,4.2s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=10.7km az=42.8.
IDC Error ellipse: s-maj=49.6km s-min=23.0km az=153.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=9.0km az=126.0.
JMA III 26 22 54 30.0–.40 36.82N 142.40E 22 3.6
NIED III 26 22 54 00 36.80N 142.40E 23 3.7W ¶600568322
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ43.00000°,λ-110.00000°. NP2:ϕ_s204.00000°,δ51.00000°,λ-72.00000°. $M_0$3.36000×10^{14}
JMA III 26 23 07 49.8–.30 38.07N 144.53E 52 3.9
¶602694255
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 26 23 10 28.5–1.8 36.5N–.20 143.3E–.10 35 3.8b 12 2-60
IDC III 26 23 10 22.8–3.4 36.35N 143.58E 0 3.8,3.6b ¶17198693
JMA III 26 23 10 27.5–.30 36.52N 143.04E 0 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=91.7km s-min=29.4km az=56.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 26 23 30 09.5–1.4 37.68N–.05 142.09E–.08 10 3.6b 18 1-62
ISCJB III 26 23 30 08.4–.95 37.65N–.04 142.16E–.07 10 3.4b ¶17198694
JMA III 26 23 30 09.1–.20 37.68N 142.14E 16–2 3.8
IDC III 26 23 30 09.2–2.5 37.51N 142.32E 0 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.4km az=1.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=68.8km s-min=25.7km az=59.0.
ISC III 26 23 47 37.3–1.4 40.13N–.06 144.30E–.10 10 3.7b 34 2-67
IDC III 26 23 47 34.9–3.6 40.09N 144.58E 0 3.7,3.7 ¶17198697
ISCJB III 26 23 47 36.5–.84 40.14N–.04 144.24E–.07 10 3.6b,3.7
JMA III 26 23 47 38.2–.20 40.13N 144.30E 39 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=65.5km s-min=32.1km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.6km az=30.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC III 27 00 03 39.3–10 36.40N 142.73E 0 3.3,3.3b
¶17198700
IDC Error ellipse: s-maj=181.6km s-min=82.8km az=140.0.
ISC III 27 00 13 09.4–.53 36.76N–.06 144.47E–.06 26 4.0b 75 3-145
IDC III 27 00 13 04.8–.58 36.61N 144.65E 0 4.2,4.0 ¶16459607
NEIC III 27 00 13 05.9–4.8 36.59N 144.69E 8–29 4.3b,4.0
ISCJB III 27 00 13 07.9–.38 36.77N–.04 144.41E–.03 26 4.1b,4.0
JMA III 27 00 13 09.2–.20 36.81N 144.38E 46 4.4,4.0
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=13.8km az=154.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=9.4km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.3km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 00 20 13.7–1.2 37.81N–.05 143.79E–.07 19 3.7b 30 2-58
IDC III 27 00 20 12.2–1.5 37.49N 144.14E 0 3.8,3.7 ¶17198702
ISCJB III 27 00 20 14.7–.81 37.86N–.04 143.72E–.06 19 3.6b,3.7
JMA III 27 00 20 15.9–.20 37.85N 143.75E 43 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=33.0km s-min=23.7km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.3km az=135.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 00 23 50.5–.35 36.84N–.04 144.51E–.05 26 4.6b 202 3-159
IDC III 27 00 23 45.8–.50 36.75N 144.64E 0 4.4,4.3 ¶16362947
BJI III 27 00 23 48.2 36.70N 144.91E 33 5.0b,4.5s
NEIC III 27 00 23 49.9–2.0 36.84N 144.53E 18–13 4.7b,4.5s
ISCJB III 27 00 23 49.5–.19 36.89N–.03 144.38E–.02 26 4.6b,4.3s
JMA III 27 00 23 50.5–.30 36.81N 144.34E 48 4.5,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=12.3km az=162.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.3km az=162.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 27 00 34 42.7–.97 37.1N–.10 143.7E–.10 35 3.8b 15 4-89
IDC III 27 00 34 37.5–1.1 37.06N 143.79E 0 4.0,3.9 ¶16481103
ISCJB III 27 00 34 40.5–.77 37.1N–.10 143.6E–.10 33 3.9b,3.9
NEIC III 27 00 34 42.7–.61 37.08N 143.66E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.7km s-min=21.1km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=10.9km az=154.5.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.9km az=160.0.
ISC III 27 00 37 38.8–.62 37.15N–.06 144.44E–.07 26 4.0b 56 3-88
IDC III 27 00 37 34.6–.71 37.04N 144.50E 0 4.5,4.5s ¶16481106
ISCJB III 27 00 37 37.2–.41 37.15N–.05 144.42E–.04 26 4.5s,4.0b
JMA III 27 00 37 39.3–.30 37.15N 144.34E 46 4.5,4.0b
NEIC III 27 00 37 39.6–.51 37.08N 144.51E 35 4.2b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=15.6km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=172.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.4km az=161.0.
JMA III 27 01 20 00.6–.20 38.01N 143.79E 0 3.5
¶602697998
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 01 38 04.0–.52 38.68N–.06 143.38E–.07 15 4.1b,3.7s 55 2-117
IDC III 27 01 38 01.6–.61 38.65N 143.36E 0 4.1,4.0L ¶16459609
JMA III 27 01 38 02.9–.20 38.70N 143.32E 7 4.1,4.0L
ISCJB III 27 01 38 02.2–.39 38.67N–.04 143.46E–.05 15 4.0b,3.7s
NEIC III 27 01 38 05.4–2.1 38.71N 143.35E 23–15 4.3b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=14.7km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=43.4.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.3km az=113.0.
ISC III 27 01 47 26.6–1.7 37.43N–.09 142.04E–.10 24 13 1-49
IDC III 27 01 47 19.8–5.4 36.58N 142.61E 0 3.4,3.2b ¶17198709
ISCJB III 27 01 47 25.8–1.2 37.39N–.06 142.09E–.09 24 3.1b,3.2b
JMA III 27 01 47 25.4–.30 37.29N 142.04E 27–5 3.3,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=139.3km s-min=34.6km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.8km az=11.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 01 57 45.1–.70 37.65N–.06 142.45E–.07 21 3.8b 27 1-89
IDC III 27 01 57 41.8–.89 37.64N 142.63E 0 3.9,3.7 ¶600568437
JMA III 27 01 57 43.6–.30 37.65N 142.49E 16–3 4.4,3.7
ISCJB III 27 01 57 43.4–.65 37.65N–.07 142.58E–.07 21 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 01 59 35.2–.69 36.99N–.08 143.68E–.08 35 4.1b 33 2-145
NIED III 27 01 59 00 37.30N 142.50E 35 3.8W ¶16481112
IDC III 27 01 59 30.2–.71 37.02N 143.80E 0 4.1,4.0
ISCJB III 27 01 59 32.7–.47 36.99N–.06 143.77E–.05 33 4.2b,4.0
NEIC III 27 01 59 33.7–3.5 37.04N 143.71E 24–24 4.3b,4.0
JMA III 27 01 59 58.2–.20 37.26N 142.50E 34 3.8,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ44.00000°,λ-18.00000°. NP2:ϕ_s38.00000°,δ78.00000°,λ-132.00000°. $M_0$6.42000×10^{14}
IDC Error ellipse: s-maj=23.2km s-min=16.2km az=87.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.0km az=2.3.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.8km az=114.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 27 02 08 07.3–.81 38.71N–.10 144.6E–.10 29 3.9b 27 3-87
IDC III 27 02 08 03.4–.82 38.68N 144.53E 0 3.8,3.8L ¶16481113
NEIC III 27 02 08 04.5–3.4 38.73N 144.53E 7–20 4.1b,3.8L
ISCJB III 27 02 08 05.6–.63 38.66N–.07 144.5E–.10 29 3.8b,3.8L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 27 02 28 48.7–.70 38.59N–.06 144.48E–.07 29 3.6b 44 2-87
IDC III 27 02 28 44.5–.79 38.55N 144.68E 0 3.9,3.8 ¶17198711
JMA III 27 02 28 47.9–.30 38.72N 144.39E 46 3.9,3.8
ISCJB III 27 02 28 47.0–.50 38.59N–.05 144.45E–.05 29 3.6b,3.6s
ISC Event type ke.
ISCJB Event type ke.

ISC III 27 02 36 32.9–1.9 36.1N–.10 143.3E–.20 35 3.5b 7 4-60
IDC III 27 02 36 25.7–1.2 36.22N 143.80E 0 3.8,3.7 **¶17198712**
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=24.3km az=104.0.
ISC III 27 02 52 40.7–1.1 37.17N–.07 142.7E–.10 9 4.1b 34 2-61
IDC III 27 02 52 36.9–2.0 37.35N 143.02E 0 4.0,4.0 **¶600568464**
ISCJB III 27 02 52 38.4–.63 37.14N–.05 142.77E–.06 9 4.1b,4.0
JMA III 27 02 52 40.1–.20 37.23N 142.71E 16 4.0,4.0
NEIC III 27 02 52 44.0–.90 37.18N 142.76E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=53.4km s-min=20.0km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.9km az=4.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=12.7km az=101.0.
ISC III 27 03 05 01.4–.76 39.71N–.06 143.27E–.07 11 4.0b 46 1-81
ISCJB III 27 03 04 59.3–.54 39.65N–.05 143.42E–.06 11 4.0b **¶16481124**
IDC III 27 03 04 59.4–1.1 39.62N 143.41E 0 4.0,3.9
JMA III 27 03 05 02.3–.30 39.66N 143.21E 16–3 4.2,3.9
NEIC III 27 03 05 02.8–3.1 39.70N 143.31E 19–18 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.3km az=146.4.
IDC Error ellipse: s-maj=24.5km s-min=16.9km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=7.0km az=119.0.
ISC III 27 03 40 03.0–.57 37.63N–.07 144.05E–.06 35 4.1b 65 2-88
IDC III 27 03 39 57.2–.58 37.49N 144.19E 0 4.1,4.0 **¶602697697**
NEIC III 27 03 40 00.5–2.9 37.50N 144.12E 21–20 4.3b,4.0
ISCJB III 27 03 40 00.8–.38 37.58N–.05 144.01E–.04 33 4.0b,4.0
JMA III 27 03 40 01.7–.20 37.63N 143.94E 44 4.5,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=13.7km az=124.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.3km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.0km az=175.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 04 03 03.8–1.1 37.7N–.20 143.2E–.10 24 3.6b 10 4-69
IDC III 27 04 03 00.1–.93 37.68N 143.22E 0 3.7,3.5 **¶17198723**
ISCJB III 27 04 03 01.6–.85 37.6N–.10 143.2E–.10 24 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 04 16 19.5–.74 37.69N–.06 143.46E–.07 35 3.5b 36 2-115
NIED III 27 04 16 00 37.70N 143.40E 5 3.8W **¶17198724**
IDC III 27 04 16 14.2–.80 37.40N 143.69E 0 3.9,3.8
ISCJB III 27 04 16 18.8–.61 37.72N–.04 143.42E–.05 33 3.7s,3.6b
JMA III 27 04 16 19.1–.20 37.73N 143.37E 39 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ12.00000°,λ-94.00000°. NP2:ϕ_s150.00000°,δ78.00000°,λ-89.00000°. $M_0$6.29000×10^{14}
IDC Error ellipse: s-maj=21.1km s-min=16.6km az=155.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.4km az=152.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 04 32 42.6–1.6 36.94N–.06 143.8E–.10 35 3.5b 22 2-61
NIED III 27 04 32 00 37.10N 143.50E 5 3.6W **¶17198726**
ISCJB III 27 04 32 41.3–1.0 36.95N–.05 143.79E–.08 33 3.5b
IDC III 27 04 32 41.6–2.3 36.35N 143.94E 0 3.7,3.6
JMA III 27 04 32 42.1–.30 37.14N 143.50E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ21.00000°,λ-119.00000°. NP2:ϕ_s247.00000°,δ71.00000°,λ-79.00000°. $M_0$2.72000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.2km az=152.6.
IDC Error ellipse: s-maj=56.0km s-min=24.6km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 27 04 42 18.4–5.2 35.80N 142.48E 0 3.5,3.4
¶602697560
IDC Error ellipse: s-maj=80.6km s-min=33.3km az=103.0.
ISC III 27 04 43 22.6–.77 38.56N–.07 143.23E–.07 23 3.9b 29 1-88
NIED III 27 04 43 00 38.60N 143.20E 8 3.6W **¶16481139**
IDC III 27 04 43 18.7–.87 38.44N 143.32E 0 3.9s,3.9
ISCJB III 27 04 43 20.4–.52 38.49N–.05 143.29E–.05 23 4.0s,3.8b
JMA III 27 04 43 20.8–.20 38.60N 143.18E 6–4 3.9,3.8b
NEIC III 27 04 43 22.4–3.0 38.48N 143.28E 24–21 4.2b,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ44.00000°,λ-126.00000°. NP2:ϕ_s81.00000°,δ56.00000°,λ-60.00000°. $M_0$3.16000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=19.9km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.7km az=15.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.2km az=119.0.
ISC III 27 04 55 15.6–3.4 36.80N–.04 142.74E–.06 27–25 3.9b 42 2-83
NIED III 27 04 55 00 36.80N 142.90E 8 4.0W **¶17198730**
JMA III 27 04 55 13.2–.20 36.76N 142.87E 59 3.9
ISCJB III 27 04 55 14.1–1.6 36.78N–.03 142.75E–.05 29–12 3.9b
IDC III 27 04 55 16.5–4.1 36.68N 142.88E 39–39 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ41.00000°,λ85.00000°. NP2:ϕ_s26.00000°,δ50.00000°,λ94.00000°. $M_0$1.10000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.3km az=23.8.
IDC Error ellipse: s-maj=47.7km s-min=30.6km az=167.0.
ISC III 27 05 03 26.0–.64 36.76N–.05 142.86E–.07 25 4.1b 57 2-89
ISCJB III 27 05 03 23.9–.43 36.75N–.04 142.86E–.04 25 4.1b **¶16481146**
JMA III 27 05 03 24.2–.40 36.77N 142.87E 38 4.0
NEIC III 27 05 03 26.9–.44 36.72N 142.94E 35 4.5b
IDC III 27 05 03 26.8–4.9 36.71N 142.95E 33–37 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=140.8.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.3km az=138.0.
IDC Error ellipse: s-maj=19.9km s-min=16.1km az=101.0.
ISC III 27 05 04 17.2–.80 38.1N–.10 143.45E–.10 19 4.2b 28 4-118
IDC III 27 05 04 14.5–.80 38.17N 143.44E 0 4.2,4.0 **¶16459612**
ISCJB III 27 05 04 15.3–.62 38.16N–.08 143.43E–.09 19 4.1b,4.0
NEIC III 27 05 04 19.7–.48 38.21N 143.43E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=16.6km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=8.6km az=140.5.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.2km az=141.0.
IDC III 27 05 30 06.7–2.4 36.05N 142.59E 0 3.6,3.6
¶17198735
IDC Error ellipse: s-maj=49.0km s-min=26.0km az=75.0.
ISC III 27 05 32 19.7–.81 36.1N–.10 143.9E–.10 35 3.6b 13 4-89
IDC III 27 05 32 14.7–.75 36.10N 143.97E 0 4.0,3.8 **¶17198737**
ISCJB III 27 05 32 17.9–.67 36.06N–.10 143.8E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 05 34 31.3–.64 37.19N–.06 143.88E–.07 35 3.9b 38 2-88
ISCJB III 27 05 34 29.6–.51 37.19N–.05 143.84E–.04 33 3.9b,3.0s **¶17198738**
JMA III 27 05 34 30.3–.20 37.25N 143.83E 46 4.1,3.0s
IDC III 27 05 34 30.9–.73 37.12N 144.06E 30–5 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.0km az=170.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=14.2km az=111.0.
ISC III 27 06 00 32.7–.61 39.87N–.06 143.37E–.06 6 4.2b,3.4s 55 1-87
ISCJB III 27 06 00 30.8–.42 39.85N–.04 143.49E–.05 6 4.1b,3.4s **¶16459613**
IDC III 27 06 00 31.8–.65 39.83N 143.31E 0 4.2,4.0
JMA III 27 06 00 32.4–.30 39.88N 143.43E 13–3 4.2,4.0
NEIC III 27 06 00 37.8–.86 39.86N 143.29E 43–7 4.4b,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=141.4.
IDC Error ellipse: s-maj=16.8km s-min=14.2km az=135.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=108.0.
ISC III 27 06 08 43.5–.74 37.29N–.05 143.89E–.08 35 3.8b 58 2-88
IDC III 27 06 08 38.1–.69 37.03N 144.12E 0 4.1,3.9 **¶16481156**
ISCJB III 27 06 08 41.8–.46 37.29N–.04 143.87E–.04 33 4.0b,3.2s
JMA III 27 06 08 41.8–.30 37.26N 143.86E 51 4.3,3.2s
NEIC III 27 06 08 43.3–.50 37.12N 144.07E 35 4.5b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=15.9km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.2km az=150.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.9km az=135.0.
ISC III 27 06 19 33.3–1.5 39.67N–.08 143.5E–.20 11 3.7b 16 2-67
NIED III 27 06 19 00 39.70N 143.70E 17 3.7W **¶17198743**
JMA III 27 06 19 30.9–.30 39.66N 143.72E 14 3.7
ISCJB III 27 06 19 31.4–1.3 39.65N–.08 143.6E–.20 11 3.7b
IDC III 27 06 19 32.7–4.2 39.73N 143.36E 0 3.8,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ33.00000°,λ41.00000°. NP2:ϕ_s43.00000°,δ69.00000°,λ116.00000°. $M_0$3.77000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=7.7km az=27.4.
IDC Error ellipse: s-maj=86.2km s-min=28.0km az=135.0.
JMA III 27 06 43 41.2–.20 37.93N 142.54E 37–4 3.8
NIED III 27 06 43 00 37.90N 142.50E 50 3.7W **¶600568635**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ78.00000°,λ168.00000°. NP2:ϕ_s256.00000°,δ78.00000°,λ13.00000°. $M_0$3.94000×10^{14}
JMA III 27 06 50 38.0–.30 38.38N 144.49E 45 4.1
¶602697849
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 27 06 58 45.4–1.0 38.4N–.20 144.6E–.10 29 3.6b 12 5-75
IDC III 27 06 58 40.9–1.1 38.33N 144.63E 0 3.8,3.6 **¶17198744**
ISCJB III 27 06 58 43.3–.92 38.3N–.10 144.6E–.10 29 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 07 10 05.1–.73 38.21N–.05 144.20E–.05 26–4 4.2b 102 2-144
IDC III 27 07 10 00.7–.60 38.06N 144.35E 0 4.2,4.1 **¶16362957**
ISCJB III 27 07 10 03.4–1.3 38.16N–.04 144.16E–.04 26–9 4.2b,4.1
JMA III 27 07 10 04.6–.20 38.23N 144.14E 41 4.5,4.1
NEIC III 27 07 10 04.5–2.1 38.12N 144.27E 22–15 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=13.6km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.7km az=180.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.0km az=120.0.
ISC III 27 07 23 00.7–1.1 37.2N–.10 143.96E–.10 35 3.6b 15 5-61
IDC III 27 07 22 55.3–.94 37.10N 144.10E 0 3.9,3.7 **¶17198750**
ISCJB III 27 07 22 58.3–.80 37.1N–.10 143.96E–.08 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 27 08 16 17.7–.98 37.38N 143.84E 0 3.6,3.4
¶17198755
IDC Error ellipse: s-maj=28.9km s-min=22.6km az=92.0.
ISC III 27 08 20 46.8–.74 37.70N–.06 143.83E–.08 35 3.7b 28 2-76
IDC III 27 08 20 41.5–.79 37.62N 143.99E 0 3.9,3.7 **¶17198757**
ISCJB III 27 08 20 44.8–.58 37.71N–.06 143.81E–.06 33 3.7b,3.7
JMA III 27 08 20 46.1–.20 37.84N 143.74E 34 4.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=16.6km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.0km az=23.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 27 08 23 27.7–.20 38.56N 143.62E 2 3.6
¶602697753
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 08 29 50.6–.87 36.76N–.10 143.23E–.08 29 3.5b 18 2-89
IDC III 27 08 29 46.1–.87 36.75N 143.26E 0 3.7,3.4 **¶17198758**
ISCJB III 27 08 29 48.8–.70 36.78N–.08 143.21E–.07 29 3.9s,3.5b
JMA III 27 08 29 59.5–.50 36.50N 142.39E 75 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=21.3km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.2km az=161.5.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
ISC III 27 09 01 20.3–2.6 40.16N–.04 144.35E–.06 26–19 3.8b 39 2-73
NIED III 27 09 01 00 40.20N 144.30E 5 3.6W **¶17198763**
IDC III 27 09 01 15.7–.92 39.98N 144.53E 0 3.8,3.7
JMA III 27 09 01 19.7–.20 40.17N 144.29E 42 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ50.00000°,λ-126.00000°. NP2:ϕ_s24.00000°,δ51.00000°,λ-55.00000°. $M_0$3.05000×10^{14}
IDC Error ellipse: s-maj=22.7km s-min=18.3km az=98.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 09 03 32.7–.64 37.75N–.04 143.44E–.04 24–4 4.7b,4.0s 349 2-145
IDC III 27 09 03 28.6–.52 37.68N 143.50E 0 4.6,4.5 **¶16362958**
ISCJB III 27 09 03 30.1–1.0 37.76N–.03 143.34E–.02 14–6 4.6b,3.8s
JMA III 27 09 03 31.9–.20 37.74N 143.37E 47 4.4,3.8s
BJI III 27 09 03 31.0 37.87N 143.36E 22 4.9b,4.7b
MOS III 27 09 03 33.8–.81 38.01N 143.27E 33 4.9b,4.7b
NEIC III 27 09 03 33.2–1.2 37.76N 143.36E 24–8 4.7b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=11.0km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=161.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=106.9.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=146.0.
ISC III 27 09 11 40.1–1.0 37.13N–.06 143.95E–.08 35 3.6b 24 2-61
IDC III 27 09 11 35.2–1.1 37.00N 144.18E 0 3.7,3.6 **¶17198764**
ISCJB III 27 09 11 38.7–.79 37.20N–.05 143.94E–.07 33 3.6b,3.6
JMA III 27 09 11 40.2–.30 37.22N 143.84E 46 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=35.2km s-min=20.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.7km az=42.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 27 09 13 04.6–.41 37.79N–.04 143.40E–.04 25–2 4.8b,4.2s 482 2-145
NIED III 27 09 13 00 37.80N 143.40E 8 4.7W,4.2s **¶602697358**
IDC III 27 09 13 00.5–.48 37.72N 143.48E 0 4.5,4.5
ISCJB III 27 09 13 02.0–.91 37.79N–.03 143.33E–.02 14–5 4.8b,4.2s
JMA III 27 09 13 03.1–.30 37.75N 143.41E 51 4.7,4.2s
BJI III 27 09 13 04.1 37.85N 143.25E 29 5.1b,4.9b
MOS III 27 09 13 05.8–.93 38.04N 143.26E 33 5.1b,4.9b
NEIC III 27 09 13 06.5–.35 37.76N 143.35E 35–3 4.8b,4.9b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ36.00000°,λ-101.00000°. NP2:ϕ_s25.00000°,δ55.00000°,λ-82.00000°. $M_0$1.11000×10^{16}
IDC Error ellipse: s-maj=13.0km s-min=10.9km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.8km az=160.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=6.6km s-min=4.3km az=107.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.4km az=154.0.
ISC III 27 09 24 41.9–3.1 36.22N–.05 142.56E–.08 26–22 3.6b 30 1-90
IDC III 27 09 24 37.7–.82 36.17N 142.66E 0 3.8,3.6 **¶17198765**
JMA III 27 09 24 42.4–.20 36.29N 142.48E 54 3.5,3.6
ISCJB III 27 09 24 42.2–1.3 36.26N–.05 142.53E–.08 44–12 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 09 28 39.6–.74 39.59N–.06 144.44E–.07 23 3.4b 39 2-87
NIED III 27 09 28 00 39.60N 144.30E 5 3.8W **¶17198766**
IDC III 27 09 28 35.7–.72 39.44N 144.51E 0 3.7,3.7
ISCJB III 27 09 28 38.1–.55 39.65N–.05 144.41E–.05 23 3.5b,3.7
JMA III 27 09 28 40.1–.30 39.55N 144.28E 31 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ27.00000°,λ-98.00000°. NP2:ϕ_s189.00000°,δ64.00000°,λ-86.00000°. $M_0$5.35000×10^{14}

IDC Error ellipse: s-maj=20.2km s-min=16.8km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.5km az=149.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 27 09 29 46.1–.83 37.66N–.06 143.54E–.08 35 3.6b 23 2-76
NIED III 27 09 29 00 37.70N 143.50E 26 3.7W ¶17198767
IDC III 27 09 29 41.5–.98 37.57N 143.60E 0 3.8,3.7L
JMA III 27 09 29 44.3–.40 37.67N 143.49E 34 3.8,3.7L
ISCJB III 27 09 29 44.2–.66 37.61N–.06 143.51E–.06 33 3.5b,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ75.00000°,λ11.00000°. NP2:ϕ_s348.00000°,δ79.00000°,λ165.00000°. M_o4.36000×10^{14}
ISCJB Event type ke.
ISC III 27 09 58 46.5–1.7 38.0N–.10 143.1E–.10 19 3.5b 9 1-58
IDC III 27 09 58 42.6–1.7 37.91N 144.34E 0 3.6,3.5b ¶17198770
JMA III 27 09 59 03.3–.10 38.14N 142.09E 13–1 2.7,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=45.8km s-min=29.0km az=106.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 27 10 19 47.8–.98 37.45N–.05 143.62E–.08 35 3.7b 29 2-61
NIED III 27 10 19 00 37.50N 143.50E 41 3.7W ¶17198775
IDC III 27 10 19 42.5–1.1 37.25N 143.86E 0 3.8,3.7
ISCJB III 27 10 19 46.0–.70 37.45N–.04 143.58E–.06 33 3.6b,3.7
JMA III 27 10 19 46.6–.30 37.53N 143.52E 41 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ7.00000°,λ44.00000°. NP2:ϕ_s304.00000°,δ85.00000°,λ95.00000°. M_o4.68000×10^{14}
IDC Error ellipse: s-maj=25.6km s-min=19.3km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=23.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 27 10 46 26.5–.94 36.3N–.10 143.4E–.10 35 3.6b 12 4-64
IDC III 27 10 46 21.7–.89 36.33N 143.54E 0 3.7,3.6 ¶17198777
ISCJB III 27 10 46 24.1–.75 36.23N–.09 143.5E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 11 42 26.4–1.6 36.22N–.05 142.0E–.10 23 3.6b 21 1-47
IDC III 27 11 42 23.9–3.2 36.33N 142.02E 0 3.7,3.6b ¶17198783
JMA III 27 11 42 28.1–.20 36.30N 141.84E 58 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=53.1km s-min=36.8km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 27 11 45 50.3–2.0 38.68N 144.76E 0 3.8,3.7
¶17198785
IDC Error ellipse: s-maj=57.5km s-min=28.4km az=78.0.
ISC III 27 12 18 17.7–.59 39.88N–.06 143.26E–.06 6 4.4b 98 1-95
IDC III 27 12 18 16.4–.64 39.84N 143.24E 0 4.2,4.0 ¶602697010
ISCJB III 27 12 18 16.5–.32 39.88N–.04 143.29E–.04 6 4.3b,3.4s
JMA III 27 12 18 16.9–.30 39.89N 143.41E 13–4 4.2,3.4s
NEIC III 27 12 18 22.8–.77 39.90N 143.13E 39–7 4.5b,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=16.2km s-min=13.3km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.6km az=147.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.2km az=147.0.
ISC III 27 12 28 32.3–.97 36.49N–.09 142.6E–.10 15 3.5b 13 4-64
ISCJB III 27 12 28 30.0–.87 36.42N–.09 142.69E–.10 15 3.6b ¶17198789
IDC III 27 12 28 30.1–1.1 36.57N 142.68E 0 3.7,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=10.0km az=152.5.
IDC Error ellipse: s-maj=25.2km s-min=22.2km az=135.0.
ISC III 27 12 37 59.0–1.6 40.1N–.10 144.3E–.20 34 3.3b 10 6-73
IDC III 27 12 37 52.8–2.0 40.11N 144.66E 0 3.6,3.5 ¶17198790
ISCJB III 27 12 37 56.8–1.6 40.1N–.10 144.4E–.30 34 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 12 43 51.2–2.5 39.24N–.06 143.00E–.06 16–14 4.0b,3.2s 68 1-88
JMA III 27 12 43 48.8–.20 39.09N 143.11E 9–2 4.0,3.2s ¶16481094
IDC III 27 12 43 49.2–.73 39.39N 143.06E 0 3.9,3.8L
ISCJB III 27 12 43 51.0–1.5 39.21N–.04 143.09E–.05 28–10 4.2b,3.2s
NEIC III 27 12 43 53.8–2.0 39.33N 143.01E 32–14 4.7b,3.2s
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.9km s-min=16.5km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.3km az=136.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=115.0.
JMA III 27 12 52 59.1–.30 37.76N 143.89E 40 3.6
NIED III 27 12 52 00 37.80N 143.90E 5 3.9W ¶600568878
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ28.00000°,λ64.00000°. NP2:ϕ_s317.00000°,δ65.00000°,λ103.00000°. M_o6.87000×10^{14}
IDC III 27 13 10 16.0–2.7 36.50N 143.30E 0 3.6,3.5
¶17198791
IDC Error ellipse: s-maj=60.0km s-min=32.4km az=56.0.
ISC III 27 13 37 39.5–.57 37.22N–.06 143.84E–.07 35 3.9b 42 2-88
IDC III 27 13 37 34.3–.63 37.16N 144.04E 0 4.1,3.9 ¶16481095
JMA III 27 13 37 37.5–.40 37.32N 143.84E 40 4.4,3.9
ISCJB III 27 13 37 37.5–.44 37.26N–.05 143.85E–.05 33 3.9b,3.6s
NEIC III 27 13 37 39.3–.51 37.21N 143.89E 35 4.3b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=14.0km az=122.0.
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.7km az=20.6.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.3km az=127.0.
ISC III 27 13 50 45.1–.64 36.94N–.05 143.58E–.07 35 3.7b 49 2-89
IDC III 27 13 50 39.8–.77 36.92N 143.69E 0 3.9,3.8 ¶17198795
ISCJB III 27 13 50 43.3–.48 36.94N–.04 143.51E–.04 33 3.6b,3.8
JMA III 27 13 50 43.9–.20 37.02N 143.52E 50 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=20.5km s-min=16.1km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=143.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 14 27 45.1–2.6 39.82N–.07 143.35E–.09 4–13 3.7b 22 1-60
NIED III 27 14 27 00 39.80N 143.50E 11 3.7W ¶602696880
JMA III 27 14 27 44.8–.20 39.81N 143.46E 12–3 3.8
ISCJB III 27 14 27 45.2–1.7 39.79N–.07 143.48E–.10 16–11 3.6b
IDC III 27 14 27 56.6–1.8 39.52N 140.90E 0 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ7.00000°,λ67.00000°. NP2:ϕ_s29.00000°,δ84.00000°,λ93.00000°. M_o3.94000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.4km az=38.5.
IDC Error ellipse: s-maj=42.7km s-min=25.5km az=79.0.
ISC III 27 14 43 05.9–.73 39.42N–.06 143.78E–.07 11 3.8b 42 2-79
JMA III 27 14 42 59.8–.20 39.42N 144.10E 0 4.4 ¶17198801
ISCJB III 27 14 43 04.0–.55 39.39N–.05 143.87E–.06 11 3.7b
IDC III 27 14 43 03.5–.73 39.27N 143.86E 0 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.6km az=42.8.
IDC Error ellipse: s-maj=17.9km s-min=14.7km az=144.0.
ISC III 27 14 44 31.8–.49 38.14N–.06 144.67E–.05 35 4.5b,4.1s 150 3-144
NIED III 27 14 44 00 38.10N 144.50E 11 4.5W,4.1s ¶602696850
IDC III 27 14 44 25.7–.61 37.99N 144.74E 0 4.3,4.2L
NEIC III 27 14 44 27.7–1.9 38.04N 144.68E 9–12 4.7b,4.2L
BJI III 27 14 44 27.6 38.32N 144.54E 8 5.0b,4.5b
ISCJB III 27 14 44 29.7–.24 38.06N–.04 144.53E–.03 33 4.5b,3.9s
JMA III 27 14 44 30.2–.30 38.12N 144.47E 47 4.6,3.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ41.00000°,λ-97.00000°. NP2:ϕ_s199.00000°,δ50.00000°,λ-84.00000°. M_o5.56000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=12.7km az=147.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.9km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.9km az=172.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 27 14 45 53.9–.44 37.14N–.05 143.96E–.06 35 4.6b,3.7s 107 2-153
IDC III 27 14 45 48.4–.48 37.09N 144.04E 0 4.6,4.5 ¶16459616
NEIC III 27 14 45 49.5–2.9 37.11N 144.05E 7–18 4.8b,4.5
ISCJB III 27 14 45 52.1–.32 37.12N–.05 143.87E–.04 33 4.5b,3.6s
JMA III 27 14 45 52.8–.20 37.33N 143.84E 44 4.5,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=11.7km az=135.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.6km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.0km az=170.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 27 15 35 35.8–3.2 37.15N 142.93E 0 3.4,3.3b
¶17198807
IDC Error ellipse: s-maj=78.2km s-min=37.7km az=56.0.
IDC III 27 15 56 20.6–1.5 36.96N 144.21E 0 3.6,3.3
¶17198808
IDC Error ellipse: s-maj=48.9km s-min=30.7km az=121.0.
ISC III 27 16 20 37.1–.71 37.66N–.06 144.03E–.06 35 4.0b 56 2-76
IDC III 27 16 20 30.8–.72 37.39N 144.20E 0 4.0,3.9 ¶602696595
JMA III 27 16 20 34.5–.20 37.67N 143.96E 33 4.4,3.9
ISCJB III 27 16 20 35.4–.50 37.68N–.04 143.96E–.04 33 3.9b,3.2s
NEIC III 27 16 20 36.1–.50 37.47N 144.12E 35 4.4b,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=14.0km az=130.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=162.5.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.2km az=138.0.
ISC III 27 16 26 28.5–1.5 37.76N–.06 143.2E–.10 24 3.4b 19 2-58
NIED III 27 16 26 00 37.90N 143.20E 11 3.5W ¶17198812
IDC III 27 16 26 23.7–2.5 37.76N 143.63E 0 3.6,3.6
ISCJB III 27 16 26 27.0–1.2 37.78N–.07 143.2E–.10 24 3.4b,3.6
JMA III 27 16 26 27.9–.20 37.86N 143.17E 26 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ78.00000°,λ-179.00000°. NP2:ϕ_s254.00000°,δ89.00000°,λ-12.00000°. M_o2.31000×10^{14}
IDC Error ellipse: s-maj=57.6km s-min=26.1km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=8.4km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 16 47 59.5–1.1 39.22N–.09 143.5E–.10 37–3 3.5b 33 1-82
NIED III 27 16 47 00 39.20N 143.50E 14 3.6W ¶17198814
IDC III 27 16 47 50.8–1.0 38.67N 143.58E 0 3.9,3.6
JMA III 27 16 47 57.6–.20 39.19N 143.46E 39 3.7,3.6
ISCJB III 27 16 47 58.3–1.2 39.24N–.06 143.47E–.07 41–10 3.6s,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ45.00000°,λ-100.00000°. NP2:ϕ_s38.00000°,δ46.00000°,λ-80.00000°. M_o2.94000×10^{14}
ISCJB Event type ke.
ISC III 27 16 54 20.6–.49 37.20N–.05 143.64E–.06 35 4.3b,3.4s 98 2-91
IDC III 27 16 54 15.0–.55 37.09N 143.82E 0 4.3,4.2 ¶16362974
NEIC III 27 16 54 16.3–3.0 37.16N 143.80E 8–18 4.5b,4.2
ISCJB III 27 16 54 18.6–.30 37.16N–.03 143.59E–.03 33 4.2b,3.5s
JMA III 27 16 54 19.6–.30 37.25N 143.53E 51 4.4,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=12.9km az=116.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.7km az=156.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 17 21 13.5–.74 38.50N–.09 144.77E–.07 29 3.6b 25 3-87
NIED III 27 17 21 00 38.50N 144.70E 11 3.8W ¶17198816
IDC III 27 17 21 09.2–.74 38.37N 145.11E 0 3.9,3.7
ISCJB III 27 17 21 11.6–.56 38.43N–.08 144.77E–.05 29 3.5b,3.7
JMA III 27 17 21 13.0–.30 38.53N 144.67E 41 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ25.00000°,λ-88.00000°. NP2:ϕ_s186.00000°,δ65.00000°,λ-91.00000°. M_o5.20000×10^{14}
IDC Error ellipse: s-maj=22.8km s-min=15.7km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.9km az=159.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 27 17 44 11.3–1.7 36.33N–.06 142.6E–.10 15 22 2-56
IDC III 27 17 44 08.7–6.1 36.33N 142.81E 0 3.7,3.6 ¶17198819
ISCJB III 27 17 44 11.7–1.2 36.39N–.05 142.51E–.10 15 3.4b,3.4s
JMA III 27 17 44 12.7–.30 36.38N 142.60E 48 3.4,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=103.3km s-min=43.2km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.4km az=18.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 27 17 47 55.0–2.7 37.69N–.07 142.2E–.10 6–15 3.6b 16 1-62
IDC III 27 17 47 52.8–2.9 38.52N 143.18E 0 3.8,3.7b ¶600569094
JMA III 27 17 47 55.1–.20 37.69N 142.28E 22–3 3.3,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=72.4km s-min=31.5km az=56.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 17 54 19.6–1.1 36.63N–.04 142.32E–.06 20–5 4.2b,2.9s 66 1-146
IDC III 27 17 54 16.6–.67 36.58N 142.34E 0 4.1,4.0 ¶16481238
JMA III 27 17 54 18.2–.20 36.66N 142.37E 24 4.2,4.0
ISCJB III 27 17 54 18.7–1.5 36.62N–.03 142.36E–.05 26–11 4.0b,3.0s
NEIC III 27 17 54 21.5–.49 36.60N 142.31E 35 4.5b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=15.0km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=179.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.9km az=132.0.
IDC III 27 17 56 47.6–2.4 37.68N 142.15E 0 3.6,3.5b
¶17198822
IDC Error ellipse: s-maj=65.5km s-min=25.9km az=59.0.
IDC III 27 18 09 05.0–1.4 37.24N 142.03E 0 3.8,3.6
¶602697186
IDC Error ellipse: s-maj=36.8km s-min=23.0km az=120.0.
IDC III 27 18 14 28.2–3.0 36.71N 142.46E 0 3.7,3.6b
¶17198825
IDC Error ellipse: s-maj=76.8km s-min=30.7km az=59.0.
ISC III 27 18 21 20.3–.80 36.65N–.05 142.30E–.07 15 3.8b 29 1-83
IDC III 27 18 21 18.4–.89 36.66N 142.33E 0 3.9L,3.8 ¶16481244
ISCJB III 27 18 21 18.6–.61 36.59N–.04 142.40E–.06 15 3.7b,2.5s
JMA III 27 18 21 19.9–.30 36.65N 142.42E 33 4.1,2.5s
NEIC III 27 18 21 23.5–.71 36.61N 142.27E 35 4.0b,2.5s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=18.9km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=6.0km az=172.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=12.2km az=138.0.
ISC III 27 18 37 10.6–.84 39.58N–.06 143.54E–.07 11 3.7b 27 1-67
JMA III 27 18 37 08.4–.30 39.62N 143.73E 22 4.1 ¶17198827
IDC III 27 18 37 08.8–1.0 39.58N 143.56E 0 3.8,3.7
ISCJB III 27 18 37 08.5–.62 39.56N–.06 143.67E–.06 11 3.6b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 18 39 46.0–.71 36.77N–.06 144.48E–.07 26 3.7b 29 3-145
NIED III 27 18 39 00 36.90N 144.50E 5 4.1W ¶17198828
IDC III 27 18 39 41.7–.77 36.65N 144.69E 0 3.9,3.8
JMA III 27 18 39 44.7–.50 36.88N 144.46E 53 3.9,3.8
ISCJB III 27 18 39 44.2–.56 36.74N–.05 144.42E–.05 26 3.6b,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ18.00000°,λ-96.00000°. NP2:ϕ_s178.00000°,δ72.00000°,λ-88.00000°. M_o1.44000×10^{15}
ISCJB Event type ke.
ISC III 27 18 51 15.0–1.1 38.18N–.07 144.62E–.08 35 3.6b 20 3-75
IDC III 27 18 51 09.6–1.3 37.94N 144.83E 0 3.8,3.6 ¶17198829
ISCJB III 27 18 51 13.3–.84 38.10N–.07 144.55E–.06 33 3.6b,3.6
JMA III 27 18 51 13.0–.20 38.14N 144.34E 9 4.0,3.6

ISC Event type ke.
IDC Error ellipse: s-maj=36.5km s-min=24.0km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.7km az=168.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 27 19 05 44.7–1.2 40.1N–.10 144.6E–.20 10 3.8b 13 6-73
ISCJB III 27 19 05 43.0–.97 40.03N–.10 144.5E–.20 10 3.8b **¶17198832**
IDC III 27 19 05 43.1–1.1 40.04N 144.60E 0 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=14.1km az=0.7.
IDC Error ellipse: s-maj=32.9km s-min=18.7km az=83.0.
ISC III 27 19 09 53.2–1.6 36.28N–.07 142.6E–.10 18 3.6b 17 2-56
IDC III 27 19 09 49.9–2.4 36.30N 142.87E 0 3.6,3.5 **¶17198833**
ISCJB III 27 19 09 53.0–1.2 36.36N–.07 142.56E–.10 18 3.5b,3.5
JMA III 27 19 09 54.8–.20 36.39N 142.57E 48 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=57.3km s-min=27.4km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=9.4km az=165.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 19 14 07.9–2.2 35.9N–.20 142.7E–.20 18 6 1-56
IDC III 27 19 14 04.7–3.1 35.90N 142.79E 0 3.6,3.5 **¶600569158**
JMA III 27 19 14 28.0–.30 35.98N 141.10E 20 2.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=63.5km s-min=33.9km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 27 19 14 24.3–.67 37.56N–.06 143.43E–.08 35 4.1b,3.8s 41 2-95
NIED III 27 19 14 00 37.60N 143.40E 11 4.1W,3.8s **¶17198834**
IDC III 27 19 14 19.1–.71 37.48N 143.70E 0 4.1,4.0
JMA III 27 19 14 22.5–.30 37.64N 143.38E 47 4.2,4.0
ISCJB III 27 19 14 22.2–.49 37.60N–.05 143.42E–.05 33 4.0b,3.7s
NEIC III 27 19 14 24.3–.81 37.50N 143.52E 35 4.4b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ32.00000°,λ-130.00000°. NP2:ϕ_s200.00000°,δ66.00000°,λ-68.00000°. $M_0$1.79000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.2km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=6.1km az=23.4.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=12.4km az=126.0.
IDC III 27 19 21 19.2–1.5 36.45N 142.75E 0 3.6,3.3
¶17198837
IDC Error ellipse: s-maj=35.8km s-min=32.3km az=103.0.
ISC III 27 19 27 08.2–2.3 37.07N–.09 142.39E–.09 17–14 3.4b 19 1-57
NIED III 27 19 27 00 37.30N 142.40E 8 3.5W **¶602696468**
IDC III 27 19 27 05.8–1.4 37.04N 142.41E 0 3.5,3.3
JMA III 27 19 27 08.6–.10 37.29N 142.43E 11–3 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ46.00000°,λ-71.00000°. NP2:ϕ_s166.00000°,δ47.00000°,λ-109.00000°. $M_0$2.31000×10^{14}
IDC Error ellipse: s-maj=32.3km s-min=29.6km az=79.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 20 10 01.6–1.9 38.4N–.10 143.8E–.10 14 3.4b,3.1s 14 2-59
IDC III 27 20 09 56.4–1.7 38.14N 144.19E 0 3.5,3.3 **¶17198841**
ISCJB III 27 20 10 00.1–1.3 38.41N–.10 143.82E–.09 14 3.2b,3.1s
JMA III 27 20 10 01.0–.20 38.41N 143.84E 26 3.5,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=40.1km s-min=28.0km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=9.4km az=158.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 20 12 24.0–1.1 37.73N–.08 143.74E–.09 35 3.6b 16 2-76
IDC III 27 20 12 18.6–1.2 37.56N 144.00E 0 3.9,3.6b **¶17198842**
JMA III 27 20 12 22.5–.30 37.73N 143.65E 30 3.5,3.6b
ISCJB III 27 20 12 22.2–.90 37.72N–.07 143.75E–.08 33 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 20 32 16.6–1.4 36.27N–.06 142.6E–.10 15 3.6b 22 2-56
IDC III 27 20 32 15.7–2.1 36.18N 142.49E 0 3.6,3.6 **¶17198844**
ISCJB III 27 20 32 15.8–1.1 36.28N–.07 142.7E–.10 15 3.5b,3.6
JMA III 27 20 32 18.3–.20 36.37N 142.61E 48 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=22.3km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=9.5km az=178.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 27 20 42 16.8–2.0 39.5N–.10 143.5E–.10 11 3.3b 18 1-47
NIED III 27 20 42 00 39.30N 143.50E 5 3.7W **¶602696329**
JMA III 27 20 42 15.2–.30 39.30N 143.50E 3–4 3.9
IDC III 27 20 42 23.0–2.5 39.75N 142.41E 0 3.5,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ18.00000°,λ7.00000°. NP2:ϕ_s161.00000°,δ88.00000°,λ108.00000°. $M_0$3.70000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=58.2km s-min=30.1km az=148.0.
ISC III 27 20 51 23.3–.81 36.7N–.10 142.22E–.07 19 4.1b 22 1-146
IDC III 27 20 51 20.9–1.1 36.80N 142.25E 0 4.3,4.1 **¶17198849**
ISCJB III 27 20 51 21.8–.72 36.7N–.10 142.26E–.07 19 4.0b,4.1
JMA III 27 20 51 22.8–.40 36.74N 142.29E 52 4.0,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=29.0km s-min=17.3km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=6.3km az=161.1.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC III 27 21 08 45.0–2.5 36.60N 143.61E 0 3.6,3.5
¶17198852
IDC Error ellipse: s-maj=57.1km s-min=29.5km az=73.0.
JMA III 27 22 01 16.6–.30 38.41N 143.83E 18 3.6
¶602696219
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 27 23 15 24.9–1.1 37.31N–.06 143.42E–.09 35 3.6b 27 2-61
IDC III 27 23 15 19.3–1.1 37.13N 143.89E 0 3.7,3.6 **¶17198867**
JMA III 27 23 15 22.4–.30 37.41N 143.18E 3 3.8,3.6
ISCJB III 27 23 15 22.7–.76 37.26N–.05 143.41E–.06 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 23 16 45.7–.61 37.24N–.06 143.96E–.07 35 3.9b 52 2-88
IDC III 27 23 16 40.1–.65 37.09N 144.18E 0 4.9s,4.9 **¶600569341**
JMA III 27 23 16 43.1–.40 37.29N 143.93E 60 4.1,4.9
ISCJB III 27 23 16 44.1–.46 37.25N–.05 143.88E–.04 33 4.8s,4.0b
NEIC III 27 23 16 45.5–.41 37.13N 144.06E 35 4.2b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=14.3km az=140.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=167.7.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.1km az=153.0.
ISC III 27 23 23 09.8–.72 38.58N–.05 144.25E–.07 14 3.8b 41 2-118
IDC III 27 23 23 07.3–.75 38.41N 144.33E 0 4.6s,4.6 **¶16481287**
ISCJB III 27 23 23 08.7–.56 38.59N–.04 144.15E–.04 14 4.6s,3.7b
JMA III 27 23 23 10.1–.40 38.56N 144.19E 41 4.4,3.7b
NEIC III 27 23 23 10.9–3.4 38.48N 144.35E 23–23 4.1b,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=19.2km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.6km az=157.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.1km az=118.0.
ISC III 27 23 40 10.0–1.0 37.65N–.08 142.57E–.09 21 3.8b 26 1-58
JMA III 27 23 40 06.4–.30 37.55N 142.72E 21 4.0 **¶16481288**
IDC III 27 23 40 06.7–1.6 37.59N 142.57E 0 3.8,3.8b
ISCJB III 27 23 40 07.6–.80 37.59N–.06 142.66E–.09 21 3.9b,3.8b
NEIC III 27 23 40 11.8–.77 37.59N 142.53E 35 4.1b,3.8b
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=35.8km s-min=25.3km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=9.2km az=176.6.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=9.9km az=136.0.
ISC III 27 23 51 29.9–.85 37.11N–.07 144.16E–.08 35 3.8b 31 3-88
IDC III 27 23 51 24.1–.88 36.95N 144.40E 0 3.8,3.7 **¶600569377**
JMA III 27 23 51 27.9–.40 37.16N 144.02E 26 3.8,3.7
ISCJB III 27 23 51 27.7–.62 37.07N–.06 144.12E–.05 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 00 01 31.6–.70 39.06N–.05 144.26E–.07 23 3.6b 41 2-145
IDC III 28 00 01 27.8–.84 38.89N 144.38E 0 4.0,3.8 **¶17198870**
ISCJB III 28 00 01 30.2–.57 39.07N–.04 144.16E–.05 23 3.6b,3.8
JMA III 28 00 01 33.0–.30 39.00N 144.02E 74 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.7km s-min=18.1km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=136.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 28 01 01 14.7–.72 37.78N–.07 142.01E–.06 30 3.8b 29 1-146
JMA III 28 01 01 13.9–.20 37.75N 142.06E 31–3 4.3 **¶17198876**
ISCJB III 28 01 01 13.1–.57 37.75N–.06 142.17E–.05 30 3.9b
IDC III 28 01 01 18.6–2.9 37.70N 142.03E 66–27 3.9,3.9
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.1km az=170.4.
IDC Error ellipse: s-maj=22.0km s-min=17.8km az=99.0.
IDC III 28 01 18 22.7–2.8 36.94N 145.03E 0 4.0,4.0s
¶17198879
IDC Error ellipse: s-maj=76.0km s-min=32.1km az=62.0.
ISC III 28 02 21 10.3–3.0 37.04N–.10 142.6E–.20 10 3.2b 13 2-49
JMA III 28 02 21 09.5–.40 36.95N 142.66E 37 3.2 **¶17198888**
IDC III 28 02 21 20.4–2.7 38.19N 141.23E 0 3.4,3.3b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=63.0km s-min=30.6km az=146.0.
ISC III 28 02 21 49.4–.78 38.21N–.07 144.61E–.07 35 3.8b 32 3-87
IDC III 28 02 21 43.6–.99 38.00N 144.82E 0 4.0,3.9 **¶17198889**
JMA III 28 02 21 47.3–.30 38.25N 144.58E 42 4.3,3.9
ISCJB III 28 02 21 48.0–.59 38.22N–.05 144.52E–.05 33 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
JMA III 28 03 39 41.9–.20 39.26N 143.07E 0 3.5
¶602699765
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 03 42 19.1–2.1 38.2N–.20 143.2E–.10 19 3.5b 12 1-62
JMA III 28 03 42 11.0–.30 38.36N 143.66E 17 3.5 **¶602699764**
IDC III 28 03 42 25.1–2.5 40.48N 143.57E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=72.1km s-min=23.4km az=64.0.
JMA III 28 04 08 34.9–.30 37.64N 143.47E 23 3.5
¶602699721
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 28 05 16 21.7–.60 37.34N 142.33E 24 3.6
¶602699661
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC III 28 06 13 37.4–.63 38.23N–.04 144.71E–.04 17–3 5.0b,4.3s 873 3-153
ISCJB III 28 06 13 33.0–.95 38.10N–.03 144.74E–.02 3–5 4.9b,4.2s **¶16364046**
IDC III 28 06 13 34.0–.44 38.11N 144.80E 0 4.6,4.6
GCMT III 28 06 13 36.2–.30 38.25N 144.70E 12 4.9W,4.6
NEIC III 28 06 13 36.2–.13 38.11N 144.72E 10 5.1b,4.6
MOS III 28 06 13 36.9–.86 38.49N 144.70E 13 5.2b,4.6
JMA III 28 06 13 37.4–.30 38.20N 144.55E 35 4.7,4.6
BJI III 28 06 13 40.8 38.46N 144.19E 25 5.1b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=2.7km az=171.0.
IDC Error ellipse: s-maj=13.3km s-min=10.8km az=105.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c31; s101,c143; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.03±.07 $M_{\theta\theta}$0.61±.07; $M_{\phi\phi}$2.42±.06; $M_{r\theta}$0.41±.36; $M_{\theta\phi}$0.14±.06; $M_{\phi r}$0.96±.30; Best double couple: NP1:ϕ_s190.00000°,δ55.00000°,λ-85.00000°. NP2:ϕ_s0.00000°,δ35.00000°,λ-98.00000°. Principal axes: T 2.6070,Plg10.0000°,Azm276.0000°; N 0.6250,Plg4.0000°,Azm7.0000°; P -3.2330,Plg79.0000°,Azm121.0000° $M_0$2.92000×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=160.0.
MOS Error ellipse: s-maj=8.5km s-min=4.8km az=103.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 28 07 40 06.1–1.3 38.20N–.06 144.64E–.09 35 3.5b 29 3-59
IDC III 28 07 40 00.8–1.9 37.88N 145.02E 0 3.7,3.7L **¶17198917**
JMA III 28 07 40 05.5–.20 38.24N 144.54E 43 3.7,3.7L
ISCJB III 28 07 40 06.4–.99 38.28N–.05 144.49E–.07 33 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
IDC III 28 07 53 29.9–2.8 37.45N 144.75E 0 3.7,3.6b
¶17198919
IDC Error ellipse: s-maj=73.7km s-min=32.3km az=58.0.
IDC III 28 08 24 31.0–1.4 36.94N 144.55E 0 3.6,3.5b
¶17198924
IDC Error ellipse: s-maj=39.8km s-min=26.8km az=116.0.
JMA III 28 08 51 41.2–.30 37.53N 143.43E 24 3.8
NIED III 28 08 51 00 37.50N 143.40E 5 3.6W **¶602699275**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ35.00000°,λ-166.00000°. NP2:ϕ_s225.00000°,δ82.00000°,λ-56.00000°. $M_0$2.52000×10^{14}
IDC III 28 09 21 07.0–1.9 37.73N 144.27E 0 3.7,3.6
¶17198928
IDC Error ellipse: s-maj=47.1km s-min=26.0km az=60.0.
ISC III 28 09 30 22.0–.93 38.1N–.20 144.8E–.10 26 3.6b 12 5-87
IDC III 28 09 30 18.1–1.1 38.04N 144.92E 0 3.9,3.9L **¶17198929**
ISCJB III 28 09 30 20.1–.80 38.0N–.20 144.8E–.10 26 3.6b,3.9L
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 09 44 02.6–.73 36.76N–.05 143.45E–.07 35 3.6b 30 2-89
IDC III 28 09 43 57.4–.78 36.60N 143.65E 0 3.8,3.8L **¶17198932**
JMA III 28 09 44 00.6–.30 36.86N 143.44E 46 3.8,3.8L
NIED III 28 09 44 00 36.90N 143.40E 5 3.8W,3.8L
ISCJB III 28 09 44 00.6–.56 36.78N–.06 143.43E–.05 33 3.6b,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ18.00000°,λ-94.00000°. NP2:ϕ_s214.00000°,δ72.00000°,λ-89.00000°. $M_0$4.97000×10^{14}
ISCJB Event type ke.
ISC III 28 10 17 19.2–1.1 38.41N–.06 144.70E–.08 29 3.7b 33 3-61
NIED III 28 10 17 00 38.40N 144.50E 5 3.6W **¶17198934**
IDC III 28 10 17 14.3–1.4 38.17N 144.99E 0 3.6,3.5
JMA III 28 10 17 19.2–.20 38.38N 144.46E 20 3.8,3.5
ISCJB III 28 10 17 19.5–.92 38.49N–.05 144.56E–.06 29 3.5b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s103.00000°,δ39.00000°,λ-84.00000°. NP2:ϕ_s275.00000°,δ51.00000°,λ-94.00000°. $M_0$2.69000×10^{14}
ISCJB Event type ke.
ISC III 28 10 25 28.2–.64 36.60N–.07 143.35E–.09 35 3.8b,3.0s 31 2-89
IDC III 28 10 25 23.8–.65 36.79N 143.53E 0 3.9,3.8 **¶17198935**
ISCJB III 28 10 25 26.4–.49 36.67N–.06 143.27E–.07 33 3.7b,2.9s
JMA III 28 10 25 40.8–.20 36.29N 141.87E 69 3.3,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=18.5km s-min=15.0km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=6.4km az=140.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 28 10 40 54.1–3.3 35.72N–.07 143.39E–.06 32–22 4.5b,3.1s 119 2-153
IDC III 28 10 40 48.7–.44 35.62N 143.53E 0 4.4,4.3 **¶16373269**
NEIC III 28 10 40 50.5–.16 35.57N 143.47E 10 4.6b,4.3
ISCJB III 28 10 40 50.1–1.3 35.69N–.04 143.35E–.03 15–7 4.4b,3.1s
JMA III 28 10 40 52.7–.20 35.84N 143.28E 67 4.6,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=11.5km az=109.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.1km az=159.0.

ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.2km az=165.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 28 11 18 43.9–.37 38.84N–.03 143.06E–.03 20–2 5.3b,4.8s 1142 1-162
NIED III 28 11 18 00 38.80N 143.00E 11 5.2W,4.8s ¶16373270
ISCJB III 28 11 18 41.8–.72 38.80N–.02 142.96E–.02 14–4 5.2b,4.8s
JMA III 28 11 18 43.1–.30 38.84N 142.97E 18–3 5.3,4.8s
BJI III 28 11 18 43.7 38.80N 142.67E 23 5.2b,5.2s
MOS III 28 11 18 44.0–1.3 38.86N 142.90E 33 5.4b,4.7s
IDC III 28 11 18 45.8–3.6 38.79N 143.00E 32–27 4.7s,4.7
NEIC III 28 11 18 46.4–1.0 38.80N 142.90E 34–7 5.3b,4.8s
GCMT III 28 11 18 46.3–.10 38.84N 142.89E 15–0 5.2W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s162.00000°,δ27.00000°,λ-63.00000°. NP2:ϕ_s312.00000°,δ66.00000°,λ-103.00000°. $M_0$7.45000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.0km az=163.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=14.6km s-min=9.8km az=82.9.
IDC Error ellipse: s-maj=11.3km s-min=8.0km az=99.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.3km az=133.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c122; s120,c200; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.57±.02 $M_{\theta\theta}$0.19±.01; $M_{\phi\phi}$0.38±.01; $M_{r\theta}$0.62±.04; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$-0.19±.04; Best double couple: NP1:ϕ_s299.00000°,δ70.00000°,λ-108.00000°. NP2:ϕ_s163.00000°,δ27.00000°,λ-50.00000°. Principal axes: T 0.8130,Plg23.0000°,Azm43.0000°; N 0.1110,Plg17.0000°,Azm305.0000°; P -0.9230,Plg61.0000°,Azm182.0000° $M_0$0.86800×10^{17}
ISC III 28 11 34 12.9–1.9 37.99N–.05 142.06E–.07 23–13 4.2b 56 1-146
NIED III 28 11 34 00 38.00N 142.00E 38 4.1W ¶16475507
IDC III 28 11 34 09.1–.58 37.97N 142.16E 0 4.4,4.2
ISCJB III 28 11 34 13.5–.90 38.01N–.04 142.08E–.07 41–7 4.2b,4.2
JMA III 28 11 34 14.2–.10 38.02N 141.99E 41–1 4.4,4.2
NEIC III 28 11 34 16.6–.96 37.96N 142.09E 57–9 4.5b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s77.00000°,δ8.00000°,λ-31.00000°. NP2:ϕ_s197.00000°,δ86.00000°,λ-97.00000°. $M_0$1.87000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=13.7km az=103.0.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.4km az=7.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=8.1km az=88.0.
ISC III 28 11 54 09.8–.88 37.96N–.07 144.17E–.07 35 3.7b 29 2-75
IDC III 28 11 54 04.7–1.1 37.80N 144.40E 0 4.0,3.9L ¶17198942
ISCJB III 28 11 54 08.0–.61 37.95N–.05 144.16E–.04 33 3.6b,3.9L
JMA III 28 11 54 08.6–.30 37.93N 144.12E 44 3.8,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=42.7km s-min=21.5km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=177.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC III 28 12 07 48.8–2.9 37.89N 143.76E 0 3.5,3.5b
¶17198944
IDC Error ellipse: s-maj=72.8km s-min=36.5km az=65.0.
IDC III 28 12 12 45.7–1.6 37.07N 144.04E 0 3.7,3.7L
¶17198945
IDC Error ellipse: s-maj=40.3km s-min=29.5km az=123.0.
ISC III 28 13 00 04.8–2.4 40.1N–.10 144.2E–.10 10 17 2-55
NIED III 28 13 00 00 40.10N 144.10E 5 3.6W ¶17198952
JMA III 28 13 00 04.7–.20 40.13N 144.11E 11 3.8
IDC III 28 13 00 11.6–3.0 38.53N 141.07E 0 3.6b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ33.00000°,λ-88.00000°. NP2:ϕ_s153.00000°,δ58.00000°,λ-92.00000°. $M_0$2.80000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=70.5km s-min=32.9km az=76.0.
IDC III 28 13 03 06.7–3.5 36.76N 143.66E 0 3.5,3.4L
¶17198953
IDC Error ellipse: s-maj=83.8km s-min=40.4km az=54.0.
ISC III 28 13 17 41.7–1.1 38.08N–.08 143.9E–.10 35 4.2b 15 4-62
IDC III 28 13 17 38.5–1.8 38.16N 143.84E 0 3.9,3.9 ¶16475420
NEIC III 28 13 17 43.4–1.1 38.18N 143.72E 35 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=49.0km s-min=21.6km az=76.0.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=12.7km az=89.0.
ISC III 28 13 21 45.4–.83 36.80N–.06 143.79E–.08 35 3.7b 25 2-89
IDC III 28 13 21 40.1–.83 36.66N 144.08E 0 3.8,3.7b ¶17198954
JMA III 28 13 21 43.9–.40 36.84N 143.79E 54 3.9,3.7b
ISCJB III 28 13 21 43.6–.63 36.75N–.06 143.77E–.05 33 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 13 23 02.9–.45 38.60N–.06 144.78E–.05 29 4.6b,4.1s 198 3-149
BJI III 28 13 22 56.4 38.50N 144.80E 11 4.9b,4.5b ¶16392122
IDC III 28 13 22 58.0–.57 38.51N 144.93E 0 4.5,4.4
NEIC III 28 13 23 00.3–1.8 38.55N 144.81E 13–11 4.7b,4.4
JMA III 28 13 23 01.0–.30 38.60N 144.69E 39 4.5,4.4
ISCJB III 28 13 23 01.1–.21 38.58N–.03 144.70E–.02 29 4.5b,3.9s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 28 13 27 30.5–1.5 38.72N–.04 143.01E–.05 6–8 4.5b,4.2s 140 1-145
NIED III 28 13 27 00 38.70N 143.00E 11 4.3W,4.2s ¶16374432
BJI III 28 13 27 25.1 38.73N 143.59E 10 4.7b,4.6b
IDC III 28 13 27 29.7–.55 38.72N 143.06E 0 4.4,4.3
JMA III 28 13 27 30.9–.20 38.73N 142.98E 5–2 4.5,4.3
ISCJB III 28 13 27 30.1–1.2 38.71N–.03 143.10E–.04 14–7 4.4b,4.1s
MOS III 28 13 27 33.6–.92 38.94N 143.00E 33 4.8b,4.1s
NEIC III 28 13 27 33.6–1.6 38.71N 143.07E 26–12 4.7b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ38.00000°,λ-65.00000°. NP2:ϕ_s68.00000°,δ56.00000°,λ-108.00000°. $M_0$3.43000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=12.0km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.4km az=151.0.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=98.1.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=103.0.
IDC III 28 13 36 57.2–1.8 38.98N 143.62E 0 3.5,3.4b
¶17198957
IDC Error ellipse: s-maj=46.7km s-min=28.9km az=102.0.
JMA III 28 13 43 08.0–.40 36.84N 143.77E 43 3.7
¶602698845
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 28 15 30 27.1–1.2 38.64N–.07 144.74E–.09 29 3.4b 25 3-63
IDC III 28 15 30 23.2–1.3 38.43N 144.79E 0 3.6,3.4 ¶17198966
ISCJB III 28 15 30 25.6–.87 38.64N–.05 144.71E–.07 29 3.4b,3.4
JMA III 28 15 30 27.2–.50 38.63N 144.64E 43 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=27.8km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.5km az=28.5.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 28 16 01 57.3–.20 38.22N 143.79E 0 3.5
¶602698725
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 28 16 04 32.5–.20 38.23N 143.73E 4 3.8
NIED III 28 16 04 00 38.20N 143.70E 38 3.6W ¶600570263
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ51.00000°,λ149.00000°. NP2:ϕ_s65.00000°,δ67.00000°,λ43.00000°. $M_0$2.72000×10^{14}
JMA III 28 16 10 37.7–.10 39.47N 143.77E 0 3.5
¶602698712
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 28 16 19 34.0–.20 37.52N 142.67E 1 3.6
¶602698693
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 28 17 13 03.3–1.9 37.41N–.08 143.0E–.10 24 3.5b 11 2-61
IDC III 28 17 13 02.2–3.1 37.02N 143.45E 0 3.7,3.5 ¶17198976
JMA III 28 17 13 03.8–.50 37.52N 143.23E 32 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=78.4km s-min=32.9km az=53.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 28 17 39 17.7–.52 38.16N–.05 144.62E–.06 35 4.2b,3.6s 100 3-144
NIED III 28 17 39 00 38.30N 144.40E 8 4.1W,3.6s ¶16374438
IDC III 28 17 39 11.7–.61 38.00N 144.80E 0 4.1,4.1
NEIC III 28 17 39 14.1–2.5 37.98N 144.75E 14–15 4.5b,4.1
BJI III 28 17 39 16.5 38.18N 144.66E 38 4.9b,4.5s
ISCJB III 28 17 39 16.1–.32 38.14N–.04 144.55E–.03 33 4.2b,3.7s
JMA III 28 17 39 17.5–.20 38.26N 144.43E 31 4.5,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ24.00000°,λ-92.00000°. NP2:ϕ_s206.00000°,δ66.00000°,λ-89.00000°. $M_0$1.78000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=13.9km az=133.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.4km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.5km az=168.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 28 17 53 41.7–.57 38.30N–.05 143.95E–.06 14 4.2b,3.6s 96 2-144
NIED III 28 17 53 00 38.40N 143.90E 5 4.2W,3.6s ¶16374439
IDC III 28 17 53 38.8–.60 38.15N 144.11E 0 4.0,3.9
NEIC III 28 17 53 40.0–2.7 38.16N 144.11E 9–17 4.5b,3.9
ISCJB III 28 17 53 39.4–.37 38.20N–.04 143.99E–.04 14 4.1b,3.7s
JMA III 28 17 53 42.9–.20 38.37N 143.87E 42 4.4,3.7s
BJI III 28 17 53 42.6 38.41N 144.02E 35 4.9b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ26.00000°,λ-149.00000°. NP2:ϕ_s243.00000°,δ77.00000°,λ-68.00000°. $M_0$2.27000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=12.6km az=115.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.2km az=143.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 28 17 55 42.1–.64 36.90N–.05 143.25E–.07 25 3.8b 34 2-89
NIED III 28 17 55 00 37.10N 143.10E 5 4.0W ¶17198980
IDC III 28 17 55 38.3–.61 36.81N 143.41E 0 4.1,3.9
ISCJB III 28 17 55 40.6–.51 36.94N–.05 143.23E–.05 25 3.8b,3.9
JMA III 28 17 55 41.5–.30 37.09N 143.08E 9 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ21.00000°,λ-125.00000°. NP2:ϕ_s215.00000°,δ73.00000°,λ-78.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=14.0km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.9km az=21.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 28 18 02 14.1–.70 38.75N–.05 144.29E–.07 19 4.2b 70 2-74
NIED III 28 18 02 00 38.80N 144.20E 8 4.2W ¶602698497
IDC III 28 18 02 11.0–.78 38.59N 144.35E 0 4.1,4.0
ISCJB III 28 18 02 12.3–.44 38.73N–.03 144.21E–.04 19 4.0b,3.2s
JMA III 28 18 02 14.4–.20 38.80N 144.22E 46 4.7,3.2s
NEIC III 28 18 02 16.6–.58 38.73N 144.25E 35 4.4b,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ41.00000°,λ-157.00000°. NP2:ϕ_s212.00000°,δ75.00000°,λ-51.00000°. $M_0$2.13000×10^{15}
IDC Error ellipse: s-maj=20.6km s-min=14.3km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=40.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.7km az=119.0.
ISC III 28 18 10 26.5–1.8 38.41N–.06 144.6E–.10 29 3.5b 24 3-59
ISCJB III 28 18 10 26.0–1.1 38.48N–.06 144.54E–.08 29 3.3b ¶17198981
JMA III 28 18 10 27.7–.20 38.47N 144.45E 36 4.1
IDC III 28 18 10 29.5–2.6 37.28N 144.55E 0 4.0L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.3km az=39.6.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=68.9km s-min=30.1km az=66.0.
ISC III 28 18 31 18.9–3.8 36.90N–.04 143.01E–.06 28–27 3.7b 42 2-89
NIED III 28 18 31 00 36.90N 143.00E 8 3.8W ¶17198982
IDC III 28 18 31 14.1–.67 36.72N 143.22E 0 4.0,3.8
JMA III 28 18 31 18.1–.30 36.88N 143.01E 49 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ44.00000°,λ-84.00000°. NP2:ϕ_s40.00000°,δ47.00000°,λ-96.00000°. $M_0$6.10000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=14.4km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 28 18 33 05.1–1.8 36.4N–.10 143.6E–.20 35 3.5b 7 5-60
IDC III 28 18 32 57.9–1.2 36.55N 144.30E 0 3.7,3.5 ¶17198983
ISCJB III 28 18 33 02.6–1.3 36.35N–.09 143.6E–.20 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 18 39 60.0–4.1 36.82N–.04 143.22E–.06 28–28 4.2b,3.4s 105 2-153
IDC III 28 18 39 55.5–.50 36.76N 143.33E 0 4.3,4.2 ¶602698400
JMA III 28 18 39 59.2–.20 36.86N 143.16E 48 4.3,4.2
NEIC III 28 18 39 59.3–2.3 36.75N 143.28E 25–16 4.5b,4.2
ISCJB III 28 18 39 59.1–1.4 36.79N–.03 143.15E–.04 33–10 4.2b,3.4s
ISC Event type ke.
NEIC Event type se.
ISCJB Event type ke.
JMA III 28 19 01 00.2–.20 38.48N 143.05E 7–3 3.5
NIED III 28 19 01 00 38.50N 143.10E 20 3.4W ¶600570428
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ63.00000°,λ173.00000°. NP2:ϕ_s212.00000°,δ84.00000°,λ28.00000°. $M_0$1.50000×10^{14}
JMA III 28 19 21 41.8–.30 38.66N 143.84E 2 3.8
¶602699042
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 28 19 32 28.6–.30 38.20N 144.42E 28 3.8
NIED III 28 19 32 00 38.20N 144.40E 5 3.4W ¶600570456
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ25.00000°,λ105.00000°. NP2:ϕ_s187.00000°,δ66.00000°,λ83.00000°. $M_0$1.65000×10^{14}
IDC III 28 19 41 04.0–2.4 36.46N 144.13E 0 3.6,3.5
¶17198986
IDC Error ellipse: s-maj=54.3km s-min=30.1km az=72.0.
JMA III 28 19 53 32.3–.40 37.53N 144.42E 44 3.6
¶602698984
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
JMA III 28 20 36 16.8–.20 38.16N 144.33E 11 3.7
¶602698324
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 28 20 45 53.7–1.5 36.4N–.10 144.0E–.10 35 9 5-57
IDC III 28 20 45 47.9–2.7 36.41N 144.19E 0 3.9,3.8 ¶17198990
ISCJB III 28 20 45 51.6–1.3 36.32N–.08 143.9E–.10 33 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 20 48 30.6–2.5 38.92N–.09 144.1E–.10 44–23 3.6b,3.4s 28 2-79
NIED III 28 20 48 00 39.00N 144.10E 5 3.8W,3.4s ¶17198991
IDC III 28 20 48 23.8–.81 38.74N 144.58E 0 3.8,3.7
JMA III 28 20 48 28.0–.20 39.00N 144.14E 33 3.7,3.7
ISCJB III 28 20 48 28.3–1.4 38.95N–.07 144.18E–.10 39–13 3.7s,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ24.00000°,λ-88.00000°. NP2:ϕ_s212.00000°,δ66.00000°,λ-91.00000°. $M_0$6.16000×10^{14}
ISCJB Event type ke.
ISC III 28 21 17 14.1–.65 38.60N–.06 143.48E–.07 15 4.0b,3.4s 40 2-75
NIED III 28 21 17 00 38.70N 143.50E 8 3.9W,3.4s ¶600570579
IDC III 28 21 17 11.6–.73 38.55N 143.55E 0 3.9,3.8L
ISCJB III 28 21 17 12.2–.53 38.59N–.05 143.50E–.05 15 3.9b,3.1s
JMA III 28 21 17 13.4–.40 38.65N 143.46E 26 4.2,3.1s
NEIC III 28 21 17 16.7–.59 38.49N 143.51E 35 4.4b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ44.00000°,λ-71.00000°. NP2:ϕ_s189.00000°,δ49.00000°,λ-107.00000°. $M_0$7.61000×10^{14}

IDC Error ellipse: s-maj=20.4km s-min=15.8km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.2km az=150.2.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.8km az=136.0.
IDC III 28 21 34 14.2–2.7 38.13N 144.90E 0 3.7,3.6
¶17198994
IDC Error ellipse: s-maj=108.5km s-min=29.2km az=73.0.
ISC III 28 21 34 36.7–3.5 37.72N–.05 142.40E–.06 14–22 3.5b 36 1-146
NIED III 28 21 34 00 37.70N 142.30E 41 3.7W **¶17198995**
JMA III 28 21 34 38.9–.20 37.73N 142.31E 33–3 4.1
IDC III 28 21 34 42.2–2.9 37.58N 142.28E 60–26 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ8.00000°,λ-154.00000°. NP2:ϕ_s18.00000°,δ86.00000°,λ-82.00000°. $M_0$4.71000×10^{14}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=14.4km az=81.0.
ISC III 28 21 43 25.8–.84 37.87N–.05 143.45E–.08 19 4.0b 40 2-74
IDC III 28 21 43 22.7–1.2 37.85N 143.64E 0 4.0,3.9 **¶16475571**
ISCJB III 28 21 43 24.3–.59 37.87N–.05 143.40E–.06 19 4.0b,2.7s
JMA III 28 21 43 25.5–.30 37.90N 143.36E 31 4.1,2.7s
NEIC III 28 21 43 28.0–2.4 37.86N 143.52E 37–20 4.3b,2.7s
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=19.2km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.3km az=151.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=14.9km az=100.0.
ISC III 28 21 55 25.7–.49 37.95N–.04 143.61E–.06 19 4.5b,3.6s 88 2-145
IDC III 28 21 55 22.8–.57 37.89N 143.69E 0 4.4,4.3 **¶16459629**
JMA III 28 21 55 24.7–.20 38.00N 143.59E 40 4.4,4.3
ISCJB III 28 21 55 24.1–.34 37.91N–.03 143.55E–.04 19 4.3b,3.6s
NEIC III 28 21 55 27.6–.34 37.83N 143.66E 35 4.6b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.5km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.2km az=135.3.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.9km az=146.0.
ISC III 28 22 00 54.6–1.3 37.8N–.20 144.5E–.20 35 3.8b 8 5-58
IDC III 28 22 00 49.5–1.4 37.79N 144.47E 0 3.9,3.7 **¶17199000**
ISCJB III 28 22 00 52.2–1.2 37.7N–.20 144.5E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 22 05 25.1–1.4 37.84N–.07 142.2E–.10 35 3.5b 22 1-62
NIED III 28 22 05 00 37.70N 142.20E 35 3.5W **¶17199001**
JMA III 28 22 05 21.4–.20 37.71N 142.22E 20–3 3.5
ISCJB III 28 22 05 22.6–.97 37.76N–.07 142.29E–.10 35 3.4b
IDC III 28 22 05 49.9–7.5 36.59N 139.37E 183–17 3.4,3.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ28.00000°,λ-141.00000°. NP2:ϕ_s200.00000°,δ73.00000°,λ-68.00000°. $M_0$2.22000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.8km az=144.0.
IDC Error ellipse: s-maj=234.2km s-min=15.8km az=64.0.
ISC III 28 23 00 50.9–.52 37.02N–.04 142.43E–.06 9 4.2b,3.6s 72 1-146
NIED III 28 23 00 00 37.10N 142.50E 11 4.1W,3.6s **¶602698144**
JMA III 28 23 00 48.2–.40 37.06N 142.50E 7–4 4.5,3.6s
ISCJB III 28 23 00 49.1–.37 37.01N–.03 142.47E–.04 9 4.2b,3.6s
IDC III 28 23 00 49.6–.58 37.02N 142.45E 0 4.3,4.2L
NEIC III 28 23 00 54.3–2.2 36.94N 142.43E 33–15 4.5b,4.2L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ30.00000°,λ-87.00000°. NP2:ϕ_s214.00000°,δ60.00000°,λ-92.00000°. $M_0$1.81000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=172.5.
IDC Error ellipse: s-maj=16.7km s-min=14.2km az=129.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.4km az=77.0.
JMA III 28 23 32 14.3–.30 38.71N 143.67E 0 4.0
¶602698080
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 28 23 35 30.9–.86 38.70N–.09 144.72E–.08 19 3.7b 24 2-87
NIED III 28 23 35 00 38.80N 144.70E 5 3.8W **¶17199010**
IDC III 28 23 35 27.5–.92 38.56N 144.85E 0 3.9,3.7
ISCJB III 28 23 35 29.2–.67 38.67N–.07 144.71E–.06 19 3.6b,3.7
JMA III 28 23 35 31.0–.30 38.75N 144.70E 42 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ20.00000°,λ-93.00000°. NP2:ϕ_s190.00000°,δ70.00000°,λ-89.00000°. $M_0$5.10000×10^{14}
IDC Error ellipse: s-maj=26.1km s-min=20.2km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.9km az=2.9.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
JMA III 29 00 15 29.7–.20 37.82N 142.01E 32–3 3.6
¶602702754
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 00 16 27.9–1.7 37.08N–.08 143.6E–.10 35 3.8b 16 2-61
NIED III 29 00 16 00 37.10N 143.50E 5 3.6W **¶600570714**
ISCJB III 29 00 16 26.2–1.2 37.07N–.06 143.59E–.09 33 3.7b
IDC III 29 00 16 27.5–1.9 36.41N 143.36E 0 3.8,3.7b
JMA III 29 00 16 28.2–.30 37.07N 143.45E 44 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ21.00000°,λ-131.00000°. NP2:ϕ_s244.00000°,δ74.00000°,λ-76.00000°. $M_0$2.76000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.4km az=141.3.
IDC Error ellipse: s-maj=54.2km s-min=22.0km az=58.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 00 18 12.7–3.6 37.8N–.10 142.8E–.20 10 9 1-62
IDC III 29 00 18 08.2–10 36.61N 143.98E 0 3.8,3.6 **¶17199012**
JMA III 29 00 18 15.0–.40 37.71N 142.74E 23 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=230.0km s-min=47.8km az=31.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 29 00 33 20.2–.90 38.00N–.08 143.83E–.08 35 3.7b 24 2-73
NIED III 29 00 33 00 38.00N 143.80E 5 3.6W **¶17199014**
IDC III 29 00 33 14.6–.97 37.92N 144.00E 0 3.9,3.9s
ISCJB III 29 00 33 17.9–.68 37.94N–.06 143.87E–.06 33 4.0s,3.7b
JMA III 29 00 33 18.6–.30 38.00N 143.80E 41 3.7,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ45.00000°,λ-66.00000°. NP2:ϕ_s13.00000°,δ50.00000°,λ-112.00000°. $M_0$3.10000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=19.6km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.1km az=157.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 29 01 09 27.3–.62 38.22N–.05 144.65E–.06 35 3.9b 61 3-144
IDC III 29 01 09 21.7–.76 38.01N 144.85E 0 4.1,3.9 **¶16475599**
NEIC III 29 01 09 23.4–.51 38.06N 144.82E 10 4.2b,3.9
JMA III 29 01 09 25.9–.20 38.17N 144.51E 38 4.4,3.9
ISCJB III 29 01 09 25.7–.49 38.21N–.04 144.55E–.04 35 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 29 01 26 51.1–.40 38.33N 144.59E 42 3.5
¶602702660
JMA Error ellipse: s-maj=4.4km s-min=2.6km az=-1.0.
JMA III 29 01 31 40.7–.30 36.34N 143.05E 8 3.5
¶602702646
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 01 49 56.6–3.9 36.43N–.05 143.67E–.06 24–28 4.0b,3.1s 46 2-77
NIED III 29 01 49 00 36.40N 143.60E 5 4.1W,3.1s **¶16459632**
IDC III 29 01 49 52.0–.78 36.28N 143.93E 0 4.1,4.0
NEIC III 29 01 49 53.8–.54 36.37N 143.91E 10 4.3b,4.0
JMA III 29 01 49 56.9–.30 36.45N 143.57E 85 3.8,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ21.00000°,λ-84.00000°. NP2:ϕ_s203.00000°,δ69.00000°,λ-92.00000°. $M_0$1.33000×10^{15}

IDC Error ellipse: s-maj=19.9km s-min=17.4km az=157.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.6km az=160.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA III 29 02 19 38.9–.60 37.62N 142.61E 11–4 3.5
¶602702588
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 29 02 56 37.4–.10 38.35N 143.93E 0 3.5
¶602702524
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC III 29 03 32 24.2–.94 40.02N–.04 143.42E–.04 26–6 4.7b,4.1s 233 1-146
NIED III 29 03 32 00 40.10N 143.40E 17 4.5W,4.1s **¶16392133**
IDC III 29 03 32 20.0–.56 39.94N 143.44E 0 4.4,4.3
JMA III 29 03 32 22.2–.20 40.05N 143.37E 18–4 4.5,4.3
ISCJB III 29 03 32 23.0–.94 39.95N–.03 143.41E–.03 30–6 4.7b,4.1s
BJI III 29 03 32 23.7 39.78N 143.15E 17 4.9b,4.6b
NEIC III 29 03 32 25.3–.56 39.94N 143.40E 36–5 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ18.00000°,λ144.00000°. NP2:ϕ_s329.00000°,δ80.00000°,λ76.00000°. $M_0$6.51000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=12.3km az=139.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.0km az=154.7.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.2km az=147.0.
ISC III 29 03 44 55.5–1.2 37.5N–.20 143.6E–.20 35 3.7b 7 4-62
IDC III 29 03 44 50.3–1.3 37.47N 143.79E 0 3.8,3.6 **¶17199020**
ISC Event type ke.
IDC Error ellipse: s-maj=38.4km s-min=23.8km az=129.0.
ISC III 29 03 50 29.0–1.4 37.73N–.07 142.09E–.09 24 3.5b 20 1-62
NIED III 29 03 50 00 37.80N 142.20E 44 3.8W **¶17199022**
IDC III 29 03 50 24.3–2.0 37.78N 142.56E 0 3.7,3.6
ISCJB III 29 03 50 27.5–.93 37.79N–.06 142.29E–.08 24 3.5b,3.6
JMA III 29 03 50 28.8–.20 37.76N 142.15E 29–3 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ67.00000°,λ-16.00000°. NP2:ϕ_s338.00000°,δ75.00000°,λ-156.00000°. $M_0$6.65000×10^{14}
IDC Error ellipse: s-maj=46.3km s-min=24.2km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=8.0km az=13.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 29 03 57 31.3–1.3 37.41N 143.84E 0 3.8,3.6
¶17199023
IDC Error ellipse: s-maj=38.8km s-min=26.1km az=126.0.
ISC III 29 04 23 22.2–2.0 39.97N–.06 143.41E–.07 7–12 3.7b 35 1-87
IDC III 29 04 23 20.9–.93 39.83N 143.74E 0 3.8,3.7L **¶17199026**
JMA III 29 04 23 24.5–.20 40.02N 143.33E 18–4 4.0,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=24.4km s-min=18.4km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 04 25 02.3–.61 37.71N–.05 143.89E–.06 35 3.8b,3.0s 50 2-88
NEIC III 29 04 24 58.9–.42 37.64N 144.01E 10 4.2b,3.0s **¶16475612**
ISCJB III 29 04 25 00.3–.47 37.66N–.05 143.83E–.04 33 4.0b,3.1s
JMA III 29 04 25 01.6–.20 37.68N 143.71E 37 4.2,3.1s
IDC III 29 04 25 02.7–.76 37.63N 143.96E 35–6 4.0,4.0L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.5km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=165.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.3km s-min=14.0km az=95.0.
ISC III 29 04 37 10.0–.84 37.35N–.06 143.45E–.08 35 3.6b 27 2-69
NIED III 29 04 37 00 37.30N 143.40E 8 3.6W **¶17199027**
JMA III 29 04 37 08.9–.20 37.32N 143.38E 40 3.9
ISCJB III 29 04 37 08.5–.73 37.33N–.05 143.45E–.06 33 3.6b
IDC III 29 04 37 11.3–.84 37.20N 143.54E 46–8 4.0L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ44.00000°,λ-41.00000°. NP2:ϕ_s135.00000°,δ63.00000°,λ-126.00000°. $M_0$3.35000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.3km az=163.9.
IDC Error ellipse: s-maj=23.2km s-min=16.0km az=91.0.
ISC III 29 04 46 28.9–.80 36.71N–.05 142.14E–.06 24–5 3.6b,3.5s 31 1-90
NIED III 29 04 46 00 36.70N 142.20E 26 3.8W,3.5s **¶17199028**
JMA III 29 04 46 27.1–.30 36.72N 142.22E 26–5 3.8,3.5s
ISCJB III 29 04 46 28.7–1.1 36.69N–.04 142.19E–.09 37–11 3.8s,3.7b
IDC III 29 04 46 29.4–1.1 36.55N 142.08E 30–6 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ23.00000°,λ113.00000°. NP2:ϕ_s18.00000°,δ69.00000°,λ81.00000°. $M_0$4.95000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.6km az=3.9.
IDC Error ellipse: s-maj=25.8km s-min=19.2km az=160.0.
JMA III 29 04 56 38.2–.20 37.31N 142.09E 8–2 3.7
¶602702105
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 29 04 57 37.8–2.1 36.71N–.08 142.3E–.10 15 3.6b 15 1-45
IDC III 29 04 57 21.8–7.0 35.12N 143.37E 0 3.7L,3.7 **¶17199029**
JMA III 29 04 57 39.6–.30 36.67N 142.30E 32 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=114.5km s-min=69.8km az=128.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 05 11 08.5–1.0 37.75N–.07 143.84E–.07 35 3.6b 25 2-62
NIED III 29 05 11 00 37.80N 143.60E 5 3.6W **¶17199030**
IDC III 29 05 11 03.3–.96 37.57N 144.00E 0 3.7,3.6L
ISCJB III 29 05 11 06.6–.74 37.78N–.05 143.86E–.06 33 3.5b,3.6L
JMA III 29 05 11 08.2–.20 37.76N 143.62E 21 3.8,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ49.00000°,λ-130.00000°. NP2:ϕ_s210.00000°,δ54.00000°,λ-53.00000°. $M_0$3.09000×10^{14}
IDC Error ellipse: s-maj=28.5km s-min=21.6km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.3km az=15.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 29 06 08 10.6–.88 38.08N–.06 143.79E–.07 35 3.4b 32 2-76
IDC III 29 06 08 05.4–.86 37.91N 143.96E 0 3.8,3.6 **¶17199037**
ISCJB III 29 06 08 08.5–.65 38.00N–.05 143.77E–.05 33 3.5b,3.6
JMA III 29 06 08 09.1–.20 38.07N 143.73E 40 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=20.3km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.6km az=162.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 07 30 40.3–1.7 37.73N–.09 143.0E–.10 24 3.6b 13 2-58
IDC III 29 07 30 36.1–2.6 37.58N 143.50E 0 3.6,3.6b **¶600571143**
JMA III 29 07 30 40.4–.30 37.68N 142.99E 42 3.3,3.6b
ISCJB III 29 07 30 40.8–1.5 37.72N–.08 142.9E–.10 24 3.5b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC III 29 07 53 46.6–2.6 37.84N 144.22E 0 4.0,3.9b
¶17199048
IDC Error ellipse: s-maj=69.1km s-min=31.8km az=61.0.
JMA III 29 08 11 07.0–.20 39.27N 143.08E 16–2 3.6
¶602702389
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 29 09 08 54.0–.80 37.64N 143.75E 0 3.5
¶602702280
JMA Error ellipse: s-maj=4.4km s-min=5.3km az=-1.0.
ISC III 29 09 24 49.4–.55 38.39N–.06 144.52E–.06 29 4.3b,3.4s 63 2-144
IDC III 29 09 24 44.5–.72 38.28N 144.68E 0 4.4,4.2 **¶16475645**
NEIC III 29 09 24 46.4–.37 38.31N 144.60E 10 4.6b,4.2
ISCJB III 29 09 24 47.8–.37 38.38N–.05 144.49E–.04 29 4.3b,3.5s
JMA III 29 09 24 49.0–.30 38.46N 144.39E 30 4.6,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=15.4km az=154.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.4km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.6km az=164.3.

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 29 09 29 07.3–.90 37.90N–.07 143.47E–.08 19 3.9b 36 2-81
IDC III 29 09 29 04.0–.86 37.85N 143.60E 0 3.9L,3.8 ¶16475647
NEIC III 29 09 29 04.9–.50 37.75N 143.70E 10 4.1b,3.8
ISCJB III 29 09 29 05.0–.54 37.86N–.05 143.50E–.05 19 3.9b,3.8
JMA III 29 09 29 06.6–.20 37.92N 143.47E 40 4.2,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=16.8km az=116.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.7km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=158.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 10 23 15.4–.62 37.17N–.05 143.93E–.07 35 3.9b 53 2-88
IDC III 29 10 23 10.1–.66 37.06N 144.10E 0 4.1,4.0 ¶16475653
NEIC III 29 10 23 11.6–.48 37.14N 144.09E 10 4.4b,4.0
ISCJB III 29 10 23 13.2–.43 37.14N–.04 143.89E–.04 33 4.0b,3.0s
JMA III 29 10 23 14.2–.40 37.29N 143.83E 41 4.5,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=14.9km az=106.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.8km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=156.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 29 10 25 51.2–1.2 37.07N–.07 143.88E–.09 35 3.7b 27 2-61
IDC III 29 10 25 46.2–1.4 37.02N 143.97E 0 3.9,3.7 ¶17199059
ISCJB III 29 10 25 50.3–.84 37.00N–.06 143.82E–.06 33 3.7b,3.7
JMA III 29 10 25 52.1–.30 37.08N 143.70E 43 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=27.1km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.0km az=4.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 29 10 35 29.6–3.3 37.24N 144.33E 0 3.8,3.5
¶17199061
IDC Error ellipse: s-maj=84.9km s-min=35.2km az=53.0.
ISC III 29 10 54 34.0–.34 37.44N–.02 142.35E–.02 20–1 6.1s,6.0b 2166 1-161
NIED III 29 10 54 00 37.40N 142.40E 23 6.2W,6.0b ¶602707319
BJI III 29 10 54 28.7 37.40N 142.45E 15 6.6s,6.5
JMA III 29 10 54 30.4–.20 37.41N 142.47E 13–3 6.6,6.5
IDC III 29 10 54 30.6–.29 37.46N 142.35E 0 6.1,6.1s
ISCJB III 29 10 54 31.0–.50 37.40N–.01 142.34E–.01 10–3 6.2s,6.0b
NEIC III 29 10 54 33.2–.07 37.40N 142.29E 15 6.2,6.1W
GCMT III 29 10 54 33.2–.10 37.47N 142.37E 18–0 6.2W,6.1W
NEIC III 29 10 54 33.0–.00 37.21N 142.65E 18 6.2W,6.1W
MOS III 29 10 54 34.2–1.0 37.64N 142.36E 33 6.2b,6.1s
NEIC III 29 10 54 50.1–.00 37.46N 141.75E 10 6.2b,6.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ46.00000°,λ-130.00000°. NP2:ϕ_s224.00000°,δ57.00000°,λ-56.00000°. M_o1.99000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=73.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=164.9.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=140.0. Felt [III] at Tokyo. Also felt at Ageo, Ayase, Kawasaki, Misawa, Musashimurayama, Narita and Otawara. Recorded [4 JMA] in Fukushima and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o3.10000×10^{18} Moment Tensor Solution. s67 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.49 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$1.68 $M_{r\theta}$0.98 $M_{\theta\phi}$0.52 $M_{\phi r}$0.48 Best double couple: NP1:ϕ_s351.00000° ,δ38.00000°,λ-131.00000°. NP2:ϕ_s219.00000°,δ62.00000°,λ-63.00000°. Principal axes: T 1.9700,Plg13.0000°,Azm289.0000°; N 0.0500,Plg24.0000°,Azm25.0000° ; P -2.0200,Plg63.0000°,Azm174.0000° M_o2.00000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s50.00000°,δ20.00000°,λ-90.00000°. NP2: ϕ_s230.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm320.0000° ; N Plg0.0000°,Azm0.0000°; P Plg65.0000°,Azm140.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s135,c315; s145,c563;Duration: 3s1 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.64±.01 $M_{\theta\theta}$0.13±.01; $M_{\phi\phi}$1.51±.01; $M_{r\theta}$1.55±.03; $M_{\theta\phi}$0.77±.01; $M_{\phi r}$0.90±.02; Best double couple: NP1:ϕ_s228.00000°,δ69.00000°,λ-70.00000°. NP2:ϕ_s3.00000° ,δ29.00000°,λ-131.00000°. Principal axes: T 2.4290,Plg21.0000°,Azm303.0000° ; N 0.1510,Plg18.0000°,Azm41.0000°; P -2.5800,Plg61.0000°,Azm168.0000° M_o2.50500×10^{18}
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.29 $M_{\theta\theta}$0.27 $M_{\phi\phi}$1.02 $M_{r\theta}$1.31 $M_{\theta\phi}$0.45 $M_{\phi r}$0.93 Best double couple: NP1:ϕ_s227.00000° ,δ72.00000°,λ-77.00000°. NP2:ϕ_s11.00000°,δ22.00000°,λ-123.00000°. Principal axes: T 1.9100,Plg25.0000°,Azm306.0000°; N 0.2400,Plg12.0000°,Azm42.0000° ; P -2.1500,Plg61.0000°,Azm155.0000° M_o2.00000×10^{18}
MOS Error ellipse: s-maj=8.4km s-min=4.5km az=105.6.
NEIC Event type se. Moment Tensor Solution. s36 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.45 $M_{\theta\theta}$0.21 $M_{\phi\phi}$1.24 $M_{r\theta}$-0.64 $M_{\theta\phi}$0.70 $M_{\phi r}$0.28 Best double couple: NP1:ϕ_s185.00000° ,δ49.00000°,λ-122.00000°. NP2:ϕ_s49.00000°,δ50.00000°,λ-59.00000°. Principal axes: T 1.5900,Plg1.0000°,Azm117.0000°; N 0.1600,Plg23.0000°,Azm208.0000° ; P -1.7500,Plg67.0000°,Azm25.0000° M_o1.70000×10^{18}
JMA III 29 11 06 45.8–.40 37.52N 142.16E 0 3.6
¶602701493
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISC III 29 11 12 41.2–1.3 37.37N–.06 142.6E–.10 21 3.5b 20 1-61
IDC III 29 11 12 37.0–2.3 37.37N 142.94E 0 3.6,3.6 ¶17199062
ISCJB III 29 11 12 40.3–.96 37.36N–.06 142.52E–.09 21 3.4b,3.6
JMA III 29 11 12 42.9–.30 37.50N 142.25E 9–4 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=56.1km s-min=24.4km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.2km az=164.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 29 11 34 33.4–.30 37.40N 142.45E 0 3.7
¶602701438
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 11 37 47.9–.87 38.08N–.07 144.25E–.08 35 3.7b 25 2-75
IDC III 29 11 37 42.7–.79 37.86N 144.54E 0 3.9,3.7 ¶602701428
JMA III 29 11 37 45.7–.40 38.13N 144.20E 38 3.9,3.7
ISCJB III 29 11 37 45.8–.62 38.02N–.07 144.23E–.06 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 29 11 38 18.3–.30 37.40N 142.56E 31 3.9
¶17199064
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 11 40 29.3–2.1 37.38N–.05 142.49E–.06 3–12 4.3b 63 1-89
JMA III 29 11 40 28.6–.30 37.44N 142.49E 0 4.4 ¶16475660
IDC III 29 11 40 28.8–.63 37.36N 142.52E 0 4.2,4.2
ISCJB III 29 11 40 29.3–1.6 37.36N–.03 142.62E–.04 15–10 4.2b,4.2
NEIC III 29 11 40 33.9–.37 37.38N 142.59E 35 4.6b,4.2
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=14.4km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.1km az=147.4.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.9km az=130.0.
ISC III 29 11 43 30.1–.65 38.10N–.06 144.23E–.06 35 4.1b 56 2-88
IDC III 29 11 43 24.8–.71 38.01N 144.39E 0 4.5,4.5s ¶16475661
ISCJB III 29 11 43 28.1–.41 38.09N–.05 144.20E–.04 33 4.5s,4.1b
JMA III 29 11 43 28.1–.30 38.07N 144.15E 43 4.4,4.1b
NEIC III 29 11 43 30.0–.35 38.02N 144.28E 35 4.3b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.9km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.2km az=170.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.1km az=141.0.
ISC III 29 11 48 26.7–1.3 37.29N–.06 142.50E–.10 21 3.6b 16 1-61
IDC III 29 11 48 23.4–2.4 37.25N 142.74E 0 3.8,3.7 ¶602701419
ISCJB III 29 11 48 24.4–1.0 37.27N–.07 142.63E–.09 21 3.6b,3.7
JMA III 29 11 48 25.1–.30 37.28N 142.65E 52 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=57.4km s-min=25.9km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.5km az=142.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 12 23 45.7–1.8 37.38N–.09 143.4E–.10 35 16 2-58
JMA III 29 12 23 38.2–.30 37.31N 143.82E 36 3.5 ¶17199068
IDC III 29 12 23 40.5–3.4 37.81N 143.43E 0 3.8,3.8s
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=74.6km s-min=43.8km az=55.0.
ISC III 29 12 51 05.0–.81 37.35N–.06 143.99E–.07 35 4.0b 52 2-84
IDC III 29 12 50 59.3–.82 37.12N 144.11E 0 4.1,3.9 ¶16475667
NEIC III 29 12 51 00.8–.59 37.15N 144.14E 10 4.2b,3.9
ISCJB III 29 12 51 02.9–.55 37.30N–.04 143.90E–.05 33 3.9b,3.9
JMA III 29 12 51 03.9–.40 37.30N 143.84E 54 4.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=16.2km az=112.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.6km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.7km az=139.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 29 13 01 08.1–3.5 37.48N–.06 143.2E–.10 4–18 23 2-61
JMA III 29 13 01 04.8–.50 37.38N 143.72E 28 3.5 ¶17199070
IDC III 29 13 01 14.3–8.1 36.64N 142.85E 0 3.8,3.6b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=175.0km s-min=45.2km az=30.0.
ISC III 29 13 08 50.4–.78 38.08N–.05 144.17E–.08 35 3.8b 49 2-75
IDC III 29 13 08 45.3–.77 37.96N 144.43E 0 4.1L,3.9 ¶16475587
JMA III 29 13 08 48.7–.20 38.13N 144.19E 46 3.8,3.9
ISCJB III 29 13 08 48.1–.47 38.08N–.03 144.21E–.04 33 3.8b,3.9
NEIC III 29 13 08 50.4–.48 37.96N 144.34E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=15.9km az=122.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.9km az=36.8.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=131.0.
ISC III 29 13 13 57.5–1.0 37.44N–.06 142.35E–.09 21 3.7b 25 1-69
JMA III 29 13 13 53.3–.40 37.47N 142.44E 0 4.3 ¶16475588
IDC III 29 13 13 53.6–1.2 37.22N 142.66E 0 4.4,4.4s
ISCJB III 29 13 13 54.7–.75 37.37N–.05 142.52E–.08 21 4.5s,3.8b
NEIC III 29 13 13 58.2–1.1 37.30N 142.57E 35 4.5b,3.8b
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=30.8km s-min=20.9km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.8km az=19.0.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=12.5km az=124.0.
JMA III 29 13 15 57.6–.30 38.91N 144.01E 39 3.8
¶602701304
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 29 13 18 11.1–.20 39.78N 143.46E 3–3 3.9
¶602701300
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 29 13 42 07.6–.95 37.10N–.06 142.59E–.07 9 3.8b 30 1-61
IDC III 29 13 42 05.4–2.0 37.49N 143.12E 0 3.8,3.8 ¶602701222
ISCJB III 29 13 42 05.9–.70 37.10N–.05 142.78E–.08 9 3.9b,3.8
JMA III 29 13 42 09.3–.20 37.35N 142.52E 1 4.2,3.8
NEIC III 29 13 42 11.2–1.1 37.44N 142.91E 35 4.4b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=53.7km s-min=20.2km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.6km az=155.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=13.5km az=83.0.
ISC III 29 13 48 55.6–4.1 37.75N–.05 142.87E–.07 14–26 4.0b 53 1-74
ISCJB III 29 13 48 53.8–1.4 37.72N–.03 142.94E–.05 16–11 4.0b ¶16459635
IDC III 29 13 48 53.5–.72 37.73N 142.93E 0 4.1,4.0
JMA III 29 13 48 54.0–.40 37.80N 142.76E 2–5 4.3,4.0
NEIC III 29 13 48 58.3–.41 37.71N 142.96E 35 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.5km az=154.2.
IDC Error ellipse: s-maj=20.9km s-min=14.0km az=107.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.4km az=113.0.
ISC III 29 13 55 33.9–.58 37.30N–.05 142.46E–.07 21 4.2b 54 1-83
NIED III 29 13 55 00 37.40N 142.30E 11 4.2W ¶600571600
IDC III 29 13 55 30.4–.69 37.23N 142.47E 0 4.2,4.1
ISCJB III 29 13 55 31.8–.43 37.26N–.04 142.50E–.05 21 4.1b,4.0s
JMA III 29 13 55 32.9–.30 37.40N 142.32E 10–3 4.2,4.0s
NEIC III 29 13 55 36.2–.90 37.16N 142.57E 46–8 4.7b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ28.00000°,λ-75.00000°. NP2:ϕ_s234.00000°,δ63.00000°,λ-98.00000°. M_o2.14000×10^{15}
IDC Error ellipse: s-maj=19.9km s-min=15.1km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.3km az=31.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.6km az=102.0.
JMA III 29 14 00 31.6–.40 37.69N 142.92E 29 3.5
¶602701195
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 29 15 04 02.9–.61 37.36N–.05 142.50E–.07 21 3.8b 35 1-77
JMA III 29 15 03 58.5–.30 37.38N 142.56E 0 4.2 ¶600571684
IDC III 29 15 03 59.8–.65 37.36N 142.54E 0 4.0,3.9
ISCJB III 29 15 04 00.5–.44 37.29N–.04 142.62E–.05 21 3.9b,3.9
NEIC III 29 15 04 05.5–1.2 37.36N 142.54E 41–11 4.3b,3.9
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=21.0km s-min=13.5km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.1km az=151.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.8km az=91.0.
ISC III 29 15 11 02.0–1.2 37.41N–.07 142.5E–.10 21 3.5b 14 1-61
JMA III 29 15 10 58.8–.20 37.45N 142.47E 0–3 3.8 ¶17199077
IDC III 29 15 10 59.2–1.3 37.38N 142.59E 0 3.5,3.4
ISCJB III 29 15 11 00.2–.90 37.40N–.08 142.57E–.09 21 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 29 15 16 12.7–1.3 37.4N–.10 143.78E–.09 35 3.3b 11 2-58
IDC III 29 15 16 07.5–1.4 37.16N 144.08E 0 3.6,3.4L ¶17199078
ISCJB III 29 15 16 10.7–1.1 37.30N–.09 143.79E–.08 33 3.3b,3.1s
JMA III 29 15 16 12.3–.30 37.40N 143.72E 44 3.8,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=49.9km s-min=26.3km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=8.8km az=9.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 15 17 44.8–.98 37.40N–.09 142.23E–.08 21 3.6b 15 1-69
NIED III 29 15 17 00 37.50N 142.10E 23 3.6W ¶17199079
IDC III 29 15 17 41.5–.89 37.36N 142.59E 0 3.8,3.7b
JMA III 29 15 17 46.7–.60 37.55N 142.15E 11 3.5,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ63.00000°,λ25.00000°. NP2:ϕ_s8.00000°,δ68.00000°,λ150.00000°. M_o2.56000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=18.8km az=101.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 29 15 34 24.5–.20 38.36N 144.42E 35 4.8
¶602700937
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 29 15 53 28.5–2.4 37.47N–.07 142.55E–.08 8–13 3.6b 23 1-61
NIED III 29 15 53 00 37.40N 142.50E 8 3.6W ¶17199080
IDC III 29 15 53 27.1–1.1 37.40N 142.62E 0 3.7,3.6
JMA III 29 15 53 28.9–.20 37.40N 142.52E 12 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ36.00000°,λ-92.00000°. NP2:ϕ_s45.00000°,δ54.00000°,λ-89.00000°. M_o2.42000×10^{14}
IDC Error ellipse: s-maj=29.9km s-min=21.1km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC III 29 16 04 19.4–1.6 37.27N 142.70E 0 3.4,3.3
¶602701669
IDC Error ellipse: s-maj=37.0km s-min=23.6km az=96.0.

IDC III 29 16 33 28.7–1.4 37.83N 142.60E 0 3.9,3.7 ¶17199084
IDC Error ellipse: s-maj=39.2km s-min=29.1km az=76.0.
ISC III 29 16 35 49.0–.42 39.60N–.03 143.60E–.03 26–2 5.3b,5.2s 1344 1-154
NIED III 29 16 35 00 39.70N 143.80E 11 5.4W,5.2s **¶16455783**
JMA III 29 16 35 44.1–.20 39.65N 143.78E 8 5.6,5.2s
IDC III 29 16 35 45.1–.33 39.54N 143.56E 0 5.0,5.0
ISCJB III 29 16 35 46.1–.63 39.62N–.02 143.48E–.02 11–3 5.2b,5.2s
BJI III 29 16 35 47.1 39.57N 143.12E 10 5.6b,5.6s
NEIC III 29 16 35 49.3–.98 39.59N 143.46E 25–7 5.5W,5.3b
GCMT III 29 16 35 49.3–.10 39.64N 143.73E 13–0 5.4W,5.3b
MOS III 29 16 35 49.7–.97 39.83N 143.42E 33 5.6b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ34.00000°,λ65.00000°. NP2:ϕ_s30.00000°,δ60.00000°,λ106.00000°. $M_0$1.31000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=9.6km s-min=8.6km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.0km az=165.9.
NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.2km az=145.0. Moment Tensor Solution. s52 Moment tensor: Scale 10^{17}Nm; M_{rr}1.46 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$-1.25 $M_{r\theta}$0.75 $M_{\theta\phi}$0.00 $M_{\phi r}$1.61 Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ63.00000°. NP2:ϕ_s19.00000°,δ72.00000°,λ99.00000°. Principal axes: T 2.3900,Plg62.0000°,Azm303.0000° ; N -0.3300,Plg9.0000°,Azm196.0000°; P -2.0600,Plg26.0000°,Azm101.0000° $M_0$2.20000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c160; s130,c265; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.04±.02 $M_{\theta\theta}$-0.04±.01; $M_{\phi\phi}$-0.99±.01; $M_{r\theta}$0.45±.03; $M_{\theta\phi}$-0.27±.01; $M_{\phi r}$1.14±.05; Best double couple: NP1:ϕ_s20.00000°,δ70.00000°,λ94.00000°. NP2:ϕ_s189.00000°,δ21.00000°,λ80.00000°. Principal axes: T 1.6070,Plg65.0000°,Azm296.0000°; N 0.0180,Plg4.0000°,Azm199.0000° ; P -1.6260,Plg25.0000°,Azm107.0000° $M_0$1.61700×10^{17}
MOS Error ellipse: s-maj=8.1km s-min=5.1km az=98.3.
ISC III 29 16 44 49.8–.72 38.00N–.06 142.36E–.06 14 4.0b 40 1-76
IDC III 29 16 44 47.9–.92 38.04N 142.42E 0 3.9,3.9 **¶16475591**
ISCJB III 29 16 44 48.1–.51 37.99N–.05 142.49E–.05 14 4.0b,3.9
JMA III 29 16 44 51.4–.30 38.11N 142.37E 27–4 4.4,3.9
NEIC III 29 16 44 52.8–.78 38.00N 142.41E 35 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=17.6km az=138.0.
ISCJB Event type fe. Error ellipse: s-maj=6.9km s-min=5.6km az=162.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=8.7km az=140.0.
ISC III 29 16 52 00.3–1.2 38.62N–.08 144.66E–.09 29 3.5b 31 2-69
IDC III 29 16 51 54.3–1.2 38.39N 144.98E 0 3.7,3.6 **¶17199086**
ISCJB III 29 16 51 58.8–.78 38.61N–.06 144.64E–.06 29 3.6b,3.6
JMA III 29 16 51 59.5–.30 38.58N 144.63E 44 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=18.0km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.3km az=163.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 29 16 55 29.6–1.4 37.8N–.10 144.0E–.20 35 3.5b 10 5-62
IDC III 29 16 55 24.3–1.3 37.87N 144.11E 0 3.6,3.5 **¶17199087**
ISCJB III 29 16 55 27.4–1.1 37.73N–.09 144.0E–.20 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 29 17 20 08.4–.74 37.19N–.09 142.71E–.09 9 3.7b 17 4-146
ISCJB III 29 17 20 06.1–.65 37.13N–.07 142.80E–.09 9 3.7b **¶17199091**
IDC III 29 17 20 07.0–.82 37.19N 142.64E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.5km az=42.7.
IDC Error ellipse: s-maj=21.8km s-min=17.0km az=109.0.
ISC III 29 17 24 18.1–1.9 37.26N–.05 143.96E–.05 12–12 4.6b,4.1s 235 2-145
IDC III 29 17 24 15.8–.54 37.18N 144.08E 0 4.4,4.4 **¶16389124**
NEIC III 29 17 24 17.2–.26 37.20N 144.07E 10 4.7b,4.4
MOS III 29 17 24 18.1–1.1 37.28N 143.99E 24 4.8b,4.4
BJI III 29 17 24 18.0 37.44N 143.90E 17 5.0b,4.6b
ISCJB III 29 17 24 18.7–.23 37.22N–.03 143.88E–.03 27 4.5b,4.0s
JMA III 29 17 24 19.3–.20 37.27N 143.87E 52 4.6,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=12.3km az=117.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=143.0.
MOS Error ellipse: s-maj=9.0km s-min=5.0km az=114.7.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=160.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 29 17 30 09.3–1.1 37.18N–.08 144.05E–.09 23–7 4.0b 56 5-84
IDC III 29 17 30 06.0–.63 37.19N 144.11E 0 4.0,3.9 **¶16475692**
NEIC III 29 17 30 07.4–.32 37.22N 144.15E 10 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=13.8km az=121.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.1km az=143.0.
ISC III 29 17 52 58.7–.57 37.80N–.05 143.21E–.07 18 3.9b 57 2-76
IDC III 29 17 52 56.2–.64 37.79N 143.24E 0 3.8,3.8L **¶16475694**
JMA III 29 17 52 57.6–.30 37.87N 143.25E 30 4.0,3.8L
ISCJB III 29 17 52 57.1–.40 37.81N–.04 143.22E–.05 18 3.8b,3.8L
NEIC III 29 17 53 01.0–.36 37.76N 143.29E 35 4.2b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=14.3km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=5.1km az=0.9.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.4km az=116.0.
ISC III 29 18 16 27.0–.65 37.29N–.05 142.46E–.08 21 4.0b 50 1-83
NIED III 29 18 16 00 37.30N 142.30E 20 3.8W **¶602700854**
IDC III 29 18 16 23.6–1.2 37.26N 142.55E 0 3.9,3.8
ISCJB III 29 18 16 24.9–.47 37.22N–.04 142.54E–.06 21 4.1b,3.8
JMA III 29 18 16 25.8–.20 37.32N 142.26E 0 4.3,3.8
NEIC III 29 18 16 29.4–.87 37.24N 142.50E 42–8 4.5b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ67.00000°,λ171.00000°. NP2:ϕ_s225.00000°,δ82.00000°,λ23.00000°. $M_0$5.47000×10^{14}
IDC Error ellipse: s-maj=30.4km s-min=19.4km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.3km az=0.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.2km az=97.0.
ISC III 29 18 35 34.5–.99 37.06N–.09 144.0E–.10 10 3.8b 14 5-61
ISCJB III 29 18 35 32.8–.77 37.14N–.08 143.98E–.09 10 3.7b **¶17199094**
IDC III 29 18 35 33.5–.97 37.14N 144.05E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=9.5km az=149.8.
IDC Error ellipse: s-maj=26.0km s-min=18.2km az=108.0.
ISC III 29 18 44 25.1–.98 37.67N–.05 142.30E–.07 10 3.7b 26 1-62
NIED III 29 18 44 00 37.70N 142.30E 8 3.6W **¶16475702**
IDC III 29 18 44 22.2–2.1 37.81N 142.80E 0 3.8L,3.7
ISCJB III 29 18 44 23.1–.64 37.69N–.06 142.51E–.07 10 3.8b,3.7
JMA III 29 18 44 25.4–.30 37.70N 142.32E 6–3 3.8,3.7
NEIC III 29 18 44 28.3–1.1 37.72N 142.61E 38–8 4.6b,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ37.00000°,λ-148.00000°. NP2:ϕ_s240.00000°,δ71.00000°,λ-57.00000°. $M_0$2.92000×10^{14}
IDC Error ellipse: s-maj=55.8km s-min=21.7km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=7.2km az=40.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=7.8km az=94.0.
IDC III 29 18 44 56.1–14 37.10N 144.43E 0 3.7,3.7 ¶17199099
IDC Error ellipse: s-maj=272.5km s-min=69.1km az=140.0.
ISC III 29 18 54 10.0–.80 37.90N–.06 143.92E–.08 35 3.8b 45 2-75
IDC III 29 18 54 04.5–.95 37.78N 144.04E 0 3.8,3.8 **¶16475707**
JMA III 29 18 54 08.6–.20 37.92N 143.86E 41 4.1,3.8
ISCJB III 29 18 54 08.0–.50 37.83N–.04 143.90E–.05 33 3.9b,3.8
NEIC III 29 18 54 09.8–.35 37.77N 144.03E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=16.7km az=98.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.3km az=12.4.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.0km az=118.0.
IDC III 29 18 58 57.7–1.5 36.44N 143.22E 0 3.5,3.4b ¶17199101
IDC Error ellipse: s-maj=37.6km s-min=25.7km az=81.0.
JMA III 29 19 24 22.9–.30 37.37N 142.48E 0 3.5 ¶602700722
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 20 14 53.1–2.3 34.47N–.05 141.84E–.06 1–13 4.1b 77 1-148
NIED III 29 20 14 00 34.40N 141.90E 14 3.7W **¶16459637**
IDC III 29 20 14 53.2–.57 34.44N 141.83E 0 4.1,3.9
JMA III 29 20 14 54.7–.30 34.41N 141.91E 40–3 3.6,3.9
NEIC III 29 20 14 56.0–2.9 34.42N 141.81E 19–18 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s144.00000°,δ63.00000°,λ-27.00000°. NP2:ϕ_s247.00000°,δ67.00000°,λ-150.00000°. $M_0$4.55000×10^{14}
IDC Error ellipse: s-maj=18.1km s-min=12.4km az=101.0.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.6km az=74.0.
ISC III 29 20 18 28.6–1.0 39.75N–.06 143.62E–.07 11 3.2b 22 1-61
NIED III 29 20 18 00 39.60N 143.70E 20 3.6W **¶17199106**
JMA III 29 20 18 26.9–.40 39.65N 143.69E 6 3.8
IDC III 29 20 18 26.7–1.2 39.59N 143.63E 0 3.5,3.5L
ISCJB III 29 20 18 26.8–.79 39.66N–.05 143.74E–.07 11 3.3b,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ63.00000°,λ167.00000°. NP2:ϕ_s159.00000°,δ79.00000°,λ28.00000°. $M_0$2.95000×10^{14}
ISCJB Event type ke.
JMA III 29 20 35 33.2–.30 38.01N 144.49E 41 3.9 ¶602701166
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 29 20 40 46.1–.69 37.01N–.04 142.56E–.05 9 4.1b,3.6s 46 1-72
NIED III 29 20 40 00 37.00N 142.70E 14 4.1W,3.6s **¶16475718**
IDC III 29 20 40 44.6–.94 36.90N 142.84E 0 3.9,3.9b
ISCJB III 29 20 40 44.9–.46 36.96N–.03 142.66E–.05 9 4.0b,3.6s
JMA III 29 20 40 48.0–.20 37.00N 142.65E 53 3.6,3.6s
NEIC III 29 20 40 48.2–2.5 36.93N 142.82E 25–18 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ28.00000°,λ102.00000°. NP2:ϕ_s28.00000°,δ62.00000°,λ84.00000°. $M_0$1.84000×10^{15}
IDC Error ellipse: s-maj=22.5km s-min=16.7km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=24.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.3km az=117.0.
ISC III 29 20 44 55.5–.53 37.97N–.06 144.54E–.06 35 4.3b 96 3-144
IDC III 29 20 44 50.3–.66 37.92N 144.72E 0 4.2,4.1 **¶602701139**
NEIC III 29 20 44 53.3–2.8 38.00N 144.69E 18–17 4.6b,4.1
ISCJB III 29 20 44 53.9–.30 38.00N–.04 144.51E–.04 33 4.3b,4.1
JMA III 29 20 44 54.6–.20 38.07N 144.45E 40 4.6,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=17.2km s-min=14.1km az=148.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.1km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.0km az=174.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 29 21 00 03.6–.94 38.02N–.06 144.62E–.07 35 3.5b 41 3-75
IDC III 29 20 59 57.9–1.1 37.79N 144.82E 0 3.7,3.6 **¶17199112**
JMA III 29 21 00 02.7–.30 38.05N 144.52E 40 4.5,3.6
ISCJB III 29 21 00 02.9–.73 38.11N–.05 144.54E–.05 33 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 29 21 06 15.4–.65 37.31N–.04 142.55E–.04 17–3 4.7b,4.0s 276 1-146
NIED III 29 21 06 00 37.40N 142.60E 17 4.4W,4.0s **¶600572184**
JMA III 29 21 06 12.3–.30 37.38N 142.56E 7–5 4.6,4.0s
IDC III 29 21 06 13.2–.52 37.33N 142.52E 0 4.3,4.2
BJI III 29 21 06 13.6 37.30N 142.50E 21 4.9b,4.6b
ISCJB III 29 21 06 13.7–.94 37.31N–.03 142.56E–.03 14–5 4.6b,3.9s
MOS III 29 21 06 16.8–1.1 37.34N 142.54E 36 4.9b,3.9s
NEIC III 29 21 06 18.7–.76 37.29N 142.55E 38–7 4.8b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ40.00000°,λ-135.00000°. NP2:ϕ_s220.00000°,δ63.00000°,λ-59.00000°. $M_0$4.58000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=14.2km s-min=12.1km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.8km az=172.4.
MOS Error ellipse: s-maj=9.2km s-min=5.5km az=118.3.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=99.0.
ISC III 29 21 32 12.1–.85 36.24N–.05 143.38E–.07 35 3.6b 35 2-89
NIED III 29 21 32 00 36.30N 143.30E 8 3.7W **¶17199117**
IDC III 29 21 32 07.5–.78 36.11N 143.53E 0 3.8,3.8L
ISCJB III 29 21 32 10.9–.56 36.28N–.04 143.34E–.05 33 3.6b,3.8L
JMA III 29 21 32 12.1–.30 36.29N 143.27E 79 3.8,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ41.00000°,λ-61.00000°. NP2:ϕ_s182.00000°,δ55.00000°,λ-113.00000°. $M_0$4.62000×10^{14}
IDC Error ellipse: s-maj=24.7km s-min=16.9km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.1km az=148.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 29 21 52 10.2–1.5 37.3N–.10 142.4E–.10 21 3.2b 10 1-57
NIED III 29 21 52 00 37.40N 142.40E 5 3.9W **¶17199118**
IDC III 29 21 52 06.2–7.9 37.31N 142.60E 0 3.7s,3.7
JMA III 29 21 52 07.2–.20 37.40N 142.43E 4–3 3.9,3.7
ISCJB III 29 21 52 07.8–1.3 37.3N–.10 142.5E–.10 21 3.7s,3.2b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ10.00000°,λ-29.00000°. NP2:ϕ_s267.00000°,δ85.00000°,λ-98.00000°. $M_0$8.89000×10^{14}
ISCJB Event type ke.
ISC III 29 22 17 31.6–1.5 37.83N–.05 143.6E–.10 19 3.9b 26 2-58
NIED III 29 22 17 00 37.90N 143.50E 5 3.7W **¶17199120**
IDC III 29 22 17 29.5–2.3 37.65N 143.93E 0 4.1,4.1L
JMA III 29 22 17 33.1–.20 37.93N 143.46E 26 3.8,4.1L
ISCJB III 29 22 17 33.2–.96 37.87N–.06 143.42E–.08 19 3.7b,4.1L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ48.00000°,λ-147.00000°. NP2:ϕ_s235.00000°,δ66.00000°,λ-48.00000°. $M_0$3.68000×10^{14}
ISCJB Event type ke.
ISC III 29 22 21 11.5–.63 38.10N–.06 143.87E–.07 35 3.9b 49 2-88
IDC III 29 22 21 05.8–.63 37.99N 144.03E 0 4.0,3.9 **¶16475730**
JMA III 29 22 21 09.3–.20 38.10N 143.86E 38 4.3,3.9
ISCJB III 29 22 21 09.3–.44 38.03N–.05 143.89E–.04 33 4.0b,3.9
NEIC III 29 22 21 10.5–.44 37.87N 144.06E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=15.1km az=122.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.6km az=2.1.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.6km az=126.0.
JMA III 29 23 18 06.8–.30 37.93N 143.70E 23 3.6
NIED III 29 23 18 00 37.90N 143.70E 5 3.6W **¶600572298**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ33.00000°,λ-142.00000°. NP2:ϕ_s242.00000°,δ71.00000°,λ-63.00000°. $M_0$2.45000×10^{14}
JMA III 29 23 20 16.7–.20 38.66N 144.50E 35 3.8 ¶602700356
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 29 23 20 52.1–.40 37.33N 144.26E 39 3.8 ¶602700353
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 29 23 36 51.6–.46 37.80N–.04 142.64E–.04 21–4 4.9b,4.5s 728 1-148
NIED III 29 23 36 00 37.70N 142.80E 26 4.7W,4.5s **¶16391165**
JMA III 29 23 36 47.2–.40 37.71N 142.76E 7–5 4.9,4.5s

BJI III 29 23 36 48.0 37.69N 142.64E 14 5.1b,5.1b
IDC III 29 23 36 48.3–.40 37.70N 142.65E 0 4.8,4.7
NEIC III 29 23 36 50.6–1.7 37.70N 142.59E 12–10 4.9b,4.7
ISCJB III 29 23 36 50.1–.79 37.75N–.03 142.64E–.02 18–5 4.8b,4.5s
MOS III 29 23 36 51.7–.79 38.03N 142.59E 21 5.2b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ35.00000°,λ101.00000°. NP2:ϕ_s27.00000°,δ56.00000°,λ83.00000°. $M_0$1.26000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.2km s-min=10.3km az=130.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=168.3.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=104.3.
JMA III 29 23 44 44.4–.30 37.98N 142.96E 7 3.8
¶602700337

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 30 00 43 59.1–.89 37.22N–.07 143.51E–.07 35 3.6b 24 2-89
NIED III 30 00 43 00 37.20N 143.50E 20 3.8W **¶17199130**
IDC III 30 00 43 54.9–.84 37.14N 143.87E 0 3.8,3.8L
JMA III 30 00 43 58.1–.30 37.24N 143.50E 48 3.8,3.8L
ISCJB III 30 00 43 58.1–.63 37.17N–.06 143.49E–.05 33 3.6b,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s289.00000°,δ13.00000°,λ122.00000°. NP2:ϕ_s76.00000°,δ79.00000°,λ83.00000°. $M_0$6.24000×10^{14}
ISCJB Event type ke.
IDC III 30 01 28 27.7–3.3 36.92N 144.10E 0 3.8,3.6b
¶17199137

IDC Error ellipse: s-maj=86.5km s-min=30.3km az=55.0.
ISC III 30 02 10 46.5–1.5 36.71N–.05 142.2E–.10 19 3.5b 17 1-57
JMA III 30 02 10 44.1–.30 36.70N 142.33E 19 3.4 **¶17199142**
ISCJB III 30 02 10 44.1–1.3 36.69N–.05 142.4E–.10 19 3.6b
IDC III 30 02 10 48.5–2.5 37.22N 141.91E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=6.5km az=3.3.
IDC Error ellipse: s-maj=63.3km s-min=28.8km az=64.0.
JMA III 30 02 13 01.3–.30 37.64N 144.49E 21 3.9
¶602704483

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 30 02 21 27.0–1.1 39.22N–.09 144.22E–.08 23 3.5b 25 2-75
IDC III 30 02 21 22.8–2.4 38.86N 144.77E 0 3.7,3.7L **¶17199145**
ISCJB III 30 02 21 25.6–.77 39.19N–.07 144.23E–.06 23 3.5b,3.7L
JMA III 30 02 21 26.0–.20 39.22N 144.19E 25 3.7,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=67.3km s-min=26.5km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.1km az=173.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC III 30 02 46 26.3–1.1 39.1N–.20 144.2E–.20 10 3.5b 10 5-89
ISCJB III 30 02 46 24.1–1.0 39.1N–.10 144.3E–.20 10 3.4b **¶17199149**
IDC III 30 02 46 24.9–1.2 39.13N 144.30E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.0km s-min=11.7km az=44.8.
IDC Error ellipse: s-maj=28.8km s-min=20.5km az=127.0.
IDC III 30 02 46 27.0–1.4 36.22N 143.44E 0 3.6,3.4b
¶17199150

IDC Error ellipse: s-maj=45.8km s-min=28.6km az=114.0.
ISC III 30 02 50 11.5–.40 38.01N–.03 143.60E–.03 24–2 5.0b,4.4s 929 2-154
NIED III 30 02 50 00 38.00N 143.50E 8 4.9W,4.4s **¶16391172**
ISCJB III 30 02 50 08.0–.73 37.95N–.02 143.56E–.02 11–4 4.9b,4.4s
IDC III 30 02 50 07.6–.40 37.91N 143.63E 0 4.8,4.7
GCMT III 30 02 50 10.4–.30 38.03N 143.54E 12 4.9W,4.7
NEIC III 30 02 50 10.4–1.6 37.94N 143.56E 16–10 5.0b,4.7
BJI III 30 02 50 10.1 38.17N 143.48E 18 5.1b,4.9b
JMA III 30 02 50 10.4–.20 38.03N 143.55E 45 4.8,4.9b
MOS III 30 02 50 13.4–.89 38.21N 143.51E 39 5.2b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ29.00000°,λ-117.00000°. NP2:ϕ_s223.00000°,δ64.00000°,λ-76.00000°. $M_0$2.14000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.0km az=166.1.
IDC Error ellipse: s-maj=13.3km s-min=10.6km az=112.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c43; s88,c139; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.41±.07 $M_{\theta\theta}$0.55±.07; $M_{\phi\phi}$1.86±.06; $M_{r\theta}$0.78±.24; $M_{\theta\phi}$1.15±.05; $M_{\phi r}$1.18±.22; Best double couple: NP1:ϕ_s212.00000°,δ60.00000°,λ-88.00000°. NP2:ϕ_s28.00000°,δ30.00000°,λ-93.00000°. Principal axes: T 2.9050,Plg15.0000°,Azm301.0000°; N -0.1150,Plg2.0000°,Azm31.0000° ; P -2.7880,Plg75.0000°,Azm127.0000° $M_0$2.84600×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=136.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=103.0.
ISC III 30 02 54 27.5–.58 37.19N–.08 142.29E–.06 9 4.0b 43 1-146
NIED III 30 02 54 00 37.20N 142.30E 8 4.0W **¶16475764**
IDC III 30 02 54 25.6–.84 37.08N 142.28E 0 4.2,4.0
ISCJB III 30 02 54 25.4–.45 37.09N–.05 142.35E–.04 9 4.0b,4.0
JMA III 30 02 54 26.0–.40 37.18N 142.27E 2–4 4.3,4.0
NEIC III 30 02 54 31.2–1.2 37.10N 142.19E 38–12 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ62.00000°,λ160.00000°. NP2:ϕ_s81.00000°,δ72.00000°,λ30.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=25.1km s-min=17.2km az=172.0.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=4.9km az=178.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.3km az=210.0.
JMA III 30 02 55 50.3–.20 38.30N 144.24E 39 4.2
¶602704379

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 30 03 35 25.1–.30 39.27N 144.61E 36 3.7
¶602704306

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 30 04 11 29.0–1.4 38.30N–.08 143.4E–.10 19 3.6b 22 2-90
NIED III 30 04 11 00 38.40N 143.30E 8 3.6W **¶17199153**
IDC III 30 04 11 25.0–2.4 38.07N 143.77E 0 3.8,3.6
JMA III 30 04 11 27.8–.30 38.39N 143.26E 4 3.5,3.6
ISCJB III 30 04 11 28.6–1.2 38.29N–.08 143.34E–.09 19 3.6b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ72.00000°,λ-11.00000°. NP2:ϕ_s335.00000°,δ79.00000°,λ-162.00000°. $M_0$2.75000×10^{14}
ISCJB Event type ke.
JMA III 30 04 24 02.3–.20 39.29N 143.51E 7 3.9
¶602704170

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 30 04 36 36.2–.40 37.65N 142.51E 0 3.5
¶602704159

JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA III 30 04 56 35.5–.20 38.03N 143.79E 0 3.6
¶602704137

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 30 05 29 55.2–.36 36.18N–.03 142.52E–.03 31–2 5.9s,5.5b 1485 1-165
NIED III 30 05 29 00 36.10N 142.50E 5 5.8W,5.5b **¶16391176**
IDC III 30 05 29 49.8–.40 36.02N 142.58E 0 5.7,5.6
BJI III 30 05 29 49.8 36.20N 142.55E 30 6.4s,6.2
ISCJB III 30 05 29 50.7–.55 36.12N–.02 142.51E–.01 12–3 5.9s,5.5b
NEIC III 30 05 29 52.5–.12 36.14N 142.46E 11 5.8,5.8W
JMA III 30 05 29 52.6–.20 36.12N 142.47E 80 6.3,5.8W
MOS III 30 05 29 54.9–.95 36.40N 142.43E 33 5.9s,5.7b
NEIC III 30 05 29 55.0–.00 36.13N 142.83E 30 5.9s,5.7b
GCMT III 30 05 29 56.5–.10 36.09N 142.63E 12 5.8W,5.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ36.00000°,λ89.00000°. NP2:ϕ_s33.00000°,δ54.00000°,λ90.00000°. $M_0$5.01000×10^{17}
IDC Error ellipse: s-maj=11.1km s-min=9.8km az=149.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.8km az=167.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=143.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tension Solution. s77 Moment tensor: Scale 10^{17}Nm; M_{rr}5.82 $M_{\theta\theta}$-2.70 $M_{\phi\phi}$-3.13 $M_{r\theta}$1.18 $M_{\theta\phi}$-3.05 $M_{\phi r}$2.73 Best double couple: NP1:ϕ_s232.00000°,δ33.00000°,λ105.00000°. NP2: ϕ_s34.00000°,δ58.00000°,λ81.00000°. Principal axes: T 6.6000,Plg75.0000°,Azm278.0000° ; N 0.0000,Plg8.0000°,Azm39.0000°; P -6.6000,Plg13.0000°,Azm131.0000° $M_0$6.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s279.00000°,δ41.00000°,λ131.00000°. NP2:ϕ_s50.00000°,δ60.00000°,λ60.00000°. Principal axes: T Plg62.0000°,Azm271.0000°; N Plg0.0000°,Azm0.0000°; P Plg10.0000° ,Azm161.0000°
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=111.1.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}3.47 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$-1.81 $M_{r\theta}$1.87 $M_{\theta\phi}$-1.06 $M_{\phi r}$2.53 Best double couple: NP1:ϕ_s39.00000° ,δ68.00000°,λ87.00000°. NP2:ϕ_s225.00000°,δ23.00000°,λ96.00000°. Principal axes: T 4.7900,Plg67.0000°,Azm303.0000°; N -0.6900,Plg2.0000°,Azm39.0000° ; P -4.1000,Plg22.0000°,Azm130.0000° $M_0$4.50000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c247; s141,c426;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}5.51±.03 $M_{\theta\theta}$-2.11±.03; $M_{\phi\phi}$-3.40±.04; $M_{r\theta}$-0.07±.09; $M_{\theta\phi}$-2.08±.03; $M_{\phi r}$0.86±.10; Best double couple: NP1:ϕ_s31.00000°,δ49.00000°,λ83.00000°. NP2:ϕ_s221.00000° ,δ42.00000°,λ98.00000°. Principal axes: T 5.6030,Plg84.0000°,Azm250.0000° ; N -0.6290,Plg5.0000°,Azm36.0000°; P -4.9730,Plg4.0000°,Azm126.0000° $M_0$5.28800×10^{17}
ISC III 30 06 02 15.9–.59 38.14N–.05 143.50E–.07 19 4.0b 51 2-76
ISCJB III 30 06 02 13.7–.41 38.04N–.04 143.54E–.05 19 4.0b **¶16475781**
IDC III 30 06 02 13.2–.61 38.12N 143.59E 0 4.1,4.1
NEIC III 30 06 02 15.5–4.7 38.11N 143.60E 16–29 4.2b,4.1
JMA III 30 06 02 16.6–.30 38.34N 143.36E 22 4.1,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.5km az=159.1.
IDC Error ellipse: s-maj=15.6km s-min=13.3km az=108.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.9km az=71.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 30 06 24 32.0–3.3 36.78N–.07 142.41E–.08 6–19 3.6b 24 1-92
IDC III 30 06 24 30.8–.91 36.69N 142.53E 0 3.7,3.5 **¶17199165**
JMA III 30 06 24 32.4–.30 36.71N 142.56E 38 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=20.6km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 06 37 47.3–.45 36.18N–.06 142.36E–.06 32–2 4.7b,4.4s 165 1-146
NIED III 30 06 37 00 36.20N 142.50E 8 4.7W,4.4s **¶17199167**
JMA III 30 06 37 42.3–.30 36.19N 142.55E 26 4.2,4.4s
IDC III 30 06 37 46.8–.45 36.09N 142.37E 34–2 4.3,4.3
BJI III 30 06 37 46.9 36.28N 142.05E 28 5.4b,5.3s
ISCJB III 30 06 37 46.2–.28 36.19N–.05 142.27E–.03 33 4.5b,4.5s
NEIC III 30 06 37 47.5–2.0 36.09N 142.33E 35–14 4.7b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ48.00000°,λ129.00000°. NP2:ϕ_s353.00000°,δ55.00000°,λ55.00000°. $M_0$1.31000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=11.7km s-min=10.4km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.7km az=170.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.9km az=176.0.
ISC III 30 07 08 33.4–2.0 36.19N–.06 142.5E–.10 35 3.6b 21 1-75
JMA III 30 07 08 30.6–.20 36.17N 142.54E 51 3.5 **¶600572550**
IDC III 30 07 08 45.8–4.1 36.57N 141.45E 75–35 3.8,3.8s
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=33.9km s-min=18.9km az=66.0.
ISC III 30 07 56 11.1–.69 38.36N–.06 144.05E–.07 14 3.8b 52 2-90
IDC III 30 07 56 08.4–.74 38.21N 144.12E 0 3.9,3.8 **¶17199176**
ISCJB III 30 07 56 09.9–.51 38.40N–.04 144.01E–.04 14 3.7b,3.8
JMA III 30 07 56 11.7–.20 38.38N 143.98E 33 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=18.3km s-min=16.2km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=163.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 30 08 06 48.4–1.3 36.13N–.06 142.5E–.10 18 3.6b 19 2-66
IDC III 30 08 06 45.1–2.3 36.07N 142.69E 0 3.6,3.6b **¶17199178**
ISCJB III 30 08 06 45.9–1.0 36.12N–.05 142.54E–.08 18 3.8s,3.5b
JMA III 30 08 06 46.6–.20 36.15N 142.62E 45 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=55.1km s-min=23.5km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.3km az=167.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 30 08 11 06.1–.20 38.37N 143.87E 21 3.5
¶602703970

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 30 08 17 02.1–3.4 37.95N–.05 143.89E–.10 2–15 3.5b 29 2-62
IDC III 30 08 17 00.6–1.2 38.33N 144.40E 0 3.7,3.4 **¶17199180**
JMA III 30 08 17 01.4–.30 37.88N 144.33E 25 4.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=24.5km az=131.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 30 08 55 44.3–.57 37.49N–.05 142.58E–.06 21 4.1b 44 1-89
JMA III 30 08 55 40.6–.30 37.50N 142.60E 0 4.3 **¶602703929**
IDC III 30 08 55 40.8–.64 37.41N 142.62E 0 4.7s,4.7
ISCJB III 30 08 55 42.4–.44 37.46N–.05 142.69E–.05 21 4.8s,4.1b
NEIC III 30 08 55 46.0–.52 37.42N 142.69E 35 4.0b,4.1b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=14.3km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.3km az=175.3.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.1km az=148.0.
ISC III 30 09 03 20.3–1.2 37.43N–.07 144.10E–.08 35 3.5b 27 2-58
IDC III 30 09 03 15.1–1.3 37.01N 144.44E 0 3.7,3.6 **¶17199183**
JMA III 30 09 03 20.6–.20 37.57N 143.98E 28 3.7,3.6
ISCJB III 30 09 03 20.8–1.0 37.59N–.05 144.04E–.07 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 30 09 04 31.5–1.3 38.4N–.20 143.93E–.10 14 3.6b 19 2-75
NIED III 30 09 04 00 38.40N 143.80E 5 3.7W **¶17199184**
IDC III 30 09 04 27.9–1.1 38.18N 144.11E 0 3.8,3.7b
ISCJB III 30 09 04 29.2–.89 38.3N–.10 143.99E–.07 14 3.5b,3.7b
JMA III 30 09 04 31.1–.30 38.40N 143.81E 10 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ30.00000°,λ-92.00000°. NP2:ϕ_s197.00000°,δ60.00000°,λ-89.00000°. $M_0$3.91000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=22.2km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=7.0km az=162.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 30 09 38 00.5–1.5 36.10N–.07 142.5E–.10 10 3.8b 18 2-60
IDC III 30 09 37 58.2–1.8 35.97N 142.66E 0 3.8,3.8b **¶17199189**
ISCJB III 30 09 37 59.6–1.2 36.11N–.05 142.5E–.10 10 3.7b,3.8b
JMA III 30 09 38 02.0–.40 36.18N 142.51E 61 3.4,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=47.3km s-min=20.1km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.7km az=171.8.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 30 10 17 03.2–1.7 37.41N–.06 143.7E–.10 35 3.8b 26 2-69
NIED III 30 10 17 00 37.50N 143.60E 8 3.6W **¶17199191**
JMA III 30 10 17 02.7–.30 37.46N 143.62E 42 3.7
ISCJB III 30 10 17 02.2–.98 37.39N–.05 143.65E–.07 33 3.7b,3.4s
IDC III 30 10 17 04.3–1.2 36.65N 143.49E 0 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ30.00000°,λ-102.00000°. NP2:ϕ_s202.00000°,δ61.00000°,λ-83.00000°. $M_0$2.76000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.0km az=164.7.
IDC Error ellipse: s-maj=30.5km s-min=26.5km az=93.0.

ISC III 30 11 12 09.9–1.6 34.1N–.20 143.3E–.20 35 3.2b 8 3-66
IDC III 30 11 12 05.5–2.6 34.15N 143.40E 0 3.5,3.4 ¶17199193
ISCJB III 30 11 12 07.9–1.6 34.1N–.20 143.3E–.20 33 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 30 11 12 39.7–1.1 35.7N–.20 143.8E–.20 35 3.7b 10 12-77
IDC III 30 11 12 34.3–1.1 35.65N 143.81E 0 3.8,3.7 ¶17199196
ISCJB III 30 11 12 37.3–1.0 35.7N–.20 143.8E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA III 30 12 14 54.9–.30 39.86N 143.57E 8–4 3.7
NIED III 30 12 14 00 39.90N 143.60E 23 3.5W ¶600572810
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S181.00000°,δ28.00000°,λ66.00000°. NP2:ϕ_S28.00000°,δ64.00000°,λ103.00000°. $M_0$2.08000×10^{14}
ISC III 30 12 26 44.8–.85 39.17N–.06 143.03E–.06 18 3.8b 27 1-73
NIED III 30 12 26 00 39.30N 143.20E 20 3.8W ¶17199198
JMA III 30 12 26 43.3–.20 39.34N 143.21E 12–3 3.9
ISCJB III 30 12 26 43.4–.61 39.26N–.06 143.24E–.06 18 3.8b
IDC III 30 12 26 50.9–3.0 39.20N 143.09E 70–27 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S141.00000°,δ16.00000°,λ7.00000°. NP2:ϕ_S45.00000°,δ88.00000°,λ106.00000°. $M_0$5.92000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.2km az=9.1.
IDC Error ellipse: s-maj=24.4km s-min=18.6km az=130.0.
JMA III 30 12 41 47.1–.40 37.81N 144.33E 40 3.5
¶602703508
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC III 30 13 09 46.8–.67 37.67N–.05 144.02E–.07 35 3.9b 63 2-76
IDC III 30 13 09 41.1–.65 37.54N 144.14E 0 4.0,3.9 ¶16475826
NEIC III 30 13 09 42.7–.34 37.56N 144.17E 10 4.5b,3.9
JMA III 30 13 09 44.2–.20 37.84N 143.79E 0 4.3,3.9
ISCJB III 30 13 09 44.4–.42 37.57N–.04 143.98E–.04 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
JMA III 30 13 23 27.8–.30 37.04N 143.49E 33 3.6
¶602703472
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 30 13 46 05.0–.63 38.52N–.05 144.72E–.07 29 3.8b 57 2-87
IDC III 30 13 46 00.7–.64 38.47N 144.90E 0 4.1,3.9 ¶16475831
NEIC III 30 13 46 02.3–.36 38.52N 144.86E 10 4.4b,3.9
JMA III 30 13 46 03.8–.30 38.58N 144.70E 43 4.0,3.9
ISCJB III 30 13 46 03.2–.42 38.51N–.04 144.69E–.04 29 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 30 14 50 01.7–2.8 37.02N–.06 143.47E–.07 24–20 3.8b 48 2-89
IDC III 30 14 49 57.5–.66 36.99N 143.68E 0 4.0,3.9 ¶16475839
NEIC III 30 14 49 59.8–3.7 36.93N 143.67E 16–23 4.4b,3.9
JMA III 30 14 50 02.0–.20 37.10N 143.31E 35 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.8km az=119.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.5km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 30 15 18 31.7–.63 35.94N–.08 142.49E–.08 18 3.7b 25 4-90
IDC III 30 15 18 29.1–.70 36.00N 142.49E 0 3.9,3.8 ¶16459648
ISCJB III 30 15 18 30.1–.51 35.98N–.06 142.41E–.09 18 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 30 16 01 06.0–1.4 38.32N–.06 144.2E–.10 29 3.4b 30 2-75
NIED III 30 16 01 00 38.30N 144.20E 5 3.6W ¶17199216
IDC III 30 16 01 00.8–2.2 38.30N 144.51E 0 3.7,3.7
ISCJB III 30 16 01 04.8–.91 38.28N–.05 144.19E–.07 29 3.5b,3.7
JMA III 30 16 01 06.1–.20 38.35N 144.16E 39 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S40.00000°,δ29.00000°,λ-83.00000°. NP2:ϕ_S213.00000°,δ62.00000°,λ-94.00000°. $M_0$3.02000×10^{14}
IDC Error ellipse: s-maj=53.1km s-min=31.2km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.7km az=41.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 30 16 27 37.3–1.4 40.26N–.08 143.4E–.10 16 10 1-60
NIED III 30 16 27 00 40.20N 143.40E 23 3.7W ¶17199217
IDC III 30 16 27 34.2–3.4 40.17N 143.80E 0 3.5,3.3
ISCJB III 30 16 27 35.9–1.3 40.14N–.08 143.5E–.10 16 3.2b,3.3
JMA III 30 16 27 36.7–.60 40.19N 143.35E 2–5 3.8,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S142.00000°,δ12.00000°,λ21.00000°. NP2:ϕ_S31.00000°,δ86.00000°,λ101.00000°. $M_0$3.58000×10^{14}
IDC Error ellipse: s-maj=77.1km s-min=43.2km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=9.0km az=28.9.
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
ISC III 30 16 42 31.2–.78 38.76N–.05 144.00E–.08 14 3.8b 42 2-87
IDC III 30 16 42 28.6–.85 38.64N 144.13E 0 3.9,3.7 ¶16459649
ISCJB III 30 16 42 29.7–.55 38.74N–.04 143.99E–.05 14 3.7b,3.7
JMA III 30 16 42 32.9–.20 38.76N 143.93E 45 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=17.3km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.2km az=138.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 30 16 53 10.2–3.5 37.67N–.05 142.04E–.06 6–21 3.8b 40 1-146
NIED III 30 16 53 00 37.70N 142.00E 11 3.7W ¶602703840
ISCJB III 30 16 53 09.7–1.3 37.66N–.04 142.12E–.07 15–8 3.9b
IDC III 30 16 53 09.4–.68 37.71N 142.17E 0 3.9,3.8
JMA III 30 16 53 12.5–.20 37.69N 141.96E 29–4 4.0,3.8
NEIC III 30 16 53 14.5–.30 37.68N 142.09E 35 4.5b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S159.00000°,δ43.00000°,λ-62.00000°. NP2:ϕ_S304.00000°,δ53.00000°,λ-113.00000°. $M_0$4.33000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.9km az=11.2.
IDC Error ellipse: s-maj=20.3km s-min=15.5km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.8km az=122.0.
ISC III 30 17 19 40.8–1.6 37.85N–.06 143.96E–.10 35 24 2-58
ISCJB III 30 17 19 39.6–.99 37.87N–.04 143.93E–.07 33 3.6b ¶17199218
IDC III 30 17 19 40.7–3.0 37.24N 143.99E 0 3.8,3.7
JMA III 30 17 19 41.8–.20 37.92N 143.84E 42 3.5,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.1km az=17.5.
IDC Error ellipse: s-maj=59.3km s-min=37.0km az=66.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 30 18 01 02.9–.97 37.53N–.06 144.21E–.08 35 3.9b 30 2-62
IDC III 30 18 00 57.5–.93 37.29N 144.40E 0 4.0,3.9 ¶16475853
ISCJB III 30 18 01 00.3–.66 37.41N–.05 144.15E–.05 33 3.9b,2.7s
JMA III 30 18 01 02.0–.20 37.59N 144.14E 38 4.3,2.7s
NEIC III 30 18 01 02.3–.68 37.22N 144.34E 35 4.5b,2.7s
ISC Event type se.
IDC Error ellipse: s-maj=29.1km s-min=17.2km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=6.0km az=9.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=12.1km az=108.0.
ISC III 30 18 11 57.6–.55 37.73N–.06 143.55E–.05 35 4.3b,3.5s 101 2-88
IDC III 30 18 11 52.2–.63 37.70N 143.56E 0 4.2,4.1 ¶16401542
JMA III 30 18 11 54.4–.50 37.75N 143.44E 30 4.2,4.1
NEIC III 30 18 11 54.6–2.8 37.71N 143.51E 14–17 4.6b,4.1
ISCJB III 30 18 11 55.7–.33 37.70N–.04 143.40E–.04 33 4.2b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 30 18 31 12.1–.92 36.02N–.05 142.02E–.08 23 3.6b 25 1-75
NIED III 30 18 31 00 36.10N 142.10E 17 3.7W ¶17199220
IDC III 30 18 31 08.4–1.1 36.06N 142.17E 0 3.7,3.7L
JMA III 30 18 31 09.2–.30 36.09N 142.11E 11 4.0,3.7L
ISCJB III 30 18 31 10.1–.69 36.07N–.05 142.13E–.07 23 3.5b,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S225.00000°,δ37.00000°,λ125.00000°. NP2:ϕ_S4.00000°,δ60.00000°,λ67.00000°. $M_0$4.59000×10^{14}
ISCJB Event type ke.
JMA III 30 18 54 27.8–.60 36.83N 144.14E 12 3.7
¶602703038
JMA Error ellipse: s-maj=4.4km s-min=4.5km az=-1.0.
ISC III 30 18 58 10.7–.75 39.42N–.09 143.78E–.09 10 4.2b,3.6s 44 3-75
ISCJB III 30 18 58 08.7–.58 39.39N–.06 143.80E–.09 10 4.1b,3.7s ¶16401543
IDC III 30 18 58 09.1–.75 39.39N 143.73E 0 4.0,3.9
NEIC III 30 18 58 11.2–3.1 39.45N 143.74E 12–18 4.4b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.9km az=30.9.
IDC Error ellipse: s-maj=19.4km s-min=14.9km az=110.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.4km az=117.0.
ISC III 30 19 27 12.7–2.9 38.26N–.06 144.42E–.05 27–21 3.9b,3.2s 51 2-149
IDC III 30 19 27 08.1–.67 38.08N 144.56E 0 4.1,4.1L ¶16475858
ISCJB III 30 19 27 11.8–1.5 38.29N–.04 144.40E–.04 33–11 3.8b,3.2s
JMA III 30 19 27 11.7–.20 38.27N 144.42E 45 4.2,3.2s
NEIC III 30 19 27 13.3–.48 38.11N 144.48E 35 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=14.8km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.6km az=174.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.4km az=159.0.
ISC III 30 19 31 31.6–1.4 36.39N–.10 143.5E–.10 35 3.4b 10 4-57
IDC III 30 19 31 25.9–2.8 36.51N 143.82E 0 3.8,3.8 ¶17199223
ISCJB III 30 19 31 30.4–1.4 36.23N–.09 143.4E–.10 33 3.6s,3.5b
ISC Event type ke.
ISCJB Event type ke.
JMA III 30 19 32 29.9–.40 37.54N 142.56E 0 3.5
¶602702979
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 30 19 58 18.8–1.2 36.4N–.20 143.4E–.10 35 3.8b 8 4-64
IDC III 30 19 58 13.4–1.1 36.40N 143.58E 0 3.8,3.5 ¶17199226
ISCJB III 30 19 58 16.6–1.0 36.4N–.20 143.4E–.10 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
JMA III 30 20 23 51.6–.30 37.67N 142.75E 0 3.5
¶602702926
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 30 21 05 18.5–.77 36.72N–.07 142.76E–.06 10 3.5b 26 2-77
NIED III 30 21 05 00 36.20N 142.40E 11 4.2W ¶16475863
ISCJB III 30 21 05 16.9–.69 36.67N–.07 143.00E–.07 10 3.5b
IDC III 30 21 05 17.7–.83 36.77N 142.73E 0 3.8,3.6
JMA III 30 21 05 35.5–.30 36.18N 142.38E 69 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S4.00000°,δ31.00000°,λ-109.00000°. NP2:ϕ_S207.00000°,δ61.00000°,λ-79.00000°. $M_0$2.31000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.1km az=141.4.
IDC Error ellipse: s-maj=25.3km s-min=20.7km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 30 21 05 35.3–.48 36.03N–.07 142.50E–.08 18 4.4b 72 4-146
IDC III 30 21 05 32.5–.56 36.07N 142.48E 0 4.3,4.1 ¶602702878
ISCJB III 30 21 05 33.6–.30 35.97N–.05 142.39E–.05 18 4.3b,2.7s
NEIC III 30 21 05 38.0–.26 36.08N 142.36E 35 4.6b,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=16.6km s-min=13.8km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.3km az=164.8.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.5km az=164.0.
ISC III 30 21 19 26.4–.52 35.78N–.05 143.34E–.06 35 4.4b,2.9s 104 2-146
NIED III 30 21 19 00 35.80N 143.20E 5 4.0W,2.9s ¶602702866
IDC III 30 21 19 21.0–.60 35.72N 143.51E 0 4.2,4.1
ISCJB III 30 21 19 24.4–.30 35.76N–.04 143.31E–.03 33 4.4b,3.1s
NEIC III 30 21 19 24.8–1.6 35.69N 143.47E 26–11 4.8b,3.1s
JMA III 30 21 19 25.3–.30 35.84N 143.23E 94 4.3,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S39.00000°,δ38.00000°,λ-77.00000°. NP2:ϕ_S203.00000°,δ53.00000°,λ-100.00000°. $M_0$1.33000×10^{15}
IDC Error ellipse: s-maj=16.9km s-min=13.9km az=144.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.2km az=170.2.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.3km az=149.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 30 21 24 51.1–.86 37.50N–.07 142.62E–.08 21 3.7b 29 1-79
JMA III 30 21 24 49.0–.30 37.46N 142.58E 13 4.2 ¶17199230
ISCJB III 30 21 24 49.0–.62 37.45N–.06 142.69E–.06 21 3.8b
IDC III 30 21 24 56.4–3.4 37.37N 142.62E 70–29 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.6km az=179.4.
IDC Error ellipse: s-maj=27.8km s-min=16.8km az=84.0.
ISC III 30 21 34 34.9–4.1 37.4N–.20 144.6E–.10 35 23 3-62
JMA III 30 21 34 34.3–.40 37.49N 144.18E 0 3.7 ¶602702855
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC III 30 21 42 10.5–2.6 36.19N–.04 142.55E–.05 11–16 4.1b 83 1-90
NIED III 30 21 42 00 36.30N 142.50E 14 3.9W ¶16475868
IDC III 30 21 42 09.8–.71 36.24N 142.49E 0 3.9,3.8L
ISCJB III 30 21 42 10.2–1.4 36.20N–.03 142.49E–.04 17–10 4.2b,2.9s
JMA III 30 21 42 12.0–.20 36.29N 142.51E 75 3.8,2.9s
NEIC III 30 21 42 14.6–.33 36.19N 142.45E 35 4.6b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S170.00000°,δ42.00000°,λ-56.00000°. NP2:ϕ_S308.00000°,δ56.00000°,λ-116.00000°. $M_0$8.17000×10^{14}
IDC Error ellipse: s-maj=19.8km s-min=16.1km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.8km az=137.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.7km az=150.0.
ISC III 30 22 36 58.1–2.0 37.84N–.05 142.50E–.06 9–11 3.9b 36 1-146
IDC III 30 22 36 56.8–.96 37.84N 142.60E 0 3.8,3.8b ¶17199234
JMA III 30 22 37 01.1–.20 37.90N 142.51E 40 4.2,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=23.6km s-min=18.2km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 30 22 46 18.5–.20 38.51N 144.51E 24 3.6
¶602703391
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA III 30 23 02 30.9–.30 37.92N 142.50E 23 3.5
¶602703363
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA III 30 23 32 36.9–.20 39.44N 143.73E 17 3.5
¶602703323
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 31 00 02 40.2–1.3 38.70N–.07 144.2E–.10 14 3.7b 25 2-63
IDC III 31 00 02 36.7–2.2 38.64N 144.52E 0 3.9L,3.7 ¶17199240
ISCJB III 31 00 02 38.8–.91 38.66N–.06 144.21E–.08 14 3.6b,3.7
JMA III 31 00 02 41.0–.10 38.70N 144.19E 40 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.2km s-min=23.8km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.3km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA III 31 00 26 15.7–.20 38.71N 144.21E 40 3.7
¶602706730
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 31 02 31 16.5–.53 37.23N–.04 144.01E–.04 25–3 4.9b,4.5s 405 2-150
ISCJB III 31 02 31 12.3–.00 37.18N–.03 143.98E–.03 6–6 4.8b,4.5s ¶16399887
IDC III 31 02 31 12.5–.49 37.15N 144.08E 0 4.7,4.6

JMA III 31 02 31 15.7–.20 37.28N 143.89E 57 4.7,4.6
NEIC III 31 02 31 15.4–1.8 37.17N 144.02E 18–11 4.9b,4.6
BJI III 31 02 31 16.3 37.53N 143.94E 25 5.3b,4.8b
MOS III 31 02 31 16.5–1.1 37.22N 143.98E 33 5.1b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=160.9.
IDC Error ellipse: s-maj=14.3km s-min=11.3km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=135.0.
MOS Error ellipse: s-maj=7.4km s-min=4.4km az=117.5.
ISC III 31 02 33 50.6–.74 37.32N–.09 143.87E–.07 35 4.1b 31 2-88
IDC III 31 02 33 44.7–.74 37.16N 144.05E 0 4.3,4.3s **¶16475888**
NEIC III 31 02 33 47.0–4.4 37.21N 144.05E 14–27 4.1b,4.3s
ISCJB III 31 02 33 48.6–.57 37.32N–.06 143.87E–.05 33 4.3s,4.0b
JMA III 31 02 33 48.3–.30 37.29N 143.86E 57 4.0,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=18.1km az=115.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=8.4km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.9km az=8.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 31 02 34 23.5–1.3 37.25N–.08 143.9E–.10 35 4.0b 20 2-75
IDC III 31 02 34 16.2–1.4 37.47N 144.59E 0 4.1,4.0 **¶17199248**
ISCJB III 31 02 34 21.5–.92 37.24N–.06 143.91E–.07 33 3.9b,4.0
JMA III 31 02 34 21.7–.30 37.26N 143.91E 48 4.1,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=45.5km s-min=21.4km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.7km az=37.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 31 03 15 53.5–2.4 37.47N–.07 142.6E–.10 41–20 3.8b 23 1-69
IDC III 31 03 15 46.4–1.6 37.50N 142.98E 0 3.9,3.9 **¶600573500**
JMA III 31 03 15 50.0–.20 37.39N 142.49E 18 4.2,3.9
ISCJB III 31 03 15 50.9–1.4 37.43N–.06 142.65E–.09 38–12 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 04 28 29.8–.88 36.13N–.07 143.28E–.08 35 3.5b 23 2-89
IDC III 31 04 28 24.3–.99 36.00N 143.46E 0 3.8,3.7L **¶17199251**
JMA III 31 04 28 26.3–.30 36.22N 143.28E 15 3.5,3.7L
ISCJB III 31 04 28 27.7–.71 36.13N–.06 143.31E–.06 33 3.4b,3.7L
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 04 50 52.5–33 38.06N 145.02E 0 4.0,3.8b
¶17199252
IDC Error ellipse: s-maj=710.9km s-min=55.9km az=16.0.
ISC III 31 05 02 59.1–.92 36.17N–.04 143.42E–.05 31–6 4.4b,3.3s 121 2-146
IDC III 31 05 02 53.7–.55 36.00N 143.48E 0 4.4,4.3 **¶16401552**
ISCJB III 31 05 02 55.5–1.1 36.15N–.03 143.32E–.03 17–8 4.4b,3.3s
JMA III 31 05 02 56.3–.20 36.13N 143.39E 57 4.5,3.3s
NEIC III 31 05 02 57.9–1.7 36.09N 143.45E 23–12 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=14.1km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.9km az=1.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.4km az=123.0.
JMA III 31 05 28 05.6–.20 37.32N 143.80E 53 3.9
¶602706038
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 31 05 34 12.8–1.3 37.72N–.07 143.87E–.09 35 3.7b 26 2-62
IDC III 31 05 34 07.9–2.4 37.62N 144.10E 0 3.9,3.9s **¶17199256**
JMA III 31 05 34 11.7–.30 37.72N 143.79E 41 3.4,3.9s
ISCJB III 31 05 34 11.2–.84 37.71N–.06 143.86E–.07 33 3.8s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 06 10 18.2–2.9 39.23N–.05 143.26E–.07 6–17 3.5b 35 1-59
IDC III 31 06 10 15.6–2.8 39.37N 143.72E 0 3.6,3.4 **¶17199259**
JMA III 31 06 10 18.9–.20 39.24N 143.24E 9–2 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=32.4km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC III 31 06 12 58.7–1.7 34.7N–.10 141.9E–.10 21 3.6b 11 1-55
ISCJB III 31 06 12 56.6–1.5 34.7N–.10 142.0E–.20 21 3.4b **¶17199260**
JMA III 31 06 12 57.9–.60 34.69N 141.89E 29–4 2.9
IDC III 31 06 13 02.4–3.5 33.93N 139.98E 0 3.4,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.4km s-min=13.3km az=136.3.
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=123.8km s-min=26.4km az=69.0.
IDC III 31 06 41 58.5–2.8 39.27N 143.01E 0 3.8,3.7b
¶17199263
IDC Error ellipse: s-maj=71.2km s-min=31.4km az=70.0.
IDC III 31 07 08 06.4–4.9 37.31N 142.92E 69–47 3.6,3.6
¶16475923
IDC Error ellipse: s-maj=39.8km s-min=17.6km az=108.0.
ISC III 31 07 09 05.2–.55 36.74N–.06 142.34E–.06 35 4.1b 54 1-146
NIED III 31 07 09 00 36.80N 142.30E 23 4.3W **¶17199268**
JMA III 31 07 09 03.4–.20 36.82N 142.33E 27 4.5
ISCJB III 31 07 09 04.0–.45 36.78N–.04 142.29E–.05 35 4.1b
NEIC III 31 07 09 05.8–2.6 36.86N 142.24E 32–18 4.5b
IDC III 31 07 09 06.0–.71 36.80N 142.13E 33–4 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ24.00000°,λ14.00000°. NP2:ϕ_s63.00000°,δ84.00000°,λ114.00000°. $M_0$3.24000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.3km az=33.8.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.5km az=135.0.
IDC Error ellipse: s-maj=16.4km s-min=13.9km az=3.0.
ISC III 31 07 46 52.7–4.0 37.76N–.07 142.14E–.09 14–25 3.5b 18 1-63
IDC III 31 07 46 49.9–1.3 37.72N 142.37E 0 4.1,4.1s **¶17199270**
JMA III 31 07 46 54.7–.10 37.77N 142.01E 22–3 3.9,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=27.9km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC III 31 07 54 49.6–.73 36.76N–.06 143.88E–.07 35 3.8b 32 3-89
ISCJB III 31 07 54 47.8–.63 36.68N–.05 143.85E–.05 33 3.7b **¶17199272**
IDC III 31 07 54 48.9–.92 36.57N 143.86E 32–6 3.8,3.8L
JMA III 31 07 54 49.5–.30 36.79N 143.83E 65 4.0,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.6km az=173.3.
IDC Error ellipse: s-maj=27.2km s-min=19.3km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 31 09 35 29.7–.87 36.8N–.10 143.5E–.10 35 3.6b 13 4-89
IDC III 31 09 35 24.8–.88 36.91N 143.56E 0 3.8,3.6 **¶17199279**
ISCJB III 31 09 35 27.5–.73 36.81N–.08 143.5E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 10 03 27.2–.82 36.35N–.06 142.84E–.08 29 3.5b 24 2-146
IDC III 31 10 03 22.4–.96 36.20N 143.04E 0 3.8,3.6 **¶17199281**
JMA III 31 10 03 24.7–.40 36.30N 142.82E 19 3.8,3.6
ISCJB III 31 10 03 25.9–.72 36.34N–.05 142.81E–.07 29 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 10 04 37.7–.57 40.37N–.04 143.36E–.04 12–2 4.7b,4.3s 243 1-116
NIED III 31 10 04 00 40.30N 143.40E 14 4.6W,4.3s **¶16399962**
IDC III 31 10 04 35.5–.52 40.32N 143.38E 0 4.5,4.4
JMA III 31 10 04 36.8–.30 40.32N 143.42E 13–4 4.6,4.4
ISCJB III 31 10 04 37.6–.81 40.33N–.03 143.39E–.04 21–5 4.6b,4.2s
BJI III 31 10 04 38.4 40.31N 143.24E 30 5.0b,4.8b
NEIC III 31 10 04 41.1–1.4 40.39N 143.29E 33–10 4.8b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ21.00000°,λ57.00000°. NP2:ϕ_s36.00000°,δ73.00000°,λ102.00000°. $M_0$8.47000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=11.7km az=117.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.2km az=41.8.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.0km az=126.0.
JMA III 31 10 36 22.3–.30 38.03N 144.16E 36 3.9
¶602705855
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC III 31 11 08 41.9–.84 36.72N–.05 143.67E–.08 35 3.5b 24 2-89
IDC III 31 11 08 36.7–.98 36.59N 143.91E 0 3.7,3.5L **¶17199290**
JMA III 31 11 08 39.2–.40 36.73N 143.55E 15 4.0,3.5L
ISCJB III 31 11 08 40.3–.69 36.73N–.05 143.63E–.05 33 3.4b,3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 11 36 23.3–.74 34.06N–.05 141.60E–.07 24 3.9b 28 1-148
NIED III 31 11 36 00 34.10N 141.70E 8 4.1W **¶16403108**
IDC III 31 11 36 20.9–.80 34.13N 141.72E 0 4.0,3.9
JMA III 31 11 36 21.6–.70 34.11N 141.69E 20–3 3.7,3.9
ISCJB III 31 11 36 22.1–.60 34.13N–.05 141.73E–.06 24 3.8b,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ29.00000°,λ102.00000°. NP2:ϕ_s10.00000°,δ62.00000°,λ83.00000°. $M_0$1.59000×10^{15}
ISCJB Event type ke.
ISC III 31 11 36 47.4–.94 39.84N–.06 144.41E–.06 25–5 4.2b 70 2-82
IDC III 31 11 36 43.4–.68 39.71N 144.41E 0 4.4,4.2 **¶16475950**
ISCJB III 31 11 36 45.5–1.4 39.89N–.03 144.31E–.05 21–10 4.2b,3.5s
JMA III 31 11 36 46.4–.20 39.88N 144.31E 40 4.3,3.5s
NEIC III 31 11 36 48.7–.46 39.77N 144.34E 35 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=14.5km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.6km az=41.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.7km az=133.0.
ISC III 31 11 57 05.6–1.1 35.77N–.05 143.40E–.09 35 3.5b 28 2-56
IDC III 31 11 57 00.8–1.4 35.63N 143.60E 0 3.8,3.8 **¶17199292**
ISCJB III 31 11 57 04.3–.85 35.79N–.05 143.36E–.06 33 3.6b,3.8
JMA III 31 11 57 05.1–.30 35.82N 143.32E 71 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=33.1km s-min=23.0km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.2km az=27.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA III 31 12 01 14.3–.30 37.71N 142.32E 7 3.5
¶602705700
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC III 31 12 01 42.4–.95 35.6N–.10 143.4E–.10 35 3.4b 10 4-90
IDC III 31 12 01 37.4–1.2 35.63N 143.53E 0 3.8,3.6 **¶17199293**
ISCJB III 31 12 01 40.3–.88 35.56N–.10 143.3E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA III 31 12 13 07.3–.40 36.60N 143.80E 56 3.5
¶602706328
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 31 12 14 26.6–.77 37.73N–.06 142.26E–.08 24 3.9b 29 1-82
NIED III 31 12 14 00 37.70N 142.30E 20 3.8W **¶16475955**
IDC III 31 12 14 22.8–.80 37.66N 142.37E 0 4.0,3.9
ISCJB III 31 12 14 24.5–.56 37.66N–.05 142.36E–.06 24 3.8b,3.3s
JMA III 31 12 14 24.7–.20 37.72N 142.27E 21 4.2,3.3s
NEIC III 31 12 14 28.0–.58 37.68N 142.44E 35 4.0b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ21.00000°,λ-130.00000°. NP2:ϕ_s217.00000°,δ74.00000°,λ-76.00000°. $M_0$5.73000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=15.3km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.2km az=144.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=7.5km az=141.0.
IDC III 31 13 04 02.1–3.6 36.47N 142.09E 0 3.6L,3.6
¶17199296
IDC Error ellipse: s-maj=89.0km s-min=39.2km az=49.0.
ISC III 31 13 40 09.2–2.1 37.4N–.10 142.2E–.10 24 3.4b 11 1-46
IDC III 31 13 39 55.6–12 36.76N 143.48E 0 3.7,3.7s **¶17199299**
JMA III 31 13 40 06.9–.30 37.42N 142.20E 7–3 3.6,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=513.1km s-min=129.5km az=55.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 31 13 44 19.0–1.2 36.2N–.20 143.8E–.20 35 4.0b,3.6s 8 13-73
IDC III 31 13 44 13.7–1.1 36.10N 143.85E 0 4.0,3.9 **¶17199300**
ISCJB III 31 13 44 16.6–.98 36.1N–.10 143.8E–.20 33 3.9b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 15 01 40.8–1.3 39.7N–.10 144.5E–.20 23 3.7b 9 6-68
IDC III 31 15 01 37.2–1.2 39.71N 144.52E 0 3.7,3.6 **¶17199303**
ISCJB III 31 15 01 38.7–.00 39.7N–.10 144.4E–.20 23 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 15 13 11.8–1.6 35.55N–.10 143.3E–.10 35 3.7b 9 4-60
IDC III 31 15 13 06.5–2.0 35.53N 143.54E 0 3.8,3.7 **¶17199304**
ISCJB III 31 15 13 09.9–1.2 35.51N–.08 143.2E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 15 38 26.7–14 36.95N 144.21E 0 3.6,3.6s
¶17199306
IDC Error ellipse: s-maj=318.0km s-min=49.9km az=26.0.
ISC III 31 15 53 07.3–1.3 37.05N–.06 143.93E–.09 35 3.6b 27 3-61
IDC III 31 15 53 02.7–1.4 36.86N 144.10E 0 3.7,3.6b **¶17199307**
ISCJB III 31 15 53 06.3–.86 37.00N–.05 143.84E–.06 33 3.5b,3.6b
JMA III 31 15 53 08.3–.30 37.03N 143.73E 57 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=40.8km s-min=23.9km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.9km az=148.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC III 31 15 55 05.0–.65 37.27N–.08 143.87E–.09 35 4.0b,3.0s 56 5-88
IDC III 31 15 54 59.3–.68 37.08N 144.21E 0 4.0,3.9 **¶16475973**
NEIC III 31 15 55 04.6–.28 37.13N 144.17E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=15.4km az=120.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.4km az=119.0.
IDC III 31 16 02 38.9–14 36.29N 142.79E 0 3.4b,3.3
¶17199308
IDC Error ellipse: s-maj=285.8km s-min=79.3km az=152.0.
IDC III 31 16 04 53.1–14 36.24N 142.73E 0 3.5b,3.4
¶17199309
IDC Error ellipse: s-maj=289.2km s-min=81.0km az=153.0.
ISC III 31 16 05 38.1–1.9 36.1N–.10 142.7E–.20 35 3.6b 7 4-47
IDC III 31 16 05 33.1–3.6 36.23N 142.82E 0 3.9,3.7 **¶17199312**
ISCJB III 31 16 05 35.9–1.6 36.11N–.08 142.7E–.20 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 16 07 19.5–.83 35.9N–.10 143.9E–.10 35 3.7b 13 4-145
IDC III 31 16 07 14.0–.79 35.85N 143.95E 0 3.9,3.7 **¶17199313**
ISCJB III 31 16 07 17.2–.76 35.91N–.09 143.9E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 16 09 23.4–.82 36.66N–.09 143.7E–.10 35 3.5b 15 4-77
IDC III 31 16 09 18.4–.82 36.76N 143.89E 0 3.8,3.7 **¶16459662**
ISCJB III 31 16 09 21.2–.70 36.73N–.08 143.8E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 16 20 02.2–1.5 37.5N–.10 142.6E–.10 21 3.5b 12 1-61
IDC III 31 16 19 58.0–2.3 37.49N 142.90E 0 3.5,3.5b **¶17199314**
JMA III 31 16 19 59.6–.50 37.39N 142.54E 0 3.7,3.5b
ISCJB III 31 16 19 59.8–1.1 37.38N–.08 142.74E–.10 21 3.4b,3.5b
ISC Event type ke.
ISCJB Event type ke.

ISC III 31 16 42 57.0–1.2 36.63N–.07 142.29E–.09 15 3.5b 13 1-57
NIED III 31 16 42 00 36.70N 142.40E 23 3.7W ¶602705092
IDC III 31 16 42 55.0–1.4 36.63N 142.40E 0 3.9,3.7
ISCJB III 31 16 42 54.8–1.1 36.55N–.07 142.5E–.10 15 3.5b,3.7
JMA III 31 16 42 55.1–.40 36.68N 142.41E 10 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ22.00000°,λ75.00000°. NP2:ϕ_s29.00000°,δ69.00000°,λ96.00000°. $M_0$3.38000×10^{14}
IDC Error ellipse: s-maj=33.3km s-min=25.6km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=9.3km az=9.2.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC III 31 16 46 29.6–.67 38.81N–.08 143.37E–.08 20 4.0b 51 1-75
NIED III 31 16 46 00 38.80N 143.40E 8 3.8W ¶16475985
IDC III 31 16 46 26.3–.71 38.80N 143.47E 0 4.0,3.9
ISCJB III 31 16 46 27.0–.47 38.77N–.05 143.56E–.06 20 4.0b,3.9
JMA III 31 16 46 28.8–.20 38.75N 143.40E 21 3.9,3.9
NEIC III 31 16 46 32.0–1.3 38.79N 143.39E 38–11 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s314.00000°,δ45.00000°,λ-86.00000°. NP2:ϕ_s127.00000°,δ45.00000°,λ-94.00000°. $M_0$6.27000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=14.7km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=6.7km az=37.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.2km az=85.0.
ISC III 31 17 05 07.4–1.1 36.31N–.04 142.68E–.08 15 3.5b 34 2-60
IDC III 31 17 05 04.6–1.6 36.31N 142.95E 0 3.6,3.6 ¶17199321
ISCJB III 31 17 05 06.4–.76 36.36N–.03 142.69E–.06 15 3.5b,3.6
JMA III 31 17 05 08.5–.30 36.31N 142.48E 11 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=20.1km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.9km az=2.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 31 17 10 03.8–.63 36.23N–.05 142.69E–.07 18 4.1b 59 2-126
NIED III 31 17 10 00 36.40N 142.50E 20 3.8W ¶16403115
IDC III 31 17 10 01.2–.73 36.23N 142.73E 0 4.0,3.9
ISCJB III 31 17 10 01.8–.43 36.20N–.04 142.75E–.05 18 4.0b,3.9
NEIC III 31 17 10 06.5–2.5 36.27N 142.67E 35–17 4.4b,3.9
JMA III 31 17 10 06.0–.20 36.39N 142.51E 69 3.7,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ25.00000°,λ17.00000°. NP2:ϕ_s43.00000°,δ83.00000°,λ114.00000°. $M_0$6.47000×10^{14}
IDC Error ellipse: s-maj=17.9km s-min=14.8km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=146.4.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.4km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA III 31 17 14 22.9–.20 38.53N 144.56E 28 3.7
NIED III 31 17 14 00 38.50N 144.60E 11 3.6W ¶600574199
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ25.00000°,λ-96.00000°. NP2:ϕ_s187.00000°,δ65.00000°,λ-87.00000°. $M_0$2.78000×10^{14}
ISC III 31 17 27 60.0–.59 36.28N–.07 144.03E–.07 35 4.0b 50 3-145
NIED III 31 17 27 00 36.50N 143.90E 8 4.1W ¶16459663
IDC III 31 17 27 54.8–.55 36.22N 144.24E 0 4.2,4.0
ISCJB III 31 17 27 58.2–.41 36.26N–.04 144.01E–.04 33 4.0b,3.9s
JMA III 31 17 27 59.9–.20 36.45N 143.92E 62 4.2,3.9s
NEIC III 31 17 27 60.0–.34 36.17N 144.14E 35 4.3b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ26.00000°,λ-109.00000°. NP2:ϕ_s212.00000°,δ65.00000°,λ-81.00000°. $M_0$1.54000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=13.2km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=160.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.5km az=147.0.
ISC III 31 17 31 25.5–.84 36.97N–.06 143.91E–.05 25–5 4.5b,3.8s 180 2-145
NIED III 31 17 31 00 37.00N 143.80E 5 4.5W,3.8s ¶16401571
IDC III 31 17 31 21.0–.50 36.80N 144.04E 0 4.5,4.4
ISCJB III 31 17 31 22.1–1.1 36.94N–.04 143.86E–.03 10–6 4.4b,3.6s
NEIC III 31 17 31 24.7–1.7 36.85N 144.01E 22–11 4.7b,3.6s
BJI III 31 17 31 25.8 37.31N 144.12E 44 4.9b,4.4b
JMA III 31 17 31 25.2–.30 36.95N 143.80E 54 4.9,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ26.00000°,λ-108.00000°. NP2:ϕ_s240.00000°,δ66.00000°,λ-81.00000°. $M_0$5.98000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=11.7km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.3km az=177.8.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.3km az=150.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC III 31 17 37 12.4–1.1 37.32N 142.41E 0 3.7,3.6
¶17199327
IDC Error ellipse: s-maj=36.2km s-min=22.5km az=75.0.
ISC III 31 17 45 43.8–1.1 36.40N–.06 143.55E–.10 35 3.6b 27 3-60
NIED III 31 17 45 00 36.50N 143.50E 26 3.6W ¶17199328
IDC III 31 17 45 38.5–1.1 36.30N 143.67E 0 3.8,3.7
ISCJB III 31 17 45 41.7–.78 36.39N–.04 143.54E–.08 33 3.7b,3.7
JMA III 31 17 45 43.0–.40 36.47N 143.50E 45 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s66.00000°,δ23.00000°,λ-25.00000°. NP2:ϕ_s179.00000°,δ80.00000°,λ-111.00000°. $M_0$3.04000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=19.7km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.2km az=175.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 31 17 54 32.8–1.5 36.36N–.05 143.50E–.10 35 3.5b 25 2-60
IDC III 31 17 54 30.1–2.2 36.02N 143.47E 0 3.7,3.6 ¶600574235
ISCJB III 31 17 54 32.1–.94 36.35N–.05 143.46E–.07 33 3.4b,2.6s
JMA III 31 17 54 33.4–.20 36.40N 143.41E 66 3.5,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=28.6km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.7km az=9.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 31 17 55 48.1–1.3 39.37N–.07 143.65E–.09 11 3.7b 26 1-60
IDC III 31 17 55 43.3–2.6 39.32N 144.28E 0 3.8,3.7 ¶17199330
ISCJB III 31 17 55 48.0–1.1 39.44N–.06 143.61E–.10 11 3.5b,3.7
JMA III 31 17 55 48.8–.30 39.43N 143.67E 31 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.8km s-min=25.9km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.6km az=33.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 31 17 59 44.7–.95 37.50N–.06 144.32E–.07 35 3.6b 33 3-144
NIED III 31 17 59 00 37.50N 144.10E 11 3.6W ¶17199331
IDC III 31 17 59 39.5–.90 37.19N 144.50E 0 4.0,3.8
ISCJB III 31 17 59 43.4–.79 37.52N–.05 144.27E–.05 33 3.6b,3.8
JMA III 31 17 59 44.6–.30 37.55N 144.14E 30 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ23.00000°,λ-92.00000°. NP2:ϕ_s223.00000°,δ67.00000°,λ-89.00000°. $M_0$3.34000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=21.2km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.2km az=177.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 31 18 37 30.9–.58 38.00N–.05 144.82E–.05 26 4.0b 54 3-87
NIED III 31 18 37 00 37.90N 144.70E 8 4.2W ¶16476005
IDC III 31 18 37 26.3–.62 37.78N 145.08E 0 4.2,4.1
ISCJB III 31 18 37 29.1–.42 37.86N–.04 144.80E–.04 26 4.0b,3.8s
JMA III 31 18 37 31.7–.40 37.93N 144.71E 62 4.7,3.8s
NEIC III 31 18 37 31.4–.38 37.73N 145.03E 35 4.0b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ26.00000°,λ-95.00000°. NP2:ϕ_s183.00000°,δ64.00000°,λ-87.00000°. $M_0$1.95000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=13.2km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.0km az=170.3.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.9km az=109.0.

ISC III 31 18 45 43.3–.92 37.92N–.05 144.87E–.07 26 3.6b 36 3-75
IDC III 31 18 45 39.7–.90 37.74N 145.18E 0 3.9,3.8L ¶17199337
ISCJB III 31 18 45 42.1–.67 37.94N–.04 144.79E–.05 26 3.6b,3.8L
JMA III 31 18 45 44.9–.30 37.98N 144.64E 29 4.2,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=18.5km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.5km az=10.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC III 31 18 55 38.6–1.1 36.79N–.07 143.79E–.09 35 3.4b 21 2-74
IDC III 31 18 55 34.1–1.0 36.59N 143.93E 0 3.7,3.6 ¶17199338
JMA III 31 18 55 35.2–.50 36.93N 143.83E 28 3.5,3.6
ISCJB III 31 18 55 37.3–.79 36.61N–.07 143.73E–.07 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 19 17 28.7–.59 37.94N–.07 144.24E–.06 35 4.2b 75 2-144
NIED III 31 19 17 00 37.90N 144.20E 5 4.1W ¶16403118
IDC III 31 19 17 23.2–.63 37.85N 144.34E 0 4.1,4.0
JMA III 31 19 17 26.6–.30 37.94N 144.18E 47 4.0,4.0
ISCJB III 31 19 17 26.7–.38 37.92N–.04 144.19E–.04 33 4.1b,3.0s
NEIC III 31 19 17 28.8–.39 37.95N 144.25E 35 4.4b,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ18.00000°,λ-70.00000°. NP2:ϕ_s149.00000°,δ73.00000°,λ-96.00000°. $M_0$1.67000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=13.4km az=142.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.2km az=166.1.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.5km az=150.0.
JMA III 31 19 27 40.6–.30 37.09N 142.65E 12 3.6
¶602704767
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC III 31 19 34 44.2–2.0 36.3N–.20 143.1E–.30 35 3.8b 7 4-56
IDC III 31 19 34 38.1–2.6 36.28N 143.40E 0 3.9,3.8 ¶16476011
ISC Event type ke.
IDC Error ellipse: s-maj=58.7km s-min=24.7km az=69.0.
ISC III 31 19 35 03.0–.39 37.72N–.03 142.31E–.03 24–2 5.2b,4.8s 686 1-160
NIED III 31 19 34 00 37.70N 142.40E 17 5.0W,4.8s ¶17199341
ISCJB III 31 19 34 59.5–.78 37.69N–.02 142.32E–.02 9–4 5.1b,4.8s
IDC III 31 19 34 59.0–.38 37.67N 142.37E 0 4.9,4.9
JMA III 31 19 34 59.4–.20 37.72N 142.42E 14–3 5.2,4.9
BJI III 31 19 35 00.1 37.66N 142.14E 16 5.3b,5.3b
NEIC III 31 19 35 03.9–1.1 37.70N 142.27E 30–7 5.2b,4.7s
MOS III 31 19 35 03.9–.86 37.96N 142.24E 33 5.4b,4.8s
GCMT III 31 19 35 03.9–.30 37.85N 142.35E 15–0 5.1W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ11.00000°,λ-144.00000°. NP2:ϕ_s201.00000°,δ83.00000°,λ-81.00000°. $M_0$3.48000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=163.3.
IDC Error ellipse: s-maj=12.4km s-min=10.2km az=88.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=3.6km s-min=2.4km az=134.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=100.9.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s68,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.62±.09 $M_{\theta\theta}$-0.65±.07; $M_{\phi\phi}$1.28±.05; $M_{r\theta}$3.15±.32; $M_{\theta\phi}$0.07±.05; $M_{\phi r}$5.40±.46; Best double couple: NP1:ϕ_s210.00000°,δ87.00000°,λ-83.00000°. NP2:ϕ_s325.00000°,δ8.00000°,λ-155.00000°. Principal axes: T 6.4620,Plg41.0000°,Azm293.0000°; N -0.2260,Plg7.0000°,Azm30.0000° ; P -6.2310,Plg48.0000°,Azm128.0000° $M_0$6.34600×10^{16}
ISC III 31 20 00 36.7–.95 37.79N–.05 143.92E–.08 35 3.5b 33 2-62
NIED III 31 20 00 00 37.90N 143.80E 8 3.7W ¶17199345
IDC III 31 20 00 31.7–.90 37.60N 144.17E 0 3.8,3.7
ISCJB III 31 20 00 34.4–.63 37.69N–.04 143.88E–.05 33 3.6b,3.7
JMA III 31 20 00 36.3–.20 37.90N 143.75E 21 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ26.00000°,λ-87.00000°. NP2:ϕ_s353.00000°,δ64.00000°,λ-92.00000°. $M_0$4.63000×10^{14}
IDC Error ellipse: s-maj=23.3km s-min=16.8km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.6km az=140.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 31 20 07 18.8–2.6 39.76N–.06 143.40E–.07 10–15 4.1b 43 1-73
NIED III 31 20 07 00 39.80N 143.50E 17 4.1W ¶602705497
JMA III 31 20 07 18.5–.20 39.77N 143.48E 22–4 4.3
IDC III 31 20 07 18.5–2.1 39.97N 143.30E 0 4.1,3.9
ISCJB III 31 20 07 19.3–1.8 39.76N–.05 143.46E–.06 26–13 4.0b,3.3s
NEIC III 31 20 07 27.1–4.0 40.10N 143.27E 60–23 4.6b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ20.00000°,λ56.00000°. NP2:ϕ_s44.00000°,δ73.00000°,λ102.00000°. $M_0$1.50000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=48.6km s-min=20.1km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.6km az=141.7.
NEIC Event type se. Error ellipse: s-maj=42.9km s-min=11.4km az=166.0.
ISC III 31 21 27 12.5–3.4 36.68N–.04 142.42E–.08 14–22 3.5b 28 1-75
NIED III 31 21 27 00 36.70N 142.40E 23 3.9W ¶17199354
IDC III 31 21 27 07.5–1.4 36.63N 143.10E 0 3.8,3.7
JMA III 31 21 27 15.0–.20 36.73N 142.39E 44 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ18.00000°,λ53.00000°. NP2:ϕ_s43.00000°,δ76.00000°,λ101.00000°. $M_0$6.69000×10^{14}
IDC Error ellipse: s-maj=31.2km s-min=29.0km az=51.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 31 21 34 26.2–4.2 37.78N–.06 144.15E–.06 17–26 4.2b,3.2s 65 2-88
IDC III 31 21 34 23.4–.62 37.67N 144.26E 0 4.2,4.1 ¶16476029
ISCJB III 31 21 34 25.9–1.5 37.81N–.04 144.07E–.04 25–11 4.1b,3.1s
JMA III 31 21 34 26.4–.20 37.88N 144.00E 23 4.2,3.1s
NEIC III 31 21 34 28.4–.43 37.68N 144.25E 35 4.5b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=13.0km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.1km az=170.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.0km az=136.0.
ISC III 31 21 39 32.2–1.0 37.87N–.06 144.58E–.07 35 3.8b 38 3-62
IDC III 31 21 39 27.7–1.3 37.87N 144.77E 0 3.8,3.6 ¶17199357
JMA III 31 21 39 30.2–.30 37.81N 144.56E 45 4.2,3.6
ISCJB III 31 21 39 30.4–.71 37.88N–.05 144.55E–.05 33 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 22 05 47.5–2.7 35.53N 144.02E 0 3.6,3.5
¶17199358
IDC Error ellipse: s-maj=59.3km s-min=33.8km az=70.0.
ISC III 31 22 20 18.8–.57 37.04N–.06 144.50E–.06 26 4.1b 60 3-88
NIED III 31 22 20 00 37.20N 144.40E 8 4.1W ¶16459666
IDC III 31 22 20 14.8–.66 37.01N 144.64E 0 4.3,4.1
NEIC III 31 22 20 15.8–2.8 37.05N 144.64E 7–17 4.2b,4.1
ISCJB III 31 22 20 17.1–.39 37.05N–.04 144.43E–.04 26 4.1b,4.1
JMA III 31 22 20 19.2–.40 37.22N 144.40E 56 4.7,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ33.00000°,λ-78.00000°. NP2:ϕ_s194.00000°,δ58.00000°,λ-98.00000°. $M_0$1.82000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=13.8km az=147.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.5km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=171.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC III 31 22 25 46.8–.44 37.83N–.04 143.43E–.04 23–2 4.8b,4.4s 495 2-154
NIED III 31 22 25 00 37.90N 143.40E 11 4.9W,4.4s ¶600574520
IDC III 31 22 25 43.4–.46 37.84N 143.49E 0 4.7,4.6
ISCJB III 31 22 25 44.2–.88 37.86N–.03 143.36E–.02 12–5 4.8b,4.3s
JMA III 31 22 25 46.1–.30 37.86N 143.40E 45 4.9,4.3s
MOS III 31 22 25 47.3–1.1 37.93N 143.35E 33 5.1b,4.4s
BJI III 31 22 25 47.6 37.93N 142.98E 25 5.1b,5.1b
NEIC III 31 22 25 49.0–.14 37.83N 143.36E 35 4.8b,5.1b

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ61.00000°,λ-4.00000°. NP2:ϕ_s155.00000°,δ86.00000°,λ-151.00000°. $M_0$2.29000×10^{16}
IDC Error ellipse: s-maj=12.7km s-min=10.6km az=144.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=157.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=105.3.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=146.0.
IDC III 31 23 11 00.4–10 35.22N 142.82E 0 3.7b,3.6
¶17199362
IDC Error ellipse: s-maj=268.4km s-min=99.1km az=178.0.
ISC III 31 23 21 17.6–.76 37.87N–.08 143.58E–.09 19 3.9b 26 2-87
IDC III 31 23 21 15.0–.74 37.84N 143.77E 0 4.0,3.9 **¶16476040**
ISCJB III 31 23 21 16.0–.52 37.84N–.05 143.63E–.07 19 3.9b,3.7s
JMA III 31 23 21 18.9–.10 37.97N 143.35E 18 4.3,3.7s
NEIC III 31 23 21 19.9–.50 37.83N 143.67E 35 4.1b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=15.1km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=7.6km az=23.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.3km az=119.0.
IDC IV 01 00 18 26.2–2.6 36.63N 144.00E 0 3.5,3.3
¶17199366
IDC Error ellipse: s-maj=74.9km s-min=26.5km az=176.0.
JMA IV 01 00 18 49.1–.30 38.57N 144.58E 44 3.7
¶603308242
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 01 00 37 08.5–.94 36.3N–.10 143.58E–.08 35 3.7b 19 2-89
NIED IV 01 00 37 00 36.40N 143.50E 5 3.7W **¶17199368**
IDC IV 01 00 37 03.0–1.0 36.29N 143.72E 0 3.8,3.6
ISCJB IV 01 00 37 06.5–.73 36.30N–.10 143.65E–.06 33 3.6b,2.5s
JMA IV 01 00 37 09.0–.20 36.37N 143.52E 62 3.8,2.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ20.00000°,λ-94.00000°. NP2:ϕ_s221.00000°,δ70.00000°,λ-88.00000°. $M_0$4.68000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=24.8km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=7.0km az=5.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 01 01 01 29.3–.73 36.13N–.09 143.7E–.10 10 4.0b 18 6-146
ISCJB IV 01 01 01 27.1–.65 36.04N–.07 143.6E–.20 10 4.0b,3.4s **¶16509609**
IDC IV 01 01 01 27.7–.80 35.98N 143.51E 0 4.1,3.9
NEIC IV 01 01 01 32.8–.60 36.08N 143.50E 35 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.3km s-min=10.2km az=171.7.
IDC Error ellipse: s-maj=26.2km s-min=19.9km az=79.0.
NEIC Event type se. Error ellipse: s-maj=22.3km s-min=11.3km az=90.0.
ISC IV 01 01 13 37.4–1.1 38.52N–.08 144.04E–.08 14 3.8b 18 2-118
NIED IV 01 01 13 00 38.70N 144.20E 5 3.7W **¶17199374**
IDC IV 01 01 13 37.4–1.2 38.34N 143.21E 0 3.8,3.7b
JMA IV 01 01 13 38.8–.20 38.72N 144.24E 31 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ30.00000°,λ-104.00000°. NP2:ϕ_s206.00000°,δ61.00000°,λ-82.00000°. $M_0$3.62000×10^{14}
IDC Error ellipse: s-maj=41.3km s-min=24.3km az=79.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 01 01 35 24.9–.53 36.98N–.05 144.57E–.07 26 4.3b,3.2s 77 3-153
NIED IV 01 01 35 00 36.90N 144.60E 5 4.2W,3.2s **¶16506142**
IDC IV 01 01 35 20.6–.59 36.79N 144.79E 0 4.3,4.2
JMA IV 01 01 35 21.9–.30 36.94N 144.56E 30 4.2,4.2
ISCJB IV 01 01 35 23.0–.37 36.95N–.04 144.51E–.04 26 4.2b,3.2s
NEIC IV 01 01 35 25.8–.35 36.84N 144.68E 35 4.4b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ15.00000°,λ-80.00000°. NP2:ϕ_s208.00000°,δ75.00000°,λ-93.00000°. $M_0$2.42000×10^{15}
IDC Error ellipse: s-maj=17.4km s-min=13.7km az=149.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=152.4.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.6km az=162.0.
ISC IV 01 01 45 17.3–.73 37.56N–.09 142.50E–.07 21 4.3b,3.4s 45 1-89
NIED IV 01 01 45 00 37.40N 142.40E 20 4.2W,3.4s **¶600574688**
ISCJB IV 01 01 45 14.5–.40 37.41N–.04 142.54E–.05 21 4.2b,3.4s
NEIC IV 01 01 45 14.5–3.2 37.37N 142.61E 11–20 4.4b,3.4s
JMA IV 01 01 45 15.0–.30 37.45N 142.38E 14 4.4,3.4s
IDC IV 01 01 45 19.6–2.1 37.37N 142.47E 46–20 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ20.00000°,λ-162.00000°. NP2:ϕ_s265.00000°,δ84.00000°,λ-71.00000°. $M_0$2.62000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.8km az=136.5.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.0km az=123.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=12.8km az=124.0.
ISC IV 01 01 54 24.4–.51 37.02N–.05 142.14E–.05 10 4.1b 72 1-146
ISCJB IV 01 01 54 22.5–.36 37.00N–.04 142.35E–.04 10 4.1b **¶16509603**
JMA IV 01 01 54 23.7–.30 36.99N 142.30E 18–4 4.2
MOS IV 01 01 54 26.0–1.1 37.05N 142.32E 35 4.3b
IDC IV 01 01 54 29.9–2.0 36.95N 142.17E 52–19 4.1,4.1L
NEIC IV 01 01 54 29.0–1.1 37.05N 142.25E 43–9 4.2b,4.1L
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.0km az=154.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=7.5km az=85.4.
IDC Error ellipse: s-maj=16.1km s-min=11.2km az=105.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.4km az=134.0.
ISC IV 01 02 55 58.8–1.0 39.25N–.05 144.34E–.06 14–6 4.3b,3.2s 103 2-145
BJI IV 01 02 55 54.9 39.42N 144.57E 7 4.9b,4.4b **¶16506145**
IDC IV 01 02 55 56.4–.72 39.15N 144.38E 0 4.2,4.1
MOS IV 01 02 55 58.8–1.2 39.25N 144.41E 30 4.6b,4.1
ISCJB IV 01 02 55 58.5–1.4 39.27N–.04 144.28E–.04 23–10 4.2b,3.2s
JMA IV 01 02 55 59.8–.20 39.33N 144.25E 35 4.4,3.2s
NEIC IV 01 02 55 60.0–2.0 39.20N 144.34E 21–14 4.4b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=14.5km az=154.0.
MOS Error ellipse: s-maj=9.7km s-min=6.5km az=97.1.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=153.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.6km az=119.0.
ISC IV 01 03 01 40.1–.98 37.98N–.08 144.28E–.08 35 3.7b 28 2-88
IDC IV 01 03 01 34.5–.98 37.79N 144.23E 0 3.9,3.7L **¶17199377**
ISCJB IV 01 03 01 38.4–.76 37.97N–.06 144.28E–.06 33 3.7b,3.7L
JMA IV 01 03 01 38.3–.20 38.07N 144.06E 4 4.2,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=24.0km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.2km az=17.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 01 03 04 30.3–.30 37.70N 144.36E 43 4.0
¶600574740
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 01 03 23 18.9–.41 37.64N–.03 143.36E–.03 25–2 4.9b,4.5s 535 2-154
NIED IV 01 03 23 00 37.70N 143.40E 14 4.7W,4.5s **¶16401595**
ISCJB IV 01 03 23 15.2–.80 37.64N–.02 143.34E–.02 9–5 4.9b,4.4s
IDC IV 01 03 23 15.2–.41 37.63N 143.42E 0 4.8,4.7
BJI IV 01 03 23 17.8 37.76N 143.20E 20 5.1b,5.0b
JMA IV 01 03 23 17.4–.20 37.66N 143.39E 45 4.9,5.0b
MOS IV 01 03 23 18.1–.93 37.70N 143.33E 28 5.1b,4.5s
NEIC IV 01 03 23 20.3–.38 37.62N 143.34E 33–2 4.9b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ27.00000°,λ-129.00000°. NP2:ϕ_s209.00000°,δ69.00000°,λ-72.00000°. $M_0$1.47000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.4km az=162.0.
IDC Error ellipse: s-maj=11.7km s-min=10.3km az=115.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.5km s-min=4.5km az=108.1.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.0km az=151.0.
ISC IV 01 04 22 52.1–.82 39.19N–.07 144.24E–.08 10 3.7b 34 2-75
IDC IV 01 04 22 49.9–1.1 39.03N 144.39E 0 3.9,3.8 **¶16506147**
ISCJB IV 01 04 22 50.7–.65 39.20N–.06 144.25E–.06 10 3.7b,3.1s
JMA IV 01 04 22 52.4–.10 39.22N 144.26E 30 3.8,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=27.1km s-min=19.0km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.6km az=157.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 01 04 28 26.3–1.9 37.76N–.10 143.4E–.10 10 3.5b 15 2-48
IDC IV 01 04 28 16.9–6.9 36.09N 144.54E 0 3.7L,3.6 **¶17199379**
JMA IV 01 04 28 26.9–.40 37.73N 143.44E 41 3.4,3.6
ISCJB IV 01 04 28 29.4–1.6 37.80N–.07 143.1E–.10 10 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 04 39 11.2–.90 37.58N–.08 144.75E–.08 35 3.5b 27 3-88
IDC IV 01 04 39 05.5–.85 37.32N 144.95E 0 3.8L,3.7 **¶17199382**
ISCJB IV 01 04 39 09.4–.72 37.55N–.07 144.72E–.05 33 3.5b,2.5s
JMA IV 01 04 39 10.3–.20 37.66N 144.63E 29 4.2,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=20.3km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.1km az=6.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 01 05 10 22.9–1.0 38.41N–.07 144.45E–.08 29 3.8b 34 2-69
IDC IV 01 05 10 17.6–1.3 38.30N 144.65E 0 3.7,3.7L **¶17199385**
ISCJB IV 01 05 10 21.5–.77 38.41N–.05 144.41E–.06 29 3.6b,3.7L
JMA IV 01 05 10 22.8–.20 38.41N 144.33E 34 4.2,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=23.7km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.1km az=168.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 01 05 27 46.0–.30 37.47N 142.61E 0 3.7
¶600574798
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 01 05 34 42.6–.91 38.0N–.20 143.8E–.10 35 3.7b 13 5-88
IDC IV 01 05 34 37.2–.74 38.00N 143.89E 0 4.0,3.8 **¶17199388**
ISCJB IV 01 05 34 40.4–.68 38.0N–.10 143.8E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 06 04 33.2–.65 34.93N–.04 141.69E–.04 32–3 4.6b,4.6s 262 1-148
NIED IV 01 06 04 00 34.90N 142.20E 14 4.9W,4.6s **¶16401601**
JMA IV 01 06 04 25.9–.30 34.86N 142.24E 44 4.4,4.6s
ISCJB IV 01 06 04 32.0–.83 34.89N–.03 141.60E–.03 33–5 4.6b,4.6s
MOS IV 01 06 04 31.7–1.2 35.02N 141.58E 30 5.0b,4.5s
BJI IV 01 06 04 33.0 34.95N 141.32E 31 5.0s,4.9b
IDC IV 01 06 04 33.3–3.5 34.88N 141.70E 33–27 4.3,4.3
NEIC IV 01 06 04 34.0–1.8 34.92N 141.57E 34–13 4.8b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ52.00000°,λ140.00000°. NP2:ϕ_s346.00000°,δ60.00000°,λ45.00000°. $M_0$2.56000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=152.7.
MOS Error ellipse: s-maj=9.3km s-min=5.2km az=122.2.
IDC Error ellipse: s-maj=14.8km s-min=12.8km az=93.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.1km az=142.0.
ISC IV 01 06 10 38.7–1.2 37.65N–.08 144.37E–.09 35 4.0b 24 3-62
IDC IV 01 06 10 33.3–1.2 37.46N 144.53E 0 4.1,4.0b **¶600574826**
ISCJB IV 01 06 10 37.0–.88 37.63N–.06 144.35E–.07 33 3.9b,2.7s
JMA IV 01 06 10 38.2–.30 37.69N 144.26E 37 4.0,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=25.9km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.0km az=24.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 01 06 42 50.9–.66 37.55N–.07 142.81E–.07 24 3.9b 46 1-145
NIED IV 01 06 42 00 37.50N 142.80E 11 3.8W **¶16485455**
ISCJB IV 01 06 42 49.0–.53 37.54N–.05 142.81E–.05 24 3.9b
IDC IV 01 06 42 49.5–.74 37.98N 142.79E 0 4.0,3.9
JMA IV 01 06 42 49.1–.20 37.50N 142.82E 39 3.9,3.9
NEIC IV 01 06 42 54.5–.52 37.91N 142.66E 35 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ41.00000°,λ-143.00000°. NP2:ϕ_s85.00000°,δ67.00000°,λ-55.00000°. $M_0$5.87000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.8km az=152.9.
IDC Error ellipse: s-maj=19.6km s-min=17.8km az=137.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=9.1km az=139.0.
ISC IV 01 06 44 07.5–3.6 37.56N–.05 142.84E–.07 1–22 4.3b 57 1-151
JMA IV 01 06 44 10.6–.20 37.58N 142.67E 14 4.3 **¶16485457**
NEIC IV 01 06 44 17.3–.85 37.52N 142.84E 79–7 4.3b
IDC IV 01 06 44 18.2–2.6 37.52N 142.83E 87–24 4.1,4.0
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.4km az=137.0.
IDC Error ellipse: s-maj=16.0km s-min=14.6km az=105.0.
ISC IV 01 07 21 25.5–.73 38.74N–.06 144.21E–.07 14 3.6b 34 2-145
ISCJB IV 01 07 21 24.0–.55 38.69N–.04 144.19E–.04 14 3.6b,3.4s **¶17199392**
IDC IV 01 07 21 23.2–.75 38.53N 144.46E 0 3.9,3.7
JMA IV 01 07 21 26.2–.20 38.75N 144.21E 40 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.7km az=161.6.
IDC Error ellipse: s-maj=21.4km s-min=17.1km az=139.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC IV 01 07 57 59.5–1.1 36.81N 144.26E 0 3.7,3.6
¶600574899
IDC Error ellipse: s-maj=28.8km s-min=20.2km az=89.0.
IDC IV 01 08 45 53.5–2.3 36.27N 143.52E 0 3.6,3.5
¶17199402
IDC Error ellipse: s-maj=57.7km s-min=24.9km az=62.0.
ISC IV 01 09 48 51.3–.58 37.05N–.04 143.42E–.04 25–3 4.7b,3.9s 302 2-145
NIED IV 01 09 48 00 37.10N 143.40E 5 4.6W,3.9s **¶16403134**
IDC IV 01 09 48 47.3–.48 36.97N 143.53E 0 4.4,4.4
NEIC IV 01 09 48 49.0–.13 36.97N 143.46E 10 4.8b,4.4
ISCJB IV 01 09 48 48.2–.96 37.03N–.03 143.33E–.02 14–5 4.6b,3.9s
JMA IV 01 09 48 49.4–.20 37.11N 143.36E 44 4.4,3.9s
MOS IV 01 09 48 50.8–1.0 37.00N 143.36E 35 4.9b,3.9s
BJI IV 01 09 48 50.0 37.28N 143.44E 29 4.9b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ23.00000°,λ-91.00000°. NP2:ϕ_s216.00000°,δ67.00000°,λ-89.00000°. $M_0$8.72000×10^{15}
IDC Error ellipse: s-maj=13.3km s-min=11.7km az=129.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=2.9km az=161.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=6.3km az=111.6.
ISC IV 01 09 57 36.0–.38 37.04N–.04 143.39E–.04 30–2 4.6b,4.0s 304 2-153
IDC IV 01 09 57 31.2–.46 36.99N 143.50E 0 4.4,4.4 **¶16402488**
JMA IV 01 09 57 33.6–.30 37.12N 143.32E 50 4.3,4.4
BJI IV 01 09 57 34.3 37.33N 143.51E 36 5.0b,4.6b
NEIC IV 01 09 57 35.0–1.4 36.97N 143.41E 23–9 4.8b,4.6b
MOS IV 01 09 57 36.4–1.0 37.35N 143.32E 33 4.8b,4.6b
ISCJB IV 01 09 57 36.3–.19 37.09N–.03 143.21E–.02 43 4.6b,4.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 01 10 56 47.7–1.7 37.36N–.09 142.4E–.10 21 3.6b 8 1-61
IDC IV 01 10 56 43.2–2.7 37.41N 143.58E 0 3.7,3.6b **¶17199408**
JMA IV 01 10 56 43.2–.30 37.34N 142.61E 10 4.0,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=73.1km s-min=26.7km az=59.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

ISC IV 01 11 05 31.1–.84 37.17N–.05 143.84E–.08 35 3.5b 30 2-88
IDC IV 01 11 05 26.1–.86 36.98N 144.21E 0 3.8L,3.7 ¶17199409
ISCJB IV 01 11 05 29.2–.61 37.13N–.04 143.83E–.06 33 3.5b,3.7
JMA IV 01 11 05 29.5–.30 37.20N 143.84E 46 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=18.1km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.0km az=40.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC IV 01 11 16 08.4–2.0 39.03N 143.86E 0 3.5,3.2
¶17199411
IDC Error ellipse: s-maj=76.7km s-min=33.2km az=138.0.
ISC IV 01 11 50 38.2–1.3 34.00N–.06 141.6E–.10 24 3.3b 20 1-77
JMA IV 01 11 50 31.5–.60 33.92N 141.94E 12–4 3.4 ¶17199414
IDC IV 01 11 50 35.5–1.1 34.13N 141.75E 0 3.5,3.4
ISCJB IV 01 11 50 36.9–.86 34.09N–.06 141.74E–.09 24 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 12 29 03.0–1.1 36.71N–.06 142.11E–.09 19 3.6b 17 1-57
IDC IV 01 12 29 00.4–1.3 36.67N 142.17E 0 3.7,3.6 ¶17199416
ISCJB IV 01 12 29 01.1–1.0 36.59N–.05 142.2E–.10 19 3.6b,3.6
JMA IV 01 12 29 02.7–.40 36.68N 142.08E 14–4 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.2km s-min=23.9km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=7.4km az=178.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 01 13 02 11.0–.56 38.09N–.05 144.58E–.06 35 4.2b 87 2-144
IDC IV 01 13 02 09.9–.57 37.91N 144.69E 28–3 4.0,3.9 ¶16403913
JMA IV 01 13 02 09.9–.30 38.12N 144.49E 48 4.7,3.9
ISCJB IV 01 13 02 10.4–.35 38.14N–.04 144.46E–.03 33 4.1b,3.9
NEIC IV 01 13 02 11.3–.32 37.93N 144.62E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=13.7km s-min=12.0km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=172.4.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.1km az=164.0.
ISC IV 01 13 10 22.6–1.2 37.83N–.08 144.08E–.09 35 4.0b 20 2-58
IDC IV 01 13 10 17.4–1.3 37.83N 144.30E 0 3.9,3.9 ¶17199421
ISCJB IV 01 13 10 21.1–.95 37.81N–.07 144.06E–.07 33 3.8b,3.9
JMA IV 01 13 10 22.4–.20 37.92N 143.95E 28 3.4,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=24.6km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=7.3km az=28.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA IV 01 13 32 41.5–.10 38.53N 144.34E 44 3.7
¶600575118
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 01 13 35 14.3–2.0 37.9N–.10 143.6E–.20 19 7 4-62
ISCJB IV 01 13 35 11.5–1.6 37.9N–.10 143.6E–.20 19 4.5b ¶600575121
IDC IV 01 13 35 11.3–2.5 37.89N 143.62E 0 4.4b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.5km s-min=14.5km az=167.3.
IDC Error ellipse: s-maj=54.1km s-min=29.2km az=60.0.
JMA IV 01 13 38 26.8–.20 37.16N 143.31E 41 3.7
¶600575123
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 14 05 08.8–1.8 37.13N–.08 143.3E–.10 35 3.7b 15 2-61
ISCJB IV 01 14 05 07.0–1.2 37.10N–.06 143.32E–.10 35 3.7b ¶17199427
JMA IV 01 14 05 07.6–.20 37.14N 143.28E 40 3.3
IDC IV 01 14 05 08.2–3.0 36.47N 143.14E 0 3.7,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.5km az=155.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=83.0km s-min=28.5km az=56.0.
ISC IV 01 14 19 21.1–1.2 37.03N–.05 143.93E–.09 35 3.5b 28 2-61
IDC IV 01 14 19 16.6–1.2 37.01N 144.07E 0 3.6,3.5 ¶17199428
ISCJB IV 01 14 19 19.8–.81 37.06N–.05 143.88E–.06 33 3.8b,3.5
JMA IV 01 14 19 20.9–.30 37.15N 143.80E 36 4.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=24.0km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.6km az=38.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 01 14 36 46.2–1.6 36.17N–.06 142.6E–.10 18 3.6b 19 2-47
IDC IV 01 14 36 43.3–5.6 36.09N 142.78E 0 3.6,3.6b ¶17199430
ISCJB IV 01 14 36 45.2–1.2 36.15N–.06 142.59E–.09 18 3.5b,3.6b
JMA IV 01 14 36 46.3–.20 36.20N 142.62E 69 3.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=97.7km s-min=42.1km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.0km az=157.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 01 14 37 19.3–3.5 35.96N 142.63E 0 3.6,3.4b
¶17199433
IDC Error ellipse: s-maj=98.2km s-min=29.2km az=56.0.
IDC IV 01 14 51 29.2–2.1 36.88N 143.83E 0 3.9,3.8
¶603308247
IDC Error ellipse: s-maj=43.6km s-min=28.9km az=64.0.
ISC IV 01 15 22 42.1–2.9 36.95N–.05 142.37E–.06 9–17 3.6b 41 1-90
IDC IV 01 15 22 40.8–.77 36.88N 142.41E 0 3.8,3.8L ¶16545141
JMA IV 01 15 22 40.7–.40 36.96N 142.40E 9 4.0,3.8L
ISCJB IV 01 15 22 42.1–1.6 36.92N–.03 142.42E–.05 22–13 3.7b,3.8L
NEIC IV 01 15 22 45.9–.70 36.91N 142.39E 35 4.5b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=15.8km az=118.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.8km az=20.7.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=10.1km az=154.0.
IDC IV 01 16 02 43.3–3.6 36.38N 144.62E 0 3.6L,3.5
¶17199440
IDC Error ellipse: s-maj=93.6km s-min=33.5km az=53.0.
ISC IV 01 16 13 25.7–.83 34.67N–.06 141.31E–.07 37–1 3.7b 30 0-79
JMA IV 01 16 13 20.2–.50 34.66N 141.66E 45–3 3.4 ¶16545142
ISCJB IV 01 16 13 23.6–.95 34.65N–.05 141.38E–.09 35–9 3.7b
NEIC IV 01 16 13 25.6–.39 34.62N 141.24E 35 4.7b
IDC IV 01 16 13 27.0–1.9 34.65N 141.22E 47–19 4.0L,3.7
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=3.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=7.2km az=165.1.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.6km az=66.0.
IDC Error ellipse: s-maj=19.2km s-min=12.9km az=98.0.
ISC IV 01 16 21 03.1–1.0 36.27N–.06 142.5E–.10 15 3.7b 18 2-75
ISCJB IV 01 16 21 01.9–.71 36.29N–.05 142.53E–.08 15 3.7b ¶17199441
IDC IV 01 16 21 01.9–.94 36.41N 142.51E 0 3.9,3.8
JMA IV 01 16 21 05.8–.30 36.42N 142.30E 69 3.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.5km az=178.4.
IDC Error ellipse: s-maj=28.3km s-min=17.0km az=81.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 01 16 34 29.1–.97 36.99N–.05 142.43E–.07 9 3.8b 30 1-69
NIED IV 01 16 34 00 37.00N 142.40E 8 3.7W ¶600575229
ISCJB IV 01 16 34 27.5–.69 36.96N–.04 142.46E–.05 9 3.7b
IDC IV 01 16 34 27.6–1.1 36.95N 142.59E 0 3.8,3.7
JMA IV 01 16 34 29.8–.30 37.03N 142.38E 19–4 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ31.00000°,λ-93.00000°. NP2:ϕ_s228.00000°,δ59.00000°,λ-88.00000°. $M_0$3.80000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.6km az=154.5.
IDC Error ellipse: s-maj=31.1km s-min=21.3km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 16 39 12.3–1.2 37.3N–.10 144.5E–.10 35 3.6b 10 5-61
IDC IV 01 16 39 07.0–1.2 37.33N 144.69E 0 3.8,3.7 ¶17199443
ISCJB IV 01 16 39 10.3–.98 37.19N–.10 144.5E–.10 33 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 16 45 15.3–.80 36.9N–.10 144.58E–.09 26 3.7b 16 5-88
IDC IV 01 16 45 11.7–.83 36.92N 144.72E 0 3.9,3.7 ¶17199444
ISCJB IV 01 16 45 13.7–.64 36.97N–.10 144.55E–.08 26 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA IV 01 16 58 43.6–.50 39.94N 143.39E 4–4 3.5
¶600575256
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 01 17 03 46.8–.34 40.34N–.03 143.33E–.03 27–2 5.4b,5.2s 1091 1-161
NIED IV 01 17 03 00 40.30N 143.50E 20 5.6W,5.2s ¶16403151
IDC IV 01 17 03 42.6–.41 40.24N 143.39E 0 5.1,5.1s
JMA IV 01 17 03 43.3–.40 40.30N 143.37E 3–3 5.5,5.1s
BJI IV 01 17 03 44.5 40.22N 143.13E 19 5.6b,5.6s
ISCJB IV 01 17 03 45.4–.56 40.33N–.02 143.25E–.02 23–3 5.3b,5.2s
NEIC IV 01 17 03 46.4–.46 40.28N 143.21E 20–3 5.5W,5.4b
MOS IV 01 17 03 46.7–1.0 40.41N 143.19E 29 5.6b,5.4s
GCMT IV 01 17 03 46.4–.10 40.27N 143.54E 22–0 5.6W,5.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ28.00000°,λ35.00000°. NP2:ϕ_s36.00000°,δ75.00000°,λ114.00000°. $M_0$2.54000×10^{17}
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=148.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=146.0. Recorded [3 JMA] in Aomori. Moment Tensor Solution. s53 Moment tensor: Scale 10^{17}Nm; M_{rr}0.88 $M_{\theta\theta}$0.20 $M_{\phi\phi}$-1.08 $M_{r\theta}$0.93 $M_{\theta\phi}$-0.15 $M_{\phi r}$1.55 Best double couple: NP1:ϕ_s163.00000°,δ18.00000°,λ47.00000°. NP2:ϕ_s28.00000°,δ77.00000°,λ103.00000°. Principal axes: T 2.0500,Plg56.0000°,Azm315.0000°; N 0.0400,Plg12.0000°,Azm205.0000°; P -2.0900,Plg31.0000°,Azm108.0000° $M_0$2.10000×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=106.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c172; s129,c302;Duration: 1τ5 Moment tensor: Scale 10^{17}Nm; M_{rr}1.95±.04 $M_{\theta\theta}$-0.10±.02; $M_{\phi\phi}$-1.85±.03; $M_{r\theta}$0.88±.05; $M_{\theta\phi}$-0.41±.02; $M_{\phi r}$2.09±.06; Best double couple: NP1:ϕ_s20.00000°,δ70.00000°,λ95.00000°. NP2:ϕ_s185.00000°,δ21.00000°,λ76.00000°. Principal axes: T 3.0090,Plg65.0000°,Azm299.0000°; N -0.0470,Plg5.0000°,Azm198.0000°; P -2.9650,Plg25.0000°,Azm106.0000° $M_0$2.98700×10^{17}
ISC IV 01 17 29 47.2–1.7 37.81N–.10 144.0E–.10 35 14 2-58
IDC IV 01 17 29 41.6–3.2 37.72N 144.22E 0 3.8,3.5 ¶17199448
ISCJB IV 01 17 29 45.6–1.3 37.75N–.09 144.0E–.10 33 3.6b,3.5
JMA IV 01 17 29 46.1–.30 37.95N 143.87E 14 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=75.6km s-min=37.6km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=9.6km az=41.0.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISC IV 01 18 20 03.6–1.0 37.78N–.06 143.98E–.09 35 3.5b 28 2-75
IDC IV 01 18 19 58.1–1.0 37.63N 144.32E 0 3.9,3.7 ¶17199452
ISCJB IV 01 18 20 01.2–.71 37.72N–.05 144.01E–.05 33 3.6b,3.7
JMA IV 01 18 20 02.2–.40 37.81N 143.90E 28 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=19.1km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.2km az=177.6.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC IV 01 18 34 12.6–.64 36.50N–.06 142.16E–.07 19 4.1b 51 1-80
NIED IV 01 18 34 00 36.60N 142.00E 5 3.8W ¶16532004
ISCJB IV 01 18 34 10.5–.42 36.48N–.04 142.22E–.06 19 4.1b
IDC IV 01 18 34 10.0–.93 36.52N 142.17E 0 4.0,3.9
JMA IV 01 18 34 12.9–.40 36.59N 141.97E 86 3.5,3.9
NEIC IV 01 18 34 12.1–2.3 36.48N 142.17E 15–14 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ25.00000°,λ39.00000°. NP2:ϕ_s6.00000°,δ75.00000°,λ109.00000°. $M_0$5.06000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.1km az=33.2.
IDC Error ellipse: s-maj=23.3km s-min=18.9km az=90.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=91.0.
ISC IV 01 18 41 43.5–.82 35.8N–.10 142.9E–.10 35 3.7b 12 4-90
IDC IV 01 18 41 38.4–.75 35.85N 142.97E 0 3.9,3.6 ¶17199454
ISCJB IV 01 18 41 41.6–.67 35.78N–.09 142.9E–.10 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 19 21 04.6–2.0 35.96N–.09 142.4E–.10 10 3.6b 11 1-47
IDC IV 01 19 21 01.4–5.5 35.99N 142.65E 0 3.6b,3.5 ¶17199456
JMA IV 01 19 21 25.1–.20 35.78N 141.03E 34–1 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=97.0km s-min=41.2km az=102.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 01 21 00 26.3–1.5 36.23N–.05 143.47E–.10 35 3.5b 27 2-60
IDC IV 01 21 00 24.7–2.4 35.95N 143.45E 0 3.6,3.5 ¶17199459
ISCJB IV 01 21 00 26.2–.87 36.21N–.05 143.34E–.07 33 3.5b,3.5
JMA IV 01 21 00 27.9–.20 36.33N 143.25E 79 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=58.1km s-min=25.2km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.7km az=8.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 01 21 19 42.4–.20 38.41N 144.24E 29 3.5
¶600575432
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 01 23 25 11.1–.20 38.04N 144.27E 32 3.5
¶600575535
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 02 00 03 20.4–.91 38.00N–.08 143.49E–.08 19 3.8b 25 2-81
NIED IV 02 00 03 00 38.10N 143.30E 5 3.9W ¶16512201
IDC IV 02 00 03 17.0–1.1 37.89N 143.68E 0 4.0,3.8
ISCJB IV 02 00 03 18.7–.65 37.98N–.07 143.53E–.06 19 3.8b,2.9s
JMA IV 02 00 03 19.5–.30 38.11N 143.34E 3 3.6,2.9s
NEIC IV 02 00 03 22.2–2.6 37.89N 143.62E 35–24 4.0b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ24.00000°,λ-108.00000°. NP2:ϕ_s231.00000°,δ67.00000°,λ-82.00000°. $M_0$7.29000×10^{14}
IDC Error ellipse: s-maj=29.1km s-min=20.3km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.6km az=6.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=14.6km az=104.0.
ISC IV 02 00 08 46.9–3.9 37.8N–.10 143.5E–.20 60–44 3.4b 22 2-58
NIED IV 02 00 08 00 37.90N 143.40E 8 3.5W ¶17199471
IDC IV 02 00 08 43.8–3.1 36.97N 143.79E 0 3.7,3.6b
ISCJB IV 02 00 08 46.8–1.6 37.85N–.06 143.4E–.10 82–22 3.5b,3.6b
JMA IV 02 00 08 47.0–.20 37.85N 143.39E 37 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ46.00000°,λ-117.00000°. NP2:ϕ_s204.00000°,δ50.00000°,λ-65.00000°. $M_0$2.00000×10^{14}
IDC Error ellipse: s-maj=78.5km s-min=35.4km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=9.9km az=12.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 02 01 32 35.2–.50 37.00N 142.37E 16 3.5
¶603438474
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC IV 02 01 36 59.9–.97 37.4N–.10 142.87E–.08 24 3.5b 14 2-79
JMA IV 02 01 36 56.6–.20 36.86N 142.93E 113 3.2 ¶17199480
IDC IV 02 01 36 56.3–1.1 37.50N 143.09E 0 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=31.6km s-min=23.2km az=168.0.
ISC IV 02 01 43 35.7–1.2 37.4N–.10 143.7E–.10 35 3.5b 12 4-61
IDC IV 02 01 43 30.6–1.1 37.38N 143.71E 0 3.8,3.7 ¶17199482
ISCJB IV 02 01 43 33.5–.92 37.4N–.10 143.62E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 02 02 04.9–.88 36.54N–.07 142.32E–.08 15 4.0b 31 1-90

NIED IV 02 02 02 00 36.50N 142.30E 11 3.8W ¶16506152
ISCJB IV 02 02 02 02.6–.59 36.40N–.06 142.43E–.07 15 4.0b
IDC IV 02 02 02 02.3–.84 36.38N 142.37E 0 4.0,3.9
NEIC IV 02 02 02 05.9–3.9 36.40N 142.31E 23–26 4.4b,3.9
JMA IV 02 02 02 05.0–.40 36.45N 142.32E 31 3.8,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ48.00000°,λ31.00000°. NP2:ϕ_s29.00000°,δ67.00000°,λ133.00000°. $M_0$6.03000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=7.8km az=160.0.
IDC Error ellipse: s-maj=22.8km s-min=18.8km az=85.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.5km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 02 02 09 29.8–1.6 38.1N–.20 143.5E–.20 35 3.6b 9 4-62
IDC IV 02 02 09 23.2–2.2 38.21N 143.82E 0 3.9,3.8 ¶17199485
ISCJB IV 02 02 09 27.0–1.2 38.1N–.10 143.6E–.20 33 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA IV 02 03 10 48.7–.30 38.13N 143.68E 0 3.7
¶600575672
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 02 03 11 53.9–.93 37.3N–.10 144.3E–.10 35 3.6b 10 5-73
IDC IV 02 03 11 49.1–.97 37.36N 144.46E 0 3.9,3.7 ¶17199487
ISCJB IV 02 03 11 51.7–.79 37.3N–.10 144.26E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 03 12 50.1–.76 38.34N–.08 143.91E–.07 14 3.7b 31 2-88
IDC IV 02 03 12 47.5–.79 38.23N 144.03E 0 3.9,3.7 ¶17199490
ISCJB IV 02 03 12 48.4–.58 38.31N–.06 143.91E–.04 14 3.7b,3.4s
JMA IV 02 03 12 51.7–.20 38.44N 143.80E 28 4.2,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=18.7km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.9km az=172.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 02 03 21 44.9–2.9 37.47N 142.62E 0 3.5,3.4b
¶17199492
IDC Error ellipse: s-maj=70.5km s-min=33.5km az=61.0.
ISC IV 02 03 25 47.7–.48 35.27N–.05 142.93E–.05 59 4.2b 60 2-146
IDC IV 02 03 25 41.1–.65 35.48N 142.97E 0 4.3,4.1 ¶17199493
JMA IV 02 03 25 43.2–.40 35.54N 143.02E 67 3.9,4.1
NEIC IV 02 03 25 45.9–.34 35.41N 142.95E 35 4.5b,4.1
ISCJB IV 02 03 25 46.8–.41 35.39N–.05 142.78E–.05 59 4.2b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 02 03 25 50.2–1.1 37.48N–.09 143.35E–.08 35 3.9b 20 2-74
IDC IV 02 03 25 41.0–.84 36.93N 142.91E 0 4.0,3.8 ¶16705239
ISCJB IV 02 03 25 48.4–.81 37.44N–.06 143.42E–.06 35 3.8b,3.3s
JMA IV 02 03 25 48.4–.30 37.44N 143.42E 45 3.9,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=33.7km s-min=18.1km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.8km az=3.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 03 34 33.0–.77 37.37N–.06 144.22E–.07 35 3.9b 43 3-73
IDC IV 02 03 34 27.4–.76 37.22N 144.42E 0 4.0,3.9 ¶16512202
ISCJB IV 02 03 34 31.2–.57 37.36N–.05 144.12E–.05 33 3.9b,3.9
JMA IV 02 03 34 32.9–.40 37.47N 143.99E 41 4.0,3.9
NEIC IV 02 03 34 32.8–.66 37.30N 144.31E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=15.7km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.3km az=156.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=10.2km az=148.0.
ISC IV 02 04 47 07.7–.56 36.07N–.05 143.30E–.06 35 4.1b 61 2-146
IDC IV 02 04 47 02.3–.66 36.01N 143.44E 0 4.2,4.1 ¶16506154
NEIC IV 02 04 47 04.8–2.9 36.06N 143.40E 14–18 4.5b,4.1
ISCJB IV 02 04 47 06.0–.36 36.10N–.04 143.27E–.03 33 4.1b,2.6s
JMA IV 02 04 47 06.9–.30 36.10N 143.23E 64 4.0,2.6s
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=14.9km az=145.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.6km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.9km az=168.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 02 04 55 25.6–1.6 37.5N–.20 143.6E–.10 35 3.8b 9 4-62
IDC IV 02 04 55 18.4–1.6 37.47N 144.05E 0 4.0,3.9 ¶17199497
ISCJB IV 02 04 55 22.5–1.1 37.4N–.10 143.7E–.10 33 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 04 57 59.3–1.1 37.8N–.20 144.8E–.20 26 3.5b 7 5-75
IDC IV 02 04 57 55.4–1.2 37.78N 144.84E 0 3.9,3.6 ¶17199498
ISCJB IV 02 04 57 57.3–1.1 37.7N–.20 144.8E–.20 26 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 05 00 54.6–3.2 36.09N–.06 143.30E–.05 28–23 4.3b 99 2-146
NIED IV 02 05 00 00 36.10N 143.40E 5 3.9W ¶16403921
IDC IV 02 05 00 49.7–.59 36.02N 143.45E 0 4.3,4.2
NEIC IV 02 05 00 52.0–2.0 36.07N 143.40E 11–12 4.5b,4.2
ISCJB IV 02 05 00 52.3–1.3 36.12N–.04 143.29E–.03 15–8 4.2b,4.0s
JMA IV 02 05 00 52.1–.20 36.10N 143.37E 63 4.1,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ36.00000°,λ-87.00000°. NP2:ϕ_s233.00000°,δ54.00000°,λ-93.00000°. $M_0$8.07000×10^{14}
IDC Error ellipse: s-maj=16.3km s-min=14.1km az=154.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=170.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 05 29 55.7–.87 39.63N–.08 143.54E–.09 11 4.0b 33 1-81
JMA IV 02 05 29 52.2–.30 39.59N 143.80E 18 4.2 ¶16499030
ISCJB IV 02 05 29 53.6–.70 39.59N–.08 143.65E–.08 11 3.9b
IDC IV 02 05 29 53.8–2.2 39.62N 143.54E 0 4.0,3.9
NEIC IV 02 05 29 56.6–4.6 39.73N 143.40E 14–28 4.3b,3.9
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=5.6km az=143.2.
IDC Error ellipse: s-maj=51.1km s-min=20.0km az=156.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=9.8km az=126.0.
ISC IV 02 05 51 25.0–.64 40.68N–.04 143.92E–.05 20–2 4.6b,4.1s 210 1-146
JMA IV 02 05 51 21.9–.30 40.62N 143.89E 7 4.4,4.1s ¶16403573
ISCJB IV 02 05 51 22.9–.91 40.67N–.03 143.87E–.04 16–6 4.5b,4.1s
IDC IV 02 05 51 22.1–.63 40.72N 143.82E 0 4.3,4.2
MOS IV 02 05 51 25.3–.95 40.69N 143.88E 34 4.9b,4.2
NEIC IV 02 05 51 27.3–1.5 40.69N 143.79E 33–10 4.6b,4.2
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.9km az=44.8.
IDC Error ellipse: s-maj=16.2km s-min=14.4km az=130.0.
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=105.8.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=135.0.
JMA IV 02 06 02 35.5–.20 38.22N 144.11E 46 3.6
¶600575763
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 02 06 16 03.2–1.5 36.11N–.05 142.00E–.09 18 3.6b 20 1-80
IDC IV 02 06 15 59.1–5.1 36.04N 142.33E 0 3.9s,3.9 ¶17199502
NIED IV 02 06 16 00 36.10N 142.20E 5 3.8W,3.9
JMA IV 02 06 16 01.4–.20 36.14N 142.18E 73 3.5,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=91.3km s-min=39.7km az=98.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ17.00000°,λ54.00000°. NP2:ϕ_s62.00000°,δ76.00000°,λ100.00000°. $M_0$6.09000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 06 34 28.0–1.1 36.9N–.10 143.3E–.10 35 3.8b 11 4-63
IDC IV 02 06 34 22.9–.92 36.79N 143.44E 0 4.0,3.8 ¶17199503
ISCJB IV 02 06 34 25.5–.80 36.8N–.10 143.3E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 06 39 25.7–.55 36.66N–.04 143.95E–.06 35 4.1b 66 3-145
NIED IV 02 06 39 00 36.70N 143.90E 5 4.0W ¶16499032
IDC IV 02 06 39 20.5–.59 36.57N 144.09E 0 4.1,4.0
NEIC IV 02 06 39 23.9–2.8 36.54N 144.07E 22–20 4.4b,4.0
ISCJB IV 02 06 39 24.0–.38 36.60N–.04 143.89E–.04 33 4.1b,4.0
JMA IV 02 06 39 24.9–.30 36.71N 143.85E 54 4.5,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ22.00000°,λ-77.00000°. NP2:ϕ_s191.00000°,δ68.00000°,λ-95.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=18.6km s-min=15.1km az=116.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.1km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.9km az=158.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 02 07 07 24.6–2.0 37.04N–.08 142.7E–.10 9 3.5b 20 2-47
IDC IV 02 07 07 20.9–11 36.91N 143.06E 0 3.4b,3.4 ¶17199506
JMA IV 02 07 07 24.3–.40 36.98N 142.82E 38 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=194.7km s-min=70.6km az=136.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 02 07 55 01.0–.60 37.34N–.06 143.90E–.07 35 3.9b 51 2-127
IDC IV 02 07 54 55.3–.67 37.20N 144.07E 0 4.0,3.9 ¶16499033
NEIC IV 02 07 54 57.4–3.8 37.22N 144.06E 14–23 4.2b,3.9
ISCJB IV 02 07 54 58.7–.42 37.29N–.04 143.87E–.05 33 3.9b,3.9s
JMA IV 02 07 55 00.3–.30 37.38N 143.75E 47 4.4,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=15.4km az=125.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.2km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.5km az=28.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 02 08 25 15.8–.89 37.34N–.06 143.97E–.08 35 4.2b 33 2-61
IDC IV 02 08 25 11.2–.91 37.14N 144.13E 0 4.1,4.1 ¶16499034
NEIC IV 02 08 25 12.4–.77 37.28N 144.06E 10 4.4b,4.1
ISCJB IV 02 08 25 13.8–.62 37.33N–.05 143.92E–.05 33 4.1b,4.1
JMA IV 02 08 25 14.6–.30 37.35N 143.86E 48 4.1,4.1
ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=16.5km az=111.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=13.0km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.9km az=176.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 02 08 42 44.1–.30 37.32N 144.03E 66 3.5
¶600575871
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 02 08 50 10.0–.40 37.71N 142.76E 0 3.8
¶600575873
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 02 08 59 52.9–1.1 36.79N–.07 143.12E–.09 29 3.5b 22 2-72
NIED IV 02 08 59 00 36.80N 143.00E 5 3.8W ¶602945402
IDC IV 02 08 59 48.3–1.2 36.67N 143.24E 0 3.8,3.6
ISCJB IV 02 08 59 51.1–.84 36.79N–.04 143.14E–.06 29 3.5b,3.6
JMA IV 02 08 59 53.0–.20 36.78N 143.04E 50 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ28.00000°,λ-96.00000°. NP2:ϕ_s230.00000°,δ62.00000°,λ-87.00000°. $M_0$4.78000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=24.2km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.2km az=161.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 02 09 13 40.5–.40 37.12N 142.50E 12 3.6
¶600575890
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 02 09 49 29.6–.50 37.22N–.04 144.16E–.06 35 4.6b,3.5s 160 3-145
NIED IV 02 09 49 00 37.20N 144.00E 5 4.3W,3.5s ¶16403644
IDC IV 02 09 49 23.6–.57 37.03N 144.36E 0 4.4,4.2
ISCJB IV 02 09 49 28.2–.24 37.18N–.03 144.04E–.03 33 4.5b,3.5s
JMA IV 02 09 49 28.3–.30 37.24N 144.03E 57 4.5,3.5s
NEIC IV 02 09 49 30.0–.69 37.12N 144.19E 37–6 4.7b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s61.00000°,δ32.00000°,λ-90.00000°. NP2:ϕ_s241.00000°,δ58.00000°,λ-90.00000°. $M_0$3.27000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=13.1km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=162.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.6km az=146.0.
JMA IV 02 10 03 40.7–.40 37.52N 142.53E 0 3.5
¶600575921
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 02 10 41 10.2–.30 37.50N 144.04E 40 3.5
¶600575948
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 02 11 24 07.3–.57 36.96N–.07 144.29E–.07 26 4.1b 47 5-88
IDC IV 02 11 24 03.7–.63 37.06N 144.32E 0 4.1,4.0 ¶16509615
ISCJB IV 02 11 24 05.3–.41 36.97N–.05 144.25E–.05 26 4.1b,4.0s
NEIC IV 02 11 24 08.7–.40 37.05N 144.25E 35 4.6b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=13.6km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=140.5.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.7km az=127.0.
JMA IV 02 12 11 17.0–.30 37.09N 142.28E 26–5 3.7
¶600575994
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 02 12 47 47.2–.30 39.55N 144.70E 25 3.6
¶600576011
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC IV 02 13 06 53.4–1.6 36.40N–.04 142.5E–.10 15 19 2-45
ISCJB IV 02 13 06 51.9–1.4 36.43N–.04 142.6E–.10 15 3.5b ¶17199527
IDC IV 02 13 06 52.4–5.8 36.39N 142.47E 0 3.7,3.7b
JMA IV 02 13 06 52.6–.30 36.42N 142.66E 39 3.5,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=5.4km az=6.5.
IDC Error ellipse: s-maj=98.4km s-min=42.2km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 02 13 49 19.9–1.8 39.10N–.04 143.14E–.06 3–11 4.2b,3.3s 50 1-88
NIED IV 02 13 49 00 39.20N 143.10E 14 4.0W,3.3s ¶16506156
IDC IV 02 13 49 19.8–.64 39.14N 143.08E 0 4.2,4.0
JMA IV 02 13 49 22.1–.20 39.23N 143.11E 12–3 4.3,4.0
NEIC IV 02 13 49 24.7–.46 39.11N 143.22E 35 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ53.00000°,λ-176.00000°. NP2:ϕ_s89.00000°,δ87.00000°,λ-37.00000°. $M_0$9.75000×10^{14}
IDC Error ellipse: s-maj=19.6km s-min=14.1km az=107.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.8km az=114.0.
IDC IV 02 14 09 42.3–9.6 36.34N 144.12E 0 3.5,3.4b
¶17199529
IDC Error ellipse: s-maj=211.1km s-min=47.3km az=33.0.
ISC IV 02 14 10 18.3–1.2 36.76N–.09 143.7E–.10 35 3.5b 13 4-70
IDC IV 02 14 10 12.6–1.3 36.84N 144.00E 0 3.7,3.6 ¶17199532
ISCJB IV 02 14 10 16.1–.87 36.74N–.07 143.68E–.08 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 02 14 17 50.5–.30 39.69N 143.84E 3–4 3.7
¶16577631
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 02 14 18 03.2–.70 37.97N–.06 143.54E–.08 19 3.8b 42 2-73
IDC IV 02 14 18 00.8–.80 37.97N 143.56E 0 4.1L,3.9 ¶600576090
ISCJB IV 02 14 18 01.4–.51 37.97N–.04 143.62E–.05 19 3.8b,3.9
JMA IV 02 14 18 04.4–.20 38.18N 143.49E 30 3.9,3.9
NEIC IV 02 14 18 05.8–.53 37.99N 143.59E 35 4.2b,3.9
ISC Event type se.

IDC Error ellipse: s-maj=24.4km s-min=16.6km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.8km az=176.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.6km az=102.0.
IDC IV 02 14 48 05.9–4.2 36.84N 143.46E 0 3.8,3.7
¶17199538

IDC Error ellipse: s-maj=74.9km s-min=44.5km az=29.0.
ISC IV 02 15 02 49.4–.58 39.13N–.04 143.14E–.04 29–3 4.7b,4.1s 364 1-154
NIED IV 02 15 02 00 39.10N 143.20E 14 4.5W,4.1s **¶16403928**
JMA IV 02 15 02 46.5–.20 39.08N 143.25E 14–3 4.8,4.1s
ISCJB IV 02 15 02 47.4–.87 39.06N–.03 143.21E–.03 28–6 4.7b,4.1s
BJI IV 02 15 02 48.6 39.08N 143.01E 35 4.9b,4.9b
MOS IV 02 15 02 49.0–.98 39.16N 143.09E 34 4.9b,4.2s
NEIC IV 02 15 02 50.1–.80 39.14N 143.07E 35–5 4.7b,4.2s
IDC IV 02 15 02 50.8–2.1 39.06N 143.15E 41–18 4.5,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S49.00000°,δ46.00000°,λ-151.00000°. NP2:ϕ_S298.00000°,δ69.00000°,λ-48.00000°. $M_0$7.32000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=147.6.
MOS Error ellipse: s-maj=8.1km s-min=4.9km az=105.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.9km az=145.0.
IDC Error ellipse: s-maj=12.4km s-min=10.3km az=106.0.
ISC IV 02 15 05 04.0–.53 34.44N–.06 141.38E–.09 27 4.1b 34 2-148
IDC IV 02 15 05 00.3–.67 34.54N 141.32E 0 4.2,4.2L **¶16506158**
ISCJB IV 02 15 05 01.8–.40 34.36N–.04 141.35E–.09 27 4.1b,3.8s
NEIC IV 02 15 05 05.1–.44 34.43N 141.25E 35 4.6b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=17.2km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=5.8km az=169.2.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.3km az=82.0.
ISC IV 02 15 21 47.2–.49 37.86N–.05 143.51E–.04 34–1 4.6b,4.1s 237 2-145
IDC IV 02 15 21 42.8–.59 37.88N 143.45E 0 4.3,4.2 **¶16403929**
ISCJB IV 02 15 21 43.7–.86 37.89N–.03 143.42E–.03 17–6 4.5b,3.9s
JMA IV 02 15 21 44.9–.30 37.99N 143.45E 40 4.7,3.9s
BJI IV 02 15 21 45.4 38.12N 143.54E 38 5.0b,4.6b
MOS IV 02 15 21 45.9–1.4 38.03N 143.44E 30 5.0b,4.6b
NEIC IV 02 15 21 48.1–.29 37.92N 143.35E 35 4.8b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=12.4km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=101.4.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=147.0.
ISC IV 02 15 53 06.3–.64 37.27N–.07 143.66E–.08 35 3.6b 28 4-76
IDC IV 02 15 53 02.1–.74 37.49N 143.62E 0 4.0L,3.9 **¶16577634**
ISCJB IV 02 15 53 04.2–.51 37.28N–.05 143.63E–.07 33 3.7b,3.9
NEIC IV 02 15 53 06.8–.53 37.39N 143.57E 35 4.6b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=14.9km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.0km az=137.7.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=9.1km az=126.0.
ISC IV 02 16 03 30.3–.67 37.22N–.05 144.06E–.07 35 3.8b 39 2-84
NIED IV 02 16 03 00 37.30N 143.80E 53 3.7W **¶17199547**
IDC IV 02 16 03 24.6–.71 37.14N 144.37E 0 3.9,3.8
JMA IV 02 16 03 27.7–.80 37.30N 143.84E 16 4.0,3.8
ISCJB IV 02 16 03 28.2–.52 37.20N–.04 143.97E–.05 33 3.7b,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S342.00000°,δ45.00000°,λ138.00000°. NP2:ϕ_S104.00000°,δ62.00000°,λ53.00000°. $M_0$4.52000×10^{14}
ISCJB Event type ke.
ISC IV 02 16 25 20.0–.86 36.19N–.04 143.45E–.08 35 3.7b 40 2-97
NIED IV 02 16 25 00 36.20N 143.40E 8 3.8W **¶16577635**
IDC IV 02 16 25 15.0–.88 36.06N 143.62E 0 3.9,3.8
ISCJB IV 02 16 25 18.5–.60 36.21N–.03 143.40E–.05 33 4.3s,3.7b
JMA IV 02 16 25 19.4–.30 36.24N 143.35E 69 3.8,3.7b
NEIC IV 02 16 25 19.9–.68 35.93N 143.52E 35 4.2b,3.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S23.00000°,δ36.00000°,λ-82.00000°. NP2:ϕ_S194.00000°,δ55.00000°,λ-96.00000°. $M_0$5.12000×10^{14}
IDC Error ellipse: s-maj=25.7km s-min=17.2km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.9km az=6.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=12.1km az=72.0.
ISC IV 02 17 35 50.4–1.9 33.55N–.05 141.17E–.07 29–13 4.0b,3.3s 38 1-149
NIED IV 02 17 35 00 33.70N 141.10E 47 4.1W,3.3s **¶17199554**
JMA IV 02 17 35 52.6–.10 33.68N 141.05E 44 3.8,3.3s
IDC IV 02 17 35 53.3–2.3 33.56N 141.04E 51–19 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S334.00000°,δ40.00000°,λ65.00000°. NP2:ϕ_S185.00000°,δ54.00000°,λ109.00000°. $M_0$1.62000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=19.7km s-min=13.8km az=77.0.
JMA IV 02 17 40 15.5–.20 37.50N 142.65E 0 3.9
¶600576176

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 17 41 51.2–1.2 36.7N–.10 143.3E–.10 35 3.7b 9 4-61
IDC IV 02 17 41 45.4–1.1 36.77N 143.67E 0 3.8,3.7 **¶17199555**
ISCJB IV 02 17 41 48.2–.90 36.73N–.09 143.35E–.09 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 17 51 49.6–1.2 37.68N–.06 142.70E–.08 24 3.7b 21 1-69
NIED IV 02 17 51 00 37.70N 142.60E 32 3.6W **¶17199556**
IDC IV 02 17 51 44.8–1.9 37.74N 143.12E 0 3.8,3.7
ISCJB IV 02 17 51 47.8–.90 37.70N–.07 142.82E–.08 24 3.6b,3.7
JMA IV 02 17 51 47.5–.30 37.70N 142.62E 0 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S339.00000°,δ88.00000°,λ178.00000°. NP2:ϕ_S69.00000°,δ88.00000°,λ2.00000°. $M_0$2.64000×10^{14}
IDC Error ellipse: s-maj=47.5km s-min=23.5km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.5km az=160.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 02 17 56 03.6–1.2 38.16N–.10 143.7E–.20 35 3.9b 30 4-69
IDC IV 02 17 55 58.3–1.4 38.18N 143.85E 0 3.9,3.8 **¶16536006**
ISCJB IV 02 17 56 01.5–.81 38.09N–.06 143.7E–.10 33 3.9b,3.8
NEIC IV 02 17 56 03.5–.61 38.16N 143.73E 35 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=38.6km s-min=18.4km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=9.1km az=173.8.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.6km az=91.0.
ISC IV 02 18 07 21.2–1.7 35.7N–.10 143.4E–.20 35 3.4b 7 4-128
IDC IV 02 18 07 15.9–2.2 35.67N 143.39E 0 3.6,3.5 **¶17199557**
ISC Event type ke.
IDC Error ellipse: s-maj=45.7km s-min=27.4km az=66.0.
ISC IV 02 18 37 30.0–1.3 38.3N–.10 143.5E–.20 19 4.0b 13 5-74
ISCJB IV 02 18 37 28.1–.90 38.2N–.10 143.4E–.10 19 4.3s,4.0b **¶17199561**
IDC IV 02 18 37 32.2–6.0 38.22N 143.41E 34–45 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=13.5km az=29.0.
IDC Error ellipse: s-maj=31.5km s-min=17.4km az=90.0.
IDC IV 02 18 41 40.3–2.2 36.47N 142.26E 0 3.6,3.5
¶17199562

IDC Error ellipse: s-maj=61.9km s-min=23.8km az=76.0.
JMA IV 02 18 52 01.2–.20 38.91N 144.14E 41 3.5
¶600576204

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 02 19 06 21.0–.99 39.77N–.04 144.01E–.05 28–6 4.4b,3.5s 155 2-146
IDC IV 02 19 06 16.8–.57 39.73N 144.04E 0 4.3,4.2 **¶16404916**
ISCJB IV 02 19 06 17.9–1.1 39.79N–.03 144.00E–.03 16–7 4.4b,3.5s
JMA IV 02 19 06 20.4–.20 39.85N 143.92E 36 4.3,3.5s
NEIC IV 02 19 06 21.5–1.5 39.72N 143.98E 31–10 4.6b,3.5s

ISC Event type se.
IDC Error ellipse: s-maj=15.9km s-min=12.1km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=143.9.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=125.0.
IDC IV 02 19 12 07.2–2.9 37.63N 142.82E 0 3.5,3.5b
¶17199566

IDC Error ellipse: s-maj=73.2km s-min=32.2km az=61.0.
ISC IV 02 19 45 39.1–1.1 37.75N–.05 143.63E–.08 19 3.6b 25 2-97
NIED IV 02 19 45 00 37.90N 143.40E 26 3.7W **¶17199568**
IDC IV 02 19 45 37.0–1.3 37.50N 144.10E 0 3.8,3.8L
ISCJB IV 02 19 45 38.9–.85 37.78N–.05 143.55E–.06 19 3.6s,3.6b
JMA IV 02 19 45 40.9–.20 37.93N 143.40E 14 4.0,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S323.00000°,δ78.00000°,λ175.00000°. NP2:ϕ_S54.00000°,δ85.00000°,λ12.00000°. $M_0$3.99000×10^{14}
IDC Error ellipse: s-maj=30.5km s-min=21.6km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.2km az=7.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 02 19 48 42.6–2.0 37.32N–.08 142.5E–.20 10 8 1-57
NIED IV 02 19 48 00 37.30N 142.40E 20 3.4W **¶17199569**
JMA IV 02 19 48 41.5–.30 37.27N 142.41E 0 3.6
ISCJB IV 02 19 48 42.0–2.0 37.19N–.08 142.4E–.20 10 3.4b
IDC IV 02 19 48 45.7–3.0 36.85N 142.57E 0 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S15.00000°,δ47.00000°,λ-117.00000°. NP2:ϕ_S232.00000°,δ49.00000°,λ-64.00000°. $M_0$1.63000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=27.4km s-min=10.5km az=173.4.
IDC Error ellipse: s-maj=55.5km s-min=34.7km az=79.0.
ISC IV 02 19 53 38.6–1.2 37.7N–.20 143.9E–.20 35 3.5b 8 5-62
IDC IV 02 19 53 33.4–.98 37.71N 143.97E 0 3.8,3.6 **¶17199570**
ISCJB IV 02 19 53 36.2–.88 37.7N–.10 144.0E–.20 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 21 21 45.9–1.3 37.73N–.06 144.37E–.10 35 29 2-58
IDC IV 02 21 21 41.2–1.6 37.57N 144.61E 0 4.0,3.9 **¶17199575**
ISCJB IV 02 21 21 44.5–.90 37.78N–.06 144.43E–.07 33 3.9b,3.9
JMA IV 02 21 21 45.6–.30 37.83N 144.29E 26 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=54.3km s-min=26.9km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.4km az=42.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 02 22 30 14.9–1.5 37.66N–.06 142.7E–.10 21 3.5b 16 1-58
ISCJB IV 02 22 30 13.1–1.2 37.57N–.05 142.90E–.10 21 3.5b,3.2s **¶17199579**
JMA IV 02 22 30 14.2–.40 37.63N 142.90E 35 3.4,3.2s
IDC IV 02 22 30 18.7–2.4 36.74N 140.86E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.6km az=9.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=60.6km s-min=28.7km az=63.0.
ISC IV 02 22 40 37.0–2.1 36.7N–.10 142.2E–.10 18 3.6b 7 3-57
IDC IV 02 22 40 36.1–2.4 37.78N 142.95E 0 3.7,3.7 **¶17199580**
ISC Event type ke.
IDC Error ellipse: s-maj=58.5km s-min=25.7km az=76.0.
ISC IV 02 22 44 57.7–.89 37.42N–.05 142.51E–.10 21 4.0b 29 1-69
IDC IV 02 22 44 54.9–1.7 37.36N 142.65E 0 3.8,3.8b **¶16487703**
NEIC IV 02 22 44 58.5–.89 37.46N 142.88E 35 4.2b,3.8b
JMA IV 02 22 45 00.0–.50 37.45N 142.30E 31 3.6,3.8b
NIED IV 02 22 45 00 37.50N 142.30E 5 3.8W,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=46.5km s-min=20.6km az=74.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=13.1km az=132.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_S243.00000°,δ5.00000°,λ-85.00000°. NP2:ϕ_S58.00000°,δ85.00000°,λ-90.00000°. $M_0$6.11000×10^{14}
ISC IV 02 23 01 52.5–.71 38.83N–.05 144.12E–.07 23 3.8b 48 2-87
ISCJB IV 02 23 01 51.2–.53 38.89N–.05 144.11E–.04 23 3.7b **¶16506160**
JMA IV 02 23 01 52.0–.20 38.89N 144.15E 47 4.0
IDC IV 02 23 01 54.0–5.3 38.80N 144.14E 33–42 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.4km az=157.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=17.8km az=128.0.
ISC IV 02 23 16 25.8–3.6 36.65N–.04 142.25E–.07 11–23 3.9b 32 1-75
JMA IV 02 23 16 24.8–.30 36.67N 142.35E 17–4 4.1 **¶17199583**
ISCJB IV 02 23 16 26.3–1.9 36.59N–.04 142.32E–.06 30–15 3.8b
IDC IV 02 23 16 29.0–5.8 36.63N 142.29E 33–45 3.9,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.2km az=170.7.
IDC Error ellipse: s-maj=24.7km s-min=17.3km az=99.0.
IDC IV 02 23 20 56.8–3.4 36.07N 142.11E 0 3.7L,3.5
¶17199584

IDC Error ellipse: s-maj=96.7km s-min=27.9km az=54.0.
JMA IV 02 23 37 11.0–.30 37.93N 144.45E 50 3.9
¶600576364

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 03 00 37 02.5–.20 37.56N 142.04E 28–4 3.5
¶600576391

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 03 00 48 39.5–1.0 37.48N–.05 143.75E–.08 35 3.6b 30 2-69
NIED IV 03 00 48 00 37.50N 143.50E 38 3.6W **¶17199591**
IDC IV 03 00 48 35.1–1.9 37.45N 143.90E 0 3.8,3.7
ISCJB IV 03 00 48 38.4–.74 37.47N–.05 143.64E–.06 33 3.6b,3.7
JMA IV 03 00 48 39.4–.40 37.49N 143.54E 46 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S65.00000°,δ58.00000°,λ-36.00000°. NP2:ϕ_S175.00000°,δ60.00000°,λ-143.00000°. $M_0$2.41000×10^{14}
IDC Error ellipse: s-maj=50.5km s-min=21.9km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.7km az=19.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC IV 03 00 56 05.3–3.5 35.41N 143.11E 0 3.6,3.4
¶17199592

IDC Error ellipse: s-maj=109.1km s-min=24.5km az=60.0.
ISC IV 03 00 59 03.5–.78 36.39N–.07 143.48E–.07 35 3.6b 31 2-89
IDC IV 03 00 58 57.9–.76 36.26N 143.71E 0 3.8,3.6 **¶17199593**
NIED IV 03 00 59 00 36.40N 143.40E 5 3.5W,3.6
ISCJB IV 03 00 59 01.5–.58 36.39N–.06 143.45E–.05 33 3.6b,3.6
JMA IV 03 00 59 02.3–.30 36.43N 143.42E 68 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=19.4km az=124.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_S42.00000°,δ33.00000°,λ-87.00000°. NP2:ϕ_S219.00000°,δ57.00000°,λ-92.00000°. $M_0$2.04000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.3km az=1.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 03 01 13 41.2–.81 36.25N–.09 143.19E–.09 35 3.6b 15 4-146
IDC IV 03 01 13 36.0–.81 36.31N 143.35E 0 3.7,3.6 **¶17199595**
ISCJB IV 03 01 13 39.0–.70 36.23N–.07 143.15E–.08 33 3.5b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 01 15 36.6–1.2 37.1N–.20 142.4E–.10 9 3.4b 8 3-61
ISCJB IV 03 01 15 34.6–.96 37.0N–.10 142.4E–.10 9 3.4b **¶17199596**
IDC IV 03 01 15 35.2–1.2 37.05N 142.42E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=11.6km az=171.9.
IDC Error ellipse: s-maj=30.4km s-min=24.0km az=79.0.
ISC IV 03 01 42 05.0–1.1 37.71N–.09 143.06E–.09 24 3.7b 17 2-69
JMA IV 03 01 41 58.3–.80 37.51N 143.40E 19 3.7 **¶17199598**
ISCJB IV 03 01 42 02.3–.82 37.59N–.08 143.22E–.07 24 3.6b
IDC IV 03 01 42 04.1–1.1 38.10N 143.26E 0 3.7,3.6b

ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.4km az=1.5.
IDC Error ellipse: s-maj=28.6km s-min=22.8km az=132.0.
ISC IV 03 01 57 57.0–2.1 36.2N–.30 143.0E–.30 35 3.5b 6 4-60
IDC IV 03 01 57 50.6–2.6 36.28N 143.28E 0 3.6,3.6b **¶17199599**
ISC Event type ke.
IDC Error ellipse: s-maj=79.4km s-min=23.2km az=62.0.
ISC IV 03 01 59 05.2–1.0 37.8N–.10 143.0E–.10 24 3.7b 16 4-89
ISCJB IV 03 01 59 03.1–.90 37.7N–.10 143.1E–.10 24 3.7b **¶17199600**
IDC IV 03 01 59 10.7–3.7 37.68N 142.91E 75–34 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=8.8km az=152.8.
IDC Error ellipse: s-maj=23.2km s-min=21.9km az=116.0.
ISC IV 03 02 04 00.4–.61 36.45N–.06 142.40E–.08 15 4.2b 46 1-84
ISCJB IV 03 02 03 58.4–.44 36.43N–.04 142.45E–.05 15 4.2b **¶16506165**
NIED IV 03 02 04 00 36.50N 142.40E 17 4.0W
JMA IV 03 02 04 00.4–.30 36.47N 142.42E 63 3.9
NEIC IV 03 02 04 03.6–1.1 36.35N 142.39E 42–10 4.3b
IDC IV 03 02 04 03.8–2.8 36.39N 142.40E 40–25 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.7km az=37.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ33.00000°,λ87.00000°. NP2:ϕ_s2.00000°,δ57.00000°,λ92.00000°. $M_0$1.20000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=7.6km az=54.0.
IDC Error ellipse: s-maj=21.0km s-min=15.2km az=87.0.
ISC IV 03 02 28 24.1–.75 36.47N–.06 142.38E–.08 15 3.9b 32 1-146
NIED IV 03 02 28 00 36.50N 142.30E 17 3.8W **¶16529559**
IDC IV 03 02 28 21.5–.78 36.45N 142.52E 0 4.0L,3.9
ISCJB IV 03 02 28 22.3–.53 36.44N–.04 142.44E–.05 15 3.8b,3.1s
NEIC IV 03 02 28 22.9–3.9 36.47N 142.57E 10–24 4.0b,3.1s
JMA IV 03 02 28 23.3–.20 36.52N 142.32E 8–4 3.9,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ37.00000°,λ146.00000°. NP2:ϕ_s346.00000°,δ70.00000°,λ58.00000°. $M_0$6.08000×10^{14}
IDC Error ellipse: s-maj=21.9km s-min=18.8km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.7km az=163.1.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.3km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 03 02 46 01.8–1.2 37.38N 144.31E 0 3.7,3.6L
¶17199603
IDC Error ellipse: s-maj=36.5km s-min=27.4km az=112.0.
ISC IV 03 02 51 33.3–.74 38.13N–.06 143.15E–.07 18 3.9b 40 1-88
NIED IV 03 02 51 00 38.10N 143.10E 8 3.8W **¶16529560**
ISCJB IV 03 02 51 31.4–.50 38.10N–.05 143.29E–.05 18 3.9b
JMA IV 03 02 51 32.9–.40 38.14N 143.08E 10 3.7
NEIC IV 03 02 51 36.5–1.2 38.13N 143.23E 44–11 4.1b
IDC IV 03 02 51 36.2–3.4 38.12N 143.28E 39–30 4.0L,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s120.00000°,δ39.00000°,λ-77.00000°. NP2:ϕ_s284.00000°,δ52.00000°,λ-101.00000°. $M_0$6.10000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=6.2km az=176.6.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=8.0km az=103.0. Recorded [3 JMA] in Ibaraki and Tochigi.
IDC Error ellipse: s-maj=22.4km s-min=15.5km az=96.0.
ISC IV 03 03 09 08.9–.40 36.83N–.03 142.17E–.03 19–1 5.0b,4.7s 862 1-154
NIED IV 03 03 09 00 36.80N 142.20E 5 5.0W,4.7s **¶16404924**
ISCJB IV 03 03 09 04.9–.90 36.80N–.02 142.15E–.02 0–5 5.0b,4.7s
IDC IV 03 03 09 05.9–.44 36.75N 142.17E 0 4.8,4.8b
BJI IV 03 03 09 05.3 36.82N 142.05E 7 5.1b,5.0b
JMA IV 03 03 09 06.1–.30 36.82N 142.25E 20 5.1,5.0b
NEIC IV 03 03 09 08.0–2.4 36.78N 142.08E 12–15 5.1b,5.0b
GCMT IV 03 03 09 08.0–.30 36.87N 142.13E 12 5.0W,5.0b
MOS IV 03 03 09 10.6–1.0 37.23N 142.03E 25 5.3b,4.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ19.00000°,λ121.00000°. NP2:ϕ_s9.00000°,δ74.00000°,λ80.00000°. $M_0$3.63000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=172.8.
IDC Error ellipse: s-maj=12.1km s-min=10.4km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.6km az=144.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c45; s90,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.84±.07 $M_{\theta\theta}$-0.46±.07; $M_{\phi\phi}$-2.38±.06; $M_{r\theta}$0.58±.26; $M_{\theta\phi}$-1.20±.06; $M_{\phi r}$1.28±.21; Best double couple: NP1:ϕ_s25.00000°,δ58.00000°,λ89.00000°. NP2:ϕ_s206.00000°,δ32.00000°,λ91.00000°. Principal axes: T 3.1620,Plg77.0000°,Azm293.0000°; N 0.1130,Plg1.0000°,Azm25.0000°; P -3.2790,Plg13.0000°,Azm116.0000° $M_0$3.22100×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=108.7.
ISC IV 03 03 25 53.4–1.1 36.2N–.20 142.7E–.10 18 3.4b 9 4-70
IDC IV 03 03 25 50.6–1.1 36.20N 142.64E 0 3.6,3.5b **¶17199606**
ISCJB IV 03 03 25 51.3–.91 36.2N–.10 142.7E–.10 18 3.4b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 03 51 26.7–1.5 36.6N–.20 142.31E–.09 15 3.7b 17 1-90
NIED IV 03 03 51 00 36.80N 142.20E 5 3.8W **¶17199608**
ISCJB IV 03 03 51 25.6–1.2 36.7N–.20 142.30E–.09 15 3.6b
JMA IV 03 03 51 25.7–.30 36.81N 142.20E 11–3 3.6
IDC IV 03 03 51 32.3–3.9 36.83N 142.09E 52–31 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s281.00000°,δ20.00000°,λ173.00000°. NP2:ϕ_s18.00000°,δ87.00000°,λ70.00000°. $M_0$4.85000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=27.4km s-min=7.7km az=163.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=44.3km s-min=22.0km az=163.0.
ISC IV 03 05 08 46.3–2.5 37.45N–.06 142.02E–.10 15–12 3.6b 19 1-58
IDC IV 03 05 08 45.2–2.5 37.35N 141.83E 0 3.7,3.5 **¶17199615**
JMA IV 03 05 08 46.7–.30 37.48N 142.11E 21–5 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=65.5km s-min=30.8km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 03 05 18 38.6–.20 39.40N 143.07E 21–3 3.7
NIED IV 03 05 18 00 39.40N 143.10E 20 3.5W **¶600576506**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s123.00000°,δ29.00000°,λ160.00000°. NP2:ϕ_s231.00000°,δ80.00000°,λ62.00000°. $M_0$2.10000×10^{14}
ISC IV 03 05 26 00.0–.53 36.21N–.05 142.64E–.06 18 4.1b 67 2-151
IDC IV 03 05 25 57.2–.60 36.19N 142.71E 0 4.1,4.0 **¶16509617**
ISCJB IV 03 05 25 58.5–.39 36.24N–.03 142.62E–.04 18 4.7s,4.0b
NIED IV 03 05 26 00 36.30N 142.60E 20 3.8W,4.0b
JMA IV 03 05 26 00.5–.20 36.32N 142.61E 61 3.9,4.0b
NEIC IV 03 05 26 02.0–.34 36.10N 142.69E 35 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=13.4km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.7km az=25.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ7.00000°,λ36.00000°. NP2:ϕ_s210.00000°,δ86.00000°,λ96.00000°. $M_0$5.72000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.2km az=140.0.
IDC IV 03 06 08 17.7–9.0 36.59N 142.17E 0 3.5,3.5
¶17199621
IDC Error ellipse: s-maj=155.3km s-min=68.3km az=137.0.
ISC IV 03 06 35 53.5–2.0 37.2N–.20 143.9E–.10 35 3.8b 16 2-61
NIED IV 03 06 35 00 37.20N 143.70E 29 3.6W **¶17199625**
JMA IV 03 06 35 53.4–.20 37.19N 143.75E 75 3.6
IDC IV 03 06 35 53.5–1.2 36.34N 143.60E 0 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s318.00000°,δ66.00000°,λ168.00000°. NP2:ϕ_s53.00000°,δ79.00000°,λ24.00000°. $M_0$2.88000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.3km s-min=22.2km az=67.0.
JMA IV 03 06 40 07.5–.30 37.48N 143.99E 46 3.6
¶600576559
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC IV 03 06 42 17.0–2.9 37.98N 144.59E 0 3.7,3.6L
¶17199626
IDC Error ellipse: s-maj=72.1km s-min=35.9km az=67.0.
JMA IV 03 07 13 07.0–.30 38.37N 143.94E 1 3.7
¶600576582
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 03 07 17 15.6–.47 35.42N–.04 142.76E–.05 59 4.3b,3.6s 124 2-147
NIED IV 03 07 17 00 35.50N 143.00E 5 4.3W,3.6s **¶16404929**
IDC IV 03 07 17 07.4–.57 35.40N 143.04E 0 4.3,4.2
NEIC IV 03 07 17 09.5–2.4 35.39N 143.08E 14–15 4.7b,4.2
JMA IV 03 07 17 10.8–.40 35.54N 142.99E 60 4.4,4.2
MOS IV 03 07 17 11.5–.94 35.76N 142.88E 24 4.6b,4.2
ISCJB IV 03 07 17 13.9–.34 35.46N–.04 142.80E–.04 59 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ39.00000°,λ-83.00000°. NP2:ϕ_s209.00000°,δ52.00000°,λ-96.00000°. $M_0$2.89000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC IV 03 07 19 22.6–.57 35.43N–.06 142.78E–.07 59 4.0b 46 2-146
NIED IV 03 07 19 00 35.60N 142.90E 5 4.0W **¶16509619**
IDC IV 03 07 19 14.9–.68 35.46N 142.98E 0 4.2,4.0
NEIC IV 03 07 19 19.7–.40 35.39N 142.98E 35 4.0b,4.0
JMA IV 03 07 19 19.5–.20 35.60N 142.87E 73 3.9,4.0
ISCJB IV 03 07 19 20.8–.46 35.37N–.05 142.75E–.05 59 4.0b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ29.00000°,λ-82.00000°. NP2:ϕ_s207.00000°,δ61.00000°,λ-94.00000°. $M_0$1.08000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC IV 03 07 21 19.6–.46 35.48N–.05 142.79E–.06 59 4.2b 75 2-146
NIED IV 03 07 21 00 35.80N 142.70E 5 4.3W **¶17208872**
IDC IV 03 07 21 11.4–.48 35.42N 143.04E 0 4.4,4.3
NEIC IV 03 07 21 12.8–.24 35.40N 143.08E 10 4.5b,4.3
JMA IV 03 07 21 15.1–.30 35.78N 142.73E 0 4.6,4.3
ISCJB IV 03 07 21 17.8–.34 35.44N–.04 142.73E–.04 59 4.2b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ19.00000°,λ-82.00000°. NP2:ϕ_s203.00000°,δ71.00000°,λ-93.00000°. $M_0$3.28000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC IV 03 07 28 35.3–.77 38.38N–.06 143.72E–.08 15 3.7b 35 2-88
NIED IV 03 07 28 00 38.50N 143.60E 8 3.7W **¶16512207**
ISCJB IV 03 07 28 33.9–.54 38.33N–.05 143.69E–.06 15 3.6b
IDC IV 03 07 28 33.5–.82 38.35N 143.68E 0 4.0L,3.8
JMA IV 03 07 28 34.3–.60 38.45N 143.55E 6 3.7,3.8
NEIC IV 03 07 28 36.4–3.4 38.34N 143.65E 19–21 4.0b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ36.00000°,λ-56.00000°. NP2:ϕ_s320.00000°,δ61.00000°,λ-112.00000°. $M_0$3.37000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.9km az=152.1.
IDC Error ellipse: s-maj=23.6km s-min=18.3km az=114.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=6.1km az=110.0.
ISC IV 03 09 30 07.2–1.0 36.29N–.08 143.13E–.10 29 3.6b 11 4-64
IDC IV 03 09 30 03.6–1.1 36.34N 143.20E 0 3.8,3.8 **¶17199639**
ISCJB IV 03 09 30 05.4–.87 36.34N–.08 143.12E–.09 29 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 10 10 57.8–.87 37.82N–.07 144.26E–.07 35 3.4b 36 2-88
NIED IV 03 10 10 00 37.80N 144.20E 8 3.7W **¶17199642**
IDC IV 03 10 10 52.1–.86 37.58N 144.49E 0 3.8,3.6
ISCJB IV 03 10 10 56.4–.66 37.86N–.05 144.22E–.05 33 3.5b,3.6
JMA IV 03 10 10 56.2–.30 37.78N 144.18E 44 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ30.00000°,λ-101.00000°. NP2:ϕ_s191.00000°,δ61.00000°,λ-84.00000°. $M_0$4.09000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=19.2km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.5km az=157.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 03 10 40 22.6–.65 34.61N–.04 141.44E–.07 27 4.0b 37 0-148
IDC IV 03 10 40 19.9–.59 34.68N 141.46E 0 4.0,3.9 **¶16499036**
JMA IV 03 10 40 20.4–.40 34.62N 141.65E 31–2 3.4,3.9
ISCJB IV 03 10 40 21.8–.41 34.64N–.04 141.55E–.05 27 4.0b,3.2s
NEIC IV 03 10 40 22.8–3.6 34.66N 141.47E 19–22 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=13.4km az=106.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=140.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.9km az=70.0.
ISC IV 03 11 40 19.7–.70 36.79N–.07 143.92E–.09 35 3.9b 29 5-89
IDC IV 03 11 40 15.1–.89 36.99N 143.94E 0 4.1,3.9 **¶17199650**
NEIC IV 03 11 40 16.6–.63 36.94N 143.93E 10 4.5b,3.9
ISCJB IV 03 11 40 17.9–.55 36.82N–.05 143.86E–.07 33 4.0b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 03 12 43 18.9–.82 35.45N–.04 143.01E–.04 24–5 4.7b,3.7s 294 4-148
IDC IV 03 12 43 15.4–.46 35.45N 143.03E 0 4.6,4.5 **¶16404936**
ISCJB IV 03 12 43 16.5–1.1 35.46N–.03 142.93E–.03 14–6 4.7b,3.8s
BJI IV 03 12 43 17.3 35.67N 143.00E 23 4.8b,4.5b
NEIC IV 03 12 43 19.3–1.2 35.45N 142.94E 23–8 4.8b,4.5b
MOS IV 03 12 43 20.9–.77 35.90N 142.89E 31 4.9b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.6km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=158.9.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=3.3km az=132.0.
MOS Error ellipse: s-maj=8.7km s-min=5.5km az=109.0.
ISC IV 03 12 51 44.1–.51 35.36N–.06 143.07E–.07 10 4.1b 50 4-146
ISCJB IV 03 12 51 42.5–.38 35.33N–.04 143.02E–.05 10 4.0b,3.7s **¶16499040**
IDC IV 03 12 51 43.1–.62 35.42N 143.07E 0 4.1,4.0
NEIC IV 03 12 51 44.4–.31 35.40N 143.09E 10 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.4km az=142.7.
IDC Error ellipse: s-maj=16.2km s-min=14.2km az=131.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.1km az=123.0.
ISC IV 03 13 07 36.1–4.6 37.18N–.05 142.39E–.06 1–29 4.0b 48 1-146
ISCJB IV 03 13 07 36.9–1.5 37.13N–.04 142.45E–.06 19–10 3.9b,3.5s **¶16499042**
JMA IV 03 13 07 36.6–.30 37.18N 142.43E 14–5 4.1,3.5s
IDC IV 03 13 07 36.2–.62 37.14N 142.35E 0 4.1,3.9L
NEIC IV 03 13 07 37.9–2.9 37.15N 142.41E 12–19 4.8b,3.9L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=6.3km az=155.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=17.9km s-min=13.9km az=127.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.1km az=108.0.
JMA IV 03 13 10 47.7–.20 38.23N 143.86E 35 3.6
¶600576790
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA IV 03 13 12 08.2–.30 37.21N 142.35E 7 3.6
¶600576791
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 03 13 15 19.6–2.7 38.80N–.07 144.0E–.20 36–6 3.5b 29 2-59
NIED IV 03 13 15 00 38.80N 144.00E 8 3.6W **¶17199657**
IDC IV 03 13 15 18.8–2.5 37.98N 144.26E 0 3.5,3.4
JMA IV 03 13 15 18.5–.20 38.79N 143.97E 37 3.9,3.4
ISCJB IV 03 13 15 19.2–1.2 38.81N–.04 143.94E–.09 62–19 3.4b,3.4

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ41.00000°,λ-109.00000°. NP2:ϕ_s198.00000°,δ51.00000°,λ-74.00000°. $M_0$2.73000×10^{14}
ISCJB Event type ke.
ISC IV 03 13 18 06.7–.54 36.74N–.03 142.17E–.03 29–3 5.0b,4.9s 635 1-154
NIED IV 03 13 18 00 36.70N 142.30E 20 5.1W,4.9s **¶600576799**
IDC IV 03 13 18 02.5–.37 36.71N 142.16E 0 4.7,4.6
JMA IV 03 13 18 02.6–.40 36.74N 142.32E 15–5 4.9,4.6
ISCJB IV 03 13 18 04.4–.72 36.75N–.02 142.17E–.02 21–5 4.9b,4.8s
BJI IV 03 13 18 05.8 36.83N 141.97E 30 5.1b,5.1b
MOS IV 03 13 18 07.6–.91 37.07N 142.07E 32 5.2b,4.8s
NEIC IV 03 13 18 08.0–.49 36.76N 142.14E 36–4 5.0b,4.8s
GCMT IV 03 13 18 08.0–.20 36.74N 142.28E 26–0 5.1W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ23.00000°,λ93.00000°. NP2:ϕ_s27.00000°,δ67.00000°,λ89.00000°. $M_0$4.44000×10^{16}
IDC Error ellipse: s-maj=11.1km s-min=9.1km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=152.8.
MOS Error ellipse: s-maj=6.6km s-min=4.2km az=108.4.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c73; s89,c155; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.84±.17 $M_{\theta\theta}$-1.05±.10; $M_{\phi\phi}$-2.79±.11; $M_{r\theta}$2.33±.20; $M_{\theta\phi}$-1.37±.06; $M_{\phi r}$3.98±.22; Best double couple: NP1:ϕ_s30.00000°,δ71.00000°,λ91.00000°. NP2:ϕ_s208.00000°,δ19.00000°,λ88.00000°. Principal axes: T 6.0570,Plg64.0000°,Azm301.0000°; N -0.2990,Plg1.0000°,Azm210.0000°; P -5.7580,Plg26.0000°,Azm119.0000° $M_0$5.90700×10^{16}
ISC IV 03 13 48 44.5–1.5 36.23N–.06 142.3E–.10 18 3.5b 17 1-56
IDC IV 03 13 48 40.2–2.7 36.12N 142.69E 0 3.6,3.6L **¶17199659**
JMA IV 03 13 48 48.0–.30 36.29N 141.92E 71 3.2,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=61.2km s-min=27.9km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 03 14 53 23.7–.57 37.84N–.03 142.22E–.04 30–3 5.0b,4.3s 542 1-160
NIED IV 03 14 53 00 37.90N 142.10E 38 4.8W,4.3s **¶602597206**
MOS IV 03 14 53 22.9–.86 37.91N 142.13E 31 5.1b,4.3s
ISCJB IV 03 14 53 23.6–.45 37.86N–.02 142.13E–.03 37–3 4.9b,4.3s
JMA IV 03 14 53 23.7–.20 37.87N 142.13E 40–4 4.9,4.3s
BJI IV 03 14 53 24.3 37.84N 142.14E 55 5.2b,5.0b
IDC IV 03 14 53 25.6–1.7 37.84N 142.13E 41–15 4.8,4.7
NEIC IV 03 14 53 26.5–.44 37.88N 142.10E 49–4 4.9b,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ45.00000°,λ-81.00000°. NP2:ϕ_s18.00000°,δ46.00000°,λ-99.00000°. $M_0$1.55000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=107.5.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=40.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=10.4km s-min=8.0km az=97.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=135.0. Recorded [3 JMA] in Miyagi.
ISC IV 03 14 55 27.7–.74 37.86N–.04 142.25E–.05 27–5 4.4b 93 1-146
NIED IV 03 14 55 00 37.90N 142.20E 32 4.4W **¶16499047**
ISCJB IV 03 14 55 26.7–.69 37.84N–.03 142.25E–.05 34–6 4.3b
MOS IV 03 14 55 26.2–1.1 37.83N 142.33E 32 4.5b
JMA IV 03 14 55 27.4–.20 37.86N 142.16E 36–4 4.5
IDC IV 03 14 55 29.8–1.9 37.82N 142.10E 42–18 4.3,4.2
NEIC IV 03 14 55 30.4–.64 37.81N 142.16E 51–6 5.0b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ55.00000°,λ173.00000°. NP2:ϕ_s251.00000°,δ84.00000°,λ35.00000°. $M_0$3.96000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=5.0km az=19.1.
MOS Error ellipse: s-maj=10.0km s-min=7.3km az=80.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.5km s-min=9.8km az=93.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.6km az=89.0.
IDC IV 03 15 23 40.8–3.3 36.51N 143.94E 0 4.0,3.9
¶17199662
IDC Error ellipse: s-maj=55.7km s-min=40.1km az=14.0.
ISC IV 03 15 42 06.0–.79 35.27N–.10 142.7E–.10 59 3.6b 12 3-78
IDC IV 03 15 41 59.1–.77 35.34N 142.99E 0 3.8,3.6 **¶17199664**
ISCJB IV 03 15 42 04.2–.64 35.2N–.10 142.8E–.10 59 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 03 16 19 50.7–.30 36.78N 143.52E 10 3.8
¶600576890
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 03 16 50 40.2–.66 38.18N–.06 143.54E–.07 19 4.0b,3.6s 42 2-94
IDC IV 03 16 50 37.7–.68 38.17N 143.53E 0 4.0,3.9 **¶16499049**
ISCJB IV 03 16 50 38.8–.48 38.18N–.05 143.50E–.05 19 4.0b,3.6s
NEIC IV 03 16 50 38.9–4.4 38.17N 143.64E 9–28 4.7b,3.6s
JMA IV 03 16 50 40.2–.30 38.28N 143.52E 46 4.0,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=14.5km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=157.2.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.0km az=115.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 03 16 52 47.3–.56 36.77N–.04 142.33E–.06 15 4.2b,3.5s 82 1-146
NIED IV 03 16 52 00 36.70N 142.40E 20 4.3W,3.5s **¶16407589**
IDC IV 03 16 52 45.9–.60 36.67N 142.23E 0 4.2,4.2L
ISCJB IV 03 16 52 46.0–.35 36.65N–.04 142.40E–.05 15 4.1b,3.5s
JMA IV 03 16 52 46.6–.50 36.67N 142.35E 18 4.2,3.5s
NEIC IV 03 16 52 47.2–2.4 36.69N 142.32E 9–15 4.7b,3.5s
MOS IV 03 16 52 50.7–.90 36.99N 142.09E 30 4.4b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ29.00000°,λ86.00000°. NP2:ϕ_s27.00000°,δ61.00000°,λ92.00000°. $M_0$3.34000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=13.6km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=30.8.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.5km az=117.0.
MOS Error ellipse: s-maj=10.0km s-min=7.1km az=114.5.
ISC IV 03 17 08 51.9–1.2 35.82N–.08 142.17E–.09 23 3.7b 18 1-60
IDC IV 03 17 08 44.2–2.4 36.51N 143.00E 0 3.7,3.6 **¶17199673**
ISCJB IV 03 17 08 50.0–.86 35.77N–.07 142.24E–.07 23 3.6b,3.6
JMA IV 03 17 08 52.2–.30 35.82N 142.18E 53 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=72.5km s-min=22.3km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.7km az=37.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 03 17 24 44.6–.61 36.90N–.06 143.50E–.07 35 4.0b 42 2-145
NIED IV 03 17 24 00 36.90N 143.00E 5 4.0W **¶16577640**
IDC IV 03 17 24 39.9–.65 36.92N 143.74E 0 4.1,4.0
ISCJB IV 03 17 24 42.5–.46 36.83N–.04 143.48E–.04 33 4.0b,4.0
NEIC IV 03 17 24 44.6–.59 36.83N 143.55E 35 4.4b,4.0
JMA IV 03 17 24 49.4–.30 36.91N 143.05E 31 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ18.00000°,λ-85.00000°. NP2:ϕ_s218.00000°,δ72.00000°,λ-92.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=15.2km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=154.3.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=10.8km az=119.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC IV 03 17 44 06.4–12 36.94N 143.73E 0 3.4b,3.3
¶17199679
IDC Error ellipse: s-maj=214.5km s-min=76.3km az=136.0.
IDC IV 03 18 06 51.3–2.9 38.13N 144.31E 0 3.4,3.3b
¶17199683
IDC Error ellipse: s-maj=72.1km s-min=31.2km az=62.0.
ISC IV 03 18 39 25.7–1.0 37.0N–.10 143.5E–.10 35 3.6b 14 4-63
IDC IV 03 18 39 20.6–.87 37.12N 143.71E 0 3.8,3.7 **¶17199685**
ISCJB IV 03 18 39 23.2–.80 37.01N–.08 143.5E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 18 40 40.7–1.5 36.45N 142.68E 0 3.8,3.7
¶17199686
IDC Error ellipse: s-maj=53.0km s-min=23.6km az=80.0.
IDC IV 03 18 56 32.0–2.9 37.93N 143.78E 0 3.5,3.4b
¶17199687
IDC Error ellipse: s-maj=73.3km s-min=34.5km az=54.0.
ISC IV 03 19 07 37.3–.42 37.59N–.04 144.54E–.04 35 4.4b,3.8s 219 3-149
NIED IV 03 19 07 00 37.60N 144.40E 8 4.4W,3.8s **¶16407591**
IDC IV 03 19 07 31.8–.49 37.48N 144.63E 0 4.4,4.3
MOS IV 03 19 07 35.2–1.0 37.48N 144.59E 35 4.6b,4.3
ISCJB IV 03 19 07 35.5–.24 37.58N–.03 144.46E–.03 33 4.4b,3.7s
JMA IV 03 19 07 36.5–.40 37.64N 144.37E 56 5.1,3.7s
NEIC IV 03 19 07 36.8–.93 37.47N 144.58E 36–8 4.7b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ46.00000°,λ-71.00000°. NP2:ϕ_s174.00000°,δ47.00000°,λ-109.00000°. $M_0$4.94000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=11.7km az=130.0.
MOS Error ellipse: s-maj=9.0km s-min=6.7km az=108.5.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.8km az=158.8.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.4km az=146.0.
IDC IV 03 19 15 27.4–2.9 36.34N 142.05E 0 3.6,3.6b
¶17199692
IDC Error ellipse: s-maj=77.6km s-min=29.7km az=59.0.
IDC IV 03 21 09 00.6–2.7 37.68N 143.16E 0 3.5,3.4b
¶17199700
IDC Error ellipse: s-maj=68.8km s-min=30.2km az=64.0.
ISC IV 03 21 27 13.1–1.2 36.3N–.20 142.4E–.10 15 3.5b 9 3-60
IDC IV 03 21 27 10.8–1.2 36.35N 142.43E 0 4.4,4.2s **¶17199702**
ISCJB IV 03 21 27 11.1–.94 36.3N–.10 142.4E–.10 15 4.1s,3.6b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 22 19 22.5–.95 35.79N 143.53E 0 3.7,3.5
¶17199708
IDC Error ellipse: s-maj=27.5km s-min=21.4km az=65.0.
ISC IV 03 22 30 20.7–.66 36.45N–.09 143.68E–.08 35 3.7b 22 4-145
IDC IV 03 22 30 15.6–.78 36.48N 143.78E 0 3.9,3.7 **¶16705494**
ISCJB IV 03 22 30 18.4–.57 36.38N–.07 143.68E–.07 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 23 24 46.4–.82 36.86N–.06 144.36E–.08 26 3.8b 40 3-119
IDC IV 03 23 24 41.4–.92 36.76N 144.68E 0 3.9,3.8 **¶16525077**
NEIC IV 03 23 24 42.6–.57 36.66N 144.71E 10 4.4b,3.8
ISCJB IV 03 23 24 45.3–.63 36.87N–.05 144.29E–.05 26 3.9b,3.8
JMA IV 03 23 24 46.5–.30 36.93N 144.27E 47 4.3,3.8
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=19.6km az=94.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=10.2km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=6.2km az=4.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 03 23 54 25.9–1.6 39.53N–.05 143.08E–.05 8–9 4.5b,4.2s 92 1-145
NIED IV 03 23 54 00 39.60N 143.10E 14 4.5W,4.2s **¶16525078**
JMA IV 03 23 54 25.9–.20 39.62N 143.11E 21–3 4.7,4.2s
ISCJB IV 03 23 54 25.9–1.1 39.57N–.04 143.11E–.05 16–7 4.4b,4.2s
NEIC IV 03 23 54 28.9–2.1 39.55N 143.12E 28–15 4.5b,4.2s
IDC IV 03 23 54 30.4–2.5 39.55N 143.06E 37–21 4.4,4.3
BJI IV 03 23 54 33.0 40.50N 142.60E 20 4.9b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ29.00000°,λ68.00000°. NP2:ϕ_s199.00000°,δ64.00000°,λ102.00000°. $M_0$5.38000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.4km az=44.3.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.4km az=110.0.
IDC Error ellipse: s-maj=13.7km s-min=10.7km az=107.0.
JMA IV 04 00 47 20.3–.30 37.01N 143.68E 43 3.5
¶600577110
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 04 02 54 40.7–.71 37.87N–.06 144.68E–.07 35 4.0b 55 3-119
IDC IV 04 02 54 35.5–1.2 37.80N 144.88E 0 4.2,4.2L **¶16506180**
NEIC IV 04 02 54 36.4–.50 37.72N 144.91E 10 4.4b,4.2L
ISCJB IV 04 02 54 39.0–.49 37.89N–.05 144.60E–.04 33 3.9b,4.2L
JMA IV 04 02 54 39.3–.20 37.94N 144.59E 45 4.6,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=15.8km az=168.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.7km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.1km az=165.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 04 03 56 23.2–.60 37.26N–.06 143.08E–.07 24 4.0b 46 2-89
IDC IV 04 03 56 19.7–.62 37.24N 143.13E 0 4.2,4.0 **¶16506182**
ISCJB IV 04 03 56 21.1–.43 37.22N–.04 143.08E–.05 24 4.1b,2.8s
JMA IV 04 03 56 22.6–.20 37.38N 143.08E 46 4.1,2.8s
NEIC IV 04 03 56 25.8–1.1 37.25N 143.05E 42–10 4.6b,2.8s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=14.7km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.6km az=167.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.0km az=85.0.
JMA IV 04 05 47 08.2–.30 36.46N 143.45E 48 3.8
¶600577235
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 04 05 58 05.5–1.2 35.84N–.09 143.5E–.10 35 3.6b 12 4-64
IDC IV 04 05 58 00.4–1.2 35.95N 143.74E 0 3.8,3.7 **¶17199737**
ISCJB IV 04 05 58 03.4–.97 35.82N–.07 143.51E–.10 33 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 04 06 02 13.4–.44 37.12N–.04 144.11E–.05 35 4.5b,3.8s 193 3-145
IDC IV 04 06 02 07.7–.57 37.03N 144.21E 0 4.6L,4.5 **¶16407597**
BJI IV 04 06 02 07.7 37.20N 144.76E 36 4.8b,4.5b
NEIC IV 04 06 02 09.3–.26 37.05N 144.21E 10 4.7b,4.5b
MOS IV 04 06 02 10.6–.94 37.02N 144.18E 29 4.8b,4.5b
ISCJB IV 04 06 02 11.8–.25 37.12N–.03 143.99E–.03 33 4.4b,3.7s
JMA IV 04 06 02 12.1–.20 37.19N 143.97E 49 4.9,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=12.7km az=134.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.0km az=143.0.
MOS Error ellipse: s-maj=10.1km s-min=6.4km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=164.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 04 06 12 54.8–.41 39.09N–.04 143.47E–.04 20 4.5b,3.8s 195 1-145
NIED IV 04 06 12 00 39.10N 143.50E 11 4.3W,3.8s **¶16407598**
JMA IV 04 06 12 51.5–.30 39.12N 143.55E 6 4.4,3.8s
IDC IV 04 06 12 51.5–.58 39.02N 143.37E 0 4.5,4.3
ISCJB IV 04 06 12 53.6–.23 39.10N–.03 143.48E–.03 20 4.5b,3.8s
MOS IV 04 06 12 55.1–1.3 39.20N 143.43E 31 4.6b,3.8s
NEIC IV 04 06 12 57.3–.70 39.08N 143.39E 35–7 4.6b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s101.00000°,δ38.00000°,λ-53.00000°. NP2:ϕ_s237.00000°,δ61.00000°,λ-115.00000°. $M_0$3.75000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=12.7km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.0km az=156.9.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=90.5.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.2km az=140.0.
ISC IV 04 07 56 10.5–1.3 37.0N–.10 143.22E–.07 10 13 2-57
JMA IV 04 07 56 02.8–.30 36.33N 143.63E 17 3.9 **¶17199744**
IDC IV 04 07 56 09.7–1.8 37.05N 143.33E 0 3.7,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.

IDC Error ellipse: s-maj=55.7km s-min=34.5km az=132.0.
ISC IV 04 08 10 31.8–.58 37.74N–.05 142.59E–.06 31–3 3.8b 48 1-150
NIED IV 04 08 10 00 37.80N 142.50E 35 4.2W **¶600577291**
ISCJB IV 04 08 10 30.9–1.1 37.73N–.04 142.59E–.08 39–10 3.8b
JMA IV 04 08 10 31.5–.30 37.81N 142.53E 37 4.2
IDC IV 04 08 10 32.5–.64 37.72N 142.67E 35–3 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ57.00000°,λ35.00000°. NP2:ϕ_s146.00000°,δ61.00000°,λ142.00000°. $M_0$2.44000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=10.8km s-min=7.3km az=4.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=13.2km az=127.0.
ISC IV 04 08 24 46.5–1.3 38.7N–.20 144.3E–.20 29 3.6b 10 5-74
IDC IV 04 08 24 42.0–1.5 38.72N 144.42E 0 4.1,4.1s **¶17199747**
ISCJB IV 04 08 24 44.6–1.1 38.7N–.10 144.3E–.20 29 4.1s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 04 08 38 22.3–.42 37.79N–.04 142.70E–.03 31–2 5.0b,4.4s 544 1-154
NIED IV 04 08 38 00 37.80N 142.60E 35 5.0W,4.4s **¶16406043**
JMA IV 04 08 38 21.5–.20 37.81N 142.58E 40 5.0,4.4s
BJI IV 04 08 38 21.2 37.77N 142.48E 30 5.0b,4.8b
MOS IV 04 08 38 22.9–1.1 38.19N 142.39E 27 5.1b,4.4s
IDC IV 04 08 38 22.9–2.9 37.76N 142.51E 36–23 4.5,4.5
ISCJB IV 04 08 38 22.4–.14 37.84N–.02 142.52E–.02 33 4.9b,4.5s
NEIC IV 04 08 38 24.0–.18 37.82N 142.40E 35 5.0b,4.5s
GCMT IV 04 08 38 24.0–.20 37.84N 142.64E 30–0 5.1W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ57.00000°,λ142.00000°. NP2:ϕ_s262.00000°,δ59.00000°,λ40.00000°. $M_0$4.15000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=100.1.
IDC Error ellipse: s-maj=12.9km s-min=9.7km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=167.4.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.8km az=143.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c76; s103,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.19±.21 $M_{\theta\theta}$-4.66±.14; $M_{\phi\phi}$0.46±.14; $M_{r\theta}$-2.20±.21; $M_{\theta\phi}$2.98±.09; $M_{\phi r}$-1.70±.20; Best double couple: NP1:ϕ_s267.00000°,δ60.00000°,λ54.00000°. NP2:ϕ_s143.00000°,δ46.00000°,λ135.00000°. Principal axes:
T 5.8430,Plg58.0000°,Azm125.0000°; N 0.3520,Plg31.0000°,Azm288.0000°
; P -6.2010,Plg8.0000°,Azm22.0000° $M_0$6.02200×10^{16}
ISC IV 04 08 42 30.2–.35 37.83N–.04 142.63E–.04 31–1 4.9b,4.3s 480 1-160
NIED IV 04 08 42 00 37.80N 142.60E 35 4.8W,4.3s **¶16406044**
BJI IV 04 08 42 27.3 37.85N 143.05E 46 4.9b,4.7b
ISCJB IV 04 08 42 28.9–.94 37.79N–.03 142.54E–.02 28–6 4.8b,4.4s
MOS IV 04 08 42 29.5–1.2 37.91N 142.58E 37 5.0b,4.4s
JMA IV 04 08 42 30.0–.20 37.81N 142.54E 38 4.8,4.4s
IDC IV 04 08 42 31.7–.47 37.80N 142.52E 40–3 4.7,4.6
GCMT IV 04 08 42 31.7–.40 37.85N 142.47E 31–0 5.0W,4.6
NEIC IV 04 08 42 31.7–.50 37.83N 142.47E 37–4 4.9b,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s259.00000°,δ44.00000°,λ58.00000°. NP2:ϕ_s120.00000°,δ54.00000°,λ117.00000°. $M_0$2.06000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=174.4.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.3km s-min=8.8km az=96.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c44; s71,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.53±.25 $M_{\theta\theta}$-3.97±.15; $M_{\phi\phi}$-0.55±.14; $M_{r\theta}$-1.10±.17; $M_{\theta\phi}$0.45±.10; $M_{\phi r}$-1.05±.17; Best double couple: NP1:ϕ_s265.00000°,δ53.00000°,λ75.00000°. NP2:ϕ_s109.00000°,δ40.00000°,λ109.00000°. Principal axes:
T 4.8920,Plg76.0000°,Azm123.0000°; N -0.7510,Plg12.0000°,Azm274.0000°
; P -4.1380,Plg7.0000°,Azm5.0000° $M_0$4.51500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=138.0. Recorded [3 JMA] in Miyagi.
ISC IV 04 08 50 07.7–.45 37.73N–.04 142.63E–.05 30–2 4.4b 95 1-154
NIED IV 04 08 50 00 37.80N 142.50E 32 4.4W **¶16577651**
JMA IV 04 08 50 08.3–.20 37.84N 142.54E 43 4.3
IDC IV 04 08 50 09.8–.46 37.77N 142.47E 43–3 4.3,4.3
NEIC IV 04 08 50 09.0–.31 37.81N 142.53E 35 4.4b,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ45.00000°,λ71.00000°. NP2:ϕ_s105.00000°,δ48.00000°,λ108.00000°. $M_0$4.25000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=10.8km az=109.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=127.0.
JMA IV 04 09 11 24.8–.20 38.39N 143.78E 19 3.5
¶600577308
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 04 09 24 56.9–3.6 37.43N–.05 142.12E–.07 14–22 3.7b 28 1-69
IDC IV 04 09 24 54.9–.96 37.39N 142.21E 0 3.8,3.7 **¶17199753**
JMA IV 04 09 24 58.0–.30 37.44N 142.10E 33–5 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=17.8km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 04 09 39 07.8–.63 36.99N–.03 142.11E–.03 6–3 5.0b,4.6s 718 1-146
NIED IV 04 09 39 00 37.10N 142.00E 17 5.0W,4.6s **¶16406772**
IDC IV 04 09 39 06.8–.43 37.00N 142.16E 0 4.7,4.7
BJI IV 04 09 39 07.8 36.94N 141.93E 12 5.2b,5.0s
JMA IV 04 09 39 08.1–.30 37.07N 142.02E 29–5 5.2,5.0s
ISCJB IV 04 09 39 09.2–.12 37.08N–.02 142.04E–.02 22 4.9b,4.6s
MOS IV 04 09 39 11.4–1.2 37.04N 142.00E 40 5.1b,4.6s
GCMT IV 04 09 39 12.9–.20 37.12N 142.11E 18–1 5.1W,4.6s
NEIC IV 04 09 39 12.8–.15 37.05N 142.05E 35 5.1b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ62.00000°,λ5.00000°. NP2:ϕ_s142.00000°,δ85.00000°,λ152.00000°. $M_0$4.20000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.4km az=131.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.0km az=173.6.
MOS Error ellipse: s-maj=6.5km s-min=4.9km az=105.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c58; s108,c181; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.26±.13 $M_{\theta\theta}$-4.55±.12; $M_{\phi\phi}$3.29±.10; $M_{r\theta}$0.44±.23; $M_{\theta\phi}$1.94±.09; $M_{\phi r}$-1.79±.29; Best double couple: NP1:ϕ_s145.00000°,δ77.00000°,λ155.00000°. NP2:ϕ_s241.00000°,δ65.00000°,λ14.00000°. Principal axes:
T 4.5770,Plg27.0000°,Azm101.0000°; N 0.5410,Plg62.0000°,Azm299.0000°
; P -5.1180,Plg8.0000°,Azm195.0000° $M_0$4.84700×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=2.9km az=157.0.
ISC IV 04 10 11 27.0–.64 37.17N–.07 144.30E–.08 26 3.9b,3.8s 27 5-92
IDC IV 04 10 11 23.9–.69 37.17N 144.39E 0 4.2L,4.1 **¶16577655**
ISCJB IV 04 10 11 25.4–.50 37.02N–.06 144.43E–.08 26 3.9b,3.8s
NEIC IV 04 10 11 28.3–.75 37.23N 144.38E 35 4.2b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.6km az=112.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=8.5km az=39.7.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=12.8km az=108.0.
IDC IV 04 10 29 37.6–3.3 37.92N 144.52E 0 3.8,3.8L
¶17199759
IDC Error ellipse: s-maj=74.5km s-min=41.3km az=56.0.
ISC IV 04 11 27 31.0–1.1 39.7N–.10 143.8E–.10 11 4.0b 16 5-72
ISCJB IV 04 11 27 29.2–.93 39.7N–.10 143.7E–.10 11 4.2s,3.9b **¶16506189**
IDC IV 04 11 27 29.5–1.3 39.72N 143.63E 0 4.1,4.1s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=10.5km az=40.2.
IDC Error ellipse: s-maj=30.1km s-min=20.7km az=123.0.
ISC IV 04 12 31 58.1–1.2 40.00N–.08 143.05E–.09 12 3.6b 19 1-60
IDC IV 04 12 31 55.6–1.6 39.94N 143.12E 0 3.7,3.6 **¶17199766**
ISCJB IV 04 12 31 56.7–1.0 39.99N–.08 143.19E–.09 12 3.5b,3.6
NIED IV 04 12 32 00 40.00N 143.00E 8 3.9W,3.6
JMA IV 04 12 32 00.0–.20 40.04N 142.95E 18–2 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.9km s-min=24.2km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=8.1km az=144.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ4.00000°,λ90.00000°. NP2:ϕ_s39.00000°,δ86.00000°,λ90.00000°. $M_0$7.32000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 04 12 46 33.6–1.4 38.6N–.20 144.4E–.20 29 3.3b 7 5-59
IDC IV 04 12 46 29.3–1.6 38.63N 144.52E 0 3.6,3.5 **¶17199767**
ISCJB IV 04 12 46 31.4–1.3 38.7N–.10 144.4E–.20 29 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 04 12 56 30.0–1.1 36.85N 142.10E 0 3.4,3.3
¶17199769
IDC Error ellipse: s-maj=30.3km s-min=24.0km az=77.0.
ISC IV 04 13 40 23.5–1.5 37.96N–.07 144.03E–.10 35 3.8b 22 2-62
ISCJB IV 04 13 40 22.9–1.0 38.08N–.05 144.04E–.09 35 3.8b **¶17199775**
JMA IV 04 13 40 24.1–.30 38.12N 143.92E 31 3.9
IDC IV 04 13 40 27.2–2.4 37.03N 143.19E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.4km az=171.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=68.4km s-min=24.3km az=62.0.
ISC IV 04 13 48 28.6–.99 36.6N–.20 143.31E–.10 35 3.9b 18 4-80
IDC IV 04 13 48 23.4–1.1 36.57N 143.36E 0 3.9,3.9 **¶16506197**
ISCJB IV 04 13 48 26.5–.69 36.6N–.10 143.29E–.08 33 4.0b,3.9
NEIC IV 04 13 48 27.9–7.0 36.60N 143.33E 30–48 4.9b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=19.1km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=9.4km az=0.2.
NEIC Event type se. Error ellipse: s-maj=25.9km s-min=13.3km az=81.0.
IDC IV 04 14 12 00.5–3.1 36.54N 143.36E 0 3.5,3.3
¶17199778
IDC Error ellipse: s-maj=85.2km s-min=30.1km az=56.0.
ISC IV 04 15 20 51.5–1.7 37.61N–.06 142.26E–.10 21 16 1-61
NIED IV 04 15 20 00 37.70N 142.10E 50 3.5W **¶17199782**
IDC IV 04 15 20 52.0–7.8 37.02N 142.77E 0 3.7,3.5b
JMA IV 04 15 20 55.7–.20 37.73N 142.10E 25 3.5,3.5b
ISCJB IV 04 15 20 56.4–1.7 37.77N–.06 142.1E–.10 21 3.6b,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ30.00000°,λ9.00000°. NP2:ϕ_s134.00000°,δ85.00000°,λ120.00000°. $M_0$2.15000×10^{14}
ISCJB Event type ke.
ISC IV 04 16 09 03.6–.58 34.92N–.06 141.15E–.08 48 3.9b,3.3s 33 0-148
NIED IV 04 16 09 00 35.10N 141.30E 26 4.1W,3.3s **¶16506192**
JMA IV 04 16 09 00.2–.20 35.06N 141.33E 38–4 3.7,3.3s
ISCJB IV 04 16 09 01.9–.45 34.96N–.04 141.18E–.06 48 3.9b,3.3s
IDC IV 04 16 09 04.0–2.1 35.01N 141.13E 46–20 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ41.00000°,λ93.00000°. NP2:ϕ_s195.00000°,δ49.00000°,λ87.00000°. $M_0$1.77000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.2km az=173.7.
IDC Error ellipse: s-maj=18.3km s-min=12.2km az=97.0.
JMA IV 04 17 01 28.0–.30 37.84N 143.44E 34 3.5
NIED IV 04 17 01 00 37.80N 143.40E 14 3.7W **¶600577522**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ63.00000°,λ-13.00000°. NP2:ϕ_s137.00000°,δ78.00000°,λ-153.00000°. $M_0$3.62000×10^{14}
ISC IV 04 19 17 54.2–.59 37.70N–.06 144.03E–.06 35 4.2b,3.3s 77 2-83
IDC IV 04 19 17 49.2–.63 37.71N 144.09E 0 4.3,4.1 **¶16577659**
NEIC IV 04 19 17 51.4–3.4 37.74N 144.12E 14–20 4.6b,4.1
ISCJB IV 04 19 17 52.4–.42 37.74N–.05 143.96E–.04 33 4.2b,3.3s
MOS IV 04 19 17 52.6–1.2 37.79N 144.09E 38 4.6b,3.3s
JMA IV 04 19 17 53.2–.30 37.76N 143.87E 42 4.8,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=13.2km az=130.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.5km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=3.9km az=159.5.
MOS Error ellipse: s-maj=10.1km s-min=6.9km az=97.6.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 04 20 58 09.6–1.2 37.6N–.10 144.2E–.10 35 3.8b 11 5-69
IDC IV 04 20 58 04.2–1.1 37.52N 144.18E 0 3.9,3.8 **¶17199810**
ISCJB IV 04 20 58 07.1–.89 37.4N–.10 144.2E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
JMA IV 04 21 02 31.6–.30 38.29N 144.56E 37 3.9
¶600577651
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 04 21 13 26.6–1.2 36.89N–.07 142.13E–.09 10 3.5b 18 1-57
JMA IV 04 21 13 23.8–.50 36.77N 142.56E 67 3.4 **¶600577656**
ISCJB IV 04 21 13 24.3–1.1 36.86N–.08 142.35E–.10 10 3.5b
IDC IV 04 21 13 26.0–1.6 37.11N 142.06E 0 3.7,3.6b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=10.7km az=145.2.
IDC Error ellipse: s-maj=34.7km s-min=31.3km az=153.0.
ISC IV 04 22 14 02.0–.96 35.4N–.20 142.9E–.20 59 3.8b 10 10-78
IDC IV 04 22 13 54.1–.79 35.35N 142.95E 0 4.1,3.8 **¶17199814**
ISCJB IV 04 22 13 59.9–.72 35.4N–.10 142.8E–.20 59 3.8b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 04 22 49 21.6–.54 38.26N–.05 144.68E–.06 26 4.2b 71 2-118
NIED IV 04 22 49 00 38.40N 144.40E 5 3.9W **¶16577664**
IDC IV 04 22 49 18.1–.76 38.22N 144.76E 0 4.0,3.9
ISCJB IV 04 22 49 20.0–.35 38.27N–.03 144.64E–.04 26 4.5b,3.4s
NEIC IV 04 22 49 20.1–3.0 38.24N 144.76E 14–19 4.5b,3.4s
JMA IV 04 22 49 22.3–.30 38.38N 144.44E 22 4.6,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ24.00000°,λ-84.00000°. NP2:ϕ_s179.00000°,δ66.00000°,λ-93.00000°. $M_0$7.79000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=17.8km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.1km az=155.7.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.6km az=114.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 04 22 55 46.4–.30 38.42N 144.21E 0 3.5
¶600577693
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 04 23 20 18.7–2.2 38.3N–.10 143.1E–.20 18 10 1-58
ISCJB IV 04 23 20 18.7–1.6 38.04N–.08 143.1E–.10 18 3.6b **¶17199818**
JMA IV 04 23 20 19.0–.30 38.17N 142.97E 5–4 3.5
IDC IV 04 23 20 20.2–3.1 37.48N 143.33E 0 3.7,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=11.4km az=163.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=76.0km s-min=37.3km az=55.0.
ISC IV 04 23 38 23.4–2.3 38.39N–.07 143.6E–.10 15 19 2-59
IDC IV 04 23 38 25.7–3.0 38.42N 144.24E 0 3.5,3.4b **¶17199821**
JMA IV 04 23 38 36.2–.30 38.58N 143.07E 35 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=73.6km s-min=37.1km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 05 00 16 12.1–.67 35.99N–.06 142.40E–.08 18 3.8b 27 1-147
IDC IV 05 00 16 08.9–.68 35.91N 142.34E 0 4.0,3.7 **¶17199824**
ISCJB IV 05 00 16 10.1–.52 35.97N–.06 142.42E–.06 18 3.8b,3.7
JMA IV 05 00 16 12.4–.20 36.01N 142.29E 71 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=16.8km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.9km az=170.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 05 01 14 48.3–3.4 37.15N–.09 143.3E–.20 10 3.3b 17 2-57

JMA IV 05 01 14 46.4–.30 37.15N 143.42E 11 3.4 **¶17199830**
IDC IV 05 01 14 52.8–1.4 37.04N 142.94E 0 3.5,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=30.6km az=130.0.
ISC IV 05 02 17 23.0–.77 37.35N–.06 144.11E–.07 35 3.8b 36 2-88
NIED IV 05 02 17 00 37.40N 144.00E 5 3.9W **¶17199833**
IDC IV 05 02 17 17.5–.77 37.25N 144.27E 0 4.0,3.8
ISCJB IV 05 02 17 21.0–.56 37.34N–.05 144.09E–.04 33 3.7b,3.3s
JMA IV 05 02 17 22.3–.30 37.36N 144.02E 55 3.8,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ26.00000°,λ-94.00000°. NP2:ϕ_s255.00000°,δ64.00000°,λ-88.00000°. $M_0$8.86000×10^{14}
IDC Error ellipse: s-maj=25.8km s-min=17.4km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.0km az=178.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 05 02 20 05.0–3.0 37.07N–.04 142.59E–.06 6–18 3.9b 46 1-89
NIED IV 05 02 20 00 37.10N 142.70E 11 4.0W **¶16506218**
IDC IV 05 02 20 04.0–.74 37.01N 142.71E 0 4.1,3.9
JMA IV 05 02 20 05.1–.30 37.06N 142.66E 24–5 4.0,3.9
NEIC IV 05 02 20 07.5–3.5 37.08N 142.69E 21–24 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ45.00000°,λ-77.00000°. NP2:ϕ_s172.00000°,δ46.00000°,λ-103.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=20.5km s-min=16.3km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=8.9km az=128.0.
ISC IV 05 02 35 19.8–.98 38.05N–.06 143.98E–.07 35 3.5b 28 2-90
IDC IV 05 02 35 14.6–.95 37.83N 144.21E 0 3.9,3.9L **¶17199834**
ISCJB IV 05 02 35 17.4–.74 38.07N–.04 143.99E–.05 33 3.6b,3.9L
JMA IV 05 02 35 18.4–.30 38.07N 143.94E 37 4.1,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=19.7km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.2km az=139.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 05 03 35 23.7–.20 39.68N 143.36E 47 3.6
¶600577861
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 05 04 01 38.9–3.5 36.56N 143.78E 0 3.4,3.3
¶17199845
IDC Error ellipse: s-maj=117.1km s-min=29.8km az=173.0.
ISC IV 05 04 42 32.5–.74 35.7N–.10 143.44E–.08 35 4.0b 30 4-146
IDC IV 05 04 42 27.4–.69 35.70N 143.51E 0 4.1,4.0 **¶16506220**
ISCJB IV 05 04 42 30.4–.55 35.66N–.07 143.41E–.06 33 4.2b,4.0
NEIC IV 05 04 42 31.0–3.2 35.71N 143.50E 23–22 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=15.8km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.6km az=157.3.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.1km az=142.0.
IDC IV 05 04 46 10.2–1.4 38.56N 143.28E 0 3.8,3.6b
¶17199848
IDC Error ellipse: s-maj=34.2km s-min=28.3km az=108.0.
ISC IV 05 04 58 30.9–.74 36.17N–.05 142.15E–.08 23 3.5b 27 1-90
IDC IV 05 04 58 27.1–.90 36.02N 142.20E 0 3.8,3.7 **¶17199851**
ISCJB IV 05 04 58 29.0–.54 36.15N–.04 142.20E–.06 23 3.5b,3.7
JMA IV 05 04 58 29.5–.20 36.17N 142.18E 69 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=21.3km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=43.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 05 05 08 27.1–.20 37.09N 143.65E 43 3.5
¶600577923
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 05 05 20 38.8–2.9 36.72N 143.60E 0 3.7,3.6b
¶17199853
IDC Error ellipse: s-maj=82.9km s-min=26.9km az=58.0.
ISC IV 05 05 35 18.1–.94 36.01N–.07 143.23E–.09 35 3.7b 15 2-146
NIED IV 05 05 35 00 36.20N 143.20E 8 3.9W **¶17199855**
IDC IV 05 05 35 13.8–.70 35.92N 143.52E 0 4.0,4.0L
JMA IV 05 05 35 16.8–.30 36.21N 143.23E 53 3.5,4.0L
ISCJB IV 05 05 35 17.0–.57 35.86N–.06 143.18E–.07 33 3.8b,4.0L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ26.00000°,λ-124.00000°. NP2:ϕ_s225.00000°,δ68.00000°,λ-74.00000°. $M_0$7.55000×10^{14}
ISCJB Event type ke.
ISC IV 05 05 53 53.8–1.4 36.8N–.20 143.60E–.09 35 3.6b 17 2-76
IDC IV 05 05 53 46.8–3.6 36.52N 143.82E 0 3.7,3.6 **¶17199856**
JMA IV 05 05 53 50.3–.20 36.65N 143.56E 56 3.4,3.6
ISCJB IV 05 05 53 51.1–.99 36.8N–.10 143.62E–.06 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 05 06 20 30.1–.20 38.29N 144.37E 11 3.9
¶600577963
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 05 06 44 23.7–3.0 36.15N–.05 143.24E–.04 28–22 4.0b 52 2-146
NIED IV 05 06 44 00 36.20N 143.20E 8 4.0W **¶16577671**
IDC IV 05 06 44 19.3–.65 36.02N 143.40E 0 4.0,3.9
JMA IV 05 06 44 22.5–.20 36.19N 143.22E 71 3.6,3.9
NEIC IV 05 06 44 24.3–.53 35.95N 143.32E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ24.00000°,λ-90.00000°. NP2:ϕ_s205.00000°,δ66.00000°,λ-90.00000°. $M_0$1.08000×10^{15}
IDC Error ellipse: s-maj=18.0km s-min=15.1km az=159.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.7km az=168.0.
IDC IV 05 07 31 23.4–3.4 35.22N 142.57E 0 3.3,3.3L
¶17199865
IDC Error ellipse: s-maj=109.8km s-min=28.8km az=61.0.
IDC IV 05 08 23 44.4–13 37.77N 143.96E 0 4.3,4.3s
¶17199870
IDC Error ellipse: s-maj=278.5km s-min=52.1km az=17.0.
ISC IV 05 09 24 05.3–.77 37.5N–.10 144.8E–.10 35 3.4b 14 5-75
ISCJB IV 05 09 24 03.2–.73 37.6N–.10 144.8E–.10 33 3.4b **¶17199873**
IDC IV 05 09 24 05.5–.84 37.67N 144.68E 33–6 3.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=8.8km az=153.4.
IDC Error ellipse: s-maj=42.4km s-min=14.7km az=116.0.
JMA IV 05 10 04 11.6–.20 37.21N 142.50E 25 3.6
¶600578057
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 05 11 45 13.5–1.3 37.27N–.06 142.7E–.10 21 3.6b 22 1-118
IDC IV 05 11 45 09.4–2.2 37.09N 142.96E 0 3.8,3.8b **¶600578146**
JMA IV 05 11 45 10.5–.30 37.34N 142.52E 1–3 4.1,3.8b
ISCJB IV 05 11 45 12.6–1.0 37.34N–.07 142.63E–.08 21 3.6b,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 11 54 53.3–1.4 37.37N–.07 142.3E–.10 21 3.7b 14 1-57
IDC IV 05 11 54 49.5–2.2 37.33N 142.61E 0 3.7,3.6 **¶17199890**
JMA IV 05 11 54 49.5–.30 37.37N 142.37E 0 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=28.3km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 05 13 29 57.7–.87 37.9N–.10 144.0E–.10 35 3.8b 20 2-144
IDC IV 05 13 29 53.1–.73 37.97N 144.19E 0 4.0,3.8 **¶16506210**
NEIC IV 05 13 29 54.4–.57 38.00N 144.11E 10 4.3b,3.8
JMA IV 05 13 30 06.9–.20 38.91N 142.69E 27–2 2.9,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=14.9km az=123.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=8.4km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 13 50 59.7–.87 36.31N–.05 142.31E–.08 15 4.2b 35 1-64
IDC IV 05 13 50 57.6–1.0 36.44N 142.40E 0 3.8,3.8 **¶16506212**
ISCJB IV 05 13 50 58.1–.60 36.33N–.04 142.36E–.07 15 4.0b,3.8
NEIC IV 05 13 51 01.3–2.7 36.37N 142.34E 23–19 4.4b,3.8
JMA IV 05 13 51 01.6–.30 36.29N 142.14E 73 3.4,3.8
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=17.8km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.6km az=28.6.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=8.8km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 05 13 55 17.8–.20 37.43N 144.61E 22 4.1
¶600578269
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 05 14 06 57.0–1.6 36.9N–.20 144.5E–.10 10 3.7b 12 3-61
IDC IV 05 14 06 56.4–3.0 36.61N 144.42E 0 3.6,3.4b **¶17199900**
JMA IV 05 14 07 23.3–.40 38.29N 143.77E 35 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=81.8km s-min=32.0km az=58.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 05 14 27 18.3–.68 36.50N–.06 142.59E–.07 15 3.8b 32 2-90
NIED IV 05 14 27 00 36.50N 142.70E 8 3.9W **¶16506215**
ISCJB IV 05 14 27 16.7–.51 36.50N–.06 142.71E–.06 15 3.9s,3.7b
IDC IV 05 14 27 16.3–.73 36.54N 142.64E 0 3.8s,3.8
JMA IV 05 14 27 18.4–.30 36.51N 142.72E 36 3.6,3.8
NEIC IV 05 14 27 21.4–.57 36.55N 142.65E 35 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ41.00000°,λ114.00000°. NP2:ϕ_s2.00000°,δ53.00000°,λ71.00000°. $M_0$8.60000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=6.7km az=163.0.
IDC Error ellipse: s-maj=20.3km s-min=15.7km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.8km az=138.0.
ISC IV 05 14 34 24.9–1.1 37.48N–.05 143.68E–.08 35 3.5b 26 2-62
IDC IV 05 14 34 20.3–1.2 37.47N 143.79E 0 3.7,3.5 **¶17199903**
ISCJB IV 05 14 34 23.4–.81 37.48N–.05 143.65E–.06 33 3.4b,3.5
JMA IV 05 14 34 24.2–.20 37.49N 143.59E 49 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=34.0km s-min=24.6km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.6km az=44.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 05 14 59 08.1–.84 40.2N–.20 144.3E–.20 34 3.7b 10 6-86
IDC IV 05 14 59 03.0–.91 40.03N 144.42E 0 4.4L,3.9 **¶17199907**
ISCJB IV 05 14 59 06.1–.69 40.1N–.10 144.3E–.30 34 3.9s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 15 46 51.1–.71 36.07N–.05 143.35E–.07 35 3.6b 40 2-89
IDC IV 05 15 46 45.7–.76 35.90N 143.50E 0 3.9,3.7 **¶17199910**
ISCJB IV 05 15 46 49.9–.55 36.13N–.04 143.30E–.04 33 3.6b,3.5s
JMA IV 05 15 46 49.8–.30 36.14N 143.31E 80 3.3,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=20.5km s-min=16.8km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.5km az=168.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC IV 05 16 23 36.7–2.6 36.14N 142.73E 0 3.3b,3.3
¶17199914
IDC Error ellipse: s-maj=78.4km s-min=30.0km az=62.0.
ISC IV 05 17 09 55.2–.74 36.66N–.05 142.32E–.06 15 3.8b 46 1-91
NIED IV 05 17 09 00 36.70N 142.40E 20 3.8W **¶16577680**
ISCJB IV 05 17 09 53.1–.47 36.59N–.04 142.48E–.06 15 3.9b,3.2s
JMA IV 05 17 09 53.8–.30 36.68N 142.44E 13 4.0,3.2s
IDC IV 05 17 09 53.4–.99 36.56N 142.31E 0 3.9L,3.7
NEIC IV 05 17 09 57.5–.65 36.61N 142.44E 35 4.5b,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ23.00000°,λ93.00000°. NP2:ϕ_s19.00000°,δ67.00000°,λ89.00000°. $M_0$5.94000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.2km az=169.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=16.7km az=101.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.4km az=125.0.
ISC IV 05 17 37 28.0–.93 37.99N–.06 143.58E–.09 19 4.0s,3.6b 24 2-62
NIED IV 05 17 37 00 38.30N 143.40E 5 3.9W,3.6b **¶17199917**
IDC IV 05 17 37 25.1–.93 37.99N 143.71E 0 3.8,3.7
ISCJB IV 05 17 37 26.2–.68 37.99N–.06 143.58E–.07 19 3.9s,3.7b
JMA IV 05 17 37 27.2–.40 38.27N 143.45E 1 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ29.00000°,λ-155.00000°. NP2:ϕ_s237.00000°,δ78.00000°,λ-64.00000°. $M_0$7.99000×10^{14}
IDC Error ellipse: s-maj=23.1km s-min=16.4km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.7km az=176.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 05 18 12 55.5–.40 37.83N 142.63E 11–5 3.9
¶17199918
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 05 19 47 30.0–.58 35.47N–.03 142.99E–.04 23–3 4.9b,4.2s 593 2-153
NIED IV 05 19 47 00 35.50N 142.90E 5 4.8W,4.2s **¶16410392**
IDC IV 05 19 47 26.3–.46 35.41N 142.98E 0 4.7,4.6
ISCJB IV 05 19 47 28.2–.86 35.55N–.03 142.90E–.02 15–5 4.8b,4.2s
NEIC IV 05 19 47 29.0–1.5 35.44N 142.93E 15–9 5.0b,4.2s
GCMT IV 05 19 47 29.0–.30 35.52N 143.02E 12 4.8W,4.2s
JMA IV 05 19 47 29.8–.30 35.53N 142.91E 73 4.7,4.2s
BJI IV 05 19 47 30.2 35.66N 143.01E 38 5.0b,4.6b
MOS IV 05 19 47 32.5–.90 35.92N 142.87E 35 5.1b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ29.00000°,λ-97.00000°. NP2:ϕ_s229.00000°,δ61.00000°,λ-86.00000°. $M_0$1.99000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.1km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.5km az=173.2.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=146.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c27; s79,c131; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.29±.06 $M_{\theta\theta}$1.41±.07; $M_{\phi\phi}$0.87±.06; $M_{r\theta}$-0.08±.25; $M_{\theta\phi}$0.96±.05; $M_{\phi r}$-0.09±.28; Best double couple: NP1:ϕ_s52.00000°,δ46.00000°,λ-91.00000°. NP2:ϕ_s233.00000°,δ44.00000°,λ-89.00000°. Principal axes: T 2.1470,Plg1.0000°,Azm143.0000°; N 0.1450,Plg1.0000°,Azm53.0000°; P -2.2930,Plg88.0000°,Azm302.0000° $M_0$2.22000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=105.7.
ISC IV 05 19 57 17.8–1.0 37.16N–.07 143.98E–.08 35 3.5b 28 2-61
IDC IV 05 19 57 12.7–1.1 37.01N 144.10E 0 3.7,3.6 **¶17199921**
ISCJB IV 05 19 57 16.0–.73 37.15N–.06 143.93E–.06 33 3.5b,3.6
JMA IV 05 19 57 17.5–.30 37.21N 143.84E 45 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.5km s-min=18.8km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.7km az=19.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC IV 05 20 02 24.1–2.6 37.13N 142.53E 0 3.5,3.5b
¶17199923
IDC Error ellipse: s-maj=68.7km s-min=29.3km az=63.0.
ISC IV 05 20 23 55.7–1.7 36.10N–.06 142.9E–.10 35 18 2-70
IDC IV 05 20 23 49.4–3.3 36.18N 143.26E 0 3.6,3.5 **¶17199925**
ISCJB IV 05 20 23 54.4–1.2 36.07N–.05 142.88E–.10 33 3.8s,3.5b
JMA IV 05 20 23 54.0–.30 36.09N 142.81E 19 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=65.2km s-min=37.6km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.2km az=160.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 05 20 28 57.6–1.1 36.70N–.06 143.70E–.09 35 3.5b 27 2-61
NIED IV 05 20 28 00 36.70N 143.60E 5 3.4W **¶17199926**
IDC IV 05 20 28 52.7–1.2 36.66N 143.99E 0 3.6,3.5
ISCJB IV 05 20 28 56.3–.79 36.68N–.06 143.62E–.06 33 3.5b,3.5
JMA IV 05 20 28 56.9–.30 36.75N 143.60E 48 3.5,3.5
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ39.00000°,λ-103.00000°. NP2:ϕ_s211.00000°,δ52.00000°,λ-79.00000°. $M_0$1.65000×10^{14}
IDC Error ellipse: s-maj=29.6km s-min=21.1km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.9km az=18.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 05 20 41 28.2–.20 37.68N 142.08E 13–2 3.6 ¶600578516
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 05 21 06 07.9–1.5 37.71N–.07 144.60E–.09 35 23 3-58
IDC IV 05 21 06 02.8–3.4 37.66N 144.86E 0 3.8,3.7b **¶17199929**
ISCJB IV 05 21 06 05.8–1.1 37.77N–.05 144.59E–.07 33 3.7b,3.7b
JMA IV 05 21 06 05.5–.40 37.68N 144.58E 45 3.6,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=80.2km s-min=41.6km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.2km az=23.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 05 21 30 39.2–.20 36.21N 142.97E 46 3.5
NIED IV 05 21 30 00 36.20N 143.00E 5 3.5W **¶600578538**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ30.00000°,λ-60.00000°. NP2:ϕ_s190.00000°,δ64.00000°,λ-106.00000°. $M_0$2.00000×10^{14}
ISC IV 05 21 35 30.1–1.0 39.56N–.07 144.70E–.07 23 3.9b 36 2-73
NIED IV 05 21 35 00 39.60N 144.60E 8 3.8W **¶17199931**
IDC IV 05 21 35 25.6–1.7 39.29N 144.92E 0 4.2L,4.0
ISCJB IV 05 21 35 29.0–.68 39.62N–.04 144.62E–.05 23 3.7b,4.0
JMA IV 05 21 35 30.1–.20 39.56N 144.60E 46 3.9,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ27.00000°,λ-63.00000°. NP2:ϕ_s167.00000°,δ66.00000°,λ-103.00000°. $M_0$4.85000×10^{14}
IDC Error ellipse: s-maj=43.9km s-min=21.7km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=139.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC IV 05 22 09 43.3–2.6 37.49N 144.70E 0 4.2,4.2s ¶17199932
IDC Error ellipse: s-maj=57.9km s-min=34.4km az=54.0.
ISC IV 05 23 13 43.6–.64 38.02N–.08 143.54E–.07 19 4.2b,3.2s 49 2-145
NIED IV 05 23 13 00 38.00N 143.60E 8 4.1W,3.2s **¶16577691**
IDC IV 05 23 13 40.2–.64 37.91N 143.64E 0 4.3,4.1
ISCJB IV 05 23 13 41.7–.45 37.99N–.05 143.55E–.05 19 4.2b,3.3s
JMA IV 05 23 13 42.4–.20 38.01N 143.59E 41 4.2,3.3s
NEIC IV 05 23 13 45.6–.39 37.98N 143.55E 35 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ26.00000°,λ-82.00000°. NP2:ϕ_s201.00000°,δ64.00000°,λ-94.00000°. $M_0$1.83000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=14.3km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.1km az=169.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.9km az=149.0.
ISC IV 05 23 23 44.5–.89 38.00N–.06 144.21E–.07 35 3.7b 35 2-80
NIED IV 05 23 23 00 38.00N 144.10E 11 3.7W **¶17199938**
IDC IV 05 23 23 39.2–.81 37.68N 144.51E 0 4.0,3.7L
ISCJB IV 05 23 23 43.1–.68 38.07N–.05 144.18E–.05 33 3.7b,3.5s
JMA IV 05 23 23 43.4–.20 38.04N 144.11E 34 4.0,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ25.00000°,λ-92.00000°. NP2:ϕ_s187.00000°,δ65.00000°,λ-89.00000°. $M_0$3.83000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=18.0km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.6km az=168.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 05 23 35 35.4–1.4 37.97N–.05 144.24E–.06 5–8 4.3b 97 2-118
NIED IV 05 23 35 00 38.00N 144.10E 5 3.9W **¶16506209**
IDC IV 05 23 35 34.3–.74 37.82N 144.35E 0 4.0,4.0
JMA IV 05 23 35 38.7–.20 37.99N 144.13E 46 4.4,4.0
NEIC IV 05 23 35 39.3–.31 37.81N 144.40E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ26.00000°,λ-60.00000°. NP2:ϕ_s151.00000°,δ67.00000°,λ-104.00000°. $M_0$7.43000×10^{14}
IDC Error ellipse: s-maj=18.8km s-min=16.1km az=123.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=7.3km az=165.0.
ISC IV 05 23 38 37.8–.63 37.97N–.05 144.26E–.06 35 4.0b 71 2-118
IDC IV 05 23 38 32.4–.90 37.74N 144.37E 0 4.0,3.9 **¶16577693**
NEIC IV 05 23 38 33.8–.32 37.72N 144.43E 10 4.5b,3.9
ISCJB IV 05 23 38 36.6–.45 37.99N–.04 144.17E–.04 33 4.2b,3.9
JMA IV 05 23 38 37.2–.30 37.99N 144.11E 41 4.2,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=17.0km az=139.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=163.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 05 23 50 34.5–1.1 37.7N–.20 143.7E–.10 35 3.6b 12 5-62
IDC IV 05 23 50 29.4–.97 37.75N 143.86E 0 3.7,3.6b **¶17199940**
ISCJB IV 05 23 50 32.3–.84 37.7N–.10 143.7E–.10 33 3.6b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 00 17 16.0–.66 38.99N–.07 144.67E–.06 19 4.2b 61 2-118
NIED IV 06 00 17 00 39.10N 144.40E 5 3.7W **¶16577694**
IDC IV 06 00 17 12.4–.96 38.74N 144.89E 0 3.9,3.8
ISCJB IV 06 00 17 14.6–.46 38.95N–.05 144.60E–.04 19 4.2b,3.4s
JMA IV 06 00 17 17.6–.20 39.13N 144.35E 10 3.8,3.4s
NEIC IV 06 00 17 17.4–.73 38.84N 144.77E 35 4.5b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ32.00000°,λ-76.00000°. NP2:ϕ_s185.00000°,δ59.00000°,λ-98.00000°. $M_0$3.65000×10^{14}
IDC Error ellipse: s-maj=23.1km s-min=17.9km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=168.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=13.5km az=153.0.
IDC IV 06 00 23 24.4–1.3 38.76N 145.01E 0 3.8,3.7 ¶17199942
IDC Error ellipse: s-maj=39.6km s-min=19.7km az=76.0.
ISC IV 06 01 09 25.0–1.2 37.95N–.08 143.54E–.10 19 3.4b 20 2-58
NIED IV 06 01 09 00 38.10N 143.30E 8 3.5W **¶17199943**
IDC IV 06 01 09 21.4–1.4 37.86N 143.76E 0 3.7,3.5b
ISCJB IV 06 01 09 23.3–.97 37.93N–.07 143.58E–.08 19 3.4b,3.5b
JMA IV 06 01 09 24.9–.30 38.08N 143.31E 1 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ50.00000°,λ-173.00000°. NP2:ϕ_s233.00000°,δ85.00000°,λ-41.00000°. $M_0$1.82000×10^{14}
IDC Error ellipse: s-maj=32.0km s-min=28.8km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=9.1km az=13.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 01 12 20.6–3.0 37.50N–.04 143.62E–.07 4–18 4.0b 55 2-75
NIED IV 06 01 12 00 37.70N 143.50E 26 4.0W **¶16529566**
IDC IV 06 01 12 21.2–.75 37.44N 143.51E 0 4.0,3.9
NEIC IV 06 01 12 24.4–6.0 37.53N 143.63E 19–36 4.1b,3.9
JMA IV 06 01 12 25.0–.30 37.66N 143.54E 45 4.3,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ63.00000°,λ-176.00000°. NP2:ϕ_s242.00000°,δ86.00000°,λ-27.00000°. $M_0$1.09000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=15.4km az=101.0.
NEIC Event type se. Error ellipse: s-maj=19.9km s-min=12.0km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 01 23 44.6–.55 36.39N–.05 142.04E–.06 19 4.2b,3.4s 51 1-147
NIED IV 06 01 23 00 36.40N 141.90E 20 4.2W,3.4s **¶16506224**
IDC IV 06 01 23 41.6–.65 36.41N 142.02E 0 4.2,4.1
ISCJB IV 06 01 23 42.8–.42 36.43N–.04 142.09E–.05 19 4.1b,3.3s
JMA IV 06 01 23 45.4–.20 36.45N 141.95E 54 4.2,3.3s
NEIC IV 06 01 23 48.0–.96 36.39N 141.91E 45–8 4.5b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s244.00000°,δ10.00000°,λ142.00000°. NP2:ϕ_s12.00000°,δ84.00000°,λ82.00000°. $M_0$2.44000×10^{15}

IDC Error ellipse: s-maj=16.8km s-min=14.3km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.7km az=139.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.8km az=120.0.
ISC IV 06 01 35 40.9–.65 36.31N–.07 142.57E–.07 15 3.7b 34 2-118
NIED IV 06 01 35 00 36.30N 142.50E 23 3.8W **¶17199945**
ISCJB IV 06 01 35 38.9–.51 36.28N–.06 142.62E–.05 15 3.7b
IDC IV 06 01 35 38.1–.71 36.26N 142.75E 0 3.9,3.8
JMA IV 06 01 35 41.8–.20 36.34N 142.55E 49 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ2.00000°,λ30.00000°. NP2:ϕ_s71.00000°,δ89.00000°,λ92.00000°. $M_0$5.81000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.3km az=154.5.
IDC Error ellipse: s-maj=18.1km s-min=16.6km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 01 48 01.0–.54 36.34N–.05 142.56E–.06 15 4.1b 54 2-146
IDC IV 06 01 47 58.6–.58 36.31N 142.68E 0 4.1,4.0 **¶16529567**
ISCJB IV 06 01 47 59.3–.42 36.33N–.04 142.64E–.04 15 4.1b,4.0
NIED IV 06 01 48 00 36.30N 142.60E 17 3.9W,4.0
JMA IV 06 01 48 01.3–.20 36.34N 142.63E 48 3.8,4.0
NEIC IV 06 01 48 04.1–.42 36.39N 142.60E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=13.8km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.9km az=142.4.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s156.00000°,δ19.00000°,λ-158.00000°. NP2:ϕ_s45.00000°,δ83.00000°,λ-73.00000°. $M_0$7.23000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.5km az=158.0.
ISC IV 06 01 51 27.2–1.5 37.74N–.06 144.57E–.05 28–9 4.6b,3.6s 215 3-149
NIED IV 06 01 51 00 37.80N 144.40E 5 4.3W,3.6s **¶16410398**
IDC IV 06 01 51 22.6–.55 37.67N 144.62E 0 4.5,4.4
ISCJB IV 06 01 51 23.5–1.1 37.70N–.03 144.49E–.03 14–6 4.5b,3.7s
BJI IV 06 01 51 25.8 37.95N 144.73E 31 4.9b,4.6b
NEIC IV 06 01 51 25.2–2.0 37.65N 144.57E 16–12 4.7b,4.6b
MOS IV 06 01 51 26.1–.98 37.70N 144.55E 32 4.7b,4.6b
JMA IV 06 01 51 27.1–.30 37.79N 144.38E 54 4.7,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s280.00000°,δ15.00000°,λ-82.00000°. NP2:ϕ_s92.00000°,δ75.00000°,λ-92.00000°. $M_0$2.79000×10^{15}
IDC Error ellipse: s-maj=15.7km s-min=11.4km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.4km az=158.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.7km az=141.0.
MOS Error ellipse: s-maj=8.7km s-min=6.1km az=100.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 06 03 13 02.6–.64 36.76N–.04 142.10E–.07 36–1 4.2b,3.8s 71 1-90
NIED IV 06 03 12 00 36.80N 142.20E 20 4.4W,3.8s **¶16506225**
JMA IV 06 03 12 59.6–.30 36.75N 142.16E 33 4.4,3.8s
ISCJB IV 06 03 13 00.6–.77 36.73N–.04 142.12E–.06 36–6 4.2b,3.8s
NEIC IV 06 03 13 03.0–.80 36.71N 142.07E 42–6 4.7b,3.8s
IDC IV 06 03 13 03.4–1.9 36.67N 142.05E 47–18 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ20.00000°,λ96.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ88.00000°. $M_0$3.99000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.4km az=21.9.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.4km az=135.0.
IDC Error ellipse: s-maj=17.2km s-min=13.6km az=111.0.
ISC IV 06 03 14 12.3–.45 37.47N–.05 144.52E–.04 35 4.7b,4.2s 466 3-144
NIED IV 06 03 14 00 37.50N 144.20E 5 4.6W,4.2s **¶16410400**
IDC IV 06 03 14 06.6–.54 37.28N 144.45E 0 4.6,4.5
NEIC IV 06 03 14 08.5–.25 37.36N 144.55E 10 4.8b,4.5
MOS IV 06 03 14 10.3–1.2 37.41N 144.50E 32 4.9b,4.5
BJI IV 06 03 14 10.6 37.55N 144.68E 40 4.9b,4.6b
ISCJB IV 06 03 14 11.6–.17 37.62N–.03 144.42E–.02 33 4.6b,4.0s
JMA IV 06 03 14 13.4–.30 37.54N 144.25E 45 4.3,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ14.00000°,λ-110.00000°. NP2:ϕ_s250.00000°,δ77.00000°,λ-85.00000°. $M_0$8.13000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.6km az=127.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.6km az=161.0.
MOS Error ellipse: s-maj=8.9km s-min=5.7km az=100.4.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.4km az=6.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 06 03 26 51.0–2.5 38.45N–.05 143.11E–.09 8–15 3.6b 27 1-62
NIED IV 06 03 26 00 38.50N 143.10E 8 3.9W **¶17199951**
IDC IV 06 03 26 50.6–1.1 38.22N 143.70E 0 3.8,3.7
JMA IV 06 03 26 52.2–.30 38.51N 143.09E 2–4 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ50.00000°,λ162.00000°. NP2:ϕ_s121.00000°,δ77.00000°,λ42.00000°. $M_0$8.53000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=18.9km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 06 03 51 37.5–.82 35.40N–.08 142.69E–.09 59 3.4b 19 2-78
NIED IV 06 03 51 00 35.60N 142.90E 5 3.7W **¶17199956**
IDC IV 06 03 51 30.0–.81 35.45N 142.89E 0 3.7,3.7L
JMA IV 06 03 51 33.4–.30 35.58N 142.95E 74 3.5,3.7L
ISCJB IV 06 03 51 35.9–.64 35.40N–.07 142.69E–.07 59 3.4b,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ38.00000°,λ-62.00000°. NP2:ϕ_s169.00000°,δ57.00000°,λ-110.00000°. $M_0$3.45000×10^{14}
ISCJB Event type ke.
ISC IV 06 04 30 49.8–.60 37.92N–.06 144.59E–.06 35 3.8b,3.2s 54 3-144
NIED IV 06 04 30 00 38.10N 144.50E 5 4.0W,3.2s **¶16509621**
IDC IV 06 04 30 44.8–.62 37.86N 144.74E 0 4.4L,4.1
NEIC IV 06 04 30 46.4–.49 37.80N 144.79E 10 4.2b,4.1
ISCJB IV 06 04 30 48.1–.45 37.93N–.05 144.52E–.04 33 3.9b,3.2s
JMA IV 06 04 30 49.0–.20 38.10N 144.50E 47 4.4,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ57.00000°,λ-13.00000°. NP2:ϕ_s139.00000°,δ79.00000°,λ-146.00000°. $M_0$1.10000×10^{15}
IDC Error ellipse: s-maj=18.3km s-min=14.5km az=125.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.9km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=178.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 06 04 37 47.2–3.2 37.34N 143.52E 0 3.7,3.5b ¶17199962
IDC Error ellipse: s-maj=77.4km s-min=36.9km az=56.0.
ISC IV 06 04 44 25.5–.99 39.00N–.08 144.27E–.07 23 3.6b 27 2-87
NIED IV 06 04 44 00 39.00N 144.10E 5 3.6W **¶17199964**
IDC IV 06 04 44 21.8–1.1 38.78N 144.43E 0 3.8,3.6
ISCJB IV 06 04 44 24.0–.73 39.01N–.06 144.22E–.05 23 3.5b,3.1s
JMA IV 06 04 44 25.8–.20 39.03N 144.14E 34 3.7,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s233.00000°,δ41.00000°,λ-38.00000°. NP2:ϕ_s354.00000°,δ66.00000°,λ-124.00000°. $M_0$3.19000×10^{14}
IDC Error ellipse: s-maj=29.0km s-min=22.8km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.4km az=162.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 06 04 46 44.2–.79 35.59N–.06 142.67E–.08 59 3.5b 27 1-90
IDC IV 06 04 46 36.1–.80 35.40N 143.06E 0 3.8,3.7 **¶17199965**
JMA IV 06 04 46 37.8–.40 35.56N 143.04E 57 3.7,3.7
ISCJB IV 06 04 46 42.0–.64 35.56N–.06 142.69E–.07 59 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 05 20 36.2–1.7 37.65N–.08 143.3E–.10 35 3.7b 19 2-58
IDC IV 06 05 20 29.8–2.7 37.61N 143.71E 0 3.7,3.5 **¶17199969**
JMA IV 06 05 20 33.3–.40 37.65N 143.39E 40 3.6,3.5
ISCJB IV 06 05 20 34.3–1.2 37.65N–.07 143.35E–.09 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 06 06 58.4–.51 37.38N–.04 142.41E–.03 13–2 4.8b,4.0s 563 1-154

NIED IV 06 06 06 00 37.30N 142.50E 8 4.7W,4.0s **¶16411042**
JMA IV 06 06 06 54.1–.20 37.32N 142.49E 0 4.8,4.0s
ISCJB IV 06 06 06 55.5–.85 37.30N–.02 142.42E–.02 4–5 4.7b,4.0s
IDC IV 06 06 06 55.9–.46 37.31N 142.45E 0 4.7,4.6
BJI IV 06 06 06 58.0 37.21N 142.60E 35 4.9b,4.8b
MOS IV 06 06 07 00.7–.90 37.63N 142.32E 28 5.0b,4.8b
NEIC IV 06 06 07 02.5–.65 37.34N 142.36E 40–5 4.9b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ44.00000°,λ-104.00000°. NP2:ϕ_s186.00000°,δ47.00000°,λ-76.00000°. $M_0$1.23000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.7km az=172.7.
IDC Error ellipse: s-maj=12.2km s-min=11.6km az=121.0.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=103.1.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=146.0.
ISC IV 06 06 12 51.0–4.1 37.31N–.08 142.4E–.10 23–28 3.8b 19 1-77
IDC IV 06 06 12 47.3–.91 37.22N 142.59E 0 3.9,3.9s **¶17199973**
JMA IV 06 06 12 48.6–.30 37.31N 142.47E 9–4 4.0,3.9s
ISCJB IV 06 06 12 49.4–2.6 37.26N–.06 142.55E–.07 27–20 3.7s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 06 35 12.6–.83 39.02N–.08 144.58E–.08 19 4.0b 38 2-87
NIED IV 06 06 35 00 39.10N 144.50E 5 3.8W **¶16577695**
IDC IV 06 06 35 08.8–1.1 38.83N 144.69E 0 4.1,3.9
ISCJB IV 06 06 35 11.0–.59 39.00N–.06 144.57E–.05 19 3.9b,3.9
JMA IV 06 06 35 12.9–.30 39.13N 144.46E 19 3.9,3.9
NEIC IV 06 06 35 13.7–3.4 38.83N 144.66E 33–24 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ31.00000°,λ-80.00000°. NP2:ϕ_s185.00000°,δ60.00000°,λ-96.00000°. $M_0$6.52000×10^{14}
IDC Error ellipse: s-maj=25.4km s-min=19.5km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.4km az=167.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=9.7km az=135.0.
JMA IV 06 06 59 50.6–.20 37.74N 144.36E 41 3.6
¶600578770
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 06 07 30 07.1–1.4 36.41N–.04 142.87E–.09 29 26 2-57
ISCJB IV 06 07 30 06.8–1.0 36.42N–.04 142.81E–.09 29 3.5b **¶17199981**
IDC IV 06 07 30 06.3–2.6 36.01N 142.94E 0 3.6,3.6
JMA IV 06 07 30 08.1–.30 36.42N 142.69E 94 3.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.1km az=17.6.
IDC Error ellipse: s-maj=48.6km s-min=30.2km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 06 07 42 39.8–2.6 37.4N–.10 142.4E–.20 21 12 1-45
NIED IV 06 07 42 00 37.40N 142.40E 11 3.5W **¶17199982**
IDC IV 06 07 42 25.2–13 37.07N 144.27E 0 3.6,3.6b
JMA IV 06 07 42 35.7–.30 37.36N 142.40E 1–3 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s46.00000°,δ64.00000°,λ-85.00000°. $M_0$1.81000×10^{14}
IDC Error ellipse: s-maj=237.3km s-min=76.9km az=136.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 06 07 48 06.5–.91 38.34N–.07 144.69E–.07 29 3.6b 26 3-75
NIED IV 06 07 48 00 38.30N 144.60E 5 3.7W **¶17199983**
IDC IV 06 07 48 02.1–1.1 38.26N 144.95E 0 3.9,3.7
ISCJB IV 06 07 48 04.6–.73 38.27N–.06 144.64E–.05 29 3.6b,3.0s
JMA IV 06 07 48 05.4–.30 38.32N 144.56E 27 4.1,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ40.00000°,λ-95.00000°. NP2:ϕ_s53.00000°,δ50.00000°,λ-86.00000°. $M_0$4.30000×10^{14}
IDC Error ellipse: s-maj=27.2km s-min=21.0km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.4km az=164.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 06 10 34 06.9–.99 39.45N–.07 143.92E–.09 11 3.7b 33 2-74
NIED IV 06 10 34 00 39.40N 144.00E 11 3.9W **¶17199995**
JMA IV 06 10 34 02.4–.30 39.39N 143.99E 0 4.1
ISCJB IV 06 10 34 04.7–.81 39.45N–.05 143.96E–.09 11 3.6b,3.0s
IDC IV 06 10 34 04.8–1.3 39.31N 143.96E 0 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ39.00000°,λ107.00000°. NP2:ϕ_s9.00000°,δ53.00000°,λ77.00000°. $M_0$6.79000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=4.4km az=29.7.
IDC Error ellipse: s-maj=28.1km s-min=23.7km az=104.0.
ISC IV 06 11 17 44.1–1.5 36.44N–.05 143.45E–.10 35 20 2-60
ISCJB IV 06 11 17 42.7–.96 36.48N–.04 143.41E–.07 33 3.5b **¶17199999**
IDC IV 06 11 17 42.3–3.5 36.12N 143.45E 0 3.6,3.5
JMA IV 06 11 17 44.6–.30 36.47N 143.32E 67 3.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.2km az=168.5.
IDC Error ellipse: s-maj=63.6km s-min=40.4km az=13.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 06 11 37 37.1–.75 36.12N–.05 143.02E–.07 35 3.7b 29 2-146
NIED IV 06 11 37 00 36.20N 143.00E 5 3.8W **¶17200001**
IDC IV 06 11 37 32.0–.78 36.00N 143.17E 0 3.8,3.7
ISCJB IV 06 11 37 35.4–.61 36.18N–.05 143.02E–.06 33 3.7b,3.7
JMA IV 06 11 37 36.0–.20 36.21N 143.00E 63 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ32.00000°,λ-83.00000°. NP2:ϕ_s207.00000°,δ58.00000°,λ-94.00000°. $M_0$5.47000×10^{14}
IDC Error ellipse: s-maj=25.9km s-min=18.1km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.0km az=44.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 06 14 03 38.2–.30 37.60N 143.50E 33 3.6
¶600579014
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 06 15 21 51.2–1.1 37.15N–.06 142.42E–.07 9 3.4b 21 1-61
ISCJB IV 06 15 21 49.1–.79 37.08N–.05 142.62E–.07 9 3.4b **¶17200019**
IDC IV 06 15 21 50.3–1.2 37.06N 142.56E 0 3.6,3.4
JMA IV 06 15 21 51.0–.20 37.17N 142.61E 27 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.6km az=141.6.
IDC Error ellipse: s-maj=35.2km s-min=22.5km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 16 06 05.1–.54 38.32N–.05 144.08E–.06 35 3.9b 87 2-145
IDC IV 06 16 05 59.7–.57 38.16N 144.25E 0 4.0,4.0 **¶16525085**
NIED IV 06 16 06 00 38.30N 144.10E 8 4.1W,4.0
JMA IV 06 16 06 02.7–.20 38.27N 144.09E 45 4.4,4.0
ISCJB IV 06 16 06 03.4–.38 38.26N–.04 144.04E–.04 33 3.9b,4.0
NEIC IV 06 16 06 04.8–.35 38.17N 144.18E 35 4.6b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=13.0km az=127.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ30.00000°,λ-75.00000°. NP2:ϕ_s183.00000°,δ61.00000°,λ-98.00000°. $M_0$1.41000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.9km az=162.8.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.7km az=144.0.
ISC IV 06 17 25 17.1–.70 38.50N–.06 144.72E–.07 29 3.6b 49 2-87
NIED IV 06 17 25 00 38.50N 144.70E 5 3.8W **¶17200029**
IDC IV 06 17 25 12.5–.72 38.35N 144.94E 0 3.8,3.7
ISCJB IV 06 17 25 15.4–.49 38.49N–.04 144.66E–.04 29 3.6b,3.7
JMA IV 06 17 25 15.9–.20 38.49N 144.67E 46 4.3,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ27.00000°,λ-72.00000°. NP2:ϕ_s182.00000°,δ64.00000°,λ-99.00000°. $M_0$6.17000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=15.9km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=163.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 06 17 45 40.7–.77 39.37N–.06 143.70E–.07 11 3.6b 38 1-75
NIED IV 06 17 45 00 39.40N 143.60E 14 3.8W **¶17200031**
IDC IV 06 17 45 38.5–.96 39.18N 143.74E 0 3.8,3.7
ISCJB IV 06 17 45 39.6–.60 39.41N–.04 143.67E–.05 11 3.5b,3.4s
JMA IV 06 17 45 41.9–.20 39.39N 143.60E 24 3.9,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ42.00000°,λ110.00000°. NP2:ϕ_s355.00000°,δ51.00000°,λ73.00000°. $M_0$5.20000×10^{14}
IDC Error ellipse: s-maj=23.6km s-min=17.4km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=136.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 06 18 05 22.3–1.3 37.86N–.07 143.96E–.09 35 3.6b 25 2-62
IDC IV 06 18 05 17.6–2.9 37.73N 144.20E 0 3.6,3.4 **¶17200033**
ISCJB IV 06 18 05 20.9–.88 37.84N–.05 143.91E–.07 33 3.5b,3.4
JMA IV 06 18 05 22.0–.20 37.85N 143.83E 42 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=74.8km s-min=31.4km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.3km az=35.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA IV 06 18 52 01.1–.20 38.03N 143.94E 46 4.0
¶600579215
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 06 18 59 08.3–1.8 38.03N–.09 143.6E–.10 19 3.5b 30 2-48
NIED IV 06 18 59 00 38.00N 143.50E 8 3.8W **¶17200038**
IDC IV 06 18 59 03.1–2.3 37.73N 143.92E 0 3.6,3.6
JMA IV 06 18 59 07.4–.30 37.98N 143.52E 30 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ61.00000°,λ-175.00000°. NP2:ϕ_s250.00000°,δ85.00000°,λ-29.00000°. $M_0$5.69000×10^{14}
IDC Error ellipse: s-maj=44.4km s-min=25.8km az=144.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 06 19 18 05.6–.67 37.37N–.05 143.65E–.07 35 4.0b 54 2-75
NIED IV 06 19 18 00 37.40N 143.60E 8 4.0W **¶16577703**
IDC IV 06 19 18 00.3–.68 37.30N 143.89E 0 4.0,3.9
ISCJB IV 06 19 18 03.8–.48 37.37N–.04 143.62E–.04 33 3.9b,3.9
JMA IV 06 19 18 04.6–.20 37.43N 143.56E 46 4.3,3.9
NEIC IV 06 19 18 05.8–.56 37.38N 143.77E 35 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ41.00000°,λ-149.00000°. NP2:ϕ_s232.00000°,δ70.00000°,λ-54.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.6km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.4km az=141.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.6km az=145.0.
ISC IV 06 19 20 19.0–.54 39.40N–.04 143.53E–.05 26–2 4.8b,4.8s 274 1-145
NIED IV 06 19 20 00 39.30N 143.90E 14 4.8W,4.8s **¶16413282**
JMA IV 06 19 20 11.7–.20 39.33N 143.90E 0 4.9,4.8s
IDC IV 06 19 20 15.0–.51 39.32N 143.63E 0 4.6,4.5
ISCJB IV 06 19 20 15.9–1.1 39.37N–.03 143.58E–.05 14–6 4.7b,4.6s
MOS IV 06 19 20 18.8–1.1 39.47N 143.53E 32 5.0b,4.4s
NEIC IV 06 19 20 20.2–.34 39.32N 143.52E 35 4.9b,4.4s
BJI IV 06 19 20 25.6 39.48N 142.77E 59 5.2b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ35.00000°,λ85.00000°. NP2:ϕ_s14.00000°,δ56.00000°,λ93.00000°. $M_0$1.72000×10^{16}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=13.0km s-min=10.6km az=135.0.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=3.7km az=37.4.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=107.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.3km az=126.0.
ISC IV 06 19 46 17.0–.73 36.28N–.06 142.79E–.07 29 3.8b 27 2-90
NIED IV 06 19 46 00 36.30N 142.60E 26 3.7W **¶17200044**
IDC IV 06 19 46 12.6–.74 36.29N 143.10E 0 3.9,3.8
ISCJB IV 06 19 46 15.3–.59 36.29N–.07 142.80E–.06 29 3.7b,3.8
JMA IV 06 19 46 18.2–.30 36.35N 142.55E 69 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ8.00000°,λ-58.00000°. NP2:ϕ_s237.00000°,δ83.00000°,λ-94.00000°. $M_0$4.55000×10^{14}
IDC Error ellipse: s-maj=19.1km s-min=17.9km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.0km az=2.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 06 20 02 38.1–.30 37.57N 144.04E 11 3.7
¶600579296
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 06 20 23 25.2–.20 36.69N 142.43E 19 3.5
NIED IV 06 20 23 00 36.70N 142.40E 11 3.3W **¶600579316**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ17.00000°,λ115.00000°. NP2:ϕ_s24.00000°,δ74.00000°,λ82.00000°. $M_0$1.18000×10^{14}
ISC IV 06 20 57 00.3–1.0 37.3N–.10 144.1E–.10 35 3.8b 14 5-61
IDC IV 06 20 56 55.4–1.0 37.43N 144.13E 0 3.8,3.7 **¶603308248**
ISCJB IV 06 20 56 58.2–.81 37.30N–.09 144.0E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA IV 06 21 35 34.8–.30 38.25N 144.39E 32 3.9
¶600579381
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 06 21 43 30.0–1.1 36.31N–.07 142.02E–.09 19 3.6b 20 1-64
NIED IV 06 21 43 00 36.40N 142.00E 17 3.5W **¶17200056**
IDC IV 06 21 43 27.3–1.4 36.39N 142.13E 0 3.8,3.7
ISCJB IV 06 21 43 28.5–.82 36.39N–.06 142.09E–.07 19 3.6b,3.7
JMA IV 06 21 43 29.1–.30 36.40N 141.99E 11 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ51.00000°,λ-52.00000°. NP2:ϕ_s118.00000°,δ53.00000°,λ-127.00000°. $M_0$2.13000×10^{14}
IDC Error ellipse: s-maj=29.4km s-min=24.4km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=7.7km az=164.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 06 21 49 27.2–.58 36.44N–.05 143.29E–.07 35 4.1b 65 2-89
NIED IV 06 21 49 00 36.60N 143.30E 5 3.8W **¶16506230**
IDC IV 06 21 49 21.9–.72 36.40N 143.44E 0 4.1,3.9
ISCJB IV 06 21 49 25.2–.39 36.43N–.03 143.28E–.04 33 4.1b,2.9s
JMA IV 06 21 49 26.3–.20 36.55N 143.28E 54 4.2,2.9s
NEIC IV 06 21 49 27.3–2.3 36.42N 143.36E 35–8 4.6b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ39.00000°,λ-75.00000°. NP2:ϕ_s183.00000°,δ53.00000°,λ-102.00000°. $M_0$5.57000×10^{14}
IDC Error ellipse: s-maj=21.9km s-min=16.6km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=4.4km az=160.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=12.1km az=128.0.
JMA IV 06 22 17 59.0–.20 37.72N 142.09E 21–3 3.7
NIED IV 06 22 17 00 37.70N 142.10E 59 3.6W **¶600579415**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s248.00000°,δ59.00000°,λ-19.00000°. NP2:ϕ_s348.00000°,δ74.00000°,λ-148.00000°. $M_0$6.62000×10^{14}
JMA IV 06 22 56 05.0–.40 37.82N 142.57E 0–4 4.0
¶600579447
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 07 01 58 39.7–.85 37.21N–.05 143.72E–.08 35 3.6b 34 2-89
NIED IV 07 01 58 00 37.30N 143.70E 5 3.7W **¶17200070**
IDC IV 07 01 58 35.0–.78 37.14N 143.85E 0 3.9s,3.9
ISCJB IV 07 01 58 38.3–.56 37.25N–.05 143.69E–.05 33 4.0s,3.8b
JMA IV 07 01 58 38.1–.20 37.27N 143.69E 46 3.9,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ37.00000°,λ-82.00000°. NP2:ϕ_s187.00000°,δ53.00000°,λ-96.00000°. $M_0$4.38000×10^{14}
IDC Error ellipse: s-maj=21.1km s-min=15.8km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.3km az=169.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 03 07 57.3–1.2 37.8N–.10 143.6E–.10 19 3.8b 8 5-62
IDC IV 07 03 07 54.5–1.2 37.95N 143.61E 0 3.8,3.7 **¶17200073**

ISCJB IV 07 03 07 55.3–1.0 37.9N–.10 143.6E–.10 19 3.8b,2.5s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 07 03 24 31.1–2.6 37.72N–.04 142.08E–.08 13–14 3.7b 27 1-58
NIED IV 07 03 24 00 37.80N 142.10E 5 3.4W **¶17200075**
IDC IV 07 03 24 27.1–2.3 37.80N 142.72E 0 3.8,3.8
JMA IV 07 03 24 32.1–.20 37.77N 142.14E 27–4 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s331.00000°,δ66.00000°,λ-177.00000°. NP2:ϕ_s240.00000°,δ87.00000°,λ-24.00000°. M_o1.41000×10^{14}
IDC Error ellipse: s-maj=44.8km s-min=25.9km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 07 04 55 55.3–.30 37.21N 143.49E 41 3.7
NIED IV 07 04 55 00 37.20N 143.50E 8 3.7W **¶600579767**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ34.00000°,λ-70.00000°. NP2:ϕ_s164.00000°,δ58.00000°,λ-103.00000°. M_o3.36000×10^{14}
ISC IV 07 06 34 21.9–2.1 37.89N–.05 142.51E–.05 15–12 4.6b,3.8s 132 1-146
NIED IV 07 06 34 00 37.80N 142.50E 20 4.2W,3.8s **¶16413298**
IDC IV 07 06 34 19.9–.60 37.89N 142.51E 0 4.4,4.3
JMA IV 07 06 34 21.0–.20 37.85N 142.53E 16–3 4.4,4.3
ISCJB IV 07 06 34 21.1–1.0 37.91N–.03 142.59E–.04 22–6 4.5b,3.7s
MOS IV 07 06 34 23.5–1.1 38.03N 142.53E 34 4.7b,3.7s
NEIC IV 07 06 34 24.6–1.5 37.99N 142.44E 28–10 4.6b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ17.00000°,λ63.00000°. NP2:ϕ_s32.00000°,δ75.00000°,λ98.00000°. M_o2.46000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=13.1km az=134.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.4km az=38.2.
MOS Error ellipse: s-maj=8.8km s-min=5.8km az=100.5.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.5km az=118.0.
JMA IV 07 07 03 53.1–.30 37.38N 142.54E 0 3.6
¶600579823
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 07 07 19 47.8–1.4 36.31N–.05 142.88E–.07 42–14 3.7b 33 2-146
IDC IV 07 07 19 41.7–.71 36.06N 143.35E 0 3.9,3.7 **¶17200085**
ISCJB IV 07 07 19 45.6–.00 36.31N–.04 142.91E–.07 43–11 3.7b,3.7
JMA IV 07 07 19 46.0–.20 36.30N 142.86E 77 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=18.3km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=21.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 07 25 09.0–2.1 37.36N–.05 142.33E–.07 0–12 3.7b 33 1-89
NIED IV 07 07 25 00 37.40N 142.50E 17 3.8W **¶17200086**
JMA IV 07 07 25 06.4–.30 37.36N 142.50E 0 4.2
ISCJB IV 07 07 25 07.1–1.9 37.35N–.05 142.48E–.05 0–12 3.7b,2.9s
IDC IV 07 07 25 08.7–.75 37.26N 142.45E 0 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ27.00000°,λ-111.00000°. NP2:ϕ_s199.00000°,δ65.00000°,λ-80.00000°. M_o4.85000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.5km az=167.5.
IDC Error ellipse: s-maj=21.0km s-min=17.5km az=118.0.
ISC IV 07 08 47 30.9–3.5 36.47N–.05 142.44E–.07 14–22 3.7b 30 1-146
NIED IV 07 08 47 00 36.60N 142.30E 17 3.7W **¶600579870**
IDC IV 07 08 47 28.9–.90 36.42N 142.55E 0 3.9,3.9L
JMA IV 07 08 47 32.4–.20 36.58N 142.34E 19 3.6,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ33.00000°,λ-115.00000°. NP2:ϕ_s158.00000°,δ60.00000°,λ-75.00000°. M_o4.65000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=19.2km az=115.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 08 52 45.2–1.0 36.96N–.05 142.23E–.07 10 3.5b 25 1-61
NIED IV 07 08 52 00 37.00N 142.30E 14 3.6W **¶17200092**
IDC IV 07 08 52 43.0–1.2 36.84N 142.56E 0 3.7,3.5
ISCJB IV 07 08 52 43.2–.77 36.95N–.04 142.47E–.07 10 3.5b,3.5
JMA IV 07 08 52 43.4–.20 37.00N 142.35E 0 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ71.00000°,λ174.00000°. NP2:ϕ_s243.00000°,δ84.00000°,λ19.00000°. M_o2.55000×10^{14}
IDC Error ellipse: s-maj=29.7km s-min=21.5km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.1km az=168.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 09 27 59.3–2.3 37.63N–.05 142.19E–.08 3–13 3.5b 24 1-63
IDC IV 07 09 27 58.6–1.2 37.69N 142.57E 0 3.7,3.5 **¶17200093**
ISCJB IV 07 09 28 00.6–1.4 37.63N–.05 142.29E–.08 18–8 3.5b,3.5
NIED IV 07 09 28 00 37.60N 142.20E 29 3.6W,3.5
JMA IV 07 09 28 02.7–.20 37.65N 142.16E 20–4 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=25.2km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.0km az=179.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ45.00000°,λ-12.00000°. NP2:ϕ_s354.00000°,δ82.00000°,λ-134.00000°. M_o3.11000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 07 09 33 17.8–.56 38.20N–.07 144.02E–.07 35 4.1b,3.3s 62 4-144
ISCJB IV 07 09 33 16.0–.45 38.25N–.05 143.99E–.06 33 4.1b,3.4s **¶16577716**
NEIC IV 07 09 33 16.7–2.2 38.22N 144.01E 24–16 4.6b,3.4s
MOS IV 07 09 33 16.8–1.3 38.35N 143.94E 36 4.3b,3.4s
IDC IV 07 09 33 17.2–7.5 38.19N 144.04E 27–52 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.3km az=139.6.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.6km az=123.0.
MOS Error ellipse: s-maj=10.1km s-min=7.6km az=94.3.
IDC Error ellipse: s-maj=19.8km s-min=14.0km az=115.0.
ISC IV 07 10 07 18.2–1.1 39.6N–.10 143.6E–.10 11 3.9b 13 5-60
ISCJB IV 07 10 07 16.6–.93 39.6N–.10 143.5E–.10 11 3.7b,3.2s **¶17200094**
IDC IV 07 10 07 22.5–3.5 39.56N 143.43E 42–33 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=11.0km az=40.5.
IDC Error ellipse: s-maj=26.7km s-min=19.6km az=130.0.
ISC IV 07 10 17 10.5–.57 36.96N–.07 143.51E–.07 35 4.2b,3.4s 62 4-145
IDC IV 07 10 17 05.3–.60 36.96N 143.55E 0 4.2,4.1 **¶16577718**
ISCJB IV 07 10 17 08.3–.41 36.94N–.05 143.48E–.05 33 4.1b,3.5s
MOS IV 07 10 17 08.7–1.1 36.96N 143.49E 36 4.4b,3.5s
NEIC IV 07 10 17 10.7–.43 37.06N 143.51E 35 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=13.9km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.3km az=152.3.
MOS Error ellipse: s-maj=11.7km s-min=9.1km az=133.3.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.8km az=148.0.
ISC IV 07 11 52 33.7–3.9 38.69N–.06 144.21E–.07 25–27 4.1b 89 2-118
NIED IV 07 11 52 00 38.70N 144.20E 5 4.2W **¶16577722**
IDC IV 07 11 52 29.2–.61 38.57N 144.30E 0 4.2,4.1
ISCJB IV 07 11 52 31.9–1.3 38.69N–.04 144.18E–.04 25–10 4.2b,3.5s
MOS IV 07 11 52 31.8–1.4 38.72N 144.29E 29 4.3b,3.5s
JMA IV 07 11 52 32.5–.20 38.71N 144.21E 46 4.6,3.5s
NEIC IV 07 11 52 33.1–2.1 38.61N 144.28E 24–14 4.8b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ28.00000°,λ-91.00000°. NP2:ϕ_s192.00000°,δ62.00000°,λ-89.00000°. M_o2.30000×10^{15}
IDC Error ellipse: s-maj=16.2km s-min=12.4km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.4km az=151.9.
MOS Error ellipse: s-maj=9.9km s-min=6.3km az=91.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.7km az=133.0.
IDC IV 07 12 18 18.6–3.0 37.39N 145.13E 0 3.8,3.6b
¶600579957
IDC Error ellipse: s-maj=78.4km s-min=30.8km az=56.0.
JMA IV 07 12 27 13.4–.40 38.04N 144.56E 42 4.1
¶600579961
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC IV 07 13 04 16.8–2.9 36.41N 143.30E 0 3.6,3.5b
¶17200116
IDC Error ellipse: s-maj=81.5km s-min=29.6km az=58.0.
JMA IV 07 13 29 13.2–.40 37.52N 143.74E 43 3.5
¶600579971
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA IV 07 13 38 01.7–.20 38.07N 144.23E 30 3.5
¶600579972
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 07 13 47 43.6–.95 36.85N–.06 143.41E–.08 35 3.9b 24 2-89
IDC IV 07 13 47 38.9–.90 36.62N 143.83E 0 4.0,3.8 **¶17200118**
ISCJB IV 07 13 47 41.7–.72 36.91N–.06 143.43E–.06 33 3.8b,3.8
JMA IV 07 13 47 42.1–.40 36.97N 143.43E 43 4.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=20.0km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.3km az=29.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC IV 07 16 58 12.6–2.5 36.59N 143.55E 0 3.5,3.4
¶17200136
IDC Error ellipse: s-maj=57.7km s-min=29.4km az=60.0.
ISC IV 07 18 34 14.5–2.2 37.3N–.10 142.3E–.10 25 11 1-45
IDC IV 07 18 34 02.4–11 36.67N 143.32E 0 3.4b,3.3 **¶17200146**
JMA IV 07 18 34 09.5–.40 37.34N 142.46E 1–4 3.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=204.0km s-min=79.7km az=139.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 07 19 15 42.3–.85 37.47N–.10 144.26E–.10 35 3.8b 19 5-73
IDC IV 07 19 15 37.1–.88 37.49N 144.38E 0 4.0,3.8 **¶16577735**
ISCJB IV 07 19 15 40.1–.64 37.48N–.08 144.25E–.08 33 4.0b,3.8
NEIC IV 07 19 15 42.3–.60 37.53N 144.32E 35 4.6b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=18.6km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=9.0km az=154.8.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=11.2km az=116.0.
ISC IV 07 19 21 01.2–1.3 38.13N–.05 143.80E–.09 35 3.7b 22 2-62
IDC IV 07 19 20 59.6–2.7 37.76N 144.07E 0 3.8,3.8 **¶17200155**
ISCJB IV 07 19 21 00.2–.87 38.16N–.05 143.77E–.07 33 3.7b,3.8
JMA IV 07 19 21 01.7–.50 38.15N 143.65E 40 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=81.4km s-min=26.1km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.7km az=20.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 07 21 13 41.7–.49 36.66N–.05 142.77E–.06 29 4.3b 79 2-146
NIED IV 07 21 13 00 36.70N 142.70E 17 4.3W **¶16455878**
NEIC IV 07 21 13 37.8–3.0 36.60N 142.90E 6–19 4.6b
IDC IV 07 21 13 37.1–.56 36.60N 142.85E 0 4.3,4.2
ISCJB IV 07 21 13 40.2–.37 36.69N–.04 142.70E–.04 29 4.5s,4.3b
JMA IV 07 21 13 40.7–.20 36.73N 142.67E 63 4.3,4.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ26.00000°,λ28.00000°. NP2:ϕ_s61.00000°,δ78.00000°,λ113.00000°. M_o2.92000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=7.0km az=113.0.
IDC Error ellipse: s-maj=14.5km s-min=12.5km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=151.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 07 21 34 30.9–9.6 36.63N 143.99E 0 3.9,3.7L
¶603308260
IDC Error ellipse: s-maj=209.1km s-min=47.0km az=30.0.
ISC IV 07 22 15 02.4–1.4 36.50N–.05 142.49E–.09 15 22 1-57
IDC IV 07 22 15 00.1–3.7 36.51N 142.72E 0 4.1,4.1s **¶17200173**
ISCJB IV 07 22 15 03.4–.99 36.55N–.04 142.40E–.08 15 4.2s,3.5b
JMA IV 07 22 15 05.3–.20 36.56N 142.40E 65 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=88.2km s-min=38.1km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.1km az=11.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 07 22 34 36.4–.40 37.81N 144.14E 50 3.9
¶600580339
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 08 00 56 21.5–.44 36.84N–.05 142.18E–.04 19 4.8b,4.3s 230 1-146
NIED IV 08 00 56 00 36.70N 142.30E 14 4.7W,4.3s **¶16414239**
IDC IV 08 00 56 18.6–.65 36.74N 142.12E 0 4.5,4.4
JMA IV 08 00 56 18.7–.30 36.71N 142.28E 17 4.7,4.4
ISCJB IV 08 00 56 19.7–.25 36.72N–.03 142.23E–.03 19 4.7b,4.3s
BJI IV 08 00 56 22.1 36.72N 141.85E 29 5.0b,5.0b
MOS IV 08 00 56 22.9–.98 37.01N 142.07E 29 4.9b,4.2s
NEIC IV 08 00 56 24.5–.66 36.68N 142.14E 43–5 4.7b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ20.00000°,λ107.00000°. NP2:ϕ_s20.00000°,δ71.00000°,λ84.00000°. M_o1.38000×10^{16}
IDC Error ellipse: s-maj=16.7km s-min=12.0km az=145.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=158.4.
MOS Error ellipse: s-maj=7.8km s-min=5.1km az=111.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=142.0.
ISC IV 08 01 19 30.5–1.7 34.81N–.10 141.1E–.10 35 3.3b 10 0-55
JMA IV 08 01 19 27.4–.30 34.88N 141.22E 43–4 2.7 **¶600580448**
ISCJB IV 08 01 19 28.7–1.3 34.77N–.07 141.2E–.10 35 3.2b
IDC IV 08 01 19 34.7–1.3 33.95N 138.40E 0 3.2,3.2b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=9.9km az=166.8.
IDC Error ellipse: s-maj=43.4km s-min=18.2km az=46.0.
ISC IV 08 01 36 26.8–.55 36.16N–.05 142.19E–.07 23 4.1b 53 1-147
NIED IV 08 01 36 00 36.20N 142.30E 14 4.0W **¶16529573**
IDC IV 08 01 36 23.2–.63 36.10N 142.23E 0 4.0,3.9
ISCJB IV 08 01 36 24.8–.44 36.15N–.04 142.23E–.05 23 4.0b,3.7s
JMA IV 08 01 36 24.8–.20 36.16N 142.29E 56 3.6,3.7s
NEIC IV 08 01 36 28.1–3.2 36.11N 142.15E 33–22 4.3b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ38.00000°,λ75.00000°. NP2:ϕ_s23.00000°,δ54.00000°,λ101.00000°. M_o1.22000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=17.0km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.0km az=140.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=9.3km az=91.0.
ISC IV 08 02 07 06.7–1.4 37.69N–.08 142.18E–.10 24 3.4b 17 1-91
IDC IV 08 02 07 00.6–1.3 37.92N 142.82E 0 3.6,3.5b **¶17200186**
JMA IV 08 02 07 06.0–.30 37.70N 142.24E 22–5 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=30.6km s-min=26.5km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 03 45 42.0–2.1 37.19N–.04 143.45E–.05 25–14 4.3b 127 2-150
NIED IV 08 03 45 00 37.20N 143.40E 11 4.2W **¶16506249**
IDC IV 08 03 45 38.1–.53 37.09N 143.56E 0 4.3,4.2
ISCJB IV 08 03 45 39.8–1.2 37.22N–.03 143.42E–.03 19–8 4.3b,3.6s
JMA IV 08 03 45 41.6–.20 37.20N 143.38E 47 4.5,3.6s
NEIC IV 08 03 45 41.5–2.4 37.13N 143.53E 22–16 4.6b,3.6s
MOS IV 08 03 45 42.9–1.1 37.41N 143.43E 33 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ42.00000°,λ-65.00000°. NP2:ϕ_s199.00000°,δ52.00000°,λ-111.00000°. M_o2.42000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=12.7km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=160.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.2km az=131.0.
MOS Error ellipse: s-maj=9.0km s-min=6.1km az=98.8.
ISC IV 08 03 49 12.8–.58 36.70N–.06 142.16E–.07 19 3.7b 34 1-90
NIED IV 08 03 49 00 36.80N 142.20E 5 4.0W **¶600580526**
ISCJB IV 08 03 49 11.2–.50 36.66N–.05 142.17E–.06 19 3.9s,3.7b

JMA IV 08 03 49 12.1–.20 36.76N 142.24E 34 3.9,3.7b
IDC IV 08 03 49 13.7–.63 36.67N 142.14E 22–3 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ47.00000°,λ129.00000°. NP2:ϕ_s7.00000°,δ55.00000°,λ56.00000°. $M_0$1.07000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.5km az=172.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=13.1km az=141.0.
ISC IV 08 04 03 23.6–1.2 37.3N–.10 143.7E–.20 35 3.6b 9 4-61
IDC IV 08 04 03 17.1–1.1 37.04N 143.89E 0 3.7,3.6L **¶17200200**
ISCJB IV 08 04 03 20.3–.93 37.1N–.10 143.8E–.10 33 3.5b,3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 05 09 02.5–4.2 37.93N–.06 143.51E–.06 8–27 4.2b 46 2-90
NIED IV 08 05 09 00 37.90N 143.50E 5 4.2W **¶16512215**
IDC IV 08 05 09 01.2–.66 37.83N 143.74E 0 4.2,4.0
JMA IV 08 05 09 03.8–.30 37.94N 143.48E 40 4.0,4.0
NEIC IV 08 05 09 06.3–.40 37.82N 143.63E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ24.00000°,λ-78.00000°. NP2:ϕ_s224.00000°,δ67.00000°,λ-95.00000°. $M_0$2.36000×10^{15}
IDC Error ellipse: s-maj=18.5km s-min=15.1km az=120.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.0km az=134.0.
JMA IV 08 05 29 19.2–.30 37.04N 142.56E 21 3.5
¶600580609
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 08 05 38 55.6–.20 37.73N 142.10E 25–4 3.5
¶600580616
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 05 56 57.2–.94 38.19N–.07 144.45E–.07 35 3.5b 32 2-75
NIED IV 08 05 56 00 38.20N 144.40E 5 3.7W **¶17200202**
IDC IV 08 05 56 51.9–1.1 38.04N 144.50E 0 3.8,3.6
ISCJB IV 08 05 56 55.4–.67 38.16N–.06 144.42E–.05 33 3.5b,3.6
JMA IV 08 05 56 56.0–.40 38.15N 144.38E 39 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ34.00000°,λ-88.00000°. NP2:ϕ_s191.00000°,δ56.00000°,λ-91.00000°. $M_0$4.63000×10^{14}
IDC Error ellipse: s-maj=27.7km s-min=23.3km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.2km az=161.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 08 06 13 44.5–.65 37.43N–.06 142.42E–.07 21 4.0b 38 1-146
NIED IV 08 06 13 00 37.50N 142.30E 8 3.8W **¶16512217**
IDC IV 08 06 13 41.3–.73 37.40N 142.47E 0 4.0,3.8
ISCJB IV 08 06 13 42.6–.49 37.43N–.05 142.50E–.06 21 4.0b,3.8
JMA IV 08 06 13 42.1–.30 37.49N 142.33E 0 4.2,3.8
NEIC IV 08 06 13 46.8–1.0 37.46N 142.48E 36–9 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ45.00000°,λ-128.00000°. NP2:ϕ_s242.00000°,δ56.00000°,λ-59.00000°. $M_0$6.44000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=17.4km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.5km az=146.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.7km az=114.0.
ISC IV 08 06 58 09.1–.83 36.7N–.10 144.0E–.10 35 4.0b 20 5-89
IDC IV 08 06 58 04.3–.78 36.88N 144.08E 0 4.0,3.8 **¶16512218**
NEIC IV 08 06 58 05.9–.48 36.85N 144.08E 10 4.2b,3.8
ISCJB IV 08 06 58 07.2–.60 36.82N–.10 144.0E–.10 33 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 08 06 58 46.9–.65 36.13N–.06 142.51E–.06 18 3.7b 32 1-146
NIED IV 08 06 58 00 36.30N 142.60E 14 4.0W **¶17200212**
IDC IV 08 06 58 44.0–.74 36.11N 142.65E 0 4.0,3.8
ISCJB IV 08 06 58 45.4–.50 36.19N–.06 142.56E–.05 18 3.8b,3.6s
JMA IV 08 06 58 45.7–.40 36.35N 142.64E 38 4.2,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ34.00000°,λ-26.00000°. NP2:ϕ_s294.00000°,δ76.00000°,λ-122.00000°. $M_0$1.29000×10^{15}
IDC Error ellipse: s-maj=20.2km s-min=16.9km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.3km az=166.9.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 08 07 07 41.4–2.4 37.94N–.06 143.85E–.06 23–16 4.3b,3.4s 101 2-88
NIED IV 08 07 07 00 38.00N 143.80E 5 4.0W,3.4s **¶16506251**
IDC IV 08 07 07 37.4–.62 37.88N 143.96E 0 4.2,4.2
ISCJB IV 08 07 07 38.9–1.3 37.95N–.04 143.84E–.04 18–9 4.2b,3.5s
NEIC IV 08 07 07 39.1–.36 37.93N 143.97E 10 4.6b,3.5s
MOS IV 08 07 07 40.7–.96 37.90N 143.92E 34 4.5b,3.5s
JMA IV 08 07 07 40.6–.30 37.96N 143.83E 46 4.2,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ41.00000°,λ-79.00000°. NP2:ϕ_s12.00000°,δ49.00000°,λ-99.00000°. $M_0$1.26000×10^{15}
IDC Error ellipse: s-maj=16.0km s-min=13.4km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.8km az=163.9.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.0km az=145.0.
MOS Error ellipse: s-maj=9.6km s-min=6.9km az=98.8.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA IV 08 07 13 36.8–.20 37.01N 143.73E 44 3.8
¶600580705
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 08 07 33 46.8–2.9 34.80N 141.15E 0 3.5,3.5b
¶17200218
IDC Error ellipse: s-maj=72.4km s-min=24.7km az=72.0.
ISC IV 08 08 02 33.3–.58 35.44N–.05 142.73E–.07 59 4.0b 43 2-125
NIED IV 08 08 02 00 35.50N 142.80E 5 4.0W **¶16512219**
IDC IV 08 08 02 25.2–.70 35.34N 143.04E 0 4.2L,4.1
NEIC IV 08 08 02 26.8–.40 35.38N 143.05E 10 4.3b,4.1
JMA IV 08 08 02 29.8–.30 35.49N 142.79E 85 3.9,4.1
ISCJB IV 08 08 02 31.4–.43 35.43N–.04 142.71E–.04 59 4.0b,2.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ34.00000°,λ-95.00000°. NP2:ϕ_s192.00000°,δ56.00000°,λ-87.00000°. $M_0$1.02000×10^{15}
NEIC Event type se.
ISCJB Event type se.
JMA IV 08 08 10 27.5–.30 38.46N 144.11E 42 3.8
¶600580734
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 08 08 40 40.2–.98 37.72N–.09 142.72E–.08 24 3.5b 15 1-63
IDC IV 08 08 40 36.5–1.1 37.55N 143.22E 0 3.6,3.5 **¶17200222**
JMA IV 08 08 40 36.7–.20 37.69N 142.69E 0 3.6,3.5
ISCJB IV 08 08 40 38.0–.76 37.67N–.08 142.83E–.07 24 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 09 03 18.3–.73 37.93N–.06 143.86E–.07 35 3.9b 46 2-150
NIED IV 08 09 03 00 37.90N 143.80E 5 3.8W **¶16577744**
IDC IV 08 09 03 12.8–.82 37.88N 144.00E 0 3.9,3.8b
NEIC IV 08 09 03 14.5–.47 37.91N 143.98E 10 4.0b,3.8b
ISCJB IV 08 09 03 16.1–.48 37.94N–.04 143.86E–.04 33 4.0b,3.6s
JMA IV 08 09 03 17.3–.30 37.93N 143.78E 44 3.8,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ31.00000°,λ-85.00000°. NP2:ϕ_s176.00000°,δ59.00000°,λ-93.00000°. $M_0$5.34000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=18.1km az=100.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.0km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.7km az=146.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 08 09 03 53.6–.72 36.94N–.08 144.37E–.09 26 4.2b 27 5-76
IDC IV 08 09 03 49.9–.87 36.94N 144.40E 0 4.1,4.1 **¶16577747**
ISCJB IV 08 09 03 51.6–.51 36.96N–.06 144.36E–.07 26 4.2b,4.1
NEIC IV 08 09 03 51.2–.51 36.98N 144.47E 10 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=17.3km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.3km az=137.6.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.0km az=127.0.
ISC IV 08 09 08 41.1–.46 37.10N–.04 144.19E–.05 35 4.5b,3.6s 148 3-145
NIED IV 08 09 08 00 37.10N 144.10E 5 4.2W,3.6s **¶16414400**
IDC IV 08 09 08 34.9–.56 37.00N 144.40E 0 4.4,4.3
NEIC IV 08 09 08 36.9–.28 36.98N 144.35E 10 4.6b,4.3
MOS IV 08 09 08 38.3–.87 36.96N 144.34E 33 4.6b,4.3
JMA IV 08 09 08 39.8–.20 37.15N 144.07E 64 4.5,4.3
ISCJB IV 08 09 08 39.3–.29 37.11N–.03 144.11E–.03 33 4.4b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ32.00000°,λ-91.00000°. NP2:ϕ_s231.00000°,δ58.00000°,λ-89.00000°. $M_0$2.21000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC IV 08 09 29 23.2–9.0 36.21N 143.29E 0 3.6,3.5b
¶17200228
IDC Error ellipse: s-maj=201.2km s-min=45.6km az=35.0.
ISC IV 08 10 04 16.4–1.5 37.94N–.04 143.90E–.04 13–9 4.6b,3.8s 203 2-144
NIED IV 08 10 04 00 37.90N 143.80E 5 4.2W,3.8s **¶16414401**
ISCJB IV 08 10 04 14.4–.98 37.92N–.03 143.85E–.03 15–7 4.5b,3.8s
IDC IV 08 10 04 14.0–.59 37.89N 143.90E 0 4.5,4.4
NEIC IV 08 10 04 15.9–.22 37.94N 143.92E 10 4.6b,4.4
BJI IV 08 10 04 16.7 38.19N 144.13E 33 4.9b,4.6b
MOS IV 08 10 04 17.9–.95 37.95N 143.85E 36 4.8b,4.6b
JMA IV 08 10 04 17.1–.30 37.90N 143.81E 45 4.6,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ42.00000°,λ-83.00000°. NP2:ϕ_s196.00000°,δ49.00000°,λ-96.00000°. $M_0$2.55000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.1km az=152.6.
IDC Error ellipse: s-maj=14.7km s-min=12.0km az=135.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.7km az=129.0.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC IV 08 10 39 49.5–2.7 39.39N 144.29E 0 3.6,3.5b
¶17200234
IDC Error ellipse: s-maj=68.8km s-min=31.6km az=69.0.
ISC IV 08 11 17 33.6–1.6 36.1N–.10 143.1E–.10 35 3.7b 10 4-60
IDC IV 08 11 17 27.6–2.1 36.23N 143.28E 0 3.8,3.8 **¶17200238**
ISCJB IV 08 11 17 31.4–1.2 36.05N–.08 143.1E–.10 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 11 32 32.8–.77 36.67N–.06 143.72E–.07 35 3.7b 32 2-89
NIED IV 08 11 32 00 36.70N 143.60E 5 3.7W **¶17200239**
IDC IV 08 11 32 27.6–.78 36.58N 143.87E 0 4.0,3.9L
ISCJB IV 08 11 32 31.0–.58 36.63N–.05 143.68E–.05 33 3.7b,3.5s
JMA IV 08 11 32 32.4–.40 36.74N 143.62E 97 3.5,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ22.00000°,λ-83.00000°. NP2:ϕ_s228.00000°,δ68.00000°,λ-93.00000°. $M_0$4.61000×10^{14}
IDC Error ellipse: s-maj=22.1km s-min=17.8km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.3km az=170.4.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 08 12 09 46.5–2.2 37.21N–.05 142.39E–.08 16–11 3.7b,3.1s 21 1-61
IDC IV 08 12 09 44.4–1.3 36.99N 142.81E 0 3.8,3.7 **¶600580887**
ISCJB IV 08 12 09 46.0–1.3 37.21N–.05 142.59E–.10 33–14 3.6b,3.2s
JMA IV 08 12 09 46.5–.40 37.40N 142.44E 11 3.8,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=21.7km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=8.3km az=173.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 08 12 10 57.0–.97 37.98N–.05 143.87E–.06 23–6 4.3b 115 2-144
NIED IV 08 12 10 00 37.90N 143.90E 5 4.2W **¶16577751**
IDC IV 08 12 10 52.8–.58 37.84N 143.95E 0 4.3,4.3
ISCJB IV 08 12 10 53.9–1.2 37.90N–.03 143.85E–.04 16–9 4.3b,3.7s
NEIC IV 08 12 10 54.6–.30 37.88N 143.96E 10 4.6b,3.7s
JMA IV 08 12 10 55.3–.30 37.91N 143.87E 43 4.5,3.7s
MOS IV 08 12 10 56.5–1.0 37.91N 143.91E 36 4.4b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ30.00000°,λ-93.00000°. NP2:ϕ_s193.00000°,δ60.00000°,λ-88.00000°. $M_0$1.89000×10^{15}
IDC Error ellipse: s-maj=14.7km s-min=12.4km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=142.3.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=133.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=7.0km az=101.9.
ISC IV 08 12 46 49.7–1.7 37.65N–.04 142.02E–.09 43–16 4.0b 41 1-146
NIED IV 08 12 46 00 37.60N 141.90E 47 3.9W **¶17200246**
ISCJB IV 08 12 46 49.0–.91 37.61N–.04 141.95E–.09 55–7 3.9b,3.8s
JMA IV 08 12 46 49.7–.10 37.63N 141.92E 40–3 4.1,3.8s
IDC IV 08 12 46 52.2–2.6 37.63N 141.88E 67–24 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ10.00000°,λ126.00000°. NP2:ϕ_s195.00000°,δ82.00000°,λ84.00000°. $M_0$6.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=5.9km az=10.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=21.5km s-min=15.4km az=70.0.
ISC IV 08 13 20 24.2–1.7 37.89N–.05 142.33E–.05 8–9 4.2b 85 1-89
NIED IV 08 13 20 00 37.90N 142.30E 20 4.0W **¶16577755**
IDC IV 08 13 20 23.0–.68 37.89N 142.37E 0 4.2,4.1
ISCJB IV 08 13 20 23.5–1.1 37.86N–.03 142.39E–.05 17–7 4.1b,2.9s
MOS IV 08 13 20 24.8–1.1 37.94N 142.40E 25 4.4b,2.9s
JMA IV 08 13 20 25.8–.30 37.89N 142.31E 26–5 4.2,2.9s
NEIC IV 08 13 20 28.2–.52 37.91N 142.25E 35 4.5b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ32.00000°,λ-141.00000°. NP2:ϕ_s36.00000°,δ71.00000°,λ-64.00000°. $M_0$1.07000×10^{15}
IDC Error ellipse: s-maj=19.1km s-min=14.2km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.5km az=28.2.
MOS Error ellipse: s-maj=9.6km s-min=6.7km az=101.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.6km az=119.0.
ISC IV 08 13 58 28.2–2.2 37.14N–.06 142.24E–.07 1–13 3.6b 26 1-69
NIED IV 08 13 58 00 37.30N 142.20E 5 3.6W **¶17200248**
IDC IV 08 13 58 27.3–.88 36.93N 142.63E 0 3.7,3.6
ISCJB IV 08 13 58 28.7–1.4 37.14N–.07 142.38E–.07 15–9 3.5b,3.6
JMA IV 08 13 58 31.2–.30 37.33N 142.19E 5–3 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ53.00000°,λ-44.00000°. NP2:ϕ_s189.00000°,δ56.00000°,λ-134.00000°. $M_0$2.90000×10^{14}
IDC Error ellipse: s-maj=23.6km s-min=17.3km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.6km az=25.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 14 44 09.5–3.4 37.41N–.09 142.48E–.10 11–19 3.4b 19 1-63
IDC IV 08 14 44 04.2–1.1 37.72N 143.24E 0 3.5,3.4 **¶17200252**
JMA IV 08 14 44 10.3–.20 37.41N 142.42E 2–3 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=25.0km az=88.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 15 06 59.3–1.1 37.26N–.06 142.15E–.08 21 3.5b 20 1-77
NIED IV 08 15 06 00 37.20N 142.20E 5 3.5W **¶17200255**
IDC IV 08 15 06 56.1–.89 37.17N 142.34E 0 4.1s,4.1
ISCJB IV 08 15 06 57.6–.68 37.24N–.05 142.28E–.06 21 4.2s,3.5b
JMA IV 08 15 06 58.2–.30 37.24N 142.25E 27–5 3.9,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ40.00000°,λ-133.00000°. NP2:ϕ_s45.00000°,δ62.00000°,λ-60.00000°. $M_0$2.19000×10^{14}
IDC Error ellipse: s-maj=23.7km s-min=19.7km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.7km az=18.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 15 28 46.6–.72 36.99N–.06 144.12E–.07 35 3.6b 31 3-88

NIED IV 08 15 28 00 37.20N 144.10E 5 3.8W ¶17200257
IDC IV 08 15 28 41.3–.77 36.95N 144.29E 0 3.9,3.7
ISCJB IV 08 15 28 44.8–.57 37.02N–.06 144.11E–.05 33 3.6b,3.7
JMA IV 08 15 28 46.3–.40 37.18N 144.06E 47 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S59.00000°,δ26.00000°,λ-77.00000°. NP2:ϕ_S226.00000°,δ65.00000°,λ-96.00000°. $M_0$5.70000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=16.4km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.3km az=6.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 08 17 50 42.2–1.4 39.0N–.20 143.4E–.20 20 3.4b 7 5-61
IDC IV 08 17 50 39.1–1.3 39.04N 143.46E 0 3.4,3.3 ¶17200268
ISCJB IV 08 17 50 40.0–1.3 39.0N–.20 143.4E–.20 20 3.3b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 18 59 34.5–1.1 37.70N–.06 144.19E–.08 35 3.6b 30 2-62
IDC IV 08 18 59 29.5–1.2 37.68N 144.40E 0 3.8,3.6 ¶17200274
ISCJB IV 08 18 59 33.0–.73 37.70N–.04 144.13E–.06 33 3.6b,3.6
JMA IV 08 18 59 34.5–.20 37.87N 143.92E 14 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=22.7km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.1km az=9.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 19 13 29.5–2.3 38.49N–.04 143.89E–.05 26–15 4.5b,3.6s 239 2-145
NIED IV 08 19 13 00 38.50N 143.80E 5 4.2W,3.6s ¶16506252
BJI IV 08 19 13 25.6 38.79N 144.09E 9 4.9b,4.5b
IDC IV 08 19 13 25.2–.50 38.37N 143.96E 0 4.3,4.3b
ISCJB IV 08 19 13 26.6–1.1 38.43N–.03 143.86E–.03 17–7 4.4b,3.6s
JMA IV 08 19 13 28.6–.20 38.48N 143.82E 34 4.5,3.6s
MOS IV 08 19 13 28.5–1.1 38.47N 143.80E 31 4.5b,3.6s
NEIC IV 08 19 13 29.2–1.4 38.39N 143.87E 24–10 4.7b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S43.00000°,δ34.00000°,λ-63.00000°. NP2:ϕ_S191.00000°,δ61.00000°,λ-107.00000°. $M_0$2.62000×10^{15}
IDC Error ellipse: s-maj=13.7km s-min=11.3km az=143.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.4km az=160.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.1km s-min=6.0km az=94.3.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.5km az=141.0.
ISC IV 08 19 32 50.0–1.4 38.49N–.06 143.96E–.09 14 28 2-59
IDC IV 08 19 32 47.5–3.2 38.42N 144.26E 0 3.7L,3.6 ¶17200278
ISCJB IV 08 19 32 49.5–.97 38.54N–.04 143.89E–.07 14 3.4b,3.6
JMA IV 08 19 32 51.4–.20 38.48N 143.88E 35 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=71.8km s-min=41.9km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=22.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 19 47 45.8–.75 35.73N–.08 142.55E–.10 10 3.6b 16 3-78
ISCJB IV 08 19 47 44.0–.61 35.74N–.08 142.5E–.10 10 3.5b ¶17200279
IDC IV 08 19 47 44.5–.73 35.84N 142.53E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=11.5km az=16.8.
IDC Error ellipse: s-maj=19.7km s-min=17.4km az=138.0.
ISC IV 08 19 59 27.2–.56 36.40N–.05 143.48E–.06 35 3.9b 75 2-89
NIED IV 08 19 59 00 36.50N 143.40E 5 3.8W ¶16577765
IDC IV 08 19 59 21.7–.72 36.35N 143.63E 0 4.0,3.9
ISCJB IV 08 19 59 25.0–.35 36.37N–.04 143.45E–.03 33 3.9b,3.7s
NEIC IV 08 19 59 25.3–2.8 36.29N 143.64E 26–20 4.4b,3.7s
JMA IV 08 19 59 25.7–.30 36.46N 143.43E 45 4.0,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S60.00000°,δ29.00000°,λ-96.00000°. NP2:ϕ_S247.00000°,δ61.00000°,λ-87.00000°. $M_0$6.64000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=16.1km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=169.3.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.6km az=210.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 08 20 08 53.3–.59 37.11N–.05 144.28E–.06 26 4.0b 87 3-84
NIED IV 08 20 08 00 37.20N 144.10E 5 3.8W ¶16577766
IDC IV 08 20 08 49.5–.71 37.01N 144.37E 0 4.1,4.0
ISCJB IV 08 20 08 51.5–.35 37.01N–.04 144.21E–.03 26 4.0b,4.0
NEIC IV 08 20 08 52.3–2.3 36.96N 144.40E 20–16 4.4b,4.0
JMA IV 08 20 08 53.7–.20 37.16N 144.13E 50 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S38.00000°,δ40.00000°,λ-83.00000°. NP2:ϕ_S209.00000°,δ51.00000°,λ-96.00000°. $M_0$5.97000×10^{14}
IDC Error ellipse: s-maj=18.2km s-min=14.1km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.8km az=162.3.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.5km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 08 20 32 33.1–3.3 36.78N 143.25E 0 3.7L,3.6
¶17200282
IDC Error ellipse: s-maj=84.5km s-min=33.7km az=52.0.
ISC IV 08 20 49 42.3–2.2 34.88N–.05 141.11E–.08 5–13 3.5b 20 0-55
IDC IV 08 20 49 40.5–2.5 34.98N 141.45E 0 3.8,3.8 ¶17200283
JMA IV 08 20 49 43.9–.40 34.94N 141.33E 43–4 3.1,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=63.9km s-min=22.1km az=69.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 08 21 12 17.8–2.3 37.33N–.07 142.23E–.08 5–12 3.5b 22 1-69
NIED IV 08 21 12 00 37.30N 142.20E 5 3.6W ¶17200285
IDC IV 08 21 12 16.7–1.1 37.34N 142.39E 0 3.6,3.5
ISCJB IV 08 21 12 18.2–2.2 37.28N–.07 142.31E–.09 22–14 3.5b,3.5
JMA IV 08 21 12 18.7–.30 37.28N 142.23E 16–3 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S85.00000°,δ60.00000°,λ-33.00000°. NP2:ϕ_S193.00000°,δ62.00000°,λ-145.00000°. $M_0$2.64000×10^{14}
IDC Error ellipse: s-maj=29.5km s-min=22.5km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=9.5km az=140.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 08 21 24 08.0–.93 37.18N–.05 144.17E–.08 35 3.9b 37 3-76
NIED IV 08 21 24 00 37.20N 144.10E 5 3.6W ¶17200288
IDC IV 08 21 24 02.5–.97 37.01N 144.35E 0 3.8,3.7
ISCJB IV 08 21 24 05.4–.60 37.16N–.04 144.16E–.05 33 3.7b,3.7
JMA IV 08 21 24 06.4–.50 37.20N 144.15E 56 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S20.00000°,δ32.00000°,λ-93.00000°. NP2:ϕ_S204.00000°,δ58.00000°,λ-88.00000°. $M_0$2.93000×10^{14}
IDC Error ellipse: s-maj=26.1km s-min=18.7km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=139.6.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC IV 08 21 30 11.9–.42 36.72N–.04 143.26E–.03 35–2 4.8b,3.9s 557 2-153
NIED IV 08 21 30 00 36.80N 143.00E 8 4.5W,3.9s ¶16414917
IDC IV 08 21 30 06.2–.47 36.70N 143.21E 0 4.6,4.6
ISCJB IV 08 21 30 08.2–.94 36.71N–.03 143.18E–.02 20–6 4.8b,3.9s
BJI IV 08 21 30 10.5 36.99N 143.35E 43 4.9b,4.5b
JMA IV 08 21 30 11.5–.20 36.80N 143.02E 65 4.5,4.5b
MOS IV 08 21 30 12.8–.92 37.17N 143.16E 37 4.9b,4.5b
NEIC IV 08 21 30 12.2–.51 36.64N 143.20E 38–4 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S24.00000°,δ36.00000°,λ-90.00000°. NP2:ϕ_S204.00000°,δ54.00000°,λ-90.00000°. $M_0$7.35000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=11.4km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=168.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=5.1km az=99.7.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=142.0.
JMA IV 08 22 28 41.9–.20 39.77N 143.54E 11–3 3.8
¶600581379
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 08 23 10 21.9–2.0 37.49N–.09 143.9E–.10 35 3.5b 17 2-58
JMA IV 08 23 10 21.8–.50 37.49N 143.70E 32 3.4 ¶17200291
ISCJB IV 08 23 10 23.2–1.7 37.51N–.08 143.7E–.10 33 3.4b
IDC IV 08 23 10 23.4–1.6 36.56N 143.55E 0 3.7,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=9.6km az=33.3.
IDC Error ellipse: s-maj=35.7km s-min=26.9km az=161.0.
ISC IV 08 23 27 23.2–2.6 39.71N–.05 143.54E–.06 15–15 4.0b 55 1-74
NIED IV 08 23 27 00 39.70N 143.70E 23 4.0W ¶16506253
JMA IV 08 23 27 18.5–.30 39.69N 143.70E 1–3 4.1
ISCJB IV 08 23 27 20.7–1.3 39.69N–.04 143.68E–.05 12–8 3.9b,3.4s
IDC IV 08 23 27 27.3–2.9 39.57N 143.49E 51–25 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S219.00000°,δ39.00000°,λ101.00000°. NP2:ϕ_S24.00000°,δ52.00000°,λ81.00000°. $M_0$1.11000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.0km az=135.5.
IDC Error ellipse: s-maj=23.7km s-min=17.0km az=132.0.
ISC IV 09 00 10 59.8–.83 38.28N–.06 144.09E–.07 14 3.8b 43 2-75
NIED IV 09 00 10 00 38.30N 144.10E 8 3.7W ¶17200294
ISCJB IV 09 00 10 57.9–.59 38.27N–.04 144.04E–.05 14 3.6b
IDC IV 09 00 10 57.1–.93 38.06N 144.37E 0 4.1L,3.9
JMA IV 09 00 10 59.7–.30 38.27N 144.06E 41 4.1,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S22.00000°,δ23.00000°,λ-67.00000°. NP2:ϕ_S177.00000°,δ69.00000°,λ-99.00000°. $M_0$3.98000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=151.1.
IDC Error ellipse: s-maj=25.1km s-min=18.8km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 09 01 01 15.4–1.3 37.77N–.06 144.41E–.09 35 3.7b 26 3-62
NIED IV 09 01 01 00 37.90N 144.00E 5 3.5W ¶17200297
IDC IV 09 01 01 11.5–2.0 37.57N 144.36E 0 3.8,3.7b
ISCJB IV 09 01 01 14.2–.87 37.78N–.05 144.34E–.06 33 3.7b,3.7b
JMA IV 09 01 01 16.1–.40 37.92N 143.96E 0 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S16.00000°,δ24.00000°,λ-70.00000°. NP2:ϕ_S174.00000°,δ67.00000°,λ-99.00000°. $M_0$1.90000×10^{14}
IDC Error ellipse: s-maj=48.9km s-min=27.6km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.2km az=155.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 09 01 25 28.0–.27 36.77N–.03 142.12E–.03 30–1 5.3b,4.6s 1282 1-164
NIED IV 09 01 25 00 36.80N 142.30E 11 5.0W,4.6s ¶600581545
JMA IV 09 01 25 24.0–.30 36.78N 142.25E 20–4 5.1,4.6s
BJI IV 09 01 25 25.7 36.78N 142.02E 25 5.1b,5.0b
ISCJB IV 09 01 25 25.2–.59 36.75N–.02 142.13E–.02 19–4 5.2b,4.6s
NEIC IV 09 01 25 26.7–1.5 36.75N 142.05E 19–9 5.4b,4.6s
GCMT IV 09 01 25 26.7–.30 36.81N 142.16E 22–0 5.1W,4.6s
MOS IV 09 01 25 27.9–.80 37.10N 142.03E 27 5.4b,4.4s
IDC IV 09 01 25 28.3–.35 36.74N 142.16E 32–1 4.9,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S179.00000°,δ32.00000°,λ86.00000°. NP2:ϕ_S4.00000°,δ58.00000°,λ93.00000°. $M_0$3.16000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=164.0.
NEIC Event type se. Error ellipse: s-maj=3.0km s-min=2.1km az=146.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c46; s94,c139; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.57±.21 $M_{\theta\theta}$0.29±.14; $M_{\phi\phi}$-4.86±.15; $M_{r\theta}$-0.36±.24; $M_{\theta\phi}$-0.62±.08; $M_{\phi r}$1.31±.20; Best double couple: NP1:ϕ_S0.00000°,δ53.00000°,λ82.00000°. NP2:ϕ_S193.00000°,δ38.00000°,λ100.00000°. Principal axes: T 4.7910,Plg80.0000°,Azm235.0000°; N 0.3090,Plg6.0000°,Azm5.0000°; P -5.0970,Plg7.0000°,Azm96.0000° $M_0$4.94400×10^{16}
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=109.8.
IDC Error ellipse: s-maj=9.3km s-min=8.4km az=154.0.
IDC IV 09 01 37 13.5–1.3 38.03N 144.07E 0 3.9,3.7b
¶602945413
IDC Error ellipse: s-maj=32.8km s-min=29.3km az=61.0.
JMA IV 09 01 53 02.9–.20 36.75N 143.29E 37 3.7
¶600581562
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 01 55 14.4–.83 37.29N–.07 143.54E–.07 35 3.8b 35 2-89
NIED IV 09 01 55 00 37.30N 143.60E 5 4.0W ¶17200301
IDC IV 09 01 55 09.1–.84 37.11N 143.85E 0 3.9,3.8L
JMA IV 09 01 55 11.9–.30 37.31N 143.57E 39 3.7,3.8L
ISCJB IV 09 01 55 12.3–.58 37.26N–.05 143.55E–.05 33 3.7b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S15.00000°,δ26.00000°,λ-91.00000°. NP2:ϕ_S196.00000°,δ64.00000°,λ-89.00000°. $M_0$1.01000×10^{15}
ISCJB Event type ke.
ISC IV 09 01 55 25.9–.97 37.2N–.10 143.9E–.10 35 3.9b 11 5-88
IDC IV 09 01 55 20.6–.87 37.16N 143.90E 0 4.0,3.9b ¶17200304
ISCJB IV 09 01 55 23.4–.75 37.1N–.10 143.8E–.10 33 3.8b,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 09 02 31 03.6–.67 39.96N–.04 143.28E–.04 24–4 4.8b,4.4s 339 1-150
IDC IV 09 02 30 59.3–.59 39.84N 143.30E 0 4.6,4.5 ¶16415757
NIED IV 09 02 31 00 40.00N 143.30E 14 4.8W,4.5
ISCJB IV 09 02 31 01.3–.71 39.86N–.03 143.28E–.03 21–4 4.7b,4.3s
JMA IV 09 02 31 01.4–.20 39.96N 143.28E 11–3 4.6,4.3s
BJI IV 09 02 31 02.0 39.82N 143.16E 29 5.0b,4.8b
MOS IV 09 02 31 03.0–1.0 39.99N 143.18E 30 4.9b,4.2s
NEIC IV 09 02 31 04.4–1.2 39.90N 143.17E 29–8 4.7b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.1km az=129.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S159.00000°,δ20.00000°,λ34.00000°. NP2:ϕ_S36.00000°,δ79.00000°,λ107.00000°. $M_0$1.72000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=143.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.3km s-min=4.4km az=103.6.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=127.0.
ISC IV 09 02 33 49.5–.87 39.86N–.05 143.35E–.05 28–5 4.7b,4.3s 222 1-150
NIED IV 09 02 33 00 40.00N 143.20E 23 4.5W,4.3s ¶16415758
IDC IV 09 02 33 45.8–.65 39.85N 143.28E 0 4.5,4.4
ISCJB IV 09 02 33 46.6–.84 39.83N–.03 143.38E–.03 19–5 4.6b,4.3s
BJI IV 09 02 33 47.4 39.73N 143.09E 20 4.9b,4.9b
JMA IV 09 02 33 47.5–.20 39.96N 143.25E 3–3 4.5,4.9b
MOS IV 09 02 33 48.4–.99 39.87N 143.31E 30 4.8b,4.9b
NEIC IV 09 02 33 50.3–1.7 39.76N 143.30E 34–12 4.7b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S199.00000°,δ23.00000°,λ81.00000°. NP2:ϕ_S29.00000°,δ68.00000°,λ94.00000°. $M_0$7.30000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=13.4km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.9km az=152.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.3km az=98.4.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=118.0.
JMA IV 09 02 36 27.0–.30 39.93N 143.25E 9 3.9
NIED IV 09 02 36 00 39.90N 143.20E 23 4.0W ¶600581588
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S171.00000°,δ26.00000°,λ70.00000°. NP2:ϕ_S13.00000°,δ66.00000°,λ100.00000°. $M_0$1.28000×10^{15}
ISC IV 09 03 42 18.4–3.7 37.07N–.05 142.67E–.06 5–23 3.9b,3.2s 45 1-89
NIED IV 09 03 42 00 37.10N 142.70E 14 4.0W,3.2s ¶16529583
IDC IV 09 03 42 17.7–.73 37.02N 142.71E 0 4.0,3.9
JMA IV 09 03 42 19.4–.30 37.11N 142.66E 12 4.1,3.9
NEIC IV 09 03 42 21.1–3.1 37.12N 142.73E 20–22 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S173.00000°,δ45.00000°,λ-100.00000°. NP2:ϕ_S7.00000°,δ46.00000°,λ-81.00000°. $M_0$1.13000×10^{15}
IDC Error ellipse: s-maj=19.6km s-min=16.3km az=138.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.3km az=131.0.

ISC IV 09 04 34 08.4–.77 37.21N–.07 142.13E–.06 19 3.9b 28 1-77
NIED IV 09 04 34 00 37.30N 142.20E 5 3.9W **¶16529584**
IDC IV 09 04 34 05.0–.81 37.10N 142.47E 0 3.9,3.8
ISCJB IV 09 04 34 06.5–.58 37.21N–.06 142.33E–.05 19 3.9b,3.3s
JMA IV 09 04 34 06.8–.20 37.27N 142.24E 17–3 3.9,3.3s
NEIC IV 09 04 34 10.3–.54 37.14N 142.41E 35 4.3b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s87.00000°,δ60.00000°,λ-34.00000°. NP2:ϕ_s196.00000°,δ61.00000°,λ-145.00000°. $M_0$8.48000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=17.9km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.1km az=167.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=8.3km az=140.0.
JMA IV 09 05 06 38.9–.20 37.66N 142.94E 9 3.7
¶600581669
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 05 08 44.1–1.4 36.30N–.08 142.1E–.10 23 3.7b 14 1-60
IDC IV 09 05 08 39.6–2.5 36.20N 142.40E 0 3.9,3.8 **¶17200309**
JMA IV 09 05 08 42.8–.50 36.23N 142.23E 71 3.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=78.2km s-min=21.9km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
ISC IV 09 06 33 11.1–1.0 37.0N–.20 142.3E–.10 9 3.8b 14 1-90
NIED IV 09 06 33 00 36.50N 142.50E 8 3.9W **¶17200310**
ISCJB IV 09 06 33 09.7–.73 37.0N–.10 142.32E–.08 9 3.7b,3.6s
IDC IV 09 06 33 10.4–.81 37.12N 142.53E 0 3.9,3.7
JMA IV 09 06 33 24.6–.60 36.65N 141.71E 11 3.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ52.00000°,λ40.00000°. NP2:ϕ_s272.00000°,δ59.00000°,λ134.00000°. $M_0$9.05000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=7.0km az=159.0.
IDC Error ellipse: s-maj=23.3km s-min=18.6km az=101.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 09 07 48 59.6–.97 37.93N–.08 143.19E–.08 18 3.6b 24 2-62
NIED IV 09 07 48 00 37.90N 143.00E 5 3.6W **¶17200315**
IDC IV 09 07 48 56.5–.91 37.81N 143.50E 0 3.7,3.5
ISCJB IV 09 07 48 57.6–.72 37.92N–.06 143.25E–.06 18 3.6b,3.5
JMA IV 09 07 48 58.2–.40 37.93N 143.01E 0 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ69.00000°,λ-19.00000°. NP2:ϕ_s76.00000°,δ73.00000°,λ-158.00000°. $M_0$2.74000×10^{14}
IDC Error ellipse: s-maj=26.1km s-min=19.1km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.9km az=143.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 09 08 00 35.1–.30 37.24N 142.54E 9 3.6
¶600581746
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 09 08 07 23.7–.54 37.52N–.06 143.67E–.07 35 4.0b 47 4-150
IDC IV 09 08 07 18.9–.59 37.53N 143.67E 0 4.2,4.1 **¶16512221**
ISCJB IV 09 08 07 21.5–.39 37.36N–.04 143.66E–.06 33 4.0b,3.2s
NEIC IV 09 08 07 24.0–.39 37.51N 143.62E 35 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=12.8km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=136.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.1km az=125.0.
ISC IV 09 08 17 02.6–.52 37.88N–.05 142.59E–.05 14 4.0b,3.3s 70 1-151
JMA IV 09 08 17 00.1–.30 37.83N 142.72E 15–5 4.3,3.3s **¶16506256**
NIED IV 09 08 17 00 37.80N 142.70E 23 4.2W,3.3s
IDC IV 09 08 17 00.3–.64 37.83N 142.63E 0 4.1,4.0
ISCJB IV 09 08 17 00.9–.35 37.83N–.03 142.71E–.04 14 4.0b,3.4s
MOS IV 09 08 17 04.6–1.2 37.93N 142.61E 39 4.2b,3.4s
NEIC IV 09 08 17 04.5–2.9 37.90N 142.72E 26–20 4.2b,3.4s
ISC Event type se.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ33.00000°,λ-58.00000°. NP2:ϕ_s201.00000°,δ62.00000°,λ-109.00000°. $M_0$2.15000×10^{15}
IDC Error ellipse: s-maj=19.2km s-min=14.1km az=119.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=4.2km az=141.3.
MOS Error ellipse: s-maj=10.5km s-min=7.2km az=84.5.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.1km az=118.0.
JMA IV 09 08 52 18.1–.40 37.61N 143.21E 0 3.6
¶600581759
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA IV 09 09 12 29.2–.40 37.83N 144.30E 59 3.6
¶600581773
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC IV 09 09 51 07.9–.91 39.05N–.07 143.09E–.07 16 3.6b 25 1-68
ISCJB IV 09 09 51 06.1–.66 39.03N–.06 143.24E–.06 16 3.6b **¶17200322**
JMA IV 09 09 51 07.3–.20 39.02N 143.09E 10–2 3.8
IDC IV 09 09 51 11.8–3.8 39.06N 143.15E 48–38 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.5km az=176.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=18.3km az=98.0.
ISC IV 09 09 56 27.6–.89 37.83N–.06 143.85E–.08 35 3.5b 30 2-62
IDC IV 09 09 56 22.4–.97 37.79N 144.16E 0 3.7,3.6 **¶17200323**
ISCJB IV 09 09 56 25.9–.67 37.86N–.05 143.82E–.05 33 3.5b,3.6
JMA IV 09 09 56 26.2–.30 37.97N 143.80E 41 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=18.5km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.0km az=178.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 09 10 03 01.1–.74 37.97N–.07 143.9E–.10 35 3.7b 29 4-150
ISCJB IV 09 10 02 58.8–.69 37.87N–.07 143.9E–.10 33 3.8b,3.8s **¶16532007**
IDC IV 09 10 03 01.7–.81 37.89N 143.90E 37–7 3.8,3.8s
NEIC IV 09 10 03 01.1–.56 37.90N 143.89E 35 4.1b,3.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.5km az=31.0.
IDC Error ellipse: s-maj=20.9km s-min=17.3km az=108.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.7km az=120.0.
ISC IV 09 11 13 50.9–1.5 37.95N–.07 143.3E–.10 19 3.7b 17 2-58
IDC IV 09 11 13 47.0–2.7 37.83N 143.68E 0 3.7,3.6 **¶17200327**
ISCJB IV 09 11 13 51.9–1.5 38.03N–.08 143.2E–.10 19 3.4b,3.6
JMA IV 09 11 13 52.8–.20 38.09N 143.03E 9–4 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=59.1km s-min=30.3km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=10.8km az=14.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 09 11 42 41.4–1.9 36.80N 144.14E 0 3.8,3.7
¶17200331
IDC Error ellipse: s-maj=43.3km s-min=24.6km az=74.0.
ISC IV 09 11 59 31.3–2.1 37.21N–.05 142.36E–.07 2–12 3.5b 29 1-89
NIED IV 09 11 59 00 37.30N 142.40E 35 3.8W **¶17200335**
JMA IV 09 11 59 30.5–.20 37.29N 142.42E 0 4.0
IDC IV 09 11 59 30.7–.93 37.06N 142.54E 0 3.8,3.6L
ISCJB IV 09 11 59 31.9–1.7 37.25N–.05 142.49E–.06 16–11 3.5b,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ15.00000°,λ-106.00000°. NP2:ϕ_s190.00000°,δ75.00000°,λ-86.00000°. $M_0$5.66000×10^{14}
ISCJB Event type ke.
ISC IV 09 12 37 45.9–.79 37.39N–.05 142.56E–.08 21 3.8b 36 1-69
NIED IV 09 12 37 00 37.50N 142.40E 5 3.7W **¶16529588**
IDC IV 09 12 37 42.9–.84 37.38N 142.53E 0 3.9,3.8
ISCJB IV 09 12 37 43.8–.55 37.38N–.05 142.61E–.06 21 3.8b,3.8
JMA IV 09 12 37 43.7–.40 37.50N 142.37E 0 4.1,3.8
NEIC IV 09 12 37 49.2–1.3 37.31N 142.49E 47–12 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ43.00000°,λ-133.00000°. NP2:ϕ_s249.00000°,δ60.00000°,λ-57.00000°. $M_0$4.37000×10^{14}
IDC Error ellipse: s-maj=23.6km s-min=16.5km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.3km az=31.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=8.9km az=55.0.
ISC IV 09 15 02 45.3–1.3 39.83N–.06 144.35E–.09 34 3.9b 26 2-67
IDC IV 09 15 02 39.5–1.9 39.65N 144.82E 0 3.9,3.8b **¶17200343**
ISCJB IV 09 15 02 44.8–1.0 39.85N–.05 144.29E–.07 34 3.8b,3.8b
JMA IV 09 15 02 45.5–.30 39.87N 144.21E 37 3.4,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=62.4km s-min=32.3km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.0km az=35.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 09 15 09 48.7–.77 37.70N–.07 143.19E–.07 24 3.5b 25 2-73
IDC IV 09 15 09 45.2–.85 37.73N 143.32E 0 3.7,3.6 **¶17200345**
ISCJB IV 09 15 09 47.2–.60 37.75N–.06 143.22E–.05 24 3.5b,3.6
JMA IV 09 15 09 50.6–.40 37.67N 142.79E 1 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=17.9km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.9km az=178.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 09 15 18 17.4–.83 37.2N–.10 142.71E–.08 35 3.5b 22 2-89
ISCJB IV 09 15 18 16.1–.63 37.34N–.09 142.73E–.06 35 3.5b,3.4s **¶602945414**
IDC IV 09 15 18 21.2–3.2 37.42N 142.55E 65–29 3.7,3.6
JMA IV 09 15 18 24.9–.30 36.59N 142.06E 27 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=5.9km az=159.0.
IDC Error ellipse: s-maj=25.1km s-min=15.7km az=116.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 09 15 21 29.8–2.3 37.25N–.05 142.01E–.08 7–12 21 1-57
IDC IV 09 15 21 27.4–2.9 37.31N 142.42E 0 3.6,3.6 **¶17200346**
ISCJB IV 09 15 21 32.2–1.6 37.20N–.05 141.91E–.10 26–8 3.4b,3.6
JMA IV 09 15 21 34.3–.20 37.26N 141.81E 38–3 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=59.9km s-min=33.4km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=7.6km az=177.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 15 26 19.5–1.2 37.67N–.07 144.09E–.08 35 3.5b 25 2-62
IDC IV 09 15 26 14.9–1.5 37.34N 144.22E 0 3.6,3.4L **¶17200347**
ISCJB IV 09 15 26 17.9–.92 37.68N–.05 144.08E–.06 33 3.5b,3.4L
JMA IV 09 15 26 18.8–.20 37.71N 143.92E 24 3.4,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=28.2km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=7.0km az=25.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA IV 09 16 30 46.9–.30 39.63N 143.52E 9–4 3.6
¶600582013
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC IV 09 16 47 09.9–2.5 36.97N 143.74E 0 3.5,3.4
¶17200350
IDC Error ellipse: s-maj=56.1km s-min=32.8km az=62.0.
ISC IV 09 17 10 52.9–1.9 36.70N–.09 142.2E–.10 19 13 1-45
IDC IV 09 17 10 48.0–5.8 36.65N 142.60E 0 3.5,3.4 **¶17200351**
JMA IV 09 17 10 51.7–.30 36.76N 142.32E 30 3.0,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=97.6km s-min=33.3km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 09 17 28 34.2–1.1 37.55N–.05 143.59E–.08 35 3.6b 30 2-69
IDC IV 09 17 28 29.3–1.2 37.54N 143.89E 0 3.6,3.5 **¶17200355**
ISCJB IV 09 17 28 33.0–.78 37.53N–.04 143.52E–.06 33 3.5b,2.9s
JMA IV 09 17 28 33.7–.20 37.64N 143.51E 40 3.5,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=35.9km s-min=24.1km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=1.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 09 17 44 02.2–1.8 34.88N–.07 142.6E–.10 42 3.3b 21 1-59
IDC IV 09 17 43 58.7–2.1 34.64N 142.58E 0 3.4b,3.4 **¶17200356**
JMA IV 09 17 44 00.0–.40 34.99N 142.63E 41 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=41.2km s-min=25.2km az=54.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 09 17 59 36.6–.89 37.93N–.05 144.18E–.07 35 3.5b 41 2-62
IDC IV 09 17 59 32.1–.96 37.91N 144.36E 0 3.7,3.6 **¶17200358**
ISCJB IV 09 17 59 34.8–.58 37.96N–.04 144.16E–.04 33 3.4b,3.6
JMA IV 09 17 59 35.2–.20 38.01N 144.13E 39 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=17.4km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=162.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 09 18 15 29.3–.20 36.25N 143.67E 43 3.7
NIED IV 09 18 15 00 36.30N 143.70E 8 3.6W **¶600582105**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ23.00000°,λ-98.00000°. NP2:ϕ_s227.00000°,δ68.00000°,λ-87.00000°. $M_0$2.60000×10^{14}
JMA IV 09 18 45 21.8–.40 38.87N 143.89E 0 3.9
¶600582118
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 09 18 51 14.4–4.4 37.80N–.06 143.46E–.06 15–27 4.3b 106 2-88
IDC IV 09 18 51 11.4–.53 37.68N 143.58E 0 4.2,4.1 **¶16506263**
ISCJB IV 09 18 51 14.2–1.5 37.77N–.04 143.46E–.04 27–11 4.2b,2.9s
JMA IV 09 18 51 14.4–.20 37.82N 143.48E 42 4.3,2.9s
NEIC IV 09 18 51 15.9–2.0 37.70N 143.57E 28–14 4.6b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=11.6km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=169.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.1km az=140.0.
IDC IV 09 18 55 50.4–1.8 37.36N 142.04E 0 3.7,3.6
¶17200362
IDC Error ellipse: s-maj=38.7km s-min=21.1km az=88.0.
ISC IV 09 20 06 14.0–1.1 36.06N–.06 142.32E–.09 18 3.5b 20 1-60
NIED IV 09 20 06 00 36.20N 142.50E 8 3.5W **¶17200369**
JMA IV 09 20 06 11.9–.30 36.16N 142.50E 26 3.6
IDC IV 09 20 06 11.2–1.1 35.99N 142.34E 0 3.6,3.5
ISCJB IV 09 20 06 12.1–.90 36.14N–.05 142.43E–.08 18 3.5b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ41.00000°,λ90.00000°. NP2:ϕ_s19.00000°,δ49.00000°,λ90.00000°. $M_0$2.17000×10^{14}
ISCJB Event type ke.
IDC IV 09 20 53 00.2–2.3 34.03N 141.74E 0 3.3,3.3b
¶17200375
IDC Error ellipse: s-maj=40.1km s-min=28.6km az=94.0.
ISC IV 09 21 42 42.2–1.5 36.68N–.10 142.2E–.10 19 3.3b 9 1-57
IDC IV 09 21 42 37.8–2.8 36.76N 142.49E 0 3.5,3.4 **¶17200379**
JMA IV 09 21 43 15.6 36.72N 140.60E 5–1 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=60.5km s-min=29.9km az=72.0.
IDC IV 09 22 22 01.0–2.4 34.13N 141.89E 0 3.5,3.4
¶17200382
IDC Error ellipse: s-maj=54.4km s-min=27.2km az=73.0.
IDC IV 09 22 24 04.2–9.7 35.98N 143.98E 0 3.7,3.6b
¶17200383
IDC Error ellipse: s-maj=218.1km s-min=46.0km az=37.0.
ISC IV 09 22 53 00.3–.61 37.39N–.05 142.57E–.07 21 4.0b,3.4s 53 1-89
NIED IV 09 22 52 00 37.40N 142.50E 8 4.0W,3.4s **¶16506266**
IDC IV 09 22 52 57.2–.67 37.37N 142.60E 0 4.2,4.0
ISCJB IV 09 22 52 58.7–.44 37.41N–.04 142.62E–.05 21 4.0b,3.4s
JMA IV 09 22 52 58.9–.40 37.44N 142.46E 9–4 4.2,3.4s
NEIC IV 09 22 53 02.2–2.6 37.45N 142.65E 32–18 4.1b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ33.00000°,λ-121.00000°. NP2:ϕ_s57.00000°,δ62.00000°,λ-71.00000°. $M_0$1.27000×10^{15}
IDC Error ellipse: s-maj=19.0km s-min=14.6km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.8km az=151.4.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.4km az=135.0.
ISC IV 09 23 02 19.6–2.2 36.12N–.06 142.41E–.09 19–5 3.5b 21 1-56
IDC IV 09 23 02 17.1–3.0 35.80N 142.40E 0 3.6,3.5b **¶17200385**
ISCJB IV 09 23 02 18.7–2.3 36.17N–.05 142.46E–.10 20–22 3.4b,3.5b
JMA IV 09 23 02 19.0–.20 36.17N 142.51E 76 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=87.5km s-min=32.2km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=8.9km az=2.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 10 00 21 19.1–.60 34.82N 142.79E 11 3.6
¶600582324
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
ISC IV 10 01 07 27.2–3.3 38.00N–.06 142.6E–.10 15–16 3.5b 25 1-46
NIED IV 10 01 07 00 38.00N 142.70E 23 3.6W **¶600582372**
IDC IV 10 01 07 15.9–6.8 37.55N 143.86E 0 3.7b,3.6
JMA IV 10 01 07 25.9–.30 37.98N 142.67E 22 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ33.00000°,λ178.00000°. NP2:ϕ_s26.00000°,δ89.00000°,λ57.00000°. $M_0$2.79000×10^{14}
IDC Error ellipse: s-maj=114.4km s-min=62.2km az=126.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 10 01 10 35.1–1.4 37.08N–.07 142.2E–.10 10 3.5b 17 1-57
NIED IV 10 01 10 00 37.20N 142.60E 5 3.4W **¶17200397**
ISCJB IV 10 01 10 31.8–1.2 37.06N–.06 142.5E–.10 10 3.5b
IDC IV 10 01 10 31.5–2.3 37.17N 142.57E 0 3.6,3.6
JMA IV 10 01 10 32.7–.40 37.16N 142.58E 37 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ67.00000°,λ-172.00000°. NP2:ϕ_s227.00000°,δ82.00000°,λ-23.00000°. $M_0$1.41000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=8.2km az=162.4.
IDC Error ellipse: s-maj=56.1km s-min=24.4km az=74.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 10 02 39 19.4–1.6 36.8N–.20 143.7E–.10 35 3.4b 8 4-61
IDC IV 10 02 39 13.1–2.6 36.88N 144.01E 0 3.6,3.4 **¶17200407**
ISC Event type ke.
IDC Error ellipse: s-maj=77.5km s-min=23.3km az=62.0.
ISC IV 10 02 56 13.2–4.0 37.81N–.07 143.66E–.08 25–29 3.6b 30 2-69
NIED IV 10 02 56 00 37.80N 143.60E 5 3.8W **¶17200409**
JMA IV 10 02 56 12.9–.20 37.84N 143.59E 39 3.9
IDC IV 10 02 56 15.5–4.6 37.70N 143.61E 45–45 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ42.00000°,λ-96.00000°. NP2:ϕ_s60.00000°,δ48.00000°,λ-84.00000°. $M_0$6.57000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=23.0km az=110.0.
ISC IV 10 03 13 23.4–3.2 37.45N–.04 142.12E–.05 18–20 4.1b,3.3s 56 1-146
NIED IV 10 03 13 00 37.50N 141.90E 44 4.1W,3.3s **¶16532008**
IDC IV 10 03 13 19.9–.83 37.60N 142.46E 0 4.0,4.0b
NEIC IV 10 03 13 25.9–.95 37.47N 142.21E 40–8 4.4b,4.0b
JMA IV 10 03 13 26.5–.10 37.46N 141.94E 36–3 4.0,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ5.00000°,λ-148.00000°. NP2:ϕ_s10.00000°,δ87.00000°,λ-86.00000°. $M_0$1.60000×10^{15}
IDC Error ellipse: s-maj=20.3km s-min=17.0km az=95.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.1km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 10 03 39 47.7–.30 38.57N 144.16E 35 3.9
NIED IV 10 03 39 00 38.60N 144.20E 8 3.6W **¶600582473**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ43.00000°,λ-84.00000°. NP2:ϕ_s155.00000°,δ47.00000°,λ-95.00000°. $M_0$2.63000×10^{14}
ISC IV 10 04 57 28.6–2.8 39.27N–.06 143.07E–.07 14–16 3.9b 37 1-83
JMA IV 10 04 57 27.4–.30 39.28N 143.14E 12–3 4.0 **¶17200423**
ISCJB IV 10 04 57 29.4–2.0 39.26N–.05 143.15E–.05 33–15 4.4s,3.7b
IDC IV 10 04 57 33.0–2.8 39.26N 143.09E 47–27 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.7km az=4.3.
IDC Error ellipse: s-maj=18.3km s-min=15.4km az=115.0.
ISC IV 10 05 11 57.0–1.7 37.65N–.05 143.00E–.09 10 3.6b 27 2-58
IDC IV 10 05 11 51.3–2.5 37.17N 143.64E 0 3.7,3.6b **¶17200425**
JMA IV 10 05 11 52.5–.30 37.56N 143.34E 22 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=67.8km s-min=29.4km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 10 05 23 29.3–.66 37.07N–.04 143.45E–.04 28–4 4.6b,4.1s 437 2-145
NIED IV 10 05 23 00 37.10N 143.30E 11 4.3W,4.1s **¶16416039**
IDC IV 10 05 23 25.0–.52 36.99N 143.47E 0 4.5,4.5
BJI IV 10 05 23 26.3 37.09N 143.84E 40 4.8b,4.6b
ISCJB IV 10 05 23 27.5–1.0 37.05N–.03 143.33E–.02 25–7 4.5b,4.1s
NEIC IV 10 05 23 28.4–1.5 36.93N 143.43E 21–11 4.7b,4.1s
MOS IV 10 05 23 28.8–.82 37.27N 143.33E 26 4.9b,4.1s
JMA IV 10 05 23 29.1–.20 37.06N 143.29E 57 4.3,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ37.00000°,λ-124.00000°. NP2:ϕ_s41.00000°,δ60.00000°,λ-67.00000°. $M_0$2.98000×10^{15}
IDC Error ellipse: s-maj=13.4km s-min=11.6km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=171.4.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.3km az=142.0.
MOS Error ellipse: s-maj=8.4km s-min=5.8km az=99.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 05 52 39.0–3.9 38.81N–.04 144.21E–.07 27–27 4.0s,3.9b 70 2-145
NIED IV 10 05 52 00 38.80N 144.10E 5 3.9W,3.9b **¶16506272**
IDC IV 10 05 52 34.5–.67 38.65N 144.33E 0 4.0,3.9
NEIC IV 10 05 52 36.1–.38 38.70N 144.30E 10 4.2b,3.9
ISCJB IV 10 05 52 37.1–1.4 38.70N–.04 144.19E–.04 30–10 4.0s,3.9b
JMA IV 10 05 52 38.6–.30 38.84N 144.14E 44 4.5,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ44.00000°,λ-100.00000°. NP2:ϕ_s14.00000°,δ47.00000°,λ-81.00000°. $M_0$8.22000×10^{14}
IDC Error ellipse: s-maj=18.5km s-min=14.0km az=127.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.9km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=136.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 10 05 55 57.2–.85 36.47N–.06 143.07E–.07 29 3.6b 33 2-89
IDC IV 10 05 55 52.5–.83 36.37N 143.23E 0 3.8,3.7b **¶16506273**
ISCJB IV 10 05 55 55.2–.61 36.46N–.05 143.06E–.05 29 3.7b,3.7b
JMA IV 10 05 55 56.7–.20 36.48N 143.00E 70 3.3,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.9km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.4km az=172.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 10 06 00 45.6–1.6 37.48N 144.56E 0 3.9,3.7b
¶17200427
IDC Error ellipse: s-maj=56.1km s-min=31.4km az=127.0.
ISC IV 10 06 36 31.0–.93 38.5N–.10 144.8E–.10 43 3.5b 11 6-75
IDC IV 10 06 36 25.1–.84 38.48N 144.96E 0 3.8,3.6 **¶16706249**
ISCJB IV 10 06 36 29.1–.72 38.5N–.10 144.8E–.10 43 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 10 06 36 49.1–.65 38.40N–.07 144.64E–.08 35 3.9b 35 4-87
IDC IV 10 06 36 44.3–.68 38.47N 144.84E 0 4.1,4.0 **¶17200430**
ISCJB IV 10 06 36 47.2–.48 38.37N–.05 144.68E–.08 35 3.9b,4.0
NEIC IV 10 06 36 49.4–2.1 38.48N 144.74E 34–15 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=14.4km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.6km az=33.5.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.4km az=118.0.
ISC IV 10 06 37 27.0–1.9 37.92N–.05 142.27E–.06 13–11 3.9b 34 1-146
IDC IV 10 06 37 25.1–.68 37.93N 142.21E 0 4.2,4.0 **¶17200432**
JMA IV 10 06 37 29.3–.30 37.96N 142.25E 31–5 4.1,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=15.5km az=121.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 10 07 03 51.4–.30 35.65N 142.65E 1 3.5
¶600582581
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 10 07 12 34.8–1.2 37.30N–.07 142.10E–.09 24 3.6b 19 1-69
NIED IV 10 07 12 00 37.30N 142.30E 8 3.6W **¶17200433**
IDC IV 10 07 12 29.8–1.6 37.26N 142.56E 0 3.7,3.7b
JMA IV 10 07 12 30.1–.20 37.31N 142.31E 8–3 3.8,3.7b
ISCJB IV 10 07 12 31.8–.87 37.33N–.06 142.36E–.08 24 3.6b,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ42.00000°,λ-76.00000°. NP2:ϕ_s258.00000°,δ50.00000°,λ-103.00000°. $M_0$3.31000×10^{14}
ISCJB Event type ke.
ISC IV 10 07 56 00.6–.55 36.31N–.05 142.62E–.07 15 4.0b,3.3s 58 2-146
IDC IV 10 07 55 58.9–.61 36.33N 142.56E 0 4.1,4.0 **¶600582619**
ISCJB IV 10 07 55 59.2–.43 36.33N–.04 142.58E–.05 15 4.0b,3.5s
NIED IV 10 07 56 00 36.30N 142.50E 8 4.2W,3.5s
JMA IV 10 07 56 01.6–.30 36.34N 142.53E 79 3.8,3.5s
NEIC IV 10 07 56 03.5–.49 36.30N 142.57E 35 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=13.3km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.0km az=29.7.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ34.00000°,λ82.00000°. NP2:ϕ_s20.00000°,δ56.00000°,λ95.00000°. $M_0$2.04000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=120.0.
ISC IV 10 08 48 18.5–.74 35.53N–.05 142.68E–.07 56 3.6b 30 1-147
IDC IV 10 08 48 11.5–.72 35.43N 142.91E 0 3.9,3.7 **¶17200439**
JMA IV 10 08 48 15.5–.30 35.54N 142.68E 82 3.0,3.7
ISCJB IV 10 08 48 16.7–.57 35.46N–.05 142.63E–.05 56 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 10 09 17 20.7–1.4 38.39N–.07 144.0E–.10 14 3.7b 25 2-59
IDC IV 10 09 17 17.7–1.9 38.36N 144.27E 0 4.5,4.5s **¶17200440**
ISCJB IV 10 09 17 20.2–.99 38.39N–.06 143.93E–.07 14 4.5s,3.7b
JMA IV 10 09 17 22.6–.20 38.44N 143.89E 34 3.9,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=49.2km s-min=27.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=8.0km az=167.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 10 09 32 51.7–3.1 36.38N 142.51E 0 3.5,3.5b
¶600582667
IDC Error ellipse: s-maj=85.1km s-min=30.2km az=58.0.
ISC IV 10 09 34 46.4–1.0 37.37N–.06 143.84E–.09 35 3.7b 32 2-61
IDC IV 10 09 34 41.8–.93 37.23N 144.11E 0 3.7,3.6 **¶17200444**
ISCJB IV 10 09 34 44.4–.67 37.35N–.04 143.91E–.06 33 3.6b,3.6
JMA IV 10 09 34 45.2–.40 37.29N 143.83E 52 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=17.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.1km az=43.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 10 09 49 32.4–1.0 37.97N–.06 143.82E–.08 35 3.8b 33 2-69
IDC IV 10 09 49 26.7–.95 37.84N 144.01E 0 3.8,3.8 **¶17200446**
ISCJB IV 10 09 49 30.1–.66 37.95N–.04 143.84E–.05 33 3.8s,3.6b
JMA IV 10 09 49 30.2–.30 37.98N 143.82E 38 3.9,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=29.9km s-min=18.1km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=6.0km az=40.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 10 09 50 34.6–.82 37.97N–.06 143.87E–.07 35 3.8b 38 2-75
IDC IV 10 09 50 28.8–.79 37.83N 144.01E 0 4.0,3.9 **¶17200447**
ISCJB IV 10 09 50 32.5–.58 37.96N–.05 143.86E–.05 33 3.8b,3.2s
JMA IV 10 09 50 32.9–.30 37.98N 143.81E 41 4.1,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=22.3km s-min=15.4km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.3km az=6.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 10 10 00 45.0–.76 38.24N–.07 143.40E–.08 19 3.7b 26 2-76
NIED IV 10 10 00 00 38.30N 143.40E 29 3.9W **¶17200448**
IDC IV 10 10 00 42.1–.77 38.23N 143.59E 0 3.8,3.7
ISCJB IV 10 10 00 43.2–.60 38.23N–.07 143.47E–.07 19 3.6b,3.7
JMA IV 10 10 00 45.3–.30 38.34N 143.38E 43 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ67.00000°,λ14.00000°. NP2:ϕ_s319.00000°,δ77.00000°,λ156.00000°. $M_0$6.75000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=15.6km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.9km az=157.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 10 10 29 47.7–.86 38.4N–.10 144.8E–.10 43 3.6b 13 6-87
IDC IV 10 10 29 41.8–.77 38.43N 144.91E 0 3.9,3.6 **¶17200449**
ISCJB IV 10 10 29 45.9–.69 38.4N–.10 144.7E–.10 43 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 10 10 30 30.1–.54 36.36N–.07 142.39E–.07 15 4.0b 40 1-146
NIED IV 10 10 30 00 36.50N 142.30E 8 3.8W **¶16506275**
IDC IV 10 10 30 27.9–.58 36.37N 142.46E 0 4.0,3.9
ISCJB IV 10 10 30 28.3–.43 36.31N–.05 142.45E–.06 15 3.9b,3.9
JMA IV 10 10 30 30.9–.20 36.48N 142.31E 26 3.6,3.9
NEIC IV 10 10 30 33.4–1.4 36.36N 142.46E 37–12 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ42.00000°,λ48.00000°. NP2:ϕ_s15.00000°,δ60.00000°,λ121.00000°. $M_0$6.26000×10^{14}
IDC Error ellipse: s-maj=14.7km s-min=14.3km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=6.0km az=147.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.8km az=117.0.
JMA IV 10 11 03 48.3–.30 37.93N 144.38E 43 3.8
¶600582721
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 10 11 37 45.0–.30 38.55N 144.59E 32 3.8
¶600582747
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 10 11 53 04.5–1.0 36.09N–.06 143.58E–.09 35 3.5b 19 2-89
IDC IV 10 11 52 59.5–.98 36.00N 143.81E 0 3.6,3.4 **¶17200456**
NIED IV 10 11 53 00 36.20N 143.50E 17 3.5W,3.4
ISCJB IV 10 11 53 02.7–.77 36.06N–.05 143.54E–.07 33 3.5b,3.4
JMA IV 10 11 53 04.4–.20 36.24N 143.52E 38 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=30.1km s-min=23.0km az=119.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ46.00000°,λ-12.00000°. NP2:ϕ_s141.00000°,δ81.00000°,λ-135.00000°. $M_0$2.30000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.5km az=142.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 10 13 33 15.5–1.1 39.71N–.07 143.02E–.08 18 3.6b 19 1-72
NIED IV 10 13 33 00 39.80N 143.20E 23 3.7W **¶17200465**
IDC IV 10 13 33 11.8–1.3 39.64N 143.28E 0 3.7b,3.7
ISCJB IV 10 13 33 13.0–.84 39.65N–.07 143.27E–.09 18 3.6b,3.7
JMA IV 10 13 33 15.1–.70 39.77N 143.16E 29 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ26.00000°,λ50.00000°. NP2:ϕ_s16.00000°,δ71.00000°,λ107.00000°. $M_0$3.75000×10^{14}
IDC Error ellipse: s-maj=35.9km s-min=20.6km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=9.3km az=158.4.
JMA Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
JMA IV 10 14 25 02.0–.30 37.91N 143.86E 34 3.5
¶600582879
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 10 15 33 21.1–.81 39.86N–.07 143.51E–.07 6 3.7b 25 1-72

NIED IV 10 15 33 00 39.90N 143.60E 14 3.9W ¶17200477
ISCJB IV 10 15 33 19.4–.60 39.85N–.06 143.67E–.07 6 3.7b,3.0s
IDC IV 10 15 33 20.1–.75 39.85N 143.47E 0 3.9,3.7
JMA IV 10 15 33 21.8–.70 39.87N 143.56E 16 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ34.00000°,λ84.00000°. NP2:ϕ_s23.00000°,δ56.00000°,λ94.00000°. $M_0$8.00000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.8km az=147.2.
IDC Error ellipse: s-maj=20.5km s-min=15.8km az=112.0.
JMA Error ellipse: s-maj=3.3km s-min=5.1km az=-1.0.
IDC IV 10 17 04 51.1–2.5 39.23N 143.11E 0 3.8,3.6b ¶17200481
IDC Error ellipse: s-maj=66.3km s-min=32.4km az=66.0.
ISC IV 10 17 39 56.2–1.8 37.39N–.08 142.5E–.20 21 3.2b 12 1-58
JMA IV 10 17 39 51.7–.40 37.37N 142.49E 0 3.6 ¶17200484
IDC IV 10 17 39 52.2–2.7 37.40N 142.75E 0 3.3,3.3b
ISCJB IV 10 17 39 53.8–1.7 37.33N–.08 142.5E–.20 21 3.2b,3.3b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 10 17 54 10.0–.52 37.16N–.05 142.18E–.05 19 4.1b,3.2s 63 1-146
JMA IV 10 17 54 06.6–.30 37.28N 142.31E 0 4.4,3.2s ¶16577780
ISCJB IV 10 17 54 07.8–.36 37.13N–.04 142.38E–.04 19 4.1b,3.2s
IDC IV 10 17 54 07.1–.53 37.15N 142.34E 0 4.2,4.1
NEIC IV 10 17 54 09.5–3.1 37.19N 142.29E 16–19 4.6b,4.1
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.5km az=139.9.
IDC Error ellipse: s-maj=15.9km s-min=12.0km az=113.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=5.8km az=127.0.
ISC IV 10 18 38 56.8–.64 35.53N–.05 144.26E–.07 35 3.9b,3.2s 66 3-82
NIED IV 10 18 38 00 35.60N 144.20E 8 4.0W,3.2s ¶16577781
IDC IV 10 18 38 50.9–.66 35.38N 144.47E 0 4.0,3.9
NEIC IV 10 18 38 52.2–.38 35.33N 144.43E 10 4.0b,3.9
ISCJB IV 10 18 38 55.0–.44 35.52N–.04 144.18E–.04 33 3.9b,3.4s
JMA IV 10 18 38 56.4–.40 35.63N 144.16E 52 4.2,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ25.00000°,λ-89.00000°. NP2:ϕ_s205.00000°,δ65.00000°,λ-90.00000°. $M_0$1.31000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=13.8km az=125.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.9km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=170.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC IV 10 18 44 35.0–5.8 36.25N 143.13E 0 3.4,3.4 ¶17200493
IDC Error ellipse: s-maj=99.6km s-min=33.4km az=109.0.
ISC IV 10 19 07 05.8–.66 36.31N–.08 142.03E–.08 19 3.4b 19 3-147
ISCJB IV 10 19 07 04.0–.57 36.31N–.06 141.99E–.08 19 3.4b ¶17200494
IDC IV 10 19 07 03.5–.78 36.50N 142.10E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.7km az=43.0.
IDC Error ellipse: s-maj=22.5km s-min=18.2km az=145.0.
ISC IV 10 19 57 13.9–1.1 35.48N–.04 142.89E–.06 24–6 4.2b,4.2s 87 2-146
NIED IV 10 19 57 00 35.50N 142.90E 5 4.2W,4.2s ¶16506278
IDC IV 10 19 57 10.0–.56 35.40N 143.01E 0 4.3,4.2
ISCJB IV 10 19 57 13.6–1.6 35.47N–.04 142.84E–.04 33–11 4.2b,3.9s
JMA IV 10 19 57 13.3–.30 35.51N 142.87E 84 3.8,3.9s
NEIC IV 10 19 57 15.7–.97 35.38N 142.87E 40–8 4.5b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ29.00000°,λ-111.00000°. NP2:ϕ_s215.00000°,δ64.00000°,λ-79.00000°. $M_0$2.23000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=12.8km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=148.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.3km az=105.0.
ISC IV 10 20 15 32.7–1.4 35.34N–.09 142.7E–.10 59 14 2-71
IDC IV 10 20 15 25.8–1.6 35.32N 143.09E 0 3.7,3.5b ¶17200498
ISCJB IV 10 20 15 30.5–1.1 35.34N–.08 142.77E–.09 59 3.6b,3.4s
JMA IV 10 20 15 30.1–.50 35.52N 142.70E 20 3.5,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=42.2km s-min=28.5km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=9.8km az=21.6.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC IV 10 20 54 32.3–.98 39.10N–.09 144.65E–.09 19 3.3b 21 2-68
NIED IV 10 20 54 00 39.20N 144.50E 5 3.7W ¶17200501
ISCJB IV 10 20 54 30.2–.82 38.99N–.09 144.70E–.08 19 3.5b,3.4s
JMA IV 10 20 54 33.6–.30 39.20N 144.53E 38 3.9,3.4s
IDC IV 10 20 54 34.6–4.2 38.88N 144.80E 42–39 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ16.00000°,λ-117.00000°. NP2:ϕ_s192.00000°,δ76.00000°,λ-83.00000°. $M_0$3.98000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.7km az=160.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=30.2km s-min=20.1km az=101.0.
ISC IV 10 21 02 53.4–2.0 39.9N–.20 143.6E–.30 6 3.5b 6 5-67
ISCJB IV 10 21 02 51.1–1.9 39.8N–.20 143.7E–.30 6 3.4b ¶17200502
IDC IV 10 21 02 52.4–2.0 39.85N 143.65E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.3km s-min=21.6km az=6.8.
IDC Error ellipse: s-maj=53.9km s-min=26.4km az=78.0.
ISC IV 10 21 17 11.4–.86 37.54N–.10 143.7E–.10 35 3.6b 16 5-75
ISCJB IV 10 21 17 09.0–.72 37.48N–.08 143.7E–.10 33 3.6b ¶17200505
IDC IV 10 21 17 11.8–5.5 37.62N 143.66E 35–46 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.3km az=136.4.
IDC Error ellipse: s-maj=25.6km s-min=20.8km az=132.0.
ISC IV 10 21 51 58.9–.65 37.78N–.05 144.60E–.07 35 3.9b 59 3-75
ISCJB IV 10 21 51 56.6–.44 37.70N–.04 144.59E–.04 33 3.9b ¶16506280
IDC IV 10 21 51 58.8–.77 37.66N 144.72E 35–6 4.0L,3.9
JMA IV 10 21 51 58.1–.30 37.82N 144.53E 51 4.6,3.9
NEIC IV 10 21 51 58.8–.42 37.71N 144.66E 35 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=159.2.
IDC Error ellipse: s-maj=16.5km s-min=14.0km az=119.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.1km az=128.0.
IDC IV 10 22 46 33.1–2.7 37.22N 144.56E 0 3.6,3.5b ¶17200508
IDC Error ellipse: s-maj=58.2km s-min=34.8km az=44.0.
JMA IV 10 23 29 22.2–.30 38.19N 143.94E 42 3.5 ¶600583074
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 10 23 54 30.4–.30 38.43N 144.41E 26 3.6 ¶600583089
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 11 00 11 05.0–.86 37.22N–.05 142.80E–.08 24–5 3.5b 35 2-75
NIED IV 11 00 11 00 37.20N 142.80E 23 3.6W ¶17200512
IDC IV 11 00 11 01.1–.92 37.08N 142.94E 0 3.7,3.6
JMA IV 11 00 11 03.8–.30 37.20N 142.84E 45 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ44.00000°,λ90.00000°. NP2:ϕ_s39.00000°,δ46.00000°,λ90.00000°. $M_0$2.76000×10^{14}
IDC Error ellipse: s-maj=24.4km s-min=20.8km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC IV 11 02 21 20.2–2.4 36.85N 142.30E 0 3.6,3.6b ¶16706350
IDC Error ellipse: s-maj=65.6km s-min=27.4km az=65.0.
ISC IV 11 02 26 32.7–.00 37.49N–.05 142.49E–.04 15–5 4.4b,3.7s 173 1-146
NIED IV 11 02 26 00 37.30N 142.60E 5 4.3W,3.7s ¶600583156
JMA IV 11 02 26 27.7–.30 37.31N 142.59E 0 4.5,3.7s
ISCJB IV 11 02 26 29.5–1.1 37.50N–.05 142.56E–.04 4–6 4.3b,3.7s
BJI IV 11 02 26 31.1 37.69N 142.65E 19 4.7b,4.5b
NEIC IV 11 02 26 33.2–2.1 37.39N 142.55E 22–13 4.4b,4.5b
MOS IV 11 02 26 34.9–.98 37.69N 142.38E 31 4.5b,4.5b
IDC IV 11 02 26 35.4–2.6 37.27N 142.53E 41–22 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s151.00000°,δ35.00000°,λ-151.00000°. NP2:ϕ_s36.00000°,δ74.00000°,λ-58.00000°. $M_0$3.67000×10^{15}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=3.9km az=153.4.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=6.4km az=133.0. Recorded [1 JMA] in Fukushima.
MOS Error ellipse: s-maj=8.9km s-min=6.0km az=104.1.
IDC Error ellipse: s-maj=16.3km s-min=13.6km az=126.0.
JMA IV 11 02 47 16.9–.20 37.52N 143.66E 51 3.7 ¶600583181
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 11 04 28 55.3–.72 40.27N–.07 143.59E–.08 35 4.1b 48 2-87
IDC IV 11 04 28 50.0–1.3 40.15N 143.52E 0 4.2,4.0 ¶16505323
MOS IV 11 04 28 52.4–.91 40.13N 143.56E 31 4.4b,4.0
ISCJB IV 11 04 28 54.0–.57 40.29N–.06 143.54E–.08 35 4.0b,4.0
NEIC IV 11 04 28 53.6–2.2 40.16N 143.51E 23–15 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=32.7km s-min=16.1km az=167.0.
MOS Error ellipse: s-maj=11.0km s-min=7.2km az=85.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=4.7km az=44.7.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.8km az=129.0.
ISC IV 11 05 51 45.8–.87 38.1N–.10 144.41E–.08 35 3.6b 26 2-118
IDC IV 11 05 51 40.0–.82 37.97N 144.64E 0 3.9,3.8 ¶17200530
ISCJB IV 11 05 51 43.7–.70 37.98N–.08 144.40E–.06 33 3.7b,3.8
JMA IV 11 05 51 44.8–.30 38.12N 144.26E 27 4.4,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=20.6km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.6km az=179.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 11 07 15 41.7–.68 38.48N–.05 144.43E–.07 29 3.8b 49 2-87
NIED IV 11 07 15 00 38.60N 144.40E 5 3.9W ¶17200535
IDC IV 11 07 15 36.8–.74 38.26N 144.55E 0 3.9,3.7
ISCJB IV 11 07 15 40.6–.53 38.58N–.04 144.36E–.04 29 3.7b,2.7s
JMA IV 11 07 15 41.2–.20 38.56N 144.36E 41 4.1,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ37.00000°,λ-98.00000°. NP2:ϕ_s181.00000°,δ54.00000°,λ-84.00000°. $M_0$7.34000×10^{14}
IDC Error ellipse: s-maj=19.6km s-min=17.5km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.9km az=162.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 11 08 52 22.7–.67 38.71N–.07 144.28E–.09 35 4.2b 32 3-144
ISCJB IV 11 08 52 20.5–.51 38.62N–.06 144.21E–.08 35 4.1b ¶16587455
IDC IV 11 08 52 21.9–7.3 38.61N 144.30E 30–52 4.1,4.1
NEIC IV 11 08 52 22.4–.47 38.65N 144.31E 35 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=6.1km az=41.9.
IDC Error ellipse: s-maj=19.4km s-min=15.4km az=125.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.2km az=135.0.
ISC IV 11 09 17 13.5–.40 37.78N–.04 142.72E–.04 31–2 5.0s,4.7b 307 1-154
IDC IV 11 09 17 09.0–.47 37.76N 142.56E 0 4.5,4.5 ¶16416814
BJI IV 11 09 17 10.1 37.57N 142.35E 10 5.4s,5.0
ISCJB IV 11 09 17 10.1–1.1 37.73N–.03 142.57E–.03 15–7 4.9s,4.6b
MOS IV 11 09 17 11.3–1.2 37.89N 142.55E 23 4.8b,4.6b
JMA IV 11 09 17 13.3–.30 37.82N 142.52E 36 4.8,4.6b
NEIC IV 11 09 17 14.6–.15 37.74N 142.55E 35 4.7b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=13.2km s-min=11.4km az=112.0.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=162.4.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=92.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.0km az=145.0.
IDC IV 11 09 43 36.2–16 35.22N 143.11E 0 3.9,3.6 ¶17200575
IDC Error ellipse: s-maj=607.3km s-min=33.5km az=10.0.
ISC IV 11 12 56 48.9–.54 35.77N–.06 143.38E–.07 35 3.8b 41 4-146
IDC IV 11 12 56 44.7–.63 35.97N 143.46E 0 4.0,3.9 ¶16505334
ISCJB IV 11 12 56 47.4–.46 35.84N–.06 143.35E–.06 33 3.9b,3.9
NEIC IV 11 12 56 49.3–.40 35.84N 143.44E 35 4.4b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=14.4km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.4km az=153.9.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.6km az=156.0.
ISC IV 11 14 31 57.8–.83 39.08N–.07 143.47E–.07 20 3.7b 32 1-68
IDC IV 11 14 31 54.8–.86 39.07N 143.60E 0 3.9,3.8 ¶17200633
ISCJB IV 11 14 31 56.0–.60 39.09N–.05 143.53E–.05 20 3.7b,3.8
JMA IV 11 14 31 57.9–.20 39.14N 143.39E 20 4.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=23.6km s-min=15.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.6km az=175.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 11 14 35 49.5–1.2 37.81N 144.22E 0 3.6,3.4 ¶17200634
IDC Error ellipse: s-maj=28.9km s-min=24.3km az=138.0.
ISC IV 11 15 00 44.2–1.0 37.99N–.07 144.44E–.08 35 3.5b 25 2-72
IDC IV 11 15 00 38.4–1.2 37.86N 143.96E 0 3.7,3.5 ¶600583841
ISCJB IV 11 15 00 41.4–.80 37.96N–.04 144.50E–.06 33 3.4b,3.5
JMA IV 11 15 00 45.5–.40 37.86N 144.25E 54 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=22.4km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.5km az=21.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 11 15 08 08.5–.45 37.59N–.05 142.58E–.05 35 4.2b,4.1s 120 1-146
IDC IV 11 15 08 03.9–.57 37.61N 142.48E 0 4.2,4.1 ¶16417148
JMA IV 11 15 08 03.1–.20 37.65N 142.53E 0 4.4,4.1
ISCJB IV 11 15 08 06.7–.32 37.62N–.03 142.60E–.04 35 4.3b,3.8s
BJI IV 11 15 08 06.3 37.45N 142.36E 17 4.7b,4.5b
MOS IV 11 15 08 07.4–1.1 37.69N 142.52E 37 4.5b,4.5b
NEIC IV 11 15 08 08.8–.42 37.62N 142.55E 35–2 4.5b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=12.8km az=104.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.6km az=138.1.
MOS Error ellipse: s-maj=9.3km s-min=6.3km az=90.4.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=123.0.
IDC IV 11 16 12 45.8–2.4 36.90N 142.24E 0 3.5,3.5L ¶600583926
IDC Error ellipse: s-maj=58.3km s-min=25.5km az=61.0.
IDC IV 11 17 23 32.4–1.2 37.04N 143.63E 0 3.7,3.5 ¶17200660
IDC Error ellipse: s-maj=36.6km s-min=25.5km az=82.0.
ISC IV 11 17 35 13.6–.69 37.09N–.05 143.88E–.08 35 3.8b 45 2-89
IDC IV 11 17 35 08.2–.77 37.02N 144.07E 0 4.0,3.8L ¶16577789
ISCJB IV 11 17 35 11.9–.51 37.14N–.05 143.81E–.06 35 3.8b,3.8L
JMA IV 11 17 35 11.3–.40 37.21N 143.90E 50 4.1,3.8L
NEIC IV 11 17 35 14.8–2.1 37.02N 143.93E 46–18 4.5b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=15.5km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.8km az=38.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=14.1km az=133.0.
ISC IV 11 17 53 32.7–.49 37.69N–.03 144.54E–.03 17–2 5.6b,5.0s 1844 3-163
NIED IV 11 17 53 00 37.70N 144.40E 8 5.4W,5.0s ¶16417154
ISCJB IV 11 17 53 29.5–.50 37.67N–.02 144.51E–.01 6–3 5.5b,5.0s
IDC IV 11 17 53 29.9–.27 37.62N 144.58E 0 5.2,5.2
BJI IV 11 17 53 31.4 37.81N 144.22E 7 5.4b,5.4s
GCMT IV 11 17 53 31.7–.10 37.70N 144.50E 15–0 5.5W,5.4s
NEIC IV 11 17 53 32.0–.08 37.64N 144.47E 12 5.7b,5.4W

JMA IV 11 17 53 33.3–.20 37.67N 144.41E 47 5.4,5.4W
MOS IV 11 17 53 33.8–.93 38.00N 144.47E 23 5.7b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S236.00000°,δ42.00000°,λ-82.00000°. NP2:ϕ_S45.00000°,δ49.00000°,λ-97.00000°. $M_0$1.27000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=165.4.
IDC Error ellipse: s-maj=10.1km s-min=7.3km az=85.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c214; s127,c308;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.03±.03 $M_{\theta\theta}$1.37±.02; $M_{\phi\phi}$0.66±.02; $M_{r\theta}$0.11±.03; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.47±.04; Best double couple: NP1:ϕ_S228.00000° ,δ51.00000°,λ-101.00000°. NP2:ϕ_S65.00000°,δ41.00000°,λ-77.00000°. Principal axes: T 1.9320,Plg5.0000°,Azm326.0000°; N 0.1770,Plg8.0000°,Azm235.0000° ; P -2.1080,Plg80.0000°,Azm88.0000° $M_0$2.02000×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.9km s-min=2.0km az=148.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s57 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.47 $M_{\theta\theta}$0.93 $M_{\phi\phi}$0.53 $M_{r\theta}$-0.11 $M_{\theta\phi}$1.06 $M_{\phi r}$-0.18 Best double couple: NP1:ϕ_S47.00000°,δ49.00000°,λ-95.00000°. NP2: ϕ_S234.00000°,δ42.00000°,λ-85.00000°. Principal axes: T 1.8300,Plg3.0000°,Azm140.0000° ; N -0.3500,Plg3.0000°,Azm50.0000°; P -1.4800,Plg85.0000°,Azm275.0000° $M_0$1.70000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.6km s-min=3.3km az=106.9.
ISC IV 11 17 54 05.1–3.3 38.8N–.50 144.3E–.40 19 4.8b 7 5-73
ISCJB IV 11 17 54 02.9–3.2 38.8N–.40 144.3E–.50 19 4.8b **¶17200664**
IDC IV 11 17 54 02.9–4.0 39.00N 144.28E 0 5.0L,4.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=81.9km s-min=19.4km az=139.9.
IDC Error ellipse: s-maj=96.0km s-min=35.5km az=146.0.
ISC IV 11 18 24 05.9–.73 35.52N–.05 142.91E–.07 35 3.8b 43 2-85
NIED IV 11 18 24 00 35.60N 142.90E 5 4.0W **¶16505339**
IDC IV 11 18 24 01.0–.81 35.41N 143.03E 0 4.0,4.0L
ISCJB IV 11 18 24 04.6–.51 35.48N–.04 142.92E–.05 35 3.8b,4.0L
JMA IV 11 18 24 04.2–.30 35.55N 142.95E 56 3.9,4.0L
NEIC IV 11 18 24 05.5–.52 35.20N 143.05E 35 4.6b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S202.00000°,δ45.00000°,λ-90.00000°. NP2:ϕ_S22.00000°,δ45.00000°,λ-90.00000°. $M_0$1.31000×10^{15}
IDC Error ellipse: s-maj=21.3km s-min=16.1km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=143.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=8.7km az=93.0.
IDC IV 11 18 40 05.6–10 37.83N 143.38E 0 3.6,3.5b
¶17200666
IDC Error ellipse: s-maj=209.1km s-min=53.6km az=16.0.
JMA IV 11 19 00 09.4–.30 38.45N 144.58E 33 3.9
¶600584070
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC IV 11 19 40 14.5–.99 35.31N–.09 142.8E–.10 59 3.5b 11 3-65
IDC IV 11 19 40 07.2–.93 35.37N 143.07E 0 3.6,3.4 **¶17200672**
ISCJB IV 11 19 40 12.5–.78 35.34N–.08 142.75E–.08 59 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 20 28 56.6–1.0 37.9N–.10 143.9E–.10 35 3.6b 9 5-69
IDC IV 11 20 28 51.4–.89 37.88N 143.98E 0 3.8,3.6 **¶17200678**
ISCJB IV 11 20 28 54.1–.80 37.9N–.10 143.9E–.20 33 3.6b,2.8s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 20 31 06.4–.95 38.0N–.20 144.1E–.10 35 3.6b 12 11-75
IDC IV 11 20 31 01.0–.85 37.94N 144.13E 0 3.9,3.7 **¶17200679**
ISCJB IV 11 20 31 04.0–.78 37.9N–.10 144.1E–.20 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 22 17 53.1–2.8 37.6N–.20 142.0E–.20 24 3.3b 7 1-58
IDC IV 11 22 17 43.2–1.4 37.49N 143.07E 0 3.5,3.4b **¶600584217**
JMA IV 11 22 17 53.2–.40 37.58N 141.99E 23 3.1,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=32.9km s-min=29.5km az=127.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA IV 11 23 06 22.0–.30 37.60N 143.50E 27 3.5
¶600584310
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 11 23 22 26.0–.98 39.91N–.07 144.28E–.08 34 3.8b 33 2-87
IDC IV 11 23 22 20.7–2.5 39.83N 144.29E 0 4.1,3.9 **¶17200702**
JMA IV 11 23 22 23.8–.20 39.92N 144.27E 39 3.9,3.9
ISCJB IV 11 23 22 24.8–.67 39.93N–.05 144.25E–.05 34 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
JMA IV 12 01 08 46.9–.30 37.78N 142.34E 3–4 3.5
¶16427674
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 12 01 08 54.1–.93 39.96N–.05 143.74E–.05 16–5 4.6b,4.5s 309 1-87
ISCJB IV 12 01 08 50.8–1.1 39.98N–.03 143.73E–.03 3–7 4.6b,4.5s **¶600584444**
IDC IV 12 01 08 52.0–.54 39.93N 143.68E 0 4.5,4.3
JMA IV 12 01 08 52.1–.20 40.00N 143.71E 10 4.6,4.3
MOS IV 12 01 08 53.7–1.2 39.98N 143.72E 23 4.8b,4.1s
BJI IV 12 01 08 54.3 39.96N 143.54E 24 5.2b,4.7b
NEIC IV 12 01 08 57.1–.65 39.96N 143.66E 36–5 4.7b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.5km az=154.2.
IDC Error ellipse: s-maj=14.6km s-min=12.1km az=131.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=107.3.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.5km az=135.0.
ISC IV 12 03 42 51.1–.59 39.45N–.06 143.47E–.06 35 3.8b 66 1-87
NIED IV 12 03 42 00 39.40N 143.60E 26 4.0W **¶16505346**
JMA IV 12 03 42 47.6–.20 39.44N 143.60E 41 4.2
ISCJB IV 12 03 42 49.8–.50 39.50N–.04 143.44E–.05 35 3.8b
IDC IV 12 03 42 50.2–.78 39.30N 143.45E 29–2 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S226.00000°,δ53.00000°,λ157.00000°. NP2:ϕ_S331.00000°,δ71.00000°,λ39.00000°. $M_0$1.32000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=38.5.
IDC Error ellipse: s-maj=20.5km s-min=12.5km az=171.0.
ISC IV 12 04 37 56.6–1.2 39.43N–.09 143.53E–.09 11 3.3b 18 1-61
IDC IV 12 04 37 46.7–1.1 37.94N 144.00E 0 3.6,3.4 **¶17200727**
ISCJB IV 12 04 37 55.0–.90 39.44N–.07 143.62E–.07 11 3.3b,3.4
JMA IV 12 04 37 56.5–.20 39.43N 143.65E 35 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=33.5km s-min=22.9km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.5km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 12 05 51 24.5–.94 37.5N–.20 144.33E–.09 35 3.7b 14 5-76
IDC IV 12 05 51 19.4–.83 37.46N 144.42E 0 3.9,3.7 **¶17200736**
ISCJB IV 12 05 51 22.3–.70 37.5N–.10 144.31E–.08 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 06 15 19.0–.95 39.5N–.10 143.2E–.10 18 3.6b 13 5-88
IDC IV 12 06 15 16.2–1.0 39.51N 143.14E 0 3.8,3.6 **¶17200739**
ISCJB IV 12 06 15 17.1–.82 39.5N–.10 143.2E–.10 18 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 07 34 08.4–1.1 37.09N–.09 142.36E–.09 9 3.6b 18 1-69
ISCJB IV 12 07 34 06.0–.81 37.05N–.07 142.46E–.08 9 3.6b **¶17200756**
JMA IV 12 07 34 05.4–.40 37.10N 142.38E 0–4 4.0
IDC IV 12 07 34 06.6–1.1 36.99N 142.39E 0 3.7,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.1km az=22.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=31.1km s-min=20.0km az=70.0.

ISC IV 12 08 05 06.3–3.7 39.64N–.08 143.7E–.10 23–24 3.6b 26 1-67
JMA IV 12 08 05 01.2–.30 39.67N 143.82E 7–4 3.9 **¶17200761**
IDC IV 12 08 05 01.8–3.9 39.58N 143.90E 0 3.7,3.7b
ISCJB IV 12 08 05 04.0–2.1 39.65N–.06 143.72E–.09 19–17 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 10 22 34.2–3.0 37.81N–.08 143.4E–.10 11–15 21 2-62
JMA IV 12 10 22 37.0–.20 38.04N 143.76E 31 3.6 **¶17200766**
IDC IV 12 10 22 38.3–7.7 37.09N 143.05E 0 3.6,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=161.3km s-min=49.1km az=26.0.
ISC IV 12 12 11 03.0–3.7 38.06N–.05 143.05E–.07 9–23 3.6b 33 1-85
NIED IV 12 12 11 00 38.20N 142.80E 5 3.6W **¶17200772**
IDC IV 12 12 11 01.6–.80 38.02N 143.17E 0 4.0s,4.0
JMA IV 12 12 11 04.0–.20 38.20N 142.84E 0 4.0,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S237.00000°,δ64.00000°,λ-153.00000°. NP2:ϕ_S135.00000°,δ66.00000°,λ-29.00000°. $M_0$3.00000×10^{14}
IDC Error ellipse: s-maj=19.8km s-min=16.7km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 12 12 19 11.5–1.5 38.05N–.08 144.46E–.09 35 3.6b 28 2-58
IDC IV 12 12 19 06.1–2.7 37.86N 144.67E 0 3.6,3.5 **¶17200773**
ISCJB IV 12 12 19 11.8–1.1 38.17N–.05 144.35E–.08 33 3.5b,3.5
JMA IV 12 12 19 11.4–.20 38.08N 144.29E 32 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.5km s-min=29.1km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.2km az=27.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 12 12 43 33.0–1.1 36.94N–.10 143.8E–.10 35 3.6b 15 2-89
NIED IV 12 12 43 00 37.00N 143.80E 8 3.6W **¶17200775**
IDC IV 12 12 43 27.9–1.1 36.55N 144.22E 0 3.9,3.9L
ISCJB IV 12 12 43 32.6–.95 37.01N–.09 143.8E–.10 33 4.5s,3.6b
JMA IV 12 12 43 32.8–.40 37.03N 143.77E 43 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S23.00000°,δ21.00000°,λ-101.00000°. NP2:ϕ_S214.00000°,δ70.00000°,λ-86.00000°. $M_0$2.57000×10^{14}
IDC Error ellipse: s-maj=30.8km s-min=25.1km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=8.4km az=42.2.
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC IV 12 13 18 13.8–.94 38.04N–.08 144.77E–.07 26 3.5b 32 3-87
IDC IV 12 13 18 09.3–1.1 37.80N 144.98E 0 3.8,3.5 **¶17200779**
ISCJB IV 12 13 18 14.1–.80 38.21N–.05 144.70E–.05 26 3.4b,3.2s
JMA IV 12 13 18 14.7–.20 38.07N 144.60E 33 4.2,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=25.0km az=165.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=5.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 12 13 29 50.4–1.3 39.41N–.08 143.72E–.09 11 3.6b 20 1-72
ISCJB IV 12 13 29 48.2–.93 39.38N–.06 143.84E–.08 11 3.5b **¶17200780**
JMA IV 12 13 29 48.5–.20 39.38N 143.81E 12–4 3.9
IDC IV 12 13 29 52.8–.88 38.89N 142.63E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.1km az=142.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.3km s-min=20.4km az=97.0.
ISC IV 12 15 41 38.1–3.1 37.07N–.05 142.48E–.08 14–18 3.9b 39 1-77
NIED IV 12 15 41 00 37.20N 142.50E 8 3.9W **¶16525110**
IDC IV 12 15 41 35.9–.68 37.03N 142.59E 0 4.0,3.9
JMA IV 12 15 41 35.2–.30 37.15N 142.51E 0 4.1,3.9
ISCJB IV 12 15 41 37.2–2.0 37.06N–.04 142.54E–.07 22–14 4.0b,3.5s
NEIC IV 12 15 41 41.9–1.3 37.02N 142.49E 42–11 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S337.00000°,δ46.00000°,λ-130.00000°. NP2:ϕ_S207.00000°,δ57.00000°,λ-56.00000°. $M_0$7.38000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=14.6km az=100.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=149.1.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.6km az=82.0.
ISC IV 12 15 45 48.0–.95 36.80N–.05 143.18E–.08 25 3.5b 33 2-61
NIED IV 12 15 45 00 36.90N 143.10E 5 3.5W **¶17200786**
IDC IV 12 15 45 44.2–1.0 36.69N 143.28E 0 3.7,3.6
ISCJB IV 12 15 45 46.5–.68 36.83N–.04 143.16E–.06 25 3.5b,3.6
JMA IV 12 15 45 47.7–.20 36.86N 143.14E 46 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S40.00000°,δ16.00000°,λ-99.00000°. NP2:ϕ_S229.00000°,δ74.00000°,λ-88.00000°. $M_0$2.33000×10^{14}
IDC Error ellipse: s-maj=25.9km s-min=18.1km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.3km az=20.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 12 17 43 55.4–.85 36.85N–.04 143.30E–.07 35 3.5b 38 2-63
NIED IV 12 17 43 00 36.90N 143.30E 5 3.6W **¶17200793**
IDC IV 12 17 43 50.8–.96 36.73N 143.52E 0 3.7,3.7L
ISCJB IV 12 17 43 53.8–.60 36.85N–.03 143.26E–.05 33 3.5b,3.7L
JMA IV 12 17 43 54.4–.30 36.86N 143.26E 58 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S237.00000°,δ47.00000°,λ-67.00000°. NP2:ϕ_S26.00000°,δ48.00000°,λ-112.00000°. $M_0$2.53000×10^{14}
IDC Error ellipse: s-maj=24.6km s-min=18.8km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.5km az=23.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 12 18 02 28.3–.63 37.46N–.06 143.03E–.08 24 4.1b 67 2-86
IDC IV 12 18 02 24.8–.91 37.53N 143.15E 0 4.0,3.9 **¶16587484**
ISCJB IV 12 18 02 26.6–.42 37.49N–.05 143.04E–.06 24 4.2b,3.9
NEIC IV 12 18 02 28.5–1.9 37.49N 143.11E 25–13 4.5b,3.9
JMA IV 12 18 02 29.0–.30 37.50N 142.62E 8 4.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=17.0km az=98.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.0km az=139.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.6km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA IV 12 18 52 02.2–.50 37.48N 142.59E 0 3.7
¶600585801
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC IV 12 20 33 42.7–1.1 37.57N–.09 144.13E–.08 35 3.6b 28 2-73
IDC IV 12 20 33 36.2–1.1 37.32N 144.29E 0 3.8,3.6 **¶17200803**
ISCJB IV 12 20 33 39.9–.67 37.48N–.05 144.13E–.05 33 3.6b,3.6
JMA IV 12 20 33 41.0–.10 37.64N 144.07E 26 4.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=20.1km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.8km az=18.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 12 21 33 08.9–.98 37.5N–.10 144.22E–.10 35 3.6b 12 5-73
IDC IV 12 21 33 03.9–.97 37.69N 144.21E 0 3.9,3.7 **¶17200813**
ISCJB IV 12 21 33 06.8–.80 37.6N–.10 144.18E–.09 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 22 11 40.1–.56 37.93N–.05 142.09E–.06 30 4.0b 50 1-146
NIED IV 12 22 11 00 37.90N 142.10E 38 4.1W **¶16587477**
ISCJB IV 12 22 11 38.1–.41 37.91N–.04 142.23E–.05 30 4.0b,3.5s
JMA IV 12 22 11 39.4–.20 37.93N 142.12E 26–3 3.9,3.5s
NEIC IV 12 22 11 41.3–.86 37.94N 142.16E 39–7 4.2b,3.5s
IDC IV 12 22 11 41.3–2.7 37.90N 142.18E 39–23 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S343.00000°,δ34.00000°,λ-34.00000°. NP2:ϕ_S101.00000°,δ72.00000°,λ-119.00000°. $M_0$1.34000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=146.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.2km az=123.0.
IDC Error ellipse: s-maj=15.8km s-min=13.6km az=101.0.
ISC IV 12 22 54 15.4–.60 37.75N–.04 142.07E–.06 34–1 4.0b 68 1-146

NIED IV 12 22 54 00 37.70N 142.10E 29 4.0W **¶16505351**
ISCJB IV 12 22 54 13.7–.90 37.72N–.04 142.15E–.07 36–7 4.0b,3.0s
JMA IV 12 22 54 14.3–.20 37.74N 142.05E 34–4 4.1,3.0s
IDC IV 12 22 54 15.3–.58 37.70N 142.13E 34–3 4.1L,4.0
NEIC IV 12 22 54 15.4–.38 37.75N 142.16E 35 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ27.00000°,λ-130.00000°. NP2:ϕ_s190.00000°,δ70.00000°,λ-72.00000°. $M_0$9.86000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.7km az=15.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=11.3km az=107.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.5km az=141.0.
JMA IV 12 22 59 06.5–.20 38.53N 144.01E 26 3.8
NIED IV 12 22 59 00 38.50N 144.00E 23 3.6W **¶600586028**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ61.00000°,λ7.00000°. NP2:ϕ_s320.00000°,δ84.00000°,λ150.00000°. $M_0$2.39000×10^{14}
ISC IV 12 23 49 11.5–1.7 39.0N–.20 144.8E–.20 19 3.5b 8 6-68
IDC IV 12 23 49 08.9–2.7 39.07N 144.79E 0 3.7,3.6 **¶17200828**
ISCJB IV 12 23 49 09.7–1.3 39.1N–.20 144.7E–.20 19 3.6b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 23 49 21.5–1.8 39.1N–.20 144.7E–.20 19 3.8b 6 6-68
IDC IV 12 23 49 18.8–2.8 39.11N 144.69E 0 3.7,3.6 **¶17200831**
ISCJB IV 12 23 49 19.7–1.7 39.1N–.20 144.6E–.20 19 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 13 00 13 00.6–.54 37.44N–.05 142.22E–.05 20–3 4.4b 141 1-146
NIED IV 13 00 12 00 37.40N 142.20E 14 4.2W **¶16436795**
ISCJB IV 13 00 12 58.0–.99 37.40N–.04 142.29E–.04 17–6 4.3b,3.9s
BJI IV 13 00 12 58.1 37.20N 142.32E 27 5.2b,4.8s
MOS IV 13 00 12 59.3–1.2 37.44N 142.34E 27 4.6b,4.8s
JMA IV 13 00 12 59.0–.20 37.39N 142.22E 19 4.4,4.8s
IDC IV 13 00 13 01.4–.56 37.32N 142.26E 27–3 4.2,4.2
NEIC IV 13 00 13 02.6–.85 37.36N 142.24E 37–7 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ15.00000°,λ49.00000°. NP2:ϕ_s42.00000°,δ79.00000°,λ100.00000°. $M_0$2.08000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.6km az=140.6.
MOS Error ellipse: s-maj=8.3km s-min=5.4km az=112.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=11.6km az=112.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.6km az=126.0.
ISC IV 13 03 44 40.8–.79 37.90N–.05 142.61E–.08 14 3.5b 21 1-89
ISCJB IV 13 03 44 39.3–.59 37.87N–.05 142.77E–.07 14 3.5b **¶17200850**
JMA IV 13 03 44 39.9–.30 37.89N 142.69E 12 4.1
IDC IV 13 03 44 44.5–3.9 37.81N 142.89E 40–35 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.7km az=139.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=27.1km s-min=19.3km az=87.0.
ISC IV 13 03 49 33.2–.74 36.91N–.08 143.46E–.07 35 3.8b 32 2-89
NIED IV 13 03 49 00 36.90N 143.40E 5 3.8W **¶17200851**
IDC IV 13 03 49 27.4–.77 36.77N 143.61E 0 3.9,3.8
ISCJB IV 13 03 49 31.3–.56 36.91N–.06 143.47E–.05 33 3.7b,3.8
JMA IV 13 03 49 31.4–.30 36.94N 143.44E 36 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ27.00000°,λ-89.00000°. NP2:ϕ_s208.00000°,δ63.00000°,λ-91.00000°. $M_0$5.97000×10^{14}
IDC Error ellipse: s-maj=21.4km s-min=18.0km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.3km az=10.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 13 04 46 49.8–1.4 37.91N–.08 143.31E–.08 19 3.6b 16 2-58
IDC IV 13 04 46 47.8–1.4 37.66N 144.14E 0 3.7,3.5 **¶17200857**
ISCJB IV 13 04 46 49.9–1.3 37.97N–.08 143.46E–.08 19 3.5b,3.5
JMA IV 13 04 46 49.9–.30 37.99N 143.26E 0 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.3km s-min=28.7km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=9.5km az=165.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC IV 13 05 00 22.2–3.0 35.81N 143.41E 0 3.5,3.4b
¶17200858
IDC Error ellipse: s-maj=92.8km s-min=24.8km az=61.0.
ISC IV 13 05 41 01.8–.52 37.10N–.04 142.40E–.04 9–2 4.7b,3.9s 322 1-146
NIED IV 13 05 40 00 37.10N 142.50E 11 4.5W,3.9s **¶16427696**
JMA IV 13 05 40 58.4–.20 37.07N 142.46E 0 4.7,3.9s
ISCJB IV 13 05 40 60.0–1.1 37.08N–.02 142.40E–.02 5–6 4.6b,3.9s
IDC IV 13 05 41 00.3–.44 37.03N 142.45E 0 4.6,4.6
BJI IV 13 05 41 03.3 37.08N 142.45E 36 4.9b,4.7b
NEIC IV 13 05 41 05.9–.13 37.04N 142.35E 35 4.7b,4.7b
MOS IV 13 05 41 05.2–.99 37.48N 142.27E 29 4.8b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ44.00000°,λ-134.00000°. NP2:ϕ_s221.00000°,δ60.00000°,λ-56.00000°. $M_0$5.84000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.1km az=166.5.
IDC Error ellipse: s-maj=12.3km s-min=10.7km az=96.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=156.0.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=98.2.
ISC IV 13 06 30 56.2–.72 37.92N–.07 143.39E–.07 19 3.8b 32 2-145
IDC IV 13 06 30 52.6–.73 37.73N 143.61E 0 3.9,3.8 **¶17200868**
ISCJB IV 13 06 30 54.4–.57 37.88N–.06 143.38E–.05 19 3.7b,3.4s
JMA IV 13 06 30 55.3–.40 37.96N 143.28E 18 4.0,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=17.1km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.7km az=175.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 13 06 51 56.7–.68 39.73N–.06 143.21E–.05 18 3.8b,3.1s 38 1-87
ISCJB IV 13 06 51 54.9–.49 39.69N–.05 143.37E–.05 18 3.6b,3.0s **¶16505357**
JMA IV 13 06 51 54.9–.30 39.75N 143.31E 13–3 4.0,3.0s
IDC IV 13 06 52 00.2–2.3 39.70N 143.25E 47–22 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.7km az=161.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=15.0km az=119.0.
IDC IV 13 08 38 18.2–1.8 34.84N 141.82E 0 3.7,3.6
¶17200880
IDC Error ellipse: s-maj=46.3km s-min=27.2km az=82.0.
ISC IV 13 09 06 04.5–.59 39.97N–.06 143.10E–.05 12 4.2b,4.1s 69 1-87
NIED IV 13 09 06 00 40.00N 143.20E 20 4.6W,4.1s **¶16427698**
IDC IV 13 09 06 02.6–.60 39.83N 143.08E 0 4.0,3.9
ISCJB IV 13 09 06 03.1–.48 39.92N–.05 143.30E–.06 12 4.0b,4.0s
MOS IV 13 09 06 04.5–1.2 39.84N 143.34E 30 4.3b,4.0s
JMA IV 13 09 06 04.7–.40 39.99N 143.16E 8–4 4.3,4.0s
NEIC IV 13 09 06 08.0–.41 39.89N 143.09E 35 4.5b,4.0s
BJI IV 13 09 06 16.8 40.66N 142.11E 59 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ13.00000°,λ86.00000°. NP2:ϕ_s23.00000°,δ77.00000°,λ91.00000°. $M_0$7.58000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=14.6km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=138.9.
MOS Error ellipse: s-maj=11.9km s-min=7.3km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.5km az=110.0.
ISC IV 13 09 24 44.3–1.7 35.9N–.10 142.5E–.20 18 3.5b 8 3-90
IDC IV 13 09 24 44.7–.96 36.46N 142.31E 0 3.7,3.6 **¶17200882**
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=20.6km az=75.0.
ISC IV 13 12 05 34.9–.44 38.03N–.04 143.05E–.05 18 4.4b,3.5s 135 1-145
NIED IV 13 12 05 00 38.10N 143.00E 8 4.2W,3.5s **¶16427701**
IDC IV 13 12 05 32.0–.48 38.07N 143.15E 0 4.3,4.2
ISCJB IV 13 12 05 33.0–.29 38.05N–.03 143.10E–.04 18 4.3b,3.6s
JMA IV 13 12 05 33.5–.20 38.14N 143.03E 10 4.4,3.6s
MOS IV 13 12 05 33.9–1.1 38.14N 143.14E 24 4.5b,3.6s
BJI IV 13 12 05 35.3 38.19N 143.09E 34 4.8b,4.5b
NEIC IV 13 12 05 36.8–1.5 38.06N 143.10E 31–10 4.6b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ42.00000°,λ-73.00000°. NP2:ϕ_s355.00000°,δ50.00000°,λ-105.00000°. $M_0$2.40000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=23.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.7km s-min=5.8km az=96.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=112.0.
ISC IV 13 12 41 45.9–4.0 36.37N–.06 142.13E–.09 5–25 3.5b 19 1-90
JMA IV 13 12 41 46.9–.20 36.37N 142.24E 69 3.0 **¶600586615**
IDC IV 13 12 41 58.8–4.2 35.75N 141.14E 80–38 3.6s,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=36.4km s-min=22.0km az=86.0.
ISC IV 13 12 47 06.7–.86 39.40N–.06 143.65E–.08 11 3.7b 32 1-68
ISCJB IV 13 12 47 04.6–.60 39.39N–.04 143.75E–.06 11 3.6s,3.6b **¶17200894**
IDC IV 13 12 47 04.4–.87 39.31N 143.79E 0 3.7,3.7
JMA IV 13 12 47 06.6–.20 39.45N 143.69E 25 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.8km az=28.9.
IDC Error ellipse: s-maj=22.2km s-min=15.5km az=107.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 13 12 54 35.7–1.7 36.1N–.10 143.1E–.20 35 3.8b 8 4-60
IDC IV 13 12 54 29.7–2.2 36.20N 143.39E 0 4.4,4.4s **¶16706750**
ISCJB IV 13 12 54 33.2–1.3 36.10N–.09 143.2E–.20 33 4.4s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 13 12 55 02.7–3.4 37.05N–.05 142.47E–.06 5–21 3.7b 42 1-89
NIED IV 13 12 55 00 37.10N 142.50E 14 3.7W **¶17200896**
IDC IV 13 12 55 02.3–.74 36.99N 142.51E 0 3.9,3.8L
ISCJB IV 13 12 55 03.8–1.7 37.04N–.04 142.57E–.05 23–13 3.7b,3.8L
JMA IV 13 12 55 03.6–.40 37.07N 142.53E 17 4.1,3.8L
NEIC IV 13 12 55 06.2–3.1 37.05N 142.51E 26–22 4.1b,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s310.00000°,δ38.00000°,λ-79.00000°. NP2:ϕ_s115.00000°,δ53.00000°,λ-99.00000°. $M_0$4.24000×10^{14}
IDC Error ellipse: s-maj=20.4km s-min=17.3km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.8km az=39.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.7km az=115.0.
ISC IV 13 13 24 35.4–2.1 37.58N–.05 142.11E–.07 1–12 3.8b 47 1-89
ISCJB IV 13 13 24 35.5–1.7 37.56N–.03 142.17E–.04 14–10 3.7b **¶17200900**
IDC IV 13 13 24 35.3–.69 37.56N 142.09E 0 3.8,3.7
JMA IV 13 13 24 37.0–.20 37.59N 142.09E 20–3 4.0,3.7
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.1km s-min=5.2km az=139.5.
IDC Error ellipse: s-maj=18.1km s-min=14.0km az=105.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 13 13 59 36.9–1.8 39.56N–.09 143.2E–.10 18 3.3b 16 1-63
JMA IV 13 13 59 34.0–.30 39.50N 143.46E 19 3.3 **¶16706756**
IDC IV 13 13 59 41.9–1.1 39.94N 142.03E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=19.3km az=85.0.
ISC IV 13 14 00 07.6–.68 39.54N–.06 143.36E–.07 11 4.0b,3.1s 54 1-75
ISCJB IV 13 14 00 05.2–.44 39.49N–.04 143.48E–.05 11 3.9b,3.1s **¶17200902**
IDC IV 13 14 00 05.9–.69 39.51N 143.22E 0 3.9,3.8
JMA IV 13 14 00 06.5–.20 39.41N 143.45E 17–4 4.3,3.8
NEIC IV 13 14 00 07.5–.41 39.55N 143.21E 10 4.1b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.4km az=142.0.
IDC Error ellipse: s-maj=17.6km s-min=13.9km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=5.9km az=115.0.
JMA IV 13 14 25 35.8–.20 37.77N 142.03E 34–4 3.9
NIED IV 13 14 25 00 37.80N 142.00E 47 3.6W **¶600586689**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ46.00000°,λ-121.00000°. NP2:ϕ_s173.00000°,δ52.00000°,λ-62.00000°. $M_0$2.60000×10^{14}
JMA IV 13 14 37 22.7–.20 40.19N 143.37E 8–3 3.5
NIED IV 13 14 37 00 40.20N 143.40E 23 3.5W **¶600586703**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ25.00000°,λ52.00000°. NP2:ϕ_s34.00000°,δ71.00000°,λ106.00000°. $M_0$2.34000×10^{14}
IDC IV 13 15 52 32.2–5.7 34.10N 141.60E 0 4.0,3.7
¶17200912
IDC Error ellipse: s-maj=217.3km s-min=24.3km az=66.0.
ISC IV 13 16 16 52.2–.83 37.63N–.05 142.86E–.08 24 3.6b 36 1-69
IDC IV 13 16 16 48.5–.90 37.59N 143.06E 0 3.7,3.5 **¶17200914**
ISCJB IV 13 16 16 50.3–.59 37.61N–.04 142.88E–.05 24 3.5b,3.5
JMA IV 13 16 16 51.6–.20 37.66N 142.86E 44 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=16.8km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=42.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 13 17 03 18.7–.20 39.30N 143.73E 19 3.5
¶600586813
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 13 17 34 07.0–.86 37.97N–.06 144.02E–.07 35 3.7b 43 2-62
NIED IV 13 17 34 00 37.90N 143.90E 11 3.9W **¶16587489**
IDC IV 13 17 34 01.4–.87 37.73N 144.30E 0 4.1L,3.8
ISCJB IV 13 17 34 03.6–.60 37.88N–.04 144.02E–.05 33 3.8b,3.8
JMA IV 13 17 34 04.8–.30 37.92N 143.93E 46 4.1,3.8
NEIC IV 13 17 34 06.5–.89 37.95N 144.10E 35 4.8b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ67.00000°,λ-9.00000°. NP2:ϕ_s144.00000°,δ82.00000°,λ-157.00000°. $M_0$9.43000×10^{14}
IDC Error ellipse: s-maj=22.3km s-min=16.7km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.4km az=43.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.8km az=119.0.
ISC IV 13 19 46 53.4–1.1 39.41N–.07 143.84E–.08 11 3.6b 25 2-60
JMA IV 13 19 46 48.2–.30 39.41N 144.07E 0 4.1 **¶17200934**
ISCJB IV 13 19 46 50.4–.83 39.29N–.07 144.05E–.08 11 3.6b
IDC IV 13 19 46 51.6–1.3 39.37N 143.95E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.4km az=177.7.
IDC Error ellipse: s-maj=29.7km s-min=23.6km az=92.0.
ISC IV 13 19 57 23.8–.44 39.59N–.03 143.56E–.02 16–2 6.2s,5.8b 2086 1-165
NIED IV 13 19 57 00 39.70N 143.80E 17 6.1W,5.8b **¶16426887**
JMA IV 13 19 57 18.5–.20 39.65N 143.81E 0 6.3,5.8b
ISCJB IV 13 19 57 21.0–.49 39.58N–.02 143.45E–.01 5–3 6.2s,5.8b
BJI IV 13 19 57 21.6 39.65N 143.50E 20 6.5,6.5s
IDC IV 13 19 57 21.3–.35 39.54N 143.46E 0 6.0s,6.0
NEIC IV 13 19 57 23.0–.00 39.39N 143.76E 15 6.0s,6.0
GCMT IV 13 19 57 25.4–.10 39.63N 143.59E 15–0 6.0W,6.0
MOS IV 13 19 57 25.9–.90 39.71N 143.36E 33 6.3s,6.0b
NEIC IV 13 19 57 25.4–.09 39.58N 143.34E 22 6.1W,6.0W
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ32.00000°,λ85.00000°. NP2:ϕ_s22.00000°,δ58.00000°,λ93.00000°. $M_0$1.39000×10^{18}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=157.5.
IDC Error ellipse: s-maj=10.5km s-min=9.3km az=128.0.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-0.53 $M_{r\theta}$0.46 $M_{\theta\phi}$-0.08 $M_{\phi r}$1.10 Best double couple: NP1:ϕ_s21.00000°

,δ77.00000°,λ94.00000°. NP2:ϕ_s184.00000°,δ13.00000°,λ74.00000°. Principal axes: T 1.3800,Plg57.0000°,Azm296.0000°; N -0.1000,Plg3.0000°,Azm200.0000° ; P -1.2800,Plg31.0000°,Azm107.0000° $M_0$1.30000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s126,c274; s138,c466;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}0.81±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$-0.85±.01; $M_{r\theta}$0.42±.01; $M_{\theta\phi}$-0.18±.00; $M_{\phi r}$1.12±.02; Best double couple: NP1:ϕ_s19.00000°,δ72.00000°,λ95.00000°. NP2:ϕ_s182.00000° ,δ18.00000°,λ74.00000°. Principal axes: T 1.4370,Plg62.0000°,Azm297.0000° ; N 0.0590,Plg5.0000°,Azm197.0000°; P -1.4960,Plg27.0000°,Azm105.0000° $M_0$1.46600×10^{18}

MOS Error ellipse: s-maj=5.6km s-min=3.4km az=103.2.

NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=141.0. Felt at Misawa, Soma and Yokohama. Also felt at Obihiro, Hokkaido. Recorded [3 JMA] in Akita, Iwate, Miyagi and Yamagata, Honshu. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s12 Moment tensor: Scale 10^{18} Nm; M_{rr}0.73 $M_{\theta\theta}$0.03 $M_{\phi\phi}$-0.77 $M_{r\theta}$0.67 $M_{\theta\phi}$-0.18 $M_{\phi r}$1.32 Best double couple: NP1: ϕ_s178.00000°,δ15.00000°,λ63.00000°. NP2:ϕ_s25.00000°,δ77.00000°,λ97.00000°. Principal axes: T 1.6600,Plg58.0000°,Azm304.0000°; N 0.0200,Plg7.0000°,Azm204.0000° ; P -1.6800,Plg31.0000°,Azm110.0000° $M_0$1.70000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm280.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm100.0000°

JMA IV 13 20 01 00.5–.20 39.64N 143.68E 23 4.5
¶600586944

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**IV**	**13 20 02 30.3–2.3**	**39.54N–.04**	**143.49E–.04**	**15–14**	**4.9b**	**108**	**1-131**
IDC	IV	13 20 02 28.8–.58	39.57N	143.37E	0	4.8,4.7		**¶16426888**
JMA	IV	13 20 02 29.9–.20	39.57N	143.48E	15	5.3,4.7		
ISCJB	IV	13 20 02 29.7–1.1	39.52N–.03	143.51E–.04	19–7	4.8b,4.7		
BJI	IV	13 20 02 30.0	39.90N	143.10E	5	5.8s,5.6b		
NEIC	IV	13 20 02 31.0–3.2	39.57N	143.41E	15–20	5.0b,5.6b		
MOS	IV	13 20 02 30.9–.98	39.56N	143.47E	26	5.0b,5.6b		

ISC Event type se.

IDC Error ellipse: s-maj=15.4km s-min=12.3km az=122.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.7km az=139.6.

NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.2km az=115.0.

MOS Error ellipse: s-maj=9.8km s-min=6.8km az=85.7.

ISC	**IV**	**13 20 03 49.8–.56**	**39.41N–.05**	**143.46E–.05**	**11**	**4.6b**	**57**	**1-82**
ISCJB	IV	13 20 03 48.0–.41	39.45N–.04	143.61E–.04	11	4.6b		**¶16505361**
IDC	IV	13 20 03 49.2–.71	39.59N	143.31E	0	4.7,4.6		
NEIC	IV	13 20 03 49.7–4.1	39.50N	143.37E	7–26	5.0b,4.6		
JMA	IV	13 20 03 50.6–.20	39.56N	143.49E	14–4	4.9,4.6		
MOS	IV	13 20 03 51.0–1.0	39.55N	143.52E	29	4.8b,4.6		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.2km az=163.4.

IDC Error ellipse: s-maj=19.3km s-min=16.4km az=114.0.

NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.9km az=104.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=12.6km s-min=8.3km az=82.4.

ISC	**IV**	**13 20 08 05.7–1.2**	**39.58N–.06**	**143.57E–.09**	**11**	**3.7b**	**24**	**1-67**
IDC	IV	13 20 08 02.3–1.8	39.49N	143.99E	0	3.8,3.8		**¶17200935**
ISCJB	IV	13 20 08 03.7–.77	39.52N–.05	143.69E–.07	11	3.6b,3.8		
JMA	IV	13 20 08 04.9–.20	39.61N	143.62E	15	3.9,3.8		

ISC Event type ke.

IDC Error ellipse: s-maj=45.0km s-min=20.8km az=83.0.

ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.2km az=44.4.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**13 20 08 40.0–1.5**	**39.58N–.07**	**143.61E–.10**	**11**	**3.9b**	**23**	**1-67**
IDC	IV	13 20 08 35.4–2.0	39.45N	144.11E	0	3.9,3.9		**¶17200938**
ISCJB	IV	13 20 08 37.9–.90	39.60N–.05	143.71E–.07	11	3.8b,3.9		
JMA	IV	13 20 08 40.9–.30	39.53N	143.47E	5–4	4.1,3.9		

ISC Event type ke.

IDC Error ellipse: s-maj=47.2km s-min=22.1km az=83.0.

ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.1km az=140.7.

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**IV**	**13 20 15 04.6–2.1**	**39.52N–.07**	**143.58E–.07**	**6–12**	**3.4b**	**25**	**1-60**
IDC	IV	13 20 15 04.4–2.3	39.43N	143.59E	0	3.4,3.3		**¶17200939**
JMA	IV	13 20 15 08.3–.20	39.57N	143.54E	62	3.7,3.3		

ISC Event type ke.

IDC Error ellipse: s-maj=55.4km s-min=26.9km az=79.0.

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**IV**	**13 20 17 45.9–.62**	**39.63N–.06**	**143.54E–.06**	**11**	**4.0b**	**53**	**1-87**
IDC	IV	13 20 17 43.4–.68	39.49N	143.57E	0	4.1,3.9		**¶16587495**
ISCJB	IV	13 20 17 44.1–.44	39.57N–.05	143.57E–.04	11	3.9b,3.9		
JMA	IV	13 20 17 46.2–.20	39.55N	143.52E	28	4.1,3.9		
NEIC	IV	13 20 17 47.4–2.2	39.52N	143.56E	25–16	4.2b,3.9		

ISC Event type se.

IDC Error ellipse: s-maj=19.5km s-min=13.9km az=122.0.

ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.7km az=172.6.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.1km az=114.0.

ISC	**IV**	**13 20 20 01.6–.60**	**39.59N–.05**	**143.50E–.06**	**11**	**4.1b**	**65**	**1-144**
IDC	IV	13 20 19 59.5–.65	39.47N	143.54E	0	4.2,4.0		**¶16505362**
ISCJB	IV	13 20 20 00.0–.43	39.63N–.04	143.59E–.05	11	4.1b,4.0		
JMA	IV	13 20 20 01.0–.20	39.63N	143.61E	23	4.6,4.0		
NEIC	IV	13 20 20 05.0–1.1	39.56N	143.43E	36–9	4.7b,4.0		

ISC Event type se.

IDC Error ellipse: s-maj=17.5km s-min=13.8km az=117.0.

ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=142.5.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.9km az=120.0.

ISC	**IV**	**13 20 30 20.2–2.0**	**37.37N–.05**	**142.14E–.08**	**4–11**	**3.7b**	**23**	**1-61**
IDC	IV	13 20 30 18.5–2.0	37.41N	142.60E	0	3.7,3.6		**¶17200941**
JMA	IV	13 20 30 22.7–.20	37.45N	142.10E	7–2	3.8,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=53.7km s-min=20.5km az=69.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**IV**	**13 20 32 20.9–.51**	**39.70N–.03**	**143.30E–.03**	**18–2**	**5.8b,5.7s**	**1515**	**1-158**
NIED	IV	13 20 32 00	39.60N	143.50E	14	5.5W,5.7s		**¶16426890**
IDC	IV	13 20 32 17.9–.36	39.57N	143.34E	0	5.5,5.5b		
ISCJB	IV	13 20 32 18.0–.69	39.62N–.02	143.28E–.02	7–4	5.7s,5.7b		
JMA	IV	13 20 32 20.0–.20	39.65N	143.47E	33	5.7,5.7b		
BJI	IV	13 20 32 20.5	39.58N	142.98E	20	6.1b,5.7		
MOS	IV	13 20 32 21.6–.88	39.81N	143.20E	25	6.0b,5.7s		
GCMT	IV	13 20 32 21.4–.10	39.64N	143.48E	24	5.5W,5.7s		
NEIC	IV	13 20 32 21.4–.28	39.62N	143.19E	18–1	5.7b,5.7s		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ20.00000°,λ50.00000°. NP2:ϕ_s37.00000°,δ75.00000°,λ103.00000°. $M_0$2.14000×10^{17}

IDC Error ellipse: s-maj=10.4km s-min=9.1km az=128.0.

ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=159.4.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=5.7km s-min=3.4km az=103.7.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s77,c127; s114,c237;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.40±.03 $M_{\theta\theta}$-0.17±.02; $M_{\phi\phi}$-1.23±.02; $M_{r\theta}$0.72±.03; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$1.45±.03; Best double couple: NP1:ϕ_s24.00000° ,δ70.00000°,λ95.00000°. NP2:ϕ_s189.00000°,δ21.00000°,λ76.00000°. Principal axes: T 2.1680,Plg65.0000°,Azm302.0000°; N -0.1130,Plg5.0000°,Azm202.0000° ; P -2.0570,Plg25.0000°,Azm110.0000° $M_0$2.11300×10^{17}

NEIC Event type se. Error ellipse: s-maj=3.4km s-min=2.3km az=146.0.

ISC	**IV**	**13 20 41 03.5–.78**	**39.52N–.06**	**143.66E–.08**	**21–7**	**3.9b**	**51**	**1-87**
JMA	IV	13 20 40 58.7–.30	39.52N	143.76E	4–5	4.5		**¶16587496**
ISCJB	IV	13 20 40 59.2–1.9	39.49N–.04	143.77E–.05	8–12	4.0b		
IDC	IV	13 20 41 00.4–.68	39.52N	143.51E	0	4.1,4.0		
NEIC	IV	13 20 41 06.0–.96	39.55N	143.55E	38–8	4.4b,4.0		

ISC Event type se.

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.3km az=166.1.

IDC Error ellipse: s-maj=18.2km s-min=14.1km az=120.0.

NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.7km az=124.0.

ISC	**IV**	**13 20 55 11.0–3.0**	**39.49N–.06**	**143.51E–.08**	**6–17**	**3.5b**	**35**	**1-67**
IDC	IV	13 20 55 09.3–1.1	39.43N	143.69E	0	3.7,3.6		**¶17200944**
JMA	IV	13 20 55 12.6–.20	39.61N	143.57E	34	3.8,3.6		

ISC Event type ke.

IDC Error ellipse: s-maj=24.2km s-min=18.3km az=111.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**13 20 56 00.3–1.2**	**39.57N–.08**	**143.67E–.08**	**11**	**3.6b**	**20**	**1-75**
IDC	IV	13 20 55 58.6–1.7	39.55N	143.65E	0	3.8,3.8		**¶17200947**
ISCJB	IV	13 20 55 59.3–.85	39.51N–.08	143.65E–.06	11	3.5b,3.8		
JMA	IV	13 20 56 02.2–.20	39.55N	143.54E	23	4.1,3.8		

ISC Event type ke.

IDC Error ellipse: s-maj=42.2km s-min=25.7km az=132.0.

ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.8km az=179.6.

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.

ISC	**IV**	**13 21 05 02.9–.81**	**39.62N–.07**	**143.52E–.07**	**11**	**3.6b**	**31**	**1-75**
ISCJB	IV	13 21 05 00.7–.59	39.58N–.05	143.64E–.06	11	3.6b		**¶17200948**
JMA	IV	13 21 05 01.3–.20	39.63N	143.65E	17	4.0		
IDC	IV	13 21 05 06.9–2.3	39.62N	143.30E	42–21	3.7,3.6		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.8km az=148.9.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=20.6km s-min=17.0km az=111.0.

ISC	**IV**	**13 21 16 18.4–.71**	**39.55N–.06**	**143.71E–.08**	**11**	**3.9b**	**40**	**1-73**
ISCJB	IV	13 21 16 16.7–.52	39.54N–.05	143.71E–.06	11	3.8b		**¶16505365**
IDC	IV	13 21 16 17.0–.75	39.56N	143.65E	0	4.0,3.8		
JMA	IV	13 21 16 17.2–.40	39.62N	143.66E	10	4.1,3.8		
NEIC	IV	13 21 16 21.8–2.4	39.58N	143.59E	31–16	4.3b,3.8		

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=136.8.

IDC Error ellipse: s-maj=19.6km s-min=14.5km az=118.0.

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=12.5km s-min=6.2km az=119.0.

ISC	**IV**	**13 21 17 59.2–2.5**	**39.63N–.06**	**143.49E–.08**	**6–14**	**3.6b**	**26**	**1-75**
ISCJB	IV	13 21 17 58.4–2.1	39.59N–.06	143.63E–.05	14–14	3.4b		**¶17200950**
IDC	IV	13 21 17 58.1–.80	39.57N	143.59E	0	3.7,3.6		
JMA	IV	13 21 17 59.2–.20	39.66N	143.63E	21	4.0,3.6		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.7km az=171.6.

IDC Error ellipse: s-maj=21.4km s-min=16.0km az=118.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**13 21 21 48.0–1.6**	**39.45N–.05**	**143.49E–.04**	**18–9**	**4.7b**	**194**	**1-144**
JMA	IV	13 21 21 45.9–.20	39.49N	143.58E	17	4.5		**¶16436813**
IDC	IV	13 21 21 46.0–.60	39.45N	143.40E	0	4.5,4.4		
ISCJB	IV	13 21 21 46.0–1.0	39.41N–.03	143.52E–.04	16–6	4.6b,4.6s		
BJI	IV	13 21 21 49.4	39.48N	143.18E	31	5.4b,4.9s		
NEIC	IV	13 21 21 49.2–1.7	39.48N	143.35E	20–11	4.7b,4.9s		
MOS	IV	13 21 21 49.0–.87	39.59N	143.28E	27	4.8b,4.9s		

ISC Event type se.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

IDC Error ellipse: s-maj=15.6km s-min=11.7km az=124.0.

ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.3km az=40.9.

NEIC Event type se. Error ellipse: s-maj=8.3km s-min=4.8km az=119.0.

MOS Error ellipse: s-maj=7.7km s-min=4.8km az=105.4.

JMA IV 13 21 29 59.7–.20 39.41N 143.52E 14–4 3.5
¶600586982

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**13 21 36 54.1–1.1**	**39.52N–.04**	**143.37E–.03**	**16–6**	**4.8b,4.5s**	**398**	**1-146**
NIED	IV	13 21 36 00	39.50N	143.50E	23	4.7W,4.5s		**¶16426891**
ISCJB	IV	13 21 36 51.7–.88	39.51N–.03	143.39E–.03	7–5	4.7b,4.5s		
IDC	IV	13 21 36 52.0–.58	39.49N	143.35E	0	4.6,4.5		
JMA	IV	13 21 36 53.2–.20	39.49N	143.52E	29	4.7,4.5		
BJI	IV	13 21 36 53.6	39.54N	143.15E	19	5.2b,4.8b		
MOS	IV	13 21 36 55.9–.98	39.66N	143.23E	30	5.0b,4.4s		
NEIC	IV	13 21 36 55.4–.75	39.52N	143.20E	18–4	4.8b,4.4s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ35.00000°,λ81.00000°. NP2:ϕ_s19.00000°,δ56.00000°,λ96.00000°. $M_0$1.37000×10^{16}

ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.0km az=146.1.

IDC Error ellipse: s-maj=14.5km s-min=12.0km az=120.0.

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

MOS Error ellipse: s-maj=6.8km s-min=4.1km az=108.5.

NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=139.0.

ISC	**IV**	**13 22 04 08.2–1.4**	**37.67N–.08**	**143.96E–.10**	**35**	**3.4b**	**22**	**2-62**
IDC	IV	13 22 04 03.0–1.9	37.55N	144.10E	0	3.8,3.7		**¶17200955**
ISCJB	IV	13 22 04 06.0–.88	37.60N–.06	143.97E–.07	33	3.5b,3.7		
JMA	IV	13 22 04 07.6–.20	37.71N	143.88E	39	3.6,3.7		

ISC Event type ke.

IDC Error ellipse: s-maj=46.7km s-min=25.5km az=78.0.

ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.1km az=42.3.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**IV**	**13 22 05 04.3–.61**	**36.39N–.06**	**142.70E–.07**	**15**	**4.5b**	**96**	**2-146**
NIED	IV	13 22 05 00	36.40N	142.50E	8	4.6W		**¶16587498**
IDC	IV	13 22 05 02.1–.71	36.37N	142.70E	0	4.1b,4.1		
ISCJB	IV	13 22 05 02.6–.40	36.44N–.04	142.71E–.05	15	4.3b,4.2s		
MOS	IV	13 22 05 03.0–1.1	36.43N	142.71E	20	4.6b,4.2s		
JMA	IV	13 22 05 04.0–.20	36.39N	142.54E	6	4.5,4.2s		
NEIC	IV	13 22 05 07.3–.47	36.49N	142.63E	35	4.7b,4.2s		

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ45.00000°,λ113.00000°. NP2:ϕ_s183.00000°,δ49.00000°,λ69.00000°. $M_0$7.93000×10^{15}

IDC Error ellipse: s-maj=18.2km s-min=14.8km az=104.0.

ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=136.4.

MOS Error ellipse: s-maj=10.5km s-min=6.2km az=118.0.

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.6km az=118.0.

JMA IV 13 22 15 24.5–.20 39.64N 143.55E 26 3.6
¶600586996

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**13 22 50 38.9–1.3**	**39.50N–.06**	**143.78E–.08**	**9–15**	**3.8b**	**53**	**2-87**
JMA	IV	13 22 50 36.6–.30	39.62N	143.75E	4	4.2		**¶16505366**
ISCJB	IV	13 22 50 37.9–1.8	39.58N–.04	143.75E–.06	18–12	3.8b		
IDC	IV	13 22 50 42.5–3.2	39.58N	143.61E	37–26	3.9,3.9		

ISC Event type ke.

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.4km az=41.5.

IDC Error ellipse: s-maj=19.9km s-min=13.9km az=120.0.

JMA IV 13 23 12 56.2–.20 38.38N 143.26E 22 3.9
¶600587035

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA IV 13 23 23 15.0–.30 39.56N 143.89E 10 3.9
¶600587047

JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**IV**	**13 23 36 08.3–1.2**	**39.59N–.09**	**143.3E–.10**	**11**	**3.8b**	**22**	**1-72**
NIED	IV	13 23 36 00	39.50N	143.60E	23	3.8W		**¶17200963**
IDC	IV	13 23 36 04.6–1.1	39.28N	143.36E	0	3.8,3.7		
ISCJB	IV	13 23 36 05.2–.93	39.51N–.07	143.6E–.10	11	3.8b,3.7		
JMA	IV	13 23 36 06.0–.30	39.50N	143.56E	21–5	3.9,3.7		

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ26.00000°,λ51.00000°. NP2:ϕ_s35.00000°,δ70.00000°,λ107.00000°. $M_0$4.75000×10^{14}

IDC Error ellipse: s-maj=31.0km s-min=21.4km az=79.0.

ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=7.0km az=35.0.

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA IV 13 23 40 33.9–.20 39.46N 143.53E 14–4 3.5
¶600587066

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**IV**	**14 00 18 30.4–1.1**	**39.59N–.08**	**143.64E–.09**	**11**	**3.6b**	**23**	**1-61**
NIED	IV	14 00 18 00	39.60N	143.60E	11	4.0W		**¶17200967**
IDC	IV	14 00 18 28.8–1.2	39.63N	143.75E	0	3.7,3.6		
ISCJB	IV	14 00 18 29.1–.84	39.62N–.09	143.77E–.08	11	3.4b,3.6		

JMA IV 14 00 18 32.4–.30 39.64N 143.65E 33 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s145.00000°,δ49.00000°,λ13.00000°. NP2:ϕ_s46.00000°,δ80.00000°,λ139.00000°. $M_0$1.22000×10^{15}
IDC Error ellipse: s-maj=32.3km s-min=22.2km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.1km az=154.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 14 00 32 26.6–.20 37.23N 142.25E 0 3.6
¶600587104
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 14 00 45 07.1–1.6 39.74N–.09 143.48E–.09 11 3.6b 21 1-44
IDC IV 14 00 44 58.5–1.8 37.86N 143.09E 0 3.7,3.7b **¶17200968**
ISCJB IV 14 00 45 05.3–1.1 39.74N–.08 143.60E–.08 11 3.6b,3.7b
JMA IV 14 00 45 05.2–.30 39.78N 143.57E 10–5 4.0,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=27.7km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=8.2km az=154.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 14 01 15 05.7–2.2 37.2N–.10 142.5E–.10 9 10 1-45
NIED IV 14 01 15 00 37.10N 142.60E 38 3.7W **¶17200972**
IDC IV 14 01 15 02.4–12 36.37N 142.21E 0 3.6b,3.5
JMA IV 14 01 15 03.6–.30 37.14N 142.56E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ43.00000°,λ164.00000°. NP2:ϕ_s7.00000°,δ79.00000°,λ48.00000°. $M_0$4.71000×10^{14}
IDC Error ellipse: s-maj=223.5km s-min=82.3km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 14 01 25 41.2–.20 39.64N 143.66E 22 3.7
NIED IV 14 01 25 00 39.60N 143.70E 35 3.6W **¶600587148**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ48.00000°,λ124.00000°. NP2:ϕ_s29.00000°,δ52.00000°,λ58.00000°. $M_0$3.12000×10^{14}
ISC IV 14 01 33 22.2–.58 39.81N–.04 143.31E–.04 23–3 4.7b,4.3s 313 1-146
NIED IV 14 01 33 00 39.80N 143.60E 23 4.7W,4.3s **¶16427215**
JMA IV 14 01 33 16.9–.20 39.75N 143.57E 0 4.6,4.3s
IDC IV 14 01 33 18.4–.53 39.72N 143.38E 0 4.5,4.5
MOS IV 14 01 33 21.2–1.0 39.94N 143.24E 21 4.9b,4.1s
ISCJB IV 14 01 33 23.0–.98 39.91N–.04 143.10E–.04 29–6 4.7b,4.3s
BJI IV 14 01 33 25.3 39.72N 142.92E 43 5.0b,4.8b
NEIC IV 14 01 33 26.6–.78 40.01N 142.87E 38–7 4.7b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ32.00000°,λ84.00000°. NP2:ϕ_s27.00000°,δ58.00000°,λ94.00000°. $M_0$1.37000×10^{16}.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=11.2km az=112.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=107.8.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.0km az=138.5.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.8km az=148.0.
ISC IV 14 01 37 35.2–.77 38.05N–.06 143.50E–.08 19 4.0b 38 2-74
IDC IV 14 01 37 32.3–.84 38.09N 143.59E 0 4.0,4.0L **¶600587153**
ISCJB IV 14 01 37 33.4–.51 38.07N–.05 143.49E–.06 19 3.9b,4.0L
NEIC IV 14 01 37 35.9–2.6 38.13N 143.59E 23–18 4.2b,4.0L
JMA IV 14 01 37 35.6–.30 38.06N 143.43E 49 3.9,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=15.7km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.5km az=44.2.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=6.9km az=115.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 14 01 56 44.5–.92 38.21N–.07 143.06E–.09 18 3.6b 26 1-88
NIED IV 14 01 56 00 38.20N 143.00E 11 3.7W **¶17200978**
IDC IV 14 01 56 41.4–.96 38.09N 143.30E 0 3.8,3.6L
ISCJB IV 14 01 56 42.9–.66 38.17N–.05 143.08E–.06 18 3.6b,3.6L
JMA IV 14 01 56 42.7–.30 38.19N 142.98E 6–4 4.1,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ39.00000°,λ-108.00000°. NP2:ϕ_s165.00000°,δ53.00000°,λ-75.00000°. $M_0$4.32000×10^{14}
IDC Error ellipse: s-maj=28.5km s-min=20.6km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.5km az=26.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 14 02 08 59.2–1.8 37.11N–.09 143.9E–.10 35 12 2-83
ISCJB IV 14 02 08 57.2–1.2 37.08N–.08 143.9E–.10 33 3.9b,3.3s **¶17200980**
IDC IV 14 02 08 58.8–10 36.41N 143.69E 0 3.9,3.7b
JMA IV 14 02 08 59.8–.30 37.13N 143.79E 46 3.3,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=8.4km az=139.1.
IDC Error ellipse: s-maj=237.3km s-min=46.7km az=32.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 14 02 15 39.2–.71 39.65N–.06 143.55E–.06 11 4.1b 71 1-85
NIED IV 14 02 15 00 39.70N 143.70E 23 4.0W **¶16505367**
JMA IV 14 02 15 37.0–.20 39.66N 143.67E 15 4.1
ISCJB IV 14 02 15 37.1–.50 39.63N–.05 143.64E–.05 11 4.1b,3.2s
MOS IV 14 02 15 40.2–1.1 39.63N 143.59E 34 4.4b,3.2s
NEIC IV 14 02 15 43.3–.71 39.70N 143.39E 35 4.3b,3.2s
IDC IV 14 02 15 43.5–4.4 39.70N 143.39E 35–31 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ45.00000°,λ95.00000°. NP2:ϕ_s20.00000°,δ45.00000°,λ85.00000°. $M_0$1.09000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.3km az=142.9.
MOS Error ellipse: s-maj=10.1km s-min=6.6km az=91.1.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=7.5km az=128.0.
IDC Error ellipse: s-maj=34.9km s-min=17.9km az=141.0.
JMA IV 14 03 27 22.0–.20 39.69N 143.61E 9 3.9
¶600587221
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 14 04 13 42.3–3.1 36.09N–.04 142.14E–.05 16–19 4.4b,3.7s 119 1-147
NIED IV 14 04 13 00 36.10N 142.20E 11 4.3W,3.7s **¶16437941**
IDC IV 14 04 13 40.2–.63 36.05N 142.05E 0 4.3,4.2
BJI IV 14 04 13 41.3 35.70N 141.78E 7 4.8b,4.7b
NEIC IV 14 04 13 41.8–2.6 36.07N 142.18E 13–16 4.6b,4.7b
MOS IV 14 04 13 41.4–.85 36.08N 142.18E 24 4.5b,4.7b
JMA IV 14 04 13 42.1–.20 36.11N 142.17E 65 4.3,4.7b
ISCJB IV 14 04 13 42.2–1.4 36.08N–.03 142.13E–.05 27–10 4.2b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s227.00000°,δ36.00000°,λ122.00000°. NP2:ϕ_s10.00000°,δ60.00000°,λ69.00000°. $M_0$3.75000×10^{15}
NEIC Event type se.
ISCJB Event type se.
IDC IV 14 04 32 50.7–8.2 36.45N 143.44E 0 3.9,3.6
¶17200984
IDC Error ellipse: s-maj=179.7km s-min=45.1km az=33.0.
ISC IV 14 04 45 24.0–1.6 39.7N–.20 143.5E–.20 10 3.8b 11 5-72
IDC IV 14 04 45 22.4–1.6 39.65N 143.45E 0 4.0,3.9 **¶16505368**
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=25.4km az=93.0.
ISC IV 14 04 58 43.9–1.1 39.5N–.20 143.9E–.20 11 3.5b 7 5-87
ISCJB IV 14 04 58 42.0–1.0 39.5N–.20 143.9E–.20 11 3.6b **¶17200987**
IDC IV 14 04 58 42.1–1.2 39.51N 143.96E 0 3.7,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.3km s-min=15.4km az=140.0.
IDC Error ellipse: s-maj=36.8km s-min=29.0km az=138.0.
JMA IV 14 05 58 17.2–.30 38.18N 143.02E 7–5 3.8
NIED IV 14 05 58 00 38.20N 143.00E 11 3.5W **¶600587304**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ47.00000°,λ-120.00000°. NP2:ϕ_s231.00000°,δ51.00000°,λ-62.00000°. $M_0$2.33000×10^{14}
JMA IV 14 07 42 27.9–.30 37.31N 142.48E 9–5 3.6
¶600587371
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 14 08 22 22.5–.64 39.39N–.05 143.83E–.06 11 3.9b 51 2-87
JMA IV 14 08 22 18.3–.20 39.43N 143.95E 3–4 4.3 **¶600587398**
ISCJB IV 14 08 22 20.6–.47 39.38N–.03 143.84E–.05 11 3.9b
IDC IV 14 08 22 21.5–.73 39.33N 143.63E 0 4.0,3.8
NEIC IV 14 08 22 25.5–3.1 39.39N 143.65E 25–23 4.2b,3.8
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=35.2.
IDC Error ellipse: s-maj=21.3km s-min=16.4km az=119.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.4km az=112.0.
ISC IV 14 08 56 03.4–1.0 39.1N–.10 144.7E–.10 19 3.7b 12 5-68
IDC IV 14 08 56 00.3–.89 39.01N 144.83E 0 3.7,3.6 **¶17200999**
ISCJB IV 14 08 56 01.1–.78 39.04N–.09 144.6E–.10 19 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 14 09 08 41.4–.30 39.54N 143.68E 8–4 3.6
¶600587429
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 14 09 45 35.5–.61 38.13N–.05 143.44E–.07 19 3.8b 53 2-76
NIED IV 14 09 45 00 38.20N 143.30E 8 3.8W **¶16505370**
IDC IV 14 09 45 33.3–.63 38.10N 143.38E 0 4.0,3.9
ISCJB IV 14 09 45 34.3–.46 38.15N–.04 143.37E–.05 19 3.8b,3.9
JMA IV 14 09 45 35.7–.20 38.22N 143.25E 18 3.6,3.9
NEIC IV 14 09 45 38.1–.47 38.08N 143.35E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ36.00000°,λ-107.00000°. NP2:ϕ_s27.00000°,δ56.00000°,λ-78.00000°. $M_0$5.74000×10^{14}
IDC Error ellipse: s-maj=17.7km s-min=13.5km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=143.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.6km az=111.0.
ISC IV 14 10 11 21.1–1.7 38.8N–.10 143.4E–.10 20 12 1-63
IDC IV 14 10 11 16.2–12 38.87N 143.86E 0 3.6,3.5b **¶17201008**
ISCJB IV 14 10 11 20.1–1.2 38.56N–.10 143.5E–.10 20 3.6b,3.5b
JMA IV 14 10 11 20.2–.50 38.69N 143.27E 0 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=270.8km s-min=59.1km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=11.0km az=37.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 14 10 29 05.5–1.6 37.06N–.07 142.5E–.10 9 3.5b 12 1-61
NIED IV 14 10 29 00 37.20N 142.60E 11 3.3W **¶17201011**
ISCJB IV 14 10 29 03.0–1.0 37.01N–.06 142.58E–.10 9 3.4b
IDC IV 14 10 29 03.7–1.7 36.93N 142.75E 0 3.5,3.4
JMA IV 14 10 29 04.7–.20 37.19N 142.58E 17 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ49.00000°,λ-38.00000°. NP2:ϕ_s343.00000°,δ62.00000°,λ-133.00000°. $M_0$9.85000×10^{13}
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.9km az=161.7.
IDC Error ellipse: s-maj=42.4km s-min=23.4km az=87.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 14 10 32 34.3–.40 39.74N–.04 143.44E–.03 29–2 5.0b,4.7s 910 1-144
NIED IV 14 10 32 00 39.80N 143.40E 11 4.9W,4.7s **¶602557474**
ISCJB IV 14 10 32 30.3–.81 39.73N–.02 143.39E–.02 10–5 5.0b,4.6s
BJI IV 14 10 32 31.8 39.85N 143.38E 26 5.0b,4.9b
JMA IV 14 10 32 32.1–.20 39.79N 143.43E 32 5.0,4.9b
GCMT IV 14 10 32 33.7–.40 39.81N 143.39E 17–2 4.8W,4.9b
NEIC IV 14 10 32 33.7–1.1 39.70N 143.31E 22–8 5.1b,4.9b
MOS IV 14 10 32 33.4–.92 39.91N 143.26E 26 5.2b,4.4s
IDC IV 14 10 32 34.2–.60 39.66N 143.39E 28–3 4.7,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s109.00000°,δ14.00000°,λ-27.00000°. NP2:ϕ_s226.00000°,δ84.00000°,λ-103.00000°. $M_0$2.93000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.2km az=161.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c15; s75,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.33±.08 $M_{\theta\theta}$0.69±.08; $M_{\phi\phi}$-0.36±.07; $M_{r\theta}$0.66±.21; $M_{\theta\phi}$1.18±.06; $M_{\phi r}$1.78±.40; Best double couple: NP1:ϕ_s199.00000°,δ85.00000°,λ-123.00000°. NP2:ϕ_s101.00000°,δ33.00000°,λ-9.00000°. Principal axes: T 2.4260,Plg32.0000°,Azm316.0000°; N -0.2420,Plg33.0000°,Azm202.0000°; P -2.1840,Plg41.0000°,Azm78.0000° $M_0$2.30500×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=2.4km az=136.0. Felt at Misawa. Recorded [3 JMA] in Iwate.
MOS Error ellipse: s-maj=6.2km s-min=3.8km az=96.0.
IDC Error ellipse: s-maj=11.4km s-min=10.2km az=130.0.
ISC IV 14 10 39 04.1–1.4 37.39N–.06 142.52E–.09 21 4.1b 18 1-61
IDC IV 14 10 39 00.4–2.2 37.42N 142.73E 0 4.0,4.0b **¶17201013**
ISCJB IV 14 10 39 01.7–1.0 37.38N–.06 142.67E–.08 21 4.0b,4.0b
JMA IV 14 10 39 01.0–.20 37.41N 142.51E 0 4.0,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=54.7km s-min=28.9km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.5km az=138.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 14 11 55 19.1–3.1 39.53N–.06 143.38E–.08 12–17 21 1-60
IDC IV 14 11 55 16.5–2.3 39.51N 143.65E 0 3.3b,3.3 **¶17201019**
JMA IV 14 11 55 19.3–.30 39.55N 143.40E 17–4 3.6,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=59.4km s-min=28.6km az=83.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 14 12 46 18.7–.72 37.93N–.07 144.29E–.07 35 3.9b 50 2-74
IDC IV 14 12 46 12.8–.73 37.79N 144.46E 0 3.9,3.8L **¶16587506**
ISCJB IV 14 12 46 16.7–.49 37.91N–.05 144.28E–.04 33 3.8b,3.8L
JMA IV 14 12 46 16.8–.20 38.00N 144.02E 5 4.1,3.8L
NEIC IV 14 12 46 18.1–.45 37.84N 144.42E 35 4.0b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=14.9km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.7km az=177.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.4km az=131.0.
ISC IV 14 12 51 03.4–.69 39.71N–.06 143.37E–.06 11 4.1b,3.2s 51 1-75
ISCJB IV 14 12 51 01.4–.45 39.70N–.04 143.48E–.05 11 3.9b,3.2s **¶16505372**
JMA IV 14 12 51 04.2–.20 39.74N 143.36E 24 4.0,3.2s
IDC IV 14 12 51 07.9–2.2 39.73N 143.36E 44–20 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=135.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.8km s-min=13.5km az=130.0.
JMA IV 14 13 14 05.0–.20 36.37N 142.53E 51 3.5
¶600587573
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 14 14 41 07.9–.84 37.36N–.05 144.33E–.08 35 3.6b 39 3-73
NIED IV 14 14 41 00 37.30N 144.30E 8 3.6W **¶17201034**
ISCJB IV 14 14 41 05.9–.61 37.35N–.04 144.35E–.05 33 3.6b
JMA IV 14 14 41 06.8–.50 37.30N 144.27E 46 3.8
IDC IV 14 14 41 08.2–5.3 37.19N 144.50E 36–45 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ32.00000°,λ-64.00000°. NP2:ϕ_s153.00000°,δ62.00000°,λ-105.00000°. $M_0$2.62000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.3km az=154.4.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=32.0km s-min=19.5km az=100.0.
JMA IV 14 14 45 36.4–.20 39.60N 143.80E 16 3.5
NIED IV 14 14 45 00 39.60N 143.80E 17 3.4W **¶600587639**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ34.00000°,λ84.00000°. NP2:ϕ_s22.00000°,δ56.00000°,λ94.00000°. $M_0$1.48000×10^{14}
ISC IV 14 15 00 58.1–3.5 39.58N–.05 143.48E–.08 1–21 3.6b 38 1-72
NIED IV 14 15 00 00 39.60N 143.60E 11 3.8W **¶17201035**
IDC IV 14 15 00 57.9–.77 39.56N 143.53E 0 3.7,3.6
JMA IV 14 15 00 59.5–.20 39.61N 143.56E 22 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s226.00000°,δ39.00000°,λ-142.00000°. NP2:ϕ_s105.00000°,δ67.00000°,λ-58.00000°. $M_0$4.75000×10^{14}

IDC Error ellipse: s-maj=22.3km s-min=15.2km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 14 15 52 54.9–.81 37.25N–.06 142.55E–.06 21 3.6b 24 1-160
NIED IV 14 15 52 00 37.20N 142.40E 8 3.6W **¶600587707**
IDC IV 14 15 52 52.2–.90 37.22N 142.53E 0 3.7,3.7
ISCJB IV 14 15 52 53.5–.66 37.23N–.05 142.53E–.05 21 3.5b,3.7
JMA IV 14 15 52 54.7–.30 37.22N 142.42E 19 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ42.00000°,λ-102.00000°. NP2:ϕ_s218.00000°,δ49.00000°,λ-79.00000°. $M_0$3.26000×10^{14}
IDC Error ellipse: s-maj=23.8km s-min=16.3km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.0km az=169.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 14 17 05 01.7–.91 39.86N–.06 143.67E–.08 6 3.7b 34 1-67
NIED IV 14 17 04 00 39.90N 143.80E 11 3.8W **¶17201041**
ISCJB IV 14 17 04 59.4–.66 39.83N–.04 143.87E–.07 6 3.6b
JMA IV 14 17 04 59.3–.30 39.90N 143.79E 0 3.9
IDC IV 14 17 05 01.1–1.0 39.83N 143.53E 0 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ34.00000°,λ85.00000°. NP2:ϕ_s24.00000°,δ57.00000°,λ93.00000°. $M_0$6.00000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.8km az=20.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=26.7km s-min=16.0km az=99.0.
JMA IV 14 17 10 11.2–.40 37.73N 142.37E 4 3.5
¶600587805
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 14 17 16 34.9–.64 37.91N–.05 143.57E–.07 19 4.1b,3.2s 87 2-128
IDC IV 14 17 16 31.8–.71 37.80N 143.65E 0 4.0,3.9 **¶16587513**
ISCJB IV 14 17 16 33.0–.41 37.92N–.03 143.60E–.05 19 4.0b,3.1s
NEIC IV 14 17 16 32.5–2.4 37.82N 143.64E 5–14 4.3b,3.1s
MOS IV 14 17 16 32.9–1.4 37.89N 143.67E 22 4.3b,3.1s
JMA IV 14 17 16 35.1–.30 37.90N 143.49E 42 4.1,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=13.2km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=22.1.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.9km az=121.0.
MOS Error ellipse: s-maj=9.6km s-min=6.2km az=93.9.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 14 17 32 16.5–.78 39.50N–.05 143.66E–.05 17–4 4.3b,3.8s 144 1-87
NIED IV 14 17 32 00 39.50N 143.70E 17 4.3W,3.8s **¶16505373**
JMA IV 14 17 32 12.4–.30 39.55N 143.70E 1 4.5,3.8s
ISCJB IV 14 17 32 13.2–1.1 39.48N–.03 143.68E–.04 7–7 4.3b,3.8s
IDC IV 14 17 32 14.2–.63 39.46N 143.51E 0 4.2,4.1
BJI IV 14 17 32 15.6 39.54N 143.53E 25 5.0b,4.6b
MOS IV 14 17 32 16.3–1.0 39.54N 143.58E 25 4.5b,4.6b
NEIC IV 14 17 32 17.9–1.9 39.49N 143.52E 24–13 4.4b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ27.00000°,λ88.00000°. NP2:ϕ_s7.00000°,δ63.00000°,λ91.00000°. $M_0$3.00000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.7km az=42.1.
IDC Error ellipse: s-maj=17.4km s-min=12.5km az=127.0.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=97.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.6km az=123.0.
ISC IV 14 17 34 36.4–.53 38.76N–.06 144.40E–.06 29 4.2b,3.5s 106 2-118
NIED IV 14 17 34 00 38.80N 144.40E 5 4.3W,3.5s **¶16445515**
MOS IV 14 17 34 32.7–1.2 38.72N 144.44E 19 4.3b,3.5s
ISCJB IV 14 17 34 34.3–.36 38.68N–.04 144.37E–.04 29 4.2b,3.6s
NEIC IV 14 17 34 34.6–2.8 38.63N 144.42E 20–17 4.5b,3.6s
IDC IV 14 17 34 36.0–4.6 38.62N 144.37E 30–32 4.1,4.1
JMA IV 14 17 34 35.3–.20 38.82N 144.34E 35 4.6,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ41.00000°,λ-107.00000°. NP2:ϕ_s179.00000°,δ51.00000°,λ-75.00000°. $M_0$2.94000×10^{15}
MOS Error ellipse: s-maj=9.1km s-min=6.2km az=94.9.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.7km az=158.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.8km az=127.0.
IDC Error ellipse: s-maj=16.9km s-min=11.7km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 14 17 54 45.6–.97 38.76N–.05 144.47E–.08 29 3.5b 43 2-68
IDC IV 14 17 54 40.6–1.1 38.62N 144.70E 0 3.8,3.7 **¶17201044**
ISCJB IV 14 17 54 44.2–.67 38.77N–.04 144.41E–.05 29 3.6b,3.3s
JMA IV 14 17 54 45.9–.10 38.75N 144.34E 41 4.0,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=17.6km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.6km az=42.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 14 18 00 54.7–.30 38.78N 144.32E 38 3.6
NIED IV 14 18 00 00 38.80N 144.30E 11 3.6W **¶600587843**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ73.00000°,λ11.00000°. NP2:ϕ_s329.00000°,δ80.00000°,λ163.00000°. $M_0$2.57000×10^{14}
ISC IV 14 18 12 33.2–3.8 38.79N–.05 144.32E–.05 32–27 4.1b,3.1s 98 2-118
IDC IV 14 18 12 27.5–.59 38.65N 144.49E 0 4.2,4.1 **¶16587514**
MOS IV 14 18 12 28.7–1.4 38.75N 144.56E 23 4.3b,4.1
ISCJB IV 14 18 12 30.0–1.3 38.81N–.03 144.37E–.04 23–9 4.1b,3.1s
JMA IV 14 18 12 31.2–.20 38.74N 144.36E 42 4.2,3.1s
NEIC IV 14 18 12 32.5–.45 38.61N 144.47E 35 4.5b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.7km az=118.0.
MOS Error ellipse: s-maj=10.2km s-min=6.6km az=95.7.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.3km az=140.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.0km az=126.0.
ISC IV 14 18 37 36.5–.91 39.63N–.07 143.36E–.06 11 3.6b 26 1-75
NIED IV 14 18 37 00 39.80N 143.20E 11 3.6W **¶17201047**
ISCJB IV 14 18 37 34.3–.71 39.54N–.06 143.57E–.07 11 3.5b,2.6s
JMA IV 14 18 37 39.2–.40 39.82N 143.21E 11–4 3.5,2.6s
IDC IV 14 18 37 41.0–2.6 39.72N 143.50E 49–24 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ25.00000°,λ25.00000°. NP2:ϕ_s71.00000°,δ80.00000°,λ113.00000°. $M_0$2.95000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.9km az=139.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=25.4km s-min=18.2km az=100.0.
ISC IV 14 18 54 45.3–2.2 36.7N–.10 142.1E–.10 19 10 1-42
IDC IV 14 18 54 43.9–4.0 36.62N 141.97E 0 3.4,3.4 **¶17201049**
JMA IV 14 18 55 01.5 37.02N 140.62E 7–1 2.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=58.0km s-min=33.8km az=90.0.
ISC IV 14 20 14 27.4–1.1 37.89N–.06 142.9E–.10 18 3.2b 16 1-58
IDC IV 14 20 14 24.6–1.3 37.85N 143.12E 0 3.5,3.4 **¶17201057**
ISCJB IV 14 20 14 25.3–.84 37.90N–.06 143.01E–.08 18 3.2b,3.4
JMA IV 14 20 14 26.2–.30 37.94N 142.92E 14 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=30.3km s-min=21.9km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.7km az=144.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 14 21 03 46.6–1.2 39.90N–.06 143.36E–.08 6 3.8b 28 1-67
NIED IV 14 21 03 00 39.80N 143.50E 11 3.8W **¶17201062**
ISCJB IV 14 21 03 44.5–.87 39.80N–.05 143.57E–.08 6 3.7b
IDC IV 14 21 03 46.0–2.3 39.94N 143.50E 0 3.7,3.7
JMA IV 14 21 03 46.2–.40 39.83N 143.49E 12 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ21.00000°,λ-107.00000°. NP2:ϕ_s191.00000°,δ70.00000°,λ-83.00000°. $M_0$4.80000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.3km az=37.7.
IDC Error ellipse: s-maj=43.5km s-min=26.3km az=135.0.
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISC IV 14 21 24 02.5–.76 37.94N–.07 143.59E–.07 19 3.9b 45 2-145
IDC IV 14 21 23 59.3–.76 37.76N 143.81E 0 3.9,3.8 **¶16577810**
ISCJB IV 14 21 24 00.0–.53 37.83N–.05 143.67E–.05 19 3.8b,3.8
NEIC IV 14 21 24 03.8–.54 37.72N 143.80E 35 4.4b,3.8
JMA IV 14 21 24 03.6–.40 37.96N 143.43E 36 3.8,3.8
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=16.0km az=95.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.0km az=145.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=9.3km az=122.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC IV 14 21 58 59.8–1.8 35.51N 142.26E 0 3.5,3.5
¶602945433
IDC Error ellipse: s-maj=46.9km s-min=21.2km az=77.0.
ISC IV 14 22 29 20.8–1.1 37.57N–.09 143.4E–.10 35 3.5b 11 4-118
IDC IV 14 22 29 15.9–1.4 37.69N 143.40E 0 3.6,3.6 **¶17201069**
ISCJB IV 14 22 29 18.2–1.0 37.7N–.10 143.4E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 14 22 49 06.6–.63 36.89N–.07 143.79E–.08 35 3.9b 39 2-89
IDC IV 14 22 49 01.1–.73 36.87N 143.96E 0 4.1,4.0L **¶600588141**
ISCJB IV 14 22 49 04.3–.47 36.78N–.06 143.77E–.06 33 3.9b,4.0L
NEIC IV 14 22 49 05.9–.50 36.81N 143.94E 35 4.3b,4.0L
JMA IV 14 22 49 30.9–.20 37.88N 142.88E 54 3.6,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=16.7km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.2km az=154.3.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=9.1km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 14 23 07 27.9–.83 35.65N–.06 142.06E–.07 22 4.0s,3.5b 25 1-147
IDC IV 14 23 07 24.8–.90 35.49N 142.05E 0 4.0,4.0s **¶600588169**
ISCJB IV 14 23 07 26.8–.71 35.63N–.07 142.04E–.06 22 4.1s,3.6b
JMA IV 14 23 07 27.6–.30 35.74N 142.06E 37–4 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=19.5km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.1km az=9.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 14 23 28 00.4–.20 38.72N 144.00E 32 3.6
¶600588202
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 14 23 50 08.3–.46 36.53N–.04 142.28E–.04 50 4.8b,4.4s 171 1-146
IDC IV 14 23 50 00.9–.54 36.39N 142.75E 0 4.3,4.2 **¶16436919**
NIED IV 14 23 50 00 36.40N 142.70E 8 4.7W,4.2
JMA IV 14 23 50 03.3–.20 36.45N 142.66E 49 4.7,4.2
ISCJB IV 14 23 50 10.9–.45 36.76N–.05 141.99E–.06 50 4.7b,4.4s
MOS IV 14 23 50 15.7–1.9 37.53N 141.16E 33 5.1b,4.0s
BJI IV 14 23 50 22.5 36.98N 140.96E 100 5.0b,4.7b
NEIC IV 14 23 50 24.0–.71 37.29N 140.93E 94–7 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=11.4km az=111.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ37.00000°,λ103.00000°. NP2:ϕ_s16.00000°,δ54.00000°,λ80.00000°. $M_0$1.31000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.6km az=44.6.
MOS Error ellipse: s-maj=8.0km s-min=5.2km az=97.9.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=146.0.
ISC IV 15 00 54 59.9–2.1 35.9N–.10 142.1E–.10 23 3.5b 8 1-60
JMA IV 15 00 54 57.7–.20 35.90N 142.25E 55 2.9 **¶17201076**
IDC IV 15 00 54 58.0–2.6 36.86N 142.75E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=74.7km s-min=25.3km az=60.0.
ISC IV 15 00 56 26.7–.45 36.45N–.04 142.54E–.03 30–2 4.7b,4.5s 318 2-151
NIED IV 15 00 56 00 36.50N 142.50E 8 4.7W,4.5s **¶16436924**
IDC IV 15 00 56 21.9–.49 36.38N 142.55E 0 4.4,4.3
JMA IV 15 00 56 24.8–.30 36.45N 142.54E 64 4.4,4.3
MOS IV 15 00 56 25.3–1.0 36.61N 142.47E 25 4.9b,4.2s
BJI IV 15 00 56 25.0 36.48N 142.59E 40 5.0b,4.7b
ISCJB IV 15 00 56 26.3–.18 36.46N–.03 142.49E–.03 38 4.7b,4.4s
NEIC IV 15 00 56 27.1–1.4 36.45N 142.55E 30–9 4.8b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ39.00000°,λ98.00000°. NP2:ϕ_s17.00000°,δ52.00000°,λ83.00000°. $M_0$1.22000×10^{16}
IDC Error ellipse: s-maj=12.8km s-min=11.2km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=108.6.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=153.0.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.3km az=132.0.
JMA IV 15 03 34 06.7–.20 38.01N 144.34E 16 3.5
¶600588456
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 15 03 46 24.4–.86 36.92N–.06 143.19E–.08 25 3.8b 26 2-89
NIED IV 15 03 46 00 37.00N 143.20E 5 3.9W **¶17201083**
IDC IV 15 03 46 20.8–.87 36.81N 143.47E 0 3.9,3.7
ISCJB IV 15 03 46 22.7–.66 36.99N–.06 143.26E–.07 25 3.7b,3.7
JMA IV 15 03 46 24.6–.40 36.99N 143.16E 41 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ16.00000°,λ-83.00000°. NP2:ϕ_s212.00000°,δ75.00000°,λ-92.00000°. $M_0$6.88000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=19.6km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.9km az=39.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 15 04 08 52.6–1.0 38.74N–.08 144.35E–.09 29 3.6b 29 2-68
ISCJB IV 15 04 08 51.0–.87 38.75N–.06 144.34E–.07 29 3.6b **¶17201085**
JMA IV 15 04 08 51.8–.20 38.74N 144.31E 40 3.9
IDC IV 15 04 08 52.5–1.2 38.61N 144.60E 34–7 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.5km az=166.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=22.0km az=79.0.
ISC IV 15 04 44 38.2–2.4 37.91N–.06 143.16E–.06 6–14 4.2b 91 2-151
IDC IV 15 04 44 37.2–.70 37.80N 143.24E 0 4.1,4.1 **¶16505387**
ISCJB IV 15 04 44 38.4–1.4 37.85N–.04 143.18E–.04 19–9 4.2b,3.1s
JMA IV 15 04 44 38.4–.20 37.85N 143.25E 35 4.5,3.1s
NEIC IV 15 04 44 39.2–3.1 37.89N 143.15E 11–19 4.3b,3.1s
MOS IV 15 04 44 40.0–1.4 37.95N 143.16E 29 4.4b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=14.7km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=162.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.2km az=125.0.
MOS Error ellipse: s-maj=10.6km s-min=6.2km az=95.4.
ISC IV 15 06 00 28.1–.83 36.01N–.07 142.81E–.09 35 3.5b 21 2-90
IDC IV 15 06 00 22.7–.86 35.87N 142.85E 0 3.8,3.6 **¶17201095**
ISCJB IV 15 06 00 26.0–.64 35.98N–.07 142.82E–.07 33 3.4b,3.6
JMA IV 15 06 00 26.8–.30 36.04N 142.72E 66 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=22.3km az=9.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.5km az=151.5.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC IV 15 07 40 30.4–.68 37.71N–.05 144.26E–.07 35 4.1b 53 2-82
NIED IV 15 07 40 00 37.80N 144.20E 5 3.9W **¶16532026**
IDC IV 15 07 40 24.5–.66 37.48N 144.43E 0 4.1,4.0
NEIC IV 15 07 40 25.8–4.7 37.53N 144.48E 8–29 4.3b,4.0
ISCJB IV 15 07 40 28.0–.45 37.62N–.04 144.28E–.04 33 4.0b,4.0
JMA IV 15 07 40 29.2–.20 37.75N 144.23E 40 4.2,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ22.00000°,λ-82.00000°. NP2:ϕ_s206.00000°,δ68.00000°,λ-93.00000°. $M_0$8.87000×10^{14}
IDC Error ellipse: s-maj=19.7km s-min=13.6km az=119.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=7.6km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=166.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

JMA IV 15 09 37 30.2–.40 39.70N 143.63E 14 3.8
NIED IV 15 09 37 00 39.70N 143.60E 23 3.7W **¶600588725**
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ43.00000°,λ95.00000°. NP2:ϕ_s17.00000°,δ48.00000°,λ86.00000°. $M_0$3.39000×10^{14}
ISC IV 15 09 48 36.0–1.4 36.66N–.09 144.0E–.10 35 3.6b 13 5-61
IDC IV 15 09 48 31.6–2.3 36.84N 143.96E 0 3.8,3.7 **¶17201119**
ISCJB IV 15 09 48 33.9–1.1 36.67N–.07 143.95E–.09 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 11 29 33.2–1.5 38.46N–.06 144.53E–.09 29 3.5b 25 2-63
NIED IV 15 11 29 00 38.50N 144.40E 5 3.5W **¶17201128**
IDC IV 15 11 29 27.1–2.2 38.32N 145.01E 0 3.6,3.5
ISCJB IV 15 11 29 31.8–1.0 38.49N–.04 144.51E–.07 29 3.3b,3.5
JMA IV 15 11 29 33.7–.30 38.47N 144.41E 39 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ45.00000°,λ-77.00000°. NP2:ϕ_s195.00000°,δ46.00000°,λ-103.00000°. $M_0$1.98000×10^{14}
IDC Error ellipse: s-maj=58.5km s-min=28.5km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.6km az=27.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC IV 15 11 48 32.1–2.1 37.53N 144.15E 0 3.5,3.4
¶17201129
IDC Error ellipse: s-maj=56.3km s-min=33.5km az=80.0.
ISC IV 15 11 49 34.6–3.0 37.38N–.05 142.60E–.07 1–18 3.7b 33 1-89
NIED IV 15 11 49 00 37.50N 142.60E 5 4.0W **¶17201130**
IDC IV 15 11 49 34.5–.69 37.36N 142.70E 0 3.9,3.8
JMA IV 15 11 49 34.9–.30 37.48N 142.55E 0 4.2,3.8
ISCJB IV 15 11 49 35.2–1.7 37.32N–.04 142.66E–.06 18–12 3.7b,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ2.00000°,λ-122.00000°. NP2:ϕ_s225.00000°,δ88.00000°,λ-89.00000°. $M_0$1.22000×10^{15}
ISCJB Event type ke.
ISC IV 15 13 00 19.3–.56 38.75N–.04 144.74E–.03 25–3 5.0b,4.2s 870 2-153
IDC IV 15 13 00 15.3–.40 38.61N 144.80E 0 4.9,4.7 **¶16437961**
ISCJB IV 15 13 00 16.8–.73 38.79N–.02 144.67E–.02 15–4 4.9b,4.1s
BJI IV 15 13 00 17.6 38.79N 144.71E 23 5.0b,4.7b
JMA IV 15 13 00 18.7–.20 38.76N 144.66E 50 4.8,4.7b
MOS IV 15 13 00 18.1–1.1 38.88N 144.71E 20 5.2b,4.3s
NEIC IV 15 13 00 20.9–.14 38.67N 144.67E 35 5.0b,4.3s
GCMT IV 15 13 00 20.9–.30 38.71N 144.66E 12 4.8W,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=9.7km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.0km az=178.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=3.9km az=102.5.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=157.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c21; s81,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.02±.06 $M_{\theta\theta}$0.44±.06; $M_{\phi\phi}$1.58±.05; $M_{r\theta}$-0.56±.28; $M_{\theta\phi}$0.64±.05; $M_{\phi r}$0.77±.22; Best double couple: NP1:ϕ_s185.00000°,δ55.00000°,λ-112.00000°. NP2:ϕ_s40.00000°,δ40.00000°,λ-62.00000°. Principal axes:
T 1.9270,Plg8.0000°,Azm290.0000°; N 0.4180,Plg18.0000°,Azm198.0000°
; P -2.3490,Plg71.0000°,Azm43.0000° $M_0$2.13800×10^{16}
JMA IV 15 13 40 30.3–.30 39.49N 143.70E 2 3.5
NIED IV 15 13 40 00 39.50N 143.70E 26 3.5W **¶600588862**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ30.00000°,λ72.00000°. NP2:ϕ_s27.00000°,δ61.00000°,λ100.00000°. $M_0$1.78000×10^{14}
JMA IV 15 14 06 01.1–.20 38.69N 144.14E 45 3.4
¶600588900
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA IV 15 14 26 03.6–.20 37.34N 142.47E 0–3 3.5
NIED IV 15 14 26 00 37.30N 142.50E 11 3.4W **¶600588932**
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ42.00000°,λ-95.00000°. NP2:ϕ_s29.00000°,δ48.00000°,λ-85.00000°. $M_0$1.20000×10^{14}
IDC IV 15 15 41 09.3–8.6 36.60N 142.01E 0 3.5,3.2
¶17201142
IDC Error ellipse: s-maj=187.5km s-min=43.5km az=30.0.
ISC IV 15 15 44 39.5–1.4 37.44N–.07 144.75E–.09 35 3.3b 22 3-62
IDC IV 15 15 44 34.6–2.1 37.36N 144.92E 0 3.5,3.4 **¶17201143**
ISCJB IV 15 15 44 37.9–.90 37.46N–.06 144.71E–.07 33 3.4b,3.4
JMA IV 15 15 44 41.7–.50 37.61N 144.52E 40 4.0,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=58.5km s-min=27.2km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.8km az=148.0.
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
JMA IV 15 16 24 50.4–.30 39.85N 143.46E 11–4 3.5
¶600589045
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 15 16 28 53.8–3.3 37.83N–.07 142.10E–.09 27–22 3.4b 24 1-63
NIED IV 15 16 28 00 37.80N 142.10E 38 3.6W **¶17201145**
IDC IV 15 16 28 49.7–.95 37.78N 142.29E 0 3.6,3.4b
JMA IV 15 16 28 54.2–.20 37.83N 142.07E 40–4 3.8,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ39.00000°,λ-94.00000°. NP2:ϕ_s202.00000°,δ51.00000°,λ-87.00000°. $M_0$2.79000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=20.6km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 15 16 37 27.6–16 37.44N 144.44E 0 3.3,3.1
¶17201148
IDC Error ellipse: s-maj=340.3km s-min=51.1km az=22.0.
ISC IV 15 18 46 58.2–1.4 38.61N–.07 143.78E–.09 14 3.5b 23 2-63
ISCJB IV 15 18 46 57.0–.96 38.57N–.06 143.80E–.08 14 3.4b,2.4s **¶17201161**
IDC IV 15 18 46 56.1–1.3 38.32N 144.23E 0 3.5,3.3L
JMA IV 15 18 46 58.2–.20 38.60N 143.76E 23 3.3,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.9km az=42.1.
IDC Error ellipse: s-maj=41.2km s-min=24.0km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 15 19 37 43.1–1.1 37.63N–.10 144.9E–.10 35 3.7b 12 5-70
IDC IV 15 19 37 37.9–1.2 37.59N 144.90E 0 3.8,3.7b **¶17201165**
ISCJB IV 15 19 37 40.9–.93 37.66N–.08 144.8E–.10 33 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 20 29 33.8–.54 36.26N–.04 142.81E–.06 28–2 4.0b,3.3s 86 2-146
NIED IV 15 20 29 00 36.30N 142.70E 8 4.0W,3.3s **¶16505394**
NEIC IV 15 20 29 30.2–.78 36.23N 143.21E 25–6 4.2b,3.3s
ISCJB IV 15 20 29 32.3–1.5 36.25N–.04 142.81E–.04 33–11 4.0b,3.4s
JMA IV 15 20 29 33.3–.20 36.34N 142.72E 72 3.9,3.4s
IDC IV 15 20 29 35.2–.55 36.15N 142.86E 41–4 3.9,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ26.00000°,λ-125.00000°. NP2:ϕ_s212.00000°,δ69.00000°,λ-74.00000°. $M_0$1.13000×10^{15}
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=7.6km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.7km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.6km s-min=8.7km az=145.0.
JMA IV 15 20 38 34.0–.30 37.53N 142.72E 0 3.5
¶600589228
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 15 21 10 34.6–.95 37.29N–.03 142.49E–.03 8–5 5.0b,4.5s 817 1-146
NIED IV 15 21 10 00 37.30N 142.50E 20 4.9W,4.5s **¶16440086**
BJI IV 15 21 10 30.3 37.17N 142.90E 17 5.0b,5.0b
ISCJB IV 15 21 10 32.9–.75 37.23N–.02 142.48E–.02 5–4 5.0b,4.5s
JMA IV 15 21 10 32.6–.20 37.29N 142.51E 0 5.1,4.5s
IDC IV 15 21 10 35.5–3.8 37.25N 142.46E 12–23 4.8,4.8
MOS IV 15 21 10 36.5–1.1 37.30N 142.45E 28 5.2b,4.5s
NEIC IV 15 21 10 38.0–1.1 37.21N 142.41E 28–7 5.0b,4.5s
GCMT IV 15 21 10 38.0–.30 37.42N 142.52E 15–1 5.0W,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ59.00000°,λ-11.00000°. NP2:ϕ_s330.00000°,δ81.00000°,λ-148.00000°. $M_0$2.54000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.2km az=165.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=11.1km s-min=9.4km az=121.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=105.0.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=138.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c29; s70,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.39±.14 $M_{\theta\theta}$-1.05±.10; $M_{\phi\phi}$2.44±.10; $M_{r\theta}$2.74±.42; $M_{\theta\phi}$0.97±.07; $M_{\phi r}$-3.04±.43; Best double couple: NP1:ϕ_s330.00000°,δ82.00000°,λ-117.00000°. NP2:ϕ_s224.00000°,δ28.00000°,λ-18.00000°. Principal axes:
T 4.1730,Plg31.0000°,Azm82.0000°; N 0.9340,Plg27.0000°,Azm335.0000°
; P -5.1070,Plg47.0000°,Azm212.0000° $M_0$4.64000×10^{16}
ISC IV 15 21 19 13.5–.34 37.22N–.04 144.33E–.04 25–2 4.8b,4.3s 446 3-145
NIED IV 15 21 19 00 37.00N 144.30E 5 4.5W,4.3s **¶600589253**
IDC IV 15 21 19 08.3–.51 36.97N 144.52E 0 4.6,4.5
JMA IV 15 21 19 12.2–.30 36.99N 144.28E 54 4.7,4.5
MOS IV 15 21 19 13.0–.83 37.31N 144.36E 28 5.1b,4.5
ISCJB IV 15 21 19 13.7–.16 37.24N–.03 144.30E–.02 36 4.8b,4.3s
NEIC IV 15 21 19 14.2–1.2 37.22N 144.33E 29–8 4.9b,4.3s
BJI IV 15 21 19 16.1 37.37N 144.06E 42 5.0b,4.7b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ46.00000°,λ-48.00000°. NP2:ϕ_s152.00000°,δ58.00000°,λ-125.00000°. $M_0$5.62000×10^{15}
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=142.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=110.6.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.3km az=171.5.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=150.0.
JMA IV 15 21 46 05.2–.40 38.60N 143.66E 10 3.5
NIED IV 15 21 46 00 38.60N 143.70E 8 3.7W **¶600589272**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ21.00000°,λ-45.00000°. NP2:ϕ_s178.00000°,δ76.00000°,λ-105.00000°. $M_0$4.02000×10^{14}
JMA IV 15 21 54 48.3–.20 38.86N 144.26E 40 4.0
¶600589279
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 15 22 12 08.1–.84 38.12N–.06 143.56E–.07 19 3.9b 53 2-74
IDC IV 15 22 12 05.0–1.0 38.06N 143.61E 0 4.0,3.9 **¶16577838**
ISCJB IV 15 22 12 06.5–.53 38.13N–.04 143.59E–.04 19 3.9s,3.8b
JMA IV 15 22 12 08.2–.20 38.12N 143.51E 32 4.0,3.8b
NEIC IV 15 22 12 09.8–2.8 38.12N 143.56E 30–18 4.2b,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=18.4km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.5km az=136.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=7.4km az=126.0.
ISC IV 15 22 17 28.0–1.0 37.46N–.09 144.4E–.10 35 4.1s,3.7b 13 5-75
IDC IV 15 22 17 22.3–.90 37.28N 144.65E 0 3.9,3.7b **¶17201174**
ISCJB IV 15 22 17 25.4–.80 37.3N–.10 144.44E–.10 33 3.9s,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 23 08 57.6–.69 37.81N–.07 144.51E–.09 35 3.9b 26 4-144
IDC IV 15 23 08 52.7–.70 37.69N 144.70E 0 4.1L,4.0 **¶16577839**
ISCJB IV 15 23 08 55.4–.50 37.60N–.07 144.54E–.07 33 3.8b,4.0
NEIC IV 15 23 08 57.7–.53 37.72N 144.61E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=15.0km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.5km az=149.2.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.1km az=117.0.
ISC IV 15 23 37 24.2–1.7 36.13N–.06 142.1E–.10 23 17 1-56
IDC IV 15 23 37 21.9–3.0 36.10N 142.14E 0 3.6,3.5 **¶17201177**
ISCJB IV 15 23 37 22.8–1.2 36.17N–.06 142.17E–.10 23 3.6b,3.5
JMA IV 15 23 37 24.4–.30 36.20N 142.08E 51 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=63.7km s-min=31.2km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.3km az=158.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 16 02 04 49.5–.30 37.98N 142.94E 13 3.6
¶600589419
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC IV 16 05 41 26.2–1.4 35.36N 142.89E 0 3.9,3.7b
¶17201193
IDC Error ellipse: s-maj=44.2km s-min=28.2km az=115.0.
JMA IV 16 06 54 08.7–.20 39.94N 143.69E 10 3.5
¶600589578
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA IV 16 07 32 44.5–.30 38.84N 144.22E 36 3.8
¶600589589
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 16 07 35 46.3–.20 37.30N 142.55E 0 3.7
¶600589590
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 16 08 11 03.6–.68 37.26N–.06 142.31E–.06 21 3.8b 30 1-146
JMA IV 16 08 11 01.4–.30 37.34N 142.57E 35 4.0 **¶17201200**
ISCJB IV 16 08 11 02.0–.56 37.31N–.06 142.46E–.05 21 3.7b,3.0s
IDC IV 16 08 11 05.7–3.5 37.22N 142.40E 36–29 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.8km az=165.6.
IDC Error ellipse: s-maj=21.3km s-min=18.2km az=121.0.
IDC IV 16 08 25 32.8–15 37.57N 143.82E 0 3.6,3.5b
¶17201201
IDC Error ellipse: s-maj=330.1km s-min=53.1km az=19.0.
ISC IV 16 08 28 31.4–1.8 37.3N–.10 142.2E–.10 19 9 1-57
JMA IV 16 08 28 24.4–.10 37.21N 142.52E 0 4.2 **¶17201202**
IDC IV 16 08 28 28.1–3.0 37.15N 142.44E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=72.7km s-min=34.6km az=57.0.
ISC IV 16 08 45 50.2–4.1 38.56N–.05 144.07E–.07 12–25 4.0b,3.5s 63 2-128
IDC IV 16 08 45 48.5–.65 38.54N 144.11E 0 4.1,4.0L **¶16505406**
NEIC IV 16 08 45 49.9–.39 38.54N 144.14E 10 4.3b,4.0L
ISCJB IV 16 08 45 50.8–1.5 38.61N–.04 143.95E–.05 26–11 4.0b,3.5s
JMA IV 16 08 45 52.4–.20 38.67N 143.92E 47 4.3,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=14.0km az=103.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.2km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.0km az=137.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 16 10 02 00.1–1.9 36.9N–.10 144.5E–.20 26 3.6b 7 5-66
IDC IV 16 10 01 55.0–1.9 37.13N 144.70E 0 3.8,3.7 **¶17201206**
ISC Event type ke.
IDC Error ellipse: s-maj=47.2km s-min=26.9km az=78.0.
ISC IV 16 11 21 32.6–3.2 34.85N–.05 141.21E–.06 15–21 3.6b 24 0-59
NIED IV 16 11 21 00 34.90N 141.20E 5 3.9W **¶17201211**
IDC IV 16 11 21 31.0–.93 34.85N 141.37E 0 3.8,3.8
JMA IV 16 11 21 33.5–.20 34.87N 141.19E 41–3 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s285.00000°,δ67.00000°,λ13.00000°. NP2:ϕ_s190.00000°,δ78.00000°,λ156.00000°. $M_0$7.25000×10^{14}
IDC Error ellipse: s-maj=27.6km s-min=15.6km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 16 11 43 35.8–.10 38.12N 143.45E 37 3.6
¶600589758
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 16 12 02 31.8–.30 37.81N 143.95E 60 3.7
¶600589764
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC IV 16 12 33 00.9–.75 35.53N–.09 142.6E–.10 59 3.7b 15 3-90
IDC IV 16 12 32 53.1–.79 35.48N 142.91E 0 3.9,3.7 **¶17201220**
ISCJB IV 16 12 32 59.0–.60 35.52N–.08 142.6E–.10 59 3.7s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 16 15 50 37.5–1.9 36.69N–.05 142.01E–.07 5–11 3.4b 30 1-64
NIED IV 16 15 50 00 36.70N 141.90E 23 3.5W **¶17201239**
IDC IV 16 15 50 37.0–.90 36.68N 142.13E 0 3.6,3.6
ISCJB IV 16 15 50 38.1–1.3 36.64N–.04 142.03E–.06 20–9 3.3b,3.6
JMA IV 16 15 50 40.7–.30 36.70N 141.89E 26–4 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s313.00000°,δ11.00000°,λ-118.00000°. NP2:ϕ_s162.00000°,δ80.00000°,λ-85.00000°. $M_0$1.74000×10^{14}
IDC Error ellipse: s-maj=26.1km s-min=17.1km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.3km az=163.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 16 15 54 04.1–.98 37.62N–.07 144.29E–.08 35 3.7b 25 2-73
IDC IV 16 15 53 58.8–.85 37.43N 144.45E 0 3.9,3.8 **¶17201241**
ISCJB IV 16 15 54 01.7–.70 37.59N–.05 144.31E–.05 33 3.7b,3.8
JMA IV 16 15 54 04.2–.30 37.71N 144.23E 46 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=17.0km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.6km az=22.0.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC IV 16 16 54 04.2–2.9 37.77N–.07 144.4E–.20 35 3.4b 19 2-62
JMA IV 16 16 54 04.6–.20 37.85N 144.20E 32 3.7 **¶17201246**
IDC IV 16 16 54 15.8–2.3 37.30N 143.06E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=47.0km s-min=31.7km az=70.0.
JMA IV 16 17 24 25.4–.50 35.55N 142.69E 0 3.5
¶600590027
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 16 18 49 39.7–1.2 37.78N–.08 143.8E–.10 35 3.3b 21 2-62
NIED IV 16 18 49 00 37.90N 143.70E 35 3.6W **¶17201251**
IDC IV 16 18 49 34.3–1.2 37.77N 144.09E 0 3.7,3.7L
ISCJB IV 16 18 49 37.5–.85 37.77N–.07 143.84E–.08 33 3.4b,3.0s
JMA IV 16 18 49 38.9–.30 37.92N 143.74E 43 3.7,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ43.00000°,λ-151.00000°. NP2:ϕ_s226.00000°,δ71.00000°,λ-51.00000°. $M_0$3.13000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=20.4km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=9.3km az=13.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA IV 16 19 27 22.0–.20 38.83N 144.20E 43 3.7
¶600590117
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 16 19 52 41.5–1.8 36.10N–.07 142.5E–.10 18 10 1-60
NIED IV 16 19 52 00 36.40N 143.40E 5 3.6W **¶17201255**
JMA IV 16 19 52 32.2–.50 36.36N 143.44E 40 3.8
ISCJB IV 16 19 52 39.7–1.4 36.11N–.06 142.5E–.10 18 3.7b
IDC IV 16 19 52 40.6–3.1 35.92N 142.42E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ20.00000°,λ-58.00000°. NP2:ϕ_s190.00000°,δ73.00000°,λ-101.00000°. $M_0$2.48000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=4.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=8.3km az=166.3.
IDC Error ellipse: s-maj=53.9km s-min=39.8km az=28.0.
ISC IV 16 20 36 47.9–.34 36.87N–.03 143.90E–.03 25–1 5.8b,4.9s 1922 2-164
NIED IV 16 20 36 00 36.90N 143.80E 8 5.4W,4.9s **¶16442382**
IDC IV 16 20 36 44.0–.34 36.88N 144.03E 0 5.4,5.3
GCMT IV 16 20 36 46.3–.10 36.95N 143.92E 12 5.5W,5.3
NEIC IV 16 20 36 46.3–1.2 36.88N 143.92E 15–7 5.8b,5.5W
ISCJB IV 16 20 36 47.9–.07 36.80N–.02 143.94E–.01 36 5.7b,5.0s
MOS IV 16 20 36 47.7–.84 37.14N 143.93E 25 5.9b,5.0s
JMA IV 16 20 36 48.1–.30 36.94N 143.76E 54 5.4,5.0s
BJI IV 16 20 36 49.2 37.14N 143.43E 22 5.5b,5.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ31.00000°,λ-95.00000°. NP2:ϕ_s243.00000°,δ60.00000°,λ-87.00000°. $M_0$1.54000×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=100.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s91,c176; s119,c304;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.75±.02 $M_{\theta\theta}$1.41±.02; $M_{\phi\phi}$0.34±.02; $M_{r\theta}$0.42±.04; $M_{\theta\phi}$0.81±.01; $M_{\phi r}$0.91±.05; Best double couple: NP1:ϕ_s225.00000°,δ59.00000°,λ-108.00000°. NP2:ϕ_s78.00000°,δ35.00000°,λ-63.00000°. Principal axes: T 2.0230,Plg13.0000°,Azm328.0000°; N 0.0750,Plg15.0000°,Azm235.0000° ; P -2.0960,Plg70.0000°,Azm96.0000° $M_0$2.06000×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.7km s-min=1.9km az=151.0. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.62 $M_{\theta\theta}$1.51 $M_{\phi\phi}$0.11 $M_{r\theta}$0.40 $M_{\theta\phi}$0.96 $M_{\phi r}$0.59 Best double couple: NP1:ϕ_s77.00000°,δ37.00000°,λ-68.00000°. NP2:ϕ_s230.00000° ,δ56.00000°,λ-106.00000°. Principal axes: T 2.1000,Plg10.0000°,Azm332.0000° ; N -0.3000,Plg13.0000°,Azm239.0000°; P -1.8100,Plg74.0000°,Azm97.0000° $M_0$2.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.5km az=163.3.
MOS Error ellipse: s-maj=5.5km s-min=3.5km az=109.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 16 20 48 16.0–.86 35.78N–.06 142.13E–.08 23 3.7b 25 1-76
IDC IV 16 20 48 12.6–.92 35.75N 142.09E 0 3.8,3.8 **¶17201256**
ISCJB IV 16 20 48 13.3–.66 35.78N–.05 142.24E–.06 23 3.7b,3.8
JMA IV 16 20 48 14.3–.30 35.87N 142.21E 61 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=16.7km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.6km az=27.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 16 21 25 53.2–1.8 38.0N–.10 142.3E–.10 24 7 1-58
IDC IV 16 21 25 45.3–3.2 38.60N 142.86E 0 3.4,3.2b **¶17201262**
ISCJB IV 16 21 25 52.7–1.5 37.9N–.10 142.3E–.10 24 3.0b,3.2b
JMA IV 16 21 25 53.7–.30 37.99N 142.32E 35 3.5,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=73.8km s-min=35.3km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=13.5km az=156.7.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 16 22 41 28.0–1.7 36.26N–.06 142.2E–.10 19 16 1-60
ISCJB IV 16 22 41 25.2–1.4 36.32N–.06 142.4E–.10 19 3.6b,3.6s **¶17201269**
IDC IV 16 22 41 25.0–4.5 36.26N 142.37E 0 3.8b,3.8
JMA IV 16 22 41 27.1–.30 36.31N 142.27E 45 3.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=8.4km az=178.6.
IDC Error ellipse: s-maj=77.8km s-min=33.2km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 17 01 02 25.3–2.1 37.74N–.05 143.80E–.05 3–12 4.5b,3.7s 203 2-150
NIED IV 17 01 02 00 37.80N 143.70E 5 4.2W,3.7s **¶16447738**
IDC IV 17 01 02 24.4–.55 37.64N 143.88E 0 4.3,4.2
ISCJB IV 17 01 02 25.7–1.1 37.74N–.03 143.69E–.03 13–7 4.4b,3.7s
MOS IV 17 01 02 27.7–1.5 37.78N 143.81E 29 4.7b,3.7s
NEIC IV 17 01 02 27.5–2.3 37.62N 143.82E 17–14 4.6b,3.7s
JMA IV 17 01 02 27.1–.30 37.75N 143.72E 46 4.3,3.7s
BJI IV 17 01 02 27.2 38.02N 143.85E 22 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ23.00000°,λ-83.00000°. NP2:ϕ_s198.00000°,δ67.00000°,λ-93.00000°. $M_0$2.63000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=12.3km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.4km az=168.0.
MOS Error ellipse: s-maj=8.3km s-min=5.7km az=89.9.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=3.8km az=147.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 17 01 13 25.5–.80 34.70N–.05 141.37E–.07 27 3.6b 25 0-66
IDC IV 17 01 13 22.0–.87 34.79N 141.70E 0 3.8,3.7 **¶17201273**
ISCJB IV 17 01 13 24.0–.62 34.78N–.04 141.51E–.07 27 3.6b,3.3s
JMA IV 17 01 13 24.6–.40 34.75N 141.41E 46–3 3.2,3.3s

ISC Event type ke.
IDC Error ellipse: s-maj=24.4km s-min=17.2km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.6km az=164.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 17 01 30 28.7–.86 37.77N–.06 143.77E–.08 35 4.0b 44 2-70
NIED IV 17 01 30 00 37.70N 143.70E 5 3.8W **¶16545155**
IDC IV 17 01 30 23.6–.97 37.64N 143.91E 0 3.9,3.9L
NEIC IV 17 01 30 25.4–3.4 37.70N 143.88E 12–20 4.2b,3.9L
ISCJB IV 17 01 30 26.6–.52 37.71N–.04 143.72E–.05 33 4.0b,3.9L
JMA IV 17 01 30 26.6–.20 37.73N 143.71E 46 3.7,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ21.00000°,λ-96.00000°. NP2:ϕ_s199.00000°,δ69.00000°,λ-88.00000°. $M_0$6.35000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=17.9km az=93.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=6.9km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=156.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 01 40 19.0–.00 37.1N–.10 143.3E–.10 35 4.0b 17 4-83
IDC IV 17 01 40 13.5–.84 37.02N 143.36E 0 4.1,3.9 **¶16545156**
ISCJB IV 17 01 40 16.5–.75 37.0N–.10 143.3E–.10 33 4.0b,3.9
NEIC IV 17 01 40 18.9–.53 37.06N 143.26E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=18.5km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=13.3km az=43.6.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=9.5km az=126.0.
ISC IV 17 01 54 21.3–.43 39.98N–.04 143.50E–.05 26–2 4.6b,4.2s 276 1-141
IDC IV 17 01 54 17.1–.59 39.92N 143.61E 0 4.4,4.3 **¶16442400**
ISCJB IV 17 01 54 18.6–1.1 39.95N–.03 143.58E–.05 16–7 4.5b,4.1s
JMA IV 17 01 54 19.0–.20 40.01N 143.57E 18 4.5,4.1s
BJI IV 17 01 54 22.4 39.98N 142.97E 23 4.8b,4.7b
MOS IV 17 01 54 23.4–.89 40.15N 143.03E 30 4.8b,4.7b
NEIC IV 17 01 54 27.3–2.4 40.31N 142.38E 24–17 4.6b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=11.5km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=41.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=5.1km az=115.9.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=147.0.
ISC IV 17 02 55 57.9–.57 39.95N–.04 143.56E–.05 20–6 4.6s,4.4b 178 1-87
IDC IV 17 02 55 54.2–.62 39.93N 143.60E 0 4.3,4.1 **¶16442404**
JMA IV 17 02 55 55.4–.40 39.98N 143.60E 16 4.5,4.1
ISCJB IV 17 02 55 55.6–.96 39.97N–.03 143.54E–.04 16–6 4.4s,4.3b
BJI IV 17 02 55 57.4 39.93N 143.24E 21 4.9b,4.5b
MOS IV 17 02 55 57.3–1.0 40.00N 143.54E 30 4.6b,4.5b
NEIC IV 17 02 55 58.4–1.9 40.02N 143.49E 21–13 4.5b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=13.8km az=135.0.
JMA Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=35.2.
MOS Error ellipse: s-maj=8.4km s-min=5.6km az=103.3.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=121.0.
ISC IV 17 02 59 22.0–.51 39.44N–.04 143.71E–.05 11 4.4b,4.4s 156 1-154
JMA IV 17 02 59 17.7–.20 39.41N 144.02E 19 4.7,4.4s **¶602945435**
ISCJB IV 17 02 59 19.8–.38 39.35N–.04 143.79E–.05 11 4.4s,4.3b
IDC IV 17 02 59 20.3–.75 39.37N 143.69E 0 4.2,4.2
NEIC IV 17 02 59 25.9–.73 39.41N 143.61E 36–6 4.5b,4.2
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.1km az=139.5.
IDC Error ellipse: s-maj=17.9km s-min=14.4km az=126.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=123.0.
ISC IV 17 02 59 51.6–.45 39.92N–.05 143.74E–.06 6 4.6b,4.0s 198 2-150
ISCJB IV 17 02 59 50.2–.32 39.89N–.04 143.58E–.06 6 4.5b,4.2s **¶17201275**
IDC IV 17 02 59 50.6–.64 39.89N 143.60E 0 4.5,4.4
MOS IV 17 02 59 52.9–1.1 39.90N 143.66E 26 4.9b,4.4
NEIC IV 17 02 59 55.6–1.6 39.86N 143.54E 32–11 4.7b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.1km az=41.2.
IDC Error ellipse: s-maj=15.9km s-min=14.0km az=112.0.
MOS Error ellipse: s-maj=9.2km s-min=5.8km az=98.9.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.3km az=124.0.
ISC IV 17 03 25 32.0–.87 37.76N–.06 144.71E–.07 35 3.7b 46 3-75
IDC IV 17 03 25 26.7–.99 37.56N 144.90E 0 3.9L,3.8 **¶16553306**
ISCJB IV 17 03 25 30.3–.60 37.75N–.05 144.66E–.05 33 3.8b,3.8
NEIC IV 17 03 25 31.4–.65 37.57N 144.83E 35 4.0b,3.8
JMA IV 17 03 25 32.0–.30 37.74N 144.54E 54 4.4,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=20.6km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.8km az=155.6.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=10.2km az=117.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 17 06 17 08.9–.70 38.25N–.06 144.00E–.07 35 4.0b 51 2-75
NIED IV 17 06 17 00 38.30N 143.90E 5 3.9W **¶16577844**
IDC IV 17 06 17 03.1–.73 38.11N 144.05E 0 3.9,3.8
NEIC IV 17 06 17 05.0–.38 38.16N 144.06E 10 4.7b,3.8
ISCJB IV 17 06 17 06.4–.50 38.18N–.05 144.03E–.05 33 3.9b,3.2s
JMA IV 17 06 17 06.1–.20 38.29N 143.94E 18 3.8,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ33.00000°,λ-96.00000°. NP2:ϕ_s198.00000°,δ57.00000°,λ-86.00000°. $M_0$8.33000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=15.6km az=155.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.8km az=158.4.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 17 06 22 47.0–.96 37.05N–.07 143.27E–.07 35 3.4b 23 2-63
IDC IV 17 06 22 41.4–1.0 36.83N 143.35E 0 3.9L,3.6 **¶17201289**
ISCJB IV 17 06 22 44.6–.72 37.02N–.05 143.27E–.05 33 3.4b,3.6
JMA IV 17 06 22 45.9–.20 37.05N 143.20E 50 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.8km s-min=20.6km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.1km az=12.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 17 06 36 10.2–.73 38.25N–.06 144.10E–.07 14 3.9b 50 2-83
IDC IV 17 06 36 07.3–.78 38.11N 144.19E 0 3.9,3.8 **¶16577845**
ISCJB IV 17 06 36 08.7–.52 38.24N–.05 144.07E–.04 14 3.8b,3.8
NEIC IV 17 06 36 09.0–.46 38.17N 144.22E 10 4.2b,3.8
JMA IV 17 06 36 11.4–.20 38.20N 144.00E 44 4.0,3.8
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=17.0km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=164.1.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.2km az=134.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 17 06 47 04.3–.30 36.18N 142.98E 41 3.5
¶600590548
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 17 07 23 43.2–2.2 39.40N–.07 143.1E–.10 47–21 3.2b 26 1-63
JMA IV 17 07 23 39.2–.20 39.37N 143.22E 16–3 3.8 **¶17201292**
ISCJB IV 17 07 23 40.5–1.2 39.36N–.06 143.29E–.09 40–12 3.7s,3.4b
IDC IV 17 07 23 45.7–3.0 39.51N 142.91E 70–28 3.8s,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.5km az=168.7.
IDC Error ellipse: s-maj=30.7km s-min=17.0km az=107.0.
ISC IV 17 08 44 49.4–1.0 37.8N–.10 144.4E–.20 35 3.5b 10 5-68
IDC IV 17 08 44 44.1–.92 37.71N 144.47E 0 3.7,3.6 **¶17201296**
ISCJB IV 17 08 44 46.8–.79 37.7N–.10 144.5E–.10 33 3.5s,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 09 17 22.0–1.9 38.93N–.10 144.5E–.10 19 25 2-63
IDC IV 17 09 17 13.9–15 39.56N 144.84E 0 3.7,3.7L **¶17201300**
JMA IV 17 09 17 24.8–.20 38.73N 144.38E 28 3.5,3.7L

ISC Event type ke.
IDC Error ellipse: s-maj=346.4km s-min=61.5km az=2.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 17 10 22 01.6–.65 36.99N–.06 142.43E–.05 9 3.5b 28 1-90
ISCJB IV 17 10 21 59.6–.49 36.95N–.05 142.55E–.05 9 3.6b **¶17201305**
IDC IV 17 10 22 00.4–.72 36.99N 142.57E 0 4.0L,3.8
JMA IV 17 10 22 00.4–.30 37.05N 142.54E 10 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=12.6.
IDC Error ellipse: s-maj=22.2km s-min=15.5km az=111.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 17 13 33 19.6–1.1 38.03N–.09 143.9E–.10 35 3.3b 10 5-62
IDC IV 17 13 33 14.4–1.1 37.95N 144.00E 0 3.8L,3.7 **¶17201323**
ISCJB IV 17 13 33 17.2–.86 38.06N–.07 143.9E–.10 33 3.4b,2.8s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 13 37 20.9–2.1 38.35N–.07 144.5E–.10 45–22 3.5b 30 2-87
IDC IV 17 13 37 14.1–.94 38.17N 144.77E 0 3.7,3.5L **¶17201324**
ISCJB IV 17 13 37 18.8–1.2 38.27N–.05 144.52E–.07 47–11 3.5b,3.5L
JMA IV 17 13 37 18.7–.20 38.26N 144.46E 35 4.3,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=18.8km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.1km az=37.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 17 14 07 34.2–.67 37.36N–.06 144.33E–.07 35 4.1b 72 3-80
NIED IV 17 14 07 00 37.30N 144.20E 8 4.0W **¶16529596**
IDC IV 17 14 07 28.4–.67 37.11N 144.54E 0 4.1,4.0
MOS IV 17 14 07 31.7–1.9 37.37N 144.51E 35 4.5b,4.0
NEIC IV 17 14 07 31.1–5.1 37.14N 144.50E 17–31 4.4b,4.0
ISCJB IV 17 14 07 32.1–.42 37.28N–.04 144.22E–.04 33 4.0b,2.8s
JMA IV 17 14 07 32.4–.30 37.27N 144.19E 57 4.3,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ27.00000°,λ-81.00000°. NP2:ϕ_s193.00000°,δ63.00000°,λ-95.00000°. $M_0$1.28000×10^{15}
IDC Error ellipse: s-maj=18.4km s-min=14.2km az=131.0.
MOS Error ellipse: s-maj=11.5km s-min=8.1km az=85.5.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=9.2km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=155.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 17 15 43 14.6–1.1 37.11N–.08 143.9E–.10 35 3.4b 14 5-61
IDC IV 17 15 43 10.0–1.0 36.98N 144.08E 0 3.8,3.6 **¶17201333**
ISCJB IV 17 15 43 12.8–.84 36.95N–.08 143.88E–.08 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 15 58 08.3–1.3 38.69N–.09 144.1E–.10 14 3.5b 8 5-63
ISCJB IV 17 15 58 05.9–1.2 38.6N–.10 144.1E–.20 14 3.5b,3.5s **¶17201336**
IDC IV 17 15 58 06.0–1.3 38.56N 144.13E 0 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=15.2km az=27.0.
IDC Error ellipse: s-maj=32.6km s-min=22.4km az=109.0.
ISC IV 17 16 53 56.8–1.1 37.7N–.10 144.0E–.20 35 3.3b 9 5-62
IDC IV 17 16 53 51.9–1.3 37.79N 144.13E 0 3.5,3.3b **¶17201343**
ISCJB IV 17 16 53 55.2–1.0 37.69N–.07 143.9E–.20 33 3.3b,3.3b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 17 34 20.3–1.7 37.99N–.04 142.65E–.04 24–12 4.4b,3.4s 150 1-145
NIED IV 17 17 34 00 38.00N 142.60E 17 4.1W,3.4s **¶16447740**
ISCJB IV 17 17 34 16.8–1.1 38.01N–.03 142.65E–.03 10–7 4.3b,3.5s
IDC IV 17 17 34 17.3–.52 38.01N 142.59E 0 4.3,4.2
JMA IV 17 17 34 18.5–.30 38.04N 142.62E 19 4.3,4.2
MOS IV 17 17 34 19.8–.93 38.13N 142.60E 26 4.5b,4.2
BJI IV 17 17 34 20.5 38.04N 142.38E 26 4.7b,4.6b
NEIC IV 17 17 34 20.6–2.0 38.01N 142.61E 24–14 4.6b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ22.00000°,λ-11.00000°. NP2:ϕ_s162.00000°,δ86.00000°,λ-112.00000°. $M_0$1.77000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.7km az=149.9.
IDC Error ellipse: s-maj=14.8km s-min=11.3km az=118.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=6.3km az=90.1.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.6km az=129.0.
ISC IV 17 19 07 02.8–.85 39.49N–.08 143.62E–.08 11 3.7b 26 1-87
JMA IV 17 19 06 58.9–.20 39.51N 143.86E 8 4.3 **¶17201348**
ISCJB IV 17 19 07 00.8–.72 39.47N–.07 143.74E–.08 11 3.6b
IDC IV 17 19 07 01.0–1.0 39.44N 143.64E 0 3.8,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.5km az=153.2.
IDC Error ellipse: s-maj=23.5km s-min=20.1km az=120.0.
ISC IV 17 23 37 29.5–1.6 36.16N–.09 142.2E–.10 23 3.4b 15 1-56
IDC IV 17 23 37 26.2–3.0 36.19N 142.29E 0 3.6,3.5 **¶17201371**
ISCJB IV 17 23 37 27.3–1.3 36.16N–.09 142.3E–.10 23 3.5s,3.4b
JMA IV 17 23 37 28.7–.30 36.17N 142.19E 72 3.2,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=82.8km s-min=29.4km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=10.2km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 18 00 40 50.8–.20 37.83N 143.88E 37 3.8
¶600591141
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 01 21 43.8–.73 35.52N–.05 142.79E–.07 59 3.7b 40 2-90
IDC IV 18 01 21 36.2–.76 35.38N 142.97E 0 3.9,3.7 **¶17201377**
JMA IV 18 01 21 39.8–.20 35.54N 142.81E 95 3.4,3.7
ISCJB IV 18 01 21 41.8–.55 35.48N–.04 142.71E–.05 59 3.7b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 18 03 53 39.4–2.2 37.22N–.05 143.61E–.05 2–13 4.6b,3.7s 200 2-145
NIED IV 18 03 53 00 37.20N 143.50E 5 4.4W,3.7s **¶16449033**
ISCJB IV 18 03 53 39.9–1.1 37.16N–.03 143.51E–.03 15–7 4.5b,3.7s
IDC IV 18 03 53 39.2–.52 37.10N 143.63E 0 4.5,4.3L
NEIC IV 18 03 53 40.8–.22 37.15N 143.60E 10 4.6b,4.3L
BJI IV 18 03 53 41.7 37.45N 143.65E 27 4.7b,4.6b
JMA IV 18 03 53 42.4–.20 37.20N 143.47E 49 4.6,4.6b
MOS IV 18 03 53 42.3–1.3 37.27N 143.55E 30 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ36.00000°,λ-97.00000°. NP2:ϕ_s212.00000°,δ54.00000°,λ-85.00000°. $M_0$3.93000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.9km az=155.4.
IDC Error ellipse: s-maj=15.0km s-min=12.6km az=114.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=143.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.3km az=105.0.
JMA IV 18 03 55 27.7–.30 37.22N 143.44E 47 3.8
¶600591244
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 18 03 57 51.0–.10 38.35N 143.98E 16 3.6
¶17201387
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 18 03 58 44.8–1.1 38.62N–.06 143.83E–.08 14 3.7b 26 2-88
NIED IV 18 03 58 00 38.60N 143.60E 5 3.8W **¶600591246**
IDC IV 18 03 58 42.2–1.3 38.40N 144.14E 0 3.8,3.7
ISCJB IV 18 03 58 44.2–.91 38.65N–.04 143.76E–.07 14 3.7b,3.7
JMA IV 18 03 58 45.9–.10 38.58N 143.59E 10 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ32.00000°,λ-25.00000°. NP2:ϕ_s182.00000°,δ77.00000°,λ-119.00000°. $M_0$6.34000×10^{14}
IDC Error ellipse: s-maj=37.3km s-min=24.1km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.3km az=26.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 18 04 04 04.3–1.1 37.21N–.05 143.46E–.08 35 3.5b 35 2-89
IDC IV 18 04 03 59.3–1.3 37.01N 143.62E 0 3.9,3.8L **¶17201388**
ISCJB IV 18 04 04 02.3–.75 37.19N–.04 143.44E–.06 33 3.6b,3.5s
JMA IV 18 04 04 02.3–.30 37.23N 143.44E 43 4.0,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=33.2km s-min=24.9km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.1km az=0.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 04 05 34.0–.69 37.25N–.08 143.58E–.08 35 4.0b 24 4-118
IDC IV 18 04 05 28.4–.66 37.11N 143.68E 0 4.1,4.1L **¶603438475**
ISCJB IV 18 04 05 31.6–.57 37.13N–.08 143.53E–.07 33 3.9b,4.1L
ISC Event type ke.
ISCJB Event type ke.
JMA IV 18 06 23 20.1–.20 38.53N 144.39E 45 3.5
¶600591341
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 18 06 37 47.2–1.0 38.10N–.05 143.72E–.06 19 4.0b 33 2-62
JMA IV 18 06 37 42.2–.10 37.89N 143.97E 0 4.0 **¶16631128**
IDC IV 18 06 37 46.2–2.0 38.14N 143.28E 0 3.9,3.8b
NEIC IV 18 06 37 51.1–1.7 38.23N 143.43E 38–13 4.3b,3.8b
ISC Event type se.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=53.6km s-min=23.8km az=67.0.
NEIC Event type se. Error ellipse: s-maj=23.6km s-min=11.9km az=107.0.
ISC IV 18 07 39 14.1–.87 37.87N–.07 144.35E–.07 35 3.7b 34 2-75
NIED IV 18 07 39 00 37.90N 144.30E 5 3.9W **¶17201400**
IDC IV 18 07 39 08.6–1.0 37.67N 144.60E 0 3.9,3.8L
ISCJB IV 18 07 39 12.4–.61 37.89N–.05 144.33E–.04 33 3.6b,3.8L
JMA IV 18 07 39 12.8–.20 37.89N 144.26E 36 3.7,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ15.00000°,λ-62.00000°. NP2:ϕ_s158.00000°,δ77.00000°,λ-97.00000°. $M_0$7.01000×10^{14}
IDC Error ellipse: s-maj=29.2km s-min=20.4km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.1km az=0.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 09 10 47.3–.61 36.33N–.05 143.06E–.07 29 3.9b,3.1s 51 2-146
NIED IV 18 09 10 00 36.40N 142.90E 5 3.8W,3.1s **¶16505422**
IDC IV 18 09 10 42.7–.63 36.21N 143.25E 0 4.0,4.0
ISCJB IV 18 09 10 45.6–.44 36.35N–.03 143.05E–.04 29 3.8b,3.1s
JMA IV 18 09 10 47.4–.20 36.36N 142.95E 68 3.6,3.1s
NEIC IV 18 09 10 48.1–.41 36.31N 143.23E 35 4.2b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ30.00000°,λ-96.00000°. NP2:ϕ_s225.00000°,δ60.00000°,λ-86.00000°. $M_0$6.63000×10^{14}
IDC Error ellipse: s-maj=18.4km s-min=15.1km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.2km az=139.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.6km az=116.0.
ISC IV 18 10 05 57.0–1.2 34.76N–.07 141.7E–.10 27 3.6b 11 2-55
ISCJB IV 18 10 05 54.5–1.1 34.80N–.06 141.8E–.10 27 3.7b **¶17201404**
IDC IV 18 10 05 54.3–1.8 34.81N 141.52E 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.6km az=176.8.
IDC Error ellipse: s-maj=40.7km s-min=20.0km az=86.0.
ISC IV 18 10 19 10.2–.92 36.19N–.09 142.62E–.09 18 3.4b 13 4-146
IDC IV 18 10 19 07.4–.98 36.24N 142.66E 0 3.8,3.6 **¶17201406**
ISCJB IV 18 10 19 08.1–.86 36.14N–.08 142.65E–.08 18 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 18 11 32 46.1–.48 36.25N–.05 143.70E–.06 35 4.3b,3.0s 125 2-145
NIED IV 18 11 32 00 36.30N 143.50E 5 4.1W,3.0s **¶16447746**
IDC IV 18 11 32 40.6–.54 36.17N 143.91E 0 4.4,4.3
MOS IV 18 11 32 43.3–1.7 36.41N 143.89E 27 4.6b,4.3
NEIC IV 18 11 32 43.0–2.8 36.14N 143.87E 15–17 4.4b,4.3
BJI IV 18 11 32 43.1 36.56N 144.01E 30 4.8b,4.6b
ISCJB IV 18 11 32 44.2–.31 36.24N–.03 143.66E–.03 33 4.2b,3.0s
JMA IV 18 11 32 45.5–.20 36.29N 143.52E 94 4.3,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ28.00000°,λ-86.00000°. NP2:ϕ_s199.00000°,δ62.00000°,λ-92.00000°. $M_0$1.56000×10^{15}
IDC Error ellipse: s-maj=15.8km s-min=13.1km az=114.0.
MOS Error ellipse: s-maj=9.5km s-min=5.9km az=104.6.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.8km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.2km az=155.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 18 12 31 07.1–.82 38.58N–.06 143.83E–.07 14 3.7b 40 2-75
IDC IV 18 12 31 04.3–.82 38.39N 144.06E 0 3.8,3.7L **¶17201412**
ISCJB IV 18 12 31 05.5–.59 38.57N–.04 143.82E–.05 14 3.7b,3.0s
JMA IV 18 12 31 07.2–.20 38.58N 143.80E 37 4.0,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=15.4km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=151.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 18 13 31 29.1–1.1 36.81N–.05 143.80E–.08 35 3.5b 29 2-89
IDC IV 18 13 31 23.9–1.4 36.75N 144.10E 0 3.9,3.8 **¶17201414**
ISCJB IV 18 13 31 28.1–.83 36.82N–.04 143.74E–.06 33 3.5b,3.8
JMA IV 18 13 31 28.5–.30 36.87N 143.76E 48 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=39.7km s-min=26.4km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.3km az=157.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 18 14 56 53.9–1.5 38.59N–.09 144.4E–.20 29 3.6b 10 5-63
IDC IV 18 14 56 49.6–1.3 38.50N 144.52E 0 3.7,3.6 **¶16707309**
ISCJB IV 18 14 56 51.9–1.1 38.60N–.07 144.3E–.20 29 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 18 14 57 23.2–1.5 38.0N–.10 144.2E–.20 35 4.0b 10 4-62
IDC IV 18 14 57 18.2–2.2 37.88N 144.24E 0 3.9,3.8 **¶17201419**
ISCJB IV 18 14 57 20.9–1.1 37.89N–.10 144.2E–.20 33 4.0b,3.8
NEIC IV 18 14 57 23.3–.84 37.94N 144.14E 35 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=66.0km s-min=23.7km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=14.0km az=178.9.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=11.3km az=90.0.
JMA IV 18 15 05 22.7–.20 38.66N 144.23E 41 3.7
¶600591693
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 18 15 33 33.8–.89 36.66N–.06 142.07E–.07 19 3.5b 25 1-64
IDC IV 18 15 33 30.9–.87 36.53N 142.23E 0 3.7,3.6 **¶17201422**
ISCJB IV 18 15 33 31.6–.62 36.53N–.05 142.22E–.06 19 3.5b,3.6
JMA IV 18 15 33 32.5–.30 36.64N 142.15E 20 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.0km s-min=16.1km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.2km az=140.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 18 17 18 43.5–1.2 37.62N–.08 144.34E–.08 35 3.4b 20 3-62
IDC IV 18 17 18 37.9–1.2 37.44N 144.57E 0 3.6,3.4 **¶17201430**
ISCJB IV 18 17 18 42.6–1.1 37.71N–.07 144.32E–.07 33 3.4b,3.4
JMA IV 18 17 18 44.3–.30 37.80N 144.19E 28 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=35.5km s-min=23.8km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.2km az=7.7.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC IV 18 17 46 41.4–1.4 37.78N–.07 142.68E–.09 24 3.4b 20 1-62
IDC IV 18 17 46 36.9–2.9 37.64N 143.12E 0 3.5,3.4b **¶17201435**
ISCJB IV 18 17 46 39.5–.97 37.72N–.06 142.75E–.09 24 3.3b,3.4b
JMA IV 18 17 46 39.2–.40 37.74N 142.72E 19–5 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=73.7km s-min=33.2km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.2km az=169.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 18 18 45 33.1–.60 39.05N–.06 143.63E–.06 20 3.9b 43 1-145
ISCJB IV 18 18 45 30.7–.45 38.95N–.04 143.70E–.05 20 3.9b,3.0s **¶600591813**

NEIC IV 18 18 45 33.8–.80 38.99N 143.64E 27–5 4.3b,3.0s
IDC IV 18 18 45 34.0–.83 38.97N 143.59E 28–4 3.8,3.8
JMA IV 18 18 45 48.0–.30 39.17N 142.90E 26 3.9,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.6km az=170.8.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.2km az=115.0.
IDC Error ellipse: s-maj=19.6km s-min=13.4km az=118.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA IV 18 18 54 08.8–.20 38.68N 144.07E 24 3.6
NIED IV 18 18 54 00 38.70N 144.10E 5 3.6W ¶600591822
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S16.00000°,δ24.00000°,λ-84.00000°. NP2:ϕ_S190.00000°,δ66.00000°,λ-93.00000°. $M_0$3.32000×10^{14}
ISC IV 18 19 10 49.4–.84 38.35N–.07 144.48E–.08 29 4.0b 39 2-72
IDC IV 18 19 10 44.4–.88 38.27N 144.65E 0 4.0,3.9 ¶16587534
NEIC IV 18 19 10 46.8–4.9 38.26N 144.64E 16–30 4.3b,3.9
ISCJB IV 18 19 10 47.0–.56 38.33N–.05 144.51E–.05 29 4.0b,3.9
JMA IV 18 19 10 48.1–.20 38.38N 144.37E 24 4.1,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=16.6km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=10.0km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 18 20 36 45.3–1.6 37.03N–.08 144.1E–.10 35 20 3-57
NIED IV 18 20 36 00 37.00N 143.90E 14 3.6W ¶17201445
IDC IV 18 20 36 39.9–2.2 36.98N 144.20E 0 3.7,3.6
ISCJB IV 18 20 36 43.9–1.1 36.98N–.06 144.04E–.09 33 3.4b,3.6
JMA IV 18 20 36 45.6–.30 37.05N 143.93E 38 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S318.00000°,δ47.00000°,λ-165.00000°. NP2:ϕ_S217.00000°,δ79.00000°,λ-44.00000°. $M_0$3.18000×10^{14}
IDC Error ellipse: s-maj=48.6km s-min=27.2km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.9km az=164.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 18 21 22 58.6–.20 38.40N 144.42E 36 3.7
¶600591949
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC IV 18 21 33 32.4–2.5 35.77N 142.11E 0 3.7,3.5
¶16707339
IDC Error ellipse: s-maj=61.1km s-min=26.7km az=60.0.
IDC IV 18 21 46 18.1–3.3 37.07N 144.71E 0 3.5,3.3
¶17201448
IDC Error ellipse: s-maj=81.1km s-min=37.6km az=57.0.
ISC IV 18 23 14 47.7–1.2 36.3N–.20 143.2E–.10 35 3.5b 10 2-75
IDC IV 18 23 14 42.3–1.1 36.29N 143.33E 0 3.7,3.5 ¶16505431
ISCJB IV 18 23 14 45.3–.94 36.2N–.10 143.3E–.10 33 3.5b,3.1s
JMA IV 18 23 14 59.9–.40 36.36N 141.95E 38 2.5,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=32.5km s-min=22.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=15.1km az=8.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA IV 18 23 28 01.5–.20 38.17N 144.47E 35 3.6
¶600592043
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 18 23 30 54.2–1.1 35.85N–.10 142.87E–.08 35 3.6b 17 2-64
JMA IV 18 23 30 49.2–.30 35.65N 142.81E 22 3.8 ¶17201454
ISCJB IV 18 23 30 50.6–.82 35.71N–.07 142.92E–.07 33 3.6b
IDC IV 18 23 30 50.3–1.0 36.06N 142.83E 0 3.7,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.6km az=25.2.
IDC Error ellipse: s-maj=33.0km s-min=21.6km az=114.0.
JMA IV 19 00 09 41.1–.30 39.16N 143.72E 27 3.5
¶600592085
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 19 01 26 54.0–.92 38.37N–.09 144.54E–.08 29 3.5b 28 2-75
IDC IV 19 01 26 49.5–1.2 38.30N 144.66E 0 3.9L,3.8 ¶17201458
ISCJB IV 19 01 26 52.4–.72 38.34N–.07 144.53E–.05 29 3.9s,3.5b
JMA IV 19 01 26 53.8–.20 38.38N 144.44E 36 4.2,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=36.9km s-min=21.4km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.8km az=173.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 19 04 04 31.8–.54 37.29N–.04 143.48E–.03 26–3 5.0b,4.7s 812 2-153
NIED IV 19 04 04 00 37.30N 143.50E 5 4.9W,4.7s ¶16446644
IDC IV 19 04 04 27.3–.43 37.14N 143.56E 0 4.9,4.9
ISCJB IV 19 04 04 29.0–.76 37.27N–.02 143.47E–.02 14–4 5.0b,4.6s
BJI IV 19 04 04 28.6 37.29N 143.36E 10 5.2b,4.9b
GCMT IV 19 04 04 30.1–.20 37.28N 143.63E 12 5.0W,4.9b
NEIC IV 19 04 04 30.1–1.6 37.19N 143.49E 14–10 5.0b,4.9b
MOS IV 19 04 04 31.6–.93 37.48N 143.47E 25 5.2b,4.5s
JMA IV 19 04 04 31.7–.30 37.34N 143.46E 41 4.7,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S26.00000°,δ38.00000°,λ-80.00000°. NP2:ϕ_S194.00000°,δ53.00000°,λ-97.00000°. $M_0$2.76000×10^{16}
IDC Error ellipse: s-maj=12.1km s-min=10.8km az=107.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=165.4.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c39; s98,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.57±.07 $M_{\theta\theta}$0.87±.07; $M_{\phi\phi}$2.69±.07; $M_{r\theta}$0.28±.29; $M_{\theta\phi}$1.27±.06; $M_{\phi r}$-0.63±.27; Best double couple: NP1:ϕ_S19.00000°,δ49.00000°,λ-100.00000°. NP2:ϕ_S215.00000°,δ42.00000°,λ-78.00000°. Principal axes: T 3.3710,Plg4.0000°,Azm117.0000°; N 0.2940,Plg8.0000°,Azm26.0000°; P -3.6710,Plg81.0000°,Azm231.0000° $M_0$3.52100×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=2.7km az=138.0.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=107.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 19 04 16 19.4–.86 37.29N–.08 143.46E–.08 35 3.8b 29 2-145
IDC IV 19 04 16 13.3–.83 37.07N 143.48E 0 4.0,4.0L ¶16505437
ISCJB IV 19 04 16 17.6–.71 37.30N–.06 143.47E–.06 33 3.8b,4.0L
JMA IV 19 04 16 17.4–.30 37.29N 143.46E 44 3.9,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=23.8km s-min=19.2km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.3km az=167.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 19 04 45 50.8–.78 38.22N–.07 144.60E–.07 35 3.7b 35 2-87
IDC IV 19 04 45 45.5–.72 38.06N 144.81E 0 4.0,4.0L ¶17201467
JMA IV 19 04 45 48.7–.20 38.25N 144.57E 31 4.2,4.0L
ISCJB IV 19 04 45 49.1–.53 38.21N–.05 144.61E–.04 33 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 19 05 15 32.6–.69 37.29N–.06 143.60E–.07 35 3.9b 37 2-89
IDC IV 19 05 15 26.8–.80 37.15N 143.73E 0 4.1,3.9 ¶600592326
ISCJB IV 19 05 15 30.4–.49 37.25N–.04 143.57E–.05 33 3.9b,3.6s
NEIC IV 19 05 15 30.7–2.6 37.23N 143.67E 23–19 4.1b,3.6s
JMA IV 19 05 15 31.1–.30 37.23N 143.47E 44 4.2,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=17.9km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.3km az=38.6.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.5km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 19 06 54 37.7–.56 33.92N–.07 141.54E–.09 24 4.2b 55 2-152
ISCJB IV 19 06 54 36.6–.52 34.10N–.07 141.58E–.09 24 4.1b ¶17201479
NEIC IV 19 06 54 41.0–1.4 34.07N 141.48E 46–12 4.3b
IDC IV 19 06 54 41.1–2.4 34.07N 141.45E 47–21 4.1,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.5km az=17.6.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=9.4km az=90.0.
IDC Error ellipse: s-maj=21.2km s-min=14.8km az=92.0.
ISC IV 19 07 03 25.6–1.1 38.1N–.10 144.0E–.10 10 3.8b 10 2-75
IDC IV 19 07 03 24.1–.97 38.09N 143.94E 0 3.8,3.6 ¶17201481
JMA IV 19 07 03 29.3–.30 38.36N 142.68E 12 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=20.9km az=101.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA IV 19 07 18 28.3–.20 37.14N 142.43E 18 3.8
¶600592440
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 19 09 27 22.5–2.2 37.19N 143.82E 0 3.8,3.7
¶603308257
IDC Error ellipse: s-maj=53.9km s-min=27.0km az=68.0.
JMA IV 19 09 28 02.6–.20 37.81N 142.02E 31–3 3.5
¶17201485
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 09 50 20.1–.30 37.90N 143.44E 7 3.6
¶600592575
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 19 10 19 40.7–1.6 36.90N–.07 143.3E–.10 35 14 2-61
ISCJB IV 19 10 19 38.9–1.1 36.88N–.05 143.26E–.09 33 3.7b ¶17201491
IDC IV 19 10 19 40.1–8.1 36.26N 143.03E 0 3.7,3.6b
JMA IV 19 10 19 40.3–.10 36.88N 143.15E 55 3.4,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=7.0km az=163.2.
IDC Error ellipse: s-maj=174.8km s-min=34.8km az=29.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 10 27 32.4–.30 37.04N 142.52E 8 3.5
¶600592607
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 19 12 40 25.0–.30 37.05N 142.43E 27 3.5
¶600592768
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 19 14 59 59.7–.20 38.19N 144.46E 44 3.6
¶600592880
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 19 15 05 39.2–1.7 38.25N–.07 144.7E–.10 35 3.6s 20 2-72
NIED IV 19 15 05 00 38.30N 144.50E 8 3.8W ¶17201513
ISCJB IV 19 15 05 37.9–1.2 38.32N–.05 144.69E–.09 33 3.5s,3.4b
JMA IV 19 15 05 39.3–.20 38.29N 144.54E 32 3.9,3.4b
IDC IV 19 15 05 41.8–3.4 37.13N 144.49E 0 3.7,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S11.00000°,δ23.00000°,λ-100.00000°. NP2:ϕ_S201.00000°,δ68.00000°,λ-86.00000°. $M_0$5.81000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.9km az=3.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=82.3km s-min=38.2km az=56.0.
IDC IV 19 15 49 02.6–1.6 37.29N 143.94E 0 3.8,3.6
¶17201518
IDC Error ellipse: s-maj=35.8km s-min=33.3km az=111.0.
ISC IV 19 17 23 47.2–.65 39.52N–.06 143.54E–.06 11 4.0b 46 1-87
ISCJB IV 19 17 23 45.6–.46 39.48N–.04 143.61E–.04 11 3.9b,3.1s ¶16505442
JMA IV 19 17 23 47.8–.10 39.50N 143.55E 24 4.0,3.1s
IDC IV 19 17 23 51.4–2.6 39.48N 143.51E 42–23 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=159.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.9km s-min=14.0km az=125.0.
ISC IV 19 18 27 43.5–2.5 36.34N–.05 142.2E–.10 7–14 3.7b 22 1-56
JMA IV 19 18 27 44.5–.20 36.33N 142.32E 59–5 3.3 ¶600593027
IDC IV 19 18 28 03.5–1.6 34.97N 137.28E 0 3.7,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=36.9km s-min=28.0km az=92.0.
ISC IV 19 18 41 26.3–.67 40.13N–.06 144.36E–.07 34 3.7b 33 2-146
NIED IV 19 18 41 00 40.20N 144.30E 5 3.9W ¶17201533
IDC IV 19 18 41 21.1–.82 40.06N 144.55E 0 3.8,3.7
ISCJB IV 19 18 41 24.7–.57 40.16N–.05 144.32E–.05 34 3.6b,3.1s
JMA IV 19 18 41 24.5–.30 40.15N 144.31E 43 3.7,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S13.00000°,δ25.00000°,λ-65.00000°. NP2:ϕ_S166.00000°,δ67.00000°,λ-101.00000°. $M_0$7.86000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=17.2km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.6km az=157.5.
JMA Error ellipse: s-maj=2.2km s-min=2.5km az=-1.0.
JMA IV 19 18 58 15.6–.30 39.91N 143.30E 9–3 3.6
¶600593055
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 19 20 09 03.7–.30 36.99N 143.98E 42 3.6
¶600593111
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 19 20 24 10.1–.76 37.27N–.07 144.28E–.07 35 4.2b 46 3-77
NIED IV 19 20 24 00 37.30N 144.20E 5 3.7W ¶16591750
IDC IV 19 20 24 04.5–.79 37.13N 144.42E 0 4.0,3.9L
ISCJB IV 19 20 24 08.3–.47 37.23N–.05 144.25E–.04 33 4.1b,3.9L
NEIC IV 19 20 24 08.6–4.0 37.19N 144.40E 25–29 4.7b,3.9L
JMA IV 19 20 24 09.2–.20 37.32N 144.19E 41 4.0,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S16.00000°,δ19.00000°,λ-88.00000°. NP2:ϕ_S193.00000°,δ71.00000°,λ-91.00000°. $M_0$4.51000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=17.2km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.5km az=171.8.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=9.4km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 19 20 48 32.0–1.0 37.15N–.05 142.06E–.06 19 4.0b 35 1-89
NIED IV 19 20 48 00 37.20N 142.10E 29 3.8W ¶16631145
IDC IV 19 20 48 22.7–11 36.79N 143.11E 0 4.0L,3.8
ISCJB IV 19 20 48 31.3–.69 37.27N–.05 142.23E–.06 19 4.0b,4.0s
JMA IV 19 20 48 32.1–.30 37.23N 142.14E 24–5 4.3,4.0s
NEIC IV 19 20 48 35.8–.79 37.23N 142.26E 54–5 4.0b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S297.00000°,δ65.00000°,λ171.00000°. NP2:ϕ_S30.00000°,δ82.00000°,λ25.00000°. $M_0$4.83000×10^{14}
IDC Error ellipse: s-maj=193.7km s-min=75.4km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.9km az=41.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=8.1km az=120.0.
ISC IV 19 21 36 22.6–2.9 36.63N–.04 142.46E–.06 3–17 4.1b 81 1-146
NIED IV 19 21 36 00 36.60N 142.50E 23 4.0W ¶16505445
ISCJB IV 19 21 36 22.5–1.3 36.62N–.03 142.51E–.05 16–9 4.2b,3.2s
IDC IV 19 21 36 22.0–.72 36.58N 142.41E 0 4.0,3.9
JMA IV 19 21 36 22.5–.30 36.64N 142.46E 14–5 4.1,3.9
NEIC IV 19 21 36 25.9–1.9 36.60N 142.46E 26–13 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S187.00000°,δ47.00000°,λ-51.00000°. NP2:ϕ_S317.00000°,δ55.00000°,λ-124.00000°. $M_0$1.15000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=9.1.
IDC Error ellipse: s-maj=19.3km s-min=15.4km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.3km az=135.0.
ISC IV 19 22 10 29.6–2.7 37.28N–.05 142.01E–.08 13–16 3.4b 24 1-57
NIED IV 19 22 10 00 37.30N 141.90E 35 3.5W ¶17201552
IDC IV 19 22 10 27.5–1.3 37.15N 142.19E 0 3.6,3.5
ISCJB IV 19 22 10 30.2–1.6 37.26N–.04 142.04E–.07 29–11 3.3b,3.5
JMA IV 19 22 10 32.5–.20 37.30N 141.91E 34–3 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S192.00000°,δ21.00000°,λ-15.00000°. NP2:ϕ_S296.00000°,δ85.00000°,λ-110.00000°. $M_0$2.32000×10^{14}
IDC Error ellipse: s-maj=31.3km s-min=19.7km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.8km az=12.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 19 23 04 50.4–.63 38.06N–.06 143.57E–.06 30–4 3.8b 48 2-78
NIED IV 19 23 04 00 38.10N 143.50E 5 4.0W ¶16505446
JMA IV 19 23 04 48.6–.10 38.07N 143.52E 29 3.9

IDC IV 19 23 04 50.8–.57 37.98N 143.67E 35–4 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ17.00000°,λ-50.00000°. NP2:ϕ_s181.00000°,δ77.00000°,λ-101.00000°. M_o1.01000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.0km s-min=12.6km az=114.0.
ISC IV 19 23 58 04.3–2.2 39.1N–.10 144.2E–.10 41–22 3.4b 15 2-75
IDC IV 19 23 57 57.7–.89 38.97N 144.54E 0 3.7,3.5 **¶17201564**
NIED IV 19 23 58 00 39.20N 144.20E 8 3.7W,3.5
ISCJB IV 19 23 58 02.1–1.5 39.13N–.08 144.3E–.10 44–15 3.4b,3.5
JMA IV 19 23 58 02.3–.20 39.18N 144.24E 40 3.7,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=20.5km az=125.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ25.00000°,λ-57.00000°. NP2:ϕ_s166.00000°,δ69.00000°,λ-104.00000°. M_o3.72000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=12.2km az=136.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 20 01 14 35.9–.75 38.09N–.08 143.55E–.07 19 3.7b 29 2-88
IDC IV 20 01 14 32.5–.75 37.96N 143.67E 0 3.9,3.8 **¶17201568**
ISCJB IV 20 01 14 33.9–.55 38.04N–.07 143.59E–.05 19 3.7b,3.8
JMA IV 20 01 14 34.5–.10 38.18N 143.41E 1–3 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=22.9km s-min=17.5km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.3km az=7.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 20 01 46 46.2–1.1 38.11N–.08 144.47E–.09 35 3.6b 29 2-59
IDC IV 20 01 46 40.3–1.4 37.89N 144.61E 0 3.8,3.6 **¶17201572**
JMA IV 20 01 46 43.9–.10 38.15N 144.39E 21 4.3,3.6
ISCJB IV 20 01 46 44.6–.83 38.10N–.06 144.44E–.06 33 3.6b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 02 04 04.5–.58 39.88N–.05 143.22E–.06 33–1 4.3b,3.2s 106 1-150
JMA IV 20 02 04 01.2–.20 39.93N 143.18E 11–3 4.2,3.2s **¶16505447**
ISCJB IV 20 02 04 03.4–.84 39.89N–.04 143.21E–.07 39–6 4.2b,3.3s
IDC IV 20 02 04 04.2–.63 39.79N 143.11E 31–3 4.1,4.0
NEIC IV 20 02 04 04.8–1.8 39.87N 143.12E 34–12 4.6b,4.0
MOS IV 20 02 04 04.3–.93 39.89N 143.14E 45 4.6b,4.0
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.2km az=27.3.
IDC Error ellipse: s-maj=14.7km s-min=13.0km az=129.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.7km az=124.0.
MOS Error ellipse: s-maj=10.4km s-min=6.8km az=99.6.
IDC IV 20 02 16 23.5–4.5 33.88N 142.09E 0 3.8,3.7
¶17201576
IDC Error ellipse: s-maj=155.0km s-min=26.7km az=65.0.
ISC IV 20 04 39 41.1–1.3 36.69N–.08 142.01E–.09 19 3.7b 19 1-75
NIED IV 20 04 39 00 36.70N 141.90E 32 3.6W **¶600593443**
IDC IV 20 04 39 37.3–1.8 36.65N 142.22E 0 3.8,3.7
ISCJB IV 20 04 39 39.3–.98 36.61N–.08 142.10E–.08 19 3.6b,2.6s
JMA IV 20 04 39 42.4–.20 36.65N 141.91E 29–4 3.7,2.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ23.00000°,λ68.00000°. NP2:ϕ_s8.00000°,δ69.00000°,λ99.00000°. M_o2.56000×10^{14}
IDC Error ellipse: s-maj=43.7km s-min=27.1km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=8.4km az=161.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 20 04 59 39.2–.10 38.18N 144.37E 29 3.5
¶600593458
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC IV 20 05 30 45.1–1.2 37.16N 144.58E 0 3.7,3.5L
¶17201588
IDC Error ellipse: s-maj=50.7km s-min=25.1km az=119.0.
IDC IV 20 06 14 46.0–4.6 37.07N 143.14E 0 3.6,3.4b
¶17201592
IDC Error ellipse: s-maj=133.4km s-min=29.3km az=162.0.
JMA IV 20 06 28 20.0–.20 38.60N 144.55E 31 3.7
¶600593514
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC IV 20 06 41 36.8–2.9 37.67N 142.14E 0 3.5,3.4b
¶17201597
IDC Error ellipse: s-maj=69.9km s-min=35.5km az=59.0.
ISC IV 20 07 40 31.5–.54 36.61N–.04 142.39E–.06 15 4.2b 64 1-146
NIED IV 20 07 40 00 36.60N 142.50E 26 4.2W **¶16505450**
IDC IV 20 07 40 28.9–.59 36.58N 142.49E 0 4.2,4.1
ISCJB IV 20 07 40 29.5–.39 36.61N–.03 142.49E–.05 15 4.1b,4.1
JMA IV 20 07 40 29.9–.40 36.65N 142.46E 17–4 4.3,4.1
NEIC IV 20 07 40 33.6–.29 36.44N 142.47E 35 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ46.00000°,λ-65.00000°. NP2:ϕ_s322.00000°,δ50.00000°,λ-113.00000°. M_o2.15000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=13.6km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.1km az=18.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.2km az=109.0.
ISC IV 20 07 41 54.3–.93 40.26N–.06 143.21E–.08 12 4.1b 28 1-72
JMA IV 20 07 41 53.0–.40 40.19N 143.39E 10–5 4.4 **¶16505451**
IDC IV 20 07 41 59.1–4.1 40.10N 143.29E 54–34 4.2,4.0
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
IDC Error ellipse: s-maj=35.3km s-min=19.1km az=87.0.
ISC IV 20 10 55 29.8–.82 38.3N–.10 144.6E–.10 29 3.5b 14 5-87
IDC IV 20 10 55 25.4–.87 38.27N 144.70E 0 3.9,3.7 **¶17201611**
ISCJB IV 20 10 55 27.8–.66 38.31N–.09 144.57E–.09 29 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 11 11 24.0–2.3 33.62N–.06 141.1E–.10 42–26 20 1-57
JMA IV 20 11 11 24.0–.10 33.69N 141.08E 44 3.1 **¶600593707**
IDC IV 20 11 11 24.2–1.4 32.98N 138.70E 0 3.9,3.8b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=26.9km s-min=18.5km az=142.0.
JMA IV 20 12 02 50.5–.30 37.88N 144.44E 25 3.6
¶600593758
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISC IV 20 12 30 28.8–2.1 34.49N–.06 141.76E–.06 7–12 3.5b 34 1-76
NIED IV 20 12 30 00 34.30N 142.10E 5 3.7W **¶17201613**
JMA IV 20 12 30 25.6–.30 34.32N 142.10E 29–5 3.5
IDC IV 20 12 30 28.1–.93 34.50N 141.73E 0 3.7,3.6
ISCJB IV 20 12 30 29.3–1.4 34.46N–.05 141.86E–.06 25–9 3.5s,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s301.00000°,δ38.00000°,λ96.00000°. NP2:ϕ_s114.00000°,δ52.00000°,λ86.00000°. M_o4.24000×10^{14}
ISCJB Event type ke.
IDC IV 20 13 01 40.1–1.6 36.68N 142.56E 0 3.4,3.3
¶17201616
IDC Error ellipse: s-maj=35.8km s-min=33.7km az=29.0.
ISC IV 20 15 07 21.0–2.0 38.2N–.10 143.4E–.10 15 12 2-62
IDC IV 20 15 07 10.3–13 39.37N 143.82E 0 3.5,3.4b **¶17201625**
JMA IV 20 15 07 21.5–.20 38.19N 143.36E 22 3.0,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=298.8km s-min=63.7km az=179.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 20 15 24 20.5–.74 37.23N–.05 143.67E–.08 35 3.8b 54 2-89
IDC IV 20 15 24 14.9–.75 37.14N 143.87E 0 4.0,3.9 **¶16536021**
ISCJB IV 20 15 24 18.3–.48 37.22N–.04 143.67E–.05 33 3.8b,3.9
JMA IV 20 15 24 18.7–.30 37.26N 143.67E 47 4.2,3.9
NEIC IV 20 15 24 20.3–.64 37.26N 143.77E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=14.9km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.1km az=157.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.4km az=126.0.
ISC IV 20 16 12 42.3–.91 39.09N–.06 143.35E–.08 20 3.6b 28 1-73
NIED IV 20 16 12 00 39.10N 143.30E 23 3.5W **¶16505456**
IDC IV 20 16 12 39.6–.90 39.13N 143.51E 0 3.7,3.6L
ISCJB IV 20 16 12 40.8–.63 39.13N–.05 143.43E–.06 20 3.4b,3.6L
JMA IV 20 16 12 42.0–.20 39.10N 143.35E 24 3.8,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ66.00000°,λ4.00000°. NP2:ϕ_s82.00000°,δ87.00000°,λ156.00000°. M_o2.24000×10^{14}
IDC Error ellipse: s-maj=26.1km s-min=17.0km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=37.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 20 17 20 08.0–1.4 35.81N–.07 142.1E–.10 23 3.2b 16 1-60
ISCJB IV 20 17 20 05.6–1.1 35.79N–.07 142.21E–.10 23 3.3b **¶17201631**
IDC IV 20 17 20 05.1–2.2 35.70N 142.11E 0 3.5,3.3
JMA IV 20 17 20 06.9–.20 35.87N 142.12E 70–4 2.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=9.5km az=168.0.
IDC Error ellipse: s-maj=44.8km s-min=25.6km az=63.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 20 17 37 43.9–.95 37.28N–.06 144.21E–.08 35 3.7b 37 3-61
NIED IV 20 17 37 00 37.40N 144.10E 8 3.7W **¶16587539**
IDC IV 20 17 37 39.3–.95 37.20N 144.43E 0 4.0L,3.9
ISCJB IV 20 17 37 41.9–.61 37.28N–.05 144.19E–.06 33 3.7b,3.9
JMA IV 20 17 37 44.1–.30 37.37N 144.06E 50 3.9,3.9
NEIC IV 20 17 37 44.1–.80 37.19N 144.34E 35 4.0b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ20.00000°,λ-104.00000°. NP2:ϕ_s249.00000°,δ70.00000°,λ-85.00000°. M_o4.48000×10^{14}
IDC Error ellipse: s-maj=26.1km s-min=18.1km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=6.2km az=26.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=13.8km az=138.0.
ISC IV 20 18 40 36.2–1.3 38.6N–.20 144.8E–.20 43 3.7b 9 6-75
IDC IV 20 18 40 29.7–1.3 38.55N 144.92E 0 4.0,3.8 **¶17201634**
ISCJB IV 20 18 40 34.3–1.0 38.5N–.10 144.7E–.30 43 4.4s,3.8b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 18 49 07.6–1.5 37.26N–.07 144.57E–.10 35 22 3-61
IDC IV 20 18 49 04.2–2.0 37.21N 144.47E 0 3.6,3.6 **¶17201635**
ISCJB IV 20 18 49 07.9–1.1 37.25N–.06 144.42E–.08 35 3.4b,3.6
JMA IV 20 18 49 09.6–.30 37.32N 144.33E 47 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=31.6km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=9.3km az=175.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 20 19 21 52.1–.99 37.90N–.10 143.69E–.07 19 3.8b 37 2-76
IDC IV 20 19 21 46.8–.84 37.47N 143.82E 0 4.0,3.8 **¶16596711**
ISCJB IV 20 19 21 50.8–.67 37.92N–.06 143.75E–.05 19 3.8b,3.8
JMA IV 20 19 21 51.5–.10 38.02N 143.63E 6 4.0,3.8
NEIC IV 20 19 21 52.1–.73 37.55N 143.82E 35 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=21.4km s-min=18.8km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.5km az=16.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=14.3km az=96.0.
ISC IV 20 20 07 04.5–.67 37.30N–.05 142.00E–.06 24 3.8b,3.5s 40 1-83
IDC IV 20 20 07 00.9–.72 37.24N 142.16E 0 3.9,3.8 **¶16596713**
NEIC IV 20 20 07 01.7–3.4 37.25N 142.12E 5–20 4.4b,3.8
ISCJB IV 20 20 07 02.8–.49 37.31N–.05 142.10E–.05 24 3.8b,3.5s
JMA IV 20 20 07 02.7–.20 37.31N 142.11E 29–4 4.2,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=20.4km s-min=14.4km az=114.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=6.3km az=132.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.4km az=167.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 20 20 54 40.2–.81 36.20N–.04 142.03E–.08 23 4.0b 39 1-84
NIED IV 20 20 54 00 36.20N 142.00E 17 3.8W **¶16505460**
IDC IV 20 20 54 38.0–.82 36.14N 141.89E 0 3.9,3.8L
ISCJB IV 20 20 54 39.3–.52 36.20N–.04 142.03E–.06 23 3.9b,3.8L
JMA IV 20 20 54 40.7–.20 36.22N 141.95E 53 3.9,3.8L
NEIC IV 20 20 54 40.6–4.3 36.19N 142.00E 18–26 4.5b,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ27.00000°,λ98.00000°. NP2:ϕ_s29.00000°,δ64.00000°,λ86.00000°. M_o6.53000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=16.0km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=24.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=9.8km az=107.0.
JMA IV 20 21 45 29.4–.30 37.68N 142.83E 12–4 3.5
¶600594386
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 21 00 01 51.2–1.0 36.76N–.06 142.29E–.08 20–6 3.6b 31 1-75
NIED IV 21 00 01 00 36.70N 142.40E 20 3.8W **¶17201655**
JMA IV 21 00 01 48.5–.30 36.74N 142.41E 16–4 3.8
ISCJB IV 21 00 01 49.6–1.9 36.71N–.05 142.39E–.06 25–15 3.5b,2.9s
IDC IV 21 00 01 53.9–5.0 36.75N 142.32E 41–45 3.6,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ26.00000°,λ86.00000°. NP2:ϕ_s21.00000°,δ64.00000°,λ92.00000°. M_o5.18000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=8.2km az=24.8.
IDC Error ellipse: s-maj=28.9km s-min=19.8km az=87.0.
ISC IV 21 00 39 04.6–.31 40.37N–.03 143.67E–.03 21–3 5.5b,5.3s 1506 2-154
NIED IV 21 00 39 00 40.30N 143.70E 11 5.6W,5.3s **¶16449644**
JMA IV 21 00 39 01.5–.30 40.33N 143.68E 10 5.7,5.3s
BJI IV 21 00 39 01.0 40.26N 143.47E 10 5.8s,5.7
ISCJB IV 21 00 39 01.0–.59 40.35N–.02 143.59E–.02 6–3 5.4b,5.3s
NEIC IV 21 00 39 03.2–.11 40.34N 143.55E 10 5.7W,5.7W
GCMT IV 21 00 39 03.2–.10 40.30N 143.85E 15 5.7W,5.7W
IDC IV 21 00 39 05.0–3.2 40.33N 143.69E 26–21 5.3,5.3s
NEIC IV 21 00 39 04.0–.00 40.50N 143.68E 15 5.3,5.3s
MOS IV 21 00 39 05.1–.97 40.48N 143.54E 33 5.7b,5.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s153.00000°,δ28.00000°,λ25.00000°. NP2:ϕ_s41.00000°,δ78.00000°,λ116.00000°. M_o3.19000×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.9km az=158.9.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.4km az=148.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.81 $M_{\phi\phi}$-0.84 $M_{r\theta}$1.79 $M_{\theta\phi}$-1.39 $M_{\phi r}$2.92 Best double couple: NP1:ϕ_s243.00000°,δ17.00000°,λ120.00000°. NP2: ϕ_s32.00000°,δ76.00000°,λ82.00000°. Principal axes: T 3.7100,Plg58.0000°,Azm291.0000° ; N 0.4600,Plg8.0000°,Azm34.0000°; P -4.1700,Plg30.0000°,Azm129.0000° M_o4.00000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s200.00000°,δ5.00000°,λ90.00000°. NP2:ϕ_s20.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm290.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000° ,Azm110.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s89,c162; s124,c307;Duration: 1$\mathfrak{s}$6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.60±.02 $M_{\theta\theta}$-0.10±.02; $M_{\phi\phi}$-1.51±.02; $M_{r\theta}$1.24±.07; $M_{\theta\phi}$-0.53±.01; M_{ϕ}3.23±.07; Best double couple: NP1:ϕ_s21.00000° ,δ77.00000°,λ91.00000°. NP2:ϕ_s196.00000°,δ13.00000°,λ85.00000°. Principal axes: T 3.7890,Plg58.0000°,Azm292.0000°; N 0.0780,Plg1.0000°,Azm201.0000° ; P -3.8720,Plg32.0000°,Azm110.0000° M_o3.83000×10^{17}
IDC Error ellipse: s-maj=11.6km s-min=9.3km az=86.0.
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80 $M_{\theta\theta}$0.10 $M_{\phi\phi}$-0.90 $M_{r\theta}$1.20 $M_{\theta\phi}$0.20 $M_{\phi r}$4.00 Best double couple: NP1:ϕ_s15.00000°,δ84.00000° ,λ95.00000°. NP2:ϕ_s149.00000°,δ7.00000°,λ44.00000°. Principal axes: T 4.3000,Plg49.0000°,Azm291.0000°; N -0.1000,Plg5.0000°,Azm195.0000° ; P -4.2000,Plg39.0000°,Azm100.0000° M_o4.00000×10^{17}

MOS Error ellipse: s-maj=5.8km s-min=3.9km az=104.9.
ISC IV 21 00 44 15.6–3.7 40.28N–.05 143.70E–.07 7–22 4.1b 50 2-87
IDC IV 21 00 44 13.9–.74 40.14N 143.70E 0 4.1,3.9 **¶16631148**
JMA IV 21 00 44 16.6–.30 40.28N 143.55E 5 4.0,3.9
NEIC IV 21 00 44 19.8–1.6 40.24N 143.78E 39–14 4.7b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=18.3km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=10.3km az=111.0.
ISC IV 21 01 05 56.0–.72 40.30N–.06 143.85E–.08 16 4.0b 41 2-81
ISCJB IV 21 01 05 54.2–.53 40.32N–.04 143.84E–.07 16 3.9b **¶600594565**
JMA IV 21 01 05 55.6–.20 40.34N 143.83E 38 4.2
IDC IV 21 01 05 58.1–5.2 40.26N 143.87E 31–37 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.4km az=33.5.
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
IDC Error ellipse: s-maj=21.1km s-min=14.6km az=117.0.
ISC IV 21 01 23 43.1–.95 40.33N–.06 143.84E–.09 16 3.6b 28 2-73
IDC IV 21 01 23 40.0–1.2 40.27N 144.09E 0 3.6,3.6 **¶17201658**
ISCJB IV 21 01 23 41.2–.74 40.31N–.05 143.90E–.08 16 3.6b,3.6
JMA IV 21 01 23 41.8–.20 40.35N 143.74E 9 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.9km s-min=21.7km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.2km az=29.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 21 01 26 48.9–1.0 40.31N–.06 143.75E–.10 16 3.5b 28 2-67
ISCJB IV 21 01 26 47.1–.85 40.32N–.04 143.85E–.10 16 3.5b **¶600594576**
JMA IV 21 01 26 48.0–.20 40.36N 143.75E 18 3.7
IDC IV 21 01 26 52.1–3.7 40.20N 143.73E 39–31 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=4.9km az=19.1.
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
IDC Error ellipse: s-maj=30.2km s-min=21.0km az=93.0.
ISC IV 21 01 32 29.8–1.1 37.8N–.20 144.3E–.10 35 3.3b 11 2-62
IDC IV 21 01 32 24.3–1.2 37.63N 144.69E 0 3.6,3.6L **¶17201660**
ISCJB IV 21 01 32 27.3–1.0 37.7N–.20 144.39E–.09 33 3.3b,3.6L
JMA IV 21 01 32 28.6–.10 37.89N 144.25E 34 3.2,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=23.2km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=10.3km az=173.8.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 21 01 54 42.6–.38 40.33N–.03 143.74E–.03 19–1 5.7b,5.6s 1743 2-160
NIED IV 21 01 54 00 40.30N 143.70E 17 5.8W,5.6s **¶16449646**
BJI IV 21 01 54 37.8 40.25N 143.70E 10 6.1s,6.0
ISCJB IV 21 01 54 39.2–.51 40.31N–.02 143.70E–.01 6–3 5.6s,5.6b
JMA IV 21 01 54 40.5–.40 40.31N 143.65E 11–5 6.0,5.6b
NEIC IV 21 01 54 40.0–.00 40.32N 144.08E 15 6.0,5.6b
GCMT IV 21 01 54 41.6–.10 40.33N 143.87E 15 5.8W,5.6b
NEIC IV 21 01 54 41.6–.10 40.31N 143.63E 11 5.9,5.8W
IDC IV 21 01 54 42.8–1.8 40.34N 143.75E 22–11 5.5,5.5s
MOS IV 21 01 54 43.7–1.0 40.43N 143.65E 33 5.9b,5.6s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ33.00000°,λ6.00000°. NP2:ϕ_s41.00000°,δ87.00000°,λ123.00000°. $M_0$5.09000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=162.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}1.30 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$-1.20 $M_{r\theta}$1.50 $M_{\theta\phi}$0.00 $M_{\phi r}$6.70 Best double couple: NP1:ϕ_s12.00000° ,δ85.00000°,λ91.00000°. NP2:ϕ_s172.00000°,δ5.00000°,λ69.00000°. Principal axes: T 7.1000,Plg49.0000°,Azm284.0000°; N -0.2000,Plg1.0000°,Azm192.0000° ; P -6.9000,Plg40.0000°,Azm101.0000° $M_0$7.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s103,c206; s122,c281;Duration: 1^{9}9 Moment tensor: Scale 10^{17}Nm; M_{rr}1.47±.03 $M_{\theta\theta}$0.17±.02; $M_{\phi\phi}$-1.65±.02; $M_{r\theta}$1.90±.09; $M_{\theta\phi}$-0.08±.02; $M_{\phi r}$6.47±.08; Best double couple: NP1:ϕ_s16.00000° ,δ84.00000°,λ93.00000°. NP2:ϕ_s167.00000°,δ7.00000°,λ61.00000°. Principal axes: T 6.8820,Plg51.0000°,Azm290.0000°; N 0.0780,Plg3.0000°,Azm196.0000° ; P -6.9650,Plg39.0000°,Azm103.0000° $M_0$6.92300×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=148.0. Felt at Ichinoseki and Misawa. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s64 Moment tensor: Scale 10^{17}Nm; M_{rr}2.87 $M_{\theta\theta}$-0.39 $M_{\phi\phi}$-2.48 $M_{r\theta}$1.24 $M_{\theta\phi}$-0.04 $M_{\phi r}$6.77 Best double couple: NP1:ϕ_s176.00000° ,δ11.00000°,λ77.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ92.00000°. Principal axes: T 7.6000,Plg55.0000°,Azm283.0000°; N -0.4300,Plg2.0000°,Azm189.0000° ; P -7.1600,Plg34.0000°,Azm98.0000° $M_0$7.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s190.00000°,δ5.00000°,λ90.00000°. NP2: ϕ_s10.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000°,Azm280.0000° ; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm100.0000°
IDC Error ellipse: s-maj=10.4km s-min=10.0km az=112.0.
MOS Error ellipse: s-maj=5.6km s-min=3.7km az=102.3.
JMA IV 21 02 04 44.4–.20 40.34N 143.81E 17 3.5 ¶600594612
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 21 02 41 57.4–.84 40.33N–.06 143.76E–.09 16 3.7b 32 2-73
ISCJB IV 21 02 41 55.7–.65 40.31N–.04 143.83E–.08 16 3.6b **¶17201665**
JMA IV 21 02 41 57.3–.20 40.34N 143.72E 26 3.6
IDC IV 21 02 42 01.5–3.0 40.19N 143.76E 51–26 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.6km az=30.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=19.4km az=119.0.
ISC IV 21 03 08 37.8–.67 37.25N–.04 142.27E–.04 27–4 5.0b,4.4s 718 1-153
NIED IV 21 03 08 00 37.20N 142.40E 23 4.9W,4.4s **¶16449647**
JMA IV 21 03 08 32.5–.20 37.19N 142.41E 13–3 5.0,4.4s
ISCJB IV 21 03 08 33.1–1.0 37.27N–.02 142.30E–.02 5–6 4.9b,4.5s
IDC IV 21 03 08 36.4–3.0 37.23N 142.25E 17–18 4.7,4.7
NEIC IV 21 03 08 37.5–1.1 37.27N 142.25E 24–8 5.1b,4.7
BJI IV 21 03 08 37.9 37.15N 142.36E 43 5.3b,4.8s
GCMT IV 21 03 08 37.5–.40 37.31N 142.22E 15 5.0W,4.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s282.00000°,δ22.00000°,λ-127.00000°. NP2:ϕ_s140.00000°,δ73.00000°,λ-77.00000°. $M_0$2.78000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=169.7.
IDC Error ellipse: s-maj=12.5km s-min=9.9km az=120.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=143.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c20; s63,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.34±.10 $M_{\theta\theta}$1.12±.07; $M_{\phi\phi}$0.22±.07; $M_{r\theta}$-1.09±.27; $M_{\theta\phi}$-0.58±.05; $M_{\phi r}$4.20±.30; Best double couple: NP1:ϕ_s162.00000°,δ83.00000° ,λ-80.00000°. NP2:ϕ_s286.00000°,δ12.00000°,λ-146.00000°. Principal axes: T 4.1470,Plg38.0000°,Azm243.0000°; N 0.7220,Plg10.0000°,Azm341.0000° ; P -4.8690,Plg51.0000°,Azm83.0000° $M_0$4.50800×10^{16}
ISC IV 21 05 12 22.2–1.0 37.38N–.07 142.18E–.07 24 3.5b 21 1-63
NIED IV 21 05 12 00 37.30N 142.20E 17 3.7W **¶17201674**
IDC IV 21 05 12 18.5–1.4 37.42N 142.52E 0 3.7s,3.7
JMA IV 21 05 12 19.2–.20 37.32N 142.20E 7–2 3.9,3.7
ISCJB IV 21 05 12 20.5–.86 37.33N–.07 142.24E–.06 24 3.5b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ36.00000°,λ-129.00000°. NP2:ϕ_s122.00000°,δ63.00000°,λ-66.00000°. $M_0$3.48000×10^{14}
ISCJB Event type ke.
ISC IV 21 06 57 05.8–1.9 37.31N–.09 142.4E–.10 21 13 1-57
NIED IV 21 06 57 00 37.30N 142.50E 11 3.5W **¶17201682**
ISCJB IV 21 06 57 04.7–1.3 37.29N–.06 142.45E–.08 21 3.5b
JMA IV 21 06 57 05.2–.20 37.29N 142.46E 31 3.9
IDC IV 21 06 57 07.0–3.1 36.75N 141.71E 0 3.4,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ41.00000°,λ-62.00000°. NP2:ϕ_s182.00000°,δ54.00000°,λ-113.00000°. $M_0$2.29000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.3km az=42.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=73.1km s-min=35.4km az=56.0.
ISC IV 21 07 01 10.1–.73 38.84N–.04 143.09E–.04 16–4 4.6b,3.7s 207 1-85
NIED IV 21 07 01 00 38.70N 143.10E 14 4.2W,3.7s **¶16451846**
IDC IV 21 07 01 08.2–.64 38.78N 142.97E 0 4.4,4.3
BJI IV 21 07 01 08.4 38.78N 143.06E 19 4.8b,4.7b
JMA IV 21 07 01 08.6–.10 38.72N 143.05E 14–2 4.4,4.7b
ISCJB IV 21 07 01 08.5–.99 38.77N–.03 143.11E–.03 15–6 4.4b,3.7s
MOS IV 21 07 01 11.4–1.0 38.91N 143.05E 33 4.7b,3.7s
NEIC IV 21 07 01 13.2–1.5 38.79N 143.03E 34–10 4.5b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s287.00000°,δ24.00000°,λ-9.00000°. NP2:ϕ_s26.00000°,δ86.00000°,λ-114.00000°. $M_0$2.19000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=13.3km az=123.0.
JMA Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.3km az=138.5.
MOS Error ellipse: s-maj=8.2km s-min=5.2km az=100.3.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=124.0.
IDC IV 21 07 46 36.2–1.6 35.39N 143.00E 0 3.5,3.2 ¶17201692
IDC Error ellipse: s-maj=39.2km s-min=36.9km az=99.0.
IDC IV 21 08 50 11.0–13 36.05N 143.59E 0 3.6,3.5b ¶17201698
IDC Error ellipse: s-maj=314.2km s-min=46.9km az=36.0.
ISC IV 21 09 33 59.5–3.5 37.85N–.08 144.37E–.09 7–21 21 2-62
IDC IV 21 09 33 58.0–2.3 37.83N 144.63E 0 3.3,3.2 **¶17201701**
JMA IV 21 09 34 03.8–.30 37.94N 144.12E 16 3.4,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=58.7km s-min=35.4km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 21 10 00 38.6–.94 37.67N–.06 144.48E–.07 35 3.9b 40 3-75
IDC IV 21 10 00 33.2–.91 37.47N 144.70E 0 4.1,3.9 **¶17201706**
ISCJB IV 21 10 00 37.3–.71 37.73N–.04 144.43E–.05 33 3.9b,3.9
JMA IV 21 10 00 37.6–.20 37.69N 144.39E 42 4.0,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=19.8km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=138.1.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 21 10 30 31.1–1.3 37.27N–.04 143.47E–.05 7–7 4.2b,3.3s 97 2-89
NIED IV 21 10 30 00 37.20N 143.40E 5 4.2W,3.3s **¶16505466**
IDC IV 21 10 30 29.6–.55 37.16N 143.67E 0 4.3,4.1
JMA IV 21 10 30 33.9–.20 37.24N 143.43E 49 4.3,4.1
MOS IV 21 10 30 33.0–1.5 37.37N 143.62E 33 4.4b,4.1
NEIC IV 21 10 30 35.0–.41 37.27N 143.57E 35 4.4b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ23.00000°,λ-70.00000°. NP2:ϕ_s185.00000°,δ69.00000°,λ-98.00000°. $M_0$2.14000×10^{15}
IDC Error ellipse: s-maj=15.0km s-min=11.8km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=6.3km az=91.6.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.5km az=134.0.
ISC IV 21 11 10 09.1–1.4 37.79N–.08 144.67E–.09 35 3.6b 20 3-62
IDC IV 21 11 10 03.8–1.6 37.75N 144.94E 0 3.5,3.3 **¶17201710**
ISCJB IV 21 11 10 07.3–.90 37.76N–.07 144.64E–.07 33 4.0b,3.3
JMA IV 21 11 10 08.8–.30 37.82N 144.53E 33 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=56.4km s-min=23.2km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.4km az=24.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 21 13 14 20.9–.84 38.08N–.06 144.62E–.07 35 3.6b 39 3-75
IDC IV 21 13 14 15.2–.83 37.94N 144.79E 0 3.8,3.8L **¶16596716**
ISCJB IV 21 13 14 19.0–.62 38.09N–.05 144.60E–.04 33 3.5b,3.8L
NEIC IV 21 13 14 19.7–.77 37.99N 144.09E 35 4.3b,3.8L
JMA IV 21 13 14 20.3–.20 38.08N 144.51E 45 4.0,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=17.5km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.8km az=162.6.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=11.4km az=116.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC IV 21 14 50 32.8–2.1 37.68N 143.73E 0 3.4,3.4 ¶17201720
IDC Error ellipse: s-maj=56.7km s-min=33.8km az=85.0.
ISC IV 21 14 55 48.8–.88 39.10N–.06 143.44E–.08 20 3.4b 31 1-63
IDC IV 21 14 55 45.2–.87 39.01N 143.52E 0 3.7,3.6 **¶17201721**
ISCJB IV 21 14 55 46.6–.61 39.04N–.05 143.50E–.06 20 3.4b,3.6
JMA IV 21 14 55 47.5–.20 39.06N 143.39E 17–4 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.2km s-min=17.2km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.6km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 21 15 14 42.1–.30 37.25N 142.28E 0 3.8 ¶600595174
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 21 15 46 39.9–.83 38.08N–.05 144.64E–.07 35 3.7b 44 3-75
IDC IV 21 15 46 34.5–.84 37.91N 144.77E 0 3.9,3.7 **¶17201725**
ISCJB IV 21 15 46 38.0–.59 38.12N–.04 144.62E–.04 33 3.7b,3.7
JMA IV 21 15 46 39.1–.20 38.08N 144.53E 40 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=17.6km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=144.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 21 16 31 26.1–.53 40.39N–.05 143.89E–.06 16 4.5b,4.3s 124 2-83
JMA IV 21 16 31 23.4–.20 40.42N 143.79E 0 4.3,4.3s **¶16452790**
IDC IV 21 16 31 23.9–.73 40.36N 143.76E 0 4.2s,4.2
ISCJB IV 21 16 31 24.4–.38 40.40N–.03 143.87E–.05 16 4.3b,4.2s
NEIC IV 21 16 31 25.3–2.5 40.39N 143.74E 8–15 4.6b,4.2s
MOS IV 21 16 31 26.9–1.1 40.44N 143.79E 33 4.6b,4.2s
BJI IV 21 16 31 30.1 40.33N 143.08E 25 5.1b,4.6b
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=14.0km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.7km az=29.2.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=4.9km az=117.0.
MOS Error ellipse: s-maj=9.3km s-min=5.5km az=96.2.
ISC IV 21 16 39 54.4–1.4 38.05N–.07 144.74E–.09 35 3.5b 31 3-59
IDC IV 21 16 39 49.2–2.4 37.84N 144.88E 0 3.5,3.5L **¶17201726**
JMA IV 21 16 39 54.9–.20 38.11N 144.51E 30 3.8,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=60.8km s-min=29.1km az=79.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 21 17 46 34.2–1.2 38.07N–.07 144.69E–.08 35 3.4b 29 3-59
IDC IV 21 17 46 29.3–1.4 37.91N 144.78E 0 3.6,3.4 **¶17201729**
ISCJB IV 21 17 46 33.1–.90 38.08N–.06 144.61E–.06 33 3.3b,3.4
JMA IV 21 17 46 34.6–.30 38.09N 144.49E 34 3.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=27.1km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.1km az=148.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 21 18 02 02.4–1.7 36.37N–.06 142.41E–.10 15 3.5b 27 1-60
ISCJB IV 21 18 02 00.8–1.1 36.33N–.05 142.43E–.08 15 3.4b **¶17201730**
JMA IV 21 18 02 01.4–.20 36.32N 142.51E 65 3.1
IDC IV 21 18 02 05.6–1.6 36.82N 142.10E 0 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.5km az=26.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=41.7km s-min=21.4km az=76.0.
JMA IV 21 18 57 58.7–.20 40.43N 143.75E 0 3.6
NIED IV 21 18 57 00 40.40N 143.70E 14 3.6W **¶600595400**
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ40.00000°,λ22.00000°. NP2:ϕ_s34.00000°,δ76.00000°,λ128.00000°. $M_0$2.53000×10^{14}

ISC IV 21 20 36 53.7–3.3 40.2N–.10 143.8E–.30 16 3.5b 7 4-44
IDC IV 21 20 36 53.1–6.6 40.30N 143.59E 0 3.4b,3.3 **¶17201739**
ISC Event type ke.
IDC Error ellipse: s-maj=113.8km s-min=32.9km az=106.0.
ISC IV 21 20 37 49.4–3.5 40.25N–.06 143.75E–.07 8–22 3.4b 30 1-67
NIED IV 21 20 37 00 40.30N 143.60E 5 3.6W **¶17201740**
JMA IV 21 20 37 50.3–.30 40.33N 143.62E 3–4 3.8
IDC IV 21 20 37 53.8–2.9 40.12N 143.88E 45–27 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ76.00000°,λ178.00000°. NP2:ϕ_s331.00000°,δ88.00000°,λ14.00000°. $M_0$2.87000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
IDC Error ellipse: s-maj=27.3km s-min=20.7km az=113.0.
ISC IV 21 21 24 20.1–.98 37.01N–.08 142.69E–.08 9 3.9b,3.3s 28 1-75
NIED IV 21 21 24 00 37.00N 142.70E 14 4.1W,3.3s **¶16531756**
IDC IV 21 21 24 17.9–1.4 36.92N 142.82E 0 3.9,3.8
ISCJB IV 21 21 24 18.3–.74 37.03N–.06 142.75E–.07 9 3.9b,3.3s
JMA IV 21 21 24 20.3–.40 36.99N 142.71E 31 3.7,3.3s
NEIC IV 21 21 24 21.1–2.9 36.95N 142.83E 20–19 4.2b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ29.00000°,λ101.00000°. NP2:ϕ_s29.00000°,δ61.00000°,λ84.00000°. $M_0$1.57000×10^{15}
IDC Error ellipse: s-maj=29.3km s-min=26.2km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=7.5km az=151.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=8.2km az=132.0.
ISC IV 21 22 24 35.2–1.1 37.25N–.08 143.65E–.08 35 3.5b 21 2-75
NIED IV 21 22 24 00 37.20N 143.50E 5 3.6W **¶16707655**
IDC IV 21 22 24 29.5–1.3 37.01N 143.89E 0 3.8,3.7
ISCJB IV 21 22 24 34.0–.96 37.20N–.09 143.57E–.07 33 3.6b,3.7
JMA IV 21 22 24 34.2–.20 37.23N 143.50E 25 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ33.00000°,λ-109.00000°. NP2:ϕ_s231.00000°,δ59.00000°,λ-78.00000°. $M_0$2.58000×10^{14}
IDC Error ellipse: s-maj=31.5km s-min=24.4km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=7.4km az=169.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 21 22 31 14.6–1.1 36.15N–.06 142.07E–.09 23 3.6b 20 1-75
IDC IV 21 22 31 11.6–1.7 36.11N 142.00E 0 3.6,3.6 **¶17201754**
ISCJB IV 21 22 31 13.2–.87 36.20N–.05 142.09E–.08 23 3.5b,3.6
JMA IV 21 22 31 16.3–.30 36.29N 141.77E 76–4 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.2km s-min=24.0km az=144.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.1km az=27.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 21 22 50 21.3–.00 37.29N–.06 143.92E–.08 35 3.7b 33 2-61
NIED IV 21 22 50 00 37.30N 143.80E 5 3.8W **¶600595599**
IDC IV 21 22 50 15.9–1.1 37.02N 144.07E 0 4.0,3.9L
ISCJB IV 21 22 50 19.2–.69 37.25N–.05 143.89E–.05 33 3.8b,3.9L
JMA IV 21 22 50 20.5–.20 37.27N 143.80E 65 3.8,3.9L
NEIC IV 21 22 50 20.9–.90 37.20N 144.01E 35 4.2b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ25.00000°,λ-119.00000°. NP2:ϕ_s237.00000°,δ68.00000°,λ-77.00000°. $M_0$5.20000×10^{14}
IDC Error ellipse: s-maj=27.5km s-min=19.8km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.5km az=151.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.8km az=118.0.
JMA IV 22 00 55 08.0–.30 37.65N 142.66E 1 3.6
¶600595697
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA IV 22 01 22 08.3–.20 38.05N 144.55E 45 3.7
¶600595707
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 22 01 39 24.0–.98 36.91N–.07 142.32E–.07 9 3.6b 18 1-90
NIED IV 22 01 39 00 36.90N 142.40E 8 3.8W **¶600595713**
ISCJB IV 22 01 39 21.9–.76 36.90N–.07 142.50E–.07 9 3.6b,3.5s
IDC IV 22 01 39 22.4–.94 36.83N 142.48E 0 3.7,3.6b
JMA IV 22 01 39 23.9–.20 36.88N 142.38E 17–4 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ66.00000°,λ15.00000°. NP2:ϕ_s342.00000°,δ76.00000°,λ155.00000°. $M_0$4.93000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.2km az=27.9.
IDC Error ellipse: s-maj=24.8km s-min=21.3km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 22 02 19 29.3–.87 39.72N–.06 143.39E–.08 11 3.8b 29 2-81
ISCJB IV 22 02 19 27.4–.68 39.69N–.05 143.56E–.07 11 3.7b,3.2s **¶16505480**
JMA IV 22 02 19 27.2–.30 39.69N 143.67E 30 4.0,3.2s
IDC IV 22 02 19 32.1–6.6 39.73N 143.44E 29–47 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.9km az=41.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=25.8km s-min=17.9km az=116.0.
ISC IV 22 02 25 45.9–3.2 38.72N–.08 143.8E–.20 42–36 21 2-59
NIED IV 22 02 25 00 38.70N 143.70E 8 3.7W **¶17201775**
IDC IV 22 02 25 41.3–3.0 38.42N 144.15E 0 3.7,3.5L
ISCJB IV 22 02 25 45.2–1.4 38.69N–.06 143.74E–.10 57–20 3.5b,3.5L
JMA IV 22 02 25 45.2–.20 38.71N 143.68E 31 3.8,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ44.00000°,λ-172.00000°. NP2:ϕ_s250.00000°,δ84.00000°,λ-46.00000°. $M_0$3.47000×10^{14}
IDC Error ellipse: s-maj=72.5km s-min=36.8km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=9.7km az=17.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 22 02 33 50.8–4.0 39.65N–.06 143.42E–.08 10–24 3.6b 25 2-72
NIED IV 22 02 33 00 39.70N 143.50E 17 3.8W **¶16505481**
IDC IV 22 02 33 48.8–1.2 39.53N 143.45E 0 3.7,3.6
JMA IV 22 02 33 51.3–.40 39.69N 143.53E 24 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ27.00000°,λ62.00000°. NP2:ϕ_s44.00000°,δ67.00000°,λ103.00000°. $M_0$5.43000×10^{14}
IDC Error ellipse: s-maj=30.8km s-min=22.5km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 22 02 38 22.0–2.0 37.36N–.06 142.53E–.06 8–11 4.3b,3.6s 87 1-146
ISCJB IV 22 02 38 20.7–1.6 37.39N–.05 142.73E–.04 10–10 4.2b,3.5s **¶16505482**
IDC IV 22 02 38 20.7–.73 37.28N 142.72E 0 4.2,4.1
JMA IV 22 02 38 21.7–.20 37.37N 142.55E 2–3 4.5,4.1
NEIC IV 22 02 38 26.2–.43 37.41N 142.71E 35 4.4b,4.1
MOS IV 22 02 38 26.2–.91 37.71N 142.56E 35 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.7km az=160.2.
IDC Error ellipse: s-maj=18.4km s-min=16.1km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.9km az=140.0.
MOS Error ellipse: s-maj=9.8km s-min=6.3km az=106.4.
ISC IV 22 03 32 47.1–1.7 38.30N–.07 143.9E–.10 10 23 2-59
NIED IV 22 03 32 00 38.30N 143.90E 5 3.6W **¶17201780**
IDC IV 22 03 32 44.7–3.1 38.23N 144.24E 0 3.8,3.6b
ISCJB IV 22 03 32 48.2–1.3 38.31N–.07 143.78E–.09 10 3.7b,3.6b
JMA IV 22 03 32 49.3–.30 38.30N 143.87E 40 3.8,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ38.00000°,λ-85.00000°. NP2:ϕ_s218.00000°,δ53.00000°,λ-94.00000°. $M_0$2.56000×10^{14}
IDC Error ellipse: s-maj=72.1km s-min=38.4km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=9.7km az=167.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA IV 22 05 31 17.9–.40 39.57N 143.44E 22 3.7
NIED IV 22 05 31 00 39.60N 143.40E 14 3.5W **¶600595826**
JMA Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ57.00000°,λ-11.00000°. NP2:ϕ_s269.00000°,δ81.00000°,λ-146.00000°. $M_0$2.15000×10^{14}

ISC IV 22 06 30 20.4–1.1 38.54N–.07 143.65E–.09 15 3.6b 29 2-88
NIED IV 22 06 30 00 38.50N 143.60E 17 3.8W **¶17201792**
IDC IV 22 06 30 16.3–.84 38.25N 143.97E 0 4.1L,3.8
ISCJB IV 22 06 30 17.7–.60 38.47N–.05 143.73E–.06 15 3.5b,3.8
JMA IV 22 06 30 20.3–.20 38.48N 143.64E 37 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ71.00000°,λ170.00000°. NP2:ϕ_s69.00000°,δ80.00000°,λ20.00000°. $M_0$6.18000×10^{14}
IDC Error ellipse: s-maj=23.0km s-min=17.4km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.0km az=139.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 22 06 52 08.2–2.4 33.20N 141.10E 0 3.6,3.4
¶17201795
IDC Error ellipse: s-maj=44.4km s-min=24.1km az=30.0.
ISC IV 22 07 33 41.4–2.2 37.55N–.08 143.0E–.10 55–25 3.4b 21 2-63
IDC IV 22 07 33 34.3–1.5 37.39N 143.43E 0 3.5,3.3 **¶17201798**
ISCJB IV 22 07 33 38.9–1.4 37.49N–.06 143.17E–.10 54–17 3.3b,3.3
JMA IV 22 07 33 38.4–.20 37.50N 143.17E 38 3.4,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=48.2km s-min=27.0km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=7.8km az=29.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 22 10 17 54.6–.30 37.07N 142.52E 24 3.5
¶600596027
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 22 10 28 16.9–.58 38.53N–.04 144.78E–.04 28–3 4.7b,3.8s 356 2-147
NIED IV 22 10 28 00 38.60N 144.50E 11 4.4W,3.8s **¶16451725**
IDC IV 22 10 28 12.6–.48 38.47N 144.79E 0 4.7,4.7
ISCJB IV 22 10 28 14.3–.99 38.57N–.03 144.61E–.03 16–7 4.6b,3.8s
BJI IV 22 10 28 15.7 38.69N 144.53E 10 4.8b,4.8b
NEIC IV 22 10 28 16.8–1.3 38.49N 144.66E 24–9 4.7b,4.8b
MOS IV 22 10 28 17.4–.98 38.75N 144.62E 33 4.8b,4.8b
JMA IV 22 10 28 17.0–.20 38.57N 144.53E 39 4.6,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ52.00000°,λ-146.00000°. NP2:ϕ_s46.00000°,δ63.00000°,λ-43.00000°. $M_0$4.12000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=11.1km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=166.1.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.4km az=134.0.
MOS Error ellipse: s-maj=7.4km s-min=4.7km az=104.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 22 11 11 49.1–1.1 37.7N–.10 144.0E–.20 35 3.4b 7 5-62
IDC IV 22 11 11 44.6–1.2 37.70N 144.10E 0 3.6,3.5 **¶17201807**
ISCJB IV 22 11 11 46.5–.97 37.8N–.10 143.8E–.20 33 3.4b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 13 43 40.8–2.8 37.86N–.05 144.32E–.06 29–20 3.6b,2.9s 46 2-88
IDC IV 22 13 43 35.2–.68 37.59N 144.54E 0 4.0,4.0L **¶17201817**
JMA IV 22 13 43 39.8–.20 37.82N 144.27E 42 4.2,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=21.3km s-min=14.5km az=128.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 22 15 42 28.2–2.2 39.6N–.10 143.4E–.10 11 3.2b 13 1-64
IDC IV 22 15 42 15.2–2.1 38.94N 145.03E 0 3.4,3.3 **¶17201827**
JMA IV 22 15 42 29.7–.30 39.70N 143.35E 18 3.7,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=60.2km s-min=26.1km az=72.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC IV 22 15 50 28.9–2.1 36.23N 142.75E 0 3.6,3.5
¶17201828
IDC Error ellipse: s-maj=48.1km s-min=26.6km az=84.0.
ISC IV 22 16 27 39.7–.41 37.20N–.04 144.11E–.04 30–2 4.9b,4.3s 774 3-145
NIED IV 22 16 27 00 37.30N 144.00E 8 4.8W,4.3s **¶16451862**
IDC IV 22 16 27 34.5–.47 37.07N 144.29E 0 4.7,4.7
ISCJB IV 22 16 27 39.6–.13 37.23N–.03 144.06E–.02 37 4.8b,4.3s
JMA IV 22 16 27 39.2–.20 37.25N 143.97E 57 4.8,4.3s
BJI IV 22 16 27 39.0 37.49N 144.15E 34 5.0b,4.8b
MOS IV 22 16 27 40.6–.95 37.53N 144.06E 33 5.1b,4.8b
NEIC IV 22 16 27 40.7–.69 37.08N 144.12E 38–6 4.9b,4.8b
GCMT IV 22 16 27 40.7–.30 37.22N 144.08E 17–0 5.0W,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ37.00000°,λ-112.00000°. NP2:ϕ_s230.00000°,δ56.00000°,λ-74.00000°. $M_0$1.53000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=10.6km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.1km az=174.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.8km s-min=4.1km az=111.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=152.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c45; s75,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.91±.16 $M_{\theta\theta}$1.16±.11; $M_{\phi\phi}$1.76±.11; $M_{r\theta}$0.70±.29; $M_{\theta\phi}$1.67±.07; $M_{\phi r}$1.94±.31; Best double couple: NP1:ϕ_s208.00000°,δ62.00000°,λ-101.00000°. NP2:ϕ_s52.00000°,δ30.00000°,λ-69.00000°. Principal axes: T 3.7310,Plg17.0000°,Azm307.0000°; N -0.1090,Plg10.0000°,Azm214.0000° ; P -3.6130,Plg70.0000°,Azm94.0000° $M_0$3.67200×10^{16}
ISC IV 22 20 08 19.2–2.9 37.17N–.06 142.50E–.08 9–16 3.3b 25 1-57
IDC IV 22 20 08 16.0–2.3 37.19N 142.91E 0 3.5,3.4b **¶17201837**
JMA IV 22 20 08 19.5–.20 37.12N 142.56E 18 3.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=50.7km s-min=31.9km az=54.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 22 20 28 43.9–.86 35.44N–.06 142.83E–.08 59 3.4b 30 2-76
IDC IV 22 20 28 36.6–.93 35.48N 142.97E 0 3.7,3.5 **¶17201838**
JMA IV 22 20 28 37.1–.60 35.48N 143.10E 40 3.5,3.5
ISCJB IV 22 20 28 41.9–.63 35.41N–.05 142.75E–.05 59 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 21 23 32.7–2.6 37.81N–.05 142.27E–.07 13–16 3.6b 27 1-63
NIED IV 22 21 23 00 37.80N 142.10E 29 3.7W **¶17201839**
JMA IV 22 21 23 35.9–.10 37.79N 142.11E 23–3 3.9
IDC IV 22 21 23 37.1–2.4 37.84N 142.44E 48–23 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ10.00000°,λ141.00000°. NP2:ϕ_s341.00000°,δ84.00000°,λ82.00000°. $M_0$3.85000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=22.9km s-min=15.7km az=114.0.
ISC IV 22 21 48 50.6–.77 35.44N–.05 142.74E–.07 59 3.7b 38 2-81
NIED IV 22 21 48 00 35.50N 142.80E 5 3.7W **¶16577865**
IDC IV 22 21 48 42.7–.78 35.36N 142.96E 0 3.9,3.9L
NEIC IV 22 21 48 47.5–.72 35.37N 142.97E 35 4.0b,3.9L
JMA IV 22 21 48 47.4–.50 35.49N 142.84E 62 3.7,3.9L
ISCJB IV 22 21 48 48.7–.56 35.37N–.05 142.76E–.05 59 3.7b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ31.00000°,λ-89.00000°. NP2:ϕ_s207.00000°,δ59.00000°,λ-90.00000°. $M_0$3.99000×10^{14}
NEIC Event type se.
ISCJB Event type se.
ISC IV 22 22 59 18.3–.63 36.69N–.06 142.29E–.08 19 4.0b 44 1-90
ISCJB IV 22 22 59 16.2–.46 36.64N–.05 142.32E–.06 19 3.9b,2.7s **¶16505495**
JMA IV 22 22 59 18.0–.40 36.76N 142.23E 23 4.0,2.7s
IDC IV 22 22 59 21.3–2.0 36.61N 142.16E 43–19 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.1km az=138.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.6km s-min=12.3km az=104.0.
IDC IV 23 00 31 56.6–8.6 37.87N 144.74E 0 3.6,3.6b
¶17201846
IDC Error ellipse: s-maj=134.4km s-min=70.0km az=123.0.
IDC IV 23 00 34 11.3–2.8 35.77N 142.46E 0 3.6,3.6b
¶17201847
IDC Error ellipse: s-maj=63.0km s-min=27.8km az=67.0.

ISC IV 23 00 56 06.3–1.1 39.83N–.06 143.4E–.10 6 3.9b 20 2-72
ISCJB IV 23 00 56 03.7–.83 39.78N–.05 143.6E–.10 6 3.7b,3.1s **¶17201848**
JMA IV 23 00 56 06.1–.20 39.85N 143.50E 19 4.2,3.1s
IDC IV 23 00 56 11.3–3.1 39.79N 143.38E 45–28 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.4km az=26.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=18.8km az=89.0.
ISC IV 23 01 04 24.0–1.8 38.33N–.09 144.52E–.09 29 3.5b 24 2-69
NIED IV 23 01 04 00 38.30N 144.30E 5 3.6W **¶17201849**
ISCJB IV 23 01 04 23.2–1.1 38.41N–.06 144.46E–.07 29 3.6b
IDC IV 23 01 04 24.8–2.3 38.80N 144.02E 0 3.7,3.6b
JMA IV 23 01 04 25.0–.30 38.28N 144.30E 41 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ23.00000°,λ-66.00000°. NP2:ϕ_s195.00000°,δ69.00000°,λ-100.00000°. $M_0$3.31000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.0km az=139.6.
IDC Error ellipse: s-maj=58.6km s-min=35.7km az=86.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 23 02 40 56.1–1.1 38.9N–.10 143.4E–.10 20 3.7b 16 1-68
NIED IV 23 02 40 00 38.80N 143.50E 8 3.5W **¶17201856**
JMA IV 23 02 40 51.5–.30 38.77N 143.50E 0 3.8
ISCJB IV 23 02 40 53.8–.99 38.8N–.10 143.54E–.10 20 3.7b
IDC IV 23 02 40 60.0–5.0 38.72N 143.40E 56–46 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ47.00000°,λ-116.00000°. NP2:ϕ_s216.00000°,δ49.00000°,λ-65.00000°. $M_0$2.32000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=9.4km az=153.9.
IDC Error ellipse: s-maj=38.9km s-min=24.2km az=105.0.
ISC IV 23 04 16 10.5–3.5 40.42N–.05 143.78E–.07 10–21 4.1b 65 2-87
NIED IV 23 04 16 00 40.40N 143.70E 11 4.3W **¶16452513**
IDC IV 23 04 16 08.8–1.0 40.38N 143.77E 0 4.1,4.0
ISCJB IV 23 04 16 11.4–1.5 40.44N–.04 143.76E–.07 28–10 4.0b,4.0
JMA IV 23 04 16 11.6–.20 40.45N 143.66E 24 4.3,4.0
NEIC IV 23 04 16 13.4–.57 40.28N 143.68E 35 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s172.00000°,δ39.00000°,λ43.00000°. NP2:ϕ_s46.00000°,δ65.00000°,λ120.00000°. $M_0$2.82000×10^{15}
IDC Error ellipse: s-maj=24.9km s-min=15.0km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=4.5km az=33.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=8.2km az=141.0.
ISC IV 23 05 36 53.2–.66 39.98N–.05 143.77E–.09 16 3.9b 53 1-89
IDC IV 23 05 36 50.4–.72 39.91N 143.82E 0 4.0,3.9 **¶16505500**
ISCJB IV 23 05 36 51.1–.47 39.95N–.03 143.83E–.06 16 3.9b,3.9
JMA IV 23 05 36 53.7–.30 39.97N 143.66E 32 3.9,3.9
NEIC IV 23 05 36 54.8–2.6 39.96N 143.80E 28–18 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=15.0km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.9km az=25.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=114.0.
IDC IV 23 09 39 28.0–1.3 37.00N 143.78E 0 3.6,3.5L
¶602945444
IDC Error ellipse: s-maj=101.9km s-min=24.4km az=102.0.
ISC IV 23 09 48 35.1–1.5 37.36N–.06 144.42E–.09 35 26 3-61
IDC IV 23 09 48 30.6–2.1 37.26N 144.66E 0 3.7,3.5 **¶17201871**
ISCJB IV 23 09 48 33.2–.89 37.33N–.04 144.37E–.06 33 3.5b,3.5
JMA IV 23 09 48 36.8–.40 37.32N 144.17E 52 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=57.3km s-min=32.5km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.7km az=18.7.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC IV 23 11 38 09.2–2.2 36.65N–.05 142.19E–.05 2–13 4.3b 101 1-146
NIED IV 23 11 38 00 36.70N 142.10E 26 4.3W **¶16505505**
ISCJB IV 23 11 38 09.6–1.3 36.68N–.03 142.23E–.04 14–8 4.2b
IDC IV 23 11 38 10.1–.62 36.67N 141.96E 0 4.2,4.1
JMA IV 23 11 38 11.3–.20 36.69N 142.14E 24 4.4,4.1
MOS IV 23 11 38 12.6–.94 36.74N 142.19E 35 4.5b,4.1
NEIC IV 23 11 38 13.4–2.0 36.72N 142.09E 22–14 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ23.00000°,λ100.00000°. NP2:ϕ_s21.00000°,δ67.00000°,λ86.00000°. $M_0$2.82000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.2km az=161.5.
IDC Error ellipse: s-maj=15.8km s-min=13.1km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=6.4km az=109.9.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=125.0.
ISC IV 23 11 45 41.1–2.7 40.47N–.05 143.57E–.07 3–16 3.4b 31 1-87
IDC IV 23 11 45 40.7–.89 40.44N 143.65E 0 3.7,3.6 **¶17201876**
ISCJB IV 23 11 45 41.5–1.9 40.36N–.03 143.74E–.05 19–15 3.4b,3.6
JMA IV 23 11 45 42.2–.30 40.38N 143.63E 14–4 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=21.2km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=33.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 23 12 03 20.9–.20 37.99N 144.60E 39 3.9
¶600597247
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA IV 23 12 09 31.6–.20 38.04N 143.50E 41 3.6
¶600597254
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 23 12 16 07.5–2.2 38.40N–.08 144.6E–.10 10 3.6b 23 2-63
JMA IV 23 12 16 10.0–.20 38.35N 144.42E 28 4.1 **¶17201877**
IDC IV 23 12 16 26.1–3.1 37.33N 144.70E 0 4.0L,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=79.0km s-min=33.9km az=54.0.
JMA IV 23 12 20 23.0–.10 37.60N 142.54E 3–1 3.6
¶600597269
ISC IV 23 13 01 11.8–1.3 34.78N–.05 141.00E–.07 27–9 3.6b 21 0-55
JMA IV 23 13 01 09.5–.30 34.81N 141.18E 35–4 3.1 **¶600597288**
IDC IV 23 13 01 10.0–2.4 34.70N 140.72E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=56.9km s-min=20.3km az=81.0.
ISC IV 23 15 35 35.9–1.4 38.03N–.07 143.78E–.10 35 3.3b 25 2-62
IDC IV 23 15 35 29.5–1.9 37.94N 144.20E 0 3.6,3.6L **¶17201886**
ISCJB IV 23 15 35 33.3–.89 37.99N–.06 143.83E–.07 33 3.4b,3.6L
JMA IV 23 15 35 33.3–.20 37.97N 143.77E 41 3.5,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=52.9km s-min=22.9km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=8.1km az=161.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 23 17 28 18.2–.30 37.26N 142.24E 17 3.5
¶600597426
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 23 17 51 15.6–1.0 37.81N–.06 143.90E–.08 35 3.6b 26 2-62
IDC IV 23 17 51 10.7–.96 37.70N 144.04E 0 3.7,3.6 **¶17201897**
ISCJB IV 23 17 51 13.5–.71 37.74N–.05 143.87E–.06 33 3.5b,3.6
JMA IV 23 17 51 14.8–.20 37.86N 143.76E 24 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.8km s-min=18.8km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.2km az=136.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 23 18 54 02.8–1.2 39.66N–.07 143.44E–.08 11 3.5b 21 1-67
ISCJB IV 23 18 53 59.7–.86 39.62N–.06 143.68E–.08 11 3.5b **¶17201900**
JMA IV 23 18 53 59.7–.40 39.69N 143.63E 8–5 4.1
IDC IV 23 18 54 00.7–2.0 39.69N 143.53E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.8km az=29.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=50.1km s-min=20.0km az=87.0.
ISC IV 23 19 16 44.3–2.3 36.78N–.04 142.08E–.06 13–13 3.9b 54 1-90
NIED IV 23 19 16 00 36.80N 142.10E 20 3.9W **¶16631204**
IDC IV 23 19 16 42.4–.96 36.76N 142.14E 0 3.9,3.9L
ISCJB IV 23 19 16 43.9–1.4 36.78N–.04 142.22E–.05 23–10 4.1b,3.9L
JMA IV 23 19 16 43.4–.30 36.81N 142.14E 7–3 4.1,3.9L
NEIC IV 23 19 16 48.9–1.8 36.81N 142.06E 46–15 4.4b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s265.00000°,δ21.00000°,λ168.00000°. NP2:ϕ_s6.00000°,δ86.00000°,λ69.00000°. $M_0$6.80000×10^{14}
IDC Error ellipse: s-maj=23.8km s-min=20.1km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.0km az=151.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=12.1km az=71.0.
ISC IV 23 19 34 29.6–.83 36.91N–.04 143.93E–.04 25–5 4.8b,3.9s 488 2-146
NIED IV 23 19 34 00 36.90N 143.80E 5 4.6W,3.9s **¶16452965**
IDC IV 23 19 34 25.4–.48 36.81N 143.99E 0 4.7,4.6
ISCJB IV 23 19 34 26.6–.90 36.97N–.03 143.83E–.02 10–5 4.7b,4.0s
NEIC IV 23 19 34 26.6–1.4 36.86N 143.93E 6–8 4.9b,4.0s
JMA IV 23 19 34 29.2–.20 36.92N 143.78E 56 4.8,4.0s
BJI IV 23 19 34 30.1 37.15N 143.95E 37 4.9b,4.5b
MOS IV 23 19 34 30.8–.91 37.16N 143.85E 33 5.0b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ29.00000°,λ-131.00000°. NP2:ϕ_s243.00000°,δ69.00000°,λ-70.00000°. $M_0$9.77000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=10.9km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.7km az=172.6.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.5km az=150.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.6km s-min=4.7km az=113.0.
ISC IV 23 21 59 36.1–.48 37.33N–.04 144.09E–.05 29–2 4.6b,3.8s 334 2-145
NIED IV 23 21 59 00 37.40N 143.90E 8 4.4W,3.8s **¶16452978**
IDC IV 23 21 59 31.5–.49 37.22N 144.23E 0 4.4,4.3
JMA IV 23 21 59 35.8–.30 37.37N 143.93E 56 4.6,4.3
NEIC IV 23 21 59 36.3–.59 37.11N 144.21E 33–4 4.7b,4.3
ISCJB IV 23 21 59 36.1–.20 37.28N–.03 143.99E–.03 39 4.6b,3.8s
MOS IV 23 21 59 37.2–1.1 37.60N 144.00E 33 4.6b,3.8s
BJI IV 23 21 59 40.7 37.64N 143.67E 46 4.9b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ36.00000°,λ-71.00000°. NP2:ϕ_s199.00000°,δ56.00000°,λ-103.00000°. $M_0$4.34000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=12.2km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.9km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.0km az=167.7.
MOS Error ellipse: s-maj=9.0km s-min=5.4km az=117.9.
ISC IV 23 22 56 13.5–1.7 37.58N–.08 144.5E–.10 35 3.6b 23 3-68
ISCJB IV 23 22 56 12.6–1.1 37.55N–.06 144.42E–.08 33 3.8s,3.5b **¶17201915**
JMA IV 23 22 56 13.4–.30 37.65N 144.27E 18 3.9,3.5b
IDC IV 23 22 56 18.1–2.9 36.16N 143.92E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.7km az=144.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=70.3km s-min=28.7km az=46.0.
ISC IV 24 02 22 23.4–.61 37.24N–.06 142.56E–.06 35 4.1b 41 1-146
IDC IV 24 02 22 18.4–.68 37.24N 142.54E 0 4.1,4.0b **¶600597777**
JMA IV 24 02 22 20.7–.20 37.27N 142.61E 32 4.2,4.0b
ISCJB IV 24 02 22 21.2–.46 37.22N–.05 142.60E–.05 35 4.0b,2.9s
NEIC IV 24 02 22 21.6–2.6 37.26N 142.55E 20–18 4.3b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=16.0km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.3km az=167.6.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.4km az=125.0.
ISC IV 24 06 01 55.0–2.4 39.2N–.10 143.1E–.20 16 3.7b 10 1-59
JMA IV 24 06 01 57.2–.20 39.13N 142.96E 35–4 3.3 **¶17201930**
IDC IV 24 06 02 01.5–3.0 39.71N 141.71E 0 3.6,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=77.5km s-min=30.8km az=72.0.
ISC IV 24 06 13 33.4–1.0 37.98N–.05 144.54E–.09 35 3.4b 30 3-75
IDC IV 24 06 13 28.1–.95 37.86N 144.74E 0 4.2,4.2s **¶17201932**
ISCJB IV 24 06 13 31.0–.69 37.93N–.05 144.58E–.06 33 4.2s,3.4b
JMA IV 24 06 13 32.7–.20 38.00N 144.50E 45 3.9,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=30.5km s-min=19.9km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.4km az=39.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 24 06 20 45.9–1.5 37.48N–.08 143.5E–.10 35 3.7b 14 2-61
IDC IV 24 06 20 40.8–1.8 37.57N 143.66E 0 3.7,3.7 **¶17201935**
ISCJB IV 24 06 20 43.6–1.0 37.56N–.07 143.53E–.10 33 3.6b,3.7
JMA IV 24 06 20 45.0–.30 37.56N 143.42E 46 3.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=41.2km s-min=22.5km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=10.0km az=142.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 24 07 56 31.4–1.5 39.16N–.07 144.56E–.09 19 25 2-68
IDC IV 24 07 56 28.7–2.4 39.19N 144.68E 0 3.7,3.7b **¶17201946**
ISCJB IV 24 07 56 30.4–.96 39.19N–.05 144.55E–.06 19 3.7b,3.7b
JMA IV 24 07 56 32.9–.20 39.12N 144.49E 44 3.7,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=49.7km s-min=33.9km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.2km az=137.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 24 08 49 54.8–1.5 37.77N–.07 142.7E–.10 24 3.5b 16 1-58
NIED IV 24 08 49 00 37.70N 142.70E 14 3.5W **¶17201950**
IDC IV 24 08 49 49.4–2.9 37.78N 143.17E 0 3.6,3.5b
ISCJB IV 24 08 49 52.6–1.2 37.72N–.06 142.8E–.10 24 3.4b,3.5b
JMA IV 24 08 49 53.0–.20 37.69N 142.75E 38 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s316.00000°,δ33.00000°,λ-116.00000°. NP2:ϕ_s166.00000°,δ60.00000°,λ-74.00000°. $M_0$2.33000×10^{14}
IDC Error ellipse: s-maj=72.0km s-min=31.1km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=8.0km az=5.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 09 08 09.7–.87 36.72N–.05 142.24E–.07 19 3.6b 29 1-64
NIED IV 24 09 08 00 36.70N 142.40E 23 3.8W **¶17201951**
ISCJB IV 24 09 08 07.8–.69 36.65N–.04 142.43E–.07 19 3.5b,3.3s
JMA IV 24 09 08 07.1–.50 36.68N 142.38E 9–4 3.8,3.3s
IDC IV 24 09 08 07.5–.94 36.71N 142.29E 0 3.8L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ28.00000°,λ99.00000°. NP2:ϕ_s16.00000°,δ63.00000°,λ85.00000°. $M_0$4.81000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.0km az=178.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=26.7km s-min=18.5km az=106.0.
ISC IV 24 09 11 07.0–.69 37.19N–.08 142.56E–.06 9 3.9b 41 1-146
NIED IV 24 09 11 00 37.20N 142.70E 5 3.8W **¶16577879**
ISCJB IV 24 09 11 04.8–.41 37.14N–.04 142.63E–.04 9 4.0b
JMA IV 24 09 11 04.3–.40 37.19N 142.66E 9 4.1
IDC IV 24 09 11 05.2–.66 37.11N 142.51E 0 4.0,3.8
NEIC IV 24 09 11 10.7–.68 37.14N 142.52E 37–6 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ34.00000°,λ-20.00000°. NP2:ϕ_s332.00000°,δ79.00000°,λ-123.00000°. $M_0$5.16000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.8km az=170.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=15.7km az=121.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.3km az=121.0.

ISC IV 24 09 21 50.5–.88 38.62N–.05 144.32E–.07 29 3.5b 58 2-87
IDC IV 24 09 21 47.0–.90 38.50N 144.39E 0 3.7,3.6 **¶17201952**
ISCJB IV 24 09 21 49.5–.57 38.54N–.04 144.20E–.05 29 3.5b,3.6
JMA IV 24 09 21 50.3–.20 38.63N 144.20E 47 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.8km s-min=17.7km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=138.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 24 11 25 42.1–1.2 35.80N–.06 142.79E–.09 35 3.4b 19 2-64
IDC IV 24 11 25 36.9–1.2 35.77N 142.92E 0 3.6,3.5 **¶17201960**
ISCJB IV 24 11 25 39.8–.83 35.86N–.06 142.87E–.06 35 3.3b,3.5
JMA IV 24 11 25 40.8–.30 35.91N 142.67E 20 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=22.7km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=7.3km az=7.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 24 12 06 05.4–.40 36.71N 142.57E 47 3.6
NIED IV 24 12 06 00 36.70N 142.60E 20 3.6W **¶600598134**
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S202.00000°,δ26.00000°,λ98.00000°. NP2:ϕ_S14.00000°,δ64.00000°,λ86.00000°. $M_0$2.42000×10^{14}
ISC IV 24 12 30 26.5–.66 37.70N–.05 144.51E–.07 35 3.7b 42 3-75
NIED IV 24 12 30 00 37.70N 144.40E 5 3.8W **¶16577880**
NEIC IV 24 12 30 22.8–.48 37.62N 144.71E 10 4.4b
ISCJB IV 24 12 30 24.6–.49 37.67N–.05 144.47E–.04 33 3.8b
JMA IV 24 12 30 26.2–.30 37.73N 144.36E 55 4.0
IDC IV 24 12 30 26.6–.73 37.57N 144.64E 33–6 3.8,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S28.00000°,δ25.00000°,λ-63.00000°. NP2:ϕ_S179.00000°,δ68.00000°,λ-102.00000°. $M_0$6.31000×10^{14}
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.9km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=0.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=14.1km az=127.0.
ISC IV 24 13 48 29.6–1.1 36.66N–.04 142.34E–.08 15 3.5b 27 1-49
NIED IV 24 13 48 00 36.70N 142.40E 17 3.6W **¶17201964**
ISCJB IV 24 13 48 28.0–.72 36.67N–.03 142.51E–.07 15 3.5b
IDC IV 24 13 48 28.5–1.6 36.68N 142.37E 0 3.9,3.8
JMA IV 24 13 48 29.1–.30 36.69N 142.41E 22 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S230.00000°,δ28.00000°,λ120.00000°. NP2:ϕ_S17.00000°,δ66.00000°,λ75.00000°. $M_0$2.56000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.9km az=7.6.
IDC Error ellipse: s-maj=33.3km s-min=21.7km az=120.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 24 16 18 35.0–.61 38.28N–.04 143.56E–.04 19–2 4.9b,4.4s 522 2-146
IDC IV 24 16 18 31.9–.44 38.19N 143.57E 0 4.8,4.7 **¶16453019**
ISCJB IV 24 16 18 31.4–.75 38.24N–.02 143.52E–.02 5–4 4.8b,4.3s
JMA IV 24 16 18 34.7–.20 38.31N 143.54E 41 4.8,4.3s
BJI IV 24 16 18 34.2 38.29N 143.35E 18 5.1b,4.9b
NEIC IV 24 16 18 35.0–1.5 38.23N 143.50E 19–9 4.9b,4.9b
MOS IV 24 16 18 36.4–.96 38.41N 143.48E 33 5.0b,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=10.4km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.4km az=159.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=137.0.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=108.0.
ISC IV 24 18 12 08.5–.99 34.98N–.06 141.49E–.10 35 3.3b 20 1-71
IDC IV 24 18 12 03.4–1.0 35.02N 141.59E 0 3.6,3.5 **¶17201977**
ISCJB IV 24 18 12 05.9–.75 34.95N–.05 141.60E–.08 35 3.5b,3.5
JMA IV 24 18 12 06.5–.40 34.89N 141.40E 54–4 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=29.7km s-min=17.9km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.3km az=178.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 24 18 52 53.9–.20 37.72N 142.06E 26–4 3.6
NIED IV 24 18 52 00 37.70N 142.10E 23 3.3W **¶600598442**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S181.00000°,δ36.00000°,λ-89.00000°. NP2:ϕ_S360.00000°,δ54.00000°,λ-91.00000°. $M_0$1.00000×10^{14}
ISC IV 24 19 20 58.1–.76 38.42N–.06 144.69E–.07 29 3.8b 42 2-75
IDC IV 24 19 20 53.0–.80 38.28N 144.87E 0 3.9,3.7 **¶17201979**
ISCJB IV 24 19 20 56.5–.59 38.47N–.04 144.66E–.04 29 3.7b,3.7
JMA IV 24 19 20 57.2–.20 38.44N 144.64E 41 4.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=18.1km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.5km az=168.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 24 19 49 37.3–.61 40.33N–.04 143.70E–.05 23–3 4.5b,4.0s 254 1-146
NIED IV 24 19 49 00 40.30N 143.70E 26 4.5W,4.0s **¶16453174**
IDC IV 24 19 49 33.5–.53 40.25N 143.79E 0 4.6L,4.4
JMA IV 24 19 49 34.5–.30 40.34N 143.70E 10–4 4.4,4.4
ISCJB IV 24 19 49 35.1–.81 40.31N–.03 143.70E–.03 17–5 4.4b,4.0s
MOS IV 24 19 49 37.3–1.2 40.31N 143.69E 33 4.6b,4.0s
BJI IV 24 19 49 39.7 40.38N 143.42E 45 4.9b,4.6b
NEIC IV 24 19 49 39.7–.71 40.30N 143.62E 41–6 4.6b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S5.00000°,δ41.00000°,λ81.00000°. NP2:ϕ_S197.00000°,δ49.00000°,λ98.00000°. $M_0$6.58000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.5km az=107.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=136.6.
MOS Error ellipse: s-maj=7.7km s-min=5.0km az=97.8.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.5km az=135.0.
ISC IV 24 20 20 48.3–1.1 37.52N–.06 144.26E–.08 35 3.7b 30 2-69
IDC IV 24 20 20 43.0–1.1 37.43N 144.53E 0 3.7,3.5 **¶17201981**
ISCJB IV 24 20 20 46.6–.75 37.46N–.05 144.19E–.06 33 3.6b,3.5
JMA IV 24 20 20 47.9–.20 37.67N 144.05E 15 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.4km s-min=21.6km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.6km az=179.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 24 21 02 01.1–1.6 34.89N–.07 141.4E–.20 35 3.6b 11 0-55
IDC IV 24 21 01 56.9–2.2 34.74N 141.48E 0 3.4,3.4b **¶17201984**
ISCJB IV 24 21 01 59.3–1.6 34.89N–.07 141.4E–.20 35 3.5b,3.4b
JMA IV 24 21 01 59.2–.30 34.94N 141.32E 41–4 2.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=47.6km s-min=23.5km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=9.6km az=6.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 24 21 15 34.5–1.2 38.27N–.07 143.6E–.10 19 3.5b 18 2-62
IDC IV 24 21 15 31.3–1.2 38.15N 143.81E 0 3.8,3.7 **¶17201985**
ISCJB IV 24 21 15 32.7–.89 38.35N–.06 143.69E–.08 19 3.5b,3.7
JMA IV 24 21 15 36.3–.20 38.26N 143.47E 38 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=20.8km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.2km az=34.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 24 21 55 19.3–.99 34.98N–.05 141.42E–.10 27 3.6b 21 0-75
IDC IV 24 21 55 14.9–1.0 35.01N 141.63E 0 3.6,3.5 **¶17201989**
ISCJB IV 24 21 55 16.9–.78 34.94N–.05 141.58E–.08 27 4.5s,3.5b
JMA IV 24 21 55 19.3–.40 34.92N 141.36E 47–4 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=18.4km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.5km az=175.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 24 22 11 36.0–.52 37.18N–.04 142.13E–.06 19 4.0b 51 1-146
ISCJB IV 24 22 11 34.0–.39 37.16N–.03 142.34E–.05 19 3.9b **¶16649308**
IDC IV 24 22 11 33.4–.64 37.17N 142.28E 0 4.1L,4.0
NEIC IV 24 22 11 34.4–2.6 37.19N 142.28E 7–16 4.4b,4.0
JMA IV 24 22 11 34.9–.30 37.22N 142.26E 19 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=23.9.
IDC Error ellipse: s-maj=19.9km s-min=14.0km az=111.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 25 00 18 35.1–2.9 36.44N 143.93E 0 3.7,3.5
¶17201995
IDC Error ellipse: s-maj=80.6km s-min=29.9km az=59.0.
ISC IV 25 01 04 49.9–2.2 37.29N–.04 142.52E–.07 1–12 3.6b 34 1-83
IDC IV 25 01 04 49.3–.95 37.23N 142.92E 0 3.7,3.6 **¶17201997**
JMA IV 25 01 04 50.2–.30 37.32N 142.53E 3–4 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=18.4km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 25 01 39 09.3–.20 37.97N 142.41E 38–3 3.6
¶600598668
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 25 02 12 31.7–.85 39.79N–.07 143.41E–.07 6 3.9b 34 1-81
JMA IV 25 02 12 28.8–.40 39.86N 143.60E 2–5 4.4 **¶16505521**
ISCJB IV 25 02 12 29.5–.58 39.75N–.05 143.57E–.06 6 3.8b,3.7s
IDC IV 25 02 12 30.7–.97 39.79N 143.40E 0 3.9,3.8b
NEIC IV 25 02 12 35.5–2.5 39.81N 143.37E 31–17 4.4b,3.8b
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.9km az=146.3.
IDC Error ellipse: s-maj=28.9km s-min=16.7km az=95.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=7.1km az=110.0.
ISC IV 25 02 44 38.9–1.2 39.9N–.20 144.1E–.20 16 3.5b 8 6-73
ISCJB IV 25 02 44 36.8–.98 39.8N–.10 144.1E–.20 16 3.5b **¶17202004**
IDC IV 25 02 44 42.4–5.2 39.87N 144.04E 41–47 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.5km s-min=16.9km az=23.3.
IDC Error ellipse: s-maj=34.4km s-min=20.3km az=85.0.
ISC IV 25 04 40 41.1–1.6 38.08N–.09 143.3E–.30 35–11 3.7b 21 2-80
NIED IV 25 04 40 00 38.20N 142.90E 5 3.8W **¶17202016**
IDC IV 25 04 40 34.4–1.7 37.97N 143.70E 0 4.0L,3.9
ISCJB IV 25 04 40 41.3–1.4 38.07N–.06 143.1E–.10 53–12 3.7b,3.0s
JMA IV 25 04 40 43.5–.30 38.17N 142.92E 35 3.8,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S321.00000°,δ46.00000°,λ158.00000°. NP2:ϕ_S67.00000°,δ75.00000°,λ46.00000°. $M_0$4.78000×10^{14}
IDC Error ellipse: s-maj=46.0km s-min=21.1km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=9.3km az=24.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA IV 25 05 36 05.2–.30 37.93N 144.22E 31 3.6
¶600598782
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA IV 25 05 39 51.0–.20 38.05N 144.52E 24 4.1
¶600598784
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 25 09 09 33.5–.51 37.47N–.04 143.80E–.04 27–2 4.9b,4.4s 800 2-150
NIED IV 25 09 09 00 37.50N 143.70E 8 4.8W,4.4s **¶16456748**
ISCJB IV 25 09 09 30.1–.99 37.42N–.03 143.80E–.02 14–6 4.8b,4.3s
JMA IV 25 09 09 32.5–.30 37.46N 143.72E 50 4.6,4.3s
NEIC IV 25 09 09 32.8–1.9 37.40N 143.83E 19–11 5.0b,4.3s
GCMT IV 25 09 09 32.8–.30 37.52N 143.90E 19–1 4.9W,4.3s
IDC IV 25 09 09 32.7–6.4 37.34N 143.89E 23–41 4.5,4.5
MOS IV 25 09 09 35.0–.86 37.84N 143.65E 33 5.1b,4.0s
BJI IV 25 09 09 39.7 37.92N 143.13E 40 5.0b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S34.00000°,δ35.00000°,λ-84.00000°. NP2:ϕ_S207.00000°,δ55.00000°,λ-94.00000°. $M_0$1.54000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.6km az=171.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.2km az=144.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c17; s78,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.29±.21 $M_{\theta\theta}$1.19±.12; $M_{\phi\phi}$2.10±.13; $M_{r\theta}$0.36±.27; $M_{\theta\phi}$1.25±.06; $M_{\phi r}$0.01±.24; Best double couple: NP1:ϕ_S220.00000°,δ47.00000°,λ-84.00000°. NP2:ϕ_S30.00000°,δ43.00000°,λ-97.00000°. Principal axes: T 2.9830,Plg2.0000°,Azm305.0000°; N 0.3390,Plg5.0000°,Azm35.0000°; P -3.3210,Plg85.0000°,Azm192.0000° $M_0$3.15200×10^{16}
IDC Error ellipse: s-maj=14.1km s-min=10.7km az=127.0.
MOS Error ellipse: s-maj=7.7km s-min=5.4km az=100.5.
ISC IV 25 09 20 38.0–1.2 37.44N–.05 143.72E–.09 35 3.8b 37 2-61
IDC IV 25 09 20 33.2–1.1 37.38N 143.83E 0 3.8,3.8 **¶17202034**
ISCJB IV 25 09 20 36.3–.75 37.43N–.04 143.71E–.05 33 3.7b,3.8
JMA IV 25 09 20 37.8–.20 37.48N 143.64E 46 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=21.0km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.3km az=30.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 25 10 06 43.3–1.7 39.73N–.05 143.53E–.05 0–9 4.2b,3.6s 103 1-87
NIED IV 25 10 06 00 39.70N 143.60E 17 4.2W,3.6s **¶16466068**
ISCJB IV 25 10 06 42.9–1.1 39.69N–.03 143.59E–.04 9–7 4.1b,3.5s
IDC IV 25 10 06 43.9–.67 39.72N 143.36E 0 4.0,3.9
JMA IV 25 10 06 43.5–.30 39.71N 143.58E 14–4 4.3,3.9
MOS IV 25 10 06 46.7–.95 39.79N 143.50E 33 4.4b,3.9
NEIC IV 25 10 06 49.1–.80 39.74N 143.40E 35–7 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S224.00000°,δ29.00000°,λ117.00000°. NP2:ϕ_S14.00000°,δ64.00000°,λ76.00000°. $M_0$2.34000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.2km az=145.1.
IDC Error ellipse: s-maj=17.5km s-min=14.8km az=109.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=10.0km s-min=6.3km az=95.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.2km az=113.0.
JMA IV 25 10 49 59.2–.20 37.99N 144.30E 0 3.6
¶600598940
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC IV 25 12 02 15.8–13 39.70N 144.02E 0 4.0,4.0s
¶17202049
IDC Error ellipse: s-maj=283.5km s-min=66.7km az=177.0.
JMA IV 25 12 05 32.8–.20 36.79N 142.11E 48 3.5
NIED IV 25 12 05 00 36.80N 142.10E 29 3.5W **¶600598972**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S174.00000°,δ53.00000°,λ-48.00000°. NP2:ϕ_S297.00000°,δ53.00000°,λ-132.00000°. $M_0$1.77000×10^{14}
ISC IV 25 14 55 47.6–.76 39.66N–.07 143.49E–.07 11 4.0b,3.5s 38 1-84
JMA IV 25 14 55 44.6–.20 39.75N 143.61E 6 4.1,3.5s **¶16505528**
ISCJB IV 25 14 55 45.3–.52 39.62N–.05 143.61E–.06 11 3.8b,3.4s
IDC IV 25 14 55 51.5–2.6 39.66N 143.42E 40–22 3.9,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.8km az=155.7.
IDC Error ellipse: s-maj=21.5km s-min=14.7km az=108.0.
ISC IV 25 15 29 34.1–1.5 35.52N–.06 142.95E–.09 59 3.4b 26 2-56
IDC IV 25 15 29 29.4–2.2 35.44N 143.04E 0 3.5,3.5 **¶17202055**
ISCJB IV 25 15 29 32.4–.94 35.57N–.04 142.96E–.07 59 3.4b,3.5
JMA IV 25 15 29 33.1–.30 35.57N 142.85E 81 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=42.2km s-min=28.4km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.6km az=24.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 25 16 24 46.2–2.6 39.82N–.07 143.56E–.10 1–13 24 1-3
NIED IV 25 16 24 00 39.70N 143.50E 20 3.6W **¶600599117**
JMA IV 25 16 24 48.0–.20 39.74N 143.51E 7–3 3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S147.00000°,δ40.00000°,λ34.00000°. NP2:ϕ_S30.00000°,δ69.00000°,λ125.00000°. $M_0$2.43000×10^{14}

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 25 16 54 51.5–1.3 36.2N–.10 143.3E–.10 29 3.7b 8 4-60
IDC IV 25 16 54 47.4–2.0 36.28N 143.40E 0 3.7,3.6 ¶17202062
ISCJB IV 25 16 54 49.3–1.2 36.23N–.10 143.4E–.20 29 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 25 17 18 40.9–.30 37.14N 143.70E 46 3.5
¶600599147
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 25 18 05 21.2–1.6 36.08N–.07 142.5E–.10 23 3.4b 18 1-60
ISCJB IV 25 18 05 19.5–1.0 36.13N–.06 142.44E–.10 23 3.4b ¶17202066
IDC IV 25 18 05 19.9–1.7 36.03N 142.37E 0 3.5,3.5
JMA IV 25 18 05 24.1–.20 36.17N 142.08E 58 3.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.9km az=3.9.
IDC Error ellipse: s-maj=35.6km s-min=22.7km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 25 18 07 58.1–3.4 37.70N–.06 143.59E–.08 4–23 3.8b 34 2-62
IDC IV 25 18 07 57.4–1.1 37.53N 143.76E 0 3.9,3.8 ¶17202068
JMA IV 25 18 08 00.8–.20 37.71N 143.50E 39 3.6,3.8
NIED IV 25 18 08 00 37.70N 143.50E 5 3.7W,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.6km s-min=19.5km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ18.00000°,λ-98.00000°. NP2:ϕ_s236.00000°,δ73.00000°,λ-88.00000°. M_o4.62000×10^{14}
ISC IV 25 18 37 31.7–.51 39.03N–.05 143.53E–.06 20–1 4.2b,2.9s 146 1-88
JMA IV 25 18 37 30.5–.10 38.97N 143.58E 37 4.3,2.9s ¶16466076
IDC IV 25 18 37 32.6–.50 38.91N 143.47E 23–3 4.1,4.1
NEIC IV 25 18 37 32.6–2.2 39.01N 143.50E 22–15 4.4b,4.1
MOS IV 25 18 37 32.1–1.3 39.07N 143.54E 33 4.5b,4.1
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.5km s-min=10.4km az=113.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.1km az=121.0.
MOS Error ellipse: s-maj=8.7km s-min=5.7km az=95.6.
IDC IV 25 18 48 14.8–2.3 36.98N 143.45E 0 3.5,3.5
¶17202069
IDC Error ellipse: s-maj=57.1km s-min=24.7km az=65.0.
ISC IV 25 19 33 15.6–1.7 38.14N–.08 144.1E–.20 35 15 2-88
NIED IV 25 19 33 00 38.10N 144.00E 8 3.5W ¶17202074
IDC IV 25 19 33 11.2–1.4 38.05N 144.52E 0 4.0,4.0
ISCJB IV 25 19 33 14.7–.82 38.16N–.05 144.06E–.07 33 3.9b,3.8s
JMA IV 25 19 33 15.7–.20 38.13N 143.97E 43 3.6,3.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s255.00000°,δ82.00000°,λ-5.00000°. NP2:ϕ_s345.00000°,δ85.00000°,λ-172.00000°. M_o1.92000×10^{14}
IDC Error ellipse: s-maj=42.9km s-min=26.3km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.5km az=169.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 25 21 14 10.7–.74 36.83N–.03 142.23E–.03 2–4 5.0b,4.4s 653 1-154
NIED IV 25 21 14 00 36.90N 142.20E 23 4.9W,4.4s ¶16459946
ISCJB IV 25 21 14 11.0–.78 36.85N–.02 142.18E–.02 10–4 4.9b,4.5s
IDC IV 25 21 14 10.9–.48 36.83N 142.12E 0 4.8,4.8
JMA IV 25 21 14 12.9–.20 36.87N 142.22E 25–4 5.0,4.8
BJI IV 25 21 14 12.1 36.86N 141.72E 7 5.2b,5.0b
GCMT IV 25 21 14 14.4–.40 36.84N 142.07E 15 5.1W,5.0b
NEIC IV 25 21 14 14.4–1.1 36.85N 142.17E 22–8 4.9b,5.0b
MOS IV 25 21 14 14.3–1.0 36.93N 142.12E 31 5.2b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ14.00000°,λ73.00000°. NP2:ϕ_s5.00000°,δ76.00000°,λ94.00000°. M_o2.25000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.4km az=164.7.
IDC Error ellipse: s-maj=13.8km s-min=11.1km az=94.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s65,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.00±.11 $M_{\theta\theta}$0.09±.09; $M_{\phi\phi}$-1.09±.07; $M_{r\theta}$0.53±.27; $M_{\theta\phi}$0.30±.05; $M_{\phi r}$5.02±.24; Best double couple: NP1:ϕ_s6.00000°,δ84.00000° ,λ95.00000°. NP2:ϕ_s147.00000°,δ7.00000°,λ51.00000°. Principal axes: T 5.1520,Plg50.0000°,Azm281.0000°; N 0.0200,Plg5.0000°,Azm185.0000° ; P -5.1750,Plg39.0000°,Azm91.0000° M_o5.16400×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.8km az=138.0.
MOS Error ellipse: s-maj=6.6km s-min=4.1km az=109.3.
ISC IV 25 22 14 28.9–1.4 36.55N–.06 143.95E–.10 35 3.5b 28 3-61
NIED IV 25 22 14 00 36.60N 143.70E 35 3.6W ¶17202083
IDC IV 25 22 14 23.6–1.9 36.49N 144.20E 0 3.8L,3.6
ISCJB IV 25 22 14 28.0–.89 36.48N–.05 143.86E–.06 33 3.5b,3.6
JMA IV 25 22 14 30.6–.30 36.61N 143.74E 57 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ41.00000°,λ160.00000°. NP2:ϕ_s96.00000°,δ77.00000°,λ51.00000°. M_o2.60000×10^{14}
IDC Error ellipse: s-maj=46.8km s-min=26.1km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.4km az=13.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 25 22 37 52.7–.20 36.81N 143.65E 12 3.5
¶600599389
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 25 23 12 55.2–.20 37.47N 143.49E 33 3.6
NIED IV 25 23 12 00 37.50N 143.50E 32 3.5W ¶600599405
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ79.00000°,λ179.00000°. NP2:ϕ_s57.00000°,δ89.00000°,λ11.00000°. M_o1.78000×10^{14}
JMA IV 26 00 20 40.3–.20 38.35N 143.74E 11 3.5
¶600599447
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 26 02 17 35.5–1.1 37.8N–.20 143.3E–.20 19 3.6b 10 4-71
IDC IV 26 02 17 32.5–1.0 37.86N 143.30E 0 3.8,3.7b ¶17202101
ISCJB IV 26 02 17 33.3–.83 37.8N–.10 143.3E–.20 19 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 03 08 10.0–1.2 37.74N–.07 144.06E–.09 35 3.5b 24 2-62
IDC IV 26 03 08 04.9–1.2 37.65N 144.27E 0 3.7,3.6L ¶17202104
ISCJB IV 26 03 08 08.1–.85 37.69N–.05 144.04E–.06 33 3.5b,3.6L
JMA IV 26 03 08 08.2–.20 37.81N 144.02E 28 3.5,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=26.7km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.8km az=145.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC IV 26 03 52 27.7–.94 36.00N–.06 143.93E–.08 35 3.5b 26 3-64
NIED IV 26 03 52 00 36.10N 143.70E 5 3.5W ¶17202107
IDC IV 26 03 52 24.8–1.2 36.08N 143.95E 0 3.8L,3.7
ISCJB IV 26 03 52 26.8–.79 36.00N–.06 143.81E–.07 33 3.5b,3.7
JMA IV 26 03 52 28.5–.50 36.13N 143.72E 59 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ39.00000°,λ-161.00000°. NP2:ϕ_s243.00000°,δ78.00000°,λ-52.00000°. M_o2.27000×10^{14}
IDC Error ellipse: s-maj=31.2km s-min=20.7km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.8km az=5.2.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC IV 26 04 35 58.7–.62 37.24N–.05 144.20E–.07 35 3.9b 49 3-88
NIED IV 26 04 35 00 37.20N 144.10E 5 3.8W ¶16577895
IDC IV 26 04 35 53.2–.69 37.14N 144.35E 0 4.0,3.9L
NEIC IV 26 04 35 54.8–.34 37.19N 144.37E 10 4.2b,3.9L
ISCJB IV 26 04 35 56.7–.44 37.23N–.04 144.17E–.04 35 4.1s,3.8b
JMA IV 26 04 35 57.5–.40 37.19N 144.08E 47 4.3,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ39.00000°,λ-79.00000°. NP2:ϕ_s191.00000°,δ52.00000°,λ-99.00000°. M_o5.79000×10^{14}
IDC Error ellipse: s-maj=19.3km s-min=15.2km az=117.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.1km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=4.7.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC IV 26 05 14 19.8–.63 36.24N–.06 144.01E–.07 35 3.9b 47 3-89
NIED IV 26 05 14 00 36.30N 143.90E 11 3.9W ¶16649421
IDC IV 26 05 14 14.5–.60 36.18N 144.19E 0 4.1,4.0
ISCJB IV 26 05 14 17.8–.45 36.22N–.04 143.99E–.04 33 3.9b,2.8s
NEIC IV 26 05 14 19.8–.40 36.20N 144.11E 35 4.3b,2.8s
JMA IV 26 05 14 19.4–.40 36.32N 143.89E 82 3.8,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ22.00000°,λ-89.00000°. NP2:ϕ_s205.00000°,δ68.00000°,λ-91.00000°. M_o6.98000×10^{14}
IDC Error ellipse: s-maj=17.8km s-min=14.7km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.5km az=159.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.5km az=110.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 26 10 03 02.9–1.0 37.63N–.04 144.02E–.05 15–6 4.3b,3.4s 153 2-92
IDC IV 26 10 02 59.4–.52 37.47N 144.19E 0 4.3,4.2 ¶16460258
NIED IV 26 10 03 00 37.60N 144.00E 5 4.0W,4.2
ISCJB IV 26 10 03 00.3–.99 37.53N–.03 144.01E–.03 14–6 4.3b,3.6s
MOS IV 26 10 03 02.6–1.1 37.39N 144.17E 36 4.4b,3.6s
JMA IV 26 10 03 03.1–.20 37.60N 143.96E 44 4.5,3.6s
NEIC IV 26 10 03 04.7–.40 37.51N 144.12E 35 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=11.8km az=104.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ43.00000°,λ-87.00000°. NP2:ϕ_s203.00000°,δ47.00000°,λ-93.00000°. M_o1.28000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=153.0.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=122.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.0km az=125.0.
ISC IV 26 11 39 56.0–1.1 40.32N–.07 143.77E–.10 16 3.4b 18 2-61
IDC IV 26 11 39 53.8–1.3 40.34N 143.95E 0 3.6,3.5 ¶17202129
ISCJB IV 26 11 39 54.4–.86 40.31N–.06 143.85E–.09 16 3.3b,3.5
JMA IV 26 11 39 54.6–.40 40.36N 143.76E 15–5 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.9km s-min=24.8km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.6km az=25.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 26 12 18 13.9–4.1 37.56N–.05 143.93E–.07 26–29 4.0b 62 2-87
IDC IV 26 12 18 09.9–.55 37.49N 144.10E 0 4.1,4.1L ¶16505537
ISCJB IV 26 12 18 12.6–1.6 37.54N–.04 143.91E–.04 30–11 4.0b,4.1L
JMA IV 26 12 18 13.8–.20 37.59N 143.79E 42 4.4,4.1L
NEIC IV 26 12 18 15.0–.45 37.53N 144.07E 35 4.5b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=12.3km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=153.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.8km az=117.0.
ISC IV 26 12 38 28.4–.80 34.70N–.10 142.8E–.10 10 3.6b 13 3-75
ISCJB IV 26 12 38 26.3–.69 34.70N–.08 142.83E–.10 10 3.7b ¶17202133
IDC IV 26 12 38 26.8–.75 34.67N 143.06E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=9.1km az=139.7.
IDC Error ellipse: s-maj=26.7km s-min=16.7km az=109.0.
ISC IV 26 12 39 00.1–.85 34.9N–.10 142.6E–.10 35 3.9b 10 3-75
IDC IV 26 12 38 55.5–.82 34.83N 142.78E 0 3.9,3.8 ¶17202136
ISCJB IV 26 12 38 58.3–.77 34.8N–.10 142.6E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 12 55 06.6–.74 34.70N–.06 142.76E–.07 35 3.6b 24 1-76
IDC IV 26 12 55 01.9–.74 34.73N 142.89E 0 3.9,3.8 ¶17202138
JMA IV 26 12 55 03.0–.60 34.90N 142.89E 51 3.7,3.8
ISCJB IV 26 12 55 04.7–.62 34.82N–.06 142.75E–.05 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 12 55 33.0–.86 34.76N–.09 142.6E–.10 42 3.6b 10 3-65
IDC IV 26 12 55 27.4–.92 34.86N 142.50E 0 3.9,3.9L ¶17202141
ISCJB IV 26 12 55 30.9–.76 34.74N–.08 142.6E–.10 42 3.7b,3.9L
ISC Event type ke.
ISCJB Event type ke.
IDC IV 26 14 10 14.1–1.3 36.98N 144.42E 0 3.8,3.6
¶17202144
IDC Error ellipse: s-maj=33.0km s-min=23.1km az=85.0.
IDC IV 26 14 10 21.9–2.6 37.20N 144.57E 0 3.7,3.6L
¶17202147
IDC Error ellipse: s-maj=58.8km s-min=30.9km az=44.0.
ISC IV 26 14 22 46.7–.70 39.33N–.05 143.52E–.07 11 3.6b,3.1s 36 1-75
JMA IV 26 14 22 41.3–.30 39.40N 143.98E 2 4.5,3.1s ¶17202151
ISCJB IV 26 14 22 44.9–.56 39.39N–.05 143.77E–.07 11 3.6b,3.1s
IDC IV 26 14 22 49.7–5.5 39.38N 143.65E 30–40 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.5km az=37.2.
IDC Error ellipse: s-maj=21.1km s-min=16.5km az=117.0.
ISC IV 26 15 05 07.8–1.3 36.29N–.08 142.4E–.10 15 3.6b 10 3-56
ISCJB IV 26 15 05 06.3–1.4 36.43N–.08 142.5E–.10 15 3.6b,3.0s ¶17202157
IDC IV 26 15 05 09.6–2.2 36.49N 141.94E 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=9.0km az=33.5.
IDC Error ellipse: s-maj=47.1km s-min=25.8km az=83.0.
IDC IV 26 15 56 52.2–3.3 36.15N 142.25E 0 3.5,3.4
¶17202161
IDC Error ellipse: s-maj=66.1km s-min=34.8km az=65.0.
ISC IV 26 15 59 00.3–.94 39.76N–.05 144.76E–.05 17–5 4.4b,3.5s 159 2-86
ISCJB IV 26 15 58 58.6–1.1 39.84N–.03 144.62E–.04 15–7 4.3b,3.6s ¶16460952
IDC IV 26 15 58 58.0–.56 39.72N 144.70E 0 4.4,4.3
NEIC IV 26 15 58 58.4–2.7 39.77N 144.73E 2–16 4.6b,4.3
JMA IV 26 15 59 01.1–.20 39.83N 144.58E 41 4.4,4.3
MOS IV 26 15 59 01.2–1.0 39.83N 144.71E 33 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=140.1.
IDC Error ellipse: s-maj=15.1km s-min=12.0km az=115.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.4km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.6km az=102.5.
ISC IV 26 16 02 08.2–.45 34.84N–.05 142.84E–.05 35 4.5b,3.8s 152 2-147
NIED IV 26 16 02 00 34.80N 142.70E 8 4.2W,3.8s ¶16460953
IDC IV 26 16 02 03.0–.46 34.78N 142.87E 0 4.4,4.3
NEIC IV 26 16 02 04.5–3.2 34.77N 142.81E 10–19 4.6b,4.3
JMA IV 26 16 02 06.3–.40 34.84N 142.71E 42 4.3,4.3
ISCJB IV 26 16 02 06.5–.27 34.86N–.04 142.71E–.03 33 4.4b,3.6s
MOS IV 26 16 02 06.6–1.6 34.95N 142.87E 33 4.7b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ23.00000°,λ-88.00000°. NP2:ϕ_s181.00000°,δ67.00000°,λ-91.00000°. M_o1.90000×10^{15}
IDC Error ellipse: s-maj=14.0km s-min=11.5km az=108.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.0km az=112.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=179.9.
MOS Error ellipse: s-maj=9.3km s-min=5.6km az=102.1.
IDC IV 26 17 26 56.5–14 33.82N 141.94E 0 3.5,3.3
¶17202170
IDC Error ellipse: s-maj=529.8km s-min=38.0km az=65.0.
ISC IV 26 18 03 26.2–.65 36.50N–.05 143.29E–.05 23–3 4.8b,3.8s 256 2-146
NIED IV 26 18 03 00 36.60N 143.20E 5 4.4W,3.8s ¶16460958
IDC IV 26 18 03 22.4–.53 36.42N 143.35E 0 4.7,4.5
JMA IV 26 18 03 26.0–.40 36.56N 143.22E 59 4.5,4.5
ISCJB IV 26 18 03 26.6–.22 36.56N–.03 143.21E–.02 34 4.7b,3.7s
NEIC IV 26 18 03 27.9–.60 36.45N 143.27E 35–5 4.8b,3.7s
MOS IV 26 18 03 28.1–.83 36.89N 143.20E 33 4.9b,3.7s
ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ35.00000°,λ-92.00000°. NP2:ϕ_s211.00000°,δ55.00000°,λ-89.00000°. $M_0$4.00000×10^{15}
IDC Error ellipse: s-maj=14.5km s-min=12.4km az=121.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.8km az=173.9.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=3.7km az=149.0.
MOS Error ellipse: s-maj=8.1km s-min=5.3km az=103.2.
ISC IV 26 18 06 28.1–.45 36.42N–.05 143.19E–.06 29 4.7b 111 2-146
NIED IV 26 18 06 00 36.50N 143.20E 5 4.0W **¶16505539**
IDC IV 26 18 06 23.9–.64 36.40N 143.35E 0 4.3,4.1
ISCJB IV 26 18 06 26.2–.26 36.38N–.04 143.19E–.03 29 4.7b,4.1
JMA IV 26 18 06 27.7–.30 36.54N 143.18E 45 4.1,4.1
NEIC IV 26 18 06 29.0–.80 36.35N 143.25E 36–8 4.8b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ31.00000°,λ-79.00000°. NP2:ϕ_s208.00000°,δ59.00000°,λ-97.00000°. $M_0$1.02000×10^{15}
IDC Error ellipse: s-maj=17.8km s-min=15.2km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.1km az=169.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.0km az=144.0.
ISC IV 26 18 10 19.6–.55 36.44N–.06 143.27E–.07 35 4.4b 66 2-89
NIED IV 26 18 10 00 36.50N 143.20E 5 3.9W **¶16505540**
IDC IV 26 18 10 14.3–.78 36.37N 143.43E 0 4.1,3.9
NEIC IV 26 18 10 15.7–.35 36.38N 143.41E 10 4.6b,3.9
ISCJB IV 26 18 10 17.6–.34 36.43N–.04 143.24E–.04 33 4.3b,3.9
JMA IV 26 18 10 18.4–.20 36.51N 143.17E 57 3.8,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ35.00000°,λ-75.00000°. NP2:ϕ_s212.00000°,δ57.00000°,λ-100.00000°. $M_0$8.03000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=18.0km az=117.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.3km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=172.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 26 21 13 12.5–1.6 38.42N–.10 144.7E–.10 29 3.7b 19 2-63
NIED IV 26 21 13 00 38.40N 144.60E 5 3.6W **¶17202186**
IDC IV 26 21 13 08.3–2.3 38.20N 144.83E 0 3.7,3.6
ISCJB IV 26 21 13 10.9–1.1 38.36N–.07 144.63E–.08 29 3.8b,3.6
JMA IV 26 21 13 12.4–.20 38.43N 144.55E 40 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ20.00000°,λ-141.00000°. NP2:ϕ_s267.00000°,δ78.00000°,λ-74.00000°. $M_0$2.76000×10^{14}
IDC Error ellipse: s-maj=51.7km s-min=28.4km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=8.9km az=165.4.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 26 22 03 57.4–.83 36.09N–.08 142.66E–.08 18 4.3s,3.7b 15 4-84
IDC IV 26 22 03 54.9–1.2 36.04N 142.65E 0 4.3,4.2s **¶17202188**
ISCJB IV 26 22 03 55.8–.69 36.05N–.07 142.64E–.07 18 4.3s,3.6b
ISC Event type ke.
ISCJB Event type ke.
JMA IV 26 23 06 12.9–.30 36.67N 143.34E 49 3.8
¶600600269
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 26 23 37 27.4–.20 37.55N 142.03E 29–4 3.6
¶600600299
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC IV 27 02 38 20.4–12 35.92N 143.09E 0 3.5,3.4b
¶17202203
IDC Error ellipse: s-maj=327.1km s-min=26.7km az=171.0.
ISC IV 27 03 11 52.6–2.0 39.83N–.05 143.34E–.06 2–11 3.9b,3.5s 51 1-85
NIED IV 27 03 11 00 39.90N 143.30E 23 4.1W,3.5s **¶16505545**
JMA IV 27 03 11 54.4–.30 39.87N 143.32E 21–5 3.9,3.5s
IDC IV 27 03 11 58.2–2.9 39.82N 143.19E 40–25 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ23.00000°,λ79.00000°. NP2:ϕ_s30.00000°,δ68.00000°,λ95.00000°. $M_0$1.57000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.7km s-min=14.6km az=120.0.
JMA IV 27 03 12 29.3–.50 35.75N 143.20E 8 4.0
¶600600424
JMA Error ellipse: s-maj=4.4km s-min=3.6km az=-1.0.
ISC IV 27 05 20 27.1–2.5 36.19N–.05 142.7E–.10 8–14 3.7b 25 2-56
IDC IV 27 05 20 27.4–2.7 35.95N 142.77E 0 3.7,3.6 **¶17202210**
JMA IV 27 05 20 29.9–.30 36.30N 142.60E 33 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=61.3km s-min=28.6km az=66.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 27 07 36 25.8–.54 37.50N–.05 142.93E–.06 24 4.0b 51 2-145
IDC IV 27 07 36 22.5–.62 37.49N 142.87E 0 4.2,4.1 **¶16505548**
ISCJB IV 27 07 36 24.1–.40 37.46N–.04 142.90E–.04 24 4.0b,4.1
JMA IV 27 07 36 25.4–.30 37.52N 142.67E 10 4.4,4.1
NEIC IV 27 07 36 25.4–2.8 37.47N 142.95E 19–17 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=14.1km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.0km az=170.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=108.0.
ISC IV 27 08 06 51.2–.74 38.34N–.06 143.25E–.07 15 3.8b 34 1-76
NIED IV 27 08 06 00 38.40N 143.30E 11 3.7W **¶17202219**
IDC IV 27 08 06 48.7–.77 38.27N 143.27E 0 4.4,4.4s
ISCJB IV 27 08 06 49.6–.56 38.35N–.05 143.32E–.05 15 4.5s,3.9b
JMA IV 27 08 06 50.4–.20 38.39N 143.29E 19 4.1,3.9b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ39.00000°,λ69.00000°. NP2:ϕ_s251.00000°,δ54.00000°,λ106.00000°. $M_0$3.62000×10^{14}
IDC Error ellipse: s-maj=23.8km s-min=14.9km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.4km az=151.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 27 09 40 49.8–.93 36.4N–.10 144.1E–.10 35 3.8b 12 5-89
IDC IV 27 09 40 44.8–1.1 36.44N 144.25E 0 3.7,3.6b **¶17202223**
ISCJB IV 27 09 40 47.6–.83 36.33N–.09 144.1E–.10 33 3.8b,3.5s
ISC Event type ke.
ISCJB Event type ke.
JMA IV 27 10 06 01.7–.20 37.22N 142.44E 2–3 3.9
¶600600623
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 27 10 18 28.4–.40 35.78N 143.23E 82 3.5
¶600600632
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC IV 27 10 19 35.5–4.6 34.61N 142.57E 0 3.6,3.5b
¶17202227
IDC Error ellipse: s-maj=153.1km s-min=27.2km az=62.0.
ISC IV 27 11 40 24.8–1.5 38.44N–.06 144.05E–.08 10 23 2-63
JMA IV 27 11 40 21.6–.20 38.26N 144.42E 24 3.8 **¶17202231**
ISCJB IV 27 11 40 22.4–.96 38.35N–.05 144.30E–.07 10 3.5b
IDC IV 27 11 40 23.6–1.9 38.49N 144.06E 0 3.5,3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.6km az=36.2.
IDC Error ellipse: s-maj=59.3km s-min=26.7km az=86.0.
ISC IV 27 19 05 07.4–.99 37.26N–.07 142.29E–.08 21 3.6b 20 1-61
NIED IV 27 19 05 00 37.30N 142.40E 23 3.8W **¶17202250**
ISCJB IV 27 19 05 04.9–.68 37.18N–.06 142.48E–.06 21 3.6b
IDC IV 27 19 05 04.1–.99 37.20N 142.42E 0 3.8,3.7
JMA IV 27 19 05 06.0–.60 37.35N 142.40E 33 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ34.00000°,λ-149.00000°. NP2:ϕ_s243.00000°,δ74.00000°,λ-60.00000°. $M_0$5.85000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.0km az=141.8.
IDC Error ellipse: s-maj=27.2km s-min=17.3km az=98.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC IV 27 20 21 02.8–.52 34.08N–.05 141.53E–.07 24 4.0b,3.6s 59 1-148
ISCJB IV 27 20 21 00.7–.41 34.08N–.04 141.66E–.05 24 4.0b,3.4s **¶16466112**
NIED IV 27 20 21 00 34.10N 141.50E 35 4.2W,3.4s
MOS IV 27 20 21 01.8–1.5 34.16N 141.80E 33 4.3b,3.4s
JMA IV 27 20 21 03.2–.40 34.08N 141.51E 37–3 4.0,3.4s
IDC IV 27 20 21 06.6–.85 34.05N 141.45E 57–6 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.3km az=141.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s264.00000°,δ47.00000°,λ-143.00000°. NP2:ϕ_s147.00000°,δ64.00000°,λ-49.00000°. $M_0$2.29000×10^{15}
MOS Error ellipse: s-maj=15.5km s-min=7.1km az=100.6.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=16.9km s-min=14.2km az=112.0.
JMA IV 27 21 30 20.2–.20 37.95N 144.27E 42 3.7
¶600600995
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 27 21 42 49.2–.38 36.74N–.04 142.62E–.03 28–2 5.0b,4.8s 623 2-151
NIED IV 27 21 42 00 36.80N 142.60E 11 4.9W,4.8s **¶16465538**
IDC IV 27 21 42 44.7–.45 36.73N 142.65E 0 4.7,4.7
BJI IV 27 21 42 46.6 36.83N 142.78E 33 5.0s,4.9b
JMA IV 27 21 42 47.8–.30 36.79N 142.59E 68 4.8,4.9b
NEIC IV 27 21 42 47.1–1.9 36.80N 142.55E 10–11 5.1b,4.9b
GCMT IV 27 21 42 47.1–.40 36.85N 142.77E 15 5.0W,4.9b
MOS IV 27 21 42 49.9–.93 37.10N 142.49E 33 5.2b,4.6s
ISCJB IV 27 21 42 49.2–.16 36.83N–.03 142.53E–.02 33 4.9b,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s249.00000°,δ27.00000°,λ113.00000°. NP2:ϕ_s43.00000°,δ65.00000°,λ79.00000°. $M_0$2.79000×10^{16}
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c48; s65,c104;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.22±.09 $M_{\theta\theta}$-1.26±.07; $M_{\phi\phi}$-0.96±.07; $M_{r\theta}$2.78±.27; $M_{\theta\phi}$-1.45±.06; $M_{\phi r}$2.93±.29; Best double couple: NP1:ϕ_s44.00000°,δ75.00000°,λ88.00000°. NP2:ϕ_s233.00000°,δ15.00000°,λ99.00000°. Principal axes: T 4.5290,Plg60.0000°,Azm310.0000°; N 0.3350,Plg2.0000°,Azm45.0000° ; P -4.8630,Plg30.0000°,Azm136.0000° $M_0$4.69600×10^{16}
ISCJB Event type se.
JMA IV 27 22 01 31.0–.10 39.29N 143.12E 17–2 3.2
¶600601006
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 27 23 02 34.1–3.8 39.23N–.06 143.26E–.08 4–24 3.5b 25 1-59
IDC IV 27 23 02 32.5–2.2 39.38N 143.63E 0 3.6,3.5 **¶17202265**
JMA IV 27 23 02 36.2–.20 39.27N 143.21E 12–2 4.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=55.2km s-min=25.1km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 27 23 31 03.0–.30 37.28N 142.48E 5–4 3.9
NIED IV 27 23 31 00 37.30N 142.50E 5 3.7W **¶600601065**
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ12.00000°,λ-96.00000°. NP2:ϕ_s25.00000°,δ78.00000°,λ-89.00000°. $M_0$3.70000×10^{14}
JMA IV 27 23 33 29.7–.10 37.54N 142.01E 18–3 3.7
NIED IV 27 23 33 00 37.50N 142.00E 23 3.5W **¶600601069**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ36.00000°,λ-116.00000°. NP2:ϕ_s193.00000°,δ58.00000°,λ-72.00000°. $M_0$2.17000×10^{14}
ISC IV 28 00 02 23.4–.34 36.80N–.03 142.65E–.03 19–3 4.9b,4.8s 881 2-160
NIED IV 28 00 02 00 36.80N 142.60E 11 4.9W,4.8s **¶16465541**
ISCJB IV 28 00 02 20.0–.77 36.77N–.02 142.59E–.02 6–4 4.9b,4.8s
GCMT IV 28 00 02 22.8–.30 36.72N 142.67E 28–1 5.0W,4.8s
JMA IV 28 00 02 22.5–.10 36.79N 142.64E 54 5.0,4.8s
NEIC IV 28 00 02 22.8–1.5 36.72N 142.57E 16–9 4.9b,4.8s
IDC IV 28 00 02 23.6–5.5 36.74N 142.63E 21–35 4.7,4.7
MOS IV 28 00 02 24.5–.97 36.93N 142.56E 33 5.1b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ23.00000°,λ139.00000°. NP2:ϕ_s2.00000°,δ75.00000°,λ73.00000°. $M_0$2.85000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.1km az=166.5.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c41; s71,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.25±.21 $M_{\theta\theta}$-0.70±.12; $M_{\phi\phi}$-2.55±.13; $M_{r\theta}$1.10±.19; $M_{\theta\phi}$-1.47±.07; $M_{\phi r}$2.77±.19; Best double couple: NP1:ϕ_s24.00000°,δ66.00000° ,λ86.00000°. NP2:ϕ_s214.00000°,δ24.00000°,λ99.00000°. Principal axes: T 4.4080,Plg69.0000°,Azm286.0000°; N 0.0890,Plg4.0000°,Azm26.0000° ; P -4.4950,Plg21.0000°,Azm117.0000° $M_0$4.45100×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.8km az=139.0. Recorded [1 JMA] in Fukushima and Miyagi.
IDC Error ellipse: s-maj=12.0km s-min=9.2km az=100.0.
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=105.6.
ISC IV 28 01 47 17.9–4.2 35.35N–.06 142.73E–.07 15–26 4.4b 62 2-153
IDC IV 28 01 47 15.6–.51 35.35N 142.76E 0 4.5,4.3 **¶16505557**
ISCJB IV 28 01 47 16.1–1.8 35.25N–.04 142.72E–.05 15–11 4.3b,4.3
JMA IV 28 01 47 18.0–.40 35.40N 142.69E 43 4.4,4.3
NEIC IV 28 01 47 19.1–2.5 35.27N 142.72E 23–17 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=15.3km s-min=14.1km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.2km az=22.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.4km az=64.0.
ISC IV 28 02 20 51.2–.55 35.35N–.05 142.57E–.07 56 4.1b 49 1-147
NIED IV 28 02 20 00 35.40N 142.70E 5 4.1W **¶16577906**
IDC IV 28 02 20 43.6–.62 35.31N 142.77E 0 4.3,4.1
NEIC IV 28 02 20 45.2–.37 35.39N 142.78E 10 4.3b,4.1
JMA IV 28 02 20 47.4–.40 35.37N 142.65E 60 3.9,4.1
ISCJB IV 28 02 20 49.3–.41 35.29N–.04 142.52E–.04 56 4.1b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ29.00000°,λ-81.00000°. NP2:ϕ_s192.00000°,δ61.00000°,λ-95.00000°. $M_0$1.49000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC IV 28 03 28 51.5–.93 37.19N–.09 142.70E–.08 9 3.7b 25 1-75
NIED IV 28 03 28 00 37.20N 142.70E 14 3.8W **¶17202276**
ISCJB IV 28 03 28 49.3–.69 37.10N–.07 142.77E–.06 9 3.7b
JMA IV 28 03 28 52.3–.40 37.17N 142.71E 69 3.9
IDC IV 28 03 28 56.4–3.4 37.01N 142.65E 49–30 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ35.00000°,λ28.00000°. NP2:ϕ_s258.00000°,δ75.00000°,λ121.00000°. $M_0$5.00000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.0km az=175.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=24.5km s-min=18.7km az=92.0.
JMA IV 28 04 38 38.8–.20 37.80N 143.63E 37 3.6
¶600601220
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC IV 28 04 48 31.2–8.7 36.24N 143.65E 0 4.0,3.9b
¶17202277
IDC Error ellipse: s-maj=192.6km s-min=45.4km az=35.0.
ISC IV 28 04 49 24.9–1.5 36.4N–.10 142.09E–.10 19 3.8b 13 1-56
IDC IV 28 04 49 20.8–2.6 36.42N 142.33E 0 3.8,3.7 **¶17202280**
ISCJB IV 28 04 49 21.8–1.2 36.4N–.10 142.4E–.10 19 3.7b,3.7
JMA IV 28 04 49 25.1–.30 36.43N 142.07E 85 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=72.8km s-min=28.2km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=11.0km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA IV 28 06 48 34.7–.30 36.38N 143.94E 52 3.7
¶600601297
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA IV 28 10 45 43.4–.20 36.71N 142.12E 27–4 3.5
¶600601448
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 28 13 09 30.6–.20 38.46N 144.55E 24 3.6

¶600601555
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA IV 28 13 26 41.3–.30 36.66N 142.23E 28 3.6
¶600601561
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 28 13 30 32.0–.10 38.43N 144.10E 21 3.7
¶600601563
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 28 14 04 38.8–2.4 37.14N–.04 142.62E–.06 12–15 4.4b 120 1-146
IDC IV 28 14 04 37.4–.74 37.13N 142.67E 0 4.2,4.1 ¶16483648
ISCJB IV 28 14 04 38.7–1.2 37.16N–.03 142.67E–.04 25–8 4.6s,4.3b
JMA IV 28 14 04 38.2–.20 37.17N 142.67E 23 4.5,4.3b
NEIC IV 28 14 04 38.4–.48 37.15N 142.72E 10 4.5b,4.3b
MOS IV 28 14 04 41.6–1.4 37.31N 142.55E 37 4.7b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=14.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=42.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.6km az=144.0.
MOS Error ellipse: s-maj=9.7km s-min=6.3km az=113.1.
ISC IV 28 14 44 31.4–.97 37.20N–.06 144.49E–.08 26 3.8b 35 3-73
IDC IV 28 14 44 27.4–.85 37.05N 144.72E 0 4.0,3.9 ¶17202307
ISCJB IV 28 14 44 29.9–.67 37.12N–.05 144.44E–.06 26 3.9b,3.9
JMA IV 28 14 44 32.2–.40 37.20N 144.27E 25 3.8,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=21.7km s-min=17.9km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.2km az=162.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC IV 28 14 51 07.0–1.5 34.92N–.07 142.82E–.10 42 22 2-59
IDC IV 28 14 51 02.5–1.9 34.88N 142.87E 0 3.9,3.8 ¶17202309
ISCJB IV 28 14 51 05.4–.91 34.98N–.06 142.90E–.07 42 3.9b,3.8
JMA IV 28 14 51 07.0–.50 35.04N 142.80E 61 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=45.1km s-min=28.8km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.5km az=42.7.
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
ISC IV 28 15 01 54.9–1.1 37.66N–.09 143.5E–.10 35 3.6b 12 4-62
IDC IV 28 15 01 50.3–1.1 37.73N 143.48E 0 3.7,3.6 ¶17202311
ISCJB IV 28 15 01 52.9–.92 37.55N–.09 143.5E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 28 16 11 55.4–.50 40.40N 145.19E 46 3.7
¶600601644
JMA Error ellipse: s-maj=2.2km s-min=4.2km az=-1.0.
ISC IV 28 16 45 07.6–1.2 35.3N–.20 142.5E–.20 56 3.6b 7 3-59
IDC IV 28 16 45 00.6–1.2 35.33N 142.65E 0 3.7,3.6 ¶17202316
ISCJB IV 28 16 45 05.7–1.0 35.3N–.10 142.6E–.20 56 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA IV 28 20 20 03.7–.30 36.70N 142.10E 27–4 3.7
NIED IV 28 20 20 00 36.70N 142.10E 23 3.6W ¶600601870
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ21.00000°,λ107.00000°. NP2:ϕ_s23.00000°,δ70.00000°,λ84.00000°. $M_0$2.66000×10^{14}
ISC IV 28 20 59 20.2–.73 37.82N–.05 142.65E–.06 22–5 4.2b,3.4s 76 1-145
NIED IV 28 20 59 00 37.90N 142.60E 17 4.2W,3.4s ¶16505567
ISCJB IV 28 20 59 17.7–1.5 37.82N–.04 142.67E–.04 15–9 4.2b,3.4s
JMA IV 28 20 59 17.4–.20 37.83N 142.65E 23–3 4.3,3.4s
IDC IV 28 20 59 20.4–.69 37.82N 142.60E 23–3 4.1,4.1
NEIC IV 28 20 59 22.3–.76 37.83N 142.63E 38–6 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ26.00000°,λ-80.00000°. NP2:ϕ_s188.00000°,δ65.00000°,λ-95.00000°. $M_0$2.06000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=5.4km az=4.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=11.4km az=120.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.9km az=127.0. Recorded [1 JMA] in Miyagi.
JMA IV 28 21 59 19.6–.30 37.98N 144.40E 4 3.7
¶600601951
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 28 23 12 30.4–.67 38.39N–.06 143.90E–.07 14 3.7b,3.5s 48 2-81
NIED IV 28 23 12 00 38.40N 143.80E 5 4.2W,3.5s ¶16505568
ISCJB IV 28 23 12 28.9–.56 38.36N–.05 143.90E–.05 14 3.7b,3.5s
JMA IV 28 23 12 31.1–.20 38.42N 143.80E 23 3.9,3.5s
IDC IV 28 23 12 33.5–.72 38.28N 143.91E 38–5 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ33.00000°,λ-18.00000°. NP2:ϕ_s158.00000°,δ81.00000°,λ-122.00000°. $M_0$2.03000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=144.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.7km s-min=14.4km az=104.0.
JMA IV 28 23 34 18.9–.50 38.06N 144.08E 0 3.5
¶600602054
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC IV 28 23 45 13.6–.62 36.73N–.06 142.15E–.08 19 4.1b 40 1-146
NIED IV 28 23 45 00 36.90N 141.80E 17 4.0W ¶16505569
IDC IV 28 23 45 10.8–.66 36.76N 142.20E 0 4.1,4.0
ISCJB IV 28 23 45 11.3–.45 36.72N–.04 142.16E–.06 19 4.0b,3.7s
NEIC IV 28 23 45 14.3–2.2 36.75N 142.15E 24–16 4.5b,3.7s
JMA IV 28 23 45 15.4–.50 36.86N 141.78E 37 4.0,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ22.00000°,λ-115.00000°. NP2:ϕ_s199.00000°,δ70.00000°,λ-80.00000°. $M_0$1.04000×10^{15}
IDC Error ellipse: s-maj=17.4km s-min=13.4km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.1km az=16.6.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.1km az=116.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC IV 29 00 13 10.0–.90 37.32N–.07 143.50E–.08 35 3.5b 22 2-89
IDC IV 29 00 13 04.5–1.0 37.16N 143.77E 0 3.7,3.5 ¶17202335
ISCJB IV 29 00 13 08.2–.71 37.30N–.05 143.51E–.05 33 3.4b,3.5
JMA IV 29 00 13 10.3–.30 37.40N 143.38E 35 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.2km s-min=23.9km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.8km az=168.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 29 00 14 38.9–.69 37.34N–.05 143.53E–.07 35 3.8b,3.3s 48 2-83
NIED IV 29 00 14 00 37.30N 143.50E 5 4.1W,3.3s ¶16505572
IDC IV 29 00 14 33.6–.81 37.22N 143.74E 0 4.0,3.9L
ISCJB IV 29 00 14 36.9–.47 37.30N–.04 143.55E–.04 33 3.9b,3.1s
JMA IV 29 00 14 37.0–.30 37.31N 143.47E 34 4.2,3.1s
NEIC IV 29 00 14 39.0–.61 37.32N 143.67E 35 4.3b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ29.00000°,λ-97.00000°. NP2:ϕ_s219.00000°,δ61.00000°,λ-86.00000°. $M_0$1.86000×10^{15}
IDC Error ellipse: s-maj=21.7km s-min=15.5km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.3km az=143.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=8.9km az=135.0.
JMA IV 29 00 26 30.5–.20 37.33N 143.54E 50 3.5
¶17202336
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 29 00 27 12.7–1.8 37.38N–.09 143.5E–.10 35 3.6b 14 2-69
ISCJB IV 29 00 27 10.7–1.2 37.35N–.06 143.58E–.09 35 3.6b,3.5s ¶600602098
JMA IV 29 00 27 11.6–.20 37.34N 143.50E 43 3.5,3.5s
IDC IV 29 00 27 18.4–1.3 35.84N 142.79E 0 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.7km az=146.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=42.6km s-min=28.2km az=111.0.
ISC IV 29 01 13 52.4–.53 37.47N–.04 142.46E–.04 20–3 4.8b,4.2s 342 1-146
NIED IV 29 01 13 00 37.50N 142.60E 20 4.5W,4.2s ¶16482372
IDC IV 29 01 13 49.2–.53 37.46N 142.55E 0 4.6,4.6L
BJI IV 29 01 13 50.6 37.48N 142.56E 28 4.9b,4.8b
JMA IV 29 01 13 50.9–.20 37.47N 142.59E 25 4.6,4.8b
ISCJB IV 29 01 13 51.6–.80 37.47N–.02 142.52E–.03 26–5 4.7b,4.1s
MOS IV 29 01 13 52.9–1.1 37.57N 142.46E 33 5.1b,4.0s
NEIC IV 29 01 13 54.4–.68 37.49N 142.45E 32–4 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ8.00000°,λ95.00000°. NP2:ϕ_s36.00000°,δ82.00000°,λ89.00000°. $M_0$6.95000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.1km az=113.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=145.7.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=108.8.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.5km az=133.0. Recorded [1 JMA] in Fukushima and Miyagi.
JMA IV 29 01 20 13.2–.20 37.66N 142.28E 15–4 3.6
NIED IV 29 01 20 00 37.70N 142.30E 17 3.5W ¶600602137
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ17.00000°,λ-108.00000°. NP2:ϕ_s182.00000°,δ73.00000°,λ-84.00000°. $M_0$2.15000×10^{14}
ISC IV 29 02 59 02.7–1.0 36.52N–.09 143.65E–.08 35 3.4b 20 2-75
IDC IV 29 02 58 57.4–.96 36.36N 143.82E 0 3.6,3.4 ¶17202342
ISCJB IV 29 02 59 01.1–.87 36.55N–.08 143.67E–.06 33 3.4b,3.4
JMA IV 29 02 59 01.5–.30 36.53N 143.61E 46 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=37.6km s-min=20.5km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.0km az=9.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA IV 29 03 41 47.0–.20 37.43N 143.48E 45 3.8
¶600602200
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 29 05 51 29.1–.30 38.65N 144.52E 43 3.5
¶600602246
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 29 07 04 27.7–1.2 35.35N–.06 142.5E–.10 59 3.5b 18 1-56
IDC IV 29 07 04 20.4–1.3 35.31N 142.74E 0 3.6,3.5 ¶17202355
JMA IV 29 07 04 21.1–.60 35.36N 142.92E 60 3.7,3.5
ISCJB IV 29 07 04 26.3–.94 35.34N–.06 142.45E–.09 59 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 29 08 35 51.4–.49 36.49N–.05 143.26E–.06 29 4.6b 143 2-146
IDC IV 29 08 35 46.7–.58 36.42N 143.36E 0 4.3,4.2 ¶600602352
BJI IV 29 08 35 46.5 36.54N 143.83E 30 4.9b,4.7s
ISCJB IV 29 08 35 49.8–.26 36.50N–.03 143.20E–.03 29 4.5b,3.5s
JMA IV 29 08 35 50.1–.30 36.58N 143.18E 36 4.2,3.5s
NEIC IV 29 08 35 50.0–2.2 36.41N 143.34E 20–13 4.7b,3.5s
MOS IV 29 08 35 53.5–1.1 37.09N 143.06E 33 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.6km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=167.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=133.0.
MOS Error ellipse: s-maj=10.1km s-min=6.7km az=94.1.
ISC IV 29 11 11 03.9–1.1 39.45N–.07 143.39E–.08 11 3.6b 17 1-61
IDC IV 29 11 11 02.0–1.2 39.33N 143.50E 0 3.7,3.5 ¶17202372
ISCJB IV 29 11 11 02.1–.95 39.42N–.07 143.52E–.09 11 3.6b,3.5
JMA IV 29 11 11 05.1–.30 39.42N 143.37E 26–5 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=41.9km s-min=24.1km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.6km az=43.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC IV 29 12 07 32.2–3.8 35.00N 144.28E 0 3.6b,3.6
¶17202379
IDC Error ellipse: s-maj=112.5km s-min=29.7km az=60.0.
ISC IV 29 12 57 57.3–.80 36.52N–.05 143.24E–.07 29 3.6b 34 2-89
IDC IV 29 12 57 52.9–.85 36.42N 143.38E 0 3.8,3.6 ¶16505579
ISCJB IV 29 12 57 55.5–.59 36.55N–.04 143.23E–.05 29 3.6b,3.6
JMA IV 29 12 57 56.1–.20 36.53N 143.24E 51 3.2,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=18.0km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=40.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 29 13 16 29.7–.40 36.52N 142.86E 16 3.6
¶600602588
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC IV 29 18 28 19.1–1.3 37.5N–.10 144.6E–.10 35 3.6b 7 5-62
IDC IV 29 18 28 14.5–1.9 37.47N 144.76E 0 3.7,3.7 ¶17202404
ISCJB IV 29 18 28 17.2–1.2 37.5N–.10 144.5E–.10 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 29 18 45 02.4–.94 37.16N–.08 144.0E–.10 35 3.7b 19 5-153
IDC IV 29 18 44 57.2–.93 37.14N 144.14E 0 3.9,3.8 ¶17202408
ISCJB IV 29 18 45 00.1–.78 37.09N–.08 144.00E–.09 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 29 19 15 03.5–1.0 37.91N–.06 143.70E–.08 35 3.6b 25 2-62
IDC IV 29 19 14 59.3–1.0 37.65N 144.32E 0 3.7,3.6 ¶17202409
NIED IV 29 19 15 00 38.00N 143.60E 8 3.6W,3.6
ISCJB IV 29 19 15 01.4–.72 37.92N–.06 143.74E–.06 33 3.6b,3.6
JMA IV 29 19 15 02.3–.20 37.97N 143.56E 22 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=20.7km az=97.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ20.00000°,λ-96.00000°. NP2:ϕ_s207.00000°,δ70.00000°,λ-88.00000°. $M_0$2.41000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.3km az=12.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 29 20 42 07.3–1.1 37.54N–.03 142.34E–.04 3–6 4.7b,4.5s 353 1-146
NIED IV 29 20 42 00 37.60N 142.30E 14 4.4W,4.5s ¶16485195
IDC IV 29 20 42 07.5–.48 37.55N 142.28E 0 4.5,4.4
BJI IV 29 20 42 07.2 37.49N 142.38E 19 5.0b,4.7b
ISCJB IV 29 20 42 07.2–.76 37.54N–.02 142.41E–.03 15–5 4.7b,4.3s
JMA IV 29 20 42 09.5–.20 37.60N 142.20E 8–3 4.5,4.3s
NEIC IV 29 20 42 10.6–1.3 37.54N 142.36E 24–9 4.8b,4.3s
MOS IV 29 20 42 12.0–.86 37.83N 142.22E 33 4.9b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ18.00000°,λ-124.00000°. NP2:ϕ_s33.00000°,δ75.00000°,λ-79.00000°. $M_0$5.12000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.6km az=102.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=40.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=127.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=110.7.
ISC IV 29 22 26 12.3–2.3 37.19N–.06 142.31E–.08 2–12 3.9b 28 1-69
IDC IV 29 22 26 12.0–1.1 37.14N 142.45E 0 4.0,3.9 ¶16577917
ISCJB IV 29 22 26 12.1–1.5 37.19N–.05 142.40E–.07 15–10 3.9b,3.9
NEIC IV 29 22 26 14.0–4.5 37.17N 142.48E 14–28 4.1b,3.9
JMA IV 29 22 26 13.3–.20 37.17N 142.34E 24 4.0,3.9
ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=19.3km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=8.2km az=42.5.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=9.2km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 29 23 56 04.5–.30 37.13N 142.33E 21–4 3.6
¶600603036
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 30 00 42 00.5–.20 35.86N 143.16E 15 3.6
¶600603056
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 30 02 24 04.4–1.6 37.54N–.06 143.6E–.10 35 3.7b 23 2-63

NIED IV 30 02 24 00 37.50N 143.50E 5 3.4W **¶17202427**
ISCJB IV 30 02 24 03.0–.94 37.49N–.05 143.55E–.07 33 3.7b
JMA IV 30 02 24 03.1–.20 37.53N 143.53E 46 3.7
IDC IV 30 02 24 06.0–1.1 36.60N 143.38E 0 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S333.00000°,δ45.00000°,λ-150.00000°. NP2:ϕ_S221.00000°,δ69.00000°,λ-49.00000°. $M_0$1.51000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.8km az=160.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=35.2km s-min=21.6km az=126.0.
ISC IV 30 03 41 25.4–1.0 37.38N–.05 144.11E–.08 35 3.6b 24 2-84
NIED IV 30 03 41 00 37.80N 143.80E 5 3.7W **¶17202429**
IDC IV 30 03 41 21.3–1.2 37.18N 144.45E 0 3.9,3.6
ISCJB IV 30 03 41 24.5–.80 37.42N–.05 144.05E–.07 33 3.6s,3.6b
JMA IV 30 03 41 25.9–.30 37.76N 143.83E 0 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S37.00000°,δ21.00000°,λ-83.00000°. NP2:ϕ_S209.00000°,δ69.00000°,λ-93.00000°. $M_0$3.55000×10^{14}
IDC Error ellipse: s-maj=48.7km s-min=22.6km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.9km az=43.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC IV 30 03 49 00.3–1.3 36.66N–.05 142.30E–.08 15 23 1-57
IDC IV 30 03 48 57.0–2.9 36.73N 142.63E 0 3.5,3.5s **¶600603138**
ISCJB IV 30 03 48 59.3–.90 36.66N–.05 142.35E–.07 15 3.5s,3.4b
JMA IV 30 03 48 59.6–.30 36.68N 142.34E 20–4 3.5,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=61.7km s-min=32.6km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.4km az=163.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 30 03 51 13.2–.69 37.92N–.05 144.39E–.06 35 4.0b 63 2-88
IDC IV 30 03 51 07.9–.86 37.82N 144.49E 0 4.0,3.9 **¶16505584**
ISCJB IV 30 03 51 11.4–.46 37.94N–.03 144.34E–.04 33 4.0b,2.6s
NEIC IV 30 03 51 11.0–3.0 37.85N 144.51E 21–21 4.2b,2.6s
JMA IV 30 03 51 12.1–.20 37.98N 144.29E 39 4.4,2.6s
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=16.6km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.9km az=160.6.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=7.7km az=126.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA IV 30 04 06 03.0–.20 39.62N 143.78E 13 3.6 ¶600603148
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC IV 30 06 06 52.4–.51 37.55N–.05 143.49E–.06 35 4.4b 89 2-145
IDC IV 30 06 06 46.7–.58 37.38N 143.65E 0 4.4,4.3 **¶16505586**
ISCJB IV 30 06 06 50.0–.35 37.46N–.03 143.47E–.04 33 4.3b,4.3
JMA IV 30 06 06 49.8–.20 37.54N 143.46E 42 4.7,4.3
NEIC IV 30 06 06 52.1–.41 37.45N 143.58E 35 4.6b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=12.5km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=140.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.4km az=134.0.
ISC IV 30 07 59 26.9–.73 37.44N–.09 143.68E–.09 35 3.7b 17 4-88
IDC IV 30 07 59 22.2–.72 37.52N 143.63E 0 4.0,3.8 **¶17202447**
ISCJB IV 30 07 59 25.2–.62 37.50N–.10 143.62E–.08 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 08 20 04.9–.65 38.81N–.05 144.15E–.07 23 4.0b 63 2-87
IDC IV 30 08 20 00.9–.74 38.72N 144.26E 0 4.1,4.0 **¶16708393**
ISCJB IV 30 08 20 02.8–.43 38.80N–.03 144.16E–.04 23 3.9b,4.0
NEIC IV 30 08 20 02.4–.44 38.76N 144.30E 10 4.2b,4.0
JMA IV 30 08 20 04.6–.20 38.81N 144.11E 41 4.1,4.0
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=16.5km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.3km az=169.4.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.9km az=120.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA IV 30 09 46 27.2–.30 36.38N 143.35E 53 3.5 ¶602945461
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC IV 30 10 08 28.5–2.4 37.17N–.04 142.46E–.05 2–15 4.0b 56 1-146
NIED IV 30 10 08 00 37.20N 142.50E 17 4.1W **¶600603264**
ISCJB IV 30 10 08 27.7–1.4 37.16N–.03 142.57E–.04 7–9 3.9b
JMA IV 30 10 08 28.8–.30 37.18N 142.48E 10 4.2
IDC IV 30 10 08 28.4–.68 37.10N 142.57E 0 3.9,3.9
NEIC IV 30 10 08 29.7–.31 37.08N 142.60E 10 4.6b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S243.00000°,δ87.00000°,λ3.00000°. NP2:ϕ_S153.00000°,δ87.00000°,λ177.00000°. $M_0$1.75000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=28.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=21.0km s-min=14.0km az=115.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.7km az=121.0.
ISC IV 30 11 33 26.1–.97 37.47N–.05 143.63E–.08 35 4.3b 41 2-88
ISCJB IV 30 11 33 25.4–.62 37.46N–.03 143.54E–.05 33 4.1b **¶16587550**
IDC IV 30 11 33 25.8–2.1 37.00N 143.59E 0 3.9,3.9
JMA IV 30 11 33 26.3–.20 37.50N 143.47E 43 3.7,3.9
NEIC IV 30 11 33 26.9–.81 37.33N 143.78E 35 4.5b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=15.8.
IDC Error ellipse: s-maj=38.7km s-min=28.5km az=52.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=10.6km az=100.0.
ISC IV 30 11 37 51.8–1.0 36.75N–.07 142.05E–.08 19 3.5b 11 3-57
IDC IV 30 11 37 49.7–1.9 36.76N 142.04E 0 3.7,3.7 **¶17202454**
ISCJB IV 30 11 37 50.4–1.1 36.78N–.09 142.02E–.09 19 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 14 41 14.4–3.4 37.44N–.08 144.5E–.20 51–38 33 3-62
IDC IV 30 14 41 07.3–2.0 37.38N 144.85E 0 3.9,3.9 **¶17202464**
JMA IV 30 14 41 13.7–.10 37.53N 144.45E 31 4.2,3.9
ISCJB IV 30 14 41 14.1–1.3 37.55N–.05 144.50E–.09 79–17 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 16 29 39.7–1.1 37.19N–.05 142.14E–.07 19 3.6b 19 1-61
NIED IV 30 16 29 00 37.20N 142.30E 8 3.5W **¶17202467**
IDC IV 30 16 29 36.6–1.6 37.11N 142.65E 0 3.7,3.7
JMA IV 30 16 29 39.5–.30 37.25N 142.27E 25–5 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S23.00000°,δ49.00000°,λ7.00000°. NP2:ϕ_S289.00000°,δ85.00000°,λ138.00000°. $M_0$1.92000×10^{14}
IDC Error ellipse: s-maj=35.2km s-min=21.1km az=73.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC IV 30 18 08 46.6–.43 39.93N–.04 143.56E–.04 6 4.3b,3.8s 203 1-87
ISCJB IV 30 18 08 44.7–.26 39.86N–.03 143.62E–.04 6 4.3b,3.9s **¶16485935**
IDC IV 30 18 08 45.6–.58 39.84N 143.51E 0 4.2,4.2
NEIC IV 30 18 08 48.1–2.2 39.82N 143.55E 18–13 4.5b,4.2
MOS IV 30 18 08 48.8–.98 39.89N 143.58E 33 4.6b,4.2
JMA IV 30 18 08 48.0–.30 39.90N 143.52E 20 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=44.3.
IDC Error ellipse: s-maj=16.2km s-min=12.5km az=107.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=113.0.
MOS Error ellipse: s-maj=8.8km s-min=5.3km az=97.2.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC IV 30 19 56 35.1–.88 38.94N–.06 144.14E–.07 23 3.8b 35 2-73
NIED IV 30 19 56 00 38.90N 144.10E 5 3.8W **¶600603558**
IDC IV 30 19 56 31.0–.82 38.74N 144.22E 0 3.8,3.7
ISCJB IV 30 19 56 33.5–.62 38.95N–.04 144.15E–.05 23 3.6b,2.7s
JMA IV 30 19 56 35.4–.20 38.88N 144.09E 41 3.9,2.7s
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S9.00000°,δ34.00000°,λ-78.00000°. NP2:ϕ_S176.00000°,δ57.00000°,λ-98.00000°. $M_0$5.22000×10^{14}
IDC Error ellipse: s-maj=26.4km s-min=16.0km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=141.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC IV 30 20 08 53.3–1.4 35.57N–.09 142.59E–.10 56 11 3-56
IDC IV 30 20 08 46.5–1.6 35.31N 142.83E 0 3.7,3.7s **¶17202475**
JMA IV 30 20 08 50.3–.20 35.55N 142.66E 84 3.0,3.7s
ISCJB IV 30 20 08 51.2–1.2 35.57N–.07 142.64E–.09 56 3.7s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 30 20 58 28.3–1.4 39.63N–.08 143.65E–.08 11 3.5b 27 1-67
NIED IV 30 20 58 00 39.70N 143.70E 23 3.5W **¶17202478**
ISCJB IV 30 20 58 26.9–.91 39.68N–.05 143.72E–.08 11 3.5b
JMA IV 30 20 58 26.2–.30 39.65N 143.69E 5–4 3.8
IDC IV 30 20 58 26.5–6.7 39.53N 143.74E 0 3.6b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S197.00000°,δ36.00000°,λ83.00000°. NP2:ϕ_S25.00000°,δ55.00000°,λ95.00000°. $M_0$2.10000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.6km az=37.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=128.8km s-min=37.2km az=118.0.
JMA IV 30 23 32 20.2–.20 38.24N 144.11E 32 3.6 ¶600603659
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 01 02 41 21.8–3.8 37.59N–.04 143.60E–.06 2–23 4.5b,3.8s 100 2-150
ISCJB V 01 02 41 21.9–.34 37.65N–.03 143.51E–.03 10 4.3b,3.9s **¶16577931**
IDC V 01 02 41 21.3–.53 37.47N 143.71E 0 4.4,4.3L
JMA V 01 02 41 23.4–.20 37.68N 143.52E 29 4.6,4.3L
NEIC V 01 02 41 23.9–4.0 37.54N 143.66E 15–24 4.7b,4.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=179.7.
IDC Error ellipse: s-maj=14.7km s-min=12.3km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.5km az=113.0.
ISC V 01 02 54 45.1–.70 37.63N–.05 143.61E–.07 35 4.0b 52 2-75
IDC V 01 02 54 40.0–.87 37.56N 143.67E 0 4.0,3.9 **¶16577932**
NEIC V 01 02 54 41.1–3.0 37.63N 143.71E 7–19 4.2b,3.9
JMA V 01 02 54 42.9–.20 37.69N 143.53E 38 4.0,3.9
ISCJB V 01 02 54 43.1–.48 37.65N–.04 143.56E–.05 33 4.0b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 01 03 19 09.4–2.9 40.23N–.06 143.24E–.09 7–17 3.7b 24 1-67
NIED V 01 03 19 00 40.20N 143.30E 23 3.7W **¶17202493**
JMA V 01 03 19 08.7–.20 40.22N 143.30E 5–2 3.9
ISCJB V 01 03 19 09.3–1.7 40.15N–.06 143.42E–.09 23–11 3.6b
IDC V 01 03 19 17.5–4.6 40.52N 142.59E 34–35 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S162.00000°,δ23.00000°,λ42.00000°. NP2:ϕ_S32.00000°,δ75.00000°,λ107.00000°. $M_0$3.78000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=7.9km az=38.1.
IDC Error ellipse: s-maj=49.3km s-min=21.7km az=92.0.
ISC V 01 03 28 15.6–2.2 37.79N–.05 142.09E–.08 10–13 3.5b 25 1-89
NIED V 01 03 28 00 37.90N 142.10E 23 3.6W **¶17202494**
IDC V 01 03 28 14.0–.89 37.69N 142.29E 0 3.8,3.6
ISCJB V 01 03 28 15.2–1.6 37.78N–.04 142.19E–.08 17–10 3.5b,3.6
JMA V 01 03 28 18.1–.20 37.83N 142.04E 30–3 4.1,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S22.00000°,δ13.00000°,λ-106.00000°. NP2:ϕ_S219.00000°,δ78.00000°,λ-86.00000°. $M_0$3.33000×10^{14}
IDC Error ellipse: s-maj=28.8km s-min=22.4km az=105.0.
ISCJB Event type fe. Error ellipse: s-maj=11.2km s-min=7.3km az=6.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 03 55 43.6–.62 39.62N–.05 143.45E–.06 22–3 3.8b 52 1-117
JMA V 01 03 55 40.7–.20 39.63N 143.61E 24 4.1 **¶16577934**
ISCJB V 01 03 55 42.0–1.7 39.61N–.04 143.54E–.05 25–13 3.7b
IDC V 01 03 55 43.2–.71 39.56N 143.45E 22–3 3.8,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.9km az=152.8.
IDC Error ellipse: s-maj=20.2km s-min=16.2km az=110.0.
ISC V 01 04 16 47.3–.85 37.62N–.06 143.35E–.08 35 3.5b 34 2-76
NIED V 01 04 16 00 37.70N 143.20E 11 3.6W **¶17202496**
IDC V 01 04 16 41.9–1.1 37.51N 143.52E 0 3.8,3.6
ISCJB V 01 04 16 45.5–.63 37.63N–.05 143.35E–.05 33 3.6b,3.6
JMA V 01 04 16 47.0–.40 37.66N 143.18E 29 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S42.00000°,δ46.00000°,λ-71.00000°. NP2:ϕ_S196.00000°,δ47.00000°,λ-108.00000°. $M_0$2.57000×10^{14}
IDC Error ellipse: s-maj=28.7km s-min=20.8km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.9km az=149.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 01 04 22 13.8–1.1 37.40N–.08 143.8E–.10 35 3.7b 11 5-61
IDC V 01 04 22 10.0–1.2 37.57N 143.62E 0 4.0,3.9 **¶603241682**
ISCJB V 01 04 22 13.1–1.1 37.29N–.10 143.66E–.10 33 3.7b,2.7s
ISC Event type ke.
ISCJB Event type ke.
ISC V 01 04 35 19.8–2.1 37.62N–.04 143.54E–.05 28–16 3.9b 46 2-76
NIED V 01 04 35 00 37.70N 143.50E 5 3.8W **¶16577936**
IDC V 01 04 35 15.3–.76 37.57N 143.61E 0 4.0,3.8L
NEIC V 01 04 35 16.0–4.1 37.61N 143.64E 4–25 4.1b,3.8L
JMA V 01 04 35 19.0–.20 37.65N 143.48E 35 3.6,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S2.00000°,δ32.00000°,λ-82.00000°. NP2:ϕ_S172.00000°,δ58.00000°,λ-95.00000°. $M_0$5.67000×10^{14}
IDC Error ellipse: s-maj=22.4km s-min=15.3km az=108.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=7.7km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 05 41 27.7–.97 37.64N–.06 143.53E–.09 35 3.9b 32 2-62
IDC V 01 05 41 23.2–1.1 37.48N 143.44E 0 3.9,3.9 **¶16587553**
ISCJB V 01 05 41 25.1–.68 37.64N–.05 143.57E–.07 33 3.9b,3.9
JMA V 01 05 41 25.3–.30 37.67N 143.54E 45 3.4,3.9
NEIC V 01 05 41 27.1–.93 37.61N 143.68E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=17.9km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.6km az=26.5.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=11.5km az=98.0.
ISC V 01 05 47 57.5–1.2 37.53N–.08 144.57E–.09 35 3.6b 20 3-62
IDC V 01 05 47 52.2–1.2 37.57N 144.64E 0 3.8,3.7 **¶17202503**
ISCJB V 01 05 47 55.6–.80 37.50N–.07 144.58E–.07 33 3.5b,3.7
JMA V 01 05 48 00.8–.30 37.68N 144.17E 16 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=20.8km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.0km az=26.4.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC V 01 05 50 50.0–1.1 37.68N–.05 142.05E–.08 24 3.5b 15 1-63
IDC V 01 05 50 47.0–1.1 37.54N 142.39E 0 3.5,3.4 **¶600603816**
ISCJB V 01 05 50 48.7–.86 37.63N–.05 142.13E–.08 24 3.4b,3.4
JMA V 01 05 50 50.3–.20 37.69N 142.05E 26–4 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=35.0km s-min=21.4km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.1km az=160.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 06 12 21.2–.71 36.70N–.04 142.24E–.05 26–4 4.1b,3.5s 122 1-146
NIED V 01 06 12 00 36.70N 142.30E 23 4.2W,3.5s **¶16485956**
JMA V 01 06 12 19.5–.20 36.69N 142.33E 33 4.1,3.5s
ISCJB V 01 06 12 20.0–1.1 36.69N–.03 142.32E–.04 30–8 4.1b,3.5s
MOS V 01 06 12 21.0–1.2 36.72N 142.27E 37 4.3b,3.5s

IDC V 01 06 12 22.5–2.8 36.55N 142.27E 37–25 4.0,3.9
NEIC V 01 06 12 23.3–1.5 36.90N 142.16E 28–13 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S194.00000°,δ26.00000°,λ82.00000°. NP2:ϕ_S22.00000°,δ64.00000°,λ94.00000°. $M_0$2.32000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=27.5.
MOS Error ellipse: s-maj=10.3km s-min=6.9km az=111.7.
IDC Error ellipse: s-maj=16.9km s-min=13.4km az=110.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=5.4km az=115.0.
ISC V 01 07 14 20.3–3.9 37.90N–.05 143.91E–.07 28–27 4.1b 83 2-118
IDC V 01 07 14 15.5–.56 37.79N 144.04E 0 4.2,4.1L **¶16587554**
NEIC V 01 07 14 17.2–.34 37.82N 144.04E 10 4.4b,4.1L
ISCJB V 01 07 14 18.4–1.3 37.89N–.03 143.90E–.04 28–10 4.1b,3.1s
JMA V 01 07 14 19.2–.20 37.91N 143.88E 42 4.6,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=15.1km s-min=12.2km az=127.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.2km az=131.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.8km az=177.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 01 07 42 22.8–.20 38.05N 143.03E 37 3.6
NIED V 01 07 42 00 38.00N 143.00E 23 3.5W **¶600603883**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S358.00000°,δ40.00000°,λ-98.00000°. NP2:ϕ_S188.00000°,δ50.00000°,λ-83.00000°. $M_0$1.98000×10^{14}
JMA V 01 08 40 23.7–.20 39.08N 143.31E 9–3 3.8
¶600603925
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 01 09 10 11.9–2.6 37.77N–.05 142.0E–.10 24–17 20 1-62
NIED V 01 09 10 00 37.80N 142.00E 65 3.9W **¶600603947**
JMA V 01 09 10 12.3–.10 37.77N 142.03E 31–3 3.8
IDC V 01 09 10 16.4–6.0 36.58N 141.87E 0 3.7,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S75.00000°,δ29.00000°,λ23.00000°. NP2:ϕ_S324.00000°,δ79.00000°,λ117.00000°. $M_0$7.23000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=129.1km s-min=41.0km az=32.0.
IDC V 01 10 04 46.9–2.4 36.57N 144.55E 0 3.6,3.6L
¶17202511
IDC Error ellipse: s-maj=59.0km s-min=30.0km az=73.0.
IDC V 01 11 04 42.8–3.0 36.96N 144.77E 0 3.8,3.7L
¶17202515
IDC Error ellipse: s-maj=65.0km s-min=28.9km az=160.0.
JMA V 01 11 10 18.6–.40 37.20N 144.43E 44 4.0
¶600603996
JMA Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
ISC V 01 11 34 58.5–1.6 37.12N–.10 142.0E–.10 19 10 1-57
JMA V 01 11 34 53.8–.50 36.89N 142.30E 12–4 3.4 **¶17202517**
ISCJB V 01 11 34 56.2–1.5 37.0N–.10 142.2E–.20 19 3.5b
IDC V 01 11 34 56.0–2.0 37.12N 142.04E 0 3.5,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=14.4km az=19.6.
IDC Error ellipse: s-maj=45.9km s-min=29.3km az=80.0.
ISC V 01 15 40 12.8–.74 37.33N–.05 142.28E–.06 21 4.0b 49 1-74
IDC V 01 15 40 09.7–.91 37.25N 142.41E 0 3.9,3.8 **¶16487747**
ISCJB V 01 15 40 11.2–.53 37.31N–.05 142.38E–.05 21 4.0b,3.8
JMA V 01 15 40 11.1–.20 37.32N 142.34E 21 4.2,3.8
NEIC V 01 15 40 14.3–2.9 37.26N 142.50E 33–19 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=16.1km az=89.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.0km az=155.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=8.7km az=124.0.
ISC V 01 15 47 15.0–2.4 37.69N–.06 143.66E–.06 4–15 4.3b,3.0s 131 2-81
NEIC V 01 15 47 14.1–2.5 37.63N 143.72E 1–15 4.6b,3.0s **¶16487748**
IDC V 01 15 47 14.3–.64 37.60N 143.70E 0 4.0,4.0
ISCJB V 01 15 47 15.5–1.2 37.69N–.03 143.59E–.04 20–8 4.2b,3.3s
MOS V 01 15 47 16.9–1.2 37.73N 143.72E 33 4.4b,3.3s
JMA V 01 15 47 17.9–.20 37.71N 143.49E 40 4.0,3.3s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=4.9km az=108.0.
IDC Error ellipse: s-maj=16.9km s-min=12.8km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.3km az=33.0.
MOS Error ellipse: s-maj=9.4km s-min=5.8km az=101.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 01 16 18 08.3–3.4 37.32N–.10 142.1E–.20 24 4.0b 10 1-89
NIED V 01 16 18 00 37.30N 142.30E 5 3.8W **¶17202533**
JMA V 01 16 18 04.1–.40 37.25N 142.35E 15–5 3.6
IDC V 01 16 18 27.4–1.6 36.37N 140.51E 0 4.4,4.1
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S342.00000°,δ39.00000°,λ-93.00000°. NP2:ϕ_S167.00000°,δ51.00000°,λ-87.00000°. $M_0$6.17000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=39.5km s-min=32.2km az=25.0.
ISC V 01 17 34 33.7–1.1 33.39N–.05 141.17E–.08 48 3.8b 22 1-57
ISCJB V 01 17 34 32.9–.78 33.42N–.04 141.14E–.07 48 3.8b **¶17202541**
JMA V 01 17 34 34.8–.20 33.53N 140.99E 41 3.2
IDC V 01 17 34 35.5–2.8 33.36N 141.05E 51–24 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.9km az=3.3.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=12.7km az=85.0.
IDC V 01 17 44 22.4–2.3 37.60N 143.91E 0 3.7,3.6
¶17202543
IDC Error ellipse: s-maj=56.6km s-min=30.8km az=82.0.
ISC V 01 23 49 53.1–2.6 37.54N–.05 143.60E–.06 7–16 4.4b,3.7s 108 2-86
IDC V 01 23 49 52.0–.58 37.47N 143.64E 0 4.2,4.1 **¶16497394**
ISCJB V 01 23 49 52.8–1.3 37.59N–.04 143.50E–.04 11–8 4.2b,3.7s
JMA V 01 23 49 54.7–.20 37.63N 143.51E 46 4.3,3.7s
MOS V 01 23 49 55.6–1.8 37.61N 143.62E 33 4.6b,3.7s
NEIC V 01 23 49 57.0–.48 37.48N 143.63E 35 4.3b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=12.3km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=4.8km az=159.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=6.1km az=103.3.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.7km az=128.0.
JMA V 02 03 23 22.3–.20 38.24N 144.06E 23 3.6
¶600604494
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 02 03 31 35.4–.30 39.41N 144.04E 17 3.6
¶600604497
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 02 05 08 12.1–2.1 37.81N–.05 142.47E–.07 13–12 3.8b 31 1-77
NIED V 02 05 08 00 37.90N 142.40E 35 3.7W **¶17202577**
JMA V 02 05 08 14.7–.20 37.88N 142.45E 42–4 3.8
IDC V 02 05 08 17.6–2.6 37.82N 142.38E 55–24 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S271.00000°,δ8.00000°,λ83.00000°. NP2:ϕ_S99.00000°,δ82.00000°,λ91.00000°. $M_0$4.57000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=24.7km s-min=14.9km az=108.0.
ISC V 02 05 19 11.4–.69 37.17N–.07 142.27E–.06 9 3.9b 27 1-77
ISCJB V 02 05 19 09.7–.52 37.17N–.06 142.46E–.05 9 4.0b **¶17202578**
JMA V 02 05 19 10.5–.30 37.15N 142.44E 23 4.0
IDC V 02 05 19 18.0–2.6 37.08N 142.28E 63–25 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=169.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=20.7km s-min=14.2km az=89.0.

ISC V 02 06 15 15.9–1.1 37.6N–.20 144.5E–.10 35 3.5b 7 5-73
IDC V 02 06 15 10.9–1.1 37.59N 144.61E 0 3.8,3.6L **¶17202585**
ISCJB V 02 06 15 13.5–1.0 37.6N–.20 144.5E–.10 33 3.5b,3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC V 02 08 17 52.6–.63 37.62N–.05 143.49E–.07 35 3.6b 43 2-76
NIED V 02 08 17 00 37.70N 143.50E 8 3.9W **¶17202596**
ISCJB V 02 08 17 50.9–.56 37.63N–.04 143.50E–.05 33 3.7b
JMA V 02 08 17 50.8–.20 37.74N 143.54E 43 3.8
IDC V 02 08 17 53.3–.64 37.50N 143.52E 38–4 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S21.00000°,δ27.00000°,λ-115.00000°. NP2:ϕ_S229.00000°,δ65.00000°,λ-78.00000°. $M_0$8.62000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.0km az=149.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.2km s-min=12.8km az=121.0.
ISC V 02 08 19 07.3–.64 37.57N–.06 143.53E–.07 35 4.1b 48 2-76
NIED V 02 08 19 00 37.70N 143.50E 5 4.1W **¶16708576**
IDC V 02 08 19 01.9–.60 37.46N 143.68E 0 4.2,4.1
JMA V 02 08 19 04.9–.30 37.66N 143.48E 41 3.9,4.1
ISCJB V 02 08 19 05.1–.44 37.56N–.04 143.48E–.05 33 4.0b,3.0s
NEIC V 02 08 19 07.2–.41 37.49N 143.60E 35 4.5b,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S8.00000°,δ18.00000°,λ-81.00000°. NP2:ϕ_S178.00000°,δ72.00000°,λ-93.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=13.2km az=116.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.2km az=161.7.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.8km az=132.0.
ISC V 02 08 19 20.0–.75 37.3N–.10 143.5E–.10 35 3.9b 20 4-76
IDC V 02 08 19 14.7–.70 37.33N 143.61E 0 4.2,4.0 **¶17202599**
ISCJB V 02 08 19 17.8–.60 37.30N–.08 143.47E–.10 33 3.9b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC V 02 09 09 13.3–.67 39.67N–.04 143.38E–.04 48–4 4.5b,3.7s 176 1-82
JMA V 02 09 09 05.9–.20 39.56N 143.65E 17–4 4.3,3.7s **¶16486898**
IDC V 02 09 09 06.9–.66 39.62N 143.36E 0 4.3,4.2
ISCJB V 02 09 09 07.7–.95 39.59N–.03 143.54E–.04 21–6 4.4b,3.7s
MOS V 02 09 09 09.9–.95 39.64N 143.42E 33 4.7b,3.7s
NEIC V 02 09 09 12.3–1.5 39.63N 143.37E 35–10 4.7b,3.7s
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=17.8km s-min=12.5km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.5km az=39.0.
MOS Error ellipse: s-maj=8.9km s-min=5.7km az=97.3.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.4km az=122.0.
ISC V 02 10 32 06.2–.86 35.23N–.05 142.68E–.08 42 3.6b 37 2-76
NIED V 02 10 32 00 35.30N 142.70E 5 3.7W **¶17202608**
IDC V 02 10 32 01.4–.83 35.21N 142.53E 0 3.8,3.7
JMA V 02 10 32 03.5–.40 35.33N 142.72E 45 3.6,3.7
ISCJB V 02 10 32 04.1–.63 35.24N–.04 142.69E–.05 42 3.6b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S201.00000°,δ30.00000°,λ-94.00000°. NP2:ϕ_S26.00000°,δ61.00000°,λ-88.00000°. $M_0$4.30000×10^{14}
ISCJB Event type ke.
ISC V 02 10 36 14.6–2.0 35.53N–.06 142.1E–.10 22 3.5b 13 1-59
JMA V 02 10 36 11.9–.40 35.32N 142.71E 59 3.3 **¶600604732**
IDC V 02 10 36 29.9–4.2 35.69N 141.16E 101–40 3.3,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=46.2km s-min=24.5km az=104.0.
ISC V 02 11 08 45.5–.89 37.53N–.07 143.42E–.08 35 3.9b 39 2-63
NIED V 02 11 08 00 37.70N 143.50E 8 3.8W **¶16708597**
IDC V 02 11 08 40.2–.86 37.48N 143.63E 0 4.0,3.9
ISCJB V 02 11 08 42.4–.53 37.43N–.04 143.56E–.06 33 4.0b,3.5s
JMA V 02 11 08 43.6–.30 37.67N 143.48E 40 3.8,3.5s
NEIC V 02 11 08 45.3–.57 37.54N 143.57E 35 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S332.00000°,δ30.00000°,λ-151.00000°. NP2:ϕ_S216.00000°,δ76.00000°,λ-64.00000°. $M_0$5.23000×10^{14}
IDC Error ellipse: s-maj=21.1km s-min=15.9km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.0km az=24.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=7.7km az=122.0.
ISC V 02 11 09 13.3–.73 37.41N–.09 144.6E–.10 35 4.1b 23 5-76
IDC V 02 11 09 08.7–.71 37.51N 144.64E 0 4.2,4.1 **¶16708600**
ISCJB V 02 11 09 11.0–.54 37.37N–.06 144.6E–.10 33 4.0b,4.1
NEIC V 02 11 09 13.6–.51 37.49N 144.63E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=14.9km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.2km az=15.4.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.5km az=106.0.
ISC V 02 13 12 40.1–.66 37.65N–.05 143.48E–.08 35 4.2b,3.1s 67 2-118
NIED V 02 13 12 00 37.60N 143.50E 17 3.9W,3.1s **¶16577954**
IDC V 02 13 12 34.3–.65 37.53N 143.62E 0 4.2,4.1
ISCJB V 02 13 12 37.5–.41 37.58N–.03 143.50E–.04 33 4.2b,3.3s
JMA V 02 13 12 37.6–.20 37.64N 143.50E 48 4.0,3.3s
NEIC V 02 13 12 39.7–.43 37.58N 143.57E 35 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S311.00000°,δ52.00000°,λ-180.00000°. NP2:ϕ_S221.00000°,δ90.00000°,λ-38.00000°. $M_0$8.29000×10^{14}
IDC Error ellipse: s-maj=16.4km s-min=12.9km az=111.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=41.6.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.1km az=125.0.
ISC V 02 13 27 59.2–1.4 37.53N–.05 143.5E–.10 35 3.6b 35 2-62
IDC V 02 13 27 54.1–1.7 37.49N 143.59E 0 3.8,3.7 **¶17202612**
ISCJB V 02 13 27 57.0–.75 37.52N–.04 143.48E–.06 33 3.6b,3.7
JMA V 02 13 27 57.4–.30 37.55N 143.45E 40 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=22.1km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.0km az=18.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 02 15 11 41.8–2.6 37.64N–.05 143.70E–.05 1–16 4.1b,3.9s 126 2-88
NIED V 02 15 11 00 37.70N 143.50E 5 4.1W,3.9s **¶16489785**
IDC V 02 15 11 42.0–.63 37.56N 143.67E 0 4.0,3.9
NEIC V 02 15 11 43.3–.36 37.61N 143.70E 10 4.5b,3.9
MOS V 02 15 11 44.6–1.4 37.71N 143.71E 33 4.2b,3.9
JMA V 02 15 11 45.2–.20 37.68N 143.49E 46 3.9,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S14.00000°,δ19.00000°,λ-125.00000°. NP2:ϕ_S231.00000°,δ74.00000°,λ-79.00000°. $M_0$1.71000×10^{15}
IDC Error ellipse: s-maj=18.1km s-min=12.5km az=110.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=123.0.
MOS Error ellipse: s-maj=9.5km s-min=6.1km az=101.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 02 16 48 10.4–4.3 37.58N–.05 143.53E–.07 9–28 3.6b 46 2-62
NIED V 02 16 48 00 37.70N 143.50E 5 3.9W **¶17202626**
IDC V 02 16 48 09.6–.80 37.53N 143.50E 0 3.9,3.9
JMA V 02 16 48 12.8–.20 37.67N 143.49E 42 3.7,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S1.00000°,δ23.00000°,λ-116.00000°. NP2:ϕ_S209.00000°,δ69.00000°,λ-79.00000°. $M_0$7.10000×10^{14}
IDC Error ellipse: s-maj=20.3km s-min=14.9km az=112.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 02 17 02 08.3–.20 36.96N 142.20E 43 3.5
¶600604963
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 02 17 29 34.3–.30 36.96N 143.68E 49 3.5
¶600604992
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC V 02 18 50 53.5–2.3 37.31N–.07 142.1E–.10 24 15 1-57
JMA V 02 18 50 51.9–.30 37.28N 142.19E 30–5 3.2 **¶17202630**
IDC V 02 18 50 53.1–3.0 37.52N 141.94E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=67.8km s-min=38.1km az=54.0.
ISC V 02 21 05 44.0–.94 39.25N–.07 143.75E–.09 20 3.6b 25 2-68
NIED V 02 21 05 00 39.40N 144.00E 14 3.7W **¶17202643**
JMA V 02 21 05 40.4–.20 39.42N 143.99E 18 3.9
IDC V 02 21 05 41.1–1.1 39.22N 143.84E 0 3.8,3.7
ISCJB V 02 21 05 42.3–.75 39.29N–.07 143.84E–.08 20 3.9s,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ40.00000°,λ87.00000°. NP2:ϕ_s21.00000°,δ50.00000°,λ92.00000°. $M_0$4.70000×10^{14}
ISCJB Event type ke.
ISC V 02 22 35 53.4–1.6 36.23N–.07 143.1E–.10 35 16 2-83
NIED V 02 22 35 00 36.20N 142.90E 5 3.5W **¶17202646**
IDC V 02 22 35 49.0–2.0 36.20N 143.19E 0 3.8,3.7
ISCJB V 02 22 35 51.2–1.0 36.31N–.06 143.12E–.08 33 3.7b,3.1s
JMA V 02 22 35 53.4–.40 36.24N 142.90E 23 3.6,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ28.00000°,λ-75.00000°. NP2:ϕ_s192.00000°,δ63.00000°,λ-98.00000°. $M_0$2.21000×10^{14}
IDC Error ellipse: s-maj=46.3km s-min=30.6km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=8.7km az=169.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 03 00 23 29.6–.95 35.52N–.07 142.90E–.08 35 3.7b 30 2-78
JMA V 03 00 23 26.1–.30 35.50N 142.98E 71 3.4 **¶16577962**
ISCJB V 03 00 23 27.7–.74 35.54N–.06 142.88E–.05 33 4.5s,3.8b
IDC V 03 00 23 28.3–.84 36.16N 142.89E 0 4.0,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.4km az=157.1.
IDC Error ellipse: s-maj=25.2km s-min=19.9km az=123.0.
ISC V 03 02 16 47.5–.58 36.21N–.05 142.36E–.07 18 4.1b,3.4s 69 1-80
NIED V 03 02 16 00 36.40N 142.30E 5 4.1W,3.4s **¶16493768**
NEIC V 03 02 16 44.9–.88 36.23N 142.58E 10 4.2b,3.4s
ISCJB V 03 02 16 45.1–.46 36.26N–.04 142.41E–.05 18 4.0b,3.4s
JMA V 03 02 16 47.4–.20 36.38N 142.34E 51 4.2,3.4s
IDC V 03 02 16 49.2–.63 36.25N 142.32E 30–4 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s218.00000°,δ35.00000°,λ111.00000°. NP2:ϕ_s13.00000°,δ58.00000°,λ76.00000°. $M_0$1.74000×10^{15}
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=9.7km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.8km az=34.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=17.6km s-min=12.9km az=97.0.
ISC V 03 02 55 25.9–.99 38.18N–.06 144.65E–.08 35 3.8b 38 3-88
ISCJB V 03 02 55 24.3–.68 38.14N–.05 144.61E–.05 33 4.0s,3.9b **¶17202652**
IDC V 03 02 55 25.5–5.1 37.97N 144.68E 33–39 4.2L,4.0
JMA V 03 02 55 26.0–.20 38.17N 144.51E 46 4.7,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.7km az=165.8.
IDC Error ellipse: s-maj=31.1km s-min=17.7km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 03 04 06 36.8–.87 36.83N–.07 143.22E–.08 35 3.9b 28 2-74
NIED V 03 04 06 00 36.90N 143.20E 14 3.6W **¶17202655**
IDC V 03 04 06 31.7–.80 36.63N 143.35E 0 4.0,3.9
ISCJB V 03 04 06 34.3–.65 36.71N–.05 143.17E–.06 33 3.8b,3.0s
JMA V 03 04 06 34.7–.40 36.92N 143.23E 45 3.9,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ27.00000°,λ-89.00000°. NP2:ϕ_s229.00000°,δ63.00000°,λ-90.00000°. $M_0$3.30000×10^{14}
IDC Error ellipse: s-maj=21.3km s-min=17.2km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.7km az=148.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 03 06 20 54.4–.64 36.39N–.06 142.75E–.08 15 3.8b 39 2-90
NIED V 03 06 20 00 36.50N 142.70E 8 4.0W **¶16708673**
ISCJB V 03 06 20 52.4–.50 36.34N–.04 142.78E–.06 15 3.9b,3.2s
IDC V 03 06 20 52.8–.84 36.39N 142.68E 0 4.0,3.9
JMA V 03 06 20 54.9–.50 36.47N 142.70E 79 3.6,3.9
NEIC V 03 06 20 57.3–.50 36.35N 142.65E 35 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ45.00000°,λ112.00000°. NP2:ϕ_s189.00000°,δ49.00000°,λ69.00000°. $M_0$9.49000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.5km az=27.9.
IDC Error ellipse: s-maj=20.5km s-min=17.8km az=147.0.
JMA Error ellipse: s-maj=2.2km s-min=5.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.6km az=117.0.
JMA V 03 07 03 32.2–.30 39.53N 144.58E 44 3.7
¶600605481
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 03 10 47 43.5–1.0 37.58N–.05 143.91E–.08 35 3.6b 35 2-62
NIED V 03 10 47 00 37.70N 143.90E 5 3.6W **¶17202670**
IDC V 03 10 47 38.5–1.0 37.48N 144.10E 0 3.8,3.7
ISCJB V 03 10 47 41.2–.67 37.63N–.04 143.92E–.05 33 3.5b,3.7
JMA V 03 10 47 41.6–.20 37.65N 143.87E 40 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ29.00000°,λ-114.00000°. NP2:ϕ_s219.00000°,δ64.00000°,λ-77.00000°. $M_0$2.96000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=18.2km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=6.0km az=23.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 03 11 00 08.6–.60 37.82N 143.79E 0 3.5
NIED V 03 11 00 00 37.80N 143.80E 8 3.8W **¶600605652**
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ43.00000°,λ125.00000°. NP2:ϕ_s53.00000°,δ56.00000°,λ62.00000°. $M_0$5.24000×10^{14}
ISC V 03 11 01 07.0–.92 36.37N–.05 142.16E–.08 19 3.7b 28 1-90
IDC V 03 11 01 04.0–1.1 36.25N 142.16E 0 3.9,3.8b **¶17202671**
ISCJB V 03 11 01 04.9–.82 36.32N–.04 142.27E–.08 19 3.8b,3.8b
JMA V 03 11 01 07.2–.30 36.39N 142.14E 66 2.9,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=21.6km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.7km az=1.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 03 12 08 03.0–1.7 37.62N–.08 142.6E–.10 24 3.7b 13 1-58
IDC V 03 12 07 58.7–2.6 37.52N 143.08E 0 3.7,3.6b **¶17202674**
NIED V 03 12 08 00 37.60N 142.60E 5 3.5W,3.6b
JMA V 03 12 08 00.5–.20 37.59N 142.63E 0 3.6,3.6b
ISCJB V 03 12 08 01.2–1.5 37.61N–.10 142.8E–.10 24 3.6b,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ44.00000°,λ-82.00000°. NP2:ϕ_s69.00000°,δ46.00000°,λ-98.00000°. $M_0$1.86000×10^{14}
ISCJB Event type ke.
JMA V 03 13 05 58.4–.30 37.10N 144.40E 46 3.6
¶600605753
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 03 13 34 44.1–2.3 36.25N–.06 142.3E–.10 20–13 3.6b 22 1-90
ISCJB V 03 13 34 41.7–2.2 36.21N–.05 142.5E–.10 21–25 3.6s,3.5b **¶17202679**
JMA V 03 13 34 41.9–.30 36.21N 142.55E 71 3.1,3.5b
IDC V 03 13 34 46.3–1.8 36.64N 141.91E 0 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=7.5km az=10.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=45.9km s-min=26.0km az=74.0.
ISC V 03 15 22 24.8–2.2 38.30N–.07 144.0E–.10 15 26 2-62
NIED V 03 15 22 00 38.30N 143.90E 8 3.5W **¶17202688**
JMA V 03 15 22 27.6–.20 38.35N 143.90E 35 3.6
IDC V 03 15 22 32.6–1.7 38.77N 143.01E 0 3.7,3.7b
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ51.00000°,λ-13.00000°. NP2:ϕ_s170.00000°,δ80.00000°,λ-140.00000°. $M_0$2.04000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=60.7km s-min=25.9km az=94.0.
ISC V 03 16 38 39.5–1.1 35.56N–.05 142.66E–.08 59 3.5b 30 1-65
NIED V 03 16 38 00 35.60N 142.70E 5 3.5W **¶17202696**
IDC V 03 16 38 33.0–1.0 35.42N 142.77E 0 3.6,3.6
JMA V 03 16 38 36.2–.40 35.55N 142.74E 83 3.6,3.6
ISCJB V 03 16 38 37.9–.69 35.50N–.04 142.63E–.06 59 3.5b,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s224.00000°,δ37.00000°,λ-97.00000°. NP2:ϕ_s54.00000°,δ53.00000°,λ-84.00000°. $M_0$1.96000×10^{14}
ISCJB Event type ke.
IDC V 03 17 55 42.6–2.9 37.74N 142.55E 0 3.6,3.4L
¶17202700
IDC Error ellipse: s-maj=70.3km s-min=35.6km az=52.0.
IDC V 03 18 20 00.3–9.5 36.28N 143.85E 0 3.6,3.5b
¶17202702
IDC Error ellipse: s-maj=205.6km s-min=35.3km az=28.0.
ISC V 03 21 38 53.2–1.4 37.23N–.04 142.26E–.04 5–8 4.3b,3.2s 143 1-89
NIED V 03 21 38 00 37.20N 142.40E 17 4.0W,3.2s **¶16708745**
JMA V 03 21 38 50.7–.40 37.20N 142.39E 12–4 4.3,3.2s
ISCJB V 03 21 38 52.3–1.1 37.17N–.03 142.32E–.03 13–7 4.2b,3.1s
IDC V 03 21 38 52.4–.66 37.20N 142.32E 0 4.1,4.1
NEIC V 03 21 38 54.1–2.3 37.19N 142.38E 12–14 4.5b,4.1
MOS V 03 21 38 55.3–.98 37.25N 142.33E 33 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ15.00000°,λ-37.00000°. NP2:ϕ_s184.00000°,δ81.00000°,λ-102.00000°. $M_0$1.23000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=4.1km az=43.6.
IDC Error ellipse: s-maj=17.4km s-min=13.6km az=113.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.2km az=105.0.
MOS Error ellipse: s-maj=9.2km s-min=6.3km az=118.7.
ISC V 03 21 41 22.5–1.0 36.54N–.08 143.1E–.10 29 3.7b 11 4-75
IDC V 03 21 41 18.4–1.0 36.43N 143.31E 0 3.9,3.7 **¶16577974**
ISCJB V 03 21 41 20.5–.84 36.4N–.10 143.3E–.20 29 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA V 03 22 05 07.9–.20 39.18N 143.89E 18 3.8
NIED V 03 22 05 00 39.20N 143.90E 14 3.6W **¶600606106**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ39.00000°,λ107.00000°. NP2:ϕ_s360.00000°,δ53.00000°,λ76.00000°. $M_0$3.30000×10^{14}
JMA V 03 22 06 44.6–.20 39.21N 144.22E 45 3.8
NIED V 03 22 06 00 39.20N 144.20E 5 3.6W **¶600606108**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ46.00000°,λ-125.00000°. NP2:ϕ_s207.00000°,δ54.00000°,λ-59.00000°. $M_0$2.87000×10^{14}
ISC V 03 22 22 47.8–1.6 38.20N–.03 144.37E–.03 28–11 4.0b,3.1s 96 2-144
NIED V 03 22 22 00 38.20N 144.30E 5 4.1W,3.1s **¶16577977**
IDC V 03 22 22 43.5–.61 38.08N 144.51E 0 4.1,4.0
ISCJB V 03 22 22 44.7–1.3 38.16N–.03 144.37E–.04 17–9 4.0b,3.1s
MOS V 03 22 22 46.8–1.3 38.27N 144.53E 33 4.3b,3.1s
JMA V 03 22 22 47.4–.20 38.22N 144.31E 42 4.2,3.1s
NEIC V 03 22 22 48.4–.40 38.00N 144.45E 35 4.6b,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ31.00000°,λ-102.00000°. NP2:ϕ_s197.00000°,δ60.00000°,λ-83.00000°. $M_0$1.63000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=13.4km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.0km az=145.8.
MOS Error ellipse: s-maj=10.2km s-min=6.9km az=104.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.6km az=129.0.
JMA V 04 00 16 17.3–.30 39.08N 144.07E 25 3.5
NIED V 04 00 16 00 39.10N 144.10E 5 3.5W **¶600606171**
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ36.00000°,λ-76.00000°. NP2:ϕ_s195.00000°,δ55.00000°,λ-100.00000°. $M_0$1.83000×10^{14}
JMA V 04 01 38 27.9–.20 38.25N 144.53E 33 3.7
¶600606229
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 04 01 55 24.4–.20 37.74N 144.49E 35 3.7
¶600606233
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA V 04 07 55 38.2–.20 39.46N 143.86E 0 3.7
¶600606401
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 04 08 23 52.0–.30 37.05N–.03 143.33E–.03 29–1 5.3b,5.3s 1301 2-159
NIED V 04 08 23 00 37.00N 143.30E 5 5.5W,5.3s **¶16493553**
IDC V 04 08 23 47.2–.38 36.97N 143.33E 0 5.1,5.1s
ISCJB V 04 08 23 48.1–.61 37.10N–.02 143.31E–.01 12–3 5.2b,5.2s
JMA V 04 08 23 49.4–.20 37.05N 143.35E 44 5.5,5.2s
BJI V 04 08 23 50.0 37.17N 143.16E 18 5.7s,5.5
MOS V 04 08 23 53.4–1.0 37.44N 143.21E 36 5.4b,5.3s
GCMT V 04 08 23 53.1–.10 37.03N 143.38E 12 5.5W,5.3s
NEIC V 04 08 23 53.1–.09 37.04N 143.25E 35 5.3b,5.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ41.00000°,λ-82.00000°. NP2:ϕ_s198.00000°,δ50.00000°,λ-97.00000°. $M_0$1.84000×10^{17}
IDC Error ellipse: s-maj=10.7km s-min=10.0km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=169.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=103.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c161; s129,c270; Duration: 1^{3} Moment tensor: Scale 10^{17}Nm; M_{rr}-1.85±.02 $M_{\theta\theta}$0.40±.02; $M_{\phi\phi}$1.46±.02; $M_{r\theta}$-0.06±.05; $M_{\theta\phi}$0.73±.02; $M_{\phi r}$0.10±.05; Best double couple: NP1:ϕ_s204.00000°,δ46.00000°,λ-94.00000°. NP2:ϕ_s30.00000°,δ44.00000°,λ-86.00000°. Principal axes: T 1.8340,Plg1.0000°,Azm297.0000°; N 0.0270,Plg3.0000°,Azm207.0000° ; P -1.8560,Plg87.0000°,Azm45.0000° $M_0$1.84500×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=151.0. Recorded [1 JMA] in Miyagi.
JMA V 04 08 26 20.8–.20 37.07N 143.27E 48 4.0
¶600606411
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 04 08 39 17.7–1.0 39.36N–.09 143.9E–.10 11 3.7b 13 5-61
ISCJB V 04 08 39 15.9–.83 39.36N–.07 143.9E–.10 11 3.6b **¶17202738**
IDC V 04 08 39 16.0–1.2 39.35N 143.79E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.7km az=24.0.
IDC Error ellipse: s-maj=27.6km s-min=21.2km az=121.0.
JMA V 04 08 53 44.2–.10 39.25N 143.37E 21–3 3.7
¶600606421
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 04 09 30 31.9–2.5 39.44N–.05 143.61E–.07 28–17 3.9b 63 1-87
IDC V 04 09 30 27.6–.64 39.37N 143.60E 0 3.9,3.8 **¶16591767**
JMA V 04 09 30 28.6–.20 39.44N 143.85E 28 4.2,3.8
ISCJB V 04 09 30 30.8–.85 39.46N–.03 143.73E–.06 34–7 3.9b,3.8
NEIC V 04 09 30 33.0–1.0 39.44N 143.64E 36–9 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=13.6km az=125.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=4.5km az=29.8.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.9km az=121.0.
JMA V 04 10 13 01.5–.20 37.85N 142.56E 30–3 3.7
¶600606456
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 04 11 15 03.8–6.9 34.83N 141.44E 0 3.5,3.4b
¶17202748
IDC Error ellipse: s-maj=229.7km s-min=25.6km az=60.0.

IDC V 04 11 41 50.6–2.0 36.98N 143.46E 0 3.5,3.5
¶17202750
IDC Error ellipse: s-maj=47.5km s-min=31.1km az=89.0.
JMA V 04 12 12 16.8–.30 37.38N 142.28E 8–4 3.5
NIED V 04 12 12 00 37.40N 142.30E 5 3.4W **¶600606514**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ45.00000°,λ-69.00000°. NP2:ϕ_s307.00000°,δ48.00000°,λ-109.00000°. $M_0$1.66000×10^{14}
ISC V 04 12 14 20.8–1.4 37.35N–.08 142.3E–.20 21 3.8b 15 1-61
NIED V 04 12 14 00 37.40N 142.30E 5 3.7W **¶17202753**
ISCJB V 04 12 14 18.0–.98 37.27N–.06 142.4E–.10 21 3.7b
IDC V 04 12 14 17.5–1.3 37.22N 142.53E 0 3.7b,3.7
JMA V 04 12 14 18.2–.30 37.35N 142.28E 4–3 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s308.00000°,δ40.00000°,λ-107.00000°. NP2:ϕ_s150.00000°,δ53.00000°,λ-76.00000°. $M_0$3.65000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.3km az=6.8.
IDC Error ellipse: s-maj=39.8km s-min=21.0km az=97.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 04 12 49 30.1–.80 37.34N–.05 142.22E–.05 21 3.8b 23 1-74
IDC V 04 12 49 26.0–1.0 37.34N 142.72E 0 3.7,3.6 **¶17202756**
ISCJB V 04 12 49 27.7–.69 37.36N–.05 142.44E–.06 21 3.6b,3.6
JMA V 04 12 49 28.6–.20 37.40N 142.22E 0 4.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.2km s-min=17.5km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.3km az=33.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 04 13 12 34.9–.30 37.22N 142.32E 7–3 3.6
NIED V 04 13 12 00 37.20N 142.30E 32 3.5W **¶600606546**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s211.00000°,δ33.00000°,λ104.00000°. NP2:ϕ_s14.00000°,δ58.00000°,λ81.00000°. $M_0$1.79000×10^{14}
ISC V 04 14 49 30.6–1.6 36.20N–.05 143.2E–.10 35 3.5b 16 2-60
ISCJB V 04 14 49 29.2–1.2 36.27N–.05 143.2E–.10 33 3.5b **¶17202766**
IDC V 04 14 49 29.9–2.2 35.80N 143.02E 0 3.6,3.5
JMA V 04 14 49 32.2–.20 36.33N 142.97E 51 3.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.5km az=172.8.
IDC Error ellipse: s-maj=45.8km s-min=28.8km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 04 15 27 04.1–1.0 37.30N–.05 144.03E–.08 35 3.8b 58 2-61
IDC V 04 15 26 59.9–.93 37.01N 144.19E 0 4.0,4.0 **¶16577988**
NIED V 04 15 27 00 37.30N 143.80E 8 3.8W,4.0
ISCJB V 04 15 27 01.9–.55 37.30N–.03 143.99E–.05 33 3.8b,4.0
NEIC V 04 15 27 01.3–.81 37.17N 144.14E 10 4.1b,4.0
JMA V 04 15 27 04.3–.20 37.28N 143.83E 56 4.1,4.0
ISC Event type se.
IDC Error ellipse: s-maj=29.4km s-min=17.0km az=111.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ66.00000°,λ2.00000°. NP2:ϕ_s320.00000°,δ88.00000°,λ156.00000°. $M_0$5.06000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.2km az=27.2.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=12.8km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 04 15 30 11.1–3.1 37.00N–.04 143.32E–.06 24–22 4.3b,3.6s 106 2-145
NIED V 04 15 30 00 37.00N 143.30E 5 4.3W,3.6s **¶16497684**
IDC V 04 15 30 07.0–.55 36.82N 143.45E 0 4.3,4.2
ISCJB V 04 15 30 08.2–1.2 36.97N–.03 143.28E–.03 18–8 4.2b,3.6s
JMA V 04 15 30 09.6–.10 37.01N 143.32E 53 4.0,3.6s
NEIC V 04 15 30 12.2–.24 36.86N 143.33E 35 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ20.00000°,λ-94.00000°. NP2:ϕ_s201.00000°,δ70.00000°,λ-88.00000°. $M_0$3.20000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=13.1km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.3km az=139.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=156.0.
ISC V 04 15 43 13.3–.52 35.59N–.03 142.77E–.04 59 4.1s,4.0b 72 2-146
NIED V 04 15 43 00 35.50N 143.00E 8 4.0W,4.0b **¶16497688**
IDC V 04 15 43 05.0–.57 35.42N 143.10E 0 4.1,4.0
NEIC V 04 15 43 06.9–3.5 35.39N 143.08E 13–21 4.5b,4.0
JMA V 04 15 43 08.2–.30 35.55N 142.97E 59 4.1,4.0
ISCJB V 04 15 43 10.9–.38 35.50N–.04 142.77E–.04 59 4.1b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ29.00000°,λ-80.00000°. NP2:ϕ_s181.00000°,δ61.00000°,λ-96.00000°. $M_0$1.24000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC V 04 16 08 52.2–1.4 37.10N–.05 143.34E–.09 35 36 2-61
IDC V 04 16 08 47.5–2.0 37.02N 143.62E 0 3.7,3.6 **¶17202771**
ISCJB V 04 16 08 51.1–.80 37.05N–.03 143.31E–.06 33 3.5b,3.6
JMA V 04 16 08 52.1–.20 37.09N 143.25E 42 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=47.3km s-min=31.3km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=2.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 04 16 14 48.8–.30 37.25N 142.47E 8–3 3.6
NIED V 04 16 14 00 37.20N 142.50E 11 3.4W **¶600606638**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s146.00000°,δ33.00000°,λ-107.00000°. NP2:ϕ_s346.00000°,δ59.00000°,λ-79.00000°. $M_0$1.57000×10^{14}
ISC V 04 16 45 04.6–2.8 36.20N–.05 142.53E–.06 2–17 4.1b 59 1-90
NIED V 04 16 45 00 36.30N 142.50E 8 4.0W **¶16577992**
IDC V 04 16 45 04.2–.72 36.17N 142.62E 0 4.0,3.9
JMA V 04 16 45 07.2–.10 36.26N 142.52E 56 3.8,3.9
NEIC V 04 16 45 09.1–.57 36.19N 142.58E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s221.00000°,δ38.00000°,λ119.00000°. NP2:ϕ_s6.00000°,δ57.00000°,λ69.00000°. $M_0$1.14000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=15.3km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.9km az=114.0.
ISC V 04 17 16 54.4–.64 38.50N–.05 144.52E–.07 29 3.7b 62 2-92
IDC V 04 17 16 49.4–.69 38.35N 144.66E 0 4.0,3.9 **¶16708819**
ISCJB V 04 17 16 52.6–.43 38.52N–.04 144.49E–.04 29 4.5s,3.8b
NEIC V 04 17 16 52.2–3.9 38.44N 144.64E 16–24 4.4b,3.8b
JMA V 04 17 16 53.4–.30 38.47N 144.45E 43 4.1,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.1km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=149.3.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.1km az=126.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 04 17 23 27.4–.64 37.08N–.05 142.36E–.05 9 4.1b 45 1-75
ISCJB V 04 17 23 25.2–.43 37.09N–.04 142.60E–.05 9 4.1b **¶16708820**
IDC V 04 17 23 25.8–.75 37.08N 142.71E 0 4.1,4.1b
JMA V 04 17 23 26.0–.30 37.09N 142.51E 12–4 4.2,4.1b
NEIC V 04 17 23 28.3–2.7 37.06N 142.66E 17–17 4.5b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.2km az=37.4.
IDC Error ellipse: s-maj=19.5km s-min=13.9km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.0km az=98.0.
JMA V 04 18 12 25.9–.20 38.57N 143.79E 43 3.6
¶600606724
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 04 18 19 35.8–1.1 37.07N–.06 143.39E–.08 35 3.9b 20 2-70
IDC V 04 18 19 31.9–1.1 36.99N 143.60E 0 3.8,3.7 **¶17202777**
ISCJB V 04 18 19 34.2–.79 37.09N–.06 143.36E–.07 33 3.7b,3.7
JMA V 04 18 19 35.0–.20 37.10N 143.26E 40 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=19.4km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.5km az=25.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 04 18 19 46.0–2.9 36.71N 143.31E 0 3.7,3.6
¶17202780
IDC Error ellipse: s-maj=72.5km s-min=28.1km az=51.0.
ISC V 04 19 15 42.9–1.3 38.16N–.06 144.09E–.09 35 3.5b 30 2-62
IDC V 04 19 15 37.4–1.3 38.09N 144.31E 0 3.8L,3.6 **¶17202786**
ISCJB V 04 19 15 40.7–.75 38.13N–.05 144.11E–.06 33 3.5b,3.6
JMA V 04 19 15 41.6–.20 38.21N 144.02E 31 4.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.2km s-min=19.5km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.3km az=14.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 04 21 39 07.3–.49 37.08N–.04 142.28E–.05 10 4.2b,3.3s 85 1-146
NIED V 04 21 39 00 37.20N 142.40E 14 4.0W,3.3s **¶16577995**
JMA V 04 21 39 03.6–.20 37.10N 142.47E 0 4.3,3.3s
ISCJB V 04 21 39 05.4–.32 37.10N–.03 142.49E–.03 10 4.2b,3.3s
IDC V 04 21 39 05.6–.56 37.03N 142.34E 0 4.1,4.0L
NEIC V 04 21 39 09.2–2.1 37.08N 142.41E 24–15 4.6b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ33.00000°,λ-138.00000°. NP2:ϕ_s230.00000°,δ69.00000°,λ-64.00000°. $M_0$1.28000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=3.9km az=162.1.
IDC Error ellipse: s-maj=15.8km s-min=12.5km az=92.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=6.9km az=106.0. Recorded [1 JMA] in Fukushima.
ISC V 04 22 40 46.6–1.1 35.70N–.06 142.72E–.09 59 3.5b 13 2-90
IDC V 04 22 40 40.0–1.1 35.56N 143.27E 0 3.6,3.4 **¶17202802**
JMA V 04 22 40 44.9–.30 35.87N 142.78E 74 3.1,3.4
ISCJB V 04 22 40 45.2–.94 35.78N–.06 142.76E–.08 59 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC V 05 00 34 08.2–.79 36.8N–.10 143.6E–.10 10 4.0b 22 4-74
ISCJB V 05 00 34 06.0–.55 36.92N–.08 143.52E–.09 10 4.2b,3.7s **¶16708861**
IDC V 05 00 34 07.4–.93 36.76N 143.89E 0 3.9,3.8L
NEIC V 05 00 34 11.8–.35 37.00N 143.38E 35 4.3b,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=9.4km az=140.3.
IDC Error ellipse: s-maj=30.6km s-min=21.2km az=117.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.6km az=132.0.
ISC V 05 02 09 21.6–3.2 36.98N–.05 142.33E–.06 10–20 3.7b 45 1-75
NIED V 05 02 09 00 37.00N 142.30E 29 3.9W **¶16577997**
ISCJB V 05 02 09 20.9–1.3 37.01N–.03 142.41E–.05 16–9 3.8b
IDC V 05 02 09 21.1–.92 37.06N 142.31E 0 4.0L,3.9
JMA V 05 02 09 22.6–.30 37.01N 142.29E 25–5 4.2,3.9
NEIC V 05 02 09 24.5–.83 37.02N 142.54E 35 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ23.00000°,λ87.00000°. NP2:ϕ_s22.00000°,δ67.00000°,λ91.00000°. $M_0$8.25000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.7km az=13.3.
IDC Error ellipse: s-maj=26.3km s-min=16.8km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=10.9km az=106.0.
JMA V 05 02 10 58.6–.30 37.48N 144.01E 36 4.1
NIED V 05 02 10 00 37.50N 144.00E 5 3.8W **¶600606995**
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ20.00000°,λ-70.00000°. NP2:ϕ_s204.00000°,δ71.00000°,λ-97.00000°. $M_0$6.26000×10^{14}
ISC V 05 03 05 03.3–1.9 37.59N–.06 143.61E–.05 24–12 4.6b,4.0s 185 2-149
IDC V 05 03 04 58.0–.52 37.32N 143.72E 0 4.5,4.3 **¶16497717**
ISCJB V 05 03 05 00.4–1.2 37.57N–.04 143.51E–.03 13–7 4.5b,4.0s
NIED V 05 03 05 00 37.50N 143.50E 8 4.3W,4.0s
NEIC V 05 03 05 00.3–.30 37.37N 143.67E 10 4.7b,4.0s
JMA V 05 03 05 01.8–.30 37.50N 143.50E 41 4.3,4.0s
MOS V 05 03 05 02.6–1.9 37.49N 143.55E 33 4.7b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=13.7km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.8km az=166.6.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ28.00000°,λ-128.00000°. NP2:ϕ_s206.00000°,δ68.00000°,λ-72.00000°. $M_0$3.41000×10^{15}
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.3km az=144.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=5.6km az=113.5.
JMA V 05 03 45 09.2–.20 38.13N 144.03E 42 3.7
¶600607053
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 05 04 12 51.9–3.3 37.36N–.07 142.49E–.08 6–19 3.5b 23 1-89
ISCJB V 05 04 12 49.3–2.0 37.31N–.05 142.59E–.05 3–13 3.5b **¶17202816**
JMA V 05 04 12 49.6–.30 37.31N 142.53E 0 4.0
IDC V 05 04 12 50.8–1.0 37.30N 142.55E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.3km az=175.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.2km s-min=20.0km az=121.0.
IDC V 05 04 33 17.9–3.9 34.90N 142.83E 0 3.7,3.6
¶17202818
IDC Error ellipse: s-maj=78.1km s-min=36.9km az=41.0.
ISC V 05 04 35 57.4–3.1 34.80N–.05 142.97E–.06 1–19 4.1b,3.7s 62 2-147
IDC V 05 04 35 59.1–.65 34.83N 142.91E 0 4.3L,4.2 **¶16578000**
ISCJB V 05 04 36 00.1–1.5 34.92N–.05 142.85E–.04 19–11 4.0b,3.7s
NEIC V 05 04 36 00.5–.48 34.92N 142.88E 10 4.1b,3.7s
NIED V 05 04 36 00 34.90N 142.90E 5 4.0W,3.7s
JMA V 05 04 36 01.4–.30 34.90N 142.87E 42 4.2,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.3km az=177.6.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.0km az=119.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ22.00000°,λ-89.00000°. NP2:ϕ_s196.00000°,δ68.00000°,λ-90.00000°. $M_0$1.12000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 05 06 07 25.1–1.3 37.47N–.05 143.61E–.10 35 3.8b 32 2-61
NIED V 05 06 07 00 37.50N 143.50E 8 3.6W **¶17202823**
IDC V 05 06 07 20.3–1.7 37.45N 143.80E 0 3.9L,3.8
ISCJB V 05 06 07 23.8–.76 37.45N–.04 143.57E–.06 33 3.7b,3.8
JMA V 05 06 07 24.5–.20 37.49N 143.53E 46 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ26.00000°,λ-150.00000°. NP2:ϕ_s221.00000°,δ77.00000°,λ-67.00000°. $M_0$3.15000×10^{14}
IDC Error ellipse: s-maj=45.2km s-min=18.9km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=16.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 05 06 10 09.3–2.4 37.51N–.07 143.4E–.20 54–27 3.7b 17 2-62
NIED V 05 06 10 00 37.50N 143.50E 8 3.5W **¶17202824**
IDC V 05 06 10 02.0–1.2 37.48N 143.80E 0 3.8,3.7
ISCJB V 05 06 10 06.8–1.3 37.50N–.06 143.57E–.09 56–14 3.7b,3.1s
JMA V 05 06 10 07.3–.20 37.50N 143.52E 45 3.5,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ22.00000°,λ62.00000°. NP2:ϕ_s214.00000°,δ71.00000°,λ101.00000°. $M_0$2.14000×10^{14}
IDC Error ellipse: s-maj=33.9km s-min=20.8km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=8.9km az=27.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 05 08 42 49.6–.20 37.76N 142.45E 13–4 3.9
NIED V 05 08 42 00 37.80N 142.50E 38 3.6W **¶600607173**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ52.00000°,λ21.00000°. NP2:ϕ_s165.00000°,δ74.00000°,λ141.00000°. $M_0$2.73000×10^{14}
ISC V 05 08 53 58.8–.86 37.33N–.06 142.42E–.08 21 3.9b 30 1-89
NIED V 05 08 53 00 37.40N 142.40E 5 4.1W **¶16708889**
IDC V 05 08 53 55.5–.75 37.25N 142.57E 0 4.1,3.9
ISCJB V 05 08 53 56.8–.51 37.32N–.04 142.54E–.06 21 3.9b,3.7s

JMA V 05 08 53 57.4–.40 37.39N 142.41E 12 3.9,3.7s
NEIC V 05 08 54 00.6–.54 37.28N 142.58E 35 4.1b,3.7s
ISC Event type se.
NIED Moment Tension Solution. Best double couple: NP1:ϕ_s200.00000°,δ25.00000°,λ-83.00000°. NP2:ϕ_s13.00000°,δ65.00000°,λ-93.00000°. $M_0$1.53000×10^{15}
IDC Error ellipse: s-maj=19.9km s-min=16.7km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.0km az=179.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.4km az=120.0.
ISC V 05 10 36 31.0–1.5 38.11N–.07 143.78E–.09 35 20 2-62
NIED V 05 10 36 00 38.20N 143.50E 5 3.4W **¶17202839**
ISCJB V 05 10 36 29.0–.95 38.09N–.05 143.82E–.08 33 3.5b
JMA V 05 10 36 29.3–.20 38.19N 143.52E 0 3.5
IDC V 05 10 36 34.9–7.6 36.78N 143.52E 0 3.6,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ25.00000°,λ-16.00000°. NP2:ϕ_s158.00000°,δ83.00000°,λ-114.00000°. $M_0$1.64000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.8km az=24.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=159.3km s-min=36.8km az=22.0.
ISC V 05 13 40 06.8–2.3 38.27N–.07 144.6E–.10 44–31 22 2-59
ISCJB V 05 13 40 05.8–1.2 38.27N–.07 144.59E–.08 59–21 3.5b **¶17202852**
JMA V 05 13 40 05.6–.10 38.28N 144.57E 39 4.0
IDC V 05 13 40 05.1–2.8 37.60N 144.67E 0 3.7,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=9.7km az=148.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=69.0km s-min=36.0km az=66.0.
ISC V 05 14 58 19.8–.39 38.20N–.03 144.15E–.03 20–1 6.1b,5.8s 2189 2-164
NIED V 05 14 58 00 38.20N 144.10E 8 6.0W,5.8s **¶16497745**
ISCJB V 05 14 58 16.4–.49 38.18N–.01 144.08E–.01 6–3 6.0b,5.8s
IDC V 05 14 58 16.6–.28 38.16N 144.22E 0 5.7,5.7
BJI V 05 14 58 17.9 38.20N 144.00E 20 6.3s,6.2
NEIC V 05 14 58 18.7–.09 38.17N 144.03E 11 6.2b,6.1W
GCMT V 05 14 58 18.7–.10 38.24N 144.17E 14–0 6.1W,6.1W
MOS V 05 14 58 19.6–.98 38.23N 144.12E 33 6.0b,5.8s
JMA V 05 14 58 19.1–.20 38.21N 144.12E 42 6.1,5.8s
NEIC V 05 14 58 21.0–.00 37.97N 144.44E 24 6.1,5.8s
NEIC V 05 14 58 41.0–.00 38.69N 143.95E 13 6.1,5.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ48.00000°,λ-122.00000°. NP2:ϕ_s41.00000°,δ51.00000°,λ-60.00000°. $M_0$1.09000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=162.0.
IDC Error ellipse: s-maj=9.6km s-min=7.5km az=87.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=149.0. Recorded [3 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s18 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.45 $M_{\theta\theta}$-0.64 $M_{\phi\phi}$2.09 $M_{r\theta}$0.13 $M_{\theta\phi}$0.55 $M_{\phi r}$-0.04 Best double couple: NP1:ϕ_s201.00000° ,δ46.00000°,λ-75.00000°. NP2:ϕ_s1.00000°,δ46.00000°,λ-105.00000°. Principal axes: T 2.2000,Plg0.0000°,Azm101.0000°; N -0.7200,Plg10.0000°,Azm11.0000° ; P -1.4800,Plg80.0000°,Azm192.0000° $M_0$1.90000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s20.00000°,δ25.00000°,λ-90.00000°. NP2: ϕ_s200.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm290.0000° ; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm110.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c273; s131,c431;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.12±.01 $M_{\theta\theta}$-0.39±.01; $M_{\phi\phi}$1.51±.01; $M_{r\theta}$0.11±.02; $M_{\theta\phi}$0.84±.01; $M_{\phi r}$0.37±.02; Best double couple: NP1:ϕ_s197.00000°,δ52.00000°,λ-95.00000°. NP2:ϕ_s25.00000° ,δ38.00000°,λ-84.00000°. Principal axes: T 1.8770,Plg7.0000°,Azm291.0000° ; N -0.7030,Plg4.0000°,Azm200.0000°; P -1.1710,Plg82.0000°,Azm84.0000° $M_0$1.52400×10^{18}
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=103.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.07 $M_{\theta\theta}$-0.12 $M_{\phi\phi}$1.19 $M_{r\theta}$-0.08 $M_{\theta\phi}$0.20 $M_{\phi r}$0.77 Best double couple: NP1:ϕ_s180.00000° ,δ62.00000°,λ-99.00000°. NP2:ϕ_s18.00000°,δ29.00000°,λ-73.00000°. Principal axes: T 1.4400,Plg16.0000°,Azm276.0000°; N -0.1200,Plg7.0000°,Azm183.0000° ; P -1.3200,Plg71.0000°,Azm69.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Moment Tensor Solution. s78 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.41 $M_{\theta\theta}$-0.26 $M_{\phi\phi}$1.67 $M_{r\theta}$0.27 $M_{\theta\phi}$0.83 $M_{\phi r}$-1.01 Best double couple: NP1:ϕ_s225.00000° ,δ37.00000°,λ-50.00000°. NP2:ϕ_s359.00000°,δ62.00000°,λ-116.00000°. Principal axes: T 2.1800,Plg14.0000°,Azm107.0000°; N -0.3000,Plg23.0000°,Azm11.0000° ; P -1.8800,Plg63.0000°,Azm226.0000° $M_0$2.00000×10^{18}
ISC V 05 15 08 17.5–1.2 38.16N–.05 144.16E–.09 35 37 2-62
IDC V 05 15 08 14.3–2.0 38.07N 144.23E 0 4.5,4.4 **¶17202857**
ISCJB V 05 15 08 17.5–.83 38.22N–.04 144.07E–.06 33 4.5b,4.4
JMA V 05 15 08 18.1–.30 38.19N 143.95E 29 4.1,4.4
ISC Event type ke.
IDC Error ellipse: s-maj=49.1km s-min=29.5km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.7km az=12.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 05 15 12 52.9–.00 38.23N–.05 144.13E–.06 23–6 4.6b 192 2-144
IDC V 05 15 12 49.2–.64 38.16N 144.15E 0 4.4,4.3 **¶16497747**
ISCJB V 05 15 12 51.7–1.1 38.30N–.03 144.03E–.03 23–8 4.5b,4.4s
MOS V 05 15 12 51.8–1.2 38.31N 144.17E 33 4.7b,4.4s
JMA V 05 15 12 52.5–.20 38.26N 144.04E 39 4.5,4.4s
NEIC V 05 15 12 53.0–1.6 38.25N 144.07E 20–11 4.7b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.9km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=4.0km az=160.2.
MOS Error ellipse: s-maj=10.1km s-min=6.7km az=103.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.3km az=133.0.
ISC V 05 15 19 32.3–1.1 38.12N–.05 144.10E–.09 35 3.5b 34 2-62
IDC V 05 15 19 26.9–1.0 37.94N 144.36E 0 3.6,3.6 **¶17202858**
ISCJB V 05 15 19 30.8–.76 38.17N–.05 144.11E–.05 33 3.5b,3.6
JMA V 05 15 19 32.3–.20 38.23N 143.97E 31 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=18.8km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=141.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 05 15 22 31.3–1.7 38.23N–.06 144.02E–.08 45–18 3.9b 37 2-62
IDC V 05 15 22 24.5–1.8 38.15N 144.19E 0 4.2,4.2s **¶16708926**
JMA V 05 15 22 28.7–.20 38.29N 143.79E 1 3.9,4.2s
NEIC V 05 15 22 28.5–.92 38.16N 144.33E 35 4.1b,4.2s
ISCJB V 05 15 22 29.1–.98 38.30N–.04 144.07E–.07 57–12 4.2s,3.8b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 05 15 32 10.3–.47 38.23N–.04 144.07E–.06 35 4.5b 92 2-144
IDC V 05 15 32 05.1–.85 38.18N 144.24E 0 4.2,4.2 **¶17202861**
ISCJB V 05 15 32 08.4–.32 38.25N–.03 144.08E–.04 33 4.5b,4.2
JMA V 05 15 32 08.6–.20 38.35N 143.98E 23 4.1,4.2
NEIC V 05 15 32 10.5–.30 38.27N 144.13E 35 4.6b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=22.5km s-min=15.0km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=4.0km az=163.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=130.0.
ISC V 05 15 45 38.7–1.1 37.07N–.05 143.32E–.08 35 3.6b 31 2-61
IDC V 05 15 45 33.8–1.1 37.06N 143.58E 0 3.9,3.7 **¶17202862**
ISCJB V 05 15 45 37.2–.77 37.06N–.04 143.29E–.06 33 3.7b,3.7
JMA V 05 15 45 38.0–.20 37.07N 143.25E 46 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=32.2km s-min=20.3km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.6km az=173.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 05 15 57 05.0–1.2 38.27N–.06 144.15E–.08 29 3.5b 33 2-62
IDC V 05 15 57 00.2–2.0 38.25N 144.48E 0 3.6,3.5 **¶17202864**
ISCJB V 05 15 57 03.3–.79 38.32N–.04 144.11E–.06 29 3.5b,3.5
JMA V 05 15 57 03.9–.30 38.29N 144.09E 39 3.5,3.5

ISC Event type ke.
IDC Error ellipse: s-maj=54.5km s-min=21.8km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.3km az=37.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC V 05 17 23 31.2–2.0 38.25N 144.42E 0 3.4,3.3
¶17202872
IDC Error ellipse: s-maj=58.2km s-min=26.9km az=83.0.
JMA V 05 17 31 00.5–.30 40.21N 143.33E 11–3 3.6
¶600607407
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 05 18 34 27.3–1.6 38.09N–.06 144.31E–.08 58–18 3.6b 30 2-74
IDC V 05 18 34 19.1–.83 38.01N 144.76E 0 4.4,4.4s **¶17202875**
ISCJB V 05 18 34 25.3–.97 38.16N–.04 144.37E–.07 59–10 4.5s,3.6b
JMA V 05 18 34 26.1–.20 38.11N 144.30E 48 4.5,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=16.5km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.8km az=22.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 05 18 36 16.6–.50 35.68N–.03 142.10E–.03 27–2 5.2s,5.0b 500 1-152
NIED V 05 18 36 00 35.70N 142.30E 5 5.2W,5.0b **¶16497764**
IDC V 05 18 36 11.9–.48 35.61N 142.07E 0 4.8,4.7s
JMA V 05 18 36 12.3–.30 35.69N 142.35E 51 5.4,4.7s
ISCJB V 05 18 36 14.2–.80 35.68N–.02 142.01E–.03 21–5 5.2s,4.9b
MOS V 05 18 36 15.6–1.2 35.70N 141.99E 33 5.4s,5.2b
NEIC V 05 18 36 17.0–1.8 35.59N 141.99E 30–13 5.0b,5.2b
GCMT V 05 18 36 17.0–.20 35.58N 142.25E 16–0 5.2W,5.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ28.00000°,λ64.00000°. NP2:ϕ_s30.00000°,δ65.00000°,λ104.00000°. $M_0$7.73000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=11.9km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.1km az=43.3.
MOS Error ellipse: s-maj=7.4km s-min=4.2km az=114.3.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=131.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s45,c68; s100,c180; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.64±.03 $M_{\theta\theta}$-0.18±.02; $M_{\phi\phi}$-0.46±.02; $M_{r\theta}$0.36±.05; $M_{\theta\phi}$-0.23±.01; $M_{\phi r}$0.45±.05; Best double couple: NP1:ϕ_s36.00000°,δ67.00000° ,λ95.00000°. NP2:ϕ_s204.00000°,δ24.00000°,λ79.00000°. Principal axes: T 0.8710,Plg68.0000°,Azm314.0000°; N -0.0560,Plg4.0000°,Azm214.0000° ; P -0.8160,Plg21.0000°,Azm122.0000° $M_0$0.84400×10^{17}
JMA V 05 19 52 00.9–.30 37.99N 142.23E 33–3 3.7
¶600607483
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 05 20 10 56.1–1.9 36.63N–.04 142.17E–.06 1–11 4.0b 64 1-146
NIED V 05 20 10 00 36.70N 142.10E 23 4.1W **¶16578008**
IDC V 05 20 10 56.3–.73 36.59N 142.12E 0 4.0,4.0
JMA V 05 20 10 58.8–.30 36.70N 142.11E 25 4.1,4.0
NEIC V 05 20 11 00.7–2.3 36.52N 142.18E 33–16 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ22.00000°,λ88.00000°. NP2:ϕ_s25.00000°,δ68.00000°,λ91.00000°. $M_0$1.45000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=14.7km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.5km az=89.0.
ISC V 05 20 15 10.4–.48 36.73N–.05 142.30E–.05 15 4.2b,3.9s 97 1-151
ISCJB V 05 20 15 08.2–.36 36.67N–.04 142.34E–.04 15 4.2b,3.8s **¶16501717**
IDC V 05 20 15 08.2–.60 36.68N 142.26E 0 4.2,4.1
JMA V 05 20 15 09.3–.30 36.73N 142.30E 19 4.2,4.1
MOS V 05 20 15 14.1–1.1 37.05N 142.05E 36 4.5b,4.1
NEIC V 05 20 15 14.1–1.2 36.69N 142.16E 39–10 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=140.7.
IDC Error ellipse: s-maj=14.9km s-min=13.0km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=10.3km s-min=6.6km az=110.4.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.3km az=120.0.
ISC V 05 20 26 34.8–.64 37.63N–.06 142.66E–.07 24 3.9b 39 1-89
IDC V 05 20 26 30.7–.67 37.57N 142.80E 0 3.9,3.8 **¶16708960**
JMA V 05 20 26 31.2–.30 37.62N 142.61E 0 4.1,3.8
ISCJB V 05 20 26 32.9–.49 37.64N–.06 142.68E–.05 24 3.9b,2.9s
NEIC V 05 20 26 33.7–4.5 37.62N 142.78E 17–28 4.7b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=17.3km s-min=15.3km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=5.3km az=158.3.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=9.0km az=130.0.
JMA V 05 22 16 21.0–.20 38.30N 144.25E 31 3.6
NIED V 05 22 16 00 38.30N 144.20E 5 3.4W **¶600607547**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s3.00000°,δ31.00000°,λ-112.00000°. NP2:ϕ_s209.00000°,δ61.00000°,λ-77.00000°. $M_0$1.36000×10^{14}
ISC V 05 22 26 08.5–2.7 36.45N–.05 142.61E–.06 23–19 4.0b 78 2-146
NIED V 05 22 26 00 36.50N 142.60E 23 3.9W **¶16501724**
IDC V 05 22 26 04.9–.61 36.36N 142.62E 0 4.1,4.0
ISCJB V 05 22 26 05.6–1.4 36.44N–.04 142.61E–.04 15–10 4.0b,3.7s
JMA V 05 22 26 07.1–.20 36.48N 142.60E 32 4.0,3.7s
MOS V 05 22 26 08.6–1.4 36.47N 142.54E 33 4.4b,3.7s
NEIC V 05 22 26 09.8–.42 36.30N 142.59E 35 4.2b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ38.00000°,λ111.00000°. NP2:ϕ_s176.00000°,δ54.00000°,λ74.00000°. $M_0$8.21000×10^{14}
IDC Error ellipse: s-maj=16.1km s-min=13.8km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.9km az=165.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=11.3km s-min=7.8km az=116.6.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=8.2km az=136.0.
ISC V 05 22 32 41.4–.88 38.17N–.07 144.25E–.08 10 3.7b 31 2-75
NIED V 05 22 32 00 38.40N 143.90E 5 3.7W **¶17202882**
ISCJB V 05 22 32 40.9–.68 38.16N–.06 144.14E–.06 10 3.6b
IDC V 05 22 32 40.2–.96 38.20N 144.46E 0 3.7,3.6
JMA V 05 22 32 44.9–.30 38.35N 143.86E 9 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s182.00000°,δ56.00000°,λ-88.00000°. $M_0$3.93000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.2km az=147.2.
IDC Error ellipse: s-maj=25.2km s-min=18.8km az=91.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 05 23 09 11.0–.46 37.23N–.06 142.55E–.05 9 4.5b,4.1s 131 1-146
NIED V 05 23 09 00 37.30N 142.50E 8 4.3W,4.1s **¶16501728**
JMA V 05 23 09 06.5–.10 37.34N 142.56E 0 4.6,4.1s
IDC V 05 23 09 08.8–.51 37.27N 142.55E 0 4.3,4.3
ISCJB V 05 23 09 09.1–.21 37.29N–.03 142.52E–.02 9 4.5b,4.3s
NEIC V 05 23 09 10.7–1.9 37.26N 142.56E 10–11 4.7b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ34.00000°,λ-105.00000°. NP2:ϕ_s215.00000°,δ57.00000°,λ-80.00000°. $M_0$3.37000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=11.4km az=114.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=166.5.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.7km az=137.0. Recorded [1 JMA] in Miyagi.
JMA V 05 23 15 14.7–.40 37.34N 142.52E 12 3.8
NIED V 05 23 15 00 37.30N 142.50E 5 3.6W **¶600607568**
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ47.00000°,λ-120.00000°. NP2:ϕ_s61.00000°,δ50.00000°,λ-62.00000°. $M_0$2.93000×10^{14}
JMA V 05 23 30 16.7–.20 38.02N 144.06E 36 3.7
¶600607573
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 06 00 17 10.7–2.0 39.56N–.04 143.48E–.05 24–14 4.2b,3.6s 100 1-81

JMA V 06 00 17 08.5–.20 39.61N 143.54E 26–5 4.2,3.6s ¶16578017
ISCJB V 06 00 17 09.4–1.2 39.59N–.03 143.53E–.04 28–8 4.1b,3.6s
MOS V 06 00 17 09.5–1.1 39.52N 143.55E 33 4.4b,3.6s
IDC V 06 00 17 13.3–3.0 39.56N 143.38E 40–26 3.9,3.9
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=141.4.
MOS Error ellipse: s-maj=10.7km s-min=5.9km az=95.2.
IDC Error ellipse: s-maj=18.4km s-min=15.6km az=125.0.
ISC V 06 00 37 09.6–.62 38.19N–.05 144.17E–.06 26–3 3.8b 77 2-83
ISCJB V 06 00 37 08.7–1.2 38.20N–.03 144.11E–.04 32–9 3.8b ¶16578018
JMA V 06 00 37 08.2–.20 38.19N 144.15E 44 4.2
IDC V 06 00 37 09.7–.69 38.04N 144.16E 29–3 3.9,3.8
NEIC V 06 00 37 09.7–2.8 38.11N 144.22E 28–19 4.0b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.7km az=149.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=13.6km az=155.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.0km az=123.0.
ISC V 06 00 45 49.8–3.7 37.06N–.10 142.2E–.10 11–17 3.2b 19 1-57
NIED V 06 00 45 00 37.00N 142.40E 14 3.6W ¶600607607
JMA V 06 00 45 47.2–.30 36.99N 142.39E 8–4 3.8
IDC V 06 00 45 56.7–2.2 37.89N 141.38E 0 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ56.00000°,λ-143.00000°. NP2:ϕ_s47.00000°,δ60.00000°,λ-40.00000°. $M_0$3.22000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=43.1km s-min=30.0km az=69.0.
ISC V 06 01 47 34.0–.57 38.01N–.05 143.74E–.06 27–3 3.8b 66 2-88
ISCJB V 06 01 47 32.5–1.4 38.06N–.04 143.68E–.04 28–11 3.8b,3.0s ¶17202887
JMA V 06 01 47 32.1–.20 38.04N 143.71E 36 4.0,3.0s
IDC V 06 01 47 35.2–.56 37.83N 143.90E 38–4 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.0km az=144.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=12.8km az=125.0.
ISC V 06 03 02 27.0–1.5 36.40N–.05 142.0E–.10 19 3.3b 16 1-56
ISCJB V 06 03 02 25.5–1.3 36.36N–.05 142.1E–.10 19 3.3b ¶17202895
JMA V 06 03 02 26.7–.40 36.38N 142.10E 42 2.6
IDC V 06 03 02 33.3–2.6 36.82N 141.70E 29–9 3.3,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=6.5km az=8.4.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=69.5km s-min=29.2km az=60.0.
JMA V 06 03 40 03.0–.10 38.26N 143.96E 30 3.5
NIED V 06 03 40 00 38.30N 144.00E 11 3.4W ¶600607733
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ69.00000°,λ-18.00000°. NP2:ϕ_s154.00000°,δ73.00000°,λ-158.00000°. $M_0$1.52000×10^{14}
ISC V 06 03 50 47.7–2.9 34.83N–.06 142.77E–.09 9–15 3.0s 27 1-77
IDC V 06 03 50 46.8–3.8 34.79N 142.89E 0 3.7,3.7 ¶17202899
JMA V 06 03 50 49.1–.50 34.86N 142.90E 66 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=73.7km s-min=34.6km az=46.0.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC V 06 03 52 34.3–.98 38.43N–.07 144.36E–.07 29 3.7b 35 2-80
NIED V 06 03 52 00 38.40N 144.50E 5 3.9W ¶17202900
IDC V 06 03 52 28.8–1.0 38.32N 144.87E 0 3.9,3.8
ISCJB V 06 03 52 32.7–.71 38.46N–.05 144.44E–.06 29 3.6b,3.8
JMA V 06 03 52 32.3–.20 38.44N 144.47E 37 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ20.00000°,λ-88.00000°. NP2:ϕ_s212.00000°,δ70.00000°,λ-91.00000°. $M_0$8.31000×10^{14}
IDC Error ellipse: s-maj=26.3km s-min=18.9km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=139.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 06 04 32 48.2–1.7 38.16N–.05 143.97E–.04 24–12 4.3b,3.5s 156 2-85
IDC V 06 04 32 44.2–.53 38.01N 143.94E 0 4.2,4.1 ¶16501736
NEIC V 06 04 32 45.7–2.2 38.03N 144.00E 10–13 4.5b,4.1
MOS V 06 04 32 47.1–1.2 38.13N 144.03E 33 4.5b,4.1
JMA V 06 04 32 47.1–.20 38.08N 143.87E 41 4.4,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.7km az=103.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=113.0.
MOS Error ellipse: s-maj=9.6km s-min=5.8km az=98.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 06 05 09 26.1–.20 38.45N 144.49E 38 3.7
NIED V 06 05 09 00 38.40N 144.50E 5 3.5W ¶600607760
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ14.00000°,λ-65.00000°. NP2:ϕ_s176.00000°,δ77.00000°,λ-96.00000°. $M_0$2.14000×10^{14}
ISC V 06 06 02 00.1–.99 38.19N–.05 144.08E–.08 35 3.5b 32 2-62
NIED V 06 06 01 00 38.20N 144.10E 5 3.6W ¶17202904
IDC V 06 06 01 55.3–1.1 38.02N 144.16E 0 3.8L,3.7
ISCJB V 06 06 01 56.9–.76 38.13N–.04 144.19E–.06 33 3.5b,3.7
JMA V 06 06 01 58.4–.20 38.18N 144.08E 45 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ45.00000°,λ-81.00000°. NP2:ϕ_s166.00000°,δ46.00000°,λ-99.00000°. $M_0$2.91000×10^{14}
IDC Error ellipse: s-maj=30.9km s-min=21.1km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.2km az=177.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 06 06 53 46.0–.20 38.24N 144.00E 34 4.2
¶600607792
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 06 06 57 50.0–.20 38.21N 143.94E 25 3.5
NIED V 06 06 57 00 38.20N 143.90E 5 3.6W ¶600607793
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ21.00000°,λ-89.00000°. NP2:ϕ_s187.00000°,δ69.00000°,λ-90.00000°. $M_0$2.93000×10^{14}
JMA V 06 08 56 53.6–.30 36.50N 143.37E 49 3.5
¶600607851
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 06 09 40 15.0–1.0 39.27N–.09 144.67E–.09 19 3.8b 19 2-63
NIED V 06 09 40 00 39.20N 144.50E 8 3.7W ¶17202912
IDC V 06 09 40 11.7–.92 39.12N 144.92E 0 3.9,3.7
ISCJB V 06 09 40 13.0–.74 39.21N–.09 144.72E–.07 19 3.8b,3.0s
JMA V 06 09 40 16.6–.30 39.22N 144.55E 49 3.9,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ27.00000°,λ-118.00000°. NP2:ϕ_s207.00000°,δ67.00000°,λ-77.00000°. $M_0$3.80000×10^{14}
IDC Error ellipse: s-maj=28.8km s-min=18.8km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.7km az=172.9.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
JMA V 06 09 49 24.0–.10 38.32N 143.85E 3 3.5
NIED V 06 09 49 00 38.30N 143.90E 5 3.4W ¶600607884
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ24.00000°,λ-25.00000°. NP2:ϕ_s166.00000°,δ80.00000°,λ-112.00000°. $M_0$1.41000×10^{14}
ISC V 06 10 29 11.6–1.8 37.77N–.06 142.14E–.10 30 20 1-62
NIED V 06 10 29 00 37.80N 142.20E 38 3.7W ¶17202914
JMA V 06 10 29 12.6–.20 37.79N 142.18E 32–3 3.9
ISCJB V 06 10 29 14.0–1.5 37.87N–.06 142.1E–.10 30 3.5b,3.4s
IDC V 06 10 29 14.5–1.5 36.92N 142.34E 0 3.6,3.4L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ55.00000°,λ37.00000°. NP2:ϕ_s157.00000°,δ61.00000°,λ138.00000°. $M_0$3.40000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.0km az=28.6.
IDC Error ellipse: s-maj=47.8km s-min=29.3km az=127.0.
JMA V 06 11 00 52.5–.20 38.27N 143.84E 4 3.5
¶600607956
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 06 11 21 47.2–1.1 38.32N–.06 144.68E–.08 29 3.5b 35 2-87
NIED V 06 11 21 00 38.30N 144.60E 11 3.5W ¶17202917
IDC V 06 11 21 43.0–1.1 38.09N 144.93E 0 3.8,3.8L
ISCJB V 06 11 21 45.6–.74 38.31N–.05 144.71E–.06 29 3.4b,3.8L
JMA V 06 11 21 47.1–.30 38.28N 144.62E 42 4.0,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ33.00000°,λ-91.00000°. NP2:ϕ_s205.00000°,δ57.00000°,λ-89.00000°. $M_0$1.98000×10^{14}
IDC Error ellipse: s-maj=41.6km s-min=22.3km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.4km az=145.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 06 13 57 18.9–2.9 38.17N–.04 143.87E–.05 24–22 3.7b,3.3s 43 2-75
NIED V 06 13 57 00 38.30N 143.80E 5 4.0W,3.3s ¶17202927
IDC V 06 13 57 15.1–.67 38.05N 143.99E 0 4.1L,3.9
ISCJB V 06 13 57 17.3–1.6 38.14N–.03 143.85E–.05 29–13 3.7b,3.2s
JMA V 06 13 57 18.6–.20 38.27N 143.78E 24 4.3,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ33.00000°,λ-140.00000°. NP2:ϕ_s245.00000°,δ70.00000°,λ-64.00000°. $M_0$1.09000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=14.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.6km az=179.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 06 14 28 52.5–.20 38.26N 144.18E 38 3.7
NIED V 06 14 28 00 38.30N 144.20E 5 3.4W ¶600608156
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ21.00000°,λ-98.00000°. NP2:ϕ_s29.00000°,δ69.00000°,λ-87.00000°. $M_0$1.36000×10^{14}
ISC V 06 16 39 39.8–1.8 37.58N–.07 142.8E–.10 21 3.9b 15 1-58
IDC V 06 16 39 29.8–2.1 38.22N 144.34E 0 3.9,3.9b ¶17202937
JMA V 06 16 39 52.9–.20 37.82N 142.05E 33–2 3.3,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=46.8km s-min=31.2km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 06 17 16 12.2–1.6 38.02N–.08 144.1E–.10 35 16 2-58
IDC V 06 17 16 06.8–2.6 37.89N 144.37E 0 4.0,3.8b ¶17202940
ISCJB V 06 17 16 10.4–1.2 37.97N–.07 144.09E–.09 33 3.8b,3.8b
JMA V 06 17 16 10.5–.20 38.00N 144.10E 45 3.8,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=53.0km s-min=37.7km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=9.8km az=165.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 06 18 11 28.7–.48 38.13N–.04 144.29E–.03 20–2 4.9b,4.1s 774 2-158
NIED V 06 18 11 00 38.20N 144.10E 5 4.7W,4.1s ¶16497812
IDC V 06 18 11 25.4–.38 38.05N 144.29E 0 4.6,4.6
ISCJB V 06 18 11 26.2–.80 38.15N–.02 144.14E–.02 13–4 4.8b,4.1s
GCMT V 06 18 11 27.5–.40 38.21N 144.19E 12 4.8W,4.1s
NEIC V 06 18 11 27.5–1.6 38.06N 144.20E 12–9 5.0b,4.1s
JMA V 06 18 11 28.2–.20 38.17N 144.13E 42 4.8,4.1s
MOS V 06 18 11 30.8–.88 38.45N 144.16E 33 4.9b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ19.00000°,λ-94.00000°. NP2:ϕ_s215.00000°,δ71.00000°,λ-89.00000°. $M_0$1.22000×10^{16}
IDC Error ellipse: s-maj=11.3km s-min=9.5km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.1km az=169.6.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s76,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.47±.05 $M_{\theta\theta}$0.55±.06; $M_{\phi\phi}$0.91±.05; $M_{r\theta}$0.69±.23; $M_{\theta\phi}$0.64±.04; $M_{\phi r}$0.96±.23; Best double couple: NP1:ϕ_s216.00000°,δ65.00000°,λ-91.00000°. NP2:ϕ_s38.00000°,δ25.00000°,λ-89.00000°. Principal axes: T 1.8240,Plg20.0000°,Azm307.0000°; N 0.0630,Plg1.0000°,Azm216.0000° ; P -1.8920,Plg70.0000°,Azm125.0000° $M_0$1.85800×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=2.5km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.4km az=106.9.
ISC V 06 18 19 23.2–.83 38.18N–.06 144.08E–.08 35 3.8b 35 2-75
NIED V 06 18 19 00 38.20N 144.00E 11 3.8W ¶17202942
IDC V 06 18 19 18.1–.76 37.99N 144.26E 0 3.9,3.7
ISCJB V 06 18 19 21.0–.58 38.12N–.05 144.13E–.05 33 3.7b,3.7
JMA V 06 18 19 21.8–.30 38.16N 144.05E 38 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ26.00000°,λ-60.00000°. NP2:ϕ_s187.00000°,δ68.00000°,λ-104.00000°. $M_0$5.24000×10^{14}
IDC Error ellipse: s-maj=25.3km s-min=15.1km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.2km az=147.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 06 18 49 14.7–1.1 38.44N–.06 144.48E–.09 29 3.8b 38 2-69
NIED V 06 18 49 00 38.40N 144.50E 5 3.7W ¶17202944
IDC V 06 18 49 09.5–1.2 38.28N 144.74E 0 3.8,3.8
ISCJB V 06 18 49 12.1–.69 38.42N–.04 144.53E–.05 29 3.7b,3.8
JMA V 06 18 49 12.9–.20 38.42N 144.48E 41 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ23.00000°,λ-89.00000°. NP2:ϕ_s188.00000°,δ67.00000°,λ-90.00000°. $M_0$3.43000×10^{14}
IDC Error ellipse: s-maj=29.0km s-min=17.9km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.4km az=136.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 06 19 05 29.7–.20 37.94N 144.13E 0 3.5
¶600608306
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 06 19 09 10.0–1.5 37.67N–.07 144.40E–.09 35 20 3-62
ISCJB V 06 19 09 07.9–1.0 37.67N–.05 144.43E–.07 33 3.7b ¶17202946
IDC V 06 19 09 10.0–7.0 37.63N 144.53E 40–75 3.5,3.4
JMA V 06 19 09 09.4–.20 37.79N 144.09E 4 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.6km az=174.9.
IDC Error ellipse: s-maj=57.2km s-min=19.0km az=124.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 06 19 20 56.9–.86 38.11N–.06 144.10E–.07 35 3.4b 36 2-73
NIED V 06 19 20 00 38.10N 144.10E 5 3.7W ¶17202947
IDC V 06 19 20 51.9–1.0 37.99N 144.25E 0 3.7,3.6
ISCJB V 06 19 20 54.9–.65 38.10N–.04 144.11E–.05 33 3.4b,3.6
JMA V 06 19 20 54.5–.20 38.12N 144.09E 33 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ19.00000°,λ-37.00000°. NP2:ϕ_s160.00000°,δ78.00000°,λ-106.00000°. $M_0$4.37000×10^{14}
IDC Error ellipse: s-maj=27.5km s-min=18.4km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=150.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 06 19 49 25.7–.20 38.16N 144.10E 42 3.6
NIED V 06 19 49 00 38.20N 144.10E 8 3.5W ¶600608353
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ30.00000°,λ-24.00000°. NP2:ϕ_s162.00000°,δ78.00000°,λ-118.00000°. $M_0$2.24000×10^{14}
ISC V 06 20 40 28.3–3.8 38.73N–.06 143.12E–.07 8–24 3.8b 28 1-88
NIED V 06 20 40 00 38.70N 143.10E 17 3.8W ¶17202950
IDC V 06 20 40 26.7–.92 38.52N 143.51E 0 3.9,3.7
JMA V 06 20 40 29.2–.30 38.73N 143.08E 10–4 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s158.00000°,δ17.00000°,λ41.00000°. NP2:ϕ_s28.00000°,δ79.00000°,λ103.00000°. $M_0$5.08000×10^{14}
IDC Error ellipse: s-maj=28.9km s-min=18.5km az=102.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 06 20 48 18.5–1.8 37.22N–.09 144.4E–.10 35 14 3-61
ISCJB V 06 20 48 17.2–1.2 37.14N–.08 144.4E–.10 33 3.4b ¶600608408
JMA V 06 20 48 19.1–.50 37.26N 144.29E 46 3.4
IDC V 06 20 48 34.9–10 34.37N 141.96E 0 3.4,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=10.3km az=147.2.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

IDC Error ellipse: s-maj=300.4km s-min=29.9km az=53.0.
JMA V 06 21 35 58.8–.20 38.24N 144.02E 50 3.6
NIED V 06 21 35 00 38.20N 144.00E 5 3.5W ¶600608445
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ42.00000°,λ-86.00000°. NP2:ϕ_s15.00000°,δ48.00000°,λ-94.00000°. $M_0$1.80000×10^{14}
ISC V 07 01 13 15.7–.70 38.67N–.05 144.20E–.07 14 3.8b 56 2-116
IDC V 07 01 13 13.3–.77 38.54N 144.35E 0 3.9,3.9L ¶16578042
ISCJB V 07 01 13 14.3–.48 38.67N–.04 144.18E–.04 14 3.8b,3.2s
NEIC V 07 01 13 16.2–3.9 38.63N 144.30E 18–23 4.1b,3.2s
JMA V 07 01 13 17.1–.20 38.66N 144.16E 46 4.0,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=16.1km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=149.8.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=7.3km az=119.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 07 01 53 03.2–.30 40.23N 143.10E 0–3 3.7
NIED V 07 01 53 00 40.20N 143.10E 5 3.6W ¶600608629
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ48.00000°,λ-56.00000°. NP2:ϕ_s246.00000°,δ52.00000°,λ-122.00000°. $M_0$3.27000×10^{14}
ISC V 07 02 09 17.7–1.6 36.23N–.07 142.2E–.10 23 3.8b 14 1-56
IDC V 07 02 09 13.6–3.1 36.16N 142.32E 0 3.7,3.7b ¶17202966
JMA V 07 02 09 17.3–.40 36.32N 142.12E 66 2.9,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=86.8km s-min=29.5km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC V 07 04 01 02.7–.97 37.20N 144.39E 0 3.8,3.6
¶17202969
IDC Error ellipse: s-maj=38.9km s-min=21.1km az=110.0.
JMA V 07 05 49 01.9–.20 38.28N 143.89E 25 3.8
NIED V 07 05 49 00 38.30N 143.90E 5 3.6W ¶600608775
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ33.00000°,λ-100.00000°. NP2:ϕ_s206.00000°,δ57.00000°,λ-84.00000°. $M_0$2.40000×10^{14}
ISC V 07 08 20 21.8–.77 38.02N–.07 143.22E–.08 18 3.5b 23 2-76
NIED V 07 08 20 00 38.10N 143.00E 17 3.6W ¶17202978
IDC V 07 08 20 18.9–.74 37.93N 143.47E 0 3.8,3.7
ISCJB V 07 08 20 20.0–.63 37.95N–.06 143.26E–.07 18 3.6b,3.7
JMA V 07 08 20 24.4–.30 38.10N 143.01E 79 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ38.00000°,λ-98.00000°. NP2:ϕ_s215.00000°,δ52.00000°,λ-84.00000°. $M_0$2.80000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=16.2km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.4km az=163.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 07 10 47 17.5–.82 36.62N–.07 143.97E–.08 35 3.6b 25 3-76
NIED V 07 10 47 00 36.70N 143.90E 5 3.7W ¶16560924
IDC V 07 10 47 12.1–.99 36.48N 144.16E 0 3.8,3.7
ISCJB V 07 10 47 15.4–.64 36.48N–.07 143.96E–.06 33 3.6b,3.7
JMA V 07 10 47 16.5–.30 36.69N 143.90E 57 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ23.00000°,λ-84.00000°. NP2:ϕ_s193.00000°,δ67.00000°,λ-93.00000°. $M_0$3.59000×10^{14}
IDC Error ellipse: s-maj=25.6km s-min=19.5km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.5km az=168.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 07 12 05 41.2–.20 38.66N 144.13E 36 3.7
NIED V 07 12 05 00 38.70N 144.10E 5 3.5W ¶600608983
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ42.00000°,λ-106.00000°. NP2:ϕ_s28.00000°,δ50.00000°,λ-76.00000°. $M_0$2.00000×10^{14}
JMA V 07 13 32 26.0–.10 38.65N 144.15E 35 3.5
¶600609030
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 07 13 47 58.8–.72 36.79N–.06 142.03E–.06 19 3.6b 21 1-90
IDC V 07 13 47 56.4–.77 36.70N 142.39E 0 3.8,3.7 ¶17202990
NIED V 07 13 48 00 36.80N 142.10E 8 3.6W,3.7
JMA V 07 13 48 00.3–.50 36.82N 142.10E 39 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=16.9km az=115.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ30.00000°,λ-101.00000°. NP2:ϕ_s166.00000°,δ61.00000°,λ-84.00000°. $M_0$3.13000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=4.5km az=-1.0.
ISC V 07 16 59 36.3–2.1 38.21N–.06 144.17E–.06 17–13 4.3b,3.6s 144 2-83
IDC V 07 16 59 33.3–.66 38.09N 144.23E 0 4.2,4.1 ¶16501768
MOS V 07 16 59 36.4–1.2 38.25N 144.23E 33 4.3b,4.1
JMA V 07 16 59 36.9–.20 38.19N 144.07E 40 4.4,4.1
NEIC V 07 16 59 38.7–.39 38.15N 144.10E 35 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=14.0km az=125.0.
MOS Error ellipse: s-maj=9.7km s-min=6.3km az=106.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=145.0.
ISC V 07 17 11 32.0–1.8 37.10N–.09 142.5E–.10 9 13 1-61
IDC V 07 17 11 32.0–2.1 37.02N 142.52E 0 3.4,3.3 ¶17202997
JMA V 07 17 11 33.7–.20 37.09N 142.30E 6–3 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=39.3km s-min=33.8km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 07 17 13 15.8–.57 38.50N–.05 144.53E–.05 29 4.3b,3.3s 148 2-83
IDC V 07 17 13 11.0–.66 38.34N 144.63E 0 4.1,4.0L ¶16709105
ISCJB V 07 17 13 14.2–.28 38.46N–.03 144.43E–.03 29 4.2b,3.3s
JMA V 07 17 13 14.6–.20 38.45N 144.41E 41 4.6,3.3s
MOS V 07 17 13 15.6–1.1 38.70N 144.49E 33 4.3b,3.3s
NEIC V 07 17 13 16.5–1.8 38.40N 144.54E 34–13 4.4b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=14.2km az=133.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.9km az=164.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=10.1km s-min=6.7km az=95.1.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.2km az=143.0.
ISC V 07 17 32 01.4–1.2 37.47N–.05 143.70E–.05 2–7 4.4b,3.5s 162 2-88
IDC V 07 17 32 01.2–.55 37.39N 143.72E 0 4.2,4.1 ¶16501769
JMA V 07 17 32 04.3–.20 37.48N 143.53E 41 4.2,4.1
MOS V 07 17 32 04.3–1.3 37.59N 143.75E 33 4.4b,4.1
NEIC V 07 17 32 06.2–.23 37.31N 143.74E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.3km az=123.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=6.4km az=101.9.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=142.0.
ISC V 07 22 45 35.6–.51 39.54N–.05 143.45E–.05 11 4.5b,4.0s 148 1-87
ISCJB V 07 22 45 34.1–.34 39.51N–.03 143.44E–.05 11 4.5b,4.1s ¶16499109
JMA V 07 22 45 35.3–.30 39.49N 143.50E 23–5 4.3,4.1s
MOS V 07 22 45 38.1–1.2 39.60N 143.30E 33 4.5b,4.1s
IDC V 07 22 45 39.8–2.1 39.43N 143.36E 42–19 4.0,3.9
NEIC V 07 22 45 51.8–.68 39.61N 141.78E 83–7 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=32.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=105.8.
IDC Error ellipse: s-maj=17.2km s-min=13.9km az=109.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.8km az=139.0.
ISC V 07 23 18 25.1–.53 37.42N–.03 142.71E–.04 17–2 4.8b,4.0s 462 1-146
NIED V 07 23 18 00 37.40N 142.70E 8 4.5W,4.0s ¶16499111
ISCJB V 07 23 18 21.2–.86 37.38N–.02 142.65E–.02 0–5 4.9b,4.0s
IDC V 07 23 18 22.9–.51 37.42N 142.61E 0 4.7,4.6
JMA V 07 23 18 24.0–.30 37.37N 142.68E 34 4.5,4.6
NEIC V 07 23 18 24.6–1.2 37.39N 142.62E 11–7 4.8b,4.6
MOS V 07 23 18 28.1–.90 37.72N 142.51E 33 4.9b,4.6

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ29.00000°,λ-135.00000°. NP2:ϕ_s72.00000°,δ70.00000°,λ-69.00000°. $M_0$6.01000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=153.4.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=140.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=132.0. Recorded [1 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.8km s-min=4.0km az=108.2.
IDC V 08 00 26 41.0–5.2 37.91N 144.85E 0 3.2,3.2L
¶17203013
IDC Error ellipse: s-maj=137.5km s-min=35.0km az=158.0.
ISC V 08 00 45 59.3–1.4 38.4N–.10 144.2E–.10 14 3.8b 11 5-75
IDC V 08 00 46 00.3–6.9 38.05N 144.17E 33–52 3.7,3.7 ¶17203015
ISC Event type ke.
IDC Error ellipse: s-maj=27.1km s-min=19.2km az=103.0.
JMA V 08 01 33 42.1–.20 38.19N 143.86E 9 3.7
¶600609408
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 08 01 41 35.6–.40 37.92N 142.63E 18–4 3.7
¶600609415
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 08 01 54 21.5–.68 37.97N–.06 143.82E–.07 35 3.8b 46 2-88
NIED V 08 01 54 00 38.00N 143.80E 5 3.8W ¶16577234
IDC V 08 01 54 15.8–.72 37.90N 144.03E 0 3.9,3.8L
ISCJB V 08 01 54 19.3–.45 37.96N–.04 143.83E–.04 33 4.3s,3.8b
NEIC V 08 01 54 19.7–2.5 37.93N 143.99E 25–17 4.3b,3.8b
JMA V 08 01 54 20.0–.20 38.02N 143.77E 50 4.0,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ30.00000°,λ-67.00000°. NP2:ϕ_s172.00000°,δ63.00000°,λ-103.00000°. $M_0$5.06000×10^{14}
IDC Error ellipse: s-maj=20.4km s-min=16.3km az=117.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=167.1.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.3km az=124.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 08 03 02 38.2–1.3 34.85N–.07 142.99E–.10 35 3.6b 20 2-59
IDC V 08 03 02 34.8–1.7 34.94N 142.93E 0 3.5,3.5 ¶17203020
ISCJB V 08 03 02 36.7–.89 35.02N–.06 142.98E–.07 33 3.5b,3.5
JMA V 08 03 02 39.0–.50 34.91N 142.75E 79 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.5km s-min=19.7km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.4km az=42.2.
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
ISC V 08 03 10 23.4–2.0 37.9N–.10 143.9E–.20 38–9 3.5b 28 2-62
IDC V 08 03 10 17.9–1.3 37.69N 144.11E 0 3.6,3.4 ¶17203022
ISCJB V 08 03 10 22.4–1.2 37.85N–.05 143.83E–.08 49–15 3.4b,3.2s
JMA V 08 03 10 22.3–.20 37.87N 143.79E 39 3.4,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=22.9km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.9km az=34.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 08 04 21 40.3–.20 38.23N 144.52E 42 3.6
¶600609502
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 08 04 59 41.1–.39 38.23N–.05 144.23E–.04 26–2 4.6b,3.6s 327 2-148
NIED V 08 04 59 00 38.20N 144.10E 5 4.4W,3.6s ¶16501789
ISCJB V 08 04 59 40.4–.18 38.18N–.03 144.15E–.02 31 4.5b,3.7s
NEIC V 08 04 59 40.2–1.8 38.13N 144.22E 19–11 4.7b,3.7s
JMA V 08 04 59 40.6–.20 38.20N 144.14E 43 4.9,3.7s
MOS V 08 04 59 41.4–.88 38.31N 144.19E 33 4.7b,3.7s
IDC V 08 04 59 41.7–.44 38.09N 144.22E 31–2 4.3,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s21.00000°,δ18.00000°,λ-67.00000°. NP2:ϕ_s177.00000°,δ74.00000°,λ-97.00000°. $M_0$5.01000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.5km az=169.9.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.1km az=136.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.6km az=94.2.
IDC Error ellipse: s-maj=12.1km s-min=9.9km az=112.0.
ISC V 08 05 03 07.6–1.2 38.18N–.07 144.16E–.09 35 3.7b 25 2-62
IDC V 08 05 03 02.5–1.0 37.88N 144.77E 0 3.7,3.6L ¶17203026
ISCJB V 08 05 03 05.8–.83 38.16N–.05 144.17E–.06 33 3.6b,3.6L
JMA V 08 05 03 05.7–.20 38.24N 143.90E 2 3.8,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=21.2km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.8km az=26.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 08 05 37 58.3–.20 38.15N 143.64E 5 3.5
¶600609532
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 08 07 31 09.6–.63 38.10N–.05 144.23E–.06 35 4.0b 61 2-118
NIED V 08 07 31 00 38.20N 144.10E 5 4.0W ¶16631224
IDC V 08 07 31 04.3–.65 37.98N 144.43E 0 4.1,3.9
NEIC V 08 07 31 06.9–3.6 38.02N 144.35E 16–22 4.1b,3.9
ISCJB V 08 07 31 07.4–.41 38.07N–.03 144.14E–.04 33 3.9b,3.9
JMA V 08 07 31 07.9–.20 38.20N 144.14E 40 4.3,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ22.00000°,λ-77.00000°. NP2:ϕ_s197.00000°,δ68.00000°,λ-95.00000°. $M_0$1.12000×10^{15}
IDC Error ellipse: s-maj=18.7km s-min=14.0km az=130.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.8km az=124.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.8km az=39.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC V 08 07 42 02.1–2.7 37.34N 144.24E 0 3.5,3.4
¶17203033
IDC Error ellipse: s-maj=72.7km s-min=31.6km az=64.0.
JMA V 08 07 44 40.1–.30 38.22N 143.87E 8 3.8
¶600609615
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 08 07 59 33.5–.76 38.09N–.06 144.12E–.07 35 3.5b 28 2-88
IDC V 08 07 59 28.3–.76 38.07N 144.17E 0 3.7,3.6L ¶17203035
ISCJB V 08 07 59 31.2–.56 38.04N–.04 144.15E–.05 33 3.4b,3.6L
JMA V 08 07 59 32.1–.20 38.18N 144.12E 37 3.7,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=25.0km s-min=15.5km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.2km az=161.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 08 09 00 23.3–.41 38.62N–.04 143.32E–.05 15 4.5b,3.5s 187 1-117
JMA V 08 09 00 21.5–.30 38.58N 143.37E 12 4.3,3.5s ¶16501794
ISCJB V 08 09 00 22.1–.23 38.59N–.03 143.34E–.03 15 4.4b,3.3s
MOS V 08 09 00 24.4–1.1 38.64N 143.37E 33 4.5b,3.3s
NEIC V 08 09 00 27.0–.59 38.59N 143.26E 40–5 4.5b,3.3s
IDC V 08 09 00 28.6–2.1 38.49N 143.33E 60–19 4.1,4.0
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=150.9.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=102.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.3km az=122.0.
IDC Error ellipse: s-maj=15.7km s-min=12.4km az=94.0.
ISC V 08 09 27 25.7–1.0 37.92N–.07 142.53E–.08 14 3.6b 27 1-68
NIED V 08 09 27 00 37.90N 142.50E 35 3.8W ¶17203038
ISCJB V 08 09 27 23.4–.69 37.87N–.05 142.68E–.07 14 3.6b,2.6s
IDC V 08 09 27 23.1–.94 37.89N 142.68E 0 3.7,3.6
JMA V 08 09 27 25.5–.30 37.87N 142.54E 27–3 4.1,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ16.00000°,λ110.00000°. NP2:ϕ_s11.00000°,δ75.00000°,λ84.00000°. $M_0$6.31000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.6km az=22.4.
IDC Error ellipse: s-maj=25.9km s-min=16.7km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 08 11 46 50.4–.72 38.16N–.05 144.26E–.07 10 3.9b,3.2s 53 2-75

ISCJB V 08 11 46 48.2–.48 38.13N–.04 144.22E–.04 10 3.8b,3.2s ¶16577238
IDC V 08 11 46 48.3–.69 38.01N 144.58E 0 3.9,3.8
NEIC V 08 11 46 49.7–.60 38.06N 144.50E 10 4.1b,3.8
JMA V 08 11 46 51.8–.20 38.26N 144.14E 29 4.3,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=169.2.
IDC Error ellipse: s-maj=20.8km s-min=14.8km az=119.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.2km az=121.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 08 12 18 33.9–1.7 37.21N–.08 144.0E–.10 35 18 2-58
IDC V 08 12 18 27.4–2.8 37.28N 144.37E 0 3.5,3.4b ¶17203046
ISCJB V 08 12 18 33.1–1.3 37.21N–.07 143.96E–.09 33 3.3b,3.4b
JMA V 08 12 18 35.1–.20 37.25N 143.85E 50 3.6,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=70.9km s-min=35.8km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.3km az=139.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 08 12 57 32.5–1.4 37.85N–.08 143.87E–.10 35 3.8b 20 2-62
IDC V 08 12 57 26.8–2.0 37.73N 144.25E 0 3.7,3.5 ¶17203049
ISCJB V 08 12 57 29.8–.99 37.81N–.06 143.90E–.07 33 3.6b,3.5
JMA V 08 12 57 30.6–.20 37.92N 143.80E 24 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=55.1km s-min=26.8km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.5km az=37.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 08 14 46 01.9–.00 39.77N–.04 143.27E–.04 28–6 4.6b,4.2s 287 1-144
NIED V 08 14 45 00 39.80N 143.40E 17 4.5W,4.2s ¶16499310
IDC V 08 14 57.8–.51 39.74N 143.25E 0 4.4,4.3
JMA V 08 14 45 59.2–.30 39.79N 143.40E 22–5 4.5,4.3
ISCJB V 08 14 46 02.5–.50 39.79N–.03 143.14E–.04 40–4 4.5b,4.1s
MOS V 08 14 46 02.7–1.0 39.98N 143.11E 33 4.8b,4.1s
NEIC V 08 14 46 04.8–.61 39.78N 143.10E 46–5 4.6b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ17.00000°,λ59.00000°. NP2:ϕ_s29.00000°,δ76.00000°,λ99.00000°. $M_0$5.84000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=12.0km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=43.3.
MOS Error ellipse: s-maj=7.4km s-min=4.8km az=101.1.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=137.0.
ISC V 08 15 02 35.9–.68 34.40N–.05 141.77E–.07 21 3.7b 31 1-148
IDC V 08 15 02 33.6–.66 34.47N 141.83E 0 3.8,3.7 ¶17203053
ISCJB V 08 15 02 34.7–.54 34.46N–.05 141.89E–.05 21 3.6b,2.9s
JMA V 08 15 02 34.0–.40 34.44N 142.01E 37–4 3.4,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=15.3km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.9km az=39.3.
JMA Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
JMA V 08 18 00 09.6–.30 37.64N 143.83E 35 3.5
NIED V 08 18 00 00 37.60N 143.80E 5 3.3W ¶600609982
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s169.00000°,δ43.00000°,λ-117.00000°. NP2:ϕ_s24.00000°,δ53.00000°,λ-67.00000°. $M_0$9.92000×10^{13}
IDC V 08 18 29 29.1–2.0 36.97N 144.22E 0 3.6,3.6
¶17203065
IDC Error ellipse: s-maj=46.9km s-min=31.0km az=84.0.
ISC V 08 19 04 24.2–1.5 34.73N–.06 141.5E–.10 35 3.7b 13 0-65
ISCJB V 08 19 04 23.9–1.2 34.70N–.06 141.5E–.10 35 3.6b ¶600610028
JMA V 08 19 04 24.6–.40 34.71N 141.39E 33 2.7
IDC V 08 19 04 28.7–1.1 33.75N 138.06E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.6km az=159.8.
JMA Error ellipse: s-maj=1.1km s-min=3.7km az=-1.0.
IDC Error ellipse: s-maj=30.8km s-min=20.4km az=71.0.
ISC V 08 20 08 22.3–3.9 37.13N–.05 142.40E–.07 12–24 3.7b 31 1-69
NIED V 08 20 08 00 37.20N 142.40E 11 3.8W ¶17203073
IDC V 08 20 08 20.0–.85 37.09N 142.66E 0 3.8,3.8
ISCJB V 08 20 08 22.3–1.9 37.08N–.04 142.54E–.06 30–15 3.6b,3.0s
JMA V 08 20 08 22.3–.20 37.19N 142.44E 14 4.2,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ73.00000°,λ0.00000°. NP2:ϕ_s307.00000°,δ90.00000°,λ163.00000°. $M_0$5.30000×10^{14}
IDC Error ellipse: s-maj=23.5km s-min=15.8km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.2km az=160.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 08 21 43 51.5–.20 38.55N 144.46E 21 3.5
¶600610126
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 08 22 14 28.1–.40 33.67N 141.95E 11 3.5
¶600610153
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
ISC V 08 22 45 37.8–.94 38.65N–.06 144.78E–.08 35 3.8b 36 2-72
NIED V 08 22 45 00 38.50N 144.60E 5 3.9W ¶17203086
IDC V 08 22 45 32.0–1.0 38.51N 145.10E 0 4.0,3.8
ISCJB V 08 22 45 35.1–.65 38.60N–.05 144.73E–.05 35 3.7b,3.0s
JMA V 08 22 45 36.1–.20 38.50N 144.63E 44 3.9,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ27.00000°,λ-88.00000°. NP2:ϕ_s186.00000°,δ63.00000°,λ-91.00000°. $M_0$8.02000×10^{14}
IDC Error ellipse: s-maj=27.5km s-min=19.7km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=156.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 08 23 35 32.4–4.0 37.3N–.10 143.4E–.20 42–43 3.7b 23 2-61
JMA V 08 23 35 30.9–.20 37.29N 143.17E 10 3.8 ¶17203089
IDC V 08 23 35 30.4–2.7 36.62N 143.40E 0 3.7,3.5
ISCJB V 08 23 35 31.7–1.4 37.25N–.08 143.34E–.10 59–19 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 09 00 05 43.7–.79 36.52N–.05 142.06E–.07 19 3.9b 34 1-75
NIED V 09 00 05 00 36.60N 142.00E 26 3.8W ¶16577241
IDC V 09 00 05 40.9–1.4 36.57N 142.32E 0 3.9L,3.8
ISCJB V 09 00 05 42.0–.60 36.50N–.05 142.16E–.07 19 3.9b,3.8
NEIC V 09 00 05 42.5–3.4 36.54N 142.28E 10–22 4.3b,3.8
JMA V 09 00 05 45.2–.30 36.64N 142.02E 37 3.9,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ21.00000°,λ109.00000°. NP2:ϕ_s22.00000°,δ70.00000°,λ83.00000°. $M_0$6.20000×10^{14}
IDC Error ellipse: s-maj=42.2km s-min=18.1km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.2km az=152.6.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.4km az=80.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 09 02 21 47.1–.65 37.07N–.05 143.95E–.06 35 4.0b,3.2s 64 2-145
NIED V 09 02 21 00 37.10N 143.70E 5 4.0W,3.2s ¶16560935
IDC V 09 02 21 41.1–.72 36.89N 144.18E 0 4.1,3.9
NEIC V 09 02 21 42.9–.44 36.99N 144.12E 10 4.2b,3.9
ISCJB V 09 02 21 45.4–.47 37.02N–.04 143.80E–.04 33 4.0b,3.2s
JMA V 09 02 21 46.9–.30 37.06N 143.69E 36 4.3,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ24.00000°,λ-110.00000°. NP2:ϕ_s234.00000°,δ67.00000°,λ-81.00000°. $M_0$1.09000×10^{15}
IDC Error ellipse: s-maj=20.1km s-min=16.9km az=93.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.8km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=162.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 09 02 56 03.1–.80 39.47N–.05 143.33E–.08 11 3.9b 42 1-73
ISCJB V 09 02 56 01.5–.60 39.51N–.04 143.50E–.06 11 3.8b ¶16709222
IDC V 09 02 56 02.1–1.1 39.56N 143.32E 0 3.9,3.9
JMA V 09 02 56 02.8–.30 39.54N 143.45E 16 4.3,3.9
NEIC V 09 02 56 06.2–2.6 39.59N 143.30E 26–17 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.3km az=32.3.
IDC Error ellipse: s-maj=28.7km s-min=20.4km az=114.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=8.0km az=120.0.
ISC V 09 03 53 11.8–2.2 38.76N–.08 144.6E–.10 35 19 2-61
IDC V 09 03 53 02.3–2.1 38.71N 145.43E 0 3.8,3.7 ¶17203102
JMA V 09 03 53 11.5–.20 38.88N 144.20E 9 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=51.4km s-min=27.8km az=146.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 09 04 01 56.0–.20 37.08N 143.70E 59 3.5
¶600610291
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 09 04 06 51.0–.50 37.47N 142.46E 4–4 3.7
¶600610294
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA V 09 05 15 49.9–.20 37.06N 143.73E 28 3.5
NIED V 09 05 15 00 37.10N 143.70E 5 3.5W ¶600610323
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ23.00000°,λ-102.00000°. NP2:ϕ_s205.00000°,δ67.00000°,λ-85.00000°. $M_0$2.22000×10^{14}
ISC V 09 05 20 41.6–.83 38.63N–.07 144.72E–.07 29 3.6b 32 2-75
NIED V 09 05 20 00 38.50N 144.60E 5 3.6W ¶17203104
IDC V 09 05 20 37.0–.89 38.46N 144.96E 0 3.9,3.7
ISCJB V 09 05 20 39.8–.62 38.55N–.05 144.68E–.05 29 3.6b,3.4s
JMA V 09 05 20 41.6–.30 38.54N 144.57E 42 3.9,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ34.00000°,λ-76.00000°. NP2:ϕ_s195.00000°,δ57.00000°,λ-99.00000°. $M_0$3.08000×10^{14}
IDC Error ellipse: s-maj=28.1km s-min=19.3km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.5km az=173.8.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC V 09 05 37 28.6–.81 38.56N–.07 144.63E–.08 29 3.9b 34 2-75
NIED V 09 05 37 00 38.50N 144.60E 5 3.8W ¶16709232
IDC V 09 05 37 23.6–.87 38.46N 145.06E 0 4.0,3.8
ISCJB V 09 05 37 26.3–.61 38.56N–.05 144.74E–.06 29 3.8b,3.6s
JMA V 09 05 37 27.9–.30 38.49N 144.59E 40 4.1,3.6s
NEIC V 09 05 37 28.7–.60 38.48N 144.91E 35 4.1b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ32.00000°,λ-101.00000°. NP2:ϕ_s206.00000°,δ58.00000°,λ-83.00000°. $M_0$4.75000×10^{14}
IDC Error ellipse: s-maj=26.6km s-min=20.0km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.0km az=34.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=9.1km az=125.0.
ISC V 09 05 43 09.3–1.2 36.31N–.06 142.1E–.10 19 3.5b 16 1-64
IDC V 09 05 43 06.1–1.4 36.14N 142.33E 0 3.5,3.4L ¶17203105
ISCJB V 09 05 43 07.1–1.1 36.27N–.06 142.2E–.10 19 3.3b,3.4L
JMA V 09 05 43 08.7–.30 36.31N 142.10E 76 3.0,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=31.3km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=8.8km az=165.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC V 09 06 14 08.9–2.9 39.13N 143.23E 0 3.5,3.4
¶17203107
IDC Error ellipse: s-maj=73.3km s-min=30.3km az=154.0.
JMA V 09 08 01 16.4–.20 38.59N 144.60E 57 3.5
¶600610388
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC V 09 09 18 35.2–3.6 35.81N 142.35E 0 3.5,3.4b
¶603241692
IDC Error ellipse: s-maj=100.3km s-min=29.5km az=58.0.
ISC V 09 10 34 30.5–1.6 34.91N–.06 142.9E–.10 35 25 2-79
IDC V 09 10 34 27.6–3.6 34.77N 142.83E 0 3.7,3.6 ¶17203119
ISCJB V 09 10 34 30.1–1.1 34.84N–.06 142.79E–.09 33 3.7s,3.6b
JMA V 09 10 34 30.1–.60 34.92N 142.84E 64 3.4,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=69.7km s-min=34.7km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=8.1km az=163.0.
JMA Error ellipse: s-maj=2.2km s-min=5.5km az=-1.0.
JMA V 09 12 15 24.3–.30 36.92N 142.01E 0 4.2
¶17203120
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC V 09 12 22 14.7–.90 36.29N 142.77E 0 3.8,3.6L
¶17203121
IDC Error ellipse: s-maj=23.7km s-min=19.0km az=144.0.
ISC V 09 13 54 49.0–2.2 36.9N–.20 143.6E–.30 35 3.4b 6 4-57
IDC V 09 13 54 42.6–2.2 37.08N 143.89E 0 3.6,3.6 ¶17203128
ISC Event type ke.
IDC Error ellipse: s-maj=48.2km s-min=25.1km az=81.0.
ISC V 09 13 58 30.3–1.0 37.43N–.05 142.73E–.08 21 3.7b 23 1-61
NIED V 09 13 58 00 37.40N 142.50E 14 3.4W ¶17203130
IDC V 09 13 58 28.0–1.8 37.40N 142.84E 0 3.8,3.7
ISCJB V 09 13 58 29.2–.83 37.41N–.05 142.68E–.08 21 3.6b,3.7
JMA V 09 13 58 29.9–.20 37.45N 142.52E 9–3 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ48.00000°,λ138.00000°. NP2:ϕ_s248.00000°,δ60.00000°,λ51.00000°. $M_0$1.21000×10^{14}
IDC Error ellipse: s-maj=44.5km s-min=23.6km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.0km az=150.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 09 14 34 14.6–1.9 37.74N–.05 142.10E–.07 10–11 3.5b 32 1-62
NIED V 09 14 34 00 37.80N 142.00E 35 3.6W ¶17203131
IDC V 09 14 34 13.5–1.2 37.67N 142.13E 0 3.7,3.7
ISCJB V 09 14 34 15.6–1.4 37.76N–.04 142.12E–.06 27–11 3.5b,3.2s
JMA V 09 14 34 16.8–.20 37.77N 142.02E 28–3 3.9,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ40.00000°,λ-84.00000°. NP2:ϕ_s351.00000°,δ50.00000°,λ-95.00000°. $M_0$3.04000×10^{14}
IDC Error ellipse: s-maj=31.6km s-min=18.8km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.3km az=40.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 09 16 06 35.6–1.2 36.30N–.05 142.45E–.08 15 3.5b 25 1-60
ISCJB V 09 16 06 33.8–.92 36.26N–.04 142.53E–.07 15 3.4b ¶17203138
JMA V 09 16 06 34.6–.20 36.25N 142.57E 30 3.4
IDC V 09 16 06 37.3–1.1 36.91N 142.34E 0 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.3km az=18.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=29.6km s-min=21.7km az=89.0.
ISC V 09 18 38 04.7–1.4 37.62N–.08 144.6E–.10 35 3.6b 18 3-62
IDC V 09 18 37 59.9–1.8 37.46N 144.75E 0 3.9,3.8 ¶17203143
NIED V 09 18 38 00 37.70N 144.60E 11 3.5W,3.8
ISCJB V 09 18 38 01.4–.98 37.54N–.06 144.7E–.10 33 3.8b,3.8
JMA V 09 18 38 04.6–.20 37.72N 144.55E 40 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=47.5km s-min=24.4km az=77.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s352.00000°,δ26.00000°,λ-104.00000°. NP2:ϕ_s187.00000°,δ65.00000°,λ-83.00000°. $M_0$1.72000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.4km az=24.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA V 09 19 06 53.2–.20 38.24N 144.49E 36 3.6
¶600610739
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 09 20 15 55.7–.32 37.80N–.03 143.55E–.03 27–1 5.9b,5.2s 1988 2-160
NIED V 09 20 15 00 37.80N 143.60E 8 5.6W,5.2s ¶16501973
IDC V 09 20 15 51.4–.28 37.72N 143.67E 0 5.6,5.6b
ISCJB V 09 20 15 51.5–.54 37.71N–.02 143.57E–.01 8–3 5.9b,5.2s
NEIC V 09 20 15 53.6–.09 37.74N 143.54E 11 6.0b,5.8
JMA V 09 20 15 53.8–.20 37.80N 143.62E 45 5.6,5.8
GCMT V 09 20 15 53.4–.10 37.85N 143.67E 13–0 5.6W,5.8
MOS V 09 20 15 56.5–1.2 38.10N 143.48E 33 6.1b,5.2s

BJI V 09 20 15 58.1 37.89N 142.95E 30 5.6b,5.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_s220.00000°,δ56.00000°,λ-88.00000°. $M_0$2.70000×10^{17}
IDC Error ellipse: s-maj=10.1km s-min=7.8km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=166.9.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=145.0. Recorded [2 JMA] in Fukushima, Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s35.00000°,δ25.00000°,λ-90.00000°. NP2: ϕ_s215.00000°,δ65.00000°,λ-90.00000°. Principal axes: T Plg20.0000°,Azm305.0000° ; N Plg0.0000°,Azm0.0000°; P Plg70.0000°,Azm125.0000°
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s77,c153; s122,c328;Duration: 1$i_9$6 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.13±.06 $M_{\theta\theta}$1.17±.04; $M_{\phi\phi}$1.96±.04; $M_{r\theta}$0.30±.10; $M_{\theta\phi}$1.84±.03; $M_{\phi r}$0.61±.10; Best double couple: NP1:ϕ_s216.00000°,δ51.00000°,λ-94.00000°. NP2:ϕ_s42.00000°,δ39.00000°,λ-86.00000°. Principal axes: T 3.5130,Plg6.0000°,Azm309.0000°; N -0.3100,Plg3.0000°,Azm218.0000° ; P -3.2030,Plg84.0000°,Azm102.0000° $M_0$3.35800×10^{17}
MOS Error ellipse: s-maj=8.0km s-min=5.0km az=95.5.
ISC V 09 20 28 49.9–1.0 37.66N–.06 143.45E–.08 35 3.8b 29 2-62
IDC V 09 20 28 45.2–1.1 37.45N 143.44E 0 3.8,3.7 **¶17203146**
ISCJB V 09 20 28 46.9–.75 37.68N–.04 143.52E–.06 33 3.8b,3.7
JMA V 09 20 28 47.2–.30 37.88N 143.33E 6–4 3.6,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=27.9km s-min=19.5km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.9km az=26.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 09 20 31 52.3–.79 37.81N–.05 143.55E–.08 19 4.2b 49 2-76
IDC V 09 20 31 48.9–.79 37.68N 143.68E 0 4.2,4.1 **¶16709288**
ISCJB V 09 20 31 50.3–.52 37.78N–.04 143.56E–.05 19 4.1b,4.1
JMA V 09 20 31 52.5–.20 37.80N 143.50E 51 4.1,4.1
NEIC V 09 20 31 54.3–.73 37.80N 143.65E 35 4.5b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=16.5km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.4km az=35.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=10.5km az=133.0.
ISC V 09 21 04 26.5–1.9 37.09N–.09 143.7E–.10 35 3.5b 30 2-46
IDC V 09 21 04 18.8–3.3 36.92N 144.18E 0 3.7,3.6 **¶17203148**
ISCJB V 09 21 04 24.9–.98 37.08N–.05 143.66E–.07 33 3.3b,3.6
JMA V 09 21 04 26.6–.30 37.04N 143.52E 45 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=62.0km s-min=25.2km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.2km az=35.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 09 21 44 12.4–.73 37.84N–.04 143.54E–.06 19 3.8b 50 2-76
IDC V 09 21 44 10.2–.78 37.66N 143.84E 0 3.9,3.8 **¶17203151**
ISCJB V 09 21 44 11.8–.55 37.85N–.04 143.60E–.04 19 3.7b,3.8
JMA V 09 21 44 13.8–.20 37.86N 143.55E 38 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=15.6km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.9km az=138.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 09 23 17 01.0–.49 37.76N–.05 143.54E–.06 25–2 4.2b 79 2-145
NIED V 09 23 16 00 37.80N 143.60E 5 4.1W **¶16560945**
ISCJB V 09 23 16 58.7–1.6 37.73N–.04 143.52E–.04 23–11 4.2b,3.3s
NEIC V 09 23 16 59.8–3.6 37.66N 143.65E 19–22 4.6b,3.3s
JMA V 09 23 16 59.1–.20 37.77N 143.57E 45 4.0,3.3s
IDC V 09 23 17 02.1–.48 37.64N 143.65E 35–3 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ26.00000°,λ-140.00000°. NP2:ϕ_s206.00000°,δ73.00000°,λ-69.00000°. $M_0$1.35000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=138.7.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.7km az=144.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=11.2km az=138.0.
JMA V 09 23 56 36.2–.20 37.78N 142.85E 31–5 3.6
¶600610874
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC V 10 00 55 49.6–2.0 35.26N–.05 142.63E–.05 2–12 3.6b 35 1-90
NIED V 10 00 55 00 35.40N 142.70E 5 3.7W **¶17203159**
IDC V 10 00 55 49.5–.84 35.14N 142.73E 0 3.9,3.7
ISCJB V 10 00 55 51.6–2.2 35.32N–.05 142.60E–.05 17–17 4.4s,3.5b
JMA V 10 00 55 52.1–.40 35.36N 142.70E 51 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ25.00000°,λ-101.00000°. NP2:ϕ_s216.00000°,δ65.00000°,λ-85.00000°. $M_0$4.47000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=18.1km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.2km az=153.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 10 02 18 36.8–.57 36.31N–.05 142.73E–.06 35 3.9b 59 2-146
IDC V 10 02 18 32.4–.70 36.25N 142.73E 0 4.1L,4.0 **¶16577246**
NEIC V 10 02 18 33.9–.49 36.33N 142.75E 10 4.0b,4.0
ISCJB V 10 02 18 36.1–.48 36.41N–.04 142.57E–.04 33 3.9b,3.8s
JMA V 10 02 18 36.0–.20 36.39N 142.54E 74 3.5,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=16.6km az=93.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=9.2km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 02 19 25.0–.52 36.15N–.05 142.71E–.06 18 4.2b 76 2-146
NIED V 10 02 19 00 36.40N 142.50E 26 4.1W **¶17203164**
IDC V 10 02 19 22.2–.64 36.19N 142.78E 0 4.2,4.1
ISCJB V 10 02 19 23.4–.33 36.12N–.05 142.66E–.04 18 4.2b,3.5s
NEIC V 10 02 19 24.0–.37 36.22N 142.77E 10 4.5b,3.5s
JMA V 10 02 19 26.5–.30 36.38N 142.49E 82 3.7,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ18.00000°,λ131.00000°. NP2:ϕ_s210.00000°,δ76.00000°,λ78.00000°. $M_0$1.43000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=15.5km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.9km az=171.2.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.6km az=172.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 10 02 33 06.6–.30 37.19N 143.65E 25 3.8
¶600610935
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 10 03 29 05.2–.86 37.77N–.06 143.60E–.08 19 3.6b 28 2-76
NIED V 10 03 29 00 37.80N 143.60E 5 3.6W **¶17203166**
IDC V 10 03 29 02.1–.79 37.66N 143.81E 0 3.8,3.7L
ISCJB V 10 03 29 03.0–.60 37.77N–.04 143.60E–.05 19 3.6b,3.7L
JMA V 10 03 29 05.0–.40 37.79N 143.57E 52 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s354.00000°,δ24.00000°,λ-100.00000°. NP2:ϕ_s185.00000°,δ66.00000°,λ-86.00000°. $M_0$3.05000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=16.1km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.4km az=142.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 10 04 11 57.0–1.0 37.65N–.08 143.42E–.08 35 3.6b 24 2-62
NIED V 10 04 11 00 37.80N 143.50E 32 3.8W **¶17203170**
IDC V 10 04 11 51.4–.95 37.46N 143.85E 0 3.8,3.7
JMA V 10 04 11 53.3–.30 37.76N 143.50E 36 3.9,3.7
ISCJB V 10 04 11 54.1–.74 37.66N–.06 143.48E–.06 33 3.7b,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ78.00000°,λ170.00000°. NP2:ϕ_s60.00000°,δ80.00000°,λ12.00000°. $M_0$4.79000×10^{14}
ISCJB Event type ke.
ISC V 10 04 19 06.8–1.7 37.42N–.06 143.6E–.10 35 3.4b 30 2-61
NIED V 10 04 19 00 37.40N 143.50E 35 3.7W **¶17203171**
ISCJB V 10 04 19 06.2–1.0 37.44N–.05 143.52E–.07 33 3.6b
JMA V 10 04 19 06.4–.20 37.42N 143.49E 45 3.8
IDC V 10 04 19 07.3–1.4 38.64N 142.80E 0 3.7,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ78.00000°,λ8.00000°. NP2: ϕ_s327.00000°,δ82.00000°,λ168.00000°. $M_0$3.63000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.1km az=24.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=56.1km s-min=24.2km az=128.0.
ISC V 10 04 48 06.4–2.5 36.22N–.09 142.50E–.07 7–17 3.6b 24 1-146
NIED V 10 04 48 00 36.30N 142.40E 11 3.6W **¶17203174**
IDC V 10 04 48 02.3–.77 35.53N 142.67E 0 3.8,3.6L
JMA V 10 04 48 09.4–.20 36.30N 142.38E 20 3.5,3.6L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ44.00000°,λ-108.00000°. NP2:ϕ_s32.00000°,δ48.00000°,λ-74.00000°. $M_0$3.00000×10^{14}
IDC Error ellipse: s-maj=21.8km s-min=21.1km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 05 32 41.8–.75 37.81N–.06 143.47E–.06 19 3.8b 32 2-88
NIED V 10 05 32 00 37.80N 143.60E 5 3.9W **¶17203179**
IDC V 10 05 32 38.6–.76 37.64N 143.85E 0 4.1L,3.9
ISCJB V 10 05 32 40.3–.56 37.82N–.05 143.61E–.05 19 3.7b,3.9
JMA V 10 05 32 41.5–.20 37.80N 143.58E 44 3.7,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s27.00000°,δ21.00000°,λ-61.00000°. NP2:ϕ_s177.00000°,δ72.00000°,λ-100.00000°. $M_0$7.65000×10^{14}
IDC Error ellipse: s-maj=19.2km s-min=17.4km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.5km az=167.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 07 16 13.4–.37 37.28N–.03 143.75E–.03 31–2 5.4b,4.8s 1501 2-160
NIED V 10 07 16 00 37.40N 143.50E 8 5.0W,4.8s **¶600611041**
IDC V 10 07 16 08.6–.36 37.25N 143.78E 0 5.3,5.3
JMA V 10 07 16 12.8–.20 37.31N 143.58E 51 5.0,5.3
BJI V 10 07 16 12.7 37.47N 143.46E 22 5.1b,5.0b
ISCJB V 10 07 16 13.5–.08 37.26N–.02 143.68E–.01 44 5.3b,4.7s
MOS V 10 07 16 13.1–.84 37.45N 143.69E 33 5.7b,4.7s
NEIC V 10 07 16 14.2–.38 37.26N 143.71E 35–3 5.4b,4.7s
GCMT V 10 07 16 14.2–.20 37.37N 143.75E 16–0 5.2W,4.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ42.00000°,λ-96.00000°. NP2:ϕ_s220.00000°,δ48.00000°,λ-85.00000°. $M_0$3.59000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.1km az=86.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.5km az=166.2.
MOS Error ellipse: s-maj=6.0km s-min=3.9km az=112.1.
NEIC Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=143.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki, Miyagi and Tochigi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c115; s117,c191; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.68±.16 $M_{\theta\theta}$3.00±.10; $M_{\phi\phi}$3.67±.11; $M_{r\theta}$1.35±.28; $M_{\theta\phi}$1.87±.07; $M_{\phi r}$2.33±.32; Best double couple: NP1:ϕ_s216.00000°,δ57.00000°,λ-93.00000°. NP2:ϕ_s42.00000°,δ33.00000°,λ-85.00000°. Principal axes: T 5.8010,Plg12.0000°,Azm309.0000°; N 1.4560,Plg3.0000°,Azm218.0000° ; P -7.2670,Plg78.0000°,Azm116.0000° $M_0$6.53400×10^{16}
ISC V 10 07 27 39.4–.79 37.25N–.05 143.73E–.07 35 3.8b 30 2-89
IDC V 10 07 27 35.1–.88 37.20N 143.83E 0 3.9,3.9L **¶600611050**
ISCJB V 10 07 27 38.6–.67 37.32N–.05 143.67E–.05 33 3.8b,3.9L
JMA V 10 07 27 39.9–.20 37.31N 143.57E 48 4.1,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=26.6km s-min=19.1km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.5km az=1.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 08 30 31.3–.37 37.86N–.03 143.65E–.03 30–2 5.3b,4.8s 1305 2-159
NIED V 10 08 30 00 37.80N 143.60E 8 5.1W,4.8s **¶16502540**
IDC V 10 08 30 26.1–.44 37.73N 143.71E 0 5.1,5.1
ISCJB V 10 08 30 27.2–.74 37.83N–.02 143.59E–.02 12–4 5.2b,4.8s
JMA V 10 08 30 29.2–.20 37.85N 143.60E 47 5.1,4.8s
NEIC V 10 08 30 30.9–.91 37.80N 143.56E 25–6 5.4b,4.8s
GCMT V 10 08 30 30.9–.20 37.91N 143.61E 15–0 5.3W,4.8s
MOS V 10 08 30 31.5–.90 38.06N 143.54E 33 5.5b,4.4s
BJI V 10 08 30 33.9 38.04N 142.86E 25 5.1b,5.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ32.00000°,λ-91.00000°. NP2:ϕ_s203.00000°,δ58.00000°,λ-89.00000°. $M_0$5.78000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=10.8km az=136.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=169.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.0km az=142.0. Recorded [1 JMA] in Fukushima, Ibaraki, Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c82; s62,c124; Duration: 1$i_9$0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.03 $M_{\theta\theta}$0.13±.02; $M_{\phi\phi}$0.58±.02; $M_{r\theta}$0.27±.07; $M_{\theta\phi}$0.39±.01; $M_{\phi r}$0.48±.06; Best double couple: NP1:ϕ_s210.00000°,δ63.00000°,λ-90.00000°. NP2:ϕ_s31.00000°,δ27.00000°,λ-89.00000°. Principal axes: T 0.9890,Plg18.0000°,Azm300.0000°; N -0.0950,Plg0.0000°,Azm210.0000° ; P -0.8940,Plg72.0000°,Azm119.0000° $M_0$0.94200×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.
JMA V 10 08 35 10.0–.20 37.89N 143.50E 32 3.5
¶600611108
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 08 54 38.4–.57 37.74N–.06 143.45E–.06 35 5.1s,4.7b 156 2-126
NIED V 10 08 54 00 37.80N 143.50E 8 4.5W,4.7b **¶600611121**
IDC V 10 08 54 32.6–1.0 37.69N 143.70E 0 4.1,4.1
JMA V 10 08 54 34.9–.30 37.75N 143.47E 29 4.5,4.1
MOS V 10 08 54 46.4–2.0 38.60N 142.28E 31 4.7b,4.1
BJI V 10 08 54 47.4 38.04N 142.28E 54 5.4s,5.3
NEIC V 10 08 54 50.0–.78 38.19N 142.14E 59–8 5.0b,5.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ29.00000°,λ-139.00000°. NP2:ϕ_s222.00000°,δ71.00000°,λ-67.00000°. $M_0$6.16000×10^{15}
IDC Error ellipse: s-maj=25.2km s-min=15.0km az=157.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=9.4km s-min=7.5km az=105.3.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=162.0.
ISC V 10 09 49 23.7–1.1 37.77N–.08 143.53E–.09 19 3.6b 20 2-76
IDC V 10 09 49 20.2–1.2 37.56N 143.81E 0 3.8,3.7L **¶17203216**
ISCJB V 10 09 49 21.6–.88 37.76N–.06 143.54E–.07 19 3.6b,3.7L
JMA V 10 09 49 22.7–.20 37.78N 143.53E 37 3.3,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=23.5km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.3km az=43.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 10 09 37.5–1.6 37.78N–.06 143.6E–.10 19 23 2-58
IDC V 10 10 09 34.5–2.0 37.61N 143.79E 0 3.7,3.6 **¶17203228**
ISCJB V 10 10 09 36.4–1.1 37.74N–.05 143.50E–.09 19 3.9b,3.6
JMA V 10 10 09 37.8–.30 37.75N 143.48E 40 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=29.8km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.1km az=15.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 10 10 11 32.5–1.1 37.80N–.06 143.52E–.10 19 3.7b 41 2-58
IDC V 10 10 11 29.5–1.2 37.68N 143.73E 0 3.9,3.8 **¶16709398**
ISCJB V 10 10 11 30.8–.64 37.76N–.04 143.55E–.06 19 3.9b,3.8
NEIC V 10 10 11 31.4–.89 37.79N 143.61E 10 4.6b,3.8
JMA V 10 10 11 31.8–.20 37.84N 143.61E 40 3.5,3.8
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=20.3km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=18.3.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.6km az=119.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 10 10 22 45.7–.72 37.70N–.06 143.46E–.07 35 4.0b 43 2-79
IDC V 10 10 22 40.4–.81 37.61N 143.71E 0 4.0,4.0 **¶16709399**

JMA	V	10 10 22 42.6–.30	37.84N	143.50E	22	3.9,4.0			
ISCJB	V	10 10 22 43.9–.47	37.71N–.04	143.47E–.05	33	4.0b,4.0			
NEIC	V	10 10 22 45.9–.49	37.65N	143.62E	35	4.1b,4.0			
ISC	Event type se.								
IDC	Error ellipse: s-maj=20.9km s-min=15.9km az=131.0.								
JMA	Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.								
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=5.1km az=140.3.								
NEIC	Event type se. Error ellipse: s-maj=12.0km s-min=7.7km az=134.0.								
ISC	**V**	**10 10 24 17.1–.54**	**36.07N–.04**	**142.07E–.06**	**23**	**4.3b**	**58**	**1-150**	
IDC	V	10 10 24 14.9–.80	36.13N	141.82E	0	4.2L,4.1			**¶16560952**
ISCJB	V	10 10 24 15.4–.42	36.14N–.03	142.08E–.05	23	4.2b,4.1			
JMA	V	10 10 24 17.5–.20	36.21N	141.89E	59	4.3,4.1			
NEIC	V	10 10 24 19.5–.44	36.12N	141.94E	35	4.7b,4.1			
ISC	Event type se.								
IDC	Error ellipse: s-maj=20.9km s-min=17.1km az=120.0.								
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=25.2.								
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=9.8km s-min=7.4km az=116.0.								
ISC	**V**	**10 10 26 10.6–1.1**	**37.1N–.10**	**142.32E–.06**	**9**	**3.6b**	**17**	**1-63**	
ISCJB	V	10 10 26 08.7–.93	37.0N–.10	142.47E–.06	9	3.8b			**¶600611162**
IDC	V	10 10 26 08.7–1.2	36.85N	142.81E	0	3.8,3.7b			
JMA	V	10 10 26 09.9–.40	37.12N	142.40E	14	4.3,3.7b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=14.7km s-min=7.3km az=3.0.								
IDC	Error ellipse: s-maj=27.8km s-min=23.5km az=157.0.								
JMA	Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.								
ISC	**V**	**10 10 58 05.7–.66**	**37.71N–.05**	**143.47E–.07**	**35**	**3.8b**	**54**	**2-80**	
IDC	V	10 10 57 59.8–.76	37.53N	143.67E	0	3.9,3.8			**¶16560957**
JMA	V	10 10 58 01.5–.30	37.83N	143.44E	16	3.6,3.8			
NEIC	V	10 10 58 01.6–.45	37.63N	143.67E	10	4.4b,3.8			
ISCJB	V	10 10 58 03.4–.43	37.71N–.03	143.44E–.04	33	3.9b,3.8			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**V**	**10 10 58 15.2–.66**	**37.72N–.07**	**143.58E–.09**	**35**	**4.2b**	**43**	**4-80**	
IDC	V	10 10 58 10.0–.92	37.71N	143.64E	0	5.1,5.1s			**¶16709412**
NEIC	V	10 10 58 11.6–.33	37.68N	143.64E	10	4.2b,5.1s			
ISCJB	V	10 10 58 12.9–.42	37.69N–.05	143.54E–.06	33	5.1s,4.2b			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**V**	**10 11 04 02.9–.83**	**36.12N–.06**	**142.04E–.09**	**23**	**3.8b**	**29**	**1-64**	
IDC	V	10 11 04 00.2–.91	36.23N	141.99E	0	3.9L,3.8			**¶17203240**
ISCJB	V	10 11 04 01.3–.67	36.14N–.04	142.01E–.07	23	3.7b,3.8			
JMA	V	10 11 04 04.6–.30	36.24N	141.78E	47	3.7,3.8			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=25.2km s-min=16.9km az=90.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=6.4km az=178.4.								
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
ISC	**V**	**10 11 12 59.5–1.5**	**37.71N–.07**	**142.11E–.10**	**24**	**3.8b**	**17**	**1-58**	
IDC	V	10 11 12 54.1–2.6	37.80N	142.68E	0	4.6,4.6s			**¶17203241**
ISCJB	V	10 11 12 57.9–1.1	37.76N–.06	142.26E–.08	24	3.6b,4.6s			
JMA	V	10 11 12 58.5–.20	37.72N	142.17E	20–4	3.8,4.6s			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=65.5km s-min=32.3km az=66.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=8.8km az=5.4.								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
ISC	**V**	**10 11 29 04.6–.51**	**37.53N–.05**	**143.71E–.06**	**35**	**4.2b**	**59**	**3-88**	
IDC	V	10 11 29 00.1–.64	37.56N	143.77E	0	4.2,4.1			**¶16560958**
NEIC	V	10 11 29 01.3–.35	37.54N	143.80E	10	4.4b,4.1			
ISCJB	V	10 11 29 02.7–.37	37.47N–.05	143.68E–.06	33	4.3b,4.1			
JMA	V	10 11 29 04.7–.80	37.68N	143.41E	38	3.9,4.1			
ISC	Event type se.								
IDC	Error ellipse: s-maj=17.0km s-min=13.6km az=132.0.								
NEIC	Event type se. Error ellipse: s-maj=9.2km s-min=6.2km az=135.0.								
ISCJB	Event type se. Error ellipse: s-maj=7.9km s-min=5.1km az=139.3.								
JMA	Error ellipse: s-maj=3.3km s-min=6.2km az=-1.0.								
ISC	**V**	**10 12 38 42.2–1.2**	**36.42N–.07**	**142.61E–.08**	**15**	**3.5b**	**22**	**2-64**	
ISCJB	V	10 12 38 39.9–.84	36.32N–.07	142.73E–.07	15	3.4b			**¶17203258**
IDC	V	10 12 38 39.8–1.2	36.17N	142.77E	0	3.5,3.4			
JMA	V	10 12 38 40.9–.40	36.36N	142.75E	33	3.5,3.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=8.6km az=3.6.								
IDC	Error ellipse: s-maj=34.1km s-min=28.7km az=100.0.								
JMA	Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.								
ISC	**V**	**10 13 41 36.5–.97**	**37.75N–.06**	**143.60E–.08**	**19**	**3.4b**	**23**	**2-72**	
IDC	V	10 13 41 33.8–1.1	37.63N	143.85E	0	4.1s,4.1			**¶17203270**
ISCJB	V	10 13 41 35.0–.76	37.78N–.06	143.58E–.06	19	4.1s,3.5b			
JMA	V	10 13 41 37.3–.20	37.88N	143.44E	20	3.2,3.5b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=26.5km s-min=21.2km az=105.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.3km s-min=6.6km az=2.9.								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
ISC	**V**	**10 16 12 36.3–.43**	**36.69N–.04**	**142.06E–.05**	**26–1**	**4.6b,4.0s**	**207**	**1-146**	
NIED	V	10 16 12 00	36.70N	142.10E	20	4.4W,4.0s			**¶16505611**
ISCJB	V	10 16 12 34.8–1.2	36.66N–.03	142.10E–.05	30–8	4.5b,4.0s			
JMA	V	10 16 12 34.7–.30	36.66N	142.08E	31–5	4.3,4.0s			
NEIC	V	10 16 12 37.9–.41	36.72N	142.02E	35	4.7b,4.0s			
IDC	V	10 16 12 37.8–.50	36.62N	142.01E	36–4	4.2,4.1			
MOS	V	10 16 12 38.4–.99	37.11N	141.94E	37	4.8b,4.1			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_P207.00000°,δ11.00000°,λ96.00000°. NP2:ϕ_S21.00000°,δ79.00000°,λ89.00000°. $M_0$5.17000×10^{15}								
ISCJB	Event type se. Error ellipse: s-maj=6.6km s-min=5.1km az=33.0.								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=131.0.								
IDC	Error ellipse: s-maj=13.5km s-min=10.6km az=107.0.								
MOS	Error ellipse: s-maj=8.1km s-min=5.3km az=116.4.								
IDC	**V**	**10 20 47 35.2–2.1**	**34.64N**	**142.72E**	**0**	**3.7,3.7**			**¶17203320**
IDC	Error ellipse: s-maj=42.1km s-min=25.1km az=63.0.								
ISC	**V**	**10 20 51 10.9–3.5**	**37.71N–.06**	**143.34E–.08**	**9–24**	**3.6b**	**19**	**2-58**	
NIED	V	10 20 51 00	37.80N	143.50E	5	3.6W			**¶17203321**
IDC	V	10 20 51 09.4–2.2	37.34N	143.62E	0	3.9,3.9			
JMA	V	10 20 51 10.2–.30	37.83N	143.48E	27	3.5,3.9			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S335.00000°,δ21.00000°,λ-130.00000°. NP2:ϕ_S196.00000°,δ74.00000°,λ-77.00000°. $M_0$2.94000×10^{14}								
IDC	Error ellipse: s-maj=40.8km s-min=28.1km az=85.0.								
JMA	Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.								
JMA	**V**	**10 23 22 02.9–.20**	**37.84N**	**143.99E**	**8**	**3.7**			**¶600611520**
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
ISC	**V**	**10 23 25 35.0–.84**	**38.48N–.04**	**144.75E–.05**	**30–6**	**4.5b,3.5s**	**250**	**2-87**	
NIED	V	10 23 25 00	38.50N	144.60E	5	4.2W,3.5s			**¶16560965**
IDC	V	10 23 25 30.5–.54	38.41N	144.85E	0	4.5,4.4			
ISCJB	V	10 23 25 32.6–.97	38.47N–.03	144.64E–.03	15–6	4.5b,3.5s			
JMA	V	10 23 25 34.4–.20	38.46N	144.61E	52	5.0,3.5s			
NEIC	V	10 23 25 35.2–.68	38.43N	144.71E	27–5	4.6b,3.5s			
MOS	V	10 23 25 35.7–1.0	38.75N	144.65E	33	4.8b,3.5s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S22.00000°,δ43.00000°,λ-78.00000°. NP2:ϕ_S186.00000°,δ49.00000°,λ-101.00000°. $M_0$1.97000×10^{15}								
IDC	Error ellipse: s-maj=15.3km s-min=12.4km az=121.0.								
ISCJB	Event type fe. Error ellipse: s-maj=4.9km s-min=3.1km az=159.8.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.								
NEIC	Event type fe. Error ellipse: s-maj=5.7km s-min=4.1km az=154.0. Recorded [1 JMA] in Miyagi.								
MOS	Error ellipse: s-maj=8.9km s-min=5.5km az=106.9.								
JMA	**V**	**11 01 12 51.7–.30**	**38.03N**	**144.45E**	**40**	**3.7**			
NIED	V	11 01 12 00	38.00N	144.40E	5	3.7W			**¶600611549**
JMA	Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S30.00000°,δ25.00000°,λ-105.00000°. NP2:ϕ_S226.00000°,δ66.00000°,λ-83.00000°. $M_0$3.80000×10^{14}								
ISC	**V**	**11 01 20 07.3–.31**	**37.86N–.03**	**143.56E–.03**	**28–1**	**5.5b,4.8s**	**1453**	**2-160**	
NIED	V	11 01 20 00	37.90N	143.50E	8	5.2W,4.8s			**¶16503610**
ISCJB	V	11 01 20 02.9–.69	37.84N–.02	143.60E–.01	8–4	5.4b,4.7s			
JMA	V	11 01 20 05.3–.20	37.86N	143.59E	43	5.2,4.7s			
NEIC	V	11 01 20 05.6–1.4	37.81N	143.56E	15–8	5.6b,4.7s			
GCMT	V	11 01 20 05.6–.20	37.88N	143.68E	13–0	5.2W,4.7s			
BJI	V	11 01 20 07.2	38.02N	143.13E	18	5.2b,5.1b			
MOS	V	11 01 20 07.2–.95	37.97N	143.51E	33	5.7b,4.8s			
IDC	V	11 01 20 08.8–.41	37.79N	143.59E	41–3	5.1,5.0			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S44.00000°,δ31.00000°,λ-78.00000°. NP2:ϕ_S210.00000°,δ59.00000°,λ-97.00000°. $M_0$6.42000×10^{16}								
ISCJB	Event type fe. Error ellipse: s-maj=3.3km s-min=1.9km az=168.5.								
JMA	Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
NEIC	Event type fe. Error ellipse: s-maj=3.7km s-min=2.2km az=140.0. Recorded [1 JMA] in Fukushima, Gumma, Ibaraki, Iwate and Miyagi.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s61,c102; s94,c201;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.64±.02 $M_{\theta\theta}$0.10±.01; $M_{\phi\phi}$0.54±.01; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$0.50±.01; $M_{\phi r}$0.44±.04; Best double couple: NP1:ϕ_S199.00000°,δ61.00000°,λ-107.00000°. NP2:ϕ_S51.00000°,δ33.00000°,λ-62.00000°. Principal axes: T 0.9760,Plg15.0000°,Azm301.0000°; N -0.1810,Plg15.0000°,Azm207.0000°; P -0.7960,Plg69.0000°,Azm73.0000° $M_0$0.88600×10^{17}								
MOS	Error ellipse: s-maj=5.9km s-min=4.0km az=105.8.								
IDC	Error ellipse: s-maj=11.1km s-min=8.2km az=99.0.								
JMA	**V**	**11 04 10 13.1–.30**	**36.83N**	**143.72E**	**51**	**3.8**			**¶600611594**
JMA	Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.								
JMA	**V**	**11 06 12 24.5–.30**	**38.02N**	**144.12E**	**10**	**3.6**			**¶600611633**
JMA	Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.								
JMA	**V**	**11 06 14 38.1–.20**	**38.22N**	**144.11E**	**36**	**3.5**			
NIED	V	11 06 14 00	38.20N	144.10E	5	3.6W			**¶600611635**
JMA	Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S335.00000°,δ27.00000°,λ-96.00000°. NP2:ϕ_S163.00000°,δ63.00000°,λ-87.00000°. $M_0$2.50000×10^{14}								
ISC	**V**	**11 06 47 12.0–1.3**	**37.38N–.08**	**142.6E–.10**	**21**	**3.9b**	**16**	**1-61**	
JMA	V	11 06 47 08.5–.30	37.35N	142.42E	0	4.1			**¶17203361**
ISCJB	V	11 06 47 10.1–.89	37.27N–.06	142.52E–.09	21	3.8b			
IDC	V	11 06 47 17.2–3.1	37.20N	142.31E	62–28	3.7,3.6			
ISC	Event type ke.								
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=10.3km s-min=9.3km az=170.8.								
IDC	Error ellipse: s-maj=33.4km s-min=16.6km az=104.0.								
ISC	**V**	**11 06 57 31.8–.59**	**36.29N–.06**	**142.64E–.06**	**15**	**4.0b**	**47**	**2-146**	
NIED	V	11 06 57 00	36.30N	142.50E	38	3.9W			**¶16709560**
ISCJB	V	11 06 57 30.5–.51	36.25N–.05	142.66E–.06	15	4.1b,3.8s			
IDC	V	11 06 57 30.4–1.0	36.32N	142.64E	0	4.1,4.0			
JMA	V	11 06 57 33.9–.30	36.33N	142.53E	68	4.0,4.0			
NEIC	V	11 06 57 34.7–.57	36.20N	142.62E	35	4.1b,4.0			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S222.00000°,δ43.00000°,λ100.00000°. NP2:ϕ_S29.00000°,δ48.00000°,λ81.00000°. $M_0$9.26000×10^{14}								
ISCJB	Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=147.6.								
IDC	Error ellipse: s-maj=28.2km s-min=16.5km az=167.0.								
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=12.0km s-min=11.0km az=171.0.								
JMA	**V**	**11 07 08 07.9–.40**	**39.39N**	**143.11E**	**6–4**	**3.6**			
NIED	V	11 07 08 00	39.40N	143.10E	5	3.6W			**¶600611659**
JMA	Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S22.00000°,δ38.00000°,λ-76.00000°. NP2:ϕ_S184.00000°,δ53.00000°,λ-101.00000°. $M_0$2.80000×10^{14}								
ISC	**V**	**11 07 26 56.9–.88**	**36.29N–.06**	**142.63E–.08**	**18**	**3.8b**	**24**	**2-146**	
NIED	V	11 07 26 00	36.30N	142.50E	29	3.6W			**¶17203365**
IDC	V	11 07 26 55.1–.92	36.14N	142.65E	0	3.9,3.9			
ISCJB	V	11 07 26 56.1–.82	36.24N–.06	142.61E–.08	18	3.8s,3.8b			
JMA	V	11 07 26 59.2–.30	36.32N	142.48E	68	3.5,3.8b			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S63.00000°,δ11.00000°,λ-58.00000°. NP2:ϕ_S211.00000°,δ81.00000°,λ-96.00000°. $M_0$2.39000×10^{14}								
IDC	Error ellipse: s-maj=25.4km s-min=20.1km az=74.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=8.0km az=155.1.								
JMA	Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.								
ISC	**V**	**11 07 33 04.7–1.3**	**37.84N–.06**	**143.61E–.09**	**35**	**3.5b**	**26**	**2-62**	
IDC	V	11 07 32 60.0–2.4	37.53N	143.84E	0	3.6,3.5b			**¶17203366**
ISCJB	V	11 07 33 03.1–.92	37.77N–.05	143.57E–.07	33	3.5b,3.5b			
JMA	V	11 07 33 03.5–.20	37.93N	143.44E	17	3.4,3.5b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=70.1km s-min=26.1km az=63.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.4km s-min=7.2km az=24.6.								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
ISC	**V**	**11 08 43 51.0–1.9**	**37.04N–.08**	**143.7E–.10**	**35**	**3.7b**	**16**	**2-83**	
JMA	V	11 08 43 49.9–.50	37.01N	143.68E	40	3.4			**¶17203371**
ISCJB	V	11 08 43 51.6–1.7	37.05N–.07	143.6E–.10	33	4.1s,3.6b			
IDC	V	11 08 43 51.1–2.6	36.27N	143.60E	0	4.2,4.2s			
ISC	Event type ke.								
JMA	Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=15.3km s-min=10.0km az=13.2.								
IDC	Error ellipse: s-maj=74.5km s-min=29.4km az=65.0.								
ISC	**V**	**11 10 57 24.9–.73**	**34.78N–.08**	**142.77E–.08**	**35**	**3.8b**	**31**	**1-88**	
NIED	V	11 10 57 00	34.90N	142.80E	5	3.8W			**¶16560029**
JMA	V	11 10 57 21.6–.90	34.90N	142.76E	8	3.7			
ISCJB	V	11 10 57 23.0–.55	34.78N–.06	142.78E–.05	33	3.9s,3.8b			
IDC	V	11 10 57 25.1–6.0	34.89N	142.76E	33–46	3.8,3.8			
ISC	Event type ke.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S28.00000°,δ27.00000°,λ-47.00000°. NP2:ϕ_S162.00000°,δ70.00000°,λ-109.00000°. $M_0$5.82000×10^{14}								
JMA	Error ellipse: s-maj=4.4km s-min=7.3km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.3km s-min=5.8km az=176.7.								
IDC	Error ellipse: s-maj=23.0km s-min=16.7km az=88.0.								
ISC	**V**	**11 12 40 25.3–.65**	**37.93N–.04**	**142.54E–.06**	**14**	**3.9b**	**43**	**1-68**	
NIED	V	11 12 40 00	38.00N	142.50E	20	3.9W			**¶16633263**
JMA	V	11 12 40 27.6–.30	38.03N	142.45E	20–3	3.9			
NEIC	V	11 12 40 28.7–.76	37.92N	142.79E	40–7	4.5b			
IDC	V	11 12 40 29.6–2.2	37.95N	142.60E	44–22	3.8,3.8L			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S238.00000°,δ30.00000°,λ163.00000°. NP2:ϕ_S343.00000°,δ81.00000°,λ61.00000°. $M_0$7.87000×10^{14}								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=10.3km s-min=6.4km az=104.0.								
IDC	Error ellipse: s-maj=27.3km s-min=15.1km az=98.0.								
ISC	**V**	**11 14 17 09.8–.51**	**36.32N–.04**	**142.62E–.04**	**25–2**	**4.7b,4.2s**	**338**	**2-149**	
NIED	V	11 14 17 00	36.30N	142.60E	5	4.4W,4.2s			**¶16505627**
IDC	V	11 14 17 05.8–.49	36.25N	142.70E	0	4.5,4.4			
ISCJB	V	11 14 17 06.4–.83	36.37N–.02	142.57E–.02	9–5	4.6b,4.1s			
NEIC	V	11 14 17 07.8–2.0	36.29N	142.59E	10–12	4.8b,4.1s			
JMA	V	11 14 17 08.4–.20	36.33N	142.60E	77	4.5,4.1s			
MOS	V	11 14 17 11.4–.89	36.66N	142.55E	33	4.9b,4.1s			
ISC	Event type se.								
NIED	Moment Tensor Solution. Best double couple: NP1:ϕ_S247.00000°,δ33.00000°,λ-179.00000°. NP2:ϕ_S156.00000°,δ90.00000°,λ-57.00000°. $M_0$4.09000×10^{15}								
IDC	Error ellipse: s-maj=13.4km s-min=11.3km az=120.0.								
ISCJB	Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=166.2.								
NEIC	Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=136.0.								
JMA	Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.								
MOS	Error ellipse: s-maj=7.2km s-min=4.7km az=109.4.								
ISC	**V**	**11 14 43 25.3–.57**	**37.78N–.04**	**142.65E–.06**	**14**	**4.2b**	**59**	**1-76**	
ISCJB	V	11 14 43 23.6–.41	37.76N–.03	142.78E–.05	14	4.1b,2.5s			**¶16560031**

IDC V 11 14 43 23.7–.67 37.80N 142.65E 0 4.2,4.1
NEIC V 11 14 43 24.4–3.5 37.79N 142.84E 7–22 4.4b,4.1
JMA V 11 14 43 24.0–.20 37.78N 142.75E 17–2 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.7km az=176.2.
IDC Error ellipse: s-maj=18.8km s-min=14.4km az=97.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.6km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 11 15 05 14.5–4.5 37.76N–.07 143.68E–.07 14–29 4.0b 53 2-76
NIED V 11 15 05 00 37.80N 143.60E 5 3.9W **¶16577272**
ISCJB V 11 15 05 12.9–1.5 37.75N–.04 143.65E–.05 16–11 4.0b
IDC V 11 15 05 12.1–.71 37.72N 143.78E 0 4.0,3.9
JMA V 11 15 05 14.7–.30 37.83N 143.64E 44 4.2,3.9
NEIC V 11 15 05 17.0–.48 37.71N 143.75E 35 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ18.00000°,λ-118.00000°. NP2:ϕ_s191.00000°,δ74.00000°,λ-81.00000°. $M_0$7.83000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.9km az=155.0.
IDC Error ellipse: s-maj=17.4km s-min=14.6km az=142.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.5km az=117.0.
ISC V 11 15 08 07.4–.68 36.31N–.05 142.61E–.07 15 3.9b 53 2-90
NIED V 11 15 08 00 36.30N 142.60E 17 3.7W **¶16577273**
IDC V 11 15 08 05.0–.77 36.21N 142.70E 0 3.9,3.8
ISCJB V 11 15 08 05.9–.48 36.29N–.04 142.61E–.05 15 3.8b,3.7s
NEIC V 11 15 08 06.2–.54 36.26N 142.73E 10 4.1b,3.7s
JMA V 11 15 08 08.0–.20 36.33N 142.61E 56 3.6,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ1.00000°,λ105.00000°. NP2:ϕ_s201.00000°,δ89.00000°,λ90.00000°. $M_0$4.20000×10^{14}
IDC Error ellipse: s-maj=19.4km s-min=17.2km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.0km az=150.6.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.9km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 11 17 02 12.5–.84 37.80N–.06 143.58E–.07 19 3.7b 32 2-76
NIED V 11 17 02 00 37.80N 143.60E 5 3.9W **¶17203412**
IDC V 11 17 02 09.3–.80 37.68N 143.62E 0 3.9,3.7
ISCJB V 11 17 02 10.5–.61 37.73N–.05 143.58E–.05 19 3.6b,3.7
JMA V 11 17 02 12.2–.20 37.81N 143.57E 36 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ24.00000°,λ-145.00000°. NP2:ϕ_s219.00000°,δ77.00000°,λ-70.00000°. $M_0$7.59000×10^{14}
IDC Error ellipse: s-maj=23.4km s-min=17.1km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.9km az=155.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 11 17 57 15.2–.99 37.34N–.04 143.69E–.05 10–5 4.6b,4.1s 216 2-153
IDC V 11 17 57 13.7–.47 37.28N 143.76E 0 4.6,4.5 **¶16505638**
NEIC V 11 17 57 14.3–3.5 37.31N 143.74E 2–21 4.7b,4.5
ISCJB V 11 17 57 15.4–1.1 37.39N–.03 143.58E–.03 15–6 4.5b,4.1s
JMA V 11 17 57 16.6–.20 37.38N 143.60E 45 4.6,4.1s
MOS V 11 17 57 19.7–1.2 37.80N 143.58E 33 4.8b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=121.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.5km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=159.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.0km s-min=4.8km az=107.4.
ISC V 11 18 02 42.9–1.3 37.0N–.10 143.8E–.10 35 3.8b 10 5-61
IDC V 11 18 02 38.0–1.3 37.14N 143.93E 0 3.9,3.8 **¶17203415**
ISCJB V 11 18 02 40.6–1.0 37.06N–.10 143.8E–.10 33 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 11 18 10 42.8–4.1 37.29N–.05 143.72E–.07 5–26 4.0b 56 2-127
NIED V 11 18 10 00 37.40N 143.60E 5 4.0W **¶16709618**
IDC V 11 18 10 42.5–.68 37.27N 143.79E 0 4.0,4.0L
NEIC V 11 18 10 43.5–.51 37.26N 143.87E 10 4.4b,4.0L
ISCJB V 11 18 10 44.4–1.5 37.36N–.04 143.65E–.04 25–11 3.9b,4.0L
JMA V 11 18 10 45.5–.20 37.38N 143.63E 51 4.1,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ21.00000°,λ-89.00000°. NP2:ϕ_s212.00000°,δ69.00000°,λ-90.00000°. $M_0$1.21000×10^{15}
IDC Error ellipse: s-maj=18.0km s-min=14.3km az=120.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.9km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.6km az=151.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 11 18 14 34.0–.31 36.12N–.03 142.32E–.03 28–1 5.3s,5.1b 1003 1-154
NIED V 11 18 14 00 36.10N 142.40E 5 5.3W,5.1b **¶16505639**
IDC V 11 18 14 29.5–.37 36.10N 142.32E 0 4.9,4.9b
ISCJB V 11 18 14 30.6–.78 36.10N–.02 142.30E–.02 11–4 5.3s,5.0b
JMA V 11 18 14 31.6–.20 36.09N 142.44E 65 5.4,5.0b
GCMT V 11 18 14 31.9–.10 36.03N 142.65E 12 5.2W,5.0b
NEIC V 11 18 14 31.9–.12 36.10N 142.27E 10 5.2b,5.0b
BJI V 11 18 14 35.3 36.13N 141.90E 36 5.7s,5.5b
MOS V 11 18 14 35.3–.88 36.53N 142.27E 32 5.3b,5.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ45.00000°,λ66.00000°. NP2:ϕ_s44.00000°,δ50.00000°,λ113.00000°. $M_0$8.59000×10^{16}
IDC Error ellipse: s-maj=10.9km s-min=9.6km az=93.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.3km az=173.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s76,c125; s110,c216; Duration: 1±0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.01 $M_{\theta\theta}$-0.26±.01; $M_{\phi\phi}$-0.48±.01; $M_{r\theta}$0.14±.03; $M_{\theta\phi}$-0.40±.01; $M_{\phi r}$0.47±.03; Best double couple: NP1:ϕ_s26.00000°,δ61.00000°,λ79.00000°. NP2:ϕ_s229.00000°,δ31.00000°,λ110.00000°. Principal axes: T 0.8970,Plg71.0000°,Azm270.0000°; N 0.0150,Plg10.0000°,Azm31.0000°; P -0.9110,Plg16.0000°,Azm124.0000° $M_0$0.90400×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.7km az=154.0.
MOS Error ellipse: s-maj=6.6km s-min=4.0km az=113.1.
ISC V 11 18 27 32.2–1.0 37.34N–.06 143.72E–.08 35 3.7b 37 2-61
IDC V 11 18 27 28.0–.99 37.26N 143.79E 0 3.9,3.9L **¶17203417**
ISCJB V 11 18 27 31.0–.68 37.36N–.05 143.66E–.05 33 3.7b,3.9L
JMA V 11 18 27 31.7–.20 37.38N 143.59E 44 4.0,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=18.5km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.7km az=154.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 11 18 29 48.4–1.5 37.01N–.06 143.85E–.09 35 29 2-57
IDC V 11 18 29 44.3–2.4 36.94N 144.02E 0 3.8,3.8 **¶17203418**
ISCJB V 11 18 29 47.9–.93 37.04N–.05 143.76E–.07 33 3.7b,3.8
JMA V 11 18 29 49.7–.20 37.09N 143.69E 50 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=48.4km s-min=28.1km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.3km az=23.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 11 18 51 00.5–1.1 34.85N–.06 142.96E–.09 35 3.8b 24 2-77
IDC V 11 18 50 57.6–.97 34.87N 142.85E 0 3.9,3.8 **¶17203423**
ISCJB V 11 18 51 00.9–.76 34.87N–.04 142.73E–.07 33 3.7b,3.8
JMA V 11 18 51 00.1–.30 34.94N 142.87E 43 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.5km s-min=18.8km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.3km az=175.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 11 19 58 51.8–1.2 37.52N–.07 142.57E–.09 24 3.5b 19 1-61
JMA V 11 19 58 46.9–.20 37.46N 142.58E 0 4.0 **¶17203428**
IDC V 11 19 58 48.1–1.2 37.29N 142.93E 0 3.7,3.5b
ISCJB V 11 19 58 49.2–.88 37.47N–.06 142.66E–.07 24 3.5b,3.5b
ISC Event type ke.
ISCJB Event type ke.
JMA V 11 20 37 14.7–.20 37.79N 143.99E 35 3.5 ¶600612013

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA V 11 22 12 55.1–.60 34.96N 142.77E 11 3.5 ¶600612071
JMA Error ellipse: s-maj=4.4km s-min=4.6km az=-1.0.
ISC V 11 22 23 39.2–1.9 37.39N–.05 143.63E–.05 10–11 4.6b,3.3s 198 2-145
ISCJB V 11 22 23 37.4–1.1 37.41N–.04 143.61E–.03 9–6 4.5b,3.5s **¶16506955**
IDC V 11 22 23 37.0–.60 37.29N 143.70E 0 4.3,4.2
NEIC V 11 22 23 39.4–2.6 37.29N 143.71E 14–16 4.8b,4.2
JMA V 11 22 23 39.7–.20 37.37N 143.60E 44 4.3,4.2
MOS V 11 22 23 42.7–.96 37.72N 143.52E 33 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=177.9.
IDC Error ellipse: s-maj=15.7km s-min=12.9km az=130.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.0km az=147.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.0km s-min=6.0km az=114.5.
ISC V 11 22 31 44.5–.68 38.63N–.05 144.74E–.07 35 3.8b 51 2-87
NIED V 11 22 31 00 38.60N 144.60E 8 3.9W **¶17203439**
IDC V 11 22 31 39.3–.72 38.50N 144.94E 0 4.0,3.8
ISCJB V 11 22 31 42.8–.49 38.63N–.04 144.69E–.05 35 3.7b,3.1s
JMA V 11 22 31 43.6–.30 38.62N 144.57E 37 3.7,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ22.00000°,λ-65.00000°. NP2:ϕ_s176.00000°,δ70.00000°,λ-99.00000°. $M_0$7.58000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=15.1km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=145.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA V 12 02 30 34.5–.20 38.25N 144.14E 38 3.5
NIED V 12 02 30 00 38.20N 144.10E 5 3.5W **¶600612205**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ27.00000°,λ-94.00000°. NP2:ϕ_s197.00000°,δ63.00000°,λ-88.00000°. $M_0$2.17000×10^{14}
ISC V 12 05 28 25.1–1.5 37.02N–.08 142.6E–.10 9 3.7b 15 1-57
IDC V 12 05 28 22.5–2.4 37.01N 142.95E 0 3.8b,3.8 **¶17203457**
ISCJB V 12 05 28 23.2–1.2 36.99N–.08 142.7E–.10 9 3.6b,3.5s
JMA V 12 05 28 25.7–.30 36.98N 142.71E 42 3.2,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=59.1km s-min=28.4km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=10.3km az=162.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 12 06 02 32.8–1.0 37.12N–.08 142.17E–.07 19 3.8b,3.3s 21 1-74
NIED V 12 06 02 00 37.10N 142.40E 17 3.9W,3.3s **¶17203459**
IDC V 12 06 02 29.4–1.3 37.07N 142.52E 0 3.9,3.8
JMA V 12 06 02 30.9–.40 37.14N 142.35E 15–5 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ28.00000°,λ-23.00000°. NP2:ϕ_s215.00000°,δ80.00000°,λ-116.00000°. $M_0$7.57000×10^{14}
IDC Error ellipse: s-maj=26.9km s-min=23.7km az=130.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC V 12 06 51 26.4–2.9 38.15N 144.38E 0 3.9,3.7 ¶17203461
IDC Error ellipse: s-maj=71.6km s-min=32.2km az=62.0.
ISC V 12 07 01 31.5–.76 37.87N–.07 144.30E–.09 35 3.9b 31 4-74
IDC V 12 07 01 25.9–.81 37.79N 144.32E 0 4.0,3.9L **¶16560039**
ISCJB V 12 07 01 28.9–.53 37.81N–.05 144.29E–.06 33 3.9b,3.5s
NEIC V 12 07 01 31.2–.49 37.85N 144.27E 35 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=17.4km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=135.2.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.4km az=123.0.
ISC V 12 09 16 28.3–1.6 37.36N–.09 142.24E–.09 21 16 1-57
NIED V 12 09 16 00 37.30N 142.10E 26 3.5W **¶17203470**
IDC V 12 09 16 28.7–2.5 36.70N 142.37E 0 3.6,3.5b
JMA V 12 09 16 29.4–.30 37.30N 142.14E 19–5 3.8,3.5b
ISCJB V 12 09 16 30.2–1.5 37.32N–.08 142.1E–.10 21 3.5b,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ32.00000°,λ-94.00000°. NP2:ϕ_s154.00000°,δ58.00000°,λ-87.00000°. $M_0$1.85000×10^{14}
ISCJB Event type ke.
JMA V 12 09 18 30.0–.20 37.29N 142.24E 3–3 3.7 ¶600612428
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 12 09 21 58.3–.68 36.28N–.06 144.04E–.07 35 3.8b 36 3-89
NIED V 12 09 21 00 36.50N 143.90E 5 4.0W **¶16560040**
IDC V 12 09 21 53.0–.68 36.17N 144.27E 0 3.9,3.8
ISCJB V 12 09 21 56.5–.52 36.25N–.05 144.00E–.04 33 3.7b,3.8
JMA V 12 09 21 58.1–.20 36.48N 143.92E 76 3.7,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ17.00000°,λ-108.00000°. NP2:ϕ_s214.00000°,δ74.00000°,λ-85.00000°. $M_0$9.74000×10^{14}
IDC Error ellipse: s-maj=18.7km s-min=16.2km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.0km az=168.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 12 09 46 34.9–.58 39.81N–.05 143.38E–.04 23–3 4.7b,4.1s 235 1-146
NIED V 12 09 46 00 39.70N 143.60E 11 4.7W,4.1s **¶16506438**
JMA V 12 09 46 30.6–.20 39.71N 143.57E 11 4.6,4.1s
IDC V 12 09 46 30.2–.61 39.58N 143.42E 0 4.5,4.4
ISCJB V 12 09 46 33.0–.88 39.76N–.03 143.40E–.04 23–6 4.6b,4.1s
NEIC V 12 09 46 36.3–1.7 39.70N 143.34E 34–12 4.7b,4.1s
MOS V 12 09 46 36.9–.86 40.03N 143.29E 40 4.8b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ18.00000°,λ47.00000°. NP2:ϕ_s39.00000°,δ77.00000°,λ103.00000°. $M_0$1.23000×10^{16}
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.7km s-min=13.5km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.4km az=40.9.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.2km az=129.0.
MOS Error ellipse: s-maj=9.3km s-min=4.8km az=103.1.
ISC V 12 09 50 48.3–.65 39.56N–.06 143.3E–.10 11 4.3b 42 2-81
ISCJB V 12 09 50 46.6–.48 39.59N–.05 143.32E–.09 11 4.2b **¶16560041**
IDC V 12 09 50 46.9–.71 39.64N 143.43E 0 4.3,4.2
NEIC V 12 09 50 51.1–2.2 39.68N 143.37E 27–15 4.4b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=7.2km az=12.9.
IDC Error ellipse: s-maj=17.9km s-min=15.6km az=109.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.3km az=146.0.
JMA V 12 10 51 03.3–.10 39.39N 143.65E 29 3.9
NIED V 12 10 51 00 39.40N 143.60E 14 3.6W **¶600612480**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s180.00000°,δ40.00000°,λ70.00000°. NP2:ϕ_s25.00000°,δ52.00000°,λ106.00000°. $M_0$2.97000×10^{14}
ISC V 12 16 33 09.3–1.2 36.98N–.10 142.37E–.08 9 3.6b 16 1-74
ISCJB V 12 16 33 07.0–.89 36.84N–.09 142.49E–.09 9 3.6b,3.6s **¶17203484**
IDC V 12 16 33 07.5–1.3 36.88N 142.55E 0 3.7,3.6
JMA V 12 16 33 09.2–.40 36.96N 142.26E 0 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=9.8km az=7.3.
IDC Error ellipse: s-maj=35.0km s-min=20.8km az=82.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 12 17 22 26.3–.69 36.84N–.08 143.39E–.09 35 3.9b 30 4-89
ISCJB V 12 17 22 24.7–.68 36.90N–.09 143.43E–.09 33 3.9b,3.3s **¶16560043**
IDC V 12 17 22 26.4–.78 36.78N 143.55E 35–6 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=9.2km az=159.1.
IDC Error ellipse: s-maj=18.5km s-min=14.9km az=106.0.
ISC V 12 17 47 34.0–1.0 36.49N–.04 142.77E–.08 29 3.6b 39 2-75
NIED V 12 17 47 00 36.50N 142.70E 8 3.9W **¶600612656**
IDC V 12 17 47 29.5–1.1 36.50N 142.93E 0 3.7,3.7
ISCJB V 12 17 47 32.3–.67 36.51N–.03 142.80E–.05 29 3.6b,3.2s
JMA V 12 17 47 33.4–.20 36.49N 142.75E 63 3.6,3.2s
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ41.00000°,λ111.00000°. NP2:ϕ_s7.00000°,δ52.00000°,λ72.00000°. $M_0$7.50000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=18.8km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=14.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 12 18 05 47.8–.30 39.59N 143.77E 20 3.6
NIED V 12 18 05 00 39.60N 143.80E 11 3.6W **¶600612670**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ35.00000°,λ47.00000°. NP2:ϕ_s43.00000°,δ65.00000°,λ116.00000°. $M_0$2.55000×10^{14}
ISC V 12 20 14 49.9–1.6 34.90N–.07 142.9E–.10 35 21 2-59
IDC V 12 20 14 45.6–2.1 34.87N 142.93E 0 3.7,3.6 **¶17203502**
ISCJB V 12 20 14 47.8–.96 34.92N–.06 142.91E–.07 33 3.6b,3.6
JMA V 12 20 14 48.2–.50 34.88N 142.90E 50 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=46.6km s-min=29.7km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=8.3km az=145.6.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC V 12 20 47 07.6–2.0 36.20N–.07 142.3E–.20 10 3.6b 12 1-47
IDC V 12 20 46 55.9–8.2 34.60N 142.63E 0 3.5b,3.4 **¶17203504**
JMA V 12 20 47 10.1–.30 36.25N 142.11E 62 3.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=274.7km s-min=110.3km az=18.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 12 21 47 26.1–1.3 37.48N–.07 144.17E–.09 35 3.6b 25 2-62
IDC V 12 21 47 21.4–1.4 37.22N 144.51E 0 3.8,3.5 **¶17203508**
ISCJB V 12 21 47 24.7–.88 37.43N–.05 144.13E–.06 33 3.6b,3.5
JMA V 12 21 47 25.8–.20 37.51N 144.08E 50 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=50.4km s-min=29.2km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=7.0km az=21.6.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA V 12 23 34 48.1–.20 37.93N 143.46E 31 3.5
¶600612832
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 13 00 48 41.9–.20 39.34N 143.84E 8 3.6
¶600612885
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 13 00 51 09.0–.76 39.45N–.05 143.67E–.06 23–3 3.7b 49 1-75
JMA V 13 00 51 04.5–.20 39.35N 143.83E 19 4.1 **¶17203516**
ISCJB V 13 00 51 05.9–1.5 39.37N–.05 143.72E–.06 16–11 3.7b
IDC V 13 00 51 09.9–.99 39.27N 143.63E 31–4 3.7,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.2km az=137.6.
IDC Error ellipse: s-maj=22.0km s-min=16.1km az=154.0.
JMA V 13 01 56 26.7–.20 39.37N 143.92E 19 3.6
¶600612933
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 13 02 56 35.8–1.3 37.34N–.05 143.68E–.09 35 27 2-58
IDC V 13 02 56 31.8–1.6 37.20N 143.80E 0 3.9,3.7 **¶17203520**
ISCJB V 13 02 56 34.6–.90 37.37N–.05 143.64E–.06 33 3.6b,3.7
JMA V 13 02 56 35.3–.30 37.38N 143.55E 41 3.3,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=43.9km s-min=25.8km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.7km az=21.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA V 13 03 23 59.9–.30 39.36N 143.80E 14–5 3.7
NIED V 13 03 23 00 39.40N 143.80E 11 3.5W **¶600612964**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ32.00000°,λ107.00000°. NP2:ϕ_s356.00000°,δ60.00000°,λ80.00000°. $M_0$2.20000×10^{14}
ISC V 13 04 41 32.5–.70 36.25N–.06 142.61E–.06 18 4.0b 40 2-146
IDC V 13 04 41 29.4–.89 36.16N 142.74E 0 3.9,3.8 **¶16587328**
ISCJB V 13 04 41 31.3–.60 36.31N–.06 142.61E–.05 18 3.9b,3.8
NEIC V 13 04 41 32.0–3.9 36.06N 142.71E 21–27 4.2b,3.8
JMA V 13 04 41 33.4–.20 36.37N 142.50E 23 4.0,3.8
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=19.4km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=4.9km az=150.9.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=10.4km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 13 05 15 27.4–.93 38.84N–.06 144.50E–.07 19 3.5b 33 2-87
IDC V 13 05 15 24.1–1.1 38.73N 144.59E 0 3.9,3.7 **¶17203525**
ISCJB V 13 05 15 26.1–.65 38.88N–.04 144.48E–.05 19 3.6b,3.7
JMA V 13 05 15 28.5–.20 38.81N 144.43E 48 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=30.0km s-min=21.8km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=44.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 13 05 57 02.9–1.0 34.98N–.08 142.82E–.09 35 3.6b 17 2-75
IDC V 13 05 56 57.7–1.1 34.86N 142.88E 0 3.8,3.6 **¶17203526**
ISCJB V 13 05 57 00.6–.82 34.96N–.07 142.85E–.07 33 3.6b,3.6
JMA V 13 05 57 01.7–.40 34.88N 142.71E 78 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.8km s-min=26.2km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.5km az=28.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 13 06 50 42.2–.10 37.89N 144.02E 0 3.7
¶600613054
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 13 08 14 57.5–1.1 37.34N–.06 143.72E–.09 35 3.7b 30 2-61
IDC V 13 08 14 53.2–1.0 37.20N 143.79E 0 3.8,3.8L **¶17203534**
ISCJB V 13 08 14 56.1–.75 37.38N–.05 143.70E–.07 33 3.7b,3.8L
JMA V 13 08 14 56.9–.30 37.35N 143.59E 47 3.6,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=18.8km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.3km az=33.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 13 09 00 01.3–.93 39.2N–.10 144.70E–.08 19 3.5b 15 2-87
IDC V 13 08 59 58.0–.92 39.02N 144.92E 0 3.8,3.6 **¶17203542**
ISCJB V 13 08 59 59.5–.75 39.21N–.09 144.71E–.07 19 3.5b,2.9s
NIED V 13 09 00 00 39.20N 144.50E 5 3.7W,2.9s
JMA V 13 09 00 03.2–.10 39.15N 144.49E 33 3.8,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=19.7km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.7km az=172.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ25.00000°,λ-81.00000°. NP2:ϕ_s200.00000°,δ66.00000°,λ-94.00000°. $M_0$4.50000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
ISC V 13 10 17 01.2–1.8 37.84N–.04 143.58E–.05 32–12 4.5b,3.6s 231 2-154
IDC V 13 10 16 56.0–.54 37.68N 143.63E 0 4.5,4.5L **¶16509469**
NEIC V 13 10 16 58.0–.21 37.71N 143.62E 10 4.6b,4.5L
JMA V 13 10 17 00.1–.20 37.88N 143.53E 45 4.7,4.5L
ISCJB V 13 10 17 00.5–.22 37.86N–.03 143.51E–.03 33 4.4b,3.7s
NIED V 13 10 17 00 37.90N 143.50E 14 4.3W,3.7s
MOS V 13 10 17 01.3–.99 38.06N 143.44E 33 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=12.8km az=133.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=152.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=165.0.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s38.00000°,δ30.00000°,λ-103.00000°. NP2:ϕ_s232.00000°,δ61.00000°,λ-83.00000°. $M_0$2.70000×10^{15}
MOS Error ellipse: s-maj=8.7km s-min=5.8km az=97.0.
JMA V 13 13 16 42.9–.10 38.42N 144.39E 13 3.6
¶600613301
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 13 13 56 13.8–1.3 37.13N–.06 144.1E–.10 35 3.8b 22 3-76
IDC V 13 13 56 10.3–1.5 37.16N 143.95E 0 3.8,3.8 **¶17203551**
ISCJB V 13 13 56 12.7–.91 37.15N–.06 144.05E–.09 33 3.8b,3.8
JMA V 13 13 56 15.4–.20 37.50N 143.82E 0 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=37.3km s-min=23.3km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.7km az=149.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA V 13 14 59 17.5–.30 38.35N 144.52E 17 3.7
¶600613366
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA V 13 17 04 52.8–.20 38.12N 143.04E 12–3 3.9
NIED V 13 17 04 00 38.10N 143.00E 11 3.5W **¶600613422**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ46.00000°,λ-137.00000°. NP2:ϕ_s203.00000°,δ61.00000°,λ-53.00000°. $M_0$2.35000×10^{14}
ISC V 13 20 16 43.6–1.4 35.67N–.07 142.7E–.10 59 3.4b 19 2-60
IDC V 13 20 16 35.1–2.2 35.71N 143.16E 0 3.6,3.5 **¶16709801**
JMA V 13 20 16 37.9–.40 35.76N 143.02E 53 3.3,3.5
ISCJB V 13 20 16 41.1–.98 35.63N–.06 142.78E–.08 59 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 13 20 29 12.4–3.5 34.83N–.06 142.74E–.08 6–22 3.7b 33 1-63
NIED V 13 20 29 00 34.90N 142.80E 8 3.6W **¶17203570**
IDC V 13 20 29 11.2–2.0 34.79N 142.88E 0 3.8,3.6
JMA V 13 20 29 13.5–.30 34.86N 142.81E 32 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ37.00000°,λ-85.00000°. NP2:ϕ_s195.00000°,δ53.00000°,λ-93.00000°. $M_0$3.24000×10^{14}
IDC Error ellipse: s-maj=50.4km s-min=21.0km az=65.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 13 21 03 60.0–.56 39.45N–.05 143.36E–.05 11 4.2b 74 1-87
ISCJB V 13 21 03 58.4–.37 39.48N–.04 143.42E–.04 11 4.8s,4.1b **¶16560055**
NIED V 13 21 04 00 39.50N 143.40E 14 4.0W,4.1b
JMA V 13 21 04 00.8–.20 39.50N 143.38E 29–4 4.4,4.1b
IDC V 13 21 04 03.2–4.5 39.51N 143.29E 32–34 4.1,4.1
NEIC V 13 21 04 04.4–.75 39.57N 143.27E 40–6 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.7km az=150.5.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ43.00000°,λ90.00000°. NP2: ϕ_s181.00000°,δ47.00000°,λ90.00000°. $M_0$1.27000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=16.1km s-min=13.1km az=121.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.2km az=130.0.
ISC V 13 22 59 04.4–1.0 35.97N–.05 142.89E–.08 35 3.6b 27 2-146
IDC V 13 22 58 59.8–1.4 35.86N 142.96E 0 3.9,3.7 **¶17203575**
ISCJB V 13 22 59 02.7–.84 36.02N–.04 142.88E–.06 33 3.5b,3.7
JMA V 13 22 59 02.6–.30 35.99N 142.86E 76 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=47.2km s-min=24.2km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.7km az=12.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 13 23 12 52.9–3.5 39.57N–.08 143.3E–.10 11–18 3.6b 22 1-50
JMA V 13 23 12 52.7–.20 39.54N 143.40E 25–4 3.6 **¶17203577**
IDC V 13 23 12 52.6–11 39.77N 143.17E 0 3.6,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=204.8km s-min=47.0km az=108.0.
ISC V 14 04 51 22.2–.96 39.50N–.07 143.44E–.08 11 3.7b 30 1-73
ISCJB V 14 04 51 20.2–.72 39.47N–.05 143.59E–.08 11 3.6b **¶17203587**
JMA V 14 04 51 20.1–.20 39.37N 143.61E 13–3 4.0
IDC V 14 04 51 21.2–1.1 39.58N 143.30E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.0km az=33.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=24.9km s-min=21.5km az=125.0.
ISC V 14 05 30 52.4–1.4 40.1N–.10 143.8E–.20 6 4.0b,3.3s 13 2-78
ISCJB V 14 05 30 50.7–1.1 40.1N–.10 143.6E–.30 6 4.0b,3.2s **¶16591578**
IDC V 14 05 30 52.4–1.6 40.17N 143.47E 0 4.0,3.9
NEIC V 14 05 30 58.3–1.1 40.11N 143.20E 35 4.4b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.9km s-min=14.9km az=163.6.
IDC Error ellipse: s-maj=57.3km s-min=19.7km az=73.0.
NEIC Event type se. Error ellipse: s-maj=32.2km s-min=14.3km az=90.0.
ISC V 14 06 05 20.5–.90 38.09N–.08 143.08E–.08 18 3.6b 28 1-76
NIED V 14 06 05 00 38.10N 143.10E 11 3.8W **¶17203588**
IDC V 14 06 05 17.3–.80 38.00N 143.27E 0 3.8,3.8L
ISCJB V 14 06 05 18.2–.63 38.02N–.06 143.18E–.06 18 3.6b,2.6s
JMA V 14 06 05 18.8–.30 38.10N 143.08E 13–4 4.2,2.6s
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s21.00000°,δ37.00000°,λ-123.00000°. NP2:ϕ_s240.00000°,δ60.00000°,λ-68.00000°. $M_0$5.66000×10^{14}
IDC Error ellipse: s-maj=22.3km s-min=17.1km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.0km az=160.4.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 14 07 02 07.7–1.8 37.08N–.04 142.67E–.04 17–10 4.5b,4.1s 163 1-146
NIED V 14 07 02 00 36.90N 142.80E 8 4.6W,4.1s **¶16510418**
IDC V 14 07 02 03.4–.61 36.81N 142.76E 0 4.3,4.2
ISCJB V 14 07 02 05.6–.98 36.94N–.03 142.66E–.03 16–6 4.4b,4.1s
JMA V 14 07 02 05.8–.30 36.87N 142.75E 53 4.6,4.1s
NEIC V 14 07 02 05.7–3.1 37.07N 142.70E 2–18 4.7b,4.1s
MOS V 14 07 02 09.3–.93 37.21N 142.61E 33 4.5b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s28.00000°,δ84.00000°,λ180.00000°. NP2:ϕ_s118.00000°,δ90.00000°,λ6.00000°. $M_0$8.19000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=13.4km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=159.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=5.6km az=154.0.
MOS Error ellipse: s-maj=9.1km s-min=6.2km az=97.3.
ISC V 14 10 05 26.6–1.3 38.53N–.07 144.74E–.08 35 3.9s 25 2-76
NIED V 14 10 05 00 38.40N 144.60E 5 3.6W **¶17203599**
IDC V 14 10 05 21.5–1.5 38.31N 144.99E 0 3.8,3.8
ISCJB V 14 10 05 25.4–.94 38.44N–.07 144.69E–.07 35 3.8s,3.5b
JMA V 14 10 05 25.9–.20 38.41N 144.57E 32 3.7,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s49.00000°,δ28.00000°,λ-65.00000°. NP2:ϕ_s201.00000°,δ65.00000°,λ-103.00000°. $M_0$3.27000×10^{14}
IDC Error ellipse: s-maj=36.6km s-min=26.6km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.7km az=153.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 14 12 57 35.1–1.1 37.84N–.06 143.52E–.09 19 3.6b 24 2-65
NIED V 14 12 57 00 37.90N 143.40E 5 3.5W **¶17203607**
IDC V 14 12 57 32.3–1.5 37.78N 143.68E 0 3.7,3.7L
ISCJB V 14 12 57 33.7–.84 37.87N–.05 143.57E–.07 19 3.5b,3.4s
JMA V 14 12 57 35.7–.10 37.92N 143.45E 22 3.5,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Double couple: NP1:ϕ_s2.00000°,δ40.00000°,λ-87.00000°. NP2:ϕ_s179.00000°,δ50.00000°,λ-92.00000°. $M_0$2.13000×10^{14}
IDC Error ellipse: s-maj=38.7km s-min=23.7km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.2km az=161.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 14 13 50 16.1–1.4 36.33N–.04 142.18E–.09 15 3.7b 20 1-47
ISCJB V 14 13 50 14.7–1.0 36.33N–.04 142.41E–.10 15 3.6b **¶17203611**
IDC V 14 13 50 14.1–4.2 36.25N 142.37E 0 3.7,3.7b
JMA V 14 13 50 18.0–.20 36.35N 142.23E 55 3.1,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.6km az=15.4.
IDC Error ellipse: s-maj=76.9km s-min=31.5km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 14 14 51 37.4–.79 39.73N–.07 143.46E–.09 36–2 3.6b 47 1-87
NIED V 14 14 51 00 39.80N 143.60E 23 4.0W **¶16560064**
JMA V 14 14 51 32.7–.10 39.76N 143.60E 27–3 3.9
ISCJB V 14 14 51 33.8–1.8 39.74N–.04 143.53E–.05 24–13 3.6b,2.9s

IDC V 14 14 51 38.4–2.2 39.72N 143.39E 46–19 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ31.00000°,λ77.00000°. NP2:ϕ_s29.00000°,δ60.00000°,λ98.00000°. $M_0$1.22000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.4km az=34.2.
IDC Error ellipse: s-maj=20.3km s-min=12.9km az=119.0.
ISC V 14 16 23 09.0–2.2 36.68N–.05 142.16E–.07 4–12 3.5b 31 1-64
IDC V 14 16 23 08.3–1.1 36.62N 142.34E 0 3.6,3.6 **¶17203621**
JMA V 14 16 23 11.0–.20 36.73N 142.17E 30–4 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=19.2km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 14 19 47 18.2–.20 39.63N 143.67E 28 3.6
NIED V 14 19 47 00 39.60N 143.70E 23 3.5W **¶600614361**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ33.00000°,λ80.00000°. NP2:ϕ_s8.00000°,δ57.00000°,λ97.00000°. $M_0$2.34000×10^{14}
ISC V 15 01 26 29.9–1.2 34.99N–.09 142.79E–.09 35 3.8b,3.4s 20 2-85
IDC V 15 01 26 24.7–1.1 34.94N 142.87E 0 3.8,3.6 **¶17203651**
ISCJB V 15 01 26 27.8–.84 34.97N–.07 142.80E–.07 33 3.6b,3.5s
JMA V 15 01 26 27.9–.50 34.88N 142.80E 63 3.3,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=22.4km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.4km az=21.1.
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
ISC V 15 02 42 06.1–.70 36.68N–.04 142.35E–.04 23–4 4.6b,3.9s 239 1-151
NIED V 15 02 42 00 36.70N 142.30E 11 4.5W,3.9s **¶16512087**
ISCJB V 15 02 42 03.2–.99 36.72N–.03 142.25E–.03 7–6 4.5b,4.0s
JMA V 15 02 42 03.4–.40 36.70N 142.30E 16 4.5,4.0s
IDC V 15 02 42 03.0–.60 36.70N 142.37E 0 4.3,4.2L
MOS V 15 02 42 07.9–.98 36.94N 142.19E 33 4.6b,4.2L
NEIC V 15 02 42 07.3–2.2 36.80N 142.24E 21–15 4.7b,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ55.00000°,λ-32.00000°. NP2:ϕ_s150.00000°,δ64.00000°,λ-140.00000°. $M_0$7.29000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=167.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=13.6km az=120.0.
MOS Error ellipse: s-maj=7.9km s-min=5.9km az=100.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.9km az=142.0.
ISC V 15 03 53 48.6–2.9 36.42N–.04 142.42E–.07 7–17 3.8b 48 1-146
NIED V 15 03 53 00 36.50N 142.40E 11 3.8W **¶16591582**
IDC V 15 03 53 47.4–.75 36.39N 142.52E 0 3.9,3.8L
NEIC V 15 03 53 48.3–3.8 36.41N 142.55E 7–22 4.1b,3.8L
JMA V 15 03 53 51.0–.20 36.46N 142.42E 63 3.8,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ39.00000°,λ-82.00000°. NP2:ϕ_s178.00000°,δ52.00000°,λ-96.00000°. $M_0$5.78000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=17.5km az=112.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.0km az=132.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 15 04 34 42.3–.83 37.83N–.05 143.68E–.08 19 3.6b 32 2-76
NIED V 15 04 34 00 37.80N 143.50E 5 3.6W **¶17203662**
IDC V 15 04 34 39.2–1.0 37.79N 143.89E 0 3.8,3.7L
ISCJB V 15 04 34 40.6–.59 37.85N–.04 143.65E–.05 19 3.6b,3.7L
JMA V 15 04 34 43.6–.20 37.82N 143.54E 44 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ42.00000°,λ-39.00000°. NP2:ϕ_s353.00000°,δ65.00000°,λ-125.00000°. $M_0$3.06000×10^{14}
IDC Error ellipse: s-maj=25.7km s-min=20.7km az=147.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=135.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 15 04 39 27.1–1.6 34.99N–.07 142.92E–.10 35 20 2-59
IDC V 15 04 39 21.7–11 35.05N 143.19E 0 3.9,3.7b **¶17203663**
ISCJB V 15 04 39 25.4–1.0 35.03N–.05 142.94E–.08 33 3.8b,3.7b
JMA V 15 04 39 25.5–.40 34.88N 142.91E 49 3.5,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=298.9km s-min=39.8km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.7km az=16.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC V 15 04 49 59.5–1.7 34.96N–.09 142.9E–.10 35 3.8b 17 2-59
ISCJB V 15 04 49 57.5–1.1 34.98N–.07 142.95E–.08 35 3.7b **¶600614689**
JMA V 15 04 49 57.3–.40 34.88N 142.93E 45 3.5
IDC V 15 04 50 05.0–9.0 33.74N 140.92E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.7km az=39.8.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=348.5km s-min=21.9km az=67.0.
ISC V 15 07 16 13.1–2.5 37.2N–.10 142.1E–.10 10 11 1-57
IDC V 15 07 16 06.7–3.1 36.79N 142.73E 0 3.6,3.5L **¶17203674**
JMA V 15 07 16 11.0–.40 36.98N 142.37E 28 3.4,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=76.8km s-min=34.0km az=56.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 15 08 04 03.3–1.3 34.97N–.10 142.99E–.10 35 17 2-90
IDC V 15 08 03 58.3–1.5 34.98N 143.22E 0 3.7,3.5 **¶600614791**
ISCJB V 15 08 04 01.6–1.0 35.00N–.07 143.01E–.08 33 3.5b,3.5
JMA V 15 08 04 03.1–.60 34.90N 142.87E 64 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=32.1km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=9.8km az=1.1.
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISC V 15 08 21 39.8–.94 37.79N–.05 143.55E–.08 19 3.7b 31 2-62
NIED V 15 08 21 00 37.80N 143.50E 8 3.7W **¶17203679**
IDC V 15 08 21 36.9–.97 37.71N 143.74E 0 3.7,3.7L
ISCJB V 15 08 21 38.2–.67 37.82N–.04 143.54E–.06 19 3.6b,3.1s
JMA V 15 08 21 40.2–.30 37.85N 143.50E 43 3.6,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ30.00000°,λ-87.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ-92.00000°. $M_0$3.76000×10^{14}
IDC Error ellipse: s-maj=26.9km s-min=18.4km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.9km az=4.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 15 09 23 32.5–.96 39.43N–.08 143.6E–.20 11 3.6b 10 5-61
ISCJB V 15 09 23 30.6–.84 39.41N–.06 143.6E–.20 11 3.5b **¶17203683**
IDC V 15 09 23 31.0–1.1 39.44N 143.52E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.5km s-min=8.4km az=11.9.
IDC Error ellipse: s-maj=29.3km s-min=17.9km az=111.0.
ISC V 15 10 25 18.5–.46 37.10N–.03 142.37E–.03 17–2 5.1b,4.6s 777 1-160
NIED V 15 10 25 00 37.10N 142.50E 20 4.8W,4.6s **¶16512097**
JMA V 15 10 25 14.4–.40 37.07N 142.49E 6–4 5.1,4.6s
ISCJB V 15 10 25 15.8–.75 37.06N–.02 142.37E–.02 5–4 5.0b,4.6s
IDC V 15 10 25 15.9–.40 37.07N 142.41E 0 4.9,4.8
BJI V 15 10 25 19.1 37.15N 142.24E 33 5.1b,5.0b
MOS V 15 10 25 20.1–.92 37.46N 142.27E 23 5.3b,4.6s
NEIC V 15 10 25 21.3–1.1 37.06N 142.33E 31–8 5.1b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ54.00000°,λ-162.00000°. NP2:ϕ_s232.00000°,δ75.00000°,λ-37.00000°. $M_0$1.92000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=174.0.
IDC Error ellipse: s-maj=12.8km s-min=10.2km az=97.0.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=100.7.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=131.0. Recorded [2 JMA] in Fukushima and Miyagi.
ISC V 15 11 02 59.8–.71 36.37N–.05 142.86E–.07 29 3.7b 43 2-146
NIED V 15 11 02 00 36.40N 142.80E 5 4.0W **¶17203689**
IDC V 15 11 02 55.7–.73 36.24N 142.99E 0 3.9,3.7L
ISCJB V 15 11 02 58.4–.52 36.35N–.04 142.81E–.05 29 3.6b,2.9s
JMA V 15 11 02 59.7–.20 36.37N 142.75E 49 3.6,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ24.00000°,λ-96.00000°. NP2:ϕ_s197.00000°,δ66.00000°,λ-87.00000°. $M_0$1.10000×10^{15}
IDC Error ellipse: s-maj=21.0km s-min=17.6km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=34.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 15 12 09 32.5–2.6 36.83N 143.81E 0 3.5,3.5
¶17203692
IDC Error ellipse: s-maj=57.0km s-min=30.4km az=73.0.
ISC V 15 12 14 18.8–.45 37.27N–.03 142.76E–.03 45–3 4.8b,3.9s 416 2-160
NIED V 15 12 14 00 37.30N 142.60E 74 5.1W,3.9s **¶16512098**
ISCJB V 15 12 14 18.7–.40 37.29N–.02 142.67E–.03 53–3 4.8b,3.9s
MOS V 15 12 14 19.9–.91 37.52N 142.56E 59 5.1b,3.9s
NEIC V 15 12 14 20.3–.58 37.24N 142.61E 57–5 4.9b,3.9s
GCMT V 15 12 14 20.3–.20 37.29N 142.67E 72–1 5.1W,3.9s
IDC V 15 12 14 20.9–1.8 37.24N 142.65E 67–16 4.6,4.4
JMA V 15 12 14 20.7–.20 37.29N 142.56E 68 5.3,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s136.00000°,δ55.00000°,λ-28.00000°. NP2:ϕ_s242.00000°,δ68.00000°,λ-142.00000°. $M_0$4.33000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=44.7.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=100.2.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=129.0. Recorded [3 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c73; s95,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.13 $M_{\theta\theta}$4.54±.12; $M_{\phi\phi}$-3.37±.12; $M_{r\theta}$1.59±.09; $M_{\theta\phi}$-1.53±.10; $M_{\phi r}$1.91±.08; Best double couple: NP1:ϕ_s239.00000°,δ78.00000°,λ-149.00000°. NP2:ϕ_s142.00000°,δ59.00000°,λ-14.00000°. Principal axes: T 5.0830,Plg12.0000°,Azm8.0000°; N -0.1310,Plg56.0000°,Azm259.0000°; P -4.9520,Plg31.0000°,Azm105.0000° $M_0$5.01700×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=10.0km az=91.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 15 13 38 47.2–.94 38.39N–.08 143.22E–.08 23 3.7b 20 1-88
IDC V 15 13 38 43.0–.91 38.26N 143.31E 0 3.8,3.7 **¶17203694**
ISCJB V 15 13 38 44.8–.65 38.32N–.05 143.25E–.06 23 3.7b,3.7
JMA V 15 13 38 44.1–.20 38.39N 143.19E 10 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=16.3km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.9km az=15.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 15 13 48 33.4–.72 37.67N–.04 142.87E–.05 11–4 4.8s,4.6b 197 1-145
NIED V 15 13 48 00 37.60N 142.80E 26 4.6W,4.6b **¶16521352**
IDC V 15 13 48 32.0–.52 37.63N 142.83E 0 4.6s,4.6
JMA V 15 13 48 31.6–.30 37.66N 142.84E 12–4 4.8,4.6
ISCJB V 15 13 48 32.3–.98 37.71N–.03 142.85E–.03 12–6 4.7s,4.5b
MOS V 15 13 48 35.6–1.4 37.82N 142.81E 33 4.9b,4.5b
NEIC V 15 13 48 37.1–1.9 37.72N 142.83E 32–13 4.8b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ41.00000°,λ113.00000°. NP2:ϕ_s217.00000°,δ53.00000°,λ71.00000°. $M_0$8.95000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.7km az=92.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.9km az=140.6.
MOS Error ellipse: s-maj=8.1km s-min=4.7km az=108.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.6km az=118.0. Recorded [1 JMA] in Miyagi.
ISC V 15 15 10 13.2–2.1 38.38N–.05 143.77E–.06 0–12 3.6b 40 2-88
IDC V 15 15 10 12.8–.90 38.20N 144.24E 0 3.8,3.7 **¶600615020**
JMA V 15 15 10 20.0–.40 38.48N 143.47E 1 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=17.9km az=97.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA V 15 15 42 48.3–.30 40.11N 143.40E 3–3 3.6
NIED V 15 15 42 00 40.10N 143.40E 20 3.7W **¶600615038**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ38.00000°,λ144.00000°. NP2:ϕ_s299.00000°,δ69.00000°,λ57.00000°. $M_0$3.76000×10^{14}
ISC V 15 17 06 22.2–1.0 39.25N–.06 144.62E–.08 23 3.5b 37 2-68
NIED V 15 17 06 00 39.20N 144.50E 5 3.5W **¶17203700**
ISCJB V 15 17 06 21.3–.75 39.30N–.04 144.57E–.06 23 3.4b
JMA V 15 17 06 23.8–.20 39.20N 144.46E 44 3.5
IDC V 15 17 06 24.1–4.8 39.11N 144.57E 36–39 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ37.00000°,λ-96.00000°. NP2:ϕ_s2.00000°,δ53.00000°,λ-85.00000°. $M_0$2.07000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=40.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=19.2km az=90.0.
JMA V 15 17 41 59.6–.20 37.76N 142.13E 31–4 3.5
NIED V 15 17 41 00 37.80N 142.10E 35 3.4W **¶600615122**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s154.00000°,δ63.00000°,λ-174.00000°. NP2:ϕ_s61.00000°,δ85.00000°,λ-27.00000°. $M_0$1.44000×10^{14}
ISC V 15 18 01 35.3–1.4 38.76N–.06 144.23E–.10 29 3.5b 35 2-63
NIED V 15 18 01 00 38.80N 144.10E 5 3.5W **¶17203702**
IDC V 15 18 01 30.4–1.8 38.67N 144.51E 0 3.7,3.7
ISCJB V 15 18 01 33.8–.77 38.75N–.04 144.22E–.06 29 3.5b,3.7
JMA V 15 18 01 35.7–.20 38.76N 144.13E 43 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ31.00000°,λ-142.00000°. NP2:ϕ_s39.00000°,δ72.00000°,λ-65.00000°. $M_0$2.26000×10^{14}
IDC Error ellipse: s-maj=47.3km s-min=20.8km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.6km az=41.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 15 18 49 08.9–.87 36.34N–.06 142.03E–.08 19 3.8b 32 1-147
ISCJB V 15 18 49 06.6–.67 36.30N–.04 142.20E–.08 19 3.8b **¶16709963**
IDC V 15 18 49 06.7–1.3 36.33N 142.01E 0 3.9,3.9
JMA V 15 18 49 10.8–.20 36.35N 141.83E 70–4 3.4,3.9
NEIC V 15 18 49 11.4–.65 36.30N 142.02E 35 4.0b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.3km az=1.6.
IDC Error ellipse: s-maj=32.0km s-min=19.1km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=9.6km az=70.0.
ISC V 15 19 23 06.7–4.3 37.50N–.05 144.00E–.08 16–28 3.9b 61 2-75
NEIC V 15 19 23 05.0–.83 37.30N 144.19E 10 4.3b **¶16709964**
IDC V 15 19 23 04.2–1.0 37.35N 144.07E 0 4.6,4.6s
ISCJB V 15 19 23 05.9–1.4 37.49N–.04 143.87E–.05 19–11 4.6s,3.8b
JMA V 15 19 23 08.1–.30 37.48N 143.81E 49 3.9,3.8b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=10.3km az=108.0.
IDC Error ellipse: s-maj=25.9km s-min=17.0km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.3km az=38.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 15 19 40 21.6–2.1 36.34N–.04 142.17E–.08 1–11 3.8b 29 1-75
IDC V 15 19 40 21.1–3.2 36.27N 142.37E 0 3.8b,3.8 **¶17203705**
JMA V 15 19 40 27.4–.20 36.35N 141.88E 64 3.5,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=63.0km s-min=25.5km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 15 20 42 20.2–2.3 35.23N–.06 142.35E–.07 13–13 3.4b 24 1-55
IDC V 15 20 42 19.5–1.2 35.24N 142.24E 0 3.6,3.6 **¶17203709**
ISCJB V 15 20 42 21.7–2.3 35.25N–.06 142.34E–.07 33–19 3.4b,3.6
JMA V 15 20 42 21.7–.30 35.39N 142.39E 46 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=18.9km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.9km az=39.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 16 00 36 46.0–.81 37.73N–.06 142.68E–.07 21 4.1b 45 1-74

NIED V 16 00 36 00 37.60N 142.80E 5 4.0W ¶600615338
IDC V 16 00 36 42.0–.97 37.61N 142.74E 0 4.1,4.0b
JMA V 16 00 36 42.2–.30 37.65N 142.77E 15–4 4.4,4.0b
ISCJB V 16 00 36 43.3–.60 37.62N–.04 142.79E–.06 21 4.1b,4.0b
NEIC V 16 00 36 47.2–2.5 37.65N 142.79E 34–17 4.2b,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s287.00000°,δ25.00000°,λ-172.00000°. NP2:ϕ_s190.00000°,δ87.00000°,λ-65.00000°. $M_0$9.74000×10^{14}
IDC Error ellipse: s-maj=24.1km s-min=20.0km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.6km az=33.8.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=7.8km az=126.0.
ISC V 16 01 11 07.6–.55 37.11N–.05 143.49E–.06 35 4.3b,3.5s 88 2-145
NIED V 16 01 11 00 37.20N 143.40E 5 4.2W,3.5s ¶16524510
IDC V 16 01 11 01.9–.57 36.98N 143.60E 0 4.3,4.2
NEIC V 16 01 11 03.6–.39 37.09N 143.58E 10 4.5b,4.2
ISCJB V 16 01 11 05.7–.35 37.09N–.04 143.37E–.04 33 4.3b,3.5s
JMA V 16 01 11 05.6–.20 37.15N 143.39E 57 4.2,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ15.00000°,λ-109.00000°. NP2:ϕ_s217.00000°,δ76.00000°,λ-85.00000°. $M_0$2.49000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.5km az=117.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.8km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.0km az=160.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 16 02 22 59.0–.30 37.32N 142.45E 0 3.7
¶600615387
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 16 03 02 14.6–1.4 37.76N–.08 143.69E–.09 35 21 2-58
IDC V 16 03 02 09.6–1.6 37.46N 144.01E 0 4.4L,4.1 ¶17203723
ISCJB V 16 03 02 13.0–1.1 37.74N–.06 143.70E–.07 33 3.6b,4.1
JMA V 16 03 02 14.2–.30 37.76N 143.60E 40 4.2,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=50.2km s-min=28.1km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.8km az=137.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 16 07 14 38.9–1.7 37.05N–.10 142.3E–.30 39–11 17 1-57
IDC V 16 07 14 31.7–3.0 37.18N 142.69E 0 3.5,3.4b ¶17203731
JMA V 16 07 14 36.7–.20 37.04N 142.29E 30–5 3.3,3.4b
ISCJB V 16 07 14 38.0–1.7 37.01N–.07 142.3E–.10 49–16 3.4b,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC V 16 07 17 05.0–2.8 37.41N–.05 142.53E–.07 2–16 3.9b,3.5s 53 1-146
NIED V 16 07 17 00 37.40N 142.60E 5 4.2W,3.5s ¶16560079
ISCJB V 16 07 17 02.8–1.5 37.36N–.04 142.68E–.04 2–10 4.0b,3.5s
JMA V 16 07 17 02.8–.40 37.36N 142.61E 0 4.6,3.5s
IDC V 16 07 17 04.2–.67 37.30N 142.65E 0 4.1,4.0
NEIC V 16 07 17 09.5–.48 37.38N 142.66E 35 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ47.00000°,λ-43.00000°. NP2:ϕ_s189.00000°,δ60.00000°,λ-129.00000°. $M_0$2.49000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.1km az=171.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=15.9km az=121.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.6km az=134.0.
JMA V 16 07 29 02.9–.40 36.24N 143.54E 48 3.5
¶600615538
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 16 08 19 57.9–.55 37.15N–.04 143.49E–.06 35 4.2b,3.3s 76 2-150
IDC V 16 08 19 52.6–.60 37.03N 143.67E 0 4.1,4.0 ¶16709998
NEIC V 16 08 19 54.1–.45 37.07N 143.69E 10 4.5b,4.0
ISCJB V 16 08 19 55.7–.40 37.14N–.02 143.46E–.04 33 4.2b,3.4s
JMA V 16 08 19 56.0–.20 37.15N 143.45E 48 4.1,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=14.2km az=108.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=8.3km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=22.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 16 11 14 17.4–1.5 38.93N 143.88E 0 3.6,3.4
¶17203744
IDC Error ellipse: s-maj=51.8km s-min=26.1km az=113.0.
ISC V 16 12 13 31.1–1.1 38.55N–.09 144.8E–.20 29 3.7b 10 6-63
IDC V 16 12 13 27.1–1.0 38.41N 144.84E 0 3.9,3.8 ¶603778231
ISCJB V 16 12 13 29.0–.91 38.41N–.09 144.8E–.20 29 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC V 16 13 56 11.9–1.1 36.41N–.05 142.16E–.08 19 3.7b 18 1-64
IDC V 16 13 56 09.5–1.1 36.25N 142.37E 0 3.6,3.5 ¶600615711
ISCJB V 16 13 56 10.8–.81 36.32N–.05 142.19E–.08 19 3.5b,3.5
JMA V 16 13 56 12.5–.30 36.38N 142.17E 66 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=20.6km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.5km az=164.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 16 19 10 23.7–.34 37.13N–.04 142.52E–.04 9 4.7b,4.2s 264 1-151
ISCJB V 16 19 10 22.8–.21 37.15N–.03 142.45E–.03 9 4.7b,4.2s ¶600615923
JMA V 16 19 10 22.2–.40 37.14N 142.50E 8 4.7,4.2s
NEIC V 16 19 10 25.5–2.2 37.11N 142.41E 17–14 4.8b,4.2s
IDC V 16 19 10 27.9–3.7 37.13N 142.35E 32–27 4.5,4.4
MOS V 16 19 10 27.2–1.1 37.38N 142.38E 32 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.0km az=158.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=128.0.
IDC Error ellipse: s-maj=13.9km s-min=11.0km az=119.0.
MOS Error ellipse: s-maj=7.3km s-min=4.9km az=104.4.
ISC V 16 21 51 58.9–.89 36.75N–.04 142.12E–.06 19 3.4b 24 1-57
NIED V 16 21 51 00 36.70N 142.30E 23 3.7W ¶17203775
ISCJB V 16 21 51 57.0–.74 36.70N–.04 142.36E–.07 19 3.5b
IDC V 16 21 51 56.6–1.3 36.64N 142.23E 0 3.7,3.7L
JMA V 16 21 51 57.3–.30 36.74N 142.29E 16 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ22.00000°,λ87.00000°. NP2:ϕ_s28.00000°,δ68.00000°,λ91.00000°. $M_0$4.53000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.4km az=173.5.
IDC Error ellipse: s-maj=35.1km s-min=20.8km az=113.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 16 23 11 51.9–2.0 36.98N–.09 142.4E–.10 9 3.7b 12 1-57
NIED V 16 23 11 00 37.00N 142.30E 14 3.4W ¶17203781
IDC V 16 23 11 53.8–2.2 36.56N 142.67E 0 3.6,3.5
JMA V 16 23 11 54.9–.20 37.01N 142.31E 5–2 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ34.00000°,λ-84.00000°. NP2:ϕ_s217.00000°,δ57.00000°,λ-94.00000°. $M_0$1.61000×10^{14}
IDC Error ellipse: s-maj=51.6km s-min=27.2km az=57.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 17 01 48 19.3–.30 37.40N 142.48E 6–4 3.5
¶600616144
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 17 06 47 10.9–1.1 36.74N–.06 142.18E–.07 19 3.5b 19 1-64
NIED V 17 06 47 00 36.70N 142.30E 20 3.7W ¶17203794
ISCJB V 17 06 47 09.0–.84 36.69N–.05 142.40E–.07 19 3.4b
JMA V 17 06 47 09.3–.20 36.70N 142.32E 18 3.6
IDC V 17 06 47 11.8–1.2 37.43N 142.00E 0 3.7L,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ24.00000°,λ76.00000°. NP2:ϕ_s26.00000°,δ67.00000°,λ96.00000°. $M_0$4.50000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.3km az=2.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=24.3km az=130.0.
ISC V 17 08 21 48.0–.87 35.37N–.07 142.32E–.08 35 3.8b 28 1-91
IDC V 17 08 21 42.4–1.1 35.25N 142.38E 0 3.9,3.8b ¶17203804
JMA V 17 08 21 44.2–.30 35.39N 142.44E 60 3.2,3.8b
ISCJB V 17 08 21 46.0–.70 35.39N–.05 142.33E–.06 35 3.8b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC V 17 08 27 56.2–1.2 35.37N–.05 142.34E–.09 35 3.8b 22 1-56
IDC V 17 08 27 51.6–1.5 35.21N 142.39E 0 3.7,3.6b ¶17203807
JMA V 17 08 27 53.6–.40 35.41N 142.43E 43 3.0,3.6b
ISCJB V 17 08 27 54.6–.93 35.37N–.04 142.34E–.09 35 3.7b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC V 17 08 58 45.5–1.3 37.83N–.06 144.44E–.08 35 37 3-62
NIED V 17 08 58 00 37.90N 144.30E 11 3.5W ¶17203810
IDC V 17 08 58 39.6–2.4 37.32N 144.96E 0 3.8,3.7
ISCJB V 17 08 58 45.1–.82 37.94N–.04 144.40E–.06 33 3.3b,3.7
JMA V 17 08 58 45.5–.20 37.88N 144.35E 41 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ25.00000°,λ-87.00000°. NP2:ϕ_s182.00000°,δ65.00000°,λ-91.00000°. $M_0$2.32000×10^{14}
IDC Error ellipse: s-maj=98.5km s-min=26.4km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.0km az=37.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 17 09 40 06.2–.20 39.05N 143.25E 7–2 3.5
NIED V 17 09 40 00 39.10N 143.20E 5 3.4W ¶600616397
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ78.00000°,λ-9.00000°. NP2:ϕ_s286.00000°,δ81.00000°,λ-168.00000°. $M_0$1.51000×10^{14}
JMA V 17 10 14 25.3–.20 37.39N 142.18E 10–2 3.5
NIED V 17 10 14 00 37.40N 142.20E 14 3.5W ¶600616423
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ45.00000°,λ-124.00000°. NP2:ϕ_s265.00000°,δ54.00000°,λ-61.00000°. $M_0$1.80000×10^{14}
ISC V 17 12 16 32.4–.51 38.68N–.04 143.95E–.06 29–3 4.0b 88 2-145
NIED V 17 12 16 00 38.80N 143.90E 5 4.2W ¶16560089
ISCJB V 17 12 16 29.1–1.4 38.67N–.03 143.97E–.04 20–10 4.3s,4.1b
NEIC V 17 12 16 29.4–.30 38.66N 144.05E 10 4.5b,4.1b
JMA V 17 12 16 31.6–.20 38.75N 143.94E 39 4.3,4.1b
IDC V 17 12 16 34.1–.52 38.67N 143.89E 42–4 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ32.00000°,λ-54.00000°. NP2:ϕ_s348.00000°,δ65.00000°,λ-110.00000°. $M_0$2.56000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.1km az=32.8.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.9km az=128.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=11.4km az=120.0.
ISC V 17 13 31 49.9–.51 37.92N–.04 143.97E–.05 28–2 4.3b,3.4s 107 2-81
NIED V 17 13 31 00 38.00N 143.90E 5 4.3W,3.4s ¶16527336
NEIC V 17 13 31 47.6–3.2 37.92N 143.91E 10–20 4.6b,3.4s
JMA V 17 13 31 48.9–.20 38.01N 143.85E 41 4.7,3.4s
IDC V 17 13 31 51.6–.53 37.88N 143.92E 38–4 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ38.00000°,λ-169.00000°. NP2:ϕ_s230.00000°,δ83.00000°,λ-52.00000°. $M_0$3.58000×10^{15}
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=5.6km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=10.8km az=108.0.
ISC V 17 13 54 53.1–2.5 39.59N–.06 143.62E–.08 3–14 3.7b 25 1-60
NIED V 17 13 54 00 39.70N 143.70E 26 3.7W ¶17203822
IDC V 17 13 54 54.0–1.6 39.57N 143.61E 0 3.7,3.7
JMA V 17 13 54 55.0–.10 39.67N 143.65E 34 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ34.00000°,λ91.00000°. NP2:ϕ_s31.00000°,δ56.00000°,λ89.00000°. $M_0$4.34000×10^{14}
IDC Error ellipse: s-maj=38.6km s-min=20.5km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 17 18 17 13.6–.20 38.82N 144.07E 20 3.3
¶600616691
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 17 20 37 18.8–.64 37.48N–.05 144.49E–.07 35 4.2b 71 3-81
NIED V 17 20 37 00 37.60N 144.40E 5 3.7W ¶16710129
IDC V 17 20 37 13.3–.82 37.38N 144.61E 0 4.0,3.9
ISCJB V 17 20 37 16.8–.38 37.48N–.04 144.47E–.04 33 4.3b,2.8s
JMA V 17 20 37 18.0–.20 37.62N 144.40E 40 4.3,2.8s
NEIC V 17 20 37 18.5–.43 37.40N 144.58E 35 4.6b,2.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ31.00000°,λ-90.00000°. NP2:ϕ_s230.00000°,δ59.00000°,λ-90.00000°. $M_0$4.03000×10^{14}
IDC Error ellipse: s-maj=24.2km s-min=17.8km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.0km az=0.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.4km az=145.0.
ISC V 17 20 45 33.6–.88 39.20N–.06 143.35E–.08 20–8 3.9b 59 1-82
NIED V 17 20 45 00 39.10N 143.40E 11 3.7W ¶16710130
IDC V 17 20 45 29.7–1.1 39.05N 143.44E 0 3.9,3.8
ISCJB V 17 20 45 33.6–.92 39.11N–.04 143.39E–.07 36–8 3.9b,3.5s
NEIC V 17 20 45 33.9–2.9 39.12N 143.32E 24–22 4.2b,3.5s
JMA V 17 20 45 33.2–.10 39.14N 143.35E 29–4 3.7,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s223.00000°,δ29.00000°,λ-120.00000°. NP2:ϕ_s77.00000°,δ65.00000°,λ-74.00000°. $M_0$4.16000×10^{14}
IDC Error ellipse: s-maj=25.2km s-min=18.4km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=7.4km az=3.8.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=8.3km az=127.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 17 20 54 18.3–.47 36.29N–.05 142.63E–.06 15 4.2b,3.3s 89 2-146
NIED V 17 20 54 00 36.40N 142.40E 11 3.9W,3.3s ¶16529245
ISCJB V 17 20 54 16.9–.32 36.25N–.04 142.58E–.04 15 4.2b,3.2s
IDC V 17 20 54 16.1–.62 36.26N 142.65E 0 4.1,4.0
JMA V 17 20 54 20.4–.20 36.38N 142.37E 77 3.7,4.0
NEIC V 17 20 54 21.6–.36 36.31N 142.55E 35 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ26.00000°,λ-56.00000°. NP2:ϕ_s153.00000°,δ69.00000°,λ-105.00000°. $M_0$9.04000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.4km az=146.4.
IDC Error ellipse: s-maj=16.9km s-min=13.9km az=129.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.6km az=152.0.
ISC V 17 22 15 59.0–2.0 37.53N–.04 143.48E–.05 15–12 4.7b,3.6s 106 2-143
NIED V 17 22 15 00 37.50N 143.50E 20 4.4W,3.6s ¶16527342
IDC V 17 22 15 56.0–.71 37.42N 143.67E 0 4.4,4.4L
JMA V 17 22 15 59.0–.20 37.54N 143.46E 47 4.9,4.4L
ISCJB V 17 22 16 01.1–.51 37.47N–.03 143.32E–.04 33 4.6b,3.6s
NEIC V 17 22 16 07.2–.96 36.56N 142.98E 26–7 4.8b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s309.00000°,δ67.00000°,λ-173.00000°. NP2:ϕ_s217.00000°,δ84.00000°,λ-23.00000°. $M_0$5.27000×10^{15}
IDC Error ellipse: s-maj=19.4km s-min=13.8km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=8.2.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.0km az=157.0.
ISC V 17 22 25 34.7–4.3 37.49N–.05 143.52E–.07 16–28 4.0b 55 2-91
IDC V 17 22 25 32.2–.95 37.36N 143.66E 0 4.3L,4.0 ¶16560093
JMA V 17 22 25 35.8–.20 37.52N 143.45E 45 4.2,4.0
NEIC V 17 22 25 37.5–.47 37.47N 143.61E 35 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=23.9km s-min=16.5km az=107.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.8km az=139.0.
ISC V 18 00 25 03.5–.71 37.98N–.07 144.15E–.06 35 3.9b,3.1s 51 2-88
IDC V 18 00 24 57.9–.78 37.86N 144.33E 0 4.0,3.8L ¶16710145
ISCJB V 18 00 25 01.3–.44 37.94N–.05 144.13E–.04 33 4.0b,3.1s

JMA V 18 00 25 01.0–.20 37.98N 144.08E 33 4.0,3.1s
NEIC V 18 00 25 03.1–.34 37.89N 144.27E 35 4.5b,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=17.2km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=178.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=151.0.
ISC V 18 02 04 16.7–1.3 37.97N–.06 144.17E–.09 35 3.7b 28 2-62
IDC V 18 02 04 12.1–2.6 37.91N 144.34E 0 3.9,3.7 **¶17203848**
ISCJB V 18 02 04 15.6–.87 37.94N–.05 144.10E–.06 33 3.8b,3.0s
JMA V 18 02 04 16.8–.30 37.92N 144.01E 51 4.0,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=69.4km s-min=32.4km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.8km az=9.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 18 09 01 47.1–1.3 36.18N–.05 142.1E–.10 23 3.5b 21 1-60
ISCJB V 18 09 01 44.9–.90 36.15N–.05 142.14E–.08 23 3.4b **¶17203868**
IDC V 18 09 01 44.6–2.0 36.02N 142.04E 0 3.5,3.5L
JMA V 18 09 01 46.0–.30 36.20N 142.08E 74–5 3.2,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.4km az=8.9.
IDC Error ellipse: s-maj=47.0km s-min=23.1km az=68.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA V 18 10 13 42.6–.20 38.23N 144.12E 39 3.7
NIED V 18 10 13 00 38.20N 144.10E 5 3.5W **¶600617118**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ40.00000°,λ-95.00000°. NP2:ϕ_s9.00000°,δ50.00000°,λ-86.00000°. $M_0$2.21000×10^{14}
ISC V 18 11 12 24.5–2.8 34.89N–.05 142.80E–.07 8–16 3.5b 29 2-75
IDC V 18 11 12 23.9–1.3 34.85N 142.86E 0 3.8,3.6L **¶17203874**
JMA V 18 11 12 27.3–.30 34.97N 142.85E 54 3.4,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=30.1km s-min=26.6km az=150.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 18 11 30 55.5–.20 37.80N 142.06E 31–3 3.6
¶600617153
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 18 13 14 39.9–1.9 35.30N–.05 142.36E–.06 1–12 3.8b,3.4s 51 1-91
NIED V 18 13 14 00 35.40N 142.50E 5 3.9W,3.4s **¶16587334**
IDC V 18 13 14 39.9–.67 35.25N 142.38E 0 3.9,3.9
ISCJB V 18 13 14 40.8–1.3 35.31N–.04 142.38E–.05 19–10 3.9b,3.4s
JMA V 18 13 14 41.4–.20 35.38N 142.46E 58 3.6,3.4s
NEIC V 18 13 14 44.9–.59 35.30N 142.32E 35 4.4b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ24.00000°,λ-99.00000°. NP2:ϕ_s38.00000°,δ66.00000°,λ-86.00000°. $M_0$8.13000×10^{14}
IDC Error ellipse: s-maj=19.0km s-min=12.6km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=6.8km az=173.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=10.0km az=94.0.
ISC V 18 15 29 37.5–.97 37.54N–.05 142.62E–.07 21 3.4b 26 1-77
NIED V 18 15 29 00 37.50N 142.60E 14 3.4W **¶17203887**
JMA V 18 15 29 34.1–.10 37.52N 142.60E 0 3.8
IDC V 18 15 29 35.0–1.0 37.41N 142.73E 0 3.6,3.4
ISCJB V 18 15 29 35.3–.73 37.48N–.05 142.72E–.06 21 4.3s,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ44.00000°,λ-107.00000°. NP2:ϕ_s236.00000°,δ49.00000°,λ-74.00000°. $M_0$1.26000×10^{14}
ISCJB Event type ke.
ISC V 18 15 44 13.3–.93 37.46N–.05 142.85E–.08 24 3.6b 28 2-61
NIED V 18 15 44 00 37.50N 142.70E 17 3.7W **¶600617318**
IDC V 18 15 44 10.2–1.1 37.40N 142.96E 0 3.9,3.9
ISCJB V 18 15 44 11.5–.68 37.40N–.04 142.85E–.06 24 3.7b,3.6s
JMA V 18 15 44 13.8–.20 37.50N 142.68E 23 4.0,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ20.00000°,λ-38.00000°. NP2:ϕ_s228.00000°,δ78.00000°,λ-106.00000°. $M_0$3.92000×10^{14}
IDC Error ellipse: s-maj=27.8km s-min=19.3km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=6.2km az=12.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 18 16 09 20.3–4.1 39.83N–.05 143.34E–.08 12–25 3.8b 40 1-72
NIED V 18 16 09 00 39.90N 143.40E 20 3.9W **¶17203889**
JMA V 18 16 09 19.8–.30 39.86N 143.38E 17–4 4.0
ISCJB V 18 16 09 20.1–1.7 39.74N–.04 143.50E–.06 28–13 3.8b,3.2s
IDC V 18 16 09 23.4–3.4 39.76N 143.32E 36–28 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ23.00000°,λ64.00000°. NP2:ϕ_s37.00000°,δ70.00000°,λ100.00000°. $M_0$6.98000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.1km az=32.0.
IDC Error ellipse: s-maj=22.8km s-min=14.9km az=100.0.
ISC V 18 16 38 21.2–.66 40.16N–.05 144.44E–.06 34 3.8b 51 2-86
NIED V 18 16 38 00 40.20N 144.30E 5 3.9W **¶17203890**
IDC V 18 16 38 16.1–.67 40.06N 144.49E 0 3.9,3.8
ISCJB V 18 16 38 19.5–.47 40.17N–.03 144.37E–.04 34 3.8b,3.8
JMA V 18 16 38 19.7–.20 40.18N 144.32E 42 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ27.00000°,λ-83.00000°. NP2:ϕ_s177.00000°,δ63.00000°,λ-94.00000°. $M_0$8.14000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=15.1km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=35.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 18 16 56 53.5–.55 39.50N–.05 143.61E–.05 11 4.2b,3.5s 73 1-145
NIED V 18 16 56 00 39.50N 143.90E 17 4.2W,3.5s **¶16560096**
JMA V 18 16 56 48.8–.20 39.50N 143.88E 4 4.9,3.5s
ISCJB V 18 16 56 50.4–.38 39.39N–.03 143.81E–.04 11 4.2b,3.4s
IDC V 18 16 56 51.6–.61 39.43N 143.59E 0 4.2,4.1
NEIC V 18 16 56 57.0–.36 39.48N 143.53E 35 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s198.00000°,δ35.00000°,λ84.00000°. NP2:ϕ_s25.00000°,δ55.00000°,λ94.00000°. $M_0$2.54000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.2km az=136.2.
IDC Error ellipse: s-maj=15.2km s-min=12.0km az=124.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=124.0.
ISC V 18 17 15 55.0–.30 39.70N–.03 144.43E–.03 29–1 5.0b,4.0s 969 2-149
NIED V 18 17 15 00 39.80N 144.40E 8 4.7W,4.0s **¶16527351**
IDC V 18 17 15 50.3–.44 39.61N 144.46E 0 4.8,4.7
ISCJB V 18 17 15 51.3–.84 39.68N–.02 144.36E–.02 12–5 4.9b,4.1s
JMA V 18 17 15 53.5–.20 39.77N 144.37E 43 4.6,4.1s
MOS V 18 17 15 55.0–.89 39.80N 144.30E 33 5.1b,4.1s
GCMT V 18 17 15 56.1–.40 39.59N 144.41E 16–1 4.8W,4.1s
BJI V 18 17 15 56.0 39.81N 144.07E 31 4.9b,4.8b
NEIC V 18 17 15 56.1–.55 39.66N 144.33E 34–3 5.0b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ25.00000°,λ-80.00000°. NP2:ϕ_s152.00000°,δ65.00000°,λ-95.00000°. $M_0$1.27000×10^{16}
IDC Error ellipse: s-maj=11.7km s-min=10.2km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.1km az=162.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.1km az=102.2.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c11; s63,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.46±.17 $M_{\theta\theta}$-0.18±.10; $M_{\phi\phi}$1.64±.11; $M_{r\theta}$-1.11±.35; $M_{\theta\phi}$-0.74±.06; $M_{\phi r}$1.10±.27; Best double couple: NP1:ϕ_s142.00000°,δ68.00000°,λ-109.00000°. NP2:ϕ_s3.00000°,δ29.00000°,λ-52.00000°. Principal axes: T 2.4310,Plg21.0000°,Azm245.0000°; N -0.2290,Plg17.0000°,Azm149.0000°; P -2.2050,Plg63.0000°,Azm22.0000° $M_0$2.31800×10^{16}
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.2km az=150.0.
ISC V 18 17 43 51.5–1.1 37.68N–.05 144.09E–.08 35 34 2-62
NIED V 18 17 43 00 37.70N 143.90E 8 3.5W **¶17203892**
IDC V 18 17 43 48.9–2.0 37.54N 144.13E 0 4.0,3.9
ISCJB V 18 17 43 50.8–.71 37.68N–.04 144.05E–.06 33 3.8b,3.9
JMA V 18 17 43 53.4–.20 37.74N 143.88E 44 3.5,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s337.00000°,δ55.00000°,λ-164.00000°. NP2:ϕ_s237.00000°,δ77.00000°,λ-37.00000°. $M_0$2.18000×10^{14}
IDC Error ellipse: s-maj=48.7km s-min=29.6km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.7km az=18.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC V 18 18 39 37.9–4.5 36.19N 143.45E 0 3.7,3.6
¶17203895
IDC Error ellipse: s-maj=86.9km s-min=33.7km az=25.0.
ISC V 18 19 57 38.7–1.2 37.80N–.06 143.78E–.10 35 3.5b 29 2-58
IDC V 18 19 57 33.1–1.3 37.56N 144.22E 0 3.7,3.6 **¶17203906**
ISCJB V 18 19 57 38.6–.91 37.81N–.05 143.65E–.07 33 3.5b,3.6
JMA V 18 19 57 40.3–.20 37.88N 143.54E 46 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.7km s-min=22.8km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.9km az=41.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 18 22 13 15.4–1.1 35.79N–.06 142.98E–.09 35 3.8b 25 2-78
IDC V 18 22 13 10.7–1.1 35.72N 143.08E 0 3.8,3.7 **¶17203913**
ISCJB V 18 22 13 14.0–.77 35.78N–.05 142.94E–.06 33 3.7b,3.7
JMA V 18 22 13 16.1–.30 35.91N 142.79E 86 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=22.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=7.1km az=138.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 18 23 26 49.6–.79 35.38N–.07 142.30E–.08 35 3.8b 25 1-91
IDC V 18 23 26 44.2–.83 35.29N 142.41E 0 4.0,3.8 **¶17203918**
JMA V 18 23 26 46.0–.40 35.36N 142.44E 57 3.4,3.8
ISCJB V 18 23 26 47.8–.62 35.36N–.06 142.30E–.06 35 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 00 52 24.0–1.7 36.74N–.07 144.4E–.10 35 21 3-57
NIED V 19 00 52 00 36.70N 144.30E 8 3.7W **¶17203921**
IDC V 19 00 52 22.9–3.4 36.12N 144.21E 0 3.8,3.8L
ISCJB V 19 00 52 23.5–1.1 36.69N–.06 144.29E–.08 33 3.6b,3.2s
JMA V 19 00 52 24.3–.30 36.74N 144.26E 52 3.9,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ27.00000°,λ-95.00000°. NP2:ϕ_s197.00000°,δ63.00000°,λ-87.00000°. $M_0$4.29000×10^{14}
IDC Error ellipse: s-maj=90.6km s-min=34.7km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.7km az=136.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 19 01 33 44.1–.62 37.10N–.05 143.49E–.06 35 4.1b 56 2-145
NIED V 19 01 33 00 37.10N 143.50E 5 4.1W **¶16580996**
IDC V 19 01 33 38.6–.59 36.97N 143.65E 0 4.3,4.1
NEIC V 19 01 33 39.8–.38 36.96N 143.64E 10 4.4b,4.1
ISCJB V 19 01 33 41.7–.43 37.08N–.03 143.44E–.04 33 4.1b,3.3s
JMA V 19 01 33 41.5–.20 37.10N 143.45E 52 4.1,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ20.00000°,λ-76.00000°. NP2:ϕ_s196.00000°,δ71.00000°,λ-95.00000°. $M_0$1.49000×10^{15}
IDC Error ellipse: s-maj=16.2km s-min=14.8km az=128.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=7.0km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=151.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 19 01 43 08.6–.20 38.37N 144.46E 32 3.5
¶600617665
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 19 02 37 30.6–.20 38.39N 143.98E 33 4.1
¶600617690
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 19 03 45 25.5–2.5 39.40N–.08 143.0E–.10 15–12 15 1-61
NIED V 19 03 45 00 39.30N 143.00E 17 3.6W **¶17203941**
JMA V 19 03 45 25.8–.10 39.32N 143.00E 18–2 3.6
IDC V 19 03 45 28.5–1.4 38.31N 143.55E 0 3.7,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s59.00000°,δ17.00000°,λ-96.00000°. NP2:ϕ_s245.00000°,δ73.00000°,λ-88.00000°. $M_0$2.60000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=64.8km s-min=28.8km az=126.0.
JMA V 19 05 13 09.3–.20 37.73N 142.01E 34–3 3.5
¶600617757
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 19 06 13 18.8–.20 38.12N 143.80E 0 3.7
¶600617776
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 19 09 12 46.6–.30 37.26N–.03 142.67E–.03 28–1 5.3b,5.2s 876 1-154
NIED V 19 09 12 00 37.20N 142.80E 17 5.2W,5.2s **¶16528398**
IDC V 19 09 12 42.1–.38 37.13N 142.86E 0 4.9,4.9
ISCJB V 19 09 12 43.4–.72 37.14N–.02 142.71E–.02 15–5 5.2b,5.2s
JMA V 19 09 12 43.7–.20 37.17N 142.85E 42 5.5,5.2s
BJI V 19 09 12 45.3 37.32N 142.51E 22 5.4s,5.3
GCMT V 19 09 12 48.5–.20 37.24N 142.76E 15 5.3W,5.3
MOS V 19 09 12 48.2–1.0 37.64N 142.62E 33 5.2b,5.2s
NEIC V 19 09 12 48.5–.52 37.12N 142.67E 40–4 5.4b,5.2s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s324.00000°,δ46.00000°,λ-159.00000°. NP2:ϕ_s219.00000°,δ75.00000°,λ-46.00000°. $M_0$7.59000×10^{16}
IDC Error ellipse: s-maj=12.0km s-min=9.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=156.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c87; s100,c166; Duration: 1$\uparrow$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.09±.01 $M_{\theta\theta}$-0.35±.01; $M_{\phi\phi}$0.43±.01; $M_{r\theta}$0.94±.04; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$0.69±.04; Best double couple: NP1:ϕ_s233.00000°,δ88.00000°,λ-70.00000°. NP2:ϕ_s330.00000°,δ20.00000°,λ-173.00000°. Principal axes: T 1.2510,Plg40.0000°,Azm305.0000°; N -0.0110,Plg20.0000°,Azm53.0000°; P -1.2410,Plg44.0000°,Azm163.0000° $M_0$1.24600×10^{17}
MOS Error ellipse: s-maj=6.2km s-min=4.2km az=95.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=135.0. Felt at Ichinoseki. Recorded [2 JMA] in Fukushima and Miyagi.
JMA V 19 09 17 23.7–.30 36.08N 143.15E 88 3.9
¶600617875
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 19 11 59 37.3–4.1 37.18N–.04 142.95E–.07 14–27 3.6b 24 2-61
NIED V 19 11 59 00 37.20N 142.90E 17 3.7W **¶17203966**
IDC V 19 11 59 36.2–1.2 37.03N 143.07E 0 3.9,3.8
ISCJB V 19 11 59 37.2–1.9 37.16N–.05 142.90E–.06 24–17 3.7b,3.8
JMA V 19 11 59 37.6–.30 37.20N 142.88E 33 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ42.00000°,λ-151.00000°. NP2:ϕ_s222.00000°,δ71.00000°,λ-51.00000°. $M_0$3.78000×10^{14}
IDC Error ellipse: s-maj=25.6km s-min=20.3km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=7.8km az=175.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 19 12 42 18.4–1.1 38.02N–.05 143.99E–.09 35 3.5b 34 2-84
NIED V 19 12 42 00 38.10N 143.90E 5 3.5W **¶17203970**
IDC V 19 12 42 13.0–1.8 37.94N 144.36E 0 3.9,3.8L
ISCJB V 19 12 42 16.1–.75 38.05N–.04 143.99E–.06 33 4.0s,3.6b
JMA V 19 12 42 16.7–.10 38.12N 143.92E 30 3.9,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s4.00000°,δ21.00000°,λ-43.00000°. NP2:ϕ_s134.00000°,δ76.00000°,λ-106.00000°. $M_0$2.11000×10^{14}
IDC Error ellipse: s-maj=46.2km s-min=20.5km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.6km az=9.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 19 17 06 23.4–1.0 39.81N–.05 144.45E–.07 34 3.6b 36 2-64
IDC V 19 17 06 18.3–1.2 39.57N 144.73E 0 3.6,3.5 **¶17203981**

ISCJB V 19 17 06 21.5–.68 39.84N–.03 144.42E–.06 34 3.4b,3.5
JMA V 19 17 06 21.5–.20 39.86N 144.36E 35 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=27.0km s-min=21.1km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.0km az=28.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 19 18 30 57.1–2.0 39.76N–.05 143.39E–.07 3–12 3.4b 28 1-60
IDC V 19 18 30 56.0–2.3 39.75N 143.62E 0 3.4b,3.4 **¶17203985**
JMA V 19 18 30 58.5–.30 39.77N 143.40E 11–3 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=56.9km s-min=24.9km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 19 19 03 30.1–.40 37.65N 143.85E 55 3.8
NIED V 19 19 03 00 37.70N 143.90E 5 3.6W **¶600618335**
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S3.00000°,δ20.00000°,λ-147.00000°. NP2:ϕ_S242.00000°,δ79.00000°,λ-73.00000°. $M_0$2.89000×10^{14}
ISC V 19 19 36 31.6–1.4 36.79N–.06 143.81E–.09 35 4.0b 32 2-68
NIED V 19 19 36 00 36.90N 143.70E 5 3.7W **¶17203990**
IDC V 19 19 36 29.2–1.7 36.47N 143.79E 0 3.9,3.8
ISCJB V 19 19 36 30.9–.80 36.69N–.05 143.70E–.06 33 3.9b,3.8
JMA V 19 19 36 31.4–.20 36.89N 143.68E 47 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S16.00000°,δ22.00000°,λ-74.00000°. NP2:ϕ_S180.00000°,δ69.00000°,λ-96.00000°. $M_0$3.45000×10^{14}
IDC Error ellipse: s-maj=32.2km s-min=28.4km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.2km az=38.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 19 20 38 20.5–1.2 39.64N–.06 143.59E–.08 11 3.7b 30 1-60
ISCJB V 19 20 38 18.7–.92 39.58N–.05 143.77E–.10 11 3.6b **¶16710326**
JMA V 19 20 38 18.3–.20 39.56N 143.75E 10 3.9
IDC V 19 20 38 19.4–2.2 39.61N 143.71E 0 3.6,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=4.3km az=26.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=52.4km s-min=23.1km az=80.0.
ISC V 20 00 10 12.2–.49 37.81N–.04 142.14E–.05 41–4 4.4b,3.7s 118 1-146
NIED V 20 00 10 00 37.80N 142.10E 38 4.3W,3.7s **¶16530710**
ISCJB V 20 00 10 09.8–.65 37.82N–.03 142.23E–.05 35–5 4.5b,3.8s
JMA V 20 00 10 10.7–.20 37.81N 142.06E 33–4 4.4,3.8s
IDC V 20 00 10 12.4–.50 37.80N 142.06E 42–4 4.1,4.0
NEIC V 20 00 10 12.6–.57 37.83N 142.24E 46–5 4.7b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S84.00000°,δ3.00000°,λ-60.00000°. NP2:ϕ_S234.00000°,δ87.00000°,λ-92.00000°. $M_0$2.72000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.7km az=26.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=9.6km az=94.0.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=3.9km az=124.0. Recorded [2 JMA] in Miyagi.
ISC V 20 00 33 14.3–1.7 34.96N–.08 142.9E–.10 35 14 2-59
IDC V 20 00 33 01.9–5.0 35.82N 144.18E 0 4.0,3.9 **¶17204000**
ISCJB V 20 00 33 12.6–1.1 34.96N–.06 142.87E–.09 33 3.8b,3.9
JMA V 20 00 33 12.8–.50 34.87N 142.84E 74 3.2,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=100.0km s-min=41.7km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=8.3km az=158.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
JMA V 20 00 45 46.0–.20 37.76N 142.06E 12 2.0
¶603241704
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 20 01 08 04.2–1.9 36.28N–.09 142.3E–.10 15 3.5b 11 1-56
JMA V 20 01 08 02.5–.20 36.28N 142.41E 85 2.9 **¶600618612**
IDC V 20 01 08 05.6–2.9 36.69N 142.10E 0 3.7,3.6b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=75.3km s-min=30.1km az=58.0.
ISC V 20 03 59 40.1–.94 38.29N–.06 144.61E–.07 29 3.7b 32 2-62
IDC V 20 03 59 35.4–.91 38.16N 144.76E 0 3.8,3.8L **¶17204013**
ISCJB V 20 03 59 38.2–.68 38.26N–.05 144.57E–.05 29 3.7b,3.8L
JMA V 20 03 59 40.2–.20 38.27N 144.45E 36 4.5,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=24.5km s-min=17.9km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.3km az=176.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 20 06 52 58.2–1.7 37.82N–.07 143.6E–.10 35 3.5b 18 2-62
ISCJB V 20 06 52 56.9–1.4 37.82N–.06 143.6E–.10 33 3.4b,2.8s **¶17204019**
JMA V 20 06 52 57.9–.50 37.90N 143.49E 29 3.0,2.8s
IDC V 20 06 52 59.8–1.2 36.77N 143.48E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.2km az=31.7.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=40.2km s-min=24.1km az=134.0.
JMA V 20 07 32 36.9–.40 39.34N 143.73E 35 3.8
¶600618774
JMA Error ellipse: s-maj=1.1km s-min=3.4km az=-1.0.
ISC V 20 08 57 23.8–1.5 37.60N–.05 144.4E–.10 35 3.8b 31 3-62
IDC V 20 08 57 20.2–2.0 37.32N 144.38E 0 3.9,3.7 **¶17204025**
ISCJB V 20 08 57 21.7–.86 37.68N–.04 144.42E–.06 33 3.8b,3.7
JMA V 20 08 57 24.2–.20 37.71N 144.28E 40 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=37.9km s-min=29.4km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.0km az=178.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 20 10 10 19.7–.67 38.09N–.05 144.57E–.07 35 3.8b 54 2-87
NIED V 20 10 10 00 38.20N 144.40E 8 3.9W **¶16710377**
IDC V 20 10 10 14.4–.67 38.05N 144.76E 0 4.0,3.9
NEIC V 20 10 10 16.1–.34 38.09N 144.74E 10 4.3b,3.9
ISCJB V 20 10 10 17.9–.45 38.12N–.04 144.58E–.04 33 3.9b,3.9
JMA V 20 10 10 18.9–.20 38.24N 144.43E 24 4.3,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S43.00000°,δ41.00000°,λ-50.00000°. NP2:ϕ_S176.00000°,δ60.00000°,λ-119.00000°. $M_0$7.17000×10^{14}
IDC Error ellipse: s-maj=18.0km s-min=16.3km az=126.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.8km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=166.5.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 20 10 32 16.5–1.1 37.08N–.05 142.39E–.06 9 22 1-61
NIED V 20 10 32 00 37.10N 142.50E 26 3.5W **¶17204030**
ISCJB V 20 10 32 15.5–.74 37.00N–.04 142.51E–.06 9 3.5b
JMA V 20 10 32 15.9–.30 37.07N 142.47E 8–4 3.5
IDC V 20 10 32 16.6–1.9 37.00N 142.67E 0 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S27.00000°,δ36.00000°,λ-94.00000°. NP2:ϕ_S213.00000°,δ55.00000°,λ-87.00000°. $M_0$1.76000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.9km az=144.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=46.5km s-min=29.3km az=88.0.
ISC V 20 15 59 16.4–.89 37.73N–.08 142.6E–.10 24 3.7b 13 4-63
IDC V 20 15 59 13.0–.91 37.69N 142.77E 0 3.7,3.6 **¶17204056**
ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=16.9km az=103.0.
ISC V 20 17 17 45.2–.71 37.18N–.07 143.97E–.07 35 4.1b 59 2-75
IDC V 20 17 17 39.7–.84 36.96N 144.06E 0 4.0,3.8 **¶16710415**
ISCJB V 20 17 17 42.6–.39 37.01N–.04 143.95E–.04 33 4.2b,3.8
NEIC V 20 17 17 44.2–.42 36.96N 144.12E 35 4.5b,3.8
JMA V 20 17 17 45.0–.30 37.22N 143.82E 39 4.0,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=17.2km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.8km az=10.7.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.9km az=110.0.

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 20 21 55 24.1–.40 37.36N 144.37E 48 3.6
¶600619421
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 21 01 36 46.5–.72 37.74N–.05 144.52E–.07 35 4.0b 53 3-88
IDC V 21 01 36 41.1–.77 37.52N 144.64E 0 3.9,3.9L **¶16601767**
NEIC V 21 01 36 41.9–4.6 37.65N 144.60E 3–28 4.2b,3.9L
ISCJB V 21 01 36 44.5–.45 37.67N–.04 144.47E–.04 33 3.9b,3.9L
JMA V 21 01 36 46.2–.30 37.69N 144.37E 51 4.2,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=16.8km az=121.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=7.5km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=174.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 21 08 26 49.2–1.8 37.69N–.06 142.0E–.10 24 12 1-63
IDC V 21 08 26 43.5–1.6 37.86N 142.74E 0 3.5,3.3b **¶17204121**
ISCJB V 21 08 26 48.7–1.5 37.72N–.06 142.1E–.10 24 3.4b,3.3b
JMA V 21 08 26 49.4–.20 37.72N 142.09E 25–5 3.1,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=61.6km s-min=31.4km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=8.4km az=175.5.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 21 11 32 12.5–.80 38.05N–.05 144.49E–.08 35 3.6b 38 2-88
NIED V 21 11 32 00 38.10N 144.30E 5 3.8W **¶17204132**
IDC V 21 11 32 07.1–.76 37.82N 144.64E 0 3.8,3.7
ISCJB V 21 11 32 10.9–.60 38.03N–.05 144.47E–.05 33 3.6b,3.7
JMA V 21 11 32 11.8–.10 38.14N 144.35E 19 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S42.00000°,δ21.00000°,λ-80.00000°. NP2:ϕ_S212.00000°,δ69.00000°,λ-94.00000°. $M_0$6.35000×10^{14}
IDC Error ellipse: s-maj=22.0km s-min=16.8km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.6km az=165.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 21 11 45 12.6–.88 35.84N–.06 143.05E–.08 35 3.5b 22 2-90
IDC V 21 11 45 08.0–.90 35.73N 143.11E 0 3.7,3.5 **¶17204133**
ISCJB V 21 11 45 10.9–.72 35.86N–.06 143.03E–.06 33 3.5b,3.5
JMA V 21 11 45 12.4–.30 35.89N 142.85E 87 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=28.5km s-min=20.2km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.9km az=28.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 21 12 45 38.3–1.1 37.87N–.06 144.59E–.09 35 3.5b 31 3-75
NIED V 21 12 45 00 37.90N 144.50E 5 3.6W **¶17204136**
IDC V 21 12 45 33.2–1.0 37.77N 144.83E 0 3.8,3.7
ISCJB V 21 12 45 36.0–.68 37.88N–.04 144.64E–.06 33 3.5b,3.7
JMA V 21 12 45 37.8–.20 37.93N 144.52E 36 4.1,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S350.00000°,δ24.00000°,λ-105.00000°. NP2:ϕ_S187.00000°,δ67.00000°,λ-83.00000°. $M_0$3.16000×10^{14}
IDC Error ellipse: s-maj=31.8km s-min=20.3km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.7km az=136.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 21 13 56 14.4–4.5 34.84N–.05 142.80E–.06 3–28 3.9b 61 2-147
NIED V 21 13 56 00 34.80N 142.80E 8 3.9W **¶16710513**
IDC V 21 13 56 14.2–.62 34.69N 142.83E 0 4.1,3.9
ISCJB V 21 13 56 15.2–1.5 34.88N–.04 142.75E–.04 17–11 3.9b,3.4s
JMA V 21 13 56 16.0–.40 34.82N 142.80E 37 3.9,3.4s
NEIC V 21 13 56 19.0–.48 34.61N 142.67E 35 4.3b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S355.00000°,δ27.00000°,λ-125.00000°. NP2:ϕ_S213.00000°,δ68.00000°,λ-74.00000°. $M_0$6.97000×10^{14}
IDC Error ellipse: s-maj=17.4km s-min=15.0km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.8km az=6.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=10.4km az=225.0.
JMA V 21 14 21 48.2–.10 38.35N 144.43E 36 3.5
¶600619957
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 21 14 38 57.8–.94 34.81N–.06 142.77E–.07 35 3.8b 36 1-147
IDC V 21 14 38 54.8–.87 34.50N 142.84E 0 4.0,4.0L **¶17204143**
ISCJB V 21 14 38 55.5–.81 34.89N–.05 142.79E–.06 33 3.8b,4.0L
JMA V 21 14 38 55.5–.40 34.81N 142.79E 50 3.6,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=21.8km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.6km az=165.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 21 16 11 04.8–.30 38.00N 144.35E 6 3.5
¶600620034
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA V 21 16 49 44.6–.30 36.67N 142.49E 0 3.2
¶600620065
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 21 16 57 08.9–.88 37.94N–.08 144.55E–.07 35 3.7b 23 3-75
NIED V 21 16 57 00 37.90N 144.50E 5 3.8W **¶17204149**
IDC V 21 16 57 03.5–.79 37.82N 144.52E 0 3.8,3.7
ISCJB V 21 16 57 06.3–.61 37.81N–.06 144.52E–.05 33 3.7b,3.7
JMA V 21 16 57 07.8–.30 37.87N 144.45E 44 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S43.00000°,δ23.00000°,λ-85.00000°. NP2:ϕ_S217.00000°,δ67.00000°,λ-92.00000°. $M_0$6.63000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=17.2km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.7km az=11.4.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 21 17 05 58.2–1.3 38.19N–.06 144.17E–.10 35 3.4b 26 2-62
NIED V 21 17 05 00 38.30N 143.90E 5 3.5W **¶17204150**
IDC V 21 17 05 53.5–1.8 38.09N 144.40E 0 3.6,3.5
ISCJB V 21 17 05 56.6–.84 38.16N–.06 144.07E–.07 33 3.4b,3.5
JMA V 21 17 05 57.3–.20 38.28N 143.92E 21 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S19.00000°,δ30.00000°,λ-87.00000°. NP2:ϕ_S196.00000°,δ60.00000°,λ-92.00000°. $M_0$2.17000×10^{14}
IDC Error ellipse: s-maj=46.7km s-min=21.1km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.0km az=135.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 21 22 26 07.2–1.5 37.85N–.06 144.3E–.10 35 3.8b 30 2-62
IDC V 21 22 26 01.4–1.6 37.75N 144.55E 0 3.8,3.8 **¶17204169**
ISCJB V 21 22 26 05.0–.83 37.85N–.06 144.36E–.06 33 3.7b,3.8
JMA V 21 22 26 06.3–.20 37.94N 144.16E 21 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=38.1km s-min=21.3km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.9km az=9.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 21 23 12 08.0–1.6 36.99N–.04 142.43E–.05 3–10 4.2b 114 1-146
JMA V 21 23 12 06.3–.30 37.11N 142.45E 1–3 4.5 **¶16535815**
NEIC V 21 23 12 10.1–2.2 37.00N 142.43E 14–13 4.7b
MOS V 21 23 12 12.2–.88 36.99N 142.38E 44 4.4b
IDC V 21 23 12 14.8–1.9 37.05N 142.31E 46–17 4.1,4.0
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.2km az=127.0.
MOS Error ellipse: s-maj=10.4km s-min=7.2km az=125.7.
IDC Error ellipse: s-maj=13.8km s-min=12.9km az=118.0.
ISC V 22 00 57 52.8–2.1 37.01N–.05 143.72E–.05 28–16 4.1b 56 2-89
NIED V 22 00 57 00 37.00N 143.70E 5 4.0W **¶16560117**
IDC V 22 00 57 47.8–1.3 36.93N 144.01E 0 4.0,3.9
ISCJB V 22 00 57 51.1–1.4 36.99N–.04 143.70E–.04 31–11 3.9b,3.6s
NEIC V 22 00 57 52.0–.70 36.80N 143.95E 35 4.3b,3.6s
JMA V 22 00 57 52.0–.20 36.98N 143.70E 57 4.3,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S77.00000°,δ34.00000°,λ-26.00000°. NP2:ϕ_S189.00000°,δ76.00000°,λ-121.00000°. $M_0$1.09000×10^{15}

IDC Error ellipse: s-maj=30.9km s-min=17.4km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.8km az=149.6.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.6km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 22 01 16 18.8–1.1 37.12N–.05 143.43E–.08 35 3.5b 33 2-61
IDC V 22 01 16 13.2–1.2 37.03N 143.75E 0 3.8,3.6 **¶17204171**
ISCJB V 22 01 16 16.6–.72 37.08N–.04 143.44E–.06 33 3.7b,3.6
JMA V 22 01 16 17.1–.20 37.11N 143.42E 47 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.0km s-min=22.3km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.3km az=18.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 22 03 25 04.1–2.5 37.06N–.08 142.50E–.10 7–13 3.8b 27 1-75
NIED V 22 03 25 00 37.30N 142.40E 11 3.6W **¶17204179**
IDC V 22 03 25 02.9–1.9 36.85N 142.44E 0 3.7b,3.7
JMA V 22 03 25 05.8–.30 37.28N 142.44E 4–4 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s147.00000°,δ29.00000°,λ-157.00000°. NP2:ϕ_s36.00000°,δ79.00000°,λ-63.00000°. $M_0$2.38000×10^{14}
IDC Error ellipse: s-maj=51.0km s-min=30.0km az=68.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 22 04 04 35.0–.57 34.89N–.04 142.99E–.05 26–3 4.4b,3.6s 184 2-147
NIED V 22 04 04 00 34.90N 142.90E 5 4.4W,3.6s **¶16532367**
ISCJB V 22 04 04 31.6–1.1 34.82N–.04 142.83E–.03 10–6 4.4b,3.7s
IDC V 22 04 04 31.2–.57 34.85N 142.91E 0 4.3,4.2
JMA V 22 04 04 33.9–.40 34.88N 142.87E 63 4.4,4.2
NEIC V 22 04 04 35.4–1.9 34.87N 142.82E 24–13 4.6b,4.2
MOS V 22 04 04 36.6–.95 35.30N 142.77E 29 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ31.00000°,λ-73.00000°. NP2:ϕ_s184.00000°,δ61.00000°,λ-100.00000°. $M_0$4.70000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=175.4.
IDC Error ellipse: s-maj=15.1km s-min=13.5km az=113.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=104.0.
MOS Error ellipse: s-maj=10.6km s-min=6.3km az=115.4.
ISC V 22 04 06 54.1–.56 34.73N–.05 142.67E–.07 35 4.0b 47 2-147
IDC V 22 04 06 49.2–.64 34.71N 142.80E 0 4.2L,4.1 **¶16617320**
ISCJB V 22 04 06 52.0–.43 34.68N–.05 142.68E–.05 35 4.0b,4.1
JMA V 22 04 06 51.5–.20 34.87N 142.76E 90 3.7,4.1
NEIC V 22 04 06 54.1–.38 34.68N 142.67E 35 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=15.6km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.5km az=12.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.6km az=65.0.
ISC V 22 04 29 56.0–1.2 34.90N–.08 142.80E–.09 35 3.8b 21 2-59
IDC V 22 04 29 51.2–1.4 34.80N 142.87E 0 3.7,3.7 **¶17204182**
ISCJB V 22 04 29 53.9–.89 34.91N–.07 142.84E–.07 33 3.7b,3.7
JMA V 22 04 29 54.8–.30 34.86N 142.76E 66 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=45.9km s-min=21.1km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=8.3km az=22.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 22 04 42 34.2–1.1 34.76N–.07 142.87E–.09 35 3.7b 22 2-75
IDC V 22 04 42 30.9–1.4 34.72N 142.81E 0 3.9,3.8 **¶17204183**
JMA V 22 04 42 32.9–.50 34.82N 142.88E 64 3.5,3.8
ISCJB V 22 04 42 33.8–.90 34.78N–.07 142.75E–.07 33 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC V 22 04 43 12.4–.98 34.75N 142.86E 0 3.9,3.7
¶17204186
IDC Error ellipse: s-maj=35.1km s-min=21.8km az=102.0.
ISC V 22 04 45 42.3–.41 34.98N–.05 142.72E–.05 42 4.4b,3.2s 171 1-153
NIED V 22 04 45 00 34.90N 142.70E 5 4.2W,3.2s **¶16532369**
IDC V 22 04 45 36.0–.54 34.82N 142.87E 0 4.3,4.2
NEIC V 22 04 45 37.5–2.6 34.79N 142.80E 7–16 4.6b,4.2
JMA V 22 04 45 40.0–.30 34.87N 142.72E 54 4.3,4.2
MOS V 22 04 45 40.7–1.2 34.79N 142.73E 41 4.6b,4.2
ISCJB V 22 04 45 41.1–.22 34.88N–.03 142.63E–.03 42 4.4b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ25.00000°,λ-122.00000°. NP2:ϕ_s230.00000°,δ69.00000°,λ-76.00000°. $M_0$2.22000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC V 22 05 07 34.5–1.5 34.98N–.08 142.9E–.10 35 15 2-59
IDC V 22 05 07 29.4–2.1 34.89N 143.05E 0 3.8,3.8 **¶17204190**
ISCJB V 22 05 07 32.3–.00 34.98N–.06 142.89E–.08 33 3.8b,2.7s
JMA V 22 05 07 33.5–.50 34.83N 142.80E 72 3.4,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=64.8km s-min=27.3km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.8km az=21.1.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
ISC V 22 05 45 39.4–1.3 37.64N–.05 143.62E–.08 35 26 2-62
ISCJB V 22 05 45 38.1–.88 37.61N–.04 143.57E–.06 33 4.0b **¶17204193**
JMA V 22 05 45 38.3–.20 37.67N 143.55E 45 3.4
IDC V 22 05 45 41.9–3.6 36.76N 143.31E 0 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.4km az=7.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=64.3km s-min=33.8km az=34.0.
ISC V 22 06 07 03.1–1.9 34.80N–.08 142.8E–.10 35 23 1-59
IDC V 22 06 06 59.4–3.6 34.76N 142.80E 0 3.7,3.7 **¶17204195**
NIED V 22 06 07 00 34.90N 142.80E 8 3.5W,3.7
ISCJB V 22 06 07 01.7–1.1 34.84N–.07 142.76E–.08 33 3.8b,3.7
JMA V 22 06 07 01.2–.50 34.91N 142.81E 26 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=70.1km s-min=34.2km az=47.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ44.00000°,λ-24.00000°. NP2:ϕ_s164.00000°,δ73.00000°,λ-131.00000°. $M_0$1.88000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=8.0km az=43.4.
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC V 22 06 49 39.6–.74 37.92N–.06 144.77E–.06 35 3.5b 37 3-87
NIED V 22 06 49 00 38.00N 144.60E 8 3.8W **¶17204199**
IDC V 22 06 49 34.2–.84 37.64N 145.00E 0 3.9,3.7
ISCJB V 22 06 49 37.9–.67 38.01N–.04 144.72E–.05 33 3.6b,3.7
JMA V 22 06 49 38.2–.20 37.96N 144.65E 40 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ24.00000°,λ-96.00000°. NP2:ϕ_s211.00000°,δ66.00000°,λ-87.00000°. $M_0$5.42000×10^{14}
IDC Error ellipse: s-maj=20.9km s-min=19.3km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.5km az=161.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 22 06 57 51.4–1.7 34.88N–.09 142.7E–.10 42 17 1-59
IDC V 22 06 57 40.8–12 35.43N 143.65E 0 3.9,3.8b **¶17204201**
ISCJB V 22 06 57 49.8–1.1 34.88N–.07 142.73E–.09 42 3.9b,3.8b
JMA V 22 06 57 49.1–.70 34.80N 142.79E 50 3.3,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=307.3km s-min=41.4km az=42.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=8.8km az=136.4.
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISC V 22 07 41 13.3–.66 34.98N–.05 142.83E–.07 35 4.0b 59 2-147
NIED V 22 07 41 00 34.90N 142.90E 5 3.8W **¶16710596**
IDC V 22 07 41 07.8–.61 34.82N 142.99E 0 4.2L,4.1
JMA V 22 07 41 09.8–.40 34.93N 142.93E 56 3.8,4.1
ISCJB V 22 07 41 10.9–.43 34.91N–.04 142.76E–.04 33 4.0b,3.6s
NEIC V 22 07 41 13.1–.41 34.88N 142.83E 35 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ25.00000°,λ-98.00000°. NP2:ϕ_s184.00000°,δ66.00000°,λ-86.00000°. $M_0$5.41000×10^{14}
IDC Error ellipse: s-maj=19.7km s-min=14.7km az=123.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=171.3.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.2km az=138.0.
ISC V 22 08 08 18.5–1.1 34.82N–.07 142.77E–.09 35 3.6b 26 1-77
NIED V 22 08 08 00 34.90N 142.80E 5 3.5W **¶17204205**
IDC V 22 08 08 13.4–1.2 34.81N 142.87E 0 3.8,3.6b
ISCJB V 22 08 08 16.9–.78 34.82N–.07 142.76E–.07 33 3.6b,3.6b
JMA V 22 08 08 16.6–.40 34.87N 142.76E 27 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ51.00000°,λ-35.00000°. NP2:ϕ_s168.00000°,δ64.00000°,λ-136.00000°. $M_0$1.92000×10^{14}
IDC Error ellipse: s-maj=36.3km s-min=24.4km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.6km az=32.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 22 08 18 18.1–4.5 34.76N–.05 142.80E–.07 11–28 4.0b 60 2-147
NIED V 22 08 18 00 34.90N 142.60E 5 3.9W **¶16560120**
IDC V 22 08 18 17.1–.65 34.85N 142.82E 0 4.1,4.0
JMA V 22 08 18 20.3–.40 34.92N 142.64E 14 3.8,4.0
NEIC V 22 08 18 21.7–.40 34.73N 142.78E 35 4.2b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ33.00000°,λ-84.00000°. NP2:ϕ_s212.00000°,δ57.00000°,λ-94.00000°. $M_0$7.29000×10^{14}
IDC Error ellipse: s-maj=16.8km s-min=15.6km az=138.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=8.3km az=124.0.
ISC V 22 08 20 19.3–.91 37.22N–.05 143.65E–.07 35 3.7b 31 2-89
NIED V 22 08 20 00 37.30N 143.40E 5 3.6W **¶17204206**
IDC V 22 08 20 15.9–1.0 37.05N 144.01E 0 3.9,3.8
ISCJB V 22 08 20 18.1–.71 37.24N–.04 143.59E–.05 33 3.7b,3.8
JMA V 22 08 20 18.4–.40 37.26N 143.39E 13 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ22.00000°,λ-108.00000°. NP2:ϕ_s196.00000°,δ69.00000°,λ-83.00000°. $M_0$2.49000×10^{14}
IDC Error ellipse: s-maj=27.3km s-min=20.6km az=100.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.8km az=3.9.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC V 22 08 26 27.0–1.6 34.8N–.10 142.8E–.20 35 3.5b 7 3-59
IDC V 22 08 26 21.7–2.5 34.92N 142.92E 0 3.6,3.6 **¶16710599**
ISCJB V 22 08 26 24.6–1.3 34.8N–.10 142.8E–.10 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 22 08 26 53.4–.54 34.87N–.06 142.86E–.06 35 3.9b 83 2-147
NIED V 22 08 26 00 34.90N 142.90E 5 3.9W **¶17204209**
IDC V 22 08 26 48.4–.59 34.88N 142.86E 0 4.1,4.0
NEIC V 22 08 26 50.0–.30 34.86N 142.86E 10 4.2b,4.0
JMA V 22 08 26 50.8–.40 34.86N 142.88E 55 3.8,4.0
ISCJB V 22 08 26 51.1–.41 34.86N–.04 142.83E–.04 33 3.9b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ23.00000°,λ-96.00000°. NP2:ϕ_s191.00000°,δ67.00000°,λ-87.00000°. $M_0$7.39000×10^{14}
NEIC Event type se.
ISCJB Event type se.
ISC V 22 08 31 24.9–.52 34.85N–.04 142.80E–.04 35 4.4b 77 2-147
NIED V 22 08 31 00 34.90N 142.80E 5 4.4W **¶16560122**
IDC V 22 08 31 20.1–.58 34.81N 142.85E 0 4.5,4.3
JMA V 22 08 31 22.7–.30 34.88N 142.83E 43 4.3,4.3
ISCJB V 22 08 31 23.1–.35 34.79N–.04 142.75E–.03 33 4.4b,4.1s
NEIC V 22 08 31 24.9–.30 34.72N 142.80E 35 4.6b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ30.00000°,λ-76.00000°. NP2:ϕ_s203.00000°,δ61.00000°,λ-98.00000°. $M_0$3.91000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.2km az=164.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.0km az=170.9.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.0km az=140.0.
JMA V 22 08 50 40.0–.40 34.84N 142.77E 67 3.5
¶600620647
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 22 09 35 46.2–1.3 34.75N–.09 142.9E–.20 35 7 3-59
IDC V 22 09 35 42.5–2.0 34.83N 142.92E 0 3.8,3.8L **¶16710603**
ISCJB V 22 09 35 43.7–1.2 34.85N–.09 143.0E–.20 33 3.6b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC V 22 09 35 51.3–4.4 34.93N–.05 142.90E–.06 16–27 4.3b 82 2-147
NIED V 22 09 35 00 34.90N 142.90E 8 4.1W **¶17204213**
ISCJB V 22 09 35 48.7–1.4 34.89N–.05 142.87E–.03 10–8 4.3b,3.5s
IDC V 22 09 35 48.8–.53 34.85N 142.92E 0 4.3,4.2
JMA V 22 09 35 50.4–.30 34.89N 142.94E 41 4.3,4.2
NEIC V 22 09 35 50.9–3.4 34.86N 142.89E 14–20 4.6b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ30.00000°,λ-81.00000°. NP2:ϕ_s187.00000°,δ60.00000°,λ-95.00000°. $M_0$1.80000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.5km az=3.2.
IDC Error ellipse: s-maj=14.9km s-min=12.7km az=118.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.0km az=114.0.
ISC V 22 09 37 54.4–.45 34.92N–.05 142.88E–.06 35 4.4b 83 2-151
NIED V 22 09 37 00 34.90N 142.80E 5 4.2W **¶16560124**
IDC V 22 09 37 49.2–.52 34.83N 142.88E 0 4.3,4.2
NEIC V 22 09 37 50.5–2.4 34.82N 142.89E 8–15 4.7b,4.2
JMA V 22 09 37 51.5–.20 34.94N 142.80E 97 3.9,4.2
ISCJB V 22 09 37 52.5–.33 34.84N–.04 142.78E–.03 33 4.3b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ39.00000°,λ-79.00000°. NP2:ϕ_s180.00000°,δ52.00000°,λ-98.00000°. $M_0$1.96000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC V 22 09 41 32.5–.56 34.93N–.05 142.85E–.06 35 4.4b,3.4s 78 2-147
NIED V 22 09 41 00 34.90N 142.80E 5 4.2W,3.4s **¶16532378**
IDC V 22 09 41 27.5–.60 34.86N 142.92E 0 4.2,4.1
NEIC V 22 09 41 31.0–3.0 34.84N 142.81E 18–18 4.6b,4.1
JMA V 22 09 41 30.2–.30 34.88N 142.85E 68 3.9,4.1
ISCJB V 22 09 41 31.4–.27 34.85N–.03 142.73E–.03 33 4.3b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ38.00000°,λ-83.00000°. NP2:ϕ_s185.00000°,δ53.00000°,λ-95.00000°. $M_0$2.30000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC V 22 09 53 04.2–1.0 34.95N–.06 142.96E–.07 35 3.8b 35 2-75
NIED V 22 09 53 00 34.90N 142.90E 5 3.5W **¶17204215**
IDC V 22 09 53 01.2–1.4 34.77N 142.88E 0 4.0,3.9
ISCJB V 22 09 53 02.3–.80 35.01N–.04 142.96E–.06 33 3.8b,3.9
JMA V 22 09 53 02.8–.40 34.88N 142.94E 56 3.6,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ24.00000°,λ-123.00000°. NP2:ϕ_s217.00000°,δ70.00000°,λ-76.00000°. $M_0$1.98000×10^{14}
IDC Error ellipse: s-maj=34.6km s-min=26.8km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.5km az=26.4.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC V 22 09 57 23.2–.73 34.75N–.06 142.86E–.08 10 4.0b 22 3-75
ISCJB V 22 09 57 22.8–.63 34.68N–.06 142.81E–.08 10 4.1b **¶16591609**
IDC V 22 09 57 23.4–.89 34.80N 142.81E 0 3.9,3.8
NEIC V 22 09 57 24.5–.72 34.82N 142.85E 10 4.8b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=8.1km az=26.2.
IDC Error ellipse: s-maj=27.3km s-min=18.3km az=107.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=11.3km az=91.0.
ISC V 22 11 06 58.3–.59 37.65N–.04 142.04E–.04 27–3 4.7b,4.1s 465 1-150
NIED V 22 11 06 00 37.60N 142.10E 8 4.6W,4.1s **¶16535842**
IDC V 22 11 06 54.0–.50 37.56N 141.97E 0 4.6,4.5
JMA V 22 11 06 55.9–.10 37.58N 142.06E 27–3 4.7,4.5

ISCJB V 22 11 06 57.2–.62 37.62N–.03 141.94E–.03 26–4 4.6b,4.0s
NEIC V 22 11 06 58.5–1.1 37.66N 141.95E 23–7 4.7b,4.0s
MOS V 22 11 07 00.1–.94 37.92N 141.89E 40 4.9b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ26.00000°,λ-75.00000°. NP2:ϕ_s21.00000°,δ65.00000°,λ-97.00000°. $M_0$7.90000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.6km az=110.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=147.5.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=145.0. Recorded [2 JMA] in Miyagi.
MOS Error ellipse: s-maj=6.9km s-min=4.5km az=103.0.
ISC V 22 11 43 22.7–1.3 34.82N–.09 142.9E–.10 35 3.6b 20 2-59
IDC V 22 11 43 18.5–2.0 34.76N 142.95E 0 3.8L,3.7 **¶17204218**
JMA V 22 11 43 18.7–.50 34.84N 143.10E 60 3.5,3.7
ISCJB V 22 11 43 19.2–.91 34.86N–.07 143.06E–.09 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 22 11 44 28.5–1.9 34.75N–.08 143.1E–.10 35 3.8b 20 2-75
NIED V 22 11 44 00 34.90N 142.90E 8 3.6W **¶17204219**
IDC V 22 11 44 27.8–1.1 34.81N 142.87E 0 3.9,3.9L
JMA V 22 11 44 29.2–.40 34.87N 142.94E 58 3.7,3.9L
ISCJB V 22 11 44 30.1–.78 34.78N–.07 142.86E–.07 33 3.8b,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ30.00000°,λ-95.00000°. NP2:ϕ_s204.00000°,δ60.00000°,λ-87.00000°. $M_0$2.71000×10^{14}
ISCJB Event type ke.
ISC V 22 14 46 11.5–.34 37.64N–.03 143.53E–.03 28–1 5.5b,5.2s 1413 2-159
NIED V 22 14 46 00 37.60N 143.40E 11 5.5W,5.2s **¶16533376**
IDC V 22 14 46 07.3–.40 37.59N 143.60E 0 5.3,5.3
ISCJB V 22 14 46 08.1–.48 37.62N–.02 143.49E–.01 14–2 5.4b,5.2s
JMA V 22 14 46 10.2–.20 37.58N 143.46E 45 5.6,5.2s
NEIC V 22 14 46 11.7–.46 37.60N 143.49E 29–3 5.6W,5.5b
GCMT V 22 14 46 11.7–.10 37.59N 143.59E 17–0 5.6W,5.5b
MOS V 22 14 46 13.4–.85 37.99N 143.47E 40 5.7b,5.2s
BJI V 22 14 46 14.3 37.76N 142.85E 29 5.6b,5.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ68.00000°,λ-8.00000°. NP2:ϕ_s153.00000°,δ83.00000°,λ-158.00000°. $M_0$2.21000×10^{17}
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.6km az=159.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=149.0. Recorded [2 JMA] in Fukushima and Miyagi. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56 $M_{\theta\theta}$-2.07 $M_{\phi\phi}$2.63 $M_{r\theta}$0.28 $M_{\theta\phi}$1.11 $M_{\phi r}$0.22 Best double couple: NP1:ϕ_s237.00000° ,δ88.00000°,λ-8.00000°. NP2:ϕ_s328.00000°,δ82.00000°,λ-178.00000°. Principal axes: T 2.9000,Plg5.0000°,Azm283.0000°; N -0.5600,Plg81.0000°,Azm44.0000° ; P -2.3500,Plg7.0000°,Azm192.0000° $M_0$2.70000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s90,c173; s122,c317;Duration: 1±5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.85±.03 $M_{\theta\theta}$-2.17±.03; $M_{\phi\phi}$3.02±.03; $M_{r\theta}$0.05±.08; $M_{\theta\phi}$1.36±.03; $M_{\phi r}$1.05±.09; Best double couple: NP1:ϕ_s329.00000° ,δ86.00000°,λ165.00000°. NP2:ϕ_s60.00000°,δ75.00000°,λ4.00000°. Principal axes: T 3.5940,Plg13.0000°,Azm283.0000°; N -1.0670,Plg75.0000°,Azm135.0000° ; P -2.5320,Plg8.0000°,Azm15.0000° $M_0$3.06300×10^{17}
MOS Error ellipse: s-maj=5.9km s-min=3.4km az=105.7.
IDC V 22 15 31 50.8–3.6 36.85N 143.50E 0 3.5,3.4b
¶17204231
IDC Error ellipse: s-maj=84.8km s-min=40.9km az=54.0.
ISC V 22 15 34 11.5–1.3 37.6N–.10 143.5E–.10 35 3.6b 8 4-58
IDC V 22 15 34 06.2–1.5 37.50N 143.70E 0 3.7,3.6b **¶17204232**
ISCJB V 22 15 34 09.3–1.3 37.67N–.09 143.5E–.10 33 3.6b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC V 22 16 27 40.3–.96 34.71N–.09 142.71E–.10 35 3.6b 10 3-76
IDC V 22 16 27 35.4–1.0 34.78N 142.82E 0 3.7,3.6 **¶17204237**
ISCJB V 22 16 27 38.2–.83 34.71N–.07 142.69E–.09 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC V 22 16 36 02.3–6.4 36.70N 142.02E 0 3.5,3.4b
¶17204239
IDC Error ellipse: s-maj=137.3km s-min=42.4km az=30.0.
ISC V 22 17 10 34.2–.68 37.98N–.05 142.38E–.06 14 3.8b 36 1-146
NIED V 22 17 10 00 38.00N 142.30E 35 3.9W **¶17204242**
ISCJB V 22 17 10 32.9–.57 37.97N–.04 142.46E–.05 14 3.7b
JMA V 22 17 10 36.2–.20 38.04N 142.33E 39–2 3.9
IDC V 22 17 10 38.4–2.4 38.01N 142.43E 41–22 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ40.00000°,λ-37.00000°. NP2:ϕ_s305.00000°,δ67.00000°,λ-124.00000°. $M_0$8.90000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.9km az=151.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=21.9km s-min=14.7km az=97.0.
ISC V 22 17 15 45.8–1.8 34.8N–.10 142.8E–.20 35 3.7b 14 2-59
IDC V 22 17 15 41.4–2.5 34.76N 142.85E 0 3.7,3.7 **¶17204244**
ISCJB V 22 17 15 43.8–1.3 34.9N–.10 142.8E–.10 33 3.6b,3.7
JMA V 22 17 15 43.7–.60 34.87N 142.84E 69 3.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=58.1km s-min=24.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=9.4km az=138.3.
JMA Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
ISC V 22 17 22 36.0–1.2 36.17N–.05 142.50E–.09 18 3.6b 35 1-60
IDC V 22 17 22 32.9–1.7 36.21N 142.65E 0 3.6,3.5 **¶17204245**
ISCJB V 22 17 22 34.2–.72 36.19N–.03 142.55E–.06 18 3.5b,3.5
JMA V 22 17 22 36.0–.20 36.18N 142.49E 73 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=23.1km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.7km az=17.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 22 17 47 25.3–.79 37.53N–.06 143.2E–.10 35 3.7b 18 4-69
IDC V 22 17 47 21.6–.90 37.57N 143.20E 0 3.8,3.8 **¶17204247**
ISCJB V 22 17 47 24.1–.72 37.45N–.08 143.2E–.10 33 3.6b,2.3s
ISC Event type ke.
ISCJB Event type ke.
IDC V 22 17 59 16.0–2.3 39.35N 143.62E 0 3.7,3.7s
¶17204249
IDC Error ellipse: s-maj=56.7km s-min=26.0km az=87.0.
IDC V 22 18 11 22.8–2.5 37.44N 142.43E 0 3.4,3.4
¶17204250
IDC Error ellipse: s-maj=58.5km s-min=27.8km az=72.0.
ISC V 22 18 14 10.6–.78 39.74N–.05 143.55E–.07 11 4.1b 56 1-73
NIED V 22 18 14 00 39.70N 143.60E 23 4.1W **¶16560126**
ISCJB V 22 18 14 08.4–.50 39.67N–.03 143.62E–.06 11 4.0b,3.4s
IDC V 22 18 14 09.0–.91 39.64N 143.52E 0 4.0,4.0b
JMA V 22 18 14 10.4–.20 39.68N 143.63E 41 4.3,4.0b
NEIC V 22 18 14 14.2–.73 39.70N 143.49E 35 4.4b,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ26.00000°,λ45.00000°. NP2:ϕ_s42.00000°,δ72.00000°,λ109.00000°. $M_0$1.46000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.7km az=28.8.
IDC Error ellipse: s-maj=24.0km s-min=15.2km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=8.2km az=116.0.
IDC V 22 18 18 16.6–1.3 35.62N 143.04E 0 3.7,3.5
¶17204251
IDC Error ellipse: s-maj=40.8km s-min=27.5km az=131.0.
ISC V 22 19 00 52.6–.56 38.00N–.05 142.77E–.05 18 4.1b 58 1-91
NIED V 22 19 00 00 38.00N 142.90E 11 3.9W **¶16560127**
ISCJB V 22 19 00 50.3–.40 37.91N–.03 142.89E–.04 18 4.0b
JMA V 22 19 00 50.8–.30 38.03N 142.88E 17–4 4.1
IDC V 22 19 00 50.2–.64 37.98N 142.78E 0 4.1,3.9
NEIC V 22 19 00 51.5–.41 38.00N 142.83E 10 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ34.00000°,λ-106.00000°. NP2:ϕ_s45.00000°,δ58.00000°,λ-79.00000°. $M_0$8.21000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=32.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=13.6km az=106.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.3km az=113.0.
ISC V 22 19 51 55.2–3.5 37.67N–.06 143.52E–.06 12–21 4.3b 71 2-88
NIED V 22 19 51 00 37.60N 143.40E 5 4.0W **¶16560128**
IDC V 22 19 51 52.5–.65 37.50N 143.65E 0 4.2,4.1
NEIC V 22 19 51 54.2–.46 37.55N 143.63E 10 4.5b,4.1
JMA V 22 19 51 56.6–.30 37.62N 143.43E 43 4.0,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ44.00000°,λ-81.00000°. NP2:ϕ_s0.00000°,δ47.00000°,λ-99.00000°. $M_0$1.18000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=13.8km az=118.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.9km az=144.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC V 23 01 37 56.4–.89 37.88N–.06 143.75E–.07 35 4.0b 47 2-72
NIED V 23 01 37 00 37.90N 143.60E 5 3.7W **¶16640721**
IDC V 23 01 37 50.5–1.1 37.78N 144.04E 0 4.0,4.0L
NEIC V 23 01 37 51.9–.94 37.74N 144.00E 10 4.0b,4.0L
ISCJB V 23 01 37 54.9–.59 37.90N–.04 143.65E–.05 33 3.8b,4.0L
JMA V 23 01 37 55.1–.20 37.89N 143.57E 36 3.9,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s80.00000°,δ24.00000°,λ-100.00000°. NP2:ϕ_s272.00000°,δ66.00000°,λ-85.00000°. $M_0$3.65000×10^{14}
IDC Error ellipse: s-maj=24.3km s-min=21.8km az=148.0.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=7.6km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.9km az=135.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 23 01 48 52.7–.41 37.82N–.04 143.62E–.04 28–2 5.0b,4.3s 669 2-153
NIED V 23 01 48 00 37.80N 143.70E 5 4.8W,4.3s **¶16533397**
ISCJB V 23 01 48 48.6–.78 37.78N–.02 143.61E–.02 10–4 4.9b,4.3s
IDC V 23 01 48 48.0–.48 37.66N 143.71E 0 4.7,4.7
JMA V 23 01 48 50.3–.30 37.83N 143.66E 48 4.9,4.7
NEIC V 23 01 48 52.1–1.4 37.71N 143.67E 25–9 5.1b,4.7
GCMT V 23 01 48 52.1–.30 37.95N 143.63E 12 4.9W,4.7
MOS V 23 01 48 55.4–.97 38.13N 143.64E 45 5.1b,4.2s
BJI V 23 01 48 57.4 38.10N 142.93E 39 5.0b,4.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ21.00000°,λ-118.00000°. NP2:ϕ_s224.00000°,δ71.00000°,λ-80.00000°. $M_0$2.06000×10^{16}
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.4km az=168.0.
IDC Error ellipse: s-maj=12.8km s-min=11.4km az=119.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.1km az=145.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c33; s83,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.94±.07 $M_{\theta\theta}$0.29±.07; $M_{\phi\phi}$1.65±.06; $M_{r\theta}$1.24±.25; $M_{\theta\phi}$1.05±.06; $M_{\phi r}$0.89±.22; Best double couple: NP1:ϕ_s224.00000°,δ64.00000° ,λ-74.00000°. NP2:ϕ_s12.00000°,δ30.00000°,λ-119.00000°. Principal axes: T 2.6450,Plg17.0000°,Azm303.0000°; N -0.1120,Plg14.0000°,Azm37.0000° ; P -2.5320,Plg68.0000°,Azm164.0000° $M_0$2.58800×10^{16}
MOS Error ellipse: s-maj=8.0km s-min=4.5km az=104.3.
ISC V 23 02 48 13.1–1.0 37.86N–.06 143.62E–.08 19 3.7b 32 2-80
NIED V 23 02 48 00 37.90N 143.60E 5 3.6W **¶17204275**
IDC V 23 02 48 09.8–1.2 37.78N 143.98E 0 3.9,3.9L
ISCJB V 23 02 48 11.6–.74 37.84N–.04 143.57E–.06 19 3.7b,3.1s
JMA V 23 02 48 13.3–.20 37.87N 143.55E 39 3.7,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ27.00000°,λ-116.00000°. NP2:ϕ_s207.00000°,δ66.00000°,λ-78.00000°. $M_0$3.20000×10^{14}
IDC Error ellipse: s-maj=31.0km s-min=21.7km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.6km az=31.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 23 04 43 35.2–.30 38.63N 143.15E 11–5 3.5
NIED V 23 04 43 00 38.60N 143.20E 5 3.6W **¶600621185**
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ11.00000°,λ-10.00000°. NP2:ϕ_s237.00000°,δ88.00000°,λ-101.00000°. $M_0$2.69000×10^{14}
JMA V 23 05 45 21.1–.30 37.30N 142.82E 22 3.6
¶600621205
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 23 06 31 50.2–1.1 34.73N–.08 142.9E–.10 35 3.8b 20 2-77
NIED V 23 06 31 00 34.90N 142.80E 5 3.6W **¶17204287**
IDC V 23 06 31 45.6–1.2 34.92N 143.10E 0 3.9,3.8
ISCJB V 23 06 31 48.4–.84 34.83N–.08 142.92E–.09 33 3.8b,3.2s
JMA V 23 06 31 50.0–.80 34.88N 142.80E 60 3.6,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ24.00000°,λ-95.00000°. NP2:ϕ_s185.00000°,δ66.00000°,λ-88.00000°. $M_0$3.12000×10^{14}
IDC Error ellipse: s-maj=41.6km s-min=21.7km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=7.8km az=41.5.
JMA Error ellipse: s-maj=3.3km s-min=6.4km az=-1.0.
JMA V 23 06 32 20.4–.20 39.95N 144.27E 38 3.6
NIED V 23 06 32 00 39.90N 144.30E 5 3.8W **¶600621212**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ37.00000°,λ-82.00000°. NP2:ϕ_s169.00000°,δ53.00000°,λ-96.00000°. $M_0$6.20000×10^{14}
ISC V 23 07 23 37.0–.95 37.64N–.09 143.5E–.10 37–3 4.2b 41 2-73
NIED V 23 07 23 00 37.70N 143.40E 17 3.8W **¶16710691**
IDC V 23 07 23 30.5–.93 37.41N 143.75E 0 4.0,4.0
NEIC V 23 07 23 31.8–.59 37.44N 143.75E 10 4.4b,4.0
ISCJB V 23 07 23 34.1–1.1 37.63N–.05 143.53E–.07 33–10 4.0b,4.0
JMA V 23 07 23 34.6–.20 37.69N 143.43E 29 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ50.00000°,λ-172.00000°. NP2:ϕ_s204.00000°,δ84.00000°,λ-40.00000°. $M_0$5.06000×10^{14}
IDC Error ellipse: s-maj=23.7km s-min=17.9km az=91.0.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.3km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=7.3km az=25.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 23 10 17 36.8–.85 37.85N–.06 143.58E–.08 19 3.8b 32 2-76
NIED V 23 10 17 00 37.90N 143.60E 20 3.9W **¶17204293**
IDC V 23 10 17 34.0–.81 37.57N 143.97E 0 4.0L,3.9
ISCJB V 23 10 17 34.7–.61 37.77N–.05 143.60E–.05 19 3.7b,2.9s
JMA V 23 10 17 37.1–.20 37.87N 143.58E 44 3.9,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s111.00000°,δ24.00000°,λ-73.00000°. NP2:ϕ_s272.00000°,δ67.00000°,λ-98.00000°. $M_0$7.28000×10^{14}
IDC Error ellipse: s-maj=26.3km s-min=16.4km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=138.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 23 13 33 22.7–.77 37.18N–.04 143.86E–.07 35 4.0b 60 2-88
NIED V 23 13 33 00 37.20N 143.70E 5 3.7W **¶16593313**
IDC V 23 13 33 17.2–.86 37.03N 143.99E 0 4.0,3.9
NEIC V 23 13 33 18.7–.63 37.09N 144.06E 10 4.5b,3.9
ISCJB V 23 13 33 20.5–.51 37.17N–.03 143.80E–.04 33 3.9b,3.3s
JMA V 23 13 33 21.9–.20 37.19N 143.72E 44 4.1,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ33.00000°,λ-85.00000°. NP2:ϕ_s199.00000°,δ58.00000°,λ-93.00000°. $M_0$4.43000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=17.2km az=100.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=10.3km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=4.4km az=38.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 23 20 24 55.9–1.1 37.84N–.06 142.68E–.08 14 3.4b 17 1-69
NIED V 23 20 24 00 37.80N 142.60E 8 3.5W **¶17204320**
ISCJB V 23 20 24 54.7–.91 37.76N–.08 142.8E–.10 14 3.5s,3.4b

IDC V 23 20 24 54.0–1.8 37.75N 142.96E 0 3.6,3.6
JMA V 23 20 24 57.5–.40 37.78N 142.63E 41 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s262.00000°,δ55.00000°,λ38.00000°. NP2:ϕ_s148.00000°,δ60.00000°,λ139.00000°. $M_0$1.79000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.8km az=138.9.
IDC Error ellipse: s-maj=51.9km s-min=22.6km az=76.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
JMA V 23 20 54 41.9–.60 34.84N 143.04E 62 3.5
¶600621727
JMA Error ellipse: s-maj=3.3km s-min=5.5km az=-1.0.
ISC V 23 21 33 04.4–1.0 38.61N–.07 144.72E–.08 35 3.6b 29 2-69
IDC V 23 21 32 59.2–1.1 38.42N 144.94E 0 3.8,3.6 **¶17204324**
NIED V 23 21 33 00 38.50N 144.60E 11 3.6W,3.6
ISCJB V 23 21 33 02.4–.74 38.64N–.05 144.72E–.06 35 3.5b,3.3s
JMA V 23 21 33 02.5–.20 38.55N 144.62E 32 3.6,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=21.3km az=112.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ22.00000°,λ-98.00000°. NP2:ϕ_s189.00000°,δ68.00000°,λ-87.00000°. $M_0$2.38000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.7km az=141.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 23 21 43 20.6–.20 36.97N 142.39E 14–4 3.5
NIED V 23 21 43 00 37.00N 142.40E 38 3.4W **¶600621748**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ68.00000°,λ-19.00000°. NP2:ϕ_s333.00000°,δ72.00000°,λ-156.00000°. $M_0$1.34000×10^{14}
ISC V 23 22 15 03.3–.71 37.32N–.06 142.35E–.06 10 3.8b 34 1-146
NIED V 23 22 15 00 37.30N 142.30E 20 3.9W **¶17204331**
ISCJB V 23 22 15 01.7–.61 37.28N–.06 142.44E–.05 10 3.7b,3.3s
JMA V 23 22 15 03.2–.20 37.30N 142.34E 11–3 4.4,3.3s
IDC V 23 22 15 06.4–6.3 37.20N 142.47E 33–47 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ43.00000°,λ-96.00000°. NP2:ϕ_s225.00000°,δ47.00000°,λ-84.00000°. $M_0$9.31000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.9km az=162.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=22.5km s-min=17.2km az=120.0.
ISC V 24 01 25 29.4–.87 39.81N–.04 143.28E–.05 31–5 4.6b,4.0s 202 1-131
NIED V 24 01 25 00 39.80N 143.50E 26 4.4W,4.0s **¶16538115**
JMA V 24 01 25 24.9–.20 39.77N 143.53E 30 4.3,4.0s
MOS V 24 01 25 26.6–.86 39.74N 143.37E 29 4.7b,4.0s
IDC V 24 01 25 28.2–5.8 39.68N 143.39E 28–39 4.3,4.2
ISCJB V 24 01 25 28.1–.42 39.83N–.04 143.25E–.06 33 4.6b,3.9s
NEIC V 24 01 25 35.5–2.1 40.21N 142.03E 20–15 4.7b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ28.00000°,λ72.00000°. NP2:ϕ_s32.00000°,δ63.00000°,λ99.00000°. $M_0$3.86000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=8.6km s-min=5.5km az=111.5.
IDC Error ellipse: s-maj=16.2km s-min=13.2km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=3.8km az=37.9.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=145.0.
ISC V 24 01 39 19.1–.82 38.08N–.07 144.18E–.07 35 3.8b 31 2-75
NIED V 24 01 39 00 38.10N 144.10E 5 3.7W **¶17204347**
IDC V 24 01 39 13.2–.84 37.90N 144.30E 0 3.9,3.8
ISCJB V 24 01 39 16.8–.60 38.02N–.06 144.16E–.05 33 3.8b,3.8
JMA V 24 01 39 16.6–.10 38.07N 144.14E 33 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ24.00000°,λ-112.00000°. NP2:ϕ_s66.00000°,δ68.00000°,λ-80.00000°. $M_0$3.70000×10^{14}
IDC Error ellipse: s-maj=21.0km s-min=18.6km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.1km az=5.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 24 03 34 57.7–.20 37.43N 143.66E 49 3.5
¶600621914
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 24 03 40 52.1–.32 39.78N–.02 143.32E–.03 24–1 5.8b,5.6s 2011 1-158
NIED V 24 03 40 00 39.80N 143.50E 17 5.8W,5.6s **¶602607425**
IDC V 24 03 40 48.8–.48 39.74N 143.37E 0 5.7,5.7s
ISCJB V 24 03 40 49.6–.53 39.75N–.02 143.33E–.01 12–3 5.7b,5.7s
JMA V 24 03 40 50.0–.20 39.78N 143.49E 27 5.8,5.7s
BJI V 24 03 40 51.6 39.75N 143.15E 30 6.1,6.1s
NEIC V 24 03 40 51.3–.10 39.71N 143.25E 16 5.8,5.8W
GCMT V 24 03 40 52.2–.10 39.75N 143.42E 25 5.9W,5.8W
NEIC V 24 03 40 52.0–.00 39.72N 143.24E 22 5.9W,5.8W
MOS V 24 03 40 53.1–.90 39.92N 143.21E 31 6.0b,5.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ20.00000°,λ66.00000°. NP2:ϕ_s28.00000°,δ71.00000°,λ99.00000°. $M_0$5.34000×10^{17}
IDC Error ellipse: s-maj=13.1km s-min=11.5km az=115.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=143.0. Felt at Ichinoseki and Misawa. Recorded [3 JMA] in Iwate and Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}3.10 $M_{\theta\theta}$-0.85 $M_{\phi\phi}$-2.25 $M_{r\theta}$2.96 $M_{\theta\phi}$-1.12 $M_{\phi r}$5.36 Best double couple: NP1:ϕ_s209.00000°,δ13.00000°,λ90.00000°. NP2:ϕ_s29.00000°,δ77.00000°,λ90.00000°. Principal axes: T 6.9300,Plg58.0000°,Azm299.0000° ; N -0.2300,Plg0.0000°,Azm29.0000°; P -6.7000,Plg32.0000°,Azm119.0000° $M_0$6.80000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c237; s134,c379;Duration: 2^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}3.45±.04 $M_{\theta\theta}$-0.04±.03; $M_{\phi\phi}$-3.41±.03; $M_{r\theta}$3.08±.09; $M_{\theta\phi}$-0.90±.03; $M_{\phi r}$6.37±.08; Best double couple: NP1:ϕ_s25.00000°,δ77.00000°,λ95.00000°. NP2:ϕ_s183.00000°,δ14.00000°,λ69.00000°. Principal axes: T 7.8850,Plg58.0000°,Azm301.0000°; N 0.0550,Plg5.0000°,Azm203.0000° ; P -7.9440,Plg32.0000°,Azm110.0000° $M_0$7.91400×10^{17}
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}2.58 $M_{\theta\theta}$-0.38 $M_{\phi\phi}$-2.19 $M_{r\theta}$1.81 $M_{\theta\phi}$-0.33 $M_{\phi r}$5.71 Best double couple: NP1:ϕ_s17.00000°,δ79.00000°,λ92.00000°. NP2:ϕ_s186.00000°,δ11.00000°,λ79.00000°. Principal axes: T 6.6300,Plg55.0000°,Azm289.0000°; N -0.3600,Plg2.0000°,Azm196.0000° ; P -6.2800,Plg34.0000°,Azm105.0000° $M_0$6.50000×10^{17}
MOS Error ellipse: s-maj=5.5km s-min=3.5km az=102.3.
JMA V 24 03 47 58.6–.20 36.32N 142.53E 70 3.7
¶600621917
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 24 03 57 55.0–1.4 39.74N–.07 143.4E–.10 11 3.5b 14 1-60
IDC V 24 03 57 51.3–2.9 39.75N 143.90E 0 3.8,3.6 **¶17204351**
JMA V 24 03 57 51.7–.40 39.71N 143.53E 5–4 3.9,3.6
ISCJB V 24 03 57 53.0–1.2 39.70N–.07 143.5E–.10 11 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 24 04 14 16.8–.57 39.77N–.06 143.45E–.05 6 4.9s,4.1b 61 1-146
ISCJB V 24 04 14 15.0–.43 39.72N–.04 143.54E–.05 6 4.8s,4.0b **¶600621937**
JMA V 24 04 14 16.0–.30 39.77N 143.56E 13 4.2,4.0b
MOS V 24 04 14 18.4–1.1 39.75N 143.38E 30 4.3b,4.0b
IDC V 24 04 14 21.6–2.9 39.72N 143.38E 39–24 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=140.3.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=11.8km s-min=7.5km az=96.0.
IDC Error ellipse: s-maj=18.2km s-min=16.3km az=139.0.
ISC V 24 04 31 06.3–.59 39.80N–.06 143.35E–.06 6 4.1b 60 1-146
NIED V 24 04 31 00 39.80N 143.70E 23 4.5W **¶17204352**
ISCJB V 24 04 31 04.6–.51 39.79N–.05 143.48E–.06 6 4.3s,4.1b
JMA V 24 04 31 04.1–.20 39.78N 143.69E 29 4.4,4.1b
MOS V 24 04 31 06.8–1.1 39.69N 143.42E 26 4.4b,4.1b
IDC V 24 04 31 10.1–4.7 39.63N 143.30E 33–35 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ34.00000°,λ100.00000°. NP2:ϕ_s10.00000°,δ57.00000°,λ83.00000°. $M_0$7.37000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.7km az=140.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=11.8km s-min=7.4km az=100.8.
IDC Error ellipse: s-maj=17.2km s-min=15.6km az=109.0.
JMA V 24 05 31 25.0–.10 38.19N 144.27E 39 4.1
¶600621971
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 24 05 40 49.0–.65 39.72N–.04 143.33E–.05 22–4 4.7b,4.1s 195 1-116
NIED V 24 05 40 00 39.80N 143.40E 17 4.5W,4.1s **¶16538117**
IDC V 24 05 40 45.3–.54 39.64N 143.34E 0 4.4,4.3
JMA V 24 05 40 47.2–.20 39.76N 143.42E 27 4.5,4.3
ISCJB V 24 05 40 49.3–.62 39.72N–.04 143.30E–.05 38–4 4.6b,4.1s
MOS V 24 05 40 49.0–.99 39.72N 143.26E 34 4.9b,4.1s
NEIC V 24 05 40 57.6–2.3 40.10N 142.05E 31–16 4.6b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ23.00000°,λ91.00000°. NP2:ϕ_s28.00000°,δ67.00000°,λ90.00000°. $M_0$5.62000×10^{15}
IDC Error ellipse: s-maj=14.3km s-min=12.2km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.9km az=38.4.
MOS Error ellipse: s-maj=7.9km s-min=5.2km az=109.6.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.4km az=154.0.
ISC V 24 06 38 32.0–.80 39.83N–.07 143.42E–.08 6 4.0b 30 1-87
NIED V 24 06 38 00 39.80N 143.50E 26 4.0W **¶16560139**
ISCJB V 24 06 38 30.0–.66 39.83N–.05 143.53E–.08 6 3.9b
JMA V 24 06 38 31.7–.20 39.84N 143.50E 21 4.1
IDC V 24 06 38 36.8–2.5 39.76N 143.31E 44–22 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ24.00000°,λ74.00000°. NP2:ϕ_s26.00000°,δ67.00000°,λ97.00000°. $M_0$1.12000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.5km az=37.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=20.9km s-min=16.3km az=108.0.
JMA V 24 07 46 22.3–.20 37.86N 143.78E 40 3.7
NIED V 24 07 46 00 37.90N 143.80E 5 3.4W **¶600622038**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ37.00000°,λ-31.00000°. NP2:ϕ_s181.00000°,δ72.00000°,λ-123.00000°. $M_0$1.26000×10^{14}
ISC V 24 08 12 59.1–1.1 35.95N–.06 142.11E–.09 23 3.8b 19 1-56
NIED V 24 08 12 00 36.10N 142.00E 20 3.8W **¶17204366**
ISCJB V 24 08 12 57.0–.85 35.99N–.05 142.16E–.08 23 3.7b,2.3s
JMA V 24 08 12 58.5–.40 36.08N 142.05E 76 3.7,2.3s
IDC V 24 08 13 01.9–4.0 35.97N 141.93E 37–37 3.9,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ37.00000°,λ128.00000°. NP2:ϕ_s5.00000°,δ62.00000°,λ65.00000°. $M_0$5.65000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.6km az=0.6.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=36.2km s-min=20.2km az=83.0.
ISC V 24 08 51 08.4–1.1 39.70N–.07 143.33E–.09 11 3.6b 23 1-60
NIED V 24 08 51 00 39.70N 143.40E 23 3.9W **¶17204367**
ISCJB V 24 08 51 06.8–.87 39.65N–.06 143.44E–.09 11 3.4b,2.8s
JMA V 24 08 51 08.3–.20 39.73N 143.38E 22–4 3.9,2.8s
IDC V 24 08 51 11.6–4.8 39.62N 143.37E 37–42 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ25.00000°,λ62.00000°. NP2:ϕ_s36.00000°,δ68.00000°,λ102.00000°. $M_0$7.13000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=6.2km az=41.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=38.4km s-min=21.2km az=111.0.
ISC V 24 09 07 16.1–.81 35.66N–.07 143.29E–.09 35 3.8b 25 4-90
IDC V 24 09 07 11.7–1.1 35.80N 143.36E 0 3.9,3.9 **¶16710795**
NEIC V 24 09 07 12.8–.70 35.86N 143.37E 10 4.0b,3.9
ISCJB V 24 09 07 14.6–.56 35.73N–.06 143.25E–.06 33 3.8b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 24 11 06 49.9–2.4 36.30N–.05 142.4E–.10 36–5 3.6b 26 1-75
IDC V 24 11 06 45.7–2.1 36.21N 142.50E 0 3.8,3.7 **¶17204372**
JMA V 24 11 06 50.4–.20 36.33N 142.21E 65–4 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=46.6km s-min=22.9km az=80.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 24 11 21 10.8–.73 34.67N–.06 141.90E–.07 21 3.6b 32 1-91
IDC V 24 11 21 08.1–.77 34.78N 141.96E 0 3.7,3.6L **¶17204375**
JMA V 24 11 21 08.4–.40 34.64N 142.07E 35 3.3,3.6L
ISCJB V 24 11 21 09.2–.59 34.67N–.05 141.89E–.05 21 3.5b,3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC V 24 11 23 19.0–2.1 37.69N–.05 142.04E–.08 2–12 3.7b 27 1-146
NIED V 24 11 23 00 37.70N 142.00E 5 3.9W **¶17204376**
ISCJB V 24 11 23 19.8–1.4 37.65N–.05 142.08E–.07 16–9 3.6b
JMA V 24 11 23 21.8–.20 37.67N 141.97E 27–3 3.6
IDC V 24 11 23 24.9–4.9 37.67N 141.98E 46–47 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ12.00000°,λ-178.00000°. NP2:ϕ_s337.00000°,δ90.00000°,λ-78.00000°. $M_0$8.69000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.2km az=28.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=38.7km s-min=22.7km az=92.0.
JMA V 24 12 12 56.6–.20 37.83N 142.60E 26–3 3.8
¶600622177
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 24 13 09 45.9–1.5 37.75N–.07 144.67E–.09 35 18 3-62
ISCJB V 24 13 09 45.0–1.0 37.67N–.07 144.58E–.08 35 3.5b **¶17204384**
JMA V 24 13 09 46.3–.10 37.84N 144.47E 20 3.5
IDC V 24 13 09 51.8–8.0 36.27N 144.06E 0 3.6,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=8.3km az=39.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=171.0km s-min=36.4km az=28.0.
JMA V 24 13 40 30.0–.60 36.87N 144.10E 0 3.7
¶600622236
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC V 24 14 16 16.0–3.0 37.62N–.05 143.56E–.06 27–25 3.9b 44 2-74
NIED V 24 14 16 00 37.60N 143.50E 11 3.7W **¶16596599**
IDC V 24 14 16 11.9–.86 37.50N 143.66E 0 4.0L,3.9
NEIC V 24 14 16 13.2–4.4 37.58N 143.67E 7–27 4.8b,3.9
ISCJB V 24 14 16 14.6–1.5 37.59N–.04 143.55E–.04 31–12 4.0b,3.9
JMA V 24 14 16 15.7–.20 37.61N 143.49E 46 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ59.00000°,λ-31.00000°. NP2:ϕ_s149.00000°,δ64.00000°,λ-145.00000°. $M_0$4.28000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=15.9km az=107.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=7.9km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.5km az=145.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 24 15 28 38.5–.40 37.90N 144.44E 23 3.6
¶600622312
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC V 24 16 58 44.5–.96 35.58N–.05 142.82E–.08 59 3.6b 26 2-64
IDC V 24 16 58 37.2–1.0 35.52N 143.12E 0 3.6,3.5 **¶17204393**
ISCJB V 24 16 58 42.4–.76 35.64N–.04 142.74E–.07 59 3.5b,3.4s
JMA V 24 16 58 42.2–.40 35.59N 142.72E 85 2.9,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=19.5km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.3km az=20.7.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
JMA V 24 17 49 15.9–.30 39.64N 143.29E 26 3.7
NIED V 24 17 49 00 39.60N 143.30E 20 3.9W **¶600622419**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s216.00000°,δ23.00000°,λ104.00000°. NP2:ϕ_s20.00000°,δ67.00000°,λ84.00000°. $M_0$8.09000×10^{14}
ISC V 24 18 21 09.2–.46 36.93N–.05 144.49E–.06 26 4.3b 89 3-119
NIED V 24 18 21 00 37.10N 144.30E 5 3.7W **¶16710837**
IDC V 24 18 21 05.5–.74 36.92N 144.64E 0 4.0,3.9
ISCJB V 24 18 21 07.4–.31 36.99N–.03 144.47E–.04 26 4.3b,3.9
NEIC V 24 18 21 10.4–.25 36.90N 144.59E 35 4.6b,3.9
JMA V 24 18 21 10.7–.50 37.13N 144.27E 39 4.7,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ41.00000°,λ-74.00000°. NP2:ϕ_s178.00000°,δ51.00000°,λ-103.00000°. $M_0$4.69000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=15.2km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.3km az=153.2.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.8km az=145.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC V 24 18 33 38.4–.44 36.34N–.04 142.69E–.05 15 4.4b,3.7s 128 2-146
NIED V 24 18 33 00 36.40N 142.50E 8 4.1W,3.7s **¶16577318**
ISCJB V 24 18 33 36.8–.29 36.35N–.03 142.66E–.04 15 4.3b,3.9s
IDC V 24 18 33 36.4–.61 36.32N 142.67E 0 4.1,4.0
JMA V 24 18 33 39.8–.30 36.38N 142.53E 72 3.7,4.0
NEIC V 24 18 33 41.5–.29 36.40N 142.64E 35 4.6b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ38.00000°,λ106.00000°. NP2:ϕ_s6.00000°,δ54.00000°,λ78.00000°. $M_0$1.83000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.7km az=143.8.
IDC Error ellipse: s-maj=15.3km s-min=12.8km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.1km az=146.0.
JMA V 24 20 51 26.7–.10 38.05N 143.08E 16–3 3.6
¶600622537
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 24 21 41 55.8–.58 37.88N–.06 142.66E–.06 14 4.1b 57 1-145
NIED V 24 21 41 00 37.80N 142.60E 14 3.8W **¶16710852**
ISCJB V 24 21 41 54.2–.39 37.89N–.04 142.70E–.05 14 4.0b,2.7s
JMA V 24 21 41 56.0–.20 37.84N 142.60E 31–4 4.1,2.7s
IDC V 24 21 41 58.6–4.4 37.84N 142.68E 33–33 3.9,3.9
NEIC V 24 21 41 59.9–.85 37.89N 142.69E 44–7 4.4b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ40.00000°,λ-71.00000°. NP2:ϕ_s190.00000°,δ53.00000°,λ-105.00000°. $M_0$6.29000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.9km az=159.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=15.3km az=97.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.2km az=126.0.
ISC V 25 00 27 46.2–3.5 38.80N–.07 143.20E–.09 6–19 3.7b 17 1-59
NIED V 25 00 27 00 38.70N 143.30E 26 3.7W **¶17204417**
IDC V 25 00 27 43.1–1.3 38.39N 143.80E 0 3.8,3.7
ISCJB V 25 00 27 45.7–2.0 38.69N–.05 143.29E–.07 22–18 3.6b,3.7
JMA V 25 00 27 46.0–.20 38.70N 143.30E 29 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ46.00000°,λ3.00000°. NP2:ϕ_s101.00000°,δ88.00000°,λ136.00000°. $M_0$3.89000×10^{14}
IDC Error ellipse: s-maj=30.5km s-min=24.1km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.3km az=41.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA V 25 02 00 53.2–.20 37.61N 144.06E 33 3.5
¶600622674
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA V 25 06 08 41.1–.30 36.10N 143.88E 44 3.6
NIED V 25 06 08 00 36.10N 143.90E 5 3.7W **¶600622760**
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s343.00000°,δ33.00000°,λ-151.00000°. NP2:ϕ_s228.00000°,δ75.00000°,λ-61.00000°. $M_0$3.49000×10^{14}
IDC V 25 06 32 43.6–1.2 37.36N 142.44E 0 3.7,3.7
¶17204434
IDC Error ellipse: s-maj=27.4km s-min=23.6km az=116.0.
ISC V 25 07 31 28.2–.71 37.11N–.06 143.82E–.07 35 3.7b,3.3s 40 2-145
NIED V 25 07 31 00 37.20N 143.70E 5 3.9W,3.3s **¶17204436**
IDC V 25 07 31 22.9–.72 37.03N 144.00E 0 3.9,3.9L
ISCJB V 25 07 31 26.5–.52 37.15N–.05 143.77E–.04 33 3.6b,3.2s
JMA V 25 07 31 27.7–.40 37.22N 143.69E 36 3.8,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ31.00000°,λ-89.00000°. NP2:ϕ_s214.00000°,δ60.00000°,λ-91.00000°. $M_0$7.00000×10^{14}
IDC Error ellipse: s-maj=19.6km s-min=16.1km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.3km az=162.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC V 25 10 13 52.8–2.1 37.37N 144.92E 0 3.7,3.7
¶17204443
IDC Error ellipse: s-maj=48.6km s-min=32.1km az=80.0.
JMA V 25 13 43 33.3–.30 38.56N 144.60E 40 3.6
¶600622991
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 25 16 01 57.9–1.4 36.90N–.07 144.46E–.10 26 3.7b 22 3-57
IDC V 25 16 01 53.9–2.4 36.76N 144.58E 0 3.7,3.7 **¶17204458**
ISCJB V 25 16 01 56.2–.92 36.85N–.05 144.40E–.07 26 3.6b,2.6s
JMA V 25 16 01 59.5–.30 36.94N 144.30E 46 3.6,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=52.5km s-min=28.1km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.0km az=30.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 25 20 29 29.2–.69 39.70N–.04 143.49E–.04 23–4 4.9b,4.5s 323 1-146
NIED V 25 20 29 00 39.60N 143.70E 17 4.7W,4.5s **¶16545200**
IDC V 25 20 29 25.9–.55 39.62N 143.46E 0 4.7,4.6
ISCJB V 25 20 29 25.7–.00 39.67N–.03 143.46E–.04 7–6 4.8b,4.4s
JMA V 25 20 29 26.3–.20 39.68N 143.67E 30 4.8,4.4s
NEIC V 25 20 29 28.9–2.4 39.63N 143.39E 18–15 4.8b,4.4s
MOS V 25 20 29 31.0–.93 39.88N 143.23E 34 5.1b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ25.00000°,λ61.00000°. NP2:ϕ_s33.00000°,δ68.00000°,λ103.00000°. $M_0$1.20000×10^{16}
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=3.8km az=38.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.6km az=132.0. Recorded [1 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=108.6.
ISC V 25 23 01 16.8–1.1 37.50N–.06 144.81E–.08 35 3.8b 31 3-62
NIED V 25 23 01 00 37.50N 144.70E 5 3.8W **¶17204472**
IDC V 25 23 01 11.9–1.2 37.28N 145.05E 0 4.0,3.7
ISCJB V 25 23 01 14.6–.75 37.55N–.04 144.81E–.06 33 3.8b,3.7
JMA V 25 23 01 17.0–.20 37.54N 144.66E 44 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ16.00000°,λ-92.00000°. NP2:ϕ_s210.00000°,δ74.00000°,λ-90.00000°. $M_0$5.13000×10^{14}
IDC Error ellipse: s-maj=36.1km s-min=25.7km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.1km az=23.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 26 01 58 32.3–.83 36.52N–.09 142.02E–.09 26 3.5b 13 3-92
ISCJB V 26 01 58 30.5–.76 36.46N–.07 142.1E–.10 26 3.5b,3.1s **¶17204478**
IDC V 26 01 58 37.9–2.5 36.42N 141.73E 78–24 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=8.7km az=24.8.
IDC Error ellipse: s-maj=24.8km s-min=15.1km az=84.0.
ISC V 26 02 24 47.0–.86 37.42N–.05 142.99E–.08 24 4.0b 35 2-75
NIED V 26 02 24 00 37.50N 142.90E 26 3.8W **¶17204481**
IDC V 26 02 24 43.4–1.4 37.46N 143.18E 0 4.1,4.0
ISCJB V 26 02 24 45.8–.70 37.38N–.05 142.92E–.06 24 3.9b,4.0
JMA V 26 02 24 46.6–.20 37.48N 142.85E 31 3.9,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s230.00000°,δ35.00000°,λ110.00000°. NP2:ϕ_s26.00000°,δ57.00000°,λ76.00000°. $M_0$5.38000×10^{14}

IDC Error ellipse: s-maj=36.9km s-min=20.3km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.9km az=37.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA V 26 04 01 13.7–.10 37.62N 144.42E 26 3.7
¶600623352
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 26 06 00 35.5–.66 34.89N–.05 142.78E–.07 35 4.0b,3.1s 64 2-147
NIED V 26 06 00 00 34.80N 142.90E 11 4.1W,3.1s **¶16560146**
IDC V 26 06 00 30.4–.68 34.85N 142.92E 0 4.2,4.1L
JMA V 26 06 00 32.8–.40 34.80N 142.87E 47 4.1,4.1L
ISCJB V 26 06 00 33.2–.46 34.88N–.04 142.81E–.04 33 4.0b,3.2s
NEIC V 26 06 00 35.5–.48 34.88N 142.81E 35 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ30.00000°,λ-96.00000°. NP2:ϕ_s187.00000°,δ60.00000°,λ-87.00000°. $M_0$1.73000×10^{15}
IDC Error ellipse: s-maj=17.0km s-min=16.6km az=101.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=5.2km az=2.1.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.7km az=133.0.
ISC V 26 06 10 06.3–1.5 34.81N–.06 142.8E–.10 35 18 2-55
IDC V 26 06 10 02.1–2.9 34.76N 142.88E 0 3.7,3.6 **¶17204484**
ISCJB V 26 06 10 05.2–1.2 34.89N–.06 142.81E–.09 33 3.8b,3.6
JMA V 26 06 10 05.6–.40 34.83N 142.80E 50 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=63.3km s-min=32.2km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.0km az=176.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 26 06 40 34.6–.67 34.78N–.06 142.73E–.07 42 4.2b 43 1-147
NIED V 26 06 40 00 34.90N 142.70E 11 3.8W **¶16710947**
IDC V 26 06 40 29.8–.72 34.79N 142.77E 0 4.2,4.1
ISCJB V 26 06 40 33.3–.54 34.78N–.05 142.65E–.05 42 4.2b,2.5s
JMA V 26 06 40 33.0–.40 34.88N 142.74E 60 3.9,2.5s
NEIC V 26 06 40 34.8–.59 34.90N 142.72E 35 4.3b,2.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ26.00000°,λ-88.00000°. NP2:ϕ_s193.00000°,δ64.00000°,λ-91.00000°. $M_0$4.81000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=15.7km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.6km az=172.4.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=10.3km az=116.0.
JMA V 26 07 40 49.6–.20 38.24N 143.87E 16 3.5
¶600623417
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 26 09 23 22.1–1.6 36.33N–.09 142.1E–.10 19 3.5b 13 1-56
IDC V 26 09 23 19.6–2.2 36.10N 142.13E 0 3.5,3.4 **¶17204493**
ISCJB V 26 09 23 21.1–1.3 36.26N–.09 142.1E–.10 19 3.5b,3.4
JMA V 26 09 23 24.7–.30 36.29N 141.80E 75 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=59.5km s-min=28.2km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=12.3km az=26.5.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC V 26 11 37 25.6–.73 34.75N–.06 142.74E–.07 10 3.9b 33 1-78
NIED V 26 11 37 00 34.80N 142.80E 8 3.9W **¶17204503**
ISCJB V 26 11 37 24.0–.52 34.69N–.06 142.75E–.05 10 3.8b
IDC V 26 11 37 24.2–.69 34.67N 142.85E 0 4.1,4.0L
JMA V 26 11 37 26.4–.40 34.82N 142.81E 58 3.8,4.0L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ36.00000°,λ-100.00000°. NP2:ϕ_s210.00000°,δ55.00000°,λ-83.00000°. $M_0$8.30000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.1km az=16.9.
IDC Error ellipse: s-maj=21.7km s-min=15.4km az=111.0.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
ISC V 26 15 07 12.9–4.2 34.88N–.05 142.87E–.05 12–26 4.4b 105 2-147
NIED V 26 15 07 00 34.90N 142.80E 5 3.9W **¶16560149**
IDC V 26 15 07 11.0–.58 34.83N 142.91E 0 4.2,4.1
ISCJB V 26 15 07 12.1–1.4 34.81N–.04 142.86E–.03 19–10 4.2b,3.3s
JMA V 26 15 07 14.2–.30 34.95N 142.85E 45 4.2,3.3s
NEIC V 26 15 07 16.3–.26 34.83N 142.89E 35 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ30.00000°,λ-76.00000°. NP2:ϕ_s182.00000°,δ61.00000°,λ-98.00000°. $M_0$9.17000×10^{14}
IDC Error ellipse: s-maj=14.9km s-min=13.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.8km az=177.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.6km az=168.0.
JMA V 26 17 48 15.0–.20 38.52N 144.44E 39 3.5
¶600623766
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 26 18 25 09.8–.92 38.05N–.05 143.90E–.07 35 3.6b 35 2-76
NIED V 26 18 25 00 38.00N 143.90E 5 3.6W **¶17204523**
IDC V 26 18 25 05.1–.82 37.81N 144.27E 0 3.9,3.8L
ISCJB V 26 18 25 07.6–.63 38.10N–.04 143.96E–.05 33 3.7b,3.4s
JMA V 26 18 25 08.4–.20 38.05N 143.87E 42 3.9,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ38.00000°,λ-135.00000°. NP2:ϕ_s223.00000°,δ64.00000°,λ-61.00000°. $M_0$2.73000×10^{14}
IDC Error ellipse: s-maj=24.9km s-min=17.5km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.7km az=33.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 26 22 16 20.0–1.2 35.32N–.09 142.23E–.09 22 3.5b 15 1-59
IDC V 26 22 16 16.6–1.2 35.33N 142.35E 0 3.7,3.6b **¶17204534**
ISCJB V 26 22 16 17.9–.89 35.35N–.07 142.32E–.07 22 3.5b,3.6b
JMA V 26 22 16 18.2–.30 35.34N 142.36E 69 3.0,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=22.4km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=8.4km az=12.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 26 22 22 28.0–1.2 35.13N–.10 142.3E–.10 42 3.5b 8 3-59
IDC V 26 22 22 22.3–1.2 35.17N 142.47E 0 3.6,3.5b **¶17204535**
ISCJB V 26 22 22 26.0–1.0 35.15N–.10 142.3E–.10 42 3.5b,3.5b
ISC Event type ke.
ISCJB Event type ke.
JMA V 27 00 16 31.2–.10 38.26N 144.49E 20 3.6
NIED V 27 00 16 00 38.30N 144.50E 8 3.6W **¶600624036**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s50.00000°,δ21.00000°,λ-32.00000°. NP2:ϕ_s170.00000°,δ79.00000°,λ-108.00000°. $M_0$3.08000×10^{14}
ISC V 27 02 31 03.2–.73 36.54N–.05 142.43E–.06 15 3.6b 42 1-90
NIED V 27 02 31 00 36.60N 142.40E 20 3.7W **¶16631866**
ISCJB V 27 02 31 01.9–.53 36.57N–.04 142.44E–.05 15 3.7s,3.7b
IDC V 27 02 31 01.0–.95 36.48N 142.50E 0 3.9,3.9L
JMA V 27 02 31 04.1–.20 36.57N 142.40E 67 3.5,3.9L
NEIC V 27 02 31 05.6–.69 36.50N 142.49E 35 4.0b,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ45.00000°,λ65.00000°. NP2:ϕ_s27.00000°,δ50.00000°,λ113.00000°. $M_0$3.74000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.7km az=42.5.
IDC Error ellipse: s-maj=23.1km s-min=19.3km az=108.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.1km az=111.0.
JMA V 27 04 32 20.2–.20 36.91N 143.14E 39 3.6
NIED V 27 04 32 00 36.90N 143.10E 8 3.4W **¶600624182**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s315.00000°,δ69.00000°,λ-158.00000°. NP2:ϕ_s217.00000°,δ69.00000°,λ-22.00000°. $M_0$1.49000×10^{14}
ISC V 27 10 39 43.5–.73 37.90N–.05 142.64E–.06 14 3.7b 34 1-89
NIED V 27 10 39 00 38.00N 142.70E 26 3.8W **¶17204562**
ISCJB V 27 10 39 41.9–.57 37.90N–.05 142.74E–.06 14 4.4s,3.7b
IDC V 27 10 39 41.7–.74 37.86N 142.79E 0 3.9,3.8
JMA V 27 10 39 44.2–.30 37.99N 142.65E 29–4 4.0,3.8
ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s342.00000°,δ35.00000°,λ-134.00000°. NP2:ϕ_s212.00000°,δ65.00000°,λ-64.00000°. $M_0$6.31000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.7km az=137.6.
IDC Error ellipse: s-maj=19.0km s-min=15.3km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 27 11 38 53.8–1.1 37.2N–.10 143.65E–.10 35 3.5b 11 4-89
IDC V 27 11 38 48.6–1.0 37.05N 143.87E 0 3.7,3.5 **¶17204566**
ISCJB V 27 11 38 51.3–.87 37.2N–.10 143.59E–.08 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 12 51 03.2–3.2 37.62N–.04 142.08E–.05 9–20 4.0b 56 1-146
NIED V 27 12 51 00 37.60N 142.10E 8 3.9W **¶16711059**
ISCJB V 27 12 51 02.3–1.0 37.62N–.03 142.15E–.05 15–6 4.6s,3.9b
IDC V 27 12 51 02.1–.69 37.62N 142.10E 0 3.9,3.8
JMA V 27 12 51 03.3–.10 37.61N 142.12E 28–3 4.0,3.8
NEIC V 27 12 51 07.2–.34 37.62N 142.07E 35 4.4b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ23.00000°,λ-78.00000°. NP2:ϕ_s14.00000°,δ67.00000°,λ-95.00000°. $M_0$8.45000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.8km az=20.3.
IDC Error ellipse: s-maj=20.3km s-min=14.8km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=5.8km az=138.0.
ISC V 27 12 53 23.7–3.1 38.14N–.05 144.61E–.05 24–22 4.0b 59 2-83
NIED V 27 12 53 00 38.10N 144.50E 5 4.0W **¶16711060**
IDC V 27 12 53 19.5–1.0 37.92N 144.85E 0 4.0,3.9
NEIC V 27 12 53 21.5–.51 38.03N 144.82E 10 4.1b,3.9
ISCJB V 27 12 53 22.3–1.5 38.12N–.04 144.59E–.04 23–11 3.9b,3.3s
JMA V 27 12 53 24.2–.30 38.11N 144.53E 42 4.2,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ23.00000°,λ-46.00000°. NP2:ϕ_s136.00000°,δ74.00000°,λ-106.00000°. $M_0$1.25000×10^{15}
IDC Error ellipse: s-maj=25.2km s-min=18.9km az=141.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.5km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.1km az=157.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC V 27 13 13 16.8–.53 40.17N–.04 144.42E–.05 34 4.2b,3.2s 105 2-147
NIED V 27 13 13 00 40.20N 144.30E 5 4.1W,3.2s **¶16560155**
IDC V 27 13 13 11.7–.56 40.04N 144.47E 0 4.2,4.1
MOS V 27 13 13 14.4–1.1 40.13N 144.43E 31 4.4b,4.1
JMA V 27 13 13 14.9–.10 40.19N 144.32E 40 4.4,4.1
ISCJB V 27 13 13 15.4–.36 40.20N–.02 144.33E–.04 34 4.1b,3.3s
NEIC V 27 13 13 17.1–.40 40.11N 144.33E 35 4.6b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s2.00000°,δ40.00000°,λ-83.00000°. NP2:ϕ_s173.00000°,δ50.00000°,λ-96.00000°. $M_0$1.46000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=13.7km az=134.0.
MOS Error ellipse: s-maj=10.4km s-min=6.9km az=99.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.0km az=29.7.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.7km az=130.0.
ISC V 27 13 19 00.8–.64 39.78N–.05 144.35E–.06 34 4.1b 64 2-87
NIED V 27 13 18 00 39.80N 144.30E 5 3.9W **¶16560156**
IDC V 27 13 18 55.1–.72 39.58N 144.49E 0 4.2,4.0
NEIC V 27 13 18 56.9–.39 39.65N 144.45E 10 4.4b,4.0
ISCJB V 27 13 18 58.9–.47 39.75N–.03 144.33E–.05 34 4.1b,4.0
JMA V 27 13 18 58.6–.10 39.76N 144.34E 45 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ44.00000°,λ-106.00000°. NP2:ϕ_s14.00000°,δ49.00000°,λ-75.00000°. $M_0$8.89000×10^{14}
IDC Error ellipse: s-maj=17.3km s-min=15.7km az=126.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.9km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.4km az=31.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 27 13 44 58.2–3.3 40.23N–.04 144.31E–.05 28–24 3.9b 56 2-73
NIED V 27 13 44 00 40.20N 144.30E 5 3.9W **¶16711062**
IDC V 27 13 44 53.8–1.1 40.09N 144.49E 0 3.9b,3.9
ISCJB V 27 13 44 56.2–1.3 40.20N–.03 144.37E–.05 28–11 3.9b,3.2s
JMA V 27 13 44 56.9–.20 40.18N 144.33E 43 3.9,3.2s
NEIC V 27 13 44 59.2–.81 40.16N 144.28E 35 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ34.00000°,λ-93.00000°. NP2:ϕ_s182.00000°,δ56.00000°,λ-88.00000°. $M_0$7.61000×10^{14}
IDC Error ellipse: s-maj=23.8km s-min=20.3km az=120.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.7km az=30.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=9.9km az=115.0.
JMA V 27 14 52 21.6–.20 38.02N 144.75E 44 3.7
¶600624490
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 27 16 25 09.3–.77 37.82N–.06 144.06E–.07 35 4.0b 51 2-76
NIED V 27 16 25 00 37.90N 143.90E 35 3.9W **¶16711071**
IDC V 27 16 25 03.4–.69 37.63N 144.25E 0 4.1,4.0
JMA V 27 16 25 06.4–.10 37.91N 143.93E 12 4.2,4.0
ISCJB V 27 16 25 07.0–.50 37.80N–.04 144.03E–.04 33 3.9b,3.5s
NEIC V 27 16 25 08.7–.51 37.68N 144.15E 35 4.3b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s24.00000°,δ20.00000°,λ-58.00000°. NP2:ϕ_s170.00000°,δ73.00000°,λ-101.00000°. $M_0$7.74000×10^{14}
IDC Error ellipse: s-maj=16.9km s-min=14.5km az=128.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.0km az=165.1.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=8.1km az=138.0.
IDC V 27 17 32 35.8–4.1 35.27N 142.25E 0 3.5,3.4b
¶17204579
IDC Error ellipse: s-maj=129.7km s-min=26.3km az=59.0.
ISC V 27 18 45 31.3–1.1 38.99N–.07 144.58E–.08 19 3.8b 32 2-87
NIED V 27 18 45 00 39.00N 144.50E 5 3.8W **¶17204583**
IDC V 27 18 45 27.9–1.4 38.81N 144.70E 0 3.9,3.8
ISCJB V 27 18 45 30.1–.73 39.05N–.05 144.55E–.06 19 3.7b,3.5s
JMA V 27 18 45 31.6–.30 38.97N 144.53E 48 3.9,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ21.00000°,λ-81.00000°. NP2:ϕ_s177.00000°,δ69.00000°,λ-93.00000°. $M_0$4.95000×10^{14}
IDC Error ellipse: s-maj=34.0km s-min=21.8km az=153.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.5km az=44.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA V 27 19 17 14.7–.20 37.87N 144.15E 41 3.5
¶600624668
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 27 20 41 48.4–1.1 39.69N–.06 144.35E–.08 23 3.5b 32 2-68
NIED V 27 20 41 00 39.70N 144.30E 5 3.5W **¶17204589**
IDC V 27 20 41 44.3–1.4 39.56N 144.57E 0 3.6,3.5
ISCJB V 27 20 41 47.6–.84 39.76N–.05 144.30E–.06 23 3.4b,3.5
JMA V 27 20 41 48.6–.20 39.74N 144.28E 40 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ41.00000°,λ-91.00000°. NP2:ϕ_s19.00000°,δ49.00000°,λ-89.00000°. $M_0$1.95000×10^{14}
IDC Error ellipse: s-maj=34.2km s-min=23.9km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.2km az=42.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 27 20 50 36.2–1.2 37.7N–.10 144.4E–.10 35 3.4b 11 5-62
IDC V 27 20 50 31.1–1.1 37.67N 144.49E 0 3.7,3.5 **¶17204590**
ISCJB V 27 20 50 33.8–.90 37.7N–.10 144.3E–.10 33 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 21 08 41.7–1.4 39.10N–.09 143.24E–.09 16 3.3b 17 1-59
ISCJB V 27 21 08 39.0–.91 39.00N–.08 143.39E–.07 16 3.3b **¶17204591**
JMA V 27 21 08 40.8–.20 39.04N 143.26E 14–3 3.3
IDC V 27 21 08 42.7–7.5 38.97N 143.38E 32–58 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.9km az=166.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=34.0km s-min=23.5km az=103.0.
JMA V 27 22 11 02.9–.20 37.44N 142.38E 16–4 3.6
NIED V 27 22 11 00 37.40N 142.40E 5 3.4W **¶600624712**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s298.00000°,δ62.00000°,λ-176.00000°. NP2:ϕ_s206.00000°,δ86.00000°,λ-28.00000°. $M_0$1.31000×10^{14}
IDC V 27 23 08 57.7–8.6 36.44N 143.44E 0 3.6,3.5b
¶17204599
IDC Error ellipse: s-maj=189.6km s-min=45.8km az=33.0.
ISC V 28 00 10 07.5–.42 38.76N–.04 144.11E–.04 32–2 4.7b,3.6s 351 2-145
NIED V 28 00 10 00 38.80N 144.00E 5 4.4W,3.6s **¶16551234**
JMA V 28 00 10 05.2–.10 38.75N 144.01E 44 4.5,3.6s
ISCJB V 28 00 10 05.8–.18 38.76N–.03 143.95E–.02 29 4.7b,3.6s
MOS V 28 00 10 05.4–.89 38.73N 143.97E 27 4.7b,3.6s
NEIC V 28 00 10 06.8–1.0 38.67N 144.03E 27–7 4.7b,3.6s
IDC V 28 00 10 07.1–4.7 38.68N 143.99E 29–33 4.3,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ32.00000°,λ-72.00000°. NP2:ϕ_s168.00000°,δ60.00000°,λ-101.00000°. $M_0$5.08000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.3km az=163.7.
MOS Error ellipse: s-maj=7.5km s-min=5.4km az=100.3.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=135.0.
IDC Error ellipse: s-maj=15.0km s-min=11.9km az=114.0.
ISC V 28 01 39 19.5–.63 34.74N–.06 142.84E–.07 35 3.8b 41 2-147
NIED V 28 01 39 00 34.90N 142.80E 5 3.8W **¶16631876**
IDC V 28 01 39 15.0–.68 34.77N 143.05E 0 4.1L,4.0
ISCJB V 28 01 39 17.4–.49 34.74N–.05 142.81E–.04 33 3.8b,2.9s
JMA V 28 01 39 18.3–.40 34.85N 142.77E 64 3.9,2.9s
NEIC V 28 01 39 19.6–.61 34.88N 142.90E 35 4.3b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s10.00000°,δ23.00000°,λ-99.00000°. NP2:ϕ_s201.00000°,δ68.00000°,λ-86.00000°. $M_0$6.08000×10^{14}
IDC Error ellipse: s-maj=20.1km s-min=16.1km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.8km az=17.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=11.6km az=94.0.
IDC V 28 04 39 55.3–1.4 37.64N 144.36E 0 3.8,3.5
¶17204604
IDC Error ellipse: s-maj=52.1km s-min=27.5km az=122.0.
ISC V 28 04 48 31.9–1.8 37.72N–.06 144.1E–.10 35 3.6b 21 2-62
ISCJB V 28 04 48 30.3–1.1 37.69N–.05 144.08E–.08 33 3.5b **¶17204605**
JMA V 28 04 48 31.0–.20 37.76N 144.05E 44 3.5
IDC V 28 04 48 32.5–1.2 36.92N 143.96E 0 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.0km az=160.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=26.2km az=127.0.
ISC V 28 05 10 09.2–1.6 36.48N–.07 143.3E–.10 29 17 2-60
IDC V 28 05 10 05.7–8.8 36.28N 143.49E 0 3.7,3.6b **¶17204607**
ISCJB V 28 05 10 07.8–1.1 36.48N–.06 143.31E–.10 29 3.6b,3.6b
JMA V 28 05 10 09.9–.30 36.48N 143.19E 72 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=195.2km s-min=44.8km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=7.5km az=157.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 28 05 16 46.0–1.4 37.71N–.05 144.16E–.09 35 3.7b 18 2-62
ISCJB V 28 05 16 44.7–.96 37.65N–.05 144.09E–.08 33 3.8b **¶17204608**
JMA V 28 05 16 46.4–.20 37.80N 143.99E 31 3.4
IDC V 28 05 16 47.6–2.7 36.84N 143.97E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.8km az=172.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=75.4km s-min=30.0km az=59.0.
ISC V 28 07 50 48.9–.84 37.72N–.05 144.06E–.08 35 4.0b 53 2-75
NIED V 28 07 50 00 37.90N 143.90E 5 3.9W **¶16637512**
IDC V 28 07 50 43.6–.85 37.59N 144.23E 0 4.0,3.9
NEIC V 28 07 50 45.1–.51 37.65N 144.23E 10 4.5b,3.9
ISCJB V 28 07 50 46.5–.51 37.68N–.03 144.04E–.04 33 4.0b,3.9
JMA V 28 07 50 47.0–.10 37.88N 143.93E 15 4.2,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ24.00000°,λ-86.00000°. NP2:ϕ_s181.00000°,δ66.00000°,λ-92.00000°. $M_0$8.01000×10^{14}
IDC Error ellipse: s-maj=25.0km s-min=17.1km az=112.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.0km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.5km az=38.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 28 08 04 36.6–3.9 37.74N–.04 144.10E–.06 23–27 4.4b,3.0s 110 2-144
NIED V 28 08 04 00 37.80N 144.00E 5 4.2W,3.0s **¶16560160**
IDC V 28 08 04 32.6–.63 37.64N 144.16E 0 4.3,4.1
NEIC V 28 08 04 33.8–2.2 37.68N 144.17E 5–14 4.8b,4.1
ISCJB V 28 08 04 34.1–1.3 37.69N–.03 144.05E–.03 18–9 4.5b,3.1s
JMA V 28 08 04 36.6–.20 37.84N 143.99E 35 4.6,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ25.00000°,λ-90.00000°. NP2:ϕ_s187.00000°,δ65.00000°,λ-90.00000°. $M_0$2.03000×10^{15}
IDC Error ellipse: s-maj=16.6km s-min=14.0km az=141.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.0km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.3km az=145.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 28 09 58 53.2–1.4 38.90N 143.11E 0 3.6,3.4
¶17204616
IDC Error ellipse: s-maj=42.1km s-min=23.9km az=121.0.
ISC V 28 10 01 57.6–.52 36.33N–.04 142.23E–.06 23–2 4.6b,3.9s 205 1-146
NIED V 28 10 01 00 36.30N 142.20E 11 4.4W,3.9s **¶17204617**
IDC V 28 10 01 53.8–.54 36.23N 142.14E 0 4.4,4.3
ISCJB V 28 10 01 53.4–1.1 36.30N–.03 142.24E–.04 8–7 4.5b,3.7s
JMA V 28 10 01 56.7–.20 36.31N 142.16E 73 4.2,3.7s
NEIC V 28 10 01 57.8–1.2 36.31N 142.14E 24–8 4.7b,3.7s
MOS V 28 10 02 00.4–.86 36.69N 141.99E 39 4.8b,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ24.00000°,λ80.00000°. NP2:ϕ_s20.00000°,δ66.00000°,λ95.00000°. $M_0$4.77000×10^{15}
IDC Error ellipse: s-maj=13.9km s-min=11.6km az=118.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.8km az=32.2.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.0km az=123.0.
MOS Error ellipse: s-maj=8.6km s-min=5.4km az=110.9.
IDC V 28 11 17 27.6–7.3 36.92N 144.00E 0 3.7,3.5b
¶17204623
IDC Error ellipse: s-maj=152.7km s-min=36.7km az=21.0.
ISC V 28 11 25 17.9–1.2 37.92N–.06 144.55E–.09 35 3.5b 37 3-62
NIED V 28 11 25 00 37.90N 144.40E 8 3.6W **¶17204624**
IDC V 28 11 25 13.2–1.2 37.77N 144.72E 0 3.6,3.5
ISCJB V 28 11 25 16.0–.71 37.91N–.05 144.60E–.05 33 3.4b,3.5
JMA V 28 11 25 18.0–.20 37.92N 144.38E 27 3.9,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ31.00000°,λ-99.00000°. NP2:ϕ_s221.00000°,δ59.00000°,λ-85.00000°. $M_0$2.46000×10^{14}
IDC Error ellipse: s-maj=41.6km s-min=22.0km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.2km az=5.6.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 28 13 46 06.9–.38 36.32N–.03 142.16E–.04 32–2 5.1b,4.7s 689 1-147
NIED V 28 13 46 00 36.40N 142.20E 11 4.9W,4.7s **¶16551340**
IDC V 28 13 46 01.9–.48 36.26N 142.19E 0 4.9,4.8
JMA V 28 13 46 04.7–.20 36.30N 142.13E 77–5 5.0,4.8
ISCJB V 28 13 46 05.3–.70 36.33N–.02 142.07E–.02 27–4 5.1b,4.6s
BJI V 28 13 46 05.8 36.46N 141.89E 31 5.4b,5.1b
NEIC V 28 13 46 07.9–.13 36.29N 142.02E 35 5.0b,5.1b

GCMT V 28 13 46 07.9–.30 36.27N 142.32E 25–1 5.0W,5.1b
MOS V 28 13 46 08.1–.83 36.66N 142.00E 37 5.4b,4.6s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S197.00000°,δ19.00000°,λ94.00000°. NP2:ϕ_S13.00000°,δ71.00000°,λ88.00000°. $M_0$2.73000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=10.7km az=111.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.5km az=142.7.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=156.0. Felt at Ichinoseki and Kagawa. Recorded [1 JMA] in Chiba, Ibaraki and Saitama.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c43; s80,c119; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.88±.18 $M_{\theta\theta}$-0.74±.11; $M_{\phi\phi}$-2.15±.11; $M_{r\theta}$1.05±.22; $M_{\theta\phi}$-0.83±.06; $M_{\phi r}$2.73±.21; Best double couple: NP1:ϕ_S22.00000°,δ69.00000°,λ88.00000°. NP2:ϕ_S207.00000°,δ21.00000°,λ94.00000°. Principal axes: T 4.1600,Plg66.0000°,Azm289.0000°; N -0.3550,Plg2.0000°,Azm23.0000°; P -3.8110,Plg24.0000°,Azm113.0000° $M_0$3.98600×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=109.5.

ISC	**V**	**28 14 18 32.7–2.5**	**37.76N–.05**	**144.14E–.05**	**1–15**	**4.3b**	**113**	**2-88**
NIED	V	28 14 18 00	37.80N	144.00E	8	4.1W		**¶16577344**
IDC	V	28 14 18 32.0–.57	37.61N	144.22E	0	4.3,4.1L		
ISCJB	V	28 14 18 33.5–1.3	37.73N–.03	144.07E–.04	17–9	4.3b,3.2s		
JMA	V	28 14 18 35.6–.20	37.80N	144.05E	45	4.3,3.2s		
MOS	V	28 14 18 35.1–1.5	37.76N	144.25E	32	4.4b,3.2s		
NEIC	V	28 14 18 37.1–.34	37.63N	144.16E	35	4.6b,3.2s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S24.00000°,δ24.00000°,λ-92.00000°. NP2:ϕ_S206.00000°,δ66.00000°,λ-89.00000°. $M_0$1.65000×10^{15}
IDC Error ellipse: s-maj=15.5km s-min=13.4km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=162.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=6.6km az=105.8.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.2km az=149.0.

ISC	**V**	**28 14 28 57.9–2.2**	**36.22N–.04**	**142.27E–.08**	**2–13**	**3.6b**	**29**	**1-60**
IDC	V	28 14 28 58.9–2.1	36.06N	142.25E	0	3.8,3.8s		**¶600625213**
JMA	V	28 14 29 01.1–.30	36.26N	142.21E	67	3.2,3.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=47.3km s-min=22.9km az=73.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**V**	**28 14 39 41.3–.61**	**35.97N–.05**	**142.00E–.07**	**23**	**3.8b**	**40**	**1-147**
NIED	V	28 14 39 00	36.00N	142.10E	5	3.8W		**¶600625217**
IDC	V	28 14 39 37.9–.64	35.91N	142.01E	0	4.0,3.8		
ISCJB	V	28 14 39 39.3–.49	35.89N–.05	142.12E–.05	23	4.1s,3.7b		
JMA	V	28 14 39 39.4–.30	35.96N	142.14E	75–5	3.5,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S358.00000°,δ40.00000°,λ131.00000°. NP2:ϕ_S129.00000°,δ61.00000°,λ61.00000°. $M_0$6.63000×10^{14}
IDC Error ellipse: s-maj=17.6km s-min=16.2km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.0km az=145.9.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.

IDC	**V**	**28 14 55 43.4–3.9**	**35.83N**	**143.14E**	**0**	**3.6,3.6**		
								¶16711140

IDC Error ellipse: s-maj=109.1km s-min=30.4km az=54.0.

ISC	**V**	**28 14 56 04.5–.46**	**37.48N–.04**	**143.65E–.04**	**31–2**	**4.9b,4.7s**	**372**	**2-153**
IDC	V	28 14 55 59.9–.46	37.42N	143.71E	0	4.6,4.5		**¶17204636**
ISCJB	V	28 14 56 01.0–.77	37.55N–.03	143.53E–.02	12–4	4.8b,4.6s		
NIED	V	28 14 56 00	37.50N	143.50E	5	4.9W,4.6s		
JMA	V	28 14 56 02.3–.10	37.48N	143.55E	41	4.7,4.6s		
GCMT	V	28 14 56 04.9–.20	37.54N	143.64E	19–1	5.0W,4.6s		
NEIC	V	28 14 56 04.9–.28	37.42N	143.59E	35	5.0b,4.6s		
MOS	V	28 14 56 06.1–1.1	37.86N	143.40E	34	5.0b,4.4s		
BJI	V	28 14 56 07.0	37.61N	143.09E	35	5.2b,4.9s		

ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=10.5km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.1km az=165.9.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S306.00000°,δ44.00000°,λ179.00000°. NP2:ϕ_S37.00000°,δ89.00000°,λ46.00000°. $M_0$2.89000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c38; s84,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.21±.14 $M_{\theta\theta}$-2.95±.10; $M_{\phi\phi}$4.16±.12; $M_{r\theta}$0.81±.21; $M_{\theta\phi}$-0.40±.08; $M_{\phi r}$0.78±.20; Best double couple: NP1:ϕ_S219.00000°,δ80.00000°,λ-22.00000°. NP2:ϕ_S313.00000°,δ69.00000°,λ-169.00000°. Principal axes: T 4.2810,Plg8.0000°,Azm268.0000°; N -0.9570,Plg66.0000°,Azm15.0000°; P -3.3240,Plg23.0000°,Azm175.0000° $M_0$3.80200×10^{16}
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.1km az=146.0. Recorded [1 JMA] in Iwate and Miyagi.
MOS Error ellipse: s-maj=7.7km s-min=4.7km az=110.1.

ISC	**V**	**28 15 49 17.4–.88**	**37.6N–.10**	**144.3E–.10**	**10**	**3.6b**	**13**	**5-76**
ISCJB	V	28 15 49 15.4–.66	37.5N–.10	144.3E–.10	10	3.5b		**¶17204641**
IDC	V	28 15 49 15.9–.78	37.56N	144.33E	0	3.8,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=9.9km az=141.9.
IDC Error ellipse: s-maj=29.4km s-min=16.2km az=119.0.

ISC	**V**	**28 19 59 15.8–4.0**	**37.6N–.10**	**144.3E–.20**	**46–44**	**3.7b**	**26**	**2-62**
JMA	V	28 19 59 14.6–.20	37.76N	144.15E	11	3.7		**¶17204651**
ISCJB	V	28 19 59 15.9–1.4	37.67N–.07	144.24E–.10	72–18	3.5b		
IDC	V	28 19 59 18.8–2.6	36.32N	143.89E	0	3.6,3.4b		

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=10.7km az=15.4.
IDC Error ellipse: s-maj=64.7km s-min=27.4km az=49.0.

ISC	**V**	**28 22 14 15.9–1.3**	**34.75N–.08**	**142.14E–.09**	**29**	**3.5b**	**22**	**1-55**
IDC	V	28 22 14 12.2–2.0	34.76N	142.08E	0	3.7,3.6		**¶17204657**
ISCJB	V	28 22 14 13.4–.95	34.76N–.06	142.24E–.08	29	3.5b,3.6		
JMA	V	28 22 14 13.8–.20	34.72N	142.22E	49	3.0,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=22.7km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=8.1km az=38.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**28 22 18 06.7–1.9**	**34.68N–.08**	**142.4E–.10**	**76**	**3.7b**	**13**	**1-59**
IDC	V	28 22 18 00.1–2.1	34.40N	142.62E	0	3.6b,3.6		**¶17204658**
JMA	V	28 22 18 01.8–.50	34.81N	142.68E	56	3.1,3.6		
ISCJB	V	28 22 18 04.4–1.2	34.67N–.08	142.4E–.10	76	3.6b,3.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**V**	**28 22 49 51.3–1.6**	**36.11N–.06**	**142.2E–.10**	**23**	**3.5b**	**17**	**1-56**
IDC	V	28 22 49 50.5–2.3	36.08N	141.86E	0	3.6,3.6b		**¶17204660**
JMA	V	28 22 49 53.6–.30	36.25N	141.85E	71	2.8,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=51.0km s-min=23.0km az=76.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

ISC	**V**	**28 23 08 48.2–1.3**	**37.85N–.06**	**144.20E–.08**	**35**		**31**	**2-62**
ISCJB	V	28 23 08 47.0–.81	37.94N–.04	144.21E–.06	33	3.8b,3.2s		**¶17204661**
JMA	V	28 23 08 49.2–.20	37.84N	143.99E	42	3.9,3.2s		
IDC	V	28 23 08 53.9–7.9	36.44N	143.63E	0	3.8,3.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.9km az=15.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=168.8km s-min=34.8km az=26.0.

ISC	**V**	**28 23 24 01.1–.66**	**34.93N–.06**	**142.86E–.07**	**35**	**3.9b**	**45**	**2-90**
NIED	V	28 23 23 00	34.80N	142.80E	5	3.7W		**¶16632924**
IDC	V	28 23 23 56.0–.79	34.87N	142.97E	0	4.0,3.8L		
JMA	V	28 23 23 58.9–.40	34.84N	142.80E	64	3.6,3.8L		
ISCJB	V	28 23 23 59.5–.50	34.97N–.04	142.79E–.04	33	3.9b,3.1s		
NEIC	V	28 23 24 01.1–.50	34.91N	142.91E	35	4.3b,3.1s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S18.00000°,δ37.00000°,λ-95.00000°. NP2:ϕ_S204.00000°,δ54.00000°,λ-86.00000°. $M_0$4.62000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=17.7km az=85.0.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=15.1.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=10.0km az=52.0.

JMA	**V**	**29 00 11 49.6–.10**	**37.90N**	**143.94E**	**22**	**3.5**		
								¶600625563

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**29 01 11 23.9–1.6**	**39.74N–.05**	**143.23E–.07**	**19–4**	**3.6b**	**28**	**1-46**
NIED	V	29 01 11 00	39.80N	143.50E	26	3.7W		**¶17204662**
JMA	V	29 01 11 20.8–.20	39.76N	143.51E	18–4	3.9		
IDC	V	29 01 11 21.1–2.4	39.78N	143.39E	0	3.7b,3.7		
ISCJB	V	29 01 11 22.4–1.8	39.71N–.05	143.43E–.09	26–12	3.5b,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S210.00000°,δ27.00000°,λ82.00000°. NP2:ϕ_S39.00000°,δ64.00000°,λ94.00000°. $M_0$3.61000×10^{14}
ISCJB Event type ke.

ISC	**V**	**29 01 22 01.4–.66**	**34.82N–.07**	**142.70E–.08**	**10**	**4.0b**	**32**	**3-85**
ISCJB	V	29 01 21 59.1–.49	34.81N–.06	142.82E–.08	10	4.0b		**¶16560170**
IDC	V	29 01 21 59.7–.76	34.82N	142.87E	0	4.0,3.9		
NEIC	V	29 01 22 04.7–.39	34.82N	142.78E	35	4.4b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.6km az=38.8.
IDC Error ellipse: s-maj=20.5km s-min=17.2km az=104.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.9km az=121.0.

ISC	**V**	**29 03 10 01.4–1.1**	**37.77N–.06**	**142.98E–.09**	**24**	**3.6b**	**22**	**1-62**
IDC	V	29 03 09 58.1–1.2	37.64N	143.27E	0	3.7,3.6		**¶17204667**
ISCJB	V	29 03 09 59.5–.80	37.79N–.05	143.02E–.07	24	3.6b,2.6s		
NIED	V	29 03 10 00	37.80N	143.00E	11	3.6W,2.6s		
JMA	V	29 03 10 00.1–.20	37.78N	142.99E	39	3.6,2.6s		

ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=21.0km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.6km az=175.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S357.00000°,δ44.00000°,λ-64.00000°. NP2:ϕ_S143.00000°,δ51.00000°,λ-113.00000°. $M_0$2.78000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**V**	**29 03 22 05.9–3.6**	**38.08N–.05**	**143.83E–.07**	**25–26**	**4.0b**	**38**	**2-142**
NIED	V	29 03 22 00	38.10N	143.80E	29	3.7W		**¶16632928**
IDC	V	29 03 22 02.1–1.6	37.91N	143.89E	0	3.9,3.8		
ISCJB	V	29 03 22 05.1–1.0	38.03N–.04	143.81E–.07	35–10	3.9b,3.8		
JMA	V	29 03 22 05.9–.20	38.07N	143.77E	46	4.1,3.8		
NEIC	V	29 03 22 06.9–.66	38.03N	143.89E	35	4.2b,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S335.00000°,δ71.00000°,λ175.00000°. NP2:ϕ_S66.00000°,δ85.00000°,λ19.00000°. $M_0$4.16000×10^{14}
IDC Error ellipse: s-maj=37.0km s-min=20.4km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=6.6km az=24.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=8.6km az=93.0.

ISC	**V**	**29 03 26 47.9–.45**	**37.66N–.05**	**143.98E–.05**	**35**	**4.6b,3.8s**	**298**	**2-145**
NIED	V	29 03 26 00	37.60N	143.80E	5	4.3W,3.8s		**¶16551439**
IDC	V	29 03 26 41.9–.53	37.44N	144.00E	0	4.5,4.4		
NEIC	V	29 03 26 45.8–1.8	37.53N	143.93E	20–11	4.7b,4.4		
JMA	V	29 03 26 46.1–.30	37.58N	143.79E	48	4.4,4.4		
ISCJB	V	29 03 26 46.9–.22	37.69N–.03	143.82E–.03	33	4.5b,3.7s		
MOS	V	29 03 26 48.1–1.1	37.87N	143.84E	37	4.8b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S56.00000°,δ49.00000°,λ-49.00000°. NP2:ϕ_S183.00000°,δ56.00000°,λ-127.00000°. $M_0$3.25000×10^{15}
IDC Error ellipse: s-maj=14.9km s-min=12.3km az=121.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.2km az=141.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=170.6.
MOS Error ellipse: s-maj=8.3km s-min=4.7km az=101.5.

JMA	**V**	**29 04 00 26.8–.20**	**38.15N**	**144.04E**	**3**	**3.6**		
NIED	V	29 04 00 00	38.10N	144.00E	8	3.5W		**¶600625685**

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S358.00000°,δ23.00000°,λ-88.00000°. NP2:ϕ_S176.00000°,δ67.00000°,λ-91.00000°. $M_0$2.22000×10^{14}

ISC	**V**	**29 04 31 39.4–1.7**	**37.96N–.07**	**143.8E–.10**	**19**		**19**	**2-62**
ISCJB	V	29 04 31 37.8–.96	37.93N–.07	143.79E–.08	19	3.5b		**¶17204670**
IDC	V	29 04 31 37.1–1.9	37.89N	143.86E	0	3.6,3.6		
JMA	V	29 04 31 40.6–.10	38.13N	143.57E	14	3.4,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.5km az=2.4.
IDC Error ellipse: s-maj=38.9km s-min=32.0km az=96.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**V**	**29 04 35 02.4–.20**	**38.80N**	**143.89E**	**25**	**3.6**		
								¶600625701

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

JMA	**V**	**29 06 11 56.4–.30**	**36.92N**	**144.02E**	**45**	**3.8**		
								¶600625744

JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**V**	**29 06 54 01.4–1.1**	**37.48N–.07**	**142.39E–.07**	**21**	**3.6b**	**22**	**1-58**
NIED	V	29 06 53 00	37.40N	142.40E	5	3.6W		**¶17204679**
IDC	V	29 06 53 58.0–1.3	37.42N	142.56E	0	3.7,3.6		
JMA	V	29 06 53 58.8–.20	37.42N	142.43E	12–3	4.0,3.6		
ISCJB	V	29 06 53 59.5–.80	37.44N–.06	142.47E–.06	21	3.5b,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S184.00000°,δ54.00000°,λ-150.00000°. NP2:ϕ_S75.00000°,δ66.00000°,λ-40.00000°. $M_0$3.10000×10^{14}
ISCJB Event type ke.

ISC	**V**	**29 10 39 42.0–.59**	**39.60N–.05**	**143.49E–.06**	**11**	**4.2b,3.1s**	**64**	**1-87**
NIED	V	29 10 39 00	39.70N	143.60E	23	4.0W,3.1s		**¶16560172**
ISCJB	V	29 10 39 39.8–.45	39.54N–.05	143.62E–.05	11	4.1b,2.9s		
IDC	V	29 10 39 40.2–.70	39.55N	143.45E	0	4.1,4.0		
JMA	V	29 10 39 40.6–.20	39.66N	143.64E	20	4.1,4.0		
NEIC	V	29 10 39 42.4–2.6	39.56N	143.44E	13–16	4.5b,4.0		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S169.00000°,δ32.00000°,λ46.00000°. NP2:ϕ_S37.00000°,δ68.00000°,λ113.00000°. $M_0$1.23000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=146.0.
IDC Error ellipse: s-maj=17.2km s-min=15.2km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.6km az=123.0.

ISC	**V**	**29 11 26 54.5–1.1**	**39.63N–.07**	**143.5E–.10**	**11**	**3.7b**	**23**	**1-60**
NIED	V	29 11 26 00	39.70N	143.60E	17	3.7W		**¶17204692**
ISCJB	V	29 11 26 52.9–.99	39.66N–.06	143.6E–.10	11	3.5b		
IDC	V	29 11 26 52.1–1.2	39.53N	143.68E	0	3.7,3.7b		
JMA	V	29 11 26 53.0–.30	39.65N	143.60E	17–5	3.8,3.7b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S187.00000°,δ18.00000°,λ54.00000°. NP2:ϕ_S44.00000°,δ76.00000°,λ101.00000°. $M_0$4.02000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=7.0km az=31.8.
IDC Error ellipse: s-maj=27.1km s-min=21.3km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**V**	**29 11 28 37.0–.45**	**39.70N–.05**	**143.39E–.05**	**11**	**4.7b,4.2s**	**198**	**1-146**
NIED	V	29 11 28 00	39.70N	143.70E	23	4.4W,4.2s		**¶16551497**
JMA	V	29 11 28 34.7–.20	39.68N	143.68E	26	4.5,4.2s		
IDC	V	29 11 28 34.8–.56	39.63N	143.39E	0	4.4,4.3		
ISCJB	V	29 11 28 35.0–.29	39.63N–.03	143.49E–.04	11	4.5b,4.0s		
MOS	V	29 11 28 38.8–1.3	39.70N	143.36E	35	4.8b,4.0s		
NEIC	V	29 11 28 40.9–.50	39.66N	143.33E	37–4	4.7b,4.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S199.00000°,δ38.00000°,λ89.00000°. NP2:ϕ_S20.00000°,δ52.00000°,λ90.00000°. $M_0$4.06000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=11.9km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=3.3km az=44.5.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=96.7.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=3.6km az=126.0.

ISC	**V**	**29 13 11 23.4–1.6**	**36.59N–.06**	**143.2E–.10**	**35**		**16**	**2-61**
IDC	V	29 13 11 17.4–8.9	36.56N	143.54E	0	3.7,3.6b		**¶17204704**
ISCJB	V	29 13 11 21.6–1.1	36.56N–.05	143.18E–.08	33	3.7b,3.6b		

JMA V 29 13 11 22.0–.40 36.58N 143.10E 26 3.2,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=193.6km s-min=46.4km az=31.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.3km az=167.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC V 29 13 23 46.5–8.9 36.58N 143.54E 0 3.8,3.6b
¶17204705

IDC Error ellipse: s-maj=193.1km s-min=46.0km az=31.0.
ISC V 29 13 52 18.6–.70 36.52N–.05 143.46E–.07 35 4.0b 43 2-89
NIED V 29 13 52 00 36.50N 143.30E 5 3.8W **¶16560173**
IDC V 29 13 52 13.1–.84 36.40N 143.58E 0 4.1,3.9
ISCJB V 29 13 52 17.3–.56 36.62N–.05 143.44E–.04 33 4.0b,3.9
JMA V 29 13 52 17.9–.30 36.53N 143.34E 81 3.7,3.9
NEIC V 29 13 52 18.8–.56 36.54N 143.54E 35 4.3b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ31.00000°,λ-50.00000°. NP2:ϕ_s204.00000°,δ67.00000°,λ-111.00000°. $M_0$5.99000×10^{14}
IDC Error ellipse: s-maj=25.1km s-min=18.9km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.8km az=163.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=9.1km az=153.0.
JMA V 29 13 54 16.0–.30 36.51N 143.38E 64 3.7
¶600625924

JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC V 29 16 44 39.6–1.4 37.92N–.07 144.97E–.08 26 3.8b 25 3-62
ISCJB V 29 16 44 39.1–.88 37.93N–.05 144.91E–.07 26 3.8b **¶17204710**
JMA V 29 16 44 42.5–.20 37.92N 144.73E 47 4.0
IDC V 29 16 44 45.5–1.8 36.59N 144.58E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.5km az=135.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=50.1km s-min=21.6km az=62.0.
ISC V 29 18 54 58.0–.96 37.06N–.05 142.52E–.07 9 3.7b 38 1-61
ISCJB V 29 18 54 56.0–.62 37.01N–.04 142.59E–.05 9 3.8b **¶600626061**
JMA V 29 18 54 57.6–.30 37.03N 142.56E 23 3.6
IDC V 29 18 55 01.5–6.9 37.15N 142.50E 32–51 4.0,4.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=173.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=28.1km s-min=19.1km az=83.0.
IDC V 29 18 59 12.4–2.0 36.92N 144.57E 0 3.5,3.4
¶17204719

IDC Error ellipse: s-maj=57.5km s-min=23.2km az=71.0.
JMA V 29 19 40 53.0–.20 39.15N 143.74E 32 3.6
¶600626090

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 30 00 05 38.0–.53 36.59N–.04 142.68E–.04 26–3 4.7b,4.6s 324 2-160
NIED V 30 00 05 00 36.60N 142.70E 8 4.8W,4.6s **¶16551546**
IDC V 30 00 05 34.0–.83 36.59N 142.71E 0 4.4,4.4b
ISCJB V 30 00 05 33.5–.85 36.62N–.03 142.68E–.03 5–5 4.7b,4.5s
JMA V 30 00 05 35.7–.40 36.56N 142.72E 64 4.2,4.5s
MOS V 30 00 05 37.2–.99 36.70N 142.66E 28 4.9b,4.5s
NEIC V 30 00 05 38.2–1.4 36.63N 142.67E 24–10 4.8b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s215.00000°,δ43.00000°,λ103.00000°. NP2:ϕ_s18.00000°,δ49.00000°,λ78.00000°. $M_0$1.55000×10^{16}
IDC Error ellipse: s-maj=21.1km s-min=11.9km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.2km az=154.4.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=110.7.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.6km az=141.0.
JMA V 30 00 18 41.5–.20 39.75N 143.51E 19–4 3.6
¶600626210

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 30 01 04 37.2–.37 36.48N–.04 142.70E–.04 15 4.7b,4.5s 300 2-154
NIED V 30 01 04 00 36.50N 142.80E 8 4.6W,4.5s **¶16551553**
ISCJB V 30 01 04 35.5–.21 36.42N–.03 142.69E–.03 15 4.6b,4.4s
JMA V 30 01 04 36.8–.40 36.51N 142.76E 64 4.5,4.4s
NEIC V 30 01 04 37.9–2.2 36.51N 142.69E 19–13 4.8b,4.4s
MOS V 30 01 04 38.0–.97 36.38N 142.70E 33 4.9b,4.3s
IDC V 30 01 04 40.8–2.4 36.48N 142.61E 39–20 4.3,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ40.00000°,λ101.00000°. NP2:ϕ_s15.00000°,δ50.00000°,λ81.00000°. $M_0$8.85000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.8km az=163.2.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.3km az=144.0.
MOS Error ellipse: s-maj=8.8km s-min=5.2km az=124.2.
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=112.0.
JMA V 30 03 11 42.0–.20 38.45N 144.55E 36 4.0
¶600626266

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA V 30 07 20 25.0–.10 38.19N 144.36E 12 3.6
¶600626383

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 30 09 50 27.2–1.2 38.23N–.06 144.69E–.08 35 3.7b 36 3-62
IDC V 30 09 50 22.7–1.3 38.05N 144.80E 0 3.8,3.7 **¶17204750**
ISCJB V 30 09 50 26.4–.78 38.27N–.05 144.60E–.06 33 3.7b,3.7
JMA V 30 09 50 27.9–.10 38.27N 144.43E 28 4.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=39.0km s-min=20.7km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.3km az=176.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 30 09 52 51.3–2.9 37.31N–.04 142.27E–.07 8–17 4.2b 43 1-79
NIED V 30 09 52 00 37.40N 142.20E 23 3.9W **¶600626448**
JMA V 30 09 52 52.4–.20 37.38N 142.21E 11–3 4.5
NEIC V 30 09 52 54.9–.54 37.24N 142.39E 35 4.0b
IDC V 30 09 52 55.6–3.2 37.24N 142.26E 38–27 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ21.00000°,λ87.00000°. NP2:ϕ_s354.00000°,δ69.00000°,λ91.00000°. $M_0$8.92000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.6km az=130.0.
IDC Error ellipse: s-maj=22.3km s-min=15.0km az=90.0.
ISC V 30 11 25 24.7–.62 37.82N–.05 144.09E–.07 35 4.1b 61 2-88
NIED V 30 11 25 00 37.80N 144.00E 5 4.0W **¶16702299**
IDC V 30 11 25 18.9–.65 37.65N 144.21E 0 4.2,4.1
ISCJB V 30 11 25 22.7–.45 37.78N–.04 144.01E–.04 33 4.0b,4.1
JMA V 30 11 25 22.8–.20 37.82N 143.97E 38 4.3,4.1
NEIC V 30 11 25 24.4–.43 37.73N 144.14E 35 4.0b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ31.00000°,λ-82.00000°. NP2:ϕ_s185.00000°,δ60.00000°,λ-95.00000°. $M_0$1.15000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=14.1km az=135.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.8km az=178.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.8km az=123.0.
ISC V 30 12 24 50.3–.49 36.36N–.06 143.79E–.06 35 4.6b,3.3s 127 2-145
IDC V 30 12 24 44.9–.58 36.25N 143.99E 0 4.5,4.4 **¶16702303**
ISCJB V 30 12 24 48.4–.28 36.29N–.04 143.77E–.03 33 4.6b,3.4s
NEIC V 30 12 24 50.1–.30 36.26N 143.88E 35 4.8b,3.4s
MOS V 30 12 24 50.2–.91 36.61N 143.89E 34 4.8b,3.4s
JMA V 30 12 24 50.3–.20 36.40N 143.51E 121 4.4,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=12.3km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=2.9km az=162.6.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=4.6km az=159.0.
MOS Error ellipse: s-maj=9.3km s-min=6.1km az=104.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC V 30 12 30 49.3–3.2 36.07N 142.93E 0 3.5,3.4b
¶17204760

IDC Error ellipse: s-maj=91.0km s-min=30.2km az=57.0.
ISC V 30 13 25 01.6–1.4 38.64N–.09 144.7E–.20 29 3.7b 8 6-97
IDC V 30 13 24 57.5–1.5 38.59N 144.66E 0 3.7,3.6 **¶17204763**
ISCJB V 30 13 24 59.3–1.1 38.65N–.07 144.6E–.10 29 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
JMA V 30 14 45 02.5–.20 37.91N 144.26E 37 3.8
¶600626592

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 30 20 16 12.5–1.3 38.47N–.08 144.56E–.09 29 3.8b 29 2-59
IDC V 30 20 16 06.9–1.3 38.22N 144.80E 0 3.9,3.8 **¶17204782**
ISCJB V 30 20 16 11.4–.86 38.53N–.06 144.53E–.06 29 3.7b,3.8
JMA V 30 20 16 11.7–.20 38.50N 144.52E 39 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=30.0km s-min=22.5km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.8km az=146.8.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 30 20 34 27.3–.60 37.71N–.06 143.96E–.06 35 4.0b 61 2-148
NIED V 30 20 34 00 37.70N 143.90E 8 4.1W **¶16560177**
IDC V 30 20 34 21.6–.66 37.58N 144.06E 0 4.1,4.0
NEIC V 30 20 34 23.8–4.0 37.60N 144.07E 14–24 4.5b,4.0
ISCJB V 30 20 34 25.5–.47 37.74N–.04 143.90E–.04 33 4.0b,3.2s
JMA V 30 20 34 25.2–.20 37.73N 143.89E 38 4.2,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ29.00000°,λ-77.00000°. NP2:ϕ_s195.00000°,δ62.00000°,λ-97.00000°. $M_0$1.58000×10^{15}
IDC Error ellipse: s-maj=17.8km s-min=14.6km az=116.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.5km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.9km az=174.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 30 20 48 36.8–.77 38.65N–.08 144.46E–.07 29 4.0b 40 2-75
NIED V 30 20 48 00 38.60N 144.40E 5 3.9W **¶16702338**
IDC V 30 20 48 31.9–.72 38.53N 144.57E 0 4.0,3.9
ISCJB V 30 20 48 34.4–.52 38.60N–.05 144.45E–.05 29 3.9b,2.9s
JMA V 30 20 48 34.4–.20 38.64N 144.42E 29 3.9,2.9s
NEIC V 30 20 48 37.3–.51 38.57N 144.49E 35 4.4b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ25.00000°,λ-86.00000°. NP2:ϕ_s184.00000°,δ65.00000°,λ-92.00000°. $M_0$6.72000×10^{14}
IDC Error ellipse: s-maj=20.1km s-min=15.0km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.7km az=169.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.1km az=118.0.
ISC V 30 21 54 56.9–2.3 37.71N–.05 142.08E–.10 12–11 3.6b 22 1-58
IDC V 30 21 54 53.4–2.6 37.82N 142.68E 0 3.7,3.5 **¶17204790**
JMA V 30 21 54 59.2–.10 37.74N 142.10E 32–3 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=66.0km s-min=30.7km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA V 30 22 36 20.6–.20 39.63N 143.63E 15–4 3.5
NIED V 30 22 36 00 39.60N 143.60E 20 3.5W **¶600626795**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s165.00000°,δ43.00000°,λ47.00000°. NP2:ϕ_s37.00000°,δ60.00000°,λ123.00000°. $M_0$2.10000×10^{14}
ISC V 30 23 53 44.6–.73 40.32N–.04 143.31E–.04 32–4 5.0s,4.9b 446 1-154
NIED V 30 23 53 00 40.30N 143.40E 20 5.1W,4.9b **¶16551594**
JMA V 30 23 53 39.9–.20 40.26N 143.38E 10–2 5.0,4.9b
IDC V 30 23 53 39.0–.55 40.25N 143.28E 0 4.7,4.7
ISCJB V 30 23 53 42.0–.84 40.32N–.03 143.26E–.04 24–5 4.9s,4.8b
MOS V 30 23 53 44.1–.94 40.39N 143.23E 39 5.2b,5.2s
NEIC V 30 23 53 45.5–.61 40.29N 143.21E 39–5 4.9b,5.2s
GCMT V 30 23 53 45.5–.20 40.33N 143.52E 31–0 5.1W,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ21.00000°,λ56.00000°. NP2:ϕ_s26.00000°,δ73.00000°,λ102.00000°. $M_0$5.61000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
IDC Error ellipse: s-maj=14.9km s-min=13.2km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=3.1km az=36.0.
MOS Error ellipse: s-maj=7.7km s-min=4.2km az=108.1.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.2km az=125.0. Recorded [2 JMA] in Aomori.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c74; s92,c153; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.89±.20 $M_{\theta\theta}$-0.34±.12; $M_{\phi\phi}$-4.55±.13; $M_{r\theta}$1.25±.17; $M_{\theta\phi}$-0.34±.08; $M_{\phi r}$4.11±.16; Best double couple: NP1:ϕ_s13.00000°,δ66.00000°,λ96.00000°. NP2:ϕ_s178.00000°,δ25.00000°,λ77.00000°. Principal axes: T 6.5890,Plg68.0000°,Azm294.0000°; N -0.3990,Plg5.0000°,Azm190.0000° ; P -6.1880,Plg21.0000°,Azm98.0000° $M_0$6.38900×10^{16}
JMA V 31 00 43 12.4–.40 35.98N 143.74E 86 3.5
¶600626832

JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC V 31 02 22 28.5–1.2 36.97N–.06 143.88E–.08 35 3.6b 30 2-75
IDC V 31 02 22 23.8–1.4 36.74N 144.04E 0 3.8,3.5 **¶17204803**
ISCJB V 31 02 22 27.5–.89 36.94N–.05 143.78E–.06 33 3.5b,3.5
JMA V 31 02 22 28.7–.40 36.92N 143.70E 57 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=44.7km s-min=30.1km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.1km az=141.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 31 02 34 49.8–1.7 37.17N–.07 143.4E–.10 35 18 2-61
IDC V 31 02 34 37.0–14 38.19N 144.09E 0 4.2,4.2s **¶17204804**
ISCJB V 31 02 34 48.0–1.1 37.17N–.05 143.38E–.08 33 4.2s,3.8b
JMA V 31 02 34 48.6–.30 37.15N 143.31E 37 3.2,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=293.3km s-min=55.4km az=13.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.6km az=162.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC V 31 03 54 24.1–2.8 36.93N–.07 143.9E–.10 44–29 3.8b 32 2-89
NIED V 31 03 54 00 36.90N 143.70E 8 3.8W **¶16560234**
IDC V 31 03 54 18.4–1.0 36.76N 144.82E 0 3.9,3.8b
ISCJB V 31 03 54 24.2–1.1 36.90N–.04 143.74E–.07 52–12 3.7b,3.8b
JMA V 31 03 54 24.2–.30 36.88N 143.74E 64 3.8,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s52.00000°,δ27.00000°,λ-79.00000°. NP2:ϕ_s220.00000°,δ63.00000°,λ-95.00000°. $M_0$5.90000×10^{14}
IDC Error ellipse: s-maj=44.0km s-min=20.7km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=6.8km az=22.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 31 04 07 18.4–.10 37.90N 143.74E 0 3.5
¶600626925

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC V 31 05 51 09.7–1.2 37.56N–.06 143.71E–.08 35 4.1b 29 2-62
NIED V 31 05 51 00 37.50N 143.50E 5 3.7W **¶17204809**
ISCJB V 31 05 51 08.5–.82 37.58N–.04 143.70E–.06 33 4.0b,2.6s
JMA V 31 05 51 10.3–.20 37.54N 143.52E 45 3.8,2.6s
IDC V 31 05 51 13.9–5.3 37.76N 143.51E 75–54 3.9,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ22.00000°,λ-94.00000°. NP2:ϕ_s199.00000°,δ68.00000°,λ-89.00000°. $M_0$3.75000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.7km az=29.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=53.1km s-min=13.4km az=118.0.
JMA V 31 06 44 10.6–.20 37.17N 143.85E 61 3.8
NIED V 31 06 44 00 37.20N 143.90E 5 3.6W **¶600626982**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s49.00000°,δ24.00000°,λ-120.00000°. NP2:ϕ_s262.00000°,δ69.00000°,λ-77.00000°. $M_0$2.45000×10^{14}
ISC V 31 08 04 08.4–1.1 37.17N–.06 144.02E–.08 35 3.7b 30 3-75
NIED V 31 08 04 00 37.20N 143.80E 5 3.6W **¶17204816**
IDC V 31 08 04 03.3–1.0 37.01N 144.17E 0 3.9,3.8b
ISCJB V 31 08 04 06.5–.72 37.12N–.04 143.98E–.05 33 3.7b,3.3s

JMA V 31 08 04 09.0–.20 37.16N 143.84E 47 3.9,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ35.00000°,λ-94.00000°. NP2:ϕ_s243.00000°,δ55.00000°,λ-87.00000°. $M_0$2.67000×10^{14}
IDC Error ellipse: s-maj=39.3km s-min=19.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.8km az=142.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC V 31 11 26 39.1–.66 36.51N–.04 142.48E–.05 26–3 4.6b,4.2s 151 1-146
NIED V 31 11 26 00 36.50N 142.60E 8 4.7W,4.2s **¶16554412**
IDC V 31 11 26 34.8–.67 36.34N 142.50E 0 4.2,4.1
ISCJB V 31 11 26 35.7–1.0 36.50N–.03 142.58E–.04 15–7 4.4b,4.2s
JMA V 31 11 26 37.0–.20 36.45N 142.63E 64 4.1,4.2s
MOS V 31 11 26 41.3–1.1 36.88N 142.35E 35 4.9b,4.2s
NEIC V 31 11 26 51.8–.66 37.50N 141.16E 35 4.7b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ38.00000°,λ94.00000°. NP2:ϕ_s21.00000°,δ52.00000°,λ87.00000°. $M_0$1.15000×10^{16}
IDC Error ellipse: s-maj=16.9km s-min=14.6km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.9km az=43.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.6km s-min=6.2km az=108.6.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=8.3km az=146.0.
ISC V 31 16 26 11.1–.41 40.25N–.03 143.31E–.03 31–2 5.0b,4.9s 549 1-148
NIED V 31 16 26 00 40.20N 143.30E 20 5.0W,4.9s **¶16552293**
IDC V 31 16 26 06.4–.49 40.25N 143.38E 0 4.7,4.6
JMA V 31 16 26 07.9–.10 40.25N 143.35E 12–2 5.1,4.6
ISCJB V 31 16 26 08.7–.73 40.27N–.02 143.32E–.03 22–5 4.9b,4.8s
MOS V 31 16 26 10.4–1.2 40.32N 143.25E 33 5.2b,5.0s
GCMT V 31 16 26 12.4–.30 40.33N 143.51E 32–1 5.0W,5.0s
NEIC V 31 16 26 12.4–.59 40.25N 143.22E 39–5 4.9b,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ17.00000°,λ43.00000°. NP2:ϕ_s33.00000°,δ79.00000°,λ103.00000°. $M_0$3.87000×10^{16}
IDC Error ellipse: s-maj=13.6km s-min=11.4km az=114.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.6km az=136.9.
MOS Error ellipse: s-maj=6.6km s-min=3.8km az=110.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c36; s75,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.12±.21 $M_{\theta\theta}$-0.40±.12; $M_{\phi\phi}$-2.72±.13; $M_{r\theta}$1.13±.14; $M_{\theta\phi}$-0.54±.07; $M_{\phi r}$2.76±.15; Best double couple: NP1:ϕ_s19.00000°,δ68.00000°,λ95.00000°. NP2:ϕ_s187.00000°,δ23.00000°,λ79.00000°. Principal axes:
T 4.3730,Plg67.0000°,Azm297.0000°; N -0.3180,Plg4.0000°,Azm197.0000°
; P -4.0550,Plg22.0000°,Azm106.0000° $M_0$4.21400×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.3km az=135.0. Recorded [2 JMA] in Iwate and Miyagi.
ISC V 31 16 30 57.3–3.9 35.30N–.05 143.31E–.07 24–27 4.4b 85 2-146
IDC V 31 16 30 53.0–.57 35.13N 143.39E 0 4.3,4.2 **¶16580172**
ISCJB V 31 16 30 55.0–1.5 35.25N–.04 143.28E–.04 20–10 4.2b,4.1s
NEIC V 31 16 30 54.8–.33 35.18N 143.41E 10 4.8b,4.1s
JMA V 31 16 30 57.0–.30 35.25N 143.22E 76 4.4,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=15.5km s-min=13.0km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.3km az=153.9.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.8km az=142.0.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA V 31 16 58 28.4–.20 36.96N 143.77E 65 3.6
¶600627279
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 31 21 27 35.4–.59 39.87N–.04 143.38E–.04 20–2 4.6b,4.1s 297 1-87
NIED V 31 21 27 00 39.80N 143.40E 17 4.4W,4.1s **¶16554418**
IDC V 31 21 27 32.0–.56 39.79N 143.35E 0 4.4,4.4
JMA V 31 21 27 33.9–.20 39.85N 143.41E 27–5 4.5,4.4
ISCJB V 31 21 27 33.7–.91 39.81N–.03 143.38E–.04 21–6 4.6b,4.1s
MOS V 31 21 27 35.9–.99 39.87N 143.28E 34 4.9b,4.2s
NEIC V 31 21 27 36.3–.60 39.82N 143.34E 26–4 4.7b,4.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ21.00000°,λ70.00000°. NP2:ϕ_s29.00000°,δ71.00000°,λ97.00000°. $M_0$5.11000×10^{15}
IDC Error ellipse: s-maj=14.1km s-min=11.8km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.9km az=37.2.
MOS Error ellipse: s-maj=7.8km s-min=4.7km az=105.8.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=136.0.
JMA V 31 21 45 21.5–.20 37.74N 144.36E 25 3.5
¶600627440
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC V 31 22 07 49.3–2.1 39.76N–.06 143.3E–.10 39–19 3.9b 27 1-67
NIED V 31 22 07 00 39.80N 143.40E 17 3.8W **¶17204847**
JMA V 31 22 07 45.4–.20 39.83N 143.43E 21–4 4.1
ISCJB V 31 22 07 46.7–1.2 39.75N–.05 143.47E–.09 36–10 3.9b,3.2s
IDC V 31 22 07 48.6–3.3 39.73N 143.61E 43–25 3.9,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ22.00000°,λ55.00000°. NP2:ϕ_s33.00000°,δ73.00000°,λ103.00000°. $M_0$5.57000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.0km az=21.8.
IDC Error ellipse: s-maj=43.4km s-min=17.7km az=92.0.
ISC V 31 22 28 41.1–1.1 37.65N–.06 144.00E–.07 35 3.6b 39 2-62
NIED V 31 22 28 00 37.70N 143.90E 8 3.7W **¶17204852**
IDC V 31 22 28 36.5–1.2 37.44N 144.32E 0 3.8,3.8L
ISCJB V 31 22 28 38.7–.69 37.67N–.04 144.01E–.05 33 3.6b,3.8L
JMA V 31 22 28 40.9–.20 37.68N 143.86E 36 4.1,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ60.00000°,λ-24.00000°. NP2:ϕ_s173.00000°,δ70.00000°,λ-147.00000°. $M_0$4.01000×10^{14}
IDC Error ellipse: s-maj=33.3km s-min=23.5km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=30.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 01 02 36 52.3–.30 37.26N 142.56E 12–5 3.7
NIED VI 01 02 36 00 37.30N 142.60E 11 3.5W **¶600627608**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s159.00000°,δ16.00000°,λ52.00000°. NP2:ϕ_s17.00000°,δ77.00000°,λ100.00000°. $M_0$1.87000×10^{14}
ISC VI 01 03 14 13.1–.47 39.72N–.03 143.65E–.03 28–2 5.0s,4.8b 605 1-146
NIED VI 01 03 14 00 39.70N 143.80E 8 5.2W,4.8b **¶16552797**
IDC VI 01 03 14 09.2–.47 39.72N 143.67E 0 4.8,4.8s
ISCJB VI 01 03 14 10.6–.63 39.75N–.02 143.60E–.02 19–4 5.0s,4.8b
JMA VI 01 03 14 11.0–.20 39.78N 143.71E 33 5.1,4.8b
BJI VI 01 03 14 12.6 39.77N 143.45E 32 5.3s,5.2b
MOS VI 01 03 14 13.6–1.2 39.93N 143.52E 33 5.1b,5.2b
NEIC VI 01 03 14 14.4–.51 39.74N 143.57E 36–4 4.9b,5.2b
GCMT VI 01 03 14 14.4–.20 39.79N 143.84E 14–0 5.2W,5.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ32.00000°,λ59.00000°. NP2:ϕ_s28.00000°,δ63.00000°,λ108.00000°. $M_0$5.97000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=10.7km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=146.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.1km az=140.0. Recorded [1 JMA] in Iwate and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s63,c101; s110,c206; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.48±.19 $M_{\theta\theta}$-0.07±.11; $M_{\phi\phi}$-5.41±.13; $M_{r\theta}$1.91±.25; $M_{\theta\phi}$-1.17±.07; $M_{\phi r}$5.97±.35; Best double couple: NP1:ϕ_s16.00000°,δ69.00000°,λ93.00000°. NP2:ϕ_s187.00000°,δ21.00000°,λ81.00000°. Principal axes:
T 8.3140,Plg66.0000°,Azm292.0000°; N 0.1440,Plg3.0000°,Azm195.0000°
; P -8.4540,Plg24.0000°,Azm104.0000° $M_0$8.38400×10^{16}
ISC VI 01 05 44 42.1–3.1 38.07N–.05 144.48E–.05 23–23 3.6b 21 2-75
IDC VI 01 05 44 39.2–1.1 37.75N 144.64E 0 3.7,3.5 **¶17204864**
JMA VI 01 05 44 43.9–.10 38.10N 144.25E 22 3.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.2km s-min=25.3km az=155.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 01 06 22 24.7–.76 39.77N–.06 143.35E–.09 37–2 4.0b,3.1s 49 1-81
NIED VI 01 06 22 00 39.90N 143.40E 17 4.1W,3.1s **¶16722580**
JMA VI 01 06 22 20.3–.20 39.86N 143.44E 21–4 4.3,3.1s
ISCJB VI 01 06 22 22.5–.97 39.78N–.05 143.40E–.08 36–7 4.0b,3.3s
IDC VI 01 06 22 24.6–3.7 39.75N 143.28E 38–31 4.0,4.0
NEIC VI 01 06 22 25.2–.88 39.79N 143.36E 43–7 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ27.00000°,λ109.00000°. NP2:ϕ_s19.00000°,δ64.00000°,λ81.00000°. $M_0$1.78000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=5.6km az=31.9.
IDC Error ellipse: s-maj=18.8km s-min=15.5km az=107.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=6.5km az=120.0.
JMA VI 01 06 27 15.6–.30 39.85N 143.37E 19–4 3.7
NIED VI 01 06 27 00 39.90N 143.40E 23 3.5W **¶600627749**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s181.00000°,δ39.00000°,λ74.00000°. NP2:ϕ_s21.00000°,δ53.00000°,λ103.00000°. $M_0$2.28000×10^{14}
ISC VI 01 06 44 34.3–1.5 40.29N–.04 143.35E–.05 32–10 4.6b,3.9s 240 1-93
NIED VI 01 06 44 00 40.30N 143.40E 17 4.4W,3.9s **¶16558664**
JMA VI 01 06 44 30.6–.20 40.27N 143.35E 10–2 4.5,3.9s
ISCJB VI 01 06 44 30.2–.96 40.26N–.03 143.45E–.04 18–6 4.5b,3.9s
BJI VI 01 06 44 32.1 40.30N 143.23E 30 4.8b,4.8b
NEIC VI 01 06 44 32.9–1.6 40.28N 143.42E 24–11 4.7b,4.8b
MOS VI 01 06 44 32.6–1.1 40.30N 143.37E 33 4.8b,4.8b
IDC VI 01 06 44 33.8–3.8 40.21N 143.38E 33–28 4.3,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ23.00000°,λ49.00000°. NP2:ϕ_s33.00000°,δ73.00000°,λ105.00000°. $M_0$4.09000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=38.9.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.0km az=125.0. Recorded [1 JMA] in Iwate.
MOS Error ellipse: s-maj=8.8km s-min=5.0km az=103.5.
IDC Error ellipse: s-maj=15.2km s-min=12.3km az=125.0.
ISC VI 01 07 52 58.5–2.6 39.85N–.05 143.34E–.08 8–15 4.1b,3.6s 50 1-84
NIED VI 01 07 52 00 39.80N 143.40E 23 4.2W,3.6s **¶16722581**
IDC VI 01 07 52 57.0–.79 39.76N 143.27E 0 4.0,4.0b
ISCJB VI 01 07 52 58.3–1.7 39.79N–.04 143.42E–.08 22–11 4.0b,3.6s
JMA VI 01 07 52 58.6–.20 39.84N 143.41E 24–5 4.3,3.6s
NEIC VI 01 07 53 00.9–2.4 39.80N 143.27E 25–17 4.3b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ24.00000°,λ63.00000°. NP2:ϕ_s34.00000°,δ69.00000°,λ101.00000°. $M_0$2.51000×10^{15}
IDC Error ellipse: s-maj=20.4km s-min=15.9km az=99.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=5.2km az=30.4.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=7.0km az=115.0.
ISC VI 01 09 13 53.2–1.6 39.85N–.07 143.3E–.10 6 3.6b 21 1-64
NIED VI 01 09 13 00 39.90N 143.50E 26 3.7W **¶17204877**
IDC VI 01 09 13 37.1–1.1 39.18N 145.64E 0 3.8,3.7
ISCJB VI 01 09 13 50.8–1.1 39.80N–.06 143.5E–.10 6 3.6b,3.2s
JMA VI 01 09 13 52.8–.20 39.87N 143.46E 22 3.7,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s193.00000°,δ32.00000°,λ82.00000°. NP2:ϕ_s23.00000°,δ58.00000°,λ95.00000°. $M_0$4.70000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=20.0km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.1km az=30.8.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 01 11 24 50.0–.40 37.69N 144.76E 44 3.6
¶600627847
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA VI 01 16 40 56.0–.20 39.46N 143.82E 15 3.9
¶600628004
JMA Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0.
ISC VI 01 17 27 58.0–1.1 37.99N–.06 143.32E–.08 19 3.5b 24 2-62
NIED VI 01 17 27 00 38.00N 143.20E 8 3.8W **¶17204912**
IDC VI 01 17 27 54.6–1.1 37.82N 143.51E 0 3.7,3.6b
ISCJB VI 01 17 27 56.2–.82 37.93N–.05 143.30E–.07 19 3.5b,3.6b
JMA VI 01 17 27 59.3–.40 37.98N 143.16E 39 3.6,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s340.00000°,δ56.00000°,λ-144.00000°. NP2:ϕ_s228.00000°,δ60.00000°,λ-39.00000°. $M_0$5.54000×10^{14}
IDC Error ellipse: s-maj=30.4km s-min=21.4km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.1km az=141.5.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC VI 01 19 42 23.9–2.4 37.64N–.05 143.56E–.08 6–13 3.6b 30 2-62
NIED VI 01 19 42 00 38.10N 144.10E 5 3.6W **¶17204919**
JMA VI 01 19 42 23.8–.50 38.10N 144.10E 0 3.8
IDC VI 01 19 42 23.7–1.1 37.59N 144.39E 0 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s238.00000°,δ44.00000°,λ32.00000°. NP2:ϕ_s123.00000°,δ68.00000°,λ130.00000°. $M_0$2.65000×10^{14}
JMA Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=20.4km az=104.0.
JMA VI 01 23 34 38.7–.40 37.92N 144.21E 31 3.5
¶600628203
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC VI 02 00 05 59.3–3.2 36.09N–.04 142.14E–.06 2–19 4.4b,3.8s 95 1-147
ISCJB VI 02 00 05 59.6–1.3 36.05N–.03 142.21E–.06 20–8 4.4b,3.7s **¶603482744**
IDC VI 02 00 05 59.1–.80 36.07N 142.13E 0 4.1,4.1
NIED VI 02 00 06 00 36.10N 142.10E 14 4.3W,4.1
JMA VI 02 00 06 01.8–.20 36.09N 142.09E 68–4 3.8,4.1
NEIC VI 02 00 06 04.1–.89 36.01N 142.10E 35–7 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.7km az=5.8.
IDC Error ellipse: s-maj=19.5km s-min=16.7km az=111.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ39.00000°,λ104.00000°. NP2:ϕ_s14.00000°,δ52.00000°,λ79.00000°. $M_0$3.08000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.2km az=67.0.
ISC VI 02 01 00 40.4–1.5 36.18N–.05 142.1E–.10 23 3.6b 22 1-56
ISCJB VI 02 01 00 40.4–1.3 36.12N–.04 142.1E–.10 23 3.5b **¶17204929**
JMA VI 02 01 00 41.0–.20 36.11N 142.13E 58 3.2
IDC VI 02 01 00 42.4–2.9 36.56N 141.84E 0 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=5.4km az=2.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=72.3km s-min=31.6km az=59.0.
ISC VI 02 02 26 37.0–1.0 36.42N–.07 143.91E–.08 35 3.8b 30 3-70
NIED VI 02 02 26 00 36.30N 143.70E 8 3.6W **¶17204936**
IDC VI 02 02 26 32.9–1.4 36.26N 143.88E 0 3.9,3.8
ISCJB VI 02 02 26 35.6–.77 36.35N–.06 143.79E–.06 33 3.7b,3.8
JMA VI 02 02 26 37.9–.30 36.33N 143.67E 65 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ35.00000°,λ-83.00000°. NP2:ϕ_s208.00000°,δ55.00000°,λ-95.00000°. $M_0$3.16000×10^{14}
IDC Error ellipse: s-maj=33.5km s-min=26.3km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.3km az=161.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA VI 02 03 02 03.3–.20 37.62N 144.13E 3 4.1
¶600628270
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA VI 02 03 10 28.0–.20 37.60N 142.02E 25–4 3.5
¶600628278
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 02 05 33 19.6–3.9 36.99N–.05 143.80E–.07 29–27 4.2b,3.3s 88 2-150
NIED VI 02 05 33 00 37.00N 143.70E 5 4.2W,3.3s **¶16722591**

IDC VI 02 05 33 15.0–.65 36.86N 143.93E 0 4.3,4.2
NEIC VI 02 05 33 16.0–.43 36.83N 143.97E 10 4.3b,4.2
ISCJB VI 02 05 33 17.3–1.3 36.96N–.03 143.76E–.04 25–10 4.3b,3.3s
JMA VI 02 05 33 19.9–.30 37.00N 143.69E 51 4.5,3.3s
BJI VI 02 05 33 20.0 37.62N 143.57E 5 4.4b,4.1b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ38.00000°,λ-41.00000°. NP2:ϕ_s203.00000°,δ66.00000°,λ-121.00000°. $M_0$3.27000×10^{15}
IDC Error ellipse: s-maj=16.7km s-min=14.7km az=130.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.8km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=144.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 02 06 37 33.5–.95 39.12N–.07 144.31E–.07 19 3.8b 27 2-75
NIED VI 02 06 37 00 39.10N 144.10E 5 3.7W **¶17204954**
IDC VI 02 06 37 30.6–1.1 38.86N 144.54E 0 3.9,3.7
ISCJB VI 02 06 37 32.8–.81 39.10N–.06 144.22E–.06 19 4.2s,3.7b
JMA VI 02 06 37 35.4–.20 39.11N 144.12E 38 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ30.00000°,λ-49.00000°. NP2:ϕ_s167.00000°,δ68.00000°,λ-111.00000°. $M_0$3.62000×10^{14}
IDC Error ellipse: s-maj=36.4km s-min=23.2km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=147.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 02 06 59 45.5–3.5 36.71N–.04 142.27E–.07 5–22 3.6b 32 1-61
NIED VI 02 06 59 00 36.70N 142.30E 23 3.5W **¶17204960**
IDC VI 02 06 59 44.2–1.2 36.49N 142.64E 0 3.8,3.6b
JMA VI 02 06 59 46.7–.20 36.71N 142.34E 27–5 3.5,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s186.00000°,δ42.00000°,λ-100.00000°. NP2:ϕ_s20.00000°,δ49.00000°,λ-81.00000°. $M_0$2.10000×10^{14}
IDC Error ellipse: s-maj=32.5km s-min=25.8km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 02 08 33 44.9–.20 37.90N 144.33E 5 3.8
¶600628514
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 02 09 25 27.8–.63 35.83N–.05 142.06E–.05 23 3.8b,3.6s 57 1-147
NIED VI 02 09 25 00 35.90N 142.10E 5 4.3W,3.6s **¶600628548**
IDC VI 02 09 25 24.2–.70 35.71N 142.20E 0 4.1,3.9
ISCJB VI 02 09 25 25.8–.46 35.80N–.03 142.09E–.04 23 3.9b,3.5s
JMA VI 02 09 25 26.5–.20 35.85N 142.11E 57–4 3.7,3.5s
NEIC VI 02 09 25 29.4–.62 35.81N 142.12E 35 4.2b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ18.00000°,λ144.00000°. NP2:ϕ_s122.00000°,δ80.00000°,λ75.00000°. $M_0$2.70000×10^{15}
IDC Error ellipse: s-maj=18.5km s-min=15.9km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.8km az=27.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=9.7km az=140.0.
ISC VI 02 14 37 50.9–.54 37.45N–.04 142.88E–.04 29–3 4.8b,4.4s 432 2-160
NIED VI 02 14 37 00 37.50N 142.70E 17 4.7W,4.4s **¶16554499**
IDC VI 02 14 37 46.6–.45 37.45N 142.79E 0 4.6,4.6
ISCJB VI 02 14 37 48.1–.85 37.50N–.02 142.72E–.02 15–5 4.7b,4.4s
JMA VI 02 14 37 49.6–.20 37.51N 142.72E 31 4.9,4.4s
BJI VI 02 14 37 50.7 37.50N 142.70E 35 4.9b,4.7b
NEIC VI 02 14 37 50.1–1.9 37.45N 142.76E 19–11 4.9b,4.7b
MOS VI 02 14 37 51.2–1.1 37.70N 142.71E 33 4.9b,4.7b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s63.00000°,δ28.00000°,λ-77.00000°. NP2:ϕ_s229.00000°,δ63.00000°,λ-97.00000°. $M_0$1.41000×10^{16}
IDC Error ellipse: s-maj=12.4km s-min=10.9km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=158.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.5km az=136.0. Felt at Fukushima. Recorded [2 JMA] in Fukushima.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=106.6.
ISC VI 02 19 39 34.3–.90 37.86N–.06 143.98E–.08 35 3.7b 41 2-69
NIED VI 02 19 39 00 37.90N 143.90E 5 3.6W **¶600629001**
IDC VI 02 19 39 28.8–1.0 37.80N 144.21E 0 3.9,3.8
ISCJB VI 02 19 39 32.3–.58 37.87N–.05 143.97E–.05 33 3.8b,3.8
JMA VI 02 19 39 33.1–.20 37.90N 143.85E 37 4.1,3.8
NEIC VI 02 19 39 34.2–.67 37.87N 144.07E 35 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s235.00000°,δ36.00000°,λ-59.00000°. NP2:ϕ_s18.00000°,δ60.00000°,λ-111.00000°. $M_0$2.64000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=17.2km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.5km az=16.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.9km az=101.0.
ISC VI 02 20 25 28.9–1.8 37.80N–.04 142.26E–.06 8–10 4.2b,3.3s 97 1-146
NIED VI 02 20 25 00 37.80N 142.30E 29 4.1W,3.3s **¶600629039**
BJI VI 02 20 25 25.0 37.70N 142.50E 10 4.7b,4.5b
ISCJB VI 02 20 25 28.5–1.0 37.81N–.03 142.32E–.05 15–6 4.2b,3.3s
JMA VI 02 20 25 31.3–.20 37.85N 142.21E 32–3 4.1,3.3s
NEIC VI 02 20 25 32.6–2.1 37.88N 142.25E 28–14 4.4b,3.3s
IDC VI 02 20 25 35.9–2.1 37.87N 142.22E 56–17 4.1,3.9b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s350.00000°,δ57.00000°,λ-5.00000°. NP2:ϕ_s83.00000°,δ85.00000°,λ-147.00000°. $M_0$1.54000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.9km az=13.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.3km az=106.0. Recorded [1 JMA] in Fukushima, Iwate and Miyagi.
IDC Error ellipse: s-maj=15.5km s-min=11.2km az=112.0.
ISC VI 02 20 42 35.2–.70 34.65N–.06 142.80E–.08 35 3.8b 36 2-85
NIED VI 02 20 42 00 34.80N 142.80E 5 3.6W **¶16722596**
IDC VI 02 20 42 30.9–.77 34.82N 142.87E 0 3.9,3.9L
NEIC VI 02 20 42 32.2–.64 34.76N 142.80E 10 4.6b,3.9L
ISCJB VI 02 20 42 33.4–.55 34.67N–.05 142.80E–.05 33 4.1s,3.8b
JMA VI 02 20 42 33.4–.40 34.83N 142.81E 36 3.7,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s35.00000°,δ37.00000°,λ-70.00000°. NP2:ϕ_s190.00000°,δ56.00000°,λ-105.00000°. $M_0$2.84000×10^{14}
IDC Error ellipse: s-maj=22.1km s-min=16.3km az=93.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.8km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.3km az=21.3.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
ISC VI 02 21 21 36.5–1.4 35.71N–.07 142.8E–.10 59 3.5b 17 2-60
IDC VI 02 21 21 29.7–1.7 35.62N 143.17E 0 3.7,3.6 **¶17205026**
JMA VI 02 21 21 33.9–.50 35.77N 142.88E 80 3.2,3.6
ISCJB VI 02 21 21 34.8–1.1 35.67N–.05 142.81E–.09 59 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC VI 03 00 05 01.7–.34 37.30N–.02 143.97E–.02 20–1 6.4b,6.0s 2625 2-163
IDC VI 03 00 04 58.1–.30 37.20N 144.06E 0 5.9,5.9 **¶602897544**
ISCJB VI 03 00 04 59.5–.43 37.31N–.01 143.93E–.01 14–2 6.3b,5.9s
GCMT VI 03 00 05 00.8–.10 37.35N 143.96E 20–0 6.1W,5.9s
BJI VI 03 00 05 00.8 37.35N 144.00E 30 6.2s,6.1b
NEIC VI 03 00 05 00.8–.07 37.29N 143.91E 14 6.4b,6.2W
NIED VI 03 00 05 00 37.30N 143.70E 11 5.9W,6.2W
MOS VI 03 00 05 01.1–1.2 37.36N 143.98E 28 6.6b,6.0s
JMA VI 03 00 05 02.7–.30 37.30N 143.83E 57 6.1,6.0s
NEIC VI 03 00 05 03.0–.00 37.29N 143.91E 25 6.1,6.0s
NEIC VI 03 00 05 10.5–.00 37.45N 144.60E 23 6.1,6.0s
ISC Event type fe.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.4km az=168.2.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c276; s137,c504;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.41±.01 $M_{\theta\theta}$0.85±.01; $M_{\phi\phi}$0.55±.01; $M_{r\theta}$-0.37±.02; $M_{\theta\phi}$0.99±.01; $M_{\phi r}$0.41±.02; Best double couple: NP1:ϕ_s70.00000°,δ49.00000°,λ-60.00000°. NP2:ϕ_s208.00000°,δ49.00000°,λ-120.00000°. Principal axes: T 1.7100,Plg0.0000°,Azm139.0000° ; N -0.0720,Plg22.0000°,Azm229.0000°; P -1.6380,Plg68.0000°,Azm48.0000° $M_0$1.67400×10^{18}
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=154.0. Felt [III] at Tokyo. Also felt at Ichinoseki, Musashino and Sakado. Recorded [3 JMA] in Fukushima. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s39 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.24 $M_{\theta\theta}$0.36 $M_{\phi\phi}$0.88 $M_{r\theta}$0.45 $M_{\theta\phi}$0.70 $M_{\phi r}$0.01 Best double couple: NP1:ϕ_s19.00000°,δ42.00000° ,λ-115.00000°. NP2:ϕ_s230.00000°,δ53.00000°,λ-70.00000°. Principal axes: T 1.3900,Plg6.0000°,Azm306.0000°; N -0.0200,Plg16.0000°,Azm38.0000° ; P -1.3700,Plg73.0000°,Azm197.0000° $M_0$1.40000×10^{18}
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ39.00000°,λ-136.00000°. NP2:ϕ_s72.00000°,δ64.00000°,λ-60.00000°. $M_0$8.76000×10^{17}
MOS Error ellipse: s-maj=6.6km s-min=4.6km az=100.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.06 $M_{\theta\theta}$0.57 $M_{\phi\phi}$0.49 $M_{r\theta}$-0.71 $M_{\theta\phi}$0.55 $M_{\phi r}$-0.68 Best double couple: NP1:ϕ_s47.00000° ,δ66.00000°,λ-90.00000°. NP2:ϕ_s228.00000°,δ24.00000°,λ-88.00000°. Principal axes: T 1.4700,Plg21.0000°,Azm137.0000°; N -0.0200,Plg0.0000°,Azm46.0000° ; P -1.4400,Plg68.0000°,Azm315.0000° $M_0$1.50000×10^{18}
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.57 $M_{\theta\theta}$0.94 $M_{\phi\phi}$0.63 $M_{r\theta}$-1.42 $M_{\theta\phi}$1.04 $M_{\phi r}$-1.72 Best double couple: NP1:ϕ_s240.00000° ,δ19.00000°,λ-72.00000°. NP2:ϕ_s41.00000°,δ71.00000°,λ-96.00000°. Principal axes: T 2.9300,Plg26.0000°,Azm136.0000°; N -0.2300,Plg6.0000°,Azm43.0000° ; P -2.7000,Plg63.0000°,Azm302.0000° $M_0$2.80000×10^{18}
ISC VI 03 00 55 45.1–1.4 33.41N–.06 141.00E–.08 46–14 4.1b 40 1-149
ISCJB VI 03 00 55 43.4–.71 33.41N–.04 141.04E–.06 48–8 4.1b **¶16713152**
JMA VI 03 00 55 43.8–.10 33.48N 141.02E 62–4 3.8
NEIC VI 03 00 55 45.3–.85 33.31N 140.97E 51–9 4.3b
IDC VI 03 00 55 45.9–2.3 33.37N 140.96E 56–21 4.0,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.0km az=169.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.3km az=84.0.
IDC Error ellipse: s-maj=24.9km s-min=12.1km az=85.0.
ISC VI 03 02 02 15.0–.55 37.23N–.05 144.00E–.06 35 4.2b 85 2-145
NIED VI 03 02 02 00 37.20N 143.90E 5 4.4W **¶16646361**
IDC VI 03 02 02 09.3–.60 37.13N 144.18E 0 4.4,4.2
NEIC VI 03 02 02 13.4–2.9 37.09N 144.12E 29–20 4.4b,4.2
ISCJB VI 03 02 02 13.1–.37 37.22N–.04 143.90E–.04 33 4.2b,4.2
JMA VI 03 02 02 13.3–.30 37.24N 143.89E 47 4.5,4.2
BJI VI 03 02 02 28.6 37.50N 141.70E 33 4.9b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ22.00000°,λ-85.00000°. NP2:ϕ_s188.00000°,δ68.00000°,λ-92.00000°. $M_0$4.83000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=14.4km az=137.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.9km az=122.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=158.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 03 02 07 00.1–.67 37.38N–.07 143.82E–.07 32–4 3.9b 49 2-145
ISCJB VI 03 02 06 58.6–1.2 37.33N–.06 143.78E–.07 35–10 3.9b **¶17205049**
JMA VI 03 02 06 59.2–.30 37.42N 143.72E 32 4.0
IDC VI 03 02 07 00.1–.64 37.26N 143.86E 34–4 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=8.5km az=40.3.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=13.6km az=101.0.
ISC VI 03 03 28 59.7–1.0 37.40N–.07 144.37E–.08 35 3.7b 21 3-73
IDC VI 03 03 28 54.3–.95 37.19N 144.39E 0 3.8,3.6 **¶600629326**
ISCJB VI 03 03 28 58.2–.87 37.43N–.05 144.33E–.06 33 3.6b,3.6
JMA VI 03 03 28 59.9–.20 37.50N 144.12E 15 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.5km s-min=21.1km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=7.1km az=155.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 03 04 10 54.4–.55 37.60N–.05 144.01E–.06 35 4.4b,3.6s 69 2-88
NIED VI 03 04 10 00 37.60N 143.90E 5 4.3W,3.6s **¶16646366**
NEIC VI 03 04 10 50.2–2.9 37.57N 144.13E 5–18 4.5b,3.6s
ISCJB VI 03 04 10 52.6–.38 37.58N–.04 143.92E–.04 33 4.2b,3.6s
JMA VI 03 04 10 52.4–.20 37.64N 143.93E 50 4.2,3.6s
IDC VI 03 04 10 54.2–.80 37.48N 144.07E 32–4 4.1,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s23.00000°,δ20.00000°,λ-103.00000°. NP2:ϕ_s217.00000°,δ71.00000°,λ-85.00000°. $M_0$2.72000×10^{15}
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.5km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.7km az=170.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=16.6km s-min=14.9km az=111.0.
ISC VI 03 04 57 11.8–.52 34.84N–.05 142.94E–.06 35 4.2b 69 2-147
NIED VI 03 04 57 00 34.90N 142.80E 5 3.9W **¶16646369**
IDC VI 03 04 57 07.7–.63 34.89N 142.79E 0 4.3,4.2L
ISCJB VI 03 04 57 10.4–.37 34.81N–.04 142.79E–.03 33 4.3b,4.2L
JMA VI 03 04 57 10.8–.30 34.89N 142.83E 50 4.1,4.2L
NEIC VI 03 04 57 12.6–.32 34.87N 142.79E 35 4.6b,4.2L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ23.00000°,λ-90.00000°. NP2:ϕ_s186.00000°,δ67.00000°,λ-90.00000°. $M_0$8.97000×10^{14}
IDC Error ellipse: s-maj=19.0km s-min=15.3km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.1km az=9.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.1km az=105.0.
ISC VI 03 05 48 14.1–1.3 37.54N–.07 143.98E–.09 35 3.5b 23 2-58
NIED VI 03 05 48 00 37.70N 143.80E 5 3.6W **¶17205065**
IDC VI 03 05 48 08.4–1.4 37.23N 144.28E 0 3.8L,3.7
ISCJB VI 03 05 48 13.9–1.1 37.62N–.06 143.89E–.08 33 3.5b,3.7
JMA VI 03 05 48 14.0–.20 37.69N 143.75E 17 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ27.00000°,λ-84.00000°. NP2:ϕ_s190.00000°,δ63.00000°,λ-93.00000°. $M_0$2.50000×10^{14}
IDC Error ellipse: s-maj=34.0km s-min=30.4km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=8.7km az=137.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 03 07 38 10.8–.20 39.43N 144.02E 8 3.9
NIED VI 03 07 38 00 39.40N 144.00E 11 3.6W **¶600629476**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ28.00000°,λ75.00000°. NP2:ϕ_s13.00000°,δ63.00000°,λ98.00000°. $M_0$2.48000×10^{14}
ISC VI 03 08 36 39.5–1.1 37.63N–.06 143.86E–.09 35 4.0b 30 2-62
NIED VI 03 08 36 00 37.70N 143.80E 5 3.8W **¶17205076**
IDC VI 03 08 36 34.4–1.0 37.54N 144.05E 0 4.0,3.9
ISCJB VI 03 08 36 36.9–.75 37.61N–.05 143.92E–.06 33 4.0b,3.9
JMA VI 03 08 36 38.8–.10 37.74N 143.85E 34 3.7,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ18.00000°,λ-101.00000°. NP2:ϕ_s217.00000°,δ72.00000°,λ-86.00000°. $M_0$6.36000×10^{14}
IDC Error ellipse: s-maj=29.0km s-min=18.9km az=90.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.5km az=155.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 03 09 44 06.3–.20 38.68N 144.44E 42 3.4
¶603482746
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 03 10 11 52.4–1.8 37.36N–.07 143.8E–.10 35 3.6b 16 2-61
ISCJB VI 03 10 11 50.7–1.2 37.31N–.05 143.82E–.08 33 3.5b **¶17205085**
IDC VI 03 10 11 50.2–2.7 36.84N 143.98E 0 3.6,3.4
JMA VI 03 10 11 52.7–.10 37.39N 143.74E 56 3.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.5km az=160.9.
IDC Error ellipse: s-maj=75.6km s-min=29.6km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 03 15 26 26.8–.94 38.68N–.05 144.71E–.08 35 3.8b 54 2-85
NIED VI 03 15 26 00 38.70N 144.60E 5 3.8W **¶16856197**
IDC VI 03 15 26 21.2–.92 38.57N 144.96E 0 4.0,3.9
NEIC VI 03 15 26 22.8–.75 38.61N 144.86E 10 4.0b,3.9

ISCJB VI 03 15 26 24.5–.61 38.68N–.04 144.73E–.05 35 4.4s,3.8b
JMA VI 03 15 26 25.2–.20 38.71N 144.63E 31 4.2,3.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ38.00000°,λ-71.00000°. NP2:ϕ_s174.00000°,δ55.00000°,λ-104.00000°. $M_0$5.85000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=16.5km az=93.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.6km az=107.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=41.9.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 03 19 41 50.9–.75 37.33N–.06 144.09E–.08 35 4.0b 59 5-84
IDC VI 03 19 41 46.5–.88 37.28N 144.06E 0 4.0,3.9 **¶16856211**
NEIC VI 03 19 41 47.8–.39 37.34N 144.11E 10 4.3b,3.9
ISCJB VI 03 19 41 49.6–.49 37.26N–.06 143.94E–.06 33 4.2b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 04 00 25 53.7–3.8 37.57N–.05 143.95E–.07 7–24 4.2b,3.2s 74 2-88
NIED VI 04 00 25 00 37.60N 143.90E 5 4.1W,3.2s **¶16713155**
IDC VI 04 00 25 52.9–.67 37.48N 143.97E 0 4.2,4.1
ISCJB VI 04 00 25 53.2–1.4 37.55N–.03 143.85E–.04 15–10 4.1b,3.2s
JMA VI 04 00 25 55.8–.30 37.63N 143.89E 54 4.4,3.2s
NEIC VI 04 00 25 58.1–.51 37.52N 143.89E 35 4.4b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s11.00000°,δ28.00000°,λ-93.00000°. NP2:ϕ_s194.00000°,δ62.00000°,λ-89.00000°. $M_0$1.38000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=13.4km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.8km az=30.7.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.9km az=129.0.
ISC VI 04 01 15 34.1–3.4 37.07N–.05 142.22E–.07 28–25 3.9b 60 1-146
NIED VI 04 01 15 00 37.10N 142.30E 20 3.7W **¶16646370**
ISCJB VI 04 01 15 29.6–1.5 37.06N–.03 142.26E–.04 10–10 3.9b,3.4s
IDC VI 04 01 15 29.8–.68 37.01N 142.35E 0 3.9,3.8
JMA VI 04 01 15 30.7–.30 37.06N 142.27E 34 3.9,3.8
NEIC VI 04 01 15 31.7–2.5 36.99N 142.35E 12–16 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ27.00000°,λ-52.00000°. NP2:ϕ_s179.00000°,δ69.00000°,λ-107.00000°. $M_0$3.69000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.5km az=18.8.
IDC Error ellipse: s-maj=17.4km s-min=14.5km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.0km az=109.0.
ISC VI 04 01 22 06.9–.93 37.28N–.06 143.97E–.07 35 3.6b,3.5s 37 2-88
NIED VI 04 01 22 00 37.30N 143.80E 14 3.9W,3.5s **¶17205142**
IDC VI 04 01 22 01.4–.86 37.11N 144.24E 0 3.9,3.8
ISCJB VI 04 01 22 04.8–.65 37.24N–.05 143.90E–.05 33 3.7b,3.5s
JMA VI 04 01 22 05.7–.30 37.28N 143.85E 46 3.8,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s79.00000°,δ39.00000°,λ-18.00000°. NP2:ϕ_s184.00000°,δ79.00000°,λ-127.00000°. $M_0$6.77000×10^{14}
IDC Error ellipse: s-maj=21.7km s-min=18.8km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.4km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 04 05 23 26.1–1.1 37.41N–.05 143.94E–.08 35 3.6b 29 2-61
NIED VI 04 05 23 00 37.50N 143.70E 5 3.7W **¶17205161**
IDC VI 04 05 23 22.2–1.3 37.37N 144.12E 0 3.8,3.7L
ISCJB VI 04 05 23 25.1–.76 37.49N–.05 143.89E–.06 33 3.6b,2.9s
JMA VI 04 05 23 26.5–.30 37.46N 143.74E 40 3.8,2.9s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ23.00000°,λ-70.00000°. NP2:ϕ_s202.00000°,δ68.00000°,λ-98.00000°. $M_0$4.12000×10^{14}
IDC Error ellipse: s-maj=43.9km s-min=24.2km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.0km az=143.2.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 04 05 41 45.1–.73 37.22N–.05 143.93E–.07 35 3.9b,3.1s 52 2-127
NIED VI 04 05 41 00 37.10N 143.90E 5 4.1W,3.1s **¶16640732**
IDC VI 04 05 41 39.9–.73 37.04N 144.12E 0 4.2,4.0
NEIC VI 04 05 41 41.3–.56 37.12N 144.07E 10 4.6b,4.0
ISCJB VI 04 05 41 42.2–.48 37.12N–.04 143.86E–.04 33 3.9b,3.0s
JMA VI 04 05 41 42.2–.50 37.06N 143.86E 57 4.2,3.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ26.00000°,λ-72.00000°. NP2:ϕ_s200.00000°,δ66.00000°,λ-99.00000°. $M_0$1.40000×10^{15}
IDC Error ellipse: s-maj=20.9km s-min=15.7km az=118.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=9.5km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=156.9.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC VI 04 07 10 16.9–.96 37.24N–.05 143.93E–.08 35 3.9b 44 2-61
NIED VI 04 07 10 00 37.20N 143.80E 5 3.8W **¶16640734**
IDC VI 04 07 10 12.0–.94 37.08N 144.08E 0 4.0,4.0L
NEIC VI 04 07 10 13.5–.67 37.17N 144.05E 10 4.4b,4.0L
ISCJB VI 04 07 10 14.9–.60 37.20N–.04 143.87E–.05 33 4.0b,4.0L
JMA VI 04 07 10 16.6–.20 37.22N 143.79E 67 3.9,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ23.00000°,λ-84.00000°. NP2:ϕ_s186.00000°,δ67.00000°,λ-92.00000°. $M_0$6.59000×10^{14}
IDC Error ellipse: s-maj=33.1km s-min=18.3km az=106.0.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=10.1km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=40.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 04 07 41 53.2–.65 35.20N–.05 142.40E–.06 42 3.8b,3.2s 42 1-91
NIED VI 04 07 41 00 35.30N 142.30E 5 3.9W,3.2s **¶16640735**
IDC VI 04 07 41 48.6–.86 35.21N 142.35E 0 3.9,3.8
NEIC VI 04 07 41 49.9–.37 35.24N 142.34E 10 4.6b,3.8
ISCJB VI 04 07 41 51.5–.51 35.24N–.04 142.31E–.05 42 3.9b,3.2s
JMA VI 04 07 41 51.2–.30 35.29N 142.34E 52 3.6,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s191.00000°,δ37.00000°,λ-107.00000°. NP2:ϕ_s31.00000°,δ55.00000°,λ-78.00000°. $M_0$7.85000×10^{14}
IDC Error ellipse: s-maj=26.0km s-min=16.8km az=94.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=5.5km az=153.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 04 08 14 18.5–1.4 37.42N–.06 143.97E–.08 35 24 2-61
ISCJB VI 04 08 14 17.7–.94 37.40N–.04 143.87E–.07 33 3.5b,3.2s **¶17205171**
JMA VI 04 08 14 19.0–.40 37.38N 143.79E 51 3.1,3.2s
IDC VI 04 08 14 20.4–7.6 36.56N 143.65E 0 3.7,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.3km az=164.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=160.2km s-min=35.9km az=25.0.
JMA VI 04 08 51 37.5–.30 37.40N 143.81E 49 3.5 ¶600630953
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 04 09 07 52.5–1.2 37.56N–.05 143.72E–.10 35 3.6b 28 2-62
NIED VI 04 09 07 00 37.60N 143.60E 5 3.4W **¶17205174**
IDC VI 04 09 07 47.5–1.2 37.47N 143.97E 0 3.7,3.6
ISCJB VI 04 09 07 50.4–.73 37.56N–.04 143.77E–.06 33 3.6b,3.1s
JMA VI 04 09 07 52.6–.20 37.60N 143.64E 53 3.8,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s220.00000°,δ37.00000°,λ-64.00000°. NP2:ϕ_s8.00000°,δ58.00000°,λ-108.00000°. $M_0$1.34000×10^{14}
IDC Error ellipse: s-maj=34.9km s-min=21.3km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=14.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 04 10 24 45.1–1.3 36.79N–.05 142.20E–.09 19 3.5b 22 1-79
IDC VI 04 10 24 40.8–1.8 37.11N 142.40E 0 3.7,3.6 **¶17205184**
ISCJB VI 04 10 24 44.1–.90 36.79N–.05 142.23E–.07 19 3.5b,3.6
JMA VI 04 10 24 45.6–.40 36.84N 142.11E 20–5 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=30.5km az=63.0.

ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.7km az=170.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 04 11 31 06.4–2.5 36.6N–.10 142.5E–.20 15 3.6b 14 2-57
JMA VI 04 11 31 03.4–.20 36.46N 142.64E 32 3.1 **¶17205193**
IDC VI 04 11 31 06.9–2.7 37.00N 142.38E 0 3.6,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=67.6km s-min=33.3km az=61.0.
ISC VI 04 11 41 49.3–1.9 36.57N–.05 142.3E–.10 42–25 22 1-75
IDC VI 04 11 41 43.0–7.2 36.58N 142.52E 0 3.7,3.7s **¶600631056**
JMA VI 04 11 41 45.3–.30 36.56N 142.40E 18–4 3.1,3.7s
ISCJB VI 04 11 41 46.1–2.2 36.53N–.04 142.43E–.08 31–19 3.7s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 12 37 49.0–1.7 37.3N–.10 142.2E–.10 21 12 1-57
ISCJB VI 04 12 37 47.6–1.4 37.3N–.10 142.35E–.09 21 3.3b **¶17205204**
JMA VI 04 12 37 48.6–.20 37.40N 142.25E 12–3 3.4
IDC VI 04 12 37 50.0–3.5 36.76N 142.48E 0 3.5,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=9.6km az=160.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=82.4km s-min=39.9km az=54.0.
ISC VI 04 14 27 25.1–1.4 36.40N–.05 142.76E–.10 29 3.5b 29 2-60
NIED VI 04 14 27 00 36.40N 142.80E 8 3.6W **¶600631166**
ISCJB VI 04 14 27 23.4–.94 36.38N–.04 142.74E–.07 29 3.5b
JMA VI 04 14 27 23.8–.10 36.42N 142.79E 47 3.9
IDC VI 04 14 27 40.0–1.1 34.47N 137.14E 0 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ45.00000°,λ-121.00000°. NP2:ϕ_s36.00000°,δ52.00000°,λ-62.00000°. $M_0$3.06000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.1km az=161.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=21.5km az=74.0.
ISC VI 04 15 41 50.6–1.2 36.02N–.06 142.17E–.09 23 3.7b,3.5s 27 1-71
NIED VI 04 15 41 00 36.10N 142.10E 14 3.8W,3.5s **¶17205235**
IDC VI 04 15 41 46.8–1.6 35.96N 142.33E 0 3.7,3.7b
ISCJB VI 04 15 41 47.8–.81 36.06N–.05 142.22E–.08 23 3.7b,3.3s
JMA VI 04 15 41 49.3–.30 36.10N 142.08E 70 3.5,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ38.00000°,λ135.00000°. NP2:ϕ_s357.00000°,δ64.00000°,λ61.00000°. $M_0$5.13000×10^{14}
IDC Error ellipse: s-maj=35.2km s-min=19.8km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.5km az=13.3.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC VI 04 17 22 11.2–1.3 38.05N–.06 143.42E–.10 19 3.4b 24 2-62
IDC VI 04 17 22 08.8–1.9 37.93N 143.74E 0 3.6,3.5 **¶17205243**
ISCJB VI 04 17 22 10.9–.94 38.06N–.06 143.37E–.08 19 3.5b,3.5
JMA VI 04 17 22 14.7–.30 38.19N 143.23E 46 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=25.3km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.4km az=154.6.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC VI 04 20 17 53.3–2.1 37.1N–.10 142.7E–.10 9 3.5b 20 1-61
JMA VI 04 20 17 53.2–.20 37.03N 142.75E 37 3.3 **¶17205251**
IDC VI 04 20 17 57.9–1.6 37.61N 142.04E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=43.8km s-min=22.0km az=74.0.
ISC VI 05 00 55 56.1–1.2 35.24N–.06 142.34E–.10 42 3.6b 21 1-81
IDC VI 05 00 55 50.5–1.7 35.19N 142.50E 0 3.6,3.6 **¶17205265**
JMA VI 05 00 55 52.9–.40 35.28N 142.41E 43 3.4,3.6
ISCJB VI 05 00 55 54.0–.92 35.27N–.05 142.34E–.08 42 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
JMA VI 05 01 26 20.5–.20 39.40N 144.06E 19 3.6 ¶600631687
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 05 04 20 59.4–.20 37.47N 142.64E 0 3.9
NIED VI 05 04 20 00 37.50N 142.60E 11 3.3W **¶600631765**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s328.00000°,δ60.00000°,λ-166.00000°. NP2:ϕ_s231.00000°,δ78.00000°,λ-31.00000°. $M_0$8.89000×10^{13}
ISC VI 05 04 52 04.5–.60 39.86N–.05 143.56E–.07 6 4.2b,3.7s 72 1-87
NIED VI 05 04 52 00 39.90N 143.60E 17 4.3W,3.7s **¶16558752**
ISCJB VI 05 04 52 02.8–.37 39.84N–.03 143.60E–.05 6 4.2b,3.7s
IDC VI 05 04 52 03.5–.60 39.81N 143.53E 0 4.2,4.1
JMA VI 05 04 52 06.0–.20 39.89N 143.56E 32 4.4,4.1
NEIC VI 05 04 52 07.4–1.8 39.85N 143.58E 25–12 4.6b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ37.00000°,λ86.00000°. NP2:ϕ_s20.00000°,δ53.00000°,λ93.00000°. $M_0$3.72000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.1km az=32.6.
IDC Error ellipse: s-maj=15.3km s-min=12.7km az=123.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.9km az=125.0.
ISC VI 05 07 22 56.2–.64 36.76N–.06 144.38E–.07 35 3.8b 72 3-119
IDC VI 05 07 22 50.1–.71 36.56N 144.59E 0 4.0,3.9 **¶16722610**
NEIC VI 05 07 22 51.9–.40 36.58N 144.57E 10 4.1b,3.9
ISCJB VI 05 07 22 54.4–.44 36.72N–.04 144.31E–.04 33 3.8b,3.9
JMA VI 05 07 22 54.2–.40 36.68N 144.24E 32 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.5km az=148.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.3km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=168.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC VI 05 07 49 54.5–1.2 38.77N–.06 144.76E–.07 35 35 2-59
IDC VI 05 07 49 50.1–1.5 38.76N 144.70E 0 3.7,3.6L **¶17205293**
ISCJB VI 05 07 49 52.6–.79 38.81N–.04 144.77E–.05 33 3.5b,3.6L
JMA VI 05 07 49 54.2–.10 38.70N 144.56E 27 3.6,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=43.2km s-min=24.3km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.9km az=43.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 05 08 21 58.4–.62 37.65N–.05 143.93E–.06 35 3.9b 62 2-145
NIED VI 05 08 21 00 37.70N 143.90E 5 4.1W **¶16722612**
IDC VI 05 08 21 52.7–.58 37.43N 144.09E 0 4.1,4.1L
ISCJB VI 05 08 21 55.8–.44 37.51N–.04 143.88E–.05 33 3.9b,4.1L
JMA VI 05 08 21 56.3–.10 37.73N 143.86E 25 4.4,4.1L
NEIC VI 05 08 21 57.9–.44 37.48N 144.03E 35 4.3b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ24.00000°,λ-76.00000°. NP2:ϕ_s186.00000°,δ67.00000°,λ-96.00000°. $M_0$1.37000×10^{15}
IDC Error ellipse: s-maj=17.1km s-min=13.3km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=39.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=7.3km az=135.0.
ISC VI 05 10 14 04.7–3.7 37.58N–.04 143.97E–.07 7–24 3.8b 59 2-69
NIED VI 05 10 14 00 37.60N 143.80E 5 3.7W **¶16640740**
IDC VI 05 10 14 04.2–.88 37.45N 144.02E 0 4.0L,3.9
ISCJB VI 05 10 14 05.9–1.4 37.61N–.03 143.89E–.05 24–12 3.7b,3.3s
NEIC VI 05 10 14 05.1–.70 37.46N 144.12E 10 4.0b,3.3s
JMA VI 05 10 14 07.3–.20 37.61N 143.83E 41 4.1,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ26.00000°,λ-100.00000°. NP2:ϕ_s221.00000°,δ65.00000°,λ-85.00000°. $M_0$4.71000×10^{14}
IDC Error ellipse: s-maj=23.1km s-min=15.5km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.7km az=14.6.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=9.2km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 05 11 33 50.5–.63 37.60N–.05 143.85E–.07 35 4.0b 60 2-88
NIED VI 05 11 33 00 37.50N 143.80E 5 4.0W **¶16640742**

IDC VI 05 11 33 45.0–.61 37.51N 144.01E 0 4.1,4.0
NEIC VI 05 11 33 46.4–.40 37.55N 144.01E 10 4.4b,4.0
ISCJB VI 05 11 33 48.0–.42 37.51N–.04 143.86E–.04 33 4.0b,4.0
JMA VI 05 11 33 48.8–.30 37.54N 143.80E 50 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ38.00000°,λ-104.00000°. NP2:ϕ_s215.00000°,δ53.00000°,λ-79.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=13.1km az=127.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.1km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=138.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 05 12 42 52.7–.93 37.24N–.06 142.35E–.06 10 3.6b 27 1-69
IDC VI 05 12 42 50.9–1.0 37.18N 142.62E 0 3.7,3.6 **¶17205319**
ISCJB VI 05 12 42 51.2–.69 37.25N–.05 142.41E–.06 10 3.5b,3.6
JMA VI 05 12 42 54.6–.30 37.27N 142.21E 22–4 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=17.6km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.3km az=150.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 05 13 12 08.8–.80 36.16N–.05 142.39E–.07 18 3.9b 40 1-75
IDC VI 05 13 12 05.3–1.2 36.14N 142.59E 0 3.8,3.8 **¶16646375**
ISCJB VI 05 13 12 06.4–.60 36.20N–.03 142.50E–.05 18 3.8b,3.8
JMA VI 05 13 12 08.1–.30 36.17N 142.49E 71 3.1,3.8
NEIC VI 05 13 12 10.4–.90 36.21N 142.51E 35 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=20.4km az=96.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.8km az=18.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=10.7km az=123.0.
ISC VI 05 14 55 57.7–1.2 37.51N–.06 144.49E–.08 35 3.6b 42 3-62
IDC VI 05 14 55 53.2–1.3 37.37N 144.60E 0 3.7,3.7L **¶17205335**
ISCJB VI 05 14 55 55.9–.71 37.50N–.04 144.48E–.06 33 3.5b,3.7L
JMA VI 05 14 55 57.8–.20 37.54N 144.35E 42 4.1,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=40.8km s-min=22.4km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.0km az=146.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 05 15 04 19.0–.75 36.96N–.05 142.58E–.07 9 3.6b 28 2-77
ISCJB VI 05 15 04 17.3–.60 36.96N–.04 142.66E–.07 9 3.5b **¶17205336**
IDC VI 05 15 04 18.0–.84 36.91N 142.58E 0 3.8,3.7
JMA VI 05 15 04 18.5–.50 37.00N 142.79E 34 3.3,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.8km az=178.1.
IDC Error ellipse: s-maj=21.3km s-min=18.0km az=115.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
ISC VI 05 15 43 48.5–1.0 38.97N–.07 144.34E–.08 19 3.7b 26 2-74
IDC VI 05 15 43 44.7–1.1 38.93N 144.69E 0 3.7,3.6 **¶17205338**
ISCJB VI 05 15 43 47.6–.85 39.00N–.05 144.31E–.07 19 3.6b,3.6
JMA VI 05 15 43 50.0–.20 39.04N 143.95E 0 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=31.6km s-min=20.5km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.8km az=30.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC VI 05 17 14 16.8–2.0 36.29N 142.74E 0 3.3,3.3b
¶603482755
IDC Error ellipse: s-maj=53.7km s-min=32.3km az=79.0.
ISC VI 05 17 33 24.5–1.1 39.00N–.06 144.32E–.09 19 3.5b 29 2-59
IDC VI 05 17 33 22.1–1.3 38.87N 144.41E 0 3.5,3.5 **¶17205346**
ISCJB VI 05 17 33 23.6–.84 39.08N–.05 144.32E–.07 19 3.4b,3.5
JMA VI 05 17 33 26.1–.20 39.04N 144.26E 47 3.3,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=37.0km s-min=22.4km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=37.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 05 19 59 28.8–.20 36.98N 143.73E 35 3.6
NIED VI 05 19 59 00 37.00N 143.70E 8 3.6W **¶600632382**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ60.00000°,λ-13.00000°. NP2:ϕ_s188.00000°,δ79.00000°,λ-149.00000°. $M_0$3.22000×10^{14}
ISC VI 05 20 06 43.9–.00 36.30N–.05 142.53E–.07 15 3.4b 28 1-90
ISCJB VI 05 20 06 42.8–.70 36.31N–.04 142.63E–.06 15 3.8s,3.5b **¶17205353**
IDC VI 05 20 06 42.5–.97 36.19N 142.79E 0 3.7,3.6
JMA VI 05 20 06 44.1–.20 36.31N 142.59E 28 3.2,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.2km az=161.3.
IDC Error ellipse: s-maj=27.7km s-min=19.9km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 05 22 22 29.9–.95 35.74N–.05 142.97E–.08 50 3.7b 38 2-90
IDC VI 05 22 22 23.5–1.0 35.66N 143.11E 0 3.7,3.6 **¶17205366**
ISCJB VI 05 22 22 28.0–.66 35.79N–.04 142.92E–.05 50 3.6b,3.6
JMA VI 05 22 22 28.1–.30 35.79N 142.89E 79 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=19.1km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=30.1.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
JMA VI 05 22 29 00.2–.30 37.43N 143.86E 40 3.8
¶600632506
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC VI 05 22 44 31.1–.66 36.77N–.05 143.55E–.06 35 4.1b 83 2-145
NIED VI 05 22 44 00 36.80N 143.50E 8 4.0W **¶16856430**
IDC VI 05 22 44 25.7–.70 36.58N 143.68E 0 4.0,3.9
ISCJB VI 05 22 44 28.8–.35 36.75N–.03 143.47E–.04 33 4.2b,3.9
JMA VI 05 22 44 28.9–.20 36.78N 143.47E 56 4.4,3.9
NEIC VI 05 22 44 30.8–.22 36.57N 143.59E 35 4.7b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ42.00000°,λ-57.00000°. NP2:ϕ_s4.00000°,δ56.00000°,λ-116.00000°. $M_0$1.24000×10^{15}
IDC Error ellipse: s-maj=18.0km s-min=16.0km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=4.0km az=163.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.9km az=153.0.
ISC VI 05 22 45 31.3–1.3 36.7N–.10 143.1E–.20 29 4.0b 10 4-75
IDC VI 05 22 45 26.7–1.4 36.70N 143.15E 0 4.1,4.0 **¶17205369**
ISCJB VI 05 22 45 29.3–1.1 36.7N–.10 143.0E–.20 29 4.0b,3.3s
ISC Event type ke.
ISCJB Event type ke.
JMA VI 06 00 00 23.3–.30 37.52N 144.07E 19 3.8
¶600632568
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC VI 06 00 19 21.7–1.5 36.68N–.06 143.37E–.10 35 3.4b 22 2-145
NIED VI 06 00 19 00 36.80N 143.40E 5 3.5W **¶17205373**
ISCJB VI 06 00 19 19.9–1.2 36.68N–.06 143.38E–.09 33 3.5b
JMA VI 06 00 19 19.8–.20 36.76N 143.41E 46 3.6
IDC VI 06 00 19 19.0–1.4 36.23N 143.55E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ35.00000°,λ-117.00000°. NP2:ϕ_s211.00000°,δ59.00000°,λ-72.00000°. $M_0$2.13000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.5km az=157.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.6km s-min=26.8km az=73.0.
ISC VI 06 00 46 43.6–.35 39.91N–.04 143.05E–.04 12 4.6b,3.5s 204 1-87
NIED VI 06 00 46 00 39.70N 143.70E 26 4.2W,3.5s **¶16577398**
JMA VI 06 00 46 38.3–.20 39.67N 143.65E 18 4.4,3.5s
ISCJB VI 06 00 46 41.8–.23 39.86N–.03 143.08E–.04 12 4.6b,3.5s
IDC VI 06 00 46 43.3–4.7 39.61N 143.41E 31–34 4.1,4.1
BJI VI 06 00 46 43.2 39.76N 143.38E 41 4.7b,4.6b
MOS VI 06 00 46 44.4–1.2 39.90N 143.10E 33 4.7b,4.6b
NEIC VI 06 00 46 47.7–.52 39.91N 143.00E 42–5 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ31.00000°,λ62.00000°. NP2:ϕ_s42.00000°,δ63.00000°,λ106.00000°. $M_0$2.01000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.1km az=40.9.
IDC Error ellipse: s-maj=19.0km s-min=13.3km az=102.0.
MOS Error ellipse: s-maj=8.6km s-min=5.4km az=95.6.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.7km az=130.0.
ISC VI 06 02 54 48.5–2.8 37.27N–.05 142.02E–.07 5–17 3.3b 23 1-57
NIED VI 06 02 54 00 37.30N 141.90E 44 3.6W **¶17205378**
JMA VI 06 02 54 52.3–.20 37.30N 141.87E 26–3 3.5
IDC VI 06 02 54 55.0–4.0 37.19N 141.99E 52–39 3.5,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ39.00000°,λ-88.00000°. NP2:ϕ_s79.00000°,δ51.00000°,λ-92.00000°. $M_0$2.63000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=25.3km az=66.0.
ISC VI 06 04 57 21.7–3.6 37.00N–.08 143.0E–.10 10–22 3.8b 17 2-69
IDC VI 06 04 57 23.6–1.9 36.39N 143.62E 0 3.8,3.7b **¶17205387**
JMA VI 06 04 57 29.0–.30 37.16N 142.55E 10–5 3.4,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=56.6km s-min=29.4km az=70.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA VI 06 05 29 22.7–.20 38.14N 144.24E 34 3.8
NIED VI 06 05 29 00 38.10N 144.20E 8 3.5W **¶600632831**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ36.00000°,λ-71.00000°. NP2:ϕ_s173.00000°,δ56.00000°,λ-103.00000°. $M_0$1.70000×10^{14}
ISC VI 06 07 50 20.1–2.3 36.39N–.05 142.32E–.07 5–14 4.2b 81 1-90
NIED VI 06 07 50 00 36.40N 142.40E 8 3.8W **¶16577401**
BJI VI 06 07 50 16.5 36.07N 142.75E 15 4.7b,4.5b
IDC VI 06 07 50 19.0–.77 36.34N 142.42E 0 4.1,4.0
ISCJB VI 06 07 50 20.1–1.2 36.40N–.03 142.37E–.04 16–8 4.1b,3.3s
NEIC VI 06 07 50 20.7–.37 36.36N 142.42E 10 4.8b,3.3s
JMA VI 06 07 50 21.7–.20 36.42N 142.35E 71 3.7,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ48.00000°,λ33.00000°. NP2:ϕ_s20.00000°,δ66.00000°,λ133.00000°. $M_0$4.98000×10^{14}
IDC Error ellipse: s-maj=19.3km s-min=16.2km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.6km az=17.1.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.8km az=137.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 06 08 16 07.4–1.2 36.48N–.06 143.76E–.09 35 3.7b 27 2-89
NIED VI 06 08 16 00 36.50N 143.70E 8 3.7W **¶17205396**
IDC VI 06 08 16 02.5–1.4 36.44N 144.03E 0 3.9,3.8
ISCJB VI 06 08 16 06.0–.77 36.49N–.04 143.72E–.06 33 3.8b,3.1s
JMA VI 06 08 16 07.0–.40 36.46N 143.68E 49 3.8,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ26.00000°,λ-99.00000°. NP2:ϕ_s223.00000°,δ65.00000°,λ-86.00000°. $M_0$3.60000×10^{14}
IDC Error ellipse: s-maj=37.9km s-min=27.0km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.1km az=171.3.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 06 09 27 59.6–1.3 37.70N–.07 144.13E–.08 35 20 2-62
ISCJB VI 06 09 27 58.4–.88 37.71N–.06 144.10E–.07 33 3.3b **¶17205400**
JMA VI 06 09 28 00.9–.20 37.78N 143.93E 32 3.1
IDC VI 06 09 28 05.8–8.1 36.31N 143.39E 0 3.7,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=7.8km az=20.7.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=179.1km s-min=45.4km az=34.0.
ISC VI 06 10 34 00.4–1.3 38.87N–.06 144.24E–.08 23 22 2-63
IDC VI 06 10 33 51.0–15 39.85N 144.78E 0 3.6,3.4L **¶17205407**
ISCJB VI 06 10 33 58.8–.91 38.91N–.05 144.45E–.07 23 3.5b,3.4L
JMA VI 06 10 33 58.9–.20 38.69N 144.43E 41 3.4,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=340.7km s-min=65.3km az=179.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.4km az=35.4.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 06 11 38 54.8–.81 35.25N–.06 142.19E–.08 22 3.8b 23 1-91
IDC VI 06 11 38 51.3–.83 35.17N 142.20E 0 3.8,3.7 **¶17205408**
ISCJB VI 06 11 38 52.9–.64 35.25N–.05 142.26E–.06 22 3.6b,2.9s
JMA VI 06 11 38 53.5–.40 35.28N 142.35E 63 3.4,2.9s
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=17.5km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=7.0km az=140.7.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
ISC VI 06 12 40 28.1–3.6 35.32N–.06 142.37E–.10 23–25 22 1-59
IDC VI 06 12 40 25.6–1.9 35.36N 142.31E 0 3.3,3.3 **¶17205412**
ISCJB VI 06 12 40 27.7–1.3 35.37N–.05 142.43E–.09 35–16 3.3b,3.3
JMA VI 06 12 40 28.5–.30 35.30N 142.37E 57 3.0,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=46.1km s-min=28.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=7.6km az=11.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 06 16 39 42.7–1.3 37.84N–.07 143.4E–.10 19 3.7b 26 2-69
NIED VI 06 16 39 00 37.90N 143.30E 5 3.6W **¶17205419**
IDC VI 06 16 39 40.3–1.5 37.84N 143.45E 0 3.7,3.7b
ISCJB VI 06 16 39 41.0–.90 37.85N–.06 143.34E–.10 19 3.6b,3.7b
JMA VI 06 16 39 41.5–.20 37.86N 143.27E 26 3.8,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s329.00000°,δ43.00000°,λ-41.00000°. NP2:ϕ_s91.00000°,δ63.00000°,λ-125.00000°. $M_0$3.31000×10^{14}
IDC Error ellipse: s-maj=36.8km s-min=19.3km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.3km az=21.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 06 17 00 04.1–1.9 37.69N–.04 142.14E–.07 8–11 34 1-62
NIED VI 06 17 00 00 37.70N 142.00E 38 3.5W **¶17205421**
IDC VI 06 17 00 04.8–1.8 37.51N 142.30E 0 3.6b,3.6
JMA VI 06 17 00 07.5–.10 37.69N 142.01E 31–3 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ69.00000°,λ4.00000°. NP2:ϕ_s114.00000°,δ87.00000°,λ159.00000°. $M_0$1.86000×10^{14}
IDC Error ellipse: s-maj=36.8km s-min=28.8km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 06 18 11 00.8–.91 36.69N–.05 143.66E–.08 35 3.5b 31 2-89
NIED VI 06 18 10 00 36.70N 143.80E 8 3.5W **¶17205425**
IDC VI 06 18 10 55.8–.90 36.68N 143.79E 0 3.6,3.5
JMA VI 06 18 10 57.7–.60 36.71N 143.83E 71 3.6,3.5
ISCJB VI 06 18 10 59.4–.68 36.70N–.05 143.61E–.06 33 3.5b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s338.00000°,δ48.00000°,λ-161.00000°. NP2:ϕ_s235.00000°,δ76.00000°,λ-44.00000°. $M_0$1.76000×10^{14}
ISCJB Event type ke.
ISC VI 06 18 52 23.0–.36 37.59N–.04 143.71E–.04 32–1 5.0b,4.4s 593 2-153
NIED VI 06 18 52 00 37.60N 143.50E 5 4.9W,4.4s **¶16558936**
IDC VI 06 18 52 18.2–.43 37.53N 143.73E 0 4.8,4.7
JMA VI 06 18 52 20.8–.20 37.59N 143.64E 45 4.9,4.7
ISCJB VI 06 18 52 23.6–.15 37.60N–.02 143.52E–.02 42 4.9b,4.4s
MOS VI 06 18 52 23.9–.92 37.89N 143.52E 33 5.2b,4.3s
NEIC VI 06 18 52 24.2–.47 37.55N 143.60E 37–4 4.9b,4.3s
BJI VI 06 18 52 25.6 37.71N 143.28E 51 5.0b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ39.00000°,λ-107.00000°. NP2:ϕ_s217.00000°,δ53.00000°,λ-77.00000°. $M_0$2.18000×10^{16}
IDC Error ellipse: s-maj=13.5km s-min=10.3km az=108.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.3km az=165.1.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=2.9km az=145.0. Recorded [1 JMA] in Miyagi.
ISC VI 06 20 29 54.8–1.3 34.96N–.07 142.02E–.09 29 3.9b 17 1-59
JMA VI 06 20 29 51.8–.50 34.87N 142.18E 55 2.9 **¶17205431**
IDC VI 06 20 29 51.3–1.7 34.96N 142.02E 0 3.6,3.5

ISCJB VI 06 20 29 52.2–.96 34.97N–.06 142.12E–.08 29 3.8b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 06 22 17 26.6–1.3 35.78N–.04 143.01E–.08 50 3.6b 31 2-60
IDC VI 06 22 17 24.4–2.5 35.40N 143.03E 0 3.6,3.5 **¶17205435**
ISCJB VI 06 22 17 26.3–.81 35.77N–.04 142.90E–.06 50 3.5b,3.1s
JMA VI 06 22 17 26.7–.30 35.82N 142.84E 83 3.3,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=27.4km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.4km az=5.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 06 22 54 37.3–1.3 37.59N–.05 143.74E–.08 35 28 2-58
NIED VI 06 22 54 00 37.60N 143.60E 5 3.5W **¶17205436**
IDC VI 06 22 54 32.4–3.2 37.56N 144.03E 0 3.9,3.6
ISCJB VI 06 22 54 36.5–.93 37.54N–.04 143.65E–.07 33 3.6b,3.6
JMA VI 06 22 54 37.0–.20 37.60N 143.61E 41 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s39.00000°,δ36.00000°,λ-84.00000°. NP2:ϕ_s212.00000°,δ54.00000°,λ-94.000000°. $M_0$2.12000×10^{14}
IDC Error ellipse: s-maj=76.3km s-min=38.9km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.9km az=0.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 06 23 15 39.3–.62 38.54N–.05 143.39E–.06 15 4.1b,3.0s 55 1-117
NIED VI 06 23 15 00 38.50N 143.40E 5 4.1W,3.0s **¶16856523**
ISCJB VI 06 23 15 37.6–.47 38.50N–.04 143.51E–.05 15 4.1b,3.1s
IDC VI 06 23 15 37.1–.71 38.43N 143.43E 0 4.0,3.9
JMA VI 06 23 15 38.1–.20 38.53N 143.44E 12 4.4,3.9
NEIC VI 06 23 15 42.4–.44 38.50N 143.39E 35 4.5b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ59.00000°,λ-31.00000°. NP2:ϕ_s144.00000°,δ63.00000°,λ-145.00000°. $M_0$1.53000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.8km az=173.3.
IDC Error ellipse: s-maj=19.0km s-min=16.1km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.8km az=130.0.
JMA VI 06 23 19 21.6–.20 37.60N 143.60E 46 3.6
NIED VI 06 23 19 00 37.60N 143.60E 5 3.6W **¶600633404**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ47.00000°,λ-66.00000°. NP2:ϕ_s7.00000°,δ48.00000°,λ-113.00000°. $M_0$2.54000×10^{14}
ISC VI 06 23 58 24.7–1.3 36.66N–.04 142.38E–.08 15 21 1-57
NIED VI 06 23 58 00 36.70N 142.50E 20 3.6W **¶17205438**
IDC VI 06 23 58 22.0–3.1 36.67N 142.59E 0 3.8,3.7
ISCJB VI 06 23 58 22.6–1.0 36.67N–.04 142.53E–.09 15 3.5b,3.7
JMA VI 06 23 58 22.6–.40 36.68N 142.48E 13 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ25.00000°,λ78.00000°. NP2:ϕ_s29.00000°,δ65.00000°,λ96.00000°. $M_0$2.60000×10^{14}
IDC Error ellipse: s-maj=62.6km s-min=32.9km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.9km az=0.2.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 07 00 06 50.9–1.5 36.71N–.05 142.35E–.09 10 3.6b 26 1-57
NIED VI 07 00 06 00 36.70N 142.40E 14 3.5W **¶600633444**
ISCJB VI 07 00 06 49.1–1.1 36.66N–.04 142.49E–.08 10 3.4b
JMA VI 07 00 06 49.4–.50 36.69N 142.42E 9–5 3.6
IDC VI 07 00 06 54.0–2.7 37.28N 142.06E 0 3.6,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ28.00000°,λ81.00000°. NP2:ϕ_s26.00000°,δ62.00000°,λ95.00000°. $M_0$1.82000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.4km az=16.4.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=67.4km s-min=30.3km az=58.0.
ISC VI 07 01 06 42.0–1.4 36.78N–.04 142.14E–.05 38–4 4.5b,3.8s 197 1-146
NIED VI 07 01 06 00 36.70N 142.20E 26 4.3W,3.8s **¶16577409**
IDC VI 07 01 06 34.5–.61 36.67N 142.10E 0 4.3,4.3
JMA VI 07 01 06 37.0–.40 36.74N 142.21E 34 4.4,4.3
ISCJB VI 07 01 06 38.3–.98 36.88N–.03 142.12E–.03 28–7 4.7b,3.8s
BJI VI 07 01 06 39.3 36.83N 142.02E 39 4.7b,4.6b
NEIC VI 07 01 06 41.6–.46 36.94N 142.05E 38–4 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ23.00000°,λ77.00000°. NP2:ϕ_s35.00000°,δ68.00000°,λ95.00000°. $M_0$3.58000×10^{15}
IDC Error ellipse: s-maj=15.4km s-min=13.6km az=122.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.3km az=152.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=2.6km az=140.0.
ISC VI 07 03 52 28.7–1.6 40.20N–.04 143.43E–.06 16–8 4.3b,3.6s 114 1-87
NIED VI 07 03 52 00 40.30N 143.40E 20 4.2W,3.6s **¶16577412**
IDC VI 07 03 52 26.3–.69 40.21N 143.45E 0 4.3,4.2
JMA VI 07 03 52 27.3–.30 40.26N 143.41E 5–3 4.4,4.2
ISCJB VI 07 03 52 27.5–1.2 40.19N–.03 143.50E–.05 19–8 4.3b,3.5s
BJI VI 07 03 52 28.5 40.24N 143.37E 26 4.7b,4.6b
NEIC VI 07 03 52 30.2–1.4 40.21N 143.47E 26–9 4.5b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ29.00000°,λ59.00000°. NP2:ϕ_s34.00000°,δ65.00000°,λ106.00000°. $M_0$2.46000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=12.9km az=109.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.3km az=31.2.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=109.0.
ISC VI 07 04 41 34.1–.89 37.54N–.05 143.70E–.08 35 3.7b 30 2-88
NIED VI 07 04 41 00 37.60N 143.60E 5 3.7W **¶17205448**
IDC VI 07 04 41 29.1–.94 37.53N 143.87E 0 3.9,3.7L
ISCJB VI 07 04 41 32.4–.64 37.54N–.05 143.64E–.05 33 3.7b,3.2s
JMA VI 07 04 41 33.0–.30 37.64N 143.60E 41 3.7,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ36.00000°,λ-81.00000°. NP2:ϕ_s179.00000°,δ54.00000°,λ-96.00000°. $M_0$3.82000×10^{14}
IDC Error ellipse: s-maj=25.4km s-min=18.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.0km az=164.3.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 07 06 29 13.9–2.5 35.21N–.06 142.3E–.10 25–15 18 1-55
IDC VI 07 06 29 12.4–2.5 35.07N 142.10E 0 3.6,3.5b **¶600633638**
JMA VI 07 06 29 14.4–.40 35.29N 142.31E 52 3.2,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=47.7km s-min=29.0km az=77.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC VI 07 06 52 29.6–1.0 39.28N–.06 143.72E–.08 11 3.7b 37 1-73
ISCJB VI 07 06 52 28.3–.69 39.32N–.04 143.76E–.05 11 3.6b **¶17205459**
JMA VI 07 06 52 29.7–.20 39.25N 143.79E 33 3.8
IDC VI 07 06 52 33.6–4.4 39.28N 143.69E 38–34 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=35.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=42.7km s-min=25.7km az=147.0.
ISC VI 07 07 09 49.0–.58 37.57N–.04 143.93E–.06 35 4.1b 72 2-88
NIED VI 07 07 09 00 37.60N 143.90E 5 4.2W **¶16640744**
IDC VI 07 07 09 44.0–.64 37.43N 144.08E 0 4.1,4.1L
NEIC VI 07 07 09 45.5–.42 37.46N 144.05E 10 4.4b,4.1L
JMA VI 07 07 09 46.4–.30 37.58N 143.92E 43 4.2,4.1L
ISCJB VI 07 07 09 47.1–.40 37.52N–.03 143.86E–.04 33 4.0b,4.1L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ20.00000°,λ-82.00000°. NP2:ϕ_s185.00000°,δ70.00000°,λ-93.00000°. $M_0$1.92000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC VI 07 07 39 51.7–1.2 37.25N–.07 143.89E–.09 35 3.7b 27 2-76
NIED VI 07 07 39 00 37.30N 143.70E 5 3.6W **¶600633704**
IDC VI 07 07 39 46.5–1.1 37.17N 144.07E 0 3.8,3.7
ISCJB VI 07 07 39 49.6–.77 37.21N–.05 143.90E–.06 33 3.6b,3.0s
JMA VI 07 07 39 52.7–.20 37.28N 143.75E 59 3.8,3.0s

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ45.00000°,λ-94.00000°. NP2:ϕ_s30.00000°,δ46.00000°,λ-86.00000°. $M_0$2.82000×10^{14}
IDC Error ellipse: s-maj=28.3km s-min=20.1km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.5km az=176.1.
JMA Error ellipse: s-maj=1.8km s-min=1.8km az=-1.0.
ISC VI 07 07 53 12.3–.71 37.53N–.05 143.95E–.07 35 4.0b 45 2-73
NIED VI 07 07 53 00 37.60N 143.80E 5 4.0W **¶16640746**
IDC VI 07 07 53 07.7–.75 37.44N 144.07E 0 4.1,4.0
NEIC VI 07 07 53 08.9–.58 37.48N 144.08E 10 4.3b,4.0
ISCJB VI 07 07 53 10.5–.54 37.54N–.04 143.91E–.05 33 4.0b,3.1s
JMA VI 07 07 53 11.3–.20 37.63N 143.84E 35 4.1,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ21.00000°,λ-96.00000°. NP2:ϕ_s205.00000°,δ69.00000°,λ-88.00000°. $M_0$9.65000×10^{14}
IDC Error ellipse: s-maj=22.2km s-min=15.2km az=106.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=8.8km az=105.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.4km az=38.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 07 14 25 21.0–.91 36.93N–.05 143.33E–.08 35 3.8b 38 2-61
NIED VI 07 14 25 00 37.00N 143.30E 5 3.8W **¶17205491**
IDC VI 07 14 25 17.1–1.1 36.73N 143.46E 0 3.9,3.8
ISCJB VI 07 14 25 19.4–.69 36.95N–.04 143.28E–.06 33 3.6b,3.8
JMA VI 07 14 25 19.6–.20 36.95N 143.26E 47 3.5,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ19.00000°,λ-118.00000°. NP2:ϕ_s222.00000°,δ74.00000°,λ-81.00000°. $M_0$4.79000×10^{14}
IDC Error ellipse: s-maj=26.7km s-min=19.3km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.3km az=4.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 07 14 35 52.8–.73 38.57N–.05 144.70E–.07 29 3.8b 52 2-87
NIED VI 07 14 35 00 38.60N 144.60E 5 3.8W **¶16679579**
IDC VI 07 14 35 48.1–.77 38.48N 144.86E 0 4.0,3.8
ISCJB VI 07 14 35 50.7–.52 38.58N–.04 144.70E–.04 29 3.8b,2.9s
JMA VI 07 14 35 51.8–.20 38.59N 144.62E 31 4.0,2.9s
NEIC VI 07 14 35 53.3–3.9 38.51N 144.72E 33–28 4.1b,2.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s30.00000°,δ20.00000°,λ-86.00000°. NP2:ϕ_s206.00000°,δ70.00000°,λ-92.00000°. $M_0$6.29000×10^{14}
IDC Error ellipse: s-maj=22.5km s-min=16.5km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.8km az=154.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=9.2km az=122.0.
ISC VI 07 15 06 59.3–.81 38.16N–.06 143.79E–.08 19 3.8b 30 2-95
IDC VI 07 15 06 56.7–1.1 38.14N 143.91E 0 3.9,3.8 **¶17205493**
ISCJB VI 07 15 06 58.2–.69 38.13N–.06 143.71E–.06 19 3.8b,3.8
NIED VI 07 15 07 00 38.30N 143.40E 8 3.6W,3.8
JMA VI 07 15 07 01.0–.20 38.29N 143.42E 4–4 3.7,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=28.2km s-min=20.2km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.2km az=161.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ45.00000°,λ-100.00000°. NP2:ϕ_s29.00000°,δ46.00000°,λ-80.00000°. $M_0$2.71000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC VI 07 18 03 02.6–.77 36.94N–.05 143.24E–.07 35 3.6b 45 2-89
IDC VI 07 18 02 57.7–.78 36.86N 143.36E 0 3.9,3.7 **¶17205503**
ISCJB VI 07 18 03 00.8–.55 36.95N–.04 143.21E–.04 33 3.7b,3.4s
NIED VI 07 18 03 00 37.00N 143.20E 5 3.8W,3.4s
JMA VI 07 18 03 01.5–.20 36.97N 143.18E 60 3.5,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=16.5km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=138.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s7.00000°,δ20.00000°,λ-126.00000°. NP2:ϕ_s224.00000°,δ73.00000°,λ-78.00000°. $M_0$5.51000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 07 18 55 43.8–.20 37.98N 144.25E 44 3.8
¶600634102
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 07 19 04 27.5–1.3 35.73N–.06 142.97E–.09 35 3.5b 20 2-60
IDC VI 07 19 04 23.1–2.4 35.66N 143.10E 0 3.5,3.4 **¶17205506**
ISCJB VI 07 19 04 26.4–.95 35.70N–.06 142.90E–.08 33 3.4b,3.4
JMA VI 07 19 04 28.1–.30 35.85N 142.77E 95 2.9,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=57.4km s-min=28.1km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=8.1km az=153.5.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 07 20 59 53.8–1.3 37.80N–.06 144.13E–.09 35 3.6b 30 2-62
IDC VI 07 20 59 49.5–1.7 37.62N 144.21E 0 3.7,3.6 **¶17205514**
ISCJB VI 07 20 59 51.8–.77 37.81N–.04 144.13E–.06 33 3.7b,3.6
JMA VI 07 20 59 53.6–.30 37.75N 143.98E 50 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=37.9km s-min=23.2km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.6km az=32.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 07 22 52 04.2–1.4 37.48N–.06 144.70E–.10 35 4.0b 25 3-62
NIED VI 07 22 52 00 37.60N 144.40E 8 3.6W **¶17205518**
IDC VI 07 22 52 00.3–1.8 37.44N 144.78E 0 4.1,4.1
ISCJB VI 07 22 52 04.1–.94 37.43N–.06 144.53E–.07 33 4.1b,3.1s
JMA VI 07 22 52 05.3–.20 37.60N 144.45E 31 3.8,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ24.00000°,λ-82.00000°. NP2:ϕ_s204.00000°,δ66.00000°,λ-94.00000°. $M_0$3.22000×10^{14}
IDC Error ellipse: s-maj=46.9km s-min=24.5km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=8.0km az=36.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 07 23 19 09.8–2.5 36.3N–.10 142.4E–.20 15 14 1-45
IDC VI 07 23 19 07.7–9.6 36.33N 142.42E 0 3.5b,3.3 **¶600634259**
JMA VI 07 23 19 07.5–.20 36.19N 142.53E 75 3.0,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=161.6km s-min=79.5km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 08 00 17 33.1–1.1 37.61N–.06 144.04E–.08 35 3.6b 21 2-58
NIED VI 08 00 17 00 37.70N 143.90E 5 3.6W **¶17205520**
IDC VI 08 00 17 29.1–1.5 37.48N 144.11E 0 3.8,3.7
ISCJB VI 08 00 17 31.5–.90 37.70N–.05 143.99E–.07 33 3.7b,3.7
JMA VI 08 00 17 33.1–.20 37.72N 143.87E 40 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ32.00000°,λ-104.00000°. NP2:ϕ_s224.00000°,δ59.00000°,λ-81.00000°. $M_0$2.69000×10^{14}
IDC Error ellipse: s-maj=37.0km s-min=26.4km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.5km az=23.1.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA VI 08 03 04 13.7–.20 38.00N 144.45E 24 3.9
¶600634426
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA VI 08 03 12 26.3–.30 37.94N 144.46E 28 3.9
NIED VI 08 03 12 00 37.90N 144.50E 59 3.8W **¶600634428**
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s137.00000°,δ38.00000°,λ96.00000°. NP2:ϕ_s310.00000°,δ52.00000°,λ86.00000°. $M_0$6.38000×10^{14}
ISC VI 08 06 01 46.2–1.2 37.68N–.06 144.19E–.08 35 3.7b 24 2-58
IDC VI 08 06 01 42.4–1.4 37.53N 144.28E 0 3.9,3.8L **¶17205535**
ISCJB VI 08 06 01 45.3–.92 37.75N–.06 144.10E–.07 33 3.6b,3.8L
JMA VI 08 06 01 46.4–.20 37.75N 143.98E 40 3.4,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=25.6km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.9km az=28.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 08 06 02 56.1–.10 37.77N 143.85E 32 3.6
¶600634537
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC VI 08 08 28 50.7–3.7 38.61N–.05 144.30E–.06 25–26 4.4b,3.4s 83 2-144
NIED VI 08 08 28 00 38.60N 144.20E 5 4.1W,3.4s **¶16720884**
IDC VI 08 08 28 46.6–.58 38.48N 144.33E 0 4.3,4.2
ISCJB VI 08 08 28 49.5–1.2 38.64N–.03 144.21E–.04 28–9 4.3b,3.4s
JMA VI 08 08 28 50.0–.10 38.59N 144.17E 36 4.5,3.4s
NEIC VI 08 08 28 52.0–.39 38.55N 144.29E 35 4.6b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ32.00000°,λ-68.00000°. NP2:ϕ_s188.00000°,δ60.00000°,λ-103.00000°. $M_0$1.83000×10^{15}
IDC Error ellipse: s-maj=15.3km s-min=12.4km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.8km az=130.0.
ISC VI 08 09 48 44.1–1.3 37.88N–.07 144.57E–.09 35 3.3b 15 3-58
JMA VI 08 09 48 39.6–.30 37.86N 144.73E 54 3.7 **¶17205549**
IDC VI 08 09 48 39.4–1.4 37.73N 144.70E 0 3.6,3.4b
ISCJB VI 08 09 48 42.0–1.0 37.75N–.07 144.52E–.08 33 3.5b,3.4b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 08 11 32 58.4–1.4 38.39N–.04 144.64E–.08 29–11 4.0b,3.4s 75 2-118
NIED VI 08 11 32 00 38.40N 144.50E 5 4.0W,3.4s **¶16856658**
NEIC VI 08 11 32 54.9–.41 38.27N 144.74E 10 4.3b,3.4s
JMA VI 08 11 32 57.4–.20 38.44N 144.45E 21 4.4,3.4s
IDC VI 08 11 32 58.4–4.5 38.28N 144.69E 33–34 4.0,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ21.00000°,λ-92.00000°. NP2:ϕ_s199.00000°,δ69.00000°,λ-89.00000°. $M_0$1.09000×10^{15}
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.9km az=122.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=18.1km s-min=14.6km az=110.0.
JMA VI 08 14 39 48.9–.10 38.41N 144.20E 27 3.7
NIED VI 08 14 39 00 38.40N 144.20E 5 3.5W **¶600634880**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s16.00000°,δ32.00000°,λ-79.00000°. NP2:ϕ_s183.00000°,δ58.00000°,λ-97.00000°. $M_0$2.11000×10^{14}
JMA VI 08 15 46 12.3–.20 37.60N 142.03E 25–3 3.8
NIED VI 08 15 46 00 37.60N 142.00E 71 3.8W **¶600634949**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s252.00000°,δ47.00000°,λ123.00000°. NP2:ϕ_s28.00000°,δ52.00000°,λ60.00000°. $M_0$4.91000×10^{14}
ISC VI 08 20 24 56.5–1.9 38.24N–.09 143.3E–.10 23 14 2-58
JMA VI 08 20 24 56.5–.20 38.50N 143.36E 24 3.6 **¶17205572**
IDC VI 08 20 25 09.2–6.6 37.42N 143.10E 65–52 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=49.0km s-min=23.5km az=60.0.
ISC VI 08 22 22 08.4–1.1 37.62N–.09 143.7E–.10 35 3.7b 17 4-75
IDC VI 08 22 22 03.4–1.3 37.57N 143.72E 0 3.8,3.7 **¶17205575**
ISCJB VI 08 22 22 06.5–1.1 37.6N–.10 143.7E–.10 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 09 00 55 35.9–.87 37.51N–.06 144.71E–.08 35 3.8b 35 3-88
NIED VI 09 00 55 00 37.60N 144.50E 11 3.8W **¶16720889**
IDC VI 09 00 55 30.5–.89 37.31N 144.93E 0 4.0,3.8
ISCJB VI 09 00 55 34.4–.69 37.51N–.06 144.61E–.06 33 3.7b,3.8
JMA VI 09 00 55 35.3–.30 37.63N 144.51E 24 4.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ32.00000°,λ-68.00000°. NP2:ϕ_s212.00000°,δ61.00000°,λ-103.00000°. $M_0$5.40000×10^{14}
IDC Error ellipse: s-maj=26.8km s-min=19.7km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.8km az=0.1.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 09 02 44 51.2–2.2 38.36N–.07 143.8E–.10 42–31 3.6b 22 2-59
ISCJB VI 09 02 44 49.4–1.2 38.34N–.05 143.88E–.08 52–20 3.4b **¶17205587**
JMA VI 09 02 44 49.8–.20 38.37N 143.80E 31 3.1
IDC VI 09 02 44 49.9–2.7 37.71N 143.96E 0 3.5,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.3km az=27.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=69.9km s-min=31.7km az=64.0.
JMA VI 09 04 06 19.0–.10 38.54N 144.47E 33 3.9
¶600635491
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 09 04 31 23.8–2.2 38.35N–.05 144.16E–.05 7–13 4.3b,3.7s 116 2-118
NIED VI 09 04 31 00 38.40N 143.90E 5 4.3W,3.7s **¶16593320**
IDC VI 09 04 31 22.7–.54 38.23N 144.16E 0 4.3,4.2
MOS VI 09 04 31 23.6–1.1 38.36N 144.13E 18 4.5b,4.2
NEIC VI 09 04 31 24.7–.31 38.33N 144.15E 10 4.5b,4.2
ISCJB VI 09 04 31 24.1–1.4 38.41N–.04 144.01E–.04 16–10 4.2b,3.6s
JMA VI 09 04 31 26.4–.10 38.39N 143.94E 40 4.4,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ47.00000°,λ-10.00000°. NP2:ϕ_s172.00000°,δ83.00000°,λ-137.00000°. $M_0$3.20000×10^{15}
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=135.0.
MOS Error ellipse: s-maj=9.1km s-min=5.8km az=96.5.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.1km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=153.5.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 09 04 59 14.7–.20 38.11N 144.28E 43 4.0
¶600635514
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 09 05 27 13.1–1.2 37.14N–.08 142.44E–.08 9 3.6b 18 1-61
NIED VI 09 05 27 00 37.10N 142.50E 17 3.6W **¶17205597**
ISCJB VI 09 05 27 10.7–.84 37.11N–.06 142.55E–.07 9 3.7b
IDC VI 09 05 27 11.2–1.5 37.13N 142.58E 0 3.7,3.7
JMA VI 09 05 27 12.6–.40 37.10N 142.47E 20 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s124.00000°,δ11.00000°,λ6.00000°. NP2:ϕ_s29.00000°,δ89.00000°,λ101.00000°. $M_0$2.40000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.9km az=21.7.
IDC Error ellipse: s-maj=38.4km s-min=19.9km az=73.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC VI 09 09 31 53.3–.94 36.63N–.04 142.73E–.09 15 3.6b 29 2-61
ISCJB VI 09 09 31 51.1–.80 36.63N–.04 142.81E–.08 15 3.5b **¶17205612**
JMA VI 09 09 31 52.0–.30 36.64N 142.87E 34 3.3
IDC VI 09 09 31 56.2–6.9 36.51N 142.68E 33–54 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.8km az=1.3.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=35.2km s-min=18.2km az=95.0.
ISC VI 09 10 26 04.9–.39 37.27N–.03 142.24E–.03 16–1 5.2b,4.8s 912 1-151
NIED VI 09 10 26 00 37.20N 142.20E 5 5.1W,4.8s **¶16580463**
IDC VI 09 10 26 02.4–.39 37.26N 142.25E 0 4.9,4.9
ISCJB VI 09 10 26 02.6–.68 37.25N–.02 142.21E–.02 9–4 5.1b,4.9s
JMA VI 09 10 26 02.8–.30 37.23N 142.28E 22–5 5.2,4.9s
BJI VI 09 10 26 04.1 37.24N 142.08E 21 5.1b,5.0s
MOS VI 09 10 26 06.3–.94 37.45N 142.16E 32 5.3b,5.0s
NEIC VI 09 10 26 08.2–.12 37.26N 142.15E 35 5.1b,5.0s
GCMT VI 09 10 26 08.2–.20 37.25N 142.20E 12 5.0W,5.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s19.00000°,δ33.00000°,λ-78.00000°. NP2:ϕ_s185.00000°,δ58.00000°,λ-98.00000°. $M_0$4.78000×10^{16}
IDC Error ellipse: s-maj=11.6km s-min=9.0km az=101.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.1km az=166.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=4.2km az=108.5.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=148.0. Recorded [2 JMA] in Fukushima and Miyagi.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c57; s118,c190; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.61±.09 $M_{\theta\theta}$0.28±.09; $M_{\phi\phi}$4.32±.08; $M_{r\theta}$-0.76±.31; $M_{\theta\phi}$1.00±.08; $M_{\phi r}$0.46±.27; Best double couple: NP1:ϕ_s183.00000°,δ48.00000°,λ-103.00000°. NP2:ϕ_s23.00000°,δ44.00000°,λ-76.00000°. Principal axes: T 4.5630,Plg2.0000°,Azm283.0000°; N 0.1960,Plg10.0000°,Azm193.0000°; P -4.7660,Plg80.0000°,Azm23.0000° $M_0$4.66400×10^{16}
ISC VI 09 11 03 29.4–.97 37.68N–.05 142.69E–.07 24 3.7b 29 1-62
IDC VI 09 11 03 25.7–1.1 37.69N 142.84E 0 3.6,3.6 **¶17205615**
ISCJB VI 09 11 03 27.2–.67 37.70N–.05 142.89E–.06 24 3.6b,3.6
JMA VI 09 11 03 28.0–.20 37.75N 142.80E 27 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=18.0km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.9km az=33.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 09 11 45 44.1–2.6 37.01N–.04 142.19E–.06 1–16 3.7b 41 1-75
NIED VI 09 11 45 00 37.00N 142.30E 26 3.8W **¶17205620**
JMA VI 09 11 45 43.9–.10 37.03N 142.28E 4–2 4.0
ISCJB VI 09 11 45 44.2–1.3 37.03N–.04 142.35E–.05 11–9 3.6b
IDC VI 09 11 45 44.7–1.4 37.09N 142.22E 0 3.9,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s266.00000°,δ33.00000°,λ-158.00000°. NP2:ϕ_s158.00000°,δ79.00000°,λ-59.00000°. $M_0$5.31000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.8km az=24.0.
IDC Error ellipse: s-maj=33.8km s-min=20.6km az=151.0.
ISC VI 09 12 44 09.0–3.6 36.94N–.05 142.25E–.08 17–23 3.8b 25 1-72
NIED VI 09 12 44 00 37.00N 142.10E 26 3.8W **¶600635765**
IDC VI 09 12 44 06.0–1.9 36.96N 142.50E 0 3.9,3.8
ISCJB VI 09 12 44 09.9–1.2 36.95N–.05 142.27E–.08 35–11 3.8s,3.8b
JMA VI 09 12 44 11.3–.20 37.01N 142.12E 37–4 3.8,3.8b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s53.00000°,δ14.00000°,λ-70.00000°. NP2:ϕ_s212.00000°,δ77.00000°,λ-95.00000°. $M_0$6.21000×10^{14}
IDC Error ellipse: s-maj=47.9km s-min=20.8km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.1km az=15.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 09 12 49 35.7–1.6 37.30N–.07 142.3E–.10 21 15 1-61
NIED VI 09 12 49 00 37.30N 142.30E 5 3.5W **¶17205626**
IDC VI 09 12 49 34.0–7.2 37.01N 142.43E 0 3.6,3.6s
ISCJB VI 09 12 49 34.4–1.1 37.24N–.05 142.26E–.08 21 3.7s,3.5b
JMA VI 09 12 49 35.1–.20 37.29N 142.26E 24–5 3.5,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s112.00000°,δ38.00000°,λ77.00000°. NP2:ϕ_s309.00000°,δ53.00000°,λ100.00000°. $M_0$1.83000×10^{14}
IDC Error ellipse: s-maj=152.1km s-min=45.8km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=7.8km az=172.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 09 13 07 04.0–1.3 37.88N–.06 144.63E–.08 35 24 3-62
IDC VI 09 13 07 01.4–2.1 37.81N 144.67E 0 3.6,3.6 **¶17205627**
ISCJB VI 09 13 07 03.7–.83 37.91N–.06 144.53E–.07 33 3.5b,3.6
JMA VI 09 13 07 06.3–.10 37.99N 144.30E 27 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=49.7km s-min=32.5km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.5km az=32.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 09 13 53 22.9–1.3 37.58N–.06 143.55E–.09 35 23 2-58
IDC VI 09 13 53 18.8–1.4 37.53N 143.66E 0 3.7,3.6 **¶17205632**
ISCJB VI 09 13 53 21.2–.88 37.60N–.05 143.56E–.07 33 3.5b,3.6
JMA VI 09 13 53 22.1–.20 37.65N 143.46E 39 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.5km s-min=22.6km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=7.4km az=18.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 09 16 05 11.2–1.2 36.15N–.05 142.48E–.09 18 3.5b 23 1-76
ISCJB VI 09 16 05 09.0–.92 36.18N–.04 142.49E–.07 18 3.4b,3.3s **¶600635908**
JMA VI 09 16 05 10.6–.20 36.17N 142.47E 73 2.9,3.3s
IDC VI 09 16 05 10.5–2.2 35.93N 142.32E 0 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.8km az=7.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=41.9km s-min=25.2km az=68.0.
JMA VI 09 17 42 46.2–.20 38.13N 144.57E 41 3.9
NIED VI 09 17 42 00 38.10N 144.60E 17 3.4W **¶600635989**
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ76.00000°,λ166.00000°. NP2:ϕ_s45.00000°,δ76.00000°,λ14.00000°. $M_0$1.63000×10^{14}
ISC VI 09 20 30 05.2–.77 37.77N–.05 142.58E–.06 29–4 4.0b 46 1-146
NIED VI 09 20 30 00 37.80N 142.50E 35 4.0W **¶17205657**
ISCJB VI 09 20 30 05.0–1.0 37.79N–.04 142.52E–.08 38–9 3.9b
JMA VI 09 20 30 05.9–.20 37.80N 142.43E 42–4 4.3
IDC VI 09 20 30 07.3–.79 37.71N 142.42E 42–7 4.0,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ19.00000°,λ89.00000°. NP2:ϕ_s227.00000°,δ71.00000°,λ90.00000°. $M_0$9.58000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=6.4km az=15.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=13.9km az=87.0.
ISC VI 09 23 58 39.9–.77 38.47N–.06 144.57E–.08 29 3.9b 48 2-94
NIED VI 09 23 58 00 38.50N 144.50E 8 3.6W **¶16713619**
IDC VI 09 23 58 35.1–1.2 38.34N 144.76E 0 3.9,3.8
ISCJB VI 09 23 58 38.5–.51 38.48N–.04 144.56E–.04 29 4.0b,3.8
JMA VI 09 23 58 39.0–.20 38.52N 144.51E 32 3.8,3.8
NEIC VI 09 23 58 40.8–.58 38.42N 144.64E 35 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ19.00000°,λ-114.00000°. NP2:ϕ_s241.00000°,δ73.00000°,λ-82.00000°. $M_0$2.70000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=19.3km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.5km az=161.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=9.4km az=150.0.
JMA VI 10 02 29 00.9–.20 37.75N 142.18E 32–3 3.6
NIED VI 10 02 29 00 37.70N 142.20E 26 3.4W **¶600636249**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s129.00000°,δ65.00000°,λ173.00000°. NP2:ϕ_s221.00000°,δ84.00000°,λ25.00000°. $M_0$1.27000×10^{14}
ISC VI 10 04 40 59.2–2.3 34.79N–.06 141.2E–.10 48 11 0-99
JMA VI 10 04 40 58.4–.40 34.76N 141.21E 44–3 3.1 **¶17205685**
ISCJB VI 10 04 40 60.0–1.2 34.79N–.06 141.1E–.10 48 3.5b,3.1s
IDC VI 10 04 40 59.2–2.4 34.62N 140.96E 0 3.6,3.5b
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.8km az=165.8.
IDC Error ellipse: s-maj=50.8km s-min=24.2km az=83.0.
IDC VI 10 11 05 56.1–2.7 38.07N 143.45E 0 3.6,3.6
¶17205701
IDC Error ellipse: s-maj=53.6km s-min=32.1km az=82.0.
ISC VI 10 14 12 48.3–.60 36.67N–.05 143.67E–.07 35 4.1b 71 2-89
IDC VI 10 14 12 42.8–.58 36.52N 143.89E 0 4.2,4.1 **¶16720896**
NEIC VI 10 14 12 44.2–.50 36.66N 143.84E 10 4.5b,4.1
ISCJB VI 10 14 12 46.0–.40 36.63N–.03 143.65E–.04 33 4.1b,3.1s
JMA VI 10 14 12 45.6–.20 36.66N 143.70E 48 4.1,3.1s
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=14.2km az=128.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.6km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.2km az=146.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 10 16 17 53.2–.20 39.42N 143.06E 20–2 3.5
¶600636738
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 10 17 59 02.2–.20 37.75N 142.49E 20–3 3.8
NIED VI 10 17 59 00 37.70N 142.50E 23 3.4W **¶600636805**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s176.00000°,δ71.00000°,λ-19.00000°. NP2:ϕ_s272.00000°,δ72.00000°,λ-160.00000°. $M_0$1.25000×10^{14}

ISC VI 10 18 10 24.2–1.2 37.85N–.05 143.70E–.09 35 3.6b 30 2-62
IDC VI 10 18 10 19.1–1.8 37.85N 143.92E 0 3.6,3.6 **¶17205725**
ISCJB VI 10 18 10 22.5–.79 37.82N–.05 143.65E–.07 33 3.6b,3.6
JMA VI 10 18 10 22.8–.20 37.89N 143.64E 45 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=41.7km s-min=21.5km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.4km az=14.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 10 18 33 23.6–.40 36.82N–.04 142.15E–.04 28–2 4.7b,4.3s 498 1-149
NIED VI 10 18 33 00 36.80N 142.30E 20 4.7W,4.3s **¶16587561**
IDC VI 10 18 33 19.2–.44 36.69N 142.21E 0 4.6,4.5
ISCJB VI 10 18 33 20.5–.70 36.72N–.02 142.17E–.02 17–4 4.7b,4.2s
JMA VI 10 18 33 20.9–.30 36.74N 142.25E 25 4.7,4.2s
BJI VI 10 18 33 22.1 36.75N 142.09E 31 4.9b,4.8b
NEIC VI 10 18 33 22.8–1.2 36.70N 142.14E 23–9 4.8b,4.8b
MOS VI 10 18 33 23.3–.90 37.04N 142.11E 25 5.0b,4.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s204.00000°,δ16.00000°,λ85.00000°. NP2:ϕ_s29.00000°,δ74.00000°,λ91.00000°. $M_0$1.21000×10^{16}
IDC Error ellipse: s-maj=13.4km s-min=10.0km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=154.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=2.9km az=141.0. Recorded [1 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
MOS Error ellipse: s-maj=6.5km s-min=4.2km az=109.7.
ISC VI 11 02 06 08.4–1.5 37.39N–.07 143.96E–.10 35 3.7b 19 2-61
ISCJB VI 11 02 06 06.7–1.0 37.44N–.05 144.03E–.10 33 3.6b **¶17205745**
IDC VI 11 02 06 09.6–2.8 36.53N 143.73E 0 3.7,3.5
JMA VI 11 02 06 09.4–.40 37.42N 143.79E 44 3.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.4km az=3.3.
IDC Error ellipse: s-maj=78.0km s-min=29.6km az=60.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
ISC VI 11 02 29 55.3–1.9 35.22N–.05 142.33E–.07 13–11 3.6b 27 1-81
NIED VI 11 02 29 00 35.30N 142.30E 5 3.7W **¶17205747**
IDC VI 11 02 29 54.5–1.1 35.25N 142.25E 0 3.7,3.7L
ISCJB VI 11 02 29 56.4–2.0 35.33N–.05 142.34E–.06 30–16 3.5b,3.7L
JMA VI 11 02 29 57.5–.30 35.31N 142.32E 50 3.5,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ44.00000°,λ-99.00000°. NP2:ϕ_s27.00000°,δ46.00000°,λ-81.00000°. $M_0$4.40000×10^{14}
IDC Error ellipse: s-maj=28.5km s-min=17.6km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=8.0km az=150.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 11 03 00 52.6–.84 39.52N–.05 143.31E–.05 32–4 4.4b,3.5s 109 1-154
NIED VI 11 03 00 00 39.50N 143.50E 17 4.1W,3.5s **¶16590039**
JMA VI 11 03 00 48.7–.20 39.45N 143.47E 25 4.4,3.5s
ISCJB VI 11 03 00 48.8–1.1 39.48N–.03 143.42E–.05 18–7 4.3b,3.6s
MOS VI 11 03 00 51.9–.92 39.57N 143.23E 33 4.6b,3.6s
NEIC VI 11 03 00 52.7–1.7 39.52N 143.31E 31–12 4.5b,3.6s
IDC VI 11 03 00 53.2–3.5 39.43N 143.29E 39–29 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ16.00000°,λ69.00000°. NP2:ϕ_s29.00000°,δ75.00000°,λ96.00000°. $M_0$1.54000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.9km az=32.3.
MOS Error ellipse: s-maj=9.9km s-min=7.4km az=104.6.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=5.2km az=115.0.
IDC Error ellipse: s-maj=23.9km s-min=19.7km az=108.0.
JMA VI 11 03 39 18.9–.30 38.29N 144.47E 28 3.8 ¶600637167
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
ISC VI 11 06 46 39.3–1.8 36.66N–.05 143.62E–.09 44–19 3.5b 26 2-89
IDC VI 11 06 46 32.6–1.4 36.48N 143.97E 0 3.7,3.5 **¶17205760**
JMA VI 11 06 46 36.4–.30 36.65N 143.67E 55 3.6,3.5
ISCJB VI 11 06 46 37.1–1.1 36.64N–.04 143.61E–.07 42–12 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
JMA VI 11 08 17 45.7–.30 36.70N 143.65E 49 3.6
NIED VI 11 08 17 00 36.70N 143.70E 5 3.5W **¶600637343**
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s32.00000°,δ29.00000°,λ-77.00000°. NP2:ϕ_s197.00000°,δ62.00000°,λ-97.00000°. $M_0$2.22000×10^{14}
ISC VI 11 08 26 14.7–3.6 37.40N–.06 143.62E–.07 24–29 3.7b 24 2-61
NIED VI 11 08 26 00 37.40N 143.60E 5 3.7W **¶17205764**
IDC VI 11 08 26 11.2–1.2 37.20N 143.75E 0 3.8,3.6
JMA VI 11 08 26 15.3–.20 37.41N 143.55E 51 3.5,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s41.00000°,δ17.00000°,λ-83.00000°. NP2:ϕ_s214.00000°,δ73.00000°,λ-92.00000°. $M_0$3.68000×10^{14}
IDC Error ellipse: s-maj=29.3km s-min=21.8km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 11 08 30 12.9–.96 37.54N–.07 142.43E–.07 21 3.6b 24 1-89
NIED VI 11 08 30 00 37.60N 142.60E 23 3.5W **¶17205765**
IDC VI 11 08 30 09.5–1.0 37.49N 142.64E 0 3.8,3.6
ISCJB VI 11 08 30 11.0–.71 37.52N–.07 142.57E–.06 21 3.6b,3.6
JMA VI 11 08 30 11.2–.20 37.60N 142.55E 18 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s17.00000°,δ32.00000°,λ-98.00000°. NP2:ϕ_s206.00000°,δ58.00000°,λ-85.00000°. $M_0$2.34000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=23.3km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.3km az=179.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 11 09 05 00.3–.63 37.50N–.04 142.91E–.04 25–3 4.6b,3.9s 287 2-145
NIED VI 11 09 04 00 37.60N 142.80E 11 4.4W,3.9s **¶16591619**
BJI VI 11 09 04 54.8 37.49N 142.95E 10 4.8b,4.6b
ISCJB VI 11 09 04 57.9–.98 37.57N–.03 142.73E–.03 15–6 4.6b,3.9s
JMA VI 11 09 04 57.0–.40 37.60N 142.76E 7–5 4.5,3.9s
MOS VI 11 09 05 00.8–1.2 37.67N 142.67E 33 4.8b,3.9s
IDC VI 11 09 05 02.5–2.3 37.52N 142.69E 38–19 4.4,4.4
NEIC VI 11 09 05 02.5–.47 37.57N 142.71E 36–4 4.6b,4.4
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s239.00000°,δ39.00000°,λ-56.00000°. NP2:ϕ_s18.00000°,δ59.00000°,λ-114.00000°. $M_0$4.73000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=3.6km az=157.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
MOS Error ellipse: s-maj=7.4km s-min=4.8km az=104.3.
IDC Error ellipse: s-maj=14.0km s-min=10.9km az=107.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.2km az=138.0. Recorded [1 JMA] in Miyagi.
ISC VI 11 14 02 40.6–.64 38.08N–.04 144.76E–.04 20–2 4.6b,3.6s 314 3-144
NIED VI 11 14 02 00 38.00N 144.60E 5 4.5W,3.6s **¶16591625**
IDC VI 11 14 02 36.4–.53 37.89N 144.78E 0 4.5,4.4
ISCJB VI 11 14 02 38.4–.83 38.15N–.03 144.59E–.02 11–5 4.5b,3.7s
JMA VI 11 14 02 40.9–.10 38.04N 144.56E 56 4.8,3.7s
BJI VI 11 14 02 40.8 38.27N 144.76E 33 4.8b,4.6b
MOS VI 11 14 02 42.0–1.1 38.29N 144.62E 33 4.7b,4.6b
NEIC VI 11 14 02 42.5–.23 37.99N 144.63E 35 4.7b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ50.00000°,λ-29.00000°. NP2:ϕ_s345.00000°,δ68.00000°,λ-136.00000°. $M_0$6.43000×10^{15}
IDC Error ellipse: s-maj=14.4km s-min=12.1km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=172.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=7.7km s-min=5.1km az=107.2.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.0km az=162.0.
ISC VI 11 16 28 06.7–2.1 39.6N–.10 143.5E–.20 11 3.8b 20 1-46
IDC VI 11 16 27 59.9–6.4 39.43N 144.30E 0 3.8,3.8b **¶17205782**
NIED VI 11 16 28 00 39.60N 143.70E 26 3.7W,3.8b
ISCJB VI 11 16 28 04.7–1.6 39.60N–.08 143.6E–.20 11 3.7b,3.8b
JMA VI 11 16 28 04.6–.20 39.59N 143.69E 31 3.7,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=107.6km s-min=46.4km az=120.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ31.00000°,λ66.00000°. NP2:ϕ_s37.00000°,δ62.00000°,λ103.00000°. $M_0$3.81000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=6.5km az=27.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 11 16 31 15.1–.51 39.64N–.05 143.40E–.05 11 4.5b,4.0s 168 1-81
NIED VI 11 16 31 00 39.60N 143.70E 23 4.2W,4.0s **¶16591630**
ISCJB VI 11 16 31 13.6–.38 39.59N–.03 143.46E–.05 11 4.4b,3.8s
JMA VI 11 16 31 13.4–.30 39.62N 143.72E 33 4.5,3.8s
IDC VI 11 16 31 14.2–.78 39.62N 143.42E 0 4.4,4.2
BJI VI 11 16 31 16.3 39.66N 143.39E 33 4.7b,4.6b
MOS VI 11 16 31 17.5–1.1 39.66N 143.34E 34 4.7b,4.6b
NEIC VI 11 16 31 19.1–.52 39.66N 143.39E 35 4.8b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s195.00000°,δ30.00000°,λ80.00000°. NP2:ϕ_s27.00000°,δ60.00000°,λ96.00000°. $M_0$2.44000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.6km az=37.5.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=14.7km az=106.0.
MOS Error ellipse: s-maj=7.9km s-min=5.4km az=103.2.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.1km az=121.0.
ISC VI 11 18 51 31.9–.70 39.51N–.06 143.56E–.09 11 3.8b 36 1-75
NIED VI 11 18 51 00 39.50N 144.00E 14 4.0W **¶17205790**
JMA VI 11 18 51 27.3–.20 39.47N 143.98E 29 4.3
ISCJB VI 11 18 51 29.2–.62 39.45N–.05 143.67E–.08 11 3.7b,2.8s
IDC VI 11 18 51 33.4–.77 39.34N 143.54E 29–5 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ38.00000°,λ67.00000°. NP2:ϕ_s32.00000°,δ56.00000°,λ107.00000°. $M_0$1.17000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.3km az=36.9.
IDC Error ellipse: s-maj=17.3km s-min=16.3km az=115.0.
ISC VI 11 19 47 00.5–.00 37.83N–.05 143.75E–.09 35 3.7b 32 2-69
NIED VI 11 19 46 00 37.90N 143.60E 8 3.5W **¶17205791**
IDC VI 11 19 46 54.7–1.2 37.92N 144.08E 0 3.7,3.6
ISCJB VI 11 19 46 59.4–.82 37.85N–.05 143.65E–.07 33 3.6b,3.6
JMA VI 11 19 46 59.3–.20 37.92N 143.65E 36 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ15.00000°,λ-130.00000°. NP2:ϕ_s212.00000°,δ79.00000°,λ-80.00000°. $M_0$2.19000×10^{14}
IDC Error ellipse: s-maj=30.3km s-min=22.0km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.0km az=153.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 11 23 13 54.5–.67 36.60N–.04 142.23E–.04 25–4 4.5b,4.0s 176 1-146
NIED VI 11 23 13 00 36.70N 142.30E 23 4.6W,4.0s **¶16593405**
ISCJB VI 11 23 13 51.6–1.2 36.66N–.03 142.30E–.03 14–7 4.4b,4.0s
BJI VI 11 23 13 52.0 36.68N 142.24E 25 4.8b,4.6b
JMA VI 11 23 13 52.0–.30 36.72N 142.28E 18–4 4.4,4.6b
NEIC VI 11 23 13 54.0–1.7 36.61N 142.34E 21–12 4.7b,4.6b
MOS VI 11 23 13 55.6–.94 37.03N 141.96E 21 4.7b,4.0s
IDC VI 11 23 13 56.2–3.2 36.59N 142.24E 35–25 4.2,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ21.00000°,λ93.00000°. NP2:ϕ_s26.00000°,δ69.00000°,λ89.00000°. $M_0$7.79000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=155.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.8km az=122.0.
MOS Error ellipse: s-maj=9.1km s-min=6.0km az=113.9.
IDC Error ellipse: s-maj=16.0km s-min=13.1km az=91.0.
JMA VI 12 03 47 58.9–.20 38.43N 144.52E 27 3.7 ¶600637923
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 12 04 00 04.1–1.3 36.17N–.06 142.4E–.10 18 22 1-65
ISCJB VI 12 04 00 02.8–1.3 36.25N–.04 142.4E–.10 18 3.5b,3.5s **¶17205814**
IDC VI 12 04 00 03.3–3.6 36.15N 142.31E 0 3.8,3.7b
JMA VI 12 04 00 06.4–.30 36.33N 142.21E 64 3.0,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=6.1km az=6.9.
IDC Error ellipse: s-maj=63.0km s-min=27.0km az=84.0.
JMA Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
JMA VI 12 05 15 30.6–.30 37.33N 144.14E 40 3.5 ¶600637973
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 12 05 47 55.0–.56 37.43N–.05 144.07E–.06 35 4.3b,3.2s 160 2-145
NIED VI 12 05 47 00 37.40N 144.00E 5 4.1W,3.2s **¶16593410**
IDC VI 12 05 47 49.0–.62 37.20N 144.13E 0 4.3,4.1
BJI VI 12 05 47 49.0 37.62N 144.32E 10 4.6b,4.5s
NEIC VI 12 05 47 50.7–.37 37.29N 144.13E 10 4.4b,4.5s
JMA VI 12 05 47 52.8–.30 37.39N 143.97E 39 4.3,4.5s
MOS VI 12 05 47 54.2–.99 37.59N 143.93E 29 4.5b,4.5s
ISCJB VI 12 05 47 54.3–.35 37.51N–.04 143.94E–.03 33 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ25.00000°,λ-94.00000°. NP2:ϕ_s217.00000°,δ65.00000°,λ-88.00000°. $M_0$1.60000×10^{15}
NEIC Event type se.
ISCJB Event type se.
JMA VI 12 09 12 47.6–.50 36.88N 144.18E 28 3.5 ¶600638122
JMA Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0.
ISC VI 12 10 21 26.6–.71 37.24N–.06 144.01E–.07 35 3.7b 40 2-88
NIED VI 12 10 21 00 37.40N 144.00E 5 3.8W **¶17205823**
IDC VI 12 10 21 21.6–.76 37.19N 144.16E 0 3.9,3.8
ISCJB VI 12 10 21 25.1–.56 37.30N–.05 143.96E–.04 33 3.7b,2.6s
JMA VI 12 10 21 25.4–.20 37.37N 143.95E 46 3.8,2.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ29.00000°,λ-84.00000°. NP2:ϕ_s211.00000°,δ62.00000°,λ-93.00000°. $M_0$5.43000×10^{14}
IDC Error ellipse: s-maj=21.5km s-min=16.7km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.1km az=176.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 12 11 53 58.5–1.2 35.37N–.05 142.38E–.10 22–8 3.7b 34 1-59
IDC VI 12 11 53 55.9–1.1 35.28N 142.29E 0 3.8,3.7 **¶17205824**
JMA VI 12 11 53 57.0–.20 35.37N 142.44E 53 3.3,3.7
ISCJB VI 12 11 53 58.0–1.1 35.37N–.04 142.35E–.07 34–12 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
JMA VI 12 13 04 00.3–.20 37.90N 142.59E 24–3 3.5 ¶600638307
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 12 13 48 15.2–1.6 35.74N–.06 142.8E–.10 59 20 2-60
IDC VI 12 13 48 10.5–3.1 35.49N 142.94E 0 3.4,3.3 **¶17205827**
ISCJB VI 12 13 48 13.4–1.0 35.75N–.05 142.87E–.09 59 3.4b,3.3
JMA VI 12 13 48 13.4–.30 35.79N 142.84E 70 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=55.4km s-min=30.9km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.7km az=0.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA VI 12 14 25 36.2–.50 37.06N 142.43E 3–5 3.5 ¶600638350
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 12 15 26 06.9–.98 34.80N–.07 142.69E–.08 35 3.6b 21 1-75
IDC VI 12 15 26 02.2–1.0 34.74N 142.79E 0 3.7,3.5 **¶17205830**
JMA VI 12 15 26 04.1–.40 34.79N 142.80E 56 3.4,3.5
ISCJB VI 12 15 26 05.2–.74 34.76N–.06 142.67E–.07 33 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 16 48 01.4–2.0 37.29N–.05 142.01E–.07 10–11 3.6b 28 1-63
NIED VI 12 16 48 00 37.30N 142.00E 20 3.6W **¶17205841**
JMA VI 12 16 48 03.1–.20 37.31N 141.99E 36 3.8
IDC VI 12 16 48 05.2–5.3 37.24N 141.96E 33–42 3.6,3.6

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S54.00000°,δ34.00000°,λ20.00000°. NP2:ϕ_S308.00000°,δ79.00000°,λ123.00000°. $M_0$2.42000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=28.8km s-min=18.2km az=98.0.
JMA VI 12 17 09 32.7–.10 37.77N 142.01E 33–3 3.7
¶600638422
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 13 00 25 29.3–.82 39.93N–.03 143.51E–.04 30–5 4.7b,4.1s 408 1-144
NIED VI 13 00 25 00 40.00N 143.60E 20 4.5W,4.1s **¶16591899**
ISCJB VI 13 00 25 25.0–.78 39.91N–.02 143.48E–.02 11–5 4.6b,4.1s
IDC VI 13 00 25 24.1–.54 39.84N 143.57E 0 4.5,4.5
JMA VI 13 00 25 25.6–.20 39.96N 143.56E 16–4 4.5,4.5
BJI VI 13 00 25 26.6 39.91N 143.24E 19 4.8b,4.8b
MOS VI 13 00 25 28.0–.97 39.96N 143.37E 31 4.8b,4.8b
NEIC VI 13 00 25 28.6–1.1 39.90N 143.44E 23–8 4.7b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S185.00000°,δ33.00000°,λ73.00000°. NP2:ϕ_S25.00000°,δ58.00000°,λ101.00000°. $M_0$5.85000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.7km az=148.6.
IDC Error ellipse: s-maj=14.2km s-min=11.7km az=117.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=105.3.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.9km az=137.0.
JMA VI 13 00 27 24.3–.20 37.95N 143.45E 24 3.9
¶600638692
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 13 02 25 28.7–.97 37.48N–.05 143.87E–.08 35 3.6b 43 2-62
NIED VI 13 02 25 00 37.50N 143.70E 29 3.8W **¶17206023**
IDC VI 13 02 25 24.2–1.2 37.40N 144.00E 0 3.9,3.8
ISCJB VI 13 02 25 27.5–.67 37.48N–.04 143.80E–.05 33 3.8b,3.8
JMA VI 13 02 25 28.5–.20 37.54N 143.73E 44 4.2,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S326.00000°,δ70.00000°,λ169.00000°. NP2:ϕ_S60.00000°,δ80.00000°,λ20.00000°. $M_0$5.97000×10^{14}
IDC Error ellipse: s-maj=27.1km s-min=21.9km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=34.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 13 02 55 29.9–1.5 39.81N–.05 143.42E–.05 30–10 4.3b 125 1-87
IDC VI 13 02 55 26.0–.61 39.81N 143.34E 0 4.2,4.1 **¶16596667**
JMA VI 13 02 55 26.9–.30 39.87N 143.46E 14–4 4.3,4.1
ISCJB VI 13 02 55 27.3–1.0 39.79N–.03 143.47E–.05 23–7 4.9s,4.2b
MOS VI 13 02 55 29.0–1.0 39.81N 143.30E 32 4.5b,4.2b
NEIC VI 13 02 55 30.9–1.9 39.86N 143.26E 31–13 4.4b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=13.6km az=103.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.3km az=34.1.
MOS Error ellipse: s-maj=9.1km s-min=6.3km az=110.3.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.0km az=114.0.
ISC VI 13 03 59 37.6–2.0 39.67N–.07 143.1E–.10 18 3.6b 18 1-60
JMA VI 13 03 59 35.7–.30 39.68N 143.33E 27–5 3.3 **¶17206029**
IDC VI 13 03 59 39.4–3.1 39.98N 142.48E 0 3.6,3.6b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=78.2km s-min=30.9km az=75.0.
ISC VI 13 06 01 35.0–2.7 39.63N–.05 143.43E–.07 7–16 4.4b,3.6s 84 1-87
NIED VI 13 06 01 00 39.60N 143.60E 23 4.2W,3.6s **¶16720914**
JMA VI 13 06 01 34.7–.10 39.60N 143.58E 29 4.4,3.6s
IDC VI 13 06 01 34.3–.73 39.64N 143.31E 0 4.2,4.0
ISCJB VI 13 06 01 35.5–1.3 39.62N–.03 143.49E–.05 25–9 4.3b,3.6s
MOS VI 13 06 01 36.1–.84 39.64N 143.46E 30 4.7b,3.6s
NEIC VI 13 06 01 38.5–2.2 39.66N 143.40E 28–15 4.5b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S196.00000°,δ29.00000°,λ77.00000°. NP2:ϕ_S30.00000°,δ62.00000°,λ97.00000°. $M_0$2.59000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=16.8km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.2km az=33.5.
MOS Error ellipse: s-maj=10.2km s-min=6.8km az=92.9.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.5km az=127.0.
ISC VI 13 06 36 34.6–1.5 36.21N–.09 142.4E–.10 18 3.8b 19 2-56
IDC VI 13 06 36 30.3–2.1 36.15N 142.80E 0 3.8,3.8b **¶17206034**
ISCJB VI 13 06 36 32.2–1.0 36.22N–.07 142.6E–.10 18 3.7b,3.8b
JMA VI 13 06 36 33.9–.20 36.19N 142.52E 55 3.3,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=47.1km s-min=30.0km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=10.3km az=150.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 13 06 50 32.5–.51 39.89N–.03 143.11E–.03 29–3 5.0b,5.0s 956 1-154
NIED VI 13 06 50 00 39.90N 143.20E 20 5.1W,5.0s **¶16591908**
BJI VI 13 06 50 29.0 39.85N 143.14E 25 5.1b,5.1b
JMA VI 13 06 50 29.3–.20 39.95N 143.23E 16–2 5.1,5.1b
ISCJB VI 13 06 50 31.2–.60 39.91N–.02 143.10E–.02 28–4 5.0b,4.9s
GCMT VI 13 06 50 31.6–.20 40.01N 143.13E 23–0 5.1W,4.9s
NEIC VI 13 06 50 31.6–.39 39.91N 143.02E 18–2 5.0b,4.9s
MOS VI 13 06 50 32.0–.86 40.07N 142.97E 28 5.2b,4.9s
IDC VI 13 06 50 33.9–2.2 39.87N 143.09E 39–19 4.7,4.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S190.00000°,δ17.00000°,λ75.00000°. NP2:ϕ_S26.00000°,δ74.00000°,λ94.00000°. $M_0$4.63000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=152.8.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c69; s103,c165; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.76±.19 $M_{\theta\theta}$-0.51±.11; $M_{\phi\phi}$-3.26±.12; $M_{r\theta}$1.79±.17; $M_{\theta\phi}$-0.62±.07; $M_{\phi r}$3.66±.19; Best double couple: NP1:ϕ_S22.00000°,δ69.00000°,λ96.00000°. NP2:ϕ_S185.00000°,δ21.00000°,λ74.00000°. Principal axes:
T 5.6480,Plg65.0000°,Azm303.0000°; N -0.4720,Plg6.0000°,Azm200.0000°; P -5.1840,Plg24.0000°,Azm107.0000° $M_0$5.41600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=145.0. Felt at Misawa. Recorded [2 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=5.9km s-min=3.8km az=105.8.
IDC Error ellipse: s-maj=13.1km s-min=10.9km az=112.0.
ISC VI 13 10 34 48.1–.51 37.07N–.05 143.06E–.06 25 4.2b,3.3s 90 2-146
NIED VI 13 10 34 00 37.10N 143.00E 5 4.0W,3.3s **¶16730393**
IDC VI 13 10 34 45.1–.59 37.00N 143.08E 0 4.2,4.2b
JMA VI 13 10 34 46.8–.30 37.09N 143.04E 48 3.9,4.2b
ISCJB VI 13 10 34 47.1–.41 37.08N–.04 142.96E–.04 25 4.2b,3.2s
MOS VI 13 10 34 48.4–1.4 37.16N 143.04E 33 4.3b,3.2s
NEIC VI 13 10 34 49.9–.54 37.04N 143.10E 35 4.3b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S132.00000°,δ40.00000°,λ-17.00000°. NP2:ϕ_S235.00000°,δ79.00000°,λ-129.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=12.5km az=99.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=151.0.
MOS Error ellipse: s-maj=10.3km s-min=7.5km az=103.2.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.5km az=113.0.
ISC VI 13 11 39 23.7–.52 36.74N–.05 142.05E–.05 19 4.3b,3.7s 91 1-90
NIED VI 13 11 39 00 36.80N 142.00E 20 4.3W,3.7s **¶16720916**
IDC VI 13 11 39 20.7–.65 36.68N 142.09E 0 4.2,4.1
ISCJB VI 13 11 39 21.5–.37 36.65N–.03 142.17E–.04 19 4.2b,3.5s
NEIC VI 13 11 39 23.6–2.4 36.69N 142.16E 19–15 4.5b,3.5s
JMA VI 13 11 39 24.6–.40 36.76N 142.03E 47 4.3,3.5s
MOS VI 13 11 39 24.1–1.1 36.77N 142.13E 33 4.5b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S203.00000°,δ18.00000°,λ86.00000°. NP2:ϕ_S27.00000°,δ72.00000°,λ91.00000°. $M_0$3.20000×10^{15}
IDC Error ellipse: s-maj=16.5km s-min=13.3km az=118.0.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.5km az=41.7.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=5.7km az=123.0. Recorded [1 JMA] in Fukushima.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=3.6km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=6.9km az=98.1.
ISC VI 13 13 09 21.7–.44 38.64N–.05 143.40E–.04 15 4.6b,3.8s 292 1-145
NIED VI 13 13 09 00 38.60N 143.40E 11 4.4W,3.8s **¶16593459**
BJI VI 13 13 09 19.4 38.72N 143.23E 8 4.8b,4.6b
IDC VI 13 13 09 19.7–.50 38.57N 143.39E 0 4.4,4.3
ISCJB VI 13 13 09 20.7–.19 38.62N–.03 143.31E–.02 15 4.5b,3.8s
JMA VI 13 13 09 20.4–.10 38.62N 143.45E 28 4.6,3.8s
NEIC VI 13 13 09 21.8–1.9 38.61N 143.28E 12–12 4.7b,3.8s
MOS VI 13 13 09 24.1–.90 38.85N 143.23E 33 4.7b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S9.00000°,δ30.00000°,λ-104.00000°. NP2:ϕ_S205.00000°,δ61.00000°,λ-82.00000°. $M_0$4.08000×10^{15}
IDC Error ellipse: s-maj=13.8km s-min=11.3km az=113.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.6km az=165.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.6km az=136.0.
MOS Error ellipse: s-maj=7.4km s-min=5.3km az=91.9.
ISC VI 13 14 01 29.9–.50 37.45N–.05 144.08E–.05 35 4.4b,3.1s 172 2-88
NIED VI 13 14 01 00 37.60N 143.90E 5 4.1W,3.1s **¶16596669**
IDC VI 13 14 01 25.0–.65 37.39N 144.06E 0 4.3,4.3L
BJI VI 13 14 01 25.5 37.63N 143.96E 10 4.7b,4.4b
NEIC VI 13 14 01 26.8–.35 37.48N 144.06E 10 4.7b,4.4b
JMA VI 13 14 01 29.1–.20 37.60N 143.88E 43 4.4,4.4b
MOS VI 13 14 01 31.3–1.1 37.85N 143.80E 33 4.5b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S27.00000°,δ41.00000°,λ-86.00000°. NP2:ϕ_S201.00000°,δ49.00000°,λ-93.00000°. $M_0$1.76000×10^{15}
IDC Error ellipse: s-maj=16.1km s-min=13.7km az=119.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=138.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=5.6km az=115.2.
ISC VI 13 14 54 18.5–1.0 39.61N–.06 143.50E–.09 11 4.0b 40 1-72
ISCJB VI 13 14 54 16.2–.70 39.55N–.04 143.59E–.08 11 4.0b **¶16684528**
IDC VI 13 14 54 16.7–1.4 39.59N 143.51E 0 4.1,4.0
JMA VI 13 14 54 17.1–.20 39.59N 143.63E 25 4.3,4.0
NEIC VI 13 14 54 21.3–2.4 39.63N 143.40E 28–16 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.2km az=28.0.
IDC Error ellipse: s-maj=31.6km s-min=18.6km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=6.6km az=115.0.
JMA VI 13 15 10 51.0–.30 37.77N 142.69E 12–3 3.5
¶600639291
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 13 16 03 39.6–.30 39.32N 144.66E 49 3.5
¶600639365
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 13 16 39 54.1–1.0 34.88N–.07 142.80E–.08 35 3.6b 27 2-59
JMA VI 13 16 39 49.8–.40 34.87N 142.99E 50 3.5 **¶17206057**
IDC VI 13 16 39 49.3–1.0 34.78N 142.84E 0 3.8,3.7
ISCJB VI 13 16 39 51.8–.75 34.89N–.06 142.84E–.06 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 13 16 49 48.3–.63 36.65N–.04 142.06E–.04 30–4 4.8b,4.5s 372 1-146
NIED VI 13 16 49 00 36.70N 142.00E 20 4.7W,4.5s **¶16593464**
IDC VI 13 16 49 44.3–.61 36.65N 142.02E 0 4.6,4.5
BJI VI 13 16 49 46.5 36.60N 142.01E 31 5.0b,4.9b
ISCJB VI 13 16 49 46.2–.70 36.66N–.02 142.02E–.03 23–4 4.8b,4.5s
JMA VI 13 16 49 47.2–.30 36.68N 142.03E 36 4.7,4.5s
NEIC VI 13 16 49 49.2–1.5 36.69N 141.96E 32–10 4.9b,4.5s
MOS VI 13 16 49 50.3–.95 37.01N 141.85E 39 5.1b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S206.00000°,δ12.00000°,λ94.00000°. NP2:ϕ_S22.00000°,δ78.00000°,λ89.00000°. $M_0$1.36000×10^{16}
IDC Error ellipse: s-maj=15.3km s-min=12.3km az=121.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=40.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=3.9km az=131.0. Recorded [1 JMA] in Fukushima, Ibaraki, Miyagi and Tochigi.
MOS Error ellipse: s-maj=7.4km s-min=4.5km az=110.5.
ISC VI 13 18 08 21.6–1.4 37.48N–.05 144.0E–.10 35 3.5b 30 2-62
IDC VI 13 18 08 17.4–1.8 37.43N 144.06E 0 3.7,3.7 **¶17206062**
ISCJB VI 13 18 08 20.3–.87 37.50N–.04 143.92E–.07 33 3.5b,3.7
JMA VI 13 18 08 21.8–.30 37.51N 143.79E 41 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=37.5km s-min=26.1km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.2km az=167.8.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 13 20 37 26.5–1.1 37.50N–.06 143.90E–.09 35 3.5b 24 2-62
NIED VI 13 20 37 00 37.50N 143.90E 5 3.8W **¶17206067**
IDC VI 13 20 37 21.5–1.2 37.32N 144.09E 0 3.7,3.6
JMA VI 13 20 37 23.9–.60 37.49N 143.92E 63 3.5,3.6
ISCJB VI 13 20 37 24.3–.80 37.42N–.05 143.83E–.07 33 3.5b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S29.00000°,δ30.00000°,λ-94.00000°. NP2:ϕ_S214.00000°,δ60.00000°,λ-88.00000°. $M_0$4.76000×10^{14}
ISCJB Event type ke.
ISC VI 13 21 40 53.1–1.4 37.51N–.05 143.9E–.10 35 3.7b 33 2-62
NIED VI 13 21 40 00 37.50N 143.80E 5 3.6W **¶17206071**
IDC VI 13 21 40 47.7–1.8 37.43N 144.21E 0 3.8,3.8
ISCJB VI 13 21 40 50.9–.81 37.55N–.04 143.96E–.07 33 3.8b,3.8
JMA VI 13 21 40 52.1–.20 37.55N 143.85E 47 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S3.00000°,δ41.00000°,λ-106.00000°. NP2:ϕ_S205.00000°,δ51.00000°,λ-76.00000°. $M_0$2.98000×10^{14}
IDC Error ellipse: s-maj=39.9km s-min=22.4km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.0km az=162.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 13 22 25 03.4–.30 37.37N 143.94E 40 3.9
¶600639751
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 14 02 47 41.6–.64 37.95N–.05 143.68E–.06 19 4.0b 52 2-88
NIED VI 14 02 47 00 38.00N 143.60E 8 4.0W **¶16684529**
IDC VI 14 02 47 39.2–.73 37.84N 143.71E 0 4.0,4.0
ISCJB VI 14 02 47 40.0–.49 37.94N–.04 143.55E–.05 19 4.0b,4.0
JMA VI 14 02 47 41.5–.20 38.01N 143.57E 49 4.0,4.0
NEIC VI 14 02 47 44.4–.67 37.99N 143.58E 35 4.1b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S5.00000°,δ23.00000°,λ-110.00000°. NP2:ϕ_S206.00000°,δ69.00000°,λ-82.00000°. $M_0$9.90000×10^{14}
IDC Error ellipse: s-maj=18.9km s-min=15.1km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=31.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=9.7km az=126.0.
JMA VI 14 04 29 20.3–.70 34.95N 142.84E 22 3.5
¶600640046
JMA Error ellipse: s-maj=3.3km s-min=6.4km az=-1.0.
ISC VI 14 07 32 08.8–.83 37.71N–.06 144.10E–.07 35 3.6b 32 2-76
IDC VI 14 07 32 03.4–.86 37.53N 144.34E 0 3.9,3.7 **¶17206093**
ISCJB VI 14 07 32 06.6–.60 37.73N–.05 144.08E–.05 33 3.6b,3.7
JMA VI 14 07 32 08.1–.10 37.85N 143.90E 20 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=17.2km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.5km az=2.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 14 07 33 42.8–4.2 36.24N–.07 142.3E–.20 30–23 3.6b 14 1-60
JMA VI 14 07 33 39.9–.40 36.37N 142.40E 31 3.0 **¶600640116**
IDC VI 14 07 33 59.8–1.4 34.83N 137.34E 0 3.7,3.6

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
IDC Error ellipse: s-maj=40.3km s-min=23.4km az=83.0.
ISC VI 14 07 35 23.8–.59 38.33N–.05 144.68E–.06 29 4.1b,3.9s 91 2-144
IDC VI 14 07 35 18.9–.70 38.23N 144.83E 0 4.1,4.0 **¶16682682**
ISCJB VI 14 07 35 22.6–.39 38.38N–.03 144.58E–.04 29 4.1b,4.0s
MOS VI 14 07 35 22.6–.96 38.27N 144.69E 32 4.3b,4.0s
NEIC VI 14 07 35 23.1–2.6 38.30N 144.76E 25–18 4.3b,4.0s
JMA VI 14 07 35 24.6–.10 38.39N 144.47E 42 4.6,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=15.2km az=126.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.8km az=145.7.
MOS Error ellipse: s-maj=10.5km s-min=7.8km az=99.4.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=6.8km az=109.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 14 13 06 54.3–.36 37.78N–.03 143.57E–.03 30–2 5.7b,5.5s 1972 2-160
NIED VI 14 13 06 00 37.80N 143.60E 20 5.8W,5.5s **¶16596682**
IDC VI 14 13 06 50.0–.32 37.72N 143.60E 0 5.5,5.5s
ISCJB VI 14 13 06 51.0–.43 37.72N–.01 143.55E–.01 16–2 5.6b,5.5s
GCMT VI 14 13 06 51.5–.10 37.73N 143.58E 20–0 5.8W,5.5s
JMA VI 14 13 06 52.8–.20 37.81N 143.58E 50 6.0,5.5s
NEIC VI 14 13 06 52.2–.08 37.73N 143.51E 14 6.2,5.8W
MOS VI 14 13 06 53.3–.86 37.70N 143.51E 33 5.8b,5.8s
NEIC VI 14 13 06 55.0–.00 37.76N 143.62E 15 5.8b,5.8s
BJI VI 14 13 06 56.8 37.91N 142.92E 33 6.0b,5.9s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s327.00000°,δ45.00000°,λ-157.00000°. NP2:ϕ_s220.00000°,δ74.00000°,λ-48.00000°. $M_0$4.89000×10^{17}
IDC Error ellipse: s-maj=10.0km s-min=8.3km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=161.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c235; s146,c418;Duration: 2s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.51±.05 $M_{\theta\theta}$-4.76±.05; $M_{\phi\phi}$6.27±.06; $M_{r\theta}$2.16±.12; $M_{\theta\phi}$1.33±.04; $M_{\phi r}$2.81±.13; Best double couple: NP1:ϕ_s228.00000° ,δ85.00000°,λ-34.00000°. NP2:ϕ_s322.00000°,δ57.00000°,λ-174.00000°. Principal axes: T 7.4900,Plg19.0000°,Azm280.0000°; N -1.6510,Plg56.0000°,Azm41.0000° ; P -5.8380,Plg27.0000°,Azm180.0000° $M_0$6.66400×10^{17}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=146.0. Felt [II] at Tokyo. Also felt at Akiruno, Atsugi, Ichinoseki, Kasama, Kumagaya, Sagamihara, Yokosuka and Zushi. Recorded [3 JMA] in Miyagi. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s71 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53 $M_{\theta\theta}$-5.82 $M_{\phi\phi}$6.35 $M_{r\theta}$1.71 $M_{\theta\phi}$1.07 $M_{\phi r}$1.65 Best double couple: NP1:ϕ_s320.00000°,δ69.00000°,λ-179.00000°. NP2:ϕ_s230.00000° ,δ89.00000°,λ-21.00000°. Principal axes: T 6.8900,Plg14.0000°,Azm277.0000° ; N -0.5400,Plg69.0000°,Azm46.0000°; P -6.3500,Plg16.0000°,Azm183.0000° $M_0$6.60000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s308.00000°,δ60.00000°,λ-174.00000°. NP2:ϕ_s215.00000°,δ85.00000°,λ-30.00000°. Principal axes: T Plg17.0000°,Azm265.0000°; N Plg0.0000°,Azm0.0000°; P Plg24.0000° ,Azm167.0000°
MOS Error ellipse: s-maj=5.8km s-min=4.2km az=110.2.
NEIC Event type se. Moment Tensor Solution. s26 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.30 $M_{\theta\theta}$-3.40 $M_{\phi\phi}$4.70 $M_{r\theta}$2.90 $M_{\theta\phi}$0.60 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s324.00000° ,δ66.00000°,λ-153.00000°. NP2:ϕ_s223.00000°,δ66.00000°,λ-25.00000°. Principal axes: T 4.7000,Plg0.0000°,Azm93.0000°; N 0.7000,Plg55.0000°,Azm3.0000° ; P -5.4000,Plg34.0000°,Azm184.0000° $M_0$5.00000×10^{17}
ISC VI 14 14 36 48.3–.69 37.79N–.05 143.74E–.06 35 4.1b 67 2-88
IDC VI 14 14 36 43.3–.76 37.71N 143.79E 0 4.1,4.0 **¶16601807**
NEIC VI 14 14 36 44.5–.56 37.75N 143.86E 10 4.4b,4.0
ISCJB VI 14 14 36 46.5–.47 37.82N–.04 143.64E–.05 33 4.2b,3.8s
JMA VI 14 14 36 46.1–.20 37.89N 143.64E 34 3.9,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=15.2km az=127.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=7.3km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=40.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 14 14 51 50.3–1.3 36.96N–.06 142.21E–.08 19 3.3b 23 1-61
JMA VI 14 14 51 47.6–.10 37.01N 142.18E 0 3.7 **¶17206118**
ISCJB VI 14 14 51 48.6–.81 36.99N–.05 142.28E–.06 19 3.3b
IDC VI 14 14 51 48.0–1.6 37.00N 142.21E 0 3.4,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.7km az=173.4.
IDC Error ellipse: s-maj=34.8km s-min=23.6km az=78.0.
IDC VI 14 14 55 25.4–1.1 37.70N 143.75E 0 3.7,3.6
¶16730482
IDC Error ellipse: s-maj=34.6km s-min=20.8km az=103.0.
ISC VI 14 15 01 58.7–.80 37.77N–.07 143.76E–.09 19 4.1b 26 4-88
IDC VI 14 15 01 56.4–.86 37.77N 143.79E 0 4.0,3.9 **¶16685953**
ISCJB VI 14 15 01 57.4–.63 37.78N–.07 143.71E–.08 19 4.0b,3.9
NEIC VI 14 15 02 00.0–3.0 37.83N 143.75E 25–21 4.5b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=18.4km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=6.7km az=140.7.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=8.5km az=114.0.
ISC VI 14 15 15 11.7–4.1 37.78N–.04 143.66E–.07 16–26 4.1b 67 2-76
IDC VI 14 15 15 09.7–.77 37.73N 143.71E 0 4.0,3.9 **¶16685954**
NEIC VI 14 15 15 10.6–.57 37.73N 143.78E 10 4.2b,3.9
JMA VI 14 15 15 12.5–.20 37.87N 143.60E 37 3.9,3.9
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=15.7km az=123.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=8.0km az=104.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 14 15 33 54.0–.96 39.61N–.06 143.4E–.10 38–3 3.8b 51 1-67
NIED VI 14 15 33 00 39.60N 143.50E 17 3.9W **¶16601808**
IDC VI 14 15 33 47.8–.95 39.49N 143.49E 0 3.8,3.8
JMA VI 14 15 33 50.8–.20 39.64N 143.51E 33 4.2,3.8
ISCJB VI 14 15 33 51.2–.89 39.58N–.04 143.53E–.07 34–7 4.0b,3.8s
NEIC VI 14 15 33 54.0–3.9 39.64N 143.39E 35 4.2b,3.8s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ18.00000°,λ57.00000°. NP2:ϕ_s30.00000°,δ75.00000°,λ100.00000°. $M_0$8.26000×10^{14}
IDC Error ellipse: s-maj=24.5km s-min=16.3km az=94.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=9.4km s-min=6.2km az=20.3.
NEIC Event type fe. Error ellipse: s-maj=77.1km s-min=6.9km az=113.0. Felt at Misawa.
JMA VI 14 15 39 10.0–.20 38.15N 144.49E 33 3.7
¶600640374
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 14 20 06 51.5–1.5 37.95N–.08 142.5E–.10 18 3.3b 17 1-58
IDC VI 14 20 06 47.7–2.9 37.93N 142.95E 0 3.5,3.4b **¶17206134**
ISCJB VI 14 20 06 50.2–1.2 37.82N–.06 142.6E–.10 18 3.2b,3.4b
JMA VI 14 20 06 52.1–.20 37.83N 142.49E 37–4 3.4,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=69.7km s-min=32.4km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=8.4km az=176.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 14 21 00 32.3–4.0 37.77N–.04 143.68E–.07 15–25 4.2b 74 2-88
NIED VI 14 21 00 00 37.90N 143.70E 11 3.8W **¶16730500**
IDC VI 14 21 00 30.4–.66 37.67N 143.76E 0 4.0,4.0
ISCJB VI 14 21 00 31.6–1.4 37.72N–.03 143.62E–.04 20–11 4.2b,4.0
JMA VI 14 21 00 32.8–.20 37.85N 143.66E 46 3.9,4.0
NEIC VI 14 21 00 35.5–.35 37.65N 143.74E 35 4.5b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ18.00000°,λ-112.00000°. NP2:ϕ_s212.00000°,δ73.00000°,λ-83.00000°. $M_0$5.79000×10^{14}
IDC Error ellipse: s-maj=17.3km s-min=13.3km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=23.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.9km az=102.0.
ISC VI 14 22 21 21.8–3.9 37.53N–.05 144.03E–.07 7–25 3.9b,3.1s 74 2-80
NIED VI 14 22 21 00 37.50N 143.80E 8 4.0W,3.1s **¶16730504**
IDC VI 14 22 21 20.6–.86 37.41N 144.20E 0 4.1L,4.0
ISCJB VI 14 22 21 23.2–1.4 37.50N–.03 143.92E–.04 26–10 4.0b,3.2s
JMA VI 14 22 21 25.4–.30 37.53N 143.81E 49 4.0,3.2s
NEIC VI 14 22 21 26.0–.35 37.47N 144.14E 35 4.3b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ32.00000°,λ-63.00000°. NP2:ϕ_s180.00000°,δ62.00000°,λ-106.00000°. $M_0$9.91000×10^{14}
IDC Error ellipse: s-maj=22.9km s-min=15.4km az=104.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.4km az=142.9.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.0km az=126.0.
ISC VI 15 01 19 42.9–.61 37.80N–.05 143.59E–.07 19 4.1b 72 2-145
NIED VI 15 01 19 00 37.80N 143.50E 20 4.1W **¶16713158**
IDC VI 15 01 19 39.4–.69 37.62N 143.74E 0 4.1,4.0
ISCJB VI 15 01 19 40.9–.39 37.75N–.03 143.57E–.04 19 4.2b,4.0
JMA VI 15 01 19 43.1–.20 37.80N 143.52E 45 4.4,4.0
NEIC VI 15 01 19 44.7–.40 37.72N 143.68E 35 4.4b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ29.00000°,λ-104.00000°. NP2:ϕ_s201.00000°,δ62.00000°,λ-83.00000°. $M_0$1.55000×10^{15}
IDC Error ellipse: s-maj=17.4km s-min=16.3km az=106.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.2km az=144.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=6.4km az=147.0.
ISC VI 15 03 08 52.3–2.9 37.20N–.05 142.25E–.08 2–17 3.5b 24 1-57
NIED VI 15 03 08 00 37.20N 142.30E 5 3.5W **¶17206151**
ISCJB VI 15 03 08 52.3–1.5 37.15N–.05 142.30E–.07 15–9 3.5b
IDC VI 15 03 08 52.3–1.4 37.16N 142.42E 0 3.7,3.6
JMA VI 15 03 08 53.7–.20 37.24N 142.27E 25 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ25.00000°,λ-126.00000°. NP2:ϕ_s136.00000°,δ70.00000°,λ-75.00000°. $M_0$2.19000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.6km az=172.5.
IDC Error ellipse: s-maj=31.7km s-min=25.4km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 15 05 32 38.0–3.5 37.07N–.05 142.36E–.06 6–22 3.6b 37 1-89
NIED VI 15 05 32 00 37.10N 142.40E 23 3.7W **¶17206158**
IDC VI 15 05 32 36.9–.95 37.11N 142.53E 0 3.8,3.7
ISCJB VI 15 05 32 37.6–1.5 37.09N–.05 142.52E–.06 16–11 3.6b,3.7
JMA VI 15 05 32 37.1–.30 37.13N 142.42E 4–3 4.2,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ32.00000°,λ119.00000°. NP2:ϕ_s20.00000°,δ62.00000°,λ73.00000°. $M_0$4.32000×10^{14}
IDC Error ellipse: s-maj=23.7km s-min=19.7km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=7.2km az=36.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 15 06 22 30.3–.90 34.77N–.06 142.69E–.07 42 3.6b 37 1-147
NIED VI 15 06 22 00 34.80N 142.70E 8 3.7W **¶17206163**
IDC VI 15 06 22 25.6–.97 34.77N 142.67E 0 3.8,3.8L
JMA VI 15 06 22 28.4–.30 34.79N 142.73E 64 3.5,3.8L
ISCJB VI 15 06 22 29.1–.72 34.79N–.04 142.64E–.05 42 3.6b,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ32.00000°,λ-93.00000°. NP2:ϕ_s216.00000°,δ58.00000°,λ-88.00000°. $M_0$3.96000×10^{14}
ISCJB Event type ke.
ISC VI 15 07 04 39.1–2.0 37.86N–.10 143.9E–.20 35 3.8b 10 2-58
IDC VI 15 07 04 34.2–2.6 37.76N 144.05E 0 3.7,3.7 **¶17206167**
JMA VI 15 07 04 38.9–.50 37.78N 143.53E 48 2.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=58.7km s-min=30.4km az=76.0.
JMA Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
JMA VI 15 09 07 56.2–.30 37.26N 142.61E 3–5 3.7
NIED VI 15 09 07 00 37.30N 142.60E 32 3.4W **¶600640889**
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ63.00000°,λ177.00000°. NP2:ϕ_s255.00000°,δ87.00000°,λ27.00000°. $M_0$1.67000×10^{14}
ISC VI 15 09 50 48.3–.59 37.72N–.06 143.70E–.06 35 4.3b,3.5s 89 2-88
NIED VI 15 09 50 00 37.80N 143.60E 8 4.3W,3.5s **¶16730554**
IDC VI 15 09 50 43.1–.73 37.65N 143.77E 0 4.2,4.1
NEIC VI 15 09 50 44.9–.40 37.69N 143.79E 10 4.5b,4.1
JMA VI 15 09 50 45.6–.20 37.77N 143.57E 37 4.1,4.1
ISCJB VI 15 09 50 46.6–.43 37.80N–.04 143.59E–.05 33 4.3b,3.5s
MOS VI 15 09 50 46.8–1.6 37.81N 143.65E 33 4.6b,3.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s333.00000°,δ30.00000°,λ-161.00000°. NP2:ϕ_s227.00000°,δ81.00000°,λ-62.00000°. $M_0$2.84000×10^{15}
IDC Error ellipse: s-maj=17.6km s-min=14.9km az=125.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.6km az=140.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=135.0.
MOS Error ellipse: s-maj=9.5km s-min=6.7km az=109.1.
ISC VI 15 11 07 29.4–.77 37.68N–.06 142.95E–.07 24 3.7b 31 1-89
NIED VI 15 11 07 00 37.70N 142.90E 11 3.8W **¶16720923**
IDC VI 15 11 07 25.6–.80 37.63N 143.12E 0 3.8,3.7
ISCJB VI 15 11 07 27.4–.57 37.68N–.05 142.98E–.05 24 3.7b,2.7s
JMA VI 15 11 07 27.7–.20 37.69N 142.86E 17 3.7,2.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s173.00000°,δ43.00000°,λ-42.00000°. NP2:ϕ_s296.00000°,δ63.00000°,λ-125.00000°. $M_0$5.81000×10^{14}
IDC Error ellipse: s-maj=26.2km s-min=16.2km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.8km az=166.4.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 15 11 38 07.6–3.5 37.71N–.04 142.88E–.06 7–21 4.2b,3.0s 77 1-145
NIED VI 15 11 38 00 37.70N 143.00E 11 4.1W,3.0s **¶16720925**
IDC VI 15 11 38 06.7–.56 37.70N 142.94E 0 4.2,4.1
JMA VI 15 11 38 08.2–.20 37.71N 143.01E 36 4.5,4.1
NEIC VI 15 11 38 10.5–1.7 37.73N 142.94E 25–11 4.3b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s185.00000°,δ41.00000°,λ-68.00000°. NP2:ϕ_s336.00000°,δ53.00000°,λ-108.00000°. $M_0$1.73000×10^{15}
IDC Error ellipse: s-maj=17.2km s-min=13.0km az=90.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.8km az=109.0.
ISC VI 15 12 40 19.4–1.1 37.33N–.06 142.21E–.08 24 3.7b 25 1-69
NIED VI 15 12 40 00 37.30N 142.30E 8 3.7W **¶600640995**
IDC VI 15 12 40 15.1–1.3 37.29N 142.52E 0 3.7,3.7
ISCJB VI 15 12 40 17.0–.72 37.30N–.05 142.34E–.06 24 3.7b,3.7
JMA VI 15 12 40 17.7–.20 37.28N 142.30E 33 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ45.00000°,λ-132.00000°. NP2:ϕ_s151.00000°,δ59.00000°,λ-56.00000°. $M_0$3.36000×10^{14}
IDC Error ellipse: s-maj=33.9km s-min=19.0km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.8km az=11.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 15 13 23 56.8–.20 38.88N 144.36E 31 3.7
NIED VI 15 13 23 00 38.90N 144.40E 5 3.4W **¶600641030**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ41.00000°,λ-66.00000°. NP2:ϕ_s163.00000°,δ53.00000°,λ-110.00000°. $M_0$1.47000×10^{14}
ISC VI 15 13 50 51.7–1.8 36.82N–.05 142.36E–.10 10 3.5b 18 1-57
ISCJB VI 15 13 50 52.8–1.3 36.82N–.06 142.36E–.09 10 3.5b **¶17206186**
JMA VI 15 13 50 52.4–.30 36.86N 142.30E 1–2 3.3
IDC VI 15 13 51 01.9–2.3 36.61N 141.34E 0 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.0km az=16.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=52.3km s-min=23.1km az=78.0.
JMA VI 15 14 38 09.4–.20 39.65N 143.58E 25 3.5
NIED VI 15 14 38 00 39.70N 143.60E 17 3.5W **¶600641083**
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s164.00000°,δ39.00000°,λ35.00000°. NP2:ϕ_s45.00000°,δ69.00000°,λ123.00000°. $M_0$1.96000×10^{14}

ISC	**VI**	**15 16 03 01.4–1.3**	**37.04N–.05**	**143.91E–.09**	**35**	**3.7b**	**32**	**2-66**
IDC	VI	15 16 02 58.6–2.0	36.62N	144.00E	0	3.8,3.7		¶17206193
ISCJB	VI	15 16 02 59.1–.80	37.03N–.04	143.89E–.06	33	3.7b,3.3s		
NIED	VI	15 16 03 00	37.10N	143.80E	5	3.7W,3.3s		
JMA	VI	15 16 03 00.9–.20	37.09N	143.84E	57	3.8,3.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=52.5km s-min=22.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.3km az=6.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ19.00000°,λ-80.00000°. NP2:ϕ_s235.00000°,δ71.00000°,λ-93.00000°. $M_0$3.67000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**VI**	**15 16 27 59.9–1.2**	**37.37N–.06**	**142.42E–.09**	**21**	**3.4b**	**23**	**1-61**
NIED	VI	15 16 27 00	37.40N	142.30E	23	3.5W		¶17206195
IDC	VI	15 16 27 57.2–1.6	37.34N	142.58E	0	3.6,3.5		
ISCJB	VI	15 16 27 58.2–.87	37.33N–.06	142.51E–.08	21	3.5b,3.5		
JMA	VI	15 16 27 58.9–.60	37.44N	142.32E	4–4	3.9,3.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ33.00000°,λ15.00000°. NP2:ϕ_s250.00000°,δ82.00000°,λ122.00000°. $M_0$1.74000×10^{14}
IDC Error ellipse: s-maj=35.4km s-min=22.2km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=8.1km az=27.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.

ISC	**VI**	**15 16 52 03.8–1.4**	**37.73N–.05**	**143.5E–.10**	**35**	**3.5b**	**31**	**2-72**
IDC	VI	15 16 51 58.2–1.8	37.56N	143.90E	0	3.7,3.7		¶17206197
ISCJB	VI	15 16 52 00.6–.85	37.69N–.04	143.57E–.07	33	3.6b,3.5s		
JMA	VI	15 16 52 00.7–.20	37.77N	143.56E	45	3.3,3.5s		

ISC Event type ke.
IDC Error ellipse: s-maj=46.0km s-min=21.2km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.7km az=2.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**15 23 15 14.6–.78**	**37.71N–.04**	**143.70E–.08**	**35**	**4.1b**	**73**	**2-69**
NIED	VI	15 23 15 00	37.80N	143.50E	5	4.0W		¶16730588
IDC	VI	15 23 15 11.1–1.1	37.62N	143.76E	0	4.1,4.0		
ISCJB	VI	15 23 15 13.5–.47	37.70N–.03	143.59E–.05	33	4.3b,3.0s		
JMA	VI	15 23 15 13.8–.20	37.76N	143.53E	41	4.0,3.0s		
NEIC	VI	15 23 15 15.9–.58	37.66N	143.66E	35	4.6b,3.0s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ25.00000°,λ-151.00000°. NP2:ϕ_s217.00000°,δ78.00000°,λ-68.00000°. $M_0$1.09000×10^{15}
IDC Error ellipse: s-maj=24.1km s-min=18.1km az=88.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=18.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.1km az=112.0.

ISC	**VI**	**16 00 06 34.4–4.3**	**37.97N–.05**	**143.55E–.08**	**8–28**	**4.1b**	**54**	**2-88**
NIED	VI	16 00 06 00	38.10N	143.50E	8	3.9W		¶16638347
IDC	VI	16 00 06 34.2–1.5	37.99N	143.52E	0	4.7,4.7s		
JMA	VI	16 00 06 37.1–.20	38.13N	143.46E	22	4.0,4.7s		
NEIC	VI	16 00 06 38.0–.58	37.84N	143.62E	35	4.8b,4.7s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ35.00000°,λ-87.00000°. NP2:ϕ_s222.00000°,δ55.00000°,λ-92.00000°. $M_0$7.16000×10^{14}
IDC Error ellipse: s-maj=31.8km s-min=19.9km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.1km az=116.0.

JMA	**VI**	**16 02 11 47.9–.30**	**36.60N**	**143.50E**	**48**	**3.5**	
							¶600641500

JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.

JMA	**VI**	**16 02 40 26.7–.20**	**38.22N**	**144.47E**	**24**	**3.6**	
							¶600641513

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**VI**	**16 07 16 06.3–3.3**	**36.36N–.04**	**142.59E–.06**	**4–21**	**3.5b**	**42**	**2-90**
IDC	VI	16 07 16 06.6–1.1	36.24N	142.75E	0	3.8L,3.7		¶17206281
JMA	VI	16 07 16 09.1–.20	36.47N	142.51E	31	3.5,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=27.9km s-min=22.1km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**16 09 14 13.4–.96**	**36.71N–.05**	**143.59E–.08**	**35**	**3.5b**	**32**	**2-89**
NIED	VI	16 09 14 00	36.80N	143.50E	5	3.7W		¶17206299
ISCJB	VI	16 09 14 11.9–.69	36.73N–.04	143.56E–.05	33	3.5b		
JMA	VI	16 09 14 13.0–.30	36.75N	143.53E	63	3.8		
IDC	VI	16 09 14 14.1–5.6	36.59N	143.55E	38–51	3.7L,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ28.00000°,λ-112.00000°. NP2:ϕ_s220.00000°,δ64.00000°,λ-79.00000°. $M_0$3.51000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=178.6.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=41.5km s-min=24.1km az=100.0.

ISC	**VI**	**16 10 09 08.1–.49**	**39.75N–.04**	**143.39E–.03**	**15–2**	**5.0b,4.5s**	**514**	**1-146**
NIED	VI	16 10 09 00	39.70N	143.70E	14	4.8W,4.5s		¶16614738
IDC	VI	16 10 09 05.0–.52	39.66N	143.50E	0	4.7,4.7		
JMA	VI	16 10 09 05.6–.20	39.81N	143.60E	17–4	4.9,4.7		
BJI	VI	16 10 09 05.4	39.73N	143.36E	13	5.0b,5.0b		
ISCJB	VI	16 10 09 07.8–.72	39.79N–.02	143.32E–.03	20–4	4.8b,4.4s		
GCMT	VI	16 10 09 09.7–.50	39.77N	143.56E	15	5.0W,4.4s		
NEIC	VI	16 10 09 09.7–.79	39.80N	143.20E	19–4	5.0b,4.4s		
MOS	VI	16 10 09 09.4–.93	39.94N	143.20E	26	5.1b,4.5s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ16.00000°,λ49.00000°. NP2:ϕ_s33.00000°,δ78.00000°,λ101.00000°. $M_0$1.78000×10^{16}
IDC Error ellipse: s-maj=14.9km s-min=11.3km az=90.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.9km az=151.3.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c31; s67,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.85±.07 $M_{\theta\theta}$-0.07±.06; $M_{\phi\phi}$-0.77±.05; $M_{r\theta}$1.71±.19; $M_{\theta\phi}$-0.17±.04; $M_{\phi r}$3.24±.19; Best double couple: NP1:ϕ_s27.00000°,δ84.00000°,λ93.00000°. NP2:ϕ_s182.00000°,δ7.00000°,λ65.00000°. Principal axes: T 3.7960,Plg51.0000°,Azm301.0000°; N -0.0800,Plg3.0000°,Azm207.0000° ; P -3.7170,Plg39.0000°,Azm115.0000° $M_0$3.75700×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=3.4km az=145.0. Recorded [1 JMA] in Aomori, Iwate and Miyagi.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=112.9.

ISC	**VI**	**16 10 15 00.4–2.2**	**39.75N–.06**	**143.45E–.07**	**4–13**	**4.0b**	**36**	**1-87**
NIED	VI	16 10 15 00	39.80N	143.50E	23	4.0W		¶16720935
JMA	VI	16 10 15 01.0–.20	39.80N	143.49E	22	4.2		
IDC	VI	16 10 15 05.7–2.9	39.71N	143.31E	42–26	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ30.00000°,λ79.00000°. NP2:ϕ_s33.00000°,δ61.00000°,λ96.00000°. $M_0$1.28000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=26.0km s-min=17.2km az=101.0.

ISC	**VI**	**16 13 14 46.2–.85**	**37.69N–.05**	**143.75E–.07**	**35**	**3.9b**	**42**	**2-86**
NIED	VI	16 13 14 00	37.80N	143.60E	8	3.9W		¶17206320
IDC	VI	16 13 14 43.2–1.1	37.56N	143.76E	0	4.1,4.0		
ISCJB	VI	16 13 14 45.4–.64	37.73N–.03	143.59E–.06	33	3.9b,3.6s		
JMA	VI	16 13 14 45.4–.20	37.77N	143.58E	43	3.8,3.6s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s344.00000°,δ35.00000°,λ-155.00000°. NP2:ϕ_s233.00000°,δ76.00000°,λ-57.00000°. $M_0$8.65000×10^{14}
IDC Error ellipse: s-maj=27.0km s-min=18.8km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.8km az=16.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**16 14 01 45.8–1.7**	**36.98N–.05**	**142.7E–.10**	**35**	**3.6b**	**19**	**2-61**
ISCJB	VI	16 14 01 43.9–1.3	37.01N–.06	142.8E–.10	35	3.5b		¶17206324
JMA	VI	16 14 01 43.5–.30	37.02N	142.75E	31	3.2		
IDC	VI	16 14 01 54.0–1.9	36.91N	140.31E	0	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=8.8km az=178.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=48.6km s-min=19.4km az=66.0.

ISC	**VI**	**16 16 47 02.2–2.2**	**36.20N–.05**	**142.52E–.08**	**1–13**	**3.6b**	**28**	**1-56**
IDC	VI	16 16 47 02.5–2.1	36.15N	142.73E	0	3.6,3.6		¶17206333
JMA	VI	16 16 47 05.2–.20	36.17N	142.53E	75	3.0,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=46.7km s-min=25.4km az=80.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**16 19 30 28.9–1.3**	**37.58N–.05**	**144.21E–.08**	**35**	**3.7b**	**32**	**2-62**
IDC	VI	16 19 30 24.2–1.9	37.55N	144.43E	0	3.7,3.6		¶17206342
ISCJB	VI	16 19 30 27.8–.78	37.64N–.05	144.13E–.06	33	3.6s,3.6b		
JMA	VI	16 19 30 29.2–.40	37.71N	143.98E	27	3.9,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=55.0km s-min=24.0km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.4km az=150.4.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

ISC	**VI**	**16 21 16 58.9–.70**	**36.40N–.05**	**143.98E–.07**	**35**	**3.8b,3.5s**	**53**	**3-89**
NIED	VI	16 21 16 00	36.60N	143.80E	5	3.8W,3.5s		¶16714855
IDC	VI	16 21 16 54.1–.86	36.41N	144.13E	0	3.9,3.8		
NEIC	VI	16 21 16 56.1–4.6	36.28N	144.14E	12–29	4.1b,3.8		
ISCJB	VI	16 21 16 57.9–.53	36.44N–.04	143.78E–.05	33	3.8b,3.4s		
JMA	VI	16 21 16 58.1–.30	36.59N	143.81E	53	4.1,3.4s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ21.00000°,λ-90.00000°. NP2:ϕ_s212.00000°,δ69.00000°,λ-90.00000°. $M_0$6.64000×10^{14}
IDC Error ellipse: s-maj=20.5km s-min=16.8km az=90.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=10.0km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.7km az=141.7.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.

JMA	**VI**	**16 23 17 15.9–.10**	**38.31N**	**144.59E**	**32**	**3.7**		
NIED	VI	16 23 17 00	38.30N	144.60E	62	3.9W		¶600642180

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ37.00000°,λ112.00000°. NP2:ϕ_s98.00000°,δ56.00000°,λ74.00000°. $M_0$8.08000×10^{14}

ISC	**VI**	**16 23 53 13.1–1.1**	**37.20N–.05**	**144.46E–.09**	**26**	**3.6b**	**27**	**3-61**
NIED	VI	16 23 53 00	37.30N	144.30E	8	3.7W		¶17206355
IDC	VI	16 23 53 09.2–1.1	37.03N	144.70E	0	3.8,3.7		
ISCJB	VI	16 23 53 11.9–.77	37.20N–.05	144.38E–.06	26	3.6b,3.7		
JMA	VI	16 23 53 13.9–.20	37.32N	144.34E	38	3.9,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ28.00000°,λ-89.00000°. NP2:ϕ_s179.00000°,δ62.00000°,λ-90.00000°. $M_0$3.93000×10^{14}
IDC Error ellipse: s-maj=32.7km s-min=20.4km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.7km az=24.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**17 01 08 11.9–1.2**	**37.70N–.06**	**144.51E–.09**	**35**	**3.8b**	**40**	**3-58**
IDC	VI	17 01 08 06.8–1.4	37.50N	144.76E	0	3.9,3.8		¶17206357
ISCJB	VI	17 01 08 10.2–.77	37.70N–.04	144.51E–.06	33	3.8b,3.6s		
JMA	VI	17 01 08 11.7–.20	37.72N	144.39E	37	4.0,3.6s		

ISC Event type ke.
IDC Error ellipse: s-maj=37.7km s-min=26.7km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=6.0km az=171.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA	**VI**	**17 01 23 12.6–.20**	**38.33N**	**144.60E**	**39**	**3.5**	
							¶600642236

JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.

ISC	**VI**	**17 02 32 25.3–.60**	**37.77N–.05**	**143.66E–.07**	**19**	**4.3b,4.0s**	**75**	**2-126**
NIED	VI	17 02 32 00	37.70N	143.70E	8	4.1W,4.0s		¶16713632
IDC	VI	17 02 32 22.9–.78	37.73N	143.62E	0	4.1,4.1		
ISCJB	VI	17 02 32 23.8–.40	37.73N–.03	143.61E–.04	19	4.2b,3.8s		
NEIC	VI	17 02 32 23.8–3.3	37.76N	143.69E	7–20	4.5b,3.8s		
JMA	VI	17 02 32 24.5–.40	37.75N	143.66E	37	4.0,3.8s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ35.00000°,λ-161.00000°. NP2:ϕ_s229.00000°,δ79.00000°,λ-57.00000°. $M_0$1.60000×10^{15}
IDC Error ellipse: s-maj=22.0km s-min=15.8km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=135.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.9km az=124.0.
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.

JMA	**VI**	**17 07 27 24.8–.20**	**37.12N**	**144.31E**	**64**	**3.7**		
NIED	VI	17 07 27 00	37.10N	144.30E	8	3.5W		¶600642435

JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ24.00000°,λ-109.00000°. NP2:ϕ_s198.00000°,δ67.00000°,λ-82.00000°. $M_0$2.16000×10^{14}

ISC	**VI**	**17 14 46 10.7–.79**	**37.61N–.04**	**143.68E–.07**	**35**	**3.7b**	**47**	**2-74**
NIED	VI	17 14 46 00	37.70N	143.50E	5	3.7W		¶17206394
IDC	VI	17 14 46 06.8–.93	37.52N	143.67E	0	3.8,3.8		
ISCJB	VI	17 14 46 09.8–.59	37.64N–.03	143.53E–.05	33	3.7b,3.5s		
JMA	VI	17 14 46 10.2–.10	37.67N	143.49E	43	3.8,3.5s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ36.00000°,λ-69.00000°. NP2:ϕ_s193.00000°,δ57.00000°,λ-105.00000°. $M_0$4.60000×10^{14}
IDC Error ellipse: s-maj=26.5km s-min=16.7km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=6.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**17 17 48 38.5–1.1**	**37.80N–.06**	**143.87E–.09**	**35**	**3.7b**	**37**	**2-62**
NIED	VI	17 17 48 00	37.80N	143.90E	8	3.7W		¶17206403
IDC	VI	17 17 48 33.3–1.1	37.59N	144.09E	0	3.8,3.7		
ISCJB	VI	17 17 48 35.3–.67	37.75N–.04	143.98E–.05	33	3.6b,3.7		
JMA	VI	17 17 48 36.5–.20	37.76N	143.88E	48	3.8,3.7		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s46.00000°,δ25.00000°,λ-53.00000°. NP2:ϕ_s187.00000°,δ70.00000°,λ-105.00000°. $M_0$3.42000×10^{14}
IDC Error ellipse: s-maj=25.7km s-min=19.3km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=26.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

ISC	**VI**	**17 18 52 11.8–.81**	**37.56N–.06**	**143.95E–.07**	**35**	**4.7b**	**47**	**2-58**
NIED	VI	17 18 52 00	37.60N	143.80E	5	3.7W		¶16730820
IDC	VI	17 18 52 07.9–1.3	37.25N	144.30E	0	3.9,3.8		
ISCJB	VI	17 18 52 09.3–.49	37.57N–.04	144.00E–.04	33	4.4b,3.8		
NEIC	VI	17 18 52 11.7–.53	37.51N	144.10E	35	4.9b,3.8		
JMA	VI	17 18 52 11.3–.30	37.58N	143.85E	49	3.8,3.8		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ21.00000°,λ-46.00000°. NP2:ϕ_s181.00000°,δ75.00000°,λ-105.00000°. $M_0$3.59000×10^{14}
IDC Error ellipse: s-maj=33.0km s-min=21.7km az=127.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=146.3.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=6.9km az=134.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**VI**	**17 19 09 04.2–.56**	**36.57N–.04**	**142.05E–.06**	**19**	**4.1b**	**64**	**1-75**
NIED	VI	17 19 09 00	36.60N	141.80E	26	3.8W		¶16730821
ISCJB	VI	17 19 09 02.1–.38	36.54N–.03	142.13E–.05	19	4.3b,3.3s		
NEIC	VI	17 19 09 05.5–1.5	36.58N	142.12E	29–10	4.3b,3.3s		
JMA	VI	17 19 09 06.7–.20	36.61N	141.84E	60	3.8,3.3s		
IDC	VI	17 19 09 06.5–5.1	36.56N	142.07E	32–37	4.0,3.9b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s149.00000°,δ10.00000°,λ8.00000°. NP2:ϕ_s51.00000°,δ89.00000°,λ100.00000°. $M_0$6.64000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=157.8.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=86.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=36.7km s-min=15.2km az=78.0.

ISC	**VI**	**17 19 51 24.8–1.0**	**39.42N–.06**	**143.17E–.07**	**18**	**3.6b**	**22**	**1-87**
NIED	VI	17 19 51 00	39.60N	143.40E	23	3.8W		¶17206408
IDC	VI	17 19 51 22.0–1.8	39.58N	143.40E	0	3.9,3.8		
JMA	VI	17 19 51 23.9–.30	39.63N	143.44E	37	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s194.00000°,δ22.00000°,λ73.00000°. NP2:ϕ_s32.00000°,δ69.00000°,λ97.00000°. $M_0$5.22000×10^{14}
IDC Error ellipse: s-maj=45.4km s-min=17.0km az=77.0.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.

ISC	**VI**	**17 19 58 28.2–1.2**	**36.74N–.05**	**144.14E–.08**	**35**		**38**	**3-61**

NIED VI 17 19 58 00 36.80N 143.80E 5 3.4W ¶17206410
IDC VI 17 19 58 27.3–4.5 36.58N 144.12E 0 3.7,3.6
ISCJB VI 17 19 58 29.7–.77 36.72N–.03 143.86E–.06 33 3.4b,3.2s
JMA VI 17 19 58 31.5–.40 36.80N 143.78E 45 3.5,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ34.00000°,λ-99.00000°. NP2:ϕ_s234.00000°,δ56.00000°,λ-84.00000°. $M_0$1.23000×10^{14}
IDC Error ellipse: s-maj=76.5km s-min=43.6km az=30.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=1.7.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 18 00 41 30.6–3.0 37.25N–.05 142.08E–.07 3–18 3.8b 26 1-62
NIED VI 18 00 41 00 37.30N 142.10E 17 3.5W ¶600643139
IDC VI 18 00 41 30.0–1.3 37.13N 142.20E 0 3.8b,3.8
ISCJB VI 18 00 41 30.5–1.8 37.23N–.05 142.13E–.06 14–13 3.7b,3.3s
JMA VI 18 00 41 32.3–.20 37.26N 142.06E 30–5 3.7,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s83.00000°,δ31.00000°,λ-17.00000°. NP2:ϕ_s187.00000°,δ81.00000°,λ-120.00000°. $M_0$2.33000×10^{14}
IDC Error ellipse: s-maj=25.4km s-min=21.3km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.7km az=163.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 18 02 26 20.2–1.7 37.00N–.09 142.92E–.09 25 18 2-61
IDC VI 18 02 26 15.2–10 36.88N 144.10E 0 3.7,3.6b ¶17206432
JMA VI 18 02 26 37.9–.20 37.41N 141.95E 40–4 3.3,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=230.1km s-min=49.3km az=28.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 18 04 03 00.5–1.3 37.62N–.06 144.02E–.09 35 3.8b 20 2-62
NIED VI 18 04 02 00 37.70N 143.90E 5 3.7W ¶17206436
IDC VI 18 04 02 56.5–1.3 37.48N 144.19E 0 4.0,3.8
ISCJB VI 18 04 02 59.0–.92 37.66N–.07 143.95E–.09 33 3.8b,3.8
JMA VI 18 04 02 59.7–.20 37.72N 143.90E 49 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ19.00000°,λ-59.00000°. NP2:ϕ_s168.00000°,δ74.00000°,λ-100.00000°. $M_0$4.18000×10^{14}
IDC Error ellipse: s-maj=39.5km s-min=23.9km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.8km az=44.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 18 07 33 47.6–1.4 37.71N–.05 143.6E–.10 35 3.5b 24 2-58
IDC VI 18 07 33 42.1–2.7 37.59N 143.92E 0 3.7,3.7 ¶17206446
ISCJB VI 18 07 33 45.6–1.0 37.72N–.05 143.54E–.08 33 3.5b,3.7
JMA VI 18 07 33 45.4–.20 37.78N 143.54E 45 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=53.0km s-min=30.0km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.5km az=2.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 18 08 48 45.9–3.9 39.40N–.06 143.09E–.08 8–24 3.6b 27 1-60
NIED VI 18 08 48 00 39.40N 143.10E 17 3.4W ¶17206449
ISCJB VI 18 08 48 46.0–1.6 39.38N–.05 143.19E–.07 19–10 3.4b,3.0s
JMA VI 18 08 48 46.9–.10 39.39N 143.08E 17–2 3.9,3.0s
IDC VI 18 08 48 49.4–8.2 39.46N 143.31E 34–67 3.5,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ31.00000°,λ92.00000°. NP2:ϕ_s345.00000°,δ59.00000°,λ89.00000°. $M_0$1.65000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=8.2km az=16.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=37.7km s-min=31.4km az=84.0.
ISC VI 18 10 41 48.4–.48 36.16N–.04 142.10E–.05 23 4.3b,3.6s 122 1-84
NIED VI 18 10 41 00 36.30N 141.90E 17 4.1W,3.6s ¶16632943
IDC VI 18 10 41 45.5–.73 36.18N 141.99E 0 4.1,4.1b
ISCJB VI 18 10 41 46.9–.34 36.21N–.03 142.07E–.04 23 4.2b,3.7s
MOS VI 18 10 41 48.6–.84 36.25N 142.02E 33 4.5b,3.7s
BJI VI 18 10 41 48.9 36.02N 141.91E 33 4.9b,4.6b
JMA VI 18 10 41 49.3–.20 36.27N 141.88E 66–5 3.9,4.6b
NEIC VI 18 10 41 49.3–1.5 36.15N 142.00E 27–10 4.7b,4.6b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ24.00000°,λ73.00000°. NP2:ϕ_s27.00000°,δ67.00000°,λ97.00000°. $M_0$1.85000×10^{15}
IDC Error ellipse: s-maj=21.2km s-min=13.7km az=86.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=20.9.
MOS Error ellipse: s-maj=10.3km s-min=6.6km az=125.5.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=5.2km az=105.0. Felt at Tokyo.
ISC VI 18 11 47 37.1–.99 37.29N–.04 143.52E–.07 35 3.8b 43 2-89
IDC VI 18 11 47 33.0–1.1 37.12N 143.72E 0 3.9,3.7 ¶17206456
ISCJB VI 18 11 47 35.4–.71 37.33N–.03 143.47E–.05 33 3.8b,3.7
JMA VI 18 11 47 35.9–.20 37.38N 143.40E 32 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=36.8km s-min=22.4km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=12.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC VI 18 11 47 45.0–1.5 37.14N 143.72E 0 3.9,3.6
¶17206459
IDC Error ellipse: s-maj=41.2km s-min=29.2km az=137.0.
ISC VI 18 13 47 52.0–1.5 35.73N–.05 142.2E–.10 35 20 1-56
ISCJB VI 18 13 47 51.3–1.1 35.73N–.05 142.2E–.10 35 3.2b ¶600643671
JMA VI 18 13 47 52.1–.20 35.75N 142.15E 58–4 2.8
IDC VI 18 13 48 03.4–1.6 34.17N 137.57E 0 3.2,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.7km az=176.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=39.4km s-min=27.2km az=66.0.
ISC VI 18 16 37 48.5–.97 36.79N–.05 143.63E–.08 35 3.7b 30 2-89
NIED VI 18 16 37 00 36.90N 143.60E 5 3.7W ¶17206472
IDC VI 18 16 37 44.0–1.0 36.62N 143.91E 0 3.8,3.6
ISCJB VI 18 16 37 46.9–.71 36.83N–.04 143.58E–.06 33 3.6b,3.6
JMA VI 18 16 37 47.2–.30 36.87N 143.60E 53 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ24.00000°,λ-77.00000°. NP2:ϕ_s222.00000°,δ66.00000°,λ-96.00000°. $M_0$3.54000×10^{14}
IDC Error ellipse: s-maj=30.9km s-min=22.3km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.8km az=138.6.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 18 17 23 04.0–1.4 37.73N–.06 143.66E–.10 35 3.6b 20 2-62
ISCJB VI 18 17 23 02.9–.94 37.69N–.05 143.61E–.08 33 3.6b ¶17206476
IDC VI 18 17 23 02.7–2.2 37.27N 143.81E 0 3.7,3.6
JMA VI 18 17 23 04.1–.10 37.74N 143.52E 46 3.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.4km az=162.3.
IDC Error ellipse: s-maj=44.7km s-min=32.2km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 18 20 33 53.2–.20 38.49N 144.43E 19 3.6
¶600644010
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 18 20 46 38.6–1.2 37.31N–.05 143.61E–.08 35 3.7b 37 2-61
NIED VI 18 20 46 00 37.40N 143.50E 5 3.6W ¶17206490
IDC VI 18 20 46 34.1–1.2 37.31N 143.89E 0 3.7,3.6
ISCJB VI 18 20 46 37.7–.73 37.34N–.04 143.55E–.06 33 3.7b,3.6
JMA VI 18 20 46 38.9–.20 37.36N 143.46E 45 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s25.00000°,δ26.00000°,λ-85.00000°. NP2:ϕ_s199.00000°,δ64.00000°,λ-93.00000°. $M_0$2.60000×10^{14}
IDC Error ellipse: s-maj=34.5km s-min=22.1km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=6.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 19 00 39 42.7–1.3 39.84N–.07 143.42E–.08 6 4.1b 28 1-73
NIED VI 19 00 39 00 39.90N 143.50E 17 3.6W ¶16730933
IDC VI 19 00 39 36.2–7.0 39.52N 144.33E 0 3.8b,3.7
ISCJB VI 19 00 39 41.3–.95 39.76N–.06 143.54E–.09 6 4.1b,3.7
JMA VI 19 00 39 43.1–.30 39.88N 143.47E 15–5 3.7,3.7
NEIC VI 19 00 39 51.8–1.0 40.10N 142.55E 35 4.3b,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s184.00000°,δ19.00000°,λ63.00000°. NP2:ϕ_s33.00000°,δ74.00000°,λ99.00000°. $M_0$2.90000×10^{14}
IDC Error ellipse: s-maj=113.8km s-min=37.9km az=116.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=5.9km az=38.6.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=9.8km az=123.0.
ISC VI 19 01 42 52.5–.75 38.57N–.06 144.80E–.07 29 4.1b 43 3-87
IDC VI 19 01 42 48.6–.82 38.44N 144.92E 0 4.0,3.9 ¶16718258
ISCJB VI 19 01 42 50.9–.53 38.60N–.04 144.71E–.05 29 4.0b,3.9
JMA VI 19 01 42 51.6–.20 38.61N 144.69E 45 3.9,3.9
NEIC VI 19 01 42 53.8–.52 38.53N 144.75E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.0km s-min=16.2km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=142.2.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.6km az=114.0.
JMA VI 19 02 06 40.4–.20 38.08N 144.17E 22 3.5
¶600644282
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 19 04 09 18.8–2.0 37.21N–.05 142.35E–.07 5–12 3.5b 28 1-57
NIED VI 19 04 09 00 37.30N 142.20E 35 3.7W ¶17206506
JMA VI 19 04 09 22.0–.20 37.26N 142.23E 23–4 3.6
IDC VI 19 04 09 26.5–3.3 36.90N 142.36E 75–32 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ19.00000°,λ153.00000°. NP2:ϕ_s311.00000°,δ81.00000°,λ73.00000°. $M_0$3.88000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=33.3km s-min=18.9km az=84.0.
JMA VI 19 05 07 33.0–.20 37.91N 142.15E 37–3 3.5
¶600644391
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 19 05 31 59.7–.97 36.48N–.05 142.47E–.09 15 3.6b 21 1-75
NIED VI 19 05 31 00 36.50N 142.50E 11 4.0W ¶600644403
ISCJB VI 19 05 31 57.7–.73 36.48N–.04 142.48E–.07 15 3.5b
JMA VI 19 05 31 58.5–.30 36.51N 142.46E 21 3.9
IDC VI 19 05 32 03.3–4.2 36.43N 142.35E 38–35 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s234.00000°,δ24.00000°,λ144.00000°. NP2:ϕ_s357.00000°,δ76.00000°,λ70.00000°. $M_0$9.65000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.7km az=8.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=33.9km s-min=18.4km az=81.0.
ISC VI 19 06 50 55.8–1.5 37.36N–.06 144.61E–.10 35 22 3-62
IDC VI 19 06 50 51.1–1.9 37.30N 144.75E 0 3.7,3.7 ¶17206511
ISCJB VI 19 06 50 53.8–.90 37.35N–.05 144.61E–.07 33 3.7b,3.7
JMA VI 19 06 50 56.2–.20 37.43N 144.44E 32 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=26.5km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.7km az=179.4.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 19 07 17 20.5–.95 39.01N–.06 144.74E–.08 19 3.7b 31 2-61
NIED VI 19 07 17 00 39.20N 144.60E 5 3.6W ¶17206512
IDC VI 19 07 17 17.8–1.1 38.89N 144.89E 0 3.8,3.6
ISCJB VI 19 07 17 20.6–.77 39.14N–.06 144.62E–.06 19 3.5b,3.6
JMA VI 19 07 17 22.8–.20 39.15N 144.55E 39 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s359.00000°,δ34.00000°,λ-106.00000°. NP2:ϕ_s199.00000°,δ57.00000°,λ-79.00000°. $M_0$2.98000×10^{14}
IDC Error ellipse: s-maj=29.8km s-min=18.6km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.2km az=163.1.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 19 09 35 54.7–1.9 39.30N–.06 143.1E–.30 36–5 21 1-59
NIED VI 19 09 35 00 39.30N 143.10E 5 3.5W ¶17206520
IDC VI 19 09 35 47.1–3.0 39.33N 143.79E 0 3.6,3.5b
JMA VI 19 09 35 51.7–.20 39.27N 143.13E 16–2 3.6,3.5b
ISCJB VI 19 09 35 52.6–1.6 39.30N–.05 143.2E–.10 34–16 3.4b,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ41.00000°,λ-77.00000°. NP2:ϕ_s183.00000°,δ50.00000°,λ-101.00000°. $M_0$2.25000×10^{14}
ISCJB Event type ke.
ISC VI 19 13 23 08.1–.85 37.89N–.05 144.22E–.08 35 4.0b 47 2-63
NIED VI 19 13 23 00 38.00N 144.10E 5 3.6W ¶16714868
IDC VI 19 13 23 03.9–1.1 37.77N 144.22E 0 4.1,3.9
NEIC VI 19 13 23 04.7–.67 37.82N 144.36E 10 4.5b,3.9
ISCJB VI 19 13 23 06.2–.57 37.88N–.04 144.22E–.05 33 4.1b,3.9
JMA VI 19 13 23 07.2–.20 37.97N 144.12E 33 4.2,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ39.00000°,λ-107.00000°. NP2:ϕ_s175.00000°,δ53.00000°,λ-77.00000°. $M_0$3.33000×10^{14}
IDC Error ellipse: s-maj=27.3km s-min=19.5km az=95.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=9.0km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=5.2km az=42.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 19 16 29 29.9–.20 36.86N 143.68E 51 3.5
NIED VI 19 16 29 00 36.90N 143.70E 5 3.4W ¶600644852
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s45.00000°,δ34.00000°,λ-94.00000°. NP2:ϕ_s230.00000°,δ56.00000°,λ-87.00000°. $M_0$1.52000×10^{14}
JMA VI 19 20 10 53.3–.20 38.15N 144.24E 2 3.8
NIED VI 19 20 10 00 38.20N 144.20E 5 3.4W ¶600644970
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s62.00000°,δ27.00000°,λ-54.00000°. NP2:ϕ_s203.00000°,δ68.00000°,λ-107.00000°. $M_0$1.66000×10^{14}
ISC VI 19 20 28 58.7–1.6 38.12N–.05 143.0E–.10 18 22 1-74
NIED VI 19 20 28 00 38.10N 143.00E 8 3.5W ¶17206545
IDC VI 19 20 28 56.4–1.9 38.04N 143.30E 0 3.6,3.6b
ISCJB VI 19 20 28 57.2–.91 38.10N–.05 143.07E–.08 18 3.7b,3.4s
JMA VI 19 20 28 57.3–.20 38.13N 143.02E 14–3 3.7,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s346.00000°,δ33.00000°,λ-113.00000°. NP2:ϕ_s193.00000°,δ60.00000°,λ-76.00000°. $M_0$2.28000×10^{14}
IDC Error ellipse: s-maj=52.0km s-min=31.0km az=96.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.5km az=166.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 20 02 26 50.1–.10 38.16N 144.23E 0 3.6
¶600645143
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 20 03 40 51.9–.90 37.44N–.06 142.66E–.09 21 3.9b 29 1-75
NIED VI 20 03 40 00 37.50N 142.60E 20 3.8W ¶17206571
JMA VI 20 03 40 49.9–.30 37.48N 142.58E 13–4 4.0
ISCJB VI 20 03 40 50.1–.65 37.46N–.05 142.68E–.07 21 3.9b
IDC VI 20 03 40 54.4–3.2 37.44N 142.61E 38–27 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ19.00000°,λ38.00000°. NP2:ϕ_s41.00000°,δ78.00000°,λ105.00000°. $M_0$5.89000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.5km az=43.0.
IDC Error ellipse: s-maj=25.7km s-min=16.6km az=93.0.
ISC VI 20 04 16 51.9–1.2 38.14N–.04 144.33E–.09 35 3.9b 36 2-62
NIED VI 20 04 16 00 38.20N 144.10E 5 3.9W ¶17206573
IDC VI 20 04 16 45.3–2.0 37.96N 144.82E 0 4.0,4.0
ISCJB VI 20 04 16 51.0–.84 38.10N–.05 144.23E–.07 33 3.7b,4.0
JMA VI 20 04 16 51.9–.20 38.20N 144.11E 32 4.1,4.0
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s355.00000°,δ25.00000°,λ-91.00000°. NP2:ϕ_s176.00000°,δ65.00000°,λ-89.00000°. $M_0$7.31000×10^{14}
IDC Error ellipse: s-maj=47.3km s-min=21.9km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.5km az=172.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 20 12 01 56.9–.97 39.67N–.05 143.42E–.07 10 3.5b 28 1-72

NIED VI 20 12 01 00 39.60N 143.60E 29 3.6W **¶17206595**
IDC VI 20 12 01 55.0–1.4 39.64N 143.74E 0 3.6,3.5b
ISCJB VI 20 12 01 55.8–.74 39.57N–.05 143.58E–.07 10 3.4b,3.4s
JMA VI 20 12 01 57.1–.20 39.63N 143.61E 28 3.8,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ22.00000°,λ76.00000°. NP2:ϕ_s35.00000°,δ69.00000°,λ96.00000°. $M_0$2.46000×10^{14}
IDC Error ellipse: s-maj=32.6km s-min=24.7km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=37.5.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 20 15 54 33.2–.99 37.91N–.05 144.39E–.08 35 3.4b 30 2-62
NIED VI 20 15 54 00 38.00N 144.30E 5 3.5W **¶17206607**
IDC VI 20 15 54 29.4–1.3 37.84N 144.50E 0 3.7,3.7
ISCJB VI 20 15 54 31.5–.73 37.94N–.05 144.42E–.07 33 3.4b,3.7
JMA VI 20 15 54 33.4–.20 38.00N 144.27E 36 3.6,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s317.00000°,δ23.00000°,λ-153.00000°. NP2:ϕ_s201.00000°,δ80.00000°,λ-69.00000°. $M_0$2.14000×10^{14}
IDC Error ellipse: s-maj=35.8km s-min=22.0km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.6km az=172.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 20 16 26 33.0–1.4 37.65N–.07 143.60E–.09 35 3.5b 21 2-62
ISCJB VI 20 16 26 32.0–.96 37.59N–.06 143.56E–.08 33 3.5b **¶17206609**
JMA VI 20 16 26 32.7–.30 37.62N 143.50E 51 3.1
IDC VI 20 16 26 33.0–2.4 37.05N 143.53E 0 3.6,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.4km az=35.4.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=68.7km s-min=24.8km az=63.0.
ISC VI 20 19 20 54.9–2.1 36.20N–.05 142.18E–.08 15–12 3.6b 27 1-60
IDC VI 20 19 20 54.2–2.1 36.20N 142.16E 0 3.8,3.7 **¶17206619**
ISCJB VI 20 19 20 55.3–1.8 36.25N–.05 142.23E–.08 22–13 3.6b,3.7
JMA VI 20 19 20 56.8–.20 36.25N 142.10E 77–5 3.2,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=56.9km s-min=19.5km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.8km az=172.1.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 20 19 23 04.1–.82 36.21N–.06 142.13E–.09 23 3.9b 41 1-80
IDC VI 20 19 23 00.3–1.3 36.20N 142.17E 0 3.9,3.9 **¶16720957**
NIED VI 20 19 23 00 36.30N 142.10E 23 4.1W,3.9
ISCJB VI 20 19 23 01.5–.55 36.18N–.04 142.23E–.06 23 4.0b,3.8s
NEIC VI 20 19 23 01.0–7.5 36.20N 142.28E 7–43 4.6b,3.8s
JMA VI 20 19 23 03.8–.20 36.25N 142.08E 69 3.7,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=37.9km s-min=17.0km az=75.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s182.00000°,δ32.00000°,λ74.00000°. NP2:ϕ_s21.00000°,δ59.00000°,λ100.00000°. $M_0$1.84000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.4km az=168.5.
NEIC Event type se. Error ellipse: s-maj=30.8km s-min=9.7km az=62.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 21 01 38 51.1–.92 39.61N–.05 143.49E–.08 11 3.7b 36 1-73
NIED VI 21 01 38 00 39.60N 143.60E 20 3.7W **¶17206642**
ISCJB VI 21 01 38 49.8–.70 39.63N–.04 143.53E–.08 11 3.6b
JMA VI 21 01 38 49.9–.20 39.64N 143.65E 24–5 4.0
IDC VI 21 01 38 54.7–6.6 39.62N 143.36E 30–49 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ34.00000°,λ63.00000°. NP2:ϕ_s34.00000°,δ60.00000°,λ107.00000°. $M_0$3.39000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.2km az=25.7.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=31.5km s-min=19.1km az=101.0.
JMA VI 21 01 41 31.9–.10 37.56N 144.47E 33 4.1
¶600645900
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 21 02 44 33.2–1.9 37.50N–.05 142.07E–.06 1–11 3.9b 43 1-146
IDC VI 21 02 44 33.0–.67 37.46N 142.05E 0 4.1,4.0 **¶16720960**
ISCJB VI 21 02 44 33.1–1.6 37.49N–.04 142.11E–.04 11–10 3.9b,4.0
JMA VI 21 02 44 34.4–.20 37.50N 142.06E 24–4 4.0,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=14.9km az=108.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.3km az=165.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 21 15 47 40.1–.92 36.10N–.05 142.64E–.08 18 3.8b,3.6s 41 2-76
IDC VI 21 15 47 38.8–1.6 36.14N 142.62E 0 3.8,3.8b **¶16731147**
ISCJB VI 21 15 47 39.1–.62 36.15N–.04 142.57E–.06 18 3.9b,3.6s
NEIC VI 21 15 47 39.6–.65 36.15N 142.67E 10 4.3b,3.6s
JMA VI 21 15 47 41.7–.10 36.20N 142.49E 71 3.2,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=40.0km s-min=17.4km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.4km az=178.9.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=7.5km az=91.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 21 17 49 31.5–1.0 36.67N–.06 142.31E–.09 15 3.5b 26 1-61
NIED VI 21 17 49 00 36.70N 142.40E 20 3.7W **¶17206689**
ISCJB VI 21 17 49 29.7–.80 36.67N–.05 142.46E–.09 15 3.5b
JMA VI 21 17 49 29.8–.30 36.70N 142.38E 12 3.5
IDC VI 21 17 49 29.6–1.2 36.62N 142.39E 0 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ23.00000°,λ101.00000°. NP2:ϕ_s16.00000°,δ67.00000°,λ85.00000°. $M_0$4.16000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.3km az=171.8.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
IDC Error ellipse: s-maj=30.2km s-min=20.3km az=90.0.
JMA VI 21 21 34 12.9–.20 37.30N 143.43E 36 3.8
¶600646595
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 01 07 36.1–.65 37.75N–.05 142.36E–.06 21 4.0b 44 1-146
NIED VI 22 01 07 00 37.70N 142.50E 14 3.8W **¶17206715**
ISCJB VI 22 01 07 33.9–.50 37.70N–.04 142.48E–.05 21 3.9b
JMA VI 22 01 07 34.3–.20 37.73N 142.48E 27–3 4.3
IDC VI 22 01 07 40.2–2.6 37.74N 142.47E 57–24 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s174.00000°,δ33.00000°,λ-112.00000°. NP2:ϕ_s19.00000°,δ59.00000°,λ-76.00000°. $M_0$5.08000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.6km az=11.6.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=20.1km s-min=15.5km az=91.0.
ISC VI 22 02 18 24.2–.80 36.21N–.06 142.09E–.08 23 4.0b 30 1-72
NIED VI 22 02 18 00 36.30N 141.90E 17 3.8W **¶16731191**
IDC VI 22 02 18 20.3–2.3 36.26N 142.29E 0 4.0b,4.0
ISCJB VI 22 02 18 22.0–.58 36.18N–.04 142.11E–.07 23 4.1b,3.1s
NEIC VI 22 02 18 24.0–2.6 36.21N 142.18E 22–19 4.1b,3.1s
JMA VI 22 02 18 24.5–.20 36.29N 141.92E 64 3.8,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ26.00000°,λ101.00000°. NP2:ϕ_s20.00000°,δ65.00000°,λ85.00000°. $M_0$5.27000×10^{14}
IDC Error ellipse: s-maj=52.3km s-min=21.1km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=179.9.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.8km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 02 38 50.6–1.2 39.70N–.07 143.4E–.10 11 3.8b 19 1-67
NIED VI 22 02 38 00 39.70N 143.70E 23 3.5W **¶17206719**
ISCJB VI 22 02 38 48.4–.96 39.68N–.06 143.58E–.09 11 3.6b,3.2s
JMA VI 22 02 38 48.9–.10 39.65N 143.66E 31 3.6,3.2s
IDC VI 22 02 38 50.2–2.7 39.87N 143.30E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ38.00000°,λ53.00000°. NP2:ϕ_s213.00000°,δ61.00000°,λ115.00000°. $M_0$2.00000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.2km az=35.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=62.3km s-min=28.9km az=152.0.

ISC VI 22 07 57 25.1–1.6 37.85N–.06 143.87E–.09 35 3.6b 21 2-58
ISCJB VI 22 07 57 23.7–1.1 37.84N–.05 143.85E–.08 33 3.4b **¶17206737**
JMA VI 22 07 57 24.4–.20 37.84N 143.79E 45 3.2
IDC VI 22 07 57 25.1–2.7 37.17N 143.80E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.3km az=4.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=71.8km s-min=31.5km az=63.0.
JMA VI 22 08 03 41.1–.20 37.90N 142.31E 34 3.5
¶600646936
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 11 13 54.8–1.2 38.60N–.06 144.73E–.08 29 3.8b 35 2-69
NIED VI 22 11 13 00 38.60N 144.60E 5 3.6W **¶17206750**
IDC VI 22 11 13 51.0–1.3 38.41N 144.91E 0 3.8,3.7b
ISCJB VI 22 11 13 53.1–.78 38.63N–.05 144.73E–.06 29 3.7b,3.7b
JMA VI 22 11 13 55.2–.20 38.57N 144.59E 39 3.7,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s13.00000°,δ25.00000°,λ-84.00000°. NP2:ϕ_s186.00000°,δ65.00000°,λ-93.00000°. $M_0$2.44000×10^{14}
IDC Error ellipse: s-maj=35.3km s-min=23.0km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.3km az=162.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
JMA VI 22 12 05 46.4–.20 37.85N 144.16E 44 3.6
¶600647099
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 13 42 37.1–1.2 36.29N–.05 142.01E–.09 23 3.7b 20 1-60
IDC VI 22 13 42 34.0–1.8 36.15N 142.17E 0 3.7,3.6 **¶17206759**
JMA VI 22 13 42 35.9–.30 36.33N 142.22E 79 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=39.2km s-min=20.9km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
JMA VI 22 14 11 18.1–.20 38.06N 144.31E 37 3.7
¶600647188
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 22 16 39 44.7–1.1 38.59N–.05 144.71E–.09 29 3.7b 35 2-63
IDC VI 22 16 39 41.1–1.6 38.46N 144.85E 0 3.9,3.8 **¶17206764**
ISCJB VI 22 16 39 42.7–.72 38.69N–.03 144.76E–.05 29 3.8b,3.8
JMA VI 22 16 39 46.4–.10 38.63N 144.54E 36 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=36.6km s-min=23.6km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.8km az=18.3.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 22 19 14 50.5–1.3 36.72N–.05 143.38E–.09 35 3.5b 26 2-61
IDC VI 22 19 14 46.8–2.0 36.30N 143.44E 0 3.7,3.6 **¶17206773**
ISCJB VI 22 19 14 47.0–.95 36.76N–.04 143.43E–.07 33 3.5b,3.6
JMA VI 22 19 14 49.1–.20 36.80N 143.31E 67 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=44.5km s-min=24.7km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.2km az=174.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 22 20 43 48.0–.88 37.68N–.05 144.35E–.04 12–4 4.9b,3.9s 592 2-144
NIED VI 22 20 43 00 37.60N 144.20E 20 4.7W,3.9s **¶16645785**
ISCJB VI 22 20 43 45.7–.82 37.71N–.03 144.28E–.02 5–5 4.8b,3.9s
IDC VI 22 20 43 45.3–.70 37.49N 144.42E 0 4.6,4.5
BJI VI 22 20 43 48.2 37.76N 144.00E 11 5.0b,4.8b
JMA VI 22 20 43 49.1–.20 37.59N 144.17E 57 4.7,4.8b
NEIC VI 22 20 43 49.2–1.7 37.70N 144.26E 14–10 5.1b,4.8b
MOS VI 22 20 43 51.2–.99 37.89N 144.22E 36 4.9b,4.8b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s70.00000°,δ76.00000°,λ-3.00000°. NP2:ϕ_s161.00000°,δ87.00000°,λ-166.00000°. $M_0$1.15000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=2.5km az=176.4.
IDC Error ellipse: s-maj=18.8km s-min=11.7km az=157.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=2.7km az=157.0. Felt at Tokyo.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=102.1.
ISC VI 22 21 33 50.7–1.5 37.38N–.08 142.35E–.09 21 3.5b 14 1-61
NIED VI 22 21 33 00 37.50N 142.40E 5 3.4W **¶17206783**
IDC VI 22 21 33 47.0–2.3 37.42N 142.78E 0 3.5,3.5b
ISCJB VI 22 21 33 48.8–1.1 37.4N–.10 142.55E–.09 21 3.4b,3.5b
JMA VI 22 21 33 49.0–.50 37.45N 142.37E 1–4 3.6,3.5b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ44.00000°,λ-45.00000°. NP2:ϕ_s193.00000°,δ60.00000°,λ-124.00000°. $M_0$1.20000×10^{14}
IDC Error ellipse: s-maj=51.5km s-min=28.5km az=47.0.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=10.1km az=14.1.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
JMA VI 22 23 08 37.5–.20 37.96N 143.16E 21 3.6
¶600647459
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 23 03 00 55.7–.10 37.90N 143.23E 31 3.5
¶600647567
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 23 13 15 44.7–.77 37.15N–.05 143.81E–.07 35 3.7b 55 2-145
NIED VI 23 13 15 00 37.10N 143.80E 11 3.9W **¶16720978**
IDC VI 23 13 15 39.0–.83 36.99N 144.03E 0 4.1,3.9
ISCJB VI 23 13 15 42.2–.58 37.15N–.03 143.80E–.05 33 3.8b,3.1s
JMA VI 23 13 15 43.2–.20 37.13N 143.75E 51 4.1,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s48.00000°,δ29.00000°,λ-90.00000°. NP2:ϕ_s229.00000°,δ61.00000°,λ-90.00000°. $M_0$7.34000×10^{14}
IDC Error ellipse: s-maj=22.6km s-min=17.8km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=27.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 23 13 25 25.5–1.1 37.56N–.05 143.57E–.08 35 3.6b 29 2-62
NIED VI 23 13 25 00 37.60N 143.50E 14 3.5W **¶17206818**
IDC VI 23 13 25 21.5–1.3 37.23N 143.90E 0 3.9,3.8L
ISCJB VI 23 13 25 23.1–.76 37.53N–.05 143.52E–.07 33 3.7b,3.8L
JMA VI 23 13 25 23.8–.20 37.63N 143.48E 41 3.5,3.8L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s326.00000°,δ41.00000°,λ-139.00000°. NP2:ϕ_s203.00000°,δ65.00000°,λ-57.00000°. $M_0$1.95000×10^{14}
IDC Error ellipse: s-maj=32.9km s-min=24.0km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.0km az=27.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 23 15 06 45.4–.98 37.98N–.05 142.92E–.09 18 3.7b 22 1-62
NIED VI 23 15 06 00 38.00N 142.90E 14 3.7W **¶600647879**
IDC VI 23 15 06 42.4–1.1 37.67N 143.16E 0 3.8,3.7
ISCJB VI 23 15 06 43.3–.87 37.97N–.06 142.87E–.08 18 3.6s,3.6b
JMA VI 23 15 06 44.1–.30 38.03N 142.89E 33 3.9,3.6b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ37.00000°,λ150.00000°. NP2:ϕ_s278.00000°,δ72.00000°,λ57.00000°. $M_0$3.36000×10^{14}
IDC Error ellipse: s-maj=27.9km s-min=19.4km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.8km az=151.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 23 15 36 06.4–.10 38.03N 143.91E 2 3.7
¶600647911
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 24 00 30 29.1–.40 37.39N 143.95E 40 3.7
NIED VI 24 00 30 00 37.40N 144.00E 5 3.5W **¶600648130**
JMA Error ellipse: s-maj=2.2km s-min=3.5km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s33.00000°,δ30.00000°,λ-86.00000°. NP2:ϕ_s209.00000°,δ61.00000°,λ-92.00000°. $M_0$2.03000×10^{14}
JMA VI 24 01 49 59.5–.20 37.38N 142.35E 13–4 3.6
NIED VI 24 01 49 00 37.40N 142.40E 5 3.6W **¶600648167**
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ21.00000°,λ-83.00000°. NP2:ϕ_s210.00000°,δ69.00000°,λ-93.00000°. $M_0$2.97000×10^{14}
ISC VI 24 10 46 50.5–.96 37.67N–.05 142.76E–.08 24 3.7b 29 1-62
IDC VI 24 10 46 46.6–1.0 37.61N 142.93E 0 3.7,3.7 **¶17206864**

ISCJB VI 24 10 46 48.6–.68 37.63N–.05 142.77E–.06 24 3.6b,3.7
JMA VI 24 10 46 49.1–.20 37.65N 142.75E 33 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=18.0km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.7km az=159.3.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 24 10 52 33.1–.20 38.06N 144.28E 44 3.5
¶600648337
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 24 15 31 01.8–.51 39.11N–.04 144.54E–.05 28–3 4.6b,3.6s 258 2-87
ISCJB VI 24 15 30 59.1–.99 39.15N–.03 144.40E–.03 17–7 4.5b,3.5s **¶16679643**
BJI VI 24 15 31 00.0 39.10N 144.69E 35 5.0b,4.6b
NIED VI 24 15 31 00 39.20N 144.40E 5 4.3W,4.6b
MOS VI 24 15 31 01.1–1.1 39.12N 144.43E 36 4.8b,4.6b
IDC VI 24 15 31 02.6–.59 39.03N 144.57E 36–3 4.3,4.3
JMA VI 24 15 31 02.2–.20 39.19N 144.34E 49 4.6,4.3
NEIC VI 24 15 31 02.7–.24 39.04N 144.44E 35 4.7b,4.3
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.2km az=153.3.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S10.00000°,δ44.00000°,λ-78.00000°. NP2:ϕ_S173.00000°,δ48.00000°,λ-101.00000°. $M_0$3.67000×10^{15}
MOS Error ellipse: s-maj=8.0km s-min=5.4km az=103.5.
IDC Error ellipse: s-maj=14.3km s-min=11.9km az=125.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=3.9km az=140.0. Recorded [1 JMA] in Miyagi.
ISC VI 24 22 49 09.3–.69 36.62N–.06 143.67E–.07 35 4.1b 52 2-145
NIED VI 24 22 49 00 36.60N 143.60E 5 4.0W **¶16720986**
IDC VI 24 22 49 03.5–.72 36.46N 143.82E 0 4.1,4.0
ISCJB VI 24 22 49 07.5–.49 36.59N–.04 143.57E–.04 33 3.9b,3.2s
JMA VI 24 22 49 07.0–.30 36.61N 143.62E 54 3.7,3.2s
NEIC VI 24 22 49 09.0–.50 36.51N 143.70E 35 4.3b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S28.00000°,δ24.00000°,λ-76.00000°. NP2:ϕ_S193.00000°,δ67.00000°,λ-96.00000°. $M_0$1.13000×10^{15}
IDC Error ellipse: s-maj=19.7km s-min=16.9km az=101.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.6km az=168.9.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=9.4km az=142.0.
ISC VI 25 03 17 34.5–2.2 37.70N–.04 142.02E–.09 26–15 3.1b 27 1-49
NIED VI 25 03 17 00 37.70N 142.00E 11 3.5W **¶17206899**
IDC VI 25 03 17 31.2–2.0 37.85N 142.25E 0 3.5,3.4
ISCJB VI 25 03 17 33.2–1.5 37.71N–.04 142.11E–.09 17–9 3.4b,3.4
JMA VI 25 03 17 35.1–.20 37.71N 142.01E 30–3 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S124.00000°,δ18.00000°,λ-123.00000°. NP2:ϕ_S339.00000°,δ75.00000°,λ-80.00000°. $M_0$2.34000×10^{14}
IDC Error ellipse: s-maj=45.0km s-min=24.4km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=6.8km az=8.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 25 03 32 24.2–1.0 36.51N–.05 143.63E–.08 35 3.6b 26 2-89
IDC VI 25 03 32 19.6–1.2 36.36N 143.86E 0 3.7,3.6 **¶17206900**
ISCJB VI 25 03 32 23.0–.78 36.56N–.05 143.59E–.06 33 3.5b,3.6
JMA VI 25 03 32 23.2–.40 36.62N 143.62E 44 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=25.2km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.5km az=43.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 25 05 37 38.4–1.4 38.65N–.07 144.7E–.10 35 3.6b 28 2-69
NIED VI 25 05 37 00 38.70N 144.70E 5 3.5W **¶17206904**
IDC VI 25 05 37 33.2–2.1 38.60N 144.90E 0 3.8,3.8
ISCJB VI 25 05 37 36.8–.89 38.59N–.05 144.69E–.07 35 3.6b,3.8
JMA VI 25 05 37 37.4–.20 38.74N 144.65E 36 3.6,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S2.00000°,δ31.00000°,λ-81.00000°. NP2:ϕ_S172.00000°,δ60.00000°,λ-95.00000°. $M_0$1.95000×10^{14}
IDC Error ellipse: s-maj=48.4km s-min=27.7km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=7.3km az=149.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 25 06 54 31.9–.43 37.10N–.04 142.47E–.04 21–3 4.7b,4.3s 305 1-146
NIED VI 25 06 54 00 37.00N 142.50E 17 4.6W,4.3s **¶16681193**
BJI VI 25 06 54 24.9 37.13N 142.93E 13 5.0b,4.7b
JMA VI 25 06 54 27.8–.30 37.02N 142.47E 15–4 4.7,4.7b
IDC VI 25 06 54 28.5–.53 37.04N 142.34E 0 4.6,4.5
NEIC VI 25 06 54 31.0–1.7 37.07N 142.36E 13–11 4.7b,4.5
ISCJB VI 25 06 54 31.5–.18 37.05N–.02 142.36E–.02 29 4.7b,4.2s
MOS VI 25 06 54 34.2–.97 37.47N 142.20E 34 4.9b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S127.00000°,δ34.00000°,λ-18.00000°. NP2:ϕ_S232.00000°,δ80.00000°,λ-123.00000°. $M_0$9.24000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=14.4km s-min=11.6km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=131.0. Recorded [2 JMA] in Fukushima and Miyagi.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.6km az=174.9.
MOS Error ellipse: s-maj=7.1km s-min=4.8km az=104.1.
ISC VI 25 11 14 43.4–1.5 35.68N–.06 143.83E–.10 35 26 2-60
IDC VI 25 11 14 39.9–2.0 35.62N 143.79E 0 3.8,3.7 **¶17206918**
ISCJB VI 25 11 14 42.3–.86 35.70N–.06 143.78E–.07 33 3.6b,3.7
JMA VI 25 11 14 45.3–.40 35.76N 143.49E 123 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=40.3km s-min=28.4km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=7.5km az=24.5.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC VI 25 13 49 06.4–1.1 36.57N–.05 143.67E–.08 35 3.4b 24 2-89
IDC VI 25 13 49 01.6–1.5 36.51N 143.87E 0 3.6,3.3 **¶17206922**
ISCJB VI 25 13 49 05.1–.83 36.58N–.05 143.62E–.06 33 3.4b,3.3
JMA VI 25 13 49 06.0–.30 36.61N 143.60E 56 3.2,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=49.8km s-min=32.4km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.3km az=145.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 25 15 01 30.7–.68 36.58N–.04 143.65E–.07 35 3.8b 46 2-89
NIED VI 25 15 01 00 36.60N 143.60E 5 3.9W **¶16720994**
IDC VI 25 15 01 25.1–.77 36.41N 143.85E 0 4.0,3.9
ISCJB VI 25 15 01 28.6–.50 36.57N–.03 143.60E–.04 33 3.8b,3.9
JMA VI 25 15 01 29.2–.10 36.62N 143.60E 60 3.6,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S25.00000°,δ21.00000°,λ-76.00000°. NP2:ϕ_S190.00000°,δ70.00000°,λ-95.00000°. $M_0$8.39000×10^{14}
IDC Error ellipse: s-maj=22.4km s-min=17.8km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=136.2.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 25 15 04 15.0–.54 39.94N–.04 143.10E–.05 12 4.3b,3.9s 111 1-87
NIED VI 25 15 04 00 40.00N 143.20E 23 4.4W,3.9s **¶16682693**
ISCJB VI 25 15 04 12.8–.40 39.88N–.03 143.37E–.05 12 4.1b,3.9s
IDC VI 25 15 04 12.8–.77 39.85N 143.20E 0 4.1,4.0
JMA VI 25 15 04 14.8–.30 39.98N 143.20E 11–3 4.2,4.0
MOS VI 25 15 04 16.5–.87 39.89N 143.32E 40 4.6b,4.1s
NEIC VI 25 15 04 17.8–.49 39.88N 143.27E 35 4.5b,4.1s
BJI VI 25 15 04 20.2 40.09N 142.56E 36 4.9b,4.5b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S198.00000°,δ21.00000°,λ87.00000°. NP2:ϕ_S21.00000°,δ69.00000°,λ91.00000°. $M_0$4.69000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.6km az=37.6.
IDC Error ellipse: s-maj=22.5km s-min=14.5km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.5km s-min=6.5km az=96.9.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.3km az=112.0.
ISC VI 25 16 29 17.7–.81 36.08N–.05 142.01E–.08 23 4.0b,3.4s 39 1-89
NIED VI 25 16 29 00 36.10N 141.90E 17 4.1W,3.4s **¶16720995**
IDC VI 25 16 29 14.4–.94 36.05N 142.00E 0 4.0b,4.0
ISCJB VI 25 16 29 15.7–.56 36.09N–.03 142.05E–.05 23 3.9b,3.6s
JMA VI 25 16 29 17.7–.10 36.12N 141.91E 66–3 3.6,3.6s
NEIC VI 25 16 29 19.6–.64 36.07N 141.98E 35 4.3b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S195.00000°,δ34.00000°,λ80.00000°. NP2:ϕ_S27.00000°,δ56.00000°,λ97.00000°. $M_0$1.39000×10^{15}
IDC Error ellipse: s-maj=23.9km s-min=16.0km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=20.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=10.4km az=134.0.
IDC VI 25 18 21 13.2–3.7 37.21N 142.48E 60–32 3.3,3.2
¶17206934
IDC Error ellipse: s-maj=38.1km s-min=28.3km az=93.0.
ISC VI 25 19 47 55.6–1.5 37.05N–.05 143.30E–.10 35 21 2-61
IDC VI 25 19 47 52.6–3.4 36.75N 143.43E 0 3.6,3.5 **¶17206938**
ISCJB VI 25 19 47 53.7–.98 37.05N–.04 143.33E–.08 33 3.5b,3.5
JMA VI 25 19 47 54.9–.30 37.08N 143.26E 46 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=62.0km s-min=42.8km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.7km az=164.8.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 25 20 50 39.3–1.1 37.88N–.06 144.27E–.08 35 3.6b 32 2-83
NIED VI 25 20 50 00 37.90N 144.10E 5 3.6W **¶17206942**
IDC VI 25 20 50 34.8–1.1 37.79N 144.29E 0 3.8,3.7
ISCJB VI 25 20 50 37.6–.75 37.90N–.05 144.25E–.06 33 4.1s,3.7b
JMA VI 25 20 50 38.6–.30 37.88N 144.10E 33 3.7,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S328.00000°,δ36.00000°,λ-133.00000°. NP2:ϕ_S197.00000°,δ64.00000°,λ-64.00000°. $M_0$3.33000×10^{14}
IDC Error ellipse: s-maj=27.6km s-min=20.5km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.6km az=24.6.
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
ISC VI 26 02 01 54.0–1.5 37.93N–.06 144.30E–.08 35 26 2-58
IDC VI 26 02 01 50.3–1.4 37.74N 144.32E 0 3.8,3.5 **¶17206952**
ISCJB VI 26 02 01 53.3–.88 38.00N–.04 144.25E–.06 33 3.6b,3.5
JMA VI 26 02 01 54.9–.20 37.92N 144.09E 39 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=38.2km s-min=24.8km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.2km az=41.9.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 26 02 20 30.5–.30 36.86N 143.86E 46 3.6
¶600649205
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 26 04 12 13.0–2.7 39.37N–.06 143.21E–.08 26–18 4.0b,3.2s 44 1-88
NIED VI 26 04 12 00 39.30N 143.20E 17 4.0W,3.2s **¶16720999**
ISCJB VI 26 04 12 11.8–1.0 39.33N–.05 143.30E–.07 35–9 3.9b,3.0s
JMA VI 26 04 12 11.2–.10 39.34N 143.24E 21–2 3.9,3.0s
IDC VI 26 04 12 15.4–2.9 39.24N 143.06E 52–26 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S204.00000°,δ38.00000°,λ-126.00000°. NP2:ϕ_S67.00000°,δ60.00000°,λ-65.00000°. $M_0$9.56000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.6km az=19.9.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=15.3km az=105.0.
ISC VI 26 08 02 15.0–4.9 38.01N–.10 143.3E–.20 32–19 18 2-62
IDC VI 26 08 02 19.0–13 38.94N 143.05E 0 3.7,3.5b **¶17206967**
JMA VI 26 08 02 24.6–.20 38.28N 142.83E 25–3 3.5,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=287.8km s-min=61.2km az=180.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 26 08 41 23.5–1.3 36.64N–.06 142.46E–.09 15 3.6b 24 1-57
NIED VI 26 08 41 00 36.70N 142.40E 20 3.7W **¶17206969**
IDC VI 26 08 41 21.0–1.8 36.68N 142.66E 0 3.8,3.8
ISCJB VI 26 08 41 21.7–.96 36.66N–.05 142.57E–.10 15 3.6b,3.8
JMA VI 26 08 41 22.8–.30 36.67N 142.42E 17 3.8,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S200.00000°,δ30.00000°,λ94.00000°. NP2:ϕ_S16.00000°,δ60.00000°,λ88.00000°. $M_0$4.03000×10^{14}
IDC Error ellipse: s-maj=37.2km s-min=23.5km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.6km az=7.4.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 26 11 26 16.9–1.3 39.74N–.06 144.44E–.07 25–7 3.7b 35 2-82
ISCJB VI 26 11 26 17.2–.97 39.80N–.04 144.37E–.07 45–13 3.6b,3.4s **¶17206977**
JMA VI 26 11 26 17.9–.20 39.80N 144.30E 45 3.2,3.4s
IDC VI 26 11 26 18.6–8.0 39.68N 144.54E 34–59 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=4.5km az=36.1.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=68.6km s-min=24.6km az=83.0.
JMA VI 26 12 28 18.4–.20 37.47N 142.22E 9–2 3.9
¶16721005
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 26 14 10 22.7–.30 37.36N 143.70E 49 3.5
¶600649433
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 26 18 05 41.5–3.3 36.35N–.04 142.47E–.09 1–23 3.6b 35 1-57
NIED VI 26 18 05 00 36.40N 142.60E 5 3.6W **¶600649576**
ISCJB VI 26 18 05 43.3–1.4 36.36N–.03 142.47E–.07 17–13 3.5b
JMA VI 26 18 05 43.3–.20 36.35N 142.57E 34 3.5
IDC VI 26 18 06 05.5–1.6 34.89N 137.56E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S60.00000°,δ36.00000°,λ161.00000°. NP2:ϕ_S166.00000°,δ79.00000°,λ56.00000°. $M_0$2.41000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.3km az=16.8.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=42.2km s-min=25.4km az=88.0.
ISC VI 26 23 47 18.1–.81 36.58N–.05 143.15E–.07 35 4.3b 40 2-74
NIED VI 26 23 47 00 36.70N 143.70E 8 3.7W **¶16731566**
JMA VI 26 23 47 09.4–.30 36.72N 143.66E 55 4.0
NEIC VI 26 23 47 13.8–3.8 35.77N 143.31E 27–25 4.4b
IDC VI 26 23 47 13.7–3.7 36.31N 143.19E 0 4.0,4.0
ISCJB VI 26 23 47 16.3–.62 36.38N–.05 143.13E–.05 35 4.3b,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S352.00000°,δ56.00000°,λ-167.00000°. NP2:ϕ_S254.00000°,δ79.00000°,λ-35.00000°. $M_0$4.18000×10^{14}
NEIC Event type se.
ISCJB Event type se.
ISC VI 27 00 19 09.9–1.6 34.95N–.07 142.8E–.10 35 3.9b 26 2-59
NIED VI 27 00 19 00 34.90N 142.90E 5 3.5W **¶17207032**
IDC VI 27 00 19 05.5–3.9 34.91N 142.92E 0 3.8,3.7
JMA VI 27 00 19 07.8–.20 34.93N 142.86E 60 3.5,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S42.00000°,δ26.00000°,λ-67.00000°. NP2:ϕ_S197.00000°,δ66.00000°,λ-101.00000°. $M_0$1.73000×10^{14}
IDC Error ellipse: s-maj=78.2km s-min=37.5km az=39.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 27 03 29 41.8–.20 38.18N 143.68E 22 3.5
¶600649803
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 27 05 20 47.0–1.6 37.38N–.07 143.8E–.10 35 3.6b 17 2-61
ISCJB VI 27 05 20 44.8–1.0 37.36N–.05 143.88E–.08 33 3.7b **¶17207047**
IDC VI 27 05 20 45.6–2.2 36.72N 143.78E 0 3.8,3.6
JMA VI 27 05 20 46.7–.20 37.38N 143.72E 47 3.5,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.7km az=162.0.
IDC Error ellipse: s-maj=53.6km s-min=27.4km az=53.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 27 06 01 49.1–1.2 36.70N–.05 142.99E–.08 29 27 2-57
IDC VI 27 06 01 45.3–1.5 36.55N 143.15E 0 3.7,3.5 **¶17207052**
ISCJB VI 27 06 01 47.8–.85 36.68N–.04 142.96E–.06 29 3.4b,3.5

JMA VI 27 06 01 48.7–.10 36.72N 142.94E 46 3.4,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=23.3km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.8km az=6.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 27 06 53 58.7–3.8 38.1N–.10 143.8E–.20 47–33 3.6b 12 2-62
NIED VI 27 06 53 00 38.20N 143.90E 5 3.5W **¶17207057**
IDC VI 27 06 53 51.4–2.9 38.02N 144.15E 0 3.8,3.7b
JMA VI 27 06 53 55.6–.20 38.16N 143.86E 37 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s20.00000°,δ37.00000°,λ-80.00000°. NP2:ϕ_s188.00000°,δ54.00000°,λ-97.00000°. $M_0$2.09000×10^{14}
IDC Error ellipse: s-maj=74.0km s-min=33.1km az=55.0.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 27 12 12 05.7–.54 39.32N–.04 143.64E–.04 24–2 4.8b,4.4s 397 1-145
NIED VI 27 12 12 00 39.30N 143.90E 8 4.8W,4.4s **¶16683855**
IDC VI 27 12 12 01.3–.53 39.19N 143.76E 0 4.6,4.5
JMA VI 27 12 12 02.1–.10 39.25N 143.86E 32 4.9,4.5
ISCJB VI 27 12 12 03.6–.78 39.31N–.02 143.51E–.03 17–5 4.7b,4.4s
BJI VI 27 12 12 05.1 39.29N 143.49E 32 5.1b,5.0b
MOS VI 27 12 12 05.7–1.1 39.43N 143.45E 28 5.0b,4.4s
NEIC VI 27 12 12 07.8–.19 39.31N 143.47E 35 4.8b,4.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s179.00000°,δ37.00000°,λ62.00000°. NP2:ϕ_s32.00000°,δ58.00000°,λ109.00000°. $M_0$2.03000×10^{16}
IDC Error ellipse: s-maj=14.1km s-min=11.1km az=109.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=143.4.
MOS Error ellipse: s-maj=6.8km s-min=4.4km az=112.2.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.3km az=145.0.
ISC VI 27 16 27 51.0–1.4 37.10N–.06 144.6E–.10 26 3.6b 33 3-61
IDC VI 27 16 27 46.5–1.9 36.98N 144.89E 0 3.7,3.6 **¶17207087**
ISCJB VI 27 16 27 49.2–.78 37.00N–.04 144.52E–.06 26 3.6b,3.6
JMA VI 27 16 27 53.2–.30 37.13N 144.41E 54 3.8,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=47.3km s-min=25.0km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.6km az=37.9.
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 27 16 37 42.3–.54 36.80N–.05 142.19E–.06 19 4.2b 80 1-146
NIED VI 27 16 37 00 36.90N 141.80E 17 4.2W **¶16684569**
IDC VI 27 16 37 39.1–.58 36.78N 142.15E 0 4.2,4.2b
ISCJB VI 27 16 37 40.1–.36 36.79N–.03 142.12E–.04 19 4.2b,3.0s
BJI VI 27 16 37 40.0 36.77N 141.96E 8 4.9b,4.6s
NEIC VI 27 16 37 41.6–2.4 36.82N 142.13E 16–15 4.5b,4.6s
JMA VI 27 16 37 44.3–.40 36.87N 141.82E 49 4.3,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s341.00000°,δ25.00000°,λ-102.00000°. NP2:ϕ_s174.00000°,δ66.00000°,λ-84.00000°. $M_0$2.07000×10^{15}
IDC Error ellipse: s-maj=16.4km s-min=11.7km az=104.0.
ISCJB Event type fe. Error ellipse: s-maj=5.3km s-min=4.1km az=24.0.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=4.7km az=121.0. Recorded [1 JMA] in Fukushima and Miyagi.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC VI 27 17 30 16.6–1.6 37.44N–.08 142.6E–.10 21 3.7b 12 1-61
ISCJB VI 27 17 30 12.8–1.2 37.40N–.07 142.7E–.10 21 3.7b **¶17207088**
JMA VI 27 17 30 12.1–.90 37.39N 142.72E 18 3.4
IDC VI 27 17 30 15.3–2.8 36.94N 142.64E 0 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=9.2km az=151.3.
JMA Error ellipse: s-maj=3.3km s-min=7.1km az=-1.0.
IDC Error ellipse: s-maj=74.7km s-min=29.3km az=55.0.
IDC VI 27 17 39 37.1–1.9 38.74N 143.65E 0 3.8,3.8L
¶17207089
IDC Error ellipse: s-maj=163.5km s-min=23.2km az=116.0.
ISC VI 27 18 10 05.5–2.9 36.26N–.05 142.01E–.07 23–21 3.7b 34 1-64
NIED VI 27 18 10 00 36.30N 141.90E 23 3.9W **¶17207090**
IDC VI 27 18 10 02.0–.97 36.24N 142.13E 0 3.8,3.7
ISCJB VI 27 18 10 04.4–1.8 36.28N–.04 142.03E–.05 30–14 3.7b,3.7
JMA VI 27 18 10 05.3–.10 36.29N 141.88E 74–3 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s208.00000°,δ26.00000°,λ104.00000°. NP2:ϕ_s13.00000°,δ65.00000°,λ83.00000°. $M_0$6.72000×10^{14}
IDC Error ellipse: s-maj=22.8km s-min=17.9km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.8km az=17.1.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 27 21 43 05.9–1.3 37.25N–.06 144.35E–.09 26 3.6b 22 3-58
IDC VI 27 21 43 02.1–1.6 37.08N 144.56E 0 3.7,3.5b **¶17207100**
ISCJB VI 27 21 43 06.3–1.1 37.37N–.06 144.23E–.08 26 3.5b,3.5b
JMA VI 27 21 43 07.9–.20 37.39N 144.16E 34 3.4,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=40.1km s-min=33.1km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=8.7km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISC VI 27 22 31 29.6–.98 36.45N–.04 142.59E–.06 25–6 4.4b,3.4s 119 2-146
NIED VI 27 22 31 00 36.50N 142.70E 8 4.2W,3.4s **¶16684574**
IDC VI 27 22 31 24.9–.77 36.41N 142.69E 0 4.2,4.1
ISCJB VI 27 22 31 25.9–1.1 36.45N–.03 142.62E–.04 16–7 4.4b,3.3s
NEIC VI 27 22 31 26.7–1.9 36.43N 142.71E 12–11 4.8b,3.3s
JMA VI 27 22 31 27.2–.20 36.45N 142.66E 56 3.9,3.3s
BJI VI 27 22 31 31.2 36.61N 142.31E 40 4.9b,4.6b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s205.00000°,δ38.00000°,λ93.00000°. NP2:ϕ_s21.00000°,δ52.00000°,λ88.00000°. $M_0$2.16000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=16.7km az=110.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=17.7.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.6km az=110.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 27 22 53 35.2–.40 37.18N 144.33E 42 3.5
¶600650321
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 28 00 25 52.1–1.5 36.91N–.07 142.05E–.09 19 19 1-57
IDC VI 28 00 25 49.1–2.5 36.68N 142.27E 0 3.6,3.5b **¶17207105**
ISCJB VI 28 00 25 50.9–1.2 36.82N–.06 142.09E–.09 19 3.4b,3.5b
JMA VI 28 00 25 51.2–.50 36.86N 142.01E 12–4 3.1,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=52.3km s-min=29.6km az=50.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.3km az=0.0.
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 28 00 57 36.2–.56 34.70N–.06 141.84E–.06 21 4.1b 76 1-147
NIED VI 28 00 57 00 34.60N 142.00E 17 4.3W **¶16721023**
IDC VI 28 00 57 33.2–.65 34.66N 141.75E 0 4.1,4.0
ISCJB VI 28 00 57 34.3–.36 34.68N–.04 141.86E–.04 21 4.2b,3.9s
JMA VI 28 00 57 34.0–.40 34.63N 141.96E 40–4 3.9,3.9s
NEIC VI 28 00 57 36.6–2.0 34.65N 141.83E 23–14 4.6b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ58.00000°,λ167.00000°. NP2:ϕ_s322.00000°,δ79.00000°,λ33.00000°. $M_0$3.15000×10^{15}
IDC Error ellipse: s-maj=16.3km s-min=15.2km az=108.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=5.0km az=44.3.
JMA Error ellipse: s-maj=2.2km s-min=3.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=5.8km az=64.0.
JMA VI 28 04 45 15.6–.50 37.11N 143.67E 21 3.5
¶600651381
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
ISC VI 28 07 42 54.1–.62 40.55N–.04 143.94E–.04 25–3 5.0s,4.8b 395 2-149
NIED VI 28 07 42 00 40.40N 144.10E 5 4.8W,4.8b **¶16683892**
IDC VI 28 07 42 49.1–.57 40.40N 144.12E 0 4.5,4.5
JMA VI 28 07 42 50.9–.20 40.39N 144.09E 42 4.8,4.5
ISCJB VI 28 07 42 50.9–.83 40.52N–.02 143.84E–.03 11–5 4.8s,4.7b
BJI VI 28 07 42 53.7 40.49N 143.68E 28 5.2b,4.9b
MOS VI 28 07 42 53.7–1.1 40.53N 143.81E 34 5.1b,4.6s
GCMT VI 28 07 42 55.0–.60 40.28N 144.26E 15 5.2W,4.6s
NEIC VI 28 07 42 55.0–1.4 40.53N 143.81E 27–10 4.9b,4.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s161.00000°,δ56.00000°,λ34.00000°. NP2:ϕ_s50.00000°,δ62.00000°,λ141.00000°. $M_0$1.77000×10^{16}
IDC Error ellipse: s-maj=14.4km s-min=11.9km az=118.0.
JMA Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=137.6.
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=111.2.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c40; s57,c89; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.63±.18 $M_{\theta\theta}$0.14±.16; $M_{\phi\phi}$-1.77±.12; $M_{r\theta}$6.46±.61; $M_{\theta\phi}$-0.65±.10; $M_{\phi r}$4.78±.45; Best double couple: NP1:ϕ_s52.00000°,δ85.00000°,λ98.00000°. NP2:ϕ_s175.00000°,δ9.00000°,λ33.00000°. Principal axes: T 8.4490,Plg49.0000°,Azm331.0000°; N -0.4340,Plg8.0000°,Azm232.0000° ; P -8.0150,Plg40.0000°,Azm135.0000° $M_0$8.23200×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.7km az=140.0.
ISC VI 28 08 25 14.8–.98 40.41N–.04 144.11E–.06 16 3.6b 43 2-61
ISCJB VI 28 08 25 13.1–.61 40.43N–.03 144.07E–.05 16 3.5b **¶17207129**
IDC VI 28 08 25 13.5–1.3 40.22N 144.11E 0 3.6,3.5b
JMA VI 28 08 25 14.7–.20 40.41N 144.02E 30 3.3,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.2km az=31.6.
IDC Error ellipse: s-maj=35.7km s-min=26.8km az=111.0.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
JMA VI 28 09 55 13.2–.40 36.99N 143.75E 40 3.9
¶600651490
JMA Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0.
ISC VI 28 11 32 29.2–.75 38.16N–.05 144.65E–.07 35 3.9b,3.0s 58 3-87
NIED VI 28 11 32 00 38.20N 144.50E 8 4.0W,3.0s **¶16731698**
IDC VI 28 11 32 23.4–.96 37.98N 144.81E 0 4.1,3.9
NEIC VI 28 11 32 25.9–.63 38.13N 144.65E 10 4.3b,3.9
ISCJB VI 28 11 32 27.2–.47 38.10N–.03 144.55E–.04 33 3.9b,3.1s
JMA VI 28 11 32 28.1–.20 38.20N 144.54E 43 4.4,3.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ26.00000°,λ-93.00000°. NP2:ϕ_s213.00000°,δ64.00000°,λ-89.00000°. $M_0$1.26000×10^{15}
IDC Error ellipse: s-maj=23.7km s-min=19.0km az=146.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.3km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.3km az=136.7.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 28 14 50 13.9–.70 37.27N–.06 142.18E–.06 19 4.2b,3.2s 48 1-146
NIED VI 28 14 50 00 37.30N 142.30E 8 4.2W,3.2s **¶16721025**
JMA VI 28 14 50 10.7–.40 37.26N 142.34E 5–3 4.3,3.2s
ISCJB VI 28 14 50 12.7–.52 37.34N–.05 142.39E–.05 19 4.3b,3.4s
IDC VI 28 14 50 12.7–.76 37.61N 142.41E 0 4.3,4.2b
NEIC VI 28 14 50 13.9–3.6 37.46N 142.39E 11–22 4.4b,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ38.00000°,λ-116.00000°. NP2:ϕ_s58.00000°,δ56.00000°,λ-71.00000°. $M_0$1.95000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.2km az=144.5.
IDC Error ellipse: s-maj=18.8km s-min=17.3km az=136.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=7.9km az=119.0.
ISC VI 28 15 30 02.0–.64 37.21N–.05 142.25E–.06 19 3.9b 34 1-146
ISCJB VI 28 15 29 59.7–.52 37.16N–.04 142.46E–.06 19 4.0b,2.9s **¶600651816**
IDC VI 28 15 29 59.5–.78 37.22N 142.36E 0 4.0,3.9
NIED VI 28 15 30 00 37.40N 141.80E 8 3.9W,3.9
NEIC VI 28 15 30 04.2–.50 37.20N 142.37E 35 4.6b,3.9
JMA VI 28 15 30 07.1–.30 37.41N 141.82E 26 3.5,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.8km az=22.6.
IDC Error ellipse: s-maj=22.8km s-min=16.7km az=103.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s60.00000°,δ42.00000°,λ-58.00000°. NP2:ϕ_s201.00000°,δ56.00000°,λ-115.00000°. $M_0$6.75000×10^{14}
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=8.2km az=105.0.
JMA Error ellipse: s-maj=1.1km s-min=2.6km az=-1.0.
ISC VI 28 16 19 32.4–1.6 36.99N–.06 143.9E–.10 35 19 2-61
IDC VI 28 16 19 27.5–2.1 36.96N 144.16E 0 3.8,3.8 **¶17207150**
ISCJB VI 28 16 19 30.3–.97 37.02N–.06 143.94E–.07 33 3.7b,3.8
JMA VI 28 16 19 32.4–.20 37.11N 143.84E 44 3.6,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=47.9km s-min=31.7km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.7km az=40.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 28 21 46 33.5–.30 36.96N 143.76E 43 3.5
¶600652011
JMA Error ellipse: s-maj=1.1km s-min=2.7km az=-1.0.
ISC VI 29 00 32 14.8–.93 37.50N–.07 142.44E–.07 21 3.6b 27 1-89
NIED VI 29 00 32 00 37.50N 142.40E 8 3.8W **¶17207158**
JMA VI 29 00 32 11.9–.30 37.46N 142.42E 6–3 4.0
IDC VI 29 00 32 11.2–.92 37.40N 142.53E 0 3.9,3.7
ISCJB VI 29 00 32 12.8–.68 37.47N–.06 142.52E–.06 21 3.8b,3.6s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s18.00000°,δ35.00000°,λ-109.00000°. NP2:ϕ_s221.00000°,δ57.00000°,λ-77.00000°. $M_0$4.81000×10^{14}
ISCJB Event type ke.
ISC VI 29 01 39 16.7–1.1 40.07N–.06 143.88E–.09 10 3.8b 21 2-67
NIED VI 29 01 39 00 40.00N 143.80E 11 3.7W **¶17207161**
IDC VI 29 01 39 13.6–1.4 40.64N 144.02E 0 3.8,3.6
JMA VI 29 01 39 17.6–.30 40.05N 143.77E 0 3.8,3.6
ISCJB VI 29 01 39 18.6–.90 40.02N–.05 143.81E–.09 10 3.5b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s192.00000°,δ29.00000°,λ71.00000°. NP2:ϕ_s33.00000°,δ62.00000°,λ100.00000°. $M_0$4.23000×10^{14}
ISCJB Event type ke.
JMA VI 29 01 49 45.3–.20 37.25N 142.16E 26–4 3.6
¶600652130
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
JMA VI 29 04 39 49.9–.30 38.32N 144.58E 39 3.6
¶600652209
JMA Error ellipse: s-maj=2.2km s-min=2.6km az=-1.0.
JMA VI 29 06 16 10.2–.20 38.24N 144.35E 11 3.5
¶600652267
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 29 16 39 09.2–.73 37.91N–.04 144.77E–.04 26–4 4.4b,3.5s 206 3-144
NIED VI 29 16 39 00 38.00N 144.50E 17 4.2W,3.5s **¶16702448**
IDC VI 29 16 39 04.8–.60 37.80N 144.75E 0 4.3,4.3
BJI VI 29 16 39 05.9 38.32N 145.09E 26 4.7b,4.4b
JMA VI 29 16 39 09.8–.20 37.98N 144.45E 42 4.9,4.4b
MOS VI 29 16 39 10.4–1.0 38.19N 144.53E 36 4.6b,4.4b
NEIC VI 29 16 39 10.3–1.7 37.91N 144.65E 32–11 4.5b,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ79.00000°,λ-3.00000°. NP2:ϕ_s348.00000°,δ87.00000°,λ-169.00000°. $M_0$2.00000×10^{15}
IDC Error ellipse: s-maj=15.6km s-min=12.6km az=128.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.8km s-min=5.9km az=108.2.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.5km az=147.0.
ISC VI 29 18 21 36.2–.71 38.44N–.05 144.69E–.07 35 4.1b 59 2-87
NIED VI 29 18 21 00 38.50N 144.50E 5 3.9W **¶16731797**
NEIC VI 29 18 21 32.0–3.1 38.40N 144.79E 4–18 4.6b
IDC VI 29 18 21 31.2–.87 38.35N 144.79E 0 4.1,4.0
ISCJB VI 29 18 21 34.9–.51 38.44N–.04 144.55E–.06 35 4.1b,4.0
JMA VI 29 18 21 35.6–.20 38.47N 144.46E 48 4.3,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s6.00000°,δ35.00000°,λ-88.00000°. NP2:ϕ_s184.00000°,δ55.00000°,λ-91.00000°. $M_0$7.50000×10^{14}
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.3km az=118.0.
IDC Error ellipse: s-maj=22.0km s-min=15.7km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.4km az=25.4.

JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC VI 29 19 48 28.6–.75 37.22N–.08 142.47E–.08 9 4.0b 29 1-146
ISCJB VI 29 19 48 26.5–.61 37.12N–.06 142.63E–.07 9 4.0b **¶16721032**
NEIC VI 29 19 48 28.9–5.7 37.23N 142.59E 10–35 4.6b
JMA VI 29 19 48 29.0–.60 37.31N 142.37E 8 4.0
IDC VI 29 19 48 33.8–2.4 37.11N 142.42E 48–24 3.9,3.8L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=7.0km az=137.2.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=10.4km az=123.0.
JMA Error ellipse: s-maj=2.2km s-min=4.4km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=14.3km az=89.0.
ISC VI 29 20 09 47.0–.78 37.06N–.05 142.46E–.05 19–2 4.4b,3.8s 131 1-146
NIED VI 29 20 09 00 37.10N 142.40E 17 4.5W,3.8s **¶16704494**
ISCJB VI 29 20 09 43.5–1.0 37.09N–.03 142.46E–.03 7–6 4.3b,3.8s
BJI VI 29 20 09 44.8 36.79N 142.65E 30 4.8b,4.5b
IDC VI 29 20 09 44.4–.52 37.05N 142.34E 0 4.3,4.2
JMA VI 29 20 09 45.3–.30 37.06N 142.37E 22–5 4.4,4.2
NEIC VI 29 20 09 46.4–2.4 37.06N 142.43E 14–15 4.7b,4.2
MOS VI 29 20 09 47.4–.97 37.21N 142.44E 32 4.7b,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s270.00000°,δ49.00000°,λ-133.00000°. NP2:ϕ_s145.00000°,δ57.00000°,λ-52.00000°. $M_0$5.53000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.6km az=156.1.
IDC Error ellipse: s-maj=14.8km s-min=11.7km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=8.0km s-min=5.1km az=115.0. Recorded [1 JMA] in Fukushima and Miyagi.
MOS Error ellipse: s-maj=8.8km s-min=5.9km az=104.1.
ISC VI 29 20 38 20.8–1.0 36.76N–.04 143.27E–.05 20–4 4.6b,3.7s 234 2-151
NIED VI 29 20 38 00 36.80N 143.20E 8 4.4W,3.7s **¶16704495**
IDC VI 29 20 38 17.4–.53 36.74N 143.34E 0 4.6,4.5
BJI VI 29 20 38 17.8 36.92N 143.39E 15 4.9b,4.5b
NEIC VI 29 20 38 18.6–2.4 36.73N 143.29E 8–14 4.7b,4.5b
ISCJB VI 29 20 38 19.3–1.1 36.82N–.03 143.18E–.03 15–6 4.6b,4.0s
JMA VI 29 20 38 21.3–.20 36.84N 143.16E 59 4.8,4.0s
MOS VI 29 20 38 22.9–.99 37.16N 143.16E 31 4.8b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ42.00000°,λ-97.00000°. NP2:ϕ_s219.00000°,δ49.00000°,λ-83.00000°. $M_0$4.61000×10^{15}
IDC Error ellipse: s-maj=14.8km s-min=11.9km az=120.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.8km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=152.5.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
MOS Error ellipse: s-maj=8.3km s-min=5.0km az=112.5.
ISC VI 29 22 22 48.9–1.2 37.77N–.05 142.12E–.08 21 19 1-58
IDC VI 29 22 22 46.9–1.5 37.48N 142.96E 0 3.7,3.5 **¶17207221**
ISCJB VI 29 22 22 48.2–.87 37.77N–.04 142.13E–.06 21 3.5b,3.5
JMA VI 29 22 22 50.2–.10 37.80N 142.06E 35–2 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=55.3km s-min=25.6km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.4km az=11.3.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA VI 30 05 03 46.4–.10 37.91N 144.12E 43 3.7
¶600476500
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC VI 30 06 22 27.6–.69 37.97N–.05 144.03E–.05 23–4 4.5b,3.9s 192 2-144
NIED VI 30 06 22 00 38.00N 143.90E 5 4.3W,3.9s **¶16702455**
IDC VI 30 06 22 23.5–.63 37.90N 144.05E 0 4.3,4.3
BJI VI 30 06 22 24.0 38.09N 144.43E 30 4.8b,4.6b
JMA VI 30 06 22 26.9–.20 38.03N 143.89E 43 4.8,4.6b
NEIC VI 30 06 22 27.2–1.4 37.92N 144.00E 21–10 4.7b,4.6b
MOS VI 30 06 22 27.5–1.1 38.01N 143.95E 36 4.8b,4.6b
ISCJB VI 30 06 22 27.4–.24 37.98N–.03 143.87E–.03 34 4.5b,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s12.00000°,δ32.00000°,λ-101.00000°. NP2:ϕ_s205.00000°,δ59.00000°,λ-83.00000°. $M_0$3.22000×10^{15}
NEIC Event type se.
ISCJB Event type se.
ISC VI 30 12 54 24.8–2.1 37.53N–.05 142.25E–.09 11–12 21 1-61
IDC VI 30 12 54 23.9–4.0 37.23N 142.57E 0 3.6,3.5b **¶17207255**
JMA VI 30 12 54 27.1–.20 37.52N 142.19E 28–4 3.0,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=75.9km s-min=36.7km az=21.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC VI 30 16 57 08.6–4.5 37.87N–.06 142.98E–.07 10–29 4.1b 52 1-74
NIED VI 30 16 57 00 37.80N 143.00E 11 3.7W **¶16731870**
IDC VI 30 16 57 07.3–.90 37.79N 142.87E 0 3.9,3.8
JMA VI 30 16 57 07.3–.20 37.78N 142.99E 22–4 4.1,3.8
NEIC VI 30 16 57 09.1–3.1 37.79N 143.14E 14–20 4.8b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s38.00000°,δ45.00000°,λ-74.00000°. NP2:ϕ_s195.00000°,δ47.00000°,λ-106.00000°. $M_0$4.12000×10^{14}
IDC Error ellipse: s-maj=30.1km s-min=16.3km az=98.0.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=6.5km az=113.0.
JMA VI 30 19 00 25.2–.10 38.41N 144.51E 31 3.8
¶600476902
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC VI 30 21 47 57.5–.67 40.37N–.04 143.48E–.04 20–2 4.8b,4.1s 326 1-144
NIED VI 30 21 47 00 40.40N 143.50E 20 4.6W,4.1s **¶16702925**
IDC VI 30 21 47 54.0–.72 40.33N 143.54E 0 4.4,4.3
ISCJB VI 30 21 47 55.5–.76 40.36N–.02 143.50E–.03 17–5 4.6b,4.0s
JMA VI 30 21 47 55.2–.20 40.35N 143.52E 12–3 4.6,4.0s
BJI VI 30 21 47 57.9 40.41N 143.30E 34 4.9b,4.8b
MOS VI 30 21 47 59.5–.93 40.47N 143.22E 37 4.9b,4.8b
NEIC VI 30 21 47 59.3–1.6 40.38N 143.40E 30–11 4.8b,4.8b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s189.00000°,δ25.00000°,λ70.00000°. NP2:ϕ_s30.00000°,δ67.00000°,λ99.00000°. $M_0$7.73000×10^{15}
IDC Error ellipse: s-maj=17.9km s-min=14.0km az=108.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.1km az=40.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.1km az=121.5.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.8km az=118.0. Recorded [1 JMA] in Aomori and Iwate.
JMA VI 30 22 40 57.2–.20 36.98N 143.80E 53 3.5
¶600476982
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

(230) Near south coast of eastern Honshu.

ISC I 04 15 15 08.0–.94 33.13N–.10 137.9E–.10 341 3.2b 32 1-76
JMA I 04 15 15 05.8–.50 33.07N 137.84E 350–5 3.2 **¶17189435**
ISCJB I 04 15 15 06.5–.62 33.06N–.08 137.9E–.10 341 3.2b
IDC I 04 15 15 07.1–1.6 33.02N 137.89E 330–16 3.8,3.1
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=9.5km az=22.5.
IDC Error ellipse: s-maj=23.8km s-min=12.3km az=79.0.
ISC I 04 19 25 50.2–1.8 33.17N–.08 137.15E–.05 24–13 3.2b 33 1-57
NIED I 04 19 25 00 33.20N 137.10E 26 3.7W **¶17189449**
IDC I 04 19 25 47.0–.44 33.06N 137.33E 0 3.5,3.5L
JMA I 04 19 25 49.5–.20 33.16N 137.12E 58–2 3.8,3.5L
ISCJB I 04 19 25 50.2–.85 33.19N–.06 137.10E–.04 42–12 3.3b,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s94.00000°,δ29.00000°,λ105.00000°. NP2:ϕ_s258.00000°,δ62.00000°,λ82.00000°. $M_0$3.76000×10^{14}
ISCJB Event type ke.
JMA I 05 17 39 43.0–.10 35.05N 139.10E 4–1 0.7
¶600515999
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC I 07 15 22 54.7–.56 33.38N–.05 137.86E–.04 350–4 4.1b 204 0-118
NIED I 07 15 22 00 33.40N 138.00E 340 4.3W **¶15916110**
BJI I 07 15 22 52.5 33.31N 137.82E 352 4.5b,4.4b
JMA I 07 15 22 52.3–.20 33.35N 137.96E 364–2 3.8,4.4b
MOS I 07 15 22 53.1–.99 33.25N 137.76E 350 4.2b,4.4b
ISCJB I 07 15 22 53.2–.28 33.32N–.04 137.91E–.04 352–1 4.0b,4.4b
IDC I 07 15 22 54.2–.55 33.28N 137.75E 346–5 4.4,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ16.00000°,λ-159.00000°. NP2:ϕ_s11.00000°,δ84.00000°,λ-75.00000°. $M_0$3.18000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
MOS Error ellipse: s-maj=10.7km s-min=5.2km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=147.9.
IDC Error ellipse: s-maj=9.3km s-min=8.3km az=78.0.
ISC I 15 20 47 50.3–1.0 34.8N–.10 137.4E–.10 300 2.9b 18 0-67
ISCJB I 15 20 47 49.3–.79 34.7N–.10 137.3E–.10 300 2.8b **¶17190276**
JMA I 15 20 47 49.9–.20 34.85N 137.43E 307–2 3.2
IDC I 15 20 47 49.4–1.1 34.67N 137.32E 289–10 3.3,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=10.7km az=157.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=23.3km s-min=18.1km az=62.0.
ISC I 22 02 48 08.2–.48 34.48N–.04 137.90E–.04 288–4 4.2b 240 0-126
NIED I 22 02 48 00 34.50N 137.90E 290 4.4W **¶15957575**
BJI I 22 02 48 05.3 34.35N 137.82E 277 4.6b,4.5b
MOS I 22 02 48 06.4–.87 34.36N 137.83E 284 4.4b,4.5b
IDC I 22 02 48 07.9–.53 34.37N 137.85E 286–5 4.4,3.9
NEIC I 22 02 48 07.7–.48 34.40N 137.89E 284–5 4.3b,3.9
JMA I 22 02 48 07.6–.30 34.50N 137.93E 298–3 4.1,3.9
ISCJB I 22 02 48 07.6–.21 34.46N–.03 137.89E–.04 294–1 4.2b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ30.00000°,λ0.00000°. NP2:ϕ_s51.00000°,δ90.00000°,λ-120.00000°. $M_0$4.10000×10^{15}
NEIC Event type se.
JMA Event type fe.
ISCJB Event type fe.
ISC I 30 14 15 33.2–.91 33.53N–.08 137.69E–.08 352 3.0b 27 1-70
JMA I 30 14 15 30.2–.20 33.32N 137.71E 366 3.4 **¶17191329**
ISCJB I 30 14 15 31.9–.56 33.41N–.07 137.67E–.10 352 3.0b
IDC I 30 14 15 33.1–1.0 33.39N 137.40E 340–21 3.6,3.0
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.0km az=35.6.
IDC Error ellipse: s-maj=50.4km s-min=11.1km az=69.0.
ISC I 30 19 22 12.6–.97 33.5N–.20 137.1E–.20 350 3.1b 14 1-57
IDC I 30 19 21 51.8–1.6 31.54N 135.65E 0 3.8,3.6b **¶600523760**
JMA I 30 19 22 10.8–.10 33.51N 137.30E 389 3.1,3.6b
ISCJB I 30 19 22 13.6–.67 33.4N–.10 137.3E–.10 350 3.1b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC I 31 08 21 58.0–.95 34.78N–.05 139.18E–.05 9–7 3.7b 21 0-80
NIED I 31 08 21 00 34.80N 139.20E 5 4.0W **¶15982236**
IDC I 31 08 21 57.2–.86 34.62N 139.02E 0 3.9,3.7
ISCJB I 31 08 21 58.1–.52 34.83N–.03 139.23E–.05 11–3 3.7s,3.7b
JMA I 31 08 21 58.2–.10 34.84N 139.24E 10–1 4.2,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ75.00000°,λ-11.00000°. NP2:ϕ_s89.00000°,δ80.00000°,λ-165.00000°. $M_0$1.01000×10^{15}
IDC Error ellipse: s-maj=27.0km s-min=15.0km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=149.8.
JMA Event type fe.
ISC II 02 10 15 25.6–1.4 33.1N–.20 137.82E–.09 400 2.8b 19 2-54
ISCJB II 02 10 15 24.8–.96 33.1N–.10 137.9E–.10 400 2.8b **¶600524587**
JMA II 02 10 15 25.1–.20 32.96N 137.78E 390 3.1
IDC II 02 10 15 42.5–10 36.72N 136.87E 314–63 3.2,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=8.8km az=154.9.
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=333.8km s-min=31.3km az=172.0.
JMA II 03 20 25 20.9 34.99N 137.07E 37 2.9
¶600525154
JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s310.00000°,δ84.00000°,λ169.00000°. NP2:ϕ_s41.00000°,δ79.00000°,λ6.00000°. Principal axes: T Plg12.0000°,Azm265.0000°; N Plg78.0000°,Azm100.0000°; P Plg3.0000°,Azm356.0000°
ISC II 12 20 44 31.4–.94 33.58N–.09 137.33E–.07 352 3.0b 29 1-70
JMA II 12 20 44 28.4–.20 33.44N 137.42E 382 3.5 **¶17192127**
ISCJB II 12 20 44 30.8–.61 33.53N–.08 137.37E–.07 352 3.0b
IDC II 12 20 44 31.2–1.2 33.61N 137.36E 351–9 3.6,3.0
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.2km az=150.1.
IDC Error ellipse: s-maj=19.9km s-min=14.7km az=130.0.
ISC II 13 16 34 38.8–.67 34.65N–.04 139.61E–.05 114–5 3.8b 57 0-93
NIED II 13 16 34 00 34.60N 139.60E 89 3.8W **¶17192162**
ISCJB II 13 16 34 37.8–.30 34.63N–.03 139.62E–.05 120–2 3.7b
JMA II 13 16 34 38.5–.10 34.66N 139.65E 110–1 3.6
IDC II 13 16 34 39.2–.51 34.59N 139.54E 119–4 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s131.00000°,δ3.00000°,λ-145.00000°. NP2:ϕ_s6.00000°,δ88.00000°,λ-88.00000°. $M_0$6.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=167.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=14.6km s-min=5.2km az=72.0.
ISC II 17 01 29 22.1–.80 33.47N–.08 137.39E–.06 400 3.2b 38 0-66
ISCJB II 17 01 29 20.2–.40 33.46N–.06 137.41E–.07 400 3.3b **¶17192395**
JMA II 17 01 29 20.5–.10 33.44N 137.32E 392 3.2
IDC II 17 01 29 22.3–.58 33.33N 137.29E 372–10 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.7km az=156.1.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=9.8km az=65.0.
IDC II 21 23 35 40.8–1.6 33.00N 137.74E 348–15 3.7,3.0
¶17192664
IDC Error ellipse: s-maj=18.7km s-min=18.2km az=95.0.
ISC III 03 13 48 21.8–1.1 34.13N–.08 138.54E–.07 246–8 3.1b 24 1-70
JMA III 03 13 48 20.8–.30 34.12N 138.58E 251–4 3.0 **¶602649050**
ISCJB III 03 13 48 20.8–.77 34.13N–.08 138.56E–.09 251–5 3.4b
IDC III 03 13 48 35.2–3.1 36.44N 138.26E 248–8 3.7,3.2
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=10.8km az=144.8.
IDC Error ellipse: s-maj=97.9km s-min=4.5km az=174.0.
ISC III 07 06 13 03.6–.67 35.67N–.05 139.13E–.07 145–5 3.7b 39 0-149
NIED III 07 06 13 00 35.70N 139.20E 125 3.8W **¶17193398**
ISCJB III 07 06 13 02.5–.35 35.64N–.05 139.08E–.08 148–2 3.6b
IDC III 07 06 13 03.4–.54 35.60N 139.12E 142–4 3.9,3.6
JMA III 07 06 13 04.0–.10 35.68N 139.28E 140–1 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ32.00000°,λ95.00000°. NP2:ϕ_s117.00000°,δ58.00000°,λ87.00000°. $M_0$4.94000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=6.6km az=150.5.
IDC Error ellipse: s-maj=19.4km s-min=6.3km az=68.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s106.00000°,δ58.00000°,λ64.00000°. NP2:ϕ_s328.00000°,δ40.00000°,λ125.00000°. Principal axes: T Plg66.0000°,Azm327.0000°; N Plg22.0000°,Azm120.0000°; P Plg10.0000°,Azm214.0000°
JMA III 11 05 50 07.9–.30 34.38N 139.18E 10–2 4.7
¶602653821
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
JMA III 11 05 55 54.1–.30 34.32N 139.11E 11–3 3.5
¶602653810
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.

JMA III 11 06 08 20.3 35.18N 139.03E 6–1 4.6
¶600538909

JMA III 11 06 13 10.2 35.22N 139.04E 3–1 3.6
¶602653757

JMA Event type fe.
JMA III 11 06 41 02.6–.10 34.28N 139.16E 10–1 3.1
¶603049305

JMA Event type fe.
JMA III 11 06 54 11.4 35.22N 139.02E 6–1 3.5
¶602654506

JMA Event type fe.
JMA III 11 06 54 32.2 35.22N 139.03E 7–1 3.5
¶602654501

JMA Event type fe.
JMA III 11 07 20 17.2 34.27N 139.21E 0 3.9
¶602653662

JMA Event type fe.
JMA III 11 07 24 21.9–.20 34.28N 139.15E 11–1
¶603049314

JMA III 11 10 16 17.3 35.23N 139.02E 1–1 1.9
¶603049344

JMA III 11 13 34 46.3 35.24N 139.01E 1–1 1.4
¶603049393

JMA III 11 13 37 16.6–.20 34.90N 139.23E 7–2
¶603049396

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 11 14 28 49.7–.10 34.49N 139.19E 16–1
¶602653050

JMA III 11 17 40 34.1 34.32N 139.10E 0 2.0
¶603049448

JMA III 11 17 51 02.6 35.22N 139.02E 5–1 2.4
¶603049455

JMA III 11 20 46 03.7 35.24N 139.01E 1–1
¶603049489

JMA III 11 22 52 17.7 34.57N 139.24E 0
¶16461273

JMA III 11 23 53 46.4 34.44N 139.27E 11–1 2.5
¶603049524

JMA III 12 05 29 35.1 35.24N 139.01E 1–1 1.4
¶603049561

JMA III 12 05 30 59.0 35.24N 139.01E 1–1 1.3
¶603049562

JMA III 12 06 57 37.0–.20 35.53N 139.92E 25–3 3.9
¶602656013

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 12 18 13 53.2 35.22N 139.03E 4–1 2.2
¶602654945

JMA III 12 18 14 52.9 35.22N 139.02E 3–1 1.2
¶603049645

ISC III 13 06 14 12.6–.88 35.45N–.05 139.87E–.05 10 3.6b 11 0-75
IDC III 13 06 14 10.9–.93 34.64N 141.59E 0 3.8,3.6 **¶600543153**
JMA III 13 06 14 12.4–.20 35.52N 139.88E 23–3 3.1,3.6
ISCJB III 13 06 14 12.8–.65 35.53N–.05 139.84E–.05 10 3.5b,3.6
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
JMA III 13 11 50 37.0 35.24N 139.01E 1–1 1.6
¶603049715

ISC III 13 18 12 40.9–.71 33.38N–.07 137.02E–.06 387–6 3.1b 48 0-70
JMA III 13 18 12 39.7–.30 33.34N 136.96E 394–3 3.3 **¶17194933**
ISCJB III 13 18 12 39.7–.46 33.33N–.07 137.03E–.07 391–3 3.2b
IDC III 13 18 12 41.0–.64 33.21N 136.97E 390–8 3.7,3.0
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.8km az=156.8.
IDC Error ellipse: s-maj=15.4km s-min=11.8km az=79.0.
JMA III 13 20 21 45.6–.20 35.53N 139.92E 27–3 2.7
¶603049730

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 13 20 35 15.8–1.7 34.80N 138.09E 0 4.2,4.0
¶17194979

IDC Error ellipse: s-maj=42.4km s-min=32.3km az=85.0.
ISC III 14 16 36 12.1–.96 35.49N–.05 139.90E–.06 35 3.5b 16 0-59
ISCJB III 14 16 36 11.5–.56 35.47N–.04 139.89E–.07 35 3.5b **¶600545799**
IDC III 14 16 36 12.8–3.0 35.39N 139.67E 35–21 4.3L,3.8
JMA III 14 16 36 12.7–.10 35.53N 139.88E 21–2 3.3,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=5.7km az=170.5.
IDC Error ellipse: s-maj=46.1km s-min=13.6km az=65.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 14 17 20 39.6 35.22N 139.01E 2–1 1.1
¶16461722

JMA III 14 18 09 53.4 34.64N 139.23E 10–1 2.2
¶603049778

ISC III 14 19 59 46.8–.90 35.50N–.04 139.85E–.04 32–6 4.2b 59 0-149
NIED III 14 19 59 00 35.50N 139.90E 20 4.1W **¶602443536**
ISCJB III 14 19 59 46.5–.41 35.46N–.03 139.86E–.05 45–4 4.2b
JMA III 14 19 59 46.9–.10 35.53N 139.88E 23–2 4.1
NEIC III 14 19 59 48.7–.74 35.38N 139.80E 50–6 4.7b
IDC III 14 19 59 48.9–1.2 35.40N 139.78E 50–12 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s321.00000°,δ19.00000°,λ-33.00000°. NP2:ϕ_s82.00000°,δ80.00000°,λ-106.00000°. $M_0$1.52000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.7km s-min=5.0km az=152.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ86.00000°,λ110.00000°. NP2:ϕ_s5.00000°,δ20.00000°,λ11.00000°. Principal axes: T Plg45.0000°,Azm195.0000° ; N Plg20.0000°,Azm84.0000°; P Plg38.0000°,Azm337.0000°
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=6.0km az=77.0. Recorded [3 JMA] in Ibaraki, Kanagawa, Saitama and Tokyo.
IDC Error ellipse: s-maj=15.9km s-min=8.7km az=74.0.
JMA III 14 22 44 21.8 35.53N 139.88E 20–1 2.0
¶603049791

JMA III 15 10 43 49.1 34.72N 139.30E 0 2.2
¶602662548

JMA Event type fe.
JMA III 15 19 47 56.0 35.28N 139.01E 2–1 1.1
¶603049827

IDC III 15 20 40 54.0–6.4 34.36N 139.61E 0 4.0,3.7
¶17196242

IDC Error ellipse: s-maj=335.7km s-min=28.9km az=74.0.
ISC III 16 08 32 30.1–1.3 34.2N–.10 138.0E–.30 35 3.3b 7 2-150
ISCJB III 16 08 32 28.0–1.2 34.1N–.10 138.0E–.30 33 3.3b **¶17196401**
IDC III 16 08 32 30.0–7.9 34.20N 138.04E 33–62 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.0km s-min=16.1km az=174.1.
IDC Error ellipse: s-maj=45.5km s-min=25.6km az=68.0.
ISC III 17 04 10 10.3–1.4 35.49N–.04 139.89E–.05 27–12 25 0-55
IDC III 17 04 10 08.0–2.1 35.12N 139.48E 0 3.7,3.4 **¶600552227**
ISCJB III 17 04 10 10.9–.65 35.47N–.04 139.92E–.06 44–8 3.5b,3.4
JMA III 17 04 10 11.4–.10 35.54N 139.89E 23–2 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=46.8km s-min=23.4km az=70.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.8km az=156.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s93.00000°,δ60.00000°,λ-103.00000°. NP2:ϕ_s298.00000°,δ33.00000°,λ-69.00000°. Principal axes: T Plg14.0000°,Azm193.0000° ; N Plg11.0000°,Azm100.0000°; P Plg72.0000°,Azm332.0000°
JMA III 17 04 59 20.4–.10 35.52N 139.90E 23–2 2.6
¶603049872

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 17 12 02 13.0 34.46N 139.26E 7–1 2.5
¶603049877

JMA Event type fe.
IDC III 18 01 25 15.0–1.6 34.27N 138.56E 0 3.8,3.7b
¶17196907

IDC Error ellipse: s-maj=49.3km s-min=20.9km az=74.0.
ISC III 18 16 49 10.5–1.1 34.83N–.03 139.31E–.05 11–7 3.9b,3.4s 46 0-93
NIED III 18 16 49 00 34.90N 139.20E 5 4.2W,3.4s **¶602443710**
IDC III 18 16 49 08.7–.61 34.83N 139.36E 0 4.1,4.0
ISCJB III 18 16 49 10.2–.81 34.81N–.03 139.31E–.06 20–6 3.8b,3.4s
JMA III 18 16 49 11.5 34.87N 139.24E 11–1 4.4,3.4s
NEIC III 18 16 49 13.7–.40 34.80N 139.34E 35 4.0b,3.4s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s1.00000°,δ71.00000°,λ-19.00000°. NP2:ϕ_s98.00000°,δ72.00000°,λ-160.00000°. $M_0$1.89000×10^{15}
IDC Error ellipse: s-maj=17.3km s-min=12.8km az=91.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=163.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s97.00000°,δ87.00000°,λ-174.00000°. NP2:ϕ_s7.00000°,δ84.00000°,λ-3.00000°. Principal axes: T Plg2.0000°,Azm232.0000°; N Plg84.0000°,Azm124.0000°; P Plg6.0000° ,Azm322.0000°
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.4km az=94.0. Recorded [3 JMA] in Shizuoka.
ISC III 19 07 03 12.6–1.2 35.77N–.08 139.75E–.09 35 3.3b 7 1-56
IDC III 19 07 02 55.6–2.7 36.18N 142.11E 0 3.5,3.5 **¶17197151**
ISCJB III 19 07 03 11.7–.95 35.82N–.08 139.73E–.08 35 3.2b,3.5
JMA III 19 07 03 19.4–.10 36.15N 141.20E 42–2 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=61.5km s-min=26.8km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=11.7km s-min=9.6km az=162.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
ISC III 19 17 54 03.3–.96 35.23N–.05 139.03E–.05 5–9 3.6b 17 0-59
JMA III 19 17 54 03.8 35.28N 139.01E 1–1 2.7 **¶602673215**
IDC III 19 17 54 08.0–1.4 35.44N 138.62E 0 3.6b,3.6
ISC Event type ke.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s174.00000°,δ70.00000°,λ-28.00000°. NP2:ϕ_s274.00000°,δ64.00000°,λ-158.00000°. Principal axes: T Plg4.0000°,Azm225.0000°; N Plg57.0000°,Azm321.0000°; P Plg33.0000° ,Azm132.0000°
IDC Error ellipse: s-maj=54.9km s-min=10.7km az=75.0.
ISC III 20 18 24 50.7–1.0 35.06N–.05 139.96E–.05 75–7 3.3b 22 0-66
IDC III 20 18 24 42.7–1.3 34.84N 141.61E 0 4.0,4.0s **¶600559349**
ISCJB III 20 18 24 49.9–.70 35.08N–.04 139.96E–.06 79–5 3.2b,4.0s
JMA III 20 18 24 51.1–.20 35.07N 139.96E 70–2 2.3,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=25.3km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.8km az=144.7.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA III 21 14 13 49.5 35.22N 139.03E 6–1 0.3
¶602680236

ISC III 21 14 14 32.7–1.1 35.21N–.03 139.01E–.04 3–8 3.7b,3.4s 22 0-78
NIED III 21 14 14 00 35.20N 139.00E 5 4.1W,3.4s **¶600560718**
IDC III 21 14 14 31.9–.86 35.11N 138.82E 0 3.9,3.7
ISCJB III 21 14 14 32.2–.47 35.22N–.03 139.03E–.04 7–4 3.7b,3.4s
JMA III 21 14 14 32.5 35.21N 139.02E 3–1 4.2,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s15.00000°,δ68.00000°,λ7.00000°. NP2: ϕ_s283.00000°,δ84.00000°,λ158.00000°. $M_0$1.39000×10^{15}
IDC Error ellipse: s-maj=28.8km s-min=12.4km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=4.6km az=169.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s293.00000°,δ85.00000°,λ-130.00000°. NP2:ϕ_s197.00000°,δ41.00000°,λ-8.00000°. Principal axes: T Plg28.0000°,Azm54.0000°; N Plg40.0000°,Azm297.0000°; P Plg37.0000° ,Azm168.0000°
ISC III 22 03 31 32.4–1.0 34.24N–.04 139.25E–.07 10–6 15 0-54
IDC III 22 03 31 31.3–2.3 33.99N 138.96E 0 3.6,3.4L **¶17197910**
JMA III 22 03 31 31.9 34.24N 139.24E 11–1 3.0,3.4L
ISCJB III 22 03 31 32.0–.84 34.23N–.05 139.24E–.09 11–5 3.3b,3.4L
ISC Event type ke.
JMA Event type fe.
ISCJB Event type fe.
ISC III 22 10 55 18.7–.91 34.6N–.10 137.7E–.20 32 3.3b 8 2-67
IDC III 22 10 55 14.8–1.1 34.64N 137.47E 0 3.6,3.4 **¶602683890**
ISCJB III 22 10 55 16.9–.80 34.54N–.09 137.6E–.20 32 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 15 28 27.2–.87 35.18N–.03 139.01E–.06 10–7 3.5b 21 0-55
NIED III 25 15 28 00 35.20N 139.00E 8 3.6W **¶17198519**
IDC III 25 15 28 26.4–1.3 35.12N 138.89E 0 3.5,3.5
ISCJB III 25 15 28 26.9–.48 35.18N–.03 138.97E–.06 9–5 3.4b,3.5
JMA III 25 15 28 27.4 35.18N 139.02E 8–1 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ77.00000°,λ-4.00000°. NP2: ϕ_s96.00000°,δ86.00000°,λ-167.00000°. $M_0$2.38000×10^{14}
IDC Error ellipse: s-maj=28.6km s-min=12.7km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=8.6km s-min=4.4km az=170.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s180.00000°,δ85.00000°,λ-42.00000°. NP2:ϕ_s275.00000°,δ49.00000°,λ-173.00000°. Principal axes: T Plg24.0000°,Azm235.0000°; N Plg48.0000°,Azm355.0000°; P Plg32.0000° ,Azm129.0000°
JMA III 28 11 44 31.0–.10 35.52N 139.90E 18–2 1.4
¶603049276

IDC III 31 23 03 05.5–1.7 34.92N 137.84E 0 3.6,3.6b
¶17199361

IDC Error ellipse: s-maj=32.8km s-min=24.4km az=75.0.
ISC IV 02 15 20 13.3–.92 35.54N–.04 139.99E–.05 31–6 3.6b 21 0-92
ISCJB IV 02 15 20 13.2–.68 35.52N–.04 140.00E–.06 33–5 3.5b **¶17199541**
JMA IV 02 15 20 13.4–.10 35.55N 140.00E 22–3 3.0
IDC IV 02 15 20 18.1–1.9 35.30N 139.75E 65–16 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.1km az=141.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s24.00000°,δ51.00000°,λ56.00000°. NP2: ϕ_s251.00000°,δ50.00000°,λ125.00000°. Principal axes: T Plg64.0000°,Azm229.0000° ; N Plg26.0000°,Azm47.0000°; P Plg1.0000°,Azm137.0000°
IDC Error ellipse: s-maj=33.6km s-min=6.5km az=68.0.
JMA IV 03 14 53 11.9–.10 33.19N 137.04E 51–1 1.4
¶602945404

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
JMA IV 04 00 40 09.1 34.86N 139.24E 12–1 1.2
¶600577105

ISC IV 09 12 47 50.4–.93 35.99N–.04 139.67E–.07 45–8 3.9b 41 0-79
NIED IV 09 12 47 00 36.00N 139.60E 53 4.0W **¶16506261**
ISCJB IV 09 12 47 49.5–.52 35.99N–.03 139.66E–.07 54–4 3.8b
JMA IV 09 12 47 50.9–.10 36.00N 139.64E 43–1 4.1
IDC IV 09 12 47 51.3–1.9 35.97N 139.59E 52–18 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s139.00000°,δ72.00000°,λ1.00000°. NP2:ϕ_s49.00000°,δ89.00000°,λ162.00000°. $M_0$9.70000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.1km s-min=4.9km az=173.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s136.00000°,δ86.00000°,λ30.00000°. NP2:ϕ_s44.00000°,δ60.00000°,λ175.00000°. Principal axes: T Plg24.0000°,Azm4.0000°; N Plg59.0000°,Azm143.0000°; P Plg18.0000° ,Azm266.0000°
IDC Error ellipse: s-maj=18.7km s-min=13.9km az=83.0.
ISC IV 10 00 40 00.9–1.0 35.88N–.05 139.73E–.07 84–8 3.7b 21 0-59
IDC IV 10 00 39 47.4–2.5 36.20N 140.82E 0 3.7,3.6L **¶600582348**
ISCJB IV 10 00 39 59.9–.66 35.87N–.05 139.73E–.08 90–5 3.5b,3.6L
JMA IV 10 00 40 01.1–.20 35.92N 139.80E 77–2 3.2,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=73.2km s-min=23.5km az=58.0.

ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=6.8km az=155.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ60.00000°,λ90.00000°. NP2: ϕ_s182.00000°,δ30.00000°,λ90.00000°. Principal axes: T Plg75.0000°,Azm272.0000° ; N Plg0.0000°,Azm2.0000°; P Plg15.0000°,Azm92.0000°

JMA	**IV**	**11 14 22 25.1–.10**	**35.39N**	**139.07E**	**12–1**	**2.5**		**¶600583785**

JMA Event type fe.

ISC	**IV**	**11 14 40 14.9–1.2**	**35.65N–.05**	**139.95E–.06**	**106–8**		**28**	**0-59**
ISCJB	IV	11 14 40 13.7–.71	35.65N–.04	139.97E–.06	112–5	3.8b		**¶17200636**
JMA	IV	11 14 40 15.1–.20	35.71N	139.99E	97–2	3.3		
IDC	IV	11 14 40 16.8–2.5	35.49N	139.72E	110–13	3.8,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.3km az=148.7.
JMA Error ellipse: s-maj=1.1km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=55.7km s-min=7.5km az=67.0.

IDC	**IV**	**12 00 54 11.5–2.5**	**35.20N**	**139.25E**	**83–22**	**4.1s,4.1**		**¶17200713**

IDC Error ellipse: s-maj=25.8km s-min=17.9km az=91.0.

ISC	**IV**	**15 20 12 26.3–.74**	**34.09N–.08**	**137.31E–.06**	**337–6**	**3.2b**	**44**	**1-95**
JMA	IV	15 20 12 24.3–.40	34.04N	137.38E	351–4	3.0		**¶17201167**
ISCJB	IV	15 20 12 25.3–.43	34.07N–.06	137.33E–.06	343–3	3.1b		
IDC	IV	15 20 12 25.7–.75	34.01N	137.28E	330–7	3.7,3.1		

ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.3km az=155.9.
IDC Error ellipse: s-maj=12.9km s-min=11.1km az=84.0.

ISC	**IV**	**18 17 37 07.8–.57**	**35.55N–.04**	**139.67E–.04**	**83–5**	**4.2b**	**105**	**0-125**
NIED	IV	18 17 37 00	35.50N	139.60E	80	4.2W		**¶602557577**
MOS	IV	18 17 37 05.2–1.3	35.52N	139.84E	77	4.4b		
ISCJB	IV	18 17 37 06.9–.25	35.50N–.03	139.66E–.04	91–2	4.1b		
JMA	IV	18 17 37 07.7–.10	35.55N	139.67E	84–2	4.2		
NEIC	IV	18 17 37 07.5–.55	35.49N	139.62E	81–5	4.4b		
IDC	IV	18 17 37 08.2–.80	35.47N	139.66E	89–7	4.1,3.9		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ26.00000°,λ-12.00000°. NP2:ϕ_s307.00000°,δ85.00000°,λ-116.00000°. $M_0$2.28000×10^{15}
MOS Error ellipse: s-maj=10.2km s-min=6.3km az=94.3.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.1km az=155.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s306.00000°,δ83.00000°,λ-109.00000°. NP2: ϕ_s195.00000°,δ20.00000°,λ-22.00000°. Principal axes: T Plg35.0000°,Azm52.0000° ; N Plg19.0000°,Azm308.0000°; P Plg49.0000°,Azm195.0000°
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=101.0. Recorded [3 JMA] in Kanagawa.
IDC Error ellipse: s-maj=14.1km s-min=5.6km az=72.0.

ISC	**IV**	**20 18 25 07.9–.90**	**35.92N–.05**	**139.90E–.07**	**81–7**	**4.2b**	**35**	**1-83**
IDC	IV	20 18 25 07.0–1.6	35.95N	140.09E	75–13	4.0,3.8		**¶600594229**
ISCJB	IV	20 18 25 07.2–.58	35.90N–.04	139.85E–.08	89–4	4.0b,3.8		
NEIC	IV	20 18 25 07.3–.96	35.92N	140.00E	76–7	4.6b,3.8		
JMA	IV	20 18 25 09.0–.10	35.90N	139.82E	77–1	3.4,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=9.0km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=5.6km az=168.5.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=8.3km az=100.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s357.00000°,δ70.00000°,λ87.00000°. NP2: ϕ_s185.00000°,δ20.00000°,λ98.00000°. Principal axes: T Plg65.0000°,Azm262.0000° ; N Plg3.0000°,Azm358.0000°; P Plg25.0000°,Azm89.0000°

ISC	**IV**	**24 16 04 11.7–.98**	**34.7N–.10**	**138.0E–.20**	**20**	**3.4b**	**8**	**2-75**
IDC	IV	24 16 04 08.4–1.1	34.62N	138.06E	0	3.6,3.4		**¶17201970**
ISCJB	IV	24 16 04 09.7–.86	34.63N–.09	137.9E–.20	20	3.3b,3.4		

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**28 21 42 24.4–.91**	**34.53N–.08**	**137.43E–.06**	**309–7**	**3.0b**	**38**	**0-58**
ISCJB	IV	28 21 42 23.5–.56	34.56N–.08	137.50E–.06	317–5	3.0b		**¶17202327**
JMA	IV	28 21 42 23.4–.30	34.53N	137.44E	320–3	3.0		
IDC	IV	28 21 42 24.5–1.7	34.52N	137.85E	317–49	3.5,3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=8.1km az=166.1.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=140.9km s-min=18.3km az=62.0.

ISC	**V**	**01 01 45 17.3–.73**	**35.88N–.04**	**139.79E–.06**	**82–6**	**4.0b**	**60**	**0-148**
NIED	V	01 01 45 00	35.90N	139.80E	80	4.2W		**¶16486820**
ISCJB	V	01 01 45 16.4–.37	35.86N–.03	139.79E–.06	89–3	3.9b		
JMA	V	01 01 45 17.6–.10	35.92N	139.83E	77–2	4.2		
IDC	V	01 01 45 18.3–.84	35.77N	139.70E	94–7	4.0,3.9		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ29.00000°,λ81.00000°. NP2:ϕ_s7.00000°,δ61.00000°,λ95.00000°. $M_0$2.16000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.8km az=159.2.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s9.00000°,δ64.00000°,λ92.00000°. NP2: ϕ_s184.00000°,δ26.00000°,λ86.00000°. Principal axes: T Plg71.0000°,Azm283.0000° ; N Plg2.0000°,Azm188.0000°; P Plg19.0000°,Azm97.0000°
IDC Error ellipse: s-maj=14.6km s-min=6.3km az=67.0.

JMA	**V**	**07 17 18 40.6–.10**	**35.35N**	**139.10E**	**18–1**	**2.7**		**¶600609169**

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s23.00000° ,δ54.00000°,λ62.00000°. NP2:ϕ_s246.00000°,δ45.00000°,λ123.00000°. Principal axes: T Plg67.0000°,Azm235.0000°; N Plg22.0000°,Azm41.0000°; P Plg5.0000°,Azm133.0000°

JMA	**V**	**11 22 21 57.4**	**34.99N**	**137.35E**	**40**	**2.9**		**¶600612079**

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s219.00000° ,δ75.00000°,λ-67.00000°. NP2:ϕ_s340.00000°,δ27.00000°,λ-146.00000°. Principal axes: T Plg27.0000°,Azm291.0000°; N Plg22.0000°,Azm33.0000°; P Plg54.0000°,Azm157.0000°

ISC	**V**	**17 10 41 11.7–.83**	**33.85N–.09**	**137.00E–.07**	**369–6**	**3.4b**	**34**	**1-82**
ISCJB	V	17 10 41 11.1–.53	33.84N–.08	137.02E–.07	374–4	3.3b		**¶17203815**
JMA	V	17 10 41 11.3–.50	33.82N	137.02E	375–5	2.9		
IDC	V	17 10 41 11.4–.95	33.79N	137.05E	367–8	3.8,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=8.7km az=161.6.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=16.5km s-min=16.3km az=76.0.

ISC	**V**	**18 05 01 25.9–.91**	**33.65N–.08**	**137.33E–.06**	**352**	**3.3b**	**42**	**0-70**
JMA	V	18 05 01 24.3–.10	33.60N	137.35E	373	3.0		**¶17203853**
ISCJB	V	18 05 01 26.3–.54	33.66N–.08	137.30E–.07	352	3.3b		
IDC	V	18 05 01 26.2–1.7	33.59N	137.31E	355–21	3.8,3.2		

ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.9km az=153.1.
IDC Error ellipse: s-maj=46.7km s-min=19.5km az=65.0.

ISC	**V**	**18 05 41 14.4–1.0**	**34.80N–.08**	**138.01E–.06**	**263–8**		**27**	**0-55**
ISCJB	V	18 05 41 13.6–.70	34.79N–.08	138.02E–.07	266–6	2.9b		**¶17203855**
IDC	V	18 05 41 14.2–1.0	34.70N	137.96E	254–16	3.5,3.0		
JMA	V	18 05 41 14.3–.30	34.82N	138.06E	264–3	3.3,3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=8.4km az=164.4.
IDC Error ellipse: s-maj=32.5km s-min=23.1km az=62.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**V**	**20 02 27 34.7–.91**	**33.83N–.09**	**137.14E–.10**	**364–7**	**3.5b**	**27**	**0-70**
ISCJB	V	20 02 27 34.1–.60	33.87N–.08	137.1E–.10	373–4	3.3b		**¶17204006**
IDC	V	20 02 27 34.2–.79	33.79N	137.27E	360–11	4.0,3.2		
JMA	V	20 02 27 35.1–.20	33.89N	136.98E	367–2	3.2,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=12.3km az=3.8.
IDC Error ellipse: s-maj=24.6km s-min=12.6km az=70.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.

ISC	**V**	**20 16 04 42.8–1.4**	**35.53N–.03**	**139.18E–.07**	**15–9**	**3.9b**	**25**	**0-69**
NIED	V	20 16 04 00	35.50N	139.10E	17	3.8W		**¶16531568**
IDC	V	20 16 04 42.1–.85	35.26N	138.56E	0	3.9,3.8		
ISCJB	V	20 16 04 43.8–.69	35.47N–.03	139.17E–.07	29–5	3.8b,3.8		
JMA	V	20 16 04 44.6	35.49N	139.13E	17–1	3.8,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s353.00000°,δ24.00000°,λ-150.00000°. NP2:ϕ_s235.00000°,δ78.00000°,λ-69.00000°. $M_0$5.25000×10^{14}
IDC Error ellipse: s-maj=34.5km s-min=10.9km az=77.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.6km az=167.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s76.00000°,δ70.00000°,λ74.00000°. NP2:ϕ_s295.00000°,δ25.00000°,λ126.00000°. Principal axes: T Plg62.0000°,Azm322.0000°; N Plg15.0000°,Azm82.0000°; P Plg23.0000° ,Azm178.0000°

ISC	**V**	**23 09 32 25.3–.80**	**35.90N–.04**	**139.67E–.07**	**90–6**	**4.0b**	**38**	**0-117**
NIED	V	23 09 32 00	35.90N	139.70E	92	3.9W		**¶17204292**
ISCJB	V	23 09 32 24.3–.43	35.88N–.04	139.65E–.07	96–3	3.9b		
IDC	V	23 09 32 25.5–1.1	35.84N	139.62E	94–10	4.0,3.8		
JMA	V	23 09 32 25.8–.20	35.91N	139.68E	85–2	3.6,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ29.00000°,λ70.00000°. NP2:ϕ_s9.00000°,δ63.00000°,λ101.00000°. $M_0$7.35000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.5km az=160.9.
IDC Error ellipse: s-maj=22.5km s-min=7.3km az=67.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s2.00000°,δ56.00000°,λ88.00000°. NP2: ϕ_s186.00000°,δ34.00000°,λ93.00000°. Principal axes: T Plg79.0000°,Azm264.0000° ; N Plg2.0000°,Azm4.0000°; P Plg11.0000°,Azm94.0000°

ISC	**V**	**27 13 51 25.1–.74**	**34.99N–.03**	**139.47E–.04**	**20–3**	**3.6b**	**30**	**0-59**
ISCJB	V	27 13 51 26.6–.48	35.00N–.03	139.48E–.04	32–3	3.6b		**¶17204572**
JMA	V	27 13 51 26.6	35.03N	139.46E	33–1	3.4		
IDC	V	27 13 51 29.1–1.8	34.91N	139.31E	52–18	3.7,3.6		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.0km az=161.8.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s14.00000°,δ76.00000°,λ36.00000°. NP2:ϕ_s274.00000°,δ56.00000°,λ163.00000°. Principal axes: T Plg35.0000°,Azm239.0000°; N Plg52.0000°,Azm33.0000°; P Plg13.0000° ,Azm140.0000°
IDC Error ellipse: s-maj=31.7km s-min=10.9km az=72.0.

ISC	**V**	**27 14 12 40.2–1.2**	**35.38N–.06**	**139.30E–.09**	**123–8**	**3.2b**	**22**	**0-59**
IDC	V	27 14 12 31.9–2.1	34.53N	138.51E	0	3.7,3.5		**¶17204573**
ISCJB	V	27 14 12 39.0–.74	35.38N–.05	139.3E–.10	130–5	3.2b,3.5		
JMA	V	27 14 12 40.4–.20	35.39N	139.30E	119–2	2.9,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=90.5km s-min=25.4km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=7.8km az=161.4.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**V**	**28 12 28 28.0–.81**	**35.88N–.04**	**139.93E–.05**	**72–6**	**4.1b**	**34**	**0-69**
NIED	V	28 12 28 00	35.90N	139.90E	62	3.7W		**¶17204627**
ISCJB	V	28 12 28 26.6–.47	35.87N–.03	139.94E–.06	76–3	4.0b		
IDC	V	28 12 28 27.3–2.9	35.84N	140.00E	67–21	4.0,3.8		
JMA	V	28 12 28 27.9–.10	35.92N	139.93E	66–2	3.7,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s349.00000°,δ60.00000°,λ154.00000°. NP2:ϕ_s93.00000°,δ68.00000°,λ33.00000°. $M_0$3.95000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.0km az=161.9.
IDC Error ellipse: s-maj=39.7km s-min=6.9km az=64.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s81.00000°,δ87.00000°,λ37.00000°. NP2: ϕ_s349.00000°,δ53.00000°,λ177.00000°. Principal axes: T Plg27.0000°,Azm311.0000° ; N Plg53.0000°,Azm84.0000°; P Plg23.0000°,Azm209.0000°

IDC	**V**	**29 18 18 15.4–1.4**	**34.29N**	**137.26E**	**275–29**	**3.2,2.8**		**¶17204714**

IDC Error ellipse: s-maj=51.1km s-min=21.4km az=50.0.

IDC	**V**	**30 00 29 07.9–3.8**	**33.88N**	**137.04E**	**332–106**	**3.3,2.9**		**¶17204732**

IDC Error ellipse: s-maj=225.6km s-min=30.2km az=60.0.

JMA	**VI**	**03 15 59 43.6**	**34.90N**	**137.97E**	**17**	**-0.2**		**¶600629906**
IDC	**VI**	**04 17 20 11.6–1.6**	**34.26N**	**138.13E**	**0**	**3.5,3.3**		**¶17205242**

IDC Error ellipse: s-maj=49.1km s-min=26.5km az=83.0.

IDC	**VI**	**04 19 44 14.6–1.1**	**34.00N**	**137.57E**	**0**	**3.4,3.4b**		**¶17205249**

IDC Error ellipse: s-maj=33.0km s-min=18.2km az=60.0.

ISC	**VI**	**05 21 12 56.8–.96**	**34.04N–.09**	**137.31E–.07**	**353–9**		**24**	**1-54**
JMA	VI	05 21 12 53.1–.10	33.80N	137.42E	380	3.1		**¶600632447**
ISCJB	VI	05 21 12 55.9–.76	33.94N–.09	137.39E–.08	354–8	2.7b		
IDC	VI	05 21 12 57.5–.84	34.14N	137.51E	363–18	3.2,2.6		

ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=10.4km az=162.7.
IDC Error ellipse: s-maj=49.3km s-min=12.4km az=63.0.

ISC	**VI**	**15 03 34 16.0–.84**	**34.49N–.07**	**137.08E–.06**	**348–7**	**2.9b**	**35**	**0-58**
ISCJB	VI	15 03 34 15.0–.53	34.46N–.07	137.14E–.06	353–4	2.9b		**¶17206152**
JMA	VI	15 03 34 15.1–.40	34.46N	137.12E	357–4	2.8		
IDC	VI	15 03 34 16.0–.96	34.38N	137.08E	345–13	3.6,2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.9km az=160.0.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=30.0km s-min=13.7km az=60.0.

ISC	**VI**	**17 01 45 32.9–.88**	**34.75N–.07**	**138.1E–.20**	**20**	**3.6b**	**10**	**2-75**
IDC	VI	17 01 45 30.9–1.1	34.80N	137.97E	0	3.8,3.6		**¶603814428**
ISCJB	VI	17 01 45 32.1–.94	34.73N–.07	137.9E–.20	20	3.5b,2.9s		

ISC Event type ke.
ISCJB Event type ke.

ISC	**VI**	**17 11 43 30.2–.69**	**34.03N–.06**	**138.40E–.05**	**264–5**	**3.6b**	**58**	**0-150**
ISCJB	VI	17 11 43 28.8–.39	33.99N–.04	138.45E–.05	268–2	3.5b		**¶17206385**
JMA	VI	17 11 43 28.4–.30	34.03N	138.54E	276–3	3.9		
IDC	VI	17 11 43 29.7–.89	33.94N	138.44E	261–9	4.0,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.1km az=156.2.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=9.7km az=73.0.

ISC	**VI**	**23 18 48 02.1–1.1**	**34.60N–.03**	**139.27E–.04**	**7–8**	**3.3b**	**23**	**0-52**
NIED	VI	23 18 48 00	34.60N	139.20E	5	3.8W		**¶16731318**
IDC	VI	23 18 48 00.5–1.2	34.57N	139.32E	0	3.9L,3.7		
ISCJB	VI	23 18 48 01.7–.59	34.59N–.03	139.25E–.06	12–4	3.2b,2.8s		
JMA	VI	23 18 48 02.1	34.62N	139.25E	10–1	3.6,2.8s		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ62.00000°,λ-17.00000°. NP2:ϕ_s289.00000°,δ75.00000°,λ-151.00000°. $M_0$5.41000×10^{14}
IDC Error ellipse: s-maj=28.9km s-min=16.3km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.7km az=162.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s1.00000°,δ71.00000°,λ-22.00000°. NP2:ϕ_s98.00000°,δ69.00000°,λ-159.00000°. Principal axes: T Plg1.0000°,Azm50.0000°; N Plg61.0000°,Azm142.0000°; P Plg29.0000° ,Azm319.0000°

JMA	**VI**	**24 13 36 13.4**	**34.68N**	**137.16E**	**32**	**2.9**		**¶600648423**

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s302.00000° ,δ77.00000°,λ151.00000°. NP2:ϕ_s39.00000°,δ62.00000°,λ15.00000°. Principal axes: T Plg30.0000°,Azm257.0000°; N Plg58.0000°,Azm99.0000°; P Plg10.0000°,Azm353.0000°

JMA	**VI**	**26 13 55 41.1**	**35.45N**	**139.04E**	**21–1**	**3.0**		**¶600649428**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ59.00000°,λ73.00000°. NP2:ϕ_s228.00000°,δ35.00000°,λ116.00000°. Principal axes: T Plg71.0000°,Azm248.0000°; N Plg15.0000°,Azm27.0000°; P Plg12.0000° ,Azm120.0000°

ISC	**VI**	**27 15 32 00.1–.94**	**34.30N–.05**	**139.71E–.06**	**122–7**	**3.6b**	**30**	**0-58**
ISCJB	VI	27 15 31 59.1–.55	34.30N–.04	139.72E–.06	128–4	3.6b		**¶17207083**
JMA	VI	27 15 32 00.5–.10	34.31N	139.73E	117–1	3.2		
IDC	VI	27 15 32 01.4–.62	34.07N	139.01E	116–23	3.6,3.5s		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.9km az=154.6.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=95.2km s-min=7.0km az=70.0.

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Southwestern Japan and Ryukyu Islands.

(231) South Korea.

ISC	**V**	**29 01 22 50.5–1.0**	**35.58N–.02**	**128.76E–.03**	**20–6**		**51**	**0-3**
NIED	V	29 01 22 00	35.70N	128.90E	8	3.6W		**¶600625607**
JMA	V	29 01 22 49.5–.40	35.69N	128.92E	16	3.6		
ISCJB	V	29 01 22 50.5–.30	35.60N–.02	128.73E–.03	19–4	3.6		
KMA	V	29 01 22 50.4–.08	35.59N	128.74E	18–0	3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ54.00000°,λ30.00000°. NP2:ϕ_s349.00000°,δ66.00000°,λ140.00000°. $M_0$2.98000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=4.6.
KMA Error ellipse: s-maj=1.2km s-min=0.8km az=124.0.

ISC	**VI**	**01 23 09 56.8–1.2**	**33.54N–.04**	**127.27E–.04**	**29–18**		**19**	**1-2**
JMA	VI	01 23 09 51.1–.30	33.55N	127.06E	0	3.1		**¶600628184**
KMA	VI	01 23 09 57.2–.67	33.63N	127.24E	0	3.1		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.8km az=-1.0.
KMA Error ellipse: s-maj=7.4km s-min=2.3km az=122.0.

ISC	**VI**	**09 06 13 37.4–1.9**	**35.95N–.04**	**129.64E–.07**	**12–14**		**15**	**0-2**
JMA	VI	09 06 13 35.9–.40	36.01N	129.62E	10	2.9		**¶600635537**
ISCJB	VI	09 06 13 37.9–1.3	35.93N–.05	129.68E–.07	12–10	2.9		
KMA	VI	09 06 13 37.4–.67	35.91N	129.71E	8–7	2.9		

ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.4km az=137.3.
KMA Error ellipse: s-maj=5.7km s-min=3.0km az=116.0.

ISC	**VI**	**15 05 21 47.8–1.4**	**33.65N–.04**	**127.87E–.04**	**15–14**		**24**	**1-2**
NIED	VI	15 05 21 00	33.70N	127.80E	5	3.7W		**¶600640797**
JMA	VI	15 05 21 47.0–.20	33.67N	127.82E	14	4.1		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ43.00000°,λ159.00000°. NP2:ϕ_s302.00000°,δ76.00000°,λ48.00000°. $M_0$4.20000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.

ISC	**VI**	**17 07 38 33.2–.97**	**37.99N–.03**	**124.86E–.03**	**7–6**	**3.9b,3.2s**	**37**	**0-65**
KMA	VI	17 07 38 32.6–.25	37.88N	124.79E	13–4	3.9b,3.2s		**¶17206371**
IDC	VI	17 07 38 33.5–1.2	37.76N	124.78E	0	3.9L,3.8		
BJI	VI	17 07 38 34.4	37.95N	124.63E	6	4.3b,4.3b		

ISC Event type ke.
KMA Error ellipse: s-maj=9.9km s-min=3.0km az=86.0.
IDC Error ellipse: s-maj=30.6km s-min=12.0km az=23.0.

(232) Western Honshu.

JMA	**I**	**03 03 22 53.2**	**35.09N**	**132.57E**	**11–1**	**0.9**	
							¶600515099
JMA	**I**	**09 08 26 03.1**	**35.67N**	**136.32E**	**11–1**	**2.7**	
							¶600517021
JMA	**I**	**28 03 51 59.2**	**35.36N**	**136.82E**	**41**	**3.0**	
							¶600522877

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s36.00000°,δ72.00000°,λ47.00000°. NP2:ϕ_s288.00000°,δ46.00000°,λ155.00000°. Principal axes: T Plg45.0000°,Azm262.0000°; N Plg41.0000°,Azm52.0000°; P Plg16.0000° ,Azm156.0000°

ISC	**II**	**23 21 17 09.4–.53**	**35.95N–.05**	**136.93E–.04**	**267–4**	**4.1b**	**106**	**1-94**
NIED	II	23 21 17 00	35.90N	137.00E	280	4.1W		**¶16168913**
MOS	II	23 21 17 07.9–.95	35.94N	136.93E	271	4.2b		
BJI	II	23 21 17 07.1	36.12N	137.09E	273	4.6b,4.2b		
ISCJB	II	23 21 17 08.7–.23	35.95N–.04	136.93E–.04	277–2	3.9b,4.2b		
JMA	II	23 21 17 09.2–.20	35.91N	136.97E	276–2	3.7,4.2b		
IDC	II	23 21 17 09.4–.46	35.87N	136.90E	271–5	4.4,3.8		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s358.00000°,δ55.00000°,λ-5.00000°. NP2:ϕ_s91.00000°,δ86.00000°,λ-145.00000°. $M_0$1.49000×10^{15}
MOS Error ellipse: s-maj=10.7km s-min=6.6km az=106.8.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=142.5.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s88.00000°,δ85.00000°,λ-151.00000°. NP2: ϕ_s355.00000°,δ61.00000°,λ-6.00000°. Principal axes: T Plg16.0000°,Azm218.0000° ; N Plg60.0000°,Azm98.0000°; P Plg24.0000°,Azm316.0000°
IDC Error ellipse: s-maj=12.2km s-min=8.0km az=66.0.

ISC	**III**	**07 21 46 05.2–.78**	**35.62N–.08**	**135.31E–.08**	**400**	**3.2b**	**30**	**0-68**
ISCJB	III	07 21 46 04.0–.39	35.62N–.07	135.39E–.07	400	3.2b		**¶600537686**
JMA	III	07 21 46 05.6–.20	35.69N	135.20E	377–2	3.2		
IDC	III	07 21 46 05.6–1.5	35.72N	135.25E	386–22	3.8,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=6.3km az=150.3.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=36.5km s-min=12.9km az=67.0.

JMA	**III**	**11 17 47 48.6**	**35.29N**	**136.50E**	**6–1**	**2.3**	
							¶603049451

JMA Event type fe.

JMA	**III**	**13 09 14 34.1**	**35.25N**	**136.48E**	**6–1**	**2.8**	
							¶603049708

JMA Event type fe.

JMA	**III**	**13 19 23 24.4**	**35.10N**	**136.15E**	**14–1**	**3.6**	
							¶602657174

JMA Event type fe.

IDC	**III**	**19 14 09 22.0–1.3**	**35.71N**	**135.46E**	**360–13**	**3.5,3.0**	
							¶17197252

IDC Error ellipse: s-maj=28.3km s-min=14.5km az=63.0.

JMA	**III**	**22 22 32 02.8**	**34.42N**	**132.41E**	**24**	**0.7**	
							¶602443824

ISC	**III**	**27 16 46 18.2–1.0**	**34.21N–.10**	**136.91E–.09**	**350**		**25**	**0-54**
IDC	III	27 16 46 17.9–1.3	34.18N	137.07E	342–22	3.5,2.8		**¶17198813**
ISCJB	III	27 16 46 17.5–.52	34.21N–.09	136.92E–.10	350	2.7b,2.8		
JMA	III	27 16 46 18.3–.20	34.21N	136.87E	344–2	2.7,2.8		

ISC Event type ke.
IDC Error ellipse: s-maj=44.1km s-min=21.9km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=10.3km az=154.3.
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.

JMA	**III**	**31 06 04 58.3**	**35.68N**	**136.89E**	**15**	**3.5**		
NIED	III	31 06 04 00	35.70N	136.90E	20	3.4W		**¶600573579**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s251.00000°,δ82.00000°,λ-160.00000°. NP2:ϕ_s158.00000°,δ70.00000°,λ-9.00000°. Principal axes: T Plg8.0000°,Azm23.0000°; N Plg68.0000°,Azm272.0000°; P Plg20.0000° ,Azm116.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ78.00000°,λ12.00000°. NP2:ϕ_s252.00000°,δ78.00000°,λ168.00000°. $M_0$1.45000×10^{14}

IDC	**IV**	**08 02 40 07.6–4.4**	**35.69N**	**134.79E**	**76–44**	**3.6,3.5**		
								¶603308250

IDC Error ellipse: s-maj=42.3km s-min=29.4km az=61.0.

JMA	**IV**	**12 23 48 19.9**	**34.95N**	**132.26E**	**6**	**1.2**	
							¶600586054

JMA	**IV**	**18 08 16 29.3**	**35.39N**	**136.29E**	**38**	**3.6**		
NIED	IV	18 08 16 00	35.40N	136.30E	32	3.4W		**¶600591429**

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s49.00000°,δ51.00000°,λ-56.00000°. NP2:ϕ_s182.00000°,δ50.00000°,λ-125.00000°. Principal axes: T Plg1.0000°,Azm116.0000°; N Plg26.0000°,Azm206.0000°; P Plg64.0000° ,Azm24.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s54.00000°,δ51.00000°,λ-43.00000°. NP2:ϕ_s175.00000°,δ58.00000°,λ-132.00000°. $M_0$1.58000×10^{14}

JMA	**IV**	**18 11 40 45.4**	**35.39N**	**136.29E**	**38**	**2.7**		
								¶600591570

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s54.00000° ,δ74.00000°,λ-43.00000°. NP2:ϕ_s158.00000°,δ49.00000°,λ-159.00000°. Principal axes: T Plg16.0000°,Azm112.0000°; N Plg44.0000°,Azm218.0000°; P Plg41.0000°,Azm7.0000°

JMA	**IV**	**19 07 48 49.3**	**34.00N**	**136.15E**	**16**	**1.2**	
							¶600592466

ISC	**IV**	**21 05 52 48.1–.97**	**35.8N–.10**	**135.4E–.10**	**350**		**15**	**0-55**
ISCJB	IV	21 05 52 48.3–.55	35.9N–.10	135.4E–.10	350	3.0b		**¶17201676**
IDC	IV	21 05 52 48.4–1.3	35.82N	135.48E	363–21	3.6,3.0		
JMA	IV	21 05 52 49.0–.10	35.83N	135.46E	347–1	2.4,3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=13.4km az=17.5.
IDC Error ellipse: s-maj=34.4km s-min=22.9km az=47.0.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**IV**	**22 21 17 38.8**	**35.43N**	**136.44E**	**7**	**2.5**	
							¶600596666

JMA	**IV**	**23 14 08 54.3**	**35.02N**	**135.46E**	**12**	**2.6**	
							¶600597320

JMA Event type fe.

JMA	**IV**	**24 14 56 57.8**	**34.86N**	**136.82E**	**40–1**	**3.1**	
							¶600598242

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s216.00000°,δ79.00000°,λ-11.00000°. NP2:ϕ_s308.00000°,δ79.00000°,λ-169.00000°. Principal axes: T Plg0.0000°,Azm262.0000°; N Plg75.0000°,Azm352.0000°; P Plg15.0000° ,Azm172.0000°

ISC	**IV**	**29 03 56 07.8–1.1**	**35.97N–.03**	**133.36E–.04**	**8–9**		**20**	**0-56**
NIED	IV	29 03 56 00	36.00N	133.30E	14	3.5W		**¶17202345**
ISCJB	IV	29 03 56 07.7–.65	35.99N–.03	133.31E–.04	15–9	3.4b		
JMA	IV	29 03 56 07.8	35.98N	133.33E	16	4.0		
IDC	IV	29 03 56 07.5–1.3	36.03N	133.20E	0	3.5,3.4b		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ76.00000°,λ170.00000°. NP2:ϕ_s338.00000°,δ80.00000°,λ15.00000°. $M_0$2.25000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.4km az=165.5.
JMA Event type fe.
IDC Error ellipse: s-maj=28.6km s-min=16.3km az=129.0.

JMA	**IV**	**29 04 00 55.8**	**35.98N**	**133.33E**	**17**	**3.9**		
NIED	IV	29 04 00 00	36.00N	133.30E	8	3.7W		**¶600602210**

JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s334.00000°,δ57.00000°,λ-3.00000°. NP2:ϕ_s65.00000°,δ88.00000°,λ-147.00000°. $M_0$3.40000×10^{14}

ISC	**IV**	**30 04 30 24.7–.63**	**35.54N–.07**	**135.72E–.05**	**349–5**	**3.3b**	**53**	**0-151**
NIED	IV	30 04 30 00	35.60N	135.70E	340	3.9W		**¶17202435**
ISCJB	IV	30 04 30 23.9–.33	35.56N–.06	135.72E–.06	354–3	3.2b		
JMA	IV	30 04 30 24.5–.20	35.56N	135.73E	350–2	3.6		
IDC	IV	30 04 30 24.9–.74	35.46N	135.74E	357–8	3.8,3.2		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ52.00000°,λ-154.00000°. NP2:ϕ_s83.00000°,δ70.00000°,λ-41.00000°. $M_0$7.63000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.1km az=156.9.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC Error ellipse: s-maj=12.9km s-min=10.2km az=56.0.

ISC	**V**	**03 20 16 53.0–.90**	**34.29N–.10**	**136.82E–.07**	**358–8**	**2.7b**	**25**	**0-58**
ISCJB	V	03 20 16 51.9–.61	34.21N–.09	136.88E–.08	361–6	2.7b		**¶17202712**
IDC	V	03 20 16 52.2–.87	34.16N	136.95E	348–16	3.4,2.8		
JMA	V	03 20 16 53.3–.40	34.33N	136.83E	355–4	2.2,2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=10.6km az=4.2.
IDC Error ellipse: s-maj=28.7km s-min=18.3km az=54.0.
JMA Error ellipse: s-maj=3.3km s-min=2.8km az=-1.0.

JMA	**V**	**08 05 00 17.2**	**35.48N**	**134.48E**	**5–1**	**0.5**		
								¶600609521

ISC	**V**	**12 08 03 11.2–.81**	**34.11N–.09**	**136.65E–.08**	**369–6**	**3.1b**	**35**	**0-70**
ISCJB	V	12 08 03 10.1–.51	34.07N–.08	136.69E–.09	376–3	3.1b		**¶17203467**
IDC	V	12 08 03 10.7–1.3	34.01N	136.74E	368–14	3.7,3.2		
JMA	V	12 08 03 11.2–.20	34.15N	136.63E	370–2	2.9,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=10.8km az=146.5.
IDC Error ellipse: s-maj=19.2km s-min=14.9km az=78.0.
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.

JMA	**V**	**16 05 36 48.4**	**35.34N**	**135.61E**	**10–1**	**2.7**		
								¶600615484

JMA	**V**	**26 14 18 22.5**	**35.10N**	**136.62E**	**12–1**	**2.7**		
								¶600623601

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s359.00000° ,δ54.00000°,λ119.00000°. NP2:ϕ_s136.00000°,δ45.00000°,λ56.00000°. Principal axes: T Plg66.0000°,Azm328.0000°; N Plg23.0000°,Azm161.0000°; P Plg5.0000°,Azm69.0000°

JMA	**VI**	**03 08 21 00.7**	**35.00N**	**135.59E**	**10–1**	**3.1**		
								¶600629514

JMA Event type fe.

ISC	**VI**	**03 16 57 32.6–.55**	**35.07N–.03**	**132.66E–.02**	**19–2**	**4.9b,4.3s**	**447**	**0-154**
NIED	VI	03 16 57 00	35.10N	132.70E	11	4.9W,4.3s		**¶16556052**
ISCJB	VI	03 16 57 30.4–.39	35.12N–.02	132.57E–.02	11–2	4.9b,4.3s		
BJI	VI	03 16 57 30.7	35.04N	132.96E	33	5.0s,4.9b		
JMA	VI	03 16 57 31.0	35.10N	132.67E	11–1	5.2,4.9b		
NEIC	VI	03 16 57 31.6–.24	35.03N	132.33E	10	5.1b,4.9b		
MOS	VI	03 16 57 31.6–2.0	35.00N	132.30E	33	5.1b,4.3s		
IDC	VI	03 16 57 34.4–3.1	35.02N	132.50E	33–23	4.5,4.5		
GCMT	VI	03 16 57 35.6–.20	35.12N	132.51E	15–1	5.0W,4.5		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s245.00000°,δ68.00000°,λ177.00000°. NP2:ϕ_s336.00000°,δ87.00000°,λ22.00000°. $M_0$2.60000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.4km az=168.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s259.00000°,δ79.00000°,λ149.00000°. NP2:ϕ_s355.00000°,δ60.00000°,λ12.00000°. Principal axes: T Plg29.0000°,Azm213.0000°; N Plg58.0000°,Azm61.0000°; P Plg13.0000° ,Azm310.0000°
NEIC Event type fe. Error ellipse: s-maj=6.2km s-min=4.7km az=161.0. Felt [III] at Matsue and [II] at Iwakuni. Felt in much of western Honshu and at Matsuyama, Shikoku. Recorded [4 JMA] in Hiroshima, Shimane and Tottori.
MOS Error ellipse: s-maj=6.0km s-min=4.1km az=106.4.
IDC Error ellipse: s-maj=12.6km s-min=11.8km az=75.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c38; s95,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.59±.10 $M_{\theta\theta}$2.96±.10; $M_{\phi\phi}$-2.37±.08; $M_{r\theta}$-1.44±.33; $M_{\theta\phi}$-1.67±.07; $M_{\phi r}$-0.56±.28; Best double couple: NP1:ϕ_s63.00000°,δ87.00000° ,λ-153.00000°. NP2:ϕ_s331.00000°,δ63.00000°,λ-4.00000°. Principal axes: T 3.7960,Plg16.0000°,Azm194.0000°; N -0.5850,Plg63.0000°,Azm69.0000° ; P -3.2130,Plg21.0000°,Azm290.0000° $M_0$3.50400×10^{16}

JMA	**VI**	**03 17 03 22.6**	**35.10N**	**132.67E**	**10–1**	**3.7**		
								¶600629966

JMA Event type fe.

JMA	**VI**	**06 11 28 23.3**	**35.19N**	**135.43E**	**14–1**	**1.0**		
								¶600633024

ISC	**VI**	**16 14 32 21.9–1.0**	**35.07N–.03**	**132.65E–.03**	**6–8**	**3.4b**	**23**	**0-58**
NIED	VI	16 14 32 00	35.10N	132.70E	8	3.8W		**¶603244148**
ISCJB	VI	16 14 32 20.9–.50	35.09N–.03	132.65E–.04	12–3	3.3b,3.0s		
IDC	VI	16 14 32 20.9–.98	35.04N	132.69E	0	3.6,3.4		
JMA	VI	16 14 32 21.1	35.10N	132.67E	9–1	3.9,3.4		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s251.00000°,δ78.00000°,λ-179.00000°. NP2:ϕ_s161.00000°,δ89.00000°,λ-12.00000°. $M_0$4.97000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.8km az=37.8.
IDC Error ellipse: s-maj=21.5km s-min=13.3km az=126.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s74.00000°,δ76.00000°,λ-161.00000°. NP2:ϕ_s339.00000°,δ72.00000°,λ-15.00000°. Principal axes: T Plg3.0000°,Azm206.0000°; N Plg67.0000°,Azm109.0000°; P Plg23.0000° ,Azm297.0000°

JMA	**VI**	**20 01 15 15.7**	**34.43N**	**136.37E**	**42**	**2.8**		
								¶600645123

JMA Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s105.00000° ,δ87.00000°,λ-146.00000°. NP2:ϕ_s13.00000°,δ56.00000°,λ-4.00000°. Principal axes: T Plg21.0000°,Azm234.0000°; N Plg55.0000°,Azm110.0000°; P Plg26.0000°,Azm335.0000°

JMA	**VI**	**23 22 47 16.1**	**35.14N**	**135.89E**	**11**	**2.8**		
								¶600648102

JMA Event type fe.

(233) Near south coast of western Honshu.

JMA	**I**	**03 04 19 32.5**	**34.94N**	**135.68E**	**15**	**3.4**			
									¶600515114

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s319.00000°,δ87.00000°,λ31.00000°. NP2:ϕ_s227.00000°,δ59.00000°,λ176.00000°. Principal axes: T Plg24.0000°,Azm188.0000°; N Plg59.0000°,Azm325.0000°; P Plg19.0000°,Azm89.0000°

ISC	**I**	**10 18 12 57.7–.95**	**34.03N–.03**	**135.27E–.03**	**11–7**	**3.3b**	**29**	**0-57**	
NIED	I	10 18 12 00	34.00N	135.30E	5	3.4W			**¶17189872**
IDC	I	10 18 12 56.1–1.1	33.99N	135.34E	0	3.4,3.4b			
ISCJB	I	10 18 12 57.3–.53	34.03N–.03	135.26E–.03	13–4	3.2b,3.4b			
JMA	I	10 18 12 57.9	34.04N	135.27E	6	3.5,3.4b			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ43.00000°,λ39.00000°. NP2:ϕ_s47.00000°,δ65.00000°,λ126.00000°. $M_0$1.67000×10^{14}

IDC Error ellipse: s-maj=21.5km s-min=16.1km az=145.0.

ISCJB Event type fe. Error ellipse: s-maj=4.6km s-min=4.4km az=153.9.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s160.00000°,δ65.00000°,λ31.00000°. NP2:ϕ_s56.00000°,δ62.00000°,λ152.00000°. Principal axes: T Plg39.0000°,Azm19.0000°; N Plg51.0000°,Azm195.0000°; P Plg2.0000°,Azm287.0000°

ISC	**I**	**16 11 33 24.7–.47**	**34.01N–.03**	**133.77E–.02**	**36–1**	**4.2b,3.4s**	**153**	**0-147**	
NIED	I	16 11 33 00	34.00N	133.80E	38	4.5W,3.4s			**¶15931187**
IDC	I	16 11 33 18.7–.66	33.94N	133.76E	0	4.1,4.0			
BJI	I	16 11 33 20.1	33.76N	134.16E	39	4.8b,4.5b			
MOS	I	16 11 33 22.2–.98	33.93N	133.77E	36	4.3b,4.5b			
NEIC	I	16 11 33 24.9–.50	33.94N	133.74E	41–4	4.6b,4.5b			
JMA	I	16 11 33 24.7	34.01N	133.78E	44	4.5,4.5b			
ISCJB	I	16 11 33 24.1–.26	34.05N–.03	133.76E–.02	43–2	4.3b,3.4s			

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s71.00000°,δ79.00000°,λ-10.00000°. NP2:ϕ_s163.00000°,δ80.00000°,λ-169.00000°. $M_0$7.38000×10^{15}

NEIC Event type fe. Felt at Kamojima, Niihama, Tokushima and Waki. Also felt at Kamogata, Kokubunji, Okayama and Tsuyama, Honshu. Recorded [3 JMA] in Ehime, Kagawa, Kochi and Tokushima, Shikoku. Also recorded [3 JMA] in Okayama, [2 JMA] in Hiroshima and [1 JMA] in Hyogo, Shimane, Tottori, Wakayama and Yamaguchi, Honshu.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s152.00000°,δ68.00000°,λ-142.00000°. NP2:ϕ_s45.00000°,δ55.00000°,λ-27.00000°. Principal axes: T Plg8.0000°,Azm276.0000°; N Plg47.0000°,Azm177.0000°; P Plg42.0000°,Azm13.0000°

ISCJB Event type fe.

ISC	**I**	**17 15 49 19.1–1.9**	**33.14N–.06**	**136.66E–.04**	**1–11**	**3.6b,3.4s**	**40**	**0-70**	
NIED	I	17 15 49 00	33.00N	136.70E	5	3.9W,3.4s			**¶17190415**
IDC	I	17 15 49 19.6–.89	33.01N	136.63E	0	3.8,3.7			
JMA	I	17 15 49 20.5–.10	33.04N	136.67E	48–2	3.8,3.7			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ76.00000°,λ-2.00000°. NP2:ϕ_s147.00000°,δ88.00000°,λ-166.00000°. $M_0$9.43000×10^{14}

IDC Error ellipse: s-maj=25.0km s-min=17.5km az=74.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

JMA	**I**	**19 00 48 09.2**	**34.01N**	**133.78E**	**44–1**	**3.6**			
									¶600520015

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s237.00000°,δ88.00000°,λ-2.00000°. NP2:ϕ_s327.00000°,δ88.00000°,λ-178.00000°. Principal axes: T Plg0.0000°,Azm282.0000°; N Plg87.0000°,Azm12.0000°; P Plg3.0000°,Azm192.0000°

ISC	**I**	**28 13 48 57.9–1.3**	**34.69N–.04**	**135.31E–.03**	**1–10**	**3.6b**	**30**	**0-69**	
NIED	I	28 13 48 00	34.70N	135.30E	5	3.6W			**¶15979649**
IDC	I	28 13 48 57.6–1.1	34.63N	135.35E	0	3.6,3.5b			
ISCJB	I	28 13 48 58.4–.42	34.72N–.03	135.26E–.03	10–3	3.5b,3.5b			
JMA	I	28 13 48 58.7	34.73N	135.27E	6–1	3.6,3.5b			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s188.00000°,δ31.00000°,λ97.00000°. NP2:ϕ_s360.00000°,δ59.00000°,λ86.00000°. $M_0$2.67000×10^{14}

IDC Error ellipse: s-maj=27.3km s-min=15.3km az=144.0.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=24.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s185.00000°,δ48.00000°,λ97.00000°. NP2:ϕ_s355.00000°,δ42.00000°,λ82.00000°. Principal axes: T Plg84.0000°,Azm149.0000°; N Plg5.0000°,Azm0.0000°; P Plg3.0000°,Azm270.0000°

ISC	**II**	**06 15 36 15.9–1.0**	**34.89N–.03**	**133.00E–.03**	**6–8**	**3.4b**	**22**	**0-58**	
NIED	II	06 15 36 00	34.90N	133.00E	5	3.6W			**¶17191799**
IDC	II	06 15 36 14.5–1.2	34.78N	133.10E	0	3.4,3.3b			
ISCJB	II	06 15 36 15.5–.51	34.91N–.04	133.00E–.04	10–3	3.2b,3.0s			
JMA	II	06 15 36 15.7	34.89N	133.03E	9	3.6,3.0s			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ59.00000°,λ10.00000°. NP2:ϕ_s211.00000°,δ81.00000°,λ149.00000°. $M_0$2.68000×10^{14}

IDC Error ellipse: s-maj=24.2km s-min=19.2km az=72.0.

ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.7km az=162.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s217.00000°,δ89.00000°,λ138.00000°. NP2:ϕ_s308.00000°,δ48.00000°,λ1.00000°. Principal axes: T Plg29.0000°,Azm164.0000°; N Plg48.0000°,Azm37.0000°; P Plg28.0000°,Azm271.0000°

ISC	**II**	**19 13 04 56.4–.98**	**33.47N–.05**	**135.45E–.04**	**29–6**	**3.8b**	**33**	**0-70**	
NIED	II	19 13 04 00	33.50N	135.50E	20	3.9W			**¶16033678**
IDC	II	19 13 04 52.2–.78	33.39N	135.47E	0	3.8,3.8b			
ISCJB	II	19 13 04 55.4–.61	33.43N–.05	135.49E–.04	37–6	3.7b,3.8b			
JMA	II	19 13 04 56.6	33.49N	135.47E	32	4.0,3.8b			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s177.00000°,δ42.00000°,λ-59.00000°. NP2:ϕ_s318.00000°,δ55.00000°,λ-115.00000°. $M_0$7.14000×10^{14}

IDC Error ellipse: s-maj=17.3km s-min=15.8km az=106.0.

ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.6km az=11.7.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s168.00000°,δ54.00000°,λ-76.00000°. NP2:ϕ_s325.00000°,δ38.00000°,λ-109.00000°. Principal axes: T Plg8.0000°,Azm248.0000°; N Plg12.0000°,Azm340.0000°; P Plg76.0000°,Azm125.0000°

ISC	**II**	**21 06 46 10.7–.35**	**33.86N–.03**	**135.34E–.02**	**56–3**	**4.9b,4.0s**	**415**	**0-116**	
NIED	II	21 06 46 00	33.90N	135.40E	56	4.8W,4.0s			**¶16033752**
BJI	II	21 06 46 03.8	33.63N	135.88E	51	4.9b,4.8b			
MOS	II	21 06 46 07.8–1.0	33.85N	135.26E	47	5.2b,4.8b			
IDC	II	21 06 46 08.7–1.2	33.84N	135.30E	42–11	4.5,4.4			
ISCJB	II	21 06 46 09.1–.23	33.85N–.02	135.33E–.02	55–1	4.8b,4.0s			
JMA	II	21 06 46 10.1	33.88N	135.36E	53–1	4.8,4.0s			
NEIC	II	21 06 46 10.4–.42	33.84N	135.32E	55–3	4.9b,4.0s			

ISC Event type fe.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s92.00000°,δ15.00000°,λ-149.00000°. NP2:ϕ_s331.00000°,δ82.00000°,λ-77.00000°. $M_0$2.03000×10^{16}

MOS Error ellipse: s-maj=7.0km s-min=5.0km az=91.5.

IDC Error ellipse: s-maj=10.3km s-min=7.6km az=0.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=159.9.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s301.00000°,δ81.00000°,λ-97.00000°. NP2:ϕ_s161.00000°,δ11.00000°,λ-50.00000°. Principal axes: T Plg36.0000°,Azm37.0000°; N Plg7.0000°,Azm302.0000°; P Plg53.0000°,Azm202.0000°

NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=147.0. Felt [II] at Hirakata and Kobe. Also felt at Gobo, Ikoma, Izumi, Izumi-Sano, Matsuzaka, Nagoya, Osaka, Sumoto and Yawata. Recorded [4 JMA] in Wakayama; [3 JMA] in Nara; [2 JMA] in Hyogo, Kyoto, Mie, Okayama, Osaka and Shiga; [1 JMA] in Aichi, Fukui, Gifu, Hiroshima, Shizuoka and Yamaguchi. Also recorded [2 JMA] in Kagawa, Kochi and Tokushima and [1 JMA] in Ehime, Shikoku.

ISC	**II**	**28 11 04 15.5–.65**	**33.09N–.07**	**136.24E–.06**	**431–6**	**3.8b**	**61**	**1-96**	
NIED	II	28 11 04 00	33.00N	136.30E	400	4.2W			**¶16168949**
ISCJB	II	28 11 04 14.4–.36	33.06N–.06	136.20E–.06	437–2	3.7b			
JMA	II	28 11 04 14.7–.30	33.03N	136.29E	432–3	3.8			
IDC	II	28 11 04 15.5–.89	33.02N	136.16E	433–10	4.2,3.6			

ISC Event type ke.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s237.00000°,δ75.00000°,λ-13.00000°. NP2:ϕ_s330.00000°,δ77.00000°,λ-165.00000°. $M_0$2.23000×10^{15}

ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.5km az=140.8.

JMA Error ellipse: s-maj=3.3km s-min=1.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s223.00000°,δ83.00000°,λ11.00000°. NP2: ϕ_s132.00000°,δ79.00000°,λ173.00000°. Principal axes: T Plg13.0000°,Azm88.0000°; N Plg77.0000°,Azm254.0000°; P Plg3.0000°,Azm357.0000°

IDC Error ellipse: s-maj=12.8km s-min=8.3km az=107.0.

JMA	**III**	**11 10 42 22.3**	**33.65N**	**135.58E**	**34**	**1.2**			
									¶603049350
ISC	**III**	**12 13 11 02.0–1.5**	**33.06N–.05**	**136.68E–.03**	**6–9**	**4.5b**	**119**	**1-117**	
NIED	III	12 13 11 00	33.00N	136.70E	5	4.7W			**¶16476973**
IDC	III	12 13 11 00.8–.49	32.97N	136.60E	0	4.4,4.3			
JMA	III	12 13 11 02.8–.10	33.02N	136.68E	51–2	4.3,4.3			
ISCJB	III	12 13 11 02.2–1.1	33.07N–.03	136.63E–.02	15–6	4.4b,4.3			
NEIC	III	12 13 11 02.7–.29	33.01N	136.62E	10	4.4b,4.3			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s0.00000°,δ44.00000°,λ-151.00000°. NP2:ϕ_s248.00000°,δ70.00000°,λ-50.00000°. $M_0$1.20000×10^{16}

IDC Error ellipse: s-maj=12.7km s-min=12.0km az=33.0.

JMA Event type fe. Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.

ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.4km az=173.2.

NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.4km az=184.0.

JMA	**III**	**12 15 05 27.5**	**34.22N**	**135.26E**	**5–1**	**0.0**			
									¶603049621
JMA	**III**	**12 17 57 46.8**	**33.80N**	**135.06E**	**39–1**	**0.3**			
									¶603310076
JMA	**III**	**13 04 41 40.3**	**34.22N**	**135.08E**	**7–1**	**0.8**			
									¶17194721
JMA	**III**	**14 15 47 45.7**	**34.82N**	**135.56E**	**10**	**0.4**			
									¶603049770
IDC	**III**	**22 12 36 38.8–1.2**	**33.88N**	**136.91E**	**0**	**3.9,3.8b**			
									¶17198005

IDC Error ellipse: s-maj=45.4km s-min=20.5km az=78.0.

IDC	**IV**	**04 17 54 15.4–1.6**	**33.93N**	**135.92E**	**0**	**3.7,3.6**			
									¶17199797

IDC Error ellipse: s-maj=52.0km s-min=23.9km az=112.0.

ISC	**IV**	**06 10 26 15.3–.94**	**34.56N–.09**	**135.82E–.07**	**374–8**			**27**	**0-54**
ISCJB	IV	06 10 26 14.6–.69	34.54N–.09	135.82E–.08	379–5	2.9b			**¶17199993**
JMA	IV	06 10 26 15.6–.10	34.58N	135.82E	372–1	2.8			
IDC	IV	06 10 26 15.2–.84	34.51N	135.93E	375–14	3.7,3.0			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=10.6km az=167.2.

JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.

IDC Error ellipse: s-maj=22.8km s-min=16.8km az=54.0.

JMA	**IV**	**10 00 08 23.0**	**34.18N**	**135.12E**	**6–1**	**0.1**			
									¶602945416
JMA	**IV**	**20 15 29 07.5**	**34.42N**	**134.83E**	**16–1**	**3.5**			
									¶600594038

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s223.00000°,δ80.00000°,λ-169.00000°. NP2:ϕ_s131.00000°,δ79.00000°,λ-10.00000°. Principal axes: T Plg1.0000°,Azm357.0000°; N Plg75.0000°,Azm263.0000°; P Plg15.0000°,Azm87.0000°

JMA	**V**	**10 14 01 47.3**	**34.20N**	**135.19E**	**5–1**	**1.9**			
									¶602919053
ISC	**V**	**10 14 01 54.0–1.1**	**34.20N–.03**	**135.20E–.03**	**7–7**	**4.1b**	**63**	**0-96**	
NIED	V	10 14 01 00	34.20N	135.20E	5	4.0W			**¶16503279**
IDC	V	10 14 01 52.5–.69	34.16N	135.23E	0	4.1,3.9			
ISCJB	V	10 14 01 53.2–.51	34.20N–.03	135.20E–.03	11–3	4.0b,3.9			
JMA	V	10 14 01 53.4	34.20N	135.19E	5–1	4.2,3.9			
NEIC	V	10 14 01 56.0–1.4	34.11N	135.22E	23–10	4.2b,3.9			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ47.00000°,λ47.00000°. NP2:ϕ_s231.00000°,δ57.00000°,λ127.00000°. $M_0$1.06000×10^{15}

IDC Error ellipse: s-maj=16.7km s-min=13.8km az=150.0.

ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.5km az=25.3.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s1.00000°,δ61.00000°,λ55.00000°. NP2:ϕ_s236.00000°,δ45.00000°,λ136.00000°. Principal axes: T Plg58.0000°,Azm220.0000°; N Plg30.0000°,Azm20.0000°; P Plg9.0000°,Azm115.0000°

NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=4.5km az=173.0. Recorded [4 JMA] in Wakayama.

JMA	**V**	**11 17 46 20.3**	**34.20N**	**135.18E**	**6–1**	**3.5**			
									¶16506397

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s343.00000°,δ56.00000°,λ50.00000°. NP2:ϕ_s219.00000°,δ50.00000°,λ133.00000°. Principal axes: T Plg58.0000°,Azm195.0000°; N Plg32.0000°,Azm8.0000°; P Plg3.0000°,Azm100.0000°

ISC	**VI**	**09 22 17 35.5–1.3**	**34.9N–.20**	**135.5E–.10**	**150**	**3.3b**	**7**	**3-55**	
ISCJB	VI	09 22 17 33.5–1.2	34.8N–.20	135.6E–.10	150	3.2b			**¶17205667**
IDC	VI	09 22 17 35.2–7.1	34.93N	135.65E	152–96	3.3,3.0			
JMA	VI	09 22 17 42.8–.20	35.62N	137.17E	268–2	2.0,3.0			

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=26.1km s-min=10.6km az=148.9.

IDC Error ellipse: s-maj=101.8km s-min=25.4km az=60.0.

JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.

ISC	**VI**	**10 22 12 34.3–.98**	**34.8N–.10**	**135.83E–.10**	**350**	**3.1b**	**18**	**1-54**	
IDC	VI	10 22 12 33.7–1.6	34.64N	135.79E	361–21	3.6,3.0			**¶17205736**
JMA	VI	10 22 12 34.9–.10	34.84N	135.82E	362–1	2.9,3.0			

ISC Event type ke.

IDC Error ellipse: s-maj=28.1km s-min=18.1km az=75.0.

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

ISC	**VI**	**17 10 33 20.7–.97**	**33.83N–.04**	**135.33E–.03**	**49–7**			**35**	**0-53**
ISCJB	VI	17 10 33 19.5–.48	33.82N–.04	135.34E–.03	57–5	3.3b			**¶17206381**
JMA	VI	17 10 33 20.9	33.86N	135.37E	51–1	3.4			
IDC	VI	17 10 33 20.8–1.9	33.75N	135.36E	46–27	3.6,3.6			

ISC Event type ke.

ISCJB Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=175.4.

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s176.00000°,δ67.00000°,λ-48.00000°. NP2:ϕ_s289.00000°,δ47.00000°,λ-148.00000°. Principal axes: T Plg12.0000°,Azm237.0000°; N Plg39.0000°,Azm337.0000°; P Plg49.0000°,Azm133.0000°

IDC Error ellipse: s-maj=32.7km s-min=22.7km az=14.0.

JMA	**VI**	**29 20 25 39.0**	**34.08N**	**135.33E**	**8**	**0.6**			
									¶600652668

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ISC	**I**	**25 05 39 30.3–1.4**	**28.5N–.10**	**127.5E–.10**	**181–20**	**3.4b**	**25**	**1-77**	
IDC	I	25 05 38 56.0–1.4	26.79N	128.04E	0	3.9,3.7			**¶17190945**
ISCJB	I	25 05 39 28.7–.62	28.45N–.10	127.6E–.10	202–12	3.2b,3.7			
JMA	I	25 05 39 30.7–.20	28.52N	127.51E	176–4	4.3,3.7			

ISC Event type ke.

IDC Error ellipse: s-maj=44.1km s-min=30.2km az=62.0.

ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=7.2km az=40.6.

JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.

ISC	**I**	**30 01 34 53.8–1.6**	**27.05N–.06**	**126.79E–.05**	**11–11**	**4.0b**	**34**	**1-68**	
NIED	I	30 01 34 00	27.00N	126.70E	38	4.3W			**¶16136157**
JMA	I	30 01 34 53.8–.30	27.02N	126.73E	15–3	3.8			
NEIC	I	30 01 34 54.0–.40	27.06N	126.81E	10	4.1b			
IDC	I	30 01 34 53.4–2.6	26.90N	126.51E	0	4.0,3.9b			
ISCJB	I	30 01 34 54.0–1.0	27.04N–.05	126.73E–.04	21–9	3.9b,3.2s			

ISC Event type se.

NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s178.00000°,δ44.00000°,λ147.00000°. NP2:ϕ_s293.00000°,δ68.00000°,λ51.00000°. $M_0$2.96000×10^{15}

NEIC Event type se.

ISCJB Event type se.

ISC	**II**	**07 04 51 35.8–1.7**	**27.04N–.06**	**126.79E–.06**	**6–11**	**3.6b,3.0s**	**23**	**1-78**	
IDC	II	07 04 51 35.0–.84	27.04N	126.81E	0	3.8,3.7b			**¶17191847**
ISCJB	II	07 04 51 36.4–1.3	27.00N–.06	126.70E–.06	20–10	3.6b,3.2s			
JMA	II	07 04 51 36.0–.30	27.03N	126.72E	14–3	3.4,3.2s			

ISC Event type ke.

IDC Error ellipse: s-maj=26.8km s-min=15.2km az=42.0.

ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=8.1km az=159.4.

JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC III 21 16 49 49.9–.81 27.04N–.08 126.80E–.06 142–8 3.7b 48 1-78
ISCJB III 21 16 49 48.5–.43 27.11N–.09 126.72E–.08 134–9 3.6b **¶17197703**
IDC III 21 16 49 48.8–3.7 26.69N 126.80E 143–17 4.2s,4.1
JMA III 21 16 49 50.8–.30 27.14N 126.78E 127–4 3.6,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=3.6km az=141.9.
IDC Error ellipse: s-maj=105.4km s-min=26.6km az=6.0.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
JMA V 07 22 31 35.0–.20 28.16N 127.71E 136–4 3.1
¶16560930
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
ISC V 08 06 38 49.4–.91 31.41N–.03 128.86E–.05 10 3.5b 22 1-74
NIED V 08 06 38 00 31.40N 128.80E 5 3.7W **¶600609570**
JMA V 08 06 38 47.3–.10 31.42N 128.78E 0 3.5
ISCJB V 08 06 38 49.3–.71 31.44N–.04 128.77E–.05 10 3.5b
IDC V 08 06 38 49.9–1.3 31.45N 128.44E 0 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s272.00000°,δ50.00000°,λ-32.00000°. NP2:ϕ_s24.00000°,δ66.00000°,λ-136.00000°. $M_0$3.91000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.9km az=149.1.
IDC Error ellipse: s-maj=33.9km s-min=20.6km az=96.0.
ISC VI 18 05 57 52.9–.83 27.36N–.08 126.62E–.06 190–9 3.7b 46 1-78
IDC VI 18 05 57 20.0–3.9 25.27N 126.67E 0 4.0,3.9 **¶600643352**
ISCJB VI 18 05 57 52.1–.42 27.28N–.07 126.67E–.06 194–7 3.5b,3.9
JMA VI 18 05 57 55.1–.40 27.54N 126.62E 159 3.9,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=82.5km s-min=46.2km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=4.1km az=142.9.
JMA Error ellipse: s-maj=3.3km s-min=3.9km az=-1.0.
ISC VI 23 23 40 18.6–3.3 30.84N–.05 128.44E–.06 4–22 3.7b,3.5s 25 1-75
NIED VI 23 23 40 00 30.90N 128.40E 5 4.2W,3.5s **¶17206839**
JMA VI 23 23 40 16.6–.20 30.92N 128.37E 0 4.2,3.5s
ISCJB VI 23 23 40 17.1–2.1 30.88N–.05 128.38E–.05 4–15 3.7b,3.5s
IDC VI 23 23 40 18.4–.97 30.71N 128.05E 0 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ40.00000°,λ-13.00000°. NP2:ϕ_s205.00000°,δ82.00000°,λ-129.00000°. $M_0$2.48000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.2km az=32.5.
IDC Error ellipse: s-maj=25.6km s-min=17.8km az=89.0.
JMA VI 24 00 21 45.2–.20 30.88N 128.38E 0 3.5
NIED VI 24 00 21 00 30.90N 128.40E 5 3.8W **¶600648129**
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s37.00000°,δ48.00000°,λ-122.00000°. NP2:ϕ_s259.00000°,δ51.00000°,λ-60.00000°. $M_0$5.67000×10^{14}

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ISC I 02 23 22 30.1–1.0 33.70N–.04 130.42E–.04 16 13 0-23
IDC I 02 23 22 29.3–1.6 33.80N 130.81E 0 2.8,2.8 **¶17189266**
ISCJB I 02 23 22 30.5–.65 33.63N–.04 130.44E–.05 16 2.7b,2.8
JMA I 02 23 22 30.0 33.67N 130.42E 13 3.8,2.8
ISC Event type ke.
IDC Error ellipse: s-maj=33.9km s-min=9.0km az=76.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=5.5km az=137.9.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s295.00000°,δ76.00000°,λ-17.00000°. NP2:ϕ_s30.00000°,δ73.00000°,λ-165.00000°. Principal axes: T Plg2.0000°,Azm343.0000°; N Plg68.0000°,Azm78.0000°; P Plg22.0000° ,Azm252.0000°
ISC I 05 07 27 37.3–.64 31.27N–.05 130.35E–.08 164–5 3.7b 43 0-114
ISCJB I 05 07 27 36.5–.34 31.28N–.04 130.36E–.09 169–2 3.6b **¶16021253**
JMA I 05 07 27 38.1–.10 31.29N 130.36E 162–1 3.8
IDC I 05 07 27 38.1–1.1 31.32N 130.34E 171–9 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.0km az=5.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=16.7km s-min=11.8km az=70.0.
ISC I 07 09 05 37.4–.95 32.55N–.05 130.60E–.06 17–7 3.5b 17 0-68
NIED I 07 09 05 00 32.60N 130.60E 11 3.8W **¶15908758**
IDC I 07 09 05 34.6–1.2 32.49N 130.51E 0 3.6,3.5
ISCJB I 07 09 05 37.0–.49 32.57N–.04 130.63E–.06 26–4 3.5b,3.0s
JMA I 07 09 05 37.8 32.57N 130.61E 16–1 3.9,3.0s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ53.00000°,λ-159.00000°. NP2:ϕ_s114.00000°,δ74.00000°,λ-39.00000°. $M_0$6.14000×10^{14}
IDC Error ellipse: s-maj=23.9km s-min=10.8km az=116.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=5.9km az=167.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s121.00000°,δ88.00000°,λ-27.00000°. NP2:ϕ_s212.00000°,δ63.00000°,λ-178.00000°. Principal axes: T Plg17.0000°,Azm169.0000°; N Plg63.0000°,Azm297.0000°; P Plg20.0000° ,Azm73.0000°
JMA I 09 21 31 20.3–.10 31.79N 129.20E 11–2 3.8
NIED I 09 21 31 00 31.80N 129.20E 8 3.8W **¶600517213**
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s133.00000°,δ53.00000°,λ-8.00000°. NP2:ϕ_s228.00000°,δ84.00000°,λ-143.00000°. $M_0$5.67000×10^{14}
JMA I 20 11 05 11.4–.10 30.35N 131.46E 55–1 3.6
NIED I 20 11 05 00 30.30N 131.50E 41 3.7W **¶600520432**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ19.00000°,λ87.00000°. NP2:ϕ_s23.00000°,δ71.00000°,λ91.00000°. $M_0$4.68000×10^{14}
ISC II 04 09 11 24.3–.40 31.06N–.03 131.49E–.03 33–1 4.7b,4.4s 306 0-124
NIED II 04 09 11 00 31.10N 131.50E 32 4.9W,4.4s **¶16003935**
BJI II 04 09 11 20.6 30.83N 131.78E 42 4.9b,4.6s
MOS II 04 09 11 23.7–1.0 31.10N 131.36E 44 5.0b,4.3s
IDC II 04 09 11 24.6–1.9 31.13N 131.39E 35–14 4.4,4.3
JMA II 04 09 11 24.4–.10 31.08N 131.52E 31–1 4.7,4.3
ISCJB II 04 09 11 24.2–.33 31.08N–.02 131.50E–.03 48–2 4.7b,4.3s
NEIC II 04 09 11 25.9–.47 31.07N 131.39E 48–4 4.9b,4.3s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ20.00000°,λ85.00000°. NP2:ϕ_s24.00000°,δ70.00000°,λ92.00000°. $M_0$2.13000×10^{16}
MOS Error ellipse: s-maj=8.3km s-min=5.0km az=103.9.
IDC Error ellipse: s-maj=13.8km s-min=9.5km az=85.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.9km az=40.2.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=4.2km az=127.0. Felt at Kagoshima. Recorded [3 JMA] in Kagoshima, [2 JMA] in Miyazaki and [1 JMA] in Kumamoto.
ISC II 06 19 40 32.2–.32 31.22N–.03 130.41E–.03 148–2 4.7b 634 0-157
NIED II 06 19 40 00 31.20N 130.40E 125 4.8W **¶16007786**
BJI II 06 19 40 29.6 30.98N 130.53E 153 4.9b,4.6b
ISCJB II 06 19 40 30.9–.19 31.21N–.02 130.39E–.02 145–1 4.6b,4.6b
MOS II 06 19 40 31.3–1.1 31.19N 130.36E 151 4.7b,4.6b
IDC II 06 19 40 32.3–.45 31.27N 130.39E 147–3 4.7,4.3
JMA II 06 19 40 32.7–.10 31.21N 130.41E 137–1 4.4,4.3
NEIC II 06 19 40 32.3–.15 31.20N 130.28E 150 4.7b,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ17.00000°,λ-178.00000°. NP2:ϕ_s166.00000°,δ89.00000°,λ-73.00000°. $M_0$1.58000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=145.1.
MOS Error ellipse: s-maj=7.1km s-min=4.7km az=97.7.
IDC Error ellipse: s-maj=8.2km s-min=6.5km az=95.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=136.0. Felt at Kanoya. Recorded [3 JMA] in Kagoshima and [1 JMA] in Kumamoto, Miyazaki, Oita and on Tanega-shima. Also recorded [1 JMA] on Ehime, Kochi, Tokushima and on Shodo-shima, Shikoku.
ISC II 12 22 23 32.9–1.8 30.09N–.05 131.25E–.09 32–10 3.1b 24 1-71
ISCJB II 12 22 23 31.7–1.3 30.05N–.04 131.34E–.07 29–6 3.3b **¶600528539**
JMA II 12 22 23 31.7–.20 30.03N 131.34E 28–2 3.2
IDC II 12 22 24 01.3–1.6 33.30N 130.86E 124–46 3.4,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.9km az=23.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=153.8km s-min=16.0km az=176.0.
ISC II 28 00 04 34.4–.65 32.11N–.04 131.85E–.04 42–5 4.4b,4.3s 142 0-114
NIED II 28 00 04 00 32.10N 131.90E 35 4.9W,4.3s **¶16160600**
MOS II 28 00 04 31.9–1.5 32.12N 131.63E 36 4.7b,4.2s
ISCJB II 28 00 04 33.4–.39 32.12N–.03 131.84E–.03 49–3 4.3b,4.3s
JMA II 28 00 04 33.9–.10 32.12N 131.85E 34–1 4.6,4.3s
NEIC II 28 00 04 34.4–.72 32.09N 131.67E 41–6 4.7b,4.3s
IDC II 28 00 04 37.2–1.2 32.09N 131.55E 70–9 4.3,4.2s
BJI II 28 00 04 37.0 32.78N 131.78E 55 4.8b,4.5s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s347.00000°,δ22.00000°,λ-118.00000°. NP2:ϕ_s197.00000°,δ71.00000°,λ-79.00000°. $M_0$2.87000×10^{16}
MOS Error ellipse: s-maj=11.0km s-min=6.4km az=106.3.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.0km az=153.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s214.00000°,δ75.00000°,λ-73.00000°. NP2: ϕ_s344.00000°,δ23.00000°,λ-137.00000°. Principal axes: T Plg28.0000°,Azm290.0000° ; N Plg16.0000°,Azm29.0000°; P Plg57.0000°,Azm146.0000°
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=6.2km az=160.0. Recorded [3 JMA] in Miyazaki; [2 JMA] in Kumamoto and Oita; [1 JMA] in Kagoshima and Nagasaki. Also recorded [1 JMA] in Ehime and Kochi, Shikoku.
IDC Error ellipse: s-maj=16.7km s-min=11.0km az=81.0.
JMA II 28 19 17 29.6–.10 32.11N 131.85E 35–1 3.5
NIED II 28 19 17 00 32.10N 131.90E 38 3.7W **¶600535198**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s357.00000°,δ16.00000°,λ-108.00000°. NP2:ϕ_s196.00000°,δ75.00000°,λ-85.00000°. $M_0$4.58000×10^{14}
ISC III 01 01 12 37.8–1.2 33.45N–.05 131.67E–.04 92–8 28 0-24
JMA III 01 01 12 37.4 33.48N 131.67E 95–1 3.0 **¶17193029**
ISCJB III 01 01 12 37.1–.72 33.47N–.05 131.69E–.05 97–5 3.0b
IDC III 01 01 12 37.8–1.9 33.41N 131.50E 95–18 3.4,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.1km az=156.5.
IDC Error ellipse: s-maj=41.9km s-min=27.3km az=174.0.
JMA III 12 13 50 47.7–.10 31.26N 129.96E 14–4 0.6
¶603049613
JMA III 13 12 16 56.2 33.40N 130.76E 13 0.4
¶602657526
JMA III 14 13 38 07.3 33.13N 131.20E 7–1 0.1
¶602659744
JMA III 16 13 40 35.5 32.76N 130.74E 15 0.6
¶602707135
JMA III 23 11 16 46.9 33.37N 130.87E 11 3.5
NIED III 23 11 16 00 33.40N 130.90E 8 3.5W **¶16354008**
JMA Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s300.00000°,δ48.00000°,λ-60.00000°. NP2:ϕ_s79.00000°,δ50.00000°,λ-119.00000°. $M_0$2.08000×10^{14}
JMA IV 07 14 58 54.6–.10 30.54N 131.24E 29–1 3.2
¶600580008
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 09 12 57 50.1–.33 30.02N–.02 131.85E–.02 26–2 6.0b,5.7s 1902 1-174
NIED IV 09 12 57 00 30.00N 131.80E 20 5.8W,5.7s **¶16415851**
ISCJB IV 09 12 57 46.3–.50 30.00N–.01 131.81E–.01 10–3 6.0b,5.7s
NEIC IV 09 12 57 47.8–.07 30.00N 131.78E 11 6.1b,6.0
BJI IV 09 12 57 47.0 29.90N 131.77E 24 6.0,6.0s
GCMT IV 09 12 57 48.8–.10 30.04N 131.84E 12–0 6.0W,6.0s
MOS IV 09 12 57 49.6–1.0 30.06N 131.81E 33 6.2b,5.8s
JMA IV 09 12 57 49.4–.10 30.02N 131.84E 62–3 5.8,5.8s
NEIC IV 09 12 57 49.0–.00 30.01N 132.01E 21 5.8,5.8s
IDC IV 09 12 57 51.5–.46 30.05N 131.83E 34–3 5.7,5.6
NEIC IV 09 12 58 06.6–.00 30.04N 131.89E 10 5.7,5.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ47.00000°,λ-121.00000°. NP2:ϕ_s210.00000°,δ51.00000°,λ-61.00000°. $M_0$5.88000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.7km az=135.1.
NEIC Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=119.0. Felt at Kagoshima and Makurazaki, Kyushu. Also felt at P'yongt'aek, South Korea. Recorded [3 JMA] in Kagoshima. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s18.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s198.00000°,δ70.00000°,λ-90.00000°. Principal axes: T Plg25.0000°,Azm288.0000°; N Plg0.0000°,Azm0.0000°; P Plg65.0000° ,Azm108.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c263; s128,c462;Duration: 2s4 Moment tensor: Scale 10^{18} Nm; M_{rr}-1.04±.01 $M_{\theta\theta}$-0.05±.01; $M_{\phi\phi}$1.09±.01; $M_{r\theta}$0.25±.02; $M_{\theta\phi}$0.18±.01; $M_{\phi r}$0.35±.02; Best double couple: NP1:ϕ_s199.00000°,δ56.00000°,λ-78.00000°. NP2:ϕ_s358.00000° ,δ36.00000°,λ-107.00000°. Principal axes: T 1.1860,Plg10.0000°,Azm280.0000° ; N -0.0470,Plg10.0000°,Azm12.0000°; P -1.1420,Plg76.0000°,Azm146.0000° $M_0$1.16400×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=3.6km az=108.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}-9.33 $M_{\theta\theta}$-0.30 $M_{\phi\phi}$9.63 $M_{r\theta}$-1.10 $M_{\theta\phi}$1.46 $M_{\phi r}$-0.36 Best double couple: NP1:ϕ_s15.00000° ,δ47.00000°,λ-80.00000°. NP2:ϕ_s182.00000°,δ44.00000°,λ-99.00000°. Principal axes: T 9.8600,Plg1.0000°,Azm98.0000°; N -0.3900,Plg6.0000°,Azm188.0000° ; P -9.4700,Plg83.0000°,Azm355.0000° $M_0$9.70000×10^{17}
IDC Error ellipse: s-maj=9.4km s-min=6.3km az=76.0.
NEIC Event type se. Moment Tensor Solution. s45 Moment tensor: Scale 10^{18}Nm; M_{rr}-1.09 $M_{\theta\theta}$0.07 $M_{\phi\phi}$1.02 $M_{r\theta}$0.18 $M_{\theta\phi}$0.19 $M_{\phi r}$-0.52 Best double couple: NP1:ϕ_s203.00000° ,δ34.00000°,λ-70.00000°. NP2:ϕ_s359.00000°,δ58.00000°,λ-103.00000°. Principal axes: T 1.1600,Plg12.0000°,Azm98.0000°; N 0.0900,Plg11.0000°,Azm6.0000° ; P -1.2500,Plg73.0000°,Azm234.0000° $M_0$1.20000×10^{18}
IDC IV 11 23 22 11.2–999 30.33N 131.21E 0
¶17200701
IDC Error ellipse: s-maj=410.8km s-min=166.1km az=40.2.
JMA IV 12 04 30 44.2–.20 30.01N 131.97E 38 2.5
¶600584736
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
JMA IV 12 22 19 25.5 32.45N 130.79E 10–1 0.5
¶600585976
JMA IV 14 18 15 20.0 33.03N 130.74E 12 1.2
¶600587859
ISC IV 15 17 30 21.2–2.1 30.28N–.06 131.53E–.09 24–14 3.2b 24 1-59
IDC IV 15 17 30 17.8–1.4 30.38N 132.05E 0 3.3,3.1 **¶17201152**
ISCJB IV 15 17 30 20.9–1.1 30.28N–.05 131.60E–.08 38–14 3.1b,3.1
JMA IV 15 17 30 20.6–.10 30.26N 131.58E 48–2 2.9,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=27.0km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.9km az=17.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 15 23 15 05.8–.30 30.00N 131.86E 59 2.5
¶600589347
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
JMA IV 18 04 07 28.7 32.77N 131.32E 13–1 3.6
¶600591253
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s41.00000°,δ73.00000°,λ-160.00000°. NP2:ϕ_s305.00000°,δ70.00000°,λ-18.00000°. Principal axes: T Plg2.0000°,Azm173.0000°; N Plg64.0000°,Azm79.0000°; P Plg26.0000° ,Azm264.0000°
JMA IV 21 18 44 40.2 33.03N 130.74E 12–1 3.8
NIED IV 21 18 44 00 33.00N 130.70E 11 3.7W **¶16451672**
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s60.00000°,δ76.00000°,λ-163.00000°. NP2:ϕ_s325.00000°,δ73.00000°,λ-15.00000°. Principal axes: T Plg2.0000°,Azm192.0000°; N Plg68.0000°,Azm97.0000°; P Plg22.0000° ,Azm283.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s236.00000°,δ67.00000°,λ-167.00000°. NP2:ϕ_s141.00000°,δ78.00000°,λ-23.00000°. $M_0$3.52000×10^{14}
JMA IV 22 21 33 04.8 33.03N 130.73E 12–1 3.1

¶600596679

JMA Event type fe.
JMA IV 23 11 51 51.3 32.88N 130.91E 11–1 3.5
¶16456656

JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s83.00000°,δ62.00000°,λ-118.00000°. NP2:ϕ_s312.00000°,δ38.00000°,λ-49.00000°. Principal axes: T Plg13.0000°,Azm193.0000°; N Plg24.0000°,Azm97.0000°; P Plg62.0000° ,Azm309.0000°

ISC IV 24 17 48 22.5–.88 33.01N–.04 130.70E–.05 11–6 3.2b 19 0-72
NIED IV 24 17 48 00 33.00N 130.70E 8 4.0W ¶16456684
IDC IV 24 17 48 20.2–.91 32.99N 130.59E 0 3.5,3.4
ISCJB IV 24 17 48 21.3–.52 33.01N–.04 130.71E–.06 20–4 3.2b,2.8s
JMA IV 24 17 48 22.0 33.03N 130.73E 12–1 4.1,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s148.00000°,δ67.00000°,λ-18.00000°. NP2:ϕ_s245.00000°,δ74.00000°,λ-156.00000°. $M_0$1.03000×10^{15}
IDC Error ellipse: s-maj=17.5km s-min=6.3km az=154.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=6.9km az=25.1.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s329.00000°,δ82.00000°,λ-14.00000°. NP2:ϕ_s60.00000°,δ77.00000°,λ-172.00000°. Principal axes: T Plg4.0000°,Azm15.0000°; N Plg74.0000°,Azm120.0000°; P Plg15.0000° ,Azm284.0000°
JMA IV 25 02 44 17.9 33.03N 130.73E 12 2.7
¶600598691

JMA Event type fe.
ISC IV 26 00 53 12.0–1.7 30.05N–.05 131.16E–.08 31–11 3.8b 36 1-77
NIED IV 26 00 53 00 30.00N 131.30E 23 4.0W ¶17202096
JMA IV 26 00 53 09.9–.20 29.95N 131.28E 27–2 3.6
ISCJB IV 26 00 53 12.0–.85 30.03N–.04 131.15E–.09 49–7 3.7b,2.9s
IDC IV 26 00 53 14.3–2.1 30.14N 130.96E 45–18 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ26.00000°,λ92.00000°. NP2:ϕ_s24.00000°,δ64.00000°,λ89.00000°. $M_0$1.07000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=5.0km az=19.9.
IDC Error ellipse: s-maj=32.8km s-min=14.1km az=92.0.
ISC IV 28 21 13 22.4–.91 31.18N–.04 131.88E–.07 29 3.5b 27 1-77
NIED IV 28 21 13 00 31.20N 131.90E 26 4.0W ¶17202326
ISCJB IV 28 21 13 21.3–.74 31.16N–.04 131.97E–.07 29 3.4b,2.6s
JMA IV 28 21 13 22.1–.20 31.18N 131.92E 26–2 3.6,2.6s
IDC IV 28 21 13 27.2–1.8 31.27N 131.42E 59–16 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ45.00000°,λ73.00000°. NP2:ϕ_s49.00000°,δ47.00000°,λ106.00000°. $M_0$1.16000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.3km az=15.7.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=27.3km s-min=13.6km az=115.0.
ISC IV 29 04 38 37.6–.60 30.25N–.04 130.90E–.04 51–5 4.8b,3.8s 333 0-155
NIED IV 29 04 38 00 30.20N 130.90E 50 4.7W,3.8s ¶16482376
BJI IV 29 04 38 35.6 30.13N 130.94E 54 4.7b,4.6b
MOS IV 29 04 38 35.7–.92 30.36N 130.83E 46 5.3b,4.6b
ISCJB IV 29 04 38 36.1–.33 30.24N–.02 130.90E–.03 54–2 4.8b,3.8s
JMA IV 29 04 38 36.9–.10 30.24N 130.95E 44–1 4.6,3.8s
NEIC IV 29 04 38 37.8–.48 30.26N 130.78E 51–4 4.8b,3.8s
IDC IV 29 04 38 37.8–1.2 30.29N 130.74E 51–10 4.7,4.5
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s351.00000°,δ55.00000°,λ-170.00000°. NP2:ϕ_s255.00000°,δ82.00000°,λ-36.00000°. $M_0$1.34000×10^{16}
MOS Error ellipse: s-maj=8.8km s-min=4.7km az=110.3.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=40.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.9km az=120.0. Recorded [3 JMA] on Tanega-shima.
IDC Error ellipse: s-maj=13.0km s-min=7.5km az=102.0.
ISC V 02 09 26 10.6–.69 31.20N–.05 130.49E–.08 134–5 3.6b 36 0-76
ISCJB V 02 09 26 09.4–.36 31.20N–.04 130.51E–.09 137–3 3.5b ¶16577953
IDC V 02 09 26 10.4–.87 31.20N 130.49E 131–7 3.6,3.3
JMA V 02 09 26 11.6–.10 31.23N 130.53E 127–1 3.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.2km az=10.5.
IDC Error ellipse: s-maj=21.2km s-min=8.4km az=100.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 08 17 32 42.8–1.8 30.08N–.09 130.88E–.08 25–10 3.8b 26 0-74
NIED V 08 17 32 00 30.10N 130.90E 5 4.0W ¶17203060
IDC V 08 17 32 38.1–3.1 29.95N 130.81E 0 3.7,3.7b
ISCJB V 08 17 32 42.5–1.0 30.09N–.05 130.90E–.07 31–6 3.7b,3.7b
JMA V 08 17 32 42.4–.10 30.07N 130.89E 24–1 3.6,3.7b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ4.00000°,λ165.00000°. NP2:ϕ_s224.00000°,δ89.00000°,λ86.00000°. $M_0$1.13000×10^{15}
IDC Error ellipse: s-maj=62.3km s-min=31.5km az=156.0.
ISCJB Event type fe. Error ellipse: s-maj=12.3km s-min=5.4km az=35.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 10 09 02 38.1–1.1 32.20N–.08 131.30E–.06 72–7 16 0-73
ISCJB V 10 09 02 37.2–.77 32.19N–.09 131.31E–.07 77–5 3.8b ¶17203197
JMA V 10 09 02 39.4–.10 32.24N 131.29E 63–1 3.3
IDC V 10 09 02 39.7–1.1 33.95N 130.37E 0 3.9b,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=16.2km s-min=7.1km az=154.5.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s25.00000°,δ87.00000°,λ101.00000°. NP2:ϕ_s131.00000°,δ11.00000°,λ16.00000°. Principal axes: T Plg47.0000°,Azm306.0000°; N Plg11.0000°,Azm204.0000°; P Plg41.0000° ,Azm105.0000°
IDC Error ellipse: s-maj=47.5km s-min=10.5km az=62.0.
JMA V 22 16 18 12.5 33.03N 130.72E 12–1 3.5
NIED V 22 16 18 00 33.00N 130.70E 11 3.5W ¶600620865
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ65.00000°,λ-30.00000°. NP2:ϕ_s233.00000°,δ63.00000°,λ-152.00000°. Principal axes: T Plg1.0000°,Azm182.0000°; N Plg52.0000°,Azm273.0000°; P Plg38.0000° ,Azm91.0000°
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s125.00000°,δ70.00000°,λ14.00000°. NP2:ϕ_s30.00000°,δ77.00000°,λ159.00000°. $M_0$1.69000×10^{14}
ISC V 27 10 30 40.1–1.3 31.14N–.04 131.46E–.09 41–11 3.7b,3.2s 30 0-76
NIED V 27 10 30 00 31.10N 131.50E 20 4.0W,3.2s ¶17204561
ISCJB V 27 10 30 38.9–.75 31.13N–.03 131.54E–.08 52–6 3.6b,3.2s
JMA V 27 10 30 39.5–.10 31.11N 131.50E 34–1 3.9,3.2s
IDC V 27 10 30 42.8–3.2 31.24N 131.41E 65–31 3.5,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ8.00000°,λ-127.00000°. NP2:ϕ_s194.00000°,δ83.00000°,λ-85.00000°. $M_0$1.07000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.5km s-min=5.0km az=15.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s344.00000°,δ66.00000°,λ-111.00000°. NP2: ϕ_s208.00000°,δ32.00000°,λ-51.00000°. Principal axes: T Plg18.0000°,Azm90.0000° ; N Plg19.0000°,Azm353.0000°; P Plg63.0000°,Azm220.0000°
IDC Error ellipse: s-maj=53.9km s-min=20.7km az=60.0.
ISC V 28 20 18 38.7–.98 31.63N–.04 129.63E–.04 10–6 4.5b 103 0-101
NIED V 28 20 18 00 31.60N 129.60E 5 4.3W ¶16551392
ISCJB V 28 20 18 37.5–.68 31.61N–.03 129.60E–.03 13–4 4.4b
JMA V 28 20 18 38.0–.10 31.62N 129.60E 7 4.3
NEIC V 28 20 18 41.2–1.3 31.65N 129.59E 24–9 4.6b
IDC V 28 20 18 45.9–2.9 31.84N 129.64E 60–22 4.0,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s97.00000°,δ35.00000°,λ-29.00000°. NP2:ϕ_s211.00000°,δ74.00000°,λ-121.00000°. $M_0$3.23000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=9.2.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s87.00000°,δ56.00000°,λ-79.00000°. NP2:ϕ_s248.00000°,δ35.00000°,λ-105.00000°. Principal axes: T Plg11.0000°,Azm169.0000°; N Plg9.0000°,Azm261.0000°; P Plg76.0000° ,Azm29.0000°

NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.3km az=166.0. Recorded [3 JMA] in Kagoshima.
IDC Error ellipse: s-maj=26.0km s-min=16.7km az=7.0.
JMA VI 05 22 46 50.1 32.84N 130.73E 8–1 0.0
¶600632511

ISC VI 11 21 54 26.4–1.4 30.1N–.10 130.82E–.08 22–4 3.5b 22 0-71
IDC VI 11 21 54 20.5–3.0 29.71N 130.78E 0 3.6b,3.5 ¶17205799
ISCJB VI 11 21 54 25.8–1.2 30.10N–.06 130.85E–.08 28–5 3.5b,3.5
JMA VI 11 21 54 26.4–.10 30.13N 130.83E 20–1 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=55.9km s-min=31.3km az=163.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.9km az=44.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA VI 14 05 07 02.4 33.03N 130.74E 11 0.7
¶600640059

JMA VI 22 21 51 49.9–.10 31.76N 131.99E 27–1 3.5
¶600647420

ISC VI 23 11 38 33.6–.31 30.26N–.04 131.59E–.03 34–0 5.0b,4.7s 658 1-162
NIED VI 23 11 38 00 30.20N 131.60E 14 5.0W,4.7s ¶16646093
ISCJB VI 23 11 38 31.3–.59 30.28N–.02 131.53E–.02 26–4 5.0b,4.6s
JMA VI 23 11 38 31.8–.10 30.25N 131.61E 50–2 4.7,4.6s
MOS VI 23 11 38 32.9–.95 30.42N 131.41E 33 5.1b,4.6s
GCMT VI 23 11 38 32.9–.20 30.37N 131.58E 13–0 5.1W,4.6s
BJI VI 23 11 38 32.3 30.04N 131.73E 55 5.0b,4.8s
NEIC VI 23 11 38 32.9–1.0 30.28N 131.47E 26–7 5.2b,4.8s
IDC VI 23 11 38 35.1–.45 30.36N 131.48E 46–3 4.6s,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s22.00000°,δ45.00000°,λ-116.00000°. NP2:ϕ_s237.00000°,δ51.00000°,λ-66.00000°. $M_0$3.54000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.6km az=151.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.3km az=99.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c80; s89,c165; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.42±.15 $M_{\theta\theta}$-0.17±.09; $M_{\phi\phi}$4.59±.11; $M_{r\theta}$0.59±.27; $M_{\theta\phi}$1.45±.07; $M_{\phi r}$1.94±.25; Best double couple: NP1:ϕ_s196.00000°,δ57.00000° ,λ-89.00000°. NP2:ϕ_s15.00000°,δ33.00000°,λ-91.00000°. Principal axes: T 5.4150,Plg12.0000°,Azm286.0000°; N -0.5780,Plg1.0000°,Azm16.0000° ; P -4.8380,Plg78.0000°,Azm108.0000° $M_0$5.12600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=148.0. Recorded [2 JMA] in Kagoshima.
IDC Error ellipse: s-maj=11.6km s-min=7.6km az=71.0.
ISC VI 28 12 18 27.1–1.1 33.02N–.04 130.72E–.04 5–8 3.5b,3.1s 17 0-68
NIED VI 28 12 18 00 33.00N 130.70E 11 4.1W,3.1s ¶603244194
ISCJB VI 28 12 18 25.9–.55 33.03N–.04 130.73E–.06 13–4 3.5b,3.1s
IDC VI 28 12 18 26.2–.88 33.10N 130.67E 0 3.7,3.6
JMA VI 28 12 18 26.2 33.02N 130.74E 11–1 4.2,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ76.00000°,λ179.00000°. NP2:ϕ_s310.00000°,δ89.00000°,λ14.00000°. $M_0$1.64000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=6.3km az=36.1.
IDC Error ellipse: s-maj=15.9km s-min=6.0km az=178.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s130.00000°,δ87.00000°,λ-10.00000°. NP2:ϕ_s221.00000°,δ80.00000°,λ-177.00000°. Principal axes: T Plg5.0000°,Azm176.0000°; N Plg80.0000°,Azm295.0000°; P Plg9.0000° ,Azm85.0000°
JMA VI 28 13 58 20.7 33.03N 130.73E 10–1 0.2
¶600651746

ISC VI 29 14 36 10.8–.78 33.38N–.05 131.93E–.04 66–6 3.5b 33 0-71
NIED VI 29 14 36 00 33.40N 131.90E 59 3.9W ¶17207201
ISCJB VI 29 14 36 09.8–.40 33.38N–.04 131.93E–.04 74–3 3.5b
JMA VI 29 14 36 11.1 33.41N 131.91E 64–1 3.8
IDC VI 29 14 36 11.4–1.2 33.33N 131.83E 74–11 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ27.00000°,λ96.00000°. NP2:ϕ_s91.00000°,δ63.00000°,λ87.00000°. $M_0$6.88000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.9km az=161.6.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s106.00000°,δ68.00000°,λ67.00000°. NP2:ϕ_s335.00000°,δ31.00000°,λ135.00000°. Principal axes: T Plg60.0000°,Azm342.0000°; N Plg21.0000°,Azm115.0000°; P Plg20.0000° ,Azm213.0000°
IDC Error ellipse: s-maj=20.8km s-min=17.8km az=68.0.

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IDC II 13 20 11 16.3–392 32.69N 133.01E 0
¶17192169

IDC Error ellipse: s-maj=179.3km s-min=123.6km az=79.0.
ISC III 11 09 24 05.4–.72 33.82N–.10 134.63E–.09 16 4.5b 18 4-90
IDC III 11 09 24 02.5–.93 33.82N 134.82E 0 4.6,4.3 ¶16476131
ISCJB III 11 09 24 03.4–.49 33.83N–.07 134.65E–.07 16 4.6b,4.3
NEIC III 11 09 24 04.4–.39 33.81N 134.63E 10 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=22.7km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=8.6km az=19.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.1km az=198.0.
JMA III 20 05 52 30.2 33.54N 132.31E 43 1.3
¶602677901

ISC III 26 18 38 32.0–1.0 33.58N–.04 132.59E–.04 40–8 22 0-68
NIED III 26 18 38 00 33.60N 132.60E 41 3.6W ¶17198674
IDC III 26 18 38 24.7–3.5 33.66N 132.92E 0 3.6b,3.5
JMA III 26 18 38 31.9 33.59N 132.55E 42 3.6,3.5
ISCJB III 26 18 38 31.5–.55 33.59N–.04 132.56E–.05 48–5 3.5b,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s106.00000°,δ46.00000°,λ-122.00000°. NP2:ϕ_s328.00000°,δ52.00000°,λ-61.00000°. $M_0$2.89000×10^{14}
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s90.00000°,δ57.00000°,λ-123.00000°. NP2:ϕ_s320.00000°,δ45.00000°,λ-50.00000°. Principal axes: T Plg7.0000°,Azm203.0000°; N Plg27.0000°,Azm109.0000°; P Plg62.0000° ,Azm306.0000°
ISCJB Event type fe.
JMA III 30 19 49 54.8 33.24N 134.74E 16–2
¶602702964

JMA III 30 19 49 54.3–.10 33.17N 134.78E 39–4 1.1
¶602702967

JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 19 17 35 32.9–1.2 32.16N–.04 132.00E–.04 29–9 3.8b 32 0-84
NIED IV 19 17 35 00 32.10N 132.00E 32 3.8W ¶17201528
ISCJB IV 19 17 35 32.8–.52 32.13N–.04 132.03E–.04 44–7 3.7b,3.2s
JMA IV 19 17 35 33.4–.10 32.17N 131.98E 30–1 3.7,3.2s
IDC IV 19 17 35 35.3–1.9 32.11N 131.98E 51–21 3.8,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s166.00000°,δ41.00000°,λ-64.00000°. NP2:ϕ_s313.00000°,δ54.00000°,λ-111.00000°. $M_0$5.83000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=4.9km az=141.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s155.00000°,δ70.00000°,λ-69.00000°. NP2: ϕ_s287.00000°,δ29.00000°,λ-134.00000°. Principal axes: T Plg22.0000°,Azm229.0000° ; N Plg19.0000°,Azm327.0000°; P Plg60.0000°,Azm95.0000°
IDC Error ellipse: s-maj=22.3km s-min=13.7km az=38.0.
ISC IV 27 22 00 18.9–.77 32.71N–.05 132.13E–.03 37–1 3.8b 35 0-84
NIED IV 27 22 00 00 32.70N 132.20E 32 4.0W ¶17202261
ISCJB IV 27 22 00 18.5–.43 32.73N–.05 132.10E–.04 50–4 3.7b,3.5s
JMA IV 27 22 00 19.1 32.69N 132.14E 37–1 3.9,3.5s
IDC IV 27 22 00 19.5–.76 32.65N 131.96E 41–7 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ34.00000°,λ-102.00000°. NP2:ϕ_s180.00000°,δ57.00000°,λ-82.00000°. $M_0$1.03000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=4.9km az=155.3.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s170.00000°,δ50.00000°,λ-80.00000°. NP2:ϕ_s335.00000°,δ41.00000°,λ-102.00000°. Principal axes: T Plg5.0000°,Azm253.0000°; N Plg8.0000°,Azm344.0000°; P Plg81.0000° ,Azm132.0000°

IDC Error ellipse: s-maj=20.5km s-min=13.1km az=62.0.
ISC V 07 12 47 38.5–.73 33.86N–.05 134.69E–.03 35–2 3.6b,3.3s 38 0-77
NIED V 07 12 47 00 33.90N 134.70E 35 4.1W,3.3s **¶16500442**
ISCJB V 07 12 47 37.4–.41 33.85N–.04 134.69E–.03 42–5 3.6b,3.3s
IDC V 07 12 47 38.3–.85 33.78N 134.70E 34–6 3.8,3.8
JMA V 07 12 47 38.1 33.86N 134.69E 39–1 4.0,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s142.00000°,δ26.00000°,λ148.00000°. NP2:ϕ_s261.00000°,δ77.00000°,λ68.00000°. $M_0$1.87000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.1km az=161.2.
IDC Error ellipse: s-maj=19.3km s-min=15.6km az=138.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s289.00000°,δ59.00000°,λ89.00000°. NP2:ϕ_s111.00000°,δ31.00000°,λ92.00000°. Principal axes: T Plg76.0000°,Azm196.0000°; N Plg1.0000°,Azm290.0000°; P Plg14.0000°,Azm20.0000°
ISC V 07 13 00 25.8–1.1 33.88N–.05 134.68E–.03 33–4 27 0-55
NIED V 07 13 00 00 33.90N 134.70E 41 3.6W **¶17202989**
IDC V 07 13 00 21.9–1.3 33.68N 134.79E 0 3.8,3.6
ISCJB V 07 13 00 25.3–.52 33.87N–.04 134.68E–.04 43–7 3.7b,3.6
JMA V 07 13 00 26.1 33.86N 134.68E 38–1 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s122.00000°,δ30.00000°,λ87.00000°. NP2:ϕ_s306.00000°,δ60.00000°,λ92.00000°. $M_0$3.20000×10^{14}
IDC Error ellipse: s-maj=40.6km s-min=23.7km az=120.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=4.7km az=162.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s308.00000°,δ50.00000°,λ105.00000°. NP2:ϕ_s106.00000°,δ42.00000°,λ73.00000°. Principal axes: T Plg78.0000°,Azm278.0000°; N Plg11.0000°,Azm119.0000°; P Plg4.0000°,Azm28.0000°
ISC V 22 05 07 21.2–.92 32.02N–.07 134.88E–.06 35 3.6b 30 1-78
IDC V 22 05 07 16.7–1.1 31.94N 134.80E 0 3.7,3.6 **¶17204189**
ISCJB V 22 05 07 19.3–.68 32.02N–.04 134.85E–.05 33 3.5b,3.6
JMA V 22 05 07 19.0–.30 31.97N 134.80E 46–1 2.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.8km s-min=21.8km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.7km az=142.2.
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
JMA VI 05 05 41 36.6 32.59N 132.02E 33–1 0.8
¶600631794
ISC VI 07 21 36 53.7–.62 33.95N–.03 132.99E–.03 44–5 3.9b 44 0-76
NIED VI 07 21 36 00 34.00N 133.00E 41 3.8W **¶17205517**
ISCJB VI 07 21 36 52.4–.32 33.96N–.03 132.99E–.04 48–3 3.8b,3.0s
JMA VI 07 21 36 52.8 33.96N 132.98E 40 3.8,3.0s
IDC VI 07 21 36 54.7–.98 33.89N 132.98E 59–6 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ35.00000°,λ-105.00000°. NP2:ϕ_s25.00000°,δ57.00000°,λ-80.00000°. $M_0$5.79000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.4km az=2.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s57.00000°,δ58.00000°,λ-46.00000°. NP2:ϕ_s177.00000°,δ53.00000°,λ-138.00000°. Principal axes: T Plg3.0000°,Azm118.0000°; N Plg36.0000°,Azm210.0000°; P Plg54.0000°,Azm24.0000°
IDC Error ellipse: s-maj=19.9km s-min=8.8km az=148.0.
ISC VI 17 12 09 07.1–.64 32.69N–.05 132.13E–.03 41–5 3.8b,3.4s 42 0-76
NIED VI 17 12 09 00 32.70N 132.20E 32 4.2W,3.4s **¶17206386**
ISCJB VI 17 12 09 06.5–.39 32.71N–.04 132.13E–.04 55–3 3.8b,3.4s
IDC VI 17 12 09 06.4–.78 32.91N 132.31E 39–5 3.9,3.8
JMA VI 17 12 09 07.3 32.68N 132.13E 37–1 4.1,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s163.00000°,δ34.00000°,λ-116.00000°. NP2:ϕ_s13.00000°,δ60.00000°,λ-74.00000°. $M_0$2.17000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.5km az=153.9.
IDC Error ellipse: s-maj=25.4km s-min=13.1km az=55.0.
JMA Event type fe. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s10.00000°,δ71.00000°,λ-78.00000°. NP2:ϕ_s157.00000°,δ22.00000°,λ-121.00000°. Principal axes: T Plg25.0000°,Azm91.0000°; N Plg11.0000°,Azm186.0000°; P Plg62.0000°,Azm298.0000°

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ISC I 12 09 04 54.0–.54 32.19N–.06 136.67E–.05 457–5 4.2b 170 1-152
NIED I 12 09 04 00 32.30N 136.60E 440 4.2W **¶15920382**
BJI I 12 09 04 51.3 32.10N 136.87E 470 4.8b,4.6b
MOS I 12 09 04 52.9–.92 32.18N 136.53E 459 4.1b,4.6b
ISCJB I 12 09 04 52.9–.27 32.17N–.04 136.68E–.04 463–2 4.1b,4.6b
NEIC I 12 09 04 53.6–.54 32.13N 136.62E 455–6 4.3b,4.6b
IDC I 12 09 04 54.4–.63 32.25N 136.53E 457–6 4.4,3.7
JMA I 12 09 04 54.5–.30 32.30N 136.59E 463–3 3.8,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s213.00000°,δ31.00000°,λ-113.00000°. NP2:ϕ_s60.00000°,δ61.00000°,λ-76.00000°. $M_0$2.42000×10^{15}
MOS Error ellipse: s-maj=12.4km s-min=6.4km az=100.6.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=179.8.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=9.8km az=177.0.
IDC Error ellipse: s-maj=9.3km s-min=8.9km az=70.0.
JMA Error ellipse: s-maj=3.3km s-min=1.9km az=-1.0.
ISC I 14 02 23 59.1–1.0 33.0N–.10 136.89E–.08 400 3.1b 22 1-71
ISCJB I 14 02 23 58.3–.73 32.8N–.10 136.92E–.09 400 3.1b **¶17190126**
JMA I 14 02 23 58.7–.30 32.89N 136.94E 403–4 2.9
IDC I 14 02 23 59.4–1.9 33.06N 136.79E 403–32 3.7,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=8.3km az=150.0.
JMA Error ellipse: s-maj=4.4km s-min=2.8km az=-1.0.
IDC Error ellipse: s-maj=68.9km s-min=18.9km az=71.0.
ISC I 23 09 42 31.3–.00 32.12N–.07 135.30E–.04 35 3.6b 41 1-71
IDC I 23 09 42 26.6–1.1 31.98N 135.34E 0 3.7,3.6b **¶17190789**
ISCJB I 23 09 42 29.6–.63 32.14N–.04 135.30E–.03 33 3.6b,3.5s
JMA I 23 09 42 29.9–.10 32.20N 135.33E 29–3 3.2,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=28.4km s-min=21.6km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=158.6.
JMA Error ellipse: s-maj=2.2km s-min=0.9km az=-1.0.
IDC I 27 06 36 45.0–848 31.14N 132.07E 0
¶17191082
IDC Error ellipse: s-maj=311.7km s-min=166.2km az=40.0.
IDC I 27 07 20 04.7–863 31.27N 132.51E 0
¶17191086
IDC Error ellipse: s-maj=288.7km s-min=151.7km az=39.0.
IDC I 28 03 45 05.1–864 31.65N 132.06E 0
¶17191170
IDC Error ellipse: s-maj=293.2km s-min=160.4km az=45.0.
ISC I 31 17 32 28.6–1.2 31.84N–.06 132.02E–.05 43–11 3.8b 46 1-88
NIED I 31 17 32 00 31.80N 132.20E 26 4.3W **¶16136320**
IDC I 31 17 32 22.9–.65 31.85N 131.77E 0 3.9,3.9
JMA I 31 17 32 26.1–.20 31.83N 132.18E 22–2 4.1,3.9
ISCJB I 31 17 32 27.4–.62 31.83N–.05 132.09E–.05 54–5 3.8b,3.2s
NEIC I 31 17 32 28.8–1.1 31.81N 131.88E 44–10 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ44.00000°,λ108.00000°. NP2:ϕ_s5.00000°,δ49.00000°,λ74.00000°. $M_0$2.67000×10^{15}
IDC Error ellipse: s-maj=19.4km s-min=16.9km az=76.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=8.4km s-min=6.8km az=141.8.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=8.9km az=207.0. Recorded [1 JMA] in Miyazaki.
IDC I 31 20 27 09.3–526 31.76N 132.59E 0
¶17191433
IDC Error ellipse: s-maj=232.9km s-min=136.3km az=29.0.
IDC I 31 21 46 18.7–503 31.88N 132.64E 0
¶17191436
IDC Error ellipse: s-maj=219.2km s-min=130.9km az=32.0.
IDC I 31 22 40 39.1–531 31.69N 132.50E 0
¶17191440
IDC Error ellipse: s-maj=234.0km s-min=137.6km az=27.0.
IDC I 31 22 55 23.6–520 31.64N 132.66E 0
¶17191443
IDC Error ellipse: s-maj=220.3km s-min=127.7km az=22.0.
IDC II 06 23 08 06.9–399 31.86N 132.02E 0
¶17191836
IDC Error ellipse: s-maj=188.7km s-min=126.7km az=77.0.
JMA III 11 06 52 03.3–.20 32.48N 135.47E 30 3.5
¶602654508
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
ISC III 16 19 17 12.7–.99 30.77N–.05 132.44E–.06 25 3.6b 23 1-71
IDC III 16 19 17 09.2–1.1 30.78N 132.46E 0 3.8,3.7 **¶17196514**
ISCJB III 16 19 17 10.9–.69 30.74N–.04 132.49E–.05 25 3.6b,3.7
JMA III 16 19 17 12.2–.10 30.70N 132.44E 52 3.1,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=18.5km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.3km az=16.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 17 21 14 52.5–2.7 30.72N–.05 132.44E–.06 8–15 3.9b 48 1-85
NIED III 17 21 14 00 30.70N 132.50E 26 4.1W **¶16453169**
IDC III 17 21 14 51.7–.66 30.76N 132.43E 0 4.1,3.9
ISCJB III 17 21 14 53.3–1.3 30.74N–.03 132.46E–.04 24–9 3.8b,3.9
JMA III 17 21 14 54.1–.10 30.69N 132.47E 53 3.6,3.9
NEIC III 17 21 14 56.4–2.1 30.73N 132.34E 31–15 4.1b,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s5.00000°,δ6.00000°,λ67.00000°. NP2: ϕ_s209.00000°,δ85.00000°,λ92.00000°. $M_0$1.62000×10^{15}
IDC Error ellipse: s-maj=22.3km s-min=14.3km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.2km az=34.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.0km az=104.0.
ISC III 17 23 15 41.7–1.7 30.77N–.05 132.47E–.07 18–5 3.5b 24 1-58
JMA III 17 23 15 43.9–.20 30.72N 132.45E 55 3.0 **¶16478728**
ISCJB III 17 23 15 43.2–1.2 30.75N–.05 132.52E–.08 33–12 3.8s,3.6b
IDC III 17 23 15 52.3–1.8 31.04N 130.65E 0 3.8,3.8
NEIC III 17 23 15 53.5–.85 31.04N 130.64E 10 4.0b,3.8
ISC Event type se.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=6.7km az=34.0.
IDC Error ellipse: s-maj=48.2km s-min=20.1km az=93.0.
NEIC Event type se. Error ellipse: s-maj=19.6km s-min=10.5km az=104.0.
ISC III 21 22 31 20.5–3.0 30.76N–.08 132.41E–.07 30–20 22 1-71
IDC III 21 22 31 16.7–1.4 30.65N 132.35E 0 3.7,3.6 **¶17197769**
JMA III 21 22 31 18.8–.10 30.65N 132.46E 59–5 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=44.4km s-min=22.1km az=95.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC III 21 22 40 17.0–2.2 30.69N–.05 132.41E–.06 6–13 3.9b 45 1-84
IDC III 21 22 40 16.5–.83 30.68N 132.31E 0 4.0,3.8 **¶16480091**
JMA III 21 22 40 18.8–.20 30.67N 132.45E 56 3.7,3.8
ISCJB III 21 22 40 18.0–1.3 30.68N–.04 132.42E–.05 24–9 3.8b,3.0s
NEIC III 21 22 40 19.6–3.0 30.68N 132.33E 20–19 4.3b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=16.5km az=85.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=6.7km az=172.1.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=6.3km az=103.0.
JMA IV 16 06 24 47.9–.10 32.69N 136.09E 40–2 3.6
¶600589568
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC IV 20 18 50 00.3–2.6 30.65N–.07 132.38E–.10 9–12 3.4b 20 1-54
JMA IV 20 18 50 02.7–.10 30.62N 132.36E 57 3.4 **¶17201636**
IDC IV 20 18 50 07.1–1.4 30.74N 130.95E 0 3.5,3.4b
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=73.7km s-min=18.1km az=80.0.
ISC V 14 18 51 03.0–.86 31.53N–.07 133.27E–.07 35 3.6b,2.9s 28 1-86
IDC V 14 18 50 57.8–.97 31.43N 133.28E 0 3.7,3.6 **¶17203631**
NIED V 14 18 51 00 31.60N 133.20E 5 3.7W,3.6
ISCJB V 14 18 51 01.2–.72 31.56N–.04 133.29E–.07 35 3.5b,2.7s
JMA V 14 18 51 01.2–.20 31.55N 133.22E 38 3.7,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=43.5km s-min=18.2km az=59.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s42.00000°,δ30.00000°,λ-85.00000°. NP2:ϕ_s216.00000°,δ60.00000°,λ-93.00000°. $M_0$4.16000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.8km az=12.1.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.

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ISC I 04 11 42 08.0–1.6 27.41N–.07 128.15E–.07 14–10 3.4b 21 0-77
ISCJB I 04 11 42 08.4–.75 27.40N–.05 128.15E–.07 21–7 3.4b **¶17189418**
JMA I 04 11 42 08.1 27.42N 128.14E 17–1 3.3
IDC I 04 11 42 17.7–7.0 27.44N 128.45E 86–50 4.0,4.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=4.0km az=41.7.
IDC Error ellipse: s-maj=265.7km s-min=27.5km az=97.0.
ISC I 04 14 50 50.3–1.2 28.78N–.05 130.04E–.09 49–10 3.5b 33 1-77
ISCJB I 04 14 50 49.4–.60 28.78N–.04 130.05E–.08 59–5 3.5b **¶17189431**
JMA I 04 14 50 49.5–.10 28.78N 130.12E 38–2 3.3
IDC I 04 14 50 51.6–3.8 28.79N 129.94E 60–36 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=4.3km az=23.7.
IDC Error ellipse: s-maj=30.7km s-min=17.1km az=73.0.
ISC I 04 15 01 49.2–2.4 28.01N–.05 129.87E–.08 36–3 3.5b 32 0-72
ISCJB I 04 15 01 47.7–.54 27.98N–.03 129.91E–.05 49–9 3.3b **¶17189433**
JMA I 04 15 01 48.7–.10 28.02N 129.89E 43–2 3.5
IDC I 04 15 01 50.8–1.2 28.74N 128.56E 0 3.6,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=3.6km az=29.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=61.4km s-min=22.3km az=91.0.
ISC I 04 19 50 35.3–.95 28.74N–.06 128.42E–.07 10 3.2b 17 1-76
IDC I 04 19 50 34.0–.74 28.81N 128.51E 0 3.6,3.4 **¶17189450**
ISCJB I 04 19 50 34.2–.67 28.76N–.05 128.26E–.05 10 3.3b,3.4
JMA I 04 19 50 35.2–.20 28.75N 128.27E 23 2.8,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=37.5km s-min=11.9km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=6.3km az=2.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA I 07 21 51 02.1–.20 29.43N 130.39E 44
¶602568402
JMA Error ellipse: s-maj=2.2km s-min=1.9km az=-1.0.
ISC I 07 21 51 04.9–1.2 29.40N–.05 130.37E–.08 47–12 3.6b,3.4s 30 1-75
IDC I 07 21 50 58.0–.89 29.22N 130.09E 0 3.7,3.6 **¶17189661**
NIED I 07 21 51 00 29.40N 130.40E 26 4.0W,3.6
JMA I 07 21 51 03.8–.10 29.40N 130.39E 48–5 3.9,3.6
ISCJB I 07 21 51 04.1–.54 29.41N–.04 130.37E–.08 61–5 3.5b,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s229.00000°,δ9.00000°,λ97.00000°. NP2:ϕ_s42.00000°,δ81.00000°,λ89.00000°. $M_0$1.32000×10^{15}
JMA Event type fe.
ISCJB Event type fe.
JMA I 16 06 30 25.6–.10 27.02N 129.94E 51 3.7
¶600519192
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 17 01 53 24.9–.89 27.53N–.04 129.35E–.05 37–1 3.8b 37 0-88
ISCJB I 17 01 53 24.0–.48 27.53N–.03 129.35E–.05 46–4 3.7b **¶16019227**
JMA I 17 01 53 24.8 27.56N 129.30E 45–1 3.4
IDC I 17 01 53 26.1–4.9 27.50N 129.04E 43–43 3.8,3.8
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.4km az=28.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=47.0km s-min=25.9km az=68.0.
ISC I 17 18 54 59.6–1.8 29.10N–.05 130.46E–.08 32–13 3.4b 30 1-77
ISCJB I 17 18 54 59.3–.69 29.09N–.04 130.47E–.08 45–7 3.5b **¶17190421**
JMA I 17 18 54 59.5–.10 29.13N 130.40E 63–3 3.1
IDC I 17 18 55 03.2–4.7 29.00N 130.47E 66–43 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.4km az=22.8.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=29.0km s-min=19.2km az=80.0.
ISC I 18 04 11 16.8–2.0 26.16N–.05 128.37E–.06 14–12 4.1b,4.0s 47 0-107
NIED I 18 04 11 00 26.20N 128.40E 20 4.4W,4.0s **¶16016422**
IDC I 18 04 11 14.9–.77 26.15N 128.16E 0 4.2,4.0
ISCJB I 18 04 11 17.0–.84 26.16N–.04 128.44E–.05 30–5 4.0s,4.0b
NEIC I 18 04 11 17.5–1.6 26.16N 128.20E 16–9 4.4b,4.0b
JMA I 18 04 11 19.0–.30 26.24N 128.38E 27–4 3.8,4.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S218.00000°,δ17.00000°,λ82.00000°. NP2:ϕ_S46.00000°,δ73.00000°,λ92.00000°. M$_0$4.43000×10^{15}
IDC Error ellipse: s-maj=26.2km s-min=17.9km az=68.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.5km az=42.4.
NEIC Event type fe. Error ellipse: s-maj=12.1km s-min=7.8km az=122.0. Recorded [1 JMA] on Okinawa.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
ISC I 18 15 12 27.4–2.9 28.92N–.05 130.69E–.09 16–16 3.4b 30 1-77
IDC I 18 15 12 24.8–2.2 29.02N 130.80E 0 3.7,3.7s **¶17190485**
ISCJB I 18 15 12 28.1–.89 28.86N–.04 130.77E–.08 36–9 3.7s,3.3b
JMA I 18 15 12 28.9–.20 28.92N 130.67E 50 3.1,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=120.4km s-min=22.0km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=4.9km az=26.1.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC I 20 03 36 31.0–.78 27.47N–.07 127.29E–.06 150–8 3.5b 49 1-78
IDC I 20 03 36 24.0–10 26.81N 127.20E 108–70 4.3L,3.7 **¶17190601**
ISCJB I 20 03 36 30.0–.37 27.48N–.07 127.25E–.07 149–7 3.4b,3.7
JMA I 20 03 36 32.2–.20 27.57N 127.24E 130–4 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=110.3km s-min=34.6km az=2.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=4.0km az=138.9.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 20 11 36 41.6–.29 29.67N–.03 129.39E–.03 158–2 5.2b 1060 0-173
NIED I 20 11 36 00 29.60N 129.60E 160 5.2W **¶15947657**
BJI I 20 11 36 37.2 29.41N 129.68E 158 5.3b,5.2b
ISCJB I 20 11 36 39.8–.17 29.66N–.02 129.33E–.02 150–1 5.1b,5.2b
MOS I 20 11 36 39.7–1.1 29.67N 129.28E 151 5.3b,5.2b
JMA I 20 11 36 41.0–.10 29.55N 129.58E 150–2 4.9,5.2b
IDC I 20 11 36 41.5–.37 29.65N 129.37E 157–3 5.2,4.8
NEIC I 20 11 36 41.8–.42 29.65N 129.27E 156–3 5.2b,4.8
GCMT I 20 11 36 41.8–.20 29.56N 129.45E 159–1 5.2W,4.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S130.00000°,δ19.00000°,λ17.00000°. NP2:ϕ_S24.00000°,δ84.00000°,λ109.00000°. M$_0$7.73000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=42.6.
MOS Error ellipse: s-maj=8.1km s-min=4.4km az=109.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=7.2km s-min=5.7km az=79.0.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=138.0. Recorded [2 JMA] on Akuseki-jima, Amami-oshima, Tokuno-shima and Yoro-shima; [1 JMA] on Kikaiga-shima, Nakano-shima, Okino-erabu-shima, Suwanose-jima, Tanega-shima and Yaku-shima. Also recorded [1 JMA] in Kagoshima and Miyazaki, Kyushu.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s65,c84; s104,c171; Duration: 1^{s}0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$-0.28±.19 M$_{\theta\theta}$0.60±.22; M$_{\phi\phi}$-0.31±.25; M$_{r\theta}$2.51±.13; M$_{\theta\phi}$2.02±.22; M$_{\phi r}$7.49±.14; Best double couple: NP1:ϕ_S197.00000°,δ88.00000°,λ-104.00000°. NP2:ϕ_S99.00000°,δ14.00000°,λ-9.00000°. Principal axes: T 8.4910,Plg41.0000°,Azm300.0000°; N -0.6860,Plg14.0000°,Azm198.0000°; P -7.8060,Plg45.0000°,Azm94.0000° M$_0$8.14900×10^{16}
ISC I 23 12 44 58.6–1.6 26.28N–.04 129.10E–.04 10–10 3.9b 38 1-73
IDC I 23 12 44 58.2–1.1 26.28N 128.98E 0 3.8,3.7 **¶17190804**
JMA I 23 12 45 00.4–.10 26.30N 129.14E 41 3.7,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=63.4km s-min=18.1km az=72.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 24 12 34 01.0–.93 25.93N–.05 128.59E–.04 27 3.5b 36 1-59
IDC I 24 12 33 58.8–1.5 25.87N 128.60E 0 3.6,3.4s **¶17190888**
ISCJB I 24 12 33 59.8–.50 25.93N–.03 128.61E–.04 27 3.4s,3.3b
JMA I 24 12 34 02.3–.30 26.00N 128.52E 44–4 3.2,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=63.6km s-min=24.4km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=41.4.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 28 22 40 12.2–.55 26.46N–.04 128.76E–.04 32–2 4.7b,4.0s 238 1-115
NIED I 28 22 40 00 26.40N 129.00E 11 4.5W,4.0s **¶15979841**
IDC I 28 22 40 07.0–.59 26.39N 128.77E 0 4.4,4.3
JMA I 28 22 40 09.0–.30 26.35N 128.97E 32–4 4.3,4.3
MOS I 28 22 40 10.6–1.2 26.49N 128.75E 33 4.9b,4.3
BJI I 28 22 40 10.0 26.55N 128.78E 32 4.6b,4.5b
ISCJB I 28 22 40 14.2–.72 26.88N–.03 128.30E–.03 32–5 4.7b,4.0s
NEIC I 28 22 40 16.6–.99 26.99N 128.24E 34–7 4.9b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S199.00000°,δ29.00000°,λ56.00000°. NP2:ϕ_S57.00000°,δ66.00000°,λ107.00000°. M$_0$6.63000×10^{15}
IDC Error ellipse: s-maj=17.7km s-min=13.6km az=92.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=5.9km az=104.6.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.0km az=41.2.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.8km az=133.0.
ISC I 29 05 49 18.2–.87 28.30N–.06 128.27E–.07 149–7 3.3b 30 1-77
ISCJB I 29 05 49 17.5–.51 28.29N–.05 128.30E–.07 152–5 3.1b **¶17191237**
JMA I 29 05 49 18.9–.20 28.38N 128.15E 131–4 3.9
IDC I 29 05 49 19.0–3.1 28.36N 128.31E 155–31 3.5,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.5km az=34.7.
JMA Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=33.9km s-min=23.0km az=81.0.
ISC I 29 07 00 55.2–1.7 26.39N–.05 128.93E–.04 34–4 3.9b 24 1-50
IDC I 29 07 00 51.4–1.4 26.45N 128.32E 0 3.9,3.8 **¶17191241**
ISCJB I 29 07 00 54.5–.68 26.39N–.05 128.95E–.04 35–14 3.8b,3.8
JMA I 29 07 00 55.0–.40 26.39N 128.90E 29–4 3.2,3.8
ISC Event type se.
IDC Error ellipse: s-maj=68.8km s-min=23.3km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.5km az=159.5.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC I 29 10 42 53.0–1.9 26.37N–.04 128.88E–.04 4–11 4.0b 43 1-78
NIED I 29 10 42 00 26.40N 128.90E 14 4.2W **¶17191249**
IDC I 29 10 42 53.1–.74 26.39N 128.67E 0 4.0,3.9
JMA I 29 10 42 55.5–.20 26.39N 128.90E 31–3 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S285.00000°,δ24.00000°,λ127.00000°. NP2:ϕ_S66.00000°,δ71.00000°,λ75.00000°. M$_0$2.42000×10^{15}
IDC Error ellipse: s-maj=25.9km s-min=15.3km az=75.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC I 30 02 43 34.3–1.7 26.33N–.04 128.85E–.04 7–10 4.1b,3.4s 75 1-88
NIED I 30 02 43 00 26.40N 128.90E 20 4.2W,3.4s **¶16019279**
IDC I 30 02 43 34.0–.74 26.36N 128.66E 0 4.0,3.9
NEIC I 30 02 43 34.9–.33 26.27N 128.75E 10 4.3b,3.9
JMA I 30 02 43 36.3–.20 26.38N 128.91E 25–3 3.8,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S277.00000°,δ46.00000°,λ165.00000°. NP2:ϕ_S18.00000°,δ79.00000°,λ45.00000°. M$_0$2.06000×10^{15}

IDC Error ellipse: s-maj=25.1km s-min=13.5km az=61.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.9km az=141.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 30 18 12 07.1–2.3 26.37N–.05 128.92E–.04 29–17 3.5b 26 1-77
IDC I 30 18 12 04.2–1.6 26.34N 128.73E 0 3.6,3.6 **¶17191346**
ISCJB I 30 18 12 05.8–1.0 26.36N–.05 128.96E–.04 29–7 3.4b,3.6
JMA I 30 18 12 05.5–.20 26.32N 128.97E 32–4 3.3,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=60.1km s-min=23.9km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.8km az=169.9.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC II 04 02 24 56.1–.84 28.78N–.05 130.16E–.06 51–8 4.3s,4.1b 47 0-95
ISCJB II 04 02 24 54.8–.45 28.78N–.03 130.21E–.05 58–4 4.4s,4.0b **¶16158775**
JMA II 04 02 24 54.9–.20 28.81N 130.15E 60–4 3.4,4.0b
NEIC II 04 02 24 55.9–.71 28.65N 130.12E 54–7 4.4b,4.0b
IDC II 04 02 24 55.6–1.5 28.81N 130.06E 42–14 4.3,4.3s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.4km az=26.9.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.4km az=136.0.
IDC Error ellipse: s-maj=23.5km s-min=10.5km az=120.0.
ISC II 04 11 15 45.7–.31 29.23N–.03 130.38E–.03 46–2 5.6b,4.7s 1379 1-173
NIED II 04 11 15 00 29.20N 130.30E 35 5.3W,4.7s **¶16003937**
BJI II 04 11 15 39.8 28.97N 130.61E 35 5.2b,5.2b
ISCJB II 04 11 15 43.6–.26 29.24N–.01 130.29E–.02 37–2 5.5b,4.7s
MOS II 04 11 15 44.0–1.2 29.22N 130.25E 44 5.8b,4.4s
JMA II 04 11 15 44.7 29.21N 130.31E 72–2 5.0,4.4s
NEIC II 04 11 15 45.5–.37 29.18N 130.23E 42–3 5.7b,4.4s
GCMT II 04 11 15 45.5–.20 29.19N 130.37E 31–1 5.3W,4.4s
IDC II 04 11 15 45.9–.51 29.27N 130.22E 46–5 5.3,5.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S33.00000°,δ12.00000°,λ-66.00000°. NP2:ϕ_S188.00000°,δ79.00000°,λ-95.00000°. M$_0$1.13000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=139.1.
MOS Error ellipse: s-maj=5.7km s-min=3.6km az=103.2.
JMA Event type fe.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=133.0. Felt at Naha, Okinawa. Recorded [3 JMA] on Nakano-shima and Suwanose-jima; [2 JMA] on Akuseki-shima and Amami-oshima; [1 JMA] on Kikaiga-shima, Tanega-shima and Yaku-shima. Recorded [1 JMA] in Kagoshima, Kyushu.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s58,c91; s100,c175;Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M$_{rr}$-0.32±.02 M$_{\theta\theta}$0.06±.01; M$_{\phi\phi}$0.26±.02; M$_{r\theta}$0.15±.02; M$_{\theta\phi}$0.32±.01; M$_{\phi r}$1.03±.06; Best double couple: NP1:ϕ_S190.00000°,δ81.00000°,λ-104.00000°. NP2:ϕ_S67.00000°,δ16.00000°,λ-34.00000°. Principal axes: T 1.1520,Plg35.0000°,Azm292.0000°; N -0.0490,Plg13.0000°,Azm192.0000°; P -1.1030,Plg52.0000°,Azm84.0000° M$_0$1.12700×10^{17}
IDC Error ellipse: s-maj=8.8km s-min=6.2km az=101.0.
JMA II 04 15 01 59.2–.10 29.64N 129.78E 5–3 3.7 ¶600525398
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
ISC II 07 04 05 44.0–1.5 25.99N–.04 128.78E–.04 13–9 3.6b 40 1-80
IDC II 07 04 05 42.0–.88 26.15N 129.13E 0 3.8,3.8 **¶17191842**
ISCJB II 07 04 05 44.3–.98 25.99N–.03 128.78E–.04 28–7 3.5b,3.3s
JMA II 07 04 05 46.1–.30 26.04N 128.71E 39 3.4,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=37.1km s-min=17.0km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=139.2.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC II 10 21 12 11.7–1.1 29.30N–.04 129.98E–.09 47–10 3.5b 28 1-75
ISCJB II 10 21 12 11.1–.45 29.32N–.04 130.0E–.10 59–5 3.5b **¶17192037**
JMA II 10 21 12 11.5–.10 29.33N 129.99E 53–4 3.4
IDC II 10 21 12 13.8–1.4 29.28N 129.86E 68–13 3.6,3.4
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=15.6km s-min=4.3km az=21.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=8.4km az=107.0.
ISC II 11 12 27 45.5–1.9 26.96N–.06 126.80E–.06 7–12 3.5b 20 1-89
IDC II 11 12 27 44.5–1.1 26.93N 126.78E 0 3.9s,3.9 **¶600528122**
JMA II 11 12 27 45.5–.20 27.00N 126.73E 21–3 3.1,3.9
ISCJB II 11 12 27 46.0–1.4 26.97N–.06 126.74E–.06 22–10 4.1s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC II 13 05 30 47.6–1.5 28.58N–.04 128.26E–.06 7–10 4.0b,3.3s 38 1-76
NIED II 13 05 30 00 28.60N 128.20E 5 4.5W,3.3s **¶16358602**
ISCJB II 13 05 30 46.3–2.1 28.65N–.03 128.16E–.05 6–14 4.0b,3.5s
JMA II 13 05 30 46.9–.30 28.65N 128.17E 15–4 4.1,3.5s
IDC II 13 05 30 47.2–.69 28.61N 128.12E 0 3.9,3.8
NEIC II 13 05 30 50.8–3.6 28.55N 128.06E 24–28 4.3b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S132.00000°,δ21.00000°,λ3.00000°. NP2:ϕ_S39.00000°,δ89.00000°,λ111.00000°. M$_0$5.71000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.7km az=160.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=23.9km s-min=12.9km az=78.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=9.3km az=83.0.
ISC II 15 14 12 52.1–.55 25.95N–.03 128.40E–.03 17–3 5.4s,5.4b 848 1-169
NIED II 15 14 12 00 26.00N 128.40E 11 5.1W,5.4b **¶16026141**
BJI II 15 14 12 46.0 25.73N 128.53E 5 5.6b,5.4s
IDC II 15 14 12 49.5–.34 25.95N 128.34E 0 5.0,5.0
NEIC II 15 14 12 50.4–.99 25.91N 128.29E 4–6 5.4b,5.0
GCMT II 15 14 12 50.4–.30 25.90N 128.27E 13–1 5.2W,5.0
ISCJB II 15 14 12 50.2–.09 25.92N–.01 128.34E–.01 10 5.4s,5.2b
JMA II 15 14 12 52.8–.30 25.96N 128.44E 41–4 5.4,5.2b
MOS II 15 14 12 55.4–1.1 26.34N 128.25E 33 5.6b,5.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S74.00000°,δ17.00000°,λ132.00000°. NP2:ϕ_S211.00000°,δ77.00000°,λ78.00000°. M$_0$5.77000×10^{16}
IDC Error ellipse: s-maj=11.9km s-min=8.8km az=86.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=2.5km az=128.0. Felt [III] on Okinawa.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c15; s58,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M$_{rr}$-3.55±.40 M$_{\theta\theta}$1.45±.23; M$_{\phi\phi}$2.10±.25; M$_{r\theta}$1.76±.53; M$_{\theta\phi}$1.83±.14; M$_{\phi r}$5.13±.93; Best double couple: NP1:ϕ_S203.00000°,δ74.00000°,λ-100.00000°. NP2:ϕ_S55.00000°,δ19.00000°,λ-60.00000°. Principal axes: T 6.3770,Plg28.0000°,Azm301.0000°; N 0.2490,Plg9.0000°,Azm206.0000°; P -6.6270,Plg60.0000°,Azm99.0000° M$_0$6.50200×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=143.6.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.2km az=97.5.
ISC II 15 14 16 54.9–1.8 25.91N–.05 128.44E–.04 17–11 4.4b 61 1-93
IDC II 15 14 16 52.5–.56 25.93N 128.32E 0 4.3,4.3b **¶16158781**
ISCJB II 15 14 16 54.9–.87 25.93N–.04 128.50E–.04 30–5 4.3b,4.3b
NEIC II 15 14 16 54.6–1.6 25.94N 128.34E 13–9 4.8b,4.3b
JMA II 15 14 16 55.6–.40 25.93N 128.44E 40–5 4.0,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=12.4km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.6km az=30.8.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.9km az=111.0.
JMA Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
ISC II 15 17 23 53.3–.88 25.96N–.04 128.38E–.03 29–5 4.6b,4.3s 230 1-150
NIED II 15 17 23 00 25.90N 128.50E 17 4.6W,4.3s **¶16026453**
BJI II 15 17 23 47.2 25.72N 128.53E 16 4.9b,4.6s
IDC II 15 17 23 48.8–.48 25.91N 128.32E 0 4.3,4.3b
NEIC II 15 17 23 50.9–1.5 25.95N 128.31E 13–9 4.8b,4.3b
ISCJB II 15 17 23 50.4–.62 25.90N–.02 128.42E–.03 24–4 4.6b,4.2s
JMA II 15 17 23 51.6–.30 25.94N 128.47E 42 4.6,4.2s
MOS II 15 17 23 51.8–1.3 25.95N 128.39E 33 4.7b,4.2s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S221.00000°,δ38.00000°,λ86.00000°. NP2:ϕ_S46.00000°,δ52.00000°,λ93.00000°. M$_0$7.67000×10^{15}

IDC Error ellipse: s-maj=16.1km s-min=10.8km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.7km az=129.0. Felt [II] at Chatan. Also felt at Gushikawa, Naha, Okinawa and Yomitan. Recorded [1 JMA] on Okinawa.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=137.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=5.8km az=98.5.

ISC	**II**	**16 14 35 28.9–1.8**	**26.00N–.07**	**128.39E–.06**	**27–13**	**3.3b**	**26**	**1-50**
IDC	II	16 14 35 27.8–3.4	25.46N	127.31E	0	3.5,3.4		**¶17192369**
JMA	II	16 14 35 29.0–.20	26.01N	128.38E	44–3	3.0,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=206.7km s-min=22.8km az=65.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.

ISC	**II**	**16 23 45 12.2–.26**	**25.94N–.03**	**128.42E–.03**	**21–2**	**5.5b,5.0s**	**1253**	**1-175**
NIED	II	16 23 45 00	26.00N	128.50E	17	5.1W,5.0s		**¶16029824**
BJI	II	16 23 45 04.7	25.73N	128.64E	5	5.3,5.3s		
ISCJB	II	16 23 45 09.0–.08	25.91N–.01	128.33E–.01	6	5.4b,5.0s		
IDC	II	16 23 45 08.8–.28	25.92N	128.33E	0	5.3,5.3b		
NEIC	II	16 23 45 10.4–1.0	25.91N	128.28E	7–6	5.5b,5.3b		
GCMT	II	16 23 45 10.4–.30	25.88N	128.55E	21–1	5.2W,5.3b		
MOS	II	16 23 45 12.9–1.1	25.97N	128.33E	33	5.7b,5.1s		
JMA	II	16 23 45 12.7–.30	25.97N	128.42E	46–5	5.3,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s190.00000°,δ32.00000°,λ52.00000°. NP2:ϕ_s53.00000°,δ66.00000°,λ111.00000°. $M_0$5.72000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=135.9.
IDC Error ellipse: s-maj=12.5km s-min=7.9km az=72.0.
NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.5km az=118.0. Felt [III] at Ishikawa and [II] at Chatan, Ginowan, Naha, Okinawa and Yomitan. Also felt at Gushikawa and Urasoe. Recorded [2 JMA] on Okinawa and in the Kerama-retto and [1 JMA] on Aguni-jima.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c61; s57,c73; Duration: 1π0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.84±.31 $M_{\theta\theta}$-1.32±.18; $M_{\phi\phi}$-3.52±.22; $M_{r\theta}$4.48±.46; $M_{\theta\phi}$-1.18±.10; $M_{\phi r}$4.97±.52; Best double couple: NP1:ϕ_s38.00000°,δ73.00000°,λ96.00000°. NP2:ϕ_s197.00000°,δ18.00000°,λ69.00000°. Principal axes:
T 8.5280,Plg61.0000°,Azm318.0000°; N -1.0410,Plg6.0000°,Azm217.0000°
; P -7.4880,Plg28.0000°,Azm123.0000° $M_0$8.00800×10^{16}
MOS Error ellipse: s-maj=6.7km s-min=3.8km az=106.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.

ISC	**II**	**17 17 33 25.7–2.3**	**25.91N–.05**	**128.47E–.04**	**17–13**	**3.8b**	**51**	**1-80**
ISCJB	II	17 17 33 25.2–.86	25.88N–.04	128.48E–.04	28–6	3.8b		**¶16168868**
JMA	II	17 17 33 26.3–.30	25.93N	128.47E	43–5	3.3		
IDC	II	17 17 33 30.1–2.9	25.99N	128.44E	46–28	3.8,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=136.3.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=15.4km az=83.0.

ISC	**II**	**20 11 43 26.4–1.7**	**26.24N–.07**	**126.28E–.06**	**17–11**	**3.8b**	**37**	**0-79**
NIED	II	20 11 43 00	26.30N	126.20E	5	4.1W		**¶17192582**
ISCJB	II	20 11 43 26.0–.98	26.33N–.05	126.20E–.05	22–8	3.8b,2.8s		
JMA	II	20 11 43 25.5–.20	26.31N	126.20E	17–2	3.8,2.8s		
IDC	II	20 11 43 34.0–3.4	26.30N	126.07E	82–32	3.8,3.6		

ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s257.00000°,δ52.00000°,λ-46.00000°. NP2:ϕ_s20.00000°,δ56.00000°,λ-131.00000°. $M_0$1.53000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=4.0km az=136.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=28.5km s-min=16.0km az=69.0.

ISC	**II**	**21 17 25 57.8–1.6**	**27.61N–.05**	**130.31E–.06**	**63–26**	**3.2b**	**23**	**1-51**
IDC	II	21 17 25 46.6–7.1	28.66N	129.29E	0	3.5,3.3		**¶17192646**
ISCJB	II	21 17 25 57.8–.66	27.60N–.04	130.27E–.05	57–13	3.3s,3.2b		
JMA	II	21 17 25 58.0–.20	27.63N	130.24E	71	3.0,3.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=335.3km s-min=29.5km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.2km az=27.5.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.

ISC	**II**	**22 04 56 19.8–.44**	**26.39N–.03**	**128.90E–.03**	**20–2**	**5.3b,4.8s**	**734**	**1-169**
NIED	II	22 04 56 00	26.30N	129.00E	11	5.0W,4.8s		**¶16057298**
ISCJB	II	22 04 56 16.7–.73	26.46N–.02	128.73E–.02	5–4	5.1b,4.7s		
IDC	II	22 04 56 16.8–.40	26.46N	128.81E	0	5.0,4.9		
BJI	II	22 04 56 17.1	26.31N	128.96E	27	5.2s,5.1		
JMA	II	22 04 56 18.9–.20	26.36N	128.95E	33–4	5.2,5.1		
NEIC	II	22 04 56 19.7–1.1	26.42N	128.71E	16–6	5.3b,5.1W		
MOS	II	22 04 56 19.0–1.1	26.45N	128.74E	23	5.5b,5.1s		
GCMT	II	22 04 56 20.0–.30	26.32N	128.84E	20–0	5.0W,5.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ46.00000°,λ108.00000°. NP2:ϕ_s27.00000°,δ47.00000°,λ72.00000°. $M_0$3.10000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.4km az=145.2.
IDC Error ellipse: s-maj=13.3km s-min=10.7km az=93.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.1km az=135.0. Felt [II] at Chatan, Okinawa. Also felt at Nago, Naha, Urasoe and Yomitan. Recorded [2 JMA] on Okinawa and Yoron-jima. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}5.28 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-5.09 $M_{r\theta}$1.07 $M_{\theta\phi}$-1.91 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s191.00000°,δ39.00000°,λ78.00000°. NP2:ϕ_s27.00000°,δ52.00000°,λ100.00000°. Principal axes:
T 5.5100,Plg80.0000°,Azm341.0000°; N 0.3700,Plg8.0000°,Azm201.0000°
; P -5.8900,Plg6.0000°,Azm110.0000° $M_0$5.70000×10^{16}
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=108.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c58; s86,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.76±.19 $M_{\theta\theta}$-1.36±.11; $M_{\phi\phi}$-2.39±.13; $M_{r\theta}$2.03±.23; $M_{\theta\phi}$-1.53±.07; $M_{\phi r}$1.65±.23; Best double couple: NP1:ϕ_s44.00000°,δ63.00000°,λ97.00000°. NP2:ϕ_s209.00000°,δ28.00000°,λ76.00000°. Principal axes:
T 4.6400,Plg71.0000°,Azm330.0000°; N -0.3370,Plg6.0000°,Azm221.0000°
; P -4.2920,Plg18.0000°,Azm129.0000° $M_0$4.46600×10^{16}

ISC	**II**	**22 05 28 23.1–.38**	**26.48N–.04**	**128.78E–.04**	**39–2**	**4.6b,4.2s**	**243**	**1-98**
NIED	II	22 05 28 00	26.40N	129.00E	20	4.7W,4.2s		**¶16100864**
IDC	II	22 05 28 16.4–.51	26.45N	128.85E	0	4.4,4.3		
MOS	II	22 05 28 17.8–1.3	26.40N	128.85E	17	4.9b,4.1s		
BJI	II	22 05 28 18.1	26.28N	129.05E	36	4.7b,4.6s		
JMA	II	22 05 28 18.9–.30	26.36N	128.94E	28–4	4.7,4.6s		
ISCJB	II	22 05 28 19.3–.68	26.40N–.03	128.87E–.03	28–4	4.5b,4.1s		
NEIC	II	22 05 28 22.9–.81	26.48N	128.75E	36–7	4.8b,4.1s		

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s202.00000°,δ32.00000°,λ57.00000°. NP2:ϕ_s59.00000°,δ64.00000°,λ109.00000°. $M_0$1.21000×10^{16}
IDC Error ellipse: s-maj=16.8km s-min=12.2km az=72.0.
MOS Error ellipse: s-maj=10.5km s-min=5.5km az=104.2.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.4km az=139.7.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.9km az=121.0. Felt on Okinawa. Recorded [1 JMA] on Okinawa.

JMA	**II**	**22 06 15 01.4–.20**	**26.32N**	**128.93E**	**30–4**	**2.3**	
							¶600531533

JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

JMA	**II**	**22 14 12 09.2–.10**	**26.37N**	**128.97E**	**36–3**		
							¶600531647

JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISC	**II**	**25 21 27 22.5–1.8**	**28.23N–.04**	**130.48E–.06**	**26–14**	**3.4b**	**38**	**0-52**
IDC	II	25 21 27 19.9–1.4	28.23N	130.37E	0	3.7s,3.7		**¶17192866**
JMA	II	25 21 27 20.1–.20	28.17N	130.63E	46–2	3.6,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=41.9km s-min=21.0km az=83.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.

ISC	**II**	**28 20 31 39.7–1.9**	**26.05N–.05**	**128.65E–.05**	**19–7**	**3.6b**	**32**	**1-77**
IDC	II	28 20 31 37.5–1.1	26.13N	128.54E	0	3.7,3.7b		**¶17193016**
ISCJB	II	28 20 31 39.8–1.2	26.07N–.04	128.67E–.04	33–9	3.8s,3.5b		
JMA	II	28 20 31 40.1–.40	26.06N	128.63E	36–5	3.4,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=36.1km s-min=14.3km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.4km az=160.4.
JMA Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.

ISC	**III**	**01 19 14 44.9–1.4**	**26.38N–.05**	**128.92E–.04**	**16–9**	**3.3b**	**25**	**1-73**
JMA	III	01 19 14 46.4–.20	26.37N	128.92E	32–4	3.0		**¶17193091**
IDC	III	01 19 14 48.6–4.4	26.44N	128.73E	34–35	3.4,3.4		

ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=30.9km s-min=23.3km az=62.0.

ISC	**III**	**02 03 08 10.1–.79**	**29.31N–.04**	**130.38E–.05**	**44–6**	**4.5b,3.8s**	**145**	**1-115**
NIED	III	02 03 08 00	29.30N	130.50E	23	4.3W,3.8s		**¶16170172**
IDC	III	02 03 08 03.7–.74	29.36N	130.32E	0	4.3,4.2		
BJI	III	02 03 08 06.7	29.04N	130.56E	42	4.8b,4.4b		
MOS	III	02 03 08 07.4–.91	29.26N	130.46E	42	4.7b,4.4b		
JMA	III	02 03 08 08.1–.30	29.25N	130.51E	27–4	4.1,4.4b		
ISCJB	III	02 03 08 08.9–.45	29.27N–.03	130.45E–.05	54–3	4.4b,3.7s		
NEIC	III	02 03 08 10.4–.84	29.31N	130.36E	49–7	4.4b,3.7s		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s219.00000°,δ26.00000°,λ85.00000°. NP2:ϕ_s45.00000°,δ64.00000°,λ92.00000°. $M_0$2.91000×10^{15}
IDC Error ellipse: s-maj=18.5km s-min=16.7km az=126.0.
MOS Error ellipse: s-maj=11.1km s-min=5.8km az=105.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=7.2km s-min=3.9km az=26.9.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=7.2km az=141.0. Recorded [1 JMA] on Akuseki-jima, Nakano-shima and Suwanose-jima.

ISC	**III**	**02 08 50 14.5–1.0**	**29.18N–.05**	**130.5E–.10**	**40**	**3.7b**	**20**	**1-71**
IDC	III	02 08 50 07.5–2.4	29.46N	130.96E	0	3.7,3.6b		**¶17193117**
ISCJB	III	02 08 50 12.9–.71	29.13N–.04	130.60E–.09	40	3.8s,3.6b		
JMA	III	02 08 50 13.7–.10	29.19N	130.43E	66	3.4,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=130.6km s-min=19.5km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.3km az=13.3.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.

ISC	**III**	**03 15 52 19.5–.66**	**29.25N–.04**	**130.55E–.08**	**34**	**4.2b**	**53**	**1-78**
IDC	III	03 15 52 14.8–.81	29.32N	130.41E	0	3.9,3.8		**¶16400356**
ISCJB	III	03 15 52 17.4–.48	29.22N–.04	130.71E–.06	34	3.9b,3.8		
JMA	III	03 15 52 18.1–.10	29.21N	130.70E	34	3.3,3.8		
NEIC	III	03 15 52 20.2–.90	29.27N	130.40E	38–9	4.6b,3.8		

ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=18.0km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=4.1km az=28.2.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.7km az=112.0.

ISC	**III**	**04 15 45 53.5–1.1**	**25.6N–.10**	**126.3E–.10**	**53–11**	**3.8b**	**35**	**1-80**
IDC	III	04 15 45 49.1–6.9	24.87N	126.67E	63–46	4.0,3.8		**¶17193239**
JMA	III	04 15 45 49.3–.40	25.38N	126.48E	2–4	3.8,3.8		
ISCJB	III	04 15 45 51.6–.66	25.43N–.10	126.42E–.10	67–5	3.8b,3.8		

ISC Event type ke.
ISCJB Event type ke.

IDC	**III**	**05 18 43 10.5–1.6**	**24.68N**	**126.27E**	**0**	**3.6,3.4**	
							¶17193303

IDC Error ellipse: s-maj=37.6km s-min=31.0km az=126.0.

ISC	**III**	**06 14 08 58.9–.63**	**28.62N–.04**	**129.22E–.06**	**78–5**	**3.6b**	**46**	**0-76**
ISCJB	III	06 14 08 57.9–.33	28.65N–.03	129.19E–.06	82–4	3.5b		**¶17193356**
JMA	III	06 14 08 58.7–.20	28.66N	129.20E	70–3	3.8		
IDC	III	06 14 08 59.2–.66	28.61N	129.16E	86–7	3.7,3.5		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=3.7km az=28.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=6.9km az=108.0.

ISC	**III**	**07 09 49 32.4–.70**	**29.05N–.03**	**129.55E–.03**	**13–4**	**4.7b,3.9s**	**187**	**0-150**
NIED	III	07 09 49 00	29.10N	129.50E	5	4.6W,3.9s		**¶16202802**
IDC	III	07 09 49 29.7–.50	29.09N	129.42E	0	4.3,4.1		
ISCJB	III	07 09 49 32.1–.46	29.09N–.02	129.47E–.03	18–3	4.6b,3.9s		
MOS	III	07 09 49 32.8–1.3	29.12N	129.45E	27	4.8b,3.9s		
JMA	III	07 09 49 32.3–.10	29.09N	129.46E	29	4.5,3.9s		
BJI	III	07 09 49 33.0	28.93N	129.31E	19	4.7b,4.5b		
NEIC	III	07 09 49 34.6–1.9	29.07N	129.32E	27–13	4.9b,4.5b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s110.00000°,δ27.00000°,λ-97.00000°. NP2:ϕ_s298.00000°,δ63.00000°,λ-87.00000°. $M_0$9.66000×10^{15}
IDC Error ellipse: s-maj=16.8km s-min=12.4km az=95.0.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.8km az=26.8.
MOS Error ellipse: s-maj=11.1km s-min=6.5km az=96.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.9km az=102.0. Recorded [3 JMA] on Akuseki-jima.

ISC	**III**	**07 10 13 05.5–.63**	**29.09N–.02**	**129.49E–.03**	**30–4**	**4.9b,4.8s**	**406**	**0-159**
NIED	III	07 10 13 00	29.10N	129.40E	5	5.2W,4.8s		**¶16202803**
IDC	III	07 10 13 00.3–.49	29.13N	129.41E	0	4.7,4.6		
JMA	III	07 10 13 02.6–.10	29.09N	129.46E	27–5	5.1,4.6		
ISCJB	III	07 10 13 03.1–.40	29.09N–.02	129.45E–.02	20–3	4.8b,4.7s		
MOS	III	07 10 13 04.7–1.2	29.13N	129.41E	34	5.0b,4.7s		
GCMT	III	07 10 13 07.5–.10	29.06N	129.43E	12	5.2W,4.7s		
NEIC	III	07 10 13 07.5–.51	29.09N	129.42E	44–4	5.0b,4.7s		
BJI	III	07 10 13 07.0	29.10N	129.40E	46	5.3s,5.1b		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s107.00000°,δ32.00000°,λ-114.00000°. NP2:ϕ_s314.00000°,δ61.00000°,λ-76.00000°. $M_0$7.47000×10^{16}
IDC Error ellipse: s-maj=17.3km s-min=12.7km az=74.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=29.5.
MOS Error ellipse: s-maj=7.4km s-min=4.7km az=96.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c128; s117,c207; Duration: 1π0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.67±.01 $M_{\theta\theta}$0.72±.01; $M_{\phi\phi}$-0.04±.01; $M_{r\theta}$-0.11±.03; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$0.27±.04; Best double couple: NP1:ϕ_s132.00000°,δ55.00000°,λ-66.00000°. NP2:ϕ_s273.00000°,δ41.00000°,λ-121.00000°. Principal axes:
T 0.9210,Plg7.0000°,Azm205.0000°; N -0.1480,Plg20.0000°,Azm297.0000°
; P -0.7730,Plg69.0000°,Azm95.0000° $M_0$0.84700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=129.0. Recorded [3 JMA] on Akuseki-jima.

JMA	**III**	**07 13 44 00.1–.10**	**29.08N**	**129.46E**	**23–5**	**3.5**	
							¶602650480

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.

JMA	**III**	**11 07 06 31.9–.30**	**29.20N**	**129.13E**	**8–1**	**3.6**	
							¶602654473

JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.

ISC	**III**	**11 14 33 56.6–2.1**	**26.04N–.04**	**128.72E–.04**	**10–12**	**4.6b**	**104**	**1-86**
IDC	III	11 14 33 54.3–.76	25.87N	128.77E	0	4.5,4.4		**¶17193920**
ISCJB	III	11 14 33 57.6–.89	26.02N–.03	128.74E–.03	30–6	4.5b,4.4		
JMA	III	11 14 33 58.0–.30	26.06N	128.79E	35	4.4,4.4		
NEIC	III	11 14 33 59.4–.51	25.91N	128.76E	35	4.8b,4.4		

ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=16.7km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.5km az=141.4.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.7km az=137.0.

JMA	**III**	**13 07 00 20.6–.10**	**29.08N**	**129.45E**	**25–4**	**3.8**	
							¶602658311

JMA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.

JMA	**III**	**13 11 53 55.2**	**27.45N**	**128.91E**	**39–1**	**1.6**	
							¶602657576

JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.

ISC	**III**	**14 20 56 18.5–.75**	**29.01N–.04**	**129.59E–.06**	**21**	**3.6b**	**22**	**0-90**
IDC	III	14 20 56 16.3–.93	28.92N	129.88E	0	3.7,3.5		**¶17195256**
ISCJB	III	14 20 56 19.0–.42	29.08N–.03	129.50E–.06	21	3.5b,3.5		
JMA	III	14 20 56 19.0–.10	29.09N	129.46E	27	3.5,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=31.3km s-min=16.7km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.9km az=14.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISC III 15 16 18 23.8–.68 28.16N–.04 128.84E–.06 71–6 3.9b 59 0-84
ISCJB III 15 16 18 23.3–.28 28.15N–.04 128.89E–.06 83–3 3.9b **¶17196181**
IDC III 15 16 18 23.8–1.1 28.13N 128.80E 72–10 4.1,3.9
JMA III 15 16 18 24.6–.10 28.19N 128.80E 63–2 4.1,3.9
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.2km s-min=3.6km az=32.5.
IDC Error ellipse: s-maj=16.3km s-min=9.8km az=87.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC III 20 23 57 03.9–1.5 29.07N–.03 129.52E–.07 11–10 3.3b 27 0-49
NIED III 20 23 57 00 29.10N 129.30E 8 3.9W **¶17197581**
IDC III 20 23 57 03.3–1.5 29.07N 129.38E 0 3.7,3.7L
JMA III 20 23 57 04.1–.10 29.07N 129.44E 22–4 3.7,3.7L
ISCJB III 20 23 57 04.7–.46 29.09N–.02 129.42E–.05 24–4 3.5s,3.4b
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s81.00000°,δ38.00000°,λ-154.00000°. NP2:ϕ_s329.00000°,δ74.00000°,λ-55.00000°. $M_0$8.32000×10^{14}
JMA Event type fe.
ISCJB Event type fe.
JMA III 21 00 33 10.5–.50 25.66N 126.38E 1–5 3.9
¶602681842
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC III 21 09 33 46.5–.55 28.39N–.05 128.26E–.06 143–5 3.9b 66 1-123
NIED III 21 09 33 00 28.40N 128.20E 140 4.3W **¶17197656**
ISCJB III 21 09 33 45.4–.29 28.43N–.04 128.21E–.06 143–4 3.9b
JMA III 21 09 33 47.0–.20 28.45N 128.20E 128–3 4.1
IDC III 21 09 33 47.2–.67 28.44N 128.14E 148–5 4.2,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s279.00000°,δ37.00000°,λ-117.00000°. NP2:ϕ_s132.00000°,δ57.00000°,λ-71.00000°. $M_0$3.06000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=4.1km az=32.3.
JMA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=13.6km s-min=10.2km az=83.0.
ISC III 23 11 31 22.3–1.0 27.46N–.05 128.63E–.07 39–2 3.8b 38 0-77
NIED III 23 11 31 00 27.50N 128.60E 47 4.1W **¶17198181**
ISCJB III 23 11 31 21.6–.34 27.47N–.05 128.64E–.07 50–4 3.7b,2.9s
IDC III 23 11 31 22.5–1.1 27.43N 128.45E 47–13 3.9,3.9L
JMA III 23 11 31 22.1 27.47N 128.63E 43–1 3.9,3.9L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s200.00000°,δ49.00000°,λ36.00000°. NP2:ϕ_s85.00000°,δ63.00000°,λ133.00000°. $M_0$1.84000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=13.0km s-min=3.3km az=36.8.
IDC Error ellipse: s-maj=52.5km s-min=15.6km az=98.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC III 23 22 27 32.2–.52 28.33N–.04 128.88E–.04 82–5 4.2b 116 0-151
NIED III 23 22 27 00 28.40N 128.80E 74 4.4W **¶16357303**
BJI III 23 22 27 29.2 28.08N 128.09E 90 4.5b,4.4b
ISCJB III 23 22 27 31.6–.22 28.32N–.03 128.95E–.04 92–2 4.3b,4.4b
NEIC III 23 22 27 32.7–.66 28.22N 128.85E 86–7 4.7b,4.4b
JMA III 23 22 27 32.5–.20 28.41N 128.79E 71–3 4.2,4.4b
IDC III 23 22 27 33.1–.76 28.33N 128.79E 92–8 4.1,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s171.00000°,δ51.00000°,λ-36.00000°. NP2:ϕ_s285.00000°,δ63.00000°,λ-135.00000°. $M_0$4.21000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=3.1km az=30.4.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=6.8km az=121.0. Recorded [2 JMA] on Amami-oshima, Kikaiga-shima, Tokuno-shima and Yoro-shima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=7.6km az=102.0.
JMA III 23 23 03 19.5–.10 29.10N 129.43E 36 3.6
NIED III 23 23 03 00 29.10N 129.50E 5 3.7W **¶600564609**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s105.00000°,δ34.00000°,λ-103.00000°. NP2:ϕ_s301.00000°,δ57.00000°,λ-81.00000°. $M_0$3.46000×10^{14}
ISC III 25 17 54 34.1–.78 28.40N–.04 129.55E–.05 43–6 3.7b 43 0-77
ISCJB III 25 17 54 33.7–.36 28.39N–.03 129.56E–.06 55–3 3.7b **¶17198539**
JMA III 25 17 54 34.6–.10 28.43N 129.54E 40–2 3.9
IDC III 25 17 54 36.7–3.3 28.43N 129.47E 70–29 3.8,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=9.2km s-min=3.5km az=30.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=16.4km az=83.0.
ISC III 31 20 37 42.3–1.4 29.20N–.05 130.49E–.08 31–11 30 1-77
IDC III 31 20 37 36.4–4.5 29.09N 130.70E 0 3.4,3.4b **¶17199351**
JMA III 31 20 37 42.4–.10 29.23N 130.41E 65–3 2.9,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=101.7km s-min=27.5km az=114.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC IV 05 22 31 31.1–1.3 29.10N–.03 129.51E–.05 13–9 3.4b 25 0-75
NIED IV 05 22 31 00 29.10N 129.40E 5 3.9W **¶17199935**
IDC IV 05 22 31 29.4–1.4 29.09N 129.55E 0 3.7,3.5
ISCJB IV 05 22 31 31.8–.48 29.10N–.03 129.47E–.05 27–4 3.4b,2.8s
JMA IV 05 22 31 31.3–.10 29.12N 129.44E 34 3.5,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s121.00000°,δ22.00000°,λ-107.00000°. NP2:ϕ_s320.00000°,δ69.00000°,λ-83.00000°. $M_0$9.09000×10^{14}
IDC Error ellipse: s-maj=43.0km s-min=24.8km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.2km az=16.9.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 06 05 19 59.8–1.2 29.09N–.03 129.54E–.06 15–8 3.5b 27 0-75
NIED IV 06 05 19 00 29.10N 129.40E 5 3.9W **¶17199968**
ISCJB IV 06 05 19 60.0–.46 29.11N–.02 129.48E–.05 27–4 3.4b,2.7s
JMA IV 06 05 19 59.4–.10 29.14N 129.42E 36 3.5,2.7s
IDC IV 06 05 20 06.7–2.4 29.11N 129.54E 69–24 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s113.00000°,δ25.00000°,λ-94.00000°. NP2:ϕ_s297.00000°,δ65.00000°,λ-88.00000°. $M_0$7.26000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.6km az=19.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=33.4km s-min=20.0km az=87.0.
JMA IV 11 21 48 17.5–.10 27.23N 130.31E 61 3.7
¶600584200
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 14 03 39 26.4–.20 26.23N 127.26E 35–2 3.7
¶600587224
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
JMA IV 14 13 02 25.5–.20 27.19N 127.46E 90–2 3.5
¶600587563
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
JMA IV 19 02 22 50.5–.30 28.09N 128.05E 15–3 2.9
¶600592212
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 19 04 14 36.6–.30 28.10N 128.02E 10–3 3.8
NIED IV 19 04 14 00 28.10N 128.00E 5 4.4W **¶600592285**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s58.00000°,δ63.00000°,λ-154.00000°. NP2:ϕ_s315.00000°,δ67.00000°,λ-29.00000°. $M_0$3.96000×10^{15}
ISC IV 19 05 05 28.0–.36 27.98N–.03 128.09E–.03 22–3 4.5b,4.2s 174 1-99
NIED IV 19 05 05 00 28.10N 128.00E 5 4.9W,4.2s **¶16449044**
JMA IV 19 05 05 25.0–.20 28.11N 128.04E 16–3 4.7,4.2s
BJI IV 19 05 05 25.6 27.85N 127.99E 20 4.8b,4.8s
ISCJB IV 19 05 05 26.1–.64 28.07N–.03 128.05E–.03 22–5 4.5b,4.2s
MOS IV 19 05 05 27.5–1.1 28.05N 128.01E 33 4.7b,4.0s
NEIC IV 19 05 05 28.8–.32 28.11N 128.24E 35 4.8b,4.0s
IDC IV 19 05 05 33.1–2.5 28.12N 128.09E 75–23 4.2,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ35.00000°,λ-15.00000°. NP2:ϕ_s47.00000°,δ82.00000°,λ-124.00000°. $M_0$2.35000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.8km az=39.1.
MOS Error ellipse: s-maj=9.4km s-min=6.0km az=106.6.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=4.8km az=100.0. Recorded [1 JMA] on Tokuno-shima.
IDC Error ellipse: s-maj=18.1km s-min=11.8km az=71.0.
JMA IV 19 05 32 36.4–.20 28.10N 128.06E 14–4 2.4
¶602945438
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 19 11 43 18.9–.10 28.10N 128.04E 17–2 2.5
¶600592697
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 19 12 11 21.5–.30 28.09N 128.05E 10–3 3.5
NIED IV 19 12 11 00 28.10N 128.10E 5 4.1W **¶600592726**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ32.00000°,λ-5.00000°. NP2:ϕ_s39.00000°,δ88.00000°,λ-122.00000°. $M_0$1.49000×10^{15}
ISC IV 19 13 06 07.7–1.5 28.02N–.05 128.03E–.05 6–10 3.8b,3.5s 29 1-77
NIED IV 19 13 06 00 28.10N 128.10E 5 4.3W,3.5s **¶600592798**
JMA IV 19 13 06 08.7–.20 28.08N 128.06E 16–2 4.0,3.5s
IDC IV 19 13 06 15.8–3.2 28.04N 127.91E 69–31 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ29.00000°,λ-18.00000°. NP2:ϕ_s39.00000°,δ81.00000°,λ-118.00000°. $M_0$3.25000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=15.8km az=72.0.
ISC IV 19 13 19 45.5–.79 27.88N–.05 128.27E–.06 35 3.5b,3.0s 23 1-77
NIED IV 19 13 19 00 28.10N 128.00E 5 4.1W,3.0s **¶17201504**
JMA IV 19 13 19 40.4–.30 28.11N 128.04E 12–4 3.6,3.0s
ISCJB IV 19 13 19 44.3–.48 27.96N–.04 128.17E–.05 33 3.5b,2.9s
IDC IV 19 13 19 50.3–4.3 28.04N 128.23E 82–44 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ53.00000°,λ-28.00000°. NP2:ϕ_s50.00000°,δ68.00000°,λ-140.00000°. $M_0$1.44000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=35.1.
IDC Error ellipse: s-maj=37.0km s-min=20.0km az=72.0.
ISC IV 19 13 47 14.3–2.2 28.08N–.05 128.08E–.05 4–14 3.4b 22 1-77
NIED IV 19 13 47 00 28.10N 128.00E 5 3.9W **¶600592826**
JMA IV 19 13 47 14.9–.20 28.10N 128.04E 11–2 3.6
ISCJB IV 19 13 47 15.7–1.2 28.10N–.05 128.05E–.06 22–9 3.4b,2.6s
IDC IV 19 13 47 24.0–4.4 28.09N 128.15E 86–44 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s127.00000°,δ42.00000°,λ-10.00000°. NP2:ϕ_s225.00000°,δ84.00000°,λ-132.00000°. $M_0$8.67000×10^{14}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.7km az=38.4.
IDC Error ellipse: s-maj=42.7km s-min=19.5km az=68.0.
JMA IV 19 14 11 12.1–.20 28.10N 128.06E 16–2 3.5
¶600592841
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 19 14 35 36.3–1.8 28.06N–.05 128.05E–.06 5–12 3.6b,3.4s 22 1-78
NIED IV 19 14 35 00 28.10N 128.00E 5 4.4W,3.4s **¶17201509**
ISCJB IV 19 14 35 36.6–2.3 28.07N–.03 128.04E–.04 10–16 3.6b,3.4s
JMA IV 19 14 35 36.1–.20 28.08N 128.03E 10–3 3.8,3.4s
IDC IV 19 14 35 48.2–3.4 28.32N 128.04E 95–34 3.7,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s303.00000°,δ38.00000°,λ-19.00000°. NP2:ϕ_s48.00000°,δ79.00000°,λ-126.00000°. $M_0$3.92000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=12.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=34.7km s-min=17.2km az=71.0.
JMA IV 19 18 01 00.5–.10 29.51N 130.11E 59–2 3.5
¶600593004
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC IV 19 23 33 28.5–2.1 28.07N–.05 128.12E–.07 11–13 3.3b 21 1-77
ISCJB IV 19 23 33 27.1–2.4 28.10N–.03 128.06E–.05 7–16 3.4b,3.0s **¶600593269**
JMA IV 19 23 33 27.8–.20 28.10N 128.07E 14–2 3.4,3.0s
IDC IV 19 23 33 36.3–4.5 28.12N 127.97E 64–44 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.8km az=26.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=39.9km s-min=20.6km az=72.0.
JMA IV 20 00 56 40.0–.30 28.10N 128.07E 19–4 2.6
¶600593316
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
JMA IV 20 09 44 59.0–.20 28.08N 128.10E 11–3 3.8
NIED IV 20 09 44 00 28.10N 128.10E 5 3.9W **¶600593651**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ60.00000°,λ-165.00000°. NP2:ϕ_s100.00000°,δ77.00000°,λ-31.00000°. $M_0$7.52000×10^{14}
ISC IV 20 13 36 39.4–1.7 28.04N–.05 128.11E–.05 4–11 3.6b,3.3s 28 1-78
NIED IV 20 13 36 00 28.10N 128.00E 5 4.4W,3.3s **¶17201620**
JMA IV 20 13 36 39.0–.20 28.10N 128.05E 21–3 3.6,3.3s
IDC IV 20 13 36 48.5–4.4 28.17N 128.01E 72–43 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s307.00000°,δ39.00000°,λ-13.00000°. NP2:ϕ_s47.00000°,δ82.00000°,λ-128.00000°. $M_0$3.98000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=39.1km s-min=20.1km az=69.0.
ISC IV 20 18 12 48.2–1.8 27.98N–.05 128.24E–.07 8–11 3.2b 19 1-52
JMA IV 20 18 12 44.6–.20 28.12N 128.00E 14–2 3.0 **¶17201633**
IDC IV 20 18 12 48.3–1.3 28.04N 128.19E 0 3.5,3.4
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=54.1km s-min=22.1km az=74.0.
ISC IV 20 22 10 19.8–.78 28.19N–.04 129.14E–.05 31–5 3.5b 40 0-76
NIED IV 20 22 10 00 28.20N 129.10E 44 3.9W **¶17201645**
ISCJB IV 20 22 10 19.5–.32 28.18N–.04 129.15E–.06 40–4 3.5b,2.7s
JMA IV 20 22 10 19.9–.10 28.13N 129.22E 31–1 3.8,2.7s
IDC IV 20 22 10 23.9–3.2 28.08N 128.86E 66–29 3.8L,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s134.00000°,δ20.00000°,λ-77.00000°. NP2:ϕ_s301.00000°,δ71.00000°,λ-95.00000°. $M_0$8.52000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.5km az=32.1.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=29.1km s-min=16.8km az=70.0.
ISC IV 21 06 08 45.4–1.8 28.06N–.05 128.06E–.07 11–12 3.6b 23 1-77
NIED IV 21 06 08 00 28.10N 128.00E 5 4.1W **¶17201678**
JMA IV 21 06 08 44.2–.30 28.09N 127.98E 11–4 3.5
IDC IV 21 06 08 51.5–1.5 27.89N 128.19E 50–20 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ50.00000°,λ-17.00000°. NP2:ϕ_s53.00000°,δ77.00000°,λ-139.00000°. $M_0$1.66000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=32.4km s-min=16.2km az=84.0.
JMA IV 21 13 03 46.3–.40 28.10N 128.06E 9–4 3.6
NIED IV 21 13 03 00 28.10N 128.10E 5 4.0W **¶600595070**
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s201.00000°,δ64.00000°,λ178.00000°. NP2:ϕ_s292.00000°,δ88.00000°,λ26.00000°. $M_0$1.20000×10^{15}
JMA IV 21 13 17 55.9–.10 28.10N 128.07E 20–2 2.4
¶600595078
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 21 14 02 27.9–1.8 28.08N–.05 128.09E–.06 6–12 3.5b 26 1-52
ISCJB IV 21 14 02 28.9–1.1 28.11N–.04 128.05E–.06 21–8 3.5b **¶17201715**
IDC IV 21 14 02 28.1–.97 27.82N 127.58E 0 3.7,3.6
JMA IV 21 14 02 28.4–.20 28.11N 128.06E 13–2 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.1km az=33.1.
IDC Error ellipse: s-maj=44.3km s-min=13.8km az=61.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 21 18 10 46.0–.20 28.11N 128.07E 17–3 2.4
¶600595367

JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 22 03 11 42.5–1.9 28.03N–.05 128.07E–.06 3–13 3.4b 21 1-68
NIED IV 22 03 11 00 28.10N 128.00E 5 3.9W **¶17201777**
ISCJB IV 22 03 11 41.0–1.5 28.08N–.04 128.02E–.05 1–9 3.5s,3.4b
JMA IV 22 03 11 41.7–.10 28.09N 128.00E 12–2 3.5,3.4b
IDC IV 22 03 11 44.8–1.3 27.95N 127.41E 0 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ76.00000°,λ172.00000°. NP2:ϕ_s295.00000°,δ82.00000°,λ14.00000°. $M_0$7.50000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.2km az=28.8.
IDC Error ellipse: s-maj=49.1km s-min=21.4km az=72.0.
ISC IV 22 03 29 30.6–2.0 28.00N–.05 128.14E–.06 3–14 3.4b 20 1-52
JMA IV 22 03 29 29.9–.10 28.09N 128.03E 17–2 3.2 **¶17201779**
ISCJB IV 22 03 29 30.9–1.4 28.05N–.06 128.06E–.07 21–10 3.4b,3.0s
IDC IV 22 03 29 31.3–1.3 27.85N 127.99E 0 3.6,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=5.4km az=40.3.
IDC Error ellipse: s-maj=53.2km s-min=21.1km az=72.0.
ISC IV 22 14 07 52.9–1.8 28.07N–.05 128.08E–.06 12–12 3.5b,3.4s 23 1-78
NIED IV 22 14 07 00 28.10N 128.10E 5 4.3W,3.4s **¶17201819**
IDC IV 22 14 07 52.4–1.1 27.81N 127.50E 0 3.7,3.6
ISCJB IV 22 14 07 53.2–1.1 28.10N–.04 128.05E–.06 21–8 3.5b,3.3s
JMA IV 22 14 07 53.4–.20 28.08N 128.07E 17–3 4.0,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s292.00000°,δ26.00000°,λ-14.00000°. NP2:ϕ_s35.00000°,δ84.00000°,λ-115.00000°. $M_0$2.85000×10^{15}
IDC Error ellipse: s-maj=46.8km s-min=15.2km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.3km az=31.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA IV 22 14 16 03.4–.20 28.10N 128.05E 15–3 3.5
NIED IV 22 14 16 00 28.10N 128.00E 5 3.8W **¶600596299**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ51.00000°,λ-163.00000°. NP2:ϕ_s295.00000°,δ77.00000°,λ-40.00000°. $M_0$5.72000×10^{14}
ISC IV 22 14 20 33.8–1.7 27.99N–.06 128.21E–.08 15–10 3.2b 17 1-52
JMA IV 22 14 20 32.5–.10 28.10N 128.04E 20–2 3.1 **¶17201820**
ISCJB IV 22 14 20 33.2–1.4 28.07N–.05 128.07E–.07 23–8 3.1b
IDC IV 22 14 20 36.4–7.9 27.17N 126.56E 0 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.2km az=37.1.
IDC Error ellipse: s-maj=419.4km s-min=27.3km az=60.0.
ISC IV 24 15 04 46.3–1.7 28.10N–.04 128.07E–.06 5–12 3.5b,3.1s 27 1-84
NIED IV 24 15 04 00 28.10N 128.00E 5 4.1W,3.1s **¶17201968**
JMA IV 24 15 04 45.9–.20 28.13N 128.02E 7–2 3.6,3.1s
IDC IV 24 15 04 46.7–.92 27.86N 127.66E 0 3.8,3.7
ISCJB IV 24 15 04 47.5–1.8 28.07N–.03 128.06E–.04 11–13 3.4b,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s305.00000°,δ49.00000°,λ-16.00000°. NP2:ϕ_s46.00000°,δ78.00000°,λ-138.00000°. $M_0$1.44000×10^{15}
ISCJB Event type ke.
ISC IV 27 15 57 23.3–1.3 29.38N–.04 130.50E–.08 45–12 3.6b 38 1-77
NIED IV 27 15 57 00 29.40N 130.50E 20 4.2W **¶17202243**
IDC IV 27 15 57 16.8–.84 29.31N 130.45E 0 3.7,3.6
ISCJB IV 27 15 57 22.3–.59 29.37N–.04 130.53E–.08 55–6 3.5b,3.2s
JMA IV 27 15 57 22.7 29.39N 130.50E 54–3 3.5,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ9.00000°,λ-177.00000°. NP2:ϕ_s202.00000°,δ90.00000°,λ-81.00000°. $M_0$2.29000×10^{15}
IDC Error ellipse: s-maj=31.5km s-min=18.2km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=3.7km az=23.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 28 17 36 18.0–1.2 29.37N–.04 130.52E–.08 42–11 4.0b,3.9s 50 1-89
NIED IV 28 17 36 00 29.30N 130.60E 32 4.4W,3.9s **¶16631213**
ISCJB IV 28 17 36 16.5–.56 29.35N–.03 130.59E–.06 49–5 3.9b,3.8s
JMA IV 28 17 36 16.4–.10 29.33N 130.56E 28 4.1,3.8s
NEIC IV 28 17 36 17.5–.73 29.37N 130.49E 36–7 4.2b,3.8s
IDC IV 28 17 36 17.0–4.4 29.38N 130.46E 32–33 3.9,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s40.00000°,δ44.00000°,λ106.00000°. NP2:ϕ_s199.00000°,δ48.00000°,λ75.00000°. $M_0$4.71000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=4.1km az=20.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.6km az=109.0.
IDC Error ellipse: s-maj=20.3km s-min=14.2km az=86.0.
ISC IV 28 18 10 22.1–.62 29.20N–.04 130.78E–.06 34 3.6b,3.6s 41 1-89
NIED IV 28 18 10 00 29.30N 130.60E 32 4.4W,3.6s **¶16505565**
IDC IV 28 18 10 18.0–.76 29.43N 130.54E 0 3.8,3.7
JMA IV 28 18 10 28.3–.20 29.32N 130.60E 13 4.0,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s69.00000°,δ44.00000°,λ127.00000°. NP2:ϕ_s202.00000°,δ56.00000°,λ59.00000°. $M_0$3.93000×10^{15}
IDC Error ellipse: s-maj=21.6km s-min=14.8km az=101.0.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
JMA IV 28 18 10 22.6–.10 29.32N 130.59E 32
¶603752400
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 28 18 37 05.0–1.1 29.38N–.05 130.46E–.08 50–11 3.6b,3.2s 37 1-77
NIED IV 28 18 37 00 29.30N 130.50E 14 4.2W,3.2s **¶17202322**
ISCJB IV 28 18 37 03.8–.57 29.36N–.04 130.50E–.08 59–6 3.6b,3.2s
JMA IV 28 18 37 03.8–.10 29.34N 130.53E 34 3.9,3.2s
IDC IV 28 18 37 04.7–1.6 29.41N 130.41E 44–16 3.6,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s335.00000°,δ12.00000°,λ-131.00000°. NP2:ϕ_s197.00000°,δ81.00000°,λ-82.00000°. $M_0$1.98000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=4.0km az=22.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=10.4km az=106.0.
JMA IV 30 22 58 03.3–.20 26.04N 128.64E 42–4 3.5
¶600603644
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 01 23 01 59.7–1.3 28.72N–.04 129.53E–.06 12–9 3.7b,3.1s 42 0-76
IDC V 01 23 01 57.4–.75 28.69N 129.59E 0 3.8,3.7 **¶17202569**
ISCJB V 01 23 02 00.5–.46 28.68N–.03 129.63E–.05 29–3 3.6b,3.2s
NIED V 01 23 02 00 28.70N 129.60E 20 4.1W,3.2s
JMA V 01 23 02 01.2–.10 28.66N 129.59E 16–3 3.9,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=13.9km az=87.0.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=3.8km az=22.1.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s108.00000°,δ24.00000°,λ-133.00000°. NP2:ϕ_s334.00000°,δ72.00000°,λ-73.00000°. $M_0$1.49000×10^{15}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA V 03 11 45 01.2–.20 29.32N 130.58E 22–3 3.5
NIED V 03 11 45 00 29.30N 130.60E 32 4.0W **¶600605702**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s43.00000°,δ32.00000°,λ-63.00000°. NP2:ϕ_s193.00000°,δ62.00000°,λ-106.00000°. $M_0$1.31000×10^{15}
ISC V 04 00 11 20.2–.77 28.68N–.06 128.65E–.08 131–8 3.4b 37 1-76
ISCJB V 04 00 11 19.4–.39 28.68N–.05 128.68E–.09 136–5 3.4b **¶17202721**
JMA V 04 00 11 20.6–.20 28.71N 128.59E 123–3 3.7
IDC V 04 00 11 20.8–1.4 28.66N 128.80E 138–14 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=4.8km az=30.3.
JMA Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=26.9km s-min=15.7km az=94.0.
ISC V 05 23 21 23.8–.39 26.16N–.02 128.62E–.02 25–2 5.5b,5.0s 1270 1-176
NIED V 05 23 21 00 26.00N 128.80E 14 5.3W,5.0s **¶16499286**
BJI V 05 23 21 19.1 26.06N 128.65E 19 5.6s,5.5
GCMT V 05 23 21 22.1–.10 25.99N 128.51E 18–0 5.3W,5.5
NEIC V 05 23 21 22.0–.00 25.93N 128.42E 15 5.3W,5.5
JMA V 05 23 21 22.4–.30 26.08N 128.67E 35 5.6,5.5
NEIC V 05 23 21 22.1–.10 26.12N 128.40E 10 5.6b,5.5W
IDC V 05 23 21 22.6–2.8 26.16N 128.51E 17–16 5.3,5.2b
ISCJB V 05 23 21 23.5–.09 26.16N–.02 128.47E–.02 28 5.5b,5.0s
MOS V 05 23 21 24.1–1.2 26.22N 128.48E 33 5.8b,5.5s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ33.00000°,λ76.00000°. NP2:ϕ_s50.00000°,δ58.00000°,λ99.00000°. $M_0$9.83000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s80,c144; s105,c226;Duration: 1$_S$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.86±.02 $M_{\theta\theta}$-0.41±.01; $M_{\phi\phi}$-0.45±.01; $M_{r\theta}$0.56±.03; $M_{\theta\phi}$-0.43±.01; $M_{\phi r}$0.52±.03; Best double couple: NP1:ϕ_s46.00000°,δ66.00000°,λ92.00000°. NP2:ϕ_s221.00000°,δ24.00000°,λ85.00000°. Principal axes:
T 1.1530,Plg69.0000°,Azm320.0000°; N -0.0020,Plg2.0000°,Azm225.0000°
; P -1.1510,Plg21.0000°,Azm134.0000° $M_0$1.15200×10^{17}
NEIC Event type se. Moment Tensor Solution. s9 Moment tensor: Scale 10^{17}Nm; M_{rr}0.50 $M_{\theta\theta}$-0.40 $M_{\phi\phi}$-0.10 $M_{r\theta}$1.60 $M_{\theta\phi}$-0.70 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s41.00000°,δ81.00000°,λ85.00000°. NP2:ϕ_s248.00000°,δ9.00000°,λ117.00000°. Principal axes:
T 2.2000,Plg53.0000°,Azm306.0000°; N 0.4000,Plg4.0000°,Azm42.0000°
; P -2.6000,Plg36.0000°,Azm135.0000° $M_0$2.00000×10^{17}
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=129.0. Felt [II] at Chatan, Ginowan, Gushikawa, Ishikawa, Okinawa and Yomitan. Also felt at Naha and Nishihara. Recorded [2 JMA] on Okinawa. Moment Tensor Solution. Best double couple: NP1:ϕ_s206.00000°,δ26.00000°,λ104.00000°. NP2:ϕ_s10.00000°,δ65.00000°,λ83.00000°. Principal axes: T 1.2400,Plg70.0000°,Azm265.0000°; N -0.2600,Plg6.0000°,Azm13.0000°
; P -0.9700,Plg19.0000°,Azm105.0000°
IDC Error ellipse: s-maj=12.9km s-min=8.3km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=139.7.
MOS Error ellipse: s-maj=6.5km s-min=3.7km az=104.8.
JMA V 06 12 13 00.8–.10 29.09N 129.42E 22–4 3.4
NIED V 06 12 13 00 29.10N 129.30E 8 3.8W **¶600608016**
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s95.00000°,δ45.00000°,λ-140.00000°. NP2:ϕ_s335.00000°,δ63.00000°,λ-53.00000°. $M_0$5.39000×10^{14}
ISC V 07 03 21 49.8–.53 28.65N–.03 129.62E–.04 20–3 4.1b,3.2s 55 0-77
NIED V 07 03 21 00 28.70N 129.60E 20 4.2W,3.2s **¶16578045**
IDC V 07 03 21 46.4–.64 28.61N 129.37E 0 4.0,3.9
ISCJB V 07 03 21 49.4–.40 28.66N–.02 129.63E–.04 31–3 3.9b,3.2s
JMA V 07 03 21 50.0–.10 28.67N 129.59E 17–4 3.9,3.2s
NEIC V 07 03 21 52.3–.76 28.60N 129.60E 41–8 4.2b,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s102.00000°,δ23.00000°,λ-136.00000°. NP2:ϕ_s331.00000°,δ74.00000°,λ-73.00000°. $M_0$2.22000×10^{15}
IDC Error ellipse: s-maj=21.7km s-min=14.2km az=84.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.2km az=25.8.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=7.3km az=118.0. Recorded [1 JMA] on Amami-oshima and Kikaiga-shima.
ISC V 08 23 54 32.7–1.3 29.10N–.03 129.45E–.04 18–3 3.3b 30 0-75
NIED V 08 23 54 00 29.10N 129.40E 8 4.0W **¶17203091**
ISCJB V 08 23 54 32.5–.44 29.10N–.03 129.40E–.05 25–4 3.4b
JMA V 08 23 54 32.5–.10 29.09N 129.43E 23–4 3.8
IDC V 08 23 54 40.2–4.3 29.27N 129.38E 71–43 3.5,3.5L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ51.00000°,λ-133.00000°. NP2:ϕ_s332.00000°,δ55.00000°,λ-49.00000°. $M_0$1.05000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=20.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=43.8km s-min=21.9km az=70.0.
ISC V 09 03 42 52.9–1.8 26.07N–.05 128.56E–.05 12–10 3.9b,3.1s 52 1-80
NIED V 09 03 42 00 26.10N 128.60E 14 4.1W,3.1s **¶16560938**
IDC V 09 03 42 51.5–.79 26.06N 128.50E 0 3.9,3.8
ISCJB V 09 03 42 53.7–.95 26.07N–.04 128.59E–.05 31–6 3.7b,3.2s
NEIC V 09 03 42 53.3–1.5 26.03N 128.48E 11–8 4.0b,3.2s
JMA V 09 03 42 55.2–.20 26.15N 128.60E 38–4 3.7,3.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s232.00000°,δ27.00000°,λ99.00000°. NP2:ϕ_s42.00000°,δ63.00000°,λ85.00000°. $M_0$1.38000×10^{15}
IDC Error ellipse: s-maj=31.7km s-min=17.0km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.9km az=37.5.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=6.7km az=117.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 09 05 56 58.0–1.7 26.08N–.05 128.68E–.05 16–10 3.8b 27 1-80
IDC V 09 05 56 56.3–.95 26.06N 128.47E 0 3.8,3.7 **¶17203106**
ISCJB V 09 05 56 58.2–.96 26.08N–.04 128.70E–.04 28–7 3.6b,3.4s
JMA V 09 05 56 59.4–.30 26.09N 128.62E 40–4 3.3,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=19.0km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.8km az=179.4.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 09 15 29 36.0–1.8 26.14N–.06 128.73E–.05 10–12 3.5b 19 1-50
ISCJB V 09 15 29 36.8–1.1 26.08N–.05 128.70E–.06 25–9 3.5b **¶17203135**
IDC V 09 15 29 36.5–3.5 25.86N 128.06E 0 3.7,3.5
JMA V 09 15 29 38.9–.20 26.15N 128.60E 38–4 2.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=8.5km az=24.3.
IDC Error ellipse: s-maj=219.4km s-min=22.4km az=66.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 09 15 33 52.8–1.8 26.10N–.06 128.67E–.06 13–11 3.4b 15 1-50
ISCJB V 09 15 33 52.7–.99 26.09N–.05 128.68E–.04 28–7 3.4b **¶600610601**
JMA V 09 15 33 54.2–.20 26.14N 128.62E 37–4 2.9
IDC V 09 15 33 58.8–2.6 24.63N 125.67E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.6km az=175.1.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=183.0km s-min=21.8km az=66.0.
ISC V 09 21 05 51.7–1.7 26.07N–.05 128.66E–.04 17–10 3.7b 30 1-77
IDC V 09 21 05 48.9–2.6 25.85N 128.63E 0 3.8,3.7 **¶17203149**
ISCJB V 09 21 05 51.9–.91 26.08N–.04 128.68E–.04 29–6 3.5b,3.7
JMA V 09 21 05 53.6–.20 26.14N 128.61E 37–3 2.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=165.1km s-min=20.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.5km az=159.1.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC V 11 13 12 56.2–1.7 26.09N–.04 128.61E–.04 14–10 3.9b 63 1-80
NIED V 11 13 12 00 26.10N 128.60E 14 4.0W **¶16505624**
IDC V 11 13 12 54.7–.82 26.20N 128.56E 0 4.0,3.9
ISCJB V 11 13 12 56.7–.84 26.09N–.03 128.67E–.03 30–6 3.8b,3.9
NEIC V 11 13 12 58.0–2.0 26.10N 128.42E 20–11 4.3b,3.9
JMA V 11 13 12 59.0–.20 26.15N 128.58E 36–3 3.5,3.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ29.00000°,λ69.00000°. NP2:ϕ_s58.00000°,δ63.00000°,λ101.00000°. $M_0$9.65000×10^{14}
IDC Error ellipse: s-maj=27.2km s-min=16.2km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=40.2.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.2km az=116.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
JMA V 11 14 42 10.7–.30 29.12N 130.76E 24–5 3.1
¶600611846
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 11 22 31 02.9–1.5 26.11N–.06 128.74E–.05 16–9 3.5b 22 1-77
ISCJB V 11 22 31 03.2–1.1 26.11N–.05 128.76E–.05 27–7 3.5b **¶600612084**
JMA V 11 22 31 04.0–.30 26.13N 128.73E 34–5 3.1
IDC V 11 22 31 15.0–5.8 25.62N 125.18E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.7km az=169.9.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=143.0km s-min=107.6km az=81.0.
ISC V 15 01 45 55.1–1.8 28.03N–.05 128.12E–.05 4–12 3.5b,3.3s 28 1-77
NIED V 15 01 45 00 28.10N 128.00E 5 4.2W,3.3s **¶17203653**
ISCJB V 15 01 45 53.9–1.4 28.10N–.04 128.05E–.05 2–9 3.5b,3.3s

JMA V 15 01 45 53.9–.30 28.11N 128.02E 9–4 3.6,3.3s
IDC V 15 01 46 06.7–3.7 28.29N 128.24E 92–35 3.6,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S206.00000°,δ55.00000°,λ-163.00000°. NP2:ϕ_S106.00000°,δ77.00000°,λ-36.00000°. $M_0$2.45000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.1km az=36.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=28.4km s-min=17.6km az=70.0.
ISC V 20 03 50 42.1–1.5 27.72N–.04 129.88E–.05 24–12 3.8b,3.5s 33 1-81
JMA V 20 03 50 42.5–.30 27.81N 129.78E 59–5 3.7,3.5s **¶17204010**
IDC V 20 03 50 44.4–6.5 27.80N 129.67E 36–54 4.1L,3.8
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=72.5km s-min=21.3km az=88.0.
JMA V 24 09 37 49.1–.30 28.06N 128.04E 18–4 1.6
¶600622094
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 24 09 58 41.9–.72 27.31N–.05 128.95E–.05 46–6 4.0b 44 0-115
NIED V 24 09 58 00 27.30N 128.90E 29 3.8W **¶16560140**
ISCJB V 24 09 58 40.8–.48 27.32N–.04 128.96E–.06 53–4 3.9b,2.6s
JMA V 24 09 58 41.6–.10 27.31N 128.94E 42–2 3.7,2.6s
IDC V 24 09 58 42.4–.79 27.38N 128.85E 47–8 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S120.00000°,δ48.00000°,λ56.00000°. NP2:ϕ_S346.00000°,δ52.00000°,λ122.00000°. $M_0$6.48000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=10.7km s-min=4.0km az=37.3.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=25.1km s-min=12.4km az=93.0.
JMA V 29 22 12 49.0–.30 25.66N 128.75E 53 3.8
¶600626164
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 31 07 14 43.0–1.3 28.94N–.09 130.6E–.10 40 3.8b,3.1s 18 1-77
ISCJB V 31 07 14 41.0–1.3 28.90N–.10 130.7E–.10 40 3.8b,3.2s **¶17204814**
JMA V 31 07 14 41.3–.20 28.92N 130.68E 55 3.7,3.2s
IDC V 31 07 14 50.1–4.6 29.42N 130.58E 78–50 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.6km s-min=6.3km az=35.3.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=75.6km s-min=18.1km az=74.0.
JMA VI 02 17 07 31.4–.10 28.65N 129.64E 19–3 2.4
¶600628896
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 03 23 14 13.1–1.1 29.10N–.04 130.14E–.09 46–12 3.7b 27 1-77
NIED VI 03 23 14 00 29.10N 130.20E 35 3.9W **¶17205133**
ISCJB VI 03 23 14 12.1–.59 29.11N–.04 130.2E–.10 57–5 3.6b,2.9s
JMA VI 03 23 14 12.3–.10 29.11N 130.15E 48 3.5,2.9s
IDC VI 03 23 14 16.1–4.3 29.21N 130.27E 77–46 3.6,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S227.00000°,δ24.00000°,λ94.00000°. NP2:ϕ_S42.00000°,δ67.00000°,λ88.00000°. $M_0$9.23000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=4.8km az=19.6.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=56.6km s-min=18.8km az=72.0.
ISC VI 05 16 21 16.6–1.4 29.34N–.03 129.97E–.06 28–11 3.5b 33 1-75
NIED VI 05 16 21 00 29.40N 130.00E 56 4.3W **¶17205341**
JMA VI 05 16 21 17.5–.10 29.37N 129.96E 57–3 3.7
IDC VI 05 16 21 21.2–3.0 29.34N 130.07E 81–32 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S219.00000°,δ1.00000°,λ105.00000°. NP2:ϕ_S23.00000°,δ89.00000°,λ90.00000°. $M_0$3.75000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=34.0km s-min=17.5km az=72.0.
ISC VI 09 11 20 49.4–1.0 28.19N–.04 129.50E–.05 17–7 3.7b 43 0-88
IDC VI 09 11 20 47.2–.82 28.23N 129.16E 0 3.8,3.7L **¶17205617**
ISCJB VI 09 11 20 50.7–.40 28.29N–.03 129.55E–.04 27–3 3.6b,3.7L
JMA VI 09 11 20 50.9–.10 28.30N 129.56E 26–2 3.9,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=28.9km s-min=19.4km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.1km az=33.8.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 12 00 46 48.6–1.4 29.32N–.04 130.63E–.07 17–8 3.9b,3.6s 38 1-99
NIED VI 12 00 46 00 29.30N 130.60E 20 4.4W,3.6s **¶16720902**
JMA VI 12 00 46 50.7–.10 29.33N 130.63E 32 4.1,3.6s
IDC VI 12 00 47 04.3–2.5 30.22N 130.41E 112–21 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S322.00000°,δ13.00000°,λ-156.00000°. NP2:ϕ_S209.00000°,δ85.00000°,λ-78.00000°. $M_0$5.10000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=16.0km az=71.0.
ISC VI 12 20 48 16.9–.74 28.04N–.04 130.09E–.04 28–4 4.8b,4.1s 382 0-115
NIED VI 12 20 48 00 28.00N 130.30E 35 5.2W,4.1s **¶16591780**
BJI VI 12 20 48 08.3 27.75N 130.44E 10 4.9b,4.9s
IDC VI 12 20 48 13.1–.47 28.21N 130.11E 0 4.6,4.5
JMA VI 12 20 48 14.3–.10 28.00N 130.26E 35–2 4.6,4.5
ISCJB VI 12 20 48 15.9–.56 28.05N–.02 130.10E–.03 31–3 4.7b,4.0s
NEIC VI 12 20 48 16.6–1.5 28.10N 129.97E 23–10 4.9b,4.0s
GCMT VI 12 20 48 16.6–.40 28.01N 130.33E 28–1 5.0W,4.0s
MOS VI 12 20 48 16.2–1.3 28.09N 130.06E 33 4.9b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S44.00000°,δ24.00000°,λ110.00000°. NP2:ϕ_S202.00000°,δ68.00000°,λ81.00000°. $M_0$6.47000×10^{16}
IDC Error ellipse: s-maj=17.1km s-min=11.6km az=68.0.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=2.8km az=35.4.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=126.0. Recorded [3 JMA] on Kikaiga-shima.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c29; s58,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.98±.33 $M_{\theta\theta}$-1.07±.18; $M_{\phi\phi}$-2.91±.20; $M_{r\theta}$0.91±.32; $M_{\theta\phi}$-1.58±.11; $M_{\phi r}$1.69±.29; Best double couple: NP1:ϕ_S29.00000°,δ58.00000°,λ89.00000°. NP2:ϕ_S211.00000°,δ32.00000°,λ91.00000°. Principal axes: T 4.4260,Plg77.0000°,Azm297.0000°; N -0.1620,Plg1.0000°,Azm30.0000°; P -4.2640,Plg13.0000°,Azm120.0000° $M_0$4.34500×10^{16}
MOS Error ellipse: s-maj=8.6km s-min=4.9km az=106.4.
ISC VI 13 20 14 26.0–1.0 29.19N–.04 129.30E–.06 9–7 3.6b 19 0-49
IDC VI 13 20 14 24.8–4.6 29.17N 129.35E 0 3.7,3.6 **¶17206066**
ISCJB VI 13 20 14 25.6–.94 29.22N–.03 129.21E–.07 13–6 3.5b,3.6
JMA VI 13 20 14 25.4–.10 29.22N 129.21E 14–1 2.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=236.5km s-min=27.1km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=10.5km s-min=5.1km az=12.5.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC VI 16 16 44 51.3–1.6 25.62N–.04 128.71E–.04 15–10 3.3b 43 1-49
JMA VI 16 16 44 53.0–.30 25.65N 128.72E 52 3.8 **¶600641999**
IDC VI 16 16 44 56.2–5.2 24.71N 126.73E 0 3.6,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=283.8km s-min=27.8km az=61.0.
ISC VI 17 21 32 40.9–.33 26.59N–.03 126.34E–.03 124–2 4.8b 355 0-97
NIED VI 17 21 32 00 26.50N 126.40E 107 4.7W **¶16714865**
BJI VI 17 21 32 35.7 26.31N 126.64E 119 4.7b,4.6b
ISCJB VI 17 21 32 38.9–.17 26.55N–.02 126.36E–.02 121–2 4.7b,4.6b
JMA VI 17 21 32 40.3–.20 26.56N 126.36E 114–2 4.4,4.6b
IDC VI 17 21 32 41.0–.43 26.66N 126.30E 125–3 4.6,4.3
NEIC VI 17 21 32 40.8–.37 26.60N 126.24E 123–3 4.8b,4.3
MOS VI 17 21 32 42.0–.90 26.61N 126.25E 151 4.6b,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S118.00000°,δ15.00000°,λ128.00000°. NP2:ϕ_S260.00000°,δ78.00000°,λ80.00000°. $M_0$1.27000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=142.7.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=7.5km az=75.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.3km az=117.0. Felt on Okinawa. Recorded [1 JMA] in the Kerama-retto and on Kume-jima and Tonaki-jima.
MOS Error ellipse: s-maj=8.9km s-min=4.9km az=99.1.
ISC VI 21 20 18 38.9–.45 26.02N–.04 128.52E–.04 21–3 4.6b,4.0s 282 1-96
NIED VI 21 20 18 00 26.00N 128.70E 11 4.5W,4.0s **¶16643042**
BJI VI 21 20 18 30.7 25.75N 128.83E 6 4.8b,4.6b
IDC VI 21 20 18 35.5–.64 26.10N 128.43E 0 4.3,4.2
ISCJB VI 21 20 18 36.6–.69 26.02N–.02 128.50E–.03 19–4 4.6b,4.1s
NEIC VI 21 20 18 37.6–1.3 26.05N 128.35E 13–7 4.8b,4.1s
JMA VI 21 20 18 37.2–.30 26.04N 128.66E 32 4.6,4.1s
MOS VI 21 20 18 39.1–1.2 26.08N 128.45E 36 4.9b,4.4s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S242.00000°,δ36.00000°,λ119.00000°. NP2:ϕ_S28.00000°,δ59.00000°,λ70.00000°. $M_0$6.20000×10^{15}
IDC Error ellipse: s-maj=21.6km s-min=12.9km az=78.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.3km az=41.6.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.0km az=122.0. Felt at Ginowan, Okinawa.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=9.2km s-min=5.7km az=112.0.
JMA VI 21 20 19 31.7–.20 25.97N 128.65E 29 3.7
¶600646553
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 22 04 45 14.0–1.3 26.04N–.04 128.57E–.04 9–7 4.4b,3.9s 147 1-98
NIED VI 22 04 45 00 26.00N 128.70E 14 4.5W,3.9s **¶16646386**
BJI VI 22 04 45 10.2 25.82N 128.54E 5 4.6b,4.5b
IDC VI 22 04 45 12.9–.60 26.09N 128.50E 0 4.2,4.1
ISCJB VI 22 04 45 13.4–.77 26.00N–.03 128.65E–.03 18–5 4.3b,3.9s
JMA VI 22 04 45 14.7–.30 26.01N 128.68E 37 4.2,3.9s
MOS VI 22 04 45 16.5–1.2 26.08N 128.43E 33 4.5b,3.9s
NEIC VI 22 04 45 18.1–.47 26.02N 128.36E 35 4.6b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S214.00000°,δ38.00000°,λ86.00000°. NP2:ϕ_S39.00000°,δ52.00000°,λ93.00000°. $M_0$6.31000×10^{15}
IDC Error ellipse: s-maj=21.8km s-min=12.6km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.0km az=135.5.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
MOS Error ellipse: s-maj=15.0km s-min=7.0km az=108.6.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=7.5km az=117.0.
ISC VI 26 14 30 14.6–.72 29.68N–.04 129.63E–.07 109–6 3.8b 50 0-75
ISCJB VI 26 14 30 13.6–.30 29.66N–.03 129.65E–.06 116–3 3.8b **¶17207002**
JMA VI 26 14 30 14.8–.10 29.66N 129.67E 102–1 3.9
IDC VI 26 14 30 17.3–1.7 29.71N 129.68E 137–16 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=3.7km az=24.8.
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
IDC Error ellipse: s-maj=17.4km s-min=11.0km az=80.0.
ISC VI 27 22 34 05.2–4.5 25.55N–.04 128.82E–.04 17–28 3.9b 72 1-86
NIED VI 27 22 34 00 25.70N 128.80E 5 3.9W **¶16721020**
ISCJB VI 27 22 34 05.7–1.1 25.61N–.03 128.71E–.04 24–8 3.9b
JMA VI 27 22 34 07.2–.30 25.68N 128.78E 55 3.9
NEIC VI 27 22 34 08.5–.41 25.72N 129.25E 35 4.0b
IDC VI 27 22 34 10.0–3.9 25.72N 129.11E 43–37 4.0L,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S50.00000°,δ34.00000°,λ-101.00000°. NP2:ϕ_S244.00000°,δ56.00000°,λ-82.00000°. $M_0$7.51000×10^{14}
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=137.4.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=8.3km az=56.0.
IDC Error ellipse: s-maj=32.0km s-min=17.1km az=72.0.
ISC VI 29 19 48 58.2–1.8 25.81N–.05 128.36E–.04 5–10 4.1b 63 1-86
NIED VI 29 19 48 00 25.80N 128.40E 14 4.4W **¶602897835**
IDC VI 29 19 48 58.1–.76 25.79N 128.14E 0 4.2,4.1
JMA VI 29 19 48 59.6–.30 25.77N 128.39E 50–4 3.9,4.1
NEIC VI 29 19 49 03.1–.59 25.79N 128.10E 35 4.5b,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S220.00000°,δ40.00000°,λ89.00000°. NP2:ϕ_S42.00000°,δ50.00000°,λ91.00000°. $M_0$4.58000×10^{15}
IDC Error ellipse: s-maj=24.2km s-min=16.0km az=81.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=8.1km az=130.0.

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ISC I 16 10 27 58.3–.73 24.47N–.04 127.65E–.03 23–4 4.9b,4.1s 305 2-163
NIED I 16 10 27 00 24.60N 127.60E 5 4.7W,4.1s **¶15931184**
BJI I 16 10 27 54.5 24.40N 127.64E 11 5.0b,4.6b
IDC I 16 10 27 54.2–.53 24.40N 127.74E 0 4.5,4.5b
NEIC I 16 10 27 56.2–.22 24.43N 127.62E 10 4.9b,4.5b
JMA I 16 10 27 57.3–.30 24.55N 127.65E 56 4.8,4.5b
MOS I 16 10 27 58.4–1.6 24.39N 127.67E 33 5.0b,4.5b
ISCJB I 16 10 27 58.3–.20 24.52N–.02 127.59E–.02 33 4.8b,4.1s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S63.00000°,δ18.00000°,λ-80.00000°. NP2:ϕ_S232.00000°,δ72.00000°,λ-93.00000°. $M_0$1.29000×10^{16}
NEIC Event type se.
ISCJB Event type se.
ISC I 16 10 54 22.5–1.2 24.56N–.08 127.59E–.07 47 3.7b 23 2-79
IDC I 16 10 54 18.4–4.0 24.17N 127.18E 0 3.8,3.7b **¶17190312**
ISCJB I 16 10 54 21.2–.77 24.57N–.05 127.57E–.05 47 3.7s,3.6b
JMA I 16 10 54 21.1–.40 24.57N 127.60E 56 3.1,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=260.7km s-min=19.6km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.5km az=136.2.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC I 16 17 11 11.3–1.2 24.47N–.07 127.71E–.06 47 3.6b 24 2-48
IDC I 16 17 11 09.1–6.0 24.32N 127.46E 0 3.7,3.5 **¶17190339**
ISCJB I 16 17 11 11.5–.77 24.56N–.05 127.59E–.05 47 3.4b,3.5
JMA I 16 17 11 11.0–.50 24.52N 127.69E 60 3.2,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=323.9km s-min=29.1km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.0km az=138.7.
JMA Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.
ISC I 21 22 50 25.5–2.1 24.97N–.06 128.03E–.05 12–13 3.9b 44 1-91
IDC I 21 22 50 24.6–1.4 24.91N 127.89E 0 4.0,3.8 **¶16152046**
JMA I 21 22 50 27.9–.30 25.06N 127.99E 69 3.7,3.8
NEIC I 21 22 50 29.0–3.3 25.00N 128.12E 31–24 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=59.9km s-min=20.9km az=71.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=11.4km az=109.0.
JMA I 22 23 54 55.9–.10 29.23N 131.34E 78–5 3.5
NIED I 22 23 54 00 29.20N 131.30E 32 3.5W **¶600521245**
JMA Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_S185.00000°,δ43.00000°,λ142.00000°. NP2:ϕ_S305.00000°,δ65.00000°,λ54.00000°. $M_0$1.99000×10^{14}
ISC I 27 00 19 56.1–2.0 29.26N–.08 131.2E–.10 39–6 3.4b 22 1-78
ISCJB I 27 00 19 54.9–1.4 29.22N–.06 131.3E–.10 34–11 3.3b,3.1s **¶17191068**
JMA I 27 00 19 54.0–.10 29.20N 131.33E 39 3.1,3.1s
IDC I 27 00 19 54.8–5.3 29.46N 130.73E 0 3.5,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=5.3km az=26.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=111.5km s-min=60.5km az=121.0.
JMA II 10 06 05 46.4–.10 28.12N 131.06E 88–3 3.5
¶600527685
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
JMA II 14 19 00 30.9–.20 25.72N 129.35E 46 3.6
¶600529113
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC II 19 09 38 42.3–.76 24.91N–.05 128.21E–.04 29 4.0b 54 1-74
NIED II 19 09 38 00 25.00N 128.10E 8 3.8W **¶17192527**

IDC II 19 09 38 39.5–.95 24.86N 128.02E 0 3.9,3.9b
ISCJB II 19 09 38 41.0–.51 24.95N–.03 128.12E–.04 29 3.8b,3.4s
JMA II 19 09 38 42.7–.30 25.02N 128.10E 79 3.6,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ15.00000°,λ-17.00000°. NP2:ϕ_s239.00000°,δ85.00000°,λ-105.00000°. $M_0$5.85000×10^{14}
IDC Error ellipse: s-maj=44.3km s-min=15.6km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.2km az=135.2.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
JMA III 12 04 04 41.8–.10 26.64N 130.61E 42 4.1 ¶602656317
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
JMA III 18 23 09 23.0–.20 29.94N 131.39E 38–3 3.8
NIED III 18 23 09 00 29.90N 131.40E 23 4.0W **¶600556545**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ41.00000°,λ105.00000°. NP2:ϕ_s28.00000°,δ51.00000°,λ77.00000°. $M_0$1.28000×10^{15}
ISC V 20 02 40 56.4–1.1 23.60N–.08 126.50E–.05 35 3.4b 34 2-82
ISCJB V 20 02 40 54.5–.66 23.62N–.05 126.51E–.03 33 3.4b **¶17204007**
IDC V 20 02 40 54.8–1.1 23.02N 125.54E 0 3.7,3.5
JMA V 20 02 40 55.6–.20 23.53N 126.35E 30 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=162.8.
IDC Error ellipse: s-maj=59.1km s-min=20.8km az=69.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC VI 15 22 28 23.2–1.5 23.50N–.10 129.16E–.06 35 49 3-44
JMA VI 15 22 28 18.2–.40 23.31N 129.28E 45 5.0 **¶600641377**
IDC VI 15 22 28 34.9–6.7 24.85N 127.62E 0 4.1L,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=120.5km s-min=36.7km az=143.0.
ISC VI 16 05 03 13.1–3.3 28.97N–.05 131.18E–.07 13–21 4.1b,3.2s 68 1-85
IDC VI 16 05 03 11.5–1.1 28.95N 131.25E 0 4.0,3.9b **¶16720932**
NEIC VI 16 05 03 12.5–.56 28.93N 131.22E 10 4.3b,3.9b
ISCJB VI 16 05 03 13.7–1.3 28.97N–.03 131.22E–.04 29–10 4.1b,3.3s
JMA VI 16 05 03 14.9 28.98N 131.16E 66–3 3.5,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=24.0km az=86.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.2km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.7km az=28.0.
JMA VI 23 01 01 37.8–.20 25.80N 130.15E 40 3.8 ¶600647501
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
JMA VI 28 09 16 49.2–.10 25.80N 130.09E 41 3.8 ¶600651477
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

(240) West of Bonin Islands.

ISC IV 25 14 29 47.2–.95 25.53N–.10 134.25E–.08 35 4.0b 41 3-82
IDC IV 25 14 29 41.9–.97 25.46N 134.21E 0 3.9,3.9 **¶16553315**
NEIC IV 25 14 29 43.3–.56 25.47N 134.26E 10 4.2b,3.9
ISCJB IV 25 14 29 45.3–.61 25.57N–.07 134.21E–.04 33 3.9b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 27 11 03 02.0–9.0 26.50N 136.98E 119–108 3.6,3.4L ¶17204564
IDC Error ellipse: s-maj=81.3km s-min=24.4km az=65.0.

SEISMIC REGION 21.
Taiwan.

(243) Taiwan region.

ISC I 01 23 13 36.0–1.4 23.93N–.04 122.70E–.02 31–14 76 1-2
ISCJB I 01 23 13 35.0–.46 23.88N–.03 122.69E–.02 22–4 **¶600514659**
JMA I 01 23 13 35.9–.10 24.01N 122.66E 35–4 3.0
TAP I 01 23 13 36.0 23.92N 122.69E 46–1 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=164.8.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
ISC I 02 10 33 24.5–1.3 24.90N–.04 122.06E–.03 117–6 133 0-7
ISCJB I 02 10 33 24.3–.42 24.88N–.03 122.08E–.02 116–3 **¶600514799**
JMA I 02 10 33 24.8–.20 24.86N 122.02E 111–2 3.1
TAP I 02 10 33 25.0 24.93N 122.03E 114–0 4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.4km az=156.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
TAP I 02 12 55 49.0 21.10N 122.15E 170–1 3.6L ¶601161355
TAP C.
ISC I 02 13 56 10.1–1.7 24.51N–.08 122.68E–.03 97–12 48 0-2
ISCJB I 02 13 56 10.0–.77 24.51N–.06 122.68E–.02 95–7 **¶600514880**
TAP I 02 13 56 09.4 24.58N 122.66E 106–0 2.9L
JMA I 02 13 56 09.5–.10 24.47N 122.66E 101–2 1.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=3.3km az=176.5.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC I 02 23 37 27.6–1.2 24.92N–.06 122.49E–.04 15–11 20 0-2
ISCJB I 02 23 37 27.5–.86 24.92N–.06 122.51E–.04 9–6 **¶600515034**
TAP I 02 23 37 27.8 24.93N 122.46E 14–2 2.9L
JMA I 02 23 37 28.6–.10 24.84N 122.45E 16 1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=4.4km az=23.5.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 03 08 12 29.0–1.3 24.36N–.05 122.19E–.03 53–13 48 0-2
JMA I 03 08 12 27.6–.10 24.30N 122.16E 66–2 2.4 **¶600515151**
ISCJB I 03 08 12 28.4–.59 24.37N–.05 122.20E–.02 59–8 2.4
TAP I 03 08 12 28.2 24.39N 122.16E 61–0 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.0km az=166.3.
TAP C.
ISC I 05 13 56 07.1–1.8 24.67N–.08 122.81E–.03 108–11 55 0-3
TAP I 05 13 56 05.3 24.71N 122.79E 124–0 3.0L **¶600515957**
JMA I 05 13 56 05.5–.20 24.68N 122.77E 118–2 2.5
ISCJB I 05 13 56 06.3–.79 24.71N–.06 122.81E–.02 110–6 2.5
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC I 06 15 01 42.2–.86 24.27N–.03 122.22E–.02 50–7 3.8b 127 0-83
IDC I 06 15 01 29.5–4.1 23.40N 122.11E 0 3.9,3.8 **¶17189599**
ISCJB I 06 15 01 42.9–.23 24.29N–.02 122.22E–.02 53–4 3.5b,3.8
TAP I 06 15 01 42.8 24.28N 122.19E 50–0 4.3L,3.8
JMA I 06 15 01 42.0–.10 24.20N 122.16E 56–3 3.8,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=94.5km s-min=42.5km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=161.2.
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 07 00 07 00.2–1.2 24.12N–.04 122.60E–.02 49–15 95 0-3
ISCJB I 07 00 06 59.7–.36 24.12N–.03 122.61E–.02 51–9 **¶600516325**
TAP I 07 00 06 59.6 24.15N 122.57E 65–0 3.9L
JMA I 07 00 06 59.0–.10 24.12N 122.57E 63–2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.5km az=173.7.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 08 01 12 21.4–1.3 24.41N–.07 122.84E–.03 64–9 47 0-2
ISCJB I 08 01 12 21.0–.56 24.42N–.06 122.84E–.02 65–7 **¶600516608**
JMA I 08 01 12 20.7–.10 24.49N 122.83E 69–1 2.6
TAP I 08 01 12 21.4 24.49N 122.80E 70–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=3.1km az=177.1.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
TAP D.
ISC I 10 16 13 34.0–1.0 24.92N–.03 122.25E–.02 8–9 54 0-2
TAP I 10 16 13 33.5 24.95N 122.24E 7–0 3.1L **¶600517448**
JMA I 10 16 13 33.9–.10 24.89N 122.25E 2 2.8
ISC Event type ke.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 10 22 41 43.2–1.1 24.58N–.02 122.16E–.02 4–8 3.6b 118 0-96
IDC I 10 22 41 42.4–.82 24.63N 122.30E 0 3.9,3.7b **¶15917534**
ISCJB I 10 22 41 43.8–.37 24.61N–.02 122.14E–.01 1–3 3.7b,2.8s
TAP I 10 22 41 44.7 24.59N 122.05E 13–0 4.4L,2.8s
JMA I 10 22 41 44.9 24.54N 122.03E 22 3.9,2.8s
BJI I 10 22 41 46.6 24.62N 122.18E 40 4.4b,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=50.0km s-min=17.2km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=174.5.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 11 01 46 43.7–1.0 24.92N–.03 122.29E–.02 11–7 3.9b 87 0-71
NIED I 11 01 46 00 24.90N 122.30E 5 3.8W **¶17189889**
ISCJB I 11 01 46 43.3–.53 25.02N–.03 122.33E–.02 7–3 3.9b
JMA I 11 01 46 43.5–.10 24.90N 122.29E 0 3.5
TAP I 11 01 46 44.4 24.96N 122.22E 8–0 3.9L
IDC I 11 01 46 57.9–9.7 24.75N 121.72E 134–101 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s271.00000°,δ41.00000°,λ-67.00000°. NP2:ϕ_s61.00000°,δ53.00000°,λ-109.00000°. $M_0$5.07000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.1km az=179.6.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
IDC Error ellipse: s-maj=82.6km s-min=15.3km az=64.0.
ISC I 11 17 22 21.6–3.0 25.3N–.10 122.59E–.05 236–17 51 1-3
TAP I 11 17 22 19.5 25.41N 122.56E 259–1 3.4L **¶601161929**
ISCJB I 11 17 22 21.7–.95 25.29N–.09 122.60E–.04 234–6 3.4L
JMA I 11 17 22 21.5–.40 25.33N 122.52E 231–5 3.2
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=4.9km az=172.4.
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
ISC I 12 03 53 09.1–.84 24.36N–.02 122.07E–.02 28–6 4.0b,3.5s 154 0-86
NIED I 12 03 53 00 24.30N 122.00E 35 4.4W,3.5s **¶15990246**
BJI I 12 03 53 07.7 24.37N 122.02E 6 4.6b,4.3b
TAP I 12 03 53 08.9 24.35N 122.04E 26–0 4.5L,4.3b
JMA I 12 03 53 08.9–.10 24.27N 122.01E 43–3 4.6,4.3b
ISCJB I 12 03 53 09.3–.25 24.37N–.02 122.10E–.01 28–2 3.9b,3.6s
NEIC I 12 03 53 10.3 24.38N 122.01E 10 4.5b,4.4L
IDC I 12 03 53 12.8–3.2 24.58N 122.21E 62–31 3.9,3.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s76.00000°,δ59.00000°,λ26.00000°. NP2:ϕ_s332.00000°,δ68.00000°,λ146.00000°. $M_0$3.83000×10^{15}
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.1km az=163.1.
NEIC Event type fe. Recorded [3 TAP] in Yilan, [2 TAP] in Hualien and [1 TAP] in Taoyuan. After TAP.
IDC Error ellipse: s-maj=21.5km s-min=15.5km az=61.0.
ISC I 12 04 04 41.4–1.6 24.82N–.06 122.02E–.03 98–9 77 0-2
JMA I 12 04 04 39.9–.10 24.82N 121.97E 106–1 3.0 **¶600517909**
TAP I 12 04 04 40.8 24.87N 121.99E 101–1 3.7L
ISCJB I 12 04 04 41.0–.65 24.82N–.03 122.02E–.02 99–4 3.7L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC I 12 22 39 23.3–1.1 23.75N–.03 122.12E–.02 27–11 91 1-3
ISCJB I 12 22 39 23.0–.39 23.74N–.02 122.16E–.02 21–3 **¶600518118**
JMA I 12 22 39 23.4–.10 23.75N 122.08E 30–5 2.6
TAP I 12 22 39 23.6 23.78N 122.10E 19–1 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=155.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC I 13 12 09 05.2–1.1 24.75N–.03 122.40E–.02 15–8 3.7b 91 0-49
IDC I 13 12 09 03.4–1.3 24.30N 120.45E 0 3.9,3.7b **¶17190052**
ISCJB I 13 12 09 05.4–.51 24.82N–.03 122.43E–.02 10–4 3.6b,3.7b
TAP I 13 12 09 05.8 24.80N 122.37E 17–0 4.1L,3.7b
JMA I 13 12 09 06.3–.10 24.72N 122.37E 46–3 3.0,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=68.7km s-min=22.3km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.5km az=15.4.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 14 03 12 06.7–1.0 24.72N–.04 122.37E–.02 17–9 43 0-2
TAP I 14 03 12 05.8 24.73N 122.36E 10–0 3.4L **¶600518463**
ISCJB I 14 03 12 06.9–.63 24.76N–.04 122.39E–.02 11–5 3.4L
JMA I 14 03 12 07.3–.10 24.71N 122.36E 26 2.7
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.0km az=10.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 14 15 29 59.2–.92 22.98N–.02 121.41E–.02 26–6 99 0-4
ISCJB I 14 15 29 58.5–.34 22.97N–.02 121.47E–.02 20–4 **¶600518625**
JMA I 14 15 29 58.4–.10 23.01N 121.32E 32–3 3.7
TAP I 14 15 29 59.6 23.01N 121.33E 27–0 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.2km az=13.5.
JMA Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
TAP B.
ISC I 14 19 58 01.7–1.2 24.86N–.04 122.48E–.03 13–8 3.2b 87 0-49
IDC I 14 19 58 01.3–1.2 24.46N 121.53E 0 3.6,3.5 **¶17190207**
ISCJB I 14 19 58 02.5–.49 24.89N–.03 122.51E–.02 23–3 3.3b,3.1s
JMA I 14 19 58 02.1–.10 24.90N 122.52E 27 2.7,3.1s
TAP I 14 19 58 02.4 24.93N 122.43E 18–0 3.6L,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=68.8km s-min=20.7km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=12.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC I 15 12 22 20.7–1.5 24.56N–.06 122.77E–.03 77–13 80 0-3
JMA I 15 12 22 18.4–.10 24.60N 122.74E 100–2 2.3 **¶600518913**
TAP I 15 12 22 19.7 24.54N 122.87E 49–1 3.5L
ISCJB I 15 12 22 20.4–.60 24.56N–.04 122.76E–.02 77–8 3.5L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC I 15 22 01 21.1–1.5 24.39N–.07 122.90E–.03 89–11 44 0-2
JMA I 15 22 01 20.6–.20 24.37N 122.88E 92–2 2.2 **¶600519055**
ISCJB I 15 22 01 21.0–.67 24.38N–.06 122.89E–.02 86–7 2.2
TAP I 15 22 01 21.4 24.42N 122.90E 88–1 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=6.7km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=3.7km az=179.0.
TAP C.
ISC I 16 09 01 05.5–.93 24.38N–.02 122.09E–.02 15–8 90 0-2
ISCJB I 16 09 01 04.9–.41 24.39N–.02 122.13E–.02 7–3 **¶600519219**

JMA I 16 09 01 05.5 24.32N 122.05E 27–2 3.1
TAP I 16 09 01 06.0 24.41N 122.01E 23–0 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=166.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC I 17 12 14 12.1–1.2 24.32N–.07 122.98E–.02 44–8 51 0-3
ISCJB I 17 12 14 11.6–.41 24.32N–.06 122.97E–.02 47–6 **¶600519532**
JMA I 17 12 14 11.9–.10 24.39N 122.99E 48–1 2.4
TAP I 17 12 14 13.2 24.30N 122.80E 26–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=3.0km az=176.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
TAP I 17 14 40 59.3 21.23N 122.21E 140–1 3.5L
¶601162271
TAP D.
ISC I 17 16 12 57.8–3.4 25.6N–.20 122.72E–.05 213–20 34 1-3
TAP I 17 16 12 55.5 25.67N 122.99E 211–1 3.4L **¶600519586**
ISCJB I 17 16 12 57.4–1.2 25.6N–.10 122.74E–.05 214–10 3.4L
JMA I 17 16 12 58.2–.20 25.30N 122.72E 224–3 2.9
ISC Event type ke.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=6.6km az=178.4.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
ISC I 21 16 24 59.2–1.1 24.89N–.04 122.13E–.03 6–11 25 0-2
ISCJB I 21 16 24 58.9–.67 24.91N–.04 122.15E–.03 1–8 **¶600520821**
JMA I 21 16 24 59.6–.10 24.88N 122.11E 9 2.8
TAP I 21 16 24 59.6 24.88N 122.08E 5–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=7.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC I 22 13 00 46.1–1.2 23.77N–.04 122.62E–.02 5–11 49 1-2
JMA I 22 13 00 48.7–.10 23.87N 122.59E 45 2.0 **¶601162607**
TAP I 22 13 00 50.2 23.87N 122.52E 30–2 2.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC I 22 16 10 16.0–1.4 24.62N–.05 122.57E–.03 99–9 91 0-4
JMA I 22 16 10 14.8–.10 24.61N 122.52E 107–2 1.9 **¶600521122**
ISCJB I 22 16 10 15.5–.55 24.63N–.03 122.57E–.02 100–4 1.9
TAP I 22 16 10 15.4 24.61N 122.62E 93–1 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=168.5.
TAP D.
ISC I 23 07 53 54.7–1.7 24.85N–.06 122.01E–.03 93–9 62 0-2
JMA I 23 07 53 53.2–.20 24.87N 121.96E 100–2 2.3 **¶600521324**
TAP I 23 07 53 53.5 24.86N 122.07E 98–1 3.3L
ISCJB I 23 07 53 54.3–.72 24.85N–.04 122.01E–.03 95–5 3.3L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC I 23 18 07 32.9–1.0 24.02N–.03 122.26E–.02 16–9 65 1-2
TAP I 23 18 07 31.3 24.06N 122.30E 3–1 2.8L **¶600521499**
ISCJB I 23 18 07 32.6–.54 24.01N–.02 122.26E–.02 1–4 2.8L
JMA I 23 18 07 34.0–.20 24.02N 122.20E 32 2.4
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=158.2.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC I 24 04 11 57.2–1.4 24.79N–.04 119.28E–.03 5–12 85 1-3
ISCJB I 24 04 11 57.5–.74 24.83N–.03 119.30E–.04 7–8 **¶15967610**
TAP I 24 04 11 58.1 24.81N 119.21E 22–1 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=135.4.
TAP D.
ISC I 25 11 36 13.4–1.0 23.96N–.02 122.42E–.02 7–7 4.3b,3.6s 188 1-83
NIED I 25 11 36 00 24.00N 122.40E 5 4.6W,3.6s **¶16135778**
IDC I 25 11 36 11.9–.95 24.10N 122.63E 0 4.2,4.1b
BJI I 25 11 36 13.0 23.99N 122.37E 6 4.3b,4.2s
JMA I 25 11 36 13.9–.30 23.97N 122.41E 13–5 4.5,4.2s
NEIC I 25 11 36 13.5–1.1 23.98N 122.42E 8–7 4.6L,4.4b
ISCJB I 25 11 36 13.2–.42 23.98N–.02 122.45E–.01 7–3 4.1b,3.6s
TAP I 25 11 36 14.3 24.03N 122.43E 19–0 4.5L,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s34.00000°,δ14.00000°,λ28.00000°. NP2:ϕ_s277.00000°,δ84.00000°,λ102.00000°. M$_0$9.50000×10^{15}
IDC Error ellipse: s-maj=37.2km s-min=18.4km az=68.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=7.3km az=135.0. Recorded [2 TAP] in Yilan and [1 TAP] in Hualien.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=164.9.
TAP C.
ISC I 27 03 31 43.5–1.1 24.11N–.03 122.43E–.02 33–5 108 1-4
JMA I 27 03 31 42.4–.10 24.10N 122.40E 60–3 3.4 **¶600522542**
ISCJB I 27 03 31 43.2–.29 24.10N–.02 122.44E–.02 43–14 3.4
TAP I 27 03 31 43.4 24.15N 122.38E 56–0 4.0L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.2km az=166.1.
TAP C.
ISC I 27 07 02 17.6–1.7 24.75N–.07 122.72E–.03 98–11 53 0-3
JMA I 27 07 02 16.6–.20 24.70N 122.70E 107–2 2.3 **¶600522587**
TAP I 27 07 02 16.3 24.81N 122.74E 105–0 3.2L
ISCJB I 27 07 02 17.1–.73 24.76N–.05 122.73E–.02 99–6 3.2L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC I 27 07 11 23.9–1.3 24.17N–.05 122.46E–.02 53–16 57 1-2
JMA I 27 07 11 22.9–.10 24.12N 122.43E 61–3 2.3 **¶600522592**
ISCJB I 27 07 11 23.4–.49 24.16N–.04 122.47E–.02 55–10 2.3
TAP I 27 07 11 23.7 24.14N 122.48E 32–0 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=2.6km az=170.6.
TAP D.
ISC I 27 12 49 01.2–1.1 23.80N–.03 122.40E–.02 13–9 67 1-2
ISCJB I 27 12 49 02.1–.50 23.78N–.03 122.43E–.02 16–5 **¶600522667**
JMA I 27 12 49 02.1–.10 23.85N 122.36E 22 2.3
TAP I 27 12 49 02.9 23.81N 122.30E 10–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.8km az=153.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC I 29 07 43 15.2–.82 24.92N–.03 122.03E–.03 13–5 3.4b 58 0-50
IDC I 29 07 43 14.1–1.7 24.75N 121.61E 0 3.6,3.5 **¶17191244**
ISCJB I 29 07 43 15.2–.47 24.90N–.03 122.08E–.03 6–4 3.4b,3.5
TAP I 29 07 43 15.3 24.92N 122.02E 11–0 3.3L,3.5
JMA I 29 07 43 15.8–.10 24.92N 121.96E 40 2.9,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=152.6km s-min=19.3km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=156.6.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 29 07 45 55.9–1.0 24.92N–.04 122.00E–.04 14–6 23 0-1
TAP I 29 07 45 55.8 24.92N 122.02E 12–0 2.9L **¶17191245**
JMA I 29 07 45 56.6–.20 24.91N 121.98E 32 2.9L
ISC Event type ke.
TAP C.

JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC I 29 07 46 11.8–.90 24.92N–.03 122.03E–.04 12–5 3.5b 47 0-50
IDC I 29 07 46 11.0–1.9 24.83N 121.87E 0 3.7,3.5 **¶600523236**
ISCJB I 29 07 46 11.8–.57 24.92N–.03 122.06E–.03 10–3 3.5b,3.5
TAP I 29 07 46 11.7 24.91N 122.02E 11–0 3.5L,3.5
JMA I 29 07 46 12.0–.20 24.94N 121.96E 41 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=157.6km s-min=22.5km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=40.5.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 29 09 33 37.1–1.1 24.93N–.02 122.11E–.03 6–7 3.5b 91 0-50
IDC I 29 09 33 35.3–2.2 25.27N 123.13E 0 3.8,3.6 **¶17191248**
ISCJB I 29 09 33 36.7–.45 24.94N–.02 122.14E–.02 3–3 3.5b,3.6
TAP I 29 09 33 37.1 24.92N 122.02E 2–0 3.3L,3.6
JMA I 29 09 33 37.5–.10 24.95N 121.99E 39 3.0,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=167.3km s-min=22.1km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=162.3.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 29 23 40 51.5–1.1 23.85N–.03 122.75E–.02 12–9 72 1-2
ISCJB I 29 23 40 52.8–.45 23.88N–.03 122.75E–.02 15–4 **¶601163026**
JMA I 29 23 40 53.3–.10 23.93N 122.76E 24–3 3.2
TAP I 29 23 40 55.0 23.92N 122.58E 11–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.4km az=170.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC I 30 05 38 31.9–1.7 24.62N–.07 122.68E–.03 104–11 57 0-2
ISCJB I 30 05 38 31.7–.71 24.62N–.05 122.68E–.02 102–6 **¶601163035**
TAP I 30 05 38 31.8 24.64N 122.64E 109–0 3.4L
JMA I 30 05 38 31.2–.20 24.59N 122.67E 108–2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=3.3km az=176.0.
TAP C.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
TAP I 30 15 44 11.9 21.20N 121.01E 41–1 3.5L
¶601163059
TAP C.
ISC I 31 02 16 56.6–1.4 24.46N–.06 122.97E–.03 86–9 70 0-3
ISCJB I 31 02 16 56.5–.52 24.45N–.05 122.96E–.02 83–5 **¶600523894**
TAP I 31 02 16 56.8 24.49N 122.95E 84–1 3.4L
JMA I 31 02 16 56.4–.20 24.46N 122.95E 87–2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=2.9km az=175.7.
TAP C.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
ISC I 31 14 21 19.9–1.7 21.10N–.03 121.09E–.06 2–11 3.7b 61 1-86
IDC I 31 14 21 19.4–.82 21.06N 121.02E 0 3.9,3.7 **¶17191412**
TAP I 31 14 21 20.4 21.05N 121.25E 16–1 3.9L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=29.0km s-min=16.3km az=72.0.
TAP D.
ISC I 31 14 58 45.0–.71 22.83N–.02 121.36E–.02 20–3 3.3b 111 0-48
IDC I 31 14 58 41.4–1.3 22.87N 121.88E 0 3.5,3.4 **¶17191413**
JMA I 31 14 58 43.1–.10 22.84N 121.19E 39–2 3.7,3.4
ISCJB I 31 14 58 44.1–.35 22.80N–.02 121.41E–.02 18–4 3.3b,3.4
TAP I 31 14 58 45.4 22.87N 121.25E 14–0 3.8L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=50.4km s-min=19.9km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=18.3.
TAP B.
ISC I 31 22 44 28.3–.76 24.24N–.03 122.30E–.02 52–6 4.0b 187 1-83
NIED I 31 22 44 00 24.20N 122.20E 5 4.0W **¶601163189**
IDC I 31 22 44 21.6–.82 24.28N 122.18E 0 4.0,4.0L
ISCJB I 31 22 44 28.5–.17 24.30N–.02 122.31E–.01 65–2 4.0b,4.0L
JMA I 31 22 44 28.2–.10 24.17N 122.25E 52–2 4.2,4.0L
TAP I 31 22 44 29.1 24.27N 122.28E 50–0 4.4L,4.0L
NEIC I 31 22 44 29.0–.52 24.23N 122.29E 63–4 4.3b,4.0L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s258.00000°,δ26.00000°,λ-73.00000°. NP2:ϕ_s60.00000°,δ65.00000°,λ-98.00000°. M$_0$1.30000×10^{15}
IDC Error ellipse: s-maj=24.3km s-min=17.5km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=1.9km az=163.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=7.7km az=110.0.
ISC II 01 04 32 27.9–1.4 24.49N–.06 122.80E–.03 89–9 66 0-2
ISCJB II 01 04 32 27.5–.58 24.49N–.05 122.80E–.02 89–6 **¶600524200**
TAP II 01 04 32 27.3 24.50N 122.77E 101–0 3.4L
JMA II 01 04 32 27.1–.10 24.47N 122.78E 94–1 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=2.9km az=174.7.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
IDC II 01 12 34 03.0–2.7 24.40N 122.51E 0 3.7,3.5
¶17191480
IDC Error ellipse: s-maj=452.2km s-min=28.2km az=70.0.
ISC II 01 13 14 48.6–1.8 24.88N–.07 122.49E–.03 121–11 67 0-2
ISCJB II 01 13 14 47.9–.64 24.89N–.05 122.49E–.02 124–5 **¶600524316**
TAP II 01 13 14 47.5 24.95N 122.50E 125–0 3.6L
JMA II 01 13 14 47.2–.20 24.89N 122.45E 129–2 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.5km az=171.9.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 03 04 16 32.1–.94 24.40N–.02 122.01E–.02 26–7 101 0-2
JMA II 03 04 16 31.4–.20 24.32N 121.91E 51–4 2.6 **¶600524872**
ISCJB II 03 04 16 32.3–.30 24.37N–.02 122.02E–.02 20–3 2.6
TAP II 03 04 16 32.2 24.41N 121.95E 27–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=145.8.
TAP D.
TAP II 03 13 40 51.2 22.00N 120.37E 56–1 3.7L
¶601163593
TAP D.
ISC II 04 06 45 06.4–1.6 24.55N–.06 122.80E–.03 80–13 57 0-3
ISCJB II 04 06 45 05.9–.71 24.56N–.05 122.80E–.02 82–7 **¶600525275**
TAP II 04 06 45 05.7 24.50N 122.90E 48–1 3.2L
JMA II 04 06 45 05.3–.10 24.62N 122.78E 86–2 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.4km az=179.4.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP II 04 16 19 45.6 22.52N 121.67E 11–2 2.5L
¶600525431
TAP D.
ISC II 04 16 20 43.7–1.1 24.07N–.02 122.28E–.02 19–3 106 1-3
ISCJB II 04 16 20 43.0–.49 24.07N–.02 122.31E–.02 7–3 **¶600525427**
TAP II 04 16 20 43.5 24.11N 122.27E 9–1 3.2L
JMA II 04 16 20 43.9 24.03N 122.28E 29–2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=162.8.
TAP D.
ISC II 04 21 51 34.5–.87 24.94N–.03 122.09E–.02 10–6 3.6b 71 0-50
TAP II 04 21 51 34.9 24.91N 122.02E 9–0 3.3L **¶601163776**
JMA II 04 21 51 34.5–.10 24.95N 122.04E 34 3.0
IDC II 04 21 51 34.8–1.3 24.63N 121.29E 0 3.7,3.6b

ISC Event type ke.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=66.4km s-min=21.4km az=69.0.
ISC II 05 12 46 31.9–.70 24.65N–.03 122.08E–.02 69–5 3.7b 139 0-82
NIED II 05 12 46 00 24.60N 122.10E 74 4.0W **¶16008586**
BJI II 05 12 46 30.5 24.61N 121.94E 8 3.8L
ISCJB II 05 12 46 31.5–.25 24.68N–.02 122.09E–.02 75–2 3.7b
JMA II 05 12 46 31.6–.20 24.60N 122.06E 71–3 3.9
TAP II 05 12 46 32.1 24.63N 122.06E 68–0 4.5L
IDC II 05 12 46 42.5–3.4 24.60N 121.92E 173–33 3.8,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s29.00000°,δ20.00000°,λ132.00000°. NP2:ϕ_s166.00000°,δ75.00000°,λ77.00000°. $M_0$9.87000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=163.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=20.5km s-min=12.8km az=78.0.
ISC II 06 10 08 29.3–2.4 21.6N–.10 121.11E–.04 25–12 51 0-5
JMA II 06 10 08 24.5–.70 21.55N 120.71E 96 3.0 **¶600526175**
TAP II 06 10 08 26.5 21.45N 121.12E 35–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=8.3km az=-1.0.
TAP C.
ISC II 09 19 15 38.3–3.2 25.3N–.20 122.52E–.05 243–18 40 1-3
TAP II 09 19 15 36.7 25.59N 122.33E 262–1 3.8L **¶600527555**
ISCJB II 09 19 15 38.7–1.1 25.4N–.10 122.54E–.04 238–7 3.8L
JMA II 09 19 15 38.1–.30 25.29N 122.43E 240–3 2.8
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=19.2km s-min=5.4km az=171.8.
JMA Error ellipse: s-maj=5.6km s-min=1.0km az=-1.0.
ISC II 10 13 01 55.8–.69 24.67N–.03 122.52E–.02 107–5 3.8b 183 0-59
NIED II 10 13 01 00 24.60N 122.50E 110 4.0W **¶17192011**
ISCJB II 10 13 01 55.2–.23 24.70N–.02 122.52E–.01 109–2 3.8b
JMA II 10 13 01 55.9–.10 24.62N 122.46E 104–2 3.8
TAP II 10 13 01 56.5 24.65N 122.51E 101–0 4.7L
IDC II 10 13 01 58.0–5.6 24.91N 122.68E 129–58 3.9,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s297.00000°,δ55.00000°,λ29.00000°. NP2:ϕ_s189.00000°,δ67.00000°,λ142.00000°. $M_0$1.18000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=1.9km az=161.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=49.3km s-min=12.6km az=57.0.
ISC II 11 07 46 43.4–1.4 23.85N–.05 122.86E–.02 19–3 49 1-2
ISCJB II 11 07 46 43.8–.58 23.84N–.04 122.86E–.02 20–5 **¶600528046**
JMA II 11 07 46 44.5–.10 23.91N 122.85E 28–4 2.9
TAP II 11 07 46 45.1 23.75N 122.78E 18–1 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.0km az=171.6.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC II 11 08 46 31.8–1.4 24.25N–.06 122.43E–.02 55–19 44 1-2
JMA II 11 08 46 30.6–.10 24.11N 122.40E 55–2 2.4 **¶600528065**
ISCJB II 11 08 46 31.2–.62 24.26N–.05 122.44E–.02 59–12 2.4
TAP II 11 08 46 32.5 24.29N 122.35E 52–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=3.0km az=179.0.
TAP D.
ISC II 12 13 17 07.3–1.1 24.73N–.07 122.74E–.03 30–11 34 0-1
ISCJB II 12 13 17 08.0–.52 24.73N–.05 122.73E–.02 15–13 **¶600528410**
JMA II 12 13 17 08.3 24.69N 122.72E 22–1 2.0
TAP II 12 13 17 10.2 24.72N 122.53E 8–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=2.7km az=12.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC II 12 14 33 28.8–1.0 24.74N–.04 122.36E–.02 15–8 52 0-2
ISCJB II 12 14 33 28.9–.47 24.75N–.04 122.38E–.02 8–4 **¶600528426**
TAP II 12 14 33 29.4 24.75N 122.28E 7–0 2.8L
JMA II 12 14 33 29.6–.10 24.70N 122.35E 22 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=2.6km az=6.7.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 13 00 49 44.0–.60 25.28N–.05 122.29E–.03 209–5 3.6b 138 0-82
NIED II 13 00 49 00 25.20N 122.20E 195 4.2W **¶16031757**
ISCJB II 13 00 49 43.6–.24 25.25N–.04 122.28E–.02 207–2 3.5b
TAP II 13 00 49 44.0 25.19N 122.29E 214–0 4.4L
JMA II 13 00 49 45.1–.20 25.16N 122.21E 195–3 4.4
IDC II 13 00 49 47.5–2.2 25.28N 122.14E 238–22 4.0,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s209.00000°,δ43.00000°,λ-141.00000°. NP2:ϕ_s89.00000°,δ65.00000°,λ-54.00000°. $M_0$1.95000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=2.9km az=165.3.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=15.3km s-min=10.9km az=75.0.
ISC II 13 22 22 51.5–2.3 24.7N–.10 122.98E–.03 110–18 39 1-3
ISCJB II 13 22 22 50.9–1.1 24.77N–.07 122.98E–.02 110–10 **¶600528859**
TAP II 13 22 22 50.4 24.79N 122.95E 122–0 3.2L
JMA II 13 22 22 50.0–.20 24.76N 122.97E 123 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=3.6km az=176.3.
TAP C.
JMA Error ellipse: s-maj=5.6km s-min=1.0km az=-1.0.
ISC II 14 04 20 47.4–1.4 24.87N–.03 122.14E–.05 4–10 3.7b 61 0-82
IDC II 14 04 20 46.9–1.0 24.92N 122.27E 0 4.0,3.8 **¶17192220**
ISCJB II 14 04 20 47.5–.77 24.95N–.03 122.14E–.04 4–5 3.7b,3.8
TAP II 14 04 20 47.7 24.92N 122.06E 13–0 3.6L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=58.7km s-min=18.7km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=175.5.
TAP B.
ISC II 14 13 41 52.1–1.2 24.14N–.05 122.62E–.02 45–17 74 0-2
JMA II 14 13 41 50.8–.10 24.13N 122.58E 57–4 2.5 **¶601164692**
ISCJB II 14 13 41 51.6–.37 24.15N–.04 122.62E–.02 48–10 2.5
TAP II 14 13 41 51.9 24.17N 122.57E 56–1 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=2.6km az=173.4.
TAP C.
ISC II 14 21 18 59.4–1.5 24.53N–.05 122.59E–.03 90–10 76 0-3
ISCJB II 14 21 18 58.8–.61 24.55N–.04 122.59E–.02 93–6 **¶600529134**
TAP II 14 21 18 58.4 24.50N 122.64E 87–1 3.3L
JMA II 14 21 18 58.0–.20 24.53N 122.54E 101–2 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.2km az=173.1.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC II 15 07 18 19.6–.21 21.12N–.02 121.19E–.03 39–2 5.4b,5.0s 965 1-175
NIED II 15 07 18 00 21.20N 121.10E 23 5.2W,5.0s **¶16024897**
JMA II 15 07 18 15.1–.70 21.19N 121.10E 0 5.4,5.0s
BJI II 15 07 18 15.0 21.10N 121.15E 10 5.2b,5.2s
GCMT II 15 07 18 17.6–.10 21.10N 120.89E 34–0 5.5W,5.2s
MOS II 15 07 18 17.4–1.0 21.12N 121.25E 36 5.6b,5.0s
NEIC II 15 07 18 17.6–.09 21.10N 121.19E 25 5.7L,5.6b
TAP II 15 07 18 17.8 21.18N 121.20E 71–0 5.5L,5.6b
ISCJB II 15 07 18 17.7–.19 21.088N–.01 121.21E–.01 37–1 5.3b,5.0s
IDC II 15 07 18 18.9–1.2 21.11N 121.26E 36–9 5.0,4.9

ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ37.00000°,λ133.00000°. NP2:ϕ_s139.00000°,δ64.00000°,λ63.00000°. $M_0$8.03000×10^{16}
JMA Error ellipse: s-maj=5.6km s-min=4.1km az=-1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c192; s112,c237;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}1.31±.03 $M_{\theta\theta}$0.22±.02; $M_{\phi\phi}$-1.53±.02; $M_{r\theta}$-0.23±.02; $M_{\theta\phi}$-0.04±.01; $M_{\theta r}$-1.37±.03; Best double couple: NP1: ϕ_s188.00000°,δ67.00000°,λ96.00000°. NP2:ϕ_s353.00000°,δ23.00000°,λ77.00000°. Principal axes: T 1.8870,Plg67.0000°,Azm108.0000°; N 0.2020,Plg5.0000°,Azm5.0000° ; P -2.0890,Plg22.0000°,Azm273.0000° $M_0$1.98800×10^{17}
MOS Error ellipse: s-maj=6.4km s-min=4.0km az=105.1.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=89.0. Felt [III PIVS] at Basco, Philippines. Recorded [2 TAP] in Taitung and [1 TAP] in Pingtung, Taiwan. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.94 $M_{\theta\theta}$0.71 $M_{\phi\phi}$-1.65 $M_{r\theta}$-0.10 $M_{\theta\phi}$0.54 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s192.00000°,δ65.00000°,λ122.00000°. NP2: ϕ_s316.00000°,δ40.00000°,λ41.00000°. Principal axes: T 1.2700,Plg57.0000°,Azm146.0000° ; N 0.6800,Plg29.0000°,Azm357.0000°; P -1.9500,Plg14.0000°,Azm259.0000° $M_0$1.70000×10^{17}
TAP C.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=4.2.
IDC Error ellipse: s-maj=10.5km s-min=7.4km az=67.0.
ISC II 15 13 20 42.9–1.0 24.10N–.02 122.46E–.02 32–9 3.5b 131 1-49
JMA II 15 13 20 42.8–.10 24.06N 122.47E 39–3 3.5 **¶17192304**
ISCJB II 15 13 20 43.7–.21 24.13N–.02 122.48E–.01 35–13 3.4b
TAP II 15 13 20 43.4 24.12N 122.49E 32–2 4.0L
IDC II 15 13 20 47.2–1.6 24.91N 121.29E 0 3.6,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=166.9.
TAP D.
IDC Error ellipse: s-maj=64.8km s-min=25.7km az=68.0.
ISC II 15 20 33 55.2–1.1 24.04N–.03 122.27E–.02 13–9 61 1-2
ISCJB II 15 20 33 56.2–1.0 24.07N–.02 122.28E–.02 13–7 **¶600529442**
TAP II 15 20 33 56.1 24.08N 122.28E 7–1 2.9L
JMA II 15 20 33 56.2–.10 24.02N 122.27E 26–3 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=162.8.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 16 22 31 16.1–1.5 24.88N–.03 122.10E–.07 7–8 3.3b 48 0-46
IDC II 16 22 31 15.0–2.0 24.86N 122.15E 0 3.6,3.5 **¶17192388**
ISCJB II 16 22 31 15.4–.97 24.93N–.03 122.14E–.05 3–5 3.3b,3.5
TAP II 16 22 31 16.0 24.91N 122.01E 2–1 2.9L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=157.7km s-min=24.2km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.3km az=1.6.
TAP D.
ISC II 17 00 53 06.0–1.7 22.62N–.04 122.66E–.03 17–13 85 1-3
JMA II 17 00 53 08.7–.40 22.69N 122.63E 44 3.3 **¶600529844**
TAP II 17 00 53 09.6 22.63N 122.59E 49–0 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
TAP C.
ISC II 19 00 16 17.3–.94 22.87N–.02 121.48E–.03 29–6 86 0-3
ISCJB II 19 00 16 17.0–.38 22.85N–.02 121.53E–.02 28–3 **¶600530487**
JMA II 19 00 16 16.8–.10 22.91N 121.43E 38–3 3.2
TAP II 19 00 16 17.2 22.85N 121.47E 26–0 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=146.1.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
TAP C.
ISC II 19 08 06 31.0–2.0 24.91N–.08 122.11E–.04 122–12 62 0-2
TAP II 19 08 06 30.6 24.95N 122.08E 126–0 3.5L **¶600530564**
JMA II 19 08 06 30.5–.10 24.86N 122.07E 123–2 2.7
ISCJB II 19 08 06 31.1–.76 24.89N–.05 122.13E–.03 120–5 2.7
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC II 19 20 35 16.6–1.1 24.73N–.03 122.51E–.02 4–8 4.2b,3.8s 121 0-95
NIED II 19 20 35 00 24.70N 122.50E 17 4.3W,3.8s **¶16159512**
ISCJB II 19 20 35 16.3–.41 24.84N–.02 122.53E–.01 3–3 4.0b,3.7s
TAP II 19 20 35 17.4 24.77N 122.40E 2–1 4.1L,3.7s
BJI II 19 20 35 17.5 24.85N 122.31E 7 4.5b,4.3L
JMA II 19 20 35 18.0–.10 24.73N 122.48E 31–2 3.9,4.3L
IDC II 19 20 35 27.6–5.0 24.73N 122.37E 104–49 3.9,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s312.00000°,δ88.00000°,λ2.00000°. NP2:ϕ_s222.00000°,δ88.00000°,λ178.00000°. $M_0$3.04000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=3.9.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=14.6km az=67.0.
ISC II 19 20 57 44.2–1.2 24.80N–.07 122.50E–.03 24–13 26 1-2
ISCJB II 19 20 57 44.1–.62 24.81N–.06 122.52E–.03 24–6 **¶600530824**
TAP II 19 20 57 44.3 24.76N 122.43E 7–2 2.6L
JMA II 19 20 57 45.1–.20 24.69N 122.50E 35–4 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=3.6km az=12.1.
TAP D.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
ISC II 19 22 44 28.2–1.4 24.54N–.04 122.46E–.02 85–9 86 0-3
ISCJB II 19 22 44 27.7–.52 24.55N–.03 122.46E–.02 86–5 **¶600530856**
TAP II 19 22 44 27.4 24.59N 122.43E 95–0 3.4L
JMA II 19 22 44 27.2–.10 24.54N 122.41E 91–2 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.6km az=172.1.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 20 00 22 44.6–1.0 23.95N–.02 122.33E–.02 16–8 3.6b 109 1-74
IDC II 20 00 22 39.0–11 23.90N 122.58E 0 3.7,3.7 **¶17192560**
ISCJB II 20 00 22 45.1–.57 23.97N–.02 122.35E–.01 9–4 3.5b,3.7
TAP II 20 00 22 45.3 24.02N 122.31E 9–1 3.5L,3.7
JMA II 20 00 22 45.2–.10 23.93N 122.32E 16–2 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=254.0km s-min=102.0km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=160.6.
TAP D.
ISC II 20 00 58 19.7–1.8 21.66N–.08 121.46E–.03 9–9 90 0-4
TAP II 20 00 58 22.1 21.79N 121.37E 10–0 3.7L **¶600530883**
JMA II 20 00 58 22.3–.30 21.88N 121.31E 44 3.7
ISC Event type ke.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=2.1km az=-1.0.
TAP II 20 22 35 17.6 21.25N 121.89E 180–2 3.5L
¶601165189
TAP D.
TAP II 21 00 33 48.1 24.43N 122.14E 16–0 2.4L
¶602734477
TAP C.
ISC II 22 06 55 43.3–.85 25.10N–.09 122.73E–.07 130–10 3.7b 40 1-82
ISCJB II 22 06 55 42.5–.52 25.04N–.09 122.73E–.06 135–7 3.5b **¶17192683**
JMA II 22 06 55 44.2–.20 24.86N 122.73E 136–2 3.8
IDC II 22 06 55 47.1–5.6 25.00N 122.55E 165–54 3.8s,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=7.0km az=157.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=37.5km s-min=18.4km az=62.0.
ISC II 22 22 11 13.3–1.1 24.21N–.03 122.23E–.02 28–12 64 0-2
ISCJB II 22 22 11 13.0–.42 24.16N–.03 122.25E–.02 21–5 **¶600531763**
JMA II 22 22 11 12.8 24.18N 122.18E 52–1 2.1

TAP II 22 22 11 14.2 24.20N 122.22E 34–0 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.5km az=163.8.
TAP D.
ISC II 23 01 23 24.0–2.0 24.87N–.09 122.76E–.03 129–13 46 0-3
TAP II 23 01 23 23.5 24.94N 122.78E 128–1 3.3L ¶600531807
JMA II 23 01 23 23.5–.20 24.79N 122.75E 137–2 2.3
ISCJB II 23 01 23 24.2–.81 24.84N–.06 122.77E–.03 124–6 2.3
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC II 23 02 49 59.3–1.2 24.02N–.05 122.41E–.02 11–9 34 1-2
ISCJB II 23 02 49 59.9–1.4 24.01N–.04 122.42E–.02 13–11 ¶600531829
JMA II 23 02 49 59.8–.20 24.01N 122.42E 15 2.1
TAP II 23 02 50 01.9 24.08N 122.21E 10–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.2km az=5.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC II 23 18 53 43.2–1.3 24.95N–.05 122.23E–.03 3–11 41 0-2
ISCJB II 23 18 53 42.4–.75 25.00N–.05 122.28E–.03 2–4 ¶600532022
TAP II 23 18 53 43.1 24.97N 122.20E 8–0 2.7L
JMA II 23 18 53 43.1–.10 24.88N 122.21E 0 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=6.2.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 24 05 32 53.2–.65 24.76N–.04 122.71E–.02 135–5 3.7b 154 0-82
ISCJB II 24 05 32 52.9–.24 24.77N–.03 122.70E–.02 137–2 3.6b ¶16398832
NEIC II 24 05 32 53.2–.47 24.84N 122.73E 137–5 4.1b
IDC II 24 05 32 53.1–3.0 24.85N 122.84E 137–29 3.9s,3.9
TAP II 24 05 32 54.3 24.76N 122.69E 131–0 4.2L,3.9
JMA II 24 05 32 54.1–.10 24.74N 122.65E 130–2 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.5km az=165.9.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=8.9km az=90.0.
IDC Error ellipse: s-maj=23.9km s-min=12.0km az=72.0.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 24 07 11 51.3–1.4 24.45N–.06 122.89E–.03 67–9 51 0-3
ISCJB II 24 07 11 50.9–.55 24.45N–.05 122.88E–.02 68–6 ¶600532160
JMA II 24 07 11 50.4–.10 24.47N 122.88E 73–1 2.3
TAP II 24 07 11 51.1 24.40N 122.89E 24–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=3.2km az=179.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC II 24 21 09 20.2–1.3 23.94N–.04 122.47E–.02 20–4 53 1-2
ISCJB II 24 21 09 20.8–.56 23.95N–.04 122.48E–.02 20–5 ¶600532339
JMA II 24 21 09 20.3–.20 23.95N 122.47E 17 2.0
TAP II 24 21 09 21.3 23.98N 122.48E 46–1 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=2.7km az=164.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC II 26 22 43 10.0–.99 24.59N–.05 122.41E–.02 17–8 34 0-2
ISCJB II 26 22 43 10.1–.56 24.68N–.05 122.47E–.02 11–5 ¶600533819
JMA II 26 22 43 10.5 24.54N 122.42E 27–3 2.2
TAP II 26 22 43 12.2 24.58N 122.24E 4–0 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=2.9km az=14.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC II 27 06 20 09.3–1.9 21.43N–.09 122.31E–.04 11–11 82 1-4
JMA II 27 06 20 07.7–.60 21.47N 122.25E 0 4.0 ¶600534282
TAP II 27 06 20 09.8 21.42N 122.29E 16–0 3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.1km az=-1.0.
TAP D.
ISC II 28 19 00 01.7–1.1 24.08N–.03 122.27E–.02 17–9 58 1-2
JMA II 28 19 00 01.9–.10 24.04N 122.26E 21–3 ¶600535191
ISCJB II 28 19 00 02.1–1.1 24.08N–.03 122.28E–.02 14–7
TAP II 28 19 00 02.2 24.10N 122.22E 11–1 2.6L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.6km az=162.8.
TAP D.
ISC III 01 02 16 23.2–1.4 21.97N–.05 121.58E–.04 19–3 56 0-4
ISCJB III 01 02 16 21.6–.79 21.96N–.06 121.70E–.03 2–8 ¶600535313
JMA III 01 02 16 22.0–.30 21.87N 121.63E 24
TAP III 01 02 16 24.0 21.97N 121.46E 9–0 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.5km az=9.0.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
TAP C.
ISC III 01 09 04 06.1–.68 24.66N–.04 122.72E–.02 118–5 3.7b 163 0-90
IDC III 01 09 04 05.2–3.3 24.75N 122.71E 106–30 3.9,3.7 ¶17193053
ISCJB III 01 09 04 05.5–.21 24.67N–.03 122.71E–.02 121–2 3.7b,3.7
JMA III 01 09 04 06.7–.10 24.58N 122.66E 113–2 4.0,3.7
TAP III 01 09 04 07.2 24.63N 122.67E 113–0 4.5L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.9km s-min=14.3km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.0km az=163.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC III 01 19 26 26.3–1.4 24.54N–.05 122.87E–.03 94–9 96 0-3
JMA III 01 19 26 25.0–.20 24.54N 122.83E 105–2 2.6 ¶600535589
TAP III 01 19 26 25.5 24.60N 122.82E 107–0 3.8L
ISCJB III 01 19 26 25.7–.52 24.56N–.04 122.87E–.02 95–5 3.8L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 02 16 26 44.7–1.1 23.01N–.04 122.50E–.03 20–8 61 1-3
ISCJB III 02 16 26 45.4–.77 23.02N–.04 122.51E–.02 26–7 ¶600535845
JMA III 02 16 26 46.1–.20 23.04N 122.50E 38
TAP III 02 16 26 47.8 23.05N 122.36E 74–1 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.2km az=162.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC III 02 17 17 42.9–1.3 24.64N–.04 122.04E–.03 58–8 68 0-2
JMA III 02 17 17 41.9–.20 24.58N 121.99E 65–3 2.6 ¶601165831
ISCJB III 02 17 17 42.5–.49 24.64N–.03 122.04E–.02 60–5 2.6
TAP III 02 17 17 42.3 24.64N 121.98E 62–0 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.3km az=167.0.
TAP C.
ISC III 03 22 42 10.5–3.3 21.08N–.05 122.06E–.04 11–20 4.0b,3.6s 109 1-86
IDC III 03 22 42 09.0–.67 21.01N 121.99E 0 4.1,4.0 ¶16403004
JMA III 03 22 42 09.5–.50 21.24N 121.98E 0 4.3,4.0
NEIC III 03 22 42 10.4–.46 21.03N 121.98E 10 4.3b,4.0
TAP III 03 22 42 12.6 21.17N 121.97E 40–2 4.4L,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.5km s-min=14.9km az=69.0.
JMA Error ellipse: s-maj=4.4km s-min=2.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=7.2km az=82.0.
TAP D.
TAP III 04 21 30 11.8 21.24N 121.84E 172–0 3.5L ¶601165976
TAP D.

ISC III 05 18 08 42.8–1.3 24.60N–.04 122.50E–.02 94–7 115 0-6
JMA III 05 18 08 42.1–.20 24.57N 122.44E 97–2 3.6 ¶600536889
TAP III 05 18 08 42.4 24.58N 122.56E 87–1 4.1L
ISCJB III 05 18 08 42.2–.35 24.62N–.03 122.51E–.02 96–4 4.1L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 06 07 08 49.0–1.5 24.78N–.06 122.51E–.03 21–5 35 1-2
ISCJB III 06 07 08 48.3–1.5 24.83N–.06 122.54E–.02 13–12 ¶600537119
JMA III 06 07 08 49.0–.10 24.73N 122.48E 30–3 2.1
TAP III 06 07 08 49.1 24.77N 122.39E 5–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=3.2km az=10.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
JMA III 06 23 46 08.4–.30 25.34N 122.23E 259–3 4.1 ¶602650212
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
ISC III 07 16 12 21.9–1.1 24.75N–.06 122.47E–.03 15–11 24 1-1
ISCJB III 07 16 12 21.6–.73 24.79N–.06 122.49E–.03 9–6 ¶600537595
JMA III 07 16 12 22.0–.10 24.68N 122.43E 14–3
TAP III 07 16 12 22.2 24.79N 122.49E 14–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.0km az=13.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC III 07 18 32 10.0–.00 24.34N–.02 122.11E–.02 12–8 107 0-2
ISCJB III 07 18 32 11.7–.49 24.37N–.01 122.07E–.02 13–3 ¶600537635
JMA III 07 18 32 11.4–.20 24.32N 121.93E 47–4 2.9
TAP III 07 18 32 12.3 24.40N 121.98E 15–0 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=29.7.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
TAP D.
ISC III 07 20 16 08.5–.96 24.33N–.02 122.05E–.03 27–7 3.7b,3.4s 106 0-83
BJI III 07 20 16 07.3 24.40N 121.94E 10 4.0b,3.8L ¶17193429
ISCJB III 07 20 16 08.8–.52 24.36N–.02 122.11E–.03 17–4 3.6b,3.3s
TAP III 07 20 16 09.2 24.38N 121.98E 26–0 4.2L,3.3s
IDC III 07 20 16 20.1–6.5 24.35N 121.93E 136–63 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.2km az=19.3.
TAP B.
IDC Error ellipse: s-maj=44.5km s-min=15.6km az=67.0.
ISC III 07 20 34 55.8–1.1 24.31N–.02 122.08E–.02 7–9 97 0-2
JMA III 07 20 34 56.5–.20 24.31N 121.93E 48–4 2.6 ¶600537665
ISCJB III 07 20 34 56.7–.41 24.35N–.01 122.06E–.02 11–2 2.6
TAP III 07 20 34 57.3 24.38N 121.99E 15–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=40.3.
TAP D.
ISC III 07 20 40 20.0–.00 24.33N–.02 122.03E–.02 23–8 3.6s,3.5b 112 0-76
IDC III 07 20 40 17.1–1.1 24.04N 121.04E 0 3.7,3.6 ¶17193430
TAP III 07 20 40 20.4 24.38N 121.98E 26–0 4.0L,3.6
ISCJB III 07 20 40 20.8–.32 24.36N–.02 122.06E–.02 16–4 3.5b,3.5s
JMA III 07 20 40 20.7 24.33N 121.95E 35–1 3.4,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=71.4km s-min=18.8km az=68.0.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=153.8.
ISC III 07 21 09 11.5–.97 24.30N–.02 122.02E–.02 18–7 3.2b 107 0-41
IDC III 07 21 08 48.6–68 22.43N 123.48E 0 3.4,3.4 ¶600537680
JMA III 07 21 09 12.2–.20 24.30N 121.90E 51–3 3.2,3.4
TAP III 07 21 09 12.7 24.38N 121.97E 25–0 3.8L,3.4
ISCJB III 07 21 09 12.2–.41 24.35N–.02 122.06E–.02 10–2 3.2b,3.4
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 08 02 45 00.2–.95 24.33N–.02 122.01E–.02 17–8 98 0-2
ISCJB III 08 02 45 00.9–.32 24.37N–.02 122.05E–.02 18–4 ¶600537748
JMA III 08 02 45 00.4–.20 24.31N 121.95E 45–4 3.1
TAP III 08 02 45 00.5 24.38N 121.98E 26–0 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=148.6.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
TAP C.
ISC III 09 12 45 20.7–1.2 24.62N–.05 122.52E–.02 19–3 34 0-2
JMA III 09 12 45 21.5–.10 24.55N 122.53E 29–2 2.2 ¶600538259
TAP III 09 12 45 22.4 24.61N 122.43E 4–1 2.7L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC III 09 14 44 47.9–1.6 24.68N–.07 122.55E–.03 106–10 69 0-2
JMA III 09 14 44 45.9–.20 24.74N 122.49E 117–3 2.6 ¶600538289
TAP III 09 14 44 46.5 24.67N 122.59E 112–1 3.2L
ISCJB III 09 14 44 47.2–.68 24.70N–.04 122.55E–.02 109–5 3.2L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 09 21 01 35.9–2.0 24.93N–.08 122.26E–.03 135–12 66 0-2
TAP III 09 21 01 34.7 24.99N 122.32E 142–1 3.3L ¶600538387
JMA III 09 21 01 35.5–.20 24.85N 122.20E 136–2 2.3
ISCJB III 09 21 01 35.9–.74 24.90N–.05 122.28E–.03 133–5 2.3
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 10 20 57 54.5–1.2 24.54N–.03 122.47E–.02 3–10 83 0-3
ISCJB III 10 20 57 54.9–.43 24.59N–.02 122.46E–.01 2–3 ¶600538731
JMA III 10 20 57 55.7 24.57N 122.42E 27–2 2.8
TAP III 10 20 57 56.4 24.60N 122.34E 7–0 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.1km az=3.3.
TAP D.
ISC III 11 12 05 50.2–.88 24.51N–.03 122.91E–.02 69–5 4.8b 167 0-49
IDC III 11 12 05 46.8–3.6 23.95N 123.38E 0 4.7,4.6 ¶16310114
ISCJB III 11 12 05 49.8–.25 24.51N–.02 122.90E–.01 74–3 4.6b,4.6
JMA III 11 12 05 49.9–.10 24.54N 122.88E 73–1 3.8,4.6
TAP III 11 12 05 50.1 24.52N 122.89E 70–0 4.6L,4.6
NEIC III 11 12 05 50.5 24.49N 122.87E 59 4.8b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=106.4km s-min=29.4km az=110.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=1.9km az=167.8.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP B.
NEIC Event type fe. Recorded [1 TAP] in Hualien and Yilan. After TAP.
TAP III 11 12 15 45.5 22.95N 121.02E 7–1 1.4L ¶601166469
TAP B.
ISC III 11 20 59 08.4–1.3 24.50N–.03 122.15E–.02 65–8 107 0-3
ISCJB III 11 20 59 07.8–.40 24.52N–.02 122.15E–.02 69–5 ¶600540317
TAP III 11 20 59 07.7 24.52N 122.10E 72–0 3.5L
JMA III 11 20 59 07.0–.10 24.44N 122.10E 76–2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.6km az=159.6.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 14 15 25 34.7–1.1 24.76N–.05 122.46E–.03 10–10 33 0-2
JMA III 14 15 25 34.6–.20 24.75N 122.44E 5–4 2.2 ¶600545698
ISCJB III 14 15 25 34.5–.55 24.76N–.04 122.46E–.02 5–4 2.2
TAP III 14 15 25 35.0 24.81N 122.42E 16–0 2.6L
ISC Event type ke.

JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.1km az=15.1.
TAP C.
ISC III 14 17 21 56.1–.84 22.24N–.02 121.50E–.03 12–5 4.5b,3.8s 265 0-86
NIED III 14 17 21 00 22.50N 121.60E 8 4.4W,3.8s **¶16314302**
IDC III 14 17 21 52.7–.56 22.03N 121.48E 0 4.3,4.2
NEIC III 14 17 21 53.6–1.5 22.11N 121.53E 2–9 4.6L,4.6b
BJI III 14 17 21 53.3 22.19N 121.35E 6 4.6b,4.4b
ISCJB III 14 17 21 55.3–.38 22.14N–.01 121.55E–.02 18–3 4.4b,3.9s
TAP III 14 17 21 57.2 22.19N 121.37E 21–0 4.7L,3.9s
JMA III 14 17 21 58.8–.10 22.49N 121.56E 9–2 4.7,3.9s
BKK III 14 17 22 05.0–.70 23N–10 122E–13 133–16 5.2,4.7b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s73.00000°,δ62.00000°,λ-170.00000°. NP2:ϕ_s338.00000°,δ82.00000°,λ-28.00000°. $M_0$5.28000×10^{15}
NEIC Event type fe. Felt at Kaohsiung and Hengchun. Recorded [4 TAP] in Taitung and [2 TAP] in Pingtung.
ISCJB Event type fe.
TAP B.
ISC III 14 20 35 05.6–1.4 24.62N–.05 122.71E–.02 107–8 99 0-4
JMA III 14 20 35 04.7–.20 24.61N 122.64E 113–2 2.2 **¶600546134**
TAP III 14 20 35 04.7 24.67N 122.70E 113–0 3.6L
ISCJB III 14 20 35 05.2–.49 24.62N–.03 122.71E–.02 107–4 3.6L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 15 13 56 53.3–.56 24.47N–.02 122.01E–.02 19–1 77 0-2
ISCJB III 15 13 56 52.7–.41 24.49N–.02 122.09E–.02 3–3 **¶600547861**
JMA III 15 13 56 53.5–.10 24.44N 121.98E 25 2.9
TAP III 15 13 56 54.0 24.49N 121.97E 19–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=165.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC III 16 07 49 51.3–1.0 24.58N–.02 122.44E–.02 14–9 95 0-3
TAP III 16 07 49 50.9 24.63N 122.45E 9–0 3.7L **¶600549955**
ISCJB III 16 07 49 51.2–.44 24.63N–.02 122.48E–.01 5–3 3.7L
JMA III 16 07 49 51.7–.10 24.55N 122.42E 27–4 3.4
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.1km az=7.2.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC III 16 08 10 02.9–1.1 24.56N–.03 122.47E–.02 8–9 68 0-2
TAP III 16 08 10 02.6 24.61N 122.47E 11–1 3.2L **¶600550053**
ISCJB III 16 08 10 02.8–.48 24.60N–.03 122.48E–.02 3–4 3.2L
JMA III 16 08 10 03.6–.10 24.54N 122.42E 28–4 2.9
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=2.4km az=1.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC III 16 12 18 47.4–1.1 24.59N–.05 122.47E–.02 23–14 33 0-2
TAP III 16 12 18 47.9 24.55N 122.43E 7–1 2.8L **¶600550438**
JMA III 16 12 18 48.2–.10 24.53N 122.43E 34–3 2.1
ISCJB III 16 12 18 48.1–.40 24.60N–.05 122.45E–.02 21–7 2.1
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 18 09 32 40.6–2.4 24.9N–.10 122.39E–.04 125–14 41 1-2
JMA III 18 09 32 39.4–.30 24.85N 122.34E 135–3 2.1 **¶600555353**
TAP III 18 09 32 40.3 24.88N 122.55E 114–1 3.3L
ISCJB III 18 09 32 40.5–.95 24.90N–.08 122.40E–.03 124–7 3.3L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 18 12 45 26.7–1.1 22.15N–.03 121.30E–.03 16–9 94 0-7
JMA III 18 12 45 25.3–.20 22.09N 121.13E 51–5 4.0 **¶600555735**
ISCJB III 18 12 45 25.7–.57 22.08N–.03 121.40E–.03 15–5 4.0
TAP III 18 12 45 27.4 22.08N 121.19E 37–0 4.0L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=166.7.
TAP C.
ISC III 18 18 29 19.3–1.3 24.13N–.07 122.50E–.02 23–15 27 1-2
JMA III 18 18 29 19.2–.10 24.08N 122.50E 30–5 1.8 **¶600556185**
ISCJB III 18 18 29 19.9–.92 24.18N–.10 122.50E–.02 29–7 1.8
TAP III 18 18 29 21.1 24.29N 122.42E 20–0 2.5L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=3.4km az=0.4.
TAP D.
JMA III 19 10 31 50.5–.30 25.35N 122.62E 240–4 3.2 ¶600557245
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
ISC III 20 08 00 51.6–.40 22.43N–.02 121.48E–.02 26–2 5.4b,5.2s 879 0-170
NIED III 20 08 00 00 22.40N 121.30E 44 5.5W,5.2s **¶16339573**
JMA III 20 08 00 48.6–.10 22.39N 121.29E 51–2 5.6,5.2s
NEIC III 20 08 00 49.1–.94 22.32N 121.45E 10–5 5.4b,5.2s
ISCJB III 20 08 00 49.3–.32 22.38N–.01 121.54E–.01 18–2 5.3b,5.2s
BJI III 20 08 00 49.0 22.40N 121.40E 30 5.5b,5.3s
MOS III 20 08 00 51.3–1.1 22.42N 121.39E 33 5.7b,5.0s
TAP III 20 08 00 51.2 22.44N 121.38E 27–0 5.8L,5.0s
IDC III 20 08 00 52.9–1.3 22.29N 121.56E 38–10 5.2,5.0
GCMT III 20 08 00 52.8–.20 22.44N 121.34E 27–0 5.4W,5.0
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s348.00000°,δ32.00000°,λ42.00000°. NP2:ϕ_s221.00000°,δ69.00000°,λ115.00000°. $M_0$1.91000×10^{17}
JMA Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.7km s-min=3.1km az=100.0. Felt [III] at Kaohsiung and [II] at Tainan. Also felt at Changhwa, Fengshan, Hengchun, Puli, Taipei and Taitung. Felt in Hong Kong. Recorded [4 TAP] in Taitung; [3 TAP] in Chiayi, Kaohsiung, Tainan and Yunlin; [2 TAP] in Changhua, Hualien, Nantou and Pingtung; [1 TAP] in Miaoli, Penghu and Taichung, Taiwan.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.8km az=26.3.
MOS Error ellipse: s-maj=14.0km s-min=6.9km az=69.4.
TAP B.
IDC Error ellipse: s-maj=9.9km s-min=7.5km az=69.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c112; s110,c216; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.69±.04 $M_{\theta\theta}$0.65±.02; $M_{\phi\phi}$-1.33±.03; $M_{r\theta}$-0.86±.06; $M_{\theta\phi}$-0.85±.02; $M_{\phi r}$-0.23±.05; Best double couple: NP1:ϕ_s237.00000°,δ72.00000°,λ139.00000°. NP2:ϕ_s342.00000°,δ52.00000°,λ23.00000°. Principal axes: T 1.6000,Plg41.0000°,Azm192.0000°; N 0.1610,Plg46.0000°,Azm38.0000°; P -1.7600,Plg13.0000°,Azm294.0000° $M_0$1.68000×10^{17}
ISC III 22 21 12 20.4–1.1 24.24N–.02 122.16E–.02 13–9 109 0-3
JMA III 22 21 12 22.0–.10 24.27N 122.10E 58–2 3.2 **¶600563185**
TAP III 22 21 12 23.0 24.29N 122.12E 38–1 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC III 23 09 02 41.9–1.2 24.14N–.03 122.27E–.02 19–3 65 1-2
ISCJB III 23 09 02 42.7–1.0 24.15N–.02 122.24E–.02 13–7 **¶600563747**
JMA III 23 09 02 43.5 24.11N 122.20E 33–1 2.2
TAP III 23 09 02 44.0 24.24N 122.18E 25–0 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=151.5.
TAP C.
ISC III 23 20 41 11.4–1.0 24.29N–.02 122.08E–.02 14–8 92 0-2
ISCJB III 23 20 41 11.7–.42 24.33N–.02 122.10E–.02 6–3 **¶601167475**
JMA III 23 20 41 12.3 24.27N 122.02E 24–3 2.7
TAP III 23 20 41 12.8 24.35N 122.00E 19–0 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=159.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC III 24 03 13 47.2–1.4 22.08N–.05 121.75E–.04 8–10 54 0-4
ISCJB III 24 03 13 45.6–.84 21.96N–.06 121.85E–.02 5–7 **¶600564824**
JMA III 24 03 13 46.6–.40 22.15N 121.79E 0 3.7
TAP III 24 03 13 46.4 21.95N 121.69E 2–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=3.9km az=179.7.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC III 24 03 22 47.4–1.1 24.57N–.02 122.43E–.02 6–9 94 0-3
TAP III 24 03 22 47.8 24.60N 122.33E 2–0 3.7L **¶600564832**
JMA III 24 03 22 48.5 24.55N 122.37E 25–2 3.4
ISC Event type ke.
TAP D.
ISC III 24 03 24 17.9–.63 22.03N–.04 121.80E–.03 10 3.8b,3.4s 111 0-85
IDC III 24 03 24 15.4–.91 21.82N 122.09E 0 3.9,3.8 **¶16452781**
ISCJB III 24 03 24 16.2–.43 21.90N–.03 121.88E–.02 10 3.8b,3.4s
TAP III 24 03 24 17.7 22.01N 121.73E 3–0 3.9L,3.4s
NEIC III 24 03 24 17.7 22.01N 121.73E 3 4.3b,3.9L
JMA III 24 03 24 18.0–.20 22.15N 121.83E 0 4.0,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=19.9km az=72.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.7km az=169.0.
TAP D.
NEIC Event type fe. Recorded [3 TAP] in Taitung. After TAP.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC III 24 06 12 37.3–1.4 24.56N–.06 122.37E–.02 10–12 26 0-2
TAP III 24 06 12 36.2 24.57N 122.45E 19–1 2.8L **¶600564920**
JMA III 24 06 12 37.6–.10 24.36N 122.34E 24 2.3
ISCJB III 24 06 12 37.7–.65 24.61N–.06 122.39E–.02 10–5 2.3
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 24 11 51 49.5–1.9 24.56N–.08 122.64E–.03 95–15 36 0-2
JMA III 24 11 51 49.3–.20 24.67N 122.66E 95 **¶600565137**
ISCJB III 24 11 51 49.4–.96 24.56N–.06 122.64E–.03 94–9
TAP III 24 11 51 49.4 24.55N 122.70E 84–2 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.0km az=177.0.
TAP D.
ISC III 24 13 10 07.5–.70 22.04N–.04 121.74E–.04 10 3.9b 84 0-85
IDC III 24 13 10 05.7–1.1 21.84N 121.74E 0 3.9,3.7 **¶17198352**
TAP III 24 13 10 05.4 21.82N 121.69E 10–0 4.0L,3.7
JMA III 24 13 10 06.8–.40 21.99N 121.97E 0 4.0,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.0km s-min=23.2km az=85.0.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
ISC III 24 13 38 32.8–.68 22.05N–.04 121.75E–.03 10 3.7b 86 0-85
JMA III 24 13 38 19.9–.20 21.05N 121.30E 83 4.3 **¶17198360**
ISCJB III 24 13 38 30.9–.48 21.90N–.04 121.79E–.03 10 3.6b,2.9s
IDC III 24 13 38 31.9–.85 21.97N 121.77E 0 3.8,3.7
TAP III 24 13 38 31.4 21.90N 121.69E 15–0 4.0L,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=8.3.
IDC Error ellipse: s-maj=23.3km s-min=17.8km az=66.0.
TAP C.
TAP III 24 13 38 42.7 21.95N 121.70E 16–0 4.2L ¶601167516
TAP C.
ISC III 25 00 39 00.2–1.3 24.28N–.03 122.29E–.02 17–10 58 1-2
JMA III 25 00 39 01.3–.10 24.24N 122.23E 57–2 2.7 **¶600565884**
TAP III 25 00 39 01.8 24.37N 122.28E 48–2 3.4L
ISC Event type ke.
TAP D.
ISC III 25 02 13 21.9–.98 24.44N–.02 122.01E–.02 9–8 84 0-2
ISCJB III 25 02 13 21.3–.40 24.42N–.02 122.05E–.02 0–4 **¶600565947**
TAP III 25 02 13 22.1 24.44N 121.96E 13–0 3.7L
JMA III 25 02 13 22.0–.10 24.39N 121.96E 22–5 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=166.4.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 25 05 05 13.3–3.1 22.61N–.06 122.85E–.04 12–23 50 1-3
JMA III 25 05 05 16.0–.20 22.58N 122.87E 56 3.1 **¶600566114**
TAP III 25 05 05 17.3 22.45N 122.72E 79–2 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC III 25 12 37 17.3–1.5 22.05N–.05 121.75E–.04 6–11 76 0-4
ISCJB III 25 12 37 17.2–.76 21.92N–.05 121.80E–.03 14–7 **¶600566503**
TAP III 25 12 37 18.9 21.94N 121.58E 13–0 3.7L
JMA III 25 12 37 19.5–.30 22.09N 121.71E 33 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=3.9km az=175.7.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC III 25 15 29 19.9–1.2 23.99N–.03 122.30E–.02 4–10 74 1-2
JMA III 25 15 29 20.9–.10 23.97N 122.29E 12–3 2.5 **¶600566640**
TAP III 25 15 29 20.7 24.02N 122.29E 9–1 2.8L
ISCJB III 25 15 29 20.8–.55 24.01N–.02 122.31E–.02 5–4 2.8L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 26 09 45 33.5–1.1 23.92N–.04 122.61E–.02 9–10 51 1-2
ISCJB III 26 09 45 34.7–.84 23.96N–.04 122.63E–.02 9–6 **¶600567562**
JMA III 26 09 45 35.3–.20 23.97N 122.62E 17–4 2.4
TAP III 26 09 45 36.9 23.99N 122.59E 49–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.0km az=172.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC III 29 04 28 49.2–1.8 24.61N–.09 122.88E–.03 112–11 52 0-3
JMA III 29 04 28 48.8–.20 24.65N 122.87E 115–2 2.5 **¶600570958**
TAP III 29 04 28 49.5 24.69N 122.82E 115–0 3.4L
ISCJB III 29 04 28 49.1–.79 24.62N–.07 122.88E–.02 110–6 3.4L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 29 14 05 45.2–1.1 24.68N–.03 122.43E–.02 10–9 56 1-2
ISCJB III 29 14 05 45.6–.50 24.71N–.03 122.44E–.02 9–4 **¶600571608**
JMA III 29 14 05 46.5 24.62N 122.40E 30–3 2.0
TAP III 29 14 05 46.8 24.71N 122.26E 3–1 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.6km az=10.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC III 29 19 24 48.7–1.1 22.94N–.02 121.60E–.03 11–9 76 0-3
JMA III 29 19 24 47.9–.10 22.91N 121.67E 12–3 3.2 **¶600572015**
ISCJB III 29 19 24 49.0–.72 22.93N–.02 121.64E–.02 14–4 3.2
TAP III 29 19 24 50.2 22.94N 121.56E 15–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=152.9.
TAP C.
ISC III 29 19 27 38.0–1.1 23.72N–.03 122.15E–.03 29–12 67 1-2
JMA III 29 19 27 37.8–.10 23.74N 122.14E 10 2.4 **¶600572017**
ISCJB III 29 19 27 37.9–.50 23.71N–.02 122.17E–.02 22–4 2.4

TAP III 29 19 27 38.5 23.74N 122.17E 23–0 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.9km az=142.3.
TAP C.
ISC III 30 00 14 38.0–1.4 22.80N–.04 122.64E–.03 4–10 78 1-3
JMA III 30 00 14 40.5–.30 22.69N 122.66E 46 2.8 **¶600572335**
TAP III 30 00 14 42.5 22.73N 122.60E 58–1 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC III 30 11 25 32.3–1.1 24.41N–.02 122.06E–.02 8–9 103 0-2
JMA III 30 11 25 33.8–.10 24.42N 121.91E 46–3 2.7 **¶600572762**
ISCJB III 30 11 25 34.0–.36 24.45N–.02 122.05E–.02 15–4 2.7
TAP III 30 11 25 34.6 24.50N 121.94E 26–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=40.3.
TAP D.
ISC III 30 12 46 19.4–1.4 24.71N–.05 122.07E–.03 59–9 55 0-2
JMA III 30 12 46 18.9–.20 24.68N 122.05E 58–4 2.1 **¶600572854**
ISCJB III 30 12 46 19.1–.63 24.69N–.04 122.08E–.03 60–6 2.1
TAP III 30 12 46 19.2 24.70N 122.04E 59–1 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.9km az=155.0.
TAP D.
ISC III 31 07 53 29.1–1.7 21.93N–.05 121.75E–.04 5–10 75 0-42
ISCJB III 31 07 53 28.7–.79 21.83N–.06 121.85E–.03 12–7 3.6b **¶600573644**
JMA III 31 07 53 28.5–.30 21.86N 121.74E 21 3.8
TAP III 31 07 53 31.1 21.90N 121.59E 10–0 3.9L
IDC III 31 07 53 54.4–3.7 25.66N 121.72E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=3.9km az=174.2.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
IDC Error ellipse: s-maj=275.4km s-min=28.4km az=62.0.
ISC III 31 08 45 06.1–1.1 22.09N–.03 121.74E–.03 7–6 4.3b,4.0s 190 0-147
NIED III 31 08 45 00 21.80N 121.60E 35 4.5W,4.0s **¶16399961**
JMA III 31 08 45 02.7–.20 21.77N 121.55E 73 4.2,4.0s
IDC III 31 08 45 03.9–.63 21.78N 121.59E 0 4.3,4.2
BJI III 31 08 45 05.2 21.94N 121.62E 8 4.4b,4.3b
TAP III 31 08 45 05.2 21.89N 121.62E 12–0 4.4L,4.3b
NEIC III 31 08 45 07.9–.51 22.16N 121.66E 10 4.6b,4.3b
BKK III 31 08 45 20.1–.60 22N–7.0 121E–7.0 10 5.2,4.9
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ15.00000°,λ-64.00000°. NP2:ϕ_s295.00000°,δ76.00000°,λ-97.00000°. $M_0$6.15000×10^{15}
TAP C.
NEIC Event type se.
ISC III 31 08 49 57.6–1.5 21.96N–.04 121.75E–.04 5–9 3.8b 103 0-85
ISCJB III 31 08 49 55.3–.68 21.90N–.03 121.87E–.02 1–4 3.9b **¶16475930**
JMA III 31 08 49 56.3–.40 22.02N 121.71E 2 4.3
TAP III 31 08 49 57.3 21.91N 121.72E 11–0 4.1L
IDC III 31 08 49 57.0–.79 21.87N 121.79E 0 4.0,3.9
NEIC III 31 08 49 58.5–.49 21.92N 121.76E 10 4.1b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=6.7.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
IDC Error ellipse: s-maj=33.4km s-min=15.7km az=65.0.
NEIC Event type fe. Error ellipse: s-maj=15.3km s-min=7.3km az=71.0. Recorded [3 TAP] in Taitung.
ISC III 31 09 28 43.3–1.5 21.93N–.05 121.69E–.04 11–9 3.7b 67 0-44
ISCJB III 31 09 28 41.6–.86 21.84N–.05 121.85E–.03 10–6 3.6b **¶17199278**
IDC III 31 09 28 42.5–1.3 21.86N 121.82E 0 3.9,3.8
JMA III 31 09 28 44.1–.30 22.16N 121.78E 0 3.5,3.8
TAP III 31 09 28 44.0 21.89N 121.57E 11–0 3.7L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.0km az=173.2.
IDC Error ellipse: s-maj=34.1km s-min=24.6km az=61.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC IV 02 04 03 12.9–1.0 23.81N–.03 122.04E–.03 29–11 70 0-3
ISCJB IV 02 04 03 12.8–.41 23.81N–.03 122.07E–.02 27–3 **¶600575707**
JMA IV 02 04 03 12.5–.10 23.80N 122.04E 22–4 2.6
TAP IV 02 04 03 13.7 23.83N 122.03E 33–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.5km az=159.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC IV 04 11 53 31.1–1.1 24.76N–.06 122.51E–.03 14–9 26 1-1
ISCJB IV 04 11 53 31.3–1.9 24.77N–.05 122.51E–.03 12–16 **¶600577370**
TAP IV 04 11 53 31.3 24.80N 122.50E 21–0 2.8L
JMA IV 04 11 53 31.3–.20 24.71N 122.48E 8–5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.1km az=13.2.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 04 12 43 10.4–1.3 24.88N–.06 122.41E–.04 15–11 20 0-1
ISCJB IV 04 12 43 10.5–.90 24.86N–.06 122.40E–.04 4–7 **¶600577396**
JMA IV 04 12 43 10.6–.20 24.82N 122.38E 7
TAP IV 04 12 43 11.4 24.86N 122.29E 5–0 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.8km az=5.7.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC IV 05 00 43 13.2–.66 24.55N–.03 122.85E–.02 87–5 3.7b 207 0-82
ISCJB IV 05 00 43 12.9–.19 24.60N–.02 122.86E–.01 92–2 4.0b **¶16415540**
NEIC IV 05 00 43 13.5–.46 24.68N 122.85E 84–5 4.7b
JMA IV 05 00 43 13.6–.10 24.50N 122.82E 86–1 3.5
TAP IV 05 00 43 14.5 24.54N 122.83E 80–0 4.8L
IDC IV 05 00 43 14.7–3.4 24.75N 122.87E 91–33 4.0s,4.0
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=1.8km az=164.5.
NEIC Event type fe. Error ellipse: s-maj=9.0km s-min=7.0km az=153.0. Recorded [1 TAP] in Hualien, Taichung, Taitung and Yilan.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=22.8km s-min=17.1km az=88.0.
ISC IV 05 08 45 10.1–1.9 21.69N–.07 121.97E–.04 2–11 57 1-4
JMA IV 05 08 45 09.5–.60 21.78N 121.90E 0 3.9 **¶600578019**
TAP IV 05 08 45 12.2 21.71N 121.85E 2–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.
TAP D.
ISC IV 08 03 51 40.9–1.2 24.04N–.05 122.41E–.02 19–3 37 1-2
TAP IV 08 03 51 40.2 24.05N 122.44E 17–0 3.0L **¶600580529**
JMA IV 08 03 51 40.9–.20 24.01N 122.43E 11 2.0
ISCJB IV 08 03 51 41.5–.49 24.04N–.04 122.42E–.02 21–9 2.0
ISC Event type ke.
TAP D.
ISCJB Event type ke.
JMA IV 08 11 55 01.3–.40 21.14N 121.47E 0 4.2 ¶600580874
JMA Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.
ISC IV 08 14 03 12.6–1.2 24.17N–.04 122.62E–.02 23–14 59 0-3
JMA IV 08 14 03 13.1 24.14N 122.61E 43–2 2.3 **¶600580963**
ISCJB IV 08 14 03 14.0–.34 24.21N–.04 122.63E–.02 41–13 2.3
TAP IV 08 14 03 14.0 24.17N 122.53E 19–0 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=2.7km az=173.1.
TAP D.
ISC IV 08 14 28 40.0–2.2 24.8N–.20 122.30E–.04 96–16 26 0-2
ISCJB IV 08 14 28 42.5–1.0 24.6N–.10 122.30E–.03 77–10 **¶600580996**
JMA IV 08 14 28 43.1–.20 24.50N 122.23E 79–3 1.9
TAP IV 08 14 28 43.9 24.60N 122.22E 72–1 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=4.9km az=1.3.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC IV 08 15 50 00.2–.93 23.94N–.05 122.40E–.03 22–10 41 1-2
JMA IV 08 15 49 59.6–.20 23.93N 122.38E 13–4 2.2 **¶600581064**
ISCJB IV 08 15 50 00.6–.55 23.93N–.04 122.42E–.02 22–7 2.2
TAP IV 08 15 50 00.6 23.93N 122.45E 29–0 2.7L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.0km az=160.7.
TAP D.
ISC IV 08 17 00 59.8–1.2 24.13N–.03 122.68E–.02 20–5 82 0-3
JMA IV 08 17 01 01.6–.10 24.25N 122.65E 49–2 2.9 **¶600581122**
TAP IV 08 17 01 02.1 24.15N 122.54E 12–1 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC IV 08 18 49 47.3–1.2 22.16N–.03 121.50E–.04 15–10 58 0-4
ISCJB IV 08 18 49 47.6–.49 22.12N–.03 121.54E–.03 15–5 **¶600581197**
TAP IV 08 18 49 47.4 22.14N 121.43E 14–1 3.0L
JMA IV 08 18 49 49.4–.30 22.37N 121.59E 9 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=179.6.
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 09 15 20 32.6–2.2 24.82N–.10 122.88E–.03 138–14 46 0-2
ISCJB IV 09 15 20 33.7–.81 24.78N–.07 122.88E–.03 126–6 **¶600581959**
TAP IV 09 15 20 33.1 24.97N 122.85E 133–1 3.1L
JMA IV 09 15 20 34.0–.20 24.86N 122.90E 126–3 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=3.8km az=0.2.
TAP C.
JMA Error ellipse: s-maj=5.6km s-min=1.0km az=-1.0.
ISC IV 09 16 25 27.5–1.0 23.93N–.02 122.29E–.02 12–7 4.0b,3.2s 163 1-84
NIED IV 09 16 25 00 24.00N 122.30E 32 4.0W,3.2s **¶17200349**
IDC IV 09 16 25 25.4–.83 24.11N 122.29E 0 4.0,3.9
ISCJB IV 09 16 25 28.6–.64 23.94N–.01 122.33E–.01 13–4 3.9b,3.2s
JMA IV 09 16 25 28.7–.20 23.96N 122.29E 21–4 3.7,3.2s
TAP IV 09 16 25 29.3 24.03N 122.30E 22–0 4.1L,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ5.00000°,λ128.00000°. NP2:ϕ_s59.00000°,δ86.00000°,λ87.00000°. $M_0$1.30000×10^{15}
IDC Error ellipse: s-maj=28.8km s-min=17.5km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=156.6.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC IV 09 18 02 37.8–1.2 24.03N–.04 122.77E–.02 6–10 55 0-2
ISCJB IV 09 18 02 40.0–.73 24.13N–.04 122.76E–.02 10–5 **¶600582096**
JMA IV 09 18 02 40.6–.10 24.17N 122.74E 19–4 2.2
TAP IV 09 18 02 41.6 24.22N 122.69E 18–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=2.6km az=175.1.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC IV 09 18 15 17.9–1.2 23.32N–.03 122.02E–.03 19–3 60 1-2
JMA IV 09 18 15 18.8–.10 23.34N 121.99E 46 2.4 **¶600582104**
TAP IV 09 18 15 19.4 23.31N 122.04E 35–0 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC IV 09 19 43 19.4–1.1 24.56N–.07 122.37E–.03 13–10 30 0-2
TAP IV 09 19 43 17.4 24.51N 122.48E 23–1 2.6L **¶600582157**
ISCJB IV 09 19 43 19.5–1.5 24.59N–.07 122.39E–.02 10–12 2.6L
JMA IV 09 19 43 20.4 24.48N 122.36E 28–3 2.0
ISC Event type ke.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=2.8km az=4.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 09 20 03 57.6–1.1 24.11N–.03 122.27E–.02 19–3 70 1-2
ISCJB IV 09 20 03 58.1–.42 24.08N–.03 122.29E–.02 19–5 **¶601168613**
JMA IV 09 20 03 58.4–.10 24.08N 122.29E 29–4 2.1
TAP IV 09 20 03 58.5 24.12N 122.26E 24–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=161.2.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
ISC IV 10 02 25 42.7–2.3 24.85N–.09 122.30E–.04 99–14 38 0-2
TAP IV 10 02 25 41.1 24.90N 122.29E 109–0 3.2L **¶600582424**
JMA IV 10 02 25 41.8–.40 24.83N 122.29E 104–5 3.2L
ISCJB IV 10 02 25 42.2–1.0 24.85N–.06 122.31E–.04 101–7 3.2L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC IV 10 13 22 48.8–1.4 23.98N–.04 122.29E–.02 21–4 48 1-2
ISCJB IV 10 13 22 49.0–.51 23.97N–.03 122.30E–.02 17–6 **¶601168671**
TAP IV 10 13 22 48.1 24.00N 122.37E 21–1 2.7L
JMA IV 10 13 22 49.1–.20 23.98N 122.28E 25–5 1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=2.9km az=160.3.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 10 16 34 51.9–1.1 23.79N–.02 122.14E–.02 15–9 126 1-3
ISCJB IV 10 16 34 53.2–.34 23.83N–.02 122.17E–.01 21–3 **¶600582940**
JMA IV 10 16 34 53.6–.10 23.83N 122.11E 30–4 2.8
TAP IV 10 16 34 54.5 23.87N 122.12E 36–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=1.8km az=157.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC IV 10 17 16 42.2–1.3 23.32N–.03 122.61E–.02 19–3 91 1-5
JMA IV 10 17 16 43.8–.10 23.32N 122.60E 60 3.2 **¶600582955**
ISCJB IV 10 17 16 44.2–.33 23.32N–.03 122.65E–.02 38–23 3.2
TAP IV 10 17 16 45.0 23.38N 122.61E 56–1 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.3km az=158.1.
TAP C.
ISC IV 11 07 49 03.5–.98 24.10N–.02 122.27E–.02 19–3 3.5b,3.0s 98 1-83
IDC IV 11 07 49 00.2–.97 24.13N 122.38E 0 3.8,3.7 **¶17200537**
NIED IV 11 07 49 00 24.00N 122.30E 14 3.9W,3.7
JMA IV 11 07 49 03.4–.20 24.02N 122.30E 18–4 3.8,3.7
ISCJB IV 11 07 49 04.6–.43 24.10N–.02 122.31E–.02 21–4 3.5b,3.0s
TAP IV 11 07 49 04.1 24.12N 122.25E 10–1 3.7L,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=19.6km az=74.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s55.00000°,δ20.00000°,λ-90.00000°. NP2:ϕ_s235.00000°,δ70.00000°,λ-90.00000°. $M_0$9.20000×10^{14}
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.1km az=157.7.
TAP D.
ISC IV 11 16 52 46.6–1.2 24.04N–.02 122.28E–.02 3–10 85 1-2
ISCJB IV 11 16 52 47.8–.62 24.05N–.02 122.29E–.02 8–4 **¶600583984**
TAP IV 11 16 52 48.4 24.10N 122.26E 17–1 3.1L

JMA IV 11 16 52 48.9–.10 24.03N 122.28E 32–4 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=148.2.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 13 13 15 23.8–1.4 24.66N–.05 122.21E–.03 70–10 64 0-2
TAP IV 13 13 15 22.9 24.69N 122.20E 75–0 2.9L **¶600586642**
JMA IV 13 13 15 22.3–.30 24.66N 122.18E 80–4 1.9
ISCJB IV 13 13 15 23.2–.57 24.66N–.04 122.22E–.02 73–5 1.9
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC IV 13 19 36 30.8–1.5 24.76N–.05 122.01E–.03 88–9 73 0-3
TAP IV 13 19 36 29.4 24.80N 121.99E 97–0 3.0L **¶600586926**
JMA IV 13 19 36 29.9–.10 24.75N 121.97E 90–2 2.0
ISCJB IV 13 19 36 30.1–.65 24.79N–.04 122.00E–.03 92–5 2.0
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC IV 13 20 49 49.5–1.4 24.64N–.05 122.44E–.03 85–9 87 0-3
ISCJB IV 13 20 49 48.7–.56 24.66N–.03 122.44E–.02 90–5 **¶600586964**
TAP IV 13 20 49 48.3 24.69N 122.40E 97–0 3.3L
JMA IV 13 20 49 48.2–.10 24.85N 122.45E 90–3 2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=2.9km az=169.5.
TAP C.
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
ISC IV 14 12 23 41.0–1.2 23.32N–.04 122.10E–.03 26–13 64 1-3
JMA IV 14 12 23 41.8–.20 23.34N 122.05E 47 2.5 **¶600587538**
TAP IV 14 12 23 42.6 23.33N 122.07E 41–0 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
TAP C.
ISC IV 14 18 39 29.6–1.2 24.28N–.05 122.26E–.03 11–11 27 0-2
ISCJB IV 14 18 39 29.7–.66 24.27N–.05 122.25E–.02 9–5 **¶600587885**
JMA IV 14 18 39 29.6–.10 24.17N 122.23E 25–3 1.9
TAP IV 14 18 39 30.2 24.31N 122.18E 9–0 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.2km az=5.6.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC IV 14 22 23 53.5–1.3 24.74N–.06 122.62E–.03 1–15 29 0-2
ISCJB IV 14 22 23 53.2–.96 24.87N–.08 122.63E–.04 2–6 **¶600588113**
JMA IV 14 22 23 53.1–.10 24.90N 122.62E 12–2 2.1
TAP IV 14 22 23 56.7 24.73N 122.38E 2–1 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=3.4km az=18.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC IV 14 23 57 36.1–.92 24.94N–.09 122.8E–.10 16 3.4b 13 1-82
ISCJB IV 14 23 57 34.8–.73 24.97N–.09 122.7E–.10 16 3.3b **¶17201074**
JMA IV 14 23 57 34.8–.30 24.98N 122.71E 20–4 2.7
IDC IV 14 23 57 59.7–6.7 24.70N 122.18E 241–70 3.5,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=6.0km az=139.5.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=47.4km s-min=23.4km az=63.0.
ISC IV 15 15 27 41.4–1.0 24.12N–.03 122.76E–.02 31–11 133 0-4
ISCJB IV 15 15 27 42.7–.23 24.19N–.02 122.81E–.01 39–9 **¶600589013**
TAP IV 15 15 27 42.4 24.23N 122.79E 53–1 3.9L
JMA IV 15 15 27 42.2–.10 24.23N 122.77E 50–2 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.0km az=170.7.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC IV 16 08 53 53.6–1.2 24.31N–.03 122.17E–.02 1–10 70 0-2
ISCJB IV 16 08 53 54.7–.44 24.34N–.02 122.13E–.02 3–4 **¶600589629**
JMA IV 16 08 53 55.4–.10 24.30N 122.04E 23–4 2.7
TAP IV 16 08 53 56.1 24.37N 122.00E 20–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=168.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC IV 16 13 39 51.7–1.1 23.96N–.02 122.83E–.02 6–7 4.1b,3.4s 198 1-96
IDC IV 16 13 39 51.0–.54 24.15N 122.96E 0 4.1,4.0 **¶16591743**
BJI IV 16 13 39 53.1 23.95N 122.87E 12 4.5b,4.1b
TAP IV 16 13 39 53.4 24.01N 122.90E 26–0 4.7L,4.1b
JMA IV 16 13 39 53.7–.20 24.00N 122.85E 20–3 4.6,4.1b
NEIC IV 16 13 39 55.9–.46 24.03N 122.83E 35 4.0b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=16.5km s-min=12.4km az=83.0.
TAP C.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=7.4km az=142.0. Recorded [1 TAP] in Yilan. Recorded [1 JMA] on Yonaguni-jima, Ryukyu Islands.
ISC IV 16 21 54 16.7–2.6 25.1N–.10 122.77E–.04 180–17 42 1-2
TAP IV 16 21 54 16.7 25.26N 122.80E 173–1 3.4L **¶600590216**
ISCJB IV 16 21 54 17.7–1.0 25.09N–.09 122.78E–.03 168–7 3.4L
JMA IV 16 21 54 18.3–.30 25.12N 122.76E 165 2.5
ISC Event type ke.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=4.4km az=179.4.
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
ISC IV 17 08 35 25.7–1.2 23.43N–.03 122.28E–.03 8–10 99 1-4
JMA IV 17 08 35 27.8–.10 23.45N 122.23E 26 2.6 **¶600590629**
TAP IV 17 08 35 29.2 23.45N 122.24E 28–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
TAP IV 17 16 08 52.5 22.91N 121.02E 14–1 2.6L
¶601169209
TAP A.
TAP IV 17 16 08 59.0 22.88N 121.01E 5–1 2.6L
¶601169212
TAP B.
ISC IV 18 09 29 30.6–1.1 23.62N–.02 122.11E–.02 14–9 84 1-3
ISCJB IV 18 09 29 31.3–.44 23.61N–.02 122.15E–.02 18–4 **¶600591459**
JMA IV 18 09 29 31.7–.10 23.62N 122.08E 32–5 2.6
TAP IV 18 09 29 32.4 23.66N 122.07E 17–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.3km az=144.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC IV 18 14 14 02.4–1.6 24.95N–.08 122.88E–.04 15–11 23 1-3
JMA IV 18 14 14 02.8–.30 24.97N 122.88E 19–5 2.3 **¶600591643**
ISCJB IV 18 14 14 03.2–.92 24.93N–.06 122.89E–.04 15–9 2.3
TAP IV 18 14 14 03.2 24.92N 122.87E 22–1 2.7L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=4.9km az=15.4.
TAP D.
ISC IV 18 22 06 29.8–1.1 24.53N–.02 122.38E–.02 9–9 101 0-3
ISCJB IV 18 22 06 29.8–.43 24.57N–.02 122.40E–.01 4–3 **¶600591972**
TAP IV 18 22 06 30.5 24.59N 122.34E 8–0 3.4L
JMA IV 18 22 06 30.8 24.49N 122.34E 29–4 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.1km az=0.2.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 20 01 19 45.0–.99 23.90N–.02 122.35E–.02 16–7 3.9b 131 1-83
NIED IV 20 01 19 00 23.90N 122.30E 5 3.8W **¶16577851**

IDC IV 20 01 19 43.0–1.2 24.10N 122.40E 0 3.9,3.8
TAP IV 20 01 19 45.5 23.93N 122.28E 5–1 3.8L,3.8
ISCJB IV 20 01 19 46.6–.38 23.91N–.02 122.34E–.01 18–3 3.8b,3.8
JMA IV 20 01 19 46.2–.10 23.92N 122.29E 21–3 3.6,3.8
NEIC IV 20 01 19 46.8–1.6 24.05N 122.31E 25–11 4.0b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ36.00000°,λ167.00000°. NP2:ϕ_s219.00000°,δ83.00000°,λ55.00000°. M$_0$5.07000×10^{14}
IDC Error ellipse: s-maj=56.7km s-min=25.3km az=62.0.
TAP D.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=1.9km az=158.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.7km az=117.0.
ISC IV 20 01 35 57.6–.70 22.00N–.04 121.75E–.03 10 3.7b 85 0-85
NIED IV 20 01 35 00 22.10N 121.80E 32 4.1W **¶17201570**
ISCJB IV 20 01 35 55.8–.47 21.91N–.03 121.83E–.02 10 3.7b,3.2s
TAP IV 20 01 35 56.8 21.86N 121.66E 13–0 3.9L,3.2s
JMA IV 20 01 35 57.9–.20 22.13N 121.78E 8 4.0,3.2s
IDC IV 20 01 36 03.7–9.7 21.71N 121.74E 61–89 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s167.00000°,δ58.00000°,λ23.00000°. NP2:ϕ_s64.00000°,δ71.00000°,λ145.00000°. M$_0$1.44000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.7km az=170.4.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=43.1km s-min=24.9km az=66.0.
ISC IV 20 13 38 01.0–1.4 24.61N–.05 122.39E–.02 87–9 90 0-3
TAP IV 20 13 37 59.9 24.69N 122.37E 97–0 3.4L **¶600593890**
JMA IV 20 13 37 59.6–.20 24.63N 122.35E 96–2 2.0
ISCJB IV 20 13 38 00.3–.55 24.64N–.04 122.39E–.02 91–5 2.0
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC IV 20 14 35 14.2–1.4 24.60N–.05 122.81E–.03 111–8 91 0-4
JMA IV 20 14 35 13.8–.10 24.62N 122.77E 113–2 3.2 **¶600593977**
ISCJB IV 20 14 35 14.1–.47 24.59N–.04 122.82E–.02 109–4 3.2
TAP IV 20 14 35 14.0 24.65N 122.76E 119–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=2.5km az=168.2.
TAP C.
ISC IV 21 11 16 21.9–1.6 24.74N–.06 122.37E–.03 105–10 71 0-3
TAP IV 21 11 16 21.0 24.77N 122.36E 111–0 3.3L **¶600594945**
JMA IV 21 11 16 20.5–.20 24.76N 122.33E 112–2 2.3
ISCJB IV 21 11 16 21.4–.62 24.75N–.04 122.38E–.02 107–5 2.3
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC IV 21 14 15 36.7–1.1 23.94N–.03 122.63E–.02 14–9 83 1-2
ISCJB IV 21 14 15 38.2–.42 23.98N–.03 122.64E–.02 16–5 **¶600595115**
JMA IV 21 14 15 38.6–.10 24.03N 122.62E 24–3 2.2
TAP IV 21 14 15 39.3 24.07N 122.65E 46–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.6km az=166.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC IV 22 11 55 03.1–1.1 24.09N–.03 122.27E–.02 12–9 63 1-2
ISCJB IV 22 11 55 05.4–.41 24.15N–.03 122.24E–.02 22–5 **¶600596101**
TAP IV 22 11 55 05.3 24.19N 122.20E 18–0 2.9L
JMA IV 22 11 55 05.3–.10 24.08N 122.21E 39–3 1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.6km az=156.1.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 22 19 11 38.8–1.2 24.00N–.03 122.42E–.02 19–3 68 1-2
ISCJB IV 22 19 11 38.8–.75 23.98N–.02 122.43E–.02 8–6 **¶600596522**
JMA IV 22 19 11 39.4–.20 23.99N 122.43E 10 2.3
TAP IV 22 19 11 40.4 24.05N 122.40E 21–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=156.1.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
ISC IV 24 03 44 52.4–1.2 24.35N–.06 122.91E–.03 47–8 36 0-2
ISCJB IV 24 03 44 51.8–.46 24.34N–.05 122.91E–.02 50–6 **¶600597819**
JMA IV 24 03 44 52.3–.10 24.38N 122.93E 50–1 2.2
TAP IV 24 03 44 53.3 24.35N 122.75E 22–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=3.2km az=1.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
IDC IV 24 04 19 33.0–.98 21.07N 121.38E 0 3.8,3.7b
¶17201925
IDC Error ellipse: s-maj=75.6km s-min=18.9km az=66.0.
ISC IV 24 06 26 00.2–1.2 22.05N–.06 121.59E–.04 18 35 0-4
ISCJB IN 24 06 25 59.7–.84 22.03N–.06 121.67E–.03 18 **¶600597911**
TAP IV 24 06 25 59.3 22.01N 121.57E 20–0 2.9L
JMA IV 24 06 26 02.4–.50 22.21N 121.73E 21 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=3.9km az=162.4.
TAP D.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
ISC IV 24 08 04 26.0–1.4 24.55N–.05 122.28E–.03 61–11 48 0-2
JMA IV 24 08 04 24.9–.20 24.51N 122.24E 70–3 2.1 **¶600597971**
ISCJB IV 24 08 04 25.3–.68 24.58N–.04 122.28E–.02 66–7 2.1
TAP IV 24 08 04 25.4 24.59N 122.25E 64–1 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.4km az=173.9.
TAP D.
ISC IV 24 16 21 51.5–1.1 24.29N–.02 122.11E–.02 11–9 90 0-2
ISCJB IV 24 16 21 51.9–.45 24.33N–.02 122.12E–.02 7–3 **¶600598315**
JMA IV 24 16 21 52.6 24.28N 122.03E 40–2 2.1
TAP IV 24 16 21 52.8 24.38N 122.02E 27–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=160.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC IV 24 22 53 38.9–.43 21.04N–.02 121.07E–.03 31–2 4.8b,4.3s 482 1-170
NIED IV 24 22 53 00 21.00N 120.90E 26 4.9W,4.3s **¶16453180**
JMA IV 24 22 53 31.7–.60 20.97N 120.94E 0 4.8,4.3s
BJI IV 24 22 53 36.7 21.21N 120.99E 15 4.8b,4.6s
NEIC IV 24 22 53 37.1–.18 21.03N 121.23E 21 5.0b,4.6s
MOS IV 24 22 53 37.1–1.2 21.04N 121.32E 33 5.1b,4.6s
TAP IV 24 22 53 37.8 21.04N 120.70E 47–1 4.9L,4.6s
ISCJB IV 24 22 53 38.0–.25 21.07N–.01 121.14E–.02 36–2 4.7b,4.3s
IDC IV 24 22 53 39.6–1.8 21.02N 121.29E 40–15 4.4,4.3
BKK IV 24 22 53 45.4–.30 21N–4.0 121E–4.0 86 5.6,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ44.00000°,λ99.00000°. NP2:ϕ_s163.00000°,δ47.00000°,λ81.00000°. M$_0$2.29000×10^{16}
NEIC Event type se.
TAP D.
ISCJB Event type se.
ISC IV 25 01 24 52.4–1.6 24.5N–.10 122.51E–.03 59–14 23 0-2
JMA IV 25 01 24 51.9–.10 24.35N 122.51E 61–1 1.6 **¶600598665**
ISCJB IV 25 01 24 52.1–.88 24.4N–.10 122.52E–.03 59–11 1.6
TAP IV 25 01 24 53.5 24.56N 122.46E 41–1 2.6L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=4.2km az=0.7.
TAP D.

ISC IV 27 01 25 02.2–1.9 24.73N–.07 122.86E–.03 114–12 49 0-2
ISCJB IV 27 01 25 01.9–.81 24.75N–.05 122.86E–.03 112–7 ¶600600364
TAP IV 27 01 25 01.2 24.74N 122.90E 116–1 3.4L
JMA IV 27 01 25 01.3–.20 24.67N 122.85E 123–2 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=3.8km az=3.0.
TAP C.
JMA Error ellipse: s-maj=5.6km s-min=1.0km az=-1.0.
ISC IV 27 19 51 41.6–1.3 22.31N–.03 121.38E–.03 14–9 80 0-4
JMA IV 27 19 51 40.5–.30 22.35N 121.67E 0 ¶600600954
TAP IV 27 19 51 42.1 22.29N 121.34E 61–1 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP B.
TAP IV 28 05 19 17.2 21.23N 121.88E 182–0 3.7L
¶601170002
TAP D.
ISC IV 28 18 22 13.3–1.5 24.62N–.06 122.63E–.03 103–10 85 0-3
ISCJB IV 28 18 22 12.8–.62 24.61N–.04 122.64E–.02 104–5 ¶600601753
TAP IV 28 18 22 12.2 24.70N 122.61E 112–0 3.5L
JMA IV 28 18 22 12.0–.20 24.64N 122.58E 110–2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=2.8km az=168.9.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC IV 29 05 24 29.4–1.2 24.78N–.07 122.50E–.02 10–12 30 1-2
ISCJB IV 29 05 24 29.7–.53 24.72N–.05 122.49E–.02 3–5 ¶600602239
JMA IV 29 05 24 29.9–.20 24.71N 122.47E 9–4 2.2
TAP IV 29 05 24 31.6 24.74N 122.34E 7–1 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=2.9km az=10.3.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC IV 29 07 30 10.8–1.3 24.75N–.07 122.51E–.03 19–3 21 0-1
ISCJB IV 29 07 30 11.2–.61 24.74N–.07 122.51E–.03 22–11 ¶600602317
JMA IV 29 07 30 11.0–.20 24.73N 122.48E 6–4 2.2
TAP IV 29 07 30 12.3 24.76N 122.40E 19–1 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.0km az=17.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC IV 29 11 12 12.3–1.0 24.35N–.03 122.02E–.02 20–2 50 0-2
ISCJB IV 29 11 12 12.5–.34 24.34N–.03 122.04E–.02 24–5 ¶600602461
JMA IV 29 11 12 12.2–.10 24.31N 121.99E 39–3 2.3
TAP IV 29 11 12 12.5 24.35N 121.99E 16–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.9km az=158.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC IV 29 12 29 14.4–.65 24.70N–.03 122.83E–.02 107–5 3.7b 187 0-82
BJI IV 29 12 29 12.4 24.71N 122.72E 10 4.0b,3.9L ¶16486672
ISCJB IV 29 12 29 14.0–.20 24.76N–.02 122.84E–.01 111–2 3.7b,3.9L
JMA IV 29 12 29 14.8–.10 24.62N 122.78E 107–2 3.8,3.9L
TAP IV 29 12 29 15.6 24.69N 122.81E 99–0 4.9L,3.9L
IDC IV 29 12 29 15.9–2.9 24.96N 122.71E 112–28 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=1.9km az=163.7.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=20.0km s-min=14.3km az=79.0.
ISC IV 29 13 12 47.4–.28 21.20N–.02 122.03E–.03 195–2 5.5b 1389 1-175
NIED IV 29 13 12 00 21.10N 121.90E 110 5.2W ¶16483657
BJI IV 29 13 12 43.4 21.12N 122.29E 177 5.5b,5.4b
NEIC IV 29 13 12 45.0–.00 21.18N 121.98E 177 5.5b,5.4b
GCMT IV 29 13 12 46.2–.10 21.24N 121.92E 185–1 5.3W,5.4b
ISCJB IV 29 13 12 46.2–.12 21.22N–.01 122.00E–.01 189–1 5.5b,5.4b
JMA IV 29 13 12 46.3–.30 21.14N 121.90E 175 5.3,5.4b
NEIC IV 29 13 12 46.2–.33 21.13N 122.01E 181–3 5.5b,5.4W
MOS IV 29 13 12 46.1–.90 21.20N 122.08E 194 5.6b,4.1s
IDC IV 29 13 12 48.6–.73 21.14N 122.12E 206–6 5.6,5.1
BKK IV 29 13 12 48.1–.60 21N–4.0 122E–5.0 205–7 6.2,5.4b
TAP IV 29 13 12 48.3 21.35N 122.07E 178–1 5.9L,5.4b
MAN IV 29 13 12 50 20.91N 121.89E 183 5.7b,5.1s
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s214.00000°,δ52.00000°,λ174.00000°. NP2:ϕ_s307.00000°,δ86.00000°,λ38.00000°. $M_0$7.41000×10^{16}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ75.00000°,λ-59.00000°. NP2:ϕ_s181.00000°,δ33.00000°,λ-152.00000°. Principal axes: T 1.0700,Plg23.0000°,Azm134.0000°; N 0.0900,Plg29.0000°,Azm239.0000°; P -1.1600,Plg50.0000°,Azm11.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c139; s116,c204; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.53±.02 $M_{\theta\theta}$-0.15±.02; $M_{\phi\phi}$0.68±.02; $M_{r\theta}$-0.92±.01; $M_{\theta\phi}$0.59±.02; $M_{\phi r}$-0.25±.02; Best double couple: NP1:ϕ_s62.00000°,δ75.00000°,λ-56.00000°. NP2:ϕ_s173.00000°,δ36.00000°,λ-154.00000°. Principal axes: T 1.2630,Plg23.0000°,Azm127.0000°; N 0.0340,Plg32.0000°,Azm233.0000°; P -1.2960,Plg49.0000°,Azm9.0000° $M_0$1.28000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=2.1.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.8km az=96.0. Felt [II] at Kaohsiung. Also felt at Chungli, Fengyuan, Taichung, Tainan, Taipei and Tanshui. Felt [III PIVS] at Basco, Philippines. Also felt at Ballesteros. Recorded [2 TAP] at Changua, Chiayi, Kaoshiung, Pingtung, Taichung, Tainan, Taitung and Yunlin; [1 TAP] at Nantou and Penghu. Moment Tensor Solution. Best double couple: NP1:ϕ_s51.00000°,δ63.00000°,λ-60.00000°. NP2: ϕ_s179.00000°,δ39.00000°,λ-135.00000°. Principal axes: T 1.4000,Plg13.0000°,Azm120.0000°; N -0.0100,Plg27.0000°,Azm217.0000°; P -1.3900,Plg60.0000°,Azm6.0000°
MOS Error ellipse: s-maj=6.3km s-min=3.7km az=110.1.
IDC Error ellipse: s-maj=6.7km s-min=4.7km az=62.0.
TAP C.
MAN Event type fe. INTENSITY III - BASCO BATANES.
ISC IV 30 00 14 04.1–1.8 24.66N–.07 122.54E–.03 97–13 48 0-2
ISCJB IV 30 00 14 03.6–.77 24.67N–.05 122.55E–.02 98–7 ¶600603041
TAP IV 30 00 14 03.1 24.71N 122.52E 107–0 3.3L
JMA IV 30 00 14 03.3–.10 24.56N 122.53E 106–2 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=3.7km az=179.0.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC IV 30 20 01 55.2–.92 23.99N–.04 122.66E–.02 20–9 53 1-2
ISCJB IV 30 20 01 57.1–.58 24.02N–.03 122.66E–.02 33–5 ¶600603568
JMA IV 30 20 01 57.1–.10 24.06N 122.63E 38–4 1.5
TAP IV 30 20 01 57.6 24.07N 122.63E 48–2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=163.4.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC V 01 13 07 14.6–1.0 24.30N–.02 122.11E–.02 14–9 82 0-2
ISCJB V 01 13 07 14.9–.47 24.32N–.02 122.11E–.02 8–3 ¶600604053
TAP V 01 13 07 15.7 24.37N 122.02E 26–0 2.9L
JMA V 01 13 07 15.4–.10 24.25N 122.02E 44–4 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=156.2.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
JMA V 01 22 26 22.8–.20 25.64N 122.41E 267–4 3.8
¶600604372
JMA Error ellipse: s-maj=6.7km s-min=1.0km az=-1.0.
ISC V 02 08 23 22.4–1.1 24.69N–.03 122.50E–.02 3–8 4.1b 113 0-95
NIED V 02 08 23 00 24.70N 122.40E 8 3.9W ¶17202600
ISCJB V 02 08 23 23.4–.40 24.78N–.02 122.49E–.01 8–2 3.8b
JMA V 02 08 23 24.7 24.66N 122.42E 34–2 3.6
TAP V 02 08 23 24.7 24.75N 122.28E 1–0 4.0L
IDC V 02 08 23 31.7–7.2 24.76N 122.40E 78–69 3.9,3.8
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ19.00000°,λ-97.00000°. NP2:ϕ_s283.00000°,δ71.00000°,λ-88.00000°. $M_0$8.62000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=5.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
IDC Error ellipse: s-maj=42.5km s-min=14.6km az=79.0.
ISC V 03 05 48 27.6–.93 21.94N–.05 121.00E–.03 47–6 3.6b 93 0-44
NIED V 03 05 48 00 22.00N 120.90E 65 4.1W ¶17202658
IDC V 03 05 48 21.0–2.0 21.93N 121.30E 0 3.8,3.7
JMA V 03 05 48 25.7–.20 21.97N 120.92E 49–5 4.1,3.7
ISCJB V 03 05 48 27.1–.52 21.95N–.04 121.07E–.03 48–3 3.6b,3.7
TAP V 03 05 48 27.5 21.99N 120.96E 42–0 4.0L,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s217.00000°,δ24.00000°,λ-51.00000°. NP2:ϕ_s356.00000°,δ71.00000°,λ-106.00000°. $M_0$1.86000×10^{15}
IDC Error ellipse: s-maj=167.0km s-min=26.2km az=64.0.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=175.0.
TAP C.
ISC V 03 06 51 23.9–1.3 22.54N–.03 122.14E–.03 7–10 92 1-4
ISCJB V 03 06 51 25.6–.58 22.46N–.03 122.18E–.02 23–5 ¶600605475
JMA V 03 06 51 26.0–.20 22.59N 122.11E 15 3.5
TAP V 03 06 51 26.7 22.38N 122.17E 33–1 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.7km az=158.7.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 04 03 30 01.0–1.9 24.93N–.09 122.32E–.03 131–11 56 0-3
TAP V 04 03 30 00.7 25.03N 122.28E 133–1 3.7L ¶600606296
JMA V 04 03 30 00.4–.20 24.83N 122.28E 137–3 2.6
ISCJB V 04 03 30 01.3–.79 24.91N–.06 122.34E–.02 126–5 2.6
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC V 04 17 04 17.1–1.1 24.16N–.02 122.20E–.02 3–10 117 0-3
ISCJB V 04 17 04 18.1–.41 24.21N–.02 122.20E–.01 6–3 ¶600606678
TAP V 04 17 04 18.6 24.27N 122.13E 7–0 3.6L
JMA V 04 17 04 18.9–.10 24.16N 122.11E 44–3 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=165.6.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC V 05 08 01 23.5–1.3 24.14N–.03 122.16E–.03 21–4 59 0-2
JMA V 05 08 01 23.8 24.10N 122.12E 38–2 2.4 ¶600607152
ISCJB V 05 08 01 24.3–.40 24.18N–.03 122.15E–.02 31–3 2.4
TAP V 05 08 01 24.3 24.20N 122.13E 25–0 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=159.6.
TAP D.
ISC V 05 16 27 04.4–1.6 22.11N–.04 121.51E–.05 8–9 3.5b 88 0-85
IDC V 05 16 27 03.0–1.3 21.86N 121.55E 0 3.7s,3.7 ¶17202867
ISCJB V 05 16 27 06.3–.49 22.17N–.03 121.49E–.03 19–4 3.4b,3.7
TAP V 05 16 27 06.8 22.24N 121.46E 22–0 3.8L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=44.8km s-min=21.5km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=160.3.
TAP B.
ISC V 05 18 47 48.8–1.9 21.15N–.04 122.07E–.03 10–12 4.4b 211 1-86
IDC V 05 18 47 46.7–.58 20.94N 121.85E 0 4.4,4.3 ¶16578006
TAP V 05 18 47 47.1 21.03N 122.09E 28–2 4.4L,4.3
ISCJB V 05 18 47 48.7–.63 21.14N–.02 122.16E–.02 21–5 4.3b,4.3
MOS V 05 18 47 49.9–1.0 20.99N 121.92E 33 4.6b,4.3
JMA V 05 18 47 50.8–.40 21.52N 122.08E 0 4.3,4.3
NEIC V 05 18 47 52.0–.48 21.07N 121.97E 35 4.5b,4.3
BKK V 05 18 47 52.1–.90 21N–5.0 123E–11 10 5.5b,5.0
MAN V 05 18 48 17 18.94N 121.59E 1 4.8b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=13.2km az=77.0.
TAP D.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.8km az=179.5.
MOS Error ellipse: s-maj=12.9km s-min=7.1km az=98.8.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.4km az=82.0.
ISC V 05 19 30 47.0–1.1 24.81N–.03 122.58E–.02 8–9 91 0-3
JMA V 05 19 30 48.9 24.71N 122.52E 32–2 2.6 ¶600607476
TAP V 05 19 30 49.3 24.78N 122.52E 12–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 06 10 02 31.0–1.4 24.27N–.07 122.89E–.03 75–10 53 0-2
ISCJB V 06 10 02 30.7–.58 24.26N–.05 122.88E–.02 75–7 ¶600607899
JMA V 06 10 02 30.5–.10 24.27N 122.88E 80–2 2.0
TAP V 06 10 02 30.7 24.31N 122.89E 71–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=3.3km az=175.1.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
ISC V 06 13 58 11.2–1.1 24.75N–.03 122.50E–.02 9–9 49 0-2
JMA V 06 13 58 11.1–.10 24.73N 122.49E 9–4 2.2 ¶600608119
TAP V 06 13 58 12.2 24.75N 122.40E 8–1 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 06 14 42 26.9–1.7 21.92N–.07 121.75E–.04 15–9 51 0-4
ISCJB V 06 14 42 25.5–.93 21.85N–.06 121.87E–.03 9–6 ¶600608170
TAP V 06 14 42 26.6 21.82N 121.61E 4–0 3.1L
JMA V 06 14 42 26.0–.50 21.77N 121.70E 82 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=3.8km az=171.4.
TAP C.
JMA Error ellipse: s-maj=4.4km s-min=2.1km az=-1.0.
ISC V 06 19 51 31.5–1.2 24.36N–.02 122.03E–.03 13–10 66 0-2
JMA V 06 19 51 31.9–.20 24.34N 121.95E 42–4 1.8 ¶601171174
ISCJB V 06 19 51 32.1–.58 24.36N–.02 122.05E–.02 13–4 1.8
TAP V 06 19 51 32.5 24.41N 121.97E 25–0 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=156.7.
TAP D.
ISC V 07 04 57 32.6–.84 24.73N–.04 122.55E–.02 122–5 3.0b 126 0-82
ISCJB V 07 04 57 32.7–.39 24.71N–.03 122.55E–.02 120–3 3.1b ¶17202971
JMA V 07 04 57 32.8–.10 24.70N 122.50E 119–2 2.9
TAP V 07 04 57 33.0 24.76N 122.53E 120–0 3.9L
IDC V 07 04 57 46.6–8.5 24.76N 123.88E 234–62 3.5,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.6km az=167.1.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
IDC Error ellipse: s-maj=310.1km s-min=20.6km az=92.0.
ISC V 07 08 33 02.3–1.1 24.76N–.06 122.51E–.02 13–9 33 1-2
ISCJB V 07 08 33 02.1–.62 24.77N–.05 122.52E–.02 6–5 ¶600608851
JMA V 07 08 33 03.0–.10 24.70N 122.50E 13–3 1.8
TAP V 07 08 33 04.1 24.71N 122.42E 30–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=2.8km az=11.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.

ISC V 07 08 35 33.0–1.1 24.44N–.02 122.03E–.02 2–7 3.9b,3.2s 182 0-82
NIED V 07 08 35 00 24.40N 121.90E 5 4.2W,3.2s **¶16498621**
NEIC V 07 08 35 32.9–.97 24.37N 121.99E 1–8 4.2b,3.2s
BJI V 07 08 35 32.6 24.54N 121.97E 6 4.4b,4.3b
ISCJB V 07 08 35 32.3–.30 24.48N–.01 122.07E–.01 1–2 3.9b,3.2s
JMA V 07 08 35 33.0–.10 24.42N 121.95E 12 4.2,3.2s
TAP V 07 08 35 33.4 24.47N 121.97E 13–0 4.5L,3.2s
IDC V 07 08 35 47.3–5.1 24.44N 122.07E 132–49 3.9,3.6
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s286.00000°,δ43.00000°,λ-21.00000°. NP2:ϕ_s32.00000°,δ76.00000°,λ-131.00000°. $M_0$1.95000×10^{15}
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.6km az=151.0. Felt at Hsinchu.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=155.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=22.9km s-min=14.3km az=73.0.

ISC V 07 09 57 28.9–1.4 24.91N–.05 122.77E–.03 140–8 91 0-7
ISCJB V 07 09 57 29.2–.45 24.90N–.04 122.78E–.02 134–4 **¶600608893**
TAP V 07 09 57 30.0 24.96N 122.75E 130–1 3.8L
JMA V 07 09 57 30.1–.20 24.86N 122.74E 131–2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=2.7km az=167.6.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

ISC V 07 14 29 46.8–1.2 24.00N–.04 122.42E–.02 13–10 60 1-2
ISCJB V 07 14 29 47.5–.44 24.01N–.03 122.42E–.02 17–5 **¶600609056**
JMA V 07 14 29 47.0–.20 24.01N 122.43E 11 2.1
TAP V 07 14 29 48.3 24.05N 122.41E 33–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=2.6km az=162.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.

ISC V 08 01 43 42.6–.97 24.53N–.02 122.09E–.02 11–8 93 0-3
ISCJB V 08 01 43 42.7–.37 24.52N–.02 122.11E–.02 6–3 **¶600609417**
TAP V 08 01 43 43.4 24.53N 122.00E 9–0 3.7L
JMA V 08 01 43 43.3–.10 24.49N 122.04E 25 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=160.3.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISC V 08 18 51 01.8–1.4 24.63N–.05 122.78E–.03 76–9 64 0-3
TAP V 08 18 51 00.6 24.55N 122.82E 16–1 3.0L **¶600610019**
JMA V 08 18 51 00.0–.10 24.78N 122.80E 88 1.7
ISCJB V 08 18 51 01.1–.57 24.65N–.04 122.78E–.02 79–6 1.7
ISC Event type ke.
TAP D.
ISCJB Event type ke.

ISC V 09 06 53 39.0–1.1 23.95N–.03 122.55E–.02 17–9 88 1-3
JMA V 09 06 53 39.8–.20 23.96N 122.54E 23 2.9 **¶600610353**
ISCJB V 09 06 53 40.3–.44 23.95N–.02 122.58E–.02 27–4 2.9
TAP V 09 06 53 41.2 24.00N 122.54E 54–1 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=159.4.
TAP C.

ISC V 09 12 33 14.1–1.1 23.88N–.02 122.31E–.02 11–9 87 1-3
ISCJB V 09 12 33 15.1–.90 23.90N–.02 122.31E–.02 10–6 **¶600610512**
JMA V 09 12 33 15.5–.20 23.89N 122.29E 20–4 3.0
TAP V 09 12 33 15.8 23.96N 122.29E 19–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.2km az=158.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.

ISC V 10 17 16 53.9–1.8 24.75N–.07 122.55E–.03 116–11 77 0-3
JMA V 10 17 16 52.1–.20 24.75N 122.49E 127–2 2.7 **¶600611381**
TAP V 10 17 16 52.2 24.84N 122.55E 127–0 3.6L
ISCJB V 10 17 16 53.3–.67 24.74N–.04 122.55E–.02 118–5 3.6L
ISC Event type ke.
TAP C.
ISCJB Event type ke.

ISC V 11 06 54 42.9–1.3 23.56N–.04 122.25E–.03 10–10 57 1-2
ISCJB V 11 06 54 43.6–.61 23.55N–.04 122.29E–.03 15–5 **¶600611648**
JMA V 11 06 54 44.7 23.68N 122.16E 63 2.6
TAP V 11 06 54 45.4 23.61N 122.13E 6–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.2km az=154.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.

TAP V 11 08 30 56.8 22.77N 121.31E 19–0 3.7L
¶601172701
TAP B.

ISC V 11 09 18 11.1–1.2 24.39N–.04 122.27E–.03 25–12 42 0-2
JMA V 11 09 18 10.8–.10 24.28N 122.24E 47–3 1.7 **¶600611696**
ISCJB V 11 09 18 11.4–.40 24.38N–.04 122.25E–.02 28–5 1.7
TAP V 11 09 18 11.5 24.40N 122.21E 23–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.3km az=175.6.
TAP D.

ISC V 11 20 35 09.0–1.4 23.97N–.07 122.49E–.02 14–10 33 1-2
ISCJB V 11 20 35 08.8–1.1 23.97N–.05 122.50E–.02 6–7 **¶600612011**
JMA V 11 20 35 09.6–.30 23.97N 122.49E 15–5 2.1
TAP V 11 20 35 10.2 24.02N 122.49E 24–1 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=3.1km az=6.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.

ISC V 12 03 36 23.6–1.2 22.67N–.02 121.79E–.03 24–13 106 1-4
JMA V 12 03 36 23.6–.10 22.66N 121.77E 41 3.5 **¶600612243**
TAP V 12 03 36 24.4 22.67N 121.78E 34–0 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.

ISC V 14 06 00 32.0–1.1 24.55N–.03 122.39E–.02 10–9 67 0-3
ISCJB V 14 06 00 31.9–.47 24.58N–.03 122.42E–.02 5–4 **¶600613806**
TAP V 14 06 00 31.7 24.57N 122.36E 4–1 3.1L
JMA V 14 06 00 32.7–.20 24.51N 122.37E 45–5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=2.5km az=179.8.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

ISC V 14 18 04 28.3–1.5 24.70N–.05 122.58E–.03 114–9 97 0-3
ISCJB V 14 18 04 27.9–.57 24.70N–.03 122.59E–.02 114–5 **¶600614284**
TAP V 14 18 04 27.7 24.74N 122.62E 112–1 3.6L
JMA V 14 18 04 27.2–.20 24.75N 122.53E 118–3 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=171.3.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

ISC V 15 08 42 52.6–1.1 24.94N–.03 122.41E–.03 12–7 4.0b,2.9s 113 0-82
ISCJB V 15 08 42 52.3–.54 25.06N–.02 122.41E–.02 12–3 4.0b,3.0s **¶16523195**
JMA V 15 08 42 53.7–.10 24.98N 122.37E 48–3 3.4,3.0s
BJI V 15 08 42 54.2 25.05N 122.19E 10 4.4L,4.1b
TAP V 15 08 42 54.4 25.00N 122.29E 19–0 4.2L,4.1b
NEIC V 15 08 42 54.0–2.0 24.91N 122.34E 6–11 4.4L,4.1b
IDC V 15 08 43 00.4–4.1 24.96N 122.27E 74–38 4.0,3.8
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.7km az=178.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
NEIC Event type fe. Error ellipse: s-maj=27.5km s-min=9.3km az=195.0. Recorded [2 TAP] in Yilan and [1 TAP] in Hualien and Taipei.
IDC Error ellipse: s-maj=19.5km s-min=13.1km az=72.0.

TAP V 16 19 30 14.0 21.18N 122.24E 160–1 3.5L
¶601174445
TAP D.

ISC V 17 13 31 43.6–1.5 24.57N–.05 122.60E–.03 87–10 71 0-2
JMA V 17 13 31 42.5–.10 24.47N 122.57E 97–2 2.1 **¶600616541**
ISCJB V 17 13 31 43.2–.61 24.58N–.04 122.61E–.02 88–6 2.1
TAP V 17 13 31 43.2 24.60N 122.63E 82–1 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=2.8km az=177.7.
TAP D.

ISC V 18 06 51 12.5–1.2 22.77N–.03 121.19E–.03 64–6 116 0-4
ISCJB V 18 06 51 11.8–.41 22.77N–.02 121.21E–.02 69–4 **¶600617008**
JMA V 18 06 51 12.2–.20 22.79N 121.27E 53–3 3.7
TAP V 18 06 51 12.1 22.78N 121.18E 63–0 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=24.6.
JMA Error ellipse: s-maj=1.1km s-min=4.1km az=-1.0.
TAP B.

ISC V 18 19 41 51.9–1.1 24.54N–.04 122.40E–.02 9–10 56 1-3
TAP V 18 19 41 51.3 24.58N 122.37E 1–0 2.7L **¶600617465**
ISCJB V 18 19 41 52.6–.51 24.64N–.03 122.43E–.02 11–4 2.7L
JMA V 18 19 41 52.7–.10 24.49N 122.35E 31–5 2.1
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.3km az=2.7.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

ISC V 19 01 18 00.4–1.2 24.00N–.04 122.53E–.02 16–10 62 1-2
JMA V 19 01 18 01.9–.10 24.03N 122.51E 61–3 2.3 **¶600617652**
TAP V 19 01 18 02.9 24.03N 122.53E 30–0 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.

ISC V 19 07 30 54.7–1.2 24.07N–.05 122.92E–.02 19–3 42 0-2
JMA V 19 07 30 53.8–.20 24.01N 122.87E 16–3 2.7 **¶600617812**
ISCJB V 19 07 30 54.7–.60 24.02N–.04 122.90E–.02 18–7 2.7
TAP V 19 07 30 55.3 24.10N 122.94E 42–1 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.5km az=1.4.
TAP D.

ISC V 19 17 13 23.9–.62 24.88N–.06 122.94E–.04 128–6 4.1b 88 0-90
NEIC V 19 17 13 24.0–.34 24.83N 122.94E 131–3 4.6b **¶16560104**
JMA V 19 17 13 24.7–.20 24.73N 122.92E 127–3 4.0
IDC V 19 17 13 26.9–3.0 24.90N 122.95E 156–28 4.3,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.0km az=126.0.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=14.0km s-min=10.1km az=81.0.

ISC V 19 22 54 34.4–1.2 23.94N–.02 122.32E–.02 9–10 103 1-3
ISCJB V 19 22 54 35.5–.80 23.94N–.02 122.32E–.02 12–5 **¶600618550**
TAP V 19 22 54 35.8 23.99N 122.25E 9–0 3.6L
JMA V 19 22 54 35.8–.10 23.93N 122.26E 27–3 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=148.7.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISC V 20 02 54 49.1–2.0 21.5N–.10 120.73E–.06 45–10 3.2b 55 0-44
JMA V 20 02 54 41.2–.50 21.42N 120.63E 0 4.0 **¶600618662**
TAP V 20 02 54 46.3 21.46N 120.78E 58–1 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=7.2km az=-1.0.
TAP D.

ISC V 21 06 55 49.1–1.1 23.68N–.02 122.55E–.02 6–8 3.5b,2.9s 110 1-83
IDC V 21 06 55 35.6–4.3 21.44N 122.51E 0 3.8,3.6 **¶600619682**
ISCJB V 21 06 55 50.5–.75 23.71N–.02 122.57E–.02 9–5 3.3b,3.0s
JMA V 21 06 55 51.5–.20 23.77N 122.49E 23 3.4,3.0s
TAP V 21 06 55 52.1 23.79N 122.56E 25–1 3.8L,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=105.5km s-min=51.8km az=2.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=147.3.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.

ISC V 21 15 10 33.2–2.4 25.27N–.10 122.60E–.04 208–14 67 1-3
TAP V 21 15 10 31.0 25.32N 122.83E 215–0 3.7L **¶601174764**
ISCJB V 21 15 10 32.8–.80 25.25N–.06 122.62E–.03 208–6 3.7L
JMA V 21 15 10 32.6–.20 25.27N 122.56E 209–3 3.0
ISC Event type ke.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=3.8km az=169.4.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.

ISC V 22 00 05 02.3–1.3 24.54N–.04 122.11E–.03 57–9 67 0-2
ISCJB V 22 00 05 01.8–.48 24.54N–.03 122.12E–.02 59–6 **¶600620367**
JMA V 22 00 05 01.0–.10 24.47N 122.08E 67–2 2.4
TAP V 22 00 05 01.5 24.56N 122.08E 62–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.7km az=162.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.

ISC V 22 01 11 10.7–1.1 23.67N–.03 122.02E–.02 16–9 65 0-2
ISCJB V 22 01 11 11.3–.46 23.66N–.03 122.05E–.02 21–4 **¶600620403**
JMA V 22 01 11 11.2–.20 23.66N 122.00E 26–5 2.5
TAP V 22 01 11 12.2 23.69N 121.95E 17–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.5km az=156.6.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP D.

ISC V 23 06 55 04.0–1.8 24.72N–.07 122.51E–.03 111–11 50 0-2
JMA V 23 06 55 02.9–.10 24.69N 122.49E 119–2 2.7 **¶600621224**
ISCJB V 23 06 55 03.5–.83 24.73N–.06 122.51E–.02 113–7 2.7
TAP V 23 06 55 03.5 24.74N 122.52E 115–1 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=3.4km az=179.1.
TAP D.

ISC V 23 17 05 32.1–1.2 23.60N–.02 122.50E–.02 3–9 3.5b 133 1-83
IDC V 23 17 05 33.1–7.8 23.94N 122.84E 0 3.7,3.5 **¶16637193**
ISCJB V 23 17 05 34.7–.40 23.62N–.02 122.50E–.01 19–3 3.3b,3.5
TAP V 23 17 05 35.6 23.60N 122.51E 27–1 3.7L,3.5
JMA V 23 17 05 35.1–.10 23.59N 122.44E 34 3.0,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=200.3km s-min=62.1km az=16.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=158.9.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.

ISC V 25 05 24 44.2–.00 24.78N–.03 122.52E–.02 15–7 3.6b 94 1-82
IDC V 25 05 24 42.2–1.3 24.84N 122.89E 0 3.8,3.6b **¶17204430**
ISCJB V 25 05 24 44.8–.35 24.78N–.03 122.53E–.02 21–3 3.5b,3.6b
JMA V 25 05 24 44.6–.20 24.73N 122.48E 18–4 3.2,3.6b
TAP V 25 05 24 45.4 24.76N 122.43E 12–1 3.6L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=89.3km s-min=24.4km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=5.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.

TAP V 25 05 42 30.2 24.78N 122.46E 15–1 2.8L
¶601175187
TAP C.

ISC V 25 06 47 31.2–1.1 24.77N–.04 122.51E–.02 12–9 43 1-2
ISCJB V 25 06 47 31.3–.51 24.77N–.04 122.51E–.02 7–4 **¶600622774**

JMA V 25 06 47 31.8–.10 24.71N 122.48E 12–3 2.0
TAP V 25 06 47 32.4 24.76N 122.37E 3–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=2.8km az=16.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 25 13 58 02.0–1.3 24.80N–.05 122.56E–.02 11–10 46 0-2
TAP V 25 13 58 04.8 24.76N 122.37E 4–1 2.8L **¶600622996**
JMA V 25 13 58 04.0–.10 24.70N 122.54E 35–3 1.8
ISC Event type ke.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC V 25 15 24 19.0–1.1 24.76N–.03 122.56E–.02 12–9 76 0-2
ISCJB V 25 15 24 20.5–.37 24.77N–.03 122.55E–.02 15–3 **¶600623033**
JMA V 25 15 24 21.0–.10 24.74N 122.54E 30–2 2.2
TAP V 25 15 24 22.4 24.76N 122.45E 13–1 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.4km az=8.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
TAP V 26 01 18 51.0 24.79N 122.51E 31–1 2.4L
IDC V 26 01 19 19.0–9.2 23.35N 118.92E 0 3.4,3.4 **¶601175300**
TAP C.
IDC Error ellipse: s-maj=206.4km s-min=109.5km az=108.0.
ISC V 26 18 05 07.3–3.1 21.63N–.06 122.92E–.03 17–21 3.4b 149 1-43
IDC V 26 18 05 05.7–1.9 21.54N 123.12E 0 3.6,3.6L **¶17204522**
JMA V 26 18 05 10.1–.50 21.74N 122.82E 43 4.3,3.6L
TAP V 26 18 05 11.9 21.71N 122.64E 38–1 4.3L,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=44.1km s-min=31.1km az=64.0.
JMA Error ellipse: s-maj=4.4km s-min=2.1km az=-1.0.
TAP D.
ISC V 26 18 29 51.5–1.8 24.65N–.10 122.91E–.03 109–11 45 0-3
ISCJB V 26 18 29 51.8–.80 24.63N–.07 122.90E–.02 103–6 **¶600623797**
JMA V 26 18 29 51.5–.20 24.75N 122.94E 108–2 2.0
TAP V 26 18 29 52.8 24.50N 122.93E 84–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=3.4km az=175.8.
JMA Error ellipse: s-maj=5.6km s-min=1.0km az=-1.0.
TAP D.
ISC V 28 10 01 08.0–1.0 23.95N–.02 122.31E–.02 14–7 3.7b 133 1-83
ISCJB V 28 10 01 09.2–.60 23.97N–.02 122.30E–.01 9–4 3.7b,3.0s **¶16711117**
JMA V 28 10 01 09.4–.10 23.96N 122.27E 18–3 3.6,3.0s
TAP V 28 10 01 10.1 24.04N 122.28E 21–0 3.9L,3.0s
IDC V 28 10 01 20.0–6.5 24.06N 121.99E 114–64 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=157.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
IDC Error ellipse: s-maj=34.8km s-min=13.7km az=56.0.
ISC V 28 12 26 25.2–1.2 24.04N–.03 122.37E–.02 18–3 62 1-2
ISCJB V 28 12 26 25.3–1.1 24.03N–.02 122.39E–.02 13–8 **¶600625129**
JMA V 28 12 26 25.7–.10 24.00N 122.38E 28–3
TAP V 28 12 26 26.2 24.09N 122.32E 17–0 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=166.3.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
TAP V 28 19 48 14.8 21.93N 120.56E 47–0 3.1L
¶601175503
TAP C.
ISC V 30 05 09 51.8–.79 22.71N–.02 121.12E–.02 15–5 3.7b,2.9s 129 0-79
NIED V 30 05 09 00 22.60N 121.00E 5 3.9W,2.9s **¶16551566**
JMA V 30 05 09 47.5–.90 22.61N 120.96E 17 3.9,2.9s
IDC V 30 05 09 50.0–1.7 22.46N 121.07E 0 3.9,3.8b
ISCJB V 30 05 09 50.8–.35 22.72N–.01 121.17E–.02 0–3 3.7b,3.1s
TAP V 30 05 09 51.8 22.76N 121.04E 7–0 4.2L,3.1s
BJI V 30 05 09 51.0 22.75N 121.05E 10 3.7,3.7L
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s90.00000°,δ63.00000°,λ162.00000°. NP2:ϕ_s189.00000°,δ74.00000°,λ28.00000°. $M_0$9.44000×10^{14}
JMA Error ellipse: s-maj=6.7km s-min=4.1km az=-1.0.
IDC Error ellipse: s-maj=141.1km s-min=23.5km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=1.7.
TAP B.
ISC V 30 11 16 50.7–3.5 21.13N–.07 122.08E–.04 3–22 3.7b 97 1-85
IDC V 30 11 16 49.9–.87 20.97N 121.97E 0 3.9,3.8 **¶17204755**
TAP V 30 11 16 51.8 21.08N 121.99E 64–1 4.2L,3.8
JMA V 30 11 16 52.4–.50 21.19N 121.98E 105 3.3,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=35.6km s-min=17.5km az=70.0.
TAP D.
JMA Error ellipse: s-maj=4.4km s-min=2.1km az=-1.0.
ISC V 30 14 32 26.0–1.2 22.68N–.03 121.74E–.03 9–10 69 1-4
JMA V 30 14 32 25.4–.20 22.62N 121.76E 13 3.1 **¶600626586**
TAP V 30 14 32 27.5 22.71N 121.67E 9–1 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
IDC V 30 16 54 15.1–6.5 24.78N 122.54E 160–66 3.7,3.3
¶17204771
IDC Error ellipse: s-maj=42.6km s-min=16.0km az=65.0.
ISC V 30 22 05 14.7–1.3 22.94N–.04 122.55E–.03 9–10 66 1-3
JMA V 30 22 05 17.9–.20 22.94N 122.55E 43 2.5 **¶600626785**
TAP V 30 22 05 19.7 22.87N 122.47E 39–1 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP D.
ISC V 31 17 11 21.3–1.2 24.87N–.07 122.46E–.04 19–4 22 0-1
ISCJB V 31 17 11 21.4–.73 24.86N–.05 122.46E–.03 10–6 **¶600627283**
TAP V 31 17 11 22.0 24.87N 122.40E 19–1 2.6L
JMA V 31 17 11 21.0–.40 24.84N 122.42E 1–4 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.2km az=20.4.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC V 31 17 12 25.9–1.1 24.86N–.05 122.46E–.03 11–10 35 0-2
ISCJB V 31 17 12 25.8–.62 24.86N–.04 122.45E–.03 3–4 **¶600627284**
JMA V 31 17 12 25.4–.20 24.83N 122.42E 1–3 2.5
TAP V 31 17 12 26.8 24.85N 122.33E 3–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.4km az=20.4.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 31 19 02 55.3–1.1 24.86N–.04 122.47E–.02 10–10 43 0-2
ISCJB V 31 19 02 55.6–.55 24.86N–.03 122.46E–.02 6–4 **¶600627351**
JMA V 31 19 02 55.5–.50 24.79N 122.42E 1–5 2.9
TAP V 31 19 02 56.1 24.88N 122.38E 7–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=13.5.
JMA Error ellipse: s-maj=5.6km s-min=2.0km az=-1.0.
TAP D.
ISC V 31 19 16 40.7–1.1 24.86N–.04 122.44E–.02 18–6 45 0-2
ISCJB V 31 19 16 40.8–.51 24.84N–.04 122.43E–.02 2–5 **¶600627356**
JMA V 31 19 16 40.7–.30 24.82N 122.41E 1–4 2.4
TAP V 31 19 16 41.6 24.87N 122.35E 7–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.1km az=16.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 31 20 00 54.1–1.1 24.89N–.04 122.44E–.03 22–8 51 0-2
ISCJB V 31 20 00 53.9–.51 24.88N–.03 122.43E–.02 4–4 **¶600627380**
JMA V 31 20 00 54.0–.10 24.84N 122.42E 3 2.6
TAP V 31 20 00 55.7 24.86N 122.27E 2–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.0km az=16.3.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC V 31 21 38 12.3–1.1 24.87N–.04 122.46E–.03 22–12 44 0-2
JMA V 31 21 38 11.9–.30 24.83N 122.42E 2–4 2.6 **¶600627433**
ISCJB V 31 21 38 12.3–.81 24.89N–.04 122.47E–.03 11–7 2.6
TAP V 31 21 38 13.2 24.86N 122.35E 6–1 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.7km az=17.6.
TAP D.
ISC VI 01 02 12 03.6–1.1 24.85N–.04 122.44E–.04 10–12 30 0-2
ISCJB VI 01 02 12 03.3–.57 24.86N–.03 122.45E–.03 4–5 **¶600627584**
JMA VI 01 02 12 03.4–.20 24.80N 122.43E 0 2.0
TAP VI 01 02 12 04.2 24.91N 122.40E 18–0 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=26.3.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
ISC VI 01 02 26 40.3–1.1 24.87N–.05 122.45E–.03 12–11 28 0-2
ISCJB VI 01 02 26 40.0–.66 24.88N–.04 122.46E–.03 7–5 **¶600627600**
TAP VI 01 02 26 40.6 24.91N 122.40E 14–0 2.8L
JMA VI 01 02 26 40.8–.10 24.83N 122.44E 19 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.0km az=25.4.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 01 07 06 02.7–1.1 24.86N–.04 122.43E–.02 8–10 45 0-2
ISCJB VI 01 07 06 02.7–.49 24.86N–.04 122.44E–.02 2–4 **¶600627761**
TAP VI 01 07 06 02.9 24.91N 122.42E 16–0 3.0L
JMA VI 01 07 06 02.7–.20 24.79N 122.41E 0 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=2.6km az=10.2.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 01 07 43 22.0–1.1 24.86N–.04 122.46E–.02 8–10 45 0-2
ISCJB VI 01 07 43 22.2–.47 24.84N–.03 122.44E–.02 2–4 **¶600627775**
TAP VI 01 07 43 22.6 24.89N 122.40E 13–0 3.1L
JMA VI 01 07 43 22.2–.20 24.80N 122.44E 0 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.0km az=15.9.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC VI 01 08 00 17.6–1.4 24.89N–.05 122.46E–.03 13–12 30 0-2
ISCJB VI 01 08 00 18.5–.56 24.84N–.04 122.44E–.02 6–5 **¶600627778**
TAP VI 01 08 00 18.6 24.92N 122.43E 19–1 2.7L
JMA VI 01 08 00 18.1–.20 24.84N 122.44E 0 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.4km az=12.4.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 01 16 54 22.7–1.4 23.84N–.06 122.74E–.02 21–5 33 1-2
ISCJB VI 01 16 54 22.5–.75 23.81N–.05 122.74E–.02 20–7 **¶601175709**
JMA VI 01 16 54 23.6–.10 23.96N 122.69E 32 2.2
TAP VI 01 16 54 24.5 23.85N 122.61E 17–2 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.3km az=176.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC VI 02 03 39 33.1–1.0 24.72N–.04 122.48E–.02 16–10 33 0-2
ISCJB VI 02 03 39 33.2–.54 24.73N–.04 122.47E–.02 7–4 **¶600628299**
JMA VI 02 03 39 33.2–.20 24.71N 122.47E 3–2 2.7
TAP VI 02 03 39 33.6 24.77N 122.47E 22–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=2.8km az=16.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC VI 02 17 07 54.2–.49 22.26N–.03 121.45E–.02 43–4 5.0b,4.4s 745 0-176
NIED VI 02 17 07 00 21.90N 121.20E 32 4.9W,4.4s **¶16554506**
JMA VI 02 17 07 46.6–.60 21.94N 121.21E 43 5.1,4.4s
ISCJB VI 02 17 07 52.3–.20 22.22N–.01 121.47E–.02 41–1 4.9b,4.4s
TAP VI 02 17 07 52.3 22.26N 121.34E 22–0 5.2L,4.4s
MOS VI 02 17 07 53.5–1.0 22.26N 121.44E 51 5.3b,4.6s
NEIC VI 02 17 07 54.0–.60 22.24N 121.41E 43–5 5.0b,4.6s
BJI VI 02 17 07 53.2 22.30N 121.25E 30 4.8b,4.7L
GCMT VI 02 17 07 54.0–.20 22.20N 121.41E 29–0 5.0W,4.7L
IDC VI 02 17 07 54.2–1.3 22.21N 121.59E 48–11 4.7,4.6
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s160.00000°,δ50.00000°,λ23.00000°. NP2:ϕ_s55.00000°,δ73.00000°,λ138.00000°. $M_0$2.89000×10^{16}
JMA Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.0km az=16.9.
TAP B.
MOS Error ellipse: s-maj=7.2km s-min=4.0km az=114.2.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=105.0. Recorded [4 TAP] in Taitung, [3 TAP] in Pingtung, [2 TAP] in Chiayi and [1 TAP] in Hualien and Yunlin.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c44; s79,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.23±.22 $M_{\theta\theta}$0.57±.12; $M_{\phi\phi}$-3.80±.14; $M_{r\theta}$1.21±.18; $M_{\theta\phi}$-2.28±.07; $M_{\phi r}$-0.61±.18; Best double couple: NP1:ϕ_s177.00000°,δ52.00000°,λ52.00000°. NP2:ϕ_s49.00000°,δ51.00000°,λ129.00000°. Principal axes: T 3.9820,Plg61.0000°,Azm24.0000°; N 0.7950,Plg29.0000°,Azm203.0000° ; P -4.7730,Plg1.0000°,Azm293.0000° $M_0$4.37800×10^{16}
IDC Error ellipse: s-maj=12.9km s-min=9.2km az=72.0.
ISC VI 02 18 03 07.8–1.1 24.83N–.03 122.01E–.04 12–8 54 0-2
TAP VI 02 18 03 08.4 24.82N 121.94E 13–0 3.2L **¶600628927**
JMA VI 02 18 03 08.9–.10 24.82N 121.88E 34 2.4
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 02 18 33 37.5–1.4 24.84N–.07 122.65E–.04 15–10 37 0-2
ISCJB VI 02 18 33 37.3–.86 24.84N–.06 122.63E–.03 1–5 **¶600628944**
TAP VI 02 18 33 38.5 24.87N 122.58E 15–1 3.0L
JMA VI 02 18 33 38.1–.10 24.80N 122.65E 22–3 1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.0km az=14.3.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 03 04 43 41.6–1.3 24.41N–.04 122.13E–.02 51–10 67 0-2
JMA VI 03 04 43 40.5–.10 24.38N 122.09E 64–2 2.3 **¶600629392**
ISCJB VI 03 04 43 41.2–.41 24.40N–.03 122.14E–.02 53–7 2.3
TAP VI 03 04 43 41.0 24.45N 122.06E 60–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=2.8km az=162.9.
TAP C.
ISC VI 03 11 51 04.3–1.7 24.96N–.09 122.70E–.03 3–12 37 1-2
ISCJB VI 03 11 51 06.2–1.1 24.91N–.06 122.72E–.03 11–7 **¶600629654**
JMA VI 03 11 51 07.8–.10 24.78N 122.70E 33–2 2.0
TAP VI 03 11 51 08.0 24.86N 122.58E 13–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.7km az=6.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
TAP VI 03 19 11 54.6 22.43N 121.40E 20–1 2.6L
¶601175881
TAP C.

ISC VI 03 21 40 01.3–1.5 21.21N–.03 121.35E–.04 13–9 3.7b 122 1-86
JMA VI 03 21 40 01.4–.30 21.38N 121.27E 7 4.5 **¶17205127**
TAP VI 03 21 40 04.3 21.28N 121.32E 53–0 4.2L
IDC VI 03 21 40 10.0–4.9 21.20N 121.46E 90–47 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=2.1km az=-1.0.
TAP D.
IDC Error ellipse: s-maj=23.4km s-min=15.8km az=73.0.
ISC VI 04 06 04 35.7–1.2 24.69N–.05 122.48E–.02 18–6 34 0-2
ISCJB VI 04 06 04 35.7–.58 24.77N–.04 122.50E–.02 2–4 **¶600630870**
TAP VI 04 06 04 36.8 24.78N 122.38E 3–1 2.7L
JMA VI 04 06 04 36.1–.10 24.73N 122.48E 7–2 2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=2.9km az=11.6.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 04 17 00 23.7–1.3 24.88N–.04 122.42E–.04 7–13 38 1-2
ISCJB VI 04 17 00 24.0–.60 24.87N–.03 122.45E–.03 6–4 **¶600631299**
JMA VI 04 17 00 24.1–.10 24.88N 122.47E 36 2.5
TAP VI 04 17 00 24.8 24.87N 122.36E 6–1 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=24.2.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC VI 05 08 43 56.3–1.2 23.73N–.03 122.49E–.03 14–9 66 1-2
ISCJB VI 05 08 43 57.4–.94 23.74N–.03 122.53E–.02 14–6 **¶600631898**
JMA VI 05 08 43 57.9–.10 23.80N 122.47E 30 2.4
TAP VI 05 08 43 58.0 23.77N 122.35E 3–1 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.6km az=161.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC VI 06 08 25 33.1–1.2 24.76N–.06 122.49E–.02 10–10 34 1-2
TAP VI 06 08 25 32.7 24.78N 122.51E 15–1 2.8L **¶600632924**
JMA VI 06 08 25 33.5–.10 24.72N 122.47E 9–3 2.2
ISC Event type ke.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 06 18 13 13.8–1.8 24.71N–.08 122.53E–.03 105–11 55 0-3
JMA VI 06 18 13 12.3–.20 24.71N 122.49E 115–2 2.5 **¶600633283**
TAP VI 06 18 13 12.7 24.77N 122.51E 112–0 3.5L
ISCJB VI 06 18 13 13.2–.89 24.74N–.05 122.54E–.02 106–7 3.5L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC VI 07 20 16 00.5–1.2 24.78N–.08 122.53E–.04 27–12 21 1-1
ISCJB VI 07 20 16 00.6–.76 24.79N–.07 122.53E–.03 27–7 **¶600634160**
TAP VI 07 20 16 00.7 24.82N 122.53E 30–1 2.5L
JMA VI 07 20 16 01.0–.10 24.75N 122.52E 31–4 1.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.2km az=16.8.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 07 22 12 57.0–1.2 24.82N–.04 122.55E–.02 9–10 60 1-2
ISCJB VI 07 22 12 58.2–.41 24.79N–.03 122.55E–.02 16–4 **¶600634233**
JMA VI 07 22 12 58.7 24.73N 122.51E 31–2 2.6
TAP VI 07 22 12 59.2 24.76N 122.47E 5–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=2.7km az=5.1.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC VI 08 04 55 03.5–1.1 23.68N–.02 122.07E–.02 11–9 125 0-3
ISCJB VI 08 04 55 04.7–.37 23.70N–.02 122.09E–.02 16–3 **¶600634505**
JMA VI 08 04 55 04.8–.20 23.72N 122.02E 21–5 3.5
TAP VI 08 04 55 06.2 23.74N 122.01E 30–0 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=145.9.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP C.
ISC VI 08 17 39 52.3–.99 22.88N–.02 121.34E–.02 18–3 111 0-4
ISCJB VI 08 17 39 50.7–.42 22.86N–.02 121.41E–.02 1–3 **¶600635065**
JMA VI 08 17 39 50.3–.10 22.86N 121.41E 2–2 3.3
TAP VI 08 17 39 52.6 22.89N 121.26E 16–0 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=13.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC VI 08 22 00 48.6–1.0 24.75N–.04 122.51E–.02 26–11 56 0-2
TAP VI 08 22 00 49.0 24.77N 122.43E 7–1 3.0L **¶600635305**
JMA VI 08 22 00 49.1 24.71N 122.52E 31–1 2.3
ISC Event type ke.
TAP D.
ISC VI 09 00 38 48.7–1.1 24.79N–.03 122.52E–.02 12–9 62 1-2
ISCJB VI 09 00 38 49.6–.50 24.76N–.03 122.51E–.02 8–3 **¶600635407**
TAP VI 09 00 38 50.5 24.78N 122.42E 9–1 3.1L
JMA VI 09 00 38 50.0–.10 24.71N 122.48E 10–2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.3km az=10.1.
TAP D.
ISC VI 09 01 38 32.3–1.4 24.38N–.05 122.33E–.02 54–14 50 0-2
ISCJB VI 09 01 38 31.8–.57 24.38N–.04 122.33E–.02 56–9 **¶600635428**
JMA VI 09 01 38 31.3–.10 24.29N 122.29E 61–3 2.3
TAP VI 09 01 38 32.7 24.44N 122.25E 59–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.0km az=171.7.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC VI 09 02 25 59.9–1.1 23.45N–.02 122.33E–.02 15–9 121 1-4
ISCJB VI 09 02 26 00.7–.41 23.48N–.02 122.34E–.02 15–3 **¶600635440**
JMA VI 09 02 26 01.7–.10 23.48N 122.27E 33 3.3
TAP VI 09 02 26 02.6 23.49N 122.31E 38–1 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=146.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC VI 10 17 11 32.8–1.1 24.48N–.02 122.21E–.02 6–9 93 0-2
ISCJB VI 10 17 11 33.4–.39 24.51N–.02 122.21E–.02 2–3 **¶600636783**
TAP VI 10 17 11 34.4 24.53N 122.10E 7–0 3.1L
JMA VI 10 17 11 34.1 24.46N 122.17E 27 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=12.4.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 10 21 21 26.9–1.2 24.25N–.05 122.81E–.02 14–11 31 0-2
TAP VI 10 21 21 26.9 24.29N 122.78E 12–0 2.5L **¶600636930**
ISCJB VI 10 21 21 27.5–.61 24.22N–.06 122.81E–.02 15–11 2.5L
JMA VI 10 21 21 27.3–.10 24.20N 122.81E 20–3 2.2
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=3.2km az=5.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC VI 11 11 54 22.9–1.2 22.74N–.02 122.01E–.03 14–9 109 1-4
ISCJB VI 11 11 54 24.4–.60 22.71N–.02 122.07E–.02 30–5 **¶600637441**
JMA VI 11 11 54 24.5–.30 22.82N 121.99E 23–5 3.3
TAP VI 11 11 54 25.8 22.73N 121.98E 36–0 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=152.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC VI 11 14 57 48.3–1.5 24.83N–.05 122.20E–.03 95–9 84 0-3
ISCJB VI 11 14 57 47.5–.59 24.86N–.03 122.20E–.02 100–4 **¶600637522**
JMA VI 11 14 57 47.3–.20 24.82N 122.16E 100–2 2.1
TAP VI 11 14 57 47.5 24.85N 122.17E 100–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=165.1.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC VI 11 16 35 31.5–.89 24.85N–.02 122.01E–.02 10–6 86 0-3
TAP VI 11 16 35 31.6 24.82N 121.95E 9–0 3.3L **¶600637582**
JMA VI 11 16 35 32.1–.10 24.79N 121.92E 17 2.4
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 12 01 58 19.9–.64 25.44N–.06 122.36E–.04 263–5 3.5b 118 0-81
ISCJB VI 12 01 58 19.8–.30 25.47N–.04 122.37E–.03 265–2 3.4b **¶17205809**
TAP VI 12 01 58 19.9 25.51N 122.43E 272–0 4.3L
JMA VI 12 01 58 22.1–.30 25.33N 122.30E 249–3 4.1
IDC VI 12 01 58 22.3–4.1 25.50N 122.25E 286–42 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=160.5.
TAP C.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=22.8km s-min=12.5km az=74.0.
ISC VI 12 09 20 45.4–1.0 24.75N–.03 122.51E–.02 14–9 60 0-2
TAP VI 12 09 20 44.9 24.80N 122.54E 17–1 3.2L **¶600638135**
ISCJB VI 12 09 20 45.5–.46 24.74N–.03 122.50E–.02 3–4 3.2L
JMA VI 12 09 20 45.2 24.73N 122.48E 0 2.7
ISC Event type ke.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=2.4km az=8.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 12 09 22 35.9–1.1 24.68N–.04 122.54E–.02 10–10 38 0-2
ISCJB VI 12 09 22 37.5–.40 24.75N–.04 122.52E–.02 22–5 **¶600638137**
JMA VI 12 09 22 37.6–.10 24.72N 122.50E 28–3 2.3
TAP VI 12 09 22 38.1 24.77N 122.43E 17–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.0km az=8.3.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC VI 14 13 40 01.3–.92 24.85N–.02 122.07E–.02 13–7 58 0-2
ISCJB VI 14 13 40 02.8–.38 24.84N–.02 122.01E–.02 10–2 **¶600640303**
TAP VI 14 13 40 02.2 24.85N 121.99E 11–0 3.0L
JMA VI 14 13 40 03.1–.10 24.80N 121.92E 31 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=144.2.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP VI 14 13 40 07.3 24.85N 122.04E 17–0 3.0L
¶601176558
TAP D.
ISC VI 17 13 20 03.0–1.2 24.46N–.02 122.24E–.02 3–11 98 0-3
NIED VI 17 13 20 00 24.50N 122.20E 11 3.6W **¶600642623**
TAP VI 17 13 20 04.0 24.52N 122.16E 17–0 3.9L
JMA VI 17 13 20 04.1 24.46N 122.17E 31–4 3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s28.00000°,δ44.00000°,λ150.00000°. NP2:ϕ_s141.00000°,δ69.00000°,λ50.00000°. $M_0$3.19000×10^{14}
TAP C.
ISC VI 18 00 04 18.0–1.1 24.02N–.02 122.26E–.02 18–4 99 1-2
JMA VI 18 00 04 17.9–.10 23.99N 122.29E 17–4 2.8 **¶600643112**
ISCJB VI 18 00 04 18.1–.82 24.01N–.02 122.30E–.01 12–6 2.8
TAP VI 18 00 04 19.4 24.09N 122.21E 20–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=156.1.
TAP C.
ISC VI 18 04 22 43.0–3.1 25.6N–.10 122.50E–.05 228–18 47 0-3
TAP VI 18 04 22 41.6 25.86N 122.52E 224–1 3.5L **¶600643275**
ISCJB VI 18 04 22 42.8–.98 25.57N–.09 122.51E–.04 228–8 3.5L
JMA VI 18 04 22 43.3–.30 25.40N 122.45E 230 3.3
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.3km az=171.2.
JMA Error ellipse: s-maj=6.7km s-min=2.0km az=-1.0.
ISC VI 18 04 57 10.0–1.1 24.09N–.03 122.25E–.02 16–9 72 1-2
ISCJB VI 18 04 57 11.9–.41 24.13N–.03 122.27E–.02 26–4 **¶600643298**
JMA VI 18 04 57 11.8–.10 24.09N 122.23E 43–3 2.1
TAP VI 18 04 57 12.7 24.15N 122.26E 33–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.4km az=161.8.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC VI 18 16 54 05.6–.99 22.01N–.03 121.56E–.03 13–5 4.0b,3.4s 143 0-85
NIED VI 18 16 54 00 22.20N 121.70E 11 4.3W,3.4s **¶16638625**
IDC VI 18 16 54 03.8–.55 21.90N 121.63E 0 4.1,3.9
TAP VI 18 16 54 05.1 21.95N 121.49E 13–0 4.3L,3.9
BJI VI 18 16 54 05.8 21.98N 121.48E 10 4.4b,3.9b
JMA VI 18 16 54 06.5–.20 22.23N 121.67E 7 4.1,3.9b
NEIC VI 18 16 54 08.8–.62 22.05N 121.59E 35 4.7L,4.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s118.00000°,δ19.00000°,λ-86.00000°. NP2:ϕ_s294.00000°,δ71.00000°,λ-91.00000°. $M_0$3.22000×10^{15}
IDC Error ellipse: s-maj=24.9km s-min=12.5km az=66.0.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=10.1km az=80.0. Recorded [4 TAP] at Taitung.
ISC VI 18 17 19 45.7–.95 23.91N–.02 122.51E–.02 18–4 4.1b 201 1-83
NIED VI 18 17 19 00 23.90N 122.40E 26 4.1W **¶16730904**
BJI VI 18 17 19 45.6 24.06N 122.40E 6 3.5b,3.5L
JMA VI 18 17 19 47.4–.30 23.94N 122.44E 22–5 3.8,3.5L
ISCJB VI 18 17 19 47.5–.33 23.91N–.02 122.50E–.01 23–2 4.1b,3.5L
NEIC VI 18 17 19 47.1–1.1 24.02N 122.49E 25–8 4.3b,3.5L
TAP VI 18 17 19 47.4 23.96N 122.46E 21–0 4.3L,3.5L
IDC VI 18 17 19 53.0–6.2 24.08N 122.42E 75–59 4.0,3.9L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s263.00000°,δ14.00000°,λ110.00000°. NP2:ϕ_s63.00000°,δ76.00000°,λ85.00000°. $M_0$1.36000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=2.7km s-min=1.9km az=155.1.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.9km az=98.0.
TAP D.
IDC Error ellipse: s-maj=41.3km s-min=16.3km az=65.0.
ISC VI 18 18 59 52.8–1.2 21.95N–.04 121.57E–.03 17–6 92 0-4
JMA VI 18 18 59 50.8–.30 21.99N 121.66E 0 3.2 **¶600643942**
ISCJB VI 18 18 59 52.4–.84 21.96N–.04 121.65E–.02 12–7 3.2
TAP VI 18 18 59 53.5 21.97N 121.49E 12–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.2km az=175.2.
TAP C.
ISC VI 18 19 04 39.2–1.1 21.98N–.04 121.60E–.03 14–6 3.6b 98 0-47
JMA VI 18 19 04 38.6–.20 22.04N 121.67E 5 3.8 **¶17206484**
IDC VI 18 19 04 38.4–1.2 21.81N 121.47E 0 3.7,3.5
TAP VI 18 19 04 40.2 22.00N 121.48E 11–0 3.8L,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=43.0km s-min=21.2km az=81.0.
TAP C.
ISC VI 18 21 14 03.0–1.2 21.99N–.05 121.56E–.03 19–3 74 0-4
JMA VI 18 21 14 03.1–.20 21.96N 121.57E 32 **¶600644043**
TAP VI 18 21 14 04.1 22.06N 121.47E 7–1 3.0L

ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP C.
ISC VI 18 21 22 34.9–1.0 22.03N–.04 121.57E–.04 17–6 56 0-47
JMA VI 18 21 22 33.8–.30 21.95N 121.66E 21 3.2 **¶600644081**
TAP VI 18 21 22 36.0 22.04N 121.51E 10–1 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
TAP C.
ISC VI 19 07 27 52.7–1.6 24.55N–.08 122.62E–.03 84–11 48 0-2
ISCJB VI 19 07 27 52.6–.68 24.54N–.06 122.62E–.02 81–7 **¶600644452**
JMA VI 19 07 27 52.2–.10 24.43N 122.61E 88–2 2.3
TAP VI 19 07 27 53.0 24.56N 122.54E 91–0 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=3.2km az=177.1.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
TAP C.
ISC VI 19 08 18 38.2–.90 21.98N–.04 121.55E–.03 17–5 3.8b 104 0-80
NIED VI 19 08 18 00 22.10N 121.70E 5 4.3W **¶17206513**
IDC VI 19 08 18 35.6–.66 21.83N 121.54E 0 4.0,3.9
TAP VI 19 08 18 37.7 21.96N 121.44E 7–0 3.9L,3.9
JMA VI 19 08 18 37.4–.40 22.11N 121.67E 2 3.8,3.9
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s157.00000°,δ25.00000°,λ-23.00000°. NP2:ϕ_s267.00000°,δ81.00000°,λ-113.00000°. M_o3.38000×10^{15}
IDC Error ellipse: s-maj=28.9km s-min=13.2km az=68.0.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC VI 19 08 19 25.7–1.8 21.84N–.06 121.55E–.06 7–10 3.8b 38 0-74
ISCJB VI 19 08 19 26.0–1.1 21.87N–.05 121.63E–.04 12–7 3.5b,3.5s **¶17206516**
IDC VI 19 08 19 25.0–1.2 21.76N 121.81E 0 3.8,3.6b
TAP VI 19 08 19 26.7 21.89N 121.58E 6–0 3.7L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.7km az=167.4.
IDC Error ellipse: s-maj=71.2km s-min=19.6km az=66.0.
TAP D.
ISC VI 19 18 30 50.2–1.0 24.38N–.03 122.06E–.02 19–3 59 0-2
ISCJB VI 19 18 30 50.7–.39 24.41N–.03 122.09E–.02 16–6 **¶600644926**
JMA VI 19 18 30 50.3 24.31N 122.04E 25–3 2.2
TAP VI 19 18 30 51.8 24.40N 122.00E 13–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=160.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC VI 20 01 06 32.3–1.2 22.41N–.02 121.51E–.03 4–8 4.1b,3.4s 157 0-84
NIED VI 20 01 06 00 22.50N 121.60E 5 4.1W,3.4s **¶16642450**
IDC VI 20 01 06 31.6–.69 22.19N 121.36E 0 4.1,4.0
ISCJB VI 20 01 06 33.1–.43 22.35N–.02 121.54E–.02 20–3 4.0b,3.2s
JMA VI 20 01 06 33.7–.10 22.53N 121.56E 1–2 4.5,3.2s
NEIC VI 20 01 06 34.3 22.42N 121.38E 14 4.6L,4.4b
BJI VI 20 01 06 34.6 22.50N 121.32E 5 3.8b,3.8s
TAP VI 20 01 06 35.1 22.44N 121.39E 30–0 4.5L,3.8s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s241.00000°,δ54.00000°,λ148.00000°. NP2:ϕ_s351.00000°,δ65.00000°,λ40.00000°. M_o1.63000×10^{15}
IDC Error ellipse: s-maj=28.9km s-min=14.3km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.9km az=145.9.
NEIC Event type fe. Recorded [2 TAP] in Taitung. After TAP.
TAP B.
ISC VI 20 14 28 11.4–1.2 22.00N–.04 121.63E–.03 9–7 3.4b 78 0-47
JMA VI 20 14 28 09.4–.20 21.95N 121.62E 0 3.4 **¶17206603**
IDC VI 20 14 28 10.0–5.7 22.00N 121.85E 0 3.5,3.3
ISCJB VI 20 14 28 10.9–.66 22.00N–.03 121.65E–.03 4–5 3.4b,3.3
TAP VI 20 14 28 13.5 22.05N 121.53E 10–1 3.3L,3.3
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=434.7km s-min=28.6km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=17.3.
TAP B.
ISC VI 20 19 40 47.1–1.1 22.34N–.03 121.73E–.03 23–12 85 0-4
JMA VI 20 19 40 47.8–.10 22.45N 121.76E 21 3.2 **¶600645677**
TAP VI 20 19 40 48.3 22.34N 121.65E 22–1 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC VI 21 17 08 27.0–1.4 24.31N–.07 122.64E–.03 69–11 48 0-2
ISCJB VI 21 17 08 26.4–.56 24.32N–.06 122.64E–.02 71–7 **¶601177042**
TAP VI 21 17 08 26.1 24.37N 122.55E 91–1 2.7L
JMA VI 21 17 08 26.4–.10 24.24N 122.60E 71–2 1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=2.9km az=175.8.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC VI 21 20 13 15.5–1.5 24.52N–.07 122.95E–.03 92–10 53 0-2
ISCJB VI 21 20 13 15.2–.68 24.54N–.06 122.95E–.02 91–6 **¶600646548**
JMA VI 21 20 13 15.1–.20 24.43N 122.95E 98–2 1.9
TAP VI 21 20 13 16.7 24.47N 122.93E 72–1 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=3.4km az=174.9.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
TAP D.
ISC VI 22 11 13 51.5–1.1 23.91N–.03 122.39E–.02 9–9 69 1-2
ISCJB VI 22 11 13 52.5–.48 23.88N–.03 122.39E–.02 15–6 **¶600647068**
JMA VI 22 11 13 52.3–.20 23.90N 122.38E 15–4 2.4
TAP VI 22 11 13 54.1 23.98N 122.20E 9–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.5km az=161.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.
ISC VI 23 10 47 01.1–1.0 23.88N–.03 122.00E–.03 32–9 81 0-2
ISCJB VI 23 10 47 00.7–.36 23.88N–.02 122.04E–.02 25–3 **¶600647735**
JMA VI 23 10 47 00.5–.10 23.88N 122.01E 29–3 2.6
TAP VI 23 10 47 01.6 23.91N 121.98E 34–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.3km az=149.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
TAP VI 24 05 43 08.8 22.81N 121.11E 7–0 3.6L
¶601177197
TAP B.
TAP VI 25 17 48 00.1 21.16N 122.06E 158–1 3.8L
¶601177263
TAP D.
ISC VI 26 00 31 20.5–.77 24.17N–.02 122.04E–.02 19–2 4.2b,3.6s 190 0-93
NIED VI 26 00 31 00 24.20N 121.90E 17 4.1W,3.6s **¶16682700**
IDC VI 26 00 31 17.5–.81 24.35N 122.14E 0 4.1,4.0
BJI VI 26 00 31 20.5 24.23N 122.01E 16 4.5b,4.4b
NEIC VI 26 00 31 21.6–.85 24.20N 121.96E 27–5 4.3b,4.4b
JMA VI 26 00 31 21.4 24.15N 121.93E 22–2 4.1,4.4b
TAP VI 26 00 31 21.8 24.21N 121.94E 25–0 4.6L,4.4b
ISCJB VI 26 00 31 22.1–.28 24.21N–.01 122.02E–.02 30–2 4.1b,3.6s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s141.00000°,δ11.00000°,λ41.00000°. NP2:ϕ_s11.00000°,δ83.00000°,λ98.00000°. M_o1.51000×10^{15}
NEIC Event type se.
TAP B.
ISCJB Event type se.
ISC VI 26 04 24 19.4–1.2 24.00N–.04 122.86E–.03 19–4 44 0-2
ISCJB VI 26 04 24 20.9–.68 24.01N–.05 122.86E–.02 33–5 **¶600649237**
JMA VI 26 04 24 21.0–.10 24.08N 122.83E 44 2.0
TAP VI 26 04 24 22.2 24.04N 122.77E 68–2 3.0L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.1km az=166.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC VI 26 20 03 32.7–1.0 24.03N–.02 122.30E–.02 29–11 89 1-2
JMA VI 26 20 03 32.9–.10 24.05N 122.28E 49–3 2.6 **¶600649649**
ISCJB VI 26 20 03 33.8–.27 24.09N–.02 122.32E–.02 34–21 2.6
TAP VI 26 20 03 34.1 24.13N 122.27E 31–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.3km az=161.1.
TAP D.
ISC VI 27 06 38 31.2–1.2 23.12N–.03 122.03E–.03 19–3 80 1-3
ISCJB VI 27 06 38 31.0–.51 23.13N–.02 122.09E–.02 15–4 **¶600649887**
JMA VI 27 06 38 32.0–.10 23.15N 122.03E 28 3.0
TAP VI 27 06 38 33.4 23.15N 122.04E 32–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=148.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC VI 28 10 29 05.8–1.2 22.34N–.03 121.65E–.03 8–10 84 0-4
JMA VI 28 10 29 07.0–.10 22.38N 121.63E 25 3.6 **¶600651529**
TAP VI 28 10 29 08.5 22.32N 121.49E 11–0 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC VI 29 05 40 41.9–2.1 21.43N–.07 119.78E–.06 27–14 3.5b 69 1-47
IDC VI 29 05 40 36.3–5.0 22.12N 121.24E 0 3.7,3.5 **¶17207167**
TAP VI 29 05 40 41.1 21.47N 119.92E 98–1 3.9L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=388.1km s-min=26.0km az=60.0.
TAP C.
ISC VI 29 05 49 30.6–1.7 21.44N–.09 119.84E–.07 62–18 3.7b 81 1-86
IDC VI 29 05 49 25.4–1.6 21.43N 120.08E 0 4.1,4.1 **¶17207169**
ISCJB VI 29 05 49 30.0–.57 21.46N–.03 119.82E–.04 60–8 3.8b,4.1
TAP VI 29 05 49 29.1 21.47N 119.98E 98–0 4.5L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=53.8km s-min=25.7km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.2km az=171.0.
TAP D.
TAP VI 29 06 21 22.0 21.35N 119.83E 75–1 3.6L
¶601177495
TAP D.
ISC VI 29 22 06 01.5–1.2 24.02N–.07 122.91E–.03 31–12 40 0-2
TAP VI 29 22 06 02.0 24.13N 122.86E 48–2 3.2L **¶600652694**
JMA VI 29 22 06 01.4–.10 24.34N 122.89E 62–1 1.4
ISC Event type ke.
TAP D.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC VI 30 01 31 14.2–1.0 24.72N–.04 122.49E–.02 25–12 39 0-2
ISCJB VI 30 01 31 14.3–.37 24.73N–.04 122.51E–.02 24–4 **¶600476420**
JMA VI 30 01 31 14.7–.10 24.72N 122.53E 34–2 2.1
TAP VI 30 01 31 15.5 24.75N 122.40E 21–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=2.9km az=12.5.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
TAP D.

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ISC I 01 23 34 00.2–.89 24.44N–.02 121.89E–.02 12–7 102 0-3
TAP I 01 23 34 00.3 24.46N 121.86E 9–0 3.9L **¶15925529**
JMA I 01 23 34 00.3 24.42N 121.84E 18–4 3.8
ISC Event type ke.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 02 08 53 08.3–1.4 23.84N–.03 121.75E–.02 36–2 78 0-3
JMA I 02 08 53 06.7 23.82N 121.70E 53–1 2.9 **¶600514778**
ISCJB I 02 08 53 07.6–.29 23.83N–.02 121.78E–.02 43–7 2.9
TAP I 02 08 53 07.3 23.83N 121.72E 49–0 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=141.7.
TAP C.
ISC I 05 22 42 22.2–1.2 24.61N–.03 121.85E–.02 74–6 112 0-7
ISCJB I 05 22 42 21.4–.36 24.63N–.03 121.86E–.02 79–3 **¶600516052**
TAP I 05 22 42 21.8 24.60N 121.82E 74–0 4.0L
JMA I 05 22 42 21.2–.10 24.57N 121.81E 74–2 3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.4km az=155.1.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 06 08 47 30.3–.84 22.67N–.02 120.68E–.02 17–5 92 0-4
JMA I 06 08 47 28.6–.10 22.56N 120.66E 26 **¶600516158**
TAP I 06 08 47 29.7 22.68N 120.67E 21–0 3.7L
ISCJB I 06 08 47 31.1–.28 22.65N–.02 120.71E–.02 24–2 3.7L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC I 07 16 36 46.2–1.2 23.67N–.02 121.75E–.02 24–13 103 0-3
JMA I 07 16 36 45.9–.20 23.65N 121.69E 57–3 2.9 **¶600516501**
ISCJB I 07 16 36 46.9–.28 23.66N–.02 121.76E–.02 43–8 2.9
TAP I 07 16 36 46.6 23.67N 121.70E 51–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.2km az=142.5.
TAP C.
TAP I 09 14 56 49.3 22.96N 120.93E 6–0 2.1L
¶601161767
TAP C.
TAP I 09 14 56 59.1 22.95N 120.94E 3–1 2.2L
¶601161770
TAP C.
ISC I 10 00 37 23.8–.86 24.39N–.02 121.86E–.02 12–6 85 0-3
ISCJB I 10 00 37 23.4–.41 24.38N–.02 121.90E–.02 3–3 **¶601161814**
JMA I 10 00 37 23.3–.10 24.38N 121.84E 0 3.5
TAP I 10 00 37 24.0 24.40N 121.83E 13–0 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=142.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC I 10 09 48 51.2–.94 23.54N–.02 121.60E–.03 30–7 74 0-3
ISCJB I 10 09 48 50.8–.37 23.53N–.02 121.65E–.02 26–3 **¶600517335**
JMA I 10 09 48 50.5–.10 23.55N 121.60E 30–2
TAP I 10 09 48 51.0 23.55N 121.60E 24–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=41.1.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP D.
ISC I 11 08 04 24.6–.90 24.41N–.02 121.97E–.02 16–7 66 0-2
ISCJB I 11 08 04 24.4–.45 24.41N–.02 122.01E–.02 7–4 **¶601161907**
JMA I 11 08 04 24.9–.10 24.40N 121.95E 14 2.8
TAP I 11 08 04 25.3 24.42N 121.90E 19–0 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=156.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC I 12 20 05 13.8–.88 22.94N–.02 120.95E–.02 10–6 3.5b 115 0-70
JMA I 12 20 05 11.2–.10 22.98N 120.81E 3–3 3.5 **¶17190014**
TAP I 12 20 05 12.9 22.95N 120.93E 9–0 3.9L
ISCJB I 12 20 05 13.8–.31 22.92N–.01 120.98E–.02 1–3 3.4b,2.6s
IDC I 12 20 05 33.0–13 22.58N 120.85E 170–137 3.5,3.2
ISC Event type ke.

TAP C.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=0.7.
IDC Error ellipse: s-maj=38.7km s-min=15.7km az=73.0.
TAP I 14 13 42 01.9 22.28N 120.02E 28–1 2.9L
¶601162100
TAP D.
ISC I 14 16 54 18.6–1.1 23.86N–.02 121.83E–.03 33–3 81 0-2
ISCJB I 14 16 54 17.7–.45 23.83N–.02 121.92E–.02 17–5 **¶600518654**
JMA I 14 16 54 17.5 23.83N 121.83E 33–2
TAP I 14 16 54 18.3 23.86N 121.83E 33–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.3km az=42.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
TAP I 18 19 17 21.1 23.02N 121.00E 10–2 1.6L
¶601162378
TAP B.
TAP I 20 22 24 59.3 22.95N 120.94E 4–2 2.1L
¶601162530
TAP C.
TAP I 22 13 00 46.5 24.73N 121.71E 37–1 2.4L
¶600521073
TAP B.
ISC I 24 02 16 03.0–1.4 24.64N–.04 121.97E–.03 69–8 66 0-2
ISCJB I 24 02 16 02.4–.57 24.66N–.03 121.97E–.03 72–5 **¶600521605**
TAP I 24 02 16 02.2 24.65N 121.91E 74–0 3.6L
JMA I 24 02 16 02.0–.20 24.60N 121.95E 71–3 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=166.1.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP I 24 02 16 41.2 23.19N 121.33E 20–0 2.6L
¶601162703
TAP C.
ISC I 24 20 05 01.2–.94 24.43N–.02 121.95E–.02 17–8 75 0-3
ISCJB I 24 20 05 01.7–.40 24.46N–.02 121.99E–.02 13–2 **¶600521821**
TAP I 24 20 05 01.6 24.44N 121.90E 23–0 3.2L
JMA I 24 20 05 01.2–.10 24.43N 121.93E 15 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=155.8.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP I 24 23 52 45.6 24.68N 120.26E 29–0 3.5L
¶601162763
TAP C.
ISC I 25 12 22 53.0–.82 24.19N–.01 120.89E–.02 14–6 135 0-4
JMA I 25 12 22 51.2–.30 24.18N 120.87E 0 3.5 **¶15966135**
TAP I 25 12 22 52.1 24.17N 120.90E 10–0 4.0L
ISCJB I 25 12 22 53.2–.23 24.18N–.01 120.92E–.01 6–2 4.0L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC I 25 12 44 45.4–.86 23.53N–.01 120.80E–.02 18–3 112 0-4
JMA I 25 12 44 43.2–.10 23.55N 120.77E 0 3.7 **¶15966136**
TAP I 25 12 44 44.5 23.52N 120.81E 20–0 3.7L
ISCJB I 25 12 44 45.7–.19 23.53N–.01 120.82E–.02 20–3 3.7L
ISC Event type ke.
TAP A.
ISCJB Event type ke.
ISC I 26 01 24 40.0–1.1 23.18N–.04 121.40E–.05 24–7 30 0-3
JMA I 26 01 24 37.8–.10 23.15N 121.54E 2–2 **¶600522209**
ISCJB I 26 01 24 39.5–.73 23.15N–.04 121.47E–.04 23–6
TAP I 26 01 24 40.4 23.19N 121.37E 17–1 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.8km az=28.8.
TAP C.
ISC I 26 09 56 10.7–1.2 24.46N–.03 121.74E–.02 50–6 95 0-3
JMA I 26 09 56 09.4–.20 24.44N 121.73E 52–3 3.0 **¶600522304**
ISCJB I 26 09 56 10.1–.38 24.46N–.03 121.75E–.02 54–4 3.0
TAP I 26 09 56 10.3 24.50N 121.68E 53–0 3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.3km az=150.4.
TAP A.
ISC I 26 17 32 32.4–1.7 24.81N–.06 121.94E–.04 103–9 85 0-3
ISCJB I 26 17 32 32.2–.62 24.81N–.03 121.94E–.03 102–4 **¶600522409**
JMA I 26 17 32 32.1–.30 24.77N 121.91E 101–3
TAP I 26 17 32 32.1 24.84N 121.89E 104–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=144.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC I 26 21 26 34.8–1.3 24.66N–.04 121.87E–.03 63–7 86 0-2
JMA I 26 21 26 33.2–.30 24.61N 121.83E 73–3 **¶600522480**
ISCJB I 26 21 26 34.3–.50 24.66N–.03 121.88E–.02 66–4
TAP I 26 21 26 34.2 24.63N 121.82E 65–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=155.3.
TAP B.
ISC I 28 02 52 03.4–1.0 22.90N–.02 120.56E–.02 17–7 4.0b,3.3s 128 0-75
IDC I 28 02 52 00.1–.87 22.68N 120.49E 0 3.9,3.8 **¶15977703**
JMA I 28 02 52 01.2–.10 22.92N 120.50E 0 4.3,3.8
ISCJB I 28 02 52 03.9–.28 22.84N–.02 120.56E–.02 24–2 3.7b,3.6s
TAP I 28 02 52 03.4 22.90N 120.61E 16–0 4.2L,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=16.9km az=66.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=155.5.
TAP B.
ISC I 29 00 19 52.4–.91 23.08N–.02 121.37E–.03 32–6 89 0-3
JMA I 29 00 19 50.9–.10 23.09N 121.34E 37–3 3.5 **¶600523150**
ISCJB I 29 00 19 51.6–.39 23.08N–.02 121.48E–.02 19–5 3.5
TAP I 29 00 19 52.9 23.11N 121.35E 29–0 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=13.2.
TAP B.
ISC I 29 14 41 41.1–1.4 24.65N–.04 121.90E–.03 78–7 102 0-3
ISCJB I 29 14 41 40.5–.47 24.67N–.03 121.90E–.02 81–4 **¶600523323**
JMA I 29 14 41 40.0–.20 24.63N 121.86E 82–2 2.9
TAP I 29 14 41 40.4 24.67N 121.85E 81–0 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.7km az=156.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC I 31 20 53 14.9–.85 24.19N–.02 121.87E–.02 16–5 4.4b,4.0s 248 0-149
NIED I 31 20 53 00 24.20N 121.80E 8 4.7W,4.0s **¶15990784**
IDC I 31 20 53 12.2–.64 24.27N 122.02E 0 4.3,4.1
BJI I 31 20 53 13.7 24.16N 121.90E 9 4.6b,4.5s
NEIC I 31 20 53 14.2–.72 24.15N 121.90E 12–4 4.6L,4.5b
MOS I 31 20 53 14.9–1.1 24.25N 122.09E 33 4.8b,4.5b
JMA I 31 20 53 15.3–.10 24.17N 121.75E 22–1 4.6,4.5b
TAP I 31 20 53 15.8 24.21N 121.79E 16–0 4.9L,4.5b
ISCJB I 31 20 53 16.1–.25 24.24N–.01 121.85E–.02 27–1 4.4b,4.0s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s268.00000°,δ20.00000°,λ130.00000°. NP2:ϕ_s46.00000°,δ75.00000°,λ77.00000°. $M_0$1.24000×10^{16}
NEIC Event type fe. Recorded [4 TAP] in Hualien and [3 TAP] in Nantou and Yilan.
TAP B.
ISCJB Event type fe.

ISC II 01 08 16 31.0–.45 24.18N–.01 121.86E–.02 13–2 5.2b,5.0s 614 0-168
NIED II 01 08 16 00 24.20N 121.80E 8 5.4W,5.0s **¶15990797**
BJI II 01 08 16 28.3 24.20N 121.80E 10 5.6L,5.4
TAP II 01 08 16 31.5 24.21N 121.81E 18–0 5.5L,5.4
MOS II 01 08 16 31.4–1.4 24.19N 121.85E 28 5.3b,5.2s
ISCJB II 01 08 16 31.9–.22 24.23N–.01 121.86E–.01 28–1 5.0b,5.0s
BKK II 01 08 16 31.5–.40 24N–4.0 122E–4.0 10 5.8,5.4b
IDC II 01 08 16 31.8–3.7 24.13N 121.86E 23–24 4.8,4.8s
JMA II 01 08 16 31.0 24.15N 121.76E 17–1 5.5,4.8s
GCMT II 01 08 16 32.0–.30 24.19N 121.73E 12 5.3W,4.8s
NEIC II 01 08 16 32.0–.60 24.17N 121.83E 21–4 5.5L,5.3b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s277.00000°,δ26.00000°,λ136.00000°. NP2:ϕ_s47.00000°,δ72.00000°,λ71.00000°. $M_0$1.27000×10^{17}
TAP B.
MOS Error ellipse: s-maj=7.2km s-min=4.6km az=112.2.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.7km az=35.5.
IDC Error ellipse: s-maj=13.1km s-min=9.9km az=67.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c68; s74,c98; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10±.01 $M_{\theta\theta}$-0.20±.01; $M_{\phi\phi}$0.10±.01; $M_{r\theta}$0.70±.03; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$0.99±.03; Best double couple: NP1:ϕ_s35.00000°,δ87.00000°,λ80.00000°. NP2:ϕ_s286.00000°,δ10.00000°,λ161.00000°. Principal axes:
T 1.1950,Plg47.0000°,Azm294.0000°; N 0.0950,Plg10.0000°,Azm35.0000°
; P -1.2910,Plg41.0000°,Azm134.0000° $M_0$1.24300×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.2km az=106.0. Felt [III] at Taipei. Also felt at Danshui, Hsinchu, Kaohsiung, Taichung, Taoyuan and Zhubei. Recorded [5 TAP] in Hualien and Yilan; [3 TAP] in Nantou; [2 TAP] in Changhua, Hsinchu, Miaoli, Taoyuan and Yunlin; [1 TAP] in Taitung. Moment Tensor Solution. s21 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.64 $M_{\theta\theta}$-0.95 $M_{\phi\phi}$4.59 $M_{r\theta}$2.33 $M_{\theta\phi}$-2.88 $M_{\phi r}$6.40 Best double couple: NP1:ϕ_s190.00000°,δ76.00000°,λ-63.00000°. NP2:ϕ_s306.00000°,δ30.00000°,λ-151.00000°. Principal axes:
T 8.3200,Plg26.0000°,Azm260.0000°; N 0.3600,Plg26.0000°,Azm3.0000°
; P -8.6800,Plg52.0000°,Azm131.0000° $M_0$8.50000×10^{16}
TAP II 01 08 19 11.4 24.20N 121.79E 17–0 3.6L
¶601163220
TAP C.
TAP II 01 12 34 51.2 24.23N 121.79E 16–0 2.4L
¶602734452
TAP C.
ISC II 01 12 58 28.1–.87 24.18N–.02 121.84E–.02 17–6 100 0-3
JMA II 01 12 58 27.9 24.16N 121.78E 18–1 2.7 **¶600524310**
ISCJB II 01 12 58 28.2–.40 24.20N–.02 121.88E–.02 10–2 2.7
TAP II 01 12 58 28.3 24.22N 121.81E 18–0 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=32.4.
TAP B.
ISC II 01 13 01 23.6–.85 24.15N–.02 121.84E–.02 13–5 98 0-2
ISCJB II 01 13 01 23.4–.41 24.16N–.02 121.87E–.02 6–3 **¶600524312**
TAP II 01 13 01 23.9 24.20N 121.79E 17–0 3.8L
JMA II 01 13 01 23.3 24.12N 121.77E 15–1 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=40.5.
TAP B.
ISC II 01 14 33 22.8–.78 23.78N–.02 121.61E–.02 28–4 114 0-83
IDC II 01 14 33 11.6–5.2 22.51N 121.94E 0 3.5,3.4 **¶16001980**
JMA II 01 14 33 21.5 23.78N 121.58E 30–1 3.2,3.4
ISCJB II 01 14 33 22.2–.28 23.77N–.02 121.66E–.02 25–2 3.1b,3.4
TAP II 01 14 33 22.3 23.81N 121.59E 28–0 3.9L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=117.0km s-min=60.5km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=144.2.
TAP B.
ISC II 01 14 49 29.6–.89 23.79N–.02 121.62E–.02 29–5 101 0-3
JMA II 01 14 49 28.7–.10 23.77N 121.63E 23–2 2.8 **¶600524340**
ISCJB II 01 14 49 29.6–.27 23.79N–.02 121.64E–.02 28–2 2.8
TAP II 01 14 49 29.6 23.81N 121.60E 28–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=135.5.
TAP C.
ISC II 02 09 26 37.7–.98 24.17N–.02 121.81E–.03 13–7 64 0-2
ISCJB II 02 09 26 37.8–.48 24.19N–.02 121.83E–.03 12–3 **¶600524580**
TAP II 02 09 26 37.8 24.19N 121.77E 16–0 3.1L
JMA II 02 09 26 37.5–.20 24.14N 121.74E 19–2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=30.8.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
ISC II 03 11 53 38.3–.87 24.19N–.02 121.81E–.02 16–6 3.5b 101 0-83
ISCJB II 03 11 53 38.0–.40 24.18N–.02 121.85E–.02 4–3 3.6s,3.4b **¶16009486**
TAP II 03 11 53 38.4 24.20N 121.78E 17–0 3.7L,3.4b
JMA II 03 11 53 38.0–.10 24.16N 121.73E 19–2 2.9,3.4b
IDC II 03 11 53 39.5–13 25.12N 122.21E 0 3.7s,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=43.7.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=368.4km s-min=51.5km az=11.0.
ISC II 04 09 47 57.1–1.0 23.90N–.02 121.68E–.02 33–2 97 0-3
JMA II 04 09 47 55.1–.10 23.87N 121.67E 35–3 2.9 **¶600525319**
ISCJB II 04 09 47 56.8–.25 23.89N–.02 121.70E–.02 38–6 2.9
TAP II 04 09 47 56.4 23.92N 121.63E 40–0 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=142.6.
TAP B.
ISC II 04 17 19 31.9–.91 24.18N–.02 121.82E–.02 14–7 90 0-2
ISCJB II 04 17 19 31.6–.41 24.18N–.02 121.85E–.02 4–3 **¶600525451**
JMA II 04 17 19 31.4–.10 24.15N 121.74E 18–2
TAP II 04 17 19 32.0 24.21N 121.78E 16–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=33.2.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISC II 04 17 21 32.8–.86 24.16N–.02 121.81E–.02 16–6 3.3b 108 0-49
IDC II 04 17 21 31.1–1.7 23.77N 120.92E 0 3.4,3.2 **¶17191683**
ISCJB II 04 17 21 32.4–.41 24.18N–.02 121.86E–.02 4–3 3.2b,3.2
TAP II 04 17 21 33.0 24.20N 121.78E 16–0 3.8L,3.2
JMA II 04 17 21 32.6 24.14N 121.75E 19–1 3.0,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=156.4km s-min=21.7km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=135.5.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 04 18 51 24.9–.93 23.34N–.02 121.62E–.02 32–7 136 0-4
JMA II 04 18 51 23.1–.10 23.33N 121.54E 47–3 3.1 **¶600525484**
ISCJB II 04 18 51 24.1–.31 23.33N–.01 121.66E–.02 27–2 3.1
TAP II 04 18 51 24.2 23.35N 121.65E 33–1 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=43.4.
TAP C.
ISC II 05 06 46 24.1–.94 23.48N–.02 121.64E–.03 32–7 96 0-3
ISCJB II 05 06 46 23.9–.35 23.48N–.02 121.67E–.02 29–2 **¶600525627**
JMA II 05 06 46 23.1–.10 23.49N 121.59E 46–3 3.2
TAP II 05 06 46 24.3 23.51N 121.62E 29–0 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.3km az=41.7.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
TAP D.
ISC II 05 12 35 32.9–.87 23.76N–.02 121.62E–.02 31–5 121 0-3

ISCJB II 05 12 35 32.9–.26 23.76N–.01 121.65E–.02 28–2 ¶600525708
JMA II 05 12 35 32.0–.10 23.75N 121.62E 35–3 2.7
TAP II 05 12 35 33.2 23.78N 121.58E 25–0 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=43.9.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
TAP C.
ISC II 06 14 25 20.4–.82 24.20N–.02 121.82E–.02 17–5 3.5b 122 0-83
IDC II 06 14 25 17.2–.91 24.15N 121.95E 0 3.7,3.6 ¶16019467
JMA II 06 14 25 19.9–.10 24.17N 121.76E 18–2 3.3,3.6
TAP II 06 14 25 20.6 24.23N 121.80E 15–0 3.9L,3.6
ISCJB II 06 14 25 21.1–.30 24.23N–.02 121.86E–.02 16–3 3.5b,3.6
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC II 06 18 10 45.2–.92 24.20N–.02 121.80E–.02 8–7 3.1b 100 0-49
TAP II 06 18 10 44.9 24.22N 121.77E 10–0 3.7L ¶16009487
IDC II 06 18 10 44.4–1.2 23.98N 121.95E 0 3.6,3.6s
JMA II 06 18 10 45.0–.10 24.19N 121.71E 17–1 3.1,3.6s
ISC Event type ke.
TAP B.
IDC Error ellipse: s-maj=43.2km s-min=21.6km az=67.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC II 06 21 06 26.5–1.1 24.26N–.02 121.59E–.02 3–10 49 0-3
TAP II 06 21 06 24.1 24.21N 121.77E 15–0 2.8L ¶16009488
JMA II 06 21 06 38.6 24.20N 121.78E 12–1 2.3
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 06 21 07 23.8–.88 24.20N–.02 121.79E–.02 17–6 3.6b 108 0-83
IDC II 06 21 07 20.0–1.2 24.15N 121.79E 0 3.7,3.7 ¶601164024
TAP II 06 21 07 23.8 24.21N 121.77E 19–0 3.9L,3.7
ISCJB II 06 21 07 24.5–.29 24.20N–.02 121.82E–.02 16–4 3.6b,3.7
JMA II 06 21 07 24.2–.10 24.20N 121.77E 13–2 3.3,3.7
NIED II 06 21 08 00 24.20N 121.80E 17 3.9W,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=23.0km az=54.0.
TAP B.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=136.8.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s196.00000°,δ27.00000°,λ-90.00000°. NP2:ϕ_s16.00000°,δ63.00000°,λ-90.00000°. $M_0$7.22000×10^{14}
ISC II 06 21 08 49.2–.76 24.21N–.02 121.80E–.02 18–2 3.7b 132 0-83
BJI II 06 21 08 47.2 24.24N 121.73E 10 3.8b,3.8L ¶16009489
JMA II 06 21 08 48.9–.10 24.16N 121.77E 17–2 3.8,3.8L
ISCJB II 06 21 08 49.9–.27 24.20N–.02 121.84E–.02 18–3 3.6b,2.9s
TAP II 06 21 08 49.5 24.21N 121.77E 17–0 4.1L,2.9s
IDC II 06 21 08 52.6–3.3 24.22N 121.86E 51–32 3.8,3.6
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=140.1.
TAP B.
IDC Error ellipse: s-maj=19.1km s-min=17.3km az=48.0.
ISC II 06 21 34 30.5–.89 24.19N–.02 121.81E–.02 14–7 87 0-2
ISCJB II 06 21 34 30.2–.40 24.18N–.02 121.84E–.02 5–3 ¶600526405
TAP II 06 21 34 30.5 24.21N 121.77E 17–0 3.1L
JMA II 06 21 34 30.6 24.19N 121.77E 16–1 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=44.8.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 06 22 35 53.5–.77 24.24N–.02 121.75E–.02 10–6 70 0-3
TAP II 06 22 35 50.2 24.21N 121.76E 14–0 2.9L ¶600526415
JMA II 06 22 35 51.2–.10 24.16N 121.52E 10–2 3.0
ISCJB II 06 22 35 55.2–.53 24.18N–.02 121.84E–.02 3–4 3.0
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC II 07 02 11 36.1–.85 24.18N–.02 121.80E–.02 17–5 66 0-2
JMA II 07 02 11 35.1–.20 24.16N 121.77E 19–2 2.1 ¶600526450
ISCJB II 07 02 11 36.8–.35 24.19N–.02 121.81E–.02 16–5 2.1
TAP II 07 02 11 36.3 24.21N 121.77E 16–0 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=38.9.
TAP B.
ISC II 07 05 55 02.1–.71 24.11N–.01 121.70E–.02 12–4 4.5b,3.5s 317 0-148
NIED II 07 05 55 00 24.10N 121.60E 5 4.4W,3.5s ¶16009146
ISCJB II 07 05 55 01.7–.29 24.12N–.01 121.73E–.01 14–1 4.4b,3.6s
JMA II 07 05 55 01.2 24.09N 121.62E 7–1 4.4,3.6s
BJI II 07 05 55 01.0 24.17N 121.67E 10 4.6b,4.6L
NEIC II 07 05 55 01.2–.66 24.06N 121.71E 11–4 4.8b,4.6L
MOS II 07 05 55 02.7–.94 24.05N 121.87E 33 4.9b,4.6L
TAP II 07 05 55 02.0 24.12N 121.66E 14–0 4.6L,4.6L
IDC II 07 05 55 06.7–2.5 24.14N 121.87E 53–23 4.2,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ23.00000°,λ46.00000°. NP2:ϕ_s79.00000°,δ74.00000°,λ107.00000°. $M_0$4.98000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=44.2.
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.4km az=109.0. Felt at Hualien and Taichung. Recorded [5 TAP] in Hualien, [4 TAP] in Yilan, [3 TAP] in Nantou, [2 TAP] in Taichung and [1 TAP] in Taoyuan. Moment Tensor Solution. s14 Moment tensor: Scale 10^{15} Nm; M_{rr}1.85 $M_{\theta\theta}$-1.40 $M_{\phi\phi}$-0.46 $M_{r\theta}$0.62 $M_{\theta\phi}$-2.14 $M_{\phi r}$-0.36 Best double couple: NP1: ϕ_s202.00000°,δ51.00000°,λ46.00000°. NP2:ϕ_s79.00000°,δ56.00000°,λ131.00000°. Principal axes: T 2.2900,Plg57.0000°,Azm47.0000°; N 0.8300,Plg33.0000°,Azm234.0000° ; P -3.1300,Plg3.0000°,Azm142.0000° $M_0$2.80000×10^{15}
MOS Error ellipse: s-maj=12.3km s-min=7.1km az=100.4.
TAP B.
IDC Error ellipse: s-maj=14.7km s-min=12.6km az=77.0.
ISC II 08 09 10 49.0–.89 24.20N–.02 121.81E–.02 14–7 83 0-2
ISCJB II 08 09 10 48.5–.42 24.19N–.02 121.86E–.02 5–3 ¶600526896
TAP II 08 09 10 48.9 24.21N 121.78E 16–0 3.3L
JMA II 08 09 10 48.1–.10 24.15N 121.78E 20–1 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=44.6.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 08 09 29 22.8–.89 24.22N–.02 120.70E–.02 29–5 98 0-2
ISCJB II 08 09 29 22.8–.29 24.22N–.02 120.71E–.02 26–2 ¶16013103
TAP II 08 09 29 22.1 24.20N 120.73E 26–0 3.6L
JMA II 08 09 29 22.1–.50 24.18N 120.77E 0 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=35.2.
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISC II 08 12 38 58.0–1.2 23.86N–.02 121.72E–.02 42–6 126 0-3
JMA II 08 12 38 56.4–.10 23.83N 121.68E 44–1 3.0 ¶16019793
ISCJB II 08 12 38 57.3–.23 23.85N–.02 121.74E–.02 45–4 3.0
TAP II 08 12 38 57.3 23.87N 121.67E 45–0 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=141.6.
TAP B.
ISC II 08 17 51 12.6–1.0 23.61N–.02 121.57E–.02 33–2 112 0-4
JMA II 08 17 51 10.8–.10 23.60N 121.50E 42–3 2.8 ¶600527017
ISCJB II 08 17 51 12.1–.27 23.61N–.01 121.60E–.02 30–2 2.8
TAP II 08 17 51 12.2 23.62N 121.57E 29–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=1.9km az=40.9.
TAP C.
ISC II 08 19 42 04.9–.92 24.21N–.02 121.80E–.02 8–7 99 0-3
JMA II 08 19 42 03.6–.10 24.20N 121.78E 0 2.5 ¶600527036
TAP II 08 19 42 04.9 24.23N 121.76E 9–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
TAP II 10 10 21 25.8 24.47N 121.76E 5–1 1.8L
¶602734460
TAP C.
TAP II 11 21 58 09.4 22.06N 120.39E 43–0 3.7L
¶601164531
TAP D.
ISC II 13 04 58 16.3–1.1 23.60N–.03 121.69E–.03 34–2 62 0-3
JMA II 13 04 58 14.9 23.61N 121.61E 42–3 2.9 ¶600528637
TAP II 13 04 58 15.6 23.61N 121.70E 32–0 3.1L
ISCJB II 13 04 58 16.0–.35 23.60N–.03 121.72E–.02 37–8 3.1L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC II 15 04 13 16.3–.76 24.11N–.02 121.71E–.02 29–5 3.6b 129 0-83
JMA II 15 04 13 15.2 24.08N 121.63E 28 3.4 ¶17192283
ISCJB II 15 04 13 16.4–.24 24.11N–.02 121.74E–.02 26–2 3.5b,3.0s
TAP II 15 04 13 16.4 24.14N 121.67E 28–0 4.2L,3.0s
IDC II 15 04 13 24.9–6.9 24.01N 121.43E 114–66 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=141.7.
TAP B.
IDC Error ellipse: s-maj=36.8km s-min=16.8km az=71.0.
TAP II 15 10 07 55.0 24.40N 121.88E 9–0 2.5L
¶600529264
TAP D.
ISC II 16 14 34 50.2–.89 24.26N–.02 121.82E–.02 18–2 80 0-2
JMA II 16 14 34 48.7–.20 24.11N 121.68E 33–2 2.2 ¶600529685
TAP II 16 14 34 50.0 24.27N 121.80E 12–0 3.2L
ISCJB II 16 14 34 50.3–.38 24.26N–.02 121.84E–.02 10–2 3.2L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
TAP II 16 17 48 21.5 24.43N 121.45E 4–1 1.6L
¶601164847
TAP D.
ISC II 17 20 36 40.9–.88 24.30N–.02 121.77E–.02 29–5 114 0-3
JMA II 17 20 36 39.5 24.23N 121.68E 37–1 3.0 ¶600530108
ISCJB II 17 20 36 40.9–.25 24.30N–.02 121.82E–.02 24–2 3.0
TAP II 17 20 36 40.4 24.31N 121.76E 31–0 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=140.9.
TAP B.
ISC II 17 22 44 41.3–1.0 23.66N–.02 121.65E–.03 33–3 74 0-3
JMA II 17 22 44 40.3 23.65N 121.63E 39–1 ¶600530148
ISCJB II 17 22 44 41.2–.31 23.66N–.02 121.66E–.02 35–8
TAP II 17 22 44 41.0 23.66N 121.63E 33–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=43.9.
TAP C.
TAP II 19 00 07 43.7 23.04N 121.03E 12–1 1.7L
¶601165032
TAP B.
ISC II 20 12 36 24.7–1.3 24.70N–.04 121.90E–.03 82–7 114 0-3
JMA II 20 12 36 23.6–.20 24.67N 121.85E 86–2 3.0 ¶600531050
ISCJB II 20 12 36 24.1–.46 24.72N–.03 121.90E–.02 84–4 3.0
TAP II 20 12 36 24.4 24.72N 121.86E 81–0 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=2.6km az=157.6.
TAP C.
ISC II 20 20 15 43.8–1.0 23.17N–.02 121.51E–.02 14–8 107 0-4
JMA II 20 20 15 42.8–.20 23.17N 121.60E 4–3 3.5 ¶16158278
ISCJB II 20 20 15 44.2–.34 23.15N–.02 121.54E–.02 20–4 3.5
TAP II 20 20 15 45.3 23.21N 121.41E 22–0 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=20.9.
TAP B.
ISC II 20 20 48 37.5–.97 23.19N–.02 121.52E–.02 15–7 90 0-4
JMA II 20 20 48 35.8–.10 23.16N 121.61E 1–1 3.1 ¶16158274
ISCJB II 20 20 48 37.8–.37 23.15N–.02 121.54E–.02 19–4 3.1
TAP II 20 20 48 39.1 23.21N 121.40E 20–0 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=160.5.
TAP B.
ISC II 20 23 33 43.1–1.2 24.10N–.03 121.37E–.03 73–6 111 0-3
ISCJB II 20 23 33 42.7–.39 24.10N–.02 121.38E–.02 76–3 ¶16158258
TAP II 20 23 33 43.0 24.07N 121.38E 66–0 3.5L
JMA II 20 23 33 43.1–.10 24.02N 121.42E 63–1 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=136.1.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC II 20 23 36 39.9–.90 24.44N–.02 121.99E–.02 16–7 65 0-2
ISCJB II 20 23 36 39.7–.44 24.44N–.02 122.02E–.02 9–3 ¶600531171
JMA II 20 23 36 39.5–.10 24.37N 121.92E 29 2.6
TAP II 20 23 36 40.6 24.45N 121.91E 11–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=149.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC II 23 16 56 04.7–.85 24.83N–.02 121.96E–.02 12–6 67 0-3
TAP II 23 16 56 04.3 24.83N 121.97E 6–0 3.0L ¶600531992
ISCJB II 23 16 56 05.1–.40 24.81N–.02 122.01E–.02 6–3 3.0L
JMA II 23 16 56 05.5–.10 24.82N 121.91E 26 2.0
ISC Event type ke.
TAP D.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=144.1.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 24 04 22 48.0–1.1 24.30N–.02 121.92E–.02 34–2 101 0-3
JMA II 24 04 22 46.9–.10 24.28N 121.88E 47–2 2.6 ¶600532141
ISCJB II 24 04 22 48.2–.24 24.31N–.02 121.96E–.02 36–7 2.6
TAP II 24 04 22 48.3 24.33N 121.88E 34–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=144.0.
TAP C.
ISC II 24 06 07 40.7–.94 23.54N–.02 121.55E–.03 30–7 62 0-3
JMA II 24 06 07 39.9 23.54N 121.52E 36–1 ¶600532155
ISCJB II 24 06 07 40.7–.37 23.53N–.02 121.59E–.03 27–3
TAP II 24 06 07 40.7 23.54N 121.55E 25–0 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=36.9.
TAP D.
ISC II 25 14 42 24.6–.00 23.93N–.02 121.70E–.02 33–2 84 0-3
TAP II 25 14 42 23.7 23.95N 121.65E 40–1 3.1L ¶600532532
JMA II 25 14 42 23.1–.10 23.90N 121.66E 39–1 2.7
ISCJB II 25 14 42 24.2–.27 23.93N–.02 121.72E–.02 38–6 2.7
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC II 26 05 09 33.2–1.0 23.18N–.02 121.47E–.03 15–8 81 0-3
JMA II 26 05 09 31.8–.10 23.16N 121.56E 5–3 ¶600532714
ISCJB II 26 05 09 33.3–.35 23.14N–.02 121.51E–.02 21–4
TAP II 26 05 09 33.9 23.19N 121.37E 19–0 3.2L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=8.7.
TAP C.
ISC II 26 10 23 18.2–.78 23.59N–.01 120.70E–.02 14–5 123 0-3
JMA II 26 10 23 16.4–.10 23.61N 120.69E 0 3.1 **¶16166862**
TAP II 26 10 23 17.6 23.58N 120.72E 14–0 3.6L
IASPE II 26 10 23 18.1–.80 23.59N–.01 120.70E–.02 14–5 3.6L
ISCJB II 26 10 23 18.7–.20 23.59N–.01 120.72E–.01 11–1 3.6L
ISC Event type ke.
TAP A.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke.
ISC II 27 08 36 26.7–1.9 24.89N–.07 121.91E–.04 108–10 64 0-2
ISCJB II 27 08 36 26.5–.76 24.88N–.05 121.91E–.03 108–5 **¶600534340**
TAP II 27 08 36 26.2 24.91N 121.91E 112–1 3.3L
JMA II 27 08 36 26.0–.20 24.82N 121.86E 109–2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=3.9km az=163.9.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP III 01 02 32 00.2 22.51N 120.97E 12–0 3.6L
¶601165721
TAP B.
ISC III 01 22 06 48.1–1.5 24.84N–.05 121.82E–.03 106–8 110 0-3
ISCJB III 01 22 06 47.6–.53 24.84N–.03 121.83E–.02 108–3 **¶600535619**
JMA III 01 22 06 47.6–.20 24.76N 121.76E 104–2 3.4
TAP III 01 22 06 48.2 24.84N 121.81E 104–0 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.8km az=157.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC III 02 06 49 31.1–.86 24.11N–.02 121.75E–.02 10–6 3.5b 102 0-83
IDC III 02 06 49 24.0–4.2 23.27N 121.82E 0 3.9L,3.8 **¶16176470**
JMA III 02 06 49 30.7–.10 24.10N 121.71E 8–2 3.4,3.8
ISCJB III 02 06 49 30.8–.39 24.12N–.01 121.77E–.02 2–3 3.4b,3.8
TAP III 02 06 49 31.0 24.12N 121.71E 8–0 3.9L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=96.1km s-min=38.7km az=9.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=37.1.
TAP C.
ISC III 02 20 25 06.9–.94 23.44N–.02 121.55E–.02 25–7 112 0-3
JMA III 02 20 25 06.5 23.41N 121.55E 30–2 2.9 **¶600535911**
ISCJB III 02 20 25 06.9–.30 23.43N–.02 121.58E–.02 24–3 2.9
TAP III 02 20 25 07.5 23.47N 121.49E 25–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=39.9.
TAP C.
ISC III 03 14 31 05.2–.99 23.79N–.02 121.62E–.03 33–2 74 0-3
JMA III 03 14 31 04.0–.10 23.75N 121.63E 32–3 **¶600536123**
TAP III 03 14 31 05.0 23.81N 121.57E 36–0 2.9L
ISCJB III 03 14 31 05.1–.36 23.78N–.02 121.64E–.03 37–5 2.9L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 04 14 55 32.8–1.5 24.77N–.05 121.82E–.03 91–8 93 0-3
JMA III 04 14 55 31.9–.10 24.72N 121.78E 92–1 2.9 **¶600536464**
TAP III 04 14 55 32.5 24.80N 121.75E 95–0 3.6L
ISCJB III 04 14 55 32.3–.57 24.78N–.03 121.83E–.02 93–4 3.6L
ISC Event type ke.
TAP A.
ISCJB Event type ke.
ISC III 05 03 53 29.1–1.1 23.48N–.02 121.68E–.03 25–12 68 0-3
JMA III 05 03 53 28.6–.10 23.46N 121.69E 37–4 3.0 **¶600536663**
ISCJB III 05 03 53 29.1–.40 23.48N–.02 121.72E–.02 27–3 3.0
TAP III 05 03 53 29.7 23.51N 121.66E 28–0 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=37.3.
TAP C.
ISC III 05 06 16 15.4–1.2 23.91N–.02 121.94E–.02 20–5 88 0-2
JMA III 05 06 16 15.8–.10 23.93N 121.81E 50–1 2.8 **¶600536691**
ISCJB III 05 06 16 16.8–.37 23.95N–.02 121.92E–.02 31–3 2.8
TAP III 05 06 16 17.1 23.99N 121.83E 44–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.3km az=151.2.
TAP C.
ISC III 05 07 18 35.0–1.0 23.18N–.02 121.45E–.02 11–8 102 0-3
JMA III 05 07 18 33.8–.10 23.15N 121.54E 5–3 3.3 **¶600536704**
ISCJB III 05 07 18 35.9–.30 23.15N–.02 121.45E–.02 20–3 3.3
TAP III 05 07 18 36.2 23.19N 121.36E 17–0 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=28.3.
TAP B.
ISC III 05 08 10 28.6–.91 24.22N–.02 121.81E–.02 13–7 79 0-2
JMA III 05 08 10 28.0–.10 24.19N 121.74E 18–2 2.6 **¶16196811**
TAP III 05 08 10 28.8 24.24N 121.77E 15–0 3.5L
ISCJB III 05 08 10 28.4–.39 24.21N–.02 121.84E–.02 7–2 3.5L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC III 05 13 01 25.3–.72 24.89N–.04 121.90E–.03 118–4 3.5b 142 0-71
ISCJB III 05 13 01 24.6–.28 24.91N–.03 121.89E–.02 122–2 3.5b **¶16196812**
JMA III 05 13 01 25.3–.20 24.80N 121.83E 115–2 3.7
TAP III 05 13 01 25.9 24.89N 121.88E 114–0 4.3L
IDC III 05 13 01 26.6–4.3 24.91N 122.10E 135–43 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.5km az=149.9.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=34.7km s-min=17.8km az=62.0.
ISC III 05 22 16 17.2–.85 23.33N–.02 121.03E–.02 9–6 105 0-3
JMA III 05 22 16 16.3–.20 23.35N 121.02E 3–3 3.1 **¶601166115**
TAP III 05 22 16 16.8 23.34N 121.04E 2–0 3.6L
ISCJB III 05 22 16 17.4–.25 23.32N–.01 121.08E–.01 6–2 3.6L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
TAP III 06 11 46 53.3 24.34N 121.79E 14–0 1.7L
¶601166157
TAP D.
TAP III 06 11 46 60.0 24.51N 121.87E 8–1 1.3L
¶601166160
TAP D.
ISC III 06 23 40 34.9–1.0 23.78N–.02 121.84E–.03 17–7 3.5b 95 0-83
IDC III 06 23 40 33.9–1.3 24.20N 121.97E 0 3.7,3.5 **¶17193386**
JMA III 06 23 40 34.0–.20 23.80N 121.85E 2–3 3.3,3.5
ISCJB III 06 23 40 35.0–.49 23.76N–.02 121.89E–.03 17–5 3.4b,3.5
TAP III 06 23 40 35.9 23.81N 121.76E 18–0 3.9L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=65.5km s-min=29.6km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.5km az=33.3.
TAP C.
TAP III 07 20 32 00.3 24.40N 121.97E 19–0 2.6L
¶601166265
TAP D.
TAP III 07 20 32 07.0 24.43N 121.96E 21–0 2.6L
¶601166268
TAP D.
ISC III 08 02 46 52.5–.73 23.94N–.02 121.86E–.02 44–6 4.0b 171 0-83
IDC III 08 02 46 45.9–.72 23.97N 121.91E 0 4.1,4.0 **¶16268370**
BJI III 08 02 46 50.6 24.09N 121.67E 5 4.3b,4.2b
JMA III 08 02 46 52.4 23.91N 121.81E 47–1 4.4,4.2b
ISCJB III 08 02 46 52.7–.18 23.94N–.02 121.88E–.01 58–2 3.9b,4.2b
TAP III 08 02 46 53.2 23.94N 121.82E 45–0 4.5L,4.2b
NEIC III 08 02 46 53.1 23.99N 121.77E 50 4.0b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=16.2km az=58.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=148.0.
TAP B.
NEIC Event type fe. Recorded [3 TAP] in Hualien, [2 TAP] in Yilan and [1 TAP] in Changhua and Nantou. After TAP.
ISC III 08 03 47 12.2–.84 23.71N–.02 121.43E–.02 15–6 85 0-3
JMA III 08 03 47 10.6–.10 23.66N 121.56E 0 **¶600537769**
TAP III 08 03 47 12.1 23.71N 121.42E 16–0 3.3L
ISCJB III 08 03 47 12.5–.27 23.69N–.02 121.48E–.02 18–3 3.3L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
TAP III 12 13 13 05.2 23.59N 120.71E 16–0 3.7L
¶601166612
TAP B.
ISC III 12 14 20 05.2–.80 23.60N–.01 120.71E–.02 17–5 107 0-2
TAP III 12 14 20 04.7 23.59N 120.72E 16–0 3.7L **¶601166619**
IASPE III 12 14 20 05.1–.81 23.60N–.01 120.71E–.02 16–5 3.7L
ISCJB III 12 14 20 05.8–.26 23.60N–.01 120.71E–.02 14–2 3.7L
ISC Event type ke.
TAP A.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke.
TAP III 13 10 59 36.6 23.08N 121.32E 18–1 1.9L
¶601166678
TAP C.
ISC III 13 17 37 01.7–1.3 24.63N–.03 121.87E–.02 69–6 115 0-3
JMA III 13 17 37 00.4–.20 24.62N 121.83E 73–3 2.3 **¶600544288**
TAP III 13 17 37 01.3 24.62N 121.83E 69–0 3.3L
ISCJB III 13 17 37 01.3–.39 24.62N–.02 121.88E–.02 70–4 3.3L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
TAP III 15 10 54 00.4 24.81N 121.84E 82–1 3.6L
¶601166805
TAP B.
ISC III 16 13 12 17.6–.56 22.53N–.02 120.66E–.03 44–5 4.3b,3.4s 200 0-147
IDC III 16 13 12 10.5–.55 22.52N 120.83E 0 4.3,4.2 **¶16327726**
BJI III 16 13 12 15.7 22.73N 120.51E 9 4.6b,4.3b
JMA III 16 13 12 15.5–.10 22.49N 120.70E 46–1 5.0,4.3b
NEIC III 16 13 12 16.4–.59 22.48N 120.80E 42–5 4.4b,4.3b
TAP III 16 13 12 16.6 22.56N 120.68E 35–0 4.7L,4.3b
ISCJB III 16 13 12 16.1–.21 22.51N–.02 120.69E–.02 51–2 4.3b,3.3s
ISC Event type fe.
NEIC Event type fe. Felt [II] at Kaohsiung. Also felt at Tainan. Recorded [3 TAP] in Pingtung and Taitung; [2 TAP] in Yunlin; [1 TAP] in Changhua, Chiayi and Penghu.
TAP B.
ISCJB Event type fe.
ISC III 17 19 31 33.6–1.3 24.78N–.04 121.97E–.03 87–6 122 0-3
ISCJB III 17 19 31 32.6–.45 24.81N–.03 121.97E–.02 92–3 **¶601166947**
JMA III 17 19 31 32.4–.20 24.74N 121.92E 92–2 3.0
TAP III 17 19 31 32.6 24.82N 121.96E 92–0 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.4km az=158.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC III 18 11 12 23.7–.85 24.15N–.02 121.82E–.02 13–6 3.8b,3.6s 140 0-83
NIED III 18 11 12 00 24.10N 121.70E 8 4.1W,3.6s **¶16336103**
BJI III 18 11 12 23.3 24.18N 121.82E 6 4.4b,4.3L
ISCJB III 18 11 12 23.5–.36 24.17N–.01 121.83E–.02 3–2 3.7b,3.7s
TAP III 18 11 12 23.6 24.16N 121.78E 13–0 4.4L,3.7s
JMA III 18 11 12 23.3–.10 24.13N 121.74E 10–2 4.2,3.7s
IDC III 18 11 12 28.7–3.4 24.19N 121.91E 57–34 3.8,3.7s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ45.00000°,λ-125.00000°. NP2:ϕ_s51.00000°,δ54.00000°,λ-60.00000°. $M_0$1.51000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=42.4.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=19.9km s-min=16.2km az=63.0.
ISC III 18 18 25 36.1–.96 24.43N–.02 121.97E–.02 19–2 57 0-2
ISCJB III 18 18 25 35.6–.47 24.43N–.02 122.03E–.02 4–4 **¶600556169**
JMA III 18 18 25 36.1–.10 24.40N 121.94E 24 2.5
TAP III 18 18 25 37.0 24.46N 121.90E 10–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=159.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC III 18 18 47 22.0–1.2 23.29N–.02 121.83E–.03 23–13 90 0-5
JMA III 18 18 47 21.0–.30 23.26N 121.87E 17–5 2.9 **¶600556203**
ISCJB III 18 18 47 21.2–.45 23.27N–.02 121.89E–.02 15–5 2.9
TAP III 18 18 47 22.9 23.28N 121.80E 28–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=42.7.
TAP C.
ISC III 18 21 56 46.6–.92 24.45N–.02 121.98E–.02 13–7 3.4b 134 0-49
NIED III 18 21 56 00 24.40N 121.90E 14 3.8W **¶16339519**
ISCJB III 18 21 56 45.9–.36 24.49N–.02 122.04E–.01 6–2 3.4b
IDC III 18 21 56 45.1–1.1 24.43N 121.95E 0 3.6,3.5
BJI III 18 21 56 46.0 24.60N 121.97E 5 3.8L,3.5
JMA III 18 21 56 46.3–.10 24.44N 121.94E 16 3.8,3.5
TAP III 18 21 56 46.9 24.49N 121.94E 18–0 4.3L,3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ42.00000°,λ127.00000°. NP2:ϕ_s347.00000°,δ58.00000°,λ62.00000°. $M_0$5.86000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=157.8.
IDC Error ellipse: s-maj=32.4km s-min=19.7km az=60.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC III 18 22 00 35.7–.90 24.47N–.02 121.90E–.02 11–7 51 0-2
ISCJB III 18 22 00 35.6–.46 24.47N–.02 121.91E–.02 7–4 **¶600556455**
TAP III 18 22 00 35.9 24.49N 121.83E 10–1 2.7L
JMA III 18 22 00 36.0–.10 24.46N 121.86E 11 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=139.0.
TAP D.
ISC III 19 10 10 53.9–1.2 23.54N–.03 121.95E–.03 19–3 75 0-3
JMA III 19 10 10 53.5–.10 23.55N 121.99E 12 2.8 **¶600557203**
TAP III 19 10 10 55.3 23.57N 121.93E 20–1 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
TAP III 19 10 31 59.4 24.50N 121.87E 11–1 1.8L
¶603310079
TAP D.
ISC III 19 20 25 10.6–.95 23.20N–.02 121.59E–.02 31–8 103 0-3
JMA III 19 20 25 09.7–.10 23.19N 121.54E 42–3 3.2 **¶601167076**

TAP III 19 20 25 10.4 23.21N 121.61E 33–0 3.2L
ISCJB III 19 20 25 10.3–.34 23.19N–.02 121.62E–.02 29–2 3.2L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
TAP III 20 14 56 10.1 23.11N 120.98E 8–0 3.5L
¶601167155
TAP B.
ISC III 20 15 22 28.9–.86 23.10N–.01 120.99E–.02 9–6 109 0-3
JMA III 20 15 22 27.8–.10 22.98N 121.38E 5–2 3.2 **¶600559164**
TAP III 20 15 22 28.9 23.10N 120.98E 4–0 3.6L
ISCJB III 20 15 22 29.2–.28 23.08N–.01 121.03E–.02 5–3 3.6L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 20 16 49 29.4–.78 23.92N–.02 121.53E–.02 23–4 3.5b 132 0-83
JMA III 20 16 49 28.3 23.89N 121.54E 11–2 3.1 **¶601167192**
ISCJB III 20 16 49 29.8–.22 23.93N–.01 121.57E–.02 21–2 3.3b
TAP III 20 16 49 29.6 23.95N 121.48E 20–0 3.9L
IDC III 20 16 49 44.4–10 23.74N 122.99E 138–82 3.5,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=40.7.
TAP B.
IDC Error ellipse: s-maj=163.5km s-min=23.1km az=92.0.
ISC III 20 20 57 39.9–.95 23.08N–.01 121.03E–.02 7–7 134 0-45
ISCJB III 20 20 57 39.9–.29 23.07N–.01 121.04E–.02 2–3 3.3b **¶17197550**
JMA III 20 20 57 39.4–.20 23.01N 121.31E 0 3.3
TAP III 20 20 57 39.8 23.10N 120.98E 7–0 3.9L
IDC III 20 20 57 42.8–1.8 23.00N 121.50E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=0.4.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=33.4km s-min=18.6km az=140.0.
TAP III 20 21 10 38.1 23.20N 120.95E 8–0 1.4L
¶601167230
TAP A.
TAP III 20 21 10 41.2 23.12N 120.99E 12–1 1.5L
¶601167233
TAP B.
ISC III 22 06 29 25.2–.99 23.74N–.03 121.69E–.03 31–9 77 0-3
JMA III 22 06 29 24.6 23.74N 121.71E 27–1 3.5 **¶600562270**
ISCJB III 22 06 29 25.2–.36 23.74N–.02 121.73E–.02 31–2 3.5
TAP III 22 06 29 25.5 23.77N 121.67E 37–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=151.3.
TAP C.
TAP III 22 22 03 42.1 22.04N 120.42E 52–0 3.5L
¶601167404
TAP D.
ISC III 23 00 15 09.0–1.3 24.09N–.04 121.97E–.05 31–9 31 0-2
ISCJB III 23 00 15 08.4–.83 24.08N–.04 122.04E–.05 20–8 **¶600563330**
JMA III 23 00 15 08.2 24.06N 121.99E 33–2
TAP III 23 00 15 09.1 24.13N 121.96E 26–0 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.3km az=38.3.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
TAP III 23 14 58 05.2 22.88N 120.72E 9–0 3.0L
¶601167456
TAP B.
ISC III 23 17 13 49.1–2.1 24.84N–.07 121.81E–.06 88–11 43 0-2
JMA III 23 17 13 49.6–.40 24.81N 121.82E 79–4 **¶600564238**
ISCJB III 23 17 13 49.0–.90 24.85N–.05 121.79E–.06 87–5
TAP III 23 17 13 49.5 24.81N 121.80E 82–0 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=3.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.5km az=44.5.
TAP B.
ISC III 23 20 27 38.1–.87 22.53N–.02 120.64E–.03 36–1 3.8b 127 0-85
NEIC III 23 20 27 29.3–1.8 22.29N 120.27E 10 4.0b **¶16352085**
IDC III 23 20 27 32.1–.93 22.41N 120.90E 0 3.8,3.7
JMA III 23 20 27 35.8–.10 22.40N 120.72E 45–2 4.3,3.7
TAP III 23 20 27 37.4 22.55N 120.68E 36–0 4.1L,3.7
ISCJB III 23 20 27 37.0–.31 22.51N–.02 120.69E–.02 51–2 3.6b,3.7
ISC Event type se.
NEIC Event type fe. Recorded [2 TAP] in Kaohsiung, Pingtung and Taitung.
TAP B.
ISCJB Event type fe.
TAP III 23 20 41 32.3 23.08N 120.70E 8–0 1.8L
¶601167479
TAP C.
ISC III 25 21 04 24.8–1.7 24.07N–.02 121.72E–.03 36–2 94 0-3
JMA III 25 21 04 23.2 24.02N 121.72E 43–1 3.0 **¶600566972**
TAP III 25 21 04 24.1 24.08N 121.68E 41–0 3.1L
ISCJB III 25 21 04 24.2–.29 24.06N–.02 121.74E–.02 43–4 3.1L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
ISC III 26 07 19 12.5–.55 24.87N–.03 121.92E–.03 99–4 3.9b 200 0-98
BJI III 26 07 19 09.5 24.87N 121.91E 90 4.8b,4.5b **¶16361364**
ISCJB III 26 07 19 11.5–.18 24.85N–.02 121.94E–.02 98–1 4.0b,4.5b
NEIC III 26 07 19 11.8–.41 24.83N 121.93E 98–5 4.7b,4.5b
JMA III 26 07 19 11.2–.20 24.81N 121.88E 95–2 3.9,4.5b
IDC III 26 07 19 12.6–4.0 24.87N 121.89E 106–39 4.0,4.0
TAP III 26 07 19 12.1 24.84N 121.92E 93–0 4.7L,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=158.0.
NEIC Event type fe. Error ellipse: s-maj=9.9km s-min=7.9km az=134.0. Felt [II] at Taipei. Also felt at Shulin and Zhongli. Recorded [2 TAP] in Miaoli, Taipei, Taoyuan and Yilan; [1 TAP] in Hsinchu and Hualien.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=31.8km s-min=15.4km az=64.0.
TAP B.
ISC III 28 13 17 51.3–.96 24.46N–.02 121.91E–.02 19–3 69 0-2
JMA III 28 13 17 50.8–.10 24.41N 121.83E 36 2.5 **¶600570112**
TAP III 28 13 17 51.4 24.47N 121.88E 21–0 3.4L
ISCJB III 28 13 17 51.3–.43 24.47N–.02 121.95E–.02 11–3 3.4L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
TAP III 29 03 53 48.6 23.30N 121.02E 5–0 3.5L
¶601167790
TAP C.
ISC III 29 13 07 14.2–.94 24.37N–.02 122.00E–.02 26–8 83 0-2
JMA III 29 13 07 13.3–.20 24.32N 121.93E 48–3 **¶600571541**
TAP III 29 13 07 14.1 24.40N 121.98E 24–0 3.2L
ISCJB III 29 13 07 14.3–.29 24.40N–.02 122.01E–.02 28–2 3.2L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC III 30 04 22 32.2–.36 23.92N–.02 121.57E–.02 21–1 4.4b,3.8s 262 0-100
NIED III 30 04 22 00 23.90N 121.50E 8 4.6W,3.8s **¶16391174**
JMA III 30 04 22 30.7 23.89N 121.53E 14–2 4.3,3.8s
TAP III 30 04 22 31.9 23.94N 121.48E 19–0 4.7L,3.8s
ISCJB III 30 04 22 31.7–.19 23.92N–.01 121.58E–.01 26–1 4.3b,3.8s
NEIC III 30 04 22 31.5 23.91N 121.55E 23 4.7L,4.7b
BJI III 30 04 22 32.1 24.00N 121.45E 20 4.7b,4.4L
IDC III 30 04 22 35.9–2.7 23.92N 121.69E 58–25 4.2,4.1
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ19.00000°,λ42.00000°. NP2:ϕ_s80.00000°,δ77.00000°,λ105.00000°. M_o8.34000×10^{15}

JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=37.5.
NEIC Event type fe. Felt at Hualien and Yungho. Recorded [6 TAP] in Hualien, [4 TAP] in Nantou, [2 TAP] in Yilan and [1 TAP] in Changhua, Taitung and Yunlin. After TAP. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}3.84 $M_{\theta\theta}$-2.36 $M_{\phi\phi}$-1.48 $M_{r\theta}$0.18 $M_{\theta\phi}$-2.43 $M_{\phi r}$-0.92 Best double couple: NP1:ϕ_s217.00000°,δ50.00000°,λ73.00000°. NP2:ϕ_s63.00000°,δ43.00000°,λ109.00000°. Principal axes: T 4.0600,Plg76.0000°,Azm63.0000° ; N 0.3500,Plg13.0000°,Azm229.0000°; P -4.4100,Plg3.0000°,Azm320.0000° M_o4.30000×10^{15}
IDC Error ellipse: s-maj=15.1km s-min=12.7km az=62.0.
ISC III 31 16 05 48.4–.87 23.18N–.02 121.65E–.02 20–9 136 0-6
ISCJB III 31 16 05 48.8–.32 23.17N–.02 121.68E–.02 28–2 **¶16410019**
TAP III 31 16 05 49.8 23.21N 121.57E 39–0 4.0L
JMA III 31 16 05 50.3–.20 23.35N 121.69E 106 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=144.5.
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC III 31 16 29 22.3–1.2 23.19N–.03 121.73E–.02 4–11 77 0-3
TAP III 31 16 29 25.2 23.22N 121.64E 29–0 3.1L **¶600574149**
JMA III 31 16 29 26.3–.30 23.31N 121.72E 101 2.5
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.
ISC III 31 22 48 18.6–.84 23.69N–.01 121.02E–.02 12–6 125 0-3
JMA III 31 22 48 17.9–.30 23.63N 121.16E 0 3.4 **¶16409982**
TAP III 31 22 48 17.8 23.70N 120.97E 16–0 3.9L
ISCJB III 31 22 48 18.8–.26 23.70N–.01 121.00E–.01 13–2 3.9L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC IV 01 00 20 59.9–.92 24.09N–.02 121.75E–.03 11–6 85 0-2
JMA IV 01 00 20 58.6–.20 24.06N 121.71E 0 3.1 **¶600574592**
TAP IV 01 00 20 59.1 24.09N 121.75E 8–0 3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISC IV 01 01 28 24.4–.86 23.92N–.02 121.52E–.02 18–2 109 0-3
JMA IV 01 01 28 23.2–.10 23.90N 121.53E 12–3 3.0 **¶16401593**
IASPE IV 01 01 28 24.5–.87 23.93N–.02 121.51E–.03 20–3 3.0
ISCJB IV 01 01 28 24.4–.22 23.92N–.01 121.55E–.02 21–2 3.0
TAP IV 01 01 28 24.2 23.95N 121.47E 19–0 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
IASPE Event type ke. Error ellipse: s-maj=4.2km s-min=2.1km az=113.8. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=38.7.
TAP B.
ISC IV 01 17 52 18.0–.98 23.15N–.02 121.38E–.03 19–2 64 0-2
JMA IV 01 17 52 16.4–.20 23.15N 121.49E 0 **¶600575281**
ISCJB IV 01 17 52 18.2–.41 23.15N–.02 121.41E–.03 17–4
TAP IV 01 17 52 18.3 23.17N 121.35E 17–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=14.6.
TAP C.
ISC IV 02 01 51 23.0–1.1 23.84N–.02 121.55E–.02 34–2 103 0-3
JMA IV 02 01 51 21.4–.10 23.81N 121.52E 40–2 3.2 **¶600575622**
ISCJB IV 02 01 51 22.7–.25 23.84N–.02 121.58E–.02 38–5 3.2
TAP IV 02 01 51 22.1 23.85N 121.57E 38–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=44.2.
TAP C.
ISC IV 03 03 31 38.9–1.4 23.86N–.04 121.88E–.05 20–5 39 0-1
JMA IV 03 03 31 39.3 23.91N 121.81E 49–1 **¶600576462**
ISCJB IV 03 03 31 40.3–.73 23.91N–.03 121.88E–.05 39–10
TAP IV 03 03 31 40.3 23.94N 121.80E 44–0 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.8km az=31.7.
TAP D.
TAP IV 03 09 59 40.8 24.09N 121.74E 8–0 3.5L
¶601168125
TAP B.
ISC IV 03 10 18 42.8–1.1 24.06N–.02 121.80E–.03 6–9 72 0-3
JMA IV 03 10 18 41.8–.20 24.05N 121.73E 0 2.8 **¶600576687**
TAP IV 03 10 18 42.9 24.11N 121.73E 8–0 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP D.
ISC IV 05 13 43 43.2–.82 24.27N–.02 121.81E–.02 13–5 107 0-3
ISCJB IV 05 13 43 42.4–.37 24.28N–.02 121.84E–.02 2–3 **¶600578262**
TAP IV 05 13 43 42.7 24.30N 121.77E 16–0 3.6L
JMA IV 05 13 43 42.6 24.25N 121.68E 26–1 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=142.6.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 05 13 52 10.5–.80 24.30N–.02 121.76E–.02 17–5 102 0-3
ISCJB IV 05 13 52 10.0–.40 24.29N–.02 121.83E–.02 2–3 **¶601168290**
JMA IV 05 13 52 10.1–.10 24.23N 121.71E 22–1 2.7
TAP IV 05 13 52 10.3 24.30N 121.77E 16–0 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=136.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC IV 05 14 28 48.5–.81 24.30N–.02 121.77E–.02 15–5 84 0-2
ISCJB IV 05 14 28 47.6–.40 24.28N–.02 121.83E–.02 3–3 **¶600578295**
TAP IV 05 14 28 47.8 24.30N 121.77E 18–0 3.3L
JMA IV 05 14 28 47.9–.10 24.27N 121.74E 16–2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=34.7.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC IV 06 19 30 01.8–1.0 24.45N–.02 121.94E–.02 20–3 80 0-2
JMA IV 06 19 30 01.2–.10 24.39N 121.88E 39–5 2.2 **¶600579257**
ISCJB IV 06 19 30 02.1–.28 24.47N–.02 121.95E–.02 23–3 2.2
TAP IV 06 19 30 02.3 24.48N 121.87E 18–0 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=145.3.
TAP D.
ISC IV 07 13 03 39.2–.80 24.28N–.02 121.80E–.02 17–5 118 0-3
ISCJB IV 07 13 03 38.6–.35 24.28N–.01 121.84E–.02 6–2 **¶16414228**
JMA IV 07 13 03 38.8–.10 24.28N 121.77E 11–4 3.3
TAP IV 07 13 03 39.0 24.30N 121.76E 19–0 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=37.7.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISC IV 08 05 02 52.3–.77 24.27N–.02 121.78E–.02 16–5 3.4b 109 0-83
ISCJB IV 08 05 02 51.9–.35 24.28N–.01 121.82E–.02 6–2 3.3b **¶16414397**
TAP IV 08 05 02 51.8 24.29N 121.77E 19–0 3.9L
JMA IV 08 05 02 52.0–.10 24.23N 121.68E 23–1 3.3
IDC IV 08 05 03 05.3–6.8 24.19N 122.02E 140–66 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=40.3.
TAP B.

JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=46.2km s-min=21.4km az=71.0.
ISC IV 09 07 14 27.2–.94 24.44N–.04 121.99E–.03 16–8 25 0-2
ISCJB IV 09 07 14 27.6–.47 24.45N–.04 122.00E–.03 18–11 ¶600581728
JMA IV 09 07 14 27.3 24.36N 121.95E 31
TAP IV 09 07 14 28.0 24.45N 121.92E 12–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=164.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
TAP IV 10 20 44 17.4 23.59N 120.71E 16–0 3.2L
¶16416717
TAP A.
ISC IV 10 20 44 21.6–.81 23.60N–.02 120.70E–.02 15–5 101 0-3
IASPE IV 10 20 44 21.5–.82 23.61N–.02 120.70E–.02 16–5 ¶601168716
TAP IV 10 20 44 21.3 23.60N 120.70E 15–0 3.7L
JMA IV 10 20 44 21.5–.20 23.61N 120.70E 11–4 3.1
ISCJB IV 10 20 44 22.3–.21 23.60N–.01 120.71E–.02 17–3 3.1
ISC Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
TAP B.
ISCJB Event type ke.
ISC IV 11 02 25 36.4–.89 23.79N–.02 121.46E–.03 26–5 81 0-3
JMA IV 11 02 25 35.7–.10 23.76N 121.51E 19–3 ¶600583155
ISCJB IV 11 02 25 36.6–.28 23.79N–.02 121.47E–.02 24–3
TAP IV 11 02 25 37.6 23.81N 121.40E 21–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.0km az=31.7.
TAP B.
ISC IV 11 03 07 52.5–1.5 24.79N–.05 121.99E–.03 86–8 70 0-2
TAP IV 11 03 07 51.4 24.81N 121.98E 92–0 3.5L ¶600583188
JMA IV 11 03 07 51.6–.20 24.74N 121.95E 89–2 2.6
ISCJB IV 11 03 07 52.0–.62 24.79N–.04 122.00E–.02 88–5 2.6
ISC Event type ke.
TAP C.
ISCJB Event type ke.
TAP IV 11 17 06 22.7 22.27N 120.21E 24–0 3.6L
¶601168780
TAP C.
ISC IV 11 21 18 41.5–.84 24.38N–.02 121.83E–.02 12–6 70 0-2
JMA IV 11 21 18 40.7–.20 24.37N 121.81E 0 2.8 ¶600584183
ISCJB IV 11 21 18 41.3–.44 24.38N–.02 121.86E–.02 4–4 2.8
TAP IV 11 21 18 41.4 24.40N 121.81E 9–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=42.7.
TAP B.
ISC IV 11 22 32 40.6–.91 24.39N–.02 121.82E–.02 10–7 63 0-2
JMA IV 11 22 32 39.9–.10 24.37N 121.82E 0 ¶600584247
ISCJB IV 11 22 32 40.4–.48 24.38N–.02 121.84E–.02 1–5
TAP IV 11 22 32 40.4 24.41N 121.79E 10–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=138.8.
TAP D.
ISC IV 12 18 08 35.9–1.2 23.36N–.03 121.97E–.03 24–13 82 1-3
TAP IV 12 18 08 36.8 23.35N 121.98E 31–0 3.1L ¶600585772
JMA IV 12 18 08 36.0–.10 23.35N 121.92E 49 2.5
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 13 07 41 34.9–.83 24.40N–.02 121.83E–.02 12–6 67 0-3
ISCJB IV 13 07 41 34.7–.40 24.38N–.02 121.87E–.02 6–3 ¶600586319
TAP IV 13 07 41 34.9 24.40N 121.81E 9–0 3.1L
JMA IV 13 07 41 34.6–.10 24.39N 121.82E 5–2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=41.8.
TAP B.
ISC IV 13 14 45 51.4–1.2 24.19N–.03 121.78E–.03 43–7 76 0-2
JMA IV 13 14 45 50.4–.10 24.19N 121.78E 45–1 2.2 ¶600586711
ISCJB IV 13 14 45 51.0–.35 24.18N–.02 121.80E–.02 47–5 2.2
TAP IV 13 14 45 51.3 24.20N 121.73E 42–0 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=139.8.
TAP C.
ISC IV 15 09 19 30.7–1.7 24.85N–.06 121.80E–.04 108–9 79 0-3
JMA IV 15 09 19 29.8–.20 24.76N 121.75E 111–2 2.9 ¶600588711
ISCJB IV 15 09 19 30.7–.64 24.84N–.03 121.82E–.02 107–4 2.9
TAP IV 15 09 19 30.9 24.87N 121.75E 108–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.2km az=158.2.
TAP B.
ISC IV 16 11 44 43.0–1.1 22.26N–.04 120.25E–.05 28–6 3.5b 75 0-48
IDC IV 16 11 44 38.5–1.9 22.45N 120.79E 0 3.6,3.4 ¶17201216
TAP IV 16 11 44 41.8 22.28N 120.19E 24–0 3.8L,3.4
JMA IV 16 11 44 42.6–.10 22.25N 120.27E 60–3 3.7,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=66.3km s-min=24.3km az=52.0.
TAP C.
JMA Error ellipse: s-maj=2.2km s-min=2.1km az=-1.0.
ISC IV 16 12 48 58.6–.83 24.43N–.02 121.78E–.02 9–5 110 0-3
NIED IV 16 12 48 00 24.40N 121.70E 8 3.7W ¶16443537
TAP IV 16 12 48 58.2 24.44N 121.74E 7–0 3.9L
JMA IV 16 12 48 58.2–.10 24.41N 121.67E 16–4 3.5
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s254.00000°,δ57.00000°,λ-35.00000°. NP2:ϕ_s6.00000°,δ61.00000°,λ-141.00000°. $M_0$4.02000×10^{14}
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISC IV 16 14 51 37.6–.94 23.48N–.02 121.59E–.02 32–7 105 0-3
JMA IV 16 14 51 36.6–.10 23.47N 121.54E 47–2 ¶601169112
ISCJB IV 16 14 51 37.4–.33 23.46N–.02 121.63E–.02 31–2
TAP IV 16 14 51 37.6 23.48N 121.56E 38–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=137.6.
TAP C.
ISC IV 16 16 18 39.0–.96 23.78N–.02 121.83E–.02 17–6 3.5b 147 0-83
BJI IV 16 16 18 37.8 23.87N 121.76E 7 3.8b,3.7L ¶17201243
JMA IV 16 16 18 38.0–.10 23.81N 121.86E 0 3.4,3.7L
ISCJB IV 16 16 18 39.3–.32 23.79N–.02 121.87E–.02 20–3 3.5b,3.3s
TAP IV 16 16 18 39.9 23.83N 121.78E 22–0 4.2L,3.3s
IDC IV 16 16 18 51.6–6.0 23.71N 121.68E 134–59 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=142.1.
TAP B.
IDC Error ellipse: s-maj=25.7km s-min=14.5km az=82.0.
TAP IV 16 21 54 42.5 24.42N 121.45E 7–0 1.7L
¶601169161
TAP C.
ISC IV 17 13 34 37.5–.92 24.44N–.02 120.95E–.02 7–8 101 0-3
TAP IV 17 13 34 36.0 24.43N 120.94E 5–0 3.5L ¶600590834
ISCJB IV 17 13 34 37.5–.30 24.44N–.02 120.95E–.02 6–2 3.5L
JMA IV 17 13 34 37.0–.50 24.45N 120.99E 1 3.5L
ISC Event type ke.
TAP C.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=40.9.

JMA Error ellipse: s-maj=2.2km s-min=4.0km az=-1.0.
TAP IV 17 16 05 18.1 24.37N 121.73E 10–0 1.6L
¶601169205
TAP C.
ISC IV 19 14 55 58.2–1.1 23.52N–.02 121.59E–.02 24–11 101 0-3
JMA IV 19 14 55 57.7–.10 23.52N 121.60E 27–3 3.1 ¶600592876
ISCJB IV 19 14 55 58.3–.32 23.53N–.02 121.61E–.02 25–3 3.1
TAP IV 19 14 55 58.6 23.54N 121.53E 29–0 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=138.7.
TAP B.
ISC IV 23 18 50 39.6–.00 23.99N–.02 121.63E–.02 33–2 100 0-3
JMA IV 23 18 50 37.8 23.92N 121.60E 36–1 2.6 ¶600597480
TAP IV 23 18 50 38.9 23.97N 121.58E 37–0 3.1L
ISCJB IV 23 18 50 39.1–.25 23.97N–.02 121.65E–.02 35–4 3.1L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC IV 24 13 43 00.6–.85 23.66N–.02 120.53E–.02 6–6 93 0-4
TAP IV 24 13 42 59.3 23.64N 120.56E 5–0 3.0L ¶600598193
JMA IV 24 13 42 59.1–.10 23.65N 120.54E 0 3.5
IASPE IV 24 13 43 00.4–.84 23.66N–.02 120.54E–.02 8–5 3.5
ISCJB IV 24 13 43 00.9–.24 23.65N–.01 120.54E–.02 8–2 3.5
ISC Event type ke.
TAP B.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke.
ISC IV 25 07 08 58.1–1.2 24.19N–.03 121.78E–.03 45–8 56 0-2
JMA IV 25 07 08 56.4 24.15N 121.73E 53–1 2.6 ¶600598817
ISCJB IV 25 07 08 57.6–.41 24.18N–.03 121.80E–.02 49–5 2.6
TAP IV 25 07 08 57.5 24.21N 121.75E 47–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=154.1.
TAP D.
ISC IV 27 11 40 44.4–.81 24.25N–.02 121.24E–.02 12–5 114 0-3
JMA IV 27 11 40 42.7–.20 24.29N 121.17E 3 3.0 ¶600600675
TAP IV 27 11 40 43.7 24.28N 121.21E 10–0 3.6L
IASPE IV 27 11 40 44.2–.84 24.25N–.02 121.25E–.02 11–6 3.6L
ISCJB IV 27 11 40 44.4–.23 24.27N–.01 121.24E–.01 6–2 3.6L
ISC Event type ke.
TAP B.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke.
ISC IV 27 23 50 22.7–.89 24.14N–.02 121.69E–.02 32–7 76 0-3
JMA IV 27 23 50 21.1–.10 24.09N 121.63E 38–1 3.0 ¶600601073
ISCJB IV 27 23 50 22.5–.26 24.13N–.02 121.71E–.02 34–6 3.0
TAP IV 27 23 50 22.3 24.15N 121.63E 38–0 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=149.0.
TAP B.
ISC IV 28 19 50 53.9–1.1 23.75N–.02 121.83E–.02 27–12 78 0-3
ISCJB IV 28 19 50 54.7–.39 23.76N–.02 121.85E–.02 33–2 ¶600601837
TAP IV 28 19 50 54.5 23.79N 121.81E 37–1 2.7L
JMA IV 28 19 50 54.2–.10 23.75N 121.82E 36–2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=139.0.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP IV 29 22 22 37.6 23.15N 120.82E 6–0 1.5L
¶601170114
TAP C.
ISC IV 30 08 35 38.8–.31 24.67N–.02 121.86E–.02 75–2 4.7b 522 0-167
NIED IV 30 08 35 00 24.70N 121.90E 98 5.1W ¶16485217
BKK IV 30 08 35 32.9–.60 25N–5.0 122E–7.0 10 6.0,5.1b
ISCJB IV 30 08 35 37.7–.11 24.67N–.01 121.85E–.01 81–1 4.6b,5.1b
TAP IV 30 08 35 38.4 24.65N 121.81E 75–0 5.8L,5.1b
MOS IV 30 08 35 38.3–1.1 24.61N 121.85E 91 5.4s,4.8b
NEIC IV 30 08 35 38.8–.32 24.62N 121.85E 79–3 5.1W,4.9b
JMA IV 30 08 35 38.0–.20 24.61N 121.80E 72–3 4.8,4.9b
IDC IV 30 08 35 38.3–.50 24.61N 121.85E 78–3 4.8s,4.8
BJI IV 30 08 35 39.1 24.80N 121.65E 70 4.9b,4.8b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ82.00000°,λ176.00000°. NP2:ϕ_s147.00000°,δ86.00000°,λ8.00000°. $M_0$4.65000×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=144.8.
TAP B.
MOS Error ellipse: s-maj=9.2km s-min=5.5km az=112.1.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.5km az=104.0. Felt [IV] at Taipei. Felt in much of Taiwan. Recorded [4 TAP] in Yilan; [3 TAP] in Hualien, Miaoli, Nantou and Taoyuan; [2 TAP] in Changhua, Chiayi, Hsinchu, Taitung and Yunlin; [1 TAP] in Penghu. Recorded [1 JMA] on Iriomote-jima and Yonaguni-jima, Ryukyu Islands. Moment Tensor Solution. s19 Moment tensor: Scale 10^{16}Nm; M_{rr}1.32 $M_{\theta\theta}$3.47 $M_{\phi\phi}$-4.80 $M_{r\theta}$-1.99 $M_{\theta\phi}$-2.27 $M_{\phi r}$-0.17 Best double couple: NP1:ϕ_s332.00000°,δ67.00000°,λ16.00000°. NP2:ϕ_s236.00000°,δ75.00000°,λ156.00000°. Principal axes: T 5.0200,Plg27.0000°,Azm192.0000° ; N 0.4200,Plg62.0000°,Azm27.0000°; P -5.4500,Plg6.0000°,Azm286.0000° $M_0$5.30000×10^{16}
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=10.5km s-min=10.0km az=41.0.
ISC IV 30 11 02 35.5–1.3 24.65N–.03 121.86E–.02 71–6 115 0-3
JMA IV 30 11 02 33.8–.20 24.62N 121.80E 76–2 3.1 ¶16491373
ISCJB IV 30 11 02 34.9–.39 24.66N–.02 121.86E–.02 73–3 3.1
TAP IV 30 11 02 34.9 24.68N 121.80E 75–0 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=151.4.
TAP B.
ISC V 01 03 45 14.4–.97 24.15N–.02 121.88E–.02 20–8 76 0-2
JMA V 01 03 45 14.4–.10 24.12N 121.79E 45–2 ¶600603757
ISCJB V 01 03 45 15.8–.32 24.17N–.02 121.85E–.02 39–7
TAP V 01 03 45 15.4 24.19N 121.79E 43–0 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=136.3.
TAP C.
TAP V 02 05 48 34.6 24.71N 121.78E 68–1 2.6L
¶600604550
TAP B.
ISC V 03 00 26 45.6–1.4 23.03N–.04 121.69E–.05 15–12 35 0-3
ISCJB V 03 00 26 45.9–.77 23.03N–.05 121.71E–.04 21–7 ¶600605316
JMA V 03 00 26 45.7–.10 23.23N 121.36E 65 3.0
TAP V 03 00 26 47.4 23.07N 121.57E 25–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.1km az=147.5.
JMA Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
TAP D.
TAP V 03 00 26 51.5 24.38N 121.05E 7–1 2.9L
¶601170329
TAP C.
ISC V 03 15 52 34.2–.50 23.92N–.02 121.78E–.02 41–4 4.9b,3.8s 472 0-125
NIED V 03 15 52 00 23.90N 121.70E 47 4.6W,3.8s ¶16489813
BKK V 03 15 52 01.4–2.0 26N–19 125E–19 10 6.7,5.0
MOS V 03 15 52 31.2–1.2 23.98N 121.86E 33 5.2b,5.0
BJI V 03 15 52 33.3 24.05N 121.58E 47 4.9L,4.8b
JMA V 03 15 52 33.2–.10 23.88N 121.69E 39–2 4.7,4.8b

NEIC V 03 15 52 34.3–.43 23.88N 121.76E 43–3 5.0b,4.7W
TAP V 03 15 52 34.4 23.93N 121.71E 41–0 5.2L,4.7W
ISCJB V 03 15 52 34.1–.14 23.92N–.01 121.77E–.01 53–1 4.8b,3.8s
IDC V 03 15 52 36.5–2.7 23.99N 121.89E 65–25 4.6,4.4
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s56.00000°,δ50.00000°,λ-155.00000°. NP2:ϕ_s309.00000°,δ71.00000°,λ-43.00000°. M_o1.04000×10^{16}
MOS Error ellipse: s-maj=8.2km s-min=5.1km az=114.5.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=137.0. Felt [II] at Hsinchu and Taipei. Also felt at Taichung, Taoyuan, Xindian, Yilan, Yungho and Zhunan. Recorded [4 TAP] in Hualien and Nantou; [3 TAP] in Taichung and Yilan; [2 TAP] in Changhua, Hsinchu, Miaoli, Taitung, Taoyuan and Yunlin; [1 TAP] in Chiayi and Penghu. Moment Tensor Solution. s20 Moment tensor: Scale 10^{16}Nm; M_{rr}0.26 $M_{\theta\theta}$0.07 $M_{\phi\phi}$-0.34 $M_{r\theta}$-0.41 $M_{\theta\phi}$-0.48 $M_{\phi r}$-1.12 Best double couple: NP1:ϕ_s69.00000°,δ15.00000°,λ141.00000°. NP2:ϕ_s198.00000°,δ81.00000°,λ78.00000°. Principal axes: T 1.1200,Plg53.0000°,Azm94.0000° ; N 0.3300,Plg12.0000°,Azm200.0000°; P -1.4600,Plg35.0000°,Azm298.0000° M_o1.30000×10^{16}
TAP B.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=146.6.
IDC Error ellipse: s-maj=14.0km s-min=10.6km az=71.0.
ISC V 04 10 13 07.6–1.0 24.08N–.02 121.87E–.02 7–9 116 0-2
JMA V 04 10 13 06.2–.10 24.06N 121.83E 0 3.1 **¶600606457**
TAP V 04 10 13 07.6 24.12N 121.80E 8–0 3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC V 04 12 46 52.4–.96 23.87N–.02 121.78E–.02 31–8 3.4b 136 0-83
JMA V 04 12 46 52.6 23.90N 121.69E 35–1 3.4 **¶17202755**
ISCJB V 04 12 46 53.4–.26 23.91N–.01 121.77E–.01 32–2 3.5b
TAP V 04 12 46 53.6 23.95N 121.68E 40–0 3.9L
IDC V 04 12 46 54.5–5.4 23.89N 121.87E 53–53 3.9,3.9s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=142.2.
TAP B.
IDC Error ellipse: s-maj=33.7km s-min=17.8km az=64.0.
ISC V 05 13 02 53.9–1.2 24.26N–.03 121.81E–.03 51–7 92 0-3
JMA V 05 13 02 51.8–.10 24.23N 121.70E 63–1 2.6 **¶600607283**
TAP V 05 13 02 52.8 24.28N 121.72E 57–0 3.0L
ISCJB V 05 13 02 53.3–.34 24.27N–.02 121.82E–.02 55–5 3.0L
ISC Event type ke.
TAP C.
ISCJB Event type ke.
TAP V 06 04 05 27.4 24.25N 121.09E 13–1 2.8L
¶601171121
TAP B.
TAP V 06 04 05 32.0 24.24N 121.15E 15–0 2.8L
¶601171124
TAP A.
ISC V 06 11 03 04.0–1.2 24.43N–.03 121.76E–.03 56–6 85 0-3
JMA V 06 11 03 02.0–.20 24.38N 121.68E 65–3 2.5 **¶600607958**
ISCJB V 06 11 03 03.5–.43 24.44N–.02 121.77E–.02 59–4 2.5
TAP V 06 11 03 03.3 24.45N 121.70E 61–1 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.5km az=144.5.
TAP A.
ISC V 06 21 31 51.6–.65 23.17N–.02 121.54E–.02 25–4 4.3b,3.7s 239 0-84
NIED V 06 21 31 00 23.20N 121.60E 29 4.4W,3.7s **¶16498616**
BJI V 06 21 31 47.5 23.24N 121.40E 6 4.4b,4.4L
JMA V 06 21 31 48.2–.20 23.19N 121.60E 2–2 4.2,4.4L
ISCJB V 06 21 31 49.8–.26 23.16N–.01 121.54E–.01 24–2 4.3b,3.7s
NEIC V 06 21 31 49.3–.84 23.21N 121.54E 9–5 4.7L,4.4b
TAP V 06 21 31 50.7 23.23N 121.43E 23–0 4.7L,4.4b
IDC V 06 21 31 54.5–4.3 23.09N 121.53E 54–41 4.1,4.0
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s320.00000°,δ45.00000°,λ33.00000°. NP2:ϕ_s205.00000°,δ67.00000°,λ130.00000°. M_o4.47000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.0km az=149.5.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.5km az=102.0. Recorded [4 TAP] in Taitung and [3 TAP] in Hualien.
TAP B.
IDC Error ellipse: s-maj=18.5km s-min=10.1km az=73.0.
TAP V 07 14 32 38.6 23.81N 121.57E 7–0 2.8L
¶600609058
TAP C.
ISC V 10 03 14 56.9–1.4 24.67N–.04 121.84E–.03 76–8 75 0-2
ISCJB V 10 03 14 56.9–.53 24.66N–.03 121.85E–.03 74–4 **¶600610951**
TAP V 10 03 14 56.8 24.67N 121.79E 74–0 3.4L
JMA V 10 03 14 56.2–.10 24.62N 121.80E 75–2 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.4km az=150.9.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 11 14 24 23.7–1.0 24.26N–.02 121.93E–.02 9–8 83 0-3
ISCJB V 11 14 24 23.3–.44 24.25N–.02 121.96E–.02 3–3 **¶600611836**
TAP V 11 14 24 23.5 24.28N 121.87E 7–0 3.1L
JMA V 11 14 24 23.4–.10 24.23N 121.91E 5–3 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=142.9.
TAP D.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP V 11 21 15 23.6 24.85N 121.99E 9–0 1.9L
¶601172741
TAP C.
TAP V 11 21 15 27.9 24.79N 121.94E 14–0 1.8L
¶601172744
TAP C.
TAP V 13 09 20 08.0 24.83N 121.86E 98–0 3.5L
¶601173049
TAP B.
ISC V 13 10 56 44.1–1.2 22.05N–.04 120.37E–.04 37–1 3.6b,3.2s 103 0-85
IDC V 13 10 56 38.9–1.3 22.00N 120.44E 0 3.9,3.7b **¶17203544**
ISCJB V 13 10 56 43.7–.50 22.09N–.02 120.43E–.03 51–3 3.6b,3.3s
TAP V 13 10 56 43.2 22.07N 120.42E 46–0 3.9L,3.3s
JMA V 13 10 56 43.4–.20 21.98N 120.53E 51–3 3.7,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=74.7km s-min=25.8km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=148.1.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=3.1km az=-1.0.
ISC V 14 09 33 43.7–.92 23.82N–.02 121.46E–.02 20–1 112 0-3
JMA V 14 09 33 42.5–.10 23.79N 121.54E 14–3 2.7 **¶601173850**
ISCJB V 14 09 33 43.6–.23 23.81N–.01 121.51E–.02 21–2 2.7
TAP V 14 09 33 43.4 23.84N 121.43E 20–0 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=39.5.
TAP B.
ISC V 15 20 02 14.6–.92 24.48N–.02 122.00E–.02 12–7 64 0-2
ISCJB V 15 20 02 14.5–.40 24.48N–.02 122.01E–.02 3–3 **¶600615190**
JMA V 15 20 02 14.8–.10 24.45N 121.95E 16 2.2
TAP V 15 20 02 16.0 24.50N 121.86E 7–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=161.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC V 15 23 56 32.4–1.1 23.68N–.03 121.90E–.03 17–8 60 0-2
JMA V 15 23 56 31.6–.10 23.68N 121.92E 10 3.0 **¶600615320**
ISCJB V 15 23 56 32.8–.57 23.68N–.02 121.94E–.03 17–8 3.0
TAP V 15 23 56 33.4 23.72N 121.83E 13–1 2.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=2.9km az=35.1.
TAP D.
TAP V 16 19 31 19.8 23.13N 121.54E 40–0 2.6L
¶601174446
TAP D.
ISC V 18 00 02 51.3–.91 24.43N–.02 121.94E–.02 16–7 62 0-2
ISCJB V 18 00 02 51.5–.40 24.44N–.02 121.97E–.02 9–2 **¶600616840**
TAP V 18 00 02 51.8 24.44N 121.90E 20–0 3.1L
JMA V 18 00 02 51.0–.10 24.37N 121.83E 40–2 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=138.3.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 18 12 19 11.4–.87 24.48N–.02 121.97E–.02 18–2 83 0-2
ISCJB V 18 12 19 10.8–.36 24.48N–.02 122.02E–.02 2–3 **¶600617190**
TAP V 18 12 19 11.6 24.49N 121.94E 13–0 3.3L
JMA V 18 12 19 11.4–.10 24.45N 121.96E 13 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=156.1.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 19 14 22 13.2–.86 24.36N–.02 121.83E–.02 11–5 56 0-3
ISCJB V 19 14 22 13.1–.42 24.35N–.02 121.85E–.02 5–4 **¶600618075**
JMA V 19 14 22 13.3–.10 24.36N 121.79E 8
TAP V 19 14 22 13.2 24.37N 121.81E 9–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=34.0.
TAP C.
ISC V 20 11 00 39.4–.88 24.84N–.02 121.98E–.02 13–6 58 0-2
ISCJB V 20 11 00 39.3–.44 24.82N–.02 122.02E–.02 5–4 **¶600618926**
TAP V 20 11 00 40.0 24.81N 121.99E 3–1 3.0L
JMA V 20 11 00 39.8–.20 24.82N 121.88E 36 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=144.7.
TAP D.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 20 22 32 18.5–1.3 24.36N–.03 121.69E–.03 48–7 75 0-2
JMA V 20 22 32 16.3–.20 24.30N 121.58E 60–2 **¶600619437**
ISCJB V 20 22 32 17.9–.44 24.37N–.02 121.70E–.03 52–4
TAP V 20 22 32 18.1 24.36N 121.67E 48–0 3.0L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=31.6.
TAP C.
ISC V 21 15 27 08.8–.85 23.45N–.02 121.38E–.02 10–5 91 0-3
JMA V 21 15 27 07.4–.10 23.45N 121.41E 0 2.8 **¶16550618**
ISCJB V 21 15 27 08.4–.41 23.43N–.02 121.42E–.02 3–3 2.8
TAP V 21 15 27 09.0 23.46N 121.34E 9–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=33.3.
TAP B.
ISC V 22 01 34 14.4–.45 24.12N–.02 121.77E–.02 16–2 4.8b,4.7s 502 0-168
NIED V 22 01 34 00 24.10N 121.70E 23 5.0W,4.7s **¶16532363**
IDC V 22 01 34 11.1–.55 24.14N 121.94E 0 4.5,4.5s
TAP V 22 01 34 11.9 24.12N 121.76E 6–0 5.0L,4.5s
JMA V 22 01 34 11.6–.20 24.11N 121.72E 0 5.3,4.5s
GCMT V 22 01 34 12.3–.20 24.12N 121.65E 13–1 5.0W,4.5s
NEIC V 22 01 34 12.3–.73 24.09N 121.76E 6–4 5.0W,5.0b
BJI V 22 01 34 13.3 24.15N 121.60E 10 5.5L,5.3s
ISCJB V 22 01 34 13.3–.24 24.14N–.01 121.82E–.01 19–1 4.7s,4.7b
MOS V 22 01 34 15.1–1.4 24.15N 121.92E 35 5.0b,4.7s
BKK V 22 01 34 17.9–.70 25N–5.0 122E–8.0 10 5.2b,5.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s212.00000°,δ81.00000°,λ8.00000°. NP2:ϕ_s121.00000°,δ82.00000°,λ171.00000°. M_o3.30000×10^{16}
TAP C.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c56; s94,c157;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.73±.15 $M_{\theta\theta}$-3.88±.12; $M_{\phi\phi}$2.15±.11; $M_{r\theta}$2.65±.34; $M_{\theta\phi}$-1.75±.09; $M_{\phi r}$0.90±.30; Best double couple: NP1:ϕ_s53.00000°,δ72.00000°,λ61.00000°. NP2:ϕ_s293.00000°,δ34.00000°,λ145.00000°. Principal axes: T 2.9120,Plg54.0000°,Azm287.0000°; N 2.5270,Plg27.0000°,Azm63.0000° ; P -5.4390,Plg21.0000°,Azm164.0000° M_o4.17500×10^{16}
NEIC Event type fe. Felt [III] at Hualien and [II] at Taipei. Also felt at Puli. Recorded [5 TAP] in Hualien; [4 TAP] in Yilan; [2 TAP] in Nantou and Taichung; [1 TAP] in Taoyuan. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}2.07 $M_{\theta\theta}$-3.60 $M_{\phi\phi}$1.53 $M_{r\theta}$3.16 $M_{\theta\phi}$-1.14 $M_{\phi r}$-0.37 Best double couple: NP1:ϕ_s226.00000°,δ29.00000°,λ41.00000°. NP2: ϕ_s99.00000°,δ71.00000°,λ113.00000°. Principal axes: T 3.7800,Plg57.0000°,Azm40.0000° ; N 1.3500,Plg22.0000°,Azm271.0000°; P -5.1300,Plg23.0000°,Azm172.0000° M_o4.60000×10^{16}
ISCJB Event type fe.
TAP V 22 01 38 25.1 24.15N 121.67E 12–0 2.3L
¶601174823
TAP C.
TAP V 22 01 38 29.5 24.13N 121.73E 8–2 2.8L
¶601174826
TAP C.
TAP V 22 03 23 45.6 24.58N 121.66E 66–1 2.5L
¶601174889
TAP B.
TAP V 22 03 23 53.0 24.20N 121.53E 12–1 2.0L
¶601174892
TAP B.
ISC V 22 08 55 33.3–.92 24.13N–.02 121.77E–.02 9–7 87 0-2
TAP V 22 08 55 33.0 24.14N 121.74E 10–0 3.5L **¶16550620**
JMA V 22 08 55 33.0–.20 24.12N 121.68E 3–2 2.7
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC V 22 21 07 15.7–.64 23.88N–.01 121.07E–.02 18–2 4.4b 239 0-83
NIED V 22 21 07 00 23.90N 121.10E 20 4.5W **¶16550619**
BJI V 22 21 07 13.4 24.05N 120.95E 10 4.6b,4.4b
JMA V 22 21 07 14.5–.20 23.91N 121.06E 0 4.3,4.4b
TAP V 22 21 07 16.0 23.88N 121.06E 19–0 4.7L,4.4b
ISCJB V 22 21 07 16.6–.15 23.89N–.01 121.07E–.01 28–1 4.3b,4.1s
NEIC V 22 21 07 16.0 23.88N 121.06E 19 4.7L,4.5b
IDC V 22 21 07 18.7–2.8 23.77N 121.22E 51–25 4.3,4.1
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s225.00000°,δ27.00000°,λ72.00000°. NP2:ϕ_s65.00000°,δ65.00000°,λ99.00000°. M_o5.79000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=43.3.
NEIC Event type fe. Recorded [3 TAP] in Hualien; [2 TAP] in Changhua, Hualien, Taichung and Yunlin; [1 TAP] in Chiayi, Miaoli, Yilan and Yunlin. After TAP.
IDC Error ellipse: s-maj=18.2km s-min=11.8km az=67.0.
TAP V 22 21 08 14.5 23.89N 121.06E 19–0 4.4L
¶601174968
TAP B.
ISC V 23 18 30 22.1–.99 24.08N–.02 121.75E–.02 7–8 83 0-2
JMA V 23 18 30 22.0–.20 24.11N 121.71E 0 **¶600621676**
TAP V 23 18 30 22.1 24.11N 121.71E 6–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP C.
ISC V 23 19 51 47.5–.72 24.73N–.03 121.92E–.02 87–4 3.5b 145 0-96
ISCJB V 23 19 51 46.9–.25 24.77N–.02 121.92E–.02 92–2 3.4b **¶16550650**
JMA V 23 19 51 46.7–.10 24.68N 121.86E 91–2 3.6
TAP V 23 19 51 47.6 24.73N 121.89E 87–0 4.3L

IDC V 23 19 52 08.5–13 25.43N 121.76E 255–92 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.2km az=153.2.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=103.9km s-min=26.1km az=178.0.
ISC V 24 04 00 33.3–.94 23.28N–.02 121.46E–.02 15–7 97 0-3
JMA V 24 04 00 32.5–.10 23.29N 121.48E 13–3 3.5 **¶600621919**
ISCJB V 24 04 00 33.5–.34 23.26N–.02 121.49E–.02 18–4 3.5
TAP V 24 04 00 34.4 23.31N 121.37E 15–0 3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=43.2.
TAP B.
ISC V 24 06 12 11.9–.87 24.47N–.02 121.99E–.02 15–6 98 0-3
ISCJB V 24 06 12 11.3–.38 24.48N–.02 122.04E–.02 6–3 **¶601175069**
JMA V 24 06 12 11.7 24.44N 121.96E 13 3.5
TAP V 24 06 12 12.2 24.48N 121.92E 19–0 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=165.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC V 24 18 32 04.8–.47 23.44N–.02 121.62E–.02 35–1 4.0b 212 0-125
NIED V 24 18 32 00 23.40N 121.70E 38 4.1W **¶16539597**
JMA V 24 18 32 03.3–.20 23.41N 121.65E 32–4 4.4
BJI V 24 18 32 03.1 23.54N 121.47E 10 4.5b,4.3b
ISCJB V 24 18 32 04.4–.19 23.42N–.02 121.63E–.01 48–2 4.2b,3.5s
NEIC V 24 18 32 04.5–.74 23.44N 121.62E 39–7 4.4b,3.5s
TAP V 24 18 32 05.1 23.45N 121.53E 37–0 4.7L,3.5s
IDC V 24 18 32 07.8–6.0 23.35N 121.52E 65–56 4.0,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s231.00000°,δ33.00000°,λ130.00000°. NP2:ϕ_s6.00000°,δ65.00000°,λ67.00000°. $M_0$1.74000×10^{15}
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=152.2.
NEIC Event type fe. Error ellipse: s-maj=10.3km s-min=7.5km az=127.0. Recorded [3 TAP] in Taitung, [2 TAP] in Hualien and [1 TAP] in Changhua, Chiayi, Miaoli, Nantou and Yunlin.
TAP B.
IDC Error ellipse: s-maj=32.3km s-min=12.4km az=67.0.
TAP V 25 05 42 25.9 24.51N 121.85E 15–0 1.6L
¶601175184
TAP D.
ISC V 25 12 48 23.8–.89 23.66N–.02 121.65E–.02 32–6 116 0-4
JMA V 25 12 48 22.9–.10 23.66N 121.61E 34–2 3.3 **¶600622958**
ISCJB V 25 12 48 23.8–.28 23.67N–.02 121.66E–.02 28–2 3.3
TAP V 25 12 48 24.0 23.68N 121.59E 35–0 3.8L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=144.9.
TAP B.
TAP V 26 16 14 10.0 24.19N 121.84E 15–1 1.5L
¶601175356
TAP D.
ISC V 26 23 46 18.8–.80 24.27N–.02 121.79E–.02 32–5 3.5b 114 0-83
IDC V 26 23 46 13.0–1.1 24.17N 121.75E 0 3.7,3.6 **¶16637398**
JMA V 26 23 46 18.2–.10 24.22N 121.72E 37–2 3.1,3.6
ISCJB V 26 23 46 19.2–.29 24.29N–.02 121.84E–.02 27–2 3.4b,2.8s
TAP V 26 23 46 19.1 24.29N 121.75E 32–0 4.1L,2.8s
ISC Event type ke.
IDC Error ellipse: s-maj=41.8km s-min=23.3km az=64.0.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=38.5.
TAP B.
ISC V 27 16 02 42.7–1.2 24.50N–.03 121.79E–.02 67–5 147 0-8
ISCJB V 27 16 02 41.8–.29 24.52N–.02 121.81E–.02 73–3 **¶600624545**
JMA V 27 16 02 41.6–.10 24.44N 121.75E 68–2 3.4
TAP V 27 16 02 42.3 24.49N 121.75E 67–0 4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.0km az=145.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
TAP V 30 11 17 22.0 23.49N 120.60E 4–1 0.9L
¶601175592
TAP D.
ISC VI 02 18 02 42.5–.95 24.82N–.03 121.95E–.02 13–7 65 0-2
TAP VI 02 18 02 42.4 24.82N 121.93E 14–0 3.1L **¶600628923**
JMA VI 02 18 02 42.7–.10 24.82N 121.86E 38 2.3
ISC Event type ke.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 02 18 08 53.9–.82 23.61N–.01 120.66E–.02 17–6 129 0-9
NIED VI 02 18 08 00 23.60N 120.70E 17 3.7W **¶16555887**
BJI VI 02 18 08 51.4 23.63N 120.67E 6 3.6L,3.3
JMA VI 02 18 08 52.3–.10 23.62N 120.68E 0 3.6,3.3
IASPE VI 02 18 08 54.0–.83 23.61N–.02 120.69E–.02 17–6 3.6,3.3
TAP VI 02 18 08 53.7 23.59N 120.71E 16–0 4.1L,3.3
ISCJB VI 02 18 08 54.7–.18 23.59N–.01 120.70E–.02 19–2 4.1L,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s356.00000°,δ57.00000°,λ-6.00000°. NP2:ϕ_s89.00000°,δ85.00000°,λ-147.00000°. $M_0$3.96000×10^{14}
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
TAP B.
ISCJB Event type ke.
TAP VI 02 18 29 00.7 22.99N 120.93E 11–1 1.6L
¶601175788
TAP C.
TAP VI 02 18 29 05.9 22.97N 120.93E 3–2 1.8L
¶601175791
TAP C.
ISC VI 03 14 10 58.2–1.0 23.77N–.02 121.67E–.02 34–2 111 0-3
ISCJB VI 03 14 10 57.9–.23 23.77N–.02 121.70E–.02 36–6 **¶600629794**
JMA VI 03 14 10 57.0–.10 23.75N 121.70E 29–3 2.6
TAP VI 03 14 10 58.0 23.79N 121.62E 38–0 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=141.9.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP C.
ISC VI 04 02 18 33.4–.99 24.40N–.02 121.74E–.02 15–8 91 0-3
JMA VI 04 02 18 33.9–.10 24.36N 121.66E 35–2 2.6 **¶600630754**
ISCJB VI 04 02 18 34.8–.23 24.38N–.02 121.75E–.02 28–2 2.6
TAP VI 04 02 18 34.2 24.38N 121.70E 29–0 3.4L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=41.1.
TAP C.
TAP VI 05 04 36 47.2 23.53N 121.77E 14–0 2.6L
¶601175961
TAP D.
ISC VI 05 06 26 16.1–.90 23.73N–.02 121.63E–.03 34–6 89 0-3
JMA VI 05 06 26 14.7 23.71N 121.62E 38–2 2.9 **¶600631819**
TAP VI 05 06 26 15.3 23.75N 121.65E 39–1 3.1L
ISCJB VI 05 06 26 16.0–.28 23.74N–.02 121.66E–.02 35–5 3.1L
ISC Event type ke.
TAP D.
ISCJB Event type ke.
ISC VI 05 19 51 05.0–1.0 23.53N–.02 121.76E–.02 18–8 85 0-3
JMA VI 05 19 51 06.3–.20 23.52N 121.59E 34–4 2.8 **¶600632374**
ISCJB VI 05 19 51 07.6–.39 23.54N–.02 121.64E–.02 20–5 2.8
TAP VI 05 19 51 07.8 23.56N 121.57E 18–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.4km az=33.5.
TAP D.
ISC VI 06 02 36 41.8–.98 23.34N–.02 121.54E–.03 27–8 84 0-3
ISCJB VI 06 02 36 41.8–.33 23.35N–.02 121.58E–.02 27–3 **¶600632692**
JMA VI 06 02 36 41.0–.10 23.35N 121.53E 35–2 3.1
TAP VI 06 02 36 42.8 23.37N 121.47E 28–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=154.0.
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
TAP B.
ISC VI 06 16 51 33.8–.90 24.45N–.02 121.98E–.02 12–7 60 0-2
ISCJB VI 06 16 51 33.7–.49 24.46N–.02 122.00E–.02 6–4 **¶600633237**
JMA VI 06 16 51 33.8–.10 24.44N 121.96E 7 2.3
TAP VI 06 16 51 34.3 24.47N 121.91E 8–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=143.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP D.
ISC VI 09 04 38 20.8–.92 24.47N–.02 121.98E–.02 18–3 96 0-2
ISCJB VI 09 04 38 19.8–.39 24.47N–.02 122.03E–.02 5–3 **¶601176190**
TAP VI 09 04 38 20.7 24.47N 121.94E 20–0 3.9L
JMA VI 09 04 38 20.4–.10 24.41N 121.94E 21 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=164.1.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP VI 09 04 38 20.3 24.63N 121.50E 28–0 2.2L
¶16580437
TAP C.
ISC VI 10 01 25 22.3–.34 23.57N–.02 121.69E–.02 35–1 4.7b,4.0s 458 0-168
NIED VI 10 01 25 00 23.60N 121.60E 35 4.7W,4.0s **¶16581508**
JMA VI 10 01 25 20.8–.10 23.58N 121.58E 39–3 4.7,4.0s
MOS VI 10 01 25 20.1–.89 23.57N 121.71E 35 4.9b,4.0s
ISCJB VI 10 01 25 21.7–.16 23.58N–.01 121.67E–.01 46–1 4.7b,4.0s
NEIC VI 10 01 25 21.5–.58 23.55N 121.61E 31–4 5.2L,4.8b
TAP VI 10 01 25 22.1 23.59N 121.59E 35–0 5.1L,4.8b
BJI VI 10 01 25 22.2 23.72N 121.51E 27 4.7b,4.7L
IDC VI 10 01 25 23.2–2.7 23.63N 121.76E 49–25 4.4,4.3
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s9.00000°,δ47.00000°,λ63.00000°. NP2:ϕ_s225.00000°,δ49.00000°,λ116.00000°. $M_0$1.21000×10^{16}
JMA Error ellipse: s-maj=1.1km s-min=3.1km az=-1.0.
MOS Error ellipse: s-maj=8.9km s-min=5.2km az=119.2.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=150.2.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=122.0. Felt at Changhua, Hualien, Taichung and Taipei. Recorded [4 TAP] in Hualien; [3 TAP] in Taitung; [2 TAP] in Changhua, Chiayi, Nantou, Yilan and Yunlin; [1 TAP] in Miaoli. Moment Tensor Solution. s19 Moment tensor: Scale 10^{15}Nm; M_{rr}4.17 $M_{\theta\theta}$-1.29 $M_{\phi\phi}$-2.89 $M_{r\theta}$-0.85 $M_{\theta\phi}$-3.86 $M_{\phi r}$4.45 Best double couple: NP1:ϕ_s9.00000°,δ68.00000°,λ58.00000°. NP2:ϕ_s248.00000°,δ39.00000°,λ143.00000°. Principal axes: T 7.1100,Plg55.0000°,Azm238.0000°; N -0.2000,Plg30.0000°,Azm23.0000°; P -6.9000,Plg17.0000°,Azm122.0000° $M_0$7.00000×10^{15}
TAP B.
IDC Error ellipse: s-maj=13.4km s-min=10.8km az=55.0.
TAP VI 10 06 00 36.0 23.06N 121.40E 22–0 3.5L
¶16581514
TAP B.
ISC VI 11 11 05 18.6–1.6 24.79N–.05 121.98E–.03 93–9 68 0-2
ISCJB VI 11 11 05 18.2–.64 24.80N–.04 121.98E–.02 94–5 **¶600637409**
TAP VI 11 11 05 18.5 24.78N 121.95E 93–0 3.1L
JMA VI 11 11 05 18.0–.20 24.75N 121.94E 94–2 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.4km az=168.1.
TAP C.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP VI 11 22 38 58.7 24.23N 121.78E 16–1 1.8L
¶601176368
TAP D.
TAP VI 11 22 39 05.4 24.18N 121.71E 6–0 2.6L
¶601176371
TAP C.
ISC VI 12 10 04 44.7–.99 23.92N–.02 121.69E–.02 6–8 96 0-2
JMA VI 12 10 04 43.9–.10 23.95N 121.64E 0 2.9 **¶16591889**
TAP VI 12 10 04 45.1 23.96N 121.61E 9–0 3.7L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=3.0km az=-1.0.
TAP B.
ISC VI 12 22 43 14.3–.87 24.54N–.02 121.77E–.02 35–5 84 0-2
JMA VI 12 22 43 12.4 24.48N 121.70E 48–1 2.5 **¶600638616**
TAP VI 12 22 43 13.1 24.52N 121.75E 38–0 3.4L
ISCJB VI 12 22 43 14.0–.28 24.54N–.02 121.79E–.02 36–4 3.4L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC VI 13 17 30 22.6–1.1 24.35N–.02 121.99E–.02 15–9 97 0-2
TAP VI 13 17 30 23.8 24.39N 121.92E 24–0 3.4L **¶600639441**
JMA VI 13 17 30 23.2–.20 24.32N 121.86E 44–3 2.4
ISCJB VI 13 17 30 24.0–.33 24.38N–.02 122.00E–.02 17–4 2.4
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC VI 14 21 17 06.0–.65 24.03N–.02 121.58E–.02 22–4 3.8b 143 0-69
JMA VI 14 21 17 03.9–.10 23.99N 121.51E 16–2 3.8 **¶16598341**
IASPE VI 14 21 17 05.7–.95 24.04N–.02 121.57E–.03 18–3 3.8b
TAP VI 14 21 17 05.3 24.04N 121.52E 21–0 4.2L
ISCJB VI 14 21 17 05.6–.22 24.03N–.01 121.60E–.02 21–2 3.7b,2.7s
BJI VI 14 21 17 05.0 24.08N 121.49E 15 3.9b,3.6L
IDC VI 14 21 17 18.3–6.4 24.04N 121.71E 152–64 3.8,3.5
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
IASPE Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=114.2. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
TAP B.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=136.4.
IDC Error ellipse: s-maj=27.1km s-min=14.3km az=73.0.
ISC VI 15 12 14 50.7–1.0 23.10N–.03 121.62E–.03 25–8 66 0-3
ISCJB VI 15 12 14 50.0–.52 23.09N–.02 121.68E–.03 18–7 **¶600640969**
JMA VI 15 12 14 50.5–.10 23.10N 121.59E 35–2 2.8
TAP VI 15 12 14 51.1 23.11N 121.57E 18–1 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.2km az=177.3.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP D.
ISC VI 15 17 58 32.8–1.2 24.03N–.03 121.87E–.02 44–8 106 0-3
JMA VI 15 17 58 31.0–.10 23.99N 121.81E 56–1 2.7 **¶600641229**
ISCJB VI 15 17 58 32.2–.27 24.02N–.02 121.89E–.02 47–5 2.7
TAP VI 15 17 58 32.4 24.05N 121.84E 45–0 3.1L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=142.5.
TAP D.
ISC VI 16 01 21 43.2–1.2 23.83N–.02 121.88E–.02 7–9 95 0-3
JMA VI 16 01 21 41.8–.20 23.83N 121.95E 0 3.0 **¶600641467**
ISCJB VI 16 01 21 43.2–.51 23.82N–.02 121.91E–.02 4–3 3.0
TAP VI 16 01 21 44.0 23.85N 121.81E 7–0 3.6L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=139.4.

TAP D.
ISC VI 16 03 31 20.7–1.2 23.83N–.02 121.86E–.03 9–10 81 0-3
JMA VI 16 03 31 19.8–.10 23.83N 121.87E 0 2.8 **¶600641557**
ISCJB VI 16 03 31 21.1–.55 23.82N–.02 121.89E–.02 11–3 2.8
TAP VI 16 03 31 21.2 23.84N 121.85E 15–0 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=43.4.
TAP C.
ISC VI 16 04 03 41.0–.98 24.24N–.02 121.60E–.02 33–3 108 0-3
JMA VI 16 04 03 39.0–.10 24.17N 121.53E 46–1 3.1 **¶16631412**
TAP VI 16 04 03 40.0 24.24N 121.55E 44–0 3.7L
ISCJB VI 16 04 03 40.7–.25 24.25N–.02 121.63E–.02 41–5 3.7L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC VI 16 08 09 57.6–.93 24.37N–.02 121.96E–.02 16–7 101 0-3
ISCJB VI 16 08 09 58.0–.32 24.37N–.02 121.99E–.02 17–4 **¶600641730**
TAP VI 16 08 09 57.8 24.39N 121.92E 23–0 3.8L
JMA VI 16 08 09 57.2–.20 24.32N 121.87E 42–3 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=143.2.
TAP B.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC VI 16 11 04 21.3–.88 24.46N–.02 121.96E–.02 17–6 64 0-2
JMA VI 16 11 04 20.8–.10 24.39N 121.86E 36–4 2.4 **¶600641821**
ISCJB VI 16 11 04 21.5–.33 24.46N–.02 121.98E–.02 16–5 2.4
TAP VI 16 11 04 21.2 24.45N 121.90E 21–0 3.2L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=137.6.
TAP B.
ISC VI 16 15 32 54.9–.77 24.82N–.02 121.84E–.02 16–4 3.3b 114 0-50
NIED VI 16 15 32 00 24.80N 121.70E 8 3.7W **¶16621488**
ISCJB VI 16 15 32 54.7–.33 24.81N–.02 121.90E–.02 1–3 3.3b
JMA VI 16 15 32 54.7–.10 24.81N 121.71E 34–3 3.6
TAP VI 16 15 32 55.1 24.80N 121.81E 12–0 4.1L
IDC VI 16 15 33 01.8–1.5 23.86N 122.63E 0 3.5,3.3
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s199.00000°,δ46.00000°,λ-124.00000°. NP2:ϕ_s63.00000°,δ54.00000°,λ-60.00000°. $M_0$3.95000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=152.6.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
IDC Error ellipse: s-maj=74.5km s-min=25.0km az=67.0.
ISC VI 17 01 55 45.1–1.4 24.81N–.04 121.92E–.03 87–7 79 0-3
ISCJB VI 17 01 55 44.6–.57 24.82N–.03 121.92E–.02 89–4 **¶600642247**
TAP VI 17 01 55 44.4 24.83N 121.89E 92–0 3.5L
JMA VI 17 01 55 44.1–.10 24.73N 121.87E 88–2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.1km az=155.2.
TAP B.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC VI 17 13 14 37.4–.88 24.15N–.02 121.72E–.03 12–6 81 0-2
JMA VI 17 13 14 36.8–.10 24.13N 121.67E 10–1 2.7 **¶600642618**
TAP VI 17 13 14 37.5 24.16N 121.71E 10–0 3.3L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP B.
ISC VI 19 10 18 55.3–.46 24.71N–.03 121.87E–.02 80–3 4.2b 255 0-146
NIED VI 19 10 18 00 24.70N 121.80E 59 4.3W **¶16638738**
IDC VI 19 10 18 54.8–.76 24.69N 121.96E 89–6 3.8,3.6
JMA VI 19 10 18 54.2–.20 24.66N 121.83E 82–2 4.1,3.6
ISCJB VI 19 10 18 54.2–.14 24.73N–.02 121.88E–.01 86–1 4.1b,3.6
NEIC VI 19 10 18 55.1–.32 24.71N 121.84E 78–3 4.5b,3.6
BJI VI 19 10 18 55.5 24.78N 121.58E 88 4.4b,4.3b
TAP VI 19 10 18 55.4 24.69N 121.84E 75–0 4.8L,4.3b
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s170.00000°,δ64.00000°,λ19.00000°. NP2:ϕ_s71.00000°,δ73.00000°,λ153.00000°. $M_0$3.36000×10^{15}
IDC Error ellipse: s-maj=20.9km s-min=13.0km az=71.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=152.7.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.8km az=105.0. Felt [II] at Taipei. Recorded [4 TAP] in Yilan; [2 TAP] in Hualien, Miaoli and Taoyuan; [1 TAP] in Changhua, Hsinchu, Nantou and Yunlin.
TAP B.
TAP VI 20 04 40 48.5 24.15N 121.67E 10–0 1.9L
¶600645182
TAP D.
ISC VI 21 15 51 17.6–1.3 24.42N–.03 121.75E–.03 65–7 93 0-3
ISCJB VI 21 15 51 16.7–.42 24.43N–.03 121.76E–.02 71–5 **¶600646412**
JMA VI 21 15 51 16.2–.10 24.37N 121.70E 65–1 3.1
TAP VI 21 15 51 17.0 24.41N 121.71E 65–0 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.7km az=151.7.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
TAP VI 21 20 17 35.2 24.27N 121.75E 12–1 1.8L
¶601177067
TAP D.
TAP VI 21 20 17 40.7 24.27N 121.77E 12–0 1.8L
¶601177070
TAP D.
TAP VI 23 03 58 27.0 25.03N 121.82E 141–0 3.5L
¶601177136
TAP C.
TAP VI 23 11 24 51.3 24.14N 121.68E 6–1 1.9L
¶601177152
TAP D.
TAP VI 26 13 19 13.3 24.85N 122.00E 8–0 1.9L
¶16682712
TAP C.
ISC VI 26 13 19 14.7–.72 23.85N–.01 121.03E–.02 16–4 4.5b 296 0-148
BJI VI 26 13 19 12.5 23.90N 121.00E 6 5.0b,4.7L **¶601177305**
MOS VI 26 13 19 13.3–.88 23.73N 121.10E 27 4.9b,4.7L
JMA VI 26 13 19 13.5–.10 23.86N 121.03E 0 4.8,4.7L
IASPE VI 26 13 19 14.4–.85 23.85N–.01 121.02E–.02 13–6 4.5b,4.7L
IDC VI 26 13 19 14.3–3.2 23.76N 121.18E 22–20 4.6,4.6s
ISCJB VI 26 13 19 14.9–.16 23.87N–.01 121.01E–.01 26–1 4.4b,4.6s
NEIC VI 26 13 19 14.3–.45 23.80N 121.06E 18–3 5.1L,4.7b
TAP VI 26 13 19 14.1 23.85N 121.00E 15–0 5.0L,4.7b
ISC Event type fe.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=106.9.
IASPE Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=116.9. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
IDC Error ellipse: s-maj=18.0km s-min=13.3km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=140.3.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=129.0. Felt at Bate, Danshui, Hsinchu, Sanxia, Taichung and Taipei. Recorded [3 TAP] in Changhua, Hualien and Nantou; [2 TAP] in Chiayi, Taichung, Yilan and Yunlin; [1 TAP] in Miaoli, Penghu and Taitung.
TAP B.
TAP VI 27 07 26 06.7 23.24N 120.44E 9–0 3.7L
¶601177393
TAP B.
ISC VI 28 03 27 26.1–1.4 24.71N–.04 121.89E–.03 76–7 82 0-3
ISCJB VI 28 03 27 25.8–.48 24.70N–.03 121.90E–.02 76–4 **¶600651354**
JMA VI 28 03 27 25.2–.20 24.65N 121.85E 78–2 2.6
TAP VI 28 03 27 26.0 24.69N 121.82E 74–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.1km az=158.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
TAP B.
ISC VI 28 09 41 38.1–1.1 23.59N–.02 121.92E–.02 16–9 74 0-2
ISCJB VI 28 09 41 39.6–.42 23.59N–.02 121.93E–.02 27–3 **¶600651485**
JMA VI 28 09 41 39.7–.10 23.60N 121.87E 37–4 2.8
TAP VI 28 09 41 40.7 23.64N 121.83E 38–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=139.2.
JMA Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.
TAP D.
ISC VI 28 21 17 10.7–1.3 24.28N–.03 121.88E–.03 59–7 85 0-3
JMA VI 28 21 17 09.5–.10 24.27N 121.82E 64–2 2.3 **¶601177484**
ISCJB VI 28 21 17 10.2–.40 24.27N–.02 121.89E–.02 61–5 2.3
TAP VI 28 21 17 10.2 24.31N 121.80E 61–0 2.9L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.6km az=143.1.
TAP C.
ISC VI 30 02 38 12.7–1.1 22.95N–.02 120.68E–.02 15–9 126 0-4
JMA VI 30 02 38 10.1–.10 22.99N 120.59E 0 3.7 **¶16692822**
TAP VI 30 02 38 12.3 22.96N 120.70E 21–0 4.0L
ISCJB VI 30 02 38 13.7–.22 22.94N–.01 120.69E–.02 23–2 4.0L
ISC Event type ke.
TAP B.
ISCJB Event type ke.
ISC VI 30 16 38 30.5–.87 23.08N–.02 121.43E–.02 20 114 0-4
JMA VI 30 16 38 28.2–.20 23.06N 121.55E 0 2.8 **¶600476826**
ISCJB VI 30 16 38 30.4–.25 23.06N–.01 121.45E–.02 20 2.8
TAP VI 30 16 38 31.0 23.12N 121.36E 20–0 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=138.7.
TAP B.
ISC VI 30 21 31 00.4–1.2 24.26N–.02 121.80E–.02 52–6 107 0-3
JMA VI 30 21 30 58.6–.10 24.22N 121.74E 59–1 2.8 **¶600476953**
ISCJB VI 30 21 30 59.7–.32 24.27N–.02 121.82E–.02 58–4 2.8
TAP VI 30 21 31 00.1 24.27N 121.76E 53–1 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.3km az=139.9.
TAP C.
ISC VI 30 22 47 27.5–.79 23.85N–.03 121.85E–.02 44–6 3.7b,2.8s 186 0-83
NIED VI 30 22 47 00 23.80N 121.80E 44 4.1W,2.8s **¶16702928**
BJI VI 30 22 47 24.5 23.98N 121.70E 9 3.9s,3.8b
JMA VI 30 22 47 27.4–.10 23.83N 121.78E 47–2 4.4,3.8b
ISCJB VI 30 22 47 27.9–.18 23.85N–.01 121.86E–.01 52–3 3.7b,2.9s
TAP VI 30 22 47 28.2 23.87N 121.80E 50–0 4.6L,2.9s
IDC VI 30 22 47 31.3–6.1 23.82N 121.80E 83–59 3.8,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s228.00000°,δ43.00000°,λ105.00000°. NP2:ϕ_s27.00000°,δ48.00000°,λ76.00000°. $M_0$1.67000×10^{15}
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=138.3.
TAP B.
IDC Error ellipse: s-maj=27.6km s-min=14.8km az=73.0.

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ISC I 17 02 26 15.5–.85 25.53N–.10 123.55E–.07 186–9 3.2b 38 1-81
ISCJB I 17 02 26 15.0–.52 25.41N–.08 123.59E–.07 192–6 3.1b **¶17190364**
JMA I 17 02 26 18.0–.20 25.36N 123.53E 175–3 3.6
IDC I 17 02 26 21.4–5.4 25.45N 123.63E 244–57 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=6.7km az=147.9.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=39.0km s-min=15.1km az=69.0.
ISC II 09 12 18 05.8–.82 25.08N–.06 123.65E–.04 10 3.8b 27 1-59
ISCJB II 09 12 18 05.0–.55 25.14N–.03 123.63E–.04 10 3.6b **¶17191944**
JMA II 09 12 18 06.2–.20 25.11N 123.65E 17–4 3.2
IDC II 09 12 18 39.1–6.7 25.69N 124.53E 363–82 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.8km az=169.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=37.4km s-min=14.6km az=61.0.
JMA II 10 10 21 32.4–.30 25.04N 123.66E 0 2.5
¶600527742
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
JMA II 15 10 08 36.4–.30 25.07N 123.69E 0 2.6
¶602734469
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 19 01 23 41.1–.73 26.96N–.08 125.43E–.06 228–8 3.3b 52 1-79
ISCJB II 19 01 23 40.5–.39 26.89N–.07 125.50E–.06 232–6 3.4b **¶17192514**
JMA II 19 01 23 43.7–.40 26.90N 125.45E 209 4.0
IDC II 19 01 23 45.4–3.6 27.00N 125.40E 270–36 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=3.9km az=144.0.
JMA Error ellipse: s-maj=4.4km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=23.6km s-min=18.8km az=88.0.
ISC II 27 01 17 23.9–.67 26.35N–.07 124.89E–.06 204–7 3.7b 66 1-75
ISCJB II 27 01 17 22.8–.31 26.31N–.06 124.93E–.05 205–5 3.6b **¶17192928**
JMA II 27 01 17 25.0–.30 26.45N 124.74E 176 3.9
IDC II 27 01 17 25.3–1.5 26.37N 124.94E 214–15 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=3.7km az=146.1.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
IDC Error ellipse: s-maj=18.3km s-min=11.6km az=63.0.
ISC III 04 04 26 45.1–.85 26.3N–.10 124.42E–.08 209–11 3.4b 33 2-71
IDC III 04 04 26 41.2–6.8 26.11N 123.90E 166–77 3.8,3.4 **¶17193219**
ISCJB III 04 04 26 44.2–.54 26.20N–.08 124.43E–.07 216–7 3.3b,3.4
JMA III 04 04 26 47.0–.30 26.27N 124.33E 188 3.8,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=94.1km s-min=16.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=6.6km az=143.0.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
JMA III 07 19 07 04.1–.20 25.63N 123.91E 197–5 3.5
¶602650643
JMA Error ellipse: s-maj=4.4km s-min=2.0km az=-1.0.
ISC III 26 15 00 39.8–.72 25.79N–.08 124.39E–.06 149–9 3.8b 61 1-80
ISCJB III 26 15 00 38.6–.32 25.77N–.06 124.41E–.05 153–5 3.7b **¶17198649**
IDC III 26 15 00 40.9–3.7 25.79N 124.44E 160–36 4.0,3.7
JMA III 26 15 00 41.8–.20 25.48N 124.39E 154–4 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=3.7km az=146.1.
IDC Error ellipse: s-maj=19.4km s-min=12.8km az=69.0.
JMA Error ellipse: s-maj=4.4km s-min=2.0km az=-1.0.
JMA III 28 00 17 25.2–.30 26.41N 124.68E 162 3.9
¶602700300
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC IV 07 10 31 21.8–.77 25.33N–.08 124.67E–.05 102–8 4.0b 58 1-81
ISCJB IV 07 10 31 20.7–.30 25.31N–.06 124.69E–.04 107–4 4.0b **¶17200099**
IDC IV 07 10 31 20.5–3.4 25.34N 124.64E 86–33 4.1,3.8
JMA IV 07 10 31 22.8–.10 25.25N 124.63E 97–3 3.7,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=3.5km az=149.7.
IDC Error ellipse: s-maj=25.8km s-min=14.7km az=65.0.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC IV 08 00 04 56.6–.89 25.3N–.20 123.45E–.09 150–16 3.2b 30 1-81
IDC IV 08 00 04 50.5–8.0 24.38N 123.38E 136–48 3.5,3.1 **¶17200178**
ISCJB IV 08 00 04 56.0–.62 25.2N–.10 123.48E–.09 157–13 3.0b,3.1
JMA IV 08 00 04 58.2–.30 25.06N 123.45E 147–4 3.5,3.1
ISC Event type ke.

IDC Error ellipse: s-maj=105.5km s-min=38.1km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=26.6km s-min=8.4km az=155.0.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
ISC IV 16 01 11 10.9–.23 25.36N–.02 124.03E–.02 140–1 5.9b 2323 1-178
NIED IV 16 01 11 00 25.20N 124.00E 130 5.8W **¶16440095**
MOS IV 16 01 11 08.4–.94 25.53N 123.99E 124 5.9b,4.7s
BJI IV 16 01 11 08.4 25.30N 124.15E 131 6.0b,5.8b
ISCJB IV 16 01 11 09.8–.11 25.37N–.01 123.99E–.01 138–1 5.8b,5.8b
TAP IV 16 01 11 10.9 25.16N 124.03E 147–0 6.2L,5.8b
GCMT IV 16 01 11 10.7–.10 25.30N 123.98E 138–0 5.8W,5.8b
NEIC IV 16 01 11 10.4–.09 25.44N 123.90E 131 5.9b,5.8W
NEIC IV 16 01 11 10.0–.00 25.39N 124.22E 131 5.9b,5.8W
IDC IV 16 01 11 11.9–.37 25.42N 123.99E 144–2 5.8,5.5
BKK IV 16 01 11 11.1–.80 25N–5.0 124E–4.0 134–7 6.4,6.2
JMA IV 16 01 11 11.3–.10 25.21N 124.02E 137–3 5.8,6.2
ISC Event type fe.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s175.00000°,δ19.00000°,λ-129.00000°. NP2:ϕ_s35.00000°,δ75.00000°,λ-78.00000°. $M_0$5.10000×10^{17}
MOS Error ellipse: s-maj=5.6km s-min=3.4km az=112.6.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.4km az=155.6.
TAP C.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c251; s119,c352;Duration: 1s9 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.27±.05 $M_{\theta\theta}$-0.16±.06; $M_{\phi\phi}$2.43±.07; $M_{r\theta}$-3.87±.04; $M_{\theta\phi}$0.44±.06; $M_{\phi r}$-4.10±.04; Best double couple: NP1:ϕ_s40.00000° ,δ80.00000°,λ-78.00000°. NP2:ϕ_s170.00000°,δ15.00000°,λ-139.00000°. Principal axes: T 5.8660,Plg34.0000°,Azm120.0000°; N 0.4920,Plg11.0000°,Azm218.0000° ; P -6.3560,Plg54.0000°,Azm324.0000° $M_0$6.11100×10^{17}
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.6km az=140.0. Felt [II] at Chatan, Okinawa. Also felt at Gushikawa and Ishigaki. Felt at Shulin, Taipei and Taoyuan, Taiwan. Recorded [2 JMA] in the Miyako-retto and Yaeyama-retto, Ryukyu Islands. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s45 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.19 $M_{\theta\theta}$1.25 $M_{\phi\phi}$1.94 $M_{r\theta}$-4.93 $M_{\theta\phi}$0.55 $M_{\phi r}$-4.59 Best double couple: NP1:ϕ_s46.00000°,δ79.00000°,λ-87.00000°. NP2:ϕ_s210.00000°,δ11.00000°,λ-105.00000°. Principal axes: T 6.7300,Plg34.0000° ,Azm133.0000°; N 1.0600,Plg3.0000°,Azm225.0000°; P -7.7800,Plg56.0000°,Azm319.0000° $M_0$7.30000×10^{17} Moment Tension Solution. Broadband fault plane solution: P waves. NP1: ϕ_s235.00000°,δ10.00000°,λ-90.00000°. NP2:ϕ_s55.00000°,δ80.00000°,λ-90.00000°. Principal axes: T Plg35.0000°,Azm145.0000°; N Plg0.0000°,Azm0.0000°; P Plg55.0000° ,Azm325.0000°
NEIC Event type se. Moment Tensor Solution. s11 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.00 $M_{\theta\theta}$0.06 $M_{\phi\phi}$1.95 $M_{r\theta}$-3.31 $M_{\theta\phi}$-0.16 $M_{\phi r}$-2.49 Best double couple: NP1:ϕ_s45.00000° ,δ80.00000°,λ-76.00000°. NP2:ϕ_s171.00000°,δ17.00000°,λ-143.00000°. Principal axes: T 3.8300,Plg33.0000°,Azm123.0000°; N 1.2600,Plg13.0000°,Azm222.0000° ; P -5.0900,Plg53.0000°,Azm330.0000° $M_0$4.60000×10^{17}
IDC Error ellipse: s-maj=7.2km s-min=5.9km az=71.0.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC IV 17 21 48 37.4–.41 25.16N–.04 124.51E–.03 105–3 4.4b 221 1-108
NIED IV 17 21 48 00 25.10N 124.50E 95 4.3W **¶16631126**
ISCJB IV 17 21 48 36.1–.18 25.19N–.03 124.50E–.02 104–2 4.4b
MOS IV 17 21 48 36.7–.99 25.19N 124.56E 113 4.5b
IDC IV 17 21 48 37.9–.71 25.26N 124.57E 106–5 4.1,3.9
NEIC IV 17 21 48 37.9–.43 25.21N 124.47E 106–4 4.6b,3.9
BJI IV 17 21 48 37.2 25.08N 124.46E 108 4.2b,4.2b
JMA IV 17 21 48 37.9–.10 25.12N 124.47E 96–3 3.9,4.2b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s345.00000°,δ47.00000°,λ39.00000°. NP2:ϕ_s227.00000°,δ63.00000°,λ130.00000°. $M_0$3.01000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.7km az=153.7.
MOS Error ellipse: s-maj=10.8km s-min=6.6km az=117.0.
IDC Error ellipse: s-maj=15.4km s-min=10.5km az=68.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.7km az=101.0.
JMA Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC V 02 14 50 13.2–.88 25.32N–.09 124.54E–.06 113–9 3.4b 42 1-81
IDC V 02 14 50 11.6–4.2 25.30N 124.40E 93–42 3.6,3.4 **¶17202617**
ISCJB V 02 14 50 12.2–.42 25.31N–.07 124.54E–.05 117–5 3.5b,3.4
JMA V 02 14 50 14.4–.10 25.24N 124.52E 107–3 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=41.4km s-min=18.3km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=4.4km az=149.1.
JMA Error ellipse: s-maj=4.4km s-min=2.0km az=-1.0.
ISC V 13 06 55 08.8–.93 26.3N–.10 125.7E–.10 114–15 3.4b 34 1-87
IDC V 13 06 54 47.0–7.8 24.74N 125.80E 0 4.0s,4.0 **¶17203529**
ISCJB V 13 06 55 07.7–.52 26.3N–.10 125.7E–.10 113–14 3.4b,4.0
JMA V 13 06 55 09.0–.20 26.18N 125.76E 117–4 3.2,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=207.0km s-min=51.4km az=13.0.
ISCJB Event type ke. Error ellipse: s-maj=28.3km s-min=3.6km az=142.4.
JMA Error ellipse: s-maj=4.4km s-min=3.0km az=-1.0.
ISC VI 03 05 21 02.4–.84 25.28N–.07 124.50E–.04 99–8 4.2b 61 1-92
NEIC VI 03 05 20 50.1–.72 25.66N 125.26E 10 4.2b **¶16640728**
IDC VI 03 05 20 51.1–3.3 25.17N 124.21E 0 4.2,4.0
ISCJB VI 03 05 21 01.1–.30 25.26N–.05 124.49E–.04 107–4 4.0b,4.0
JMA VI 03 05 21 02.8–.10 25.20N 124.46E 99–3 3.3,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=11.0km az=138.0.
IDC Error ellipse: s-maj=227.5km s-min=18.8km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=3.4km az=153.5.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
ISC VI 20 18 58 14.2–1.6 25.27N–.08 124.52E–.05 11–13 3.5b 30 1-81
IDC VI 20 18 58 12.3–1.0 25.38N 124.52E 0 3.6,3.5 **¶17206615**
JMA VI 20 18 58 13.6–.20 25.32N 124.52E 8 3.4,3.5
ISCJB VI 20 18 58 14.7–1.1 25.28N–.06 124.52E–.05 24–10 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 24 14 01 20.3–.90 25.4N–.10 124.88E–.07 90–10 3.8b 28 1-81
ISCJB VI 24 14 01 19.5–.63 25.4N–.10 124.90E–.06 97–7 3.6b **¶17206874**
JMA VI 24 14 01 21.1–.10 25.38N 124.85E 82–4 3.6
IDC VI 24 14 01 30.6–4.8 25.34N 124.69E 189–48 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=8.2km az=164.7.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
IDC Error ellipse: s-maj=28.2km s-min=13.4km az=72.0.

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JMA I 01 06 20 08.1–.30 24.96N 123.98E 5–5 3.7
NIED I 01 06 20 00 25.00N 124.00E 5 4.0W **¶600514428**
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s187.00000°,δ29.00000°,λ-141.00000°. NP2:ϕ_s62.00000°,δ72.00000°,λ-66.00000°. $M_0$1.11000×10^{15}
ISC I 01 06 26 40.9–1.3 24.91N–.05 123.99E–.04 13–9 3.7b 29 0-81
NIED I 01 06 26 00 24.90N 124.00E 14 3.8W **¶17189116**
ISCJB I 01 06 26 40.0–1.1 24.96N–.04 123.97E–.03 9–6 3.5b
IDC I 01 06 26 41.0–.89 24.48N 123.01E 0 3.8,3.6
JMA I 01 06 26 41.0–.20 24.94N 123.98E 12–3 3.8,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s168.00000°,δ57.00000°,λ165.00000°. NP2:ϕ_s266.00000°,δ78.00000°,λ33.00000°. $M_0$6.14000×10^{14}
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.3km az=162.7.
IDC Error ellipse: s-maj=39.6km s-min=19.3km az=73.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 06 16 13 07.8–1.0 23.8N–.20 125.5E–.10 34 3.7b 15 4-86
IDC I 06 16 13 02.6–1.1 23.85N 125.29E 0 3.8s,3.8 **¶16017949**
NEIC I 06 16 13 06.0–.73 24.22N 126.46E 35 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=63.7km s-min=19.8km az=68.0.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=11.8km az=59.0.
ISC I 12 08 09 14.4–1.4 24.29N–.06 125.35E–.05 35–4 4.0b,3.5s 46 0-81
NIED I 12 08 09 00 24.40N 125.20E 23 4.0W,3.5s **¶16019199**
NEIC I 12 08 09 09.3–1.8 24.11N 125.58E 10 4.7b,3.5s
ISCJB I 12 08 09 13.8–.88 24.31N–.06 125.33E–.06 42–5 3.9b,3.5s
JMA I 12 08 09 15.7–.10 24.38N 125.23E 40–4 3.6,3.5s
IDC I 12 08 09 29.3–16 25.08N 125.26E 131–108 3.9,3.8L
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s250.00000°,δ30.00000°,λ147.00000°. NP2:ϕ_s9.00000°,δ74.00000°,λ65.00000°. $M_0$1.00000×10^{15}
NEIC Event type se. Error ellipse: s-maj=39.2km s-min=12.8km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=5.3km az=143.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=142.8km s-min=26.4km az=179.0.
ISC I 20 09 23 41.8–2.4 24.10N–.07 125.40E–.04 14–14 3.8b 43 1-82
JMA I 20 09 23 44.6–.10 24.14N 125.35E 48 3.9 **¶17190611**
IDC I 20 09 23 56.5–7.7 24.70N 125.20E 110–72 3.9,3.7
ISC Event type ke.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=29.6km s-min=15.5km az=71.0.
ISC I 26 18 19 31.9–1.2 23.21N–.08 125.42E–.05 44 3.7b 30 2-51
IDC I 26 18 19 28.5–1.1 22.94N 125.14E 0 3.9,3.7 **¶17191053**
ISCJB I 26 18 19 31.1–.72 23.21N–.04 125.39E–.05 44 3.6b,3.7
JMA I 26 18 19 31.6–.20 23.21N 125.30E 54 3.4,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=51.3km s-min=18.0km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=6.2km az=143.9.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC I 27 14 24 21.1–1.1 24.9N–.10 125.63E–.07 36–1 3.4b 30 0-73
IDC I 27 14 24 15.1–2.3 25.05N 125.90E 0 3.6,3.4 **¶17191114**
ISCJB I 27 14 24 20.3–.54 24.92N–.09 125.65E–.06 47–4 3.4b,3.4
JMA I 27 14 24 20.0–.10 24.92N 125.66E 48–1 3.3,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=164.2km s-min=20.8km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=5.8km az=154.5.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC I 28 21 11 17.7–.97 23.11N–.08 124.90E–.04 24 3.4b 38 1-69
NIED I 28 21 11 00 23.10N 124.80E 8 3.9W **¶17191215**
IDC I 28 21 11 14.5–1.0 22.96N 124.83E 0 3.9L,3.8
ISCJB I 28 21 11 16.1–.64 23.10N–.04 124.86E–.04 24 3.3b,2.8s
JMA I 28 21 11 17.4–.30 23.11N 124.84E 57 3.7,2.8s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s96.00000°,δ35.00000°,λ-82.00000°. NP2:ϕ_s266.00000°,δ55.00000°,λ-96.00000°. $M_0$7.11000×10^{14}
IDC Error ellipse: s-maj=33.3km s-min=19.9km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=28.8.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 01 21 12 08.6–.82 23.16N–.06 125.22E–.04 24 3.8b 56 2-82
NIED II 01 21 12 00 23.10N 125.10E 5 3.9W **¶17191515**
IDC II 01 21 12 04.9–.91 23.06N 125.26E 0 3.9,3.8b
ISCJB II 01 21 12 06.7–.54 23.11N–.04 125.28E–.03 24 3.6b,3.3s
JMA II 01 21 12 09.3–.30 23.11N 125.06E 48 3.8,3.3s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s296.00000°,δ49.00000°,λ-44.00000°. NP2:ϕ_s59.00000°,δ58.00000°,λ-129.00000°. $M_0$8.43000×10^{14}
IDC Error ellipse: s-maj=34.8km s-min=17.5km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=161.9.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
JMA II 04 16 19 44.8–.20 24.76N 123.99E 0
¶602734456
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 06 13 16 50.5–.94 24.08N–.07 125.40E–.04 20–6 3.4b 42 1-48
IDC II 06 13 16 48.2–1.3 24.15N 125.23E 0 3.8,3.8s **¶17191792**
JMA II 06 13 16 52.8–.10 24.16N 125.32E 49 3.2,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=38.8km s-min=24.6km az=87.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC II 13 23 38 47.9–.79 24.99N–.09 125.63E–.06 49–7 4.1b 76 0-95
ISCJB II 13 23 38 47.2–.41 24.97N–.07 125.64E–.05 59–3 4.3s,4.1b **¶16168850**
JMA II 13 23 38 47.9–.10 25.00N 125.60E 53–1 3.9,4.1b
NEIC II 13 23 38 48.5–.70 24.88N 125.65E 63–7 4.3b,4.1b
IDC II 13 23 38 54.8–3.3 25.95N 125.54E 67–30 4.0,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=14.2km s-min=3.3km az=150.4.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=14.1km s-min=7.2km az=171.0. Recorded [2 JMA] on Miyako-jima.
IDC Error ellipse: s-maj=25.6km s-min=20.6km az=46.0.
JMA II 15 19 37 39.9–.20 23.39N 123.80E 47–2 3.6
¶600529418
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC II 21 00 34 07.8–1.3 24.87N–.04 123.93E–.03 14–8 4.0b 66 0-99
IDC II 21 00 34 05.5–.91 24.92N 123.91E 0 3.8,3.8L **¶16363010**
JMA II 21 00 34 06.6–.30 24.96N 123.96E 1–3 3.8,3.8L
ISCJB II 21 00 34 08.1–.57 24.93N–.04 123.93E–.02 23–5 4.0b,3.8L
NEIC II 21 00 34 11.8–.49 24.89N 123.84E 41–5 4.2b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=28.7km s-min=19.7km az=78.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.2km az=165.1.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.7km az=139.0.
ISC II 22 06 13 13.3–2.1 23.95N–.09 123.40E–.05 23–14 3.9b,3.4s 35 0-145
NIED II 22 06 13 00 23.80N 123.40E 35 4.2W,3.4s **¶16168901**
IDC II 22 06 13 10.0–.81 23.99N 123.32E 0 4.0,3.9
ISCJB II 22 06 13 13.1–.97 23.84N–.06 123.34E–.04 33–5 3.7b,3.4s
JMA II 22 06 13 13.7–.20 23.85N 123.39E 29–2 3.8,3.4s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s260.00000°,δ20.00000°,λ96.00000°. NP2:ϕ_s74.00000°,δ70.00000°,λ88.00000°. $M_0$2.18000×10^{15}
IDC Error ellipse: s-maj=36.8km s-min=19.0km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.4km az=179.6.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC III 01 23 26 57.5–.43 24.75N–.04 125.24E–.03 27–2 4.7b,3.9s 365 0-169
NIED III 01 23 26 00 24.80N 125.20E 14 4.6W,3.9s **¶16170164**
IDC III 01 23 26 53.4–.41 24.82N 125.11E 0 4.5,4.5
BJI III 01 23 26 56.3 24.58N 125.24E 35 4.7b,4.4s
JMA III 01 23 26 56.6–.10 24.76N 125.22E 25–1 4.9,4.4s
ISCJB III 01 23 26 56.1–.27 24.77N–.02 125.22E–.02 27–1 4.6b,3.9s
MOS III 01 23 26 57.3–1.3 24.83N 125.16E 33 4.8b,3.9s
NEIC III 01 23 26 58.1–1.4 24.80N 125.14E 29–9 4.9b,3.9s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s339.00000°,δ42.00000°,λ-61.00000°. NP2:ϕ_s122.00000°,δ54.00000°,λ-114.00000°. $M_0$7.89000×10^{15}
IDC Error ellipse: s-maj=13.5km s-min=10.5km az=81.0.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.5km az=151.6.
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=107.8.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=138.0. Recorded [3 JMA] on Miyako-jima and [1 JMA] on Iriomote-jima, Ishigaki-jima and Tarama-shima.
ISC III 13 20 26 25.9–1.6 25.86N–.08 125.72E–.08 4–11 3.7b 29 1-66
JMA III 13 20 26 23.4–.20 26.07N 125.54E 5 3.4 **¶17194978**
IDC III 13 20 26 24.0–2.0 26.00N 125.44E 0 3.7,3.5
ISCJB III 13 20 26 24.9–2.0 25.99N–.05 125.59E–.07 8–15 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
JMA III 14 00 27 54.7 24.37N 123.48E 17–1 3.8
¶602660335
JMA Event type fe.
ISC III 15 06 54 38.9–1.8 23.47N–.06 124.61E–.03 11–10 4.3b 79 1-85
IDC III 15 06 54 37.4–.60 23.45N 124.55E 0 4.4,4.3 **¶16314759**
ISCJB III 15 06 54 38.8–.91 23.42N–.03 124.60E–.03 25–6 4.2b,4.3
JMA III 15 06 54 40.7–.20 23.45N 124.56E 44 4.2,4.3
NEIC III 15 06 54 42.9–.44 23.44N 124.45E 40 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=13.5km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.0km az=149.9.

JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.5km az=165.0.
ISC III 18 23 34 31.1–.38 24.20N–.04 125.32E–.04 40–3 5.1s,5.0b 172 1-173
NIED III 18 23 34 00 24.20N 125.30E 44 4.8W,5.0b **¶16479284**
IDC III 18 23 34 25.2–.50 24.22N 125.33E 0 4.9,4.8
ISCJB III 18 23 34 28.5–.36 24.16N–.02 125.40E–.02 33–3 5.0s,4.9b
NEIC III 18 23 34 29.7–1.5 24.22N 125.31E 28–11 5.2b,5.1s
BJI III 18 23 34 29.1 24.21N 125.26E 29 5.1b,5.0b
JMA III 18 23 34 30.7–.10 24.25N 125.29E 57–4 4.9,5.0b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s78.00000°,δ49.00000°,λ7.00000°. NP2: ϕ_s343.00000°,δ85.00000°,λ139.00000°. $M_0$1.91000×10^{16}
IDC Error ellipse: s-maj=16.9km s-min=10.6km az=82.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.2km az=145.2.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.4km az=108.0. Recorded [1 JMA] on Iriomote-jima, Ishigaki-jima, Miyako-jima and Tarama-shima.
JMA Event type fe. Error ellipse: s-maj=3.3km s-min=1.0km az=-1.0.
ISC III 26 19 21 16.9–1.0 25.0N–.10 125.58E–.08 43–8 3.9b 37 0-76
ISCJB III 26 19 21 16.0–.57 25.0N–.10 125.59E–.08 50–6 3.7b **¶17198678**
JMA III 26 19 21 16.0–.10 24.90N 125.64E 50–1 3.6
IDC III 26 19 21 16.8–1.8 26.02N 125.41E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=24.0km s-min=4.4km az=152.6.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=98.9km s-min=24.2km az=65.0.
ISC III 27 11 25 39.4–.93 23.98N–.06 123.52E–.03 31–6 4.2b,3.2s 90 0-84
NIED III 27 11 25 00 24.00N 123.60E 35 4.2W,3.2s **¶16374413**
IDC III 27 11 25 34.6–.77 24.07N 123.57E 0 4.1,3.9
ISCJB III 27 11 25 39.0–.44 23.96N–.04 123.56E–.03 43–3 4.2b,3.3s
JMA III 27 11 25 39.5–.10 23.96N 123.59E 32–1 3.8,3.3s
BJI III 27 11 25 40.6 23.94N 123.34E 47 4.5b,4.3b
NEIC III 27 11 25 41.4–.53 23.99N 123.45E 47–4 4.6b,4.3b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s197.00000°,δ18.00000°,λ37.00000°. NP2:ϕ_s72.00000°,δ79.00000°,λ105.00000°. $M_0$2.25000×10^{15}
IDC Error ellipse: s-maj=29.9km s-min=17.5km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.1km az=173.7.
JMA Event type fe. Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=5.4km az=155.0. Recorded [1 JMA] on Iriomote-jima.
ISC III 29 10 48 21.2–.44 23.23N–.03 124.63E–.03 31–2 5.2b,5.2s 586 1-166
NIED III 29 10 48 00 23.30N 124.60E 23 5.3W,5.2s **¶16388277**
IDC III 29 10 48 16.6–.39 23.22N 124.62E 0 5.0,5.0
ISCJB III 29 10 48 17.4–.67 23.19N–.01 124.60E–.02 15–4 5.2s,5.1b
GCMT III 29 10 48 18.2–.30 23.14N 124.58E 12 5.4W,5.1b
NEIC III 29 10 48 18.2–.14 23.19N 124.56E 10 5.3b,5.1b
BKK III 29 10 48 18.5–.50 23N–5.0 125E–7.0 10 6.0,5.5
JMA III 29 10 48 19.4–.20 23.21N 124.63E 39 5.2,5.5
MOS III 29 10 48 20.0–.90 23.21N 124.58E 33 5.4b,5.5
BJI III 29 10 48 20.1 23.34N 124.55E 27 5.2b,5.2s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s152.00000°,δ67.00000°,λ-4.00000°. NP2:ϕ_s243.00000°,δ87.00000°,λ-157.00000°. $M_0$9.34000×10^{16}
IDC Error ellipse: s-maj=11.8km s-min=10.4km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=14.3.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c34; s53,c74; Duration: 1±2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.86±.06 $M_{\theta\theta}$1.46±.05; $M_{\phi\phi}$-0.60±.07; $M_{r\theta}$0.05±.13; $M_{\theta\phi}$-0.08±.05; $M_{\phi r}$-0.52±.16; Best double couple: NP1:ϕ_s304.00000°,δ58.00000°,λ-43.00000°. NP2:ϕ_s60.00000°,δ55.00000°,λ-139.00000°. Principal axes: T 1.4650,Plg2.0000°,Azm3.0000°; N -0.2030,Plg38.0000°,Azm94.0000° ; P -1.2630,Plg52.0000°,Azm270.0000° $M_0$1.36400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=3.3km az=120.0. Recorded [1 JMA] on Iriomote-jima.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
MOS Error ellipse: s-maj=6.9km s-min=4.0km az=112.2.
ISC IV 05 11 26 43.2–1.9 24.11N–.07 125.87E–.04 29–13 3.3b 47 1-81
IDC IV 05 11 26 39.9–1.0 24.11N 125.74E 0 3.9L,3.6 **¶17199885**
JMA IV 05 11 26 43.8–.20 24.12N 125.76E 60 3.6,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=36.3km s-min=20.8km az=74.0.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
ISC IV 06 17 13 59.2–.81 24.25N–.08 123.47E–.03 44–7 3.6b 40 0-95
NIED IV 06 17 13 00 24.30N 123.50E 32 4.0W **¶17200028**
ISCJB IV 06 17 13 58.7–.46 24.26N–.07 123.46E–.03 53–3 3.6b
JMA IV 06 17 13 59.7 24.29N 123.51E 45–1 3.7
IDC IV 06 17 13 59.8–3.5 24.33N 123.44E 48–34 3.7,3.7
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s65.00000°,δ47.00000°,λ62.00000°. NP2:ϕ_s283.00000°,δ50.00000°,λ117.00000°. $M_0$1.18000×10^{15}
ISCJB Event type fe. Error ellipse: s-maj=11.1km s-min=4.6km az=177.4.
JMA Event type fe.
IDC Error ellipse: s-maj=25.0km s-min=16.1km az=63.0.
ISC IV 08 07 20 13.4–.94 24.80N–.10 123.54E–.05 86–9 3.6b 25 0-82
ISCJB IV 08 07 20 12.6–.61 24.78N–.09 123.54E–.05 91–5 3.5b **¶17200215**
IDC IV 08 07 20 13.9–4.7 24.87N 123.59E 90–45 3.7,3.5
JMA IV 08 07 20 14.2–.10 24.78N 123.57E 80–2 3.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=6.6km az=167.9.
IDC Error ellipse: s-maj=45.1km s-min=22.0km az=75.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 13 18 37 41.5–1.8 23.64N–.06 125.01E–.04 6–11 4.0b,3.1s 52 1-88
NIED IV 13 18 37 00 23.70N 125.00E 38 4.0W,3.1s **¶16587493**
IDC IV 13 18 37 41.0–.83 23.60N 124.87E 0 3.9,3.8
ISCJB IV 13 18 37 42.0–1.0 23.61N–.03 125.09E–.03 25–8 3.7b,3.3s
JMA IV 13 18 37 44.9–.10 23.70N 125.01E 63 3.6,3.3s
NEIC IV 13 18 37 46.1–.96 23.60N 124.90E 35–9 4.2b,3.3s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ44.00000°,λ-154.00000°. NP2:ϕ_s94.00000°,δ73.00000°,λ-49.00000°. $M_0$9.63000×10^{14}
IDC Error ellipse: s-maj=25.7km s-min=16.8km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.2km az=159.4.
JMA Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.5km az=126.0.
ISC IV 26 20 28 55.1–1.6 24.32N–.09 125.15E–.06 31–9 3.5b 28 0-73
IDC IV 26 20 28 45.8–2.3 23.45N 124.95E 0 3.6,3.6 **¶17202184**
ISCJB IV 26 20 28 54.9–.94 24.34N–.09 125.18E–.06 46–6 3.4b,3.6
JMA IV 26 20 28 54.9–.20 24.31N 125.17E 39 3.1,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=162.7km s-min=28.6km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=5.0km az=151.1.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC IV 27 06 47 53.0–.00 25.76N–.09 125.81E–.08 82–10 3.7b 42 1-80
IDC IV 27 06 47 47.6–1.2 25.56N 128.59E 0 3.9,3.6 **¶600600519**
ISCJB IV 27 06 47 51.9–.40 25.75N–.08 125.81E–.07 88–6 3.5b,3.6
JMA IV 27 06 47 52.6–.10 25.74N 125.81E 88–4 3.5,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=25.1km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=3.0km az=141.2.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC IV 29 11 15 09.5–1.4 24.29N–.08 125.21E–.05 18–4 3.5b 31 1-81
IDC IV 29 11 15 06.2–1.2 24.25N 125.18E 0 3.7,3.6 **¶17202373**
JMA IV 29 11 15 10.6–.30 24.20N 125.21E 22 3.4,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=38.6km s-min=27.2km az=65.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
JMA V 02 05 49 18.0–.20 24.14N 123.64E 45–2 1.5
¶603241683
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
JMA V 07 14 32 32.8 24.40N 123.47E 15–3
¶603241688

JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
ISC V 09 13 33 45.4–.99 25.0N–.10 123.29E–.07 135–8 3.2b 25 1-81
ISCJB V 09 13 33 44.4–.81 24.99N–.09 123.30E–.07 137–5 3.1b **¶17203126**
JMA V 09 13 33 46.8–.20 24.88N 123.32E 130–3 2.9
IDC V 09 13 33 55.9–8.7 24.98N 123.76E 230–66 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=7.3km az=152.6.
JMA Error ellipse: s-maj=4.4km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=297.7km s-min=22.8km az=92.0.
ISC V 14 20 17 05.8–.79 25.44N–.08 125.45E–.06 86–8 3.8b 43 1-80
IDC V 14 20 16 55.7–.84 25.54N 125.44E 0 3.9,3.7 **¶17203638**
ISCJB V 14 20 17 04.7–.32 25.49N–.07 125.40E–.06 88–5 3.6b,3.7
JMA V 14 20 17 05.8–.10 25.54N 125.34E 76–4 3.5,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=38.2km s-min=17.3km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=4.3km az=143.8.
JMA Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
ISC V 20 21 18 12.0–1.2 24.8N–.10 125.47E–.07 43–7 3.9b 43 0-85
JMA V 20 21 18 12.2–.10 24.79N 125.41E 47–1 3.7 **¶17204083**
IDC V 20 21 18 28.1–6.3 25.71N 125.22E 144–60 3.9,3.6
ISC Event type ke.
JMA Event type fe. Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=33.6km s-min=14.4km az=65.0.
ISC V 22 12 44 33.8–1.2 24.89N–.07 123.54E–.04 29–12 3.5b,3.0s 19 1-49
ISCJB V 22 12 44 32.8–1.0 24.96N–.08 123.50E–.04 28–11 3.3b,3.0s **¶17204225**
JMA V 22 12 44 32.4–.30 25.00N 123.54E 12 2.8,3.0s
IDC V 22 12 44 33.2–1.4 25.58N 123.61E 0 3.6,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=6.2km az=8.0.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
IDC Error ellipse: s-maj=51.8km s-min=20.0km az=65.0.
ISC V 24 09 35 38.4–2.6 23.05N–.08 124.84E–.05 0–16 3.4b 37 1-47
NIED V 24 09 35 00 23.10N 124.90E 5 3.9W **¶17204369**
IDC V 24 09 35 38.7–1.2 22.93N 124.64E 0 3.7,3.6
JMA V 24 09 35 41.8–.30 23.06N 124.87E 44 3.7,3.6
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ21.00000°,λ-124.00000°. NP2:ϕ_s283.00000°,δ73.00000°,λ-78.00000°. $M_0$7.83000×10^{14}
IDC Error ellipse: s-maj=48.5km s-min=21.2km az=73.0.
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.
ISC V 25 02 24 35.1–2.3 25.94N–.09 125.91E–.08 16–16 3.4b 23 1-80
IDC V 25 02 24 25.7–7.8 24.68N 125.77E 0 3.6,3.5 **¶17204422**
JMA V 25 02 24 34.0–.20 26.08N 125.76E 23 3.0,3.5
ISCJB V 25 02 24 35.1–1.3 25.99N–.07 125.86E–.08 25–11 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 09 00 12 08.3–.51 25.03N–.04 125.97E–.03 49–4 4.6b,3.7s 279 1-100
NIED VI 09 00 12 00 25.10N 125.90E 47 4.7W,3.7s **¶16580431**
IDC VI 09 00 12 01.3–.61 24.99N 125.81E 0 4.4,4.3
BJI VI 09 00 12 03.0 24.68N 126.18E 40 4.6b,4.3b
ISCJB VI 09 00 12 06.6–.31 24.99N–.03 125.97E–.02 52–2 4.6b,3.7s
JMA VI 09 00 12 06.8–.10 25.01N 125.95E 61–2 4.4,3.7s
MOS VI 09 00 12 07.5–1.1 25.02N 125.69E 55 4.9b,3.7s
NEIC VI 09 00 12 08.8–.59 24.97N 125.85E 56–5 4.7b,3.7s
BKK VI 09 00 12 40.4–2.9 26N–61 123E–49 10 4.4,4.3
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s222.00000°,δ66.00000°,λ-176.00000°. NP2:ϕ_s131.00000°,δ87.00000°,λ-24.00000°. $M_0$1.14000×10^{16}
ISCJB Event type fe.
JMA Event type fe.
NEIC Event type fe. Recorded [1 JMA] on Kume-jima and Miyako-jima.
JMA VI 20 04 41 35.4–.30 24.95N 123.09E 149–4 2.8
¶603482801
JMA Error ellipse: s-maj=6.7km s-min=2.0km az=-1.0.
ISC VI 30 23 55 08.2–2.0 23.46N–.09 123.59E–.07 29–13 3.7b 34 1-85
NIED VI 30 23 55 00 23.40N 123.60E 14 4.0W **¶17207277**
IDC VI 30 23 55 05.0–1.1 23.23N 122.90E 0 3.8,3.7
ISCJB VI 30 23 55 08.6–1.1 23.45N–.07 123.62E–.04 47–10 3.5b,3.1s
JMA VI 30 23 55 08.2–.20 23.43N 123.64E 50–3 3.7,3.1s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s72.00000°,δ20.00000°,λ-172.00000°. NP2:ϕ_s334.00000°,δ87.00000°,λ-70.00000°. $M_0$1.05000×10^{15}
IDC Error ellipse: s-maj=77.2km s-min=18.7km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.9km az=179.6.
JMA Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.

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ISC I 23 09 18 30.1–.76 22.51N–.04 123.03E–.03 20 3.6b 140 1-84
IDC I 23 09 18 28.3–1.1 22.53N 123.18E 0 3.8,3.6 **¶17190786**
ISCJB I 23 09 18 30.6–.38 22.60N–.02 122.98E–.02 20 3.4b,3.6
JMA I 23 09 18 31.3–.40 22.55N 122.93E 50 4.4,3.6
TAP I 23 09 18 33.0 22.51N 122.86E 53–1 4.5L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=57.5km s-min=21.0km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=158.4.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
TAP D.
ISC II 06 05 37 21.6–1.6 22.36N–.03 125.35E–.04 8–10 4.8b,3.8s 204 2-148
NIED II 06 05 37 00 22.70N 125.30E 20 4.4W,3.8s **¶16007690**
IDC II 06 05 37 19.6–.53 22.35N 125.56E 0 4.6,4.5
ISCJB II 06 05 37 20.0–.94 22.46N–.02 125.32E–.03 9–6 4.7b,3.8s
BJI II 06 05 37 20.5 22.41N 125.37E 8 4.8b,4.4b
NEIC II 06 05 37 21.3–.21 22.27N 125.24E 10 4.8b,4.4b
MOS II 06 05 37 22.2–1.4 22.38N 125.41E 25 5.1b,4.4b
JMA II 06 05 37 25.6–.40 22.68N 125.29E 81 4.2,4.4b
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s36.00000°,δ70.00000°,λ168.00000°. NP2:ϕ_s130.00000°,δ79.00000°,λ20.00000°. $M_0$4.25000×10^{15}
IDC Error ellipse: s-maj=19.5km s-min=11.3km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=1.8.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=4.2km az=60.0.
MOS Error ellipse: s-maj=11.1km s-min=5.9km az=106.4.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
ISC II 16 08 55 05.7–2.2 22.91N–.06 123.10E–.04 30–20 44 1-3
JMA II 16 08 55 06.5–.30 22.98N 123.04E 53 2.9 **¶600529594**
TAP II 16 08 55 07.2 22.90N 122.82E 110–2 3.5L
ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=2.0km az=-1.0.
TAP D.
JMA II 16 22 14 11.2–.40 21.53N 123.13E 48 3.5
¶600529821
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
ISC V 07 19 40 26.4–2.3 22.27N–.04 123.91E–.05 26–18 4.2b,3.2s 136 2-84
NIED V 07 19 40 00 22.30N 123.70E 20 4.4W,3.2s **¶16505593**
ISCJB V 07 19 40 23.0–.97 22.32N–.02 123.90E–.03 15–6 4.2b,3.4s
IDC V 07 19 40 22.2–.62 22.19N 123.79E 0 4.8L,4.2
NEIC V 07 19 40 25.2–2.5 22.25N 123.66E 16–16 4.4b,4.2
JMA V 07 19 40 25.4–.60 22.35N 123.73E 52 4.5,4.2
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s67.00000°,δ69.00000°,λ-177.00000°. NP2:ϕ_s335.00000°,δ87.00000°,λ-21.00000°. $M_0$3.83000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.1km az=25.2.
IDC Error ellipse: s-maj=19.3km s-min=12.8km az=88.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.1km az=91.0.
JMA Error ellipse: s-maj=4.4km s-min=4.1km az=-1.0.
JMA V 18 19 28 48.0–.30 22.87N 123.16E 55 3.6
¶600617455
JMA Error ellipse: s-maj=2.2km s-min=2.0km az=-1.0.

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Philippines.

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MAN	**I**	**01 22 21 22**	**19.69N**	**121.43E**	**1**	**4.9b,3.8L**			
							¶601668367		
MAN	**I**	**01 23 31 08**	**17.27N**	**119.93E**	**22**	**4.9b,3.9L**			
							¶601668368		
IDC	**I**	**02 10 27 45.2–1.5**	**5.46N**	**127.01E**	**0**	**3.9,3.8**			
							¶17189208		
IDC	Error ellipse: s-maj=148.4km s-min=19.0km az=67.0.								
ISC	**I**	**02 22 21 22.7–.66**	**19.68N–.04**	**121.47E–.08**	**10**	**3.8b**	**23**	**1-87**	
IDC	I	02 22 21 20.9–.86	19.62N	121.70E	0	4.1L,3.9		**¶17189260**	
ISCJB	I	02 22 21 22.7–.47	19.80N–.03	121.42E–.09	10	3.6b,3.9			
MAN	I	02 22 21 22	19.74N	121.44E	2	4.9b,3.8L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=35.7km s-min=17.4km az=72.0.								
ISCJB	Event type ke. Error ellipse: s-maj=12.4km s-min=4.7km az=8.0.								
ISC	**I**	**02 23 31 07.3–1.4**	**17.19N–.03**	**119.99E–.05**	**16–9**	**4.0b**	**48**	**1-170**	
IDC	I	02 23 31 04.1–.70	17.10N	120.25E	0	4.1,3.9		**¶16007509**	
MAN	I	02 23 31 06	17.37N	119.64E	31	5.0b,4.1s			
NEIC	I	02 23 31 10.4–.92	17.11N	120.29E	46–8	4.2b,4.1s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=29.8km s-min=15.5km az=69.0.								
NEIC	Event type se. Error ellipse: s-maj=10.9km s-min=7.7km az=77.0.								
ISC	**I**	**02 23 52 57.1–1.4**	**10.45N–.06**	**126.30E–.08**	**56–13**	**4.2b**	**52**	**1-120**	
IDC	I	02 23 52 49.6–.55	10.48N	126.24E	0	4.1,4.0		**¶16007511**	
MAN	I	02 23 52 51	10.41N	126.49E	0	5.0b,4.0s			
ISCJB	I	02 23 52 55.3–1.1	10.48N–.05	126.38E–.08	55–10	4.2b,4.0s			
NEIC	I	02 23 53 02.1–1.4	10.37N	126.17E	105–13	4.5b,4.0s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=25.6km s-min=13.5km az=75.0.								
ISCJB	Event type se. Error ellipse: s-maj=13.8km s-min=7.1km az=156.9.								
NEIC	Event type se. Error ellipse: s-maj=9.4km s-min=6.1km az=54.0.								
IDC	**I**	**03 03 56 38.1–2.8**	**18.28N**	**119.51E**	**0**	**3.6,3.4**			
							¶17189290		
IDC	Error ellipse: s-maj=309.8km s-min=21.7km az=61.0.								
ISC	**I**	**03 14 43 53.3–1.1**	**12.47N–.08**	**126.1E–.10**	**32**	**4.0b,2.9s**	**13**	**2-50**	
IDC	I	03 14 43 47.5–1.7	12.65N	126.25E	0	4.3,4.2		**¶15964336**	
ISCJB	I	03 14 43 50.7–.84	12.53N–.07	126.20E–.10	32	4.1b,3.1s			
NEIC	I	03 14 43 54.8–2.6	12.61N	126.25E	58–24	4.0b,3.1s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=57.0km s-min=20.3km az=57.0.								
ISCJB	Event type se. Error ellipse: s-maj=13.8km s-min=10.6km az=176.9.								
NEIC	Event type se. Error ellipse: s-maj=38.6km s-min=12.5km az=63.0.								
ISC	**I**	**03 18 16 02.2–.97**	**19.27N–.10**	**122.4E–.10**	**35**	**3.7b**	**14**	**2-87**	
IDC	I	03 18 15 56.9–.98	19.34N	122.62E	0	3.8,3.7b		**¶17189353**	
ISCJB	I	03 18 16 00.2–.70	19.32N–.07	122.38E–.09	33	3.6b,3.7b			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**03 19 12 07.0–.94**	**19.3N–.10**	**122.1E–.10**	**44**	**3.5b**	**12**	**2-87**	
IDC	I	03 19 12 01.2–.96	19.30N	122.33E	0	3.7,3.6		**¶17189356**	
ISCJB	I	03 19 12 05.3–.73	19.27N–.08	122.22E–.10	44	3.5b,3.6			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**04 02 23 16.2–1.2**	**13.3N–.20**	**125.5E–.30**	**24**	**3.4b**	**6**	**24-49**	
IDC	I	04 02 23 12.7–1.2	13.29N	125.48E	0	3.7,3.5		**¶17189379**	
ISCJB	I	04 02 23 14.4–.96	13.3N–.10	125.5E–.20	24	3.4b,3.0s			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**06 04 26 01.7–.86**	**8.93N–.08**	**127.1E–.10**	**38**	**3.7b**	**12**	**1-121**	
IDC	I	06 04 25 56.0–.93	8.96N	127.11E	0	3.9,3.8		**¶17189568**	
ISCJB	I	06 04 25 59.5–.74	8.94N–.07	127.16E–.10	38	3.7b,3.8			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**06 15 26 41.3–.61**	**10.86N–.05**	**126.35E–.08**	**38–2**	**4.6b,3.8s**	**124**	**1-147**	
IDC	I	06 15 26 35.5–.45	10.84N	126.20E	0	4.5,4.4		**¶16017946**	
BJI	I	06 15 26 36.3	10.55N	126.53E	34	4.9b,4.8s			
MAN	I	06 15 26 36	10.91N	126.66E	14	5.5b,4.8s			
MOS	I	06 15 26 38.8–1.1	10.86N	126.15E	31	4.8b,4.8s			
ISCJB	I	06 15 26 41.0–.91	10.90N–.04	126.33E–.07	52–7	4.6b,3.8s			
NEIC	I	06 15 26 41.6–2.2	10.85N	126.25E	42–21	4.8b,3.8s			
DJA	I	06 15 27 00.8–2.0	11N–12	126E–12	236–15	5.1b,4.4			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**I**	**07 17 01 54.7–.43**	**10.90N–.05**	**126.45E–.07**	**37**	**4.5b,3.4s**	**65**	**1-147**	
IDC	I	07 17 01 49.5–.50	10.91N	126.31E	0	4.4,4.3b		**¶16021264**	
NEIC	I	07 17 01 51.1–.31	10.94N	126.31E	10	4.7b,4.3b			
ISCJB	I	07 17 01 52.6–.35	10.95N–.03	126.51E–.05	37	4.4b,3.2s			
MAN	I	07 17 01 53	10.85N	126.36E	16	5.2b,4.4s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=24.8km s-min=11.8km az=71.0.								
NEIC	Event type se. Error ellipse: s-maj=13.2km s-min=6.7km az=72.0.								
ISCJB	Event type se. Error ellipse: s-maj=6.7km s-min=4.4km az=13.9.								
ISC	**I**	**08 09 32 29.3–1.2**	**10.06N–.04**	**126.30E–.07**	**53–11**	**4.4b,3.8s**	**70**	**1-146**	
IDC	I	08 09 32 22.0–.50	9.99N	126.12E	0	4.4,4.3		**¶16021272**	
ISCJB	I	08 09 32 28.8–.71	10.04N–.03	126.34E–.05	66–7	4.2b,4.3			
MAN	I	08 09 32 28	9.95N	126.19E	1	4.7b,3.6L			
NEIC	I	08 09 32 33.4–.83	9.93N	126.10E	94–8	4.4b,3.6L			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=19.7km s-min=11.8km az=80.0.								
ISCJB	Event type fe. Error ellipse: s-maj=9.0km s-min=5.1km az=158.5.								
MAN	Event type fe. INTENSITY II - LORETO DINAGAT ISLANDS.								
NEIC	Event type fe. Error ellipse: s-maj=10.5km s-min=5.3km az=78.0. Felt [II PIVS] at Loreto, Dinagat Island.								
ISC	**I**	**08 09 35 18.0–.94**	**10.07N–.06**	**126.40E–.09**	**42**	**3.9b**	**18**	**1-94**	
IDC	I	08 09 35 12.2–1.2	10.10N	126.10E	0	3.9,3.8		**¶17189688**	
ISCJB	I	08 09 35 16.6–.77	10.12N–.08	126.47E–.06	42	3.8b,3.8			
MAN	I	08 09 35 16	10.09N	126.26E	1	4.8b,3.7L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=92.7km s-min=24.7km az=70.0.								
ISCJB	Event type ke. Error ellipse: s-maj=11.0km s-min=8.4km az=12.2.								
ISC	**I**	**08 16 30 33.1–.56**	**18.01N–.04**	**119.97E–.05**	**36–2**	**4.4b,3.3s**	**71**	**0-117**	
IDC	I	08 16 30 27.6–.48	17.94N	120.17E	0	4.4,4.3		**¶16021278**	
ISCJB	I	08 16 30 32.6–.62	18.10N–.03	119.97E–.04	43–6	4.3b,3.4s			
NEIC	I	08 16 30 32.1–2.4	17.94N	119.98E	31–18	4.3b,3.4s			
MAN	I	08 16 30 33	18.12N	120.11E	18	4.9b,3.9s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=19.7km s-min=11.4km az=72.0.								
ISCJB	Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=161.8.								
NEIC	Event type se. Error ellipse: s-maj=9.5km s-min=8.2km az=72.0.								
ISC	**I**	**08 17 31 42.2–.46**	**11.09N–.05**	**126.24E–.08**	**39–6**	**4.7b,3.8s**	**145**	**1-147**	
ISCJB	I	08 17 31 41.9–.82	11.08N–.03	126.18E–.06	53–7	4.6b,3.8s		**¶15910776**	
MOS	I	08 17 31 42.2–1.1	11.03N	126.06E	56	4.9b,3.8s			
IDC	I	08 17 31 42.4–.54	11.09N	126.05E	38–4	4.4,4.3			
MAN	I	08 17 31 43	10.93N	126.02E	22	5.3b,4.6s			
NEIC	I	08 17 31 45.6–1.2	11.08N	126.12E	71–11	4.7b,4.6s			
BJI	I	08 17 31 46.6	11.07N	126.13E	104	5.0b,4.7b			
DJA	I	08 17 32 02.1–1.4	11N–6.0	126E–9.0	213–15	4.9b,4.3			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**I**	**08 18 20 02.2–.97**	**11.08N–.08**	**126.1E–.10**	**49**	**4.0b**	**15**	**1-68**	
IDC	I	08 18 19 56.9–1.7	10.97N	125.79E	0	3.9,3.8		**¶16021274**	
NEIC	I	08 18 19 57.6–.94	11.12N	125.95E	10	4.1b,3.8			
ISCJB	I	08 18 19 60.0–.80	11.14N–.06	126.2E–.10	49	3.8b,3.8			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
ISC	**I**	**08 18 30 13.1–.74**	**10.11N–.03**	**126.22E–.05**	**71–6**	**4.7b**	**290**	**1-155**	
MOS	I	08 18 30 08.0–1.1	10.09N	126.06E	39	5.0b		**¶15910778**	
IDC	I	08 18 30 09.0–2.3	10.06N	126.06E	32–16	4.6,4.5L			
ISCJB	I	08 18 30 11.2–.45	10.09N–.02	126.21E–.03	69–4	4.6b,4.5L			
NEIC	I	08 18 30 12.9–.92	10.09N	126.12E	68–8	4.9b,4.5L			
DJA	I	08 18 30 12.7–1.3	11N–4.0	126E–4.0	38–11	5.6,5.3			
BJI	I	08 18 30 13.9	10.06N	126.04E	93	5.0b,4.7b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=13.1km s-min=6.0km az=112.1.								
IDC	Error ellipse: s-maj=16.8km s-min=8.9km az=75.0.								
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=3.6km az=158.4.								
NEIC	Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=65.0.								
ISC	**I**	**08 19 22 28.9–1.5**	**8.86N–.05**	**127.13E–.09**	**43–14**	**4.2b**	**53**	**1-95**	
MAN	I	08 19 22 25	8.84N	127.20E	26	4.8b,3.8L		**¶16022591**	
ISCJB	I	08 19 22 27.1–1.0	8.85N–.04	127.16E–.07	47–9	4.2b,3.8L			
IDC	I	08 19 22 30.3–2.9	8.85N	127.15E	56–27	4.2,3.9			
NEIC	I	08 19 22 32.1–1.3	8.79N	127.05E	77–12	4.4b,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=11.3km s-min=6.5km az=160.6.								
IDC	Error ellipse: s-maj=26.7km s-min=13.7km az=67.0.								
NEIC	Event type se. Error ellipse: s-maj=11.8km s-min=7.0km az=76.0.								
ISC	**I**	**08 19 38 43.2–.47**	**8.90N–.05**	**127.25E–.07**	**38**	**4.3b,3.1s**	**79**	**1-145**	
MAN	I	08 19 38 39	9.06N	127.45E	50	5.0b,4.1s		**¶16021279**	
ISCJB	I	08 19 38 41.5–.31	8.90N–.03	127.23E–.04	38	4.3b,3.1s			
NEIC	I	08 19 38 46.4–1.1	8.81N	127.07E	67–10	4.4b,3.1s			
IDC	I	08 19 38 48.4–2.5	8.80N	127.05E	83–23	4.2,4.0			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=5.2km s-min=4.4km az=12.1.								
NEIC	Event type se. Error ellipse: s-maj=10.9km s-min=6.1km az=75.0.								
IDC	Error ellipse: s-maj=22.7km s-min=10.8km az=70.0.								
ISC	**I**	**08 19 47 06.1–1.8**	**10.05N–.04**	**126.28E–.08**	**16–10**	**3.6b**	**23**	**1-86**	
IDC	I	08 19 47 03.6–1.8	9.93N	126.00E	0	3.8,3.7b		**¶17189720**	
MAN	I	08 19 47 07	10.05N	126.30E	2	4.7b,3.7L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=175.6km s-min=27.7km az=70.0.								
ISC	**I**	**08 21 22 25.7–.69**	**8.82N–.07**	**127.15E–.09**	**38**	**4.0b**	**23**	**2-106**	
IDC	I	08 21 22 20.5–.94	8.92N	127.18E	0	3.9,3.8		**¶16022592**	
MAN	I	08 21 22 22	8.90N	127.23E	13	4.4b,3.3L			
ISCJB	I	08 21 22 24.0–.52	8.90N–.06	127.26E–.06	38	3.9b,3.3L			
NEIC	I	08 21 22 25.8–2.5	8.88N	127.06E	37–23	4.3b,3.3L			
ISC	Event type se.								
IDC	Error ellipse: s-maj=42.5km s-min=16.8km az=81.0.								
ISCJB	Event type se. Error ellipse: s-maj=9.2km s-min=8.8km az=24.9.								
NEIC	Event type se. Error ellipse: s-maj=23.0km s-min=9.4km az=67.0.								
ISC	**I**	**09 01 17 27.5–2.0**	**9.0N–.50**	**128E–1.0**	**35**	**3.8b,3.3s**	**8**	**30-94**	
IDC	I	09 01 17 22.4–2.0	9.02N	127.51E	0	3.8,3.7b		**¶17189733**	
ISC	Event type ke.								
IDC	Error ellipse: s-maj=200.7km s-min=19.8km az=70.0.								
ISC	**I**	**09 03 42 34.7–1.7**	**10.09N–.06**	**126.40E–.10**	**47–16**	**4.0b,3.2s**	**45**	**1-120**	
ISCJB	I	09 03 42 33.7–1.0	10.12N–.05	126.47E–.07	57–9	4.0b,3.2s		**¶17189736**	
MAN	I	09 03 42 36	10.00N	126.10E	14	5.0b,4.0s			
IDC	I	09 03 42 43.7–2.0	9.92N	125.97E	129–19	4.1,3.8			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=12.7km s-min=6.7km az=158.8.								
IDC	Error ellipse: s-maj=30.6km s-min=12.5km az=69.0.								
ISC	**I**	**09 20 37 31.9–.83**	**8.96N–.04**	**127.23E–.06**	**48–7**	**4.7b,4.0s**	**165**	**1-145**	
IDC	I	09 20 37 25.4–.50	8.86N	127.12E	0	4.5b,4.5		**¶15927197**	
MAN	I	09 20 37 26	9.02N	127.41E	28	5.2b,4.3s			
MOS	I	09 20 37 29.7–.94	8.81N	126.99E	43	4.8b,4.3s			
BJI	I	09 20 37 30.0	8.67N	127.16E	65	5.1b,4.7s			
ISCJB	I	09 20 37 30.1–.66	8.99N–.03	127.22E–.04	45–5	4.6b,4.0s			
NEIC	I	09 20 37 31.4–1.5	8.90N	127.13E	46–14	4.8b,4.0s			
DJA	I	09 20 37 37.3–1.0	9N–7.0	127E–5.0	88–9	5.5b,5.0			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**I**	**09 23 00 19.2–2.7**	**20.7N–.30**	**121.2E–.20**	**29**	**3.5b**	**17**	**4-86**	
IDC	I	09 23 00 13.2–1.2	20.44N	121.21E	0	3.7,3.6L		**¶17189797**	
JMA	I	09 23 00 16.9–.40	20.86N	121.19E	0	4.3,3.6L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=54.0km s-min=23.8km az=68.0.								
JMA	Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.								
MAN	**I**	**10 13 53 42**	**15.60N**	**122.25E**	**12**	**4.3b,3.1L**			
							¶601668404		
MAN	**I**	**11 06 31 40**	**19.13N**	**121.13E**	**22**	**4.3b,3.1L**			
							¶601668413		
ISC	**I**	**12 12 57 10.2–3.8**	**8.97N–.07**	**127.2E–.10**	**29–25**	**4.3b,3.2s**	**32**	**1-145**	
IDC	I	12 12 57 05.6–.67	9.01N	127.39E	0	4.3L,4.2		**¶16022606**	
ISCJB	I	12 12 57 08.0–2.8	9.02N–.06	127.35E–.06	28–19	4.1b,3.4s			
MAN	I	12 12 57 08	9.10N	127.13E	0	4.6b,3.8s			
NEIC	I	12 12 57 13.2–2.9	8.92N	127.24E	58–26	4.2b,3.8s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=31.4km s-min=13.5km az=73.0.								
ISCJB	Event type se. Error ellipse: s-maj=11.3km s-min=9.2km az=33.5.								
NEIC	Event type se. Error ellipse: s-maj=29.9km s-min=9.3km az=65.0.								
ISC	**I**	**13 00 30 17.6–1.1**	**11.05N–.09**	**126.1E–.10**	**49**	**4.1b**	**10**	**1-85**	
IDC	I	13 00 30 09.6–.97	11.53N	127.38E	0	4.0,3.9		**¶17190026**	
ISCJB	I	13 00 30 15.8–.85	11.08N–.07	126.17E–.08	49	4.0b,3.9			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**13 10 20 42.0–.57**	**6.24N–.03**	**127.08E–.04**	**80–4**	**5.0b**	**349**	**1-169**	
MOS	I	13 10 20 37.4–1.1	6.31N	127.09E	52	5.3b		**¶15925950**	
ISCJB	I	13 10 20 40.5–.34	6.23N–.02	127.15E–.03	85–3	5.0b			
IDC	I	13 10 20 40.1–1.6	6.22N	127.00E	62–13	4.9,4.7			
DJA	I	13 10 20 41.9–.60	6N–5.0	127E–4.0	71–6	5.6,5.5b			
MAN	I	13 10 20 41	6.18N	127.02E	61	5.5b,4.8s			
KLM	I	13 10 20 41.5	6.36N	127.30E	64	6.4s,5.1b			
BJI	I	13 10 20 42.8	6.23N	127.14E	110	5.1b,4.9b			
NEIC	I	13 10 20 43.1–.74	6.21N	127.04E	90–7	5.1b,4.9b			
GCMT	I	13 10 20 43.2–.30	6.16N	127.21E	63–2	5.0W,4.9b			
ISC	Event type se.								
MOS	Error ellipse: s-maj=13.0km s-min=5.8km az=111.9.								
ISCJB	Event type se. Error ellipse: s-maj=4.8km s-min=3.0km az=155.2.								
IDC	Error ellipse: s-maj=14.2km s-min=8.0km az=81.0.								
NEIC	Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=76.0.								
GCMT	Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c45; s76,c113; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.58±.15 $M_{\theta\theta}$0.69±.12; $M_{\phi\phi}$-3.27±.12; $M_{r\theta}$1.35±.07; $M_{\theta\phi}$-1.31±.10; $M_{\phi r}$1.22±.12; Best double couple: NP1:ϕ_s37.00000°,δ62.00000°,λ114.00000°. NP2:ϕ_s173.00000°,δ36.00000°,λ53.00000°. Principal axes: T 3.3230,Plg65.0000°,Azm349.0000°; N 0.7190,Plg21.0000°,Azm205.0000°; P -4.0400,Plg14.0000°,Azm109.0000° $M_0$3.68200×10^{16}								
ISC	**I**	**13 17 45 01.4–.67**	**8.08N–.07**	**127.08E–.08**	**46**	**4.0b**	**31**	**1-97**	
MAN	I	13 17 44 56	8.09N	127.08E	1	4.9b,4.0s		**¶16151269**	
IDC	I	13 17 44 56.0–.82	8.30N	127.01E	0	4.1,4.0			
NEIC	I	13 17 44 58.0–.55	8.28N	126.80E	10	4.7b,4.0			
ISCJB	I	13 17 44 59.8–.56	8.13N–.07	127.12E–.05	46	4.0b,4.0			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
MAN	**I**	**15 14 50 33**	**7.94N**	**127.51E**	**32**	**4.6b,3.4L**			
							¶601668423		
ISC	**I**	**16 11 02 12.5–2.0**	**10.02N–.05**	**126.38E–.07**	**15–11**	**4.1b,3.5s**	**37**	**1-120**	
IDC	I	16 11 02 09.8–.78	10.03N	126.17E	0	4.1,4.0		**¶16007276**	
MAN	I	16 11 02 14	9.97N	126.36E	14	4.8b,3.7L			
NEIC	I	16 11 02 15.3–.44	10.00N	126.13E	35	4.4b,3.7L			
ISC	Event type se.								
IDC	Error ellipse: s-maj=48.4km s-min=16.3km az=66.0.								
NEIC	Event type se. Error ellipse: s-maj=25.4km s-min=8.4km az=70.0.								
ISC	**I**	**16 23 34 30.3–.66**	**20.12N–.04**	**121.4E–.10**	**10**	**3.9b**	**22**	**2-105**	
IDC	I	16 23 34 28.7–.95	20.16N	121.45E	0	4.0,3.8b		**¶16057180**	
ISCJB	I	16 23 34 29.3–.49	20.16N–.03	121.4E–.10	10	4.0b,2.8s			
NEIC	I	16 23 34 31.9–2.6	20.10N	121.34E	21–19	4.3b,2.8s			
ISC	Event type se.								

IDC Error ellipse: s-maj=71.8km s-min=18.1km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=4.9km az=177.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=7.7km az=61.0.
MAN I 18 01 30 08 10.11N 126.35E 16 5.5b,4.8s
¶601668431
ISC I 18 10 41 15.9–.59 10.99N–.06 126.15E–.08 49 4.2b,3.3s 36 1-93
IDC I 18 10 41 09.3–.63 11.02N 126.20E 0 4.2,4.1b **¶16151753**
ISCJB I 18 10 41 14.3–.45 11.05N–.04 126.25E–.06 49 4.1b,3.2s
NEIC I 18 10 41 14.3–.34 10.91N 126.07E 35 4.2b,3.2s
MAN I 18 10 41 15 11.06N 126.16E 36 5.1b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=34.8km s-min=14.2km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.8km az=10.1.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.1km az=82.0.
MAN I 19 13 15 32 19.25N 121.01E 30 4.8b,3.7L
¶601668437
IDC I 19 19 56 50.8–2.3 13.80N 125.42E 0 3.7,3.4
¶17190577
IDC Error ellipse: s-maj=90.1km s-min=23.7km az=55.0.
ISC I 20 13 11 56.7–1.5 10.5N–.10 126.6E–.20 35 3.3b 6 1-55
IDC I 20 13 11 51.4–4.0 10.60N 126.82E 0 3.4,3.4b **¶17190622**
ISCJB I 20 13 11 54.5–1.3 10.5N–.10 126.7E–.10 35 3.5b,2.9s
ISC Event type ke.
ISCJB Event type ke.
MAN I 20 14 02 56 19.37N 119.69E 33 4.8b,3.7L
¶601668453
ISC I 21 09 18 28.2–.55 5.30N–.05 127.73E–.07 53 4.5b,3.4s 66 2-98
ISCJB I 21 09 18 26.7–.34 5.25N–.03 127.71E–.05 53 4.4b,3.4s **¶15957990**
DJA I 21 09 18 27.0–2.5 5N–12 128E–5.0 14–22 5.2b,5.0b
BJI I 21 09 18 27.9 4.86N 127.88E 91 5.0b,4.6b
IDC I 21 09 18 28.7–2.2 5.18N 127.62E 60–20 4.5L,4.2
NEIC I 21 09 18 29.3–1.0 5.26N 127.77E 66–9 4.5b,4.2
MAN I 21 09 18 34 5.48N 127.24E 38 5.1b,4.2s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=3.9km az=163.9.
IDC Error ellipse: s-maj=34.8km s-min=9.6km az=63.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=5.9km az=61.0.
MAN I 22 15 44 10 10.10N 126.10E 0 4.7b,3.6L
¶601668460
IDC I 26 14 15 18.9–1.1 20.97N 121.42E 0 3.7,3.5
¶17191040
IDC Error ellipse: s-maj=70.2km s-min=22.4km az=69.0.
ISC I 27 09 56 41.9–1.0 20.7N–.10 122.5E–.20 31 3.9b 9 3-86
IDC I 27 09 56 37.1–.87 20.74N 122.57E 0 4.1,3.9 **¶17191095**
ISC Event type ke.
IDC Error ellipse: s-maj=61.9km s-min=16.7km az=66.0.
MAN I 27 17 21 54 17.35N 119.81E 31 4.8b,3.7L
¶601668472
ISC I 29 11 20 55.9–1.3 6.3N–.20 127.1E–.20 100 3.8b 10 1-56
IDC I 29 11 20 47.5–1.1 5.22N 125.21E 0 4.0,3.8 **¶17191254**
ISCJB I 29 11 20 53.5–1.0 6.3N–.20 127.3E–.20 100 3.8b,3.8
MAN I 29 11 20 57 6.35N 126.53E 124 4.8b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=46.4km s-min=13.2km az=89.0.
ISCJB Event type ke. Error ellipse: s-maj=30.0km s-min=8.4km az=135.4.
MAN I 29 23 37 34 15.93N 122.05E 29 3.9b,2.6L
¶601668482
ISC I 30 15 26 19.7–.62 19.85N–.04 120.65E–.08 28 3.8b 23 1-87
IDC I 30 15 26 16.0–.82 19.91N 120.74E 0 4.0,3.8 **¶16024671**
NEIC I 30 15 26 16.6–5.5 19.91N 120.75E 4–34 4.2b,3.8
MAN I 30 15 26 18 19.98N 120.43E 33 4.6b,3.5L
ISCJB I 30 15 26 19.1–.42 19.95N–.04 120.52E–.06 28 3.8b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 31 00 40 54.9–4.8 19.68N 122.20E 0 3.5,3.3
¶17191371
IDC Error ellipse: s-maj=382.2km s-min=25.9km az=61.0.
MAN I 31 05 37 08 19.34N 121.20E 45 4.6b,3.4L
¶601668493
ISC II 01 12 27 42.3–.71 20.7N–.10 121.0E–.10 29 3.9b,3.3s 19 9-86
ISCJB II 01 12 27 40.4–.51 20.65N–.07 121.06E–.10 29 3.9b,3.3s **¶17191478**
IDC II 01 12 27 44.2–3.3 20.67N 121.09E 45–34 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=10.3km az=0.3.
IDC Error ellipse: s-maj=19.5km s-min=12.6km az=70.0.
IDC II 01 12 32 03.1–1.8 20.77N 121.26E 0 3.7,3.5
¶17191479
IDC Error ellipse: s-maj=144.2km s-min=20.1km az=64.0.
ISC II 02 22 09 00.2–.86 5.98N–.08 127.1E–.10 74 3.3b 17 1-123
ISCJB II 02 22 08 58.7–.70 5.97N–.08 127.1E–.10 74 3.4b **¶17191561**
IDC II 02 22 08 59.8–4.0 6.08N 127.16E 69–37 3.5,3.4
MAN II 02 22 09 08 6.48N 126.61E 24 4.8b,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=8.4km az=151.2.
IDC Error ellipse: s-maj=65.4km s-min=15.4km az=69.0.
ISC II 03 18 07 37.8–1.1 5.8N–.10 127.1E–.10 83 3.7b 14 1-83
MAN II 03 18 07 31 6.10N 127.42E 14 5.0b,4.0s **¶17191607**
ISCJB II 03 18 07 36.0–.82 5.80N–.09 127.07E–.08 83 3.6b,4.0s
IDC II 03 18 07 39.0–3.4 5.99N 127.04E 89–28 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=8.7km az=39.0.
IDC Error ellipse: s-maj=65.2km s-min=16.6km az=65.0.
ISC II 08 04 08 36.7–.36 10.96N–.03 126.72E–.04 29–2 4.8b,4.1s 329 2-154
MOS II 08 04 08 35.1–1.1 10.96N 126.74E 33 5.1b,4.1s **¶16009493**
ISCJB II 08 04 08 35.5–.98 11.01N–.02 126.73E–.03 33–7 4.7b,4.1s
MAN II 08 04 08 35 11.01N 126.65E 18 5.3b,4.5s
BJI II 08 04 08 37.9 10.95N 126.73E 57 4.9b,4.6b
IDC II 08 04 08 38.0–.50 10.96N 126.65E 45–4 4.5,4.4
NEIC II 08 04 08 39.2–.91 10.95N 126.68E 52–8 4.8b,4.4
DJA II 08 04 08 39.9–1.2 11N–6.0 127E–6.0 65–11 5.4b,4.9
ISC Event type fe.
ISCJB Event type fe.
MAN Event type fe.
NEIC Event type fe. Felt [II PIVS] at Tacloban, Leyte.
MAN II 11 01 49 08 19.47N 120.86E 33 4.4b,3.2L
¶601668542
ISC II 14 09 53 36.7–1.0 18.6N–.10 120.0E–.10 24 3.4b 14 1-89
IDC II 14 09 53 33.2–1.1 18.67N 120.38E 0 4.1s,4.1 **¶17192235**
ISCJB II 14 09 53 35.3–.89 18.7N–.10 119.9E–.10 24 4.0s,3.4b
MAN II 14 09 53 40 18.54N 120.16E 19 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=56.8km s-min=22.3km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=7.5km az=43.4.
ISC II 15 17 17 52.4–.97 13.4N–.20 125.4E–.30 24 3.5b 9 24-53
IDC II 15 17 17 48.7–.93 13.43N 125.37E 0 3.8s,3.8 **¶17192315**
ISCJB II 15 17 17 50.4–.77 13.4N–.10 125.3E–.20 24 3.8s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC II 15 18 37 06.7–1.0 10.4N–.10 126.5E–.10 44 3.5b 11 1-86
IDC II 15 18 37 00.4–1.1 10.50N 126.62E 0 3.7,3.6 **¶17192318**
ISCJB II 15 18 37 04.8–.79 10.43N–.08 126.5E–.10 44 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
MAN II 19 11 43 46 18.47N 119.60E 11 4.5b,3.4L
¶601668580
MAN II 22 18 30 19 17.33N 119.94E 28 4.5b,3.3L
¶601668602
ISC II 28 01 30 37.3–.65 5.2N–.10 127.5E–.10 108 4.0b 25 3-123
ISCJB II 28 01 30 35.7–.51 5.20N–.09 127.54E–.08 108 4.0b **¶17192974**
IDC II 28 01 30 45.0–6.6 5.08N 127.47E 181–64 4.1,3.7

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=8.6km az=43.1.
IDC Error ellipse: s-maj=31.3km s-min=13.3km az=71.0.
MAN III 01 02 56 46 10.18N 126.04E 24 4.5b,3.4L
¶601668634
MAN III 04 07 39 27 13.72N 119.97E 33 3.8b,2.5L
¶601668662
ISC III 05 15 12 33.2–.69 19.53N–.08 122.2E–.10 44 3.9b,3.4s 20 1-87
IDC III 05 15 12 27.4–.82 19.51N 122.24E 0 3.9,3.8 **¶17193288**
ISCJB III 05 15 12 31.3–.50 19.55N–.05 122.3E–.10 44 3.7b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 20 01 22.8–1.7 6.3N–.30 127.4E–.30 100 3.4b 6 2-56
IDC III 06 20 01 12.6–2.0 5.86N 126.18E 0 3.6,3.4 **¶17193377**
ISCJB III 06 20 01 20.7–1.5 6.4N–.20 127.5E–.20 100 3.4b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC III 07 00 59 41.2–1.1 15.08N 118.93E 0 3.7,3.6
¶17193389
IDC Error ellipse: s-maj=114.9km s-min=19.0km az=66.0.
MAN III 08 02 15 33 19.04N 121.17E 32 3.8b,2.6L
¶601668684
MAN III 09 16 55 07 18.49N 119.87E 81 4.6b,3.5L
¶601668698
MAN III 09 18 16 01 18.26N 119.60E 68 4.5b,3.4L
¶601668699
ISC III 10 02 23 04.7–.99 10.4N–.20 126.6E–.20 44 3.8b 13 2-120
IDC III 10 02 23 00.1–.95 9.95N 125.20E 0 4.0,3.9 **¶17193596**
ISCJB III 10 02 23 02.7–.80 10.4N–.10 126.6E–.20 44 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
MAN III 10 18 26 36 19.29N 121.13E 2 4.7b,3.6L
¶601668704
MAN III 11 17 48 06 6.51N 127.04E 21 4.4b,3.2L
¶601668709
ISC III 12 10 13 04.6–.93 6.3N–.20 127.2E–.10 74 3.8b 11 2-123
MAN III 12 10 13 01 6.25N 127.13E 43 4.6b,3.5L **¶17194363**
ISCJB III 12 10 13 02.9–.85 6.3N–.10 127.1E–.20 74 3.7b,3.5L
IDC III 12 10 13 05.2–3.6 6.31N 127.01E 78–32 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.7km s-min=12.4km az=138.0.
IDC Error ellipse: s-maj=61.4km s-min=16.5km az=68.0.
ISC III 12 10 25 24.1–.93 6.1N–.20 127.0E–.20 83 4.3b 10 2-122
ISCJB III 12 10 25 22.4–.84 6.1N–.20 126.9E–.20 83 4.1b **¶17194368**
IDC III 12 10 25 22.7–5.6 5.73N 126.83E 84–35 4.3,4.0
MAN III 12 10 25 24 6.49N 126.95E 18 4.6b,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.5km s-min=13.0km az=41.0.
IDC Error ellipse: s-maj=66.6km s-min=38.0km az=18.0.
MAN III 15 20 42 44 9.90N 127.26E 53 4.8b,3.8s
¶601668727
ISC III 16 23 54 40.6–.87 20.3N–.10 120.3E–.40 26 3.9b 10 2-73
IDC III 16 23 54 37.0–.86 20.44N 120.41E 0 4.4s,4.4 **¶17196568**
ISCJB III 16 23 54 38.9–.74 20.36N–.09 120.3E–.30 26 4.3s,3.8b
ISC Event type ke.
ISCJB Event type ke.
MAN III 17 13 15 35 19.53N 120.42E 67 4.3b,3.2L
¶601668855
MAN III 18 08 02 51 7.80N 127.46E 14 4.5b,3.4L
¶601668866
ISC III 19 09 20 21.7–1.1 10.0N–.10 126.3E–.10 42 3.7b 8 1-86
IDC III 19 09 20 15.7–2.1 10.14N 126.46E 0 3.7,3.6 **¶17197168**
ISCJB III 19 09 20 19.7–.90 10.1N–.10 126.35E–.09 42 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 19 20 37 41.5–2.5 7.33N 127.08E 0 3.8s,3.8
¶17197323
IDC Error ellipse: s-maj=227.0km s-min=28.3km az=66.0.
ISC III 19 21 49 27.0–1.9 10.24N–.10 126.3E–.10 42 8 1-56
IDC III 19 21 49 07.1–2.7 8.33N 126.63E 0 3.7,3.5 **¶17197338**
MAN III 19 21 49 40 9.71N 125.69E 17 4.2b,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=238.9km s-min=21.9km az=67.0.
ISC III 19 22 00 30.3–.80 5.5N–.10 127.2E–.20 66 3.8b 17 2-90
MAN III 19 22 00 33 5.26N 126.55E 32 4.7b,3.6L **¶17197339**
IDC III 19 22 00 35.2–3.0 5.51N 126.73E 108–22 3.9,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=100.4km s-min=12.3km az=69.0.
ISC III 20 08 26 11.1–.26 19.08N–.02 121.31E–.03 40–2 5.8b,5.6s 1635 1-176
MOS III 20 08 26 08.4–.91 18.93N 121.44E 33 6.0b,5.6s **¶16339575**
NEIC III 20 08 26 09.6–.11 18.99N 121.25E 27 6.0W,5.9W
GCMT III 20 08 26 10.7–.10 19.16N 120.99E 50–0 6.0W,5.9W
NEIC III 20 08 26 11.0–.00 19.01N 121.26E 36 6.0W,5.9W
ISCJB III 20 08 26 11.4–.28 19.09N–.01 121.27E–.02 50–2 5.7b,5.6s
BJI III 20 08 26 11.7 19.29N 121.19E 32 5.8b,5.7L
MAN III 20 08 26 12 19.06N 121.28E 39 6.1s,6.0b
IDC III 20 08 26 12.3–1.9 18.98N 121.41E 50–16 5.5s,5.5
KLM III 20 08 26 14.3 19.10N 121.35E 79 6.3s,6.1L
BKK III 20 08 26 15.5–.70 19N–3.0 121E–3.0 66–6 6.7,6.1b
NEIC III 20 08 26 25.3–.00 19.37N 122.20E 37 6.7,6.1b
ISC Event type fe.
MOS Error ellipse: s-maj=7.1km s-min=4.1km az=108.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=3.0km az=97.0. Felt [V PIVS] at Pagudpud and Pasuquin; [IV PIVS] at Aparri, Paoay and on Calayan Island; [III PIVS] at Camalaniugan, Gonzaga, Manila and Sinait. Felt in much of northern Luzon. Also felt [III PIVS] at Basco, Batan Islands. Felt [III] in Hong Kong and [II] at Shenzhen, China. Also felt [III] at Kaohsiung, Taiwan. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}8.56 $M_{\theta\theta}$-1.54 $M_{\phi\phi}$-7.03 $M_{r\theta}$-1.33 $M_{\theta\phi}$-0.55 $M_{\phi r}$0.12 Best double couple: NP1:ϕ_s358.00000° ,δ45.00000°,λ80.00000°. NP2:ϕ_s193.00000°,δ46.00000°,λ100.00000°. Principal axes: T 8.7300,Plg83.0000°,Azm185.0000°; N -1.6600,Plg7.0000°,Azm6.0000° ; P -7.0800,Plg0.0000°,Azm276.0000° M_o8.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c290; s132,c419;Duration: 2s3 Moment tensor: Scale 10^{18} Nm; M_{rr}0.95±.01 $M_{\theta\theta}$0.24±.01; $M_{\phi\phi}$-0.71±.01; $M_{r\theta}$-0.15±.01; $M_{\theta\phi}$-0.49±.01; $M_{\phi r}$-0.41±.01; Best double couple: NP1:ϕ_s207.00000°,δ57.00000°,λ84.00000°. NP2:ϕ_s38.00000° ,δ33.00000°,λ99.00000°. Principal axes: T 1.0480,Plg77.0000°,Azm98.0000° ; N 0.0650,Plg5.0000°,Azm210.0000°; P -1.1120,Plg12.0000°,Azm301.0000° M_o1.08000×10^{18}
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s207.00000°,δ62.00000° ,λ87.00000°. NP2:ϕ_s32.00000°,δ28.00000°,λ95.00000°. Principal axes: T 1.1700,Plg72.0000°,Azm111.0000°; N -0.0700,Plg2.0000°,Azm208.0000° ; P -1.1000,Plg17.0000°,Azm299.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=5.8.
MAN Event type fe. INTENSITY V - PASUQUIN & PAGUDPUD ILOCOS NORTE; INTENSITY IV - PAOAY ILOCOS NORTE; CALAYAN ISLAND; APARRI CAGAYAN; INTENSITY III - BASCO BATANES; SINAIT ILOCOS SUR.
IDC Error ellipse: s-maj=9.6km s-min=7.6km az=75.0.
NEIC Event type se. Moment Tensor Solution. s63 Moment tensor: Scale 10^{17}Nm; M_{rr}9.05 $M_{\theta\theta}$-2.18 $M_{\phi\phi}$-6.86 $M_{r\theta}$-0.95 $M_{\theta\phi}$-3.98 $M_{\phi r}$3.23 Best double couple: NP1:ϕ_s223.00000° ,δ39.00000°,λ111.00000°. NP2:ϕ_s16.00000°,δ54.00000°,λ73.00000°. Principal axes: T 9.9400,Plg75.0000°,Azm236.0000°; N -0.4900,Plg13.0000°,Azm26.0000° ; P -9.4400,Plg7.0000°,Azm118.0000° M_o9.70000×10^{17}
ISC III 20 23 44 11.8–.85 12.49N–.09 126.3E–.10 41 4.0b 16 2-77
IDC III 20 23 44 05.8–.84 12.60N 126.54E 0 4.1,4.0 **¶17197580**
ISCJB III 20 23 44 09.8–.63 12.49N–.06 126.31E–.08 41 3.9b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 01 06 12.0–2.5 10.10N–.06 126.32E–.08 17–15 3.4b 21 1-56
IDC III 22 01 06 10.0–1.6 9.79N 125.37E 0 3.5,3.4 **¶17197894**
ISCJB III 22 01 06 11.4–1.8 10.15N–.05 126.43E–.06 19–12 3.3b,3.4

MAN III 22 01 06 15 10.04N 126.19E 12 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=164.6km s-min=20.2km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=7.2km az=150.0.
ISC III 22 02 45 05.1–3.9 10.07N–.06 126.41E–.07 17–24 3.6b 24 1-120
IDC III 22 02 45 02.4–.89 10.05N 126.27E 0 4.0,3.8b **¶17197902**
ISCJB III 22 02 45 05.1–1.7 10.10N–.05 126.44E–.06 24–12 3.7b,3.8b
MAN III 22 02 45 08 10.04N 126.19E 13 4.4b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=55.2km s-min=20.6km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.5km az=145.2.
MAN III 23 12 27 53 10.00N 127.14E 10 4.6b,3.5L
¶601668900
IDC III 25 22 07 52.7–5.5 6.28N 127.07E 107–44 3.8,3.5
¶17198564
IDC Error ellipse: s-maj=104.9km s-min=23.9km az=62.0.
ISC III 26 00 04 42.6–.54 6.23N–.08 127.34E–.08 35 4.2b 44 1-123
ISCJB III 26 00 04 41.1–.41 6.23N–.06 127.36E–.05 35 4.1b,3.4s **¶16480940**
MAN III 26 00 04 45 6.30N 127.09E 22 4.7b,3.6L
IDC III 26 00 04 47.0–2.4 6.21N 127.09E 75–22 4.1,3.9
NEIC III 26 00 04 47.4–1.2 6.19N 127.06E 78–11 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.3km az=36.2.
IDC Error ellipse: s-maj=22.9km s-min=11.0km az=80.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=6.7km az=80.0.
ISC III 26 20 52 06.6–2.7 10.55N–.08 126.3E–.10 23–18 14 1-56
MAN III 26 20 52 08 10.47N 126.28E 26 4.6b,3.5L **¶601668928**
ISC Event type ke.
ISC III 27 18 16 05.2–1.0 5.4N–.20 128.0E–.20 35 3.7b 14 2-60
IDC III 27 18 15 59.9–1.1 5.43N 128.23E 0 3.8,3.7 **¶17198826**
ISCJB III 27 18 16 03.0–.86 5.4N–.10 128.2E–.20 33 4.1s,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 06 43 30.5–1.1 7.53N–.04 127.54E–.05 33–4 4.7b,3.5s 175 1-156
MAN IV 02 06 43 27 7.47N 127.67E 33 5.0b,4.2s **¶16403576**
IDC IV 02 06 43 28.0–4.1 7.53N 127.56E 19–25 4.7L,4.4
ISCJB IV 02 06 43 29.4–.73 7.51N–.03 127.51E–.04 39–6 4.6b,3.5s
BJI IV 02 06 43 31.1 7.46N 127.44E 55 5.0b,4.8b
NEIC IV 02 06 43 33.9–.92 7.50N 127.44E 64–8 4.7b,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=18.2km s-min=10.6km az=85.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=4.1km az=159.6.
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=4.4km az=74.0. Felt at Valencia, Mindanao.
ISC IV 02 18 45 37.5–1.1 15.93N–.05 122.19E–.08 39 3.2b 18 1-49
IDC IV 02 18 45 30.1–1.8 16.48N 123.37E 0 3.6s,3.6 **¶17199563**
ISCJB IV 02 18 45 35.4–.78 16.01N–.05 122.41E–.09 39 3.6s,3.2b
MAN IV 02 18 45 36 15.88N 121.87E 21 4.5b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=73.3km s-min=23.6km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=5.8km az=158.5.
ISC IV 03 02 01 06.7–1.4 13.59N–.05 119.96E–.07 46–14 4.3b,3.4s 67 1-151
MAN IV 03 02 01 04 13.60N 119.88E 26 4.6b,3.5L **¶16506164**
IDC IV 03 02 01 05.4–6.0 13.73N 120.25E 33–46 4.2,4.1
ISCJB IV 03 02 01 06.2–.64 13.58N–.04 120.01E–.06 59–7 4.3b,3.5s
NEIC IV 03 02 01 08.0–2.0 13.71N 120.24E 60–18 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=10.7km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.0km az=24.6.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=64.0.
ISC IV 03 23 53 30.1–.48 19.05N–.06 121.12E–.05 46 4.2b 72 1-88
BKK IV 03 23 53 08.2–2.1 20N–13 123E–22 10 4.7b,4.4b **¶16455838**
ISCJB IV 03 23 53 28.9–.32 19.07N–.03 121.14E–.04 46 4.2b,3.3s
NEIC IV 03 23 53 28.6–1.1 18.73N 121.27E 51–10 4.4b,3.3s
MAN IV 03 23 53 30 18.86N 121.14E 10 5.1b,4.3s
IDC IV 03 23 53 31.1–3.6 18.73N 121.29E 75–34 4.2,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.6km s-min=4.0km az=177.9.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=7.8km az=143.0. Felt [II PIVS] at Camalaniugan and Claveria.
MAN Event type fe. INTENSITY II - CLAVERIA & CALAMANIUGAN CAGAYAN.
IDC Error ellipse: s-maj=19.4km s-min=12.7km az=70.0.
ISC IV 04 00 19 24.1–1.2 10.15N–.09 126.4E–.10 42 3.6b 9 1-86
MAN IV 04 00 19 17 9.98N 126.65E 5 4.3b,3.2L **¶17199720**
IDC IV 04 00 19 20.1–1.8 9.69N 124.99E 0 3.9,3.8
ISCJB IV 04 00 19 22.2–1.1 10.14N–.09 126.5E–.10 42 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 08 35 31.8–.93 6.98N–.08 127.05E–.10 60 3.8b 13 1-88
IDC IV 06 08 35 24.4–1.0 7.04N 127.36E 0 4.0,3.9b **¶17199988**
ISCJB IV 06 08 35 30.2–.75 6.95N–.07 127.13E–.08 60 3.8b,3.4s
MAN IV 06 08 35 33 7.29N 126.75E 5 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=28.0km s-min=18.6km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=8.6km az=136.9.
ISC IV 08 16 15 04.6–2.0 15.39N–.10 122.7E–.10 35 3.2b 10 1-46
IDC IV 08 16 15 08.3–3.5 14.35N 123.27E 0 3.5,3.3 **¶17200260**
MAN IV 08 16 15 09 15.23N 122.31E 30 4.1b,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=290.6km s-min=29.2km az=63.0.
ISC IV 08 18 28 19.4–.60 6.01N–.07 127.24E–.08 35 4.3b 55 1-123
IDC IV 08 18 28 14.5–.80 6.10N 127.35E 0 4.6L,4.4 **¶16706084**
ISCJB IV 08 18 28 18.5–.45 5.94N–.04 127.31E–.05 35 4.3b,3.8s
NEIC IV 08 18 28 20.4–1.4 6.02N 127.14E 42–12 4.4b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=27.8km s-min=14.2km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.1km az=143.9.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=7.8km az=59.0.
MAN IV 10 14 28 31 17.73N 119.77E 10 4.6b,3.4L
¶601668999
MAN IV 10 22 01 29 15.71N 122.11E 26 4.2b,3.0L
¶601669000
MAN IV 11 11 31 13 7.80N 127.08E 16 4.5b,3.4L
¶601669001
ISC IV 12 06 28 07.9–1.1 12.4N–.10 126.0E–.20 36 3.8b 8 2-54
IDC IV 12 06 28 02.8–1.0 12.24N 125.44E 0 3.9,3.8 **¶17200741**
ISCJB IV 12 06 28 05.0–1.0 12.54N–.10 126.1E–.10 36 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 08 02 35.9–.79 20.34N–.08 120.0E–.20 35 3.7b 17 2-87
IDC IV 12 08 02 31.0–.76 20.38N 120.21E 0 4.0,3.8 **¶17200760**
ISCJB IV 12 08 02 34.4–.50 20.36N–.05 120.1E–.10 35 3.8b,3.7s
MAN IV 12 08 02 34 20.27N 119.98E 40 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=15.6km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=5.4km az=157.0.
MAN IV 12 10 42 00 15.43N 122.22E 32 4.2b,3.0L
¶601669006
IDC IV 12 15 47 32.6–1.9 13.20N 125.78E 0 3.4,3.3b
¶17200787
IDC Error ellipse: s-maj=80.9km s-min=25.8km az=62.0.
ISC IV 14 04 52 43.3–1.3 7.7N–.10 127.2E–.10 35 3.4b 9 1-122
MAN IV 14 04 52 41 7.62N 127.15E 15 4.5b,3.4L **¶17200986**
ISCJB IV 14 04 52 43.2–.92 7.73N–.09 127.17E–.06 35 3.5b,3.4L
IDC IV 14 04 52 57.1–2.1 7.69N 126.74E 160–22 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=8.6km az=1.2.
IDC Error ellipse: s-maj=50.4km s-min=21.3km az=83.0.
MAN IV 14 06 19 43 18.01N 119.10E 27 4.5b,3.3L
¶601669017
IDC IV 15 10 36 40.3–1.1 20.53N 120.40E 0 3.7,3.5b
¶17201121

IDC Error ellipse: s-maj=76.0km s-min=20.8km az=66.0.
ISC IV 15 22 15 23.9–1.2 18.5N–.30 119.7E–.30 35 3.6b 7 1-46
IDC IV 15 22 15 19.8–2.1 18.11N 118.91E 0 3.9s,3.9 **¶17201173**
ISCJB IV 15 22 15 22.1–.86 18.4N–.20 119.6E–.20 33 3.7s,3.5b
ISC Event type ke.
ISCJB Event type ke.
MAN IV 17 13 09 31 19.16N 121.34E 13 4.1b,2.9L
¶601669034
ISC IV 17 23 24 50.5–.75 8.86N–.07 127.02E–.10 38 4.0b 20 2-95
IDC IV 17 23 24 45.5–1.1 8.93N 126.83E 0 4.1L,3.7 **¶16532036**
ISCJB IV 17 23 24 48.4–.67 8.90N–.07 127.09E–.07 38 3.9b,3.7
NEIC IV 17 23 24 51.5–1.9 8.88N 126.80E 45–21 4.3b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=33.2km s-min=18.8km az=94.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.1km az=41.5.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=13.9km az=77.0.
ISC IV 19 05 30 37.6–.43 19.03N–.03 121.19E–.04 32–3 4.7b,4.1s 317 1-173
IDC IV 19 05 30 31.6–.42 18.93N 121.30E 0 4.5,4.4 **¶16449045**
MAN IV 19 05 30 32 19.41N 121.06E 19 5.8b,5.3s
BKK IV 19 05 30 33.6–.90 19N–6.0 122E–10 10 5.0b,4.6b
ISCJB IV 19 05 30 36.3–.16 19.14N–.02 121.24E–.03 30 4.6b,4.1s
NEIC IV 19 05 30 37.7–.60 18.91N 121.32E 40–5 4.8b,4.1s
GCMT IV 19 05 30 37.7–.30 19.06N 120.95E 46–1 5.0W,4.1s
MOS IV 19 05 30 38.1–1.0 18.95N 121.37E 62 4.8b,4.1s
BJI IV 19 05 30 40.9 19.40N 120.89E 31 4.9b,4.7L
KLM IV 19 05 30 49.0 18.72N 121.37E 156 5.6s,4.9b
ISC Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=10.6km az=85.0.
MAN Event type fe. INTENSITY V - CALAYAN CAGAYAN; INTENSITY III - CLAVERIA CAGAYAN; INTENSITY II - PASUQUIN SARRAT BATAC ILOCOS NORTE; LAOAG CITY.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.3km az=7.2.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.8km az=106.0. Felt [V PIVS] at Calayan, [III PIVS] at Claveria and [II PIVS] at Batac, Laoag, Pasuquin and Sarrat. Also felt at Pagudpud.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c50; s63,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.06±.23 $M_{\theta\theta}$-0.24±.14; $M_{\phi\phi}$-2.82±.16; $M_{r\theta}$-1.54±.10; $M_{\theta\phi}$-1.86±.08; $M_{\phi r}$-0.98±.14; Best double couple: NP1:ϕ_s223.00000° ,δ60.00000°,λ109.00000°. NP2:ϕ_s10.00000°,δ35.00000°,λ62.00000°. Principal axes: T 3.6760,Plg69.0000°,Azm173.0000°; N 0.4700,Plg16.0000°,Azm34.0000° ; P -4.1500,Plg13.0000°,Azm300.0000° M_o3.91300×10^{16}
MOS Error ellipse: s-maj=9.3km s-min=5.4km az=96.7.
ISC IV 20 19 53 20.7–.57 5.19N–.06 127.84E–.08 35 4.3b,3.4s 66 2-124
ISCJB IV 20 19 53 18.5–.35 5.15N–.03 127.93E–.05 35 4.3b,3.5s **¶16596712**
IDC IV 20 19 53 21.6–1.8 5.00N 127.73E 50–15 4.2,4.0b
NEIC IV 20 19 53 22.2–1.3 4.97N 127.65E 56–11 4.5b,4.0b
MAN IV 20 19 53 23 5.16N 127.58E 32 5.0b,4.1s
DJA IV 20 19 53 26.4–.60 5N–4.0 128E–4.0 44–7 5.0b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
MAN IV 21 17 04 35 8.69N 127.21E 19 4.6b,3.4L
¶601669050
ISC IV 21 20 48 32.8–.51 20.77N–.04 122.17E–.07 35 4.1b,3.2s 59 2-86
IDC IV 21 20 48 27.4–.68 20.65N 121.99E 0 4.3L,4.1 **¶16596722**
JMA IV 21 20 48 28.4–.40 20.99N 122.04E 0 4.4,4.1
NEIC IV 21 20 48 29.1–.50 20.75N 122.09E 10 4.8b,4.1
ISCJB IV 21 20 48 30.7–.30 20.80N–.03 122.23E–.05 35 4.1b,3.0s
MAN IV 21 20 48 31 20.47N 122.27E 2 4.8b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=15.3km az=74.0.
JMA Error ellipse: s-maj=3.3km s-min=2.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=8.4km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=2.9km az=21.3.
ISC IV 22 01 13 59.7–.84 20.7N–.10 122.1E–.20 40 3.7b 13 22-86
IDC IV 22 01 13 54.0–.89 20.74N 122.20E 0 3.9,3.9 **¶16577858**
NEIC IV 22 01 13 55.5–.50 20.73N 122.18E 10 4.2b,3.9
ISCJB IV 22 01 13 57.9–.72 20.7N–.10 122.1E–.20 40 3.8b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 22 13 59 07.9–1.1 19.35N–.07 121.21E–.10 10 3.4b 16 1-87
IDC IV 22 13 59 04.4–1.1 19.17N 121.71E 0 3.6,3.4b **¶17201818**
ISCJB IV 22 13 59 07.1–.83 19.36N–.05 121.16E–.09 10 3.3b,3.4b
MAN IV 22 13 59 08 19.37N 121.19E 21 5.2b,4.4s
ISC Event type ke.
IDC Error ellipse: s-maj=73.2km s-min=20.8km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.1km az=162.7.
ISC IV 23 03 06 10.4–.74 19.63N–.03 121.76E–.05 28–5 4.5b,3.7s 163 1-151
MAN IV 23 03 06 09 19.58N 121.55E 8 5.2b,4.3s **¶16476059**
ISCJB IV 23 03 06 09.4–.99 19.71N–.02 121.76E–.05 31–7 4.4b,3.7s
NEIC IV 23 03 06 09.9–1.4 19.65N 121.78E 24–10 4.6b,3.7s
MOS IV 23 03 06 12.5–1.1 19.70N 121.83E 60 4.9b,3.7s
BJI IV 23 03 06 13.3 19.96N 121.57E 33 4.7b,4.6b
IDC IV 23 03 06 13.9–2.5 19.67N 121.88E 59–23 4.6L,4.3
ISC Event type fe.
MAN Event type fe. INTENSITY V - CALAYAN CAGAYAN.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.5km az=4.3.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=95.0. Felt [V PIVS] at Calayan, Luzon.
MOS Error ellipse: s-maj=12.0km s-min=6.0km az=102.5.
IDC Error ellipse: s-maj=16.8km s-min=11.8km az=76.0.
MAN IV 23 12 42 39 17.60N 119.82E 7 4.4b,3.2L
¶601669065
MAN IV 23 17 11 05 8.87N 127.20E 10 4.7b,3.6L
¶601669066
MAN IV 24 16 17 03 10.59N 126.14E 68 4.5b,3.4L
¶601669070
ISC IV 26 03 16 25.9–.83 20.46N–.03 120.13E–.05 23–6 4.4b,3.7s 155 2-98
NIED IV 26 03 16 00 20.60N 120.30E 71 4.9W,3.7s **¶16459956**
BKK IV 26 03 16 20.6–1.4 21N–16 121E–12 10 5.0b,4.5b
IDC IV 26 03 16 22.6–.53 20.37N 120.28E 0 4.3,4.2
BJI IV 26 03 16 23.3 20.67N 120.06E 6 4.6b,4.5b
MAN IV 26 03 16 25 20.40N 120.11E 32 5.3b,4.5s
ISCJB IV 26 03 16 25.5–1.0 20.46N–.02 120.29E–.03 30–8 4.4b,3.7s
NEIC IV 26 03 16 27.8–.25 20.43N 120.16E 35 4.7b,3.7s
JMA IV 26 03 16 28.5–.40 20.60N 120.28E 85 4.1,3.7s
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s44.00000°,δ39.00000°,λ91.00000°. NP2:ϕ_s222.00000°,δ51.00000°,λ89.00000°. M_o2.40000×10^{16}
IDC Error ellipse: s-maj=17.7km s-min=12.5km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.7km az=16.3.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.6km az=111.0.
JMA Error ellipse: s-maj=3.3km s-min=4.2km az=-1.0.
ISC IV 26 12 46 51.9–1.5 9.2N–.10 127.3E–.10 10 3.5b 10 2-53
MAN IV 26 12 46 46 9.39N 127.44E 17 4.4b,3.2L **¶17202137**
ISCJB IV 26 12 46 48.9–1.2 9.4N–.10 127.28E–.07 10 3.5b,3.2L
IDC IV 26 12 46 50.3–1.7 9.29N 127.40E 0 4.6L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=10.6km az=5.8.
IDC Error ellipse: s-maj=43.1km s-min=25.6km az=79.0.
ISC IV 28 06 03 10.6–2.3 18.7N–.10 119.9E–.10 7–13 3.8b 14 1-88
IDC IV 28 06 03 09.4–1.2 18.74N 120.01E 0 4.1,3.9b **¶17202283**
MAN IV 28 06 03 13 18.71N 120.06E 2 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=77.3km s-min=23.6km az=68.0.
ISC IV 28 08 05 34.4–.69 18.57N–.08 119.81E–.10 24 4.7s,4.0b 16 1-95
MAN IV 28 08 05 28 18.79N 119.47E 11 5.0b,4.0s **¶17202288**
IDC IV 28 08 05 30.8–.78 18.67N 120.01E 0 4.6s,4.5
ISCJB IV 28 08 05 33.0–.56 18.71N–.07 119.74E–.10 24 4.6s,4.0b
ISC Event type ke.

ISCJB Event type ke.
ISC IV 28 21 52 23.1–1.8 18.78N–.04 119.99E–.08 6–12 3.8b 42 1-121
IDC IV 28 21 52 22.3–.63 18.78N 120.08E 0 4.0,3.9 ¶16577911
NEIC IV 28 21 52 26.6–3.3 18.78N 120.07E 29–23 4.4b,3.9
MAN IV 28 21 52 30 18.48N 120.08E 15 4.8b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=22.5km s-min=14.4km az=68.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.3km az=72.0.
ISC IV 29 13 08 31.0–.59 13.37N–.06 125.75E–.06 27 4.1b 33 2-116
IDC IV 29 13 08 27.4–.71 13.53N 125.90E 0 4.2,4.1 ¶17202386
ISCJB IV 29 13 08 29.4–.46 13.40N–.05 125.79E–.04 27 4.0b,4.1
MAN IV 29 13 08 30 13.38N 125.82E 32 5.1b,4.2s
ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=17.2km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.6km az=146.6.
MAN IV 29 13 54 45 19.22N 120.70E 16 4.5b,3.4L
¶601669088
MAN IV 29 20 02 30 17.74N 119.92E 7 4.6b,3.5L
¶601669090
ISC V 01 04 30 18.5–2.2 18.73N–.08 119.93E–.09 14–13 3.9b 19 1-88
IDC V 01 04 30 16.2–.88 18.78N 120.13E 0 4.1,3.9 ¶17202498
MAN V 01 04 30 20 18.80N 120.03E 6 4.7b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=70.8km s-min=16.4km az=66.0.
ISC V 01 21 21 33.0–.55 11.00N–.05 126.88E–.09 35 4.3b,2.7s 59 2-93
IDC V 01 21 21 27.9–.69 10.98N 126.90E 0 4.1,3.9 ¶16708530
ISCJB V 01 21 21 30.9–.35 11.01N–.04 126.96E–.05 33 4.2b,2.7s
NEIC V 01 21 21 32.8–.34 10.89N 126.84E 35 4.4b,2.7s
MAN V 01 21 21 34 10.91N 126.62E 15 4.7b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=14.7km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.3km az=14.8.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=6.3km az=76.0.
ISC V 01 22 24 04.3–.66 11.02N–.05 126.82E–.07 32–4 4.1b,2.9s 63 2-97
MAN V 01 22 24 02 10.96N 126.65E 3 4.6b,3.5L ¶16708538
ISCJB V 01 22 24 03.8–1.5 10.92N–.05 126.86E–.09 49–13 4.1b,3.1s
IDC V 01 22 24 03.6–.78 10.90N 126.88E 31–5 3.9,3.9
NEIC V 01 22 24 06.0–1.2 10.88N 126.85E 53–11 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=7.3km az=166.3.
IDC Error ellipse: s-maj=32.9km s-min=13.1km az=78.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=3.8km az=76.0.
ISC V 02 14 25 20.5–.77 5.99N–.04 127.04E–.06 94–6 4.5b 193 1-100
MOS V 02 14 25 12.0–1.1 6.00N 126.96E 33 4.9b ¶16489784
ISCJB V 02 14 25 18.6–.47 5.97N–.02 127.13E–.04 96–3 4.4b
MAN V 02 14 25 18 5.89N 127.10E 66 5.4b,4.6s
IDC V 02 14 25 20.3–1.5 5.95N 127.03E 93–13 4.3,4.1
DJA V 02 14 25 20.7–.60 6N–5.0 127E–4.0 71–5 5.6,5.4b
NEIC V 02 14 25 21.6–.97 5.98N 127.01E 107–9 4.6b,5.4b
KLM V 02 14 25 23.9 5.99N 126.82E 86 6.0s,4.7b
ISC Event type se.
MOS Error ellipse: s-maj=19.7km s-min=7.1km az=118.7.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.5km az=166.5.
IDC Error ellipse: s-maj=21.7km s-min=9.2km az=71.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.3km az=73.0.
IDC V 02 18 25 33.6–4.1 19.14N 122.04E 0 3.5,3.2
¶17202629
IDC Error ellipse: s-maj=328.7km s-min=26.6km az=61.0.
ISC V 03 15 31 17.1–1.7 7.44N–.07 127.0E–.10 61–15 3.2b 17 1-55
IDC V 03 15 31 07.8–1.7 7.76N 127.48E 0 4.2L,3.6 ¶17202690
ISCJB V 03 15 31 16.8–1.1 7.40N–.07 126.9E–.10 73–9 3.2b,3.6
MAN V 03 15 31 18 7.44N 126.86E 33 4.2b,3.1L
ISC Event type ke.
IDC Error ellipse: s-maj=46.6km s-min=27.5km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=10.4km az=157.5.
MAN V 04 21 45 43 13.83N 119.73E 75 4.0b,2.8L
¶601669114
ISC V 06 02 16 20.3–1.0 20.9N–.20 121.8E–.30 35 3.5b 8 30-86
IDC V 06 02 16 15.1–.88 20.95N 121.87E 0 3.7,3.6 ¶17202889
ISCJB V 06 02 16 18.4–.77 20.9N–.20 121.8E–.30 33 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 06 02 26 59.6–1.0 20.9N–.10 122.2E–.20 35 3.5b 8 8-115
IDC V 06 02 26 54.5–1.1 20.89N 122.18E 0 3.7,3.6 ¶17202890
ISCJB V 06 02 26 57.6–.78 20.9N–.10 122.2E–.20 33 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 06 16 20 23.1–1.1 9.51N–.09 127.2E–.20 41 3.8b 12 2-85
IDC V 06 16 20 24.0–7.6 9.46N 127.37E 50–70 4.2L,3.9 ¶17202935
MAN V 06 16 20 34 8.40N 126.35E 81 4.5b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=66.5km s-min=19.4km az=66.0.
ISC V 07 01 01 11.7–.92 5.5N–.10 127.6E–.20 53 3.8b 11 3-83
ISCJB V 07 01 01 09.8–.78 5.49N–.09 127.7E–.10 53 3.6b ¶17202963
IDC V 07 01 01 16.1–2.5 5.45N 127.24E 99–23 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=8.0km az=147.2.
IDC Error ellipse: s-maj=41.2km s-min=14.7km az=72.0.
MAN V 09 15 55 07 13.34N 119.99E 40 4.5b,3.3L
¶601669140
ISC V 10 06 10 38.5–.94 20.29N–.10 121.7E–.10 40 3.9b 22 4-86
ISCJB V 10 06 10 37.2–.68 20.34N–.06 121.7E–.10 40 3.9b,3.7s ¶17203182
JMA V 10 06 10 42.1–.70 20.63N 121.74E 21 3.9b,3.7s
IDC V 10 06 10 45.4–7.5 20.39N 121.80E 106–72 4.0,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=6.2km az=27.4.
JMA Error ellipse: s-maj=5.6km s-min=4.2km az=-1.0.
IDC Error ellipse: s-maj=35.4km s-min=14.6km az=69.0.
MAN V 10 08 05 49 7.45N 127.33E 137 4.1b,2.9L
¶601669148
ISC V 10 16 30 55.6–.97 20.66N–.10 122.4E–.20 35 3.3b 16 4-86
NIED V 10 16 30 00 21.00N 122.20E 29 4.4W ¶17203307
IDC V 10 16 30 50.3–.87 20.62N 122.29E 0 3.7,3.6
JMA V 10 16 30 52.7–.60 20.98N 122.15E 0 4.1,3.6
ISCJB V 10 16 30 53.8–.72 20.67N–.07 122.4E–.10 33 3.5b,3.2s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s155.00000°,δ71.00000°,λ13.00000°. NP2:ϕ_s60.00000°,δ78.00000°,λ161.00000°. M_o4.62000×10^{15}
ISCJB Event type ke.
MAN V 12 14 57 44 17.29N 119.72E 29 5.0b,4.0s
¶601669156
ISC V 13 20 48 00.5–1.9 13.04N–.09 125.7E–.20 28 3.4b 9 1-54
ISCJB V 13 20 47 58.7–1.4 13.08N–.06 125.8E–.10 28 3.4b ¶17203571
MAN V 13 20 47 59 13.06N 125.76E 32 4.4b,3.3L
IDC V 13 20 47 59.2–1.8 13.40N 125.57E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=7.5km az=166.5.
IDC Error ellipse: s-maj=77.7km s-min=21.5km az=60.0.
IDC V 14 10 55 35.0–1.2 19.87N 121.52E 0 3.6,3.4b
¶17203604
IDC Error ellipse: s-maj=76.8km s-min=24.2km az=68.0.
ISC V 14 15 12 04.6–1.2 10.4N–.10 126.4E–.20 44 3.6b 10 2-84
IDC V 14 15 11 59.3–1.8 10.23N 125.60E 0 3.6,3.5 ¶17203618
ISCJB V 14 15 12 02.5–.93 10.5N–.10 126.5E–.10 44 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC V 15 02 52 18.3–.99 17.63N–.07 119.12E–.09 35 3.6b 17 1-90
IDC V 15 02 52 13.0–1.0 17.47N 119.32E 0 3.8,3.6 ¶17203656
MAN V 15 02 52 15 17.68N 119.00E 30 4.6b,3.5L
ISCJB V 15 02 52 17.0–.75 17.63N–.06 119.10E–.06 33 3.6s,3.6b
ISC Event type ke.

ISCJB Event type ke.
MAN V 15 14 44 51 7.29N 127.42E 0 4.3b,3.1L
¶601669178
ISC V 15 20 48 58.1–1.8 5.8N–.20 127.1E–.30 35 3.3b 9 1-56
IDC V 15 20 48 53.0–1.4 5.15N 125.07E 0 3.6,3.4 ¶17203710
ISC Event type ke.
IDC Error ellipse: s-maj=56.7km s-min=19.5km az=85.0.
IDC V 16 22 13 17.2–3.1 18.55N 119.70E 0 3.7,3.6
¶17203778
IDC Error ellipse: s-maj=337.8km s-min=21.4km az=61.0.
ISC V 17 06 06 43.7–1.1 20.2N–.20 122.1E–.30 27 3.6b 8 18-86
IDC V 17 06 06 39.7–1.1 20.16N 122.05E 0 3.8,3.8L ¶17203791
ISCJB V 17 06 06 42.1–.00 20.2N–.10 122.0E–.20 27 3.5b,3.8L
ISC Event type ke.
ISCJB Event type ke.
MAN V 17 18 44 57 19.05N 121.18E 13 4.8b,3.8s
¶601669189
MAN V 19 15 07 45 13.19N 125.05E 53 4.7b,3.5L
¶601669194
ISC V 25 05 07 54.5–.55 20.10N–.04 121.61E–.08 40 4.0b,3.2s 54 2-100
IDC V 25 05 07 47.7–.64 19.97N 121.69E 0 4.3,4.1 ¶16710878
ISCJB V 25 05 07 53.7–.32 20.14N–.03 121.60E–.06 40 4.0b,3.3s
NEIC V 25 05 07 53.9–1.3 19.91N 121.59E 43–11 4.2b,3.3s
JMA V 25 05 07 54.2–.60 20.33N 121.78E 0 4.6,3.3s
MAN V 25 05 07 57 19.81N 121.46E 10 4.8s,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=14.3km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=3.0km az=18.7.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=10.2km az=62.0.
JMA Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.
ISC V 25 15 36 25.3–.82 20.9N–.10 121.3E–.20 60 3.6b 11 17-86
IDC V 25 15 36 17.6–.82 20.88N 121.33E 0 3.9,3.7 ¶17204455
ISCJB V 25 15 36 23.4–.65 20.89N–.09 121.3E–.20 60 3.7b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC V 26 02 12 27.7–1.0 19.26N–.06 121.13E–.08 32 3.8b 17 1-115
IDC V 26 02 12 22.1–4.0 19.18N 121.32E 0 4.1,3.9 ¶17204479
ISCJB V 26 02 12 26.4–.73 19.32N–.05 121.13E–.08 32 3.8b,3.9
MAN V 26 02 12 26 19.22N 121.15E 12 4.7b,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=149.1km s-min=43.6km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=6.6km az=173.0.
ISC V 26 02 16 48.5–2.0 19.31N–.06 121.22E–.07 13–13 3.9b 22 1-115
IDC V 26 02 16 45.9–.91 19.27N 121.55E 0 4.0,3.8 ¶17204480
MAN V 26 02 16 48 19.27N 121.09E 6 4.5b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=40.1km s-min=19.8km az=59.0.
ISC V 28 14 59 18.2–1.8 10.54N–.05 126.34E–.08 30–13 4.0b 37 1-118
IDC V 28 14 59 13.2–.67 10.38N 125.94E 0 4.3L,4.1 ¶17204638
MAN V 28 14 59 17 10.83N 126.32E 63 4.9b,3.8L
ISCJB V 28 14 59 19.1–1.2 10.72N–.04 126.29E–.08 46–10 4.0b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC V 31 23 23 41.4–.89 11.1N–.20 126.5E–.20 37 4.0b,2.5s 11 4-85
IDC V 31 23 23 36.0–.90 11.10N 126.49E 0 4.1,4.0b ¶17204855
ISCJB V 31 23 23 39.4–.72 11.1N–.10 126.5E–.10 37 3.9b,2.7s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 01 00 03 36.6–11 14.09N 118.74E 0 4.4L,4.0
¶17204856
IDC Error ellipse: s-maj=388.7km s-min=33.2km az=37.0.
ISC VI 01 12 43 55.8–2.1 20.14N–.07 121.1E–.10 18–10 3.8b 19 2-87
IDC VI 01 12 43 47.8–1.2 18.83N 121.21E 0 3.8,3.7b ¶17204889
MAN VI 01 12 43 52 20.20N 121.09E 16 5.0b,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=81.4km s-min=24.8km az=63.0.
ISC VI 03 13 45 29.3–2.5 19.85N–.05 120.38E–.07 6–16 4.0b,3.4s 47 2-87
IDC VI 03 13 45 28.6–.60 19.92N 120.41E 0 4.2,4.1 ¶16637617
NEIC VI 03 13 45 29.9–.35 19.89N 120.35E 10 4.5b,4.1
BJI VI 03 13 45 31.4 20.14N 120.13E 15 4.5b,4.4b
MAN VI 03 13 45 33 19.70N 120.34E 20 4.8b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=13.7km az=76.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=102.0.
ISC VI 05 04 38 18.0–1.2 10.32N–.05 126.11E–.09 70–12 3.8b 21 1-120
IDC VI 05 04 38 08.8–.92 10.33N 126.12E 0 3.9,3.7 ¶17205278
MAN VI 05 04 38 16 10.35N 126.09E 81 4.8b,3.7L
ISCJB VI 05 04 38 17.1–.83 10.31N–.04 126.11E–.08 79–8 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 07 08 34 00.4–1.0 10.42N–.04 126.17E–.06 69–9 4.4b 129 1-120
MAN VI 07 08 33 56 10.33N 126.30E 109 5.1b,4.6s ¶16577415
ISCJB VI 07 08 33 57.2–.68 10.40N–.03 126.27E–.05 60–6 4.4b,4.6s
NEIC VI 07 08 34 00.8–1.2 10.40N 126.21E 77–11 4.5b,4.6s
DJA VI 07 08 34 02.7–1.4 11N–8.0 126E–8.0 44–13 5.4,5.3b
IDC VI 07 08 34 02.0–2.7 10.31N 126.06E 88–25 4.3,4.0
ISC Event type fe.
MAN Event type fe. INTENSITY IV - SAN BENITO SIARGAO SURIGAO DEL NORTE; INTENSITY III - BURGOS SIARGAO SURIGAO DEL NORTE; INTENSITY II - SURIGAO CITY; SAN JOSE DINAGAT ISLAND; DAPA SIARGAO SURIGAO DEL NORTE; INTENSITY I - LORETO DINAGAT ISLAND.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.7km az=164.1.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.0km az=74.0. Felt [IV PIVS] at San Benito, [III PIVS] at San Isidro, [II PIVS] at Dapa, San Jose and Surigao and [I PIVS] at Loreto.
IDC Error ellipse: s-maj=21.7km s-min=9.8km az=77.0.
ISC VI 08 12 16 14.6–.62 20.79N–.07 119.8E–.10 25 3.7b,3.1s 25 3-87
IDC VI 08 12 16 10.8–.65 20.82N 119.81E 0 4.2L,4.0 ¶17205556
MAN VI 08 12 16 11 20.84N 119.66E 27 4.7b,3.6L
ISCJB VI 08 12 16 12.6–.51 20.77N–.05 119.77E–.10 25 3.8b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 09 08 40 03.7–1.1 17.69N–.06 119.4E–.10 21–6 3.5b 19 1-55
IDC VI 09 08 40 00.7–1.1 17.62N 119.52E 0 3.7,3.5b ¶17205607
MAN VI 09 08 40 02 17.81N 119.30E 29 4.6b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=19.6km az=69.0.
ISC VI 11 11 10 53.0–.60 19.27N–.03 121.46E–.09 46 3.6b,3.3s 38 1-115
IDC VI 11 11 10 45.1–.82 18.97N 121.42E 0 4.0,3.8L ¶16704928
NEIC VI 11 11 10 47.2–.42 18.97N 121.31E 15 3.8b,3.8L
MAN VI 11 11 10 49 19.17N 121.26E 3 5.1b,4.2s
ISCJB VI 11 11 10 51.4–.35 19.27N–.02 121.29E–.09 46 3.7b,3.3s
ISC Event type fe.
NEIC Event type fe. Felt [II PIVS] at Calayan.
MAN Event type fe. INTENSITY II - CALAYAN CAGAYAN.
ISCJB Event type fe.
MAN VI 13 12 45 39 15.52N 118.87E 35 4.9b,3.9s
¶601654155
JMA VI 15 13 05 00.0–.50 20.96N 122.89E 35 4.1
¶600641016
JMA Error ellipse: s-maj=4.4km s-min=2.1km az=-1.0.
ISC VI 16 12 43 54.4–.44 5.85N–.04 127.06E–.05 133–3 4.8b 308 1-147
BJI VI 16 12 43 50.2 5.43N 127.05E 135 5.0b,4.9b ¶16614741
KLM VI 16 12 43 51.7 5.99N 127.47E 135 6.5s,4.9b
ISCJB VI 16 12 43 53.1–.42 5.82N–.03 127.00E–.04 135–3 4.8b,4.9b
MAN VI 16 12 43 54 8.93N 127.03E 118 4.9b,3.8L
MOS VI 16 12 43 54.1–.95 5.82N 126.93E 144 5.0b,3.8L
IDC VI 16 12 43 54.1–.87 5.79N 127.04E 130–7 4.7,4.5
NEIC VI 16 12 43 55.2–.62 5.80N 126.96E 140–6 4.9b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=170.7.
MOS Error ellipse: s-maj=11.2km s-min=5.3km az=114.4.

IDC Error ellipse: s-maj=13.7km s-min=7.6km az=69.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.5km az=89.0.
IDC VI 17 17 21 16.3–1.6 20.55N 120.82E 0 4.0,3.8
¶17206401
IDC Error ellipse: s-maj=63.1km s-min=21.0km az=48.0.
ISC VI 20 12 18 37.6–2.1 6.11N–.09 127.44E–.09 7–12 3.9b 19 1-123
IDC VI 20 12 18 45.0–2.7 5.94N 127.15E 63–25 3.6,3.5 **¶17206597**
MAN VI 20 12 18 46 6.40N 127.13E 1 4.5b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=31.0km s-min=13.8km az=67.0.
MAN VI 20 16 34 53 19.14N 121.10E 1 4.4b,3.2L
¶601654508
ISC VI 21 22 13 25.0–1.3 10.08N–.05 126.19E–.09 65–12 3.9b 25 2-120
IDC VI 21 22 13 16.8–.92 10.09N 125.99E 0 4.0,3.9b **¶17206705**
ISCJB VI 21 22 13 24.6–.95 10.11N–.05 126.14E–.09 78–8 3.8b,3.9b
MAN VI 21 22 13 24 10.08N 125.84E 1 4.4b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=49.6km s-min=19.2km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=7.3km az=170.0.
ISC VI 25 14 09 44.5–.70 6.2N–.10 127.0E–.10 83 4.4b 31 2-122
ISCJB VI 25 14 09 42.5–.52 6.35N–.08 127.16E–.06 83 4.2b **¶16731441**
IDC VI 25 14 09 46.7–2.5 6.30N 126.98E 100–19 4.2,3.9
NEIC VI 25 14 09 46.9–1.7 6.31N 126.91E 105–13 4.5b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=6.4km az=34.7.
IDC Error ellipse: s-maj=38.0km s-min=11.0km az=69.0.
NEIC Event type se. Error ellipse: s-maj=31.1km s-min=9.2km az=71.0.
ISC VI 25 20 09 33.0–.70 20.71N–.05 121.5E–.10 43 3.7b 28 3-75
IDC VI 25 20 09 25.3–.80 20.75N 122.21E 0 3.9,3.7b **¶17206939**
MAN VI 25 20 09 31 20.87N 121.64E 60 4.7b,3.6L
ISCJB VI 25 20 09 33.1–.44 20.79N–.03 121.42E–.08 43 3.6b,3.0s
JMA VI 25 20 09 34.3–.70 20.94N 121.68E 0 3.6b,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=52.0km s-min=15.9km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=3.4km az=19.4.
JMA Error ellipse: s-maj=5.6km s-min=2.1km az=-1.0.
ISC VI 27 12 56 25.1–.67 8.04N–.06 127.33E–.08 35 3.8b 29 2-122
ISCJB VI 27 12 56 23.5–.56 8.06N–.06 127.35E–.05 35 3.9b **¶17207076**
MAN VI 27 12 56 24 7.46N 127.13E 137 4.6b,3.5L
IDC VI 27 12 56 31.6–2.2 8.14N 126.92E 91–21 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.8km az=146.9.
IDC Error ellipse: s-maj=26.5km s-min=12.9km az=87.0.
MAN VI 28 22 46 37 13.54N 119.91E 12 4.2b,3.0L
¶601655209
ISC VI 28 23 34 05.1–1.2 6.05N–.10 127.2E–.10 165–10 4.0b 24 1-123
ISCJB VI 28 23 34 04.8–.91 5.98N–.10 127.1E–.10 179–7 3.9b **¶17207156**
IDC VI 28 23 34 06.7–1.2 5.94N 127.00E 181–10 4.1,3.8
MAN VI 28 23 34 07 6.33N 127.23E 148 4.8b,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.2km s-min=13.2km az=154.4.
IDC Error ellipse: s-maj=31.2km s-min=10.9km az=69.0.
MAN VI 29 15 26 55 13.50N 119.99E 12 4.2b,3.0L
¶601655263
ISC VI 29 20 51 57.1–.42 13.49N–.03 125.40E–.04 34–1 5.0b,4.3s 546 2-167
IDC VI 29 20 51 51.7–.38 13.46N 125.36E 0 4.9,4.9 **¶16686680**
ISCJB VI 29 20 51 54.3–.81 13.50N–.02 125.37E–.02 25–5 5.0b,4.3s
MAN VI 29 20 51 54 13.56N 125.40E 35 5.8b,5.2s
MOS VI 29 20 51 55.5–.88 13.46N 125.34E 36 5.3b,4.4s
BJI VI 29 20 51 55.6 13.45N 125.37E 39 5.0b,4.8b
NEIC VI 29 20 51 56.5–1.4 13.47N 125.32E 31–9 5.1b,4.8b
GCMT VI 29 20 51 56.5–.10 13.64N 125.33E 16–0 5.2W,4.8b
KLM VI 29 20 51 58.2 13.67N 125.68E 96 5.5s,5.1b
DJA VI 29 20 52 02.4–.40 14N–2.0 125E–3.0 95–4 5.5,5.4b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c126; s113,c210;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.69±.02 $M_{\theta\theta}$0.41±.01; $M_{\phi\phi}$0.28±.01; $M_{r\theta}$0.33±.03; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$-0.07±.03; Best double couple: NP1:ϕ_s298.00000°,δ57.00000°,λ-104.00000°. NP2:ϕ_s143.00000°,δ35.00000°,λ-69.00000°. Principal axes: T 0.8170,Plg11.0000°,Azm39.0000° ; N -0.0340,Plg12.0000°,Azm306.0000°; P -0.7830,Plg74.0000°,Azm171.0000° $M_0$0.80000×10^{17}

(249) Luzon.

MAN I 01 14 18 58 17.41N 120.23E 25 4.5b,3.4L
¶601668366
MAN I 02 02 23 05 17.94N 120.53E 49 4.0b,2.8L
¶601668370
ISC I 03 14 54 43.1–1.3 14.9N–.10 119.8E–.10 36 3.3b 7 1-41
IDC I 03 14 54 41.1–4.3 14.43N 119.68E 0 3.7,3.6 **¶17189329**
ISCJB I 03 14 54 42.3–.83 14.84N–.09 119.81E–.09 36 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
MAN I 03 22 19 29 18.37N 120.88E 6 4.5b,3.3L
¶601668374
MAN Event type fe. INTENSITY II - LAOAG CITY; PASUQUIN ILOCOS NORTE.
MAN I 04 02 39 35 17.54N 122.41E 5 4.5b,3.3L
¶601668375
ISC I 04 06 51 02.1–1.3 12.07N–.04 122.17E–.04 6–9 3.8b 34 0-149
IDC I 04 06 51 01.4–.70 12.03N 122.22E 0 4.1,3.9 **¶16032743**
NEIC I 04 06 51 02.9–.42 12.01N 122.18E 10 4.3b,3.9
ISCJB I 04 06 51 03.8–.57 12.11N–.03 122.13E–.03 25–5 3.9b,3.9
MAN I 04 06 51 03 12.15N 122.09E 12 4.7b,3.6L
ISC Event type fe.
IDC Error ellipse: s-maj=38.3km s-min=15.4km az=66.0.
NEIC Event type fe. Error ellipse: s-maj=22.2km s-min=9.0km az=64.0. Felt [III PIVS] at Odiongan and [II PIVS] at Caticlan.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.5km az=136.8.
MAN Event type fe. INTENSITY III - ODIONGAN ROMBLON; INTENSITY II - CATICLAN AKLAN.
MAN I 05 12 36 04 18.53N 120.79E 33 4.0b,2.7L
¶601668379
MAN I 08 06 58 33 18.67N 120.71E 14 4.7b,3.6L
¶601668389
MAN I 09 05 51 28 18.33N 120.76E 31 3.9b,2.7L
¶601668397
MAN I 10 16 33 42 18.50N 120.60E 51 4.6b,3.5L
¶601668406
MAN I 11 21 11 12 18.29N 120.93E 30 4.5b,3.3L
¶601668414
MAN I 13 15 49 49 18.57N 120.77E 24 4.3b,3.1L
¶601668420
IDC I 14 01 39 13.0–1.2 15.23N 119.39E 0 3.6,3.4
¶17190120
IDC Error ellipse: s-maj=160.1km s-min=21.1km az=67.0.
MAN I 15 03 05 47 17.37N 120.37E 50 4.0b,2.8L
¶601668422
ISC I 16 19 20 58.8–1.1 15.2N–.20 119.4E–.20 31 3.7b 7 20-92
IDC I 16 19 20 54.2–.94 15.27N 119.52E 0 4.0L,3.9 **¶17190348**
ISCJB I 16 19 20 57.0–.89 15.3N–.20 119.4E–.20 31 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
MAN I 17 02 18 47 17.89N 120.65E 29 3.9b,2.7L
¶601668428
MAN I 17 19 11 26 16.10N 119.94E 23 4.1b,2.9L
¶601668430
IDC I 18 05 28 36.4–1.4 15.44N 119.87E 0 3.9,3.8
¶17190454
IDC Error ellipse: s-maj=70.6km s-min=19.7km az=56.0.
ISC I 18 19 19 04.1–1.2 15.61N–.09 119.54E–.08 31 3.4b 15 0-44
IDC I 18 19 19 02.4–2.0 15.13N 119.66E 0 3.6,3.3 **¶17190500**
ISCJB I 18 19 19 04.3–1.6 15.77N–.09 119.39E–.09 31 3.3b,3.3
MAN I 18 19 19 05 15.87N 119.61E 15 4.5b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=85.6km s-min=24.1km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=10.6km az=42.4.
ISC I 19 00 20 15.7–.00 15.3N–.20 119.6E–.20 31 3.7b 8 20-92
IDC I 19 00 20 11.1–.90 15.34N 119.69E 0 3.8,3.7 **¶17190516**
ISCJB I 19 00 20 13.5–.87 15.4N–.20 119.7E–.20 31 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 19 00 48 04.5–.60 15.07N–.08 119.41E–.07 39 4.1b 52 3-92
IDC I 19 00 47 59.2–.70 15.07N 119.21E 0 4.2L,4.1 **¶16151802**
ISCJB I 19 00 48 02.7–.34 15.07N–.05 119.27E–.06 39 4.2s,4.2b
NEIC I 19 00 48 04.1–.30 15.05N 119.30E 35 4.8b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=15.7km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.6km az=174.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.5km az=65.0.
MAN I 20 18 53 32 18.55N 121.03E 32 4.0b,2.7L
¶601668455
MAN I 20 19 06 14 15.19N 119.22E 20 4.4b,3.3L
¶601668456
MAN I 20 20 54 35 18.30N 120.40E 27 4.2b,3.0L
¶601668457
ISC I 21 00 55 22.4–.84 16.38N–.03 121.20E–.03 15–5 4.5b,3.5s 186 1-152
ISCJB I 21 00 55 20.1–.82 16.45N–.03 121.23E–.03 9–5 4.4b,3.5s **¶15947998**
BJI I 21 00 55 21.0 16.21N 121.27E 21 4.7b,4.4b
MAN I 21 00 55 22 16.42N 121.10E 8 5.1b,4.3s
MOS I 21 00 55 23.7–.90 16.46N 121.25E 37 4.7b,4.3s
NEIC I 21 00 55 24.4–1.8 16.46N 121.21E 28–12 4.6b,4.3s
IDC I 21 00 55 28.4–4.5 16.46N 121.23E 64–42 4.2,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=4.9km az=29.9.
MAN Event type fe. INTENSITY IV - BAYOMBONG NUEVA VISCAYA; INTENSITY III - SOLANO NUEVA VISCAYA; INTENSITY II - BAGUIO CITY; CAUAYAN CITY AND SANTIAGO ISABELA.
MOS Error ellipse: s-maj=14.2km s-min=6.1km az=123.0.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=113.0. Felt [IV PIVS] at Bayombong, [III PIVS] at Solano and [II PIVS] at Baguio City, Cauayan and Santiago. Also felt at Manila.
IDC Error ellipse: s-maj=19.0km s-min=12.6km az=74.0.
ISC I 21 06 56 06.4–1.0 15.3N–.10 119.2E–.10 22 3.7b 8 2-44
IDC I 21 06 56 02.0–1.2 15.21N 119.42E 0 4.7L,4.0 **¶17190664**
ISCJB I 21 06 56 04.2–.81 15.16N–.09 119.14E–.08 22 3.6b,4.0
ISC Event type ke.
ISCJB Event type ke.
MAN I 21 22 23 02 12.71N 123.04E 12 4.5b,3.4L
¶601668458
ISC I 22 10 18 17.3–.48 15.77N–.04 119.75E–.05 51–4 4.4b,3.7s 176 0-154
IDC I 22 10 18 09.4–.44 15.81N 119.59E 0 4.7L,4.3 **¶15957616**
MAN I 22 10 18 11 15.77N 119.30E 12 5.4b,4.7s
MOS I 22 10 18 13.3–1.2 15.76N 119.63E 39 4.8b,4.7s
ISCJB I 22 10 18 15.8–.31 15.79N–.02 119.77E–.04 56–3 4.4b,3.8s
NEIC I 22 10 18 15.0–.30 15.73N 119.67E 35 4.6b,3.8s
KLM I 22 10 18 18.2 15.70N 119.53E 65 4.8b,3.8s
BJI I 22 10 18 20.8 16.18N 119.62E 57 4.7b,4.4b
BKK I 22 10 18 21.0–.80 15N–5.0 120E–10 10 5.1b,4.4
ISC Event type fe.
MAN Event type fe. INTENSITY I - IBA ZAMBALES.
ISCJB Event type fe.
NEIC Event type fe. Felt [I PIVS] at Iba. Also felt at Manila.
MAN I 23 03 56 37 16.14N 121.57E 44 3.9b,2.6L
¶601668466
ISC I 23 17 00 46.7–1.6 17.93N–.05 120.12E–.08 24–11 3.9b 24 0-89
ISCJB I 23 17 00 45.3–1.3 17.94N–.04 120.03E–.07 21–8 3.9b **¶16019252**
MAN I 23 17 00 46 17.79N 120.10E 2 5.0b,4.0s
IDC I 23 17 00 50.5–6.2 17.68N 120.55E 67–58 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.3km az=177.9.
IDC Error ellipse: s-maj=30.4km s-min=14.7km az=72.0.
MAN I 26 20 48 06 18.23N 120.99E 31 4.3b,3.2L
¶601668469
MAN I 27 19 46 46 18.12N 120.61E 33 4.2b,3.0L
¶601668473
MAN I 30 05 19 34 16.68N 121.01E 28 4.2b,3.0L
¶601668486
MAN I 30 17 41 58 18.32N 120.07E 11 4.1b,2.9L
¶601668488
ISC I 30 21 55 04.0–1.4 15.02N–.03 119.65E–.07 23–11 4.1b,3.2s 60 1-92
IDC I 30 21 55 00.0–.63 15.01N 119.89E 0 4.1,4.0b **¶16136251**
NEIC I 30 21 55 05.5–1.0 14.94N 119.81E 38–10 4.3b,4.0b
MAN I 30 21 55 05 15.08N 119.59E 23 4.5b,3.4L
ISC Event type fe.
IDC Error ellipse: s-maj=41.2km s-min=14.0km az=63.0.
NEIC Event type fe. Error ellipse: s-maj=11.7km s-min=7.6km az=78.0. Felt [II PIVS] at Olongapo.
MAN Event type fe. INTENSITY II - OLONGAPO CITY.
MAN I 31 17 03 15 16.06N 122.00E 24 3.9b,2.7L
¶601668494
MAN I 31 19 15 16 17.81N 120.38E 22 4.3b,3.1L
¶601668495
MAN I 31 23 56 07 18.03N 120.49E 15 4.0b,2.7L
¶601668496
MAN II 01 15 48 59 17.82N 120.33E 32 4.2b,3.1L
¶601668500
MAN II 02 21 23 02 18.98N 120.65E 37 4.4b,3.2L
¶601668505
MAN II 03 17 57 06 17.20N 121.53E 17 4.5b,3.4L
¶601668507
MAN II 04 12 17 19 15.67N 121.11E 10 4.7b,3.6L
¶601668510
MAN Event type fe. INTENSITY II - PALAYAN CITY AND CABANATUAN CITY.
MAN II 05 17 17 37 16.87N 119.55E 20 4.7b,3.6L
¶601668514
MAN II 06 19 47 04 18.94N 120.92E 15 4.9b,3.9s
¶601668519
ISC II 08 21 01 10.5–.54 18.12N–.03 120.80E–.04 74–5 4.5b 179 0-151
MOS II 08 21 01 05.1–1.2 17.83N 121.08E 57 4.8b **¶16019919**
NEIC II 08 21 01 07.5–.71 17.83N 121.01E 62–7 4.5b
IDC II 08 21 01 09.0–2.2 17.85N 121.02E 75–21 4.3,4.1
ISCJB II 08 21 01 09.8–.21 18.12N–.02 120.89E–.03 80–2 4.3b,4.1
BJI II 08 21 01 09.4 18.31N 121.02E 50 5.0b,4.7L
MAN II 08 21 01 10 18.06N 120.82E 57 5.7b,5.3s
BKK II 08 21 01 21.1–2.7 18N–15 121E–14 155–26 4.9b,4.2
ISC Event type fe.
NEIC Event type fe. Felt [III PIVS] at Cabugao and Sinait; [II PIVS] at Batac, Burgos, Laoag, Pasuquin and Sarrat.
ISCJB Event type fe.
MAN Event type fe. INTENSITY III - SINAIT & CABUGAO ILOCOS SUR; INTENSITY II - BURGOS ILOCOS SUR; PASUQUIN ILOCOS NORTE; LAOAG CITY; BATAC AND SARRAT ILOCOS NORTE.
MAN II 09 00 43 55 17.79N 120.22E 31 4.1b,2.9L
¶601668536
MAN II 10 20 26 29 16.18N 119.70E 19 4.4b,3.2L
¶601668541
IDC II 11 10 10 54.2–15 17.00N 121.85E 0 3.8,3.7
¶17192070
IDC Error ellipse: s-maj=478.3km s-min=62.9km az=19.0.
MAN II 12 21 19 56 17.64N 120.42E 27 4.1b,2.9L
¶601668546
MAN II 12 21 59 26 17.60N 121.40E 32 4.3b,3.1L

¶601668547

MAN II 13 01 17 19 15.67N 121.11E 10 4.7b,3.6L

¶601668549

MAN II 13 18 45 49 14.77N 119.83E 22 4.4b,3.2L

¶601668552

ISC	**II**	**14 07 26 55.1–.44**	**14.83N–.04**	**119.44E–.05**	**10**	**4.3s,4.3b**	**62**	**1-153**
ISCJB	II	14 07 26 53.9–.32	14.78N–.04	119.34E–.04	10	4.3s,4.2b		¶16168853
IDC	II	14 07 26 53.3–.49	14.80N	119.68E	0	4.3,4.2s		
MAN	II	14 07 26 55	14.86N	119.42E	11	5.0b,4.0s		
BJI	II	14 07 26 57.9	14.85N	119.86E	21	4.9b,4.7s		
NEIC	II	14 07 26 58.5–.34	14.76N	119.61E	35	4.7b,4.7s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=5.1km az=35.8.
IDC Error ellipse: s-maj=27.8km s-min=11.3km az=69.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=7.7km az=70.0.

MAN II 14 17 44 12 18.45N 120.87E 32 4.0b,2.8L

¶601668553

MAN II 14 22 17 07 16.65N 119.78E 32 4.4b,3.3L

¶601668554

MAN II 15 17 57 10 15.70N 121.72E 41 4.4b,3.3L

¶601668557

MAN II 15 20 25 41 18.32N 121.01E 31 4.4b,3.2L

¶601668558

MAN II 17 03 54 50 16.46N 120.48E 16 4.6b,3.4L

¶601668563

MAN Event type fe. INTENSITY II - BAGUIO CITY.

MAN II 17 06 25 02 16.38N 120.53E 6 4.8b,3.7L

¶601668567

MAN II 17 06 25 53 16.61N 120.55E 15 4.4b,3.3L

¶601668564

MAN Event type fe.

MAN II 17 22 53 10 16.40N 120.49E 10 3.7b,2.4L

¶601668571

MAN II 18 18 46 23 12.90N 123.46E 16 4.4b,3.2L

¶601668573

ISC	**II**	**19 00 09 39.5–.55**	**14.34N–.04**	**120.55E–.05**	**139–5**	**4.5b**	**212**	**0-152**
MOS	II	19 00 09 26.3–1.0	14.27N	120.48E	33	5.0b		¶16032246
ISCJB	II	19 00 09 38.4–.25	14.32N–.03	120.70E–.04	143–2	4.4b		
MAN	II	19 00 09 39	14.31N	120.33E	111	5.1b,4.2s		
BJI	II	19 00 09 39.2	14.47N	120.66E	138	4.9b,4.6b		
IDC	II	19 00 09 40.2–3.0	14.32N	120.65E	146–28	4.5,4.2		
NEIC	II	19 00 09 40.7–.76	14.31N	120.67E	152–7	4.7b,4.2		
DJA	II	19 00 09 47.0–1.7	14N–8.0	121E–11	206–18	5.8b,5.3		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

MAN II 19 17 03 21 16.44N 120.38E 40 4.0b,2.8L

¶601668583

MAN II 19 19 38 02 16.44N 120.48E 12 3.9b,2.6L

¶601668585

ISC	**II**	**22 02 10 24.5–.29**	**14.12N–.03**	**120.60E–.03**	**140–2**	**5.2b**	**779**	**0-171**
BJI	II	22 02 10 17.6	13.68N	120.99E	132	5.2b,5.2b		¶16057291
ISCJB	II	22 02 10 23.6–.20	14.18N–.01	120.66E–.02	142–2	5.1b,5.2b		
MAN	II	22 02 10 23	14.15N	120.35E	102	5.4b,4.7s		
KLM	II	22 02 10 23.7	14.11N	121.01E	162	6.0s,5.4b		
MOS	II	22 02 10 23.4–.83	14.15N	120.66E	143	5.2b,5.4b		
GCMT	II	22 02 10 24.5–.30	14.16N	120.53E	138–4	5.2W,5.4b		
NEIC	II	22 02 10 24.5–.42	14.13N	120.65E	141–4	5.2b,5.4b		
IDC	II	22 02 10 24.7–.47	14.11N	120.65E	143–4	5.2,4.8		
BKK	II	22 02 10 28.0–.80	14N–4.0	121E–4.0	163–8	5.3b,5.3b		
DJA	II	22 02 10 29.2–1.2	14N–6.0	121E–4.0	189–10	5.5b,5.3b		

ISC Event type fe.
ISCJB Event type fe.
MAN Event type fe. INTENSITY IV - MANILA; DASMARINAS CAVITE; INTENSITY III - QUEZON CITY; PASAY CITY; PASIG CITY; MAKATI CITY; MUNTINLUPA CITY; MALABO CITY.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s13,c14; s86,c115;Duration: 1$\mathrm{s}0$ Moment tensor: Scale 10^{16}Nm; M_{rr}4.86±.37 $M_{\theta\theta}$-2.65±.39; $M_{\phi\phi}$-2.22±.46; $M_{r\theta}$3.29±.26; $M_{\theta\phi}$0.10±.37; $M_{\phi r}$-5.90±.31; Best double couple: NP1:ϕ_s149.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s321.00000° ,δ14.00000°,λ82.00000°. Principal axes: T 8.8990,Plg59.0000°,Azm62.0000° ; N -2.4570,Plg2.0000°,Azm329.0000°; P -6.4520,Plg31.0000°,Azm237.0000° $M_0$7.67600×10^{16}
NEIC Event type fe. Felt [IV PIVS] at Dasmarinas and Manila; [III PIVS] at Makati, Malabon, Malolos, Mariveles, Muntinlupa City, Pasay, Pasig, Quezon City, Subic and Tagaytay. Felt widely in southwestern Luzon. Felt [II PIVS] at Looc, Lubang Island and at Mamburao and San Teodoro, Mindoro.

ISC	**II**	**22 04 20 01.4–.81**	**14.12N–.05**	**120.5E–.10**	**137–7**	**3.7b**	**24**	**0-92**
IDC	II	22 04 19 56.0–13	14.14N	120.76E	84–133	3.8,3.6		¶17192672
ISCJB	II	22 04 20 00.3–.47	14.10N–.04	120.5E–.10	138–6	3.5b,3.6		
MAN	II	22 04 20 01	14.08N	120.46E	115	4.1b,2.9L		

ISC Event type ke.
IDC Error ellipse: s-maj=84.0km s-min=17.3km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=19.6km s-min=6.7km az=7.9.

ISC	**II**	**22 07 27 09.7–.98**	**17.0N–.20**	**119.8E–.30**	**10**	**3.5b**	**9**	**11-90**
MAN	II	22 07 26 25	17.13N	119.42E	1	4.8b,3.8s		¶17192684
ISCJB	II	22 07 27 08.0–.81	17.0N–.10	119.8E–.30	10	3.6b,2.7s		
IDC	II	22 07 27 08.2–.93	16.96N	119.80E	0	3.7,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.0km s-min=15.3km az=164.2.
IDC Error ellipse: s-maj=53.7km s-min=19.1km az=73.0.

MAN II 22 09 52 37 15.27N 121.24E 15 3.9b,2.7L

¶601668600

MAN II 22 12 42 23 12.72N 122.05E 22 4.0b,2.7L

¶601668599

MAN II 22 13 55 25 18.10N 120.79E 30 4.0b,2.8L

¶601668601

MAN II 22 23 22 10 14.06N 120.51E 123 4.1b,2.9L

¶601668603

MAN II 23 12 09 44 17.82N 120.67E 8 4.0b,2.8L

¶601668606

MAN II 23 15 15 21 16.00N 120.95E 7 4.0b,2.8L

¶601668607

MAN II 24 01 57 10 15.70N 121.72E 41 4.4b,3.3L

¶601668610

MAN II 24 08 25 53 16.61N 120.55E 15 4.4b,3.3L

¶601668614

MAN II 24 11 17 41 18.27N 120.94E 18 4.0b,2.8L

¶601668617

MAN II 26 20 36 34 17.37N 120.49E 32 4.0b,2.8L

¶601668623

MAN II 27 11 42 51 18.19N 120.83E 61 3.7b,2.5L

¶601668624

MAN II 27 11 44 13 17.13N 121.61E 44 4.2b,3.0L

¶601668625

MAN II 27 16 25 25 18.60N 121.82E 0 4.5b,3.4L

¶601668627

MAN II 28 00 24 25 18.35N 120.72E 15 4.1b,2.9L

¶601668629

IDC II 28 12 36 23.3–1.8 15.78N 120.10E 0 3.5,3.3

¶17192995

IDC Error ellipse: s-maj=81.7km s-min=23.5km az=53.0.

MAN II 28 13 11 33 13.24N 122.42E 20 4.3b,3.1L

¶601668630

ISC	**III**	**01 07 07 19.9–.63**	**15.30N–.06**	**119.34E–.06**	**31**	**4.2b**	**28**	**1-92**
IDC	III	01 07 07 14.9–.78	15.30N	119.43E	0	4.1,4.0b		¶16310104
MAN	III	01 07 07 17	15.32N	119.08E	25	4.8b,3.7L		
ISCJB	III	01 07 07 18.1–.43	15.26N–.05	119.15E–.05	31	4.1b,2.6s		
NEIC	III	01 07 07 20.2–.50	15.32N	119.59E	35	4.6b,2.6s		

ISC Event type se.
IDC Error ellipse: s-maj=49.1km s-min=16.5km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=6.3km az=144.3.
NEIC Event type se. Error ellipse: s-maj=22.4km s-min=10.4km az=62.0.

MAN III 01 13 35 35 17.43N 120.35E 41 4.0b,2.8L

¶601668636

MAN III 01 20 50 00 18.35N 120.83E 31 3.8b,2.5L

¶601668637

MAN III 02 09 12 05 17.77N 120.79E 32 3.8b,2.5L

¶601668638

ISC	**III**	**02 10 08 14.8–1.6**	**16.79N–.03**	**120.23E–.06**	**12–12**	**3.4b**	**26**	**1-47**
IDC	III	02 10 08 12.7–1.3	16.50N	120.15E	0	3.6,3.4		¶17193125
MAN	III	02 10 08 15	16.93N	120.04E	30	4.5b,3.4L		
ISCJB	III	02 10 08 17.0–.73	16.87N–.03	120.14E–.05	31–6	3.3b,2.5s		

ISC Event type ke.
ISCJB Event type ke.

IDC III 02 17 28 21.9–1.6 15.72N 119.83E 0 3.4,3.2

¶17193151

IDC Error ellipse: s-maj=70.5km s-min=23.5km az=57.0.

MAN III 03 10 42 57 16.12N 119.71E 30 3.9b,2.7L

¶601668642

MAN III 03 20 03 14 18.56N 120.89E 32 4.7b,3.6L

¶601668653

MAN III 03 22 36 44 18.68N 120.76E 21 4.3b,3.1L

¶601668659

MAN III 04 11 05 47 18.03N 122.27E 18 3.5b,2.2L

¶601668663

MAN III 04 11 06 07 18.23N 122.45E 35 4.4b,3.3L

¶601668666

MAN III 04 22 01 29 14.00N 120.11E 92 4.1b,2.9L

¶601668667

ISC	**III**	**06 10 22 17.9–.91**	**15.2N–.10**	**119.4E–.10**	**31**	**3.5b,3.4s**	**11**	**2-77**
IDC	III	06 10 22 12.6–.99	15.53N	119.94E	0	3.7,3.6		¶17193342
MAN	III	06 10 22 17	15.43N	119.26E	14	4.5b,3.4L		

ISC Event type ke.
IDC Error ellipse: s-maj=57.0km s-min=18.2km az=60.0.

ISC	**III**	**06 10 53 39.1–1.9**	**15.27N–.04**	**119.31E–.07**	**9–12**	**4.2b**	**35**	**1-119**
IDC	III	06 10 53 37.6–.79	15.26N	119.32E	0	4.5L,4.4		¶16314221
MAN	III	06 10 53 40	15.27N	119.17E	25	4.9b,3.9s		
NEIC	III	06 10 53 43.1–.55	15.24N	119.42E	35	4.6b,3.9s		

ISC Event type se.
IDC Error ellipse: s-maj=29.4km s-min=17.1km az=72.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=11.9km az=66.0.

ISC	**III**	**06 11 04 11.8–.56**	**15.33N–.06**	**119.23E–.08**	**31**	**4.2b**	**37**	**1-92**
MAN	III	06 11 04 06	15.33N	118.90E	14	5.2b,4.4s		¶16314222
IDC	III	06 11 04 07.3–.63	15.36N	119.31E	0	4.4L,4.2		
ISCJB	III	06 11 04 09.8–.36	15.32N–.04	119.19E–.05	31	4.2b,3.6s		
NEIC	III	06 11 04 12.2–1.6	15.36N	119.37E	35–15	4.5b,3.6s		

ISC Event type se.
IDC Error ellipse: s-maj=30.4km s-min=13.5km az=64.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.5km az=8.9.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=7.3km az=66.0.

MAN III 06 17 49 39 17.68N 121.30E 35 3.8b,2.5L

¶601668677

ISC	**III**	**07 01 02 50.6–.78**	**15.30N–.09**	**119.39E–.07**	**31**	**3.9b**	**22**	**1-92**
IDC	III	07 01 02 46.0–.79	15.38N	119.56E	0	4.5L,4.1		¶17193390
MAN	III	07 01 02 53	15.42N	119.45E	17	4.7b,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=31.4km s-min=16.8km az=63.0.

MAN III 07 01 55 04 18.29N 120.49E 50 4.2b,3.0L

¶601668678

ISC	**III**	**07 10 19 10.8–.89**	**15.27N–.07**	**119.31E–.10**	**39**	**3.5b**	**12**	**1-44**
IDC	III	07 10 19 04.6–1.2	15.30N	119.72E	0	3.8,3.6		¶17193406
MAN	III	07 10 19 05	15.26N	119.03E	8	4.7b,3.6L		
ISCJB	III	07 10 19 08.4–.87	15.19N–.07	119.2E–.10	39	3.4b,3.6L		

ISC Event type ke.
ISCJB Event type ke.

MAN III 07 15 10 16 17.00N 121.61E 29 4.2b,3.1L

¶601668680

MAN III 08 08 39 41 15.38N 120.71E 20 3.9b,2.7L

¶601668686

MAN III 08 14 09 49 17.61N 122.22E 9 4.8b,3.7L

¶601668688

MAN III 09 02 30 45 17.94N 120.26E 8 4.1b,2.9L

¶601668693

MAN III 09 16 52 42 18.07N 120.14E 11 4.3b,3.1L

¶601668697

ISC	**III**	**09 17 57 28.7–.42**	**18.78N–.03**	**121.41E–.03**	**70–3**	**4.8b**	**394**	**1-172**
MOS	III	09 17 57 23.5–1.1	18.64N	121.48E	46	5.1b		¶16295229
BJI	III	09 17 57 26.3	18.78N	121.39E	60	4.9b,4.9L		
MAN	III	09 17 57 26	19.92N	121.16E	35	5.6b,5.2s		
ISCJB	III	09 17 57 27.4–.30	18.79N–.02	121.38E–.02	71–3	4.7b,5.2s		
IDC	III	09 17 57 27.1–1.4	18.72N	121.47E	62–11	4.7,4.5		
GCMT	III	09 17 57 27.3–.20	18.84N	121.17E	56–2	5.3W,4.5		
NEIC	III	09 17 57 27.3–.56	18.70N	121.45E	61–5	4.9b,4.5		
BKK	III	09 17 57 40.7–2.4	19N–14	121E–13	155–18	4.9b,4.6b		

ISC Event type fe.
MAN Event type fe. INTENSITY II - LAOAG CITY; PASUQUIN ILOCOS NORTE; SARRAT ILOCOS NORTE.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c118; s85,c149;Duration: 1$\mathrm{s}0$ Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.03 $M_{\theta\theta}$0.22±.02; $M_{\phi\phi}$-0.56±.02; $M_{r\theta}$-0.58±.02; $M_{\theta\phi}$0.00±.02; $M_{\phi r}$0.60±.02; Best double couple: NP1:ϕ_s324.00000°,δ79.00000°,λ66.00000°. NP2:ϕ_s210.00000° ,δ26.00000°,λ154.00000°. Principal axes: T 1.0030,Plg50.0000°,Azm208.0000° ; N -0.0660,Plg23.0000°,Azm329.0000°; P -0.9360,Plg30.0000°,Azm73.0000° $M_0$9.97000×10^{17}
NEIC Event type fe. Felt [II PIVS] at Laoag, Pasuquin and Sarrat.

MAN III 10 01 16 57 18.07N 120.92E 89 3.7b,2.4L

¶601668701

ISC	**III**	**10 03 02 19.7–1.2**	**18.8N–.10**	**120.9E–.20**	**39**	**3.3b**	**6**	**1-88**
IDC	III	10 03 02 14.3–1.2	18.95N	121.24E	0	3.7,3.4		¶17193597
ISCJB	III	10 03 02 18.3–1.1	18.8N–.10	121.0E–.20	39	3.3b,3.4		

ISC Event type ke.
ISCJB Event type ke.

MAN III 10 13 32 55 18.40N 120.68E 33 3.5b,2.2L

¶601668702

MAN III 10 14 03 01 18.51N 120.81E 34 4.5b,3.4L

¶601668703

MAN III 10 22 11 05 15.39N 120.64E 24 3.6b,2.3L

¶601668705

MAN III 11 16 22 57 15.69N 119.71E 32 4.6b,3.5L

¶601668707

MAN III 13 14 59 42 16.04N 120.34E 68 4.3b,3.1L

¶601668716

MAN III 13 20 11 35 15.17N 120.31E 2 4.2b,3.0L

¶601668717

MAN III 14 09 45 57 17.83N 120.54E 32 3.5b,2.2L

¶601668719

MAN III 14 16 04 35 17.81N 120.60E 36 3.7b,2.4L

¶601668720

MAN III 14 16 52 20 15.65N 121.12E 33 3.9b,2.7L

¶601668721

MAN III 14 18 45 25 17.10N 121.93E 48 4.5b,3.4L

¶601668723

MAN III 14 20 21 34 18.37N 120.15E 21 4.5b,3.3L

¶601668724

MAN III 15 11 43 37 16.77N 119.61E 30 4.5b,3.4L

¶601668725

MAN III 16 08 05 07 18.42N 120.67E 30 4.0b,2.8L

¶601668728

MAN III 16 21 00 31 12.46N 123.62E 9 4.8b,3.7L

¶601668730

MAN Event type fe. INTENSITY III - MASBATE MASBATE.

MAN III 16 21 07 08 15.91N 119.87E 33 3.9b,2.6L ¶601668731
MAN III 17 14 37 30 18.77N 120.85E 18 4.3b,3.1L ¶601668856
MAN III 17 16 35 47 17.13N 121.47E 33 4.2b,3.0L ¶601668857
MAN III 17 17 51 06 13.06N 122.73E 22 4.4b,3.2L ¶601668858
MAN III 18 14 22 06 17.58N 120.81E 31 4.1b,2.9L ¶601668867
MAN III 18 23 35 59 18.15N 121.97E 15 3.7b,2.5L ¶601668868
ISC III 21 13 29 13.3–.73 13.76N–.04 123.36E–.04 22–6 4.0b 41 1-151
IDC III 21 13 29 09.4–.78 13.65N 123.36E 0 4.1,3.9b **¶16447665**
MAN III 21 13 29 13 13.81N 123.38E 20 5.5b,4.7s
NEIC III 21 13 29 14.7–1.8 13.63N 123.31E 35–17 4.0b,4.7s
ISC Event type fe.
IDC Error ellipse: s-maj=54.2km s-min=16.2km az=64.0.
MAN Event type fe. INTENSITY IV - NAGA CITY AND PILI.
NEIC Event type fe. Error ellipse: s-maj=25.0km s-min=9.5km az=67.0. Felt [IV PIVS] at Naga and Pili. Also felt at Camaligan, Daet and Magarao.
MAN III 21 19 42 59 13.26N 122.52E 23 4.4b,3.3L ¶601668890
ISC III 22 19 55 35.2–1.3 14.51N–.07 121.9E–.20 32 3.2b 9 1-40
IDC III 22 19 55 29.0–10 14.93N 122.32E 0 3.5,3.2b **¶17198061**
ISC Event type ke.
IDC Error ellipse: s-maj=331.2km s-min=31.4km az=38.0.
ISC III 23 17 37 29.8–.47 17.22N–.04 121.17E–.05 32 4.0b 46 1-89
IDC III 23 17 37 25.1–.63 17.12N 121.46E 0 4.2,4.0 **¶16480483**
MAN III 23 17 37 27 17.39N 121.01E 31 4.7b,4.3s
ISCJB III 23 17 37 29.1–.32 17.29N–.03 121.16E–.04 32 4.0b,3.0s
NEIC III 23 17 37 30.5–.89 17.09N 121.40E 40–9 4.2b,3.0s
ISC Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=14.0km az=78.0.
MAN Event type fe. INTENSITY III - TABUK KALINGA.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.0km az=171.9.
NEIC Event type fe. Error ellipse: s-maj=10.5km s-min=6.4km az=85.0. Felt [III PIVS] at Lubuagan, Tabuk and Tinglayan.
ISC III 23 23 46 17.5–.97 16.22N–.05 122.26E–.09 42 3.7b 22 1-79
IDC III 23 23 46 12.5–1.0 15.64N 120.87E 0 3.8,3.7 **¶17198261**
ISCJB III 23 23 46 16.2–.75 16.21N–.04 122.36E–.07 42 3.6b,3.7
MAN III 23 23 46 18 16.24N 122.13E 30 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=59.3km s-min=18.7km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.7km az=11.8.
MAN III 24 07 50 17 17.88N 120.87E 61 3.7b,2.5L ¶601668920
MAN III 24 16 45 30 17.99N 120.46E 18 4.3b,3.1L ¶601668922
ISC III 27 07 36 40.0–1.0 18.84N–.08 120.6E–.10 35 3.5b 14 1-88
ISCJB III 27 07 36 38.7–.86 18.92N–.06 120.7E–.10 35 3.5b **¶17198751**
IDC III 27 07 36 38.2–1.1 18.73N 122.34E 0 3.8L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=7.2km az=168.1.
IDC Error ellipse: s-maj=58.5km s-min=19.4km az=83.0.
MAN III 28 13 29 12 17.92N 120.79E 26 4.2b,3.0L ¶601668934
MAN III 31 00 22 32 14.08N 120.39E 101 4.3b,3.1L ¶601668944
ISC III 31 18 31 01.8–1.2 13.93N–.05 124.14E–.06 28–8 3.8b 48 0-117
MAN III 31 18 30 00 13.88N 124.25E 33 3.6s,3.5b **¶16476004**
IDC III 31 18 30 56.9–.61 13.74N 123.99E 0 3.9,3.8b
ISCJB III 31 18 31 00.9–.86 13.96N–.03 124.15E–.05 30–6 3.9b,2.9s
NEIC III 31 18 31 03.2–3.6 13.72N 124.02E 45–34 4.3b,2.9s
ISC Event type fe.
MAN Event type fe. INTENSITY II - VIGA CATANDUANES.
IDC Error ellipse: s-maj=29.2km s-min=13.9km az=75.0.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=5.2km az=154.5.
NEIC Event type fe. Error ellipse: s-maj=13.5km s-min=7.0km az=71.0. Felt [II PIVS] at Viga.
ISC III 31 22 01 13.1–1.3 15.68N–.03 120.17E–.04 14–9 4.1b,3.4s 66 0-91
IDC III 31 22 01 10.0–.60 15.52N 120.18E 0 4.1,4.0b **¶16459665**
NEIC III 31 22 01 14.4–3.3 15.53N 120.33E 29–24 4.3b,4.0b
MAN III 31 22 01 15 15.74N 120.01E 30 5.1b,4.2s
ISC Event type fe.
IDC Error ellipse: s-maj=21.9km s-min=14.1km az=70.0.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=7.8km az=72.0. Felt [III PIVS] at Infanta, Mangatarem and Santa Cruz and [II PIVS] at Bugallon.
MAN Event type fe. INTENSITY III - INFANTA & MANGATAREM PANGASINAN; STA CRUZ ZAMBALES.
MAN III 31 22 04 42 17.94N 120.67E 27 4.2b,3.0L ¶601668948
MAN IV 01 05 42 21 15.87N 121.04E 33 4.3b,3.1L ¶601668950
MAN IV 01 18 00 39 15.27N 119.92E 1 4.1b,2.9L ¶601668953
MAN IV 01 18 35 24 16.73N 121.08E 41 4.3b,3.2L ¶601668954
MAN IV 01 21 51 00 18.20N 120.69E 22 4.2b,3.1L ¶601668955
MAN IV 02 05 25 42 15.45N 119.93E 39 4.3b,3.2L ¶601668956
MAN IV 02 06 30 36 17.80N 120.29E 31 3.8b,2.5L ¶601668957
MAN IV 02 12 47 32 17.93N 121.57E 31 3.8b,2.6L ¶601668962
MAN IV 02 12 57 37 15.92N 121.80E 26 4.2b,3.0L ¶601668963
MAN IV 06 11 38 13 15.93N 121.91E 0 4.1b,2.8L ¶601668984
MAN IV 06 14 03 57 17.79N 120.69E 35 3.9b,2.7L ¶601668985
MAN IV 06 18 22 56 17.03N 120.47E 20 4.1b,2.9L ¶601668986
MAN IV 07 00 51 44 17.65N 120.92E 49 4.1b,2.9L ¶601668987
MAN IV 07 01 05 55 17.04N 121.75E 69 3.8b,2.5L ¶601668988
MAN IV 07 12 03 05 13.57N 122.91E 11 3.9b,2.7L ¶601668989
MAN IV 08 21 57 12 18.89N 121.20E 1 4.2b,3.0L ¶601668991
MAN IV 09 01 15 01 17.42N 120.34E 9 4.2b,3.0L ¶601668995
MAN IV 09 13 34 37 15.77N 121.98E 27 4.2b,3.0L ¶601668996
IDC IV 11 08 47 24.2–28 14.01N 122.27E 0 4.1,3.9 ¶17200561
IDC Error ellipse: s-maj=504.6km s-min=263.2km az=152.0.
MAN IV 11 12 09 03 15.55N 119.79E 39 4.2b,3.1L ¶601669002
MAN IV 12 07 17 15 16.92N 122.08E 86 4.3b,3.1L ¶601669005
MAN IV 12 11 04 32 16.57N 120.40E 19 4.2b,3.0L ¶601669007
MAN IV 12 16 04 39 18.97N 121.28E 1 4.4b,3.2L ¶601669009
MAN IV 12 19 43 19 17.49N 121.86E 1 4.4b,3.3L ¶601669010
MAN IV 14 05 02 34 15.32N 119.99E 23 4.1b,3.0L ¶601669016
MAN IV 15 08 12 53 17.82N 120.55E 32 3.9b,2.7L ¶601669020
MAN IV 16 19 00 57 18.80N 121.03E 22 4.5b,3.3L ¶601669031
MAN IV 17 08 27 25 17.56N 120.46E 34 3.9b,2.7L ¶601669033
MAN IV 18 11 53 54 13.59N 124.17E 61 5.3b,4.5s ¶601669035
MAN Event type fe. INTENSITY II - SORSOGON CITY.
MAN IV 19 19 30 26 17.89N 120.51E 29 4.2b,3.0L ¶601669037
MAN IV 19 22 52 45 18.04N 120.51E 36 4.0b,2.7L ¶601669038
MAN IV 20 21 44 04 17.88N 121.44E 35 4.0b,2.8L ¶601669045
MAN IV 21 12 06 19 18.54N 120.93E 20 4.2b,3.0L ¶601669048
MAN IV 21 18 20 35 13.24N 122.50E 17 4.6b,3.5L ¶601669051
MAN IV 21 20 47 12 18.47N 120.96E 21 4.2b,3.0L ¶601669054
MAN IV 22 00 19 01 16.03N 119.96E 35 4.0b,2.8L ¶601669057
MAN IV 22 18 09 52 18.20N 122.23E 24 4.4b,3.3L ¶601669060
MAN IV 23 12 13 34 16.36N 120.50E 30 4.1b,2.9L ¶601669064
ISC IV 24 01 33 51.8–2.0 18.38N–.07 120.99E–.05 17–13 3.5b 24 1-88
IDC IV 24 01 33 48.4–.99 18.29N 121.27E 0 3.7,3.5b **¶16505512**
ISCJB IV 24 01 33 51.7–1.4 18.55N–.07 120.98E–.05 16–12 3.4b,3.1s
MAN IV 24 01 33 52 18.44N 120.94E 25 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=80.9km s-min=19.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.0km az=160.2.
ISC IV 24 08 17 28.3–.62 14.10N–.04 120.57E–.08 150 3.9b 29 0-119
ISCJB IV 24 08 17 27.6–.40 14.14N–.04 120.54E–.07 150 3.8b **¶16505517**
MAN IV 24 08 17 29 14.09N 120.46E 129 4.5b,3.4L
IDC IV 24 08 17 30.9–6.8 14.08N 120.67E 179–64 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.2km az=170.5.
IDC Error ellipse: s-maj=33.7km s-min=13.1km az=61.0.
ISC IV 25 03 26 06.8–1.3 18.10N–.06 120.37E–.07 29–8 3.4b 15 0-44
IDC IV 25 03 25 55.9–3.9 18.63N 122.44E 0 3.7,3.5b **¶601669072**
ISCJB IV 25 03 26 06.5–.93 18.07N–.05 120.32E–.07 33–10 3.3b,2.9s
MAN IV 25 03 26 06 18.05N 120.40E 26 4.3b,3.1L
ISC Event type ke.
IDC Error ellipse: s-maj=307.7km s-min=27.9km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.4km az=17.9.
IDC IV 25 11 52 00.1–1.6 17.08N 120.16E 0 3.9s,3.9 ¶17202048
IDC Error ellipse: s-maj=313.9km s-min=27.7km az=71.0.
MAN IV 25 17 41 12 12.83N 123.02E 12 4.1b,2.9L ¶601669077
MAN IV 26 01 40 36 15.54N 120.01E 10 4.2b,3.0L ¶601669078
ISC IV 27 14 42 41.4–.66 18.60N–.09 121.5E–.20 35 3.7b 18 3-115
ISCJB IV 27 14 42 39.6–.58 18.62N–.07 121.5E–.10 35 3.7b,2.6s **¶17202239**
MAN IV 27 14 42 41 18.72N 120.89E 17 4.7b,3.6L
IDC IV 27 14 42 42.4–5.4 18.54N 121.33E 45–52 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=9.5km az=5.2.
IDC Error ellipse: s-maj=31.4km s-min=14.1km az=72.0.
MAN IV 27 17 56 28 15.74N 119.78E 21 4.5b,3.3L ¶601669084
ISC IV 28 06 31 00.7–2.2 18.82N–.07 120.0E–.10 1–14 4.3b 24 1-88
IDC IV 28 06 31 00.2–.70 18.79N 120.08E 0 4.3,4.2 **¶17202285**
MAN IV 28 06 31 05 18.76N 120.07E 14 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=15.1km az=65.0.
ISC IV 28 07 22 11.4–.64 18.77N–.04 120.11E–.04 27–4 4.7b,4.1s 192 1-101
IDC IV 28 07 22 06.9–.48 18.76N 120.04E 0 4.5,4.5b **¶16465557**
MAN IV 28 07 22 09 18.75N 119.87E 19 5.0b,4.0s
BKK IV 28 07 22 11.0–3.9 20N–24 120E–35 10 4.9b,4.2
ISCJB IV 28 07 22 11.9–.52 18.82N–.03 120.04E–.03 46–6 4.6b,4.1s
MOS IV 28 07 22 11.5–.89 18.74N 119.99E 46 5.1b,4.2s
NEIC IV 28 07 22 13.4–1.2 18.76N 120.06E 46–11 4.7b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=11.0km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.7km az=146.0.
MOS Error ellipse: s-maj=10.2km s-min=5.6km az=108.4.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.0km az=86.0.
ISC IV 28 21 37 57.0–.90 18.74N–.04 120.06E–.05 29–7 4.4b,3.5s 110 1-88
IDC IV 28 21 37 52.5–.59 18.77N 119.98E 0 4.3,4.2 **¶16483650**
NEIC IV 28 21 37 55.2–2.2 18.75N 119.95E 16–14 4.5b,4.2
ISCJB IV 28 21 37 56.3–.57 18.77N–.03 119.93E–.04 37–6 4.4b,3.6s
MAN IV 28 21 38 01 18.51N 120.20E 8 5.2b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=13.4km az=78.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.9km az=100.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=159.6.
MAN IV 29 21 00 17 17.75N 120.56E 21 4.2b,3.0L ¶601669092
MAN IV 30 10 19 23 14.62N 123.30E 68 4.5b,3.4L ¶601669095
MAN IV 30 11 42 11 18.81N 120.84E 48 4.2b,3.0L ¶601669096
MAN IV 30 17 10 47 16.53N 120.24E 96 4.4b,3.3L ¶601669097
MAN IV 30 17 16 58 17.48N 120.29E 33 4.2b,3.0L ¶601669098
MAN IV 30 18 17 43 15.75N 120.03E 11 4.0b,2.8L ¶601669099
MAN IV 30 19 11 34 18.10N 120.71E 27 4.1b,2.9L ¶601669100
ISC IV 30 22 33 43.0–1.2 16.05N–.06 122.05E–.09 39 3.5b 16 1-49
IDC IV 30 22 33 37.4–2.0 16.28N 122.25E 0 3.7,3.5 **¶17202481**
MAN IV 30 22 33 41 16.00N 122.00E 29 4.5b,3.4L
ISCJB IV 30 22 33 42.1–.84 16.05N–.05 122.05E–.07 39 3.4b,3.0s
ISC Event type ke.
ISCJB Event type ke.
MAN V 01 06 26 51 16.14N 119.87E 35 3.8b,2.6L ¶601669103
ISC V 04 10 47 34.0–.98 17.43N–.03 120.52E–.05 32–7 4.1b 43 0-84
ISCJB V 04 10 47 33.9–.38 17.44N–.03 120.53E–.05 46–4 4.0b **¶16577982**
MAN V 04 10 47 33 17.48N 120.49E 27 4.7b,3.6L
IDC V 04 10 47 37.8–3.8 17.28N 120.72E 75–36 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=15.1.
IDC Error ellipse: s-maj=21.7km s-min=12.7km az=73.0.
MAN V 04 13 59 45 15.32N 119.90E 28 4.0b,2.8L ¶601669111
MAN V 04 17 19 58 16.46N 120.91E 54 4.3b,3.2L ¶601669113
MAN V 05 05 54 30 17.48N 120.48E 27 4.1b,2.9L ¶601669115
ISC V 05 19 58 15.0–1.1 18.01N–.05 120.23E–.07 50–11 3.7b 26 0-89
IDC V 05 19 58 07.0–.82 17.76N 120.34E 0 3.8,3.7b **¶16578007**
MAN V 05 19 58 13 18.02N 120.15E 24 4.8b,3.8s
ISCJB V 05 19 58 14.2–.70 18.02N–.04 120.19E–.07 52–8 3.6b,3.6s
ISC Event type fe.
MAN Event type fe. INTENSITY II - LAOAG CITY PASUQUIN ILOCOS NORTE.
ISCJB Event type fe.

MAN	**V**	**06 18 12 20**	**16.65N**	**119.86E**	**33**	**4.3b,3.1L**		
								¶601669119
MAN	**V**	**06 19 34 18**	**17.76N**	**120.43E**	**36**	**3.7b,2.4L**		
								¶601669120
MAN	**V**	**08 12 43 25**	**17.66N**	**120.52E**	**4**	**4.4b,3.2L**		
								¶601669122
MAN	**V**	**08 17 36 44**	**17.78N**	**120.63E**	**37**	**4.2b,3.1L**		
								¶601669123
MAN	**V**	**08 18 08 12**	**17.68N**	**120.51E**	**3**	**4.1b,3.0L**		
								¶601669124
ISC	**V**	**08 19 02 10.7–1.1**	**17.62N–.04**	**120.52E–.04**	**17–8**	**3.1b**	**19**	**0-43**
IDC	V	08 19 02 08.2–1.4	17.55N	120.94E	0	3.4,3.3b		¶17203068
MAN	V	08 19 02 10	17.68N	120.50E	3	4.3b,3.2L		
ISCJB	V	08 19 02 11.3–.72	17.68N–.04	120.51E–.05	15–8	3.2b,2.7s		
ISC		Event type ke.						
ISCJB		Event type ke.						
MAN	**V**	**08 19 39 19**	**17.77N**	**120.58E**	**18**	**4.2b,3.0L**		
								¶601669125
MAN	**V**	**08 20 05 43**	**17.73N**	**120.37E**	**1**	**4.4b,3.2L**		
								¶601669126
ISC	**V**	**08 20 20 22.0–1.1**	**17.78N–.06**	**120.44E–.07**	**41**	**3.2b**	**16**	**0-77**
IDC	V	08 20 20 18.6–2.3	17.68N	121.06E	0	3.5,3.4		¶17203074
ISCJB	V	08 20 20 21.0–.93	17.75N–.07	120.43E–.08	41	3.3b,3.4		
MAN	V	08 20 20 21	17.63N	120.52E	7	4.7b,3.6L		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=269.9km s-min=22.9km az=63.0.						
ISCJB		Event type ke. Error ellipse: s-maj=12.5km s-min=7.6km az=33.6.						
MAN	**V**	**08 20 25 13**	**17.60N**	**120.38E**	**32**	**3.7b,2.4L**		
								¶601669129
MAN	**V**	**08 20 54 29**	**17.59N**	**120.38E**	**32**	**3.8b,2.5L**		
								¶601669130
MAN	**V**	**08 21 33 13**	**17.83N**	**120.53E**	**22**	**4.1b,3.0L**		
								¶601669132
ISC	**V**	**08 21 44 45.7–1.2**	**17.77N–.09**	**120.7E–.10**	**28**	**3.5b**	**11**	**0-77**
IDC	V	08 21 44 42.5–2.1	17.76N	121.18E	0	3.8,3.6		¶17203081
MAN	V	08 21 44 44	17.80N	120.53E	23	4.9b,3.8L		
ISCJB	V	08 21 44 45.7–.62	17.67N–.05	120.52E–.06	28	3.5b,3.8L		
ISC		Event type fe.						
MAN		Event type fe. INTENSITY II - VIGAN SANTA MAGSINGALSTO DOMINGO BANTAY AND SAN ILDEFONSO ILOCOS SUR.						
ISCJB		Event type fe.						
MAN	**V**	**08 21 53 34**	**17.81N**	**120.62E**	**9**	**4.1b,2.9L**		
								¶601669133
MAN	**V**	**09 22 29 44**	**18.56N**	**120.81E**	**32**	**4.4b,3.3L**		
								¶601669142
MAN	**V**	**09 22 44 08**	**17.78N**	**120.61E**	**19**	**3.8b,2.6L**		
								¶601669143
MAN	**V**	**10 03 50 07**	**17.65N**	**120.92E**	**19**	**4.3b,3.1L**		
								¶601669147
MAN	**V**	**10 13 51 33**	**16.30N**	**121.45E**	**70**	**4.2b,3.1L**		
								¶601669149
MAN	**V**	**11 16 53 54**	**18.66N**	**120.80E**	**32**	**4.1b,2.9L**		
								¶601669154
MAN	**V**	**12 15 13 26**	**18.16N**	**120.78E**	**8**	**3.5b,2.2L**		
								¶601669157
MAN	**V**	**12 16 24 49**	**14.89N**	**119.79E**	**22**	**4.5b,3.4L**		
								¶601669158
MAN	**V**	**12 19 57 37**	**16.30N**	**120.86E**	**52**	**4.1b,2.9L**		
								¶601669159
MAN	**V**	**13 04 52 53**	**14.70N**	**123.86E**	**44**	**4.4b,3.2L**		
								¶601669163
MAN	**V**	**13 05 08 29**	**14.20N**	**121.22E**	**1**	**4.4b,3.2L**		
								¶601669164
MAN	**V**	**13 05 24 14**	**14.12N**	**121.18E**	**1**	**3.9b,2.7L**		
								¶601669165
ISC	**V**	**14 18 06 46.9–.85**	**14.21N–.03**	**120.20E–.06**	**93–7**	**3.5b**	**30**	**0-87**
MAN	V	14 18 06 45	14.23N	120.15E	81	4.2b,3.1L		¶17203627
ISCJB	V	14 18 06 46.1–.42	14.20N–.03	120.20E–.06	98–5	3.5b,3.1L		
IDC	V	14 18 06 47.4–.87	14.26N	120.48E	102–11	3.8s,3.8		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=9.9km s-min=4.5km az=5.1.						
IDC		Error ellipse: s-maj=45.0km s-min=21.3km az=62.0.						
MAN	**V**	**15 07 35 51**	**18.24N**	**120.69E**	**37**	**3.9b,2.6L**		
								¶601669175
MAN	**V**	**15 16 06 06**	**16.89N**	**120.95E**	**31**	**3.9b,2.7L**		
								¶601669180
MAN	**V**	**16 01 06 25**	**17.09N**	**120.29E**	**34**	**4.1b,2.9L**		
								¶601669182
MAN	**V**	**16 17 56 25**	**16.47N**	**122.68E**	**29**	**4.4b,3.2L**		
								¶601669184
MAN	**V**	**16 19 12 36**	**17.91N**	**120.46E**	**22**	**3.9b,2.7L**		
								¶601669185
MAN	**V**	**17 04 21 25**	**17.95N**	**120.70E**	**31**	**3.8b,2.6L**		
								¶601669188
MAN	**V**	**17 19 32 57**	**16.52N**	**120.34E**	**102**	**3.9b,2.7L**		
								¶601669190
ISC	**V**	**18 23 50 56.5–1.9**	**17.21N–.04**	**122.65E–.08**	**0–11**	**3.9b**	**22**	**1-78**
IDC	V	18 23 50 56.2–1.0	17.48N	122.94E	0	4.0,3.9		¶17203919
MAN	V	18 23 50 58	17.38N	122.67E	2	4.8b,3.7L		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=52.7km s-min=17.9km az=62.0.						
MAN	**V**	**20 18 45 12**	**17.77N**	**120.84E**	**14**	**4.3b,3.2L**		
								¶601669199
MAN	**V**	**21 08 04 02**	**17.58N**	**120.37E**	**32**	**3.7b,2.4L**		
								¶601669201
ISC	**V**	**21 12 28 18.2–1.8**	**18.86N–.03**	**120.04E–.06**	**4–12**	**4.3b,3.2s**	**52**	**1-101**
IDC	V	21 12 28 17.6–.62	18.77N	120.05E	0	4.3,4.2		¶16710507
MAN	V	21 12 28 22	18.59N	119.96E	9	5.1b,4.0L		
NEIC	V	21 12 28 22.6–.40	18.85N	120.10E	35	4.4b,4.0L		
ISC		Event type se.						
IDC		Error ellipse: s-maj=20.0km s-min=13.8km az=71.0.						
NEIC		Event type se. Error ellipse: s-maj=11.1km s-min=6.8km az=91.0.						
ISC	**V**	**21 13 08 04.8–.41**	**17.25N–.02**	**121.91E–.03**	**34–1**	**5.2b,4.7s**	**702**	**0-170**
IDC	V	21 13 07 59.0–.44	17.11N	121.74E	0	5.0,5.0		¶16531800
MAN	V	21 13 08 01	17.19N	121.89E	13	5.9b,5.5s		
MOS	V	21 13 08 02.5–1.1	17.17N	121.78E	33	5.4b,4.6s		
ISCJB	V	21 13 08 02.6–.41	17.25N–.01	121.88E–.02	31–3	5.1b,4.6s		
NEIC	V	21 13 08 04.5–.55	17.19N	121.72E	35–5	5.3b,4.6s		
BJI	V	21 13 08 04.6	17.24N	121.86E	46	5.1b,5.0s		
GCMT	V	21 13 08 04.5–.10	17.31N	121.91E	13–0	5.2W,5.0s		
KLM	V	21 13 08 07.6	17.23N	122.13E	94	5.8s,5.2b		
BKK	V	21 13 08 09.3–5.9	17N–15	122E–40	90–30	5.1b,4.7b		
ISC		Event type fe.						
MAN		Event type fe. INTENSITY V - ILAGAN ISABELA; INTENSITY IV - TUGUEGARAO CITY; PENABLANCA CAGAYAN; QUIRINO AND TUMAUINI ISABELA; INTENSITY II - BAGUIO CITY; TABUK KALINGA.						
ISCJB		Event type fe.						
NEIC		Event type fe. Felt [V PIVS] at Ilagan; [IV PIVS] at Baler, Penablanca, Quirino, Tuguegarao City and Tumauini; [II PIVS] at Baguio and Tabuk. Also felt at Angadanan, Bayombong, Cabarroguis, Gamu, Luna, San Mateo and Santiago.						
GCMT		nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c89; s113,c200;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.24±.13 $M_{\theta\theta}$-6.04±.12; $M_{\phi\phi}$4.81±.12; $M_{r\theta}$1.13±.25; $M_{\theta\phi}$2.79±.09; $M_{\phi r}$1.72±.30; Best double couple: NP1:ϕ_s61.00000°,δ79.00000°,λ19.00000°. NP2:ϕ_s327.00000°,δ71.00000°,λ168.00000°. Principal axes: T 6.2420,Plg21.0000°,Azm285.0000°; N 0.5460,Plg68.0000°,Azm90.0000° ; P -6.7780,Plg5.0000°,Azm193.0000° $M_0$6.51000×10^{16}						
MAN	**V**	**21 13 39 42**	**17.19N**	**122.02E**	**31**	**4.0b,2.7L**		
								¶601669202
MAN	**V**	**21 13 46 13**	**17.17N**	**121.79E**	**28**	**3.9b,2.7L**		
								¶601669203
MAN	**V**	**21 13 53 08**	**17.17N**	**121.90E**	**24**	**4.8b,3.7L**		
								¶601669204
MAN	**V**	**21 14 12 42**	**17.23N**	**121.91E**	**19**	**4.6b,3.5L**		
								¶601669205
MAN	**V**	**21 14 30 08**	**17.99N**	**121.46E**	**20**	**4.0b,2.8L**		
								¶601669206
MAN	**V**	**21 18 19 57**	**17.19N**	**121.87E**	**22**	**4.5b,3.4L**		
								¶601669207
MAN	**V**	**21 19 48 35**	**17.20N**	**121.86E**	**21**	**4.1b,2.9L**		
								¶601669209
MAN	**V**	**22 01 24 56**	**17.24N**	**121.94E**	**27**	**4.4b,3.3L**		
								¶601669210
ISC	**V**	**22 08 39 49.0–.88**	**18.80N–.07**	**120.34E–.08**	**28**	**3.5b**	**15**	**1-88**
IDC	V	22 08 39 44.8–1.1	18.58N	120.24E	0	3.7,3.5		¶17204211
ISCJB	V	22 08 39 47.5–.78	18.90N–.07	120.22E–.08	28	3.5b,3.5		
MAN	V	22 08 39 47	18.93N	120.34E	15	4.6b,3.5L		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=36.5km s-min=21.7km az=71.0.						
ISCJB		Event type ke. Error ellipse: s-maj=13.3km s-min=7.3km az=137.5.						
MAN	**V**	**22 23 38 58**	**17.21N**	**121.87E**	**18**	**4.5b,3.4L**		
								¶601669213
MAN	**V**	**23 10 28 39**	**14.95N**	**123.39E**	**33**	**4.3b,3.1L**		
								¶601669219
MAN	**V**	**23 15 14 32**	**14.03N**	**120.54E**	**109**	**3.7b,2.4L**		
								¶601669222
MAN	**V**	**23 17 54 21**	**15.30N**	**120.19E**	**99**	**4.4b,3.3L**		
								¶601669223
MAN	**V**	**23 20 16 04**	**13.91N**	**122.44E**	**20**	**3.7b,2.4L**		
								¶601669225
ISC	**V**	**24 05 57 18.0–2.1**	**15.6N–.10**	**119.0E–.20**	**29**		**10**	**1-42**
IDC	V	24 05 57 10.4–10	16.52N	120.44E	0	3.9,3.8		¶17204358
ISCJB	V	24 05 57 17.3–1.6	15.54N–.10	119.0E–.10	29	3.8s,3.5b		
MAN	V	24 05 57 18	15.49N	119.16E	23	4.6b,3.5L		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=319.6km s-min=32.2km az=34.0.						
ISCJB		Event type ke. Error ellipse: s-maj=21.8km s-min=7.4km az=34.2.						
ISC	**V**	**24 09 44 14.7–.49**	**15.31N–.05**	**119.30E–.06**	**31**	**4.1b**	**38**	**1-119**
IDC	V	24 09 44 10.6–.55	15.45N	119.38E	0	4.3,4.3L		¶16710800
ISCJB	V	24 09 44 13.6–.40	15.43N–.04	119.15E–.04	31	4.1b,2.8s		
MAN	V	24 09 44 14	15.55N	119.25E	15	4.8b,3.8L		
NEIC	V	24 09 44 15.8–.33	15.40N	119.34E	35	4.4b,3.8L		
ISC		Event type se.						
IDC		Error ellipse: s-maj=25.5km s-min=12.5km az=68.0.						
ISCJB		Event type se. Error ellipse: s-maj=6.1km s-min=5.7km az=151.1.						
NEIC		Event type se. Error ellipse: s-maj=11.9km s-min=7.3km az=71.0.						
MAN	**V**	**24 16 33 15**	**14.87N**	**119.57E**	**23**	**4.9b,3.9L**		
								¶601669230
MAN	**V**	**24 17 23 54**	**16.20N**	**120.40E**	**58**	**4.3b,3.2L**		
								¶601669232
MAN	**V**	**24 18 38 47**	**14.85N**	**119.48E**	**5**	**4.5b,3.4L**		
								¶601669233
MAN	**V**	**25 04 27 40**	**13.50N**	**122.10E**	**17**	**3.7b,2.4L**		
								¶601669236
MAN		Event type fe. INTENSITY II - STA CRUZ MARINDUQUE.						
MAN	**V**	**26 14 17 40**	**13.46N**	**122.87E**	**86**	**3.8b,2.5L**		
								¶601669237
MAN	**V**	**26 14 32 18**	**18.58N**	**121.09E**	**38**	**4.3b,3.2L**		
								¶601669238
ISC	**V**	**26 15 41 26.9–1.2**	**14.03N–.03**	**122.22E–.03**	**0–8**	**4.1b,3.5s**	**64**	**0-88**
ISCJB	V	26 15 41 26.9–.73	14.06N–.02	122.28E–.04	12–5	4.1b,3.4s		¶16710987
MAN	V	26 15 41 26	14.02N	122.22E	1	4.7b,3.6L		
IDC	V	26 15 41 27.5–3.4	14.15N	122.11E	0	3.9,3.8b		
NEIC	V	26 15 41 32.1–.54	14.15N	122.25E	35	4.3b,3.8b		
ISC		Event type se.						
ISCJB		Event type se. Error ellipse: s-maj=5.9km s-min=4.1km az=6.8.						
IDC		Error ellipse: s-maj=80.1km s-min=33.3km az=165.0.						
NEIC		Event type se. Error ellipse: s-maj=12.3km s-min=9.6km az=91.0.						
ISC	**V**	**26 16 15 36.6–.54**	**15.46N–.06**	**119.26E–.06**	**31**	**4.3b**	**46**	**1-92**
MAN	V	26 16 15 33	15.48N	119.02E	11	5.0b,4.0s		¶16710990
ISCJB	V	26 16 15 35.0–.35	15.38N–.04	119.16E–.04	31	4.3b,2.7s		
NEIC	V	26 16 15 36.9–.37	15.47N	119.39E	35	4.5b,2.7s		
IDC	V	26 16 15 42.3–10	15.42N	119.35E	84–102	3.9L,3.8		
ISC		Event type se.						
ISCJB		Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=42.6.						
NEIC		Event type se. Error ellipse: s-maj=10.2km s-min=7.7km az=83.0.						
IDC		Error ellipse: s-maj=33.6km s-min=13.6km az=72.0.						
MAN	**V**	**27 17 31 09**	**16.67N**	**122.59E**	**4**	**4.7b,3.6L**		
								¶601669246
MAN	**V**	**30 04 18 55**	**17.19N**	**121.85E**	**21**	**4.2b,3.1L**		
								¶601650924
MAN	**V**	**31 09 43 14**	**16.82N**	**119.54E**	**29**	**4.3b,3.2L**		
								¶601650930
MAN	**V**	**31 23 45 26**	**18.53N**	**120.98E**	**4**	**4.5b,3.3L**		
								¶601650933
IDC	**VI**	**01 01 00 02.0–12**	**14.47N**	**119.16E**	**0**	**4.5L,4.0**		
								¶17204857
IDC		Error ellipse: s-maj=418.7km s-min=33.2km az=37.0.						
ISC	**VI**	**01 14 56 11.5–.96**	**15.01N–.03**	**119.50E–.07**	**20–6**		**27**	**1-41**
MAN	VI	01 14 56 08	14.92N	119.44E	1	5.1b,4.2s		¶17204900
IDC	VI	01 14 56 11.8–2.1	14.23N	119.49E	0	3.9,3.6		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=48.5km s-min=26.7km az=12.0.						
MAN	**VI**	**01 15 08 12**	**12.56N**	**123.59E**	**5**	**4.5b,3.3L**		
								¶601650975
IDC	**VI**	**02 04 34 04.3–1.8**	**15.98N**	**120.20E**	**0**	**3.8,3.6**		
								¶17204942
IDC		Error ellipse: s-maj=79.8km s-min=23.6km az=53.0.						
IDC	**VI**	**02 04 37 37.6–1.2**	**15.65N**	**119.83E**	**0**	**4.0,3.7**		
								¶17204943
IDC		Error ellipse: s-maj=59.0km s-min=19.8km az=61.0.						
IDC	**VI**	**02 08 37 22.1–9.0**	**15.54N**	**119.64E**	**121–91**	**3.8,3.6**		
								¶17204969
IDC		Error ellipse: s-maj=34.3km s-min=14.5km az=66.0.						
IDC	**VI**	**02 12 32 29.8–1.5**	**15.06N**	**119.55E**	**0**	**4.0,3.7b**		
								¶17204999
IDC		Error ellipse: s-maj=62.1km s-min=24.2km az=57.0.						
MAN	**VI**	**02 17 39 35**	**14.01N**	**120.46E**	**109**	**4.3b,3.1L**		
								¶601651025
IDC	**VI**	**02 18 50 43.6–1.9**	**17.56N**	**121.30E**	**0**	**3.4,3.2**		
								¶17205016
IDC		Error ellipse: s-maj=76.1km s-min=23.0km az=53.0.						
MAN	**VI**	**02 23 59 43**	**18.02N**	**120.86E**	**66**	**4.0b,2.7L**		
								¶601651027
MAN	**VI**	**03 01 36 33**	**18.30N**	**120.84E**	**13**	**4.7b,3.6L**		
								¶601651102
MAN		Event type fe. INTENSITY II - PASUQUIN AND BANGUI ILOCOS NORTE.						
MAN	**VI**	**03 09 16 21**	**17.60N**	**121.47E**	**38**	**3.9b,2.7L**		
								¶601651103
ISC	**VI**	**03 19 07 09.9–.75**	**14.14N–.03**	**120.43E–.07**	**129–6**	**3.9b**	**38**	**0-92**
IDC	VI	03 19 07 10.0–.62	14.12N	120.74E	136–5	3.9,3.6		¶17205116
MAN	VI	03 19 07 10	14.15N	120.40E	114	4.9b,3.8L		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=29.7km s-min=13.2km az=68.0.						
IDC	**VI**	**03 21 52 57.8–10**	**14.58N**	**119.14E**	**0**	**3.8,3.7L**		
								¶17205128
IDC		Error ellipse: s-maj=347.9km s-min=31.7km az=37.0.						
IDC	**VI**	**03 21 56 29.3–1.2**	**15.77N**	**120.03E**	**0**	**3.8,3.6**		
								¶17205130
IDC		Error ellipse: s-maj=56.5km s-min=20.1km az=61.0.						
MAN	**VI**	**04 12 17 47**	**12.82N**	**122.93E**	**28**	**4.1b,3.0L**		
								¶601651209
ISC	**VI**	**05 02 51 54.2–.89**	**15.48N–.08**	**119.5E–.10**	**31**	**3.5b**	**9**	**1-44**

ISCJB VI 05 02 51 53.0–.76 15.42N–.07 119.4E–.10 31 3.4b ¶17205274
IDC VI 05 02 52 26.5–8.3 15.26N 118.85E 379–109 3.6,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=8.9km az=15.3.
IDC Error ellipse: s-maj=32.5km s-min=14.8km az=74.0.
MAN VI 05 08 59 51 17.97N 120.36E 25 3.8b,2.6L
¶601653057
MAN VI 05 09 27 11 12.09N 122.11E 1 3.9b,2.7L
¶601653058
MAN VI 05 22 39 56 13.61N 122.68E 10 3.9b,2.6L
¶601653060
ISC VI 06 01 51 38.6–1.3 13.70N–.03 122.71E–.04 4–9 3.6b,3.5s 45 0-92
IDC VI 06 01 51 37.2–1.0 13.63N 122.73E 0 4.0,3.9b ¶16684507
MAN VI 06 01 51 37 13.65N 122.69E 2 4.8b,3.7L
NEIC VI 06 01 51 38.6–.73 13.63N 122.73E 10 3.6b,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=28.2km s-min=17.0km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=20.3km s-min=13.0km az=56.0. Felt [II PIVS] at Guinayangan.
MAN VI 06 03 08 23 13.65N 122.57E 7 3.6b,2.3L
¶601653334
MAN Event type fe. INTENSITY II - GUINAYANGAN QUEZON.
MAN VI 06 03 23 38 13.67N 122.67E 7 4.3b,3.2L
¶601653335
MAN VI 06 03 47 39 13.65N 122.62E 11 4.4b,3.3L
¶601653336
IDC VI 06 04 53 37.1–1.5 15.86N 120.18E 0 3.9,3.7
¶17205386
IDC Error ellipse: s-maj=71.0km s-min=20.1km az=56.0.
ISC VI 06 04 58 20.4–1.0 15.8N–.20 120.0E–.20 33 3.8b 8 20-91
IDC VI 06 04 58 15.6–.90 15.79N 120.01E 0 4.0,3.8 ¶17205388
ISCJB VI 06 04 58 18.6–.80 15.8N–.10 119.9E–.20 33 3.7b,2.8s
ISC Event type ke.
ISCJB Event type ke.
MAN VI 06 06 53 36 13.92N 122.90E 31 4.0b,2.8L
¶601653337
MAN VI 06 14 51 45 13.67N 122.55E 5 4.3b,3.1L
¶601653341
MAN VI 06 15 25 34 13.68N 122.64E 7 4.7b,3.6L
¶601653342
ISC VI 06 20 34 38.6–1.1 14.6N–.20 119.0E–.10 18 3.4b 6 2-44
IDC VI 06 20 34 36.4–1.1 14.55N 118.97E 0 4.0L,3.8 ¶17205433
ISCJB VI 06 20 34 37.4–.90 14.5N–.10 118.9E–.10 18 3.4b,3.8
ISC Event type ke.
ISCJB Event type ke.
MAN VI 07 00 10 23 18.82N 120.17E 91 4.2b,3.0L
¶601653483
ISC VI 07 02 15 02.1–1.4 18.55N–.07 120.62E–.07 32–9 3.3b 20 0-46
IDC VI 07 02 14 57.5–1.1 18.50N 120.77E 0 3.8L,3.7 ¶17205443
MAN VI 07 02 15 01 18.55N 120.67E 5 4.6b,3.5L
ISC Event type fe.
IDC Error ellipse: s-maj=40.3km s-min=20.3km az=63.0.
MAN Event type fe. INTENSITY II - PASUQUIN ILOCOS NORTE.
IDC VI 07 21 03 00.9–1.0 15.69N 119.82E 0 3.7,3.6
¶17205515
IDC Error ellipse: s-maj=54.2km s-min=16.9km az=61.0.
IDC VI 08 20 48 52.5–1.2 15.73N 119.92E 0 3.6,3.4
¶17205573
IDC Error ellipse: s-maj=58.3km s-min=19.2km az=62.0.
MAN VI 10 00 18 38 12.35N 122.17E 29 4.2b,3.0L
¶601653884
MAN VI 10 16 30 52 17.67N 120.39E 31 4.0b,2.8L
¶601653886
MAN VI 11 02 22 49 13.96N 122.83E 8 4.4b,3.3L
¶601654030
MAN VI 12 12 25 44 15.78N 119.67E 11 4.4b,3.2L
¶601654092
MAN VI 12 12 32 01 15.75N 119.30E 10 4.4b,3.2L
¶601654093
ISC VI 12 14 51 51.1–1.4 16.79N–.03 122.59E–.05 17–8 4.3b 91 1-116
IDC VI 12 14 51 48.2–.60 16.78N 122.58E 0 4.7L,4.2 ¶16593424
MAN VI 12 14 51 50 16.78N 122.66E 6 5.2b,4.4s
NEIC VI 12 14 51 52.6–1.9 16.79N 122.48E 29–14 4.4b,4.4s
BJI VI 12 14 51 57.1 16.97N 121.66E 26 4.4b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=12.0km az=90.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=5.7km az=99.0.
ISC VI 12 15 01 51.5–1.7 18.20N–.05 120.35E–.06 28–13 3.6b 25 0-75
ISCJB VI 12 15 01 51.8–.71 18.23N–.04 120.33E–.07 42–9 3.5b ¶17205829
MAN VI 12 15 01 51 18.20N 120.36E 22 4.8b,3.7L
IDC VI 12 15 01 58.1–2.4 17.94N 120.56E 112–26 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.8km az=4.9.
IDC Error ellipse: s-maj=30.8km s-min=14.1km az=68.0.
MAN VI 12 15 46 50 17.49N 122.17E 10 4.8b,3.7L
¶601654095
MAN VI 12 17 10 00 18.07N 120.47E 12 4.3b,3.2L
¶601654096
MAN VI 13 08 16 52 16.91N 122.68E 1 4.5b,3.4L
¶601654154
MAN VI 13 16 35 18 17.31N 120.25E 8 4.3b,3.1L
¶601654160
ISC VI 13 17 56 19.1–1.3 15.52N–.09 119.4E–.10 31 3.1b 10 1-44
IDC VI 13 17 56 13.9–3.2 15.67N 119.52E 0 3.5,3.3 ¶17206061
MAN VI 13 17 56 14 15.57N 118.87E 16 3.5,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=377.3km s-min=25.3km az=61.0.
ISC VI 13 19 17 45.7–1.2 15.43N–.08 119.2E–.10 29 3.4b 11 2-48
IDC VI 13 19 17 42.0–1.1 14.94N 118.52E 0 4.3L,3.7 ¶17206065
ISCJB VI 13 19 17 43.8–.93 15.36N–.09 119.2E–.10 29 3.3b,3.7
MAN VI 13 19 17 45 15.61N 119.19E 13 5.0b,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=60.6km s-min=19.3km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=9.0km az=29.2.
IDC VI 14 02 17 14.6–12 14.57N 119.26E 0 4.4L,4.1
¶17206079
IDC Error ellipse: s-maj=434.6km s-min=33.5km az=37.0.
MAN VI 14 05 38 40 17.52N 121.33E 22 4.0b,2.8L
¶601654194
ISC VI 14 14 13 42.1–2.8 15.51N–.05 119.20E–.07 1–18 3.9b 26 1-52
IDC VI 14 14 13 42.0–.88 15.46N 119.11E 0 3.9,3.9L ¶16685952
MAN VI 14 14 13 41 15.61N 119.02E 0 4.6b,3.5L
NEIC VI 14 14 13 48.3–2.5 15.46N 119.23E 51–23 4.2b,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=40.8km s-min=15.6km az=73.0.
NEIC Event type se. Error ellipse: s-maj=34.8km s-min=10.5km az=77.0.
MAN VI 14 15 26 57 17.69N 121.35E 32 4.0b,2.8L
¶601654196
ISC VI 16 08 21 50.8–1.0 15.5N–.10 119.17E–.08 35 3.7b,3.3s 11 1-78
IDC VI 16 08 21 44.2–1.4 15.55N 119.76E 0 3.8,3.6b ¶17206292
MAN VI 16 08 21 46 15.82N 119.03E 71 5.0b,4.0s
ISCJB VI 16 08 21 48.3–.90 15.28N–.10 119.10E–.07 35 3.5b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 11 38 58.3–.98 15.55N–.08 119.30E–.07 31 3.6b 14 1-87
IDC VI 16 11 38 52.6–1.1 15.81N 119.97E 0 3.9,3.7b ¶17206311
ISCJB VI 16 11 38 55.8–.84 15.51N–.08 119.07E–.06 31 3.6b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 11 43 50.0–.87 15.48N–.06 119.26E–.07 10 4.1s,3.7b 15 1-77
IDC VI 16 11 43 46.9–1.1 15.71N 119.98E 0 3.9,3.7 ¶17206313
ISCJB VI 16 11 43 48.6–.86 15.57N–.05 119.07E–.06 10 4.0s,3.6b
MAN VI 16 11 43 49 15.60N 119.23E 12 4.9b,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=56.0km s-min=18.7km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.2km az=6.0.
ISC VI 16 12 17 46.1–2.0 15.41N–.06 119.19E–.07 9–12 3.9b 21 1-48
IDC VI 16 12 17 43.7–1.1 15.67N 119.83E 0 4.0,3.8 ¶17206318
ISCJB VI 16 12 17 44.6–2.0 15.43N–.07 119.08E–.07 15–14 3.7b,2.6s
ISC Event type ke.
ISCJB Event type ke.
MAN VI 17 22 43 53 14.68N 124.09E 30 4.3b,3.2L
¶601654352
MAN VI 19 04 21 00 13.49N 123.04E 45 3.8b,2.5L
¶601654439
MAN VI 19 04 26 25 15.52N 119.92E 32 3.8b,2.6L
¶601654441
MAN VI 20 03 13 00 13.59N 124.18E 28 4.3b,3.2L
¶601654504
MAN Event type fe. INTENSITY III - VIRAC CATANDUANES.
MAN VI 20 15 41 52 18.94N 121.11E 1 4.5b,3.3L
¶601654506
MAN VI 20 17 31 23 18.96N 121.12E 1 4.7b,3.6L
¶601654509
MAN VI 20 19 34 13 18.04N 120.35E 1 4.2b,3.0L
¶601654511
ISC VI 22 11 22 18.5–1.3 15.54N–.05 119.62E–.10 48–11 3.3b 19 0-44
IDC VI 22 11 22 10.6–1.3 15.78N 120.55E 0 3.7,3.4 ¶17206751
ISCJB VI 22 11 22 20.2–.88 15.56N–.05 119.77E–.08 45–9 3.3b,3.4
MAN VI 22 11 22 20 15.54N 119.93E 20 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=59.2km s-min=20.7km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=8.0km az=179.7.
MAN VI 23 15 27 16 14.07N 120.43E 91 3.8b,2.6L
¶601654776
MAN VI 24 12 47 39 12.87N 122.90E 10 4.4b,3.3L
¶601654856
MAN VI 25 01 36 49 17.91N 120.15E 20 4.2b,3.0L
¶601654949
ISC VI 27 09 01 02.4–.95 15.5N–.20 119.4E–.20 31 3.6b 8 2-48
IDC VI 27 09 01 09.3–1.6 15.41N 119.61E 111–19 3.8,3.6 ¶17207059
ISC Event type ke.
IDC Error ellipse: s-maj=46.2km s-min=14.9km az=59.0.
MAN VI 27 12 07 04 17.58N 121.96E 47 3.9b,2.7L
¶601655119
MAN VI 29 20 32 46 18.43N 120.61E 40 3.8b,2.5L
¶601655264
MAN VI 30 00 50 42 14.96N 123.01E 32 3.9b,2.7L
¶601655345

(250) Mindoro.

ISC I 01 09 28 17.9–1.0 13.8N–.10 120.4E–.10 100 3.2b 8 1-46
IDC I 01 09 28 05.5–1.3 13.95N 120.88E 0 3.5,3.3 ¶17189120
ISC Event type ke.
IDC Error ellipse: s-maj=61.0km s-min=20.6km az=61.0.
MAN I 06 23 01 21 13.73N 120.57E 91 4.3b,3.2L
¶601668385
ISC I 08 19 33 55.8–.60 13.68N–.05 120.63E–.08 116–5 4.1b 37 0-93
ISCJB I 08 19 33 54.9–.37 13.68N–.05 120.62E–.08 122–4 4.0b ¶17189719
IDC I 08 19 33 56.0–.81 13.72N 120.91E 123–8 4.1,3.8
MAN I 08 19 33 57 13.66N 120.54E 85 4.8b,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=7.9km az=2.1.
IDC Error ellipse: s-maj=24.6km s-min=12.5km az=65.0.
MAN I 09 02 57 32 13.24N 120.80E 83 4.3b,3.2L
¶601668396
MAN I 09 20 52 51 13.68N 120.56E 86 4.3b,3.1L
¶601668398
MAN I 10 12 00 49 13.36N 120.54E 33 4.1b,2.9L
¶601668402
MAN I 10 15 04 35 13.43N 120.15E 25 4.6b,3.4L
¶601668405
MAN I 12 03 28 36 13.52N 121.47E 1 4.2b,3.0L
¶601668418
ISC I 12 22 54 23.1–.70 13.65N–.06 120.82E–.08 152 3.6b 33 0-93
IDC I 12 22 54 05.0–.96 13.95N 121.40E 0 4.0,3.8 ¶16151199
ISCJB I 12 22 54 22.1–.39 13.70N–.05 120.81E–.07 152 3.6b,3.8
MAN I 12 22 54 24 13.65N 120.76E 130 4.2b,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=48.4km s-min=18.5km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.5km az=153.2.
ISC I 13 02 36 00.4–.97 13.77N–.08 120.23E–.08 35 3.8b 12 1-55
ISCJB I 13 02 35 58.9–.68 13.81N–.06 120.16E–.07 35 3.6b ¶17190029
MAN I 13 02 36 01 13.62N 120.39E 50 4.3b,3.1L
IDC I 13 02 36 25.4–12 14.46N 120.34E 244–129 3.7,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.5km az=150.5.
IDC Error ellipse: s-maj=60.4km s-min=16.8km az=60.0.
MAN I 18 06 16 19 13.61N 120.65E 138 4.0b,2.8L
¶601668433
MAN I 19 16 07 23 13.26N 120.74E 31 4.1b,2.9L
¶601668438
MAN I 19 16 48 21 13.66N 120.07E 50 4.2b,3.0L
¶601668439
MAN I 20 07 53 34 12.36N 120.78E 24 4.4b,3.2L
¶601668450
ISC I 21 18 27 40.1–.63 13.78N–.04 120.66E–.06 169–6 4.1b 64 0-151
BKK I 21 18 27 29.9–.80 15N–5.0 121E–11 10 5.0b,4.3 ¶16019247
ISCJB I 21 18 27 39.8–.28 13.73N–.04 120.79E–.06 181–3 4.0b,4.3
MAN I 21 18 27 40 13.81N 120.49E 137 4.7b,3.6L
IDC I 21 18 27 44.1–3.2 13.74N 120.76E 212–31 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.7km az=1.7.
IDC Error ellipse: s-maj=16.9km s-min=9.2km az=69.0.
ISC I 24 00 55 04.2–.72 13.4N–.20 121.0E–.20 250 3.8b 19 0-93
ISCJB I 24 00 55 03.0–.61 13.5N–.10 121.0E–.20 250 3.6b ¶17190844
IDC I 24 00 55 04.5–5.3 13.41N 120.98E 253–52 4.0,3.5
MAN I 24 00 55 07 13.31N 120.87E 186 3.7b,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.9km s-min=12.9km az=143.1.
IDC Error ellipse: s-maj=27.7km s-min=15.7km az=59.0.
ISC I 24 17 21 05.0–.65 13.06N–.05 120.87E–.09 25 4.1b,3.8s 31 0-93
IDC I 24 17 21 01.2–.78 13.26N 121.05E 0 4.1,4.0b ¶16135719
ISCJB I 24 17 21 03.7–.43 13.00N–.04 120.68E–.06 25 4.2b,3.5s
MAN I 24 17 21 04 13.10N 120.73E 5 4.3b,3.1L
NEIC I 24 17 21 06.3–.40 13.23N 121.03E 35 4.6b,3.1L
ISC Event type se.
IDC Error ellipse: s-maj=43.9km s-min=14.6km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.2km az=7.4.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=7.3km az=59.0.
ISC I 24 19 59 19.5–.98 13.17N–.06 120.75E–.08 27 3.5b 12 0-46
IDC I 24 19 59 15.6–1.2 13.18N 120.85E 0 3.9,3.7 ¶17190920
MAN I 24 19 59 17 13.16N 120.61E 2 4.4b,3.3L
ISCJB I 24 19 59 19.7–.91 13.34N–.07 120.63E–.07 27 3.7b,3.3L
ISC Event type ke.
ISCJB Event type ke.
IDC I 27 13 52 55.6–3.5 12.79N 121.15E 0 3.4,3.2
¶17191113
IDC Error ellipse: s-maj=413.3km s-min=25.9km az=62.0.
MAN I 28 06 53 19 13.17N 121.94E 32 4.2b,3.1L
¶601668475
MAN I 28 15 40 17 13.02N 120.71E 46 4.1b,2.9L

								¶601668477
ISC	**I**	**29 16 37 39.9–1.4**	**13.8N–.10**	**121.0E–.20**	**100**	**3.3b**	**4**	**2-39**
IDC	I	29 16 37 31.3–1.5	13.49N	120.74E	0	3.7,3.4		¶17191262
ISCJB	I	29 16 37 39.6–1.0	13.74N–.08	121.0E–.20	100	3.4b,3.4		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**01 03 23 56.1–1.1**	**13.17N–.05**	**120.27E–.08**	**31**	**3.6b**	**12**	**1-39**
IDC	II	01 03 23 51.4–2.1	13.17N	119.98E	0	3.8,3.6		¶17191454
MAN	II	01 03 23 53	13.23N	120.10E	7	4.5b,3.4L		
ISCJB	II	01 03 23 54.2–.96	13.28N–.06	120.14E–.07	31	3.6b,3.4L		
ISC	Event type ke.							
ISCJB	Event type ke.							
MAN	**II**	**01 19 07 07**	**13.48N**	**120.25E**	**5**	**4.5b,3.4L**		
								¶601668501
MAN	**II**	**02 14 49 38**	**12.49N**	**120.39E**	**18**	**4.5b,3.3L**		
								¶601668502
MAN	**II**	**02 15 22 17**	**12.25N**	**120.51E**	**28**	**4.4b,3.2L**		
								¶601668503
ISC	**II**	**03 10 50 52.7–1.0**	**13.81N–.07**	**120.09E–.09**	**57**	**3.8b**	**12**	**1-50**
ISCJB	II	03 10 50 52.4–.69	13.94N–.07	120.05E–.06	57	3.8b,3.5s		¶17191592
IDC	II	03 10 50 54.7–1.1	15.08N	119.93E	0	3.6s,3.6		
MAN	II	03 10 50 55	13.76N	120.40E	69	4.3b,3.1L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.4km s-min=8.2km az=26.7.							
IDC	Error ellipse: s-maj=143.3km s-min=18.4km az=66.0.							
MAN	**II**	**05 18 21 22**	**12.44N**	**120.76E**	**15**	**4.6b,3.5L**		
								¶601668515
MAN	**II**	**08 18 24 46**	**13.25N**	**121.65E**	**9**	**4.4b,3.3L**		
								¶601668532
MAN	**II**	**09 03 55 41**	**13.56N**	**120.50E**	**76**	**3.9b,2.6L**		
								¶601668537
MAN	**II**	**10 07 36 09**	**13.41N**	**120.12E**	**23**	**3.7b,2.4L**		
								¶601668539
MAN	**II**	**11 23 55 07**	**13.13N**	**120.10E**	**40**	**3.9b,2.7L**		
								¶601668543
MAN	**II**	**12 09 27 29**	**13.46N**	**120.06E**	**5**	**4.2b,3.0L**		
								¶601668545
MAN	**II**	**16 17 51 21**	**12.15N**	**121.88E**	**11**	**4.4b,3.2L**		
								¶601668562
MAN	**II**	**17 08 23 22**	**13.70N**	**120.39E**	**50**	**4.3b,3.2L**		
								¶601668568
MAN	**II**	**17 21 50 31**	**13.26N**	**120.90E**	**68**	**4.1b,2.9L**		
								¶601668570
MAN	**II**	**19 21 46 51**	**13.76N**	**120.35E**	**33**	**4.2b,3.0L**		
								¶601668586
MAN	**II**	**20 14 59 28**	**13.59N**	**120.66E**	**108**	**4.3b,3.2L**		
								¶601668588
MAN	**II**	**20 15 39 29**	**13.22N**	**120.93E**	**32**	**4.0b,2.8L**		
								¶601668589
MAN	**II**	**21 22 01 24**	**13.64N**	**120.13E**	**32**	**4.3b,3.1L**		
								¶601668598
MAN	**III**	**02 14 23 34**	**13.75N**	**120.79E**	**63**	**4.1b,3.0L**		
								¶601668640
MAN	**III**	**06 00 06 00**	**13.01N**	**120.26E**	**9**	**4.1b,2.9L**		
								¶601668674
MAN	**III**	**06 06 52 11**	**13.58N**	**121.35E**	**3**	**4.1b,2.9L**		
								¶601668675
MAN	**III**	**06 11 28 35**	**13.38N**	**120.67E**	**54**	**4.2b,3.0L**		
								¶601668676
MAN	**III**	**08 00 03 13**	**13.08N**	**121.09E**	**21**	**3.6b,2.3L**		
								¶601668682
MAN	**III**	**08 00 34 38**	**13.52N**	**120.57E**	**43**	**3.9b,2.7L**		
								¶601668683
MAN	**III**	**08 04 27 10**	**13.65N**	**120.45E**	**53**	**3.6b,2.3L**		
								¶601668685
MAN	**III**	**08 11 37 59**	**13.04N**	**120.83E**	**28**	**3.6b,2.3L**		
								¶601668687
MAN	**III**	**08 21 31 13**	**12.62N**	**120.98E**	**18**	**3.7b,2.4L**		
								¶601668690
ISC	**III**	**09 10 36 03.1–1.8**	**13.54N–.09**	**120.0E–.10**	**35**		**14**	**1-39**
ISCJB	III	09 10 36 02.1–1.5	13.54N–.09	120.0E–.10	35	3.8b		¶601668694
MAN	III	09 10 36 02	13.55N	120.08E	31	4.1b,2.9L		
IDC	III	09 10 36 41.6–2.7	8.72N	122.01E	0	3.8,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=17.4km s-min=7.5km az=38.4.							
IDC	Error ellipse: s-maj=345.2km s-min=25.3km az=63.0.							
MAN	**III**	**09 19 47 39**	**13.71N**	**120.55E**	**89**	**4.3b,3.1L**		
								¶601668700
ISC	**III**	**10 19 06 09.3–.32**	**13.69N–.03**	**120.62E–.04**	**110–2**	**5.0b**	**426**	**0-151**
BJI	III	10 19 06 08.5	13.66N	120.86E	129	5.0b,4.9b		¶16299032
NEIC	III	10 19 06 08.7–.18	13.74N	120.74E	103	5.0b,4.9b		
IDC	III	10 19 06 08.6–.47	13.70N	120.75E	105–4	4.9,4.6		
MAN	III	10 19 06 09	13.65N	120.36E	78	5.5b,5.1s		
MOS	III	10 19 06 09.2–.92	13.76N	120.78E	124	4.9b,5.1s		
ISCJB	III	10 19 06 09.2–.23	13.76N–.02	120.74E–.03	121–2	5.0b,5.1s		
BKK	III	10 19 06 12.2–1.5	14N–10	121E–12	122–16	5.0b,5.0b		
DJA	III	10 19 06 14.9–.60	14N–3.0	121E–3.0	158–6	5.3b,5.1b		
ISC	Event type fe.							
NEIC	Event type fe. Felt at Calapan. Felt [II PIVS] at Batangas, Luzon. Also felt at Cuenca.							
MAN	Event type fe. INTENSITY II - BATANGAS CITY.							
ISCJB	Event type fe.							
MAN	**III**	**10 23 25 00**	**13.71N**	**120.48E**	**78**	**4.4b,3.2L**		
								¶601668706
MAN	**III**	**13 10 09 40**	**13.76N**	**120.43E**	**82**	**4.2b,3.0L**		
								¶601668715
MAN	**III**	**14 18 24 55**	**13.72N**	**120.84E**	**1**	**4.3b,3.1L**		
								¶601668722
MAN	**III**	**16 16 46 14**	**13.19N**	**121.41E**	**64**	**4.0b,2.8L**		
								¶601668729
MAN	**III**	**17 19 01 27**	**13.48N**	**121.65E**	**96**	**3.8b,2.6L**		
								¶601668860
MAN	**III**	**19 21 11 44**	**13.50N**	**121.51E**	**1**	**4.5b,3.3L**		
								¶601668873
ISC	**III**	**20 23 34 30.5–.38**	**13.18N–.04**	**120.08E–.05**	**31**	**4.5b,3.7s**	**145**	**1-120**
IDC	III	20 23 34 26.0–.57	13.26N	120.06E	0	4.3,4.2		¶16341357
ISCJB	III	20 23 34 28.8–.24	13.25N–.03	120.13E–.04	31	4.5b,3.7s		
MAN	III	20 23 34 29	13.14N	119.82E	27	4.8b,3.8L		
MOS	III	20 23 34 29.0–1.0	13.31N	120.17E	33	4.7b,3.8L		
BKK	III	20 23 34 30.1–.90	13N–6.0	120E–10	10	5.1b,4.8		
BJI	III	20 23 34 30.4	13.28N	120.22E	43	4.9b,4.5b		
NEIC	III	20 23 34 32.2–1.1	13.28N	120.17E	45–11	4.7b,4.5b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=23.1km s-min=13.7km az=62.0.							
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=3.8km az=165.2.							
MOS	Error ellipse: s-maj=15.1km s-min=6.8km az=116.9.							
NEIC	Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=69.0.							
ISC	**III**	**21 10 36 49.3–.24**	**13.93N–.02**	**120.54E–.03**	**94–1**	**5.4b**	**960**	**0-157**
MAN	III	21 10 36 47	13.86N	120.23E	75	6.0b,5.7s		¶16341180
BJI	III	21 10 36 47.3	13.90N	120.71E	97	5.6b,5.3b		
IDC	III	21 10 36 48.7–.38	13.90N	120.64E	90–3	5.3,5.0		
ISCJB	III	21 10 36 49.3–.19	13.98N–.01	120.56E–.02	105–2	5.4b,5.0		
MOS	III	21 10 36 49.6–.80	13.93N	120.62E	115	5.6b,5.0		
KLM	III	21 10 36 50.2	13.91N	120.51E	88	6.1s,5.4b		
GCMT	III	21 10 36 50.1–.10	13.98N	120.37E	89–1	5.5W,5.4b		
NEIC	III	21 10 36 50.1–.37	13.92N	120.57E	102–3	5.5W,5.4b		
BKK	III	21 10 36 54.1–.70	14N–4.0	120E–4.0	120–6	6.0,5.6b		
DJA	III	21 10 36 54.4–.30	14N–2.0	120E–2.0	129–4	5.9,5.8b		
ISC	Event type fe.							
MAN	Event type fe. INTENSITY V - BATANGAS CITY; INTENSITY IV - MANILA CITY.							
ISCJB	Event type fe.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s112,c172; s130,c253;Duration: 1⁋4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.03 $M_{\theta\theta}$0.33±.03; $M_{\phi\phi}$-1.11±.04; $M_{r\theta}$1.42±.02; $M_{\theta\phi}$1.72±.03; $M_{\phi r}$0.56±.03; Best double couple: NP1:ϕ_s107.00000°,δ69.00000°,λ35.00000°. NP2:ϕ_s4.00000°,δ58.00000° ,λ155.00000°. Principal axes: T 2.6660,Plg39.0000°,Azm329.0000°; N -0.3720,Plg50.0000° ,Azm134.0000°; P -2.2980,Plg7.0000°,Azm233.0000° M_o2.48200×10^{17}							
NEIC	Event type fe. Felt [V PIVS] at Batangas; [IV PIVS] at Bacoor, Manila, Marikina, Tagaytay and Talisay; [III PIVS] at Alabang, Dasmarinas, Makati, Malabon, Malolos, Mandaluyong City, Muntinlupa City, Obando, Quezon City and Taguig; [III] at Cavite and Olangapo, Luzon. Felt throughout central Luzon and as far as Baguio and Gumaca. Felt [IV PIVS] at Lubang, Puerto Galera and San Teodoro; [III PIVS] at Abra de Ilog, Calapan and San Jose, Mindoro. Also felt on Lubang Island. Moment Tensor Solution. s14 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97 $M_{\theta\theta}$1.01 $M_{\phi\phi}$-1.98 $M_{r\theta}$1.31 $M_{\theta\phi}$0.96 $M_{\phi r}$0.97 Best double couple: NP1:ϕ_s128.00000° ,δ52.00000°,λ25.00000°. NP2:ϕ_s21.00000°,δ70.00000°,λ139.00000°. Principal axes: T 2.7000,Plg42.0000°,Azm338.0000°; N -0.3200,Plg45.0000°,Azm180.0000° ; P -2.3800,Plg12.0000°,Azm78.0000° M_o2.50000×10^{17}							
MAN	**III**	**21 10 44 10**	**13.81N**	**120.30E**	**41**	**3.9b,2.6L**		
								¶601668885
MAN	**III**	**21 10 45 29**	**13.86N**	**120.36E**	**67**	**3.7b,2.4L**		
								¶601668886
MAN	**III**	**21 13 02 51**	**13.71N**	**120.48E**	**80**	**4.2b,3.0L**		
								¶601668887
MAN	**III**	**21 16 25 25**	**13.90N**	**120.28E**	**51**	**4.5b,3.4L**		
								¶601668889
MAN	**III**	**22 13 52 37**	**13.54N**	**120.77E**	**113**	**4.2b,3.0L**		
								¶601668895
MAN	**III**	**23 18 05 12**	**13.60N**	**120.52E**	**6**	**4.5b,3.4L**		
								¶601668901
MAN	**III**	**24 18 04 08**	**13.61N**	**120.42E**	**37**	**4.3b,3.1L**		
								¶601668923
MAN	**III**	**24 20 27 10**	**13.55N**	**120.43E**	**32**	**4.4b,3.3L**		
								¶601668924
MAN	**III**	**29 22 07 02**	**12.44N**	**120.62E**	**9**	**4.1b,2.9L**		
								¶601668938
MAN	**III**	**30 02 48 21**	**12.46N**	**120.48E**	**25**	**3.9b,2.6L**		
								¶601668941
ISC	**III**	**30 12 03 51.7–.92**	**13.73N–.04**	**120.25E–.06**	**66–9**	**4.3b**	**58**	**1-111**
IDC	III	30 12 03 42.8–.64	13.85N	120.53E	0	4.3,4.1		¶16459645
ISCJB	III	30 12 03 51.0–.43	13.74N–.03	120.26E–.05	73–5	4.2b,4.1		
MAN	III	30 12 03 50	13.74N	120.24E	51	4.6b,3.4L		
NEIC	III	30 12 03 52.9–1.4	13.80N	120.57E	80–13	4.6b,3.4L		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=28.1km s-min=14.2km az=72.0.							
ISCJB	Event type fe. Error ellipse: s-maj=8.5km s-min=4.6km az=177.0.							
MAN	Event type fe. INTENSITY I - TAGAYTAY CITY.							
NEIC	Event type fe. Error ellipse: s-maj=13.1km s-min=7.5km az=61.0. Felt [I PIVS] at Tagaytay, Luzon.							
MAN	**III**	**30 17 25 27**	**13.37N**	**120.45E**	**8**	**3.9b,2.6L**		
								¶601668942
MAN	**IV**	**01 16 11 55**	**12.88N**	**120.90E**	**11**	**3.9b,2.7L**		
								¶601668952
MAN	**IV**	**02 15 14 06**	**12.44N**	**120.83E**	**16**	**4.3b,3.1L**		
								¶601668964
ISC	**IV**	**03 05 10 17.7–.90**	**13.6N–.10**	**120.5E–.20**	**200**	**3.4b**	**11**	**0-50**
IDC	IV	03 05 10 17.2–13	13.63N	120.68E	200–143	3.6,3.2		¶17199616
ISC	Event type ke.							
IDC	Error ellipse: s-maj=39.0km s-min=13.0km az=65.0.							
ISC	**IV**	**03 18 28 27.2–.61**	**13.09N–.03**	**120.01E–.04**	**57–5**	**4.5b,3.5s**	**153**	**1-120**
IDC	IV	03 18 28 19.5–.50	13.21N	120.11E	0	4.5,4.4b		¶16405110
MAN	IV	03 18 28 23	13.11N	119.89E	50	5.4b,4.7s		
BJI	IV	03 18 28 24.4	12.99N	120.12E	63	4.8b,4.5b		
ISCJB	IV	03 18 28 25.7–.40	13.14N–.03	120.05E–.03	59–4	4.6b,3.5s		
NEIC	IV	03 18 28 26.0–1.5	13.17N	119.99E	50–14	4.8b,3.5s		
BKK	IV	03 18 28 27.2–.60	14N–5.0	120E–6.0	10	5.5b,5.1		
DJA	IV	03 18 28 29.9–.50	14N–5.0	119E–6.0	10	6.0b,5.6		
ISC	Event type fe.							
ISCJB	Event type fe.							
NEIC	Event type fe. Felt at Manila, Luzon.							
MAN	**IV**	**04 04 38 37**	**13.61N**	**120.14E**	**0**	**4.0b,2.8L**		
								¶601668972
MAN	**IV**	**04 21 43 42**	**13.44N**	**120.43E**	**20**	**3.7b,2.5L**		
								¶601668975
MAN	**IV**	**05 15 05 25**	**13.02N**	**121.13E**	**7**	**4.1b,3.0L**		
								¶601668978
MAN	**IV**	**05 15 08 10**	**13.01N**	**121.02E**	**37**	**3.5b,2.2L**		
								¶601668979
MAN	**IV**	**05 16 51 58**	**13.09N**	**121.06E**	**27**	**3.9b,2.6L**		
								¶601668980
ISC	**IV**	**07 17 16 19.6–.66**	**13.85N–.05**	**120.65E–.07**	**152**	**3.6b**	**30**	**0-80**
IDC	IV	07 17 16 16.7–8.6	13.90N	120.93E	127–83	3.7,3.5		¶17200138
ISCJB	IV	07 17 16 18.9–.38	13.86N–.04	120.61E–.07	152	3.5b,3.5		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**IV**	**08 18 29 17.2–.42**	**13.87N–.02**	**120.04E–.03**	**31–2**	**5.1b,4.6s**	**559**	**1-178**
BJI	IV	08 18 29 11.2	13.65N	120.28E	20	4.9b,4.9s		¶17200272
MOS	IV	08 18 29 15.6–.92	13.91N	120.14E	33	5.3b,4.7s		
BKK	IV	08 18 29 15.5–.30	14N–4.0	120E–4.0	10	5.5,5.2b		
IDC	IV	08 18 29 17.0–2.1	13.93N	120.22E	30–14	4.7,4.7		
MAN	IV	08 18 29 16	13.84N	119.79E	33	5.9b,5.4s		
ISCJB	IV	08 18 29 19.2–.32	13.91N–.02	120.10E–.02	65–3	5.0b,5.4s		
NEIC	IV	08 18 29 20.3–.45	13.87N	120.13E	64–4	5.1b,5.4s		
GCMT	IV	08 18 29 20.3–.20	13.99N	119.89E	21–1	5.2W,5.4s		
KLM	IV	08 18 29 20.3	13.78N	120.33E	66	5.9s,5.3b		
DJA	IV	08 18 29 26.4–.40	14N–2.0	120E–2.0	99–5	5.3b,5.3		
ISC	Event type fe.							
MAN	Event type fe. INTENSITY IV - LOOC & LUBANG OCCIDENTAL MINDORO; INTENSITY III - PUERTO GALERA SAN TEODORO & BACO ORIENTAL MINDORO; MANILA & GUIGINTO BULACAN; MAKATI CITY; MUNTINLUPA CITY; MARIKINA CITY.							
ISCJB	Event type fe.							
NEIC	Event type fe. Felt [IV PIVS] at Looc and Lubang, Lubang Island and [III PIVS] at Abra de Ilog, Baco, Puerto Galera and San Teodoro. Felt [III PIVS] at Guiguinto, Makati, Manila, Marikina, Muntinlupa City and Quezon City, Luzon. Also felt at Olongapo, Salcedo and Tarlac.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c62; s72,c106;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.26±.26 $M_{\theta\theta}$0.79±.14; $M_{\phi\phi}$-4.05±.19; $M_{r\theta}$-0.22±.29; $M_{\theta\phi}$0.15±.09; $M_{\phi r}$-6.21±.64; Best double couple: NP1:ϕ_s182.00000°,δ75.00000°,λ92.00000°. NP2:ϕ_s353.00000°,δ15.00000°,λ81.00000°. Principal axes: T 6.8220,Plg60.0000°,Azm95.0000°; N 0.7820,Plg2.0000°,Azm1.0000° ; P -7.6010,Plg30.0000°,Azm270.0000° M_o7.21200×10^{16}							
ISC	**IV**	**10 07 28 10.4–1.6**	**13.48N–.07**	**120.1E–.10**	**16**	**3.8b**	**11**	**1-46**
ISCJB	IV	10 07 28 09.6–1.9	13.51N–.09	120.0E–.20	16	3.9b		¶17200436
MAN	IV	10 07 28 11	13.36N	120.08E	7	4.1b,2.9L		
IDC	IV	10 07 28 11.6–1.2	13.11N	120.72E	0	4.1,3.8b		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=25.1km s-min=8.1km az=23.9.							
IDC	Error ellipse: s-maj=155.0km s-min=19.8km az=67.0.							
MAN	**IV**	**14 01 17 54**	**13.53N**	**120.75E**	**53**	**4.1b,2.9L**		
								¶601669015
MAN	**IV**	**15 11 49 43**	**13.69N**	**120.29E**	**5**	**4.0b,2.8L**		
								¶601669021
MAN	**IV**	**16 09 05 45**	**13.56N**	**120.70E**	**119**	**4.0b,2.7L**		
								¶601669028
MAN	**IV**	**16 12 02 15**	**12.56N**	**121.15E**	**15**	**4.4b,3.2L**		
								¶601669030
MAN	**IV**	**17 06 39 57**	**13.07N**	**121.12E**	**1**	**4.3b,3.1L**		
								¶601669032
MAN	**IV**	**18 22 29 11**	**13.73N**	**121.43E**	**36**	**4.3b,3.2L**		
								¶601669036
MAN	**IV**	**20 06 07 48**	**12.59N**	**120.59E**	**7**	**4.2b,3.0L**		
								¶601669040
ISC	**IV**	**20 06 17 08.4–1.4**	**12.55N–.04**	**120.49E–.05**	**3–10**	**3.7b,3.0s**	**23**	**1-94**
ISCJB	IV	20 06 17 10.5–.78	12.55N–.04	120.56E–.05	20–7	3.7b,3.0s		¶17201594
MAN	IV	20 06 17 10	12.47N	120.63E	13	4.6b,3.4L		

IDC IV 20 06 17 13.2–3.8 12.61N 120.81E 35–32 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.5km az=38.8.
IDC Error ellipse: s-maj=37.5km s-min=17.4km az=66.0.
MAN IV 20 06 45 43 12.55N 120.66E 31 4.4b,3.3L ¶601669041
MAN IV 20 08 03 23 12.65N 120.62E 14 4.1b,2.9L ¶601669042
MAN IV 20 13 48 16 12.61N 120.55E 20 4.3b,3.2L ¶601669043
MAN IV 20 13 52 59 12.54N 120.69E 33 3.8b,2.6L ¶601669044
ISC IV 20 21 56 35.3–1.5 12.49N–.05 120.45E–.05 27–11 4.0b 33 1-94
IDC IV 20 21 56 31.2–.75 12.63N 120.74E 0 4.1,4.0 **¶16505461**
MAN IV 20 21 56 35 12.38N 120.49E 28 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=17.2km az=65.0.
ISC IV 20 23 24 20.2–1.3 13.49N–.05 120.73E–.05 8–9 3.6b 22 0-50
MAN IV 20 23 24 18 13.51N 120.65E 2 4.4b,3.3L **¶17201649**
IDC IV 20 23 24 18.8–1.1 13.54N 120.89E 0 3.9,3.6b
ISCJB IV 20 23 24 19.4–1.0 13.50N–.04 120.69E–.04 10–7 3.6b,3.5s
ISC Event type fe.
MAN Event type fe. INTENSITY II - PUERTO GALERA ORIENTAL MINDORO.
ISCJB Event type fe.
MAN IV 21 23 16 20 13.87N 120.56E 124 4.9b,3.8L ¶601669055
MAN IV 23 05 17 22 13.16N 120.22E 35 3.9b,2.7L ¶601669061
MAN IV 23 21 42 58 13.64N 120.59E 138 4.2b,3.0L ¶601669067
MAN IV 24 15 00 17 13.47N 120.52E 32 4.6b,3.5L ¶601669069
ISC IV 25 16 18 53.4–1.4 13.39N–.08 120.2E–.10 21–5 16 1-39
MAN IV 25 16 18 54 13.36N 120.23E 22 4.2b,3.0L **¶601669076**
IDC IV 25 16 19 22.2–2.4 10.41N 123.26E 0 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=223.3km s-min=25.4km az=63.0.
MAN IV 26 18 09 26 13.53N 120.10E 32 4.3b,3.2L ¶601669080
MAN IV 26 22 39 24 13.19N 120.24E 33 4.1b,2.9L ¶601669081
ISC IV 26 23 04 27.4–.91 13.83N–.07 120.5E–.10 100 3.5b 12 1-93
IDC IV 26 23 04 15.5–1.3 14.12N 121.17E 0 3.8,3.6 **¶17202192**
ISCJB IV 26 23 04 26.3–.79 13.91N–.07 120.38E–.10 100 3.4b,3.6
MAN IV 26 23 04 28 13.79N 120.47E 76 4.2b,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=93.8km s-min=25.1km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=9.3km az=5.9.
MAN IV 27 18 50 09 12.24N 121.95E 9 4.5b,3.4L ¶601669086
MAN V 02 11 54 58 12.56N 120.93E 8 4.3b,3.2L ¶601669107
MAN V 02 19 00 01 13.14N 120.77E 45 4.1b,2.9L ¶601669108
MAN V 04 14 19 47 13.93N 120.29E 43 3.9b,2.7L ¶601669112
MAN V 10 00 02 14 13.63N 120.59E 83 3.5b,2.2L ¶601669146
MAN V 10 15 17 34 13.48N 121.77E 42 4.0b,2.8L ¶601669150
MAN V 11 19 00 18 13.55N 120.25E 34 3.6b,2.3L ¶601669155
MAN V 14 04 58 49 13.77N 121.68E 32 3.7b,2.4L ¶601669169
ISC V 15 19 43 00.2–.81 13.85N–.05 120.5E–.10 200 3.6b 21 0-152
IDC V 15 19 43 00.1–.56 13.99N 120.89E 230–4 3.8,3.5 **¶17203706**
ISCJB V 15 19 43 01.6–.54 13.86N–.05 120.5E–.10 200 3.5b,3.5
MAN V 15 19 43 01 13.88N 120.61E 197 4.4b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=12.7km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=7.1km az=174.9.
MAN V 17 23 00 01 13.13N 120.77E 45 4.1b,2.9L ¶601669191
MAN V 19 20 30 07 12.58N 120.41E 1 4.4b,3.2L ¶601669197
ISC V 21 14 13 01.5–.79 13.43N–.04 120.69E–.05 79–6 3.7b 28 0-79
ISCJB V 21 14 13 00.7–.42 13.42N–.04 120.66E–.05 87–4 3.7b **¶17204140**
MAN V 21 14 13 01 13.37N 120.66E 52 4.6b,3.5L
IDC V 21 14 13 01.7–.84 13.61N 121.16E 89–5 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.8km az=167.7.
IDC Error ellipse: s-maj=35.8km s-min=15.3km az=63.0.
ISC V 22 15 20 54.8–.74 13.62N–.04 120.63E–.05 130–6 3.8b 34 0-120
IDC V 22 15 20 38.5–.96 13.88N 121.41E 0 4.0,3.9 **¶16593306**
NEIC V 22 15 20 43.6–.51 13.83N 121.29E 35 4.0b,3.9
ISCJB V 22 15 20 53.8–.40 13.61N–.04 120.64E–.05 135–4 3.7b,3.9
MAN V 22 15 20 55 13.63N 120.66E 110 4.3b,3.1L
ISC Event type se.
IDC Error ellipse: s-maj=52.0km s-min=18.4km az=60.0.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=9.3km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.0km az=171.8.
ISC V 22 16 42 23.5–.21 13.62N–.02 120.81E–.03 139–1 5.5b 1745 0-177
MOS V 22 16 42 22.5–.91 13.61N 120.84E 143 5.4b,4.7s **¶16532394**
MAN V 22 16 42 23 13.65N 120.71E 103 6.0b,5.7s
ISCJB V 22 16 42 23.8–.23 13.63N–.01 120.85E–.02 154–2 5.4b,5.7s
NEIC V 22 16 42 23.0–.00 13.67N 120.72E 134 5.4b,5.7s
BJI V 22 16 42 23.1 13.58N 120.94E 158 5.6b,5.5b
IDC V 22 16 42 23.1–.38 13.59N 120.75E 133–3 5.5,5.2
NEIC V 22 16 42 24.5–.44 13.60N 120.75E 149–4 5.7W,5.7W
GCMT V 22 16 42 24.5–.10 13.67N 120.68E 128–0 5.7W,5.7W
KLM V 22 16 42 24.1 13.66N 120.80E 141 6.1s,5.7b
BKK V 22 16 42 28.3–.60 14N–4.0 121E–3.0 171–5 6.0,5.8
DJA V 22 16 42 29.7–.40 14N–2.0 121E–3.0 196–5 5.8b,5.7
ISC Event type fe.
MAN Event type fe. INTENSITY IV - ILIJAN BATANGAS; INTENSITY III - TAGAYTAY CITY; MALATE MANILA; PTO GALERA ORIENTAL MINDORO; TAGAYTAY CITY; ALABANG MUNTINLUPA; CLARK PAMPANGA; INTENSITY II - MALOLOS BULACAN; INTENSITY I - NICHOLS PASAY.
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. s41 Moment tensor: Scale 10^{17}Nm; M_{rr}3.80 $M_{\theta\theta}$-0.50 $M_{\phi\phi}$-3.20 $M_{r\theta}$0.30 $M_{\theta\phi}$0.70 $M_{\phi r}$1.20 Best double couple: NP1:ϕ_s354.00000° ,δ54.00000°,λ98.00000°. NP2:ϕ_s160.00000°,δ36.00000°,λ78.00000°. Principal axes: T 4.0000,Plg78.0000°,Azm295.0000°; N -0.4000,Plg6.0000°,Azm169.0000° ; P -3.6000,Plg8.0000°,Azm78.0000° M_o4.00000×10^{17}
NEIC Event type fe. Felt [IV PIVS] at Abra de Ilog and [III PIVS] at Calapan and Puerto Galera. Also felt at Naujan. Felt [IV PIVS] at Ilijan; [III PIVS] at Alabang, Clark Field, Malate and Tagaytay; [II PIVS] at Malolos; [I PIVS] at Nichols; [IV] at Batangas and Olongapo; [II] at Cavite, Manila and Santa Rosa, Luzon. Felt widely in central Luzon and as far as Abucay. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}3.95 $M_{\theta\theta}$-0.28 $M_{\phi\phi}$-3.67 $M_{r\theta}$0.64 $M_{\theta\phi}$0.60 $M_{\phi r}$1.44 Best double couple: NP1:ϕ_s160.00000°,δ37.00000°,λ72.00000°. NP2:ϕ_s1.00000°,δ55.00000°,λ103.00000°. Principal axes: T 4.3300,Plg76.0000° ,Azm310.0000°; N -0.3400,Plg10.0000°,Azm174.0000°; P -4.0000,Plg10.0000° ,Azm83.0000° M_o4.20000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c223; s128,c328;Duration: 1ŝ7 Moment tensor: Scale 10^{17} Nm; M_{rr}4.04±.03 $M_{\theta\theta}$-0.59±.04; $M_{\phi\phi}$-3.45±.04; $M_{r\theta}$0.23±.03; $M_{\theta\phi}$0.74±.04; $M_{\phi r}$1.36±.04; Best double couple: NP1:ϕ_s353.00000°,δ55.00000°,λ98.00000°. NP2:ϕ_s160.00000° ,δ36.00000°,λ79.00000°. Principal axes: T 4.3050,Plg79.0000°,Azm292.0000° ; N -0.4720,Plg6.0000°,Azm169.0000°; P -3.8360,Plg9.0000°,Azm78.0000° M_o4.07100×10^{17}
MAN V 23 11 50 01 13.89N 120.53E 63 3.6b,2.3L ¶601669220
MAN V 24 06 37 17 13.07N 120.64E 33 3.6b,2.3L ¶601669227
MAN V 24 11 39 55 13.79N 120.67E 95 3.5b,2.2L ¶601669229
MAN V 27 19 15 43 13.60N 120.55E 84 3.7b,2.4L ¶601669247
MAN V 30 12 00 48 12.90N 121.28E 1 3.7b,2.4L ¶601650927
MAN V 31 04 12 30 13.86N 120.69E 99 3.8b,2.6L ¶601650929
MAN V 31 19 31 10 13.81N 120.59E 99 4.2b,3.0L ¶601650932
MAN VI 03 11 44 34 13.58N 121.07E 3 3.8b,2.5L ¶601651104
MAN VI 03 16 33 18 13.21N 121.21E 26 3.6b,2.4L ¶601651105
MAN VI 03 17 30 14 13.25N 120.45E 27 4.0b,2.7L ¶601651106
MAN VI 04 20 19 22 13.42N 120.80E 10 4.4b,3.3L ¶601651212
MAN Event type fe. INTENSITY II - PUERTO GALERA ORIENTAL MINDORO.
MAN VI 04 20 22 23 13.39N 120.87E 19 4.1b,2.9L ¶601651213
MAN Event type fe. INTENSITY II - PUERTO GALERA ORIENTAL MINDORO.
MAN VI 05 23 31 49 13.71N 120.56E 91 3.9b,2.7L ¶601653061
MAN VI 07 05 49 09 13.44N 120.80E 1 4.1b,2.9L ¶601653484
IDC VI 08 09 02 53.2–3.1 13.88N 121.48E 140–18 3.5,3.3 ¶17205544
IDC Error ellipse: s-maj=175.5km s-min=23.6km az=62.0.
MAN VI 09 16 10 56 13.30N 120.26E 15 4.2b,3.0L ¶601653806
MAN VI 20 18 44 43 13.63N 120.95E 0 4.0b,2.7L ¶601654510
ISC VI 21 05 02 52.8–.98 13.58N–.04 120.63E–.07 99–7 3.7b 27 0-39
ISCJB VI 21 05 02 52.1–.59 13.57N–.04 120.64E–.06 108–5 3.7b **¶17206653**
IDC VI 21 05 02 52.1–2.9 13.75N 121.41E 96–34 3.7,3.6
MAN VI 21 05 02 53 13.56N 120.62E 76 4.5b,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.3km az=16.6.
IDC Error ellipse: s-maj=184.2km s-min=20.9km az=71.0.
MAN VI 21 07 22 21 13.44N 120.79E 4 4.1b,2.9L ¶601654590
MAN VI 25 09 15 53 13.39N 120.37E 15 3.9b,2.6L ¶601654950
MAN VI 27 17 50 47 13.03N 120.89E 21 3.6b,2.4L ¶601655121
MAN VI 27 20 28 31 13.21N 120.92E 22 3.9b,2.7L ¶601655125
MAN VI 30 12 47 53 13.90N 120.44E 116 3.7b,2.4L ¶601655346

(251) Samar.

MAN I 02 11 01 23 11.17N 125.77E 20 4.3b,3.2L ¶601668371
ISC I 03 19 55 15.6–1.3 11.7N–.10 125.7E–.10 35 3.2b 8 1-55
IDC I 03 19 55 11.7–1.7 11.39N 125.11E 0 3.5,3.3 **¶17189358**
ISCJB I 03 19 55 13.5–.99 11.79N–.09 125.7E–.10 35 3.2b,3.3
ISC Event type ke.
ISCJB Event type ke.
IDC I 08 03 08 05.7–6.1 12.68N 125.59E 0 3.4,3.2 ¶17189667
IDC Error ellipse: s-maj=494.2km s-min=30.5km az=65.0.
ISC I 26 10 07 23.6–1.1 12.16N–.08 125.3E–.10 66 3.5b 12 1-78
IDC I 26 10 07 15.6–1.1 12.19N 125.15E 0 3.9,3.7b **¶17191027**
ISCJB I 26 10 07 22.2–.86 12.15N–.06 125.2E–.10 66 3.5b,3.7b
ISC Event type ke.
ISCJB Event type ke.
MAN II 06 03 49 05 12.71N 125.86E 38 4.8b,3.8s ¶601668518
ISC II 06 12 49 10.2–1.4 12.57N–.06 125.5E–.10 33 3.4b 12 1-50
MAN II 06 12 49 05 12.71N 125.86E 37 4.8b,3.8s **¶17191791**
IDC II 06 12 49 05.1–3.9 12.56N 125.52E 0 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=309.2km s-min=26.2km az=65.0.
ISC II 16 15 51 23.9–1.4 11.82N–.06 125.64E–.07 32–10 3.7b,3.2s 34 0-83
IDC II 16 15 51 18.6–.86 11.68N 125.61E 0 4.0,3.8b **¶16158787**
ISCJB II 16 15 51 23.4–1.0 11.84N–.05 125.69E–.07 45–10 3.9b,3.2s
NEIC II 16 15 51 23.7–.49 11.69N 125.67E 35 4.7b,3.2s
MAN II 16 15 51 23 11.86N 125.61E 22 4.7b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=71.2km s-min=15.2km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=11.4km s-min=7.2km az=155.3.
NEIC Event type se. Error ellipse: s-maj=39.4km s-min=8.4km az=74.0.
MAN II 25 18 11 03 11.45N 125.84E 1 4.4b,3.2L ¶601668620
MAN III 02 14 10 22 12.29N 125.03E 32 4.3b,3.2L ¶601668639
ISC III 07 10 30 49.3–2.1 12.92N–.06 125.12E–.09 5–12 3.7b 18 1-52
ISCJB III 07 10 30 53.9–2.5 12.85N–.07 124.97E–.09 13–21 3.7b **¶17193407**
MAN III 07 10 30 55 12.90N 124.99E 36 4.8b,3.8s
IDC III 07 10 30 56.4–1.5 11.73N 124.63E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=7.9km az=148.5.
IDC Error ellipse: s-maj=200.3km s-min=18.1km az=68.0.
ISC III 08 06 02 06.7–1.1 11.30N–.08 125.81E–.10 49 3.4b 17 1-55
IDC III 08 06 01 59.7–1.2 11.26N 125.90E 0 3.6,3.5b **¶17193453**
ISCJB III 08 06 02 05.0–.82 11.32N–.06 125.85E–.08 49 3.4b,3.1s
MAN III 08 06 02 06 11.08N 125.70E 4 4.4b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=64.0km s-min=18.3km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=8.8km az=12.4.
ISC III 12 23 12 27.2–.87 12.21N–.05 124.98E–.06 77–9 4.2b 51 1-95
IDC III 12 23 12 17.2–.82 12.12N 124.98E 0 4.0,3.9 **¶16476701**
NEIC III 12 23 12 25.6–.92 12.10N 124.99E 64–8 4.3b,3.9
MAN III 12 23 12 25 12.24N 124.97E 58 4.5b,3.3L
ISCJB III 12 23 12 26.1–.52 12.18N–.05 125.00E–.05 83–6 4.2b,3.3L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
MAN III 27 20 22 56 11.30N 125.39E 34 4.0b,2.8L ¶601668931
ISC IV 03 07 05 06.6–1.0 12.95N–.07 124.57E–.09 44 3.6b 15 2-51
IDC IV 03 07 05 00.6–1.5 12.79N 124.15E 0 3.6,3.5 **¶17199629**
MAN IV 03 07 05 01 12.98N 124.53E 169 4.8b,3.7L
ISCJB IV 03 07 05 04.6–.79 12.96N–.06 124.62E–.07 44 3.4b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC IV 04 17 59 57.7–.49 12.16N–.05 125.83E–.07 28 4.3b,3.0s 77 1-92
IDC IV 04 17 59 53.0–.59 12.05N 125.76E 0 4.2,4.1b **¶16455844**
ISCJB IV 04 17 59 56.1–.38 12.22N–.03 125.84E–.05 28 4.2b,3.0s
MAN IV 04 17 59 56 12.20N 125.84E 29 5.1b,4.2s
NEIC IV 04 18 00 00.4–3.7 12.02N 125.73E 55–35 4.5b,4.2s
DJA IV 04 18 00 07.7–2.2 12N–11 126E–11 125–20 5.3b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 09 18 32 07.3–1.3 12.62N–.06 124.98E–.07 61–13 4.0b 50 1-92
IDC V 09 18 32 05.1–3.4 12.53N 125.02E 44–33 4.4L,4.1 **¶16709281**
NEIC V 09 18 32 05.6–1.6 12.56N 125.03E 48–15 4.5b,4.1

ISCJB V 09 18 32 06.3–.78 12.59N–.05 125.02E–.06 69–8 4.0b,4.1
MAN V 09 18 32 06 12.60N 124.87E 29 5.0b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=23.8km s-min=13.3km az=69.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=6.9km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=6.1km az=147.4.
MAN V 23 02 48 23 11.48N 125.53E 27 3.8b,2.5L ¶601669216
MAN VI 17 17 38 26 11.40N 125.65E 0 4.6b,3.5L ¶601654351
MAN VI 22 12 49 32 12.23N 124.11E 32 4.4b,3.2L ¶601654648
MAN VI 23 11 26 43 11.32N 125.45E 41 4.2b,3.1L ¶601654775
ISC VI 29 13 20 58.4–1.8 12.92N–.03 124.69E–.06 1–11 3.8b 43 1-90
ISCJB VI 29 13 20 59.3–1.2 12.96N–.03 124.73E–.06 19–9 3.7b,3.2s ¶17207198
MAN VI 29 13 20 59 12.94N 124.64E 13 4.7b,3.6L
IDC VI 29 13 21 05.7–5.1 12.78N 124.67E 62–48 4.3L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.0km az=169.8.
IDC Error ellipse: s-maj=46.5km s-min=14.9km az=68.0.

(253) Sulu Sea.

MAN V 14 21 26 41 9.82N 121.88E 33 4.1b,2.9L ¶601669172
MAN V 15 09 03 04 9.77N 121.93E 24 4.0b,2.8L ¶601669176
MAN VI 07 23 59 32 9.79N 121.81E 120 4.3b,3.2L ¶601653487

(254) Panay.

ISC I 02 06 38 21.1–1.2 10.17N–.05 122.51E–.06 48–15 3.5b 21 1-51
IDC I 02 06 38 13.7–1.1 9.83N 122.52E 0 3.8,3.6 ¶17189189
MAN I 02 06 38 19 10.27N 122.55E 52 4.9b,4.0s
ISCJB I 02 06 38 20.4–.68 10.18N–.04 122.57E–.06 51–11 3.5b,4.0s
ISC Event type fe.
MAN Event type fe. INTENSITY III - ILOILO CITY GUIMARAS; INTENSITY I - BINALBAGAN NEGROS OCCIDENTAL.
ISCJB Event type fe.
IDC I 18 03 45 14.3–33 10.42N 122.24E 0 4.0,3.9 ¶17190449
IDC Error ellipse: s-maj=579.0km s-min=332.0km az=148.0.
MAN I 28 10 53 30 11.23N 122.60E 2 4.2b,3.0L ¶601668476
MAN Event type fe. INTENSITY II - BINGAWAN ILOILO; DUMALAG CAPIZ; TAPAZ CAPIZ.
MAN I 30 02 00 35 11.23N 122.58E 11 4.2b,3.1L ¶601668485
MAN Event type fe. INTENSITY II - BINGAWAN ILOILO; DUMALAG CAPIZ; TAPAZ CAPIZ.
MAN II 01 13 22 49 10.76N 122.55E 20 4.0b,2.9L ¶601668499
MAN Event type fe. INTENSITY I - GUIMARAS ISLAND.
ISC II 28 21 34 24.1–.91 10.43N–.05 122.39E–.08 32 3.5b 15 0-53
IDC II 28 21 34 16.5–1.2 10.49N 122.91E 0 3.7,3.6 ¶17193021
ISCJB II 28 21 34 26.3–.88 10.51N–.05 122.48E–.08 32 3.6s,3.5b
MAN II 28 21 34 28 10.54N 122.69E 57 4.3b,3.2L
ISC Event type fe.
IDC Error ellipse: s-maj=65.9km s-min=19.0km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=11.6km s-min=6.7km az=172.5.
MAN Event type fe. INTENSITY I - JORDAN GUIMARAS.
MAN IV 04 20 54 21 11.27N 122.64E 10 4.2b,3.1L ¶601668974
MAN Event type fe. INTENSITY IV - DUMARAO CAPIZ; INTENSITY III - BINGAWAN ILOILO; INTENSITY II - CUARTERO DUMALAG MAMBUSAO SIGMA IVISAN SAPIAN CAPIZ; ROXAS CITY.
MAN IV 06 09 31 28 10.85N 122.39E 8 4.1b,2.9L ¶601668983
MAN Event type fe. INTENSITY II - JANIUAY ILOILO.
MAN IV 21 14 43 30 10.45N 122.88E 32 3.7b,2.4L ¶601669049
IDC V 24 11 43 03.8–3.2 10.63N 121.27E 0 3.8,3.5 ¶17204378
IDC Error ellipse: s-maj=424.3km s-min=25.2km az=62.0.
MAN V 24 16 46 42 11.37N 121.93E 1 4.1b,3.0L ¶601669231
MAN V 24 20 18 20 11.45N 122.33E 45 4.2b,3.0L ¶601669235
ISC V 29 09 15 24.7–.68 10.65N–.03 122.18E–.03 47–6 4.5b,3.8s 188 0-174
IDC V 29 09 15 16.9–.42 10.62N 122.27E 0 4.9L,4.4 ¶16577350
MAN V 29 09 15 21 10.60N 122.10E 21 5.6b,5.0s
ISCJB V 29 09 15 23.0–.30 10.72N–.02 122.28E–.03 49–3 4.5b,3.9s
NEIC V 29 09 15 23.1–.78 10.66N 122.39E 44–7 4.7b,3.9s
KLM V 29 09 15 27.7 10.41N 122.30E 48 5.9s,4.6b
DJA V 29 09 15 34.7–1.3 10N–6.0 122E–6.0 62–15 5.5b,4.9
ISC Event type fe.
MAN Event type fe. INTENSITY IV - SIBALOM ANTIQUE; INTENSITY III - ILOILO CITY; SAN JOSE PATNOGON AND HAMTIC ANTIQUE.
ISCJB Event type fe.
NEIC Event type fe. Felt [V PIVS] at Tubungan, [IV PIVS] at Sibalom and [III PIVS] at Hamtic, Iloilo, Patnongon and San Jose. Also felt at Tigbauan.
IDC VI 02 18 07 25.7–1.6 11.71N 121.47E 0 4.2,4.0b ¶17205015
IDC Error ellipse: s-maj=256.8km s-min=25.2km az=66.0.
MAN VI 04 17 54 47 10.75N 122.62E 20 4.5b,3.4L ¶601651211
MAN VI 16 07 30 20 10.71N 122.33E 1 4.7b,3.6L ¶601654305
MAN Event type fe. INTENSITY III - ILOILO CITY.

(255) Cebu.

MAN IV 29 18 27 19 10.24N 123.01E 1 4.5b,3.3L ¶601669089
MAN Event type fe. INTENSITY III - HINIGARAN NEGROS OCCIDENTAL.
IDC VI 02 18 06 04.0–1.2 10.92N 123.35E 0 4.0,3.8b ¶17205014
IDC Error ellipse: s-maj=63.0km s-min=18.9km az=63.0.

(256) Leyte.

MAN I 04 17 36 12 10.35N 125.15E 19 4.4b,3.3L ¶601668377
IDC I 06 06 50 53.1–1.9 10.31N 125.86E 0 3.6,3.6 ¶17189575
IDC Error ellipse: s-maj=186.1km s-min=24.1km az=70.0.
IDC I 06 10 15 59.5–3.5 10.58N 124.97E 0 3.5,3.3 ¶17189587
IDC Error ellipse: s-maj=306.5km s-min=28.5km az=64.0.
MAN I 06 19 21 57 11.14N 124.60E 3 4.5b,3.3L ¶601668384
MAN I 08 21 33 38 11.12N 124.54E 8 4.2b,3.1L ¶601668390
MAN I 10 12 48 36 10.42N 124.23E 22 4.2b,3.1L ¶601668403
MAN I 18 03 47 53 11.17N 124.66E 8 3.8b,2.6L ¶601668432
MAN I 18 17 23 16 11.46N 124.34E 13 4.2b,3.1L ¶601668434
MAN I 19 06 16 09 10.27N 125.97E 24 4.3b,3.1L ¶601668436
IDC I 20 18 01 25.4–2.0 10.15N 125.43E 0 3.8s,3.8 ¶16396406
IDC Error ellipse: s-maj=200.9km s-min=26.0km az=70.0.
ISC I 30 11 24 48.5–2.0 10.19N–.05 125.57E–.07 4–15 16 0-27
ISCJB I 30 11 24 48.9–1.5 10.19N–.05 125.56E–.07 5–9 3.5b ¶601668487
MAN I 30 11 24 50 10.16N 125.50E 1 4.6b,3.4L
IDC I 30 11 25 55.1–10 12.74N 120.08E 0 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=5.1km az=148.7.
IDC Error ellipse: s-maj=385.1km s-min=31.1km az=40.0.
MAN II 03 23 45 55 10.05N 125.64E 108 4.4b,3.2L ¶601668509
ISC II 11 09 11 20.0–1.3 10.38N–.04 125.27E–.05 12–9 3.8b,3.4s 33 0-94
IDC II 11 09 11 18.2–.84 10.40N 125.38E 0 3.9,3.8b ¶16358581
NEIC II 11 09 11 19.9–.56 10.39N 125.54E 10 4.0b,3.8b
ISCJB II 11 09 11 20.8–.68 10.38N–.03 125.22E–.05 32–5 3.7b,3.2s
MAN II 11 09 11 20 10.43N 125.08E 8 4.8b,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=53.2km s-min=16.9km az=75.0.
NEIC Event type fe. Error ellipse: s-maj=31.5km s-min=10.2km az=81.0. Felt [III PIVS] at Saint Bernard and [II PIVS] at Libagon and San Juan.
ISCJB Event type fe. Error ellipse: s-maj=8.3km s-min=5.1km az=156.6.
MAN Event type fe. INTENSITY III - ST BERNARD SOUTHERN LEYTE; INTENSITY II - LIBAGON AND SAN JUAN SOUTHERN LEYTE.
MAN II 13 13 06 16 11.26N 124.57E 7 4.6b,3.5L ¶601668551
ISC II 18 12 39 04.5–1.4 11.63N–.04 124.30E–.05 9–9 4.3b,3.4s 68 1-94
IDC II 18 12 39 03.1–.68 11.64N 124.37E 0 4.1,4.0 ¶16398480
MAN II 18 12 39 03 11.59N 124.22E 1 4.8b,3.7L
NEIC II 18 12 39 11.7–2.1 11.68N 124.54E 69–20 4.5b,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=31.9km s-min=14.9km az=68.0.
MAN Event type fe. INTENSITY III - NAVAL BILIRAN PROVINCE; LEYTE LEYTE; INTENSITY II - SAN ISIDRO LEYTE.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=7.2km az=67.0. Felt [III PIVS] at Leyte and Naval and [II PIVS] at San Isidro.
MAN II 19 14 20 30 11.39N 124.97E 8 4.6b,3.5L ¶601668581
MAN II 19 19 34 21 10.36N 125.02E 34 4.3b,3.1L ¶601668584
MAN II 20 15 50 45 11.29N 124.26E 3 4.1b,2.9L ¶601668590
MAN II 20 17 45 32 10.73N 124.95E 22 4.0b,2.8L ¶601668594
MAN II 24 06 31 19 10.98N 124.75E 1 4.2b,3.1L ¶601668612
MAN II 24 06 37 54 11.04N 124.70E 8 4.1b,2.9L ¶601668613
MAN II 24 08 57 24 11.01N 124.49E 14 3.9b,2.6L ¶601668615
MAN II 24 09 42 30 10.90N 124.53E 46 3.7b,2.4L ¶601668616
MAN II 25 05 05 01 10.80N 124.57E 32 3.5b,2.2L ¶601668619
MAN III 04 23 59 10 10.36N 125.21E 0 4.3b,3.1L ¶601668670
MAN III 05 08 12 01 10.31N 125.30E 26 4.0b,2.8L ¶601668672
MAN Event type fe. INTENSITY III - ST BERNARD HINUNANGAN SOGOD SOUTHERN LEYTE; INTENSITY I - HINUNDAYAN SOUTHERN LEYTE.
ISC III 05 12 36 07.6–1.5 10.48N–.04 125.07E–.05 12–11 3.6b 21 0-85
IDC III 05 12 36 05.7–1.7 10.59N 125.57E 0 3.7,3.6b ¶17193281
ISCJB III 05 12 36 08.9–.69 10.47N–.04 125.13E–.06 27–5 3.8s,3.6b
MAN III 05 12 36 08 10.45N 124.99E 1 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=173.9km s-min=19.8km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.6km az=162.2.
ISC III 10 22 40 20.3–.94 10.49N–.04 125.03E–.07 15 3.7b 16 0-54
IDC III 10 22 40 19.1–2.2 10.26N 124.91E 0 3.8,3.6 ¶17193662
ISCJB III 10 22 40 19.7–.73 10.39N–.04 125.19E–.06 15 3.6b,3.6
MAN III 10 22 40 20 10.45N 125.05E 10 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=231.5km s-min=22.8km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=172.9.
MAN III 12 03 48 21 10.47N 125.81E 20 4.5b,3.4L ¶601668712
MAN III 19 19 00 22 11.23N 124.64E 32 4.3b,3.2L ¶601668871
MAN III 20 21 20 48 10.60N 125.42E 7 4.4b,3.2L ¶601668876
ISC III 27 22 29 46.7–.84 11.47N–.05 124.45E–.05 15 4.5b 16 1-79
IDC III 27 22 29 44.5–5.0 11.50N 124.92E 0 4.6,4.5 ¶17198859
ISCJB III 27 22 29 46.9–.60 11.48N–.04 124.38E–.05 15 4.4b,4.5
MAN III 27 22 29 47 11.51N 124.38E 23 5.2b,4.3s
ISC Event type fe.
IDC Error ellipse: s-maj=110.8km s-min=53.5km az=180.0.
ISCJB Event type fe. Error ellipse: s-maj=7.6km s-min=5.2km az=135.9.
MAN Event type fe. INTENSITY IV - NAVAL BILIRAN; INTENSITY III - LEYTE; LEYTE; INTENSITY II - CAPOOCAN.
MAN III 27 23 52 36 11.42N 124.45E 22 4.2b,3.0L ¶601668932
MAN III 28 11 52 47 11.43N 124.36E 8 4.2b,3.0L ¶601668933
MAN IV 02 15 28 31 11.21N 124.72E 15 4.0b,2.8L ¶601668965
MAN IV 08 15 08 04 10.94N 124.43E 1 4.6b,3.5L ¶601668990
MAN Event type fe. INTENSITY III - ISABEL LEYTE; INTENSITY II - PALOMPON & ORMOC CITY LEYTE.
ISC IV 10 17 35 24.3–1.4 10.67N–.04 124.94E–.05 6–9 3.9b 29 0-94
IDC IV 10 17 35 22.9–.78 10.51N 124.69E 0 4.4L,3.8 ¶16706306
MAN IV 10 17 35 23 10.95N 125.05E 31 4.9b,3.9L
ISCJB IV 10 17 35 24.5–.84 10.72N–.03 124.97E–.05 19–7 3.8b,3.9L
NEIC IV 10 17 35 28.1–.52 10.51N 124.74E 35 4.2b,3.9L
ISC Event type fe.
IDC Error ellipse: s-maj=56.5km s-min=12.6km az=72.0.
MAN Event type fe. INTENSITY III - DULAG & ABUYOG LEYTE; INTENSITY II - TOLOSA LEYTE.
ISCJB Event type fe. Error ellipse: s-maj=8.5km s-min=5.5km az=2.7.
NEIC Event type fe. Error ellipse: s-maj=39.7km s-min=9.0km az=75.0. Felt [III PIVS] at Abuyog and Dulag and [II PIVS] at Tolosa.
ISC IV 13 18 21 29.2–1.4 10.43N–.03 125.11E–.05 1–9 4.0b,3.3s 32 1-94
IDC IV 13 18 21 28.9–.78 10.47N 125.12E 0 3.9,3.8 ¶16587492
MAN IV 13 18 21 29 10.52N 125.06E 9 4.5b,3.3L
NEIC IV 13 18 21 34.2–.54 10.46N 125.18E 35 4.4b,3.3L
ISC Event type se.
IDC Error ellipse: s-maj=43.7km s-min=15.4km az=75.0.
NEIC Event type se. Error ellipse: s-maj=33.9km s-min=11.0km az=73.0.
MAN IV 15 17 37 44 10.99N 124.52E 9 4.5b,3.4L ¶601669022
MAN Event type fe. INTENSITY II - ORMOC CITY; ISABEL & MERIDA LEYTE.
MAN IV 21 19 32 10 10.33N 125.70E 16 4.4b,3.2L ¶601669052
MAN IV 23 09 35 43 11.23N 124.61E 12 4.5b,3.3L ¶601669063
MAN Event type fe. INTENSITY II - TANANGA & CAPOOCAN LEYTE.
MAN IV 25 06 45 50 10.18N 125.09E 47 4.2b,3.0L ¶601669074
IDC IV 25 22 38 53.3–2.3 10.44N 124.94E 0 3.6,3.5 ¶17202085
IDC Error ellipse: s-maj=294.1km s-min=34.1km az=70.0.
MAN V 01 00 12 23 11.06N 124.61E 19 4.2b,3.0L ¶601669101
ISC V 21 14 56 58.3–1.3 10.39N–.03 125.57E–.05 27–9 4.1b,3.2s 84 1-147
NEIC V 21 14 56 55.7–.52 10.34N 125.83E 10 4.4b,3.2s ¶16710519

MAN V 21 14 56 59 10.40N 125.56E 33 5.3b,4.5s
IDC V 21 14 57 03.8–2.8 10.24N 125.41E 80–27 4.0,3.8
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=23.8km s-min=9.1km az=86.0. Felt [V PIVS] at Libjo; [IV PIVS] at Loreto and San Jose; [III PIVS] at Dinagat; [II PIVS] at Basilisa and Cagdianao, Dinagat Island. Also felt [II PIVS] at Anahawan and Hinundayan, Leyte. Felt [I PIVS] at Surigao, Mindanao.
MAN Event type fe. INTENSITY V - LIBJO DINAGAT ISLAND; INTENSITY IV - SAN JOSE AND LORETO DINAGAT ISLAND; INTENSITY III - MUNICIPALITY OF DINAGAT DINAGAT ISLAND; INTENSITY II - BASILISA AND CAGDIANAO DINAGAT ISLAND; INTENSITY I - SURIGAO CITY.
IDC Error ellipse: s-maj=20.3km s-min=9.9km az=78.0.
MAN V 29 16 02 58 10.91N 124.61E 12 4.3b,3.2L ¶601669251
MAN V 30 10 58 26 11.15N 124.88E 113 4.6b,3.5L ¶601650926
MAN Event type fe. INTENSITY II - ORMOC CITY.
MAN VI 03 00 03 19 10.06N 125.89E 17 4.5b,3.4L ¶601651101
MAN VI 08 16 45 34 11.21N 124.64E 16 4.2b,3.0L ¶601653676
MAN VI 11 11 29 57 11.12N 124.65E 10 4.6b,3.5L ¶601654032
ISC VI 13 12 06 08.9–1.6 10.77N–.03 124.52E–.03 4–12 4.1b,3.1s 36 0-92
ISCJB VI 13 12 06 08.7–.84 10.76N–.03 124.57E–.04 2–6 4.0b,3.2s ¶17206049
MAN VI 13 12 06 09 10.75N 124.55E 11 4.8b,3.8L
IDC VI 13 12 06 10.8–1.8 11.06N 124.62E 0 4.8L,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=4.4km az=33.6.
MAN Event type fe. INTENSITY II - ISABEL LEYTE.
IDC Error ellipse: s-maj=102.1km s-min=24.6km az=81.0.
MAN VI 14 18 45 19 10.10N 125.23E 24 4.0b,2.8L ¶601654197
MAN VI 19 13 59 50 10.39N 125.22E 18 4.5b,3.4L ¶601654443
MAN Event type fe. INTENSITY II - ST BERNARD SOUTHERN LEYTE.
MAN VI 20 16 00 56 10.20N 125.27E 72 4.1b,2.9L ¶601654507
MAN VI 24 14 45 21 10.48N 125.15E 17 4.5b,3.3L ¶601654857

(257) Negros.

MAN I 29 17 55 16 9.51N 122.30E 30 4.3b,3.1L ¶601668481
MAN III 27 03 18 18 9.60N 122.62E 18 4.1b,2.9L ¶601668929
MAN IV 28 12 28 36 9.89N 122.71E 82 4.0b,2.8L ¶601669087
MAN V 03 04 51 31 9.72N 122.21E 29 4.2b,3.0L ¶601669109
ISC V 07 01 48 38.1–1.1 9.61N–.04 122.36E–.07 39–5 4.1b 20 1-147
IDC V 07 01 48 34.0–1.1 10.00N 124.96E 0 4.1,4.0b ¶16578043
MAN V 07 01 48 37 9.63N 122.43E 18 4.5b,3.3L
NEIC V 07 01 48 40.4–1.3 9.56N 124.18E 35 4.3b,3.3L
ISC Event type fe.
IDC Error ellipse: s-maj=124.9km s-min=16.7km az=66.0.
MAN Event type fe. INTENSITY III - BARANGAY LINAWON CAUAYAN NEGROS OCCIDENTAL; INTENSITY II - BARANGAY BASAK CAUAYAN NEGROS OCCIDENTAL.
NEIC Event type se. Error ellipse: s-maj=171.0km s-min=13.4km az=64.0.
MAN V 12 20 08 44 9.08N 122.81E 27 4.1b,2.9L ¶601669160
MAN V 15 15 47 17 9.48N 123.68E 33 3.5b,2.2L ¶601669179
MAN V 24 20 15 12 9.87N 122.04E 28 4.5b,3.4L ¶601669234
ISC V 27 21 18 40.0–.48 9.24N–.07 122.88E–.08 18 4.3b 43 2-146
IDC V 27 21 18 33.9–1.1 10.70N 126.03E 0 3.9,3.8 ¶17204592
ISCJB V 27 21 18 38.4–.47 9.23N–.07 122.88E–.08 18 4.1b,3.8
MAN V 27 21 18 39 10.97N 126.34E 32 4.9b,3.9s
NEIC V 27 21 18 42.3–.52 9.21N 122.84E 35 4.4b,3.9s
ISC Event type ke.
IDC Error ellipse: s-maj=149.3km s-min=16.2km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=8.5km az=31.1.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=12.2km az=81.0.
MAN V 29 00 00 40 9.41N 122.43E 36 3.9b,2.7L ¶601669250
MAN VI 04 14 43 04 9.36N 122.40E 32 4.1b,2.9L ¶601651210
MAN VI 05 07 00 38 9.78N 123.61E 15 4.3b,3.1L ¶601653056

(259) Mindanao.

IDC I 01 05 41 16.2–2.3 5.26N 126.31E 117–26 3.6,3.4 ¶17189111
IDC Error ellipse: s-maj=107.5km s-min=17.7km az=68.0.
ISC I 01 13 09 36.1–1.2 6.6N–.10 126.7E–.10 131–9 3.4b 14 1-59
ISCJB I 01 13 09 34.3–.98 6.59N–.10 126.8E–.10 133–8 3.4b ¶17189134
IDC I 01 13 09 35.9–4.9 6.59N 126.84E 129–38 3.5,3.2
MAN I 01 13 09 37 6.70N 126.65E 109 4.5b,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.6km s-min=16.2km az=177.3.
IDC Error ellipse: s-maj=111.6km s-min=17.4km az=64.0.
IDC I 01 19 39 07.2–2.1 6.48N 123.67E 606–34 4.0,3.1 ¶17189152
IDC Error ellipse: s-maj=51.0km s-min=10.3km az=63.0.
MAN I 02 16 32 59 8.94N 122.72E 6 4.2b,3.1L ¶601668372
ISC I 02 21 28 50.1–2.3 6.40N–.08 126.4E–.10 0–14 3.6b 16 1-59
IDC I 02 21 28 50.0–1.4 6.47N 126.46E 0 3.7,3.6 ¶17189252
MAN I 02 21 28 55 6.44N 126.06E 2 4.5b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=56.8km s-min=14.6km az=56.0.
ISC I 03 02 27 00.9–.82 6.66N–.05 126.17E–.06 52–7 3.5b 27 0-121
ISCJB I 03 02 26 59.8–.56 6.65N–.05 126.20E–.06 58–5 3.6b ¶17189282
IDC I 03 02 27 00.5–2.0 6.79N 126.29E 48–19 4.1L,3.8
MAN I 03 02 27 01 6.72N 126.14E 32 4.5b,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.9km az=8.0.
IDC Error ellipse: s-maj=37.8km s-min=12.8km az=63.0.
ISC I 03 04 05 40.1–.78 5.43N–.07 126.3E–.10 100 4.0b 25 2-122
MAN I 03 04 05 32 5.23N 126.99E 33 4.9b,3.9s ¶17189292
ISCJB I 03 04 05 37.8–.59 5.41N–.07 126.45E–.09 100 3.9b,3.9s
IDC I 03 04 05 38.2–1.5 5.45N 126.64E 84–12 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=7.1km az=151.8.
IDC Error ellipse: s-maj=47.2km s-min=11.0km az=65.0.
ISC I 03 09 26 26.8–.58 5.52N–.06 125.36E–.10 50 4.0b 28 1-122
ISCJB I 03 09 26 25.2–.46 5.57N–.05 125.51E–.08 50 4.0b,3.1s ¶17189316
IDC I 03 09 26 29.5–1.4 5.53N 125.49E 74–11 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.6km az=162.8.
IDC Error ellipse: s-maj=27.2km s-min=9.5km az=79.0.
ISC I 04 06 54 44.0–1.5 6.22N–.05 125.42E–.07 25–12 3.4b 16 0-83
IDC I 04 06 54 38.8–1.9 6.42N 124.70E 0 3.8,3.5 ¶17189395
MAN I 04 06 54 44 6.28N 125.52E 30 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=43.6km s-min=11.8km az=128.0.
IDC I 04 11 00 59.7–1.4 7.21N 125.64E 0 3.6,3.5 ¶17189416
IDC Error ellipse: s-maj=156.0km s-min=21.1km az=70.0.
MAN I 04 16 35 51 6.21N 125.89E 122 4.3b,3.2L ¶601668376
MAN I 05 15 08 29 9.33N 125.68E 6 3.8b,2.6L ¶601668380
MAN I 06 16 10 21 8.85N 124.99E 33 3.8b,2.5L ¶601668383
ISC I 06 19 30 10.2–.95 6.07N–.07 125.77E–.07 127 3.8b 18 1-41
IDC I 06 19 29 57.6–24 6.02N 125.94E 0 4.2,4.0 ¶17189608
ISCJB I 06 19 30 09.0–.59 6.05N–.05 125.76E–.06 127 3.8b,4.0
MAN I 06 19 30 10 6.13N 125.73E 117 4.9b,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=417.4km s-min=112.7km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.8km az=175.4.
ISC I 07 13 05 05.2–1.1 6.54N–.05 126.72E–.08 63–9 4.0b 40 1-122
ISCJB I 07 13 05 04.3–.71 6.58N–.04 126.75E–.07 72–7 3.9b ¶17189641
IDC I 07 13 05 04.8–2.5 6.76N 126.93E 61–22 4.3L,4.1
MAN I 07 13 05 08 6.72N 126.56E 23 4.8b,3.8s
DJA I 07 13 05 15.9–.80 7N–10 125E–12 10 4.7b,4.6b
ISC Event type ke.
ISCJB Event type ke.
ISC I 07 14 14 05.3–1.3 9.93N–.09 126.5E–.10 42 3.3b 10 1-86
IDC I 07 14 14 01.0–2.1 9.24N 124.73E 0 3.7,3.5 ¶17189643
ISCJB I 07 14 14 03.6–1.1 9.82N–.09 126.64E–.10 42 3.5b,3.5
MAN I 07 14 14 10 9.78N 126.06E 23 4.4b,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=241.7km s-min=23.6km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=12.8km az=6.8.
ISC I 08 17 21 53.4–.52 6.89N–.04 126.87E–.05 75–4 4.7b 242 1-143
MOS I 08 17 21 48.5–1.1 6.92N 126.70E 43 4.9b ¶15928058
BJI I 08 17 21 48.7 6.45N 126.92E 78 5.0b,4.7b
MAN I 08 17 21 50 6.89N 127.00E 47 5.4b,4.7s
ISCJB I 08 17 21 51.6–.42 6.91N–.02 126.91E–.03 74–3 4.6b,4.7s
NEIC I 08 17 21 52.8–.80 6.93N 126.77E 69–7 4.8b,4.7s
IDC I 08 17 21 52.1–1.2 6.91N 126.87E 61–10 4.4,4.3
DJA I 08 17 22 26.3–.70 4N–6.0 126E–3.0 10 4.9b,4.7b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 09 05 36 16.0–1.2 6.4N–.20 127.0E–.10 74 3.8b 8 2-90
IDC I 09 05 36 06.6–1.2 6.49N 127.08E 0 4.0,3.9 ¶17189740
ISCJB I 09 05 36 14.2–.97 6.4N–.10 127.06E–.09 74 3.7b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 18 55 26.8–.90 7.84N–.04 126.90E–.07 69–9 3.7b 44 1-96
IDC I 09 18 55 18.4–.71 8.13N 127.16E 0 4.4L,4.0 ¶16150895
NEIC I 09 18 55 24.0–3.9 8.07N 127.08E 40–36 4.2b,4.0
MAN I 09 18 55 25 7.72N 126.88E 98 4.7b,3.6L
ISCJB I 09 18 55 26.5–.64 7.84N–.03 126.82E–.06 81–6 3.6b,3.6L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 10 04 49 09.6–.85 5.9N–.20 124.0E–.40 600 3.9b 16 24-120
ISCJB I 10 04 49 07.9–.69 5.8N–.20 123.9E–.30 600 3.7b ¶17189818
IDC I 10 04 49 08.1–2.3 5.87N 124.01E 580–29 4.2,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.5km s-min=9.0km az=155.8.
IDC Error ellipse: s-maj=50.1km s-min=7.9km az=66.0.
MAN I 10 08 46 05 6.07N 123.87E 33 3.8b,2.6L ¶601668401
MAN I 10 17 31 07 8.39N 126.43E 20 4.0b,2.7L ¶601668407
MAN I 10 17 40 42 9.64N 126.12E 37 4.5b,3.4L ¶601668408
ISC I 10 19 46 18.3–.66 6.48N–.04 125.82E–.07 179–6 3.7b 45 1-88
ISCJB I 10 19 46 17.4–.34 6.49N–.03 125.80E–.06 182–3 3.7b ¶17189876
IDC I 10 19 46 18.4–.42 6.56N 125.75E 182–2 4.0,3.6
MAN I 10 19 46 19 6.58N 125.81E 163 4.9b,3.8L
DJA I 10 19 46 23.4–.70 6N–5.0 126E–5.0 121–11 5.1b,4.6
ISC Event type ke.
ISCJB Event type ke.
MAN I 10 20 46 05 6.07N 123.87E 33 3.8b,2.5L ¶601668409
ISC I 11 17 06 15.3–.87 6.1N–.20 123.9E–.30 550 3.7b 10 10-57
ISCJB I 11 17 06 13.9–.76 6.0N–.20 123.8E–.30 550 3.6b ¶17189928
IDC I 11 17 06 15.3–1.8 6.04N 123.94E 548–24 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.9km s-min=11.9km az=150.2.
IDC Error ellipse: s-maj=44.5km s-min=11.5km az=64.0.
ISC I 12 16 42 41.5–.40 5.67N–.05 124.02E–.08 550 4.2b 94 2-125
BJI I 12 16 42 37.1 5.40N 124.03E 531 4.8b,4.4b ¶15928085
ISCJB I 12 16 42 39.6–.25 5.68N–.03 124.04E–.05 550 4.2b,4.4b
MAN I 12 16 42 39 5.66N 124.18E 519 5.6b,4.9s
IDC I 12 16 42 40.4–.85 5.81N 124.16E 533–10 4.4,3.6
NEIC I 12 16 42 40.0–.42 5.69N 124.01E 531–6 4.6b,3.6
DJA I 12 16 42 41.3–1.0 6N–11 124E–5.0 507–11 5.3,4.9b
KLM I 12 16 42 42.2 5.79N 123.92E 496 5.5s,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.8km az=157.8.
IDC Error ellipse: s-maj=18.0km s-min=8.5km az=66.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.4km az=58.0.
ISC I 12 18 13 49.8–1.9 6.9N–.10 126.9E–.10 10 3.5b 9 1-55
ISCJB I 12 18 13 47.7–1.1 6.9N–.10 127.00E–.08 10 3.4b,3.3s ¶601668419
IDC I 12 18 13 48.0–1.4 6.20N 124.61E 0 3.7,3.5
MAN I 12 18 13 52 6.92N 126.70E 16 4.6b,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.2km s-min=8.5km az=25.7.
IDC Error ellipse: s-maj=33.2km s-min=20.3km az=108.0.
ISC I 13 15 50 33.2–1.1 9.23N–.02 125.61E–.04 15–6 4.4b,3.5s 80 0-120
NEIC I 13 15 50 31.2–.47 9.15N 125.61E 10 4.7b,3.5s ¶15954478
MAN I 13 15 50 33 9.24N 125.58E 6 5.2b,4.1L
BJI I 13 15 50 34.2 9.10N 125.60E 25 5.0b,4.6b
IDC I 13 15 50 39.6–2.4 9.17N 125.55E 68–23 4.1,3.9
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=14.6km s-min=8.6km az=73.0. Felt [IV PIVS] at Santiago; [III PIVS] at Butuan and Cabadbaran; [II PIVS] at Placer.
MAN Event type fe. INTENSITY IV - SANTIAGO AGUSAN DEL SUR; INTENSITY III - BUTUAN CITY & CABADBARAN AGUSAN DEL NORTE; INTENSITY II - PLACER SURIGAO DEL NORTE.
IDC Error ellipse: s-maj=23.8km s-min=12.8km az=75.0.
MAN I 13 23 05 30 6.24N 123.56E 24 4.8b,3.8s ¶601668421
ISC I 14 08 58 24.8–2.1 7.80N–.05 126.81E–.09 12–12 3.6b 17 1-58
IDC I 14 08 58 23.1–2.1 7.78N 126.80E 0 3.8,3.6b ¶17190148
ISC Event type ke.
IDC Error ellipse: s-maj=175.5km s-min=21.8km az=67.0.
ISC I 15 15 25 12.9–1.2 5.73N–.09 126.1E–.10 10 3.4b 10 1-56
ISCJB I 15 15 25 11.2–1.0 5.81N–.09 126.26E–.09 10 3.4b ¶17190263
IDC I 15 15 25 11.2–1.4 5.53N 125.31E 0 4.0,3.8
MAN I 15 15 25 17 6.03N 126.27E 15 4.9b,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=8.4km az=41.4.
IDC Error ellipse: s-maj=52.6km s-min=13.3km az=91.0.
ISC I 16 11 48 17.4–1.4 5.4N–.10 124.5E–.20 35 3.4b 7 2-55
IDC I 16 11 48 12.6–1.6 5.46N 124.58E 0 3.6,3.4 ¶17190318
ISCJB I 16 11 48 15.4–1.2 5.41N–.10 124.4E–.20 33 3.2b,3.4
ISC Event type ke.
ISCJB Event type ke.
MAN I 16 17 41 08 9.69N 126.13E 7 4.2b,3.0L ¶601668425
MAN I 16 17 45 10 9.50N 125.74E 79 4.4b,3.3L ¶601668426
MAN I 16 19 45 58 9.42N 125.84E 141 4.6b,3.5L

¶601668427

MAN I 17 08 19 24 9.40N 126.28E 17 4.1b,2.9L

¶601668429

ISC I 18 00 24 25.7–1.3 7.89N–.04 124.66E–.05 7–10 3.6b 17 1-66
IDC I 18 00 24 24.7–1.1 7.74N 124.35E 0 3.8,3.6 **¶17190441**
ISCJB I 18 00 24 26.9–.63 7.94N–.03 124.71E–.05 25–6 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 18 03 02 30.4–1.5 9.42N–.05 126.4E–.10 52–14 4.1b,3.4s 33 1-121
ISCJB I 18 03 02 30.2–.96 9.44N–.05 126.34E–.09 62–9 4.1b,3.4s **¶17190446**
MAN I 18 03 02 31 9.40N 126.19E 20 5.0b,4.0s
IDC I 18 03 02 34.1–3.2 9.40N 126.13E 87–30 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=5.8km az=157.0.
IDC Error ellipse: s-maj=41.3km s-min=14.9km az=76.0.
ISC I 18 19 39 06.9–1.2 5.1N–.10 126.1E–.50 35 3.5b 9 1-56
IDC I 18 19 38 59.2–1.2 5.12N 124.65E 0 4.1s,4.1 **¶17190502**
ISCJB I 18 19 39 05.2–.75 5.05N–.06 126.0E–.10 33 4.0s,3.5b
ISC Event type ke.
ISCJB Event type ke.

MAN I 20 08 45 08 9.30N 125.50E 10 4.1b,2.9L

¶601668451

MAN I 20 10 19 25 8.53N 124.64E 18 3.8b,2.5L

¶601668452

MAN Event type fe. INTENSITY II - MALASAG CAGAYAN DE ORO; INTENSITY I - CAGAYAN DE ORO CITY.

MAN I 20 17 18 50 9.30N 125.77E 19 4.3b,3.2L

¶601668454

ISC I 20 18 15 03.5–.93 5.52N–.05 126.93E–.08 88–8 4.2b 65 2-94
BJI I 20 18 15 00.3 5.70N 127.30E 82 4.7s,4.3 **¶16151962**
DJA I 20 18 15 01.4–.70 6N–6.0 127E–7.0 10 4.8b,4.5
MAN I 20 18 15 02 5.61N 127.08E 48 4.9b,4.0s
ISCJB I 20 18 15 02.8–.61 5.57N–.04 126.96E–.08 96–5 4.0b,4.0s
NEIC I 20 18 15 04.6–.95 5.62N 127.01E 99–8 4.3b,4.0s
IDC I 20 18 15 04.3–1.2 5.59N 127.10E 99–10 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=5.0km az=160.6.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=6.6km az=70.0.
IDC Error ellipse: s-maj=22.8km s-min=8.6km az=63.0.

MAN I 24 00 21 01 8.55N 122.65E 5 4.1b,2.9L

¶601668467

ISC I 24 06 28 07.6–.44 6.38N–.04 123.55E–.05 589–4 4.8b 430 1-144
KLM I 24 06 28 05.6 6.70N 123.73E 580 5.9s,5.2b **¶15959508**
MAN I 24 06 28 05 6.35N 123.60E 596 5.7b,5.0s
BJI I 24 06 28 06.0 6.19N 123.59E 605 4.8b,4.7b
ISCJB I 24 06 28 06.8–.20 6.45N–.02 123.58E–.03 594–3 4.8b,4.7b
NEIC I 24 06 28 07.8–.34 6.39N 123.52E 590–5 4.9b,4.7b
MOS I 24 06 28 07.7–.64 6.44N 123.59E 612 4.6b,4.7b
IDC I 24 06 28 08.0–.64 6.42N 123.56E 594–7 4.9,4.0
DJA I 24 06 28 08.2–.30 6N–3.0 124E–2.0 589–3 5.3,5.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 25 13 13 52.1–.66 5.94N–.04 126.09E–.06 157–6 4.3b 93 1-83
BJI I 25 13 13 43.9 5.29N 126.52E 160 4.8b,4.3b **¶15968985**
ISCJB I 25 13 13 50.9–.32 5.98N–.03 126.11E–.05 164–3 4.3b,4.3b
NEIC I 25 13 13 51.9–.70 6.05N 126.12E 159–6 4.6b,4.3b
MAN I 25 13 13 51 5.94N 125.98E 164 5.3b,4.6s
IDC I 25 13 13 52.2–.55 5.99N 126.03E 156–5 4.3,4.0
DJA I 25 13 13 54.0–.50 6N–3.0 126E–4.0 121–7 5.1b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 26 01 12 12.0–2.3 9.26N–.06 126.79E–.08 6–13 3.9b 18 1-87
IDC I 26 01 12 10.3–1.3 9.43N 127.28E 0 4.3L,4.0 **¶17190998**
ISCJB I 26 01 12 11.3–2.5 9.24N–.06 126.91E–.05 11–16 3.8b,4.0
MAN I 26 01 12 13 9.04N 126.69E 1 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=57.2km s-min=21.5km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.7km az=22.8.
ISC I 26 14 10 47.5–1.1 9.27N–.03 125.45E–.05 11–8 3.5b 26 0-95
MAN I 26 14 10 47 9.26N 125.43E 1 4.8b,3.7L **¶17191039**
IDC I 26 14 10 53.7–4.2 8.42N 123.84E 48–39 4.2L,3.6
ISC Event type fe.
MAN Event type fe. INTENSITY II - BUTUAN CITY AGUSAN DEL NORTE.
IDC Error ellipse: s-maj=59.5km s-min=22.1km az=77.0.

MAN I 27 12 41 57 9.97N 126.16E 12 4.5b,3.4L

¶601668471

MAN I 27 21 19 27 9.28N 126.12E 27 4.6b,3.5L

¶601668474

ISC I 28 01 15 02.8–1.2 8.39N–.04 123.20E–.04 29–10 4.0b,3.1s 28 1-84
IDC I 28 01 14 57.0–1.1 8.81N 123.78E 0 4.3L,3.9 **¶16136014**
NEIC I 28 01 15 02.5–2.0 8.73N 123.76E 43–24 4.1b,3.9
MAN I 28 01 15 02 8.37N 123.16E 15 4.6b,3.5L
ISC Event type fe.
IDC Error ellipse: s-maj=57.4km s-min=19.8km az=55.0.
NEIC Event type fe. Error ellipse: s-maj=25.3km s-min=18.1km az=65.0. Felt [III PIVS] at Dipolog and Sindangan; [II PIVS] at Ipil, Katipunan, Manucan and Zamboanga City.
MAN Event type fe. INTENSITY III - DIPOLOG CITY; SINDANGAN ZAMBOANGA DEL NORTE; INTENSITY II - IPIL ZAMBOANGA SIBUGAY; KATIPUNAN AND MANUKAN.

MAN I 28 16 03 39 7.71N 125.07E 55 4.1b,2.9L

¶601668478

MAN I 28 19 17 06 8.49N 123.07E 22 4.1b,2.9L

¶601668479

ISC I 29 08 13 03.8–.59 6.00N–.08 125.7E–.10 150 3.8b 25 1-121
MAN I 29 08 13 04 5.92N 125.69E 164 4.8b,3.8L **¶17191246**
IDC I 29 08 13 05.3–.60 6.06N 125.61E 170–4 4.2,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=9.8km az=73.0.
ISC I 30 07 27 44.8–.87 5.79N–.08 126.45E–.09 71 3.8b 18 1-90
ISCJB I 30 07 27 43.6–.64 5.76N–.06 126.50E–.08 71 3.9b **¶17191300**
MAN I 30 07 27 44 5.91N 126.57E 98 4.9b,3.9s
IDC I 30 07 27 47.3–2.1 5.79N 126.27E 96–18 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=6.9km az=149.9.
IDC Error ellipse: s-maj=109.4km s-min=13.8km az=69.0.

MAN I 30 19 58 29 8.82N 124.08E 29 4.8b,3.8s

¶601668489

MAN I 30 20 34 46 8.02N 125.11E 8 4.2b,3.0L

¶601668490

MAN I 31 04 32 45 8.77N 124.17E 6 4.5b,3.4L

¶601668492

MAN II 01 06 09 18 7.03N 123.57E 31 4.0b,2.7L

¶601668497

MAN II 01 12 52 37 8.93N 124.12E 1 3.8b,2.6L

¶601668498

ISC II 01 15 57 13.5–1.6 5.82N–.09 126.5E–.10 64–20 3.5b 19 1-56
MAN II 01 15 57 10 5.80N 126.75E 58 4.6b,3.5L **¶17191493**
IDC II 01 15 57 17.1–1.5 5.92N 126.19E 104–16 3.7,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=101.2km s-min=18.3km az=67.0.
ISC II 02 19 45 18.3–1.5 6.89N–.05 123.78E–.05 29–11 3.8b 30 1-88
MAN II 02 19 45 15 6.81N 123.81E 6 5.0b,4.1s **¶17191556**
ISCJB II 02 19 45 17.4–1.0 6.74N–.07 123.73E–.05 42–10 3.7b,3.5s
IDC II 02 19 45 20.2–6.2 6.73N 123.73E 48–66 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=8.1km az=28.4.
IDC Error ellipse: s-maj=49.7km s-min=16.2km az=74.0.

MAN II 02 21 08 21 7.78N 126.18E 16 4.4b,3.2L

¶601668504

ISC II 03 17 54 39.8–2.0 6.17N–.06 124.69E–.07 18–12 4.0b 24 0-64
IDC II 03 17 54 37.6–.98 6.12N 124.73E 0 4.0,3.9b **¶16328648**
NEIC II 03 17 54 38.7–.62 6.13N 124.85E 10 4.4b,3.9b
MAN II 03 17 54 39 6.36N 124.72E 1 4.8b,3.7L
ISCJB II 03 17 54 40.4–.90 6.12N–.05 124.62E–.07 36–9 4.0b,3.7L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

MAN II 03 21 31 06 5.09N 124.49E 34 4.8b,3.7L

¶601668508

IDC II 04 20 13 08.0–6.5 5.42N 123.44E 521–72 3.5,2.7

¶17191690

IDC Error ellipse: s-maj=282.6km s-min=18.9km az=62.0.

MAN II 05 22 45 53 8.45N 123.05E 33 6.0L,3.8b

¶601668516

MAN Event type fe. INTENSITY II - MANUKAN ZAMBOANGA DEL NORTE.
ISC II 06 13 17 52.4–1.9 9.16N–.04 126.45E–.08 8–11 3.4b 20 1-53
IDC II 06 13 17 51.4–3.4 9.05N 125.94E 0 3.7,3.5 **¶17191793**
MAN II 06 13 17 55 9.15N 126.44E 12 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=278.5km s-min=27.9km az=65.0.

MAN II 07 01 32 25 7.08N 125.92E 55 4.7b,3.6L

¶601668520

MAN II 07 17 59 53 8.29N 123.33E 13 4.3b,3.1L

¶601668521

MAN II 07 20 38 28 8.50N 122.16E 34 3.8b,2.6L

¶601668525

MAN II 08 21 35 10 8.12N 123.18E 35 4.0b,2.8L

¶601668533

MAN II 09 13 08 20 7.74N 126.27E 27 4.4b,3.2L

¶601668538

MAN II 10 20 17 42 7.27N 122.14E 4 4.3b,3.1L

¶601668540

ISC II 10 20 28 08.8–.48 5.28N–.05 126.36E–.08 66 4.0b 69 2-130
MAN II 10 20 28 05 5.19N 126.31E 51 5.2b,4.4s **¶16339719**
DJA II 10 20 28 06.4–.60 5N–4.0 126E–6.0 10 4.9b,4.7
ISCJB II 10 20 28 07.0–.29 5.26N–.02 126.34E–.05 66 3.9b,4.7
IDC II 10 20 28 07.7–2.2 5.24N 126.06E 57–20 4.2L,4.1
NEIC II 10 20 28 08.0–1.1 5.29N 126.21E 60–10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.4km az=172.7.
IDC Error ellipse: s-maj=26.7km s-min=10.8km az=78.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=7.5km az=83.0.

IDC II 11 08 26 00.4–1.6 5.72N 125.26E 0 4.2,4.2L

¶17192062

IDC Error ellipse: s-maj=71.9km s-min=24.9km az=67.0.
ISC II 13 01 53 36.6–.83 8.61N–.05 126.27E–.07 108–6 4.0b 58 0-145
NEIC II 13 01 53 32.9–1.7 8.83N 126.76E 80–15 4.2b **¶16196686**
IDC II 13 01 53 32.5–4.0 8.79N 126.66E 74–34 4.3s,4.3
ISCJB II 13 01 53 35.8–.61 8.60N–.04 126.31E–.07 114–4 4.0b,4.3
MAN II 13 01 53 37 8.60N 126.16E 94 4.7b,3.6L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=6.3km az=61.0.
IDC Error ellipse: s-maj=36.7km s-min=13.1km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=6.0km az=158.0.

MAN II 13 10 54 11 9.32N 125.51E 6 4.5b,3.3L

¶601668550

IDC II 13 12 15 34.3–2.3 5.08N 126.51E 0 4.3s,4.3

¶17192153

IDC Error ellipse: s-maj=188.4km s-min=25.8km az=66.0.

MAN II 15 04 16 58 8.04N 126.14E 110 4.3b,3.2L

¶601668556

ISC II 15 10 59 09.9–1.1 5.75N–.08 126.0E–.10 116 3.3b 14 1-40
IDC II 15 10 59 01.7–1.7 5.25N 126.37E 0 3.9,3.7 **¶17192300**
ISCJB II 15 10 59 08.5–.74 5.71N–.07 126.2E–.10 116 3.5b,3.7
MAN II 15 10 59 13 6.13N 125.96E 114 4.7b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=200.1km s-min=19.9km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=19.8km s-min=8.2km az=163.2.
ISC II 15 21 49 18.8–.99 5.77N–.08 126.1E–.10 127 3.8b 14 1-84
ISCJB II 15 21 49 17.6–.66 5.72N–.06 126.12E–.09 127 3.8b **¶17192326**
MAN II 15 21 49 18 6.06N 126.10E 152 4.7b,3.6L
IDC II 15 21 49 19.5–.70 6.00N 125.94E 159–9 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.1km az=161.9.
IDC Error ellipse: s-maj=59.3km s-min=16.2km az=74.0.

IDC II 16 01 45 54.1–3.4 6.80N 124.25E 594–33 3.8,2.9

¶17192335

IDC Error ellipse: s-maj=204.4km s-min=15.9km az=63.0.

MAN II 16 13 33 24 8.41N 122.48E 29 4.6b,3.4L

¶601668561

MAN II 17 19 51 12 6.40N 124.79E 22 4.8b,3.7L

¶601668569

ISC II 17 21 42 59.3–.99 9.55N–.03 125.29E–.04 25–8 3.6b 32 0-95
ISCJB II 17 21 42 60.0–.51 9.59N–.03 125.29E–.04 29–5 3.6b **¶17192446**
MAN II 17 21 42 59 9.55N 125.30E 20 4.8b,3.6L
IDC II 17 21 43 11.6–1.9 9.05N 124.88E 143–24 3.7,3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.8km s-min=4.4km az=155.2.
MAN Event type fe. INTENSITY II - SURIGAO CITY.
IDC Error ellipse: s-maj=48.4km s-min=23.9km az=53.0.

MAN II 18 10 28 50 9.60N 125.39E 27 4.4b,3.2L

¶601668572

MAN Event type fe. INTENSITY II - LORETO DINAGAT ISLAND; GENERAL LUNA SIARGAO ISLAND.

MAN II 19 01 29 12 9.26N 125.87E 5 4.1b,2.9L

¶601668578

MAN II 19 02 27 55 8.23N 123.29E 22 4.5b,3.3L

¶601668579

MAN II 19 16 00 11 9.55N 125.21E 7 4.5b,3.4L

¶601668582

MAN Event type fe. INTENSITY II - MAINIT SURIGAO DEL NORTE.

MAN II 21 02 52 59 7.88N 126.12E 64 3.8b,2.6L

¶601668597

ISC II 21 22 06 11.5–1.2 5.99N–.06 126.10E–.08 57–12 4.3b 42 1-122
ISCJB II 21 22 06 11.5–.63 6.01N–.04 126.02E–.07 77–7 4.2b **¶16398698**
MAN II 21 22 06 11 6.15N 126.12E 21 4.7b,3.6L
NEIC II 21 22 06 13.0–.83 5.93N 125.64E 73–9 4.6b,3.6L
IDC II 21 22 06 12.3–1.4 5.88N 125.72E 62–14 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=6.8km az=177.4.
NEIC Event type se. Error ellipse: s-maj=25.5km s-min=6.7km az=75.0.
IDC Error ellipse: s-maj=48.6km s-min=13.4km az=81.0.

MAN II 23 11 05 35 8.69N 126.23E 24 3.9b,2.6L

¶601668605

MAN II 23 18 22 49 8.81N 126.54E 31 4.2b,3.1L

¶601668608

ISC II 23 21 48 17.0–1.5 6.38N–.07 126.54E–.09 48–17 3.5b 27 1-58
IDC II 23 21 48 07.9–1.7 6.90N 127.22E 0 4.4L,4.1 **¶17192761**
ISCJB II 23 21 48 16.3–.86 6.42N–.05 126.56E–.07 62–10 3.6b,4.1
MAN II 23 21 48 19 6.70N 126.48E 19 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=47.1km s-min=20.3km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=8.5km az=13.1.
ISC II 24 05 45 18.2–.68 5.45N–.07 126.5E–.10 66 3.9b 26 2-122
ISCJB II 24 05 45 16.9–.58 5.50N–.05 126.69E–.07 66 3.9b **¶17192773**
MAN II 24 05 45 20 5.66N 126.69E 69 4.8b,3.7L
IDC II 24 05 45 24.1–1.9 5.55N 126.48E 124–17 4.0,3.7
DJA II 24 05 46 00.5–.40 2N–3.0 125E–4.0 10 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.

IDC II 24 12 02 49.5–1.8 5.00N 126.89E 0 3.8,3.6b

¶17192787

IDC Error ellipse: s-maj=162.7km s-min=21.5km az=66.0.
MAN II 24 17 24 10 9.25N 125.50E 25 4.1b,2.9L
¶601668618
MAN II 25 19 20 52 6.90N 125.86E 33 4.0b,2.8L
¶601668621
MAN II 26 16 29 17 7.24N 123.78E 24 4.2b,3.0L
¶601668622
ISC II 26 21 02 19.9–.78 6.50N–.07 123.83E–.09 574–9 4.2b 123 5-119
MAN II 26 21 02 15 6.26N 123.72E 592 5.1b,4.3s **¶16160476**
BJI II 26 21 02 17.6 6.38N 123.78E 568 4.7b,4.3b
NEIC II 26 21 02 18.3–.40 6.61N 123.92E 550–5 4.2b,4.3b
ISCJB II 26 21 02 19.7–.56 6.49N–.05 123.80E–.06 592–8 4.2b,4.3b
DJA II 26 21 02 20.7–.70 7N–8.0 124E–6.0 577–6 4.8b,4.8
IDC II 26 21 02 20.8–1.2 6.52N 123.81E 590–15 4.3,3.4
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=5.5km az=146.4.
IDC Error ellipse: s-maj=23.0km s-min=6.6km az=66.0.
ISC II 27 12 21 24.2–.88 5.66N–.09 126.1E–.10 116 3.4b 12 1-60
IDC II 27 12 21 11.3–1.3 5.52N 126.08E 0 3.6,3.5 **¶17192951**
ISCJB II 27 12 21 22.5–.73 5.59N–.07 126.2E–.10 116 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
MAN II 27 13 21 57 9.17N 126.41E 26 4.6b,3.5L
¶601668626
ISC II 27 16 58 36.8–1.2 5.7N–.20 126.9E–.30 83 3.2b 10 1-59
ISCJB II 27 16 58 34.7–.94 5.8N–.20 127.1E–.20 83 3.2b **¶17192961**
IDC II 27 16 58 34.5–6.1 5.76N 127.22E 59–55 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.4km s-min=8.9km az=143.8.
IDC Error ellipse: s-maj=94.3km s-min=16.0km az=65.0.
MAN II 27 22 58 40 8.99N 125.63E 32 3.9b,2.7L
¶601668628
ISC III 01 02 34 29.1–.89 6.83N–.05 125.59E–.04 55–7 3.7b 26 0-54
IDC III 01 02 34 27.6–2.2 6.80N 125.42E 41–31 3.8,3.8 **¶17193033**
ISCJB III 01 02 34 27.8–.51 6.80N–.04 125.61E–.04 59–5 3.7b,3.8
MAN III 01 02 34 27 6.88N 125.64E 33 4.8b,3.8L
ISC Event type fe.
IDC Error ellipse: s-maj=63.3km s-min=22.7km az=69.0.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=6.9km az=175.5.
MAN Event type fe. INTENSITY II - DAVAO CITY.
MAN III 01 03 04 09 9.35N 125.64E 3 4.7b,3.6L
¶601668635
ISC III 01 15 40 16.5–14 7N–2.0 121.6E–.50 35 3.5b 4 3-69
IDC III 01 15 40 14.1–34 7.10N 121.42E 0 3.7,3.5 **¶17193078**
ISC Event type ke.
IDC Error ellipse: s-maj=655.4km s-min=80.0km az=150.0.
ISC III 01 18 01 41.2–.78 6.67N–.04 126.25E–.06 78–6 4.4b 63 0-122
NEIC III 01 18 01 38.9–1.7 6.89N 126.60E 64–14 4.5b **¶16193835**
IDC III 01 18 01 39.9–3.0 6.76N 126.44E 64–23 4.2,4.1
ISCJB III 01 18 01 39.3–.48 6.70N–.04 126.33E–.06 76–4 4.4b,4.1
MAN III 01 18 01 39 6.75N 126.35E 56 5.3b,4.5s
BJI III 01 18 01 42.5 7.36N 126.24E 65 5.0b,4.8s
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=7.8km az=63.0.
IDC Error ellipse: s-maj=55.4km s-min=14.0km az=64.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=5.1km az=159.8.
MAN III 02 20 29 20 6.58N 126.14E 127 4.4b,3.3L
¶601668641
ISC III 03 09 09 36.3–1.1 9.45N–.03 125.96E–.05 28–7 4.5b,4.0s 118 1-165
IDC III 03 09 09 31.1–.51 9.58N 126.41E 0 4.6L,4.4 **¶16193997**
ISCJB III 03 09 09 33.4–.87 9.49N–.02 126.04E–.04 22–6 4.4b,4.0s
MAN III 03 09 09 35 9.40N 125.85E 8 5.3b,4.5s
NEIC III 03 09 09 39.2–1.4 9.52N 126.20E 59–13 4.5b,4.5s
BJI III 03 09 09 47.2 10.08N 125.92E 89 5.1b,4.6b
ISC Event type fe.
IDC Error ellipse: s-maj=23.7km s-min=11.2km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.6km az=167.7.
MAN Event type fe. INTENSITY V - CANTILAN AND CARRASCAL SURIGAO DEL SUR; INTENSITY III - GENERAL LUNA SURIGAO DEL NORTE; INTENSITY II - SOCORRO AND BACUAG SURIGAO DEL NORTE.
NEIC Event type fe. Error ellipse: s-maj=14.0km s-min=7.3km az=74.0. Felt [V PIVS] at Cantilan and Carrascal; [III PIVS] at Cortes and General Luna; [II PIVS] at Bacuag, Lanuza, Socorro and Tandag.
ISC III 03 09 27 35.6–1.4 9.49N–.03 126.01E–.05 15–9 4.0b 44 1-95
IDC III 03 09 27 33.2–.68 9.41N 126.15E 0 4.2,4.2L **¶16442177**
ISCJB III 03 09 27 35.8–.99 9.51N–.03 126.05E–.05 25–7 4.0b,4.2L
MAN III 03 09 27 36 9.53N 126.01E 5 4.9b,3.9s
NEIC III 03 09 27 38.6–1.9 9.39N 126.12E 39–19 4.8b,3.9s
ISC Event type fe.
IDC Error ellipse: s-maj=30.4km s-min=13.8km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=4.6km az=159.1.
MAN Event type fe. INTENSITY II - CANTILAN SURIGAO DEL SUR.
NEIC Event type fe. Error ellipse: s-maj=21.6km s-min=9.2km az=73.0. Felt [II PIVS] at Cantilan.
ISC III 03 09 41 30.7–1.3 9.47N–.03 126.00E–.05 16–8 4.1b 47 1-146
IDC III 03 09 41 28.4–.59 9.51N 126.22E 0 4.5L,4.2 **¶16442178**
ISCJB III 03 09 41 30.0–1.2 9.54N–.03 126.11E–.05 21–8 4.1b,4.2
MAN III 03 09 41 32 9.31N 125.74E 6 5.0b,4.1s
NEIC III 03 09 41 33.5–.37 9.48N 126.18E 35 4.6b,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=29.1km s-min=12.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.4km az=165.3.
MAN Event type fe. INTENSITY II - CANTILAN SURIGAO DEL SUR; SOCORRO DINAGAT ISLAND.
NEIC Event type fe. Error ellipse: s-maj=17.9km s-min=7.5km az=83.0. Felt [II PIVS] at Cantilan and [I PIVS] at Socorro.
IDC III 03 10 09 42.5–29 5.24N 124.03E 0 4.1,3.9
¶17193180
IDC Error ellipse: s-maj=497.5km s-min=114.6km az=145.0.
MAN III 03 11 30 02 9.49N 126.25E 1 4.1b,2.9L
¶601668643
MAN III 03 13 06 17 9.44N 125.81E 14 4.6b,3.5L
¶601668644
MAN III 03 14 27 12 9.38N 125.79E 8 4.6b,3.5L
¶601668645
MAN III 03 14 47 47 8.40N 126.74E 34 4.3b,3.1L
¶601668646
MAN III 03 15 06 13 9.40N 125.79E 7 4.6b,3.5L
¶601668647
ISC III 03 15 11 60.0–.33 9.52N–.02 126.05E–.03 32–2 5.3b,4.7s 660 1-171
BJI III 03 15 11 56.3 9.18N 126.17E 43 5.2b,5.1s **¶16194008**
IDC III 03 15 11 58.7–1.8 9.49N 125.93E 24–11 5.0,5.0L
ISCJB III 03 15 11 59.2–.36 9.52N–.02 126.07E–.02 40–3 5.2b,4.8s
MAN III 03 15 11 59 9.51N 125.90E 3 6.0b,5.7s
MOS III 03 15 11 59.6–1.3 9.46N 125.93E 48 5.5b,4.7s
DJA III 03 15 12 00.6–1.1 10N–4.0 126E–2.0 25–8 7.9,6.1
NEIC III 03 15 12 01.4–.55 9.46N 125.94E 50–5 5.4b,6.1
GCMT III 03 15 12 01.4–.10 9.50N 125.95E 19–0 5.5W,6.1
KLM III 03 15 12 02.1 9.26N 126.40E 49 6.0s,5.4b
ISC Event type de.
IDC Error ellipse: s-maj=13.3km s-min=7.7km az=79.0.
ISCJB Event type de. Error ellipse: s-maj=3.7km s-min=2.4km az=160.5.
MAN Event type fe. INTENSITY VI - CARRASCAL SURIGAO DEL SUR; INTENSITY V- CLAVER SURIGO DEL NORTE; INTENSITY III - BUTUAN CITY; BUENAVISTA AGUSAN DEL SUR; SOCORRO AND MAINIT SURIGAO DEL NORTE.
MOS Error ellipse: s-maj=8.4km s-min=4.2km az=111.4.
NEIC Event type de. Error ellipse: s-maj=4.3km s-min=3.0km az=77.0. Several buildings damaged in Surigao. Felt [VI PIVS] at Cantilan and Carrascal; [V PIVS] at Claveria; [III PIVS] at Buenavista, Butuan, Mainit and Socorro; [II PIVS] at Bislig and Surigao; [I PIVS] at Cagayan de Oro. Also felt at Bayugan and Dapa.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c175; s116,c227; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.43±.03 $M_{\theta\theta}$0.71±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$-0.21±.04; $M_{\theta\phi}$1.51±.02; $M_{\phi r}$1.10±.06; Best double couple: NP1:ϕ_s193.00000°,δ77.00000°,λ-146.00000°. NP2:ϕ_s94.00000°,δ57.00000°,λ-16.00000°. Principal axes: T 1.9170,Plg13.0000°,Azm320.0000°; N 0.1180,Plg54.0000°,Azm211.0000°; P -2.0350,Plg33.0000°,Azm59.0000° $M_0$1.97600×10^{17}
MAN III 03 15 32 14 9.41N 125.84E 5 4.6b,3.5L
¶601668648
MAN III 03 15 41 31 9.42N 125.66E 8 4.3b,3.2L
¶601668649
ISC III 03 16 03 01.0–2.0 9.42N–.04 125.88E–.09 8–14 20 1-34
IDC III 03 16 02 35.5–4.3 12.30N 126.65E 0 3.3,3.1 **¶601668650**
ISCJB III 03 16 03 02.0–1.4 9.46N–.05 125.94E–.08 24–11 3.1b,3.1
MAN III 03 16 03 02 9.40N 125.81E 9 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=318.6km s-min=26.5km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=7.4km az=164.7.
ISC III 03 16 54 36.1–1.7 9.57N–.04 125.94E–.08 13–10 3.7b 21 0-86
IDC III 03 16 54 32.0–.99 9.78N 126.87E 0 3.8,3.7 **¶17193199**
ISCJB III 03 16 54 36.1–1.5 9.56N–.04 126.04E–.08 22–10 3.8b,3.4s
MAN III 03 16 54 36 9.49N 125.91E 7 4.8b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=64.4km s-min=19.6km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.8km az=172.2.
MAN III 03 18 45 51 9.42N 125.74E 21 4.2b,3.0L
¶601668651
MAN III 03 18 48 30 9.39N 125.76E 17 4.5b,3.4L
¶601668652
MAN III 03 20 17 50 9.46N 125.92E 7 4.1b,2.9L
¶601668654
MAN III 03 20 48 02 9.45N 125.85E 9 4.2b,3.0L
¶601668655
MAN III 03 21 02 57 9.45N 125.87E 9 4.4b,3.4s
¶601668656
MAN Event type fe. INTENSITY II - CARRASCAL SURIGAO DEL SUR.
MAN III 03 21 19 05 9.40N 125.69E 24 4.2b,3.0L
¶601668657
MAN III 03 22 34 56 9.46N 126.10E 1 4.2b,3.1L
¶601668658
MAN III 04 00 15 34 7.01N 125.61E 34 4.0b,2.8L
¶601668660
MAN III 04 05 16 25 5.73N 126.72E 66 4.0b,2.8L
¶601668661
ISC III 04 23 01 53.4–.76 6.32N–.05 126.19E–.07 126–7 3.8b 39 1-122
DJA III 04 23 01 38.1–3.4 8N–31 126E–15 230–10 3.6,3.6b **¶601668668**
ISCJB III 04 23 01 52.4–.42 6.31N–.04 126.19E–.07 131–4 3.8b,3.6b
MAN III 04 23 01 54 6.60N 126.06E 144 4.7b,3.6L
IDC III 04 23 01 54.5–.83 6.41N 126.14E 134–6 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.6km az=169.3.
IDC Error ellipse: s-maj=36.5km s-min=11.7km az=70.0.
MAN III 05 05 36 33 9.45N 125.89E 7 4.6b,3.4L
¶601668671
MAN III 05 20 14 56 9.26N 125.41E 1 4.5b,3.4L
¶601668673
ISC III 06 19 32 52.2–1.5 6.0N–.20 126.7E–.20 100 3.1b 11 1-60
IDC III 06 19 32 55.3–2.4 5.95N 126.27E 136–13 3.1,2.9 **¶17193376**
ISC Event type ke.
IDC Error ellipse: s-maj=175.7km s-min=18.9km az=66.0.
ISC III 07 07 15 28.8–1.4 9.62N–.04 126.29E–.06 32–9 4.3b,3.1s 54 1-146
MAN III 07 07 15 29 9.52N 126.33E 78 4.8b,3.7L **¶16449407**
IDC III 07 07 15 31.4–3.1 9.62N 126.08E 53–27 4.2,4.1
NEIC III 07 07 15 36.6–1.5 9.67N 126.20E 102–14 4.6b,4.1
BJI III 07 07 15 51.5 9.50N 126.30E 285 4.8b,4.3b
ISC Event type fe.
MAN Event type fe. INTENSITY II - CANTILAN AND CARRASCAL SURIGAO DEL SUR.
IDC Error ellipse: s-maj=26.2km s-min=12.3km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=14.7km s-min=9.4km az=73.0. Felt [II PIVS] at Cantilan and Carrascal.
MAN III 07 09 16 39 9.27N 125.53E 3 4.4b,3.2L
¶601668679
ISC III 08 10 52 47.4–1.5 7.32N–.05 126.31E–.06 6–11 3.7b 15 0-54
MAN III 08 10 52 47 7.17N 126.51E 18 4.2b,3.0L **¶17193464**
IDC III 08 10 52 48.2–1.4 6.64N 124.86E 0 3.9,3.7
ISCJB III 08 10 52 48.1–.99 7.20N–.05 126.47E–.07 26–6 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
MAN III 08 20 10 22 9.31N 125.48E 1 4.3b,3.2L
¶601668689
ISC III 09 01 48 12.2–1.5 6.66N–.07 125.83E–.04 17–10 3.7b 21 0-55
IDC III 09 01 48 12.5–3.4 6.45N 125.50E 14–25 3.9,3.8 **¶17193503**
MAN III 09 01 48 13 6.53N 125.94E 27 4.7b,3.5L
ISC Event type fe.
IDC Error ellipse: s-maj=60.3km s-min=15.5km az=81.0.
MAN Event type fe. INTENSITY III - GOVERNOR GENEROSO DAVAO ORIENTAL; MATI DAVAO ORIENTAL; PADADA DAVAO DEL SUR.
MAN III 09 14 30 51 8.33N 123.08E 26 4.0b,2.7L
¶601668695
ISC III 09 15 16 49.9–.68 5.86N–.05 126.29E–.08 100 3.8b 39 1-90
IDC III 09 15 16 48.7–1.5 5.94N 126.48E 90–12 4.0,3.8 **¶17193565**
MAN III 09 15 16 48 5.97N 126.42E 97 4.7b,3.6L
ISCJB III 09 15 16 48.1–.45 5.92N–.03 126.42E–.07 100 3.8b,3.6L
DJA III 09 15 17 01.3–2.3 5N–18 126E–9.0 96–27 5.2b,4.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 23 02 08.8–.88 6.39N–.07 124.72E–.07 36 3.7b 14 1-54
IDC III 09 23 02 04.4–.97 6.24N 124.71E 0 3.9,3.7 **¶17193585**
ISCJB III 09 23 02 06.9–.63 6.37N–.05 124.70E–.07 36 3.5b,3.7
MAN III 09 23 02 06 6.28N 124.76E 20 4.8b,3.7L
ISC Event type fe.
IDC Error ellipse: s-maj=21.8km s-min=11.9km az=117.0.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=6.5km az=173.4.
MAN Event type fe. INTENSITY II - KORONADAL CITY; BAGUMBAYAN SULTAN KUDARAT.
MAN III 11 17 20 54 6.71N 126.85E 13 4.4b,3.3L
¶601668708
MAN III 12 08 18 49 6.44N 125.42E 32 4.2b,3.0L
¶601668713
ISC III 12 13 52 01.3–.53 6.29N–.08 123.8E–.10 600 3.9b 40 1-119
ISCJB III 12 13 52 00.3–.38 6.38N–.06 123.71E–.08 600 4.0b **¶17194444**
DJA III 12 13 52 02.4–.80 6N–11 124E–5.0 599–8 5.0,4.8b
IDC III 12 13 52 02.9–1.9 6.24N 123.60E 616–25 4.4,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.0km az=154.8.
IDC Error ellipse: s-maj=28.1km s-min=11.4km az=61.0.
IDC III 13 15 21 37.2–1.9 8.08N 125.19E 0 4.5s,4.5
¶17194903
IDC Error ellipse: s-maj=128.3km s-min=31.8km az=71.0.
MAN III 13 22 50 16 8.36N 125.81E 45 4.1b,2.9L
¶601668718
ISC III 15 01 52 21.9–.75 5.4N–.10 126.5E–.40 66 3.9b 13 23-122
IDC III 15 01 52 13.3–.75 5.42N 126.55E 0 4.1,4.0 **¶17195980**
ISCJB III 15 01 52 20.3–.63 5.4N–.10 126.4E–.30 66 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
MAN III 15 12 48 53 8.75N 126.37E 1 3.8b,2.5L
¶601668726
IDC III 16 08 59 01.2–.78 6.00N 125.81E 163–60 3.7,3.4
¶17196410
IDC Error ellipse: s-maj=227.4km s-min=20.1km az=50.0.
MAN III 17 18 38 53 6.85N 126.68E 34 4.9b,3.9s

¶601668859
MAN III 17 19 07 56 8.56N 124.86E 9 4.5b,3.4L
¶601668861
MAN Event type fe. INTENSITY III - HABAAN AND TAGOLOAN MISAMIS ORIENTAL; INTENSITY II - MALASAG CAGAYAN DE ORO CITY; LUMBIA MISAMIS ORIENTAL.
ISC III 19 00 36 18.3–.84 6.15N–.04 126.55E–.06 31–5 4.6b 113 1-142
MAN III 19 00 36 11 5.63N 126.73E 58 5.2b,4.5s ¶16339137
ISCJB III 19 00 36 18.3–.56 6.08N–.03 126.54E–.05 43–5 4.6b,4.1s
IDC III 19 00 36 20.0–1.7 6.12N 126.39E 46–14 4.2,4.1
DJA III 19 00 36 19.3–.60 6N–5.0 126E–6.0 10 5.2b,4.9
BJI III 19 00 36 19.7 6.00N 126.76E 63 5.0b,4.7b
NEIC III 19 00 36 22.6–1.0 6.17N 126.62E 71–10 4.6b,4.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.2km az=167.3.
IDC Error ellipse: s-maj=27.8km s-min=9.2km az=70.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.2km az=70.0.
ISC III 19 10 35 48.3–2.1 9.96N–.06 126.44E–.07 17–13 3.6b 24 1-94
IDC III 19 10 35 45.7–.93 9.96N 126.18E 0 3.8,3.7 ¶17197191
MAN III 19 10 35 54 9.78N 126.18E 14 3.9b,2.7L
ISC Event type fe.
IDC Error ellipse: s-maj=64.0km s-min=18.7km az=73.0.
MAN Event type fe. INTENSITY II - GENERAL LUNA SIARGAO ISLAND.
ISC III 19 13 41 35.4–.45 7.45N–.04 126.71E–.07 71 4.2b 67 1-130
MAN III 19 13 41 29 7.23N 127.00E 34 4.9b,3.8L ¶16479476
ISCJB III 19 13 41 33.7–.33 7.48N–.03 126.75E–.05 71 4.1b,3.8L
IDC III 19 13 41 35.9–1.6 7.43N 126.66E 73–14 4.3,4.1
NEIC III 19 13 41 36.6–1.1 7.44N 126.59E 84–10 4.3b,4.1
DJA III 19 13 41 38.6–3.0 7N–24 127E–16 10 5.2b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
MAN III 19 16 04 08 7.30N 126.40E 1 4.2b,3.1L
¶601668870
MAN III 19 19 33 55 9.33N 125.72E 10 4.4b,3.2L
¶601668872
MAN III 20 01 28 52 9.69N 125.96E 10 4.2b,3.0L
¶601668875
MAN III 20 22 13 32 9.11N 126.33E 28 4.3b,3.1L
¶601668877
MAN III 21 01 24 22 7.97N 125.65E 37 4.5b,3.3L
¶601668883
MAN III 21 09 27 07 7.04N 123.81E 8 4.1b,2.9L
¶601668884
ISC III 21 11 10 51.8–1.1 9.51N–.04 126.13E–.07 58–10 4.2b 50 1-120
ISCJB III 21 11 10 51.6–.57 9.47N–.04 126.11E–.06 74–6 4.1b ¶16479965
NEIC III 21 11 10 54.7–1.1 9.40N 125.83E 91–11 4.2b
IDC III 21 11 10 54.7–2.6 9.40N 125.83E 90–26 4.2,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=5.4km az=156.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=7.5km az=81.0.
IDC Error ellipse: s-maj=30.4km s-min=12.0km az=81.0.
MAN III 21 14 52 19 9.27N 126.91E 18 4.2b,3.1L
¶601668888
MAN III 22 01 23 01 7.17N 126.65E 27 4.3b,3.1L
¶601668894
ISC III 22 06 27 13.3–.85 5.56N–.08 126.4E–.10 100 3.9b 16 1-122
ISCJB III 22 06 27 12.1–.68 5.51N–.05 126.4E–.10 100 3.9b ¶16462079
MAN III 22 06 27 12 5.55N 126.44E 99 4.3b,3.1L
IDC III 22 06 27 14.7–1.5 5.44N 125.94E 111–21 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=6.6km az=166.2.
IDC Error ellipse: s-maj=99.1km s-min=15.0km az=69.0.
MAN III 23 06 48 27 9.33N 125.86E 3 4.1b,2.9L
¶601668899
ISC III 24 10 56 54.2–.82 9.61N–.05 126.47E–.07 10 3.9b 22 1-146
IDC III 24 10 56 52.3–.80 9.56N 125.99E 0 4.1,4.0b ¶17198330
ISCJB III 24 10 56 52.6–.67 9.66N–.06 126.60E–.06 10 3.9b,3.3s
MAN III 24 10 56 55 9.67N 126.50E 14 4.6b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=62.0km s-min=17.1km az=77.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.0km az=39.7.
MAN III 24 16 04 13 8.96N 124.04E 32 4.4b,3.3L
¶601668921
MAN III 27 17 24 59 9.96N 126.03E 26 4.4b,3.2L
¶601668930
ISC III 27 22 16 17.4–1.3 9.65N–.09 125.3E–.20 10 3.3b 6 1-52
IDC III 27 22 16 15.9–2.0 9.81N 125.32E 0 3.3,3.3 ¶17198858
ISC Event type ke.
IDC Error ellipse: s-maj=211.4km s-min=26.0km az=70.0.
ISC III 28 05 32 29.5–1.3 8.67N–.03 125.07E–.06 25–10 4.2s,4.2b 81 1-145
MAN III 28 05 32 27 8.56N 124.89E 3 5.0b,4.0s ¶16374423
ISCJB III 28 05 32 28.7–.42 8.59N–.02 125.07E–.05 39–4 4.2s,4.2b
NEIC III 28 05 32 29.6–3.0 8.69N 125.16E 29–22 4.4b,4.2b
BJI III 28 05 32 30.1 8.71N 125.04E 33 5.0b,4.5s
IDC III 28 05 32 31.4–2.8 8.68N 125.27E 42–28 4.0,3.9
DJA III 28 05 32 43.1–3.5 7N–30 125E–8.0 10 5.6b,5.1
ISC Event type fe.
MAN Event type fe. INTENSITY III - TAGOLOAN MISAMIS ORIENTAL; INTENSITY II - CAGAYAN DE ORO CITY; MALAYBALAY BUKIDNON.
ISCJB Event type fe.
NEIC Event type fe. Felt [III PIVS] at Tagoloan and [II PIVS] at Cagayan de Oro. Felt [IV] at Manolo Fortich. Also felt at Adtugan, Balingasag, Gingoog, Iligan, Lagonglong and Lapasan.
ISC III 28 08 19 48.2–.89 8.66N–.06 125.5E–.10 50 3.5b 13 0-53
IDC III 28 08 19 39.0–2.4 8.84N 126.00E 0 3.7,3.6 ¶17198923
ISCJB III 28 08 19 50.6–.84 8.76N–.06 125.3E–.10 50 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
MAN III 29 16 18 21 7.66N 126.01E 46 4.0b,3.2s
¶601668937
ISC III 29 16 43 38.8–1.0 8.91N–.06 126.43E–.10 54 3.6b 17 1-145
ISCJB III 29 16 43 36.4–.87 8.93N–.06 126.65E–.08 54 3.7b ¶17199085
MAN III 29 16 43 41 8.75N 126.25E 29 4.4b,3.3L
IDC III 29 16 43 41.3–7.1 8.83N 126.32E 82–62 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.3km az=158.7.
IDC Error ellipse: s-maj=83.0km s-min=22.0km az=65.0.
MAN III 30 21 46 24 5.64N 126.15E 57 4.4b,3.2L
¶601668943
MAN III 31 05 34 39 8.18N 124.65E 1 4.2b,3.0L
¶601668945
ISC III 31 06 18 34.7–.64 5.65N–.04 126.64E–.06 57–4 4.8b,4.0s 249 1-130
MAN III 31 06 18 25 5.33N 126.80E 3 5.5b,4.7s ¶16399896
IDC III 31 06 18 26.8–.44 5.69N 126.47E 0 4.6,4.6b
BJI III 31 06 18 30.9 5.05N 126.39E 55 5.0b,4.8b
MOS III 31 06 18 30.7–1.1 5.76N 126.50E 36 5.2b,4.8b
ISCJB III 31 06 18 34.3–.56 5.68N–.03 126.58E–.04 69–4 4.7b,4.8b
NEIC III 31 06 18 36.1–.70 5.69N 126.56E 70–6 4.8b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=10.6km az=76.0.
MOS Error ellipse: s-maj=12.6km s-min=6.0km az=113.3.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.1km az=166.6.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.3km az=72.0.
MAN III 31 07 56 07 8.70N 122.40E 31 4.4b,3.3L
¶601668946
MAN III 31 14 30 24 8.82N 126.24E 2 4.3b,3.1L
¶601668947
ISC III 31 16 37 14.0–.64 5.72N–.04 126.56E–.06 31–4 4.7b,4.0s 262 1-122
MAN III 31 16 37 05 5.05N 126.93E 32 5.3b,4.6s ¶16401568
ISCJB III 31 16 37 11.8–.22 5.76N–.03 126.73E–.04 33 4.7b,4.0s
BJI III 31 16 37 11.2 5.80N 126.50E 21 4.9b,4.6b
IDC III 31 16 37 12.9–2.4 5.32N 125.48E 19–14 4.4,4.3
MOS III 31 16 37 13.1–.87 5.82N 126.55E 41 5.0b,4.3
NEIC III 31 16 37 14.8–.85 5.82N 126.68E 46–8 4.9b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.4km az=159.2.
IDC Error ellipse: s-maj=25.1km s-min=10.8km az=76.0.
MOS Error ellipse: s-maj=16.4km s-min=5.6km az=118.9.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.5km az=62.0.
ISC III 31 18 18 55.0–.46 5.69N–.06 126.54E–.08 71 4.4b 59 1-122
IDC III 31 18 18 52.9–2.0 5.78N 126.64E 50–18 4.9L,4.2 ¶16476002
NEIC III 31 18 18 53.8–.98 5.82N 126.70E 59–8 4.4b,4.2
ISCJB III 31 18 18 53.4–.35 5.70N–.04 126.58E–.08 71 4.1b,4.2
MAN III 31 18 18 55 5.98N 126.20E 4 5.0b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=10.2km az=68.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=5.4km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=4.6km az=162.2.
ISC III 31 18 26 30.9–1.1 6.0N–.10 126.3E–.10 100 3.9b 26 1-122
IDC III 31 18 26 28.3–4.8 5.94N 126.41E 76–27 3.9,3.6 ¶17199335
MAN III 31 18 26 34 6.40N 126.02E 1 5.2b,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=57.8km s-min=39.9km az=179.0.
ISC III 31 22 39 43.2–1.9 5.86N–.09 126.90E–.10 32–12 4.0b 29 1-122
IDC III 31 22 39 38.1–.79 6.11N 127.31E 0 4.0,3.9b ¶16476034
MAN III 31 22 39 41 5.49N 126.71E 46 5.0b,3.9L
NEIC III 31 22 39 45.7–2.5 6.01N 127.03E 56–20 4.3b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=39.2km s-min=14.2km az=64.0.
NEIC Event type se. Error ellipse: s-maj=46.2km s-min=9.5km az=67.0.
MAN IV 01 12 03 15 7.16N 124.53E 16 4.0b,2.8L
¶601668951
MAN IV 02 09 55 23 7.19N 123.77E 7 3.9b,2.6L
¶601668958
MAN IV 02 10 30 29 7.91N 124.98E 1 4.5b,3.3L
¶601668959
MAN Event type fe. INTENSITY III - MALAYBALAY BUKIDNON; INTENSITY II - VALENCIA BUKIDNON.
MAN IV 02 10 37 49 7.29N 126.09E 53 3.9b,2.7L
¶601668960
ISC IV 02 23 11 06.0–2.8 8.3N–.60 125E–1.0 12 3.6b 6 1-53
MAN IV 02 23 10 20 7.84N 125.04E 1 4.4b,3.3L ¶17199582
IDC IV 02 23 11 07.8–1.6 8.18N 126.03E 0 3.8,3.6
ISC Event type fe.
MAN Event type fe. INTENSITY I - VALENCIA BUKIDNON.
IDC Error ellipse: s-maj=39.1km s-min=16.6km az=103.0.
MAN IV 02 23 23 19 7.86N 125.02E 1 4.4b,3.2L
¶601668968
MAN Event type fe. INTENSITY II - MALAYBALAY & VALENCIA BUKIDNON.
MAN IV 04 07 50 54 9.29N 125.53E 29 4.1b,2.9L
¶601668973
ISC IV 05 03 42 48.4–.72 7.89N–.03 125.00E–.04 14 3.9b,3.0s 22 1-96
MAN IV 05 03 42 47 7.97N 124.93E 1 4.7b,3.5L ¶17199842
ISCJB IV 05 03 42 48.5–.42 7.89N–.03 125.03E–.06 14 3.8b,3.1s
IDC IV 05 03 42 52.6–2.5 7.82N 125.13E 33–18 3.9,3.9
ISC Event type fe.
MAN Event type fe. INTENSITY III - VALENCIA BUKIDNON; INTENSITY II - MALAYBALAY BUKIDNON.
ISCJB Event type fe. Error ellipse: s-maj=8.8km s-min=4.6km az=173.3.
IDC Error ellipse: s-maj=48.3km s-min=15.8km az=78.0.
MAN IV 05 05 25 55 7.86N 124.99E 1 4.6b,3.5L
¶601668977
MAN Event type fe. INTENSITY III - VALENCIA AND MALAYBALAY BUKIDNON.
ISC IV 05 22 48 29.0–.95 7.0N–.10 125.96E–.06 51 3.6b 15 0-59
IDC IV 05 22 48 23.5–1.1 6.68N 125.01E 0 3.7,3.6b ¶17199936
ISCJB IV 05 22 48 27.2–.70 7.1N–.10 125.96E–.06 51 3.4b,2.9s
MAN IV 05 22 48 27 6.99N 125.87E 14 4.5b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=20.8km s-min=10.1km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=7.1km az=17.6.
ISC IV 06 04 01 01.1–.83 5.5N–.20 126.9E–.30 66 4.2b 19 2-123
IDC IV 06 04 01 03.8–2.1 5.35N 126.50E 86–14 4.1,3.8 ¶17199958
ISC Event type ke.
IDC Error ellipse: s-maj=86.1km s-min=11.3km az=69.0.
ISC IV 06 08 32 45.9–.95 5.4N–.20 126.8E–.50 84 3.8b 7 26-89
IDC IV 06 08 32 35.2–.87 5.51N 126.89E 0 4.0,3.9 ¶17199987
ISC Event type ke.
IDC Error ellipse: s-maj=73.5km s-min=17.8km az=71.0.
IDC IV 06 23 32 36.3–1.7 5.16N 125.97E 0 3.6,3.5
¶17200063
IDC Error ellipse: s-maj=165.8km s-min=26.7km az=68.0.
ISC IV 07 21 04 35.2–1.4 5.6N–.10 124.6E–.20 10 3.3b 7 1-55
IDC IV 07 21 04 33.8–1.5 5.67N 124.52E 0 3.6,3.4 ¶17200166
ISC Event type ke.
IDC Error ellipse: s-maj=49.6km s-min=24.6km az=85.0.
IDC IV 08 17 21 23.9–39 7.05N 126.22E 0 3.8,3.6
¶17200265
IDC Error ellipse: s-maj=662.5km s-min=253.3km az=156.0.
IDC IV 08 19 07 49.6–2.0 5.85N 126.45E 0 3.5,3.3
¶17200275
IDC Error ellipse: s-maj=174.0km s-min=24.1km az=66.0.
ISC IV 09 09 18 15.9–.83 6.50N–.08 126.4E–.10 134–7 4.0b 24 0-97
ISCJB IV 09 09 18 14.6–.64 6.48N–.07 126.4E–.10 137–5 3.8b ¶17200319
IDC IV 09 09 18 15.9–1.2 6.48N 126.42E 132–11 4.1,3.9
MAN IV 09 09 18 18 6.90N 126.43E 125 4.7b,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=11.2km az=176.8.
IDC Error ellipse: s-maj=40.4km s-min=12.2km az=75.0.
MAN IV 09 21 14 17 7.88N 124.98E 7 4.2b,3.0L
¶601668997
MAN IV 10 14 01 50 9.69N 125.27E 12 5.2b,4.3s
¶601668998
ISC IV 10 14 12 59.3–1.3 9.75N–.06 126.4E–.10 35 3.3b 15 1-53
IDC IV 10 14 12 54.2–4.0 9.45N 125.66E 0 3.5,3.3 ¶17200470
ISCJB IV 10 14 12 56.7–1.0 9.74N–.05 126.60E–.07 35 3.3b,3.3
MAN IV 10 14 12 59 9.74N 126.29E 13 4.7b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=361.6km s-min=26.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.1km az=165.1.
ISC IV 10 20 04 22.5–.51 9.88N–.03 126.25E–.05 54–4 5.0b,3.8s 350 1-169
BJI IV 10 20 04 17.8 9.71N 126.25E 39 4.9b,4.9b ¶16416188
MOS IV 10 20 04 18.5–1.3 9.87N 126.02E 32 5.3b,4.9b
DJA IV 10 20 04 20.2–.30 10N–3.0 126E–3.0 10 5.4b,4.9b
MAN IV 10 20 04 21 9.87N 126.21E 23 5.5b,4.8s
IDC IV 10 20 04 22.6–1.5 9.87N 126.03E 54–13 4.8,4.6
ISCJB IV 10 20 04 22.1–.43 9.87N–.02 126.24E–.03 66–4 4.8b,4.6
NEIC IV 10 20 04 23.7–.78 9.90N 126.18E 66–7 5.0b,4.6
GCMT IV 10 20 04 23.7–.30 9.93N 126.09E 37–0 5.0W,4.6
KLM IV 10 20 04 27.6 9.79N 126.32E 77 6.0s,4.9b
ISC Event type fe.
MOS Error ellipse: s-maj=11.3km s-min=5.9km az=105.2.
MAN Event type fe. INTENSITY III - MAINIT SURIGAO DEL NORTE; GUIUAN E. SAMAR; INTENSITY II - SURIGAO CITY; LIBAGUN SOUTHERN LEYTE.
IDC Error ellipse: s-maj=13.4km s-min=8.4km az=83.0.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.0km az=162.9.
NEIC Event type fe. Error ellipse: s-maj=6.7km s-min=4.7km az=83.0. Felt [III PIVS] at Mainit and [II PIVS] at Surigao. Also felt [III PIVS] at Guiuan, Samar and [II PIVS] at Libagon, Letye.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c32; s59,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.33±.23 $M_{\theta\theta}$-1.60±.13; $M_{\phi\phi}$-0.72±.15; $M_{r\theta}$0.93±.10; $M_{\theta\phi}$-1.79±.06; $M_{\phi r}$-1.84±.15; Best double couple: NP1:ϕ_s202.00000°,δ59.00000°,λ50.00000°. NP2:ϕ_s80.00000°,δ49.00000°,λ137.00000°. Principal axes: T 3.7060,Plg56.0000°,Azm57.0000°; N -0.6560,Plg33.0000°,Azm225.0000°; P -3.0430,Plg5.0000°,Azm319.0000° M_o3.37400×10^{16}

ISC IV 11 04 01 48.0–.79 9.76N–.03 125.50E–.06 18–4 4.4b,4.1s 92 0-146
MAN IV 11 04 01 49 9.76N 125.51E 32 5.3b,4.5s **¶16525105**
NEIC IV 11 04 01 56.0–.92 10.11N 125.30E 67–8 4.5b,4.5s
IDC IV 11 04 01 56.0–2.9 10.14N 125.28E 66–27 4.6L,4.2
GCMT IV 11 04 01 56.0–.30 9.89N 125.43E 21–1 5.0W,4.2
ISC Event type fe.
MAN Event type fe. INTENSITY IV - SURIGAO CITY; INTENSITY III - ST. BERNARD HINUNANGAN SOGOD S. LEYTE; ABUYOG LEYTE; INTENSITY II - MAINIT SURIGAO DEL NORTE; TACLOBAN CITY.
NEIC Event type fe. Error ellipse: s-maj=10.7km s-min=5.8km az=82.0. Felt [IV PIVS] at Surigao and [II PIVS] at Mainit, Mindanao. Felt [III PIVS] at Abuyog, Hinunangan, Saint Bernard and Sogod and [II PIVS] at Tacloban, Leyte.
IDC Error ellipse: s-maj=18.9km s-min=13.0km az=81.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c30; s86,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.01±.15 $M_{\theta\theta}$2.44±.12; $M_{\phi\phi}$-2.42±.14; $M_{r\theta}$-0.97±.21; $M_{\theta\phi}$-1.84±.09; $M_{\phi r}$-1.25±.26; Best double couple: NP1:ϕ_s65.00000°,δ82.00000°,λ-156.00000°. NP2:ϕ_s331.00000°,δ66.00000°,λ-9.00000°. Principal axes: T 3.1570,Plg11.0000°,Azm196.0000°; N 0.5100,Plg65.0000°,Azm82.0000°; P -3.6580,Plg23.0000°,Azm290.0000° $M_0$3.40700×10^{16}
ISC IV 11 04 31 37.3–.84 9.79N–.03 125.38E–.05 16–6 3.8b 32 0-95
ISCJB IV 11 04 31 37.0–.61 9.85N–.04 125.47E–.06 21–5 3.7b,3.1s **¶16553303**
IDC IV 11 04 31 37.6–1.5 10.25N 125.39E 0 4.6L,3.9
MAN IV 11 04 31 38 9.78N 125.40E 22 4.8b,3.7L
NEIC IV 11 04 31 41.3–.77 10.08N 125.50E 35 3.8b,3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=6.6km az=175.5.
IDC Error ellipse: s-maj=43.5km s-min=29.9km az=85.0.
MAN Event type fe. INTENSITY III - SURIGAO CITY; INTENSITY I - MAINIT SURIGAO DEL NORTE.
NEIC Event type fe. Error ellipse: s-maj=30.1km s-min=12.3km az=78.0. Felt [III PIVS] at Surigao and [I PIVS] at Mainit, Mindanao.
MAN IV 12 12 57 50 8.19N 124.84E 11 3.9s
¶601669008
MAN Event type fe. INTENSITY III - VALENCIA CITY BUKIDNON; INTENSITY I - MALAYBALAY BUKIDNON.
ISC IV 13 07 01 45.3–.99 8.4N–.20 126.2E–.30 34 3.3b 8 0-58
IDC IV 13 07 01 40.3–1.3 8.38N 126.15E 0 3.5,3.4 **¶17200872**
ISCJB IV 13 07 01 43.4–.77 8.3N–.20 126.0E–.10 34 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
MAN IV 13 16 25 41 6.84N 126.20E 22 4.4b,3.3L
¶601669012
MAN IV 13 20 03 41 8.47N 125.51E 268 4.6b,3.4L
¶601669013
ISC IV 13 21 49 41.1–.77 8.88N–.06 126.51E–.09 54 3.7b 21 1-95
IDC IV 13 21 49 33.7–.80 8.87N 126.35E 0 4.5s,4.5 **¶17200954**
ISCJB IV 13 21 49 39.1–.66 8.87N–.06 126.62E–.06 54 4.5s,3.7b
MAN IV 13 21 49 42 8.89N 126.37E 37 4.2b,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=41.2km s-min=16.5km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.4km az=40.7.
MAN IV 13 23 27 23 7.28N 124.01E 20 4.5b,3.3L
¶601669014
MAN IV 14 09 19 34 8.58N 126.41E 33 4.2b,3.0L
¶601669018
ISC IV 14 16 11 54.7–.31 5.89N–.03 126.25E–.04 152–2 5.0b 657 1-163
BJI IV 14 16 11 51.4 5.70N 126.21E 145 5.3b,5.1b **¶16427710**
MAN IV 14 16 11 53 5.81N 126.29E 151 5.7b,5.2s
MOS IV 14 16 11 53.6–.99 5.86N 126.11E 155 5.0b,5.2s
ISCJB IV 14 16 11 54.8–.23 5.89N–.01 126.25E–.02 167–2 5.0b,5.2s
KLM IV 14 16 11 54.3 5.84N 126.48E 154 6.0s,5.9L
NEIC IV 14 16 11 55.3–.47 5.89N 126.22E 157–4 5.1b,5.9L
IDC IV 14 16 11 55.8–.50 5.82N 126.17E 160–3 5.1,4.8
GCMT IV 14 16 11 55.3–.20 5.99N 126.40E 154–1 5.3W,4.8
DJA IV 14 16 12 01.7–.90 5N–8.0 126E–3.0 127–9 5.9,5.8b
ISC Event type fe.
MAN Event type fe. INTENSITY II - GENERAL SANTOS CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [II PIVS] at General Santos. Also felt at Davao and Digos.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c117; s105,c175;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.02 $M_{\theta\theta}$0.08±.02; $M_{\phi\phi}$-0.35±.03; $M_{r\theta}$-0.65±.01; $M_{\theta\phi}$-0.92±.02; $M_{\phi r}$0.44±.02; Best double couple: NP1:ϕ_s258.00000°,δ68.00000°,λ151.00000°. NP2:ϕ_s360.00000°,δ63.00000°,λ25.00000°. Principal axes: T 1.3640,Plg36.0000°,Azm217.0000°; N -0.2840,Plg54.0000°,Azm44.0000°; P -1.0810,Plg3.0000°,Azm310.0000° $M_0$1.22300×10^{17}
ISC IV 15 03 59 25.3–.80 5.70N–.08 126.2E–.10 116 3.7b 17 1-122
MAN IV 15 03 59 23 5.79N 126.32E 136 4.6b,3.5L **¶17201084**
ISCJB IV 15 03 59 24.1–.58 5.63N–.05 126.1E–.10 116 3.7b,3.5L
IDC IV 15 03 59 25.4–1.1 5.69N 126.00E 116–10 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=6.5km az=169.7.
IDC Error ellipse: s-maj=47.7km s-min=13.2km az=76.0.
ISC IV 15 04 21 35.1–1.5 9.76N–.03 126.28E–.06 11–9 4.3b 57 1-120
MAN IV 15 04 21 39 9.63N 126.16E 17 4.8b,3.7L **¶16536011**
NEIC IV 15 04 21 46.8–1.3 9.62N 126.12E 117–12 4.2b,3.7L
IDC IV 15 04 21 46.9–2.5 9.61N 126.01E 116–24 4.2,3.9
DJA IV 15 04 22 09.7–.90 9N–8.0 125E–9.0 243–8 5.0b,4.4
ISC Event type fe.
MAN Event type fe. INTENSITY I - SURIGO CITY; GENERAL LUNA SURIGAO DEL NORTE.
NEIC Event type fe. Felt [I PIVS] at General Luna and Surigao.
IDC IV 16 02 53 24.7–4.3 8.10N 123.04E 0 4.3s,4.3
¶17201187
IDC Error ellipse: s-maj=263.0km s-min=24.9km az=85.0.
MAN IV 16 09 29 11 8.85N 124.34E 44 3.7b,2.4L
¶601669029
ISC IV 18 23 06 15.6–1.0 9.93N–.08 125.87E–.07 10 4.1b 15 0-100
ISCJB IV 18 23 06 14.2–.90 9.85N–.09 126.03E–.06 10 3.9b,3.4s **¶17201453**
MAN IV 18 23 06 18 9.87N 125.79E 18 4.9b,3.9s
IDC IV 18 23 06 25.7–4.5 9.80N 126.05E 94–40 4.0,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=13.3km s-min=7.8km az=172.8.
MAN Event type fe. INTENSITY II - SURIGAO CITY; INTENSITY I - MALIMONO SURIGAO DEL NORTE.
IDC Error ellipse: s-maj=76.4km s-min=23.9km az=76.0.
IDC IV 19 11 11 46.8–2.1 6.38N 126.06E 0 3.7,3.3
¶17201494
IDC Error ellipse: s-maj=150.9km s-min=32.1km az=88.0.
ISC IV 19 17 57 47.7–.77 5.27N–.06 126.4E–.10 100 3.9b 17 2-90
MAN IV 19 17 57 40 5.23N 126.27E 8 5.0b,4.1s **¶17201530**
ISCJB IV 19 17 57 45.5–.61 5.29N–.05 126.3E–.10 100 3.8b,4.1s
IDC IV 19 17 57 47.3–1.6 5.14N 125.93E 92–16 3.9,3.8
DJA IV 19 17 58 01.9–.40 4N–3.0 126E–4.0 167–5 4.7b,4.3b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 20 09 02 23.1–2.0 5.01N 126.33E 0 3.8,3.6
¶17201605
IDC Error ellipse: s-maj=168.6km s-min=24.0km az=65.0.
ISC IV 21 10 53 05.4–.69 8.77N–.03 126.86E–.06 26–4 4.3b,3.6s 78 1-95
MAN IV 21 10 53 03 8.69N 127.22E 52 4.8b,3.8s **¶16451850**
BJI IV 21 10 53 07.9 8.90N 126.70E 54 4.8b,4.6b
IDC IV 21 10 53 11.3–2.5 8.60N 126.68E 84–24 4.1,3.9
NEIC IV 21 10 53 11.5–1.9 8.68N 126.65E 83–18 4.6b,3.9
DJA IV 21 10 53 11.9–2.7 9N–7.0 126E–7.0 26–21 5.3b,4.7
ISC Event type se.
NEIC Event type se.
ISC IV 21 14 20 24.6–.57 8.80N–.04 126.85E–.06 26–3 4.2b 55 1-121
MAN IV 21 14 20 23 8.72N 127.13E 38 5.0b,4.0s **¶16596717**
IDC IV 21 14 20 26.2–.62 8.79N 126.72E 37–4 4.3s,4.3L
NEIC IV 21 14 20 28.7–1.7 8.68N 126.62E 65–16 4.3b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=11.2km az=74.0.
NEIC Event type se. Error ellipse: s-maj=17.5km s-min=8.3km az=66.0.
ISC IV 21 18 06 44.5–.90 7.20N–.05 125.89E–.04 47–8 3.8b,3.5s 26 0-97
IDC IV 21 18 06 38.1–.82 7.26N 126.34E 0 4.0,3.9b **¶16596718**
NEIC IV 21 18 06 42.0–3.4 7.21N 126.17E 25–25 4.1b,3.9b
MAN IV 21 18 06 42 7.27N 125.96E 36 4.7b,3.6L
ISCJB IV 21 18 06 43.4–.46 7.19N–.05 125.91E–.04 55–5 3.8b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
MAN IV 21 20 17 52 8.56N 124.73E 25 3.9b,2.6L
¶601669053
ISC IV 22 01 30 26.7–2.0 6.32N–.07 124.64E–.05 5–12 3.8b,3.2s 20 1-89
ISCJB IV 22 01 30 26.6–1.5 6.30N–.05 124.67E–.05 13–9 3.6b,3.2s **¶17201766**
IDC IV 22 01 30 26.3–.98 6.30N 124.66E 0 3.7,3.6b
MAN IV 22 01 30 27 6.32N 124.65E 13 4.8b,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.7km az=142.3.
IDC Error ellipse: s-maj=25.7km s-min=19.0km az=107.0.
MAN IV 22 08 29 19 7.15N 124.08E 11 3.9b,2.7L
¶601669058
MAN IV 22 17 52 33 7.22N 126.28E 68 4.3b,3.2L
¶601669059
MAN IV 23 06 52 37 9.52N 125.71E 21 4.0b,2.8L
¶601669062
ISC IV 23 14 08 03.6–.50 5.83N–.08 124.0E–.10 500 3.7b 41 1-89
ISCJB IV 23 14 08 03.0–.36 5.91N–.06 123.99E–.08 500 3.6b **¶17201881**
IDC IV 23 14 08 03.7–.67 5.68N 123.95E 507–7 4.1,3.2
DJA IV 23 14 08 03.6–.70 6N–9.0 124E–4.0 479–7 4.9,4.6b
MAN IV 23 14 08 04 5.62N 124.21E 481 4.4s,4.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=6.3km az=154.9.
IDC Error ellipse: s-maj=22.4km s-min=7.8km az=64.0.
ISC IV 23 20 38 42.7–1.6 8.69N–.09 126.6E–.10 45–16 3.8b 22 1-95
ISCJB IV 23 20 38 43.2–.91 8.61N–.05 126.55E–.08 68–9 3.8b **¶17201906**
MAN IV 23 20 38 43 8.68N 126.41E 18 5.0b,4.0s
IDC IV 23 20 38 47.3–2.3 8.61N 126.38E 90–22 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.5km az=158.4.
IDC Error ellipse: s-maj=25.7km s-min=13.0km az=80.0.
MAN IV 24 20 58 42 7.30N 125.30E 23 4.3b,3.2L
¶601669071
MAN IV 25 06 42 53 7.26N 125.29E 29 4.8b,3.7L
¶601669073
MAN IV 25 09 44 29 8.95N 125.62E 15 4.1b,2.9L
¶601669075
MAN Event type fe. INTENSITY I - BUTUAN CITY.
IDC IV 25 18 07 13.5–2.0 5.20N 124.89E 0 3.6,3.5
¶17202067
IDC Error ellipse: s-maj=115.0km s-min=21.8km az=58.0.
MAN IV 26 14 31 14 7.35N 125.35E 4 4.3b,3.2L
¶601669079
ISC IV 26 15 52 20.1–.45 5.18N–.06 124.67E–.08 400 4.0b 68 2-121
KLM IV 26 15 52 16.4 5.12N 125.02E 345 5.0s,4.2b **¶16476097**
ISCJB IV 26 15 52 18.6–.29 5.16N–.04 124.74E–.06 400 4.0b,4.2b
IDC IV 26 15 52 18.8–.74 5.21N 124.69E 380–7 4.2,3.5
NEIC IV 26 15 52 20.1–1.6 5.40N 124.68E 382–7 4.1b,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.1km az=151.3.
IDC Error ellipse: s-maj=21.4km s-min=8.5km az=76.0.
NEIC Event type se. Error ellipse: s-maj=36.6km s-min=11.9km az=146.0.
MAN IV 27 00 36 23 8.39N 124.91E 33 3.5b,2.2L
¶601669083
IDC IV 27 08 00 38.8–18 6.30N 124.76E 390–233 4.1,3.4
¶17202218
IDC Error ellipse: s-maj=121.2km s-min=24.2km az=72.0.
IDC IV 27 17 37 30.7–1.3 5.47N 126.29E 0 3.6,3.5
¶17202247
IDC Error ellipse: s-maj=107.8km s-min=19.0km az=72.0.
MAN IV 27 18 07 38 6.61N 125.06E 22 4.5b,3.4L
¶601669085
MAN IV 29 20 38 50 6.44N 125.57E 32 4.3b,3.1L
¶601669091
MAN IV 30 01 05 11 6.84N 126.18E 47 4.3b,3.2L
¶601669094
MAN V 01 08 45 30 7.00N 123.76E 2 4.0b,2.7L
¶601669104
ISC V 01 11 06 57.1–.41 6.57N–.03 126.85E–.04 86–3 4.9b 508 1-162
MAN V 01 11 06 50 6.37N 127.10E 87 5.5b,4.9s **¶16485960**
KLM V 01 11 06 51.8 6.51N 127.30E 74 5.7s,5.1b
ISCJB V 01 11 06 54.5–.36 6.57N–.02 126.92E–.02 80–3 4.8b,5.1b
IDC V 01 11 06 54.0–1.2 6.58N 126.83E 61–10 4.6,4.5
BJI V 01 11 06 54.3 6.50N 126.90E 80 4.9b,4.7b
GCMT V 01 11 06 56.6–.20 6.56N 127.12E 36–1 5.1W,4.7b
MOS V 01 11 06 56.1–1.2 6.65N 126.81E 93 4.9b,4.3s
NEIC V 01 11 06 56.6–.60 6.55N 126.89E 83–5 5.0b,4.3s
DJA V 01 11 06 57.8–.60 7N–4.0 127E–3.0 77–5 5.8,5.6b
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s47,c56; s91,c117;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.74±.22 $M_{\theta\theta}$3.57±.17; $M_{\phi\phi}$-6.31±.17; $M_{r\theta}$-1.75±.24; $M_{\theta\phi}$0.86±.12; $M_{\phi r}$2.81±.26; Best double couple: NP1:ϕ_s321.00000°,δ74.00000°,λ45.00000°. NP2:ϕ_s216.00000°,δ47.00000°,λ158.00000°. Principal axes: T 5.0760,Plg43.0000°,Azm189.0000°; N 2.1950,Plg42.0000°,Azm337.0000°; P -7.2710,Plg17.0000°,Azm83.0000° $M_0$6.17400×10^{16}
NEIC Event type se.
IDC V 01 13 46 08.0–2.2 6.25N 125.89E 0 3.5,3.3
¶17202524
IDC Error ellipse: s-maj=170.5km s-min=26.0km az=65.0.
MAN V 01 14 07 27 6.67N 126.49E 15 4.7b,3.6L
¶601669105
IDC V 01 22 39 29.4–1.6 6.19N 124.45E 0 4.1,3.8
¶17202566
IDC Error ellipse: s-maj=204.8km s-min=26.5km az=72.0.
IDC V 02 19 51 50.9–1.1 5.15N 126.99E 0 4.1,4.0
¶17202637
IDC Error ellipse: s-maj=102.9km s-min=16.6km az=72.0.
IDC V 03 09 38 25.9–1.8 5.23N 123.04E 0 3.9,3.7
¶17202665
IDC Error ellipse: s-maj=213.3km s-min=23.9km az=62.0.
MAN V 03 19 39 44 6.89N 123.86E 34 4.5b,3.3L
¶601669110
ISC V 03 23 26 34.0–2.5 6.42N–.07 123.78E–.06 3–16 3.6b 22 1-54
ISCJB V 03 23 26 32.7–2.3 6.34N–.04 123.71E–.04 4–15 3.5b **¶17202719**
IDC V 03 23 26 34.0–.91 6.30N 123.75E 0 3.8,3.7b
MAN V 03 23 26 36 6.51N 123.79E 21 4.6b,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.8km az=170.7.
IDC Error ellipse: s-maj=23.5km s-min=16.8km az=58.0.
ISC V 04 22 34 57.9–.78 5.57N–.05 125.99E–.06 107–8 4.2b 66 1-98
ISCJB V 04 22 34 57.3–.46 5.54N–.03 125.87E–.05 118–4 4.2b **¶16708853**
MAN V 04 22 34 57 5.48N 125.91E 33 4.8b,3.8s
IDC V 04 22 34 57.8–.96 5.60N 125.80E 108–8 4.1,3.9
NEIC V 04 22 34 58.6–.72 5.60N 125.95E 115–7 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.2km az=179.4.
IDC Error ellipse: s-maj=28.8km s-min=9.7km az=84.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=5.8km az=80.0.
ISC V 05 03 46 34.8–.70 9.26N–.03 125.51E–.05 53–6 4.4b,4.1s 145 1-146
IDC V 05 03 46 26.5–.51 9.42N 125.91E 0 4.4L,4.2 **¶16497719**

MAN V 05 03 46 29 9.26N 125.47E 4 5.4b,4.6s
ISCJB V 05 03 46 32.5–.50 9.22N–.03 125.51E–.04 50–5 4.4b,4.1s
MOS V 05 03 46 34.5–1.9 9.27N 125.41E 66 4.9b,4.1s
GCMT V 05 03 46 38.0–.20 9.30N 125.56E 24–1 5.0W,4.1s
NEIC V 05 03 46 38.0–.98 9.16N 125.61E 92–10 4.5b,4.1s
DJA V 05 03 46 40.9–2.0 9N–14 126E–6.0 43–23 5.3b,5.2
ISC Event type fe.
MAN Event type fe. INTENSITY IV - MAINIT SURIGAO DEL NORTE; BARANGAY LA UNION CABADBARAN AGUSAN DEL NORTE; BUTUAN CITY; INTENSITY III - SURIGAO CITY; GIGAQUIT PLACER MALIMONO SURIGAO DEL NORTE; INTENSITY I - GENERAL LUNA SIARGAO.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c49; s91,c139;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.05±.14 $M_{\theta\theta}$1.00±.09; $M_{\phi\phi}$-1.05±.12; $M_{r\theta}$-1.40±.17; $M_{\theta\phi}$-3.55±.08; $M_{\phi r}$-1.07±.17; Best double couple: NP1:ϕ_s83.00000°,δ81.00000°,λ-159.00000°. NP2:ϕ_s350.00000°,δ69.00000°,λ-9.00000°. Principal axes: T 3.7390,Plg8.0000°,Azm215.0000°; N 0.6390,Plg67.0000°,Azm105.0000° ; P -4.3740,Plg21.0000°,Azm308.0000° $M_0$4.05600×10^{16}
NEIC Event type fe. Felt [IV PIVS] at Butuan, Cabadbaran, La Union and Mainit; [III PIVS] at Gigaquit, Malimono, Placer and Surigao; [I PIVS] at General Luna.
MAN V 05 19 32 14 7.14N 126.12E 20 4.6b,3.5L ¶601669117
ISC V 05 22 17 15.9–1.3 5.3N–.10 125.0E–.50 62 3.3b 5 1-55
IDC V 05 22 17 07.6–2.5 5.34N 125.10E 0 3.6,3.3 **¶17202880**
ISCJB V 05 22 17 13.7–1.2 5.21N–.09 124.9E–.40 62 3.3b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC V 07 04 05 36.9–1.5 9.41N–.04 125.89E–.09 44–15 4.2b,3.5s 43 2-120
IDC V 07 04 05 30.5–.64 9.37N 125.66E 0 4.2,4.0 **¶16578046**
MAN V 07 04 05 34 9.46N 125.94E 14 4.9b,3.9L
ISCJB V 07 04 05 36.3–.96 9.40N–.04 125.90E–.09 55–10 4.1b,3.5s
NEIC V 07 04 05 38.0–1.4 9.37N 125.73E 56–13 4.5b,3.5s
ISC Event type fe.
IDC Error ellipse: s-maj=39.7km s-min=13.2km az=86.0.
MAN Event type fe. INTENSITY III - CARRASCAL AND CANTILAN SURIGAO DEL SUR; INTENSITY II - CARMEN AND MADRID SURIGAO DEL SUR; INTENSITY I - CORTEZ SURIGAO DEL SUR; SOCORRO SURIGAO DEL SUR.
ISCJB Event type fe. Error ellipse: s-maj=15.3km s-min=5.9km az=170.0.
NEIC Event type fe. Error ellipse: s-maj=17.7km s-min=7.6km az=85.0. Felt [III PIVS] at Cantilan and Carrascal, [II PIVS] at Carmen and Madrid and [I PIVS] at Cortes and Socorro.
IDC V 07 19 54 23.4–5.8 9.40N 126.30E 0 3.9,3.7b ¶17203002
IDC Error ellipse: s-maj=406.5km s-min=36.4km az=89.0.
MAN V 08 21 06 02 7.04N 126.05E 202 4.6b,3.4L ¶601669131
IDC V 09 03 03 07.1–2.5 5.90N 125.57E 0 3.7,3.5 ¶17203100
IDC Error ellipse: s-maj=276.2km s-min=21.9km az=66.0.
MAN V 09 04 19 47 7.97N 124.60E 15 4.3b,3.1L ¶601669139
ISC V 09 08 56 54.4–2.2 5.80N–.07 124.12E–.07 1–15 3.9b 16 1-41
IDC V 09 08 56 52.1–10 5.93N 123.75E 0 4.3L,4.1 **¶17203114**
MAN V 09 08 56 58 5.81N 124.15E 32 5.0b,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=214.9km s-min=25.2km az=124.0.
MAN V 09 18 21 30 7.28N 123.73E 31 4.5b,3.4L ¶601669141
ISC V 09 19 13 28.9–.42 5.34N–.02 126.49E–.04 47–3 5.4b,5.3s 690 2-172
MAN V 09 19 13 18 4.73N 126.73E 59 5.9b,5.5s **¶16501972**
BJI V 09 19 13 22.8 4.95N 126.45E 38 5.4b,5.3b
MOS V 09 19 13 24.9–1.0 5.35N 126.47E 32 5.7b,5.1s
NEIC V 09 19 13 25.9–.34 5.34N 126.42E 29–2 5.5s,5.5b
IDC V 09 19 13 25.9–1.6 5.34N 126.24E 29–10 5.1,5.0
GCMT V 09 19 13 25.9–.20 5.33N 126.68E 32–0 5.7W,5.0
ISCJB V 09 19 13 27.5–.35 5.40N–.02 126.53E–.02 55–3 5.3b,5.2s
DJA V 09 19 13 30.9–.40 5N–2.0 127E–2.0 52–4 5.7b,5.3b
ISC Event type fe.
NEIC Event type fe. Felt at Santo Nino.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s66,c95; s90,c168;Duration: 1$\hat{}$7 Moment tensor: Scale 10^{17}Nm; M_{rr}3.80±.11 $M_{\theta\theta}$-0.13±.06; $M_{\phi\phi}$-3.67±.07; $M_{r\theta}$0.47±.10; $M_{\theta\phi}$-0.12±.05; $M_{\phi r}$1.60±.11; Best double couple: NP1:ϕ_s8.00000°,δ57.00000°,λ96.00000°. NP2:ϕ_s177.00000°,δ34.00000° ,λ81.00000°. Principal axes: T 4.1730,Plg77.0000°,Azm297.0000°; N -0.1630,Plg5.0000° ,Azm184.0000°; P -4.0100,Plg12.0000°,Azm93.0000° $M_0$4.09200×10^{17}
ISCJB Event type fe.
MAN V 10 17 50 00 8.73N 125.56E 23 4.4b,3.3L ¶601669151
ISC V 10 22 56 34.7–1.3 8.76N–.05 126.03E–.07 54–12 4.2b 60 1-145
IDC V 10 22 56 27.5–.62 8.86N 126.04E 0 4.2,4.1b **¶16709523**
MAN V 10 22 56 30 8.54N 125.84E 146 4.7b,3.6L
ISCJB V 10 22 56 32.0–.90 8.82N–.04 126.10E–.06 46–9 4.2b,3.1s
NEIC V 10 22 56 33.7–1.6 8.82N 126.12E 46–15 4.4b,3.1s
DJA V 10 22 56 46.0–1.4 8N–10 126E–8.0 35–17 5.6b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 11 01 28 06.8–.58 6.10N–.04 126.02E–.05 97–5 4.8b 271 1-163
DJA V 11 01 28 02.6–.60 7N–5.0 126E–4.0 49–5 5.7b,5.5 **¶16503611**
MOS V 11 01 28 02.9–1.2 6.08N 125.84E 77 5.1b,5.5
ISCJB V 11 01 28 05.8–.32 6.06N–.02 126.03E–.03 98–3 4.8b,5.5
MAN V 11 01 28 05 6.06N 125.99E 98 5.4b,4.6s
BJI V 11 01 28 06.0 6.00N 126.00E 105 5.0b,4.8b
IDC V 11 01 28 06.0–.70 6.02N 125.81E 97–5 4.7,4.4
NEIC V 11 01 28 08.4–.69 6.04N 125.95E 111–6 4.9b,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=11.1km s-min=6.0km az=110.5.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=3.5km az=168.1.
MAN Event type fe. INTENSITY II - DAVAO CITY.
IDC Error ellipse: s-maj=16.3km s-min=8.1km az=77.0.
NEIC Event type fe. Error ellipse: s-maj=6.5km s-min=4.5km az=76.0. Felt [II PIVS] at Davao and Digos.
ISC V 11 19 16 15.8–.83 6.31N–.04 126.10E–.06 57–8 4.4b 63 1-160
ISCJB V 11 19 16 13.9–.43 6.32N–.03 126.13E–.05 57–4 4.2b,3.7s **¶16709628**
IDC V 11 19 16 15.3–1.5 6.29N 126.01E 53–14 5.2L,4.2
DJA V 11 19 16 15.8–1.0 6N–9.0 126E–7.0 26–22 5.2b,4.9b
NEIC V 11 19 16 16.2–1.1 6.33N 126.06E 63–10 4.5b,4.9b
MAN V 11 19 16 16 6.53N 126.08E 39 4.9b,3.9s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=4.5km az=165.1.
IDC Error ellipse: s-maj=34.0km s-min=10.5km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=15.6km s-min=6.4km az=83.0. Felt [II PIVS] at Sigaboy.
ISC V 12 15 15 12.4–.34 6.67N–.03 123.70E–.04 612–3 4.8b 559 1-173
MAN V 12 15 15 10 6.71N 123.90E 620 5.5b,4.8s **¶16506970**
ISCJB V 12 15 15 11.6–.14 6.73N–.02 123.73E–.03 618–1 4.8b,4.8s
KLM V 12 15 15 12.3 6.70N 123.81E 601 5.7s,4.9b
NEIC V 12 15 15 12.7–.29 6.69N 123.67E 618–4 4.9b,4.9b
MOS V 12 15 15 12.2–.93 6.76N 123.69E 625 4.8b,4.9b
IDC V 12 15 15 12.7–.69 6.68N 123.71E 615–8 4.9,4.0
DJA V 12 15 15 13.2–.20 7N–3.0 124E–2.0 611–4 7.3,5.1b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
MAN V 13 07 23 37 6.93N 123.73E 9 4.5b,3.3L ¶601669166
ISC V 13 08 44 56.6–1.7 6.38N–.05 126.29E–.06 32–11 4.2b,3.5s 40 1-122
IDC V 13 08 44 58.4–3.1 6.50N 126.47E 48–28 4.0,3.9 **¶16577293**
NEIC V 13 08 44 59.0–2.0 6.48N 126.38E 53–17 4.2b,3.9
MAN V 13 08 44 59 6.55N 126.21E 15 4.6b,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=51.1km s-min=11.5km az=68.0.
NEIC Event type se. Error ellipse: s-maj=38.3km s-min=8.3km az=70.0.

MAN V 13 14 23 21 9.77N 124.71E 15 4.1b,2.9L ¶601669167
MAN V 13 16 23 51 9.28N 125.50E 3 4.6b,3.5L ¶601669168
IDC V 14 03 57 54.6–4.5 7.02N 124.52E 625–71 4.2,3.2 ¶17203586
IDC Error ellipse: s-maj=205.9km s-min=19.2km az=66.0.
ISC V 14 10 32 35.6–1.1 9.67N–.07 126.8E–.10 43 3.8b 13 2-85
IDC V 14 10 32 30.5–1.5 9.48N 125.99E 0 3.8,3.7 **¶17203601**
ISCJB V 14 10 32 33.4–.82 9.69N–.06 126.85E–.08 43 3.7b,3.7
MAN V 14 10 32 34 9.60N 126.11E 178 4.5b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=176.6km s-min=18.7km az=69.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.3km az=11.7.
MAN V 14 10 49 24 9.35N 125.54E 131 4.5b,3.3L ¶601669170
ISC V 16 12 05 52.2–1.2 6.8N–.20 126.8E–.10 60 3.3b 10 1-82
IDC V 16 12 05 44.3–1.3 7.14N 126.90E 0 3.7,3.4 **¶17203747**
ISCJB V 16 12 05 50.7–.97 6.9N–.10 126.9E–.10 60 3.3b,3.4
MAN V 16 12 05 53 6.88N 126.68E 16 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=75.6km s-min=25.1km az=75.0.
ISCJB Event type ke. Error ellipse: s-maj=21.7km s-min=8.4km az=35.7.
MAN V 16 12 45 27 8.74N 122.50E 31 4.2b,3.0L ¶601669183
MAN V 16 23 43 41 7.93N 125.06E 34 4.2b,3.0L ¶601669186
ISC V 17 19 44 06.5–.87 7.46N–.04 126.15E–.05 10 3.5b 19 1-54
ISCJB V 17 19 44 05.3–.74 7.40N–.05 126.22E–.05 10 3.4b **¶17203836**
IDC V 17 19 44 05.2–1.3 7.38N 126.29E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.9km az=146.5.
IDC Error ellipse: s-maj=22.5km s-min=11.9km az=158.0.
ISC V 18 14 23 13.3–1.1 6.33N–.09 126.45E–.08 89–9 3.7b 29 1-122
IDC V 18 14 23 10.3–4.6 6.58N 126.93E 68–37 3.8,3.7 **¶17203885**
MAN V 18 14 23 11 6.20N 126.42E 73 4.7b,3.7s
ISCJB V 18 14 23 12.1–.74 6.31N–.07 126.44E–.08 94–7 3.7b,3.7s
ISC Event type ke.
ISCJB Event type ke.
MAN V 18 20 31 27 7.01N 125.95E 48 4.5b,3.3L ¶601669192
MAN V 19 01 47 38 8.25N 126.90E 35 4.4b,3.2L ¶601669193
IDC V 19 02 10 58.5–2.0 5.34N 125.60E 0 3.7,3.5 ¶17203929
IDC Error ellipse: s-maj=131.3km s-min=25.0km az=70.0.
MAN V 19 16 47 38 8.24N 126.90E 37 4.4b,3.2L ¶601669195
MAN V 19 19 05 31 9.22N 125.84E 51 4.1b,2.9L ¶601669196
ISC V 20 17 34 37.0–1.5 6.37N–.09 126.39E–.10 68 3.2b 12 1-55
IDC V 20 17 34 28.8–2.0 6.28N 126.58E 0 3.5,3.3 **¶17204061**
ISCJB V 20 17 34 34.3–.77 6.31N–.05 126.42E–.07 68 3.3b,3.3
MAN V 20 17 34 38 6.66N 126.20E 17 4.6b,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=68.5km s-min=12.7km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.0km az=161.3.
MAN V 21 07 07 43 5.85N 125.83E 158 5.8b,5.3s ¶601669200
MAN V 21 19 14 12 6.37N 124.76E 32 4.5b,3.3L ¶601669208
ISC V 22 01 18 23.4–.69 6.0N–.20 123.4E–.50 574 3.7b 16 2-119
ISCJB V 22 01 18 22.5–.62 5.9N–.20 123.2E–.40 574 3.6b **¶17204172**
IDC V 22 01 18 26.1–1.8 5.90N 123.37E 604–24 4.1,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=59.7km s-min=11.2km az=156.5.
IDC Error ellipse: s-maj=90.8km s-min=8.5km az=66.0.
MAN V 22 17 38 15 9.66N 125.66E 33 4.4b,3.3L ¶601669211
ISC V 22 19 07 45.1–.36 6.00N–.03 125.76E–.04 168–2 5.2b 905 1-172
MOS V 22 19 07 41.4–.88 5.97N 125.59E 148 5.3b **¶16533381**
BJI V 22 19 07 43.5 6.02N 125.69E 161 5.2b,4.9b
KLM V 22 19 07 44.9 6.07N 126.00E 180 6.2s,5.4b
IDC V 22 19 07 44.5–.49 5.95N 125.61E 161–4 5.2,4.9
ISCJB V 22 19 07 45.2–.28 5.99N–.02 125.75E–.02 181–2 5.2b,4.9
GCMT V 22 19 07 46.1–.20 5.91N 125.79E 154–1 5.2W,4.9
NEIC V 22 19 07 46.1–.52 6.01N 125.70E 175–5 5.3b,4.9
DJA V 22 19 07 47.2–.80 6N–6.0 126E–7.0 120–12 5.7,5.6b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c56; s90,c156;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.24±.15 $M_{\theta\theta}$0.47±.18; $M_{\phi\phi}$-5.72±.22; $M_{r\theta}$1.07±.13; $M_{\theta\phi}$-2.73±.17; $M_{\phi r}$2.75±.17; Best double couple: NP1:ϕ_s21.00000°,δ58.00000°,λ90.00000°. NP2:ϕ_s200.00000°,δ32.00000°,λ89.00000°. Principal axes: T 5.9270,Plg77.0000°,Azm292.0000°; N 1.5060,Plg0.0000°,Azm201.0000° ; P -7.4380,Plg13.0000°,Azm111.0000° $M_0$6.68300×10^{16}
NEIC Event type fe. Felt at General Santos and Tupi.
MAN V 22 20 27 13 8.41N 126.69E 1 4.2b,3.0L ¶601669212
MAN V 23 03 44 34 8.01N 125.13E 5 4.3b,3.1L ¶601669217
MAN V 23 07 23 10 9.53N 126.21E 31 3.9b,2.6L ¶601669218
MAN V 23 19 09 33 7.59N 124.63E 100 3.9b,2.7L ¶601669224
MAN V 24 07 46 30 6.34N 125.45E 89 3.8b,2.5L ¶601669228
ISC V 24 08 13 43.8–.83 8.01N–.04 126.55E–.07 89–6 4.2b 45 0-144
IDC V 24 08 13 41.9–3.7 8.11N 126.70E 73–33 4.3,4.2 **¶16632917**
ISCJB V 24 08 13 43.1–.55 8.01N–.03 126.53E–.06 97–4 4.2b,4.2
NEIC V 24 08 13 44.2–2.2 8.02N 126.59E 94–19 4.5b,4.2
MAN V 24 08 13 44 7.96N 126.45E 98 4.7b,3.6L
ISC Event type fe.
IDC Error ellipse: s-maj=37.7km s-min=15.1km az=71.0.
ISCJB Event type fe. Error ellipse: s-maj=9.6km s-min=5.2km az=175.2.
NEIC Event type fe. Error ellipse: s-maj=37.1km s-min=11.2km az=71.0. Felt [I PIVS] at Lingig.
MAN Event type fe. INTENSITY I - LINGIG SURIGAO DEL SUR.
IDC V 25 14 59 42.7–2.2 5.68N 126.69E 0 3.6,3.5 ¶17204454
IDC Error ellipse: s-maj=186.1km s-min=24.2km az=65.0.
MAN V 26 15 29 58 6.84N 123.79E 8 4.6b,3.4L ¶601669239
MAN V 26 17 16 15 7.48N 123.65E 1 3.5b,2.2L ¶601669240
ISC V 27 14 19 25.0–.49 5.93N–.03 126.19E–.04 71–4 4.8b 514 1-163
MOS V 27 14 19 19.5–1.2 5.97N 126.09E 40 5.1b **¶16553941**
MAN V 27 14 19 21 5.86N 126.30E 68 5.6b,5.0s
ISCJB V 27 14 19 23.4–.35 5.96N–.02 126.25E–.03 74–3 4.8b,5.0s
GCMT V 27 14 19 24.8–.20 5.94N 126.31E 48–1 5.1W,5.0s
KLM V 27 14 19 25.0 6.16N 126.24E 68 5.7s,5.0b
NEIC V 27 14 19 24.8–.92 5.98N 126.12E 73–8 5.0b,5.0b
IDC V 27 14 19 25.4–.97 5.92N 126.08E 74–7 4.7,4.5
DJA V 27 14 19 25.4–.40 6N–3.0 126E–3.0 53–3 5.9,5.5
ISC Event type fe.
MAN Event type fe. INTENSITY III - MALITA DAVAO DEL SUR; INTENSITY II - GENERAL SANTOS CITY; KIDAPAWAN CITY.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c87; s75,c116;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.17±.14 $M_{\theta\theta}$0.43±.10; $M_{\phi\phi}$-4.60±.11; $M_{r\theta}$1.75±.09; $M_{\theta\phi}$-0.91±.10; $M_{\phi r}$0.52±.13; Best double couple: NP1:ϕ_s30.00000°,δ54.00000°,λ116.00000°. NP2:ϕ_s170.00000°,δ43.00000°,λ59.00000°. Principal axes: T 4.8630,Plg69.0000°,Azm357.0000°; N -0.0310,Plg21.0000°,Azm194.0000°

; P -4.8350,Plg5.0000°,Azm102.0000° $M_0$4.84900×10^{16}
NEIC Event type fe. Felt [II PIVS] at General Santos and Kidapawan.
MAN V 27 15 05 28 8.40N 123.42E 11 3.8b,2.6L ¶601669245
MAN V 27 19 29 54 6.19N 123.72E 31 4.7b,3.6L ¶601669248
ISC V 28 00 03 03.0–1.3 6.15N–.07 126.9E–.10 109–9 3.9b 28 1-122
ISCJB V 28 00 03 02.7–.94 6.13N–.06 126.8E–.10 119–7 3.9b **¶17204601**
MAN V 28 00 03 02 6.32N 127.03E 108 4.7b,3.6L
IDC V 28 00 03 04.3–2.0 6.15N 126.78E 118–16 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=10.5km az=175.7.
IDC Error ellipse: s-maj=42.0km s-min=13.8km az=70.0.
IDC V 28 16 14 20.1–2.1 5.18N 123.66E 0 3.5,3.3 ¶17204643
IDC Error ellipse: s-maj=281.9km s-min=23.2km az=64.0.
ISC V 29 05 45 53.2–.90 6.72N–.07 126.20E–.06 51–7 3.9b,3.4s 33 0-97
IDC V 29 05 45 50.8–3.9 6.90N 126.42E 28–27 4.0,3.9 **¶16711185**
NEIC V 29 05 45 51.0–2.7 6.89N 126.39E 31–20 4.5b,3.9
ISCJB V 29 05 45 52.7–.57 6.72N–.05 126.21E–.05 59–5 4.0b,3.2s
MAN V 29 05 45 53 6.75N 126.15E 36 4.6b,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=38.8km s-min=14.9km az=69.0.
NEIC Event type se. Error ellipse: s-maj=29.9km s-min=8.3km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=7.6km az=29.6.
MAN V 29 21 43 25 9.82N 126.19E 66 4.7b,3.6L ¶601669252
MAN V 30 05 47 53 8.72N 123.34E 17 4.1b,2.9L ¶601650925
MAN Event type fe. INTENSITY III - DIPOLOG CITY.
ISC V 30 19 29 40.4–.87 6.04N–.09 125.72E–.09 165–7 3.9b 27 1-89
ISCJB V 30 19 29 39.4–.56 6.08N–.07 125.74E–.08 175–5 3.8b **¶17204780**
IDC V 30 19 29 39.8–.82 5.98N 125.40E 159–8 4.1,3.8
MAN V 30 19 29 40 5.93N 125.69E 153 4.7b,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=10.7km az=147.9.
IDC Error ellipse: s-maj=42.5km s-min=10.3km az=73.0.
IDC V 31 06 32 43.5–1.8 5.71N 126.80E 0 4.0,3.9b ¶17204812
IDC Error ellipse: s-maj=164.1km s-min=20.3km az=66.0.
ISC V 31 08 43 48.0–1.6 8.41N–.05 123.22E–.08 6–11 3.5b,2.7s 14 1-52
IDC V 31 08 43 47.3–2.2 8.31N 123.13E 0 3.8,3.6b **¶17204818**
ISCJB V 31 08 43 48.2–1.8 8.43N–.06 123.14E–.07 15–14 3.5b,2.6s
ISC Event type ke.
ISCJB Event type ke.
MAN V 31 10 59 42 8.82N 123.43E 58 4.2b,3.0L ¶601650931
MAN Event type fe. INTENSITY III - DIPOLOG CITY; INTENSITY II - LINGASAD ZAMBOANGA DEL NORTE.
MAN VI 01 14 36 43 9.32N 124.73E 191 4.8b,3.7L ¶601650974
MAN VI 02 00 58 34 9.17N 125.60E 4 3.5b,3.4L ¶601651023
MAN Event type fe. INTENSITY II - BUTUAN CITY; CABADBARAN AGUSAN DEL NORTE.
ISC VI 03 23 24 36.0–1.1 5.9N–.10 125.9E–.10 119–14 3.8b 19 1-55
ISCJB VI 03 23 24 34.7–.65 6.0N–.10 126.0E–.10 142–14 3.6b **¶17205134**
IDC VI 03 23 24 35.0–1.5 5.61N 125.94E 93–27 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.9km s-min=13.8km az=30.9.
IDC Error ellipse: s-maj=113.2km s-min=18.1km az=68.0.
MAN VI 04 04 30 31 7.07N 125.93E 70 4.3b,3.2L ¶601651208
MAN VI 04 22 42 52 9.12N 126.72E 16 4.0b,2.8L ¶601651214
MAN VI 05 13 27 04 7.57N 123.30E 20 4.0b,2.8L ¶601653059
MAN VI 06 08 40 22 8.46N 124.60E 33 4.3b,3.1L ¶601653339
MAN Event type fe. INTENSITY II - CAGAYAN DE ORO CITY; INTENSITY I - ILIGAN CITY AND EL SALVADOR CITY.
ISC VI 06 12 09 07.0–1.4 7.27N–.08 127.0E–.10 60 3.2b 11 1-55
IDC VI 06 12 09 01.9–2.3 6.95N 126.05E 0 3.6,3.4 **¶17205411**
MAN VI 06 12 09 02 7.15N 127.16E 31 4.8b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=178.2km s-min=27.3km az=65.0.
MAN VI 06 14 23 47 8.38N 124.61E 20 4.4b,3.3L ¶601653340
ISC VI 06 21 55 10.3–2.4 8.74N–.05 126.79E–.09 3–15 4.0b 20 1-87
MAN VI 06 21 55 13 8.57N 127.02E 30 4.9b,3.9s **¶17205434**
IDC VI 06 21 55 24.0–4.1 8.33N 125.97E 110–31 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=110.2km s-min=21.0km az=70.0.
ISC VI 06 23 07 09.1–.80 5.52N–.03 126.60E–.05 80–7 4.6b 173 1-130
MAN VI 06 23 07 06 5.47N 126.47E 10 4.9b,3.9L **¶16558940**
ISCJB VI 06 23 07 07.9–.49 5.48N–.02 126.58E–.04 86–4 4.5b,3.9L
IDC VI 06 23 07 07.3–1.7 5.48N 126.55E 65–14 4.3,4.1
BJI VI 06 23 07 07.3 5.27N 126.69E 95 4.7b,4.6b
DJA VI 06 23 07 08.3–.80 5N–4.0 127E–7.0 48–10 5.3b,5.0
NEIC VI 06 23 07 09.3–.77 5.52N 126.58E 83–7 4.6b,5.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.7km az=170.1.
IDC Error ellipse: s-maj=20.0km s-min=9.5km az=81.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=72.0.
MAN VI 07 17 27 51 8.26N 126.64E 1 4.2b,3.0L ¶601653485
MAN VI 07 19 46 12 8.50N 124.64E 35 3.9b,2.7L ¶601653486
MAN VI 09 18 24 39 6.96N 125.89E 56 3.9b,2.7L ¶601653807
MAN VI 10 15 12 56 7.61N 124.13E 33 3.6b,2.4L ¶601653885
MAN VI 10 18 22 19 7.50N 124.49E 34 4.0b,2.8L ¶601653887
MAN VI 11 04 47 50 8.50N 124.68E 38 4.3b,3.1L ¶601654031
ISC VI 11 09 34 02.7–.97 9.34N–.03 124.01E–.04 31–7 4.1b,3.6s 58 0-120
MAN VI 11 09 34 02 9.41N 124.01E 24 4.5b,3.4L **¶17205768**
ISCJB VI 11 09 34 03.1–.33 9.39N–.02 124.02E–.03 45–4 4.0b,3.5s
IDC VI 11 09 34 13.5–2.3 9.32N 124.06E 129–21 4.1,3.8
ISC Event type fe.
MAN Event type fe. INTENSITY III - LOBOC BOHOL; INTENSITY II - TAGBILARAN CITY; DUMAGUETE CITY; CORTES BOHOL; INTENSITY I - MAMBAJAO CAMIGUIN; MANDAUE CITY.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=3.7km az=4.8.
IDC Error ellipse: s-maj=26.1km s-min=10.9km az=64.0.
MAN VI 11 12 21 18 8.43N 124.61E 34 4.4b,3.2L ¶601654033
MAN VI 12 10 31 35 6.15N 124.13E 45 3.8b,2.5L ¶601654091
MAN VI 12 12 56 00 8.26N 124.73E 27 4.2b,3.0L ¶601654094
MAN VI 12 18 29 03 8.56N 126.66E 20 4.3b,3.1L ¶601654097
MAN VI 13 03 57 06 8.69N 126.00E 130 4.3b,3.2L ¶601654153
MAN VI 13 15 06 11 6.95N 126.25E 264 4.6b,3.5L ¶601654159
MAN VI 13 20 09 08 8.01N 126.44E 6 3.9b,2.7L ¶601654161
MAN VI 14 07 44 56 6.26N 126.14E 26 4.8b,3.7L ¶601654195

ISC VI 15 06 24 25.3–1.5 8.05N–.04 123.24E–.05 25–11 3.9b 27 1-86
IDC VI 15 06 24 22.1–.97 8.49N 123.47E 0 4.5L,3.9 **¶17206164**
MAN VI 15 06 24 24 8.06N 123.28E 20 4.4b,3.3L
ISCJB VI 15 06 24 25.2–.81 8.06N–.04 123.24E–.04 31–6 3.8b,2.6s
ISC Event type fe.
MAN Event type fe. INTENSITY III - MOLAVE AND AURORA ZAMBOANGA DEL SUR; INTENSITY I - PAGADIAN CITY.
ISCJB Event type fe.
MAN VI 15 07 54 45 9.48N 125.89E 5 4.7b,3.6L ¶601654270
MAN Event type fe. INTENSITY IV - CARRASCAL AND CANTILAN SURIGAO DEL SUR; INTENSITY III - MADRID SURIGAO DEL SUR; INTENSITY II - CARMEN SURIGAO DEL SUR.
MAN VI 15 16 53 19 9.48N 125.89E 5 4.6b,3.4L ¶601654271
ISC VI 16 16 38 00.5–1.7 8.89N–.03 126.93E–.06 0–10 4.1b 49 1-118
IDC VI 16 16 38 10.3–3.2 8.86N 126.60E 75–30 4.0,3.8 **¶17206331**
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=13.3km az=71.0.
MAN VI 17 15 30 10 8.38N 124.57E 20 4.5b,3.4L ¶601654349
MAN VI 17 15 45 18 8.42N 124.63E 38 4.2b,3.0L ¶601654350
ISC VI 19 08 29 10.1–.47 6.60N–.04 126.92E–.05 110–3 4.6b 226 1-122
IDC VI 19 08 29 08.5–.62 6.59N 127.00E 99–4 4.6,4.3 **¶16632970**
MOS VI 19 08 29 09.2–.85 6.63N 126.88E 115 4.8b,4.3
ISCJB VI 19 08 29 09.2–.48 6.59N–.03 126.93E–.04 118–3 4.5b,4.3
NEIC VI 19 08 29 11.4–.60 6.55N 126.86E 124–5 4.6b,4.3
KLM VI 19 08 29 12.8 7.00N 126.78E 140 5.9s,4.7b
DJA VI 19 08 29 17.6–1.2 6N–5.0 126E–12 91–6 6.0b,5.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
MAN VI 20 08 38 06 8.28N 123.47E 32 4.1b,2.9L ¶601654505
MAN VI 20 23 10 16 8.13N 126.42E 83 4.1b,2.9L ¶601654512
MAN VI 21 03 38 13 7.83N 121.46E 32 4.3b,3.2L ¶601654589
MAN VI 21 11 29 49 6.97N 126.47E 17 4.2b,3.1L ¶601654591
MAN VI 21 18 45 32 6.27N 126.61E 107 4.7b,3.5L ¶601654593
ISC VI 23 10 31 56.2–.85 6.50N–.09 125.82E–.09 143–8 3.8b 20 1-121
ISCJB VI 23 10 31 55.0–.59 6.50N–.08 125.83E–.09 149–6 3.6b **¶17206810**
IDC VI 23 10 31 55.9–1.2 6.62N 125.94E 143–5 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=12.9km az=165.6.
IDC Error ellipse: s-maj=98.7km s-min=14.0km az=69.0.
MAN VI 23 23 12 28 5.30N 125.81E 118 4.6b,3.5L ¶601654777
ISC VI 24 17 23 43.5–.31 6.67N–.03 123.62E–.04 596–3 4.9b 697 1-165
BJI VI 24 17 23 37.6 6.14N 123.88E 590 5.2b,5.0b **¶16679647**
ISCJB VI 24 17 23 42.9–.13 6.69N–.02 123.61E–.02 603–1 4.9b,5.0b
MOS VI 24 17 23 42.7–.92 6.70N 123.58E 599 5.0b,5.0b
KLM VI 24 17 23 43.2 6.70N 123.75E 602 5.7s,5.3b
MAN VI 24 17 23 43 6.74N 123.75E 593 5.5b,5.0s
IDC VI 24 17 23 44.0–.65 6.64N 123.55E 599–7 5.1,4.3
NEIC VI 24 17 23 43.7–.27 6.65N 123.57E 598–3 5.0b,4.3
GCMT VI 24 17 23 43.7–.50 6.67N 123.40E 598–3 5.3W,4.3
DJA VI 24 17 23 44.2–.20 7N–3.0 124E–2.0 600–2 5.6,5.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s42,c60;Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.33±.06 $M_{\theta\theta}$0.03±.06; $M_{\phi\phi}$0.29±.08; $M_{r\theta}$-0.21±.07; $M_{\theta\phi}$0.24±.08; $M_{\phi r}$-1.19±.07; Best double couple: NP1:ϕ_s11.00000°,δ82.00000°,λ-98.00000°. NP2:ϕ_s235.00000°,δ11.00000°,λ-46.00000°. Principal axes: T 1.2950,Plg37.0000° ,Azm108.0000°; N -0.0490,Plg8.0000°,Azm12.0000°; P -1.2460,Plg52.0000°,Azm272.0000° $M_0$1.27000×10^{17}
ISC VI 26 18 33 20.2–2.0 6.36N–.07 126.7E–.10 10–15 17 1-9
DJA VI 26 18 33 16.2–1.2 7N–11 127E–10 161–15 5.2b,4.5b **¶602004644**
ISC Event type ke.
MAN VI 26 21 16 57 7.17N 122.09E 31 3.7b,2.4L ¶601655013
MAN Event type fe. INTENSITY I - ZAMBOANGA CITY.
MAN VI 27 17 24 53 8.82N 122.71E 32 3.7b,2.5L ¶601655120
MAN VI 27 17 53 07 8.81N 122.71E 32 3.9b,2.6L ¶601655122
MAN VI 27 19 36 54 8.08N 122.05E 1 4.0b,2.8L ¶601655123
MAN VI 27 21 05 30 6.61N 124.67E 26 4.6b,3.5L ¶601655126
MAN VI 27 22 15 50 8.81N 126.46E 18 4.1b,2.9L ¶601655127
ISC VI 28 10 45 53.0–1.1 6.23N–.09 126.01E–.09 35 3.5b 11 1-55
IDC VI 28 10 45 49.4–1.1 5.98N 125.53E 0 3.7,3.5 **¶17207135**
ISCJB VI 28 10 45 51.6–.76 6.15N–.06 125.96E–.09 35 3.4b,3.5
MAN VI 28 10 45 52 6.40N 126.12E 45 4.8b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=58.1km s-min=10.5km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.3km az=161.6.
IDC VI 28 11 26 54.3–1.6 5.57N 125.24E 0 3.7,3.6 ¶17207137
IDC Error ellipse: s-maj=216.9km s-min=23.8km az=68.0.
IDC VI 28 15 31 13.4–2.0 5.26N 125.67E 0 3.6,3.4 ¶17207147
IDC Error ellipse: s-maj=124.6km s-min=24.1km az=68.0.
ISC VI 28 17 58 21.9–.68 9.25N–.03 126.63E–.07 20–4 4.0b 44 1-85
IDC VI 28 17 58 19.1–1.6 9.21N 126.64E 0 3.9,3.8 **¶16731719**
NEIC VI 28 17 58 20.0–.37 9.35N 126.88E 10 4.4b,3.8
MAN VI 28 17 58 27 9.09N 126.37E 32 4.7b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=118.3km s-min=20.3km az=72.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=6.5km az=82.0.
ISC VI 28 20 44 47.2–1.2 8.5N–.10 127.0E–.10 50 3.6b 12 1-88
ISCJB VI 28 20 44 45.3–.89 8.47N–.09 127.14E–.07 50 3.6b **¶17207155**
IDC VI 28 20 44 53.8–6.4 8.26N 126.63E 106–54 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=10.3km az=170.2.
IDC Error ellipse: s-maj=81.9km s-min=17.9km az=66.0.
ISC VI 29 01 47 44.5–1.2 5.8N–.10 126.10E–.09 103–13 3.5b 18 1-56
MAN VI 29 01 47 41 5.59N 126.15E 96 4.9b,3.9s **¶17207162**
ISCJB VI 29 01 47 43.8–.83 5.79N–.09 126.07E–.09 115–11 3.6b,3.9s
IDC VI 29 01 47 44.9–1.9 5.93N 126.31E 113–17 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=14.2km az=18.4.
IDC Error ellipse: s-maj=93.3km s-min=16.8km az=70.0.
MAN VI 30 13 51 46 9.01N 126.14E 29 4.3b,3.2L ¶601655347
MAN VI 30 14 58 19 7.60N 124.82E 33 4.4b,3.2L ¶601655348
ISC VI 30 19 25 57.4–.88 7.03N–.07 125.32E–.05 20–5 3.7b 14 0-42
IDC VI 30 19 25 55.4–3.9 6.87N 125.23E 0 3.9,3.7 **¶17207269**
ISCJB VI 30 19 25 57.1–.68 6.98N–.05 125.31E–.04 28–6 3.5b,3.7
MAN VI 30 19 25 58 7.15N 125.23E 11 4.4b,3.3L
ISC Event type ke.
IDC Error ellipse: s-maj=81.3km s-min=8.2km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.3km az=25.4.

(260) East of Philippine Islands.

ISC	**VI**	**01 04 42 09.8–.98**	**5.9N–.20**	**128.0E–.20**	**53**	**4.1b**	**11**	**3-123**
ISCJB	VI	01 04 42 08.3–.83	5.8N–.10	128.0E–.10	53	4.0b		¶17204863
IDC	VI	01 04 42 15.9–5.6	5.56N	127.40E	102–45	4.1,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.3km s-min=9.6km az=42.5.
IDC Error ellipse: s-maj=120.7km s-min=13.8km az=65.0.

SEISMIC REGION 23.
Borneo-Sulawesi.

(261) Borneo.

IDC	**I**	**08 10 02 56.1–1.1**	**1.26N**	**117.70E**	**0**	**3.7,3.6b**		¶17189691

IDC Error ellipse: s-maj=156.6km s-min=16.7km az=61.0.

IDC	**IV**	**05 11 39 19.7–8.6**	**1.93S**	**117.91E**	**0**	**3.6,3.4**		¶17199887

IDC Error ellipse: s-maj=291.7km s-min=131.9km az=46.0.

ISC	**IV**	**07 12 34 27.3–.64**	**1.35N–.06**	**118.08E–.06**	**32**	**3.9b**	**27**	**3-82**
IDC	IV	07 12 34 22.3–.73	1.44N	118.23E	0	4.5L,4.3		¶17200113
ISCJB	IV	07 12 34 25.2–.46	1.32N–.05	118.05E–.07	32	4.0b,3.0s		
NEIC	IV	07 12 34 27.4–.47	1.34N	118.13E	35	4.1b,3.0s		
DJA	IV	07 12 34 28.8–.40	1N–3.0	118E–4.0	52–77	5.0b,4.7b		

ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Tanjungredep.

ISC	**IV**	**14 12 41 47.4–2.8**	**0.3S–.50**	**112.2E–.40**	**35**	**4.0b**	**8**	**23-135**
IDC	IV	14 12 41 41.0–2.7	0.48S	112.22E	0	3.9,3.9		¶17201024

ISC Event type ke.
IDC Error ellipse: s-maj=90.4km s-min=43.6km az=41.0.

KLM	**V**	**04 07 43 32.0**	**4.94N**	**117.59E**	**0**	**4.0b,3.2L**		¶601721546
KLM	**VI**	**14 09 21 29.7**	**5.28N**	**117.31E**	**8**	**4.6s,3.6b**		¶16841886

(262) Celebes Sea.

ISC	**I**	**02 08 31 26.0–.76**	**2.70N–.09**	**123.0E–.10**	**450**	**3.2b**	**22**	**2-56**
ISCJB	I	02 08 31 25.0–.67	2.73N–.08	123.1E–.10	450	3.2b		¶17189200
IDC	I	02 08 31 27.2–1.6	2.60N	122.95E	470–19	3.7,2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=10.6km az=1.4.
IDC Error ellipse: s-maj=41.8km s-min=12.3km az=74.0.

IDC	**I**	**04 02 51 16.3–4.5**	**3.73N**	**123.30E**	**574–67**	**3.6,2.6**		¶17189381

IDC Error ellipse: s-maj=148.6km s-min=17.2km az=68.0.

IDC	**I**	**04 21 27 50.2–36**	**4.18N**	**122.61E**	**0**	**4.1,3.9**		¶17189456

IDC Error ellipse: s-maj=598.3km s-min=272.4km az=154.0.

IDC	**I**	**07 04 34 57.0–2.1**	**3.98N**	**123.70E**	**0**	**3.9,3.7**		¶17189621

IDC Error ellipse: s-maj=300.2km s-min=24.9km az=63.0.

ISC	**I**	**09 02 02 40.8–.66**	**3.2N–.10**	**122.5E–.20**	**552**	**3.6b**	**17**	**10-119**
ISCJB	I	09 02 02 39.6–.56	3.2N–.10	122.5E–.20	552	3.6b		¶17189734
IDC	I	09 02 02 42.9–1.9	3.24N	122.67E	581–27	4.1,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.0km s-min=10.6km az=147.4.
IDC Error ellipse: s-maj=29.2km s-min=11.8km az=66.0.

ISC	**I**	**09 15 50 26.3–.49**	**2.31N–.07**	**122.78E–.07**	**450**	**3.7b**	**57**	**2-120**
ISCJB	I	09 15 50 25.8–.30	2.34N–.04	122.75E–.04	450	3.7b		¶17189776
DJA	I	09 15 50 27.2–.40	2N–5.0	123E–3.0	457–6	4.8b,4.3		
IDC	I	09 15 50 27.5–1.3	2.22N	122.74E	471–16	4.1,3.4		
KLM	I	09 15 50 31.4	2.53N	122.49E	483	4.4b,3.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=34.2.
IDC Error ellipse: s-maj=18.0km s-min=8.7km az=74.0.

ISC	**I**	**12 18 17 19.8–1.1**	**2.1N–.10**	**124.36E–.08**	**300**	**3.2b**	**14**	**2-58**
ISCJB	I	12 18 17 18.9–1.1	2.1N–.10	124.37E–.09	300	3.4b		¶17190005
DJA	I	12 18 17 24.3–2.5	2N–20	124E–5.0	260–24	4.2,4.1		
IDC	I	12 18 17 25.6–3.5	1.94N	124.11E	362–35	3.8,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=12.6km az=11.3.
IDC Error ellipse: s-maj=90.7km s-min=14.2km az=65.0.

IDC	**I**	**17 21 41 14.4–13**	**5.85N**	**122.75E**	**610–219**	**4.0,3.0**		¶17190429

IDC Error ellipse: s-maj=200.5km s-min=36.3km az=61.0.

IDC	**I**	**17 23 39 17.2–2.2**	**4.04N**	**124.58E**	**0**	**3.8,3.5**		¶17190437

IDC Error ellipse: s-maj=203.5km s-min=28.8km az=64.0.

IDC	**I**	**21 05 34 15.0–1.2**	**3.63N**	**122.16E**	**0**	**3.8,3.7**		¶17190662

IDC Error ellipse: s-maj=167.7km s-min=20.9km az=66.0.

IDC	**I**	**22 20 11 24.6–1.7**	**2.54N**	**124.24E**	**0**	**3.4,3.3**		¶17190764

IDC Error ellipse: s-maj=205.6km s-min=23.7km az=64.0.

ISC	**I**	**23 16 44 38.5–.63**	**2.02N–.05**	**120.66E–.07**	**35**	**3.9b**	**39**	**2-86**
IDC	I	23 16 44 32.6–.75	2.00N	120.74E	0	4.1,4.0b		¶16020108
ISCJB	I	23 16 44 36.4–.41	2.09N–.04	120.67E–.05	33	3.9b,3.1s		
DJA	I	23 16 44 38.5–2.0	2N–3.0	121E–3.0	30–23	5.2b,4.8		
NEIC	I	23 16 44 40.0–1.2	1.83N	120.41E	53–12	4.2b,4.8		

ISC Event type se.
IDC Error ellipse: s-maj=93.1km s-min=15.2km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.5km az=149.3.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=8.1km az=59.0.

IDC	**I**	**27 17 15 17.6–1.3**	**3.17N**	**124.79E**	**0**	**3.4,3.3**		¶17191131

IDC Error ellipse: s-maj=144.3km s-min=21.6km az=68.0.

ISC	**I**	**30 07 01 01.4–.77**	**4.54N–.06**	**124.5E–.10**	**10**	**3.8b**	**13**	**2-85**
IDC	I	30 07 01 00.7–1.2	4.53N	124.78E	0	4.0,3.7		¶17191295
DJA	I	30 07 01 14.4–2.4	4N–4.0	124E–9.0	28–26	4.5,4.5		

ISC Event type ke.

ISC	**I**	**31 20 17 52.3–.34**	**4.02N–.05**	**122.72E–.07**	**604**	**4.5b**	**150**	**3-119**
BJI	I	31 20 17 43.9	3.36N	123.05E	581	4.8b,4.8b		¶16397345
ISCJB	I	31 20 17 50.7–.21	3.99N–.03	122.71E–.05	604	4.4b,4.8b		
MOS	I	31 20 17 50.5–.84	4.04N	122.64E	600	4.8b,4.8b		
IDC	I	31 20 17 51.8–.76	3.97N	122.66E	596–9	4.7,3.7		
DJA	I	31 20 17 54.6–.70	4N–8.0	123E–5.0	514–9	5.1,5.0b		

ISC Event type ke.
ISCJB Event type ke.

IDC	**II**	**01 19 57 18.6–1.6**	**4.64N**	**124.55E**	**0**	**3.9,3.8**		¶17191509

IDC Error ellipse: s-maj=115.7km s-min=21.6km az=67.0.

IDC	**II**	**03 06 44 51.3–18**	**2.71N**	**124.28E**	**0**	**4.1,3.9b**		¶17191579

IDC Error ellipse: s-maj=324.0km s-min=288.6km az=102.0.

ISC	**II**	**03 10 00 11.3–.63**	**3.43N–.09**	**124.51E–.09**	**331**	**4.1b**	**29**	**4-91**
ISCJB	II	03 10 00 10.4–.51	3.53N–.06	124.51E–.07	331	3.9b		¶17191589
IDC	II	03 10 00 12.8–1.9	3.29N	124.37E	352–20	4.4,3.8		
DJA	II	03 10 00 13.2–.70	3N–9.0	125E–4.0	331–9	5.1b,4.8		

ISC Event type ke.
ISCJB Event type ke.

IDC	**II**	**04 05 51 41.1–12**	**2.96N**	**122.75E**	**650–234**	**3.8,2.7**		¶17191637

IDC Error ellipse: s-maj=110.5km s-min=22.0km az=92.0.

IDC	**II**	**04 14 38 10.5–1.3**	**2.25N**	**124.58E**	**0**	**3.7,3.6**		¶17191654

IDC Error ellipse: s-maj=168.2km s-min=19.5km az=65.0.

IDC	**II**	**07 02 14 02.3–6.5**	**3.30N**	**124.91E**	**201–67**	**3.7,3.4**		¶17191840

IDC Error ellipse: s-maj=41.1km s-min=15.9km az=78.0.

IDC	**II**	**07 04 23 43.7–22**	**4.52N**	**123.17E**	**501–308**	**4.0,3.2**		¶17191844

IDC Error ellipse: s-maj=125.6km s-min=41.6km az=51.0.

ISC	**II**	**09 20 59 17.1–.65**	**4.49N–.08**	**123.9E–.10**	**450**	**3.8b**	**26**	**3-90**
ISCJB	II	09 20 59 16.2–.48	4.53N–.06	123.84E–.09	450	3.6b		¶17191961
IDC	II	09 20 59 18.4–2.2	4.47N	123.90E	464–28	4.1,3.5		
DJA	II	09 20 59 21.6–.80	4N–8.0	124E–6.0	418–18	4.5b,4.2		

ISC Event type ke.
ISCJB Event type ke.

ISC	**II**	**10 14 39 28.2–.20**	**4.13N–.02**	**123.06E–.03**	**533–1**	**6.2b**	**2747**	**2-175**
MAN	II	10 14 39 26	4.06N	123.15E	540	6.7b,6.7s		¶602064445
KLM	II	10 14 39 27.5	4.19N	123.24E	540	6.9L,6.9s		
GCMT	II	10 14 39 27.7–.10	4.14N	122.91E	521–0	6.5W,6.9s		
NEIC	II	10 14 39 27.7–.09	4.20N	122.97E	523	6.5W,6.5W		
ISCJB	II	10 14 39 27.9–.13	4.18N–.01	123.07E–.01	539–1	6.1b,6.5W		
MOS	II	10 14 39 27.7–1.1	4.22N	123.07E	535	6.2b,5.5s		
IDC	II	10 14 39 28.1–.38	4.16N	123.05E	527–4	6.4,5.5		
BJI	II	10 14 39 28.1	4.20N	123.20E	530	6.2b,6.2b		
DJA	II	10 14 39 28.3–.20	4N–2.0	123E–1.0	534–2	7.3,6.4b		
NEIC	II	10 14 39 28.0–.00	4.13N	123.02E	528	7.3,6.4b		

ISC Event type fe.
MAN Event type fe. INTENSITY III - DAVAO CITY; INTENSITY II - GENERAL SANTOS CITY; KIDAPAWAN CITY.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s142,c358; s105,c186; Duration: 4s5 Moment tensor: Scale 10^{18}Nm; M_{rr}-5.05±.04 $M_{\theta\theta}$1.49±.06; $M_{\phi\phi}$3.56±.07; $M_{r\theta}$-2.21±.06; $M_{\theta\phi}$2.00±.06; $M_{\phi r}$-5.52±.06; Best double couple: NP1:ϕ_s24.00000°,δ70.00000°,λ-95.00000°. NP2:ϕ_s217.00000°,δ20.00000°,λ-78.00000°. Principal axes: T 7.5380,Plg25.0000°,Azm118.0000°; N 0.3460,Plg4.0000°,Azm26.0000°; P -7.8840,Plg64.0000°,Azm287.0000° $M_0$7.71100×10^{18}
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=59.0. Felt [III] at Labuha and on Pulau Ternate, Indonesia. Felt [III PIVS] at Davao and [II PIVS] at General Santos and Kidapawan, Philippines. Also felt at Panabo. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s26 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.92 $M_{\theta\theta}$1.64 $M_{\phi\phi}$3.27 $M_{r\theta}$-2.79 $M_{\theta\phi}$3.13 $M_{\phi r}$-5.82 Best double couple: NP1:ϕ_s28.00000°,δ71.00000°,λ-98.00000°. NP2:ϕ_s230.00000°,δ21.00000°,λ-69.00000°. Principal axes: T 8.6600,Plg25.0000°,Azm124.0000°; N -0.6100,Plg7.0000°,Azm30.0000°; P -8.0700,Plg64.0000°,Azm286.0000° $M_0$8.40000×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.7km az=148.8.
MOS Error ellipse: s-maj=6.4km s-min=3.9km az=116.7.
IDC Error ellipse: s-maj=6.4km s-min=4.7km az=64.0.
NEIC Event type se. Moment Tensor Solution. s46 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.59 $M_{\theta\theta}$1.19 $M_{\phi\phi}$3.39 $M_{r\theta}$-2.18 $M_{\theta\phi}$1.44 $M_{\phi r}$-4.61 Best double couple: NP1:ϕ_s25.00000°,δ69.00000°,λ-90.00000°. NP2:ϕ_s206.00000°,δ20.00000°,λ-88.00000°. Principal axes: T 6.4600,Plg25.0000°,Azm116.0000°; N 0.4800,Plg0.0000°,Azm26.0000°; P -6.9400,Plg65.0000°,Azm295.0000° $M_0$6.70000×10^{18}

ISC	**II**	**10 14 41 59.6–.24**	**4.05N–.02**	**123.03E–.03**	**531–2**	**6.2b**	**1885**	**3-176**
KLM	II	10 14 41 48.1	4.14N	122.98E	346	7.6s,6.5b		¶16020160
BJI	II	10 14 41 58.8	4.05N	123.15E	520	6.4b,6.4b		
NEIC	II	10 14 41 58.8–.15	4.08N	123.04E	525	6.6W,6.3b		
MOS	II	10 14 41 58.8–1.0	4.12N	123.04E	527	6.2b,5.6s		
GCMT	II	10 14 41 58.8–.20	4.22N	123.28E	518–1	6.5W,5.6s		
ISCJB	II	10 14 41 59.3–.22	4.10N–.02	123.07E–.02	534–2	6.2b,5.6s		
MAN	II	10 14 41 59	4.10N	123.28E	552	6.5b,6.5s		
IDC	II	10 14 42 00.2–.37	4.05N	123.02E	528–3	6.4,5.5		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.6km az=65.0. Felt at Manado and on Pulau Ternate, Indonesia. Felt [III] at Davao, Philippines. Also felt at General Santos and Panabo. Moment Tensor Solution. s31 Moment tensor: Scale 10^{18}Nm; M_{rr}-4.06 $M_{\theta\theta}$1.95 $M_{\phi\phi}$2.11 $M_{r\theta}$-0.83 $M_{\theta\phi}$1.05 $M_{\phi r}$-7.98 Best double couple: NP1:ϕ_s9.00000°,δ79.00000°,λ-97.00000°. NP2:ϕ_s222.00000°,δ13.00000°,λ-59.00000°. Principal axes: T 7.8800,Plg34.0000°,Azm105.0000°; N 1.6500,Plg7.0000°,Azm11.0000°; P -9.5300,Plg56.0000°,Azm271.0000° $M_0$8.80000×10^{18}
MOS Error ellipse: s-maj=7.8km s-min=4.3km az=120.3.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s99,c148; s75,c113; Duration: 4s4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.62±.09 $M_{\theta\theta}$0.83±.13; $M_{\phi\phi}$-1.45±.12; $M_{r\theta}$-1.47±.12; $M_{\theta\phi}$-0.12±.11; $M_{\phi r}$-7.01±.09; Best double couple: NP1:ϕ_s192.00000°,δ86.00000°,λ93.00000°. NP2:ϕ_s337.00000°,δ5.00000°,λ55.00000°. Principal axes: T 6.8480,Plg49.0000°,Azm105.0000°; N 0.7840,Plg3.0000°,Azm12.0000°; P -7.6350,Plg41.0000°,Azm280.0000° $M_0$7.24200×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=143.9.
IDC Error ellipse: s-maj=6.4km s-min=4.7km az=59.0.

IDC	**II**	**10 14 55 21.6–4.3**	**4.06N**	**123.42E**	**538–53**	**4.5,3.7**		¶17192014

IDC Error ellipse: s-maj=125.9km s-min=13.3km az=62.0.

IDC	**II**	**10 15 50 37.7–1.9**	**4.09N**	**121.65E**	**0**	**3.6,3.4**		¶17192017

IDC Error ellipse: s-maj=291.0km s-min=27.7km az=62.0.

ISC	**II**	**10 16 06 36.2–.74**	**3.75N–.08**	**123.1E–.10**	**545**	**3.4b**	**33**	**3-119**
ISCJB	II	10 16 06 35.2–.49	3.69N–.07	123.05E–.10	545	3.4b		¶17192020
DJA	II	10 16 06 36.0–1.0	4N–8.0	123E–6.0	524–19	4.8b,4.6		
IDC	II	10 16 06 38.4–2.4	3.66N	122.95E	569–29	3.8,3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=6.5km az=152.0.
IDC Error ellipse: s-maj=47.9km s-min=10.1km az=65.0.

IDC	**II**	**11 01 24 25.9–2.2**	**4.59N**	**122.88E**	**0**	**3.8,3.6**		¶17192041

IDC Error ellipse: s-maj=331.7km s-min=26.0km az=63.0.

IDC	**II**	**11 16 58 23.8–6.3**	**3.83N**	**123.19E**	**575–98**	**3.6,2.7**		¶17192083

IDC Error ellipse: s-maj=128.3km s-min=21.0km az=69.0.

ISC	**II**	**13 08 48 11.2–.59**	**4.09N–.08**	**123.1E–.10**	**573**	**3.8b**	**25**	**4-90**
ISCJB	II	13 08 48 09.6–.52	4.05N–.07	123.0E–.10	573	3.7b		¶17192144
IDC	II	13 08 48 10.6–.94	4.04N	123.07E	563–10	4.1,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=8.8km az=174.9.
IDC Error ellipse: s-maj=20.4km s-min=7.6km az=76.0.

IDC	**II**	**15 17 06 43.9–3.2**	**4.37N**	**123.75E**	**535–32**	**3.8,3.0**		¶17192314

IDC Error ellipse: s-maj=244.7km s-min=15.6km az=63.0.

DJA	**II**	**20 03 53 51.7–2.5**	**2N–5.0**	**122E–5.0**	**23–29**	**3.9,3.9**		¶602001913

ISC	**II**	**20 11 34 53.5–.58**	**5.69N–.07**	**121.87E–.05**	**26**	**4.2b**	**35**	**2-148**
IDC	II	20 11 34 49.3–.64	5.71N	121.82E	0	4.2,4.0		¶16196344
ISCJB	II	20 11 34 51.6–.42	5.67N–.05	121.84E–.04	26	4.2b,4.0		
MAN	II	20 11 34 53	5.63N	121.97E	32	5.0b,4.0s		
NEIC	II	20 11 34 54.7–.35	5.67N	121.80E	35	4.5b,4.0s		

ISC Event type se.
IDC Error ellipse: s-maj=49.8km s-min=13.1km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=142.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=7.4km az=60.0.

IDC	**II**	**22 05 57 55.7–1.8**	**4.97N**	**123.87E**	**0**	**4.1,4.0**		¶17192679

IDC Error ellipse: s-maj=142.3km s-min=24.2km az=65.0.

IDC	**II**	**25 12 58 41.3–2.1**	**4.12N**	**124.51E**	**0**	**3.4,3.3**		¶17192837

IDC Error ellipse: s-maj=207.6km s-min=27.0km az=64.0.

IDC	**II**	**26 01 02 22.1–2.4**	**4.17N**	**123.54E**	**0**	**3.6,3.4**		¶17192872

IDC Error ellipse: s-maj=336.2km s-min=24.8km az=63.0.

IDC	**II**	**26 03 38 52.4–1.9**	**2.05N**	**124.76E**	**0**	**3.8,3.6**		¶17192878

IDC Error ellipse: s-maj=261.7km s-min=21.5km az=64.0.

IDC	**III**	**04 02 23 31.0–2.0**	**3.40N**	**122.43E**	**0**	**3.7,3.5**		¶17193218

IDC Error ellipse: s-maj=325.2km s-min=26.4km az=62.0.

IDC	**III**	**15 22 59 15.6–2.0**	**2.21N**	**124.31E**	**0**	**3.6,3.4**		¶17196284

IDC Error ellipse: s-maj=198.7km s-min=28.3km az=63.0.

ISC	**III**	**20 09 33 58.8–.77**	**2.6N–.10**	**122.1E–.20**	**559**	**3.4b**	**14**	**8-60**

ISCJB	III	20 09 33 57.5–.70	2.6N–.10	122.0E–.20	559	3.4b			¶17197433
IDC	III	20 09 33 59.3–1.4	2.57N	121.90E	560–18	3.9,3.0			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=32.9km s-min=11.8km az=160.4.								
IDC	Error ellipse: s-maj=33.6km s-min=11.3km az=67.0.								
ISC	**III**	**25 11 03 40.0–.43**	**3.65N–.05**	**124.70E–.07**	**300**	**4.1b**	**70**	**1-121**	
ISCJB	III	25 11 03 38.6–.27	3.73N–.04	124.74E–.06	300	4.0b			¶16361352
BJI	III	25 11 03 39.0	3.60N	124.70E	304	4.4b,4.3b			
NEIC	III	25 11 03 41.7–.68	3.67N	124.74E	326–8	4.2b,4.3b			
DJA	III	25 11 03 43.5–.70	3N–5.0	125E–4.0	297–9	4.9b,4.8			
IDC	III	25 11 03 44.0–3.7	3.55N	124.52E	351–41	4.3,3.7			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=8.5km s-min=4.3km az=160.0.								
NEIC	Event type se. Error ellipse: s-maj=14.4km s-min=6.4km az=52.0.								
IDC	Error ellipse: s-maj=20.3km s-min=9.6km az=76.0.								
ISC	**III**	**31 06 43 09.4–.76**	**3.3N–.10**	**124.0E–.30**	**150**	**4.0b**	**12**	**13-72**	
ISCJB	III	31 06 43 07.6–.61	3.4N–.10	124.1E–.30	150	4.0b			¶17199264
IDC	III	31 06 43 09.4–7.9	3.37N	124.09E	148–78	4.3,4.0			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=42.2km s-min=10.5km az=164.8.								
IDC	Error ellipse: s-maj=50.7km s-min=16.1km az=63.0.								
IDC	**IV**	**03 16 22 50.5–6.8**	**4.67N**	**124.07E**	**487–95**	**3.6,2.8**			
									¶17199669
IDC	Error ellipse: s-maj=139.6km s-min=20.0km az=67.0.								
IDC	**IV**	**08 22 10 30.8–20**	**5.64N**	**122.15E**	**520–293**	**4.1,3.2**			
									¶17200290
IDC	Error ellipse: s-maj=206.0km s-min=40.0km az=61.0.								
IDC	**IV**	**15 08 09 08.0–1.8**	**3.78N**	**124.26E**	**0**	**3.8,3.7**			
									¶17201106
IDC	Error ellipse: s-maj=187.8km s-min=23.6km az=64.0.								
IDC	**IV**	**16 19 00 19.0–5.2**	**4.29N**	**124.86E**	**229–67**	**3.6,3.1**			
									¶17201252
IDC	Error ellipse: s-maj=179.5km s-min=15.3km az=66.0.								
IDC	**IV**	**19 11 42 43.9–1.4**	**3.42N**	**123.52E**	**0**	**3.7,3.6**			
									¶17201495
IDC	Error ellipse: s-maj=191.2km s-min=20.0km az=63.0.								
IDC	**IV**	**22 03 39 59.5–7.4**	**3.46N**	**124.34E**	**372–86**	**3.9,3.3**			
									¶602004057
IDC	Error ellipse: s-maj=79.9km s-min=17.8km az=69.0.								
IDC	**IV**	**22 09 27 18.5–1.6**	**4.22N**	**124.31E**	**0**	**3.6,3.5b**			
									¶17201801
IDC	Error ellipse: s-maj=128.9km s-min=19.5km az=68.0.								
IDC	**IV**	**28 16 51 33.2–1.9**	**2.41N**	**124.78E**	**0**	**3.2,3.1**			
									¶17202317
IDC	Error ellipse: s-maj=209.4km s-min=25.0km az=64.0.								
IDC	**IV**	**29 13 38 56.4–1.8**	**2.73N**	**124.93E**	**0**	**3.9,3.8**			
									¶17202387
IDC	Error ellipse: s-maj=185.9km s-min=24.8km az=63.0.								
IDC	**V**	**02 14 30 35.0–2.0**	**2.62N**	**124.77E**	**0**	**3.6,3.5**			
									¶17202615
IDC	Error ellipse: s-maj=207.3km s-min=26.6km az=64.0.								
ISC	**V**	**07 01 41 27.9–.48**	**3.76N–.07**	**124.20E–.10**	**339**	**3.7b**	**34**	**4-124**	
ISCJB	V	07 01 41 26.7–.41	3.84N–.06	124.2E–.10	339	3.6b			¶17202964
IDC	V	07 01 41 30.2–2.3	3.79N	124.29E	361–24	4.1,3.5			
DJA	V	07 01 41 32.0–.70	3N–9.0	124E–6.0	368–10	5.2b,4.6b			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**V**	**09 23 04 08.3–.81**	**4.85N–.10**	**124.9E–.20**	**200**	**3.7b**	**13**	**2-121**	
ISCJB	V	09 23 04 06.2–.79	4.75N–.08	124.8E–.20	200	3.6b			¶17203152
IDC	V	09 23 04 09.7–1.3	4.91N	125.05E	212–12	3.9,3.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=23.2km s-min=10.6km az=175.6.								
IDC	Error ellipse: s-maj=34.0km s-min=10.9km az=75.0.								
IDC	**V**	**11 16 05 20.6–8.2**	**2.02N**	**124.79E**	**0**	**4.0,3.8**			
									¶17203409
IDC	Error ellipse: s-maj=139.1km s-min=112.6km az=116.0.								
IDC	**V**	**12 17 39 08.1–1.6**	**2.30N**	**124.78E**	**0**	**4.2,4.0**			
									¶17203489
IDC	Error ellipse: s-maj=111.2km s-min=21.4km az=66.0.								
IDC	**V**	**13 13 07 33.6–36**	**5.93N**	**122.98E**	**0**	**4.2,4.0**			
									¶17203546
IDC	Error ellipse: s-maj=610.8km s-min=291.6km az=152.0.								
IDC	**V**	**13 16 05 56.2–18**	**3.87N**	**124.89E**	**290–203**	**3.8,3.2**			
									¶17203558
IDC	Error ellipse: s-maj=82.0km s-min=16.2km az=54.0.								
IDC	**V**	**18 21 22 45.8–1.9**	**4.83N**	**124.38E**	**0**	**4.1,3.9**			
									¶17203912
IDC	Error ellipse: s-maj=281.6km s-min=19.6km az=64.0.								
IDC	**V**	**20 08 44 19.1–2.5**	**4.97N**	**123.91E**	**0**	**4.2,4.0b**			
									¶17204024
IDC	Error ellipse: s-maj=306.3km s-min=27.8km az=63.0.								
IDC	**VI**	**06 04 47 10.3–2.1**	**3.30N**	**124.43E**	**0**	**3.7,3.5**			
									¶17205385
IDC	Error ellipse: s-maj=222.3km s-min=27.0km az=64.0.								
IDC	**VI**	**11 13 17 48.2–1.9**	**5.85N**	**122.20E**	**0**	**3.8,3.6**			
									¶17205773
IDC	Error ellipse: s-maj=225.5km s-min=26.0km az=62.0.								
IDC	**VI**	**19 15 52 33.3–1.9**	**2.21N**	**123.29E**	**0**	**3.9,3.7b**			
									¶17206533
IDC	Error ellipse: s-maj=310.1km s-min=26.0km az=62.0.								
IDC	**VI**	**20 17 04 04.8–2.1**	**4.20N**	**124.38E**	**0**	**3.6,3.4**			
									¶17206611
IDC	Error ellipse: s-maj=297.7km s-min=21.2km az=64.0.								
IDC	**VI**	**22 09 51 25.1–1.6**	**2.17N**	**124.82E**	**0**	**3.8,3.6**			
									¶17206742
IDC	Error ellipse: s-maj=121.0km s-min=22.6km az=65.0.								
IDC	**VI**	**22 11 41 51.1–26**	**3.98N**	**124.08E**	**650–449**	**3.7,2.7**			
									¶17206752
IDC	Error ellipse: s-maj=187.8km s-min=68.8km az=36.0.								
ISC	**VI**	**23 06 36 08.6–.77**	**4.5N–.20**	**122.9E–.30**	**582**	**3.8b**	**13**	**19-71**	
ISCJB	VI	23 06 36 07.1–.73	4.5N–.20	122.8E–.30	582	3.7b			¶17206802
IDC	VI	23 06 36 08.8–1.7	4.47N	122.85E	584–21	4.1,3.1			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=41.4km s-min=12.6km az=149.2.								
IDC	Error ellipse: s-maj=42.1km s-min=10.7km az=61.0.								
ISC	**VI**	**27 19 15 55.2–1.1**	**4.59N–.09**	**124.7E–.30**	**35**	**3.6b**	**7**	**3-56**	
IDC	VI	27 19 15 50.2–1.4	4.48N	124.45E	0	4.0L,3.8			¶17207093
ISCJB	VI	27 19 15 52.8–1.0	4.60N–.07	124.7E–.20	33	3.5b,2.9s			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**VI**	**27 19 32 49.0–.93**	**4.65N–.08**	**125.0E–.30**	**50**	**3.5b,3.4s**	**9**	**2-72**	
IDC	VI	27 19 32 42.6–.88	4.62N	124.87E	0	4.2L,3.8			¶17207095
ISCJB	VI	27 19 32 47.2–.69	4.63N–.06	124.9E–.20	50	3.6b,3.3s			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**VI**	**28 06 57 33.4–2.4**	**2.23N**	**124.40E**	**306–23**	**4.3,3.7**			
									¶17207121
IDC	Error ellipse: s-maj=31.4km s-min=9.8km az=72.0.								
ISC	**VI**	**28 17 44 06.7–.35**	**2.58N–.04**	**123.60E–.05**	**400**	**4.3b**	**107**	**2-125**	
ISCJB	VI	28 17 44 04.9–.23	2.70N–.03	123.63E–.04	400	4.3b			¶16685967
NEIC	VI	28 17 44 05.4–.54	2.68N	123.59E	390–7	4.6b			
IDC	VI	28 17 44 06.7–.97	2.64N	123.50E	412–10	4.3,3.6			
DJA	VI	28 17 44 07.8–.40	3N–4.0	124E–3.0	367–4	4.7b,4.5b			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								

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IDC	**I**	**02 10 39 09.5–1.6**	**3.02N**	**127.98E**	**0**	**3.4,3.3**			
									¶17189213
IDC	Error ellipse: s-maj=93.5km s-min=23.4km az=63.0.								
IDC	**I**	**03 15 38 23.5–3.8**	**3.15N**	**127.97E**	**207–33**	**3.9,3.6**			
									¶17189334
IDC	Error ellipse: s-maj=48.4km s-min=16.7km az=94.0.								
IDC	**I**	**08 01 30 43.0–1.0**	**4.29N**	**125.88E**	**0**	**3.9,3.7**			
									¶17189665
IDC	Error ellipse: s-maj=144.0km s-min=16.2km az=68.0.								
IDC	**I**	**08 07 51 44.0–1.4**	**3.96N**	**126.72E**	**0**	**3.7,3.5**			
									¶17189681
IDC	Error ellipse: s-maj=134.4km s-min=20.7km az=69.0.								
IDC	**I**	**08 22 19 52.0–1.5**	**4.88N**	**126.46E**	**0**	**3.8,3.7**			
									¶17189726
IDC	Error ellipse: s-maj=140.3km s-min=24.6km az=68.0.								
ISC	**I**	**12 01 45 26.2–.24**	**3.60N–.03**	**126.67E–.05**	**53**	**5.2b,4.3s**	**496**	**1-169**	
BJI	I	12 01 45 18.7	3.20N	126.76E	34	5.2b,5.2b			¶15919546
IDC	I	12 01 45 22.1–2.5	3.62N	126.61E	20–15	5.0L,4.9			
MOS	I	12 01 45 22.0–1.0	3.66N	126.69E	33	5.4b,4.1s			
ISCJB	I	12 01 45 24.5–.12	3.63N–.02	126.74E–.03	53	5.1b,4.3s			
GCMT	I	12 01 45 25.6–.30	3.80N	126.66E	15	5.3W,4.3s			
KLM	I	12 01 45 25.1	3.64N	127.06E	42	6.1s,5.2b			
NEIC	I	12 01 45 25.6–.70	3.56N	126.53E	47–6	5.3b,5.2b			
DJA	I	12 01 45 26.5–.40	4N–4.0	127E–4.0	57–6	5.5b,5.2			
ISC	Event type se.								
ISCJB	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c45; s64,c86;Duration: 1s‡1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.22±.02 $M_{\theta\theta}$0.17±.01; $M_{\phi\phi}$-0.38±.01; $M_{r\theta}$0.49±.05; $M_{\theta\phi}$0.02±.01; $M_{\phi r}$0.74±.04; Best double couple: NP1:ϕ_s31.00000°,δ83.00000°,λ106.00000°. NP2:ϕ_s144.00000°,δ17.00000°,λ24.00000°. Principal axes: T 0.9510,Plg50.0000°,Azm318.0000°; N 0.0020,Plg15.0000°,Azm209.0000° ; P -0.9530,Plg36.0000°,Azm108.0000° $M_0$0.95200×10^{17}								
NEIC	Event type se.								
IDC	**I**	**13 01 33 26.9–4.1**	**3.73N**	**127.89E**	**119–42**	**4.2,3.9**			
									¶17190027
IDC	Error ellipse: s-maj=68.7km s-min=23.9km az=68.0.								
IDC	**I**	**14 15 19 56.6–1.6**	**3.90N**	**125.12E**	**0**	**4.0,3.8**			
									¶17190186
IDC	Error ellipse: s-maj=110.0km s-min=22.7km az=66.0.								
ISC	**I**	**18 03 53 10.8–.55**	**3.57N–.06**	**127.07E–.07**	**48**	**4.4b**	**45**	**2-123**	
IDC	I	18 03 53 03.9–.62	3.48N	126.72E	0	4.4,4.3			¶16016421
ISCJB	I	18 03 53 08.8–.36	3.61N–.03	127.10E–.05	48	4.3b,4.3			
DJA	I	18 03 53 10.0–.70	3N–5.0	127E–4.0	10	5.3b,4.7			
NEIC	I	18 03 53 13.4–1.1	3.45N	126.98E	79–10	4.5b,4.7			
ISC	Event type se.								
IDC	Error ellipse: s-maj=37.4km s-min=14.2km az=69.0.								
ISCJB	Event type se. Error ellipse: s-maj=6.9km s-min=4.4km az=153.0.								
NEIC	Event type se. Error ellipse: s-maj=16.8km s-min=8.7km az=76.0.								
IDC	**I**	**18 08 25 52.5–1.5**	**3.98N**	**126.67E**	**0**	**4.3s,4.3**			
									¶17190468
IDC	Error ellipse: s-maj=153.8km s-min=18.5km az=66.0.								
IDC	**I**	**18 11 46 40.8–2.1**	**3.95N**	**126.83E**	**0**	**3.7,3.5**			
									¶17190479
IDC	Error ellipse: s-maj=162.1km s-min=25.3km az=66.0.								
IDC	**I**	**18 13 11 54.9–2.0**	**4.10N**	**126.84E**	**0**	**4.2,4.1**			
									¶17190483
IDC	Error ellipse: s-maj=164.0km s-min=25.3km az=65.0.								
IDC	**I**	**20 11 56 16.8–1.4**	**3.33N**	**127.07E**	**0**	**3.8,3.7**			
									¶17190619
IDC	Error ellipse: s-maj=90.0km s-min=22.3km az=63.0.								
IDC	**I**	**21 09 52 10.8–1.8**	**3.70N**	**126.62E**	**0**	**3.9,3.9**			
									¶17190671
IDC	Error ellipse: s-maj=181.2km s-min=20.5km az=65.0.								
IDC	**I**	**23 13 54 28.6–19**	**3.82N**	**127.10E**	**0**	**3.8,3.6**			
									¶17190809
IDC	Error ellipse: s-maj=329.1km s-min=189.0km az=157.0.								
ISC	**I**	**24 06 22 53.8–.82**	**3.81N–.09**	**126.35E–.09**	**45**	**4.0b**	**20**	**3-92**	
IDC	I	24 06 22 47.7–.87	3.99N	126.55E	0	4.1,3.9			¶16135673
ISCJB	I	24 06 22 52.4–.59	3.81N–.06	126.19E–.07	45	4.1b,3.9			
NEIC	I	24 06 22 53.2–.73	3.86N	126.25E	35	4.6b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=74.4km s-min=13.6km az=68.0.								
ISCJB	Event type se. Error ellipse: s-maj=10.4km s-min=8.2km az=155.6.								
NEIC	Event type se. Error ellipse: s-maj=20.5km s-min=11.0km az=68.0.								
IDC	**I**	**24 14 22 59.7–2.3**	**3.87N**	**127.63E**	**0**	**3.5,3.3**			
									¶17190899
IDC	Error ellipse: s-maj=179.6km s-min=26.2km az=67.0.								
IDC	**I**	**26 10 22 31.8–1.1**	**3.09N**	**127.97E**	**0**	**3.8,3.7**			
									¶17191030
IDC	Error ellipse: s-maj=92.9km s-min=17.6km az=67.0.								
IDC	**I**	**26 18 01 54.6–1.6**	**3.02N**	**127.94E**	**0**	**3.7,3.7s**			
									¶17191051
IDC	Error ellipse: s-maj=102.1km s-min=23.6km az=61.0.								
IDC	**I**	**27 19 40 28.0–5.2**	**4.43N**	**126.40E**	**96–55**	**4.0,3.8**			
									¶17191142
IDC	Error ellipse: s-maj=86.7km s-min=22.6km az=69.0.								
IDC	**I**	**27 22 52 13.1–1.9**	**3.38N**	**126.30E**	**0**	**3.9,3.7**			
									¶17191155
IDC	Error ellipse: s-maj=103.8km s-min=26.8km az=67.0.								
IDC	**I**	**28 06 16 55.5–.88**	**3.65N**	**125.99E**	**0**	**4.0,3.8b**			
									¶17191178
IDC	Error ellipse: s-maj=74.7km s-min=15.2km az=73.0.								
IDC	**I**	**28 12 32 20.1–1.2**	**3.61N**	**127.54E**	**0**	**3.6,3.5**			
									¶17191193
IDC	Error ellipse: s-maj=95.1km s-min=22.7km az=68.0.								
ISC	**I**	**30 07 05 49.9–.89**	**3.9N–.20**	**126.4E–.40**	**45**	**3.6b**	**9**	**22-85**	
IDC	I	30 07 05 43.7–.82	3.97N	126.49E	0	3.8,3.7			¶17191296
ISCJB	I	30 07 05 48.1–.72	3.9N–.10	126.3E–.40	45	3.6b,2.7s			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**II**	**01 02 48 14.1–1.1**	**3.62N**	**125.38E**	**0**	**3.7,3.5**			
									¶17191452
IDC	Error ellipse: s-maj=82.5km s-min=21.2km az=68.0.								
IDC	**II**	**02 07 51 37.2–2.6**	**3.86N**	**127.10E**	**0**	**3.7,3.5**			
									¶17191530
IDC	Error ellipse: s-maj=223.2km s-min=26.9km az=66.0.								
IDC	**II**	**04 03 34 19.7–2.2**	**4.23N**	**126.83E**	**0**	**3.8,3.6**			
									¶17191631
IDC	Error ellipse: s-maj=174.9km s-min=26.9km az=66.0.								
IDC	**II**	**04 12 27 34.4–3.1**	**2.38N**	**125.39E**	**0**	**3.6,3.3**			
									¶17191649
IDC	Error ellipse: s-maj=166.6km s-min=31.0km az=85.0.								
IDC	**II**	**06 07 30 18.3–1.9**	**4.32N**	**126.77E**	**0**	**4.0,3.8b**			
									¶17191783
IDC	Error ellipse: s-maj=118.4km s-min=23.1km az=69.0.								
IDC	**II**	**06 17 45 25.1–1.2**	**3.45N**	**126.29E**	**0**	**3.6,3.5**			
									¶17191810
IDC	Error ellipse: s-maj=102.2km s-min=18.5km az=71.0.								
IDC	**II**	**06 17 50 00.0–2.0**	**4.11N**	**126.57E**	**0**	**3.7,3.5**			
									¶17191812
IDC	Error ellipse: s-maj=122.1km s-min=24.1km az=69.0.								
IDC	**II**	**06 17 57 57.4–1.7**	**3.85N**	**126.90E**	**0**	**3.6,3.4**			
									¶17191813
IDC	Error ellipse: s-maj=118.7km s-min=20.0km az=70.0.								
ISC	**II**	**06 20 21 01.1–.82**	**3.87N–.07**	**126.45E–.07**	**100**	**3.9b**	**21**	**3-85**	
ISCJB	II	06 20 20 59.6–.51	3.91N–.04	126.43E–.05	100	3.8b			¶17191825
IDC	II	06 20 21 01.3–2.3	3.91N	126.37E	104–23	4.0,3.7			
DJA	II	06 20 21 08.7–3.7	3N–23	126E–8.0	36–72	5.1b,5.0b			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**II**	**08 06 39 26.5–.88**	**3.09N–.08**	**127.90E–.08**	**100**	**3.8b**	**23**	**1-83**	
IDC	II	08 06 39 14.5–1.2	3.05N	127.87E	0	4.1,3.9b			¶17191889
ISCJB	II	08 06 39 25.1–.75	3.13N–.06	127.92E–.05	100	3.8b,3.9b			
DJA	II	08 06 39 28.3–.80	3N–7.0	128E–4.0	104–8	4.8b,4.5			

ISC Event type ke.
ISCJB Event type ke.
IDC II 09 00 20 35.2–1.9 2.41N 125.36E 0 3.9,3.7
¶17191921
IDC Error ellipse: s-maj=140.4km s-min=23.1km az=68.0.
IDC II 12 11 50 54.9–1.2 3.82N 127.18E 0 3.9,3.8
¶17192114
IDC Error ellipse: s-maj=66.8km s-min=16.4km az=69.0.
ISC II 13 09 05 35.5–.68 4.83N–.05 127.26E–.09 108 4.1b 37 2-90
IDC II 13 09 05 31.4–3.6 4.83N 127.64E 72–32 4.1,3.9 **¶16160035**
ISCJB II 13 09 05 34.1–.45 4.84N–.03 127.32E–.06 108 4.1b,3.9
NEIC II 13 09 05 35.0–1.5 4.84N 127.64E 107–13 4.6b,3.9
DJA II 13 09 05 34.2–.90 5N–6.0 127E–5.0 10 5.0b,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 13 09 41 26.3–1.6 3.62N 126.63E 0 3.7,3.6
¶17192146
IDC Error ellipse: s-maj=107.2km s-min=23.1km az=69.0.
ISC II 13 12 10 06.8–.44 4.83N–.04 127.38E–.08 108 4.3b 104 2-123
BJI II 13 12 09 58.1 4.37N 128.10E 102 5.3b,4.5b **¶16300896**
IDC II 13 12 10 03.9–2.2 4.87N 127.59E 83–19 4.2,4.0
ISCJB II 13 12 10 05.3–.25 4.83N–.03 127.33E–.05 108 4.4b,4.0
NEIC II 13 12 10 06.4–.85 4.80N 127.48E 104–8 4.5b,4.0
MAN II 13 12 10 07 5.44N 127.43E 0 4.8b,3.7L
DJA II 13 12 10 09.8–.80 5N–4.0 127E–10 80–10 5.0b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 14 18 07 44.8–1.8 4.16N 127.10E 0 3.7,3.5
¶17192259
IDC Error ellipse: s-maj=102.7km s-min=20.5km az=60.0.
IDC II 15 16 28 17.8–1.0 4.17N 126.59E 0 3.8,3.7
¶17192311
IDC Error ellipse: s-maj=78.7km s-min=15.4km az=65.0.
IDC II 15 21 29 48.7–1.4 3.61N 126.42E 0 3.7,3.6
¶17192325
IDC Error ellipse: s-maj=213.7km s-min=18.7km az=68.0.
ISC II 16 08 12 45.2–.45 4.41N–.03 126.49E–.05 87–3 4.7b 272 1-141
BJI II 16 08 12 40.6 4.17N 126.58E 85 5.1b,4.7b **¶16026548**
MOS II 16 08 12 40.6–.97 4.45N 126.26E 56 5.0b,4.7b
ISCJB II 16 08 12 43.2–.38 4.44N–.02 126.55E–.03 84–3 4.6b,4.7b
IDC II 16 08 12 44.6–.67 4.38N 126.19E 79–5 4.6,4.4
NEIC II 16 08 12 44.9–.85 4.54N 126.57E 83–8 4.7b,4.4
KLM II 16 08 12 45.5 4.61N 126.84E 104 6.1s,4.8b
DJA II 16 08 12 45.0–.50 4N–4.0 127E–3.0 75–4 5.3b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 16 17 01 57.6–.53 3.86N–.07 127.1E–.10 36 4.2b,3.4s 36 2-123
IDC II 16 17 01 52.2–.68 3.71N 126.73E 0 4.2,4.1b **¶16339750**
DJA II 16 17 01 54.6–4.6 4N–12 127E–14 15–29 5.6b,5.1
ISCJB II 16 17 01 55.6–.44 3.86N–.05 127.12E–.10 36 4.1b,3.6s
NEIC II 16 17 01 58.0–1.8 3.79N 127.02E 42–17 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=63.2km s-min=13.5km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=6.0km az=164.8.
NEIC Event type se. Error ellipse: s-maj=36.1km s-min=8.9km az=71.0.
ISC II 19 03 12 49.0–.46 3.29N–.03 126.59E–.05 67–3 4.9b 457 1-167
IDC II 19 03 12 42.6–2.6 3.17N 126.40E 15–15 4.7,4.6 **¶16032252**
BJI II 19 03 12 43.6 2.64N 126.52E 76 5.1b,4.8b
ISCJB II 19 03 12 47.3–.42 3.27N–.02 126.62E–.03 67–3 4.8b,4.8b
MOS II 19 03 12 47.6–1.2 3.26N 126.51E 69 5.1b,4.8b
KLM II 19 03 12 49.9 3.11N 126.69E 82 5.9s,4.9b
DJA II 19 03 12 49.5–1.3 3N–2.0 127E–2.0 32–14 5.2,5.2b
NEIC II 19 03 12 49.4–.65 3.24N 126.54E 73–6 4.9b,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=16.4km s-min=8.2km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=2.9km az=161.0.
MOS Error ellipse: s-maj=10.0km s-min=4.7km az=119.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.0km az=61.0.
ISC II 21 01 54 37.7–.39 3.04N–.04 127.94E–.06 100 4.5b 106 1-124
BJI II 21 01 54 34.7 2.89N 128.20E 106 5.0b,4.6b **¶16155381**
ISCJB II 21 01 54 36.0–.25 3.10N–.03 127.97E–.04 100 4.4b,4.6b
IDC II 21 01 54 37.4–.77 3.06N 128.03E 106–7 4.3,4.1
NEIC II 21 01 54 38.8–.66 3.02N 127.86E 117–7 4.6b,4.1
DJA II 21 01 54 39.8–.50 3N–4.0 128E–4.0 60–15 5.2b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 23 23 38 06.0–2.1 4.75N 126.61E 0 3.7,3.5b
¶17192763
IDC Error ellipse: s-maj=169.5km s-min=24.8km az=66.0.
MAN II 24 02 12 42 4.42N 126.50E 125 5.4b,4.7s
¶601668611
ISC II 25 16 34 40.9–.93 4.8N–.10 126.9E–.30 76 3.6b 8 2-84
IDC II 25 16 34 31.5–1.3 4.83N 126.94E 0 4.0,3.8 **¶17192848**
MAN II 25 16 34 43 5.34N 127.29E 0 4.8b,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=47.7km s-min=22.4km az=70.0.
IDC II 25 20 16 39.7–2.2 4.41N 126.88E 0 3.5,3.3
¶17192862
IDC Error ellipse: s-maj=166.8km s-min=26.8km az=66.0.
IDC II 26 12 38 18.3–2.2 2.56N 125.76E 0 3.4,3.2
¶17192906
IDC Error ellipse: s-maj=194.6km s-min=28.5km az=65.0.
ISC II 26 14 57 56.9–.47 4.49N–.04 126.25E–.06 85 4.0b 64 1-122
MAN II 26 14 57 50 4.17N 126.41E 79 5.2b,4.4s **¶16398992**
ISCJB II 26 14 57 55.6–.28 4.54N–.02 126.29E–.05 85 4.0b,4.4s
NEIC II 26 14 57 57.0–.86 4.51N 126.17E 89–9 4.0b,4.4s
IDC II 26 14 57 57.8–1.7 4.53N 126.13E 94–15 4.1,3.9
DJA II 26 14 57 59.6–.90 4N–7.0 126E–4.0 87–10 5.5b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 27 01 57 48.8–1.5 3.65N 127.30E 0 3.7,3.6
¶17192929
IDC Error ellipse: s-maj=141.4km s-min=22.0km az=69.0.
IDC II 27 07 34 55.4–1.7 4.03N 126.73E 0 3.6,3.4
¶17192938
IDC Error ellipse: s-maj=153.6km s-min=21.2km az=66.0.
IDC II 28 21 13 12.8–2.0 2.20N 125.32E 0 3.5,3.3
¶17193020
IDC Error ellipse: s-maj=193.1km s-min=25.1km az=65.0.
ISC III 01 17 13 59.3–.51 3.84N–.05 126.79E–.07 36 4.3b,3.3s 55 3-92
IDC III 01 17 13 53.1–.77 3.75N 126.42E 0 4.1,4.0b **¶16400353**
ISCJB III 01 17 13 56.6–.35 3.92N–.04 126.93E–.06 36 4.3b,3.2s
BJI III 01 17 14 01.8 3.80N 126.70E 79 4.9b,4.7s
NEIC III 01 17 14 02.9–.99 3.78N 126.72E 81–10 4.3b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=50.4km s-min=14.0km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.8km az=152.4.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.6km az=51.0.
IDC III 02 21 43 01.6–1.6 3.44N 126.73E 0 3.5,3.4
¶17193160
IDC Error ellipse: s-maj=158.6km s-min=21.8km az=69.0.
IDC III 03 01 22 54.2–2.1 3.00N 127.71E 0 3.7,3.5
¶17193166
IDC Error ellipse: s-maj=183.5km s-min=23.2km az=66.0.
ISC III 03 12 52 09.8–.30 4.95N–.02 126.66E–.04 87–2 5.5b 700 2-172
BJI III 03 12 52 05.5 4.61N 126.41E 82 5.4b,5.3b **¶16194002**
MOS III 03 12 52 06.0–.94 4.97N 126.50E 65 5.7b,4.2s
MAN III 03 12 52 07 4.57N 126.69E 60 6.0b,5.6s
ISCJB III 03 12 52 08.9–.29 4.94N–.01 126.61E–.02 93–2 5.4b,5.6s
IDC III 03 12 52 08.6–.96 4.95N 126.53E 74–7 5.2,5.0
NEIC III 03 12 52 10.3–.55 4.95N 126.57E 90–5 5.4b,5.0
GCMT III 03 12 52 10.3–.10 4.88N 126.66E 63–1 5.4W,5.0
DJA III 03 12 52 10.5–.30 5N–2.0 127E–2.0 81–3 6.0,5.8b
ISC Event type fe.
MAN Event type fe. INTENSITY III - COMPOSTELA VALLEY; MALITA DAVAO DEL SUR; INTENSITY II - DAVAO CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [III PIVS] at Compostela and Malita; [II PIVS] at Davao; [I PIVS] at General Santos.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s104,c180; s118,c216;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.64±.03 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$-0.69±.03; $M_{r\theta}$0.24±.02; $M_{\theta\phi}$-0.78±.02; $M_{\phi r}$1.35±.02; Best double couple: NP1:ϕ_s9.00000°,δ76.00000°,λ69.00000°. NP2:ϕ_s246.00000°,δ25.00000°,λ144.00000°. Principal axes: T 1.5150,Plg55.0000°,Azm254.0000°; N 0.3430,Plg20.0000°,Azm15.0000°; P -1.8580,Plg28.0000°,Azm116.0000° M_o1.68700×10^{17}
IDC III 04 22 55 07.8–2.1 4.06N 126.44E 0 3.7,3.5
¶17193248
IDC Error ellipse: s-maj=123.5km s-min=27.9km az=69.0.
ISC III 05 16 55 17.9–1.2 5.0N–.20 127.0E–.30 71 3.7b 8 3-60
IDC III 05 16 55 09.3–1.2 4.98N 126.63E 0 3.8,3.6 **¶17193297**
ISCJB III 05 16 55 15.8–.99 5.1N–.20 127.1E–.30 71 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 05 22 41 10.5–1.3 3.86N 126.68E 0 3.6,3.5b
¶17193310
IDC Error ellipse: s-maj=135.8km s-min=20.3km az=68.0.
IDC III 06 12 34 43.7–2.8 4.24N 126.85E 0 3.8s,3.8
¶17193351
IDC Error ellipse: s-maj=241.9km s-min=28.3km az=66.0.
IDC III 06 16 30 56.3–1.2 2.14N 125.24E 0 3.7s,3.7
¶17193362
IDC Error ellipse: s-maj=138.0km s-min=18.8km az=67.0.
ISC III 07 09 46 55.1–.36 3.92N–.04 126.10E–.05 150 4.5b 146 1-122
BJI III 07 09 46 52.5 4.10N 126.20E 127 4.8b,4.7b **¶16269114**
MOS III 07 09 46 53.2–.98 3.94N 125.95E 149 4.8b,4.7b
ISCJB III 07 09 46 53.4–.23 3.94N–.02 126.08E–.04 150 4.5b,4.7b
IDC III 07 09 46 54.6–1.3 3.91N 125.91E 146–11 4.6,4.2
NEIC III 07 09 46 55.5–.69 3.95N 126.13E 155–7 4.6b,4.2
DJA III 07 09 46 56.8–.50 4N–4.0 126E–3.0 78–5 5.8,5.5b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
MAN III 09 14 52 07 4.77N 126.46E 47 5.9b,5.5s
¶601668696
IDC III 12 20 43 17.8–3.2 3.41N 127.69E 0 3.9,3.6b
¶17194598
IDC Error ellipse: s-maj=187.7km s-min=30.2km az=89.0.
IDC III 14 23 33 33.5–2.1 3.92N 126.81E 0 3.6,3.5
¶17195292
IDC Error ellipse: s-maj=168.3km s-min=25.6km az=66.0.
ISC III 15 09 58 48.9–1.0 4.28N–.09 125.4E–.20 100 3.9b 9 3-56
IDC III 15 09 58 49.8–5.0 4.35N 126.63E 109–60 4.1,3.9 **¶17196113**
ISC Event type ke.
IDC Error ellipse: s-maj=137.1km s-min=17.7km az=68.0.
ISC III 16 11 48 38.2–.50 4.91N–.04 127.51E–.08 108 4.4b 62 2-109
ISCJB III 16 11 48 36.3–.35 4.93N–.03 127.55E–.06 108 4.4b **¶16453156**
IDC III 16 11 48 41.9–1.4 4.86N 127.44E 146–12 4.5,4.1
NEIC III 16 11 48 41.6–.92 4.92N 127.50E 143–8 4.6b,4.1
DJA III 16 11 48 47.6–.90 4N–6.0 127E–5.0 68–16 5.0b,4.7
MAN III 16 11 48 58 5.93N 126.36E 64 4.8b,3.7L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.1km az=179.8.
IDC Error ellipse: s-maj=23.1km s-min=9.0km az=70.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=4.9km az=77.0.
IDC III 19 08 28 15.4–2.8 4.77N 126.45E 0 3.4,3.2
¶17197161
IDC Error ellipse: s-maj=256.5km s-min=25.8km az=66.0.
IDC III 20 19 38 17.5–2.1 4.52N 127.18E 0 3.7s,3.6
¶17197540
IDC Error ellipse: s-maj=188.4km s-min=20.8km az=67.0.
IDC III 23 00 50 05.7–7.9 3.02N 127.11E 0 4.2,4.0
¶17198102
IDC Error ellipse: s-maj=203.2km s-min=124.1km az=75.0.
ISC III 24 04 59 19.0–.46 3.24N–.05 127.90E–.06 50 4.4b,3.2s 62 2-124
IDC III 24 04 59 17.4–4.5 3.20N 127.92E 35–38 4.3,4.2 **¶16352107**
ISCJB III 24 04 59 17.5–.32 3.28N–.03 127.91E–.04 50 4.3b,3.3s
DJA III 24 04 59 18.4–1.0 4N–10 128E–6.0 108–16 5.3b,5.1
NEIC III 24 04 59 19.8–1.0 3.21N 127.94E 59–10 4.4b,5.1
MAN III 24 05 00 00 5.73N 125.87E 74 4.9b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=11.3km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=2.1.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.1km az=71.0.
ISC III 25 01 15 05.0–.31 4.40N–.03 125.23E–.04 252–2 4.9b 605 1-170
MOS III 25 01 15 04.0–.88 4.42N 125.17E 257 4.9b **¶16358679**
BJI III 25 01 15 04.5 4.32N 125.37E 271 4.8b,4.7b
ISCJB III 25 01 15 04.8–.24 4.42N–.02 125.32E–.02 263–2 4.8b,4.7b
NEIC III 25 01 15 04.4–.14 4.42N 125.21E 242 5.0b,4.7b
IDC III 25 01 15 04.8–.42 4.39N 125.15E 246–3 5.0,4.4
DJA III 25 01 15 06.6–.30 4N–3.0 125E–2.0 261–3 5.4,5.4b
KLM III 25 01 15 06.3 4.36N 125.38E 261 5.9s,5.2b
MAN III 25 01 15 07 4.44N 125.33E 225 5.5b,4.9s
ISC Event type se.
MOS Error ellipse: s-maj=9.6km s-min=4.8km az=119.4.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=173.5.
NEIC Event type se. Error ellipse: s-maj=4.8km s-min=3.4km az=78.0.
IDC Error ellipse: s-maj=8.0km s-min=4.5km az=78.0.
ISC III 26 13 40 24.7–.63 3.25N–.06 126.90E–.08 44 4.0b 28 1-92
IDC III 26 13 40 18.4–.74 3.03N 126.65E 0 4.0,3.9b **¶16481019**
NEIC III 26 13 40 22.9–6.3 2.95N 126.50E 33–48 4.5b,3.9b
DJA III 26 13 40 22.5–.60 3N–5.0 127E–4.0 10 5.0b,4.6b
ISCJB III 26 13 40 23.0–.46 3.23N–.05 126.97E–.06 44 3.9b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 27 01 25 44.8–3.3 4.42N 126.21E 0 3.7,3.5
¶17198708
IDC Error ellipse: s-maj=332.0km s-min=27.2km az=65.0.
ISC III 28 01 03 12.7–.41 4.18N–.03 126.10E–.06 129–3 4.4b 112 1-146
MAN III 28 01 03 09 4.21N 125.93E 42 5.0b,4.0L **¶16364029**
BJI III 28 01 03 11.7 4.43N 126.50E 123 5.0b,4.6b
ISCJB III 28 01 03 11.7–.33 4.22N–.02 126.22E–.05 133–3 4.2b,4.6b
IDC III 28 01 03 12.2–.57 4.11N 125.95E 130–4 4.3,4.1
NEIC III 28 01 03 13.4–.74 4.22N 126.15E 138–7 4.6b,4.1
DJA III 28 01 03 17.7–.50 4N–5.0 126E–4.0 84–6 5.7b,5.3
ISC Event type fe.
MAN Event type fe. INTENSITY II - GENERAL SANTOS CITY.
ISCJB Event type fe.
NEIC Event type fe. Felt [II PIVS] at General Santos, Philippines.
ISC III 28 11 11 24.3–.47 3.05N–.06 126.91E–.08 44 4.2b,3.4s 51 2-123
IDC III 28 11 11 17.8–.55 3.00N 126.80E 0 4.3,4.2 **¶16475504**
ISCJB III 28 11 11 22.5–.34 3.07N–.03 126.99E–.07 44 4.2b,3.4s
NEIC III 28 11 11 26.3–.78 3.01N 126.92E 66–7 4.3b,3.4s
DJA III 28 11 11 27.9–.60 3N–5.0 127E–5.0 10 5.4b,5.1b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC	**III**	**28 11 16 54.0–.74**	**3.28N–.08**	**127.03E–.10**	**48**	**4.5b**	**30**	**2-123**
IDC	III	28 11 16 46.0–.87	3.54N	127.67E	0	4.5,4.4		**¶17198939**
NEIC	III	28 11 16 53.0–2.6	3.34N	127.26E	46–20	4.5b,4.4		
ISCJB	III	28 11 16 52.8–.68	3.14N–.06	126.98E–.08	48	4.4b,4.4		
DJA	III	28 11 16 53.3–.80	3N–7.0	127E–6.0	10	5.2b,4.8b		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**III**	**28 14 42 01.3–.49**	**3.16N–.06**	**126.91E–.09**	**44**	**4.4b,3.8s**	**64**	**1-123**
DJA	III	28 14 41 53.1–5.3	4N–40	127E–28	64–50	5.0b,4.7b		**¶16392123**
IDC	III	28 14 41 55.2–.63	3.07N	126.78E	0	4.3,4.3b		
ISCJB	III	28 14 41 59.4–.30	3.16N–.04	126.93E–.06	44	4.4b,3.8s		
BJI	III	28 14 42 00.7	2.72N	126.80E	81	4.9b,4.5b		
NEIC	III	28 14 42 03.2–1.2	3.09N	126.88E	68–12	4.4b,4.5b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=41.5km s-min=12.9km az=69.0.							
ISCJB	Event type se. Error ellipse: s-maj=9.0km s-min=4.4km az=160.2.							
NEIC	Event type se. Error ellipse: s-maj=15.9km s-min=7.2km az=59.0.							
IDC	**III**	**28 17 55 28.6–2.4**	**4.06N**	**127.89E**	**0**	**3.6,3.4**		
								¶17198979
IDC	Error ellipse: s-maj=198.7km s-min=24.3km az=66.0.							
ISC	**IV**	**04 10 24 28.9–.59**	**4.18N–.04**	**125.71E–.09**	**100**	**3.9b**	**31**	**1-84**
MAN	IV	04 10 24 26	4.34N	125.87E	96	4.7b,3.5L		**¶17199758**
ISCJB	IV	04 10 24 27.1–.46	4.16N–.03	125.59E–.09	100	4.0b,3.5L		
IDC	IV	04 10 24 27.8–2.2	4.21N	125.78E	82–18	4.2,4.1		
DJA	IV	04 10 24 36.2–1.0	4N–29	126E–6.0	39–30	5.1b,4.7b		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**IV**	**05 05 57 05.7–1.8**	**2.62N**	**125.51E**	**0**	**4.0,3.8**		
								¶17199857
IDC	Error ellipse: s-maj=189.9km s-min=23.1km az=64.0.							
ISC	**IV**	**05 06 18 03.4–.62**	**3.41N–.07**	**127.0E–.10**	**48**	**4.1b,3.6s**	**23**	**2-123**
ISCJB	IV	05 06 18 02.0–.44	3.43N–.05	126.94E–.08	48	4.2b,3.5s		**¶16577670**
NEIC	IV	05 06 18 03.9–2.0	3.38N	126.93E	53–19	4.7b,3.5s		
DJA	IV	05 06 18 05.8–.50	3N–5.0	127E–5.0	10	5.5b,4.9		
IDC	IV	05 06 18 06.6–3.1	3.28N	126.69E	75–29	4.2,4.1		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=12.4km s-min=7.3km az=165.2.							
NEIC	Event type se. Error ellipse: s-maj=26.1km s-min=10.6km az=69.0.							
IDC	Error ellipse: s-maj=34.9km s-min=11.4km az=75.0.							
ISC	**IV**	**05 07 46 21.3–.62**	**3.04N–.03**	**127.18E–.04**	**29–3**	**5.3s,5.2b**	**486**	**2-168**
IDC	IV	05 07 46 16.2–.42	2.98N	127.06E	0	5.1s,5.1		**¶16409331**
BJI	IV	05 07 46 17.5	3.10N	127.10E	11	5.5s,5.3		
GCMT	IV	05 07 46 18.5–.10	3.11N	127.14E	14–0	5.6W,5.3		
NEIC	IV	05 07 46 18.5–.17	3.05N	127.08E	11	5.4W,5.3b		
MOS	IV	05 07 46 19.5–1.2	3.00N	126.96E	33	5.5b,5.3s		
ISCJB	IV	05 07 46 20.0–.76	3.13N–.02	127.16E–.02	30–5	5.3s,5.1b		
KLM	IV	05 07 46 21.3	3.18N	127.36E	45	6.2s,5.4b		
DJA	IV	05 07 46 26.1–.30	3N–2.0	127E–2.0	41–4	5.8b,5.8		
ISC	Event type se.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s110,c195; s126,c261;Duration: 1ᵻ5 Moment tensor: Scale 10^{17} Nm; M_{rr}-0.10±.03 $M_{\theta\theta}$1.13±.03; $M_{\phi\phi}$-1.03±.04; $M_{r\theta}$1.31±.14; $M_{\theta\phi}$-2.25±.04; $M_{\phi r}$0.80±.10; Best double couple: NP1:ϕ_s258.00000°,δ83.00000°,λ-150.00000°. NP2:ϕ_s165.00000°,δ61.00000°,λ-7.00000°. Principal axes: T 2.7340,Plg15.0000°,Azm28.0000° ; N 0.3660,Plg60.0000°,Azm270.0000°; P -3.0960,Plg25.0000°,Azm125.0000° M_o2.91500×10^{17}							
NEIC	Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.01 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-0.86 $M_{r\theta}$1.49 $M_{\theta\phi}$0.15 $M_{\phi r}$0.64 Best double couple: NP1:ϕ_s140.00000°,δ24.00000°,λ-7.00000°. NP2:ϕ_s236.00000°,δ87.00000°,λ-114.00000°. Principal axes: T 2.0700,Plg38.0000°,Azm347.0000°; N -0.6100,Plg24.0000°,Azm237.0000° ; P -1.4600,Plg43.0000°,Azm123.0000° M_o1.80000×10^{17}							
ISCJB	Event type se.							
ISC	**IV**	**05 07 53 33.8–.41**	**3.03N–.06**	**127.16E–.07**	**44**	**4.5b**	**57**	**2-124**
IDC	IV	05 07 53 27.2–.55	2.92N	126.89E	0	4.5,4.4		**¶16409332**
NEIC	IV	05 07 53 28.8–.25	2.95N	126.87E	10	4.7b,4.4		
DJA	IV	05 07 53 28.1–.60	3N–4.0	128E–4.0	10	6.6b,6.4		
ISCJB	IV	05 07 53 32.0–.29	3.07N–.04	127.17E–.05	44	4.5b,6.4		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**IV**	**05 09 24 56.0–2.0**	**2.44N**	**125.86E**	**0**	**3.7,3.4**		
								¶17199874
IDC	Error ellipse: s-maj=183.8km s-min=24.5km az=65.0.							
ISC	**IV**	**05 11 14 16.5–.41**	**3.05N–.03**	**126.98E–.03**	**28–2**	**5.6s,5.4b**	**812**	**2-168**
IDC	IV	05 11 14 11.9–.32	3.02N	126.95E	0	5.3s,5.3		**¶16411023**
BJI	IV	05 11 14 12.1	3.10N	127.00E	10	5.5,5.5b		
KLM	IV	05 11 14 13.6	3.02N	127.52E	18	6.2s,5.6b		
MOS	IV	05 11 14 15.5–1.4	3.07N	126.94E	33	5.6b,5.4s		
GCMT	IV	05 11 14 15.3–.10	3.06N	127.24E	15	5.8W,5.4s		
NEIC	IV	05 11 14 15.0–.00	3.06N	127.17E	17	5.8W,5.4s		
NEIC	IV	05 11 14 15.3–.13	3.03N	126.94E	20	5.9W,5.8		
ISCJB	IV	05 11 14 16.6–.35	3.04N–.02	126.99E–.02	43–3	5.5s,5.3b		
DJA	IV	05 11 14 20.9–.30	3N–2.0	127E–2.0	51–3	6.0,5.8b		
ISC	Event type se.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s115,c235; s106,c258;Duration: 2ᵻ0 Moment tensor: Scale 10^{17} Nm; M_{rr}3.36±.05 $M_{\theta\theta}$0.33±.04; $M_{\phi\phi}$-3.69±.05; $M_{r\theta}$1.15±.14; $M_{\theta\phi}$-2.69±.04; $M_{\phi r}$5.71±.14; Best double couple: NP1:ϕ_s12.00000°,δ73.00000°,λ77.00000°. NP2:ϕ_s230.00000°,δ21.00000°,λ126.00000°. Principal axes: T 6.5620,Plg60.0000°,Azm264.0000° ; N 1.3450,Plg12.0000°,Azm16.0000°; P -7.9040,Plg27.0000°,Azm112.0000° M_o7.23300×10^{17}							
NEIC	Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}3.20 $M_{\theta\theta}$0.30 $M_{\phi\phi}$-3.50 $M_{r\theta}$3.20 $M_{\theta\phi}$-2.40 $M_{\phi r}$6.40 Best double couple: NP1:ϕ_s26.00000°,δ76.00000°,λ91.00000°. NP2:ϕ_s203.00000°,δ14.00000°,λ87.00000°. Principal axes: T 7.4000,Plg59.0000°,Azm297.0000°; N 1.5000,Plg0.0000°,Azm206.0000° ; P -8.9000,Plg30.0000°,Azm115.0000° M_o8.00000×10^{17}							
NEIC	Event type se. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17} Nm; M_{rr}2.05 $M_{\theta\theta}$-0.52 $M_{\phi\phi}$-1.53 $M_{r\theta}$1.14 $M_{\theta\phi}$-1.22 $M_{\phi r}$2.01 Best double couple: NP1: ϕ_s218.00000°,δ22.00000°,λ97.00000°. NP2:ϕ_s30.00000°,δ68.00000°,λ87.00000°. Principal axes: T 3.0500,Plg67.0000°,Azm295.0000°; N 0.2900,Plg3.0000°,Azm32.0000° ; P -3.3400,Plg23.0000°,Azm123.0000° M_o3.20000×10^{17}							
ISCJB	Event type se.							
ISC	**IV**	**05 11 32 48.9–1.2**	**3.3N–.20**	**127.6E–.20**	**45**	**3.6b**	**7**	**14-63**
IDC	IV	05 11 32 43.0–1.0	3.09N	127.23E	0	3.7,3.6		**¶17199886**
ISCJB	IV	05 11 32 46.8–.83	3.3N–.20	127.6E–.20	45	3.5b,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**IV**	**05 11 46 50.1–1.7**	**2.42N**	**125.80E**	**0**	**3.5,3.4**		
								¶17199889
IDC	Error ellipse: s-maj=178.4km s-min=22.0km az=66.0.							
ISC	**IV**	**05 11 48 55.1–.43**	**3.11N–.05**	**127.17E–.07**	**44**	**4.4b,4.2s**	**65**	**2-124**
NEIC	IV	05 11 48 50.0–.41	3.11N	127.33E	10	4.5b,4.2s		**¶16411025**
DJA	IV	05 11 48 52.0–.90	3N–9.0	127E–6.0	10	5.3b,4.7		
BJI	IV	05 11 48 52.0	3.00N	127.10E	28	5.3b,4.8s		
ISCJB	IV	05 11 48 53.3–.30	3.14N–.03	127.23E–.06	44	4.3b,4.2s		
IDC	IV	05 11 49 02.1–4.9	2.81N	127.15E	132–48	4.2s,4.2		
ISC	Event type se.							
NEIC	Event type se. Error ellipse: s-maj=18.8km s-min=7.4km az=83.0.							
ISCJB	Event type se. Error ellipse: s-maj=9.1km s-min=4.4km az=171.8.							
IDC	Error ellipse: s-maj=23.6km s-min=10.8km az=80.0.							
ISC	**IV**	**05 12 00 03.7–1.1**	**3.1N–.20**	**127.2E–.50**	**44**	**3.7b**	**6**	**21-58**
IDC	IV	05 11 59 57.9–1.1	3.11N	127.06E	0	3.9,3.8		**¶17199891**
ISCJB	IV	05 12 00 01.7–.93	3.1N–.10	127.0E–.40	44	3.7b,3.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**IV**	**05 12 44 50.1–1.6**	**2.87N**	**125.76E**	**0**	**3.7,3.5**		
								¶17199893
IDC	Error ellipse: s-maj=183.6km s-min=19.4km az=65.0.							
IDC	**IV**	**05 15 23 45.4–2.0**	**2.31N**	**125.95E**	**0**	**3.7,3.6**		
								¶17199909
IDC	Error ellipse: s-maj=211.9km s-min=23.5km az=64.0.							
ISC	**IV**	**05 16 38 00.5–.70**	**3.0N–.10**	**126.9E–.20**	**44**	**3.9b**	**15**	**2-73**
IDC	IV	05 16 37 54.1–.78	2.96N	126.84E	0	3.9,3.8		**¶16506217**
NEIC	IV	05 16 37 56.1–.54	3.01N	126.81E	10	4.3b,3.8		
ISCJB	IV	05 16 37 58.4–.52	3.04N–.09	126.9E–.20	44	3.9b,3.8		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**IV**	**05 17 53 49.0–.39**	**3.05N–.05**	**127.09E–.06**	**44**	**4.6b,4.2s**	**133**	**2-123**
IDC	IV	05 17 53 42.7–.53	2.97N	126.96E	0	4.4,4.3b		**¶16411032**
BJI	IV	05 17 53 44.2	2.56N	127.36E	54	5.1b,4.7b		
NEIC	IV	05 17 53 45.7–2.8	3.04N	127.13E	22–20	4.7b,4.7b		
ISCJB	IV	05 17 53 46.7–.23	3.07N–.03	127.11E–.05	44	4.5b,4.2s		
GCMT	IV	05 17 53 50.1–.20	2.87N	127.11E	19–0	5.0W,4.2s		
DJA	IV	05 17 53 53.7–.60	3N–5.0	127E–4.0	10	5.2b,4.6b		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c71; s67,c111;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.18±.17 $M_{\theta\theta}$-0.76±.10; $M_{\phi\phi}$-2.42±.13; $M_{r\theta}$1.90±.25; $M_{\theta\phi}$-2.47±.09; $M_{\phi r}$0.12±.25; Best double couple: NP1:ϕ_s59.00000°,δ59.00000°,λ119.00000°. NP2:ϕ_s191.00000°,δ42.00000°,λ51.00000°. Principal axes: T 4.0660,Plg63.0000°,Azm19.0000°; N 0.3330,Plg25.0000°,Azm223.0000° ; P -4.3990,Plg10.0000°,Azm128.0000° M_o4.23300×10^{16}							
ISC	**IV**	**05 18 27 05.2–1.4**	**3.4N–.20**	**127.7E–.40**	**35**	**4.0b**	**15**	**3-63**
NEIC	IV	05 18 27 01.1–.65	3.43N	127.92E	10	4.3b		**¶602546041**
ISCJB	IV	05 18 27 02.8–.86	3.4N–.10	127.8E–.30	35	4.0b		
IDC	IV	05 18 27 02.4–1.7	2.53N	125.99E	0	3.9,3.8		
ISC	Event type se.							
NEIC	Event type se. Error ellipse: s-maj=36.9km s-min=8.6km az=71.0.							
ISCJB	Event type se. Error ellipse: s-maj=48.0km s-min=10.8km az=161.5.							
IDC	Error ellipse: s-maj=161.6km s-min=21.6km az=64.0.							
ISC	**IV**	**05 21 31 32.0–.69**	**3.0N–.10**	**127.0E–.20**	**44**	**4.4b,3.6s**	**22**	**21-123**
IDC	IV	05 21 31 26.1–.70	3.01N	126.95E	0	4.4,4.3b		**¶16577688**
NEIC	IV	05 21 31 27.4–.35	3.01N	126.94E	10	4.3b,4.3b		
ISCJB	IV	05 21 31 30.0–.47	3.01N–.07	126.9E–.20	44	4.3b,3.6s		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**IV**	**06 12 59 07.9–1.1**	**2.12N**	**125.24E**	**0**	**3.7,3.5**		
								¶17200006
IDC	Error ellipse: s-maj=142.0km s-min=18.7km az=67.0.							
IDC	**IV**	**06 19 08 43.2–1.9**	**3.76N**	**126.95E**	**0**	**3.5,3.3**		
								¶17200041
IDC	Error ellipse: s-maj=171.5km s-min=23.0km az=67.0.							
ISC	**IV**	**06 23 49 40.2–.54**	**3.14N–.04**	**126.89E–.05**	**46–4**	**4.9b,4.2s**	**384**	**1-168**
IDC	IV	06 23 49 33.1–.36	3.06N	126.86E	0	4.7,4.7		**¶16413288**
MOS	IV	06 23 49 36.9–1.1	3.11N	126.76E	33	5.3b,4.1s		
BJI	IV	06 23 49 38.7	3.19N	126.92E	52	5.1b,4.9b		
DJA	IV	06 23 49 38.8–.80	3N–7.0	127E–5.0	10	5.4b,5.0b		
ISCJB	IV	06 23 49 40.0–.54	3.10N–.03	126.96E–.03	64–5	4.9b,5.0b		
GCMT	IV	06 23 49 41.9–.30	3.00N	127.16E	28–0	5.0W,5.0b		
NEIC	IV	06 23 49 41.7–.79	3.07N	126.98E	61–7	5.0b,5.0b		
KLM	IV	06 23 49 45.1	3.47N	127.04E	100	5.6s,4.9b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=17.4km s-min=8.7km az=78.0.							
MOS	Error ellipse: s-maj=10.5km s-min=5.5km az=111.2.							
ISCJB	Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=149.7.							
GCMT	Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c52; s59,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.78±.20 $M_{\theta\theta}$-0.03±.12; $M_{\phi\phi}$-3.74±.14; $M_{r\theta}$1.06±.21; $M_{\theta\phi}$-0.94±.09; $M_{\phi r}$1.27±.22; Best double couple: NP1:ϕ_s24.00000°,δ56.00000°,λ102.00000°. NP2:ϕ_s183.00000°,δ35.00000°,λ73.00000°. Principal axes: T 4.1850,Plg75.0000°,Azm329.0000°; N 0.0620,Plg10.0000°,Azm197.0000° ; P -4.2410,Plg11.0000°,Azm105.0000° M_o4.21300×10^{16}							
NEIC	Event type se. Error ellipse: s-maj=7.5km s-min=5.1km az=63.0.							
IDC	**IV**	**07 07 57 54.5–1.8**	**2.85N**	**125.56E**	**0**	**3.5,3.4**		
								¶17200087
IDC	Error ellipse: s-maj=196.1km s-min=21.0km az=65.0.							
IDC	**IV**	**07 14 07 16.2–1.8**	**2.26N**	**125.54E**	**0**	**3.7,3.5**		
								¶17200122
IDC	Error ellipse: s-maj=170.8km s-min=25.2km az=64.0.							
IDC	**IV**	**08 15 28 33.9–1.9**	**3.06N**	**127.24E**	**0**	**3.8,3.6b**		
								¶17200256
IDC	Error ellipse: s-maj=150.0km s-min=23.1km az=66.0.							
IDC	**IV**	**10 22 09 16.4–2.3**	**3.13N**	**127.16E**	**0**	**3.5,3.3**		
								¶17200507
IDC	Error ellipse: s-maj=193.7km s-min=24.7km az=67.0.							
IDC	**IV**	**13 19 36 39.4–1.8**	**3.55N**	**127.50E**	**0**	**3.7,3.6**		
								¶17200932
IDC	Error ellipse: s-maj=100.3km s-min=23.5km az=69.0.							
IDC	**IV**	**13 20 45 05.0–2.0**	**2.44N**	**125.89E**	**0**	**3.6,3.4b**		
								¶17200943
IDC	Error ellipse: s-maj=188.4km s-min=25.0km az=65.0.							
ISC	**IV**	**13 23 16 42.3–.48**	**4.64N–.06**	**127.0E–.10**	**81**	**4.4b**	**72**	**3-123**
MOS	IV	13 23 16 36.7–.81	4.68N	127.10E	45	4.7b		**¶16587500**
BJI	IV	13 23 16 37.0	4.80N	127.80E	60	4.8b,4.6b		
ISCJB	IV	13 23 16 40.5–.35	4.63N–.05	127.0E–.10	81	4.3b,4.6b		
NEIC	IV	13 23 16 40.3–.93	4.64N	127.05E	64–8	4.4b,4.6b		
IDC	IV	13 23 16 40.0–2.9	4.65N	127.02E	60–27	4.2,4.0		
ISC	Event type se.							
MOS	Error ellipse: s-maj=20.4km s-min=7.3km az=107.0.							
ISCJB	Event type se. Error ellipse: s-maj=14.6km s-min=7.0km az=170.0.							
NEIC	Event type se. Error ellipse: s-maj=12.6km s-min=4.7km az=79.0.							
IDC	Error ellipse: s-maj=27.0km s-min=10.3km az=74.0.							
IDC	**IV**	**14 06 55 60.0–2.3**	**4.62N**	**126.72E**	**0**	**3.8,3.5**		
								¶17200994
IDC	Error ellipse: s-maj=190.8km s-min=26.7km az=66.0.							
IDC	**IV**	**14 19 04 44.8–1.4**	**3.32N**	**127.02E**	**0**	**3.7,3.5**		
								¶17201050
IDC	Error ellipse: s-maj=101.2km s-min=20.6km az=72.0.							
IDC	**IV**	**16 10 38 19.0–2.3**	**3.87N**	**126.96E**	**0**	**3.6,3.3**		
								¶17201210
IDC	Error ellipse: s-maj=192.1km s-min=25.8km az=66.0.							
IDC	**IV**	**16 18 41 36.3–2.5**	**4.36N**	**127.16E**	**0**	**3.4,3.3**		
								¶17201250
IDC	Error ellipse: s-maj=212.6km s-min=25.6km az=66.0.							
IDC	**IV**	**17 09 04 42.1–1.5**	**4.70N**	**126.51E**	**0**	**4.1,3.9b**		
								¶17201299
IDC	Error ellipse: s-maj=148.1km s-min=19.0km az=65.0.							
ISC	**IV**	**17 15 15 32.0–.46**	**3.15N–.07**	**126.89E–.09**	**44**	**4.3b**	**49**	**1-123**
IDC	IV	17 15 15 25.4–.50	3.07N	126.80E	0	4.3,4.2b		**¶16529598**
ISCJB	IV	17 15 15 30.2–.30	3.19N–.04	126.93E–.06	44	4.2b,3.1s		
NEIC	IV	17 15 15 30.4–5.4	3.08N	126.90E	33–38	4.4b,3.1s		
DJA	IV	17 15 15 30.6–.90	3N–9.0	127E–6.0	10	4.7b,4.4b		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
IDC	**IV**	**17 15 20 04.0–1.7**	**3.16N**	**126.75E**	**0**	**3.6,3.5**		
								¶17201330
IDC	Error ellipse: s-maj=109.3km s-min=22.9km az=68.0.							
ISC	**IV**	**17 17 38 40.3–.89**	**3.8N–.10**	**126.3E–.50**	**45**	**3.7b**	**8**	**11-57**
IDC	IV	17 17 38 34.2–.90	3.81N	126.32E	0	3.7,3.6b		**¶17201347**
ISCJB	IV	17 17 38 38.3–.73	3.8N–.10	126.3E–.40	45	3.6b,2.9s		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**IV**	**17 23 34 12.1–1.3**	**3.18N**	**126.15E**	**0**	**3.8,3.6**		
								¶17201370
IDC	Error ellipse: s-maj=152.0km s-min=20.4km az=67.0.							
ISC	**IV**	**18 04 19 58.4–.69**	**3.0N–.10**	**127.0E–.20**	**44**	**4.0b**	**17**	**2-123**

IDC IV 18 04 19 52.5–.72 3.11N 126.90E 0 4.1,4.0 ¶16532039
ISCJB IV 18 04 19 56.5–.53 3.08N–.09 126.9E–.20 44 4.0b,4.0
NEIC IV 18 04 19 57.5–.38 3.07N 126.93E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=38.3km s-min=14.2km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=30.2km s-min=8.7km az=162.5.
NEIC Event type se. Error ellipse: s-maj=22.0km s-min=6.6km az=73.0.
ISC IV 19 13 35 54.2–.94 3.22N–.09 127.0E–.10 44 4.0b 21 2-123
IDC IV 19 13 35 48.4–1.2 3.06N 126.82E 0 3.9,3.8b ¶16536014
DJA IV 19 13 35 51.9–.80 3N–9.0 127E–5.0 10 4.7b,4.1b
ISCJB IV 19 13 35 52.2–.64 3.25N–.06 127.07E–.09 44 3.9b,3.2s
NEIC IV 19 13 35 53.1–.68 3.20N 127.10E 35 4.3b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=101.4km s-min=16.5km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=6.8km az=151.3.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=9.7km az=65.0.
IDC IV 19 18 05 22.8–2.0 2.56N 125.63E 0 3.7,3.5
¶17201531
IDC Error ellipse: s-maj=188.8km s-min=24.7km az=65.0.
IDC IV 19 20 44 43.7–3.8 4.46N 125.49E 0 3.8,3.4
¶17201541
IDC Error ellipse: s-maj=212.2km s-min=31.1km az=88.0.
IDC IV 24 05 43 04.6–1.7 4.35N 127.12E 0 3.7,3.5
¶17201929
IDC Error ellipse: s-maj=160.2km s-min=21.6km az=68.0.
ISC IV 24 13 12 37.7–.44 3.92N–.06 126.70E–.08 45 4.3b,3.1s 69 1-99
ISCJB IV 24 13 12 35.8–.28 3.95N–.03 126.82E–.06 45 4.2b,3.2s ¶16476074
NEIC IV 24 13 12 38.1–1.5 3.87N 126.62E 57–14 4.4b,3.2s
DJA IV 24 13 12 40.2–.70 4N–7.0 127E–5.0 10 4.9b,4.5
BJI IV 24 13 12 44.5 4.98N 126.35E 50 4.8b,4.5b
IDC IV 24 13 12 44.5–1.6 3.77N 126.40E 114–15 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.3km az=160.1.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=7.5km az=72.0.
IDC Error ellipse: s-maj=24.1km s-min=9.0km az=78.0.
IDC IV 24 17 48 05.0–7.8 3.36N 126.32E 0 3.7,3.6
¶17201974
IDC Error ellipse: s-maj=188.9km s-min=126.1km az=75.0.
ISC IV 26 17 27 57.5–1.1 4.3N–.10 127.5E–.20 104 4.3b 14 4-63
IDC IV 26 17 27 45.8–1.8 4.46N 127.46E 0 4.0,3.8 ¶16631207
NEIC IV 26 17 27 54.6–1.7 4.51N 127.64E 73–15 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=140.6km s-min=22.5km az=65.0.
NEIC Event type se. Error ellipse: s-maj=28.4km s-min=10.7km az=61.0.
ISC IV 26 19 33 06.4–.96 4.2N–.10 127.3E–.10 36 4.2b 19 3-62
IDC IV 26 19 33 01.6–1.6 4.22N 127.18E 0 4.0,3.9 ¶16631209
ISCJB IV 26 19 33 04.3–.70 4.27N–.09 127.3E–.10 36 4.0b,3.9
NEIC IV 26 19 33 06.5–.64 4.23N 127.24E 35 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=47.4km s-min=19.6km az=56.0.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=8.0km az=144.1.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=7.6km az=54.0.
IDC IV 28 14 46 10.7–1.8 4.30N 126.46E 0 3.6,3.4
¶17202308
IDC Error ellipse: s-maj=119.3km s-min=20.5km az=70.0.
IDC IV 28 23 31 01.3–1.5 4.20N 126.58E 0 3.8s,3.8
¶17202332
IDC Error ellipse: s-maj=101.9km s-min=22.7km az=68.0.
IDC IV 30 08 53 50.7–1.5 4.64N 126.20E 0 3.7,3.5
¶17202449
IDC Error ellipse: s-maj=106.9km s-min=18.6km az=68.0.
ISC V 01 09 07 24.9–1.0 2.80N–.06 125.73E–.09 100 4.1b 15 1-38
IDC V 01 09 07 09.3–10 3.15N 126.06E 0 4.0,3.9 ¶17202507
ISCJB V 01 09 07 24.8–.77 2.73N–.06 125.8E–.10 100 3.8b,3.9
DJA V 01 09 07 26.3–.30 3N–3.0 126E–3.0 10 5.3b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 01 23 15 34.7–.76 4.6N–.10 126.4E–.20 85 3.9b 16 23-91
IDC V 01 23 15 24.1–.91 4.64N 126.42E 0 3.9,3.8b ¶16577945
NEIC V 01 23 15 29.2–.42 4.64N 126.48E 35 4.1b,3.8b
ISCJB V 01 23 15 32.6–.56 4.59N–.09 126.5E–.20 85 3.9b,3.8b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 02 14 35 55.2–1.1 3.61N 126.84E 0 3.8,3.7
¶17202616
IDC Error ellipse: s-maj=109.4km s-min=17.3km az=72.0.
IDC V 03 13 18 01.3–1.9 2.18N 125.42E 0 3.7,3.6
¶17202677
IDC Error ellipse: s-maj=197.6km s-min=25.8km az=64.0.
IDC V 03 13 25 08.6–1.8 2.31N 125.82E 0 3.8,3.6
¶17202678
IDC Error ellipse: s-maj=168.0km s-min=23.2km az=64.0.
IDC V 03 21 03 16.2–1.4 3.73N 127.12E 0 3.7,3.5
¶17202715
IDC Error ellipse: s-maj=105.1km s-min=19.0km az=73.0.
IDC V 04 14 49 38.3–2.1 2.65N 125.74E 0 3.5,3.3
¶17202767
IDC Error ellipse: s-maj=199.2km s-min=24.8km az=65.0.
IDC V 08 01 20 28.2–2.1 2.79N 125.97E 0 3.4,3.2
¶17203017
IDC Error ellipse: s-maj=193.4km s-min=25.6km az=65.0.
IDC V 10 04 11 35.0–2.1 4.62N 127.39E 0 3.8,3.6
¶17203169
IDC Error ellipse: s-maj=165.7km s-min=24.3km az=66.0.
IDC V 10 14 52 51.3–1.5 3.70N 125.16E 0 3.7,3.6
¶17203287
IDC Error ellipse: s-maj=128.6km s-min=19.1km az=69.0.
IDC V 11 09 08 06.1–1.7 3.12N 125.94E 0 3.9,3.8
¶17203373
IDC Error ellipse: s-maj=165.8km s-min=21.6km az=65.0.
IDC V 11 14 36 13.8–1.7 3.58N 126.87E 0 3.9,3.8b
¶17203400
IDC Error ellipse: s-maj=106.7km s-min=22.3km az=68.0.
ISC V 15 03 38 41.2–.65 4.70N–.08 126.8E–.10 85 4.3b 33 2-123
ISCJB V 15 03 38 39.3–.48 4.70N–.08 126.9E–.10 85 4.2b ¶16590017
NEIC V 15 03 38 40.2–.81 4.73N 126.74E 75–7 4.3b
MAN V 15 03 38 40 4.19N 125.37E 32 4.7b,3.6L
IDC V 15 03 38 41.2–2.8 4.77N 126.70E 82–25 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.2km s-min=4.8km az=153.6.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=5.6km az=64.0.
IDC Error ellipse: s-maj=113.3km s-min=12.4km az=68.0.
IDC V 16 20 35 45.1–1.8 3.92N 127.35E 0 3.8,3.7
¶17203772
IDC Error ellipse: s-maj=101.2km s-min=24.2km az=69.0.
ISC V 19 03 43 10.4–.63 4.66N–.06 126.78E–.08 85 4.3b 51 2-123
MAN V 19 03 43 04 4.49N 126.71E 7 5.2b,4.3s ¶16529257
NEIC V 19 03 43 05.4–.33 4.96N 126.95E 35 4.4b,4.3s
ISCJB V 19 03 43 07.3–.47 4.64N–.05 126.90E–.05 85 4.3b,4.3s
IDC V 19 03 43 13.8–2.4 4.83N 126.70E 113–21 4.2,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.4km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.5km az=142.6.
IDC Error ellipse: s-maj=39.0km s-min=11.0km az=70.0.
ISC V 19 14 35 42.3–.89 2.7N–.20 125.7E–.60 109 3.8b 9 5-71
IDC V 19 14 35 29.7–.88 2.58N 125.49E 0 3.9,3.8 ¶17203976
ISCJB V 19 14 35 40.3–.77 2.6N–.20 125.6E–.50 109 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 19 18 45 19.8–.66 4.6N–.10 127.6E–.30 104 4.0b 20 23-90

ISCJB V 19 18 45 18.3–.52 4.67N–.08 127.7E–.20 104 3.8b ¶17203986
IDC V 19 18 45 24.6–6.3 4.61N 127.78E 148–61 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.4km s-min=10.4km az=168.7.
IDC Error ellipse: s-maj=30.1km s-min=12.0km az=78.0.
IDC V 20 13 54 55.0–2.1 3.51N 125.60E 0 3.6,3.4
¶17204045
IDC Error ellipse: s-maj=201.0km s-min=25.7km az=65.0.
IDC V 23 19 22 18.7–2.2 3.49N 125.91E 0 3.5,3.3
¶17204318
IDC Error ellipse: s-maj=195.9km s-min=27.4km az=65.0.
IDC V 24 19 08 44.1–2.0 2.66N 125.08E 0 3.6,3.4
¶17204400
IDC Error ellipse: s-maj=200.1km s-min=25.8km az=64.0.
IDC V 24 21 28 06.9–1.9 2.40N 125.69E 0 3.8,3.6b
¶17204406
IDC Error ellipse: s-maj=121.2km s-min=23.9km az=68.0.
ISC V 28 20 17 11.6–.34 4.70N–.03 127.69E–.03 73–2 5.4b 841 2-171
MOS V 28 20 17 06.6–1.0 4.73N 127.61E 38 5.6b,4.4s ¶16551391
BJI V 28 20 17 06.9 4.34N 127.82E 69 5.4b,5.3b
ISCJB V 28 20 17 11.6–.32 4.73N–.01 127.70E–.02 85–2 5.3b,5.3b
KLM V 28 20 17 12.8 4.66N 127.74E 84 6.5s,5.7b
NEIC V 28 20 17 13.0–.45 4.69N 127.67E 85–4 5.4W,5.4b
MAN V 28 20 17 12 4.86N 127.72E 71 5.9b,5.5s
IDC V 28 20 17 13.4–1.1 4.66N 127.67E 89–9 5.2,4.9
GCMT V 28 20 17 13.0–.10 4.81N 127.56E 75–1 5.5W,4.9
DJA V 28 20 17 14.7–.40 5N–3.0 128E–3.0 93–4 6.3,5.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}0.62 $M_{\theta\theta}$0.33 $M_{\phi\phi}$-0.95 $M_{r\theta}$-0.88 $M_{\theta\phi}$-0.36 $M_{\phi r}$-1.00 Best double couple: NP1:ϕ_s220.00000° ,δ76.00000°,λ110.00000°. NP2:ϕ_s342.00000°,δ24.00000°,λ35.00000°. Principal axes: T 1.5000,Plg54.0000°,Azm154.0000°; N 0.2000,Plg20.0000°,Azm35.0000° ; P -1.7000,Plg29.0000°,Azm294.0000° $M_0$1.60000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s100,c166; s104,c186;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.02 $M_{\theta\theta}$2.01±.03; $M_{\phi\phi}$-2.06±.03; $M_{r\theta}$-0.61±.02; $M_{\theta\phi}$-0.46±.03; $M_{\phi r}$-0.47±.02; Best double couple: NP1:ϕ_s231.00000°,δ89.00000°,λ160.00000°. NP2:ϕ_s321.00000° ,δ70.00000°,λ1.00000°. Principal axes: T 2.2060,Plg15.0000°,Azm184.0000° ; N 0.0370,Plg70.0000°,Azm49.0000°; P -2.2380,Plg13.0000°,Azm278.0000° $M_0$2.22200×10^{17}
ISC V 29 01 11 53.0–.54 2.83N–.05 125.90E–.07 100 4.3b 39 1-122
ISCJB V 29 01 11 51.8–.40 3.00N–.04 125.86E–.06 100 4.2b ¶603241719
IDC V 29 01 11 54.6–9.3 2.82N 125.34E 119–87 4.3,4.1
NEIC V 29 01 11 57.8–1.2 2.85N 125.70E 150–13 4.2b,4.1
DJA V 29 01 11 58.1–.30 3N–3.0 126E–4.0 41–16 5.8b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 30 17 17 35.0–1.7 3.4N–.30 127.1E–.60 48 3.7b 6 5-58
IDC V 30 17 17 28.8–1.7 3.39N 126.90E 0 3.9,3.8 ¶17204772
ISCJB V 30 17 17 33.1–1.6 3.4N–.30 127.0E–.60 48 3.6b,2.4s
ISC Event type ke.
ISCJB Event type ke.
IDC V 31 11 49 49.2–2.2 3.48N 127.49E 0 3.7,3.5
¶17204828
IDC Error ellipse: s-maj=171.8km s-min=23.8km az=67.0.
IDC VI 04 09 57 52.6–32 3.94N 127.12E 0 3.8,3.6
¶17205180
IDC Error ellipse: s-maj=544.8km s-min=112.6km az=149.0.
ISC VI 05 07 46 28.3–.75 3.27N–.04 126.64E–.05 68–6 4.7b 215 1-161
BJI VI 05 07 46 20.0 2.94N 126.77E 40 4.8b,4.8b ¶16557339
IDC VI 05 07 46 26.8–1.8 3.17N 126.52E 56–15 4.6,4.4
ISCJB VI 05 07 46 27.1–.45 3.30N–.02 126.71E–.03 74–4 4.6b,4.4
NEIC VI 05 07 46 28.3–.71 3.24N 126.70E 73–6 4.7b,4.4
DJA VI 05 07 46 29.7–.70 3N–5.0 127E–5.0 83–7 5.2b,5.0
KLM VI 05 07 46 31.6 3.50N 126.58E 68 5.8s,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=7.6km az=80.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.2km az=167.7.
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=4.6km az=66.0. Felt at Bitung.
ISC VI 12 06 24 09.9–.64 4.07N–.04 126.52E–.05 33–3 4.7b 184 1-158
IDC VI 12 06 24 04.5–.42 3.96N 126.39E 0 4.5,4.5b ¶16591651
ISCJB VI 12 06 24 08.4–.20 4.04N–.03 126.55E–.04 33 4.6b,4.5b
MOS VI 12 06 24 09.5–.98 3.99N 126.46E 46 5.0b,4.5b
NEIC VI 12 06 24 10.2–.66 3.98N 126.37E 36–6 4.7b,4.5b
BJI VI 12 06 24 14.9 4.36N 126.20E 62 4.8b,4.7b
DJA VI 12 06 24 15.0–1.0 4N–6.0 127E–3.0 20–10 5.2b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 13 11 40 15.5–.66 4.76N–.09 127.5E–.30 108 4.0b 16 3-123
ISCJB VI 13 11 40 14.1–.55 4.87N–.07 127.6E–.20 108 3.9b ¶17206046
IDC VI 13 11 40 21.3–5.9 4.76N 127.58E 162–58 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.5km s-min=9.7km az=172.8.
IDC Error ellipse: s-maj=32.9km s-min=10.9km az=80.0.
IDC VI 14 22 35 15.8–9.7 4.90N 127.35E 299–107 4.1s,4.1
¶17206137
IDC Error ellipse: s-maj=48.5km s-min=22.3km az=72.0.
IDC VI 21 14 06 40.0–2.2 3.62N 125.83E 0 3.6,3.5
¶17206680
IDC Error ellipse: s-maj=208.0km s-min=25.7km az=65.0.
IDC VI 21 15 24 41.5–2.0 3.66N 126.94E 0 3.8,3.7
¶17206683
IDC Error ellipse: s-maj=170.3km s-min=23.6km az=65.0.
ISC VI 22 18 42 13.0–1.0 3.4N–.20 126.9E–.60 48 4.1b 9 21-91
IDC VI 22 18 42 06.5–1.2 3.46N 126.87E 0 4.1,4.0 ¶16731251
ISCJB VI 22 18 42 10.6–.98 3.5N–.20 126.8E–.60 48 3.9b,4.0
NEIC VI 22 18 42 11.5–.80 3.45N 126.88E 35 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=107.7km s-min=17.5km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=83.3km s-min=13.1km az=160.7.
NEIC Event type se. Error ellipse: s-maj=72.7km s-min=12.1km az=72.0.
IDC VI 22 21 47 36.9–1.1 4.35N 127.28E 0 3.7,3.7
¶17206784
IDC Error ellipse: s-maj=70.1km s-min=14.7km az=69.0.
ISC VI 23 16 33 12.6–.41 3.02N–.04 125.65E–.06 129 4.5b 70 1-91
ISCJB VI 23 16 33 11.2–.26 3.07N–.03 125.72E–.05 129 4.4b ¶16713640
NEIC VI 23 16 33 13.9–1.1 3.13N 125.77E 146–13 4.7b
IDC VI 23 16 33 14.1–3.1 3.01N 125.51E 146–30 4.1,3.8
DJA VI 23 16 33 14.4–.40 3N–3.0 126E–5.0 10 5.5b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 23 17 36 10.4–.92 4.1N–.20 126.5E–.20 45 3.7b 10 7-67
IDC VI 23 17 36 04.7–.88 4.06N 126.27E 0 4.6L,3.8 ¶17206824
ISCJB VI 23 17 36 08.3–.72 4.2N–.10 126.6E–.20 45 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 23 18 41 39.5–1.6 2.34N 125.38E 0 4.0,3.8
¶17206827
IDC Error ellipse: s-maj=109.3km s-min=22.3km az=67.0.
IDC VI 25 22 48 30.6–2.1 3.31N 127.87E 0 3.6,3.5
¶17206946
IDC Error ellipse: s-maj=157.8km s-min=24.6km az=67.0.
ISC VI 26 12 07 52.7–1.0 3.5N–.20 126.7E–.30 53 3.6b 7 4-58
IDC VI 26 12 07 45.9–1.2 3.50N 126.67E 0 3.9,3.7 ¶17206980
ISC Event type ke.
IDC Error ellipse: s-maj=96.4km s-min=18.4km az=71.0.
ISC VI 26 12 09 26.5–.47 3.47N–.08 126.6E–.10 53 4.2b 35 4-99

IDC VI 26 12 09 19.5–.59 3.50N 126.66E 0 4.2,4.1 ¶16731511
ISCJB VI 26 12 09 24.7–.34 3.51N–.06 126.73E–.09 53 4.2b,4.1
NEIC VI 26 12 09 25.8–1.5 3.46N 126.54E 44–15 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=30.8km s-min=12.5km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=5.8km az=149.7.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.6km az=66.0.
ISC VI 26 14 52 24.8–.45 3.67N–.06 126.77E–.06 48 4.3b 57 1-92
BJI VI 26 14 52 16.7 3.93N 127.12E 5 5.0b,4.7b ¶16684559
ISCJB VI 26 14 52 22.6–.30 3.70N–.04 126.85E–.04 48 4.3b,4.7b
DJA VI 26 14 52 22.3–1.4 4N–9.0 127E–7.0 10 4.7b,4.5
IDC VI 26 14 52 24.6–2.1 3.58N 126.53E 49–20 4.1,4.0
NEIC VI 26 14 52 30.4–1.2 3.60N 126.70E 107–12 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.0km az=146.3.
IDC Error ellipse: s-maj=22.6km s-min=9.0km az=73.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=6.6km az=57.0.
IDC VI 28 02 55 21.7–1.8 3.07N 126.95E 0 4.1s,4.1
¶17207109
IDC Error ellipse: s-maj=136.3km s-min=23.3km az=65.0.
ISC VI 28 09 50 03.9–.39 4.69N–.03 125.31E–.04 40–3 5.1b,4.7s 447 1-162
BJI VI 28 09 49 59.2 4.52N 125.46E 26 5.2b,5.1s ¶16684163
ISCJB VI 28 09 50 02.5–.41 4.71N–.02 125.31E–.02 40–3 5.0b,4.7s
MOS VI 28 09 50 02.3–1.4 4.82N 125.17E 36 5.3b,4.7s
IDC VI 28 09 50 04.6–1.9 4.70N 125.17E 46–19 4.7,4.6
GCMT VI 28 09 50 05.4–.10 4.76N 125.14E 12 5.3W,4.6
NEIC VI 28 09 50 05.4–.65 4.68N 125.23E 52–6 5.2b,4.6
DJA VI 28 09 50 06.2–.40 5N–3.0 125E–2.0 45–4 5.7b,5.6
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s72,c114; s101,c190;Duration: 1$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.62±.02 $M_{\theta\theta}$0.34±.01; $M_{\phi\phi}$-0.95±.02; $M_{r\theta}$-0.29±.04; $M_{\theta\phi}$-0.56±.01; $M_{\phi r}$-0.89±.04; Best double couple: NP1:ϕ_s197.00000°,δ68.00000°,λ86.00000°. NP2:ϕ_s28.00000° ,δ22.00000°,λ100.00000°. Principal axes: T 1.0240,Plg66.0000°,Azm100.0000° ; N 0.5480,Plg4.0000°,Azm198.0000°; P -1.5710,Plg23.0000°,Azm290.0000° $M_0$1.29700×10^{17}
NEIC Event type se.
ISC VI 28 11 04 15.3–.78 4.77N–.07 125.3E–.20 10 3.7b 11 2-85
IDC VI 28 11 04 13.9–.91 4.78N 125.39E 0 4.0,3.8 ¶17207136
ISCJB VI 28 11 04 14.2–.70 4.62N–.08 125.2E–.20 10 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 29 02 51 47.2–2.3 4.21N 125.60E 0 3.6,3.4
¶17207163
IDC Error ellipse: s-maj=206.8km s-min=27.2km az=65.0.
IDC VI 30 06 36 59.2–2.0 3.65N 127.07E 0 3.8,3.6
¶17207240
IDC Error ellipse: s-maj=120.5km s-min=25.1km az=70.0.
ISC VI 30 15 36 59.6–.49 4.37N–.04 127.04E–.07 81 4.5b 91 2-91
ISCJB VI 30 15 36 57.8–.30 4.43N–.03 127.10E–.05 81 4.4b ¶16713161
IDC VI 30 15 36 58.3–3.1 4.40N 126.81E 66–29 4.4L,4.2
NEIC VI 30 15 37 00.1–.92 4.51N 127.12E 89–9 4.5b,4.2
MAN VI 30 15 37 01 4.26N 126.66E 31 5.1b,4.2s
DJA VI 30 15 37 02.1–2.8 4N–9.0 127E–5.0 21–30 5.3b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

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IDC I 01 10 40 10.2–4.5 3.61N 128.24E 110–49 3.6,3.4
¶17189125
IDC Error ellipse: s-maj=76.4km s-min=25.2km az=72.0.
IDC I 05 01 40 57.6–1.9 3.46N 128.78E 0 4.1s,4.1
¶17189470
IDC Error ellipse: s-maj=110.1km s-min=21.7km az=72.0.
IDC I 22 04 00 25.7–4.2 3.09N 128.68E 102–47 3.8,3.5
¶17190713
IDC Error ellipse: s-maj=109.8km s-min=21.3km az=68.0.
ISC I 22 09 53 46.2–1.9 3.6N–.30 129.3E–.40 35 3.9b 6 22-59
IDC I 22 09 53 41.8–1.7 3.45N 128.96E 0 4.1,4.0 ¶17190734
ISCJB I 22 09 53 43.9–1.8 3.6N–.20 129.3E–.50 33 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 26 04 31 33.2–.65 3.1N–.10 128.3E–.20 35 4.2b,3.4s 20 5-125
ISCJB I 26 04 31 31.4–.48 3.20N–.08 128.4E–.20 33 4.1b,3.6s ¶17191005
IDC I 26 04 31 36.0–2.0 3.14N 128.47E 61–18 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=6.8km az=157.6.
IDC Error ellipse: s-maj=33.5km s-min=8.2km az=72.0.
ISC I 26 04 55 38.8–.60 3.27N–.08 128.5E–.10 45 4.0b,3.3s 29 3-125
ISCJB I 26 04 55 37.1–.44 3.31N–.05 128.54E–.07 45 4.1b,3.3s ¶16022424
NEIC I 26 04 55 37.2–.42 3.39N 128.84E 35 4.0b,3.3s
IDC I 26 04 55 42.7–2.0 3.24N 128.74E 85–19 4.1,3.9
DJA I 26 04 55 56.0–.70 2N–6.0 128E–5.0 93–17 5.3b,5.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 26 04 56 51.8–.89 3.5N–.20 128.9E–.40 35 4.1b 9 5-84
IDC I 26 04 56 55.5–3.5 3.44N 129.00E 70–34 4.0,4.0L ¶17191007
ISC Event type ke.
IDC Error ellipse: s-maj=58.9km s-min=17.1km az=70.0.
IDC I 29 02 12 43.6–1.1 4.13N 128.68E 0 3.9,3.7b
¶17191226
IDC Error ellipse: s-maj=54.3km s-min=20.3km az=66.0.
IDC II 04 22 53 44.0–2.6 3.02N 128.17E 0 3.5,3.3
¶17191699
IDC Error ellipse: s-maj=235.7km s-min=21.7km az=68.0.
ISC II 11 11 41 37.0–.75 3.16N–.10 129.0E–.20 200 4.0b 17 12-125
ISCJB II 11 11 41 35.3–.66 3.19N–.08 128.9E–.20 200 3.9b ¶17192075
IDC II 11 11 41 39.0–2.5 3.07N 128.70E 218–24 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.4km s-min=10.8km az=171.9.
IDC Error ellipse: s-maj=27.6km s-min=10.3km az=72.0.
IDC II 17 16 42 54.1–1.4 3.04N 129.13E 0 3.8,3.7
¶17192433
IDC Error ellipse: s-maj=90.3km s-min=18.4km az=73.0.
IDC II 21 19 27 39.5–1.1 3.67N 128.14E 0 4.0,3.8b
¶17192654
IDC Error ellipse: s-maj=53.8km s-min=16.3km az=71.0.
IDC II 25 09 19 10.7–4.8 3.14N 129.71E 0 3.6,3.4
¶17192828
IDC Error ellipse: s-maj=364.1km s-min=25.2km az=69.0.
IDC III 04 02 15 09.4–2.0 4.27N 128.52E 0 3.8,3.6
¶17193217
IDC Error ellipse: s-maj=104.8km s-min=24.2km az=71.0.
IDC III 07 21 52 30.9–1.9 3.38N 130.16E 0 3.7,3.5
¶17193436
IDC Error ellipse: s-maj=93.9km s-min=20.7km az=67.0.
IDC III 28 12 00 49.0–2.2 4.39N 128.52E 0 3.7,3.5
¶17198943
IDC Error ellipse: s-maj=150.5km s-min=28.2km az=66.0.
ISC IV 05 05 38 00.8–.56 3.49N–.07 128.94E–.10 35 4.0b 36 3-159
ISCJB IV 05 05 37 58.7–.42 3.54N–.05 128.89E–.07 33 4.1b ¶16577668
IDC IV 05 05 38 05.7–2.6 3.39N 128.68E 83–23 4.2,3.9
NEIC IV 05 05 38 05.9–1.2 3.35N 128.67E 86–11 4.5b,3.9
DJA IV 05 05 38 08.5–2.3 3N–16 128E–15 10 5.3b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 13 19 31 54.6–2.4 3.67N 128.13E 0 3.4,3.2
¶17200931
IDC Error ellipse: s-maj=185.4km s-min=25.1km az=68.0.
IDC IV 18 22 19 59.5–1.7 3.24N 128.18E 0 3.7,3.6
¶17201451
IDC Error ellipse: s-maj=146.5km s-min=22.5km az=66.0.
IDC IV 22 06 05 46.6–11 3.82N 128.15E 0 4.1,3.9
¶17201789
IDC Error ellipse: s-maj=186.5km s-min=134.5km az=160.0.
IDC IV 22 15 33 26.9–2.3 3.07N 129.15E 0 4.4L,4.0
¶17201825
IDC Error ellipse: s-maj=176.2km s-min=23.0km az=65.0.
IDC IV 26 16 02 01.2–2.6 3.26N 128.53E 0 3.4,3.2
¶17202162
IDC Error ellipse: s-maj=186.8km s-min=28.4km az=69.0.
IDC IV 28 18 26 41.0–1.6 3.74N 128.65E 0 4.0,3.8b
¶17202321
IDC Error ellipse: s-maj=71.0km s-min=18.2km az=64.0.
IDC V 05 05 38 12.4–1.1 3.03N 128.69E 0 4.1,3.9b
¶17202820
IDC Error ellipse: s-maj=67.8km s-min=18.6km az=78.0.
IDC V 11 18 54 35.9–2.4 3.44N 128.03E 0 3.6,3.4
¶17203424
IDC Error ellipse: s-maj=183.9km s-min=23.8km az=68.0.
ISC V 15 09 40 35.9–.82 4.14N–.10 128.4E–.20 46 4.1b 16 4-91
IDC V 15 09 40 29.2–.96 4.21N 128.60E 0 4.2L,4.1 ¶16591587
ISCJB V 15 09 40 34.0–.62 4.13N–.07 128.4E–.10 46 4.1b,3.3s
NEIC V 15 09 40 34.8–.50 4.18N 128.46E 35 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=62.1km s-min=16.5km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=9.6km az=167.4.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=8.0km az=78.0.
IDC V 20 01 26 13.8–2.4 3.20N 129.22E 0 3.7,3.5
¶17204003
IDC Error ellipse: s-maj=158.5km s-min=25.4km az=69.0.
IDC V 24 21 34 55.7–1.7 3.10N 129.03E 0 3.8,3.6
¶17204407
IDC Error ellipse: s-maj=97.2km s-min=19.8km az=72.0.
IDC V 26 21 07 28.8–2.2 3.13N 129.19E 0 3.6,3.4
¶17204532
IDC Error ellipse: s-maj=166.4km s-min=21.8km az=69.0.
IDC V 30 09 24 26.9–.98 3.02N 128.94E 0 4.0,3.9
¶17204748
IDC Error ellipse: s-maj=63.8km s-min=17.7km az=76.0.
IDC V 30 22 15 01.2–2.1 3.16N 129.24E 0 4.0,3.9
¶17204791
IDC Error ellipse: s-maj=139.4km s-min=24.2km az=68.0.
IDC V 31 17 06 17.2–2.2 3.03N 128.91E 0 3.4,3.2
¶17204835
IDC Error ellipse: s-maj=145.8km s-min=25.1km az=68.0.
ISC VI 08 08 57 12.6–.45 3.01N–.04 128.59E–.07 200 4.2b 67 3-125
ISCJB VI 08 08 57 11.4–.32 3.12N–.03 128.75E–.05 200 4.2b ¶16575917
DJA VI 08 08 57 14.5–.90 3N–9.0 129E–5.0 207–7 5.2,5.0b
IDC VI 08 08 57 15.2–1.2 3.03N 128.58E 226–12 4.4,4.0
NEIC VI 08 08 57 15.2–.77 3.06N 128.59E 228–8 4.9b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.3km az=7.4.
IDC Error ellipse: s-maj=14.8km s-min=7.9km az=83.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=5.8km az=85.0.
IDC VI 18 19 50 41.2–2.0 3.39N 128.75E 0 3.6,3.4
¶17206487
IDC Error ellipse: s-maj=109.9km s-min=22.1km az=72.0.
IDC VI 23 21 01 08.6–2.4 3.12N 128.97E 0 3.6,3.4
¶17206834
IDC Error ellipse: s-maj=186.5km s-min=22.0km az=70.0.
IDC VI 28 18 56 12.8–1.3 4.14N 128.15E 0 3.8,3.7
¶17207152
IDC Error ellipse: s-maj=60.6km s-min=22.3km az=66.0.

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ISC I 04 11 28 35.2–.83 0.26N–.06 120.81E–.06 89 3.7b 20 1-67
IDC I 04 11 28 23.9–.92 0.62N 121.52E 0 3.8,3.7 ¶17189417
ISCJB I 04 11 28 34.3–.55 0.31N–.05 120.73E–.04 89 3.6b,3.7
DJA I 04 11 28 37.7–.40 0N–3.0 121E–3.0 73–10 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 05 06 10 16.1–10 1.55N 123.78E 330–110 3.8,3.2
¶17189483
IDC Error ellipse: s-maj=141.1km s-min=15.5km az=59.0.
IDC I 06 06 42 18.4–1.5 0.42N 121.42E 0 3.4,3.2
¶17189574
IDC Error ellipse: s-maj=195.8km s-min=24.5km az=60.0.
DJA I 07 03 55 30.3–.40 0S–2.0 123E–3.0 10 3.5,3.5
¶601988925
ISC I 07 16 56 25.9–.71 0.26N–.07 121.93E–.06 200 3.6b 29 0-62
ISCJB I 07 16 56 25.2–.39 0.28N–.06 121.91E–.06 200 3.6b ¶17189649
DJA I 07 16 56 28.2–.90 0N–8.0 122E–4.0 189–8 4.5b,4.2b
IDC I 07 16 56 28.0–3.6 0.20N 121.90E 226–39 3.9s,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.7km az=38.9.
IDC Error ellipse: s-maj=50.7km s-min=13.0km az=65.0.
ISC I 07 23 03 48.3–.72 0.72S–.07 123.28E–.05 54 3.7b 24 1-121
IDC I 07 23 03 41.4–.92 0.53S 123.56E 0 4.1L,3.9 ¶16017954
ISCJB I 07 23 03 46.5–.46 0.74S–.06 123.26E–.05 54 3.7b,3.9
NEIC I 07 23 03 46.5–.68 0.66S 123.34E 35 4.1b,3.9
DJA I 07 23 03 46.2–.40 1S–4.0 123E–4.0 10 4.4,4.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 08 12 43 36.4–.59 0.23S–.06 123.23E–.06 100 3.8b 29 1-90
ISCJB I 08 12 43 35.0–.43 0.13S–.05 123.25E–.05 100 3.8b ¶17189697
IDC I 08 12 43 37.9–.81 0.18S 123.21E 115–7 3.9,3.7
DJA I 08 12 43 38.7–.80 0S–9.0 123E–3.0 55–28 4.7,4.7
ISC Event type ke.
ISCJB Event type ke.
DJA I 10 07 45 28.1–1.0 1N–4.0 121E–3.0 11–8 3.6,3.6
¶601989091
ISC I 10 08 35 35.3–.38 0.82N–.03 123.29E–.03 64–3 4.9b 405 0-155
BJI I 10 08 35 29.6 0.18N 123.77E 79 5.2b,5.0b ¶15914939
MOS I 10 08 35 31.1–1.0 0.88N 123.41E 43 5.0b,5.0b
NEIC I 10 08 35 34.9–.19 0.83N 123.31E 60 5.1b,5.0b
IDC I 10 08 35 34.2–.52 0.78N 123.42E 60–4 4.7,4.5
ISCJB I 10 08 35 34.3–.25 0.82N–.02 123.33E–.02 70–2 4.8b,4.5
GCMT I 10 08 35 36.7–.40 1.06N 123.27E 35–1 4.9W,4.5
DJA I 10 08 35 36.9–.10 1N–2.0 123E–1.0 50 5.6b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gorontalo.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c35; s63,c90;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.28±.21 $M_{\theta\theta}$2.10±.12; $M_{\phi\phi}$0.17±.14; $M_{r\theta}$-1.73±.12; $M_{\theta\phi}$-0.09±.09; $M_{\phi r}$0.48±.17; Best double couple: NP1:ϕ_s100.00000°,δ65.00000°,λ-84.00000°. NP2:ϕ_s266.00000°,δ26.00000°,λ-103.00000°. Principal axes: T 2.7240,Plg19.0000°,Azm186.0000°; N 0.2090,Plg6.0000°,Azm278.0000° ; P -2.9400,Plg70.0000°,Azm23.0000° $M_0$2.83200×10^{16}
ISC I 10 14 36 00.0–.62 0.22N–.07 122.28E–.05 150 3.7b 33 0-58
ISCJB I 10 14 35 58.4–.42 0.43N–.05 122.36E–.04 150 3.7b ¶17189861
DJA I 10 14 36 01.9–.60 0N–5.0 122E–3.0 152–6 4.2b,4.1
IDC I 10 14 36 01.6–2.9 0.25N 122.35E 178–26 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.8km az=32.3.
IDC Error ellipse: s-maj=50.4km s-min=12.5km az=62.0.
IDC I 11 05 42 53.5–1.6 0.84N 122.52E 0 3.8,3.6

¶17189901
IDC Error ellipse: s-maj=217.7km s-min=24.7km az=61.0.
DJA I 15 18 43 34.9–.50 0N–4.0 122E–3.0 13–7 3.7,3.7
¶601989385
IDC I 16 11 34 35.2–1.3 0.40N 123.70E 0 3.4,3.3
¶17190317
IDC Error ellipse: s-maj=153.9km s-min=21.8km az=66.0.
IDC I 19 06 10 29.5–1.2 0.10N 121.54E 0 3.6,3.5
¶17190534
IDC Error ellipse: s-maj=179.6km s-min=19.9km az=63.0.
DJA I 21 02 41 08.6–1.5 1N–12 121E–12 13–19 3.6,3.6
¶601989752
IDC I 22 13 14 38.7–1.1 0.68N 122.35E 0 4.0L,3.7
¶17190746
IDC Error ellipse: s-maj=112.5km s-min=18.8km az=67.0.
DJA I 23 06 31 07.8–1.0 0N–10 121E–5.0 67–10 4.0,3.9
¶601989898
ISC I 23 13 26 51.3–.40 1.08N–.05 121.00E–.05 29 4.6b,3.4s 121 1-118
IDC I 23 13 26 46.2–.60 1.01N 120.99E 0 4.3,4.3 ¶16020109
BJI I 23 13 26 49.2 0.56N 121.11E 63 4.9b,4.8b
ISCJB I 23 13 26 50.6–.22 1.18N–.03 120.89E–.03 29 4.5b,3.4s
DJA I 23 13 26 51.9–.20 1N–3.0 121E–2.0 10 7.8,5.3b
NEIC I 23 13 26 54.4–.56 0.99N 120.84E 65–6 4.5b,5.3b
KLM I 23 13 26 56.0 1.30N 120.90E 63 5.6s,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=23.9km s-min=12.3km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.6km az=139.1.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.6km az=51.0. Felt [III] at Tolitoli.
ISC I 25 15 04 25.2–1.0 0.32N–.07 120.93E–.05 103–11 3.5b 18 1-57
IDC I 25 15 04 10.6–2.5 2.62N 125.22E 0 3.7,3.5 ¶601990050
ISCJB I 25 15 04 23.7–.67 0.35N–.07 120.91E–.04 110–7 3.3b,3.5
DJA I 25 15 04 25.5–.50 0N–4.0 121E–3.0 83–12 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC I 25 22 50 00.9–17 0.35S 122.08E 0 3.9,3.7
¶17190992
IDC Error ellipse: s-maj=463.6km s-min=235.0km az=41.0.
DJA I 26 15 30 21.0–.40 1S–3.0 120E–3.0 30–3 6.0b,5.6
¶601990107
ISC I 27 22 13 37.0–1.0 0.4N–.10 123.61E–.08 250 3.0b 11 2-59
IDC I 27 22 13 11.4–1.4 0.44N 123.19E 0 3.7,3.5 ¶17191151
ISCJB I 27 22 13 35.9–.75 0.4N–.10 123.63E–.09 250 3.2b,3.5
DJA I 27 22 13 38.0–1.5 0N–12 124E–5.0 230–18 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 00 34 25.4–.79 0.28N–.07 121.92E–.05 187–6 3.8b 24 0-119
ISCJB I 30 00 34 24.7–.54 0.28N–.06 121.93E–.05 192–4 3.7b ¶17191276
DJA I 30 00 34 26.6–.50 0N–4.0 122E–3.0 174–5 3.7,3.7
IDC I 30 00 34 29.9–4.0 0.03N 121.64E 231–41 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.8km az=172.7.
IDC Error ellipse: s-maj=69.2km s-min=14.4km az=61.0.
ISC I 30 10 06 50.7–1.0 0.05S–.08 123.66E–.05 157 3.5b 16 1-59
IDC I 30 10 06 29.9–1.6 0.63N 124.11E 0 3.8L,3.7 ¶17191308
ISCJB I 30 10 06 50.6–.58 0.11S–.08 123.68E–.05 157 3.4b,3.7
DJA I 30 10 06 50.9–.60 0N–4.0 124E–3.0 157–6 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 17 16 08.5–1.2 0.2N–.10 124.5E–.20 100 3.3b 11 1-59
IDC I 30 17 15 57.9–1.3 1.99S 120.74E 0 3.5,3.4 ¶601990386
ISCJB I 30 17 16 07.0–1.1 0.1N–.10 124.5E–.10 100 3.3b,3.4
DJA I 30 17 16 19.7–.40 0N–5.0 124E–3.0 36–5 4.4b,3.9
ISC Event type ke.
ISCJB Event type ke.
DJA I 31 02 08 51.5–.60 0S–4.0 123E–4.0 83–8 3.9,3.9
¶601990418
ISC II 02 14 26 47.5–.72 0.88N–.05 122.69E–.04 50 3.4b 38 1-60
IDC II 02 14 26 40.4–.93 1.01N 123.15E 0 3.9L,3.7 ¶17191547
ISCJB II 02 14 26 46.3–.48 0.85N–.04 122.70E–.03 50 3.6s,3.5b
DJA II 02 14 26 48.8–.30 1N–3.0 123E–2.0 43–5 4.7b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC II 02 19 25 17.7–.44 1.15N–.04 122.41E–.05 418–4 4.5b 386 1-162
MOS II 02 19 25 16.6–.91 1.26N 122.30E 416 4.7b ¶16002358
ISCJB II 02 19 25 17.2–.17 1.19N–.02 122.44E–.02 427–2 4.6b
DJA II 02 19 25 17.9–.10 1N–2.0 122E–2.0 417–2 5.3,5.2b
BJI II 02 19 25 17.4 1.20N 122.40E 419 4.6b,4.4b
IDC II 02 19 25 18.3–.77 1.16N 122.36E 424–8 4.9,4.2
NEIC II 02 19 25 18.2–.36 1.21N 122.42E 424–4 4.7b,4.2
KLM II 02 19 25 20.5 1.11N 122.14E 419 6.1s,5.0b
ISC Event type se.
MOS Error ellipse: s-maj=11.6km s-min=5.7km az=115.3.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=13.5.
IDC Error ellipse: s-maj=12.5km s-min=5.6km az=79.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=70.0.
ISC II 05 11 43 43.7–.69 0.26N–.06 122.09E–.04 188–6 3.8b 43 0-62
ISCJB II 05 11 43 43.2–.34 0.28N–.04 122.08E–.04 191–3 3.9b ¶17191734
IDC II 05 11 43 45.9–4.0 0.17N 122.03E 212–39 4.1,3.7
DJA II 05 11 43 47.6–.30 0N–3.0 122E–2.0 152–3 4.7b,4.2b
ISC Event type ke.
ISCJB Event type ke.
IDC II 06 04 22 30.4–1.2 0.65N 122.25E 0 3.7,3.6
¶17191776
IDC Error ellipse: s-maj=115.1km s-min=19.4km az=67.0.
IDC II 06 08 29 11.2–9.3 0.27N 122.17E 222–92 3.6,3.2
¶17191785
IDC Error ellipse: s-maj=120.9km s-min=26.3km az=59.0.
ISC II 07 13 55 42.1–.71 0.09S–.06 123.20E–.05 157 3.5b 29 1-62
IDC II 07 13 55 37.8–8.9 0.21N 123.51E 114–86 3.6,3.4 ¶17191860
ISCJB II 07 13 55 41.2–.40 0.06S–.05 123.17E–.04 157 3.5b,3.4
DJA II 07 13 55 43.1–.50 0S–4.0 123E–3.0 135–5 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 07 15 50 17.9–.59 0.06S–.08 123.49E–.07 157 3.7b 41 1-93
IDC II 07 15 50 14.6–6.5 0.25N 123.79E 125–61 3.8,3.6 ¶17191864
ISCJB II 07 15 50 16.8–.33 0.01S–.05 123.54E–.04 157 3.6b,3.6
DJA II 07 15 50 20.0–.30 0S–3.0 124E–2.0 94–7 4.3b,4.2
ISC Event type ke.
ISCJB Event type ke.
DJA II 08 16 55 23.9–.60 1N–3.0 121E–3.0 31–7 4.2b,4.0
¶602001284
ISC II 09 11 40 08.0–1.4 0.60S–.05 119.75E–.05 18–6 4.1b 33 0-62
IDC II 09 11 40 05.6–.96 0.50S 120.35E 0 4.1,4.1L ¶16160381
ISCJB II 09 11 40 07.0–1.3 0.57S–.04 119.68E–.04 16–10 4.0s,4.0b
DJA II 09 11 40 08.2–.40 1S–3.0 120E–3.0 10 4.9b,4.5
NEIC II 09 11 40 13.6–1.3 0.79S 119.89E 68–13 4.0b,4.5
ISC Event type fe.
IDC Error ellipse: s-maj=71.5km s-min=16.3km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=8.1km s-min=5.6km az=138.9.
NEIC Event type fe. Error ellipse: s-maj=17.5km s-min=10.4km az=76.0. Felt [III] at Palu.
ISC II 09 19 19 08.1–.45 0.02N–.05 123.24E–.05 162 4.2b 80 1-121
ISCJB II 09 19 19 07.3–.29 0.03N–.04 123.30E–.04 162 4.3b ¶16397899
IDC II 09 19 19 09.2–1.5 0.03N 123.16E 175–14 4.2,3.8
DJA II 09 19 19 10.0–.30 0S–3.0 123E–2.0 127–3 4.8b,4.6b
ISC Event type ke.
ISCJB Event type ke.
ISC II 10 10 39 47.1–.61 0.14S–.05 123.27E–.05 100 3.8b 30 1-121
ISCJB II 10 10 39 46.3–.41 0.14S–.04 123.29E–.05 100 3.9b ¶17192006
IDC II 10 10 39 47.5–3.4 0.11S 123.38E 105–34 3.9,3.7
DJA II 10 10 39 49.4–1.1 0S–4.0 123E–3.0 38–16 4.8b,4.6b
ISC Event type ke.
ISCJB Event type ke.
ISC II 14 02 52 09.3–1.2 1.45N–.07 123.16E–.05 10 3.3b 19 1-57
ISCJB II 14 02 52 08.9–.89 1.49N–.06 123.10E–.04 10 3.2b ¶602001628
IDC II 14 02 52 08.4–1.8 2.85N 127.87E 0 3.5,3.4
DJA II 14 02 52 11.4–.80 1N–6.0 123E–4.0 10 4.2,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC II 15 18 13 45.8–.31 1.76N–.04 124.14E–.05 323 4.5b 160 1-149
BJI II 15 18 13 43.6 1.80N 124.00E 300 4.7b,4.3b ¶16339747
KLM II 15 18 13 44.0 1.73N 124.36E 301 5.5s,4.7b
NEIC II 15 18 13 44.6–.42 1.80N 124.02E 314–5 4.7b,4.7b
ISCJB II 15 18 13 44.3–.18 1.80N–.02 124.09E–.03 323 4.3b,4.7b
IDC II 15 18 13 45.8–1.2 1.76N 124.04E 326–12 4.6,4.0
DJA II 15 18 13 46.2–.20 2N–3.0 124E–2.0 303–3 5.1,5.0b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
DJA II 15 18 52 17.1–.50 0S–4.0 122E–4.0 19–8 4.6b,3.3
¶602001672
ISC II 16 06 33 20.0–1.1 0.87N–.06 119.99E–.06 28 3.4b 16 2-38
IDC II 16 06 32 59.4–1.9 4.45N 123.00E 0 3.7,3.5 ¶602001741
ISCJB II 16 06 33 21.7–1.7 0.7N–.10 120.03E–.08 28 3.4b,3.5
DJA II 16 06 33 25.0–1.6 1N–3.0 120E–3.0 15–21 4.3,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 16 31 26.8–.68 1.71N–.06 120.93E–.06 37 3.9b 36 2-80
KLM II 17 16 30 18.9 2.01S 124.34E 97 5.7s,4.5b ¶16358616
IDC II 17 16 31 21.5–.98 1.63N 121.17E 0 3.8,3.8L
ISCJB II 17 16 31 25.5–.40 1.69N–.04 120.85E–.05 37 3.9s,3.9b
DJA II 17 16 31 26.2–.30 2N–3.0 121E–3.0 10 4.7b,4.6b
NEIC II 17 16 31 26.5–.70 1.76N 121.19E 35 4.1b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=47.9km s-min=16.9km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.2km az=157.5.
NEIC Event type se. Error ellipse: s-maj=31.6km s-min=11.2km az=58.0.
IDC II 18 00 49 57.0–1.9 1.34N 124.64E 0 3.4,3.2
¶17192453
IDC Error ellipse: s-maj=158.2km s-min=27.6km az=63.0.
ISC II 18 01 26 26.7–.93 0.08N–.09 124.74E–.08 35 3.8b 16 1-94
ISCJB II 18 01 26 24.7–.65 0.24N–.07 124.72E–.07 35 3.8b ¶17192454
DJA II 18 01 26 27.9–1.6 0N–14 125E–7.0 54–30 4.4,4.3
IDC II 18 01 27 08.3–8.6 0.24N 126.42E 518–115 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=9.3km az=36.4.
IDC Error ellipse: s-maj=79.2km s-min=28.5km az=63.0.
DJA II 20 03 59 27.9–.70 1N–5.0 122E–3.0 10 3.6,3.6
¶602001912
DJA II 20 09 38 28.7–.40 0S–4.0 123E–3.0 129–5 5.2b,4.5
¶602001908
ISC II 21 09 19 29.3–.47 0.28N–.06 121.49E–.05 150 4.2b 70 0-128
BJI II 21 09 19 23.1 0.32S 121.87E 149 5.0b,4.6b ¶16398657
ISCJB II 21 09 19 28.3–.26 0.36N–.04 121.47E–.04 150 4.1b,4.6b
NEIC II 21 09 19 30.7–.77 0.24N 121.55E 170–8 4.2b,4.6b
IDC II 21 09 19 32.6–2.2 0.18N 121.45E 188–22 4.3,3.8
DJA II 21 09 19 33.2–.50 0N–4.0 121E–3.0 113–6 5.1b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 21 21 16 02.1–.61 0.03N–.06 123.16E–.05 162 3.8b 36 1-121
ISCJB II 21 21 16 01.0–.36 0.10N–.05 123.21E–.05 162 3.7b ¶16301886
DJA II 21 21 16 03.0–.70 0N–9.0 123E–3.0 155–14 5.2b,4.5
IDC II 21 21 16 03.3–3.4 0.00N 123.22E 179–35 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=6.7km az=30.1.
IDC Error ellipse: s-maj=28.0km s-min=12.3km az=63.0.
ISC II 22 20 15 24.0–.63 0.03S–.06 123.26E–.05 157 3.5b 39 1-121
ISCJB II 22 20 15 23.0–.33 0.02S–.04 123.29E–.04 157 3.5b ¶17192725
IDC II 22 20 15 25.0–5.8 0.25N 123.62E 170–56 3.7,3.4
DJA II 22 20 15 25.3–.50 0S–4.0 123E–2.0 129–5 4.4b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC II 23 06 15 30.6–1.5 1.6N–.10 123.3E–.10 35 3.1b 9 1-57
IDC II 23 06 15 24.2–1.9 2.44N 124.75E 0 3.6,3.4 ¶602002030
ISCJB II 23 06 15 29.0–1.2 1.67N–.09 123.2E–.10 35 3.2b,3.4
DJA II 23 06 15 33.2–1.5 2N–8.0 123E–11 17–11 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC II 24 11 13 07.1–.54 0.09S–.04 123.29E–.03 151–4 4.5b 128 1-154
ISCJB II 24 11 13 05.9–.26 0.04S–.03 123.27E–.03 149–2 4.4b ¶16158852
IDC II 24 11 13 07.0–1.4 0.00S 123.23E 152–13 4.5,4.2
DJA II 24 11 13 07.9–.50 0S–3.0 123E–2.0 121–5 4.8b,4.7
NEIC II 24 11 13 07.2–.69 0.01N 123.32E 152–7 4.5b,4.7
BJI II 24 11 13 08.1 0.00N 123.40E 168 4.9b,4.5b
KLM II 24 11 13 19.1 0.54N 123.05E 198 6.2s,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.2km az=30.9.
IDC Error ellipse: s-maj=14.6km s-min=7.9km az=74.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=5.9km az=62.0.
ISC II 25 21 13 18.4–.46 0.23N–.04 122.29E–.04 191–4 4.5b 207 0-153
KLM II 25 21 13 16.9 0.36N 122.20E 186 5.8s,4.8b ¶16363021
ISCJB II 25 21 13 17.3–.24 0.26N–.03 122.32E–.03 192–2 4.4b,4.8b
BJI II 25 21 13 17.0 0.40N 122.30E 177 4.8b,4.8b
IDC II 25 21 13 18.5–.73 0.26N 122.20E 191–6 4.5,4.1
NEIC II 25 21 13 18.9–.52 0.22N 122.21E 197–5 4.6b,4.1
DJA II 25 21 13 19.0–.20 0N–3.0 122E–2.0 178–2 5.0b,4.8
MOS II 25 21 13 19.4–1.1 0.25N 122.18E 214 4.4b,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=1.5.
IDC Error ellipse: s-maj=16.4km s-min=7.8km az=71.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.5km az=59.0.
MOS Error ellipse: s-maj=14.3km s-min=7.4km az=109.1.
IDC II 26 11 17 18.1–1.8 1.80N 124.54E 0 3.5,3.2
¶17192903
IDC Error ellipse: s-maj=193.7km s-min=24.7km az=64.0.
ISC II 27 03 03 26.1–.70 0.27N–.06 122.19E–.05 183–6 3.9b 39 0-120
ISCJB II 27 03 03 25.6–.37 0.25N–.05 122.19E–.04 186–3 3.9b ¶17192931
DJA II 27 03 03 28.5–.50 0N–4.0 122E–2.0 156–4 5.0b,4.3
IDC II 27 03 03 29.0–3.7 0.14N 122.16E 212–36 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.7km az=176.0.
IDC Error ellipse: s-maj=59.5km s-min=11.3km az=61.0.
DJA III 01 09 39 14.9–.70 0S–4.0 124E–2.0 125–7 4.5,4.5
¶602002387
ISC III 04 03 09 38.3–.87 1.06N–.07 120.32E–.07 32 4.3b 20 1-61
DJA III 04 03 09 38.6–.50 1N–4.0 120E–3.0 10 4.4,4.3 ¶16339067
IDC III 04 03 09 43.7–7.8 1.13N 120.67E 82–81 4.2,4.0L
NEIC III 04 03 09 45.0–1.2 1.02N 120.46E 96–12 4.3b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=116.0km s-min=17.0km az=62.0.
NEIC Event type se. Error ellipse: s-maj=22.8km s-min=9.4km az=66.0.
ISC III 04 16 45 08.6–1.0 0.84S–.06 119.56E–.06 10 3.0b 14 0-58
ISCJB III 04 16 45 07.7–.70 0.84S–.07 119.50E–.06 10 3.0b ¶17193244
DJA III 04 16 45 08.7–.40 1S–4.0 120E–3.0 10 3.6,3.6
IDC III 04 16 45 09.0–1.7 0.84S 120.21E 0 3.3,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.5km az=152.9.
IDC Error ellipse: s-maj=82.4km s-min=27.5km az=65.0.
ISC III 05 09 18 44.7–.59 0.56N–.07 123.60E–.05 264 3.8b 31 0-74
ISCJB III 05 09 18 43.7–.38 0.68N–.06 123.56E–.04 264 3.8b ¶17193274
IDC III 05 09 18 44.4–2.5 0.62N 123.47E 261–25 4.2,3.6
DJA III 05 09 18 48.6–.90 0N–9.0 124E–3.0 228–9 4.2b,4.1

ISC Event type ke.
ISCJB Event type ke.
ISC III 08 12 55 31.4–2.7 0.3S–.10 119.2E–.10 35 3.4b 11 2-57
DJA III 08 12 55 33.2–.90 0S–8.0 120E–5.0 10 4.3b,4.2 **¶17193468**
IDC III 08 12 55 34.2–1.3 0.73S 120.38E 0 3.6,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=75.1km s-min=21.6km az=68.0.
ISC III 08 13 21 37.2–1.0 0.65S–.07 119.65E–.07 10 3.6b 19 2-81
ISCJB III 08 13 21 36.9–.61 0.71S–.06 119.67E–.06 10 3.8s,3.6b **¶17193469**
DJA III 08 13 21 36.5–.60 1S–5.0 120E–4.0 10 4.2b,4.1
IDC III 08 13 21 36.8–.85 0.74S 120.12E 0 3.8L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=8.1km az=177.4.
IDC Error ellipse: s-maj=74.6km s-min=15.9km az=66.0.
IDC III 09 12 55 17.2–1.4 0.22N 121.62E 0 3.6,3.4b
¶603310069
IDC Error ellipse: s-maj=196.9km s-min=23.5km az=60.0.
IDC III 11 00 52 51.8–1.8 1.67N 123.12E 0 4.0s,4.0
¶17193667
IDC Error ellipse: s-maj=218.4km s-min=27.1km az=62.0.
ISC III 13 13 05 26.1–.55 0.35N–.08 121.7E–.10 450 3.8b 42 0-128
ISCJB III 13 13 05 25.1–.36 0.40N–.06 121.62E–.06 450 3.8b **¶17194878**
DJA III 13 13 05 26.5–.50 0N–6.0 122E–4.0 443–7 4.6b,4.5b
IDC III 13 13 05 26.2–1.2 0.37N 121.76E 454–13 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.4km az=139.6.
IDC Error ellipse: s-maj=31.6km s-min=7.7km az=65.0.
DJA III 15 15 44 08.9–1.3 1N–17 122E–12 31–15 3.7,3.7
¶602003093
ISC III 18 18 10 25.3–.49 0.08S–.04 123.51E–.04 142–4 4.3b 142 1-126
BJI III 18 18 10 24.7 0.00N 123.50E 137 4.8b,4.6b **¶16411006**
ISCJB III 18 18 10 24.8–.28 0.04S–.03 123.52E–.02 152–3 4.3b,4.6b
NEIC III 18 18 10 26.6–.91 0.09S 123.50E 158–9 4.5b,4.6b
DJA III 18 18 10 28.4–.30 0S–3.0 123E–2.0 113–4 4.8b,4.8
IDC III 18 18 10 29.9–2.1 0.02N 123.45E 188–20 4.2,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=22.9.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=52.0.
IDC Error ellipse: s-maj=19.4km s-min=9.0km az=70.0.
ISC III 19 07 35 14.9–.78 0.33N–.07 124.46E–.05 116 3.8b 23 1-63
IDC III 19 07 35 00.5–.81 0.46N 124.40E 0 4.1L,4.0 **¶17197156**
DJA III 19 07 35 15.6–.70 0N–6.0 124E–2.0 124–7 5.0b,4.6b
ISC Event type ke.
ISC III 21 11 49 21.6–.74 0.67S–.07 119.85E–.06 45 4.0b 26 0-118
IDC III 21 11 49 15.6–.80 0.50S 120.22E 0 4.1,4.0 **¶16479968**
DJA III 21 11 49 17.3–.30 1S–3.0 120E–2.0 10 4.2b,4.1
ISCJB III 21 11 49 19.4–.47 0.71S–.06 119.78E–.05 45 3.9b,2.7s
NEIC III 21 11 49 21.2–1.4 0.66S 120.00E 39–14 4.0b,2.7s
ISC Event type fe.
IDC Error ellipse: s-maj=57.9km s-min=14.1km az=67.0.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=6.6km az=0.4.
NEIC Event type fe. Error ellipse: s-maj=16.0km s-min=9.9km az=72.0. Felt [III] at Palu.
DJA III 21 12 22 06.4–.80 1N–6.0 122E–5.0 62–6 3.5,3.4
¶602003349
DJA III 21 12 54 24.5–.40 1S–9.0 122E–2.0 11–8 2.9,2.9
¶602003348
IDC III 21 20 00 17.9–29 1.62N 124.04E 561–118 4.2,3.4
¶17197748
IDC Error ellipse: s-maj=361.1km s-min=77.0km az=169.0.
DJA III 22 12 56 48.0–.90 0N–3.0 120E–2.0 16–10 4.3b,4.2
¶602003390
DJA III 22 23 53 15.5–.60 1S–4.0 120E–4.0 10 3.7,3.7
¶602003388
IDC III 25 17 31 44.1–1.2 0.12N 121.74E 0 3.7,3.5
¶17198534
IDC Error ellipse: s-maj=141.5km s-min=20.8km az=64.0.
IDC III 27 17 33 17.1–1.8 1.98N 123.98E 0 3.5,3.2
¶17198817
IDC Error ellipse: s-maj=203.8km s-min=24.5km az=63.0.
IDC III 28 02 50 00.1–1.8 1.37N 124.00E 0 3.4,3.2
¶17198891
IDC Error ellipse: s-maj=195.2km s-min=24.9km az=63.0.
ISC III 28 04 36 23.3–.87 0.34N–.08 122.0E–.10 174–7 3.9b 16 0-119
ISCJB III 28 04 36 22.1–.66 0.35N–.08 122.0E–.10 179–5 3.9b **¶17198904**
DJA III 28 04 36 24.5–1.0 0N–5.0 122E–7.0 160–7 3.5,3.5
IDC III 28 04 36 26.7–4.4 0.17N 121.85E 210–46 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=11.5km az=165.5.
IDC Error ellipse: s-maj=67.1km s-min=12.6km az=61.0.
ISC III 28 08 11 55.1–1.4 1.5N–.10 123.44E–.09 32 3.2b 10 2-58
IDC III 28 08 11 49.6–2.0 1.86N 124.10E 0 3.4,3.3 **¶17198921**
DJA III 28 08 11 52.4–1.2 2N–9.0 123E–5.0 10 4.9b,4.8b
ISCJB III 28 08 11 52.3–1.2 1.67N–.09 123.46E–.08 32 3.1b,4.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 18 47 28.4–.64 1.03N–.06 122.41E–.06 51 4.4b 38 1-120
ISCJB III 28 18 47 26.7–.34 1.05N–.03 122.45E–.04 51 3.8b,3.2s **¶16374440**
DJA III 28 18 47 27.7–.60 1N–3.0 122E–2.0 24–6 5.2b,4.9b
IDC III 28 18 47 30.4–2.5 0.92N 122.63E 75–24 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.7km az=163.6.
IDC Error ellipse: s-maj=28.1km s-min=13.1km az=82.0.
ISC III 29 06 52 48.8–.93 0.08S–.07 123.22E–.07 35 3.8b 14 1-93
IDC III 29 06 52 42.7–1.1 0.09N 123.52E 0 4.0L,3.9 **¶17199041**
DJA III 29 06 52 52.2–1.6 0S–8.0 123E–6.0 32–22 4.1b,4.1
ISC Event type ke.
IDC IV 04 11 48 02.0–26 0.99N 120.75E 0 4.0,3.9
¶17199764
IDC Error ellipse: s-maj=452.4km s-min=76.5km az=139.0.
DJA IV 05 12 04 53.4–2.7 0S–6.0 120E–5.0 30–33 4.1,4.1
¶602003854
DJA IV 06 00 00 58.0–.60 0S–5.0 123E–5.0 75–10 3.9b,3.7
¶602003870
IDC IV 06 13 25 06.1–1.9 1.93N 124.88E 0 3.4,3.2
¶17200008
IDC Error ellipse: s-maj=202.9km s-min=24.8km az=64.0.
DJA IV 07 03 35 10.2–1.1 1N–6.0 119E–6.0 10 4.0,4.0
¶602003898
ISC IV 08 04 33 45.3–1.3 0.6S–.10 121.73E–.09 100 4.0b 13 0-58
DJA IV 08 04 33 31.6–2.6 1N–36 121E–8.0 34–26 4.2b,4.0 **¶16529577**
IDC IV 08 04 33 32.9–1.4 0.05S 122.63E 0 4.2,4.0
ISCJB IV 08 04 33 43.8–1.2 0.5S–.10 121.8E–.10 100 3.9b,4.0
NEIC IV 08 04 33 46.8–1.5 0.59S 121.88E 121–11 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=42.9km s-min=21.7km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=15.4km az=156.7.
NEIC Event type se. Error ellipse: s-maj=24.8km s-min=20.7km az=71.0.
DJA IV 08 10 06 52.0–2.0 0N–9.0 122E–15 167–19 3.6,3.6
¶602003919
ISC IV 10 12 20 29.9–.48 0.24N–.07 122.12E–.08 202 4.1b 55 0-127
ISCJB IV 10 12 20 28.6–.26 0.33N–.04 122.15E–.04 202 4.0b **¶16706282**
DJA IV 10 12 20 31.9–.30 0N–4.0 122E–2.0 171–5 4.9b,4.4
IDC IV 10 12 20 31.2–1.6 0.25N 122.15E 220–15 4.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.2km az=148.4.
IDC Error ellipse: s-maj=15.7km s-min=7.7km az=77.0.
DJA IV 13 18 17 28.7–.30 1S–3.0 123E–2.0 10 4.4b,3.9
¶602003979
IDC IV 13 18 27 00.4–1.9 1.74N 124.69E 0 3.6,3.4
¶17200927
IDC Error ellipse: s-maj=186.6km s-min=25.3km az=64.0.

IDC IV 14 11 42 46.8–1.2 0.59N 124.18E 0 3.7,3.7L
¶17201018
IDC Error ellipse: s-maj=84.3km s-min=17.3km az=63.0.
IDC IV 21 22 00 37.3–1.6 0.54N 123.94E 0 3.7,3.6
¶17201751
IDC Error ellipse: s-maj=84.3km s-min=28.6km az=69.0.
IDC IV 22 00 18 54.3–1.1 0.96N 122.56E 0 4.0L,3.8
¶17201761
IDC Error ellipse: s-maj=117.1km s-min=19.2km az=67.0.
IDC IV 22 11 28 21.0–1.1 0.87N 121.45E 0 3.6,3.5
¶17201808
IDC Error ellipse: s-maj=234.6km s-min=20.2km az=62.0.
ISC IV 27 00 44 12.5–.98 0.78S–.08 120.5E–.10 49 3.3b 13 2-58
IDC IV 27 00 44 06.8–1.1 0.73S 120.46E 0 3.8L,3.7 **¶17202198**
DJA IV 27 00 44 07.3–.50 1S–6.0 121E–8.0 10 4.1,4.1
ISCJB IV 27 00 44 10.2–.78 0.79S–.06 120.55E–.10 49 3.4b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC IV 28 10 53 57.5–8.9 1.40N 124.60E 0 3.7,3.6
¶17202295
IDC Error ellipse: s-maj=193.3km s-min=137.4km az=65.0.
IDC IV 29 08 02 44.8–7.7 0.11N 123.69E 135–94 3.8,3.5
¶17202364
IDC Error ellipse: s-maj=82.9km s-min=20.3km az=77.0.
ISC IV 29 20 22 41.5–1.2 0.9N–.10 122.4E–.30 51 3.5b 8 6-62
IDC IV 29 20 22 34.7–.93 1.03N 122.62E 0 3.8,3.7L **¶17202413**
ISCJB IV 29 20 22 39.4–.85 0.9N–.10 122.3E–.20 51 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
IDC IV 30 05 40 07.5–1.7 0.71N 121.99E 0 3.8,3.7L
¶17202438
IDC Error ellipse: s-maj=137.2km s-min=25.3km az=63.0.
ISC V 01 05 31 43.5–.90 0.1N–.10 124.7E–.10 73 3.7b 12 7-122
ISCJB V 01 05 31 41.4–.81 0.16N–.08 124.6E–.10 73 3.7b **¶17202502**
IDC V 01 05 31 42.5–5.2 0.16N 124.67E 64–47 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=10.8km az=21.2.
IDC Error ellipse: s-maj=40.0km s-min=16.1km az=60.0.
IDC V 03 10 39 02.1–11 1.03N 124.70E 81–101 3.5,3.4
¶17202669
IDC Error ellipse: s-maj=179.5km s-min=24.5km az=63.0.
IDC V 03 14 07 02.9–1.7 1.53N 124.64E 0 3.5,3.3
¶17202682
IDC Error ellipse: s-maj=189.1km s-min=23.5km az=63.0.
IDC V 03 18 21 44.5–1.1 0.59S 121.66E 0 3.6,3.6L
¶17202703
IDC Error ellipse: s-maj=41.8km s-min=18.6km az=70.0.
ISC V 04 16 52 30.6–1.5 1.9N–.20 121.8E–.40 35 3.2b 7 1-56
IDC V 04 16 52 24.1–2.0 2.70N 123.36E 0 3.6,3.4 **¶17202772**
DJA V 04 16 52 36.5–1.5 1N–4.0 121E–4.0 35–18 5.6b,4.5
ISC Event type ke.
IDC V 04 20 36 53.0–1.7 1.84N 124.68E 0 3.6,3.4
¶17202792
IDC Error ellipse: s-maj=190.8km s-min=23.3km az=63.0.
ISC V 06 06 46 25.3–.30 0.11S–.02 122.86E–.03 101–2 5.6b 1511 1-177
BJI V 06 06 46 22.6 0.10S 123.00E 82 5.5b,5.5b **¶16497787**
NEIC V 06 06 46 23.5–.08 0.07S 122.95E 82 5.8b,5.5W
NEIC V 06 06 46 23.0–.00 0.33S 122.91E 85 5.8b,5.5W
GCMT V 06 06 46 23.5–.10 0.05S 122.89E 92–0 5.5W,5.5W
IDC V 06 06 46 24.0–1.3 0.09S 122.84E 90–11 5.3,5.0
ISCJB V 06 06 46 24.5–.25 0.14S–.01 122.96E–.02 109–2 5.5b,5.0
MOS V 06 06 46 25.5–1.3 0.03S 122.89E 114 5.5b,4.3s
KLM V 06 06 46 25.1 0.32S 122.90E 86 6.3s,5.7b
DJA V 06 06 46 26.0–.20 0S–2.0 123E–1.0 91–2 6.4,6.0b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gorontalo and [III] at Luwuk and Manado. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.43 $M_{\phi\phi}$-1.22 $M_{r\theta}$0.07 $M_{\theta\phi}$-1.01 $M_{\phi r}$-1.48 Best double couple: NP1:ϕ_s192.00000°,δ66.00000°,λ69.00000°. NP2:ϕ_s56.00000°,δ32.00000°,λ129.00000°. Principal axes: T 2.3600,Plg63.0000°,Azm67.0000°; N -0.0600,Plg19.0000°,Azm201.0000°; P -2.2900,Plg18.0000°,Azm298.0000° M_o2.30000×10^{17}
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}1.65 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-1.46 $M_{r\theta}$-0.14 $M_{\theta\phi}$-1.10 $M_{\phi r}$-0.94 Best double couple: NP1:ϕ_s198.00000°,δ59.00000°,λ76.00000°. NP2:ϕ_s44.00000°,δ34.00000°,λ112.00000°. Principal axes: T 1.9300,Plg72.0000°,Azm73.0000°; N 0.3600,Plg12.0000°,Azm205.0000°; P -2.2900,Plg12.0000°,Azm298.0000° M_o2.10000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c219; s127,c269;Duration: 1s4 Moment tensor: Scale 10^{17} Nm; M_{rr}1.67±.02 $M_{\theta\theta}$-0.44±.02; $M_{\phi\phi}$-1.23±.03; $M_{r\theta}$0.12±.02; $M_{\theta\phi}$-1.29±.02; $M_{\phi r}$-0.97±.02; Best double couple: NP1:ϕ_s195.00000°,δ59.00000°,λ64.00000°. NP2:ϕ_s59.00000°,δ40.00000°,λ126.00000°. Principal axes: T 2.0820,Plg65.0000°,Azm58.0000°; N 0.2330,Plg22.0000°,Azm210.0000°; P -2.3170,Plg11.0000°,Azm304.0000° M_o2.19900×10^{17}
ISCJB Event type fe.
ISC V 08 01 48 06.2–.71 0.64N–.05 124.53E–.06 153–7 4.5b 120 2-103
ISCJB V 08 01 48 04.7–.50 0.68N–.03 124.55E–.03 153–5 4.5b **¶16577233**
DJA V 08 01 48 05.8–.90 1N–8.0 125E–4.0 154–26 5.2b,4.8
NEIC V 08 01 48 06.4–.51 0.66N 124.52E 157–5 4.5b,4.8
IDC V 08 01 48 07.0–2.0 0.65N 124.38E 155–18 4.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=136.4.
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=58.0.
IDC Error ellipse: s-maj=18.7km s-min=8.7km az=86.0.
IDC V 12 00 01 59.3–1.2 0.61N 122.21E 0 3.9,3.9L
¶17203440
IDC Error ellipse: s-maj=116.0km s-min=19.4km az=67.0.
ISC V 14 03 21 33.2–1.1 0.13N–.09 122.93E–.06 200 3.8b 13 1-120
IDC V 14 03 21 11.0–2.9 0.33N 122.25E 0 4.1,3.9b **¶17203583**
ISCJB V 14 03 21 31.2–.82 0.3N–.10 122.81E–.08 200 3.6b,3.9b
DJA V 14 03 21 35.8–.80 0S–5.0 123E–4.0 151–7 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC V 16 01 26 06.5–9.6 1.25N 124.04E 0 4.3,4.1b
¶17203716
IDC Error ellipse: s-maj=206.2km s-min=150.1km az=63.0.
ISC V 21 07 50 18.2–1.4 1.5N–.10 124.0E–.20 35 3.7b 10 1-121
IDC V 21 07 50 12.8–1.4 1.57N 124.04E 0 4.1L,4.0 **¶17204119**
DJA V 21 07 50 21.1–2.5 1N–22 123E–6.0 10 5.1b,4.7b
ISC Event type ke.
IDC V 23 05 59 03.2–1.9 0.01N 124.88E 0 3.8,3.6
¶17204286
IDC Error ellipse: s-maj=194.0km s-min=26.5km az=63.0.
IDC V 26 10 19 46.0–9.6 0.17N 121.28E 75–125 3.9,3.7
¶17204498
IDC Error ellipse: s-maj=258.5km s-min=65.3km az=109.0.
ISC V 27 05 39 30.3–.34 1.50N–.03 123.97E–.03 284–3 5.0b 539 1-170
BJI V 27 05 39 25.2 0.96N 124.07E 285 4.7b,4.6b **¶16549383**
ISCJB V 27 05 39 29.5–.21 1.53N–.02 123.97E–.02 290–2 4.9b,4.6b
DJA V 27 05 39 30.8–.20 1N–3.0 124E–2.0 263–2 5.5b,5.3
GCMT V 27 05 39 30.6–.30 1.54N 124.01E 268–2 5.1W,5.3
MOS V 27 05 39 30.0–.98 1.61N 123.90E 298 5.0b,5.3
NEIC V 27 05 39 30.6–.43 1.55N 123.90E 286–4 5.1b,5.3
IDC V 27 05 39 31.1–.65 1.59N 123.94E 291–6 5.1,4.5
KLM V 27 05 39 33.4 1.45N 123.75E 289 6.1s,5.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.6km az=150.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c43; s67,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.08±.21 $M_{\theta\theta}$0.74±.22; $M_{\phi\phi}$-0.65±.24; $M_{r\theta}$-0.49±.21; $M_{\theta\phi}$3.24±.14; $M_{\phi r}$-5.05±.21; Best double couple: NP1:ϕ_s6.00000°,δ90.00000°,λ-123.00000°. NP2:ϕ_s275.00000°,δ33.00000°,λ-1.00000°. Principal axes: T 6.0380,Plg36.0000°,Azm125.0000°; N 0.0460,Plg33.0000°,Azm7.0000°

; P -6.0830,Plg37.0000°,Azm247.0000° M6.06000×10^16
MOS Error ellipse: s-maj=10.9km s-min=5.2km az=120.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=58.0.
IDC Error ellipse: s-maj=9.4km s-min=6.6km az=69.0.
IDC V 27 16 09 54.5–1.7 0.53N 123.86E 0 3.9,3.7
¶17204577

IDC Error ellipse: s-maj=57.4km s-min=26.8km az=63.0.
DJA V 27 19 44 40.0–1.1 1S–7.0 120E–11 53–7 3.7,3.7
¶602004399

IDC V 29 03 18 10.4–1.5 0.91N 123.62E 0 3.9L,3.8
¶17204668

IDC Error ellipse: s-maj=56.3km s-min=24.1km az=65.0.
ISC V 29 16 19 48.5–1.5 0.5N–.10 124.96E–.06 10 3.5b 10 3-59
DJA V 29 16 19 48.5–.80 0N–8.0 125E–4.0 10 3.9,3.9 **¶17204709**
IDC V 29 16 19 55.7–1.7 0.11S 125.38E 0 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=183.7km s-min=23.3km az=63.0.
DJA V 30 05 28 22.8–.60 0N–3.0 124E–2.0 15–5 3.6,3.6
¶602004424

IDC V 31 10 48 43.0–8.8 0.05S 123.00E 170–83 3.8,3.4
¶17204826

IDC Error ellipse: s-maj=113.0km s-min=18.8km az=57.0.
DJA VI 01 04 20 49.0–.90 0N–8.0 125E–6.0 87–12 3.9,3.9
¶602004438

DJA VI 03 11 08 07.2–.40 0S–3.0 123E–2.0 52–8 4.8b,4.5b
¶602004458

ISC VI 03 18 59 37.0–.54 0.48S–.04 121.96E–.04 49 4.3b 40 1-87
IDC VI 03 18 59 31.4–1.6 0.47S 122.08E 0 3.9L,3.5 **¶16856206**
ISCJB VI 03 18 59 35.6–.39 0.50S–.05 122.01E–.06 49 4.2b,3.5
DJA VI 03 18 59 36.3–.30 0S–2.0 122E–3.0 10 4.2b,4.0
NEIC VI 03 18 59 37.1–.78 0.68S 121.92E 48–8 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=59.2km s-min=25.3km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.0km az=151.1.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=7.7km az=48.0.
IDC VI 04 14 21 49.8–6.4 0.36N 122.80E 137–62 3.5,3.2
¶17205216

IDC Error ellipse: s-maj=83.7km s-min=16.0km az=63.0.
ISC VI 04 19 45 10.0–.42 0.02N–.05 124.40E–.04 73 4.4b 71 2-93
ISCJB VI 04 19 45 08.5–.26 0.08N–.03 124.35E–.03 73 4.4b **¶16577392**
NEIC VI 04 19 45 11.0–.93 0.02N 124.34E 86–10 4.6b
IDC VI 04 19 45 11.5–2.5 0.03N 124.34E 87–26 4.1,3.9
DJA VI 04 19 45 13.0–.40 0S–4.0 124E–2.0 97–16 5.0b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 05 13 34 28.3–1.8 1.0N–.20 121.81E–.08 44 3.6b 22 1-57
ISCJB VI 05 13 34 27.9–.96 1.05N–.09 121.75E–.06 44 3.7b **¶17205327**
IDC VI 05 13 34 27.3–1.1 0.62N 122.57E 0 4.1L,4.0
DJA VI 05 13 34 28.5–.60 1N–3.0 122E–2.0 15–7 5.7b,5.2
ISC Event type ke.
ISCJB Event type ke.
IDC VI 06 07 29 32.2–1.0 0.53N 122.20E 0 4.4L,4.3
¶17205394

IDC Error ellipse: s-maj=109.8km s-min=17.3km az=66.0.
ISC VI 07 20 32 58.9–.98 0.0S–.10 123.5E–.20 157 3.7b 10 6-59
ISCJB VI 07 20 32 57.1–.96 0.01S–.09 123.5E–.10 157 3.6b **¶17205512**
IDC VI 07 20 32 57.3–5.2 0.03N 123.57E 139–48 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=11.7km az=21.2.
IDC Error ellipse: s-maj=48.2km s-min=15.9km az=61.0.
ISC VI 09 02 38 01.5–.66 0.73N–.07 124.0E–.10 218 3.6b 18 7-126
ISCJB VI 09 02 37 59.3–.61 0.84N–.06 123.9E–.10 218 3.4b **¶17205586**
IDC VI 09 02 38 03.1–.82 0.69N 123.78E 242–8 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=8.4km az=5.6.
IDC Error ellipse: s-maj=23.1km s-min=8.2km az=78.0.
ISC VI 09 11 58 51.4–.73 0.12S–.08 122.99E–.08 50 4.2b 23 1-80
ISCJB VI 09 11 58 50.5–.64 0.00S–.07 122.97E–.06 50 4.2b **¶17205621**
IDC VI 09 11 58 53.4–3.7 0.19S 122.95E 76–36 4.3,4.1
DJA VI 09 11 58 56.8–.30 0S–3.0 123E–3.0 58–10 4.9b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 10 10 49 21.9–.47 1.72N–.06 122.59E–.09 450 3.9b 52 1-126
ISCJB VI 10 10 49 20.9–.34 1.76N–.04 122.63E–.06 450 3.9b **¶17205700**
KLM VI 10 10 49 20.1 1.69N 122.85E 476 5.1s,4.4b
IDC VI 10 10 49 22.1–1.5 1.72N 122.54E 454–17 4.4,3.6
DJA VI 10 10 49 23.3–.40 2N–6.0 122E–4.0 447–4 4.5b,4.5b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 10 19 53 11.2–1.8 0.88N 124.05E 0 3.5,3.3
¶17205728

IDC Error ellipse: s-maj=200.8km s-min=26.0km az=63.0.
ISC VI 12 01 25 44.8–.50 0.01N–.05 123.12E–.05 162 4.0b 39 1-127
ISCJB VI 12 01 25 43.5–.37 0.07N–.04 123.12E–.04 162 4.0b **¶17205807**
IDC VI 12 01 25 46.7–2.3 0.01S 123.05E 183–23 4.1,3.8
DJA VI 12 01 25 48.5–.60 0S–5.0 123E–2.0 111–9 6.4,6.4
ISC Event type ke.
ISCJB Event type ke.
ISC VI 13 08 40 24.0–.42 0.28S–.04 119.99E–.05 45 4.4b,3.7s 89 1-99
BJI VI 13 08 40 13.7 0.75S 120.03E 8 4.8b,4.7b **¶16591910**
DJA VI 13 08 40 18.5–.40 0S–3.0 120E–3.0 10 5.4b,5.4b
ISCJB VI 13 08 40 21.7–.25 0.30S–.03 119.98E–.04 45 4.4b,3.7s
IDC VI 13 08 40 21.5–7.1 0.21S 120.07E 33–56 4.3,4.3L
NEIC VI 13 08 40 22.6–1.1 0.25S 120.01E 38–11 4.5b,4.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.3km az=154.3.
IDC Error ellipse: s-maj=29.7km s-min=12.6km az=79.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=6.2km az=68.0.
IDC VI 14 04 36 59.0–1.6 1.64N 124.16E 0 3.7,3.5
¶17206086

IDC Error ellipse: s-maj=192.1km s-min=23.2km az=63.0.
IDC VI 14 18 35 04.9–6.5 1.58N 122.89E 0 4.1L,4.0
¶17206131

IDC Error ellipse: s-maj=137.5km s-min=99.0km az=82.0.
IDC VI 15 21 07 10.5–2.1 0.55S 123.44E 0 3.3,3.2
¶17206201

IDC Error ellipse: s-maj=426.2km s-min=26.4km az=62.0.
IDC VI 16 17 25 46.2–1.6 0.95S 122.45E 0 4.3L,3.9
¶17206336

IDC Error ellipse: s-maj=41.3km s-min=26.1km az=70.0.
IDC VI 20 09 10 58.4–13 0.39N 123.41E 260–138 4.1,3.6
¶17206586

IDC Error ellipse: s-maj=131.5km s-min=21.9km az=56.0.
ISC VI 21 04 08 51.6–.77 0.30N–.07 122.10E–.05 180–6 4.0b 24 0-127
ISCJB VI 21 04 08 50.9–.47 0.34N–.07 122.06E–.06 184–4 4.0b **¶17206650**
DJA VI 21 04 08 53.1–.60 0N–5.0 122E–3.0 166–5 4.7b,4.4b
IDC VI 21 04 08 55.9–3.5 0.18N 122.02E 219–33 4.2,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=9.0km az=165.9.
IDC Error ellipse: s-maj=61.0km s-min=14.1km az=69.0.
ISC VI 22 00 06 00.3–.63 0.16N–.09 121.6E–.20 250 3.8b 18 5-128
ISCJB VI 22 00 05 58.8–.50 0.20N–.07 121.6E–.10 250 3.8b **¶17206710**
IDC VI 22 00 05 59.6–2.3 0.20N 121.60E 240–24 4.1,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=9.7km az=171.5.
IDC Error ellipse: s-maj=21.0km s-min=11.2km az=73.0.
ISC VI 25 06 47 47.2–.98 0.32S–.06 123.77E–.05 100 3.4b 15 1-64
ISCJB VI 25 06 47 45.1–.61 0.38S–.05 123.78E–.05 100 3.3b **¶17206909**
DJA VI 25 06 47 45.5–.50 0S–4.0 124E–3.0 100–10 5.3b,4.8b
IDC VI 25 06 47 55.7–9.1 0.47S 123.08E 169–92 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.8km az=14.1.
IDC Error ellipse: s-maj=88.5km s-min=19.2km az=53.0.
DJA VI 26 17 10 07.3–.40 1S–3.0 120E–3.0 54–10 4.8b,4.4
¶602004643

IDC VI 27 10 50 14.4–7.2 0.00N 123.08E 168–65 3.7,3.4
¶17207066

IDC Error ellipse: s-maj=112.0km s-min=24.0km az=63.0.
DJA VI 28 17 19 00.3–.60 0N–4.0 124E–3.0 89–9 3.6,3.6
¶602004660

ISC VI 29 00 04 01.7–.58 0.09S–.05 122.94E–.05 162 3.9b 34 1-127
ISCJB VI 29 00 04 00.4–.44 0.05S–.05 122.88E–.04 162 3.9b **¶17207157**
IDC VI 29 00 04 01.8–1.8 0.10S 122.91E 160–15 4.1,3.9
DJA VI 29 00 04 02.9–.40 0S–4.0 123E–2.0 132–6 5.4b,4.9
ISC Event type ke.
ISCJB Event type ke.

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ISC I 03 01 34 16.6–.45 1.20N–.06 126.47E–.05 39 4.3b 55 1-123
DJA I 03 01 34 04.1–2.7 2N–4.0 127E–4.0 22–34 5.0b,4.7b **¶15961491**
ISCJB I 03 01 34 15.2–.29 1.27N–.04 126.49E–.03 39 4.3b,3.5s
NEIC I 03 01 34 17.2–.62 1.12N 126.50E 48–6 4.4b,3.5s
IDC I 03 01 34 17.5–1.9 1.12N 126.39E 48–19 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.4km az=19.8.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.2km az=222.0.
IDC Error ellipse: s-maj=13.9km s-min=11.2km az=78.0.
IDC I 03 05 19 36.0–2.0 2.55N 127.36E 0 3.5,3.3
¶17189296

IDC Error ellipse: s-maj=144.4km s-min=24.9km az=67.0.
ISC I 03 20 13 01.6–.89 0.47N–.06 125.92E–.05 44 3.9b 23 1-64
IDC I 03 20 12 55.4–1.1 0.62N 126.27E 0 3.9,3.8 **¶16021245**
ISCJB I 03 20 12 59.9–.51 0.46N–.06 125.92E–.05 44 3.9b,3.8
DJA I 03 20 12 59.4–1.7 0N–4.0 126E–3.0 12–15 3.8,3.8
NEIC I 03 20 13 00.1–.73 0.56N 126.33E 35 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=49.5km s-min=17.8km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.3km az=32.4.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=12.9km az=101.0.
IDC I 04 00 19 27.6–1.8 1.97N 126.05E 0 3.9,3.7
¶17189372

IDC Error ellipse: s-maj=116.9km s-min=22.1km az=68.0.
ISC I 06 03 01 38.8–.65 1.29N–.04 126.44E–.04 56–6 4.9b,3.7s 253 1-159
BJI I 06 03 01 29.5 0.52N 126.59E 47 5.0b,4.8b **¶15906297**
MOS I 06 03 01 35.6–1.0 1.26N 126.26E 46 5.0b,4.8b
ISCJB I 06 03 01 37.4–.41 1.30N–.03 126.43E–.03 60–4 4.8b,3.6s
NEIC I 06 03 01 37.8–.65 1.30N 126.43E 51–6 4.9b,3.6s
DJA I 06 03 01 37.6–1.0 1N–3.0 126E–2.0 20–12 5.3b,4.9b
IDC I 06 03 01 39.0–1.9 1.24N 126.38E 61–16 4.7,4.5
ISC Event type fe.
MOS Error ellipse: s-maj=15.6km s-min=6.4km az=113.3.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=140.8.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=4.3km az=58.0. Felt [II] on Pulau Ternate, Indonesia.
IDC Error ellipse: s-maj=15.0km s-min=7.5km az=72.0.
ISC I 06 18 12 57.7–.78 0.74N–.06 125.90E–.04 100 3.9b 24 1-60
IDC I 06 18 12 46.9–.95 1.05N 126.04E 0 4.0,3.9 **¶17189603**
DJA I 06 18 12 55.5–.40 1N–4.0 126E–2.0 10 4.0,4.0
ISCJB I 06 18 12 56.1–.49 0.78N–.05 125.87E–.04 100 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 09 00 15 28.0–2.1 1.02N 126.58E 0 3.6,3.4
¶17189729

IDC Error ellipse: s-maj=179.6km s-min=25.2km az=66.0.
IDC I 09 00 35 14.4–2.2 2.28N 126.54E 0 3.3,3.1
¶17189730

IDC Error ellipse: s-maj=195.3km s-min=25.3km az=66.0.
ISC I 09 10 32 09.4–1.0 1.1N–.10 126.53E–.07 47 4.0b 12 1-81
IDC I 09 10 32 01.8–1.5 1.20N 126.67E 0 4.3,4.2 **¶17189754**
DJA I 09 10 32 11.5–3.3 1N–19 126E–11 11–43 4.9b,4.4
ISC Event type ke.
IDC I 09 17 08 38.8–2.0 2.29N 127.67E 0 3.6,3.4
¶17189779

IDC Error ellipse: s-maj=172.8km s-min=21.2km az=67.0.
ISC I 13 16 03 14.8–.74 2.9N–.10 126.7E–.20 63 4.1b 19 6-73
IDC I 13 16 03 07.1–.80 2.92N 126.47E 0 4.1,4.0 **¶16022168**
NEIC I 13 16 03 08.0–.63 2.97N 126.71E 10 4.5b,4.0
ISCJB I 13 16 03 12.8–.48 2.89N–.08 126.6E–.10 63 4.1b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 13 21 45 44.3–1.4 2.19N 127.25E 0 3.5,3.3
¶17190113

IDC Error ellipse: s-maj=142.8km s-min=20.6km az=70.0.
ISC I 14 04 37 10.8–.58 0.36N–.06 126.47E–.07 47 4.0b 29 1-124
IDC I 14 04 37 04.7–.65 0.36N 126.28E 0 4.0,3.9 **¶16002298**
ISCJB I 14 04 37 08.9–.39 0.36N–.04 126.38E–.06 47 4.0b,3.6s
DJA I 14 04 37 08.7–.50 0N–4.0 126E–3.0 10 4.3b,4.0
NEIC I 14 04 37 09.5–.44 0.35N 126.45E 35 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=13.7km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.6km az=164.6.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=8.3km az=65.0.
IDC I 14 07 46 42.2–.96 1.94N 126.44E 0 4.1,4.0b
¶17190144

IDC Error ellipse: s-maj=126.9km s-min=15.6km az=66.0.
ISC I 15 09 49 05.9–1.1 2.32N–.07 126.88E–.06 55 3.7b 20 1-84
IDC I 15 09 48 57.0–1.3 2.29N 126.40E 0 4.0,3.8 **¶17190237**
ISCJB I 15 09 49 05.5–1.0 2.35N–.08 126.87E–.05 55 3.8b,3.7s
DJA I 15 09 49 06.4–1.2 2N–5.0 127E–4.0 12–12 4.3b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 16 04 37 35.0–.90 1.45N–.06 125.92E–.05 100 3.9b 19 1-123
ISCJB I 16 04 37 34.9–.59 1.42N–.06 125.91E–.05 100 3.8b **¶17190298**
IDC I 16 04 37 35.0–4.9 1.24N 125.54E 100–45 3.8,3.7
DJA I 16 04 37 37.1–.50 1N–4.0 126E–2.0 58–11 5.3b,5.0b
ISC Event type ke.
ISCJB Event type ke.
IDC I 17 03 27 37.7–1.9 1.60N 126.94E 0 3.6,3.5
¶17190370

IDC Error ellipse: s-maj=176.8km s-min=22.1km az=67.0.
ISC I 17 14 21 24.7–.70 0.02N–.07 125.11E–.04 53 3.9b 33 2-122
IDC I 17 14 21 17.3–.68 0.26S 124.43E 0 4.1,4.0 **¶16009122**
ISCJB I 17 14 21 22.7–.44 0.03N–.06 125.04E–.04 53 4.0b,4.0
DJA I 17 14 21 22.5–.40 0N–6.0 125E–2.0 10 4.9b,4.7b
NEIC I 17 14 21 26.1–.99 0.10S 125.04E 73–10 4.4b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=76.7km s-min=14.2km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.4km az=15.9.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=10.1km az=60.0.
ISC I 17 17 24 25.4–.31 0.40N–.04 125.43E–.04 73 4.6b 165 2-154
MOS I 17 17 24 21.2–1.1 0.44N 125.33E 51 4.9b **¶15933574**
IDC I 17 17 24 22.6–2.0 0.43N 125.35E 47–19 4.5,4.3
BJI I 17 17 24 23.0 0.50N 125.50E 74 5.1b,4.8b
ISCJB I 17 17 24 23.2–.18 0.40N–.03 125.45E–.03 73 4.6b,4.8b
DJA I 17 17 24 25.1–.30 0N–4.0 125E–2.0 58–10 5.1b,5.1b
NEIC I 17 17 24 25.3–.82 0.42N 125.44E 76–8 4.6b,5.1b
KLM I 17 17 24 25.0 0.58N 125.61E 81 5.9s,4.9b
ISC Event type se.
MOS Error ellipse: s-maj=14.2km s-min=6.9km az=110.5.
IDC Error ellipse: s-maj=15.7km s-min=7.3km az=78.0.

ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=138.8.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.3km az=61.0.
IDC I 17 21 20 41.2–2.1 1.14N 125.97E 0 3.5,3.3
¶17190426

IDC Error ellipse: s-maj=183.0km s-min=26.7km az=65.0.
IDC I 19 01 22 36.7–1.2 1.98N 125.65E 0 3.7,3.6
¶17190519

IDC Error ellipse: s-maj=146.3km s-min=19.5km az=68.0.
ISC I 20 03 29 18.9–.58 0.35N–.05 126.45E–.05 47 4.2b 36 1-124
IDC I 20 03 29 12.9–.68 0.35N 126.24E 0 4.2,4.2b ¶16020103
ISCJB I 20 03 29 17.4–.34 0.39N–.04 126.42E–.04 47 4.2b,4.2b
NEIC I 20 03 29 17.5–.43 0.34N 126.29E 35 4.0b,4.2b
DJA I 20 03 29 18.4–1.6 0N–4.0 126E–4.0 32–23 4.0,4.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
DJA I 20 10 04 11.7–.80 0N–3.0 127E–4.0 26–13 4.8b,4.1
¶601989694
ISC I 20 15 27 02.8–.70 0.45N–.10 126.45E–.08 47 3.9b 16 1-124
IDC I 20 15 26 57.4–.87 0.46N 126.27E 0 4.0,3.9 ¶16151949
NEIC I 20 15 26 59.5–2.4 0.48N 126.36E 18–16 4.0b,3.9
ISCJB I 20 15 27 01.1–.59 0.46N–.08 126.44E–.06 47 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 20 19 42 17.8–.87 2.32N–.07 126.82E–.09 53 3.9b 18 2-59
IDC I 20 19 42 11.4–1.1 2.11N 126.48E 0 4.1,3.9 ¶17190643
DJA I 20 19 42 13.6–1.1 2N–8.0 127E–10 10 4.9b,4.8b
ISCJB I 20 19 42 16.1–.77 2.34N–.06 126.82E–.08 53 3.8b,4.8b
ISC Event type ke.
ISCJB Event type ke.
IDC I 20 23 00 45.2–2.1 2.53N 127.42E 0 3.6,3.3
¶17190647

IDC Error ellipse: s-maj=156.6km s-min=25.9km az=67.0.
ISC I 21 03 53 06.8–1.0 1.6N–.10 126.47E–.07 47 3.6b 10 1-87
IDC I 21 03 53 00.3–1.1 1.66N 126.75E 0 4.0L,3.8 ¶17190655
ISCJB I 21 03 53 05.3–.81 1.65N–.09 126.43E–.06 47 3.6s,3.5b
DJA I 21 03 53 05.6–1.7 0N–4.0 126E–5.0 19–24 3.3,3.3
ISC Event type ke.
ISCJB Event type ke.
IDC I 21 06 14 43.4–2.1 1.12N 126.45E 0 3.6,3.4
¶17190663

IDC Error ellipse: s-maj=181.5km s-min=26.2km az=65.0.
IDC I 21 07 40 16.0–2.1 0.60N 126.22E 0 3.5,3.3
¶17190666

IDC Error ellipse: s-maj=185.9km s-min=26.7km az=65.0.
IDC I 21 08 55 25.4–1.8 0.61N 126.21E 0 4.0,3.8
¶17190668

IDC Error ellipse: s-maj=176.2km s-min=23.7km az=64.0.
ISC I 21 17 37 42.3–1.1 0.61N–.05 125.26E–.04 98–19 3.1b 24 2-59
IDC I 21 17 37 28.4–1.8 0.69N 124.49E 0 3.6,3.4 ¶17190686
DJA I 21 17 37 39.6–.90 1N–2.0 125E–2.0 10–6 4.8b,4.2b
ISCJB I 21 17 37 41.1–.55 0.62N–.04 125.25E–.03 110–9 3.3b,4.2b
ISC Event type ke.
ISCJB Event type ke.
IDC I 22 02 03 18.6–1.9 1.47N 125.42E 0 4.2s,4.1
¶17190710

IDC Error ellipse: s-maj=183.1km s-min=25.1km az=64.0.
IDC I 22 13 00 03.6–2.1 0.59N 125.80E 0 3.3,3.1
¶17190745

IDC Error ellipse: s-maj=183.7km s-min=27.8km az=65.0.
DJA I 23 00 51 06.5–1.4 0N–8.0 125E–3.0 14–11 4.0,4.0
¶601989885

IDC I 23 19 46 33.8–1.3 1.31N 126.67E 0 3.8,3.7L
¶17190828

IDC Error ellipse: s-maj=100.6km s-min=18.1km az=68.0.
IDC I 25 16 00 42.8–2.0 1.23N 126.09E 0 3.3,3.2
¶17190970

IDC Error ellipse: s-maj=180.8km s-min=24.6km az=65.0.
IDC I 26 00 09 53.4–2.0 2.54N 127.22E 0 3.8,3.6
¶17190996

IDC Error ellipse: s-maj=157.2km s-min=25.1km az=65.0.
IDC I 26 06 09 06.3–2.0 2.86N 127.62E 0 3.9,3.7
¶17191012

IDC Error ellipse: s-maj=155.6km s-min=25.2km az=66.0.
IDC I 26 06 30 46.0–1.6 2.96N 127.74E 0 3.7,3.6
¶17191014

IDC Error ellipse: s-maj=92.0km s-min=22.9km az=63.0.
IDC I 26 06 59 13.6–1.5 2.91N 127.70E 0 3.9,3.7
¶17191015

IDC Error ellipse: s-maj=93.0km s-min=22.1km az=62.0.
IDC I 26 11 50 50.9–2.2 1.87N 126.51E 0 3.5,3.3
¶17191033

IDC Error ellipse: s-maj=182.5km s-min=26.3km az=66.0.
IDC I 29 06 31 18.5–1.6 2.02N 126.25E 0 3.8,3.8b
¶17191238

IDC Error ellipse: s-maj=105.5km s-min=22.4km az=67.0.
IDC I 29 11 50 56.2–2.2 2.50N 127.54E 0 3.4,3.2
¶17191256

IDC Error ellipse: s-maj=167.5km s-min=25.6km az=67.0.
IDC I 29 13 36 45.5–2.2 0.99N 126.38E 0 3.4,3.2
¶17191257

IDC Error ellipse: s-maj=186.5km s-min=27.7km az=65.0.
IDC I 31 05 28 34.0–2.2 1.47N 126.25E 0 3.7s,3.7
¶17191390

IDC Error ellipse: s-maj=202.7km s-min=25.3km az=65.0.
IDC I 31 13 05 17.0–8.4 2.67N 127.25E 0 3.6,3.4
¶17191408

IDC Error ellipse: s-maj=173.2km s-min=131.8km az=77.0.
IDC I 31 15 28 40.4–1.9 2.17N 127.67E 0 3.9,3.8
¶17191415

IDC Error ellipse: s-maj=165.5km s-min=21.7km az=66.0.
IDC II 01 09 55 01.6–1.5 2.35N 127.00E 0 4.0,3.8
¶17191471

IDC Error ellipse: s-maj=150.7km s-min=20.9km az=69.0.
IDC II 02 19 43 26.4–1.9 1.39N 126.06E 0 3.7,3.5b
¶17191555

IDC Error ellipse: s-maj=184.3km s-min=23.3km az=65.0.
ISC II 04 13 34 05.5–.65 2.27N–.07 126.90E–.10 47 4.0b,2.9s 25 2-91
IDC II 04 13 33 59.2–.62 2.13N 126.53E 0 4.0,4.0b ¶17191651
ISCJB II 04 13 34 03.6–.51 2.23N–.05 127.03E–.07 47 4.0b,3.4s
DJA II 04 13 34 13.5–1.8 2N–26 126E–16 20–32 4.8b,4.4b
ISC Event type ke.
ISCJB Event type ke.
ISC II 05 01 39 43.1–.51 2.17N–.07 126.85E–.07 63 4.1b 43 1-124
IDC II 05 01 39 35.2–.59 2.23N 126.71E 0 4.2s,4.2 ¶16158778
DJA II 05 01 39 39.8–1.9 3N–19 127E–8.0 10 5.1b,5.0b
ISCJB II 05 01 39 41.5–.34 2.25N–.05 126.80E–.05 63 4.1b,5.0b
NEIC II 05 01 39 41.7–1.1 2.24N 126.93E 49–11 4.3b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=34.7km s-min=12.8km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.1km az=135.4.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.9km az=57.0.
IDC II 06 18 10 38.2–1.9 0.61N 126.88E 0 3.8,3.6
¶17191816

IDC Error ellipse: s-maj=157.3km s-min=23.7km az=66.0.
IDC II 06 18 59 15.9–1.4 0.89N 125.68E 0 3.7,3.6
¶17191820

IDC Error ellipse: s-maj=100.8km s-min=23.5km az=61.0.
DJA II 08 16 29 23.3–1.8 1N–20 126E–6.0 10 4.1b,3.6
¶602001285

ISC II 09 19 10 33.3–.53 1.39N–.05 126.57E–.06 47 4.0b 38 1-123
ISCJB II 09 19 10 32.2–.44 1.47N–.04 126.51E–.04 47 4.0b,2.6s ¶17191957
DJA II 09 19 10 35.7–.80 1N–5.0 126E–3.0 17–12 4.9b,4.5b
IDC II 09 19 10 40.8–2.9 1.28N 126.20E 121–26 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.6km az=135.8.
IDC Error ellipse: s-maj=24.0km s-min=9.9km az=72.0.
IDC II 10 07 09 52.3–2.0 1.08N 126.28E 0 3.7,3.5
¶17191996

IDC Error ellipse: s-maj=183.9km s-min=25.2km az=65.0.
IDC II 10 07 47 44.9–2.0 0.63N 125.65E 0 3.6,3.4
¶17191997

IDC Error ellipse: s-maj=177.7km s-min=27.0km az=64.0.
ISC II 11 11 06 18.2–.29 2.42N–.03 126.40E–.05 55 4.7b,3.6s 219 2-160
MOS II 11 11 06 14.2–1.0 2.44N 126.28E 36 4.9b,3.6s ¶16020789
BJI II 11 11 06 14.5 1.88N 126.50E 80 5.1b,4.9s
ISCJB II 11 11 06 16.7–.17 2.50N–.02 126.46E–.03 55 4.7b,3.7s
DJA II 11 11 06 17.2–.50 3N–5.0 127E–4.0 10 5.3b,5.0b
NEIC II 11 11 06 20.0–.62 2.40N 126.41E 77–6 4.8b,5.0b
IDC II 11 11 06 20.0–1.9 2.39N 126.37E 76–16 4.6,4.3
KLM II 11 11 06 21.5 2.22N 126.43E 80 5.8s,5.0b
ISC Event type se.
MOS Error ellipse: s-maj=12.1km s-min=6.1km az=112.8.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.7km az=161.8.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.4km az=67.0.
IDC Error ellipse: s-maj=16.2km s-min=8.1km az=73.0.
IDC II 11 11 30 06.2–2.8 2.70N 126.83E 0 3.6,3.3
¶17192073

IDC Error ellipse: s-maj=271.8km s-min=25.4km az=66.0.
ISC II 12 11 55 26.4–.36 1.99N–.03 126.87E–.04 48–2 5.6b,5.3s 996 1-173
BJI II 12 11 55 22.2 1.81N 126.62E 39 5.6b,5.4b ¶16022042
IDC II 12 11 55 22.3–2.2 1.95N 126.83E 18–13 5.3,5.2
MOS II 12 11 55 23.3–1.2 2.06N 126.86E 33 5.9b,5.1s
ISCJB II 12 11 55 25.0–.30 2.01N–.02 126.86E–.02 53–2 5.6b,5.2s
GCMT II 12 11 55 24.8–.10 2.11N 126.89E 24–0 5.8W,5.2s
NEIC II 12 11 55 24.8–.11 1.99N 126.83E 35 5.7b,5.6W
KLM II 12 11 55 25.2 1.93N 127.04E 54 6.0s,5.7b
DJA II 12 11 55 25.4–.40 2N–4.0 127E–2.0 10 5.9b,5.8
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c186; s106,c228;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}2.88±.06 $M_{\theta\theta}$1.58±.05; $M_{\phi\phi}$-4.45±.05; $M_{r\theta}$-3.57±.15; $M_{\theta\phi}$-1.23±.04; $M_{\phi r}$-1.10±.13; Best double couple: NP1:ϕ_s226.00000°,δ69.00000°,λ129.00000°. NP2:ϕ_s340.00000°,δ43.00000°,λ32.00000°. Principal axes: T 5.8590,Plg50.0000°,Azm179.0000°; N -0.6780,Plg36.0000°,Azm30.0000°; P -5.1710,Plg15.0000°,Azm288.0000° M_o5.51500×10^{17}
NEIC Event type fe. Felt [II] at Manado, Indonesia. Also felt on Pulau Ternate. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}1.74 $M_{\theta\theta}$-1.25 $M_{\phi\phi}$-0.49 $M_{r\theta}$-1.10 $M_{\theta\phi}$-2.29 $M_{\phi r}$0.58 Best double couple: NP1:ϕ_s16.00000°,δ53.00000°,λ35.00000°. NP2:ϕ_s263.00000°,δ62.00000°,λ137.00000°. Principal axes: T 2.7800,Plg49.0000°,Azm225.0000°; N 0.4600,Plg41.0000°,Azm56.0000°; P -3.2400,Plg6.0000°,Azm321.0000° M_o3.00000×10^{17}
IDC II 12 12 31 00.8–1.3 1.90N 126.80E 0 3.8,3.6
¶17192115

IDC Error ellipse: s-maj=69.5km s-min=18.1km az=66.0.
IDC II 12 14 14 49.0–1.9 2.26N 127.42E 0 3.5,3.3
¶17192119

IDC Error ellipse: s-maj=109.3km s-min=23.6km az=69.0.
IDC II 12 17 34 59.0–9.1 2.07N 126.55E 0 4.0,3.8
¶17192121

IDC Error ellipse: s-maj=161.9km s-min=140.9km az=75.0.
IDC II 13 00 40 51.4–8.0 1.60N 126.52E 105–75 3.9,3.7
¶17192132

IDC Error ellipse: s-maj=71.2km s-min=19.1km az=65.0.
ISC II 14 06 10 24.9–.52 1.82N–.04 126.40E–.04 10 4.3b 37 1-123
IDC II 14 06 10 23.1–.62 1.84N 126.39E 0 4.3,4.2 ¶602001619
ISCJB II 14 06 10 26.8–.61 1.96N–.05 126.40E–.04 10 4.2b,4.2
DJA II 14 06 10 30.0–.50 2N–4.0 126E–4.0 10 5.1,5.1b
ISC Event type ke.
ISCJB Event type ke.
ISC II 16 23 23 46.3–.64 2.48N–.08 127.7E–.10 64 3.9b 20 2-86
IDC II 16 23 23 38.0–.85 2.53N 127.72E 0 3.9,3.9b ¶17192390
ISCJB II 16 23 23 43.7–.50 2.53N–.05 127.87E–.09 64 3.9b,3.9b
DJA II 16 23 24 02.9–.80 1N–8.0 127E–8.0 173–19 6.1b,5.8b
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 20 24 27.5–.69 2.4N–.10 126.8E–.20 55 3.9b 20 2-72
IDC II 17 20 24 20.5–.69 2.37N 126.70E 0 4.1,3.9 ¶16339758
ISCJB II 17 20 24 25.7–.48 2.38N–.07 126.7E–.20 55 4.0b,3.9
NEIC II 17 20 24 25.4–.42 2.41N 126.74E 35 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=35.8km s-min=13.6km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=22.6km s-min=8.2km az=161.1.
NEIC Event type se. Error ellipse: s-maj=20.9km s-min=6.9km az=69.0.
ISC II 19 13 07 51.6–1.0 1.0N–.20 126.5E–.10 10 3.5b 7 1-64
DJA II 19 13 07 47.0–2.5 1N–11 127E–15 140–23 3.0,3.0 ¶17192536
ISCJB II 19 13 07 49.8–1.0 1.0N–.20 126.29E–.08 10 3.4b,3.0
IDC II 19 13 07 50.0–1.8 1.10N 126.64E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.5km s-min=10.1km az=16.7.
IDC Error ellipse: s-maj=175.9km s-min=21.1km az=66.0.
IDC II 20 07 47 12.8–8.4 2.47N 127.92E 244–85 3.6,3.2
¶17192572

IDC Error ellipse: s-maj=124.4km s-min=17.3km az=68.0.
ISC II 20 09 51 09.1–.70 1.21N–.03 126.35E–.04 57–6 4.9b,3.9s 370 1-160
BJI II 20 09 51 04.2 1.30N 126.30E 38 5.1b,4.8b ¶16032972
MOS II 20 09 51 05.2–1.0 1.28N 126.21E 38 5.3b,4.8b
DJA II 20 09 51 06.0–.30 1N–3.0 126E–2.0 10 5.2b,5.1b
ISCJB II 20 09 51 07.4–.41 1.27N–.02 126.33E–.02 56–4 5.0b,3.9s
NEIC II 20 09 51 08.7–.55 1.26N 126.31E 53–5 5.0b,3.9s
KLM II 20 09 51 09.1 1.34N 126.45E 64 6.0s,5.1L
IDC II 20 09 51 09.8–2.0 1.21N 126.30E 66–17 4.6,4.4
ISC Event type se.
MOS Error ellipse: s-maj=12.0km s-min=5.8km az=118.1.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=140.2.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=3.6km az=61.0.
IDC Error ellipse: s-maj=18.3km s-min=7.9km az=73.0.
ISC II 23 05 02 44.3–1.1 0.78N–.05 125.65E–.04 62–15 3.9b 22 2-72
IDC II 23 05 02 34.1–1.5 0.98N 125.30E 0 4.1,3.9b ¶17192737
ISCJB II 23 05 02 43.3–.51 0.78N–.04 125.62E–.03 67–11 3.9b,3.9b
DJA II 23 05 02 44.1–.40 1N–2.0 126E–2.0 42–22 4.5b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC II 23 17 39 41.5–.69 1.31N–.08 126.39E–.05 47 4.1b 27 1-133
DJA II 23 17 39 37.4–1.9 2N–20 126E–8.0 10 5.1b,4.8b ¶16342386
ISCJB II 23 17 39 39.8–.47 1.38N–.05 126.45E–.05 47 4.0b,4.8b
NEIC II 23 17 39 42.0–1.1 1.31N 126.53E 54–11 4.2b,4.8b
IDC II 23 17 39 44.2–5.3 1.25N 126.38E 75–53 4.0,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.2km az=41.2.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=8.8km az=77.0.
IDC Error ellipse: s-maj=38.7km s-min=15.5km az=66.0.
IDC II 25 21 59 28.6–1.5 0.57N 126.60E 0 3.7,3.5
¶17192868

IDC Error ellipse: s-maj=171.3km s-min=11.6km az=65.0.
IDC III 01 21 59 28.6–1.9 0.46N 125.78E 0 3.7,3.5
¶17193100

IDC Error ellipse: s-maj=169.5km s-min=26.1km az=65.0.
IDC III 03 16 45 44.6–1.6 0.89N 125.84E 0 3.6,3.5
¶17193198

IDC Error ellipse: s-maj=185.6km s-min=20.7km az=65.0.
IDC III 04 09 17 46.3–2.1 0.88N 125.77E 0 3.3,3.2
¶17193227

IDC Error ellipse: s-maj=184.9km s-min=27.6km az=65.0.
IDC III 05 14 23 27.3–1.5 2.79N 127.51E 0 3.7,3.5
¶17193284

IDC Error ellipse: s-maj=107.1km s-min=19.0km az=73.0.
IDC III 05 15 45 56.3–2.0 2.73N 127.68E 0 3.5,3.4
¶17193289

IDC Error ellipse: s-maj=170.7km s-min=23.3km az=66.0.
IDC III 05 16 13 21.8–1.7 0.71N 126.65E 0 3.9,3.7
¶17193292

IDC Error ellipse: s-maj=175.9km s-min=20.7km az=66.0.
IDC III 06 09 11 47.1–2.0 1.07N 125.43E 0 3.4,3.2
¶17193338

IDC Error ellipse: s-maj=197.1km s-min=25.0km az=64.0.
IDC III 08 07 23 00.3–1.9 2.24N 127.87E 0 3.6,3.5
¶17193457

IDC Error ellipse: s-maj=152.1km s-min=21.7km az=68.0.
ISC III 09 02 51 55.7–.92 0.01N–.07 125.03E–.04 53 4.7b 28 1-70
IDC III 09 02 51 17.2–16 3.10S 129.24E 0 4.8,4.8 **¶17193507**
ISCJB III 09 02 51 53.8–.47 0.05S–.06 124.98E–.04 53 4.9b,4.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 09 04 22 00.8–2.1 1.61N 126.31E 0 3.8,3.6
¶17193518

IDC Error ellipse: s-maj=187.1km s-min=25.5km az=65.0.
DJA III 09 14 55 41.9–1.0 1N–10 126E–3.0 10 3.7,3.7
¶602002866
IDC III 10 17 28 53.7–1.7 1.64N 126.10E 0 3.8,3.7
¶17193643

IDC Error ellipse: s-maj=180.0km s-min=20.6km az=66.0.
ISC III 13 00 44 43.4–.82 2.1N–.10 126.2E–.20 83 4.2b 10 11-53
IDC III 13 00 44 33.9–1.8 2.08N 126.19E 0 4.1,4.0 **¶16449574**
NEIC III 13 00 44 38.7–.45 2.10N 126.20E 35 4.2b,4.0
ISCJB III 13 00 44 41.8–.65 2.1N–.10 126.1E–.10 83 4.2b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 15 22 03 20.3–7.6 2.70N 126.72E 128–73 3.9,3.6
¶17196272

IDC Error ellipse: s-maj=56.2km s-min=16.1km az=76.0.
IDC III 15 22 12 29.5–2.1 2.69N 126.30E 0 4.0,3.8
¶17196276

IDC Error ellipse: s-maj=196.1km s-min=28.3km az=64.0.
ISC III 15 22 16 14.2–.30 2.44N–.03 126.79E–.05 53 4.7b,3.4s 208 2-156
BJI III 15 22 16 09.7 1.83N 126.73E 66 5.1b,4.7b **¶16327713**
NEIC III 15 22 16 10.9–2.1 2.38N 126.68E 27–15 4.9b,4.7b
KLM III 15 22 16 12.9 2.63N 127.16E 66 5.6s,4.8b
ISCJB III 15 22 16 12.5–.20 2.41N–.03 126.83E–.03 53 4.8b,3.5s
DJA III 15 22 16 14.1–.40 2N–3.0 127E–2.0 10 5.5b,5.1b
IDC III 15 22 16 14.9–3.0 2.33N 126.61E 60–28 4.6,4.5L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=4.3km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.6km az=158.5.
IDC Error ellipse: s-maj=15.3km s-min=9.4km az=77.0.
IDC III 16 22 43 40.8–1.9 2.95N 127.04E 0 3.8,3.7
¶17196557

IDC Error ellipse: s-maj=193.5km s-min=19.1km az=67.0.
ISC III 18 06 05 24.0–.97 1.46N–.09 126.6E–.10 47 3.9b 14 2-59
IDC III 18 06 05 17.4–1.1 1.38N 126.19E 0 4.0,3.9 **¶17196943**
ISCJB III 18 06 05 22.4–.82 1.45N–.08 126.69E–.09 47 3.9b,3.9
DJA III 18 06 05 26.1–.40 2N–5.0 127E–3.0 64–15 5.2b,4.6b
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 14 45 49.9–2.2 2.58N 127.81E 0 3.3,3.1
¶17197033

IDC Error ellipse: s-maj=164.1km s-min=25.0km az=67.0.
IDC III 19 17 17 17.2–2.0 1.55N 126.51E 0 3.3s,3.3
¶17197282

IDC Error ellipse: s-maj=162.0km s-min=25.2km az=66.0.
IDC III 21 16 17 58.4–9.5 1.87N 126.10E 0 3.7,3.5
¶17197700

IDC Error ellipse: s-maj=186.3km s-min=148.1km az=72.0.
IDC III 21 20 55 57.4–8.4 2.42N 126.99E 0 4.1,4.0
¶17197756

IDC Error ellipse: s-maj=135.7km s-min=101.8km az=138.0.
IDC III 23 12 42 33.8–1.9 2.59N 127.94E 0 3.8,3.6
¶17198195

IDC Error ellipse: s-maj=139.8km s-min=24.6km az=66.0.
IDC III 24 11 05 26.9–1.9 2.05N 127.79E 0 3.9,3.8
¶17198331

IDC Error ellipse: s-maj=136.9km s-min=24.4km az=66.0.
IDC III 24 19 57 34.0–2.3 2.74N 126.34E 0 3.5s,3.5
¶17198400

IDC Error ellipse: s-maj=214.2km s-min=25.1km az=66.0.
IDC III 26 02 31 36.5–1.3 1.36N 126.43E 0 3.8,3.7
¶17198592

IDC Error ellipse: s-maj=134.0km s-min=20.6km az=68.0.
IDC III 28 11 10 13.0–1.7 2.99N 126.88E 0 4.3s,4.3
¶17198938

IDC Error ellipse: s-maj=172.1km s-min=19.4km az=66.0.
IDC III 29 10 14 41.5–1.9 2.85N 127.07E 0 3.6,3.5
¶17199057

IDC Error ellipse: s-maj=182.7km s-min=22.1km az=66.0.
IDC III 29 20 33 33.3–2.2 2.14N 127.69E 0 3.6,3.4
¶17199108

IDC Error ellipse: s-maj=159.3km s-min=25.4km az=67.0.
IDC III 29 23 25 00.0–1.7 1.32N 126.16E 0 3.7,3.6
¶17199125

IDC Error ellipse: s-maj=179.4km s-min=21.6km az=66.0.
IDC IV 01 15 57 34.8–1.9 1.26N 125.86E 0 4.1,3.9
¶17199439

IDC Error ellipse: s-maj=178.8km s-min=23.8km az=65.0.
IDC IV 04 20 35 39.3–2.0 2.20N 127.32E 0 3.7,3.5
¶17199808

IDC Error ellipse: s-maj=163.2km s-min=25.5km az=66.0.
ISC IV 05 05 42 04.7–.47 2.93N–.06 127.24E–.08 49 4.4b,3.8s 47 2-124
IDC IV 05 05 41 58.0–.52 2.92N 126.99E 0 4.8L,4.4 **¶16577669**
NEIC IV 05 05 41 59.4–.37 2.95N 127.08E 10 4.7b,4.4
ISCJB IV 05 05 42 03.1–.36 2.97N–.04 127.23E–.07 49 4.4b,3.8s
DJA IV 05 05 42 03.0–.70 3N–6.0 127E–5.0 10 5.4b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 05 08 57 51.1–.47 2.99N–.07 127.10E–.09 44 4.5b,4.1s 47 2-123
IDC IV 05 08 57 44.4–.48 2.95N 127.18E 0 4.4,4.4 **¶16409333**
NEIC IV 05 08 57 46.6–.34 3.01N 127.02E 10 4.7b,4.4
ISCJB IV 05 08 57 49.2–.33 3.07N–.04 127.27E–.06 44 4.4b,4.1s
DJA IV 05 08 57 49.7–1.0 3N–10 127E–7.0 10 5.1b,5.1b
BJI IV 05 08 57 52.0 3.10N 127.30E 60 5.1b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=9.6km az=79.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=6.7km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.9km az=164.5.
IDC IV 05 10 49 02.9–1.7 2.78N 126.54E 0 3.8,3.7b
¶17199880

IDC Error ellipse: s-maj=179.7km s-min=19.1km az=65.0.
ISC IV 05 12 12 01.2–.70 2.9N–.10 126.9E–.30 44 4.2b 16 2-123
IDC IV 05 12 11 55.3–.80 2.90N 126.87E 0 4.2s,4.2 **¶16577677**
NEIC IV 05 12 11 56.9–.34 2.90N 126.86E 10 4.8b,4.2
ISCJB IV 05 12 11 59.4–.52 2.91N–.08 126.9E–.30 44 4.2s,4.2b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 05 12 57 26.5–.78 2.59N–.09 126.4E–.20 55 3.8b 15 2-62
IDC IV 05 12 57 19.9–.83 2.74N 126.54E 0 3.9,3.8b **¶16577679**
NEIC IV 05 12 57 21.3–.54 2.68N 126.41E 10 4.2b,3.8b
ISCJB IV 05 12 57 25.0–.61 2.57N–.08 126.2E–.20 55 3.8b,3.0s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 05 13 58 33.1–.90 2.9N–.10 127.0E–.20 44 4.2b 14 2-68
IDC IV 05 13 58 27.0–.90 2.83N 126.66E 0 4.2,4.1b **¶16506214**
NEIC IV 05 13 58 28.5–.51 2.81N 126.68E 10 4.3b,4.1b
ISCJB IV 05 13 58 30.9–.57 2.91N–.10 126.9E–.20 44 4.0b,3.7s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 05 14 17 19.1–9.9 2.80N 127.35E 306–113 3.8,3.5
¶17199901

IDC Error ellipse: s-maj=47.1km s-min=14.4km az=85.0.
IDC IV 05 14 19 06.3–14 2.41N 126.31E 242–153 3.7,3.3
¶17199902

IDC Error ellipse: s-maj=91.7km s-min=21.6km az=61.0.
ISC IV 05 14 44 35.9–.83 2.90N–.08 127.4E–.10 50 3.7b 15 2-59
ISCJB IV 05 14 44 35.8–.69 2.91N–.07 127.40E–.09 50 3.7b **¶17199904**
DJA IV 05 14 44 39.9–.70 3N–7.0 127E–5.0 53–26 4.8b,4.4b
IDC IV 05 14 45 19.3–4.8 2.43N 127.64E 622–92 3.7,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=9.7km az=169.4.
IDC Error ellipse: s-maj=36.9km s-min=18.3km az=83.0.
IDC IV 05 14 55 25.7–1.9 2.91N 126.86E 0 3.8,3.6
¶17199906

IDC Error ellipse: s-maj=167.2km s-min=24.1km az=65.0.
ISC IV 05 16 13 56.3–.66 2.88N–.08 126.8E–.10 44 4.0b,3.2s 17 2-100
IDC IV 05 16 13 50.1–.74 2.90N 126.98E 0 4.0,3.8b **¶16506216**
NEIC IV 05 16 13 52.1–.57 2.93N 126.80E 10 4.4b,3.8b
ISCJB IV 05 16 13 54.1–.49 2.86N–.06 126.8E–.10 44 3.9b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 05 21 30 36.7–.50 2.74N–.05 126.73E–.07 10 4.3b 36 2-91
IDC IV 05 21 30 35.1–.64 2.85N 126.76E 0 4.3,4.1 **¶16577685**
NEIC IV 05 21 30 36.4–.32 2.86N 126.78E 10 4.4b,4.1
DJA IV 05 21 30 38.4–.70 3N–5.0 127E–4.0 10 5.1b,4.6b
ISC Event type se.
NEIC Event type se.
ISC IV 05 21 36 21.3–.76 2.9N–.10 126.9E–.20 44 4.0b 18 21-123
IDC IV 05 21 36 15.4–.75 2.90N 126.83E 0 4.1,3.9 **¶16577689**
NEIC IV 05 21 36 16.7–.40 2.89N 126.80E 10 4.3b,3.9
ISCJB IV 05 21 36 19.2–.50 2.88N–.07 126.7E–.20 44 4.0b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 06 03 46 05.8–.88 0.82N–.07 125.08E–.05 87 3.9b 19 1-59
IDC IV 06 03 45 54.6–1.1 0.88N 124.57E 0 3.7,3.7 **¶17199955**
ISCJB IV 06 03 46 06.5–.79 0.75N–.07 125.10E–.05 87 3.5b,3.7
DJA IV 06 03 46 09.7–.50 1N–4.0 125E–3.0 82–13 5.0b,4.5b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 06 09 55 05.6–1.7 0.98N 125.10E 0 3.8,3.6
¶17199991

IDC Error ellipse: s-maj=180.0km s-min=22.9km az=63.0.
IDC IV 06 12 54 24.2–2.0 2.95N 126.84E 0 3.7,3.5
¶17200005

IDC Error ellipse: s-maj=176.6km s-min=23.3km az=65.0.
ISC IV 06 13 13 10.7–.65 2.9N–.10 126.9E–.30 44 4.0b 28 2-86
IDC IV 06 13 13 04.5–.75 2.87N 126.81E 0 4.1,3.9 **¶16525079**
NEIC IV 06 13 13 05.9–.33 2.88N 126.86E 10 4.4b,3.9
ISCJB IV 06 13 13 08.4–.41 2.90N–.08 126.8E–.20 44 4.0b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 06 18 11 29.7–1.5 2.50N 126.01E 0 3.8,3.6
¶17200035

IDC Error ellipse: s-maj=157.5km s-min=22.1km az=65.0.
ISC IV 06 20 40 32.9–1.1 0.4N–.10 125.58E–.08 73 3.8b 11 2-123
IDC IV 06 20 40 23.7–1.6 0.58N 125.59E 0 3.9,3.8 **¶17200049**
DJA IV 06 20 40 28.8–1.9 1N–14 126E–8.0 176–46 4.1,4.1
ISCJB IV 06 20 40 31.5–1.1 0.4N–.10 125.57E–.09 73 3.7b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC IV 06 21 48 47.4–1.4 2.16N 127.73E 0 4.0,3.9
¶17200057

IDC Error ellipse: s-maj=143.3km s-min=17.3km az=68.0.
IDC IV 07 01 27 32.2–1.9 2.80N 126.36E 0 3.5,3.4
¶17200069

IDC Error ellipse: s-maj=195.7km s-min=21.0km az=66.0.
IDC IV 09 12 16 21.4–2.2 2.90N 126.59E 0 3.5,3.3
¶17200336

IDC Error ellipse: s-maj=195.3km s-min=24.7km az=66.0.
IDC IV 09 19 24 45.5–2.3 2.63N 127.85E 0 3.4,3.2
¶17200363

IDC Error ellipse: s-maj=150.3km s-min=27.8km az=67.0.
IDC IV 10 01 05 12.2–2.9 1.52N 126.49E 0 3.9,3.7
¶17200395

IDC Error ellipse: s-maj=351.4km s-min=21.1km az=66.0.
IDC IV 10 05 08 27.3–2.3 2.72N 126.37E 0 3.5,3.4
¶17200424

IDC Error ellipse: s-maj=199.1km s-min=27.5km az=66.0.
IDC IV 10 07 15 56.9–2.1 1.90N 125.14E 0 3.7,3.5
¶17200434

IDC Error ellipse: s-maj=207.6km s-min=26.3km az=64.0.
DJA IV 11 04 05 37.7–1.2 1N–9.0 126E–5.0 10 3.5,3.5
¶602003947
IDC IV 11 15 30 07.3–2.1 2.20N 126.80E 0 3.3,3.1
¶17200643

IDC Error ellipse: s-maj=174.0km s-min=25.5km az=66.0.
IDC IV 11 23 38 54.6–2.2 1.18N 126.53E 0 4.0,3.8
¶17200706

IDC Error ellipse: s-maj=174.8km s-min=28.0km az=66.0.
IDC IV 12 06 39 06.1–2.1 1.85N 126.00E 0 3.5,3.3
¶17200743

IDC Error ellipse: s-maj=192.0km s-min=24.9km az=65.0.
IDC IV 12 11 04 15.0–2.1 2.50N 126.02E 0 3.6,3.4
¶17200769

IDC Error ellipse: s-maj=189.8km s-min=24.7km az=65.0.
ISC IV 12 11 20 43.1–.76 0.40N–.08 125.53E–.04 73 3.9b 25 2-123
IDC IV 12 11 20 33.9–.86 0.38N 125.20E 0 4.1,4.0 **¶16587473**
ISCJB IV 12 11 20 41.1–.54 0.44N–.07 125.56E–.05 73 4.0b,4.0
DJA IV 12 11 20 41.4–.50 0N–6.0 126E–3.0 10 5.0b,4.3b
NEIC IV 12 11 20 43.4–1.1 0.43N 125.62E 81–11 4.3b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=75.0km s-min=18.5km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=6.3km az=18.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=13.3km az=46.0.
IDC IV 15 08 30 21.2–1.2 0.01N 125.81E 0 3.8,3.6
¶17201110

IDC Error ellipse: s-maj=128.3km s-min=19.8km az=68.0.
IDC IV 15 08 36 35.3–2.0 2.63N 126.18E 0 3.7,3.5
¶17201112

IDC Error ellipse: s-maj=179.0km s-min=26.9km az=65.0.
ISC IV 16 16 29 31.7–.47 1.60N–.05 126.47E–.07 47 4.1b 45 1-123
IDC IV 16 16 29 25.1–.56 1.61N 126.51E 0 4.2,4.1 **¶16591744**
ISCJB IV 16 16 29 29.9–.35 1.62N–.04 126.46E–.05 47 4.1b,3.4s
DJA IV 16 16 29 30.2–.50 2N–4.0 127E–5.0 63–13 4.7b,4.5b
NEIC IV 16 16 29 31.5–2.5 1.55N 126.53E 47–23 4.1b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=36.5km s-min=12.9km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.9km az=156.2.
NEIC Event type se. Error ellipse: s-maj=22.1km s-min=9.7km az=67.0.
IDC IV 17 08 53 29.6–1.4 0.81N 125.98E 0 4.0,3.8
¶17201298

IDC Error ellipse: s-maj=164.8km s-min=19.0km az=65.0.
IDC IV 17 21 33 49.5–1.9 2.99N 126.51E 0 3.6,3.4b
¶17201359

IDC Error ellipse: s-maj=178.0km s-min=23.5km az=65.0.
ISC IV 17 22 03 13.5–.94 0.70N–.07 126.65E–.05 47 3.8b 26 1-60
IDC IV 17 22 03 04.6–1.2 0.51N 126.45E 0 4.0,3.9 **¶17201363**
ISCJB IV 17 22 03 14.3–.55 0.57N–.05 126.63E–.03 47 3.9b,3.9
DJA IV 17 22 03 14.6–.50 1N–2.0 127E–2.0 20–6 5.1b,4.4
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 23 04 03.0–.65 1.37N–.06 126.43E–.05 47 4.0b 36 1-87
IDC IV 17 23 03 55.8–.78 1.50N 126.78E 0 4.1,4.1L **¶16532035**
ISCJB IV 17 23 04 01.6–.44 1.42N–.04 126.42E–.04 47 3.9b,4.1L
NEIC IV 17 23 04 04.0–1.9 1.37N 126.64E 64–19 4.3b,4.1L
DJA IV 17 23 04 06.9–.30 1N–2.0 126E–2.0 48–18 5.0b,4.4b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 19 15 02 38.5–1.9 0.25N 126.14E 0 3.9s,3.9
¶17201512

IDC Error ellipse: s-maj=165.4km s-min=25.7km az=65.0.
ISC IV 19 18 10 51.3–.75 0.8N–.10 126.35E–.07 39 4.0b 16 1-71
IDC IV 19 18 10 46.2–1.1 0.75N 126.19E 0 4.0,3.9 **¶16631144**
ISCJB IV 19 18 10 49.6–.52 0.82N–.07 126.32E–.06 39 3.9b,3.9
NEIC IV 19 18 10 51.4–1.3 0.82N 126.38E 38–14 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=60.6km s-min=19.6km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=8.0km az=7.4.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=11.7km az=209.0.
IDC IV 21 00 16 04.1–1.4 2.62N 126.42E 0 3.8,3.7
¶17201656

IDC Error ellipse: s-maj=111.0km s-min=17.5km az=70.0.
ISC IV 22 15 00 08.2–.77 2.51N–.08 126.51E–.10 55 4.2b 20 2-93
IDC IV 22 15 00 00.9–.97 2.26N 126.12E 0 4.2,4.0b **¶17201822**
ISCJB IV 22 15 00 06.7–.68 2.47N–.06 126.45E–.10 55 4.1b,4.0b
DJA IV 22 15 00 06.4–.40 2N–4.0 126E–5.0 10 4.8b,4.3b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 28 11 05 10.3–7.3 2.87N 126.67E 0 3.9,3.7
¶17202296

IDC Error ellipse: s-maj=125.1km s-min=100.5km az=118.0.
IDC IV 29 04 43 52.9–1.7 2.96N 126.71E 0 4.1,3.9
¶17202346

IDC Error ellipse: s-maj=187.8km s-min=19.2km az=66.0.
IDC IV 29 09 16 15.1–1.6 2.99N 126.84E 0 3.8,3.6b
¶17202368

IDC Error ellipse: s-maj=101.0km s-min=22.9km az=69.0.
IDC IV 30 16 13 34.9–1.4 0.55N 126.21E 0 3.7,3.5
DJA IV 30 16 13 34.9–2.3 1N–8.0 127E–32 10 3.5,3.5 **¶17202465**
IDC V 02 20 36 41.9–2.0 1.66N 126.50E 0 4.0,3.7
¶17202641

IDC Error ellipse: s-maj=169.6km s-min=24.3km az=66.0.
IDC V 02 22 09 12.3–1.5 1.24N 125.83E 0 4.0,3.9
¶17202645

IDC Error ellipse: s-maj=107.4km s-min=21.0km az=66.0.
IDC V 03 07 16 38.9–2.0 2.24N 127.59E 0 3.8s,3.8
¶17202661

IDC Error ellipse: s-maj=114.1km s-min=23.3km az=70.0.
IDC V 03 13 43 20.1–1.9 2.62N 126.06E 0 3.6,3.5
¶17202680

IDC Error ellipse: s-maj=175.4km s-min=23.7km az=65.0.
IDC V 03 14 12 21.8–2.2 2.78N 126.60E 0 3.4,3.2
¶17202683

IDC Error ellipse: s-maj=195.9km s-min=25.1km az=66.0.
ISC V 03 15 41 37.1–.97 2.6N–.10 126.0E–.10 10 4.3b 10 5-69
ISCJB V 03 15 41 35.3–.71 2.57N–.09 125.9E–.10 10 4.2b,3.0s **¶16577970**
IDC V 03 15 41 36.0–.99 2.79N 126.46E 0 4.2,4.1b
NEIC V 03 15 41 37.1–.69 2.62N 126.02E 10 4.4b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=11.7km az=161.5.
IDC Error ellipse: s-maj=76.3km s-min=16.6km az=71.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=11.2km az=80.0.
IDC V 05 11 32 01.1–2.0 2.77N 126.70E 0 3.5,3.3
¶17202844

IDC Error ellipse: s-maj=184.9km s-min=23.6km az=65.0.
ISC V 05 21 23 27.5–.73 0.64N–.08 126.8E–.10 35 4.2b 18 9-124
IDC V 05 21 23 22.0–.74 0.65N 126.96E 0 4.2,4.1 **¶16578011**
ISCJB V 05 21 23 25.1–.56 0.60N–.06 126.82E–.09 33 4.3b,4.1
NEIC V 05 21 23 27.7–1.9 0.60N 126.88E 39–19 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=35.0km s-min=11.5km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=9.0km az=12.2.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=7.5km az=63.0.
IDC V 06 05 26 12.2–3.2 0.65N 125.75E 0 3.6,3.5
¶17202902

IDC Error ellipse: s-maj=427.2km s-min=24.9km az=65.0.
ISC V 08 15 51 37.9–.54 1.05N–.03 125.42E–.04 76–4 4.8b 422 2-160
MOS V 08 15 51 32.8–1.1 1.19N 125.14E 41 5.3b **¶16499313**
ISCJB V 08 15 51 37.2–.29 1.09N–.02 125.44E–.02 84–3 4.8b
IDC V 08 15 51 37.6–1.5 1.11N 125.26E 73–13 4.8,4.5
NEIC V 08 15 51 38.9–.63 1.07N 125.31E 86–6 4.9b,4.5
BJI V 08 15 51 38.7 1.00N 125.30E 84 4.9b,4.8b
DJA V 08 15 51 38.7–.20 1N–2.0 126E–2.0 57–3 5.7,5.5b
GCMT V 08 15 51 38.9–.20 1.18N 125.28E 59–2 5.1W,5.5b
KLM V 08 15 51 43.3 1.00N 125.14E 65 5.6s,5.4L
ISC Event type fe.
MOS Error ellipse: s-maj=10.0km s-min=5.3km az=114.6.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.8km az=162.5.
IDC Error ellipse: s-maj=11.8km s-min=8.6km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=4.4km az=61.0. Felt [IV] at Manado and [III] at Tondano, Indonesia.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c75; s68,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.94±.16 $M_{\theta\theta}$-2.88±.13; $M_{\phi\phi}$1.94±.18; $M_{r\theta}$1.38±.12; $M_{\theta\phi}$4.47±.13; $M_{\phi r}$2.80±.17; Best double couple: NP1:ϕ_s342.00000°,δ71.00000° ,λ156.00000°. NP2:ϕ_s80.00000°,δ67.00000°,λ20.00000°. Principal axes: T 6.3880,Plg30.0000°,Azm300.0000°; N -0.8250,Plg60.0000°,Azm126.0000° ; P -5.5600,Plg3.0000°,Azm32.0000° $M_0$5.97400×10^{16}
IDC V 10 08 18 22.3–7.7 2.93N 127.39E 0 4.0,3.9
¶17203193

IDC Error ellipse: s-maj=127.5km s-min=100.8km az=130.0.
ISC V 10 14 32 37.0–.46 1.52N–.03 126.41E–.04 42–3 5.1b,4.5s 497 2-168
IDC V 10 14 32 30.9–.31 1.45N 126.31E 0 5.1b,5.0 **¶16503281**
KLM V 10 14 32 32.8 1.25N 126.56E 10 5.6s,5.4L
BJI V 10 14 32 32.7 1.28N 126.40E 42 5.1b,5.0b
MOS V 10 14 32 33.7–1.2 1.46N 126.25E 33 5.4b,4.3s
ISCJB V 10 14 32 35.1–.37 1.50N–.02 126.43E–.02 46–3 5.1b,4.5s
GCMT V 10 14 32 36.2–.20 1.63N 126.28E 18–1 5.3W,4.5s
NEIC V 10 14 32 36.2–.77 1.47N 126.36E 41–7 5.2b,4.5s

DJA V 10 14 32 37.0–1.1 2N–2.0 126E–2.0 22–12 5.6b,5.4
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c23; s72,c108;Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.38±.04 $M_{\theta\theta}$-0.32±.02; $M_{\phi\phi}$0.70±.03; $M_{r\theta}$0.05±.06; $M_{\theta\phi}$0.36±.02; $M_{\phi r}$0.69±.10; Best double couple: NP1:ϕ_s177.00000°,δ73.00000°,λ-113.00000°. NP2:ϕ_s52.00000° ,δ28.00000°,λ-39.00000°. Principal axes: T 1.1250,Plg24.0000°,Azm285.0000° ; N -0.3740,Plg22.0000°,Azm185.0000°; P -0.7520,Plg56.0000°,Azm58.0000° $M_0$0.93900×10^{17}
NEIC Event type se.
IDC V 10 16 40 44.7–1.1 2.48N 126.47E 0 3.6,3.5
¶17203309

IDC Error ellipse: s-maj=58.3km s-min=20.2km az=80.0.
ISC V 12 03 24 32.0–.88 2.4N–.10 127.3E–.50 53 4.0b 9 20-62
IDC V 12 03 24 25.2–.85 2.45N 127.17E 0 4.1,4.0b **¶17203452**
ISCJB V 12 03 24 30.1–.67 2.4N–.10 127.1E–.40 53 3.9b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC V 12 18 56 04.9–1.6 0.20N 126.08E 0 3.8s,3.8
¶17203496

IDC Error ellipse: s-maj=175.2km s-min=21.3km az=65.0.
IDC V 13 08 51 41.9–2.0 0.96N 125.67E 0 3.9,3.7
¶17203541

IDC Error ellipse: s-maj=177.9km s-min=26.2km az=65.0.
ISC V 17 10 13 06.0–.62 2.87N–.07 127.0E–.10 44 4.3b 32 2-123
DJA V 17 10 12 52.5–1.1 4N–11 128E–7.0 165–22 5.2b,5.0 **¶16710097**
NEIC V 17 10 13 01.5–.37 2.96N 126.93E 10 4.6b,5.0
IDC V 17 10 13 09.4–6.7 2.93N 126.89E 75–65 4.2,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=7.3km az=68.0.
IDC Error ellipse: s-maj=36.6km s-min=13.4km az=78.0.
ISC V 17 19 15 55.0–1.0 1.7N–.10 127.0E–.10 112 4.2b 15 5-60
IDC V 17 19 15 42.3–2.3 2.07N 127.58E 0 4.0,3.8 **¶16710124**
NEIC V 17 19 15 46.7–.59 1.95N 127.45E 35 4.3b,3.8
ISCJB V 17 19 15 53.5–.63 1.67N–.07 126.93E–.08 112 4.2b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 18 12 17 36.9–1.7 1.86N 126.99E 0 3.7,3.6
¶17203878

IDC Error ellipse: s-maj=114.3km s-min=21.3km az=70.0.
IDC V 18 14 18 08.2–1.4 1.88N 126.49E 0 3.8,3.7
¶17203884

IDC Error ellipse: s-maj=113.9km s-min=18.7km az=69.0.
IDC V 18 18 49 15.0–1.4 0.08N 125.37E 0 3.8,3.7
¶17203897

IDC Error ellipse: s-maj=52.6km s-min=22.1km az=64.0.
IDC V 19 22 20 36.3–2.3 2.32N 126.75E 0 3.7s,3.7
¶17203997

IDC Error ellipse: s-maj=189.6km s-min=26.1km az=66.0.
IDC V 24 18 46 40.7–1.2 2.08N 126.90E 0 3.9,3.8
¶17204397

IDC Error ellipse: s-maj=101.9km s-min=15.7km az=68.0.
ISC V 25 03 01 19.1–.72 1.74N–.09 126.7E–.10 47 4.0b 20 5-124
IDC V 25 03 01 12.6–.68 1.73N 126.50E 0 4.2,4.1 **¶16640723**
ISCJB V 25 03 01 17.2–.50 1.74N–.06 126.6E–.10 47 4.1b,2.8s
NEIC V 25 03 01 17.7–.44 1.73N 126.58E 35 4.1b,2.8s
ISC Event type se.
IDC Error ellipse: s-maj=41.5km s-min=14.5km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=9.0km az=2.7.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=8.2km az=88.0.
IDC V 25 11 35 53.7–1.9 0.63N 125.69E 0 3.4,3.2
¶17204447

IDC Error ellipse: s-maj=177.0km s-min=24.9km az=65.0.
IDC V 25 15 40 50.4–2.1 0.95N 126.47E 0 3.7,3.5
¶17204456

IDC Error ellipse: s-maj=178.2km s-min=27.3km az=65.0.
IDC V 27 08 43 22.6–1.8 1.05N 126.43E 0 3.7,3.5
¶17204554

IDC Error ellipse: s-maj=166.2km s-min=23.1km az=65.0.
IDC V 28 09 15 12.9–1.8 1.34N 126.62E 0 4.1,4.0
¶17204614

IDC Error ellipse: s-maj=157.2km s-min=22.5km az=65.0.
IDC V 28 22 19 41.4–10 1.23N 126.92E 245–111 3.7,3.2
¶17204659

IDC Error ellipse: s-maj=88.2km s-min=20.5km az=56.0.
IDC V 29 20 48 15.0–1.8 0.75N 126.66E 0 3.7s,3.7
¶17204725

IDC Error ellipse: s-maj=166.8km s-min=22.3km az=65.0.
ISC VI 02 01 53 56.2–.50 1.57N–.06 126.75E–.07 47 4.3b,3.1s 50 2-117
ISCJB VI 02 01 53 54.7–.34 1.55N–.04 126.72E–.05 47 4.4b,2.9s **¶16577369**
BJI VI 02 01 53 56.8 1.05N 126.95E 104 4.8b,4.6b
DJA VI 02 01 53 57.5–.40 1N–5.0 127E–4.0 10 5.1b,4.7b
IDC VI 02 01 53 58.6–3.7 1.40N 126.48E 69–36 4.2,4.1L
NEIC VI 02 01 53 58.8–1.1 1.42N 126.67E 76–11 4.6b,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.8km az=164.8.
IDC Error ellipse: s-maj=28.0km s-min=12.5km az=78.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.1km az=53.0.
IDC VI 02 23 03 30.9–1.9 0.65N 126.12E 0 4.0,3.8
¶17205037

IDC Error ellipse: s-maj=162.4km s-min=24.5km az=65.0.
ISC VI 03 02 48 26.4–.67 2.3N–.10 126.7E–.30 53 4.3b 28 5-123
ISCJB VI 03 02 48 24.8–.45 2.33N–.07 126.7E–.20 53 4.3b **¶16646364**
IDC VI 03 02 48 27.1–5.2 2.33N 126.74E 56–49 4.3,4.1
NEIC VI 03 02 48 29.0–3.1 2.32N 126.81E 77–29 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.9km s-min=7.9km az=165.7.
IDC Error ellipse: s-maj=39.8km s-min=12.3km az=72.0.
NEIC Event type se. Error ellipse: s-maj=20.9km s-min=6.8km az=71.0.
IDC VI 03 12 35 54.3–1.5 1.45N 125.68E 0 3.8,3.7
¶17205097

IDC Error ellipse: s-maj=173.7km s-min=19.6km az=65.0.
IDC VI 03 12 38 43.7–1.2 1.90N 126.68E 0 3.9,3.8b
¶17205098

IDC Error ellipse: s-maj=101.6km s-min=17.5km az=68.0.
IDC VI 06 03 51 33.0–2.1 1.69N 126.45E 0 3.7,3.4
¶17205382

IDC Error ellipse: s-maj=193.5km s-min=25.4km az=66.0.
IDC VI 06 14 49 11.0–2.1 2.32N 127.25E 0 3.2,3.1
¶17205416

IDC Error ellipse: s-maj=161.1km s-min=25.4km az=67.0.
IDC VI 07 09 47 50.5–1.8 1.95N 125.73E 0 3.6,3.5
¶17205472

IDC Error ellipse: s-maj=187.5km s-min=23.5km az=64.0.
IDC VI 08 10 36 18.9–1.8 0.67N 126.53E 0 4.2,4.0
¶17205550

IDC Error ellipse: s-maj=113.3km s-min=23.4km az=68.0.
IDC VI 08 15 05 08.8–20 0.35N 126.89E 413–254 3.6,3.0
¶17205559

IDC Error ellipse: s-maj=147.8km s-min=30.8km az=49.0.
IDC VI 09 22 27 45.1–2.3 2.45N 126.89E 0 3.6,3.4
¶17205668

IDC Error ellipse: s-maj=184.1km s-min=26.5km az=66.0.
IDC VI 10 07 22 53.9–2.2 2.53N 126.46E 0 3.8,3.5b
¶17205690

IDC Error ellipse: s-maj=194.4km s-min=24.8km az=66.0.
ISC VI 13 14 31 23.4–.29 2.55N–.02 126.46E–.03 66–2 6.4b 2419 1-173
KLM VI 13 14 31 16.1 2.25N 127.37E 60 6.9s,6.5b **¶602897626**
BJI VI 13 14 31 20.1 2.45N 126.50E 42 6.6b,6.3b

NEIC VI 13 14 31 21.0–.00 2.53N 126.75E 80 6.6b,6.3b
MOS VI 13 14 31 21.4–1.0 2.53N 126.45E 58 6.5b,5.7s
ISCJB VI 13 14 31 22.3–.25 2.47N–.01 126.48E–.02 71–2 6.3b,5.7s
NEIC VI 13 14 31 23.0–.52 2.52N 126.46E 61–4 7.0,6.4b
IDC VI 13 14 31 23.4–1.1 2.45N 126.51E 67–8 6.1,5.8
GCMT VI 13 14 31 23.0–.10 2.74N 126.35E 82–0 6.4W,5.8
DJA VI 13 14 31 24.8–.20 2N–2.0 126E–1.0 81–2 6.8,6.8b
NEIC VI 13 14 31 36.6–.00 2.25N 126.68E 53 6.8,6.8b
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s54 Moment tensor: Scale 10^{18}Nm; M_{rr}0.58 $M_{\theta\theta}$2.21 $M_{\phi\phi}$-2.79 $M_{r\theta}$0.31 $M_{\theta\phi}$3.06 $M_{\phi r}$0.71 Best double couple: NP1:ϕ_s19.00000°,δ87.00000° ,λ168.00000°. NP2:ϕ_s110.00000°,δ78.00000°,λ3.00000°. Principal axes: T 3.7700,Plg10.0000°,Azm333.0000°; N 0.5300,Plg77.0000°,Azm184.0000° ; P -4.2900,Plg6.0000°,Azm65.0000° M_o4.10000×10^{18}
MOS Error ellipse: s-maj=6.7km s-min=3.8km az=112.6.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=160.6.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=75.0. Felt [V] at Manado; [IV] on Pulau Ternate and at Tahuna; [III] at Bitung and Melonguanne, Indonesia. Felt at Zamboanga, Philippines. Complex event observed on broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s28 Moment tensor: Scale 10^{18}Nm; M_{rr}1.50 $M_{\theta\theta}$2.17 $M_{\phi\phi}$-3.66 $M_{r\theta}$-0.05 $M_{\theta\phi}$2.10 $M_{\phi r}$0.37 Best double couple: NP1:ϕ_s207.00000°,δ90.00000°,λ-175.00000°. NP2:ϕ_s117.00000° ,δ85.00000°,λ0.00000°. Principal axes: T 2.8500,Plg3.0000°,Azm342.0000° ; N 1.5200,Plg85.0000°,Azm212.0000°; P -4.3600,Plg4.0000°,Azm72.0000° M_o3.80000×10^{18}
IDC Error ellipse: s-maj=9.3km s-min=5.8km az=70.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s145,c342; s135,c500;Duration: 3s9 Moment tensor: Scale 10^{18} Nm; M_{rr}0.63±.02 $M_{\theta\theta}$2.91±.02; $M_{\phi\phi}$-3.54±.03; $M_{r\theta}$0.88±.02; $M_{\theta\phi}$3.68±.02; $M_{\phi r}$0.14±.02; Best double couple: NP1:ϕ_s111.00000°,δ83.00000°,λ10.00000°. NP2:ϕ_s20.00000° ,δ80.00000°,λ173.00000°. Principal axes: T 4.7590,Plg12.0000°,Azm336.0000° ; N 0.4610,Plg78.0000°,Azm145.0000°; P -5.2170,Plg2.0000°,Azm245.0000° M_o4.98800×10^{18}
NEIC Event type se. Moment Tensor Solution. s52 Moment tensor: Scale 10^{18}Nm; M_{rr}0.37 $M_{\theta\theta}$3.19 $M_{\phi\phi}$-3.56 $M_{r\theta}$0.74 $M_{\theta\phi}$3.23 $M_{\phi r}$0.85 Best double couple: NP1:ϕ_s114.00000° ,δ77.00000°,λ5.00000°. NP2:ϕ_s22.00000°,δ85.00000°,λ167.00000°. Principal axes: T 4.7200,Plg13.0000°,Azm337.0000°; N 0.1900,Plg76.0000°,Azm182.0000° ; P -4.9000,Plg6.0000°,Azm69.0000° M_o4.80000×10^{18}

ISC VI 13 18 37 13.2–1.2 1.0N–.20 125.8E–.20 44 4.0b 8 4-69
IDC VI 13 18 37 06.9–1.2 1.21N 126.21E 0 3.9,3.8 **¶16730418**
NEIC VI 13 18 37 08.8–.71 1.06N 125.88E 10 4.1b,3.8
ISCJB VI 13 18 37 11.4–.87 1.0N–.10 125.8E–.20 44 3.9b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

IDC VI 13 18 38 26.7–2.1 0.82N 125.29E 0 3.8,3.6b
¶17206064

IDC Error ellipse: s-maj=222.4km s-min=27.0km az=64.0.

ISC VI 15 23 44 13.2–.79 1.94N–.10 126.5E–.20 47 4.0b 17 10-82
IDC VI 15 23 44 06.9–.75 1.97N 126.54E 0 4.1,4.0 **¶16730589**
ISCJB VI 15 23 44 11.2–.52 1.95N–.08 126.5E–.20 47 4.1b,4.0
NEIC VI 15 23 44 11.8–8.1 1.93N 126.48E 34–60 4.1b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=51.6km s-min=14.4km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=34.5km s-min=9.7km az=169.0.
NEIC Event type se. Error ellipse: s-maj=29.4km s-min=9.5km az=83.0.

ISC VI 17 02 37 17.3–.77 2.8N–.10 126.7E–.40 63 3.9b 11 21-123
IDC VI 17 02 37 09.3–.79 2.79N 126.65E 0 4.0,3.9 **¶17206362**
ISCJB VI 17 02 37 15.4–.68 2.8N–.10 126.7E–.30 63 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.

IDC VI 19 00 47 31.2–1.9 0.02N 125.65E 0 3.8,3.6
¶17206502

IDC Error ellipse: s-maj=185.6km s-min=25.0km az=64.0.

IDC VI 21 09 33 33.5–2.5 1.32N 126.96E 0 3.6,3.5
¶17206668

IDC Error ellipse: s-maj=280.5km s-min=21.3km az=67.0.

IDC VI 22 12 56 14.1–1.7 1.46N 126.64E 0 3.7,3.6
¶17206755

IDC Error ellipse: s-maj=160.6km s-min=20.9km az=66.0.

ISC VI 23 09 41 58.4–.40 1.94N–.05 126.68E–.06 47 4.5b,3.4s 82 2-123
ISCJB VI 23 09 41 56.4–.28 1.94N–.03 126.68E–.04 47 4.5b,3.4s **¶16646398**
DJA VI 23 09 41 58.3–1.7 2N–4.0 127E–10 26–19 5.2,5.2b
BJI VI 23 09 41 59.2 1.90N 126.60E 58 4.9b,4.7s
IDC VI 23 09 42 00.5–2.9 1.86N 126.51E 68–27 4.3,4.2
NEIC VI 23 09 42 01.1–.88 1.83N 126.47E 77–8 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=177.8.
IDC Error ellipse: s-maj=19.3km s-min=10.1km az=77.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=4.5km az=59.0.

ISC VI 24 23 46 37.4–.63 1.55N–.06 126.6E–.10 47 4.3b 26 5-123
IDC VI 24 23 46 30.7–.62 1.41N 126.10E 0 4.4L,4.3 **¶16731407**
ISCJB VI 24 23 46 35.1–.47 1.56N–.05 126.56E–.08 47 4.3b,3.4s
NEIC VI 24 23 46 37.7–1.4 1.48N 126.46E 54–13 4.4b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=42.0km s-min=13.5km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=6.9km az=9.7.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=8.2km az=81.0.

IDC VI 26 18 50 32.7–1.4 2.38N 126.92E 0 3.7,3.6
¶17207017

IDC Error ellipse: s-maj=144.9km s-min=19.1km az=69.0.

IDC VI 27 11 51 38.3–2.0 2.13N 126.03E 0 3.4,3.2
¶17207070

IDC Error ellipse: s-maj=184.8km s-min=25.5km az=65.0.

IDC VI 27 12 49 33.4–1.9 1.84N 126.58E 0 3.5s,3.4
¶17207074

IDC Error ellipse: s-maj=180.3km s-min=23.1km az=66.0.

DJA VI 29 03 06 00.2–.70 0N–4.0 125E–3.0 92–14 3.6,3.6
¶602004666

IDC VI 29 11 08 30.1–2.2 1.91N 126.82E 0 3.5,3.4
¶17207194

IDC Error ellipse: s-maj=180.8km s-min=25.1km az=66.0.

ISC VI 30 03 53 40.7–.62 1.47N–.08 126.5E–.10 54 4.2b,2.8s 26 4-123
IDC VI 30 03 53 33.6–.60 1.43N 126.03E 0 4.2,4.1 **¶16731823**
ISCJB VI 30 03 53 38.9–.45 1.44N–.06 126.3E–.10 54 4.3b,3.4s
NEIC VI 30 03 53 42.0–1.9 1.39N 126.25E 67–18 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=44.2km s-min=12.7km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=8.1km az=170.2.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=7.6km az=71.0.

(267) Halmahera.

ISC I 01 01 54 07.1–.40 2.41N–.04 128.47E–.05 35 4.7b,3.4s 94 2-148
ISCJB I 01 01 54 05.9–.24 2.53N–.03 128.44E–.03 33 4.6b,3.6s **¶15927159**
BJI I 01 01 54 09.0 2.31N 128.50E 72 5.4b,4.9b
NEIC I 01 01 54 10.9–.69 2.42N 128.39E 73–7 4.6b,4.9b
IDC I 01 01 54 10.6–1.3 2.42N 128.41E 70–11 4.5,4.3
DJA I 01 01 54 11.7–.70 2N–5.0 128E–3.0 46–54 5.2b,5.1b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

IDC I 01 09 02 50.4–2.6 1.05N 127.44E 0 3.5,3.3
¶17189118

IDC Error ellipse: s-maj=219.7km s-min=29.3km az=67.0.

ISC I 01 22 35 37.5–.38 2.90N–.05 128.99E–.06 44 4.5b 87 3-159
IDC I 01 22 35 31.5–.46 2.92N 128.82E 0 4.4,4.4 **¶15994756**
ISCJB I 01 22 35 35.6–.26 2.89N–.03 128.99E–.04 44 4.5b,4.4
NEIC I 01 22 35 35.4–2.0 2.93N 128.84E 25–15 4.6b,4.4
BJI I 01 22 35 36.9 2.80N 129.00E 56 5.2b,4.7b
DJA I 01 22 35 38.8–.70 3N–5.0 129E–3.0 53–20 5.2b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC I 02 07 29 22.6–.93 0.67S–.06 127.46E–.05 11–6 3.5b 26 0-153
ISCJB I 02 07 29 22.0–.58 0.67S–.05 127.48E–.04 16–5 4.1s,3.6b **¶15937906**
IDC I 02 07 29 21.2–.89 0.67S 127.45E 0 4.0,4.0s
DJA I 02 07 29 22.6–.40 1S–3.0 127E–4.0 10 3.6,3.6
NEIC I 02 07 29 25.8–.54 0.69S 127.53E 35 3.8b,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.9km s-min=6.5km az=164.7.
IDC Error ellipse: s-maj=33.8km s-min=19.5km az=68.0.
NEIC Event type fe. Error ellipse: s-maj=11.9km s-min=9.1km az=53.0. Felt [III] at Labuha.

ISC I 02 19 11 35.8–.75 1.15N–.06 127.63E–.05 10 4.2b,3.0s 30 0-73
ISCJB I 02 19 11 33.6–.50 1.25N–.04 127.61E–.03 10 4.2b,3.1s **¶16026437**
IDC I 02 19 11 33.4–.85 1.09N 127.55E 0 4.1,4.0
DJA I 02 19 11 36.9–.60 1N–3.0 128E–2.0 14–3 4.7b,4.5b
NEIC I 02 19 11 38.2–.87 0.96N 127.38E 35 4.5b,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.6km az=17.4.
IDC Error ellipse: s-maj=49.7km s-min=15.2km az=60.0.
NEIC Event type fe. Error ellipse: s-maj=72.2km s-min=10.9km az=69.0. Felt [II] on Pulau Ternate.

IDC I 03 07 00 06.2–2.0 2.64N 128.36E 207–21 4.3s,4.3
¶17189301

IDC Error ellipse: s-maj=59.7km s-min=10.6km az=65.0.

IDC I 03 08 47 25.7–2.2 2.86N 128.00E 0 3.5,3.4
¶17189313

IDC Error ellipse: s-maj=162.3km s-min=23.6km az=67.0.

IDC I 05 02 40 13.0–2.3 1.54N 127.95E 0 3.7,3.5
¶17189474

IDC Error ellipse: s-maj=116.2km s-min=23.4km az=61.0.

IDC I 05 13 45 03.3–3.0 2.27N 128.44E 238–31 3.6,3.2
¶17189509

IDC Error ellipse: s-maj=55.9km s-min=22.7km az=72.0.

ISC I 05 16 26 24.3–.64 1.63N–.07 128.83E–.05 35 3.9b 37 2-86
DJA I 05 16 26 06.7–1.1 3N–10 129E–6.0 146–15 4.6b,4.3 **¶15977969**
IDC I 05 16 26 19.3–.68 1.70N 128.86E 0 4.0,3.9
ISCJB I 05 16 26 22.4–.39 1.64N–.04 128.87E–.04 35 4.0b,3.9
NEIC I 05 16 26 23.2–4.9 1.65N 128.85E 25–37 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=34.1km s-min=14.0km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=147.4.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=9.6km az=47.0.

IDC I 05 17 39 30.1–1.4 1.53N 128.49E 0 3.4,3.2
¶17189525

IDC Error ellipse: s-maj=74.8km s-min=21.9km az=65.0.

IDC I 06 09 09 41.1–3.8 2.08N 128.65E 140–42 4.0,3.6
¶17189580

IDC Error ellipse: s-maj=95.1km s-min=14.7km az=70.0.

ISC I 06 09 32 56.3–.97 1.17N–.06 127.6E–.20 10 3.6b 10 0-60
IDC I 06 09 32 55.5–1.5 1.18N 127.57E 0 3.8,3.7 **¶17189583**
DJA I 06 09 32 57.0–.80 1N–4.0 127E–12 10 3.7,3.7
ISC Event type ke.

IDC I 07 17 44 44.8–2.2 1.61N 127.04E 0 3.7,3.5
¶17189650

IDC Error ellipse: s-maj=183.4km s-min=24.3km az=66.0.

ISC I 07 23 05 08.1–.58 2.88N–.07 128.37E–.08 35 4.1b 29 2-125
ISCJB I 07 23 05 05.8–.43 2.93N–.04 128.40E–.07 33 4.1b **¶16017955**
NEIC I 07 23 05 07.8–.42 2.87N 128.40E 35 4.1b
IDC I 07 23 05 09.0–2.9 2.85N 128.40E 46–31 4.2L,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=5.9km az=161.5.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.9km az=74.0.
IDC Error ellipse: s-maj=38.0km s-min=14.7km az=68.0.

ISC I 09 19 13 28.1–.87 1.85S–.05 128.27E–.06 33 16 1-63
IDC I 09 19 13 23.9–2.1 1.90S 128.20E 0 3.6,3.4 **¶17189787**
ISCJB I 09 19 13 26.9–.57 1.71S–.06 128.27E–.05 33 3.5b,3.4
DJA I 09 19 13 28.2–.30 2S–3.0 128E–3.0 95–15 4.0b,3.4
ISC Event type ke.
ISCJB Event type ke.

IDC I 10 00 20 53.8–1.9 2.71N 128.21E 0 3.7,3.6
¶17189801

IDC Error ellipse: s-maj=132.9km s-min=23.8km az=66.0.

ISC I 11 01 15 44.4–.57 2.03N–.06 128.28E–.06 92 4.2b 45 1-125
ISCJB I 11 01 15 43.2–.39 2.09N–.03 128.33E–.04 92 4.2b **¶15994815**
NEIC I 11 01 15 45.5–1.4 1.93N 128.42E 110–14 4.4b
IDC I 11 01 15 48.0–2.0 1.90N 128.43E 132–20 4.3,4.0
DJA I 11 01 15 49.4–.50 2N–4.0 128E–3.0 92–5 5.1b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

IDC I 12 02 42 27.2–2.4 2.43N 128.78E 263–29 3.9,3.5
¶17189964

IDC Error ellipse: s-maj=50.5km s-min=14.9km az=67.0.

IDC I 13 08 14 40.0–2.1 0.43S 127.63E 0 3.9,3.7
¶17190042

IDC Error ellipse: s-maj=169.1km s-min=25.5km az=67.0.

ISC I 15 10 20 56.2–.79 1.87N–.07 127.28E–.09 112 3.9b 20 1-69
IDC I 15 10 20 43.0–.98 1.84N 127.24E 0 4.2,4.0 **¶17190239**
ISCJB I 15 10 20 54.4–.60 1.93N–.05 127.27E–.08 112 4.0b,4.0
DJA I 15 10 20 55.1–.70 2N–6.0 127E–5.0 116–6 4.1b,3.9
ISC Event type ke.
ISCJB Event type ke.

ISC I 17 23 12 57.9–.84 1.18S–.05 129.38E–.05 20 3.7b 18 2-63
IDC I 17 23 12 54.1–2.3 1.04S 129.68E 0 3.8,3.7L **¶17190434**
ISCJB I 17 23 12 56.6–.63 1.15S–.06 129.41E–.05 20 3.7b,3.2s
DJA I 17 23 12 57.8–.30 1S–4.0 129E–2.0 10 4.9b,4.7b
ISC Event type ke.
ISCJB Event type ke.

ISC I 20 00 05 37.5–1.0 1.6N–.10 127.25E–.08 134–8 3.2b 11 1-60
IDC I 20 00 05 22.6–2.0 1.65N 127.18E 0 3.5,3.4 **¶17190585**
ISCJB I 20 00 05 36.2–.83 1.6N–.10 127.26E–.07 137–6 3.3b,3.4
DJA I 20 00 05 40.5–1.3 2N–5.0 127E–3.0 14–14 4.3b,3.8
ISC Event type ke.
ISCJB Event type ke.

ISC I 20 12 42 58.1–.73 0.39N–.08 129.94E–.06 35 3.9b 31 2-77
IDC I 20 12 42 53.2–.86 0.29N 129.90E 0 4.0,3.9 **¶16151940**
DJA I 20 12 42 55.6–2.7 0N–7.0 130E–4.0 23–37 4.6b,4.3
ISCJB I 20 12 42 56.2–.50 0.38N–.06 129.89E–.04 33 3.9b,3.3s
NEIC I 20 12 42 58.5–.56 0.13N 129.75E 35 4.1b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=42.8km s-min=13.9km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=4.5km az=31.0.
NEIC Event type se. Error ellipse: s-maj=15.6km s-min=8.7km az=225.0.

ISC I 21 08 11 08.0–.38 1.55N–.03 127.22E–.04 105–3 5.0b 485 1-167
MOS I 21 08 11 05.7–1.1 1.56N 127.23E 97 5.1b **¶15948013**
BJI I 21 08 11 05.6 1.35N 127.28E 111 5.0b,5.0b
ISCJB I 21 08 11 06.2–.29 1.59N–.02 127.26E–.02 102–2 5.0b,5.0b
IDC I 21 08 11 07.2–1.3 1.51N 127.25E 101–11 4.8,4.5
KLM I 21 08 11 07.3 1.46N 127.14E 100 5.7s,5.4b
NEIC I 21 08 11 07.6–.45 1.54N 127.25E 103–4 5.2b,5.4b
DJA I 21 08 11 07.7–.30 2N–2.0 127E–2.0 88–4 6.0,5.5b
GCMT I 21 08 11 07.6–.30 1.69N 127.18E 90–3 4.9W,5.5b
ISC Event type se.
MOS Error ellipse: s-maj=11.1km s-min=5.6km az=110.3.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.5km az=150.4.
IDC Error ellipse: s-maj=13.8km s-min=7.2km az=71.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=2.9km az=58.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c33; s72,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.34±.13 $M_{\theta\theta}$0.67±.12; $M_{\phi\phi}$-3.01±.13; $M_{r\theta}$-1.04±.08; $M_{\theta\phi}$-0.89±.14; $M_{\phi r}$-0.79±.12; Best double couple: NP1:ϕ_s213.00000° ,δ59.00000°,λ116.00000°. NP2:ϕ_s350.00000°,δ40.00000°,λ54.00000°. Principal axes: T 2.8580,Plg66.0000°,Azm172.0000°; N 0.5370,Plg22.0000°,Azm19.0000°

; P -3.3950,Plg10.0000°,Azm285.0000° $M_0$3.12700×10^{16}
ISC I 22 14 56 10.2–.41 2.54N–.03 128.30E–.04 161–3 4.7b 298 2-159
BJI I 22 14 56 05.2 2.11N 128.58E 165 4.8b,4.6b **¶15958003**
MOS I 22 14 56 07.2–.95 2.59N 128.27E 152 4.7b,4.6b
ISCJB I 22 14 56 08.9–.38 2.57N–.02 128.34E–.03 164–3 4.7b,4.6b
NEIC I 22 14 56 08.9–.28 2.52N 128.32E 156 4.9b,4.6b
IDC I 22 14 56 09.8–.50 2.57N 128.30E 159–4 4.6,4.3
KLM I 22 14 56 10.7 2.57N 128.51E 165 6.2s,4.9b
DJA I 22 14 56 10.8–.30 3N–3.0 128E–2.0 154–3 5.3b,5.1b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 24 15 26 47.8–1.4 0.56N 129.54E 0 3.6,3.4
¶17190901

IDC Error ellipse: s-maj=56.8km s-min=18.1km az=51.0.
ISC I 25 01 36 49.0–.86 1.00S–.04 127.10E–.05 34 3.7b 20 1-125
ISCJB I 25 01 36 48.0–.48 0.99S–.04 127.04E–.05 34 3.7b **¶17190931**
DJA I 25 01 36 48.4–.60 1S–2.0 127E–3.0 31–8 3.6,3.6
IDC I 25 01 36 54.4–2.6 1.12S 126.91E 84–27 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.2km az=21.8.
IDC Error ellipse: s-maj=22.9km s-min=20.1km az=171.0.
ISC I 26 19 11 49.8–.56 2.00N–.07 127.24E–.07 112 4.4b 43 1-91
ISCJB I 26 19 11 48.0–.35 2.03N–.04 127.36E–.05 112 4.3b **¶16135881**
NEIC I 26 19 11 49.0–.91 1.97N 127.42E 106–9 4.7b
IDC I 26 19 11 49.4–1.5 1.99N 127.36E 107–13 4.4,4.1
DJA I 26 19 12 00.2–.30 1N–4.0 127E–2.0 10 4.9b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 27 23 46 21.3–18 1.39N 127.13E 170–189 3.6,3.6L
¶17191159

IDC Error ellipse: s-maj=96.5km s-min=32.6km az=62.0.
ISC I 29 01 38 54.2–.54 1.86N–.05 127.43E–.07 112 4.2b 52 1-124
ISCJB I 29 01 38 52.3–.37 1.91N–.03 127.37E–.04 112 4.2b **¶16136084**
NEIC I 29 01 38 52.8–.99 1.85N 127.55E 99–9 4.3b
DJA I 29 01 38 53.0–.40 2N–3.0 127E–3.0 97–7 5.2b,4.8
IDC I 29 01 38 55.2–1.9 1.79N 127.53E 123–17 4.3,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.6km az=165.3.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=6.6km az=65.0.
IDC Error ellipse: s-maj=26.1km s-min=10.1km az=80.0.
ISC I 30 16 41 25.0–.67 0.49N–.03 128.77E–.03 28–4 4.9b,4.1s 344 1-157
BJI I 30 16 41 15.8 0.11N 128.93E 5 5.1b,4.7b **¶15981255**
IDC I 30 16 41 19.9–.40 0.51N 128.61E 0 4.5,4.5
ISCJB I 30 16 41 21.7–.86 0.56N–.02 128.77E–.02 17–6 4.9b,4.2s
NEIC I 30 16 41 23.0–2.8 0.51N 128.63E 17–17 4.9b,4.2s
GCMT I 30 16 41 23.0–.20 0.53N 128.67E 18–1 5.0W,4.2s
MOS I 30 16 41 23.6–1.2 0.56N 128.70E 33 5.1b,4.2s
DJA I 30 16 41 24.9–.60 0N–1.0 129E–1.0 10–4 5.5b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c34; s78,c114;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.05±.17 $M_{\theta\theta}$2.41±.10; $M_{\phi\phi}$-0.35±.11; $M_{r\theta}$2.41±.27; $M_{\theta\phi}$-0.47±.07; $M_{\phi r}$-1.99±.35; Best double couple: NP1:ϕ_s303.00000°,δ73.00000°,λ-73.00000°. NP2:ϕ_s76.00000°,δ24.00000°,λ-134.00000°. Principal axes: T 3.8580,Plg26.0000°,Azm20.0000°; N 0.0490,Plg16.0000°,Azm118.0000° ; P -3.9030,Plg58.0000°,Azm236.0000° $M_0$3.88000×10^{16}
IDC I 30 16 53 31.1–1.3 0.60N 128.19E 0 3.9,3.7
¶17191337

IDC Error ellipse: s-maj=119.5km s-min=19.5km az=70.0.
IDC I 30 17 13 59.9–1.4 0.54N 128.63E 0 3.5,3.3
¶17191339

IDC Error ellipse: s-maj=50.2km s-min=22.2km az=53.0.
ISC I 30 17 21 10.0–.80 0.46N–.06 128.61E–.05 35 3.7b 28 1-87
IDC I 30 17 21 04.8–.98 0.37N 128.34E 0 3.9,3.7 **¶17191341**
DJA I 30 17 21 06.8–.90 0N–3.0 129E–2.0 17–11 4.8b,4.2b
ISCJB I 30 17 21 07.6–.52 0.48N–.04 128.62E–.03 33 3.8b,4.2b
ISC Event type ke.
ISCJB Event type ke.
DJA II 02 07 23 23.4–.40 2S–4.0 128E–2.0 10 4.6b,4.1
¶602000939
ISC II 02 16 31 01.7–.58 0.52N–.06 128.65E–.05 35 3.9b 49 1-65
IDC II 02 16 30 56.7–.76 0.53N 128.71E 0 4.0,3.9 **¶16026086**
DJA II 02 16 30 58.1–.40 0N–4.0 129E–2.0 10 5.1b,4.7b
ISCJB II 02 16 30 59.3–.30 0.49N–.03 128.66E–.03 33 4.0b,4.7b
NEIC II 02 16 31 01.5–.54 0.53N 128.65E 35 4.1b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=14.3km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.1km az=20.1.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=9.8km az=67.0.
ISC II 07 05 41 58.1–.87 1.77N–.08 127.36E–.08 112 3.9b 18 0-60
ISCJB II 07 05 41 55.6–.80 1.88N–.08 127.50E–.08 112 3.8b **¶17191848**
DJA II 07 05 41 55.1–1.1 2N–7.0 127E–10 88–11 4.9b,4.5b
IDC II 07 05 42 04.5–4.2 1.48N 127.07E 170–43 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=11.7km az=157.1.
IDC Error ellipse: s-maj=30.8km s-min=15.0km az=61.0.
IDC II 07 10 00 56.5–11 1.57S 128.23E 0 4.1,4.0b
¶17191855

IDC Error ellipse: s-maj=179.0km s-min=144.1km az=134.0.
IDC II 07 18 03 59.2–1.9 0.30N 128.03E 0 3.9,3.7
¶17191870

IDC Error ellipse: s-maj=177.9km s-min=21.9km az=68.0.
ISC II 07 18 23 23.7–.89 0.99S–.06 127.56E–.07 31 24 0-62
IDC II 07 18 23 19.1–2.0 1.00S 127.33E 0 3.6,3.4 **¶17191872**
ISCJB II 07 18 23 22.7–.47 0.82S–.04 127.54E–.04 31 3.7b,3.4
DJA II 07 18 23 23.1–.50 1S–2.0 128E–3.0 10–5 5.0b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC II 10 13 53 02.2–.00 2.9N–.10 128.6E–.10 200 4.0b 20 2-62
IDC II 10 13 52 56.7–9.7 2.67N 128.51E 145–101 4.1,3.8 **¶17192012**
ISCJB II 10 13 53 02.2–.56 2.95N–.05 128.53E–.07 200 3.8b,3.8
DJA II 10 13 53 05.1–1.5 3N–15 128E–6.0 165–20 5.0b,4.6b
ISC Event type ke.
ISCJB Event type ke.
IDC II 11 14 59 45.5–3.6 2.70N 128.55E 0 3.6,3.4
¶17192082

IDC Error ellipse: s-maj=294.6km s-min=26.6km az=68.0.
ISC II 12 22 27 18.4–.74 1.98N–.10 127.9E–.10 10 4.1b 16 11-73
ISCJB II 12 22 27 16.5–.49 1.97N–.07 127.94E–.09 10 4.1b **¶16328817**
IDC II 12 22 27 16.7–1.1 1.98N 127.98E 0 4.2,4.2L
NEIC II 12 22 27 21.9–.31 1.94N 127.94E 35 4.2b,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=9.4km az=163.4.
IDC Error ellipse: s-maj=51.2km s-min=15.8km az=71.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.9km az=75.0.
ISC II 15 12 10 02.7–1.1 1.12N–.09 127.34E–.08 150 3.8b 20 0-60
ISCJB II 15 12 10 00.5–.85 1.19N–.08 127.39E–.06 150 3.7b **¶17192301**
DJA II 15 12 10 01.1–.60 1N–5.0 127E–5.0 93–14 5.2b,4.6
IDC II 15 12 10 05.8–7.9 0.98N 127.20E 174–73 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.8km az=23.4.
IDC Error ellipse: s-maj=64.6km s-min=15.9km az=56.0.
IDC II 17 10 35 07.6–1.9 1.35N 127.08E 0 3.6,3.5
¶17192411

IDC Error ellipse: s-maj=186.6km s-min=21.8km az=67.0.
IDC II 22 14 06 42.8–2.1 0.16S 127.39E 0 3.5,3.4
¶17192706

IDC Error ellipse: s-maj=169.1km s-min=26.0km az=66.0.
IDC II 24 02 55 35.5–2.0 2.35N 128.54E 0 3.7,3.5b
¶17192769

IDC Error ellipse: s-maj=148.9km s-min=23.7km az=67.0.
IDC II 24 21 10 19.6–1.9 2.35N 128.19E 0 4.0,3.8
¶17192806

IDC Error ellipse: s-maj=136.3km s-min=23.1km az=66.0.
IDC II 27 23 17 09.5–2.6 0.53S 129.40E 0 3.5,3.3
¶17192970

IDC Error ellipse: s-maj=190.5km s-min=25.9km az=69.0.
IDC II 28 06 49 31.8–1.4 1.69N 127.60E 0 4.0,3.8
¶17192985

IDC Error ellipse: s-maj=147.6km s-min=19.3km az=69.0.
IDC III 02 17 47 20.6–2.2 1.97S 128.21E 0 3.5L,3.4
¶17193153

IDC Error ellipse: s-maj=177.4km s-min=25.2km az=68.0.
IDC III 03 23 44 15.5–2.3 1.63N 127.15E 0 3.5,3.3
¶17193212

IDC Error ellipse: s-maj=188.4km s-min=26.7km az=66.0.
IDC III 07 19 30 28.6–11 1.73S 127.89E 0 3.6,3.5
¶17193427

IDC Error ellipse: s-maj=170.9km s-min=140.3km az=126.0.
IDC III 08 08 27 47.9–1.3 2.80N 128.98E 0 3.9,3.8
¶17193460

IDC Error ellipse: s-maj=82.8km s-min=17.6km az=66.0.
IDC III 09 14 04 47.6–1.7 1.93N 127.89E 0 4.3L,4.0
¶17193559

IDC Error ellipse: s-maj=59.7km s-min=24.5km az=69.0.
ISC III 09 23 31 20.3–.96 0.15S–.09 127.22E–.08 150 3.8b 16 1-61
IDC III 09 23 31 03.8–1.3 0.02N 127.05E 0 4.1s,4.1 **¶17193587**
ISCJB III 09 23 31 18.4–.67 0.10S–.06 127.18E–.08 150 3.6b,4.1
DJA III 09 23 31 22.4–.60 0S–4.0 127E–4.0 101–6 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 10 16 38 43.0–2.0 0.30S 127.63E 0 3.8,3.6
¶17193641

IDC Error ellipse: s-maj=168.6km s-min=23.8km az=67.0.
ISC III 13 16 26 27.3–.60 2.09N–.07 128.42E–.09 250 3.8b 27 2-86
ISCJB III 13 16 26 26.0–.47 2.19N–.06 128.48E–.07 250 3.7b **¶17194920**
IDC III 13 16 26 26.9–2.1 2.13N 128.52E 243–20 4.1,3.5
DJA III 13 16 26 35.0–1.7 2N–7.0 128E–11 195–18 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 12 09 11.6–1.9 1.90N 127.23E 0 3.7,3.5
¶17196134

IDC Error ellipse: s-maj=177.2km s-min=21.5km az=67.0.
ISC III 16 21 35 56.8–.38 2.26N–.04 128.41E–.06 92 4.6b 153 3-125
ISCJB III 16 21 35 55.3–.24 2.27N–.03 128.42E–.03 92 4.5b **¶16461824**
NEIC III 16 21 35 57.2–.76 2.23N 128.40E 99–7 4.7b
IDC III 16 21 35 57.9–2.1 2.24N 128.44E 104–18 4.4,4.2
DJA III 16 21 35 58.5–.40 2N–3.0 128E–2.0 66–4 5.2b,5.0
MAN III 16 21 36 49 5.60N 126.03E 14 4.8b,3.7L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=169.6.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=4.1km az=67.0. Felt [III] at Morotai.
IDC Error ellipse: s-maj=21.7km s-min=9.8km az=78.0.
IDC III 17 19 34 43.6–2.4 2.31N 128.27E 0 3.6,3.4
¶17196783

IDC Error ellipse: s-maj=154.9km s-min=28.3km az=68.0.
ISC III 20 09 21 04.9–.63 2.26N–.04 128.24E–.05 150–5 4.6b 214 3-148
BJI III 20 09 20 55.1 1.51N 128.96E 144 5.0b,4.6b **¶16339581**
KLM III 20 09 21 00.5 2.00N 128.60E 100 6.0s,4.8b
ISCJB III 20 09 21 03.3–.54 2.29N–.03 128.26E–.03 148–5 4.5b,4.8b
MOS III 20 09 21 04.1–.90 2.31N 128.16E 158 4.8b,4.8b
NEIC III 20 09 21 04.6–.71 2.30N 128.30E 147–7 4.8b,4.8b
IDC III 20 09 21 04.0–1.8 2.26N 128.27E 144–15 4.5,4.2
DJA III 20 09 21 06.8–.50 2N–4.0 128E–3.0 103–11 5.2b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC III 21 15 11 39.5–1.3 1.97N 127.53E 0 4.0,3.9b
¶17197691

IDC Error ellipse: s-maj=117.7km s-min=18.8km az=69.0.
ISC III 23 16 19 49.3–.92 0.78S–.07 127.52E–.08 32–7 3.8b 16 0-62
IDC III 23 16 19 45.0–1.4 0.98S 127.32E 0 4.0L,3.9 **¶17198221**
ISCJB III 23 16 19 48.5–.62 0.79S–.06 127.51E–.06 40–7 3.7b,3.9
DJA III 23 16 19 49.3–.30 1S–6.0 127E–3.0 21–7 5.1b,5.0b
ISC Event type ke.
ISCJB Event type ke.
IDC III 27 11 58 27.2–1.3 2.32N 128.52E 0 4.2,4.0b
¶17198787

IDC Error ellipse: s-maj=172.1km s-min=16.4km az=70.0.
IDC III 28 03 15 27.7–1.8 0.16N 129.84E 0 4.2,4.1
¶17198894

IDC Error ellipse: s-maj=191.6km s-min=16.7km az=70.0.
IDC III 28 04 04 27.4–1.9 0.15N 129.92E 0 3.6,3.4
¶17198901

IDC Error ellipse: s-maj=128.2km s-min=23.6km az=68.0.
ISC III 31 19 54 18.8–.68 2.72N–.09 128.8E–.20 250 3.7b 18 12-92
ISCJB III 31 19 54 17.3–.51 2.75N–.07 128.7E–.20 250 3.6b **¶17199343**
IDC III 31 19 54 18.1–2.4 2.72N 128.73E 242–26 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.1km s-min=9.1km az=177.9.
IDC Error ellipse: s-maj=25.0km s-min=9.4km az=82.0.
IDC IV 02 10 53 05.9–2.3 1.28N 127.52E 0 4.0,3.8
¶17199516

IDC Error ellipse: s-maj=230.8km s-min=21.2km az=67.0.
ISC IV 03 01 48 20.0–.87 1.82N–.08 127.23E–.08 112 4.2b 21 1-81
DJA IV 03 01 48 13.9–4.7 2N–26 128E–32 133–24 5.1b,4.5b **¶16512205**
ISCJB IV 03 01 48 18.0–.68 1.90N–.06 127.28E–.07 112 4.1b,4.5b
NEIC IV 03 01 48 21.5–1.1 1.69N 127.25E 127–10 4.2b,4.5b
IDC IV 03 01 48 25.5–5.6 1.59N 127.10E 162–57 4.3,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=7.7km az=151.6.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=12.4km az=68.0.
IDC Error ellipse: s-maj=41.0km s-min=15.7km az=69.0.
IDC IV 03 06 54 40.3–1.7 1.91N 127.34E 0 4.1,4.0L
¶17199628

IDC Error ellipse: s-maj=103.3km s-min=22.4km az=68.0.
IDC IV 03 10 08 38.7–17 2.35N 128.03E 385–206 4.0,3.4
¶17199641

IDC Error ellipse: s-maj=96.7km s-min=30.5km az=52.0.
ISC IV 04 08 49 42.6–.73 1.84N–.09 127.6E–.10 112 4.6b 20 1-124
ISCJB IV 04 08 49 40.7–.53 1.87N–.06 127.52E–.09 112 4.6b **¶16506187**
NEIC IV 04 08 49 45.0–.83 1.80N 127.49E 139–7 4.9b
IDC IV 04 08 49 46.1–7.2 1.77N 127.40E 147–63 4.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.7km az=10.1.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=7.5km az=71.0.
IDC Error ellipse: s-maj=57.6km s-min=15.3km az=59.0.
IDC IV 05 23 44 48.1–2.8 0.05S 128.09E 0 3.7,3.5
¶17199939

IDC Error ellipse: s-maj=242.9km s-min=27.4km az=67.0.
ISC IV 09 15 16 52.7–.51 1.76N–.06 128.78E–.05 35 4.3b 54 2-125
ISCJB IV 09 15 16 51.0–.31 1.83N–.03 128.80E–.04 35 4.3b **¶16577773**
DJA IV 09 15 16 53.2–.70 2N–6.0 129E–3.0 10 5.1b,5.0b
IDC IV 09 15 16 53.5–2.5 1.73N 128.75E 42–25 4.2,4.2L
NEIC IV 09 15 16 54.6–1.3 1.69N 128.66E 57–13 4.5b,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.5km az=158.5.
IDC Error ellipse: s-maj=18.1km s-min=12.3km az=72.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.9km az=55.0.

IDC IV 11 12 20 21.3–1.6 1.20S 129.95E 0 4.2b,4.0 ¶17200611
IDC Error ellipse: s-maj=123.5km s-min=21.4km az=72.0.
IDC IV 11 12 21 52.4–8.6 1.85S 127.78E 393–105 4.1,3.5 ¶17200612
IDC Error ellipse: s-maj=62.9km s-min=27.0km az=50.0.
ISC IV 14 03 28 49.2–.73 1.90N–.07 127.6E–.10 112 4.2b 25 1-124
ISCJB IV 14 03 28 47.4–.50 1.94N–.05 127.68E–.08 112 4.2b **¶16529595**
NEIC IV 14 03 28 52.5–2.3 1.77N 127.60E 149–21 4.3b
IDC IV 14 03 28 53.5–5.5 1.72N 127.49E 156–53 4.2,3.9
DJA IV 14 03 28 54.8–.80 2N–5.0 127E–7.0 100–7 4.2,4.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 16 01 25 10.8–.59 1.74N–.05 127.28E–.06 100 4.4b 52 1-124
ISCJB IV 16 01 25 09.4–.39 1.80N–.04 127.31E–.04 100 4.2b **¶16545152**
NEIC IV 16 01 25 11.8–.59 1.51N 127.18E 108–5 4.3b
DJA IV 16 01 25 11.3–.40 2N–3.0 127E–3.0 66–8 5.3b,4.9b
IDC IV 16 01 25 13.4–3.1 1.53N 127.16E 123–27 4.4,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.4km az=143.9.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.4km az=56.0.
IDC Error ellipse: s-maj=31.1km s-min=9.9km az=73.0.
IDC IV 16 21 21 59.9–2.3 2.60N 128.58E 0 3.5,3.3 ¶17201261
IDC Error ellipse: s-maj=165.8km s-min=24.7km az=68.0.
IDC IV 17 16 31 23.0–1.6 2.78N 129.45E 0 4.0,3.9 ¶17201339
IDC Error ellipse: s-maj=92.3km s-min=23.1km az=65.0.
ISC IV 18 08 00 03.2–.82 2.28N–.08 128.30E–.09 100 4.0b 25 2-74
IDC IV 18 07 59 52.6–1.1 1.71N 126.85E 0 4.3,4.1 **¶16631129**
NEIC IV 18 07 59 57.8–.64 1.65N 126.68E 35 4.3b,4.1
ISCJB IV 18 08 00 01.7–.56 2.32N–.06 128.31E–.05 100 4.1b,4.1
DJA IV 18 08 00 04.8–.50 2N–5.0 128E–3.0 58–10 5.4b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 19 22 53 35.8–2.2 1.66N 127.21E 0 3.9,3.7 ¶17201559
IDC Error ellipse: s-maj=184.5km s-min=24.0km az=66.0.
ISC IV 25 15 45 10.9–.80 2.94N–.10 128.9E–.20 44 3.9b,3.1s 13 12-85
IDC IV 25 15 45 05.1–.88 3.04N 129.04E 0 4.0,3.8b **¶16577887**
ISCJB IV 25 15 45 09.4–.63 2.95N–.08 128.8E–.10 44 3.8b,3.2s
NEIC IV 25 15 45 10.1–.50 2.96N 128.91E 35 4.0b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=40.1km s-min=16.1km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=20.7km s-min=10.9km az=171.8.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=8.6km az=82.0.
IDC IV 26 18 16 18.0–1.2 2.29N 128.57E 0 4.0L,3.9 ¶17202174
IDC Error ellipse: s-maj=92.8km s-min=18.7km az=66.0.
ISC IV 26 18 39 26.6–.99 2.27N–.05 128.79E–.05 41–9 4.5b,3.6s 138 2-125
ISCJB IV 26 18 39 24.8–.85 2.29N–.04 128.83E–.04 41–8 4.5b,3.6s **¶16462182**
DJA IV 26 18 39 26.0–.40 2N–4.0 129E–2.0 10 5.0b,4.8b
IDC IV 26 18 39 27.5–2.4 2.35N 128.79E 44–23 4.5L,4.3
NEIC IV 26 18 39 28.0–.90 2.33N 128.77E 54–9 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.5km az=142.0.
IDC Error ellipse: s-maj=24.4km s-min=12.0km az=81.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=70.0.
ISC IV 30 09 44 56.8–1.1 1.8N–.10 127.6E–.20 103 4.0b 13 10-124
IDC IV 30 09 45 05.2–2.5 1.50N 126.98E 170–23 4.0,3.7 **¶16505588**
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=10.7km az=78.0.
IDC V 01 15 53 18.1–1.4 1.91N 127.40E 0 3.9,3.8 ¶17202531
IDC Error ellipse: s-maj=53.5km s-min=22.5km az=71.0.
ISC V 04 15 53 34.8–1.2 1.7N–.10 127.5E–.10 128 4.0b 10 10-81
ISCJB V 04 15 53 33.0–1.2 1.7N–.10 127.5E–.10 128 3.9b **¶17202770**
IDC V 04 15 53 36.3–7.1 1.66N 127.39E 142–62 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=13.7km az=150.5.
IDC Error ellipse: s-maj=57.1km s-min=17.3km az=59.0.
ISC V 05 15 06 24.1–.39 2.75N–.05 128.54E–.06 250 4.9b 104 5-127
ISCJB V 05 15 06 22.8–.21 2.77N–.03 128.63E–.04 250 4.9b **¶16708920**
NEIC V 05 15 06 22.5–.79 2.80N 128.67E 230–8 5.1b
IDC V 05 15 06 23.2–2.0 2.75N 128.60E 238–20 4.7,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.9km az=154.3.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.4km az=63.0.
IDC Error ellipse: s-maj=22.7km s-min=9.0km az=68.0.
IDC V 05 18 15 51.6–2.3 1.64N 127.55E 0 3.4,3.2 ¶17202874
IDC Error ellipse: s-maj=186.4km s-min=25.2km az=67.0.
IDC V 06 09 16 59.1–1.7 0.37S 128.25E 0 3.8,3.6 ¶17202911
IDC Error ellipse: s-maj=117.9km s-min=23.4km az=66.0.
IDC V 06 21 29 48.2–6.8 0.34N 127.33E 121–39 3.9,3.6 ¶17202953
IDC Error ellipse: s-maj=127.1km s-min=23.8km az=167.0.
ISC V 07 05 48 47.3–.31 2.79N–.04 128.56E–.06 250 4.5b 143 4-148
ISCJB V 07 05 48 45.8–.18 2.86N–.02 128.59E–.04 250 4.5b **¶16578049**
IDC V 07 05 48 45.0–1.3 2.88N 128.67E 229–12 4.6,4.1
NEIC V 07 05 48 45.3–.86 2.91N 128.60E 229–9 4.7b,4.1
DJA V 07 05 48 50.1–.60 3N–8.0 129E–3.0 181–10 5.2b,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 07 13 49 26.5–2.7 2.92N 128.16E 0 3.4,3.3 ¶17202991
IDC Error ellipse: s-maj=205.8km s-min=26.7km az=68.0.
IDC V 07 21 42 01.5–3.0 2.64N 128.79E 0 4.2,4.0 ¶17203006
IDC Error ellipse: s-maj=310.0km s-min=23.7km az=66.0.
ISC V 11 07 54 31.0–.28 1.51N–.03 127.22E–.05 103 4.9b 286 2-167
ISCJB V 11 07 54 29.3–.18 1.58N–.02 127.29E–.03 103 4.9b **¶16503620**
BJI V 11 07 54 29.6 1.50N 127.20E 95 5.0b,4.9b
KLM V 11 07 54 29.9 1.32N 127.27E 89 6.5s,5.1b
MOS V 11 07 54 30.7–.87 1.55N 127.21E 119 4.9b,5.1b
GCMT V 11 07 54 31.2–.40 1.70N 126.74E 83–3 5.1W,5.1b
NEIC V 11 07 54 31.2–.65 1.53N 127.25E 108–6 5.2b,5.1b
IDC V 11 07 54 31.4–1.6 1.51N 127.29E 112–13 4.8,4.4
DJA V 11 07 54 32.1–.20 2N–2.0 127E–2.0 100–2 5.7b,5.4
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c24; s62,c86;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.54±.21 $M_{\theta\theta}$2.46±.21; $M_{\phi\phi}$-6.00±.24; $M_{r\theta}$-0.89±.13; $M_{\theta\phi}$3.31±.22; $M_{\phi r}$-0.01±.20; Best double couple: NP1:ϕ_s306.00000°,δ62.00000°,λ35.00000°. NP2:ϕ_s197.00000°,δ59.00000°,λ147.00000°. Principal axes: T 4.4170,Plg44.0000°,Azm162.0000°; N 2.7310,Plg46.0000°,Azm339.0000°; P -7.1480,Plg1.0000°,Azm71.0000° $M_0$5.78300×10^{16}
NEIC Event type se.
IDC V 12 17 14 47.0–13 1.73S 127.19E 0 4.0,3.8 ¶17203487
IDC Error ellipse: s-maj=197.9km s-min=102.3km az=141.0.
IDC V 15 11 34 58.8–14 0.51S 127.73E 0 4.1,3.9 ¶17203690
IDC Error ellipse: s-maj=227.1km s-min=150.3km az=151.0.
IDC V 17 16 39 37.3–3.5 2.80N 128.77E 231–31 3.7,3.3 ¶17203828
IDC Error ellipse: s-maj=56.2km s-min=12.2km az=66.0.

IDC V 19 03 05 29.3–13 1.75N 127.24E 562–196 3.8,3.1 ¶17203933
IDC Error ellipse: s-maj=101.9km s-min=42.7km az=49.0.
ISC V 20 05 10 02.6–.61 0.92S–.07 127.06E–.05 34 4.1b 36 2-89
IDC V 20 05 09 58.4–.77 0.96S 127.34E 0 4.3,4.2 **¶16591597**
ISCJB V 20 05 10 02.1–.39 0.95S–.05 126.90E–.04 34 4.2b,4.2
NEIC V 20 05 10 03.4–.59 1.02S 127.05E 35 4.4b,4.2
DJA V 20 05 10 04.6–1.5 1S–4.0 127E–2.0 24–17 5.0b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 20 22 42 18.3–1.6 1.13S 128.09E 0 3.8,3.7b ¶17204090
IDC Error ellipse: s-maj=112.5km s-min=23.7km az=76.0.
IDC V 23 16 14 57.4–2.4 1.22S 127.21E 0 3.3,3.1 ¶17204307
IDC Error ellipse: s-maj=213.3km s-min=28.1km az=66.0.
ISC V 24 17 30 24.6–.48 2.93N–.06 129.12E–.07 44 4.4b 47 4-85
ISCJB V 24 17 30 23.1–.33 2.98N–.04 129.02E–.05 44 4.4b **¶16710834**
IDC V 24 17 30 24.2–7.4 3.00N 128.96E 34–60 4.4L,4.1
NEIC V 24 17 30 25.7–1.0 2.97N 129.03E 52–10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.2km az=168.0.
IDC Error ellipse: s-maj=50.5km s-min=15.5km az=86.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.1km az=74.0.
ISC V 27 05 17 50.6–.34 1.22N–.04 128.16E–.05 23 4.9b,3.9s 197 2-125
IDC V 27 05 17 46.6–.56 1.23N 128.15E 0 4.7,4.6b **¶16549382**
ISCJB V 27 05 17 49.0–.17 1.22N–.02 128.21E–.03 23 4.9b,3.9s
DJA V 27 05 17 51.3–.60 1N–3.0 128E–2.0 24–6 5.4b,5.0b
NEIC V 27 05 17 53.7–.87 1.18N 128.16E 51–8 4.9b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=24.0km s-min=12.9km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.1km az=165.6.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=47.0.
IDC VI 01 08 01 43.8–13 2.06N 128.66E 0 3.8s,3.8 ¶17204872
IDC Error ellipse: s-maj=203.4km s-min=142.4km az=159.0.
IDC VI 01 11 13 24.8–1.6 1.61N 127.37E 0 4.2,4.2b ¶17204885
IDC Error ellipse: s-maj=99.2km s-min=20.9km az=68.0.
IDC VI 04 10 25 30.1–2.2 0.24N 128.37E 0 3.5,3.4 ¶17205185
IDC Error ellipse: s-maj=200.4km s-min=22.4km az=68.0.
ISC VI 04 16 34 59.3–.83 0.4N–.10 127.5E–.30 162 3.9b 11 8-71
ISCJB VI 04 16 34 57.5–.67 0.42N–.09 127.5E–.30 162 3.7b **¶17205238**
IDC VI 04 16 34 57.3–6.8 0.44N 127.54E 138–68 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.8km s-min=11.0km az=170.0.
IDC Error ellipse: s-maj=43.7km s-min=16.8km az=83.0.
IDC VI 05 07 55 21.9–2.6 1.68S 128.37E 0 3.3,3.2 ¶17205295
IDC Error ellipse: s-maj=195.1km s-min=29.3km az=68.0.
ISC VI 05 19 49 59.5–.47 2.74N–.06 128.48E–.07 35 4.3b,3.1s 62 3-125
ISCJB VI 05 19 49 58.0–.33 2.77N–.03 128.50E–.04 33 4.2b,3.3s **¶16856414**
NEIC VI 05 19 50 01.6–2.6 2.60N 128.47E 61–25 4.5b,3.3s
IDC VI 05 19 50 02.3–1.9 2.55N 128.33E 67–18 4.1,4.0
DJA VI 05 19 50 04.2–.50 3N–4.0 128E–3.0 50–6 5.5b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 06 05 41 11.7–14 1.40N 127.19E 182–142 3.8,3.7L ¶17205390
IDC Error ellipse: s-maj=131.1km s-min=18.3km az=58.0.
IDC VI 06 19 11 30.6–1.9 2.04N 128.18E 0 3.7,3.6 ¶17205427
IDC Error ellipse: s-maj=202.8km s-min=21.5km az=66.0.
IDC VI 08 19 20 43.0–2.1 0.21N 128.10E 0 3.5,3.3 ¶17205567
IDC Error ellipse: s-maj=140.5km s-min=28.2km az=67.0.
IDC VI 10 11 46 09.9–11 1.94S 127.36E 0 3.6,3.4 ¶17205705
IDC Error ellipse: s-maj=174.6km s-min=106.2km az=141.0.
IDC VI 10 18 36 27.9–2.7 2.53N 128.57E 230–27 3.8,3.3 ¶17205726
IDC Error ellipse: s-maj=47.6km s-min=12.0km az=80.0.
IDC VI 10 22 26 25.6–2.1 0.81N 127.43E 0 3.5,3.4 ¶17205737
IDC Error ellipse: s-maj=123.4km s-min=26.3km az=70.0.
IDC VI 11 02 11 16.9–1.7 1.87N 127.26E 0 4.1,4.0 ¶17205746
IDC Error ellipse: s-maj=98.1km s-min=22.2km az=68.0.
ISC VI 11 22 32 10.8–.62 0.27N–.09 127.4E–.10 35 4.2b 20 9-87
IDC VI 11 22 32 06.0–1.0 0.36N 127.55E 0 3.9,3.8 **¶16713627**
ISCJB VI 11 22 32 09.0–.46 0.31N–.06 127.5E–.10 35 4.3b,3.8
NEIC VI 11 22 32 12.0–1.5 0.30N 127.48E 45–16 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=48.0km s-min=17.1km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=8.8km az=179.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.5km az=69.0.
ISC VI 12 01 30 46.5–.46 1.66N–.05 127.27E–.06 128 4.5b 71 2-122
BJI VI 12 01 30 32.0 1.30N 127.46E 35 4.9b,4.5b **¶16591643**
NEIC VI 12 01 30 41.6–.68 1.84N 127.43E 78–7 4.7b,4.5b
ISCJB VI 12 01 30 44.9–.28 1.78N–.03 127.35E–.06 128 4.5b,4.5b
IDC VI 12 01 30 44.7–2.5 1.81N 127.49E 108–23 4.5,4.3
DJA VI 12 01 30 55.9–.60 1N–4.0 127E–4.0 46–23 4.9b,4.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 14 00 03 42.9–1.9 1.50N 127.05E 0 4.0,3.8 ¶17206075
IDC Error ellipse: s-maj=162.2km s-min=23.9km az=65.0.
IDC VI 17 14 48 06.8–2.1 1.33N 129.21E 0 3.7,3.6 ¶17206395
IDC Error ellipse: s-maj=139.3km s-min=20.1km az=73.0.
IDC VI 18 11 08 09.5–1.9 1.88N 127.52E 0 4.4,4.4s ¶17206455
IDC Error ellipse: s-maj=103.9km s-min=23.3km az=70.0.
IDC VI 21 02 25 37.5–2.2 1.99N 127.69E 326–24 3.9,3.3 ¶17206647
IDC Error ellipse: s-maj=67.8km s-min=11.9km az=71.0.
IDC VI 21 21 36 52.9–28 1.88N 127.79E 386–332 3.9,3.2 ¶17206701
IDC Error ellipse: s-maj=132.1km s-min=36.3km az=44.0.
IDC VI 23 23 36 40.2–2.3 2.88N 128.67E 0 3.8,3.6 ¶17206838
IDC Error ellipse: s-maj=156.5km s-min=24.9km az=68.0.
IDC VI 25 04 55 14.3–2.1 1.30N 127.31E 0 3.6,3.5 ¶17206903
IDC Error ellipse: s-maj=130.8km s-min=23.7km az=70.0.
IDC VI 27 03 58 08.0–2.1 0.89N 127.04E 0 3.8,3.6 ¶17207043
IDC Error ellipse: s-maj=168.3km s-min=26.6km az=66.0.
IDC VI 27 08 53 03.5–2.1 1.98S 128.34E 0 3.6,3.5b ¶17207058
IDC Error ellipse: s-maj=157.5km s-min=25.2km az=68.0.
ISC VI 27 20 20 10.5–1.1 1.42N–.05 128.33E–.06 88–10 4.6b 96 2-158
ISCJB VI 27 20 20 09.6–.64 1.43N–.04 128.34E–.04 95–6 4.6b **¶16721018**
NEIC VI 27 20 20 10.2–.94 1.46N 128.31E 87–9 4.6b
IDC VI 27 20 20 11.9–2.3 1.43N 128.29E 101–21 4.4,4.2
KLM VI 27 20 20 12.8 1.14N 128.23E 88 5.9s,4.8b
DJA VI 27 20 20 12.0–.40 1N–3.0 128E–3.0 81–4 5.2b,5.0b

ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**VI**	**28 15 13 50.5–.66**	**0.62S–.06**	**127.58E–.06**	**41**	**4.0b**	**39**	**0-72**
IDC	VI	28 15 13 44.7–.84	0.62S	127.69E	0	4.1,4.0		**¶16731711**
ISCJB	VI	28 15 13 48.3–.44	0.62S–.04	127.61E–.03	41	4.1b,3.5s		
NEIC	VI	28 15 13 50.5–1.1	0.67S	127.63E	46–12	4.7b,3.5s		
DJA	VI	28 15 13 50.4–.50	1S–3.0	128E–3.0	30	5.4b,4.8		
ISC	Event type fe.								
ISCJB	Event type fe.								
NEIC	Event type fe. Felt [III] at Labuha.								
ISC	**VI**	**29 15 16 47.4–.47**	**1.58N–.05**	**127.42E–.06**	**128**	**4.4b**	**73**	**2-81**
ISCJB	VI	29 15 16 45.4–.30	1.64N–.03	127.49E–.05	128	4.4b		**¶16702446**
NEIC	VI	29 15 16 48.5–1.4	1.63N	127.58E	148–13	4.4b		
IDC	VI	29 15 16 48.8–2.1	1.57N	127.36E	144–19	4.3,3.9		
DJA	VI	29 15 16 50.2–1.2	1N–3.0	127E–4.0	23–10	4.9,4.8		
ISC	Event type fe.								
ISCJB	Event type fe.								
NEIC	Event type fe. Felt [III] at Labuha.								
IDC	**VI**	**30 07 35 51.8–2.1**	**1.10N**	**127.06E**	**0**	**3.6,3.4**		
								¶17207241
IDC	Error ellipse: s-maj=174.3km s-min=24.9km az=66.0.							
IDC	**VI**	**30 09 09 27.0–2.2**	**2.91N**	**129.09E**	**0**	**3.7,3.5**		
								¶17207243
IDC	Error ellipse: s-maj=143.5km s-min=24.8km az=69.0.							

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ISC	**I**	**03 06 46 41.7–.57**	**2.40S–.04**	**121.52E–.05**	**22**	**3.9b**	**43**	**1-120**
IDC	I	03 06 46 38.3–.73	2.41S	121.55E	0	4.0,3.8		**¶16032738**
ISCJB	I	03 06 46 40.4–.33	2.43S–.03	121.53E–.04	22	3.8b,3.8		
NEIC	I	03 06 46 43.2–.40	2.44S	121.57E	35	4.0b,3.8		
DJA	I	03 06 46 43.6–2.7	2S–3.0	121E–3.0	39–35	5.1b,4.5		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**I**	**08 07 37 24.0–.97**	**1.86S–.04**	**120.51E–.06**	**33**	**3.1b**	**15**	**1-51**
IDC	I	08 07 37 19.0–1.6	1.78S	120.79E	0	3.5,3.4L		**¶17189679**
DJA	I	08 07 37 22.7–.30	2S–3.0	121E–3.0	10	3.6,3.6		
ISCJB	I	08 07 37 23.8–.55	1.88S–.04	120.55E–.06	33	3.2b,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**08 08 15 12.8–.29**	**1.14S–.04**	**120.07E–.04**	**10**	**4.9b,4.1s**	**214**	**0-161**
BJI	I	08 08 15 05.8	1.78S	120.50E	10	5.0b,4.9b		**¶15909062**
IDC	I	08 08 15 10.6–.43	1.05S	120.23E	0	4.6,4.5		
ISCJB	I	08 08 15 11.6–.17	1.08S–.02	120.05E–.02	10	4.8b,4.1s		
NEIC	I	08 08 15 12.9–.22	1.15S	120.09E	10	5.0b,4.1s		
GCMT	I	08 08 15 12.9–.20	1.05S	120.05E	23–1	5.0W,4.1s		
MOS	I	08 08 15 13.9–.91	1.00S	120.28E	33	4.8b,4.1s		
KLM	I	08 08 15 13.7	1.12S	119.98E	5	5.8s,5.7L		
DJA	I	08 08 15 15.1–.20	1S–3.0	120E–2.0	10	6.0,5.5b		
ISC	Event type fe.							
ISCJB	Event type fe.							
NEIC	Event type fe. Felt [IV] at Palu.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c44; s84,c126;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.01±.20 $M_{\theta\theta}$2.90±.15; $M_{\phi\phi}$-1.89±.18; $M_{r\theta}$0.59±.21; $M_{\theta\phi}$-3.68±.11; $M_{\phi r}$-1.08±.26; Best double couple: NP1:ϕ_s343.00000°,δ88.00000°,λ-16.00000°. NP2:ϕ_s73.00000°,δ74.00000°,λ-178.00000°. Principal axes: T 5.0720,Plg10.0000°,Azm29.0000°; N -1.0330,Plg74.0000°,Azm155.0000° ; P -4.0390,Plg13.0000°,Azm297.0000° $M_0$4.55600×10^{16}							
IDC	**I**	**11 12 30 26.9–1.3**	**4.57S**	**122.67E**	**0**	**3.5,3.5**		
								¶17189915
IDC	Error ellipse: s-maj=45.5km s-min=23.1km az=58.0.							
ISC	**I**	**28 16 12 16.4–.68**	**3.63S–.04**	**123.33E–.06**	**35**	**3.8b**	**30**	**2-72**
IDC	I	28 16 12 11.5–.80	3.60S	123.22E	0	3.9,3.8		**¶17191200**
DJA	I	28 16 12 13.0–2.4	4S–2.0	123E–3.0	20–30	4.1,4.1		
ISCJB	I	28 16 12 14.3–.43	3.60S–.04	123.30E–.04	33	3.8b,4.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**II**	**08 23 09 47.8–.40**	**3S–3.0**	**122E–4.0**	**10**	**4.3,4.3**		
								¶602001283
DJA	**II**	**08 23 17 31.3–.30**	**3S–2.0**	**122E–2.0**	**10**	**5.2b,4.5**		
								¶602001282
DJA	**II**	**11 00 31 35.0–1.7**	**1S–5.0**	**120E–4.0**	**26–20**	**3.6,3.6**		
								¶602001487
DJA	**II**	**11 23 06 02.6–.40**	**2S–3.0**	**121E–4.0**	**10**	**3.9,3.9**		
								¶602001480
DJA	**II**	**14 07 21 06.0–1.5**	**6S–4.0**	**122E–3.0**	**24–18**	**4.6b,3.9**		
								¶602001618
DJA	**II**	**15 00 40 07.7–.90**	**2S–3.0**	**124E–3.0**	**19–11**	**3.9b,3.7**		
								¶602001699
ISC	**II**	**15 13 33 54.3–.38**	**2.49S–.02**	**121.47E–.03**	**27–2**	**5.8s,5.8b**	**936**	**2-168**
BJI	II	15 13 33 43.4	3.41S	121.66E	15	6.0s,5.8		**¶602064505**
IDC	II	15 13 33 49.9–.33	2.42S	121.44E	0	5.6,5.6s		
MOS	II	15 13 33 53.8–1.6	2.39S	121.48E	34	5.9b,5.8s		
NEIC	II	15 13 33 53.2–.90	2.50S	121.48E	16–5	6.1W,6.1W		
NEIC	II	15 13 33 53.0–.00	2.47S	121.54E	20	6.1W,6.1W		
ISCJB	II	15 13 33 53.8–.25	2.47S–.01	121.52E–.01	37–2	5.8s,5.6b		
GCMT	II	15 13 33 53.2–.10	2.45S	121.57E	13–0	6.1W,5.6b		
KLM	II	15 13 33 53.6	2.47S	121.66E	28	6.7s,6.3L		
DJA	II	15 13 33 55.0–.40	2S–1.0	122E–1.0	15–4	6.3b,6.3		
NEIC	II	15 13 34 05.8–.00	2.66S	121.45E	10	6.3b,6.3		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=10.9km s-min=8.6km az=57.0.							
MOS	Error ellipse: s-maj=7.3km s-min=4.5km az=112.2.							
NEIC	Event type fe. Error ellipse: s-maj=4.9km s-min=4.1km az=50.0. Felt [V] at Poso and Soroako; [III] at Luwuk, Masamba and Palopo; [II] at Kendari. Also felt at Banggae. Moment Tensor Solution. s22 Moment tensor: Scale 10^{18}Nm; M_{rr}0.14 $M_{\theta\theta}$1.10 $M_{\phi\phi}$-1.24 $M_{r\theta}$0.06 $M_{\theta\phi}$1.30 $M_{\phi r}$0.27 Best double couple: NP1:ϕ_s201.00000°,δ90.00000°,λ-171.00000°. NP2: ϕ_s111.00000°,δ81.00000°,λ0.00000°. Principal axes: T 1.7000,Plg6.0000°,Azm336.0000° ; N 0.1500,Plg81.0000°,Azm203.0000°; P -1.8400,Plg6.0000°,Azm66.0000° $M_0$1.80000×10^{18}							
NEIC	Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s203.00000°,δ87.00000° ,λ-142.00000°. NP2:ϕ_s111.00000°,δ53.00000°,λ-3.00000°. Principal axes: T 1.6200,Plg23.0000°,Azm331.0000°; N -0.0400,Plg52.0000°,Azm207.0000° ; P -1.5900,Plg27.0000°,Azm74.0000°							
ISCJB	Event type fe. Error ellipse: s-maj=2.4km s-min=2.3km az=159.6.							
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c272; s144,c500;Duration: 2$\mathfrak{s}$6 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.14±.01 $M_{\theta\theta}$0.98±.01; $M_{\phi\phi}$-0.84±.01; $M_{r\theta}$0.35±.03; $M_{\theta\phi}$1.15±.01; $M_{\phi r}$0.43±.03; Best double couple: NP1:ϕ_s19.00000°,δ87.00000°,λ161.00000°. NP2:ϕ_s110.00000° ,δ71.00000°,λ3.00000°. Principal axes: T 1.6800,Plg16.0000°,Azm333.0000° ; N -0.2380,Plg71.0000°,Azm190.0000°; P -1.4430,Plg11.0000°,Azm66.0000° $M_0$1.56100×10^{18}							
NEIC	Event type se. Moment Tensor Solution. s105 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.09 $M_{\theta\theta}$0.86 $M_{\phi\phi}$-0.76 $M_{r\theta}$0.28 $M_{\theta\phi}$1.01 $M_{\phi r}$0.61 Best double couple: NP1:ϕ_s110.00000° ,δ62.00000°,λ-1.00000°. NP2:ϕ_s200.00000°,δ89.00000°,λ-152.00000°. Principal axes: T 1.5200,Plg19.0000°,Azm331.0000°; N -0.1200,Plg63.0000°,Azm201.0000° ; P -1.4000,Plg19.0000°,Azm68.0000° $M_0$1.40000×10^{18}							
ISC	**II**	**15 13 45 40.6–.91**	**2.61S–.05**	**121.42E–.05**	**35**	**3.7b**	**23**	**2-64**
IDC	II	15 13 45 37.5–.90	1.79S	122.56E	0	3.9,3.8		**¶17192306**
ISCJB	II	15 13 45 39.5–.47	2.60S–.05	121.38E–.05	33	3.7b,3.8		
DJA	II	15 13 45 39.4–.50	3S–4.0	121E–5.0	59–23	4.7,4.7		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**15 13 50 44.2–.99**	**2.59S–.05**	**121.50E–.06**	**22**	**3.4b**	**20**	**2-60**
ISCJB	II	15 13 50 44.1–.47	2.60S–.04	121.49E–.06	22	3.3b		**¶17192308**
IDC	II	15 13 50 44.4–1.2	2.79S	121.72E	0	3.8L,3.5		
DJA	II	15 13 50 45.4–1.8	3S–3.0	121E–4.0	28–23	4.2,4.2		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**II**	**15 14 11 20.3–.30**	**3S–3.0**	**122E–4.0**	**10**	**3.7,3.7**		
								¶602001695
DJA	**II**	**15 14 52 30.4–.30**	**3S–2.0**	**122E–3.0**	**10**	**3.7,3.7**		
								¶602001691
DJA	**II**	**15 15 45 36.4–1.7**	**3S–2.0**	**122E–3.0**	**26–21**	**4.2b,3.9**		
								¶602001683
DJA	**II**	**15 15 48 11.1–2.5**	**3S–3.0**	**122E–3.0**	**37–31**	**3.8,3.8**		
								¶602001682
ISC	**II**	**15 15 51 51.9–1.0**	**2.56S–.04**	**121.66E–.05**	**10**	**3.1b**	**22**	**2-35**
IDC	II	15 15 51 28.9–9.8	1.01N	123.51E	0	3.7,3.5		**¶602001681**
ISCJB	II	15 15 51 51.1–.42	2.60S–.04	121.69E–.05	10	3.3b,3.5		
DJA	II	15 15 51 52.4–.20	3S–2.0	122E–3.0	10	3.6,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**II**	**15 17 10 15.8–.30**	**3S–3.0**	**122E–3.0**	**10**	**3.5,3.5**		
								¶602001675
ISC	**II**	**15 18 29 10.8–1.1**	**2.62S–.05**	**121.69E–.05**	**10**	**3.3b**	**21**	**2-60**
ISCJB	II	15 18 29 09.4–.40	2.63S–.03	121.71E–.03	10	3.2b,3.2s		**¶17192317**
DJA	II	15 18 29 11.0–.20	3S–2.0	122E–2.0	10	4.5b,4.2		
IDC	II	15 18 29 16.6–1.2	3.40S	121.89E	0	3.9L,3.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=139.0.							
IDC	Error ellipse: s-maj=30.7km s-min=21.7km az=74.0.							
DJA	**II**	**15 19 15 59.0–2.0**	**3S–3.0**	**121E–4.0**	**26–24**	**3.6,3.6**		
								¶602001669
ISC	**II**	**15 23 02 10.5–2.1**	**2.50S–.05**	**121.64E–.04**	**13–15**	**4.0b**	**48**	**2-64**
IDC	II	15 23 02 07.9–.99	2.40S	121.84E	0	4.0,3.8		**¶16398302**
DJA	II	15 23 02 11.1–.20	3S–2.0	122E–2.0	10	5.2b,5.1b		
NEIC	II	15 23 02 12.2–2.2	2.46S	121.58E	30–10	4.7b,5.1b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=45.3km s-min=16.9km az=63.0.							
NEIC	Event type se. Error ellipse: s-maj=21.7km s-min=8.8km az=112.0.							
DJA	**II**	**16 02 17 58.7–.50**	**3S–4.0**	**122E–5.0**	**10**	**3.9,3.9**		
								¶602001747
DJA	**II**	**16 03 27 50.2–.80**	**3S–5.0**	**122E–4.0**	**10**	**3.8,3.8**		
								¶602001746
ISC	**II**	**16 11 20 25.1–.80**	**2.50S–.05**	**121.52E–.05**	**22**	**3.8b**	**29**	**2-64**
ISCJB	II	16 11 20 23.5–.36	2.55S–.03	121.55E–.04	22	3.7b		**¶17192364**
DJA	II	16 11 20 23.6–.90	3S–2.0	121E–2.0	12–7	5.0b,4.9b		
IDC	II	16 11 20 23.3–.93	2.66S	121.61E	0	3.9,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=40.1.							
IDC	Error ellipse: s-maj=33.3km s-min=15.8km az=66.0.							
ISC	**II**	**16 16 39 52.8–.57**	**2.52S–.04**	**121.65E–.04**	**42–5**	**4.4b,3.8s**	**119**	**2-120**
IDC	II	16 16 39 46.5–.57	2.38S	121.64E	0	4.3,4.2		**¶16030493**
BJI	II	16 16 39 48.1	2.72S	121.92E	35	5.0b,4.6b		
ISCJB	II	16 16 39 51.0–.37	2.53S–.02	121.69E–.02	45–4	4.4b,3.8s		
DJA	II	16 16 39 51.3–1.3	3S–2.0	122E–2.0	25–16	5.1b,5.0b		
NEIC	II	16 16 39 52.4–.58	2.47S	121.67E	43–6	4.5b,5.0b		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=22.8km s-min=11.5km az=70.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.3km s-min=3.9km az=36.4.							
NEIC	Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=61.0. Felt [III] at Soroako.							
DJA	**II**	**17 09 33 04.4–.90**	**3S–7.0**	**122E–5.0**	**59–33**	**4.0,4.0**		
								¶602001794
DJA	**II**	**18 12 16 40.6–1.1**	**3S–4.0**	**122E–5.0**	**12–8**	**3.5,3.5**		
								¶602001840
DJA	**II**	**18 15 11 00.6–.50**	**3S–4.0**	**121E–4.0**	**10**	**3.9,3.9**		
								¶16362991
DJA	**II**	**19 05 09 25.7–.60**	**3S–5.0**	**122E–6.0**	**10**	**3.7,3.7**		
								¶602001884
DJA	**II**	**21 19 42 06.2–1.6**	**3S–3.0**	**122E–3.0**	**28–20**	**4.3b,3.9**		
								¶602001929
DJA	**II**	**23 18 59 39.5–1.3**	**2S–3.0**	**121E–4.0**	**19–16**	**3.8,3.8**		
								¶602002027
ISC	**II**	**24 08 49 10.1–.94**	**2.56S–.05**	**121.69E–.05**	**22**	**3.6b**	**17**	**2-35**
ISCJB	II	24 08 49 09.0–.54	2.62S–.05	121.73E–.04	22	3.5b		**¶17192778**
DJA	II	24 08 49 08.3–.40	3S–4.0	122E–3.0	10	4.1,4.1		
IDC	II	24 08 49 08.8–9.9	2.71S	121.71E	0	4.0L,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=4.8km az=136.6.							
IDC	Error ellipse: s-maj=156.5km s-min=34.3km az=163.0.							
DJA	**II**	**26 01 16 07.2–1.0**	**3S–6.0**	**122E–12**	**10**	**3.5,3.5**		
								¶602002218
ISC	**II**	**26 18 21 47.8–1.6**	**1.36S–.05**	**120.16E–.06**	**11–11**	**3.3b**	**20**	**1-58**
IDC	II	26 18 21 46.1–1.2	1.20S	120.35E	0	3.5,3.4		**¶17192915**
DJA	II	26 18 21 48.9–.30	1S–3.0	120E–3.0	10	3.7,3.7		
ISC	Event type ke.							
DJA	**III**	**01 16 25 19.8–.40**	**3S–5.0**	**122E–4.0**	**10**	**4.6b,4.1**		
								¶602002385
DJA	**III**	**02 19 53 58.5–.20**	**3S–2.0**	**122E–2.0**	**10**	**5.6b,5.2**		
								¶602002457
DJA	**III**	**05 04 02 09.1–.60**	**3S–3.0**	**122E–6.0**	**10**	**3.5,3.5**		
								¶602002637
DJA	**III**	**10 03 06 26.3–.40**	**2S–3.0**	**121E–3.0**	**10**	**3.2,3.2**		
								¶602002952
ISC	**III**	**10 04 23 49.8–.96**	**2.52S–.07**	**121.51E–.08**	**22**	**3.3b**	**13**	**2-60**
IDC	III	10 04 23 47.5–1.4	2.67S	121.57E	0	3.7L,3.5		**¶17193603**
ISCJB	III	10 04 23 48.2–.63	2.55S–.06	121.55E–.06	22	3.3b,3.5		
DJA	III	10 04 23 49.1–.60	2S–3.0	121E–4.0	10	3.6,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**III**	**13 20 09 59.0–2.8**	**3S–5.0**	**122E–4.0**	**14–26**	**4.0b,3.9**		
								¶602003024
ISC	**III**	**13 20 48 19.0–.72**	**5.59S–.05**	**122.23E–.05**	**17**	**4.2b**	**29**	**2-78**
IDC	III	13 20 48 16.4–1.0	5.50S	122.31E	0	4.3L,4.2		**¶16477630**
ISCJB	III	13 20 48 16.5–.47	5.60S–.04	122.33E–.04	17	4.0b,3.3s		
NEIC	III	13 20 48 21.5–3.8	5.49S	122.27E	32–30	4.3b,3.3s		
DJA	III	13 20 48 21.2–.50	5S–4.0	122E–4.0	10	4.5,4.5		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**III**	**24 22 03 25.4–.62**	**2.38S–.05**	**121.26E–.06**	**22**	**3.9b**	**29**	**2-92**
IDC	III	24 22 03 22.1–1.1	2.39S	121.27E	0	4.0L,3.7		**¶16480710**
DJA	III	24 22 03 23.9–.20	2S–2.0	121E–3.0	10	5.5b,4.9b		
ISCJB	III	24 22 03 23.6–.37	2.44S–.03	121.29E–.04	22	3.9b,4.9b		
NEIC	III	24 22 03 29.4–1.5	2.58S	121.13E	57–17	4.1b,4.9b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=38.0km s-min=19.0km az=69.0.							
ISCJB	Event type se. Error ellipse: s-maj=6.8km s-min=4.2km az=24.7.							
NEIC	Event type se. Error ellipse: s-maj=23.2km s-min=8.2km az=65.0.							
ISC	**III**	**28 09 09 49.0–.79**	**2.31S–.05**	**121.80E–.05**	**35**	**3.9b,3.4s**	**23**	**1-84**
IDC	III	28 09 09 43.8–1.0	2.17S	121.91E	0	4.0,3.9		**¶17198926**
ISCJB	III	28 09 09 47.4–.41	2.34S–.04	121.81E–.04	33	3.8b,3.3s		
DJA	III	28 09 09 49.1–.30	2S–3.0	122E–2.0	64–14	4.7,4.7		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**28 16 19 57.5–.93**	**2.37S–.05**	**121.67E–.06**	**22**	**3.4b**	**16**	**1-64**
IDC	III	28 16 19 53.5–1.3	2.19S	121.85E	0	4.0L,3.5		**¶17198971**
ISCJB	III	28 16 19 56.5–.57	2.41S–.05	121.73E–.07	22	3.3b,2.7s		
DJA	III	28 16 19 58.2–1.5	2S–3.0	122E–4.0	22–20	4.5b,4.2		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**IV**	**01 10 14 03.1–1.1**	**1.66S–.06**	**122.58E–.06**	**35**	**3.5b**	**12**	**1-64**
ISCJB	IV	01 10 14 01.6–.59	1.73S–.06	122.60E–.06	33	3.5b		**¶17199405**
DJA	IV	01 10 14 02.3–.60	2S–5.0	123E–3.0	26–9	5.0b,4.7b		
IDC	IV	01 10 14 03.3–.96	2.20S	122.76E	0	3.9L,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.7km s-min=7.2km az=40.3.							
IDC	Error ellipse: s-maj=34.9km s-min=17.3km az=69.0.							
DJA	**IV**	**17 13 45 37.1–.50**	**1S–5.0**	**120E–4.0**	**40–25**	**5.4b,4.8**		
								¶602004024

DJA IV 19 13 59 04.1–.30 3S–3.0 122E–2.0 10 3.7,3.7
¶602004042

ISC IV 24 23 07 54.7–.34 4.48S–.03 122.86E–.03 28–2 5.8s,5.7b 901 3-174
BJI IV 24 23 07 48.6 4.60S 122.75E 10 5.9s,5.8 **¶16453181**
IDC IV 24 23 07 49.6–.33 4.37S 122.75E 0 5.7,5.7s
ISCJB IV 24 23 07 51.6–.50 4.41S–.02 122.94E–.02 19–3 5.7s,5.6b
NEIC IV 24 23 07 51.5–.19 4.59S 122.77E 8 6.1W,6.1W
NEIC IV 24 23 07 51.0–.00 4.59S 122.81E 15 6.1W,6.1W
GCMT IV 24 23 07 51.5–.10 4.27S 122.80E 15 6.1W,6.1W
KLM IV 24 23 07 52.1 4.38S 123.03E 10 6.3L,6.3s
DJA IV 24 23 07 54.0–.60 4S–2.0 123E–1.0 12–5 6.2b,6.1
MOS IV 24 23 07 54.1–1.9 4.42S 122.86E 33 5.9b,5.7s
NEIC IV 24 23 08 09.7–.00 4.02S 122.89E 10 5.9b,5.7s
ISC Event type fe.
IDC Error ellipse: s-maj=11.4km s-min=8.9km az=66.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=169.0.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.7km az=57.0. Felt [IV] at Kendari. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s48 Moment tensor: Scale 10^{18}Nm; M_{rr}0.13 $M_{\theta\theta}$1.31 $M_{\phi\phi}$-1.44 $M_{r\theta}$0.29 $M_{\theta\phi}$-0.69 $M_{\phi r}$0.05 Best double couple: NP1:ϕ_s149.00000°,δ80.00000° ,λ5.00000°. NP2:ϕ_s58.00000°,δ85.00000°,λ169.00000°. Principal axes: T 1.5200,Plg11.0000°,Azm13.0000°; N 0.0800,Plg78.0000°,Azm212.0000° ; P -1.6100,Plg4.0000°,Azm104.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.30 $M_{\theta\theta}$1.18 $M_{\phi\phi}$-0.88 $M_{r\theta}$1.38 $M_{\theta\phi}$-0.35 $M_{\phi r}$0.76 Best double couple: NP1:ϕ_s241.00000° ,δ84.00000°,λ-123.00000°. NP2:ϕ_s142.00000°,δ34.00000°,λ-9.00000°. Principal axes: T 2.0100,Plg31.0000°,Azm357.0000°; N -0.1600,Plg33.0000°,Azm244.0000° ; P -1.8500,Plg40.0000°,Azm119.0000° $M_0$1.90000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c295; s137,c466;Duration: 2s^7 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.26±.01 $M_{\theta\theta}$1.67±.01; $M_{\phi\phi}$-1.41±.01; $M_{r\theta}$0.66±.03; $M_{\theta\phi}$-0.47±.01; $M_{\phi r}$0.80±.03; Best double couple: NP1:ϕ_s236.00000°,δ81.00000°,λ-148.00000°. NP2:ϕ_s141.00000° ,δ58.00000°,λ-10.00000°. Principal axes: T 1.8870,Plg15.0000°,Azm4.0000° ; N 0.0730,Plg57.0000°,Azm249.0000°; P -1.9600,Plg28.0000°,Azm103.0000° $M_0$1.92400×10^{18}
MOS Error ellipse: s-maj=7.6km s-min=4.4km az=111.8.
NEIC Event type se. Moment Tensor Solution. s90 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.12 $M_{\theta\theta}$1.38 $M_{\phi\phi}$-1.26 $M_{r\theta}$0.51 $M_{\theta\phi}$-0.59 $M_{\phi r}$1.70 Best double couple: NP1:ϕ_s138.00000° ,δ55.00000°,λ-17.00000°. NP2:ϕ_s238.00000°,δ76.00000°,λ-144.00000°. Principal axes: T 1.5400,Plg14.0000°,Azm4.0000°; N 1.1000,Plg52.0000°,Azm256.0000° ; P -2.6400,Plg35.0000°,Azm103.0000° $M_0$2.10000×10^{18}

ISC IV 24 23 10 47.1–.38 4.32S–.06 122.86E–.06 33 4.9b 56 3-159
NEIC IV 24 23 10 42.8–3.4 4.31S 122.89E 6–21 4.9b **¶16577881**
IDC IV 24 23 10 42.1–.52 4.29S 122.90E 0 4.9,4.8
ISCJB IV 24 23 10 45.0–.31 4.34S–.05 122.91E–.04 33 4.8b,4.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC IV 24 23 25 14.3–.30 4.20S–.04 122.64E–.04 35 5.2s,4.7b 164 3-157
BJI IV 24 23 25 08.2 4.20S 122.60E 10 5.4b,5.3s **¶16453182**
IDC IV 24 23 25 09.1–.44 4.10S 122.55E 0 4.6,4.5
NEIC IV 24 23 25 09.6–2.6 4.13S 122.63E 6–16 4.8b,4.5
ISCJB IV 24 23 25 11.9–.18 4.16S–.03 122.66E–.02 33 5.3s,4.7b
MOS IV 24 23 25 12.2–1.3 4.18S 122.65E 33 4.9b,4.7b
DJA IV 24 23 25 12.3–.20 4S–2.0 123E–2.0 10 6.5b,6.3
ISC Event type fe.
NEIC Event type fe. Felt [III] at Kendari.
ISCJB Event type fe.

ISC IV 24 23 34 40.0–.50 4.33S–.06 122.83E–.05 33 4.2b 41 3-150
IDC IV 24 23 34 35.1–.74 4.30S 122.84E 0 4.2,4.1 **¶602597381**
ISCJB IV 24 23 34 38.1–.33 4.29S–.04 122.86E–.03 33 4.3b,4.1
NEIC IV 24 23 34 38.5–2.1 4.38S 122.82E 22–16 4.1b,4.1
DJA IV 24 23 34 38.7–.20 4S–3.0 123E–2.0 10 4.7b,4.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC IV 24 23 57 08.7–.69 4.10S–.08 122.80E–.08 35 4.0b 22 3-94
DJA IV 24 23 57 02.3–.30 4S–3.0 123E–2.0 10 4.7b,4.3 **¶16577884**
IDC IV 24 23 57 03.6–.97 4.17S 122.78E 0 4.0,3.8
NEIC IV 24 23 57 04.7–.58 4.04S 122.90E 10 4.1b,3.8
ISCJB IV 24 23 57 06.0–.51 4.13S–.06 122.87E–.06 33 4.2b,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC IV 25 00 17 50.1–.53 4.44S–.07 122.89E–.06 33 4.3b 41 3-121
IDC IV 25 00 17 45.1–.62 4.41S 122.95E 0 4.3,4.2b **¶16577885**
ISCJB IV 25 00 17 48.2–.34 4.46S–.04 122.93E–.04 33 4.2b,4.2b
NEIC IV 25 00 17 48.8–3.9 4.47S 122.94E 25–29 4.3b,4.2b
DJA IV 25 00 17 48.6–.20 4S–3.0 123E–2.0 10 5.3b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

IDC IV 25 00 38 31.0–1.1 3.62S 123.82E 0 4.0L,3.7
¶17201996

IDC Error ellipse: s-maj=232.5km s-min=21.7km az=62.0.

ISC IV 25 01 16 16.4–.91 4.20S–.08 122.81E–.07 35 4.0b 23 3-66
IDC IV 25 01 16 10.8–1.2 4.36S 122.88E 0 4.2,4.0 **¶17201998**
ISCJB IV 25 01 16 14.6–.43 4.21S–.05 122.84E–.04 35 4.0b,4.0
DJA IV 25 01 16 14.7–.20 4S–3.0 123E–2.0 10 5.1b,4.6b
ISC Event type ke.
ISCJB Event type ke.

DJA IV 25 06 45 00.8–.40 4S–5.0 123E–3.0 10 3.9,3.9
¶602004088

ISC IV 26 09 59 58.3–.94 4.17S–.09 122.71E–.06 35 4.0b 17 3-72
IDC IV 26 09 59 53.3–1.1 4.38S 122.84E 0 4.0,3.9 **¶17202122**
ISCJB IV 26 09 59 55.8–.56 4.32S–.07 122.87E–.05 33 4.0b,3.9
DJA IV 26 09 59 58.5–.40 4S–5.0 123E–4.0 56–18 5.2b,4.6b
ISC Event type ke.
ISCJB Event type ke.

ISC IV 26 10 16 50.1–.47 4.46S–.05 122.90E–.06 33 4.4b,3.2s 53 3-86
IDC IV 26 10 16 44.9–.61 4.37S 122.88E 0 4.3,4.2 **¶16476087**
NEIC IV 26 10 16 47.0–.38 4.37S 122.83E 10 4.6b,4.2
ISCJB IV 26 10 16 48.2–.31 4.39S–.04 122.91E–.04 33 4.4b,3.1s
DJA IV 26 10 16 48.9–.40 4S–5.0 123E–4.0 10 5.2b,5.1b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

DJA IV 26 18 10 22.8–.50 1S–3.0 119E–5.0 10 3.8,3.8
¶602004101

ISC IV 26 19 00 37.5–1.1 4.4S–.10 122.9E–.10 33 3.8b 8 3-66
IDC IV 26 19 00 32.9–1.1 4.22S 123.03E 0 3.8,3.7b **¶17202178**
ISCJB IV 26 19 00 35.6–.81 4.30S–.09 122.87E–.08 33 4.6s,3.8b
ISC Event type ke.
ISCJB Event type ke.

ISC IV 27 08 00 10.5–.70 4.38S–.08 122.94E–.06 33 4.1b,3.4s 30 3-121
IDC IV 27 08 00 05.4–.89 4.35S 122.96E 0 4.3,4.2 **¶16708147**
NEIC IV 27 08 00 06.7–.43 4.39S 122.94E 10 4.1b,4.2
ISCJB IV 27 08 00 08.1–.39 4.39S–.05 122.97E–.04 33 4.2b,3.5s
DJA IV 27 08 00 08.6–.20 4S–3.0 123E–2.0 16 5.3b,4.7
ISC Event type fe.
NEIC Event type fe. Felt [III] at Kendari.
ISCJB Event type fe.

IDC IV 28 09 13 53.3–1.9 4.34S 122.89E 0 4.1,3.8
¶17202291

IDC Error ellipse: s-maj=46.3km s-min=22.8km az=36.0.

IDC IV 28 15 41 59.4–2.0 4.41S 122.76E 0 3.4,3.2
¶17202312

IDC Error ellipse: s-maj=47.3km s-min=23.8km az=35.0.

ISC IV 29 19 53 24.1–1.0 4.3S–.10 122.85E–.07 35 3.7b 12 3-66
IDC IV 29 19 53 19.1–1.2 4.35S 122.87E 0 3.9,3.7 **¶17202411**
ISCJB IV 29 19 53 21.6–.68 4.33S–.08 122.89E–.06 33 3.8b,3.7
DJA IV 29 19 53 23.5–.50 4S–7.0 123E–5.0 10 4.8b,4.3
ISC Event type ke.
ISCJB Event type ke.

DJA IV 30 11 46 43.2–.60 4S–7.0 123E–4.0 10 3.8,3.8
¶602004146

ISC V 02 02 28 14.1–.81 4.43S–.05 122.87E–.07 10 4.0b 21 3-62
ISCJB V 02 02 28 12.2–.53 4.44S–.04 123.00E–.06 10 3.9b,2.9s **¶16577950**
IDC V 02 02 28 13.3–1.2 4.51S 122.82E 0 4.0,3.9
NEIC V 02 02 28 14.1–.70 4.41S 122.93E 10 3.8b,3.9
DJA V 02 02 28 14.9–.50 4S–4.0 123E–4.0 10 5.3b,4.8b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Kendari.

ISC V 02 02 39 50.9–.56 4.60S–.05 122.76E–.05 33 4.3b,3.3s 44 3-92
IDC V 02 02 39 45.8–.71 4.59S 122.78E 0 4.2,4.1 **¶16487754**
NEIC V 02 02 39 46.8–3.7 4.63S 122.80E 6–25 4.2b,4.1
ISCJB V 02 02 39 48.4–.32 4.65S–.04 122.83E–.05 33 4.3b,3.3s
DJA V 02 02 39 49.6–1.1 5S–4.0 123E–3.0 21–14 5.2b,5.0b
ISC Event type fe.
NEIC Event type fe. Felt [III] at Raha.
ISCJB Event type fe.

ISC V 02 05 33 43.0–1.2 1.19S–.07 119.26E–.07 35 3.7b 11 2-58
IDC V 02 05 33 37.8–1.5 1.04S 120.12E 0 3.8,3.7 **¶17202582**
DJA V 02 05 33 39.9–.60 1S–4.0 119E–4.0 10 4.3,4.3
ISCJB V 02 05 33 40.4–.97 1.15S–.06 119.20E–.07 33 3.6b,4.3
ISC Event type ke.
ISCJB Event type ke.

IDC V 04 04 31 54.5–1.6 3.76S 123.73E 0 3.9,3.6
¶17202727

IDC Error ellipse: s-maj=247.9km s-min=25.2km az=61.0.

ISC V 04 20 26 48.0–.61 4.21S–.05 122.82E–.06 10 4.1b,3.8s 27 3-92
ISCJB V 04 20 26 46.5–.43 4.18S–.05 122.86E–.05 10 4.1b,3.9s **¶16708841**
IDC V 04 20 26 46.4–.88 4.12S 122.87E 0 4.2,4.0
NEIC V 04 20 26 47.4–4.1 4.14S 122.79E 6–28 4.0b,4.0
DJA V 04 20 26 50.3–.50 4S–6.0 123E–5.0 10 4.4,4.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

DJA V 07 09 35 43.3–.50 3S–5.0 120E–6.0 10 5.2b,4.7b
¶602004210

ISC V 07 17 13 54.4–1.3 2.6S–.20 120.9E–.20 53 3.3b 8 1-60
IDC V 07 17 13 47.1–1.4 2.35S 120.99E 0 3.5,3.4 **¶17202998**
ISCJB V 07 17 13 52.4–1.2 2.5S–.10 120.9E–.10 53 3.4s,3.4b
ISC Event type ke.
ISCJB Event type ke.

IDC V 08 01 09 06.8–1.5 4.39S 122.67E 0 3.6,3.4
¶17203016

IDC Error ellipse: s-maj=35.9km s-min=24.4km az=41.0.

ISC V 09 21 06 26.8–.87 4.20S–.06 122.75E–.06 35 3.8b 19 3-121
IDC V 09 21 06 20.8–1.0 4.20S 122.94E 0 3.7,3.6 **¶17203150**
ISCJB V 09 21 06 25.3–.58 4.21S–.05 122.81E–.05 33 3.8b,3.6
DJA V 09 21 06 27.2–.80 4S–3.0 123E–3.0 29–9 4.9b,4.2
ISC Event type ke.
ISCJB Event type ke.

ISC V 13 00 36 09.0–1.1 2.35S–.06 121.20E–.07 10 3.3b 11 2-60
IDC V 13 00 36 03.8–1.8 5.40S 116.55E 0 3.5,3.4 **¶602004266**
ISCJB V 13 00 36 07.6–.69 2.34S–.06 121.29E–.08 10 3.2b,3.4
DJA V 13 00 36 08.0–.40 2S–4.0 121E–4.0 10 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.

ISC V 13 19 42 30.1–.89 4.30S–.06 122.83E–.07 33 3.2b 19 0-62
IDC V 13 19 42 26.4–1.1 4.33S 122.89E 0 3.4,3.3 **¶17203565**
DJA V 13 19 42 27.5–.40 4S–3.0 123E–4.0 10 3.7,3.7
ISCJB V 13 19 42 28.0–.55 4.35S–.04 122.81E–.07 33 3.3b,3.7
ISC Event type ke.
ISCJB Event type ke.

ISC V 18 10 37 00.6–1.1 2.79S–.05 121.58E–.05 68–16 3.1b 16 2-35
IDC V 18 10 36 54.3–10 2.84S 121.86E 0 3.6,3.5 **¶17203873**
ISCJB V 18 10 36 59.7–.54 2.78S–.04 121.58E–.04 80–11 3.3b,3.5
DJA V 18 10 37 00.8–2.7 3S–4.0 122E–3.0 38–36 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.

DJA V 18 23 56 30.6–.60 1S–4.0 120E–5.0 30 3.7,3.7
¶602004323

IDC V 19 01 06 39.9–1.5 3.78S 123.28E 0 3.7,3.6
¶17203922

IDC Error ellipse: s-maj=47.4km s-min=23.1km az=54.0.

DJA V 19 19 59 09.4–1.7 3S–13 122E–12 18–37 3.7,3.7
¶602004329

ISC V 21 09 15 41.8–.85 2.29S–.05 120.70E–.06 35 3.7b,3.2s 16 1-76
IDC V 21 09 15 36.9–1.1 2.24S 120.77E 0 3.9,3.8 **¶17204126**
DJA V 21 09 15 39.3–.40 2S–4.0 121E–4.0 10 4.2,4.2
ISCJB V 21 09 15 40.4–.49 2.27S–.04 120.70E–.06 35 3.7b,3.1s
ISC Event type ke.
ISCJB Event type ke.

ISC V 23 06 50 45.4–.41 1.53S–.04 120.42E–.05 23 4.6b,3.2s 87 1-152
IDC V 23 06 50 41.2–.61 1.43S 120.61E 0 4.4,4.3 **¶16535863**
ISCJB V 23 06 50 43.4–.23 1.51S–.03 120.44E–.04 23 4.5b,3.4s
DJA V 23 06 50 43.5–.90 1S–3.0 120E–4.0 11–8 5.2b,4.8b
NEIC V 23 06 50 48.4–.63 1.52S 120.51E 54–7 4.5b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=28.6km s-min=12.0km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.5km az=161.8.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=56.0.

IDC V 23 21 37 13.0–2.0 3.95S 123.14E 0 3.6,3.4b
¶17204325

IDC Error ellipse: s-maj=44.6km s-min=24.4km az=36.0.

ISC V 24 18 11 22.6–1.2 1.08S–.07 123.9E–.10 35 3.3b 11 1-60
IDC V 24 18 11 17.8–1.3 0.60S 124.61E 0 3.9s,3.9 **¶17204396**
DJA V 24 18 11 19.3–1.4 1S–4.0 124E–7.0 11–9 4.4b,4.0
ISCJB V 24 18 11 20.6–.94 1.06S–.06 123.94E–.07 33 3.9s,3.3b
ISC Event type ke.
ISCJB Event type ke.

IDC V 29 07 45 30.6–1.5 1.24S 123.51E 0 3.6,3.4
¶17204683

IDC Error ellipse: s-maj=402.5km s-min=22.3km az=62.0.

ISC V 29 13 07 33.9–.80 4.34S–.05 122.92E–.05 33 3.8b 19 0-66
IDC V 29 13 07 29.7–1.2 4.27S 122.92E 0 3.8,3.7 **¶17204703**
ISCJB V 29 13 07 33.0–.55 4.33S–.05 122.93E–.05 33 3.7b,2.7s
DJA V 29 13 07 33.1–.60 4S–6.0 123E–4.0 10 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.

DJA V 29 13 54 16.0–.40 2S–5.0 121E–5.0 10 3.6,3.6
¶602004418

ISC V 30 09 45 55.2–1.3 4.04S–.06 122.60E–.06 10–9 4.2b,3.1s 23 0-76
IDC V 30 09 45 54.0–1.4 3.98S 122.70E 0 4.2,4.1 **¶16702288**
ISCJB V 30 09 45 54.7–.90 4.05S–.05 122.63E–.06 17–8 4.1b,3.2s
DJA V 30 09 45 55.9–.30 4S–3.0 123E–3.0 10 4.3,4.3
NEIC V 30 09 45 56.9–3.3 4.01S 122.63E 20–27 4.0b,4.3
ISC Event type fe.
IDC Error ellipse: s-maj=34.7km s-min=21.1km az=46.0.
ISCJB Event type fe. Error ellipse: s-maj=9.5km s-min=8.2km az=160.0.
NEIC Event type fe. Error ellipse: s-maj=17.1km s-min=8.9km az=64.0. Felt [II] at Kendari.

DJA VI 09 13 58 16.2–.40 3S–4.0 122E–3.0 10 2.9,2.9
¶602004499

DJA VI 10 17 48 54.7–1.2 3S–3.0 122E–4.0 25–18 4.2b,3.9
¶602004508

ISC VI 12 14 30 50.2–.44 4.36S–.05 122.83E–.05 33 4.5b,3.7s 74 0-121
IDC VI 12 14 30 45.6–.64 4.29S 122.94E 0 4.4,4.3 **¶16593423**
NEIC VI 12 14 30 47.0–2.9 4.35S 122.85E 12–19 4.7b,4.3
DJA VI 12 14 30 46.9–.50 4S–4.0 123E–4.0 10 4.6,4.6

ISCJB VI 12 14 30 48.0–.27 4.37S–.03 122.87E–.04 33 4.5b,3.6s
BJI VI 12 14 30 49.0 4.30S 122.80E 32 4.9b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=13.6km az=68.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.5km az=64.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=160.2.
ISC VI 18 16 04 22.2–.92 2.43S–.05 121.15E–.07 53 3.4b 17 1-60
IDC VI 18 16 04 15.9–1.5 2.35S 121.35E 0 3.6,3.4 **¶16730897**
NEIC VI 18 16 04 19.0 2.51S 121.29E 10 3.5b,3.4
ISCJB VI 18 16 04 20.1–.65 2.47S–.06 121.18E–.07 53 3.3b,3.4
DJA VI 18 16 04 20.3–.40 2S–4.0 121E–4.0 46–55 4.2b,4.0
ISC Event type fe.
NEIC Event type fe. Felt [III] at Soroako. After DJA.
ISCJB Event type fe.
DJA VI 24 04 12 31.2–.80 1S–4.0 124E–3.0 18–9 3.9,3.9
¶602004621
ISC VI 30 17 19 30.0–.42 2.57S–.05 121.75E–.05 22 4.5b,3.8s 73 2-151
ISCJB VI 30 17 19 27.8–.26 2.59S–.03 121.76E–.04 22 4.5b,3.8s **¶16702468**
BJI VI 30 17 19 27.0 2.51S 122.00E 8 4.9b,4.5s
DJA VI 30 17 19 28.5–.20 3S–3.0 122E–2.0 10 5.4b,5.2b
IDC VI 30 17 19 30.8–3.1 2.54S 121.67E 38–28 4.3,4.3
NEIC VI 30 17 19 31.9–.93 2.58S 121.68E 43–10 4.8b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.3km az=2.9.
IDC Error ellipse: s-maj=19.9km s-min=12.7km az=69.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=6.6km az=71.0.

(269) Southern Molucca Sea.

ISC I 08 04 10 57.3–.30 0.07S–.02 124.95E–.03 63–2 5.5b 1193 2-168
BJI I 08 04 10 50.5 0.57S 125.15E 61 5.5b,5.4b **¶15909054**
MOS I 08 04 10 52.4–1.2 0.03N 124.87E 33 5.8b,4.7s
IDC I 08 04 10 53.7–1.5 0.02S 124.75E 33–10 5.3,5.1L
GCMT I 08 04 10 56.7–.10 0.15S 125.04E 45–0 5.7W,5.1L
ISCJB I 08 04 10 56.6–.24 0.08S–.01 125.01E–.01 74–2 5.4b,5.1L
NEIC I 08 04 10 56.7–.54 0.03S 124.91E 57–5 5.6b,5.1L
KLM I 08 04 10 57.8 0.03S 125.02E 76 6.6s,5.6b
DJA I 08 04 10 58.9–.10 0S–2.0 125E–1.0 71–2 6.2,5.9b
ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c222; s112,c285;Duration: 1s6 Moment tensor: Scale 10^{17} Nm; M_{rr}3.00±.04 $M_{\theta\theta}$-1.55±.03; $M_{\phi\phi}$-1.45±.04; $M_{r\theta}$0.72±.03; $M_{\theta\phi}$-1.77±.03; $M_{\phi r}$1.83±.04; Best double couple: NP1:ϕ_s33.00000°,δ61.00000°,λ77.00000°. NP2:ϕ_s239.00000° ,δ32.00000°,λ113.00000°. Principal axes: T 3.6570,Plg71.0000°,Azm273.0000° ; N 0.1020,Plg12.0000°,Azm39.0000°; P -3.7590,Plg15.0000°,Azm133.0000° M_o3.70800×10^{17}
ISCJB Event type se.
NEIC Event type se.
ISC I 13 16 02 21.1–.46 0.27S–.05 124.21E–.04 88 4.2b 55 1-122
ISCJB I 13 16 02 19.3–.28 0.13S–.04 124.18E–.03 88 4.2b **¶16022169**
IDC I 13 16 02 19.2–1.8 0.12S 124.04E 68–17 4.2,3.9
NEIC I 13 16 02 20.2–.89 0.13S 124.13E 82–9 4.5b,3.9
DJA I 13 16 02 21.8–.40 0S–5.0 124E–2.0 59–14 5.1b,4.7b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 13 17 35 15.5–1.6 0.02S–.09 126.95E–.07 70 4.0b 22 1-61
IDC I 13 17 34 58.8–2.0 0.24N 127.36E 0 4.3,4.1 **¶17190073**
ISCJB I 13 17 35 13.7–.50 0.13S–.05 126.97E–.04 70 3.9b,4.1
DJA I 13 17 35 14.7–.40 0S–3.0 127E–3.0 84–6 5.1b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 13 23 04 00.8–.49 0.24S–.03 124.08E–.04 84–4 4.9b 353 1-163
MOS I 13 23 03 56.1–1.1 0.11S 124.01E 58 5.1b **¶15925979**
BJI I 13 23 03 59.1 0.20S 124.10E 81 5.2b,5.0b
IDC I 13 23 03 59.7–1.7 0.17S 123.97E 74–15 4.8,4.6
ISCJB I 13 23 04 00.6–.37 0.22S–.03 124.15E–.02 99–3 4.8b,4.6
KLM I 13 23 04 01.9 0.36S 124.33E 81 6.6s,5.1b
NEIC I 13 23 04 02.2–.76 0.21S 124.01E 96–7 4.9b,5.1b
DJA I 13 23 04 03.5–1.0 0S–4.0 124E–2.0 37–12 5.6b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 13 23 17 33.8–.61 0.17S–.06 124.25E–.05 73 3.9b 34 1-122
IDC I 13 23 17 31.7–4.5 0.04S 124.38E 52–42 3.8,3.8L **¶16026450**
ISCJB I 13 23 17 32.6–.40 0.05S–.05 124.28E–.04 73 3.9b,3.8L
NEIC I 13 23 17 32.3–1.2 0.04S 124.39E 62–12 4.2b,3.8L
DJA I 13 23 17 35.6–.60 0S–5.0 124E–2.0 102–9 5.0b,4.7b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 15 10 31 43.5–.86 0.08S–.07 125.15E–.04 53 4.0b 22 2-60
IDC I 15 10 31 36.6–1.1 0.05S 125.14E 0 4.3,4.2 **¶17190242**
ISCJB I 15 10 31 41.1–.49 0.02N–.06 125.04E–.04 53 4.1b,4.2
DJA I 15 10 31 41.1–1.3 0N–4.0 125E–2.0 23–17 4.8b,4.6
ISC Event type ke.
ISCJB Event type ke.
IDC I 25 01 58 29.7–1.9 0.95S 124.80E 0 3.6,3.4
¶17190933
IDC Error ellipse: s-maj=157.9km s-min=21.9km az=59.0.
IDC I 31 13 49 08.1–2.0 0.22S 125.57E 0 3.3,3.1
¶17191409
IDC Error ellipse: s-maj=193.2km s-min=27.0km az=64.0.
IDC II 01 18 32 56.0–1.1 0.18S 124.83E 0 3.5s,3.5
¶17191499
IDC Error ellipse: s-maj=170.5km s-min=18.9km az=66.0.
ISC II 06 11 34 43.3–.72 0.13S–.06 124.24E–.04 110 3.7b 31 1-64
ISCJB II 06 11 34 41.2–.42 0.11S–.05 124.18E–.03 110 3.7b **¶17191790**
DJA II 06 11 34 43.2–.30 0S–4.0 124E–2.0 50 4.4b,4.3
IDC II 06 11 34 44.3–3.8 0.04S 123.92E 116–39 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.7km az=2.2.
IDC Error ellipse: s-maj=31.2km s-min=15.9km az=70.0.
DJA II 06 14 10 25.8–.90 0S–6.0 125E–6.0 10 3.7,3.7
¶602001133
ISC II 06 14 31 55.6–.68 0.35S–.07 125.28E–.07 57 3.8b 25 2-64
IDC II 06 14 31 48.5–.86 0.21S 125.41E 0 3.9,3.8 **¶16026093**
ISCJB II 06 14 31 54.1–.43 0.31S–.06 125.28E–.04 57 3.9b,3.8
DJA II 06 14 31 55.6–.60 0S–8.0 125E–4.0 58–15 5.2b,4.6
NEIC II 06 14 31 57.2–.80 0.37S 125.38E 77–10 4.6b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=32.0km s-min=17.8km az=78.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=12.2.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.4km az=168.0.
ISC II 14 04 32 44.6–.68 0.06S–.05 124.37E–.04 73 4.0b 50 2-93
ISCJB II 14 04 32 43.3–.37 0.09S–.03 124.36E–.02 73 4.0b **¶17192221**
IDC II 14 04 32 44.7–5.6 0.00S 124.22E 90–57 4.1,4.1L
DJA II 14 04 32 45.4–.30 0S–3.0 124E–2.0 81–18 5.3b,5.1b
ISC Event type ke.
ISCJB Event type ke.
ISC II 15 22 28 03.0–.78 0.10S–.04 124.20E–.04 78–7 4.2b 110 1-126
ISCJB II 15 22 28 01.5–.32 0.11S–.03 124.17E–.02 82–3 4.1b **¶16398296**
NEIC II 15 22 28 03.2–.50 0.15S 124.13E 84–5 4.5b
DJA II 15 22 28 03.1–.20 0S–3.0 124E–2.0 41–6 5.1b,4.8b
IDC II 15 22 28 03.5–2.8 0.12S 123.97E 80–26 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.4km az=12.1.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.8km az=46.0.
IDC Error ellipse: s-maj=20.6km s-min=12.2km az=72.0.
IDC II 19 23 12 14.3–3.5 1.96S 126.62E 0 4.4,4.4L
¶17192552
IDC Error ellipse: s-maj=100.4km s-min=34.5km az=66.0.

ISC II 24 04 26 00.8–1.0 1.98S–.04 124.07E–.03 40–12 4.3b 48 2-122
ISCJB II 24 04 25 59.4–.43 2.00S–.03 124.05E–.03 49–6 4.1b,3.2s **¶16342392**
DJA II 24 04 25 59.9–1.8 2S–3.0 124E–2.0 29–21 5.2b,5.1b
NEIC II 24 04 26 00.8–1.8 1.96S 124.00E 45–19 4.3b,5.1b
IDC II 24 04 26 02.1–3.4 2.03S 123.99E 56–35 4.5L,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=24.5.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=9.6km az=61.0.
IDC Error ellipse: s-maj=20.7km s-min=14.3km az=49.0.
ISC III 08 15 11 52.3–1.1 0.34S–.08 125.24E–.06 52 2.9b 12 2-60
IDC III 08 15 11 44.6–1.8 0.59S 124.56E 0 3.2,3.1 **¶17193474**
DJA III 08 15 11 50.9–.40 0S–4.0 125E–3.0 10 3.6,3.6
ISCJB III 08 15 11 51.3–1.1 0.31S–.09 125.35E–.08 52 3.0b,3.6
ISC Event type ke.
ISCJB Event type ke.
DJA III 10 17 00 28.5–.40 0S–4.0 124E–2.0 58–8 4.5b,4.2
¶602002949
ISC III 13 10 11 38.8–.94 0.04S–.08 125.93E–.06 44 3.8b 11 2-64
DJA III 13 10 11 29.1–.60 0S–10 127E–5.0 256–8 5.3b,4.7b **¶17194835**
IDC III 13 10 11 32.5–1.1 0.08S 125.76E 0 4.0,3.9
ISCJB III 13 10 11 37.6–.68 0.02S–.09 125.89E–.07 44 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 03 53 13.5–1.7 0.10S 125.70E 0 3.7,3.5
¶17196928
IDC Error ellipse: s-maj=187.1km s-min=23.7km az=64.0.
ISC III 19 01 09 29.5–.78 0.34S–.07 124.34E–.05 110 3.7b 25 1-122
DJA III 19 01 09 27.4–.20 0S–3.0 124E–2.0 10 4.9b,4.4b **¶17197111**
ISCJB III 19 01 09 27.2–.52 0.32S–.06 124.36E–.03 110 3.6b,4.4b
IDC III 19 01 09 27.8–4.7 0.13S 124.14E 79–47 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.8km az=9.3.
IDC Error ellipse: s-maj=33.6km s-min=19.9km az=63.0.
ISC III 25 00 00 47.8–.44 0.17S–.05 125.01E–.05 53 4.3b 60 1-122
ISCJB III 25 00 00 46.3–.28 0.13S–.04 124.99E–.04 53 4.4b,3.4s **¶16480730**
DJA III 25 00 00 46.7–.30 0S–3.0 125E–2.0 10 5.1b,5.0b
IDC III 25 00 00 49.3–3.3 0.20S 124.96E 68–32 4.2,4.0b
NEIC III 25 00 00 50.3–.89 0.24S 124.93E 80–9 4.4b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.9km az=42.3.
IDC Error ellipse: s-maj=21.4km s-min=13.8km az=77.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=59.0.
ISC III 26 05 56 40.6–.84 0.01S–.06 124.51E–.04 73 3.8b 22 1-59
IDC III 26 05 56 38.8–5.3 0.03S 124.54E 49–52 4.1L,3.8 **¶17198609**
DJA III 26 05 56 39.7–.90 0S–7.0 125E–2.0 26–16 5.0b,4.8b
ISCJB III 26 05 56 39.1–.53 0.05S–.05 124.50E–.04 73 3.7b,4.8b
ISC Event type ke.
ISCJB Event type ke.
ISC III 27 14 40 34.7–.93 0.16S–.08 125.57E–.05 49 3.3b 16 2-89
IDC III 27 14 40 27.7–1.3 0.24S 125.48E 0 3.8,3.5 **¶17198800**
ISCJB III 27 14 40 33.3–.71 0.12S–.07 125.51E–.05 49 3.5b,3.5
DJA III 27 14 40 34.8–.50 0S–6.0 126E–3.0 77–22 4.4b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC III 28 22 13 57.9–7.8 0.87S 125.61E 650–142 3.6,2.7
¶17199004
IDC Error ellipse: s-maj=79.5km s-min=37.3km az=63.0.
ISC III 31 06 30 26.4–.56 0.43S–.08 124.0E–.10 88 4.4b 32 1-121
IDC III 31 06 30 23.3–3.5 0.36S 124.08E 56–34 4.3,4.2L **¶16475909**
NEIC III 31 06 30 24.4–.74 0.39S 124.07E 70–7 4.4b,4.2L
ISCJB III 31 06 30 24.4–.37 0.42S–.05 124.06E–.06 88 4.3b,4.2L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 02 14 38 13.6–.83 0.06S–.08 125.00E–.05 53 3.7b 20 2-125
IDC IV 02 14 38 06.7–1.1 0.02N 125.28E 0 4.1,3.9 **¶17199535**
ISCJB IV 02 14 38 12.0–.57 0.04S–.06 124.95E–.04 53 3.8b,3.9
DJA IV 02 14 38 14.1–.50 0S–4.0 125E–2.0 65–24 4.8b,4.5b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 07 20 58 27.2–1.8 1.31S 124.03E 0 3.7,3.5
¶17200165
IDC Error ellipse: s-maj=170.7km s-min=27.6km az=62.0.
DJA IV 17 13 42 38.2–.50 0S–3.0 125E–2.0 66–21 4.0b,3.6
¶602004023
ISC IV 30 01 08 56.3–1.0 0.23S–.06 124.76E–.04 72–11 4.3b 53 2-95
ISCJB IV 30 01 08 55.3–.59 0.27S–.05 124.78E–.03 79–7 4.2b **¶16577921**
NEIC IV 30 01 08 57.7–.88 0.26S 124.73E 84–9 4.4b
DJA IV 30 01 08 57.9–.30 0S–4.0 125E–2.0 54–10 5.2b,5.1b
IDC IV 30 01 08 58.6–3.1 0.23S 124.63E 92–31 4.2,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=5.5km az=165.8.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=8.8km az=72.0.
IDC Error ellipse: s-maj=21.2km s-min=13.9km az=75.0.
ISC IV 30 21 31 12.8–.66 0.15S–.06 124.64E–.05 73 4.1b 29 1-93
ISCJB IV 30 21 31 10.8–.42 0.19S–.05 124.65E–.04 73 3.9b **¶16577930**
DJA IV 30 21 31 10.3–1.2 0S–5.0 125E–4.0 13–11 4.9b,4.8b
NEIC IV 30 21 31 12.5–3.0 0.22S 124.65E 72–28 4.0b,4.8b
IDC IV 30 21 31 13.2–4.8 0.23S 124.57E 75–47 4.1L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.5km az=31.5.
NEIC Event type se. Error ellipse: s-maj=33.8km s-min=8.3km az=51.0.
IDC Error ellipse: s-maj=34.0km s-min=16.3km az=61.0.
ISC V 05 08 45 28.0–.36 0.17S–.03 124.61E–.03 62–2 5.1b 495 2-161
IDC V 05 08 45 19.3–.31 0.13S 124.27E 0 4.9,4.9b **¶16497728**
ISCJB V 05 08 45 25.9–.41 0.19S–.02 124.56E–.02 61–4 5.0b,4.9b
MOS V 05 08 45 25.3–1.0 0.14S 124.33E 58 5.4b,4.9b
KLM V 05 08 45 27.1 0.12S 124.68E 44 5.8s,5.1L
NEIC V 05 08 45 29.0–.57 0.20S 124.48E 73–5 5.1b,5.1L
GCMT V 05 08 45 29.0–.20 0.22S 124.54E 41–0 5.0W,5.1L
DJA V 05 08 45 29.1–.40 0S–2.0 125E–2.0 48–28 5.4b,5.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s53,c64; s68,c86;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.50±.17 $M_{\theta\theta}$-1.94±.12; $M_{\phi\phi}$-1.56±.14; $M_{r\theta}$0.29±.10; $M_{\theta\phi}$-2.39±.08; $M_{\phi r}$1.23±.11; Best double couple: NP1:ϕ_s35.00000°,δ54.00000°,λ75.00000°. NP2:ϕ_s240.00000°,δ39.00000°,λ110.00000°. Principal axes: T 3.7970,Plg75.0000°,Azm258.0000°; N 0.4920,Plg12.0000°,Azm44.0000° ; P -4.2890,Plg8.0000°,Azm136.0000° M_o4.04300×10^{16}
ISC V 13 05 11 55.5–.67 0.03S–.04 124.32E–.04 91–6 4.6b 156 1-145
ISCJB V 13 05 11 53.8–.32 0.01S–.03 124.31E–.02 88–3 4.5b **¶16508005**
DJA V 13 05 11 55.4–.20 0S–3.0 124E–2.0 46–10 5.6b,5.5
KLM V 13 05 11 55.4 0.04N 124.30E 32 6.2s,5.1L
IDC V 13 05 11 55.3–1.8 0.04N 124.13E 93–16 4.3,4.1
NEIC V 13 05 11 57.2–.65 0.00S 124.21E 108–6 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=28.7.
IDC Error ellipse: s-maj=16.1km s-min=10.2km az=80.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=52.0.
ISC V 14 01 13 21.4–.33 0.14S–.05 125.23E–.05 53 4.8b 205 1-125
DJA V 14 01 13 15.3–.30 0N–3.0 126E–3.0 85–18 5.1b,5.0 **¶16510221**
ISCJB V 14 01 13 19.6–.21 0.18S–.03 125.22E–.03 53 4.8b,4.4s
IDC V 14 01 13 20.7–2.3 0.15S 125.10E 48–22 4.6,4.4
MOS V 14 01 13 21.6–1.0 0.17S 125.25E 74 5.1b,4.4
NEIC V 14 01 13 24.3–.76 0.25S 125.13E 84–7 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=18.8.
IDC Error ellipse: s-maj=15.5km s-min=10.4km az=88.0.
MOS Error ellipse: s-maj=11.4km s-min=6.1km az=118.6.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.7km az=68.0.

ISC	**V**	**14 01 19 34.7–.54**	**0.06S–.04**	**124.92E–.04**	**68–4**	**4.9b**	**281**	**1-159**
ISCJB	V	14 01 19 32.8–.41	0.08S–.03	124.97E–.02	66–4	4.8b		¶16510222
MOS	V	14 01 19 33.8–1.5	0.02N	124.92E	72	5.3b		
KLM	V	14 01 19 34.0	0.16S	125.18E	81	5.7s,4.8b		
IDC	V	14 01 19 33.9–1.4	0.10S	124.85E	60–12	4.8,4.5		
DJA	V	14 01 19 34.1–.20	0N–2.0	125E–2.0	42–4	5.4b,5.2		
NEIC	V	14 01 19 35.9–.75	0.12S	124.86E	80–7	4.9b,5.2		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=4.9km s-min=3.9km az=27.1.							
MOS	Error ellipse: s-maj=10.2km s-min=6.2km az=115.3.							
IDC	Error ellipse: s-maj=11.8km s-min=7.3km az=77.0.							
NEIC	Event type se. Error ellipse: s-maj=6.7km s-min=4.4km az=65.0.							
IDC	**V**	**14 07 50 11.4–16**	**0.60S**	**124.41E**	**0**	**4.2,4.0**		
								¶17203595
IDC	Error ellipse: s-maj=256.4km s-min=173.2km az=163.0.							
ISC	**V**	**15 11 01 10.3–.44**	**0.03S–.05**	**125.05E–.04**	**53**	**4.2b,2.8s**	**66**	**2-125**
IDC	V	15 11 01 03.0–.56	0.02S	124.87E	0	4.3,4.2b		¶16591588
ISCJB	V	15 11 01 08.5–.28	0.01S–.03	124.98E–.03	53	4.3b,3.0s		
NEIC	V	15 11 01 10.2–1.1	0.04S	125.04E	55–11	4.3b,3.0s		
DJA	V	15 11 01 12.4–.30	0S–4.0	125E–2.0	92–13	4.8b,4.6		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**V**	**26 11 59 18.9–.41**	**0.27S–.05**	**124.61E–.04**	**60**	**4.6b,3.2s**	**93**	**1-122**
ISCJB	V	26 11 59 17.4–.23	0.25S–.03	124.59E–.03	60	4.5b,3.3s		¶16577323
DJA	V	26 11 59 17.2–.90	0S–3.0	125E–2.0	17–12	5.2b,5.0b		
NEIC	V	26 11 59 20.5–1.2	0.24S	124.51E	72–11	4.6b,5.0b		
IDC	V	26 11 59 20.6–3.1	0.30S	124.51E	79–30	4.3,4.1		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=4.7km s-min=3.5km az=38.6.							
NEIC	Event type se. Error ellipse: s-maj=12.8km s-min=6.5km az=59.0.							
IDC	Error ellipse: s-maj=19.8km s-min=15.2km az=69.0.							
ISC	**V**	**29 11 48 25.5–1.3**	**0.11S–.08**	**125.49E–.08**	**49**	**3.0b**	**15**	**2-60**
IDC	V	29 11 48 19.9–1.6	0.05S	125.86E	0	3.6,3.4b		¶17204698
DJA	V	29 11 48 21.3–1.3	0N–10	126E–8.0	86–21	4.3,4.2		
ISCJB	V	29 11 48 23.3–.00	0.12S–.06	125.47E–.07	49	3.4b,4.2		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**V**	**30 10 12 52.9–3.5**	**0.14S**	**125.18E**	**0**	**4.4,4.2**		
								¶17204752
IDC	Error ellipse: s-maj=266.2km s-min=37.6km az=65.0.							
IDC	**VI**	**06 04 36 39.8–1.5**	**0.12S**	**125.78E**	**0**	**3.7,3.5**		
								¶17205384
IDC	Error ellipse: s-maj=119.9km s-min=20.8km az=68.0.							
ISC	**VI**	**10 11 24 01.9–.51**	**0.50S–.05**	**124.94E–.05**	**52**	**4.1b**	**37**	**1-122**
IDC	VI	10 11 23 55.4–.69	0.36S	124.82E	0	4.1,4.0		¶16856865
NEIC	VI	10 11 23 56.9–.33	0.38S	124.89E	10	4.2b,4.0		
ISCJB	VI	10 11 24 01.0–.34	0.36S–.05	125.11E–.04	52	4.1b,2.5s		
DJA	VI	10 11 24 00.2–.30	0S–3.0	125E–2.0	10	4.8b,4.6b		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
IDC	**VI**	**15 08 12 13.5–1.9**	**0.25S**	**125.18E**	**0**	**3.5,3.3**		
								¶17206171
IDC	Error ellipse: s-maj=192.3km s-min=26.9km az=64.0.							
IDC	**VI**	**19 21 22 50.1–1.0**	**0.36S**	**124.75E**	**0**	**3.8,3.7**		
								¶17206549
IDC	Error ellipse: s-maj=91.6km s-min=18.1km az=70.0.							
ISC	**VI**	**28 00 36 49.6–1.0**	**0.25S–.04**	**125.08E–.04**	**52–10**	**4.7b**	**94**	**1-153**
DJA	VI	28 00 36 46.3–.30	0S–3.0	125E–2.0	10	5.2b,5.0b		¶16731655
ISCJB	VI	28 00 36 48.2–.49	0.25S–.03	125.03E–.03	60–5	4.8b,5.0b		
IDC	VI	28 00 36 49.0–4.7	0.24S	124.77E	45–45	4.4,4.2L		
NEIC	VI	28 00 36 52.0–1.4	0.29S	124.97E	78–13	4.8b,4.2L		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=142.0.							
IDC	Error ellipse: s-maj=31.9km s-min=12.4km az=81.0.							
NEIC	Event type se. Error ellipse: s-maj=10.7km s-min=5.5km az=62.0.							

(270) Ceram Sea.

ISC	**I**	**04 07 59 52.0–.90**	**2.86S–.05**	**127.98E–.04**	**38**		**19**	**1-32**
ISCJB	I	04 07 59 50.7–.50	2.85S–.05	128.02E–.04	38	3.8b		¶17189405
DJA	I	04 07 59 51.5–.70	3S–5.0	128E–2.0	32–12	5.3b,5.3b		
IDC	I	04 07 59 55.5–5.8	2.74S	128.18E	90–65	3.9,3.9L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=5.3.							
IDC	Error ellipse: s-maj=107.3km s-min=34.8km az=136.0.							
DJA	**I**	**10 13 46 53.8–.30**	**3S–2.0**	**127E–2.0**	**10**	**4.3b,3.7**		
								¶601989105
ISC	**I**	**21 17 56 48.6–.73**	**2.64S–.05**	**128.75E–.05**	**35**	**4.0b**	**28**	**1-87**
DJA	I	21 17 56 43.9–.30	3S–3.0	129E–2.0	138–4	4.9b,4.4b		¶16152028
IDC	I	21 17 56 46.6–1.2	2.94S	129.01E	0	4.3,4.2L		
ISCJB	I	21 17 56 47.8–.44	2.66S–.05	128.77E–.04	35	4.2b,4.2L		
NEIC	I	21 17 56 51.1–1.3	2.88S	129.02E	35	4.5b,4.2L		
ISC	Event type se.							
IDC	Error ellipse: s-maj=42.6km s-min=22.5km az=75.0.							
ISCJB	Event type se. Error ellipse: s-maj=7.4km s-min=5.5km az=137.9.							
NEIC	Event type se. Error ellipse: s-maj=39.8km s-min=16.9km az=59.0.							
DJA	**I**	**21 20 34 25.3–.20**	**3S–2.0**	**127E–2.0**	**10**	**4.9b,4.5b**		
								¶601989794
ISC	**I**	**22 07 59 46.1–1.0**	**2.35S–.07**	**126.13E–.09**	**20**		**9**	**0-62**
IDC	I	22 07 59 42.4–1.9	2.51S	125.73E	0	3.3,3.2		¶17190725
DJA	I	22 07 59 47.3–.90	2S–7.0	126E–6.0	10–7	3.3,3.3		
ISC	Event type ke.							
DJA	**I**	**25 10 35 31.7–.30**	**3S–2.0**	**129E–3.0**	**10**	**3.6,3.6**		
								¶601990034
IDC	**I**	**25 11 07 16.5–13**	**2.48S**	**125.40E**	**0**	**4.4L,4.3**		
								¶17190959
IDC	Error ellipse: s-maj=204.1km s-min=167.2km az=134.0.							
DJA	**I**	**25 21 29 21.7–.30**	**3S–2.0**	**128E–2.0**	**10**	**3.6,3.6**		
								¶601990072
IDC	**I**	**26 18 09 20.6–1.7**	**2.87S**	**125.14E**	**0**	**3.4,3.2**		
								¶17191052
IDC	Error ellipse: s-maj=185.4km s-min=25.5km az=63.0.							
IDC	**I**	**30 10 20 18.6–8.7**	**3.66S**	**125.16E**	**0**	**3.5,3.4L**		
								¶17191309
IDC	Error ellipse: s-maj=151.5km s-min=123.3km az=65.0.							
IDC	**I**	**31 13 53 08.4–1.8**	**2.22S**	**127.90E**	**0**	**3.9,3.9s**		
								¶17191410
IDC	Error ellipse: s-maj=145.1km s-min=23.1km az=67.0.							
DJA	**II**	**07 14 33 00.3–.50**	**3S–6.0**	**127E–5.0**	**10**	**3.6,3.6**		
								¶602001205
IDC	**II**	**10 16 49 34.1–2.1**	**2.10S**	**127.61E**	**0**	**3.3,3.1**		
								¶17192022
IDC	Error ellipse: s-maj=178.9km s-min=25.5km az=67.0.							
ISC	**II**	**17 22 54 27.3–.35**	**2.89S–.04**	**128.20E–.04**	**38**	**4.5b,3.9s**	**116**	**0-150**
ISCJB	II	17 22 54 25.9–.22	2.86S–.03	128.20E–.03	38	4.5b,3.8s		¶16032016
DJA	II	17 22 54 26.6–.30	3S–4.0	128E–2.0	10	5.2b,5.2b		
BJI	II	17 22 54 27.6	2.71S	128.24E	45	4.9b,4.6s		
NEIC	II	17 22 54 28.3–.66	2.86S	128.22E	49–7	4.7b,4.6s		
IDC	II	17 22 54 28.7–1.6	2.89S	128.17E	47–16	4.5L,4.2		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=140.4.							
NEIC	Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=47.0.							
IDC	Error ellipse: s-maj=18.3km s-min=10.5km az=66.0.							
ISC	**II**	**20 08 45 08.8–1.4**	**2.91S–.04**	**128.19E–.04**	**4–9**	**4.1b**	**41**	**1-126**
IDC	II	20 08 45 06.1–.73	2.89S	128.44E	0	4.4L,4.3		¶17192578
DJA	II	20 08 45 11.4–.20	3S–3.0	128E–2.0	10	5.2b,4.8b		
ISC	Event type ke.							
ISC	**II**	**22 05 34 12.1–.51**	**2.76S–.04**	**126.39E–.05**	**32**	**4.2b**	**53**	**1-151**
IDC	II	22 05 34 07.4–.62	2.72S	126.59E	0	4.3,4.2L		¶16398718
ISCJB	II	22 05 34 10.8–.31	2.77S–.03	126.36E–.03	32	4.1b,3.2s		
NEIC	II	22 05 34 12.8–.83	2.77S	126.55E	38–9	4.7b,3.2s		
DJA	II	22 05 34 12.1–.40	3S–2.0	126E–2.0	21–5	5.4b,5.0b		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
IDC	**II**	**27 10 24 05.3–2.1**	**2.80S**	**128.26E**	**0**	**3.9,3.7**		
								¶17192945
IDC	Error ellipse: s-maj=155.4km s-min=25.6km az=68.0.							
ISC	**II**	**27 12 03 06.3–1.1**	**2.6S–.10**	**126.8E–.20**	**10**	**3.9b**	**7**	**7-88**
ISCJB	II	27 12 03 04.2–.88	2.6S–.10	126.8E–.20	10	3.8b,3.6s		¶17192950
IDC	II	27 12 03 04.5–1.2	2.50S	126.88E	0	3.9,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=23.5km s-min=14.6km az=156.1.							
IDC	Error ellipse: s-maj=47.4km s-min=20.6km az=69.0.							
DJA	**III**	**01 15 25 33.3–1.7**	**3S–16**	**128E–14**	**12–31**	**2.3,2.3**		
								¶602002386
ISC	**III**	**02 10 24 23.5–.97**	**2.77S–.04**	**127.94E–.04**	**63–13**		**23**	**1-32**
IDC	III	02 10 24 11.1–8.8	2.04S	128.42E	0	4.4,4.2		¶17193126
DJA	III	02 10 24 20.6–.30	3S–2.0	128E–2.0	10	3.9,3.9		
ISCJB	III	02 10 24 22.3–.50	2.70S–.04	127.99E–.04	52–10	4.2b,3.9		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**04 00 36 24.7–.88**	**2.38S–.07**	**128.05E–.06**	**32**	**3.5b**	**14**	**1-63**
IDC	III	04 00 36 19.5–1.5	2.27S	128.33E	0	3.8,3.7		¶17193213
ISCJB	III	04 00 36 23.1–.69	2.34S–.06	128.12E–.06	32	3.6b,3.7		
DJA	III	04 00 36 25.8–.70	2S–5.0	128E–3.0	62–19	5.1b,5.0b		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**04 13 29 15.8–1.6**	**2.70S–.05**	**126.9E–.20**	**35**		**11**	**1-63**
IDC	III	04 13 28 59.7–2.4	1.32S	127.92E	0	3.3,3.3L		¶17193233
DJA	III	04 13 29 16.0–.30	3S–2.0	127E–3.0	10	4.7b,4.7b		
ISCJB	III	04 13 29 16.7–.57	2.70S–.04	127.12E–.06	33	3.2b,4.7b		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**05 17 25 42.6–.54**	**2.68S–.04**	**128.91E–.05**	**35**	**4.0b,3.1s**	**41**	**1-92**
NEIC	III	05 17 25 37.5–5.0	2.67S	128.92E	1–33	4.4b,3.1s		¶16403012
IDC	III	05 17 25 37.5–.72	2.56S	129.17E	0	4.2,4.0		
ISCJB	III	05 17 25 40.9–.34	2.68S–.04	128.89E–.04	33	4.0b,3.4s		
DJA	III	05 17 25 41.1–.20	3S–2.0	129E–2.0	10	5.2b,4.9b		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**III**	**07 04 56 55.9–1.2**	**2.47S–.09**	**128.60E–.09**	**35**		**12**	**1-64**
IDC	III	07 04 56 50.8–2.2	2.74S	128.17E	0	4.0,3.9L		¶17193395
DJA	III	07 04 56 53.3–.90	3S–9.0	129E–5.0	126–9	5.3b,4.8		
ISCJB	III	07 04 56 54.5–.79	2.35S–.06	128.59E–.07	33	3.7b,2.8s		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**III**	**10 01 56 14.2–.50**	**2S–9.0**	**125E–4.0**	**10**	**4.5b,4.0**		
								¶602002953
DJA	**III**	**12 01 19 25.8–.30**	**2S–2.0**	**129E–3.0**	**10**	**4.0,4.0**		
								¶602003000
IDC	**III**	**16 15 02 19.1–14**	**2.08S**	**125.96E**	**0**	**3.7,3.6L**		
								¶17196476
IDC	Error ellipse: s-maj=217.8km s-min=166.3km az=136.0.							
IDC	**III**	**16 21 02 30.5–2.1**	**2.54S**	**127.21E**	**0**	**3.6,3.5L**		
								¶17196535
IDC	Error ellipse: s-maj=149.0km s-min=27.8km az=66.0.							
DJA	**III**	**28 09 24 42.4–1.0**	**2S–3.0**	**128E–3.0**	**125–10**	**3.6,3.6**		
								¶602003606
ISC	**III**	**28 09 40 10.4–.64**	**2.22S–.05**	**128.05E–.05**	**33**	**3.9b**	**22**	**1-126**
IDC	III	28 09 40 05.5–.84	2.07S	128.51E	0	4.0,4.0		¶17198931
ISCJB	III	28 09 40 09.3–.47	2.15S–.06	128.09E–.04	33	3.9b,3.5s		
DJA	III	28 09 40 11.6–.40	2S–5.0	128E–3.0	77–18	5.3b,4.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**IV**	**03 06 54 28.3–10**	**2.46S**	**127.65E**	**0**	**3.5,3.4**		
								¶17199627
IDC	Error ellipse: s-maj=193.0km s-min=139.5km az=83.0.							
ISC	**IV**	**08 14 26 11.8–.71**	**2.14S–.06**	**127.87E–.06**	**33**	**3.5b,3.0s**	**19**	**1-65**
ISCJB	IV	08 14 26 10.9–.51	2.10S–.05	127.82E–.06	33	3.7b,3.1s		¶17200251
DJA	IV	08 14 26 14.1–1.6	2S–3.0	128E–4.0	37–23	4.9b,4.8b		
IDC	IV	08 14 26 16.0–4.7	2.16S	127.97E	75–45	4.0L,3.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.2km s-min=6.0km az=156.8.							
IDC	Error ellipse: s-maj=79.1km s-min=10.5km az=67.0.							
ISC	**IV**	**18 23 55 26.3–.97**	**2.37S–.07**	**128.1E–.10**	**32**		**9**	**1-63**
IDC	IV	18 23 55 22.4–2.6	2.46S	128.29E	0	3.6,3.5L		¶17201455
ISCJB	IV	18 23 55 23.9–1.0	2.40S–.07	128.2E–.10	32	3.5b,3.5L		
DJA	IV	18 23 55 26.0–.40	2S–3.0	128E–5.0	10	3.3,3.3		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**15 03 04 51.7–.55**	**2.24S–.06**	**128.23E–.05**	**34**	**4.3b**	**39**	**1-151**
IDC	V	15 03 04 46.7–.81	2.18S	128.51E	0	4.3,4.2		¶16590015
ISCJB	V	15 03 04 50.2–.36	2.25S–.05	128.22E–.03	34	4.2b,3.2s		
NEIC	V	15 03 04 52.1–1.0	2.21S	128.39E	41–11	4.3b,3.2s		
DJA	V	15 03 04 53.1–.30	2S–3.0	128E–2.0	102–6	5.1b,4.5		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
IDC	**V**	**17 07 21 32.8–2.4**	**2.18S**	**125.49E**	**0**	**3.4L,3.3**		
								¶17203797
IDC	Error ellipse: s-maj=379.1km s-min=26.0km az=64.0.							
ISC	**V**	**18 17 44 01.6–.65**	**2.21S–.04**	**128.57E–.05**	**34**	**4.2b**	**29**	**2-68**
DJA	V	18 17 44 04.0–1.7	2S–2.0	128E–2.0	24–20	4.8b,4.5b		¶17203893
IDC	V	18 17 44 05.8–2.3	2.31S	128.39E	62–27	4.1,4.0L		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=22.0km s-min=14.5km az=124.0.							
IDC	**V**	**19 01 25 26.8–2.2**	**2.43S**	**127.56E**	**0**	**3.5L,3.4**		
								¶17203927
IDC	Error ellipse: s-maj=196.6km s-min=26.0km az=67.0.							
ISC	**V**	**19 04 53 33.3–.95**	**2.01S–.06**	**128.23E–.05**	**33**		**18**	**2-63**
IDC	V	19 04 53 28.6–2.1	2.28S	128.08E	0	3.8,3.6		¶17203944
ISCJB	V	19 04 53 31.6–.51	2.12S–.06	128.21E–.04	33	3.8b,3.6		
DJA	V	19 04 53 33.3–1.6	2S–3.0	128E–3.0	30–19	3.7,3.7		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**V**	**22 18 40 16.6–2.0**	**2.56S**	**126.79E**	**0**	**3.3,3.2**		
								¶17204254
IDC	Error ellipse: s-maj=167.9km s-min=27.6km az=65.0.							
ISC	**V**	**23 17 01 19.8–.61**	**2.19S–.06**	**128.18E–.10**	**33**	**4.3b,2.8s**	**24**	**3-88**
ISCJB	V	23 17 01 18.0–.43	2.11S–.04	128.14E–.07	33	4.1b,2.8s		¶16710728
IDC	V	23 17 01 22.4–2.5	2.08S	128.26E	54–25	4.1,4.0L		
NEIC	V	23 17 01 25.4–2.8	2.18S	128.19E	88–29	4.5b,4.0L		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=9.4km s-min=6.3km az=175.1.							
IDC	Error ellipse: s-maj=18.7km s-min=12.9km az=102.0.							
NEIC	Event type se. Error ellipse: s-maj=24.1km s-min=8.9km az=62.0.							
IDC	**V**	**28 04 59 01.1–4.1**	**2.41S**	**128.22E**	**85–38**	**3.8,3.6**		
								¶17204606
IDC	Error ellipse: s-maj=48.0km s-min=14.3km az=76.0.							
IDC	**VI**	**01 18 06 58.2–4.2**	**2.02S**	**125.70E**	**347–52**	**3.6,3.0**		
								¶17204914
IDC	Error ellipse: s-maj=68.9km s-min=16.7km az=74.0.							
ISC	**VI**	**06 20 25 43.5–.84**	**2.43S–.10**	**128.39E–.10**	**35**	**3.8b,3.1s**	**11**	**3-77**
ISCJB	VI	06 20 25 41.6–.68	2.31S–.07	128.28E–.08	33	3.8b,3.1s		¶17205430
IDC	VI	06 20 25 45.8–2.6	2.42S	128.45E	66–29	3.9,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=12.4km s-min=8.7km az=38.1.							
IDC	Error ellipse: s-maj=28.8km s-min=18.4km az=95.0.							
ISC	**VI**	**06 23 02 37.7–.56**	**2.21S–.05**	**128.32E–.05**	**34**	**4.1b**	**43**	**1-126**

IDC VI 06 23 02 33.1–.77 2.18S 128.49E 0 4.1,4.0 **¶16856522**
ISCJB VI 06 23 02 36.0–.39 2.24S–.04 128.39E–.04 34 4.1b,4.0
DJA VI 06 23 02 37.9–1.0 2S–3.0 128E–3.0 23–14 3.7,3.7
NEIC VI 06 23 02 38.0–1.1 2.25S 128.45E 39–12 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=37.2km s-min=12.0km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=146.8.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.6km az=223.0.
IDC VI 15 18 17 22.1–1.7 2.97S 128.40E 0 3.9,3.7
¶17206199
IDC Error ellipse: s-maj=135.3km s-min=23.9km az=68.0.
ISC VI 22 20 11 59.8–.78 2.39S–.08 128.2E–.20 32 3.9b 16 6-77
ISCJB VI 22 20 11 57.9–.53 2.37S–.06 128.0E–.10 32 3.8b,3.6s **¶16731259**
NEIC VI 22 20 11 59.3–6.7 2.37S 128.04E 28–51 4.4b,3.6s
IDC VI 22 20 12 00.6–3.0 2.45S 128.12E 40–28 3.9L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=7.3km az=161.4.
NEIC Event type se. Error ellipse: s-maj=27.6km s-min=9.4km az=61.0.
IDC Error ellipse: s-maj=36.9km s-min=9.5km az=73.0.
IDC VI 26 01 52 11.7–1.8 2.65S 128.92E 0 3.6,3.5
¶17206950
IDC Error ellipse: s-maj=110.3km s-min=24.9km az=75.0.

(271) Buru.

ISC II 18 08 10 25.7–.43 3.48S–.05 126.55E–.05 10 4.4b,3.2s 66 1-150
ISCJB II 18 08 10 24.0–.27 3.56S–.04 126.58E–.04 10 4.4b,3.4s **¶16158801**
DJA II 18 08 10 26.0–.40 3S–6.0 127E–3.0 10 5.2b,5.0b
NEIC II 18 08 10 29.4–.29 3.56S 126.66E 35 4.5b,5.0b
BJI II 18 08 10 29.6 3.50S 126.70E 35 5.1b,4.6s
IDC II 18 08 10 32.0–3.5 3.71S 126.40E 72–35 4.2,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=144.6.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.0km az=56.0.
IDC Error ellipse: s-maj=27.5km s-min=12.2km az=45.0.
ISC II 18 11 49 23.5–.90 3.42S–.07 126.59E–.06 10 13 1-63
ISCJB II 18 11 49 22.3–.64 3.45S–.07 126.54E–.06 10 3.9b **¶17192477**
IDC II 18 11 49 22.6–1.8 3.34S 126.79E 0 4.2,4.0
DJA II 18 11 49 24.1–.60 3S–8.0 127E–4.0 10 4.8b,4.8b
ISC Event type ke.
ISCJB Event type ke.
ISC II 18 12 01 18.4–.81 3.39S–.07 126.96E–.06 35 3.7b 17 0-64
DJA II 18 12 01 14.7–.60 3S–4.0 127E–3.0 33–4 5.1b,4.4b **¶17192479**
IDC II 18 12 01 14.2–1.6 3.24S 126.85E 0 4.0,3.9L
ISCJB II 18 12 01 16.6–.58 3.33S–.05 126.79E–.05 33 3.8b,3.0s
ISC Event type ke.
ISCJB Event type ke.
IDC V 12 01 30 37.5–5.7 3.52S 127.00E 123–65 4.0,3.7
¶17203445
IDC Error ellipse: s-maj=56.8km s-min=19.8km az=92.0.

(272) Seram.

IDC I 04 22 15 57.6–1.5 3.35S 130.79E 0 3.5,3.4
¶17189458
IDC Error ellipse: s-maj=64.9km s-min=22.4km az=86.0.
DJA I 05 08 21 01.7–.50 3S–3.0 129E–2.0 13–4 4.8b,3.6
¶601988844
ISC I 05 22 22 52.8–.81 3.74S–.06 128.68E–.05 150 24 0-65
ISCJB I 05 22 22 51.5–.43 3.71S–.04 128.70E–.04 150 3.1b **¶17189551**
DJA I 05 22 22 55.7–.40 4S–3.0 129E–2.0 95–5 3.6,3.6
IDC I 05 22 22 55.5–2.4 3.74S 129.18E 182–32 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=148.8.
IDC Error ellipse: s-maj=39.1km s-min=13.5km az=72.0.
DJA I 09 15 23 33.3–.80 3S–5.0 130E–3.0 25–11 3.5,3.5
¶601989052
ISC I 11 01 55 31.9–.64 2.87S–.05 129.77E–.04 25 4.2b 27 1-150
IDC I 11 01 55 27.7–.82 2.93S 129.73E 0 4.4,4.2 **¶17189890**
ISCJB I 11 01 55 31.7–.43 2.80S–.04 129.77E–.03 25 4.1b,3.7s
DJA I 11 01 55 34.0–.20 3S–3.0 130E–2.0 47–21 4.4b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 03 12 23.6–.87 2.89S–.05 130.31E–.07 24 3.9b 17 1-69
IDC I 15 03 12 20.8–2.8 2.86S 130.49E 0 4.0L,3.8 **¶17190224**
DJA I 15 03 12 26.3–1.1 3S–3.0 130E–3.0 21–14 3.8,3.8
ISC Event type ke.
DJA I 15 03 53 25.6–.40 4S–5.0 129E–4.0 44–8 3.8,3.8
¶601989349
IDC I 31 10 12 43.1–2.6 3.73S 128.96E 0 3.7,3.5
¶17191397
IDC Error ellipse: s-maj=217.3km s-min=27.7km az=68.0.
ISC II 02 09 26 53.1–.88 3.06S–.04 130.05E–.04 41–8 4.5b,3.9s 101 1-154
IDC II 02 09 26 47.0–.54 3.02S 130.11E 0 4.5L,4.4 **¶15997479**
BJI II 02 09 26 48.1 3.56S 130.09E 34 5.1b,4.7s
ISCJB II 02 09 26 51.8–.45 3.06S–.03 130.09E–.03 45–4 4.5b,3.9s
NEIC II 02 09 26 52.8–.65 3.05S 130.09E 40–6 4.6b,3.9s
DJA II 02 09 26 53.6–.30 3S–4.0 130E–2.0 57–10 5.3b,5.2b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 03 18 34 55.8–1.1 3.33S–.08 127.37E–.04 42 16 0-64
IDC II 03 18 34 45.7–1.7 2.95S 127.84E 0 3.8,3.8L **¶17191608**
ISCJB II 03 18 34 54.9–.58 3.41S–.08 127.30E–.04 42 3.3b,3.8L
DJA II 03 18 34 55.4–.40 3S–7.0 127E–3.0 28–4 4.3b,4.0
ISC Event type ke.
ISCJB Event type ke.
DJA II 06 14 18 10.8–1.8 3S–17 127E–14 10 3.9b,3.5
¶602001134
DJA II 07 06 07 04.4–.40 3S–6.0 129E–3.0 42–7 3.6,3.6
¶602001207
ISC II 10 01 29 47.5–1.3 3.6S–.20 127.7E–.20 250 9 0-64
IDC II 10 01 29 39.1–6.2 4.08S 127.09E 128–61 3.7,3.3 **¶17191985**
ISCJB II 10 01 29 49.0–.84 3.5S–.10 127.8E–.20 250 3.4b,3.3
DJA II 10 01 29 53.4–1.9 4S–35 128E–15 199–11 3.1,3.1
ISC Event type ke.
ISCJB Event type ke.
ISC II 11 06 29 01.6–.86 3.99S–.06 128.90E–.06 32 13 1-65
DJA II 11 06 28 55.2–.80 4S–10 128E–5.0 104–6 3.7,3.7 **¶17192052**
IDC II 11 06 28 56.6–2.2 3.65S 129.84E 0 4.0,3.9b
ISCJB II 11 06 29 00.1–.69 4.04S–.06 128.93E–.06 32 3.8b,3.9b
ISC Event type ke.
ISCJB Event type ke.
IDC II 14 21 25 34.4–2.3 3.62S 130.54E 0 3.5,3.3
¶17192265
IDC Error ellipse: s-maj=114.1km s-min=27.1km az=75.0.
ISC II 19 10 38 46.8–.95 2.82S–.06 130.19E–.08 24 12 1-65
IDC II 19 10 38 42.8–2.5 2.73S 130.47E 0 3.9,3.7 **¶17192529**
ISCJB II 19 10 38 47.3–.81 2.81S–.07 130.12E–.06 24 3.6b,3.7
DJA II 19 10 38 49.0–1.1 3S–4.0 130E–3.0 25–14 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 20 16 20 15.4–.41 3.07S–.04 130.49E–.03 24 4.4b 67 2-150
IDC II 20 16 20 11.6–.73 2.94S 130.64E 0 4.2,4.2L **¶16057011**
ISCJB II 20 16 20 13.2–.29 3.08S–.04 130.47E–.03 24 4.4b,3.2s
DJA II 20 16 20 16.7–.20 3S–3.0 130E–2.0 85–10 5.5b,5.0
BJI II 20 16 20 16.1 3.20S 130.40E 32 4.9b,4.9s
NEIC II 20 16 20 17.3–.77 3.09S 130.45E 43–8 4.4b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=30.5km s-min=15.6km az=72.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.1km az=10.2.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=5.9km az=49.0.
ISC II 20 17 43 22.6–.58 2.97S–.06 130.60E–.04 24 3.8b 35 2-89
IDC II 20 17 43 19.9–.81 2.91S 130.73E 0 4.4L,4.1 **¶16398619**
ISCJB II 20 17 43 20.9–.44 2.93S–.05 130.61E–.04 24 3.8b,4.1
NEIC II 20 17 43 26.4–1.3 3.13S 130.58E 47–15 4.1b,4.1
DJA II 20 17 43 26.3–.40 3S–5.0 130E–2.0 58–17 5.0b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 22 11 49 29.7–.44 3.96S–.04 129.44E–.04 100 4.2b 72 1-70
ISCJB II 22 11 49 28.5–.27 4.01S–.03 129.40E–.03 100 4.4b **¶16136356**
NEIC II 22 11 49 30.7–.77 3.98S 129.38E 113–11 4.6b
BJI II 22 11 49 30.0 3.87S 129.38E 105 5.0b,4.5b
DJA II 22 11 49 32.4–.30 4S–4.0 129E–2.0 77–6 5.7b,5.3b
IDC II 22 11 49 32.5–2.9 3.99S 129.35E 126–27 4.1,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.4km az=151.2.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=8.6km az=48.0.
IDC Error ellipse: s-maj=35.2km s-min=13.8km az=61.0.
ISC II 24 09 25 47.0–1.4 2.65S–.09 129.3E–.10 35 4.0b 10 1-32
IDC II 24 09 25 12.8–8.4 0.22N 130.42E 0 4.1,4.1 **¶602002086**
DJA II 24 09 25 47.2–.40 3S–3.0 130E–3.0 10 3.8,3.8
ISCJB II 24 09 25 48.7–.74 2.68S–.06 129.49E–.06 35 4.1b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 24 09 38 33.6–.80 2.96S–.05 129.72E–.05 28 3.7b 19 1-75
IDC II 24 09 38 31.6–2.0 2.94S 129.50E 0 3.9,3.8L **¶17192781**
ISCJB II 24 09 38 34.3–.54 2.97S–.04 129.64E–.04 28 3.5b,3.8L
DJA II 24 09 38 34.8–.40 3S–3.0 130E–3.0 10 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 04 15 59 21.8–3.0 3.66S 128.17E 0 3.7L,3.6
¶17193240
IDC Error ellipse: s-maj=354.5km s-min=24.5km az=68.0.
ISC III 17 17 49 33.2–1.0 3.17S–.07 130.61E–.05 24 10 2-65
IDC III 17 17 49 32.0–4.0 3.46S 130.72E 0 3.8,3.7s **¶17196776**
DJA III 17 17 49 33.8–.30 3S–4.0 131E–2.0 10 3.1,3.1
ISCJB III 17 17 49 34.7–.70 3.06S–.07 130.59E–.05 24 3.6s,3.3b
ISC Event type ke.
ISCJB Event type ke.
IDC III 24 04 44 36.5–2.0 3.39S 128.60E 0 4.1L,4.0
¶17198285
IDC Error ellipse: s-maj=141.5km s-min=26.8km az=68.0.
ISC III 24 13 14 47.4–1.0 3.95S–.09 127.91E–.07 200 14 1-65
ISCJB III 24 13 14 46.4–.66 3.99S–.07 127.90E–.06 200 3.4b **¶17198353**
DJA III 24 13 14 49.5–1.5 4S–12 128E–9.0 179–12 3.4,3.4
IDC III 24 13 14 50.5–3.8 3.84S 128.27E 243–57 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=9.0km az=9.2.
IDC Error ellipse: s-maj=65.4km s-min=14.0km az=74.0.
ISC III 30 02 21 15.5–1.1 3.40S–.10 127.3E–.10 42 7 0-64
DJA III 30 02 21 04.0–.90 4S–10 127E–5.0 10 5.2b,4.7b **¶17199144**
IDC III 30 02 21 09.4–1.8 3.07S 127.98E 0 3.9,3.8
ISCJB III 30 02 21 13.7–1.1 3.42S–.09 127.3E–.10 42 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 02 01 28 45.5–2.8 3.77S 127.95E 0 3.9,3.6
¶17199478
IDC Error ellipse: s-maj=145.3km s-min=28.2km az=58.0.
ISC IV 02 12 49 42.0–.86 3.01S–.06 130.15E–.05 25 3.8b 15 1-69
IDC IV 02 12 49 38.0–1.8 3.10S 130.06E 0 3.9,3.7 **¶17199524**
ISCJB IV 02 12 49 41.0–.61 3.05S–.07 130.12E–.05 25 3.6b,3.7
DJA IV 02 12 49 43.1–1.5 3S–4.0 130E–3.0 28–19 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 05 53 56.7–3.9 3.38S 130.83E 0 3.6,3.4
¶17199619
IDC Error ellipse: s-maj=287.1km s-min=28.1km az=72.0.
ISC IV 03 15 03 09.2–.87 3.45S–.07 130.58E–.06 30 3.8b 14 1-69
IDC IV 03 15 03 05.0–1.7 3.21S 130.83E 0 4.1,4.0 **¶17199661**
DJA IV 03 15 03 06.1–1.5 4S–11 131E–5.0 122–20 3.9b,3.8
ISCJB IV 03 15 03 08.0–.60 3.36S–.06 130.55E–.07 30 3.8s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 15 14 47.6–.49 3.41S–.05 130.67E–.07 31 4.1b 44 1-129
IDC IV 03 15 14 43.2–.74 3.30S 130.69E 0 4.2,4.0 **¶16407584**
ISCJB IV 03 15 14 45.7–.33 3.41S–.04 130.62E–.05 31 4.1b,4.0
DJA IV 03 15 14 46.6–.40 3S–5.0 131E–3.0 10 4.0,4.0
NEIC IV 03 15 14 48.2–.35 3.37S 130.66E 35 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=36.9km s-min=15.1km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.4km az=162.7.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.9km az=62.0.
ISC IV 04 07 37 55.7–1.1 3.20S–.08 129.64E–.07 28 9 1-65
IDC IV 04 07 37 51.9–2.6 3.41S 129.05E 0 4.1,4.0b **¶17199743**
ISCJB IV 04 07 37 53.8–.74 3.34S–.09 129.57E–.07 28 3.9b,4.0b
DJA IV 04 07 37 54.5–.60 3S–9.0 130E–4.0 10 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
DJA IV 04 14 54 30.0–.50 3S–4.0 130E–2.0 59–10 4.4b,3.7
¶602003837
ISC IV 04 19 31 50.4–1.2 3.46S–.06 128.87E–.04 11–7 16 0-65
IDC IV 04 19 31 40.2–2.2 2.97S 128.12E 0 3.7,3.6L **¶17199804**
ISCJB IV 04 19 31 50.0–1.0 3.44S–.04 128.87E–.03 12–6 3.4b,3.6L
DJA IV 04 19 31 50.3–.30 3S–3.0 129E–2.0 10–2 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 05 09 34 23.3–.39 3.31S–.04 130.75E–.04 31 4.4b,3.9s 78 1-150
IDC IV 05 09 34 18.6–.58 3.32S 130.71E 0 4.4,4.3 **¶16577672**
ISCJB IV 05 09 34 21.6–.24 3.34S–.03 130.73E–.04 31 4.3b,3.9s
DJA IV 05 09 34 23.4–1.7 3S–3.0 131E–2.0 35–20 5.5b,4.9
NEIC IV 05 09 34 24.1–.38 3.35S 130.62E 35 4.4b,4.9
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=12.7km az=75.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.0km az=166.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.2km az=59.0.
IDC IV 05 18 43 04.6–4.0 3.15S 130.92E 0 3.8,3.6
¶17199919
IDC Error ellipse: s-maj=294.1km s-min=27.8km az=72.0.
ISC IV 06 19 04 29.8–1.1 3.27S–.07 130.66E–.07 35 9 1-100
IDC IV 06 19 04 23.8–4.3 3.12S 131.10E 0 4.4,4.4s **¶17200040**
ISCJB IV 06 19 04 28.6–.74 3.31S–.08 130.68E–.08 33 4.5s,3.5b
DJA IV 06 19 04 28.7–.50 3S–6.0 131E–4.0 10 3.4,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 20 16 28.0–.37 3.75S–.05 130.88E–.06 30 4.7b,3.8s 103 1-153
BJI IV 06 20 16 18.8 4.14S 131.25E 10 5.1b,4.9s **¶16413284**
IDC IV 06 20 16 23.5–.45 3.73S 130.79E 0 4.5,4.5
ISCJB IV 06 20 16 26.2–.26 3.72S–.04 130.86E–.03 30 4.7b,3.9s
DJA IV 06 20 16 26.9–1.0 4S–3.0 131E–2.0 30–12 5.3b,5.3b
NEIC IV 06 20 16 28.9–.72 3.67S 130.88E 36–7 4.8b,5.3b
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=11.2km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.7km az=33.4.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.6km az=49.0.
IDC IV 08 05 30 30.6–2.2 3.33S 128.99E 0 3.8,3.7L
¶17200201
IDC Error ellipse: s-maj=187.6km s-min=25.0km az=69.0.
DJA IV 12 12 27 41.1–.30 3S–3.0 129E–2.0 15–4 5.0b,4.3
¶602003962
DJA IV 12 14 09 05.4–.50 4S–5.0 129E–5.0 177–5 4.4b,4.0
¶602003964
DJA IV 15 12 48 13.4–.30 3S–3.0 130E–2.0 51–9 4.6b,3.7

¶602003997
ISC IV 16 06 29 11.4–.68 2.92S–.06 129.85E–.04 25 3.9b 28 1-81
IDC IV 16 06 29 07.0–1.3 2.91S 130.04E 0 4.2,4.0 ¶16532032
ISCJB IV 16 06 29 10.0–.43 2.95S–.05 129.81E–.04 25 4.0b,4.0
DJA IV 16 06 29 11.3–.30 3S–3.0 130E–2.0 10 4.0,4.0
NEIC IV 16 06 29 14.7–1.2 3.06S 130.01E 63–14 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=79.0km s-min=17.7km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.2km az=170.0.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=10.6km az=64.0.
ISC IV 16 22 02 27.5–.85 3.54S–.06 128.35E–.04 10 21 1-69
IDC IV 16 22 02 25.4–1.3 3.50S 128.12E 0 4.1L,3.9 ¶17201266
ISCJB IV 16 22 02 27.0–.55 3.53S–.05 128.37E–.03 10 3.5b,3.9
DJA IV 16 22 02 28.3–.30 4S–2.0 128E–2.0 10 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 17 12 44 47.3–2.0 3.19S 128.39E 0 4.3s,4.3
¶602004022
IDC Error ellipse: s-maj=139.9km s-min=26.6km az=68.0.
ISC IV 20 14 55 07.8–1.1 3.27S–.07 128.99E–.05 13–7 15 0-65
IDC IV 20 14 55 05.7–2.4 3.33S 128.81E 0 3.6,3.3 ¶17201624
ISCJB IV 20 14 55 07.1–.96 3.21S–.05 128.98E–.04 10–6 3.3b,3.3
DJA IV 20 14 55 07.9–.30 3S–2.0 129E–2.0 10 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
DJA IV 21 18 18 11.6–.90 3S–3.0 130E–3.0 17–12 4.5b,3.9
¶602004055
ISC IV 26 17 15 04.4–.67 3.13S–.06 128.05E–.06 38 4.0b 23 1-68
ISCJB IV 26 17 15 03.4–.43 3.01S–.04 128.05E–.04 38 3.9b,3.3s ¶17202168
DJA IV 26 17 15 03.8–.60 3S–4.0 128E–2.0 13–6 4.6b,4.3
IDC IV 26 17 15 09.3–3.1 3.24S 127.96E 86–30 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.3km az=35.4.
IDC Error ellipse: s-maj=36.4km s-min=9.8km az=69.0.
ISC V 04 22 56 14.4–.81 3.03S–.07 129.08E–.09 28 4.0b,3.3s 13 0-77
ISCJB V 04 22 56 13.2–.58 3.04S–.07 129.03E–.07 28 3.9b,3.3s ¶17202803
DJA V 04 22 56 13.7–.40 3S–4.0 129E–4.0 10 4.3b,4.2
IDC V 04 22 56 29.8–11 3.26S 129.53E 196–125 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.6km az=141.7.
IDC Error ellipse: s-maj=62.5km s-min=30.8km az=109.0.
IDC V 11 00 18 17.5–1.4 3.79S 127.83E 0 4.2,4.0
¶17203335
IDC Error ellipse: s-maj=45.1km s-min=24.2km az=74.0.
IDC V 24 04 58 48.6–1.4 3.90S 129.65E 0 4.3,4.3s
¶17204354
IDC Error ellipse: s-maj=44.0km s-min=23.7km az=88.0.
ISC V 29 20 11 13.7–.58 2.82S–.05 129.87E–.04 25 4.2b 34 1-150
ISCJB V 29 20 11 12.3–.45 2.85S–.06 129.78E–.05 25 4.1b,2.8s ¶16711239
DJA V 29 20 11 15.1–1.2 3S–4.0 130E–3.0 17–15 4.4b,4.1
IDC V 29 20 11 16.0–4.8 2.88S 129.96E 42–40 4.1,4.0L
NEIC V 29 20 11 17.8–1.3 2.97S 129.83E 58–14 4.1b,4.0L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.1km az=43.4.
IDC Error ellipse: s-maj=57.2km s-min=13.0km az=69.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=10.3km az=50.0.
IDC V 30 19 13 35.4–1.8 3.45S 130.90E 0 3.7,3.7
¶17204779
IDC Error ellipse: s-maj=90.8km s-min=28.0km az=82.0.
ISC VI 01 11 15 59.6–.95 2.86S–.07 129.37E–.06 28 13 1-64
IDC VI 01 11 15 55.8–2.3 2.90S 129.22E 0 4.2,4.0 ¶17204886
ISCJB VI 01 11 15 58.2–.66 2.90S–.07 129.33E–.06 28 3.9b,4.0
DJA VI 01 11 16 00.2–.80 3S–5.0 129E–3.0 20–10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 03 19 19 26.8–1.2 2.80S 129.66E 0 3.8,3.7
¶17205118
IDC Error ellipse: s-maj=42.2km s-min=21.6km az=83.0.
IDC VI 06 09 43 46.4–2.3 3.56S 130.46E 0 3.7,3.5
¶17205402
IDC Error ellipse: s-maj=118.2km s-min=26.6km az=75.0.
ISC VI 06 18 23 34.1–.47 2.84S–.04 129.61E–.05 28 4.2b 43 1-90
IDC VI 06 18 23 29.9–.67 2.88S 129.57E 0 4.2,4.1 ¶16856508
ISCJB VI 06 18 23 32.2–.34 2.89S–.03 129.62E–.04 28 4.1b,3.4s
DJA VI 06 18 23 34.9–.30 3S–3.0 130E–3.0 100 5.2b,4.6
NEIC VI 06 18 23 37.3–1.0 2.91S 129.68E 57–10 4.1b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=14.4km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=21.4.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=8.4km az=48.0.
ISC VI 06 19 01 51.5–1.1 3.0S–.10 129.8E–.20 28 7 3-65
IDC VI 06 19 01 47.5–1.2 2.93S 129.61E 0 3.9,3.9s ¶17205426
ISCJB VI 06 19 01 49.4–.95 2.97S–.09 129.7E–.20 28 3.7b,3.7s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 07 01 43 09.5–2.0 3.29S 127.18E 0 3.8,3.6
¶17205442
IDC Error ellipse: s-maj=55.8km s-min=28.1km az=59.0.
IDC VI 09 06 01 28.9–1.4 3.29S 128.15E 0 3.9,3.8
¶17205599
IDC Error ellipse: s-maj=44.1km s-min=22.7km az=78.0.
IDC VI 09 06 16 16.6–6.0 3.72S 129.16E 170–75 3.7,3.3
¶17205602
IDC Error ellipse: s-maj=103.9km s-min=18.4km az=82.0.
IDC VI 16 20 06 53.9–1.8 3.99S 130.84E 0 4.0,3.8
¶17206344
IDC Error ellipse: s-maj=110.3km s-min=25.3km az=72.0.
IDC VI 17 15 08 20.6–13 3.40S 128.94E 0 3.8,3.8L
¶17206396
IDC Error ellipse: s-maj=214.0km s-min=165.8km az=121.0.
IDC VI 18 09 42 52.4–2.2 3.71S 128.83E 0 3.6,3.4
¶17206451
IDC Error ellipse: s-maj=169.4km s-min=27.7km az=68.0.
IDC VI 18 23 35 26.4–2.4 3.63S 130.87E 0 3.7,3.5
¶17206496
IDC Error ellipse: s-maj=137.0km s-min=24.6km az=76.0.
IDC VI 27 13 27 37.6–2.5 2.84S 130.85E 0 3.8,3.6
¶17207078
IDC Error ellipse: s-maj=133.2km s-min=25.8km az=75.0.

SEISMIC REGION 24.
Sunda Arc.

(273) Southwest of Sumatera.

ISC I 01 06 47 51.0–1.5 3.36S–.08 100.0E–.20 10 3.7b 16 1-146
IDC I 01 06 47 46.5–3.3 3.48S 99.09E 0 3.7,3.6 ¶17189117
DJA I 01 06 47 53.8–1.0 3S–8.0 100E–15 12–8 3.6,3.6
ISC Event type ke.
IDC I 01 11 15 21.3–4.4 2.37S 98.76E 0 3.6,3.5
¶17189128
IDC Error ellipse: s-maj=187.7km s-min=23.5km az=56.0.
DJA I 03 14 47 14.2–2.4 7S–5.0 104E–6.0 19–33 4.1,4.1
¶601988724
DJA I 06 22 45 02.4–.70 7S–3.0 104E–6.0 10 3.8,3.8
¶601988908
ISC I 11 12 24 21.9–1.6 6.9S–.20 102.0E–.20 35 3.7b 8 6-147
IDC I 11 12 24 14.6–2.4 7.27S 101.42E 0 3.9,3.8 ¶17189914
ISC Event type ke.
IDC Error ellipse: s-maj=78.5km s-min=21.5km az=49.0.
ISC I 13 04 35 28.0–.54 3.37S–.07 99.72E–.08 35 4.6b,3.8s 106 1-147
BJI I 13 04 35 20.5 3.60S 99.70E 10 5.1b,4.7b ¶15928090
NEIC I 13 04 35 23.8–.43 3.48S 99.74E 10 4.6b,4.7b
DJA I 13 04 35 24.6–1.6 3S–8.0 100E–8.0 33–14 5.3b,4.7b
ISCJB I 13 04 35 25.4–.42 3.45S–.06 99.72E–.05 33 4.5b,3.7s
MOS I 13 04 35 25.7–1.0 3.35S 99.78E 33 4.7b,3.7s
IDC I 13 04 35 28.0–.64 3.43S 99.68E 35–3 4.4,4.3
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=5.9km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.4km az=40.6.
MOS Error ellipse: s-maj=19.3km s-min=8.3km az=106.6.
IDC Error ellipse: s-maj=23.0km s-min=11.3km az=45.0.
ISC I 19 22 32 25.0–2.1 3.5S–.30 99.8E–.40 35 3.8b 8 22-146
IDC I 19 22 32 19.7–2.1 3.50S 99.69E 0 4.0,3.8 ¶17190582
ISCJB I 19 22 32 23.2–1.9 3.4S–.30 99.8E–.40 33 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 22 15 46 59.9–1.1 8.5S–.10 104.68E–.09 35 3.4b 21 2-146
IDC I 22 15 46 51.8–1.7 9.20S 104.09E 0 4.2L,3.7 ¶17190752
DJA I 22 15 46 55.9–.70 9S–5.0 105E–7.0 10 4.2b,4.2
ISCJB I 22 15 46 58.8–1.1 8.44S–.08 104.83E–.08 33 3.4b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 16 20 43.2–.81 6.34S–.07 101.84E–.07 35 3.9b 58 3-147
IDC I 30 16 20 36.5–1.9 6.60S 101.46E 0 4.7L,4.0 ¶16024672
ISCJB I 30 16 20 40.9–.45 6.38S–.04 101.85E–.03 33 3.9b,2.8s
NEIC I 30 16 20 42.0–.83 6.56S 101.61E 35 4.3b,2.8s
DJA I 30 16 20 42.3–.50 6S–4.0 102E–3.0 85–28 5.5b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 01 00 44 52.1–4.0 3.12S 99.84E 0 3.7,3.7b
¶17191445
IDC Error ellipse: s-maj=176.9km s-min=27.0km az=56.0.
ISC II 06 11 21 17.5–.48 8.26S–.03 104.11E–.03 15–2 5.6b,5.3s 1406 2-172
ISCJB II 06 11 21 14.0–.57 8.27S–.02 104.10E–.02 4–3 5.6b,5.2s ¶16007698
IDC II 06 11 21 15.0–.33 8.25S 104.19E 0 5.3,5.3b
BJI II 06 11 21 15.3 8.30S 104.10E 13 5.8b,5.7s
NEIC II 06 11 21 16.3–.12 8.28S 104.07E 7 5.6,5.6W
DJA II 06 11 21 17.8–.10 8S–2.0 104E–1.0 10 6.0b,5.9
GCMT II 06 11 21 17.3–.10 8.47S 104.05E 12 5.7W,5.9
MOS II 06 11 21 18.1–.97 7.99S 103.97E 19 5.8b,5.3s
KLM II 06 11 21 19.3 8.17S 104.07E 28 6.2s,5.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.6km az=22.9.
IDC Error ellipse: s-maj=12.0km s-min=9.3km az=52.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=30.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13 $M_{\theta\theta}$1.97 $M_{\phi\phi}$-2.10 $M_{r\theta}$2.34 $M_{\theta\phi}$-0.76 $M_{\phi r}$-1.15 Best double couple: NP1:ϕ_s142.00000°,δ85.00000°,λ46.00000°. NP2: ϕ_s47.00000°,δ44.00000°,λ173.00000°. Principal axes: T 3.8400,Plg35.0000°,Azm15.0000° ; N -1.2400,Plg44.0000°,Azm147.0000°; P -2.6000,Plg26.0000°,Azm265.0000° M_o3.40000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s142.00000°,δ52.00000°,λ-161.00000°. NP2:ϕ_s40.00000°,δ75.00000°,λ-40.00000°. Principal axes: T Plg15.0000°,Azm96.0000°; N Plg0.0000°,Azm0.0000°; P Plg38.0000° ,Azm354.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s98,c180; s113,c325;Duration: 1τ7 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.93±.04 $M_{\theta\theta}$3.21±.03; $M_{\phi\phi}$-0.28±.04; $M_{r\theta}$0.33±.10; $M_{\theta\phi}$-3.01±.03; $M_{\phi r}$-0.77±.12; Best double couple: NP1: ϕ_s320.00000°,δ54.00000°,λ-61.00000°. NP2:ϕ_s97.00000°,δ45.00000°,λ-123.00000°. Principal axes: T 5.0010,Plg5.0000°,Azm30.0000°; N -1.8050,Plg23.0000°,Azm122.0000° ; P -3.1960,Plg67.0000°,Azm289.0000° M_o4.09900×10^{17}
MOS Error ellipse: s-maj=7.8km s-min=4.4km az=112.0.
ISC II 06 15 23 49.1–.94 8.20S–.09 104.20E–.09 35 3.9b 35 2-146
IDC II 06 15 23 41.4–.82 8.73S 103.65E 0 3.9,3.9L ¶16026097
NEIC II 06 15 23 43.1–.64 8.65S 103.94E 10 4.1b,3.9L
ISCJB II 06 15 23 45.7–.75 8.32S–.07 104.09E–.06 33 4.1s,3.9b
DJA II 06 15 23 50.7–.70 8S–8.0 104E–6.0 53–34 4.6b,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 12 16 09 13.3–.37 7.00S–.04 101.74E–.05 35 4.7b,3.8s 322 3-152
IDC II 12 16 09 08.6–.69 7.02S 101.72E 0 4.6,4.5b ¶16022197
NEIC II 12 16 09 09.2–.48 7.00S 101.75E 10 4.8b,4.5b
ISCJB II 12 16 09 11.3–.25 7.04S–.03 101.80E–.02 33 4.6b,3.9s
BJI II 12 16 09 11.7 7.00S 101.80E 30 5.2b,4.9s
DJA II 12 16 09 12.1–.30 7S–2.0 102E–3.0 10 5.7b,5.2
MOS II 12 16 09 12.1–.87 6.90S 101.79E 36 4.8b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=15.3km az=46.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.8km az=216.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=5.7.
MOS Error ellipse: s-maj=17.6km s-min=8.7km az=106.2.
DJA II 13 21 28 14.4–1.7 8S–3.0 105E–4.0 19–19 3.6,3.6
¶602001548
ISC II 15 18 14 08.6–.61 6.55S–.07 103.60E–.06 10 4.6b,3.5s 73 1-148
ISCJB II 15 18 14 05.5–.36 6.63S–.04 103.61E–.05 10 4.5b,3.6s ¶16339748
IDC II 15 18 14 07.1–1.0 6.35S 103.76E 0 4.5,4.4b
NEIC II 15 18 14 09.9–2.3 6.57S 103.62E 27–16 4.6b,4.4b
BJI II 15 18 14 10.4 6.60S 103.60E 34 5.1b,4.8s
DJA II 15 18 14 19.3–.60 6S–5.0 104E–4.0 10 4.4,4.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 15 19 20 44.0–.73 6.43S–.07 103.94E–.08 10 4.2b 34 1-145
IDC II 15 19 20 43.3–1.5 6.31S 103.85E 0 4.0,3.9 ¶16339745
NEIC II 15 19 20 44.4–.72 6.38S 103.98E 10 4.2b,3.9
DJA II 15 19 20 54.3–.60 6S–9.0 105E–8.0 70–10 3.8,3.8
ISC Event type se.
NEIC Event type se.
ISC II 15 20 35 16.2–.77 6.33S–.07 103.85E–.07 48 3.9b 35 1-145
IDC II 15 20 35 09.5–1.3 6.34S 103.78E 0 4.0,4.0s ¶16358604
NEIC II 15 20 35 11.2–.85 6.33S 103.94E 10 4.0b,4.0s
ISCJB II 15 20 35 13.8–.58 6.44S–.05 103.72E–.05 48 4.0s,3.9b
DJA II 15 20 35 16.0–1.2 6S–5.0 104E–4.0 23–11 3.7,3.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 15 22 55 01.5–.79 3.8S–.10 99.6E–.10 35 3.9b 29 1-74
IDC II 15 22 54 56.5–.84 3.91S 99.57E 0 3.9,3.8 ¶17192329
DJA II 15 22 54 57.5–1.7 4S–7.0 100E–7.0 24–15 5.1b,4.5
ISCJB II 15 22 54 59.3–.63 3.76S–.07 99.65E–.06 33 3.8b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC II 19 19 11 59.9–.69 3.68S–.09 99.48E–.09 35 4.0b 43 1-146
IDC II 19 19 11 54.9–.78 3.75S 99.44E 0 4.0,3.9b ¶16362996
NEIC II 19 19 11 56.2–.60 3.75S 99.49E 10 4.2b,3.9b
ISCJB II 19 19 11 57.7–.54 3.65S–.06 99.51E–.06 33 4.0b,2.8s
DJA II 19 19 11 57.2–1.7 4S–8.0 99E–8.0 29–14 4.5,4.5
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 20 08 07 48.7–5.0 8.53S 103.79E 0 3.6,3.5
¶17192575
IDC Error ellipse: s-maj=196.8km s-min=24.6km az=53.0.
ISC III 05 00 10 15.1–.41 6.02S–.05 101.50E–.05 35 4.6b,4.3s 195 2-151
BJI III 05 00 10 06.7 6.71S 101.69E 26 4.9b,4.7s ¶16196378
IDC III 05 00 10 10.0–.77 5.93S 101.43E 0 4.4,4.3b
ISCJB III 05 00 10 12.7–.27 6.02S–.03 101.50E–.03 33 4.5b,4.2s
MOS III 05 00 10 13.4–1.3 5.97S 101.39E 38 4.7b,4.2s
DJA III 05 00 10 13.4–.30 6S–3.0 102E–3.0 10 5.3b,4.8b
NEIC III 05 00 10 15.0–.31 5.95S 101.55E 35 4.6b,4.8b

ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=14.2km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=3.5km az=36.9.
MOS Error ellipse: s-maj=9.2km s-min=6.9km az=98.2.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.1km az=54.0.
IDC III 10 05 26 10.6–18 0.32S 97.04E 0 3.8,3.7b
¶17193606

IDC Error ellipse: s-maj=499.9km s-min=122.9km az=122.0.
IDC III 22 00 52 42.2–2.8 8.11S 102.92E 0 3.8,3.7
¶17197891

IDC Error ellipse: s-maj=107.4km s-min=28.2km az=51.0.
IDC III 26 10 46 53.9–4.4 3.57S 99.73E 0 3.9,3.8
¶17198629

IDC Error ellipse: s-maj=186.3km s-min=23.4km az=55.0.
ISC III 28 02 30 59.4–.87 6.37S–.08 103.71E–.09 35 4.1b 26 1-146
ISCJB III 28 02 30 57.0–.81 6.45S–.06 103.55E–.07 35 4.0b,3.6s **¶17198890**
IDC III 28 02 30 58.3–.76 6.89S 102.92E 50–5 4.0,3.8
DJA III 28 02 31 00.7–.60 6S–3.0 104E–4.0 10 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 30 03 24 01.1–.48 0.24S–.05 96.67E–.06 32 4.3b,3.6s 91 2-146
BJI III 30 03 23 55.6 0.20S 96.60E 10 4.9b,4.5b **¶16401467**
IDC III 30 03 23 56.5–.61 0.19S 96.49E 0 4.3,4.2L
NEIC III 30 03 23 58.9–4.9 0.16S 96.59E 16–29 4.4b,4.2L
ISCJB III 30 03 23 59.0–.32 0.20S–.03 96.69E–.03 32 4.2b,3.5s
DJA III 30 03 24 01.1–.70 0S–3.0 97E–6.0 66–12 6.0b,5.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 04 01 52 16.1–4.4 3.33S 99.89E 0 3.5,3.5
¶17199725

IDC Error ellipse: s-maj=184.0km s-min=22.5km az=55.0.
IDC IV 05 14 04 10.3–2.2 4.38S 100.44E 0 3.8,3.7
¶17199898

IDC Error ellipse: s-maj=105.0km s-min=19.1km az=58.0.
ISC IV 14 19 16 09.0–.80 0.45S–.06 98.00E–.08 27 4.2b 29 0-145
IDC IV 14 19 16 05.3–1.3 0.51S 98.09E 0 4.1b,4.0 **¶16587515**
ISCJB IV 14 19 16 07.4–.80 0.46S–.06 97.93E–.09 27 4.0b,3.2s
DJA IV 14 19 16 08.9–1.0 0S–6.0 98E–8.0 25–7 4.0,4.0
NEIC IV 14 19 16 08.6–6.6 0.48S 98.03E 25–43 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=46.1km s-min=17.4km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=6.8km az=151.9.
NEIC Event type se. Error ellipse: s-maj=34.0km s-min=10.4km az=51.0.
ISC IV 17 08 16 34.9–1.0 8.5S–.10 104.7E–.10 35 3.7b 24 2-146
DJA IV 17 08 16 26.6–.80 9S–6.0 104E–6.0 10 4.6b,4.6 **¶17201294**
IDC IV 17 08 16 28.5–1.2 8.91S 104.26E 0 4.0L,3.9
ISCJB IV 17 08 16 32.4–.79 8.57S–.08 104.66E–.06 33 3.7b,3.4s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 20 02 18 21.8–24 5.26S 101.60E 0 3.9,3.9
¶17201578

IDC Error ellipse: s-maj=1158.0km s-min=77.5km az=51.0.
ISC IV 22 01 15 26.0–1.4 6.0S–.10 100.48E–.08 35 4.1b 20 3-147
IDC IV 22 01 15 18.6–3.5 6.45S 100.27E 0 3.9,3.8 **¶16577859**
NEIC IV 22 01 15 23.2–1.9 6.50S 100.19E 35 4.2b,3.8
DJA IV 22 01 15 25.5–.80 6S–5.0 101E–4.0 25 4.2,4.2
ISC Event type se.
NEIC Event type se.
ISC IV 22 02 19 53.0–1.0 6.7S–.10 102.6E–.10 24 4.3b 39 2-147
ISCJB IV 22 02 19 50.2–.65 6.81S–.06 102.48E–.06 24 4.2b **¶16577861**
IDC IV 22 02 19 50.0–1.6 6.70S 102.58E 0 4.2,4.1b
NEIC IV 22 02 19 53.1–1.0 7.03S 102.07E 35 4.4b,4.1b
DJA IV 22 02 19 53.0–.50 7S–4.0 103E–4.0 79–34 5.6b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 29 02 00 35.2–.41 6.77S–.05 102.52E–.05 35 4.6b,4.3s 122 2-151
BJI IV 29 02 00 29.0 7.35S 102.76E 31 4.7b,4.7b **¶16546325**
IDC IV 29 02 00 29.8–.80 6.75S 102.42E 0 4.4,4.3b
NEIC IV 29 02 00 31.6–2.4 6.76S 102.45E 11–14 4.6b,4.3b
ISCJB IV 29 02 00 33.4–.28 6.73S–.03 102.58E–.03 33 4.6b,4.2s
DJA IV 29 02 00 35.9–.50 7S–5.0 103E–4.0 52–21 5.5b,5.1b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 30 03 22 49.3–.56 6.33S–.08 103.94E–.07 48 4.3b,3.5s 59 1-147
IDC IV 30 03 22 42.8–.65 6.29S 103.85E 0 4.7L,4.3 **¶16577924**
ISCJB IV 30 03 22 47.2–.38 6.44S–.05 103.79E–.04 48 4.2b,4.0s
NEIC IV 30 03 22 49.9–1.1 6.29S 103.91E 52–9 4.4b,4.0s
DJA IV 30 03 22 50.1–.70 6S–5.0 104E–5.0 30 4.4,4.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 30 05 02 31.7–1.0 6.41S–.08 103.81E–.08 48 4.1b 18 1-145
IDC IV 30 05 02 24.8–3.2 6.43S 103.69E 0 4.2,4.1b **¶17202436**
ISCJB IV 30 05 02 28.9–.82 6.51S–.07 103.66E–.06 48 4.1b,4.1b
DJA IV 30 05 02 29.8–.80 7S–5.0 104E–4.0 30 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC V 04 13 34 59.0–5.2 0.48S 97.35E 0 4.1,4.1
¶17202759

IDC Error ellipse: s-maj=126.6km s-min=68.8km az=31.0.
ISC V 05 18 18 16.8–1.0 3.53S–.09 99.5E–.10 35 4.0b 31 1-146
ISCJB V 05 18 18 14.1–.73 3.55S–.06 99.41E–.07 33 4.0b **¶16708951**
IDC V 05 18 18 14.8–1.9 3.10S 100.09E 0 4.0,3.9b
DJA V 05 18 18 16.4–1.0 4S–4.0 100E–4.0 31–11 5.2b,4.8b
NEIC V 05 18 18 19.9–8.6 3.01S 100.34E 28–58 4.3b,4.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=6.6km az=149.7.
IDC Error ellipse: s-maj=63.0km s-min=18.0km az=61.0.
NEIC Event type se. Error ellipse: s-maj=40.6km s-min=14.7km az=70.0.
IDC V 06 06 27 27.6–3.5 3.72S 99.25E 0 3.9,3.8
¶17202905

IDC Error ellipse: s-maj=150.9km s-min=20.4km az=57.0.
IDC V 06 13 55 31.4–4.3 3.54S 99.52E 0 3.6,3.4
¶17202926

IDC Error ellipse: s-maj=160.5km s-min=24.2km az=58.0.
ISC V 09 08 09 21.4–.49 3.50S–.06 99.49E–.06 35 4.5b,3.5s 172 1-151
IDC V 09 08 09 17.1–.77 3.38S 99.31E 0 4.5,4.4b **¶16501816**
NEIC V 09 08 09 18.1–.45 3.48S 99.47E 10 4.5b,4.4b
ISCJB V 09 08 09 19.5–.36 3.48S–.03 99.53E–.04 33 4.5b,3.6s
DJA V 09 08 09 22.6–.90 3S–3.0 100E–5.0 30–9 5.4b,5.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
DJA V 13 07 26 46.0–1.3 7S–8.0 103E–8.0 10 3.8,3.8
¶602004268
IDC V 21 18 00 17.9–2.6 3.77S 99.97E 0 3.8,3.7
¶17204152

IDC Error ellipse: s-maj=104.1km s-min=26.1km az=54.0.
IDC V 21 20 51 17.1–3.3 3.60S 99.66E 0 3.7,3.5
¶17204165

IDC Error ellipse: s-maj=131.3km s-min=20.0km az=57.0.
DJA V 24 06 28 59.5–1.1 6S–5.0 104E–5.0 13–8 3.6,3.6
¶602004363
DJA V 24 06 45 14.4–1.5 6S–5.0 104E–8.0 10 3.5,3.5
¶602004364
ISC V 24 16 43 58.6–1.4 8.0S–.20 104.1E–.10 35 3.5b 9 4-146
IDC V 24 16 43 53.6–3.4 7.92S 104.11E 0 3.6,3.5 **¶17204391**
ISCJB V 24 16 43 56.1–1.0 8.0S–.10 104.08E–.09 33 3.5b,3.5

ISC Event type ke.
ISCJB Event type ke.
ISC V 27 21 01 19.3–1.7 7.15S–.06 103.32E–.07 25–11 4.7b,4.3s 113 2-149
DJA V 27 21 01 13.5–.70 7S–6.0 103E–6.0 10 5.3b,5.2b **¶16631869**
IDC V 27 21 01 16.1–1.0 7.01S 103.32E 0 4.1,4.1b
ISCJB V 27 21 01 18.6–.34 7.05S–.04 103.37E–.04 33 4.8b,4.0s
BJI V 27 21 01 20.7 7.10S 103.40E 35 5.1b,4.7s
NEIC V 27 21 01 20.8–.32 7.10S 103.41E 35 5.0b,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=39.8km s-min=14.7km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.2km az=43.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=4.4km az=52.0.
DJA V 28 00 10 16.7–1.1 6S–5.0 104E–7.0 10 3.8,3.8
¶602004403
ISC V 29 18 24 02.8–.38 7.72S–.03 101.78E–.03 21–4 5.4b,5.4s 803 3-178
BJI V 29 18 23 59.0 7.80S 101.70E 10 5.8s,5.6 **¶16551537**
ISCJB V 29 18 24 00.5–.61 7.69S–.02 101.76E–.02 13–3 5.3s,5.3b
IDC V 29 18 24 00.0–.34 7.68S 101.76E 0 5.1,5.1
NEIC V 29 18 24 01.2–.26 7.72S 101.76E 13 6.4,5.9W
NEIC V 29 18 24 01.0–.00 7.75S 101.75E 15 6.4,5.9W
DJA V 29 18 24 01.8–.30 8S–3.0 102E–3.0 10 6.6,6.0b
GCMT V 29 18 24 01.2–.10 7.77S 101.71E 28–0 5.9W,6.0b
MOS V 29 18 24 04.0–1.4 7.46S 101.87E 33 5.4b,5.2s
KLM V 29 18 24 06.3 7.60S 101.64E 42 6.5s,6.0b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=15.0.
IDC Error ellipse: s-maj=11.4km s-min=9.9km az=56.0.
NEIC Event type fe. Error ellipse: s-maj=7.3km s-min=5.1km az=223.0. Felt [II] at Lampung. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s23 Moment tensor: Scale 10^{17}Nm; M_{rr}0.55 $M_{\theta\theta}$5.26 $M_{\phi\phi}$-5.82 $M_{r\theta}$0.88 $M_{\theta\phi}$2.67 $M_{\phi r}$0.71 Best double couple: NP1:ϕ_s123.00000°,δ80.00000° ,λ5.00000°. NP2:ϕ_s32.00000°,δ86.00000°,λ170.00000°. Principal axes: T 6.0600,Plg11.0000°,Azm347.0000°; N 0.4000,Plg79.0000°,Azm188.0000° ; P -6.4600,Plg4.0000°,Azm77.0000° $M_0$6.30000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s228.00000°,δ62.00000°,λ139.00000°. NP2: ϕ_s340.00000°,δ55.00000°,λ35.00000°. Principal axes: T Plg48.0000°,Azm191.0000° ; N Plg0.0000°,Azm0.0000°; P Plg4.0000°,Azm286.0000°
NEIC Event type se. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}0.40 $M_{\theta\theta}$0.40 $M_{\phi\phi}$-0.80 $M_{r\theta}$-2.70 $M_{\theta\phi}$-6.60 $M_{\phi r}$4.10 Best double couple: NP1:ϕ_s359.00000° ,δ78.00000°,λ29.00000°. NP2:ϕ_s263.00000°,δ60.00000°,λ167.00000°. Principal axes: T 9.1000,Plg28.0000°,Azm224.0000°; N -1.9000,Plg58.0000°,Azm18.0000° ; P -7.1000,Plg11.0000°,Azm128.0000° $M_0$8.00000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c249; s130,c413;Duration: 2^{s}1 Moment tensor: Scale 10^{17} Nm; M_{rr}0.17±.06 $M_{\theta\theta}$0.37±.05; $M_{\phi\phi}$-0.53±.06; $M_{r\theta}$-0.25±.11; $M_{\theta\phi}$-7.60±.05; $M_{\phi r}$0.68±.12; Best double couple: NP1:ϕ_s358.00000°,δ88.00000°,λ5.00000°. NP2:ϕ_s268.00000° ,δ85.00000°,λ178.00000°. Principal axes: T 7.5860,Plg5.0000°,Azm223.0000° ; N 0.1240,Plg84.0000°,Azm18.0000°; P -7.7100,Plg2.0000°,Azm133.0000° $M_0$7.64800×10^{17}
MOS Error ellipse: s-maj=8.7km s-min=4.6km az=109.2.
IDC VI 08 03 37 04.9–4.2 1.96S 96.75E 0 4.1s,4.1
¶17205526

IDC Error ellipse: s-maj=162.1km s-min=25.4km az=58.0.
IDC VI 09 17 00 52.3–3.8 6.23S 103.87E 0 3.8,3.7
¶17205647

IDC Error ellipse: s-maj=166.7km s-min=18.5km az=57.0.
ISC VI 10 09 25 29.3–1.0 5.86S–.08 101.80E–.08 22 4.0b,2.9s 37 2-146
IDC VI 10 09 25 24.1–2.3 6.12S 101.37E 0 4.0,3.8b **¶16856858**
ISCJB VI 10 09 25 26.7–.62 5.94S–.05 101.72E–.04 22 4.0b,2.9s
NEIC VI 10 09 25 30.7–.92 5.88S 101.76E 35 4.2b,2.9s
DJA VI 10 09 25 33.3–.50 6S–7.0 102E–6.0 125–11 5.0b,4.7b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 11 09 10 34.1–2.7 4.43S 100.64E 0 3.6,3.6
¶17205767

IDC Error ellipse: s-maj=98.3km s-min=21.6km az=56.0.
IDC VI 12 20 31 09.9–10 1.90S 94.04E 0 3.8,3.7
¶17205989

IDC Error ellipse: s-maj=455.0km s-min=32.1km az=53.0.
ISC VI 19 13 44 36.4–.48 3.39S–.04 99.50E–.05 25–2 4.7b,3.9s 262 1-147
BJI VI 19 13 44 29.1 3.82S 99.65E 10 5.0b,4.8b **¶16632978**
ISCJB VI 19 13 44 33.8–.93 3.35S–.03 99.52E–.03 20–6 4.6b,3.9s
NEIC VI 19 13 44 33.9–2.4 3.34S 99.52E 9–14 4.9b,3.9s
KLM VI 19 13 44 35.4 3.25S 99.40E 13 5.5s,5.0b
DJA VI 19 13 44 36.7–.60 3S–2.0 100E–3.0 23–5 5.5b,5.1
MOS VI 19 13 44 36.6–1.0 3.30S 99.56E 40 5.0b,5.1
IDC VI 19 13 44 38.2–.67 3.34S 99.43E 35–4 4.5,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.7km az=139.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.0km az=55.0.
MOS Error ellipse: s-maj=11.4km s-min=5.7km az=105.1.
IDC Error ellipse: s-maj=14.7km s-min=9.2km az=56.0.
ISC VI 20 22 44 19.5–1.3 7.41S–.10 104.05E–.09 35 3.7b 21 2-146
IDC VI 20 22 44 09.2–4.5 8.32S 102.80E 0 3.8,3.6b **¶17206637**
ISCJB VI 20 22 44 16.7–.97 7.48S–.06 103.95E–.06 33 3.6b,3.2s
DJA VI 20 22 44 19.5–.90 7S–13 104E–10 85–38 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC VI 28 14 49 03.8–1.3 6.4S–.10 103.28E–.10 35 4.0b 14 1-146
DJA VI 28 14 49 02.4–.70 6S–4.0 103E–5.0 10 4.1,4.1 **¶17207144**
IDC VI 28 14 49 20.3–9.5 5.41S 103.23E 132–86 3.9,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=72.9km s-min=17.7km az=59.0.
ISC VI 29 04 19 41.7–.43 5.09S–.03 101.86E–.04 29–2 5.2b,4.7s 692 1-153
BJI VI 29 04 19 36.0 5.64S 102.02E 33 5.3b,5.3s **¶16685762**
IDC VI 29 04 19 37.5–.43 5.03S 102.06E 0 4.8b,4.8
MOS VI 29 04 19 41.8–1.1 4.87S 102.12E 36 5.5b,4.8s
GCMT VI 29 04 19 42.2–.20 5.27S 101.69E 34–0 5.2W,4.8s
ISCJB VI 29 04 19 42.2–.49 5.03S–.03 101.91E–.03 44–4 5.1b,4.8s
NEIC VI 29 04 19 42.2–1.4 5.04S 101.89E 32–9 5.3b,4.8s
DJA VI 29 04 19 43.3–.40 5S–3.0 102E–3.0 42–3 5.9,5.7b
KLM VI 29 04 19 43.2 5.09S 101.76E 42 6.1s,5.5L
ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=8.9km az=52.0.
MOS Error ellipse: s-maj=10.0km s-min=5.0km az=108.3.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c119; s84,c127; Duration: 1^{s}0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.68±.02 $M_{\theta\theta}$-0.42±.01; $M_{\phi\phi}$-0.25±.02; $M_{r\theta}$0.47±.02; $M_{\theta\phi}$0.39±.01; $M_{\phi r}$-0.35±.03; Best double couple: NP1:ϕ_s127.00000°,δ65.00000° ,λ88.00000°. NP2:ϕ_s311.00000°,δ25.00000°,λ94.00000°. Principal axes: T 0.8920,Plg70.0000°,Azm34.0000°; N 0.0550,Plg1.0000°,Azm128.0000° ; P -0.9470,Plg20.0000°,Azm219.0000° $M_0$0.91900×10^{17}
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.2km az=136.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=53.0.

(274) Southern Sumatera.

DJA I 01 15 06 31.1–.60 3S–3.0 104E–4.0 31–11 3.5,3.5
¶601988584
ISC I 02 15 19 31.3–.31 4.57S–.03 101.32E–.03 26–1 5.6s,5.6b 1164 2-175
BJI I 02 15 19 24.0 5.07S 101.40E 22 6.0s,5.8 **¶15902867**
ISCJB I 02 15 19 27.2–.54 4.58S–.02 101.32E–.02 11–3 5.6s,5.5b
MOS I 02 15 19 31.0–1.0 4.33S 101.57E 33 5.7b,5.5s
GCMT I 02 15 19 31.0–.10 4.73S 101.22E 21–0 5.8W,5.5s
NEIC I 02 15 19 31.0–.49 4.46S 101.43E 22–3 5.7W,5.7b
IDC I 02 15 19 31.1–1.5 4.39S 101.49E 22–9 5.5,5.4s
KLM I 02 15 19 32.7 4.55S 101.31E 34 6.4s,5.9L
DJA I 02 15 19 32.6–.20 5S–1.0 101E–1.0 46–3 6.1,6.0b
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s116,c224; s106,c246;Duration: 1^{s}9 Moment tensor: Scale 10^{17}

Nm; M_{rr}2.93±.06 $M_{\theta\theta}$-1.63±.04; $M_{\phi\phi}$-1.30±.04; $M_{r\theta}$4.13±.15; $M_{\theta\phi}$1.36±.03; $M_{\phi r}$-3.27±.14; Best double couple: NP1:ϕ_s129.00000°,δ76.00000°,λ89.00000°. NP2:ϕ_s314.00000°,δ14.00000°,λ95.00000°. Principal axes: T 6.0560,Plg59.0000°,Azm37.0000° ; N -0.1010,Plg1.0000°,Azm129.0000°; P -5.9540,Plg31.0000°,Azm220.0000° M_o6.00500×10^{17}

NEIC Event type fe. Felt [IV] at Bengkulu and [III] at Kapahiang. Also felt at Curup. Moment Tensor Solution. s59 Moment tensor: Scale 10^{17}Nm; M_{rr}3.08 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-2.48 $M_{r\theta}$3.65 $M_{\theta\phi}$0.68 $M_{\phi r}$-1.71 Best double couple: NP1:ϕ_s127.00000°,δ73.00000°,λ75.00000°. NP2:ϕ_s351.00000°,δ23.00000°,λ132.00000°. Principal axes: T 5.4900,Plg59.0000°,Azm16.0000° ; N -1.2800,Plg15.0000°,Azm132.0000°; P -4.2100,Plg27.0000°,Azm229.0000° M_o5.00000×10^{17}

ISC	**I**	**02 17 03 44.0–.94**	**2.97S–.05**	**101.03E–.04**	**58–8**	**4.6b**	**146**	**1-147**
IDC	I	02 17 03 36.4–.65	2.93S	101.07E	0	4.7L,4.5		**¶15902874**
KLM	I	02 17 03 38.3	3.49S	101.17E	126	5.5s,4.7b		
MOS	I	02 17 03 41.4–.89	2.85S	101.17E	46	4.8b,4.7b		
NEIC	I	02 17 03 41.2–1.1	2.94S	101.12E	35–9	4.7b,4.7b		
ISCJB	I	02 17 03 43.3–.43	2.97S–.03	101.04E–.03	67–3	4.5b,4.7b		
DJA	I	02 17 03 44.6–.30	3S–2.0	101E–2.0	47–16	5.1b,4.8		
BJI	I	02 17 03 45.5	2.73S	101.19E	78	5.0b,4.7b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=24.1km s-min=12.3km az=47.0.							
MOS	Error ellipse: s-maj=14.9km s-min=7.3km az=110.4.							
NEIC	Event type se. Error ellipse: s-maj=18.2km s-min=6.8km az=51.0.							
ISCJB	Event type se. Error ellipse: s-maj=6.3km s-min=3.2km az=43.4.							
ISC	**I**	**03 02 21 52.8–1.4**	**5.0S–.10**	**102.8E–.10**	**64**	**3.5b**	**13**	**1-61**
IDC	I	03 02 21 48.2–3.8	4.17S	103.57E	0	3.5,3.4		**¶17189281**
ISCJB	I	03 02 21 50.7–1.2	5.0S–.10	102.67E–.09	64	3.6b,3.4		
DJA	I	03 02 21 53.6–1.3	5S–14	103E–14	53–39	3.4,3.4		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**04 00 28 32.8–.77**	**0.64S–.06**	**98.99E–.06**	**53**	**4.0b**	**32**	**1-82**
IDC	I	04 00 28 24.9–1.4	0.81S	98.94E	0	3.9,3.9b		**¶17189374**
ISCJB	I	04 00 28 30.7–.59	0.71S–.04	98.92E–.05	53	3.9b,3.9b		
DJA	I	04 00 28 31.3–.40	1S–3.0	99E–3.0	10	3.8,3.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**I**	**04 02 25 46.7–3.5**	**5.29S**	**103.10E**	**0**	**3.5,3.4**		**¶17189380**
IDC	Error ellipse: s-maj=150.4km s-min=22.5km az=57.0.							
ISC	**I**	**04 13 21 21.2–.00**	**1.09S–.08**	**98.72E–.09**	**26**	**3.6b**	**13**	**2-145**
IDC	I	04 13 21 16.6–2.3	1.27S	98.57E	0	3.7,3.6		**¶17189426**
ISCJB	I	04 13 21 19.8–.98	1.13S–.09	98.91E–.09	26	3.6b,3.6		
DJA	I	04 13 21 34.8–.60	0S–5.0	99E–6.0	10	6.5b,6.4b		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**05 10 15 38.0–.49**	**2.66S–.03**	**100.01E–.03**	**26–3**	**5.4b,5.0s**	**890**	**0-158**
BJI	I	05 10 15 32.2	2.76S	100.09E	7	5.6b,5.5b		**¶15905631**
IDC	I	05 10 15 34.1–.32	2.60S	100.06E	0	5.1,5.0		
MOS	I	05 10 15 34.2–3.3	2.60S	100.10E	33	5.7b,4.9s		
GCMT	I	05 10 15 35.9–.30	2.97S	99.75E	33–1	5.3W,4.9s		
NEIC	I	05 10 15 35.9–1.5	2.65S	100.00E	13–8	5.4b,4.9s		
ISCJB	I	05 10 15 35.3–.64	2.64S–.02	99.94E–.02	18–4	5.4b,5.0s		
KLM	I	05 10 15 38.6	2.73S	99.84E	47	6.3s,5.5b		
DJA	I	05 10 15 39.2–.60	3S–2.0	100E–2.0	25–5	5.9,5.8b		
ISC	Event type fe.							

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c93; s65,c89;Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.03 $M_{\theta\theta}$-0.57±.02; $M_{\phi\phi}$-0.22±.03; $M_{r\theta}$0.57±.04; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-0.54±.04; Best double couple: NP1:ϕ_s129.00000°,δ68.00000°,λ96.00000°. NP2:ϕ_s294.00000°,δ23.00000°,λ76.00000°. Principal axes: T 1.1340,Plg67.0000°,Azm50.0000°; N -0.0460,Plg6.0000°,Azm307.0000° ; P -1.0880,Plg22.0000°,Azm215.0000° M_o1.11100×10^{17}

NEIC	Event type fe. Felt [III] at Padang, Painan and Pariaman.							
ISCJB	Event type fe.							
ISC	**I**	**06 10 32 11.6–.95**	**5.88S–.06**	**103.58E–.10**	**38**	**3.9b**	**26**	**1-145**
IDC	I	06 10 32 05.9–1.6	5.78S	103.57E	0	3.9,3.8		**¶17189589**
DJA	I	06 10 32 15.7–.80	6S–3.0	104E–5.0	23–6	4.2b,4.2		
ISC	Event type ke.							
ISC	**I**	**07 01 14 45.5–.64**	**3.27S–.08**	**100.75E–.07**	**28**	**4.4b**	**43**	**1-149**
DJA	I	07 01 14 40.4–1.0	4S–8.0	100E–8.0	68–17	5.4b,4.9		**¶15981220**
IDC	I	07 01 14 40.9–1.1	3.39S	100.56E	0	4.3,4.2		
NEIC	I	07 01 14 48.9–2.3	3.39S	100.76E	62–17	4.5b,4.2		
ISC	Event type se.							
IDC	Error ellipse: s-maj=36.1km s-min=15.7km az=54.0.							
NEIC	Event type se. Error ellipse: s-maj=27.9km s-min=9.8km az=49.0.							
ISC	**I**	**08 14 41 19.6–.65**	**2.01S–.04**	**100.33E–.06**	**56**	**4.1b**	**40**	**1-145**
IDC	I	08 14 41 11.2–1.4	2.21S	100.26E	0	4.0,3.9		**¶16057150**
NEIC	I	08 14 41 16.3–.73	1.97S	100.48E	35	4.1b,3.9		
ISCJB	I	08 14 41 18.2–.51	2.05S–.04	100.28E–.06	56	4.0b,2.5s		
DJA	I	08 14 41 20.2–.30	2S–2.0	100E–3.0	10	6.1b,5.8		
KLM	I	08 14 41 24.0	1.67S	100.67E	10	4.9s,4.2b		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=66.9km s-min=15.7km az=57.0.							
NEIC	Event type fe. Error ellipse: s-maj=24.3km s-min=10.3km az=54.0. Felt [II] at Painan.							
ISCJB	Event type fe. Error ellipse: s-maj=8.7km s-min=5.8km az=169.1.							
ISC	**I**	**09 09 29 58.7–.50**	**2.30S–.05**	**100.75E–.06**	**50**	**4.4b**	**60**	**1-146**
ISCJB	I	09 09 29 56.0–.45	2.46S–.05	100.66E–.06	50	4.4b,2.4s		**¶15927195**
KLM	I	09 09 29 58.1	2.47S	100.69E	68	4.6b,4.3L		
IDC	I	09 09 29 59.7–3.9	2.21S	100.86E	60–33	4.2,4.0		
NEIC	I	09 09 30 00.7–1.2	2.31S	100.78E	74–9	4.7b,4.0		
DJA	I	09 09 30 00.6–.30	2S–2.0	101E–3.0	10	4.3,4.3		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**I**	**09 15 07 50.4–1.0**	**3.4S–.10**	**100.1E–.20**	**35**	**4.2b**	**18**	**5-147**
IDC	I	09 15 07 46.2–1.2	3.24S	100.22E	0	4.2,4.1		**¶15994800**
ISCJB	I	09 15 07 48.9–.88	3.2S–.10	100.2E–.20	33	4.1b,4.1		
NEIC	I	09 15 07 51.1–.80	3.24S	100.24E	35	4.3b,4.1		
ISC	Event type se.							
IDC	Error ellipse: s-maj=48.6km s-min=16.7km az=55.0.							
ISCJB	Event type se. Error ellipse: s-maj=29.6km s-min=9.9km az=146.1.							
NEIC	Event type se. Error ellipse: s-maj=28.9km s-min=8.7km az=54.0.							
ISC	**I**	**12 12 50 40.5–.88**	**2.90S–.08**	**100.21E–.10**	**28–6**	**4.1b**	**22**	**0-145**
DJA	I	12 12 50 39.1–.80	3S–4.0	100E–8.0	28–4	4.5b,4.3		**¶17189995**
IDC	I	12 12 50 42.9–1.8	2.49S	99.96E	24–4	4.0,4.0		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=69.8km s-min=16.5km az=56.0.							
ISC	**I**	**12 23 12 14.8–.85**	**4.6S–.10**	**101.62E–.08**	**37**	**4.0b**	**30**	**2-146**
IDC	I	12 23 12 08.9–1.4	4.53S	101.49E	0	4.0,3.9		**¶16328379**
ISCJB	I	12 23 12 12.3–.64	4.70S–.08	101.50E–.06	37	4.0b,3.9		
DJA	I	12 23 12 12.9–.50	5S–5.0	102E–4.0	10	5.3b,4.8b		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**I**	**13 04 41 08.4–3.8**	**2.86S**	**100.62E**	**0**	**3.8,3.6**		**¶17190031**
IDC	Error ellipse: s-maj=158.6km s-min=26.2km az=58.0.							
DJA	**I**	**14 01 44 45.7–.20**	**2S–2.0**	**102E–2.0**	**10**	**5.3b,4.7**		**¶601989315**
ISC	**I**	**14 19 49 54.9–.96**	**4.98S–.07**	**102.95E–.07**	**76–8**	**4.4b**	**63**	**1-145**
IDC	I	14 19 49 45.9–.73	4.84S	103.03E	0	4.4,4.3b		**¶16032769**
NEIC	I	14 19 49 50.4–2.3	4.81S	103.04E	30–16	4.5b,4.3b		
DJA	I	14 19 49 50.8–.50	5S–3.0	103E–3.0	10	4.5,4.5		
ISCJB	I	14 19 49 53.4–.67	5.04S–.05	102.90E–.06	83–5	4.3b,4.5		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**I**	**17 03 25 02.4–1.1**	**4.0S–.10**	**102.8E–.10**	**65**	**3.6b**	**13**	**1-144**
IDC	I	17 03 24 51.8–3.2	4.41S	102.22E	0	3.6,3.5		**¶17190369**
ISCJB	I	17 03 24 59.8–.89	4.14S–.09	102.75E–.09	65	3.5b,3.5		
DJA	I	17 03 25 05.4–.50	4S–7.0	103E–5.0	10	3.2,3.2		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**I**	**17 05 15 54.1–13**	**2.30S**	**101.73E**	**253–130**	**3.5,2.9**		**¶17190378**
IDC	Error ellipse: s-maj=125.6km s-min=22.7km az=60.0.							
ISC	**I**	**17 09 13 06.4–1.2**	**3.5S–.10**	**100.5E–.10**	**29**	**4.1b**	**17**	**1-146**
IDC	I	17 09 13 02.7–2.2	3.35S	100.43E	0	4.1,4.0		**¶17190391**
ISCJB	I	17 09 13 04.8–1.0	3.5S–.10	100.51E–.09	29	4.0b,4.0		
DJA	I	17 09 13 06.7–1.0	3S–13	101E–13	40–21	3.9,3.9		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**17 11 19 26.8–.36**	**3.63S–.04**	**100.46E–.05**	**29**	**4.9b,4.7s**	**305**	**1-149**
BJI	I	17 11 19 20.6	4.17S	100.61E	31	5.3b,5.1s		**¶15931552**
ISCJB	I	17 11 19 25.0–.25	3.61S–.03	100.47E–.03	29	4.8b,4.7s		
DJA	I	17 11 19 25.2–.70	4S–3.0	100E–3.0	22–8	5.5b,5.4		
GCMT	I	17 11 19 26.6–.30	3.97S	100.29E	37–1	5.1W,5.4		
NEIC	I	17 11 19 26.6–.27	3.61S	100.54E	27	5.0W,5.0b		
MOS	I	17 11 19 26.4–1.1	3.37S	100.67E	33	4.9b,4.6s		
IDC	I	17 11 19 27.8–2.9	3.40S	100.72E	29–19	4.6,4.5		
KLM	I	17 11 19 29.3	3.27S	100.39E	61	6.0s,5.0b		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=5.3km s-min=2.7km az=38.2.							

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c61; s54,c73; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.72±.24 $M_{\theta\theta}$-3.10±.15; $M_{\phi\phi}$-0.61±.20; $M_{r\theta}$2.42±.20; $M_{\theta\phi}$2.04±.11; $M_{\phi r}$-1.83±.27; Best double couple: NP1:ϕ_s124.00000°,δ64.00000°,λ95.00000°. NP2:ϕ_s293.00000°,δ27.00000°,λ80.00000°. Principal axes: T 4.7630,Plg71.0000°,Azm46.0000°; N 0.4980,Plg5.0000°,Azm302.0000° ; P -5.2560,Plg19.0000°,Azm211.0000° M_o5.01000×10^{16}

NEIC	Event type se. Error ellipse: s-maj=8.6km s-min=5.2km az=57.0. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}3.59 $M_{\theta\theta}$-3.21 $M_{\phi\phi}$-0.38 $M_{r\theta}$2.48 $M_{\theta\phi}$1.18 $M_{\phi r}$-0.58 Best double couple: NP1:ϕ_s106.00000°,δ63.00000°,λ86.00000°. NP2:ϕ_s294.00000°,δ28.00000°,λ97.00000°. Principal axes: T 4.4100,Plg72.0000°,Azm7.0000° ; N 0.0300,Plg3.0000°,Azm108.0000°; P -4.4400,Plg18.0000°,Azm199.0000° M_o4.40000×10^{16}							
MOS	Error ellipse: s-maj=13.6km s-min=6.1km az=109.3.							
IDC	Error ellipse: s-maj=16.5km s-min=8.5km az=38.0.							
ISC	**I**	**17 14 06 49.2–.74**	**3.6S–.10**	**100.5E–.10**	**29**	**4.4b**	**45**	**1-147**
IDC	I	17 14 06 44.6–.95	3.65S	100.51E	0	4.2,4.1b		**¶16009121**
ISCJB	I	17 14 06 47.4–.56	3.59S–.07	100.51E–.07	29	4.2b,3.3s		
DJA	I	17 14 06 49.5–.90	4S–7.0	101E–8.0	27–12	4.7b,4.5		
NEIC	I	17 14 06 50.1–.57	3.53S	100.62E	35	4.5b,4.5		
ISC	Event type se.							
IDC	Error ellipse: s-maj=32.8km s-min=12.8km az=49.0.							
ISCJB	Event type se. Error ellipse: s-maj=13.1km s-min=5.3km az=44.8.							
NEIC	Event type se. Error ellipse: s-maj=18.4km s-min=7.0km az=54.0.							
ISC	**I**	**17 14 30 27.2–.65**	**1.86S–.05**	**100.34E–.08**	**56**	**4.4b**	**33**	**1-146**
ISCJB	I	17 14 30 25.8–.49	1.88S–.06	100.32E–.07	56	4.2b,2.7s		**¶16009123**
DJA	I	17 14 30 27.7–.90	2S–4.0	100E–6.0	33–15	4.3b,4.2		
NEIC	I	17 14 30 28.2–1.4	1.95S	100.41E	70–9	4.4b,4.2		
IDC	I	17 14 30 29.1–4.2	1.91S	100.38E	75–34	4.1,3.9		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=11.3km s-min=6.5km az=149.3.							
NEIC	Event type se. Error ellipse: s-maj=20.9km s-min=9.1km az=47.0.							
IDC	Error ellipse: s-maj=47.5km s-min=14.3km az=53.0.							
ISC	**I**	**17 19 20 56.9–.18**	**5.10S–.03**	**102.60E–.03**	**39–2**	**6.1b,5.9s**	**1727**	**1-178**
BJI	I	17 19 20 49.5	5.73S	102.74E	33	6.2,6.2s		**¶15933576**
MOS	I	17 19 20 54.9–.89	4.90S	102.86E	30	6.3b,5.8s		
ISCJB	I	17 19 20 56.5–.33	5.09S–.02	102.65E–.02	45–2	6.1b,5.9s		
NEIC	I	17 19 20 56.0–.00	5.07S	102.69E	30	6.1b,5.9s		
DJA	I	17 19 20 57.1–.50	5S–2.0	103E–1.0	32–5	6.5,6.4b		
NEIC	I	17 19 20 57.2–.11	5.03S	102.65E	36	6.1b,6.0W		
IDC	I	17 19 20 57.2–1.2	5.02S	102.71E	36–9	5.9,5.7		
GCMT	I	17 19 20 57.2–.10	5.37S	102.45E	35–0	6.0W,5.7		
KLM	I	17 19 20 59.5	5.05S	102.66E	65	6.9s,6.1b		
NEIC	I	17 19 21 09.0–.00	5.63S	102.49E	34	6.9s,6.1b		
ISC	Event type fe.							
MOS	Error ellipse: s-maj=8.6km s-min=4.5km az=118.5.							
ISCJB	Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=36.4.							
NEIC	Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s140.00000°,δ74.00000°,λ94.00000°. NP2:ϕ_s305.00000°,δ16.00000°,λ76.00000°. Principal axes: T 1.3300,Plg60.0000°,Azm56.0000°; N 0.1400,Plg4.0000°,Azm319.0000° ; P -1.4600,Plg29.0000°,Azm227.0000°							
NEIC	Event type fe. Error ellipse: s-maj=4.6km s-min=3.1km az=222.0. Felt [IV] at Bengkulu, Bintuhan and Manna; [III] at Kapahiang and Liwa. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s42 Moment tensor: Scale 10^{17}Nm; M_{rr}6.34 $M_{\theta\theta}$-3.95 $M_{\phi\phi}$-2.39 $M_{r\theta}$3.49 $M_{\theta\phi}$3.55 $M_{\phi r}$-0.28 Best double couple: NP1:ϕ_s114.00000°,δ59.00000°,λ73.00000°. NP2:ϕ_s324.00000°,δ35.00000°,λ116.00000°. Principal axes: T 7.4800,Plg71.0000°,Azm345.0000° ; N -0.0400,Plg14.0000°,Azm122.0000°; P -7.4400,Plg12.0000°,Azm216.0000° M_o7.50000×10^{17}							
IDC	Error ellipse: s-maj=11.7km s-min=7.1km az=49.0.							

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c283; s115,c375;Duration: 2ŝ4 Moment tensor: Scale 10^{18}Nm; M_{rr}0.84±.01 $M_{\theta\theta}$-0.54±.01; $M_{\phi\phi}$-0.30±.01; $M_{r\theta}$0.75±.01; $M_{\theta\phi}$0.43±.01; $M_{\phi r}$-0.50±.01; Best double couple: NP1:ϕ_s125.00000°,δ68.00000°,λ88.00000°. NP2:ϕ_s310.00000°,δ22.00000°,λ95.00000°. Principal axes: T 1.2330,Plg67.0000°,Azm31.0000°; N 0.0170,Plg2.0000°,Azm125.0000° ; P -1.2500,Plg23.0000°,Azm216.0000° M_o1.24200×10^{18}

NEIC	Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s311.00000°,δ20.00000°,λ102.00000°. NP2:ϕ_s118.00000°,δ70.00000°,λ86.00000°. Principal axes: T 1.2000,Plg64.0000°,Azm21.0000°; N -0.1100,Plg4.0000°,Azm120.0000° ; P -1.0900,Plg25.0000°,Azm212.0000°							
ISC	**I**	**17 21 24 29.4–1.3**	**2.9S–.10**	**99.6E–.10**	**35**	**3.6b**	**17**	**0-146**
DJA	I	17 21 24 21.8–4.8	3S–10	99E–28	15–19	6.0b,5.6		**¶17190427**
IDC	I	17 21 24 24.6–3.6	2.98S	99.62E	0	4.2s,4.2		
ISCJB	I	17 21 24 26.5–1.2	3.03S–.09	99.5E–.10	33	4.2s,4.0b		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**19 05 47 17.8–2.7**	**2.6S–.40**	**100.0E–.60**	**30**	**3.5b**	**8**	**21-145**
IDC	I	19 05 47 13.2–3.1	2.66S	99.94E	0	3.7,3.5		**¶17190533**
ISCJB	I	19 05 47 15.4–2.4	2.6S–.40	99.9E–.60	30	3.5b,3.5		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**I**	**20 14 47 30.3–15**	**2.15S**	**100.99E**	**111–132**	**3.9,3.6**		**¶17190628**
IDC	Error ellipse: s-maj=141.7km s-min=14.8km az=58.0.							
IDC	**I**	**20 17 31 15.1–7.2**	**4.27S**	**103.32E**	**0**	**3.5,3.4**		**¶17190634**
IDC	Error ellipse: s-maj=370.7km s-min=22.9km az=52.0.							
ISC	**I**	**23 09 05 34.9–.35**	**4.23S–.03**	**102.16E–.04**	**49–2**	**5.3b,4.6s**	**951**	**1-165**
BJI	I	23 09 05 27.7	4.90S	102.18E	51	5.3b,5.1b		**¶15959242**
MOS	I	23 09 05 32.2–1.3	4.03S	102.28E	33	5.5b,4.4s		
KLM	I	23 09 05 33.4	4.56S	101.87E	52	6.1s,5.2b		
DJA	I	23 09 05 35.6–.30	4S–3.0	102E–2.0	49–4	5.7,5.6		
IDC	I	23 09 05 35.5–1.1	4.10S	102.23E	52–8	5.0,4.7		
ISCJB	I	23 09 05 35.4–.35	4.23S–.02	102.20E–.02	68–2	5.1b,4.7		
GCMT	I	23 09 05 35.9–.10	4.40S	102.06E	50–0	5.4W,4.7		
NEIC	I	23 09 05 35.9–.53	4.25S	102.14E	56–4	5.4b,4.7		
ISC	Event type fe.							
MOS	Error ellipse: s-maj=8.7km s-min=4.4km az=112.0.							
IDC	Error ellipse: s-maj=13.0km s-min=6.3km az=53.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.9km s-min=2.8km az=44.4.							

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c167; s91,c161; Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.05±.02 $M_{\theta\theta}$-0.53±.02; $M_{\phi\phi}$-0.52±.02; $M_{r\theta}$0.65±.02; $M_{\theta\phi}$0.66±.01; $M_{\phi r}$-0.34±.02; Best double couple: NP1:ϕ_s125.00000°,δ62.00000°,λ79.00000°. NP2:ϕ_s326.00000°,δ30.00000°,λ109.00000°. Principal axes: T 1.2900,Plg71.0000°,Azm11.0000°; N 0.0960,Plg9.0000°,Azm130.0000° ; P -1.3880,Plg16.0000°,Azm222.0000° M_o1.33900×10^{17}

NEIC	Event type fe. Error ellipse: s-maj=5.9km s-min=3.6km az=48.0. Felt [IV] at Bengkulu and [II] at Painan.							
ISC	**I**	**26 15 10 56.2–1.1**	**3.80S–.10**	**101.70E–.09**	**35**	**3.4b**	**12**	**1-58**

IDC I 26 15 10 51.1–3.4 3.67S 101.72E 0 3.5,3.4 ¶17191045
ISCJB I 26 15 10 54.2–1.0 3.9S–.10 101.6E–.10 35 3.4b,3.4
DJA I 26 15 10 57.0–.70 4S–7.0 102E–7.0 63–19 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC I 27 14 34 44.6–3.9 2.50S 99.80E 0 3.8s,3.8
¶17191117
IDC Error ellipse: s-maj=168.6km s-min=21.2km az=55.0.
ISC I 28 05 44 31.9–.98 1.04S–.06 99.52E–.06 35 3.6b 25 1-56
IDC I 28 05 44 26.3–3.7 1.02S 99.59E 0 3.6,3.5 ¶17191175
ISCJB I 28 05 44 30.3–.60 1.04S–.06 99.44E–.06 33 3.6b,3.5
DJA I 28 05 44 32.2–1.1 1S–4.0 100E–4.0 32–13 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC I 28 05 49 18.8–1.0 1.13S–.06 99.49E–.06 35 3.5b 20 1-56
IDC I 28 05 49 14.1–3.6 0.94S 99.85E 0 3.5,3.4 ¶17191176
ISCJB I 28 05 49 18.5–.68 1.14S–.06 99.45E–.06 33 3.4b,3.4
DJA I 28 05 49 19.1–.80 1S–3.0 100E–3.0 15–9 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 11 38 00.9–1.3 5.24S–.09 102.53E–.10 44 3.6b 15 1-146
IDC I 29 11 37 56.4–3.2 4.80S 102.40E 0 3.6,3.5 ¶17191255
ISCJB I 29 11 37 58.1–1.1 5.26S–.08 102.41E–.06 44 3.6b,3.5
DJA I 29 11 37 59.0–1.4 5S–6.0 103E–6.0 13–7 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 29 14 58 10.0–1.7 5.87S–.09 103.44E–.09 60–13 4.4b,3.6s 57 1-145
IDC I 29 14 58 02.8–.79 5.67S 103.38E 0 4.4,4.3 ¶16136130
NEIC I 29 14 58 07.9–.45 5.65S 103.45E 35 4.4b,4.3
DJA I 29 14 58 07.6–.60 6S–3.0 103E–4.0 10 4.8b,4.6
ISCJB I 29 14 58 08.9–1.0 5.87S–.07 103.42E–.07 73–7 4.3b,4.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 30 09 46 02.3–1.5 2.82S–.06 99.85E–.08 18–6 4.4b 33 0-145
IDC I 30 09 45 59.2–1.2 2.89S 100.08E 0 4.1,4.1 ¶16022425
ISCJB I 30 09 46 02.2–1.1 2.87S–.05 99.81E–.07 33–9 4.2b,4.1
NEIC I 30 09 46 04.3–.61 2.88S 100.04E 35 4.6b,4.1
DJA I 30 09 46 04.2–.90 3S–5.0 100E–8.0 15–6 4.2,4.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 30 09 48 05.7–2.6 2.81S 100.24E 0 3.8,3.8
¶17191306
IDC Error ellipse: s-maj=94.2km s-min=23.3km az=56.0.
ISC I 30 11 07 35.8–.72 2.72S–.05 100.19E–.05 27 4.0b 19 0-145
IDC I 30 11 07 31.7–2.5 2.85S 100.20E 0 3.9,3.8b ¶17191318
DJA I 30 11 07 35.9–.80 3S–5.0 100E–6.0 30–3 3.9,3.9
ISC Event type ke.
ISC I 30 11 54 52.5–.96 2.79S–.07 100.10E–.07 25–7 4.0b 23 0-145
IDC I 30 11 54 48.7–2.2 2.86S 100.16E 0 3.9,3.8 ¶601990370
DJA I 30 11 54 52.6–.70 3S–5.0 100E–7.0 17–7 3.8,3.8
ISC Event type ke.
IDC I 30 12 01 26.0–3.3 2.71S 100.41E 0 3.8,3.7
¶17191324
IDC Error ellipse: s-maj=145.3km s-min=21.8km az=55.0.
ISC I 30 17 05 40.3–.61 2.91S–.04 99.98E–.04 22–4 4.8b,4.1s 260 0-148
IDC I 30 17 05 37.6–.60 2.79S 100.21E 0 4.7,4.6 ¶15981256
ISCJB I 30 17 05 39.7–.69 2.92S–.03 100.02E–.03 28–4 4.7b,4.1s
BJI I 30 17 05 40.7 2.90S 100.20E 37 5.0b,4.8b
MOS I 30 17 05 41.6–.96 2.64S 100.30E 33 5.1b,4.8b
DJA I 30 17 05 42.0–.40 3S–2.0 100E–3.0 19–4 5.1b,4.9
KLM I 30 17 05 42.4 2.80S 100.20E 10 5.5s,4.5b
NEIC I 30 17 05 42.8–.38 2.75S 100.30E 35 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=21.7km s-min=11.9km az=45.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.6km az=40.0.
MOS Error ellipse: s-maj=12.9km s-min=6.4km az=105.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=6.3km az=53.0.
ISC I 31 16 43 19.0–2.3 5.1S–.40 102.6E–.60 44 3.9b 9 24-145
IDC I 31 16 43 12.4–2.4 5.19S 102.43E 0 3.8,3.7 ¶17191422
ISC Event type ke.
IDC Error ellipse: s-maj=110.2km s-min=16.9km az=55.0.
ISC I 31 18 29 21.0–.90 3.51S–.06 101.55E–.05 65–7 4.7b 173 1-146
IDC I 31 18 29 12.9–.56 3.41S 101.56E 0 4.6,4.6L ¶15990280
MOS I 31 18 29 17.7–.97 3.07S 101.58E 33 4.8b,4.6L
BJI I 31 18 29 18.7 3.70S 101.68E 80 5.2b,4.9s
DJA I 31 18 29 20.7–.60 3S–3.0 102E–3.0 27–6 5.2b,4.8b
ISCJB I 31 18 29 20.6–.47 3.43S–.04 101.59E–.04 73–3 4.6b,4.8b
NEIC I 31 18 29 21.0–.87 3.45S 101.63E 63–7 4.8b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=11.3km az=43.0.
MOS Error ellipse: s-maj=14.5km s-min=6.9km az=106.1.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=3.7km az=44.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=5.5km az=47.0.
ISC II 01 02 01 46.8–1.3 3.8S–.10 100.7E–.10 10 3.9b 16 1-146
IDC II 01 02 01 44.8–1.9 3.95S 100.56E 0 3.9,3.8 ¶17191449
ISC Event type ke.
IDC Error ellipse: s-maj=72.0km s-min=19.9km az=54.0.
ISC II 01 14 32 45.1–1.3 1.96S–.06 99.25E–.09 35 3.3b 14 1-145
IDC II 01 14 32 42.1–7.9 2.28S 99.47E 0 3.6,3.5 ¶17191486
ISCJB II 01 14 32 43.2–1.1 1.97S–.06 99.17E–.10 35 3.4b,3.5
DJA II 01 14 32 44.6–1.1 2S–4.0 99E–5.0 29–15 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC II 03 13 46 31.1–18 4.82S 103.43E 164–170 3.3,3.0
¶17191595
IDC Error ellipse: s-maj=142.6km s-min=21.5km az=58.0.
DJA II 04 06 01 11.6–.40 1S–3.0 100E–3.0 24–6 3.6,3.6
¶602001041
ISC II 05 05 36 47.5–1.3 0.34S–.08 98.55E–.06 32 3.2b 15 0-51
IDC II 05 05 36 46.0–7.9 0.77S 98.64E 0 4.0s,4.0 ¶17191715
ISCJB II 05 05 36 48.1–.97 0.34S–.08 98.48E–.06 32 4.0s,3.2b
DJA II 05 05 36 48.6–.50 0S–4.0 99E–2.0 10 3.4,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC II 06 08 42 31.0–4.3 5.68S 102.57E 0 3.7,3.6
¶17191786
IDC Error ellipse: s-maj=180.7km s-min=22.9km az=53.0.
ISC II 06 14 25 54.5–.72 5.3S–.20 104.4E–.10 150 3.8b 31 0-144
ISCJB II 06 14 25 52.8–.41 5.2S–.10 104.48E–.09 150 3.8b ¶17191795
IDC II 06 14 25 55.2–2.4 4.78S 104.67E 138–21 4.0,3.7
DJA II 06 14 25 55.6–.50 5S–7.0 105E–6.0 100–7 4.6b,4.2
ISC Event type ke.
ISCJB Event type ke.
DJA II 10 14 52 09.0–1.6 2S–6.0 100E–16 51–25 4.3,4.3
¶602001429
ISC II 11 22 56 56.7–1.1 4.30S–.09 102.18E–.09 37 3.5b 18 1-145
IDC II 11 22 56 49.4–3.6 4.50S 101.88E 0 3.7,3.6 ¶17192093
DJA II 11 22 57 01.4–.60 4S–5.0 102E–4.0 16–6 3.5,3.5
ISC Event type ke.
ISC II 12 13 42 02.0–.83 3.42S–.06 101.69E–.05 50 3.9b 24 1-145
IDC II 12 13 41 53.2–2.3 3.46S 101.57E 0 3.9,3.8 ¶17192117
ISCJB II 12 13 42 03.4–.59 3.40S–.06 101.70E–.04 50 3.9b,3.8
DJA II 12 13 42 03.5–.60 3S–4.0 102E–3.0 30–6 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC II 12 17 15 03.3–.75 2.99S–.06 100.72E–.06 35 4.4b,3.4s 38 1-145
BJI II 12 17 14 52.6 3.93S 100.05E 11 5.0b,5.0s ¶16339725
IDC II 12 17 14 54.0–1.7 3.73S 100.14E 0 4.2,4.1b
NEIC II 12 17 14 55.3–.63 3.73S 100.21E 10 4.5b,4.1b
ISCJB II 12 17 14 59.1–.48 3.09S–.04 100.78E–.05 35 4.3b,3.4s
DJA II 12 17 15 00.2–.30 3S–2.0 101E–3.0 109–4 4.8b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 13 03 22 22.8–6.7 3.01S 100.37E 0 3.5,3.3
¶17192136
IDC Error ellipse: s-maj=246.8km s-min=30.6km az=61.0.
DJA II 13 20 57 01.3–1.1 5S–5.0 102E–13 13–20 4.2b,3.6
¶602001549
DJA II 14 00 37 15.4–.40 0S–3.0 100E–3.0 10 3.6,3.6
¶602001629
ISC II 14 08 06 29.5–1.8 3.3S–.20 101.2E–.20 10 3.3b 8 1-145
IDC II 14 08 06 28.1–6.5 3.31S 101.15E 0 3.5,3.4 ¶17192229
DJA II 14 08 06 29.7–2.5 4S–18 100E–22 187–11 3.9,3.9
ISC Event type ke.
DJA II 14 09 15 35.3–.30 0S–2.0 100E–2.0 10 3.8,3.8
¶602001614
ISC II 15 12 52 02.1–.84 5.80S–.08 103.83E–.07 42 3.9b 33 1-145
ISCJB II 15 12 52 01.5–.61 5.85S–.04 103.79E–.05 42 3.9b ¶17192303
DJA II 15 12 52 02.2–.70 6S–3.0 104E–4.0 17–6 4.5,4.5
IDC II 15 12 52 13.4–4.0 5.32S 104.27E 140–33 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.9km az=144.2.
IDC Error ellipse: s-maj=61.0km s-min=14.0km az=55.0.
IDC II 15 15 23 57.9–3.8 1.69S 101.40E 0 3.7,3.6
¶17192309
IDC Error ellipse: s-maj=162.2km s-min=22.3km az=56.0.
IDC II 16 04 58 32.9–4.5 3.26S 100.18E 0 3.5,3.4
¶17192340
IDC Error ellipse: s-maj=183.8km s-min=24.9km az=56.0.
IDC II 16 15 46 06.2–40 4.53S 104.57E 0 3.6,3.4
¶17192373
IDC Error ellipse: s-maj=706.5km s-min=212.1km az=137.0.
ISC II 18 01 24 37.9–1.8 4.2S–.30 106.1E–.10 100 4.2b 11 6-24
ISCJB II 18 01 24 36.8–1.5 4.2S–.20 106.1E–.10 100 4.1b ¶602001848
DJA II 18 01 24 42.1–1.3 4S–28 106E–8.0 118–14 5.4b,5.1
ISC Event type ke.
ISCJB Event type ke.
DJA II 19 00 46 39.3–.60 1S–4.0 100E–5.0 30–7 3.8,3.8
¶602001889
ISC II 21 12 37 36.4–1.7 0.0S–.20 98.7E–.30 48 4.0b 14 18-72
IDC II 21 12 37 29.5–1.5 0.04S 98.61E 0 4.1L,4.0 ¶17192635
ISCJB II 21 12 37 33.8–1.4 0.0S–.20 98.6E–.20 48 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
DJA II 22 02 46 33.4–.60 6S–13 104E–12 68–11 3.6,3.6
¶602001986
ISC II 24 02 00 40.4–.70 5.14S–.08 103.05E–.07 59 4.1b 32 1-145
IDC II 24 02 00 32.8–.96 5.05S 103.03E 0 4.2,4.1b ¶16342391
NEIC II 24 02 00 37.0–.72 5.31S 102.82E 35 4.3b,4.1b
ISCJB II 24 02 00 38.3–.55 5.24S–.06 102.95E–.05 59 4.1b,2.9s
DJA II 24 02 00 40.0–.80 5S–5.0 103E–3.0 20–10 4.2,4.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 24 13 30 40.7–.85 1.92S–.07 102.25E–.07 10 3.6b 12 1-58
ISCJB II 24 13 30 38.9–.75 1.84S–.06 102.38E–.08 10 3.6b ¶17192789
IDC II 24 13 30 40.6–5.3 1.66S 102.79E 0 3.7,3.5
DJA II 24 13 30 42.6–.30 3S–4.0 101E–3.0 10 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
DJA II 25 06 16 25.1–.70 6S–4.0 104E–4.0 28–6 3.5,3.5
¶602002152
ISC II 25 16 44 15.6–.78 0.69S–.06 99.68E–.08 54 4.2b 27 1-144
NEIC II 25 16 44 10.7–1.0 1.14S 99.88E 35 4.0b ¶16398922
ISCJB II 25 16 44 12.9–.65 0.80S–.07 99.49E–.06 54 4.1b
IDC II 25 16 44 18.5–3.6 0.78S 100.11E 90–30 4.1,3.8
DJA II 25 16 44 19.4–.40 1S–4.0 100E–5.0 61–10 4.4b,4.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 25 22 08 37.6–.45 3.04S–.04 101.03E–.04 48–3 5.0b,3.9s 451 1-150
BJI II 25 22 08 36.3 2.92S 101.05E 49 5.1b,4.9b ¶16158980
MOS II 25 22 08 36.7–.97 2.72S 101.29E 44 5.3b,4.9b
NEIC II 25 22 08 37.7–.65 3.05S 101.00E 50–5 5.1b,4.9b
IDC II 25 22 08 38.1–2.4 2.88S 101.14E 46–21 4.9,4.8L
DJA II 25 22 08 38.9–.40 3S–2.0 101E–2.0 30–4 5.2b,5.1
ISCJB II 25 22 08 38.3–.39 2.96S–.03 101.07E–.03 66–3 4.8b,5.1
KLM II 25 22 08 39.3 3.02S 100.99E 42 5.8s,5.1L
ISC Event type fe.
MOS Error ellipse: s-maj=11.4km s-min=5.0km az=110.7.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=4.5km az=53.0. Felt [III] at Mukomuko.
IDC Error ellipse: s-maj=16.5km s-min=10.4km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=6.2km s-min=3.4km az=42.1.
IDC II 26 04 16 31.3–4.5 2.69S 99.82E 0 3.3,3.2
¶17192879
IDC Error ellipse: s-maj=196.8km s-min=30.7km az=57.0.
IDC II 27 22 18 52.5–4.4 1.79S 100.53E 0 4.0s,4.0
¶17192968
IDC Error ellipse: s-maj=177.6km s-min=28.2km az=56.0.
ISC II 28 15 50 40.1–1.7 3.5S–.10 100.0E–.20 35 3.9b 12 1-146
IDC II 28 15 50 34.7–2.6 3.62S 99.91E 0 3.8,3.7 ¶17193006
ISCJB II 28 15 50 37.0–1.1 3.64S–.08 99.9E–.20 33 3.7b,3.7
DJA II 28 15 50 37.1–2.4 4S–12 100E–24 30–13 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 02 05 41 34.1–1.2 4.31S–.09 101.35E–.09 29 4.0b 20 1-146
IDC III 02 05 41 28.5–3.1 4.56S 100.94E 0 3.9,3.7 ¶17193110
DJA III 02 05 41 36.7–1.4 4S–11 102E–11 10 3.8,3.8
ISC Event type ke.
ISC III 03 04 30 16.4–.40 4.45S–.03 101.06E–.03 25–2 5.1b,4.4s 608 2-153
BJI III 03 04 30 08.0 5.06S 101.29E 15 5.2b,5.1b ¶16176480
KLM III 03 04 30 08.7 4.87S 100.37E 20 5.4s,5.1b
ISCJB III 03 04 30 13.8–.83 4.47S–.03 101.08E–.03 19–5 5.0b,4.5s
IDC III 03 04 30 13.1–.49 4.33S 101.20E 0 4.9,4.8
DJA III 03 04 30 14.3–.20 5S–2.0 101E–2.0 10 5.4b,5.2
NEIC III 03 04 30 15.8–1.8 4.42S 101.12E 20–10 5.1b,5.2
MOS III 03 04 30 16.4–1.1 4.29S 101.27E 33 5.3b,5.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.3km az=43.5.
IDC Error ellipse: s-maj=18.5km s-min=11.7km az=50.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=3.8km az=51.0.
MOS Error ellipse: s-maj=10.7km s-min=5.2km az=108.2.
ISC III 03 09 53 37.1–1.1 2.92S–.07 100.06E–.08 29–6 4.3b 38 0-145
IDC III 03 09 53 32.9–1.7 2.98S 100.06E 0 4.1,4.1 ¶17193179
ISCJB III 03 09 53 35.3–.78 2.98S–.05 100.00E–.06 33–6 4.1b,4.1
DJA III 03 09 53 36.6–.50 3S–3.0 100E–4.0 27–3 4.5b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC III 03 12 24 52.4–.98 2.73S–.10 100.32E–.07 10 3.7b 13 0-145
IDC III 03 12 24 50.9–2.1 2.78S 100.50E 0 3.7,3.7 ¶17193186
ISCJB III 03 12 24 50.2–.79 2.7S–.10 100.47E–.09 10 3.7b,3.7
DJA III 03 12 25 07.3–3.7 1S–19 100E–9.0 124–38 2.8,2.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 05 21 07.7–.63 5.15S–.05 102.34E–.05 43–5 4.4b,3.7s 177 1-149
IDC III 06 05 21 02.6–.90 4.97S 102.43E 0 4.4,4.3b ¶16196705
ISCJB III 06 05 21 05.5–.58 5.19S–.03 102.29E–.04 41–5 4.4b,3.7s
DJA III 06 05 21 06.7–.70 5S–2.0 102E–2.0 27–7 5.6b,5.1
BJI III 06 05 21 06.4 5.10S 102.40E 39 4.9b,4.6b

NEIC III 06 05 21 07.4–.38 5.12S 102.37E 38–3 4.5b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=13.4km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.7km az=138.3.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=2.9km az=53.0.
ISC III 07 12 32 04.3–.58 5.83S–.05 102.51E–.05 34–1 4.7b,3.4s 175 2-146
ISCJB III 07 12 32 02.4–.58 5.76S–.03 102.51E–.03 36–5 4.6b,3.5s ¶16245346
BJI III 07 12 32 03.7 5.80S 102.50E 42 5.0b,4.7b
NEIC III 07 12 32 04.4–.29 5.67S 102.54E 35 4.7b,4.7b
DJA III 07 12 32 04.7–.30 6S–2.0 103E–2.0 41–4 5.5b,5.0
IDC III 07 12 32 04.9–.88 5.62S 102.58E 36–5 4.6,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.5km az=135.9.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.4km az=47.0.
IDC Error ellipse: s-maj=29.6km s-min=11.3km az=55.0.
ISC III 10 14 14 36.8–.98 3.1S–.10 101.25E–.08 53 3.7b 12 1-59
IDC III 10 14 14 29.8–3.3 3.06S 101.29E 0 3.7,3.6 ¶17193634
ISCJB III 10 14 14 35.4–.81 3.2S–.10 101.18E–.08 53 3.6b,3.6
DJA III 10 14 14 36.4–.90 3S–9.0 101E–7.0 65–17 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 06 27 52.1–.54 5.31S–.07 102.98E–.07 59 4.3b 72 1-154
IDC III 12 06 27 44.9–.69 5.00S 103.06E 0 4.4,4.3 ¶16425341
ISCJB III 12 06 27 49.8–.41 5.37S–.05 102.89E–.04 59 4.4b,4.3
NEIC III 12 06 27 52.4–1.2 5.33S 102.97E 60–10 4.7b,4.3
DJA III 12 06 27 53.6–.30 5S–4.0 103E–3.0 67–6 5.4b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
DJA III 13 01 56 32.1–1.3 5S–10 103E–7.0 31–9 3.6,3.6
¶602003029
ISC III 20 16 16 40.6–.66 0.79S–.05 99.83E–.06 57 4.0b 38 1-144
ISCJB III 20 16 16 41.0–.54 0.76S–.05 99.79E–.06 57 4.1b ¶17197491
IDC III 20 16 16 41.2–1.1 0.84S 99.93E 74–7 4.0,3.8
KLM III 20 16 16 42.1 0.86S 99.84E 72 5.0s,4.3b
DJA III 20 16 16 43.2–.60 1S–3.0 100E–4.0 38–7 5.8b,5.4
ISC Event type ke.
ISCJB Event type ke.
ISC III 20 19 04 33.9–.83 3.15S–.09 100.2E–.10 27 4.2b 31 0-145
IDC III 20 19 04 30.3–.97 3.08S 100.27E 0 4.3L,4.1 ¶17197537
ISCJB III 20 19 04 31.4–.74 3.19S–.07 100.08E–.08 27 4.1s,4.0b
DJA III 20 19 04 31.9–.90 3S–5.0 100E–8.0 31–7 4.8b,4.5b
ISC Event type ke.
ISCJB Event type ke.
IDC III 21 16 11 47.9–4.5 2.94S 102.02E 0 3.3,3.3b
¶17197699
IDC Error ellipse: s-maj=200.3km s-min=29.5km az=58.0.
ISC III 22 08 38 38.9–.69 3.63S–.05 102.09E–.05 103–5 4.5b 135 1-150
BJI III 22 08 38 35.3 3.70S 102.00E 94 5.2b,4.7b ¶16341543
ISCJB III 22 08 38 37.6–.34 3.64S–.04 102.12E–.04 108–2 4.5b,4.7b
DJA III 22 08 38 38.7–.20 4S–4.0 102E–3.0 90–5 5.5b,5.0
NEIC III 22 08 38 38.1–.58 3.61S 102.14E 97–4 4.8b,5.0
IDC III 22 08 38 39.7–1.5 3.53S 102.23E 107–12 4.4,4.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=9.8km s-min=3.4km az=43.9.
NEIC Event type fe. Error ellipse: s-maj=10.2km s-min=3.9km az=51.0. Felt [II] at Kapahiang.
IDC Error ellipse: s-maj=18.5km s-min=9.2km az=62.0.
ISC III 22 11 00 25.9–1.0 2.14S–.09 102.2E–.10 200 18 1-143
IDC III 22 10 59 56.8–4.5 3.27S 101.58E 0 3.6,3.6 ¶17197992
ISCJB III 22 11 00 25.0–.53 2.09S–.09 102.2E–.10 200 3.1b,3.6
DJA III 22 11 00 26.1–.40 2S–7.0 102E–8.0 197–9 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 18 20 28.1–1.6 3.4S–.30 100.1E–.30 35 3.9b 12 9-146
IDC III 25 18 20 22.3–2.0 3.58S 99.72E 0 4.0,3.9 ¶16480881
NEIC III 25 18 20 24.2–.94 3.49S 99.93E 10 4.0b,3.9
ISCJB III 25 18 20 26.3–1.4 3.4S–.30 100.1E–.30 33 3.9b,3.9
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 28 13 23 32.6–8.7 2.50S 101.37E 0 3.7,3.5
¶17198955
IDC Error ellipse: s-maj=457.8km s-min=27.3km az=52.0.
ISC III 29 06 22 46.5–.56 5.25S–.05 102.45E–.05 43–4 4.8b,4.1s 282 1-152
DJA III 29 06 22 44.3–2.1 5S–6.0 102E–6.0 14–17 5.6b,5.2 ¶16375932
ISCJB III 29 06 22 45.2–.57 5.23S–.04 102.49E–.04 45–4 4.8b,4.0s
BJI III 29 06 22 45.2 5.20S 102.40E 39 5.1b,4.9b
KLM III 29 06 22 45.5 5.48S 102.46E 36 5.9s,5.0L
IDC III 29 06 22 46.1–3.1 5.00S 102.67E 31–20 4.7,4.6
NEIC III 29 06 22 46.6–.60 5.19S 102.48E 43–5 4.9b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.0km az=136.3.
IDC Error ellipse: s-maj=22.4km s-min=8.8km az=42.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.3km az=50.0.
DJA IV 01 06 39 09.9–.70 6S–5.0 104E–4.0 38–6 3.6,3.6
¶602003809
ISC IV 02 21 43 53.5–1.5 5.2S–.10 102.5E–.20 44 3.6b 11 1-61
IDC IV 02 21 43 47.2–4.1 5.21S 102.38E 0 3.6,3.5 ¶17199577
ISCJB IV 02 21 43 50.8–1.2 5.3S–.10 102.3E–.10 44 3.6b,3.5
DJA IV 02 21 43 53.7–2.5 5S–11 103E–22 22–19 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 01 24 24.9–.76 2.6S–.10 102.3E–.10 187 3.4b 15 1-75
IDC IV 03 01 24 03.7–1.6 2.72S 101.88E 0 3.7,3.5 ¶602945403
ISCJB IV 03 01 24 24.1–.55 2.5S–.10 102.4E–.10 187 3.3b,3.5
DJA IV 03 01 24 25.4–.60 3S–12 102E–10 176–8 4.3b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 08 57 59.4–6.0 2.46S 101.80E 0 3.5,3.3
¶17199636
IDC Error ellipse: s-maj=306.0km s-min=23.0km az=53.0.
ISC IV 04 03 45 57.5–.63 4.47S–.08 101.23E–.07 29 4.5b,3.7s 67 2-148
IDC IV 04 03 45 53.7–.82 4.40S 101.29E 0 4.7L,4.5 ¶16506195
ISCJB IV 04 03 45 55.3–.54 4.53S–.06 101.13E–.07 29 4.5b,3.7s
BJI IV 04 03 45 56.0 4.20S 100.60E 10 4.8b,4.8b
NEIC IV 04 03 45 56.2–3.0 4.47S 101.23E 18–17 4.8b,4.8b
DJA IV 04 03 45 57.1–.80 5S–11 101E–9.0 69–25 4.9b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 05 13 57 28.1–1.2 4.62S–.05 101.19E–.06 30–7 4.8b,4.2s 217 2-149
BJI IV 05 13 57 21.9 5.06S 101.39E 25 4.9b,4.9b ¶16411029
IDC IV 05 13 57 24.7–.81 4.47S 101.25E 0 4.6,4.5
ISCJB IV 05 13 57 25.9–1.0 4.61S–.04 101.14E–.04 27–7 4.7b,4.1s
NEIC IV 05 13 57 27.4–2.5 4.43S 101.29E 18–14 4.9b,4.1s
DJA IV 05 13 57 28.6–.40 5S–3.0 101E–3.0 43–30 5.4b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 05 14 06 39.2–1.9 4.6S–.30 101.1E–.40 29 3.8b 11 23-146
IDC IV 05 14 06 34.9–1.8 4.62S 101.01E 0 3.8,3.7 ¶17199899
ISCJB IV 05 14 06 36.9–1.5 4.6S–.20 101.0E–.40 29 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 16 38 22.6–1.8 5.76S–.07 103.35E–.07 29–12 3.6b 25 1-145
DJA IV 11 16 38 24.2–.70 6S–3.0 103E–3.0 10 4.2,4.2 ¶602003951
IDC IV 11 16 38 44.1–3.7 4.33S 105.26E 181–27 3.5,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=173.7km s-min=14.3km az=54.0.
ISC IV 11 23 35 43.7–1.0 3.1S–.10 101.34E–.09 46 3.6b 12 1-62
IDC IV 11 23 35 35.9–5.7 3.11S 101.17E 0 3.5,3.4 ¶17200705
ISCJB IV 11 23 35 43.2–.80 3.0S–.10 101.3E–.10 46 3.5b,3.4
DJA IV 11 23 35 45.1–.50 3S–6.0 101E–5.0 46–35 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
DJA IV 12 04 00 54.7–.60 4S–8.0 102E–6.0 159–7 3.6,3.6
¶602003958
IDC IV 14 00 09 54.7–3.6 2.15S 100.07E 0 3.8,3.7
¶17200966
IDC Error ellipse: s-maj=162.2km s-min=26.2km az=58.0.
DJA IV 14 22 28 58.4–.40 6S–3.0 105E–3.0 10 3.7,3.7
¶602003990
ISC IV 14 23 45 22.6–.46 1.87S–.04 100.36E–.04 67–3 4.9b 320 1-159
IDC IV 14 23 45 13.8–.46 1.88S 100.31E 0 4.7,4.7b ¶16436918
MOS IV 14 23 45 18.3–1.1 1.72S 100.59E 37 5.2b,4.3s
BJI IV 14 23 45 19.9 2.02S 100.46E 67 4.9b,4.9b
ISCJB IV 14 23 45 21.2–.34 1.86S–.02 100.41E–.03 67–3 4.8b,4.9b
NEIC IV 14 23 45 21.9–.66 1.83S 100.48E 59–6 4.9b,4.9b
DJA IV 14 23 45 22.4–.50 2S–2.0 100E–2.0 36–5 5.1b,5.0
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Padangpanjang and Painan. Also felt at Padang.
ISC IV 15 05 04 54.6–2.1 4.4S–.10 102.0E–.10 66–16 4.0b 20 1-145
IDC IV 15 05 04 46.0–3.5 4.46S 101.12E 0 3.9,3.8 ¶17201089
ISCJB IV 15 05 04 54.1–1.0 4.38S–.08 102.05E–.08 79–9 3.8b,3.8
DJA IV 15 05 04 55.6–.90 4S–4.0 102E–3.0 37–10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
DJA IV 15 14 40 50.4–.60 5S–4.0 103E–3.0 45–12 3.6,3.6
¶602003998
ISC IV 15 19 43 40.9–.63 3.16S–.06 100.19E–.06 27 4.5b 104 0-145
IDC IV 15 19 43 37.2–.96 3.13S 100.10E 0 4.3,4.3b ¶16442655
ISCJB IV 15 19 43 38.7–.41 3.20S–.04 100.15E–.04 27 4.4b,3.6s
NEIC IV 15 19 43 38.5–.42 3.16S 100.18E 10 4.5b,3.6s
BJI IV 15 19 43 38.3 3.51S 100.36E 37 4.9b,4.7b
DJA IV 15 19 43 38.7–.50 3S–3.0 100E–3.0 16–5 4.9b,4.5
KLM IV 15 19 43 39.7 3.15S 100.04E 31 5.0s,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=34.6km s-min=13.2km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=3.4km az=39.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=5.0km az=50.0.
ISC IV 17 15 46 08.2–1.0 2.93S–.08 100.14E–.10 27 3.4b 16 0-145
IDC IV 17 15 46 05.7–3.6 2.78S 100.21E 0 3.6,3.5 ¶17201334
ISCJB IV 17 15 46 06.7–.85 2.95S–.06 100.13E–.06 27 3.4b,3.5
DJA IV 17 15 46 06.6–.60 3S–4.0 100E–7.0 15–7 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 19 07 40 57.6–2.7 3.49S 100.32E 31–5 3.7,3.6
¶17201482
IDC Error ellipse: s-maj=119.0km s-min=16.5km az=56.0.
DJA IV 19 14 17 30.0–.70 5S–4.0 103E–4.0 22–6 3.5,3.5
¶602004043
ISC IV 20 16 09 01.8–2.0 5.21S–.07 102.06E–.07 15–11 4.0b 27 1-146
IDC IV 20 16 09 01.1–2.3 4.81S 102.41E 0 4.0,3.9 ¶16536023
NEIC IV 20 16 09 04.7–1.1 5.08S 102.01E 35 4.1b,3.9
DJA IV 20 16 09 05.8–.90 5S–4.0 102E–5.0 14–7 4.0,4.0
ISC Event type se.
NEIC Event type se.
ISC IV 21 07 24 22.9–.94 1.42S–.05 99.15E–.07 25 3.5b 18 1-145
IDC IV 21 07 24 20.0–6.7 1.14S 99.72E 0 3.6,3.5b ¶17201690
ISCJB IV 21 07 24 25.0–1.3 1.38S–.06 99.22E–.09 25 3.5b,3.5b
DJA IV 21 07 24 28.4–.90 1S–3.0 99E–4.0 29–11 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC IV 23 08 54 01.0–.36 2.80S–.04 102.60E–.05 211–3 4.5b 268 0-147
BJI IV 23 08 53 54.0 3.57S 102.42E 211 4.6b,4.6b ¶16452558
MOS IV 23 08 53 58.2–1.2 2.71S 102.66E 197 4.7b,4.6b
ISCJB IV 23 08 54 00.8–.26 2.80S–.03 102.66E–.03 223–2 4.4b,4.6b
NEIC IV 23 08 54 01.2–.65 2.80S 102.65E 212–6 4.5b,4.6b
IDC IV 23 08 54 01.6–.51 2.70S 102.72E 212–4 4.7,4.2
DJA IV 23 08 54 02.5–.20 3S–3.0 103E–3.0 208–3 5.3b,5.1
KLM IV 23 08 54 06.2 2.39S 102.84E 211 4.7b,5.1
ISC Event type se.
MOS Error ellipse: s-maj=12.0km s-min=5.9km az=115.9.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.3km az=136.3.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.1km az=46.0.
IDC Error ellipse: s-maj=13.1km s-min=6.2km az=45.0.
IDC IV 25 04 29 50.4–5.6 2.86S 102.20E 0 3.5,3.3
¶17202015
IDC Error ellipse: s-maj=308.9km s-min=27.1km az=52.0.
IDC IV 27 23 55 13.6–1.5 4.85S 101.22E 0 3.6,3.5
¶17202266
IDC Error ellipse: s-maj=62.6km s-min=19.6km az=52.0.
IDC IV 29 02 46 15.1–4.3 4.42S 103.97E 0 3.9,3.7
¶17202341
IDC Error ellipse: s-maj=317.0km s-min=77.8km az=69.0.
ISC IV 29 20 24 35.2–.55 3.51S–.04 100.63E–.05 28–3 5.1b,4.6s 529 1-150
BJI IV 29 20 24 31.9 3.78S 100.76E 33 5.2b,5.1b ¶16485194
ISCJB IV 29 20 24 33.9–.20 3.46S–.03 100.63E–.02 28 5.1b,4.7s
IDC IV 29 20 24 34.8–2.5 3.47S 100.65E 22–14 5.0,4.9b
NEIC IV 29 20 24 34.4–1.6 3.53S 100.63E 25–10 5.2b,4.9b
GCMT IV 29 20 24 34.4–.30 3.64S 100.33E 15 5.3W,4.9b
MOS IV 29 20 24 36.7–1.1 3.31S 100.73E 47 5.3b,4.6s
KLM IV 29 20 24 37.8 3.49S 100.58E 50 6.0s,5.2L
DJA IV 29 20 24 38.3–.70 3S–3.0 101E–3.0 34–6 5.4b,5.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c63; s51,c66;Duration: 1$\hat{s}$0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.33±.02 $M_{\theta\theta}$-0.16±.01; $M_{\phi\phi}$-0.17±.02; $M_{r\theta}$0.63±.04; $M_{\theta\phi}$0.11±.01; $M_{\phi r}$-0.78±.04; Best double couple: NP1:ϕ_s141.00000°,δ82.00000°,λ91.00000°. NP2:ϕ_s316.00000°,δ8.00000°,λ86.00000°. Principal axes: T 1.0730,Plg53.0000°,Azm52.0000°; N -0.0570,Plg1.0000°,Azm321.0000° ; P -1.0180,Plg37.0000°,Azm230.0000° $M_0$1.04600×10^{17}
IDC IV 30 07 27 58.9–3.4 2.88S 101.22E 0 3.8,3.6b
¶17202446
IDC Error ellipse: s-maj=145.8km s-min=23.4km az=56.0.
ISC IV 30 18 47 31.2–1.0 4.5S–.10 102.1E–.10 37 3.9b 14 1-145
IDC IV 30 18 47 25.6–2.1 4.45S 102.13E 0 3.8,3.7 ¶17202471
ISCJB IV 30 18 47 29.1–.91 4.54S–.10 102.00E–.08 37 3.7b,3.7
DJA IV 30 18 47 32.7–.90 4S–6.0 102E–6.0 33–9 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 02 08 14 40.0–2.5 5.7S–.10 103.9E–.10 10 3.2b 7 1-57
IDC V 02 08 13 52.0–38 0.57S 101.64E 0 4.1s,4.1 ¶602004165
DJA V 02 08 14 41.4–.70 6S–4.0 104E–4.0 10 5.3b,4.3
ISC Event type ke.
ISC V 02 23 25 38.0–.72 5.59S–.05 102.61E–.05 45–5 4.7b,3.7s 204 1-148
IDC V 02 23 25 33.0–.79 5.35S 102.80E 0 4.5,4.4 ¶16489796
DJA V 02 23 25 35.2–.40 6S–2.0 103E–3.0 10 5.9b,5.4
ISCJB V 02 23 25 36.4–.61 5.61S–.03 102.62E–.04 45–5 4.6b,3.8s
MOS V 02 23 25 36.6–1.0 5.25S 102.91E 33 4.9b,3.8s
NEIC V 02 23 25 38.0–.72 5.53S 102.68E 38–6 4.7b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=29.2km s-min=12.6km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.0km az=138.0.
MOS Error ellipse: s-maj=13.9km s-min=6.4km az=114.1.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.7km az=49.0.
DJA V 04 08 51 19.2–1.2 5S–9.0 103E–7.0 40–9 3.6,3.6
¶602004187
ISC V 04 17 38 37.8–.37 4.95S–.03 101.78E–.03 33–1 5.4b,5.3s 1071 1-176
BJI V 04 17 38 30.7 5.60S 101.83E 30 5.7s,5.5 ¶16493790

IDC V 04 17 38 33.0–.36 4.92S 101.85E 0 5.1s,5.1b
ISCJB V 04 17 38 35.9–.57 4.92S–.02 101.79E–.02 29–3 5.3b,5.2s
DJA V 04 17 38 35.6–.60 5S–2.0 102E–2.0 15–5 5.9,5.9b
NEIC V 04 17 38 37.6–.16 4.89S 101.85E 26 5.6W,5.4W
GCMT V 04 17 38 37.6–.10 5.22S 101.64E 24 5.5W,5.4W
NEIC V 04 17 38 37.0–.00 4.95S 101.60E 27 5.5W,5.4W
MOS V 04 17 38 37.1–1.0 4.77S 101.94E 33 5.5b,5.1s
KLM V 04 17 38 38.5 4.87S 101.57E 45 6.4s,5.8L
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=8.4km az=45.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.6km az=41.9.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=224.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}1.48 $M_{\theta\theta}$0.08 $M_{\phi\phi}$-1.55 $M_{r\theta}$0.33 $M_{\theta\phi}$0.38 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s159.00000°,δ55.00000°,λ80.00000°. NP2: ϕ_s357.00000°,δ37.00000°,λ104.00000°. Principal axes: T 1.5900,Plg77.0000°,Azm33.0000° ; N 0.1300,Plg9.0000°,Azm165.0000°; P -1.7200,Plg9.0000°,Azm257.0000° M_o1.70000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s310.00000°,δ15.00000°,λ90.00000°. NP2:ϕ_s130.00000°,δ75.00000°,λ90.00000°. Principal axes: T Plg60.0000°,Azm40.0000°; N Plg0.0000°,Azm0.0000°; P Plg30.0000° ,Azm220.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s105,c185; s98,c158; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}1.22±.03 $M_{\theta\theta}$-0.75±.02; $M_{\phi\phi}$-0.47±.02; $M_{r\theta}$1.18±.03; $M_{\theta\phi}$0.63±.01; $M_{\phi r}$-1.04±.03; Best double couple: NP1:ϕ_s131.00000°,δ71.00000° ,λ91.00000°. NP2:ϕ_s307.00000°,δ19.00000°,λ86.00000°. Principal axes: T 1.9840,Plg64.0000°,Azm43.0000°; N 0.0360,Plg1.0000°,Azm310.0000° ; P -2.0230,Plg26.0000°,Azm220.0000° M_o2.00300×10^{17}
NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}1.00 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$-0.50 $M_{r\theta}$2.10 $M_{\theta\phi}$0.80 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s121.00000° ,δ77.00000°,λ83.00000°. NP2:ϕ_s329.00000°,δ14.00000°,λ116.00000°. Principal axes: T 2.6000,Plg57.0000°,Azm23.0000°; N 0.2000,Plg6.0000°,Azm123.0000° ; P -2.8000,Plg32.0000°,Azm217.0000° M_o3.00000×10^{17}
MOS Error ellipse: s-maj=8.0km s-min=4.3km az=110.7.
IDC V 04 21 12 54.0–2.5 4.86S 101.79E 0 3.8,3.8 ¶17202797
IDC Error ellipse: s-maj=83.7km s-min=21.5km az=57.0.
ISC V 05 15 20 57.6–.75 4.37S–.09 102.07E–.09 37 4.2b 52 1-145
IDC V 05 15 20 52.3–1.1 4.25S 102.16E 0 4.2,4.2 **¶16708925**
ISCJB V 05 15 20 55.3–.49 4.44S–.06 101.98E–.05 37 4.2b,4.2
NEIC V 05 15 20 58.0–.44 4.25S 102.16E 35 4.3b,4.2
DJA V 05 15 21 00.2–.60 4S–5.0 102E–5.0 30–5 4.2,4.2b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bengkulu.
DJA V 07 19 12 09.9–1.5 1S–5.0 98E–8.0 14–15 3.6,3.6 ¶602004215
ISC V 12 21 07 19.8–.67 1.71S–.08 99.70E–.08 30 4.3b 35 1-146
IDC V 12 21 07 14.6–1.0 1.84S 99.72E 0 4.2,4.2b **¶16577283**
NEIC V 12 21 07 20.6–1.9 1.89S 99.67E 45–13 4.4b,4.2b
DJA V 12 21 07 22.2–.70 2S–3.0 100E–5.0 15–8 5.0b,4.4b
ISC Event type se.
NEIC Event type se.
ISC V 16 01 25 22.8–.78 2.73S–.09 100.0E–.10 21–5 4.3b,3.2s 52 0-147
IDC V 16 01 25 19.9–.80 2.65S 99.97E 0 4.4,4.3 **¶16580989**
NEIC V 16 01 25 21.3–3.4 2.71S 99.93E 10–20 4.5b,4.3
DJA V 16 01 25 21.6–.60 3S–3.0 100E–4.0 14–4 5.0b,4.5
ISC Event type se.
NEIC Event type se.
ISC V 17 07 41 09.8–1.6 4.2S–.10 101.2E–.10 34 3.7b 12 1-146
IDC V 17 07 41 05.7–8.4 4.14S 101.25E 0 3.7,3.5 **¶17203800**
DJA V 17 07 41 22.5–.70 4S–6.0 102E–5.0 36–8 5.4b,5.0b
ISC Event type ke.
ISC V 19 19 13 28.2–.90 0.61S–.05 99.60E–.07 54 4.2b 14 1-56
IDC V 19 19 13 18.9–3.1 0.78S 99.47E 0 4.1,4.1s **¶17203988**
ISCJB V 19 19 13 27.7–.82 0.55S–.05 99.46E–.08 54 4.1s,4.0b
DJA V 19 19 13 29.7–1.2 1S–3.0 100E–7.0 32–14 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 05 46 42.1–.58 2.68S–.08 103.14E–.09 250 3.6b 29 2-146
ISCJB V 20 05 46 40.6–.42 2.67S–.06 103.17E–.07 250 3.7b **¶17204016**
IDC V 20 05 46 43.0–5.1 2.70S 102.99E 258–49 4.1,3.5
DJA V 20 05 46 44.5–.50 2S–3.0 103E–4.0 10 4.5b,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC V 22 05 43 41.5–5.9 0.37S 99.79E 0 3.7,3.4 ¶17204192
IDC Error ellipse: s-maj=299.6km s-min=86.2km az=48.0.
ISC V 22 07 23 17.7–.90 5.49S–.09 102.78E–.09 38 4.0b 24 1-146
ISCJB V 22 07 23 14.6–.74 5.63S–.07 102.61E–.06 38 4.0b **¶17204204**
DJA V 22 07 23 16.0–.70 4S–10 104E–9.0 153–10 5.5b,5.1b
IDC V 22 07 23 20.9–1.3 5.47S 102.70E 75–7 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.0km az=31.8.
IDC Error ellipse: s-maj=51.8km s-min=15.1km az=51.0.
ISC V 24 08 11 09.7–.35 5.39S–.04 102.39E–.05 34 4.9b,3.9s 410 1-152
BJI V 24 08 11 02.8 6.07S 102.48E 39 5.0b,4.9b **¶16536854**
IDC V 24 08 11 06.0–.73 5.07S 102.58E 0 4.8,4.7
ISCJB V 24 08 11 08.5–.24 5.31S–.03 102.44E–.03 34 4.8b,3.8s
DJA V 24 08 11 09.6–1.1 5S–4.0 102E–4.0 19–12 5.6b,5.2b
NEIC V 24 08 11 11.0–.64 5.27S 102.42E 40–5 5.0b,5.2b
MOS V 24 08 11 10.6–.91 4.97S 102.70E 41 5.1b,5.2b
KLM V 24 08 11 13.3 5.41S 102.53E 50 5.5s,4.9b
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=11.9km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.2km az=42.7.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.0km az=47.0.
MOS Error ellipse: s-maj=12.6km s-min=5.7km az=111.7.
ISC V 24 23 29 34.5–.35 4.31S–.04 102.13E–.04 49–2 4.9b,3.6s 688 1-161
MOS V 24 23 29 32.6–1.1 4.06S 102.37E 43 5.2b,3.6s **¶16539619**
DJA V 24 23 29 34.7–.40 4S–2.0 102E–2.0 32–4 5.5b,5.3
IDC V 24 23 29 34.2–.42 4.11S 102.35E 44–3 4.8,4.6
KLM V 24 23 29 35.2 4.51S 101.88E 75 6.2s,5.2L
NEIC V 24 23 29 35.2–.41 4.18S 102.27E 54–3 5.0b,5.2L
ISCJB V 24 23 29 35.4–.42 4.21S–.03 102.27E–.03 70–3 4.8b,5.2L
ISC Event type fe.
NEIC Event type fe. Felt [III] at Kapahiang. Also felt at Bengkulu.
ISCJB Event type fe.
ISC V 26 20 43 36.5–1.9 4.4S–.10 102.2E–.10 69–16 3.3b 15 1-145
IDC V 26 20 43 31.0–5.3 3.24S 103.14E 0 3.5,3.3 **¶17204531**
ISCJB V 26 20 43 36.5–.79 4.37S–.09 102.26E–.07 74–13 3.3b,3.3
DJA V 26 20 43 36.1–.60 4S–3.0 102E–3.0 25–5 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 28 17 07 41.9–.29 5.73S–.03 103.46E–.03 43–2 6.0b,5.4s 1991 1-178
BJI V 28 17 07 33.8 6.30S 103.47E 27 5.8b,5.7b **¶16551362**
NEIC V 28 17 07 36.0–.00 5.86S 103.39E 15 5.8b,5.7b
MOS V 28 17 07 40.1–.93 5.62S 103.62E 33 6.2b,5.2s
GCMT V 28 17 07 40.2–.10 5.98S 103.31E 26 5.7W,5.2s
ISCJB V 28 17 07 41.8–.32 5.70S–.02 103.53E–.02 48–2 6.0b,5.4s
NEIC V 28 17 07 41.1–.09 5.70S 103.49E 32 6.1b,5.7W
DJA V 28 17 07 43.6–.30 6S–2.0 103E–2.0 42–3 6.3b,6.2
KLM V 28 17 07 43.3 5.86S 103.10E 88 6.4s,5.7b
IDC V 28 17 07 43.9–.85 5.65S 103.54E 52–6 5.7,5.5
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s8 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-0.90 $M_{\phi\phi}$1.00 $M_{r\theta}$3.80 $M_{\theta\phi}$1.20 $M_{\phi r}$-3.00 Best double couple: NP1:ϕ_s131.00000° ,δ86.00000°,λ99.00000°. NP2:ϕ_s240.00000°,δ9.00000°,λ19.00000°. Principal axes: T 4.2000,Plg47.0000°,Azm51.0000°; N 1.5000,Plg9.0000°,Azm310.0000° ; P -5.7000,Plg41.0000°,Azm212.0000° M_o5.00000×10^{17}
MOS Error ellipse: s-maj=6.9km s-min=4.0km az=115.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s106,c202; s102,c224;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.41±.04 $M_{\theta\theta}$-0.64±.03; $M_{\phi\phi}$0.22±.04; $M_{r\theta}$2.96±.07; $M_{\theta\phi}$2.14±.03; $M_{\phi r}$-2.20±.08; Best double couple: NP1: ϕ_s123.00000°,δ80.00000°,λ84.00000°. NP2:ϕ_s335.00000°,δ12.00000°,λ121.00000°. Principal axes: T 2.9730,Plg55.0000°,Azm25.0000°; N 1.9590,Plg6.0000°,Azm124.0000° ; P -4.9320,Plg35.0000°,Azm218.0000° M_o3.95300×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.1km az=39.9.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.5km az=219.0. Felt [IV] at Krui and Liwa and [II] at Kapahiang and Kotabumi. Felt at Jakarta, Java. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s33 Moment tensor: Scale 10^{17}Nm; M_{rr}0.89 $M_{\theta\theta}$0.45 $M_{\phi\phi}$-1.34 $M_{r\theta}$1.09 $M_{\theta\phi}$0.52 $M_{\phi r}$-1.30 Best double couple: NP1: ϕ_s141.00000°,δ75.00000°,λ69.00000°. NP2:ϕ_s17.00000°,δ25.00000°,λ143.00000°. Principal axes: T 1.9600,Plg55.0000°,Azm25.0000°; N 0.3100,Plg20.0000°,Azm147.0000° ; P -2.2700,Plg27.0000°,Azm248.0000° M_o2.10000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s325.00000°,δ2.00000°,λ90.00000°. NP2: ϕ_s145.00000°,δ88.00000°,λ90.00000°. Principal axes: T Plg47.0000°,Azm55.0000° ; N Plg0.0000°,Azm0.0000°; P Plg43.0000°,Azm235.0000°
IDC Error ellipse: s-maj=9.4km s-min=6.1km az=51.0.
ISC V 30 23 33 31.6–1.4 1.58S–.04 101.08E–.04 6–8 4.2b 67 1-145
ISCJB V 30 23 33 31.8–.97 1.66S–.04 101.09E–.04 19–6 4.2b,2.9s **¶16702351**
IDC V 30 23 33 31.1–.87 1.66S 101.07E 0 3.9,3.8
DJA V 30 23 33 33.9–.30 2S–3.0 101E–2.0 10 4.8b,4.7b
NEIC V 30 23 33 35.4–.60 1.65S 101.19E 35 4.7b,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.3km s-min=5.3km az=39.6.
IDC Error ellipse: s-maj=47.1km s-min=17.9km az=54.0.
NEIC Event type fe. Error ellipse: s-maj=18.1km s-min=11.2km az=52.0. Felt [III] at Muaralabuh and Solok; [II] at Padang.
IDC V 31 15 22 38.8–5.3 3.26S 102.86E 0 3.7,3.6 ¶17204832
IDC Error ellipse: s-maj=294.9km s-min=28.9km az=51.0.
ISC VI 01 06 13 57.0–.38 4.97S–.05 102.76E–.06 59 4.5b,3.6s 320 1-152
ISCJB VI 01 06 13 55.1–.30 5.02S–.04 102.76E–.04 59 4.5b,3.5s **¶16577366**
DJA VI 01 06 13 55.3–.70 5S–3.0 103E–3.0 15–7 5.6b,5.1
IDC VI 01 06 13 58.5–2.2 4.82S 102.97E 68–19 4.4,4.2
NEIC VI 01 06 13 58.2–.82 4.89S 102.81E 69–6 4.6b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.6km s-min=3.6km az=40.9.
IDC Error ellipse: s-maj=16.2km s-min=9.5km az=53.0.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=5.4km az=223.0. Felt [II] at Kapahiang.
ISC VI 04 05 47 54.1–.41 3.60S–.05 101.46E–.05 50 4.5b,3.0s 108 2-150
ISCJB VI 04 05 47 52.3–.33 3.67S–.04 101.40E–.05 50 4.6b,3.1s **¶16640736**
NEIC VI 04 05 47 55.0–.53 3.57S 101.52E 59–4 4.7b,3.1s
BJI VI 04 05 47 54.0 3.60S 101.50E 59 4.9b,4.8b
IDC VI 04 05 47 55.9–7.1 3.49S 101.54E 65–63 4.4,4.2
DJA VI 04 05 47 55.0–1.5 4S–4.0 102E–4.0 23–19 5.2b,4.8b
KLM VI 04 05 47 58.6 3.39S 101.68E 45 5.5s,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=3.7km az=140.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=3.9km az=54.0.
IDC Error ellipse: s-maj=33.8km s-min=12.8km az=55.0.
ISC VI 05 08 19 26.5–.99 0.79S–.06 99.88E–.07 57 3.5b 13 1-144
IDC VI 05 08 19 16.2–2.9 1.03S 99.72E 0 3.8,3.6 **¶17205299**
ISCJB VI 05 08 19 28.4–.80 0.77S–.05 99.87E–.07 57 3.5b,3.6
DJA VI 05 08 19 28.9–.70 1S–3.0 100E–8.0 39–10 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 05 09 41 01.4–.79 2.73S–.05 101.79E–.05 113–6 4.4b 159 1-149
KLM VI 05 09 40 57.7 3.06S 101.89E 81 4.6b,4.1L **¶16640739**
BJI VI 05 09 40 58.9 3.14S 101.75E 141 4.6b,4.6b
ISCJB VI 05 09 41 00.4–.37 2.69S–.04 101.81E–.04 119–3 4.5b,4.6b
IDC VI 05 09 41 01.4–1.7 2.76S 101.83E 114–14 4.4,4.1
NEIC VI 05 09 41 01.5–.59 2.72S 101.79E 113–5 4.7b,4.1
DJA VI 05 09 41 02.0–.30 3S–3.0 102E–4.0 81–9 4.5b,4.4
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bengkulu.
ISC VI 05 14 09 06.1–.98 5.27S–.10 102.54E–.10 44 3.5b 14 1-146
IDC VI 05 14 09 00.9–2.4 5.02S 102.76E 0 3.4,3.2 **¶17205330**
ISCJB VI 05 14 09 03.6–1.0 5.4S–.10 102.4E–.10 44 3.3b,3.2
DJA VI 05 14 09 04.0–.70 5S–6.0 103E–6.0 10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 07 11 28 15.6–2.6 3.99S–.09 103.5E–.20 10 3.7b 11 3-45
IDC VI 07 11 28 12.9–25 4.00S 103.32E 0 4.0,3.8 **¶17205479**
DJA VI 07 11 29 09.6–1.3 4S–5.0 107E–9.0 105–22 5.7b,5.2
ISC Event type ke.
ISC VI 08 08 48 49.9–.42 5.26S–.06 102.41E–.06 44 4.7b,3.6s 230 1-152
IDC VI 08 08 48 44.5–.73 5.05S 102.56E 0 4.6,4.5b **¶16575946**
ISCJB VI 08 08 48 47.8–.30 5.32S–.04 102.39E–.03 44 4.6b,3.6s
DJA VI 08 08 48 48.3–1.1 5S–4.0 102E–4.0 19–11 5.2b,4.9b
NEIC VI 08 08 48 49.4–.75 5.21S 102.41E 38–6 4.7b,4.9b
KLM VI 08 08 48 52.3 5.32S 102.68E 39 5.8s,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=11.2km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=41.6.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=4.8km az=50.0.
IDC VI 10 17 31 39.4–7.4 3.37S 103.62E 0 3.4,3.2 ¶17205722
IDC Error ellipse: s-maj=411.6km s-min=27.1km az=52.0.
ISC VI 11 14 21 07.3–.58 2.71S–.05 100.11E–.06 26–3 4.4b,3.5s 53 0-145
DJA VI 11 14 21 03.6–.80 3S–5.0 100E–6.0 18–6 4.6,4.5 **¶16856961**
BJI VI 11 14 21 03.8 2.80S 100.28E 18 4.8b,4.6b
ISCJB VI 11 14 21 05.6–.86 2.78S–.05 100.11E–.07 30–6 4.3b,3.5s
IDC VI 11 14 21 07.8–.98 2.77S 100.20E 26–3 4.2,4.2
NEIC VI 11 14 21 08.2–.67 2.76S 100.14E 35 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=6.5km az=150.2.
IDC Error ellipse: s-maj=31.1km s-min=12.9km az=58.0.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=7.5km az=56.0.
IDC VI 11 21 24 34.2–9.1 3.86S 101.71E 0 3.6,3.6 ¶17205797
IDC Error ellipse: s-maj=468.3km s-min=27.9km az=54.0.
ISC VI 11 21 55 32.1–.95 0.25S–.07 98.62E–.07 32 4.1b 25 1-59
IDC VI 11 21 55 26.5–2.0 0.51S 98.21E 0 4.2,4.2L **¶16713626**
ISCJB VI 11 21 55 30.8–.82 0.28S–.07 98.49E–.09 32 4.2b,4.2L
NEIC VI 11 21 55 34.9–2.1 0.22S 98.54E 53–15 4.1b,4.2L
DJA VI 11 21 55 35.1–1.7 0S–5.0 99E–5.0 34–19 4.2b,4.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 11 23 17 47.2–.65 3.56S–.08 101.30E–.09 50 4.4b 30 1-145
IDC VI 11 23 17 40.9–1.7 3.50S 101.30E 0 4.2,4.1 **¶16684516**
ISCJB VI 11 23 17 45.4–.52 3.59S–.06 101.26E–.08 50 4.3b,4.1
NEIC VI 11 23 17 46.0–.39 3.49S 101.35E 35 4.3b,4.1
DJA VI 11 23 17 49.0–.70 3S–5.0 101E–5.0 18–9 4.4b,4.2
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Ketaun.
ISC VI 12 08 11 29.5–.97 0.21S–.07 98.21E–.07 35 3.8b 22 2-145
IDC VI 12 08 11 27.7–1.3 0.29S 99.24E 0 3.9,3.9 **¶17205818**
ISCJB VI 12 08 11 29.3–1.0 0.07S–.08 98.28E–.07 35 3.9b,3.9
DJA VI 12 08 11 29.1–.50 0N–5.0 99E–6.0 160–11 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 22 23 21.1–.98 3.5S–.20 101.5E–.20 50 4.2b 33 3-145
IDC VI 12 22 23 14.7–1.4 3.57S 101.45E 0 4.3,4.2 **¶16730362**
NEIC VI 12 22 23 18.9–2.3 3.58S 101.51E 28–16 4.4b,4.2
ISCJB VI 12 22 23 19.4–.71 3.5S–.10 101.6E–.10 50 4.3b,3.2s
DJA VI 12 22 23 21.7–1.1 4S–7.0 102E–10 27–9 4.8b,4.2

ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**VI**	**15 03 06 44.8–.65**	**2.01S–.05**	**102.08E–.07**	**204–6**	**4.0b**	**59**	**1-146**
IDC	VI	15 03 06 40.9–2.1	2.03S	102.16E	164–18	4.3,4.0		¶16684530
ISCJB	VI	15 03 06 43.6–.29	2.02S–.05	102.08E–.06	207–3	3.9b,4.0		
NEIC	VI	15 03 06 43.5–.76	2.06S	102.17E	193–8	4.3b,4.0		
DJA	VI	15 03 06 46.0–.50	2S–3.0	102E–3.0	178–5	4.9b,4.7b		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**VI**	**18 22 50 50.8–.39**	**2.52S–.06**	**101.77E–.06**	**150**	**4.5b**	**231**	**1-147**
NEIC	VI	18 22 50 48.9–.69	2.53S	101.73E	130–5	4.6b		¶16684536
MOS	VI	18 22 50 48.2–1.0	2.41S	101.86E	135	4.7b		
ISCJB	VI	18 22 50 49.3–.25	2.48S–.04	101.80E–.04	150	4.5b		
KLM	VI	18 22 50 49.7	2.51S	101.77E	130	4.7b,4.1L		
IDC	VI	18 22 50 49.3–1.8	2.61S	101.76E	136–14	4.6,4.2		
DJA	VI	18 22 50 50.3–.30	3S–4.0	102E–3.0	111–4	5.4b,4.8		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**VI**	**19 04 15 57.6–.23**	**3.24S–.03**	**101.36E–.03**	**48–1**	**5.7b,4.6s**	**1774**	**1-177**
BJI	VI	19 04 15 54.2	3.45S	101.28E	48	5.5b,5.3b		¶16632964
MOS	VI	19 04 15 54.9–.92	3.11S	101.45E	33	5.9b,4.6s		
ISCJB	VI	19 04 15 57.5–.30	3.21S–.02	101.36E–.02	56–2	5.7b,4.6s		
DJA	VI	19 04 15 58.5–.20	3S–2.0	101E–2.0	48–3	6.0,5.8b		
NEIC	VI	19 04 15 59.0–.45	3.25S	101.36E	57–3	5.6b,5.8b		
KLM	VI	19 04 15 58.7	3.48S	101.20E	38	6.5s,5.7L		
IDC	VI	19 04 15 58.5–.27	3.10S	101.37E	48–1	5.6,5.3		
GCMT	VI	19 04 15 59.0–.10	3.44S	101.12E	46–0	5.4W,5.3		
ISC	Event type se.							
MOS	Error ellipse: s-maj=7.0km s-min=3.9km az=116.0.							
ISCJB	Event type se. Error ellipse: s-maj=3.8km s-min=2.2km az=40.7.							
NEIC	Event type se. Error ellipse: s-maj=4.3km s-min=2.6km az=222.0.							
IDC	Error ellipse: s-maj=7.7km s-min=5.5km az=44.0.							
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c175; s99,c187;Duration: 1$\hat{s}$2 Moment tensor: Scale 10^{17}Nm; M_{rr}1.16±.03 $M_{\theta\theta}$-0.67±.02; $M_{\phi\phi}$-0.49±.02; $M_{r\theta}$0.74±.02; $M_{\theta\phi}$0.68±.02; $M_{\phi r}$-0.50±.02; Best double couple: NP1: ϕ_s127.00000°,δ63.00000°,λ86.00000°. NP2:ϕ_s316.00000°,δ27.00000°,λ98.00000°. Principal axes: T 1.4580,Plg71.0000°,Azm27.0000°; N 0.1000,Plg4.0000°,Azm129.0000° ; P -1.5570,Plg18.0000°,Azm220.0000° M_o1.50800×10^{17}							
DJA	**VI**	**19 08 46 53.6–.80**	**1S–10**	**100E–4.0**	**12–11**	**3.5,3.5**		**¶602004592**
ISC	**VI**	**21 16 25 07.6–.53**	**1.89S–.04**	**100.02E–.06**	**30–3**	**5.0b,4.0s**	**361**	**1-158**
KLM	VI	21 16 25 00.6	2.25S	99.40E	16	5.5s,5.0L		¶16640781
BJI	VI	21 16 25 03.6	2.40S	100.05E	40	5.0b,4.7b		
DJA	VI	21 16 25 05.8–.50	2S–4.0	100E–6.0	10	5.3b,5.3b		
MOS	VI	21 16 25 06.7–.98	1.78S	100.15E	33	5.1b,5.3b		
ISCJB	VI	21 16 25 07.9–.62	1.86S–.03	100.04E–.04	45–5	4.8b,4.1s		
IDC	VI	21 16 25 08.3–.64	1.82S	100.10E	31–4	4.8L,4.6		
NEIC	VI	21 16 25 09.0–.68	1.84S	100.15E	42–5	5.1b,4.6		
ISC	Event type fe.							
MOS	Error ellipse: s-maj=11.9km s-min=5.6km az=109.4.							
ISCJB	Event type fe. Error ellipse: s-maj=8.0km s-min=3.9km az=147.4.							
IDC	Error ellipse: s-maj=15.0km s-min=8.8km az=58.0.							
NEIC	Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=59.0. Felt [III] at Padang and Padangpanjang.							
ISC	**VI**	**24 22 17 13.1–1.3**	**3.3S–.20**	**100.6E–.20**	**29**	**4.0b**	**12**	**11-145**
IDC	VI	24 22 17 09.0–3.3	3.28S	100.60E	0	4.0,3.8		¶16731403
ISCJB	VI	24 22 17 11.4–1.1	3.2S–.10	100.6E–.20	29	4.0b,3.8		
NEIC	VI	24 22 17 14.0–.83	3.28S	100.60E	35	4.2b,3.8		
ISC	Event type se.							
IDC	Error ellipse: s-maj=133.2km s-min=19.1km az=57.0.							
ISCJB	Event type se. Error ellipse: s-maj=27.1km s-min=14.2km az=139.7.							
NEIC	Event type se. Error ellipse: s-maj=22.4km s-min=11.7km az=51.0.							
ISC	**VI**	**26 10 18 27.3–.50**	**2.88S–.06**	**100.12E–.05**	**18–2**	**4.2b,3.6s**	**67**	**0-147**
DJA	VI	26 10 18 20.9–.40	3S–3.0	100E–3.0	10	5.9b,5.5		¶16682706
ISCJB	VI	26 10 18 27.5–.58	2.90S–.05	100.10E–.06	33–5	4.2b,3.5s		
NEIC	VI	26 10 18 28.1–.76	2.90S	100.19E	24–5	4.8b,3.5s		
IDC	VI	26 10 18 28.4–.52	2.86S	100.15E	24–2	4.1,4.0		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=11.8km s-min=6.4km az=143.5.							
NEIC	Event type se. Error ellipse: s-maj=10.8km s-min=5.7km az=53.0.							
IDC	Error ellipse: s-maj=17.8km s-min=11.1km az=57.0.							
ISC	**VI**	**27 00 23 05.8–.94**	**4.68S–.08**	**102.13E–.09**	**37**	**4.0b**	**20**	**1-60**
ISCJB	VI	27 00 23 03.6–.81	4.74S–.07	102.00E–.06	37	3.8b		¶17207033
IDC	VI	27 00 23 06.8–1.9	4.74S	102.01E	51–8	3.8,3.6		
DJA	VI	27 00 23 08.2–.90	5S–4.0	102E–6.0	18–8	4.0,4.0		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**VI**	**28 19 53 02.3–.69**	**5.69S–.07**	**104.16E–.06**	**110–6**	**4.2b**	**88**	**0-145**
IDC	VI	28 19 52 49.7–.85	5.51S	104.10E	0	4.1,4.1		¶16731723
NEIC	VI	28 19 53 00.8–.63	5.57S	104.15E	92–6	4.5b,4.1		
ISCJB	VI	28 19 53 02.7–.47	5.53S–.06	104.29E–.06	126–3	4.3b,4.1		
DJA	VI	28 19 53 03.8–.30	6S–4.0	104E–4.0	98–4	5.6b,5.1		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
ISC	**VI**	**29 10 45 49.5–1.1**	**4.9S–.10**	**102.0E–.10**	**36**	**3.8b**	**20**	**1-146**
IDC	VI	29 10 45 43.5–1.9	5.02S	101.76E	0	4.1,4.1		¶17207188
DJA	VI	29 10 45 57.2–.70	5S–6.0	103E–6.0	79–11	4.3,4.3		
ISC	Event type ke.							

(275) Java Sea.

DJA	**I**	**07 03 06 52.2–1.6**	**4S–15**	**116E–6.0**	**66–19**	**3.9,3.9**		**¶601988924**
ISC	**III**	**25 21 44 18.2–.54**	**5.16S–.08**	**109.51E–.09**	**700**	**3.6b**	**50**	**2-140**
ISCJB	III	25 21 44 16.6–.31	5.15S–.07	109.51E–.07	700	3.6b		¶17198558
DJA	III	25 21 44 18.5–.90	5S–5.0	109E–4.0	684–14	4.7,4.4		
IDC	III	25 21 44 18.5–1.3	4.99S	109.69E	693–17	4.2,3.2		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=7.6km az=142.6.							
IDC	Error ellipse: s-maj=20.0km s-min=8.4km az=68.0.							

(276) Sunda Strait.

DJA	**I**	**01 06 19 33.1–.50**	**7S–4.0**	**105E–4.0**	**10**	**3.6,3.6**		**¶601988559**
DJA	**I**	**08 08 11 28.7–.50**	**6S–12**	**106E–7.0**	**47–22**	**3.6,3.6**		**¶601988995**
ISC	**I**	**11 22 12 31.0–.72**	**6.77S–.09**	**105.03E–.07**	**23**	**3.9b**	**36**	**1-145**
DJA	I	11 22 12 31.3–.40	7S–4.0	105E–4.0	10	4.7b,4.6		¶17189950
IDC	I	11 22 12 42.0–2.6	6.52S	105.41E	115–21	3.9,3.7		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=32.7km s-min=13.5km az=50.0.							
ISC	**I**	**29 12 17 39.1–1.6**	**6.11S–.09**	**104.23E–.08**	**50–13**	**3.8b**	**36**	**1-145**
IDC	I	29 12 17 33.0–1.1	5.89S	104.35E	0	4.7s,4.7		¶16136122
ISCJB	I	29 12 17 38.3–.98	6.12S–.08	104.23E–.08	63–7	3.9b,4.7		
NEIC	I	29 12 17 38.9–1.2	6.05S	104.20E	47–9	4.1b,4.7		
DJA	I	29 12 17 39.3–.80	6S–4.0	104E–4.0	11–5	4.2,4.2		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
DJA	**II**	**26 19 33 39.8–.90**	**7S–3.0**	**105E–4.0**	**11–7**	**3.7,3.7**		**¶602002216**
ISC	**II**	**27 01 12 02.0–1.8**	**6.6S–.20**	**105.0E–.10**	**49**	**3.7b**	**13**	**1-145**
IDC	II	27 01 11 59.8–7.3	4.69S	106.98E	0	3.6,3.5		¶602002248
ISCJB	II	27 01 12 01.0–1.4	6.7S–.10	104.99E–.10	49	3.6b,3.5		
DJA	II	27 01 12 01.4–1.5	7S–16	105E–12	24–11	3.8,3.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**III**	**06 04 14 10.9–.50**	**5S–4.0**	**105E–4.0**	**10**	**2.8,2.8**		**¶602002670**
ISC	**III**	**16 16 35 13.7–1.0**	**6.65S–.10**	**105.56E–.07**	**82–8**	**3.3b**	**23**	**0-42**
IDC	III	16 16 34 34.3–7.6	3.61S	103.53E	0	4.3L,3.8		¶602003156
ISCJB	III	16 16 35 12.9–.68	6.66S–.10	105.55E–.06	90–6	3.4b,3.8		
DJA	III	16 16 35 14.7–.40	7S–5.0	106E–3.0	61–5	3.8b,3.7		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**III**	**26 03 34 32.7–.40**	**6S–3.0**	**105E–3.0**	**10**	**3.6,3.6**		**¶602003546**
DJA	**III**	**26 13 48 31.4–.70**	**7S–4.0**	**105E–3.0**	**16–6**	**3.8,3.8**		**¶602003543**
DJA	**IV**	**11 20 58 25.4–.80**	**7S–7.0**	**105E–4.0**	**10**	**3.9,3.9**		**¶602003955**
DJA	**IV**	**15 17 28 15.4–.60**	**6S–3.0**	**104E–3.0**	**21–5**	**3.6,3.6**		**¶602004001**
ISC	**IV**	**19 15 58 48.1–.63**	**6.87S–.06**	**105.69E–.05**	**100**	**4.1b**	**46**	**0-144**
ISCJB	IV	19 15 58 48.0–.52	7.05S–.07	105.67E–.05	100	4.1b		¶16536017
NEIC	IV	19 15 58 48.2–.96	6.82S	105.67E	108–11	4.2b		
DJA	IV	19 15 58 50.3–.30	7S–5.0	106E–3.0	85–5	5.2b,4.8b		
IDC	IV	19 15 58 54.3–2.4	6.58S	105.89E	156–15	4.2,3.9		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=11.1km s-min=4.1km az=35.2.							
NEIC	Event type se. Error ellipse: s-maj=25.0km s-min=9.7km az=46.0.							
IDC	Error ellipse: s-maj=41.2km s-min=12.2km az=53.0.							
ISC	**V**	**02 23 59 53.9–.77**	**6.01S–.08**	**105.40E–.07**	**35**	**3.9b**	**25**	**1-80**
ISCJB	V	02 23 59 52.6–.52	6.12S–.06	105.35E–.06	35	3.9b		¶17202649
DJA	V	02 23 59 52.9–.30	6S–3.0	105E–3.0	10	4.2,4.2		
IDC	V	03 00 00 01.8–3.7	5.93S	105.49E	113–31	3.9,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.9km s-min=4.5km az=43.7.							
IDC	Error ellipse: s-maj=71.7km s-min=14.9km az=50.0.							
ISC	**V**	**04 10 19 23.8–.57**	**6.11S–.08**	**105.45E–.07**	**150**	**4.2b**	**36**	**1-144**
DJA	V	04 10 19 26.2–.60	6S–5.0	105E–4.0	107–7	4.2,4.1		¶17202743
IDC	V	04 10 19 30.2–2.0	5.81S	105.61E	205–18	4.2,3.7		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=20.6km s-min=9.4km az=64.0.							
DJA	**V**	**08 18 00 15.2–.40**	**7S–5.0**	**106E–5.0**	**54–7**	**3.6,3.6**		**¶602004227**
DJA	**V**	**18 20 30 05.3–.60**	**7S–5.0**	**105E–3.0**	**10**	**3.5,3.5**		**¶602004322**
DJA	**V**	**19 16 03 55.8–1.4**	**6S–7.0**	**104E–7.0**	**33–12**	**3.6,3.6**		**¶602004327**
ISC	**V**	**26 11 19 54.2–1.0**	**6.50S–.09**	**104.04E–.09**	**48**	**3.9b**	**20**	**1-145**
IDC	V	26 11 19 47.8–2.1	6.37S	104.05E	0	3.8,3.7		¶17204502
ISCJB	V	26 11 19 51.5–.82	6.59S–.06	103.94E–.07	48	3.8b,3.7		
DJA	V	26 11 19 51.2–.80	7S–5.0	104E–4.0	10	4.1,4.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**27 20 01 33.0–1.3**	**6.56S–.09**	**105.01E–.08**	**63–10**	**3.9b**	**34**	**1-92**
ISCJB	V	27 20 01 32.8–.79	6.51S–.08	105.07E–.07	79–5	3.8b		¶17204586
IDC	V	27 20 01 32.9–11	6.47S	104.87E	62–102	3.9,3.7		
DJA	V	27 20 01 34.1–.60	7S–4.0	105E–3.0	38–5	4.4b,4.2		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**VI**	**17 01 15 36.2–.68**	**6.90S–.04**	**104.73E–.05**	**42–5**	**4.8b,3.7s**	**293**	**3-151**
IDC	VI	17 01 15 32.1–.41	6.41S	105.00E	0	4.7,4.7		¶16621506
BJI	VI	17 01 15 33.4	7.00S	104.60E	31	4.9b,4.7b		
ISCJB	VI	17 01 15 33.1–1.2	6.74S–.04	104.82E–.04	23–8	4.8b,3.7s		
NEIC	VI	17 01 15 34.8–.77	6.96S	104.68E	36–6	5.0b,3.7s		
KLM	VI	17 01 15 35.4	7.00S	104.64E	29	5.9s,4.9b		
MOS	VI	17 01 15 35.6–1.2	6.31S	105.20E	33	5.0b,4.9b		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=16.3km s-min=10.7km az=49.0.							
ISCJB	Event type fe. Error ellipse: s-maj=7.7km s-min=4.0km az=42.6.							
NEIC	Event type fe. Error ellipse: s-maj=9.5km s-min=5.5km az=220.0. Felt [II] at Bandar Lampung, Sumatra.							
MOS	Error ellipse: s-maj=10.9km s-min=5.6km az=117.2.							

(277) Jawa.

ISC	**I**	**02 10 31 28.0–.95**	**8.34S–.08**	**109.64E–.04**	**91–9**	**3.7b**	**35**	**1-66**
ISCJB	I	02 10 31 27.4–.50	8.29S–.07	109.65E–.03	102–5	3.6b		¶17189209
DJA	I	02 10 31 28.7–.40	8S–4.0	110E–2.0	62–9	4.2,4.2		
IDC	I	02 10 31 33.7–2.3	7.97S	109.90E	139–30	4.2s,4.2		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=11.5km s-min=4.8km az=10.2.							
IDC	Error ellipse: s-maj=73.9km s-min=12.5km az=51.0.							
DJA	**I**	**06 23 58 31.7–.40**	**7S–3.0**	**105E–3.0**	**10**	**4.1b,4.0**		**¶601988910**
DJA	**I**	**12 08 11 40.8–.70**	**8S–3.0**	**107E–4.0**	**30–9**	**3.9,3.9**		**¶601989219**
ISC	**I**	**12 12 44 47.5–.62**	**7.05S–.04**	**105.20E–.04**	**50–4**	**4.8b,4.3s**	**223**	**1-156**
BJI	I	12 12 44 42.6	6.80S	105.20E	17	5.1b,4.7b		¶15922056
MOS	I	12 12 44 44.2–1.1	6.72S	105.32E	33	5.0b,4.1s		
DJA	I	12 12 44 45.6–.50	7S–2.0	105E–2.0	13–3	6.0,5.7b		
NEIC	I	12 12 44 45.8–.33	6.96S	105.08E	35	4.9b,5.7b		
GCMT	I	12 12 44 45.8–.30	7.17S	105.13E	51–1	5.0W,5.7b		
ISCJB	I	12 12 44 46.1–.48	7.08S–.03	105.15E–.03	64–3	4.7b,5.7b		
IDC	I	12 12 44 47.5–1.8	6.67S	105.35E	45–15	4.6,4.5		
KLM	I	12 12 44 51.2	6.97S	105.35E	63	6.0s,5.1b		
ISC	Event type fe.							
MOS	Error ellipse: s-maj=11.9km s-min=7.6km az=110.5.							
NEIC	Event type fe. Error ellipse: s-maj=9.4km s-min=5.8km az=221.0. Felt [II] at Cisarua, Java. Also felt at Jakarta.							
GCMT	Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s44,c59; s60,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.56±.17 $M_{\theta\theta}$-2.52±.13; $M_{\phi\phi}$-0.03±.18; $M_{r\theta}$1.90±.10; $M_{\theta\phi}$1.90±.09; $M_{\phi r}$0.14±.12; Best double couple: NP1:ϕ_s98.00000°,δ63.00000° ,λ66.00000°. NP2:ϕ_s322.00000°,δ36.00000°,λ128.00000°. Principal axes: T 3.3760,Plg64.0000°,Azm327.0000°; N 0.5820,Plg21.0000°,Azm110.0000° ; P -3.9560,Plg14.0000°,Azm205.0000° M_o3.66600×10^{16}							
ISCJB	Event type fe. Error ellipse: s-maj=6.8km s-min=3.2km az=36.0.							
IDC	Error ellipse: s-maj=17.4km s-min=10.6km az=55.0.							
DJA	**I**	**13 05 36 37.1–.40**	**7S–6.0**	**107E–3.0**	**72–5**	**5.6b,5.3b**		**¶601989288**
ISC	**I**	**14 21 10 30.1–.82**	**8.33S–.10**	**112.28E–.04**	**126–6**	**3.9b**	**35**	**0-93**
IDC	I	14 21 10 14.9–2.3	8.23S	111.99E	0	3.9,3.8b		¶16032767
NEIC	I	14 21 10 23.6–1.0	8.47S	111.71E	80–11	4.2b,3.8b		
ISCJB	I	14 21 10 29.4–.45	8.22S–.09	112.29E–.04	138–3	3.8b,3.8b		
DJA	I	14 21 10 31.8–.40	9S–6.0	112E–2.0	84–7	4.5b,4.1		
ISC	Event type se.							
NEIC	Event type se.							
ISCJB	Event type se.							
DJA	**I**	**15 09 33 48.0–.60**	**9S–6.0**	**111E–2.0**	**20–5**	**3.9,3.9**		**¶601989358**
DJA	**I**	**16 22 47 32.6–.80**	**9S–6.0**	**111E–2.0**	**28–7**	**3.9,3.9**		**¶601989455**
DJA	**I**	**19 10 59 13.9–.40**	**8S–6.0**	**108E–3.0**	**45–17**	**3.5,3.5**		**¶601989622**
ISC	**I**	**24 21 00 06.4–.86**	**8.06S–.06**	**107.88E–.04**	**66–7**	**4.3b**	**75**	**1-146**
ISCJB	I	24 21 00 05.5–.39	8.08S–.05	107.86E–.03	81–3	4.1b		¶16135738
DJA	I	24 21 00 05.7–.50	8S–4.0	108E–2.0	22–5	4.7b,4.6		
NEIC	I	24 21 00 06.1–.70	7.99S	107.75E	69–6	4.7b,4.6		
IDC	I	24 21 00 13.4–.82	7.73S	108.06E	126–5	4.0,3.7		
ISC	Event type fe.							
ISCJB	Event type fe. Error ellipse: s-maj=7.8km s-min=4.3km az=19.5.							
NEIC	Event type fe. Error ellipse: s-maj=11.4km s-min=8.0km az=221.0. Felt [III] at Pangandaran.							
IDC	Error ellipse: s-maj=28.4km s-min=11.1km az=50.0.							
DJA	**I**	**25 06 41 30.9–.30**	**7S–4.0**	**107E–2.0**	**64–4**	**3.9,3.9**		**¶601990018**
DJA	**I**	**25 17 32 09.9–.60**	**8S–4.0**	**107E–3.0**	**29–8**	**3.6,3.6**		

¶601990055
DJA I 26 19 12 32.5–.40 9S–3.0 108E–2.0 10 4.1,4.1

¶601990127
IDC I 29 20 05 17.3–2.1 8.91S 109.95E 118–34 3.4,3.2

¶17191268
IDC Error ellipse: s-maj=108.8km s-min=14.7km az=50.0.
DJA I 30 01 31 11.6–.70 9S–4.0 108E–3.0 10 4.4,4.4

¶601990345
DJA I 31 15 41 03.8–.50 9S–7.0 111E–2.0 80–10 3.6,3.6

¶601990467
DJA II 02 01 20 11.9–1.4 8S–20 108E–8.0 37–11 3.7,3.7

¶602000933
ISC II 02 07 07 48.7–1.1 6.0S–.20 113.7E–.30 595 3.6b 15 17-69
ISCJB II 02 07 07 46.7–.91 6.0S–.20 113.7E–.30 595 3.6b ¶17191526
IDC II 02 07 07 46.7–1.8 6.07S 113.58E 572–21 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.5km s-min=10.7km az=147.2.
IDC Error ellipse: s-maj=38.9km s-min=9.8km az=58.0.
ISC II 02 22 37 46.9–1.1 6.5S–.20 106.5E–.10 150 3.7b 14 1-41
ISCJB II 02 22 37 46.2–.82 6.4S–.20 106.6E–.10 150 3.6b ¶602000970
DJA II 02 22 37 47.1–.70 7S–8.0 106E–6.0 148–6 3.3,3.3
IDC II 02 22 37 50.0–5.3 8.45S 107.93E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.8km s-min=6.9km az=31.5.
IDC Error ellipse: s-maj=174.1km s-min=20.1km az=65.0.
ISC II 09 04 25 56.2–.92 8.93S–.08 112.50E–.04 86–9 4.0b 56 1-74
ISCJB II 09 04 25 56.1–.46 8.87S–.07 112.50E–.03 101–5 3.9b ¶16020140
IDC II 09 04 25 56.4–6.7 8.78S 112.40E 85–56 4.0,3.8
NEIC II 09 04 25 56.4–.67 8.92S 112.53E 85–12 4.2b,3.8
DJA II 09 04 25 57.3–.90 9S–4.0 113E–2.0 35–10 5.2b,4.6
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Blitar and Karangkates.
DJA II 10 05 29 17.7–1.3 9S–16 113E–6.0 160–13 3.0,3.0

¶602001433
ISC II 10 23 19 29.1–.40 8.49S–.06 112.76E–.04 150 4.5b 182 0-155
BJI II 10 23 19 26.3 8.50S 112.70E 136 5.1b,4.6b ¶16021074
ISCJB II 10 23 19 27.8–.24 8.44S–.04 112.75E–.03 150 4.4b,4.6b
DJA II 10 23 19 28.8–.40 9S–5.0 113E–2.0 123–5 5.3b,4.7
NEIC II 10 23 19 29.9–.51 8.36S 112.78E 153–5 4.6b,4.7
MOS II 10 23 19 29.5–1.0 8.09S 112.98E 158 4.6b,4.7
IDC II 10 23 19 31.9–1.8 8.25S 112.85E 170–16 4.6,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.2km az=19.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=4.6km az=213.0.
MOS Error ellipse: s-maj=14.7km s-min=7.0km az=123.7.
IDC Error ellipse: s-maj=16.0km s-min=8.9km az=51.0.
DJA II 12 03 17 03.5–.30 7S–4.0 108E–2.0 14–3 3.8,3.8

¶602001512
ISC II 13 12 51 00.7–1.4 8.16S–.06 110.40E–.03 7–10 3.3b 29 0-37
ISCJB II 13 12 50 59.5–1.0 8.20S–.04 110.37E–.03 5–6 3.5b ¶17192154
DJA II 13 12 51 00.7–.30 8S–3.0 110E–2.0 10 3.9,3.9
IDC II 13 12 51 02.7–2.1 8.36S 110.60E 0 3.8,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=4.8.
IDC Error ellipse: s-maj=157.7km s-min=28.5km az=30.0.
DJA II 14 07 38 25.2–.50 9S–9.0 111E–2.0 62–11 3.6,3.6

¶602001617
DJA II 14 14 07 22.0–.50 8S–4.0 107E–2.0 32–5 4.0,4.0

¶602001613
DJA II 17 13 28 39.5–.40 7S–7.0 108E–3.0 10 4.0b,3.7

¶602001793
ISC II 18 08 53 38.3–.69 8.0S–.10 112.00E–.05 162–5 3.8b 35 0-144
ISCJB II 18 08 53 37.3–.40 7.93S–.09 112.04E–.05 172–3 3.7b ¶17192468
DJA II 18 08 53 39.3–.50 8S–10 112E–2.0 140–5 4.0,4.0
IDC II 18 08 53 43.0–2.3 7.64S 112.20E 202–24 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=6.3km az=16.8.
IDC Error ellipse: s-maj=38.5km s-min=10.6km az=50.0.
DJA II 19 01 51 35.7–.50 8S–4.0 107E–3.0 26–5 3.9,3.9

¶602001888
DJA II 19 12 49 02.5–2.1 8S–7.0 106E–5.0 35–25 3.7,3.7

¶602001877
DJA II 19 19 11 32.2–.90 8S–5.0 106E–4.0 10 3.6,3.6

¶602001876
DJA II 20 04 06 51.3–.90 8S–11 108E–7.0 47–10 3.6,3.6

¶602001911
IDC II 20 08 04 53.8–2.0 8.33S 110.24E 0 4.0,3.8

¶17192574
IDC Error ellipse: s-maj=187.5km s-min=27.6km az=32.0.
DJA II 20 16 12 56.3–.70 8S–5.0 107E–3.0 40–5 4.0,4.0

¶602001905
ISC II 20 20 15 43.5–.58 8.3S–.10 109.76E–.05 100 4.1b 53 1-155
IDC II 20 20 15 41.7–.95 7.97S 109.83E 73–8 4.2,3.9 ¶16398624
ISCJB II 20 20 15 42.8–.37 8.24S–.07 109.74E–.03 100 4.1b,3.9
NEIC II 20 20 15 42.9–.95 8.14S 109.69E 88–9 4.2b,3.9
DJA II 20 20 15 43.1–1.3 9S–7.0 110E–2.0 34–14 5.1b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 22 04 06 04.0–1.6 8.3S–.10 108.46E–.06 100 3.8b 20 1-65
ISCJB II 22 04 06 02.8–1.2 8.4S–.20 108.44E–.06 100 3.5b ¶17192671
DJA II 22 04 06 02.5–1.2 9S–10 108E–4.0 20–9 4.2,4.2
IDC II 22 04 06 13.3–1.4 7.66S 108.85E 133–30 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=6.4km az=15.3.
IDC Error ellipse: s-maj=121.0km s-min=17.5km az=49.0.
ISC II 22 17 13 35.9–.43 6.56S–.06 108.09E–.06 250 4.1b 107 1-144
ISCJB II 22 17 13 35.2–.22 6.51S–.04 108.11E–.03 250 4.0b ¶16398766
DJA II 22 17 13 36.1–.20 7S–5.0 108E–2.0 253–3 5.2b,4.7
IDC II 22 17 13 37.0–.87 6.34S 108.27E 253–7 4.3,3.8
KLM II 22 17 13 38.3 6.59S 107.91E 289 5.9s,4.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.3km az=31.8.
IDC Error ellipse: s-maj=17.6km s-min=7.6km az=63.0.
ISC II 24 02 34 40.5–1.2 7.05S–.10 105.74E–.07 59–10 3.4b 28 0-145
IDC II 24 02 34 30.4–2.9 6.93S 105.38E 0 3.7,3.6 ¶17192767
ISCJB II 24 02 34 39.8–.88 7.14S–.09 105.70E–.06 58–11 3.5b,3.6
DJA II 24 02 34 40.6–.50 7S–3.0 106E–2.0 31–4 4.3,4.3
ISC Event type ke.
ISCJB Event type ke.
DJA II 24 08 16 42.8–.40 8S–3.0 107E–2.0 10 4.1,4.1

¶602002087
DJA II 25 03 45 00.8–1.0 7S–7.0 106E–4.0 26–7 4.3b,4.0

¶602002153
IDC II 25 19 02 56.8–1.4 6.09S 109.70E 0 3.6,3.5

¶17192859
IDC Error ellipse: s-maj=32.7km s-min=17.0km az=175.0.
ISC II 26 06 29 35.6–.50 6.81S–.05 107.12E–.04 185–4 4.4b 156 0-150
BJI II 26 06 29 32.4 6.96S 107.03E 179 4.9b,4.7b ¶16193678
ISCJB II 26 06 29 34.2–.22 6.82S–.04 107.13E–.03 183–2 4.6b,4.7b
NEIC II 26 06 29 35.4–.45 6.56S 107.19E 187–4 5.0b,4.7b
DJA II 26 06 29 35.8–.20 7S–4.0 107E–2.0 163–3 5.5b,5.4b
IDC II 26 06 29 37.0–.38 6.42S 107.27E 197–2 4.5,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.2km az=29.8.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=4.8km az=216.0.
IDC Error ellipse: s-maj=14.8km s-min=8.9km az=46.0.
DJA II 26 22 52 00.8–.60 9S–9.0 109E–4.0 63–19 4.1b,3.9

¶602002215
DJA III 02 18 17 24.8–.30 8S–4.0 107E–2.0 45–8 4.5b,4.4

¶602002459
DJA III 03 22 23 36.8–.60 7S–3.0 105E–3.0 27–7 4.7b,4.2

¶602002535
DJA III 06 05 54 06.6–.30 8S–4.0 108E–2.0 49–7 4.3b,4.0

¶602002669
DJA III 10 20 11 40.5–.80 8S–5.0 107E–3.0 21–6 5.0b,4.4

¶602002948
ISC III 11 01 39 00.4–1.2 8.8S–.10 111.44E–.05 103–10 3.7b 20 1-75
IDC III 11 01 38 50.2–1.9 7.78S 112.09E 0 3.9,3.8 ¶17193670
ISCJB III 11 01 39 00.1–.77 8.68S–.09 111.38E–.05 116–7 3.6b,3.8
DJA III 11 01 39 03.1–.60 9S–4.0 111E–2.0 72–7 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 04 19 20.0–.99 8.0S–.10 112.29E–.08 100 4.2b 12 1-36
IDC III 13 04 18 52.4–12 6.79S 110.94E 0 4.5,4.3 ¶17194709
ISCJB III 13 04 19 18.8–.96 8.1S–.20 112.29E–.09 100 4.1b,4.3
DJA III 13 04 19 20.1–1.1 8S–10 112E–5.0 127–6 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
DJA III 13 15 22 05.2–.80 9S–6.0 110E–2.0 26–9 4.2,4.2b

¶602003026
ISC III 15 14 33 51.0–1.1 8.7S–.10 111.40E–.06 127–8 3.3b 20 0-66
IDC III 15 14 33 37.9–3.0 7.90S 111.78E 0 4.2s,4.2 ¶17196164
ISCJB III 15 14 33 50.2–.76 8.6S–.10 111.38E–.07 133–7 3.4b,4.2
DJA III 15 14 33 52.0–.50 9S–6.0 111E–3.0 103–6 3.7b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 15 16 30 14.2–1.5 7.4S–.10 106.04E–.07 63–11 3.7b 25 1-145
DJA III 15 16 30 13.4–.50 7S–3.0 106E–2.0 18–6 4.1,4.1 ¶17196186
ISCJB III 15 16 30 13.3–1.1 7.4S–.10 106.03E–.07 78–7 3.6b,4.1
IDC III 15 16 30 20.4–4.5 6.89S 105.98E 99–41 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=6.7km az=28.4.
IDC Error ellipse: s-maj=54.3km s-min=27.4km az=69.0.
ISC III 18 16 25 04.0–1.1 7.33S–.04 107.55E–.03 10–8 3.6b,3.2s 53 0-97
IDC III 18 16 25 01.7–1.1 7.38S 107.19E 0 3.9,3.7b ¶16479226
NEIC III 18 16 25 02.3–1.6 7.55S 107.33E 15 3.8b,3.7b
ISCJB III 18 16 25 05.0–.43 7.33S–.04 107.58E–.03 24–4 3.5b,3.4s
DJA III 18 16 25 05.3–.20 7S–2.0 108E–1.0 17 4.3b,4.1
ISC Event type fe.
NEIC Event type fe. Felt [II] at Pengalengan.
ISCJB Event type fe.
DJA III 18 21 47 33.5–.70 8S–10 107E–5.0 55–11 3.2,3.2

¶602003258
ISC III 19 01 16 13.3–.93 8.92S–.06 111.35E–.05 70–8 4.5b 147 1-155
BJI III 19 01 16 10.5 9.00S 111.30E 60 5.1b,5.0 ¶16338024
DJA III 19 01 16 11.8–.60 9S–3.0 111E–1.0 16–6 5.5b,5.1
ISCJB III 19 01 16 12.5–.42 8.91S–.04 111.35E–.02 81–3 4.5b,5.1
NEIC III 19 01 16 13.0–.58 8.93S 111.31E 72–5 4.6b,5.1
IDC III 19 01 16 18.0–1.7 8.67S 111.50E 112–14 4.5,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.4km az=18.4.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.7km az=209.0.
IDC Error ellipse: s-maj=15.9km s-min=9.4km az=44.0.
ISC III 19 06 25 53.5–1.1 8.8S–.20 112.51E–.04 73–15 3.3b 19 1-62
IDC III 19 06 25 45.6–2.1 8.02S 113.14E 0 3.9,3.7 ¶17197145
ISCJB III 19 06 25 52.9–.66 8.7S–.20 112.52E–.04 85–11 3.5b,3.7
DJA III 19 06 25 54.5–.70 9S–10 112E–2.0 52–16 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 14 21 45.8–.92 6.3S–.10 107.4E–.10 350 3.4b 17 1-59
DJA III 19 14 21 39.8–3.2 6S–15 108E–10 373–37 3.3,3.3 ¶17197255
ISCJB III 19 14 21 43.4–.60 6.4S–.10 107.2E–.10 350 3.3b,3.3
IDC III 19 14 21 47.5–.90 6.00S 107.73E 339–14 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=11.5km az=143.3.
IDC Error ellipse: s-maj=52.0km s-min=11.8km az=53.0.
ISC III 20 01 20 15.0–.69 7.72S–.04 106.92E–.03 58–6 4.8b,4.6s 266 0-156
DJA III 20 01 20 13.6–.20 8S–2.0 107E–2.0 10 5.8b,5.4 ¶16339555
ISCJB III 20 01 20 14.5–.38 7.69S–.04 106.92E–.03 69–3 4.7b,5.4
NEIC III 20 01 20 16.1–.65 7.47S 106.97E 70–5 4.8b,5.4
BJI III 20 01 20 16.2 7.60S 106.90E 73 5.1b,5.0s
IDC III 20 01 20 20.9–1.1 7.32S 107.05E 110–9 4.6,4.4
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=3.1km az=28.5.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.6km az=214.0. Felt [III] at Bogor, Pangandaran and Pelabuhanratu. Also felt at Bandung.
IDC Error ellipse: s-maj=14.4km s-min=8.6km az=56.0.
DJA III 21 07 43 09.1–.20 8S–3.0 111E–1.0 10 3.8,3.8

¶602003352
ISC III 21 22 00 21.5–1.0 7.95S–.09 109.07E–.04 55–11 3.7b 36 1-84
ISCJB III 21 22 00 20.7–.44 7.93S–.08 109.09E–.03 55–9 3.7b ¶17197763
DJA III 21 22 00 21.2–.30 8S–4.0 109E–1.0 30–3 4.3,4.3
IDC III 21 22 00 27.7–1.7 8.12S 108.42E 147–10 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=3.9km az=6.9.
IDC Error ellipse: s-maj=85.8km s-min=14.7km az=47.0.
ISC III 22 00 37 16.8–.64 7.68S–.05 105.77E–.04 25–4 4.4b,3.5s 118 1-148
ISCJB III 22 00 37 15.9–.61 7.75S–.04 105.83E–.04 39–5 4.4b,3.6s ¶16450717
NEIC III 22 00 37 16.7–.76 7.74S 105.79E 30–5 4.6b,3.6s
DJA III 22 00 37 16.0–.30 8S–3.0 106E–3.0 10 5.1b,4.9b
BJI III 22 00 37 16.6 7.80S 105.80E 41 5.0b,4.5b
IDC III 22 00 37 27.3–2.0 7.38S 106.23E 114–18 4.2,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.3km az=39.3.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.9km az=214.0.
IDC Error ellipse: s-maj=22.8km s-min=11.2km az=57.0.
DJA III 22 06 28 58.3–.40 8S–4.0 108E–2.0 41–7 3.7,3.7

¶602003391
ISC III 22 08 52 21.6–.80 7.14S–.08 105.13E–.05 23 3.8b 40 1-145
DJA III 22 08 52 24.3–.80 7S–5.0 105E–3.0 19–7 4.8b,4.5 ¶17197967
IDC III 22 08 52 32.9–4.3 7.08S 105.38E 125–31 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=48.6km s-min=14.7km az=58.0.
DJA III 25 05 52 01.6–1.0 8S–10 107E–5.0 27–6 3.8,3.8

¶602003493
ISC III 27 03 08 10.4–.50 8.68S–.08 110.88E–.04 69 4.2b 66 1-142
IDC III 27 03 08 01.7–.77 8.54S 110.70E 0 4.1,4.1L ¶16481126
ISCJB III 27 03 08 08.9–.36 8.80S–.06 110.85E–.03 69 4.0b,4.1L
DJA III 27 03 08 10.4–.70 9S–6.0 111E–2.0 24–7 5.2b,4.9b
NEIC III 27 03 08 11.2–.85 8.71S 110.87E 80–7 4.4b,4.9b
ISC Event type fe.
IDC Error ellipse: s-maj=32.3km s-min=14.3km az=54.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=3.6km az=17.7.
NEIC Event type fe. Error ellipse: s-maj=13.3km s-min=6.4km az=219.0. Felt [II] at Tulungagung.
DJA III 29 07 58 27.8–.80 8S–6.0 107E–4.0 18–10 4.0,4.0

¶602003650
ISC III 29 21 10 19.7–1.1 7.92S–.10 106.62E–.06 35 3.6b 19 1-144
IDC III 29 21 10 10.5–1.2 7.20S 106.59E 0 3.9,3.8 ¶17199114
DJA III 29 21 10 16.9–.60 8S–6.0 107E–3.0 10 5.1b,4.6b
ISCJB III 29 21 10 18.1–.84 8.04S–.08 106.56E–.05 33 3.8b,4.6b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 02 06 05 29.8–2.1 8.5S–.30 112.74E–.08 150 3.6b 9 1-67
IDC IV 02 06 04 55.1–44 10.99S 113.37E 0 3.7,3.7 ¶602003816
DJA IV 02 06 05 31.1–2.1 9S–21 113E–5.0 130–23 3.3,3.3
ISC Event type ke.
DJA IV 02 14 43 10.1–.90 9S–6.0 111E–3.0 15–6 3.5,3.5

¶602003815
ISC IV 04 06 37 19.1–1.1 8.33S–.06 107.21E–.06 10 3.5b 20 1-64
ISCJB IV 04 06 37 17.8–.92 8.42S–.06 107.16E–.07 10 3.5b ¶17199739

DJA IV 04 06 37 21.0–.40 8S–3.0 107E–3.0 10 4.3,4.3
IDC IV 04 06 37 25.0–1.2 7.66S 108.70E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.8km az=143.9.
IDC Error ellipse: s-maj=77.2km s-min=14.0km az=42.0.
ISC IV 04 15 14 14.5–.96 7.8S–.10 108.32E–.04 99–7 3.6b 28 0-83
ISCJB IV 04 15 14 13.5–.53 7.9S–.10 108.32E–.03 105–6 3.5b **¶17199781**
DJA IV 04 15 14 15.0–.30 8S–3.0 108E–1.0 84–3 4.5b,4.3
IDC IV 04 15 14 17.4–.77 7.27S 108.50E 155–14 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=4.6km az=9.2.
IDC Error ellipse: s-maj=77.8km s-min=14.7km az=47.0.
ISC IV 05 04 34 44.1–.56 7.13S–.03 106.06E–.03 64–4 5.2b 730 1-176
MOS IV 05 04 34 39.4–1.1 6.81S 106.24E 33 5.4b **¶16408849**
BJI IV 05 04 34 41.0 7.00S 106.20E 43 5.0b,4.9b
IDC IV 05 04 34 42.0–1.3 6.89S 106.23E 40–10 5.0,4.8
DJA IV 05 04 34 43.4–.20 7S–2.0 106E–1.0 50–3 5.6b,5.6
ISCJB IV 05 04 34 44.9–.32 7.02S–.03 106.15E–.02 84–2 5.0b,5.6
GCMT IV 05 04 34 46.3–.20 7.35S 106.01E 55–1 5.2W,5.6
KLM IV 05 04 34 46.6 7.19S 106.00E 101 5.8s,5.3b
NEIC IV 05 04 34 46.3–.67 6.93S 106.22E 83–5 5.2b,5.3b
ISC Event type fe.
MOS Error ellipse: s-maj=10.8km s-min=5.1km az=116.1.
IDC Error ellipse: s-maj=11.4km s-min=8.8km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=2.6km az=32.9.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c96; s82,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.70±.24 $M_{\theta\theta}$-4.24±.19; $M_{\phi\phi}$-1.46±.23; $M_{r\theta}$2.68±.15; $M_{\theta\phi}$4.56±.14; $M_{\phi r}$-0.75±.17; Best double couple: NP1:ϕ_s115.00000°,δ57.00000°,λ76.00000°. NP2:ϕ_s320.00000°,δ36.00000°,λ111.00000°. Principal axes:
T 6.4010,Plg74.0000°,Azm347.0000°; N 1.7100,Plg12.0000°,Azm123.0000°
; P -8.1110,Plg11.0000°,Azm215.0000° $M_0$7.25600×10^{16}
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=3.7km az=223.0. Felt [III] at Banten, Cianjur and Sukabumi; [II] at Bogor and Jakarta. Also felt at Bandung, Cilegon, Curug, Karawang, Palabuhanratu, Serpong and Tangerang.
IDC IV 07 10 09 23.9–40 7.27S 106.01E 0 3.9,3.7b
¶17200095
IDC Error ellipse: s-maj=684.9km s-min=158.3km az=126.0.
ISC IV 07 22 07 06.8–.89 7.82S–.07 105.96E–.06 31 4.2b 31 1-145
IDC IV 07 22 07 05.5–1.6 7.24S 105.85E 0 4.1,4.1 **¶16525088**
ISCJB IV 07 22 07 07.4–.73 7.75S–.07 105.76E–.05 31 4.2b,4.1
DJA IV 07 22 07 08.6–.60 8S–3.0 106E–3.0 18–8 5.0b,4.5
NEIC IV 07 22 07 10.9–.57 7.23S 105.93E 35 4.2b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=89.4km s-min=27.9km az=56.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.4km az=11.7.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=217.0.
DJA IV 08 00 36 49.4–1.1 8S–6.0 106E–4.0 15–11 3.7,3.7
¶602003909
DJA IV 11 17 58 42.0–.70 8S–5.0 106E–3.0 22–7 3.9b,3.8
¶602003954
DJA IV 13 14 01 03.7–.40 9S–4.0 108E–2.0 45–14 3.6,3.6
¶602003976
ISC IV 14 05 34 55.7–1.1 8.5S–.10 108.66E–.05 55 3.2b 17 1-38
ISCJB IV 14 05 34 54.4–.81 8.55S–.09 108.65E–.05 55 3.4b **¶602003982**
DJA IV 14 05 34 57.6–.90 8S–9.0 109E–3.0 38–7 3.8,3.8
IDC IV 14 05 35 18.7–8.5 9.77S 111.98E 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=5.2km az=17.8.
IDC Error ellipse: s-maj=145.8km s-min=120.6km az=170.0.
ISC IV 14 12 40 05.8–.42 6.20S–.07 112.93E–.07 590 4.2b 87 2-146
ISCJB IV 14 12 40 04.5–.23 6.27S–.04 112.88E–.04 590 4.2b **¶16706885**
DJA IV 14 12 40 04.2–1.0 6S–6.0 113E–3.0 611–14 5.2b,4.9b
IDC IV 14 12 40 05.9–1.2 6.10S 112.94E 587–14 4.7,3.7
KLM IV 14 12 40 05.6 6.31S 112.83E 578 5.5s,4.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=45.0.
IDC Error ellipse: s-maj=14.4km s-min=6.4km az=60.0.
DJA IV 15 07 34 06.2–.90 9S–7.0 110E–3.0 10 3.5,3.5
¶602003993
DJA IV 17 10 26 08.8–.40 7S–5.0 108E–3.0 13–4 3.6,3.6
¶16442681
ISC IV 17 22 18 56.4–1.2 7.23S–.09 105.93E–.06 68–10 3.8b 33 1-145
IDC IV 17 22 18 48.4–2.9 6.99S 106.28E 0 3.8,3.7 **¶17201365**
ISCJB IV 17 22 18 55.2–.85 7.28S–.08 105.90E–.06 78–7 3.5b,3.7
DJA IV 17 22 18 56.1–.50 7S–3.0 106E–2.0 34–5 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 17 23 56 47.0–.78 7.58S–.06 106.04E–.05 35 3.9b 44 1-145
ISCJB IV 17 23 56 46.2–.65 7.74S–.04 105.99E–.04 35 3.9b,3.0s **¶17201372**
DJA IV 17 23 56 47.1–.30 8S–2.0 106E–2.0 13 4.2,4.2
IDC IV 17 23 56 54.1–4.4 7.47S 105.90E 112–36 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.9km az=33.2.
IDC Error ellipse: s-maj=50.3km s-min=15.9km az=53.0.
ISC IV 18 01 08 17.0–1.1 7.79S–.06 105.89E–.05 10 3.8b 32 1-68
ISCJB IV 18 01 08 15.6–.84 7.88S–.05 105.87E–.04 10 3.9b **¶602004026**
DJA IV 18 01 08 17.1–.60 8S–2.0 106E–2.0 12–5 3.9,3.9
IDC IV 18 01 08 23.4–1.1 5.12S 108.43E 0 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.9km az=35.4.
IDC Error ellipse: s-maj=30.1km s-min=20.9km az=77.0.
DJA IV 18 06 03 16.7–.30 7S–3.0 106E–3.0 108–5 5.8b,5.3
¶602004027
DJA IV 20 04 07 43.8–.40 8S–3.0 108E–2.0 29–4 3.9,3.9
¶602004044
DJA IV 20 16 50 39.5–.60 8S–4.0 107E–2.0 10 3.6,3.6
¶602004050
DJA IV 21 21 51 42.6–.50 8S–4.0 107E–2.0 40–6 3.9,3.9
¶602004056
DJA IV 22 18 40 59.8–.90 8S–5.0 107E–4.0 21–7 3.5,3.5
¶602004065
DJA IV 24 02 58 35.7–1.4 9S–9.0 110E–3.0 31–14 4.1,4.1
¶602004076
ISC IV 26 06 39 35.1–.30 8.06S–.03 108.49E–.03 86–2 5.6b 1088 0-179
BJI IV 26 06 39 32.9 8.00S 108.50E 79 5.3b,5.3b **¶16459965**
NEIC IV 26 06 39 34.0–.00 8.43S 108.69E 79 5.3b,5.3b
DJA IV 26 06 39 35.2–.20 8S–2.0 108E–1.0 66–2 6.3,6.1b
KLM IV 26 06 39 35.5 8.33S 108.09E 115 6.5s,5.9L
ISCJB IV 26 06 39 35.3–.25 8.08S–.02 108.50E–.02 98–2 5.5b,5.9L
MOS IV 26 06 39 36.9–1.1 7.92S 108.57E 108 5.7b,4.6s
NEIC IV 26 06 39 36.5–.78 8.08S 108.48E 95–6 5.7b,5.6W
GCMT IV 26 06 39 38.0–.10 8.38S 108.40E 82–0 5.6W,5.6W
IDC IV 26 06 39 40.7–.67 8.03S 108.62E 131–5 5.4,5.1
ISC Event type fe.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}1.70 $M_{\theta\theta}$0.30 $M_{\phi\phi}$-2.00 $M_{r\theta}$1.00 $M_{\theta\phi}$-0.40 $M_{\phi r}$-2.50 Best double couple: NP1:ϕ_s164.00000°,δ73.00000°,λ72.00000°. NP2:ϕ_s32.00000°,δ23.00000°,λ135.00000°. Principal axes:
T 3.3000,Plg57.0000°,Azm50.0000°; N 0.0000,Plg16.0000°,Azm169.0000°
; P -3.3000,Plg26.0000°,Azm267.0000° $M_0$3.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=27.4.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=111.8.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=3.8km az=50.0. Felt [IV] at Pangandaran; [III] at Bogor, Cilacap Karangkates and Yogyakarta; [II] at Bandung and Jakarta. Also felt at Banjaran, Karawang, Kebumen, Magelang, Padalarang, Purwokerto, Tasikmalaya and Wonosobo. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}2.35 $M_{\theta\theta}$0.29 $M_{\phi\phi}$-2.64 $M_{r\theta}$0.84 $M_{\theta\phi}$-0.44 $M_{\phi r}$-1.88 Best double couple: NP1:ϕ_s169.00000°,δ65.00000°,λ71.00000°. NP2:ϕ_s28.00000°,δ31.00000°,λ125.00000°. Principal axes:
T 3.2700,Plg64.0000°,Azm46.0000°; N 0.0000,Plg17.0000°,Azm177.0000°
; P -3.2700,Plg18.0000°,Azm273.0000° $M_0$3.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c220; s122,c258;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}2.34±.04 $M_{\theta\theta}$0.45±.04; $M_{\phi\phi}$-2.80±.05; $M_{r\theta}$1.10±.03; $M_{\theta\phi}$-0.25±.04; $M_{\phi r}$-1.85±.03; Best double couple: NP1: ϕ_s163.00000°,δ66.00000°,λ69.00000°. NP2:ϕ_s26.00000°,δ32.00000°,λ129.00000°. Principal axes: T 3.3700,Plg63.0000°,Azm38.0000°; N 0.0220,Plg20.0000°,Azm172.0000° ; P -3.3990,Plg18.0000°,Azm268.0000° $M_0$3.38500×10^{17}
IDC Error ellipse: s-maj=8.5km s-min=6.8km az=62.0.
ISC IV 26 07 24 57.6–.50 8.21S–.05 108.45E–.04 78–3 4.8b 318 0-153
DJA IV 26 07 24 56.8–.20 9S–2.0 108E–1.0 45–5 5.5b,5.1 **¶16459966**
ISCJB IV 26 07 24 57.7–.34 8.12S–.04 108.48E–.02 94–2 4.8b,5.1
MOS IV 26 07 24 58.8–1.2 8.01S 108.49E 100 4.9b,5.1
NEIC IV 26 07 24 59.0–.97 8.11S 108.45E 90–8 4.8b,5.1
IDC IV 26 07 25 03.8–.83 8.00S 108.65E 133–6 4.6,4.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.4km s-min=3.2km az=22.7.
MOS Error ellipse: s-maj=9.5km s-min=6.4km az=107.6.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=4.9km az=46.0. Felt at Bandung and Jakarta.
IDC Error ellipse: s-maj=14.4km s-min=8.3km az=48.0.
ISC IV 28 17 41 59.6–.62 8.83S–.06 109.85E–.03 51–5 4.7b,3.9s 172 1-155
NEIC IV 28 17 41 56.1–1.6 8.88S 109.78E 24–11 4.9b,3.9s **¶16476117**
MOS IV 28 17 41 57.1–1.2 8.73S 110.01E 43 5.0b,3.9s
DJA IV 28 17 41 57.7–.70 9S–3.0 110E–1.0 12–5 5.3b,5.3
ISCJB IV 28 17 41 59.0–.51 8.91S–.05 109.82E–.02 64–4 4.6b,5.3
IDC IV 28 17 41 59.3–.65 8.81S 109.94E 47–6 4.5,4.4
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=9.4km s-min=6.8km az=223.0. Felt [II] at Bantul and Yogyakarta.
MOS Error ellipse: s-maj=14.2km s-min=7.1km az=112.3.
ISCJB Event type fe. Error ellipse: s-maj=7.9km s-min=3.5km az=13.0.
IDC Error ellipse: s-maj=17.2km s-min=10.6km az=63.0.
ISC IV 29 07 25 14.8–.91 8.47S–.08 110.33E–.04 92–7 4.0b 37 1-85
ISCJB IV 29 07 25 14.4–.54 8.59S–.08 110.33E–.03 83–8 4.0b **¶17202359**
DJA IV 29 07 25 16.4–.50 9S–3.0 110E–1.0 39–5 4.9b,4.5b
IDC IV 29 07 25 20.7–2.4 8.15S 110.54E 143–24 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=4.9km az=6.1.
IDC Error ellipse: s-maj=27.7km s-min=12.9km az=57.0.
DJA V 01 12 25 40.3–1.1 8S–9.0 107E–6.0 25–13 3.6,3.6
¶602004158
ISC V 03 16 18 26.7–1.3 8.9S–.10 111.16E–.08 55 3.1b 17 1-61
IDC V 03 16 18 17.9–3.2 8.99S 110.86E 0 3.5,3.3 **¶17202694**
ISCJB V 03 16 18 25.2–.72 9.01S–.08 111.15E–.05 55 3.2b,3.3
DJA V 03 16 18 26.4–.70 9S–5.0 111E–2.0 28–7 4.0b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC V 04 12 09 17.7–.94 8.1S–.10 108.50E–.06 78 3.4b 19 0-59
ISCJB V 04 12 09 16.8–.67 8.2S–.10 108.49E–.06 78 3.5b **¶17202752**
DJA V 04 12 09 16.3–.60 8S–5.0 108E–2.0 21–6 4.2,4.2
IDC V 04 12 09 19.8–19 7.72S 108.74E 98–183 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=5.7km az=26.0.
IDC Error ellipse: s-maj=152.3km s-min=30.7km az=56.0.
ISC V 04 12 31 37.3–1.4 7.86S–.05 107.27E–.04 27–13 23 1-29
ISCJB V 04 12 31 37.0–.81 7.88S–.04 107.23E–.04 32–6 4.4b **¶16512051**
NEIC V 04 12 31 38.4–.73 7.83S 107.20E 35 4.4b
DJA V 04 12 31 38.6–.50 8S–4.0 107E–2.0 25–4 4.1,4.1
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Pangalengan.
DJA V 05 07 16 50.7–.70 7S–4.0 105E–3.0 21–5 4.1,4.1
¶602004200
ISC V 06 10 33 18.9–1.5 7.8S–.20 107.10E–.09 58–13 3.6b 27 0-144
DJA V 06 10 33 16.9–.50 8S–3.0 107E–2.0 16–5 4.5b,4.5 **¶17202915**
ISCJB V 06 10 33 18.5–1.7 7.92S–.07 107.04E–.05 33–12 3.7b,4.5
IDC V 06 10 33 20.5–13 7.26S 107.39E 62–108 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=5.6km az=30.9.
IDC Error ellipse: s-maj=219.8km s-min=18.4km az=54.0.
IDC V 06 10 48 44.3–40 7.27S 108.72E 0 3.9,3.7
¶17202916
IDC Error ellipse: s-maj=669.2km s-min=164.0km az=131.0.
ISC V 08 08 05 15.9–.47 7.32S–.07 111.96E–.05 250 4.1b 77 0-145
ISCJB V 08 08 05 14.0–.24 7.30S–.05 111.95E–.03 250 4.1b **¶16633257**
NEIC V 08 08 05 14.5–.49 7.18S 111.98E 229–5 4.5b
DJA V 08 08 05 15.7–.20 7S–4.0 112E–2.0 216–3 5.5b,4.9
IDC V 08 08 05 17.7–1.2 7.09S 112.11E 260–13 4.4,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=3.4km az=20.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=6.5km az=210.0.
IDC Error ellipse: s-maj=17.5km s-min=8.7km az=44.0.
IDC V 12 16 38 04.6–4.0 8.10S 109.31E 0 3.7,3.5b
¶17203485
IDC Error ellipse: s-maj=215.6km s-min=28.0km az=48.0.
ISC V 12 19 14 26.3–.89 6.8S–.20 106.4E–.10 200 3.5b 19 0-81
ISCJB V 12 19 14 24.6–.52 6.7S–.20 106.5E–.10 200 3.4b **¶17203497**
DJA V 12 19 14 27.6–.40 7S–7.0 107E–5.0 168–5 4.0b,3.9
IDC V 12 19 14 29.5–1.8 6.24S 106.50E 203–14 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.1km s-min=8.2km az=37.1.
IDC Error ellipse: s-maj=57.8km s-min=13.5km az=52.0.
DJA V 13 17 06 56.6–.50 6S–5.0 106E–5.0 114–11 3.6,3.6
¶602004269
DJA V 14 11 22 04.4–1.1 8S–11 108E–3.0 38–5 3.7,3.7
¶602004272
DJA V 15 09 17 35.0–.60 8S–4.0 108E–2.0 27–6 3.9,3.9
¶602004281
ISC V 17 14 38 24.5–1.4 7.7S–.10 106.0E–.10 35 2.9b 11 1-58
IDC V 17 14 38 17.0–2.0 7.96S 105.28E 0 4.6L,3.5 **¶17203823**
DJA V 17 14 38 20.9–.50 8S–4.0 106E–4.0 10 5.1b,4.5b
ISCJB V 17 14 38 23.6–1.4 7.7S–.10 106.0E–.10 33 3.1b,4.5b
ISC Event type ke.
ISCJB Event type ke.
DJA V 18 06 11 50.8–.80 8S–12 107E–5.0 45–14 3.5,3.5
¶602004316
IDC V 19 06 42 56.0–1.2 6.68S 108.73E 130–18 4.0,3.8
¶17203948
IDC Error ellipse: s-maj=40.3km s-min=18.6km az=42.0.
DJA V 21 06 52 57.8–.40 8S–3.0 107E–2.0 10 3.9,3.9
¶602004339
ISC V 21 09 00 28.8–3.5 8.2S–.10 113.8E–.30 16 3.4b 6 0-35
DJA V 21 09 00 33.0–.50 8S–5.0 114E–4.0 10–6 3.2,3.2 **¶17204125**
IDC V 21 09 00 33.7–7.3 9.30S 113.83E 0 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=134.7km s-min=105.0km az=19.0.
ISC V 22 23 35 58.5–.58 8.98S–.07 110.56E–.03 10 4.3b 37 1-80
IDC V 22 23 35 56.4–2.3 8.87S 110.59E 0 4.0,3.9 **¶16631859**
NEIC V 22 23 36 00.2–1.8 8.89S 110.57E 25–14 4.4b,3.9
DJA V 22 23 36 07.8–.40 9S–10 111E–2.0 69–21 5.0b,4.4
ISC Event type se.
NEIC Event type se.
ISC V 23 16 40 09.2–.99 7.5S–.10 106.73E–.07 66 3.4b 18 0-144
ISCJB V 23 16 40 07.7–.80 7.5S–.10 106.72E–.08 66 3.5b **¶17204309**
DJA V 23 16 40 07.1–.60 8S–5.0 107E–3.0 27–6 4.2,4.2
IDC V 23 16 40 13.0–4.0 7.15S 106.69E 115–27 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.1km s-min=6.3km az=33.0.
IDC Error ellipse: s-maj=81.7km s-min=22.6km az=51.0.
DJA V 25 03 10 30.9–.90 8S–7.0 107E–4.0 30–6 3.8,3.8
¶602004372

ISC V 27 03 58 04.9–.80 8.1S–.10 107.32E–.07 62 3.8b 41 1-144
ISCJB V 27 03 58 03.8–.58 8.06S–.06 107.32E–.04 62 3.8b **¶17204543**
DJA V 27 03 58 03.2–.50 8S–3.0 107E–2.0 16–5 5.2b,4.9b
IDC V 27 03 58 11.5–2.3 7.83S 107.48E 115–13 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=3.9km az=25.3.
IDC Error ellipse: s-maj=53.8km s-min=15.5km az=56.0.
DJA V 27 09 02 39.4–.60 8S–10 109E–3.0 41–10 3.8,3.8
¶602004390
ISC V 27 12 47 24.8–.60 8.87S–.08 109.61E–.04 38–3 4.3b 57 2-132
IDC V 27 12 47 19.5–.76 8.69S 109.63E 0 4.2,4.2b **¶16711058**
DJA V 27 12 47 21.8–.30 9S–3.0 110E–1.0 10 4.5b,4.4
ISCJB V 27 12 47 24.0–.69 8.81S–.06 109.63E–.03 49–6 4.2b,2.9s
NEIC V 27 12 47 24.6–.47 8.79S 109.59E 35 4.8b,2.9s
ISC Event type se.
IDC Error ellipse: s-maj=29.3km s-min=14.5km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=4.5km az=12.3.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=7.9km az=49.0.
ISC V 28 20 28 54.5–.47 8.88S–.04 108.65E–.03 33–1 5.0b,4.3s 502 1-169
BJI V 28 20 28 52.8 8.80S 108.70E 27 5.2b,4.9b **¶16551393**
ISCJB V 28 20 28 52.9–.18 8.89S–.03 108.60E–.03 33 4.9b,4.2s
MOS V 28 20 28 53.4–.91 8.70S 108.78E 36 5.3b,4.2s
DJA V 28 20 28 54.8–.20 9S–3.0 109E–2.0 10 5.5b,5.3
NEIC V 28 20 28 55.8–.74 8.76S 108.75E 45–6 5.1b,5.3
IDC V 28 20 29 03.9–1.1 8.69S 108.90E 112–9 4.7,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.0km az=42.8.
MOS Error ellipse: s-maj=10.5km s-min=5.9km az=112.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.2km az=222.0.
IDC Error ellipse: s-maj=11.8km s-min=8.3km az=47.0.
ISC V 28 20 47 47.7–.95 7.8S–.20 107.49E–.10 62 3.6b 19 0-144
DJA V 28 20 47 44.2–.70 8S–5.0 107E–2.0 19–7 4.3,4.3 **¶17204653**
ISCJB V 28 20 47 46.1–.80 7.9S–.10 107.44E–.07 62 3.5b,4.3
IDC V 28 20 47 52.1–3.2 7.87S 107.26E 109–22 3.6,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=5.9km az=30.0.
IDC Error ellipse: s-maj=61.9km s-min=16.5km az=54.0.
DJA V 29 13 50 46.8–1.1 9S–6.0 110E–2.0 33–12 3.8,3.8
¶602004417
ISC V 29 16 50 37.6–.70 8.83S–.08 108.82E–.05 27 4.2b,3.2s 31 1-79
IDC V 29 16 50 33.3–1.0 8.77S 108.69E 0 4.1,4.0b **¶16637518**
NEIC V 29 16 50 34.5–.46 8.88S 108.60E 10 4.4b,4.0b
DJA V 29 16 50 35.1–.40 9S–3.0 108E–2.0 10 4.2,4.2
ISC Event type se.
NEIC Event type se.
DJA VI 01 10 25 33.3–1.7 8S–17 109E–4.0 33–15 3.6,3.6
¶602004441
ISC VI 01 15 06 15.3–.94 7.4S–.20 107.0E–.10 63 3.6b 19 0-144
DJA VI 01 15 06 14.3–.60 8S–5.0 107E–3.0 20–7 4.6,4.6b **¶17204901**
IDC VI 01 15 06 20.9–2.8 7.32S 106.96E 121–19 3.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=68.5km s-min=15.0km az=50.0.
DJA VI 02 02 35 29.7–1.0 9S–5.0 110E–2.0 39–9 3.7,3.7
¶602004447
ISC VI 04 03 22 01.2–1.1 7.79S–.09 106.73E–.06 35 3.6b 19 1-144
ISCJB VI 04 03 21 58.8–.81 7.99S–.07 106.64E–.05 33 3.5b **¶17205154**
DJA VI 04 03 22 00.2–1.1 8S–8.0 107E–4.0 15–8 4.6b,4.3
IDC VI 04 03 22 03.8–5.0 7.64S 106.52E 103–39 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.7km az=27.8.
IDC Error ellipse: s-maj=64.0km s-min=21.9km az=54.0.
DJA VI 05 00 45 42.3–.50 6S–4.0 107E–2.0 13–4 3.5,3.5
¶602004468
ISC VI 05 07 42 20.4–1.0 7.91S–.10 107.26E–.06 67–8 4.0b 139 1-152
IDC VI 05 07 42 12.0–.60 7.70S 107.25E 0 4.1,4.1 **¶16856368**
NEIC VI 05 07 42 16.8–.48 8.02S 106.97E 35 4.0b,4.1
DJA VI 05 07 42 19.1–.60 8S–4.0 107E–2.0 21–6 5.6b,5.1
ISCJB VI 05 07 42 20.2–.58 7.84S–.09 107.30E–.04 81–5 3.9b,5.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 05 14 02 10.6–.90 7.56S–.08 109.65E–.03 35 3.7b 30 1-38
IDC VI 05 14 02 06.2–3.5 7.86S 109.45E 0 4.0,3.8 **¶16856391**
NEIC VI 05 14 02 06.7–1.1 7.42S 109.60E 10 3.7b,3.8
DJA VI 05 14 02 07.7–.20 8S–4.0 110E–1.0 10 3.8,3.8
ISCJB VI 05 14 02 08.8–.38 7.53S–.08 109.69E–.03 33 3.6b,3.8
ISC Event type fe.
NEIC Event type fe. Felt [III] at Banjarnegara and Kebumen.
ISCJB Event type fe.
ISC VI 05 17 54 53.9–1.0 8.9S–.10 109.63E–.05 35 3.5b 28 1-61
IDC VI 05 17 54 48.4–2.5 8.76S 109.63E 0 3.8,3.7 **¶17205349**
ISCJB VI 05 17 54 52.0–.61 8.94S–.07 109.60E–.03 33 3.5b,3.7
DJA VI 05 17 54 54.0–1.5 9S–5.0 110E–2.0 35–17 4.1b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 05 19 11 01.7–1.5 7.45S–.06 109.72E–.03 4–11 3.7b 43 1-59
IDC VI 05 19 11 02.2–.93 7.19S 110.05E 0 3.9,3.9L **¶17205352**
DJA VI 05 19 11 03.4–.20 7S–2.0 110E–1.0 10 4.9b,4.2b
ISC Event type ke.
ISC VI 09 17 50 22.1–.63 8.81S–.07 113.81E–.04 95–5 4.0b 45 0-155
ISCJB VI 09 17 50 21.3–.45 8.85S–.07 113.75E–.04 101–5 4.0b **¶16856794**
NEIC VI 09 17 50 21.7–.90 8.75S 113.74E 98–9 4.2b
DJA VI 09 17 50 23.4–.30 9S–4.0 114E–2.0 53–5 5.5b,5.0
IDC VI 09 17 50 23.1–1.4 8.68S 113.84E 107–11 4.3,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=5.9km az=14.2.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=11.2km az=217.0.
IDC Error ellipse: s-maj=31.6km s-min=13.8km az=63.0.
DJA VI 10 07 15 55.6–.70 8S–4.0 107E–3.0 21–8 4.0,4.0
¶602004504
ISC VI 11 20 23 12.1–.35 6.76S–.05 106.33E–.05 35 4.5b,3.5s 199 0-156
IDC VI 11 20 23 06.4–.45 6.59S 106.37E 0 4.4,4.3 **¶16591635**
NEIC VI 11 20 23 08.5–.52 6.62S 106.34E 14–3 4.7b,4.3
ISCJB VI 11 20 23 09.9–.24 6.72S–.04 106.33E–.03 33 4.5b,3.5s
MOS VI 11 20 23 10.4–1.3 6.47S 106.51E 33 4.9b,3.5s
DJA VI 11 20 23 10.1–.30 7S–4.0 106E–3.0 10 5.7b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [II] at Banten, Cisarua, Lebak and Sukabumi. Also felt at Curug and Jakarta.
ISCJB Event type fe.
ISC VI 12 02 21 40.9–3.6 7.01S–.08 106.24E–.05 4–26 3.9b 18 0-41
ISCJB VI 12 02 21 41.4–1.3 7.04S–.07 106.23E–.05 14–9 3.8b,2.9s **¶17205810**
DJA VI 12 02 21 41.9–.30 7S–4.0 106E–2.0 10 4.3,4.3
IDC VI 12 02 21 58.4–42 7.84S 108.29E 0 4.1,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=5.1km az=27.3.
IDC Error ellipse: s-maj=722.2km s-min=177.9km az=132.0.
ISC VI 13 03 17 00.5–.54 8.89S–.08 112.46E–.05 71 4.2b 52 1-155
IDC VI 13 03 16 51.3–.69 8.50S 112.44E 0 4.3,4.2 **¶16684526**
ISCJB VI 13 03 17 00.0–.41 8.94S–.06 112.44E–.03 71 4.1b,4.2
NEIC VI 13 03 17 00.9–.74 8.72S 112.46E 76–7 4.2b,4.2
DJA VI 13 03 17 02.7–.70 9S–5.0 112E–2.0 37–7 6.2b,5.8
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Blitar and [II] at Karangkates and Tulungagung.
ISC VI 13 15 46 35.2–.36 8.18S–.05 110.68E–.04 150 4.6b 156 0-146
BJI VI 13 15 46 33.6 8.10S 110.70E 152 4.9b,4.6b **¶16593463**
ISCJB VI 13 15 46 34.0–.22 8.03S–.04 110.74E–.03 150 4.5b,4.6b
MOS VI 13 15 46 34.3–.77 7.90S 110.80E 154 4.8b,4.6b
KLM VI 13 15 46 34.5 8.43S 110.88E 169 6.4s,4.6b
NEIC VI 13 15 46 35.6–.42 8.04S 110.73E 152–3 4.7b,4.6b
IDC VI 13 15 46 36.1–5.9 7.94S 110.80E 154–55 4.6,4.3
DJA VI 13 15 46 37.3–.20 8S–4.0 111E–2.0 125–2 5.7b,5.2
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Bantul, Gunungkidul, Pacitan and Yogyakarta.
ISC VI 15 02 34 20.9–.80 7.67S–.08 107.20E–.04 62–6 4.4b 100 0-154
IDC VI 15 02 34 12.8–.47 7.49S 107.16E 0 4.5,4.4b **¶16713159**
NEIC VI 15 02 34 18.0–.87 7.65S 106.97E 37–8 4.8b,4.4b
DJA VI 15 02 34 18.0–.60 8S–2.0 107E–2.0 12–4 5.0b,4.9
ISCJB VI 15 02 34 20.7–.44 7.56S–.06 107.21E–.04 75–3 4.3b,4.9
ISC Event type fe.
NEIC Event type fe. Felt [II] at Sindangbarang.
ISCJB Event type fe.
DJA VI 15 03 47 18.9–.30 7S–3.0 106E–2.0 10 4.0,4.0
¶602004553
DJA VI 15 11 44 33.2–.50 9S–9.0 113E–2.0 61–10 3.9,3.9
¶602004564
ISC VI 15 15 06 10.5–.94 8.98S–.07 111.18E–.05 35 3.8b 21 1-61
IDC VI 15 15 06 07.1–2.3 7.69S 112.41E 0 3.9,3.8 **¶17206191**
ISCJB VI 15 15 06 10.0–.62 9.06S–.05 111.19E–.05 35 3.7b,3.8
DJA VI 15 15 06 10.8–.90 9S–5.0 111E–2.0 17–8 4.2,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC VI 18 15 42 15.5–1.1 8.8S–.10 113.04E–.04 63 3.5b 21 1-62
IDC VI 18 15 42 07.2–2.5 8.97S 112.81E 0 3.9s,3.9 **¶17206470**
DJA VI 18 15 42 13.0–.80 9S–4.0 113E–2.0 10–7 5.1b,5.0b
ISCJB VI 18 15 42 14.1–.61 8.88S–.07 113.03E–.04 63 3.5b,5.0b
ISC Event type ke.
ISCJB Event type ke.
DJA VI 19 00 26 16.9–1.1 8S–6.0 107E–4.0 20–7 3.9,3.9
¶602004591
ISC VI 21 22 43 11.3–.44 6.40S–.05 107.38E–.05 185–3 4.4b 201 1-157
DJA VI 21 22 43 09.9–.30 7S–5.0 107E–3.0 204–4 5.3b,5.2b **¶16731175**
ISCJB VI 21 22 43 10.3–.25 6.39S–.04 107.41E–.03 192–2 4.4b,5.2b
KLM VI 21 22 43 10.9 6.75S 107.29E 196 5.4s,4.7b
NEIC VI 21 22 43 11.4–.42 6.34S 107.47E 185–3 4.5b,4.7b
IDC VI 21 22 43 12.0–.63 6.34S 107.45E 189–5 4.6,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.5km az=40.6.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.2km az=51.0.
IDC Error ellipse: s-maj=13.3km s-min=6.8km az=55.0.
DJA VI 28 21 20 34.7–.90 8S–45 111E–9.0 257–9 4.1b,3.3
¶602004662
IDC VI 30 20 36 33.1–45 7.43S 109.59E 0 3.8,3.6
¶17207274
IDC Error ellipse: s-maj=762.9km s-min=175.6km az=131.0.
DJA VI 30 21 33 14.5–1.8 8S–12 107E–5.0 27–10 3.6,3.6
¶602004681

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ISC I 06 10 22 59.5–.57 6.76S–.08 116.14E–.08 550 3.7b 43 2-126
DJA I 06 10 22 59.6–.60 7S–7.0 116E–4.0 582–9 4.8b,4.4b **¶17189588**
ISCJB I 06 10 23 00.3–.39 6.71S–.07 116.23E–.06 550 3.6b,4.4b
IDC I 06 10 23 01.6–1.8 6.59S 116.34E 578–17 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.3km az=171.4.
IDC Error ellipse: s-maj=46.2km s-min=8.5km az=54.0.
ISC I 07 20 38 56.3–.71 7.97S–.05 117.85E–.05 35 3.9s,3.8b 36 1-95
IDC I 07 20 38 51.6–1.1 7.96S 117.95E 0 4.0L,3.9 **¶16021268**
NEIC I 07 20 38 52.9–.44 8.00S 117.91E 10 4.6b,3.9
ISCJB I 07 20 38 54.3–.34 7.96S–.04 117.88E–.03 33 4.0b,3.7s
DJA I 07 20 38 54.8–1.2 8S–3.0 118E–2.0 18–16 4.8b,4.6b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 09 08 46 38.8–2.8 7.84S 116.42E 0 3.6,3.5
¶17189744
IDC Error ellipse: s-maj=165.3km s-min=22.3km az=53.0.
ISC I 19 21 18 27.0–1.1 7.95S–.07 116.28E–.04 35 3.2b 17 1-62
IDC I 19 21 18 20.4–3.8 8.34S 115.33E 0 3.8s,3.8 **¶17190579**
ISCJB I 19 21 18 24.3–.62 7.81S–.06 116.30E–.04 33 3.8s,3.4b
DJA I 19 21 18 24.9–.60 8S–5.0 116E–2.0 28–8 3.3,3.3
ISC Event type ke.
ISCJB Event type ke.
IDC I 24 12 56 33.7–7.8 7.36S 115.38E 474–103 3.8,3.1
¶17190892
IDC Error ellipse: s-maj=95.2km s-min=25.3km az=60.0.
ISC I 30 16 37 35.6–.58 7.23S–.07 117.16E–.07 600–7 3.8b 103 2-146
BJI I 30 16 37 31.7 7.77S 116.49E 601 4.5b,4.2b **¶15990266**
ISCJB I 30 16 37 35.1–.24 7.20S–.05 117.18E–.04 616–3 4.0b,4.2b
NEIC I 30 16 37 35.7–.39 7.14S 117.21E 601–6 4.3b,4.2b
IDC I 30 16 37 36.2–.96 7.08S 117.18E 607–13 4.5,3.6
DJA I 30 16 37 37.3–.20 7S–3.0 117E–4.0 592–4 4.8b,4.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 18 08 48 49.6–1.8 7.87S 117.39E 0 3.6L,3.3
¶17192467
IDC Error ellipse: s-maj=31.4km s-min=22.2km az=103.0.
IDC III 02 01 07 02.4–2.4 7.94S 114.92E 0 3.9,3.7
¶17193103
IDC Error ellipse: s-maj=135.5km s-min=19.8km az=54.0.
ISC III 05 19 34 21.1–.84 7.5S–.10 116.84E–.07 302 3.3b 27 1-62
ISCJB III 05 19 34 20.6–.55 7.53S–.09 116.81E–.05 302 3.5b **¶17193308**
DJA III 05 19 34 22.8–.40 8S–16 117E–4.0 315–5 4.8b,4.4b
IDC III 05 19 34 24.1–3.9 7.34S 117.13E 320–39 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=5.6km az=14.7.
IDC Error ellipse: s-maj=78.7km s-min=13.5km az=56.0.
ISC III 10 17 08 37.3–.19 6.86S–.02 116.73E–.02 519–1 6.2b 2684 2-173
MOS III 10 17 08 35.4–.89 6.81S 116.80E 506 6.3b,5.7s **¶16298996**
BJI III 10 17 08 36.4 6.85S 116.75E 520 6.2b,5.9b
GCMT III 10 17 08 36.9–.10 6.95S 116.71E 517–0 6.6W,5.9b
NEIC III 10 17 08 36.9–.28 6.87S 116.72E 511–3 6.5W,6.2b
DJA III 10 17 08 36.6–.10 7S–2.0 117E–1.0 519–2 7.0,6.4b
ISCJB III 10 17 08 36.4–.15 6.91S–.02 116.78E–.01 522–1 6.1b,6.4b
NEIC III 10 17 08 36.0–.00 7.10S 116.79E 510 6.1b,6.4b
IDC III 10 17 08 37.2–.27 6.82S 116.81E 511–2 6.5,5.6
ISC Event type fe.
MOS Error ellipse: s-maj=6.7km s-min=4.7km az=113.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to mantle waves, cutoff=125s. Moment Tensor Solution. s147,c381; s140,c260; Duration: 4‡8 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.92±.00 $M_{\theta\theta}$0.94±.01; $M_{\phi\phi}$-0.02±.01; $M_{r\theta}$-0.19±.01; $M_{\theta\phi}$-0.10±.01; $M_{\phi r}$-0.18±.01; Best double couple: NP1:ϕ_s84.00000°,δ51.00000° ,λ-105.00000°. NP2:ϕ_s288.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 0.9700,Plg5.0000°,Azm185.0000°; N 0.0040,Plg12.0000°,Azm94.0000° ; P -0.9740,Plg77.0000°,Azm298.0000° $M_0$0.97200×10^{19}
NEIC Event type fe. Error ellipse: s-maj=3.9km s-min=3.1km az=217.0. Felt [IV] at Denpasar and [III] at Kuta, Tabanan and Ubud, Bali. Also felt at Karangasem and Singaraja. Felt [III] at Mataram, Lombok. Felt at Blitar, Jember and Sidoarjo, Java. Depth from broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s265.00000°,δ40.00000° ,λ-90.00000°. NP2:ϕ_s85.00000°,δ50.00000°,λ-90.00000°. Principal axes: T Plg5.0000° ,Azm175.0000°; N Plg0.0000°,Azm0.0000°; P Plg85.0000°,Azm355.0000°
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=34.7.
NEIC Event type se. Moment Tensor Solution. s62 Moment tensor: Scale 10^{18}Nm; M_{rr}-7.92 $M_{\theta\theta}$7.94 $M_{\phi\phi}$-0.02 $M_{r\theta}$-1.63 $M_{\theta\phi}$-0.43 $M_{\phi r}$-1.61 Best double couple: NP1:ϕ_s82.00000° ,δ52.00000°,λ-104.00000°. NP2:ϕ_s284.00000°,δ41.00000°,λ-72.00000°. Principal axes: T 8.1100,Plg5.0000°,Azm181.0000°; N 0.2900,Plg11.0000°,Azm90.0000° ; P -8.4100,Plg77.0000°,Azm297.0000° $M_0$8.30000×10^{18}
IDC Error ellipse: s-maj=5.3km s-min=4.4km az=47.0.

ISC III 31 23 02 40.5–.62 7.82S–.07 115.44E–.05 35 3.9b 17 1-70
IDC III 31 23 02 35.7–1.2 7.74S 115.22E 0 3.9,3.9L ¶16476036
NEIC III 31 23 02 37.8–.49 7.76S 115.34E 10 4.2b,3.9L
ISCJB III 31 23 02 38.9–.51 7.65S–.06 115.42E–.05 33 3.8b,3.9L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 11 20 28 07.4–1.8 7.69S 117.53E 0 3.1,3.1
¶17200677
IDC Error ellipse: s-maj=53.0km s-min=25.1km az=57.0.
IDC IV 18 14 28 33.6–1.9 7.88S 117.57E 0 3.3,3.3L
¶602004034
IDC Error ellipse: s-maj=41.9km s-min=25.5km az=66.0.
IDC IV 22 06 46 55.4–7.5 6.77S 115.12E 545–89 3.7,2.9
¶17201794
IDC Error ellipse: s-maj=125.0km s-min=19.0km az=61.0.
ISC IV 26 00 41 14.6–1.0 7.1S–.20 117.2E–.30 611 3.7b 10 3-116
ISCJB IV 26 00 41 13.1–.93 7.1S–.20 117.1E–.20 611 3.6b ¶17202095
IDC IV 26 00 41 14.5–1.6 7.04S 117.19E 609–22 4.0,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.5km s-min=14.4km az=154.2.
IDC Error ellipse: s-maj=40.8km s-min=14.1km az=65.0.
DJA IV 28 04 20 31.7–.30 8S–3.0 116E–2.0 10 3.7,3.7
¶602004120
ISC VI 17 17 59 03.1–.30 7.78S–.04 117.38E–.04 300 4.3b 163 1-153
BJI VI 17 17 58 55.0 8.62S 117.69E 303 4.5b,4.4b ¶16730816
ISCJB VI 17 17 59 01.8–.17 7.75S–.03 117.41E–.03 300 4.4b,4.4b
NEIC VI 17 17 59 02.9–.43 7.72S 117.36E 296–4 4.5b,4.4b
DJA VI 17 17 59 03.7–.30 8S–4.0 117E–2.0 276–4 5.2b,5.0
IDC VI 17 17 59 03.6–1.8 7.67S 117.32E 302–18 4.6,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=3.1km az=34.6.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.8km az=49.0.
IDC Error ellipse: s-maj=13.0km s-min=6.7km az=71.0.
ISC VI 19 03 01 31.0–1.5 7.0S–.20 117.0E–.30 500 3.3b 9 3-66
ISCJB VI 19 03 01 29.5–1.2 7.0S–.20 116.9E–.30 500 3.2b ¶17206505
IDC VI 19 03 01 31.8–2.3 6.96S 117.02E 509–21 3.6,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.3km s-min=12.3km az=150.6.
IDC Error ellipse: s-maj=53.9km s-min=12.5km az=59.0.

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ISC I 01 01 49 12.0–.85 7.53S–.10 120.4E–.10 500 3.6b 27 1-68
ISCJB I 01 01 49 11.7–.41 7.55S–.06 120.45E–.08 500 3.5b ¶17189100
DJA I 01 01 49 11.6–.80 8S–5.0 120E–6.0 513–10 4.5b,4.1b
IDC I 01 01 49 12.3–1.3 7.44S 120.54E 513–8 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.8km az=167.8.
IDC Error ellipse: s-maj=99.7km s-min=11.1km az=61.0.
IDC I 02 18 28 06.5–7.8 7.59S 119.44E 295–91 3.5,2.9
¶17189231
IDC Error ellipse: s-maj=138.0km s-min=32.5km az=53.0.
ISC I 04 09 38 00.3–1.2 7.0S–.40 121.0E–.70 400 5 1-64
IDC I 04 09 38 01.8–5.4 7.36S 120.09E 502–79 3.8,3.0 ¶17189408
DJA I 04 09 38 23.0–.30 6S–3.0 118E–4.0 100 3.7,3.7
ISC Event type ke.
IDC I 10 00 50 10.1–1.7 7.41S 119.88E 572–18 3.8,3.0
¶17189803
IDC Error ellipse: s-maj=98.7km s-min=13.0km az=59.0.
DJA I 11 12 29 39.0–.30 7S–4.0 118E–4.0 10 4.1,4.1
¶601989168
ISC I 12 01 39 45.1–.70 7.79S–.05 118.98E–.05 34 4.2b 30 2-77
IDC I 12 01 39 40.1–1.1 7.88S 118.80E 0 4.2s,4.2 ¶16002288
DJA I 12 01 39 42.6–.30 8S–4.0 119E–3.0 10 4.6b,4.4
ISCJB I 12 01 39 43.4–.40 7.80S–.04 118.98E–.04 34 4.2s,4.1b
NEIC I 12 01 39 44.1–5.9 7.80S 118.97E 26–41 4.2b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=42.7km s-min=16.9km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.5km az=37.1.
NEIC Event type se. Error ellipse: s-maj=31.3km s-min=6.8km az=61.0.
ISC I 15 16 29 08.1–.95 7.07S–.10 121.9E–.20 10 4.2b 13 2-68
IDC I 15 16 29 06.8–1.3 6.87S 122.22E 0 5.1,5.1s ¶17190267
ISC Event type ke.
IDC Error ellipse: s-maj=111.9km s-min=21.7km az=53.0.
DJA I 18 06 29 41.1–1.0 8S–8.0 123E–4.0 10 4.4,4.3
¶601989546
ISC I 21 00 36 10.5–.99 7.39S–.07 121.1E–.10 10 10 1-64
IDC I 21 00 36 09.3–1.7 7.40S 121.04E 0 3.6,3.4 ¶17190651
DJA I 21 00 36 36.0–.40 9S–9.0 121E–4.0 145–8 4.4b,3.8
ISC Event type ke.
IDC II 06 10 53 03.9–2.1 7.61S 122.73E 0 3.5,3.5b
¶17191789
IDC Error ellipse: s-maj=301.7km s-min=30.3km az=56.0.
ISC II 09 20 20 27.0–.56 7.51S–.07 121.0E–.10 550 3.6b 46 1-146
ISCJB II 09 20 20 27.8–.35 7.59S–.05 121.00E–.07 550 3.6b ¶17191958
IDC II 09 20 20 28.2–.74 7.34S 121.11E 566–8 4.1,3.3
DJA II 09 20 20 29.0–.40 8S–4.0 121E–4.0 546–5 4.6b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC II 11 06 53 19.1–.90 7.73S–.06 118.78E–.08 35 3.9b 16 1-68
IDC II 11 06 53 14.8–1.4 7.72S 118.66E 0 3.6,3.5 ¶17192055
DJA II 11 06 53 16.5–1.1 8S–4.0 119E–4.0 12–9 3.9,3.9
ISCJB II 11 06 53 17.4–.50 7.72S–.05 118.79E–.06 33 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC II 16 14 48 09.1–1.9 7.30S 122.12E 262–19 3.3,2.8
¶17192370
IDC Error ellipse: s-maj=99.5km s-min=20.6km az=65.0.
ISC II 20 17 52 53.4–.38 7.99S–.03 122.85E–.03 230–3 5.0b 682 1-165
BJI II 20 17 52 47.3 8.43S 123.25E 231 4.9b,4.8b ¶16033742
MOS II 20 17 52 48.7–.96 7.81S 122.81E 194 5.3b,4.8b
KLM II 20 17 52 52.9 7.96S 122.87E 223 6.1s,5.6L
NEIC II 20 17 52 52.8–.50 7.89S 122.84E 224–5 5.1b,5.6L
GCMT II 20 17 52 52.8–.30 7.95S 122.97E 232–2 5.1W,5.6L
ISCJB II 20 17 52 53.2–.22 7.94S–.02 122.83E–.02 240–2 4.9b,5.6L
IDC II 20 17 52 54.5–.92 7.87S 122.81E 236–8 5.2,4.7
DJA II 20 17 52 55.1–.10 8S–2.0 123E–1.0 224–2 5.5,5.3b
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c47; s87,c123;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.82±.16 $M_{\theta\theta}$-2.74±.16; $M_{\phi\phi}$-0.08±.18; $M_{r\theta}$3.97±.14; $M_{\theta\phi}$-1.49±.16; $M_{\phi r}$0.59±.16; Best double couple: NP1:ϕ_s79.00000°,δ72.00000°,λ100.00000°. NP2:ϕ_s230.00000°,δ21.00000°,λ62.00000°. Principal axes: T 4.8930,Plg62.0000°,Azm4.0000°; N 0.4000,Plg10.0000°,Azm256.0000° ; P -5.2930,Plg26.0000°,Azm161.0000° M_o5.09300×10^{16}
ISCJB Event type se.
ISC II 21 20 22 31.2–.54 7.33S–.08 121.09E–.10 550 3.8b 51 1-120
ISCJB II 21 20 22 30.0–.30 7.32S–.05 121.06E–.06 550 3.8b ¶17192659
DJA II 21 20 22 29.7–.60 7S–5.0 121E–5.0 560–9 4.6b,4.3
IDC II 21 20 22 31.2–.99 7.25S 121.22E 545–12 4.2,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=147.3.
IDC Error ellipse: s-maj=23.4km s-min=7.7km az=57.0.
ISC III 03 22 14 31.5–.55 7.93S–.05 118.33E–.06 35 4.1b 44 2-88
IDC III 03 22 14 26.3–.93 7.96S 118.12E 0 4.1,4.0 ¶16392100
NEIC III 03 22 14 29.9–2.3 7.92S 118.24E 23–18 4.2b,4.0
ISCJB III 03 22 14 29.5–.35 7.92S–.04 118.35E–.04 33 4.1b,4.0
DJA III 03 22 14 30.9–.80 8S–11 118E–9.0 50–20 4.6b,4.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 10 19 59 25.6–2.3 7.23S 120.24E 401–18 3.9,3.3
¶17193653
IDC Error ellipse: s-maj=149.9km s-min=14.9km az=56.0.
ISC III 14 09 21 03.7–.43 7.43S–.05 120.19E–.06 564–4 4.6b 194 1-155
BJI III 14 09 21 02.8 7.30S 120.30E 562 4.8b,4.7b ¶16314286
NEIC III 14 09 21 03.7–.26 7.33S 120.20E 564–3 4.7b,4.7b
ISCJB III 14 09 21 03.1–.21 7.35S–.04 120.23E–.04 576–3 4.6b,4.7b
DJA III 14 09 21 04.1–.10 7S–3.0 120E–2.0 570–3 5.2b,5.0
IDC III 14 09 21 04.3–.46 7.27S 120.24E 569–5 5.0,4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.0km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.6km az=136.3.
IDC Error ellipse: s-maj=11.9km s-min=6.3km az=64.0.
IDC III 14 09 54 14.8–25 7.36S 119.79E 450–334 3.4,2.7
¶17195129
IDC Error ellipse: s-maj=165.8km s-min=53.1km az=75.0.
IDC III 23 04 37 37.7–1.6 7.18S 121.41E 219–13 3.8,3.5b
¶17198126
IDC Error ellipse: s-maj=117.5km s-min=16.3km az=53.0.
IDC III 27 13 57 56.7–1.4 7.45S 119.92E 545–16 3.6,2.8
¶17198796
IDC Error ellipse: s-maj=73.1km s-min=14.6km az=57.0.
IDC III 28 21 18 01.4–1.2 7.11S 120.60E 546–7 3.9,3.1
¶17198993
IDC Error ellipse: s-maj=100.3km s-min=11.2km az=58.0.
IDC IV 03 18 21 11.5–16 6.22S 119.24E 0 3.6,3.4
¶17199684
IDC Error ellipse: s-maj=310.8km s-min=203.3km az=14.0.
ISC IV 04 08 36 32.1–1.3 6.9S–.60 121.0E–1.0 576 8 2-64
IDC IV 04 08 36 31.1–1.4 7.16S 120.48E 543–14 3.8,3.1 ¶17199750
ISC Event type ke.
IDC Error ellipse: s-maj=116.1km s-min=15.4km az=56.0.
ISC IV 06 11 36 24.4–1.2 7.2S–.10 119.68E–.09 35 3.8b 11 2-63
ISCJB IV 06 11 36 23.4–1.0 7.1S–.10 119.59E–.06 33 4.1s,3.9b ¶17200000
IDC IV 06 11 36 33.7–6.1 8.14S 118.70E 142–65 4.2s,4.2
DJA IV 06 11 36 49.0–.80 8S–6.0 118E–5.0 10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 13 22 35 16.0–2.7 7.72S 119.17E 256–23 3.9,3.5b
¶17200957
IDC Error ellipse: s-maj=72.1km s-min=14.0km az=57.0.
ISC IV 17 17 03 12.8–.67 7.6S–.20 119.8E–.30 550 3.6b 17 3-73
IDC IV 17 17 03 14.1–.74 7.20S 120.40E 573–8 4.1,3.3 ¶17201345
ISC Event type ke.
IDC Error ellipse: s-maj=49.0km s-min=9.5km az=60.0.
ISC IV 27 21 04 15.4–1.2 7.74S–.08 119.1E–.20 35 3.9b 9 3-73
IDC IV 27 21 04 10.0–1.0 7.77S 118.91E 0 3.8,3.7b ¶17202258
ISCJB IV 27 21 04 12.9–.95 7.78S–.06 119.1E–.20 33 3.7s,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC V 11 20 36 50.9–1.5 7.85S 122.38E 0 3.8,3.6
¶17203433
IDC Error ellipse: s-maj=128.1km s-min=22.2km az=57.0.
IDC V 16 20 27 57.8–3.2 7.38S 123.00E 553–44 3.7,3.0b
¶17203770
IDC Error ellipse: s-maj=50.4km s-min=18.2km az=75.0.
IDC V 26 18 27 34.8–1.8 7.60S 118.46E 0 3.6,3.5L
¶17204524
IDC Error ellipse: s-maj=45.8km s-min=23.4km az=71.0.
IDC V 26 19 46 07.1–4.3 7.97S 121.09E 219–85 3.3,3.3b
¶17204528
IDC Error ellipse: s-maj=124.1km s-min=58.0km az=39.0.
IDC V 26 20 28 09.2–1.1 7.92S 122.19E 0 4.0b,4.0
¶17204530
IDC Error ellipse: s-maj=107.9km s-min=17.3km az=56.0.
ISC VI 08 16 50 29.9–1.4 7.3S–.10 119.6E–.10 250 14 2-63
ISCJB VI 08 16 50 28.4–.87 7.24S–.09 119.52E–.06 250 3.4b ¶17205562
DJA VI 08 16 50 31.0–2.5 7S–7.0 119E–2.0 22–34 4.6,4.6
IDC VI 08 16 50 32.4–2.9 7.20S 119.93E 281–31 3.5,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=6.7km az=25.8.
IDC Error ellipse: s-maj=89.5km s-min=13.1km az=53.0.
ISC VI 11 13 50 53.8–.59 7.81S–.04 118.90E–.04 34 4.3b 38 2-77
IDC VI 11 13 50 49.2–.73 7.69S 118.95E 0 4.3,4.1 ¶16856960
NEIC VI 11 13 50 50.5–.45 7.78S 118.90E 10 4.0b,4.1
ISCJB VI 11 13 50 51.9–.34 7.81S–.03 118.92E–.03 34 4.1b,4.1
DJA VI 11 13 50 52.9–1.8 8S–3.0 119E–3.0 26–22 4.9b,4.6b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 19 09 25 45.9–1.9 7.49S 120.38E 0 3.9,3.7
¶17206519
IDC Error ellipse: s-maj=113.3km s-min=20.0km az=62.0.
ISC VI 24 14 12 43.1–.90 7.86S–.04 119.12E–.06 34 17 2-64
IDC VI 24 14 12 38.9–1.7 7.95S 118.96E 0 3.5,3.3 ¶17206875
ISCJB VI 24 14 12 42.5–.63 7.89S–.05 119.10E–.06 34 3.3b,3.3
DJA VI 24 14 12 43.5–3.2 8S–4.0 119E–5.0 23–43 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC VI 24 18 29 33.7–3.1 7.91S 120.00E 176–27 3.3,2.9
¶17206885
IDC Error ellipse: s-maj=139.3km s-min=21.3km az=55.0.

(280) Banda Sea.

IDC I 01 00 39 38.6–3.0 7.71S 127.42E 138–33 4.1,3.8
¶17189096
IDC Error ellipse: s-maj=42.2km s-min=14.9km az=87.0.
IDC I 01 17 15 20.6–2.3 6.62S 129.56E 0 3.4b,3.2
¶17189149
IDC Error ellipse: s-maj=150.0km s-min=32.1km az=68.0.
IDC I 01 22 19 29.7–1.8 6.36S 129.52E 0 3.9,3.8
¶17189164
IDC Error ellipse: s-maj=149.9km s-min=28.6km az=70.0.
ISC I 02 03 11 55.7–.71 7.46S–.07 129.1E–.20 131 3.6b 14 7-151
ISCJB I 02 03 11 54.6–.61 7.36S–.06 129.0E–.20 131 3.6b ¶17189181
IDC I 02 03 11 56.9–2.5 7.33S 129.04E 138–25 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=7.8km az=169.9.
IDC Error ellipse: s-maj=35.4km s-min=15.0km az=76.0.
IDC I 02 07 56 50.6–6.2 6.42S 129.27E 216–84 3.4,2.9
¶17189196
IDC Error ellipse: s-maj=155.6km s-min=19.0km az=80.0.
ISC I 03 16 11 58.8–.61 7.22S–.06 127.67E–.07 315 3.3b 38 3-127
DJA I 03 16 11 54.6–.60 7S–5.0 128E–5.0 365–13 4.8b,4.4b ¶17189337
ISCJB I 03 16 11 57.7–.35 7.18S–.04 127.67E–.05 315 3.4b,4.4b
IDC I 03 16 11 57.7–1.7 7.10S 127.63E 294–18 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.9km az=0.5.
IDC Error ellipse: s-maj=26.6km s-min=11.0km az=81.0.
IDC I 04 10 42 41.2–2.8 5.27S 129.07E 234–40 4.1,3.5
¶17189415
IDC Error ellipse: s-maj=65.5km s-min=15.3km az=86.0.
ISC I 04 16 59 17.2–.00 6.22S–.09 130.56E–.08 124 14 2-68
ISCJB I 04 16 59 16.3–.54 6.27S–.05 130.56E–.09 124 3.8b ¶17189440
IDC I 04 16 59 16.3–2.7 6.20S 130.44E 112–35 4.1,3.9
DJA I 04 16 59 35.5–.50 5S–4.0 131E–4.0 40–13 4.3b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 04 17 23 42.2–10 7.52S 127.59E 147–118 3.8L,3.7s
¶17189441
IDC Error ellipse: s-maj=145.8km s-min=21.5km az=85.0.

IDC I 04 20 22 47.0–2.1 5.57S 131.37E 0 3.4,3.3
¶17189453

IDC Error ellipse: s-maj=96.8km s-min=24.9km az=84.0.
IDC I 04 23 23 18.3–2.1 7.10S 126.87E 0 3.6,3.3
¶17189461

IDC Error ellipse: s-maj=288.8km s-min=30.5km az=63.0.
ISC I 05 02 01 45.9–.44 7.26S–.05 125.09E–.06 550 4.0b 86 3-147
ISCJB I 05 02 01 44.2–.28 7.27S–.04 125.13E–.04 550 4.0b **¶17189472**
IDC I 05 02 01 44.9–.86 7.18S 125.11E 530–10 4.5,3.6
DJA I 05 02 01 44.8–.20 7S–3.0 125E–2.0 527–3 4.9b,4.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 05 05 00 19.4–1.8 6.60S 129.92E 0 4.0L,3.9
¶17189479

IDC Error ellipse: s-maj=108.1km s-min=30.1km az=71.0.
IDC I 05 09 58 55.9–1.9 6.70S 130.00E 0 4.0L,3.9
¶17189499

IDC Error ellipse: s-maj=233.5km s-min=22.1km az=66.0.
IDC I 06 01 37 17.8–2.2 7.40S 127.30E 0 4.2,4.2L
¶17189559

IDC Error ellipse: s-maj=276.0km s-min=31.5km az=63.0.
ISC I 06 02 10 48.7–.66 7.65S–.07 129.33E–.09 150 3.9b 24 2-151
ISCJB I 06 02 10 47.8–.45 7.54S–.04 129.34E–.07 150 3.9b **¶17189562**
IDC I 06 02 10 48.1–2.0 7.29S 129.29E 132–19 4.2,3.9
DJA I 06 02 10 51.0–.30 7S–4.0 129E–4.0 122–9 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 07 11 46 00.3–.56 6.60S–.05 130.16E–.06 146 4.1b 40 2-151
ISCJB I 07 11 45 59.8–.39 6.59S–.03 130.26E–.05 146 4.0b **¶16031129**
NEIC I 07 11 46 00.7–1.1 6.52S 130.04E 150–11 4.7b
IDC I 07 11 46 00.2–2.4 6.51S 129.93E 143–23 4.3,3.9
DJA I 07 11 46 03.0–.50 6S–5.0 130E–3.0 125–11 5.0b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 07 22 18 07.2–2.9 7.35S 128.82E 144–41 3.6,3.2
¶17189662

IDC Error ellipse: s-maj=66.8km s-min=16.8km az=94.0.
ISC I 08 03 56 16.6–.81 6.31S–.06 128.5E–.10 334 3.5b 13 6-147
ISCJB I 08 03 56 15.7–.68 6.25S–.05 128.4E–.10 334 3.3b **¶17189668**
IDC I 08 03 56 17.2–2.1 6.26S 128.60E 341–25 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.7km s-min=6.6km az=3.9.
IDC Error ellipse: s-maj=41.3km s-min=9.8km az=77.0.
IDC I 08 19 01 52.9–2.5 5.90S 128.49E 454–47 3.6,2.8
¶17189714

IDC Error ellipse: s-maj=67.4km s-min=17.2km az=77.0.
IDC I 10 05 22 42.0–2.9 5.94S 130.67E 80–36 3.7,3.5
¶17189820

IDC Error ellipse: s-maj=80.4km s-min=22.2km az=88.0.
IDC I 10 09 43 28.0–2.2 6.31S 129.62E 0 3.9,3.9L
¶17189838

IDC Error ellipse: s-maj=83.7km s-min=28.8km az=76.0.
ISC I 10 11 36 48.5–1.4 5.85S–.10 130.80E–.08 86 16 2-68
IDC I 10 11 36 46.8–2.9 6.04S 130.51E 75–37 4.0L,3.9 **¶17189849**
DJA I 10 11 36 56.0–.50 5S–4.0 131E–4.0 64–14 4.4b,4.2
ISC Event type ke.
IDC I 10 15 16 29.0–4.3 7.05S 124.87E 540–54 3.9,3.0
¶17189865

IDC Error ellipse: s-maj=132.6km s-min=24.3km az=57.0.
IDC I 10 20 01 15.1–2.2 7.44S 128.36E 138–21 4.0,3.6
¶17189877

IDC Error ellipse: s-maj=45.3km s-min=16.2km az=79.0.
IDC I 10 21 37 53.8–2.8 7.12S 129.67E 98–37 3.7,3.4
¶17189879

IDC Error ellipse: s-maj=74.3km s-min=22.3km az=91.0.
ISC I 11 00 26 28.9–.41 5.22S–.03 129.99E–.04 195–3 5.0b 445 1-159
BJI I 11 00 26 23.6 5.63S 130.27E 195 5.0b,4.8b **¶15917537**
MOS I 11 00 26 25.9–1.0 5.24S 129.84E 180 5.1b,4.8b
ISCJB I 11 00 26 28.0–.23 5.26S–.02 130.06E–.02 201–2 4.9b,4.8b
IDC I 11 00 26 29.0–1.0 5.26S 129.92E 192–9 5.2,4.7
GCMT I 11 00 26 29.2–.40 5.25S 130.21E 209–4 4.9W,4.7
DJA I 11 00 26 29.6–.20 5S–2.0 130E–1.0 185–4 6.0,5.6b
NEIC I 11 00 26 29.2–.42 5.30S 129.99E 199–4 5.0b,5.6b
ISC Event type se.
MOS Error ellipse: s-maj=11.2km s-min=6.2km az=107.4.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=3.1km az=161.8.
IDC Error ellipse: s-maj=10.7km s-min=7.0km az=85.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s67,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.55±.13 $M_{\theta\theta}$-0.88±.15; $M_{\phi\phi}$2.43±.16; $M_{r\theta}$-2.04±.10; $M_{\theta\phi}$-1.13±.12; $M_{\phi r}$0.51±.12; Best double couple: NP1:ϕ_s128.00000°,δ70.00000° ,λ-130.00000°. NP2:ϕ_s16.00000°,δ44.00000°,λ-29.00000°. Principal axes: T 3.0860,Plg16.0000°,Azm246.0000°; N 0.2180,Plg37.0000°,Azm144.0000° ; P -3.3040,Plg48.0000°,Azm355.0000° $M_0$3.19500×10^{16}
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.5km az=65.0.
ISC I 11 02 31 59.6–.90 7.53S–.08 128.5E–.20 100 3.7b 9 7-71
ISCJB I 11 02 31 57.6–.74 7.50S–.06 128.5E–.20 100 3.6b **¶17189892**
IDC I 11 02 32 00.1–2.8 7.50S 128.49E 109–31 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.3km s-min=8.0km az=4.7.
IDC Error ellipse: s-maj=45.9km s-min=14.6km az=89.0.
ISC I 11 03 33 02.8–.82 6.30S–.06 129.30E–.08 150 3.6b 18 3-72
ISCJB I 11 03 33 01.1–.57 6.37S–.04 129.36E–.08 150 3.6b **¶17189895**
IDC I 11 03 33 03.8–2.6 6.40S 129.21E 160–28 4.2,3.8
DJA I 11 03 33 24.5–.70 5S–5.0 130E–3.0 142–13 4.2,4.2
ISC Event type ke.
ISCJB Event type ke.
IDC I 11 06 15 31.7–2.1 5.70S 129.40E 312–31 4.1,3.5
¶17189904

IDC Error ellipse: s-maj=51.5km s-min=14.7km az=78.0.
ISC I 11 15 13 26.9–1.4 7.01S–.07 129.6E–.10 150 12 2-68
IDC I 11 15 13 09.1–2.0 6.29S 130.94E 0 4.0,3.8 **¶17189924**
ISCJB I 11 15 13 24.4–.91 7.16S–.05 129.7E–.10 150 3.5b,3.8
DJA I 11 15 13 27.0–.80 7S–5.0 130E–10 167–22 5.1b,4.4
ISC Event type ke.
ISCJB Event type ke.
IDC I 11 17 48 58.2–2.3 6.07S 128.92E 331–37 4.0,3.4
¶17189930

IDC Error ellipse: s-maj=53.0km s-min=17.1km az=78.0.
IDC I 11 20 10 31.6–2.0 7.45S 125.82E 0 3.6,3.4
¶17189945

IDC Error ellipse: s-maj=113.6km s-min=27.6km az=68.0.
ISC I 12 06 23 21.6–.73 6.98S–.07 126.7E–.10 407 4.0b 18 4-70
ISCJB I 12 06 23 20.2–.52 6.99S–.05 126.6E–.10 407 3.8b **¶17189974**
IDC I 12 06 23 22.0–2.0 6.97S 126.62E 415–24 4.4,3.6
DJA I 12 06 23 34.7–.60 7S–4.0 127E–6.0 102–20 5.0b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC I 12 11 21 32.5–.68 5.43S–.05 131.23E–.04 68 4.0b 35 2-130
IDC I 12 11 21 24.0–.99 5.50S 131.11E 0 4.3L,4.2 **¶17189990**
ISCJB I 12 11 21 30.3–.49 5.55S–.04 131.26E–.03 68 4.0b,4.2
DJA I 12 11 21 32.9–.30 5S–2.0 131E–2.0 78–13 5.5b,4.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 12 21 02 36.1–3.6 6.80S 129.84E 159–40 3.9,3.5
¶17190020

IDC Error ellipse: s-maj=62.0km s-min=13.1km az=75.0.
ISC I 13 18 58 58.6–.51 5.42S–.05 130.23E–.05 10 4.0b 45 1-92
ISCJB I 13 18 58 57.0–.39 5.46S–.04 130.22E–.05 10 4.0b **¶15925972**
IDC I 13 18 58 57.2–.72 5.38S 130.12E 0 4.2L,4.1
NEIC I 13 18 58 58.0–.46 5.53S 130.24E 10 4.4b,4.1
DJA I 13 18 59 09.6–.20 5S–3.0 131E–2.0 10 5.7b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 13 18 59 08.1–.35 5.43S–.05 130.31E–.06 10 4.9s,4.8b 171 1-152
BJI I 13 18 59 03.5 5.72S 130.50E 11 5.3b,5.1s **¶16151293**
ISCJB I 13 18 59 06.0–.27 5.49S–.04 130.34E–.04 10 4.9s,4.8b
IDC I 13 18 59 06.2–.53 5.45S 130.11E 0 5.1,5.1s
NEIC I 13 18 59 07.6–.29 5.56S 130.25E 10 5.0b,5.1s
MOS I 13 18 59 10.3–1.3 5.43S 130.21E 34 5.0b,5.1s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=5.1km az=178.6.
IDC Error ellipse: s-maj=23.8km s-min=12.7km az=83.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.2km az=67.0.
MOS Error ellipse: s-maj=21.3km s-min=10.2km az=113.1.
IDC I 13 19 07 57.9–1.7 5.40S 130.28E 0 3.9,3.7
¶17190092

IDC Error ellipse: s-maj=73.5km s-min=24.3km az=85.0.
IDC I 13 19 33 41.2–2.3 6.88S 129.38E 0 4.3,4.1s
¶17190099

IDC Error ellipse: s-maj=144.5km s-min=32.5km az=68.0.
IDC I 13 19 56 45.6–2.1 6.95S 129.14E 0 3.7b,3.6
¶17190101

IDC Error ellipse: s-maj=145.7km s-min=30.8km az=67.0.
IDC I 13 20 43 52.4–2.5 6.49S 128.51E 289–37 3.8,3.2
¶17190109

IDC Error ellipse: s-maj=56.4km s-min=16.4km az=89.0.
IDC I 14 00 35 31.2–1.7 6.13S 123.59E 0 3.9s,3.9
¶17190118

IDC Error ellipse: s-maj=355.5km s-min=28.5km az=59.0.
ISC I 14 02 46 00.9–.56 5.45S–.04 130.40E–.06 10 4.0b 32 1-97
ISCJB I 14 02 45 59.7–.39 5.52S–.04 130.36E–.08 10 4.1b **¶16002296**
IDC I 14 02 46 00.1–.97 5.45S 130.44E 0 4.1,4.0b
NEIC I 14 02 46 04.6–3.1 5.55S 130.36E 32–24 4.2b,4.0b
DJA I 14 02 46 06.3–.50 5S–5.0 130E–5.0 10 4.6b,4.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 14 09 21 09.5–2.9 5.11S 127.50E 0 3.3b,3.2
¶17190149

IDC Error ellipse: s-maj=347.3km s-min=31.7km az=65.0.
ISC I 14 16 39 29.4–.32 7.03S–.03 129.18E–.04 170–2 5.0b 724 2-168
BJI I 14 16 39 24.3 7.34S 129.43E 169 5.0b,4.8b **¶15928096**
MOS I 14 16 39 27.7–1.2 6.86S 129.10E 161 5.0b,4.0s
KLM I 14 16 39 29.7 7.23S 129.31E 168 6.3s,5.6b
IDC I 14 16 39 29.9–.48 6.91S 129.22E 169–3 5.2,4.7
NEIC I 14 16 39 29.3–.15 6.96S 129.23E 168 5.4b,4.7
ISCJB I 14 16 39 29.6–.28 7.03S–.02 129.23E–.02 187–2 5.0b,4.7
GCMT I 14 16 39 29.3–.10 6.99S 129.21E 178–1 5.4W,4.7
DJA I 14 16 39 30.6–.20 7S–2.0 129E–2.0 166–5 6.1,5.9
ISC Event type fe.
NEIC Event type fe. Felt [II] at Darwin, Australia.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c131; s104,c192;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.54±.02 $M_{\theta\theta}$-0.77±.02; $M_{\phi\phi}$1.31±.02; $M_{r\theta}$0.52±.02; $M_{\theta\phi}$0.06±.02; $M_{\phi r}$0.78±.02; Best double couple: NP1:ϕ_s215.00000°,δ76.00000°,λ-50.00000°. NP2:ϕ_s321.00000° ,δ42.00000°,λ-159.00000°. Principal axes: T 1.6150,Plg21.0000°,Azm276.0000° ; N -0.3450,Plg38.0000°,Azm24.0000°; P -1.2690,Plg44.0000°,Azm164.0000° $M_0$1.44200×10^{17}
IDC I 14 21 42 00.9–2.2 6.80S 129.44E 0 3.6,3.6L
¶17190214

IDC Error ellipse: s-maj=147.8km s-min=31.9km az=68.0.
ISC I 15 10 01 51.5–.64 4.64S–.08 125.47E–.09 500 3.8b 26 2-124
ISCJB I 15 10 01 50.8–.42 4.58S–.06 125.43E–.06 500 3.8b **¶17190238**
IDC I 15 10 01 51.8–1.2 4.51S 125.49E 502–15 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.9km az=10.2.
IDC Error ellipse: s-maj=17.8km s-min=12.4km az=57.0.
ISC I 15 12 56 26.9–.25 5.62S–.03 130.29E–.03 202–1 5.4b 1075 1-168
IDC I 15 12 56 25.9–.58 5.65S 130.27E 193–5 5.4,4.9 **¶15931134**
ISCJB I 15 12 56 25.9–.23 5.67S–.02 130.33E–.02 208–2 5.3b,4.9
MOS I 15 12 56 25.1–.95 5.59S 130.21E 200 5.4b,4.4s
BJI I 15 12 56 25.4 5.61S 130.48E 212 5.3b,5.2b
GCMT I 15 12 56 26.8–.10 5.58S 130.26E 196–0 5.7W,5.2b
NEIC I 15 12 56 26.8–.40 5.65S 130.25E 199–3 5.7W,5.5b
DJA I 15 12 56 27.4–.10 6S–2.0 130E–1.0 192–2 6.5,5.9
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s124,c235; s135,c371;Duration: 1s8 Moment tensor: Scale 10^{17} Nm; M_{rr}-2.80±.04 $M_{\theta\theta}$2.30±.04; $M_{\phi\phi}$0.50±.05; $M_{r\theta}$-2.34±.04; $M_{\theta\phi}$-1.57±.04; $M_{\phi r}$2.83±.04; Best double couple: NP1:ϕ_s136.00000°,δ71.00000°,λ-78.00000°. NP2:ϕ_s283.00000° ,δ22.00000°,λ-121.00000°. Principal axes: T 4.8300,Plg25.0000°,Azm217.0000° ; N -0.1460,Plg11.0000°,Azm312.0000°; P -4.6830,Plg62.0000°,Azm64.0000° $M_0$4.75700×10^{17}
NEIC Event type fe. Felt [II] at Darwin, Australia. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.42 $M_{\theta\theta}$1.52 $M_{\phi\phi}$1.91 $M_{r\theta}$-1.57 $M_{\theta\phi}$-0.90 $M_{\phi r}$2.05 Best double couple: NP1:ϕ_s321.00000°,δ25.00000°,λ-91.00000°. NP2:ϕ_s142.00000°,δ65.00000°,λ-90.00000°. Principal axes: T 3.5800,Plg20.0000°,Azm232.0000°; N 0.8000,Plg0.0000°,Azm322.0000° ; P -4.3700,Plg70.0000°,Azm53.0000° $M_0$4.00000×10^{17}
IDC I 15 13 24 32.3–2.8 6.38S 129.76E 116–39 3.9,3.8
¶17190249

IDC Error ellipse: s-maj=63.6km s-min=24.0km az=93.0.
IDC I 15 21 42 50.6–2.6 7.72S 123.62E 0 3.9L,3.8
¶17190277

IDC Error ellipse: s-maj=186.4km s-min=42.0km az=57.0.
ISC I 15 23 20 41.5–.96 7.53S–.08 129.31E–.07 150 10 2-68
ISCJB I 15 23 20 40.1–.69 7.48S–.06 129.42E–.06 150 3.5b **¶17190279**
IDC I 15 23 20 40.9–4.7 7.17S 129.50E 172–53 3.7,3.3
DJA I 15 23 20 42.0–.40 7S–3.0 129E–3.0 178–13 5.0b,4.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 16 00 56 27.2–.78 6.19S–.09 130.20E–.09 35 4.3b 14 7-71
IDC I 16 00 56 22.6–2.5 6.12S 130.16E 0 4.2,4.2b **¶16057177**
ISCJB I 16 00 56 25.1–.57 6.21S–.06 130.17E–.07 35 4.4b,4.2b
NEIC I 16 00 56 27.2–.38 6.19S 130.21E 35 4.2b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=119.0km s-min=31.5km az=83.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=9.1km az=21.8.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.0km az=62.0.
ISC I 16 11 59 53.3–.35 6.56S–.03 129.04E–.03 222–2 5.2b 824 2-161
MOS I 16 11 59 50.1–1.1 6.52S 129.02E 205 5.1b **¶15931189**
BJI I 16 11 59 50.8 6.71S 129.19E 229 5.0b,5.0b
ISCJB I 16 11 59 52.0–.24 6.62S–.02 129.03E–.02 223–2 5.1b,5.0b
DJA I 16 11 59 51.2–.20 7S–2.0 129E–2.0 106–5 6.0b,5.9
GCMT I 16 11 59 52.7–.20 6.60S 129.06E 216–1 5.2W,5.9
NEIC I 16 11 59 52.7–.38 6.56S 128.99E 213–3 5.3b,5.9
IDC I 16 11 59 54.3–.81 6.55S 129.06E 230–6 5.3,4.7
KLM I 16 12 00 06.8 6.82S 128.58E 368 6.3s,5.5b
ISC Event type se.
MOS Error ellipse: s-maj=11.1km s-min=6.6km az=108.2.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.6km az=149.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c76; s95,c153; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.99±.19 $M_{\theta\theta}$-2.52±.20; $M_{\phi\phi}$3.51±.21; $M_{r\theta}$-3.76±.16; $M_{\theta\phi}$7.74±.18; $M_{\phi r}$0.82±.18; Best double couple: NP1:ϕ_s77.00000°,δ80.00000° ,λ-23.00000°. NP2:ϕ_s172.00000°,δ67.00000°,λ-169.00000°. Principal axes: T 9.0270,Plg9.0000°,Azm126.0000°; N 0.3250,Plg65.0000°,Azm236.0000° ; P -9.3530,Plg23.0000°,Azm32.0000° $M_0$9.19000×10^{16}

NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.9km az=48.0.
IDC Error ellipse: s-maj=10.3km s-min=7.0km az=67.0.
IDC I 16 13 44 34.8–3.0 7.39S 128.88E 114–41 3.7,3.5b
¶17190332

IDC Error ellipse: s-maj=67.5km s-min=16.8km az=95.0.
IDC I 16 20 31 54.2–2.2 6.51S 129.36E 0 3.7,3.6L
¶17190349

IDC Error ellipse: s-maj=152.2km s-min=31.2km az=68.0.
ISC I 17 05 01 46.6–.96 7.09S–.08 129.9E–.10 150 3.4b 10 2-73
IDC I 17 05 01 33.0–1.8 7.04S 128.89E 0 4.1L,3.9 **¶17190377**
ISCJB I 17 05 01 45.1–.61 7.09S–.06 129.9E–.10 150 3.5b,3.9
DJA I 17 05 01 46.0–.60 7S–4.0 130E–7.0 157–26 4.9b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 06 31 31.1–.52 7.72S–.06 127.95E–.06 35 4.3b 38 4-146
IDC I 17 06 31 26.7–.70 7.66S 127.70E 0 4.3,4.2 **¶16151637**
ISCJB I 17 06 31 28.9–.35 7.74S–.04 127.97E–.04 35 4.2b,2.8s
NEIC I 17 06 31 32.1–.89 7.66S 127.88E 42–9 4.4b,2.8s
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=14.2km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.9km az=146.4.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.3km az=216.0.
ISC I 17 06 37 27.7–.84 7.70S–.09 128.2E–.10 35 4.2b 20 4-127
IDC I 17 06 37 22.7–1.0 7.61S 127.94E 0 4.1,4.0 **¶16151639**
NEIC I 17 06 37 28.4–2.2 7.67S 128.05E 41–24 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=85.5km s-min=19.0km az=70.0.
NEIC Event type se. Error ellipse: s-maj=24.6km s-min=11.7km az=209.0.
ISC I 17 06 46 04.8–.93 6.38S–.06 130.02E–.08 146 14 2-68
ISCJB I 17 06 46 04.3–.59 6.56S–.06 130.14E–.08 146 3.3b **¶17190384**
IDC I 17 06 46 04.9–2.7 6.52S 130.05E 141–36 3.7,3.3
DJA I 17 06 46 05.2–.40 6S–3.0 130E–5.0 10 5.4b,4.8
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 07 22 05.0–1.3 6.2S–.20 128.9E–.50 35 3.6b 7 15-93
IDC I 17 07 22 00.3–1.1 5.54S 129.50E 0 3.7,3.6 **¶17190388**
ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=23.0km az=61.0.
IDC I 17 09 13 00.3–1.3 5.77S 129.74E 0 3.8,3.8b
¶17190390

IDC Error ellipse: s-maj=73.8km s-min=24.2km az=78.0.
IDC I 17 09 26 21.1–2.1 5.50S 131.45E 47–44 3.7b,3.6
¶17190393

IDC Error ellipse: s-maj=150.7km s-min=9.4km az=83.0.
IDC I 17 11 55 41.4–1.5 5.47S 130.42E 0 3.7,3.7
¶17190403

IDC Error ellipse: s-maj=66.2km s-min=21.6km az=87.0.
IDC I 17 13 28 17.5–4.7 5.20S 131.64E 0 3.6,3.5b
¶17190410

IDC Error ellipse: s-maj=326.3km s-min=31.5km az=73.0.
ISC I 17 21 29 21.7–1.1 4.6S–.10 131.6E–.20 35 3.7b 11 15-130
IDC I 17 21 29 16.8–1.0 4.21S 131.85E 0 4.3L,4.1 **¶17190428**
ISC Event type ke.
IDC Error ellipse: s-maj=58.8km s-min=17.3km az=64.0.
IDC I 18 00 45 54.7–10 7.50S 128.34E 105–104 4.1L,3.8
¶17190443

IDC Error ellipse: s-maj=261.4km s-min=39.1km az=61.0.
IDC I 18 03 26 48.4–2.0 6.38S 129.57E 0 3.6,3.5L
¶17190447

IDC Error ellipse: s-maj=81.6km s-min=27.7km az=76.0.
IDC I 18 09 07 51.6–2.4 5.77S 126.35E 0 3.7,3.5
¶17190472

IDC Error ellipse: s-maj=326.2km s-min=30.9km az=63.0.
ISC I 18 20 46 35.5–.78 6.89S–.06 129.7E–.10 100 3.6b 15 6-72
NEIC I 18 20 46 29.9–.54 6.40S 129.84E 35 4.3b **¶16151788**
IDC I 18 20 46 37.6–2.2 6.83S 129.42E 114–29 3.9s,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=8.1km az=65.0.
IDC Error ellipse: s-maj=49.1km s-min=14.5km az=97.0.
ISC I 18 23 52 48.8–.84 4.10S–.06 129.45E–.06 100 17 1-66
IDC I 18 23 52 48.9–3.7 3.95S 129.29E 108–43 4.1,3.8 **¶17190515**
ISCJB I 18 23 52 49.0–.52 4.11S–.04 129.56E–.05 100 3.4b,3.8
DJA I 18 23 52 54.2–.70 4S–5.0 129E–3.0 104–6 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 19 15 36 32.4–1.7 6.86S 129.73E 0 4.1L,4.0
¶17190569

IDC Error ellipse: s-maj=139.3km s-min=25.1km az=66.0.
IDC I 19 15 46 40.4–8.9 5.91S 128.15E 386–109 3.9,3.2
¶17190570

IDC Error ellipse: s-maj=98.6km s-min=35.4km az=61.0.
IDC I 19 18 28 47.5–1.9 6.80S 128.74E 0 4.1b,3.6
¶17190574

IDC Error ellipse: s-maj=114.9km s-min=30.8km az=67.0.
IDC I 20 02 03 25.9–3.0 7.81S 127.28E 121–28 4.0,3.6
¶17190595

IDC Error ellipse: s-maj=46.3km s-min=18.4km az=79.0.
ISC I 20 13 01 10.2–.66 6.05S–.07 130.74E–.08 150 4.0b 33 2-129
IDC I 20 13 01 05.8–7.0 5.86S 130.86E 96–67 4.5L,4.3 **¶16151941**
NEIC I 20 13 01 07.6–1.4 6.05S 130.44E 108–15 4.4b,4.3
ISCJB I 20 13 01 08.8–.42 6.02S–.04 130.73E–.06 150 4.0b,4.3
DJA I 20 13 01 10.8–.50 6S–4.0 131E–4.0 127–15 5.6b,5.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC I 20 19 21 26.4–2.0 6.89S 127.97E 0 4.0,3.9L
¶17190642

IDC Error ellipse: s-maj=83.8km s-min=27.4km az=73.0.
ISC I 21 12 19 03.2–.97 5.87S–.05 130.69E–.09 100 13 2-68
ISCJB I 21 12 19 01.9–.73 5.91S–.05 130.72E–.07 100 3.7b **¶17190678**
IDC I 21 12 19 02.6–3.0 5.94S 130.27E 79–39 4.1,4.0
DJA I 21 12 19 17.0–.70 5S–5.0 131E–3.0 117–9 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC I 21 14 06 44.0–1.9 6.95S 129.10E 0 3.8,3.8L
¶17190680

IDC Error ellipse: s-maj=108.9km s-min=30.8km az=67.0.
IDC I 21 19 07 46.9–2.0 7.52S 126.63E 0 3.9L,3.8
¶17190692

IDC Error ellipse: s-maj=220.1km s-min=31.8km az=62.0.
IDC I 21 21 05 30.4–2.9 6.03S 130.04E 126–39 3.6,3.3
¶17190699

IDC Error ellipse: s-maj=73.6km s-min=21.0km az=88.0.
IDC I 21 21 11 45.1–1.9 4.77S 130.57E 0 3.6b,3.5
¶17190700

IDC Error ellipse: s-maj=94.1km s-min=30.1km az=83.0.
IDC I 22 11 08 53.6–4.0 5.88S 128.56E 422–67 3.5,2.8
¶17190739

IDC Error ellipse: s-maj=107.9km s-min=17.4km az=81.0.
IDC I 22 13 59 41.7–3.1 6.27S 129.45E 106–41 3.6,3.3
¶17190747

IDC Error ellipse: s-maj=67.6km s-min=22.1km az=90.0.
ISC I 22 14 18 15.6–.35 4.79S–.04 129.28E–.05 200 4.5b 187 1-148
BJI I 22 14 18 10.4 5.23S 129.81E 215 4.7b,4.5b **¶15959221**
ISCJB I 22 14 18 14.2–.22 4.72S–.02 129.43E–.03 200 4.5b,4.5b
NEIC I 22 14 18 16.1–.81 4.72S 129.22E 211–8 4.8b,4.5b
KLM I 22 14 18 16.1 4.73S 129.58E 220 5.7s,5.0b
IDC I 22 14 18 17.7–1.4 4.71S 129.41E 217–14 4.7,4.1
DJA I 22 14 18 18.5–.20 5S–2.0 129E–2.0 226–2 5.2b,5.0
ISC Event type se.
ISCJB Event type se.

NEIC Event type se.
ISC I 22 14 33 14.6–.82 6.57S–.06 130.6E–.20 146 10 6-68
IDC I 22 14 33 16.6–2.1 6.52S 130.12E 150–20 3.7,3.3 **¶17190749**
ISC Event type ke.
IDC Error ellipse: s-maj=54.6km s-min=18.2km az=86.0.
IDC I 22 16 27 16.0–2.2 6.60S 129.61E 0 3.5,3.5b
¶17190754

IDC Error ellipse: s-maj=150.9km s-min=31.2km az=69.0.
IDC I 23 06 20 27.7–5.3 5.88S 128.98E 225–71 3.5,2.9
¶17190779

IDC Error ellipse: s-maj=106.5km s-min=17.0km az=81.0.
IDC I 23 08 48 44.7–1.6 6.47S 130.06E 0 3.9,3.9L
¶17190785

IDC Error ellipse: s-maj=84.8km s-min=26.7km az=79.0.
ISC I 23 09 33 04.8–.99 6.47S–.07 130.0E–.20 146 8 6-68
ISCJB I 23 09 33 03.2–.86 6.44S–.06 130.0E–.20 146 3.6b **¶17190787**
IDC I 23 09 33 05.5–2.5 6.50S 129.95E 149–29 3.8,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.7km s-min=8.5km az=5.0.
IDC Error ellipse: s-maj=50.5km s-min=15.3km az=78.0.
IDC I 23 16 11 01.2–1.7 6.80S 128.38E 0 3.2,3.2
¶17190816

IDC Error ellipse: s-maj=59.2km s-min=29.6km az=78.0.
IDC I 23 18 50 36.8–2.0 7.69S 129.32E 70–19 3.8,3.6
¶17190825

IDC Error ellipse: s-maj=34.8km s-min=14.6km az=84.0.
IDC I 23 20 59 54.2–1.7 7.02S 128.11E 0 3.7,3.6b
¶17190833

IDC Error ellipse: s-maj=57.4km s-min=29.1km az=77.0.
ISC I 24 11 45 22.6–.76 6.75S–.04 129.88E–.09 150 3.7b 23 2-80
IDC I 24 11 45 20.9–2.6 6.74S 129.60E 123–30 4.3,4.0 **¶17190886**
ISCJB I 24 11 45 22.2–.44 6.80S–.04 129.83E–.06 150 3.6b,4.0
DJA I 24 11 45 23.5–.30 7S–3.0 130E–4.0 176–14 5.1b,4.6b
ISC Event type ke.
ISCJB Event type ke.
ISC I 24 14 04 58.2–.60 5.35S–.05 128.75E–.07 300 3.7b 23 1-76
ISCJB I 24 14 04 57.0–.46 5.39S–.04 128.56E–.08 300 3.7b **¶17190898**
IDC I 24 14 04 59.6–1.6 5.25S 128.60E 328–18 4.2,3.5
DJA I 24 14 05 02.2–.40 6S–3.0 129E–5.0 10 5.0b,4.4b
ISC Event type ke.
ISCJB Event type ke.
IDC I 24 19 37 55.6–2.3 6.55S 129.99E 156–28 4.0s,4.0
¶17190916

IDC Error ellipse: s-maj=51.1km s-min=13.9km az=86.0.
ISC I 24 21 48 26.4–.91 7.69S–.10 126.4E–.10 35 3.7b 12 7-71
IDC I 24 21 48 22.2–1.2 7.38S 126.58E 0 4.0,3.9 **¶17190925**
ISCJB I 24 21 48 24.7–.73 7.66S–.08 126.3E–.10 33 3.6b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 25 05 15 44.1–1.2 7.49S–.05 123.30E–.07 35 4.0b 18 2-122
IDC I 25 05 15 38.1–.92 8.51S 122.99E 0 4.5L,4.3 **¶17190944**
ISCJB I 25 05 15 40.5–.84 7.58S–.05 123.42E–.07 35 4.0b,4.3
DJA I 25 05 15 44.1–.50 7S–4.0 123E–3.0 63–24 4.9b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC I 25 06 50 03.6–.67 7.32S–.08 128.7E–.20 151 4.0b 18 7-146
ISCJB I 25 06 50 01.4–.49 7.48S–.06 128.6E–.10 151 3.8b **¶17190946**
IDC I 25 06 50 04.0–2.9 7.36S 128.56E 153–27 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=7.2km az=170.3.
IDC Error ellipse: s-maj=28.8km s-min=13.3km az=81.0.
ISC I 25 20 46 48.1–.81 5.55S–.06 131.3E–.20 35 3.6b 13 5-71
IDC I 25 20 46 48.6–1.1 5.62S 131.22E 38–7 3.7L,3.6 **¶17190983**
ISC Event type ke.
IDC Error ellipse: s-maj=69.4km s-min=11.3km az=80.0.
IDC I 26 09 51 05.5–2.8 7.14S 129.23E 96–38 3.5,3.5b
¶17191026

IDC Error ellipse: s-maj=62.6km s-min=20.7km az=96.0.
IDC I 26 13 47 14.9–2.1 6.89S 128.70E 0 3.4,3.4L
¶17191038

IDC Error ellipse: s-maj=163.2km s-min=31.1km az=67.0.
ISC I 26 14 55 42.4–1.1 5.96S–.07 130.9E–.10 150 11 2-68
IDC I 26 14 55 27.9–3.5 5.44S 131.09E 0 3.7b,3.6 **¶17191044**
ISCJB I 26 14 55 41.4–.61 5.91S–.06 130.9E–.10 150 3.5b,3.6
DJA I 26 14 55 42.3–.70 6S–4.0 131E–6.0 130–14 4.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC I 26 17 22 15.1–3.0 7.32S 129.57E 61–43 3.3,3.3
¶17191049

IDC Error ellipse: s-maj=74.9km s-min=24.9km az=93.0.
IDC I 26 18 27 26.8–1.8 7.53S 126.10E 0 3.5,3.3
¶17191054

IDC Error ellipse: s-maj=108.5km s-min=26.6km az=69.0.
IDC I 26 18 50 14.1–5.0 5.94S 127.94E 412–79 3.7,3.0
¶17191055

IDC Error ellipse: s-maj=112.8km s-min=17.6km az=81.0.
IDC I 26 22 37 04.0–1.6 4.30S 129.27E 0 3.2,3.2b
¶17191064

IDC Error ellipse: s-maj=56.1km s-min=26.8km az=81.0.
IDC I 26 23 10 50.9–1.9 6.90S 128.95E 0 4.1,4.1L
¶17191066

IDC Error ellipse: s-maj=111.0km s-min=30.4km az=67.0.
IDC I 27 04 32 04.8–3.2 5.49S 129.40E 281–40 4.1,3.5
¶17191079

IDC Error ellipse: s-maj=70.0km s-min=11.3km az=75.0.
IDC I 27 12 04 34.4–2.4 5.07S 129.82E 202–32 3.5,2.9
¶17191105

IDC Error ellipse: s-maj=55.5km s-min=15.1km az=80.0.
IDC I 27 18 14 47.4–3.9 6.98S 129.70E 148–53 3.6,3.3
¶17191138

IDC Error ellipse: s-maj=78.1km s-min=22.6km az=76.0.
IDC I 27 18 50 21.2–2.9 7.54S 128.43E 158–38 4.2,3.8
¶17191140

IDC Error ellipse: s-maj=62.8km s-min=16.2km az=95.0.
IDC I 27 21 08 31.1–2.1 7.91S 126.72E 0 3.5,3.5L
¶17191144

IDC Error ellipse: s-maj=267.9km s-min=32.9km az=62.0.
IDC I 28 06 53 44.5–1.8 6.94S 129.99E 0 4.1,4.1b
¶17191179

IDC Error ellipse: s-maj=138.3km s-min=29.4km az=70.0.
IDC I 28 12 14 44.8–6.2 7.32S 129.38E 208–63 3.5,3.2b
¶17191191

IDC Error ellipse: s-maj=78.3km s-min=29.8km az=65.0.
ISC I 28 21 33 41.6–.42 6.54S–.04 128.04E–.05 337–3 4.4b 211 3-152
BJI I 28 21 33 37.0 6.79S 128.44E 340 4.6b,4.4b **¶15979840**
MOS I 28 21 33 39.4–1.0 6.45S 128.05E 328 4.5b,4.4b
ISCJB I 28 21 33 40.6–.29 6.53S–.03 128.09E–.03 342–3 4.4b,4.4b
NEIC I 28 21 33 41.0–.32 6.47S 128.04E 329–3 4.5b,4.4b
IDC I 28 21 33 41.6–1.5 6.50S 128.00E 334–16 4.9,4.2
DJA I 28 21 33 42.0–.20 7S–4.0 128E–3.0 313–6 5.1b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 28 22 01 24.1–2.2 6.68S 129.57E 0 3.7,3.7L
¶17191218

IDC Error ellipse: s-maj=79.6km s-min=29.8km az=76.0.
IDC I 29 20 18 40.2–2.4 6.44S 130.33E 0 3.4,3.3b
¶17191269

IDC Error ellipse: s-maj=96.0km s-min=29.4km az=77.0.
IDC I 30 03 00 18.2–2.1 6.35S 129.53E 0 3.9,3.9
¶17191285

IDC Error ellipse: s-maj=83.3km s-min=28.3km az=76.0.
IDC I 30 04 55 14.9–2.2 6.69S 130.14E 0 3.5,3.5L
¶17191291

IDC Error ellipse: s-maj=89.1km s-min=27.9km az=77.0.
IDC I 30 07 32 29.6–9.0 7.47S 124.20E 307–103 3.8,3.2
¶17191301

IDC Error ellipse: s-maj=154.3km s-min=28.3km az=51.0.
ISC I 30 15 26 58.5–.70 7.92S–.04 123.03E–.06 221 3.7b 31 2-122
IDC I 30 15 26 57.5–4.4 7.90S 122.85E 221–46 4.0,3.5 **¶17191332**
ISCJB I 30 15 26 58.7–.47 7.97S–.03 123.10E–.04 221 3.6b,3.5
DJA I 30 15 27 00.5–.70 8S–2.0 123E–3.0 228–6 4.2b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC I 30 16 19 00.5–2.2 6.98S 128.50E 0 3.4,3.3
¶17191335

IDC Error ellipse: s-maj=106.8km s-min=28.1km az=74.0.
IDC I 30 17 07 20.8–1.4 7.46S 124.27E 0 3.8,3.8b
¶17191338

IDC Error ellipse: s-maj=109.3km s-min=25.0km az=67.0.
ISC I 30 17 42 19.4–.77 6.41S–.07 130.1E–.10 146 3.8b 11 6-68
ISCJB I 30 17 42 17.5–.62 6.42S–.05 130.12E–.08 146 3.7b **¶17191343**
IDC I 30 17 42 20.2–2.5 6.47S 129.96E 153–28 3.9,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.9km az=166.3.
IDC Error ellipse: s-maj=35.5km s-min=13.5km az=69.0.
IDC I 30 23 43 55.1–2.0 7.06S 128.68E 0 3.6,3.5
¶17191368

IDC Error ellipse: s-maj=81.2km s-min=27.7km az=75.0.
IDC I 31 00 51 57.2–2.0 6.61S 130.22E 0 3.6L,3.5
¶17191372

IDC Error ellipse: s-maj=80.2km s-min=31.5km az=69.0.
ISC I 31 02 48 12.2–.85 5.02S–.05 129.89E–.05 200 30 0-71
ISCJB I 31 02 48 11.0–.41 5.03S–.03 129.89E–.04 200 3.2b **¶17191381**
IDC I 31 02 48 11.8–2.7 5.09S 129.78E 182–35 4.0,3.5
DJA I 31 02 48 13.7–.40 5S–2.0 130E–2.0 162–7 4.7b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC I 31 21 27 00.6–2.2 6.35S 130.52E 0 3.6b,3.5
¶17191435

IDC Error ellipse: s-maj=127.6km s-min=31.1km az=70.0.
IDC I 31 22 00 17.3–10 7.17S 123.27E 465–138 3.5,2.8
¶17191438

IDC Error ellipse: s-maj=160.2km s-min=31.4km az=69.0.
ISC II 01 11 01 39.5–.49 4.68S–.04 130.71E–.05 50 4.2b 42 1-148
ISCJB II 01 11 01 37.2–.41 4.72S–.04 130.86E–.04 50 4.1b,3.5s **¶16337742**
IDC II 01 11 01 40.8–3.2 4.73S 130.72E 66–29 4.4L,4.2
NEIC II 01 11 01 40.4–1.3 4.81S 130.73E 68–13 4.5b,4.2
DJA II 01 11 01 42.2–.30 5S–3.0 131E–3.0 48–10 4.6b,4.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 01 11 06 59.1–2.3 4.72S 130.22E 0 3.8,3.7L
¶17191476

IDC Error ellipse: s-maj=166.2km s-min=28.7km az=71.0.
IDC II 01 15 50 42.4–2.8 6.94S 129.14E 138–37 3.2,2.8
¶17191492

IDC Error ellipse: s-maj=59.5km s-min=19.4km az=95.0.
IDC II 01 19 39 50.1–2.5 6.94S 129.94E 0 3.8,3.8b
¶17191507

IDC Error ellipse: s-maj=74.2km s-min=24.6km az=91.0.
ISC II 02 06 28 14.3–.69 6.42S–.06 128.3E–.10 400 3.4b 20 3-72
ISCJB II 02 06 28 13.1–.49 6.42S–.04 128.21E–.09 400 3.4b **¶17191524**
IDC II 02 06 28 14.0–2.0 6.43S 128.33E 390–22 4.0,3.3
DJA II 02 06 28 19.6–.40 7S–3.0 129E–4.0 10 4.5b,4.3
ISC Event type ke.
ISCJB Event type ke.
IDC II 02 13 16 35.0–2.8 6.89S 127.89E 296–40 3.8,3.2
¶17191544

IDC Error ellipse: s-maj=61.0km s-min=18.5km az=86.0.
IDC II 02 13 37 03.8–2.5 4.99S 129.30E 0 3.6,3.4
¶17191545

IDC Error ellipse: s-maj=189.9km s-min=29.1km az=69.0.
IDC II 03 01 05 49.4–2.1 6.78S 128.80E 0 4.1,3.9
¶17191567

IDC Error ellipse: s-maj=151.8km s-min=30.6km az=67.0.
IDC II 03 04 37 21.5–2.4 7.60S 127.85E 0 3.7,3.6b
¶17191573

IDC Error ellipse: s-maj=291.5km s-min=32.2km az=64.0.
ISC II 03 15 07 33.1–.71 7.29S–.08 128.86E–.09 10 4.4s,4.0b 16 3-94
IDC II 03 15 07 31.3–1.0 7.28S 128.84E 0 4.3,4.3s **¶16328669**
NEIC II 03 15 07 36.3–.69 7.15S 129.17E 35 4.1b,4.3s
DJA II 03 15 07 43.7–1.2 7S–4.0 129E–3.0 13–9 5.5b,5.0
ISC Event type se.
NEIC Event type se.
IDC II 03 19 12 06.9–2.2 6.51S 129.48E 0 3.9,3.9L
¶17191613

IDC Error ellipse: s-maj=90.7km s-min=28.4km az=76.0.
ISC II 03 20 42 59.2–.54 6.83S–.05 130.80E–.10 47 3.9b 39 1-150
DJA II 03 20 42 49.8–.70 8S–4.0 129E–6.0 10 5.6b,5.4b **¶16328663**
IDC II 03 20 42 53.6–.82 6.54S 130.83E 0 4.8L,4.4
ISCJB II 03 20 42 57.6–.43 6.74S–.05 130.7E–.10 47 4.0b,4.4
NEIC II 03 20 43 01.2–1.1 6.71S 130.90E 63–11 4.2b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=39.5km s-min=19.5km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=6.1km az=169.4.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.7km az=87.0.
ISC II 03 21 37 53.0–.34 6.72S–.03 130.54E–.04 100–2 5.1b 383 1-158
BJI II 03 21 37 47.8 6.92S 130.76E 92 5.3b,4.9b **¶16002872**
MOS II 03 21 37 50.9–.99 6.62S 130.57E 94 5.2b,4.9b
ISCJB II 03 21 37 52.4–.29 6.74S–.02 130.57E–.02 112–2 5.1b,4.9b
NEIC II 03 21 37 52.7–.41 6.69S 130.51E 96–4 5.4b,4.9b
GCMT II 03 21 37 52.7–.20 6.73S 130.57E 99–3 5.2W,4.9b
IDC II 03 21 37 53.2–1.5 6.60S 130.55E 97–12 5.0,4.6
DJA II 03 21 37 53.9–.20 7S–1.0 131E–1.0 99–3 5.8,5.7b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c35; s84,c123;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.38±.29 $M_{\theta\theta}$-5.39±.27; $M_{\phi\phi}$4.01±.30; $M_{r\theta}$1.93±.17; $M_{\theta\phi}$-2.02±.26; $M_{\phi r}$4.56±.17; Best double couple: NP1:ϕ_s37.00000°,δ81.00000°,λ44.00000°. NP2:ϕ_s298.00000°,δ47.00000°,λ168.00000°. Principal axes: T 7.4580,Plg36.0000°,Azm267.0000°; N -0.5040,Plg46.0000°,Azm46.0000° ; P -6.9540,Plg22.0000°,Azm160.0000° $M_0$7.20600×10^{16}
ISC II 04 11 51 50.2–.36 5.42S–.04 129.88E–.05 200 4.3b 113 1-108
ISCJB II 04 11 51 48.8–.21 5.35S–.03 129.78E–.04 200 4.2b **¶16007293**
BJI II 04 11 51 50.3 5.30S 129.80E 217 4.8b,4.4b
NEIC II 04 11 51 51.6–.52 5.30S 129.85E 214–6 4.4b,4.4b
IDC II 04 11 51 51.6–1.6 5.35S 129.84E 216–16 4.5,3.9
DJA II 04 11 51 56.6–.50 5S–5.0 130E–4.0 187–8 4.6,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 04 19 10 06.1–3.0 6.74S 128.53E 0 3.5,3.4b
¶17191688

IDC Error ellipse: s-maj=320.4km s-min=32.5km az=66.0.
IDC II 04 20 23 47.1–2.3 6.61S 129.68E 0 3.5,3.5b
¶17191692

IDC Error ellipse: s-maj=137.8km s-min=32.1km az=69.0.
IDC II 05 00 54 07.8–2.2 6.30S 129.53E 0 3.6,3.4
¶17191706

IDC Error ellipse: s-maj=85.3km s-min=28.6km az=76.0.
IDC II 05 04 12 21.6–2.0 6.77S 128.97E 0 3.7,3.5
¶17191712

IDC Error ellipse: s-maj=87.5km s-min=27.4km az=75.0.
IDC II 06 17 33 06.4–2.2 6.27S 128.90E 0 3.4,3.3b
¶17191809

IDC Error ellipse: s-maj=132.8km s-min=31.8km az=67.0.
IDC II 06 18 07 01.1–3.0 6.34S 130.03E 96–40 3.2,3.0
¶17191815

IDC Error ellipse: s-maj=73.9km s-min=22.2km az=89.0.
IDC II 06 18 23 44.9–2.0 7.05S 127.80E 0 4.0,3.9L
¶17191818

IDC Error ellipse: s-maj=106.5km s-min=26.9km az=73.0.
IDC II 06 23 18 11.3–2.5 6.05S 130.51E 92–27 4.0,3.7
¶17191837

IDC Error ellipse: s-maj=40.5km s-min=21.5km az=85.0.
IDC II 07 00 48 51.6–2.5 6.86S 128.91E 0 3.4,3.3L
¶17191838

IDC Error ellipse: s-maj=201.3km s-min=32.6km az=67.0.
ISC II 07 15 12 42.3–1.0 6.34S–.09 130.1E–.20 146 3.8b 10 4-71
IDC II 07 15 12 27.4–1.6 5.79S 130.35E 0 3.9,3.9b **¶16026099**
ISCJB II 07 15 12 41.0–.71 6.26S–.07 130.0E–.20 146 3.7b,3.9b
NEIC II 07 15 12 44.3–.94 6.15S 130.26E 157–11 4.2b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=99.5km s-min=27.2km az=73.0.
ISCJB Event type se. Error ellipse: s-maj=22.5km s-min=8.4km az=168.2.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=11.5km az=96.0.
IDC II 07 19 20 58.6–2.7 7.05S 128.16E 0 3.3,3.2L
¶17191875

IDC Error ellipse: s-maj=286.3km s-min=33.5km az=65.0.
ISC II 08 08 16 05.2–.40 6.01S–.04 127.89E–.04 399–3 4.7b 349 2-161
BJI II 08 08 16 03.4 6.00S 127.80E 396 4.5b,4.2b **¶16009499**
ISCJB II 08 08 16 04.3–.22 6.00S–.02 127.90E–.02 402–2 4.7b,4.2b
MOS II 08 08 16 04.5–1.2 5.91S 127.85E 404 4.7b,4.2b
DJA II 08 08 16 05.3–.20 6S–2.0 128E–2.0 400–3 5.7,5.3b
KLM II 08 08 16 05.9 6.12S 127.84E 405 5.6s,5.1b
IDC II 08 08 16 05.6–.65 5.99S 127.87E 402–6 4.9,4.2
NEIC II 08 08 16 06.1–.12 5.96S 127.84E 405 4.9b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.4km az=37.9.
MOS Error ellipse: s-maj=12.0km s-min=7.1km az=109.2.
IDC Error ellipse: s-maj=11.4km s-min=6.5km az=68.0.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=225.0.
IDC II 08 13 29 12.0–2.3 7.45S 127.45E 0 3.7,3.7L
¶17191897

IDC Error ellipse: s-maj=296.8km s-min=32.1km az=64.0.
ISC II 09 05 53 46.6–.64 7.07S–.06 129.46E–.07 139 4.2b 24 2-128
ISCJB II 09 05 53 46.7–.55 7.08S–.05 129.40E–.06 139 4.1b **¶16358557**
NEIC II 09 05 53 46.8–1.1 6.82S 129.47E 141–13 4.6b
IDC II 09 05 53 48.6–3.6 6.82S 129.44E 158–37 4.5,4.1
DJA II 09 05 53 50.9–.90 7S–5.0 130E–9.0 203–18 5.2b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 09 11 30 12.7–1.7 6.77S 129.15E 0 3.5b,3.4
¶17191942

IDC Error ellipse: s-maj=129.5km s-min=29.2km az=71.0.
IDC II 09 13 03 53.0–2.6 7.12S 128.00E 0 3.5,3.5b
¶17191946

IDC Error ellipse: s-maj=314.0km s-min=32.1km az=65.0.
IDC II 09 22 06 57.9–1.3 6.93S 129.36E 0 4.5L,4.2
¶17191970

IDC Error ellipse: s-maj=68.5km s-min=19.1km az=69.0.
IDC II 10 03 54 57.1–1.6 7.59S 126.61E 0 4.3L,4.0
¶17191991

IDC Error ellipse: s-maj=169.4km s-min=29.1km az=62.0.
IDC II 10 10 18 20.9–2.1 6.56S 129.42E 0 3.6,3.6L
¶17192005

IDC Error ellipse: s-maj=120.3km s-min=31.3km az=68.0.
IDC II 10 11 30 57.4–4.2 5.44S 131.87E 0 3.7,3.7L
¶17192008

IDC Error ellipse: s-maj=309.1km s-min=28.8km az=74.0.
IDC II 10 16 19 41.2–1.9 5.93S 130.79E 0 4.2L,4.1
¶17192021

IDC Error ellipse: s-maj=127.5km s-min=26.0km az=67.0.
IDC II 10 18 22 28.1–4.3 6.01S 128.94E 349–48 3.7,3.0
¶17192027

IDC Error ellipse: s-maj=61.2km s-min=16.8km az=72.0.
ISC II 11 03 54 48.1–.24 6.44S–.03 130.42E–.04 150 4.7b 340 2-159
MOS II 11 03 54 43.8–1.0 6.38S 130.32E 120 4.7b **¶16020434**
GCMT II 11 03 54 46.4–.30 6.52S 130.45E 152–3 5.0W
NEIC II 11 03 54 46.4–.36 6.40S 130.45E 132–3 4.9b
ISCJB II 11 03 54 46.2–.15 6.46S–.02 130.52E–.02 150 4.7b
BJI II 11 03 54 46.4 6.40S 130.40E 138 5.1b,4.6b
IDC II 11 03 54 46.7–2.2 6.36S 130.48E 132–20 4.8,4.4
DJA II 11 03 54 47.7–.20 6S–2.0 130E–2.0 122–3 5.6,5.5b
ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s34,c37; s80,c103;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.14 $M_{\theta\theta}$-0.69±.15; $M_{\phi\phi}$1.85±.17; $M_{r\theta}$-0.90±.09; $M_{\theta\phi}$0.30±.17; $M_{\phi r}$3.41±.11; Best double couple: NP1:ϕ_s166.00000°,δ80.00000°,λ-103.00000°. NP2:ϕ_s37.00000°,δ17.00000°,λ-39.00000°. Principal axes: T 4.0810,Plg33.0000°,Azm267.0000°; N -0.4140,Plg13.0000°,Azm168.0000° ; P -3.6730,Plg54.0000°,Azm60.0000° $M_0$3.87700×10^{16}
NEIC Event type se.
ISCJB Event type se.
IDC II 11 07 43 41.8–2.4 4.46S 126.81E 0 3.6,3.5
¶17192059

IDC Error ellipse: s-maj=432.3km s-min=25.9km az=64.0.
ISC II 11 16 09 02.3–.45 7.04S–.06 129.60E–.07 100 4.4b 41 2-151
ISCJB II 11 16 09 00.6–.32 7.12S–.04 129.56E–.04 100 4.2b **¶16342605**
IDC II 11 16 09 00.3–3.1 6.95S 129.58E 74–28 4.4,4.2
NEIC II 11 16 09 01.7–1.1 7.02S 129.65E 90–11 4.2b,4.2
DJA II 11 16 09 05.7–.30 7S–3.0 130E–3.0 123–9 5.3b,4.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 12 20 35 31.9–11 7.25S 128.03E 107–111 3.7,3.7L
¶17192126

IDC Error ellipse: s-maj=269.5km s-min=42.7km az=62.0.
IDC II 13 15 53 06.7–1.6 6.69S 129.39E 0 4.2L,4.1
¶17192160

IDC Error ellipse: s-maj=114.6km s-min=25.1km az=65.0.
IDC II 13 17 28 29.9–2.4 6.84S 129.68E 0 3.3,3.2L
¶17192164

IDC Error ellipse: s-maj=129.4km s-min=33.4km az=68.0.
ISC II 14 02 25 59.0–.79 6.54S–.05 130.17E–.06 146 20 2-68
IDC II 14 02 25 55.5–8.9 6.53S 130.05E 107–90 4.1,3.9L **¶17192214**
ISCJB II 14 02 25 57.9–.47 6.63S–.04 130.22E–.05 146 4.1b,3.9L
DJA II 14 02 25 59.1–.70 6S–3.0 130E–4.0 223–13 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
IDC II 14 09 13 16.2–4.7 6.41S 128.57E 376–56 3.8,3.1
¶17192232

IDC Error ellipse: s-maj=113.5km s-min=13.8km az=70.0.
IDC II 15 10 23 25.7–22 5.94S 127.74E 203–251 3.9L,3.8
¶17192296

IDC Error ellipse: s-maj=134.2km s-min=86.6km az=79.0.
IDC II 15 10 31 50.9–2.1 6.62S 129.98E 0 4.0,3.9b
¶17192297

IDC Error ellipse: s-maj=90.1km s-min=27.0km az=77.0.
ISC II 15 17 33 26.6–.31 6.35S–.03 130.63E–.03 150 4.7b 176 2-151
MOS II 15 17 33 20.5–1.0 6.22S 130.56E 94 4.8b **¶16339746**

IDC II 15 17 33 22.4–2.5 6.21S 130.63E 93–24 4.7,4.4
BJI II 15 17 33 22.2 6.57S 130.62E 131 5.3b,4.7b
NEIC II 15 17 33 26.2–.62 6.24S 130.54E 130–6 5.0b,4.7b
ISCJB II 15 17 33 26.1–.19 6.30S–.03 130.65E–.02 150 4.7b,4.7b
DJA II 15 17 33 27.3–.20 6S–2.0 131E–2.0 134–2 5.4b,5.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 16 05 20 15.5–14 7.71S 129.26E 136–159 3.4,3.4L
¶17192343

IDC Error ellipse: s-maj=92.3km s-min=49.3km az=12.0.
IDC II 16 13 27 44.8–1.9 7.12S 127.75E 0 3.7,3.5
¶17192367

IDC Error ellipse: s-maj=109.4km s-min=26.1km az=72.0.
ISC II 16 23 25 35.9–.84 7.27S–.08 129.6E–.10 79 3.8b 11 7-73
ISCJB II 16 23 25 34.2–.66 7.22S–.06 129.48E–.09 79 3.8b ¶17192391
IDC II 16 23 25 39.3–5.2 7.28S 129.55E 112–58 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=8.5km az=1.5.
IDC Error ellipse: s-maj=49.6km s-min=30.8km az=43.0.
ISC II 17 00 03 23.2–1.4 4.4S–.10 130.8E–.10 35 8 1-67
IDC II 17 00 03 17.8–1.5 4.13S 131.00E 0 3.8,3.7 ¶17192392
ISCJB II 17 00 03 21.4–1.2 4.3S–.10 130.90E–.08 33 3.7b,3.7
DJA II 17 00 03 26.6–3.4 4S–50 131E–11 12–56 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 08 56 08.4–.73 6.65S–.08 130.07E–.08 146 4.1b 19 2-146
ISCJB II 17 08 56 07.5–.51 6.60S–.05 130.05E–.06 146 3.9b ¶17192406
DJA II 17 08 56 09.4–.40 7S–4.0 130E–5.0 166–15 5.4b,4.8
IDC II 17 08 56 09.9–3.6 6.63S 129.92E 162–36 4.3,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.4km az=34.1.
IDC Error ellipse: s-maj=30.7km s-min=15.0km az=43.0.
IDC II 17 19 08 08.4–5.4 6.23S 128.57E 315–58 3.5,2.9
¶17192442

IDC Error ellipse: s-maj=71.1km s-min=22.0km az=59.0.
ISC II 17 22 14 53.3–.73 6.7S–.10 130.0E–.10 35 4.1b 16 12-93
IDC II 17 22 14 48.9–1.7 6.69S 129.77E 0 4.0L,3.9 ¶16339755
ISCJB II 17 22 14 51.2–.52 6.74S–.07 130.0E–.10 35 4.3b,3.9
NEIC II 17 22 14 53.4–1.6 6.72S 130.01E 35–18 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=85.4km s-min=24.2km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=16.6km s-min=8.6km az=160.5.
NEIC Event type se. Error ellipse: s-maj=15.0km s-min=9.7km az=216.0.
IDC II 19 02 19 46.0–4.1 6.78S 125.97E 470–57 3.9,3.1
¶17192516

IDC Error ellipse: s-maj=105.0km s-min=16.7km az=55.0.
IDC II 19 07 57 05.7–9.4 7.65S 127.16E 99–106 4.3L,3.9
¶17192524

IDC Error ellipse: s-maj=74.2km s-min=56.5km az=53.0.
IDC II 19 14 31 48.4–4.2 6.31S 128.92E 270–42 4.0,3.5
¶17192538

IDC Error ellipse: s-maj=58.8km s-min=15.3km az=71.0.
IDC II 19 20 14 07.9–2.1 7.09S 129.01E 0 3.8,3.7L
¶17192549

IDC Error ellipse: s-maj=142.5km s-min=31.0km az=67.0.
IDC II 19 23 12 38.8–2.1 6.51S 129.84E 0 3.6,3.4
¶17192553

IDC Error ellipse: s-maj=84.2km s-min=27.8km az=77.0.
IDC II 19 23 51 38.0–2.1 6.19S 129.84E 0 3.8,3.6
¶17192557

IDC Error ellipse: s-maj=96.3km s-min=16.6km az=74.0.
IDC II 20 00 38 23.5–7.2 7.27S 129.99E 160–76 3.5,3.2b
¶17192561

IDC Error ellipse: s-maj=56.6km s-min=34.1km az=55.0.
IDC II 20 01 03 52.5–14 7.73S 128.55E 144–157 3.6,3.5L
¶17192562

IDC Error ellipse: s-maj=98.1km s-min=56.9km az=23.0.
IDC II 20 02 17 34.0–2.3 6.67S 129.92E 0 3.7,3.5
¶17192566

IDC Error ellipse: s-maj=88.8km s-min=29.3km az=77.0.
IDC II 20 03 55 03.3–2.4 6.94S 129.37E 0 3.8,3.8
¶17192568

IDC Error ellipse: s-maj=99.2km s-min=30.3km az=75.0.
IDC II 20 08 01 09.0–3.0 6.22S 129.04E 482–37 4.0,3.2
¶17192573

IDC Error ellipse: s-maj=65.2km s-min=12.9km az=71.0.
ISC II 20 16 48 57.3–.45 7.72S–.06 127.68E–.06 162 4.0b 73 4-151
IDC II 20 16 48 53.4–3.3 7.55S 127.49E 116–31 4.3,3.9 ¶16057012
BJI II 20 16 48 53.3 8.00S 127.46E 150 4.8b,4.3b
ISCJB II 20 16 48 55.3–.28 7.78S–.03 127.61E–.04 162 4.1b,4.3b
NEIC II 20 16 48 56.6–.58 7.58S 127.59E 148–6 4.3b,4.3b
DJA II 20 16 48 58.5–.50 8S–4.0 128E–4.0 92–64 5.3b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 20 18 28 28.2–.65 6.19S–.04 130.39E–.05 150 3.9b 37 2-78
IDC II 20 18 28 12.6–.97 5.79S 130.31E 0 4.7L,4.3 ¶16398621
NEIC II 20 18 28 25.4–1.5 6.22S 130.20E 123–17 4.5b,4.3
ISCJB II 20 18 28 26.7–.36 6.22S–.03 130.36E–.04 150 3.8b,4.3
DJA II 20 18 28 29.2–.40 6S–2.0 130E–3.0 148–7 5.1b,4.7b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 21 18 42 10.4–2.1 6.69S 129.77E 0 3.5,3.5L
¶17192650

IDC Error ellipse: s-maj=81.9km s-min=28.1km az=77.0.
IDC II 21 19 57 49.2–2.0 7.49S 129.07E 0 3.6,3.4
¶17192656

IDC Error ellipse: s-maj=81.9km s-min=27.9km az=76.0.
IDC II 22 04 30 32.3–2.2 6.61S 129.32E 0 3.6,3.6L
¶17192675

IDC Error ellipse: s-maj=120.5km s-min=32.7km az=68.0.
IDC II 23 14 33 45.5–2.0 5.83S 128.40E 0 3.4,3.3
¶17192748

IDC Error ellipse: s-maj=129.9km s-min=29.9km az=67.0.
ISC II 23 16 13 05.4–.83 6.7S–.10 129.66E–.10 165 3.4b 12 7-71
ISCJB II 23 16 13 03.5–.66 6.77S–.07 129.71E–.07 165 3.6b ¶17192750
IDC II 23 16 13 06.1–2.5 6.73S 129.69E 170–25 4.0,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=9.0km az=152.9.
IDC Error ellipse: s-maj=30.4km s-min=15.2km az=53.0.
IDC II 23 18 37 53.7–7.1 6.57S 129.94E 132–68 4.3,4.0
¶17192753

IDC Error ellipse: s-maj=58.4km s-min=19.8km az=47.0.
IDC II 24 16 58 27.2–2.3 7.55S 129.17E 0 3.6,3.4
¶17192799

IDC Error ellipse: s-maj=83.7km s-min=31.0km az=76.0.
IDC II 25 08 24 41.6–2.0 6.95S 128.93E 0 3.8,3.8s
¶17192826

IDC Error ellipse: s-maj=122.0km s-min=31.5km az=67.0.
ISC II 25 08 37 13.4–.47 5.38S–.05 129.95E–.04 150 4.2b 52 1-152
ISCJB II 25 08 37 11.4–.30 5.30S–.03 129.84E–.04 150 4.2b ¶16196348
IDC II 25 08 37 14.4–3.9 5.20S 129.83E 164–37 4.4,4.0
NEIC II 25 08 37 15.4–.61 5.26S 129.86E 177–6 4.6b,4.0
DJA II 25 08 37 18.9–.40 5S–4.0 130E–2.0 175–5 5.6b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 25 09 27 22.2–2.1 6.38S 129.46E 0 3.7,3.5
¶17192829

IDC Error ellipse: s-maj=89.5km s-min=27.4km az=76.0.
ISC II 25 15 14 39.7–1.1 7.1S–.20 124.6E–.30 559 3.1b 11 3-124
ISCJB II 25 15 14 38.6–.80 7.0S–.10 124.6E–.20 559 3.2b ¶17192845
IDC II 25 15 14 39.6–2.0 7.12S 124.51E 557–26 3.7,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.5km s-min=11.7km az=155.3.
IDC Error ellipse: s-maj=88.5km s-min=14.2km az=57.0.
IDC II 25 17 08 30.0–2.0 6.64S 129.24E 0 3.6,3.6L
¶17192851

IDC Error ellipse: s-maj=119.6km s-min=30.9km az=68.0.
IDC II 25 17 31 42.4–1.7 7.70S 127.90E 0 3.9L,3.8
¶17192853

IDC Error ellipse: s-maj=250.1km s-min=25.1km az=63.0.
IDC II 25 20 38 48.1–2.2 6.44S 130.38E 0 3.8b,3.5
¶17192864

IDC Error ellipse: s-maj=84.8km s-min=28.4km az=78.0.
IDC II 26 07 16 48.4–1.2 7.36S 129.91E 0 3.8,3.8L
¶17192892

IDC Error ellipse: s-maj=95.3km s-min=21.8km az=68.0.
IDC II 27 06 36 40.7–11 6.44S 128.13E 394–149 3.9,3.3b
¶17192937

IDC Error ellipse: s-maj=111.5km s-min=56.7km az=65.0.
ISC II 27 15 08 28.2–1.9 6.9S–.10 130.23E–.09 146 10 7-68
IDC II 27 15 08 24.6–5.1 6.42S 130.11E 135–52 4.1,3.7 ¶17192957
ISCJB II 27 15 08 26.4–1.5 6.8S–.10 130.23E–.07 146 3.3b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 28 10 26 00.1–7.4 6.42S 127.96E 458–104 3.6,2.9
¶17192990

IDC Error ellipse: s-maj=67.4km s-min=43.8km az=39.0.
IDC III 01 03 14 50.5–2.3 6.87S 129.85E 0 3.7,3.5
¶17193034

IDC Error ellipse: s-maj=82.5km s-min=30.5km az=76.0.
ISC III 01 06 24 12.6–.94 7.48S–.09 128.6E–.20 100 4.0b 12 11-78
IDC III 01 06 24 10.9–5.1 7.22S 128.62E 84–47 4.1,3.9 ¶17193045
ISC Event type ke.
IDC Error ellipse: s-maj=84.3km s-min=18.6km az=66.0.
ISC III 01 09 38 05.1–1.2 7.45S–.09 129.5E–.10 146 3.5b 13 6-112
IDC III 01 09 37 48.7–1.2 6.67S 129.87E 0 4.0,3.9 ¶17193060
ISC Event type ke.
IDC Error ellipse: s-maj=76.7km s-min=19.9km az=71.0.
ISC III 01 11 59 40.3–.44 7.43S–.04 129.27E–.05 150 4.5b 78 2-128
BJI III 01 11 59 35.6 7.53S 129.94E 145 4.8b,4.5b ¶16442165
ISCJB III 01 11 59 38.8–.28 7.41S–.03 129.33E–.04 150 4.3b,4.5b
IDC III 01 11 59 40.0–4.8 7.34S 129.11E 138–49 4.3,3.9
NEIC III 01 11 59 39.7–.80 7.37S 129.33E 145–12 4.6b,3.9
DJA III 01 11 59 42.5–.90 7S–3.0 129E–7.0 102–25 5.8b,5.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC III 01 19 12 45.3–2.5 6.45S 129.75E 0 3.5L,3.4
¶17193090

IDC Error ellipse: s-maj=152.9km s-min=32.8km az=69.0.
IDC III 02 14 43 11.4–2.2 6.09S 130.19E 0 3.5,3.5b
¶17193137

IDC Error ellipse: s-maj=95.8km s-min=27.9km az=77.0.
IDC III 02 21 01 30.6–1.8 6.12S 129.84E 0 3.7L,3.6
¶17193159

IDC Error ellipse: s-maj=130.8km s-min=28.5km az=71.0.
IDC III 03 02 20 54.2–11 7.04S 129.13E 105–129 3.9,3.8L
¶17193169

IDC Error ellipse: s-maj=76.7km s-min=57.4km az=20.0.
IDC III 03 05 45 12.5–4.4 5.82S 129.72E 373–55 3.6,2.9
¶17193174

IDC Error ellipse: s-maj=170.2km s-min=14.5km az=72.0.
ISC III 03 07 27 15.0–.34 6.86S–.04 130.51E–.04 100 4.5b 152 1-151
BJI III 03 07 27 08.0 7.58S 131.11E 118 5.2b,4.6b ¶16301928
ISCJB III 03 07 27 12.7–.22 6.91S–.02 130.60E–.03 100 4.6b,4.6b
IDC III 03 07 27 16.4–2.2 6.74S 130.49E 112–20 4.3,4.0
NEIC III 03 07 27 16.3–.49 6.85S 130.59E 118–5 4.5b,4.0
DJA III 03 07 27 17.8–.20 7S–2.0 131E–2.0 101–5 5.6b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 03 08 12 11.9–.40 6.40S–.03 130.22E–.03 165–3 4.8b 345 2-156
BJI III 03 08 12 06.5 7.16S 129.95E 167 5.0b,4.7b ¶16176486
ISCJB III 03 08 12 11.3–.30 6.41S–.02 130.17E–.02 175–3 4.8b,4.7b
MOS III 03 08 12 11.8–.90 6.31S 130.08E 176 4.9b,4.7b
IDC III 03 08 12 12.0–.70 6.32S 130.07E 159–6 4.9,4.4
GCMT III 03 08 12 12.4–.50 6.32S 130.19E 183–4 5.0W,4.4
NEIC III 03 08 12 12.4–.53 6.37S 130.11E 164–5 5.0b,4.4
DJA III 03 08 12 12.6–.20 6S–2.0 130E–2.0 167–3 5.5b,5.5
ISC Event type fe.
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s64,c82;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.15±.21 $M_{\theta\theta}$-0.18±.23; $M_{\phi\phi}$0.03±.25; $M_{r\theta}$-0.51±.16; $M_{\theta\phi}$2.34±.24; $M_{\phi r}$3.10±.17; Best double couple: NP1:ϕ_s355.00000°,δ89.00000°,λ126.00000°. NP2:ϕ_s87.00000°,δ36.00000°,λ2.00000°. Principal axes: T 3.6890,Plg36.0000°,Azm297.0000°; N 0.4290,Plg36.0000°,Azm174.0000°; P -4.1180,Plg34.0000°,Azm55.0000° $M_0$3.90300×10^{16}
NEIC Event type fe. Felt at Darwin, Australia.
IDC III 03 12 17 54.8–1.9 6.09S 129.98E 0 3.6,3.6L
¶17193185

IDC Error ellipse: s-maj=166.8km s-min=28.1km az=73.0.
IDC III 03 12 24 50.0–1.8 5.57S 128.68E 0 3.5,3.4
¶17193187

IDC Error ellipse: s-maj=142.8km s-min=28.4km az=70.0.
IDC III 03 12 34 06.7–2.6 5.56S 131.13E 0 3.9,3.8
¶17193188

IDC Error ellipse: s-maj=117.6km s-min=28.3km az=78.0.
IDC III 03 18 46 52.7–2.1 6.99S 129.30E 0 3.8,3.7b
¶17193205

IDC Error ellipse: s-maj=128.6km s-min=31.6km az=68.0.
IDC III 03 19 26 39.4–2.2 5.75S 130.47E 0 3.5,3.5L
¶17193206

IDC Error ellipse: s-maj=94.6km s-min=27.8km az=77.0.
ISC III 03 22 08 14.4–1.2 4.9S–.10 129.02E–.08 35 8 1-66
IDC III 03 22 08 08.7–8.3 4.32S 130.38E 0 3.5,3.3 ¶17193210
ISCJB III 03 22 08 12.9–.92 4.91S–.08 129.00E–.08 33 3.2b,3.3
DJA III 03 22 08 12.2–1.4 5S–19 129E–8.0 14–16 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 04 00 06 52.1–.86 6.17S–.08 129.7E–.10 250 4.7b 10 4-95
IDC III 04 00 06 41.4–2.2 6.37S 129.64E 0 4.4,4.3 ¶16403006
ISCJB III 04 00 06 50.9–.78 6.24S–.08 129.5E–.10 250 4.7b,4.3
NEIC III 04 00 06 51.8–1.1 6.31S 129.54E 244–15 4.1b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=149.7km s-min=30.0km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=11.0km az=165.2.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=11.7km az=70.0.
IDC III 04 04 49 56.1–6.4 7.29S 125.30E 507–48 4.1,3.3
¶17193220

IDC Error ellipse: s-maj=110.8km s-min=92.7km az=108.0.
ISC III 04 05 23 07.3–.00 6.35S–.06 130.5E–.10 150 12 2-68
IDC III 04 05 22 55.0–2.5 5.97S 130.52E 0 4.3,4.3L ¶17193221
ISCJB III 04 05 23 06.3–.74 6.31S–.06 130.4E–.10 150 3.5b,4.3L
DJA III 04 05 23 07.8–.40 6S–4.0 131E–7.0 147–10 5.2b,4.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 04 11 00 35.3–8.5 7.60S 128.64E 166–90 3.5,3.2b
¶17193230

IDC Error ellipse: s-maj=85.3km s-min=24.1km az=38.0.
ISC III 04 18 39 37.5–.42 4.09S–.06 127.49E–.06 250 4.1b 86 1-126
BJI III 04 18 39 36.8 4.55S 126.96E 264 4.6b,4.1b ¶16196738
ISCJB III 04 18 39 36.4–.23 4.11S–.04 127.39E–.04 250 4.0b,4.1b
NEIC III 04 18 39 37.7–.48 4.13S 127.39E 250–6 4.3b,4.1b
DJA III 04 18 39 38.0–.70 4S–13 127E–6.0 238–5 4.2b,4.1
IDC III 04 18 39 38.8–2.2 4.15S 127.45E 260–20 4.2,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.7km az=141.9.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=50.0.
IDC Error ellipse: s-maj=53.0km s-min=8.7km az=65.0.
IDC III 04 19 35 44.1–1.6 6.06S 128.96E 0 4.2L,4.0
¶17193245

IDC Error ellipse: s-maj=103.4km s-min=23.4km az=77.0.
ISC III 05 01 52 43.0–.89 7.77S–.07 129.0E–.10 100 3.8b 15 4-146
IDC III 05 01 52 42.0–4.7 7.41S 128.73E 122–44 4.2,3.9 ¶17193257
DJA III 05 01 53 21.7–.70 5S–6.0 129E–9.0 65–29 5.5b,5.4b
ISC Event type ke.
IDC III 05 23 22 13.7–2.3 6.98S 128.78E 0 3.5L,3.4
¶17193312

IDC Error ellipse: s-maj=168.1km s-min=32.3km az=67.0.
IDC III 05 23 31 11.0–15 6.49S 129.53E 86–167 3.5,3.5L
¶17193313

IDC Error ellipse: s-maj=139.4km s-min=60.2km az=41.0.
ISC III 06 15 20 35.5–.73 6.56S–.08 127.9E–.10 353 3.9b 16 6-72
ISCJB III 06 15 20 33.9–.56 6.51S–.06 127.96E–.09 353 3.9b ¶17193358
IDC III 06 15 20 35.9–2.1 6.57S 127.82E 358–24 4.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.1km az=172.5.
IDC Error ellipse: s-maj=27.8km s-min=9.5km az=67.0.
IDC III 06 17 35 21.9–2.4 6.39S 130.39E 0 3.1b,3.0
¶17193367

IDC Error ellipse: s-maj=145.7km s-min=31.6km az=70.0.
IDC III 07 22 26 43.0–2.3 6.57S 130.13E 0 3.8,3.8s
¶17193437

IDC Error ellipse: s-maj=94.2km s-min=28.8km az=77.0.
IDC III 07 23 51 06.2–2.3 7.31S 127.89E 0 3.5,3.5b
¶17193440

IDC Error ellipse: s-maj=287.7km s-min=31.5km az=65.0.
IDC III 08 06 15 41.1–2.3 4.06S 130.27E 0 3.6b,3.6
¶17193454

IDC Error ellipse: s-maj=137.5km s-min=30.3km az=70.0.
IDC III 08 18 20 05.0–2.5 6.90S 129.24E 0 3.7L,3.6
¶17193482

IDC Error ellipse: s-maj=192.9km s-min=32.7km az=68.0.
IDC III 08 18 27 30.0–7.2 7.59S 128.21E 169–78 3.4,2.9
¶17193483

IDC Error ellipse: s-maj=75.9km s-min=26.6km az=36.0.
ISC III 08 20 39 07.7–.71 7.55S–.07 128.84E–.06 131 3.7b 20 2-78
ISCJB III 08 20 39 06.2–.53 7.51S–.06 128.92E–.06 131 3.6b ¶17193493
IDC III 08 20 39 07.5–6.2 7.51S 128.91E 133–62 4.1,3.8
DJA III 08 20 39 08.8–.60 7S–4.0 129E–4.0 147–18 4.9b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 09 12 05.1–.50 6.77S–.06 127.44E–.07 400 4.0b 37 3-109
ISCJB III 09 09 12 04.4–.34 6.73S–.04 127.44E–.06 400 3.9b ¶17193536
DJA III 09 09 12 05.2–.70 7S–5.0 127E–6.0 418–12 5.2b,4.8b
IDC III 09 09 12 06.2–1.4 6.83S 127.31E 416–18 4.4,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=3.6.
IDC Error ellipse: s-maj=20.1km s-min=10.0km az=70.0.
IDC III 09 17 07 55.5–2.2 7.19S 129.16E 0 3.6L,3.4
¶17193569

IDC Error ellipse: s-maj=131.4km s-min=32.7km az=67.0.
IDC III 09 19 25 45.3–2.0 6.03S 130.55E 0 3.7b,3.5
¶17193575

IDC Error ellipse: s-maj=97.4km s-min=30.3km az=70.0.
ISC III 10 03 28 35.9–.96 7.28S–.10 126.7E–.10 407 3.5b 13 4-126
ISCJB III 10 03 28 34.3–.69 7.23S–.07 126.8E–.10 407 3.4b ¶17193599
IDC III 10 03 28 35.4–2.7 7.24S 126.65E 398–30 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=9.3km az=162.5.
IDC Error ellipse: s-maj=52.0km s-min=12.8km az=62.0.
IDC III 10 04 09 27.6–2.1 6.96S 129.45E 0 3.5,3.3
¶17193601

IDC Error ellipse: s-maj=88.7km s-min=28.0km az=76.0.
IDC III 10 11 44 44.6–1.9 6.92S 128.68E 0 3.7,3.7b
¶17193619

IDC Error ellipse: s-maj=105.3km s-min=25.5km az=75.0.
ISC III 10 23 05 36.3–.93 7.15S–.07 129.28E–.10 139 3.7b 13 6-71
NEIC III 10 23 05 27.9–.60 6.49S 129.53E 35 4.2b ¶16407470
IDC III 10 23 05 33.2–8.0 6.80S 129.30E 90–86 3.9,3.9L
ISCJB III 10 23 05 34.9–.76 6.95S–.08 129.24E–.09 139 3.7b,3.9L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 11 04 38 12.7–1.1 4.13S–.06 129.97E–.08 35 9 0-66
IDC III 11 04 38 02.9–5.8 3.19S 132.26E 0 3.6,3.4 ¶602002993
ISCJB III 11 04 38 12.9–.94 4.09S–.06 130.01E–.08 33 3.6b,3.4
DJA III 11 04 38 13.1–.60 4S–12 130E–6.0 31–15 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
ISC III 12 08 45 27.7–.38 7.26S–.05 129.11E–.05 150 4.9b 104 2-151
ISCJB III 12 08 45 26.2–.23 7.27S–.03 129.17E–.03 150 4.9b ¶16308558
BJI III 12 08 45 26.0 7.20S 129.10E 159 5.0b,4.7b
NEIC III 12 08 45 28.5–.55 7.17S 129.15E 162–6 4.9b,4.7b
KLM III 12 08 45 29.3 7.36S 129.06E 159 6.1s,5.1b
IDC III 12 08 45 29.0–2.1 7.10S 129.17E 170–21 4.9,4.4
DJA III 12 08 45 30.4–.20 7S–2.0 129E–2.0 145–4 5.5b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 14 09 22 31.8–.50 6.49S–.06 130.13E–.09 100 4.5b 38 4-151
ISCJB III 14 09 22 30.9–.35 6.36S–.05 130.00E–.07 100 4.5b ¶16477805
IDC III 14 09 22 35.0–3.2 6.23S 130.30E 123–31 4.6,4.2
NEIC III 14 09 22 35.4–1.1 6.25S 130.20E 126–11 4.4b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.0km az=162.0.
IDC Error ellipse: s-maj=22.9km s-min=16.1km az=69.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=7.7km az=84.0.
IDC III 14 17 51 52.2–2.2 5.52S 130.32E 0 4.0,3.9L
¶17195223

IDC Error ellipse: s-maj=56.0km s-min=29.3km az=81.0.
IDC III 15 17 42 43.2–3.2 6.39S 127.74E 413–34 4.0,3.3
¶17196204

IDC Error ellipse: s-maj=49.2km s-min=14.8km az=65.0.
IDC III 15 18 02 11.7–10 6.99S 130.86E 152–82 3.6,3.5b
¶17196206

IDC Error ellipse: s-maj=137.3km s-min=64.4km az=85.0.
IDC III 16 01 04 33.9–8.7 7.22S 129.69E 168–89 3.8,3.3
¶17196306

IDC Error ellipse: s-maj=92.4km s-min=29.9km az=46.0.
IDC III 16 20 25 33.4–5.4 7.61S 124.57E 155–51 3.7,3.4
¶16478653

IDC Error ellipse: s-maj=40.8km s-min=13.9km az=68.0.
ISC III 17 00 12 59.8–.87 6.61S–.07 130.34E–.10 150 11 2-68
IDC III 17 00 12 42.7–1.6 6.22S 130.16E 0 5.8s,5.8 ¶17196572
DJA III 17 00 13 00.4–.40 7S–3.0 130E–5.0 150–8 4.5b,4.3
ISC Event type ke.
IDC III 17 14 36 43.5–2.5 5.77S 130.18E 0 3.5b,3.2
¶17196745

IDC Error ellipse: s-maj=151.7km s-min=32.3km az=70.0.
DJA III 17 18 01 09.6–.50 6S–4.0 131E–5.0 102–10 4.9b,4.2
¶602003197
IDC III 17 19 20 48.7–1.6 6.78S 128.93E 0 4.0,4.0L
¶17196781

IDC Error ellipse: s-maj=51.6km s-min=27.7km az=78.0.
ISC III 17 21 10 24.8–.73 6.61S–.08 127.6E–.10 408 3.7b 18 3-152
ISCJB III 17 21 10 23.7–.56 6.60S–.07 127.58E–.10 408 3.5b ¶17196815
IDC III 17 21 10 26.5–2.8 6.64S 127.43E 431–35 4.0,3.3
DJA III 17 21 10 56.2–.50 3S–8.0 129E–6.0 257–6 4.9b,4.8b
ISC Event type ke.
ISCJB Event type ke.
IDC III 18 10 01 37.3–10 7.64S 127.91E 171–84 3.9,3.6b
¶17196988

IDC Error ellipse: s-maj=132.5km s-min=59.8km az=30.0.
IDC III 18 14 06 27.9–2.1 6.73S 129.09E 0 3.5,3.4L
¶17197023

IDC Error ellipse: s-maj=151.8km s-min=31.0km az=67.0.
IDC III 18 15 36 05.8–1.8 6.81S 128.59E 0 3.6b,3.4
¶17197045

IDC Error ellipse: s-maj=145.6km s-min=30.4km az=68.0.
IDC III 18 15 58 41.2–2.7 6.56S 128.48E 61–33 4.2b,3.7
¶17197052

IDC Error ellipse: s-maj=46.1km s-min=24.3km az=104.0.
IDC III 19 12 26 59.7–10 6.63S 129.20E 145–108 3.5,3.5L
¶17197232

IDC Error ellipse: s-maj=115.5km s-min=31.2km az=49.0.
ISC III 19 14 47 13.8–.73 6.82S–.08 127.50E–.10 400 3.6b 15 5-126
ISCJB III 19 14 47 12.4–.62 6.74S–.07 127.59E–.08 400 3.4b ¶17197260
IDC III 19 14 47 15.3–1.8 6.80S 127.44E 420–24 4.0,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=8.5km az=155.5.
IDC Error ellipse: s-maj=30.1km s-min=13.5km az=54.0.
IDC III 19 16 26 01.5–4.9 7.84S 127.87E 195–51 3.9,3.4
¶17197272

IDC Error ellipse: s-maj=54.9km s-min=19.9km az=49.0.
IDC III 20 13 30 07.7–1.7 6.80S 128.64E 0 4.1L,3.9
¶17197468

IDC Error ellipse: s-maj=112.3km s-min=30.6km az=67.0.
IDC III 20 18 51 39.1–1.7 6.49S 128.75E 0 3.9L,3.7
¶17197531

IDC Error ellipse: s-maj=57.5km s-min=28.7km az=78.0.
ISC III 21 01 41 51.0–1.4 6.3S–.10 129.1E–.20 209 3.6b 8 7-71
IDC III 21 01 41 47.0–9.6 5.95S 129.28E 160–98 3.9,3.5 ¶17197604
ISCJB III 21 01 41 49.8–.97 6.13S–.09 129.1E–.20 209 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 14 54 39.5–1.1 6.60S–.09 130.31E–.10 146 11 7-68
ISCJB III 21 14 54 38.0–.98 6.39S–.09 130.29E–.08 146 3.7b ¶17197688
IDC III 21 14 54 40.1–5.9 6.39S 130.22E 155–65 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=10.6km az=0.7.
IDC Error ellipse: s-maj=50.7km s-min=21.5km az=28.0.
ISC III 21 15 22 21.0–.31 5.92S–.04 127.21E–.05 450 4.5b 228 3-127
BJI III 21 15 22 19.1 5.90S 127.20E 442 4.5b,4.3b ¶16447670
IDC III 21 15 22 20.8–1.1 5.89S 127.14E 446–14 4.8,4.0
ISCJB III 21 15 22 20.2–.16 5.89S–.02 127.21E–.02 450 4.5b,4.0
KLM III 21 15 22 20.6 6.17S 127.26E 427 5.8s,5.2b
DJA III 21 15 22 21.5–.20 6S–3.0 127E–2.0 440–3 5.2,5.0b
NEIC III 21 15 22 21.1–.26 5.90S 127.18E 452–3 4.7b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=10.5km s-min=8.5km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.9km az=144.9.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=217.0.
IDC III 21 18 48 05.6–2.2 6.99S 128.71E 0 3.7,3.7L
¶17197736

IDC Error ellipse: s-maj=174.1km s-min=31.9km az=66.0.
IDC III 21 21 00 11.3–2.4 5.07S 129.87E 0 3.9,3.8L
¶17197758

IDC Error ellipse: s-maj=104.0km s-min=29.9km az=75.0.
IDC III 22 07 01 59.6–2.2 6.67S 128.94E 0 4.1,3.9
¶17197946

IDC Error ellipse: s-maj=157.2km s-min=30.9km az=67.0.
ISC III 22 19 40 43.6–.57 7.71S–.04 127.64E–.04 144–5 4.8b 392 4-162
BJI III 22 19 40 36.2 8.19S 128.02E 137 5.1b,5.0b ¶16342640
ISCJB III 22 19 40 43.7–.33 7.75S–.02 127.70E–.02 168–3 4.8b,5.0b
NEIC III 22 19 40 44.5–.51 7.61S 127.64E 150–4 5.0b,5.0b
IDC III 22 19 40 44.5–1.6 7.52S 127.55E 144–14 4.7,4.4
GCMT III 22 19 40 44.5–.40 7.67S 127.26E 133–4 5.0W,4.4
MOS III 22 19 40 44.9–.90 7.46S 127.55E 161 4.8b,4.4
KLM III 22 19 40 45.2 7.94S 127.63E 155 6.2s,5.2b
DJA III 22 19 40 46.1–.20 8S–2.0 128E–2.0 154–3 5.3,5.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c20; s67,c85;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.18 $M_{\theta\theta}$-2.99±.21; $M_{\phi\phi}$1.18±.25; $M_{r\theta}$0.93±.13; $M_{\theta\phi}$2.34±.20; $M_{\phi r}$1.77±.15; Best double couple: NP1:ϕ_s78.00000°,δ63.00000°,λ33.00000°. NP2:ϕ_s331.00000°,δ61.00000°,λ148.00000°. Principal axes: T 4.0290,Plg42.0000°,Azm295.0000°; N 0.0140,Plg48.0000°,Azm112.0000°; P -4.0420,Plg1.0000°,Azm204.0000° M_θ4.03500×10^{16}
IDC III 23 05 55 48.6–1.6 7.88S 127.30E 0 4.0,4.0b
¶17198133

IDC Error ellipse: s-maj=162.3km s-min=29.4km az=66.0.
IDC III 23 06 17 01.9–7.7 7.30S 128.79E 118–82 3.9,3.9s
¶17198134

IDC Error ellipse: s-maj=69.7km s-min=28.5km az=30.0.
IDC III 23 18 58 56.4–1.4 7.21S 127.74E 0 3.8,3.7
¶17198234

IDC Error ellipse: s-maj=39.3km s-min=21.2km az=87.0.
ISC III 24 18 21 34.4–1.4 6.8S–.10 129.1E–.20 35 4.0b 10 6-72
IDC III 24 18 21 29.1–1.3 6.64S 129.20E 0 4.2,4.2L ¶16480680
NEIC III 24 18 21 36.0–3.8 6.89S 129.01E 50–39 4.4b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=52.1km s-min=22.8km az=70.0.
NEIC Event type se. Error ellipse: s-maj=44.4km s-min=13.9km az=216.0.
IDC III 24 20 44 17.1–1.8 5.77S 130.54E 0 3.8,3.7
¶17198405

IDC Error ellipse: s-maj=90.0km s-min=24.7km az=80.0.
IDC III 25 00 19 13.6–8.8 6.94S 129.34E 185–82 3.9,3.4
¶17198433

IDC Error ellipse: s-maj=87.6km s-min=34.5km az=32.0.
ISC III 25 14 32 23.1–.46 7.47S–.05 128.53E–.05 151 4.2b 51 3-151
ISCJB III 25 14 32 21.6–.32 7.43S–.03 128.53E–.03 151 4.0b ¶16480844
NEIC III 25 14 32 23.2–.86 7.42S 128.55E 148–9 4.5b
DJA III 25 14 32 23.8–.30 7S–4.0 128E–2.0 152–7 5.9b,5.6
IDC III 25 14 32 24.3–2.9 7.43S 128.40E 155–27 4.4,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.8km az=142.7.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=8.5km az=89.0.
IDC Error ellipse: s-maj=24.5km s-min=12.0km az=74.0.
ISC III 25 21 22 18.1–.82 6.57S–.07 130.6E–.10 100 3.6b 14 6-78
IDC III 25 21 22 19.3–2.5 6.56S 130.58E 99–24 4.0,3.7 ¶17198555
ISC Event type ke.
IDC Error ellipse: s-maj=35.1km s-min=17.8km az=80.0.
ISC III 27 01 52 12.8–.44 5.26S–.05 130.16E–.06 200 4.1b 61 1-152
NEIC III 27 01 52 11.8–.59 5.21S 129.99E 179–6 4.4b ¶16362949
IDC III 27 01 52 11.8–3.0 5.21S 129.99E 176–29 4.5,4.1s
ISCJB III 27 01 52 11.7–.27 5.23S–.03 130.14E–.05 200 4.0b,4.1s
DJA III 27 01 52 13.5–.30 5S–3.0 130E–3.0 185–5 5.5b,5.0b
ISC Event type se.

NEIC Event type se.
ISCJB Event type se.
IDC III 27 11 44 14.1–9.9 6.95S 129.11E 101–94 3.8,3.8L
¶17198784

IDC Error ellipse: s-maj=111.5km s-min=26.9km az=49.0.
IDC III 27 14 48 52.9–2.0 6.04S 129.96E 0 3.9,3.7
¶17198802

IDC Error ellipse: s-maj=55.3km s-min=29.9km az=78.0.
ISC III 27 19 38 39.1–.52 7.68S–.05 128.05E–.05 142 3.7b 46 3-127
IDC III 27 19 38 35.7–3.6 7.53S 128.01E 100–34 4.1,3.9 ¶17198839
ISCJB III 27 19 38 38.2–.32 7.66S–.04 128.02E–.04 142 3.8b,3.9
DJA III 27 19 38 40.2–.20 8S–2.0 128E–2.0 131–9 5.4b,5.3b
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 01 14 23.6–.91 6.2S–.10 130.2E–.40 146 3.6b 10 14-93
IDC III 28 01 14 24.7–13 5.80S 130.20E 144–144 4.2L,3.9 ¶17198878
ISC Event type ke.
IDC Error ellipse: s-maj=96.5km s-min=33.3km az=41.0.
IDC III 28 12 25 41.8–6.3 7.47S 129.57E 167–64 3.8,3.4
¶17198946

IDC Error ellipse: s-maj=58.3km s-min=23.3km az=46.0.
IDC III 28 13 33 27.5–2.2 6.57S 129.47E 0 3.8L,3.7
¶17198956

IDC Error ellipse: s-maj=122.9km s-min=33.1km az=68.0.
ISC III 28 16 22 12.9–.69 7.73S–.06 128.43E–.10 100 3.8b 18 5-151
ISCJB III 28 16 22 11.5–.55 7.61S–.05 128.30E–.08 100 3.8b ¶17198972
IDC III 28 16 22 14.1–3.3 7.60S 128.34E 106–35 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=7.5km az=178.5.
IDC Error ellipse: s-maj=34.2km s-min=21.5km az=65.0.
IDC III 29 09 42 19.9–9.6 7.51S 128.51E 135–99 3.6,3.6L
¶17199055

IDC Error ellipse: s-maj=115.5km s-min=30.7km az=43.0.
ISC III 30 22 48 24.2–.61 6.76S–.07 127.43E–.09 400 3.7b 19 4-81
ISCJB III 30 22 48 23.1–.47 6.74S–.05 127.39E–.08 400 3.6b ¶17199236
IDC III 30 22 48 26.1–1.9 6.81S 127.35E 425–26 4.3,3.5
DJA III 30 22 48 29.4–.40 7S–3.0 127E–6.0 10 5.3b,5.2b
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 00 33 06.5–2.5 6.42S 130.20E 0 3.9,3.7
¶17199242

IDC Error ellipse: s-maj=151.9km s-min=32.1km az=70.0.
IDC III 31 08 52 33.8–2.5 6.80S 127.70E 0 3.3,3.2
¶17199275

IDC Error ellipse: s-maj=314.3km s-min=31.0km az=65.0.
IDC III 31 18 01 29.5–2.4 6.89S 130.01E 0 3.8,3.8s
¶17199332

IDC Error ellipse: s-maj=146.1km s-min=32.7km az=69.0.
IDC IV 01 00 33 40.9–1.4 7.14S 127.50E 0 4.2,4.2L
¶17199367

IDC Error ellipse: s-maj=94.1km s-min=21.7km az=68.0.
IDC IV 01 12 40 47.7–2.1 5.89S 130.57E 0 3.7s,3.7
¶17199419

IDC Error ellipse: s-maj=77.0km s-min=28.0km az=77.0.
IDC IV 01 17 51 25.3–8.1 7.52S 128.42E 158–86 3.8,3.4
¶17199450

IDC Error ellipse: s-maj=79.8km s-min=24.8km az=37.0.
ISC IV 02 01 55 03.3–.70 6.91S–.07 127.0E–.10 407 3.5b 15 5-70
ISCJB IV 02 01 55 01.7–.58 6.85S–.05 127.1E–.10 407 3.5b ¶17199484
IDC IV 02 01 55 04.2–1.6 6.96S 126.83E 421–24 4.1,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.4km az=179.1.
IDC Error ellipse: s-maj=33.7km s-min=10.4km az=70.0.
ISC IV 03 02 09 04.2–.56 7.71S–.06 127.85E–.08 150 3.7b 49 3-151
ISCJB IV 03 02 09 03.4–.35 7.62S–.04 127.89E–.04 150 3.6b ¶16455824
IDC IV 03 02 09 03.5–1.9 7.69S 127.46E 139–18 4.2,3.8
DJA IV 03 02 09 05.6–.20 8S–3.0 128E–2.0 189–13 5.3b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 03 43 30.3–1.1 7.6S–.40 128.7E–1.0 131 3.6b 7 13-78
IDC IV 03 03 43 27.6–9.1 7.52S 128.51E 101–93 4.1L,3.9 ¶17199607
ISC Event type ke.
IDC Error ellipse: s-maj=152.8km s-min=34.9km az=67.0.
ISC IV 03 08 00 37.8–.76 6.96S–.10 125.5E–.20 511 3.5b 12 4-124
ISCJB IV 03 08 00 36.8–.65 6.88S–.08 125.6E–.20 511 3.5b ¶17199631
IDC IV 03 08 00 38.8–1.3 7.01S 125.54E 533–18 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=10.7km az=1.8.
IDC Error ellipse: s-maj=34.1km s-min=16.2km az=74.0.
IDC IV 03 19 20 25.4–2.3 6.76S 130.37E 0 3.3,3.3b
¶17199693

IDC Error ellipse: s-maj=137.4km s-min=31.9km az=70.0.
IDC IV 03 22 16 02.7–7.0 7.13S 129.92E 234–76 3.6,3.0
¶17199707

IDC Error ellipse: s-maj=106.6km s-min=30.3km az=72.0.
IDC IV 03 22 29 38.0–1.7 6.68S 128.32E 0 3.5,3.3
¶17199709

IDC Error ellipse: s-maj=195.2km s-min=29.1km az=69.0.
IDC IV 04 03 00 33.5–1.8 7.56S 124.12E 0 4.1L,4.1
¶17199729

IDC Error ellipse: s-maj=130.1km s-min=26.9km az=64.0.
IDC IV 04 11 54 47.3–2.2 6.77S 129.59E 0 3.8,3.7L
¶17199765

IDC Error ellipse: s-maj=86.1km s-min=29.0km az=76.0.
IDC IV 04 20 08 29.0–1.7 6.93S 129.01E 0 3.8,3.7
¶17199807

IDC Error ellipse: s-maj=81.6km s-min=25.4km az=76.0.
ISC IV 05 11 10 27.6–.75 7.60S–.07 129.11E–.10 131 3.8b 15 6-73
ISCJB IV 05 11 10 26.0–.65 7.47S–.06 129.11E–.08 131 3.7b ¶17199884
IDC IV 05 11 10 32.2–4.2 7.66S 128.85E 178–46 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.6km az=172.5.
IDC Error ellipse: s-maj=39.6km s-min=19.0km az=44.0.
ISC IV 06 06 47 55.3–.92 7.2S–.10 124.7E–.20 559 3.6b 11 3-124
ISCJB IV 06 06 47 54.5–.73 7.1S–.10 124.8E–.20 559 3.6b ¶17199978
IDC IV 06 06 47 56.1–1.4 7.19S 124.68E 569–21 4.2,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=10.3km az=155.7.
IDC Error ellipse: s-maj=51.4km s-min=15.1km az=60.0.
IDC IV 06 06 57 02.2–1.7 6.68S 129.77E 0 3.9L,3.8
¶17199979

IDC Error ellipse: s-maj=128.9km s-min=29.5km az=72.0.
DJA IV 06 10 14 39.7–.70 4S–5.0 129E–3.0 121–7 4.0,4.0
¶602003868

ISC IV 06 18 40 09.5–.83 6.19S–.07 129.93E–.07 146 3.9b 23 2-68
IDC IV 06 18 39 52.3–1.5 5.52S 130.58E 0 4.3,4.3L ¶16587444
ISCJB IV 06 18 40 08.7–.46 6.25S–.04 130.01E–.06 146 3.6b,4.3L
NEIC IV 06 18 40 09.3–1.1 6.15S 130.02E 149–15 4.5b,4.3L
DJA IV 06 18 40 11.0–.40 6S–3.0 130E–3.0 173–11 5.3b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 06 19 41 36.2–1.6 6.26S 130.14E 0 4.3L,4.2
¶17200043

IDC Error ellipse: s-maj=46.8km s-min=23.5km az=74.0.
IDC IV 06 22 01 44.3–2.0 6.61S 129.36E 0 3.5,3.5L
¶17200058

IDC Error ellipse: s-maj=118.0km s-min=31.0km az=68.0.
IDC IV 07 21 21 07.8–2.2 6.26S 129.67E 0 4.0L,3.7
¶17200167

IDC Error ellipse: s-maj=147.5km s-min=30.8km az=69.0.
IDC IV 07 21 25 46.8–2.2 6.37S 128.21E 0 3.9,3.7L
¶17200168

IDC Error ellipse: s-maj=125.0km s-min=32.6km az=66.0.
ISC IV 08 00 56 53.5–.51 7.84S–.04 123.43E–.04 252–4 4.7b 383 1-162
BJI IV 08 00 56 47.3 8.25S 124.11E 249 4.8b,4.5b ¶16414240
MOS IV 08 00 56 51.8–1.0 7.73S 123.50E 248 4.8b,4.5b
ISCJB IV 08 00 56 52.5–.26 7.84S–.02 123.44E–.02 254–3 4.6b,4.5b
IDC IV 08 00 56 53.5–1.0 7.81S 123.48E 251–9 4.8,4.3
NEIC IV 08 00 56 53.3–.34 7.82S 123.42E 250–3 5.0b,4.3
DJA IV 08 00 56 53.8–.10 8S–2.0 123E–1.0 237–3 5.3b,5.0
KLM IV 08 00 56 53.9 7.80S 123.55E 240 5.8s,5.0b
ISC Event type se.
MOS Error ellipse: s-maj=10.1km s-min=6.8km az=119.8.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=140.2.
IDC Error ellipse: s-maj=8.8km s-min=6.4km az=63.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=50.0.
IDC IV 08 03 10 44.8–6.9 7.46S 128.15E 148–68 4.1,3.8
¶17200195

IDC Error ellipse: s-maj=64.9km s-min=21.1km az=44.0.
IDC IV 08 16 56 54.7–2.0 6.51S 128.46E 0 3.2b,3.2
¶17200264

IDC Error ellipse: s-maj=118.9km s-min=30.8km az=66.0.
ISC IV 09 10 29 13.9–.78 5.82S–.07 129.2E–.20 264 3.5b 13 12-71
ISCJB IV 09 10 29 13.0–.61 5.67S–.05 129.2E–.20 264 3.5b ¶17200326
IDC IV 09 10 29 21.6–2.2 5.98S 128.80E 349–23 3.9,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=6.7km az=171.1.
IDC Error ellipse: s-maj=27.6km s-min=9.7km az=75.0.
ISC IV 09 17 12 36.4–1.1 6.48S–.08 130.5E–.10 200 15 2-68
IDC IV 09 17 12 24.3–2.5 6.18S 129.82E 0 3.9,3.9L ¶16577776
ISCJB IV 09 17 12 36.3–.85 6.38S–.07 130.4E–.10 200 3.6b,3.9L
NEIC IV 09 17 12 36.9–.68 6.33S 130.29E 184–10 4.0b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=155.3km s-min=32.8km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=8.9km az=163.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.2km az=77.0.
IDC IV 09 19 52 54.0–2.6 5.84S 130.54E 0 3.7,3.5
¶17200365

IDC Error ellipse: s-maj=120.3km s-min=28.7km az=77.0.
IDC IV 09 20 23 12.2–4.2 6.24S 130.87E 118–54 3.8,3.6b
¶17200371

IDC Error ellipse: s-maj=137.8km s-min=24.0km az=80.0.
IDC IV 09 21 06 53.7–2.4 6.67S 129.97E 0 3.5,3.4L
¶17200376

IDC Error ellipse: s-maj=145.0km s-min=32.5km az=69.0.
IDC IV 10 00 15 23.9–11 7.05S 128.71E 75–129 3.7,3.7L
¶17200391

IDC Error ellipse: s-maj=104.9km s-min=59.5km az=43.0.
IDC IV 10 02 08 48.9–13 6.41S 130.50E 185–126 4.0,3.6
¶17200405

IDC Error ellipse: s-maj=250.2km s-min=38.8km az=62.0.
ISC IV 11 05 43 12.0–1.0 6.67S–.10 130.2E–.10 146 3.9b 11 7-129
ISCJB IV 11 05 43 10.2–.94 6.53S–.08 130.16E–.08 146 3.7b ¶17200529
IDC IV 11 05 43 14.0–4.5 6.65S 130.03E 166–45 4.0,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=10.6km az=135.2.
IDC Error ellipse: s-maj=40.0km s-min=17.1km az=45.0.
ISC IV 12 04 57 58.2–.65 7.90S–.08 127.5E–.10 150 3.9b 19 10-151
ISCJB IV 12 04 57 56.7–.60 7.75S–.08 127.4E–.20 150 3.8b ¶17200729
IDC IV 12 04 57 58.0–3.8 7.65S 127.47E 144–35 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.1km s-min=8.0km az=155.9.
IDC Error ellipse: s-maj=31.2km s-min=13.3km az=59.0.
ISC IV 13 09 57 00.9–.26 4.62S–.03 126.71E–.04 400 4.6b 295 3-155
BJI IV 13 09 56 55.8 5.06S 127.05E 411 4.5b,4.5b ¶16423587
ISCJB IV 13 09 56 59.7–.14 4.55S–.02 126.73E–.02 400 4.5b,4.5b
IDC IV 13 09 57 01.0–.68 4.63S 126.64E 400–7 5.0,4.3
NEIC IV 13 09 57 00.9–.32 4.61S 126.68E 402–3 4.7b,4.3
MOS IV 13 09 57 00.3–.78 4.58S 126.65E 413 4.6b,4.3
DJA IV 13 09 57 02.6–.40 5S–3.0 127E–3.0 382–9 5.2,5.2b
KLM IV 13 09 57 03.2 4.69S 126.73E 459 5.8s,4.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.6km az=164.6.
IDC Error ellipse: s-maj=9.3km s-min=5.7km az=77.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.3km az=63.0.
MOS Error ellipse: s-maj=11.3km s-min=5.7km az=110.4.
IDC IV 13 11 17 13.8–8.0 6.54S 129.24E 128–82 3.9,3.5b
¶17200891

IDC Error ellipse: s-maj=67.6km s-min=27.5km az=38.0.
ISC IV 14 01 20 22.3–.74 7.79S–.08 127.52E–.08 200 3.8b 24 4-127
IDC IV 14 01 20 12.2–4.2 7.21S 128.14E 82–42 4.3L,4.2 ¶17200973
ISCJB IV 14 01 20 19.8–.43 7.88S–.05 127.61E–.05 200 3.7b,4.2
DJA IV 14 01 20 21.0–.70 8S–4.0 128E–4.0 203–18 5.4b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 14 02 05 26.6–.99 6.44S–.07 130.3E–.10 90 10 2-68
IDC IV 14 02 05 17.4–2.4 5.71S 130.82E 0 4.3,4.2L ¶17200979
ISCJB IV 14 02 05 27.2–.74 6.29S–.05 130.2E–.10 90 3.8b,4.2L
DJA IV 14 02 05 41.4–.60 5S–5.0 130E–5.0 74–15 4.9b,4.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 14 04 31 09.1–8.1 7.67S 128.54E 175–87 3.7,3.2
¶17200983

IDC Error ellipse: s-maj=84.2km s-min=23.8km az=38.0.
IDC IV 14 19 44 16.3–4.1 5.82S 127.24E 359–47 3.2,2.6b
¶17201055

IDC Error ellipse: s-maj=149.7km s-min=16.4km az=67.0.
ISC IV 14 20 56 08.4–.58 6.70S–.07 125.5E–.10 544 3.6b 37 4-124
ISCJB IV 14 20 56 07.6–.34 6.61S–.05 125.51E–.07 544 3.6b ¶17201061
IDC IV 14 20 56 08.2–1.2 6.63S 125.60E 536–15 4.2,3.4
DJA IV 14 20 56 08.4–.60 7S–7.0 126E–4.0 531–15 4.7,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 16 06 20 01.7–.52 7.02S–.05 129.69E–.04 150 4.2b 40 2-129
IDC IV 16 06 19 51.6–3.2 6.67S 130.10E 42–28 4.6L,4.5 ¶16532031
ISCJB IV 16 06 19 59.4–.37 7.21S–.04 129.80E–.04 150 4.2b,4.5
NEIC IV 16 06 19 60.0–1.1 7.11S 129.73E 123–12 4.4b,4.5
DJA IV 16 06 20 01.1–.20 7S–2.0 130E–3.0 166–7 5.4b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 16 21 57 30.6–1.2 7.0S–.10 128.2E–.20 35 3.8b 11 11-72
IDC IV 16 21 57 26.1–1.5 6.96S 128.09E 0 4.4L,4.3 ¶16532030
ISCJB IV 16 21 57 28.8–.78 7.1S–.10 128.1E–.20 35 3.7b,4.3
NEIC IV 16 21 57 30.8–.65 7.00S 128.18E 35 4.1b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=87.1km s-min=23.8km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=28.6km s-min=8.2km az=153.7.
NEIC Event type se. Error ellipse: s-maj=22.6km s-min=8.0km az=65.0.
IDC IV 16 22 08 39.3–2.1 6.75S 128.95E 0 3.8,3.8s
¶17201267

IDC Error ellipse: s-maj=134.1km s-min=32.4km az=67.0.
IDC IV 16 23 22 24.9–1.9 6.40S 128.76E 0 3.7,3.7b
¶17201270

IDC Error ellipse: s-maj=163.5km s-min=29.0km az=67.0.
ISC IV 17 09 32 39.1–.87 7.21S–.09 129.2E–.10 156 3.5b 11 6-72
ISCJB IV 17 09 32 37.4–.67 7.25S–.06 129.23E–.08 156 3.5b ¶17201301
IDC IV 17 09 32 39.3–2.1 7.14S 129.08E 148–21 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.1km az=178.9.
IDC Error ellipse: s-maj=21.9km s-min=15.8km az=82.0.

IDC IV 17 10 39 30.4–12 4.31S 125.25E 0 3.5,3.3 ¶17201307

IDC Error ellipse: s-maj=238.3km s-min=179.1km az=63.0.
IDC IV 17 16 35 00.7–1.9 7.73S 129.56E 0 3.9L,3.8 ¶17201340

IDC Error ellipse: s-maj=87.4km s-min=28.0km az=70.0.
IDC IV 17 22 35 18.0–6.9 6.76S 128.05E 388–86 4.1,3.4 ¶17201367

IDC Error ellipse: s-maj=68.3km s-min=28.3km az=57.0.
ISC IV 18 04 47 31.4–.65 7.53S–.06 125.58E–.09 350 3.6b 21 3-125
ISCJB IV 18 04 47 30.7–.51 7.39S–.05 125.60E–.06 350 3.5b **¶17201391**
IDC IV 18 04 47 33.2–2.2 7.59S 125.40E 379–25 3.9,3.3b
DJA IV 18 04 47 33.1–.50 8S–5.0 126E–5.0 332–12 4.6b,4.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 18 09 49 04.6–4.9 7.31S 127.59E 280–68 3.8,3.2 ¶17201403

IDC Error ellipse: s-maj=66.1km s-min=47.5km az=79.0.
IDC IV 18 17 40 13.5–2.2 6.61S 129.86E 0 3.7,3.6b ¶17201434

IDC Error ellipse: s-maj=145.2km s-min=31.0km az=69.0.
ISC IV 19 15 46 52.0–2.2 4.6S–.20 126.3E–.10 398 8 6-31
IDC IV 19 15 46 54.2–3.9 4.69S 125.98E 433–57 3.8,3.1 **¶17201516**
ISC Event type ke.
IDC Error ellipse: s-maj=75.6km s-min=30.9km az=62.0.
IDC IV 19 19 44 51.7–2.0 7.05S 128.86E 0 3.3,3.3b ¶17201536

IDC Error ellipse: s-maj=132.2km s-min=31.6km az=67.0.
ISC IV 20 02 33 34.7–.80 6.5S–.10 129.9E–.10 146 4.0b 12 4-151
IDC IV 20 02 33 26.8–12 6.16S 130.39E 67–112 4.2,4.2L **¶16577852**
NEIC IV 20 02 33 31.3–1.6 6.57S 129.66E 104–19 4.1b,4.2L
ISCJB IV 20 02 33 33.4–.65 6.50S–.08 130.1E–.10 146 4.0b,4.2L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 20 16 01 02.8–2.4 6.70S 129.61E 0 3.5,3.4b ¶17201627

IDC Error ellipse: s-maj=97.7km s-min=29.1km az=76.0.
IDC IV 20 16 25 55.6–2.1 7.36S 129.90E 0 3.7,3.6L ¶17201628

IDC Error ellipse: s-maj=79.2km s-min=27.8km az=77.0.
IDC IV 21 09 42 57.0–1.8 5.93S 130.38E 0 4.2,4.2s ¶17201702

IDC Error ellipse: s-maj=57.9km s-min=27.6km az=66.0.
IDC IV 21 15 31 31.3–2.3 6.38S 129.57E 0 3.9,3.7 ¶17201724

IDC Error ellipse: s-maj=108.3km s-min=27.4km az=76.0.
IDC IV 21 21 52 11.1–2.2 7.07S 129.05E 0 3.6,3.6L ¶17201750

IDC Error ellipse: s-maj=137.2km s-min=32.6km az=67.0.
IDC IV 22 06 23 16.8–1.4 7.12S 124.65E 0 4.0b,3.8 ¶17201791

IDC Error ellipse: s-maj=49.3km s-min=24.2km az=64.0.
IDC IV 22 15 14 00.4–7.9 7.56S 129.45E 399–103 3.3,2.9b ¶17201823

IDC Error ellipse: s-maj=69.4km s-min=43.5km az=48.0.
IDC IV 23 09 35 25.1–2.3 6.40S 129.72E 0 3.7,3.7L ¶17201869

IDC Error ellipse: s-maj=91.8km s-min=29.1km az=76.0.
IDC IV 23 20 49 26.4–3.3 7.30S 125.50E 418–43 3.8,3.1 ¶17201908

IDC Error ellipse: s-maj=84.4km s-min=16.6km az=54.0.
ISC IV 24 13 54 51.9–.33 6.94S–.04 130.07E–.05 104 4.5b 152 2-151
ISCJB IV 24 13 54 50.2–.21 6.96S–.03 130.06E–.03 104 4.5b **¶16476075**
BJI IV 24 13 54 50.2 6.96S 130.15E 115 4.9b,4.8b
NEIC IV 24 13 54 51.1–.83 6.91S 130.06E 98–8 4.6b,4.8b
IDC IV 24 13 54 53.4–1.6 6.78S 129.91E 111–14 4.5,4.1
DJA IV 24 13 54 54.3–.20 7S–2.0 130E–2.0 102–4 5.5b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 24 14 44 59.1–1.1 7.64S–.09 129.0E–.10 131 3.5b 11 6-72
IDC IV 24 14 44 55.1–6.5 7.27S 129.06E 91–64 3.8,3.8L **¶17201967**
ISCJB IV 24 14 44 56.9–.93 7.52S–.08 129.03E–.08 131 3.5b,3.8L
ISC Event type ke.
ISCJB Event type ke.
IDC IV 25 11 20 45.3–8.4 7.34S 125.16E 348–61 3.6,3.1b ¶17202045

IDC Error ellipse: s-maj=123.5km s-min=118.3km az=1.0.
IDC IV 25 16 58 52.4–2.1 6.44S 129.65E 0 4.4,4.4s ¶17202063

IDC Error ellipse: s-maj=79.9km s-min=25.2km az=72.0.
IDC IV 25 17 51 58.2–2.3 6.73S 129.15E 0 3.4,3.3 ¶17202065

IDC Error ellipse: s-maj=82.8km s-min=31.0km az=76.0.
ISC IV 26 05 37 22.1–.47 6.24S–.04 130.45E–.06 124 4.2b 50 2-151
ISCJB IV 26 05 37 20.0–.32 6.27S–.03 130.43E–.05 124 4.3b **¶16649423**
NEIC IV 26 05 37 21.1–2.0 6.30S 130.41E 118–20 4.4b
IDC IV 26 05 37 22.3–2.1 6.22S 130.44E 124–19 4.3,4.0
DJA IV 26 05 37 23.4–.40 6S–2.0 131E–3.0 121–7 5.3b,4.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 26 11 19 30.5–.89 6.41S–.05 130.54E–.07 150 20 2-72
IDC IV 26 11 19 17.6–1.7 6.03S 130.73E 0 4.3L,4.3 **¶17202127**
ISCJB IV 26 11 19 28.6–.57 6.55S–.04 130.58E–.06 150 3.4b,4.3
DJA IV 26 11 19 31.2–.30 6S–3.0 131E–4.0 155–9 5.2b,4.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 15 05 04.6–1.2 4.61S–.09 129.46E–.06 200 15 0-66
IDC IV 26 15 04 42.9–2.4 4.39S 129.02E 0 4.1,4.1L **¶17202156**
ISCJB IV 26 15 05 02.8–.61 4.80S–.06 129.46E–.06 200 3.1b,4.1L
DJA IV 26 15 05 07.7–.60 4S–5.0 129E–2.0 183–5 4.1b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 16 06 02.3–.00 6.43S–.07 128.8E–.10 300 10 3-67
IDC IV 26 16 05 55.8–12 6.15S 128.93E 250–136 4.0,3.5 **¶17202163**
DJA IV 26 16 06 01.8–1.2 6S–6.0 129E–9.0 347–24 4.1,3.9
ISC Event type ke.
IDC IV 27 07 31 32.6–2.8 4.25S 131.60E 0 3.8,3.7L ¶17202215

IDC Error ellipse: s-maj=132.7km s-min=29.6km az=77.0.
IDC IV 27 09 59 13.3–2.0 6.21S 129.79E 0 4.1b,3.8 ¶17202226

IDC Error ellipse: s-maj=84.1km s-min=27.4km az=76.0.
IDC IV 27 17 35 52.5–1.1 4.12S 123.33E 0 3.6,3.5 ¶17202246

IDC Error ellipse: s-maj=103.6km s-min=20.6km az=60.0.
ISC IV 28 04 10 02.4–.52 7.77S–.05 127.78E–.06 150 4.1b 47 3-151
IDC IV 28 04 09 57.8–3.2 7.31S 127.95E 107–29 4.3,4.1 **¶16577909**
ISCJB IV 28 04 10 02.6–.37 7.81S–.03 127.69E–.04 150 4.0b,4.1
NEIC IV 28 04 10 02.8–1.0 7.58S 127.71E 156–10 4.4b,4.1
DJA IV 28 04 10 03.1–.50 8S–5.0 128E–4.0 220–10 5.1b,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 29 16 27 06.3–9.1 7.18S 129.95E 75–68 3.5,3.4 ¶17202397

IDC Error ellipse: s-maj=73.3km s-min=56.1km az=164.0.
ISC IV 29 20 03 39.3–.34 5.01S–.03 129.00E–.04 35 4.7b,3.6s 117 1-153
IDC IV 29 20 03 34.3–.53 5.08S 128.84E 0 4.6,4.5 **¶16485192**
ISCJB IV 29 20 03 36.9–.22 5.08S–.02 129.00E–.03 33 4.6b,3.7s
NEIC IV 29 20 03 36.1–2.7 5.03S 128.97E 14–17 4.8b,3.7s
BJI IV 29 20 03 37.7 5.11S 129.17E 47 4.8b,4.7s
DJA IV 29 20 03 39.8–.20 5S–2.0 129E–2.0 30 5.3b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 01 18 39 16.2–11 7.37S 128.32E 114–128 3.5,3.3b ¶17202547

IDC Error ellipse: s-maj=75.4km s-min=59.8km az=34.0.
ISC V 01 19 07 50.4–.71 7.39S–.07 126.7E–.10 350 3.2b 14 4-73
ISCJB V 01 19 07 49.1–.58 7.31S–.06 126.74E–.09 350 3.4b **¶17202553**
IDC V 01 19 07 49.4–2.7 7.25S 126.73E 331–35 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.8km az=168.6.
IDC Error ellipse: s-maj=43.7km s-min=16.3km az=64.0.
IDC V 02 06 50 28.3–6.1 7.74S 129.32E 134–59 3.8,3.5 ¶17202589

IDC Error ellipse: s-maj=54.4km s-min=28.4km az=34.0.
IDC V 03 06 22 26.2–1.9 6.30S 129.78E 0 4.4,4.3L ¶17202660

IDC Error ellipse: s-maj=90.3km s-min=25.2km az=77.0.
IDC V 03 08 34 36.1–6.3 7.02S 129.43E 170–61 3.5,3.2b ¶17202663

IDC Error ellipse: s-maj=74.2km s-min=27.6km az=68.0.
IDC V 03 10 13 18.1–12 6.06S 129.68E 110–119 4.1L,4.0 ¶17202667

IDC Error ellipse: s-maj=123.9km s-min=26.7km az=50.0.
IDC V 03 18 55 20.4–1.9 6.91S 129.10E 0 3.9,3.7 ¶17202706

IDC Error ellipse: s-maj=87.8km s-min=26.1km az=76.0.
ISC V 03 22 40 44.9–.81 5.05S–.06 130.69E–.08 100 18 1-67
IDC V 03 22 40 44.0–2.8 5.13S 130.51E 70–30 3.8,3.7 **¶17202718**
ISCJB V 03 22 40 44.9–.54 5.07S–.05 130.66E–.08 100 3.4b,3.7
DJA V 03 22 40 48.7–.30 5S–3.0 131E–4.0 73–13 5.0b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC V 04 07 30 38.2–.84 7.32S–.07 129.6E–.20 100 4.0b 13 7-151
ISCJB V 04 07 30 36.3–.77 7.27S–.06 129.5E–.10 100 4.0b **¶17202734**
IDC V 04 07 30 36.9–2.5 7.21S 129.40E 82–23 4.2,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=8.0km az=1.9.
IDC Error ellipse: s-maj=33.7km s-min=15.9km az=76.0.
ISC V 04 17 55 22.7–.41 6.45S–.05 130.54E–.07 90 4.5b 84 2-151
ISCJB V 04 17 55 20.6–.28 6.41S–.04 130.61E–.04 90 4.5b **¶16493791**
DJA V 04 17 55 20.6–.30 6S–2.0 131E–4.0 115–4 5.8,5.7b
NEIC V 04 17 55 22.7–.64 6.34S 130.53E 88–6 4.6b,5.7b
IDC V 04 17 55 23.1–2.2 6.33S 130.51E 89–19 4.4,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.8km az=157.9.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.9km az=57.0.
IDC Error ellipse: s-maj=17.1km s-min=11.0km az=78.0.
IDC V 05 03 49 50.3–2.6 5.81S 130.08E 146–38 4.2,3.9 ¶17202813

IDC Error ellipse: s-maj=76.1km s-min=16.2km az=89.0.
IDC V 06 12 22 48.2–2.2 6.09S 130.21E 0 4.3b,3.9 ¶17202921

IDC Error ellipse: s-maj=97.2km s-min=26.9km az=77.0.
IDC V 06 23 52 30.4–2.9 7.11S 129.57E 97–40 4.0,3.8 ¶17202961

IDC Error ellipse: s-maj=61.9km s-min=21.6km az=96.0.
IDC V 07 12 55 25.6–8.5 6.68S 129.93E 172–89 3.7,3.3b ¶17202988

IDC Error ellipse: s-maj=76.5km s-min=26.1km az=40.0.
ISC V 07 16 14 52.3–.56 6.62S–.05 130.39E–.07 150 3.8b 40 2-146
ISCJB V 07 16 14 51.4–.45 6.64S–.04 130.32E–.06 150 3.9b **¶17202995**
IDC V 07 16 14 53.7–2.5 6.49S 129.95E 141–25 4.2,3.8
DJA V 07 16 14 55.2–.30 6S–3.0 130E–3.0 162–8 5.7b,5.3
ISC Event type ke.
ISCJB Event type ke.
IDC V 08 12 40 28.8–1.7 7.96S 126.61E 0 3.5b,3.4 ¶17203048

IDC Error ellipse: s-maj=104.1km s-min=26.2km az=70.0.
IDC V 08 18 02 29.1–21 5.44S 128.56E 196–226 3.9,3.9L ¶17203061

IDC Error ellipse: s-maj=184.9km s-min=48.9km az=45.0.
IDC V 08 20 43 15.9–2.0 5.64S 130.79E 0 4.1,3.9 ¶17203076

IDC Error ellipse: s-maj=76.9km s-min=27.5km az=78.0.
IDC V 08 21 05 20.9–1.2 7.71S 123.35E 0 4.1,4.1b ¶17203077

IDC Error ellipse: s-maj=137.4km s-min=20.2km az=62.0.
IDC V 09 02 41 12.5–4.1 6.98S 128.14E 366–79 4.0,3.2 ¶17203098

IDC Error ellipse: s-maj=81.6km s-min=47.4km az=102.0.
IDC V 10 17 49 43.8–10 7.18S 129.53E 230–127 3.3,2.8b ¶17203315

IDC Error ellipse: s-maj=73.1km s-min=54.8km az=25.0.
ISC V 11 16 51 29.8–.50 6.85S–.05 130.25E–.07 104 4.2b 37 2-129
ISCJB V 11 16 51 27.5–.35 6.97S–.03 130.24E–.06 104 4.2b **¶16506945**
IDC V 11 16 51 30.6–2.6 6.92S 130.22E 115–22 4.4,4.0
NEIC V 11 16 51 31.5–.82 6.95S 130.19E 125–9 4.2b,4.0
DJA V 11 16 51 32.3–.50 7S–3.0 131E–4.0 124–7 4.7b,4.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 11 17 42 15.9–.96 5.95S–.08 130.5E–.30 124 7 5-68
ISCJB V 11 17 42 14.2–.82 5.90S–.06 130.5E–.30 124 3.5b **¶17203414**
IDC V 11 17 42 16.8–2.7 5.96S 130.50E 131–34 3.6,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.2km s-min=8.6km az=3.3.
IDC Error ellipse: s-maj=79.7km s-min=19.6km az=87.0.
IDC V 12 10 47 19.7–12 5.99S 129.00E 281–142 4.0,3.4 ¶17203473

IDC Error ellipse: s-maj=78.0km s-min=48.1km az=39.0.
IDC V 12 13 44 55.3–14 7.27S 127.57E 103–153 3.8,3.8L ¶17203481

IDC Error ellipse: s-maj=135.0km s-min=55.9km az=40.0.
IDC V 13 06 53 35.5–8.7 7.16S 128.06E 60–81 4.6L,4.4 ¶17203528

IDC Error ellipse: s-maj=137.4km s-min=27.6km az=58.0.
IDC V 13 22 11 21.5–10.0 6.20S 129.27E 322–111 3.9,3.3 ¶17203574

IDC Error ellipse: s-maj=100.4km s-min=35.7km az=62.0.
IDC V 14 09 48 42.7–1.8 7.52S 124.70E 0 3.5,3.4 ¶17203598

IDC Error ellipse: s-maj=193.4km s-min=30.2km az=59.0.
IDC V 14 13 08 22.9–2.0 6.33S 129.02E 0 3.9,3.9b ¶17203609

IDC Error ellipse: s-maj=117.8km s-min=32.0km az=67.0.
IDC V 14 13 54 31.9–1.1 7.44S 129.64E 0 4.1,4.0 ¶17203613

IDC Error ellipse: s-maj=53.4km s-min=26.6km az=69.0.
IDC V 14 17 36 05.7–3.7 6.27S 130.39E 101–49 4.2,3.9 ¶17203626

IDC Error ellipse: s-maj=80.7km s-min=23.7km az=77.0.
IDC V 14 22 47 25.6–3.5 6.86S 129.69E 142–34 4.1,3.7 ¶17203644

IDC Error ellipse: s-maj=45.8km s-min=16.5km az=70.0.
ISC V 15 06 29 13.5–.48 7.34S–.06 129.03E–.06 150 3.9b 52 2-151
IDC V 15 06 29 10.9–3.8 7.04S 129.28E 124–35 4.1,3.9 **¶16709921**

ISCJB V 15 06 29 12.6–.30 7.31S–.03 128.95E–.04 150 3.8b,3.9
DJA V 15 06 29 14.9–.20 7S–3.0 129E–3.0 153–7 5.5b,5.3
ISC Event type ke.
ISCJB Event type ke.
ISC V 15 09 01 06.5–.71 4.32S–.06 129.77E–.06 150 3.8b 26 0-128
ISCJB V 15 09 01 05.9–.48 4.33S–.04 129.76E–.04 150 3.6b **¶17203681**
IDC V 15 09 01 08.5–3.9 4.32S 130.36E 178–44 4.3,3.9
DJA V 15 09 01 10.4–.40 4S–3.0 130E–3.0 124–4 4.5,4.3
ISC Event type ke.
ISCJB Event type ke.
IDC V 15 23 23 56.6–2.3 6.75S 129.54E 0 3.9L,3.7
¶17203714

IDC Error ellipse: s-maj=164.4km s-min=31.3km az=68.0.
IDC V 16 00 22 20.0–3.8 6.18S 129.04E 413–45 3.9,3.2
¶17203715

IDC Error ellipse: s-maj=96.2km s-min=14.2km az=71.0.
IDC V 16 14 28 40.5–2.1 6.10S 130.29E 0 4.3b,4.0
¶17203755

IDC Error ellipse: s-maj=92.1km s-min=26.9km az=77.0.
IDC V 16 17 16 16.7–2.0 6.65S 129.85E 0 3.7,3.7b
¶17203761

IDC Error ellipse: s-maj=79.3km s-min=27.5km az=77.0.
IDC V 16 17 34 23.2–6.3 4.39S 126.04E 446–87 3.8,3.1
¶17203763

IDC Error ellipse: s-maj=110.8km s-min=23.6km az=55.0.
IDC V 17 04 56 35.4–2.0 5.95S 129.97E 0 4.1,4.1b
¶17203787

IDC Error ellipse: s-maj=76.1km s-min=24.9km az=73.0.
IDC V 17 08 23 13.3–2.9 6.26S 129.98E 116–39 3.9,3.5
¶17203806

IDC Error ellipse: s-maj=73.5km s-min=21.3km az=89.0.
ISC V 17 17 47 40.7–.43 5.49S–.05 128.88E–.06 300 4.2b 77 1-127
ISCJB V 17 17 47 40.1–.25 5.49S–.03 128.75E–.05 300 4.0b **¶16527339**
NEIC V 17 17 47 41.6–.46 5.47S 128.75E 302–6 4.5b
IDC V 17 17 47 42.3–4.0 5.48S 128.67E 308–45 4.2,3.6
DJA V 17 17 47 42.4–.30 5S–5.0 129E–5.0 291–8 4.9b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 17 18 33 57.9–.75 6.71S–.07 129.88E–.07 150 4.0b 25 2-68
IDC V 17 18 33 45.1–1.9 6.77S 128.68E 0 3.9b,3.8 **¶16710118**
ISCJB V 17 18 33 56.6–.52 6.78S–.04 129.99E–.06 150 4.0b,3.8
NEIC V 17 18 33 58.4–1.1 6.69S 129.72E 151–15 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=115.3km s-min=30.7km az=67.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.6km az=165.9.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=11.6km az=76.0.
IDC V 17 19 28 11.1–2.2 6.88S 129.20E 0 3.3,3.3b
¶17203835

IDC Error ellipse: s-maj=152.5km s-min=31.6km az=68.0.
ISC V 18 03 12 21.4–.51 6.37S–.05 130.1E–.10 146 4.1b 32 4-129
ISCJB V 18 03 12 19.4–.36 6.39S–.04 130.18E–.07 146 4.2b **¶16580993**
IDC V 18 03 12 21.4–2.5 6.31S 129.89E 140–24 4.4,4.0
NEIC V 18 03 12 22.1–1.3 6.36S 130.06E 151–13 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=5.2km az=177.4.
IDC Error ellipse: s-maj=30.6km s-min=11.4km az=94.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=7.4km az=91.0.
ISC V 18 12 22 19.2–.57 6.95S–.07 125.0E–.10 543 3.7b 26 6-81
ISCJB V 18 12 22 18.1–.41 6.86S–.06 125.0E–.10 543 3.8b **¶17203879**
IDC V 18 12 22 20.2–1.5 6.95S 124.93E 558–21 4.3,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=6.6km az=161.1.
IDC Error ellipse: s-maj=28.0km s-min=11.7km az=62.0.
IDC V 19 03 30 15.5–2.0 6.46S 129.22E 0 4.1,4.0L
¶17203937

IDC Error ellipse: s-maj=116.0km s-min=30.7km az=68.0.
ISC V 19 06 33 11.2–.35 7.01S–.03 123.42E–.04 624–3 4.8b 619 2-154
BJI V 19 06 33 04.5 7.59S 123.79E 624 5.0b,4.9b **¶16528330**
ISCJB V 19 06 33 11.0–.16 7.02S–.02 123.41E–.03 644–2 4.7b,4.9b
MOS V 19 06 33 10.3–.88 6.92S 123.40E 630 4.9b,4.9b
NEIC V 19 06 33 11.8–.25 6.99S 123.40E 632–3 5.0b,4.9b
IDC V 19 06 33 11.9–.52 6.98S 123.43E 634–6 5.2,4.2
GCMT V 19 06 33 11.8–.30 6.88S 123.32E 640–3 5.3W,4.2
DJA V 19 06 33 12.2–.20 7S–2.0 123E–2.0 632–3 5.7,5.5b
KLM V 19 06 33 19.6 6.29S 123.07E 643 5.6s,5.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.9km az=151.1.
MOS Error ellipse: s-maj=10.9km s-min=6.1km az=109.9.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.3km az=61.0.
IDC Error ellipse: s-maj=8.7km s-min=5.0km az=66.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s82,c102;Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.83±.04 $M_{\theta\theta}$0.79±.05; $M_{\phi\phi}$0.03±.06; $M_{r\theta}$-0.51±.05; $M_{\theta\phi}$0.06±.06; $M_{\phi r}$0.26±.06; Best double couple: NP1:ϕ_s102.00000°,δ62.00000°,λ-75.00000°. NP2:ϕ_s252.00000°,δ31.00000°,λ-116.00000°. Principal axes: T 0.9360,Plg16.0000°,Azm181.0000° ; N 0.1050,Plg13.0000°,Azm275.0000°; P -1.0410,Plg69.0000°,Azm42.0000° M_ϕ0.98800×10^{17}
IDC V 20 08 38 42.7–2.3 6.42S 130.89E 0 4.6,4.4
¶17204023

IDC Error ellipse: s-maj=88.4km s-min=28.6km az=79.0.
IDC V 20 12 10 32.8–2.2 6.00S 130.26E 0 3.7b,3.5
¶17204039

IDC Error ellipse: s-maj=92.7km s-min=27.9km az=77.0.
IDC V 20 14 49 32.2–1.3 6.13S 130.37E 0 4.0,4.0b
¶17204048

IDC Error ellipse: s-maj=78.5km s-min=19.8km az=73.0.
ISC V 20 19 19 28.5–.62 7.55S–.06 126.25E–.07 300 3.7b 32 3-146
ISCJB V 20 19 19 27.6–.38 7.50S–.04 126.34E–.04 300 3.7b **¶17204073**
DJA V 20 19 19 28.6–.20 8S–3.0 126E–3.0 296–6 5.2b,5.0
IDC V 20 19 19 29.9–2.9 7.67S 126.16E 300–30 4.1,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.8km az=140.1.
IDC Error ellipse: s-maj=28.0km s-min=13.5km az=65.0.
ISC V 20 23 55 01.2–1.1 7.2S–.30 129.7E–.60 139 3.8b 9 13-84
ISCJB V 20 23 54 59.7–.94 7.2S–.20 129.7E–.50 139 3.8b **¶17204099**
IDC V 20 23 55 01.6–3.2 7.21S 129.56E 138–28 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=71.0km s-min=9.1km az=159.6.
IDC Error ellipse: s-maj=83.1km s-min=17.5km az=64.0.
IDC V 21 06 27 13.4–11 7.84S 126.45E 120–128 3.6,3.4L
¶17204114

IDC Error ellipse: s-maj=92.2km s-min=55.4km az=40.0.
ISC V 21 08 21 38.4–.66 5.90S–.05 130.16E–.09 146 4.1b 21 1-129
ISCJB V 21 08 21 38.6–.44 5.95S–.03 130.27E–.06 146 4.1b **¶17204120**
IDC V 21 08 21 38.9–1.9 5.81S 130.08E 155–22 4.5,4.1
DJA V 21 08 21 41.1–.20 6S–2.0 130E–3.0 176–5 5.4b,5.4
ISC Event type ke.
ISCJB Event type ke.
ISC V 21 14 23 54.1–.29 7.39S–.04 127.31E–.05 35 4.8b,3.6s 217 4-152
KLM V 21 14 23 51.4 7.25S 127.76E 24 5.5s,4.9b **¶16531802**
ISCJB V 21 14 23 52.7–.20 7.32S–.03 127.31E–.03 35 4.7b,3.7s
MOS V 21 14 23 52.5–.83 7.38S 127.09E 33 5.2b,3.7s
IDC V 21 14 23 54.8–4.2 7.39S 127.14E 33–32 4.5,4.4
NEIC V 21 14 23 54.1–.29 7.35S 127.33E 35 4.9b,4.4
DJA V 21 14 23 54.1–1.4 7S–3.0 127E–2.0 32–16 5.1b,4.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 21 14 37 15.6–2.0 6.81S 129.34E 0 4.0,4.0L
¶602004343

IDC Error ellipse: s-maj=78.1km s-min=27.8km az=76.0.
ISC V 21 19 04 01.9–.69 7.79S–.08 127.8E–.10 35 3.9b 16 8-79
ISCJB V 21 19 04 00.0–.62 7.64S–.08 127.76E–.09 33 3.9b **¶17204160**
IDC V 21 19 04 12.3–4.6 7.78S 127.28E 127–43 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=8.1km az=137.5.
IDC Error ellipse: s-maj=43.6km s-min=14.7km az=64.0.
ISC V 21 21 37 11.0–.24 5.85S–.03 129.49E–.04 250 4.6b 336 1-152
MOS V 21 21 37 08.9–.96 5.80S 129.40E 243 4.7b **¶16532058**
ISCJB V 21 21 37 09.7–.14 5.82S–.02 129.49E–.03 250 4.6b
NEIC V 21 21 37 11.1–.35 5.82S 129.43E 252–3 4.9b
IDC V 21 21 37 11.7–.87 5.78S 129.51E 255–8 4.8,4.2
KLM V 21 21 37 12.1 6.03S 129.24E 254 6.0s,5.0b
DJA V 21 21 37 12.4–.20 6S–3.0 129E–2.0 238–4 5.6,5.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 22 00 59 21.0–.32 7.44S–.04 129.17E–.05 131 4.4b 117 2-151
ISCJB V 22 00 59 19.6–.23 7.30S–.03 129.17E–.04 131 4.5b **¶16532068**
IDC V 22 00 59 20.7–2.8 7.28S 128.97E 124–26 4.3,4.0
NEIC V 22 00 59 24.7–.49 7.40S 129.21E 170–5 4.8b,4.0
DJA V 22 00 59 24.8–.30 7S–3.0 129E–2.0 165–6 5.4b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 22 17 49 22.1–2.4 6.81S 129.31E 219–34 4.0,3.4
¶17204248

IDC Error ellipse: s-maj=55.2km s-min=18.0km az=87.0.
ISC V 22 20 47 45.9–.60 7.76S–.06 127.8E–.10 150 3.8b 23 8-151
ISCJB V 22 20 47 44.1–.48 7.70S–.05 127.7E–.10 150 3.7b **¶17204257**
IDC V 22 20 47 44.2–2.7 7.65S 127.50E 126–25 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=6.1km az=167.8.
IDC Error ellipse: s-maj=34.2km s-min=13.1km az=73.0.
IDC V 22 21 48 23.9–2.0 7.15S 128.70E 0 3.9,3.9L
¶17204259

IDC Error ellipse: s-maj=85.1km s-min=27.5km az=75.0.
ISC V 23 00 21 24.5–.78 6.1S–.10 130.5E–.10 124 4.4b 12 14-100
NEIC V 23 00 21 15.9–.71 6.06S 130.52E 35 4.3b **¶16631860**
ISCJB V 23 00 21 23.2–.64 5.99S–.08 130.4E–.10 124 4.4b
IDC V 23 00 21 24.3–2.4 6.01S 130.43E 0 3.9b,3.8L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=14.9km az=194.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=9.6km az=159.9.
IDC Error ellipse: s-maj=154.5km s-min=31.1km az=70.0.
ISC V 23 06 54 48.3–.96 6.45S–.06 130.2E–.10 146 11 2-68
IDC V 23 06 54 47.7–3.0 6.52S 129.83E 113–40 4.4,4.1 **¶17204288**
ISCJB V 23 06 54 48.3–.66 6.52S–.05 130.2E–.10 146 3.6b,4.1
DJA V 23 06 54 49.0–.50 6S–5.0 130E–7.0 171–15 5.1b,4.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 23 18 46 08.4–.67 7.58S–.06 128.5E–.20 151 3.8b 15 7-151
ISCJB V 23 18 46 07.0–.60 7.46S–.05 128.4E–.10 151 3.7b **¶17204316**
IDC V 23 18 46 09.8–2.6 7.45S 128.31E 157–24 4.2,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.4km s-min=6.8km az=180.0.
IDC Error ellipse: s-maj=32.4km s-min=15.4km az=79.0.
IDC V 23 23 53 55.8–2.9 7.02S 129.62E 92–40 4.0,3.8
¶17204338

IDC Error ellipse: s-maj=64.8km s-min=23.7km az=92.0.
IDC V 24 07 09 03.7–1.8 7.04S 123.35E 0 4.2s,4.2
¶17204362

IDC Error ellipse: s-maj=206.1km s-min=28.9km az=58.0.
ISC V 24 17 20 08.1–.45 7.57S–.05 128.47E–.05 151 4.1b 70 3-151
ISCJB V 24 17 20 06.8–.26 7.52S–.03 128.46E–.05 151 4.1b **¶16546353**
IDC V 24 17 20 06.2–2.5 7.43S 128.30E 125–23 4.4,4.0
NEIC V 24 17 20 07.5–.69 7.49S 128.47E 143–7 4.1b,4.0
DJA V 24 17 20 08.8–.30 8S–4.0 129E–5.0 206–8 5.2b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 25 09 18 26.6–.90 7.98S–.07 128.8E–.20 150 3.7b 12 7-73
IDC V 25 09 18 27.4–4.3 7.91S 128.67E 155–45 4.1,3.7 **¶17204439**
ISC Event type ke.
IDC Error ellipse: s-maj=69.1km s-min=18.7km az=89.0.
IDC V 25 22 04 12.3–11 5.04S 130.41E 383–154 3.4,2.7
¶17204470

IDC Error ellipse: s-maj=177.5km s-min=56.6km az=72.0.
IDC V 26 13 49 01.6–2.2 6.33S 129.48E 0 3.8,3.7b
¶17204510

IDC Error ellipse: s-maj=110.1km s-min=32.0km az=68.0.
ISC V 26 15 42 09.9–.68 7.80S–.06 128.04E–.06 200 3.4b 30 3-82
IDC V 26 15 41 52.5–1.6 7.47S 127.00E 0 4.2,4.1L **¶16710988**
NEIC V 26 15 42 09.0–1.1 7.64S 127.87E 166–13 4.8b,4.1L
ISCJB V 26 15 42 09.8–.56 7.75S–.05 128.01E–.07 200 3.8b,4.1L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC V 26 17 00 02.7–2.4 5.89S 130.16E 0 3.7,3.6L
¶17204517

IDC Error ellipse: s-maj=143.5km s-min=31.6km az=70.0.
ISC V 27 12 35 59.3–.79 7.53S–.06 128.74E–.07 131 3.7b 16 3-72
IDC V 27 12 35 54.5–9.5 7.28S 129.01E 75–95 4.3L,4.1 **¶17204569**
ISCJB V 27 12 35 58.0–.49 7.57S–.04 128.77E–.05 131 3.6b,4.1
DJA V 27 12 35 59.7–.40 8S–4.0 129E–6.0 140–17 5.7b,5.2
ISC Event type ke.
ISCJB Event type ke.
IDC V 27 19 02 23.7–5.0 6.88S 129.62E 145–57 3.8,3.4
¶17204585

IDC Error ellipse: s-maj=104.9km s-min=20.2km az=75.0.
IDC V 27 20 04 15.5–2.4 6.11S 127.93E 421–31 4.0,3.3
¶17204587

IDC Error ellipse: s-maj=45.2km s-min=10.5km az=71.0.
IDC V 27 22 52 22.9–2.2 7.91S 129.60E 0 3.4,3.4b
¶17204597

IDC Error ellipse: s-maj=132.0km s-min=32.7km az=67.0.
IDC V 28 01 21 30.4–5.1 4.24S 131.64E 0 3.9,3.8L
¶17204602

IDC Error ellipse: s-maj=358.3km s-min=30.8km az=73.0.
ISC V 29 13 44 20.6–.25 6.59S–.03 129.89E–.04 146 5.0b 368 2-151
BJI V 29 13 44 17.6 6.89S 129.78E 147 5.0b,4.9b **¶16551507**
ISCJB V 29 13 44 19.4–.14 6.64S–.02 129.83E–.02 146 4.9b,4.9b
MOS V 29 13 44 19.8–.81 6.58S 129.76E 148 5.0b,4.9b
IDC V 29 13 44 21.3–1.7 6.60S 129.78E 146–15 4.9,4.6
NEIC V 29 13 44 21.2–.34 6.60S 129.79E 149–3 5.2b,4.6
GCMT V 29 13 44 21.2–.30 6.55S 129.89E 162–3 5.0W,4.6
DJA V 29 13 44 23.4–.30 7S–3.0 130E–2.0 164–3 5.8,5.5b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Darwin, Australia.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c22; s65,c96;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.41±.18 $M_{\theta\theta}$-3.83±.16; $M_{\phi\phi}$3.42±.18; $M_{r\theta}$0.83±.14; $M_{\theta\phi}$0.63±.18; $M_{\phi r}$2.16±.15; Best double couple: NP1:ϕ_s52.00000°,δ78.00000°,λ27.00000°. NP2:ϕ_s316.00000°,δ63.00000°,λ166.00000°. Principal axes: T 4.6530,Plg28.0000°,Azm277.0000°; N -0.6590,Plg60.0000°,Azm75.0000° ; P -3.9930,Plg10.0000°,Azm182.0000° M_ϕ4.32300×10^{16}
ISC V 29 19 52 45.9–.95 6.4S–.20 129.2E–.50 300 3.6b 10 14-77
IDC V 29 19 52 45.9–5.3 6.47S 128.94E 300–59 4.0,3.4b **¶17204723**
ISC Event type ke.
IDC Error ellipse: s-maj=52.4km s-min=13.7km az=80.0.
IDC V 29 22 39 57.9–2.1 6.32S 129.33E 0 4.3,4.3s

¶17204729
IDC Error ellipse: s-maj=121.0km s-min=30.9km az=68.0.
IDC V 30 06 27 05.4–1.6 5.79S 123.20E 0 4.0L,3.9

¶17204743
IDC Error ellipse: s-maj=132.0km s-min=24.3km az=62.0.
IDC V 30 10 14 29.9–8.4 7.80S 127.35E 650–138 3.9,3.0

¶17204753
IDC Error ellipse: s-maj=162.8km s-min=30.5km az=48.0.
ISC V 30 17 55 01.7–.33 7.19S–.04 129.23E–.05 156 4.7b 143 2-151
ISCJB V 30 17 55 00.4–.21 7.10S–.03 129.25E–.03 156 4.7b ¶16551584
IDC V 30 17 55 01.2–2.6 7.13S 129.20E 152–24 4.7,4.3
NEIC V 30 17 55 02.6–.64 7.16S 129.28E 169–6 4.9b,4.3
DJA V 30 17 55 04.8–.20 7S–2.0 129E–2.0 176–3 5.3,5.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 30 18 22 12.1–1.8 6.36S 129.63E 0 3.9b,3.8

¶17204775
IDC Error ellipse: s-maj=118.5km s-min=26.8km az=66.0.
ISC V 31 09 23 26.8–.41 6.07S–.05 127.73E–.06 400 4.1b 76 4-153
ISCJB V 31 09 23 25.8–.24 6.04S–.03 127.69E–.04 400 4.1b ¶16577358
IDC V 31 09 23 27.1–1.6 6.05S 127.63E 399–19 4.8,4.0
NEIC V 31 09 23 27.6–.34 6.06S 127.69E 406–4 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.6km az=161.0.
IDC Error ellipse: s-maj=19.2km s-min=10.4km az=74.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.7km az=64.0.
IDC V 31 17 16 01.6–2.5 6.40S 128.80E 363–33 4.4,3.6

¶17204837
IDC Error ellipse: s-maj=56.2km s-min=16.1km az=77.0.
IDC V 31 17 23 16.8–12 7.38S 128.29E 121–135 3.7L,3.4

¶17204838
IDC Error ellipse: s-maj=81.8km s-min=56.4km az=25.0.
IDC V 31 20 08 50.1–2.1 7.80S 129.54E 0 3.5b,3.4

¶17204844
IDC Error ellipse: s-maj=111.5km s-min=32.3km az=67.0.
ISC VI 01 04 35 18.2–.67 7.26S–.05 129.75E–.07 150 3.8b 23 2-146
IDC VI 01 04 35 17.7–2.6 7.22S 129.69E 118–26 4.3,4.1 ¶17204862
ISCJB VI 01 04 35 18.1–.48 7.22S–.05 129.78E–.06 150 3.7b,4.1
DJA VI 01 04 35 19.3–.30 7S–3.0 130E–4.0 146–8 5.5b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 01 12 47 15.2–.77 7.22S–.08 129.5E–.10 139 3.7b 12 7-128
IDC VI 01 12 47 12.7–4.7 7.22S 129.28E 106–47 4.2,4.0 ¶17204890
ISCJB VI 01 12 47 13.7–.65 7.30S–.07 129.3E–.10 139 3.7b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 01 16 21 10.0–.36 6.99S–.04 126.65E–.05 412 4.0b 99 4-147
ISCJB VI 01 16 21 08.8–.23 6.97S–.03 126.59E–.04 412 4.0b ¶16577368
NEIC VI 01 16 21 10.5–.41 6.96S 126.60E 419–6 4.0b
DJA VI 01 16 21 10.1–.30 7S–5.0 127E–4.0 431–7 4.9,4.8b
IDC VI 01 16 21 11.2–1.3 6.98S 126.59E 423–14 4.6,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.1km az=164.6.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.2km az=62.0.
IDC Error ellipse: s-maj=18.0km s-min=7.0km az=77.0.
ISC VI 02 15 05 24.6–.58 6.46S–.04 130.16E–.06 146 4.2b 48 2-68
IDC VI 02 15 05 16.0–8.3 6.37S 129.93E 50–86 4.7L,4.2 ¶16856116
ISCJB VI 02 15 05 22.6–.34 6.45S–.03 130.26E–.06 146 4.3b,4.2
NEIC VI 02 15 05 22.9–1.1 6.44S 130.20E 127–13 4.2b,4.2
DJA VI 02 15 05 24.3–.30 6S–3.0 130E–4.0 137–6 5.3b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 02 18 01 21.8–.81 5.28S–.06 129.48E–.08 250 16 3-67
ISCJB VI 02 18 01 22.0–.57 5.17S–.05 129.50E–.06 250 3.0b ¶17205013
DJA VI 02 18 01 22.8–.30 5S–4.0 130E–3.0 228–8 5.0b,4.7
IDC VI 02 18 01 23.8–4.1 5.33S 129.56E 236–38 4.4,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.3km az=172.9.
IDC Error ellipse: s-maj=82.2km s-min=14.7km az=72.0.
DJA VI 03 04 02 11.2–.70 6S–7.0 131E–10 56–53 5.1b,4.5

¶602004455
ISC VI 03 15 43 28.5–.46 6.21S–.04 129.28E–.06 209 3.8b 36 3-93
ISCJB VI 03 15 43 27.8–.42 6.19S–.03 129.09E–.07 209 3.8b ¶17205105
IDC VI 03 15 43 31.8–1.6 6.14S 129.27E 248–17 4.3,3.7
DJA VI 03 15 43 33.8–.20 6S–3.0 129E–3.0 238–5 5.2b,5.2
ISC Event type ke.
ISCJB Event type ke.
IDC VI 04 00 43 37.4–1.8 6.96S 128.53E 0 3.6,3.6b

¶17205141
IDC Error ellipse: s-maj=88.5km s-min=26.0km az=76.0.
ISC VI 04 01 03 29.8–.33 4.89S–.04 129.50E–.05 182 4.5b 141 1-128
ISCJB VI 04 01 03 28.6–.19 4.83S–.02 129.45E–.03 182 4.6b ¶16577381
BJI VI 04 01 03 31.1 4.90S 129.40E 202 4.6b,4.4b
NEIC VI 04 01 03 32.1–.47 4.88S 129.41E 202–5 4.7b,4.4b
IDC VI 04 01 03 32.7–1.7 4.78S 129.55E 213–17 4.2,3.8
DJA VI 04 01 03 33.2–.30 5S–3.0 129E–3.0 197–4 5.0b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 04 06 29 33.3–.76 6.69S–.06 128.9E–.10 35 4.0b 20 5-128
IDC VI 04 06 29 29.1–1.1 6.56S 128.50E 0 4.2L,4.0 ¶16640733
ISCJB VI 04 06 29 30.1–.60 6.72S–.04 128.9E–.10 33 4.1b,4.0
NEIC VI 04 06 29 34.0–.62 6.59S 128.65E 35 4.5b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=54.3km s-min=21.0km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=5.9km az=6.8.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=11.1km az=81.0.
IDC VI 04 09 50 01.9–2.3 6.73S 129.68E 0 3.5b,3.4

¶17205179
IDC Error ellipse: s-maj=88.2km s-min=29.7km az=77.0.
IDC VI 04 20 39 08.1–2.7 6.23S 130.18E 88–39 3.3,3.1

¶17205252
IDC Error ellipse: s-maj=75.1km s-min=16.7km az=92.0.
IDC VI 04 22 16 59.6–2.0 6.75S 128.97E 0 3.4,3.3b

¶17205258
IDC Error ellipse: s-maj=125.2km s-min=31.2km az=67.0.
IDC VI 05 03 07 03.7–2.4 6.51S 130.09E 0 3.8,3.6

¶17205275
IDC Error ellipse: s-maj=93.6km s-min=29.5km az=77.0.
IDC VI 05 08 41 31.0–2.2 5.71S 130.60E 0 3.9,3.8L

¶17205303
IDC Error ellipse: s-maj=93.3km s-min=27.7km az=77.0.
ISC VI 05 17 25 53.6–1.1 7.4S–.10 127.3E–.20 300 3.4b 13 11-77
ISCJB VI 05 17 25 51.9–.78 7.24S–.09 127.3E–.20 300 3.5b ¶17205345
IDC VI 05 17 25 55.9–3.8 7.46S 127.05E 323–40 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.5km s-min=8.8km az=158.9.
IDC Error ellipse: s-maj=35.1km s-min=16.2km az=62.0.
IDC VI 05 21 51 53.3–2.0 7.50S 127.86E 0 3.6,3.5L

¶17205363
IDC Error ellipse: s-maj=103.3km s-min=27.3km az=73.0.
ISC VI 06 00 53 38.4–.81 7.6S–.10 128.4E–.10 35 4.3b 11 14-68
IDC VI 06 00 53 34.0–1.6 7.36S 128.51E 0 4.1L,4.0 ¶16684506
ISCJB VI 06 00 53 36.4–.67 7.5S–.10 128.4E–.10 35 4.4b,4.0
NEIC VI 06 00 53 38.6–.53 7.46S 128.39E 35 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=188.4km s-min=29.4km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=23.0km s-min=9.7km az=141.3.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=7.8km az=52.0.

IDC VI 07 04 02 48.8–1.6 7.26S 127.76E 0 4.7L,4.6

¶17205447
IDC Error ellipse: s-maj=63.7km s-min=24.9km az=73.0.
IDC VI 07 13 00 45.2–2.2 6.53S 130.97E 0 3.7,3.5

¶17205486
IDC Error ellipse: s-maj=87.5km s-min=28.2km az=79.0.
ISC VI 07 16 43 21.9–.67 6.78S–.05 130.03E–.09 146 3.6b 28 2-78
ISCJB VI 07 16 43 21.0–.42 6.85S–.04 130.06E–.08 146 3.7b ¶16679581
IDC VI 07 16 43 21.1–2.6 6.88S 129.84E 132–28 4.2,3.9
DJA VI 07 16 43 23.4–.50 7S–4.0 130E–5.0 196–19 5.3b,4.7
NEIC VI 07 16 43 23.0–1.0 6.73S 129.89E 153–17 4.1b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=5.2km az=169.7.
IDC Error ellipse: s-maj=45.5km s-min=19.9km az=89.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=14.8km az=121.0.
IDC VI 08 18 00 33.8–2.0 7.94S 127.08E 0 3.7L,3.6

¶17205564
IDC Error ellipse: s-maj=216.3km s-min=31.7km az=62.0.
IDC VI 08 18 30 46.7–5.4 7.34S 128.81E 265–56 3.7,3.1

¶17205565
IDC Error ellipse: s-maj=55.5km s-min=21.8km az=60.0.
IDC VI 09 20 11 22.7–6.8 7.77S 124.64E 364–83 3.9,3.2

¶17205656
IDC Error ellipse: s-maj=114.3km s-min=26.8km az=51.0.
ISC VI 09 20 14 45.0–.35 6.43S–.04 130.16E–.04 146 4.5b 105 2-151
ISCJB VI 09 20 14 43.4–.25 6.40S–.03 130.23E–.03 146 4.4b ¶16581493
BJI VI 09 20 14 43.0 6.66S 130.60E 179 4.5b,4.4b
NEIC VI 09 20 14 46.0–.27 6.37S 130.17E 151 5.1b,4.4b
IDC VI 09 20 14 45.6–.81 6.37S 130.11E 150–7 4.4,4.1
DJA VI 09 20 14 48.7–.20 6S–2.0 130E–2.0 163–3 5.6,5.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 09 21 09 51.1–1.2 5.8S–.20 127.3E–.30 450 3.3b 10 12-70
IDC VI 09 21 09 49.2–2.9 5.71S 127.39E 424–32 3.8,3.1 ¶17205663
ISC Event type ke.
IDC Error ellipse: s-maj=74.4km s-min=11.1km az=64.0.
ISC VI 10 06 29 33.2–.59 6.65S–.05 130.37E–.08 50 4.3b 27 4-151
ISCJB VI 10 06 29 30.6–.48 6.55S–.04 130.56E–.06 50 4.3b,3.1s ¶16682673
IDC VI 10 06 29 33.1–3.9 6.49S 130.19E 52–40 4.3,4.2L
NEIC VI 10 06 29 35.2–1.5 6.58S 130.19E 74–16 4.8b,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.9km az=12.4.
IDC Error ellipse: s-maj=33.1km s-min=22.6km az=68.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=10.6km az=96.0.
IDC VI 10 09 04 49.1–2.4 7.37S 128.31E 0 4.4b,4.0

¶17205695
IDC Error ellipse: s-maj=285.6km s-min=30.8km az=65.0.
IDC VI 11 09 51 34.9–2.9 6.61S 129.89E 113–31 4.2,3.9

¶17205769
IDC Error ellipse: s-maj=51.0km s-min=18.5km az=87.0.
IDC VI 11 14 29 24.7–7.1 6.53S 125.61E 495–106 3.9,3.1

¶17205775
IDC Error ellipse: s-maj=114.4km s-min=39.5km az=51.0.
IDC VI 11 16 54 20.7–11 5.55S 127.90E 264–123 4.0,3.4

¶17205785
IDC Error ellipse: s-maj=120.3km s-min=32.8km az=51.0.
ISC VI 11 19 00 01.7–.41 6.91S–.04 129.37E–.05 35 4.3b,3.4s 104 2-146
IDC VI 11 18 59 56.7–.65 6.69S 129.47E 0 4.5L,4.1 ¶16591632
ISCJB VI 11 18 59 59.0–.24 6.88S–.03 129.41E–.04 35 4.3b,3.4s
NEIC VI 11 19 00 01.6–2.4 6.81S 129.36E 33–19 4.3b,3.4s
DJA VI 11 19 00 03.2–.30 7S–4.0 129E–4.0 63–40 5.1b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 11 19 17 51.9–.34 6.95S–.04 129.37E–.05 35 4.7b,3.5s 150 2-146
BJI VI 11 19 17 46.3 6.80S 129.40E 10 4.9b,4.4b ¶16601805
IDC VI 11 19 17 47.0–.56 6.78S 129.15E 0 4.4,4.3
ISCJB VI 11 19 17 49.2–.20 6.91S–.03 129.32E–.03 35 4.6b,3.5s
NEIC VI 11 19 17 50.3–2.0 6.87S 129.32E 24–15 4.6b,3.5s
DJA VI 11 19 17 52.8–.40 7S–3.0 129E–3.0 88–22 5.1b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 13 01 49 42.1–2.5 6.93S 127.67E 0 4.3,4.2b

¶17206021
IDC Error ellipse: s-maj=93.8km s-min=45.5km az=85.0.
IDC VI 13 18 35 45.2–2.2 5.96S 129.97E 0 3.8b,3.7

¶17206063
IDC Error ellipse: s-maj=98.5km s-min=27.8km az=76.0.
IDC VI 14 16 50 53.1–2.3 6.43S 129.84E 0 3.5,3.5b

¶17206124
IDC Error ellipse: s-maj=88.7km s-min=29.1km az=77.0.
ISC VI 15 09 59 04.9–.57 5.66S–.05 130.37E–.07 100 4.0b 29 1-152
ISCJB VI 15 09 59 04.3–.51 5.78S–.04 130.24E–.07 100 4.4b ¶16730555
NEIC VI 15 09 59 05.9–1.4 5.59S 130.21E 118–13 4.6b
IDC VI 15 09 59 05.4–2.7 5.54S 130.08E 112–25 4.3,4.0
DJA VI 15 09 59 08.0–.40 5S–3.0 130E–4.0 124–7 5.8b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 15 14 02 58.3–2.2 6.96S 129.36E 0 3.8,3.8b

¶17206188
IDC Error ellipse: s-maj=144.9km s-min=31.5km az=68.0.
ISC VI 15 17 36 42.0–.40 7.73S–.05 128.42E–.06 151 4.3b 70 4-151
IDC VI 15 17 36 38.9–3.0 7.45S 128.42E 112–29 4.6,4.2 ¶16730578
ISCJB VI 15 17 36 40.6–.29 7.59S–.04 128.46E–.04 151 4.3b,4.2
DJA VI 15 17 36 43.5–.50 8S–4.0 128E–4.0 161–30 5.3b,4.8b
NEIC VI 15 17 36 43.0–1.2 7.51S 128.44E 153–12 4.7b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=11.0km az=80.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.9km az=18.5.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.1km az=55.0.
IDC VI 16 03 41 44.2–2.2 4.55S 129.11E 0 3.8b,3.7

¶17206252
IDC Error ellipse: s-maj=110.2km s-min=28.1km az=73.0.
ISC VI 16 04 22 07.1–.51 7.67S–.05 128.32E–.08 142 4.1b 34 5-151
ISCJB VI 16 04 22 05.4–.40 7.51S–.04 128.27E–.07 142 4.2b ¶16730654
IDC VI 16 04 22 07.0–2.7 7.52S 128.08E 136–25 4.5,4.1
NEIC VI 16 04 22 08.1–1.7 7.57S 128.30E 150–17 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=5.6km az=6.7.
IDC Error ellipse: s-maj=36.7km s-min=12.9km az=82.0.
NEIC Event type se. Error ellipse: s-maj=18.4km s-min=11.3km az=50.0.
IDC VI 16 13 46 03.3–2.3 6.56S 130.06E 0 3.8,3.8L

¶17206323
IDC Error ellipse: s-maj=89.0km s-min=29.1km az=77.0.
IDC VI 16 16 59 41.4–2.1 6.41S 129.51E 0 3.6,3.4

¶17206334
IDC Error ellipse: s-maj=87.0km s-min=27.8km az=76.0.
IDC VI 17 00 42 31.6–1.4 7.52S 124.45E 0 4.1,3.9

¶17206356
IDC Error ellipse: s-maj=117.2km s-min=23.8km az=66.0.
IDC VI 17 07 40 54.8–2.9 7.35S 124.76E 536–34 4.2,3.4

¶17206372
IDC Error ellipse: s-maj=66.8km s-min=17.8km az=60.0.
IDC VI 17 08 06 16.9–14 5.67S 129.24E 260–158 3.9,3.3

¶17206374
IDC Error ellipse: s-maj=115.5km s-min=45.7km az=45.0.
IDC VI 17 15 54 29.2–9.6 4.29S 127.91E 550–132 3.3,2.5

¶17206398

IDC Error ellipse: s-maj=125.5km s-min=36.1km az=54.0.
IDC VI 18 04 40 52.5–4.0 6.32S 128.33E 382–45 4.0,3.3
¶17206438

IDC Error ellipse: s-maj=77.4km s-min=16.7km az=69.0.
IDC VI 18 10 49 18.5–2.2 6.88S 129.00E 0 3.9,3.8L
¶17206454

IDC Error ellipse: s-maj=85.5km s-min=29.2km az=75.0.
IDC VI 19 00 13 55.5–2.2 6.90S 129.19E 0 4.0,3.8L
¶17206498

IDC Error ellipse: s-maj=122.3km s-min=32.5km az=67.0.
IDC VI 20 04 18 17.9–9.9 5.81S 128.21E 385–137 3.9,3.2
¶17206574

IDC Error ellipse: s-maj=68.1km s-min=35.2km az=117.0.
IDC VI 20 14 14 35.5–2.2 6.45S 129.41E 0 3.8,3.6
¶17206602

IDC Error ellipse: s-maj=88.3km s-min=28.9km az=76.0.
IDC VI 20 14 34 13.7–2.4 4.77S 130.30E 0 3.8,3.8L
¶17206604

IDC Error ellipse: s-maj=155.7km s-min=29.6km az=70.0.
IDC VI 20 21 50 16.4–1.9 7.63S 127.64E 0 3.9,3.9s
¶17206633

IDC Error ellipse: s-maj=281.4km s-min=30.3km az=64.0.
ISC VI 20 22 12 09.6–.84 4.19S–.10 129.4E–.10 36 3.9b 11 4-128
ISCJB VI 20 22 12 08.2–.74 4.10S–.07 129.30E–.10 36 3.9b ¶17206634
IDC VI 20 22 12 11.9–2.4 4.06S 129.40E 59–23 4.1L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=9.2km az=26.3.
IDC Error ellipse: s-maj=25.7km s-min=16.2km az=107.0.
IDC VI 21 05 26 33.7–1.7 7.47S 124.28E 0 3.8,3.7L
¶17206657

IDC Error ellipse: s-maj=193.8km s-min=29.5km az=59.0.
IDC VI 21 06 45 24.8–2.2 4.57S 129.09E 0 3.9,3.9L
¶17206661

IDC Error ellipse: s-maj=167.4km s-min=28.2km az=68.0.
IDC VI 21 22 35 46.5–1.6 5.92S 130.64E 0 4.0,3.9L
¶17206706

IDC Error ellipse: s-maj=133.0km s-min=23.1km az=68.0.
IDC VI 22 20 46 18.8–13 6.38S 130.17E 250–163 3.9,3.9b
¶17206779

IDC Error ellipse: s-maj=102.9km s-min=56.9km az=63.0.
IDC VI 23 15 39 15.0–2.9 7.19S 129.51E 111–35 4.2,3.9
¶17206821

IDC Error ellipse: s-maj=55.1km s-min=21.9km az=89.0.
ISC VI 24 15 30 11.0–.76 6.97S–.06 130.6E–.10 100 3.9b 15 4-72
IDC VI 24 15 30 00.7–1.2 6.51S 130.78E 0 4.3,4.3L ¶16731382
ISCJB VI 24 15 30 09.4–.63 6.88S–.06 130.7E–.20 100 4.0b,4.3L
NEIC VI 24 15 30 09.3–1.2 6.82S 130.46E 69–16 4.1b,4.3L
ISC Event type se.
IDC Error ellipse: s-maj=65.3km s-min=18.7km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=22.3km s-min=6.8km az=168.1.
NEIC Event type se. Error ellipse: s-maj=23.7km s-min=9.4km az=87.0.
IDC VI 24 17 57 44.0–12 6.31S 127.28E 402–159 3.8,3.2b
¶17206883

IDC Error ellipse: s-maj=105.7km s-min=59.6km az=66.0.
IDC VI 24 23 10 38.5–3.0 6.07S 130.23E 93–38 4.0,3.7
¶17206893

IDC Error ellipse: s-maj=78.9km s-min=21.5km az=88.0.
IDC VI 25 08 37 56.5–2.0 4.18S 131.48E 0 4.0b,3.8
¶17206913

IDC Error ellipse: s-maj=105.4km s-min=23.3km az=81.0.
ISC VI 25 11 34 20.5–.40 6.33S–.05 128.37E–.05 334 4.0b 85 2-152
ISCJB VI 25 11 34 19.1–.23 6.31S–.03 128.43E–.04 334 4.0b ¶16684555
NEIC VI 25 11 34 20.0–.29 6.29S 128.44E 322 4.5b
BJI VI 25 11 34 19.0 6.30S 128.40E 322 4.8b,4.1b
IDC VI 25 11 34 20.2–1.4 6.26S 128.33E 329–14 4.6,3.9
DJA VI 25 11 34 20.5–.20 6S–3.0 128E–2.0 314–5 4.9b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 26 10 02 49.5–12 4.21S 127.41E 256–130 4.2,3.6
¶17206973

IDC Error ellipse: s-maj=129.4km s-min=39.6km az=60.0.
ISC VI 26 13 48 52.6–.76 5.84S–.07 127.91E–.09 400 3.2b 18 3-70
ISCJB VI 26 13 48 52.5–.52 5.84S–.05 127.87E–.08 400 3.2b ¶17206996
IDC VI 26 13 48 54.4–2.0 5.76S 128.16E 423–27 4.2,3.4
DJA VI 26 13 48 54.1–.70 6S–6.0 128E–8.0 394–10 4.8b,4.4
ISC Event type ke.
ISCJB Event type ke.
IDC VI 26 21 04 08.4–13 6.01S 130.91E 75–124 3.7,3.7L
¶17207024

IDC Error ellipse: s-maj=160.4km s-min=40.4km az=62.0.
ISC VI 26 23 27 46.8–.40 7.67S–.05 125.22E–.06 371 3.9b 77 2-130
ISCJB VI 26 23 27 45.8–.25 7.65S–.03 125.19E–.04 371 3.9b ¶16684564
NEIC VI 26 23 27 46.9–.41 7.63S 125.26E 364–6 4.5b
DJA VI 26 23 27 47.3–.50 8S–4.0 125E–3.0 355–7 5.1b,4.9
IDC VI 26 23 27 47.8–1.4 7.67S 125.18E 378–15 4.3,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=160.4.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.6km az=47.0.
IDC Error ellipse: s-maj=15.6km s-min=7.8km az=69.0.
IDC VI 27 03 19 17.0–2.3 6.49S 129.59E 0 3.7,3.6b
¶17207041

IDC Error ellipse: s-maj=91.6km s-min=28.8km az=76.0.
IDC VI 28 10 03 11.4–3.4 6.91S 126.81E 408–38 3.8,3.0
¶17207134

IDC Error ellipse: s-maj=76.5km s-min=13.7km az=65.0.
IDC VI 28 11 35 36.5–1.8 6.26S 130.03E 0 4.0,3.9
¶17207138

IDC Error ellipse: s-maj=85.5km s-min=25.6km az=71.0.
ISC VI 28 21 07 46.1–.65 6.61S–.05 129.21E–.07 150 3.8b 33 2-72
IDC VI 28 21 07 31.2–1.5 5.98S 129.44E 0 4.1,4.1L ¶16731731
ISCJB VI 28 21 07 45.3–.43 6.48S–.04 129.21E–.06 150 3.8b,4.1L
NEIC VI 28 21 07 48.2–1.3 6.45S 129.03E 159–17 4.5b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=67.1km s-min=23.3km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=5.0km az=167.3.
NEIC Event type se. Error ellipse: s-maj=20.7km s-min=9.6km az=76.0.
IDC VI 29 16 07 16.7–4.5 6.59S 130.99E 36–59 4.4L,4.3
¶17207205

IDC Error ellipse: s-maj=53.8km s-min=24.1km az=97.0.
IDC VI 29 23 37 23.1–2.1 6.66S 130.42E 0 3.8s,3.8
¶17207223

IDC Error ellipse: s-maj=80.3km s-min=25.8km az=76.0.

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IDC I 04 07 21 07.5–2.2 7.28S 131.84E 0 4.2,4.1L
¶17189398

IDC Error ellipse: s-maj=90.4km s-min=24.8km az=85.0.
ISC I 08 04 24 13.6–.82 7.34S–.06 130.09E–.10 50 3.9b 16 4-73
ISCJB I 08 04 24 11.3–.59 7.30S–.04 130.07E–.08 50 3.9b ¶17189669
IDC I 08 04 24 15.1–2.7 7.40S 129.92E 75–33 3.9,3.7
DJA I 08 04 24 24.1–1.3 7S–8.0 130E–5.0 89–74 4.2,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC I 17 18 22 06.6–6.5 6.57S 132.72E 216–73 3.4,3.2b
¶17190420

IDC Error ellipse: s-maj=183.2km s-min=27.4km az=78.0.
IDC II 07 01 49 52.2–7.6 6.99S 131.17E 502–104 3.7,2.8
¶17191839

IDC Error ellipse: s-maj=87.2km s-min=42.3km az=58.0.
IDC II 26 18 30 49.9–4.4 6.01S 131.20E 0 3.3,3.2
¶17192916

IDC Error ellipse: s-maj=322.2km s-min=33.3km az=72.0.
ISC III 06 08 25 52.6–1.3 8.71S–.09 130.9E–.10 35 3.7b 9 11-70
IDC III 06 08 25 47.8–1.6 8.58S 130.78E 0 4.0,3.8 ¶17193335
ISCJB III 06 08 25 50.9–1.1 8.80S–.07 130.7E–.10 33 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 20 53 57.3–.79 6.77S–.06 131.48E–.09 42 3.5b 22 1-69
IDC III 09 20 53 52.7–1.7 6.51S 131.28E 0 4.0,3.8 ¶17193579
ISCJB III 09 20 53 56.1–.54 6.77S–.04 131.52E–.06 42 3.5b,3.8
DJA III 09 20 54 01.6–.40 6S–3.0 132E–4.0 63–16 4.8b,4.6b
ISC Event type ke.
ISCJB Event type ke.
ISC III 17 11 16 50.6–.92 7.32S–.07 130.22E–.09 100 15 1-69
IDC III 17 11 16 37.7–1.6 6.65S 130.39E 0 4.4L,4.3 ¶17196692
ISCJB III 17 11 16 50.4–.62 7.27S–.05 130.16E–.07 100 3.9b,4.3
DJA III 17 11 16 53.0–.70 7S–4.0 130E–7.0 140–16 5.1b,4.7b
ISC Event type ke.
ISCJB Event type ke.
ISC III 21 12 44 03.1–.94 7.03S–.06 131.1E–.10 47 11 3-69
ISCJB III 21 12 44 03.2–.82 7.09S–.05 131.1E–.10 47 3.5b ¶17197674
IDC III 21 12 44 07.5–2.5 6.92S 130.77E 78–30 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.3km s-min=6.9km az=173.2.
IDC Error ellipse: s-maj=43.4km s-min=23.2km az=92.0.
IDC III 25 13 05 24.8–2.1 8.31S 130.06E 0 4.0,3.8
¶17198504

IDC Error ellipse: s-maj=104.2km s-min=31.9km az=68.0.
ISC III 25 13 23 14.2–.28 8.07S–.03 130.30E–.04 35 4.9b,4.2s 260 1-150
IDC III 25 13 23 09.8–.44 7.91S 130.28E 0 4.9,4.9b ¶16359886
NEIC III 25 13 23 12.4–2.1 7.92S 130.30E 19–13 5.0b,4.9b
ISCJB III 25 13 23 12.6–.18 8.01S–.02 130.31E–.02 33 4.9b,4.1s
BJI III 25 13 23 13.1 7.84S 130.46E 38 5.2b,5.0s
MOS III 25 13 23 13.1–.86 7.87S 130.31E 33 5.1b,5.0s
DJA III 25 13 23 17.5–.20 8S–2.0 130E–2.0 51–4 5.3b,5.1
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC III 25 13 48 56.0–2.1 8.19S 130.26E 0 3.7,3.7b
¶17198510

IDC Error ellipse: s-maj=80.5km s-min=28.8km az=77.0.
IDC III 31 21 04 38.2–2.3 8.65S 130.81E 0 3.3,3.1
¶17199352

IDC Error ellipse: s-maj=98.2km s-min=29.3km az=69.0.
ISC IV 03 11 58 12.4–.54 7.03S–.06 130.54E–.07 78 4.3b 42 1-150
ISCJB IV 03 11 58 10.9–.36 6.91S–.04 130.48E–.07 78 4.3b ¶16499039
IDC IV 03 11 58 11.3–2.6 6.88S 130.39E 62–25 4.8L,4.4
NEIC IV 03 11 58 12.5–.87 6.91S 130.53E 76–9 4.3b,4.4
DJA IV 03 11 58 15.4–.40 7S–3.0 131E–4.0 114–11 5.4b,4.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 13 15 03 21.2–2.3 6.60S 131.01E 0 3.6,3.5
¶17200908

IDC Error ellipse: s-maj=87.8km s-min=29.1km az=79.0.
ISC IV 13 22 36 19.9–.87 6.01S–.06 131.96E–.09 10 10 2-68
IDC IV 13 22 36 19.5–2.3 6.07S 131.90E 0 4.4,4.4L ¶17200958
ISCJB IV 13 22 36 20.7–.67 6.23S–.05 131.93E–.09 10 3.8b,3.5s
DJA IV 13 22 36 24.6–.40 6S–3.0 132E–5.0 10 5.7b,5.2
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 03 10 32.0–.27 7.04S–.04 130.09E–.04 104 4.8b 264 2-151
BJI IV 15 03 10 25.1 7.34S 130.43E 92 5.0b,4.9b ¶16436928
MOS IV 15 03 10 26.2–1.2 6.82S 129.74E 54 5.0b,4.9b
ISCJB IV 15 03 10 30.9–.19 6.99S–.02 130.08E–.03 104 4.8b,4.9b
KLM IV 15 03 10 30.0 7.05S 129.87E 34 6.2s,5.0b
NEIC IV 15 03 10 31.8–.67 6.92S 129.95E 95–6 4.8b,5.0b
IDC IV 15 03 10 33.9–1.6 6.75S 129.89E 107–14 4.7,4.4
DJA IV 15 03 10 35.3–.20 7S–2.0 130E–2.0 94–4 5.5b,5.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 17 05 42 57.7–2.3 7.31S 130.35E 0 3.9,3.6
¶17201287

IDC Error ellipse: s-maj=72.3km s-min=28.7km az=100.0.
IDC IV 19 19 04 15.8–2.7 7.18S 132.16E 0 3.6,3.6b
¶17201534

IDC Error ellipse: s-maj=101.6km s-min=29.7km az=82.0.
IDC IV 20 12 35 07.8–2.2 7.12S 131.02E 0 3.9,3.8
¶17201614

IDC Error ellipse: s-maj=81.7km s-min=28.6km az=79.0.
IDC IV 27 08 09 25.0–2.2 6.62S 132.57E 0 3.7b,3.6
¶17202220

IDC Error ellipse: s-maj=104.7km s-min=26.4km az=85.0.
ISC IV 27 18 08 35.3–.90 6.77S–.06 132.5E–.10 35 3.8b,3.6s 19 3-149
IDC IV 27 18 08 30.4–1.2 6.59S 132.74E 0 3.8,3.8L ¶17202249
DJA IV 27 18 09 38.8–.40 4S–5.0 129E–4.0 23–4 2.8,2.8
ISC Event type ke.
ISC IV 28 11 41 03.2–.30 6.46S–.04 132.51E–.05 35 4.8b,4.2s 183 2-150
IDC IV 28 11 40 58.3–.45 6.38S 132.53E 0 4.7,4.7 ¶16465969
NEIC IV 28 11 40 59.8–.22 6.41S 132.54E 10 4.7b,4.7
ISCJB IV 28 11 41 01.2–.22 6.42S–.03 132.55E–.03 33 4.8b,4.2s
MOS IV 28 11 41 01.7–.96 6.38S 132.66E 38 4.8b,4.2s
DJA IV 28 11 41 01.7–.70 6S–2.0 133E–2.0 17–6 5.6b,5.4
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC IV 28 11 49 18.7–.63 6.43S–.07 132.57E–.08 35 4.0b 38 2-150
IDC IV 28 11 49 13.6–.90 6.52S 132.45E 0 4.3,4.2 ¶16681494
NEIC IV 28 11 49 14.6–.39 6.54S 132.54E 10 4.1b,4.2
ISCJB IV 28 11 49 15.5–.41 6.55S–.04 132.58E–.05 33 4.0b,4.2
DJA IV 28 11 49 19.7–.30 6S–3.0 133E–3.0 10 4.7b,4.6
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC IV 28 14 10 21.9–4.3 6.85S 131.93E 0 3.4b,3.3
¶17202306

IDC Error ellipse: s-maj=294.6km s-min=33.9km az=74.0.
IDC IV 29 02 15 52.0–14 7.33S 131.74E 176–160 3.7,3.6L
¶17202340

IDC Error ellipse: s-maj=100.3km s-min=32.5km az=20.0.
ISC V 02 07 25 42.3–.85 6.63S–.07 132.4E–.10 35 3.9b,3.7s 13 13-82
IDC V 02 07 25 36.6–1.4 6.68S 132.73E 0 4.0b,4.0 ¶17202592
ISCJB V 02 07 25 40.3–.64 6.64S–.05 132.3E–.10 33 4.0b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC V 02 17 08 24.4–.72 6.62S–.05 131.51E–.07 100 3.5b 25 1-69
ISCJB V 02 17 08 23.7–.50 6.65S–.04 131.52E–.06 100 3.5b ¶16487770
DJA V 02 17 08 25.4–.30 7S–3.0 132E–4.0 100–9 5.3b,4.8
IDC V 02 17 08 27.6–4.1 6.98S 131.38E 119–48 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=164.5.
IDC Error ellipse: s-maj=29.9km s-min=20.3km az=26.0.
ISC V 09 23 38 10.8–.62 6.80S–.05 131.72E–.06 35 4.9b 39 1-117
IDC V 09 23 38 07.4–1.3 6.74S 131.18E 0 4.2,4.2L ¶16709297
ISCJB V 09 23 38 10.5–.47 6.82S–.04 131.62E–.05 35 4.5b,4.2L
NEIC V 09 23 38 12.1–.60 6.74S 131.29E 35 4.6b,4.2L
DJA V 09 23 38 19.7–.50 6S–3.0 132E–7.0 10 5.5b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC	**V**	**11 07 00 35.3–.90**	**6.21S–.05**	**131.15E–.10**	**100**		**19**	**2-72**
IDC	V	11 07 00 24.2–4.6	5.41S	132.30E	0	4.1b,4.0		¶17203363
ISCJB	V	11 07 00 35.6–.64	6.14S–.05	131.12E–.08	100	3.9b,4.0		
DJA	V	11 07 00 42.6–.40	6S–3.0	131E–4.0	138–9	5.6b,5.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**20 22 58 42.8–1.2**	**7.4S–.10**	**130.1E–.30**	**146**	**3.7b**	**6**	**11-69**
IDC	V	20 22 58 29.6–1.1	6.71S	130.05E	0	4.3L,4.2		¶17204094
ISC	Event type ke.							
IDC	Error ellipse: s-maj=55.9km s-min=21.3km az=81.0.							
ISC	**V**	**23 04 47 01.4–.36**	**6.25S–.03**	**131.37E–.06**	**10**	**4.7b,3.8s**	**100**	**2-150**
ISCJB	V	23 04 47 00.0–.27	6.23S–.03	131.35E–.04	10	4.5b,3.6s		¶16577315
IDC	V	23 04 47 00.7–.58	6.16S	131.24E	0	4.4,4.4b		
NEIC	V	23 04 47 01.5–2.9	6.21S	131.30E	6–19	4.6b,4.4b		
DJA	V	23 04 47 05.7–.40	6S–3.0	131E–5.0	99–33	5.3b,5.1b		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
IDC	**V**	**31 14 00 31.8–4.8**	**6.32S**	**132.09E**	**0**	**3.4b,3.3**		
								¶17204831
IDC	Error ellipse: s-maj=319.9km s-min=34.0km az=74.0.							
IDC	**V**	**31 22 31 07.0–2.6**	**6.87S**	**132.13E**	**0**	**3.9b,3.7**		
								¶17204853
IDC	Error ellipse: s-maj=106.5km s-min=28.2km az=81.0.							
IDC	**VI**	**01 04 19 31.2–2.1**	**8.64S**	**130.06E**	**0**	**3.7b,3.6**		
								¶17204861
IDC	Error ellipse: s-maj=59.5km s-min=27.4km az=84.0.							
ISC	**VI**	**01 12 18 44.9–.65**	**7.86S–.05**	**130.91E–.07**	**35**	**3.8b**	**23**	**5-149**
IDC	VI	01 12 18 41.6–.97	7.65S	130.78E	0	4.4L,4.3		¶16722588
ISCJB	VI	01 12 18 42.3–.57	7.85S–.04	131.03E–.07	33	3.8b,4.3		
NEIC	VI	01 12 18 46.1–1.3	7.84S	130.92E	40–16	4.5b,4.3		
DJA	VI	01 12 18 49.0–.40	8S–4.0	131E–6.0	77–7	5.2b,4.9		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
ISC	**VI**	**09 07 09 14.3–.81**	**6.21S–.05**	**131.6E–.10**	**61**	**4.2b**	**16**	**3-84**
IDC	VI	09 07 09 10.4–1.7	6.22S	131.19E	0	4.3,4.1		¶16856745
ISCJB	VI	09 07 09 12.8–.70	6.24S–.05	131.5E–.10	61	4.1b,4.1		
NEIC	VI	09 07 09 13.9–.76	6.16S	131.52E	35	4.3b,4.1		
ISC	Event type se.							
IDC	Error ellipse: s-maj=54.4km s-min=23.6km az=88.0.							
ISCJB	Event type se. Error ellipse: s-maj=20.7km s-min=7.1km az=178.2.							
NEIC	Event type se. Error ellipse: s-maj=22.8km s-min=9.4km az=81.0.							
ISC	**VI**	**14 19 49 22.4–.84**	**7.06S–.07**	**130.2E–.10**	**104**	**3.6b**	**11**	**6-68**
ISCJB	VI	14 19 49 21.4–.75	6.94S–.06	130.2E–.10	104	3.7b		¶17206133
IDC	VI	14 19 49 21.2–2.6	6.94S	130.05E	75–30	4.0,3.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=17.7km s-min=8.6km az=177.4.							
IDC	Error ellipse: s-maj=34.7km s-min=18.5km az=82.0.							
ISC	**VI**	**17 15 39 22.0–.77**	**7.31S–.06**	**130.0E–.10**	**50**	**3.7b**	**13**	**7-129**
IDC	VI	17 15 39 24.3–2.6	7.28S	129.77E	67–26	4.2,4.1		¶17206397
ISC	Event type ke.							
IDC	Error ellipse: s-maj=39.5km s-min=17.2km az=80.0.							
IDC	**VI**	**19 16 27 28.5–2.5**	**7.25S**	**130.67E**	**0**	**3.6b,3.4**		
								¶17206534
IDC	Error ellipse: s-maj=144.9km s-min=33.4km az=70.0.							
ISC	**VI**	**21 06 12 33.2–.52**	**7.60S–.05**	**130.55E–.07**	**27**	**4.3b**	**41**	**1-150**
ISCJB	VI	21 06 12 31.0–.41	7.55S–.04	130.52E–.05	27	4.2b,3.5s		¶16731113
NEIC	VI	21 06 12 31.4–.45	7.51S	130.47E	10	4.6b,3.5s		
IDC	VI	21 06 12 31.1–.67	7.25S	130.35E	0	4.3,4.2		
DJA	VI	21 06 12 34.6–.30	8S–3.0	131E–4.0	123–10	5.2b,4.9		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
IDC	**VI**	**21 06 27 23.9–2.1**	**7.55S**	**130.33E**	**0**	**3.9,3.8b**		
								¶17206660
IDC	Error ellipse: s-maj=81.5km s-min=27.9km az=78.0.							
ISC	**VI**	**21 11 43 53.6–.73**	**6.56S–.04**	**132.13E–.08**	**46**	**4.1b**	**33**	**2-79**
IDC	VI	21 11 43 47.1–1.0	6.64S	132.09E	0	4.7L,4.4		¶16731133
ISCJB	VI	21 11 43 50.5–.49	6.73S–.04	132.21E–.07	46	4.1b,4.4		
NEIC	VI	21 11 43 51.5–.94	6.77S	132.36E	41–12	4.4b,4.4		
DJA	VI	21 11 43 53.0–.20	7S–2.0	132E–3.0	119–7	5.3b,4.9		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
IDC	**VI**	**22 06 13 54.2–2.3**	**6.35S**	**131.10E**	**0**	**3.7,3.7b**		
								¶17206730
IDC	Error ellipse: s-maj=85.3km s-min=29.4km az=79.0.							
IDC	**VI**	**25 01 04 25.0–2.0**	**7.16S**	**130.05E**	**0**	**3.8,3.7L**		
								¶17206895
IDC	Error ellipse: s-maj=70.5km s-min=22.6km az=79.0.							
IDC	**VI**	**30 11 27 17.7–2.2**	**6.31S**	**131.85E**	**0**	**4.4,4.3L**		
								¶17207250
IDC	Error ellipse: s-maj=97.9km s-min=25.0km az=84.0.							
				(282) South of Jawa.				
DJA	**I**	**02 18 58 43.5–.50**	**9S–3.0**	**107E–3.0**	**13**	**3.7,3.7**		
								¶601988658
ISC	**I**	**02 20 09 12.5–1.5**	**10.4S–.10**	**106.90E–.06**	**35**	**3.7b**	**27**	**3-146**
IDC	I	02 20 09 03.5–1.9	11.14S	106.56E	0	4.5L,3.8		¶17189238
DJA	I	02 20 09 12.8–.50	10S–3.0	107E–3.0	81–23	4.4,4.3		
ISC	Event type ke.							
ISC	**I**	**03 21 24 25.4–.39**	**10.31S–.05**	**113.32E–.04**	**23**	**4.3b,3.5s**	**118**	**2-154**
IDC	I	03 21 24 22.4–.53	10.16S	113.38E	0	4.3,4.2		¶15902943
NEIC	I	03 21 24 26.1–2.0	10.32S	113.31E	26–14	4.5b,4.2		
DJA	I	03 21 24 26.4–.80	10S–3.0	113E–2.0	13–7	5.7b,5.2		
ISC	Event type se.							
NEIC	Event type se.							
ISC	**I**	**04 00 12 03.2–.70**	**10.19S–.07**	**113.86E–.04**	**35**	**4.2b**	**44**	**2-117**
DJA	I	04 00 12 02.9–.40	10S–4.0	114E–3.0	10	5.4b,5.1b		¶17189371
IDC	I	04 00 12 05.9–2.5	9.90S	114.00E	64–21	4.2,4.0		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=21.0km s-min=10.4km az=41.0.							
ISC	**I**	**06 15 42 37.8–.89**	**9.6S–.10**	**108.54E–.09**	**36–5**	**4.0b**	**32**	**2-144**
IDC	I	06 15 42 32.0–1.5	9.66S	108.38E	0	4.3L,4.0		¶16017947
ISCJB	I	06 15 42 37.9–1.3	9.52S–.08	108.53E–.07	57–10	3.9b,3.7s		
NEIC	I	06 15 42 37.6–.61	9.55S	108.51E	35	4.1b,3.7s		
DJA	I	06 15 42 39.2–.60	9S–4.0	109E–3.0	10	4.0,4.0		
ISC	Event type se.							
ISCJB	Event type se.							
NEIC	Event type se.							
DJA	**I**	**06 22 39 35.4–.60**	**9S–5.0**	**112E–3.0**	**48–24**	**3.6,3.6**		
								¶601988907
DJA	**I**	**07 21 33 13.6–.70**	**9S–7.0**	**110E–4.0**	**10**	**3.6,3.6**		
								¶601988971
ISC	**I**	**21 00 47 26.8–1.1**	**9.51S–.09**	**113.53E–.05**	**26**	**3.5b**	**22**	**1-63**
IDC	I	21 00 47 23.7–2.7	9.40S	113.61E	0	3.6,3.4		¶17190652
ISCJB	I	21 00 47 27.7–.76	9.58S–.08	113.68E–.04	26	3.4b,3.4		
DJA	I	21 00 47 28.0–.60	10S–6.0	114E–2.0	10	4.6b,4.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**22 17 12 20.0–.97**	**10.12S–.06**	**105.15E–.08**	**10**	**3.6b**	**35**	**1-147**
IDC	I	22 17 12 15.2–1.8	10.56S	104.36E	0	4.5L,3.8		¶16152112
ISCJB	I	22 17 12 18.9–.93	10.17S–.07	105.18E–.08	10	3.5b,3.8		
DJA	I	22 17 12 18.9–1.5	10S–11	105E–9.0	10	5.7b,5.3		
NEIC	I	22 17 12 21.2–1.3	10.18S	105.19E	10	4.2b,5.3		
ISC	Event type se.							
IDC	Error ellipse: s-maj=57.1km s-min=18.2km az=53.0.							
ISCJB	Event type se. Error ellipse: s-maj=13.5km s-min=5.4km az=140.9.							
NEIC	Event type se. Error ellipse: s-maj=30.0km s-min=10.4km az=54.0.							
DJA	**I**	**24 14 55 10.9–.50**	**9S–4.0**	**110E–3.0**	**10**	**4.2b,4.1**		
								¶601989965
ISC	**I**	**31 16 31 21.7–1.2**	**9.29S–.09**	**110.58E–.06**	**50**	**3.5b**	**21**	**1-67**
IDC	I	31 16 31 14.3–3.2	9.18S	110.63E	0	3.6,3.5		¶17191420
ISCJB	I	31 16 31 20.6–.82	9.37S–.07	110.59E–.05	50	3.4b,3.5		
DJA	I	31 16 31 24.0–.90	9S–5.0	111E–3.0	24–9	3.7,3.7		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**31 16 34 42.3–1.8**	**9.3S–.10**	**110.61E–.04**	**56–18**	**3.4b**	**26**	**1-61**
IDC	I	31 16 34 36.9–3.5	8.79S	111.03E	0	3.5,3.3		¶17191421
DJA	I	31 16 34 40.0–1.0	9S–4.0	111E–2.0	16–10	3.9b,3.8		
ISCJB	I	31 16 34 41.1–1.1	9.2S–.10	110.61E–.04	65–13	3.3b,3.8		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**31 16 47 15.0–.79**	**9.40S–.08**	**110.57E–.05**	**35**	**3.9b**	**32**	**1-67**
IDC	I	31 16 47 10.1–1.9	9.16S	110.58E	0	4.0,3.9		¶16024676
ISCJB	I	31 16 47 14.0–.59	9.50S–.05	110.56E–.04	33	3.9b,3.1s		
DJA	I	31 16 47 15.7–1.2	9S–5.0	111E–3.0	24–12	4.1,4.1		
NEIC	I	31 16 47 16.5–1.3	9.24S	110.64E	50–12	4.1b,4.1		
ISC	Event type se.							
IDC	Error ellipse: s-maj=73.4km s-min=17.1km az=55.0.							
ISCJB	Event type se. Error ellipse: s-maj=8.4km s-min=5.2km az=29.7.							
NEIC	Event type se. Error ellipse: s-maj=22.7km s-min=9.0km az=219.0.							
DJA	**II**	**04 07 32 39.1–1.6**	**9S–6.0**	**110E–3.0**	**33–18**	**3.9,3.9**		
								¶602001044
ISC	**II**	**08 15 27 00.9–.40**	**10.07S–.04**	**113.87E–.04**	**59–2**	**5.3b,5.1s**	**636**	**2-154**
MOS	II	08 15 26 57.2–.77	9.84S	113.97E	36	5.7b,5.0s		¶16012711
BJI	II	08 15 26 59.0	10.00S	113.90E	56	5.5b,5.4b		
NEIC	II	08 15 27 00.1–.49	10.00S	113.88E	50–4	5.3b,5.4b		
DJA	II	08 15 27 00.5–.30	10S–3.0	114E–1.0	62–3	5.9,5.8b		
GCMT	II	08 15 27 00.1–.20	10.17S	113.86E	48–1	5.2W,5.8b		
ISCJB	II	08 15 27 00.5–.34	10.06S–.02	113.82E–.02	72–2	5.2b,5.8b		
IDC	II	08 15 27 01.8–2.4	9.89S	113.95E	63–22	5.1,4.8		
ISC	Event type fe.							
MOS	Error ellipse: s-maj=9.8km s-min=5.8km az=115.2.							
NEIC	Event type fe. Error ellipse: s-maj=6.1km s-min=4.2km az=208.0. Felt [III] at Karangkates. Also felt at Malang. Felt [II] at Denpasar, Kuta and Ubud, Bali.							
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c58; s96,c152; Duration: 1τ0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.87±.24 $M_{\theta\theta}$3.31±.18; $M_{\phi\phi}$-5.19±.20; $M_{r\theta}$4.04±.17; $M_{\theta\phi}$-4.97±.16; $M_{\phi r}$-1.71±.18; Best double couple: NP1:ϕ_s65.00000°,δ68.00000° ,λ154.00000°. NP2:ϕ_s165.00000°,δ66.00000°,λ24.00000°. Principal axes: T 8.5000,Plg33.0000°,Azm24.0000°; N -1.0280,Plg56.0000°,Azm207.0000° ; P -7.4820,Plg1.0000°,Azm115.0000° M_o7.99100×10^{16}							
ISCJB	Event type fe. Error ellipse: s-maj=4.2km s-min=2.9km az=18.2.							
IDC	Error ellipse: s-maj=13.2km s-min=9.8km az=66.0.							
ISC	**II**	**14 11 43 56.4–.49**	**10.10S–.05**	**113.81E–.04**	**59–3**	**5.0b,4.1s**	**392**	**2-152**
IDC	II	14 11 43 48.9–.60	9.92S	113.91E	0	5.0,5.0L		¶16024045
BJI	II	14 11 43 53.8	10.10S	113.80E	53	5.4b,5.2b		
MOS	II	14 11 43 54.7–.90	9.84S	113.97E	54	5.3b,5.2b		
ISCJB	II	14 11 43 54.3–.45	10.21S–.04	113.76E–.02	64–3	5.0b,5.2b		
NEIC	II	14 11 43 55.5–.77	10.06S	113.80E	48–6	4.9b,5.2b		
DJA	II	14 11 43 56.8–.20	10S–2.0	114E–1.0	55–3	5.9b,5.5		
ISC	Event type fe.							
ISCJB	Event type fe.							
NEIC	Event type fe. Felt [II] at Karangkates. Felt [III] at Denpasar and [II] at Kuta, Bali. Also felt at Ubud.							
ISC	**II**	**16 06 06 47.9–1.5**	**9.41S–.10**	**113.99E–.05**	**58–15**	**3.5b**	**47**	**1-67**
IDC	II	16 06 06 38.5–2.1	9.65S	113.41E	0	3.7,3.5		¶602001742
ISCJB	II	16 06 06 47.7–.75	9.37S–.08	113.98E–.04	77–9	3.5b,3.5		
DJA	II	16 06 06 49.0–1.3	9S–6.0	114E–3.0	32–14	4.1,4.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**16 21 41 54.0–1.5**	**9.2S–.20**	**108.0E–.10**	**21**	**4.0b**	**22**	**1-70**
DJA	II	16 21 41 52.5–3.2	9S–7.0	108E–4.0	26–39	5.2b,4.9b		¶17192385
IDC	II	16 21 41 55.6–3.2	8.47S	107.62E	0	3.9,3.8		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=138.9km s-min=31.0km az=46.0.							
ISC	**II**	**22 18 56 20.9–.67**	**9.49S–.07**	**111.99E–.05**	**40**	**4.2b,3.2s**	**61**	**1-87**
IDC	II	22 18 56 15.8–1.3	9.26S	112.14E	0	4.1,4.0		¶16363011
ISCJB	II	22 18 56 19.1–.41	9.57S–.04	111.96E–.03	40	4.2b,3.2s		
DJA	II	22 18 56 19.8–.40	9S–3.0	112E–2.0	10	4.2,4.2		
NEIC	II	22 18 56 20.4–2.6	9.40S	112.05E	35–19	4.4b,4.2		
ISC	Event type se.							
IDC	Error ellipse: s-maj=61.6km s-min=15.6km az=51.0.							
ISCJB	Event type se. Error ellipse: s-maj=6.6km s-min=4.2km az=17.1.							
NEIC	Event type se. Error ellipse: s-maj=15.6km s-min=6.7km az=218.0.							
ISC	**II**	**26 23 26 43.2–1.5**	**10.2S–.20**	**109.2E–.10**	**35**	**3.9b**	**26**	**3-67**
ISCJB	II	26 23 26 40.9–.89	10.18S–.08	109.15E–.06	33	3.7b		¶602002213
DJA	II	26 23 26 40.2–.60	10S–6.0	109E–3.0	10	5.2b,4.6		
IDC	II	26 23 26 46.1–1.4	8.68S	110.74E	0	4.1L,3.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=12.9km s-min=6.5km az=25.0.							
IDC	Error ellipse: s-maj=64.5km s-min=17.1km az=45.0.							
ISC	**III**	**07 11 01 12.5–2.1**	**9.47S–.07**	**110.23E–.04**	**4–13**	**4.1b**	**32**	**2-71**
DJA	III	07 11 01 17.1–.80	9S–6.0	110E–2.0	12–10	3.9,3.9		¶17193409
IDC	III	07 11 01 23.9–2.9	9.28S	110.34E	98–35	3.8,3.6		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=106.3km s-min=14.2km az=48.0.							
DJA	**III**	**08 01 21 42.1–1.1**	**9S–5.0**	**110E–2.0**	**17–12**	**4.0b,3.6**		
								¶602002811
ISC	**III**	**17 04 32 20.0–1.1**	**9.4S–.10**	**107.0E–.10**	**22**	**4.0b**	**16**	**2-145**
IDC	III	17 04 32 16.8–3.3	9.36S	107.09E	0	4.0,3.9		¶17196613
ISCJB	III	17 04 32 17.5–.94	9.53S–.09	107.0E–.10	22	3.7b,3.9		
DJA	III	17 04 32 18.6–.60	9S–6.0	107E–5.0	10	4.1,4.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
DJA	**III**	**27 07 20 56.7–.80**	**11S–6.0**	**114E–4.0**	**15**	**3.7,3.7**		
								¶602003584
DJA	**III**	**28 06 26 06.0–.70**	**9S–12**	**113E–2.0**	**92–13**	**3.7,3.7**		
								¶602003607
DJA	**III**	**29 00 48 07.1–1.2**	**9S–5.0**	**111E–2.0**	**31–14**	**4.0b,3.9**		
								¶602003651
ISC	**IV**	**01 04 32 37.4–1.7**	**11.7S–.10**	**111.82E–.09**	**35**	**3.5b**	**19**	**4-64**
ISCJB	IV	01 04 32 36.0–.85	11.66S–.07	111.83E–.06	35	3.6b		¶17199380
DJA	IV	01 04 32 39.2–.40	11S–3.0	112E–3.0	25	5.6b,5.1		
IDC	IV	01 04 32 40.0–3.2	11.21S	112.99E	0	4.6L,4.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=11.2km s-min=6.4km az=41.0.							
IDC	Error ellipse: s-maj=161.3km s-min=20.9km az=45.0.							
ISC	**IV**	**03 20 06 43.3–.35**	**9.73S–.02**	**107.77E–.03**	**32–2**	**6.3b,6.3s**	**2080**	**2-178**
IDC	IV	03 20 06 38.5–.29	9.74S	107.82E	0	6.1s,6.1		¶16405115
ISCJB	IV	03 20 06 39.8–.49	9.84S–.02	107.77E–.01	18–3	6.3s,6.2b		
GCMT	IV	03 20 06 40.4–.10	10.10S	107.72E	21–0	6.7W,6.2b		
NEIC	IV	03 20 06 40.4–.13	9.85S	107.69E	14	6.7,6.7W		
BJI	IV	03 20 06 40.9	9.85S	107.80E	20	6.7s,6.5		
DJA	IV	03 20 06 40.5–.10	10S–1.0	108E–1.0	10	8.0,6.8b		
MOS	IV	03 20 06 41.9–1.0	9.72S	107.89E	33	6.3b,6.1s		
NEIC	IV	03 20 06 42.0–.00	10.19S	107.95E	24	6.3b,6.1s		
KLM	IV	03 20 06 42.6	9.94S	107.57E	55	7.5s,6.7b		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=10.8km s-min=8.5km az=63.0.							
ISCJB	Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=34.3.							
GCMT	nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s144,c320; s139,c602;Duration: 5τ7 Moment tensor: Scale 10^{19} Nm; M_{rr}-1.18±.01 $M_{\theta\theta}$1.42±.01; $M_{\phi\phi}$-0.23±.01; $M_{r\theta}$0.27±.01; $M_{\theta\phi}$-0.89±.01; $M_{\phi r}$-0.30±.02; Best double couple: NP1:ϕ_s307.00000°,δ53.00000°,λ-72.00000°. NP2:ϕ_s98.00000° ,δ40.00000°,λ-112.00000°. Principal axes: T 1.8540,Plg7.0000°,Azm24.0000° ; N -0.5850,Plg14.0000°,Azm116.0000°; P -1.2660,Plg74.0000°,Azm269.0000° M_o1.56000×10^{19}							

NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=214.0. Felt [V] at Tasikmalaya and Wonosobo; [IV] at Cilacap and Pangandaran; [III] at Bandung, Bogor and Sleman; [II] at Cisarua, Jakarta, Karangkates, Purworejo and Yogyakarta. Felt [II] at Denpasar, Kuta and Ubud, Bali. Felt in much of Bali and Java. Also felt in Singapore. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s183.00000°,δ46.00000° ,λ-36.00000°. NP2:ϕ_s300.00000°,δ65.00000°,λ-130.00000°. Principal axes: T Plg11.0000° ,Azm58.0000°; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm162.0000°

MOS Error ellipse: s-maj=7.5km s-min=4.3km az=120.2.

NEIC Event type se. Moment Tensor Solution. s25 Moment tensor: Scale 10^{19}Nm; M_{rr}-1.21 $M_{\theta\theta}$1.16 $M_{\phi\phi}$0.05 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.66 $M_{\phi r}$-0.08 Best double couple: NP1:ϕ_s290.00000° ,δ53.00000°,λ-96.00000°. NP2:ϕ_s121.00000°,δ37.00000°,λ-81.00000°. Principal axes: T 1.5200,Plg8.0000°,Azm24.0000°; N -0.2500,Plg5.0000°,Azm293.0000° ; P -1.2700,Plg80.0000°,Azm171.0000° $M_0$1.40000×10^{19}

DJA IV 03 20 24 32.7–.80 10S–8.0 108E–4.0 10 4.8,4.8 ¶602003826

DJA IV 03 20 32 18.7–2.5 10S–6.0 108E–4.0 12–22 4.4,4.4 ¶602003825

ISC IV 03 20 39 12.2–.87 10.07S–.07 107.49E–.07 23 4.1b 21 2-145
IDC IV 03 20 39 07.9–1.7 10.57S 107.01E 0 4.5L,4.0 **¶16577643**
ISCJB IV 03 20 39 10.3–.67 10.15S–.07 107.55E–.06 23 3.9b,4.0
NEIC IV 03 20 39 10.7–.76 10.14S 107.58E 10 4.3b,4.0
DJA IV 03 20 39 12.2–.60 10S–7.0 107E–5.0 10 4.6,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

DJA IV 03 21 45 58.8–.60 10S–5.0 108E–5.0 10 3.8,3.8 ¶602003824

DJA IV 03 21 49 22.2–.80 10S–8.0 108E–5.0 10 3.9b,3.8 ¶602003823

ISC IV 04 01 03 07.7–1.2 10.04S–.09 107.6E–.10 23 3.7b 25 2-145
DJA IV 04 01 03 04.8–.50 10S–6.0 108E–3.0 10 4.7b,4.4 **¶17199723**
IDC IV 04 01 03 04.7–3.0 9.92S 107.74E 0 4.2,3.9b
ISCJB IV 04 01 03 05.1–1.0 10.12S–.09 107.63E–.08 23 3.7b,3.9b
ISC Event type ke.
ISCJB Event type ke.

ISC IV 04 07 41 04.2–.51 9.92S–.06 107.70E–.06 23 4.4b 58 2-152
IDC IV 04 07 41 00.5–.70 9.96S 107.58E 0 4.6L,4.4 **¶16577648**
NEIC IV 04 07 41 02.0–.37 10.04S 107.55E 10 4.7b,4.4
DJA IV 04 07 41 01.4–.50 10S–5.0 108E–3.0 10 5.5b,5.0b
ISCJB IV 04 07 41 02.0–.40 9.97S–.04 107.60E–.04 23 4.3b,3.1s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

ISC IV 04 10 04 34.1–1.3 9.97S–.09 107.7E–.10 23 4.0b 21 2-61
ISCJB IV 04 10 04 31.6–.97 10.03S–.08 107.64E–.08 23 3.9b,3.1s **¶17199756**
DJA IV 04 10 04 33.1–.60 10S–6.0 107E–5.0 51–31 4.8b,4.7
IDC IV 04 10 04 44.0–4.8 9.68S 108.14E 100–32 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=8.1km az=137.8.
IDC Error ellipse: s-maj=103.3km s-min=15.8km az=53.0.

DJA IV 04 12 47 51.9–.60 10S–3.0 108E–3.0 71–24 4.2b,3.9 ¶602003840

ISC IV 04 18 16 18.5–1.3 9.88S–.08 107.41E–.07 23 3.4b 21 2-70
IDC IV 04 18 16 14.4–1.9 10.24S 106.59E 0 4.1L,3.6 **¶17199799**
DJA IV 04 18 16 17.8–.50 10S–3.0 107E–3.0 72–19 4.2b,4.0
ISC Event type ke.

ISC IV 04 23 11 04.2–.70 9.42S–.06 114.00E–.04 69–6 4.5b 103 1-146
DJA IV 04 23 11 00.4–.80 10S–4.0 114E–2.0 16–8 5.3b,4.8 **¶16577665**
ISCJB IV 04 23 11 03.5–.56 9.34S–.06 114.00E–.03 77–4 4.3b,4.8
NEIC IV 04 23 11 04.0–.30 9.25S 114.01E 61 4.6b,4.8
IDC IV 04 23 11 04.3–1.0 9.22S 114.13E 63–8 4.4,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=10.9km s-min=4.4km az=15.4.
NEIC Event type fe. Error ellipse: s-maj=10.4km s-min=4.5km az=210.0. Felt [II] at Nusadua.
IDC Error ellipse: s-maj=18.9km s-min=10.6km az=48.0.

ISC IV 05 03 06 50.4–1.6 9.4S–.10 107.73E–.09 23 3.8b 14 2-145
DJA IV 05 03 06 44.3–.50 10S–4.0 107E–3.0 10 4.3b,4.2 **¶602003857**
ISCJB IV 05 03 06 47.9–1.3 9.6S–.10 107.68E–.08 23 3.7b,4.2
IDC IV 05 03 06 55.3–5.1 7.54S 110.15E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=7.5km az=32.2.
IDC Error ellipse: s-maj=401.5km s-min=23.2km az=53.0.

ISC IV 05 13 47 05.9–1.1 9.59S–.10 112.80E–.05 36 4.0b 19 1-68
IDC IV 05 13 46 59.5–2.5 9.50S 112.72E 0 3.7,3.6 **¶17199897**
ISCJB IV 05 13 47 05.1–.80 9.66S–.07 112.80E–.04 36 3.6b,3.6
DJA IV 05 13 47 05.3–.50 10S–4.0 113E–2.0 10 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.

ISC IV 05 13 52 53.2–.86 9.7S–.10 112.75E–.08 35 4.1b 23 2-75
IDC IV 05 13 52 49.4–2.0 9.30S 112.97E 0 3.9,3.8b **¶16506213**
ISCJB IV 05 13 52 52.1–.67 9.81S–.08 112.74E–.06 35 3.9b,3.5s
NEIC IV 05 13 52 53.8–1.2 9.68S 112.78E 43–14 4.1b,3.5s
DJA IV 05 13 52 54.0–.90 10S–10 113E–3.0 10 4.0,4.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

IDC IV 05 14 50 04.0–6.1 10.02S 107.95E 94–42 3.6,3.4 ¶17199905

IDC Error ellipse: s-maj=91.3km s-min=17.7km az=55.0.

DJA IV 06 13 36 33.4–4.2 10S–5.0 108E–4.0 19–52 4.4b,4.1 ¶602003867

ISC IV 06 15 04 32.4–.62 9.82S–.08 107.69E–.09 26–2 4.0b 52 2-145
DJA IV 06 15 04 29.0–.60 10S–7.0 108E–4.0 10 4.3,4.3 **¶16525084**
NEIC IV 06 15 04 29.4–.57 9.86S 107.60E 10 4.4b,4.3
IDC IV 06 15 04 34.6–.92 9.64S 107.90E 34–4 4.0,3.9
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=10.6km az=212.0.
IDC Error ellipse: s-maj=35.6km s-min=12.4km az=52.0.

ISC IV 06 17 25 08.0–.94 9.79S–.08 107.33E–.08 23 3.7b 26 2-145
ISCJB IV 06 17 25 05.6–.94 9.84S–.08 107.31E–.07 23 3.6b **¶17200030**
DJA IV 06 17 25 05.3–.30 10S–4.0 107E–2.0 10 5.2b,4.8b
IDC IV 06 17 25 21.4–4.2 9.12S 108.24E 118–27 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.4km s-min=7.5km az=37.4.
IDC Error ellipse: s-maj=114.7km s-min=16.8km az=53.0.

ISC IV 06 18 05 43.3–1.1 9.90S–.08 107.70E–.08 23 3.7b 21 2-61
IDC IV 06 18 05 39.2–2.3 10.33S 107.48E 0 4.3L,3.8 **¶17200034**
ISCJB IV 06 18 05 41.2–.89 9.94S–.07 107.68E–.07 23 3.6b,3.8
DJA IV 06 18 05 43.0–.40 10S–4.0 108E–3.0 10 5.1b,4.5b
ISC Event type ke.
ISCJB Event type ke.

ISC IV 06 20 00 35.3–1.3 9.77S–.09 107.49E–.09 23 3.6b 18 2-70
IDC IV 06 20 00 31.2–1.9 10.15S 107.33E 0 4.0L,3.7 **¶17200045**
ISCJB IV 06 20 00 33.2–1.1 9.83S–.10 107.53E–.08 23 3.5b,3.7
DJA IV 06 20 00 33.4–1.7 10S–15 107E–9.0 10 4.2b,4.1
ISC Event type ke.
ISCJB Event type ke.

ISC IV 06 20 16 53.2–.89 9.79S–.08 107.69E–.07 23 4.2b 28 2-145
IDC IV 06 20 16 48.0–1.5 10.27S 107.17E 0 4.5,4.3 **¶16577704**
ISCJB IV 06 20 16 50.2–.68 9.93S–.08 107.61E–.05 23 4.2s,4.1b
NEIC IV 06 20 16 50.1–.69 9.90S 107.55E 10 4.0b,4.1b
DJA IV 06 20 16 50.4–.50 10S–5.0 108E–3.0 10 5.6b,5.1
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC IV 06 22 26 05.3–.59 10.03S–.05 107.80E–.05 22 4.0b 48 2-145
IDC IV 06 22 26 00.9–1.7 10.49S 107.33E 0 4.7L,3.9 **¶16577706**
ISCJB IV 06 22 26 03.8–.44 10.03S–.05 107.84E–.05 22 4.3b,3.9
NEIC IV 06 22 26 03.3–.45 10.19S 107.77E 10 4.7b,3.9
DJA IV 06 22 26 04.1–.60 10S–6.0 108E–3.0 10 5.5b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC IV 08 09 18 37.5–1.5 9.9S–.10 108.0E–.20 22 3.4b 10 2-65
DJA IV 08 09 18 32.6–1.2 10S–11 108E–8.0 10 3.9,3.9 **¶17200226**
IDC IV 08 09 18 36.5–2.0 10.06S 108.14E 0 4.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=83.8km s-min=18.7km az=55.0.

ISC IV 08 11 10 42.1–1.1 9.6S–.10 112.54E–.06 35 3.5b 15 2-72
IDC IV 08 11 10 29.0–12 8.82S 112.06E 0 3.9,3.7 **¶17200237**
DJA IV 08 11 10 39.3–.50 10S–5.0 113E–3.0 10 4.9b,4.5b
ISCJB IV 08 11 10 40.6–.73 9.69S–.08 112.52E–.06 33 4.1s,3.5b
ISC Event type ke.
ISCJB Event type ke.

DJA IV 08 19 23 49.5–4.4 10S–4.0 108E–3.0 31–55 3.7,3.7 ¶602003924

ISC IV 09 12 19 15.9–.90 9.99S–.07 107.69E–.10 23 3.9b 22 2-145
IDC IV 09 12 19 11.7–1.7 10.41S 107.42E 0 4.1,4.1L **¶17200337**
ISCJB IV 09 12 19 13.7–.80 10.03S–.05 107.69E–.09 23 3.8b,4.1L
DJA IV 09 12 19 16.1–.70 10S–4.0 108E–5.0 10 6.1b,5.8
ISC Event type ke.
ISCJB Event type ke.

DJA IV 09 17 09 06.8–.70 10S–13 110E–4.0 55–44 4.0b,3.9 ¶602003934

DJA IV 09 22 52 05.1–.80 10S–6.0 108E–5.0 10 3.5,3.5 ¶602003936

ISC IV 09 23 54 03.8–1.0 9.90S–.07 107.87E–.10 22 3.9b 24 2-145
IDC IV 09 23 54 01.2–3.1 9.72S 108.13E 0 3.9,3.8 **¶16525097**
NEIC IV 09 23 54 05.5–.84 9.98S 107.91E 35 4.2b,3.8
DJA IV 09 23 54 11.9–.80 10S–5.0 108E–5.0 10 4.6b,4.4
ISC Event type se.
NEIC Event type se.

IDC IV 10 01 54 23.6–4.1 9.39S 108.56E 0 3.7,3.6 ¶17200401

IDC Error ellipse: s-maj=182.8km s-min=20.2km az=50.0.

ISC IV 10 04 14 08.6–3.4 9.98S–.06 108.24E–.06 8–21 4.3b,3.6s 61 2-144
ISCJB IV 10 04 14 08.6–1.4 9.99S–.04 108.27E–.04 21–11 4.2b,3.6s **¶17200418**
IDC IV 10 04 14 08.9–1.1 9.64S 108.57E 0 4.2,4.1
NEIC IV 10 04 14 09.8–2.8 9.89S 108.30E 12–17 4.5b,4.1
DJA IV 10 04 14 10.2–.40 10S–3.0 108E–2.0 10 5.2b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

IDC IV 10 11 56 32.9–2.1 10.24S 107.00E 0 3.7L,3.5 ¶17200457

IDC Error ellipse: s-maj=60.5km s-min=22.9km az=61.0.

ISC IV 10 19 48 11.8–1.2 8.32S–.08 106.49E–.07 30 3.1b 27 1-59
IDC IV 10 19 48 05.2–2.0 8.80S 106.01E 0 4.5L,3.4 **¶17200496**
DJA IV 10 19 48 13.1–.40 8S–3.0 107E–2.0 10 3.6,3.6
ISC Event type ke.

DJA IV 11 11 06 57.9–.60 10S–7.0 107E–5.0 10 3.8,3.8 ¶602003949

ISC IV 11 17 38 00.3–.70 10.06S–.06 107.56E–.07 10 4.1b 39 2-145
ISCJB IV 11 17 37 58.1–.53 10.10S–.05 107.63E–.05 10 4.1b **¶16587458**
DJA IV 11 17 38 00.6–.40 10S–3.0 108E–3.0 10 5.3b,5.0b
NEIC IV 11 17 38 00.2–.63 10.10S 107.62E 10 4.3b,5.0b
IDC IV 11 17 38 00.1–1.9 9.88S 107.88E 0 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.5km az=40.7.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.0km az=210.0.
IDC Error ellipse: s-maj=78.6km s-min=14.8km az=50.0.

ISC IV 11 20 19 07.4–1.1 9.7S–.10 107.3E–.10 23 3.5b 15 2-145
IDC IV 11 20 19 03.2–3.2 9.86S 107.17E 0 3.8,3.6 **¶17200676**
ISCJB IV 11 20 19 04.5–1.1 9.84S–.09 107.2E–.10 23 3.6b,3.6
DJA IV 11 20 19 04.9–.60 10S–6.0 107E–5.0 10 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.

ISC IV 11 20 42 09.9–1.3 9.7S–.10 107.75E–.10 23 3.4b 16 2-61
DJA IV 11 20 42 05.0–.40 10S–5.0 108E–3.0 10 4.1b,4.0 **¶17200681**
IDC IV 11 20 42 06.8–2.9 9.58S 107.88E 0 3.6,3.5
ISCJB IV 11 20 42 07.3–1.0 9.82S–.09 107.65E–.09 23 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.

ISC IV 16 01 40 56.0–1.1 10.70S–.08 113.67E–.07 23 3.7b 20 2-118
IDC IV 16 01 40 51.5–2.4 10.82S 113.51E 0 3.9,3.7 **¶17201183**
DJA IV 16 01 40 58.7–2.7 11S–7.0 114E–3.0 38–39 6.4b,6.2
ISC Event type ke.

DJA IV 16 02 10 47.6–.40 10S–3.0 108E–3.0 10 4.2b,4.1 ¶602004002

ISC IV 16 07 04 40.1–1.8 9.75S–.06 107.59E–.04 24–12 4.3b,3.4s 81 2-149
ISCJB IV 16 07 04 35.9–1.3 9.92S–.04 107.52E–.03 15–10 4.3b,3.4s **¶16707068**
IDC IV 16 07 04 36.6–.84 9.66S 107.49E 0 4.3b,4.3
DJA IV 16 07 04 36.9–.30 10S–3.0 107E–2.0 10 5.3b,5.0b
NEIC IV 16 07 04 38.8–3.1 9.76S 107.45E 16–19 4.5b,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.2km az=19.8.
IDC Error ellipse: s-maj=36.6km s-min=13.7km az=53.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.3km az=207.0.

ISC IV 19 14 19 33.7–.68 9.80S–.06 107.32E–.05 23 4.1b 50 2-145
DJA IV 19 14 19 30.8–.50 10S–4.0 107E–3.0 10 4.4,4.2 **¶16536016**
ISCJB IV 19 14 19 31.7–.50 9.79S–.05 107.36E–.04 23 3.9b,3.8s
IDC IV 19 14 19 31.4–2.4 9.75S 107.41E 0 4.0,3.9b
NEIC IV 19 14 19 35.5–.64 9.87S 107.35E 35 4.2b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.0km az=3.0.
IDC Error ellipse: s-maj=89.2km s-min=20.8km az=52.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=11.7km az=220.0.

DJA IV 20 19 01 03.6–1.7 9S–5.0 113E–2.0 34–18 3.8,3.8 ¶602004051

ISC IV 21 08 41 21.2–1.0 9.71S–.07 107.36E–.08 10 4.0b 29 2-145
ISCJB IV 21 08 41 18.1–.80 9.86S–.07 107.30E–.06 10 4.5s,3.9b **¶602004053**
DJA IV 21 08 41 22.3–.40 10S–4.0 107E–3.0 10 5.3b,4.8b
IDC IV 21 08 41 38.5–2.2 8.30S 109.18E 114–25 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.2km az=37.4.
IDC Error ellipse: s-maj=94.3km s-min=17.2km az=48.0.

ISC IV 22 03 34 19.5–.79 9.34S–.08 110.38E–.07 35 4.3b 42 1-118
IDC IV 22 03 34 14.7–1.3 9.11S 110.49E 0 4.2,4.2b **¶602945442**
ISCJB IV 22 03 34 17.7–.48 9.41S–.05 110.34E–.04 33 4.2b,3.6s
DJA IV 22 03 34 20.1–.30 9S–3.0 110E–2.0 10 5.0b,4.4b
NEIC IV 22 03 34 22.2–1.2 9.22S 110.41E 60–10 4.2b,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=44.1km s-min=17.1km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=5.4km az=2.8.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=7.4km az=217.0.

ISC IV 22 05 17 55.1–.72 9.36S–.08 110.41E–.07 35 4.3b,3.5s 47 1-118
ISCJB IV 22 05 17 53.8–.45 9.40S–.05 110.39E–.03 33 4.2b,3.9s **¶16532315**
DJA IV 22 05 17 54.9–.30 9S–3.0 110E–2.0 10 6.0b,5.7
NEIC IV 22 05 18 02.8–1.0 9.17S 110.62E 106–9 4.0b,5.7
IDC IV 22 05 18 06.0–1.1 9.12S 110.50E 133–6 4.2,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.3km az=16.8.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=7.9km az=214.0.
IDC Error ellipse: s-maj=35.9km s-min=14.4km az=48.0.

ISC IV 25 10 18 07.0–.58 9.88S–.05 107.67E–.07 23 4.4b,3.1s 56 2-145
ISCJB IV 25 10 18 04.8–.43 9.89S–.04 107.71E–.04 23 4.2b,3.4s **¶16649379**
IDC IV 25 10 18 04.2–1.2 9.78S 107.86E 0 4.3,4.2
DJA IV 25 10 18 07.1–1.3 10S–3.0 108E–2.0 15–16 5.3b,5.2b
NEIC IV 25 10 18 08.9–1.1 10.14S 107.58E 42–11 4.6b,5.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.3km az=35.6.

IDC Error ellipse: s-maj=53.9km s-min=15.2km az=52.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=9.2km az=222.0.
ISC IV 29 23 25 08.3–2.6 9.65S–.09 112.81E–.04 10–17 3.5b 20 2-67
IDC IV 29 23 25 05.2–2.4 9.89S 112.32E 0 3.7,3.6 **¶17202420**
DJA IV 29 23 25 15.2–.60 10S–5.0 113E–2.0 30 4.1,4.1
ISC Event type ke.
ISC V 01 06 27 42.7–1.4 10.9S–.10 110.7E–.10 35 3.2b 17 3-63
DJA V 01 06 27 39.2–1.7 11S–7.0 111E–3.0 12–18 4.1,4.1 **¶17202505**
ISCJB V 01 06 27 40.2–.86 10.89S–.07 110.63E–.07 33 3.2b,4.1
IDC V 01 06 27 40.0–3.1 10.47S 111.10E 0 3.5,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.5km az=136.7.
IDC Error ellipse: s-maj=151.8km s-min=28.7km az=46.0.
DJA V 02 22 17 06.3–.90 9S–6.0 113E–2.0 25–9 3.6,3.6
¶602004170
DJA V 03 02 22 05.8–.70 9S–12 113E–2.0 80–18 3.9,3.9
¶602004175
DJA V 03 07 30 10.9–.90 8S–6.0 107E–4.0 19–8 4.0,4.0
¶602004177
ISC V 08 15 07 59.7–1.7 10.0S–.10 107.9E–.30 22 3.7b 9 3-145
IDC V 08 15 07 56.5–2.8 9.98S 107.94E 0 3.9,3.7 **¶17203054**
ISC Event type ke.
IDC Error ellipse: s-maj=125.5km s-min=19.7km az=51.0.
IDC V 08 17 06 18.0–2.7 9.74S 108.59E 0 3.7,3.6
¶17203057
IDC Error ellipse: s-maj=132.2km s-min=26.1km az=49.0.
ISC V 09 08 56 15.2–.95 10.01S–.07 107.83E–.06 22 4.0b 24 2-145
ISCJB V 09 08 56 12.5–.78 10.12S–.05 107.77E–.06 22 3.9b **¶17203113**
IDC V 09 08 56 12.7–1.9 9.80S 108.06E 0 4.1,4.0
DJA V 09 08 56 13.6–3.7 10S–5.0 108E–3.0 28–48 5.2b,4.9b
ISC Event type ke.
ISCJB Event type ke.
DJA V 11 20 16 51.4–.50 10S–5.0 108E–3.0 10 4.1b,4.0
¶602004257
DJA V 12 16 22 31.3–.50 10S–4.0 108E–3.0 10 3.8,3.8
¶602004264
ISC V 13 21 43 22.6–.43 10.04S–.03 107.63E–.04 24–2 5.1b,4.7s 669 2-178
BJI V 13 21 43 13.1 10.77S 107.84E 10 5.3b,5.0b **¶16509655**
ISCJB V 13 21 43 17.5–.85 9.97S–.02 107.63E–.02 2–5 5.1b,5.0s
IDC V 13 21 43 19.1–.34 9.90S 107.70E 0 4.9,4.8L
GCMT V 13 21 43 20.5–.20 10.09S 107.70E 17–0 5.2W,4.8L
NEIC V 13 21 43 20.5–.14 9.98S 107.65E 10 5.3b,5.2s
DJA V 13 21 43 21.7–.20 10S–2.0 108E–1.0 10 5.7,5.6b
MOS V 13 21 43 21.9–.74 9.94S 107.65E 33 5.3b,4.4s
KLM V 13 21 43 22.1 9.87S 107.76E 10 6.4s,5.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.1km az=29.2.
IDC Error ellipse: s-maj=14.5km s-min=9.4km az=51.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c122; s83,c162; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.67±.02 $M_{\theta\theta}$0.77±.01; $M_{\phi\phi}$-0.09±.02; $M_{r\theta}$0.35±.03; $M_{\theta\phi}$-0.31±.01; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s293.00000°,δ59.00000°,λ-84.00000°. NP2:ϕ_s101.00000°,δ32.00000°,λ-100.00000°. Principal axes: T 0.9620,Plg13.0000°,Azm18.0000°; N -0.1930,Plg5.0000°,Azm110.0000° ; P -0.7690,Plg76.0000°,Azm220.0000° $M_0$0.86600×10^{17}
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=209.0.
MOS Error ellipse: s-maj=10.5km s-min=7.1km az=113.0.
ISC V 17 00 15 00.3–.38 9.15S–.03 112.59E–.03 53–2 5.5b,5.2s 1373 1-177
BJI V 17 00 14 55.7 9.20S 112.60E 28 5.5b,5.3b **¶16523247**
IDC V 17 00 14 56.3–2.1 9.16S 112.62E 21–12 5.4,5.3
DJA V 17 00 14 57.4–.30 10S–3.0 113E–2.0 10 6.3b,6.3
GCMT V 17 00 14 57.7–.10 9.53S 112.69E 41–0 5.7W,6.3
NEIC V 17 00 14 57.6–.12 9.20S 112.59E 28 5.7W,5.7b
MOS V 17 00 14 57.4–.91 9.15S 112.60E 48 5.8b,5.1s
NEIC V 17 00 14 58.0–.00 9.58S 113.01E 32 5.8b,5.1s
ISCJB V 17 00 15 00.1–.35 9.21S–.02 112.65E–.02 66–3 5.4b,5.1s
KLM V 17 00 15 01.7 9.40S 112.54E 71 6.5s,6.2L
ISC Event type fe.
IDC Error ellipse: s-maj=12.3km s-min=8.5km az=73.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s120,c226; s125,c343;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.50±.04 $M_{\theta\theta}$3.75±.03; $M_{\phi\phi}$-0.24±.04; $M_{r\theta}$0.54±.03; $M_{\theta\phi}$-0.97±.03; $M_{\phi r}$0.77±.04; Best double couple: NP1:ϕ_s269.00000°,δ50.00000°,λ-110.00000°. NP2:ϕ_s117.00000°,δ44.00000°,λ-68.00000°. Principal axes: T 3.9900,Plg3.0000°,Azm12.0000°; N -0.2340,Plg15.0000°,Azm282.0000° ; P -3.7490,Plg75.0000°,Azm113.0000° $M_0$3.87000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.5km az=217.0. Felt [IV] at Blitar and Karangkates; [III] at Malang; [II] at Surabaya and Yogyakarta. Also felt at Banyuwangi, Batu, Jember, Kepanjen and Pare. Felt [IV] at Denpasar and [II] at Kuta, Bali. Also felt at Ubud. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s35 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.99 $M_{\theta\theta}$2.59 $M_{\phi\phi}$0.40 $M_{r\theta}$0.41 $M_{\theta\phi}$-0.40 $M_{\phi r}$0.11 Best double couple: NP1:ϕ_s103.00000°,δ41.00000°,λ-85.00000°. NP2:ϕ_s277.00000°,δ49.00000°,λ-94.00000°. Principal axes: T 2.6900,Plg4.0000°,Azm10.0000°; N 0.3400,Plg3.0000°,Azm280.0000° ; P -3.0300,Plg85.0000°,Azm151.0000° $M_0$2.90000×10^{17}
MOS Error ellipse: s-maj=9.2km s-min=6.2km az=105.7.
NEIC Event type se. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.70 $M_{\theta\theta}$3.60 $M_{\phi\phi}$0.10 $M_{r\theta}$-1.80 $M_{\theta\phi}$-0.70 $M_{\phi r}$3.10 Best double couple: NP1:ϕ_s129.00000°,δ67.00000°,λ-67.00000°. NP2:ϕ_s262.00000°,δ31.00000°,λ-132.00000°. Principal axes: T 4.6000,Plg19.0000°,Azm203.0000°; N 1.0000,Plg20.0000°,Azm300.0000° ; P -5.6000,Plg61.0000°,Azm73.0000° $M_0$5.00000×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=2.9km az=19.1.
ISC V 18 05 01 42.6–.59 9.28S–.04 112.65E–.04 63–5 5.0b 452 1-166
IDC V 18 05 01 34.3–.34 9.19S 112.62E 0 5.0,4.9 **¶16525131**
BJI V 18 05 01 38.7 9.40S 112.60E 50 5.1b,4.9b
MOS V 18 05 01 39.0–.89 9.15S 112.65E 46 5.2b,4.9b
NEIC V 18 05 01 39.5–.19 9.29S 112.56E 35 5.1b,4.9b
DJA V 18 05 01 39.1–.30 10S–3.0 113E–2.0 10 5.8b,5.8b
KLM V 18 05 01 41.0 9.59S 112.56E 28 6.3s,5.3L
ISCJB V 18 05 01 42.3–.40 9.25S–.03 112.61E–.02 79–3 4.9b,5.3L
ISC Event type fe.
NEIC Event type fe. Felt at Malang. Also felt at Denpasar and Kuta, Bali.
ISCJB Event type fe.
DJA V 19 08 11 16.3–.50 9S–7.0 111E–3.0 53–21 3.7,3.7
¶602004324
ISC V 20 01 13 13.6–1.2 9.75S–.09 112.85E–.06 36 3.4b 12 2-63
DJA V 20 01 13 10.2–1.1 10S–7.0 113E–3.0 10 3.6,3.6 **¶17204002**
ISCJB V 20 01 13 11.9–.86 9.79S–.06 112.78E–.06 36 3.3b,3.6
IDC V 20 01 13 20.4–2.2 11.03S 113.48E 0 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=7.8km az=42.6.
IDC Error ellipse: s-maj=119.5km s-min=23.8km az=48.0.
ISC V 22 13 11 13.2–1.1 9.83S–.09 107.9E–.10 22 3.9b 21 2-145
ISCJB V 22 13 11 10.6–.92 9.89S–.09 107.82E–.08 22 3.8b,2.7s **¶17204227**
IDC V 22 13 11 10.3–2.2 9.88S 107.96E 0 4.0,3.9
DJA V 22 13 11 10.0–.50 10S–5.0 108E–3.0 10 5.0b,4.8b
ISC Event type ke.
ISCJB Event type ke.
DJA V 23 18 45 01.5–.50 9S–12 113E–3.0 67–20 4.2b,4.0
¶602004362
ISC V 27 23 10 00.8–1.2 9.8S–.10 107.71E–.10 23 3.7b 14 2-61
IDC V 27 23 09 57.6–4.0 9.88S 107.69E 0 3.8,3.7 **¶17204600**
DJA V 27 23 09 57.9–.50 10S–5.0 108E–4.0 10 4.3b,4.2
ISCJB V 27 23 09 58.8–1.1 9.76S–.09 107.79E–.09 23 3.6b,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC V 29 14 34 16.3–.88 9.80S–.08 107.84E–.06 22 4.1b 31 2-145
DJA V 29 14 34 12.7–.40 10S–4.0 108E–2.0 10 4.5b,4.3 **¶16637517**
ISCJB V 29 14 34 13.4–.55 9.87S–.05 107.81E–.04 22 4.0b,2.7s
NEIC V 29 14 34 13.4–.48 9.93S 107.75E 10 4.2b,2.7s
IDC V 29 14 34 13.3–2.9 9.75S 107.95E 0 4.1,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=5.4km az=12.9.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=7.5km az=43.0.
IDC Error ellipse: s-maj=137.3km s-min=17.9km az=52.0.
ISC V 31 07 59 42.6–.44 9.19S–.06 108.89E–.04 27 4.5b,3.5s 73 2-155
IDC V 31 07 59 39.4–.60 8.93S 109.14E 0 4.4,4.3 **¶16577355**
ISCJB V 31 07 59 40.5–.34 9.26S–.05 108.84E–.04 27 4.5b,3.5s
NEIC V 31 07 59 44.8–.85 9.14S 108.90E 43–7 4.7b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=13.0km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.2km az=8.9.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.0km az=213.0.
ISC V 31 11 12 28.8–.49 9.03S–.05 108.48E–.04 31 4.4b,3.4s 62 2-84
IDC V 31 11 12 24.2–.77 8.84S 108.56E 0 4.5,4.3 **¶16577359**
ISCJB V 31 11 12 27.0–.32 8.98S–.05 108.48E–.04 31 4.3b,3.4s
NEIC V 31 11 12 28.9–2.1 8.93S 108.58E 31–16 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=30.6km s-min=14.0km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=27.4.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=6.2km az=210.0.
ISC VI 01 16 48 08.0–1.2 9.1S–.10 108.54E–.09 31 3.5b 15 1-60
ISCJB VI 01 16 48 05.9–1.0 9.05S–.10 108.54E–.09 31 3.5b **¶17204908**
DJA VI 01 16 48 05.5–.50 9S–5.0 109E–3.0 10 4.2b,3.9
IDC VI 01 16 48 15.7–4.1 8.91S 108.65E 111–26 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.0km s-min=9.1km az=39.3.
IDC Error ellipse: s-maj=142.4km s-min=18.9km az=51.0.
ISC VI 01 18 46 32.7–.88 9.68S–.08 109.18E–.04 27 3.7b 35 2-98
IDC VI 01 18 46 29.5–2.8 9.50S 109.45E 0 3.8,3.7 **¶17204916**
DJA VI 01 18 46 32.1–.60 10S–5.0 109E–2.0 10 4.6b,4.3
ISC Event type ke.
DJA VI 03 16 05 00.9–1.5 10S–6.0 113E–4.0 24–18 3.7,3.7
¶602004460
ISC VI 07 06 16 47.7–.50 11.18S–.06 113.54E–.05 25 4.2b 87 3-148
IDC VI 07 06 16 44.4–.75 11.14S 113.57E 0 4.3,4.2 **¶16856556**
ISCJB VI 07 06 16 45.5–.42 11.25S–.04 113.43E–.03 25 4.2b,4.2
DJA VI 07 06 16 46.1–1.5 11S–5.0 114E–2.0 37–20 5.6b,5.0
NEIC VI 07 06 16 49.6–.38 11.13S 113.74E 35 4.5b,5.0
ISC Event type se.
IDC Error ellipse: s-maj=33.3km s-min=15.1km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.6km az=24.8.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=6.3km az=56.0.
ISC VI 07 16 13 49.6–1.1 9.1S–.10 110.21E–.05 35 3.1b 18 1-61
IDC VI 07 16 13 43.8–3.1 8.71S 110.27E 0 3.5,3.4L **¶17205496**
ISCJB VI 07 16 13 48.5–.74 9.19S–.08 110.20E–.05 33 3.2b,3.4L
DJA VI 07 16 13 48.0–.60 9S–7.0 110E–3.0 10 4.8b,4.5b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 10 18 01 14.2–1.8 9.15S–.08 113.12E–.04 24–14 3.8b 28 1-88
IDC VI 10 18 01 11.9–1.5 8.37S 113.76E 0 3.7,3.7 **¶17205724**
DJA VI 10 18 01 14.8–.70 9S–4.0 113E–2.0 23–8 3.9,3.9
ISC Event type ke.
ISC VI 14 07 52 49.0–1.2 9.8S–.10 107.43E–.09 23 4.0b 21 2-70
ISCJB VI 14 07 52 46.0–.96 9.93S–.08 107.41E–.07 23 3.8b **¶602004535**
DJA VI 14 07 52 45.6–.50 10S–4.0 107E–3.0 10 5.5b,5.0b
IDC VI 14 07 53 21.4–5.4 8.03S 109.82E 276–65 3.9,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.6km az=40.8.
IDC Error ellipse: s-maj=146.0km s-min=11.5km az=44.0.
DJA VI 14 22 44 40.1–.70 9S–4.0 111E–2.0 26–7 4.8b,4.2
¶602004546
IDC VI 18 17 50 41.3–2.5 10.04S 113.73E 0 3.7,3.5
¶17206478
IDC Error ellipse: s-maj=131.2km s-min=23.8km az=46.0.
DJA VI 19 08 48 37.7–1.0 9S–4.0 113E–2.0 15–9 4.0,4.0
¶602004593
ISC VI 19 12 39 05.9–1.9 9.57S–.09 112.98E–.06 31–14 4.0b 26 1-62
IDC VI 19 12 39 01.2–2.0 9.47S 112.83E 0 4.0,3.8 **¶17206527**
DJA VI 19 12 39 09.0–.90 9S–4.0 113E–2.0 17–8 5.5b,4.9
ISC Event type ke.
ISC VI 19 14 22 09.6–.98 9.71S–.09 112.84E–.05 35 3.9b 26 2-83
IDC VI 19 14 22 03.7–2.4 9.60S 112.64E 0 4.0,4.0L **¶17206530**
ISCJB VI 19 14 22 08.9–.61 9.71S–.05 112.81E–.04 33 3.8s,3.8b
DJA VI 19 14 22 11.0–1.1 10S–5.0 113E–2.0 21–12 4.6b,4.3
ISC Event type ke.
ISCJB Event type ke.
ISC VI 19 14 38 13.1–2.1 9.60S–.07 112.73E–.05 10–14 3.8b 21 1-72
IDC VI 19 14 38 10.6–2.1 9.60S 112.63E 0 4.0,3.8 **¶17206531**
DJA VI 19 14 38 17.1–1.2 10S–7.0 113E–2.0 16–12 4.2,4.2
ISC Event type ke.
ISC VI 19 16 32 49.0–2.2 9.43S–.10 112.70E–.05 16–15 3.3b 21 1-62
IDC VI 19 16 32 45.5–4.1 9.52S 112.62E 0 3.5,3.4 **¶17206535**
DJA VI 19 16 32 55.4–.50 10S–4.0 113E–2.0 37 3.7,3.7
ISC Event type ke.
ISC VI 19 16 35 43.5–.70 9.86S–.07 112.75E–.06 35 4.1b 41 2-75
ISCJB VI 19 16 35 43.0–.51 9.82S–.05 112.74E–.04 33 4.0b,3.3s **¶16714869**
DJA VI 19 16 35 43.8–1.0 10S–5.0 113E–2.0 10–9 5.2b,4.8b
IDC VI 19 16 35 43.5–4.5 9.34S 112.97E 22–30 4.0,3.9
NEIC VI 19 16 35 45.9–1.2 9.50S 112.84E 49–12 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.2km az=28.4.
IDC Error ellipse: s-maj=55.4km s-min=14.2km az=52.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=9.0km az=222.0.
ISC VI 19 21 40 02.6–2.0 9.51S–.09 112.86E–.05 27–16 3.4b 23 1-62
IDC VI 19 21 39 55.8–3.0 9.87S 112.19E 0 3.7,3.6 **¶17206550**
DJA VI 19 21 40 03.6–.80 9S–4.0 113E–2.0 8–6 4.4b,4.2
ISC Event type ke.
ISC VI 20 11 18 36.8–1.8 9.5S–.10 113.90E–.10 31 10 1-24
IDC VI 20 11 16 49.7–4.8 2.90S 104.58E 0 3.5,3.3 **¶602004602**
ISCJB VI 20 11 18 35.8–1.3 9.50S–.08 113.92E–.07 31 2.9b,3.3
DJA VI 20 11 18 37.4–1.2 9S–6.0 114E–5.0 15–8 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC VI 20 20 59 44.0–3.7 9.60S 113.98E 0 3.9,3.7
¶17206629
IDC Error ellipse: s-maj=140.7km s-min=26.4km az=54.0.
DJA VI 20 22 30 51.9–.50 10S–4.0 114E–2.0 10 3.6,3.6
¶602004604
DJA VI 21 16 04 14.4–1.0 9S–5.0 111E–2.0 26–9 4.1b,4.0
¶602004611
ISC VI 22 06 48 40.1–1.3 8.4S–.10 105.84E–.09 22 3.9b 15 2-145
DJA VI 22 06 48 37.1–.50 9S–5.0 106E–5.0 10 4.7b,4.4 **¶17206732**
IDC VI 22 06 48 38.1–3.5 8.10S 106.18E 0 4.0,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=163.1km s-min=20.7km az=50.0.
IDC VI 22 20 22 57.7–2.0 10.15S 113.05E 0 3.9,3.8
¶17206778
IDC Error ellipse: s-maj=102.7km s-min=22.1km az=48.0.
ISC VI 29 11 35 53.6–.40 9.69S–.05 113.72E–.04 26 4.5b,3.8s 110 1-154
IDC VI 29 11 35 49.4–.50 9.50S 113.74E 0 4.5,4.4b **¶16685791**
ISCJB VI 29 11 35 52.0–.28 9.69S–.03 113.71E–.02 26 4.5b,3.7s
DJA VI 29 11 35 52.3–.20 10S–2.0 114E–1.0 10 5.6b,5.1
NEIC VI 29 11 35 55.1–.61 9.58S 113.76E 41–6 4.4b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=22.1km s-min=13.2km az=62.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.2km az=11.9.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.0km az=198.0.
ISC VI 29 15 13 38.7–.90 9.63S–.08 112.83E–.06 36 3.8b 17 1-62
IDC VI 29 15 13 34.4–2.3 9.08S 113.09E 0 3.6,3.5 **¶17207203**
ISCJB VI 29 15 13 38.2–.76 9.66S–.06 112.82E–.06 36 3.5b,3.5
DJA VI 29 15 13 38.8–.70 9S–6.0 113E–3.0 10 3.8,3.8

ISC Event type ke.
ISCJB Event type ke.

(283) Bali region.

ISC II 03 07 22 18.8–.98 9.0S–.10 115.34E–.06 98 3.2b 17 0-63
IDC II 03 07 22 06.4–2.3 8.92S 114.99E 0 3.5,3.4 **¶17191580**
ISCJB II 03 07 22 18.0–.64 9.0S–.10 115.34E–.06 98 3.3b,3.4
DJA II 03 07 22 18.7–.80 9S–15 115E–3.0 59–14 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 26 05 06 29.3–.63 8.60S–.09 115.16E–.05 171–5 4.0b 61 0-151
IDC II 26 05 06 08.4–.71 8.43S 114.72E 0 4.0,4.0 **¶16196735**
ISCJB II 26 05 06 28.8–.31 8.49S–.08 115.17E–.03 178–3 4.0b,4.0
NEIC II 26 05 06 29.4–.54 8.43S 115.15E 172–6 4.6b,4.0
DJA II 26 05 06 30.1–.30 9S–7.0 115E–2.0 164–3 5.0b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 11 15 33 03.8–.45 8.47S–.06 115.40E–.05 200 4.3b 67 0-145
ISCJB III 11 15 33 02.2–.27 8.42S–.05 115.33E–.03 200 4.4b **¶16453103**
NEIC III 11 15 33 03.0–.72 8.26S 115.30E 191–8 4.9b
DJA III 11 15 33 03.9–.10 9S–3.0 115E–1.0 176–2 5.9b,5.5
IDC III 11 15 33 06.6–1.6 8.12S 115.47E 225–16 4.6,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.7km az=16.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.6km az=223.0.
IDC Error ellipse: s-maj=12.8km s-min=9.0km az=46.0.
ISC III 19 10 49 19.6–1.2 8.6S–.20 115.67E–.05 45–18 3.2b 13 0-33
DJA III 19 10 49 18.7–.30 9S–16 116E–3.0 36–5 3.3,3.3 **¶602003278**
ISCJB III 19 10 49 18.8–.68 8.5S–.20 115.67E–.04 49–10 3.3b,3.3
IDC III 19 10 49 41.7–17 10.15S 117.69E 0 3.6,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.9km s-min=5.7km az=7.3.
IDC Error ellipse: s-maj=315.4km s-min=165.8km az=175.0.
ISC III 20 16 29 24.7–.42 8.50S–.05 115.08E–.06 35 4.3b 67 0-151
BJI III 20 16 29 17.0 8.98S 114.52E 10 4.9b,4.4b **¶16341352**
NEIC III 20 16 29 23.4–1.6 8.40S 115.02E 24–12 4.3b,4.4b
ISCJB III 20 16 29 23.3–.28 8.36S–.04 115.09E–.03 35 4.3b,4.1s
DJA III 20 16 29 23.8–.20 8S–3.0 115E–2.0 10 5.1b,4.9b
IDC III 20 16 29 24.4–3.6 8.31S 115.06E 33–27 4.3,4.3
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=11.5km s-min=6.6km az=201.0. Felt [III] at Denpasar and Kuta; [II] at Ubud. Also felt at Singaraja and Tabanan.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=4.3km az=20.9.
IDC Error ellipse: s-maj=22.6km s-min=13.1km az=77.0.
ISC III 28 03 45 33.1–1.0 8.9S–.50 115.18E–.08 97–19 2.9b 15 0-34
IDC III 28 03 45 01.9–11 7.63S 113.33E 0 3.5,3.3 **¶602003609**
DJA III 28 03 45 32.0–.60 9S–7.0 115E–2.0 44–12 3.6,3.6
ISC Event type ke.
IDC IV 05 07 07 49.2–10 8.00S 115.62E 262–111 3.7,3.2
¶17199863
IDC Error ellipse: s-maj=111.2km s-min=25.2km az=58.0.
ISC IV 28 20 52 40.5–.81 8.43S–.06 115.72E–.04 10 3.5b 23 1-34
ISCJB IV 28 20 52 39.5–.44 8.47S–.07 115.72E–.04 10 3.6b **¶17202325**
DJA IV 28 20 52 41.7–.30 8S–4.0 116E–2.0 16–4 4.6b,4.2
IDC IV 28 20 52 41.1–10 7.94S 116.52E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.0km az=19.1.
IDC Error ellipse: s-maj=214.4km s-min=146.3km az=34.0.
ISC V 21 08 44 43.6–.74 8.20S–.06 114.11E–.07 16 4.2b 15 0-145
IDC V 21 08 44 40.8–1.2 8.04S 114.06E 0 4.1,4.0 **¶17204123**
ISCJB V 21 08 44 42.2–.90 8.22S–.09 113.9E–.10 16 4.0b,4.0
DJA V 21 08 44 45.6–.50 8S–5.0 114E–5.0 10–7 4.1,4.1
ISC Event type ke.
ISCJB Event type ke.

(284) South of Bali.

ISC I 13 09 10 22.2–1.5 10.7S–.10 114.05E–.10 35 9 2-23
IDC I 13 09 09 54.8–3.6 11.42S 110.94E 0 3.7,3.5 **¶601989293**
ISCJB I 13 09 10 20.5–1.0 10.7S–.10 114.0E–.10 33 3.2b,3.0s
DJA I 13 09 10 37.8–2.0 9S–17 114E–7.0 107–25 4.7b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 00 04 22.0–.75 10.50S–.08 114.44E–.05 35 4.1b 41 2-95
IDC II 01 00 04 16.5–2.0 10.55S 114.27E 0 4.1,4.0b **¶16328599**
ISCJB II 01 00 04 20.2–.46 10.54S–.05 114.36E–.05 33 4.0b,3.7s
NEIC II 01 00 04 21.8–.90 10.60S 114.30E 35 4.2b,3.7s
DJA II 01 00 04 25.3–1.1 10S–14 114E–4.0 99–37 4.3,4.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 12 07 20 47.7–1.1 9.67S–.09 114.66E–.05 89–11 4.0b 34 1-117
IDC II 12 07 20 36.9–2.0 9.51S 114.51E 0 4.0,3.9 **¶17192105**
ISCJB II 12 07 20 47.3–.70 9.61S–.09 114.67E–.04 105–8 3.9b,3.9
DJA II 12 07 20 49.5–.50 10S–7.0 115E–3.0 53–17 5.4b,5.2b
ISC Event type ke.
ISCJB Event type ke.
ISC II 25 12 26 49.4–.94 9.58S–.08 115.16E–.05 35 3.2b 18 1-33
ISCJB II 25 12 26 48.0–.66 9.68S–.06 115.14E–.04 35 3.2b **¶17192836**
DJA II 25 12 26 49.9–1.0 10S–7.0 115E–3.0 27–9 3.8,3.8
IDC II 25 12 26 50.1–6.8 10.65S 115.02E 0 3.6,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.5km az=23.3.
IDC Error ellipse: s-maj=125.4km s-min=88.9km az=29.0.
ISC III 06 18 59 08.7–.73 11.54S–.07 115.15E–.06 35 3.9b 31 3-118
IDC III 06 18 59 04.5–.94 11.45S 115.28E 0 4.1L,4.0 **¶17193371**
ISCJB III 06 18 59 06.8–.52 11.53S–.04 115.13E–.05 33 3.8b,4.0
DJA III 06 18 59 13.2–.50 11S–10 115E–4.0 109–25 5.4b,4.8
ISC Event type ke.
ISCJB Event type ke.
DJA III 07 19 54 07.3–.70 9S–5.0 114E–2.0 28–7 4.3b,3.8
¶602002728
ISC III 09 14 37 30.0–1.3 9.58S–.09 115.22E–.05 35 17 1-48
IDC III 09 14 37 05.6–2.6 8.82S 113.32E 0 3.7s,3.7 **¶602002867**
ISCJB III 09 14 37 28.6–.67 9.63S–.06 115.22E–.04 35 3.7s,2.8b
DJA III 09 14 37 31.3–.50 9S–6.0 115E–2.0 47–26 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
DJA III 17 22 29 24.3–.80 9S–5.0 114E–3.0 29–8 3.8,3.8
¶602003194
ISC III 23 00 07 33.1–1.0 9.38S–.06 114.05E–.05 55–8 4.7b,4.2s 174 1-151
DJA III 23 00 07 31.4–.60 10S–6.0 114E–3.0 10 5.3,5.3b **¶16342654**
IDC III 23 00 07 31.9–4.5 9.27S 114.03E 43–43 4.6,4.4
NEIC III 23 00 07 32.8–.53 9.39S 114.02E 53–4 4.8W,4.7b
GCMT III 23 00 07 32.8–.40 9.69S 114.04E 47–1 5.0W,4.7b
BJI III 23 00 07 32.5 9.50S 114.00E 51 5.3b,4.9s
ISCJB III 23 00 07 33.0–.51 9.36S–.04 114.06E–.03 72–4 4.6b,4.9s
ISC Event type fe.
NEIC Event type fe. Felt [III] at Denpasar and Nusadua. Also felt at Negara and Ubud. Moment Tensor Solution. s16 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43 $M_{\theta\theta}$-0.87 $M_{\phi\phi}$1.30 $M_{r\theta}$1.30 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.07 Best double couple: NP1:ϕ_s233.00000°,δ71.00000°,λ-37.00000°. NP2: ϕ_s336.00000°,δ55.00000°,λ-15.00000°. Principal axes: T 1.4500,Plg10.0000°,Azm288.0000° ; N 0.5800,Plg49.0000°,Azm29.0000°; P -2.0300,Plg39.0000°,Azm189.0000° $M_0$1.80000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c33; s58,c76;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.69±.28 $M_{\theta\theta}$-3.50±.16; $M_{\phi\phi}$-0.19±.20; $M_{r\theta}$1.81±.13; $M_{\theta\phi}$0.86±.12; $M_{\phi r}$0.03±.15; Best double couple: NP1:ϕ_s97.00000°,δ58.00000°,λ83.00000°. NP2:ϕ_s290.00000°,δ33.00000°,λ101.00000°. Principal axes: T 4.1330,Plg76.0000°,Azm347.0000°; N -0.0280,Plg6.0000°,Azm101.0000° ; P -4.1070,Plg13.0000°,Azm192.0000° $M_0$4.12000×10^{16}
ISCJB Event type fe.

DJA III 23 00 52 13.4–1.1 9S–6.0 114E–3.0 23–11 4.0,4.0
¶602003408
IDC IV 09 17 26 10.7–2.8 11.56S 115.74E 0 3.5,3.4L
¶17200354
IDC Error ellipse: s-maj=141.0km s-min=25.6km az=46.0.
ISC IV 15 08 38 16.9–.99 9.53S–.07 114.16E–.04 68–9 4.3b 75 1-154
ISCJB IV 15 08 38 13.4–.61 9.61S–.05 114.05E–.03 51–6 4.4b **¶16532027**
NEIC IV 15 08 38 16.1–.67 9.63S 114.13E 60–6 4.4b
DJA IV 15 08 38 17.1–.30 9S–5.0 114E–2.0 125–3 5.3b,4.7
IDC IV 15 08 38 19.2–1.8 9.60S 114.32E 89–16 4.3,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.6km az=7.4.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.9km az=205.0.
IDC Error ellipse: s-maj=15.7km s-min=8.6km az=33.0.
ISC IV 15 11 59 12.1–.64 9.77S–.04 114.02E–.04 43–5 4.7b,3.9s 241 1-154
IDC IV 15 11 59 06.1–.41 9.59S 114.14E 0 4.6,4.6 **¶16437958**
BJI IV 15 11 59 08.9 9.70S 114.20E 16 4.9b,4.8b
MOS IV 15 11 59 09.3–1.1 9.52S 114.19E 33 4.8b,4.8b
NEIC IV 15 11 59 11.9–.53 9.71S 114.01E 39–5 4.8b,4.8b
DJA IV 15 11 59 11.3–.20 10S–2.0 114E–1.0 10 5.4b,5.2
ISCJB IV 15 11 59 11.7–.41 9.71S–.03 114.03E–.02 57–3 4.7b,3.8s
KLM IV 15 11 59 14.0 9.94S 113.80E 44 5.7s,4.8b
ISC Event type fe.
IDC Error ellipse: s-maj=19.6km s-min=11.1km az=62.0.
MOS Error ellipse: s-maj=13.4km s-min=6.7km az=113.1.
NEIC Event type fe. Error ellipse: s-maj=6.9km s-min=4.2km az=202.0. Felt [III] at Denpasar and Nusadua.
ISCJB Event type fe. Error ellipse: s-maj=5.2km s-min=3.2km az=21.6.
ISC IV 15 13 10 07.2–1.4 9.54S–.09 114.05E–.04 57–12 4.0b 42 1-154
IDC IV 15 13 09 59.1–.75 9.74S 113.92E 0 4.1,4.0 **¶17201135**
ISCJB IV 15 13 10 05.6–.81 9.59S–.07 114.05E–.03 59–7 4.0b,4.0
DJA IV 15 13 10 08.9–.50 9S–11 114E–2.0 109–6 4.4,4.4
ISC Event type ke.
ISCJB Event type ke.
DJA V 03 09 07 07.7–2.3 10S–12 114E–3.0 20–21 3.7,3.7
¶602004178
DJA V 04 04 41 21.5–.80 10S–7.0 116E–3.0 90 3.7,3.7
¶602004185
ISC V 06 05 41 44.7–.52 11.74S–.06 115.75E–.05 35 4.4b 59 3-152
IDC V 06 05 41 39.9–.68 11.77S 115.77E 0 4.4,4.3 **¶16578027**
ISCJB V 06 05 41 42.4–.41 11.70S–.04 115.79E–.03 33 4.4b,3.2s
NEIC V 06 05 41 45.1–.41 11.81S 115.77E 35 4.5b,3.2s
DJA V 06 05 41 46.7–.50 12S–4.0 116E–2.0 48–16 5.0b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 07 15 54 23.1–.90 9.04S–.10 114.02E–.05 82 3.5b 23 1-62
IDC V 07 15 54 12.3–1.7 9.24S 113.66E 0 3.8,3.6 **¶17202994**
ISCJB V 07 15 54 21.7–.56 9.08S–.07 114.00E–.04 82 3.5b,3.6
DJA V 07 15 54 22.1–.80 9S–6.0 114E–3.0 27–8 4.4b,4.1
ISC Event type ke.
ISCJB Event type ke.
IDC V 10 14 47 45.0–2.6 9.51S 114.04E 0 3.5,3.3
¶17203285
IDC Error ellipse: s-maj=144.2km s-min=24.7km az=47.0.
ISC V 12 14 33 14.0–1.2 9.68S–.07 114.12E–.04 58–11 4.0b 69 1-125
IDC V 12 14 33 06.3–.77 9.69S 114.24E 0 4.2,4.1 **¶16709694**
NEIC V 12 14 33 10.8–.58 9.88S 114.07E 35 4.2b,4.1
ISCJB V 12 14 33 12.5–.65 9.74S–.06 114.10E–.03 66–6 3.9b,4.1
DJA V 12 14 33 14.6–.40 10S–4.0 114E–2.0 47–19 5.2b,4.9b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC VI 17 13 30 55.2–4.6 10.96S 115.75E 0 3.7,3.6
¶17206390
IDC Error ellipse: s-maj=280.5km s-min=21.3km az=47.0.

(285) Sumbawa region.

ISC I 03 07 30 15.7–.97 9.90S–.08 118.97E–.05 33 12 0-70
IDC I 03 07 30 11.0–3.4 9.86S 118.85E 0 3.6b,3.5 **¶17189306**
DJA I 03 07 30 14.6–1.0 10S–7.0 119E–4.0 33–7 3.8,3.8
ISC Event type ke.
ISC I 05 19 13 11.5–.60 8.49S–.06 117.78E–.04 145 3.8b 44 1-117
ISCJB I 05 19 13 10.6–.34 8.50S–.05 117.79E–.03 145 3.6b **¶17189528**
DJA I 05 19 13 11.5–.40 9S–4.0 118E–2.0 137–7 4.8b,4.4
IDC I 05 19 13 12.3–2.1 8.43S 117.70E 157–16 3.8,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.6km az=0.0.
IDC Error ellipse: s-maj=24.0km s-min=9.8km az=56.0.
DJA I 07 14 42 22.2–.60 10S–5.0 119E–3.0 39–5 3.9b,3.7
¶601988946
DJA I 20 18 20 32.0–.30 8S–3.0 118E–3.0 10 3.8,3.8
¶601989719
IDC I 20 23 11 01.8–6.5 9.44S 118.42E 82–55 3.7,3.4
¶17190648
IDC Error ellipse: s-maj=69.9km s-min=18.3km az=68.0.
ISC I 24 13 31 41.3–1.3 8.1S–.20 118.4E–.10 200 7 0-63
ISCJB I 24 13 31 38.2–1.1 8.2S–.10 118.50E–.10 200 3.7b **¶17190895**
IDC I 24 13 31 44.1–9.8 8.10S 118.53E 224–112 3.7,3.3
DJA I 24 13 31 44.4–.50 10S–5.0 118E–3.0 10 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
DJA II 11 06 01 31.4–.60 9S–5.0 118E–3.0 14–4 3.8,3.8
¶602001484
ISC II 13 04 33 01.7–1.1 9.85S–.08 118.53E–.05 35 3.9b 19 1-65
IDC II 13 04 32 53.8–2.2 9.39S 118.59E 0 3.6,3.6b **¶17192139**
ISCJB II 13 04 33 00.7–.61 9.87S–.06 118.56E–.05 35 3.9b,3.6b
DJA II 13 04 33 02.8–1.3 10S–5.0 119E–3.0 29–15 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 14 05 29 27.9–.73 8.56S–.05 118.32E–.03 133–6 3.8b 49 0-145
ISCJB II 14 05 29 27.2–.37 8.57S–.04 118.37E–.03 144–4 3.6b **¶17192222**
IDC II 14 05 29 29.0–5.4 8.55S 118.41E 140–48 3.9,3.6
DJA II 14 05 29 29.2–.40 8S–3.0 118E–2.0 118–5 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 15 02 08 11.7–.73 9.14S–.06 118.46E–.03 100 3.7b 33 1-118
ISCJB II 15 02 08 11.5–.47 9.10S–.05 118.46E–.03 100 3.8b **¶17192277**
IDC II 15 02 08 13.7–3.4 8.96S 118.54E 125–28 3.8,3.4
DJA II 15 02 08 13.1–.50 9S–5.0 118E–2.0 66–11 5.2b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 19 12 48 41.9–1.1 8.16S–.05 118.38E–.09 35 3.5b 16 0-63
IDC II 19 12 48 27.7–1.6 8.19S 117.03E 0 3.9,3.7 **¶17192535**
DJA II 19 12 48 44.2–3.1 8S–4.0 118E–2.0 17–39 5.2b,4.6
ISC Event type ke.
ISC II 20 00 47 10.4–1.1 9.81S–.09 116.39E–.04 35 3.7b 30 1-69
IDC II 20 00 47 03.2–1.5 10.00S 116.07E 0 3.9,3.8 **¶16363003**
ISCJB II 20 00 47 09.1–.65 9.88S–.06 116.46E–.04 35 3.8b,3.8
NEIC II 20 00 47 09.2–1.3 9.97S 116.27E 43–15 4.0b,3.8
DJA II 20 00 47 11.9–1.2 10S–6.0 116E–2.0 18–12 4.7b,4.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 21 06 27 43.8–1.2 9.3S–.10 117.76E–.05 100 3.4b 16 1-69
IDC II 21 06 27 33.8–3.3 8.78S 118.03E 0 3.4,3.4b **¶17192619**
ISCJB II 21 06 27 42.4–.75 9.27S–.08 117.76E–.04 100 3.2b,3.4b
DJA II 21 06 27 42.6–1.0 9S–11 118E–3.0 53–12 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
DJA II 21 12 53 06.6–1.2 9S–19 117E–4.0 57–13 4.3b,3.8

¶602001932

ISC	**II**	**26 12 50 28.4–.90**	**9.60S–.07**	**118.64E–.04**	**48**		**25**	**1-65**	
IDC	II	26 12 50 20.7–2.4	9.68S	118.38E	0	3.5,3.5b			¶17192907
ISCJB	II	26 12 50 26.6–.49	9.67S–.06	118.66E–.03	48	3.6b,3.5b			
DJA	II	26 12 50 27.2–.90	10S–6.0	119E–3.0	14–8	4.3b,4.2			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**II**	**28 13 51 39.5–.81**	**8.60S–.06**	**118.39E–.04**	**135–7**	**3.2b**	**36**	**0-64**	
ISCJB	II	28 13 51 38.8–.36	8.59S–.06	118.37E–.03	139–5	3.1b			¶17193001
IDC	II	28 13 51 39.4–6.0	8.56S	118.39E	129–58	3.5,3.1			
DJA	II	28 13 51 40.2–.40	9S–5.0	118E–2.0	121–5	4.4b,4.3			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**III**	**17 10 20 39.9–1.0**	**8.80S–.07**	**118.92E–.05**	**102**		**13**	**1-64**	
IDC	III	17 10 20 35.5–3.9	9.19S	118.52E	81–33	3.7,3.5			¶17196682
ISCJB	III	17 10 20 38.7–.64	8.92S–.06	119.08E–.06	102	3.5b,3.5			
DJA	III	17 10 20 41.0–.30	9S–4.0	119E–2.0	10	4.4b,4.2			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**III**	**20 03 32 08.6–.65**	**8.67S–.05**	**118.37E–.04**	**128–6**	**4.4b**	**88**	**1-154**	
ISCJB	III	20 03 32 07.8–.26	8.70S–.04	118.38E–.02	135–3	4.2b			¶16339564
NEIC	III	20 03 32 08.1–.56	8.60S	118.35E	126–6	4.5b			
BJI	III	20 03 32 08.1	8.75S	118.08E	124	4.9b,4.6b			
IDC	III	20 03 32 09.6–2.3	8.50S	118.38E	138–21	4.4,4.1			
DJA	III	20 03 32 10.1–.20	9S–3.0	118E–1.0	108–3	5.3b,4.9			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
DJA	**III**	**30 13 09 15.4–.40**	**8S–4.0**	**116E–2.0**	**23–7**	**4.5b,4.1**			

¶602003703

ISC	**III**	**31 11 42 49.6–.61**	**8.10S–.07**	**117.81E–.08**	**35**	**4.2b**	**24**	**4-147**	
IDC	III	31 11 42 44.3–.86	8.13S	117.79E	0	4.2,4.2			¶16475952
ISCJB	III	31 11 42 47.3–.49	8.09S–.05	117.87E–.06	33	4.2b,3.4s			
NEIC	III	31 11 42 47.8–2.5	8.13S	117.81E	22–19	4.5b,3.4s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=30.3km s-min=11.4km az=61.0.								
ISCJB	Event type se. Error ellipse: s-maj=8.9km s-min=7.4km az=149.5.								
NEIC	Event type se. Error ellipse: s-maj=10.9km s-min=7.8km az=224.0.								
IDC	**IV**	**01 01 13 33.6–2.3**	**8.13S**	**118.32E**	**0**	**3.9,3.9L**			

¶17199373

IDC Error ellipse: s-maj=212.3km s-min=26.0km az=53.0.

IDC	**IV**	**03 22 32 20.7–2.9**	**8.72S**	**118.54E**	**0**	**3.5,3.3**			

¶17199710

IDC Error ellipse: s-maj=175.1km s-min=24.2km az=54.0.

IDC	**IV**	**12 10 47 06.2–8.7**	**9.42S**	**116.47E**	**85–104**	**3.7L,3.3**			

¶17200767

IDC Error ellipse: s-maj=118.2km s-min=55.8km az=112.0.

DJA	**IV**	**12 12 35 05.0–.20**	**8S–4.0**	**116E–2.0**	**10**	**5.6b,5.1**			

¶602003963

ISC	**IV**	**12 17 15 01.2–.95**	**8.11S–.07**	**116.11E–.05**	**35**	**3.4b**	**20**	**1-56**	
IDC	IV	12 17 14 56.9–5.2	7.92S	116.21E	0	3.6,3.4			¶17200792
ISCJB	IV	12 17 14 59.6–.50	7.99S–.07	116.14E–.04	33	3.4b,2.2s			
DJA	IV	12 17 14 59.4–.30	8S–3.0	116E–2.0	10	5.7b,5.2			
ISC	Event type ke.								
ISCJB	Event type ke.								
DJA	**IV**	**12 20 42 03.1–.30**	**8S–4.0**	**116E–2.0**	**25–4**	**5.1b,4.5**			

¶602003967

ISC	**IV**	**20 13 35 57.2–1.4**	**8.9S–.10**	**118.2E–.20**	**121**	**3.4b**	**9**	**4-64**	
IDC	IV	20 13 35 53.1–3.9	8.93S	117.62E	81–29	3.5,3.3			¶17201619
ISCJB	IV	20 13 35 55.7–1.2	8.8S–.10	118.0E–.20	121	3.3b,3.3			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**IV**	**25 16 11 16.0–2.3**	**8.28S–.07**	**116.05E–.03**	**5–16**	**3.7b**	**22**	**1-87**	
IDC	IV	25 16 11 15.1–1.1	8.34S	116.02E	0	4.0,3.9			¶17202057
DJA	IV	25 16 11 19.5–.40	8S–7.0	116E–2.0	20–6	4.1,4.1			
ISC	Event type ke.								
ISC	**IV**	**26 15 44 32.9–.86**	**9.56S–.07**	**118.21E–.05**	**35**		**21**	**1-31**	
ISCJB	IV	26 15 44 31.0–.54	9.69S–.06	118.20E–.04	35	3.7b			¶17202159
DJA	IV	26 15 44 34.3–1.0	10S–7.0	118E–3.0	40–9	4.1,4.1			
IDC	IV	26 15 44 40.6–4.0	9.33S	119.32E	64–44	3.6,3.6b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.5km s-min=4.8km az=21.6.								
IDC	Error ellipse: s-maj=50.5km s-min=12.7km az=66.0.								
ISC	**IV**	**30 11 06 51.0–2.0**	**8.4S–.10**	**118.7E–.20**	**152**		**7**	**4-32**	
ISCJB	IV	30 11 06 48.7–1.5	8.6S–.10	118.6E–.10	152	3.7b			¶17202453
IDC	IV	30 11 06 49.6–2.8	8.65S	118.60E	133–28	3.7,3.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=21.7km s-min=14.3km az=148.3.								
IDC	Error ellipse: s-maj=46.9km s-min=21.5km az=40.0.								
IDC	**V**	**02 19 41 21.7–1.6**	**8.35S**	**118.27E**	**0**	**3.9s,3.8**			

¶17202634

IDC Error ellipse: s-maj=62.9km s-min=18.8km az=63.0.

DJA	**V**	**05 06 09 53.6–.60**	**9S–5.0**	**117E–3.0**	**10**	**3.7,3.7**			

¶602004199

IDC	**V**	**09 17 07 36.2–2.2**	**8.09S**	**118.84E**	**0**	**3.6,3.5b**			

¶17203140

IDC Error ellipse: s-maj=66.3km s-min=20.6km az=72.0.

DJA	**V**	**24 16 16 17.0–2.2**	**10S–8.0**	**118E–3.0**	**35–24**	**3.9,3.9**			

¶602004368

DJA	**V**	**24 18 19 12.1–.50**	**9S–8.0**	**118E–4.0**	**10**	**3.8,3.7**			

¶602004371

ISC	**V**	**29 11 24 55.1–.98**	**9.17S–.07**	**118.94E–.04**	**102**		**19**	**1-65**	
ISCJB	V	29 11 24 53.7–.53	9.14S–.06	118.95E–.03	102	3.4b			¶17204691
DJA	V	29 11 24 54.6–.50	9S–7.0	119E–2.0	105–6	4.0,4.0			
IDC	V	29 11 25 01.2–7.3	8.73S	119.55E	159–67	3.3,2.9b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=3.9.								
IDC	Error ellipse: s-maj=136.0km s-min=18.7km az=61.0.								
ISC	**V**	**31 00 42 19.7–1.1**	**8.37S–.08**	**117.1E–.10**	**35**	**3.6b**	**10**	**4-145**	
IDC	V	31 00 42 14.6–1.2	8.29S	117.00E	0	4.0,3.8			¶17204799
ISCJB	V	31 00 42 17.1–1.1	8.33S–.07	117.0E–.10	33	3.8b,3.8			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**V**	**31 04 40 24.8–1.1**	**8.14S–.08**	**117.8E–.10**	**35**	**4.0b**	**10**	**4-87**	
ISCJB	V	31 04 40 22.5–.90	8.12S–.07	117.7E–.10	33	4.3s,3.8b			¶17204808
IDC	V	31 04 40 25.2–5.8	8.09S	117.80E	37–52	4.2,4.2s			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=15.8km s-min=10.0km az=179.7.								
IDC	Error ellipse: s-maj=40.3km s-min=19.6km az=63.0.								
ISC	**VI**	**01 14 23 36.6–2.0**	**8.39S–.07**	**118.62E–.05**	**13–13**		**17**	**1-32**	
DJA	VI	01 14 23 37.3–1.1	8S–5.0	119E–4.0	17–15	4.1,4.1			¶17204895
IDC	VI	01 14 23 40.6–16	9.09S	118.67E	0	3.7,3.6b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=296.5km s-min=167.2km az=4.0.								
ISC	**VI**	**10 15 50 20.8–.75**	**8.70S–.05**	**118.68E–.04**	**10**		**30**	**1-64**	
ISCJB	VI	10 15 50 20.1–.39	8.63S–.04	118.67E–.02	10	3.7b,3.1s			¶17205717
IDC	VI	10 15 50 20.4–1.7	8.68S	119.03E	0	3.9,3.7			
DJA	VI	10 15 50 21.1–.70	9S–3.0	119E–1.0	11–5	4.7b,4.4			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**VI**	**25 23 30 20.3–.81**	**8.4S–.10**	**116.02E–.05**	**194–7**	**3.6b**	**22**	**1-67**	
ISCJB	VI	25 23 30 20.5–.62	8.4S–.10	116.00E–.05	191–5	3.5b			¶17206948
DJA	VI	25 23 30 23.1–.70	9S–29	116E–4.0	171–6	4.0,4.0			
IDC	VI	25 23 30 25.7–6.9	8.03S	116.28E	243–59	3.8,3.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=17.4km s-min=6.4km az=12.5.								
IDC	Error ellipse: s-maj=104.7km s-min=14.3km az=62.0.								
ISC	**VI**	**26 03 22 53.5–.78**	**8.01S–.07**	**117.3E–.10**	**200**	**4.2b**	**22**	**4-117**	
ISCJB	VI	26 03 22 51.4–.62	8.00S–.06	117.21E–.09	200	4.0b			¶16731485
NEIC	VI	26 03 22 53.0–2.7	8.05S	117.29E	200–24	4.1b			
IDC	VI	26 03 22 55.3–3.5	8.02S	117.46E	219–30	4.4,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=13.1km s-min=7.4km az=156.0.								
NEIC	Event type se. Error ellipse: s-maj=44.3km s-min=9.9km az=65.0.								
IDC	Error ellipse: s-maj=50.4km s-min=11.1km az=64.0.								
DJA	**VI**	**27 03 36 44.7–1.1**	**10S–7.0**	**118E–6.0**	**10**	**3.8,3.8**			

¶602004650

(286) Flores region.

ISC	**I**	**23 07 24 37.9–.92**	**8.55S–.09**	**122.99E–.09**	**150**	**3.8b**	**16**	**1-70**	
DJA	I	23 07 24 29.9–1.4	8S–5.0	123E–9.0	241–17	4.7b,4.5b			¶17190783
ISCJB	I	23 07 24 36.9–.78	8.47S–.07	122.96E–.07	150	3.8b,4.5b			
IDC	I	23 07 24 40.4–2.4	8.54S	122.97E	174–22	3.8,3.5b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=12.4km s-min=7.1km az=40.4.								
IDC	Error ellipse: s-maj=42.2km s-min=11.2km az=64.0.								
ISC	**I**	**25 17 02 56.0–.39**	**8.36S–.04**	**119.62E–.04**	**170**	**4.2b**	**124**	**1-145**	
ISCJB	I	25 17 02 55.3–.22	8.32S–.03	119.58E–.02	170	4.2b			¶15968987
NEIC	I	25 17 02 56.7–.53	8.22S	119.63E	175–6	4.6b			
BJI	I	25 17 02 56.7	7.94S	120.32E	169	4.7b,4.5b			
DJA	I	25 17 02 57.7–.20	8S–3.0	120E–2.0	152–6	4.9b,4.8b			
IDC	I	25 17 02 57.2–1.4	8.23S	119.54E	175–12	4.4,4.0			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=3.9km s-min=3.0km az=21.1.								
NEIC	Event type se. Error ellipse: s-maj=8.1km s-min=5.3km az=215.0.								
IDC	Error ellipse: s-maj=21.5km s-min=8.8km az=62.0.								
ISC	**I**	**25 19 15 00.9–.73**	**8.69S–.04**	**119.30E–.03**	**147–7**	**3.7b**	**45**	**1-119**	
ISCJB	I	25 19 15 00.1–.34	8.69S–.04	119.30E–.02	148–4	3.5b			¶17190981
IDC	I	25 19 15 01.8–2.4	8.61S	119.33E	156–19	3.8,3.7			
DJA	I	25 19 15 01.9–.40	9S–3.0	119E–2.0	120–6	5.2b,4.6			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**I**	**27 15 58 03.9–2.7**	**8.58S**	**119.18E**	**170–27**	**3.8,3.5b**			

¶17191119

IDC Error ellipse: s-maj=67.5km s-min=15.3km az=50.0.

IDC	**II**	**02 18 14 14.4–1.7**	**8.12S**	**123.56E**	**0**	**3.9,3.7**			

¶17191554

IDC Error ellipse: s-maj=255.4km s-min=26.9km az=58.0.

IDC	**II**	**09 17 54 38.8–4.1**	**8.61S**	**123.38E**	**187–42**	**3.4,3.0**			

¶17191954

IDC Error ellipse: s-maj=97.1km s-min=15.8km az=59.0.

DJA	**II**	**17 22 04 44.1–1.5**	**8S–8.0**	**121E–5.0**	**156–45**	**3.6,3.6**			

¶602001790

ISC	**II**	**18 18 18 17.9–1.3**	**8.3S–.10**	**119.6E–.10**	**200**		**14**	**1-64**	
ISCJB	II	18 18 18 16.8–1.0	8.3S–.10	119.54E–.09	200	3.0b			¶17192498
IDC	II	18 18 18 16.2–5.2	8.30S	119.31E	178–65	3.3,2.8			
DJA	II	18 18 18 17.9–1.0	8S–17	120E–10	183–12	3.9b,3.6			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**II**	**26 00 36 20.3–.90**	**8.23S–.06**	**119.72E–.06**	**200**		**17**	**1-69**	
ISCJB	II	26 00 36 20.7–.55	8.16S–.06	119.65E–.05	200	3.8b			¶17192871
DJA	II	26 00 36 23.7–.70	8S–5.0	120E–5.0	158–12	3.7,3.7			
IDC	II	26 00 36 24.3–1.9	7.87S	120.07E	226–17	3.8,3.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.3km s-min=6.5km az=33.7.								
IDC	Error ellipse: s-maj=63.1km s-min=10.5km az=54.0.								
IDC	**III**	**06 10 29 10.0–3.5**	**8.14S**	**119.69E**	**205–30**	**3.5,3.0**			

¶17193344

IDC Error ellipse: s-maj=108.4km s-min=13.8km az=61.0.

ISC	**III**	**15 16 31 52.7–.76**	**8.54S–.05**	**119.54E–.05**	**178–7**	**3.9b**	**31**	**1-71**	
ISCJB	III	15 16 31 51.8–.39	8.51S–.04	119.52E–.04	182–4	3.9b			¶17196187
DJA	III	15 16 31 53.5–.40	9S–2.0	120E–2.0	161–5	5.3b,4.8			
IDC	III	15 16 31 55.1–2.1	8.33S	119.82E	194–16	4.2,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=5.6km az=136.1.								
IDC	Error ellipse: s-maj=45.2km s-min=8.3km az=61.0.								
ISC	**III**	**21 13 53 57.5–.43**	**8.10S–.05**	**123.28E–.06**	**250**	**4.2b**	**79**	**1-122**	
BJI	III	21 13 53 53.5	8.02S	123.63E	229	4.5b,4.3b			¶16342410
NEIC	III	21 13 53 55.8–.67	7.89S	123.32E	229–8	4.7b,4.3b			
ISCJB	III	21 13 53 56.2–.26	8.04S–.03	123.25E–.03	250	4.0b,4.3b			
IDC	III	21 13 53 56.1–.88	7.86S	123.38E	226–12	4.3,3.8			
DJA	III	21 13 53 57.2–.30	8S–3.0	123E–2.0	231–4	4.7b,4.2			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
IDC	**III**	**23 01 51 48.1–2.2**	**8.44S**	**119.59E**	**201–17**	**3.6,3.1**			

¶17198109

IDC Error ellipse: s-maj=45.3km s-min=10.0km az=51.0.

ISC	**III**	**23 03 02 35.9–1.1**	**8.95S–.10**	**123.99E–.09**	**74**		**17**	**1-123**	
ISCJB	III	23 03 02 33.3–1.0	8.89S–.09	124.14E–.07	74	3.5b			¶17198114
DJA	III	23 03 02 37.1–1.1	9S–14	124E–9.0	80–10	4.8b,4.3			
IDC	III	23 03 02 38.8–3.0	9.17S	123.74E	103–31	4.0,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=14.2km s-min=6.9km az=33.0.								
IDC	Error ellipse: s-maj=70.9km s-min=27.2km az=40.0.								
IDC	**III**	**30 17 43 22.5–2.5**	**8.48S**	**119.46E**	**190–23**	**3.4,2.9**			

¶17199219

IDC Error ellipse: s-maj=70.1km s-min=15.8km az=47.0.

IDC	**IV**	**04 17 42 17.6–3.1**	**8.33S**	**123.84E**	**179–30**	**3.7,3.3**			

¶17199794

IDC Error ellipse: s-maj=104.3km s-min=15.4km az=59.0.

ISC	**IV**	**15 07 15 41.2–.88**	**8.88S–.08**	**119.08E–.05**	**150**	**3.8b**	**18**	**1-119**	
ISCJB	IV	15 07 15 40.4–.45	8.90S–.06	119.07E–.04	150	3.7b			¶17201102
DJA	IV	15 07 15 41.2–.50	9S–4.0	119E–3.0	138–7	4.0,4.0			
IDC	IV	15 07 15 48.7–4.8	8.84S	119.55E	200–46	3.8,3.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.0km s-min=5.4km az=9.3.								
IDC	Error ellipse: s-maj=68.8km s-min=11.5km az=49.0.								
IDC	**IV**	**15 17 46 33.1–3.5**	**8.34S**	**119.52E**	**192–31**	**3.8,3.3**			

¶17201157

IDC Error ellipse: s-maj=101.4km s-min=12.7km az=62.0.

ISC	**IV**	**19 05 16 10.3–.90**	**8.79S–.06**	**119.01E–.04**	**102**		**17**	**1-69**	
IDC	IV	19 05 15 56.5–1.5	8.90S	118.14E	0	4.1,4.1s			¶17201472
ISCJB	IV	19 05 16 10.8–.59	8.83S–.06	119.03E–.04	102	3.8b,4.1s			
DJA	IV	19 05 16 10.7–.70	9S–4.0	119E–2.0	123–8	4.2b,4.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**IV**	**21 02 37 26.1–3.4**	**8.24S**	**119.55E**	**196–30**	**3.7,3.3b**			

¶17201664

IDC Error ellipse: s-maj=101.3km s-min=13.2km az=62.0.

IDC	**IV**	**25 19 08 51.3–2.4**	**8.22S**	**119.85E**	**0**	**3.6,3.5**			

¶17202071

IDC Error ellipse: s-maj=225.4km s-min=24.2km az=53.0.

ISC	**V**	**03 18 10 06.0–.78**	**8.32S–.06**	**119.97E–.07**	**172**	**3.6b**	**24**	**2-69**	
ISCJB	V	03 18 10 06.2–.47	8.32S–.05	119.98E–.05	172	3.7b			¶17202701
IDC	V	03 18 10 08.5–1.2	8.02S	120.33E	204–11	4.0,3.5			
DJA	V	03 18 10 09.0–.50	8S–4.0	120E–3.0	126–12	5.3b,4.7			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**V**	**09 15 45 42.0–.95**	**8.43S–.06**	**120.52E–.05**	**200**		**26**	**1-30**	
ISCJB	V	09 15 45 41.1–.54	8.46S–.06	120.46E–.05	200	4.5b			¶16577245
IDC	V	09 15 45 41.6–2.1	8.43S	120.93E	137–33	4.4b,3.9			
NEIC	V	09 15 45 42.7–1.3	8.40S	120.50E	176–14	4.1b,3.9			
DJA	V	09 15 45 44.1–.80	8S–5.0	120E–3.0	147–11	3.8,3.8			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**V**	**14 01 42 16.1–.71**	**8.20S–.04**	**123.61E–.05**	**45–6**	**5.1b,4.2s**	**344**	**1-156**	
IDC	V	14 01 42 09.7–.37	8.10S	123.52E	0	4.9,4.9			¶16510223
ISCJB	V	14 01 42 11.9–.80	8.12S–.02	123.67E–.03	23–6	5.0b,4.3s			
MOS	V	14 01 42 13.6–1.1	8.03S	123.57E	33	5.3b,4.3s			
DJA	V	14 01 42 13.7–.10	8S–2.0	124E–2.0	10	5.5b,5.3			

BJI	V	14 01 42 14.1	8.20S	123.70E	45	5.1b,5.1b			
NEIC	V	14 01 42 16.1–.64	8.13S	123.67E	45–6	5.1b,5.1b			
GCMT	V	14 01 42 16.0–.40	8.11S	123.81E	22–1	5.0W,5.1b			
ISC	Event type se.								
IDC	Error ellipse: s-maj=17.9km s-min=10.5km az=70.0.								
ISCJB	Event type se. Error ellipse: s-maj=4.7km s-min=3.6km az=135.5.								
MOS	Error ellipse: s-maj=11.2km s-min=6.4km az=117.9.								
NEIC	Event type se. Error ellipse: s-maj=7.4km s-min=5.0km az=222.0.								
GCMT	Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c27; s59,c78; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.17±.39 $M_{\theta\theta}$-3.38±.25; $M_{\phi\phi}$0.20±.25; $M_{r\theta}$-0.58±.34; $M_{\theta\phi}$-1.37±.14; $M_{\phi r}$1.32±.45; Best double couple: NP1:ϕ_s274.00000°,δ51.00000°,λ122.00000°. NP2:ϕ_s49.00000°,δ49.00000°,λ57.00000°. Principal axes: T 3.8250,Plg66.0000°,Azm249.0000°; N 0.0170,Plg24.0000°,Azm72.0000°; P -3.8460,Plg1.0000°,Azm342.0000° M_o3.83500×10^{16}								
ISC	**V**	**16 04 11 30.2–.86**	**8.81S–.05**	**120.60E–.05**	**134–9**	**4.0b**	**19**	**1-69**	
ISCJB	V	16 04 11 29.1–.51	8.81S–.05	120.60E–.05	142–5	3.9b			¶17203726
DJA	V	16 04 11 32.7–.50	9S–3.0	121E–3.0	98–12	4.1b,4.0			
IDC	V	16 04 11 50.1–7.6	9.52S	120.38E	375–98	3.8,3.4b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.0km s-min=7.4km az=4.3.								
IDC	Error ellipse: s-maj=108.5km s-min=30.8km az=49.0.								
ISC	**V**	**16 11 27 09.8–.54**	**8.88S–.06**	**119.58E–.05**	**150**	**4.3b**	**51**	**1-81**	
ISCJB	V	16 11 27 08.9–.31	8.83S–.04	119.56E–.03	150	4.1b			¶16710011
NEIC	V	16 11 27 09.1–.59	8.75S	119.48E	132–7	4.4b			
IDC	V	16 11 27 10.3–2.3	8.68S	119.56E	140–18	4.3,3.9			
DJA	V	16 11 27 11.3–.20	9S–2.0	120E–2.0	105–4	5.3b,4.9b			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**V**	**17 13 41 03.2–.78**	**8.23S–.05**	**119.94E–.06**	**201**	**3.6b**	**25**	**1-73**	
ISCJB	V	17 13 41 02.4–.41	8.22S–.04	119.90E–.05	201	3.5b			¶17203821
IDC	V	17 13 41 04.6–1.4	7.99S	120.25E	214–15	3.9,3.5			
DJA	V	17 13 41 05.0–.60	8S–4.0	120E–3.0	164–12	3.9,3.9			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**V**	**26 08 57 33.1–.44**	**8.35S–.03**	**121.72E–.03**	**23–2**	**5.3b,4.5s**	**501**	**1-171**	
BJI	V	26 08 57 30.3	8.20S	121.70E	15	5.5b,5.2b			¶16545962
ISCJB	V	26 08 57 33.9–.37	8.33S–.02	121.80E–.02	44–3	5.2b,4.5s			
MOS	V	26 08 57 33.6–1.2	8.19S	121.57E	33	5.4b,4.1s			
GCMT	V	26 08 57 34.3–.10	8.38S	121.70E	12	5.3W,4.1s			
NEIC	V	26 08 57 34.3–1.3	8.30S	121.67E	30–9	5.3b,4.1s			
KLM	V	26 08 57 35.6	8.42S	121.94E	51	6.2s,5.4b			
DJA	V	26 08 57 35.2–.30	8S–2.0	122E–1.0	19–3	5.6b,5.4			
IDC	V	26 08 57 36.8–2.8	8.25S	121.69E	52–24	5.0,4.8			
ISC	Event type fe.								
ISCJB	Event type fe. Error ellipse: s-maj=4.4km s-min=3.2km az=139.3.								
MOS	Error ellipse: s-maj=12.4km s-min=6.6km az=105.3.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c149; s121,c199; Duration: 1^{s}1 Moment tensor: Scale 10^{17}Nm; M_{rr}1.05±.01 $M_{\theta\theta}$-0.15±.01; $M_{\phi\phi}$-0.89±.01; $M_{r\theta}$-0.26±.03; $M_{\theta\phi}$-0.20±.01; $M_{\phi r}$0.01±.03; Best double couple: NP1:ϕ_s206.00000°,δ48.00000°,λ106.00000°. NP2:ϕ_s3.00000°,δ45.00000°,λ73.00000°. Principal axes: T 1.1070,Plg78.0000°,Azm188.0000°; N -0.1560,Plg12.0000°,Azm15.0000°; P -0.9530,Plg2.0000°,Azm285.0000° M_o1.03000×10^{17}								
NEIC	Event type fe. Error ellipse: s-maj=6.6km s-min=3.8km az=56.0. Felt [IV] at Ende and [III] at Maumere and Ruteng.								
IDC	Error ellipse: s-maj=16.0km s-min=10.3km az=57.0.								
IDC	**V**	**26 09 14 27.7–1.5**	**8.22S**	**121.68E**	**0**	**3.9,3.9b**			**¶17204492**
IDC	Error ellipse: s-maj=142.1km s-min=21.1km az=59.0.								
IDC	**V**	**26 09 36 38.7–14**	**8.26S**	**122.20E**	**0**	**3.9b,3.5**			**¶17204495**
IDC	Error ellipse: s-maj=325.5km s-min=183.1km az=31.0.								
IDC	**VI**	**11 22 39 53.3–2.4**	**8.46S**	**121.48E**	**51–27**	**3.7,3.6**			**¶17205803**
IDC	Error ellipse: s-maj=155.6km s-min=15.4km az=63.0.								
IDC	**VI**	**16 02 26 00.9–1.7**	**8.88S**	**123.70E**	**0**	**4.1,4.0L**			**¶17206236**
IDC	Error ellipse: s-maj=120.5km s-min=26.0km az=63.0.								
ISC	**VI**	**19 18 42 07.0–.99**	**8.3S–.20**	**123.2E–.30**	**300**	**3.5b**	**11**	**5-70**	
IDC	VI	19 18 42 05.4–2.5	8.02S	123.67E	278–28	3.9,3.3			¶17206540
ISCJB	VI	19 18 42 06.3–.74	8.2S–.10	123.2E–.20	300	3.5b,3.3			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**VI**	**24 13 01 36.8–4.8**	**8.78S**	**120.38E**	**231–56**	**3.5,3.5**			**¶17206869**
IDC	Error ellipse: s-maj=108.7km s-min=18.6km az=49.0.								
ISC	**VI**	**27 16 47 14.9–.30**	**8.98S–.03**	**122.49E–.03**	**128–2**	**5.7b**	**1710**	**0-170**	
MOS	VI	27 16 47 08.7–.99	8.88S	122.45E	82	6.0b			¶602918790
BJI	VI	27 16 47 13.4	8.90S	122.50E	121	5.9b,5.8b			
ISCJB	VI	27 16 47 14.9–.29	9.07S–.02	122.44E–.02	149–2	5.7b,5.8b			
GCMT	VI	27 16 47 14.3–.10	9.21S	122.56E	133–0	5.6W,5.8b			
NEIC	VI	27 16 47 14.0–.00	8.92S	122.57E	130	5.6W,5.8b			
NEIC	VI	27 16 47 14.3–.45	8.93S	122.47E	120–3	5.8b,5.5W			
DJA	VI	27 16 47 15.7–.20	9S–2.0	122E–1.0	139–2	6.4,6.0b			
IDC	VI	27 16 47 15.6–.84	8.93S	122.53E	129–6	5.8,5.4			
KLM	VI	27 16 47 17.0	9.39S	122.38E	163	6.3s,6.0L			
ISC	Event type fe.								
MOS	Error ellipse: s-maj=7.7km s-min=4.6km az=114.1.								
ISCJB	Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=43.2.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c197; s126,c295;Duration: 1^{s}5 Moment tensor: Scale 10^{17}Nm; M_{rr}0.59±.03 $M_{\theta\theta}$-1.98±.03; $M_{\phi\phi}$1.39±.04; $M_{r\theta}$1.77±.02; $M_{\theta\phi}$0.66±.03; $M_{\phi r}$1.29±.03; Best double couple: NP1:ϕ_s60.00000°,δ82.00000°,λ51.00000°. NP2:ϕ_s321.00000°,δ39.00000°,λ168.00000°. Principal axes: T 2.8900,Plg40.0000°,Azm295.0000°; N -0.0100,Plg38.0000°,Azm66.0000°; P -2.8830,Plg27.0000°,Azm180.0000° M_o2.88600×10^{17}								
NEIC	Event type se. Moment Tensor Solution. s12 Moment tensor: Scale 10^{17}Nm; M_{rr}0.39 $M_{\theta\theta}$-1.19 $M_{\phi\phi}$0.81 $M_{r\theta}$1.75 $M_{\theta\phi}$0.13 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s60.00000°,δ84.00000°,λ66.00000°. NP2:ϕ_s316.00000°,δ25.00000°,λ164.00000°. Principal axes: T 2.1000,Plg46.0000°,Azm305.0000°; N 0.2800,Plg23.0000°,Azm63.0000°; P -2.3800,Plg34.0000°,Azm170.0000° M_o2.30000×10^{17}								
NEIC	Event type fe. Error ellipse: s-maj=4.3km s-min=3.0km az=46.0. Felt [III] at Ende. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$-0.61 $M_{\phi\phi}$0.51 $M_{r\theta}$1.77 $M_{\theta\phi}$0.47 $M_{\phi r}$1.13 Best double couple: NP1:ϕ_s329.00000°,δ19.00000°,λ179.00000°. NP2:ϕ_s60.00000°,δ90.00000°,λ71.00000°. Principal axes: T 2.3200,Plg42.0000°,Azm312.0000°; N -0.2100,Plg19.0000°,Azm60.0000°; P -2.1200,Plg42.0000°,Azm168.0000° M_o2.20000×10^{17}								
IDC	Error ellipse: s-maj=9.1km s-min=6.5km az=60.0.								
ISC	**VI**	**28 19 16 19.9–.38**	**8.87S–.03**	**123.65E–.03**	**100**	**4.7b**	**73**	**1-98**	
IDC	VI	28 19 16 16.8–2.8	8.62S	123.49E	74–27	4.0,3.9			¶16702435
ISCJB	VI	28 19 16 18.6–.27	8.85S–.03	123.58E–.03	100	4.4b,3.9			
NEIC	VI	28 19 16 19.6–.61	8.91S	123.37E	97–8	4.9b,3.9			
BJI	VI	28 19 16 19.6	9.31S	123.09E	122	5.0b,4.5b			
DJA	VI	28 19 16 20.6–.30	9S–5.0	124E–2.0	135–6	5.2b,4.9b			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								

(287) Sumba region.

ISC	**I**	**02 19 58 46.4–.80**	**9.83S–.05**	**119.91E–.04**	**35**	**3.8b**	**27**	**0-70**	
IDC	I	02 19 58 41.6–1.4	9.83S	119.77E	0	3.8,3.7			¶17189236
ISCJB	I	02 19 58 45.3–.53	9.82S–.04	119.89E–.03	33	3.7b,3.7			
DJA	I	02 19 58 45.8–.40	10S–4.0	120E–2.0	19–4	4.0,4.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**I**	**11 17 34 21.6–.62**	**9.28S–.06**	**120.82E–.04**	**35**	**4.4b**	**32**	**1-120**	
ISCJB	I	11 17 34 19.0–.51	9.42S–.05	120.70E–.04	33	4.3b			¶16022600
DJA	I	11 17 34 22.7–.40	9S–6.0	121E–3.0	17–8	5.0b,4.7			
IDC	I	11 17 34 22.3–.97	9.16S	120.77E	50–8	4.1,3.9			
NEIC	I	11 17 34 23.5–1.4	9.34S	120.73E	68–14	4.3b,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=6.8km s-min=5.9km az=175.5.								
IDC	Error ellipse: s-maj=103.2km s-min=17.3km az=60.0.								
NEIC	Event type se. Error ellipse: s-maj=21.6km s-min=10.1km az=61.0.								
ISC	**I**	**13 07 03 13.0–.74**	**9.70S–.06**	**119.37E–.05**	**50**	**4.1b**	**25**	**1-119**	
ISCJB	I	13 07 03 12.1–.50	9.68S–.06	119.32E–.05	50	4.2s,4.1b			¶17190036
DJA	I	13 07 03 13.7–.70	10S–4.0	119E–3.0	30–9	5.1b,4.6b			
IDC	I	13 07 03 16.1–2.9	9.46S	119.80E	71–23	4.2,4.0			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.1km s-min=5.7km az=36.1.								
IDC	Error ellipse: s-maj=42.1km s-min=11.2km az=61.0.								
IDC	**I**	**16 03 21 42.1–1.3**	**9.32S**	**120.89E**	**0**	**3.8,3.8b**			**¶17190293**
IDC	Error ellipse: s-maj=105.6km s-min=23.8km az=55.0.								
DJA	**I**	**20 06 29 43.6–1.2**	**10S–9.0**	**121E–6.0**	**20–6**	**3.5,3.5**			**¶601989684**
DJA	**II**	**13 10 51 31.2–.60**	**10S–6.0**	**120E–4.0**	**39–10**	**3.8,3.8**			**¶602001553**
DJA	**II**	**18 11 53 20.0–.50**	**10S–9.0**	**119E–4.0**	**40–5**	**3.6,3.6**			**¶602001841**
ISC	**II**	**20 13 41 13.2–.56**	**10.57S–.06**	**120.26E–.06**	**30**	**4.5b,3.4s**	**63**	**0-80**	
ISCJB	II	20 13 41 11.0–.37	10.66S–.04	120.21E–.04	30	4.3b,3.5s			¶16172967
BJI	II	20 13 41 12.0	11.25S	120.06E	77	5.0b,4.5s			
NEIC	II	20 13 41 14.8–.74	10.57S	120.16E	49–9	4.3b,4.5s			
DJA	II	20 13 41 15.1–.60	10S–7.0	120E–3.0	10	4.6b,4.5b			
IDC	II	20 13 41 16.4–3.0	10.38S	120.46E	54–27	4.2,4.1L			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=18.2.								
NEIC	Event type se. Error ellipse: s-maj=11.3km s-min=6.7km az=216.0.								
IDC	Error ellipse: s-maj=52.3km s-min=15.7km az=66.0.								
IDC	**II**	**20 22 30 40.0–5.5**	**9.81S**	**119.45E**	**52–54**	**3.6,3.5**			**¶17192608**
IDC	Error ellipse: s-maj=87.9km s-min=16.3km az=71.0.								
DJA	**II**	**23 13 35 37.4–.80**	**10S–7.0**	**119E–4.0**	**21–5**	**3.5,3.5**			**¶602002028**
ISC	**III**	**06 10 11 35.1–.44**	**9.36S–.04**	**119.37E–.04**	**78–3**	**4.5b**	**221**	**0-153**	
MOS	III	06 10 11 31.3–.92	9.14S	119.38E	58	4.8b			¶16196715
BJI	III	06 10 11 33.5	9.30S	119.30E	83	5.0b,5.0b			
IDC	III	06 10 11 35.0–.80	9.20S	119.29E	73–6	4.6,4.3			
ISCJB	III	06 10 11 35.1–.31	9.40S–.03	119.38E–.02	101–3	4.5b,4.3			
NEIC	III	06 10 11 36.2–.54	9.26S	119.35E	88–5	4.5b,4.3			
DJA	III	06 10 11 37.5–.20	10S–2.0	119E–1.0	39–3	5.3b,5.1			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**IV**	**09 11 26 51.6–.93**	**9.71S–.05**	**120.24E–.04**	**61**		**18**	**1-66**	
ISCJB	IV	09 11 26 49.9–.60	9.81S–.05	120.26E–.04	61	3.5b			¶17200329
IDC	IV	09 11 26 50.4–4.7	9.82S	120.04E	67–46	3.8,3.7L			
DJA	IV	09 11 26 52.8–.70	10S–6.0	120E–2.0	33–13	4.0,4.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**IV**	**14 20 33 25.3–.75**	**10.13S–.06**	**119.61E–.04**	**10**	**4.0b**	**23**	**1-119**	
IDC	IV	14 20 33 24.5–1.1	10.09S	119.62E	0	3.7,3.7b			¶17201059
DJA	IV	14 20 33 28.1–.60	10S–6.0	120E–2.0	10	4.4b,4.1			
ISC	Event type ke.								
ISC	**IV**	**14 21 55 57.3–.77**	**10.17S–.07**	**119.91E–.06**	**35**	**3.7b**	**16**	**1-70**	
IDC	IV	14 21 55 51.2–1.4	10.47S	119.23E	0	3.7,3.6			¶17201066
ISCJB	IV	14 21 55 55.5–.64	10.23S–.05	119.94E–.06	33	3.6b,3.6			
DJA	IV	14 21 55 56.2–.40	10S–6.0	120E–3.0	81–5	4.3b,4.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
DJA	**V**	**19 23 50 33.8–1.5**	**9S–27**	**120E–16**	**20–27**	**3.5,3.5**			**¶602004330**
IDC	**V**	**30 05 52 55.7–3.4**	**10.80S**	**119.05E**	**0**	**4.0b,3.6**			**¶17204741**
IDC	Error ellipse: s-maj=255.5km s-min=28.2km az=48.0.								
IDC	**VI**	**02 05 24 22.8–5.5**	**10.39S**	**119.11E**	**63–52**	**3.7,3.6**			**¶17204946**
IDC	Error ellipse: s-maj=89.7km s-min=18.9km az=74.0.								
ISC	**VI**	**06 20 01 20.3–.63**	**9.68S–.06**	**119.56E–.05**	**50**	**4.2b**	**31**	**1-119**	
ISCJB	VI	06 20 01 20.7–.52	9.78S–.06	119.56E–.04	50	4.2b			¶17205429
DJA	VI	06 20 01 23.2–.30	10S–4.0	120E–2.0	61–7	5.1b,4.5			
IDC	VI	06 20 01 24.9–3.7	9.50S	119.56E	97–34	4.1,3.8			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=5.2km az=8.2.								
IDC	Error ellipse: s-maj=44.0km s-min=18.8km az=58.0.								

(288) Savu Sea.

ISC	**I**	**15 08 58 42.2–.48**	**9.50S–.04**	**121.59E–.05**	**100**	**4.4b**	**48**	**1-153**	
ISCJB	I	15 08 58 40.9–.34	9.57S–.04	121.51E–.04	100	4.4b			¶16007272
IDC	I	15 08 58 40.3–.70	9.30S	121.44E	71–6	4.4,4.1			
DJA	I	15 08 58 40.5–.50	10S–2.0	122E–2.0	23–5	5.4b,5.0b			
NEIC	I	15 08 58 40.5–.76	9.37S	121.45E	75–7	4.4b,5.0b			
ISC	Event type fe.								
ISCJB	Event type fe. Error ellipse: s-maj=6.3km s-min=4.9km az=159.0.								
IDC	Error ellipse: s-maj=24.1km s-min=11.0km az=63.0.								
NEIC	Event type fe. Error ellipse: s-maj=11.3km s-min=6.8km az=48.0. Felt [III] at Ende, Indonesia.								
IDC	**I**	**24 18 52 59.1–1.7**	**9.99S**	**122.81E**	**0**	**3.5,3.4**			**¶17190915**
IDC	Error ellipse: s-maj=136.2km s-min=26.4km az=59.0.								
IDC	**II**	**19 04 58 12.7–4.5**	**9.45S**	**122.69E**	**629–82**	**3.5,2.6**			**¶17192519**
IDC	Error ellipse: s-maj=157.3km s-min=35.0km az=49.0.								
IDC	**III**	**02 23 42 47.7–2.3**	**9.20S**	**122.39E**	**0**	**3.4,3.2**			**¶17193163**
IDC	Error ellipse: s-maj=261.4km s-min=31.0km az=54.0.								
ISC	**III**	**26 00 13 43.0–.93**	**9.63S–.06**	**122.02E–.06**	**44**		**14**	**1-71**	
IDC	III	26 00 13 36.1–2.8	9.19S	122.11E	0	4.0b,3.6			¶17198581
ISCJB	III	26 00 13 43.2–.62	9.65S–.04	122.02E–.05	44	4.0b,3.6			
DJA	III	26 00 13 45.1–1.1	10S–4.0	122E–3.0	10–9	3.6,3.6			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**III**	**26 20 19 51.3–.61**	**9.35S–.03**	**121.91E–.04**	**76–6**	**4.5b**	**95**	**1-153**	
BJI	III	26 20 19 48.3	9.40S	121.80E	66	4.9b,4.9s			¶16480939
ISCJB	III	26 20 19 49.9–.37	9.37S–.03	121.91E–.03	87–4	4.4b,4.9s			
NEIC	III	26 20 19 50.4–.63	9.33S	121.81E	67–7	4.4b,4.9s			
IDC	III	26 20 19 52.3–1.2	9.28S	121.93E	81–11	4.4,4.2			
DJA	III	26 20 19 53.4–.50	9S–2.0	122E–2.0	39–7	4.7b,4.6			
ISC	Event type fe.								
ISCJB	Event type fe.								
NEIC	Event type fe. Felt at Ende, Indonesia.								
ISC	**III**	**27 04 18 40.3–.65**	**9.18S–.05**	**122.40E–.04**	**85–6**	**4.3b**	**92**	**1-161**	
IDC	III	27 04 18 38.6–1.6	9.04S	122.35E	68–14	4.4,4.2			¶16481134
NEIC	III	27 04 18 39.9–.45	9.15S	122.29E	83–4	4.4b,4.2			
ISCJB	III	27 04 18 40.6–.34	9.21S–.04	122.40E–.03	111–4	4.3b,4.2			
DJA	III	27 04 18 41.6–.50	9S–2.0	122E–2.0	30–6	5.5b,5.0			
ISC	Event type se.								
NEIC	Event type se.								
ISCJB	Event type se.								
DJA	**IV**	**06 23 43 25.8–.60**	**9S–5.0**	**121E–4.0**	**62–13**	**3.6,3.6**			**¶602003862**
ISC	**VI**	**09 12 04 25.1–.78**	**10.59S–.07**	**122.56E–.08**	**35**	**4.2b**	**20**	**2-151**	
IDC	VI	09 12 04 20.3–1.1	10.37S	122.53E	0	4.4,4.3			¶17205622
ISCJB	VI	09 12 04 22.4–.54	10.66S–.07	122.54E–.09	33	4.1b,4.3			
DJA	VI	09 12 04 29.2–1.1	10S–9.0	122E–5.0	102–12	4.6b,4.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
ISC	**VI**	**13 12 04 04.1–.49**	**9.33S–.04**	**122.99E–.05**	**84–4**	**4.6b**	**117**	**1-152**	
ISCJB	VI	13 12 04 04.1–.46	9.24S–.04	123.04E–.04	100–5	4.5b			¶16593456

IDC VI 13 12 04 04.9–.65 9.07S 122.93E 89–5 4.5,4.2
NEIC VI 13 12 04 04.3–.64 9.23S 122.98E 86–6 4.6b,4.2
DJA VI 13 12 04 06.6–.30 9S–3.0 123E–2.0 73–5 5.2b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 13 20 03 37.4–.45 10.45S–.05 122.46E–.07 100 4.1b 42 2-151
IDC VI 13 20 03 26.3–.53 10.30S 122.33E 0 4.3,4.3L **¶16730422**
DJA VI 13 20 03 35.0–.30 10S–6.0 122E–4.0 121–8 5.2b,4.8b
NEIC VI 13 20 03 35.2–.97 10.35S 122.33E 68–9 4.6b,4.8b
ISCJB VI 13 20 03 36.1–.39 10.40S–.06 122.46E–.07 100 4.2b,4.8b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC VI 28 02 07 31.3–.47 9.19S–.04 121.69E–.04 100 4.3b 69 1-153
ISCJB VI 28 02 07 29.5–.32 9.07S–.04 121.81E–.03 100 4.1b **¶16731660**
NEIC VI 28 02 07 31.9–.75 9.20S 121.58E 114–8 4.5b
IDC VI 28 02 07 31.1–3.6 8.89S 121.52E 89–30 4.3,4.1
DJA VI 28 02 07 32.7–.30 9S–4.0 122E–2.0 99–5 5.7b,5.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

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IDC I 03 11 59 25.0–1.7 9.45S 124.73E 0 3.7,3.7L
¶17189323

IDC Error ellipse: s-maj=107.4km s-min=26.7km az=65.0.
DJA I 16 21 56 32.8–.60 9S–11 123E–6.0 10 3.7,3.7
¶601989450
ISC I 18 11 15 09.0–.39 8.11S–.05 124.14E–.06 200 4.3b 79 2-123
BJI I 18 11 15 00.3 8.65S 124.40E 178 4.9b,4.6b **¶15954490**
ISCJB I 18 11 15 07.3–.26 8.02S–.04 124.09E–.04 200 4.1b,4.6b
IDC I 18 11 15 09.6–2.1 7.89S 124.04E 209–21 4.5,4.0
NEIC I 18 11 15 09.2–.53 7.98S 124.11E 207–6 4.8b,4.0
DJA I 18 11 15 10.5–.80 8S–6.0 124E–5.0 203–12 4.9b,4.6
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 19 08 59 47.7–1.6 8.18S 125.23E 0 3.7L,3.6
¶17190543

IDC Error ellipse: s-maj=187.8km s-min=29.5km az=59.0.
IDC I 20 21 54 22.0–11 8.33S 127.20E 157–91 4.3,3.9
¶17190646

IDC Error ellipse: s-maj=150.8km s-min=72.6km az=70.0.
ISC I 22 15 18 49.1–.35 8.53S–.04 127.98E–.05 35 4.5b,3.9s 130 3-156
ISCJB I 22 15 18 46.4–.28 8.65S–.03 128.17E–.03 35 4.5b,3.9s **¶15959222**
BJI I 22 15 18 47.5 9.09S 128.31E 80 4.9b,4.6b
NEIC I 22 15 18 50.0–.85 8.26S 128.06E 39–8 4.7b,4.6b
IDC I 22 15 18 53.6–2.4 8.25S 128.04E 66–20 4.3,4.1
DJA I 22 15 18 53.6–.30 9S–3.0 128E–2.0 77–4 5.2b,5.0b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC I 25 16 31 20.2–1.9 8.76S 127.09E 0 3.4,3.2
¶17190973

IDC Error ellipse: s-maj=90.3km s-min=27.3km az=71.0.
ISC I 25 17 41 41.7–.92 8.95S–.09 127.3E–.10 35 4.1b 12 8-92
ISCJB I 25 17 41 39.4–.76 9.02S–.07 127.19E–.10 33 4.0b,3.7s **¶17190976**
IDC I 25 17 41 45.1–3.9 9.10S 127.06E 74–40 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=5.8km az=147.0.
IDC Error ellipse: s-maj=51.6km s-min=15.7km az=52.0.
IDC I 25 18 25 05.0–1.9 8.94S 126.79E 0 3.5,3.3
¶17190978

IDC Error ellipse: s-maj=93.2km s-min=27.3km az=70.0.
IDC I 25 18 28 13.6–1.9 8.76S 126.96E 0 3.5,3.4L
¶17190979

IDC Error ellipse: s-maj=88.2km s-min=27.4km az=71.0.
ISC I 27 17 37 11.9–2.0 9.0S–.10 123.9E–.10 100 11 1-67
IDC I 27 17 36 59.2–2.0 8.12S 124.36E 0 3.6,3.6L **¶17191133**
ISCJB I 27 17 37 11.7–1.3 9.1S–.10 123.88E–.08 100 3.0b,3.6L
DJA I 27 17 37 17.0–1.2 9S–9.0 124E–7.0 56–23 4.3b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 28 02 04 42.7–.89 8.94S–.08 127.20E–.10 35 4.1b 14 3-82
IDC I 28 02 04 39.1–1.3 8.81S 126.96E 0 4.0,3.9b **¶16136021**
ISCJB I 28 02 04 40.6–.64 8.91S–.06 127.24E–.07 33 3.9b,3.9b
NEIC I 28 02 04 45.6–2.9 8.96S 127.01E 58–33 4.0b,3.9b
ISC Event type se.
IDC Error ellipse: s-maj=74.9km s-min=23.1km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=7.0km az=143.5.
NEIC Event type se. Error ellipse: s-maj=40.2km s-min=11.2km az=215.0.
ISC I 29 14 14 56.8–.56 8.82S–.07 124.11E–.07 74 4.3b 40 1-152
ISCJB I 29 14 14 53.7–.39 9.00S–.05 124.25E–.04 74 4.2b **¶16136127**
IDC I 29 14 14 56.9–2.8 8.93S 124.06E 75–27 4.3,4.1
NEIC I 29 14 14 58.0–.89 8.96S 124.06E 90–9 4.3b,4.1
DJA I 29 14 15 01.8–.80 9S–5.0 124E–5.0 22–15 4.9b,4.9b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 02 12 04 21.1–2.6 8.27S 124.91E 0 4.0L,3.9
¶17191541

IDC Error ellipse: s-maj=193.2km s-min=30.6km az=64.0.
IDC II 06 00 13 56.8–1.9 8.74S 127.10E 0 3.5,3.4L
¶17191764

IDC Error ellipse: s-maj=88.9km s-min=27.9km az=71.0.
ISC II 08 21 11 46.8–1.1 8.96S–.10 127.1E–.20 35 3.7b 9 9-72
IDC II 08 21 11 42.4–1.6 8.76S 127.08E 0 3.8,3.7 **¶17191912**
ISCJB II 08 21 11 44.9–.90 9.04S–.08 127.0E–.10 33 3.6b,2.9s
ISC Event type ke.
ISCJB Event type ke.
IDC II 13 10 07 55.0–1.9 8.10S 126.28E 0 4.1,4.1s
¶17192149

IDC Error ellipse: s-maj=68.6km s-min=25.2km az=62.0.
IDC II 14 02 10 22.4–1.8 8.31S 124.61E 0 3.7,3.5L
¶17192212

IDC Error ellipse: s-maj=265.9km s-min=31.2km az=58.0.
IDC II 16 05 35 25.2–2.1 9.59S 126.04E 0 3.6L,3.5
¶17192344

IDC Error ellipse: s-maj=163.9km s-min=30.1km az=59.0.
ISC II 17 06 35 44.9–.98 9.49S–.08 125.61E–.09 35 10 2-68
IDC II 17 06 35 41.4–1.3 9.35S 125.46E 0 4.0,3.8 **¶17192403**
ISCJB II 17 06 35 42.7–.81 9.47S–.07 125.68E–.07 33 3.4b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC II 17 10 14 27.8–2.1 8.89S 127.13E 0 3.6,3.5b
¶17192410

IDC Error ellipse: s-maj=165.6km s-min=33.2km az=61.0.
ISC II 18 04 39 25.2–.97 8.97S–.09 127.51E–.08 35 4.0b 17 3-127
IDC II 18 04 39 19.8–1.4 8.73S 127.39E 0 4.1,4.1L **¶16305022**
ISCJB II 18 04 39 22.3–.75 8.96S–.06 127.53E–.05 33 3.8b,4.1L
NEIC II 18 04 39 24.7–.71 8.83S 127.55E 35 4.1b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=82.4km s-min=24.0km az=66.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=5.7km az=31.2.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.6km az=205.0.
ISC II 21 14 40 42.2–.63 8.98S–.09 124.2E–.20 74 4.0b 20 6-124
ISCJB II 21 14 40 40.5–.47 8.9S–.10 124.2E–.20 74 3.9b **¶17192638**
IDC II 21 14 40 44.5–2.6 8.91S 124.29E 94–27 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.4km s-min=8.1km az=148.3.

IDC Error ellipse: s-maj=35.4km s-min=14.7km az=55.0.
ISC III 01 10 46 03.7–1.1 8.78S–.08 124.8E–.10 10 3.7b 10 2-71
ISCJB III 01 10 46 00.6–.93 8.77S–.07 124.89E–.09 10 3.6b **¶17193065**
IDC III 01 10 46 02.5–1.3 8.56S 124.71E 0 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=9.3km az=161.6.
IDC Error ellipse: s-maj=47.8km s-min=20.5km az=81.0.
IDC III 02 12 14 29.7–3.1 9.17S 123.92E 120–36 3.8,3.5
¶17193129

IDC Error ellipse: s-maj=94.0km s-min=25.8km az=52.0.
ISC III 02 18 22 41.2–.99 8.21S–.07 125.1E–.10 27 11 2-67
IDC III 02 18 22 36.4–1.7 8.05S 124.86E 0 3.5,3.5L **¶17193156**
ISC Event type ke.
IDC Error ellipse: s-maj=37.4km s-min=18.1km az=101.0.
IDC III 11 15 18 57.8–4.1 8.14S 124.44E 126–61 3.8,3.5
¶17193958

IDC Error ellipse: s-maj=85.7km s-min=22.4km az=69.0.
IDC III 14 03 53 11.4–1.5 8.82S 127.10E 0 4.2,4.2L
¶17195059

IDC Error ellipse: s-maj=82.8km s-min=23.8km az=67.0.
IDC III 16 07 10 44.0–1.9 8.45S 124.69E 0 4.0,3.9L
¶17196368

IDC Error ellipse: s-maj=51.0km s-min=26.1km az=77.0.
IDC III 18 12 47 40.8–1.8 9.15S 125.91E 0 4.1,3.9
¶17197016

IDC Error ellipse: s-maj=176.4km s-min=31.3km az=59.0.
IDC III 19 20 31 57.8–1.7 8.97S 124.83E 0 3.6,3.4
¶17197322

IDC Error ellipse: s-maj=41.4km s-min=25.3km az=80.0.
ISC III 21 09 20 25.1–.76 8.18S–.04 124.68E–.07 10 4.3b 21 2-82
IDC III 21 09 20 24.1–1.0 8.16S 124.77E 0 4.4,4.3 **¶17197654**
DJA III 21 09 20 41.9–.80 9S–4.0 124E–4.0 20–13 4.7b,4.3b
ISC Event type ke.
ISC III 23 02 57 41.8–.70 9.25S–.06 123.83E–.05 97–7 4.1b 48 1-152
IDC III 23 02 57 40.1–2.8 8.90S 124.12E 72–27 4.2,4.1 **¶16480357**
ISCJB III 23 02 57 40.6–.41 9.25S–.05 123.89E–.04 103–5 4.1b,4.1
NEIC III 23 02 57 41.5–.62 9.21S 123.86E 86–7 4.4b,4.1
DJA III 23 02 57 43.0–.40 9S–4.0 124E–2.0 65–7 5.2b,4.7b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC III 25 01 57 16.8–6.4 8.02S 127.32E 221–71 3.9,3.4
¶17198440

IDC Error ellipse: s-maj=81.4km s-min=23.2km az=42.0.
IDC III 31 10 08 09.4–1.8 9.02S 124.25E 0 4.0,3.8s
¶17199283

IDC Error ellipse: s-maj=48.5km s-min=24.3km az=80.0.
IDC IV 05 15 57 20.6–6.9 8.30S 124.22E 70–59 3.5,3.4
¶17199912

IDC Error ellipse: s-maj=99.8km s-min=48.0km az=115.0.
IDC IV 05 22 56 37.6–2.0 8.96S 126.25E 0 4.0,3.9L
¶17199937

IDC Error ellipse: s-maj=45.1km s-min=29.6km az=66.0.
IDC IV 08 00 31 32.8–1.2 9.62S 123.55E 106–16 3.8,3.5
¶17200180

IDC Error ellipse: s-maj=111.0km s-min=25.3km az=59.0.
IDC IV 08 20 22 47.5–1.7 8.97S 125.39E 0 3.5,3.4L
¶17200281

IDC Error ellipse: s-maj=42.0km s-min=26.5km az=75.0.
IDC IV 09 20 01 55.9–1.4 9.21S 123.30E 0 3.7,3.6
¶17200367

IDC Error ellipse: s-maj=113.2km s-min=24.2km az=64.0.
IDC IV 13 20 29 02.6–1.7 8.37S 124.85E 0 3.7,3.6L
¶17200940

IDC Error ellipse: s-maj=49.6km s-min=24.4km az=78.0.
ISC IV 15 15 21 30.5–.89 10.60S–.06 123.14E–.05 35 15 1-68
ISCJB IV 15 15 21 29.7–.61 10.65S–.05 123.07E–.04 33 3.4b **¶17201139**
DJA IV 15 15 21 32.5–.60 10S–4.0 123E–3.0 26–8 3.8b,3.7
IDC IV 15 15 21 32.8–2.2 10.35S 123.35E 66–28 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.9km az=13.1.
IDC Error ellipse: s-maj=73.0km s-min=25.4km az=75.0.
IDC IV 15 17 33 38.2–1.7 9.35S 124.77E 0 3.4,3.3
¶17201153

IDC Error ellipse: s-maj=39.1km s-min=26.3km az=76.0.
ISC IV 16 20 03 48.3–.57 9.32S–.06 123.40E–.07 100 4.3b 39 1-71
IDC IV 16 20 03 39.4–1.3 8.99S 123.11E 0 3.9,3.8 **¶16631125**
ISCJB IV 16 20 03 47.2–.37 9.32S–.06 123.40E–.06 100 4.2b,3.8
NEIC IV 16 20 03 50.0–1.4 9.52S 123.11E 117–15 4.4b,3.8
DJA IV 16 20 03 54.6–.30 9S–5.0 123E–3.0 10 4.9b,4.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 16 21 03 54.0–.64 10.56S–.05 123.23E–.05 35 4.1b 32 1-123
ISCJB IV 16 21 03 53.7–.47 10.60S–.04 123.20E–.04 35 4.0b,3.6s **¶16532029**
DJA IV 16 21 03 54.9–.60 11S–3.0 123E–3.0 15–5 5.3b,4.8
NEIC IV 16 21 03 55.5–.81 10.08S 123.97E 52–11 4.2b,4.8
IDC IV 16 21 03 55.6–1.6 10.11S 123.93E 51–19 4.1L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.2km az=142.5.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=7.6km az=50.0.
IDC Error ellipse: s-maj=43.6km s-min=19.9km az=52.0.
IDC IV 17 20 52 49.6–1.7 9.01S 125.30E 0 3.8b,3.7
¶17201358

IDC Error ellipse: s-maj=88.2km s-min=24.1km az=70.0.
IDC IV 19 09 37 14.5–7.8 8.17S 127.79E 54–80 3.9b,3.8
¶17201486

IDC Error ellipse: s-maj=58.6km s-min=49.1km az=68.0.
IDC IV 23 05 32 32.1–4.3 8.36S 127.27E 294–56 4.2,3.7
¶17201858

IDC Error ellipse: s-maj=71.5km s-min=24.8km az=55.0.
ISC IV 24 14 10 29.3–.73 9.44S–.06 123.28E–.06 75 3.7b 24 1-123
ISCJB IV 24 14 10 27.9–.60 9.51S–.06 123.40E–.06 75 3.6b **¶17201965**
IDC IV 24 14 10 28.4–1.3 9.32S 123.36E 74–14 3.9,3.7
DJA IV 24 14 10 30.3–.90 9S–3.0 123E–3.0 12–9 5.1b,4.4
ISC Event type ke.
ISCJB Event type ke.
IDC IV 26 20 56 43.4–2.1 9.03S 123.31E 0 3.7L,3.6
¶17202185

IDC Error ellipse: s-maj=263.6km s-min=30.8km az=55.0.
ISC IV 26 21 43 48.2–.48 9.02S–.03 125.68E–.03 20–2 5.4b,4.9s 1083 2-172
IDC IV 26 21 43 45.1–.33 8.94S 125.57E 0 5.3,5.3b **¶16462191**
ISCJB IV 26 21 43 46.4–.91 8.95S–.02 125.63E–.02 21–6 5.3b,4.9s
NEIC IV 26 21 43 47.5–2.0 8.81S 125.66E 10–11 5.5b,5.0s
GCMT IV 26 21 43 47.5–.10 9.24S 125.81E 22–0 5.3W,5.0s
BJI IV 26 21 43 48.3 8.90S 125.70E 25 5.2b,5.2b
MOS IV 26 21 43 49.4–1.6 8.78S 125.55E 33 5.6b,4.9s
DJA IV 26 21 43 52.1–.30 9S–2.0 126E–2.0 50–5 5.8,5.7b
KLM IV 26 21 43 56.1 9.03S 125.66E 85 6.0s,5.4b
ISC Event type fe.
IDC Error ellipse: s-maj=13.5km s-min=9.7km az=74.0.
ISCJB Event type fe. Error ellipse: s-maj=4.0km s-min=3.3km az=27.4.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.4km az=47.0. Felt [II] at Dili.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c146; s92,c177; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.91±.03 $M_{\theta\theta}$-0.92±.02; $M_{\phi\phi}$0.01±.02; $M_{r\theta}$0.23±.03; $M_{\theta\phi}$-0.33±.01; $M_{\phi r}$-0.19±.04; Best double couple: NP1:ϕ_s88.00000°,δ52.00000°,λ110.00000°. NP2:ϕ_s237.00000°,δ43.00000°,λ66.00000°. Principal axes: T 0.9910,Plg73.0000°,Azm57.0000°; N 0.0440,Plg16.0000°,Azm255.0000°; P -1.0350,Plg5.0000°,Azm164.0000° $M_0$1.01300×10^{17}
MOS Error ellipse: s-maj=8.3km s-min=5.2km az=105.5.

ISC V 11 03 01 33.9–.90 10.55S–.06 124.30E–.07 35 16 1-68
ISCJB V 11 03 01 32.2–.55 10.58S–.05 124.33E–.07 33 4.0s,3.6b ¶17203345
DJA V 11 03 01 35.0–.70 10S–4.0 124E–4.0 24–7 5.2b,4.5
IDC V 11 03 01 35.4–3.1 10.47S 124.31E 59–36 4.0,4.0s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.2km az=151.2.
IDC Error ellipse: s-maj=72.5km s-min=20.7km az=64.0.
IDC V 14 02 55 11.1–1.7 10.20S 123.95E 0 3.5s,3.5
¶17203582
IDC Error ellipse: s-maj=111.1km s-min=26.7km az=62.0.
IDC V 16 16 48 44.9–1.7 8.91S 124.50E 0 3.8,3.8L
¶17203759
IDC Error ellipse: s-maj=115.5km s-min=26.4km az=65.0.
IDC V 17 08 49 34.2–2.1 9.62S 124.38E 0 4.4,4.4s
¶17203809
IDC Error ellipse: s-maj=222.8km s-min=33.2km az=55.0.
ISC V 17 09 45 09.3–.88 9.89S–.06 124.32E–.06 27–6 4.2b 36 0-151
IDC V 17 09 45 06.1–.88 9.68S 124.06E 0 4.3L,4.2 ¶16710095
ISCJB V 17 09 45 08.0–.52 9.95S–.04 124.28E–.07 38–6 4.2b,3.2s
NEIC V 17 09 45 07.4–.54 9.78S 124.36E 10 4.6b,3.2s
DJA V 17 09 45 09.5–.40 10S–3.0 124E–3.0 10 4.8b,4.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 17 09 54 32.9–2.0 9.72S 124.37E 0 3.7,3.6b
¶17203814
IDC Error ellipse: s-maj=110.0km s-min=29.0km az=64.0.
ISC V 17 11 01 55.0–.45 9.92S–.05 124.27E–.06 19 4.7b 61 0-151
ISCJB V 17 11 01 52.0–.36 9.94S–.04 124.33E–.05 19 4.6b ¶16710102
IDC V 17 11 01 52.3–.74 9.76S 124.05E 0 4.7L,4.6
NEIC V 17 11 01 54.1–.47 9.77S 124.32E 10 4.6b,4.6
DJA V 17 11 01 57.2–.40 10S–4.0 124E–3.0 10 5.1b,4.8b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 19 15 57 03.9–1.7 9.83S 124.03E 0 3.7b,3.6
¶17203979
IDC Error ellipse: s-maj=112.6km s-min=26.9km az=63.0.
IDC VI 03 22 20 07.0–1.8 9.11S 126.36E 0 3.5,3.3
¶17205132
IDC Error ellipse: s-maj=95.4km s-min=27.2km az=69.0.
IDC VI 09 18 11 26.0–1.8 9.25S 126.44E 0 3.8,3.6
¶17205649
IDC Error ellipse: s-maj=89.3km s-min=27.0km az=69.0.
IDC VI 12 16 47 47.0–1.8 9.34S 125.54E 0 4.0L,3.9
¶17205840
IDC Error ellipse: s-maj=94.2km s-min=27.5km az=67.0.
ISC VI 13 05 47 50.3–1.1 9.66S–.10 125.4E–.20 35 4.0b 9 7-76
IDC VI 13 05 47 45.6–1.3 9.59S 125.05E 0 4.2L,4.1 ¶17206031
ISCJB VI 13 05 47 47.9–.87 9.75S–.08 125.2E–.20 33 4.2s,3.9b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 13 06 10 04.3–1.1 9.7S–.10 125.3E–.20 35 9 8-68
IDC VI 13 06 09 59.3–1.7 9.51S 125.21E 0 3.7,3.6L ¶17206032
ISCJB VI 13 06 10 02.5–.96 9.79S–.09 125.2E–.10 35 3.4b,3.6L
DJA VI 13 06 11 29.8–.50 4S–7.0 121E–3.0 10 3.1,3.1
ISC Event type ke.
ISCJB Event type ke.
IDC VI 13 10 51 26.2–1.7 9.55S 125.06E 0 3.4,3.3
¶17206043
IDC Error ellipse: s-maj=102.0km s-min=26.8km az=66.0.
IDC VI 17 10 11 21.2–1.2 9.84S 123.22E 0 4.4,4.1
¶17206379
IDC Error ellipse: s-maj=18.3km s-min=12.0km az=29.0.
ISC VI 19 10 00 32.6–.91 9.75S–.08 123.96E–.06 66 15 0-67
IDC VI 19 10 00 24.8–2.1 9.58S 123.50E 0 3.9,3.9b ¶17206521
ISCJB VI 19 10 00 31.0–.81 9.72S–.08 124.01E–.06 66 3.7b,3.9b
DJA VI 19 10 00 35.0–.40 10S–5.0 124E–3.0 57–7 4.1b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 01 59 14.6–.51 9.39S–.06 125.62E–.06 35 4.2b 37 1-151
IDC VI 22 01 59 09.9–.86 9.22S 125.46E 0 4.4,4.2 ¶16731190
ISCJB VI 22 01 59 12.2–.37 9.40S–.04 125.58E–.05 33 4.3b,3.8s
NEIC VI 22 01 59 15.2–.69 9.37S 125.51E 40–8 4.2b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=17.8km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.3km az=150.4.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=50.0.

(290) Timor Sea.

IDC I 16 11 24 19.6–3.3 8.00S 129.70E 149–33 3.6,3.4
¶17190316
IDC Error ellipse: s-maj=65.8km s-min=19.1km az=85.0.
ISC I 23 11 47 29.9–.82 9.11S–.07 129.8E–.20 35 3.8b 11 8-149
ISCJB I 23 11 47 28.7–.67 9.01S–.06 130.0E–.20 33 3.8b ¶17190799
IDC I 23 11 47 31.6–3.7 8.94S 129.94E 37–33 4.0L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.1km s-min=7.6km az=170.0.
IDC Error ellipse: s-maj=50.6km s-min=19.1km az=76.0.
IDC I 24 20 19 57.1–2.0 8.98S 128.06E 0 3.2,3.1
¶17190922
IDC Error ellipse: s-maj=245.5km s-min=31.7km az=63.0.
IDC I 25 14 19 30.0–1.7 8.14S 129.74E 0 3.8,3.6
¶17190967
IDC Error ellipse: s-maj=58.2km s-min=24.6km az=86.0.
IDC I 28 19 11 15.0–11 8.15S 128.93E 170–89 3.8,3.4
¶17191208
IDC Error ellipse: s-maj=132.8km s-min=80.5km az=76.0.
IDC II 04 23 11 33.0–6.7 8.14S 128.58E 414–98 3.6,2.8
¶17191701
IDC Error ellipse: s-maj=58.2km s-min=46.4km az=44.0.
IDC II 09 00 11 52.3–2.3 8.02S 128.25E 0 3.4,3.3
¶17191920
IDC Error ellipse: s-maj=266.7km s-min=32.4km az=64.0.
IDC II 16 05 49 00.6–5.1 9.19S 127.36E 101–57 3.7,3.5
¶17192345
IDC Error ellipse: s-maj=51.7km s-min=15.9km az=35.0.
IDC II 25 14 32 28.5–8.7 8.35S 129.68E 203–125 3.6,3.1
¶17192842
IDC Error ellipse: s-maj=69.9km s-min=26.2km az=92.0.
IDC III 19 22 02 11.5–1.9 9.50S 129.59E 0 3.6,3.5L
¶17197341
IDC Error ellipse: s-maj=44.8km s-min=27.5km az=73.0.
IDC III 25 13 14 43.4–2.3 8.38S 129.93E 0 3.9,3.7
¶17198506
IDC Error ellipse: s-maj=108.0km s-min=34.5km az=68.0.
IDC III 25 13 37 20.4–2.0 8.46S 129.68E 0 4.2,4.0
¶17198507
IDC Error ellipse: s-maj=108.5km s-min=31.7km az=67.0.
IDC IV 05 07 38 04.5–1.9 8.94S 128.27E 0 3.5,3.5b
¶17199869
IDC Error ellipse: s-maj=62.8km s-min=23.4km az=74.0.
IDC IV 15 20 42 19.6–33 8.04S 128.68E 601–167 3.5,2.7
¶17201170
IDC Error ellipse: s-maj=412.4km s-min=103.7km az=158.0.
IDC IV 23 06 59 47.4–8.4 8.32S 128.13E 148–95 3.8,3.5
¶17201860
IDC Error ellipse: s-maj=106.8km s-min=27.8km az=47.0.
ISC IV 29 07 45 49.6–1.7 9.2S–.10 127.50E–.10 35 3.8b 10 4-127
IDC IV 29 07 45 40.4–1.6 8.65S 127.69E 0 4.3,4.1L ¶17202360
ISCJB IV 29 07 45 48.0–2.8 9.3S–.20 127.5E–.10 33 3.8b,4.1L
ISC Event type ke.
ISCJB Event type ke.
IDC VI 02 23 29 26.4–7.5 8.44S 129.58E 83–83 4.1L,4.0
¶17205041
IDC Error ellipse: s-maj=52.5km s-min=42.1km az=26.0.
ISC VI 07 06 54 24.6–1.1 8.24S–.08 129.4E–.20 131 3.7b 8 10-69
IDC VI 07 06 54 13.5–1.2 7.57S 129.07E 0 4.2,4.1L ¶17205460
ISC Event type ke.
IDC Error ellipse: s-maj=55.8km s-min=21.1km az=80.0.
IDC VI 07 16 33 25.9–6.4 8.07S 129.42E 0 3.9b,3.4
¶17205497
IDC Error ellipse: s-maj=89.3km s-min=72.1km az=88.0.
IDC VI 09 04 58 59.4–1.9 8.19S 129.61E 0 3.5,3.3
¶17205596
IDC Error ellipse: s-maj=57.8km s-min=24.0km az=79.0.
IDC VI 10 15 27 57.2–8.5 8.60S 129.82E 101–95 3.5,3.4L
¶17205715
IDC Error ellipse: s-maj=58.4km s-min=41.8km az=13.0.
IDC VI 21 19 28 40.6–1.9 8.33S 128.85E 0 3.6,3.4L
¶17206696
IDC Error ellipse: s-maj=66.8km s-min=23.7km az=77.0.
IDC VI 25 18 05 14.7–18 9.00S 127.60E 317–138 3.6,3.0
¶17206931
IDC Error ellipse: s-maj=202.4km s-min=71.8km az=16.0.
IDC VI 30 08 39 13.9–6.8 9.17S 128.17E 57–69 3.7L,3.6
¶17207242
IDC Error ellipse: s-maj=89.0km s-min=35.9km az=51.0.

(291) South of Sumbawa.

ISC I 06 14 52 27.7–1.1 11.35S–.08 117.42E–.07 34 18 3-71
ISCJB I 06 14 52 27.5–.91 11.34S–.09 117.47E–.09 34 3.5b ¶17189598
DJA I 06 14 52 36.7–1.3 11S–12 117E–4.0 88–42 4.3b,4.0b
IDC I 06 14 52 36.8–1.7 11.13S 119.03E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=8.3km az=136.4.
IDC Error ellipse: s-maj=77.8km s-min=20.1km az=55.0.
ISC I 06 23 12 26.4–.89 11.35S–.09 118.40E–.06 26 4.2b 21 2-86
IDC I 06 23 12 21.5–1.7 11.49S 118.08E 0 4.0b,3.8 ¶16009327
NEIC I 06 23 12 22.1–1.1 11.56S 117.94E 10 4.3b,3.8
ISCJB I 06 23 12 24.1–.70 11.34S–.06 118.40E–.05 26 4.2b,3.8
DJA I 06 23 12 25.3–.80 11S–7.0 118E–3.0 10 4.9b,4.5b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 16 10 10 22.2–1.1 11.36S–.08 117.43E–.06 41 18 3-66
IDC II 16 10 10 16.9–2.1 11.60S 117.17E 0 3.8,3.8L ¶17192361
ISCJB II 16 10 10 21.0–.78 11.36S–.05 117.50E–.07 41 3.8b,3.5s
DJA II 16 10 10 29.1–1.0 11S–10 117E–4.0 106–15 5.2b,4.8b
ISC Event type ke.
ISCJB Event type ke.
ISC II 18 07 00 52.1–.95 11.20S–.08 116.82E–.06 41 26 2-70
IDC II 18 07 00 46.3–1.7 11.41S 116.53E 0 4.0,4.0L ¶16160040
ISCJB II 18 07 00 50.2–.66 11.30S–.08 116.88E–.06 41 4.0b,4.0L
NEIC II 18 07 00 52.4–.92 11.20S 116.86E 35 4.4b,4.0L
DJA II 18 07 00 56.9–1.3 11S–14 117E–4.0 10 4.3,4.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 22 09 30 58.2–1.2 11.30S–.10 116.74E–.07 35 19 3-66
IDC II 22 09 30 55.2–2.4 10.69S 117.41E 0 3.6,3.6b ¶17192694
ISCJB II 22 09 30 56.4–.77 11.29S–.05 116.79E–.06 33 3.9b,3.6b
DJA II 22 09 31 01.7–1.5 11S–12 117E–4.0 12–21 4.2b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 11 27 08.6–.77 10.98S–.08 116.36E–.07 35 4.4b 37 2-70
IDC III 06 11 27 04.4–1.5 10.90S 116.20E 0 4.1,4.0 ¶16314224
ISCJB III 06 11 27 06.7–.51 11.00S–.07 116.29E–.04 33 4.3b,4.0
DJA III 06 11 27 07.2–.60 11S–7.0 116E–3.0 10 4.4b,4.2
NEIC III 06 11 27 09.6–.54 10.88S 116.28E 35 4.0b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=45.3km s-min=18.1km az=45.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=4.8km az=17.3.
NEIC Event type se. Error ellipse: s-maj=13.3km s-min=6.1km az=216.0.
IDC III 21 18 37 05.2–4.1 11.58S 117.92E 0 3.4b,3.1
¶17197732
IDC Error ellipse: s-maj=264.9km s-min=30.9km az=46.0.
DJA III 26 16 58 07.6–1.3 10S–5.0 118E–4.0 19–15 3.6,3.6
¶602003542
ISC IV 01 02 14 31.4–.68 10.50S–.06 118.72E–.04 51 4.3b 38 2-97
ISCJB IV 01 02 14 29.8–.43 10.50S–.04 118.70E–.04 51 4.3b,3.5s ¶16509604
NEIC IV 01 02 14 31.3–.72 10.53S 118.64E 46–9 4.3b,3.5s
IDC IV 01 02 14 33.6–4.0 10.38S 118.81E 66–36 4.2,4.0L
DJA IV 01 02 14 33.2–1.6 10S–5.0 119E–2.0 28–20 4.9b,4.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 09 08 48 00.4–1.1 11.26S–.08 117.6E–.10 34 12 2-66
ISCJB IV 09 08 47 58.1–.69 11.32S–.05 117.63E–.06 34 3.6b ¶17200316
DJA IV 09 08 48 07.4–1.3 11S–8.0 117E–8.0 10 6.0b,5.7
IDC IV 09 08 48 08.4–2.1 11.27S 118.78E 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.4km az=143.5.
IDC Error ellipse: s-maj=67.3km s-min=19.6km az=50.0.
IDC IV 17 05 39 27.8–3.5 10.41S 117.39E 0 3.8L,3.6
¶17201284
IDC Error ellipse: s-maj=242.9km s-min=21.4km az=49.0.
IDC IV 27 19 30 26.9–3.2 11.14S 118.04E 0 3.5,3.5b
¶17202255
IDC Error ellipse: s-maj=173.3km s-min=26.2km az=49.0.
DJA V 04 20 42 16.2–1.9 10S–7.0 118E–14 20–41 3.5,3.5
¶602004194
ISC V 10 08 07 30.9–.84 10.57S–.08 118.93E–.09 10 11 4-66
ISCJB V 10 08 07 29.5–.91 10.49S–.07 118.82E–.10 10 3.8b ¶17203192
IDC V 10 08 07 31.3–1.8 10.50S 119.13E 0 3.9,3.8
DJA V 10 08 08 05.4–.90 11S–7.0 114E–5.0 10 4.2,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC V 24 04 51 40.5–1.4 10.61S–.06 117.24E–.04 26–9 4.7b,4.2s 110 2-148
IDC V 24 04 51 36.7–.57 10.45S 117.33E 0 4.6,4.5 ¶16536852
DJA V 24 04 51 38.9–.30 11S–3.0 117E–3.0 10 5.2b,4.8b
ISCJB V 24 04 51 39.1–.32 10.64S–.05 117.24E–.04 33 4.6b,4.1s
NEIC V 24 04 51 39.8–2.0 10.58S 117.20E 21–15 4.8b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=26.2km s-min=13.2km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=26.3.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=5.9km az=45.0.
IDC VI 14 05 56 36.7–1.9 10.56S 118.84E 0 3.9b,3.7
¶17206088
IDC Error ellipse: s-maj=79.4km s-min=23.6km az=56.0.
IDC VI 27 14 18 08.8–1.9 10.18S 118.16E 0 3.8,3.8
¶17207080
IDC Error ellipse: s-maj=73.7km s-min=23.5km az=62.0.
IDC VI 28 04 23 21.5–3.9 11.29S 116.86E 0 3.9,3.8
¶17207112
IDC Error ellipse: s-maj=249.0km s-min=20.7km az=47.0.

(292) South of Sumba.

ISC IV 11 02 55 29.7–1.3 11.2S–.10 119.1E–.20 35 3.7b 8 5-71
IDC IV 11 02 55 26.8–1.5 10.49S 119.73E 0 3.6,3.5 ¶17200520
ISCJB IV 11 02 55 27.4–1.2 11.2S–.20 119.0E–.20 33 3.6b,3.5
ISC Event type ke.

ISCJB Event type ke.

(293) South of Timor.

ISC	**IV**	**06 04 06 32.3–.78**	**11.61S–.08**	**124.7E–.10**	**35**	**4.0b**	**15**	**2-85**
ISCJB	IV	06 04 06 30.8–.57	11.6S–.10	124.6E–.20	33	3.8b		¶17199960
IDC	IV	06 04 06 33.2–2.5	11.53S	124.65E	39–25	4.5L,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.2km s-min=7.0km az=148.5.
IDC Error ellipse: s-maj=85.3km s-min=16.8km az=58.0.

IDC	**V**	**05 20 47 12.9–1.8**	**11.57S**	**123.64E**	**0**	**3.9,3.7**	
							¶17202878

IDC Error ellipse: s-maj=110.5km s-min=27.3km az=59.0.

IDC	**V**	**11 20 34 50.1–1.6**	**12.61S**	**125.21E**	**0**	**3.6,3.4**	
							¶17203431

IDC Error ellipse: s-maj=82.6km s-min=26.4km az=62.0.

IDC	**V**	**30 16 44 57.2–3.2**	**11.86S**	**121.56E**	**0**	**3.3,3.3b**	
							¶17204769

IDC Error ellipse: s-maj=241.3km s-min=33.7km az=48.0.

SEISMIC REGION 25.
Myanmar and Southeast Asia.

(294) Myanmar-India border region.

ISC	**I**	**02 09 11 29.5–.90**	**24.3N–.20**	**94.5E–.10**	**10**	**3.5b**	**11**	**1-61**
ISCJB	I	02 09 11 28.1–.71	24.3N–.10	94.7E–.10	10	3.5b		¶17189205
IDC	I	02 09 11 28.4–1.3	24.30N	94.59E	0	3.6,3.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.5km s-min=7.3km az=40.0.
IDC Error ellipse: s-maj=69.7km s-min=14.5km az=60.0.

ISC	**I**	**02 22 18 27.3–.95**	**25.1N–.10**	**94.6E–.10**	**100**	**3.3b**	**9**	**1-62**
ISCJB	I	02 22 18 25.8–.74	25.11N–.10	94.65E–.08	100	3.3b		¶17189259
IDC	I	02 22 18 28.5–3.7	25.23N	94.92E	106–37	3.5,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=9.2km az=19.9.
IDC Error ellipse: s-maj=52.6km s-min=16.3km az=65.0.

IDC	**I**	**14 18 33 36.4–1.9**	**26.47N**	**95.49E**	**0**	**3.3,3.2b**	
							¶17190203

IDC Error ellipse: s-maj=149.0km s-min=21.9km az=64.0.

ISC	**I**	**18 02 15 49.8–.46**	**24.45N–.04**	**94.66E–.04**	**87–3**	**4.5b**	**247**	**1-160**
ISCJB	I	18 02 15 47.0–.42	24.44N–.03	94.63E–.02	72–4	4.5b		¶15934893
IDC	I	18 02 15 49.9–.58	24.40N	94.78E	88–4	4.4,4.2		
MOS	I	18 02 15 50.4–1.1	24.43N	94.82E	111	4.6b,4.2		
NEIC	I	18 02 15 50.7–.55	24.40N	94.76E	96–5	4.8b,4.2		
BJI	I	18 02 15 51.2	24.67N	94.73E	105	4.9b,4.8b		
BKK	I	18 02 16 09.7–8.0	23N–53	96E–42	10	4.5b,4.4		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC	**I**	**27 22 40 05.2–.33**	**24.29N–.04**	**94.53E–.03**	**87–2**	**4.6b**	**324**	**1-154**
BKK	I	27 22 40 01.3–.40	25N–7.0	95E–9.0	10	5.0,4.9b		¶15977374
ISCJB	I	27 22 40 02.5–.36	24.28N–.02	94.49E–.02	73–3	4.6b,4.9b		
MOS	I	27 22 40 03.6–1.0	24.27N	94.66E	85	4.7b,4.9b		
NEIC	I	27 22 40 05.2–.15	24.27N	94.63E	86	4.7b,4.9b		
IDC	I	27 22 40 05.1–.42	24.29N	94.70E	85–3	4.6,4.3		
BJI	I	27 22 40 07.0	24.56N	94.63E	100	4.8b,4.5b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.7km az=32.6.
MOS Error ellipse: s-maj=10.1km s-min=4.5km az=117.5.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=3.0km az=52.0. Felt at Bokokhat, Kohima and Manipur, India.
IDC Error ellipse: s-maj=12.5km s-min=7.6km az=50.0.

IDC	**I**	**30 15 56 18.4–2.0**	**25.05N**	**95.91E**	**0**	**3.5,3.4**	
							¶17191333

IDC Error ellipse: s-maj=93.1km s-min=24.7km az=67.0.

ISC	**II**	**04 13 53 46.3–.20**	**24.61N–.02**	**94.74E–.02**	**86–1**	**6.4b**	**2964**	**3-166**
BKK	II	04 13 53 31.3–1.3	25N–14	94E–8.0	12–19	7.3,6.4b		¶602064405
GCMT	II	04 13 53 44.2–.10	24.46N	94.68E	104–0	6.3W,6.4b		
MOS	II	04 13 53 44.4–1.0	24.59N	94.83E	86	6.5b,5.9s		
ISCJB	II	04 13 53 44.4–.28	24.63N–.01	94.69E–.01	79–2	6.3b,5.9s		
BJI	II	04 13 53 44.5	24.60N	94.70E	89	6.1b,6.1s		
NEIC	II	04 13 53 46.3–.09	24.62N	94.68E	85	6.4b,6.2W		
NEIC	II	04 13 53 47.0–.00	24.62N	94.74E	89	6.4b,6.2W		
IDC	II	04 13 53 47.0–.82	24.62N	94.85E	87–6	6.3,6.1		

ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s142,c327; s138,c470;Duration: 3s3 Moment tensor: Scale 10^{18} Nm; M_{rr}1.81±.02 $M_{\theta\theta}$-2.68±.02; $M_{\phi\phi}$0.86±.02; $M_{r\theta}$0.05±.02; $M_{\theta\phi}$1.47±.02; $M_{\phi r}$-1.37±.01; Best double couple: NP1:ϕ_s142.00000°,δ62.00000°,λ136.00000°. NP2:ϕ_s256.00000°,δ52.00000°,λ36.00000°. Principal axes: T 2.9190,Plg50.0000°,Azm104.0000° ; N 0.3450,Plg39.0000°,Azm297.0000°; P -3.2640,Plg6.0000°,Azm201.0000° M_o3.09200×10^{18}
MOS Error ellipse: s-maj=5.9km s-min=3.0km az=126.9.
ISCJB Event type de. Error ellipse: s-maj=2.4km s-min=1.5km az=32.7.
NEIC Event type de. Error ellipse: s-maj=3.4km s-min=2.4km az=218.0. One person killed and several buildings and bridges damaged in the Monywa area, Myanmar. Felt strongly in the Maungdaw area. Also felt at Mandalay and Taunggyi. Slight damage occurred in Assam, Manipur and Nagaland, India. Felt [V] at Manipur and Shillong; [IV] at Agartala, Guwahati and Tezpur; [III] at Aizawl and Shiliguri; [II] at Calcutta. Felt throughout northeastern India. Felt [V] at Sylhet and [IV] at Chittagong and Dhaka, Bangladesh. Felt in much of Bangladesh. Also felt in Bhutan. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s77 Moment tensor: Scale 10^{18} Nm; M_{rr}1.69 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$-0.02 $M_{r\theta}$0.14 $M_{\theta\phi}$0.56 $M_{\phi r}$-1.26 Best double couple: NP1: ϕ_s134.00000°,δ60.00000°,λ121.00000°. NP2:ϕ_s264.00000°,δ42.00000°,λ49.00000°. Principal axes: T 2.3600,Plg62.0000°,Azm94.0000°; N -0.4300,Plg26.0000°,Azm298.0000° ; P -1.9200,Plg10.0000°,Azm203.0000° M_o2.20000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s128.00000°,δ61.00000°,λ118.00000°. NP2: ϕ_s260.00000°,δ40.00000°,λ50.00000°. Principal axes: T Plg63.0000°,Azm85.0000° ; N Plg0.0000°,Azm0.0000°; P Plg11.0000°,Azm198.0000°
NEIC Event type se. Moment Tensor Solution. s51 Moment tensor: Scale 10^{18}Nm; M_{rr}1.88 $M_{\theta\theta}$-2.17 $M_{\phi\phi}$0.29 $M_{r\theta}$0.27 $M_{\theta\phi}$0.66 $M_{\phi r}$-0.97 Best double couple: NP1:ϕ_s126.00000° ,δ56.00000°,λ119.00000°. NP2:ϕ_s261.00000°,δ43.00000°,λ53.00000°. Principal axes: T 2.3400,Plg65.0000°,Azm91.0000°; N 0.0600,Plg24.0000°,Azm289.0000° ; P -2.4000,Plg7.0000°,Azm196.0000° M_o2.40000×10^{18}
IDC Error ellipse: s-maj=9.0km s-min=7.8km az=47.0.

ISC	**II**	**04 14 06 40.2–.99**	**24.6N–.20**	**94.7E–.20**	**100**	**4.3b**	**10**	**6-85**
ISCJB	II	04 14 06 38.6–.73	24.5N–.10	94.8E–.20	100	4.1b		¶16328700
NEIC	II	04 14 06 38.2–2.2	24.53N	94.81E	78–20	4.1b		
IDC	II	04 14 06 43.1–10	24.56N	94.86E	123–93	4.2,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=30.3km s-min=13.0km az=151.7.
NEIC Event type se. Error ellipse: s-maj=27.2km s-min=14.3km az=65.0.
IDC Error ellipse: s-maj=32.7km s-min=15.9km az=62.0.

ISC	**II**	**04 16 37 39.9–1.3**	**24.3N–.20**	**94.4E–.20**	**10**	**3.5b**	**6**	**3-61**
ISCJB	II	04 16 37 37.9–1.1	24.2N–.20	94.3E–.20	10	3.4b		¶17191672
IDC	II	04 16 37 38.8–2.0	24.33N	94.49E	0	3.6,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.8km s-min=14.7km az=40.8.
IDC Error ellipse: s-maj=88.3km s-min=23.2km az=70.0.

IDC	**II**	**04 16 53 53.0–4.3**	**24.10N**	**94.22E**	**0**	**3.7,3.4**	
							¶17191676

IDC Error ellipse: s-maj=372.4km s-min=27.1km az=60.0.

IDC	**II**	**04 17 06 23.6–1.9**	**24.35N**	**94.49E**	**0**	**3.8,3.7**	
							¶17191679

IDC Error ellipse: s-maj=84.3km s-min=22.2km az=69.0.

ISC	**II**	**04 20 02 01.8–.68**	**24.47N–.10**	**94.38E–.08**	**82**	**3.6b**	**45**	**3-90**
ISCJB	II	04 20 02 00.4–.52	24.44N–.08	94.33E–.04	82	3.8b		¶16328695
IDC	II	04 20 02 03.7–3.3	24.51N	94.74E	99–31	3.9,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=4.8km az=18.2.
IDC Error ellipse: s-maj=27.2km s-min=12.5km az=62.0.

ISC	**II**	**08 14 41 21.0–1.5**	**24.1N–.20**	**93.5E–.20**	**10**	**3.5b**	**7**	**2-62**
ISCJB	II	08 14 41 18.9–1.2	24.1N–.20	93.5E–.20	10	3.3b		¶17191900
IDC	II	08 14 41 20.0–2.0	24.18N	93.69E	0	3.5,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.5km s-min=11.3km az=137.5.
IDC Error ellipse: s-maj=93.0km s-min=21.4km az=67.0.

ISC	**II**	**17 17 20 27.7–.94**	**23.1N–.30**	**94.0E–.30**	**10**	**3.8b**	**15**	**3-125**
ISCJB	II	17 17 20 25.7–.81	23.1N–.20	94.1E–.30	10	3.7b		¶17192436
IDC	II	17 17 20 26.4–.98	23.07N	94.02E	0	3.8,3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.9km s-min=8.4km az=140.8.
IDC Error ellipse: s-maj=69.9km s-min=15.8km az=54.0.

ISC	**II**	**22 22 57 26.7–.62**	**24.35N–.06**	**94.33E–.06**	**84–6**	**4.0b**	**84**	**3-124**
ISCJB	II	22 22 57 25.4–.50	24.29N–.05	94.31E–.04	91–6	4.0b		¶16301888
NEIC	II	22 22 57 27.2–.64	24.49N	94.75E	87–6	4.0b		
IDC	II	22 22 57 27.3–.70	24.47N	94.73E	87–6	4.1,3.9		
BKK	II	22 22 57 43.9–8.3	23N–57	96E–42	0	4.3b,4.1b		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.

ISC	**II**	**23 21 38 36.9–.63**	**23.6N–.10**	**94.1E–.10**	**73**	**3.7b**	**42**	**3-125**
ISCJB	II	23 21 38 34.9–.32	23.49N–.08	94.02E–.08	73	3.8b		¶16301896
IDC	II	23 21 38 38.9–3.1	23.57N	94.33E	89–28	3.9,3.8		
BKK	II	23 21 39 13.1–2.3	22N–15	96E–15	10	4.1b,3.8b		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**06 00 18 22.9–.42**	**23.85N–.05**	**93.79E–.04**	**50**	**4.3b**	**135**	**2-144**
ISCJB	III	06 00 18 20.9–.28	23.85N–.04	93.83E–.03	50	4.4b,3.3s		¶16196697
NEIC	III	06 00 18 24.5–.67	23.95N	93.99E	63–6	4.4b,3.3s		
BJI	III	06 00 18 25.1	24.18N	93.96E	70	4.6b,4.4b		
MOS	III	06 00 18 25.1–.99	23.94N	94.04E	89	4.5b,4.4b		
IDC	III	06 00 18 26.8–3.1	23.94N	94.02E	86–29	4.3,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.5km az=14.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=4.2km az=56.0.
MOS Error ellipse: s-maj=14.9km s-min=6.1km az=113.1.
IDC Error ellipse: s-maj=22.4km s-min=11.2km az=56.0.

ISC	**III**	**06 17 47 04.1–1.1**	**24.2N–.20**	**94.0E–.20**	**35**	**3.2b**	**6**	**2-61**
ISCJB	III	06 17 47 01.8–.91	24.1N–.20	94.1E–.20	35	3.1b		¶17193368
IDC	III	06 17 47 04.2–6.7	24.15N	94.09E	35–51	3.0,3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.6km s-min=9.6km az=43.1.
IDC Error ellipse: s-maj=68.2km s-min=21.2km az=68.0.

ISC	**III**	**12 10 46 00.3–.77**	**24.57N–.09**	**94.56E–.08**	**82**	**4.2b**	**31**	**6-66**
ISCJB	III	12 10 45 58.5–.51	24.46N–.09	94.49E–.06	82	4.1b		¶16404901
NEIC	III	12 10 46 00.9–.78	24.59N	94.72E	88–8	4.4b		
IDC	III	12 10 46 01.1–3.8	24.60N	94.72E	88–36	4.1,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=4.4km az=27.4.
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=6.5km az=57.0.
IDC Error ellipse: s-maj=46.5km s-min=14.4km az=57.0.

IDC	**III**	**23 22 55 56.1–4.3**	**24.43N**	**94.67E**	**92–42**	**3.4,3.3**	
							¶17198256

IDC Error ellipse: s-maj=166.0km s-min=20.9km az=62.0.

ISC	**III**	**31 08 20 42.0–2.0**	**23.1N–.70**	**93.8E–.90**	**100**	**3.5b**	**6**	**3-61**
IDC	III	31 08 20 29.7–5.0	22.90N	93.58E	0	3.8,3.7		¶17199274
ISCJB	III	31 08 20 40.0–1.6	23.1N–.50	93.8E–.80	100	3.5b,3.7		

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**01 20 12 32.1–1.1**	**23.6N–.40**	**94.7E–.40**	**99**		**5**	**3-60**
ISCJB	IV	01 20 12 30.3–1.1	23.5N–.30	94.6E–.40	99	3.1b		¶17199458
IDC	IV	01 20 12 32.9–4.2	23.49N	94.64E	113–41	3.1,2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=66.1km s-min=10.6km az=44.6.
IDC Error ellipse: s-maj=99.6km s-min=24.3km az=61.0.

ISC	**IV**	**06 05 59 30.2–.88**	**22.5N–.10**	**93.60E–.09**	**59**	**3.8b**	**16**	**3-60**
ISCJB	IV	06 05 59 27.3–.63	22.5N–.10	93.58E–.09	59	3.6b		¶16455865
IDC	IV	06 05 59 29.3–5.2	22.54N	93.74E	47–45	3.7,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=4.3km az=37.2.
IDC Error ellipse: s-maj=81.9km s-min=21.0km az=68.0.

IDC	**IV**	**06 16 03 26.0–1.5**	**27.82N**	**97.06E**	**0**	**3.5,3.3**	
							¶17200025

IDC Error ellipse: s-maj=70.8km s-min=22.0km az=64.0.

ISC	**IV**	**07 15 53 14.4–1.1**	**23.1N–.20**	**93.9E–.10**	**100**	**3.6b**	**35**	**3-65**
IDC	IV	07 15 53 17.6–1.3	23.74N	94.83E	120–8	3.8,3.5		¶16455880

ISC Event type ke.
IDC Error ellipse: s-maj=48.9km s-min=15.9km az=59.0.

ISC	**IV**	**09 16 38 42.2–.67**	**24.2N–.10**	**94.46E–.09**	**96**	**3.8b**	**39**	**3-81**
ISCJB	IV	09 16 38 40.2–.56	24.17N–.10	94.48E–.06	96	3.8b		¶16455897
IDC	IV	09 16 38 43.9–.80	24.24N	94.82E	115–6	3.9,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=5.1km az=22.4.
IDC Error ellipse: s-maj=31.4km s-min=12.1km az=57.0.

ISC	**IV**	**15 04 28 32.3–.76**	**24.5N–.10**	**94.8E–.10**	**100**	**3.9b**	**23**	**7-87**
ISCJB	IV	15 04 28 30.4–.54	24.42N–.09	94.75E–.07	100	3.6b		¶16706951
IDC	IV	15 04 28 33.3–3.0	24.52N	95.00E	109–29	3.8,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=4.9km az=32.8.
IDC Error ellipse: s-maj=42.6km s-min=13.6km az=61.0.

IDC	**IV**	**15 23 59 50.4–6.4**	**23.78N**	**93.55E**	**73–47**	**3.5,3.4**	
							¶17201180

IDC Error ellipse: s-maj=212.2km s-min=17.8km az=59.0.

ISC	**IV**	**18 09 33 30.1–.49**	**26.14N–.07**	**95.06E–.06**	**71**	**4.1b**	**53**	**3-89**
ISCJB	IV	18 09 33 28.4–.35	26.10N–.05	95.12E–.05	71	4.0b		¶16505423
IDC	IV	18 09 33 30.4–.73	26.13N	95.34E	74–7	4.1,3.9		
NEIC	IV	18 09 33 31.6–.63	26.12N	95.28E	85–7	4.1b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.4km az=30.6.
IDC Error ellipse: s-maj=16.9km s-min=10.5km az=49.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=223.0.

ISC	**IV**	**19 03 34 05.9–.43**	**24.51N–.04**	**94.44E–.04**	**72–4**	**4.3b**	**173**	**3-154**
BKK	IV	19 03 33 57.1–1.5	25N–21	94E–26	0	5.3,5.0		¶16446642
MOS	IV	19 03 34 04.9–1.0	24.47N	94.54E	80	4.5b,5.0		
ISCJB	IV	19 03 34 05.7–.56	24.46N–.03	94.54E–.03	87–6	4.2b,5.0		
IDC	IV	19 03 34 05.3–.63	24.47N	94.57E	67–5	4.2,4.0		
BJI	IV	19 03 34 06.7	24.64N	94.48E	77	4.5b,4.4b		
NEIC	IV	19 03 34 07.1–.52	24.49N	94.56E	85–5	4.5b,4.4b		

ISC Event type se.
MOS Error ellipse: s-maj=13.6km s-min=6.1km az=105.4.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=7.0.
IDC Error ellipse: s-maj=18.7km s-min=10.4km az=60.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.9km az=60.0.

ISC	**IV**	**22 00 53 39.4–1.2**	**24.5N–.20**	**94.7E–.40**	**100**	**3.8b**	**10**	**7-90**
ISCJB	IV	22 00 53 37.5–1.0	24.5N–.20	94.6E–.30	100	3.7b		¶17201764
IDC	IV	22 00 53 39.9–3.7	24.51N	94.73E	103–35	3.7,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=44.0km s-min=13.0km az=153.5.
IDC Error ellipse: s-maj=44.1km s-min=16.9km az=63.0.

ISC	**IV**	**24 18 46 42.0–.67**	**22.8N–.10**	**93.8E–.10**	**105**	**3.6b**	**31**	**3-126**
ISCJB	IV	24 18 46 40.9–.57	22.9N–.10	93.83E–.08	105	3.7b		¶16707895
IDC	IV	24 18 46 42.7–2.9	23.17N	94.41E	94–26	3.8,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=5.0km az=33.1.
IDC Error ellipse: s-maj=41.9km s-min=11.3km az=57.0.

ISC	**IV**	**29 02 39 17.7–.47**	**25.38N–.06**	**94.87E–.06**	**71–3**	**4.3b**	**143**	**3-148**
BJI	IV	29 02 39 16.5	25.51N	94.93E	63	4.5b,4.5b		¶16483652
ISCJB	IV	29 02 39 16.5–.72	25.39N–.06	94.86E–.05	74–8	4.2b,4.5b		
MOS	IV	29 02 39 18.3–1.1	25.41N	95.03E	94	4.4b,4.5b		
NEIC	IV	29 02 39 21.0–.69	25.36N	95.10E	105–7	4.3b,4.5b		
IDC	IV	29 02 39 21.6–.55	25.40N	95.11E	108–4	4.2,4.0		
BKK	IV	29 02 39 54.8–2.1	22N–32	95E–22	287–27	3.9,3.6		

ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 29 17 41 30.6–1.3 23.9N–.30 94.9E–.20 10 3.5b 10 3-61
ISCJB IV 29 17 41 28.3–.99 23.8N–.30 95.0E–.20 10 3.4b **¶17202400**
IDC IV 29 17 41 29.8–4.3 24.35N 95.77E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=42.7km s-min=11.9km az=33.1.
IDC Error ellipse: s-maj=439.0km s-min=27.5km az=59.0.
ISC IV 29 21 01 57.2–1.2 23.6N–.20 94.7E–.20 99 3.9b 12 3-60
IDC IV 29 21 01 50.8–1.3 25.56N 98.59E 0 4.7s,4.7 **¶17202415**
ISCJB IV 29 21 01 55.5–.91 23.5N–.20 94.7E–.20 99 3.6b,4.7
ISC Event type ke.
ISCJB Event type ke.
ISC V 06 07 15 24.6–1.2 23.3N–.20 93.8E–.10 73 3.6b 22 3-61
IDC V 06 07 15 16.4–1.5 23.37N 94.12E 0 3.8,3.6 **¶16708995**
ISCJB V 06 07 15 23.4–.84 23.3N–.10 93.71E–.09 73 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 07 01 47 16.4–.38 23.09N–.03 94.87E–.03 172–3 4.6b 386 4-155
ISCJB V 07 01 47 15.0–.31 23.04N–.02 94.91E–.02 174–3 4.6b **¶16498401**
MOS V 07 01 47 15.2–.81 23.11N 95.07E 179 4.7b
NEIC V 07 01 47 15.7–.56 23.08N 94.97E 165–5 4.7b
IDC V 07 01 47 16.6–.64 23.09N 95.03E 174–5 4.6,4.3
BKK V 07 01 47 31.0–5.7 22N–36 96E–33 79–75 4.4,4.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 23 10 33 21.6–5.4 23.57N 93.94E 0 3.8,3.8s
¶17204294
IDC Error ellipse: s-maj=168.6km s-min=99.4km az=47.0.
ISC V 30 19 17 35.6–.80 24.1N–.10 94.14E–.09 100 3.6b 26 6-66
ISCJB V 30 19 17 33.7–.61 24.00N–.10 94.07E–.06 100 3.6b **¶16702330**
NEIC V 30 19 17 34.6–1.0 24.22N 94.51E 82–10 4.0b
IDC V 30 19 17 35.9–3.6 24.20N 94.55E 96–36 4.0s,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=5.6km az=26.0.
NEIC Event type se. Error ellipse: s-maj=25.0km s-min=7.6km az=57.0.
IDC Error ellipse: s-maj=37.5km s-min=14.1km az=57.0.
ISC V 31 18 45 14.8–.52 24.39N–.06 94.40E–.05 82 4.1b 86 3-85
IDC V 31 18 45 05.9–.66 24.54N 94.61E 0 4.0,3.9 **¶16552784**
ISCJB V 31 18 45 12.8–.32 24.33N–.05 94.33E–.03 82 4.1b,3.9
NEIC V 31 18 45 12.9–.67 24.54N 94.55E 54–7 4.3b,3.9
BJI V 31 18 45 16.9 25.08N 94.65E 70 4.3b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=12.8km az=56.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=3.6km az=19.8.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.0km az=59.0.
ISC VI 13 13 18 11.8–1.4 24.2N–.40 94.3E–.30 96 3.8b 5 3-66
IDC VI 13 13 17 59.9–4.7 24.00N 94.01E 0 3.8s,3.8 **¶17206052**
ISCJB VI 13 13 18 10.0–1.1 24.2N–.30 94.3E–.30 96 3.5b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 21 23 07 20.4–4.5 23.82N 94.75E 0 3.8,3.5
¶17206708
IDC Error ellipse: s-maj=394.0km s-min=27.1km az=60.0.
ISC VI 23 11 06 38.7–.54 24.66N–.08 94.79E–.07 100 4.0b 49 3-87
BKK VI 23 11 06 11.5–.60 24N–9.0 91E–8.0 10 5.3,4.8b **¶17206811**
ISCJB VI 23 11 06 37.6–.37 24.70N–.06 94.85E–.05 100 4.0b,4.8b
IDC VI 23 11 06 40.8–2.5 24.68N 95.18E 118–22 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=3.4km az=32.5.
IDC Error ellipse: s-maj=26.4km s-min=10.5km az=61.0.
ISC VI 25 23 40 39.8–.41 23.72N–.04 94.05E–.04 76–3 4.5b 200 3-125
ISCJB VI 25 23 40 37.1–.44 23.76N–.03 94.07E–.03 54–5 4.4b,3.4s **¶16682697**
MOS VI 25 23 40 37.7–.96 23.77N 94.35E 65 4.8b,3.4s
IDC VI 25 23 40 40.0–.48 23.72N 94.27E 74–3 4.2,4.0
NEIC VI 25 23 40 40.9–.61 23.73N 94.26E 81–6 4.7b,4.0
BJI VI 25 23 40 41.5 24.16N 94.20E 69 4.8b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.6km az=40.6.
MOS Error ellipse: s-maj=12.6km s-min=5.0km az=119.0.
IDC Error ellipse: s-maj=16.7km s-min=9.1km az=53.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.1km az=61.0.
ISC VI 26 13 49 18.6–.64 23.3N–.10 94.2E–.10 100 3.7b 37 3-150
ISCJB VI 26 13 49 17.9–.57 23.3N–.10 94.12E–.08 100 3.8b **¶17206997**
IDC VI 26 13 49 17.3–.80 23.50N 94.40E 75–6 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=5.1km az=31.3.
IDC Error ellipse: s-maj=55.0km s-min=11.8km az=57.0.
ISC VI 29 18 20 33.3–1.0 25.6N–.10 95.31E–.10 150 3.6b 17 8-62
ISCJB VI 29 18 20 32.2–.71 25.6N–.10 95.35E–.07 150 3.5b **¶17207211**
IDC VI 29 18 20 33.0–3.7 25.69N 95.50E 139–36 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=6.3km az=21.2.
IDC Error ellipse: s-maj=72.9km s-min=19.0km az=70.0.

(295) Myanmar-Bangladesh border region.

IDC VI 23 13 55 10.2–2.5 21.55N 92.44E 0 3.4,3.4L
¶17206819
IDC Error ellipse: s-maj=108.8km s-min=29.5km az=56.0.

(296) Myanmar.

ISC I 03 10 53 47.6–.83 18.7N–.10 94.71E–.10 35 3.6b,3.1s 25 4-96
ISCJB I 03 10 53 45.6–.61 18.75N–.08 94.80E–.07 33 3.6b,3.2s **¶16021242**
IDC I 03 10 53 49.9–1.1 18.66N 94.93E 59–8 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=5.8km az=38.0.
IDC Error ellipse: s-maj=21.9km s-min=11.7km az=35.0.
ISC I 03 11 14 21.0–1.2 21.8N–.20 94.7E–.20 100 3.7b 18 5-68
IDC I 03 11 14 07.7–1.3 21.34N 93.88E 0 3.8,3.7b **¶16150383**
ISCJB I 03 11 14 20.2–.98 21.9N–.20 94.7E–.10 100 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC I 05 18 22 47.8–1.3 20.15N–.10 96.0E–.10 10 3.4b 22 3-83
BKK I 05 18 22 43.2–5.0 20N–25 95E–36 106–23 4.6,4.4b **¶16395017**
ISCJB I 05 18 22 46.0–.82 20.08N–.09 95.8E–.10 10 3.3b,4.4b
IDC I 05 18 22 47.3–1.6 20.20N 95.99E 0 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=8.3km az=139.9.
IDC Error ellipse: s-maj=60.3km s-min=14.8km az=49.0.
ISC I 30 14 23 16.8–.86 25.5N–.10 96.6E–.10 25 3.6b,2.6s 12 4-89
IDC I 30 14 23 13.0–.86 25.51N 96.77E 0 3.8L,3.7 **¶17191330**
ISCJB I 30 14 23 14.6–.64 25.41N–.09 96.5E–.10 25 3.6b,2.7s
ISC Event type ke.
ISCJB Event type ke.
IDC II 02 23 46 00.3–4.9 23.81N 95.72E 0 3.6,3.5
¶17191565
IDC Error ellipse: s-maj=486.7km s-min=24.2km az=59.0.
ISC II 06 00 26 22.1–1.2 18.47N–.06 96.48E–.08 10 3.3b 21 1-56
BKK II 06 00 25 51.2–.90 20N–6.0 94E–7.0 10 5.2,5.2b **¶17191765**
ISCJB II 06 00 26 19.1–1.1 18.48N–.07 96.3E–.10 10 3.2b,5.2b
IDC II 06 00 26 20.2–1.6 18.52N 96.34E 0 3.3,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=10.4km az=168.1.
IDC Error ellipse: s-maj=25.2km s-min=17.5km az=31.0.
ISC II 13 16 42 11.3–.41 22.78N–.04 94.46E–.04 106–3 4.2b 177 4-154
ISCJB II 13 16 42 09.1–.37 22.83N–.03 94.48E–.03 96–4 4.1b **¶16022466**
NEIC II 13 16 42 10.9–.25 22.75N 94.55E 100 4.4b
MOS II 13 16 42 10.6–1.3 22.75N 94.50E 111 4.2b
BJI II 13 16 42 11.5 22.99N 94.60E 102 4.8b,4.4b
IDC II 13 16 42 11.4–.53 22.75N 94.51E 105–3 4.2,3.9
BKK II 13 16 42 44.7–4.0 21N–26 97E–22 10 5.0b,4.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 14 18 16 06.5–3.6 25.36N 96.12E 204–47 3.2,2.8
¶17192260
IDC Error ellipse: s-maj=133.9km s-min=21.8km az=61.0.
ISC II 14 23 44 34.2–.66 26.06N–.04 96.20E–.04 64–6 4.6b 238 4-162
IDC II 14 23 44 25.8–.51 26.06N 96.35E 0 4.4,4.3b **¶16024890**
MOS II 14 23 44 30.8–.95 26.05N 96.31E 50 4.9b,4.3b
ISCJB II 14 23 44 32.1–.63 26.03N–.03 96.25E–.03 62–6 4.6b,4.3b
NEIC II 14 23 44 33.5–.68 26.11N 96.33E 59–6 4.8b,4.3b
BJI II 14 23 44 34.1 26.37N 96.27E 63 4.8b,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=18.0km s-min=12.2km az=51.0.
MOS Error ellipse: s-maj=11.3km s-min=4.8km az=121.5.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.3km az=27.1.
NEIC Event type fe. Error ellipse: s-maj=6.6km s-min=3.9km az=60.0. Felt at Dibrugarh, Khonsa and Margherita, India.
ISC II 21 12 44 19.0–.90 22.6N–.30 94.5E–.40 106 3.8b 18 4-67
ISCJB II 21 12 44 16.8–.70 22.5N–.20 94.4E–.30 106 3.8b **¶17192636**
IDC II 21 12 44 20.3–3.0 22.52N 94.55E 122–29 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=47.5km s-min=6.5km az=139.1.
IDC Error ellipse: s-maj=58.9km s-min=12.1km az=54.0.
ISC II 24 08 28 14.5–.40 19.53N–.05 95.04E–.04 85–3 4.5b 166 3-148
BJI II 24 08 27 57.8 18.37N 94.78E 30 4.7b,4.6b **¶16154497**
ISCJB II 24 08 28 11.9–.39 19.51N–.03 94.99E–.03 77–4 4.4b,4.6b
MOS II 24 08 28 13.4–.81 19.58N 95.11E 90 4.6b,4.6b
NEIC II 24 08 28 14.6–.25 19.55N 95.12E 84 4.7b,4.6b
BKK II 24 08 28 14.2–3.2 19N–15 95E–24 10 5.2b,4.9
IDC II 24 08 28 14.8–.47 19.57N 95.17E 85–3 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=31.8.
MOS Error ellipse: s-maj=11.8km s-min=6.7km az=106.2.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=5.5km az=47.0.
IDC Error ellipse: s-maj=17.4km s-min=9.3km az=51.0.
ISC II 28 00 55 03.8–.45 19.90N–.04 95.23E–.04 110–4 4.1b 130 3-128
BJI II 28 00 55 00.1 19.65N 95.12E 109 4.6b,4.4b **¶16166749**
ISCJB II 28 00 55 02.7–.35 19.92N–.03 95.25E–.03 117–5 4.2b,4.4b
IDC II 28 00 55 03.7–.66 19.89N 95.30E 112–4 4.2,4.0
BKK II 28 00 55 03.7–4.7 20N–20 95E–36 96–90 4.3b,4.3
NEIC II 28 00 55 04.7–.61 19.98N 95.33E 117–6 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=3.9km az=8.6.
IDC Error ellipse: s-maj=17.6km s-min=11.7km az=49.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.3km az=62.0.
ISC III 08 17 48 31.7–.53 22.90N–.06 94.19E–.06 93–5 4.2b 96 3-125
BKK III 08 17 48 15.0–3.1 24N–22 93E–22 0 4.7,4.6b **¶16269128**
ISCJB III 08 17 48 29.0–.43 22.86N–.04 94.08E–.04 80–5 4.2b,4.6b
BJI III 08 17 48 30.3 23.00N 94.13E 82 4.7b,4.4b
IDC III 08 17 48 31.5–.88 22.97N 94.38E 85–7 4.1,3.9
NEIC III 08 17 48 31.8–.63 22.95N 94.33E 89–6 4.3b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=3.5km az=42.5.
IDC Error ellipse: s-maj=20.9km s-min=11.4km az=50.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=4.2km az=60.0.
ISC III 20 17 31 32.2–.39 22.83N–.05 94.42E–.04 68–3 4.5b 145 4-87
NEIC III 20 17 31 31.9–.97 22.80N 94.57E 74–10 4.7b **¶16462013**
ISCJB III 20 17 31 31.6–.43 22.88N–.03 94.44E–.03 77–5 4.3b
IDC III 20 17 31 34.9–.59 22.75N 94.58E 100–5 4.3,4.1
BJI III 20 17 31 34.8 22.92N 94.54E 91 5.0b,4.5b
BKK III 20 17 31 43.3–.60 22N–7.0 95E–7.0 10 4.4,4.4b
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 24 13 55 13.4–.27 20.63N–.02 99.92E–.02 13–1 7.2s,6.1b 1716 2-168
IDC III 24 13 55 11.0–.33 20.71N 99.92E 0 7.0,7.0s **¶16357310**
ISCJB III 24 13 55 11.6–.07 20.71N–.01 99.89E–.01 14 7.2s,6.0b
GCMT III 24 13 55 11.9–.10 20.62N 100.02E 13–0 6.8W,6.0b
BJI III 24 13 55 12.3 20.70N 99.85E 20 7.6s,7.4
NEIC III 24 13 55 12.0–.11 20.69N 99.82E 8 7.2L,7.1s
NEIC III 24 13 55 12.0–.00 20.50N 100.15E 15 7.2L,7.1s
MOS III 24 13 55 14.5–.97 20.65N 99.94E 12 7.1s,6.3b
BKK III 24 13 55 15.1–.30 21N–3.0 100E–3.0 10 7.0,6.9
PLV III 24 13 55 15.9–2.1 20.62N 100.21E 17–15 6.6W,6.4L
NEIC III 24 13 55 30.8–.00 20.36N 99.86E 10 6.6W,6.4L
ISC Event type de.
IDC Error ellipse: s-maj=9.0km s-min=8.3km az=177.0.
ISCJB Event type de. Error ellipse: s-maj=1.8km s-min=1.5km az=29.6.
GCMT nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=125s. Moment Tensor Solution. s142,c369; s141,c659;Duration: 6s4 Moment tensor: Scale 10^{19} Nm; M_{rr}0.11±.01 $M_{\theta\theta}$-1.50±.01; $M_{\phi\phi}$1.39±.01; $M_{r\theta}$0.34±.02; $M_{\theta\phi}$1.67±.01; $M_{\phi r}$0.32±.03; Best double couple: NP1:ϕ_s70.00000°,δ85.00000°,λ11.00000°. NP2:ϕ_s339.00000° ,δ79.00000°,λ175.00000°. Principal axes: T 2.2410,Plg11.0000°,Azm295.0000° ; N 0.0380,Plg78.0000°,Azm94.0000°; P -2.2760,Plg4.0000°,Azm204.0000° M_o2.25800×10^{19}
NEIC Event type de. Error ellipse: s-maj=3.5km s-min=2.8km az=55.0. At least 74 people killed, 111 injured, 413 buildings damaged and one bridge collapsed in Shan. Landslides occurred in the area. Felt [VI] at Kengtung and [II] at Rangoon. Also felt at Mandalay and Taunggyi. One person killed in northern Thailand. Felt [VI] at Mae Sai; [IV] at Amnat Charoen, Chiang Rai, Lamphun, Mae Chan, Mae Rim, Nan, Nonthaburi, Phayao and Pong; [III] at Bangkok, Chiang Mai, Hang Dong, Lampang, Mae Hong Son, San Kamphaeng, San Pa Tong and San Sai. Twelve people injured, 9,496 people displaced and 9,691 houses, 136 reservoirs and 35 roads damaged in Yunnan, China. Felt [IV] at Jinghong, [III] at Nanning and [II] at Kunming. Felt [IV] at Louang Namtha and [II] at Louangphabang and Vientiane, Laos. Felt [III] at Hanoi, Vietnam. Also felt at Ho Chi Minh City. Felt widely in Laos, Myanmar, Thailand, Vietnam and southern China. Also felt at Phnom Penh, Cambodia and in Singapore. Felt at Dhaka, Bangladesh and at Aizawl, India. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. M_o2.90000×10^{19} Moment Tensor Solution. Best double couple: NP1:ϕ_s246.00000° ,δ81.00000°,λ-3.00000°. NP2:ϕ_s336.00000°,δ87.00000°,λ-17.00000°. Principal axes: T 1.3400,Plg4.0000°,Azm111.0000°; N -0.0300,Plg81.0000°,Azm354.0000° ; P -1.3100,Plg8.0000°,Azm201.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s244.00000°,δ80.00000°,λ-3.00000°. NP2: ϕ_s335.00000°,δ87.00000°,λ-170.00000°. Principal axes: T Plg5.0000°,Azm109.0000° ; N Plg0.0000°,Azm0.0000°; P Plg9.0000°,Azm200.0000°
NEIC Event type se. Moment Tensor Solution. s59 Moment tensor: Scale 10^{19}Nm; M_{rr}0.08 $M_{\theta\theta}$-1.34 $M_{\phi\phi}$1.26 $M_{r\theta}$-0.48 $M_{\theta\phi}$1.42 $M_{\theta r}$1.55 Best double couple: NP1:ϕ_s338.00000° ,δ88.00000°,λ140.00000°. NP2:ϕ_s70.00000°,δ50.00000°,λ3.00000°. Principal axes: T 2.5500,Plg28.0000°,Azm286.0000°; N -0.0800,Plg49.0000°,Azm155.0000° ; P -2.4700,Plg25.0000°,Azm31.0000° M_o2.50000×10^{19}
MOS Error ellipse: s-maj=6.1km s-min=3.8km az=109.8. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s256.00000°,δ81.00000°,λ-14.00000°. NP2: ϕ_s348.00000°,δ76.00000°,λ-171.00000°. Principal axes: T Plg4.0000°,Azm303.0000° ; N Plg74.0000°,Azm45.0000°; P Plg16.0000°,Azm212.0000° M_o1.70000×10^{19}
PLV Error ellipse: s-maj=12.1km s-min=19.2km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s69 Moment tensor: Scale 10^{19}Nm; M_{rr}-0.07 $M_{\theta\theta}$-1.30 $M_{\phi\phi}$1.37 $M_{r\theta}$0.11 $M_{\theta\phi}$1.59 $M_{\theta r}$-0.13 Best double couple: NP1:ϕ_s340.00000° ,δ88.00000°,λ-176.00000°. NP2:ϕ_s250.00000°,δ86.00000°,λ-2.00000°. Principal axes: T 2.1100,Plg2.0000°,Azm115.0000°; N -0.0600,Plg85.0000°,Azm1.0000° ; P -2.0500,Plg4.0000°,Azm205.0000° M_o2.10000×10^{19}
ISC III 24 14 06 11.1–.89 20.7N–.10 100.0E–.20 10 3.9b 10 2-55
ISCJB III 24 14 06 09.3–.69 20.74N–.09 100.0E–.20 10 4.0b **¶17198365**
IDC III 24 14 06 09.6–.94 20.70N 99.99E 0 5.0L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=12.5km az=176.9.
IDC Error ellipse: s-maj=29.6km s-min=16.9km az=72.0.
ISC III 24 14 06 38.4–.00 20.7N–.10 99.7E–.20 10 3.8b 8 2-55
IDC III 24 14 06 37.4–.94 20.83N 99.85E 0 5.7L,4.0 **¶17198368**

ISC Event type ke.
IDC Error ellipse: s-maj=33.0km s-min=17.0km az=66.0.
ISC III 24 14 23 53.1–.30 20.59N–.03 99.90E–.03 10 4.7b 194 2-158
BJI III 24 14 23 49.0 20.28N 99.75E 10 5.2L,5.0b ¶16357312
IDC III 24 14 23 51.5–.43 20.70N 99.94E 0 4.8L,4.5
ISCJB III 24 14 23 51.3–.16 20.66N–.02 99.88E–.02 10 4.6b,4.5
NEIC III 24 14 23 53.0–1.4 20.66N 99.93E 11–9 4.8b,4.5
BKK III 24 14 23 54.5–1.4 20N–13 100E–4.0 10 5.2b,5.2
MOS III 24 14 23 54.5–.96 20.67N 99.95E 33 5.0b,5.2
PLV III 24 14 23 55.9–1.9 20.62N 100.15E 8–11 4.6L,5.2
ISC Event type se.
IDC Error ellipse: s-maj=15.4km s-min=10.3km az=76.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.8km az=177.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=83.0.
MOS Error ellipse: s-maj=9.8km s-min=5.4km az=104.1.
PLV Error ellipse: s-maj=12.8km s-min=14.0km az=-1.0.
IDC III 24 14 42 05.3–1.1 20.63N 99.82E 0 4.0L,3.5
¶17198375
IDC Error ellipse: s-maj=20.5km s-min=12.6km az=96.0.
ISC III 24 15 18 35.5–1.3 20.65N–.08 99.9E–.20 10 3.7b 11 2-39
BKK III 24 15 18 26.7–1.4 21N–13 100E–14 2–12 4.7,4.7 ¶16480656
IDC III 24 15 18 32.2–2.1 20.54N 100.21E 0 3.9,3.8
ISCJB III 24 15 18 33.7–1.0 20.68N–.07 99.9E–.30 10 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 24 15 54 35.5–.37 20.63N–.02 99.84E–.03 9–2 5.4s,5.4b 731 2-168
IDC III 24 15 54 33.5–.37 20.61N 99.82E 0 5.1s,5.1 ¶16357315
BKK III 24 15 54 33.2–.70 21N–5.0 100E–4.0 10 6.2,6.1b
BJI III 24 15 54 33.4 20.60N 99.90E 10 6.1L,5.9s
MOS III 24 15 54 34.0–.89 20.62N 99.82E 14 5.6b,5.5s
GCMT III 24 15 54 35.1–.50 20.61N 99.90E 14–2 5.7W,5.5s
ISCJB III 24 15 54 35.4–.09 20.71N–.01 99.80E–.02 19 5.4s,5.3b
NEIC III 24 15 54 35.1–.13 20.65N 99.77E 10 5.4b,5.3b
PLV III 24 15 54 35.8–2.0 20.49N 100.06E 8–9 5.6L,4.8W
ISC Event type se.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=98.0.
MOS Error ellipse: s-maj=6.3km s-min=3.6km az=113.4.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s2,c2; s75,c104; Duration: 1π7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13±.25 $M_{\theta\theta}$-1.52±.20; $M_{\phi\phi}$1.39±.21; $M_{r\theta}$1.07±.54; $M_{\theta\phi}$3.41±.20; $M_{\phi r}$1.13±.59; Best double couple: NP1:ϕ_s80.00000°,δ79.00000° ,λ18.00000°. NP2:ϕ_s347.00000°,δ72.00000°,λ168.00000°. Principal axes: T 4.2190,Plg21.0000°,Azm304.0000°; N -0.4240,Plg69.0000°,Azm111.0000° ; P -3.7930,Plg4.0000°,Azm213.0000° $M_0$4.00600×10^{17}
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=1.9km az=154.0.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.2km az=64.0.
PLV Error ellipse: s-maj=11.5km s-min=14.9km az=-1.0.
BKK III 24 16 15 38.8–1.4 20N–13 100E–4.0 10 4.4b,4.4b
¶16852276
ISC III 24 16 24 27.4–1.6 20.51N–.10 99.94E–.08 10 18 2-5
BKK III 24 16 24 23.7–2.5 21N–21 100E–6.0 64–34 4.3b,4.2 ¶16852278
ISCJB III 24 16 24 25.7–1.3 20.6N–.10 100.08E–.09 10 4.3b,4.2
PLV III 24 16 24 27.0–.84 20.63N 100.02E 9–8 3.5L,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=4.6km az=144.2.
PLV Error ellipse: s-maj=9.9km s-min=9.7km az=-1.0.
BKK III 24 16 46 36.2–2.2 20N–19 100E–6.0 0 3.6,3.6
¶16852281
ISC III 24 21 03 55.5–1.0 20.65N–.07 99.54E–.08 10 3.3b 13 2-55
BKK III 24 21 03 47.4–4.5 21N–40 100E–10 0 4.2 ¶16480703
IDC III 24 21 03 53.9–1.4 20.79N 99.91E 0 4.8L,3.6
PLV III 24 21 03 58.2–2.2 20.56N 100.21E 11–22 3.5L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=34.5km s-min=21.4km az=87.0.
PLV Error ellipse: s-maj=20.1km s-min=25.0km az=-1.0.
ISC III 25 00 22 39.7–.27 20.63N–.03 99.88E–.04 10 4.9b,4.5s 326 2-158
ISCJB III 25 00 22 37.5–.12 20.71N–.02 99.89E–.02 10 4.8b,4.4s ¶16358678
BKK III 25 00 22 37.5–1.9 21N–17 100E–4.0 10 5.7b,5.6
IDC III 25 00 22 37.2–.43 20.67N 99.96E 0 4.8L,4.6
MOS III 25 00 22 38.0–.95 20.73N 99.89E 14 5.0b,4.3s
BJI III 25 00 22 38.7 20.60N 99.90E 10 5.5L,5.2s
NEIC III 25 00 22 39.3–.15 20.71N 99.88E 10 5.0b,5.2s
GCMT III 25 00 22 39.3–.20 20.60N 99.95E 12 5.0W,5.2s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.5km az=158.6.
IDC Error ellipse: s-maj=12.8km s-min=9.6km az=93.0.
MOS Error ellipse: s-maj=7.5km s-min=4.4km az=111.2.
NEIC Event type fe. Error ellipse: s-maj=4.1km s-min=3.4km az=76.0. Felt at Louang Namtha, Laos and at Chiang Mai and Phrae, Thailand.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c38; s95,c151; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.24±.09 $M_{\theta\theta}$1.55±.08; $M_{\phi\phi}$-1.31±.09; $M_{r\theta}$2.54±.23; $M_{\theta\phi}$3.04±.07; $M_{\phi r}$1.21±.24; Best double couple: NP1:ϕ_s104.00000°,δ78.00000° ,λ28.00000°. NP2:ϕ_s8.00000°,δ63.00000°,λ166.00000°. Principal axes: T 4.9780,Plg28.0000°,Azm329.0000°; N -1.6780,Plg60.0000°,Azm126.0000° ; P -3.3000,Plg10.0000°,Azm233.0000° $M_0$4.13900×10^{16}
ISC III 25 00 35 55.5–.78 20.57N–.07 99.93E–.05 10 3.5b 26 2-55
ISCJB III 25 00 35 53.2–.55 20.58N–.05 100.06E–.04 10 3.5b ¶16480742
BKK III 25 00 35 55.3–1.6 20N–14 100E–5.0 10 4.2,4.2
IDC III 25 00 35 55.8–1.1 20.65N 99.63E 0 3.7,3.7L
PLV III 25 00 35 56.5–1.6 20.57N 100.07E 0–999 3.9L,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.2km az=148.3.
IDC Error ellipse: s-maj=36.0km s-min=12.8km az=95.0.
PLV Error ellipse: s-maj=16.3km s-min=13.6km az=-1.0.
ISC III 25 03 26 01.8–.56 20.67N–.05 99.88E–.05 10 4.0b,3.6s 44 2-83
BKK III 25 03 25 58.7–.80 21N–6.0 100E–4.0 0 4.5,4.5 ¶16480763
ISCJB III 25 03 25 59.2–.32 20.67N–.04 100.03E–.03 10 4.0b,3.6s
IDC III 25 03 26 01.2–.78 20.69N 99.72E 0 4.9L,3.9
NEIC III 25 03 26 02.5–.40 20.58N 99.59E 10 4.1b,3.9
PLV III 25 03 26 03.6–2.4 20.65N 100.12E 4–23 3.9L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.9km az=148.8.
IDC Error ellipse: s-maj=26.5km s-min=11.6km az=89.0.
NEIC Event type se. Error ellipse: s-maj=13.6km s-min=6.6km az=77.0.
PLV Error ellipse: s-maj=18.7km s-min=23.9km az=-1.0.
BKK III 25 12 01 02.2–.80 21N–5.0 100E–3.0 10 3.9,3.9
¶16852374
ISC III 25 16 30 06.7–1.6 20.77N–.09 99.67E–.08 10 19 2-5
ISCJB III 25 16 30 05.5–1.5 20.8N–.10 99.9E–.10 10 ¶16852385
BKK III 25 16 30 06.2–2.9 21N–25 100E–6.0 0 4.3b,4.1
PLV III 25 16 30 11.7–1.5 20.55N 100.17E 17–13 3.5L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=6.0km az=135.9.
PLV Error ellipse: s-maj=12.6km s-min=21.8km az=-1.0.
ISC III 25 20 46 42.6–1.4 20.6N–.10 99.8E–.10 10 3.4s 14 2-64
ISCJB III 25 20 46 40.9–.94 20.58N–.07 99.8E–.10 10 3.5b,3.4s ¶16480896
BKK III 25 20 46 40.5–2.7 21N–23 100E–7.0 10 4.1b,3.8b
IDC III 25 20 46 41.0–1.7 20.59N 99.87E 0 3.5b,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=9.7km az=174.0.
IDC Error ellipse: s-maj=30.1km s-min=14.2km az=98.0.
ISC III 25 22 37 24.2–.72 20.56N–.06 99.95E–.05 10 3.5b 31 1-55
BKK III 25 22 37 21.6–2.0 21N–18 100E–5.0 10 4.7b,4.5 ¶16480917
IDC III 25 22 37 22.5–1.1 20.51N 100.10E 0 4.3L,3.7
ISCJB III 25 22 37 22.2–.41 20.56N–.04 100.09E–.04 10 3.5b,3.2s
PLV III 25 22 37 25.2–1.2 20.81N 100.04E 16–8 4.0L,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=28.2km s-min=12.4km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=139.3.
PLV Error ellipse: s-maj=24.0km s-min=10.0km az=-1.0.

IDC III 26 03 27 34.5–3.8 26.95N 96.87E 84–39 3.7s,3.7
¶17198597
IDC Error ellipse: s-maj=54.7km s-min=16.1km az=68.0.
BKK III 26 04 38 15.2–1.3 21N–10 100E–6.0 10 3.8,3.8
¶16852424
BKK III 26 16 08 18.5–1.0 21N–8.0 100E–4.0 0 4.0b,3.9b
¶16852444
ISC III 27 00 35 48.8–.44 20.60N–.04 99.90E–.04 10 4.0b 69 1-72
BKK III 27 00 35 46.6–.70 21N–5.0 100E–3.0 10 5.2b,5.0 ¶17198704
IDC III 27 00 35 46.9–.72 20.61N 99.95E 0 4.2,4.2L
ISCJB III 27 00 35 47.0–.24 20.67N–.02 99.98E–.02 10 4.0b,4.2L
NEIC III 27 00 35 48.7–.29 20.54N 99.85E 10 4.1b,4.2L
PLV III 27 00 35 51.2–2.8 20.45N 100.09E 13–19 4.3L,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=11.8km az=90.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=3.3km az=159.8.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=81.0.
PLV Error ellipse: s-maj=21.1km s-min=25.0km az=-1.0.
ISC IV 07 08 25 35.8–1.7 20.66N–.08 99.91E–.06 1–16 20 1-5
PLV IV 07 08 25 36.8–1.7 21.61N 100.13E 18–26 3.5L ¶16852641
BKK IV 07 08 25 37.1–1.0 21N–7.0 100E–4.0 10 4.1,4.1
ISC Event type ke.
ISC IV 07 10 34 40.7–.55 22.06N–.07 94.50E–.06 120–5 3.9b 83 4-151
BKK IV 07 10 34 30.6–1.5 23N–23 94E–19 216–38 4.7b,4.5 ¶16455879
ISCJB IV 07 10 34 38.5–.49 22.08N–.05 94.61E–.05 113–6 4.0b,4.5
IDC IV 07 10 34 40.6–.67 22.14N 94.85E 118–5 4.4,4.3s
NEIC IV 07 10 34 40.6–.42 22.09N 94.81E 119–4 4.2b,4.3s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=4.4km az=135.2.
IDC Error ellipse: s-maj=25.2km s-min=9.6km az=60.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=5.5km az=52.0.
ISC IV 08 05 39 37.8–.39 21.69N–.06 94.55E–.06 97 4.2b 91 5-154
ISCJB IV 08 05 39 36.2–.26 21.64N–.04 94.58E–.05 97 4.2b ¶16506250
NEIC IV 08 05 39 38.5–.79 21.65N 94.68E 104–7 4.5b
IDC IV 08 05 39 38.0–1.6 21.67N 94.65E 98–13 4.3,4.0
BJI IV 08 05 39 39.4 21.74N 94.64E 115 4.6b,4.4b
BKK IV 08 05 39 47.4–6.3 21N–31 96E–44 0 4.4b,4.3b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC IV 08 07 03 45.2–3.5 23.26N 95.23E 0 3.9,3.7
¶17200213
IDC Error ellipse: s-maj=264.1km s-min=21.2km az=62.0.
ISC IV 09 03 33 00.9–.47 26.81N–.06 97.05E–.06 28 4.2b,3.5s 73 5-147
IDC IV 09 03 32 56.8–.52 26.92N 97.20E 0 4.2,4.1 ¶16455896
ISCJB IV 09 03 32 59.3–.35 26.79N–.05 96.95E–.03 28 4.2b,3.6s
NEIC IV 09 03 33 01.3–2.0 26.92N 97.20E 29–14 4.4b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=12.3km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.4km az=5.9.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.0km az=59.0.
ISC IV 20 05 44 03.5–2.2 20.7N–.10 99.8E–.10 10 12 1-4
ISCJB IV 20 05 44 01.0–1.8 20.8N–.10 99.9E–.10 10 ¶16853001
BKK IV 20 05 44 03.0–2.2 21N–19 100E–5.0 0 3.9,3.9
PLV IV 20 05 44 08.6–1.1 21.42N 100.13E 23–999 3.5L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.8km s-min=5.9km az=143.5.
PLV Error ellipse: s-maj=81.5km s-min=21.4km az=-1.0.
ISC IV 22 08 13 11.6–.52 23.90N–.07 96.2E–.10 10 4.0b,3.6s 40 4-90
BKK IV 22 08 13 04.9–9.0 24N–59 94E–54 238–31 5.2,4.6b ¶16532316
IDC IV 22 08 13 09.9–.71 23.90N 96.03E 0 4.0,3.9
ISCJB IV 22 08 13 10.2–.35 23.94N–.06 96.13E–.08 10 3.9b,3.5s
NEIC IV 22 08 13 16.3–1.0 23.86N 96.07E 47–11 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=27.4km s-min=12.3km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=5.1km az=141.4.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=6.6km az=56.0.
ISC IV 22 11 03 04.7–2.0 20.6N–.10 99.97E–.07 10 12 1-4
BKK IV 22 11 03 01.8–1.2 21N–6.0 100E–12 10 4.4,4.4 ¶16853023
ISCJB IV 22 11 03 03.6–1.2 20.75N–.07 99.94E–.06 10 4.4,4.4
PLV IV 22 11 03 16.6–4.1 22.66N 100.85E 13–999 3.5L,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=4.5km az=144.7.
PLV Error ellipse: s-maj=225.2km s-min=42.6km az=-1.0.
ISC IV 29 14 25 46.6–.57 26.05N–.06 97.03E–.08 16 4.0b,3.3s 39 5-98
BKK IV 29 14 25 21.0–1.5 28N–17 96E–37 386–107 5.3b,4.7 ¶16505580
IDC IV 29 14 25 44.7–.72 26.07N 96.97E 0 4.0,4.0L
ISCJB IV 29 14 25 45.2–.44 26.00N–.06 96.85E–.06 16 3.9b,3.2s
NEIC IV 29 14 25 48.8–.45 26.03N 97.05E 35 4.0b,3.2s
ISC Event type se.
IDC Error ellipse: s-maj=50.3km s-min=13.7km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=6.1km az=40.4.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.0km az=56.0.
ISC V 02 13 46 15.7–.55 20.38N–.06 93.95E–.05 52 4.0b 53 4-64
ISCJB V 02 13 46 14.3–.30 20.44N–.05 94.00E–.04 52 4.0b ¶16577956
BKK V 02 13 46 14.1–5.1 20N–23 94E–38 0 4.6,4.6b
NEIC V 02 13 46 17.4–1.2 20.43N 94.08E 62–10 4.2b,4.6b
IDC V 02 13 46 18.2–4.3 20.43N 94.09E 70–39 4.7L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=3.8km az=36.0.
NEIC Event type se. Error ellipse: s-maj=16.7km s-min=6.0km az=53.0.
IDC Error ellipse: s-maj=43.7km s-min=13.6km az=57.0.
ISC V 07 00 40 52.6–1.2 19.9N–.10 95.45E–.09 15 17 3-14
BKK V 07 00 41 02.7–7.2 20N–17 95E–58 10 4.2b,3.9b ¶16853345
ISC Event type ke.
ISC V 09 21 16 17.3–.80 20.71N–.07 99.58E–.06 10 3.5b 17 1-56
IDC V 09 21 16 16.1–1.1 20.66N 99.51E 0 4.0s,4.0 ¶16709293
BKK V 09 21 16 17.7–4.1 21N–37 100E–17 26–12 5.0,5.0
PLV V 09 21 16 21.7–1.6 20.95N 100.09E 12–22 4.0L,5.0
ISC Event type ke.
IDC Error ellipse: s-maj=52.1km s-min=19.0km az=59.0.
PLV Error ellipse: s-maj=33.2km s-min=16.1km az=-1.0.
ISC V 15 15 32 47.5–.58 26.04N–.08 96.41E–.07 35 3.9b 39 4-88
IDC V 15 15 32 42.4–.65 26.04N 96.59E 0 4.4L,3.9 ¶16560073
ISCJB V 15 15 32 45.1–.42 25.94N–.06 96.37E–.05 33 3.9b,3.5s
NEIC V 15 15 32 46.4–3.0 26.07N 96.62E 26–23 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=30.2km s-min=13.3km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=6.2km az=19.6.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=7.6km az=60.0.
ISC V 18 07 56 24.1–1.1 20.5N–.20 94.4E–.20 72 4.0b 14 5-127
ISCJB V 18 07 56 22.2–.96 20.5N–.20 94.4E–.20 72 3.7b ¶17203864
IDC V 18 07 56 24.4–3.9 20.52N 94.38E 75–35 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.6km s-min=8.0km az=36.7.
IDC Error ellipse: s-maj=48.9km s-min=15.6km az=50.0.
IDC V 25 04 36 34.4–5.6 22.84N 94.35E 86–44 4.0,3.8
¶17204428
IDC Error ellipse: s-maj=155.3km s-min=14.6km az=59.0.
BKK V 25 16 57 51.3–1.1 21N–7.0 100E–6.0 10 3.9
¶16855032
ISC V 26 13 25 44.4–.70 21.2N–.10 94.5E–.10 100 3.7b 39 5-93
ISCJB V 26 13 25 43.1–.47 21.2N–.10 94.6E–.10 100 3.8b ¶16855207
IDC V 26 13 25 45.3–3.0 21.24N 94.78E 103–24 3.9,3.7
BKK V 26 13 25 48.2–1.0 20N–14 95E–6.0 10 4.9b,4.8b
ISC Event type ke.
ISCJB Event type ke.
ISC V 28 14 30 48.1–.80 20.61N–.05 99.98E–.05 10 3.6b 31 1-55
ISCJB V 28 14 30 46.6–.50 20.66N–.04 100.01E–.06 10 3.5b ¶16711139
IDC V 28 14 30 46.7–.99 20.65N 99.98E 0 3.6b,3.5
BKK V 28 14 30 48.4–1.0 21N–9.0 100E–2.0 0 4.8b,4.2

ISC Event type ke.
ISCJB Event type ke.
ISC VI 01 08 38 03.9–.53 25.52N–.06 96.57E–.06 25 4.1b,3.5s 53 4-89
BKK VI 01 08 37 32.3–1.0 28N–10 96E–15 135–47 6.0,4.9 ¶16855999
IDC VI 01 08 37 59.4–.69 25.40N 96.65E 0 4.2L,4.1
ISCJB VI 01 08 38 03.2–.60 25.54N–.08 96.33E–.07 25 4.0b,3.6s
NEIC VI 01 08 38 05.1–1.3 25.43N 96.74E 42–13 4.2b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=32.2km s-min=13.1km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=9.1km az=15.0.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=8.3km az=56.0.
IDC VI 04 14 44 59.6–3.1 24.62N 95.86E 215–38 3.4,3.2
¶17205221
IDC Error ellipse: s-maj=146.8km s-min=18.5km az=60.0.
BKK VI 08 20 42 32.9–1.2 21N–7.0 98E–8.0 10 3.7
¶16856708
BKK VI 14 18 52 13.3–.90 21N–6.0 100E–7.0 59–33 4.1b,3.9
¶16841887
ISC VI 26 02 27 05.3–.83 22.5N–.10 94.1E–.10 88 4.1b 24 4-60
IDC VI 26 02 26 58.7–1.7 23.25N 95.81E 0 4.0,3.9 ¶16731478
ISCJB VI 26 02 27 03.9–.52 22.5N–.10 94.2E–.10 88 3.9b,3.9
NEIC VI 26 02 27 08.1–1.5 23.81N 96.39E 66–21 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=157.1km s-min=17.8km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=6.3km az=41.4.
NEIC Event type se. Error ellipse: s-maj=97.5km s-min=8.8km az=56.0.
IDC VI 29 18 52 58.7–4.5 23.22N 95.81E 0 3.7,3.5b
¶17207213
IDC Error ellipse: s-maj=416.4km s-min=29.6km az=59.0.

(297) Myanmar-China border region.

ISC I 01 07 32 01.7–.37 24.59N–.04 97.95E–.03 10 4.2b,3.8s 105 4-145
BKK I 01 07 31 53.2–7.8 25N–61 98E–26 10 5.1,4.6b ¶15927161
IDC I 01 07 31 59.9–.72 24.65N 97.99E 0 4.5L,4.1
ISCJB I 01 07 32 00.1–.21 24.61N–.03 97.99E–.03 10 4.2b,3.7s
BJI I 01 07 32 00.2 24.72N 97.92E 10 4.7b,4.5L
NEIC I 01 07 32 05.3–.84 24.59N 98.02E 36–9 4.5b,4.5L
ISC Event type se.
IDC Error ellipse: s-maj=28.9km s-min=15.3km az=56.0.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.5km az=137.7.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=6.1km az=54.0.
ISC I 01 12 58 16.0–.99 24.81N–.08 98.16E–.07 10 8 4-57
ISCJB I 01 12 58 12.9–.86 24.71N–.10 98.29E–.06 10 3.4b ¶16394578
BJI I 01 12 58 14.8 24.72N 97.93E 10 3.5L
IDC I 01 12 58 14.5–1.6 24.70N 98.33E 0 4.2L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=7.8km az=172.1.
IDC Error ellipse: s-maj=60.7km s-min=20.1km az=75.0.
ISC I 01 23 33 37.6–.29 24.68N–.04 97.92E–.03 10 4.7b,4.1s 224 4-164
MOS I 01 23 33 36.6–.75 24.69N 97.96E 15 4.7b,4.1s ¶15902708
BJI I 01 23 33 36.5 24.71N 97.91E 13 4.8b,4.8s
IDC I 01 23 33 36.1–.45 24.71N 97.93E 0 4.5L,4.4
ISCJB I 01 23 33 36.0–.17 24.68N–.02 97.93E–.03 10 4.5b,4.1s
NEIC I 01 23 33 39.5–1.3 24.65N 97.92E 21–9 5.0b,4.1s
BKK I 01 23 33 55.5–6.0 23N–47 98E–20 10 4.7,4.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC I 01 23 44 32.5–.55 24.58N–.06 97.74E–.05 10 4.0b,3.6s 37 3-86
BKK I 01 23 44 11.8–2.7 26N–22 98E–21 10 5.0,4.7b ¶15906728
ISCJB I 01 23 44 31.2–.37 24.64N–.05 97.85E–.06 10 4.0b,3.7s
IDC I 01 23 44 31.5–.92 24.59N 97.80E 0 4.4L,3.9
BJI I 01 23 44 33.1 24.71N 97.91E 10 4.2L,4.1b
NEIC I 01 23 44 35.9–.49 24.54N 97.87E 35 4.1b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.8km az=141.7.
IDC Error ellipse: s-maj=51.0km s-min=15.2km az=67.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=8.2km az=66.0.
ISC I 02 04 16 03.1–1.2 24.7N–.10 97.9E–.10 10 3.4b 7 4-57
IDC I 02 04 16 02.2–1.4 24.73N 98.08E 0 4.0L,3.5 ¶15906901
BJI I 02 04 16 03.4 24.72N 97.92E 10 3.5L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=51.9km s-min=18.8km az=78.0.
ISC I 03 04 06 24.2–3.0 22.4N–.10 98.7E–.20 10 6 4-10
BKK I 03 04 06 19.7–2.4 23N–17 99E–20 10 5.0b,4.8 ¶16587372
BJI I 03 04 06 30.7 21.99N 99.04E 11 3.7L,3.5s
ISC Event type ke.
ISC I 14 14 50 36.8–.62 24.72N–.06 98.00E–.05 10 3.8b,3.2s 36 4-147
ISCJB I 14 14 50 34.7–.36 24.80N–.03 98.06E–.04 10 3.6b,3.2s ¶16395835
BJI I 14 14 50 36.6 24.73N 97.94E 5 4.2s,4.1L
IDC I 14 14 50 36.1–.87 24.65N 98.16E 0 4.6L,3.8
BKK I 14 14 50 54.4–7.3 23N–58 98E–21 10 4.9,4.7b
ISC Event type ke.
ISCJB Event type ke.
IDC I 14 15 05 32.7–1.7 24.71N 98.28E 0 3.4L,3.3
¶17190183
IDC Error ellipse: s-maj=57.1km s-min=22.4km az=73.0.
ISC II 01 07 11 25.8–.57 24.67N–.04 97.89E–.03 28–4 4.8b,4.2s 315 4-150
BJI II 01 07 11 20.7 24.70N 97.90E 10 5.0L,4.9s ¶15990795
IDC II 01 07 11 20.6–.55 24.52N 97.89E 0 4.5,4.4
MOS II 01 07 11 23.4–1.0 24.60N 97.90E 28 5.0b,4.4s
BKK II 01 07 11 23.0–9.1 25N–74 98E–23 10 5.7,5.1
ISCJB II 01 07 11 24.4–.15 24.67N–.02 97.94E–.02 33 4.7b,4.3s
NEIC II 01 07 11 26.1–1.8 24.69N 97.94E 31–13 4.8b,4.3s
ISC Event type de.
IDC Error ellipse: s-maj=19.7km s-min=12.3km az=49.0.
MOS Error ellipse: s-maj=9.9km s-min=4.5km az=118.0.
ISCJB Event type de. Error ellipse: s-maj=3.0km s-min=2.8km az=19.8.
NEIC Event type de. Error ellipse: s-maj=6.7km s-min=4.9km az=58.0. At least 1 person injured at Pingyuan and at least 700 houses damaged or destroyed and 80,000 people displaced in the Yingjiang area, China.
ISC II 05 07 54 22.7–1.1 24.65N–.10 98.19E–.10 10 3.6b 7 4-57
ISCJB II 05 07 54 20.9–.89 24.63N–.07 98.30E–.07 10 3.5b,3.2s ¶16397645
BJI II 05 07 54 20.7 24.71N 97.92E 10 3.8b,3.7L
IDC II 05 07 54 21.2–1.2 24.72N 98.34E 0 4.3L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=8.3km az=162.3.
IDC Error ellipse: s-maj=43.6km s-min=16.3km az=77.0.
ISC II 06 20 09 33.7–1.3 24.8N–.10 98.1E–.10 10 3.0b 5 4-57
ISCJB II 06 20 09 31.1–1.1 24.6N–.10 98.1E–.40 10 3.8s,3.0b ¶16397752
IDC II 06 20 09 31.3–1.4 24.69N 98.22E 0 3.8,3.8s
BJI II 06 20 09 32.9 24.72N 97.94E 10 3.3L,3.8s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=52.6km s-min=14.9km az=169.4.
IDC Error ellipse: s-maj=53.4km s-min=17.8km az=80.0.
ISC II 07 18 47 14.1–.97 24.65N–.05 97.82E–.10 10 3.6b,3.2s 15 4-46
BKK II 07 18 46 25.9–2.8 28N–29 97E–26 134–72 4.8b,4.4b ¶16019569
IDC II 07 18 47 11.9–1.4 24.74N 98.17E 0 4.0L,3.6
BJI II 07 18 47 11.9 24.73N 97.96E 10 3.9b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=54.5km s-min=17.9km az=82.0.
ISC II 08 21 49 07.8–1.1 24.7N–.10 98.09E–.08 10 3.5b,3.0s 11 4-66
BKK II 08 21 49 00.4–12 25N–101 99E–25 0 5.1b,4.6 ¶16397849
ISCJB II 08 21 49 06.8–.68 24.63N–.06 98.18E–.06 10 3.2b,3.1s
IDC II 08 21 49 06.2–1.5 24.72N 97.94E 0 4.0L,3.5
BJI II 08 21 49 07.8 24.70N 97.90E 10 3.5L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.2km az=43.1.
IDC Error ellipse: s-maj=45.5km s-min=18.3km az=79.0.
BJI II 13 04 51 41.8 24.72N 97.92E 10 3.6L
¶16031739
ISC III 10 04 58 16.5–.34 24.76N–.03 97.90E–.02 24–2 5.5b,5.3s 838 4-169
IDC III 10 04 58 11.9–.35 24.71N 97.97E 0 5.5L,5.2 ¶16298683
BJI III 10 04 58 12.4 24.65N 97.95E 10 5.9s,5.6
NEIC III 10 04 58 13.8–.12 24.73N 97.96E 10 5.4L,5.4b
MOS III 10 04 58 14.4–.98 24.68N 97.96E 27 5.7b,5.2s
GCMT III 10 04 58 15.7–.10 24.64N 97.98E 15 5.5W,5.2s
ISCJB III 10 04 58 15.1–.10 24.70N–.02 97.95E–.02 30 5.4b,5.3s
BKK III 10 04 58 17.0–6.0 24N–47 98E–21 10 6.1,5.6b
ISC Event type de.
NEIC Event type de. Twenty-five people killed, 250 injured, 1,039 homes destroyed, 12,528 buildings damaged, several roads damaged and electricity and telecommunications disrupted in the Pingyuan area, China. Felt at Dali. Also felt at Khonsa, India.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s99,c172; s128,c271;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.02 $M_{\theta\theta}$-1.68±.02; $M_{\phi\phi}$1.33±.02; $M_{r\theta}$-0.09±.06; $M_{\theta\phi}$1.18±.02; $M_{r\phi}$0.33±.07; Best double couple: NP1:ϕ_s333.00000°,δ85.00000°,λ169.00000°. NP2:ϕ_s64.00000° ,δ79.00000°,λ5.00000°. Principal axes: T 1.7930,Plg11.0000°,Azm288.0000° ; N 0.3090,Plg78.0000°,Azm131.0000°; P -2.1030,Plg5.0000°,Azm19.0000° $M_0$1.94800×10^{17}
ISCJB Event type de.
ISC III 10 05 03 58.7–.60 24.63N–.06 98.12E–.06 10 4.0b 24 4-89
ISCJB III 10 05 03 57.2–.49 24.72N–.06 98.21E–.05 10 3.9b ¶16442212
BJI III 10 05 03 57.0 24.70N 97.92E 10 4.4L,4.3b
IDC III 10 05 03 57.8–.72 24.76N 98.24E 0 4.7L,4.1
NEIC III 10 05 03 59.2–.37 24.73N 98.24E 10 4.4L,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.8km az=10.5.
IDC Error ellipse: s-maj=25.7km s-min=15.3km az=60.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.8km az=62.0.
ISC III 10 05 04 52.7–.75 24.58N–.05 98.13E–.06 10 4.1b 21 4-59
ISCJB III 10 05 04 50.1–.50 24.48N–.04 98.20E–.05 10 3.9b ¶16484762
IDC III 10 05 04 51.8–.92 24.57N 98.02E 0 4.4L,4.0
NEIC III 10 05 04 52.9–.61 24.62N 98.19E 10 4.4L,4.3b
BJI III 10 05 04 52.6 24.68N 97.92E 10 4.4L,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=165.8.
IDC Error ellipse: s-maj=47.9km s-min=16.2km az=62.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=9.9km az=67.0.
BJI III 10 05 05 24.7 24.69N 97.94E 9 3.8L
¶17539289
ISC III 10 12 40 04.1–.94 24.59N–.07 98.06E–.07 10 3.7s,3.6b 15 4-59
ISCJB III 10 12 40 02.6–.61 24.71N–.06 98.18E–.05 10 3.6s,3.5b ¶17193625
BJI III 10 12 40 02.1 24.73N 97.98E 6 3.8L,3.5b
IDC III 10 12 40 02.5–1.1 24.71N 98.24E 0 4.0L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.1km az=177.2.
IDC Error ellipse: s-maj=41.5km s-min=16.6km az=70.0.
ISC III 10 12 41 39.6–.68 24.72N–.05 98.18E–.06 10 4.0b,3.8s 22 4-80
IDC III 10 12 41 37.6–.92 24.69N 98.13E 0 4.5L,4.0 ¶17193626
ISCJB III 10 12 41 37.4–.56 24.76N–.05 98.27E–.05 10 3.8b,3.8s
BJI III 10 12 41 37.2 24.74N 97.98E 7 4.4b,4.4L
ISC Event type ke.
IDC Error ellipse: s-maj=43.9km s-min=14.7km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.3km az=168.5.
BJI III 10 12 41 59.8 24.75N 97.96E 6 3.9,3.9b
¶17539292
IDC III 19 16 33 57.8–3.7 24.47N 97.20E 0 3.8s,3.8
¶17197274
IDC Error ellipse: s-maj=444.8km s-min=21.8km az=58.0.
ISC III 31 22 54 30.4–.65 24.67N–.05 98.05E–.05 10 3.9b 30 4-67
BKK III 31 22 54 08.7–1.8 26N–8.0 97E–16 0 4.0,4.0b ¶16409981
ISCJB III 31 22 54 27.5–.52 24.62N–.05 97.84E–.06 10 3.7b,4.0b
IDC III 31 22 54 29.1–1.1 24.68N 98.00E 0 4.2L,3.9
BJI III 31 22 54 29.3 24.70N 97.92E 10 3.8L,3.8s
NEIC III 31 22 54 30.3–.53 24.69N 98.17E 10 4.0b,3.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=7.1km az=38.7.
IDC Error ellipse: s-maj=62.1km s-min=16.4km az=76.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.2km az=60.0.
ISC IV 13 22 35 16.4–1.1 23.27N–.05 98.50E–.09 10 3.2b 18 3-32
BKK IV 13 22 34 55.4–1.3 25N–7.0 97E–20 10 5.5b,5.1 ¶16706813
IDC IV 13 22 35 15.6–1.4 23.41N 98.61E 0 3.5L,3.3
BJI IV 13 22 35 19.7 23.40N 98.42E 10 4.0L,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=40.9km s-min=16.9km az=85.0.
ISC IV 28 02 17 15.2–1.5 25.3N–.10 97.05E–.09 10 3.5b 12 5-58
IDC IV 28 02 17 37.1–5.0 26.24N 96.75E 151–60 3.4,3.2 ¶17202270
ISC Event type ke.
IDC Error ellipse: s-maj=118.6km s-min=22.3km az=59.0.
ISC V 16 18 19 39.9–1.4 22.23N–.07 98.9E–.10 10 3.6b 19 2-57
BKK V 16 18 19 27.0–1.2 23N–6.0 98E–19 10 4.7,4.4 ¶16710035
IDC V 16 18 19 38.3–1.4 22.29N 98.91E 0 3.6,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=37.0km s-min=18.3km az=79.0.
BJI V 24 21 32 34.7 25.04N 98.68E 10 3.7L
¶17542323
ISC V 25 14 23 08.0–1.3 26.0N–.30 98.0E–.10 35 10 4-20
BJI V 25 14 22 59.2 25.88N 98.58E 8 3.6L,3.5b ¶17542324
ISCJB V 25 14 23 05.5–.73 26.0N–.20 97.95E–.07 33 3.6L,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 22 46 40.3–1.6 25.1N–.10 98.4E–.10 10 7 4-21
BJI V 27 22 46 43.6 25.05N 98.65E 10 3.5L ¶16637441
ISC Event type ke.
ISC V 28 10 07 39.6–1.1 24.48N–.07 97.4E–.10 10 3.4b 14 5-60
BJI V 28 10 07 39.1 24.71N 97.93E 10 3.4L ¶16637511
IDC V 28 10 07 44.3–4.8 24.52N 97.99E 33–41 4.3L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=48.0km s-min=19.0km az=69.0.
ISC V 31 13 13 39.5–.36 24.98N–.04 98.76E–.03 17 4.3b,3.7s 160 4-89
BJI V 31 13 13 37.0 25.04N 98.70E 11 4.7L,4.6b ¶16552290
IDC V 31 13 13 37.2–.53 25.04N 98.86E 0 4.2,4.2L
ISCJB V 31 13 13 38.2–.20 25.03N–.02 98.74E–.03 17 4.3b,3.7s
MOS V 31 13 13 39.8–1.1 25.01N 98.71E 30 4.6b,3.7s
NEIC V 31 13 13 42.3–1.8 25.06N 98.79E 34–13 4.7b,3.7s
BKK V 31 13 14 01.3–4.4 24N–36 99E–13 10 4.7,4.6b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Dali, China.
BKK VI 07 18 03 46.9–1.1 22N–7.0 100E–7.0 10 3.8,3.8
¶16856630
BKK VI 11 23 49 06.0–1.0 21N–5.0 99E–5.0 10 4.0,4.0
¶16856998
ISC VI 14 18 02 49.1–1.0 25.3N–.10 98.89E–.06 10 3.4b 13 3-59
ISCJB VI 14 18 02 46.0–.78 25.13N–.09 98.84E–.06 10 3.3b ¶17206129
BJI VI 14 18 02 47.0 25.03N 98.67E 9 3.7L
IDC VI 14 18 02 47.0–1.1 25.02N 98.44E 0 3.7L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.8km az=10.6.
IDC Error ellipse: s-maj=49.7km s-min=16.9km az=70.0.
IDC VI 17 16 45 33.4–2.0 23.60N 99.28E 0 3.5b,3.3
¶17206400
IDC Error ellipse: s-maj=55.8km s-min=20.6km az=85.0.
ISC VI 20 10 16 52.6–.41 25.05N–.03 98.72E–.03 19–1 5.3b,4.5s 761 4-165
BJI VI 20 10 16 49.6 25.05N 98.69E 10 5.4L,5.3s ¶16638798
IDC VI 20 10 16 49.1–.34 25.01N 98.77E 0 5.1,5.1
ISCJB VI 20 10 16 52.5–.12 25.06N–.02 98.71E–.02 32 5.2b,4.5s
MOS VI 20 10 16 52.6–.94 25.04N 98.77E 35 5.5b,4.5s
BKK VI 20 10 16 53.0–.30 25N–4.0 99E–6.0 10 5.7,5.5
NEIC VI 20 10 16 55.3–.60 25.08N 98.72E 39–5 5.3b,5.5
GCMT VI 20 10 16 55.3–.20 25.00N 98.80E 16–0 5.0W,5.5

ISC Event type de.
IDC Error ellipse: s-maj=10.4km s-min=8.6km az=67.0.
ISCJB Event type de. Error ellipse: s-maj=2.8km s-min=2.3km az=19.0.
MOS Error ellipse: s-maj=5.9km s-min=3.5km az=117.2.
NEIC Event type de. Error ellipse: s-maj=3.5km s-min=3.0km az=215.0. Four people injured and moderate damage at Baoshan, China.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s50,c65; s104,c178; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.90±.18 $M_{\theta\theta}$-5.45±.13; $M_{\phi\phi}$2.55±.12; $M_{r\theta}$0.17±.31; $M_{\theta\phi}$0.99±.10; $M_{\phi r}$-0.04±.43; Best double couple: NP1:ϕ_s103.00000°,δ46.00000°,λ98.00000°. NP2:ϕ_s271.00000°,δ44.00000°,λ82.00000°. Principal axes: T 2.9060,Plg84.0000°,Azm86.0000°; N 2.6690,Plg6.0000°,Azm277.0000°; P -5.5750,Plg1.0000°,Azm187.0000° $M_0$4.24100×10^{16}

BJI VI 20 11 03 54.0 25.03N 98.67E 10 3.6L ¶17536404
ISC VI 25 11 30 13.7–.67 25.24N–.05 98.83E–.06 10 3.9b,2.9s 23 4-67
BJI VI 25 11 30 11.3 25.05N 98.69E 10 3.9L,3.9s **¶16720992**
IDC VI 25 11 30 11.7–1.9 25.09N 98.74E 0 4.1L,3.8
BKK VI 25 11 30 37.3–1.6 25N–9.0 97E–34 106–75 5.2b,4.8
ISC Event type ke.

(298) Near south coast of Myanmar.

ISC I 26 21 07 55.0–1.5 15.2N–.20 94.1E–.10 35 3.3b 13 6-53
IDC I 26 21 07 48.9–2.2 15.01N 93.93E 0 3.8,3.8s **¶17191060**
ISC Event type ke.
IDC Error ellipse: s-maj=58.2km s-min=28.2km az=65.0.
IDC VI 25 09 50 10.1–1.9 16.59N 95.15E 0 3.7,3.6b ¶17206917
IDC Error ellipse: s-maj=57.8km s-min=23.2km az=70.0.

(301) South China Sea.

ISC I 26 07 24 27.7–.34 9.74N–.04 108.23E–.05 10 4.7s,4.6b 161 2-149
BJI I 26 07 24 23.8 9.52N 108.05E 10 5.3s,4.9 **¶15966147**
IDC I 26 07 24 25.2–.54 9.81N 108.21E 0 4.4,4.4s
ISCJB I 26 07 24 25.8–.24 9.81N–.03 108.19E–.04 10 4.7s,4.4b
MOS I 26 07 24 26.8–1.3 9.81N 108.32E 21 4.9b,4.8s
NEIC I 26 07 24 27.5–.28 9.89N 108.24E 10 4.7b,4.8s
DJA I 26 07 24 31.2–1.1 10N–13 108E–4.0 10 5.8b,5.4
GCMT I 26 07 24 31.1–.20 9.96N 108.22E 12 5.0W,5.4
ISC Event type fe.
IDC Error ellipse: s-maj=19.4km s-min=11.7km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.3km az=170.4.
MOS Error ellipse: s-maj=11.2km s-min=6.2km az=115.5.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=5.1km az=64.0. Felt [II] at Ho Chi Minh City and Phan Thiet, Vietnam. Also felt at Bac Lieu, Nha Trang and Vung Tau.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c51; s87,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.02±.09 $M_{\theta\theta}$-1.57±.07; $M_{\phi\phi}$2.59±.09; $M_{r\theta}$-0.17±.22; $M_{\theta\phi}$-2.84±.07; $M_{\phi r}$-1.21±.23; Best double couple: NP1:ϕ_s16.00000°,δ85.00000°,λ-21.00000°. NP2:ϕ_s108.00000°,δ69.00000°,λ-174.00000°. Principal axes: T 4.2230,Plg11.0000°,Azm64.0000°; N -0.9760,Plg68.0000°,Azm183.0000°; P -3.2470,Plg19.0000°,Azm330.0000° $M_0$3.73500×10^{16}

(734) Laos.

ISC II 23 15 53 16.0–.94 18.78N–.03 101.73E–.02 12–6 4.6b,3.8s 196 1-94
BJI II 23 15 53 12.7 18.61N 101.78E 10 4.8b,4.6L **¶16152143**
IDC II 23 15 53 13.7–.56 18.86N 101.75E 0 5.2L,4.4
ISCJB II 23 15 53 15.6–.68 18.77N–.02 101.73E–.02 21–5 4.5b,3.7s
NEIC II 23 15 53 16.3–.34 18.92N 101.73E 10 4.6b,3.7s
BKK II 23 15 53 16.7–.60 19N–3.0 102E–2.0 21–8 5.6b,5.4
MOS II 23 15 53 17.0–.96 18.80N 101.75E 33 4.8b,5.4
PLV II 23 15 53 18.1–.75 18.87N 101.98E 2–3 4.4L,5.4
ISC Event type fe.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=16.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=175.3.
NEIC Event type fe. Error ellipse: s-maj=9.6km s-min=6.8km az=55.0. Felt [II] at Phonhong and Vientiane. Felt [IV] at Nam Som, [III] at Nong Khai and [II] at Udon Thani, Thailand. Also felt at Khon Kaen, Nan, Pong and Tha Bo.
MOS Error ellipse: s-maj=9.5km s-min=6.4km az=117.1.
PLV Error ellipse: s-maj=2.4km s-min=3.2km az=-1.0.

ISC III 24 15 16 03.5–1.2 20.59N–.08 100.3E–.20 10 3.4b 8 2-40
BKK III 24 15 15 57.7–1.6 21N–10 100E–4.0 0 4.8,4.8 **¶16480654**
ISCJB III 24 15 16 01.8–1.0 20.62N–.06 100.3E–.10 10 3.5b,4.8
IDC III 24 15 16 03.4–1.6 20.55N 99.87E 0 4.7L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.0km s-min=8.9km az=7.8.
IDC Error ellipse: s-maj=25.4km s-min=15.1km az=96.0.

ISC III 24 15 59 58.7–.92 20.69N–.07 100.0E–.10 10 3.9b 13 1-55
BKK III 24 15 59 43.4–1.2 21N–7.0 100E–9.0 0 5.0,5.0 **¶16480662**
IDC III 24 15 59 57.3–.93 20.73N 100.29E 0 5.4L,4.2
ISCJB III 24 15 59 57.1–.69 20.74N–.05 100.1E–.10 10 4.0b,4.2
ISC Event type ke.
ISCJB Event type ke.

ISC III 24 17 20 10.5–.44 20.64N–.05 100.07E–.05 10 4.2b 76 2-83
ISCJB III 24 17 20 08.4–.22 20.80N–.03 100.19E–.02 10 4.2b **¶16462153**
IDC III 24 17 20 09.0–.54 20.73N 100.14E 0 4.4L,4.2
PLV III 24 17 20 09.3–.82 20.63N 100.20E 6–5 4.6L,4.4W
BKK III 24 17 20 09.7–4.8 21N–17 100E–6.0 32–57 5.3,5.3b
NEIC III 24 17 20 10.7–.34 20.75N 100.16E 10 4.4b,5.3b
BJI III 24 17 20 10.1 20.54N 100.19E 27 5.0L,4.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.2km az=167.5.
IDC Error ellipse: s-maj=17.9km s-min=11.2km az=81.0.
PLV Error ellipse: s-maj=7.9km s-min=9.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=6.3km az=92.0.
BKK III 24 18 59 10.6–1.7 21N–16 100E–6.0 10 3.6,3.6 ¶16852298
ISC III 24 23 17 17.7–2.9 20.58N–.08 100.1E–.20 10 12 3-5
PLV III 24 23 17 16.4–2.7 20.64N 100.07E 8–19 3.6L **¶601751160**
ISC Event type ke.
PLV Error ellipse: s-maj=21.0km s-min=29.3km az=-1.0.

ISC III 24 23 35 05.1–1.5 20.4N–.10 100.15E–.08 10 12 2-5
BKK III 24 23 35 05.1–3.1 21N–24 100E–12 10 3.9,3.9 **¶16852319**
PLV III 24 23 35 06.0–1.1 20.37N 100.23E 18–999 3.5L,3.9
ISC Event type ke.
PLV Error ellipse: s-maj=15.2km s-min=22.2km az=-1.0.

ISC III 25 06 30 39.6–.63 20.73N–.06 100.19E–.05 10 3.8b,3.4s 39 2-83
ISCJB III 25 06 30 37.7–.36 20.75N–.05 100.22E–.03 10 3.9b,3.5s **¶16480725**
IDC III 25 06 30 38.0–.83 20.74N 100.14E 0 4.1L,3.8
NEIC III 25 06 30 39.1–3.5 20.70N 100.11E 8–23 4.6b,3.8
PLV III 25 06 30 40.5–1.3 20.71N 100.27E 9–15 4.3L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.0km az=166.0.
IDC Error ellipse: s-maj=25.9km s-min=13.6km az=91.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.0km az=64.0.
PLV Error ellipse: s-maj=12.3km s-min=14.2km az=-1.0.
IDC III 25 06 32 49.5–2.0 20.74N 100.10E 0 4.4L,4.1 ¶17198462
IDC Error ellipse: s-maj=41.3km s-min=16.5km az=100.0.

ISC III 25 07 40 54.7–.97 20.77N–.08 100.3E–.10 10 3.6b 12 2-83
BKK III 25 07 40 51.8–.90 21N–6.0 100E–4.0 0 4.3,4.3 **¶16480786**
ISCJB III 25 07 40 52.5–.73 20.83N–.06 100.2E–.10 10 3.5s,3.4b
IDC III 25 07 40 53.4–1.1 20.86N 100.41E 0 4.7L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.8km s-min=6.7km az=21.2.
IDC Error ellipse: s-maj=36.0km s-min=19.8km az=73.0.

ISC III 25 08 28 23.2–1.2 20.47N–.06 100.08E–.07 10 3.4b 29 2-65
BKK III 25 08 28 18.2–.80 21N–5.0 100E–5.0 10 4.4b,4.2 **¶16480790**
IDC III 25 08 28 21.9–1.2 20.68N 99.65E 0 3.7L,3.5
PLV III 25 08 28 25.1–1.2 20.26N 100.31E 17–265 3.9L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=14.1km az=90.0.
PLV Error ellipse: s-maj=40.1km s-min=18.4km az=-1.0.

BKK III 25 14 21 39.7–2.5 21N–10 100E–8.0 23–42 3.6,3.6 ¶16852328
BKK III 25 16 12 58.2–1.0 21N–7.0 100E–5.0 54–38 3.6,3.6 ¶16852383

ISC III 25 22 57 54.9–.91 20.76N–.06 100.09E–.05 10 31 2-30
BKK III 25 22 57 49.4–.80 21N–5.0 100E–4.0 10 4.2b,4.2 **¶16480921**
PLV III 25 22 57 53.5–1.3 20.65N 100.23E 7–9 3.7L,4.2
IDC III 25 22 57 54.4–1.6 20.70N 99.99E 0 3.6L,3.4
ISC Event type ke.
PLV Error ellipse: s-maj=11.5km s-min=10.5km az=-1.0.
IDC Error ellipse: s-maj=23.6km s-min=14.5km az=102.0.

ISC III 26 05 57 31.1–.27 20.71N–.03 100.11E–.03 10 4.7b,4.4s 300 2-149
ISCJB III 26 05 57 29.0–.14 20.75N–.02 100.17E–.02 10 4.7b,4.4s **¶16452785**
IDC III 26 05 57 28.9–.47 20.74N 100.16E 0 4.4,4.3
BJI III 26 05 57 28.7 20.67N 100.26E 9 5.1s,5.0L
PLV III 26 05 57 29.4–1.1 20.68N 100.24E 2–5 5.4L,5.0L
BKK III 26 05 57 30.8–1.1 21N–9.0 100E–5.0 0 5.3b,5.3
MOS III 26 05 57 31.6–1.0 20.75N 100.13E 27 4.9b,5.3
NEIC III 26 05 57 33.4–1.5 20.74N 100.11E 28–11 4.8b,5.3
GCMT III 26 05 57 33.4–.20 20.68N 100.29E 15–1 5.0W,5.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.6km s-min=2.5km az=36.5.
IDC Error ellipse: s-maj=13.8km s-min=10.4km az=106.0.
PLV Error ellipse: s-maj=6.1km s-min=7.0km az=-1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.0km az=100.6.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.8km az=78.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c24; s90,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.77±.13 $M_{\theta\theta}$-2.78±.09; $M_{\phi\phi}$3.54±.13; $M_{r\theta}$0.09±.20; $M_{\theta\phi}$1.26±.10; $M_{\phi r}$-0.83±.25; Best double couple: NP1:ϕ_s146.00000°,δ88.00000°,λ168.00000°. NP2:ϕ_s236.00000°,δ79.00000°,λ2.00000°. Principal axes: T 3.9190,Plg10.0000°,Azm101.0000°; N -0.8750,Plg78.0000°,Azm315.0000°; P -3.0500,Plg6.0000°,Azm192.0000° $M_0$3.48500×10^{16}

ISC III 26 20 25 48.6–1.2 20.77N–.06 100.04E–.07 10 25 2-6
ISCJB III 26 20 25 47.1–.70 20.72N–.05 100.27E–.05 10 **¶16852456**
PLV III 26 20 25 48.6–1.1 20.61N 100.30E 5–12 3.9L
BKK III 26 20 25 50.9–2.2 20N–13 100E–4.0 10–24 6.0b,5.6
ISC Event type ke.
ISCJB Event type ke.

ISC III 26 20 49 41.8–.54 20.59N–.04 100.13E–.04 10 3.8b 73 2-72
ISCJB III 26 20 49 40.0–.25 20.76N–.02 100.10E–.03 10 3.8b,3.4s **¶16481070**
BKK III 26 20 49 40.4–.60 21N–5.0 100E–3.0 0 5.0b,4.8
IDC III 26 20 49 41.1–.80 20.64N 100.04E 0 4.2L,3.9
NEIC III 26 20 49 43.0–.63 20.57N 99.82E 10 4.3b,3.9
PLV III 26 20 49 42.7–2.0 20.60N 100.24E 7–13 4.4L,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.3km az=42.6.
IDC Error ellipse: s-maj=23.8km s-min=12.1km az=96.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=9.0km az=97.0.
PLV Error ellipse: s-maj=13.7km s-min=21.7km az=-1.0.

ISC III 28 20 47 26.8–1.8 20.65N–.07 100.22E–.07 8–14 25 0-5
BKK III 28 20 47 25.1–.90 21N–7.0 100E–5.0 10 4.2,4.0 **¶16852526**
PLV III 28 20 47 29.1–1.6 20.50N 100.36E 11–12 3.9L,4.0
ISC Event type ke.
PLV Error ellipse: s-maj=21.0km s-min=15.1km az=-1.0.

BKK IV 05 19 08 04.0–.90 20N–6.0 100E–5.0 0 3.6,3.6 ¶16852626
BKK IV 07 18 35 40.2–1.0 21N–5.0 101E–4.0 17–7 3.8,3.8 ¶16444202

ISC IV 20 04 11 32.2–1.6 20.77N–.09 100.13E–.09 10 12 1-3
ISCJB IV 20 04 11 30.9–1.0 20.81N–.07 100.18E–.06 10 **¶16853000**
BKK IV 20 04 11 31.6–1.3 21N–7.0 100E–9.0 7–9 4.6,4.6
PLV IV 20 04 11 36.4–1.0 21.64N 100.29E 23–978 3.9L,4.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.6km az=142.1.
PLV Error ellipse: s-maj=68.7km s-min=17.9km az=-1.0.

ISC V 07 13 01 58.0–.63 20.84N–.03 103.19E–.03 10 3.9b 40 1-64
BKK V 07 13 01 37.4–1.3 22N–33 104E–25 10 5.1b,5.0 **¶16684756**
ISCJB V 07 13 01 57.5–.37 20.83N–.03 103.31E–.03 10 3.9b,2.7s
IDC V 07 13 01 57.7–.90 20.68N 103.27E 0 3.9b,3.9
PLV V 07 13 01 57.1–.79 20.80N 103.19E 2–4 3.8L,3.9
NEIC V 07 13 01 59.3–.60 20.97N 103.68E 10 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=4.4km az=44.2.
IDC Error ellipse: s-maj=21.3km s-min=16.8km az=62.0.
PLV Error ellipse: s-maj=2.7km s-min=4.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=10.4km az=55.0.
BKK V 22 04 00 32.9–1.2 21N–6.0 100E–6.0 10 3.8 ¶16854654

ISC VI 29 08 26 39.0–.79 20.79N–.03 103.42E–.03 10 3.6b 24 1-51
ISCJB VI 29 08 26 37.7–.58 20.82N–.03 103.50E–.04 10 3.7b **¶17207180**
PLV VI 29 08 26 38.5–2.3 20.80N 103.45E 0–12 3.6L
IDC VI 29 08 26 39.0–1.4 20.93N 103.51E 0 3.7,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=138.8.
PLV Error ellipse: s-maj=4.4km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=32.3km s-min=25.1km az=68.0.

(736) Vietnam.

PLV IV 28 02 01 50.4–1.4 21.97N 103.46E 14–15 3.6L ¶601751335
PLV Error ellipse: s-maj=2.8km s-min=3.4km az=-1.0.

SEISMIC REGION 26.
India-Xizang-Szechwan-Yunnan.

(302) Eastern Kashmir.

ISC I 19 20 30 13.3–1.7 34.9N–.10 77.7E–.20 21 3.3s,3.2b 6 12-50
IDC I 19 20 30 10.2–2.1 34.86N 77.72E 0 3.4,3.4b **¶17190578**
ISCJB I 19 20 30 12.1–1.3 34.97N–.10 77.8E–.20 21 3.3s,3.2b
ISC Event type ke.
ISCJB Event type ke.

ISC II 14 06 08 05.2–.70 35.08N–.05 77.3E–.10 21 3.8b 22 4-82
IDC II 14 06 08 01.1–1.8 35.04N 77.06E 0 3.7,3.6 **¶17192225**
ISCJB II 14 06 08 02.5–.54 35.08N–.05 77.3E–.10 21 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.

IDC III 10 04 35 28.9–2.1 35.06N 75.20E 0 3.9L,3.8 ¶17193604
IDC Error ellipse: s-maj=54.1km s-min=29.6km az=148.0.

ISC IV 17 09 27 03.7–.80 35.12N–.07 75.1E–.20 35 3.4b 15 3-69
IDC IV 17 09 26 58.1–2.4 35.19N 74.90E 0 3.5,3.5b **¶16707182**
ISCJB IV 17 09 27 01.7–.67 35.12N–.06 75.0E–.20 35 3.4b,3.5b
NNC IV 17 09 27 06.3–3.3 35.15N 73.26E 0 3.7b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=63.7km s-min=27.2km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=6.1km az=162.0.
NNC Event type se. Error ellipse: s-maj=61.8km s-min=24.8km az=90.0.

ISC V 18 14 21 55.4–.73 33.84N–.05 75.4E–.10 35 3.5b 29 2-143
IDC V 18 14 21 49.5–1.6 33.58N 75.27E 0 3.7,3.6 **¶16710189**
ISCJB V 18 14 21 53.2–.57 33.85N–.05 75.5E–.10 33 3.4b,3.6
NDI V 18 14 21 58.5–2.0 33.28N 77.55E 10 3.0L,3.6
NNC V 18 14 22 05.0–9.7 34.37N 75.14E 233–349 3.5,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=48.3km s-min=19.5km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=4.6km az=162.7.
NDI Error ellipse: s-maj=17.2km s-min=11.6km az=-1.0.
NNC Event type se. Error ellipse: s-maj=103.1km s-min=47.5km az=21.0.

ISC VI 20 02 38 27.9–.70 35.10N–.06 75.5E–.10 35 4.1s,3.5b 19 3-87

IDC	VI	20 02 38 21.6–1.1	34.95N	75.42E	0	4.1,4.1s		¶17206568
ISCJB	VI	20 02 38 25.4–.66	35.09N–.06	75.4E–.10	33	4.2s,3.5b		
NNC	VI	20 02 38 27.2–5.2	35.20N	75.01E	0	3.8,3.5b		
ISC	Event type se.							
IDC	Error ellipse: s-maj=26.0km s-min=24.8km az=162.0.							
ISCJB	Event type se. Error ellipse: s-maj=17.5km s-min=7.5km az=161.9.							
NNC	Event type se. Error ellipse: s-maj=152.5km s-min=40.9km az=70.0.							
ISC	**VI**	**21 02 04 14.4–.38**	**35.17N–.04**	**75.50E–.04**	**35**	**4.5b,4.1s**	**193**	**2-95**
ISCJB	VI	21 02 04 12.7–.19	35.14N–.02	75.49E–.03	33	4.4s,4.4b		¶17206644
MOS	VI	21 02 04 13.5–1.1	35.15N	75.51E	39	4.6b,4.4b		
NEIC	VI	21 02 04 15.9–.92	35.15N	75.49E	47–7	4.5b,4.4b		
IDC	VI	21 02 04 15.0–2.8	35.21N	75.44E	38–24	4.5,4.5s		
BJI	VI	21 02 04 15.2	35.01N	75.59E	58	4.6b,4.6s		
NNC	VI	21 02 04 18.4–3.9	35.32N	75.27E	61–23	4.4b,4.4		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=153.6.							
MOS	Error ellipse: s-maj=8.3km s-min=4.9km az=99.9.							
NEIC	Event type se. Error ellipse: s-maj=8.2km s-min=5.8km az=183.0.							
IDC	Error ellipse: s-maj=12.1km s-min=9.9km az=24.0.							
NNC	Event type se. Error ellipse: s-maj=39.0km s-min=22.8km az=17.0.							

(303) Kashmir-India border region.

ISC	**IV**	**28 09 53 01.5–1.6**	**33.18N–.04**	**76.63E–.06**	**2–10**	**4.2b**	**62**	**1-89**
IDC	IV	28 09 53 00.7–.68	32.99N	76.77E	0	4.2,4.1		¶16505561
ISCJB	IV	28 09 53 01.9–1.5	33.18N–.02	76.75E–.06	12–10	4.0b,4.1		
NDI	IV	28 09 53 02.8–2.1	33.15N	76.47E	10	3.8L,4.1		
NEIC	IV	28 09 53 02.5–.46	33.05N	76.82E	10	4.2b,4.1		
ISC	Event type se.							
IDC	Error ellipse: s-maj=20.0km s-min=13.1km az=48.0.							
ISCJB	Event type se. Error ellipse: s-maj=8.7km s-min=3.6km az=175.6.							
NDI	Error ellipse: s-maj=9.4km s-min=12.0km az=-1.0.							
NEIC	Event type se. Error ellipse: s-maj=11.9km s-min=7.0km az=56.0.							
ISC	**V**	**13 07 36 10.6–1.7**	**32.49N–.06**	**76.2E–.10**	**4–11**		**15**	**0-12**
ISCJB	V	13 07 36 08.3–1.6	32.58N–.05	76.3E–.10	2–10			¶601124554
NDI	V	13 07 36 11.6–2.3	32.44N	76.34E	10	3.9L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=18.8km s-min=5.7km az=161.4.							
NDI	Error ellipse: s-maj=15.3km s-min=12.3km az=-1.0.							

(304) Kashmir-Xizang border region.

ISC	**IV**	**14 00 59 44.1–1.0**	**33.9N–.10**	**78.4E–.10**	**10**	**3.5b**	**10**	**3-83**
IDC	IV	14 00 59 42.9–1.4	33.90N	78.41E	0	3.6,3.5		¶17200970
ISCJB	IV	14 00 59 43.6–.82	34.04N–.09	78.5E–.10	10	3.3b,3.5		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**IV**	**19 08 38 49.7–1.5**	**34.81N**	**79.69E**	**0**	**3.6,3.5**		¶17201484
IDC	Error ellipse: s-maj=39.3km s-min=23.7km az=60.0.							
ISC	**IV**	**21 23 23 55.4–1.3**	**35.56N–.09**	**79.5E–.30**	**100**		**11**	**8-45**
IDC	IV	21 23 23 49.9–3.9	35.84N	78.09E	0	3.6b,3.5		¶16462857
ISCJB	IV	21 23 23 53.6–1.1	35.54N–.06	79.3E–.30	100	3.4b,3.5		
ISC	Event type ke.							
ISCJB	Event type ke.							

(305) Western Xizang-India border region.

ISC	**II**	**09 04 07 52.8–.96**	**31.76N–.07**	**78.1E–.30**	**17**	**3.3b**	**10**	**1-78**
IDC	II	09 04 07 48.9–1.5	31.56N	77.93E	0	3.6,3.4		¶17191928
ISCJB	II	09 04 07 51.8–.69	31.85N–.06	78.3E–.20	17	3.3b,3.4		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**14 09 01 30.7–.45**	**30.54N–.05**	**79.18E–.04**	**24**	**3.9b**	**66**	**1-87**
ISCJB	III	14 09 01 29.5–.26	30.53N–.03	79.21E–.02	24	4.0b		¶17195116
DMN	III	14 09 01 30.8–.35	30.91N	79.18E	10	4.8L		
NDI	III	14 09 01 31.3–2.2	30.43N	79.13E	10	3.7L		
IDC	III	14 09 01 31.8–6.4	30.43N	79.11E	33–48	4.1L,4.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=11.5.							
DMN	Event type ke. Error ellipse: s-maj=21.4km s-min=6.3km az=33.0.							
NDI	Error ellipse: s-maj=5.7km s-min=9.9km az=-1.0.							
IDC	Error ellipse: s-maj=20.6km s-min=13.3km az=24.0.							
ISC	**IV**	**08 21 18 20.2–1.3**	**31.00N–.04**	**78.18E–.04**	**6–9**		**31**	**1-74**
IDC	IV	08 21 18 19.4–2.6	31.03N	78.27E	0	3.6b,3.5		¶17200287
NDI	IV	08 21 18 24.2–2.2	30.98N	77.97E	9–5	3.4L,3.5		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=105.6km s-min=33.0km az=66.0.							
NDI	Error ellipse: s-maj=5.3km s-min=9.0km az=-1.0.							
ISC	**V**	**04 20 57 18.4–.27**	**30.22N–.03**	**80.42E–.03**	**23**	**4.6b,4.2s**	**341**	**1-148**
IDC	V	04 20 57 15.1–.48	30.26N	80.43E	0	4.5,4.4		¶16495936
ISCJB	V	04 20 57 17.1–.14	30.26N–.02	80.40E–.02	23	4.5b,4.2s		
DMN	V	04 20 57 17.1–.52	30.46N	80.19E	10	5.0L,4.2s		
NDI	V	04 20 57 17.6–3.5	30.24N	80.46E	10	4.7L,4.6b		
MOS	V	04 20 57 18.2–1.0	30.31N	80.46E	30	4.7b,4.1s		
NEIC	V	04 20 57 19.3–2.5	30.32N	80.43E	25–18	4.6b,4.1s		
BJI	V	04 20 57 23.0	30.66N	80.79E	15	4.7b,4.6s		
NNC	V	04 20 57 25.6–4.2	30.76N	80.07E	40–31	4.8b,4.6s		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=12.1km s-min=10.2km az=49.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=25.5.							
DMN	Event type ke. Error ellipse: s-maj=20.3km s-min=10.6km az=27.0.							
NDI	Error ellipse: s-maj=8.7km s-min=8.1km az=-1.0.							
MOS	Error ellipse: s-maj=7.8km s-min=4.5km az=117.6.							
NEIC	Event type se. Error ellipse: s-maj=7.6km s-min=5.0km az=206.0.							
NNC	Event type se. Error ellipse: s-maj=32.8km s-min=28.9km az=62.0.							
ISC	**V**	**08 12 32 16.9–.80**	**30.30N–.08**	**80.33E–.05**	**11**	**3.3b**	**20**	**1-87**
IDC	V	08 12 32 12.8–1.6	29.93N	79.94E	0	3.6,3.6L		¶17203047
ISCJB	V	08 12 32 15.2–.60	30.25N–.05	80.39E–.05	11	3.3b,3.6L		
NDI	V	08 12 32 19.7–2.1	30.42N	80.22E	10	3.2L,3.6L		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=54.1km s-min=18.8km az=64.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=5.4km az=161.2.							
NDI	Error ellipse: s-maj=9.1km s-min=13.8km az=-1.0.							
ISC	**V**	**13 14 40 55.8–1.3**	**31.09N–.04**	**78.22E–.04**	**10–9**	**3.6b**	**35**	**1-76**
IDC	V	13 14 40 53.9–.98	30.93N	78.07E	0	3.8,3.7b		¶17203554
ISCJB	V	13 14 40 56.3–.93	31.11N–.03	78.24E–.05	22–7	3.6b,3.7b		
NDI	V	13 14 40 57.2–6.2	31.01N	78.26E	10	3.2L,3.7b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=41.4km s-min=19.1km az=57.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=5.1km az=173.9.							
NDI	Error ellipse: s-maj=12.6km s-min=16.3km az=-1.0.							
ISC	**VI**	**20 06 27 19.9–.46**	**30.55N–.03**	**79.32E–.02**	**27–3**	**4.8b,3.9s**	**388**	**0-142**
BJI	VI	20 06 27 14.6	30.38N	79.19E	8	4.8b,4.7b		¶16638796
IDC	VI	20 06 27 15.6–.44	30.50N	79.33E	0	4.6,4.6b		
ISCJB	VI	20 06 27 18.2–.48	30.57N–.02	79.35E–.02	25–3	4.7b,3.9s		
NEIC	VI	20 06 27 18.4–1.9	30.61N	79.34E	14–11	4.9b,3.9s		
NDI	VI	20 06 27 18.9–2.5	30.41N	79.36E	12–6	4.9b,4.9L		
MOS	VI	20 06 27 19.9–1.3	30.70N	79.32E	33	4.9b,4.9L		
DMN	VI	20 06 27 19.6–.31	30.50N	79.12E	10	5.2L,4.9L		
NNC	VI	20 06 27 28.5–2.8	31.10N	78.90E	44–23	4.7b,4.9L		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=12.5km s-min=10.0km az=29.0.							
ISCJB	Event type fe. Error ellipse: s-maj=4.0km s-min=2.4km az=25.6.							
NEIC	Event type fe. Error ellipse: s-maj=5.1km s-min=4.2km az=200.0. Felt [III] at Chandigarh, Dehra Dun and Gurgaon; [II] at Delhi and Noida. Also felt at Faridabad, Gopeshwar, New Delhi, Rishikesh, Shimla, Tehri and Tigri.							
NDI	Error ellipse: s-maj=4.6km s-min=5.5km az=-1.0.							
MOS	Error ellipse: s-maj=7.9km s-min=4.2km az=108.9.							
DMN	Event type ke. Error ellipse: s-maj=21.7km s-min=5.9km az=30.0.							
NNC	Event type se. Error ellipse: s-maj=35.7km s-min=17.4km az=79.0.							

(306) Xizang.

ISC	**I**	**02 14 24 56.0–.57**	**32.83N–.08**	**88.47E–.08**	**10**	**3.9b,3.5s**	**44**	**4-150**
BJI	I	02 14 24 50.8	33.15N	87.97E	6	3.8b,3.8s		¶15906830
IDC	I	02 14 24 53.5–.71	32.63N	88.41E	0	3.9,3.8		
ISCJB	I	02 14 24 54.5–.32	32.85N–.03	88.57E–.07	10	3.8b,3.5s		
NEIC	I	02 14 24 59.4–.43	32.75N	88.44E	35	4.1b,3.5s		
ISC	Event type se.							
IDC	Error ellipse: s-maj=22.3km s-min=14.0km az=40.0.							
ISCJB	Event type se. Error ellipse: s-maj=8.1km s-min=4.6km az=5.3.							
NEIC	Event type se. Error ellipse: s-maj=12.0km s-min=6.6km az=49.0.							
ISC	**I**	**03 12 29 24.6–.77**	**32.97N–.09**	**91.5E–.10**	**10**	**3.6b**	**20**	**6-83**
ISCJB	I	03 12 29 22.4–.53	32.98N–.05	91.48E–.08	10	3.5b,3.1s		¶16150386
IDC	I	03 12 29 22.5–.93	32.78N	91.08E	0	3.7,3.5		
BJI	I	03 12 29 25.6	32.89N	91.45E	6	4.1b,3.9L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.7km s-min=7.0km az=26.0.							
IDC	Error ellipse: s-maj=38.9km s-min=17.5km az=62.0.							
ISC	**I**	**08 15 24 26.4–.99**	**31.3N–.10**	**86.6E–.10**	**10**	**4.0b**	**12**	**4-79**
ISCJB	I	08 15 24 25.0–.78	31.3N–.10	86.3E–.20	10	3.7b,2.0s		¶17189706
IDC	I	08 15 24 25.2–.91	31.22N	86.23E	0	3.8,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=27.0km s-min=11.5km az=148.5.							
IDC	Error ellipse: s-maj=34.7km s-min=17.7km az=57.0.							
ISC	**I**	**10 00 58 10.5–1.0**	**28.2N–.20**	**88.0E–.20**	**71**	**3.4b**	**14**	**19-88**
IDC	I	10 00 58 01.2–.86	28.12N	87.97E	0	3.7,3.6		¶17189805
ISCJB	I	10 00 58 08.6–.78	28.2N–.10	88.0E–.20	71	3.6b,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**10 09 46 17.0–1.0**	**35.7N–.10**	**89.3E–.10**	**10**	**3.4b**	**9**	**8-81**
ISCJB	I	10 09 46 15.2–.91	35.8N–.10	89.5E–.20	10	3.3b		¶17189839
IDC	I	10 09 46 15.8–1.1	35.52N	89.14E	0	3.6,3.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=25.7km s-min=12.2km az=138.0.							
IDC	Error ellipse: s-maj=35.4km s-min=25.8km az=46.0.							
ISC	**I**	**12 21 50 47.6–.86**	**35.6N–.10**	**88.5E–.10**	**35**	**4.1b**	**18**	**12-73**
IDC	I	12 21 50 42.6–.84	35.47N	88.45E	0	4.2,4.1		¶16019202
ISCJB	I	12 21 50 45.5–.64	35.59N–.09	88.5E–.10	33	4.0b,4.1		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**12 21 56 48.1–.94**	**35.7N–.10**	**88.5E–.10**	**35**	**3.6b**	**12**	**12-73**
IDC	I	12 21 56 43.2–1.0	35.58N	88.54E	0	3.8,3.7		¶17190022
ISCJB	I	12 21 56 45.5–.73	35.71N–.10	88.5E–.10	33	3.5b,3.7		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**12 22 59 00.4–.96**	**35.7N–.20**	**88.5E–.20**	**35**	**3.6b**	**11**	**12-80**
IDC	I	12 22 58 56.3–.90	35.43N	88.26E	0	3.8,3.7b		¶602426837
ISCJB	I	12 22 58 58.6–.74	35.7N–.10	88.6E–.20	35	3.5b,3.7b		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**13 17 24 04.1–2.9**	**34.2N–.30**	**83.7E–.20**	**35**	**3.6b**	**12**	**11-52**
IDC	I	13 17 23 58.6–3.8	34.02N	83.47E	0	3.6,3.6b		¶16019208
ISC	Event type ke.							
IDC	Error ellipse: s-maj=66.4km s-min=34.1km az=169.0.							
ISC	**I**	**15 09 06 23.8–.93**	**31.1N–.10**	**86.6E–.20**	**26**	**3.8b**	**13**	**15-85**
IDC	I	15 09 06 19.9–1.0	31.08N	86.53E	0	3.8,3.6		¶16019223
ISCJB	I	15 09 06 22.3–.77	31.2N–.10	86.5E–.20	26	3.6b,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**17 17 51 30.0–1.1**	**34.6N–.10**	**81.1E–.20**	**35**	**3.4b**	**10**	**10-82**
ISCJB	I	17 17 51 27.6–.74	34.64N–.10	80.8E–.20	33	3.3b		¶17190419
IDC	I	17 17 51 31.4–4.7	34.66N	80.85E	53–43	3.4,3.3		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=22.5km s-min=12.1km az=156.3.							
IDC	Error ellipse: s-maj=39.0km s-min=16.8km az=47.0.							
IDC	**I**	**18 05 48 21.9–4.9**	**32.35N**	**84.83E**	**0**	**3.4,3.3**		¶17190455
IDC	Error ellipse: s-maj=83.1km s-min=57.8km az=33.0.							
ISC	**I**	**21 03 09 31.6–1.3**	**34.1N–.20**	**88.1E–.20**	**35**	**3.4b**	**8**	**13-82**
IDC	I	21 03 09 26.2–1.2	33.92N	88.00E	0	3.4,3.3b		¶15967339
ISCJB	I	21 03 09 29.7–1.2	34.1N–.10	88.0E–.20	33	3.3b,3.1s		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**27 07 28 07.5–1.2**	**34.8N–.20**	**89.5E–.30**	**35**	**3.6b**	**10**	**13-81**
IDC	I	27 07 28 02.9–1.4	34.74N	89.74E	0	3.8,3.5L		¶17191087
ISCJB	I	27 07 28 04.8–.95	34.7N–.10	89.3E–.20	33	3.4b,3.5L		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**01 01 33 15.8–.68**	**30.24N–.08**	**96.76E–.09**	**35**	**3.8b**	**26**	**6-88**
IDC	II	01 01 33 11.2–.82	30.39N	96.92E	0	3.7,3.6		¶16001761
ISCJB	II	01 01 33 13.7–.55	30.28N–.07	96.76E–.07	33	3.7b,3.6		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**01 18 08 16.4–1.1**	**29.90N–.10**	**90.5E–.10**	**8**		**14**	**4-40**
IDC	II	01 18 08 15.0–3.4	29.73N	90.49E	0	3.7b,3.6		¶17191498
ISC	Event type ke.							
IDC	Error ellipse: s-maj=74.0km s-min=36.1km az=60.0.							
IDC	**II**	**01 20 12 20.6–1.1**	**30.28N**	**97.00E**	**0**	**3.4,3.2**		¶17191510
IDC	Error ellipse: s-maj=56.8km s-min=19.3km az=56.0.							
ISC	**II**	**04 22 55 16.1–.86**	**34.4N–.10**	**80.6E–.20**	**10**	**3.6b**	**13**	**7-83**
IDC	II	04 22 55 10.3–3.3	33.94N	81.24E	0	3.6,3.6b		¶17191700
ISCJB	II	04 22 55 14.2–.61	34.44N–.08	80.7E–.20	10	3.6b,3.4s		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**II**	**06 09 16 26.5–1.7**	**32.07N**	**87.66E**	**0**	**3.5,3.4**		¶16019433
IDC	Error ellipse: s-maj=55.9km s-min=25.3km az=64.0.							
ISC	**II**	**07 15 40 55.6–.77**	**28.04N–.06**	**87.87E–.06**	**71**	**3.9b**	**36**	**1-68**
IDC	II	07 15 40 46.3–1.1	27.85N	87.75E	0	3.9,3.8		¶16328762
BJI	II	07 15 40 47.2	27.87N	87.95E	10	3.9b,3.8		
ISCJB	II	07 15 40 54.7–.47	28.12N–.04	87.90E–.04	71	3.7b,3.8		
DMN	II	07 15 40 55.3–.00	28.00N	88.01E	60	3.7b,3.8		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=51.2km s-min=15.8km az=58.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.2km s-min=5.1km az=141.3.							
DMN	Event type ke.							
ISC	**II**	**13 04 15 50.8–1.1**	**30.6N–.20**	**86.0E–.20**	**35**	**3.5b**	**11**	**7-86**
IDC	II	13 04 15 45.5–.95	30.56N	85.95E	0	3.7,3.5		¶16031741
ISCJB	II	13 04 15 48.7–.83	30.5N–.10	85.9E–.20	33	3.5b,3.5		
ISC	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**13 19 35 47.6–1.5**	**32.5N–.10**	**84.8E–.30**	**35**		**9**	**5-22**
IDC	II	13 19 35 07.3–19	28.97N	82.70E	0	3.2,3.2		¶17192168
ISC	Event type ke.							
IDC	Error ellipse: s-maj=315.0km s-min=70.5km az=28.0.							
ISC	**II**	**15 16 29 36.7–1.3**	**31.0N–.20**	**83.5E–.30**	**11**	**3.6b**	**12**	**16-86**
ISCJB	II	15 16 29 34.4–.97	30.9N–.10	83.4E–.20	11	3.5b		¶17192312
IDC	II	15 16 29 34.7–1.1	30.93N	83.42E	0	3.7,3.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=31.7km s-min=12.1km az=149.3.							
IDC	Error ellipse: s-maj=43.0km s-min=16.3km az=58.0.							
ISC	**II**	**16 17 25 26.0–.35**	**32.44N–.05**	**85.10E–.03**	**16**	**4.2b,4.0s**	**82**	**5-122**
IDC	II	16 17 25 22.6–.63	32.42N	85.26E	0	4.1,4.0		¶16301856
ISCJB	II	16 17 25 24.9–.23	32.58N–.03	85.18E–.04	16	4.1b,4.0s		
BJI	II	16 17 25 26.0	32.63N	85.29E	6	4.7b,4.5s		
NEIC	II	16 17 25 30.0–1.1	32.53N	85.19E	53–11	4.2b,4.5s		
NDI	II	16 17 25 29.2–3.0	32.28N	85.35E	33	4.2b,4.1L		
ISC	Event type se.							
IDC	Error ellipse: s-maj=16.5km s-min=13.1km az=33.0.							
ISCJB	Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=148.0.							
NEIC	Event type se. Error ellipse: s-maj=11.0km s-min=6.4km az=46.0.							
NDI	Error ellipse: s-maj=32.7km s-min=16.0km az=-1.0.							
IDC	**II**	**16 17 30 42.0–1.3**	**32.29N**	**85.03E**	**0**	**3.4,3.4b**		

¶17192377
IDC Error ellipse: s-maj=39.7km s-min=25.8km az=76.0.
ISC II 17 05 59 47.1–.75 32.81N–.06 92.0E–.10 14 3.6b 13 3-83
ISCJB II 17 05 59 44.7–.60 32.81N–.05 92.0E–.10 14 3.4b,3.2s ¶16398388
IDC II 17 05 59 45.0–.99 32.99N 92.23E 0 3.6,3.4
BJI II 17 05 59 46.2 32.91N 91.92E 10 3.7b,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=6.6km az=6.6.
IDC Error ellipse: s-maj=38.7km s-min=19.2km az=62.0.
ISC II 22 18 25 58.1–.42 32.83N–.05 90.50E–.05 35 4.2b,3.6s 85 3-151
IDC II 22 18 25 51.8–.65 32.56N 90.26E 0 4.2,4.0 ¶16118182
BJI II 22 18 25 52.5 32.81N 90.49E 6 4.4b,4.3b
ISCJB II 22 18 25 57.0–.24 32.87N–.03 90.27E–.05 33 4.2b,3.7s
MOS II 22 18 25 56.0–1.9 32.72N 90.48E 33 4.3b,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=20.2km s-min=14.1km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=0.5.
MOS Error ellipse: s-maj=11.1km s-min=5.8km az=107.5.
ISC II 23 03 28 23.4–.73 32.19N–.08 85.0E–.10 10 4.2s,3.6b 18 4-118
DMN II 23 03 28 21.6–3.8 32.72N 84.94E 336–40 4.0b,3.6b ¶16158437
IDC II 23 03 28 23.3–.89 32.41N 85.25E 0 4.6L,4.2
ISC Event type ke.
DMN Event type ke. Error ellipse: s-maj=122.4km s-min=18.5km az=3.0.
IDC Error ellipse: s-maj=31.5km s-min=19.2km az=58.0.
ISC II 25 05 38 34.3–1.4 34.7N–.20 86.4E–.40 35 3.5b 7 12-73
IDC II 25 05 38 29.3–1.2 34.49N 86.07E 0 3.7,3.6 ¶17192818
ISCJB II 25 05 38 32.2–.94 34.6N–.10 86.2E–.20 33 3.5b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC II 26 10 34 49.8–.65 33.02N–.07 84.95E–.09 35 3.6b,3.2s 23 5-84
IDC II 26 10 34 43.9–.87 32.83N 84.85E 0 3.7,3.6 ¶16301916
ISCJB II 26 10 34 47.8–.42 33.03N–.05 85.0E–.10 33 3.5b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC II 26 22 56 43.9–1.2 32.58N 85.10E 0 4.2L,3.8
¶17192921
IDC Error ellipse: s-maj=56.4km s-min=30.4km az=41.0.
ISC II 27 10 21 26.7–1.5 28.7N–.10 88.5E–.10 35 3.2b 9 3-35
IDC II 27 10 21 21.5–12 28.76N 88.69E 0 3.7L,3.6s ¶17192944
ISCJB II 27 10 21 24.1–1.1 28.63N–.09 88.42E–.09 33 3.6s,3.2b
ISC Event type ke.
ISCJB Event type ke.
ISC II 28 16 32 25.9–.78 32.82N–.06 92.3E–.10 10 3.9b 18 3-83
ISCJB II 28 16 32 23.8–.59 32.93N–.05 92.32E–.10 10 3.6b,3.3s ¶16388248
IDC II 28 16 32 23.2–1.0 32.75N 91.84E 0 3.7,3.6
BJI II 28 16 32 25.5 32.86N 92.13E 10 3.9b,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.5km az=13.7.
IDC Error ellipse: s-maj=40.4km s-min=18.0km az=63.0.
ISC III 04 01 01 12.8–.53 32.22N–.06 94.56E–.08 35 4.0b,3.6s 44 4-85
IDC III 04 01 01 07.3–.72 32.18N 94.63E 0 4.0,3.8 ¶16293989
ISCJB III 04 01 01 10.5–.39 32.14N–.04 94.58E–.06 33 4.0b,3.6s
BJI III 04 01 01 11.6 32.03N 94.62E 7 3.9b,3.7L
NEIC III 04 01 01 13.2–.94 32.21N 94.74E 41–10 4.1b,3.7L
ISC Event type se.
IDC Error ellipse: s-maj=28.2km s-min=14.4km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.3km az=19.5.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.1km az=66.0.
ISC III 05 19 24 41.4–.45 32.98N–.05 92.08E–.04 14 4.1b,3.1s 72 3-83
IDC III 05 19 24 38.4–.72 32.84N 91.95E 0 3.9b,3.9 ¶16196692
ISCJB III 05 19 24 39.2–.25 32.95N–.03 92.15E–.03 14 4.1b,3.2s
BJI III 05 19 24 41.2 32.83N 92.27E 10 4.4b,4.3b
NEIC III 05 19 24 43.0–2.3 32.94N 92.14E 30–19 4.1b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=28.7km s-min=14.4km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=4.0km az=160.2.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=5.7km az=58.0.
ISC III 17 09 19 41.7–1.8 34.2N–.20 80.5E–.30 35 3.6b 8 13-83
IDC III 17 09 19 35.8–2.2 34.11N 80.59E 0 3.8,3.7 ¶17196666
ISC Event type ke.
IDC Error ellipse: s-maj=49.6km s-min=35.3km az=119.0.
ISC III 21 09 35 03.2–.86 32.63N–.10 91.8E–.10 35 3.6b 18 3-83
IDC III 21 09 34 56.9–.97 32.34N 91.51E 0 3.8s,3.8 ¶17197658
BJI III 21 09 35 01.5 32.52N 91.77E 6 3.8L,3.7s
ISCJB III 21 09 35 02.5–.92 32.72N–.07 91.5E–.20 33 4.2s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC III 22 23 41 45.4–1.2 31.6N–.20 91.4E–.20 35 3.4b 13 5-84
IDC III 22 23 41 36.8–2.4 31.09N 91.66E 0 3.6,3.4 ¶16462106
DMN III 22 23 42 04.3–7.5 30.76N 89.63E 10 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=55.0km s-min=41.0km az=147.0.
DMN Event type ke. Error ellipse: s-maj=191.0km s-min=20.9km az=47.0.
ISC III 23 01 48 18.6–.82 31.2N–.10 83.4E–.10 35 3.5b 13 3-86
DMN III 23 01 48 07.1–.74 31.81N 83.23E 25 4.6b ¶16462121
ISCJB III 23 01 48 16.9–.60 31.19N–.07 83.4E–.20 33 3.9s,3.5b
IDC III 23 01 48 25.2–8.2 31.25N 83.30E 95–74 3.9,3.9s
ISC Event type ke.
DMN Event type ke. Error ellipse: s-maj=19.0km s-min=14.7km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=8.2km az=161.1.
IDC Error ellipse: s-maj=38.1km s-min=32.9km az=21.0.
IDC III 25 06 34 06.8–1.1 31.66N 95.10E 0 3.7,3.7
¶17198463
IDC Error ellipse: s-maj=46.5km s-min=23.3km az=61.0.
ISC III 26 12 28 28.2–.72 32.5N–.10 85.2E–.10 16 3.8b 19 14-84
IDC III 26 12 28 25.7–.68 32.52N 85.13E 0 3.9,3.8 ¶16459598
ISCJB III 26 12 28 26.6–.58 32.56N–.09 85.2E–.10 16 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC III 31 06 09 09.6–1.0 33.6N–.10 81.4E–.20 46 3.6b 11 13-83
IDC III 31 06 09 03.2–.99 33.49N 81.33E 0 3.8,3.7 ¶17199258
ISCJB III 31 06 09 08.0–.87 33.7N–.10 81.6E–.20 46 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 10 56 15.1–5.4 34.34N 81.66E 0 3.6,3.4b
¶17199288
IDC Error ellipse: s-maj=199.4km s-min=32.3km az=65.0.
ISC III 31 19 02 19.8–.68 32.72N–.08 91.65E–.08 35 3.6b,3.4s 23 6-83
IDC III 31 19 02 12.9–.82 32.41N 91.74E 0 3.6,3.5 ¶16410004
BJI III 31 19 02 16.5 32.83N 91.76E 5 3.5L,3.5
ISCJB III 31 19 02 17.7–.48 32.70N–.05 91.70E–.08 33 3.5b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 08 12 20 24.2–1.4 32.1N–.30 86.2E–.40 35 3.5b 7 15-72
IDC IV 08 12 20 26.3–9.3 32.00N 86.30E 63–83 3.8L,3.5 ¶17200244
ISC Event type ke.
IDC Error ellipse: s-maj=102.0km s-min=17.5km az=53.0.
ISC IV 09 21 22 23.3–.88 30.1N–.10 96.9E–.10 35 3.7b 21 8-88
IDC IV 09 21 22 18.0–1.1 30.09N 97.03E 0 3.7,3.6 ¶17200378
ISCJB IV 09 21 22 20.7–.72 29.99N–.07 96.80E–.09 33 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 12 03 08.0–.45 30.05N–.06 96.97E–.04 10 4.3b,3.3s 69 5-88
ISCJB IV 12 12 03 06.2–.30 29.99N–.04 96.91E–.04 10 4.2b,3.5s ¶16418703
IDC IV 12 12 03 06.4–.61 30.03N 96.96E 0 4.2,4.1
BJI IV 12 12 03 09.9 29.97N 96.93E 23 4.4b,3.8s
NEIC IV 12 12 03 13.3–.89 30.04N 96.96E 49–9 4.2b,3.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.4km az=147.7.
IDC Error ellipse: s-maj=19.2km s-min=12.2km az=46.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.3km az=52.0.

ISC IV 12 12 12 07.9–.64 29.95N–.08 97.03E–.07 35 4.0b 30 5-118
IDC IV 12 12 12 03.0–.71 30.08N 97.10E 0 4.0,3.8 ¶16587474
ISCJB IV 12 12 12 05.5–.45 29.91N–.05 96.91E–.06 33 3.9b,3.8
BJI IV 12 12 12 05.7 30.01N 96.91E 7 3.4s,3.3
NEIC IV 12 12 12 06.8–2.9 30.01N 97.00E 26–21 4.1b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=13.5km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.9km az=138.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.3km az=55.0.
ISC IV 15 04 31 43.3–.89 32.2N–.10 85.0E–.20 10 3.7b 12 15-84
ISCJB IV 15 04 31 41.6–.73 32.3N–.10 85.0E–.20 10 3.7s,3.5b ¶17201087
IDC IV 15 04 31 41.8–.87 32.31N 85.02E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=12.1km az=149.6.
IDC Error ellipse: s-maj=29.0km s-min=18.4km az=53.0.
ISC IV 15 16 32 58.0–.81 30.1N–.10 96.9E–.10 35 3.5b 16 10-84
IDC IV 15 16 32 53.5–.91 30.25N 97.33E 0 3.6,3.5 ¶17201147
ISCJB IV 15 16 32 55.9–.66 30.02N–.09 96.80E–.08 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 18 22 19 54.3–8.2 29.90N 84.30E 0 3.8,3.8
¶17201450
IDC Error ellipse: s-maj=161.6km s-min=76.0km az=130.0.
ISC IV 19 16 27 28.1–.53 34.36N–.04 89.53E–.03 17–3 4.9b,4.0s 411 5-157
IDC IV 19 16 27 24.8–.48 34.23N 89.62E 0 4.7,4.6 ¶16447764
NEIC IV 19 16 27 26.8–.60 34.29N 89.58E 15–3 5.0b,4.6
ISCJB IV 19 16 27 26.0–.96 34.33N–.02 89.55E–.02 18–7 4.8b,4.0s
GCMT IV 19 16 27 26.8–.20 34.33N 89.72E 16–0 4.9W,4.0s
MOS IV 19 16 27 27.5–.84 34.27N 89.67E 30 5.1b,4.0s
BJI IV 19 16 27 28.3 34.30N 89.80E 10 4.8b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=15.2km s-min=11.3km az=33.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.7km az=220.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.0km az=40.3.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s33,c42; s73,c131; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.26±.16 $M_{\theta\theta}$-0.84±.09; $M_{\phi\phi}$3.11±.11; $M_{r\theta}$0.34±.32; $M_{\theta\phi}$1.38±.07; $M_{\phi r}$0.32±.27; Best double couple: NP1:ϕ_s209.00000°,δ50.00000°,λ-74.00000°. NP2:ϕ_s5.00000°,δ42.00000°,λ-108.00000°. Principal axes: T 3.5720,Plg4.0000°,Azm288.0000°; N -1.2310,Plg12.0000°,Azm18.0000°; P -2.3360,Plg77.0000°,Azm180.0000° $M_0$2.95400×10^{16}
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=117.2.
ISC IV 22 01 57 31.9–1.2 30.1N–.20 81.3E–.20 33 3.6b 13 14-87
IDC IV 22 01 57 26.8–1.2 29.95N 81.16E 0 3.9,3.9s ¶17201768
ISCJB IV 22 01 57 30.1–.99 30.1N–.10 81.4E–.20 33 3.8s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 24 02 22 52.2–.50 29.58N–.06 89.04E–.04 10 4.2b 57 2-84
ISCJB IV 24 02 22 50.8–.34 29.63N–.05 89.22E–.03 10 4.0b ¶16577874
IDC IV 24 02 22 50.3–.70 29.53N 89.16E 0 4.1,4.1L
DMN IV 24 02 23 00.1–.34 30.16N 89.00E 10 5.1L,4.1L
BJI IV 24 02 23 00.3 29.79N 89.51E 28 4.3b,4.2b
NEIC IV 24 02 23 01.9–1.0 29.66N 89.29E 95–9 4.0b,4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=173.7.
IDC Error ellipse: s-maj=26.5km s-min=14.2km az=51.0.
DMN Event type ke. Error ellipse: s-maj=14.0km s-min=6.4km az=148.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=6.0km az=222.0.
ISC IV 28 11 17 55.5–.54 32.05N–.07 83.84E–.08 35 3.7b,3.3s 32 4-98
IDC IV 28 11 17 49.3–.72 31.89N 83.89E 0 3.8,3.7 ¶16505562
ISCJB IV 28 11 17 54.1–.37 32.14N–.04 83.86E–.10 33 3.7b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 28 11 18 37.5–.65 32.1N–.10 84.3E–.10 35 4.0b 33 6-84
IDC IV 28 11 18 32.3–.66 32.04N 84.21E 0 4.1,3.9 ¶16708233
NEIC IV 28 11 18 33.9–.40 32.09N 84.19E 10 4.2b,3.9
ISCJB IV 28 11 18 35.4–.47 32.14N–.08 84.28E–.10 33 3.9b,3.6s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC V 02 20 28 17.4–.76 33.8N–.10 87.8E–.20 10 3.8b 15 5-82
ISCJB V 02 20 28 15.9–.69 33.79N–.09 87.8E–.20 10 3.8b ¶16577960
IDC V 02 20 28 16.2–.79 33.77N 87.72E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=10.3km az=155.9.
IDC Error ellipse: s-maj=29.3km s-min=15.8km az=60.0.
ISC V 09 06 29 54.5–.68 33.06N–.09 89.09E–.09 35 3.6b,3.3s 21 4-83
IDC V 09 06 29 48.3–.88 32.80N 89.11E 0 3.9,3.7 ¶17203108
ISCJB V 09 06 29 52.4–.48 33.02N–.06 89.19E–.10 33 3.6b,3.2s
BJI V 09 06 29 52.6 33.09N 89.15E 6 3.8s,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=24.9km s-min=17.4km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=6.9km az=26.3.
ISC V 14 02 07 17.2–.56 32.70N–.06 90.63E–.09 10 3.9b 27 3-87
ISCJB V 14 02 07 14.9–.46 32.60N–.04 90.76E–.08 10 3.8b ¶17203581
BJI V 14 02 07 17.0 32.75N 90.69E 10 4.1b,3.8L
IDC V 14 02 07 20.1–6.2 32.48N 90.71E 38–53 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.6km az=3.2.
IDC Error ellipse: s-maj=24.5km s-min=17.4km az=29.0.
ISC V 14 13 01 57.4–.96 34.1N–.10 83.3E–.20 35 3.6b,3.1s 14 13-83
IDC V 14 13 01 52.0–1.0 34.00N 83.25E 0 3.8,3.6 ¶16560063
ISCJB V 14 13 01 55.3–.78 34.1N–.10 83.3E–.20 33 3.6b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 17 44 36.4–.38 34.35N–.05 89.51E–.04 25 4.2b,3.6s 113 5-138
IDC V 20 17 44 31.7–.62 34.31N 89.62E 0 4.1,4.0 ¶16531570
BJI V 20 17 44 33.6 34.44N 89.62E 8 4.3b,4.1b
ISCJB V 20 17 44 34.0–.23 34.34N–.03 89.56E–.04 25 4.1b,3.6s
MOS V 20 17 44 35.6–1.5 34.38N 89.61E 33 4.5b,3.6s
NEIC V 20 17 44 36.0–2.1 34.40N 89.58E 26–15 4.1b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=13.9km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=4.2km az=26.4.
MOS Error ellipse: s-maj=10.4km s-min=6.5km az=114.4.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.4km az=49.0.
ISC V 24 12 51 59.3–.52 30.05N–.08 85.45E–.05 35 4.2b,3.5s 80 5-152
BJI V 24 12 51 54.6 30.17N 85.30E 10 4.6b,4.3b ¶16538124
ISCJB V 24 12 51 57.6–.35 30.03N–.05 85.44E–.04 33 4.2b,3.3s
NEIC V 24 12 52 00.1–.87 30.04N 85.39E 41–8 4.5b,3.3s
IDC V 24 12 52 01.0–4.5 30.06N 85.51E 51–39 4.1,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=3.8km az=31.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=220.0.
IDC Error ellipse: s-maj=20.5km s-min=13.2km az=34.0.
ISC V 24 14 03 46.6–.85 34.88N–.08 86.4E–.10 10 3.7b,3.3s 19 7-87
ISCJB V 24 14 03 43.9–.47 34.85N–.04 86.6E–.10 10 3.6b,3.3s ¶16637211
IDC V 24 14 03 43.6–.90 34.67N 86.55E 0 3.8,3.7
BJI V 24 14 03 43.7 34.91N 86.95E 7 3.9s,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=5.8km az=3.5.
IDC Error ellipse: s-maj=26.4km s-min=18.9km az=48.0.
ISC V 25 13 04 33.1–1.0 29.23N–.09 93.9E–.20 10 3.6b,3.3s 8 4-65
BJI V 25 13 04 27.2 29.33N 92.39E 7 3.8L,3.3s ¶17204451
ISCJB V 25 13 04 31.8–.76 29.27N–.09 93.9E–.20 10 3.5b,3.3s
IDC V 25 13 04 31.8–1.5 29.19N 93.98E 0 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.2km s-min=11.4km az=165.5.
IDC Error ellipse: s-maj=68.1km s-min=20.2km az=65.0.
ISC V 29 18 59 32.1–1.1 33.7N–.10 81.8E–.20 35 3.3b 9 6-76
IDC V 29 18 59 27.3–1.4 33.63N 81.83E 0 4.0,4.0s ¶17204720

ISCJB V 29 18 59 29.8–.94 33.67N–.10 81.9E–.30 33 4.0s,3.2b
ISC Event type ke.
ISCJB Event type ke.
IDC V 31 03 10 02.7–1.6 29.87N 85.10E 0 3.6,3.5
¶17204806
IDC Error ellipse: s-maj=49.4km s-min=25.7km az=42.0.
IDC VI 07 20 10 26.5–6.3 33.30N 88.20E 0 3.5,3.3
¶17205510
IDC Error ellipse: s-maj=364.9km s-min=26.3km az=68.0.
ISC VI 11 03 41 39.1–2.2 35.1N–.20 83.2E–.30 35 3.5b 6 12-76
IDC VI 11 03 41 33.6–2.7 35.06N 83.21E 0 3.6,3.5 **¶17205751**
ISCJB VI 11 03 41 37.5–1.9 35.2N–.20 83.2E–.30 33 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 05 59 58.0–1.2 33.8N–.20 89.1E–.20 35 8 14-69
IDC VI 22 05 59 52.9–1.6 33.72N 89.02E 0 3.9,3.8b **¶16720968**
ISCJB VI 22 05 59 55.6–1.0 33.8N–.10 89.1E–.30 33 3.9b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 09 22 56.8–.53 33.92N–.07 89.22E–.06 17 4.0b,3.3s 39 5-150
IDC VI 22 09 22 53.4–.68 33.77N 89.32E 0 4.1,4.0 **¶16720969**
ISCJB VI 22 09 22 54.9–.36 33.93N–.04 89.40E–.07 17 3.9b,3.2s
BJI VI 22 09 22 54.1 33.44N 89.59E 3 4.3b,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=13.6km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.8km az=8.7.
ISC VI 22 11 53 01.5–.69 33.66N–.09 89.32E–.06 35 4.1b 30 4-82
IDC VI 22 11 52 56.9–.73 33.81N 89.26E 0 4.1,4.0 **¶16720970**
BJI VI 22 11 52 58.8 33.57N 89.57E 8 4.1b,4.0L
ISCJB VI 22 11 52 59.9–.57 33.77N–.08 89.26E–.07 33 4.0b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 22 11 55 57.3–.34 33.82N–.04 89.21E–.04 35 4.5b,4.0s 194 4-150
IDC VI 22 11 55 51.5–.52 33.79N 89.26E 0 4.4,4.2 **¶16644201**
BJI VI 22 11 55 54.5 33.45N 89.59E 7 4.6b,4.3b
MOS VI 22 11 55 55.5–.92 33.92N 89.28E 37 4.6b,4.0s
ISCJB VI 22 11 55 55.4–.18 33.89N–.02 89.19E–.03 35 4.5b,3.9s
NEIC VI 22 11 55 57.2–.24 33.91N 89.22E 35 4.7b,3.9s
NDI VI 22 11 56 01.4–3.4 33.49N 88.93E 35 4.7b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=11.6km az=26.0.
MOS Error ellipse: s-maj=9.1km s-min=5.0km az=116.4.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.2km az=36.0.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=224.0.
NDI Error ellipse: s-maj=57.7km s-min=55.6km az=-1.0.
ISC VI 22 12 59 07.7–.73 33.52N–.09 89.32E–.07 35 3.7b,3.3s 21 10-76
IDC VI 22 12 59 03.1–.80 33.84N 89.45E 0 3.9,3.7 **¶17206756**
BJI VI 22 12 59 06.1 33.39N 89.64E 7 4.1b,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=15.8km az=48.0.
IDC VI 22 13 11 39.6–1.1 33.71N 89.15E 0 3.7,3.5b
¶17206757
IDC Error ellipse: s-maj=43.2km s-min=22.1km az=52.0.
ISC VI 22 13 45 27.3–.68 33.73N–.09 89.11E–.07 35 3.9b,3.5s 34 4-82
IDC VI 22 13 45 22.1–.73 33.75N 89.23E 0 4.1,3.9 **¶16720971**
BJI VI 22 13 45 24.8 33.43N 89.61E 7 4.3b,4.0L
ISCJB VI 22 13 45 25.2–.48 33.79N–.06 89.23E–.07 33 3.9b,3.4s
NEIC VI 22 13 45 27.6–.48 33.87N 89.24E 35 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=14.5km az=47.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=7.5km az=39.5.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=7.8km az=56.0.
ISC VI 22 15 48 26.9–.36 33.88N–.05 89.35E–.04 33 4.4b,3.8s 180 4-150
IDC VI 22 15 48 21.7–.51 33.83N 89.35E 0 4.4,4.3 **¶16644205**
BJI VI 22 15 48 24.2 33.56N 89.56E 6 4.8b,4.5L
ISCJB VI 22 15 48 25.5–.19 33.89N–.03 89.32E–.03 33 4.4b,3.7s
MOS VI 22 15 48 25.3–1.2 33.89N 89.45E 33 4.6b,3.7s
NEIC VI 22 15 48 27.4–.70 33.93N 89.33E 39–7 4.7b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=11.3km az=41.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.5km az=135.3.
MOS Error ellipse: s-maj=9.3km s-min=5.1km az=116.9.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.5km az=49.0.
IDC VI 22 17 24 09.3–1.1 33.74N 88.84E 0 3.5,3.4
¶17206769
IDC Error ellipse: s-maj=38.3km s-min=21.7km az=51.0.
ISC VI 23 04 42 58.4–.84 33.9N–.10 89.3E–.10 33 3.8b 14 14-71
IDC VI 23 04 42 53.8–.90 33.84N 89.30E 0 4.2,4.2s **¶17206800**
ISCJB VI 23 04 42 56.6–.68 33.94N–.10 89.3E–.10 33 4.2s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 23 04 50 04.8–.60 33.95N–.08 89.52E–.09 33 4.1b,3.5s 37 7-150
IDC VI 23 04 49 59.9–.68 33.85N 89.44E 0 4.1,4.1b **¶16720976**
ISCJB VI 23 04 50 03.1–.42 33.92N–.04 89.52E–.08 33 4.0b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 25 21 23 24.6–.84 28.3N–.10 87.59E–.08 35 3.7b 16 3-80
IDC VI 25 21 23 20.4–.90 28.51N 87.67E 0 3.8,3.7 **¶16683800**
ISCJB VI 25 21 23 23.5–.81 28.5N–.10 87.39E–.08 33 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
BJI VI 26 07 52 39.9 32.41N 95.84E 10 3.5L,3.5s
¶16683812
IDC VI 29 23 53 04.0–2.3 32.47N 95.59E 0 3.6,3.5
¶17207225
IDC Error ellipse: s-maj=69.3km s-min=36.4km az=78.0.

(307) Sichuan.

ISC I 03 20 23 42.1–.45 32.12N–.04 105.06E–.04 14 4.0b,3.2s 50 2-80
ISCJB I 03 20 23 40.3–.32 32.13N–.03 105.00E–.04 14 3.9b,3.3s **¶15906982**
IDC I 03 20 23 40.1–.64 32.13N 105.01E 0 4.0,3.9
NEIC I 03 20 23 41.9–.35 32.17N 105.03E 10 4.0b,3.9
BJI I 03 20 23 42.5 32.25N 104.95E 10 4.4b,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.1km az=34.2.
IDC Error ellipse: s-maj=20.5km s-min=13.8km az=59.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.0km az=48.0.
ISC I 13 15 16 26.4–.34 32.22N–.03 104.49E–.04 15 4.2b,3.6s 125 1-94
IDC I 13 15 16 23.0–.67 32.11N 104.56E 0 4.1,4.0 **¶16022166**
ISCJB I 13 15 16 24.2–.20 32.20N–.02 104.52E–.03 15 4.3b,3.5s
BJI I 13 15 16 26.3 32.21N 104.58E 17 4.3b,4.2L
NEIC I 13 15 16 28.7–.25 32.21N 104.48E 35 4.8b,4.2L
MOS I 13 15 16 30.5–1.5 32.11N 104.57E 77 4.3b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=14.1km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=3.0km az=164.3.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.0km az=218.0.
MOS Error ellipse: s-maj=15.4km s-min=7.7km az=101.4.
ISC I 15 06 32 47.8–.51 27.72N–.04 101.00E–.05 8 4.3s,4.1b 43 3-97
ISCJB I 15 06 32 45.4–.34 27.63N–.03 101.03E–.04 8 4.1s,4.0b **¶16007270**
IDC I 15 06 32 46.5–.65 27.73N 101.25E 0 4.1s,4.1
NEIC I 15 06 32 48.0–1.7 27.66N 101.17E 9–12 4.3b,4.1L
BJI I 15 06 32 48.0 27.64N 100.88E 10 4.2b,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.9km az=146.1.
IDC Error ellipse: s-maj=22.6km s-min=13.0km az=68.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.1km az=86.0.
ISC I 15 13 22 07.4–1.0 30.99N–.05 103.53E–.07 16 3.5b 12 0-82
ISCJB I 15 13 22 06.3–.93 31.06N–.06 103.54E–.09 16 3.1b **¶16395927**
BJI I 15 13 22 07.2 30.95N 103.38E 15 3.4L
IDC I 15 13 22 07.2–2.2 31.46N 104.03E 0 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.6km az=152.2.
IDC Error ellipse: s-maj=56.8km s-min=40.5km az=82.0.
ISC I 15 23 56 19.1–1.2 31.7N–.10 104.5E–.30 9 3.3b 7 14-59
ISCJB I 15 23 56 17.0–1.1 31.69N–.10 104.5E–.30 9 3.3b **¶17190281**
IDC I 15 23 56 17.7–1.2 31.71N 104.50E 0 3.6,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.6km s-min=13.9km az=176.1.
IDC Error ellipse: s-maj=59.2km s-min=20.9km az=63.0.
ISC I 16 00 30 15.0–.39 31.85N–.03 104.55E–.04 15 4.3b,3.5s 81 1-148
ISCJB I 16 00 30 12.8–.28 31.90N–.03 104.57E–.04 15 4.2b,3.6s **¶16019225**
IDC I 16 00 30 12.2–.68 31.96N 104.65E 0 4.3,4.2
BJI I 16 00 30 16.4 31.98N 104.48E 15 4.4b,4.3L
NEIC I 16 00 30 17.6–.51 31.93N 104.61E 37–6 4.4b,4.3L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.3km az=38.0.
IDC Error ellipse: s-maj=21.4km s-min=14.7km az=45.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.1km az=86.0.
ISC I 20 03 37 51.9–.92 28.96N–.06 102.4E–.10 10 3.2b 11 2-60
ISCJB I 20 03 37 49.0–.68 28.95N–.04 102.59E–.09 10 4.0s,3.2b **¶15967296**
IDC I 20 03 37 49.5–1.2 28.79N 102.17E 0 4.2,4.2s
BJI I 20 03 37 53.8 29.01N 102.37E 22 3.3L,3.3s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=5.3km az=13.4.
IDC Error ellipse: s-maj=76.9km s-min=20.7km az=60.0.
ISC I 22 18 40 07.4–.47 31.75N–.04 104.09E–.05 15 3.6b,3.1s 42 1-93
ISCJB I 22 18 40 05.5–.35 31.78N–.03 104.12E–.05 15 3.6b,3.1s **¶15960290**
IDC I 22 18 40 05.0–.69 31.88N 104.25E 0 3.8,3.7
BJI I 22 18 40 07.7 31.85N 104.06E 15 4.0b,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=22.5.
IDC Error ellipse: s-maj=23.0km s-min=14.9km az=45.0.
ISC I 31 12 40 46.0–.49 27.19N–.04 102.64E–.07 10 4.0b 16 2-74
BJI I 31 12 40 44.3 27.09N 101.94E 15 3.5L,3.3s **¶16397315**
IDC I 31 12 40 44.5–.79 27.22N 102.63E 0 3.9,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=15.4km az=66.0.
ISC II 10 09 56 42.9–.92 30.42N–.06 103.79E–.08 10 3.5b 14 0-82
ISCJB II 10 09 56 41.9–1.1 30.48N–.08 103.94E–.06 10 3.4b **¶16397945**
IDC II 10 09 56 42.1–4.0 30.43N 103.54E 0 3.6,3.6b
BJI II 10 09 56 48.6 30.96N 103.44E 16 3.4L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=7.5km az=171.3.
IDC Error ellipse: s-maj=91.2km s-min=42.6km az=14.0.
ISC II 13 00 08 57.9–.79 31.66N–.05 103.19E–.08 10 3.4b 16 1-62
ISCJB II 13 00 08 55.0–.51 31.67N–.04 103.19E–.09 10 3.4b,3.1s **¶16031760**
IDC II 13 00 08 56.0–.93 31.74N 103.07E 0 3.5,3.4
BJI II 13 00 08 58.8 31.58N 103.07E 10 3.5L,3.1s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.9km az=161.1.
IDC Error ellipse: s-maj=36.8km s-min=17.4km az=48.0.
ISC II 15 01 36 42.4–.44 31.69N–.05 99.52E–.04 10 4.1b,3.0s 55 4-115
ISCJB II 15 01 36 40.1–.32 31.66N–.05 99.56E–.04 10 4.0b,3.4s **¶16033372**
IDC II 15 01 36 40.2–.62 31.70N 99.69E 0 4.0,3.9
NEIC II 15 01 36 41.1–1.9 31.70N 99.62E 3–12 4.2b,3.9
BJI II 15 01 36 43.0 31.68N 99.52E 20 3.7b,3.7L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=177.1.
IDC Error ellipse: s-maj=21.4km s-min=13.3km az=53.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=223.0.
ISC III 01 07 13 51.5–.50 28.30N–.03 104.94E–.04 19 4.1b 47 2-84
IDC III 01 07 13 48.3–.85 28.17N 104.97E 0 4.1,4.0 **¶16310105**
ISCJB III 01 07 13 49.8–.48 28.26N–.05 104.90E–.06 19 4.2s,4.0b
BJI III 01 07 13 51.4 28.22N 104.95E 17 4.1b,4.1L
NEIC III 01 07 13 53.9–.72 28.22N 104.97E 36–8 4.2b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=16.6km az=57.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=7.5km az=40.4.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=78.0.
ISC III 03 15 08 21.1–.71 32.56N–.06 105.14E–.06 15 3.2b 16 2-80
IDC III 03 15 08 19.5–2.1 32.38N 105.26E 0 3.9,3.9s **¶17193194**
ISCJB III 03 15 08 19.4–.60 32.39N–.06 105.22E–.08 15 3.9s,3.1b
BJI III 03 15 08 23.0 32.43N 105.10E 14 3.6b,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=43.3km s-min=32.1km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.2km az=36.3.
ISC III 05 18 31 04.1–.67 31.28N–.04 103.87E–.06 14 3.6b 21 0-82
IDC III 05 18 31 02.8–.90 31.17N 103.82E 0 3.7,3.6b **¶17193302**
ISCJB III 05 18 31 03.2–.53 31.16N–.05 104.03E–.08 14 3.5b,3.4s
BJI III 05 18 31 06.2 31.25N 103.59E 22 4.0b,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=16.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.0km az=30.6.
ISC III 12 00 50 39.1–.67 31.51N–.08 104.0E–.10 14 4.3b 18 1-98
IDC III 12 00 50 37.0–.95 31.52N 104.17E 0 4.5s,4.5 **¶16445717**
ISCJB III 12 00 50 37.5–.49 31.56N–.06 104.22E–.09 14 4.4s,4.2b
BJI III 12 00 50 40.1 31.54N 104.17E 15 3.6L,4.2b
NEIC III 12 00 50 41.9–.44 31.43N 104.03E 35 4.3b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=37.1km s-min=19.6km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=6.6km az=31.3.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.9km az=66.0.
ISC III 16 21 42 22.3–.76 32.87N–.04 103.13E–.07 10 3.8b 16 2-63
IDC III 16 21 42 21.8–1.4 33.05N 103.92E 0 3.8,3.6b **¶16341983**
BJI III 16 21 42 22.0 32.75N 103.20E 14 3.7L,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=88.1km s-min=26.6km az=65.0.
ISC III 17 12 41 52.1–.62 32.49N–.04 105.53E–.05 11 4.0b 21 2-62
IDC III 17 12 41 49.8–.86 32.37N 105.19E 0 4.1,3.9 **¶16342140**
ISCJB III 17 12 41 50.0–.49 32.44N–.04 105.40E–.07 11 3.9b,3.9
BJI III 17 12 41 53.0 32.58N 105.39E 5 3.7L,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=16.8km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.5km az=19.2.
ISC III 23 00 03 06.5–.37 31.69N–.03 104.07E–.04 14 4.3b 109 1-150
IDC III 23 00 03 04.0–.94 31.65N 104.17E 0 4.2,4.1 **¶16462119**
ISCJB III 23 00 03 04.9–.26 31.70N–.03 104.07E–.04 14 4.2b,4.1
BJI III 23 00 03 07.5 31.71N 104.01E 16 4.5b,4.3b
NEIC III 23 00 03 09.9–.50 31.66N 104.15E 42–5 4.3b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=17.1km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=4.2km az=14.5.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.9km az=89.0.
ISC III 24 23 18 14.7–1.2 29.50N–.06 102.7E–.10 10 3.7b 12 2-84
IDC III 24 23 18 13.1–1.4 29.51N 102.97E 0 3.8,3.6 **¶17198416**
BJI III 24 23 18 17.3 29.61N 103.18E 17 3.4L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=71.1km s-min=23.0km az=66.0.
BJI III 27 06 34 17.9 32.35N 104.95E 10 3.9b,3.6s
¶16375858
ISC III 27 17 10 44.8–.40 31.22N–.03 103.45E–.05 16 4.2b,3.3s 69 0-82
BJI III 27 17 10 41.9 31.29N 103.39E 23 3.9L,3.9s **¶16455750**
IDC III 27 17 10 42.8–.62 31.22N 103.60E 0 4.3,4.2
ISCJB III 27 17 10 43.9–.28 31.31N–.03 103.54E–.04 16 4.2b,3.4s
NEIC III 27 17 10 45.3–1.3 31.25N 103.57E 17–9 4.1b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=22.6km s-min=12.6km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.3km az=35.5.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=7.8km az=212.0.
ISC III 27 20 18 42.1–1.0 30.91N–.09 103.20E–.06 15 3.3b 17 0-82
IDC III 27 20 18 39.8–1.2 30.86N 103.17E 0 3.6,3.5 **¶17198843**

BJI III 27 20 18 40.2 31.03N 103.26E 18 3.7b,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=37.0km s-min=20.4km az=41.0.
ISC III 31 00 00 12.5–.77 31.66N–.07 99.68E–.06 10 3.6b 16 4-82
ISCJB III 31 00 00 10.7–.55 31.49N–.07 99.70E–.05 10 3.6b,3.2s **¶17199239**
IDC III 31 00 00 11.4–.91 31.62N 99.82E 0 3.9,3.8
BJI III 31 00 00 13.5 31.72N 99.50E 10 3.6L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.0km az=7.4.
IDC Error ellipse: s-maj=31.5km s-min=16.9km az=46.0.
ISC IV 01 05 07 10.7–.39 31.49N–.03 104.17E–.04 14 4.4b,3.1s 132 1-148
IDC IV 01 05 07 09.6–.59 31.58N 104.11E 0 4.3,4.2 **¶16401598**
ISCJB IV 01 05 07 10.0–.25 31.56N–.03 104.10E–.04 14 4.4b,3.3s
BJI IV 01 05 07 11.5 31.59N 104.01E 10 4.4b,4.3L
MOS IV 01 05 07 13.1–.76 31.62N 104.15E 33 4.4b,4.3L
NEIC IV 01 05 07 13.6–.96 31.56N 104.16E 25–7 4.7b,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=22.9km s-min=12.8km az=59.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.8km az=29.9.
MOS Error ellipse: s-maj=9.9km s-min=6.2km az=109.4.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=4.9km az=211.0. Felt [II] at Chengdu.
ISC IV 10 09 02 44.9–.51 31.33N–.03 100.77E–.03 18–2 5.1s,5.0b 498 3-162
IDC IV 10 09 02 41.0–.38 31.27N 100.71E 0 4.9,4.9s **¶16416041**
ISCJB IV 10 09 02 41.8–.77 31.37N–.02 100.71E–.02 12–5 5.0s,5.0b
BJI IV 10 09 02 42.4 31.28N 100.80E 10 5.4s,5.3L
MOS IV 10 09 02 44.2–1.1 31.32N 100.74E 33 5.2b,5.2s
NEIC IV 10 09 02 47.4–.65 31.37N 100.76E 43–6 5.1b,5.2s
GCMT IV 10 09 02 47.4–.10 31.26N 100.87E 25 5.4W,5.2s
ISC Event type de.
IDC Error ellipse: s-maj=11.1km s-min=9.1km az=26.0.
ISCJB Event type de. Error ellipse: s-maj=3.1km s-min=2.7km az=172.6.
MOS Error ellipse: s-maj=6.9km s-min=4.3km az=107.9.
NEIC Event type de. Error ellipse: s-maj=4.4km s-min=3.9km az=45.0. Minor damage to some houses and electricity disrupted in Luhuo. Felt at Dewu, Garze, Kanding, Xinlong and Yajiang.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c143; s125,c237; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.50±.02; $M_{\phi\phi}$-1.48±.02; $M_{r\theta}$-0.14±.04; $M_{\theta\phi}$0.05±.02; $M_{\phi r}$-0.43±.04; Best double couple: NP1:ϕ_s45.00000°,δ83.00000° ,λ-165.00000°. NP2:ϕ_s313.00000°,δ75.00000°,λ-7.00000°. Principal axes: T 1.5150,Plg6.0000°,Azm178.0000°; N 0.0750,Plg74.0000°,Azm69.0000° ; P -1.5970,Plg15.0000°,Azm270.0000° M_o1.55600×10^{17}
ISC IV 12 21 12 56.8–.89 30.84N–.06 103.25E–.07 15 3.6b 15 0-146
IDC IV 12 21 12 54.0–1.0 30.89N 103.01E 0 3.7,3.7L **¶17200811**
ISCJB IV 12 21 12 55.2–.74 30.81N–.06 103.09E–.08 15 3.5b,3.7L
BJI IV 12 21 12 59.4 30.61N 103.26E 24 3.9b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.7km s-min=22.5km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=8.6km az=26.3.
ISC IV 12 21 37 13.4–.63 32.38N–.04 105.04E–.06 15 3.9b 23 2-80
ISCJB IV 12 21 37 11.4–.54 32.29N–.04 105.09E–.08 15 3.8b **¶17200814**
IDC IV 12 21 37 11.1–.83 32.32N 105.07E 0 3.9,3.8b
BJI IV 12 21 37 13.8 32.34N 104.93E 16 3.5L,3.4s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.5km az=22.4.
IDC Error ellipse: s-maj=42.4km s-min=16.5km az=60.0.
ISC IV 14 17 51 00.3–1.4 31.7N–.20 101.8E–.30 35 3.4b 6 13-63
IDC IV 14 17 50 54.9–1.2 31.80N 102.05E 0 3.3,3.2 **¶17201043**
ISC Event type ke.
IDC Error ellipse: s-maj=61.7km s-min=20.1km az=63.0.
ISC IV 18 05 42 52.6–1.0 32.2N–.10 105.6E–.20 35 3.4b 7 15-80
IDC IV 18 05 42 47.3–1.0 32.22N 105.64E 0 3.7L,3.5 **¶17201394**
ISCJB IV 18 05 42 50.4–.85 32.20N–.10 105.7E–.20 33 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 18 20 01 50.7–1.4 31.29N 103.07E 0 3.5,3.4b
¶17201442
IDC Error ellipse: s-maj=218.1km s-min=23.5km az=56.0.
ISC IV 19 09 40 47.4–.72 31.09N–.06 103.65E–.07 16 3.6b 17 0-82
IDC IV 19 09 40 44.8–1.1 31.09N 103.99E 0 3.8,3.6 **¶17201489**
ISCJB IV 19 09 40 45.9–.67 31.12N–.06 103.56E–.08 16 3.6b,3.6
BJI IV 19 09 40 47.1 31.05N 103.41E 10 3.4L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=49.9km s-min=20.0km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.3km az=145.8.
ISC IV 19 17 20 52.1–.35 28.25N–.03 104.91E–.04 10 4.3b,3.2s 130 2-147
ISCJB IV 19 17 20 49.9–.23 28.18N–.02 104.84E–.03 10 4.3b,3.1s **¶16448719**
IDC IV 19 17 20 50.2–.59 28.22N 104.89E 0 4.3,4.2
BJI IV 19 17 20 52.9 28.24N 104.88E 15 4.5b,4.2b
MOS IV 19 17 20 54.0–1.1 28.27N 104.89E 38 4.4b,4.2b
NEIC IV 19 17 20 57.5–.53 28.28N 104.90E 55–5 4.4b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=164.2.
IDC Error ellipse: s-maj=20.3km s-min=13.3km az=46.0.
MOS Error ellipse: s-maj=10.6km s-min=6.7km az=101.9.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=82.0.
ISC IV 21 18 43 58.8–.95 31.11N–.05 103.50E–.07 16 3.5b 14 0-62
IDC IV 21 18 43 55.5–1.7 31.56N 104.72E 0 3.4L,3.4 **¶16462897**
ISCJB IV 21 18 43 58.6–1.0 31.21N–.06 103.47E–.09 16 3.2b,3.2s
BJI IV 21 18 43 58.2 30.89N 103.23E 20 3.5L,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=74.3km s-min=29.3km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=8.0km az=154.1.
ISC IV 26 22 41 17.5–1.3 26.02N–.05 102.0E–.20 10 3.4b 10 1-31
IDC IV 26 22 41 13.9–2.7 25.81N 102.24E 0 3.8L,3.7 **¶17202190**
ISCJB IV 26 22 41 16.1–.84 26.09N–.04 102.1E–.10 10 3.4b,3.7
BJI IV 26 22 41 18.6 25.93N 101.84E 10 3.3L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=69.0km s-min=23.1km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=5.4km az=166.1.
ISC IV 29 13 30 57.6–.61 31.06N–.04 103.57E–.06 16 3.8b 26 0-82
IDC IV 29 13 30 55.2–.76 31.03N 103.77E 0 3.9,3.7 **¶16491273**
BJI IV 29 13 30 57.1 30.98N 103.37E 13 3.9L,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=26.6km s-min=15.5km az=59.0.
ISC IV 30 00 50 25.7–.77 28.38N–.08 104.9E–.10 19 3.7b 24 2-84
IDC IV 30 00 50 22.8–.94 28.38N 104.93E 0 3.8,3.7 **¶16491424**
ISCJB IV 30 00 50 24.5–.58 28.49N–.06 105.0E–.10 19 3.7b,3.1s
BJI IV 30 00 50 25.0 28.36N 104.91E 14 3.4L,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=36.8km s-min=17.1km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=8.0km az=175.1.
ISC V 06 10 48 14.8–.30 31.23N–.02 103.67E–.04 16 4.6b,3.3s 218 0-149
IDC V 06 10 48 11.8–.55 31.20N 103.65E 0 4.4,4.3 **¶16497796**
ISCJB V 06 10 48 12.8–.17 31.25N–.02 103.67E–.03 16 4.5b,3.3s
NEIC V 06 10 48 14.5–.88 31.24N 103.73E 16–5 4.7b,3.3s
BJI V 06 10 48 14.7 31.26N 103.59E 15 4.7b,4.5b
MOS V 06 10 48 15.1–.81 31.18N 103.74E 36 4.6b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=11.6km az=35.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.0km az=1.4.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.8km az=75.0.
MOS Error ellipse: s-maj=8.4km s-min=5.3km az=84.3.
BJI V 06 19 32 08.0 32.33N 104.93E 26 3.5L
¶17542318
ISC V 06 23 20 58.2–.80 26.64N–.04 102.95E–.06 10 3.6b 17 2-86
ISCJB V 06 23 20 56.3–.59 26.58N–.04 102.95E–.07 10 3.6b **¶17202959**
IDC V 06 23 20 57.5–1.0 26.72N 103.62E 0 4.0L,3.8
BJI V 06 23 20 58.2 26.66N 102.97E 7 3.4L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.5km az=5.3.
IDC Error ellipse: s-maj=46.0km s-min=19.4km az=73.0.
ISC V 07 00 21 09.1–.43 31.60N–.03 103.94E–.04 14 4.0b,3.4s 71 1-81
ISCJB V 07 00 21 07.4–.27 31.46N–.03 103.89E–.04 14 4.0b,3.5s **¶16560918**
IDC V 07 00 21 07.1–.65 31.45N 103.93E 0 4.1,4.0
NEIC V 07 00 21 09.8–1.4 31.49N 103.87E 15–9 4.2b,4.0
BJI V 07 00 21 11.6 31.52N 103.83E 24 4.6b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.9km az=167.7.
IDC Error ellipse: s-maj=20.8km s-min=13.5km az=53.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.6km az=69.0.
ISC V 15 07 05 32.5–.61 32.53N–.02 105.46E–.03 11–3 5.0b,4.2s 422 2-163
ISCJB V 15 07 05 30.4–.86 32.55N–.02 105.44E–.02 8–5 4.9b,4.2s **¶16512094**
IDC V 15 07 05 30.1–.51 32.46N 105.37E 0 4.8,4.7
MOS V 15 07 05 31.2–1.1 32.45N 105.48E 19 5.2b,4.3s
NEIC V 15 07 05 32.1–.16 32.50N 105.42E 10 5.0b,4.3s
BJI V 15 07 05 32.4 32.59N 105.34E 17 4.9L,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.8km az=166.8.
IDC Error ellipse: s-maj=15.2km s-min=10.4km az=27.0.
MOS Error ellipse: s-maj=6.5km s-min=3.9km az=115.0.
NEIC Event type fe. Error ellipse: s-maj=4.3km s-min=3.5km az=58.0. Felt at Chengdu and Chongqing.
ISC V 20 20 46 32.2–1.0 32.29N–.09 104.77E–.06 15 3.8b 18 4-80
ISCJB V 20 20 46 29.9–.74 32.26N–.07 104.84E–.08 15 3.7b **¶17204082**
IDC V 20 20 46 29.8–.89 31.86N 104.09E 0 3.8,3.7b
BJI V 20 20 46 33.3 32.36N 104.83E 15 3.4L,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=9.4km az=30.1.
IDC Error ellipse: s-maj=59.4km s-min=16.6km az=62.0.
ISC V 21 12 28 48.8–.57 32.73N–.04 105.47E–.04 11 3.7b 26 2-80
ISCJB V 21 12 28 46.0–.47 32.77N–.04 105.59E–.05 11 3.5b **¶17204135**
BJI V 21 12 28 50.2 32.75N 105.43E 22 3.9b,3.6L
IDC V 21 12 28 53.4–6.2 32.66N 105.42E 44–63 4.2L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.9km az=39.9.
IDC Error ellipse: s-maj=33.8km s-min=17.9km az=59.0.
ISC V 28 16 18 16.1–.96 31.8N–.10 104.1E–.20 14 3.3b 7 14-62
ISCJB V 28 16 18 14.0–.80 31.72N–.10 104.2E–.20 14 3.4b **¶17204644**
IDC V 28 16 18 13.9–1.2 31.72N 104.12E 0 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.4km s-min=13.9km az=179.1.
IDC Error ellipse: s-maj=36.5km s-min=22.4km az=62.0.
ISC VI 01 21 16 34.0–.62 28.43N–.05 104.94E–.07 19 3.8b 24 2-67
BJI VI 01 21 16 31.6 28.36N 104.92E 5 3.7L,3.5 **¶17204924**
ISCJB VI 01 21 16 32.0–.52 28.46N–.06 105.03E–.09 19 3.8b,3.5
IDC VI 01 21 16 38.5–3.7 28.40N 105.08E 63–37 3.8,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.4km az=155.0.
IDC Error ellipse: s-maj=19.5km s-min=14.4km az=50.0.
ISC VI 05 05 21 44.2–.39 31.80N–.03 104.34E–.03 12–2 4.8b,3.6s 331 1-170
MOS VI 05 05 21 43.9–.73 31.79N 104.27E 23 4.9b,3.6s **¶16557334**
ISCJB VI 05 05 21 45.0–.92 31.79N–.02 104.21E–.03 30–7 4.6b,3.6s
NEIC VI 05 05 21 44.9–.13 31.84N 104.21E 15 4.8b,4.8L
BJI VI 05 05 21 45.3 31.80N 104.14E 19 4.6b,4.6L
IDC VI 05 05 21 47.5–3.0 31.80N 104.27E 33–22 4.4,4.4
ISC Event type fe.
MOS Error ellipse: s-maj=7.3km s-min=5.0km az=112.8.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.4km az=163.8.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=3.0km az=52.0. Felt at Chengdu.
IDC Error ellipse: s-maj=12.2km s-min=8.9km az=46.0.
ISC VI 14 03 44 19.4–.48 32.43N–.03 105.16E–.04 15 3.9b 40 2-80
IDC VI 14 03 44 17.0–.78 32.40N 104.94E 0 4.0,3.9 **¶17206082**
ISCJB VI 14 03 44 17.7–.34 32.47N–.03 105.15E–.04 15 3.9b,3.9
BJI VI 14 03 44 19.5 32.55N 105.14E 15 4.2b,4.2L
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=14.9km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=20.4.
ISC VI 24 13 34 18.5–.36 29.34N–.04 101.05E–.03 10 4.6b,3.7s 215 3-92
ISCJB VI 24 13 34 16.3–.21 29.27N–.03 101.04E–.03 10 4.5b,3.6s **¶16679638**
IDC VI 24 13 34 16.3–.55 29.30N 101.19E 0 4.4,4.3
BJI VI 24 13 34 18.9 29.29N 101.09E 10 4.6b,4.6b
MOS VI 24 13 34 18.9–.93 29.26N 101.20E 30 4.8b,4.6b
NEIC VI 24 13 34 22.2–.92 29.33N 101.08E 38–9 4.7b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.2km az=172.5.
IDC Error ellipse: s-maj=15.8km s-min=11.5km az=39.0.
MOS Error ellipse: s-maj=10.7km s-min=5.3km az=120.6.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.1km az=206.0.
ISC VI 26 14 00 45.2–.47 28.49N–.03 105.08E–.05 19 3.9b 45 2-72
IDC VI 26 14 00 41.7–.77 28.40N 105.07E 0 4.0,3.9 **¶16683822**
ISCJB VI 26 14 00 43.1–.45 28.45N–.05 105.00E–.07 19 3.9b,3.9
BJI VI 26 14 00 45.0 28.36N 104.91E 15 4.1b,3.9L
NEIC VI 26 14 00 48.2–.98 28.42N 105.03E 46–10 4.0b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=15.6km az=48.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.8km az=166.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=8.9km az=219.0.

(308) Northern India.

ISC I 18 06 47 36.7–1.1 26.41N–.05 81.88E–.04 35 30 1-11
ISCJB I 18 06 47 36.2–.47 26.50N–.05 81.90E–.03 33 **¶600678428**
NDI I 18 06 47 37.4–4.7 26.40N 81.80E 10 3.3L
DMN I 18 06 47 38.1–.49 26.48N 81.96E 10 4.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.4km az=5.2.
NDI Error ellipse: s-maj=15.8km s-min=15.5km az=-1.0.
DMN Event type ke. Error ellipse: s-maj=11.6km s-min=9.6km az=163.0.
ISC I 26 20 47 05.8–1.5 30.97N–.05 78.39E–.09 10 14 1-14
ISCJB I 26 20 47 04.6–1.3 30.96N–.05 78.5E–.10 10 **¶16461088**
NDI I 26 20 47 10.5–2.0 30.84N 78.16E 10 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=6.5km az=2.5.
NDI Error ellipse: s-maj=9.2km s-min=15.4km az=-1.0.
ISC II 06 16 16 53.7–.72 31.82N–.05 76.60E–.09 11 3.6b,3.5s 24 1-86
IDC II 06 16 16 50.3–1.4 31.45N 76.36E 0 3.7,3.6b **¶17191801**
ISCJB II 06 16 16 53.2–.52 31.84N–.05 76.5E–.10 11 3.6s,3.6b
NDI II 06 16 16 57.4–1.9 31.60N 76.44E 10 3.2L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=60.4km s-min=18.4km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=4.3km az=156.7.
NDI Error ellipse: s-maj=16.6km s-min=8.7km az=-1.0.
NDI V 29 00 05 39.6–1.7 28.08N 76.49E 11–3 3.5L
¶601124703
NDI Error ellipse: s-maj=8.0km s-min=5.4km az=-1.0.

(309) Nepal-India border region.

ISC IV 04 13 42 41.1–.91 29.55N–.08 80.93E–.06 17 3.7s,3.6b 30 1-87
IDC IV 04 13 42 38.7–2.0 29.62N 81.33E 0 3.8,3.7 **¶17199776**
ISCJB IV 04 13 42 39.3–.67 29.51N–.07 80.89E–.05 17 3.7s,3.6b
NDI IV 04 13 42 43.0–2.3 29.52N 80.80E 10 3.1L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=98.0km s-min=19.9km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.0km az=154.3.
NDI Error ellipse: s-maj=13.6km s-min=12.5km az=-1.0.
ISC IV 04 16 33 33.7–1.2 29.6N–.10 80.87E–.09 17 3.4b 12 1-73
IDC IV 04 16 33 28.9–3.2 29.32N 80.05E 0 3.6L,3.5 **¶17199788**
ISC Event type ke.
IDC Error ellipse: s-maj=151.4km s-min=22.2km az=68.0.
ISC IV 05 01 00 46.0–.90 29.96N–.06 80.49E–.07 23 3.6b 26 1-87
NDI IV 05 01 00 40.3–2.6 29.52N 81.00E 10 3.2L **¶17199827**
IDC IV 05 01 00 42.5–3.5 29.90N 80.61E 0 3.8,3.7

ISCJB IV 05 01 00 44.6–.81 29.99N–.07 80.50E–.08 23 3.6b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 21 19 54 10.9–.71 29.69N–.06 80.83E–.07 17 3.6b 33 1-121
IDC IV 21 19 54 07.6–.87 29.55N 80.77E 0 3.8,3.7b **¶17201734**
ISCJB IV 21 19 54 08.8–.54 29.64N–.06 80.89E–.05 17 3.6b,2.7s
NDI IV 21 19 54 11.1–2.0 29.58N 81.02E 28–10 3.4L,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=31.1km s-min=16.8km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.0km az=176.6.
NDI Error ellipse: s-maj=8.2km s-min=13.3km az=-1.0.
ISC VI 23 22 13 46.7–1.1 29.93N–.06 80.61E–.07 23 4.0b 22 1-50
IDC VI 23 22 13 42.7–10 29.73N 80.71E 0 3.8,3.8 **¶17206836**
NDI VI 23 22 13 45.9–4.7 30.02N 80.54E 10 3.2L,3.8
ISCJB VI 23 22 13 46.7–.94 29.93N–.06 80.48E–.07 23 4.0b,3.8
ISC Event type ke.
ISCJB Event type ke.

(310) Nepal.

ISC I 09 11 48 29.4–1.5 29.4N–.20 81.7E–.30 27 3.5b 10 17-73
IDC I 09 11 48 25.0–1.2 29.33N 81.63E 0 3.8,3.8L **¶17189758**
ISCJB I 09 11 48 27.1–1.1 29.3N–.10 81.6E–.20 27 3.6b,3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC I 18 03 35 43.6–3.0 29.8N–.40 81.6E–.20 10 3.5b 5 4-75
IDC I 18 03 35 40.9–3.1 29.63N 81.96E 0 3.6L,3.5 **¶17190448**
ISC Event type ke.
IDC Error ellipse: s-maj=77.8km s-min=36.3km az=148.0.
ISC I 18 07 02 27.6–2.0 28.0N–.30 85.8E–.40 19 3.6b 6 19-67
IDC I 18 07 02 24.8–1.9 28.02N 85.87E 0 3.7,3.7L **¶17190463**
ISCJB I 18 07 02 25.6–1.9 28.0N–.20 85.8E–.40 19 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC II 13 17 51 21.8–.50 27.36N–.03 86.94E–.02 31–3 4.3b,3.6s 199 1-148
IDC II 13 17 51 17.4–.63 27.38N 86.96E 0 4.4,4.3 **¶16022469**
BJI II 13 17 51 19.7 27.40N 86.91E 33 4.9b,4.4b
DMN II 13 17 51 19.2–.23 27.47N 87.01E 2 5.1L,4.4b
ISCJB II 13 17 51 20.9–.38 27.32N–.02 86.91E–.02 39–4 4.3b,3.6s
MOS II 13 17 51 20.4–1.3 27.35N 86.96E 33 4.5b,3.6s
NDI II 13 17 51 21.1–2.7 27.39N 86.93E 10 4.6b,4.5b
NEIC II 13 17 51 21.6–2.1 27.39N 86.94E 29–15 4.5b,4.5b
BKK II 13 17 51 25.6–.50 27N–16 86E–13 10 6.2b,5.8
ISC Event type ke.
DMN Event type ke.
ISCJB Event type ke.
NEIC Event type se.
ISC II 17 09 48 39.7–1.0 29.49N–.10 81.00E–.08 17 3.6b 16 2-73
IDC II 17 09 48 36.6–1.6 29.46N 80.86E 0 3.6,3.5 **¶17192408**
NDI II 17 09 48 37.2–1.5 29.46N 81.16E 10 3.1L,3.5
ISCJB II 17 09 48 38.1–.74 29.48N–.08 80.99E–.05 17 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC II 22 19 44 48.8–1.7 27.6N–.20 87.3E–.30 35 3.6b 7 14-88
IDC II 22 19 44 44.0–1.8 27.64N 87.23E 0 3.5,3.4b **¶16158404**
ISCJB II 22 19 44 46.3–1.4 27.6N–.20 87.2E–.30 33 3.4b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC III 10 16 49 19.5–1.8 28.1N–.20 85.4E–.30 18 3.6b 8 19-70
IDC III 10 16 49 16.6–1.5 28.01N 85.34E 0 3.8,3.8L **¶17193642**
ISCJB III 10 16 49 17.2–1.5 28.0N–.20 85.3E–.30 18 3.7b,3.8L
ISC Event type ke.
ISCJB Event type ke.
IDC III 11 16 58 59.6–9.1 28.54N 84.01E 97–80 4.2L,3.9
¶17194003
IDC Error ellipse: s-maj=138.7km s-min=25.2km az=59.0.
IDC III 12 00 06 48.2–11 28.24N 83.56E 0 4.0,4.0
¶17194170
IDC Error ellipse: s-maj=210.8km s-min=90.3km az=133.0.
IDC III 18 19 12 15.8–16 29.03N 83.57E 0 3.4,3.4
¶603394962
IDC Error ellipse: s-maj=276.2km s-min=67.4km az=28.0.
ISC III 22 05 10 53.6–1.0 28.3N–.20 83.1E–.10 35 3.9b 17 5-88
IDC III 22 05 10 48.3–.77 28.30N 83.08E 0 4.2L,4.0 **¶17197928**
ISCJB III 22 05 10 51.5–.76 28.3N–.10 83.01E–.08 33 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 26 08 23 02.8–1.4 27.6N–.20 86.6E–.20 10 4.0b 10 2-89
ISCJB III 26 08 23 00.9–1.1 27.6N–.20 86.5E–.20 10 3.7b **¶17198617**
IDC III 26 08 23 01.1–1.2 27.53N 86.21E 0 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.6km s-min=13.5km az=44.8.
IDC Error ellipse: s-maj=46.7km s-min=18.6km az=59.0.
IDC IV 07 10 09 24.3–12 27.89N 85.54E 0 3.9,3.9b
¶17200096
IDC Error ellipse: s-maj=293.1km s-min=116.7km az=121.0.
ISC IV 10 11 09 08.6–.98 29.5N–.20 81.13E–.09 17 3.3b 8 1-88
ISCJB IV 10 11 09 06.7–.81 29.6N–.10 81.32E–.07 17 3.2b **¶17200455**
IDC IV 10 11 09 06.7–3.3 29.55N 81.41E 0 3.8L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=8.7km az=178.7.
IDC Error ellipse: s-maj=135.1km s-min=23.3km az=66.0.
ISC IV 10 18 43 53.1–.79 29.73N–.08 81.17E–.06 17 3.5b 18 1-73
IDC IV 10 18 43 48.5–2.6 29.43N 80.34E 0 3.5,3.3 **¶17200492**
ISCJB IV 10 18 43 52.2–.62 29.88N–.08 81.23E–.05 17 3.2b,3.3
NDI IV 10 18 43 54.6–2.2 29.76N 81.03E 10 3.2L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=99.6km s-min=20.0km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.0km az=7.5.
NDI Error ellipse: s-maj=7.4km s-min=5.8km az=-1.0.
ISC IV 15 17 21 09.9–.51 27.90N–.07 87.31E–.06 50 3.7b 53 1-88
ISCJB IV 15 17 21 08.1–.40 27.92N–.05 87.35E–.04 50 3.7b,3.2s **¶16505392**
DMN IV 15 17 21 09.4–.51 28.04N 87.36E 50 5.4L,3.2s
HYB IV 15 17 21 10.5 27.85N 87.16E 99 4.4b,3.2s
IDC IV 15 17 21 10.8–.72 28.03N 87.40E 52–5 3.7,3.5
NDI IV 15 17 21 17.2–2.5 27.63N 86.33E 10 3.9L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.7km az=167.0.
DMN Event type ke. Error ellipse: s-maj=22.5km s-min=10.4km az=178.0.
IDC Error ellipse: s-maj=17.7km s-min=13.2km az=28.0.
NDI Error ellipse: s-maj=10.1km s-min=7.8km az=-1.0.
ISC IV 17 04 48 33.5–.92 29.3N–.10 81.31E–.07 27 3.5b 13 1-88
IDC IV 17 04 48 29.3–1.2 29.27N 81.17E 0 3.6,3.6L **¶17201283**
ISCJB IV 17 04 48 32.4–.78 29.3N–.10 81.45E–.07 27 3.4b,3.6L
ISC Event type ke.
ISCJB Event type ke.
IDC IV 18 18 22 23.6–13 29.13N 82.11E 0 3.7,3.6
¶17201437
IDC Error ellipse: s-maj=364.6km s-min=34.5km az=60.0.
ISC IV 24 18 53 40.6–2.7 28.0N–.40 86.9E–.50 35 3.4b 5 5-69
IDC IV 24 18 53 38.8–3.3 28.59N 88.62E 0 3.5,3.4 **¶16463143**
ISC Event type ke.
IDC Error ellipse: s-maj=183.5km s-min=19.4km az=64.0.
ISC VI 03 00 53 25.3–.31 27.46N–.03 87.84E–.03 30–2 4.8b 420 2-155
NDI VI 03 00 53 23.3–2.8 27.54N 87.92E 10–13 5.0b,5.0L **¶16555902**
ISCJB VI 03 00 53 24.5–.45 27.46N–.02 87.99E–.02 37–4 4.8b,4.3s
MOS VI 03 00 53 24.8–1.0 27.54N 88.06E 38 4.9b,4.3s
BJI VI 03 00 53 25.2 27.53N 87.92E 33 5.3b,4.8b
BKK VI 03 00 53 25.7–.40 28N–6.0 88E–7.0 10 5.1b,4.8b
IDC VI 03 00 53 26.9–.61 27.55N 88.03E 44–4 4.5,4.4
NEIC VI 03 00 53 27.3–.17 27.53N 88.02E 46 5.0b,4.4
DMN VI 03 00 53 27.1–.00 27.60N 88.03E 66 5.0b,4.4
ISC Event type fe.
NDI Error ellipse: s-maj=8.5km s-min=8.5km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=2.5km az=27.6.
MOS Error ellipse: s-maj=7.7km s-min=4.1km az=118.2.
IDC Error ellipse: s-maj=11.3km s-min=9.5km az=21.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.3km az=46.0. Felt at Baghdogra, Darjiliing, Gangtok, Kalimpang, Shiliguri and Singtam. Also felt at Ilam, Nepal and [III] at Thimphu, Bhutan.
DMN Event type ke.
IDC VI 13 15 19 58.8–2.8 27.22N 86.90E 0 3.6,3.5L
¶17206053
IDC Error ellipse: s-maj=89.7km s-min=26.5km az=74.0.
ISC VI 15 00 59 16.8–3.1 29.7N–.30 81.0E–.20 17 3.7b 13 1-55
IDC VI 15 00 59 06.9–22 28.93N 81.76E 0 4.3s,4.3 **¶601259020**
NDI VI 15 00 59 31.2–3.1 30.45N 79.97E 10 3.1L,4.3
ISC Event type ke.
IDC Error ellipse: s-maj=403.0km s-min=67.8km az=132.0.
NDI Error ellipse: s-maj=12.0km s-min=20.4km az=-1.0.

(311) Sikkim.

ISC II 10 03 51 43.5–.79 27.14N–.06 88.29E–.03 44–9 4.1b,3.8s 75 1-89
IDC II 10 03 51 38.0–.81 27.22N 88.19E 0 4.1,4.0 **¶16020159**
DMN II 10 03 51 40.8–.43 26.95N 88.37E 2 4.7L,4.0
BJI II 10 03 51 42.4 27.04N 88.47E 65 4.3b,4.1b
ISCJB II 10 03 51 43.0–.48 27.16N–.05 88.29E–.03 58–5 4.0b,4.0s
NEIC II 10 03 51 44.2–1.1 27.22N 88.21E 46–10 4.0b,4.0s
ISC Event type ke.
IDC Error ellipse: s-maj=22.7km s-min=14.8km az=38.0.
DMN Event type ke. Error ellipse: s-maj=12.4km s-min=6.7km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.2km az=1.8.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.7km az=213.0.

(313) Eastern Xizang-India border region.

ISC V 02 15 57 32.4–1.0 28.4N–.20 94.85E–.08 35 3.8b 15 8-75
IDC V 02 15 57 28.0–1.3 28.42N 95.17E 0 3.7,3.5 **¶16708619**
ISCJB V 02 15 57 30.6–.76 28.3N–.10 94.75E–.05 33 3.6b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC V 25 09 20 31.2–1.7 27.10N 92.38E 0 3.9,3.7
¶17204440
IDC Error ellipse: s-maj=70.6km s-min=21.1km az=66.0.
ISC V 29 22 22 21.6–.82 27.6N–.10 92.9E–.20 17 3.8b 13 11-85
ISCJB V 29 22 22 19.4–.66 27.6N–.10 92.9E–.20 17 3.6b **¶17204728**
IDC V 29 22 22 23.8–6.8 27.60N 92.93E 33–54 3.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.6km s-min=10.8km az=148.9.
IDC Error ellipse: s-maj=34.9km s-min=15.8km az=56.0.
IDC VI 03 07 22 38.8–1.8 29.36N 95.81E 0 3.4,3.2
¶16637668
IDC Error ellipse: s-maj=114.1km s-min=26.5km az=63.0.

(314) Southern India.

ISC I 06 14 21 57.3–1.1 17.49N–.04 80.71E–.05 8–8 24 0-12
HYB I 06 14 21 57.2 17.54N 80.76E 10 3.0 **¶16328325**
ISC Event type ke.
ISC I 26 15 29 12.7–1.6 17.94N–.08 76.62E–.05 7–10 14 0-5
HYB I 26 15 29 12.7–.56 17.96N 76.62E 6 2.5L **¶600306285**
ISC Event type ke.
HYB Error ellipse: s-maj=1.8km s-min=0.7km az=-1.0.
ISC II 05 13 57 46.6–.96 16.42N–.05 74.70E–.05 10 15 1-7
HYB II 05 13 57 43.9–1.1 16.68N 74.65E 10–17 2.8L **¶600772216**
ISCJB II 05 13 57 44.7–.75 16.43N–.05 74.83E–.04 10 2.8L
NDI II 05 13 57 49.3–2.4 16.55N 74.12E 10 3.1L
ISC Event type ke.
HYB Error ellipse: s-maj=6.8km s-min=9.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.2km az=161.0.
NDI Error ellipse: s-maj=5.9km s-min=10.4km az=-1.0.
ISC II 08 07 23 13.7–1.1 22.75N–.05 79.79E–.09 35 23 2-9
NDI II 08 07 23 11.9–1.9 22.66N 79.80E 10 3.5L **¶600772217**
ISCJB II 08 07 23 12.4–.65 22.79N–.03 79.6E–.10 33 3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC V 17 16 00 43.2–1.0 23.73N–.07 70.50E–.06 15 22 1-14
ISCJB V 17 16 00 43.0–.70 23.57N–.06 70.59E–.04 15 **¶601005015**
NDI V 17 16 00 45.2–1.6 23.44N 70.48E 15 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.4km az=0.9.
NDI Error ellipse: s-maj=5.9km s-min=4.0km az=-1.0.

(315) India-Bangladesh border region.

IDC I 14 14 45 28.1–4.6 24.75N 91.18E 0 3.7L,3.5
¶17190177
IDC Error ellipse: s-maj=108.9km s-min=34.5km az=56.0.
ISC I 21 10 53 14.7–.86 24.6N–.10 92.42E–.06 37 3.4b 25 1-80
IDC I 21 10 53 08.6–2.3 24.65N 92.41E 0 3.8L,3.7 **¶16152011**
ISCJB I 21 10 53 12.8–.60 24.51N–.07 92.32E–.04 37 3.4b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 06 10 45.6–.64 23.87N–.07 92.95E–.08 48 4.0b 30 1-91
NEIC I 27 06 10 40.9–.47 23.81N 92.90E 10 4.1b **¶16019267**
ISCJB I 27 06 10 43.9–.51 23.86N–.05 92.95E–.07 48 3.9b,3.1s
IDC I 27 06 10 44.2–6.5 23.79N 92.87E 33–51 4.0,4.0L
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=7.8km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.6km az=148.2.
IDC Error ellipse: s-maj=30.3km s-min=12.4km az=58.0.
IDC I 27 16 40 48.4–1.9 25.85N 90.47E 0 4.0s,4.0
¶17191126
IDC Error ellipse: s-maj=82.3km s-min=20.7km az=66.0.
ISC II 01 08 52 47.4–.71 23.67N–.06 91.72E–.07 29 3.8b 31 2-93
IDC II 01 08 52 44.4–.83 23.77N 91.53E 0 4.0,3.9 **¶17191466**
ISCJB II 01 08 52 46.5–.51 23.68N–.06 91.58E–.05 29 3.8b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC II 22 13 18 22.5–.65 25.0N–.20 92.9E–.10 35 3.8b 22 1-86
ISCJB II 22 13 18 19.5–.62 24.8N–.10 92.9E–.20 33 3.8b **¶17192704**
IDC II 22 13 18 23.1–.68 24.85N 92.90E 48–7 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.7km s-min=9.8km az=140.8.
IDC Error ellipse: s-maj=33.2km s-min=13.8km az=54.0.
IDC II 24 05 36 37.3–2.3 23.82N 91.92E 0 4.0L,3.8
¶17192771
IDC Error ellipse: s-maj=119.9km s-min=22.3km az=58.0.
ISC IV 14 08 06 19.8–1.2 25.7N–.20 90.8E–.10 34 3.4b 8 1-84
IDC IV 14 08 06 14.7–.98 25.60N 90.68E 0 3.7,3.6 **¶17200997**
ISCJB IV 14 08 06 18.1–.94 25.6N–.20 90.69E–.10 34 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 19 13 39 37.1–.59 23.72N–.06 92.62E–.05 35 4.0b 51 2-91
IDC IV 19 13 39 31.6–.68 23.76N 92.84E 0 4.1,4.0 **¶16505440**
ISCJB IV 19 13 39 34.5–.38 23.64N–.05 92.63E–.04 33 4.0b,2.7s
NEIC IV 19 13 39 37.4–.77 23.77N 92.87E 38–7 4.1b,2.7s
ISC Event type fe.
IDC Error ellipse: s-maj=27.7km s-min=14.0km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=7.5km s-min=4.8km az=35.3.
NEIC Event type fe. Error ellipse: s-maj=12.8km s-min=4.8km az=56.0. Felt [IV] at Aizawl, India.
ISC IV 22 06 01 56.5–1.4 22.1N–.20 92.9E–.30 50 4.0b 7 4-67
IDC IV 22 06 01 49.0–1.5 21.85N 92.49E 0 4.3L,4.0 **¶17201788**
ISCJB IV 22 06 01 54.3–1.2 22.1N–.20 92.9E–.30 50 3.9b,3.4s
ISC Event type ke.
ISCJB Event type ke.

ISC IV 26 17 00 33.0–.45 25.10N–.06 92.98E–.05 35 4.1b,3.9s 99 1-90
ISCJB IV 26 17 00 31.0–.29 25.07N–.04 92.93E–.03 33 4.1b,3.7s ¶16460956
IDC IV 26 17 00 32.8–.74 25.09N 93.09E 33–4 4.0,4.0
NEIC IV 26 17 00 35.5–.72 25.08N 93.04E 60–7 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=19.9.
IDC Error ellipse: s-maj=21.7km s-min=14.0km az=48.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=4.5km az=59.0.
IDC V 12 23 22 16.5–5.9 23.76N 92.85E 0 3.8,3.6b
¶17203513
IDC Error ellipse: s-maj=155.6km s-min=105.8km az=35.0.
ISC V 24 03 14 22.3–.63 25.01N–.06 92.18E–.06 44 3.9b 43 1-153
ISCJB V 24 03 14 20.2–.46 24.96N–.05 92.15E–.04 44 3.9b,3.1s ¶16640722
IDC V 24 03 14 22.2–4.8 25.12N 92.33E 38–42 4.3L,3.9
NEIC V 24 03 14 23.0–1.1 25.10N 92.31E 47–10 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=4.8km az=24.6.
IDC Error ellipse: s-maj=32.8km s-min=15.3km az=55.0.
NEIC Event type se. Error ellipse: s-maj=16.2km s-min=6.8km az=59.0.
ISC VI 23 12 39 38.3–.48 23.82N–.06 91.44E–.05 30 4.0b,3.4s 55 2-152
ISCJB VI 23 12 39 36.2–.38 23.76N–.04 91.42E–.04 30 4.0b,3.4s ¶16720977
NEIC VI 23 12 39 39.9–.44 23.89N 91.48E 35 4.4b,3.4s
IDC VI 23 12 39 39.0–.61 23.93N 91.45E 32–4 3.9,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=169.5.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=7.6km az=48.0.
IDC Error ellipse: s-maj=23.1km s-min=13.0km az=56.0.

(316) Bangladesh.

ISC II 12 10 22 45.0–.70 23.35N–.07 90.93E–.05 35 3.8b,3.5s 53 2-84
IDC II 12 10 22 40.0–1.1 23.19N 90.80E 0 4.0L,3.9 ¶16300885
NEIC II 12 10 22 41.5–.46 23.25N 91.00E 10 4.1b,3.9
ISCJB II 12 10 22 44.6–.50 23.42N–.04 90.75E–.04 33 3.8b,3.6s
DMN II 12 10 22 45.2–.39 23.26N 91.06E 25 5.0L,3.6s
ISC Event type fe.
IDC Error ellipse: s-maj=39.4km s-min=18.1km az=52.0.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=7.2km az=219.0. Felt [II] at Dhaka. Felt in much of Bangladesh.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.6km az=23.7.
DMN Event type ke. Error ellipse: s-maj=18.3km s-min=7.2km az=43.0.
ISC V 03 14 38 56.9–.65 23.37N–.05 90.72E–.05 35 3.7b,2.9s 36 2-63
IDC V 03 14 38 53.9–1.9 23.65N 90.95E 0 3.8,3.7 ¶17202685
ISCJB V 03 14 38 54.6–.44 23.37N–.04 90.68E–.04 33 3.7b,2.8s
NEIC V 03 14 39 00.2–.96 23.69N 91.32E 10 4.0b,2.8s
ISC Event type fe.
IDC Error ellipse: s-maj=84.5km s-min=19.0km az=60.0.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.7km az=178.7.
NEIC Event type fe. Error ellipse: s-maj=16.8km s-min=14.2km az=202.0. Felt at Comilla, Feni, Lakshmipur and in the Dhaka area, Bangladesh.
ISC VI 09 07 34 27.2–.41 23.59N–.04 89.64E–.03 35 4.0b,3.1s 125 3-83
ISCJB VI 09 07 34 25.4–.25 23.61N–.03 89.66E–.02 33 4.0b,3.2s ¶16581053
NEIC VI 09 07 34 27.4–.35 23.60N 89.66E 35 4.4b,3.2s
IDC VI 09 07 34 27.1–.62 23.69N 89.60E 30–3 4.8L,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.0km az=14.1.
NEIC Event type fe. Error ellipse: s-maj=10.1km s-min=5.1km az=39.0. Felt [II] at Dhaka. Also felt at Bogra and Narayanganj. Felt at Calcutta, India.
IDC Error ellipse: s-maj=17.9km s-min=11.8km az=43.0.
ISC VI 21 04 51 01.0–1.2 23.1N–.10 90.34E–.09 35 15 3-61
IDC VI 21 04 50 58.5–3.1 23.84N 91.29E 0 3.8,3.6L ¶16731105
ISCJB VI 21 04 51 00.3–1.2 23.1N–.10 90.3E–.10 35 3.6b,3.5s
ISC Event type ke.
ISCJB Event type ke.

(317) Northeastern India.

ISC I 01 19 50 49.2–1.8 26.1N–.20 90.6E–.20 24 3.4b 8 1-65
IDC I 01 19 50 44.9–1.9 26.08N 90.32E 0 3.6,3.5 ¶17189153
ISCJB I 01 19 50 46.8–1.3 26.1N–.20 90.5E–.20 24 3.3b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC III 15 08 50 46.6–3.8 26.86N 93.10E 0 4.1,4.0
¶17196095
IDC Error ellipse: s-maj=335.2km s-min=21.8km az=60.0.
IDC V 19 10 35 01.2–4.7 26.48N 92.71E 0 3.7,3.6
¶17203964
IDC Error ellipse: s-maj=403.1km s-min=22.4km az=60.0.
ISC VI 30 21 45 37.9–3.1 25.8N–.40 93.2E–.30 35 3.5b 6 1-86
IDC VI 30 21 45 31.6–8.0 25.60N 93.13E 0 3.7,3.6 ¶17207275
ISC Event type ke.
IDC Error ellipse: s-maj=213.2km s-min=48.0km az=107.0.

(318) Yunnan.

ISC I 23 15 46 20.2–.57 23.01N–.04 101.60E–.06 10 4.0b,3.8s 39 2-75
ISCJB I 23 15 46 18.3–.36 22.99N–.03 101.67E–.05 10 4.0b,3.7s ¶15960292
IDC I 23 15 46 18.6–.78 23.00N 101.60E 0 4.0,4.0b
NEIC I 23 15 46 19.8–.50 23.03N 101.69E 10 4.2b,4.1L
BJI I 23 15 46 20.5 23.08N 101.56E 6 4.1L,4.0b
BKK I 23 15 46 21.9–1.5 23N–11 101E–12 5–13 4.8b,4.4
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 09 21 26 23.0–2.0 25.73N 99.42E 0 4.2L,3.5
BJI II 09 21 26 14.4 24.69N 99.71E 9 3.5b,3.5L ¶16397907
IDC Error ellipse: s-maj=66.9km s-min=24.7km az=88.0.
ISC II 12 05 44 16.0–.34 27.25N–.03 103.06E–.03 10 4.7b,3.5s 226 2-149
IDC II 12 05 44 14.0–.63 27.26N 103.12E 0 4.4,4.3 ¶16021388
ISCJB II 12 05 44 14.4–.19 27.29N–.02 102.96E–.03 10 4.6b,3.6s
BJI II 12 05 44 15.5 27.14N 103.01E 12 4.9b,4.6b
MOS II 12 05 44 18.4–.80 27.21N 102.99E 43 4.9b,4.6b
NEIC II 12 05 44 20.7–.46 27.26N 103.03E 45–4 4.8b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=17.1km s-min=13.2km az=31.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=3.1km az=149.5.
MOS Error ellipse: s-maj=8.4km s-min=4.8km az=108.4.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=4.2km az=94.0.
ISC III 24 23 29 13.5–1.6 25.1N–.10 99.17E–.08 17 3.7b 8 3-58
IDC III 24 23 29 07.8–1.4 24.57N 98.87E 0 3.7,3.5b ¶17198418
BJI III 24 23 29 10.8 24.94N 98.95E 13 3.8L,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=59.9km s-min=25.2km az=59.0.
ISC IV 15 07 44 46.8–.66 26.68N–.03 103.09E–.04 17–4 4.8b,3.8s 284 2-165
BJI IV 15 07 44 46.0 26.66N 102.94E 12 4.8b,4.7b ¶16436934
ISCJB IV 15 07 44 47.2–1.2 26.70N–.02 103.09E–.03 30–8 4.7b,3.8s
MOS IV 15 07 44 48.2–1.1 26.67N 103.13E 41 5.0b,3.8s
IDC IV 15 07 44 48.9–3.5 26.68N 103.10E 33–27 4.4,4.4L
BKK IV 15 07 44 48.0–.30 27N–4.0 103E–5.0 10 5.1b,5.0
NEIC IV 15 07 44 50.6–.58 26.69N 103.06E 47–5 4.8b,5.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=14.6.
MOS Error ellipse: s-maj=8.4km s-min=5.1km az=99.7.
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=74.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=84.0. Felt at Xichang.
ISC IV 25 01 46 40.8–.78 25.43N–.06 101.90E–.07 10 3.9b 19 1-93
ISCJB IV 25 01 46 39.2–.60 25.51N–.06 101.92E–.06 10 3.9s,3.7b ¶16463165
IDC IV 25 01 46 40.0–.82 25.53N 101.79E 0 3.9,3.8
BJI IV 25 01 46 42.0 25.39N 101.92E 10 3.9L,3.8s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.1km az=42.0.
IDC Error ellipse: s-maj=26.8km s-min=16.4km az=67.0.
ISC V 06 21 58 22.9–.58 26.62N–.04 103.02E–.05 10 4.0b 36 2-86
ISCJB V 06 21 58 20.2–.44 26.55N–.04 103.17E–.04 10 3.9b,2.9s ¶16713915
IDC V 06 21 58 21.4–.80 26.80N 103.32E 0 4.0,3.9b
NEIC V 06 21 58 22.5–.59 26.55N 103.07E 10 4.1b,3.9b
BJI V 06 21 58 23.1 26.64N 102.94E 12 4.2b,3.7L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=5.2km az=41.6.
IDC Error ellipse: s-maj=33.4km s-min=16.6km az=66.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=9.6km az=93.0.
IDC V 20 18 28 39.6–1.6 26.73N 103.50E 0 3.5,3.3b
¶17204068
IDC Error ellipse: s-maj=569.5km s-min=30.0km az=56.0.
ISC V 21 20 31 16.3–1.1 22.80N–.02 103.61E–.02 3–8 4.0b,3.0s 87 1-63
ISCJB V 21 20 31 15.1–.55 22.83N–.02 103.64E–.03 6–4 4.1b,3.0s ¶16545726
IDC V 21 20 31 16.1–1.3 22.85N 103.67E 0 4.1L,3.9
NEIC V 21 20 31 17.7–.42 22.82N 103.62E 10 4.1b,3.9
PLV V 21 20 31 17.6–2.6 22.82N 103.72E 2–10 4.2L,3.9
BJI V 21 20 31 17.1 22.91N 103.64E 7 4.4b,4.3b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.5km az=2.5.
IDC Error ellipse: s-maj=30.7km s-min=20.5km az=99.0.
NEIC Event type fe. Error ellipse: s-maj=9.3km s-min=6.4km az=109.0. Felt at Xicheng, China.
PLV Error ellipse: s-maj=7.4km s-min=6.2km az=-1.0.
ISC VI 22 01 42 11.0–.60 25.56N–.04 99.86E–.06 10 4.1b,3.3s 38 3-78
BKK VI 22 01 41 48.3–1.6 27N–55 100E–17 10 4.6b,4.4b ¶16731188
ISCJB VI 22 01 42 07.9–.42 25.58N–.04 99.84E–.06 10 4.1b,3.3s
BJI VI 22 01 42 07.0 25.60N 99.97E 6 4.0b,4.0b
IDC VI 22 01 42 09.3–.95 25.65N 100.11E 0 4.5L,4.1
NEIC VI 22 01 42 11.1–3.5 25.59N 99.82E 15–24 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.2km az=17.1.
IDC Error ellipse: s-maj=34.5km s-min=15.4km az=76.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=88.0.

(319) Bay of Bengal.

IDC III 15 15 23 45.1–2.2 20.45N 87.77E 0 3.7L,3.6
¶16478266
IDC Error ellipse: s-maj=85.5km s-min=25.8km az=55.0.
IDC IV 16 15 01 49.6–1.9 10.02N 85.45E 0 3.6,3.5L
¶17201235
IDC Error ellipse: s-maj=69.7km s-min=27.6km az=55.0.
ISC V 17 07 02 49.3–.56 20.31N–.06 91.30E–.05 35 4.0b,3.4s 56 5-96
IDC V 17 07 02 44.2–.90 20.25N 91.39E 0 4.0,3.9b ¶16591589
NEIC V 17 07 02 45.7–.45 20.18N 91.30E 10 4.7b,3.9b
ISCJB V 17 07 02 47.7–.43 20.39N–.04 91.26E–.05 33 4.1b,3.4s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

SEISMIC REGION 27.
Southern Xinjiang to Gansu.

(320) Kyrgyzstan-Xinjiang border region.

ISC I 01 00 48 50.2–1.6 40.89N–.06 74.85E–.04 2–12 36 1-4
SOME I 01 00 48 49.9 40.90N 74.87E 0 ¶16404994
KRNET I 01 00 48 50.6–.10 40.92N 74.84E 5 2.1b
NNC I 01 00 48 52.5–3.3 40.87N 74.77E 0 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.5km s-min=16.9km az=144.0.
ISC I 05 00 01 18.1–1.5 40.90N–.07 77.64E–.03 10 79 2-8
KRNET I 05 00 01 14.3–.10 40.67N 77.52E 3.1b ¶15908665
SOME I 05 00 01 16.7 40.83N 77.62E 10 3.1b
NNC I 05 00 01 18.4–2.3 40.94N 77.70E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.1km s-min=12.1km az=165.0.
ISC I 10 04 02 43.8–2.2 41.52N–.09 77.45E–.05 1–12 27 1-3
KRNET I 10 04 02 41.4–.10 41.46N 77.44E 2.0b ¶601091717
SOME I 10 04 02 44.7 41.52N 77.53E 5 2.0b
ISC Event type ke.
ISC I 20 02 11 24.3–1.6 41.78N–.05 77.55E–.03 1–12 71 1-6
KRNET I 20 02 11 25.0–.10 41.83N 77.50E 14 2.3b ¶15967307
SOME I 20 02 11 24.6 41.77N 77.62E 5 2.3b
NNC I 20 02 11 25.4–1.8 41.78N 77.55E 0 3.0b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.3km s-min=4.6km az=175.0.
KRNET I 23 10 44 09.7–.10 40.44N 77.88E 2.1b
¶601091850
ISC I 24 05 05 59.7–1.8 41.44N–.07 77.47E–.03 0–12 54 1-3
SOME I 24 05 05 58.2 41.35N 77.48E 5 ¶15967612
KRNET I 24 05 06 00.8–.10 41.51N 77.41E 20 3.9b
ISC Event type ke.
ISC I 24 09 34 04.7–1.8 40.01N–.06 75.69E–.03 3–10 74 2-78
SOME I 24 09 34 00.1 39.82N 75.88E 5 ¶15967639
IDC I 24 09 34 02.1–1.9 39.72N 75.88E 0 3.5,3.5b
KRNET I 24 09 34 06.4–.10 40.00N 75.74E 3.8b,3.5b
NNC I 24 09 34 10.7–1.9 40.24N 75.84E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=34.8km s-min=23.4km az=82.0.
NNC Event type se. Error ellipse: s-maj=17.0km s-min=8.1km az=175.0.
ISC I 24 12 50 04.7–3.3 40.54N–.10 77.34E–.04 11–25 66 2-5
KRNET I 24 12 50 01.1–.10 40.60N 77.57E 3.3b ¶15967655
SOME I 24 12 50 07.7 40.68N 77.37E 20 3.3b
ISC Event type ke.
ISC I 25 01 54 53.5–2.1 40.1N–.10 77.44E–.04 10 69 2-6
KRNET I 25 01 54 52.2–.10 40.25N 77.90E 3.2b ¶601990000
SOME I 25 01 54 52.6 40.18N 77.43E 10 3.2b
NNC I 25 01 54 56.5–2.1 40.34N 77.41E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.7km s-min=9.1km az=159.0.
ISC I 29 16 12 31.5–1.3 41.90N–.04 76.70E–.02 4–10 71 0-4
NNC I 29 16 12 29.4–5.7 44.24N 76.09E 0 2.7b,2.5 ¶601091921
KRNET I 29 16 12 31.8–.10 41.91N 76.69E 17 2.0b,2.5
SOME I 29 16 12 32.0 41.90N 76.75E 5 2.0b,2.5
ISC Event type ke.
NNC Error ellipse: s-maj=48.6km s-min=27.9km az=146.0.
KRNET II 01 07 42 03.9–.10 40.51N 74.68E 1.9b
¶601091940
ISC II 02 04 05 50.2–1.6 40.31N–.08 76.71E–.03 10 75 1-70
IDC II 02 04 05 45.2–2.4 39.89N 76.68E 0 3.4,3.4 ¶16397435
SOME II 02 04 05 46.9 40.22N 76.67E 5 3.4,3.4
KRNET II 02 04 05 50.5–.10 40.32N 76.47E 3.3b,3.4
NNC II 02 04 05 54.5–2.2 40.43N 76.61E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=33.7km s-min=28.9km az=119.0.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=14.0km az=162.0.
ISC II 06 01 59 31.6–2.4 40.09N–.09 76.57E–.03 5–17 71 1-5
SOME II 06 01 59 29.4 40.02N 76.43E 5 ¶16019376
KRNET II 06 01 59 36.5–.10 40.28N 76.64E 3.2b
ISC Event type ke.
ISC II 06 02 18 01.4–2.8 40.4N–.10 77.68E–.06 10 34 2-4
SOME II 06 02 18 03.0 40.43N 77.68E 15 ¶16019377
KRNET II 06 02 18 07.2–.10 40.60N 77.45E 2.7b
ISC Event type ke.
ISC II 06 11 04 36.2–3.0 41.34N–.07 77.80E–.03 2–21 91 1-76
KRNET II 06 11 04 34.3–.10 41.32N 77.79E 19 3.8b ¶16019445
SOME II 06 11 04 34.2 41.33N 77.82E 5 3.8b
IDC II 06 11 04 36.3–2.0 41.35N 77.86E 0 3.5,3.4
BJI II 06 11 04 37.7 41.39N 77.86E 10 3.6L,3.4
NNC II 06 11 04 37.8–2.2 41.33N 77.78E 0 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=14.4km az=171.0.
NNC Event type se. Error ellipse: s-maj=17.9km s-min=9.3km az=173.0.
ISC II 06 11 26 56.7–1.8 41.35N–.08 77.77E–.04 10 50 1-4

SOME II 06 11 26 56.7 41.37N 77.78E 0 ¶16019448
KRNET II 06 11 26 57.9–.10 41.41N 77.70E 2.3b
NNC II 06 11 26 59.1–1.7 45.02N 77.01E 0 3.1b,2.7
ISC Event type ke.
NNC Error ellipse: s-maj=16.0km s-min=5.3km az=170.0.
ISC II 06 17 54 04.7–1.8 41.39N–.06 77.75E–.03 6–17 58 1-4
SOME II 06 17 54 04.7 41.28N 77.82E 15 ¶601091990
KRNET II 06 17 54 05.3–.10 41.41N 77.71E 19 2.3b
NNC II 06 17 54 06.2–1.1 45.02N 77.05E 0 3.1b,2.7
ISC Event type ke.
NNC Error ellipse: s-maj=10.4km s-min=3.6km az=170.0.
ISC II 07 18 53 30.5–1.4 40.51N–.05 74.06E–.02 8–17 83 1-5
KRNET II 07 18 53 34.9–.10 40.71N 74.00E 12 2.7b ¶16019578
NNC II 07 18 53 35.9–1.6 40.72N 74.02E 0 3.6b,3.2
SOME II 07 18 53 35.8 40.60N 73.93E 20 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.6km s-min=8.7km az=151.0.
ISC II 07 22 10 00.9–1.6 40.74N–.05 74.05E–.02 0–13 76 1-5
KRNET II 07 22 10 00.2–.10 40.73N 74.02E 17 2.7b ¶16019675
NNC II 07 22 10 01.9–1.4 40.68N 73.94E 0 3.4b,3.0
SOME II 07 22 10 03.0 40.70N 74.02E 15 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.4km s-min=7.3km az=140.0.
ISC II 09 16 52 58.4–2.5 40.5N–.10 77.54E–.05 10 30 1-4
SOME II 09 16 52 57.5 40.52N 77.68E 15 ¶601092016
KRNET II 09 16 52 59.4–.10 40.44N 77.35E 2.8b
ISC Event type ke.
ISC II 09 20 45 58.9–2.5 40.7N–.10 77.41E–.04 8–12 32 1-4
KRNET II 09 20 46 01.0–.10 40.69N 77.28E 2.8b ¶601092019
SOME II 09 20 46 10.1 41.15N 77.65E 10 2.8b
ISC Event type ke.
ISC II 25 03 12 50.8–2.5 40.78N–.10 76.92E–.03 4–18 57 1-5
NNC II 25 03 12 49.7–4.2 40.68N 76.97E 0 3.2b,2.8 ¶16161003
SOME II 25 03 12 50.4 40.72N 76.90E 5 3.2b,2.8
KRNET II 25 03 12 54.9–.10 40.97N 76.81E 11 2.7b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.8km s-min=17.7km az=174.0.
ISC II 27 00 24 19.7–1.7 40.83N–.08 77.76E–.04 10 56 1-4
SOME II 27 00 24 16.7 40.75N 77.83E 15 ¶601092118
KRNET II 27 00 24 19.1–.10 40.72N 77.67E 2.9b
ISC Event type ke.
ISC III 04 21 37 41.4–1.6 40.85N–.08 76.87E–.03 10 58 1-8
SOME III 04 21 37 38.3 40.78N 76.97E 0 ¶16554966
KRNET III 04 21 37 40.8–.10 40.89N 76.88E 1 2.9b
NNC III 04 21 37 44.6–1.5 40.97N 76.93E 0 3.5b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.6km s-min=8.1km az=168.0.
ISC III 05 14 51 51.1–3.0 40.1N–.20 76.91E–.06 8–21 42 2-6
SOME III 05 14 51 54.5 40.32N 76.92E 5 ¶16557118
KRNET III 05 14 51 55.5–.10 40.42N 77.01E 2.9b
NNC III 05 14 51 57.1–4.1 40.51N 77.14E 0 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.7km s-min=28.2km az=71.0.
ISC III 12 10 30 14.8–2.2 40.17N–.09 75.92E–.08 24–24 20 1-3
KRNET III 12 10 30 13.3–.10 40.23N 75.89E 21 3.1b ¶16587429
NNC III 12 10 30 15.4–3.3 40.19N 75.85E 0 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.8km s-min=19.1km az=122.0.
ISC III 16 14 06 59.5–2.2 40.09N–.04 77.90E–.03 3–14 3.9b 108 2-82
ISCJB III 16 14 06 59.2–1.1 39.93N–.02 77.84E–.04 9–8 3.9b ¶16342046
KRNET III 16 14 07 00.4–.10 40.18N 77.71E 4.3b
BJI III 16 14 07 01.8 40.28N 77.83E 7 4.2b,4.1L
SOME III 16 14 07 02.0 40.30N 77.77E 5 3.5s,4.1L
IDC III 16 14 07 04.8–3.5 40.22N 77.78E 39–27 3.7,3.7
NNC III 16 14 07 06.9–.99 40.64N 77.83E 0 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.8km az=158.8.
IDC Error ellipse: s-maj=29.5km s-min=20.3km az=172.0.
NNC Event type se. Error ellipse: s-maj=8.4km s-min=5.7km az=160.0.
ISC III 18 10 49 04.1–1.9 41.65N–.07 77.32E–.04 6–12 36 0-2
SOME III 18 10 49 03.6 41.57N 77.35E 10 ¶16630766
KRNET III 18 10 49 05.0–.10 41.70N 77.29E 13 2.0b
NNC III 18 10 49 06.5–8.0 44.41N 76.72E 0 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=90.3km s-min=30.7km az=154.0.
ISC III 26 23 12 56.5–.71 41.67N–.03 76.93E–.02 10 3.3b 120 0-76
IDC III 26 23 12 54.6–1.7 41.47N 76.88E 0 3.6b,3.5 ¶16481087
KRNET III 26 23 12 54.5–.10 41.64N 76.97E 17 3.7b,3.5
SOME III 26 23 12 56.3 41.68N 76.97E 15 3.7b,3.5
NNC III 26 23 12 56.5–.70 41.69N 76.96E 0 3.8b,3.5
ISCJB III 26 23 12 56.9–.42 41.64N–.03 76.94E–.02 10 3.3b,3.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC IV 02 12 36 43.8–1.0 41.61N–.03 76.09E–.02 7–10 86 0-9
KRNET IV 02 12 36 43.7–.10 41.61N 76.09E 15 3.0b ¶16705288
SOME IV 02 12 36 44.2 41.57N 76.13E 10 3.0b
NNC IV 02 12 36 45.7–.67 41.66N 76.03E 0 3.2b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.5km s-min=3.6km az=152.0.
ISC IV 09 03 13 07.1–1.4 40.29N–.06 77.61E–.04 10 75 2-6
SOME IV 09 03 13 03.1 40.17N 77.65E 5 ¶16722507
KRNET IV 09 03 13 03.8–.10 40.19N 77.55E 3.6b
NNC IV 09 03 13 07.6–4.7 40.30N 77.62E 0 3.9b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.1km s-min=24.1km az=147.0.
ISC IV 25 23 08 06.6–1.4 41.61N–.04 77.28E–.02 6–11 75 1-4
NNC IV 25 23 08 04.8–4.8 44.86N 76.27E 0 3.1b,2.8 ¶601092498
KRNET IV 25 23 08 06.7–.10 41.63N 77.27E 14 2.2b,2.8
SOME IV 25 23 08 07.5 41.63N 77.33E 10 2.2b,2.8
KNET IV 25 23 08 08.6–.79 41.64N 77.13E 7–4 2.1L,2.8
ISC Event type ke.
NNC Error ellipse: s-maj=34.4km s-min=22.9km az=171.0.
KNET Error ellipse: s-maj=6.7km s-min=5.1km az=68.0.
ISC IV 27 04 30 22.8–2.6 41.80N–.09 79.57E–.08 10–14 26 1-3
KRNET IV 27 04 30 24.9–.10 41.90N 79.51E 12 3.0b ¶601092512
SOME IV 27 04 30 25.9 41.82N 79.38E 10 3.0b
ISC Event type ke.
ISC V 02 23 10 57.0–1.6 40.08N–.05 76.99E–.03 0–10 3.7b,2.9s 101 1-77
IDC V 02 23 10 53.8–2.3 39.75N 77.39E 0 3.8,3.6 ¶16708654
BJI V 02 23 10 59.8 40.32N 77.26E 9 4.1b,4.0b
SOME V 02 23 11 01.2 40.37N 77.15E 5 4.1b,4.0b
KRNET V 02 23 11 01.5–.10 40.39N 77.14E 7 4.2b,4.0b
NNC V 02 23 11 03.3–1.2 40.40N 77.14E 0 4.2b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=33.5km s-min=26.3km az=160.0.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=7.2km az=148.0.
ISC V 02 23 18 19.7–1.5 40.44N–.06 77.13E–.04 10 56 1-5
NNC V 02 23 18 11.7–2.4 40.07N 77.77E 0 3.1b,2.8 ¶16912312
KRNET V 02 23 18 13.2–.10 40.27N 77.10E 3.2b,2.8
SOME V 02 23 18 18.0 40.33N 77.20E 15 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=10.2km az=116.0.
ISC V 04 22 02 33.4–1.3 40.55N–.07 77.77E–.04 10 53 3-77
IDC V 04 22 02 33.6–7.2 40.00N 78.31E 39–42 3.3b,3.2 ¶17202800
SOME V 04 22 02 34.5 40.63N 77.80E 0 3.3b,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=68.2km s-min=27.7km az=168.0.
ISC V 05 16 12 08.0–.96 40.71N–.05 77.37E–.03 10 3.7b 84 1-71
IDC V 05 16 12 05.5–1.9 40.76N 76.85E 0 3.7b,3.5 ¶16708936
NNC V 05 16 12 06.3–3.0 40.58N 77.35E 0 4.0b,3.6
KRNET V 05 16 12 07.6–.10 40.68N 77.28E 17 3.5b,3.6
SOME V 05 16 12 08.8 40.75N 77.42E 5 3.5b,3.6
ISCJB V 05 16 12 11.0–.68 40.57N–.04 77.22E–.04 10 3.7b,3.6
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 07 04 23 25.5–3.7 40.3N–.10 77.93E–.05 5–22 39 2-6
SOME V 07 04 23 19.9 40.07N 77.87E 10 ¶16918929
KRNET V 07 04 23 21.5–.10 40.04N 77.68E 3.0b
NNC V 07 04 23 22.6–1.6 40.22N 77.85E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.3km s-min=5.8km az=167.0.
ISC V 12 18 20 33.9–1.4 41.76N–.05 79.55E–.03 31–10 3.6b 133 1-82
MOS V 12 18 20 30.1–1.9 41.65N 79.72E 18 4.2b ¶601092651
BJI V 12 18 20 30.1 41.83N 79.45E 11 4.3b,3.9b
KRNET V 12 18 20 31.8–.10 41.74N 79.56E 24 4.6b,3.9b
SOME V 12 18 20 32.0 41.80N 79.52E 10 3.1s,3.9b
NNC V 12 18 20 36.4–3.7 42.00N 79.32E 0 4.5b,4.2
IDC V 12 18 20 37.4–2.8 41.83N 79.55E 75–25 3.8,3.6
ISC Event type se.
MOS Error ellipse: s-maj=12.4km s-min=7.6km az=101.2.
NNC Event type se. Error ellipse: s-maj=34.6km s-min=12.8km az=139.0.
IDC Error ellipse: s-maj=23.7km s-min=16.3km az=160.0.
ISC V 14 06 34 29.8–2.1 41.94N–.07 79.73E–.06 1–12 42 1-5
KRNET V 14 06 34 29.9–.10 42.02N 79.77E 24 2.5b ¶16946188
SOME V 14 06 34 32.0 42.03N 79.82E 15 2.5b
ISC Event type ke.
ISC V 14 16 03 16.9–3.3 41.93N–.07 79.78E–.06 2–24 51 1-5
SOME V 14 16 03 17.6 41.93N 79.85E 20 ¶16523129
KRNET V 14 16 03 18.2–.10 42.08N 79.73E 21 2.4b
NNC V 14 16 03 18.5–2.0 42.04N 79.73E 0 2.7b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.4km s-min=11.5km az=108.0.
ISC V 17 13 43 35.3–2.8 40.3N–.10 77.66E–.04 5–14 44 2-4
KRNET V 17 13 43 36.8–.10 40.34N 77.62E 2.6b ¶601092672
SOME V 17 13 43 36.4 40.35N 77.68E 5 2.6b
ISC Event type ke.
ISC V 21 23 22 03.5–.83 40.26N–.04 77.74E–.03 10 90 2-71
IDC V 21 23 22 02.9–2.4 40.08N 78.08E 0 3.8b,3.5 ¶16637036
SOME V 21 23 22 03.1 40.30N 77.92E 10 3.8b,3.5
KRNET V 21 23 22 06.2–.10 40.42N 77.79E 3.7b,3.5
NNC V 21 23 22 08.0–3.1 40.61N 77.88E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=36.8km s-min=21.9km az=133.0.
NNC Event type se. Error ellipse: s-maj=24.8km s-min=12.8km az=161.0.
ISC V 23 05 07 33.8–1.2 40.23N–.06 77.18E–.04 10 89 1-71
IDC V 23 05 07 30.8–1.9 40.01N 77.14E 0 3.7,3.7b ¶16710681
SOME V 23 05 07 31.3 40.10N 77.27E 10 3.7,3.7b
KRNET V 23 05 07 32.1–.10 40.14N 77.09E 4.1b,3.7b
NNC V 23 05 07 34.9–1.1 40.21N 77.00E 0 3.9b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=30.5km s-min=23.6km az=63.0.
NNC Event type se. Error ellipse: s-maj=10.6km s-min=6.5km az=153.0.
ISC V 23 22 09 44.5–2.2 40.79N–.08 77.67E–.04 4–12 66 1-7
SOME V 23 22 09 40.4 40.63N 77.70E 5 ¶601092704
KRNET V 23 22 09 43.4–.10 40.77N 77.53E 6 3.1b
NNC V 23 22 09 46.6–1.3 40.91N 77.73E 0 3.9b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.0km s-min=5.8km az=163.0.
ISC V 29 23 29 44.9–1.1 40.50N–.05 77.37E–.03 10 88 1-71
IDC V 29 23 29 43.8–4.4 40.45N 77.26E 0 3.8b,3.4 ¶16711248
KRNET V 29 23 29 46.4–.10 40.60N 77.38E 12 3.3b,3.4
NNC V 29 23 29 46.7–2.6 40.60N 77.43E 0 4.1b,3.8
SOME V 29 23 29 48.1 40.73N 77.35E 15 4.1b,3.8
ISCJB V 29 23 29 49.1–.73 40.46N–.04 77.31E–.04 10 3.6b,3.8
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
KRNET VI 09 14 53 59.0–.10 41.58N 77.17E 2.1b
SOME VI 09 14 53 59.5 41.45N 77.10E 5 2.1b ¶601092824
ISC VI 10 23 46 55.3–1.8 41.82N–.06 78.64E–.04 9–11 57 1-3
NNC VI 10 23 46 54.6–8.8 44.95N 78.31E 0 3.6b,3.2 ¶601092838
KRNET VI 10 23 46 56.4–.10 41.88N 78.62E 10 2.9b,3.2
SOME VI 10 23 46 56.2 41.83N 78.65E 5 2.9b,3.2
ISC Event type ke.
NNC Error ellipse: s-maj=71.7km s-min=30.7km az=2.0.
ISC VI 20 06 18 01.1–1.9 40.02N–.10 76.82E–.05 10 55 2-15
KRNET VI 20 06 17 56.3–.10 39.79N 76.88E 3.7b ¶17240286
SOME VI 20 06 17 59.2 40.08N 76.90E 10 3.7b
NNC VI 20 06 18 01.3–3.4 39.93N 76.53E 0–14 3.5b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.4km s-min=15.8km az=109.0.
ISC VI 22 06 35 14.1–3.2 40.66N–.09 77.62E–.05 2–24 58 2-6
NNC VI 22 06 35 13.7–1.6 40.76N 77.56E 0 3.9b,3.6 ¶17242760
KRNET VI 22 06 35 13.3–.10 40.66N 77.49E 3.9b,3.6
SOME VI 22 06 35 15.3 40.67N 77.52E 20 3.9b,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.1km s-min=6.2km az=175.0.
ISC VI 28 15 11 00.5–2.6 40.13N–.10 77.83E–.05 3–13 69 2-9
KRNET VI 28 15 10 58.6–.10 39.88N 77.76E 3.4b ¶16686669
SOME VI 28 15 10 59.7 40.23N 77.67E 5 3.4b
NNC VI 28 15 11 00.8–1.5 40.28N 77.73E 6–7 3.6b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.2km s-min=5.5km az=168.0.

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ISC I 01 01 56 05.8–.70 39.43N–.02 75.28E–.02 8–4 5.1b,4.4s 644 1-150
KRNET I 01 01 56 03.0–.10 39.16N 75.24E 5.7b,4.4s ¶15902455
IDC I 01 01 56 04.3–.40 39.42N 75.27E 0 4.8,4.7
BJI I 01 01 56 04.7 39.49N 75.21E 9 5.1b,5.0L
ISCJB I 01 01 56 04.2–.11 39.36N–.02 75.31E–.02 10 5.0b,4.4s
NEIC I 01 01 56 06.0–.15 39.44N 75.25E 10 5.1b,4.4s
GCMT I 01 01 56 06.0–.20 39.44N 75.16E 12 4.9W,4.4s
MOS I 01 01 56 06.5–1.1 39.47N 75.29E 23 5.2b,4.4s
SOME I 01 01 56 07.7 39.68N 75.42E 10 4.6s,4.4s
NNC I 01 01 56 10.9–2.4 39.77N 75.23E 0 5.3b,5.1
ISC Event type fe.
IDC Error ellipse: s-maj=9.8km s-min=8.9km az=109.0.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=2.1km az=22.4.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=3.5km az=27.0. Felt at Kashi.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c61; s97,c167; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.88±.07 $M_{\theta\theta}$-3.26±.06; $M_{\phi\phi}$0.37±.07; $M_{r\theta}$0.15±.19; $M_{\theta\phi}$0.01±.06; $M_{\phi r}$-0.34±.24; Best double couple: NP1:ϕ_s98.00000°,δ47.00000° ,λ100.00000°. NP2:ϕ_s263.00000°,δ44.00000°,λ79.00000°. Principal axes: T 2.9280,Plg82.0000°,Azm79.0000°; N 0.3310,Plg7.0000°,Azm271.0000° ; P -3.2640,Plg1.0000°,Azm180.0000° $M_0$3.09600×10^{16}
MOS Error ellipse: s-maj=6.8km s-min=4.3km az=117.0.
NNC Event type se. Error ellipse: s-maj=21.8km s-min=13.0km az=178.0.
ISC I 01 04 09 11.5–2.6 39.8N–.10 75.19E–.08 10 30 2-5
KRNET I 01 04 09 01.7–.10 39.24N 75.25E 3.6b ¶16405003
NNC I 01 04 09 11.6–2.3 39.84N 75.07E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.9km s-min=15.7km az=6.0.
ISC I 01 07 07 56.5–1.4 39.51N–.04 75.28E–.04 3–8 3.6b 76 2-83
SOME I 01 07 07 52.0 39.42N 75.23E 15 3.6b ¶16394561
KRNET I 01 07 07 52.1–.10 39.01N 75.26E 3.9b
NNC I 01 07 07 56.4–2.8 39.30N 74.88E 0 3.9b,3.5
IDC I 01 07 07 58.6–8.1 39.37N 75.19E 29–56 3.5,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.6km s-min=16.9km az=161.0.

IDC Error ellipse: s-maj=33.1km s-min=18.5km az=1.0.
ISC I 01 07 42 52.9–2.0 39.58N–.09 74.32E–.06 10 37 2-5
KRNET I 01 07 42 45.8–.10 39.18N 74.44E 3.4b ¶16405010
NNC I 01 07 42 53.4–7.1 39.61N 74.31E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=55.8km s-min=36.1km az=161.0.
ISC I 01 11 07 49.9–2.6 39.4N–.10 75.05E–.08 10 34 2-5
KRNET I 01 11 07 45.8–.10 39.21N 75.05E 3.2b ¶16405013
NNC I 01 11 07 48.4–3.3 39.29N 74.98E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.4km s-min=20.5km az=144.0.
ISC I 02 00 28 15.4–2.1 37.2N–.10 85.2E–.10 10 11 8-21
BJI I 02 00 28 11.8 36.78N 85.20E 11 3.6L ¶15906930
ISCJB I 02 00 28 14.3–1.5 37.32N–.09 85.10E–.10 10 3.4b
NNC I 02 00 28 14.9–12 37.53N 85.81E 0 3.9,3.9b
IDC I 02 00 28 14.5–3.3 37.22N 85.19E 0 3.4b,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=11.1km az=170.6.
NNC Event type se. Error ellipse: s-maj=105.2km s-min=87.7km az=24.0.
IDC Error ellipse: s-maj=41.2km s-min=33.9km az=129.0.
ISC I 02 00 44 26.9–1.2 39.60N–.07 75.36E–.06 10 3.4b 33 2-81
IDC I 02 00 44 24.6–1.2 39.23N 75.21E 0 3.7,3.5 ¶15906927
KRNET I 02 00 44 25.7–.10 39.33N 75.20E 3.5b,3.5
NNC I 02 00 44 29.2–2.8 39.70N 75.23E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=29.7km s-min=22.9km az=178.0.
NNC Event type se. Error ellipse: s-maj=21.9km s-min=13.0km az=166.0.
KRNET I 02 03 50 40.0–.10 39.67N 75.67E 2.9b
¶15906906
ISC I 11 00 32 49.3–2.3 40.87N–.09 78.31E–.05 10 58 2-6
SOME I 11 00 32 42.9 40.58N 78.35E 5 ¶16425056
NNC I 11 00 32 46.0–2.7 40.78N 78.32E 0 3.5b,3.1
KRNET I 11 00 32 51.1–.10 40.86N 78.62E 3.0b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.3km s-min=10.2km az=160.0.
ISC I 12 03 25 35.5–1.8 41.64N–.04 81.04E–.06 7–10 3.7b 74 2-81
IDC I 12 03 25 34.6–.82 41.70N 81.14E 0 3.8,3.7b ¶16019198
SOME I 12 03 25 35.6 41.68N 81.18E 15 3.2s,3.7b
NNC I 12 03 25 36.7–2.4 41.65N 81.28E 0 4.1b,4.0
BJI I 12 03 25 36.5 41.64N 81.15E 6 3.6L,4.0
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.6km az=65.0.
NNC Event type se. Error ellipse: s-maj=18.6km s-min=14.3km az=144.0.
ISC I 12 09 57 31.6–2.0 40.83N–.08 78.14E–.04 10 84 2-6
SOME I 12 09 57 31.8 40.83N 78.10E 20 ¶16425104
NNC I 12 09 57 31.7–3.8 40.87N 78.09E 0 3.7b,3.4
KRNET I 12 09 57 32.9–.10 40.75N 78.29E 3.3b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.4km s-min=12.3km az=163.0.
NNC I 12 23 55 39.8–1.9 39.74N 76.69E 0 3.7b,3.3
¶16425122
NNC Event type se. Error ellipse: s-maj=17.5km s-min=13.4km az=171.0.
NNC I 13 12 48 51.8–3.8 41.05N 83.76E 0 3.9b,3.5
¶600818912
NNC Event type se. Error ellipse: s-maj=27.0km s-min=17.0km az=135.0.
ISC I 13 19 57 50.6–2.4 39.9N–.10 75.22E–.07 10 36 2-5
KRNET I 13 19 57 48.6–.10 39.76N 75.22E 2.6b ¶601091755
NNC I 13 19 57 52.8–1.9 40.00N 75.25E 0 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.5km s-min=10.3km az=168.0.
ISC I 15 06 13 16.3–1.0 41.29N–.07 83.86E–.04 10 52 3-76
IDC I 15 06 13 13.6–2.1 41.33N 83.78E 0 4.0,4.0s ¶16395897
BJI I 15 06 13 16.2 41.24N 83.80E 10 3.6L,3.3
SOME I 15 06 13 16.8 41.28N 83.68E 5 3.6L,3.3
NNC I 15 06 13 17.7–1.0 41.44N 83.86E 7–3 3.9b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=21.5km az=99.0.
NNC Event type se. Error ellipse: s-maj=7.6km s-min=4.4km az=143.0.
ISC I 16 16 51 09.1–2.9 39.40N–.06 74.15E–.05 12–19 3.7b 42 1-78
BJI I 16 16 51 00.8 39.50N 73.57E 5 3.3L ¶16396032
KRNET I 16 16 51 08.4–.10 39.37N 74.03E 3.5b
IDC I 16 16 51 08.1–1.6 39.30N 73.96E 0 3.6b,3.5
NNC I 16 16 51 15.0–3.2 39.66N 73.86E 0 3.6b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=25.2km s-min=14.4km az=134.0.
NNC Event type se. Error ellipse: s-maj=28.1km s-min=17.6km az=10.0.
ISC I 17 04 54 00.9–2.5 39.9N–.10 76.96E–.07 10 18 3-4
SOME I 17 04 53 55.3 39.63N 76.88E 5 ¶16445626
NNC I 17 04 53 59.5–4.8 39.87N 77.00E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.3km s-min=27.1km az=168.0.
ISC I 18 01 00 53.0–.71 41.36N–.05 82.03E–.04 18 3.7b 79 2-76
SOME I 18 01 00 48.2 41.15N 82.00E 15 3.0s ¶16019231
IDC I 18 01 00 50.2–1.2 41.37N 82.19E 0 3.8,3.7
NNC I 18 01 00 51.5–1.7 41.35N 82.15E 0 4.3b,4.0
BJI I 18 01 00 51.7 41.39N 82.03E 5 4.0b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=19.5km s-min=15.4km az=124.0.
NNC Event type se. Error ellipse: s-maj=14.9km s-min=8.6km az=148.0.
ISC I 19 11 10 31.0–2.1 39.55N–.09 74.77E–.05 10 50 2-5
KRNET I 19 11 10 28.4–.10 39.27N 75.55E 3.4b ¶15949072
SOME I 19 11 10 29.4 39.52N 74.63E 0 3.4b
NNC I 19 11 10 31.1–3.8 39.29N 75.17E 0 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.2km s-min=24.3km az=152.0.
KRNET I 20 03 49 57.2–.10 39.38N 74.76E 2.4b
¶600950433
ISC I 22 00 13 39.5–2.3 39.71N–.09 74.09E–.05 1–14 31 1-4
KRNET I 22 00 13 38.4–.10 39.61N 74.10E 2.6b ¶601989815
NNC I 22 00 13 39.1–3.1 39.74N 74.18E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=14.4km az=157.0.
ISC I 22 20 35 34.5–2.0 42.0N–.20 88.3E–.10 35 8 6-16
IDC I 22 20 35 29.6–5.2 41.56N 87.80E 0 3.2,3.2 ¶15963736
ISC Event type ke.
IDC Error ellipse: s-maj=71.5km s-min=33.9km az=25.0.
ISC I 24 09 09 23.4–2.3 40.0N–.10 75.81E–.08 10 41 2-5
SOME I 24 09 09 11.8 39.78N 75.87E 5 ¶15967634
KRNET I 24 09 09 17.4–.10 39.84N 75.96E 3.1b
NNC I 24 09 09 26.1–2.5 40.27N 75.61E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.6km s-min=16.3km az=7.0.
ISC I 24 12 53 32.7–1.7 41.94N–.08 81.26E–.06 10 48 2-19
IDC I 24 12 53 30.8–3.1 41.96N 81.23E 0 3.2,3.2 ¶15967656
SOME I 24 12 53 31.1 41.87N 81.28E 15 3.2,3.2
NNC I 24 12 53 34.1–1.8 42.00N 81.18E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=33.8km s-min=18.2km az=159.0.
NNC Event type se. Error ellipse: s-maj=14.4km s-min=12.3km az=2.0.
ISC I 27 21 51 51.1–2.2 39.19N–.09 76.98E–.04 25 54 3-6
SOME I 27 21 51 49.5 39.33N 77.05E 5 ¶15981936
KRNET I 27 21 51 51.0–.10 39.17N 77.39E 2.8b
NNC I 27 21 51 54.1–3.0 39.55N 77.07E 0 3.3b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.2km s-min=12.9km az=176.0.
ISC II 05 08 56 06.5–1.2 39.98N–.04 77.50E–.03 0–7 61 2-7
SOME II 05 08 56 10.4 40.08N 77.47E 0 ¶16498975
NNC II 05 08 56 11.8–5.3 39.86N 77.09E 0 3.8b,3.4
KRNET II 05 08 56 11.8–.10 39.78N 76.91E 3.2b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.8km s-min=21.2km az=107.0.

ISC II 07 14 24 40.9–.31 36.12N–.03 82.00E–.03 10 4.5b,3.7s 171 6-147
NEIC II 07 14 24 38.9–2.3 36.09N 82.13E 4–14 4.7b,3.7s ¶16009149
ISCJB II 07 14 24 38.3–.15 36.14N–.02 82.03E–.03 10 4.4b,3.7s
IDC II 07 14 24 38.6–.57 36.11N 82.14E 0 4.4,4.3
MOS II 07 14 24 39.9–1.5 36.26N 82.12E 18 4.7b,4.3
BJI II 07 14 24 39.3 36.17N 82.16E 10 4.9L,4.6b
NNC II 07 14 24 45.9–1.6 36.47N 81.92E 25 4.7,4.7b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=4.5km az=212.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.3km az=148.9.
IDC Error ellipse: s-maj=15.1km s-min=10.8km az=29.0.
MOS Error ellipse: s-maj=7.8km s-min=4.3km az=107.4.
NNC Event type se. Error ellipse: s-maj=16.0km s-min=11.1km az=125.0.
ISC II 08 03 21 23.2–1.9 39.64N–.07 74.13E–.05 0–14 36 2-4
NNC II 08 03 21 19.2–1.7 39.51N 74.35E 0 3.4b,3.1 ¶16019722
KRNET II 08 03 21 25.2–.10 39.58N 74.01E 2.8b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.6km s-min=8.2km az=137.0.
ISC II 13 11 26 33.6–3.0 39.6N–.10 75.70E–.10 12–15 23 2-5
KRNET II 13 11 26 34.5–.10 39.94N 75.95E 2.8b ¶16031690
NNC II 13 11 26 37.4–6.8 39.75N 75.40E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=60.1km s-min=26.9km az=128.0.
ISC II 13 14 42 56.3–1.7 39.89N–.08 76.83E–.04 10 64 2-6
NNC II 13 14 42 53.9–4.3 39.40N 77.05E 0 3.6b,3.3 ¶16031667
SOME II 13 14 42 55.5 39.87N 77.20E 15 3.6b,3.3
KRNET II 13 14 42 58.2–.10 40.00N 76.93E 3.2b,3.3
ISCJB II 13 14 42 59.8–1.0 39.72N–.06 76.83E–.05 10 3.2b,3.3
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC II 15 20 20 38.8–1.3 39.88N–.06 74.76E–.04 10 67 2-5
NNC II 15 20 20 37.6–2.0 39.88N 74.86E 0 3.3b,2.9 ¶16031784
SOME II 15 20 20 38.2 39.85N 74.62E 10 3.3b,2.9
KRNET II 15 20 20 38.8–.10 39.80N 74.78E 2.7b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.6km s-min=8.8km az=128.0.
ISC II 21 22 03 11.2–2.3 40.83N–.08 78.02E–.04 3–17 69 2-10
NNC II 21 22 03 12.9–4.2 40.83N 78.03E 0 3.7b,3.3 ¶16159618
SOME II 21 22 03 13.6 40.85N 78.00E 10 3.7b,3.3
KRNET II 21 22 03 14.1–.10 40.93N 77.95E 2.8b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.6km s-min=16.0km az=167.0.
ISC II 27 08 03 00.2–1.5 39.53N–.08 74.05E–.05 10 33 2-4
KRNET II 27 08 03 00.3–.10 39.55N 73.98E 3.1b ¶16647699
ISCJB II 27 08 03 02.2–.98 39.44N–.06 74.01E–.06 10 3.1b
NNC II 27 08 03 04.9–1.8 39.70N 73.77E 0 3.5b,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.5km az=146.4.
NNC Event type se. Error ellipse: s-maj=17.8km s-min=7.5km az=138.0.
ISC III 02 01 18 37.2–.32 39.02N–.04 75.31E–.03 10 4.6b,4.0s 207 4-150
BJI III 02 01 18 33.6 38.95N 75.25E 7 4.7b,4.6b ¶16170167
IDC III 02 01 18 33.1–.57 38.85N 75.48E 0 4.3,4.1
ISCJB III 02 01 18 34.9–.22 39.08N–.03 75.37E–.03 10 4.4b,4.0s
NNC III 02 01 18 38.2–1.8 39.10N 75.20E 0 4.7b,4.5
NEIC III 02 01 18 40.3–.75 39.03N 75.33E 43–6 4.8b,4.5
MOS III 02 01 18 41.9–1.7 39.24N 75.55E 56 4.6b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=10.6km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.6km az=173.4.
NNC Event type se. Error ellipse: s-maj=14.4km s-min=10.0km az=169.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.4km az=164.0.
MOS Error ellipse: s-maj=7.4km s-min=4.3km az=98.9.
ISC III 03 02 41 26.5–.60 38.82N–.05 75.36E–.06 10 3.9b 47 4-79
IDC III 03 02 41 24.8–1.2 38.89N 75.31E 0 3.9,3.9b ¶16268772
ISCJB III 03 02 41 24.9–.38 38.91N–.04 75.34E–.06 10 3.8b,3.9b
NEIC III 03 02 41 25.6–1.1 38.73N 75.27E 10 4.5b,3.9b
BJI III 03 02 41 25.7 38.95N 75.22E 7 3.7L,3.9b
NNC III 03 02 41 30.6–3.0 39.10N 75.14E 0 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.0km s-min=16.5km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=4.5km az=135.2.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=12.5km az=161.0.
NNC Event type se. Error ellipse: s-maj=26.3km s-min=11.5km az=134.0.
ISC III 03 10 16 32.9–2.3 39.8N–.10 74.22E–.05 10 31 3-14
SOME III 03 10 16 25.9 39.70N 74.37E 15 ¶16553056
NNC III 03 10 16 30.1–7.2 39.57N 74.17E 0 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=53.8km s-min=34.8km az=177.0.
ISC III 03 11 20 36.6–1.7 40.72N–.08 79.56E–.05 10 44 2-20
IDC III 03 11 20 36.8–3.9 40.71N 80.08E 0 3.2,3.2 ¶16484291
SOME III 03 11 20 37.0 40.67N 79.48E 15 3.2,3.2
NNC III 03 11 20 38.0–1.5 40.78N 79.63E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=51.0km s-min=29.6km az=166.0.
NNC Event type se. Error ellipse: s-maj=11.9km s-min=6.8km az=152.0.
ISC III 06 05 07 00.2–3.5 41.1N–.20 82.90E–.09 10 17 3-6
NNC III 06 05 06 58.6–4.4 40.98N 82.75E 0 3.1b,2.8 ¶16557129
SOME III 06 05 07 12.7 41.30N 82.30E 20 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.0km s-min=25.7km az=145.0.
ISC III 09 17 44 17.2–.68 37.21N–.07 78.58E–.08 35 3.4b 21 3-80
IDC III 09 17 44 11.7–1.0 37.22N 78.45E 0 3.6,3.5 ¶17193571
ISCJB III 09 17 44 14.6–.47 37.13N–.06 78.61E–.09 33 3.4b,3.5
BJI III 09 17 44 16.8 37.23N 78.61E 15 3.3L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=20.2km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.8km az=147.7.
ISC III 10 01 47 18.1–1.6 40.89N–.07 78.38E–.04 10 65 2-9
SOME III 10 01 47 14.7 40.82N 78.52E 5 ¶16577572
KRNET III 10 01 47 14.4–.10 40.78N 78.36E 26 3.2b
NNC III 10 01 47 17.9–1.2 40.90N 78.27E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.3km s-min=6.7km az=144.0.
ISC III 13 08 32 38.8–1.4 39.53N–.04 75.29E–.04 3–9 3.6b 47 1-83
KRNET III 13 08 32 37.8–.10 39.31N 75.14E 4.2b ¶16461592
IDC III 13 08 32 38.4–.96 39.39N 75.19E 0 3.9,3.6
NNC III 13 08 32 40.5–2.5 39.66N 75.13E 0 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=32.6km s-min=19.1km az=64.0.
NNC Event type se. Error ellipse: s-maj=20.0km s-min=9.6km az=154.0.
ISC III 17 15 34 31.5–.55 40.47N–.02 78.99E–.02 11–3 4.9b,4.2s 417 2-150
IDC III 17 15 34 29.4–.53 40.33N 79.12E 0 4.5,4.5 ¶16331392
BJI III 17 15 34 30.4 40.38N 79.09E 6 5.0L,4.9b
KRNET III 17 15 34 30.4–.10 40.39N 79.29E 5.3b,4.9b
ISCJB III 17 15 34 30.4–.84 40.41N–.02 79.15E–.03 15–6 4.8b,4.2s
MOS III 17 15 34 33.0–.97 40.52N 79.14E 31 5.0b,4.1s
NNC III 17 15 34 34.8–2.1 40.61N 79.04E 0 5.1b,4.7
SOME III 17 15 34 34.7 40.52N 79.18E 15 4.6s,4.7
NEIC III 17 15 34 34.9–1.1 40.48N 79.08E 33–7 5.0b,4.7
GCMT III 17 15 34 34.9–.40 40.39N 78.90E 16–1 4.9W,4.7
ISC Event type se.
IDC Error ellipse: s-maj=12.1km s-min=9.8km az=8.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=3.1km az=37.6.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=109.4.
NNC Event type se. Error ellipse: s-maj=20.5km s-min=10.5km az=139.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=188.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c12; s67,c102; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.88±.17 $M_{\theta\theta}$-1.49±.12; $M_{\phi\phi}$-0.39±.10; $M_{r\theta}$1.44±.35; $M_{\theta\phi}$-0.89±.07; $M_{\phi r}$-2.22±.45; Best double couple: NP1:ϕ_s104.00000°,δ67.00000°,λ125.00000°. NP2:ϕ_s224.00000°,δ41.00000°,λ37.00000°. Principal axes:

T 3.7820,Plg54.0000°,Azm58.0000°; N -1.7480,Plg32.0000°,Azm269.0000° ; P -2.0330,Plg14.0000°,Azm169.0000° M◎2.90700×10^16

ISC III 17 15 52 06.8–1.1 40.52N–.06 79.16E–.05 10 3.9s,3.5b 48 3-77
IDC III 17 15 52 02.3–1.7 40.14N 79.06E 0 3.9,3.9s ¶16342120
SOME III 17 15 52 07.0 40.53N 79.17E 5 3.9,3.9s
NNC III 17 15 52 09.7–2.5 40.61N 79.03E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=32.2km s-min=22.0km az=175.0.
NNC Event type se. Error ellipse: s-maj=22.7km s-min=12.3km az=150.0.
ISC III 24 02 38 46.7–1.7 39.54N–.07 74.29E–.04 9–9 3.7b 54 1-81
IDC III 24 02 38 44.3–1.2 39.50N 74.48E 0 3.8,3.7b ¶16375784
KRNET III 24 02 38 46.5–.10 39.71N 74.38E 3.8b,3.7b
ISCJB III 24 02 38 47.6–1.1 39.48N–.04 74.26E–.05 27–8 4.5s,3.6b
NNC III 24 02 38 48.1–1.9 39.73N 74.34E 0 4.1b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=15.0km az=97.0.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=6.8km az=148.2.
NNC Event type se. Error ellipse: s-maj=16.0km s-min=5.6km az=171.0.
ISC III 31 12 08 41.3–2.1 41.61N–.09 81.98E–.07 18 50 2-6
SOME III 31 12 08 36.2 41.45N 82.08E 10 ¶16705055
NNC III 31 12 08 38.7–6.3 41.62N 82.21E 0 3.6b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=48.4km s-min=27.9km az=151.0.
ISC IV 02 10 29 13.3–1.7 39.40N–.06 74.44E–.03 7–10 3.7s,3.6b 102 1-87
IDC IV 02 10 29 11.5–.99 39.43N 74.53E 0 3.8,3.7 ¶16410231
KRNET IV 02 10 29 13.1–.10 39.60N 74.52E 3.7b,3.7
SOME IV 02 10 29 13.3 39.77N 74.50E 0 3.7b,3.7
NNC IV 02 10 29 14.8–.52 39.67N 74.53E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=28.1km s-min=16.0km az=83.0.
NNC Event type se. Error ellipse: s-maj=4.7km s-min=1.7km az=175.0.
ISC IV 04 18 03 02.5–2.7 39.2N–.10 77.15E–.09 25 15 2-6
NNC IV 04 18 02 58.5–9.1 39.45N 77.07E 0 3.6b,3.2 ¶16415513
KRNET IV 04 18 03 00.3–.10 39.37N 77.07E 3.0b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=83.5km s-min=31.5km az=154.0.
ISC IV 05 20 07 22.9–2.5 41.9N–.10 81.15E–.08 10 28 2-5
SOME IV 05 20 07 23.3 42.07N 81.30E 10 ¶16444098
ISC Event type ke.
ISC IV 11 21 05 51.5–2.5 41.8N–.10 82.02E–.07 18 31 2-5
SOME IV 11 21 05 52.6 42.37N 82.32E 10 ¶16725876
NNC IV 11 21 05 53.7–2.7 42.09N 82.10E 0 3.4b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.4km s-min=10.2km az=149.0.
ISC IV 12 18 44 15.6–1.7 39.54N–.05 74.20E–.04 3–10 3.8b 85 1-84
KRNET IV 12 18 44 13.8–.10 39.38N 74.03E 4.3b ¶16505350
NNC IV 12 18 44 13.3–2.0 39.71N 74.54E 0 4.2b,3.8
BJI IV 12 18 44 14.9 39.82N 74.19E 6 3.5L,3.8
SOME IV 12 18 44 15.0 39.70N 74.32E 10 3.5L,3.8
IDC IV 12 18 44 18.6–3.6 39.55N 74.51E 34–27 3.6,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.5km s-min=7.3km az=171.0.
IDC Error ellipse: s-maj=20.2km s-min=15.6km az=5.0.
ISC IV 16 20 50 10.0–.29 38.15N–.03 75.93E–.03 120 4.6b 369 1-88
ISCJB IV 16 20 50 08.6–.14 38.18N–.02 76.01E–.02 120 4.6b ¶16442384
MOS IV 16 20 50 09.8–.97 38.22N 75.98E 129 4.6b
NEIC IV 16 20 50 10.1–.54 38.20N 75.96E 120–4 4.6b
BJI IV 16 20 50 10.4 38.24N 76.06E 120 4.8b,4.6b
NNC IV 16 20 50 10.5–3.5 38.57N 75.93E 0 5.0b,4.5
IDC IV 16 20 50 11.3–2.3 38.15N 75.98E 132–20 4.5,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.7km s-min=2.2km az=164.5.
MOS Error ellipse: s-maj=6.4km s-min=3.7km az=117.1.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.6km az=184.0.
NNC Event type se. Error ellipse: s-maj=29.4km s-min=14.1km az=173.0.
IDC Error ellipse: s-maj=12.4km s-min=8.4km az=3.0.
ISC IV 21 04 54 38.6–1.9 39.63N–.07 74.42E–.04 1–13 54 1-14
SOME IV 21 04 54 42.2 39.62N 74.42E 15 ¶16872828
KRNET IV 21 04 54 42.6–.10 39.65N 74.35E 3.1b
NNC IV 21 04 54 43.0–2.5 39.88N 74.42E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.3km s-min=8.6km az=160.0.
ISC IV 21 22 09 53.7–2.2 39.5N–.10 74.14E–.06 28 14 1-6
NNC IV 21 22 09 55.3–1.1 39.61N 73.95E 0–6 2.7b,2.4 ¶16462872
KRNET IV 21 22 09 56.8–.10 39.76N 74.01E 1.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.7km s-min=6.8km az=49.0.
ISC IV 23 11 14 56.0–2.1 39.74N–.08 74.78E–.04 3–12 42 1-5
KRNET IV 23 11 14 56.0–.10 39.69N 74.76E 20 3.4b ¶16463094
SOME IV 23 11 14 57.5 39.72N 74.80E 5 3.4b
NNC IV 23 11 14 59.6–3.6 39.70N 74.63E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.5km s-min=9.4km az=168.0.
ISC IV 28 10 26 32.0–2.2 39.87N–.10 75.81E–.07 10 28 2-3
KRNET IV 28 10 26 26.1–.10 39.75N 76.03E 3.5b ¶16912162
NNC IV 28 10 26 28.4–3.0 39.61N 75.95E 0 3.9b,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.0km s-min=10.8km az=139.0.
ISC IV 30 12 03 29.5–3.4 41.72N–.10 81.7E–.10 4–18 37 2-8
SOME IV 30 12 03 21.6 41.62N 82.25E 20 ¶16491368
NNC IV 30 12 03 27.7–4.1 42.08N 82.11E 0 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=38.8km s-min=23.3km az=161.0.
ISC V 02 02 52 29.6–4.2 39.5N–.20 77.4E–.20 10 11 2-6
KRNET V 02 02 52 30.1–.10 39.47N 77.50E 2.7b ¶601092570
NNC V 02 02 52 36.3–8.0 37.98N 71.64E 0 3.5b,3.1
ISC Event type ke.
NNC Event type se. Error ellipse: s-maj=60.5km s-min=47.0km az=170.0.
ISC V 04 13 58 59.4–3.9 41.9N–.20 85.4E–.10 23 9 4-5
SOME V 04 13 58 35.6 42.15N 86.10E 0 ¶16915442
NNC V 04 13 58 36.3–6.6 42.05N 86.17E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=48.0km s-min=25.4km az=140.0.
ISC V 06 14 29 02.8–1.1 41.86N–.07 83.19E–.03 10 3.8b 50 3-75
SOME V 06 14 28 57.2 41.63N 83.42E 10 3.8b ¶16709033
IDC V 06 14 29 01.7–3.8 41.84N 83.17E 0 3.9b,3.8
BJI V 06 14 29 04.9 41.87N 83.19E 9 3.9b,3.5L
NNC V 06 14 29 08.0–2.5 42.13N 83.14E 5–10 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=90.0km s-min=23.8km az=100.0.
NNC Event type se. Error ellipse: s-maj=18.3km s-min=6.9km az=146.0.
ISC V 06 22 37 59.5–2.4 41.54N–.08 83.17E–.09 10 31 3-6
NNC V 06 22 37 50.0–1.6 41.40N 83.63E 0 3.3b,2.9 ¶16918921
SOME V 06 22 38 00.0 41.40N 83.07E 5 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.5km s-min=6.9km az=144.0.
ISC V 09 08 12 16.1–.97 40.87N–.09 83.78E–.05 10 3.8b,3.1s 52 4-76
NNC V 09 08 12 12.5–3.2 40.49N 83.75E 0 4.5b,4.3 ¶16709245
BJI V 09 08 12 15.5 41.02N 83.61E 7 4.6b,4.3b
SOME V 09 08 12 15.5 40.18N 81.55E 5 4.6b,4.3b
IDC V 09 08 12 16.3–1.0 41.10N 83.58E 0 3.7,3.7b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.5km s-min=23.8km az=42.0.
IDC Error ellipse: s-maj=21.8km s-min=17.6km az=36.0.
ISC V 10 07 24 38.3–1.5 39.72N–.05 75.33E–.04 10–14 16 1-3
KRNET V 10 07 24 41.3–.10 39.91N 75.14E 3.1b ¶601092629
ISC Event type ke.
ISC V 10 21 53 48.8–3.9 42.0N–.10 82.2E–.10 13 18 2-5
SOME V 10 21 53 45.1 42.02N 82.48E 15 ¶16522895
ISC Event type ke.
ISC V 10 22 22 00.8–1.9 41.68N–.08 81.17E–.06 10 48 2-9
SOME V 10 22 21 58.2 41.57N 81.25E 10 ¶16522891
NNC V 10 22 22 01.0–1.2 41.77N 81.24E 0 3.8b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.5km s-min=4.8km az=143.0.
ISC V 10 22 40 12.4–.92 40.7N–.10 91.63E–.06 10 3.8b 31 4-51
IDC V 10 22 40 06.8–2.8 40.18N 91.87E 0 3.9b,3.8 ¶16522882
ISCJB V 10 22 40 09.2–.68 40.71N–.09 91.76E–.07 10 3.8b,3.8
NNC V 10 22 40 16.8–3.3 40.79N 91.67E 74–31 3.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=75.2km s-min=35.3km az=41.0.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=5.2km az=25.6.
NNC Event type se. Error ellipse: s-maj=28.8km s-min=23.9km az=173.0.
ISC V 11 13 47 57.3–1.1 41.50N–.04 81.49E–.03 10–8 3.8b 109 2-81
IDC V 11 13 47 55.8–.75 41.62N 81.15E 0 3.8,3.8b ¶16522992
SOME V 11 13 47 58.6 41.73N 81.18E 10 3.0s,3.8b
NNC V 11 13 47 58.4–.53 41.63N 81.38E 0–3 4.3b,4.0
BJI V 11 13 47 59.9 41.67N 81.17E 7 3.9b,3.8L
MOS V 11 13 47 59.2–1.4 41.63N 81.38E 33 4.1b,3.8L
NEIC V 11 13 48 02.7–1.4 41.75N 81.26E 51–12 4.0b,3.8L
ISC Event type se.
IDC Error ellipse: s-maj=15.2km s-min=11.7km az=52.0.
NNC Event type se. Error ellipse: s-maj=4.2km s-min=3.2km az=159.0.
MOS Error ellipse: s-maj=12.2km s-min=7.5km az=117.1.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=10.9km az=170.0.
ISC V 11 20 28 42.6–2.1 41.69N–.09 81.03E–.07 10 40 2-5
NNC V 11 20 28 41.1–1.0 41.54N 81.25E 6–6 3.5b,3.1 ¶16522949
SOME V 11 20 28 41.6 41.60N 80.97E 15 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.4km s-min=7.6km az=161.0.
SOME V 11 20 29 09.3 41.53N 81.32E 5 ¶16522946
ISC V 13 06 48 13.3–.32 41.96N–.03 82.28E–.02 13 4.7b,3.6s 252 2-149
IDC V 13 06 48 10.6–.67 41.95N 82.37E 0 4.4,4.2 ¶16508008
ISCJB V 13 06 48 11.3–.24 41.93N–.03 82.51E–.03 13 4.5b,3.6s
SOME V 13 06 48 12.6 41.92N 82.17E 15 4.1s,3.6s
BJI V 13 06 48 12.0 41.97N 82.33E 7 4.6b,4.6L
MOS V 13 06 48 14.2–1.0 41.99N 82.39E 33 4.7b,4.6L
NNC V 13 06 48 14.7–2.3 42.14N 82.49E 4–12 5.2b,4.8
NEIC V 13 06 48 16.2–1.5 41.98N 82.36E 34–10 4.8b,4.8
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=11.8km az=17.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=22.1.
MOS Error ellipse: s-maj=7.3km s-min=5.5km az=113.3.
NNC Event type se. Error ellipse: s-maj=18.5km s-min=9.0km az=140.0.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=4.3km az=173.0.
ISC V 13 22 20 51.9–3.4 42.0N–.10 81.94E–.09 3–18 33 2-5
NNC V 13 22 20 54.2–9.4 42.12N 81.83E 0 3.2b,2.8 ¶16946176
SOME V 13 22 20 54.3 41.77N 81.48E 10 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=74.4km s-min=36.0km az=165.0.
ISC V 14 05 56 23.6–1.0 37.27N–.08 79.07E–.08 28 3.5b 19 3-80
ISCJB V 14 05 56 21.5–.91 37.28N–.07 79.1E–.10 28 3.3b ¶16709826
BJI V 14 05 56 22.7 37.42N 79.07E 6 3.5L
IDC V 14 05 56 24.6–8.2 37.25N 78.90E 33–62 3.9L,3.5
NNC V 14 05 56 36.5–8.4 38.05N 81.08E 0 3.9b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=10.5km az=11.0.
IDC Error ellipse: s-maj=31.4km s-min=22.6km az=14.0.
NNC Event type se. Error ellipse: s-maj=64.4km s-min=48.6km az=166.0.
ISC V 17 16 00 31.3–2.7 41.9N–.10 81.71E–.09 10 26 2-5
SOME V 17 16 00 26.4 41.68N 81.77E 10 ¶16951463
NNC V 17 16 00 29.5–2.3 41.89N 81.63E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.6km s-min=10.3km az=164.0.
ISC V 17 22 18 15.6–.43 41.87N–.04 82.30E–.03 13 4.1b,3.1s 172 2-81
IDC V 17 22 18 14.3–.77 42.10N 82.33E 0 4.2,4.0 ¶16560092
SOME V 17 22 18 15.3 41.92N 82.25E 15 3.8s,4.0
BJI V 17 22 18 15.1 41.98N 82.29E 8 4.4b,4.2L
MOS V 17 22 18 16.6–1.2 41.98N 82.34E 33 4.2b,4.2L
NNC V 17 22 18 17.5–1.1 42.13N 82.17E 0 4.5b,4.3
NEIC V 17 22 18 22.0–.94 42.21N 82.24E 55–7 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=13.0km az=15.0.
MOS Error ellipse: s-maj=8.9km s-min=5.3km az=112.1.
NNC Event type se. Error ellipse: s-maj=9.0km s-min=5.1km az=138.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.2km az=157.0.
ISC V 18 20 06 02.4–1.6 40.84N–.04 79.74E–.04 14–10 3.9b 88 2-82
IDC V 18 20 05 59.6–1.1 40.76N 79.97E 0 3.8,3.8s ¶16710217
KRNET V 18 20 06 01.9–.10 40.90N 80.12E 4.0b,3.8s
BJI V 18 20 06 02.3 40.79N 80.04E 7 3.6L,3.8s
SOME V 18 20 06 05.0 41.00N 79.98E 5 3.6L,3.8s
NNC V 18 20 06 08.0–3.0 41.19N 80.67E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=16.7km az=4.0.
NNC Event type se. Error ellipse: s-maj=23.3km s-min=11.7km az=146.0.
ISC V 19 19 32 56.7–2.6 41.8N–.10 82.41E–.09 13 19 2-5
SOME V 19 19 32 43.3 41.37N 82.78E 20 ¶16956184
NNC V 19 19 32 54.9–3.9 42.48N 83.03E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=35.0km s-min=18.9km az=132.0.
ISC V 22 05 52 49.1–1.4 37.2N–.10 85.0E–.20 10 3.5b 13 7-73
IDC V 22 05 52 46.0–1.8 36.95N 84.79E 0 3.7,3.6 ¶16637134
BJI V 22 05 52 47.4 37.05N 84.79E 9 3.5L,3.4s
NNC V 22 05 52 53.1–3.8 37.48N 84.81E 0 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=54.9km s-min=25.8km az=65.0.
NNC Event type se. Error ellipse: s-maj=35.6km s-min=28.7km az=58.0.
ISC V 22 10 52 02.9–.26 41.87N–.03 82.21E–.02 13 4.7b,4.0s 422 2-152
IDC V 22 10 52 00.9–.48 41.99N 82.33E 0 4.4,4.4 ¶16532381
ISCJB V 22 10 52 01.4–.15 41.94N–.02 82.31E–.02 13 4.6b,4.0s
BJI V 22 10 52 02.1 41.95N 82.28E 10 4.6b,4.6L
NNC V 22 10 52 04.6–1.4 42.06N 82.19E 1–6 5.0b,4.7
MOS V 22 10 52 04.6–1.0 42.02N 82.34E 34 4.8b,4.7
SOME V 22 10 52 06.9 41.93N 81.95E 5 4.4s,4.7
NEIC V 22 10 52 06.6–.48 42.01N 82.32E 37–4 4.9b,4.7
ISC Event type se.
IDC Error ellipse: s-maj=10.5km s-min=8.9km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.5km az=31.1.
NNC Event type se. Error ellipse: s-maj=10.2km s-min=5.6km az=127.0.
MOS Error ellipse: s-maj=6.3km s-min=4.3km az=121.5.
NEIC Event type se. Error ellipse: s-maj=4.3km s-min=3.2km az=174.0.
ISC V 22 11 03 23.9–2.4 41.9N–.10 82.06E–.08 14 27 2-5
SOME V 22 11 03 21.5 42.13N 82.42E 0 ¶16637105
NNC V 22 11 03 26.2–3.1 42.09N 82.21E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.2km s-min=16.9km az=142.0.
ISC V 23 13 22 31.5–.46 39.39N–.04 74.85E–.03 32–3 4.7b,3.7s 327 1-98
BJI V 23 13 22 27.9 39.48N 74.66E 20 4.6b,4.5b ¶16535867
ISCJB V 23 13 22 30.5–.41 39.41N–.02 74.93E–.03 37–4 4.5b,3.6s
NNC V 23 13 22 30.1–1.7 39.46N 74.80E 0 5.0b,4.7
IDC V 23 13 22 31.2–.64 39.38N 74.89E 29–4 4.5,4.4
NEIC V 23 13 22 31.6–.44 39.40N 74.85E 32–3 4.7b,4.4
MOS V 23 13 22 33.9–1.1 39.65N 74.87E 57 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=3.1km az=140.3.
NNC Event type se. Error ellipse: s-maj=16.3km s-min=7.8km az=145.0.
IDC Error ellipse: s-maj=10.2km s-min=9.1km az=123.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.4km az=168.0.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=106.2.
ISC V 23 20 10 59.4–4.0 41.8N–.20 82.7E–.10 13 17 3-5
SOME V 23 20 10 57.2 42.15N 82.45E 10 ¶16637176

NNC V 23 20 11 01.2–2.8 42.00N 82.51E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.0km s-min=12.0km az=156.0.
ISC V 23 23 13 20.6–.48 41.94N–.04 82.31E–.03 13 4.0b 123 2-84
SOME V 23 23 13 19.7 42.05N 82.30E 10 3.3s **¶16637157**
IDC V 23 23 13 19.2–.71 41.97N 82.30E 0 4.0,4.0b
BJI V 23 23 13 23.2 41.98N 82.27E 15 4.0L,3.8b
NNC V 23 23 13 24.2–2.8 42.12N 82.21E 0–13 4.4b,4.0
MOS V 23 23 13 24.6–1.3 42.10N 82.30E 51 4.1b,4.0
NEIC V 23 23 13 26.1–.79 42.05N 82.28E 50–6 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=12.0km az=48.0.
NNC Event type se. Error ellipse: s-maj=18.5km s-min=11.4km az=141.0.
MOS Error ellipse: s-maj=8.5km s-min=6.0km az=110.6.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.3km az=155.0.
ISC V 26 01 01 50.1–1.6 39.57N–.06 74.21E–.03 4–15 52 2-14
SOME V 26 01 01 53.2 39.63N 74.15E 10 **¶16637389**
KRNET V 26 01 01 53.0–.10 39.51N 74.09E 3.3b
NNC V 26 01 01 56.8–1.8 39.73N 74.21E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.7km s-min=10.3km az=129.0.
ISC V 27 03 19 05.7–.67 38.23N–.05 75.36E–.06 100 39 1-69
ISCJB V 27 03 19 04.6–.39 38.16N–.03 75.27E–.06 100 3.5b **¶16637497**
BJI V 27 03 19 08.6 38.35N 75.39E 125 4.4b,4.1b
NNC V 27 03 19 10.5–1.4 38.41N 75.03E 129–22 4.2,3.2b
IDC V 27 03 19 11.4–7.1 38.49N 75.08E 143–58 3.7,3.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.9km az=152.8.
NNC Event type se. Error ellipse: s-maj=13.5km s-min=6.2km az=140.0.
IDC Error ellipse: s-maj=73.1km s-min=23.9km az=169.0.
ISC V 27 12 01 32.7–1.1 39.80N–.03 75.38E–.02 1–7 4.0b,3.4s 163 1-83
IDC V 27 12 01 30.3–.78 39.57N 75.42E 0 4.1,4.0 **¶16637442**
KRNET V 27 12 01 33.8–.10 39.81N 75.47E 4.4b,4.0
MOS V 27 12 01 33.1–1.6 39.61N 75.35E 28 4.2b,4.0
NNC V 27 12 01 34.8–.75 39.78N 75.28E 0 4.4b,4.2
BJI V 27 12 01 34.5 39.78N 75.38E 10 4.4b,4.2b
NEIC V 27 12 01 35.6–.63 39.60N 75.37E 35 4.4b,4.2b
SOME V 27 12 01 35.3 39.85N 75.38E 5 3.1s,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=13.2km az=76.0.
MOS Error ellipse: s-maj=11.4km s-min=5.4km az=98.3.
NNC Event type se. Error ellipse: s-maj=7.4km s-min=3.9km az=143.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=9.6km az=211.0.
ISC V 28 07 10 09.1–.53 40.82N–.04 81.51E–.04 17 3.9b,3.4s 82 3-83
BJI V 28 07 10 04.7 40.70N 81.42E 10 4.4b,4.3b **¶16637510**
IDC V 28 07 10 04.7–.69 40.58N 81.37E 0 4.0,3.9
MOS V 28 07 10 08.8–1.3 40.83N 81.56E 31 4.1b,3.9
SOME V 28 07 10 08.4 41.15N 81.63E 15 3.8s,3.9
NNC V 28 07 10 09.3–1.9 40.91N 81.52E 0 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=16.2km s-min=12.2km az=38.0.
MOS Error ellipse: s-maj=12.6km s-min=7.5km az=114.6.
NNC Event type se. Error ellipse: s-maj=16.2km s-min=10.4km az=138.0.
ISC V 30 04 54 56.8–2.4 41.7N–.10 81.97E–.08 18 31 2-5
SOME V 30 04 54 53.5 41.72N 82.13E 0 **¶17030755**
NNC V 30 04 55 01.4–1.9 42.08N 82.15E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.9km s-min=7.9km az=149.0.
ISC V 30 05 16 55.9–1.0 41.85N–.05 82.12E–.05 14 3.6b 54 2-78
SOME V 30 05 16 53.7 41.80N 82.18E 15 3.6b **¶16702273**
IDC V 30 05 16 54.9–1.2 41.86N 82.27E 0 3.7,3.7b
NNC V 30 05 16 59.8–1.5 42.11N 82.08E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=22.0km s-min=14.8km az=84.0.
NNC Event type se. Error ellipse: s-maj=12.4km s-min=6.1km az=139.0.
ISC V 30 07 44 15.8–1.6 41.66N–.05 81.92E–.04 13–10 3.7b 68 2-81
SOME V 30 07 44 15.7 41.88N 82.12E 10 3.3s **¶16702282**
IDC V 30 07 44 17.2–3.6 42.00N 82.35E 15–21 3.9,3.8
BJI V 30 07 44 17.5 41.97N 82.25E 10 3.9L,3.8
NNC V 30 07 44 19.9–1.4 42.11N 82.08E 0 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=16.8km az=131.0.
NNC Event type se. Error ellipse: s-maj=11.9km s-min=5.7km az=136.0.
ISC V 30 16 19 52.6–1.7 41.95N–.08 82.16E–.07 10 47 2-74
IDC V 30 16 19 51.7–3.4 42.05N 81.92E 0 3.3,3.3 **¶16702317**
SOME V 30 16 19 52.8 41.95N 82.15E 5 3.3,3.3
NNC V 30 16 19 54.2–2.1 42.09N 82.11E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=77.1km s-min=21.0km az=108.0.
NNC Event type se. Error ellipse: s-maj=17.1km s-min=9.1km az=144.0.
ISC VI 03 14 52 23.9–2.0 39.95N–.06 75.87E–.05 12–14 44 1-15
SOME VI 03 14 52 15.8 39.62N 75.70E 10 **¶16637608**
KRNET VI 03 14 52 18.8–.10 39.84N 76.03E 3.0b
NNC VI 03 14 52 18.9–4.7 39.92N 76.04E 0 3.3b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=37.8km s-min=31.0km az=109.0.
ISC VI 07 15 28 06.6–2.9 41.9N–.10 82.4E–.10 13 24 2-5
SOME VI 07 15 28 04.3 41.87N 82.30E 20 **¶16637792**
NNC VI 07 15 28 07.0–3.8 42.03N 81.96E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=35.0km s-min=16.5km az=175.0.
ISC VI 07 17 56 13.2–2.3 41.8N–.10 82.12E–.07 18 47 2-9
SOME VI 07 17 56 13.0 41.65N 82.10E 25 **¶17218425**
NNC VI 07 17 56 15.6–1.9 42.09N 82.07E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.4km s-min=8.2km az=144.0.
ISC VI 07 18 12 53.5–1.4 39.91N–.07 75.77E–.03 10 83 2-11
KRNET VI 07 18 12 50.0–.10 39.93N 75.83E 3.7b **¶17218427**
NNC VI 07 18 12 52.2–1.3 39.94N 75.74E 0 3.8b,3.5
SOME VI 07 18 12 54.8 40.17N 75.92E 10 3.8b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.3km s-min=7.1km az=140.0.
ISC VI 07 21 15 45.6–.47 39.54N–.03 74.89E–.03 10 4.0b 113 1-84
IDC VI 07 21 15 44.3–.80 39.25N 74.75E 0 4.0,3.8 **¶16722625**
BJI VI 07 21 15 44.7 39.45N 74.54E 7 4.3b,3.9b
MOS VI 07 21 15 47.8–1.2 39.29N 74.78E 33 4.2b,3.9b
NNC VI 07 21 15 47.5–1.8 39.38N 74.70E 0 4.2b,3.8
KRNET VI 07 21 15 47.2–.10 39.46N 74.90E 4.2b,3.8
NEIC VI 07 21 15 50.9–.83 39.36N 74.73E 48–7 4.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=14.6km az=20.0.
MOS Error ellipse: s-maj=11.2km s-min=6.5km az=98.3.
NNC Event type se. Error ellipse: s-maj=15.4km s-min=10.1km az=143.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.2km az=172.0.
ISC VI 08 04 57 58.7–1.2 41.87N–.07 82.10E–.05 14 38 2-78
SOME VI 08 04 57 54.6 41.60N 82.27E 25 **¶17205529**
IDC VI 08 04 57 55.7–1.5 41.90N 82.16E 0 3.6,3.6s
NNC VI 08 04 57 56.6–1.1 41.82N 82.42E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=17.3km az=92.0.
NNC Event type se. Error ellipse: s-maj=9.3km s-min=6.1km az=167.0.
ISC VI 17 12 12 33.6–2.0 40.0N–.10 77.19E–.04 10 71 2-6
KRNET VI 17 12 12 32.4–.10 39.93N 77.31E 3.6b **¶17226824**
SOME VI 17 12 12 34.6 40.28N 77.32E 0 3.6b
NNC VI 17 12 12 38.6–1.8 40.39N 77.34E 0 3.8b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.7km s-min=9.1km az=172.0.
IDC VI 20 19 10 42.9–999 41.00N 87.33E 0
¶17206618
IDC Error ellipse: s-maj=667.1km s-min=239.8km az=159.0.
ISC VI 21 03 12 17.7–1.7 39.58N–.08 74.34E–.06 28 28 2-5
KRNET VI 21 03 12 12.5–.10 39.51N 74.33E 2.8b **¶17240314**
NNC VI 21 03 12 17.1–7.2 39.55N 74.09E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=68.3km s-min=29.6km az=133.0.
ISC VI 21 04 59 54.1–.59 35.31N–.07 81.36E–.08 15 3.8b 34 5-83
IDC VI 21 04 59 51.1–.79 35.14N 81.31E 0 4.0,3.8 **¶16720962**
ISCJB VI 21 04 59 52.8–.36 35.38N–.04 81.41E–.08 15 3.8b,3.3s
BJI VI 21 04 59 54.7 35.46N 81.39E 6 4.0b,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=15.8km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.6km az=158.5.
ISC VI 21 15 33 16.3–.43 38.66N–.04 75.07E–.03 20 4.1b,3.2s 152 1-83
IDC VI 21 15 33 12.6–.68 38.64N 75.11E 0 4.1,4.0 **¶16640779**
BJI VI 21 15 33 13.4 38.75N 74.92E 5 4.4b,4.2b
MOS VI 21 15 33 15.6–1.5 38.66N 75.09E 28 4.2b,4.2b
NNC VI 21 15 33 16.9–2.0 38.84N 74.94E 0 4.4b,4.2
SOME VI 21 15 33 18.1 39.03N 75.18E 10 3.7s,4.2
NEIC VI 21 15 33 18.7–1.1 38.75N 75.10E 41–10 4.2b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=13.2km az=61.0.
MOS Error ellipse: s-maj=10.0km s-min=5.6km az=101.7.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=9.6km az=148.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.8km az=146.0.

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ISC II 22 12 38 35.3–.72 37.63N–.09 102.20E–.10 10 3.7b 17 2-76
ISCJB II 22 12 38 32.7–.52 37.62N–.07 102.29E–.09 10 3.5b **¶16159709**
IDC II 22 12 38 34.6–1.3 37.72N 102.13E 0 3.8,3.7
BJI II 22 12 38 34.3 37.62N 102.25E 8 3.9L,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=5.1km az=138.8.
IDC Error ellipse: s-maj=25.8km s-min=21.2km az=43.0.
ISC II 23 13 32 12.3–.32 34.24N–.03 103.75E–.03 10 4.4b,3.6s 164 2-146
ISCJB II 23 13 32 10.3–.22 34.23N–.02 103.80E–.03 10 4.3b,3.5s **¶16152142**
IDC II 23 13 32 10.2–.63 34.26N 103.90E 0 4.2,4.1
BJI II 23 13 32 11.5 34.25N 103.84E 8 4.4b,4.2b
MOS II 23 13 32 12.0–1.3 34.23N 103.76E 22 4.7b,4.2b
NEIC II 23 13 32 13.0–1.6 34.42N 103.86E 12–10 4.6b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=3.4km az=162.7.
IDC Error ellipse: s-maj=18.4km s-min=13.3km az=35.0.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=107.9.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.0km az=70.0.
ISC III 02 11 43 16.8–.80 34.17N–.05 104.98E–.06 10 3.6b 12 2-64
ISCJB III 02 11 43 11.9–.76 34.12N–.06 105.10E–.06 10 3.4b **¶17193128**
IDC III 02 11 43 15.3–1.5 33.50N 104.70E 0 3.4,3.4b
BJI III 02 11 43 16.8 34.18N 104.93E 6 3.8b,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.9km az=6.9.
IDC Error ellipse: s-maj=61.5km s-min=23.6km az=62.0.
ISC III 26 23 02 15.1–.95 34.42N–.04 105.1E–.10 10 3.5b 17 2-78
IDC III 26 23 02 12.7–1.2 34.43N 105.03E 0 4.3,4.3s **¶16363920**
BJI III 26 23 02 15.6 34.49N 104.75E 6 3.7L,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=47.4km s-min=23.9km az=62.0.
ISC V 27 06 28 52.8–.90 35.79N–.08 103.9E–.10 10 3.7b 14 0-77
ISCJB V 27 06 28 51.2–.69 35.78N–.09 104.1E–.10 10 3.7b **¶16637482**
IDC V 27 06 28 51.3–.90 35.73N 104.35E 0 3.9,3.7
BJI V 27 06 28 53.2 35.76N 103.98E 6 3.7L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=7.6km az=144.2.
IDC Error ellipse: s-maj=31.9km s-min=17.8km az=63.0.

(323) Western Nei Mongol.

IDC I 05 13 20 08.2–5.8 39.36N 110.81E 0 3.3,3.1
¶17189507
IDC Error ellipse: s-maj=119.0km s-min=26.3km az=84.0.
BJI I 17 09 44 52.3 39.13N 104.88E 10 3.5L
¶17539277
ISC I 23 05 59 24.6–.90 39.2N–.10 106.2E–.20 35 3.9b 11 9-78
IDC I 23 05 59 19.4–.80 39.08N 106.14E 0 3.8,3.7 **¶15963779**
ISCJB I 23 05 59 22.3–.72 39.2N–.10 106.2E–.20 33 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC II 10 14 28 09.5–5.7 39.42N 110.75E 0 3.7,3.6
¶17192013
IDC Error ellipse: s-maj=121.1km s-min=28.7km az=84.0.
IDC II 21 09 55 24.8–1.4 39.41N 110.51E 0 3.7,3.6b
¶17192627
IDC Error ellipse: s-maj=29.1km s-min=22.7km az=76.0.
ISC II 25 09 04 32.3–1.1 39.0N–.10 110.6E–.20 35 3.7b 8 9-73
IDC II 25 09 04 27.1–.92 39.02N 110.65E 0 3.9,3.7 **¶16161022**
ISCJB II 25 09 04 30.0–.88 39.1N–.10 110.7E–.20 33 3.6b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC III 01 16 31 20.3–1.2 38.9N–.10 110.5E–.20 35 3.7b 7 9-73
IDC III 01 16 31 15.2–1.2 38.85N 110.50E 0 3.8,3.6 **¶17193083**
ISCJB III 01 16 31 18.1–1.1 38.9N–.10 110.5E–.30 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC III 08 11 25 54.8–8.8 41.81N 109.83E 0 2.9,2.9
¶17193466
IDC Error ellipse: s-maj=93.6km s-min=62.4km az=69.0.
IDC III 09 17 27 44.4–7.0 41.89N 98.47E 0 3.5,3.5
¶17193570
IDC Error ellipse: s-maj=83.4km s-min=27.9km az=168.0.
ISC III 21 21 22 13.7–1.6 39.13N–.07 110.7E–.10 10 3.8b 12 2-27
IDC III 21 21 22 11.8–4.8 39.06N 110.63E 0 3.9,3.8 **¶17197761**
ISCJB III 21 21 22 12.2–1.2 39.09N–.06 110.6E–.20 10 3.6b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 31 05 11 00.3–1.8 39.42N 110.65E 0 4.0,3.8
¶17199255
IDC Error ellipse: s-maj=38.5km s-min=28.1km az=93.0.
OBM IV 11 09 01 11.2–.20 40.44N 104.61E 15 3.8L
¶603822505
OBM Error ellipse: s-maj=17.4km s-min=3.6km az=89.0.
BJI IV 19 11 57 41.2 40.15N 104.39E 9 3.6L
¶17539335
IDC IV 21 02 29 01.1–1.7 39.06N 110.76E 0 3.9,3.7
¶17201663
IDC Error ellipse: s-maj=36.9km s-min=23.5km az=89.0.
IDC IV 21 19 59 34.2–6.3 39.03N 110.63E 0 3.3,3.1
¶17201735
IDC Error ellipse: s-maj=132.8km s-min=31.8km az=85.0.
IDC V 16 20 47 34.5–1.4 39.40N 110.48E 0 3.8,3.7
¶17203773
IDC Error ellipse: s-maj=30.2km s-min=23.3km az=83.0.
IDC V 27 21 55 10.0–5.2 39.13N 110.60E 0 3.7,3.5
¶17204596
IDC Error ellipse: s-maj=109.6km s-min=24.1km az=85.0.
IDC VI 03 17 08 42.3–1.7 39.11N 110.58E 0 3.6,3.4
¶17205110
IDC Error ellipse: s-maj=49.4km s-min=21.8km az=70.0.
IDC VI 29 08 56 31.4–5.5 39.41N 110.40E 0 3.6,3.5
¶17207181
IDC Error ellipse: s-maj=117.1km s-min=24.5km az=84.0.

(324) Kashmir-Xinjiang border region.

ISC III 23 05 55 55.5–.23 36.29N–.03 76.44E–.03 96–1 5.1b 781 3-154
MOS III 23 05 55 52.7–.97 36.32N 76.48E 79 5.3b **¶16342725**

GCMT III 23 05 55 53.8–.50 36.13N 76.51E 77–3 4.8W
ISCJB III 23 05 55 53.8–.11 36.25N–.02 76.48E–.02 94 5.0b
NEIC III 23 05 55 53.8–.48 36.28N 76.49E 77–4 5.1b
BJI III 23 05 55 55.4 36.38N 76.58E 101 4.8b,4.8b
IDC III 23 05 55 56.3–.30 36.30N 76.48E 100–2 5.0,4.8
NNC III 23 05 55 56.2–3.0 36.41N 76.22E 121–18 4.9,4.4b
ISC Event type fe.
MOS Error ellipse: s-maj=5.6km s-min=3.1km az=114.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c27; s62,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.94±.10 $M_{\theta\theta}$-2.22±.11; $M_{\phi\phi}$0.27±.12; $M_{r\theta}$0.18±.10; $M_{\theta\phi}$0.23±.11; $M_{\phi r}$0.18±.08; Best double couple: NP1:ϕ_s89.00000°,δ48.00000°,λ81.00000°. NP2:ϕ_s282.00000°,δ43.00000°,λ100.00000°. Principal axes: T 1.9700,Plg83.0000°,Azm293.0000°; N 0.2760,Plg7.0000°,Azm95.0000°; P -2.2480,Plg2.0000°,Azm185.0000° M_o2.10900×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.2km az=41.0.
NEIC Event type fe. Error ellipse: s-maj=3.8km s-min=2.7km az=185.0. Felt at Kargil and Srinagar, India.
IDC Error ellipse: s-maj=7.7km s-min=6.6km az=11.0.
NNC Event type se. Error ellipse: s-maj=24.3km s-min=17.1km az=172.0.
ISC IV 02 04 24 47.2–.42 36.52N–.03 76.69E–.04 67–4 4.5b 313 3-93
ISCJB IV 02 04 24 46.3–.35 36.57N–.02 76.74E–.03 71–3 4.5b **¶16403566**
MOS IV 02 04 24 47.6–1.1 36.57N 76.69E 82 4.4b
BJI IV 02 04 24 49.3 36.79N 76.84E 93 4.9b,4.6b
NEIC IV 02 04 24 49.5–.62 36.61N 76.71E 87–5 4.6b,4.6b
IDC IV 02 04 24 50.7–2.4 36.61N 76.69E 100–21 4.4,4.2
NNC IV 02 04 24 51.8–2.0 36.74N 76.67E 113–20 4.2,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=162.1.
MOS Error ellipse: s-maj=7.2km s-min=4.3km az=104.1.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.4km az=179.0.
IDC Error ellipse: s-maj=13.2km s-min=9.8km az=11.0.
NNC Event type se. Error ellipse: s-maj=15.5km s-min=11.3km az=169.0.
ISC V 22 07 46 25.5–.51 36.06N–.04 78.12E–.05 88 3.5b 73 4-81
IDC V 22 07 46 15.4–.77 35.80N 78.12E 0 4.4L,3.8 **¶16637127**
ISCJB V 22 07 46 24.9–.28 36.09N–.02 78.29E–.06 88 3.5b,3.8
BJI V 22 07 46 30.6 36.33N 78.36E 117 4.3b,4.0b
NNC V 22 07 46 33.8–2.5 36.53N 77.89E 119–15 4.4,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=14.0km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.0km az=173.8.
NNC Event type se. Error ellipse: s-maj=20.0km s-min=14.6km az=162.0.
ISC VI 12 20 49 40.1–.96 36.48N–.07 77.0E–.10 77 10 4-18
ISCJB VI 12 20 49 37.9–.73 36.48N–.05 77.0E–.10 77 **¶17218469**
NNC VI 12 20 49 46.7–3.5 36.67N 75.61E 0 3.7b,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=6.7km az=167.7.
NNC Event type se. Error ellipse: s-maj=97.2km s-min=27.3km az=67.0.

(325) Qinghai.

ISC I 08 11 53 45.5–.61 33.79N–.07 92.19E–.06 10 3.9b,3.7s 25 4-83
BJI I 08 11 53 41.0 33.89N 91.95E 19 4.6b,4.2s **¶16395230**
ISCJB I 08 11 53 44.8–.35 33.99N–.04 92.28E–.04 10 3.8b,3.5s
IDC I 08 11 53 44.5–.81 33.83N 92.17E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=147.3.
IDC Error ellipse: s-maj=34.1km s-min=16.0km az=55.0.
IDC I 08 12 37 48.7–1.9 33.86N 92.14E 0 3.4,3.4b
¶17189696
IDC Error ellipse: s-maj=50.1km s-min=31.2km az=82.0.
IDC II 01 07 51 00.1–3.8 37.23N 95.87E 0 3.6b,3.5
¶16001829
IDC Error ellipse: s-maj=86.2km s-min=25.0km az=22.0.
ISC II 01 18 48 11.4–.66 33.54N–.08 90.3E–.10 35 3.7b 26 7-82
IDC II 01 18 48 05.8–.86 33.33N 90.15E 0 3.8,3.7b **¶17191501**
ISCJB II 01 18 48 09.4–.47 33.53N–.05 90.34E–.09 33 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
IDC II 03 21 32 53.7–6.3 34.95N 99.44E 0 3.8,3.8b
¶17191621
IDC Error ellipse: s-maj=101.2km s-min=70.1km az=152.0.
ISC II 03 22 05 35.6–1.7 35.6N–.20 99.4E–.10 10 3.9b 9 4-52
IDC II 03 22 05 36.2–7.8 35.75N 99.27E 0 3.8b,3.7 **¶16397539**
BJI II 03 22 05 39.4 35.98N 99.21E 10 3.7,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=123.4km s-min=63.9km az=153.0.
IDC II 03 22 26 32.5–6.8 35.97N 98.99E 0 3.7b,3.6
¶17191623
IDC Error ellipse: s-maj=113.3km s-min=51.6km az=136.0.
IDC II 03 22 49 16.5–8.5 35.68N 99.13E 0 3.7b,3.6
¶17191624
IDC Error ellipse: s-maj=135.8km s-min=70.1km az=152.0.
IDC II 04 00 19 45.0–8.6 35.00N 99.38E 0 3.6,3.6s
¶17191627
IDC Error ellipse: s-maj=132.1km s-min=51.7km az=136.0.
ISC II 04 02 39 15.5–.26 38.91N–.04 91.62E–.03 10 4.7b,4.2s 314 6-151
IDC II 04 02 39 12.4–.53 38.62N 91.70E 0 4.5,4.4 **¶16002988**
ISCJB II 04 02 39 13.6–.15 38.86N–.02 91.60E–.02 10 4.6b,4.1s
BJI II 04 02 39 14.8 38.72N 91.74E 10 5.1L,4.8b
NEIC II 04 02 39 15.6–.24 38.90N 91.63E 10 4.8b,4.8b
MOS II 04 02 39 17.0–.93 38.96N 91.53E 28 5.0b,4.2s
NNC II 04 02 39 21.9–1.8 39.07N 91.35E 32–13 5.2b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=11.6km az=9.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.4km az=27.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.4km az=34.0.
MOS Error ellipse: s-maj=8.1km s-min=4.3km az=127.4.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=8.9km az=34.0.
ISC II 18 10 27 57.6–.82 34.85N–.08 90.96E–.09 10 3.8b,3.5s 16 5-72
BJI II 18 10 27 50.2 34.76N 90.66E 10 3.8b,3.6s **¶16398471**
IDC II 18 10 27 54.3–.91 34.61N 90.64E 0 3.8,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=33.6km s-min=17.2km az=53.0.
ISC II 23 13 45 24.3–.88 38.6N–.10 91.1E–.10 10 3.8b 21 6-77
ISCJB II 23 13 45 22.4–.59 38.63N–.07 90.95E–.09 10 3.6b **¶16154491**
IDC II 23 13 45 22.8–.82 38.57N 91.15E 0 3.8,3.6
BJI II 23 13 45 24.0 38.71N 91.13E 8 3.8L,3.4s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.2km az=43.1.
IDC Error ellipse: s-maj=32.9km s-min=14.8km az=53.0.
ISC II 23 21 11 28.1–.72 35.4N–.10 99.37E–.06 10 3.9b 20 4-79
ISCJB II 23 21 11 26.0–.53 35.53N–.08 99.44E–.07 10 3.7b,3.0s **¶16159788**
IDC II 23 21 11 26.7–.78 35.47N 99.38E 0 3.9,3.7
BJI II 23 21 11 27.3 35.52N 99.47E 6 4.2b,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.0km az=28.0.
IDC Error ellipse: s-maj=23.0km s-min=15.8km az=48.0.
ISC II 24 00 21 13.5–.66 35.32N–.06 99.59E–.04 10 3.7b,3.3s 49 4-79
ISCJB II 24 00 21 11.9–.51 35.35N–.05 99.44E–.06 10 3.9b,3.4s **¶16159907**
NEIC II 24 00 21 13.0–.83 35.35N 99.68E 10 4.0b,3.4s
IDC II 24 00 21 12.1–1.1 35.31N 99.37E 0 4.1L,3.8
BJI II 24 00 21 15.8 35.52N 99.48E 6 4.2b,4.1L
MOS II 24 00 21 16.4–2.1 35.51N 99.34E 33 4.2b,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.3km az=31.1.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=12.2km az=197.0.
IDC Error ellipse: s-maj=33.3km s-min=19.0km az=50.0.
MOS Error ellipse: s-maj=12.8km s-min=8.4km az=111.0.
ISC II 24 01 22 41.9–.79 35.47N–.07 99.56E–.06 10 3.8b 19 4-67
IDC II 24 01 22 40.4–.86 35.53N 99.29E 0 3.9,3.9L **¶16159896**
BJI II 24 01 22 42.7 35.52N 99.49E 10 3.7,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=16.2km az=52.0.
ISC III 01 07 52 43.2–1.1 37.2N–.10 93.23E–.10 10 10 6-83
ISCJB III 01 07 52 40.9–.95 37.3N–.10 93.4E–.10 10 3.5b **¶17193050**
IDC III 01 07 52 42.0–1.3 36.76N 92.85E 0 3.6,3.6
BJI III 01 07 52 44.3 37.05N 93.17E 10 3.6L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=8.8km az=40.7.
IDC Error ellipse: s-maj=52.6km s-min=25.1km az=52.0.
IDC III 02 14 54 52.0–1.6 33.36N 96.21E 0 3.4L,3.1
¶17193143
IDC Error ellipse: s-maj=76.6km s-min=23.6km az=62.0.
ISC III 03 07 54 28.3–.53 33.81N–.04 100.99E–.05 10 3.9b,3.4s 50 3-99
ISCJB III 03 07 54 25.9–.36 33.80N–.04 100.95E–.05 10 3.8b,3.5s **¶16442176**
IDC III 03 07 54 27.6–.85 34.09N 101.03E 0 4.0,3.8
NEIC III 03 07 54 28.6–.46 33.98N 101.08E 10 4.2b,4.1L
BJI III 03 07 54 29.6 33.86N 101.10E 10 4.2b,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=5.6km az=162.2.
IDC Error ellipse: s-maj=26.9km s-min=15.7km az=43.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=8.4km az=57.0.
IDC IV 05 16 08 10.9–2.0 33.15N 96.08E 0 3.6,3.6b
¶16444110
IDC Error ellipse: s-maj=85.6km s-min=33.0km az=69.0.
ISC IV 10 06 56 38.1–.90 35.2N–.10 91.09E–.08 10 3.8b,3.4s 19 8-82
ISCJB IV 10 06 56 36.1–.69 35.17N–.08 91.13E–.07 10 3.7b,3.5s **¶16444278**
IDC IV 10 06 56 36.3–.80 35.17N 91.18E 0 3.8,3.7
BJI IV 10 06 56 37.8 35.26N 91.26E 10 3.9b,3.8s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.9km az=179.8.
IDC Error ellipse: s-maj=29.6km s-min=16.5km az=49.0.
ISC IV 11 17 12 53.3–.65 37.60N–.08 95.74E–.05 10 4.0b 29 4-85
ISCJB IV 11 17 12 51.7–.50 37.65N–.06 95.72E–.07 10 4.3s,3.8b **¶16505338**
IDC IV 11 17 12 51.9–.65 37.64N 95.75E 0 4.0,3.9b
BJI IV 11 17 12 53.5 37.69N 95.74E 10 4.4b,4.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.0km az=22.9.
IDC Error ellipse: s-maj=21.6km s-min=13.5km az=51.0.
IDC IV 30 17 51 32.7–1.8 37.46N 94.97E 0 3.9,3.9s
¶17202469
IDC Error ellipse: s-maj=89.9km s-min=26.5km az=59.0.
ISC V 02 05 48 41.2–.33 33.64N–.03 98.88E–.03 10 4.4b,3.9s 179 5-150
ISCJB V 02 05 48 38.8–.22 33.62N–.03 98.91E–.03 10 4.2b,4.0s **¶16486847**
IDC V 02 05 48 38.9–.72 33.63N 98.97E 0 4.2,4.0L
BJI V 02 05 48 40.0 33.74N 98.94E 10 4.8b,4.6b
MOS V 02 05 48 43.0–1.2 33.75N 98.98E 33 4.5b,4.6b
NEIC V 02 05 48 43.5–1.6 33.77N 98.94E 24–13 4.5b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.2km az=5.1.
IDC Error ellipse: s-maj=20.3km s-min=13.0km az=33.0.
MOS Error ellipse: s-maj=8.0km s-min=6.0km az=98.1.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.3km az=213.0.
ISC V 04 19 27 53.2–.59 34.30N–.06 100.65E–.05 10 3.8b 32 3-90
ISCJB V 04 19 27 52.1–.47 34.45N–.06 100.66E–.05 10 3.7b **¶17202788**
IDC V 04 19 27 52.0–.69 34.35N 100.59E 0 3.9,3.8
BJI V 04 19 27 54.8 34.34N 100.50E 10 3.7,3.7s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.3km az=164.7.
IDC Error ellipse: s-maj=22.8km s-min=14.4km az=42.0.
ISC V 09 08 31 32.6–1.3 33.70N–.09 99.05E–.07 10 3.7b,3.2s 12 5-69
IDC V 09 08 31 33.0–1.6 33.77N 99.27E 0 3.6,3.5b **¶17203112**
BJI V 09 08 31 34.9 33.78N 98.93E 6 3.9s,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=72.8km s-min=24.7km az=56.0.
ISC V 16 12 17 20.4–.76 39.0N–.10 96.9E–.10 35 3.7b,2.9s 15 11-82
IDC V 16 12 17 15.7–.76 38.87N 97.09E 0 3.9,3.8 **¶17203749**
ISCJB V 16 12 17 18.2–.61 38.8N–.10 96.7E–.20 33 3.7b,2.9s
ISC Event type ke.
ISCJB Event type ke.
ISC V 22 13 50 32.7–2.2 38.0N–.20 95.6E–.10 35 8 13-58
IDC V 22 13 50 28.3–3.2 37.84N 95.74E 0 3.7,3.7b **¶16637092**
ISCJB V 22 13 50 32.1–1.8 38.1N–.20 95.7E–.10 33 3.6b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 09 21 13 21.3–.91 34.06N–.08 100.78E–.07 10 3.7b 19 3-65
IDC VI 09 21 13 20.1–.89 34.26N 100.77E 0 3.7,3.6 **¶16637905**
BJI VI 09 21 13 23.8 34.33N 100.81E 10 3.7L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=17.1km az=49.0.
ISC VI 10 01 20 10.6–.42 34.14N–.04 100.83E–.05 10 4.1b,3.7s 81 3-151
ISCJB VI 10 01 20 08.9–.29 34.27N–.03 100.91E–.04 10 4.1b,3.7s **¶16638012**
NEIC VI 10 01 20 10.8–.30 34.32N 100.83E 10 4.2b,3.7s
BJI VI 10 01 20 12.0 34.34N 100.80E 10 4.5L,4.4b
MOS VI 10 01 20 12.4–.74 34.32N 100.85E 33 4.5b,4.4b
IDC VI 10 01 20 14.2–5.0 34.32N 100.79E 33–38 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=38.9.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.9km az=211.0.
MOS Error ellipse: s-maj=12.0km s-min=7.4km az=99.7.
IDC Error ellipse: s-maj=16.0km s-min=11.8km az=19.0.
ISC VI 28 08 54 23.2–1.1 32.2N–.10 96.02E–.08 10 3.7b 12 7-87
ISCJB VI 28 08 54 21.1–.85 32.2N–.10 96.03E–.09 10 3.7b **¶16685751**
IDC VI 28 08 54 21.6–1.1 32.27N 96.08E 0 3.7,3.7b
BJI VI 28 08 54 23.5 32.41N 95.90E 10 3.3L,3.3s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=8.9km az=26.6.
IDC Error ellipse: s-maj=54.6km s-min=21.1km az=57.0.

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ISC I 01 22 16 32.4–.40 53.65N–.03 82.08E–.03 10 4.0b 116 1-89
NEIC I 01 22 16 31.8–3.0 53.64N 81.96E 3–20 4.1b **¶15902697**
ISCJB I 01 22 16 31.1–.24 53.66N–.03 81.94E–.03 10 3.9b
IDC I 01 22 16 31.8–.54 53.68N 82.08E 0 4.0,3.8
MOS I 01 22 16 32.3–1.3 53.63N 81.90E 17 4.1b,3.8
ASRS I 01 22 16 34.0–.69 53.69N 82.03E 15 3.4s,3.8
BJI I 01 22 16 36.1 53.44N 82.38E 22 4.5b,4.3L
NNC I 01 22 16 40.4–2.0 53.40N 81.52E 158–22 4.3,3.5b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.5km az=184.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=174.3.
IDC Error ellipse: s-maj=8.1km s-min=7.5km az=144.0.
MOS Error ellipse: s-maj=8.8km s-min=7.9km az=83.2.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=7.9km az=47.0.
IDC I 03 07 19 45.4–2.4 54.15N 86.31E 0 3.1,3.1
¶17189303
IDC Error ellipse: s-maj=19.3km s-min=12.6km az=53.0.
IDC I 04 07 28 55.3–2.5 54.33N 86.07E 0 3.3,3.3
¶17189399
IDC Error ellipse: s-maj=20.1km s-min=11.2km az=53.0.
IDC I 04 09 10 33.1–2.8 53.58N 87.06E 0 2.7,2.7
¶17189407
IDC Error ellipse: s-maj=28.4km s-min=15.9km az=67.0.
IDC I 04 09 41 22.4–3.2 54.21N 87.19E 0 2.7,2.7
¶17189409
IDC Error ellipse: s-maj=31.6km s-min=19.2km az=48.0.
IDC I 04 09 46 08.5–3.2 54.15N 86.94E 0 2.6,2.6
¶17189410
IDC Error ellipse: s-maj=29.8km s-min=17.1km az=56.0.

IDC I 04 10 33 10.4–2.8 53.51N 87.64E 0 3.2,3.2 ¶16394884

IDC Error ellipse: s-maj=25.2km s-min=13.9km az=62.0.
ISC I 04 16 02 22.3–.63 50.23N–.03 87.52E–.04 10 3.5b 55 0-84
OBM I 04 16 02 20.6–.22 50.37N 87.54E 2 4.0L ¶16394910
ASRS I 04 16 02 21.4–.86 50.21N 87.57E 8 3.0s
IDC I 04 16 02 22.4–1.1 50.36N 87.69E 0 3.7,3.6
ISCJB I 04 16 02 22.0–.47 50.29N–.03 87.36E–.05 10 3.4b,3.0s
MOS I 04 16 02 23.6–1.1 50.25N 87.20E 9 4.3b,3.0s
BJI I 04 16 02 23.3 50.34N 87.38E 16 4.0b,3.9L
NNC I 04 16 02 26.5–3.3 50.26N 87.14E 0 4.1,4.1b
ISC Event type se.
OBM Error ellipse: s-maj=4.3km s-min=2.9km az=2.0.
IDC Error ellipse: s-maj=16.5km s-min=15.1km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=4.4km az=33.6.
MOS Error ellipse: s-maj=10.2km s-min=7.8km az=94.0.
NNC Event type se. Error ellipse: s-maj=27.3km s-min=16.5km az=63.0.
IDC I 05 06 24 31.4–2.3 54.13N 86.37E 0 3.3,3.3 ¶17189485

IDC Error ellipse: s-maj=18.6km s-min=11.9km az=61.0.
IDC I 05 06 47 47.1–2.7 53.72N 86.93E 0 2.7,2.7 ¶17189487

IDC Error ellipse: s-maj=24.9km s-min=15.6km az=69.0.
IDC I 06 06 08 55.4–2.9 54.08N 86.52E 0 2.8,2.8 ¶17189571

IDC Error ellipse: s-maj=26.2km s-min=14.9km az=43.0.
IDC I 06 09 19 54.2–3.2 54.61N 86.63E 0 3.1,3.1 ¶17189581

IDC Error ellipse: s-maj=24.9km s-min=15.9km az=52.0.
IDC I 06 10 25 34.7–2.9 54.48N 86.26E 0 2.8,2.8 ¶16395086

IDC Error ellipse: s-maj=22.0km s-min=12.7km az=52.0.
IDC I 08 06 26 58.6–2.6 53.69N 86.86E 0 2.6,2.6 ¶17189674

IDC Error ellipse: s-maj=24.0km s-min=12.3km az=75.0.
IDC I 08 06 54 57.0–2.8 54.47N 86.44E 0 3.1,3.1 ¶17189675

IDC Error ellipse: s-maj=23.6km s-min=13.1km az=59.0.
IDC I 08 07 31 57.0–2.5 54.31N 85.99E 0 2.6,2.6 ¶17189678

IDC Error ellipse: s-maj=18.5km s-min=12.1km az=50.0.
IDC I 08 08 19 08.2–2.6 54.16N 87.10E 0 3.0,3.0 ¶17189683

IDC Error ellipse: s-maj=23.2km s-min=13.7km az=65.0.
IDC I 08 08 56 37.0–2.9 54.20N 87.17E 0 2.9,2.9 ¶16395216

IDC Error ellipse: s-maj=25.0km s-min=15.9km az=66.0.
IDC I 08 09 25 36.7–2.4 54.26N 86.22E 0 3.2,3.2 ¶17189686

IDC Error ellipse: s-maj=19.2km s-min=11.4km az=55.0.
IDC I 08 09 59 38.1–2.6 54.17N 86.18E 0 2.5,2.5 ¶17189690

IDC Error ellipse: s-maj=19.5km s-min=11.3km az=61.0.
IDC I 09 07 35 49.2–2.7 53.41N 87.37E 0 3.0,3.0 ¶16395292

IDC Error ellipse: s-maj=25.3km s-min=14.3km az=63.0.
IDC I 09 09 01 46.1–3.0 54.54N 86.25E 0 2.8,2.8 ¶16395296

IDC Error ellipse: s-maj=21.9km s-min=13.2km az=49.0.
IDC I 09 09 08 31.5–2.7 54.13N 87.27E 0 3.1,3.1 ¶16395297

IDC Error ellipse: s-maj=24.3km s-min=15.3km az=65.0.
IDC I 10 07 17 46.8–3.0 54.21N 87.33E 0 2.9,2.9 ¶16395409

IDC Error ellipse: s-maj=26.3km s-min=17.8km az=51.0.
IDC I 10 07 28 06.6–2.5 53.76N 87.08E 0 2.8,2.8 ¶17189827

IDC Error ellipse: s-maj=23.6km s-min=15.0km az=65.0.
IDC I 10 07 29 20.8–2.6 54.35N 86.10E 0 2.8,2.8 ¶17189828

IDC Error ellipse: s-maj=20.3km s-min=12.2km az=50.0.
IDC I 10 07 35 43.3–3.0 54.09N 86.79E 0 2.8,2.8 ¶17189829

IDC Error ellipse: s-maj=26.1km s-min=15.0km az=59.0.
IDC I 10 10 11 07.7–2.4 54.12N 86.44E 0 3.6,3.6 ¶17189841

IDC Error ellipse: s-maj=19.6km s-min=12.1km az=59.0.
IDC I 11 06 07 08.6–3.3 53.48N 87.43E 0 2.4,2.4 ¶17189902

IDC Error ellipse: s-maj=38.4km s-min=19.7km az=82.0.
IDC I 11 08 23 50.7–3.6 54.20N 87.33E 0 2.6,2.6 ¶17189906

IDC Error ellipse: s-maj=32.0km s-min=20.1km az=52.0.
IDC I 11 09 06 07.0–3.0 53.72N 88.06E 0 3.3,3.3 ¶17189908

IDC Error ellipse: s-maj=23.9km s-min=15.7km az=56.0.
IDC I 11 09 26 03.9–2.6 54.16N 86.34E 0 3.0,3.0 ¶17189910

IDC Error ellipse: s-maj=20.8km s-min=12.8km az=57.0.
NNC I 11 09 45 40.4–4.2 54.38N 86.52E 0 3.7b,3.3
IDC I 11 09 45 40.1–2.9 54.48N 86.26E 0 3.0,3.0 ¶16395512
NNC Event type se. Error ellipse: s-maj=33.1km s-min=31.0km az=143.0.
IDC Error ellipse: s-maj=21.7km s-min=13.3km az=51.0.
IDC I 11 09 56 10.4–2.8 53.57N 87.72E 0 3.2,3.2
NNC I 11 09 56 15.4–3.1 53.41N 87.34E 0 3.7b,3.3 ¶16395513
IDC Error ellipse: s-maj=23.0km s-min=14.4km az=63.0.
NNC Event type se. Error ellipse: s-maj=22.1km s-min=18.6km az=48.0.
IDC I 11 11 46 19.9–2.4 53.48N 87.74E 0 3.2,3.2
NNC I 11 11 46 24.1–2.4 53.36N 87.48E 0 3.5b,3.2 ¶16395517
IDC Error ellipse: s-maj=21.4km s-min=13.1km az=67.0.
NNC Event type se. Error ellipse: s-maj=17.5km s-min=12.9km az=29.0.
IDC I 12 07 20 25.6–2.9 54.53N 86.58E 0 3.0,3.0 ¶17189975

IDC Error ellipse: s-maj=24.0km s-min=14.4km az=51.0.
IDC I 12 07 28 37.9–3.1 53.57N 87.82E 0 2.7,2.7 ¶17189976

IDC Error ellipse: s-maj=26.1km s-min=15.5km az=60.0.
IDC I 12 10 31 46.1–7.9 56.17N 86.43E 0 3.0,3.0 ¶17189987

IDC Error ellipse: s-maj=81.1km s-min=34.5km az=26.0.
IDC I 13 06 22 07.8–2.3 54.26N 86.07E 0 3.1,3.1 ¶17190035

IDC Error ellipse: s-maj=17.8km s-min=11.0km az=53.0.
IDC I 13 09 38 36.9–2.3 54.25N 85.88E 0 3.1,3.1 ¶17190045

IDC Error ellipse: s-maj=17.6km s-min=9.5km az=55.0.
IDC I 13 10 11 51.9–2.4 53.48N 87.69E 0 3.4,3.4 ¶17190048

IDC Error ellipse: s-maj=21.8km s-min=13.6km az=67.0.
IDC I 14 06 33 26.7–3.0 54.39N 86.91E 0 3.1,3.1 ¶16395787

IDC Error ellipse: s-maj=26.7km s-min=16.9km az=59.0.
IDC I 14 09 32 07.5–3.0 53.56N 87.86E 0 2.8,2.8 ¶17190150

IDC Error ellipse: s-maj=27.5km s-min=16.5km az=57.0.
IDC I 14 11 14 12.3–2.9 54.12N 87.22E 0 2.9,2.9 ¶17190158

IDC Error ellipse: s-maj=25.5km s-min=16.6km az=63.0.
NNC I 15 06 50 18.7–2.0 54.28N 86.49E 0 3.8b,3.5 ¶16442045

NNC Event type se. Error ellipse: s-maj=15.2km s-min=9.1km az=72.0.

IDC I 15 06 57 07.7–2.4 54.13N 86.36E 0 3.0,3.0 ¶17190229

IDC Error ellipse: s-maj=19.0km s-min=11.9km az=60.0.
IDC I 15 07 48 59.5–2.4 54.27N 85.90E 0 2.9,2.9 ¶17190231

IDC Error ellipse: s-maj=18.4km s-min=10.2km az=54.0.
NNC I 15 08 38 54.6–3.1 54.36N 86.28E 0 3.7b,3.3 ¶16442052

NNC Event type se. Error ellipse: s-maj=22.9km s-min=20.5km az=48.0.
IDC I 15 08 51 43.8–3.5 54.30N 87.51E 0 2.6,2.6 ¶17190232

IDC Error ellipse: s-maj=31.6km s-min=19.7km az=43.0.
IDC I 15 09 05 32.4–3.4 53.71N 88.14E 0 2.9,2.9 ¶17190234

IDC Error ellipse: s-maj=31.9km s-min=18.6km az=46.0.
IDC I 15 09 23 41.9–3.4 54.11N 87.30E 0 2.9,2.9 ¶17190235

IDC Error ellipse: s-maj=32.4km s-min=19.4km az=46.0.
NNC I 15 09 33 43.5–2.0 54.09N 86.35E 0 3.6b,3.1 ¶16442054

NNC Event type se. Error ellipse: s-maj=17.5km s-min=8.6km az=56.0.
ISC I 15 10 53 31.5–3.9 54.1N–.20 87.3E–.20 10 14 1-11
IDC I 15 10 53 27.5–3.4 54.07N 87.59E 0 3.3L,3.1 ¶16395921
NNC I 15 10 53 32.0–1.4 54.02N 87.07E 0 3.6b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=29.6km s-min=17.0km az=45.0.
NNC Event type se. Error ellipse: s-maj=10.4km s-min=7.7km az=60.0.
IDC I 16 07 23 44.7–2.3 54.14N 86.29E 0 3.1,3.1 ¶17190302

IDC Error ellipse: s-maj=19.3km s-min=11.8km az=63.0.
IDC I 16 10 13 49.6–2.1 54.25N 86.26E 0 3.4,3.4 ¶16396000

IDC Error ellipse: s-maj=17.3km s-min=11.0km az=59.0.
IDC I 17 06 11 17.1–2.6 54.08N 86.55E 0 3.2,3.2 ¶16396083

IDC Error ellipse: s-maj=21.6km s-min=13.0km az=54.0.
IDC I 17 06 32 09.0–2.4 54.14N 86.42E 0 3.0,3.0 ¶16396085

IDC Error ellipse: s-maj=18.8km s-min=12.8km az=53.0.
IDC I 17 09 28 40.8–3.0 54.59N 86.63E 0 2.9,2.9 ¶17190394

IDC Error ellipse: s-maj=23.9km s-min=16.5km az=54.0.
IDC I 17 09 35 32.9–2.5 53.54N 87.72E 0 3.8,3.8 ¶17190395

IDC Error ellipse: s-maj=21.9km s-min=12.7km az=58.0.
IDC I 17 09 54 52.7–2.4 53.73N 86.93E 0 3.0,3.0 ¶17190396

IDC Error ellipse: s-maj=20.8km s-min=13.2km az=70.0.
IDC I 17 09 58 21.8–2.7 54.08N 87.17E 0 3.0,3.0 ¶17190397

IDC Error ellipse: s-maj=25.0km s-min=18.6km az=57.0.
IDC I 17 11 26 30.0–2.8 54.08N 87.14E 0 3.2,3.2 ¶17190399

IDC Error ellipse: s-maj=28.8km s-min=16.0km az=59.0.
IDC I 18 06 09 25.4–2.8 54.04N 86.47E 0 2.8,2.8 ¶17190456

IDC Error ellipse: s-maj=22.4km s-min=13.8km az=60.0.
IDC I 18 06 10 59.6–3.0 53.45N 87.46E 0 2.8,2.8 ¶17190457

IDC Error ellipse: s-maj=26.7km s-min=15.6km az=64.0.
IDC I 18 06 13 54.4–3.5 53.59N 90.69E 0 3.2,3.2 ¶16396176

IDC Error ellipse: s-maj=33.0km s-min=23.8km az=33.0.
IDC I 18 07 22 28.7–3.3 54.46N 87.01E 0 2.9,2.9 ¶17190464

IDC Error ellipse: s-maj=31.4km s-min=19.3km az=50.0.
IDC I 18 09 15 15.1–3.3 54.28N 87.41E 0 2.9,2.9 ¶17190473

IDC Error ellipse: s-maj=27.9km s-min=19.6km az=43.0.
IDC I 18 09 24 03.5–2.6 53.72N 86.83E 0 2.8,2.8 ¶17190475

IDC Error ellipse: s-maj=24.1km s-min=14.9km az=65.0.
IDC I 19 07 50 53.7–2.8 53.46N 87.60E 0 3.0,3.0 ¶16396273

IDC Error ellipse: s-maj=25.7km s-min=14.7km az=68.0.
IDC I 19 09 17 15.9–3.2 54.20N 87.06E 0 2.9,2.9 ¶17190544

IDC Error ellipse: s-maj=30.3km s-min=18.1km az=57.0.
IDC I 19 09 30 16.5–3.1 53.63N 87.78E 0 3.1,3.1 ¶17190545

IDC Error ellipse: s-maj=28.7km s-min=16.9km az=52.0.
IDC I 19 09 34 17.6–2.3 54.20N 86.09E 0 3.3,3.3 ¶17190546

IDC Error ellipse: s-maj=17.7km s-min=10.7km az=57.0.
IDC I 19 09 50 49.4–3.1 53.60N 87.86E 0 2.8,2.8 ¶17190547

IDC Error ellipse: s-maj=26.0km s-min=17.6km az=49.0.
IDC I 19 10 08 16.2–2.8 53.59N 87.76E 0 3.4,3.4 ¶16396287

IDC Error ellipse: s-maj=24.9km s-min=14.3km az=62.0.
IDC I 19 10 15 34.5–2.8 53.54N 87.74E 0 3.1,3.1 ¶16396288

IDC Error ellipse: s-maj=23.6km s-min=15.0km az=61.0.
ISC I 20 07 20 34.8–4.1 54.7N–.20 86.4E–.20 35 15 1-10
IDC I 20 07 20 32.7–2.6 54.60N 86.37E 0 3.0,3.0 ¶16396365
NNC I 20 07 20 39.1–2.0 54.23N 86.07E 0 3.7b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=12.1km az=53.0.
NNC Event type se. Error ellipse: s-maj=15.0km s-min=12.9km az=8.0.
IDC I 20 09 10 31.3–2.8 55.41N 86.20E 0 3.1,3.1 ¶17190610

IDC Error ellipse: s-maj=25.4km s-min=16.4km az=68.0.
ISC I 20 09 18 56.1–4.0 53.8N–.10 87.8E–.20 10 14 2-13
IDC I 20 09 18 53.6–2.6 53.72N 88.05E 0 3.3,3.3 ¶16396371
NNC I 20 09 18 56.4–2.6 53.77N 87.57E 2–15 3.7b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=13.8km az=59.0.
NNC Event type se. Error ellipse: s-maj=19.6km s-min=10.9km az=60.0.
IDC I 20 10 00 49.0–3.6 54.37N 86.74E 0 2.7,2.7 ¶17190613

IDC Error ellipse: s-maj=31.4km s-min=19.9km az=44.0.
IDC I 21 06 27 49.1–2.3 54.44N 86.35E 0 3.3,3.3 ¶16396442

IDC Error ellipse: s-maj=19.1km s-min=11.7km az=61.0.
IDC I 21 09 56 22.4–3.0 54.20N 87.31E 0 3.3,3.3 ¶16396454

IDC Error ellipse: s-maj=25.7km s-min=16.6km az=59.0.
NNC I 21 11 23 24.3–6.8 54.17N 86.45E 0 3.6b,3.1 ¶16451898

NNC Event type se. Error ellipse: s-maj=52.6km s-min=36.3km az=56.0.
ISC I 22 08 25 24.7–7.4 53.9N–.30 85.9E–.50 10 7 1-9
IDC I 22 08 25 18.7–2.1 54.06N 86.35E 0 3.4,3.4 ¶16396531
NNC I 22 08 25 21.5–3.9 53.82N 86.35E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=10.5km az=64.0.
NNC Event type se. Error ellipse: s-maj=44.1km s-min=34.3km az=162.0.
IDC I 22 08 58 24.2–3.0 53.67N 88.21E 0 3.2,3.2 ¶17190727

IDC Error ellipse: s-maj=28.2km s-min=15.8km az=75.0.
IDC I 22 09 13 28.2–3.4 54.24N 87.51E 0 2.8,2.8 ¶17190729

IDC Error ellipse: s-maj=26.4km s-min=17.2km az=57.0.
IDC I 23 10 12 51.8–2.4 54.27N 86.16E 0 3.1,3.1
¶17190790

IDC Error ellipse: s-maj=18.8km s-min=11.8km az=53.0.
IDC I 24 04 04 22.8–2.8 54.46N 87.08E 0 3.1,3.1
¶16396674

IDC Error ellipse: s-maj=22.6km s-min=16.3km az=57.0.
IDC I 24 06 04 09.1–2.5 54.05N 86.52E 0 3.1,3.1
¶17190865

IDC Error ellipse: s-maj=21.2km s-min=13.4km az=53.0.
IDC I 24 06 34 18.5–2.5 54.29N 86.19E 0 3.3,3.3
¶17190867

IDC Error ellipse: s-maj=20.6km s-min=12.4km az=51.0.
IDC I 24 07 19 53.3–2.6 53.75N 86.84E 0 2.8,2.8
¶17190870

IDC Error ellipse: s-maj=24.5km s-min=12.8km az=70.0.
IDC I 24 07 42 02.8–2.5 54.31N 85.97E 0 2.8,2.8
¶17190871

IDC Error ellipse: s-maj=18.9km s-min=11.0km az=52.0.
IDC I 25 08 19 59.5–2.7 54.21N 86.48E 0 2.9,2.9
¶17190952

IDC Error ellipse: s-maj=21.4km s-min=12.9km az=60.0.
IDC I 25 09 40 19.4–2.4 54.28N 86.12E 0 3.3,3.3
¶17190954

IDC Error ellipse: s-maj=19.3km s-min=11.3km az=55.0.
IDC I 26 06 30 55.4–2.4 54.17N 86.43E 0 3.1,3.1
NNC I 26 06 30 54.4–8.8 53.97N 86.88E 0 3.6b,3.2 **¶16396850**
IDC Error ellipse: s-maj=19.4km s-min=12.0km az=58.0.
NNC Event type se. Error ellipse: s-maj=80.6km s-min=62.0km az=79.0.
IDC I 26 08 41 17.7–3.4 55.71N 86.06E 0 3.1,3.1
¶17191023

IDC Error ellipse: s-maj=30.4km s-min=25.6km az=43.0.
NNC I 26 10 22 10.9–1.9 53.44N 87.38E 0 4.0b,3.8
¶16461065

NNC Event type se. Error ellipse: s-maj=15.2km s-min=12.9km az=86.0.
IDC I 27 07 18 33.8–2.7 54.18N 86.32E 0 3.1,3.1
¶17191085

IDC Error ellipse: s-maj=20.6km s-min=11.7km az=64.0.
IDC I 27 07 54 56.3–3.3 54.60N 86.35E 0 2.7,2.7
¶17191088

IDC Error ellipse: s-maj=24.7km s-min=14.3km az=51.0.
NNC I 27 08 34 37.0–1.6 53.85N 88.11E 3–9 3.8b,3.5
¶16464729

NNC Event type se. Error ellipse: s-maj=11.6km s-min=8.0km az=64.0.
IDC I 28 09 13 44.7–2.5 54.14N 86.46E 0 3.4,3.4
¶16397071

IDC Error ellipse: s-maj=19.6km s-min=12.8km az=56.0.
ISC I 31 09 13 32.5–4.2 53.2N–.10 91.1E–.20 35 16 4-13
IDC I 31 09 13 28.4–3.2 53.38N 91.08E 0 3.4,3.4 **¶16397299**
NNC I 31 09 13 30.6–1.8 52.98N 91.09E 16–9 4.0b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=22.8km az=60.0.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=11.6km az=6.0.
ISC I 31 11 06 59.4–4.3 53.6N–.10 91.2E–.20 35 18 4-15
IDC I 31 11 06 58.0–3.1 53.69N 90.60E 0 3.4,3.4 **¶16397306**
NNC I 31 11 07 00.7–1.0 53.35N 90.71E 0 4.0b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=25.9km s-min=21.8km az=55.0.
NNC Event type se. Error ellipse: s-maj=7.4km s-min=5.8km az=60.0.
IDC II 02 07 23 21.9–2.2 53.78N 86.35E 0 2.6,2.6
¶17191528

IDC Error ellipse: s-maj=18.2km s-min=10.5km az=69.0.
IDC II 02 09 02 45.6–1.6 54.71N 83.77E 0 3.0,3.0
¶17191533

IDC Error ellipse: s-maj=15.3km s-min=8.7km az=16.0.
NNC II 04 07 50 32.6–2.2 54.11N 86.55E 0 3.8b,3.4
¶16498943

NNC Event type se. Error ellipse: s-maj=16.4km s-min=10.0km az=51.0.
IDC II 04 08 49 05.9–3.2 55.42N 86.27E 0 2.9,2.9
¶17191643

IDC Error ellipse: s-maj=28.0km s-min=18.5km az=63.0.
ISC II 04 10 10 40.6–3.8 53.7N–.10 88.0E–.20 10 14 2-11
IDC II 04 10 10 38.7–2.7 53.64N 88.12E 0 3.2,3.2 **¶16397562**
NNC II 04 10 10 43.9–4.0 53.38N 87.84E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=15.7km az=50.0.
NNC Event type se. Error ellipse: s-maj=29.2km s-min=22.8km az=52.0.
ISC II 06 10 22 42.2–4.0 54.2N–.20 87.1E–.20 10 12 1-14
IDC II 06 10 22 41.4–2.4 54.10N 87.14E 0 3.3,3.3 **¶16397714**
NNC II 06 10 22 45.0–4.1 54.00N 86.71E 0 3.7b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=13.6km az=64.0.
NNC Event type se. Error ellipse: s-maj=34.5km s-min=27.7km az=4.0.
ISC II 07 08 49 29.6–5.5 54.2N–.20 86.1E–.30 10 6 1-8
IDC II 07 08 49 28.1–2.5 54.18N 86.35E 0 3.2,3.2 **¶16397781**
NNC II 07 08 49 30.0–1.6 53.98N 86.68E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=12.4km az=54.0.
NNC Event type se. Error ellipse: s-maj=12.3km s-min=11.8km az=3.0.
IDC II 09 09 14 55.6–2.9 54.40N 86.93E 0 3.1,3.1
¶17191937

IDC Error ellipse: s-maj=25.1km s-min=15.8km az=62.0.
IDC II 09 12 04 24.2–2.1 53.50N 87.53E 0 3.3,3.3
¶16397884

IDC Error ellipse: s-maj=19.5km s-min=12.1km az=49.0.
ISC II 10 05 35 17.0–.31 52.20N–.03 91.67E–.02 14–1 5.3b,5.1s 1273 1-163
BJI II 10 05 35 12.8 52.26N 91.68E 7 5.9L,5.9s **¶16018376**
NNC II 10 05 35 12.8–2.9 52.40N 91.87E 0 6.0,5.8b
IDC II 10 05 35 14.4–.37 52.18N 91.86E 0 5.0,5.0
MOS II 10 05 35 14.7–1.1 52.13N 91.76E 10 5.5b,5.1s
NEIC II 10 05 35 16.5–.10 52.14N 91.78E 10 5.4b,5.3W
GCMT II 10 05 35 16.5–.10 52.22N 91.76E 26–0 5.5W,5.3W
ASRS II 10 05 35 16.1–.26 52.23N 91.79E 15 5.6s,5.3W
ISCJB II 10 05 35 16.2–.07 52.15N–.01 91.77E–.02 18 5.3b,5.1s
OBM II 10 05 35 17.0–.09 52.04N 91.99E 2 5.8L,5.1s
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=30.8km s-min=22.8km az=57.0.
IDC Error ellipse: s-maj=10.9km s-min=6.6km az=175.0.
MOS Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=121.3. Felt (III-IV) at Abakan, Minusinsk, Sayanogorsk; (III) at Kansk, Kemerovo, Krasnoyarsk, Novokuznetsk; (II-III) at Barnaul, Novosibirsk, Tomsk. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=2.8km s-min=2.2km az=176.0. Felt [IV] at Sayanogorsk; [III] at Abakan, Minusinsk and Novokuznetsk; [II] at Barnaul, Biysk, Kemerovo, Krasnoyarsk, Novosibirsk and Tomsk. Also felt at Abaza, Belovo, Berdsk, Chernogorsk, Cheryomushki, Kol'tsovo, Kyzyl, Mezhdurechensk and Sosnovoborsk. Felt at Oskemen, Kazakhstan. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.46 $M_{\theta\theta}$-0.94 $M_{\phi\phi}$0.48 $M_{r\theta}$0.05 $M_{\theta\phi}$1.05 $M_{\phi r}$0.19 Best double couple: NP1:ϕ_s342.00000°,δ79.00000°,λ167.00000°. NP2:ϕ_s74.00000°,δ77.00000°,λ11.00000°. Principal axes: T 1.1000,Plg17.0000° ,Azm298.0000°; N 0.4000,Plg73.0000°,Azm122.0000°; P -1.5000,Plg1.0000°,Azm28.0000° M_o1.30000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c166; s125,c242; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.13±.03 $M_{\theta\theta}$-1.21±.02; $M_{\phi\phi}$1.08±.03; $M_{r\theta}$0.23±.05; $M_{\theta\phi}$1.45±.02; $M_{\phi r}$-0.35±.05; Best double couple: NP1:ϕ_s341.00000°,δ88.00000° ,λ-168.00000°. NP2:ϕ_s251.00000°,δ78.00000°,λ-2.00000°. Principal axes: T 1.8100,Plg7.0000°,Azm115.0000°; N 0.1620,Plg78.0000°,Azm349.0000° ; P -1.9750,Plg10.0000°,Azm206.0000° M_o1.89200×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.7km az=5.7.
OBM Error ellipse: s-maj=1.6km s-min=0.7km az=171.0.
ISC II 12 00 54 59.6–1.9 53.48N–.09 87.0E–.10 10 3.6b 22 1-77
IDC II 12 00 54 56.2–.95 53.43N 87.50E 0 3.8,3.7 **¶16398042**
NNC II 12 00 54 59.6–1.2 53.44N 86.77E 0–8 4.5,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=11.9km s-min=10.5km az=159.0.
NNC Event type se. Error ellipse: s-maj=9.9km s-min=5.6km az=67.0.
NNC II 12 08 33 28.3–1.6 53.54N 87.07E 3–11 3.9b,3.7
¶16509549

NNC Event type se. Error ellipse: s-maj=13.2km s-min=7.2km az=66.0.
IDC II 12 10 46 34.5–2.8 54.22N 87.32E 0 3.2,3.2
¶16398063

IDC Error ellipse: s-maj=23.3km s-min=17.8km az=48.0.
ISC II 12 16 36 56.1–2.6 52.3N–.10 91.4E–.10 10 7 1-8
ASRS II 12 16 36 54.0–1.6 52.24N 91.60E 15 2.3s **¶16509564**
NNC II 12 16 37 12.4–8.7 52.81N 89.28E 4–37 3.5b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=80.5km s-min=40.1km az=3.0.
IDC II 13 08 33 16.4–2.2 54.10N 86.48E 0 3.3,3.3
¶16398100

IDC Error ellipse: s-maj=18.9km s-min=11.1km az=58.0.
IDC II 14 12 39 14.1–3.1 55.82N 86.53E 0 3.1,3.1
¶17192240

IDC Error ellipse: s-maj=32.7km s-min=19.9km az=59.0.
IDC II 15 09 06 41.1–3.2 55.37N 86.14E 0 3.2,3.2
¶17192294

IDC Error ellipse: s-maj=28.8km s-min=17.9km az=63.0.
ISC II 17 23 58 48.9–1.1 54.24N–.06 94.98E–.06 10 19 1-23
ISCJB II 17 23 58 48.5–.94 54.27N–.08 94.77E–.08 10 **¶16881326**
ASRS II 17 23 58 52.7–2.1 53.99N 95.20E 15 2.7s
MOS II 17 23 58 52.7–4.0 53.99N 95.20E 15 3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.7km az=175.1.
MOS Error ellipse: s-maj=17.2km s-min=16.3km az=10.7.
IDC II 18 05 23 30.3–3.0 54.74N 86.75E 0 2.8,2.8
¶17192460

IDC Error ellipse: s-maj=24.6km s-min=18.9km az=45.0.
IDC II 18 06 27 19.9–4.0 55.47N 86.35E 0 2.7,2.7
¶17192463

IDC Error ellipse: s-maj=30.5km s-min=26.8km az=3.0.
ISC II 18 21 07 16.7–.74 50.27N–.03 87.64E–.03 17–4 4.0b 118 0-108
IDC II 18 21 07 12.2–1.5 50.15N 88.13E 0 3.9,3.9 **¶16168874**
OBM II 18 21 07 13.3–.13 50.25N 88.08E 2 3.7L,3.9
ISCJB II 18 21 07 13.7–.78 50.09N–.03 87.66E–.05 10–4 4.0b,3.0s
MOS II 18 21 07 13.8–1.3 50.11N 87.70E 13 4.6b,3.0s
NEIC II 18 21 07 15.4–.33 50.23N 87.78E 10 4.2b,3.0s
ASRS II 18 21 07 17.2–.84 50.26N 87.72E 15 3.3s,3.0s
BJI II 18 21 07 18.2 50.23N 87.03E 43 4.1L,3.9b
NNC II 18 21 07 19.4–2.7 50.28N 87.22E 8–13 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=14.0km az=122.0.
OBM Error ellipse: s-maj=2.8km s-min=1.8km az=24.0.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.7km az=150.4.
MOS Error ellipse: s-maj=8.8km s-min=6.5km az=88.4.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.7km az=174.0.
NNC Event type se. Error ellipse: s-maj=21.4km s-min=12.7km az=81.0.
IDC II 19 06 50 58.4–2.3 54.12N 86.39E 0 3.4,3.4
NNC II 19 06 50 57.8–5.8 53.97N 86.96E 0 3.6b,3.3 **¶16398532**
IDC Error ellipse: s-maj=18.7km s-min=11.1km az=61.0.
NNC Event type se. Error ellipse: s-maj=51.3km s-min=39.4km az=81.0.
ISC II 19 19 14 57.4–1.0 50.35N–.05 87.86E–.04 15–6 39 0-77
MOS II 19 19 14 57.9–2.9 50.23N 87.81E 15 4.5b **¶16531944**
ASRS II 19 19 14 57.9–1.3 50.23N 87.81E 15 2.6s
NNC II 19 19 14 59.5–2.9 50.20N 87.55E 0 4.0b,3.8
ISC Event type se.
MOS Error ellipse: s-maj=15.2km s-min=9.3km az=77.9.
NNC Event type se. Error ellipse: s-maj=22.8km s-min=14.4km az=79.0.
IDC II 21 09 04 15.9–2.9 55.39N 86.36E 0 3.2,3.2
¶17192624

IDC Error ellipse: s-maj=28.2km s-min=18.3km az=61.0.
IDC II 22 10 06 23.2–3.6 53.68N 88.07E 0 2.9,2.9
¶17192698

IDC Error ellipse: s-maj=36.2km s-min=18.9km az=87.0.
ISC II 24 06 38 59.0–2.3 53.9N–.10 90.8E–.10 10 14 4-79
IDC II 24 06 38 55.6–2.1 53.69N 91.38E 0 3.7,3.7 **¶16398836**
NNC II 24 06 38 59.6–1.9 53.80N 90.55E 0 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=21.6km az=20.0.
NNC Event type se. Error ellipse: s-maj=16.0km s-min=13.4km az=177.0.
IDC II 24 10 11 49.6–3.2 54.31N 86.97E 0 2.7,2.7
¶17192782

IDC Error ellipse: s-maj=25.8km s-min=15.9km az=64.0.
IDC II 24 11 14 11.2–3.2 54.61N 86.68E 0 3.2,3.2
¶17192785

IDC Error ellipse: s-maj=26.4km s-min=16.4km az=57.0.
IDC II 25 06 18 04.1–2.5 54.10N 86.37E 0 3.4,3.4
¶16398886

IDC Error ellipse: s-maj=20.9km s-min=12.2km az=56.0.
IDC II 25 07 06 14.0–2.6 54.04N 86.52E 0 3.1,3.1
¶17192821

IDC Error ellipse: s-maj=21.7km s-min=12.7km az=58.0.
IDC II 26 08 16 47.3–2.9 54.15N 86.41E 0 2.8,2.8
¶17192895

IDC Error ellipse: s-maj=21.7km s-min=12.2km az=65.0.
IDC II 27 11 02 27.0–2.0 54.23N 86.02E 0 3.4,3.4
NNC II 27 11 02 30.0–4.5 53.99N 85.99E 0 3.8b,3.4 **¶16399103**
IDC Error ellipse: s-maj=17.0km s-min=9.8km az=61.0.
NNC Event type se. Error ellipse: s-maj=54.8km s-min=24.3km az=169.0.
IDC II 28 08 07 58.1–3.4 54.11N 86.76E 0 2.6,2.6
¶17192987

IDC Error ellipse: s-maj=29.3km s-min=17.0km az=48.0.
IDC II 28 08 18 34.7–2.6 53.71N 86.85E 0 2.8,2.8
¶17192989

IDC Error ellipse: s-maj=23.2km s-min=14.1km az=72.0.
IDC II 28 10 21 01.6–3.1 53.49N 87.79E 0 2.9,2.9
NNC II 28 10 21 04.7–6.1 53.28N 87.70E 0 3.4b,3.1 **¶16388231**
IDC Error ellipse: s-maj=27.5km s-min=14.9km az=62.0.
NNC Event type se. Error ellipse: s-maj=46.0km s-min=30.5km az=29.0.
IDC III 01 06 17 40.5–3.5 53.54N 90.90E 0 3.1,3.1
¶17193044

IDC Error ellipse: s-maj=33.6km s-min=24.4km az=28.0.
IDC III 01 07 06 06.4–3.1 53.54N 87.23E 0 2.8,2.8
¶17193048

IDC Error ellipse: s-maj=30.9km s-min=17.1km az=64.0.
ISC III 01 09 26 36.7–3.8 53.5N–.10 87.9E–.20 35 15 2-13
IDC III 01 09 26 31.9–2.9 53.49N 88.00E 0 3.8,3.8 **¶16484154**
NNC III 01 09 26 36.0–4.9 53.42N 87.54E 0 4.3b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=18.3km az=86.0.
NNC Event type se. Error ellipse: s-maj=34.8km s-min=24.9km az=77.0.
IDC III 01 09 51 46.8–3.1 54.55N 86.23E 0 2.9,2.9
NNC III 01 09 51 45.1–6.5 54.30N 86.88E 0 3.7b,3.3 **¶16484157**
IDC Error ellipse: s-maj=23.6km s-min=14.4km az=51.0.
NNC Event type se. Error ellipse: s-maj=44.9km s-min=40.8km az=69.0.
IDC III 01 10 00 34.9–2.7 54.20N 86.26E 0 2.7,2.7
¶17193061

IDC Error ellipse: s-maj=20.5km s-min=12.8km az=54.0.
ISC III 01 10 05 51.4–4.3 54.2N–.20 87.9E–.20 35 12 2-13
IDC III 01 10 05 48.9–3.3 54.10N 87.71E 0 2.9,2.9 **¶16484160**
NNC III 01 10 05 55.8–3.9 53.76N 87.46E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=29.6km s-min=18.0km az=81.0.
NNC Event type se. Error ellipse: s-maj=31.2km s-min=25.6km az=4.0.
ISC III 01 10 20 12.3–3.7 53.6N–.10 87.6E–.20 35 12 2-8

IDC III 01 10 20 07.1–2.8 53.57N 87.70E 0 3.3,3.3 ¶16484161
NNC III 01 10 20 09.9–4.1 53.56N 87.25E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=18.2km az=81.0.
NNC Event type se. Error ellipse: s-maj=33.5km s-min=26.2km az=5.0.
IDC III 02 09 34 38.7–3.0 54.47N 86.91E 0 2.9,2.9
¶17193121

IDC Error ellipse: s-maj=25.4km s-min=17.4km az=55.0.
IDC III 05 09 31 05.0–3.0 54.13N 87.22E 0 2.8,2.8
¶17193275

IDC Error ellipse: s-maj=31.0km s-min=17.8km az=56.0.
ISC III 05 10 09 31.7–4.0 53.8N–.10 88.0E–.20 35 11 2-11
IDC III 05 10 09 26.8–3.1 53.63N 87.96E 0 3.2,3.2 ¶16484400
NNC III 05 10 09 36.2–1.6 53.34N 87.44E 0 3.7b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=28.7km s-min=16.9km az=53.0.
NNC Event type se. Error ellipse: s-maj=13.3km s-min=10.2km az=13.0.
IDC III 05 10 10 07.6–2.8 55.43N 86.25E 0 3.2,3.2
¶17193277

IDC Error ellipse: s-maj=26.8km s-min=17.7km az=68.0.
ISC III 06 06 21 53.7–3.6 53.6N–.10 87.7E–.20 35 16 2-13
IDC III 06 06 21 49.6–2.6 53.52N 87.80E 0 3.4,3.4 ¶16484453
NNC III 06 06 21 53.3–1.6 53.42N 87.34E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=23.7km s-min=15.2km az=66.0.
NNC Event type se. Error ellipse: s-maj=11.5km s-min=9.5km az=32.0.
ISC III 06 10 24 23.6–3.9 53.7N–.10 87.9E–.20 10 8 2-13
IDC III 06 10 24 21.9–3.8 53.58N 88.02E 0 2.9,2.9 ¶16484475
ISC Event type ke.
IDC Error ellipse: s-maj=38.0km s-min=21.7km az=77.0.
NNC III 15 23 20 14.3–2.1 55.07N 86.19E 0 3.9b,3.6
¶16594126

NNC Event type se. Error ellipse: s-maj=20.0km s-min=10.5km az=77.0.
IDC III 16 07 54 39.4–1.6 51.06N 94.82E 0 3.1,3.1
¶17196387

IDC Error ellipse: s-maj=39.6km s-min=14.2km az=175.0.
IDC III 18 06 20 49.1–2.3 54.21N 86.19E 0 3.3,3.3
¶17196947

IDC Error ellipse: s-maj=18.3km s-min=11.9km az=53.0.
IDC III 18 10 59 04.4–2.5 54.23N 85.64E 0 2.8,2.8
¶17197004

IDC Error ellipse: s-maj=16.9km s-min=7.8km az=56.0.
IDC III 19 09 14 40.1–3.6 55.71N 85.93E 0 3.0,3.0
¶16479381

IDC Error ellipse: s-maj=31.5km s-min=25.9km az=15.0.
ISC III 19 09 43 42.8–3.9 53.7N–.10 88.0E–.20 35 13 2-8
IDC III 19 09 43 39.7–3.1 53.56N 87.81E 0 3.5,3.5 ¶16479393
NNC III 19 09 43 42.2–2.2 53.54N 87.53E 0 3.6b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=17.9km az=82.0.
NNC Event type se. Error ellipse: s-maj=17.8km s-min=13.6km az=12.0.
IDC III 19 11 26 39.2–2.7 54.24N 85.65E 0 3.1,3.1
¶17197203

IDC Error ellipse: s-maj=18.0km s-min=8.0km az=56.0.
IDC III 20 07 37 28.7–2.9 54.29N 85.98E 0 3.0,3.0
¶17197418

IDC Error ellipse: s-maj=19.8km s-min=10.9km az=53.0.
IDC III 21 06 09 32.6–2.5 54.15N 86.44E 0 3.0,3.0
NNC III 21 06 09 40.9–3.0 52.73N 86.77E 0 3.6b,3.2 ¶16479926
IDC Error ellipse: s-maj=20.4km s-min=13.0km az=55.0.
NNC Event type se. Error ellipse: s-maj=26.9km s-min=18.8km az=77.0.
IDC III 21 06 11 38.4–2.6 54.05N 86.50E 0 2.9,2.9
¶17197639

IDC Error ellipse: s-maj=21.3km s-min=13.6km az=60.0.
IDC III 22 05 26 19.0–3.1 54.65N 86.67E 0 3.1,3.1
¶17197931

IDC Error ellipse: s-maj=27.5km s-min=18.8km az=38.0.
ISC III 22 09 19 00.3–4.0 54.6N–.20 86.8E–.20 35 17 1-10
NNC III 22 09 18 59.0–6.3 54.39N 86.66E 0 3.7b,3.4 ¶16480193
IDC III 22 09 19 01.4–2.6 54.27N 86.61E 0 3.1,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=46.0km s-min=37.0km az=59.0.
IDC Error ellipse: s-maj=21.6km s-min=13.3km az=52.0.
ISC III 22 10 20 24.2–3.4 53.6N–.10 87.4E–.20 35 21 2-10
IDC III 22 10 20 18.1–2.4 53.50N 87.70E 0 3.7,3.7 ¶16480205
NNC III 22 10 20 25.7–3.1 53.40N 86.84E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=12.4km az=60.0.
NNC Event type se. Error ellipse: s-maj=25.6km s-min=14.0km az=63.0.
IDC III 22 10 59 11.5–2.1 54.23N 86.19E 0 3.2,3.2
¶17197991

IDC Error ellipse: s-maj=17.6km s-min=10.9km az=60.0.
IDC III 23 07 09 00.8–2.6 53.99N 87.45E 0 3.0,3.0
¶17198141

IDC Error ellipse: s-maj=22.0km s-min=14.3km az=68.0.
IDC III 24 06 43 26.0–2.5 54.17N 86.32E 0 3.0,3.0
¶17198299

IDC Error ellipse: s-maj=19.2km s-min=10.9km az=62.0.
NNC III 27 06 43 51.8–5.6 53.72N 87.40E 0 3.5b,3.1
¶16681449

NNC Event type se. Error ellipse: s-maj=49.4km s-min=31.5km az=81.0.
ISC III 28 10 38 57.8–4.3 54.4N–.20 87.4E–.20 35 11 2-10
IDC III 28 10 38 55.9–2.6 54.14N 87.39E 0 3.0,3.0 ¶16475500
NNC III 28 10 38 58.2–2.1 54.18N 87.00E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=15.2km az=63.0.
NNC Event type se. Error ellipse: s-maj=17.8km s-min=14.3km az=172.0.
IDC III 29 10 17 46.5–3.1 53.58N 87.79E 0 3.5,3.5
NNC III 29 10 17 51.2–3.3 53.45N 87.26E 0 3.7b,3.3 ¶16475651
IDC Error ellipse: s-maj=29.3km s-min=15.9km az=51.0.
NNC Event type se. Error ellipse: s-maj=26.1km s-min=21.1km az=14.0.
IDC III 30 06 34 46.1–3.2 54.54N 86.58E 0 2.8,2.8
¶16475785

IDC Error ellipse: s-maj=26.3km s-min=16.8km az=43.0.
ISC III 30 08 24 01.8–3.6 53.6N–.10 87.7E–.20 35 19 2-10
IDC III 30 08 23 57.3–2.3 53.50N 87.89E 0 3.7,3.7 ¶16475800
NNC III 30 08 24 02.7–1.7 53.47N 87.18E 3–10 4.0b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=13.1km az=62.0.
NNC Event type se. Error ellipse: s-maj=12.5km s-min=9.0km az=69.0.
NNC III 30 08 30 22.6–1.8 54.22N 85.68E 0–10 3.8b,3.5
¶16684707

NNC Event type se. Error ellipse: s-maj=12.4km s-min=8.4km az=59.0.
IDC III 30 09 29 23.1–3.0 54.38N 87.00E 0 3.0,3.0
¶17199188

IDC Error ellipse: s-maj=27.1km s-min=16.4km az=62.0.
IDC III 31 06 51 10.2–3.2 53.43N 87.57E 0 2.9,2.9
¶17199265

IDC Error ellipse: s-maj=33.4km s-min=17.0km az=57.0.
IDC III 31 08 15 12.1–3.0 54.20N 87.10E 0 2.7,2.7
NNC III 31 08 15 38.0–5.3 53.93N 81.84E 0 3.2b,2.8 ¶17199273
IDC Error ellipse: s-maj=26.4km s-min=17.8km az=58.0.
NNC Error ellipse: s-maj=60.5km s-min=32.4km az=144.0.
ISC III 31 09 48 06.4–3.7 53.5N–.10 87.8E–.20 35 14 2-8
IDC III 31 09 48 01.4–2.7 53.57N 87.81E 0 3.4,3.4 ¶16475937
NNC III 31 09 48 06.4–3.5 53.26N 87.45E 0 3.5b,3.1
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=17.7km az=83.0.
NNC Event type se. Error ellipse: s-maj=26.3km s-min=19.8km az=32.0.
IDC III 31 10 52 22.5–2.9 53.65N 86.84E 0 3.2,3.2
¶17199287

IDC Error ellipse: s-maj=28.9km s-min=15.5km az=62.0.
ISC IV 02 09 57 45.2–4.1 54.3N–.10 87.1E–.20 35 18 1-11
IDC IV 02 09 57 41.4–2.5 54.19N 87.23E 0 3.4,3.4 ¶16705267
NNC IV 02 09 57 47.4–1.8 54.10N 86.49E 1–10 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=21.9km s-min=13.9km az=57.0.
NNC Event type se. Error ellipse: s-maj=12.6km s-min=7.9km az=58.0.
IDC IV 02 11 27 39.5–3.5 54.26N 87.38E 0 2.7,2.7
¶17199519

IDC Error ellipse: s-maj=32.7km s-min=19.3km az=41.0.
IDC IV 04 12 43 23.7–3.0 53.62N 88.02E 0 3.4,3.4
¶16705555

IDC Error ellipse: s-maj=30.0km s-min=17.4km az=49.0.
IDC IV 05 09 17 01.9–3.3 54.48N 87.17E 0 3.1,3.1
¶17199871

IDC Error ellipse: s-maj=30.5km s-min=19.1km az=45.0.
IDC IV 05 11 02 40.3–3.2 53.42N 87.89E 0 2.8,2.8
¶17199882

IDC Error ellipse: s-maj=29.4km s-min=16.8km az=58.0.
IDC IV 06 06 21 50.4–2.5 54.14N 86.42E 0 3.4,3.4
¶17199974

IDC Error ellipse: s-maj=19.6km s-min=11.8km az=60.0.
IDC IV 06 08 27 58.7–2.9 53.58N 91.11E 0 3.4,3.4
¶17199986

IDC Error ellipse: s-maj=26.0km s-min=19.3km az=55.0.
ISC IV 06 10 28 23.4–3.8 53.7N–.10 87.6E–.20 35 11 2-10
IDC IV 06 10 28 19.1–2.3 53.54N 87.75E 0 3.7,3.7 ¶16705796
ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=13.0km az=60.0.
IDC IV 07 10 19 20.1–2.0 54.60N 83.51E 0 2.6,2.6
¶17200097

IDC Error ellipse: s-maj=17.2km s-min=10.5km az=162.0.
IDC IV 07 12 32 07.7–2.3 54.26N 86.20E 0 3.6,3.6
¶17200112

IDC Error ellipse: s-maj=17.6km s-min=11.1km az=54.0.
IDC IV 08 06 34 44.6–2.5 53.95N 86.51E 0 2.8,2.8
¶17200207

IDC Error ellipse: s-maj=21.2km s-min=13.3km az=56.0.
IDC IV 08 07 30 21.2–3.2 54.05N 87.57E 0 2.6,2.6
¶17200217

IDC Error ellipse: s-maj=25.7km s-min=16.0km az=59.0.
IDC IV 08 07 46 55.1–3.0 54.55N 87.00E 0 2.6,2.6
¶17200220

IDC Error ellipse: s-maj=24.4km s-min=20.5km az=42.0.
IDC IV 08 07 51 46.5–2.6 53.67N 86.90E 0 2.7,2.7
¶17200221

IDC Error ellipse: s-maj=23.7km s-min=15.0km az=73.0.
IDC IV 08 08 58 09.8–3.0 53.57N 87.79E 0 2.9,2.9
¶17200224

IDC Error ellipse: s-maj=25.7km s-min=16.8km az=49.0.
IDC IV 08 09 51 01.2–2.9 53.58N 87.92E 0 2.9,2.9
¶17200230

IDC Error ellipse: s-maj=23.3km s-min=15.7km az=65.0.
IDC IV 09 09 18 04.1–2.9 53.77N 88.13E 0 3.0,3.0
¶17200318

IDC Error ellipse: s-maj=23.9km s-min=16.3km az=58.0.
IDC IV 10 05 24 51.2–2.5 54.13N 86.47E 0 3.8,3.8
¶16706245

IDC Error ellipse: s-maj=20.5km s-min=14.0km az=42.0.
IDC IV 10 09 18 18.5–3.0 54.61N 86.69E 0 3.3,3.3
¶17200441

IDC Error ellipse: s-maj=23.7km s-min=17.6km az=54.0.
IDC IV 10 12 17 50.1–3.1 54.20N 87.26E 0 2.9,2.9
¶17200461

IDC Error ellipse: s-maj=27.9km s-min=19.5km az=51.0.
IDC IV 11 06 32 46.6–2.5 54.15N 86.37E 0 2.9,2.9
¶17200532

IDC Error ellipse: s-maj=19.1km s-min=12.5km az=62.0.
ISC IV 11 07 55 47.7–4.5 54.5N–.20 87.0E–.20 35 10 1-10
IDC IV 11 07 55 47.0–2.6 54.30N 86.89E 0 3.1,3.1 ¶16706377
NNC IV 11 07 55 47.6–1.7 53.85N 87.30E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=13.5km az=61.0.
NNC Event type se. Error ellipse: s-maj=21.7km s-min=12.4km az=167.0.
IDC IV 11 11 58 24.7–3.5 54.46N 86.79E 0 3.0,3.0
¶17200602

IDC Error ellipse: s-maj=31.6km s-min=19.2km az=47.0.
IDC IV 12 06 33 52.0–3.0 53.97N 86.53E 0 2.7,2.7
¶17200742

IDC Error ellipse: s-maj=22.6km s-min=14.1km az=63.0.
IDC IV 12 07 15 22.4–2.7 54.02N 86.55E 0 2.9,2.9
¶17200751

IDC Error ellipse: s-maj=23.1km s-min=13.7km az=55.0.
IDC IV 12 07 16 51.2–2.9 53.51N 87.91E 0 3.1,3.1
¶17200752

IDC Error ellipse: s-maj=27.1km s-min=18.0km az=87.0.
IDC IV 12 07 30 26.9–2.5 54.13N 86.48E 0 3.3,3.3
¶17200754

IDC Error ellipse: s-maj=20.8km s-min=12.7km az=58.0.
IDC IV 12 08 35 42.8–2.6 53.73N 86.77E 0 2.9,2.9
¶17200763

IDC Error ellipse: s-maj=22.8km s-min=13.7km az=69.0.
IDC IV 13 05 32 22.2–2.5 53.92N 86.51E 0 2.8,2.8
¶17200861

IDC Error ellipse: s-maj=20.3km s-min=13.9km az=65.0.
IDC IV 13 08 05 01.1–2.9 54.33N 87.11E 0 3.0,3.0
¶16706731

IDC Error ellipse: s-maj=26.2km s-min=18.7km az=54.0.
IDC IV 13 09 59 28.2–3.2 53.60N 87.98E 0 3.0,3.0
¶17200885

IDC Error ellipse: s-maj=29.1km s-min=17.4km az=54.0.
IDC IV 14 09 09 55.5–2.8 53.53N 87.82E 0 3.0,3.0
¶17201000

IDC Error ellipse: s-maj=23.6km s-min=17.2km az=60.0.
IDC IV 14 09 26 57.4–2.3 53.53N 87.71E 0 3.6,3.6
¶16706860

IDC Error ellipse: s-maj=20.4km s-min=12.8km az=63.0.
IDC IV 14 12 35 52.5–2.7 54.23N 86.17E 0 3.3,3.3
¶17201023

IDC Error ellipse: s-maj=21.0km s-min=13.5km az=48.0.
IDC IV 14 12 45 59.4–2.5 54.12N 86.45E 0 3.2,3.2
¶17201025

IDC Error ellipse: s-maj=20.1km s-min=12.7km az=55.0.
IDC IV 15 05 10 38.4–2.8 54.17N 86.42E 0 2.8,2.8
¶17201091

IDC Error ellipse: s-maj=21.8km s-min=12.8km az=62.0.
ISC IV 15 07 11 35.1–4.2 54.2N–.20 87.1E–.20 35 11 1-10
NNC IV 15 07 10 27.9–4.6 54.94N 91.11E 0 3.5b,3.5 ¶17201101
IDC IV 15 07 11 32.1–2.5 54.09N 87.19E 0 3.0,3.0
ISC Event type ke.
NNC Event type se. Error ellipse: s-maj=36.4km s-min=27.0km az=1.0.
IDC Error ellipse: s-maj=21.5km s-min=14.4km az=59.0.
IDC IV 15 07 54 10.7–3.2 53.69N 90.78E 0 3.4,3.4
¶17201104

IDC Error ellipse: s-maj=27.5km s-min=23.4km az=51.0.
IDC IV 15 08 21 39.4–3.7 53.73N 88.10E 0 2.9,2.9
¶17201107

IDC Error ellipse: s-maj=36.1km s-min=18.9km az=48.0.
IDC IV 15 12 19 07.7–3.4 54.24N 87.58E 0 2.8,2.8
¶17201131

IDC Error ellipse: s-maj=28.2km s-min=19.8km az=42.0.

IDC IV 15 12 35 06.8–3.0 54.07N 87.31E 0 3.0,3.0
¶17201132

IDC Error ellipse: s-maj=31.4km s-min=17.8km az=51.0.
IDC IV 16 06 35 43.2–2.5 54.19N 86.35E 0 3.3,3.3
¶16707066

IDC Error ellipse: s-maj=19.4km s-min=11.7km az=59.0.
IDC IV 16 09 52 13.0–2.8 54.35N 87.07E 0 3.0,3.0
¶17201205

IDC Error ellipse: s-maj=22.9km s-min=16.4km az=62.0.
IDC IV 17 08 37 08.4–2.4 54.15N 86.43E 0 3.2,3.2
¶17201295

IDC Error ellipse: s-maj=20.1km s-min=12.9km az=53.0.
IDC IV 17 12 36 35.1–2.8 54.12N 87.25E 0 2.9,2.9
¶17201316

IDC Error ellipse: s-maj=22.7km s-min=16.3km az=62.0.
ISC IV 17 23 07 22.5–.81 53.41N–.07 87.15E–.08 35 3.7b 40 1-63
IDC IV 17 23 07 17.2–.77 53.39N 87.46E 0 3.8,3.7 ¶16505419
ISCJB IV 17 23 07 21.0–.59 53.39N–.04 86.88E–.07 33 3.7b,3.7
NNC IV 17 23 07 24.1–1.3 53.23N 86.45E 0 4.5,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=10.7km s-min=9.1km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.5km az=179.5.
NNC Event type se. Error ellipse: s-maj=10.9km s-min=6.2km az=61.0.
IDC IV 18 10 21 39.9–2.6 53.75N 87.16E 0 2.9,2.9
¶17201408

IDC Error ellipse: s-maj=22.5km s-min=14.8km az=73.0.
IDC IV 19 08 08 55.7–2.6 53.57N 87.91E 0 3.1,3.1
¶16707378

IDC Error ellipse: s-maj=22.8km s-min=14.3km az=66.0.
IDC IV 19 08 58 26.8–2.6 53.54N 87.60E 0 3.4,3.4
NNC IV 19 08 58 29.8–3.9 53.43N 87.32E 0 3.8b,3.5 ¶16707381
IDC Error ellipse: s-maj=24.8km s-min=13.0km az=59.0.
NNC Event type se. Error ellipse: s-maj=29.8km s-min=26.7km az=34.0.
IDC IV 19 09 40 34.2–3.3 55.60N 85.98E 0 2.8,2.8
¶17201488

IDC Error ellipse: s-maj=26.7km s-min=24.2km az=54.0.
IDC IV 19 11 10 23.3–1.4 54.38N 86.36E 0 3.4,3.4
¶17201493

IDC Error ellipse: s-maj=14.7km s-min=10.9km az=171.0.
IDC IV 21 05 15 17.0–2.6 54.07N 86.41E 0 3.0,3.0
¶17201675

IDC Error ellipse: s-maj=22.3km s-min=14.4km az=47.0.
IDC IV 21 06 16 56.7–2.5 54.10N 86.43E 0 3.5,3.5
¶16707579

IDC Error ellipse: s-maj=21.6km s-min=13.9km az=45.0.
IDC IV 21 06 41 12.3–2.3 54.13N 86.26E 0 3.2,3.2
¶17201680

IDC Error ellipse: s-maj=18.2km s-min=11.5km az=60.0.
IDC IV 21 09 01 37.0–2.8 53.53N 88.04E 0 3.4,3.4
¶17201700

IDC Error ellipse: s-maj=23.5km s-min=16.0km az=61.0.
IDC IV 21 09 53 27.7–3.2 54.64N 86.51E 0 3.1,3.1
¶17201704

IDC Error ellipse: s-maj=24.6km s-min=16.0km az=47.0.
IDC IV 22 12 00 48.0–2.6 53.49N 87.62E 0 3.4,3.4
¶17201811

IDC Error ellipse: s-maj=22.4km s-min=13.7km az=61.0.
ISC IV 24 01 00 11.3–1.1 52.93N–.08 87.75E–.10 10 3.4b 15 2-64
ISCJB IV 24 01 00 09.5–.93 52.89N–.06 87.7E–.10 10 3.3b,3.3s ¶16707832
IDC IV 24 01 00 09.7–1.1 52.85N 87.90E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=7.3km az=33.0.
IDC Error ellipse: s-maj=13.5km s-min=10.5km az=125.0.
IDC IV 24 08 22 33.3–3.3 54.11N 87.40E 0 3.0,3.0
¶17201947

IDC Error ellipse: s-maj=27.7km s-min=15.6km az=67.0.
IDC IV 25 09 43 01.9–3.0 53.68N 87.88E 0 3.3,3.3
¶17202035

IDC Error ellipse: s-maj=24.8km s-min=15.3km az=60.0.
ISC IV 25 09 49 01.3–3.9 53.6N–.10 87.7E–.20 35 9 2-8
IDC IV 25 09 48 57.3–2.9 53.55N 87.72E 0 3.2,3.2 ¶16707953
ISC Event type ke.
IDC Error ellipse: s-maj=24.2km s-min=14.8km az=59.0.
IDC IV 25 10 10 35.6–2.5 53.60N 86.70E 0 2.8,2.8
¶17202037

IDC Error ellipse: s-maj=23.1km s-min=13.3km az=72.0.
IDC IV 26 07 12 07.8–2.4 54.04N 86.44E 0 3.0,3.0
¶17202113

IDC Error ellipse: s-maj=19.1km s-min=11.4km az=63.0.
IDC IV 27 08 49 40.4–2.4 54.15N 86.48E 0 3.5,3.5
¶17202222

IDC Error ellipse: s-maj=19.1km s-min=12.0km az=59.0.
IDC IV 27 12 25 08.7–2.0 54.27N 86.00E 0 3.4,3.4
¶17202236

IDC Error ellipse: s-maj=16.7km s-min=9.2km az=58.0.
IDC IV 28 12 03 14.9–3.3 54.17N 87.37E 0 3.2,3.2
¶17202300

IDC Error ellipse: s-maj=31.0km s-min=18.3km az=51.0.
IDC IV 29 05 05 56.5–2.9 54.04N 86.51E 0 3.1,3.1
¶17202348

IDC Error ellipse: s-maj=23.7km s-min=13.8km az=63.0.
IDC IV 29 07 12 46.6–3.8 54.32N 87.33E 0 2.7,2.7
¶17202356

IDC Error ellipse: s-maj=34.7km s-min=22.0km az=39.0.
IDC IV 29 08 12 19.9–2.5 53.52N 87.63E 0 3.3,3.3
¶16708302

IDC Error ellipse: s-maj=22.3km s-min=13.4km az=65.0.
IDC IV 29 09 07 21.8–3.8 53.68N 90.59E 0 3.7,3.7
¶17202367

IDC Error ellipse: s-maj=36.4km s-min=24.6km az=52.0.
IDC IV 29 12 19 56.6–2.4 54.12N 87.14E 0 3.1,3.1
¶17202382

IDC Error ellipse: s-maj=20.7km s-min=14.7km az=58.0.
ISC V 01 01 00 31.1–2.5 53.11N–.09 87.5E–.20 35 12 2-35
IDC V 01 01 00 27.4–2.4 53.07N 87.46E 0 3.3,3.3 ¶16708444
NNC V 01 01 00 28.9–5.4 52.88N 87.38E 0 3.5b,3.0
ISC Event type se.
IDC Error ellipse: s-maj=23.3km s-min=12.4km az=70.0.
NNC Event type se. Error ellipse: s-maj=42.0km s-min=32.3km az=38.0.
IDC V 02 07 35 46.0–2.5 54.16N 86.37E 0 3.4,3.4
¶17202593

IDC Error ellipse: s-maj=20.0km s-min=11.8km az=59.0.
IDC V 03 06 15 03.8–2.8 53.39N 87.38E 0 2.9,2.9
¶17202659

IDC Error ellipse: s-maj=26.0km s-min=15.0km az=65.0.
IDC V 04 09 22 43.6–2.7 53.49N 87.73E 0 3.0,3.0
¶17202741

IDC Error ellipse: s-maj=25.6km s-min=15.6km az=56.0.
IDC V 04 11 46 08.2–3.0 54.21N 87.29E 0 3.0,3.0
¶17202751

IDC Error ellipse: s-maj=24.0km s-min=17.8km az=55.0.
IDC V 05 06 16 02.5–2.9 53.40N 87.24E 0 2.9,2.9
¶17202825

IDC Error ellipse: s-maj=28.8km s-min=15.3km az=65.0.
IDC V 05 09 06 11.4–2.8 53.59N 87.86E 0 3.3,3.3
¶17202832

IDC Error ellipse: s-maj=26.6km s-min=17.8km az=83.0.
IDC V 05 12 40 47.1–2.4 54.28N 86.08E 0 3.1,3.1
¶17202845

IDC Error ellipse: s-maj=18.2km s-min=11.2km az=53.0.
IDC V 06 08 23 50.8–2.8 54.45N 87.11E 0 3.1,3.1
¶16708997

IDC Error ellipse: s-maj=23.2km s-min=17.2km az=59.0.
IDC V 06 09 26 03.8–3.0 53.55N 87.75E 0 3.2,3.2
¶16709005

IDC Error ellipse: s-maj=31.7km s-min=17.3km az=85.0.
IDC V 07 12 10 50.1–2.8 54.09N 87.32E 0 3.6,3.5
¶17202986

IDC Error ellipse: s-maj=28.0km s-min=16.6km az=61.0.
IDC V 08 00 40 25.1–2.0 53.61N 88.08E 0 4.0,3.9
¶16709128

IDC Error ellipse: s-maj=19.7km s-min=13.9km az=62.0.
ISC V 11 05 04 37.5–.92 52.30N–.04 91.52E–.05 10 22 1-46
ASRS V 11 05 04 37.2–1.0 52.27N 91.50E 15 2.8s ¶16882076
MOS V 11 05 04 40.4–1.2 52.11N 91.26E 10 4.4b
NNC V 11 05 04 47.7–2.6 51.48N 90.81E 0 3.9b,3.6
ISC Event type se.
MOS Error ellipse: s-maj=20.0km s-min=15.4km az=140.6.
NNC Event type se. Error ellipse: s-maj=23.2km s-min=18.2km az=29.0.
ISC V 11 08 41 31.4–4.0 53.6N–.10 88.5E–.20 35 10 2-11
NNC V 11 08 41 31.1–1.7 53.32N 88.41E 0 4.0b,3.6 ¶16709571
IDC V 11 08 41 35.8–2.6 53.50N 87.62E 0 3.6,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=12.5km az=40.0.
IDC Error ellipse: s-maj=22.4km s-min=13.2km az=62.0.
IDC V 12 07 26 25.8–3.1 53.41N 87.48E 0 3.1,3.1
NNC V 12 07 25 27.1–1.1 54.53N 90.01E 0 3.7b,3.5 ¶17203464
IDC Error ellipse: s-maj=29.2km s-min=15.6km az=59.0.
NNC Event type se. Error ellipse: s-maj=8.2km s-min=7.2km az=178.0.
IDC V 12 08 02 56.6–4.2 53.78N 88.35E 0 2.7,2.7
¶17203466

IDC Error ellipse: s-maj=42.3km s-min=28.4km az=66.0.
IDC V 14 05 18 34.2–2.4 54.10N 86.44E 0 3.2,3.2
NNC V 14 05 18 37.7–2.5 53.98N 86.18E 0 3.5b,3.1 ¶16709824
IDC Error ellipse: s-maj=19.3km s-min=11.7km az=58.0.
NNC Event type se. Error ellipse: s-maj=20.4km s-min=16.4km az=177.0.
IDC V 14 05 45 21.5–2.6 54.20N 86.41E 0 3.0,3.0
¶16709825

IDC Error ellipse: s-maj=20.4km s-min=12.6km az=59.0.
IDC V 14 06 11 02.8–3.6 53.70N 88.10E 0 3.1,3.1
¶16709828

IDC Error ellipse: s-maj=35.8km s-min=20.4km az=82.0.
IDC V 14 06 36 20.1–3.4 54.40N 86.97E 0 2.9,2.9
¶17203590

IDC Error ellipse: s-maj=30.4km s-min=20.3km az=54.0.
IDC V 15 13 03 10.1–2.1 54.27N 86.13E 0 3.3,3.3
¶16709947

IDC Error ellipse: s-maj=16.6km s-min=10.1km az=56.0.
ISC V 16 09 56 59.2–4.5 54.3N–.20 87.0E–.20 35 10 1-8
IDC V 16 09 56 54.3–3.0 54.19N 87.27E 0 3.2,3.2 ¶16710006
NNC V 16 09 57 01.0–7.2 53.81N 86.91E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=16.4km az=66.0.
NNC Event type se. Error ellipse: s-maj=52.5km s-min=44.5km az=25.0.
IDC V 16 12 27 29.7–2.6 54.12N 86.47E 0 3.3,3.3
¶17203750

IDC Error ellipse: s-maj=21.0km s-min=13.3km az=56.0.
IDC V 17 06 44 09.7–2.5 54.15N 86.36E 0 3.1,3.1
NNC V 17 06 44 10.4–5.0 54.06N 86.59E 0 3.5b,3.1 ¶16710069
IDC Error ellipse: s-maj=20.6km s-min=12.8km az=53.0.
NNC Event type se. Error ellipse: s-maj=57.5km s-min=29.8km az=170.0.
IDC V 17 06 56 43.2–2.8 53.33N 87.48E 0 2.5,2.5
¶17203795

IDC Error ellipse: s-maj=27.2km s-min=16.7km az=62.0.
ISC V 17 08 50 46.5–3.6 53.6N–.10 87.6E–.20 35 13 2-10
IDC V 17 08 50 42.4–2.3 53.47N 87.72E 0 3.4,3.4 ¶16710088
NNC V 17 08 50 46.5–1.3 53.41N 87.14E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=20.9km s-min=12.8km az=63.0.
NNC Event type se. Error ellipse: s-maj=10.2km s-min=8.2km az=16.0.
IDC V 17 09 24 19.5–3.4 54.25N 87.41E 0 2.9,2.9
¶17203811

IDC Error ellipse: s-maj=29.3km s-min=19.9km az=43.0.
IDC V 18 07 00 44.4–3.1 54.29N 86.86E 0 2.6,2.6
¶17203857

IDC Error ellipse: s-maj=24.9km s-min=17.8km az=52.0.
IDC V 18 12 10 41.7–3.2 53.77N 90.74E 0 3.1,3.1
¶17203877

IDC Error ellipse: s-maj=27.4km s-min=22.3km az=56.0.
ISC V 18 12 45 01.8–5.9 54.2N–.30 85.6E–.30 35 8 1-9
NNC V 18 12 44 17.6–6.4 54.20N 88.27E 0 4.0b,3.7 ¶16710184
IDC V 18 12 44 55.7–2.0 54.24N 85.97E 0 3.6,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=47.5km s-min=39.9km az=15.0.
IDC Error ellipse: s-maj=16.0km s-min=8.9km az=58.0.
IDC V 19 05 00 32.7–8.6 54.90N 81.99E 0
¶17203945

IDC Error ellipse: s-maj=48.8km s-min=36.0km az=119.0.
IDC V 19 12 31 42.4–3.1 54.69N 87.05E 0 3.0,3.0
¶16710297

IDC Error ellipse: s-maj=23.9km s-min=18.6km az=55.0.
IDC V 20 07 44 25.2–4.1 53.79N 90.88E 0 3.2,3.2
NNC V 20 07 44 25.2–4.7 53.61N 90.87E 0 3.7b,3.4 ¶16710367
IDC Error ellipse: s-maj=40.8km s-min=25.5km az=28.0.
NNC Event type se. Error ellipse: s-maj=35.8km s-min=31.2km az=30.0.
IDC V 20 08 54 14.2–3.1 53.59N 87.76E 0 3.2,3.2
NNC V 20 08 54 19.6–2.7 53.14N 87.48E 0 3.6b,3.2 ¶16710372
IDC Error ellipse: s-maj=27.3km s-min=16.4km az=57.0.
NNC Event type se. Error ellipse: s-maj=23.1km s-min=19.3km az=67.0.
IDC V 20 10 59 21.6–2.8 53.57N 87.86E 0 3.3,3.3
NNC V 20 10 59 24.3–2.2 53.35N 87.63E 0 3.6b,3.2 ¶16710381
IDC Error ellipse: s-maj=24.0km s-min=15.0km az=58.0.
NNC Event type se. Error ellipse: s-maj=16.3km s-min=13.5km az=39.0.
IDC V 20 19 21 13.8–912 50.94N 85.70E 0
¶17204074

IDC Error ellipse: s-maj=355.2km s-min=73.0km az=169.0.
IDC V 21 11 29 06.1–4.2 53.75N 88.17E 0 3.0,3.0
¶17204131

IDC Error ellipse: s-maj=45.6km s-min=19.8km az=84.0.
IDC V 23 09 55 44.8–3.0 54.43N 86.97E 0 3.1,3.1
NNC V 23 09 55 02.8–4.4 54.48N 89.23E 0 3.8b,3.5 ¶16710705
IDC Error ellipse: s-maj=25.3km s-min=17.5km az=60.0.
NNC Event type se. Error ellipse: s-maj=30.8km s-min=20.4km az=60.0.
IDC V 23 10 14 49.9–3.8 53.60N 87.87E 0 3.3,3.3
NNC V 23 10 14 57.1–3.9 53.29N 87.14E 0 3.5b,3.2 ¶16710706
IDC Error ellipse: s-maj=42.0km s-min=18.8km az=83.0.
NNC Event type se. Error ellipse: s-maj=41.2km s-min=33.0km az=3.0.
IDC V 23 13 04 33.1–2.5 54.13N 86.39E 0 3.7,3.7
¶17204301

IDC Error ellipse: s-maj=20.9km s-min=13.1km az=52.0.
IDC V 24 05 13 44.7–2.6 54.14N 86.48E 0 3.2,3.2
¶17204355

IDC Error ellipse: s-maj=21.0km s-min=12.7km az=57.0.
IDC V 24 09 25 48.7–2.8 53.57N 87.79E 0 3.2,3.2
¶17204368

IDC Error ellipse: s-maj=23.5km s-min=14.7km az=60.0.
IDC V 24 11 34 16.8–2.8 54.15N 87.27E 0 3.3,3.3
¶16710810

IDC Error ellipse: s-maj=24.7km s-min=16.3km az=61.0.
IDC V 24 12 28 30.0–2.6 54.15N 86.28E 0 2.9,2.9
¶17204379

IDC Error ellipse: s-maj=19.1km s-min=11.8km az=61.0.

IDC V 24 12 34 34.8–2.6 54.01N 86.45E 0 2.9,2.9
¶17204380

IDC Error ellipse: s-maj=21.8km s-min=13.1km az=61.0.
ISC V 26 08 00 27.4–4.3 53.6N–.20 90.5E–.20 35 9 3-12
IDC V 26 08 00 24.3–3.5 53.48N 90.49E 0 3.1,3.1 **¶16710952**
NNC V 26 08 00 26.2–2.9 53.47N 90.29E 0 3.6b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=23.3km az=37.0.
NNC Event type se. Error ellipse: s-maj=25.2km s-min=21.9km az=171.0.
IDC V 27 09 16 36.3–3.2 53.55N 87.67E 0 3.4,3.4
¶17204556

IDC Error ellipse: s-maj=33.7km s-min=17.5km az=86.0.
ISC V 28 08 35 32.0–.82 53.69N–.09 87.90E–.08 35 3.4b 12 2-84
IDC V 28 08 35 27.2–.86 53.66N 88.03E 0 3.8,3.8L **¶17204613**
ISCJB V 28 08 35 29.6–.71 53.67N–.07 87.8E–.10 33 3.5b,3.8L
ISC Event type ke.
ISCJB Event type ke.
IDC V 28 10 03 31.5–2.9 54.18N 87.30E 0 3.2,3.2
¶17204619

IDC Error ellipse: s-maj=23.5km s-min=17.3km az=58.0.
IDC V 28 12 39 31.2–2.1 54.26N 86.02E 0 3.3,3.3
¶17204628

IDC Error ellipse: s-maj=16.8km s-min=11.0km az=55.0.
IDC V 29 05 23 28.9–2.6 54.19N 86.33E 0 2.9,2.9
¶17204672

IDC Error ellipse: s-maj=19.9km s-min=12.3km az=60.0.
IDC V 29 07 16 01.9–3.1 54.64N 86.66E 0 3.0,3.0
¶17204681

IDC Error ellipse: s-maj=27.4km s-min=17.5km az=45.0.
IDC V 29 07 21 53.5–2.4 54.14N 86.44E 0 3.5,3.5
¶17204682

IDC Error ellipse: s-maj=20.5km s-min=12.7km az=56.0.
IDC V 29 09 24 39.4–2.5 54.49N 86.41E 0 3.3,3.3
¶17204685

IDC Error ellipse: s-maj=20.0km s-min=12.6km az=54.0.
IDC V 29 19 29 53.8–2.4 51.55N 93.94E 0 2.8,2.8
NNC V 29 19 29 59.5–10 51.61N 93.02E 0 3.8b,3.5 **¶16711237**
IDC Error ellipse: s-maj=40.0km s-min=21.7km az=9.0.
NNC Event type se. Error ellipse: s-maj=104.2km s-min=84.2km az=176.0.
ISC V 30 09 50 20.1–4.2 54.0N–.10 90.6E–.20 10 14 3-9
IDC V 30 09 50 21.6–3.4 53.77N 90.79E 0 3.5,3.5 **¶16702290**
NNC V 30 09 50 23.8–2.4 53.74N 90.39E 0 4.0b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=25.6km az=72.0.
NNC Event type se. Error ellipse: s-maj=18.5km s-min=17.2km az=168.0.
IDC VI 01 07 01 29.6–2.6 54.54N 86.20E 0 3.0,3.0
¶17204867

IDC Error ellipse: s-maj=21.1km s-min=13.1km az=56.0.
ISC VI 01 08 53 49.8–3.8 53.7N–.10 87.7E–.20 35 13 2-10
IDC VI 01 08 53 47.0–2.5 53.57N 87.71E 0 3.4,3.4 **¶16856001**
NNC VI 01 08 53 48.0–3.4 53.55N 87.58E 0 3.6b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=13.1km az=63.0.
NNC Event type se. Error ellipse: s-maj=26.2km s-min=22.0km az=12.0.
IDC VI 02 06 13 40.1–2.5 54.29N 86.24E 0 3.3,3.3
NNC VI 02 06 13 44.2–3.3 54.02N 85.98E 0 3.8b,3.4 **¶17204950**
IDC Error ellipse: s-maj=20.2km s-min=14.2km az=40.0.
NNC Event type se. Error ellipse: s-maj=37.9km s-min=28.9km az=161.0.
IDC VI 02 08 06 46.3–3.1 54.57N 86.55E 0 3.0,3.0
¶17204966

IDC Error ellipse: s-maj=25.7km s-min=17.0km az=48.0.
IDC VI 03 05 22 14.0–2.5 54.02N 86.51E 0 3.3,3.3
¶17205060

IDC Error ellipse: s-maj=20.9km s-min=12.4km az=61.0.
IDC VI 03 07 24 17.5–3.4 53.60N 87.96E 0 2.8,2.8
¶17205072

IDC Error ellipse: s-maj=34.9km s-min=18.7km az=86.0.
IDC VI 03 10 42 03.9–2.9 53.51N 87.63E 0 3.2,3.2
¶17205088

IDC Error ellipse: s-maj=25.8km s-min=14.3km az=63.0.
IDC VI 03 12 11 26.9–3.4 53.74N 88.36E 0 3.2,3.2
¶17205096

IDC Error ellipse: s-maj=32.2km s-min=19.6km az=84.0.
IDC VI 04 04 54 25.8–2.9 54.44N 87.03E 0 3.1,3.1
¶17205158

IDC Error ellipse: s-maj=24.1km s-min=20.3km az=45.0.
ISC VI 06 05 12 05.2–5.5 54.3N–.20 86.2E–.30 35 8 1-8
IDC VI 06 05 12 01.2–2.7 54.13N 86.51E 0 3.7,3.7 **¶17205389**
NNC VI 06 05 12 04.8–3.4 53.88N 86.38E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=13.6km az=51.0.
NNC Event type se. Error ellipse: s-maj=30.8km s-min=23.8km az=82.0.
IDC VI 06 09 44 12.9–2.8 54.19N 87.26E 0 3.1,3.1
¶17205403

IDC Error ellipse: s-maj=22.7km s-min=16.2km az=63.0.
IDC VI 06 10 14 34.0–2.6 53.72N 86.74E 0 2.9,2.9
¶17205406

IDC Error ellipse: s-maj=23.4km s-min=14.3km az=66.0.
IDC VI 07 07 21 56.5–3.0 53.39N 87.40E 0 2.8,2.8
¶17205462

IDC Error ellipse: s-maj=29.2km s-min=15.5km az=57.0.
IDC VI 07 07 43 21.9–2.3 54.21N 86.68E 0 3.6,3.6
NNC VI 07 07 43 21.1–3.3 54.17N 86.92E 0 4.0b,3.7 **¶17205465**
IDC Error ellipse: s-maj=19.8km s-min=12.9km az=61.0.
NNC Event type se. Error ellipse: s-maj=24.0km s-min=22.6km az=33.0.
IDC VI 07 08 37 18.6–2.9 54.64N 86.66E 0 3.3,3.3
NNC VI 07 08 37 24.6–4.0 54.32N 86.44E 0 3.7b,3.4 **¶17205468**
IDC Error ellipse: s-maj=23.3km s-min=16.8km az=52.0.
NNC Event type se. Error ellipse: s-maj=29.7km s-min=27.7km az=17.0.
IDC VI 07 12 06 26.0–3.1 53.55N 87.78E 0 3.2,3.2
¶17205482

IDC Error ellipse: s-maj=28.7km s-min=16.8km az=55.0.
IDC VI 08 05 17 52.7–3.0 54.59N 86.38E 0 3.2,3.2
¶17205531

IDC Error ellipse: s-maj=24.1km s-min=15.4km az=43.0.
IDC VI 08 08 29 51.0–2.7 53.49N 87.70E 0 3.4,3.4
¶17205542

IDC Error ellipse: s-maj=23.5km s-min=14.5km az=61.0.
IDC VI 08 08 57 32.3–3.0 53.57N 87.77E 0 3.5,3.5
¶17205543

IDC Error ellipse: s-maj=25.1km s-min=15.0km az=58.0.
IDC VI 08 09 41 03.9–2.9 53.52N 87.80E 0 3.3,3.3
¶17205547

IDC Error ellipse: s-maj=23.7km s-min=14.8km az=62.0.
ISC VI 09 08 05 44.1–1.1 53.9N–.10 91.10E–.07 10 3.4s 16 4-79
ISCJB VI 09 08 05 41.2–.88 53.88N–.08 91.11E–.08 10 3.5s,3.3b **¶17205606**
IDC VI 09 08 05 42.1–1.4 53.97N 91.15E 0 3.5,3.4
NNC VI 09 08 05 47.2–4.5 53.65N 90.71E 0 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.0km az=170.3.
IDC Error ellipse: s-maj=20.0km s-min=14.9km az=149.0.
NNC Event type se. Error ellipse: s-maj=38.4km s-min=30.8km az=5.0.
IDC VI 10 07 26 17.6–2.5 53.73N 86.90E 0 2.9,2.9
¶17205691

IDC Error ellipse: s-maj=22.3km s-min=15.3km az=64.0.
IDC VI 10 07 31 28.7–2.7 53.50N 87.77E 0 3.3,3.3
¶17205692

IDC Error ellipse: s-maj=22.9km s-min=14.1km az=61.0.
IDC VI 10 07 37 08.5–3.3 53.64N 88.00E 0 2.9,2.9
¶17205693

IDC Error ellipse: s-maj=27.1km s-min=16.2km az=59.0.

IDC VI 10 09 47 46.2–3.6 53.79N 88.25E 0 3.1,3.1
¶17205698

IDC Error ellipse: s-maj=36.4km s-min=20.3km az=49.0.
IDC VI 10 11 06 03.0–3.5 53.59N 87.79E 0 3.3,3.3
¶17205702

IDC Error ellipse: s-maj=34.3km s-min=17.1km az=52.0.
IDC VI 11 05 22 07.1–2.8 54.15N 86.59E 0 3.2,3.2
¶17205755

IDC Error ellipse: s-maj=23.0km s-min=14.6km az=54.0.
ISC VI 11 05 33 38.8–3.7 53.6N–.10 87.8E–.20 35 13 2-8
IDC VI 11 05 33 34.9–2.5 53.52N 87.80E 0 3.6,3.6 **¶17205756**
NNC VI 11 05 33 39.6–3.0 53.26N 87.41E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=14.6km az=62.0.
NNC Event type se. Error ellipse: s-maj=21.5km s-min=17.5km az=36.0.
IDC VI 11 08 31 39.6–3.2 54.17N 87.34E 0 3.0,3.0
¶17205766

IDC Error ellipse: s-maj=29.7km s-min=19.8km az=34.0.
IDC VI 14 07 47 44.9–2.6 53.78N 86.95E 0 2.9,2.9
¶17206096

IDC Error ellipse: s-maj=23.8km s-min=14.7km az=67.0.
IDC VI 14 08 20 50.7–3.4 53.58N 88.05E 0 2.8,2.8
¶17206099

IDC Error ellipse: s-maj=29.8km s-min=18.0km az=54.0.
IDC VI 14 09 56 44.0–2.7 54.21N 87.28E 0 3.3,3.3
NNC VI 14 09 55 25.0–6.9 56.50N 91.13E 0 3.9b,3.3 **¶17206106**
IDC Error ellipse: s-maj=22.5km s-min=16.3km az=58.0.
NNC Event type se. Error ellipse: s-maj=42.7km s-min=30.8km az=42.0.
IDC VI 14 12 23 31.3–2.5 54.32N 86.12E 0 3.1,3.1
¶17206112

IDC Error ellipse: s-maj=18.5km s-min=12.5km az=50.0.
IDC VI 15 07 12 21.6–2.7 54.09N 86.48E 0 2.8,2.8
¶17206168

IDC Error ellipse: s-maj=21.4km s-min=13.8km az=56.0.
IDC VI 15 08 19 38.8–3.4 53.58N 87.25E 0 3.0,3.0
¶17206172

IDC Error ellipse: s-maj=34.2km s-min=17.8km az=59.0.
IDC VI 15 10 16 36.9–3.1 54.15N 87.26E 0 3.1,3.1
¶17206177

IDC Error ellipse: s-maj=27.0km s-min=18.9km az=59.0.
ISC VI 15 12 40 37.1–5.9 54.5N–.40 86.4E–.20 35 8 1-11
IDC VI 15 12 40 37.1–2.4 54.13N 86.42E 0 3.6,3.6 **¶17206183**
NNC VI 15 12 40 40.1–3.4 53.96N 86.26E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=12.6km az=53.0.
NNC Event type se. Error ellipse: s-maj=42.0km s-min=23.4km az=162.0.
IDC VI 16 05 15 49.2–2.8 54.54N 86.19E 0 3.2,3.2
NNC VI 16 05 15 52.2–3.8 54.36N 86.10E 0 3.8b,3.4 **¶17206268**
IDC Error ellipse: s-maj=21.3km s-min=13.3km az=49.0.
NNC Event type se. Error ellipse: s-maj=31.9km s-min=25.3km az=164.0.
IDC VI 16 05 28 50.3–3.0 54.42N 86.98E 0 3.0,3.0
NNC VI 16 05 28 50.2–3.7 53.98N 87.57E 0 3.8b,3.5 **¶17206271**
IDC Error ellipse: s-maj=26.8km s-min=19.4km az=52.0.
NNC Event type se. Error ellipse: s-maj=28.7km s-min=23.9km az=10.0.
IDC VI 16 07 47 24.2–2.7 53.81N 86.99E 0 2.9,2.9
¶17206286

IDC Error ellipse: s-maj=24.6km s-min=15.5km az=65.0.
IDC VI 16 08 15 39.8–1.7 54.69N 83.73E 0 3.2,3.2
¶17206290

IDC Error ellipse: s-maj=16.5km s-min=10.7km az=15.0.
ISC VI 16 08 41 29.6–3.8 53.7N–.10 87.8E–.20 35 12 2-10
IDC VI 16 08 41 24.3–2.8 53.62N 87.84E 0 3.4,3.4 **¶17206293**
NNC VI 16 08 41 29.6–2.4 53.51N 87.34E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=23.6km s-min=14.7km az=56.0.
NNC Event type se. Error ellipse: s-maj=18.6km s-min=15.1km az=14.0.
ISC VI 16 09 09 47.1–4.1 53.9N–.10 88.2E–.20 35 11 2-8
IDC VI 16 09 09 43.4–3.0 53.86N 88.18E 0 3.3,3.3 **¶17206298**
NNC VI 16 09 09 43.5–5.7 53.73N 88.10E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=16.9km az=50.0.
NNC Event type se. Error ellipse: s-maj=45.5km s-min=32.8km az=17.0.
IDC VI 16 10 09 47.7–2.9 54.37N 86.95E 0 3.4,3.4
NNC VI 16 10 09 50.0–2.9 54.19N 86.90E 0 3.9b,3.6 **¶17206306**
IDC Error ellipse: s-maj=25.5km s-min=17.8km az=56.0.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=19.3km az=172.0.
ISC VI 17 09 40 23.7–4.1 53.6N–.10 87.7E–.20 10 10 2-8
IDC VI 17 09 40 21.1–2.8 53.55N 87.78E 0 3.4,3.4 **¶17206377**
NNC VI 17 09 40 24.6–3.4 53.40N 87.47E 1–15 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=15.0km az=63.0.
NNC Event type se. Error ellipse: s-maj=24.3km s-min=21.2km az=36.0.
IDC VI 17 10 14 48.1–.19 53.55N 87.80E 0 2.9L
¶17206380

IDC Error ellipse: s-maj=3.4km s-min=0.1km az=14.0.
ISC VI 17 12 59 49.2–5.6 54.1N–.20 85.5E–.30 10 10 0-9
IDC VI 17 12 59 41.5–2.3 54.25N 86.18E 0 3.3,3.3 **¶17206389**
NNC VI 17 12 59 44.9–3.1 54.08N 86.13E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=12.2km az=46.0.
NNC Event type se. Error ellipse: s-maj=29.1km s-min=22.6km az=83.0.
IDC VI 18 06 39 31.2–2.4 54.10N 86.38E 0 3.6,3.6
NNC VI 18 06 39 32.8–2.4 53.98N 86.49E 0 3.8b,3.5 **¶17206445**
IDC Error ellipse: s-maj=19.9km s-min=12.4km az=51.0.
NNC Event type se. Error ellipse: s-maj=23.1km s-min=17.8km az=88.0.
IDC VI 18 08 20 14.2–2.9 54.30N 86.87E 0 2.9,2.9
NNC VI 18 08 20 16.6–2.8 54.19N 86.71E 0 3.6b,3.2 **¶17206447**
IDC Error ellipse: s-maj=23.3km s-min=15.6km az=60.0.
NNC Event type se. Error ellipse: s-maj=22.9km s-min=21.1km az=167.0.
ISC VI 19 11 49 07.0–.76 53.44N–.07 87.19E–.07 35 3.8b 28 1-63
IDC VI 19 11 49 02.2–.83 53.43N 87.41E 0 3.9,3.9 **¶17206523**
ISCJB VI 19 11 49 04.9–.59 53.38N–.04 87.16E–.09 33 3.8b,3.7s
NNC VI 19 11 49 09.5–2.5 53.31N 86.66E 22–14 4.4,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=11.7km s-min=9.0km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.9km az=25.8.
NNC Event type se. Error ellipse: s-maj=18.1km s-min=8.4km az=65.0.
IDC VI 20 07 54 34.8–3.5 53.72N 88.41E 0 3.2,3.2
¶17206582

IDC Error ellipse: s-maj=35.6km s-min=20.2km az=83.0.
ISC VI 20 09 43 40.7–3.5 53.6N–.10 87.5E–.20 35 22 2-13
IDC VI 20 09 43 35.3–2.5 53.52N 87.75E 0 3.8,3.8 **¶17206587**
NNC VI 20 09 43 38.5–2.5 53.58N 87.11E 0 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=14.6km az=71.0.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=13.1km az=61.0.
IDC VI 20 13 19 12.6–3.0 54.29N 87.41E 0 3.1,3.1
¶17206600

IDC Error ellipse: s-maj=25.9km s-min=17.3km az=52.0.
ISC VI 21 03 42 25.9–4.3 54.7N–.20 87.0E–.20 35 12 1-10
NNC VI 21 03 42 26.6–3.7 54.36N 86.76E 0 3.2b,2.9 **¶17206649**
IDC VI 21 03 42 27.2–2.5 54.50N 86.51E 0 3.0,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.5km s-min=25.1km az=163.0.
IDC Error ellipse: s-maj=20.9km s-min=13.4km az=61.0.
ISC VI 21 05 09 24.6–4.3 54.1N–.20 86.2E–.20 10 9 1-8
IDC VI 21 05 09 20.3–2.8 54.10N 86.67E 0 3.1,3.1 **¶17206654**
NNC VI 21 05 09 29.3–6.5 53.91N 85.87E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=23.0km s-min=13.6km az=59.0.
NNC Event type se. Error ellipse: s-maj=52.1km s-min=41.9km az=178.0.

ISC VI 21 08 23 45.3–3.9 53.7N–.10 87.8E–.20 35 12 2-10
IDC VI 21 08 23 40.6–2.8 53.60N 87.98E 0 3.2,3.2 ¶17206666
NNC VI 21 08 23 46.3–1.9 53.47N 87.40E 0 3.4b,3.1
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=15.5km az=62.0.
NNC Event type se. Error ellipse: s-maj=14.6km s-min=12.1km az=12.0.
ISC VI 21 10 16 30.5–1.7 54.0N–.10 90.7E–.10 10 12 3-54
ISCJB VI 21 10 16 27.9–1.3 53.94N–.09 90.5E–.20 10 3.2b ¶17206669
IDC VI 21 10 16 28.9–1.6 53.94N 90.85E 0 3.5,3.3
NNC VI 21 10 16 34.1–10 53.88N 90.12E 0 3.9b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=10.0km az=44.4.
IDC Error ellipse: s-maj=22.9km s-min=14.7km az=142.0.
NNC Event type se. Error ellipse: s-maj=87.1km s-min=66.2km az=20.0.
IDC VI 21 11 25 30.6–2.7 54.19N 87.23E 0 3.4,3.4
¶17206674
IDC Error ellipse: s-maj=22.6km s-min=16.2km az=56.0.
IDC VI 21 12 16 18.0–310 55.24N 80.94E 0
¶17206676
IDC Error ellipse: s-maj=121.6km s-min=58.0km az=119.0.
IDC VI 21 12 22 38.0–2.6 54.27N 86.02E 0 3.1,3.1
¶17206678
IDC Error ellipse: s-maj=18.8km s-min=12.5km az=50.0.
IDC VI 22 08 19 26.7–2.9 55.46N 86.17E 0 3.2,3.2
¶17206739
IDC Error ellipse: s-maj=28.1km s-min=17.9km az=61.0.
IDC VI 23 12 29 05.0–2.1 54.26N 86.10E 0 3.5,3.5
¶17206816
IDC Error ellipse: s-maj=16.7km s-min=11.1km az=56.0.
IDC VI 24 04 27 29.6–3.2 53.63N 87.90E 0 2.9,2.9
¶17206842
IDC Error ellipse: s-maj=27.7km s-min=17.9km az=45.0.
IDC VI 24 06 52 52.1–2.8 54.38N 86.81E 0 3.1,3.1
¶17206848
IDC Error ellipse: s-maj=22.5km s-min=15.4km az=57.0.
IDC VI 24 07 13 46.8–3.2 54.34N 87.06E 0 2.7,2.7
¶17206853
IDC Error ellipse: s-maj=29.9km s-min=18.5km az=50.0.
IDC VI 24 07 18 42.3–2.5 53.72N 86.81E 0 3.0,3.0
¶17206854
IDC Error ellipse: s-maj=22.8km s-min=12.6km az=69.0.
IDC VI 24 07 41 49.3–3.7 53.94N 89.87E 0 3.2,3.2
¶17206858
IDC Error ellipse: s-maj=34.7km s-min=23.1km az=61.0.
IDC VI 24 08 23 19.2–3.0 53.74N 88.10E 0 3.1,3.1
¶17206859
IDC Error ellipse: s-maj=24.7km s-min=16.5km az=57.0.
IDC VI 24 09 31 44.8–4.0 53.59N 87.79E 0 2.9,2.9
¶17206862
IDC Error ellipse: s-maj=39.2km s-min=18.4km az=49.0.
IDC VI 24 11 02 23.1–2.8 53.77N 88.12E 0 3.4,3.4
¶17206865
IDC Error ellipse: s-maj=23.7km s-min=15.9km az=55.0.
IDC VI 24 13 21 11.3–2.5 54.27N 86.18E 0 3.2,3.2
¶17206870
IDC Error ellipse: s-maj=19.1km s-min=11.9km az=54.0.
IDC VI 24 13 31 01.4–1.6 53.86N 85.48E 0 2.8,2.8
¶17206872
IDC Error ellipse: s-maj=10.8km s-min=5.6km az=92.0.
IDC VI 25 03 13 51.6–295 54.73N 82.47E 0
¶17206898
IDC Error ellipse: s-maj=104.9km s-min=35.4km az=119.0.
IDC VI 25 06 44 54.4–2.4 54.13N 86.48E 0 3.5,3.5
NNC VI 25 06 44 58.9–10 53.61N 86.62E 0 4.0b,3.7 ¶17206908
IDC Error ellipse: s-maj=18.6km s-min=11.8km az=58.0.
NNC Event type se. Error ellipse: s-maj=84.6km s-min=62.7km az=13.0.
IDC VI 25 09 31 02.6–3.0 54.26N 86.74E 0 2.9,2.9
¶17206916
IDC Error ellipse: s-maj=24.3km s-min=17.2km az=46.0.
IDC VI 26 06 28 59.5–3.4 54.61N 87.30E 0 2.8,2.8
¶17206964
IDC Error ellipse: s-maj=29.9km s-min=21.0km az=28.0.
IDC VI 27 03 48 39.3–291 54.84N 82.12E 0
¶17207042
IDC Error ellipse: s-maj=104.7km s-min=40.3km az=119.0.
IDC VI 28 07 46 07.7–3.3 54.55N 86.26E 0 2.8,2.8
¶17207127
IDC Error ellipse: s-maj=23.8km s-min=14.5km az=49.0.
ISC VI 28 12 36 44.0–6.8 54.3N–.20 86.1E–.40 35 8 1-9
NNC VI 28 12 36 40.4–3.8 54.12N 86.44E 0 3.9b,3.5 ¶17207140
IDC VI 28 12 36 40.3–2.1 54.24N 86.10E 0 3.5,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.5km s-min=28.0km az=86.0.
IDC Error ellipse: s-maj=17.6km s-min=10.2km az=61.0.
IDC VI 29 06 15 48.0–2.4 54.10N 86.38E 0 3.4,3.4
NNC VI 29 06 15 47.4–3.5 53.95N 86.71E 0 3.5b,3.2 ¶17207171
IDC Error ellipse: s-maj=18.2km s-min=11.7km az=57.0.
NNC Event type se. Error ellipse: s-maj=26.7km s-min=24.9km az=55.0.
IDC VI 29 07 47 26.5–2.5 53.72N 86.66E 0 2.8,2.8
¶17207177
IDC Error ellipse: s-maj=22.5km s-min=13.2km az=64.0.
IDC VI 29 08 13 33.4–3.2 53.39N 87.16E 0 2.8,2.8
¶17207178
IDC Error ellipse: s-maj=32.2km s-min=16.9km az=64.0.
IDC VI 29 08 13 45.9–3.4 53.42N 90.61E 0 3.1,3.1
¶17207179
IDC Error ellipse: s-maj=28.0km s-min=23.0km az=62.0.
ISC VI 29 09 27 26.5–4.0 53.7N–.10 87.6E–.20 35 12 2-10
IDC VI 29 09 27 23.3–2.8 53.54N 87.54E 0 3.6,3.6 ¶17207182
NNC VI 29 09 27 23.9–3.4 53.47N 87.52E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=25.8km s-min=13.8km az=61.0.
NNC Event type se. Error ellipse: s-maj=25.7km s-min=21.1km az=43.0.
IDC VI 30 05 10 40.4–2.4 54.17N 86.27E 0 3.1,3.1
¶17207231
IDC Error ellipse: s-maj=18.7km s-min=11.9km az=57.0.
IDC VI 30 14 29 11.3–2.5 54.26N 86.11E 0 3.3,3.3
¶17207259
IDC Error ellipse: s-maj=19.2km s-min=11.8km az=53.0.

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ISC I 07 20 57 01.7–.99 51.81N–.03 105.52E–.02 15–8 58 0-9
BYKL I 07 20 57 02.2–.20 51.87N 105.45E 24–3 ¶15930113
MOS I 07 20 57 02.1–1.4 51.87N 105.46E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=22.1km s-min=15.9km az=155.8.
ISC I 13 09 36 05.5–1.2 55.56N–.03 110.41E–.02 2–9 82 1-46
MOS I 13 09 36 03.8–1.0 55.52N 110.45E 6 4.5b ¶15963169
BYKL I 13 09 36 04.5–.21 55.50N 110.44E 4.5b
IDC I 13 09 36 07.0–2.0 55.58N 110.38E 0 3.5,3.4
ISC Event type se.
MOS Error ellipse: s-maj=12.1km s-min=7.1km az=65.7.
BYKL Event type se.
IDC Error ellipse: s-maj=48.3km s-min=26.4km az=148.0.
ISC I 22 00 49 39.3–1.1 54.89N–.02 109.46E–.03 2–9 69 1-6
MOS I 22 00 49 39.9–1.4 54.93N 109.47E 7 4.2b ¶16009475
BYKL I 22 00 49 40.3–.21 54.92N 109.49E 4.2b
ISC Event type se.
MOS Error ellipse: s-maj=21.2km s-min=9.7km az=63.4.
BYKL Event type se.

ISC I 22 09 22 58.0–.98 52.80N–.02 106.78E–.02 12–9 60 0-8
MOS I 22 09 22 57.1–1.9 52.75N 106.97E 10 4.3b ¶16009474
BYKL I 22 09 22 58.1–.28 52.82N 106.73E 14–5 4.3b
ISC Event type se.
MOS Error ellipse: s-maj=19.0km s-min=12.2km az=53.3.
BYKL Event type se. FELT I=II MSK at Yelantsy,Tyrgan.
IDC I 25 04 21 45.8–368 51.47N 109.39E 0
¶17190940
IDC Error ellipse: s-maj=149.8km s-min=78.7km az=24.0.
IDC I 25 04 43 33.2–387 52.04N 109.07E 0
¶17190941
IDC Error ellipse: s-maj=161.3km s-min=94.8km az=14.0.
ISC I 25 09 47 43.2–.70 55.44N–.02 110.58E–.02 10 65 1-8
MOS I 25 09 47 42.1–1.4 55.49N 110.47E 5 4.3b ¶16009478
BYKL I 25 09 47 43.1–.31 55.52N 110.42E 4.3b
ISC Event type se.
MOS Error ellipse: s-maj=16.4km s-min=10.3km az=78.5.
BYKL Event type se.
ISC I 25 11 48 44.9–.42 53.47N–.02 109.07E–.02 7–3 3.6b 115 1-80
BJI I 25 11 48 42.8 53.91N 108.85E 18 3.9s,3.6 ¶16009477
MOS I 25 11 48 44.5–1.0 53.50N 109.06E 10 4.3b,3.6
IDC I 25 11 48 44.1–.83 53.41N 108.94E 0 3.7,3.6
BYKL I 25 11 48 46.8–.24 53.51N 108.99E 3.7,3.6
ISC Event type se.
MOS Event type fe. Error ellipse: s-maj=9.0km s-min=6.2km az=61.6. Felt (III-IV) at Ust'-Barguzin, (II) at Suvo. Moment Tensor Solution.
IDC Error ellipse: s-maj=22.6km s-min=19.6km az=159.0.
BYKL Event type se. FELT I=IV MSK at Ust-Barguzin and II at Suvo.
ISC II 03 14 32 21.4–1.1 53.28N–.02 108.03E–.02 1–10 68 0-7
MOS II 03 14 32 22.8–1.7 53.30N 107.90E 10 4.3b ¶16026537
BYKL II 03 14 32 22.8–.28 53.34N 107.90E 10–6 4.3b
ISC Event type se.
MOS Error ellipse: s-maj=22.1km s-min=17.3km az=78.7.
BYKL Event type se.
ISC II 06 18 58 07.7–.85 52.47N–.02 106.95E–.02 18–6 73 0-11
OBM II 06 18 58 06.5–.08 52.52N 107.01E 2 3.5L ¶16026539
MOS II 06 18 58 06.9–2.2 52.51N 106.93E 10 4.4b
BYKL II 06 18 58 07.4–.19 52.53N 106.89E 23–3 4.4b
ISC Event type se.
OBM Error ellipse: s-maj=1.5km s-min=0.7km az=20.0.
MOS Error ellipse: s-maj=14.3km s-min=9.2km az=60.4.
BYKL Event type se.
ISC II 09 15 21 05.5–.83 50.51N–.04 112.09E–.03 10 74 1-9
OBM II 09 15 21 05.3–.12 50.45N 112.14E 2 3.7L ¶16026540
MOS II 09 15 21 05.1–1.7 50.52N 112.13E 10 4.4b
BYKL II 09 15 21 05.6–.31 50.53N 112.14E 4.4b
ISC Event type se.
OBM Error ellipse: s-maj=2.2km s-min=1.1km az=28.0.
MOS Error ellipse: s-maj=19.3km s-min=8.6km az=95.5.
BYKL Event type se.
ISC II 10 17 46 23.3–1.2 56.45N–.04 112.57E–.02 4–10 49 1-8
BYKL II 10 17 46 23.8–.33 56.36N 112.58E 12–8 ¶16026541
MOS II 10 17 46 25.0–2.2 56.36N 112.59E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=26.3km s-min=14.6km az=52.2.
ISC II 17 10 51 04.2–.71 54.13N–.02 111.45E–.02 10 67 1-7
MOS II 17 10 51 04.5–1.8 54.06N 111.41E 20 4.2b ¶16166855
BYKL II 17 10 51 04.0–.32 54.12N 111.42E 4.2b
ISC Event type se.
MOS Error ellipse: s-maj=28.9km s-min=12.4km az=85.2.
BYKL Event type se.
ISC II 24 20 19 31.4–1.2 55.86N–.03 110.70E–.02 1–9 3.8b 107 0-80
MOS II 24 20 19 31.8–1.0 55.88N 110.72E 11 4.2b ¶16298645
IDC II 24 20 19 31.8–1.0 55.93N 110.65E 0 3.8,3.7
BJI II 24 20 19 32.9 55.75N 110.91E 10 3.8b,3.7
BYKL II 24 20 19 33.4–.25 55.84N 110.68E 14–3 3.8b,3.7
ISC Event type se.
MOS Error ellipse: s-maj=10.4km s-min=6.0km az=70.0.
IDC Error ellipse: s-maj=23.0km s-min=10.9km az=131.0.
BYKL Event type se.
ISC II 24 20 32 39.4–.97 55.83N–.03 110.73E–.02 10–7 93 0-23
MOS II 24 20 32 37.8–.82 55.83N 110.74E 8 4.6b ¶16298646
BYKL II 24 20 32 38.9–.30 55.82N 110.68E 8–4 4.6b
IDC II 24 20 32 42.8–3.8 55.81N 110.00E 0 3.3,3.3
ISC Event type se.
MOS Error ellipse: s-maj=11.7km s-min=6.9km az=64.5.
BYKL Event type se.
IDC Error ellipse: s-maj=49.5km s-min=22.4km az=103.0.
ISC II 27 08 00 17.3–1.1 55.24N–.02 110.80E–.02 8–9 69 0-7
MOS II 27 08 00 17.1–1.0 55.20N 110.84E 13 4.3b ¶16298647
BYKL II 27 08 00 18.0–.20 55.22N 110.81E 15–4 4.3b
ISC Event type se.
MOS Error ellipse: s-maj=16.8km s-min=10.1km az=74.6.
BYKL Event type se.
ISC II 27 09 37 22.8–.79 51.08N–.03 105.95E–.02 10 56 1-9
MOS II 27 09 37 23.3–.53 51.07N 105.94E 9 4.2b ¶16298648
BYKL II 27 09 37 23.4–.38 51.04N 105.86E 4.2b
ISC Event type se.
MOS Error ellipse: s-maj=39.7km s-min=22.3km az=109.2.
BYKL Event type se.
ISC III 04 15 56 05.8–1.1 53.98N–.02 109.35E–.02 13–8 4.7s,4.0b 145 0-98
BJI III 04 15 56 01.9 54.36N 109.36E 9 4.5b,4.0b ¶16341493
IDC III 04 15 56 04.2–.89 53.99N 109.36E 0 4.5,4.4s
NEIC III 04 15 56 05.2–1.2 54.00N 109.34E 8–10 4.0b,4.4s
MOS III 04 15 56 05.5–2.3 54.01N 109.13E 10 4.1b,4.4s
BYKL III 04 15 56 06.9–.24 53.94N 109.20E 4.1b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=15.0km az=121.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=8.4km az=72.0.
MOS Error ellipse: s-maj=10.4km s-min=6.3km az=68.0.
BYKL Event type se.
ISC III 06 16 40 11.4–.59 53.27N–.02 108.59E–.02 10 105 1-80
BYKL III 06 16 40 10.9–.22 53.31N 108.50E ¶16341494
MOS III 06 16 40 10.4–1.1 53.31N 108.57E 12 4.4b
IDC III 06 16 40 13.1–1.8 53.20N 108.35E 0 3.3,3.2
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=11.9km s-min=7.1km az=56.5.
IDC Error ellipse: s-maj=21.6km s-min=17.7km az=153.0.
BYKL III 08 22 41 17.6–.29 52.13N 106.39E 21–4
MOS III 08 22 41 18.5–1.4 52.12N 106.33E 10 4.2b ¶16341495
BYKL Event type se.
MOS Error ellipse: s-maj=32.4km s-min=27.4km az=20.9.
IDC III 11 09 39 33.1–7.7 51.19N 108.43E 0 2.9,2.9
¶17193740
IDC Error ellipse: s-maj=55.2km s-min=53.3km az=114.0.
ISC III 15 00 12 11.6–.87 52.50N–.02 106.86E–.02 13–7 77 0-11
MOS III 15 00 12 10.5–.62 52.51N 106.94E 12 4.4b ¶16390734
OBM III 15 00 12 11.0–.10 52.52N 106.71E 2 3.7L
BYKL III 15 00 12 11.7–.22 52.52N 106.80E 17–4 3.7L
ISC Event type se.
MOS Error ellipse: s-maj=14.7km s-min=11.5km az=61.1.
OBM Error ellipse: s-maj=1.8km s-min=1.0km az=25.0.
BYKL Event type se.
ISC III 18 10 26 04.7–.97 52.79N–.02 106.75E–.02 14–7 3.9b 112 0-76
IDC III 18 10 26 01.9–1.4 52.73N 107.11E 0 3.9b,3.8 ¶16390739
MOS III 18 10 26 02.5–1.3 52.83N 106.82E 10 4.1b,3.8
OBM III 18 10 26 04.0–.08 52.81N 106.97E 2 3.5L,3.8
BYKL III 18 10 26 05.0–.19 52.81N 106.71E 17–3 3.5L,3.8
ISC Event type se.

IDC Error ellipse: s-maj=22.3km s-min=18.7km az=77.0.
MOS Event type fe. Error ellipse: s-maj=11.5km s-min=6.9km az=69.4. Felt (III) at Tyrgan, Elantsy, Popovo. Moment Tensor Solution.
OBM Error ellipse: s-maj=1.5km s-min=1.2km az=20.0.
BYKL Event type se. FELT I=VI MSK at Tirgan,Yelantsy,Petrovo,Popovo,Anga,Narin-Kunta).
ISC IV 10 10 27 28.3–.64 53.53N–.02 108.63E–.02 10 3.4b 60 1-76
IDC IV 10 10 27 29.3–1.2 53.27N 110.11E 0 3.6,3.5 **¶16446259**
BYKL IV 10 10 27 30.3–.22 53.58N 108.45E 3.6,3.5
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=16.4km az=129.0.
BYKL Event type se.
ISC IV 13 02 48 12.3–1.1 55.30N–.02 110.29E–.02 7–8 3.7b 107 1-90
MOS IV 13 02 48 11.4–.93 55.35N 110.24E 10 4.0b **¶16462826**
IDC IV 13 02 48 11.7–.89 55.40N 110.28E 0 3.7b,3.7
BYKL IV 13 02 48 12.2–.23 55.29N 110.21E 3.7b,3.7
ISC Event type se.
MOS Error ellipse: s-maj=11.8km s-min=6.8km az=62.3.
IDC Error ellipse: s-maj=17.8km s-min=10.7km az=132.0.
BYKL Event type se.
ISC IV 13 03 53 38.9–1.2 55.30N–.03 110.29E–.02 2–9 3.6b 97 1-90
BYKL IV 13 03 53 38.7–.20 55.28N 110.22E 3.6b **¶16462827**
MOS IV 13 03 53 38.5–.86 55.30N 110.31E 9 4.0b
IDC IV 13 03 53 39.7–1.4 55.34N 110.15E 0 3.7,3.7b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=14.4km s-min=7.3km az=64.6.
IDC Error ellipse: s-maj=28.4km s-min=12.0km az=122.0.
ISC IV 13 23 45 39.5–1.1 55.31N–.03 110.31E–.02 8–9 84 1-23
MOS IV 13 23 45 38.9–1.3 55.31N 110.25E 15 4.3b **¶16462828**
BYKL IV 13 23 45 39.1–.21 55.29N 110.21E 4.3b
IDC IV 13 23 45 40.0–3.8 55.33N 110.13E 0 3.4,3.4b
ISC Event type se.
MOS Error ellipse: s-maj=15.2km s-min=9.5km az=76.9.
BYKL Event type se.
IDC Error ellipse: s-maj=51.5km s-min=19.7km az=104.0.
ISC IV 16 22 22 46.6–1.2 53.04N–.02 108.09E–.02 0–9 101 1-49
MOS IV 16 22 22 46.3–1.3 53.05N 108.25E 8 4.4b **¶16462838**
IDC IV 16 22 22 47.6–1.5 53.01N 108.06E 0 3.2,3.1
BYKL IV 16 22 22 47.3–.19 53.08N 108.10E 3.2,3.1
ISC Event type se.
MOS Error ellipse: s-maj=16.4km s-min=9.0km az=48.6.
IDC Error ellipse: s-maj=23.0km s-min=13.4km az=141.0.
BYKL Event type se.
ISC IV 27 13 08 59.5–1.2 53.62N–.03 109.05E–.02 10–10 61 1-6
MOS IV 27 13 08 59.1–1.3 53.41N 109.02E 10 4.2b **¶16502291**
BYKL IV 27 13 09 00.0–.24 53.51N 108.99E 10–10 4.2b
ISC Event type se.
MOS Error ellipse: s-maj=40.7km s-min=24.5km az=46.7.
BYKL Event type se.
ISC IV 29 00 39 11.0–1.1 55.35N–.03 110.29E–.02 6–10 72 1-7
BYKL IV 29 00 39 10.7–.23 55.33N 110.19E **¶16502293**
MOS IV 29 00 39 10.4–.77 55.37N 110.23E 10 4.4b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=15.1km s-min=8.3km az=63.1.
MOS IV 29 09 56 35.3–1.1 55.34N 110.21E 9 4.2b
BYKL IV 29 09 56 36.0–.28 55.33N 110.19E 4.2b **¶16502294**
MOS Error ellipse: s-maj=16.0km s-min=9.9km az=66.2.
BYKL Event type se.
ISC V 08 17 54 12.7–.69 53.51N–.02 112.12E–.02 10 89 1-7
BYKL V 08 17 54 12.3–.21 53.49N 112.18E **¶16532958**
MOS V 08 17 54 12.2–1.6 53.49N 112.20E 3 4.3b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=14.8km s-min=8.6km az=82.9.
ISC V 14 01 01 04.5–.70 53.12N–.02 108.15E–.02 10 63 1-7
BYKL V 14 01 01 05.1–.26 53.09N 108.10E **¶16539200**
MOS V 14 01 01 05.7–2.1 53.15N 108.04E 6 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=51.2km s-min=16.4km az=135.9.
ISC V 15 03 36 46.2–.70 55.21N–.03 109.19E–.03 10 77 1-6
BYKL V 15 03 36 47.1–.29 55.25N 109.18E **¶16539201**
MOS V 15 03 36 48.0–1.9 55.24N 109.21E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=24.1km s-min=12.7km az=69.2.
ISC V 19 08 13 49.5–.73 55.98N–.03 110.89E–.02 10 79 0-8
MOS V 19 08 13 49.4–.93 55.99N 110.96E 10 4.4b **¶16539243**
BYKL V 19 08 13 50.6–.32 55.96N 111.01E 11–5 4.4b
ISC Event type se.
MOS Error ellipse: s-maj=15.5km s-min=11.6km az=67.5.
BYKL Event type se. FELT I=II MSK at Kumora).
ISC V 19 21 17 35.0–.72 55.52N–.03 110.21E–.02 10 65 0-7
BYKL V 19 21 17 36.4–.27 55.52N 110.43E **¶16539244**
MOS V 19 21 17 36.8–.99 55.53N 110.43E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=59.9km s-min=28.1km az=72.2.
IDC V 20 12 18 55.3–548 51.36N 111.57E 0
¶17204040

IDC Error ellipse: s-maj=203.3km s-min=104.0km az=46.0.
ISC V 27 13 49 11.2–1.0 54.54N–.02 110.83E–.02 8–7 3.4b 109 0-90
MOS V 27 13 49 10.0–1.6 54.53N 110.86E 10 4.5b **¶16591864**
IDC V 27 13 49 10.5–1.1 54.75N 110.25E 0 3.7,3.6
BYKL V 27 13 49 12.1–.21 54.57N 110.79E 11–4 3.7,3.6
ISC Event type se.
MOS Error ellipse: s-maj=11.0km s-min=6.2km az=69.0.
IDC Error ellipse: s-maj=29.4km s-min=18.0km az=130.0.
BYKL Event type se.
IDC VI 01 10 47 10.7–535 50.51N 112.68E 0
¶17204881

IDC Error ellipse: s-maj=199.0km s-min=102.8km az=60.0.
ISC VI 02 12 30 47.3–1.1 51.96N–.03 105.30E–.02 4–10 69 0-9
BYKL VI 02 12 30 47.5–.29 51.86N 105.28E 26–4 **¶16620909**
MOS VI 02 12 30 47.2–.93 51.94N 105.31E 8 4.4b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=18.6km s-min=11.6km az=151.8.
IDC VI 10 09 31 51.2–537 50.39N 112.61E 0
¶17205697

IDC Error ellipse: s-maj=202.8km s-min=100.1km az=61.0.
ISC VI 27 18 44 35.2–.61 55.27N–.02 110.27E–.02 10 79 1-47
MOS VI 27 18 44 34.2–1.1 55.31N 110.28E 11 4.3b **¶16731635**
BYKL VI 27 18 44 34.9–.26 55.30N 110.24E 4.3b
IDC VI 27 18 44 35.1–2.0 55.31N 110.28E 0 3.4,3.3
ISC Event type se.
MOS Error ellipse: s-maj=16.5km s-min=9.6km az=75.4.
BYKL Event type se.
IDC Error ellipse: s-maj=46.7km s-min=26.7km az=148.0.
ISC VI 27 18 45 07.3–1.1 55.37N–.02 110.30E–.02 8–8 3.8b 91 1-47
MOS VI 27 18 45 07.5–.54 55.36N 110.31E 12 4.1b **¶16731638**
IDC VI 27 18 45 08.4–1.5 55.44N 110.16E 0 4.0,3.9
BYKL VI 27 18 45 08.3–.25 55.29N 110.19E 4.0,3.9
ISC Event type se.
MOS Error ellipse: s-maj=14.4km s-min=8.2km az=80.8.
IDC Error ellipse: s-maj=27.8km s-min=15.7km az=121.0.
BYKL Event type se.
ISC VI 27 19 21 01.5–.70 55.33N–.03 110.11E–.02 10 70 1-7
BYKL VI 27 19 21 01.4–.30 55.29N 110.19E **¶16843858**
MOS VI 27 19 21 02.7–1.8 55.34N 110.08E 10 4.3b

ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=99.9km s-min=24.6km az=50.8.
ISC VI 28 14 22 25.6–1.1 52.68N–.02 107.05E–.02 1–10 80 0-8
MOS VI 28 14 22 25.3–1.4 52.65N 107.08E 4 4.3b **¶16843860**
BYKL VI 28 14 22 26.5–.14 52.73N 106.95E 14–3 4.3b
ISC Event type se.
MOS Error ellipse: s-maj=17.1km s-min=10.3km az=137.2.
BYKL Event type se.
ISC VI 28 20 54 09.1–1.1 55.44N–.02 110.51E–.02 1–8 3.8b 127 1-78
IDC VI 28 20 54 09.3–1.1 55.25N 110.49E 0 3.9,3.8 **¶16731730**
MOS VI 28 20 54 09.0–.92 55.45N 110.47E 8 3.9b,3.8
BYKL VI 28 20 54 10.1–.20 55.46N 110.45E 3.9b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=24.4km s-min=15.6km az=138.0.
MOS Error ellipse: s-maj=10.9km s-min=6.5km az=68.7.
BYKL Event type se.
ISC VI 29 00 41 20.8–1.1 55.45N–.02 110.21E–.02 2–8 129 1-53
IDC VI 29 00 41 20.8–1.2 55.45N 110.26E 0 3.6,3.6 **¶16731736**
MOS VI 29 00 41 20.4–1.1 55.51N 110.13E 11 4.4b,3.6
BYKL VI 29 00 41 22.0–.21 55.45N 110.19E 4.4b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=12.8km az=133.0.
MOS Error ellipse: s-maj=10.4km s-min=6.2km az=71.2.
BYKL Event type se.
IDC VI 29 10 35 50.7–549 50.77N 112.78E 0
¶17207187

IDC Error ellipse: s-maj=209.3km s-min=110.2km az=57.0.

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IDC I 24 06 45 34.1–390 51.91N 113.38E 0
¶17190868

IDC Error ellipse: s-maj=147.5km s-min=124.3km az=43.0.
IDC I 24 07 04 12.8–391 51.94N 113.35E 0
¶17190869

IDC Error ellipse: s-maj=148.1km s-min=128.4km az=40.0.
IDC I 24 09 33 51.2–390 51.82N 113.43E 0
¶17190881

IDC Error ellipse: s-maj=147.6km s-min=128.5km az=43.0.
IDC I 24 09 54 26.1–387 51.64N 113.67E 0
¶17190883

IDC Error ellipse: s-maj=146.3km s-min=117.9km az=51.0.
ISC I 24 22 26 32.0–.74 55.63N–.03 113.36E–.02 10 43 0-9
BYKL I 24 22 26 32.8–.37 55.67N 113.46E **¶16009476**
MOS I 24 22 26 33.4–.85 55.67N 113.44E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=35.5km s-min=23.4km az=91.7.
ISC II 06 13 31 58.2–.74 55.82N–.03 114.95E–.02 10 49 1-9
MOS II 06 13 32 00.2–1.2 55.85N 114.96E 10 4.2b **¶16026538**
BYKL II 06 13 32 00.1–.23 55.84N 114.96E 4.2b
ISC Event type se.
MOS Error ellipse: s-maj=38.4km s-min=31.4km az=54.0.
BYKL Event type se.
ISC II 19 21 44 34.7–1.1 56.18N–.03 114.11E–.02 12–7 3.8s,3.6b 93 0-89
IDC II 19 21 44 32.5–1.0 56.21N 114.19E 0 3.7,3.5 **¶16166856**
MOS II 19 21 44 33.3–1.3 56.14N 114.20E 15 4.1b,3.5
BYKL II 19 21 44 35.1–.20 56.22N 114.10E 20–3 4.1b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=16.0km az=145.0.
MOS Error ellipse: s-maj=9.6km s-min=6.4km az=75.2.
BYKL Event type se.
ISC II 20 09 06 49.5–.77 56.04N–.02 113.98E–.02 3–5 4.1b 114 0-146
MOS II 20 09 06 48.7–1.4 55.97N 114.18E 13 4.6b **¶16166857**
IDC II 20 09 06 49.0–.90 56.06N 114.04E 0 4.0,3.8
BYKL II 20 09 06 50.8–.20 56.06N 113.95E 10–4 4.0,3.8
NEIC II 20 09 06 50.4–.44 56.02N 114.04E 10 4.2b,3.8
ISC Event type se.
MOS Error ellipse: s-maj=9.5km s-min=6.7km az=72.6.
IDC Error ellipse: s-maj=21.1km s-min=14.6km az=135.0.
BYKL Event type se.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=8.0km az=74.0.
ISC IV 24 20 35 12.6–1.1 56.42N–.03 113.86E–.02 12–9 64 0-9
MOS IV 24 20 35 11.5–1.9 56.42N 113.80E 8 4.4b **¶16502288**
BYKL IV 24 20 35 11.8–.23 56.47N 113.83E 21–3 4.4b
ISC Event type se.
MOS Error ellipse: s-maj=20.9km s-min=10.7km az=75.9.
BYKL Event type se.
ISC V 09 20 28 00.9–.73 56.38N–.03 118.14E–.02 10 59 1-8
ISCJB V 09 20 27 59.3–.36 56.34N–.03 118.05E–.03 10 **¶16532959**
BYKL V 09 20 28 02.9–.22 56.39N 118.13E
MOS V 09 20 28 03.1–1.7 56.41N 118.11E 10 4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=2.4km az=173.2.
BYKL Event type se.
MOS Error ellipse: s-maj=27.9km s-min=20.6km az=89.1.
ISC V 15 11 18 55.3–.72 56.29N–.03 117.75E–.02 10 60 1-11
BYKL V 15 11 18 56.8–.29 56.37N 117.81E **¶16539202**
MOS V 15 11 18 56.7–2.1 56.37N 117.81E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=46.3km s-min=29.6km az=31.9.
IDC V 20 10 20 54.7–544 51.12N 114.82E 0
¶17204029

IDC Error ellipse: s-maj=204.8km s-min=133.1km az=62.0.
IDC V 21 11 16 23.0–547 51.09N 114.22E 0
¶17204130

IDC Error ellipse: s-maj=203.6km s-min=121.0km az=61.0.
BYKL VI 16 07 03 49.3–.42 56.36N 113.20E 18–5
MOS VI 16 07 03 49.8–2.1 56.18N 113.19E 10 4.2b **¶16692747**
BYKL Event type se.
MOS Error ellipse: s-maj=18.2km s-min=16.4km az=74.4.
IDC VI 27 09 05 16.1–999 51.38N 115.24E 0
¶17207060

IDC Error ellipse: s-maj=371.1km s-min=139.1km az=71.0.
IDC VI 27 09 43 11.2–999 51.21N 114.44E 0
¶17207061

IDC Error ellipse: s-maj=350.2km s-min=130.9km az=69.0.

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ISC I 10 20 56 46.4–1.2 46.63N–.05 79.12E–.04 10 37 1-4
NNC I 10 20 56 46.5–1.8 46.67N 79.02E 0 3.1b,2.7 **¶16416167**
SOME I 10 20 56 47.8 46.57N 79.22E 5 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.8km s-min=12.5km az=131.0.
ISC I 11 23 41 39.1–1.4 46.66N–.03 78.91E–.05 3–11 51 1-9
SOME I 11 23 41 38.9 46.78N 78.87E 0 **¶16425095**
NNC I 11 23 41 39.8–1.1 46.67N 78.90E 16–9 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.5km s-min=6.0km az=37.0.
ISC I 18 19 12 43.0–.51 48.59N–.04 84.84E–.05 10 3.7b 72 1-91
IDC I 18 19 12 41.2–.66 48.64N 85.12E 0 3.9,3.8 **¶15948987**
ISCJB I 18 19 12 41.2–.39 48.58N–.03 84.90E–.05 10 3.8b,3.6s
BJI I 18 19 12 42.1 48.53N 85.16E 9 3.9L,3.8b
MOS I 18 19 12 44.0–1.1 48.69N 84.93E 28 4.2b,3.8b
NNC I 18 19 12 45.6–1.8 48.61N 84.66E 3–7 4.3b,3.9
SOME I 18 19 12 50.1 48.77N 83.83E 30 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=10.3km s-min=9.5km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.7km az=5.9.
MOS Error ellipse: s-maj=10.4km s-min=7.8km az=94.3.

NNC Event type se. Error ellipse: s-maj=14.2km s-min=6.6km az=79.0.
ISC I 22 23 47 48.2–1.8 46.62N–.04 79.00E–.06 6–13 63 1-9
NNC I 22 23 47 46.1–.66 46.71N 79.07E 0 3.8b,3.4 **¶16451944**
SOME I 22 23 47 50.4 46.58N 78.88E 5 3.8b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.3km s-min=5.8km az=72.0.
ISC I 24 10 56 50.3–1.3 45.11N–.04 78.24E–.02 5–11 45 0-6
SOME I 24 10 56 50.7 45.10N 78.23E 5 **¶16453073**
NNC I 24 10 56 55.2–2.4 45.06N 78.59E 0 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.7km s-min=16.5km az=163.0.
ISC I 25 22 12 16.3–1.4 44.84N–.04 79.72E–.05 1–11 44 1-7
SOME I 25 22 12 17.3 44.85N 79.60E 10 **¶15977636**
NNC I 25 22 12 19.1–3.1 44.73N 79.59E 0 3.0b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.4km s-min=10.6km az=50.0.
ISC II 01 16 27 23.4–1.3 44.55N–.02 78.83E–.02 5–11 62 1-14
NNC II 01 16 27 22.5–.55 44.57N 78.86E 0 3.3b,3.0 **¶16487882**
ISCJB II 01 16 27 23.8–.61 44.58N–.02 78.86E–.03 8–4 3.3b,3.0
SOME II 01 16 27 24.2 44.57N 78.78E 15 3.3b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.7km s-min=4.0km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=3.2km az=28.5.
ISC II 07 19 04 17.5–1.2 45.99N–.06 79.43E–.05 10 25 1-3
SOME II 07 19 04 18.7 45.98N 79.30E 15 **¶16501903**
NNC II 07 19 04 20.0–1.2 45.83N 79.74E 0 2.7b,2.3
ISCJB II 07 19 04 20.8–.88 46.01N–.07 79.64E–.09 10 2.7b,2.3
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC II 19 11 50 37.2–1.2 44.24N–.03 77.58E–.02 2–11 41 1-7
NNC II 19 11 50 37.0–.48 44.26N 77.59E 0 3.1b,2.7 **¶16531931**
SOME II 19 11 50 37.4 44.27N 77.60E 5 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=170.0.
ISC II 22 20 43 09.6–.96 45.96N–.05 79.96E–.06 10 11 1-5
ISCJB II 22 20 43 09.3–.92 45.99N–.06 79.8E–.10 10 **¶16535988**
SOME II 22 20 43 09.4 45.93N 79.73E 0
NNC II 22 20 43 09.9–1.4 46.01N 79.95E 0 2.6b,2.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=5.1km az=34.3.
NNC Event type se. Error ellipse: s-maj=13.2km s-min=8.5km az=131.0.
ISC II 22 22 44 01.0–1.2 44.73N–.03 79.43E–.03 2–14 37 0-3
NNC II 22 22 44 00.9–1.2 44.72N 79.49E 0 2.5b,2.4 **¶16535990**
SOME II 22 22 44 01.6 44.73N 79.40E 5 2.5b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.4km s-min=6.4km az=105.0.
ISC II 23 10 15 01.0–1.2 44.72N–.03 79.18E–.03 2–11 65 1-14
NNC II 23 10 15 00.3–.52 44.75N 79.10E 0 3.5b,3.1 **¶16545001**
SOME II 23 10 15 01.3 44.73N 79.08E 10 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=86.0.
ISC III 02 22 54 58.9–1.7 45.07N–.05 77.57E–.04 0–13 31 1-4
SOME III 02 22 55 00.5 45.02N 77.55E 10 **¶16553028**
NNC III 02 22 55 00.0–3.1 45.10N 77.60E 0 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.8km s-min=17.1km az=121.0.
ISC III 03 19 49 42.2–1.9 48.44N–.05 84.9E–.10 10 26 1-10
SOME III 03 19 49 40.6 48.40N 85.10E 10 **¶16553071**
NNC III 03 19 49 41.2–4.3 48.61N 85.04E 0 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.7km s-min=20.7km az=72.0.
NNC III 13 19 33 16.1–2.8 49.24N 82.39E 0 3.7b,3.4
¶16591697
NNC Event type se. Error ellipse: s-maj=33.1km s-min=13.2km az=59.0.
SOME III 20 18 04 45.9 49.10N 83.57E 0
NNC III 20 18 04 50.1–6.8 49.07N 84.58E 0 3.0b,2.6 **¶16633185**
NNC Event type se. Error ellipse: s-maj=56.0km s-min=32.2km az=71.0.
ISC III 25 08 48 09.4–1.3 45.14N–.04 79.50E–.04 2–11 33 0-4
NNC III 25 08 48 07.8–2.6 45.21N 79.60E 0 2.7b,2.3 **¶16647869**
SOME III 25 08 48 09.4 45.20N 79.52E 10 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.3km s-min=16.6km az=119.0.
ISC III 28 02 41 28.2–1.1 44.76N–.02 78.81E–.03 7–10 45 0-10
SOME III 28 02 41 28.8 44.82N 78.90E 30 **¶16684613**
NNC III 28 02 41 28.0–.55 44.82N 78.81E 8–5 3.3b,2.9
ISCJB III 28 02 41 29.0–.87 44.85N–.02 78.85E–.04 14–6 3.3b,2.9
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC IV 09 18 02 49.7–1.5 44.21N–.03 78.57E–.03 3–12 41 1-6
ISCJB IV 09 18 02 50.6–.61 44.21N–.02 78.60E–.03 6–4 **¶16722522**
SOME IV 09 18 02 50.7 44.23N 78.57E 15
NNC IV 09 18 02 51.3–1.4 44.15N 78.58E 0 2.7b,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.5km az=32.3.
NNC Event type se. Error ellipse: s-maj=11.2km s-min=6.4km az=8.0.
ISC IV 09 19 39 00.5–1.3 44.23N–.03 78.61E–.03 5–11 45 1-6
ISCJB IV 09 19 39 01.6–.73 44.22N–.02 78.61E–.03 7–5 **¶16722524**
NNC IV 09 19 39 01.0–1.2 44.19N 78.61E 0 2.8b,2.7
SOME IV 09 19 39 01.5 44.22N 78.57E 10 2.8b,2.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.5km az=37.5.
NNC Event type se. Error ellipse: s-maj=9.4km s-min=6.2km az=14.0.
ISC IV 12 22 19 53.3–.64 49.94N–.03 77.13E–.03 4 50 1-19
BJI IV 12 22 19 48.8 50.42N 77.03E 8 4.8b,4.4b **¶16706666**
NNC IV 12 22 19 53.2–.58 50.09N 77.14E 5 4.0b,3.6
IDC IV 12 22 19 55.0–1.6 50.04N 77.24E 8–14 3.4,3.4
SOME IV 12 22 19 59.7 49.63N 77.00E 25 3.4,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.8km s-min=3.8km az=151.0.
IDC Error ellipse: s-maj=11.3km s-min=7.8km az=66.0.
ISC IV 13 21 46 47.5–1.2 46.01N–.05 79.77E–.05 10 26 1-3
NNC IV 13 21 46 50.5–2.0 45.86N 80.06E 0 2.7b,2.3 **¶16852705**
SOME IV 13 21 46 50.6 45.87N 79.73E 10 2.7b,2.3
ISCJB IV 13 21 46 52.7–.78 46.01N–.07 79.95E–.09 10 2.7b,2.3
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC IV 19 04 58 10.7–.96 46.01N–.03 80.63E–.05 10 38 1-5
NNC IV 19 04 58 13.3–1.2 45.77N 81.27E 0 3.8b,3.7 **¶16852948**
SOME IV 19 04 58 14.9 45.85N 80.53E 30 3.8b,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.5km s-min=6.9km az=120.0.
ISC IV 20 13 35 55.8–1.2 44.60N–.03 79.56E–.03 20–4 45 0-3
NNC IV 20 13 35 56.1–1.1 44.50N 79.52E 0 3.0b,2.9 **¶16872805**
SOME IV 20 13 35 56.3 44.57N 79.45E 20 3.0b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.1km s-min=5.6km az=105.0.
ISC IV 24 06 31 52.2–1.3 44.77N–.03 79.26E–.03 7–12 42 1-11
NNC IV 24 06 31 54.3–1.1 44.68N 79.25E 0 3.5b,3.1 **¶16884515**
SOME IV 24 06 31 54.3 44.72N 79.07E 10 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.3km s-min=6.9km az=103.0.
ISC IV 24 06 46 52.1–1.2 44.72N–.03 79.03E–.03 3–12 40 1-6
SOME IV 24 06 46 52.0 44.72N 79.03E 0 **¶16884516**
NNC IV 24 06 46 53.2–.89 44.69N 79.27E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.6km s-min=6.0km az=111.0.
ISC IV 25 14 57 36.4–1.1 44.69N–.03 79.09E–.03 9–11 41 1-4
ISCJB IV 25 14 57 36.3–.60 44.72N–.03 79.14E–.04 5–5 **¶16884561**
SOME IV 25 14 57 36.6 44.70N 79.08E 15
NNC IV 25 14 57 36.4–.69 44.72N 79.03E 14–7 2.8b,2.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=4.1km az=32.7.
NNC Event type se. Error ellipse: s-maj=8.6km s-min=2.8km az=108.0.
ISC IV 25 19 10 18.5–1.2 44.53N–.03 79.65E–.03 5–10 36 0-6
NNC IV 25 19 10 17.5–1.6 44.64N 79.26E 0 2.5b,2.5 **¶16465399**
SOME IV 25 19 10 18.9 44.53N 79.63E 10 2.5b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.4km s-min=6.8km az=104.0.
ISC IV 26 03 21 46.1–1.1 44.60N–.03 79.54E–.04 17–10 46 0-4
SOME IV 26 03 21 49.2 44.50N 79.28E 10 **¶16912079**
NNC IV 26 03 21 51.3–.98 44.35N 79.82E 0 3.0b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.3km s-min=5.8km az=111.0.
ISC V 10 07 19 43.9–1.1 44.74N–.03 79.17E–.03 6–10 47 1-6
NNC V 10 07 19 43.0–.85 44.76N 79.22E 0 2.9b,2.6 **¶16930265**
SOME V 10 07 19 44.8 44.73N 79.15E 15 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.9km s-min=4.1km az=107.0.
ISC V 11 20 00 28.2–3.1 48.05N–.08 84.8E–.10 10 11 1-5
SOME V 11 20 00 26.8 47.97N 84.93E 0 **¶16522959**
NNC V 11 20 00 37.5–3.5 47.72N 84.45E 0 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.7km s-min=16.9km az=84.0.
SOME V 15 18 26 48.9 44.97N 78.58E 15
NNC V 15 18 26 48.7–1.4 44.96N 78.79E 0 2.4b,2.2 **¶16949370**
NNC Event type se. Error ellipse: s-maj=18.1km s-min=5.7km az=95.0.
ISC V 25 01 14 17.2–.98 44.25N–.02 78.43E–.02 16–8 54 0-73
IDC V 25 01 14 14.5–1.0 44.18N 78.43E 0 3.5,3.5 **¶16710869**
ISCJB V 25 01 14 17.8–.39 44.26N–.02 78.43E–.03 16–5 3.0b,3.5
NNC V 25 01 14 18.4–1.0 44.38N 78.28E 19–7 4.1b,3.7
SOME V 25 01 14 18.2 44.23N 78.42E 15 3.0s,3.7
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=7.7km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.1km az=35.9.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=3.8km az=134.0.
ISC VI 14 03 12 29.1–1.1 45.05N–.03 78.92E–.03 7–8 77 0-72
BJI VI 14 03 12 26.9 45.27N 78.80E 5 3.6L **¶17206080**
ISCJB VI 14 03 12 27.6–.67 45.08N–.02 78.92E–.04 3–5 3.6b
NNC VI 14 03 12 28.7–.56 45.03N 78.81E 0 4.1b,3.7
SOME VI 14 03 12 29.9 44.92N 78.85E 10 2.9s,3.7
IDC VI 14 03 12 29.7–1.1 45.09N 78.97E 0 3.5,3.5
MOS VI 14 03 12 32.0–1.8 45.33N 78.67E 25 4.3b,3.5
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.4km az=27.1.
NNC Event type se. Error ellipse: s-maj=13.4km s-min=4.5km az=137.0.
IDC Error ellipse: s-maj=16.3km s-min=9.8km az=139.0.
MOS Event type fe. Error ellipse: s-maj=12.3km s-min=7.8km az=81.8. Felt (III) at Tekeli. Moment Tensor Solution.
ISC VI 14 04 52 37.1–1.1 47.39N–.06 79.93E–.07 10 12 2-3
ISCJB VI 14 04 52 35.6–.79 47.43N–.05 79.89E–.09 10 **¶17221774**
NNC VI 14 04 52 35.2–2.8 46.96N 79.81E 0 2.8b,2.6
SOME VI 14 04 52 37.4 47.15N 79.90E 15 2.8b,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.6km az=150.7.
NNC Event type se. Error ellipse: s-maj=24.7km s-min=12.6km az=38.0.
ISC VI 24 23 33 34.2–1.6 45.03N–.05 77.83E–.04 5–12 30 0-6
ISCJB VI 24 23 33 34.5–1.1 45.07N–.04 77.85E–.05 5–7 **¶17266164**
NNC VI 24 23 33 34.8–2.8 45.08N 77.79E 6–18 3.0b,2.6
SOME VI 24 23 33 35.2 45.03N 77.85E 20 3.0b,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.2km az=148.0.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=8.1km az=143.0.
ISC VI 25 00 05 46.1–1.1 48.40N–.04 82.94E–.05 10 16 1-5
NNC VI 25 00 05 42.3–3.2 48.59N 83.42E 0 3.7b,3.3 **¶17266165**
SOME VI 25 00 05 45.1 48.42N 82.98E 0 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.1km s-min=10.9km az=73.0.
ISC VI 28 18 58 41.5–2.5 46.7N–.10 81.42E–.07 11–24 38 1-5
NNC VI 28 18 58 42.5–.82 46.41N 81.44E 0 3.2b,2.5 **¶17270283**
SOME VI 28 18 58 43.1 46.67N 80.93E 10 3.2b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.7km s-min=4.1km az=147.0.
SOME VI 29 10 05 46.2 46.62N 79.60E 0
¶602044481

(330) Lake Issyk-Kul region.

ISC I 05 05 52 16.2–1.8 42.16N–.06 79.31E–.04 0–11 56 1-5
SOME I 05 05 52 14.4 42.02N 79.38E 10 **¶15908695**
KRNET I 05 05 52 15.1–.10 42.15N 79.41E 5 3.2b
NNC I 05 05 52 17.4–2.6 42.20N 79.34E 0 3.0b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.0km s-min=9.7km az=125.0.
ISC I 05 08 57 50.4–.82 43.17N–.02 78.36E–.02 10–6 62 0-5
KRNET I 05 08 57 49.8–.10 43.15N 78.35E 21 2.5b **¶16414750**
IASPE I 05 08 57 50.3–.86 43.17N–.03 78.36E–.02 11–6 2.5b
ISCJB I 05 08 57 50.8–.37 43.14N–.02 78.36E–.02 6–3 2.5b
SOME I 05 08 57 50.8 43.12N 78.37E 10 2.5b
NNC I 05 08 57 50.1–1.4 43.46N 78.37E 0 2.8b,2.4
ISC Event type se.
IASPE Event type se. Error ellipse: s-maj=4.8km s-min=3.1km az=163.9. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.7km az=155.6.
NNC Event type se. Error ellipse: s-maj=35.9km s-min=6.1km az=0.0.
ISC I 05 10 46 03.5–.80 43.07N–.03 77.10E–.02 17–5 58 0-3
NNC I 05 10 46 00.9–1.8 43.54N 76.95E 0 2.5b,2.5 **¶16414755**
ISCJB I 05 10 46 03.8–.37 43.06N–.02 77.09E–.02 12–2 2.5b,2.5
SOME I 05 10 46 03.8 43.07N 77.12E 15 2.5b,2.5
KRNET I 05 10 46 03.4–.10 42.99N 77.06E 21 2.1b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.6km s-min=9.1km az=39.0.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.8km az=164.0.
ISC I 05 18 37 43.3–.86 43.03N–.04 78.29E–.02 13–6 47 0-3
SOME I 05 18 37 41.9 42.97N 78.23E 0 **¶16414762**
KRNET I 05 18 37 42.5–.10 42.79N 78.39E 21 2.3b
NNC I 05 18 37 42.5–6.3 42.98N 78.35E 0 3.0b,2.5
ISCJB I 05 18 37 43.2–.52 43.03N–.03 78.24E–.03 1–4 3.0b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC I 11 22 34 27.3–1.2 42.92N–.03 78.70E–.02 2–10 94 0-12
BJI I 11 22 34 25.6 43.10N 78.51E 6 3.1L **¶16425093**
KRNET I 11 22 34 27.8–.10 42.93N 78.69E 9 3.5b
SOME I 11 22 34 27.6 42.92N 78.65E 15 3.5b
NNC I 11 22 34 28.1–1.0 43.01N 78.62E 0 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.8km s-min=2.8km az=155.0.
ISC I 18 00 11 59.6–1.3 42.85N–.04 79.53E–.03 3–10 97 0-8
SOME I 18 00 11 57.6 42.70N 79.55E 10 **¶16445636**
KRNET I 18 00 11 58.0–.10 42.77N 79.53E 1 3.2b
NNC I 18 00 11 58.1–.94 42.77N 79.53E 0 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.6km s-min=3.6km az=114.0.
SOME I 20 13 21 21.4 43.45N 78.45E 15
¶601989708
ISC I 20 18 26 31.5–1.6 42.13N–.05 78.53E–.03 4–11 68 0-5
SOME I 20 18 26 32.4 42.10N 78.52E 20 **¶16449335**
NNC I 20 18 26 33.2–1.3 42.21N 78.61E 0 2.9b,2.6

KRNET I 20 18 26 34.0–.10 42.22N 78.49E 28 2.3b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=2.9km az=152.0.
ISC I 24 04 50 53.7–.88 42.29N–.03 76.45E–.02 15–6 88 0-4
SOME I 24 04 50 53.7 42.27N 76.50E 15 ¶16453063
KRNET I 24 04 50 53.2–.10 42.31N 76.46E 20 2.9b
KNET I 24 04 50 54.6–.24 42.31N 76.30E 14–1 2.2L
NNC I 24 04 50 54.3–2.9 42.36N 76.43E 0 3.0b,2.8
ISC Event type se.
KNET Error ellipse: s-maj=2.0km s-min=1.5km az=125.0.
NNC Event type se. Error ellipse: s-maj=27.1km s-min=15.5km az=13.0.
ISC I 27 13 28 49.6–.89 43.22N–.02 78.29E–.02 8–7 71 0-7
KRNET I 27 13 28 48.6–.10 43.21N 78.27E 18 2.3b ¶16464747
ISCJB I 27 13 28 49.9–.38 43.18N–.02 78.29E–.02 6–3 2.3b
NNC I 27 13 28 49.5–.70 43.21N 78.32E 0 3.0b,2.6
SOME I 27 13 28 50.1 43.13N 78.28E 10 3.0b,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.5km az=157.8.
NNC Event type se. Error ellipse: s-maj=21.6km s-min=3.6km az=172.0.
KRNET I 29 22 35 50.6–.10 42.54N 77.84E 6 1.9b
¶601091924
KRNET I 31 04 43 22.9–.10 42.02N 78.00E 18 1.5b
¶601091935
ISC II 02 02 43 22.5–.84 43.42N–.03 79.62E–.02 10 53 0-7
NNC II 02 02 43 21.8–.62 43.46N 79.44E 0 2.5,2.3b ¶16494062
SOME II 02 02 43 22.2 43.43N 79.60E 0 2.5,2.3b
KRNET II 02 02 43 22.4–.10 43.42N 79.61E 2.4b,2.3b
ISCJB II 02 02 43 23.4–.42 43.41N–.03 79.77E–.03 10 2.4b,2.3b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC II 02 09 39 17.5–.86 42.63N–.02 75.14E–.02 12–7 78 0-6
KRNET II 02 09 39 17.1–.10 42.63N 75.14E 16 2.9b ¶16494082
KNET II 02 09 39 17.1–.47 42.64N 75.14E 8–9 2.0L
SOME II 02 09 39 18.3 42.75N 75.05E 5 2.0L
NNC II 02 09 39 18.1–.99 42.73N 75.09E 0 2.9b,2.7
ISC Event type se.
KNET Error ellipse: s-maj=2.5km s-min=1.9km az=153.0.
NNC Event type se. Error ellipse: s-maj=35.6km s-min=2.3km az=160.0.
ISC II 07 10 39 30.0–1.0 43.10N–.02 77.79E–.02 11–9 96 0-8
KRNET II 07 10 39 29.9–.10 43.12N 77.77E 21 3.1b ¶16501894
NNC II 07 10 39 29.4–.63 43.10N 77.81E 2–4 3.4b,3.0
SOME II 07 10 39 30.7 43.08N 77.78E 20 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=2.4km az=173.0.
ISC II 09 05 50 44.7–.89 42.97N–.03 78.26E–.02 11–7 63 0-8
KRNET II 09 05 50 43.8–.10 42.98N 78.26E 15 2.4b ¶16506034
SOME II 09 05 50 44.3 42.92N 78.27E 10 2.4b
NNC II 09 05 50 46.0–1.6 43.08N 78.36E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=69.4km s-min=5.7km az=168.0.
ISC II 10 16 23 51.8–.86 43.02N–.03 78.23E–.02 15–6 66 0-5
KRNET II 10 16 23 51.2–.10 43.02N 78.22E 19 2.1b ¶16506092
SOME II 10 16 23 52.6 43.02N 78.22E 5 2.1b
NNC II 10 16 23 52.1–.80 42.69N 78.55E 0 3.0b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.2km s-min=1.8km az=153.0.
ISC II 16 06 53 10.2–1.1 43.16N–.02 78.16E–.02 3–10 83 0-6
SOME II 16 06 53 10.2 42.92N 78.23E 10 ¶16525000
KRNET II 16 06 53 10.2–.10 43.11N 78.18E 21 2.6b
NNC II 16 06 53 11.4–.56 43.29N 78.22E 0 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.3km s-min=2.8km az=173.0.
ISC II 26 15 16 44.9–1.2 42.28N–.03 76.68E–.02 6–10 67 0-4
NNC II 26 15 16 42.8–4.9 43.87N 76.31E 0 2.6b,2.5 ¶16552873
SOME II 26 15 16 44.9 42.27N 76.72E 10 2.6b,2.5
KRNET II 26 15 16 45.2–.10 42.24N 76.66E 18 2.1b,2.5
ISC Event type ke.
NNC Error ellipse: s-maj=52.6km s-min=23.5km az=146.0.
ISC III 13 09 27 58.7–.85 42.12N–.03 77.20E–.02 11–5 3.8b 105 0-81
IDC III 13 09 27 56.9–1.3 41.97N 77.22E 0 5.4,5.4s ¶16477446
SOME III 13 09 27 58.8 42.02N 77.25E 20 3.2s,5.4s
KRNET III 13 09 27 58.7–.10 42.09N 77.21E 14 3.9b,5.4s
NNC III 13 09 27 59.9–1.5 42.16N 77.16E 0 4.1b,3.9
KNET III 13 09 27 59.8–.57 42.15N 77.14E 10–2 3.7L,3.9
BJI III 13 09 28 01.0 42.35N 77.33E 6 3.5L,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.2km az=9.0.
NNC Event type se. Error ellipse: s-maj=10.6km s-min=6.9km az=136.0.
KNET Error ellipse: s-maj=4.1km s-min=3.2km az=168.0.
ISC III 14 14 12 47.3–1.0 42.76N–.03 78.04E–.02 7–9 84 0-11
NNC III 14 14 12 47.8–.88 42.90N 78.08E 0 3.6b,3.2 ¶16591721
SOME III 14 14 12 48.6 42.82N 78.02E 10 3.6b,3.2
KRNET III 14 14 12 48.6–.10 42.67N 77.98E 15 3.1b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.6km s-min=3.1km az=177.0.
SOME III 18 19 15 34.3 43.25N 78.52E 15
¶602003263
ISC III 19 22 39 24.3–.98 42.78N–.02 76.44E–.02 11–9 77 0-8
SOME III 19 22 39 24.6 42.75N 76.45E 15 ¶16630853
KRNET III 19 22 39 24.5–.10 42.75N 76.46E 14 2.8b
NNC III 19 22 39 24.5–.33 42.75N 76.46E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=3.2km s-min=0.6km az=158.0.
ISC III 26 21 32 41.7–.80 42.96N–.02 76.08E–.01 17–6 86 0-6
NNC III 26 21 32 40.9–.47 42.91N 76.09E 6–5 3.0b,2.7 ¶16681429
ISCJB III 26 21 32 42.0–.32 42.97N–.02 76.08E–.02 7–2 3.0b,2.7
KNET III 26 21 32 41.7–.70 42.93N 76.04E 22–7 1.9L,2.7
KRNET III 26 21 32 41.3–.10 42.97N 76.07E 17 2.4b,2.7
SOME III 26 21 32 42.3 42.98N 76.05E 15 2.4b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=1.1km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.0km az=163.3.
KNET Error ellipse: s-maj=5.1km s-min=1.7km az=44.0.
ISC III 30 00 29 08.1–.91 43.26N–.03 78.74E–.02 14–7 45 0-4
NNC III 30 00 29 09.0–.62 43.40N 78.78E 1–20 2.6b,2.2 ¶16684691
KRNET III 30 00 29 08.9–.10 43.24N 78.76E 17 1.9b,2.2
SOME III 30 00 29 09.9 43.23N 78.77E 10 1.9b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=35.7km s-min=4.4km az=167.0.
ISC III 31 00 12 01.1–1.1 43.13N–.03 79.71E–.03 2–10 67 0-7
NNC III 31 00 11 59.4–1.1 43.00N 79.71E 13–7 2.8b,2.4 ¶16705015
SOME III 31 00 11 59.4 42.97N 79.90E 15 2.8b,2.4
KRNET III 31 00 11 59.8–.10 42.99N 79.83E 17 2.5b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=6.8km az=108.0.
ISC III 31 23 21 08.4–.99 42.97N–.02 77.73E–.02 13–9 81 0-8
NNC III 31 23 21 07.9–.44 43.02N 77.75E 0 3.3b,3.0 ¶16705075
SOME III 31 23 21 08.8 42.95N 77.72E 15 3.3b,3.0
KRNET III 31 23 21 10.0–.10 42.96N 77.67E 22 3.0b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.7km s-min=1.8km az=2.0.
ISC IV 01 04 12 17.2–.93 43.08N–.02 77.28E–.01 13–7 90 0-11
ISCJB IV 01 04 12 18.0–.35 43.13N–.02 77.31E–.02 5–2 ¶16705093
NNC IV 01 04 12 17.2–.70 43.04N 77.34E 0 3.1b,2.9
KRNET IV 01 04 12 17.8–.10 43.09N 77.26E 22 3.5b,2.9
SOME IV 01 04 12 18.0 43.07N 77.28E 15 3.5b,2.9
KNET IV 01 04 12 19.6–1.6 43.03N 77.10E 7–6 2.9L,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.0km az=172.1.
NNC Event type se. Error ellipse: s-maj=7.1km s-min=3.6km az=15.0.

KNET Error ellipse: s-maj=10.2km s-min=4.6km az=80.0.
ISC IV 03 21 12 15.1–.90 43.18N–.03 75.28E–.01 16–8 78 0-3
ISCJB IV 03 21 12 15.0–.47 43.19N–.02 75.27E–.02 1–3 ¶16713878
NNC IV 03 21 12 14.9–.85 42.57N 75.52E 0 2.6b,2.3
KRNET IV 03 21 12 15.2–.10 43.18N 75.27E 15 2.4b,2.3
KNET IV 03 21 12 15.4–.60 43.15N 75.24E 18–3 1.8L,2.3
SOME IV 03 21 12 16.0 43.13N 75.27E 15 1.8L,2.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.1km az=161.6.
NNC Event type se. Error ellipse: s-maj=6.4km s-min=2.8km az=144.0.
KNET Error ellipse: s-maj=4.6km s-min=2.7km az=31.0.
ISC IV 04 17 14 35.6–1.1 42.94N–.05 77.65E–.02 11–10 34 0-2
KRNET IV 04 17 14 34.2–.10 42.73N 77.81E 3.4b ¶601092360
SOME IV 04 17 14 36.1 42.87N 77.68E 15 3.4b
ISC Event type ke.
ISC V 01 02 31 29.1–.19 43.62N–.02 77.66E–.01 20–0 5.2b,4.8s 919 0-151
BJI V 01 02 31 26.8 43.71N 77.74E 8 5.3L,5.2b ¶16485949
NNC V 01 02 31 27.5–.52 43.72N 77.66E 2–3 5.8b,5.3
KRNET V 01 02 31 28.1–.10 43.64N 77.66E 24 5.4b,5.3
SOME V 01 02 31 28.9 43.58N 77.70E 20 4.3s,5.3
MOS V 01 02 31 28.3–1.1 43.64N 77.76E 22 5.3b,4.8s
IDC V 01 02 31 29.3–.33 43.55N 77.69E 23–1 4.7,4.6
NEIC V 01 02 31 29.6–.11 43.56N 77.75E 23 5.3b,4.8s
ISCJB V 01 02 31 29.3–.25 43.61N–.01 77.75E–.01 30–1 5.1b,4.7s
GCMT V 01 02 31 29.6–.20 43.72N 77.73E 25–1 5.2W,4.7s
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=5.2km s-min=2.2km az=170.0.
MOS Event type fe. Error ellipse: s-maj=4.9km s-min=4.6km az=127.5. Felt (IV) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=7.5km s-min=5.3km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.4km az=172.0. Felt [IV] at Almaty.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.8km az=171.2.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c65; s91,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.93±.12 $M_{\theta\theta}$-3.58±.10; $M_{\phi\phi}$1.66±.09; $M_{r\theta}$-5.28±.38; $M_{\theta\phi}$0.33±.07; $M_{\phi r}$-2.17±.25; Best double couple: NP1:ϕ_s248.00000°,δ79.00000°,λ72.00000°. NP2:ϕ_s129.00000°,δ21.00000°,λ149.00000°. Principal axes: T 6.0710,Plg52.0000°,Azm137.0000°; N 0.8070,Plg18.0000°,Azm251.0000°; P -6.8680,Plg32.0000°,Azm353.0000° $M_0$6.47000×10^{16}
ISC V 01 02 41 20.1–1.0 43.61N–.02 77.68E–.02 10–9 68 0-3
KRNET V 01 02 41 18.7–.10 43.62N 77.69E 21 3.5b ¶601092543
ISCJB V 01 02 41 20.1–.36 43.61N–.02 77.67E–.02 2–3 3.5b
SOME V 01 02 41 20.8 43.62N 77.68E 15 3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=164.3.
ISC V 01 03 05 50.2–.53 43.61N–.02 77.65E–.01 17–3 3.3b 127 0-82
KRNET V 01 03 05 50.0–.10 43.64N 77.67E 23 3.6b ¶16708453
NNC V 01 03 05 49.6–.60 43.70N 77.70E 2–5 4.0b,3.6
ISCJB V 01 03 05 51.0–.50 43.67N–.02 77.68E–.02 12–3 3.3b,3.6
IDC V 01 03 05 50.1–.78 43.47N 77.70E 24–4 3.4,3.4
SOME V 01 03 05 51.2 43.62N 77.68E 20 3.4,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.5km s-min=3.0km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=2.7km s-min=2.1km az=162.2.
IDC Error ellipse: s-maj=12.4km s-min=8.2km az=143.0.
ISC V 01 07 41 39.5–1.0 43.60N–.02 77.66E–.01 9–8 4.0b 105 0-33
KRNET V 01 07 41 38.6–.10 43.62N 77.66E 23 3.3b ¶16912256
NNC V 01 07 41 38.7–.67 43.61N 77.67E 3–4 3.5b,3.3
ISCJB V 01 07 41 39.3–.35 43.61N–.02 77.67E–.02 3–2 3.9b,3.3
SOME V 01 07 41 39.6 43.60N 77.65E 20 3.9b,3.3
MOS V 01 07 41 40.1–2.3 43.71N 77.68E 19 4.1b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.8km s-min=2.8km az=169.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=166.5.
MOS Event type fe. Error ellipse: s-maj=14.3km s-min=11.3km az=61.7. Felt (II) at Tyrgen. Moment Tensor Solution.
ISC V 01 09 13 55.0–.32 43.62N–.02 77.66E–.01 17–1 4.7b,4.0s 349 0-149
NNC V 01 09 13 53.0–.65 43.69N 77.67E 0–5 5.1b,4.8 ¶16485958
MOS V 01 09 13 53.5–1.5 43.74N 77.64E 16 4.7b,4.8
KRNET V 01 09 13 54.2–.10 43.62N 77.65E 22 4.6b,4.8
IDC V 01 09 13 55.3–.48 43.53N 77.66E 23–2 4.2,4.1
NEIC V 01 09 13 55.9–.49 43.60N 77.64E 22–3 4.9b,4.1
ISCJB V 01 09 13 55.2–.26 43.66N–.02 77.70E–.02 26–2 4.6b,3.9s
SOME V 01 09 13 55.4 43.62N 77.67E 25 3.5s,3.9s
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=6.6km s-min=2.2km az=172.0.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=5.2km az=106.6. Felt (III-IV) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=9.2km s-min=6.6km az=144.0.
NEIC Event type fe. Error ellipse: s-maj=5.3km s-min=3.9km az=169.0. Felt [III] at Almaty. Also felt at Energeticheskiy.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.9km az=163.2.
ISC V 01 11 37 09.6–.35 43.66N–.02 77.64E–.01 13–2 4.5b,3.5s 260 0-150
NNC V 01 11 37 07.9–.54 43.67N 77.68E 0 4.8b,4.6 ¶16485961
ISCJB V 01 11 37 08.7–.50 43.72N–.02 77.66E–.02 12–3 4.3b,3.6s
KRNET V 01 11 37 08.9–.10 43.62N 77.66E 22 4.3b,3.6s
MOS V 01 11 37 09.4–1.5 43.82N 77.50E 21 4.4b,3.6s
SOME V 01 11 37 09.9 43.58N 77.67E 20 2.7s,3.6s
IDC V 01 11 37 09.6–.58 43.57N 77.66E 23–2 4.0,3.9L
NEIC V 01 11 37 11.6–.94 43.72N 77.54E 28–6 4.8b,3.9L
ISC Event type fe.
NNC Event type se. Error ellipse: s-maj=7.7km s-min=2.9km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.9km az=162.7.
MOS Event type fe. Error ellipse: s-maj=6.9km s-min=5.3km az=82.6. Felt (IV) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=10.2km s-min=7.8km az=138.0.
NEIC Event type fe. Error ellipse: s-maj=8.5km s-min=5.4km az=150.0. Felt [III] at Almaty. Also felt at Esik.
ISC V 01 20 29 04.3–.37 43.63N–.02 77.69E–.02 15–2 4.0b,3.1s 211 0-110
ISCJB V 01 20 29 03.8–.56 43.72N–.02 77.72E–.02 12–4 3.9b,3.1s ¶16577944
MOS V 01 20 29 03.3–1.0 43.78N 77.66E 17 4.2b,3.1s
KRNET V 01 20 29 04.0–.10 43.64N 77.66E 24 4.6b,3.1s
NNC V 01 20 29 04.1–.83 43.67N 77.68E 3–6 4.5b,4.2
IDC V 01 20 29 04.9–.58 43.52N 77.70E 23–2 3.9,3.9
SOME V 01 20 29 05.3 43.62N 77.67E 20 2.8s,3.9
NEIC V 01 20 29 05.0–2.1 43.64N 77.73E 21–16 4.0b,3.9
ISC Event type se.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.2km az=159.7.
MOS Event type fe. Error ellipse: s-maj=7.4km s-min=5.8km az=84.3. Felt (IV) at Almaty. Moment Tensor Solution.
NNC Event type se. Error ellipse: s-maj=8.6km s-min=3.8km az=167.0.
IDC Error ellipse: s-maj=10.9km s-min=7.1km az=146.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.8km az=163.0.
ISC V 01 23 27 25.7–.67 43.61N–.02 77.62E–.01 15–5 100 0-74
IDC V 01 23 27 24.9–1.0 43.67N 77.68E 0 3.6,3.6 ¶16708543
NNC V 01 23 27 25.8–.91 43.60N 77.71E 0 4.0b,3.8
KRNET V 01 23 27 25.7–.10 43.62N 77.66E 23 3.9b,3.8
ISCJB V 01 23 27 26.6–.36 43.62N–.02 77.67E–.02 8–2 3.0b,2.7s
SOME V 01 23 27 26.5 43.58N 77.67E 15 3.0b,2.7s
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=7.3km az=138.0.
NNC Event type se. Error ellipse: s-maj=15.0km s-min=3.8km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.1km az=163.1.
ISC V 01 23 52 40.9–1.1 43.61N–.02 77.73E–.02 6–9 85 0-11
NNC V 01 23 52 40.6–.70 43.59N 77.69E 4–4 4.2b,3.9 ¶16912277
KRNET V 01 23 52 40.6–.10 43.62N 77.66E 24 3.7b,3.9
ISCJB V 01 23 52 41.3–.35 43.60N–.02 77.67E–.02 5–2 3.7b,3.9
SOME V 01 23 52 41.3 43.62N 77.68E 20 3.7b,3.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.3km s-min=2.1km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.0km az=161.9.

SOME V 02 00 46 48.6 43.60N 77.67E 15
KRNET V 02 00 46 48.2–.10 43.60N 77.72E 30 1.8b ¶601092565
SOME V 02 01 46 33.6 43.60N 77.70E 10
¶602044074
ISC V 02 02 31 09.0–.97 43.67N–.02 77.67E–.01 12–7 3.4b 135 0-74
IDC V 02 02 31 06.0–1.2 43.54N 77.63E 0 3.5,3.4 ¶16708549
NNC V 02 02 31 07.5–.75 43.72N 77.67E 4–6 4.1b,3.8
MOS V 02 02 31 08.7–1.6 43.83N 77.50E 9 4.2b,3.8
KRNET V 02 02 31 08.3–.10 43.62N 77.69E 22 3.8b,3.8
ISCJB V 02 02 31 09.4–.41 43.62N–.02 77.68E–.02 9–3 3.5b,3.8
SOME V 02 02 31 09.8 43.60N 77.68E 20 3.5b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=9.8km az=141.0.
NNC Event type se. Error ellipse: s-maj=6.2km s-min=3.0km az=172.0.
MOS Error ellipse: s-maj=10.8km s-min=7.4km az=76.5.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=161.9.
SOME V 02 14 33 09.3 43.62N 77.65E 20
KRNET V 02 14 33 09.2–.10 43.61N 77.70E 30 1.6b ¶601092579
ISC V 03 05 29 00.8–1.2 42.50N–.04 78.69E–.03 7–9 66 0-8
KRNET V 03 05 28 59.5–.10 42.44N 78.73E 21 3.0b ¶16912321
NNC V 03 05 29 00.9–.90 42.52N 78.71E 0 3.6b,3.2
SOME V 03 05 29 00.3 42.38N 78.73E 20 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.0km s-min=2.4km az=158.0.
ISC V 03 11 33 49.3–.98 43.59N–.02 77.67E–.02 25–10 120 0-19
KRNET V 03 11 33 47.9–.10 43.61N 77.67E 24 3.8b ¶16912342
NNC V 03 11 33 47.5–.37 43.66N 77.70E 1–2 3.9b,3.7
ISCJB V 03 11 33 48.4–.34 43.63N–.02 77.68E–.02 7–2 3.9b,3.7
SOME V 03 11 33 48.8 43.63N 77.68E 15 3.9b,3.7
MOS V 03 11 33 49.6–2.0 43.76N 77.54E 25 4.1b,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.0km s-min=1.5km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=2.8km s-min=2.0km az=160.8.
MOS Error ellipse: s-maj=12.4km s-min=8.2km az=87.6.
ISC V 04 02 25 42.8–1.2 43.61N–.02 77.66E–.02 4–10 92 0-7
NNC V 04 02 25 43.0–.61 43.67N 77.68E 5–4 3.6b,3.4 ¶16915413
KRNET V 04 02 25 43.4–.10 43.63N 77.68E 23 3.9b,3.4
ISCJB V 04 02 25 44.2–.35 43.61N–.02 77.69E–.02 3–2 3.9b,3.4
SOME V 04 02 25 44.4 43.63N 77.70E 15 3.9b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.1km s-min=2.8km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.0km az=160.9.
ISC V 06 03 34 24.9–1.1 42.02N–.03 75.58E–.02 5–10 67 0-4
KRNET V 06 03 34 24.3–.10 42.02N 75.55E 17 2.2b ¶16918874
NNC V 06 03 34 25.2–.52 42.09N 75.54E 0 2.7b,2.3
SOME V 06 03 34 25.6 41.98N 75.62E 10 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=3.2km s-min=1.8km az=141.0.
ISC V 15 15 26 56.8–1.1 43.57N–.03 77.63E–.02 14–9 52 0-7
KRNET V 15 15 26 56.6–.10 43.59N 77.68E 22 2.0b ¶16949363
NNC V 15 15 26 56.8–.97 43.58N 77.69E 5–3 2.7b,2.4
ISCJB V 15 15 26 57.5–.53 43.57N–.03 77.68E–.02 4–3 2.7b,2.4
SOME V 15 15 26 57.6 43.60N 77.67E 15 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.6km s-min=1.8km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.5km az=164.1.
ISC V 19 00 55 28.0–.99 42.86N–.02 76.27E–.02 9–9 58 0-4
NNC V 19 00 55 27.7–1.4 43.34N 76.10E 0 2.7b,2.2 ¶16956146
SOME V 19 00 55 28.7 42.82N 76.33E 15 2.7b,2.2
KRNET V 19 00 55 28.6–.10 42.81N 76.28E 13 1.9b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.1km s-min=4.3km az=148.0.
KRNET V 21 06 11 15.3–.10 42.06N 77.47E 18 1.4b
SOME V 21 06 11 15.1 42.07N 77.50E 0 1.4b ¶601092692
ISC V 21 09 40 04.5–1.3 42.68N–.03 79.04E–.03 4–10 67 0-6
NNC V 21 09 40 04.8–3.2 42.76N 78.98E 0 3.3b,3.0 ¶16988849
SOME V 21 09 40 05.0 42.68N 79.08E 10 3.3b,3.0
KRNET V 21 09 40 05.0–.10 42.74N 79.04E 18 3.1b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=41.8km s-min=9.2km az=142.0.
ISC V 27 18 24 22.4–1.0 42.86N–.02 76.79E–.01 5–9 89 0-8
KRNET V 27 18 24 22.0–.10 42.86N 76.78E 15 2.6b ¶17029817
NNC V 27 18 24 22.5–.58 42.88N 76.76E 0–3 3.2b,2.8
SOME V 27 18 24 23.6 42.92N 76.78E 10 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.4km s-min=1.8km az=160.0.
ISC V 30 13 58 57.1–1.9 42.03N–.05 78.74E–.04 6–11 72 1-9
SOME V 30 13 58 57.5 41.98N 78.78E 15 ¶17030782
KRNET V 30 13 59 04.4–.10 42.18N 78.64E 30 3.2b
NNC V 30 13 59 00.4–1.7 42.32N 78.60E 0 3.5b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=4.5km az=150.0.
ISC VI 02 05 13 58.7–.74 43.62N–.02 77.66E–.02 16–5 108 0-66
NNC VI 02 05 13 58.5–.48 43.59N 77.70E 6–3 4.1b,3.8 ¶17204944
MOS VI 02 05 13 58.2–1.4 43.76N 77.55E 12 4.3b,3.8
IDC VI 02 05 13 58.1–2.6 43.62N 77.55E 12–20 3.5,3.5
KRNET VI 02 05 13 58.4–.10 43.60N 77.66E 35 3.9b,3.5
ISCJB VI 02 05 13 59.2–.40 43.61N–.02 77.68E–.02 9–3 3.7s,3.4b
SOME VI 02 05 13 59.1 43.62N 77.68E 15 2.5s,3.4b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.9km s-min=2.2km az=169.0.
MOS Event type fe. Error ellipse: s-maj=16.9km s-min=9.5km az=67.0. Felt (III) at Talgar; (II) at Almaty. Moment Tensor Solution.
IDC Error ellipse: s-maj=17.2km s-min=9.8km az=133.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.0km az=160.9.
ISC VI 02 21 06 42.0–.75 42.45N–.02 78.39E–.02 12–4 3.9b,3.2s 194 0-83
IDC VI 02 21 06 40.0–.68 42.38N 78.45E 0 4.0,3.9 ¶16637551
ISCJB VI 02 21 06 40.3–.54 42.37N–.02 78.54E–.02 5–3 3.8b,3.3s
BJI VI 02 21 06 40.3 42.46N 78.43E 5 4.4b,4.4L
KRNET VI 02 21 06 41.5–.10 42.37N 78.41E 25 5.0b,4.4L
SOME VI 02 21 06 41.9 42.33N 78.38E 25 3.4s,4.4L
NNC VI 02 21 06 42.8–.93 42.53N 78.43E 0 4.8b,4.6
MOS VI 02 21 06 42.5–1.4 42.59N 78.52E 21 4.5b,4.6
NEIC VI 02 21 06 46.5–.71 42.54N 78.43E 44–7 4.1b,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=11.2km s-min=9.0km az=140.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=167.2.
NNC Event type se. Error ellipse: s-maj=8.6km s-min=2.4km az=167.0.
MOS Event type fe. Error ellipse: s-maj=9.0km s-min=6.0km az=117.4. Felt (II-III) at Almaty. Moment Tensor Solution.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.9km az=185.0. Felt [III] at Almaty, Kazakhstan.
ISC VI 03 00 38 27.5–1.0 42.41N–.04 78.43E–.03 12–6 60 0-4
SOME VI 03 00 38 27.1 42.35N 78.43E 20 ¶601092781
KRNET VI 03 00 38 27.9–.10 42.38N 78.39E 25 2.5b
ISC Event type ke.
ISC VI 06 23 16 25.5–1.0 43.63N–.03 77.68E–.02 9–10 50 1-6
ISCJB VI 06 23 16 25.3–.49 43.63N–.02 77.68E–.02 5–3 ¶17208916
NNC VI 06 23 16 25.1–.61 43.61N 77.69E 6–2 3.5b,3.0
SOME VI 06 23 16 25.9 43.63N 77.67E 15 3.5b,3.0
KRNET VI 06 23 16 26.1–.10 43.68N 77.69E 35 2.6b,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=171.8.
NNC Event type se. Error ellipse: s-maj=8.5km s-min=1.7km az=169.0.
ISC VI 08 05 09 18.0–1.0 42.20N–.03 76.60E–.02 17–8 57 0-5
SOME VI 08 05 09 18.9 42.22N 76.62E 10 ¶17216410
KRNET VI 08 05 09 18.3–.10 42.19N 76.60E 18 2.3b
NNC VI 08 05 09 18.0–2.7 43.86N 76.28E 20–24 3.6b,2.8
ISC Event type ke.
NNC Error ellipse: s-maj=24.5km s-min=18.1km az=145.0.
ISC VI 12 07 54 07.2–.00 42.78N–.02 76.48E–.02 8–10 73 0-4
KRNET VI 12 07 54 06.3–.10 42.79N 76.48E 12 2.3b ¶17218450
NNC VI 12 07 54 07.4–.62 42.72N 76.44E 0 2.8b,2.5
SOME VI 12 07 54 08.5 42.85N 76.47E 10 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.8km s-min=3.0km az=4.0.
ISC VI 14 16 52 19.0–1.4 42.68N–.05 79.35E–.03 1–11 58 1-8
SOME VI 14 16 52 17.9 42.55N 79.43E 15 ¶17221801
KRNET VI 14 16 52 17.7–.10 42.60N 79.37E 13 3.2b
NNC VI 14 16 52 18.6–1.6 42.62N 79.58E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.9km s-min=4.8km az=122.0.
ISC VI 19 07 17 39.9–.89 43.10N–.02 77.42E–.01 16–7 81 0-6
NNC VI 19 07 17 39.4–1.1 43.08N 77.44E 3–9 3.4b,3.1 ¶17237518
SOME VI 19 07 17 39.9 43.10N 77.42E 15 3.4b,3.1
KRNET VI 19 07 17 40.5–.10 43.07N 77.37E 17 3.1b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.7km s-min=4.3km az=169.0.
ISC VI 19 19 02 50.7–1.4 42.45N–.04 79.70E–.04 0–10 81 1-8
BJI VI 19 19 02 47.1 42.33N 79.65E 4 3.5L ¶17237536
SOME VI 19 19 02 47.4 42.20N 79.80E 20 3.5L
KRNET VI 19 19 02 48.4–.10 42.37N 79.70E 13 3.8b
NNC VI 19 19 02 48.0–1.6 42.33N 79.80E 0 3.9b,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.7km s-min=6.3km az=115.0.
ISC VI 22 10 24 47.6–.93 43.33N–.03 75.70E–.02 9–8 58 0-4
SOME VI 22 10 24 48.7 43.30N 75.70E 15 ¶17242780
NNC VI 22 10 24 48.7–2.0 42.63N 75.92E 0 2.8b,2.5
KRNET VI 22 10 24 48.4–.10 43.29N 75.66E 17 2.3b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.4km s-min=7.2km az=95.0.
ISC VI 24 21 07 24.8–1.2 43.97N–.04 78.32E–.03 16–9 42 0-7
NNC VI 24 21 07 25.9–1.1 43.89N 78.34E 0 2.7b,2.4 ¶17266160
SOME VI 24 21 07 25.8 43.98N 78.28E 15 2.7b,2.4
KRNET VI 24 21 07 26.1–.10 43.84N 78.34E 7 1.9b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.3km s-min=2.9km az=1.0.
ISC VI 27 18 39 16.6–.99 42.86N–.03 77.99E–.02 11–8 60 0-5
KRNET VI 27 18 39 16.9–.10 42.86N 77.93E 17 2.1b ¶17267989
NNC VI 27 18 39 17.3–.45 43.28N 77.88E 0 2.5b,2.4
SOME VI 27 18 39 17.8 42.85N 77.95E 10 2.5b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=2.2km az=172.0.

(331) Kazakhstan-Xinjiang border region.

ISC I 02 12 55 19.5–1.1 44.65N–.04 80.61E–.05 10 38 1-4
SOME I 02 12 55 19.8 44.67N 80.57E 10 ¶15906839
NNC I 02 12 55 19.6–.73 44.64N 80.55E 0 2.7b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.7km s-min=4.7km az=120.0.
ISC I 03 19 34 34.2–.78 46.11N–.04 83.22E–.05 12 3.4b 60 1-83
IDC I 03 19 34 32.1–.87 46.08N 83.18E 0 3.4,3.3 ¶15906972
NNC I 03 19 34 33.8–1.1 46.17N 83.10E 3–4 3.9b,3.5
SOME I 03 19 34 41.2 45.83N 82.78E 20 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=8.8km az=53.0.
NNC Event type se. Error ellipse: s-maj=9.6km s-min=4.3km az=77.0.
ISC I 23 10 33 16.9–1.6 45.22N–.05 80.67E–.06 2–14 22 1-6
NNC I 23 10 33 17.7–1.6 45.22N 80.76E 0 2.6b,2.2 ¶15963796
SOME I 23 10 33 19.1 45.20N 80.63E 25 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=35.5km s-min=10.2km az=119.0.
ISC II 02 06 37 28.7–1.6 45.48N–.05 80.55E–.05 2–16 18 1-5
NNC II 02 06 37 31.4–1.1 45.40N 80.87E 0 2.6b,2.3 ¶16494068
SOME II 02 06 37 32.2 45.45N 80.40E 25 2.6b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.3km s-min=6.6km az=120.0.
ISC II 04 06 15 09.8–2.6 46.9N–.10 84.5E–.10 10 10 1-5
NNC II 04 06 15 09.4–2.1 46.89N 84.45E 0 3.1b,2.9 ¶16498937
SOME II 04 06 15 11.5 47.62N 83.42E 0 3.1b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.1km s-min=9.5km az=100.0.
ISC II 05 11 10 55.9–1.4 47.24N–.04 82.58E–.07 11–11 35 0-5
NNC II 05 11 10 53.5–.46 47.28N 82.76E 0 3.8b,3.2 ¶16498979
SOME II 05 11 10 56.2 47.23N 82.48E 5 3.8b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.3km s-min=2.3km az=120.0.
ISC II 07 07 27 17.1–1.9 47.28N–.04 82.7E–.10 5–11 35 1-7
SOME II 07 07 27 12.0 47.62N 82.05E 20 ¶16501879
NNC II 07 07 27 15.2–.63 47.30N 82.76E 0 3.6b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=5.7km s-min=2.9km az=111.0.
ISC II 10 03 29 16.4–1.3 44.03N–.03 80.96E–.04 3–11 53 1-7
SOME II 10 03 29 16.5 43.93N 81.00E 10 ¶16506075
NNC II 10 03 29 17.4–1.3 44.18N 80.75E 0 3.4b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.5km s-min=4.5km az=120.0.
ISC II 24 05 12 35.0–1.3 47.47N–.04 82.02E–.04 2–14 28 1-4
NNC II 24 05 12 33.1–.54 47.49N 82.69E 0 3.4b,2.8 ¶16159882
SOME II 24 05 12 33.6 47.62N 81.92E 0 3.4b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=3.3km s-min=2.7km az=85.0.
ISC III 09 05 35 02.5–1.0 47.18N–.03 82.50E–.03 15–7 77 0-23
BJI III 09 05 35 00.1 47.27N 82.78E 5 3.2L ¶16577548
SOME III 09 05 35 01.2 47.25N 82.48E 5 3.2L
NNC III 09 05 35 01.8–.61 47.22N 82.66E 13–8 4.2b,3.4
MOS III 09 05 35 02.1–1.4 47.25N 82.57E 10 4.1b,3.4
ASRS III 09 05 35 05.1–1.3 47.31N 83.03E 15 3.2s,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.8km s-min=5.1km az=159.0.
MOS Error ellipse: s-maj=31.9km s-min=10.4km az=70.4.
ISC III 20 19 31 13.6–1.3 44.91N–.05 80.82E–.06 34–3 25 1-3
NNC III 20 19 31 13.1–.47 44.97N 80.58E 0 2.6b,2.2 ¶16633189
SOME III 20 19 31 13.3 44.92N 80.75E 20 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=54.0km s-min=2.4km az=117.0.
ISC III 27 08 40 36.4–1.5 44.94N–.04 80.34E–.04 3–13 44 1-6
NNC III 27 08 40 39.9–2.3 44.92N 80.14E 0 3.3b,2.9 ¶16375868
SOME III 27 08 40 40.7 44.83N 80.20E 15 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=47.3km s-min=13.2km az=138.0.
ISC IV 08 07 19 46.2–3.3 48.0N–.10 86.0E–.20 10 10 1-6
SOME IV 08 07 19 47.3 48.12N 85.78E 20 ¶16719600
NNC IV 08 07 20 08.4–8.3 48.47N 84.94E 20–82 4.0b,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=95.8km s-min=30.7km az=80.0.
ISC IV 21 03 38 57.1–1.8 43.11N–.05 80.69E–.06 2–11 52 0-4
SOME IV 21 03 38 59.1 43.08N 80.57E 5 ¶16872827
KRNET IV 21 03 38 59.7–.10 43.24N 80.56E 2.4b
ISC Event type ke.
ISC IV 22 23 11 11.3–.42 45.56N–.03 82.64E–.03 17–2 4.8b,3.9s 456 1-160
BJI IV 22 23 11 09.7 45.45N 82.60E 7 4.9b,4.9L ¶16452070
MOS IV 22 23 11 10.3–.90 45.49N 82.66E 23 5.0b,4.9L
IDC IV 22 23 11 10.5–1.5 45.50N 82.63E 15–9 4.5,4.5
ISCJB IV 22 23 11 12.0–.46 45.57N–.02 82.67E–.03 33–4 4.7b,4.0s
NEIC IV 22 23 11 12.4–.81 45.51N 82.61E 25–5 4.9b,4.0s
NNC IV 22 23 11 13.8–1.2 45.63N 82.04E 7–10 5.3b,5.0
SOME IV 22 23 11 17.3 45.22N 82.12E 0 4.1s,5.0
ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=6.1km s-min=4.5km az=120.4. Felt (III-IV) at Dostyk,(II-III) at Usharal. Moment Tensor Solution.
IDC Error ellipse: s-maj=9.0km s-min=8.5km az=3.0.

ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.8km az=26.5.
NEIC Event type fe. Error ellipse: s-maj=2.9km s-min=2.3km az=192.0. Felt [IV] at Dostyq and [III] at Usharal, Kazakhstan.
NNC Event type se. Error ellipse: s-maj=14.8km s-min=5.1km az=112.0.
ISC IV 23 13 36 08.3–1.3 45.54N–.03 82.68E–.03 18–5 4.2b,3.6s 151 1-94
IDC IV 23 13 36 05.4–.61 45.56N 82.80E 0 4.2,4.1 **¶16456592**
NEIC IV 23 13 36 06.2–1.7 45.49N 82.62E 8–11 4.3b,4.1
BJI IV 23 13 36 06.3 45.50N 82.70E 6 4.6L,4.5b
MOS IV 23 13 36 06.2–1.4 45.51N 82.56E 22 4.4b,4.5b
ASRS IV 23 13 36 07.9–1.0 45.43N 82.60E 15 3.9s,4.5b
NNC IV 23 13 36 07.3–1.0 45.53N 82.47E 0 4.9b,4.6
SOME IV 23 13 36 12.3 45.65N 82.08E 10 3.9s,4.6
ISC Event type fe.
IDC Error ellipse: s-maj=12.6km s-min=8.8km az=63.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=6.4km az=167.0. Felt [IV] at Dostyq, Kazakhstan.
MOS Event type fe. Error ellipse: s-maj=8.5km s-min=6.0km az=105.3. Felt (III-IV) at Dostyk. Moment Tensor Solution.
NNC Event type se. Error ellipse: s-maj=9.4km s-min=4.5km az=113.0.
ISC IV 26 21 57 08.0–1.6 45.60N–.06 82.36E–.08 0–18 16 1-4
NNC IV 26 21 57 05.9–2.3 45.52N 82.56E 0 2.6,2.4b **¶16912103**
SOME IV 26 21 57 07.7 45.58N 82.30E 5 2.6,2.4b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.8km s-min=12.2km az=125.0.
ISC IV 28 21 48 37.8–1.9 43.07N–.05 80.45E–.06 1–11 65 0-4
NNC IV 28 21 48 33.5–2.0 42.73N 80.46E 0 3.2b,3.0 **¶16491184**
SOME IV 28 21 48 35.0 42.90N 80.57E 10 3.2b,3.0
KRNET IV 28 21 48 35.2–.10 42.96N 80.54E 2.8b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.9km s-min=11.1km az=32.0.
ISC IV 30 07 23 38.7–1.3 45.41N–.05 82.43E–.05 16–12 44 1-16
NNC IV 30 07 23 39.3–1.1 45.53N 82.49E 0 3.5,3.5b **¶16491393**
SOME IV 30 07 23 42.5 45.40N 82.45E 15 3.5,3.5b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.5km s-min=4.8km az=113.0.
ISC V 12 02 52 26.5–1.3 45.45N–.05 82.25E–.06 14–13 32 1-5
SOME V 12 02 52 25.9 45.50N 82.28E 0 **¶16523113**
NNC V 12 02 52 26.3–.98 45.60N 82.64E 0 2.6,2.5b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.3km s-min=4.4km az=101.0.
ISC V 13 04 21 15.3–1.4 43.19N–.04 80.17E–.05 11–8 69 0-5
KRNET V 13 04 21 12.9–.10 43.08N 80.25E 15 2.7b **¶16946138**
NNC V 13 04 21 13.9–2.0 43.14N 80.19E 6–11 3.5b,3.1
SOME V 13 04 21 14.4 43.10N 80.25E 15 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.4km s-min=12.5km az=150.0.
ISC V 22 19 50 19.5–1.4 46.64N–.05 84.63E–.09 10 29 1-37
IDC V 22 19 50 19.1–2.1 46.73N 84.70E 0 4.1b,3.5 **¶16710652**
NNC V 22 19 50 20.1–2.0 46.65N 84.66E 0 3.6b,3.3
SOME V 22 19 50 21.9 46.78N 84.25E 0 3.6b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=13.5km az=120.0.
NNC Event type se. Error ellipse: s-maj=17.9km s-min=13.8km az=4.0.
ISC V 31 20 04 46.1–2.6 45.08N–.09 81.7E–.10 3–19 16 2-3
SOME V 31 20 04 47.7 45.07N 81.63E 15 **¶17061082**
NNC V 31 20 04 48.2–3.0 45.11N 81.64E 1–21 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=46.7km s-min=5.0km az=113.0.
ISC VI 02 18 21 47.1–1.3 44.38N–.03 80.69E–.04 0–12 47 1-4
NNC VI 02 18 21 50.9–1.1 44.28N 80.52E 0 3.0b,2.8 **¶16637569**
SOME VI 02 18 21 50.8 44.33N 80.53E 15 3.0b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=37.7km s-min=3.9km az=122.0.
ISC VI 04 15 57 30.5–.91 46.88N–.03 82.51E–.04 19–2 79 0-81
SOME VI 04 15 57 26.6 46.88N 82.53E 0 **¶17205237**
IDC VI 04 15 57 27.5–2.7 46.84N 82.82E 13–13 3.7,3.7b
NNC VI 04 15 57 27.2–.54 46.97N 82.81E 0 3.7b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=7.1km az=83.0.
NNC Event type se. Error ellipse: s-maj=5.7km s-min=2.6km az=149.0.
ISC VI 15 19 36 10.3–1.6 46.72N–.04 82.79E–.04 4–13 37 0-5
NNC VI 15 19 36 07.3–.53 46.66N 82.97E 0 3.7b,3.0 **¶16631380**
SOME VI 15 19 36 09.3 46.93N 82.50E 15 3.7b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.9km s-min=2.7km az=15.0.
ISC VI 19 00 17 01.5–2.7 47.55N–.07 84.8E–.10 10 20 0-7
SOME VI 19 00 17 03.3 47.62N 84.68E 0 **¶17237511**
NNC VI 19 00 17 04.1–3.3 47.80N 85.04E 22–24 3.9b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.7km s-min=15.0km az=89.0.
ISC VI 22 06 08 38.0–1.5 44.92N–.06 80.34E–.09 10 13 1-3
NNC VI 22 06 08 34.2–1.1 44.74N 82.14E 0 3.5b,3.0 **¶17242757**
SOME VI 22 06 08 46.5 44.63N 79.35E 10 3.5b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.7km s-min=2.4km az=117.0.
NNC VI 25 12 59 22.6–1.1 47.24N 82.77E 0 3.8b,3.2
¶17266183
NNC Event type se. Error ellipse: s-maj=9.5km s-min=5.2km az=115.0.
ISC VI 29 00 21 08.6–1.4 44.73N–.03 80.54E–.05 1–12 37 1-4
NNC VI 29 00 21 08.7–.61 44.71N 80.57E 0 2.7b,2.3 **¶17270285**
SOME VI 29 00 21 10.8 44.72N 80.40E 15 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.3km s-min=3.7km az=119.0.

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ISC I 02 03 04 48.4–1.8 44.65N–.05 81.10E–.07 4–14 21 1-3
NNC I 02 03 04 47.4–2.0 44.83N 80.99E 0 2.5b,2.1 **¶15906911**
SOME I 02 03 04 48.1 44.67N 81.35E 25 2.5b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.3km s-min=13.2km az=121.0.
ISC I 02 11 02 30.2–2.0 44.72N–.06 82.15E–.08 1–19 18 2-4
SOME I 02 11 02 30.6 44.78N 82.12E 0 **¶15906862**
ISC Event type ke.
ISC I 02 12 09 03.0–1.8 44.17N–.04 81.34E–.06 1–12 40 1-5
SOME I 02 12 09 02.8 44.17N 81.35E 5 **¶15906845**
NNC I 02 12 09 02.9–1.6 44.22N 81.30E 0 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.7km s-min=4.8km az=128.0.
ISC I 03 00 21 42.8–1.2 44.92N–.03 81.14E–.03 17–5 3.7b 145 1-73
IDC I 03 00 21 39.0–1.1 44.82N 81.15E 0 4.2s,4.2 **¶16007513**
BJI I 03 00 21 41.4 44.85N 81.19E 5 4.2b,3.9L
MOS I 03 00 21 42.6–.88 45.00N 81.11E 30 4.0b,3.9L
SOME I 03 00 21 43.4 44.85N 80.97E 10 3.1s,3.9L
NNC I 03 00 21 44.3–.66 44.93N 80.90E 16–3 4.4b,4.1
NEIC I 03 00 21 45.4–.88 44.94N 81.06E 39–7 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=15.7km s-min=8.6km az=125.0.
MOS Error ellipse: s-maj=10.0km s-min=7.2km az=104.8.
NNC Event type se. Error ellipse: s-maj=4.8km s-min=1.8km az=114.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=6.4km az=149.0.
ISC I 05 12 55 02.7–1.2 44.84N–.04 81.10E–.04 26–15 44 1-7
NNC I 05 12 55 00.2–.42 44.95N 80.82E 0 3.3b,2.9 **¶15908734**
SOME I 05 12 55 01.4 44.87N 81.13E 20 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.4km s-min=2.5km az=119.0.
ISC I 08 06 03 38.1–.84 43.81N–.09 86.64E–.06 10 3.5b 27 1-77
IDC I 08 06 03 36.0–1.5 43.77N 86.70E 0 3.7,3.6 **¶16395201**
ISCJB I 08 06 03 36.2–.70 43.69N–.08 86.47E–.06 10 3.6b,3.6
NNC I 08 06 03 36.9–4.0 43.72N 86.38E 0 3.5b,3.3
BJI I 08 06 03 38.6 43.42N 86.45E 8 3.9b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=18.6km az=36.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=5.3km az=13.8.
NNC Event type se. Error ellipse: s-maj=37.9km s-min=21.4km az=84.0.
ISC I 08 06 36 25.0–.33 42.10N–.04 84.21E–.03 10 4.4b 182 3-145
ISCJB I 08 06 36 22.8–.21 42.13N–.03 84.29E–.03 10 4.4b,3.7s **¶15909059**
IDC I 08 06 36 22.7–.58 42.15N 84.29E 0 4.2,4.1
NNC I 08 06 36 25.8–1.6 42.16N 84.21E 0 4.1b,3.9
BJI I 08 06 36 25.0 42.07N 84.22E 17 4.6b,4.4b
MOS I 08 06 36 26.0–1.1 42.17N 84.26E 33 4.5b,4.4b
NEIC I 08 06 36 28.2–.62 42.14N 84.28E 35–5 4.7b,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.9km az=17.6.
IDC Error ellipse: s-maj=14.2km s-min=9.8km az=60.0.
NNC Event type se. Error ellipse: s-maj=15.3km s-min=9.2km az=142.0.
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=120.4.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.6km az=179.0.
ISC I 10 07 09 04.2–3.0 43.8N–.10 84.1E–.10 20 17 3-6
NNC I 10 07 09 00.6–4.5 43.79N 84.35E 0 2.9b,2.5 **¶16416134**
SOME I 10 07 09 06.7 43.98N 83.72E 10 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=39.9km s-min=17.1km az=128.0.
ISC I 10 08 50 14.6–3.2 42.4N–.10 83.3E–.10 10 21 2-5
SOME I 10 08 50 11.5 42.35N 83.57E 10 **¶16416141**
NNC I 10 08 50 14.8–4.5 42.33N 83.25E 0 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=34.8km s-min=15.6km az=141.0.
ISC I 10 09 58 02.1–1.8 44.15N–.05 81.84E–.07 5–15 42 1-7
NNC I 10 09 58 01.2–1.7 44.05N 81.95E 0 2.9b,2.5 **¶16416146**
SOME I 10 09 58 02.3 44.18N 81.90E 10 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.5km s-min=4.2km az=125.0.
ISC I 10 15 50 10.1–2.3 42.71N–.10 82.26E–.08 10 30 2-4
NNC I 10 15 50 05.6–2.5 42.56N 82.31E 0 2.7b,2.3 **¶16416161**
SOME I 10 15 50 07.0 42.67N 82.50E 25 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.3km s-min=9.4km az=151.0.
ISC I 22 05 06 17.4–2.2 43.59N–.07 81.91E–.08 13–15 28 1-4
SOME I 22 05 06 17.1 43.65N 81.92E 15 **¶15967478**
NNC I 22 05 06 17.8–2.4 43.40N 82.04E 0 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.2km s-min=6.1km az=135.0.
ISC I 23 15 42 18.6–.65 43.12N–.06 84.65E–.03 32 3.8b 84 2-80
IDC I 23 15 42 12.7–.81 42.98N 84.69E 0 3.8,3.7 **¶15960291**
BJI I 23 15 42 17.7 43.04N 84.58E 10 3.9b,3.8L
NNC I 23 15 42 21.9–1.3 43.27N 84.24E 18–5 4.0b,3.7
SOME I 23 15 42 22.0 43.40N 84.08E 10 4.0b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=13.7km az=52.0.
NNC Event type se. Error ellipse: s-maj=9.6km s-min=5.2km az=122.0.
ISC I 25 04 38 54.5–1.6 44.0N–.10 87.08E–.08 20 12 4-14
ISCJB I 25 04 38 51.0–1.4 43.9N–.10 87.03E–.09 20 **¶16396771**
IDC I 25 04 38 51.6–4.2 43.96N 86.93E 0 3.2,3.2
NNC I 25 04 38 55.2–2.7 44.01N 86.65E 0 3.6b,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=9.3km az=2.1.
IDC Error ellipse: s-maj=57.4km s-min=25.5km az=21.0.
NNC Event type se. Error ellipse: s-maj=20.5km s-min=12.9km az=107.0.
ISC I 25 19 01 12.7–1.4 43.71N–.06 83.53E–.06 10 40 2-39
IDC I 25 19 01 09.7–2.0 43.57N 83.56E 0 4.1b,3.4 **¶15977608**
SOME I 25 19 01 10.9 43.62N 83.67E 15 4.1b,3.4
NNC I 25 19 01 15.7–1.9 43.78N 83.40E 0 3.5b,3.1
ISC Event type se.
IDC Error ellipse: s-maj=21.6km s-min=15.9km az=109.0.
NNC Event type se. Error ellipse: s-maj=18.7km s-min=7.4km az=117.0.
ISC II 19 07 34 51.9–1.9 44.13N–.07 82.49E–.09 10 23 2-5
NNC II 19 07 34 49.6–3.0 44.04N 82.67E 0 3.0b,2.6 **¶16531916**
SOME II 19 07 34 56.0 44.28N 82.42E 25 3.0b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.6km s-min=12.6km az=123.0.
ISC II 19 13 24 34.6–1.8 44.56N–.05 81.19E–.07 3–12 24 1-3
NNC II 19 13 24 34.1–1.2 44.74N 81.12E 0 2.5b,2.1 **¶16531936**
SOME II 19 13 24 35.0 44.58N 81.35E 20 2.5b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=38.2km s-min=3.2km az=119.0.
ISC II 23 15 24 37.1–3.0 42.1N–.20 81.69E–.09 4–18 18 2-5
SOME II 23 15 24 35.1 42.55N 82.03E 0 **¶16158489**
NNC II 23 15 24 37.4–2.3 42.15N 81.74E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.2km s-min=8.9km az=160.0.
ISC II 23 17 33 44.5–.96 44.07N–.08 87.11E–.07 20 3.6b 23 4-78
IDC II 23 17 33 40.6–1.2 43.87N 86.91E 0 3.7b,3.6 **¶16159815**
ISCJB II 23 17 33 41.0–.91 44.14N–.07 87.3E–.10 20 3.6b,3.6
NNC II 23 17 33 43.4–2.4 44.05N 86.87E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=40.6km s-min=14.8km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=8.2km az=146.4.
NNC Event type se. Error ellipse: s-maj=18.2km s-min=12.5km az=105.0.
ISC II 27 10 44 35.2–.50 44.36N–.03 83.08E–.03 17 3.9b 103 2-82
IDC II 27 10 44 32.9–.70 44.34N 83.27E 0 4.0,4.0b **¶16161186**
BJI II 27 10 44 34.7 44.36N 83.29E 9 4.0L,4.0b
SOME II 27 10 44 36.0 44.18N 83.03E 5 4.0L,4.0b
MOS II 27 10 44 36.5–1.4 44.41N 83.26E 33 4.2b,4.0b
NNC II 27 10 44 39.1–1.2 44.52N 82.74E 0 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=16.1km s-min=8.8km az=67.0.
MOS Error ellipse: s-maj=10.3km s-min=7.0km az=100.0.
NNC Event type se. Error ellipse: s-maj=13.7km s-min=4.5km az=116.0.
ISC II 28 10 08 31.1–3.1 43.8N–.10 83.6E–.10 10 19 2-4
SOME II 28 10 08 28.1 43.90N 83.50E 0 **¶16647740**
NNC II 28 10 08 36.4–3.4 43.73N 83.23E 0 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.1km s-min=13.8km az=120.0.
ISC III 04 11 13 20.5–1.8 44.63N–.05 82.37E–.09 10 24 2-4
SOME III 04 11 13 23.2 44.65N 82.22E 15 **¶16554949**
NNC III 04 11 13 24.7–2.1 44.70N 82.26E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.0km s-min=5.2km az=115.0.
OBM III 04 20 16 50.1–.14 43.82N 87.07E 2 3.8L
¶603822501
OBM Error ellipse: s-maj=2.9km s-min=2.4km az=131.0.
ISC III 04 20 16 53.7–.32 43.97N–.04 86.94E–.03 20 4.3b,3.5s 180 1-146
IDC III 04 20 16 49.6–.61 43.92N 86.99E 0 4.1,4.0 **¶16195219**
MOS III 04 20 16 50.6–1.3 43.92N 86.88E 12 4.5b,4.0
NEIC III 04 20 16 52.0–1.4 43.94N 86.89E 12–10 4.5b,4.3L
BJI III 04 20 16 52.2 43.89N 87.06E 10 4.6b,4.3L
ISCJB III 04 20 16 52.2–.20 44.03N–.03 86.81E–.03 20 4.2b,3.5s
NNC III 04 20 16 56.6–.79 44.13N 86.70E 20–3 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.6km s-min=10.6km az=46.0.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=123.5.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.2km az=201.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.7km az=34.6.
NNC Event type se. Error ellipse: s-maj=6.0km s-min=4.3km az=94.0.
SOME III 11 20 02 06.3 44.85N 81.10E 20
¶16587413
ISC III 14 11 18 19.2–.54 44.58N–.04 85.23E–.03 10 3.6b 47 2-81
SOME III 14 11 18 16.9 44.47N 85.30E 20 3.6b **¶16461710**
ISCJB III 14 11 18 17.9–.43 44.56N–.06 85.33E–.07 10 3.5b
IDC III 14 11 18 17.4–.73 44.36N 85.25E 0 3.8,3.7
NNC III 14 11 18 20.1–2.6 44.39N 85.00E 0 4.2b,4.0
BJI III 14 11 18 21.7 44.41N 85.22E 5 4.0b,4.0L

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=4.5km az=36.8.
IDC Error ellipse: s-maj=21.7km s-min=12.7km az=47.0.
NNC Event type se. Error ellipse: s-maj=21.3km s-min=11.7km az=108.0.
ISC III 14 15 40 44.7–2.5 43.65N–.07 82.42E–.10 10–16 29 2-5
SOME III 14 15 40 43.8 43.58N 82.48E 15 ¶16591722
NNC III 14 15 40 51.3–6.1 43.51N 82.21E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=71.5km s-min=23.1km az=143.0.
ISC III 16 17 43 49.9–3.0 42.2N–.10 82.12E–.09 14 16 2-6
SOME III 16 17 43 44.8 42.62N 82.40E 10 ¶16342019
NNC III 16 17 43 46.7–4.0 42.15N 82.34E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.2km s-min=22.7km az=155.0.
ISC III 19 06 23 55.9–1.7 44.71N–.06 82.16E–.09 10 14 2-3
SOME III 19 06 23 56.2 44.73N 82.12E 10 ¶16630800
ISCJB III 19 06 23 60.0–1.4 44.73N–.06 82.2E–.10 10
ISC Event type ke.
ISCJB Event type ke.
ISC III 19 14 11 15.1–1.8 43.65N–.06 81.84E–.06 7–13 24 1-16
SOME III 19 14 11 14.4 43.57N 81.90E 10 ¶16630847
ISC Event type ke.
ISC III 21 11 56 45.3–2.3 44.39N–.07 82.9E–.10 17 14 2-3
SOME III 21 11 56 45.2 44.38N 83.05E 20 ¶16633213
NNC III 21 11 56 46.1–2.3 44.34N 82.80E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=24.6km s-min=5.8km az=118.0.
ISC III 23 09 31 59.6–2.9 43.98N–.09 83.2E–.10 11–14 16 2-3
SOME III 23 09 31 50.1 43.67N 83.65E 10 ¶16647807
ISC Event type ke.
ISC III 23 15 14 14.2–1.2 44.36N–.03 81.02E–.03 1–10 63 1-18
IDC III 23 15 14 14.8–3.8 44.51N 80.92E 0 3.5,3.5 ¶16480463
SOME III 23 15 14 15.2 44.33N 81.18E 30 3.3s,3.5
NNC III 23 15 14 15.1–.90 44.40N 80.87E 0 4.1b,3.7
BJI III 23 15 14 17.0 44.34N 81.10E 5 3.3L,3.7
ISC Event type se.
IDC Error ellipse: s-maj=42.1km s-min=29.3km az=87.0.
NNC Event type se. Error ellipse: s-maj=11.5km s-min=3.8km az=117.0.
ISC III 26 14 34 52.2–4.1 42.3N–.20 83.3E–.20 10 13 2-5
SOME III 26 14 34 51.2 42.25N 82.70E 0 ¶16681422
NNC III 26 14 34 56.1–2.0 42.59N 82.79E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.1km s-min=8.7km az=129.0.
ISC III 30 05 14 13.8–1.3 44.76N–.06 82.73E–.06 10 33 2-8
SOME III 30 05 14 13.7 44.58N 82.78E 20 ¶16684695
NNC III 30 05 14 14.4–1.7 44.74N 82.94E 0 3.3b,2.9
ISCJB III 30 05 14 18.3–1.2 44.72N–.06 82.9E–.10 10 3.3b,2.9
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 30 12 31 20.2–1.9 44.67N–.07 82.3E–.10 35 17 2-3
SOME III 30 12 31 15.2 44.65N 82.25E 20 ¶16684725
NNC III 30 12 31 15.7–.99 44.69N 82.31E 0 2.9b,2.5
ISCJB III 30 12 31 18.3–1.3 44.63N–.05 82.4E–.10 33 2.9b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 31 14 31 01.7–4.4 46.24N–.10 86.4E–.30 35 7 2-7
NNC III 31 14 30 58.8–1.2 45.83N 85.27E 0 2.6b,2.2 ¶16705061
SOME III 31 14 30 59.5 45.83N 85.30E 10 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.5km s-min=7.9km az=35.0.
ISC IV 05 23 37 16.5–3.5 43.3N–.10 83.9E–.10 10 14 3-4
SOME IV 05 23 37 18.1 43.22N 83.80E 5 ¶16444088
ISC Event type ke.
ISC IV 08 22 43 41.3–1.6 44.74N–.07 82.92E–.08 17 17 2-4
NNC IV 08 22 43 39.1–2.5 44.68N 82.89E 0 2.9b,2.5 ¶16719629
SOME IV 08 22 43 40.8 44.68N 82.78E 5 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.8km s-min=7.2km az=113.0.
ISC IV 09 04 51 59.1–2.1 44.25N–.08 83.60E–.10 10 15 2-4
SOME IV 09 04 51 57.4 44.18N 83.70E 5 ¶16722508
NNC IV 09 04 52 03.3–6.8 44.33N 83.43E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=66.1km s-min=32.9km az=126.0.
ISC IV 11 03 53 48.0–3.7 43.3N–.10 81.8E–.10 4–23 19 1-3
SOME IV 11 03 53 42.8 43.77N 82.13E 15 ¶16725847
NNC IV 11 03 53 47.7–4.7 43.32N 81.83E 0 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=58.8km s-min=17.1km az=124.0.
ISC IV 16 13 10 29.0–3.0 44.65N–.09 82.2E–.10 0–24 14 2-3
NNC IV 16 13 10 29.4–1.8 44.70N 82.25E 0 3.3b,2.8 ¶16852835
SOME IV 16 13 10 29.8 44.72N 82.08E 20 3.3b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=24.9km s-min=4.1km az=116.0.
ISC IV 17 00 52 42.5–2.2 42.5N–.20 84.9E–.10 10 12 4-16
ISCJB IV 17 00 52 42.0–1.6 42.5N–.10 84.6E–.10 10 ¶16707151
NNC IV 17 00 52 43.5–3.4 42.30N 84.47E 10–13 3.5b,3.1
IDC IV 17 00 52 44.3–3.1 42.61N 85.00E 0 2.9,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=13.7km az=22.2.
NNC Event type se. Error ellipse: s-maj=25.2km s-min=10.4km az=132.0.
IDC Error ellipse: s-maj=33.1km s-min=28.8km az=73.0.
ISC IV 18 06 18 53.2–1.6 44.71N–.05 82.23E–.09 10 16 2-3
SOME IV 18 06 18 53.6 44.73N 82.32E 10 ¶16852898
ISCJB IV 18 06 18 56.8–1.2 44.70N–.05 82.3E–.10 10
NNC IV 18 06 18 57.1–1.8 44.77N 82.04E 0 2.9b,2.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=4.7km az=26.7.
NNC Event type se. Error ellipse: s-maj=25.5km s-min=7.2km az=117.0.
ISC IV 20 10 25 22.2–1.9 43.49N–.07 81.12E–.07 5–12 33 1-74
IDC IV 20 10 24 53.2–6.3 42.03N 78.99E 0 3.3,3.2 ¶602043943
SOME IV 20 10 25 18.7 43.43N 81.37E 10 3.3,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=244.3km s-min=50.4km az=127.0.
ISC IV 23 03 34 43.7–1.6 47.10N–.09 89.1E–.20 10 18 2-60
NNC IV 23 03 34 33.1–4.2 46.96N 90.38E 0 4.4b,4.4 ¶16463058
OBM IV 23 03 34 37.1–.13 47.16N 89.20E 2 3.6L,4.4
BJI IV 23 03 34 39.6 47.21N 89.59E 5 3.9L,4.4
IDC IV 23 03 34 42.1–2.4 47.15N 89.23E 0 3.8,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=41.0km s-min=31.2km az=115.0.
OBM Error ellipse: s-maj=2.3km s-min=1.9km az=43.0.
IDC Error ellipse: s-maj=42.7km s-min=20.4km az=167.0.
ISC IV 23 03 34 55.4–.81 46.95N–.06 89.19E–.08 10 3.9b 33 3-81
BJI IV 23 03 34 53.2 47.24N 89.61E 7 4.0L ¶16463061
IDC IV 23 03 34 53.7–.98 46.91N 89.28E 0 4.0,3.8
ISCJB IV 23 03 34 54.9–.72 47.10N–.06 89.05E–.09 10 3.7b,3.8
NEIC IV 23 03 34 55.4–.75 46.95N 89.25E 10 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=20.7km s-min=12.2km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=7.9km az=137.6.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.8km az=147.0.
ISC IV 23 20 55 05.3–1.9 44.84N–.05 81.02E–.07 9–12 22 1-15
SOME IV 23 20 55 03.7 44.83N 81.05E 10 ¶16881767
ISC Event type ke.
ISC IV 25 06 27 49.9–1.7 44.75N–.05 82.12E–.08 10 24 2-4
SOME IV 25 06 27 50.0 44.72N 82.15E 15 ¶16463187
ISCJB IV 25 06 27 52.0–1.1 44.74N–.05 82.2E–.10 10
NNC IV 25 06 27 52.1–1.2 44.81N 81.98E 0 3.3b,2.8
ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=4.6km az=28.2.
NNC Event type se. Error ellipse: s-maj=19.8km s-min=2.9km az=115.0.
ISC IV 26 06 16 11.5–1.8 44.66N–.05 82.30E–.08 10 28 2-5
SOME IV 26 06 16 11.1 44.65N 82.30E 20 ¶16465463
ISCJB IV 26 06 16 13.3–1.1 44.64N–.05 82.5E–.10 10
NNC IV 26 06 16 15.8–1.6 44.81N 81.94E 0 3.4b,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=4.6km az=28.5.
NNC Event type se. Error ellipse: s-maj=23.3km s-min=6.7km az=118.0.
ISC IV 26 18 45 23.5–2.7 42.4N–.10 84.13E–.09 10 17 3-5
SOME IV 26 18 45 22.5 42.32N 84.20E 10 ¶16912100
ISC Event type ke.
ISC IV 27 05 52 23.6–1.8 44.68N–.05 82.23E–.09 1–18 20 2-3
SOME IV 27 05 52 25.2 44.72N 82.05E 5 ¶16912109
NNC IV 27 05 52 29.6–2.1 44.86N 81.80E 0 3.0b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=33.8km s-min=8.8km az=117.0.
ISC IV 28 05 52 28.1–1.8 45.66N–.05 85.09E–.10 10 29 2-7
NNC IV 28 05 52 24.5–3.7 45.63N 85.30E 0 3.7b,3.2 ¶16912143
SOME IV 28 05 52 25.7 45.92N 84.98E 10 3.7b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.0km s-min=20.0km az=90.0.
ISC IV 28 06 52 42.4–1.9 45.96N–.06 84.72E–.09 10 23 2-6
NNC IV 28 06 52 36.4–2.1 45.92N 85.16E 0 3.7b,3.3 ¶16912150
SOME IV 28 06 52 36.2 45.57N 85.10E 5 3.7b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.7km s-min=12.9km az=119.0.
ISC IV 29 13 07 06.0–1.9 44.67N–.06 82.3E–.10 10 15 2-3
SOME IV 29 13 07 08.0 44.72N 82.17E 5 ¶16491274
NNC IV 29 13 07 10.0–1.6 44.73N 82.15E 0 3.3b,2.9
ISCJB IV 29 13 07 11.2–1.3 44.72N–.06 82.3E–.10 10 3.3b,2.9
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 01 06 55 57.2–.48 43.92N–.07 85.15E–.04 28 4.0b,3.0s 67 2-144
ISCJB V 01 06 55 55.5–.37 43.96N–.05 85.12E–.04 28 4.0b,2.9s ¶16577937
BJI V 01 06 55 55.1 43.65N 85.25E 7 4.3b,4.0b
IDC V 01 06 55 57.1–.68 43.73N 85.30E 35–5 3.9,3.9
NEIC V 01 06 55 58.2–.63 43.81N 85.24E 45–6 4.1b,3.9
NNC V 01 06 56 04.3–3.4 44.09N 84.58E 21–16 3.9b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=3.7km az=23.6.
IDC Error ellipse: s-maj=15.0km s-min=9.3km az=41.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.1km az=178.0.
NNC Event type se. Error ellipse: s-maj=24.3km s-min=12.9km az=99.0.
ISC V 02 16 19 53.6–1.2 42.28N–.07 84.02E–.05 10 50 3-75
IDC V 02 16 19 49.0–2.0 42.08N 84.04E 0 3.5b,3.4 ¶16708620
BJI V 02 16 19 52.7 42.09N 84.17E 6 3.2L,3.4
NNC V 02 16 19 56.1–1.2 42.39N 83.92E 0 3.6b,3.2
SOME V 02 16 19 57.6 42.37N 83.98E 5 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=21.2km az=77.0.
NNC Event type se. Error ellipse: s-maj=11.3km s-min=6.0km az=136.0.
ISC V 03 19 02 04.0–2.7 42.1N–.10 81.17E–.09 10 30 1-5
SOME V 03 19 02 03.0 42.02N 81.18E 25 ¶16912351
ISC Event type ke.
ISC V 04 00 59 03.5–2.8 42.7N–.10 84.1E–.10 10 26 3-5
NNC V 04 00 58 59.5–11 42.75N 84.23E 0 3.1b,2.8 ¶16915412
SOME V 04 00 59 01.9 42.85N 84.02E 15 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=93.6km s-min=46.0km az=143.0.
ISC V 04 13 29 21.6–2.6 43.84N–.07 81.87E–.07 2–17 26 2-5
SOME V 04 13 29 20.3 43.90N 81.98E 20 ¶16915441
NNC V 04 13 29 26.8–1.9 43.88N 81.51E 0 2.7b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.6km s-min=5.8km az=137.0.
ISC V 04 23 18 57.2–2.7 43.29N–.10 84.6E–.10 10 31 3-8
SOME V 04 23 18 57.2 43.33N 84.62E 0 ¶16915448
NNC V 04 23 19 06.0–1.4 43.30N 84.21E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.0km s-min=5.9km az=115.0.
ISC V 05 00 17 15.4–2.8 43.72N–.10 84.7E–.10 10 28 3-8
NNC V 05 00 17 13.0–5.5 43.40N 85.70E 0 3.5b,3.1 ¶16915449
SOME V 05 00 17 19.8 43.93N 84.45E 10 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=41.8km s-min=21.1km az=124.0.
ISC V 06 13 02 20.5–1.9 44.69N–.06 82.22E–.09 10 18 2-3
SOME V 06 13 02 21.1 44.72N 82.18E 20 ¶16918905
NNC V 06 13 02 22.3–1.2 44.73N 82.17E 0 3.0b,2.5
ISCJB V 06 13 02 23.0–1.3 44.70N–.06 82.3E–.10 10 3.0b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 07 06 22 46.3–1.8 44.69N–.05 82.27E–.10 1–19 20 2-3
SOME V 07 06 22 48.3 44.67N 82.35E 25 ¶16918933
NNC V 07 06 22 50.5–.75 44.73N 82.13E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.1km s-min=1.8km az=115.0.
ISC V 07 20 14 14.8–2.1 43.67N–.08 82.98E–.08 10 35 2-8
SOME V 07 20 14 13.4 43.58N 83.05E 15 ¶16918957
NNC V 07 20 14 22.2–4.5 43.87N 82.56E 10–19 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.0km s-min=9.5km az=129.0.
ISC V 08 23 31 01.8–.43 43.35N–.04 82.86E–.03 10 4.4b 172 2-84
IDC V 08 23 30 58.4–.67 43.34N 83.17E 0 4.2,4.1 ¶16500457
BJI V 08 23 31 00.2 43.36N 83.04E 6 4.4b,4.1b
MOS V 08 23 31 02.6–1.2 43.36N 83.05E 33 4.5b,4.1b
SOME V 08 23 31 03.1 43.40N 82.88E 5 3.4s,4.1b
NEIC V 08 23 31 03.9–.53 43.28N 83.11E 35 4.3b,4.1b
NNC V 08 23 31 05.4–2.5 43.46N 82.76E 0 4.4b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=14.7km s-min=11.5km az=68.0.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=128.1.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.3km az=175.0.
NNC Event type se. Error ellipse: s-maj=28.3km s-min=10.1km az=134.0.
ISC V 10 13 07 53.1–2.2 44.66N–.06 82.5E–.10 14–19 24 2-3
SOME V 10 13 07 56.5 44.75N 82.18E 5 ¶16930278
NNC V 10 13 07 58.2–1.3 44.72N 82.14E 0 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.6km s-min=3.2km az=116.0.
ISC V 11 04 36 13.3–1.3 44.43N–.04 81.06E–.04 1–11 56 1-73
IDC V 11 04 36 10.0–2.2 44.35N 80.93E 0 3.4,3.4b ¶16523049
NNC V 11 04 36 13.7–.80 44.47N 80.92E 1–4 3.7b,3.4
BJI V 11 04 36 14.3 44.46N 81.18E 7 3.3L,3.4
SOME V 11 04 36 14.4 44.43N 81.00E 5 3.3L,3.4
ISC Event type se.
IDC Error ellipse: s-maj=45.4km s-min=15.9km az=123.0.
NNC Event type se. Error ellipse: s-maj=10.2km s-min=1.9km az=121.0.
ISC V 12 12 29 23.1–2.1 44.29N–.05 81.61E–.08 4–13 31 1-4
SOME V 12 12 29 26.6 44.27N 81.38E 5 ¶16523075
ISC Event type ke.
ISC V 13 13 24 53.4–2.0 44.67N–.08 82.2E–.10 35 9 2-2
SOME V 13 13 24 46.6 44.73N 82.18E 0 ¶16946168
NNC V 13 13 24 48.3–2.7 44.69N 81.96E 0 2.7b,2.2
ISCJB V 13 13 24 50.7–1.6 44.59N–.07 82.3E–.20 33 2.7b,2.2
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 13 13 47 23.1–3.6 44.81N–.10 82.1E–.10 4–29 13 2-3
NNC V 13 13 47 21.9–1.5 44.64N 82.12E 0 2.6b,2.1 ¶16946169
SOME V 13 13 47 23.4 44.80N 82.15E 15 2.6b,2.1

ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=4.7km az=116.0.
ISC V 14 10 17 35.9–2.6 44.20N–.09 83.2E–.10 10 16 2-3
SOME V 14 10 17 34.4 44.37N 82.97E 10 ¶16946198
NNC V 14 10 17 36.8–1.3 44.26N 83.12E 0 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.0km s-min=4.4km az=120.0.
ISC V 17 12 37 25.9–1.9 43.24N–.08 82.81E–.08 10 35 2-39
IDC V 17 12 37 20.0–3.9 42.72N 82.85E 0 4.3b,3.9 ¶16710105
SOME V 17 12 37 22.8 43.22N 82.88E 15 4.3b,3.9
NNC V 17 12 37 29.1–1.5 43.16N 82.46E 12–6 3.7b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=79.0km s-min=31.6km az=95.0.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=5.0km az=133.0.
ISC V 17 13 15 15.9–2.7 42.9N–.10 82.42E–.09 16–17 20 2-4
SOME V 17 13 15 12.8 43.18N 82.82E 15 ¶16951460
NNC V 17 13 15 13.3–2.6 42.87N 82.56E 0 2.9b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=24.9km s-min=9.5km az=148.0.
ISC V 18 12 57 28.0–1.9 44.36N–.05 81.73E–.08 5–17 24 1-3
NNC V 18 12 57 29.7–3.5 44.60N 81.35E 0 2.6b,2.1 ¶16956139
SOME V 18 12 57 30.6 44.38N 81.60E 15 2.6b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=80.3km s-min=8.2km az=120.0.
ISC V 19 18 02 26.8–.84 42.19N–.06 83.55E–.03 15 3.6b 66 3-89
IDC V 19 18 02 23.7–.97 42.23N 84.16E 0 3.7,3.6 ¶16710314
BJI V 19 18 02 24.1 42.02N 83.39E 7 4.0b,3.5L
NNC V 19 18 02 26.0–2.9 42.25N 83.53E 0 4.2b,3.8
SOME V 19 18 02 29.6 42.25N 83.33E 25 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=37.3km s-min=14.7km az=62.0.
NNC Event type se. Error ellipse: s-maj=26.7km s-min=13.8km az=154.0.
ISC V 19 21 04 54.5–3.1 42.6N–.20 83.6E–.10 10 10 3-4
SOME V 19 21 04 47.1 41.23N 82.43E 10 ¶16956187
NNC V 19 21 04 54.8–4.5 42.51N 83.57E 0 3.0b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.4km s-min=18.0km az=140.0.
ISC V 20 00 19 05.3–3.3 42.3N–.20 83.29E–.10 10 12 2-5
NNC V 20 00 19 03.5–3.1 42.15N 83.28E 0 3.0b,2.6 ¶16988717
SOME V 20 00 19 05.9 41.48N 82.53E 0 3.0b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.9km s-min=11.7km az=145.0.
ISC V 20 06 40 17.8–1.6 44.71N–.05 82.16E–.08 10 22 2-4
NNC V 20 06 40 18.7–1.8 44.70N 82.26E 0 3.0b,2.5 ¶16988729
SOME V 20 06 40 19.1 44.80N 82.15E 15 3.0b,2.5
ISCJB V 20 06 40 20.4–1.2 44.71N–.05 82.3E–.10 10 3.0b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 20 08 04 28.3–2.7 42.2N–.10 83.20E–.09 10 23 2-5
SOME V 20 08 04 26.9 41.63N 82.70E 5 ¶16988737
NNC V 20 08 04 29.1–4.9 42.37N 83.29E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=38.6km s-min=17.4km az=145.0.
ISC V 20 13 20 16.5–3.5 44.6N–.10 82.3E–.20 4–21 10 2-3
SOME V 20 13 20 17.1 44.63N 82.32E 15 ¶16988757
NNC V 20 13 20 19.4–1.1 44.68N 82.25E 0 3.0b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.8km s-min=2.4km az=116.0.
ISC V 21 14 17 51.0–1.6 44.70N–.06 82.20E–.09 10 23 2-4
SOME V 21 14 17 51.0 44.72N 82.18E 20 ¶16988852
NNC V 21 14 17 51.2–1.4 44.66N 82.05E 0 3.2b,2.8
ISCJB V 21 14 17 52.1–1.4 44.64N–.07 82.4E–.10 10 3.2b,2.8
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 22 11 11 03.0–1.7 42.07N–.09 82.33E–.07 13 38 2-74
SOME V 22 11 10 57.2 42.60N 82.82E 5 ¶16637102
IDC V 22 11 11 00.7–3.6 42.07N 81.78E 0 4.2,4.2s
NNC V 22 11 11 03.0–1.6 42.04N 82.16E 0 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=76.2km s-min=21.0km az=110.0.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=7.3km az=141.0.
ISC V 22 14 23 55.0–2.5 42.04N–.08 81.33E–.07 1–13 52 2-9
SOME V 22 14 23 55.2 41.88N 81.22E 5 ¶16637087
NNC V 22 14 24 00.8–2.0 42.40N 81.45E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.3km s-min=7.3km az=149.0.
ISC V 23 08 38 45.4–.36 42.08N–.03 82.28E–.02 13 4.2b,3.4s 194 2-109
SOME V 23 08 38 42.6 41.97N 82.28E 10 3.7s,3.4s ¶16536846
IDC V 23 08 38 42.5–.61 41.92N 82.34E 0 4.3,4.2b
BJI V 23 08 38 45.5 41.99N 82.27E 10 4.4b,4.4b
MOS V 23 08 38 46.4–1.3 42.03N 82.36E 37 4.4b,4.4b
NEIC V 23 08 38 49.5–.95 42.03N 82.31E 47–7 4.5b,4.4b
NNC V 23 08 38 50.0–2.9 42.25N 82.15E 17–12 4.7b,4.4
ISC Event type se.
IDC Error ellipse: s-maj=12.7km s-min=11.1km az=44.0.
MOS Error ellipse: s-maj=9.6km s-min=5.9km az=116.2.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=5.6km az=158.0.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=9.9km az=128.0.
ISC V 23 22 29 27.7–2.1 42.04N–.07 82.18E–.05 2–11 3.8b 81 2-75
IDC V 23 22 29 21.6–2.1 41.78N 82.83E 0 3.8b,3.6 ¶16637159
NEIC V 23 22 29 21.6–8.7 41.57N 82.81E 8–51 4.5b,3.6
SOME V 23 22 29 24.6 41.98N 82.33E 15 4.5b,3.6
NNC V 23 22 29 30.4–1.8 42.15N 82.16E 2–7 3.9b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=38.0km s-min=24.2km az=107.0.
NEIC Event type se. Error ellipse: s-maj=35.0km s-min=12.5km az=148.0.
NNC Event type se. Error ellipse: s-maj=12.1km s-min=7.0km az=130.0.
ISC V 25 15 53 37.3–2.4 44.36N–.08 83.0E–.10 17 13 2-4
SOME V 25 15 53 33.0 44.35N 83.08E 0 ¶17002798
NNC V 25 15 53 37.8–5.4 44.61N 82.89E 0 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=57.5km s-min=15.1km az=114.0.
ISC V 28 22 14 14.3–2.1 44.96N–.09 82.2E–.10 10 15 2-4
SOME V 28 22 14 15.2 44.90N 82.13E 25 ¶17029847
ISCJB V 28 22 14 17.3–1.6 44.93N–.08 82.3E–.10 10
ISC Event type ke.
ISCJB Event type ke.
ISC V 30 04 57 51.7–3.3 42.05N–.09 82.06E–.09 7–20 26 2-5
SOME V 30 04 57 46.1 41.83N 82.23E 5 ¶17030756
NNC V 30 04 57 50.6–4.1 42.09N 82.14E 0 3.2b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.7km s-min=16.5km az=148.0.
ISC V 30 16 32 11.5–2.7 43.27N–.10 83.9E–.10 10 18 3-5
SOME V 30 16 32 10.0 43.17N 83.95E 10 ¶17030784
NNC V 30 16 32 14.7–4.4 43.51N 83.55E 0 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=41.6km s-min=15.0km az=119.0.
ISC V 30 16 37 05.0–.64 42.19N–.04 82.58E–.03 13 3.7b 72 2-81
IDC V 30 16 37 02.5–.83 41.98N 82.31E 0 3.8,3.7 ¶16702318
SOME V 30 16 37 04.3 41.72N 82.03E 5 3.0s,3.7
BJI V 30 16 37 06.6 41.99N 82.27E 10 3.7L,3.7
NNC V 30 16 37 08.4–1.1 42.13N 82.11E 0 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=14.1km az=34.0.
NNC Event type se. Error ellipse: s-maj=10.3km s-min=5.6km az=139.0.
IDC VI 02 12 02 49.2–3.2 43.86N 87.23E 0 3.7,3.6
NNC VI 02 12 02 53.5–2.3 43.81N 86.67E 0 3.9b,3.5 ¶17204998
IDC Error ellipse: s-maj=57.7km s-min=21.3km az=29.0.
NNC Event type se. Error ellipse: s-maj=17.3km s-min=13.0km az=103.0.

ISC VI 04 10 19 04.7–1.7 44.77N–.06 82.16E–.09 10 14 2-3
SOME VI 04 10 19 04.3 44.77N 82.17E 5 ¶17205182
ISCJB VI 04 10 19 07.7–1.3 44.73N–.06 82.3E–.10 10
ISC Event type ke.
ISCJB Event type ke.
ISC VI 04 11 03 56.5–1.3 44.17N–.05 81.95E–.06 10 47 1-8
SOME VI 04 11 03 56.6 44.18N 81.93E 15 ¶17205190
ISCJB VI 04 11 03 58.2–1.1 44.01N–.05 82.02E–.09 10
NNC VI 04 11 03 58.8–1.9 44.10N 81.72E 0 3.8b,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=4.4km az=35.5.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=5.0km az=124.0.
ISC VI 06 06 01 45.2–1.6 44.77N–.06 82.13E–.09 10 13 2-3
SOME VI 06 06 01 45.3 44.77N 82.12E 10 ¶16589603
NNC VI 06 06 01 46.4–1.1 44.75N 81.92E 0 2.9b,2.4
ISCJB VI 06 06 01 47.7–1.3 44.74N–.06 82.2E–.10 10 2.9b,2.4
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC VI 07 11 37 23.7–2.6 44.31N–.07 82.9E–.10 17 15 2-3
SOME VI 07 11 37 23.7 44.17N 82.92E 5 ¶16637821
NNC VI 07 11 37 24.5–3.6 44.36N 82.70E 0 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=37.5km s-min=11.3km az=120.0.
ISC VI 07 13 56 19.9–2.8 44.56N–.08 82.26E–.09 4–20 22 2-4
SOME VI 07 13 56 20.8 44.60N 82.20E 20 ¶16637804
ISCJB VI 07 13 56 21.7–1.8 44.70N–.06 82.2E–.10 2–15
NNC VI 07 13 56 21.8–.86 44.72N 82.13E 0 3.2b,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=5.6km az=28.3.
NNC Event type se. Error ellipse: s-maj=13.1km s-min=2.3km az=116.0.
ISC VI 07 18 31 22.6–3.1 42.1N–.10 82.71E–.09 7–16 37 2-5
SOME VI 07 18 31 30.2 42.20N 82.43E 20 ¶17218428
NNC VI 07 18 31 31.3–4.1 41.99N 82.07E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.5km s-min=16.0km az=150.0.
ISC VI 07 19 26 40.0–2.7 42.0N–.10 82.10E–.09 10 20 2-5
SOME VI 07 19 26 36.5 42.02N 82.17E 10 ¶17218431
NNC VI 07 19 26 37.4–3.8 41.98N 82.07E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.9km s-min=17.3km az=158.0.
ISC VI 08 01 53 26.2–.37 43.04N–.03 88.25E–.02 22–2 5.3b,5.1s 1066 1-153
BJI VI 08 01 53 23.4 42.95N 88.30E 10 5.5L,5.1s ¶16575902
MOS VI 08 01 53 24.4–.93 43.02N 88.28E 23 5.5b,5.0s
NNC VI 08 01 53 24.5–1.9 43.03N 88.31E 19–10 5.6,5.6b
ISCJB VI 08 01 53 24.4–.10 43.02N–.02 88.23E–.02 20 5.2b,5.0s
GCMT VI 08 01 53 26.1–.20 43.03N 88.28E 24–0 5.1W,5.0s
OBM VI 08 01 53 26.0–.09 43.07N 88.18E 15 4.9L,5.0s
NEIC VI 08 01 53 26.1–.82 43.02N 88.25E 21–5 5.3b,5.0s
IDC VI 08 01 53 29.0–1.6 43.04N 88.34E 45–15 5.0,4.8b
ISC Event type de.
MOS Error ellipse: s-maj=5.7km s-min=3.5km az=40.0.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=11.3km az=85.0.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.7km az=15.3.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s60,c73; s90,c154; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}4.29±.16 $M_{\theta\theta}$-4.48±.10; $M_{\phi\phi}$0.19±.09; $M_{r\theta}$2.23±.14; $M_{\theta\phi}$0.07±.07; $M_{\phi r}$0.68±.13; Best double couple: NP1:ϕ_{θ}82.00000°,δ59.00000°,λ81.00000°. NP2:ϕ_{θ}279.00000°,δ32.00000°,λ104.00000°. Principal axes: T 4.9200,Plg74.0000°,Azm328.0000°; N 0.0980,Plg8.0000°,Azm87.0000°; P -5.0160,Plg14.0000°,Azm179.0000° $M_0$4.96800×10^{16}
OBM Error ellipse: s-maj=2.2km s-min=1.1km az=177.0.
NEIC Event type de. Error ellipse: s-maj=2.8km s-min=2.1km az=189.0. At least eight people injured, 50 homes damaged and landslides occurred in the Dabancheng area. Felt [III] at Urumqi. Also felt at Korla.
IDC Error ellipse: s-maj=8.6km s-min=6.7km az=1.0.
ISC VI 08 01 54 38.6–.42 43.02N–.08 88.38E–.06 35 5.0b 91 10-148
ISCJB VI 08 01 54 36.9–.29 43.00N–.06 88.34E–.06 33 4.9b,4.4s ¶16682667
BJI VI 08 01 54 36.5 42.95N 88.31E 9 4.8L,4.4s
NEIC VI 08 01 54 38.1–2.3 43.01N 88.42E 32–15 5.0b,4.4s
IDC VI 08 01 54 40.3–3.4 43.02N 88.36E 47–30 5.0L,4.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.7km az=12.3.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.6km az=174.0.
IDC Error ellipse: s-maj=18.2km s-min=17.5km az=3.0.
ISC VI 08 02 00 19.4–.43 43.00N–.06 88.32E–.05 10 4.6b 147 1-147
ISCJB VI 08 02 00 17.6–.26 43.05N–.04 88.41E–.05 10 4.8s,4.5b ¶16682668
BJI VI 08 02 00 20.3 42.94N 88.28E 8 4.6L,4.3b
MOS VI 08 02 00 20.7–.89 43.14N 88.34E 29 4.7b,4.3b
OBM VI 08 02 00 21.3–.11 43.09N 88.16E 15 3.8L,4.3b
NEIC VI 08 02 00 23.1–.86 43.07N 88.36E 36–7 4.6b,4.3b
IDC VI 08 02 00 24.3–2.5 43.08N 88.37E 45–23 4.5,4.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=30.7.
MOS Error ellipse: s-maj=13.3km s-min=7.7km az=132.4.
OBM Error ellipse: s-maj=2.9km s-min=1.5km az=169.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=181.0.
IDC Error ellipse: s-maj=13.1km s-min=10.1km az=19.0.
OBM VI 08 02 00 24.7–.18 43.30N 88.22E 2 4.1L ¶603822508
OBM Error ellipse: s-maj=3.1km s-min=1.9km az=164.0.
ISC VI 08 03 05 06.6–.40 43.09N–.06 88.40E–.05 35 4.1b,3.6s 141 1-148
IDC VI 08 03 05 02.1–.53 42.98N 88.32E 0 4.2,4.1 ¶16575906
BJI VI 08 03 05 02.6 42.95N 88.32E 7 4.5b,4.3b
OBM VI 08 03 05 04.9–.13 43.03N 88.48E 2 3.9L,4.3b
ISCJB VI 08 03 05 04.7–.28 43.01N–.04 88.33E–.04 33 4.2b,3.9s
MOS VI 08 03 05 04.8–.97 43.10N 88.28E 27 4.2b,3.9s
NNC VI 08 03 05 05.0–2.0 43.01N 88.33E 24–11 4.5b,4.5
NEIC VI 08 03 05 08.0–.68 43.09N 88.29E 40–6 4.8b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=9.9km az=42.0.
OBM Error ellipse: s-maj=2.6km s-min=2.1km az=125.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.2km az=33.8.
MOS Error ellipse: s-maj=11.1km s-min=5.6km az=130.8.
NNC Event type se. Error ellipse: s-maj=15.5km s-min=12.8km az=66.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.2km az=193.0.
ISC VI 09 06 16 31.2–1.8 44.75N–.06 82.15E–.08 0–18 33 2-5
SOME VI 09 06 16 31.0 44.77N 81.87E 0 ¶16589725
NNC VI 09 06 16 33.4–1.4 44.88N 81.83E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.3km s-min=6.6km az=121.0.
ISC VI 10 05 26 00.7–1.7 44.35N–.04 81.17E–.06 0–12 32 1-5
SOME VI 10 05 26 01.9 44.43N 81.00E 10 ¶16637990
NNC VI 10 05 26 03.5–1.2 44.44N 80.88E 0 3.4b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.1km s-min=5.0km az=124.0.
ISC VI 11 05 45 39.9–1.9 44.68N–.06 82.25E–.10 3–18 20 2-4
SOME VI 11 05 45 42.5 44.68N 82.23E 25 ¶17216500
ISCJB VI 11 05 45 44.1–1.9 44.68N–.07 82.2E–.20 8–15
NNC VI 11 05 45 44.3–.88 44.75N 82.11E 0 3.0b,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=5.9km az=29.6.
NNC Event type se. Error ellipse: s-maj=13.3km s-min=2.1km az=116.0.
ISC VI 12 11 01 27.9–2.7 44.33N–.08 82.9E–.10 17 11 2-3
NNC VI 12 11 01 26.1–5.1 44.30N 82.94E 0 2.6b,2.3 ¶17218455
SOME VI 12 11 01 27.8 44.37N 82.87E 5 2.6b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=51.0km s-min=13.1km az=116.0.
ISC VI 12 12 18 57.4–3.5 44.3N–.10 83.1E–.20 10 11 2-3
SOME VI 12 12 18 58.6 44.35N 82.82E 0 ¶17218457
NNC VI 12 12 19 00.7–3.0 44.28N 83.07E 0 2.7b,2.3

ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.3km s-min=7.1km az=121.0.
ISC VI 15 00 01 53.3–1.7 43.78N–.06 82.23E–.06 5–11 60 1-74
IDC VI 15 00 01 49.4–2.1 43.60N 81.84E 0 3.7b,3.5 ¶17206141
SOME VI 15 00 01 52.7 43.53N 82.43E 20 3.7b,3.5
NNC VI 15 00 01 57.5–1.4 43.86N 82.03E 26–7 3.8b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=37.4km s-min=15.5km az=110.0.
NNC Event type se. Error ellipse: s-maj=13.5km s-min=4.3km az=126.0.
ISC VI 18 14 52 09.1–1.5 44.80N–.05 81.01E–.05 0–12 34 1-6
SOME VI 18 14 52 11.3 44.75N 80.83E 10 ¶17236669
NNC VI 18 14 52 12.6–1.8 44.87N 81.00E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=12.0km az=104.0.
ISC VI 18 15 15 29.8–1.8 44.11N–.05 81.69E–.07 4–14 34 1-5
NNC VI 18 15 15 33.5–3.2 44.28N 81.12E 0 3.2b,2.8 ¶17236671
SOME VI 18 15 15 34.4 44.12N 81.42E 15 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=43.2km s-min=7.7km az=132.0.
ISC VI 22 07 21 20.6–1.6 44.38N–.04 81.13E–.06 5–12 30 1-8
NNC VI 22 07 21 20.8–.80 44.41N 81.05E 0 3.5b,3.1 ¶17242764
SOME VI 22 07 21 23.2 44.38N 81.05E 25 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.6km s-min=2.5km az=124.0.
ISC VI 24 00 11 05.2–3.4 42.2N–.10 82.1E–.10 14 25 2-5
SOME VI 24 00 11 13.3 42.25N 81.72E 35 ¶17266124
NNC VI 24 00 11 15.2–1.5 42.27N 81.45E 0 3.0b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.2km s-min=5.2km az=163.0.
ISC VI 24 01 33 39.5–1.9 42.50N–.08 81.24E–.07 10 42 1-8
SOME VI 24 01 33 30.3 42.03N 81.42E 15 ¶16686548
NNC VI 24 01 33 35.6–1.6 42.24N 81.27E 6–7 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.0km s-min=7.0km az=138.0.
ISC VI 24 07 49 40.8–1.0 43.30N–.07 87.39E–.08 18 3.7b 25 1-79
IDC VI 24 07 49 37.2–.97 43.13N 87.33E 0 3.9,3.9b ¶16652971
ISCJB VI 24 07 49 39.0–.75 43.20N–.06 87.28E–.06 18 3.7b,3.9b
BJI VI 24 07 49 41.3 43.23N 87.43E 5 3.5L,3.9b
NNC VI 24 07 49 48.2–1.9 43.46N 86.91E 22–10 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=34.3km s-min=13.8km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.1km az=166.9.
NNC Event type se. Error ellipse: s-maj=12.8km s-min=9.1km az=108.0.
ISC VI 26 10 06 52.5–2.5 44.36N–.07 83.0E–.10 17 13 2-3
NNC VI 26 10 06 48.0–3.6 44.23N 83.24E 0 2.7b,2.4 ¶16684128
SOME VI 26 10 06 54.1 44.42N 82.82E 15 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.6km s-min=13.6km az=125.0.
ISC VI 28 03 09 41.6–2.6 44.14N–.06 81.99E–.08 3–18 32 1-7
SOME VI 28 03 09 43.9 44.18N 81.90E 30 ¶16686612
NNC VI 28 03 09 48.2–2.0 44.39N 81.41E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.1km s-min=16.5km az=93.0.
ISC VI 29 04 08 13.4–2.9 44.25N–.06 81.93E–.09 3–25 22 1-4
SOME VI 29 04 08 12.2 44.27N 82.03E 20 ¶17270290
NNC VI 29 04 08 13.6–3.9 44.35N 81.87E 0 2.6b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=56.4km s-min=8.7km az=122.0.
ISC VI 29 12 20 33.8–2.4 44.33N–.08 83.0E–.10 17 13 2-4
NNC VI 29 12 20 28.3–3.1 44.32N 83.01E 0 2.6b,2.2 ¶17270320
SOME VI 29 12 20 30.7 44.28N 83.02E 15 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.5km s-min=12.1km az=124.0.

(333) Tuva-Buryatia-Mongolia border region.

IDC I 09 23 29 16.4–2.8 49.05N 88.13E 0 3.1,3.1 ¶16395363
IDC Error ellipse: s-maj=27.1km s-min=17.3km az=93.0.
IDC I 23 01 48 28.2–2.1 50.17N 93.04E 0 2.7,2.7
NNC I 23 01 48 34.3–3.2 50.38N 92.47E 0 3.5b,3.2 ¶16396584
IDC Error ellipse: s-maj=38.7km s-min=21.2km az=1.0.
NNC Event type se. Error ellipse: s-maj=32.0km s-min=28.0km az=9.0.
IDC I 29 23 55 50.4–2.5 50.74N 97.73E 0 3.0,3.0 ¶17191275
IDC Error ellipse: s-maj=54.3km s-min=15.5km az=12.0.
ISC II 01 12 53 52.5–.24 51.00N–.02 107.89E–.02 13–1 4.6b,4.0s 484 1-153
OBM II 01 12 53 49.5–.08 51.04N 107.87E 5 5.1L,4.0s ¶15998192
BYKL II 01 12 53 51.3–.20 50.98N 107.85E 4.7W,4.0s
ISCJB II 01 12 53 51.5–.12 50.93N–.02 107.97E–.03 17 4.6b,4.0s
BJI II 01 12 53 51.7 50.75N 107.89E 5 4.8b,4.8b
IDC II 01 12 53 52.4–.35 50.97N 107.83E 17–2 4.2,4.2
NEIC II 01 12 53 53.0–.18 50.93N 107.94E 17 4.7b,4.2
MOS II 01 12 53 53.1–1.4 50.98N 108.01E 20 4.9b,4.2
ISC Event type fe.
OBM Error ellipse: s-maj=1.6km s-min=0.8km az=19.0.
BYKL Event type se. #FAULT_PLANE Typ Strike Dip Rake NP NS Plane Author # FM 286.95 44.43 -47.83 28 0 IEC + 55.20 58.75 -123.35 IEC #PRINAX sc T_val T_azim T_pl B_val B_azim B_pl P_val P_azim P_pl Author + eTv eTa eTp eBv eBa eBp ePv ePa ePp fCLVD # 168.31 7.94 74.05 28.03 272.68 60.67 IEC + 0.00 0.00 0.00 0.00 0.00 0.00 IEC. FELT I=VI MSK at Mukhorshibir, Harashibir, Okino-Klyuchi and V-VI at Novaya Zagan, Novosretenka and V at Bar, Desyatnikovo, Burnashev, Topka, Starye Klyuchi, Podlopatki, Sagan Nur, Malyy Kunaley, Tugnui. #STATIONS TIXI MA2 MAJO SSE ENH KMI AAK ARU KEV KBS. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.2km az=168.0.
IDC Error ellipse: s-maj=8.9km s-min=6.5km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=4.0km az=161.0. Felt [IV] at Ulan-Ude, [III] at Selenginsk and [II] at Irkutsk and Zakamensk, Russia. Felt [II] at Ulaanbaatar, Mongolia. Also felt at Darhan.
MOS Event type fe. Error ellipse: s-maj=6.1km s-min=4.8km az=98.1. Felt (III-IV) at Ulan-Ude; (II-III) at Selenginsk; (II) at Zakamensk, Irkutsk. Moment Tensor Solution.
ISC II 13 05 10 32.4–2.0 50.88N–.08 91.81E–.09 10 18 2-8
MOS II 13 05 10 30.0–3.7 50.77N 91.98E 15 4.0b ¶16512118
ASRS II 13 05 10 30.0–1.2 50.77N 91.98E 15 2.5s
NNC II 13 05 10 34.7–4.0 51.05N 91.52E 0 3.8b,3.5
ISC Event type se.
MOS Error ellipse: s-maj=10.2km s-min=6.8km az=96.0.
NNC Event type se. Error ellipse: s-maj=46.1km s-min=26.6km az=22.0.
OBM II 16 10 13 31.2–.09 52.02N 99.93E 2 3.9L ¶604057217
OBM Error ellipse: s-maj=1.6km s-min=0.6km az=176.0.
ISC II 16 10 13 34.9–.83 51.94N–.04 100.08E–.03 3–5 70 1-34
OBM II 16 10 13 32.3–.23 51.97N 99.98E 2 4.0L ¶16166854
BYKL II 16 10 13 34.6–.71 51.92N 100.01E 4.0L
MOS II 16 10 13 35.2–1.3 52.02N 100.05E 11 4.7b
ISC Event type se.
OBM Error ellipse: s-maj=4.2km s-min=1.7km az=179.0.
BYKL Event type se. FELT I=IV MSK at Sorok.
MOS Event type fe. Error ellipse: s-maj=14.0km s-min=10.7km az=33.5. Felt (III) at Sorok. Moment Tensor Solution.
MOS III 03 19 56 02.1–3.2 51.49N 98.47E 10 4.1b ¶602092236
MOS Error ellipse: s-maj=13.0km s-min=12.3km az=3.8.
IDC III 15 01 03 09.3–1.5 49.25N 95.07E 0 2.8,2.8 ¶17195965
IDC Error ellipse: s-maj=42.2km s-min=13.3km az=170.0.
ISC III 29 05 24 52.0–.63 51.19N–.08 98.57E–.04 6 3.8b 46 1-84
OBM III 29 05 24 46.3–.17 51.29N 98.36E 2 4.0L ¶16475622
MOS III 29 05 24 50.4–1.4 51.15N 98.46E 8 4.2b
IDC III 29 05 24 50.8–.74 51.17N 98.54E 0 3.7b,3.7
ISCJB III 29 05 24 50.4–.49 51.20N–.08 98.40E–.06 6 3.8b,3.2s
ASRS III 29 05 24 50.7–3.5 51.07N 98.22E 15 3.6s,3.2s
ISC Event type ke.
OBM Error ellipse: s-maj=3.5km s-min=1.5km az=175.0.
MOS Error ellipse: s-maj=10.1km s-min=9.8km az=174.7.
IDC Error ellipse: s-maj=24.7km s-min=7.8km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.1km az=5.2.
ISC V 15 01 51 43.5–1.6 50.7N–.20 96.44E–.09 10 9 3-10
IDC V 15 01 51 41.3–2.4 50.74N 96.44E 0 3.0,3.0 ¶17203654
MOS V 15 01 51 45.1–3.5 50.59N 96.55E 10 4.4b,3.0
ISC Event type ke.
IDC Error ellipse: s-maj=53.2km s-min=17.4km az=17.0.
MOS Error ellipse: s-maj=55.6km s-min=33.3km az=156.7.
ISC V 20 06 56 19.6–.58 52.22N–.07 98.82E–.04 10 3.8b 44 1-63
OBM V 20 06 56 11.5–.22 52.06N 98.41E 2 3.8L ¶16710364
ASRS V 20 06 56 17.9–3.7 51.93N 98.16E 15 3.4s
MOS V 20 06 56 18.9–2.3 52.01N 98.82E 14 4.1b
ISCJB V 20 06 56 19.1–.47 52.19N–.08 98.78E–.05 10 3.7b,3.2s
IDC V 20 06 56 19.4–.75 52.31N 98.87E 0 3.6,3.5
NNC V 20 06 56 45.5–4.5 52.30N 96.46E 0 3.8b,3.5
ISC Event type se.
OBM Error ellipse: s-maj=3.1km s-min=1.5km az=158.0.
MOS Error ellipse: s-maj=10.0km s-min=7.7km az=32.8.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=4.4km az=3.1.
IDC Error ellipse: s-maj=20.8km s-min=8.6km az=7.0.
NNC Event type se. Error ellipse: s-maj=43.3km s-min=39.4km az=48.0.
BYKL V 22 06 23 44.2–.46 50.20N 105.38E
MOS V 22 06 23 44.3–2.1 50.19N 105.39E 7 4.3b ¶16591863
BYKL Event type se.
MOS Error ellipse: s-maj=23.9km s-min=11.8km az=99.1.
IDC V 22 12 11 40.9–541 50.92N 113.71E 0 ¶17204221
IDC Error ellipse: s-maj=197.6km s-min=112.9km az=62.0.
IDC V 22 12 23 08.1–944 50.91N 114.03E 0 ¶17204222
IDC Error ellipse: s-maj=322.6km s-min=119.4km az=71.0.
IDC V 22 12 35 03.7–470 50.79N 114.05E 0 ¶17204223
IDC Error ellipse: s-maj=192.6km s-min=109.2km az=64.0.
MOS VI 02 04 25 15.1–2.9 51.92N 98.51E 9 4.4b
OBM VI 02 04 25 08.8–.09 51.88N 98.19E 2 3.6L ¶16620908
MOS Error ellipse: s-maj=18.2km s-min=11.6km az=19.1.
OBM Error ellipse: s-maj=1.7km s-min=0.8km az=2.0.
IDC VI 29 10 05 27.0–542 50.87N 113.06E 0 ¶17207186
IDC Error ellipse: s-maj=205.1km s-min=110.0km az=58.0.

(334) Mongolia.

OBM II 15 12 18 21.3–.13 45.83N 95.94E 2 3.5L,1.9 ¶603822497
OBM Error ellipse: s-maj=2.1km s-min=0.8km az=9.0.
ISC II 18 20 15 23.3–.99 43.1N–.10 104.3E–.10 35 3.3b 10 5-70
IDC II 18 20 15 18.3–.98 43.08N 104.54E 0 3.6,3.4 ¶17192502
ISCJB II 18 20 15 21.2–.85 43.14N–.09 104.5E–.20 33 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC II 23 17 10 39.1–.46 45.93N–.03 93.89E–.03 15–2 4.6b,4.3s 291 3-150
ASRS II 23 17 10 34.8–1.6 46.07N 94.79E 15 5.0s,4.3s ¶16136373
IDC II 23 17 10 36.0–.46 45.92N 93.95E 0 4.3,4.2
BJI II 23 17 10 37.5 45.75N 94.00E 10 5.6L,5.1s
OBM II 23 17 10 37.0–.07 45.95N 94.02E 2 5.2L,5.1s
ISCJB II 23 17 10 37.3–.16 45.90N–.02 93.93E–.03 17 4.5b,4.3s
MOS II 23 17 10 37.1–1.4 45.99N 93.97E 14 4.9b,4.4s
NNC II 23 17 10 38.2–2.0 46.09N 93.92E 15–11 5.3b,5.1
GCMT II 23 17 10 40.4–.20 45.97N 94.02E 31–0 5.0W,5.1
NEIC II 23 17 10 40.4–1.4 45.93N 93.94E 29–10 4.8b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=12.3km s-min=8.8km az=4.0.
OBM Error ellipse: s-maj=2.0km s-min=0.6km az=12.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.5km az=2.3.
MOS Error ellipse: s-maj=5.9km s-min=4.9km az=129.8.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=9.7km az=159.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c60; s86,c149; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.62±.14 $M_{\theta\theta}$1.19±.11; $M_{\phi\phi}$-0.56±.10; $M_{r\theta}$-0.36±.15; $M_{\theta\phi}$4.07±.08; $M_{\phi r}$0.72±.13; Best double couple: NP1:ϕ_s187.00000°,δ82.00000° ,λ-169.00000°. NP2:ϕ_s95.00000°,δ79.00000°,λ-8.00000°. Principal axes: T 4.4810,Plg2.0000°,Azm321.0000°; N -0.4420,Plg77.0000°,Azm222.0000° ; P -4.0350,Plg13.0000°,Azm51.0000° M_ϕ4.25800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=178.0.
OBM II 25 09 58 21.6–.03 47.54N 110.15E 2 3.8L ¶603822500
OBM Error ellipse: s-maj=1.0km s-min=0.5km az=12.0.
IDC III 02 09 39 01.7–4.3 44.39N 97.10E 0 4.3b,3.5 ¶17193122
IDC Error ellipse: s-maj=74.3km s-min=18.1km az=176.0.
OBM III 23 22 10 36.0–.03 45.57N 111.40E 2 3.8L ¶603822502
OBM Error ellipse: s-maj=0.8km s-min=0.6km az=113.0.
OBM III 23 23 55 59.2–.04 45.59N 111.38E 2 3.5L ¶603822503
OBM Error ellipse: s-maj=0.7km s-min=0.6km az=103.0.
OBM III 25 05 30 49.0–.04 45.57N 111.39E 15 3.6L ¶603822504
OBM Error ellipse: s-maj=1.0km s-min=0.6km az=98.0.
ISC IV 13 19 54 17.8–.46 45.44N–.04 98.61E–.04 13–2 5.2s,5.0b 486 3-153
IDC IV 13 19 54 14.8–.42 45.33N 98.67E 0 5.1,5.1s ¶16426886
ISCJB IV 13 19 54 14.3–1.1 45.42N–.02 98.60E–.03 2–7 5.4s,5.0b
OBM IV 13 19 54 15.0–.07 45.22N 98.64E 2 5.2L,5.0b
BJI IV 13 19 54 15.8 45.54N 98.67E 20 5.3L,4.8s
NNC IV 13 19 54 17.3–1.3 45.55N 98.44E 0 4.8b,4.8s
MOS IV 13 19 54 17.2–.90 45.39N 98.62E 24 5.0b,4.8s
NEIC IV 13 19 54 18.0–.15 45.40N 98.61E 16 5.3b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=11.8km s-min=9.2km az=8.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.0km az=27.6.
OBM Error ellipse: s-maj=2.1km s-min=0.5km az=7.0.
NNC Event type se. Error ellipse: s-maj=18.2km s-min=14.7km az=140.0.
MOS Error ellipse: s-maj=5.9km s-min=3.9km az=122.5.
NEIC Event type se. Error ellipse: s-maj=4.1km s-min=3.0km az=187.0.
ISC IV 16 02 29 39.7–.36 45.29N–.04 98.69E–.04 10 4.8b 142 3-153
IDC IV 16 02 29 38.6–.53 45.33N 98.62E 0 4.5,4.4 ¶16445548
ISCJB IV 16 02 29 38.4–.25 45.35N–.04 98.61E–.04 10 4.6b,4.3s
MOS IV 16 02 29 39.9–.90 45.29N 98.59E 23 4.9b,4.3s
NEIC IV 16 02 29 39.9–.24 45.31N 98.65E 10 4.8b,4.3s
OBM IV 16 02 29 40.0–.08 45.26N 98.69E 20 5.0L,4.3s
BJI IV 16 02 29 44.8 45.39N 98.27E 28 5.1b,5.1L
ISC Event type se.
IDC Error ellipse: s-maj=14.2km s-min=10.1km az=6.0.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=169.8.
MOS Error ellipse: s-maj=8.0km s-min=5.9km az=111.2.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.2km az=177.0.
OBM Error ellipse: s-maj=2.4km s-min=0.9km az=11.0.
ISC IV 17 14 28 12.6–5.7 49.7N–.20 91.8E–.40 10 6 6-11
IDC IV 17 14 28 07.6–2.8 49.66N 92.04E 0 2.9,2.9 ¶16707211
NNC IV 17 14 28 10.1–6.7 49.50N 92.07E 8–26 3.5b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=34.0km s-min=23.0km az=140.0.
NNC Event type se. Error ellipse: s-maj=49.8km s-min=41.3km az=174.0.
BYKL IV 18 05 54 57.6–.50 49.89N 103.02E
OBM IV 18 05 54 56.9–.10 49.95N 103.07E 2 3.6L ¶16462841
MOS IV 18 05 54 57.5–2.2 49.89N 103.03E 7 4.3b
BYKL Event type se.

OBM Error ellipse: s-maj=2.6km s-min=1.0km az=17.0.
MOS Error ellipse: s-maj=34.3km s-min=11.0km az=85.0.
ISC VI 04 10 04 21.6–.32 45.40N–.04 91.47E–.03 10 4.5b,3.3s 258 3-146
IDC VI 04 10 04 19.0–.60 45.25N 91.68E 0 4.4,4.2 ¶16556929
ISCJB VI 04 10 04 19.2–.16 45.39N–.03 91.58E–.03 10 4.5b,3.3s
OBM VI 04 10 04 20.6–.17 45.24N 91.62E 2 4.1L,3.3s
BJI VI 04 10 04 20.6 45.23N 91.66E 8 4.5b,4.5L
NEIC VI 04 10 04 21.0–.29 45.30N 91.61E 10 4.8b,4.5L
MOS VI 04 10 04 22.1–1.4 45.33N 91.49E 27 4.9b,4.5L
NNC VI 04 10 04 25.2–3.1 45.30N 91.23E 18–23 4.5b,4.5
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=11.6km az=33.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=19.7.
OBM Error ellipse: s-maj=2.8km s-min=0.8km az=23.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.7km az=188.0.
MOS Error ellipse: s-maj=8.6km s-min=5.2km az=43.2.
NNC Event type se. Error ellipse: s-maj=25.6km s-min=21.0km az=17.0.
IDC VI 20 19 30 03.2–999 44.80N 102.48E 0
¶17206620

IDC Error ellipse: s-maj=2260.0km s-min=272.2km az=131.0.

SEISMIC REGION 29.
Western Asia.

(335) Ural Mountains region.
IDC III 02 09 59 43.5–413 55.65N 61.71E 0
¶17193124

IDC Error ellipse: s-maj=175.8km s-min=117.3km az=11.0.
ISC III 22 02 47 02.5–1.2 60.26N–.08 60.20E–.07 10 22 4-58
IDC III 22 02 47 02.9–1.2 60.32N 59.95E 0 3.6,3.6s ¶16480122
NNC III 22 02 47 12.3–1.0 59.67N 60.79E 0 3.7b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=15.1km az=73.0.
NNC Event type se. Error ellipse: s-maj=8.5km s-min=5.8km az=171.0.
IDC IV 28 02 49 43.2–1.2 60.48N 61.17E 0 3.6,3.5
¶17202273

IDC Error ellipse: s-maj=18.3km s-min=12.1km az=66.0.
ISC VI 21 10 37 39.8–.88 60.27N–.08 60.27E–.09 35 3.8b 15 4-63
IDC VI 21 10 37 37.4–.81 60.23N 60.04E 0 3.8,3.8 ¶17206670
ISCJB VI 21 10 37 38.6–.78 60.16N–.09 60.4E–.20 33 3.8b,2.8s
ISC Event type ke.
ISCJB Event type ke.

(336) Western Kazakhstan.
IDC I 25 13 24 02.4–999 47.93N 50.51E 0
¶17190964

IDC Error ellipse: s-maj=4566.0km s-min=135.1km az=61.0.
IDC II 05 11 30 16.8–999 49.76N 56.11E 0
¶17191733

IDC Error ellipse: s-maj=1249.0km s-min=37.2km az=62.0.
IDC II 05 12 19 39.2–999 48.96N 53.95E 0
¶17191735

IDC Error ellipse: s-maj=1947.0km s-min=74.1km az=60.0.
IDC II 11 11 32 30.8–550 48.22N 50.13E 0
¶17192074

IDC Error ellipse: s-maj=203.3km s-min=120.8km az=57.0.
IDC II 15 13 49 32.5–923 48.93N 53.28E 0
¶17192307

IDC Error ellipse: s-maj=431.5km s-min=77.6km az=63.0.
IDC II 19 12 23 59.1–594 47.21N 49.18E 0
¶17192532

IDC Error ellipse: s-maj=219.2km s-min=127.8km az=48.0.
ISC II 21 09 03 23.3–.60 46.06N–.08 53.59E–.05 35 3.7b 65 5-71
MOS II 21 09 03 20.5–1.7 46.15N 53.47E 25 4.0b ¶16398654
IDC II 21 09 03 20.1–.89 46.18N 53.40E 0 3.8,3.7
ISCJB II 21 09 03 21.4–.43 46.09N–.06 53.51E–.06 33 3.6b,3.7
CSEM II 21 09 03 22.1–.29 46.03N 53.59E 20 3.8b,3.7
NNC II 21 09 03 25.8–6.7 46.21N 54.16E 0 3.7b,3.1
ISC Event type ke.
MOS Error ellipse: s-maj=11.8km s-min=8.5km az=46.1.
IDC Error ellipse: s-maj=17.7km s-min=8.1km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=3.9km az=149.5.
CSEM Event type ke. Error ellipse: s-maj=15.3km s-min=5.7km az=153.0.
NNC Event type se. Error ellipse: s-maj=52.9km s-min=33.9km az=70.0.
IDC II 22 08 56 39.5–729 48.63N 52.80E 0
¶17192689

IDC Error ellipse: s-maj=352.6km s-min=89.0km az=60.0.
IDC III 04 13 53 27.4–999 49.02N 53.87E 0
¶17193234

IDC Error ellipse: s-maj=1773.0km s-min=74.0km az=61.0.
IDC III 04 15 17 05.7–820 48.71N 53.29E 0
¶17193237

IDC Error ellipse: s-maj=394.5km s-min=79.7km az=60.0.
IDC III 07 13 53 12.8–535 48.31N 50.38E 0
¶17193417

IDC Error ellipse: s-maj=198.7km s-min=112.3km az=58.0.
IDC III 07 15 10 38.0–763 48.33N 50.12E 0
¶17193420

IDC Error ellipse: s-maj=271.0km s-min=120.6km az=68.0.
IDC III 08 13 39 19.6–575 47.73N 50.12E 0
¶17193470

IDC Error ellipse: s-maj=224.7km s-min=123.5km az=51.0.
IDC III 08 15 12 15.2–586 47.56N 50.32E 0
¶17193475

IDC Error ellipse: s-maj=222.4km s-min=124.8km az=49.0.
IDC III 09 05 06 49.8–581 47.89N 50.50E 0
¶17193524

IDC Error ellipse: s-maj=216.2km s-min=123.0km az=52.0.
IDC III 12 11 47 55.2–572 47.59N 48.90E 0
¶17194400

IDC Error ellipse: s-maj=209.9km s-min=134.9km az=49.0.
IDC III 14 12 44 30.6–999 47.05N 48.33E 0
¶17195163

IDC Error ellipse: s-maj=5307.0km s-min=156.9km az=59.0.
IDC III 15 12 17 36.0–6.4 47.23N 48.40E 0 3.2,2.8
¶17196137

IDC Error ellipse: s-maj=167.5km s-min=52.2km az=140.0.
IDC III 19 12 36 48.0–561 47.90N 49.64E 0
¶17197234

IDC Error ellipse: s-maj=211.3km s-min=132.7km az=52.0.
IDC III 20 11 06 01.0–586 47.67N 49.77E 0
¶17197357

IDC Error ellipse: s-maj=224.9km s-min=128.6km az=51.0.
IDC III 21 12 06 51.8–587 47.34N 49.36E 0
¶17197583

IDC Error ellipse: s-maj=227.2km s-min=124.7km az=49.0.
IDC III 23 11 06 44.9–573 47.42N 50.06E 0
¶17198177

IDC Error ellipse: s-maj=214.3km s-min=125.6km az=48.0.
IDC III 23 12 54 02.4–999 48.03N 51.30E 0
¶17198197

IDC Error ellipse: s-maj=1867.0km s-min=110.6km az=60.0.
IDC III 23 13 16 49.3–746 48.76N 53.03E 0
¶17198201

IDC Error ellipse: s-maj=362.6km s-min=75.9km az=61.0.
IDC III 24 13 45 04.9–999 49.80N 55.86E 0
¶17198362

IDC Error ellipse: s-maj=1375.0km s-min=35.9km az=66.0.
IDC III 24 14 38 09.1–999 48.35N 51.58E 0
¶17198374

IDC Error ellipse: s-maj=3939.0km s-min=108.2km az=62.0.
IDC III 25 13 56 02.7–544 48.08N 50.46E 0
¶17198424

IDC Error ellipse: s-maj=206.7km s-min=114.0km az=55.0.
IDC III 27 12 10 35.0–523 48.66N 51.39E 0
¶17198788

IDC Error ellipse: s-maj=196.1km s-min=101.9km az=61.0.
IDC III 28 12 59 18.6–999 50.27N 57.52E 0
¶17198950

IDC Error ellipse: s-maj=1621.0km s-min=8.2km az=68.0.
IDC III 30 12 23 12.7–552 48.14N 50.50E 0
¶17199197

IDC Error ellipse: s-maj=199.7km s-min=121.8km az=54.0.
IDC III 31 10 04 33.0–544 48.33N 50.63E 0
¶17199282

IDC Error ellipse: s-maj=192.1km s-min=106.4km az=59.0.
IDC III 31 13 25 36.1–527 48.47N 50.74E 0
¶17199298

IDC Error ellipse: s-maj=188.9km s-min=108.1km az=59.0.
IDC IV 03 10 18 06.8–613 47.42N 50.09E 0
¶17199644

IDC Error ellipse: s-maj=238.1km s-min=122.6km az=49.0.
IDC IV 03 12 10 05.0–599 47.45N 50.36E 0
¶17199653

IDC Error ellipse: s-maj=229.7km s-min=120.5km az=49.0.
IDC IV 06 13 50 02.0–601 47.46N 48.58E 0
¶17200010

IDC Error ellipse: s-maj=221.3km s-min=139.2km az=49.0.
IDC IV 07 11 47 19.1–600 47.34N 48.72E 0
¶17200104

IDC Error ellipse: s-maj=223.8km s-min=133.0km az=49.0.
IDC IV 07 14 03 54.6–590 47.34N 48.78E 0
¶17200121

IDC Error ellipse: s-maj=218.6km s-min=133.9km az=48.0.
IDC IV 10 08 42 22.0–556 47.66N 49.14E 0
¶17200438

IDC Error ellipse: s-maj=211.0km s-min=126.8km az=51.0.
IDC IV 11 08 30 46.1–550 47.97N 49.06E 0
¶17200540

IDC Error ellipse: s-maj=202.8km s-min=128.3km az=54.0.
IDC IV 13 13 31 49.3–544 48.01N 48.50E 0
¶17200901

IDC Error ellipse: s-maj=204.9km s-min=134.1km az=53.0.
IDC IV 14 12 53 15.6–470 47.79N 48.62E 0
¶17201027

IDC Error ellipse: s-maj=297.5km s-min=128.5km az=169.0.
IDC IV 15 12 37 35.0–343 47.43N 48.24E 0
¶17201133

IDC Error ellipse: s-maj=168.5km s-min=114.9km az=16.0.
IDC IV 16 10 37 14.7–326 47.88N 49.35E 0
¶17201209

IDC Error ellipse: s-maj=140.5km s-min=107.5km az=19.0.
IDC IV 16 11 28 32.3–336 47.63N 49.00E 0
¶17201213

IDC Error ellipse: s-maj=147.3km s-min=109.5km az=16.0.
IDC IV 17 11 07 01.7–590 47.40N 48.66E 0
¶17201311

IDC Error ellipse: s-maj=218.1km s-min=135.6km az=48.0.
IDC IV 17 13 22 40.6–597 47.32N 48.92E 0
¶17201321

IDC Error ellipse: s-maj=222.7km s-min=133.6km az=48.0.
IDC V 04 15 13 17.8–408 47.56N 48.82E 0
¶17202768

IDC Error ellipse: s-maj=160.4km s-min=132.8km az=28.0.
IDC V 05 15 06 36.9–597 47.35N 48.42E 0
¶17202856

IDC Error ellipse: s-maj=221.6km s-min=136.6km az=48.0.
IDC V 08 12 03 18.6–618 47.38N 48.27E 0
¶17203045

IDC Error ellipse: s-maj=233.9km s-min=137.6km az=49.0.
IDC V 14 11 20 25.4–368 47.22N 48.44E 0
¶17203605

IDC Error ellipse: s-maj=178.2km s-min=121.5km az=18.0.
IDC V 15 12 59 38.1–358 47.45N 49.40E 0
¶17203693

IDC Error ellipse: s-maj=166.8km s-min=114.8km az=24.0.
IDC V 15 13 55 25.9–370 47.28N 49.18E 0
¶17203696

IDC Error ellipse: s-maj=181.1km s-min=120.9km az=16.0.
IDC V 16 15 32 28.6–416 47.36N 48.37E 0
¶17203757

IDC Error ellipse: s-maj=164.5km s-min=135.9km az=26.0.
IDC V 20 17 24 31.3–410 47.46N 48.29E 0
¶17204060

IDC Error ellipse: s-maj=162.0km s-min=136.0km az=25.0.
IDC V 20 19 14 10.6–757 46.11N 62.93E 0
¶17204072

IDC Error ellipse: s-maj=282.9km s-min=112.3km az=150.0.
IDC VI 07 20 19 11.6–999 47.08N 62.43E 0
¶17205511

IDC Error ellipse: s-maj=1674.0km s-min=98.0km az=140.0.

(337) Eastern Caucasus.
ISC I 04 21 28 59.7–1.1 42.05N–.02 45.76E–.01 8–9 160 1-34
NSSP I 04 21 28 56.5 42.00N 46.02E 5 2.7s ¶15968905
TIF I 04 21 28 59.0 42.06N 45.75E 12–1 2.7s
CSEM I 04 21 28 59.6–.15 42.05N 45.73E 2 3.6L
MOS I 04 21 29 00.3–.71 42.06N 45.75E 9 4.1b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=163.0.
MOS Error ellipse: s-maj=6.2km s-min=5.5km az=98.2.
ISC I 11 02 13 24.7–1.0 42.10N–.02 45.52E–.02 24–12 121 1-17
NSSP I 11 02 13 21.0 41.77N 45.97E 10 3.0s ¶17216297
TIF I 11 02 13 22.9 42.12N 45.55E 24–0 3.0s
ISCJB I 11 02 13 23.2–.39 42.13N–.02 45.54E–.02 5–3 3.0s
CSEM I 11 02 13 23.7–.17 42.12N 45.54E 10 3.7b
MOS I 11 02 13 24.3–.77 42.04N 45.49E 22 3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=163.7.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=158.0.
MOS Error ellipse: s-maj=7.9km s-min=5.9km az=110.5.
ISC I 12 16 11 28.0–.95 43.22N–.03 46.17E–.02 14–8 112 0-11
ISCJB I 12 16 11 26.5–.48 43.30N–.03 46.20E–.03 1–4 ¶17216299
CSEM I 12 16 11 27.3–.23 43.27N 46.16E 2 3.8b
TIF I 12 16 11 27.2 43.42N 46.12E 22–1 3.8b
MOS I 12 16 11 27.3–1.4 43.30N 46.24E 16 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=2.6km az=32.8.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=2.6km az=29.0.
MOS Error ellipse: s-maj=6.8km s-min=5.5km az=133.4.
ISC I 12 22 05 38.8–1.1 43.33N–.02 46.17E–.02 8–8 4.0b 214 0-49
TIF I 12 22 05 37.3 43.38N 46.23E 13–1 4.0b ¶16395642
CSEM I 12 22 05 38.7–.18 43.39N 46.19E 2 3.9b
AZER I 12 22 05 38.8–2.0 43.32N 45.83E 6 3.9b
IDC I 12 22 05 38.5–.70 43.44N 45.82E 0 3.8,3.8b
MOS I 12 22 05 39.4–1.3 43.40N 46.22E 18 4.1b,3.8b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.9km az=29.0.
AZER Error ellipse: s-maj=15.7km s-min=13.3km az=105.0.
IDC Error ellipse: s-maj=11.8km s-min=9.6km az=129.0.
MOS Error ellipse: s-maj=5.5km s-min=5.0km az=88.0.
ISC I 12 22 32 06.8–1.0 43.26N–.03 46.20E–.02 10–7 174 0-45

TIF I 12 22 32 04.4 43.44N 46.24E 18–6 ¶17216300
AZER I 12 22 32 05.8–.17 43.12N 46.01E 10
CSEM I 12 22 32 06.4–.21 43.30N 46.16E 2 3.8b
MOS I 12 22 32 06.1–.90 43.32N 46.21E 9 3.8b
ISC Event type ke.
AZER Error ellipse: s-maj=7.4km s-min=5.5km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.3km az=26.0.
MOS Error ellipse: s-maj=6.4km s-min=5.1km az=43.2.
ISC I 12 22 34 28.8–1.0 43.23N–.03 46.20E–.02 10–8 115 0-19
TIF I 12 22 34 25.2 43.37N 46.24E 9–1 ¶17216301
CSEM I 12 22 34 28.2–.25 43.28N 46.17E 2 3.6b
MOS I 12 22 34 28.8–1.5 43.24N 46.22E 17 3.6b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=2.5km az=23.0.
MOS Error ellipse: s-maj=7.2km s-min=5.7km az=35.1.
ISC I 13 02 50 12.6–.75 43.44N–.02 46.40E–.01 11–4 4.2b,3.3s 439 1-73
BJI I 13 02 50 09.8 43.68N 46.36E 10 4.7b,4.6b ¶15925932
TIF I 13 02 50 09.8 43.51N 46.40E 14–2 4.7b,4.6b
ISCJB I 13 02 50 10.8–.36 43.49N–.01 46.41E–.02 3–2 4.0b,3.4s
IDC I 13 02 50 10.2–.54 43.17N 46.20E 0 4.1,4.0
NEIC I 13 02 50 11.9–.31 43.25N 46.23E 10 4.1b,4.0
MOS I 13 02 50 13.2–1.2 43.43N 46.38E 22 4.1b,4.0
AZER I 13 02 50 13.8–2.9 43.04N 46.14E 2 4.1b,4.0
CSEM I 13 02 50 14.7–.11 43.44N 46.29E 20 4.1b,4.0
NNC I 13 02 50 31.2–9.0 44.55N 46.54E 138–50 3.9b,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=137.2.
IDC Error ellipse: s-maj=10.6km s-min=7.8km az=161.0.
NEIC Event type fe. Error ellipse: s-maj=7.0km s-min=4.6km az=169.0. Felt [V] at Kurchaloy, Mayrtup and Oyskhara.
MOS Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=124.5. Felt(IV-V) at Kurchaloy, Oyskhara, Mayrtup. Moment Tensor Solution.
AZER Error ellipse: s-maj=3.8km s-min=1.5km az=356.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=49.0.
NNC Event type se. Error ellipse: s-maj=111.6km s-min=75.4km az=135.0.
ISC I 13 03 22 44.3–1.1 43.27N–.03 46.28E–.02 6–9 125 0-26
IDC I 13 03 22 32.8–2.7 42.15N 46.28E 0 3.8,3.7 ¶16395654
TIF I 13 03 22 40.8 43.39N 46.42E 12–2 3.8,3.7
CSEM I 13 03 22 43.6–.24 43.32N 46.27E 2 3.8b,3.7
MOS I 13 03 22 45.6–1.5 43.28N 46.30E 29 3.8b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=94.5km s-min=17.9km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.2km az=29.0.
MOS Error ellipse: s-maj=6.7km s-min=6.0km az=31.0.
ISC I 14 04 27 22.7–1.1 43.33N–.02 46.30E–.02 6–8 3.4b 229 0-49
TIF I 14 04 27 20.5 43.40N 46.41E 12–2 3.4b ¶16395782
IDC I 14 04 27 20.7–.90 43.32N 46.05E 0 3.7,3.6
CSEM I 14 04 27 22.3–.16 43.40N 46.31E 2 3.9b,3.6
ISCJB I 14 04 27 23.2–.45 43.43N–.02 46.37E–.02 16–4 3.5b,3.3s
AZER I 14 04 27 23.4–.08 43.03N 45.96E 6–5 3.5b,3.3s
MOS I 14 04 27 23.6–1.9 43.38N 46.36E 23 4.1b,3.3s
NNC I 14 04 27 37.8–4.3 45.21N 46.48E 0 3.8b,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=17.1km s-min=11.0km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=22.9.
AZER Error ellipse: s-maj=7.7km s-min=5.1km az=281.0.
MOS Error ellipse: s-maj=5.6km s-min=4.8km az=119.3.
NNC Event type se. Error ellipse: s-maj=92.6km s-min=31.2km az=143.0.
ISC I 14 12 27 36.6–1.1 41.16N–.02 46.30E–.01 4–9 3.4b 199 1-26
NSSP I 14 12 27 36.0 41.17N 46.23E 15 3.8s ¶15928094
AZER I 14 12 27 36.9–.02 41.19N 46.30E 10 3.8s
MOS I 14 12 27 37.2–1.1 40.99N 46.41E 13 3.7b
IDC I 14 12 27 38.4–2.8 41.69N 46.75E 0 3.4,3.4
TIF I 14 12 27 38.0 41.21N 46.31E 17–0 3.4,3.4
CSEM I 14 12 27 38.9–.16 41.19N 46.35E 10 3.7b,3.4
NNC I 14 12 27 45.2–3.3 41.60N 47.51E 0 3.4b,3.4
TEH I 14 12 27 49.9 40.71N 46.42E 8 3.3L,3.4
ISC Event type ke.
AZER Error ellipse: s-maj=1.5km s-min=0.9km az=1.0.
MOS Error ellipse: s-maj=8.3km s-min=5.1km az=96.3.
IDC Error ellipse: s-maj=75.1km s-min=16.6km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=22.0.
NNC Event type se. Error ellipse: s-maj=57.7km s-min=25.8km az=115.0.
ISC I 17 09 15 33.9–.89 43.43N–.05 45.67E–.03 120–8 99 1-13
TIF I 17 09 15 33.8 43.35N 45.85E 32–0 ¶17216304
ISCJB I 17 09 15 35.0–.70 43.38N–.05 45.65E–.04 116–7
CSEM I 17 09 15 34.9–.23 43.40N 45.65E 115–3 3.8b
MOS I 17 09 15 36.4–.72 43.31N 45.61E 98 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.2km az=4.4.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.3km az=6.0.
MOS Error ellipse: s-maj=10.1km s-min=7.8km az=133.7.
ISC I 22 10 54 29.3–.97 42.70N–.02 46.21E–.01 11–7 190 0-22
TIF I 22 10 54 27.5 42.70N 46.17E 12–1 ¶16451928
CSEM I 22 10 54 28.8–.13 42.69N 46.20E 2 4.1b
MOS I 22 10 54 28.1–1.3 42.70N 46.22E 7 4.1b
AZER I 22 10 54 30.8–.63 42.24N 45.84E 2 4.1b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=17.0.
MOS Event type fe. Error ellipse: s-maj=5.9km s-min=4.3km az=29.6. Felt (III-IV) at Botlikh. Moment Tensor Solution.
AZER Error ellipse: s-maj=1.8km s-min=0.6km az=338.0.
ISC I 24 13 57 13.1–1.2 43.51N–.03 45.45E–.02 2–10 95 0-6
ISCJB I 24 13 57 12.7–.65 43.57N–.04 45.54E–.03 9–4 ¶17267644
CSEM I 24 13 57 13.4–.44 43.54N 45.50E 10 3.8b
TIF I 24 13 57 13.8 43.48N 45.48E 23–2 3.8b
MOS I 24 13 57 14.6–.84 43.46N 45.44E 11 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=2.9km az=17.4.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=3.9km az=16.0.
MOS Error ellipse: s-maj=7.6km s-min=6.4km az=15.2.
IDC I 25 14 19 31.4–6.5 43.36N 45.29E 0
¶17190968
IDC Error ellipse: s-maj=178.8km s-min=43.1km az=11.0.
ISC I 26 14 04 11.5–.95 43.51N–.04 46.00E–.03 134–5 156 0-19
CSEM I 26 14 04 10.3–.25 43.56N 46.02E 136–3 3.9b ¶16461078
ISCJB I 26 14 04 11.6–.62 43.47N–.04 45.98E–.03 131–4 3.9b
AZER I 26 14 04 12.0–.06 43.33N 46.00E 26–9 3.9b
MOS I 26 14 04 12.2–.77 43.43N 45.96E 122 3.9b
TIF I 26 14 04 12.9 43.24N 46.25E 33–1 3.9b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.0km az=25.1.
AZER Error ellipse: s-maj=42.0km s-min=7.1km az=331.0.
MOS Error ellipse: s-maj=9.8km s-min=8.4km az=25.0.
IDC I 28 12 49 33.2–6.1 43.81N 45.50E 0
¶17191194
IDC Error ellipse: s-maj=227.6km s-min=42.2km az=177.0.
ISC I 30 20 10 48.4–.84 43.42N–.03 45.93E–.02 12–5 132 0-23
CSEM I 30 20 10 47.4–.24 43.45N 45.92E 2 4.0b ¶16484113
MOS I 30 20 10 47.8–.68 43.41N 45.90E 12 4.0b
TIF I 30 20 10 50.0 43.27N 45.68E 18–3 4.0b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.1km az=16.0.
MOS Error ellipse: s-maj=6.0km s-min=5.9km az=5.2.
ISC I 30 23 18 14.9–1.1 42.59N–.02 45.37E–.01 3–9 135 1-24
TIF I 30 23 18 14.0 42.64N 45.40E 12–3 ¶17267645
ISCJB I 30 23 18 14.7–.32 42.62N–.02 45.40E–.02 3–3
CSEM I 30 23 18 15.0–.16 42.59N 45.37E 2 3.9b
MOS I 30 23 18 15.6–1.4 42.58N 45.35E 16 3.9b

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=18.1.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=11.0.
MOS Error ellipse: s-maj=6.5km s-min=5.5km az=133.2.
ISC II 10 18 00 20.4–.94 43.30N–.03 46.04E–.02 10–7 126 0-19
TIF II 10 18 00 18.0 43.38N 46.16E 16–4 ¶16506094
ISCJB II 10 18 00 20.6–.59 43.42N–.03 46.10E–.03 15–5
MOS II 10 18 00 21.3–.98 43.26N 45.97E 17 4.1b
CSEM II 10 18 00 21.6–.28 43.38N 46.04E 20 4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=16.7.
MOS Error ellipse: s-maj=7.6km s-min=5.9km az=20.8.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.3km az=14.0.
ISC II 15 11 00 56.8–.94 42.85N–.02 46.28E–.02 30–9 168 0-19
CSEM II 15 11 00 53.7–.19 42.95N 46.39E 20 4.1b ¶16524972
AZER II 15 11 00 53.0–.09 42.70N 46.42E 16–8 4.1b
MOS II 15 11 00 55.4–.94 42.90N 46.20E 27 4.1b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=2.9km az=38.0.
AZER Error ellipse: s-maj=12.2km s-min=4.2km az=358.0.
MOS Error ellipse: s-maj=8.7km s-min=5.3km az=27.8.
ISC II 28 10 54 14.8–.41 40.91N–.02 47.75E–.02 61–4 4.1b 401 0-76
BJI II 28 10 54 04.1 41.01N 47.19E 5 4.8b,4.4b ¶16165898
IDC II 28 10 54 08.4–.63 41.02N 47.82E 0 4.1,4.0L
NSSP II 28 10 54 12.0 40.72N 47.65E 41 4.2s,4.0L
AZER II 28 10 54 14.2–.02 40.85N 47.72E 42–0 4.2s,4.0L
CSEM II 28 10 54 14.9–.11 40.95N 47.89E 64–1 4.3b,4.0L
MOS II 28 10 54 14.3–1.3 40.99N 47.88E 72 4.3b,4.0L
TEH II 28 10 54 14.0 40.86N 47.71E 41 4.5L,4.0L
ISCJB II 28 10 54 14.3–.14 40.91N–.01 47.81E–.02 75–1 4.0b,4.0L
NEIC II 28 10 54 15.1–.41 41.00N 47.83E 60–5 4.3b,4.0L
NNC II 28 10 54 23.6–1.1 41.50N 48.95E 49–10 4.1b,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=12.3km s-min=7.8km az=179.0.
AZER Error ellipse: s-maj=1.0km s-min=0.7km az=1.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=41.0.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=120.8.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=37.4.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.6km az=195.0.
NNC Event type se. Error ellipse: s-maj=9.3km s-min=6.4km az=109.0.
ISC III 02 22 13 56.6–1.0 42.61N–.01 45.46E–.01 6–8 241 1-24
TIF III 02 22 13 56.5 42.58N 45.50E 13–1 ¶16176417
MOS III 02 22 13 57.2–.79 42.61N 45.50E 11 4.5b
CSEM III 02 22 13 57.3–.13 42.64N 45.49E 2 4.5b
AZER III 02 22 13 57.1–.07 42.42N 45.36E 9–2 4.5b
ISC Event type ke.
MOS Error ellipse: s-maj=6.2km s-min=4.4km az=35.7.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=26.0.
AZER Error ellipse: s-maj=7.0km s-min=2.9km az=314.0.
ISC III 03 03 44 52.4–.86 42.67N–.02 46.22E–.02 3–6 128 0-23
TIF III 03 03 44 52.7 42.66N 46.16E 7–5 ¶600784131
MOS III 03 03 44 53.1–.74 42.70N 46.25E 10 4.1b
CSEM III 03 03 44 53.5–.13 42.65N 46.19E 2 4.1b
ISC Event type ke.
MOS Error ellipse: s-maj=7.1km s-min=5.0km az=32.3.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.1km az=14.0.
ISC III 03 15 11 53.8–.95 43.29N–.02 45.71E–.01 9–7 138 0-23
MOS III 03 15 11 53.7–.84 43.32N 45.73E 15 4.0b ¶17338207
ISCJB III 03 15 11 53.2–.41 43.32N–.03 45.74E–.02 1–3 3.7b
CSEM III 03 15 11 53.6–.26 43.31N 45.73E 5 4.0b
TIF III 03 15 11 54.5 43.19N 45.64E 21–1 4.0b
ISC Event type ke.
MOS Error ellipse: s-maj=6.3km s-min=5.5km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=2.1km az=17.7.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=2.7km az=18.0.
ISC III 03 16 52 28.4–1.1 43.29N–.03 45.70E–.02 4–9 101 0-23
MOS III 03 16 52 28.7–.75 43.30N 45.72E 13 3.9b ¶17338208
TIF III 03 16 52 28.7 43.29N 45.78E 21–1 3.9b
ISCJB III 03 16 52 28.2–.44 43.33N–.04 45.76E–.02 7–3 3.2b
CSEM III 03 16 52 29.1–.21 43.25N 45.72E 10 3.9b
ISC Event type ke.
MOS Error ellipse: s-maj=8.5km s-min=5.4km az=27.3.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=2.3km az=17.3.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=2.3km az=18.0.
ISC III 03 23 52 56.3–1.2 41.50N–.03 46.43E–.02 8–10 105 1-3
NSSP III 03 23 52 54.3 41.53N 46.25E 10 3.0s ¶17338210
TIF III 03 23 52 55.5 41.47N 46.42E 19–1 3.0s
CSEM III 03 23 52 57.3–.34 41.54N 46.44E 2 2.6L
MOS III 03 23 52 58.0–1.3 41.53N 46.52E 16 3.9b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.0km az=153.0.
MOS Error ellipse: s-maj=9.2km s-min=5.9km az=102.3.
ISC III 04 00 31 36.6–2.9 41.56N–.06 46.5E–.10 19–3 25 1-2
NSSP III 04 00 31 33.9 41.52N 46.40E 10 3.1s ¶600084514
CSEM III 04 00 31 35.8–1.2 41.61N 46.54E 2 2.7L
TIF III 04 00 31 35.3 41.47N 46.41E 10–1 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=23.1km s-min=17.8km az=64.0.
ISC III 04 20 06 45.2–.92 40.17N–.02 49.05E–.02 29–6 3.6b 142 0-77
IDC III 04 20 06 40.8–.97 40.26N 49.04E 0 3.7,3.6 ¶16484366
THR III 04 20 06 42.1–.35 40.19N 49.15E 14–8 3.5L,3.6
TEH III 04 20 06 45.5 40.14N 48.96E 33 3.5L,3.6
AZER III 04 20 06 45.6–.02 40.15N 49.01E 34–0 3.5L,3.6
CSEM III 04 20 06 46.0–.16 40.19N 49.15E 30 3.5L,3.6
NNC III 04 20 06 52.2–3.0 40.83N 49.32E 42–24 3.5b,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=20.2km s-min=9.3km az=6.0.
THR Error ellipse: s-maj=7.5km s-min=8.5km az=-1.0.
AZER Error ellipse: s-maj=1.1km s-min=0.9km az=271.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=54.0.
NNC Event type se. Error ellipse: s-maj=43.2km s-min=20.8km az=112.0.
ISC III 06 21 41 40.9–1.0 42.39N–.01 45.01E–.02 19–2 123 0-2
MOS III 06 21 41 40.6–.53 42.38N 44.99E 13 3.9b ¶17338211
CSEM III 06 21 41 40.5–.16 42.41N 45.04E 10 2.8L
TIF III 06 21 41 40.6 42.38N 45.00E 18–1 2.8L
ISCJB III 06 21 41 41.8–.33 42.38N–.02 45.03E–.03 21–4 2.8L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 07 21 08 29.2–1.3 42.89N–.03 47.94E–.03 4–9 114 1-25
IDC III 07 21 08 29.9–1.4 43.32N 47.78E 0 3.1,3.0 ¶16484572
CSEM III 07 21 08 31.5–.39 42.71N 48.32E 10 4.0b,3.0
MOS III 07 21 08 34.1–2.0 42.62N 47.98E 17 4.0b,3.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=13.4km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=7.3km az=137.0.
MOS Error ellipse: s-maj=8.1km s-min=6.3km az=27.6.
ISC III 09 01 10 58.4–.83 42.89N–.03 47.03E–.03 17–5 107 0-4
CSEM III 09 01 10 57.3–.40 42.93N 47.11E 2 3.9b ¶17338212
MOS III 09 01 10 57.8–.97 42.86N 47.03E 12 3.9b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=3.9km az=42.0.
MOS Error ellipse: s-maj=7.7km s-min=6.6km az=126.6.
ISC III 14 06 26 48.9–1.1 42.88N–.02 46.36E–.02 5–9 159 0-21
AZER III 14 06 26 48.2–.10 42.68N 46.05E 7–3 ¶16591707
TIF III 14 06 26 48.6 42.82N 46.34E 10–0
CSEM III 14 06 26 49.9–.21 42.87N 46.31E 2 4.4b
MOS III 14 06 26 49.0–1.5 42.93N 46.42E 12 4.4b
ISC Event type ke.
AZER Error ellipse: s-maj=6.4km s-min=3.1km az=346.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.0km az=35.0.

MOS Error ellipse: s-maj=7.9km s-min=5.5km az=15.9.
ISC III 14 07 52 13.7–.72 40.28N–.02 49.19E–.02 18–3 4.4b 390 0-135
IDC III 14 07 52 10.5–.52 40.28N 48.98E 0 4.4,4.4b **¶16314285**
THR III 14 07 52 12.8–.68 40.21N 49.13E 14–12 3.9L,4.4b
MOS III 14 07 52 12.3–1.2 40.23N 49.22E 21 4.8b,4.4b
AZER III 14 07 52 15.3–.57 40.27N 49.05E 14–0 4.8b,4.4b
NEIC III 14 07 52 15.7–.35 40.28N 49.12E 35 4.4b,4.4b
CSEM III 14 07 52 16.0–.11 40.27N 49.18E 40 4.6b,4.4b
TEH III 14 07 52 17.0 40.12N 49.22E 40 4.4L,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=11.7km s-min=7.2km az=177.0.
THR Error ellipse: s-maj=7.8km s-min=8.1km az=-1.0.
MOS Error ellipse: s-maj=5.5km s-min=4.1km az=130.5.
AZER Error ellipse: s-maj=1.0km s-min=0.9km az=330.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.6km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=19.0.
ISC III 14 08 14 41.7–.36 40.28N–.02 49.12E–.02 16 4.1b 228 0-113
IDC III 14 08 14 37.9–.84 40.25N 49.02E 0 4.1,4.0 **¶16477773**
BJI III 14 08 14 38.0 40.30N 49.00E 5 4.3b,4.0
ISCJB III 14 08 14 40.5–.23 40.32N–.02 49.37E–.02 16 4.0b,4.0
MOS III 14 08 14 40.6–1.4 40.22N 49.31E 25 4.4b,4.0
AZER III 14 08 14 41.3–.64 40.29N 49.00E 4–0 4.4b,4.0
TEH III 14 08 14 42.8 40.30N 48.99E 11 4.0L,4.0
CSEM III 14 08 14 43.2–.14 40.28N 49.24E 30 4.3b,4.0
NEIC III 14 08 14 43.6–.68 40.38N 49.09E 35 4.0b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=8.7km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=171.1.
MOS Error ellipse: s-maj=7.6km s-min=5.0km az=130.7.
AZER Error ellipse: s-maj=1.4km s-min=0.8km az=359.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=174.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=6.6km az=175.0.
ISC III 14 08 26 40.5–1.0 40.25N–.02 49.27E–.04 33–6 3.8b 109 0-77
IDC III 14 08 26 35.1–1.4 40.10N 49.13E 0 3.9,3.8 **¶17195108**
MOS III 14 08 26 36.8–1.2 40.24N 49.32E 15 4.0b,3.8
AZER III 14 08 26 39.4–.90 40.27N 49.22E 34–0 4.0b,3.8
ISCJB III 14 08 26 40.3–.40 40.30N–.03 49.32E–.04 44–6 3.7b,3.8
CSEM III 14 08 26 40.5–.21 40.29N 49.30E 30 4.1b,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=12.2km az=170.0.
MOS Error ellipse: s-maj=13.7km s-min=10.2km az=111.7.
AZER Error ellipse: s-maj=2.0km s-min=0.9km az=260.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=151.3.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.3km az=113.0.
ISC III 14 20 57 59.8–.97 40.28N–.02 49.14E–.02 32–8 4.2b 217 0-77
IDC III 14 20 57 55.8–.66 40.39N 49.05E 0 4.0,4.0b **¶16442371**
AZER III 14 20 57 57.9–.06 40.29N 49.18E 20–0 4.0,4.0b
BJI III 14 20 57 57.0 40.30N 49.20E 19 4.7b,4.5b
MOS III 14 20 57 57.5–1.1 40.50N 49.30E 16 4.6b,4.5b
THR III 14 20 57 59.9–.36 40.10N 49.19E 36–7 3.8L,4.5b
CSEM III 14 20 58 00.8–.13 40.29N 49.15E 40 4.3b,4.5b
NEIC III 14 20 58 00.3–.74 40.33N 49.12E 32–6 4.1b,4.5b
NNC III 14 20 58 06.5–7.4 40.42N 50.98E 0 4.1b,4.5b
DDA III 14 20 59 00.5 41.77N 39.30E 48 4.1b,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=12.9km s-min=7.4km az=7.0.
AZER Error ellipse: s-maj=2.4km s-min=1.0km az=252.0.
MOS Error ellipse: s-maj=7.8km s-min=6.5km az=41.4.
THR Error ellipse: s-maj=5.3km s-min=2.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=2.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=4.8km az=184.0.
NNC Event type se. Error ellipse: s-maj=124.6km s-min=63.4km az=107.0.
MOS III 16 14 22 59.1–.79 40.85N 48.23E 21 3.9b
CSEM III 16 14 22 59.0 40.85N 48.23E 21 3.9b **¶600114378**
MOS Error ellipse: s-maj=39.4km s-min=12.6km az=108.8.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 17 19 03 49.6–1.5 43.03N–.04 46.23E–.04 12–10 74 0-2
TIF III 17 19 03 48.6 43.15N 46.34E 81–1 **¶600114380**
CSEM III 17 19 03 49.0 43.13N 46.30E 70 3.9b
MOS III 17 19 03 49.4–.72 43.13N 46.30E 70 3.9b
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MOS Error ellipse: s-maj=13.1km s-min=8.8km az=6.7.
ISC III 21 14 33 22.3–1.4 41.09N–.05 46.19E–.06 11–12 30 1-3
NSSP III 21 14 33 16.9 40.97N 46.38E 10 3.0s **¶600084518**
TIF III 21 14 33 20.1 41.11N 46.29E 16–2 3.0s
CSEM III 21 14 33 22.0–.71 41.12N 46.19E 2 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=20.3km s-min=8.3km az=57.0.
ISC III 23 23 16 08.4–1.1 41.70N–.01 45.51E–.01 0–9 234 0-24
NSSP III 23 23 16 07.2 41.60N 45.52E 12 3.3s **¶600084519**
CSEM III 23 23 16 09.7–.12 41.75N 45.53E 10 3.3L
TIF III 23 23 16 09.3 41.73N 45.48E 26–1 3.3L
AZER III 23 23 16 09.1–.69 41.62N 45.61E 15 3.3L
MOS III 23 23 16 09.8–.77 41.68N 45.51E 18 4.0b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=30.0.
AZER Error ellipse: s-maj=1.9km s-min=0.9km az=322.0.
MOS Error ellipse: s-maj=6.5km s-min=4.9km az=101.1.
ISC III 24 22 50 46.4–2.8 41.35N–.06 46.2E–.10 3–13 14 1-2
NSSP III 24 22 50 47.1 41.30N 45.97E 10 3.2s **¶600084521**
ISC Event type ke.
ISC IV 04 12 16 02.5–1.0 41.34N–.02 46.04E–.02 22–13 93 1-2
NSSP IV 04 12 15 59.5 41.35N 45.98E 10 3.1s **¶600084526**
ISCJB IV 04 12 16 02.9–.53 41.34N–.02 46.05E–.03 23–5 3.1s
CSEM IV 04 12 16 02.8–.49 41.32N 46.06E 26–5 3.2L
TIF IV 04 12 16 02.5 41.44N 46.04E 29–1 3.2L
MOS IV 04 12 16 03.3–.85 41.41N 46.01E 22 4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=42.8.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=45.0.
MOS Error ellipse: s-maj=10.3km s-min=7.1km az=94.8.
ISC IV 09 08 11 20.4–.96 42.15N–.02 47.22E–.02 8–8 119 0-4
AZER IV 09 08 11 19.0–1.1 42.06N 47.17E 12–0 **¶600252327**
CSEM IV 09 08 11 20.8–.18 42.12N 47.24E 2 4.1b
TIF IV 09 08 11 20.0 42.25N 47.27E 23–1 4.1b
MOS IV 09 08 11 20.1–1.5 42.20N 47.32E 10 4.1b
ISC Event type ke.
AZER Error ellipse: s-maj=1.9km s-min=1.3km az=343.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.0km az=46.0.
MOS Error ellipse: s-maj=10.9km s-min=6.3km az=42.5.
ISC IV 11 03 59 48.2–.69 42.18N–.02 47.64E–.02 18–4 3.4b 174 0-75
IDC IV 11 03 59 44.6–1.0 42.14N 47.56E 0 3.5,3.4 **¶16706356**
AZER IV 11 03 59 45.6–.09 42.05N 47.47E 8–0 3.5,3.4
TIF IV 11 03 59 46.1 42.36N 47.70E 21–2 3.5,3.4
MOS IV 11 03 59 46.1–1.3 42.13N 47.73E 10 3.8b,3.4
ISCJB IV 11 03 59 47.5–.40 42.24N–.02 47.72E–.03 16–3 3.2b,3.4
CSEM IV 11 03 59 47.7–.18 42.26N 47.72E 10 3.8b,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=14.9km s-min=9.9km az=165.0.
AZER Error ellipse: s-maj=1.6km s-min=1.0km az=4.0.
MOS Error ellipse: s-maj=8.5km s-min=5.1km az=35.6.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.6km az=44.7.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=40.0.
ISC V 04 05 59 43.2–1.1 43.41N–.03 45.78E–.02 10–8 107 0-73
ISCJB V 04 05 59 40.7–.53 43.55N–.03 45.81E–.03 1–3 3.3b **¶602092245**
CSEM V 04 05 59 43.0 43.49N 45.76E 24 4.1b
MOS V 04 05 59 43.5–.87 43.49N 45.76E 24 4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=2.7km az=19.4.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

MOS Error ellipse: s-maj=7.4km s-min=6.1km az=26.7.
ISC V 05 10 11 43.5–1.1 43.09N–.03 47.26E–.02 4–8 3.5b 204 0-120
IDC V 05 10 11 41.4–.92 42.99N 47.15E 0 3.6,3.5 **¶16708898**
MOS V 05 10 11 43.7–1.1 43.02N 47.30E 11 4.1b,3.5
CSEM V 05 10 11 44.9–.23 43.03N 47.23E 2 3.7L,3.5
AZER V 05 10 11 44.4–45 43.08N 46.93E 24 3.7L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=14.1km s-min=9.4km az=2.0.
MOS Error ellipse: s-maj=6.2km s-min=5.5km az=59.6.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=38.0.
AZER Error ellipse: s-maj=15.2km s-min=11.0km az=3.0.
ISC V 10 07 56 39.3–1.8 41.87N–.07 46.62E–.08 12–11 32 1-2
NSSP V 10 07 56 38.8 41.75N 46.53E 10 2.9s **¶600084537**
CSEM V 10 07 56 40.2–.72 42.05N 46.61E 20 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.4km s-min=7.8km az=26.0.
ISC V 12 07 32 10.1–3.9 40.3N–.20 47.43E–.09 35 31 1-4
MOS V 12 07 32 07.2–.44 40.20N 47.36E 19 4.1b **¶600743980**
CSEM V 12 07 32 10.4–1.2 40.49N 47.36E 10 4.1b
TIF V 12 07 32 10.5 40.46N 47.30E 27–4 4.1b
ISC Event type ke.
MOS Error ellipse: s-maj=30.0km s-min=12.9km az=101.1.
CSEM Event type ke. Error ellipse: s-maj=26.9km s-min=8.4km az=161.0.
ISC V 12 11 33 42.7–1.5 43.25N–.04 45.51E–.03 99–9 108 0-3
ISCJB V 12 11 33 41.8–.71 43.29N–.05 45.57E–.03 98–7 **¶600743981**
CSEM V 12 11 33 41.7–.19 43.32N 45.56E 100 4.0b
MOS V 12 11 33 42.8–.97 43.22N 45.47E 84 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=3.3km az=19.7.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.6km az=18.0.
MOS Error ellipse: s-maj=10.6km s-min=6.9km az=31.1.
TIF V 17 19 41 42.3 42.63N 45.94E 27–1
CSEM V 17 19 41 42.3 42.63N 45.94E 0 1.7L **¶601269913**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 21 27 06.2–.95 40.92N–.02 48.36E–.02 6–8 129 0-4
AZER V 21 21 27 04.6–.00 40.93N 48.44E 13 **¶600853646**
CSEM V 21 21 27 06.1–.16 40.94N 48.36E 5 4.2b
MOS V 21 21 27 07.2–2.9 41.06N 48.29E 13 4.2b
ISC Event type ke.
AZER Error ellipse: s-maj=0.6km s-min=0.2km az=279.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=64.0.
MOS Error ellipse: s-maj=25.4km s-min=7.2km az=113.8.
ISC V 29 10 44 38.1–.91 41.15N–.02 47.05E–.02 33–2 3.3b 204 0-48
IDC V 29 10 44 32.4–1.1 41.10N 47.19E 0 3.5,3.4b **¶17204689**
NSSP V 29 10 44 34.1 41.05N 46.88E 10 3.4s,3.4b
MOS V 29 10 44 35.6–.98 41.08N 46.95E 10 3.9b,3.4b
AZER V 29 10 44 36.6–.08 41.16N 47.00E 35 3.9b,3.4b
ISCJB V 29 10 44 38.7–.21 41.11N–.02 47.00E–.02 49–4 3.3b,3.4b
CSEM V 29 10 44 38.1–.12 41.11N 47.03E 20 3.5L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=18.3km s-min=13.6km az=163.0.
MOS Error ellipse: s-maj=8.2km s-min=5.4km az=109.0.
AZER Error ellipse: s-maj=0.5km s-min=0.3km az=346.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=37.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=30.0.
ISC V 30 00 05 57.4–.78 41.58N–.01 46.55E–.01 13–5 3.9b 282 0-75
AZER V 30 00 05 54.5–.10 41.50N 46.52E 3 3.9b **¶16702265**
TIF V 30 00 05 56.4 41.52N 46.58E 6–1 3.9b
MOS V 30 00 05 56.7–1.3 41.42N 46.73E 12 4.2b
CSEM V 30 00 05 57.2–.13 41.61N 46.54E 10 4.4L,4.0b
NSSP V 30 00 05 57.7 41.62N 46.45E 10 4.1s,4.0b
ISCJB V 30 00 05 57.4–.39 41.53N–.01 46.61E–.02 2–3 3.7b,4.0b
IDC V 30 00 05 59.0–3.4 41.47N 46.53E 26–25 3.7,3.7
NNC V 30 00 05 59.4–11 41.69N 46.47E 26–89 3.9b,3.7
ISC Event type ke.
AZER Error ellipse: s-maj=0.7km s-min=0.5km az=322.0.
MOS Error ellipse: s-maj=6.5km s-min=4.3km az=110.6.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=39.5.
IDC Error ellipse: s-maj=12.9km s-min=9.9km az=152.0.
NNC Event type se. Error ellipse: s-maj=84.3km s-min=43.5km az=105.0.
ISC VI 05 01 15 02.9–1.2 41.97N–.03 46.06E–.02 6–10 53 1-2
CSEM VI 05 01 15 02.7 41.96N 46.09E 0 2.8L **¶600853653**
TIF VI 05 01 15 02.7 41.96N 46.09E 9–1 2.8L
MOS VI 05 01 15 03.9–1.7 41.96N 46.09E 11 3.9b
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MOS Error ellipse: s-maj=8.6km s-min=7.8km az=91.0.
ISC VI 06 00 30 32.2–1.1 42.61N–.02 46.13E–.02 1–10 78 0-3
CSEM VI 06 00 30 32.1 42.60N 46.18E 0 2.6L **¶600853654**
MOS VI 06 00 30 32.6–1.6 42.60N 46.16E 9 3.9b
TIF VI 06 00 30 32.1 42.60N 46.18E 15–1 3.9b
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=24.1.
ISC VI 09 10 50 21.1–1.2 42.65N–.03 46.33E–.02 2–10 54 0-2
CSEM VI 09 10 50 20.9 42.63N 46.32E 0 2.5L **¶600853655**
TIF VI 09 10 50 20.9 42.63N 46.32E 11–1 2.5L
MOS VI 09 10 50 22.0–1.7 42.62N 46.38E 15 4.0b
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MOS Error ellipse: s-maj=9.4km s-min=7.1km az=27.8.
ISC VI 10 21 34 49.3–.76 40.42N–.01 45.54E–.01 6–5 167 0-22
AZER VI 10 21 34 47.1–.25 40.59N 45.54E 4–0 **¶16587565**
NSSP VI 10 21 34 47.7 40.40N 45.50E 5 3.1s
MOS VI 10 21 34 48.3–1.3 40.23N 45.60E 14 4.3b
ISK VI 10 21 34 49.5 40.42N 45.84E 35 2.9L
CSEM VI 10 21 34 49.0–.20 40.47N 45.50E 2 3.1L
TEH VI 10 21 34 53.6 40.26N 45.71E 18 3.1L
ISC Event type ke.
AZER Error ellipse: s-maj=0.9km s-min=0.7km az=232.0.
MOS Error ellipse: s-maj=15.2km s-min=5.8km az=104.6.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=168.0.
ISC VI 11 10 54 20.0–.58 40.45N–.01 45.52E–.01 10 3.6b,2.7s 209 0-36
AZER VI 11 10 54 18.0–.00 40.56N 45.58E 4–0 3.6b,2.7s **¶16589815**
TIF VI 11 10 54 18.4 40.51N 45.55E 11–1 3.6b,2.7s
NSSP VI 11 10 54 18.6 40.42N 45.50E 10 3.8s,2.7s
MOS VI 11 10 54 19.8–1.1 40.29N 45.53E 11 3.9b,2.7s
DDA VI 11 10 54 20.4 40.45N 45.36E 10 3.6L,2.7s
ISCJB VI 11 10 54 21.0–.21 40.40N–.02 45.52E–.02 10 3.4b,2.7s
CSEM VI 11 10 54 20.3–.16 40.47N 45.55E 5 3.8L,2.7s
IDC VI 11 10 54 21.1–.95 40.50N 45.32E 0 3.6,3.5
TEH VI 11 10 54 33.2 39.58N 45.35E 21 3.4L,3.5
ISC Event type ke.
AZER Error ellipse: s-maj=1.6km s-min=0.9km az=312.0.
MOS Error ellipse: s-maj=10.5km s-min=4.9km az=101.8.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=28.9.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=27.0.
IDC Error ellipse: s-maj=13.6km s-min=7.2km az=130.0.
TIF VI 15 02 36 52.2 43.25N 45.01E 7–3 ¶601270060
ISC VI 17 04 40 39.1–1.0 42.12N–.02 45.93E–.01 6–8 3.5b 196 1-38
IDC VI 17 04 40 38.0–.78 42.14N 45.83E 0 3.6,3.6 **¶16621515**
CSEM VI 17 04 40 38.8–.28 42.12N 46.01E 2 3.8L,3.6
TIF VI 17 04 40 38.2 42.12N 45.96E 10–0 3.8L,3.6
AZER VI 17 04 40 38.8–.02 42.11N 45.78E 33–4 3.8L,3.6
MOS VI 17 04 40 40.3–1.1 42.12N 46.06E 25 4.0b,3.6
DDA VI 17 04 40 40.3 42.06N 45.82E 5 3.4L,3.6
NNC VI 17 04 40 54.8–9.1 42.63N 47.35E 0 3.8b,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=10.9km s-min=9.3km az=71.0.

CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.6km az=16.0.
AZER Error ellipse: s-maj=5.2km s-min=3.7km az=3.0.
MOS Error ellipse: s-maj=6.4km s-min=4.9km az=125.6.
NNC Event type se. Error ellipse: s-maj=137.8km s-min=78.1km az=129.0.

ISC	**VI**	**17 15 53 39.2–.80**	**40.88N–.02**	**47.05E–.02**	**30–5**		**145**	**0-12**
NSSP	VI	17 15 53 35.9	40.85N	47.07E	7	3.5s		¶16628229
AZER	VI	17 15 53 38.4–.00	40.93N	46.97E	24	3.5s		
CSEM	VI	17 15 53 39.3–.19	40.90N	47.06E	20	3.5L		
MOS	VI	17 15 53 39.3–2.3	41.08N	47.09E	5	4.1b		

ISC Event type ke.
AZER Error ellipse: s-maj=0.1km s-min=0.1km az=323.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=7.0.
MOS Error ellipse: s-maj=10.2km s-min=5.5km az=98.6.

ISC	**VI**	**22 11 36 35.6–1.2**	**43.23N–.03**	**46.52E–.02**	**2–10**		**122**	**0-20**
TIF	VI	22 11 36 34.5	43.25N	46.63E	11–1			¶17242783
AZER	VI	22 11 36 35.5–3.1	43.15N	46.13E	12–0			
MOS	VI	22 11 36 36.4–1.0	43.22N	46.56E	18	4.3b		
CSEM	VI	22 11 36 42.5–.71	42.85N	46.33E	10	3.2L		

ISC Event type ke.
AZER Error ellipse: s-maj=4.0km s-min=2.5km az=13.0.
MOS Error ellipse: s-maj=6.6km s-min=5.8km az=30.7.
CSEM Event type ke. Error ellipse: s-maj=16.3km s-min=9.8km az=7.0.

ISC	**VI**	**23 10 00 18.7–1.3**	**43.24N–.04**	**46.50E–.03**	**3–10**		**63**	**0-3**
TIF	VI	23 10 00 18.8	43.25N	46.50E	11–1			¶600918146
MOS	VI	23 10 00 20.2–2.1	43.12N	46.40E	11	4.2b		

ISC Event type ke.
MOS Error ellipse: s-maj=8.6km s-min=5.6km az=32.6.

ISC	**VI**	**23 20 17 51.5–1.1**	**42.09N–.02**	**45.96E–.02**	**3–10**		**106**	**1-17**
TIF	VI	23 20 17 50.5	42.10N	45.96E	8–0			¶600918147
MOS	VI	23 20 17 51.7–.53	42.07N	45.99E	11	4.1b		
CSEM	VI	23 20 17 52.8–.91	42.10N	45.87E	2	3.7		
DDA	VI	23 20 18 02.8	41.62N	45.15E	13	3.7		

ISC Event type ke.
MOS Error ellipse: s-maj=6.2km s-min=5.3km az=114.8.
CSEM Event type ke. Error ellipse: s-maj=15.7km s-min=14.3km az=55.0.

ISC	**VI**	**24 20 36 46.7–.95**	**43.11N–.03**	**46.45E–.02**	**13–7**		**113**	**0-19**
AZER	VI	24 20 36 40.1–.05	43.34N	46.03E	3			¶600918167
MOS	VI	24 20 36 47.3–2.6	43.05N	46.41E	13	4.0b		
NNC	VI	24 20 36 56.5–3.5	45.35N	46.18E	0	3.6b		

ISC Event type ke.
AZER Error ellipse: s-maj=0.5km s-min=0.2km az=309.0.
MOS Error ellipse: s-maj=9.0km s-min=5.4km az=29.2.
NNC Event type se. Error ellipse: s-maj=129.6km s-min=26.0km az=145.0.

ISC	**VI**	**28 18 56 30.9–.98**	**43.13N–.03**	**45.23E–.02**	**89–7**		**104**	**0-12**
CSEM	VI	28 18 56 28.6–.26	43.23N	45.42E	10	2.8L		¶17270282
TIF	VI	28 18 56 29.0	43.14N	45.36E	27–2	2.8L		
ISCJB	VI	28 18 56 31.2–.50	43.12N–.03	45.21E–.03	97–4	2.8L		
MOS	VI	28 18 56 31.7–.31	43.10N	45.20E	79	4.4b		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=4.8km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=13.6.
MOS Error ellipse: s-maj=9.7km s-min=7.1km az=25.9.

(338) Caspian Sea.

ISC	**I**	**12 00 04 00.1–.78**	**40.29N–.04**	**50.53E–.05**	**68–6**	**3.4b**	**120**	**0-32**
IDC	I	12 00 03 56.3–1.3	40.51N	50.20E	0	3.7,3.6		¶16395562
ISCJB	I	12 00 03 59.8–.45	40.26N–.03	50.45E–.04	74–5	3.3b,3.6		
AZER	I	12 00 04 00.6–.48	40.21N	50.31E	48	3.3b,3.6		
CSEM	I	12 00 04 01.2–.28	40.25N	50.43E	50	3.6b,3.6		
NNC	I	12 00 04 10.1–5.2	40.95N	51.88E	0	3.6b,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=19.1km s-min=9.2km az=163.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.9km az=168.9.
AZER Error ellipse: s-maj=1.6km s-min=0.7km az=266.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=155.0.
NNC Event type se. Error ellipse: s-maj=58.2km s-min=36.7km az=93.0.

ISC	**I**	**20 22 51 31.7–.90**	**41.14N–.07**	**49.46E–.07**	**55**	**3.7b**	**28**	**3-31**
CSEM	I	20 22 51 28.0–.37	41.16N	49.40E	10	2.9L		¶16396418
ISCJB	I	20 22 51 30.2–.52	41.16N–.06	49.31E–.07	55	3.6b		
TEH	I	20 22 51 33.7	40.91N	49.18E	18	2.9L		
NNC	I	20 22 51 34.9–2.1	41.60N	49.78E	0	3.4b		
IDC	I	20 22 51 37.8–1.5	42.00N	47.91E	0	3.8b,3.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.9km s-min=8.8km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.0km az=138.8.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=14.7km az=85.0.
IDC Error ellipse: s-maj=25.6km s-min=16.0km az=136.0.

ISC	**II**	**04 21 41 07.4–1.4**	**40.39N–.04**	**51.50E–.04**	**23–11**	**3.8b**	**199**	**1-77**
IDC	II	04 21 41 04.1–.77	40.31N	51.31E	0	3.9,3.9		¶16328707
NEIC	II	04 21 41 05.8–.52	40.38N	51.42E	10	4.0b,3.9		
MOS	II	04 21 41 06.2–1.7	40.73N	51.56E	6	4.4b,3.9		
CSEM	II	04 21 41 08.1–.23	40.47N	51.53E	20	4.4b,3.9		
AZER	II	04 21 41 09.7–.47	40.18N	51.30E	33	4.4b,3.9		
NNC	II	04 21 41 19.7–2.7	40.93N	52.52E	19–33	4.5,4.0b		

ISC Event type ke.
IDC Error ellipse: s-maj=16.7km s-min=8.7km az=179.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.4km az=174.0.
MOS Error ellipse: s-maj=7.5km s-min=5.7km az=132.5.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=3.7km az=167.0.
AZER Error ellipse: s-maj=1.6km s-min=1.1km az=251.0.
NNC Event type se. Error ellipse: s-maj=34.8km s-min=6.9km az=75.0.

ISC	**II**	**05 11 24 24.6–1.2**	**39.51N–.05**	**51.55E–.06**	**53–15**	**3.4b**	**71**	**2-78**
IDC	II	05 11 24 19.1–1.8	39.61N	51.53E	0	3.7,3.7L		¶16397654
CSEM	II	05 11 24 22.3–.40	39.50N	51.82E	40	3.3b,3.7L		
ISCJB	II	05 11 24 23.4–.63	39.50N–.05	51.63E–.05	60–10	3.5b,3.7L		
AZER	II	05 11 24 25.0–9.8	39.52N	51.41E	45	3.5b,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=23.6km az=156.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=5.9km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.6km az=21.1.
AZER Error ellipse: s-maj=7.1km s-min=4.5km az=284.0.

IDC	**II**	**06 08 56 29.0–3.6**	**39.77N**	**50.83E**	**0**	**3.8,3.7L**		¶17191787

IDC Error ellipse: s-maj=79.5km s-min=27.5km az=24.0.

ISC	**III**	**20 06 28 13.5–1.1**	**40.38N–.05**	**51.94E–.06**	**83–17**		**93**	**1-26**
TEH	III	20 06 28 05.3	40.96N	52.30E	19	3.9L		¶17197409
IDC	III	20 06 28 07.8–2.3	40.54N	51.86E	0	3.9b,3.8		
CSEM	III	20 06 28 12.8–.39	40.37N	51.92E	20	3.9L,3.8		
AZER	III	20 06 28 12.1–.14	40.48N	51.91E	55	3.9L,3.8		
ISCJB	III	20 06 28 12.5–.57	40.38N–.04	51.88E–.06	113–10	3.5b,3.8		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**29 03 35 50.3–2.6**	**40.47N–.06**	**51.7E–.10**	**10**		**68**	**1-11**
CSEM	III	29 03 35 47.1–.55	40.61N	52.14E	20	3.4b		¶16684652
AZER	III	29 03 35 50.0–.02	40.43N	51.69E	22–0	3.4b		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.3km s-min=8.9km az=153.0.
AZER Error ellipse: s-maj=15.9km s-min=1.5km az=258.0.

ISC	**III**	**29 23 00 32.0–.76**	**41.18N–.04**	**49.39E–.03**	**56–7**	**3.0b**	**107**	**0-50**
IDC	III	29 23 00 25.8–1.0	41.15N	49.30E	0	3.3,3.2		¶17199124
AZER	III	29 23 00 30.8–.42	41.20N	49.39E	43–0	3.3,3.2		
ISCJB	III	29 23 00 31.3–.40	41.21N–.04	49.45E–.04	66–5	2.9b,3.2		
CSEM	III	29 23 00 33.0–.38	41.12N	49.44E	40	2.9b,3.2		

ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=9.4km az=165.0.
AZER Error ellipse: s-maj=1.5km s-min=1.1km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=14.5.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=4.9km az=34.0.

ISC	**III**	**31 15 01 37.1–1.2**	**42.72N–.03**	**48.42E–.04**	**16–9**		**73**	**1-10**
AZER	III	31 15 01 36.7–.14	42.83N	48.60E	53–14			¶16705064
ISCJB	III	31 15 01 36.8–1.3	42.82N–.03	48.52E–.04	19–12			
CSEM	III	31 15 01 37.1–.41	42.73N	48.39E	2	4.2b		
MOS	III	31 15 01 41.7–1.1	42.52N	48.11E	19	4.2b		

ISC Event type ke.
AZER Error ellipse: s-maj=14.4km s-min=5.7km az=345.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.2km az=137.9.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.4km az=40.0.
MOS Error ellipse: s-maj=13.4km s-min=11.6km az=9.2.

ISC	**IV**	**11 04 49 51.1–.78**	**42.06N–.02**	**48.42E–.03**	**8–5**	**3.6b**	**145**	**0-50**
IDC	IV	11 04 49 49.2–.90	42.06N	48.18E	0	3.5,3.5		¶16706361
AZER	IV	11 04 49 49.3–8.0	42.09N	48.34E	32–0	3.5,3.5		
ISCJB	IV	11 04 49 50.6–.52	42.11N–.02	48.43E–.03	7–3	3.4b,3.5		
MOS	IV	11 04 49 50.0–.84	42.02N	48.48E	8	4.1b,3.5		
CSEM	IV	11 04 49 51.5–.18	42.06N	48.49E	10	4.1b,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=13.9km s-min=8.8km az=162.0.
AZER Error ellipse: s-maj=6.4km s-min=3.8km az=40.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.9km az=149.6.
MOS Event type fe. Error ellipse: s-maj=8.5km s-min=5.8km az=25.0. Felt (II - III) at Derbent. Moment Tensor Solution.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=76.0.

ISC	**IV**	**20 02 41 50.1–.88**	**39.93N–.03**	**50.17E–.05**	**68–7**	**3.4b**	**141**	**0-50**
IDC	IV	20 02 41 43.0–1.3	39.94N	50.10E	0	3.6,3.6		¶17201579
ISCJB	IV	20 02 41 48.2–.53	39.93N–.03	50.18E–.04	81–5	3.3b,3.6		
AZER	IV	20 02 41 48.2–.12	39.89N	50.12E	55	3.3b,3.6		
CSEM	IV	20 02 41 49.0–.31	39.90N	50.22E	60	3.3b,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=12.9km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.9km az=0.5.
AZER Error ellipse: s-maj=0.8km s-min=0.4km az=266.0.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=96.0.

ISC	**IV**	**23 21 35 12.3–.77**	**40.64N–.08**	**50.64E–.05**	**35**	**3.6b**	**29**	**4-98**
IDC	IV	23 21 35 05.6–1.3	40.34N	50.37E	0	3.8,3.7b		¶16452976
ISCJB	IV	23 21 35 10.0–.64	40.60N–.07	50.62E–.04	33	3.5b,3.7b		
NNC	IV	23 21 35 19.6–9.1	41.32N	50.93E	0	3.7b,3.7b		

ISC Event type se.
IDC Error ellipse: s-maj=26.5km s-min=11.1km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=4.8km az=3.8.
NNC Event type se. Error ellipse: s-maj=76.1km s-min=64.9km az=99.0.

ISC	**VI**	**03 00 46 41.9–.74**	**40.20N–.04**	**51.48E–.04**	**75–10**	**3.7b**	**164**	**1-51**
IDC	VI	03 00 46 36.1–1.2	40.18N	51.26E	0	4.0L,3.8		¶16713151
CSEM	VI	03 00 46 41.9–.26	40.24N	51.48E	60	4.3b,3.8		
ISCJB	VI	03 00 46 42.0–.39	40.14N–.04	51.34E–.04	96–7	3.7b,3.8		
MOS	VI	03 00 46 41.7–1.1	40.62N	51.34E	37	4.4b,3.8		
NEIC	VI	03 00 46 42.3–1.3	40.41N	51.38E	46–13	4.3b,3.8		
AZER	VI	03 00 46 42.3–1.2	40.18N	51.30E	60	4.3b,3.8		
NNC	VI	03 00 46 47.6–2.0	40.97N	52.07E	0	3.9b,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=23.8km s-min=11.8km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=163.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=177.3.
MOS Error ellipse: s-maj=12.5km s-min=8.6km az=45.5.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=6.6km az=168.0.
AZER Error ellipse: s-maj=2.5km s-min=0.9km az=287.0.
NNC Event type se. Error ellipse: s-maj=21.7km s-min=14.1km az=85.0.

(339) Northwestern Uzbekistan.

ISC	**I**	**09 03 33 58.9–.89**	**40.56N–.08**	**63.31E–.06**	**10**	**3.9b**	**36**	**5-37**
ISCJB	I	09 03 33 58.5–.79	40.73N–.07	63.38E–.06	10	3.7b,3.4s		¶16395282
IDC	I	09 03 33 59.4–1.3	40.53N	63.20E	0	3.7b,3.6		
NNC	I	09 03 34 05.6–3.8	41.08N	63.65E	0	3.7b,3.2		
CSEM	I	09 03 34 05.6	41.08N	63.65E	0	3.7b,3.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.0km az=2.6.
IDC Error ellipse: s-maj=18.4km s-min=9.9km az=178.0.
NNC Event type se. Error ellipse: s-maj=36.2km s-min=13.3km az=20.0.
CSEM Event type se. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**II**	**14 12 44 51.1–.99**	**40.50N–.07**	**63.06E–.06**	**15**		**18**	**5-9**
ISCJB	II	14 12 44 47.9–.71	40.62N–.05	63.23E–.08	15			¶16512171
CSEM	II	14 12 44 48.0–.25	40.53N	63.34E	2	3.3L		
NNC	II	14 12 44 51.1–11	40.53N	63.31E	8–58	3.7b,3.3		
TEH	II	14 12 45 04.9	39.75N	62.41E	18	3.3L,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.6km az=175.2.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=6.2km az=155.0.
NNC Event type se. Error ellipse: s-maj=90.1km s-min=44.5km az=45.0.

NNC	**III**	**29 14 09 14.0–7.6**	**40.86N**	**63.59E**	**0**	**3.5b,3.0**		
CSEM	III	29 14 09 14.0	40.86N	63.59E	0	3.5b,3.0		¶16684680

NNC Event type se. Error ellipse: s-maj=67.8km s-min=39.2km az=17.0.
CSEM Event type se. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

(340) Turkmenistan.

ISC	**III**	**25 16 01 47.2–1.8**	**39.7N–.10**	**53.5E–.10**	**35**		**21**	**4-11**
ISCJB	III	25 16 01 45.9–1.2	39.81N–.08	53.40E–.08	33			¶16647899
AZER	III	25 16 01 47.5–11	39.61N	53.19E	37			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.3km az=152.7.
AZER Error ellipse: s-maj=7.8km s-min=5.8km az=266.0.

ISC	**III**	**25 23 15 31.7–.73**	**39.81N–.06**	**53.52E–.04**	**10**	**3.3b**	**104**	**3-53**
THR	III	25 23 15 30.3–.42	39.96N	53.53E	15	3.6L		¶602003494
ISCJB	III	25 23 15 30.5–.36	39.95N–.04	53.60E–.03	10	3.2b		
IDC	III	25 23 15 30.2–1.3	39.74N	53.44E	0	3.6,3.5		
AZER	III	25 23 15 32.9–.11	39.67N	53.16E	5	3.6,3.5		
CSEM	III	25 23 15 33.0–.26	39.81N	53.54E	10	3.6L,3.5		
NNC	III	25 23 15 44.5–5.1	40.66N	54.68E	0	3.9b,3.5		

ISC Event type ke.
THR Error ellipse: s-maj=7.4km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.2km az=8.1.
IDC Error ellipse: s-maj=22.9km s-min=11.2km az=169.0.
AZER Error ellipse: s-maj=7.6km s-min=4.2km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=4.9km az=20.0.
NNC Event type se. Error ellipse: s-maj=44.9km s-min=28.8km az=56.0.

ISC	**V**	**08 08 21 50.2–.69**	**40.36N–.04**	**52.25E–.03**	**57–8**	**4.0b**	**258**	**2-77**
IDC	V	08 08 21 44.4–1.0	40.15N	51.93E	0	4.1,4.1L		¶16560932
MOS	V	08 08 21 47.2–1.6	40.32N	52.15E	33	4.3b,4.1L		
ISCJB	V	08 08 21 49.6–.32	40.37N–.03	52.18E–.02	60–6	3.9b,4.1L		
THR	V	08 08 21 50.9–.58	39.61N	51.92E	15	4.1L,4.1L		
AZER	V	08 08 21 51.0–.02	40.06N	51.83E	28–0	4.1L,4.1L		
CSEM	V	08 08 21 50.9–.18	40.38N	52.16E	53–3	4.1b,4.1L		
NEIC	V	08 08 21 50.6–.68	40.38N	52.15E	49–10	4.0b,4.1L		
TEH	V	08 08 21 53.0	40.41N	52.20E	49	4.2L,4.1L		
NNC	V	08 08 21 57.0–3.0	40.96N	53.03E	0	4.2b,4.1L		

ISC Event type ke.
IDC Error ellipse: s-maj=18.1km s-min=9.6km az=3.0.
MOS Error ellipse: s-maj=8.1km s-min=6.0km az=106.3.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=2.8km az=15.6.
THR Error ellipse: s-maj=8.0km s-min=2.9km az=-1.0.
AZER Error ellipse: s-maj=15.1km s-min=1.9km az=266.0.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=16.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=6.9km az=172.0.
NNC Event type se. Error ellipse: s-maj=26.5km s-min=21.0km az=85.0.

ISC	**V**	**26 23 55 25.4–.74**	**40.84N–.04**	**52.06E–.05**	**10**	**3.5b**	**129**	**2-26**
IDC	V	26 23 55 22.5–1.8	40.55N	51.90E	0	3.7,3.7		¶16711017
ISCJB	V	26 23 55 25.0–.33	40.93N–.04	52.00E–.03	10	3.4b,3.7		
CSEM	V	26 23 55 27.6–.26	40.88N	52.09E	20	3.6L,3.7		
THR	V	26 23 55 27.1–.36	40.74N	51.83E	15	3.6L,3.7		
AZER	V	26 23 55 30.7–.04	40.63N	51.78E	48–0	3.6L,3.7		
NNC	V	26 23 55 31.4–3.6	41.34N	52.36E	0	3.9b,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=33.8km s-min=9.9km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=2.8km az=176.6.

CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=5.6km az=152.0.
THR Error ellipse: s-maj=5.9km s-min=1.6km az=-1.0.
AZER Error ellipse: s-maj=1.7km s-min=0.9km az=249.0.
NNC Event type se. Error ellipse: s-maj=76.3km s-min=28.3km az=109.0.

ISC	**VI**	**01 10 23 39.6–.42**	**39.70N–.04**	**54.81E–.03**	**29**	**4.2b,3.1s**	**311**	**3-97**
IDC	VI	01 10 23 34.9–.76	39.36N	54.61E	0	4.2,4.1		¶16577367
CSEM	VI	01 10 23 37.6–.14	39.67N	54.80E	10	4.5b,4.1		
MOS	VI	01 10 23 37.2–1.4	39.80N	54.78E	16	4.5b,4.1		
NEIC	VI	01 10 23 37.2–.30	39.58N	54.72E	10	4.4,4.2b		
ISCJB	VI	01 10 23 38.4–.20	39.66N–.02	54.73E–.02	29	4.1b,3.2s		
AZER	VI	01 10 23 41.7–.04	39.35N	54.03E	5	4.1b,3.2s		
TEH	VI	01 10 23 43.0	39.58N	54.81E	40	4.4L,3.2s		
NNC	VI	01 10 23 44.7–4.5	40.13N	55.52E	0	4.9,4.6b		

ISC Event type fe.
IDC Error ellipse: s-maj=16.5km s-min=8.0km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=3.0.
MOS Error ellipse: s-maj=6.7km s-min=5.2km az=35.5.
NEIC Event type fe. Error ellipse: s-maj=6.3km s-min=4.3km az=181.0. Felt at Turkmenbasy.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.2km az=8.2.
AZER Error ellipse: s-maj=1.9km s-min=1.5km az=33.0.
NNC Event type se. Error ellipse: s-maj=46.5km s-min=18.0km az=71.0.

(341) Iran-Turkmenistan border region.

TEH	**I**	**05 16 32 42.8**	**37.84N**	**57.27E**	**5**	**2.8L**		
CSEM	I	05 16 32 42.3–.93	37.84N	57.28E	10	2.7L		¶601902347

CSEM Event type ke. Error ellipse: s-maj=27.3km s-min=9.1km az=12.0.

ISC	**I**	**15 14 24 11.6–.66**	**37.49N–.03**	**58.11E–.03**	**10**		**46**	**0-43**
NNC	I	15 14 24 09.5–.69	37.64N	57.65E	0	4.6,3.7b		¶16395934
ISCJB	I	15 14 24 10.7–.39	37.49N–.03	58.09E–.04	10	3.4s,3.3b		
CSEM	I	15 14 24 10.4–.35	37.52N	58.07E	2	3.4L,3.3b		
TEH	I	15 14 24 11.7	37.49N	58.09E	5	3.4L,3.3b		
IDC	I	15 14 24 11.4–2.0	37.51N	58.09E	0	3.5,3.5s		

ISC Event type ke.
NNC Event type se. Error ellipse: s-maj=10.8km s-min=3.1km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=19.8.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=7.5km az=76.0.
IDC Error ellipse: s-maj=13.7km s-min=4.8km az=2.0.

ISC	**II**	**02 13 38 50.7–1.2**	**38.15N–.05**	**57.58E–.09**	**18**		**27**	**1-12**
ISCJB	II	02 13 38 50.7–.90	38.32N–.04	57.7E–.10	18			¶16494088
CSEM	II	02 13 38 51.2–.78	38.23N	57.70E	2	3.1L		
TEH	II	02 13 38 52.9	38.03N	57.57E	5	3.1L		
NNC	II	02 13 38 56.3–4.2	38.64N	57.83E	0	3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=5.3km az=169.7.
CSEM Event type ke. Error ellipse: s-maj=29.1km s-min=10.1km az=76.0.
NNC Event type se. Error ellipse: s-maj=36.2km s-min=19.9km az=34.0.

ISC	**II**	**07 21 35 35.1–.88**	**37.53N–.05**	**54.44E–.04**	**30**		**53**	**1-12**
CSEM	II	07 21 35 36.7–.33	37.32N	54.67E	2	3.6L		¶16501907
TEH	II	07 21 35 37.2	37.39N	54.60E	8	3.7L		
THR	II	07 21 35 38.9–.99	37.33N	54.77E	38–8	3.6L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=4.5km az=161.0.
THR Error ellipse: s-maj=4.8km s-min=6.1km az=-1.0.

ISC	**IV**	**03 17 32 28.0–1.1**	**37.25N–.03**	**57.39E–.02**	**8–7**	**4.2b**	**209**	**0-80**
IDC	IV	03 17 32 27.1–.86	37.20N	57.24E	0	4.2,4.0		¶16506174
ISCJB	IV	03 17 32 28.9–.45	37.27N–.02	57.44E–.03	25–4	4.0b,4.0		
CSEM	IV	03 17 32 28.1–.11	37.26N	57.43E	5	4.3b,4.0		
THR	IV	03 17 32 28.1–.52	37.18N	57.39E	14–10	4.1L,4.0		
NNC	IV	03 17 32 29.6–5.4	37.68N	57.01E	19–66	5.1,4.2b		
TEH	IV	03 17 32 29.4	37.20N	57.41E	3	4.1L,4.2b		
NEIC	IV	03 17 32 29.0	37.20N	57.41E	3	4.1,4.0b		
MOS	IV	03 17 32 31.3–1.3	37.36N	57.38E	33	4.4b,4.0b		

ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=8.8km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=142.9.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=1.0.
THR Error ellipse: s-maj=2.5km s-min=6.5km az=-1.0.
NNC Event type se. Error ellipse: s-maj=55.1km s-min=13.4km az=12.0.
NEIC Event type se. After TEH.
MOS Error ellipse: s-maj=9.2km s-min=6.5km az=114.3.

ISC	**IV**	**13 01 59 55.3–1.3**	**37.44N–.04**	**54.02E–.05**	**35**		**62**	**1-8**
CSEM	IV	13 01 59 52.8–.36	37.45N	54.01E	10	3.0L		¶601711134
AZER	IV	13 01 59 53.2–.26	37.36N	53.85E	28	3.0L		
ISCJB	IV	13 01 59 54.5–.52	37.52N–.03	53.92E–.05	33	3.0L		
TEH	IV	13 01 59 54.7	37.30N	54.01E	5	3.0L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=7.0km az=43.0.
AZER Error ellipse: s-maj=12.1km s-min=5.3km az=230.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.5km az=143.5.

ISC	**V**	**15 14 49 36.7–1.3**	**37.78N–.05**	**55.80E–.04**	**8–10**	**3.4b**	**128**	**0-54**
IDC	V	15 14 49 34.7–1.1	37.45N	55.81E	0	3.7,3.7		¶16709952
ISCJB	V	15 14 49 35.1–.88	37.83N–.03	55.79E–.03	3–7	3.5b,3.7		
THR	V	15 14 49 36.7–.43	37.67N	55.87E	14–4	3.8L,3.7		
CSEM	V	15 14 49 36.7–.16	37.72N	55.81E	2	3.8L,3.7		
TEH	V	15 14 49 37.9	37.75N	55.80E	7	4.0L,3.7		
NNC	V	15 14 49 37.5–2.3	38.12N	55.52E	0	4.9,4.2b		
AZER	V	15 14 49 43.0–4.7	37.53N	54.88E	15	4.9,4.2b		

ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=11.8km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=2.7.
THR Error ellipse: s-maj=1.9km s-min=3.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.5km az=15.0.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=8.9km az=40.0.
AZER Error ellipse: s-maj=4.9km s-min=1.2km az=353.0.

ISC	**V**	**29 06 15 21.4–.58**	**37.27N–.04**	**54.12E–.04**	**10**	**3.3b**	**109**	**1-80**
IDC	V	29 06 15 19.1–2.0	37.17N	53.84E	0	3.6,3.5		¶17204677
ISCJB	V	29 06 15 20.4–.28	37.33N–.02	54.08E–.03	10	3.1b,3.5		
TEH	V	29 06 15 22.2	37.29N	54.18E	4	3.8L,3.5		
CSEM	V	29 06 15 22.0–.16	37.28N	54.14E	10	3.8L,3.5		
AZER	V	29 06 15 26.0–.62	37.22N	53.61E	4	3.8L,3.5		

ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=12.1km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=138.4.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.2km az=41.0.
AZER Error ellipse: s-maj=8.7km s-min=6.0km az=27.0.

IDC	**VI**	**19 04 25 34.7–4.3**	**38.02N**	**57.22E**	**0**	**4.4,4.3b**		
								¶17206507

IDC Error ellipse: s-maj=89.3km s-min=39.8km az=171.0.

ISC	**VI**	**28 02 07 52.3–.62**	**37.06N–.04**	**57.34E–.03**	**10**	**3.7b**	**66**	**1-36**
THR	VI	28 02 07 51.4–.35	36.96N	57.27E	14–7	3.5L		¶17207108
ISCJB	VI	28 02 07 51.4–.30	37.01N–.03	57.37E–.03	10	3.5b		
IDC	VI	28 02 07 51.9–2.2	36.99N	57.32E	0	3.9L,3.8		
CSEM	VI	28 02 07 52.1–.24	37.05N	57.38E	10	3.8L,3.8		
TEH	VI	28 02 07 53.1	37.02N	57.36E	8	3.8L,3.8		
NNC	VI	28 02 08 03.3–3.2	37.54N	57.60E	49–27	3.5b,3.8		

ISC Event type ke.
THR Error ellipse: s-maj=2.2km s-min=4.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=6.8.
IDC Error ellipse: s-maj=34.1km s-min=12.4km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.4km az=3.0.
NNC Event type se. Error ellipse: s-maj=27.4km s-min=16.9km az=39.0.

(343) Turkey-Iran border region.

ISC	**I**	**12 16 41 21.9–1.1**	**37.27N–.06**	**44.27E–.04**	**6**		**25**	**1-3**
ISCJB	I	12 16 41 20.3–.59	37.16N–.05	44.32E–.04	6			¶601902507
CSEM	I	12 16 41 21.3–.34	37.21N	44.30E	5	2.6L		
TEH	I	12 16 41 22.0	37.31N	44.27E	4	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.5km az=175.3.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=7.2km az=178.0.

ISC	**I**	**16 19 45 49.9–2.7**	**37.42N–.06**	**44.2E–.10**	**5–11**		**28**	**0-2**
ISK	I	16 19 45 49.4	37.48N	44.14E	4	2.7		¶16358130
CSEM	I	16 19 45 50.1–1.7	37.05N	44.18E	5	2.6		
DDA	I	16 19 46 00.3	37.60N	43.46E	7	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=29.4km s-min=25.7km az=138.0.
DDA Event type ke.

ISC	**I**	**17 03 31 51.2–1.1**	**38.43N–.02**	**44.78E–.01**	**2–10**		**139**	**1-4**
TEH	I	17 03 31 50.5	38.44N	44.71E	5	3.2L		¶16358139
CSEM	I	17 03 31 51.9–.26	38.41N	44.81E	2	3.5		
ISK	I	17 03 31 52.3	38.38N	44.66E	5	3.1L		
AZER	I	17 03 31 52.6–5.8	38.79N	44.71E	2	3.1L		
DDA	I	17 03 31 57.0	38.61N	44.34E	4	3.5		
NSSP	I	17 03 32 46.8	38.37N	44.95E	5	3.6s		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=167.0.
AZER Error ellipse: s-maj=5.5km s-min=3.7km az=232.0.
DDA Event type ke.

ISC	**I**	**17 14 50 31.7–1.2**	**38.60N–.04**	**44.71E–.02**	**6–11**		**39**	**1-3**
NSSP	I	17 14 50 29.8	38.53N	45.00E	10	2.9L		¶15931758
CSEM	I	17 14 50 31.3–.27	38.51N	44.67E	2	2.7L		
TEH	I	17 14 50 31.8	38.64N	44.69E	4	2.7L		
DDA	I	17 14 50 34.0	38.91N	44.65E	7	3.1		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=4.5km az=15.0.
DDA Event type ke.

ISC	**I**	**17 18 24 48.8–1.2**	**38.54N–.04**	**44.87E–.02**	**4–11**		**50**	**1-2**
ISK	I	17 18 24 46.8	38.52N	44.98E	5	2.5L		¶15934884
CSEM	I	17 18 24 48.6–.25	38.52N	44.87E	5	2.7		
TEH	I	17 18 24 48.3	38.50N	44.75E	4	3.0L		
DDA	I	17 18 24 51.4	38.73N	44.80E	7	2.7		
NSSP	I	17 18 24 51.8	38.77N	44.97E	10	2.8L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.3km az=17.0.
DDA Event type ke.

ISC	**I**	**18 11 13 12.6–.83**	**38.58N–.02**	**44.68E–.02**	**3–6**		**101**	**1-5**
AZER	I	18 11 13 01.2–16	38.23N	43.99E	5			¶15968924
NSSP	I	18 11 13 07.8	38.80N	44.63E	10	3.6s		
TEH	I	18 11 13 10.0	38.60N	44.60E	3	3.5L		
CSEM	I	18 11 13 11.9–.24	38.58N	44.68E	2	3.5L		
ISK	I	18 11 13 15.0	38.67N	44.40E	4	3.2L		

ISC Event type ke.
AZER Error ellipse: s-maj=9.3km s-min=6.8km az=247.0.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=176.0.

ISC	**I**	**24 23 56 10.1–.75**	**38.71N–.02**	**44.83E–.01**	**5–5**	**3.7b**	**197**	**1-78**
NSSP	I	24 23 56 06.5	38.53N	44.98E	5	3.8L		¶15968973
IDC	I	24 23 56 08.7–1.2	38.69N	44.53E	0	3.7b,3.7		
AZER	I	24 23 56 08.2–.05	38.59N	44.88E	5–0	3.7b,3.7		
ISK	I	24 23 56 09.8	38.67N	44.67E	5	3.5L,3.7		
TEH	I	24 23 56 09.8	38.66N	44.73E	10	3.6L,3.7		
DDA	I	24 23 56 11.4	38.68N	44.46E	5	3.6,3.7		
THR	I	24 23 56 11.7–.36	38.84N	44.83E	18–6	3.5L,3.7		
CSEM	I	24 23 56 12.7–.21	38.62N	44.78E	20	3.8L,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=16.8km s-min=14.2km az=159.0.
AZER Error ellipse: s-maj=2.7km s-min=2.1km az=326.0.
DDA Event type ke.
THR Error ellipse: s-maj=4.3km s-min=2.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=10.0.

ISC	**I**	**25 00 02 30.5–1.1**	**38.60N–.03**	**44.70E–.02**	**1–11**		**59**	**1-3**
NSSP	I	25 00 02 28.9	38.52N	44.95E	5	3.3s		¶16358380
TEH	I	25 00 02 30.9	38.62N	44.66E	10	2.9L		
CSEM	I	25 00 02 30.5–.28	38.56N	44.70E	2	3.3		
DDA	I	25 00 02 33.8	38.68N	44.40E	5	3.3		
ISK	I	25 00 02 34.1	38.62N	44.36E	2	3.2		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.6km az=11.0.
DDA Event type ke.

ISC	**I**	**25 03 39 59.6–1.1**	**38.64N–.02**	**44.79E–.01**	**6–10**		**123**	**1-4**
NSSP	I	25 03 39 57.6	38.58N	44.88E	5	3.4s		¶16358382
CSEM	I	25 03 39 59.9–.24	38.71N	44.80E	2	3.1L		
TEH	I	25 03 40 00.4	38.67N	44.71E	10	3.1L		
ISK	I	25 03 40 01.5	38.63N	44.54E	5	3.4,3.1L		
AZER	I	25 03 40 02.7–8.0	38.77N	44.86E	3–0	3.4,3.1L		
DDA	I	25 03 40 04.4	38.72N	44.34E	2	3.4,3.1L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.9km az=170.0.
AZER Error ellipse: s-maj=6.3km s-min=3.3km az=246.0.
DDA Event type ke.

ISK	**II**	**06 12 40 21.8**	**37.49N**	**44.03E**	**6**	**2.8,2.6L**		
ISN	II	06 12 40 09.1–4.5	37.89N	44.07E	0	2.7L,2.6L		¶16358537
CSEM	II	06 12 40 21.8	37.49N	44.03E	6	2.8,2.6L		

ISN Error ellipse: s-maj=56.7km s-min=37.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**II**	**07 20 41 51.0–2.0**	**37.62N–.05**	**44.08E–.10**	**22–3**		**31**	**0-3**
DDA	II	07 20 41 48.8	37.58N	44.03E	8	2.9		¶16494323
ISK	II	07 20 41 51.6	37.68N	43.91E	5	2.8		
CSEM	II	07 20 41 53.6–.78	37.69N	43.78E	5	2.9		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.9km s-min=10.1km az=95.0.

ISC	**II**	**09 13 54 44.8–1.4**	**37.71N–.03**	**44.05E–.06**	**14–10**		**42**	**0-7**
ISCJB	II	09 13 54 42.3–1.2	37.74N–.03	44.20E–.07	2–6			¶16358556
ISK	II	09 13 54 44.2	37.74N	43.94E	5	2.9L		
ISN	II	09 13 54 44.3–1.9	37.74N	43.62E	0–7	3.3L		
CSEM	II	09 13 54 46.0–.55	37.73N	43.90E	5	2.9		
DDA	II	09 13 54 49.5	37.79N	43.74E	5	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.2km az=174.6.
ISN Error ellipse: s-maj=11.0km s-min=13.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=14.1km s-min=6.9km az=74.0.
DDA Event type ke.

ISC	**II**	**11 02 42 48.4–1.9**	**37.68N–.04**	**44.06E–.10**	**11–10**		**26**	**0-2**
CSEM	II	11 02 42 44.5–2.4	37.64N	44.45E	2	2.7		¶16494421
ISK	II	11 02 42 48.3	37.72N	43.94E	4	2.6		
DDA	II	11 02 42 53.8	37.73N	43.73E	5	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=44.8km s-min=19.7km az=103.0.
DDA Event type ke.

ISC	**II**	**15 06 32 48.5–2.0**	**37.73N–.03**	**44.06E–.08**	**8–10**		**37**	**0-3**
ISN	II	15 06 32 38.0–3.6	38.21N	44.29E	0	2.7L		¶16358606
CSEM	II	15 06 32 49.9–.82	37.68N	43.99E	5	3.0		
ISK	II	15 06 32 49.8	37.69N	43.95E	6	2.8		
DDA	II	15 06 32 54.5	37.77N	43.65E	5	3.0		

ISC Event type ke.
ISN Error ellipse: s-maj=51.1km s-min=34.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=17.0km s-min=6.4km az=87.0.
DDA Event type ke.

ISC	**II**	**15 17 34 34.6–2.0**	**37.69N–.04**	**44.01E–.09**	**3–12**		**27**	**0-3**
CSEM	II	15 17 34 31.2–1.2	37.65N	44.33E	5	2.7		¶16494538
ISK	II	15 17 34 35.1	37.67N	43.93E	5	2.8		
DDA	II	15 17 34 38.4	37.83N	43.83E	8	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=23.5km s-min=8.4km az=101.0.
DDA Event type ke.

ISC	**II**	**15 18 05 51.6–2.5**	**37.64N–.05**	**44.2E–.10**	**2–14**		**24**	**0-3**
ISN	II	15 18 05 38.8–4.5	38.00N	44.23E	0	2.7L		¶16358611
CSEM	II	15 18 05 49.6–1.3	37.65N	44.40E	2	2.9		
ISK	II	15 18 05 53.1	37.67N	44.00E	5	2.8		
DDA	II	15 18 05 57.1	37.75N	43.99E	3	2.9		

ISC Event type ke.
ISN Error ellipse: s-maj=55.6km s-min=40.1km az=-1.0.

CSEM Event type ke. Error ellipse: s-maj=25.6km s-min=11.0km az=94.0.
DDA Event type ke.
ISC II 21 10 59 51.3–1.2 38.61N–.03 44.13E–.03 12–10 50 1-2
NSSP II 21 10 59 46.5 38.48N 44.08E 12 3.0s ¶16494701
TEH II 21 10 59 48.6 38.63N 44.14E 5 2.6L
DDA II 21 10 59 49.4 38.47N 44.21E 7 2.8
CSEM II 21 10 59 50.3–.38 38.52N 44.19E 2 3.2
ISK II 21 10 59 51.5 38.64N 44.03E 12 3.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=7.2km az=4.0.
ISC II 22 13 55 02.0–.71 38.56N–.02 44.20E–.02 11–5 113 1-5
AZER II 22 13 54 53.9–1.8 38.16N 43.22E 2 ¶16494757
NSSP II 22 13 54 57.0 38.35N 44.12E 6 3.4s
DDA II 22 13 55 00.2 38.46N 44.30E 6 3.4
TEH II 22 13 55 00.3 38.51N 44.02E 5 3.7L
ISK II 22 13 55 02.8 38.59N 44.11E 3 3.6L
CSEM II 22 13 55 03.9–.19 38.58N 44.10E 2 3.6L
ISC Event type ke.
AZER Error ellipse: s-maj=13.0km s-min=8.5km az=59.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.6km az=160.0.
ISC III 04 09 56 40.2–1.1 38.56N–.03 44.20E–.02 9–11 35 1-2
NSSP III 04 09 56 35.4 38.47N 44.10E 5 3.0s ¶16495054
TEH III 04 09 56 37.8 38.42N 44.01E 0 2.9L
ISK III 04 09 56 38.6 38.59N 44.22E 5 2.8
CSEM III 04 09 56 39.9–.30 38.57N 44.22E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=6.1km az=13.0.
ISC III 04 23 11 48.0–1.3 38.63N–.03 44.26E–.03 1–11 41 1-2
TEH III 04 23 11 47.7 38.61N 44.09E 10 2.6L ¶16495070
ISK III 04 23 11 47.4 38.55N 44.23E 4 3.0L
CSEM III 04 23 11 48.1–.27 38.55N 44.27E 2 3.0L
DDA III 04 23 11 58.2 38.58N 43.43E 12 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=16.0.
ISC III 10 10 04 55.8–.67 38.65N–.02 44.19E–.01 10–5 3.7b 176 1-78
NSSC III 10 10 04 39.5–.77 40.34N 44.80E 37–999 3.4L ¶16298805
ISN III 10 10 04 41.0–4.5 38.95N 44.20E 0 3.9L
NSSP III 10 10 04 53.7 38.40N 44.28E 7 3.9s
ISK III 10 10 04 54.6 38.65N 44.20E 5 3.8L
DDA III 10 10 04 54.4 38.61N 44.19E 5 3.8L
CSEM III 10 10 04 57.2–.16 38.62N 44.03E 2 3.8L
TEH III 10 10 04 57.0 38.66N 44.28E 9 3.9L
AZER III 10 10 04 58.7–.81 38.62N 44.15E 2 3.9L
IDC III 10 10 04 59.0–.88 38.87N 44.26E 0 3.7,3.6
ISC Event type ke.
NSSC Error ellipse: s-maj=927.1km s-min=999.9km az=-1.0.
ISN Error ellipse: s-maj=60.4km s-min=26.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.8km az=166.0.
AZER Error ellipse: s-maj=7.5km s-min=5.4km az=173.0.
IDC Error ellipse: s-maj=15.0km s-min=11.7km az=11.0.
ISC III 14 18 57 10.5–.55 38.62N–.02 44.16E–.01 1–3 4.5b 488 1-78
AZER III 14 18 57 00.5–1.4 38.14N 43.11E 2 4.5b ¶16314308
NSSP III 14 18 57 04.3 38.47N 44.10E 15 4.6s
ISK III 14 18 57 09.3 38.66N 44.20E 5 4.6L
DDA III 14 18 57 09.8 38.60N 44.17E 12 4.6L
BJI III 14 18 57 10.0 38.70N 44.20E 5 5.3b,5.1s
NEIC III 14 18 57 10.9–.78 38.73N 44.11E 4–5 4.8,4.7b
IDC III 14 18 57 10.0–.45 38.66N 44.07E 0 4.3,4.3
CSEM III 14 18 57 11.8–.11 38.67N 44.14E 5 4.6b,4.3
ISCJB III 14 18 57 11.2–.14 38.63N–.02 44.15E–.01 10 4.5b,4.3
MOS III 14 18 57 11.8–1.3 38.56N 44.12E 24 4.8b,4.3
THR III 14 18 57 13.3–.57 38.72N 44.37E 14–10 4.3L,4.3
TEH III 14 18 57 13.1 38.47N 44.20E 5 4.8L,4.3
ISC Event type ke.
AZER Error ellipse: s-maj=13.6km s-min=10.9km az=135.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=3.6km az=179.0.
IDC Error ellipse: s-maj=8.8km s-min=6.7km az=133.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=177.6.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=110.1.
THR Error ellipse: s-maj=4.0km s-min=5.8km az=-1.0.
ISC III 14 19 00 36.7–1.1 38.60N–.02 44.21E–.02 5–10 81 1-3
AZER III 14 19 00 32.5–3.3 38.05N 44.13E 2 ¶16314737
NSSP III 14 19 00 32.5 38.38N 44.30E 7 3.1s
ISK III 14 19 00 36.8 38.66N 44.21E 9 3.3
DDA III 14 19 00 36.8 38.63N 44.19E 8 3.3
CSEM III 14 19 00 37.9–.26 38.64N 44.13E 2 3.3
ISC Event type ke.
AZER Error ellipse: s-maj=36.7km s-min=18.0km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=150.0.
ISC III 14 23 07 44.0–1.8 38.65N–.03 44.23E–.08 8–11 35 1-2
DDA III 14 23 07 42.8 38.77N 44.19E 7 ¶16495320
ISCJB III 14 23 07 44.2–1.3 38.63N–.04 44.25E–.08 10–6
CSEM III 14 23 07 44.1–.48 38.61N 44.23E 10 3.0
ISK III 14 23 07 44.0 38.60N 44.20E 11 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.6km az=0.1.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.5km az=86.0.
ISC III 14 23 28 10.9–1.1 38.68N–.02 44.17E–.01 5–8 3.7b 191 1-78
AZER III 14 23 28 03.0–.82 38.23N 43.68E 5 3.7b ¶16478010
IDC III 14 23 28 04.2–3.0 38.22N 44.73E 0 3.8,3.6b
NSSP III 14 23 28 06.2 38.52N 44.08E 5 3.6s,3.6b
ISK III 14 23 28 09.5 38.74N 44.16E 5 3.6L,3.5
DDA III 14 23 28 09.3 38.73N 44.24E 14 3.6L,3.5
CSEM III 14 23 28 10.7–.16 38.67N 44.18E 2 3.5,3.5
TEH III 14 23 28 11.0 38.81N 44.13E 5 3.4L,3.5
ISC Event type ke.
AZER Error ellipse: s-maj=6.2km s-min=3.9km az=54.0.
IDC Error ellipse: s-maj=45.0km s-min=19.1km az=135.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=163.0.
ISC III 14 23 34 24.1–1.1 38.59N–.02 44.18E–.02 8–9 112 1-4
NSSP III 14 23 34 20.9 38.52N 44.17E 5 3.2s ¶16495321
DDA III 14 23 34 22.8 38.57N 44.25E 1 3.2s
ISK III 14 23 34 24.7 38.64N 44.02E 11 3.3L,3.3
AZER III 14 23 34 25.0–45 38.40N 44.29E 5–0 3.3L,3.3
CSEM III 14 23 34 25.7–.23 38.57N 44.01E 2 3.3,3.3
TEH III 14 23 34 25.6 38.74N 44.20E 1 3.4L,3.3
ISC Event type ke.
AZER Error ellipse: s-maj=12.1km s-min=1.8km az=229.0.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.5km az=159.0.
ISC III 15 01 01 44.0–1.4 38.60N–.03 44.19E–.05 5–12 40 1-3
NSSP III 15 01 01 38.8 38.35N 44.18E 7 2.9L ¶16495326
CSEM III 15 01 01 43.5–.62 38.57N 44.20E 2 3.5
ISK III 15 01 01 43.0 38.61N 44.19E 5 3.5
DDA III 15 01 01 43.0 38.60N 44.23E 7 3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.3km s-min=8.3km az=91.0.
ISC III 15 04 46 08.9–2.2 38.61N–.04 44.29E–.08 5–13 29 1-1
CSEM III 15 04 46 08.4–.36 38.60N 44.32E 10 2.8 ¶16495333
ISCJB III 15 04 46 08.3–1.4 38.59N–.04 44.32E–.08 5–7 2.8
ISK III 15 04 46 08.2 38.58N 44.27E 10 2.8
DDA III 15 04 46 09.7 38.60N 44.24E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.0km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=7.4km az=2.5.
ISC III 16 08 06 22.4–2.1 38.45N–.05 44.51E–.09 9–11 27 1-2
CSEM III 16 08 06 23.0–.64 38.45N 44.50E 8 2.7 ¶16495352
ISK III 16 08 06 23.1 38.46N 44.42E 12 3.2
DDA III 16 08 06 29.4 38.59N 44.15E 7 3.2

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=6.8km az=91.0.
ISK III 20 08 04 33.9 37.24N 44.10E 12 2.9 ¶16495465
ISC III 20 12 25 49.7–1.2 38.47N–.04 44.38E–.03 7–11 29 1-2
TEH III 20 12 25 48.7 38.38N 44.26E 0 2.6L ¶16495474
ISK III 20 12 25 48.2 38.48N 44.43E 5 3.3
CSEM III 20 12 25 49.7–.30 38.46N 44.37E 2 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=5.1km az=16.0.
ISC III 20 17 09 16.9–2.4 38.29N–.05 44.7E–.10 8–11 28 1-3
CSEM III 20 17 09 16.1–.94 38.24N 44.75E 8 3.1 ¶16495478
ISK III 20 17 09 18.5 38.28N 44.58E 26 3.1
DDA III 20 17 09 18.3 38.15N 44.59E 4 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.1km s-min=12.2km az=74.0.
ISC III 20 21 27 37.5–1.4 38.68N–.03 44.09E–.06 8–10 43 0-2
DDA III 20 21 27 32.9 38.60N 44.31E 5 ¶16495483
ISK III 20 21 27 36.5 38.68N 44.10E 6 3.1
CSEM III 20 21 27 38.1–.75 38.66N 43.97E 2 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.2km s-min=7.9km az=104.0.
ISC III 27 22 58 05.3–1.4 38.65N–.04 44.29E–.08 7 23 1-2
CSEM III 27 22 58 05.9–.62 38.61N 44.24E 2 2.9 ¶16495745
ISK III 27 22 58 05.0 38.61N 44.21E 5 2.7
DDA III 27 22 58 07.1 38.65N 44.17E 7 2.7
ISCJB III 27 22 58 07.2–1.3 38.65N–.04 44.2E–.10 7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 04 07 25 53.2–1.8 37.57N–.05 44.19E–.08 6–11 36 0-3
CSEM IV 04 07 25 52.5–.90 37.56N 44.24E 2 2.9 ¶16648075
DDA IV 04 07 25 52.0 37.55N 44.24E 7 2.9
ISK IV 04 07 25 53.1 37.62N 43.99E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.5km s-min=8.8km az=121.0.
DDA Event type ke.
ISC IV 06 01 31 13.3–1.8 38.58N–.03 44.34E–.07 6–14 32 1-2
ISK IV 06 01 31 13.5 38.54N 44.25E 13 2.5 ¶16648171
DDA IV 06 01 31 15.9 38.59N 44.22E 7 2.6
CSEM IV 06 01 31 15.5–.87 38.62N 44.25E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.3km s-min=9.5km az=94.0.
ISC IV 06 01 31 47.9–1.3 38.59N–.03 44.23E–.04 6–11 50 1-3
ISK IV 06 01 31 46.2 38.58N 44.30E 6 3.0L,3.0 ¶16648174
CSEM IV 06 01 31 47.2–.48 38.57N 44.25E 2 3.1,3.0
NSSP IV 06 01 31 47.2 38.47N 44.27E 6 3.0s,3.0
DDA IV 06 01 31 48.8 38.66N 44.12E 6 3.1,3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=7.5km az=111.0.
ISC IV 23 18 48 36.3–.95 38.83N–.02 44.58E–.02 17–9 99 1-4
TEH IV 23 18 48 33.1 38.91N 44.21E 8 3.2L ¶16649218
NSSP IV 23 18 48 34.7 38.83N 44.57E 10 3.2s
DDA IV 23 18 48 38.1 38.93N 44.44E 1 3.3L
ISK IV 23 18 48 39.6 38.94N 44.37E 5 3.7
AZER IV 23 18 48 41.0–2.5 39.04N 44.48E 5 3.7
CSEM IV 23 18 48 41.2–.22 38.90N 44.34E 5 3.7
ISN IV 23 18 48 45.5–1.1 38.15N 43.83E 3–5 3.3L
ISC Event type ke.
AZER Error ellipse: s-maj=3.6km s-min=1.8km az=238.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=162.0.
ISN Error ellipse: s-maj=7.5km s-min=3.2km az=-1.0.
ISC IV 23 18 51 41.3–2.3 38.98N–.07 44.4E–.10 5 10 0-2 ¶603516141
ISC Event type ke.
ISC IV 28 20 59 17.3–1.2 38.49N–.04 44.55E–.03 5–13 29 1-3
NSSP IV 28 20 59 16.9 38.60N 44.62E 5 2.9s ¶16649517
CSEM IV 28 20 59 18.9–.39 38.63N 44.62E 2 2.6L
TEH IV 28 20 59 19.7 38.60N 44.60E 5 2.6L
ISK IV 28 20 59 20.7 38.65N 44.30E 5 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=7.3km az=13.0.
TEH V 30 02 44 34.5 37.58N 44.75E 9 2.6L
ISN V 30 02 44 18.6–18 37.56N 44.79E 0–999 2.6L ¶602004422
CSEM V 30 02 44 34.5 37.58N 44.75E 9 2.6L
ISN Error ellipse: s-maj=112.1km s-min=168.1km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

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ISC I 07 22 32 07.6–3.1 40.0N–.20 44.99E–.09 9 13 1-2
CSEM I 07 22 32 08.0–.91 40.01N 44.97E 2 2.8 ¶600243192
TIF I 07 22 32 11.3 40.24N 44.95E 23–4 2.8
DDA I 07 22 32 16.2 40.58N 44.59E 28 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=20.9km s-min=7.3km az=160.0.
DDA Event type ke.
ISC I 10 01 05 07.0–1.9 39.75N–.07 45.12E–.08 9 22 1-3
DDA I 10 01 05 06.5 39.80N 45.14E 7 3.2 ¶15972516
CSEM I 10 01 05 07.4–.75 39.76N 45.10E 2 3.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.4km s-min=8.1km az=133.0.
ISC I 14 03 21 42.9–1.1 38.47N–.02 45.49E–.02 2–9 3.6b 130 0-46
NSSP I 14 03 21 36.4 38.47N 45.40E 5 3.6s ¶15968919
AZER I 14 03 21 42.0–.00 38.17N 45.45E 9–0 3.6s
TEH I 14 03 21 42.3 38.38N 45.30E 5 3.6L
IDC I 14 03 21 43.2–1.3 38.50N 45.44E 0 3.7b,3.5
THR I 14 03 21 43.4–.39 38.58N 45.46E 14–6 3.5L,3.5
CSEM I 14 03 21 44.1–.37 38.15N 45.40E 5 3.6L,3.5
ISC Event type ke.
AZER Error ellipse: s-maj=13.5km s-min=1.6km az=233.0.
IDC Error ellipse: s-maj=17.4km s-min=14.4km az=169.0.
THR Error ellipse: s-maj=4.0km s-min=2.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.1km az=27.0.
ISC I 31 01 19 40.8–1.1 39.46N–.02 47.84E–.02 17–8 3.5b 124 0-26
NSSP I 31 01 19 36.8 39.43N 47.80E 5 3.5s ¶17191373
IDC I 31 01 19 38.1–2.7 39.61N 47.90E 0 3.8L,3.7
AZER I 31 01 19 39.9–.00 39.44N 47.91E 12 3.8L,3.7
THR I 31 01 19 41.2–.43 39.51N 47.93E 25–8 3.5L,3.7
ISCJB I 31 01 19 42.6–.38 39.47N–.02 47.91E–.03 24–4 3.2b,3.7
CSEM I 31 01 19 42.4–.13 39.49N 47.87E 20 3.5L,3.7
TEH I 31 01 19 43.4 39.40N 47.85E 10 3.6L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=64.2km s-min=20.4km az=22.0.
AZER Error ellipse: s-maj=0.6km s-min=0.1km az=246.0.
THR Error ellipse: s-maj=6.7km s-min=5.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=169.9.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=67.0.
ISC II 24 16 39 08.1–1.1 39.17N–.02 44.42E–.02 11–9 57 0-3
NSSP II 24 16 39 05.3 39.03N 44.48E 5 2.8L ¶16494851
TEH II 24 16 39 06.3 39.11N 44.30E 5 2.5L
ISK II 24 16 39 06.7 39.22N 44.40E 5 2.9
CSEM II 24 16 39 07.5–.30 39.21N 44.45E 2 2.9
DDA II 24 16 39 09.4 39.20N 44.31E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=5.2km az=1.0.
DDA Event type ke.
ISC II 25 00 56 57.7–1.3 39.53N–.03 44.74E–.03 7–12 30 1-2
TEH II 25 00 56 57.2 39.38N 44.41E 4 2.6L ¶601609963
DDA II 25 00 56 57.8 39.58N 44.70E 6 2.9
CSEM II 25 00 56 58.3–.46 39.52N 44.73E 5 2.9

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=8.6km az=40.0.
ISC III 10 10 32 11.2–1.0 39.60N–.03 44.60E–.03 11–10 60 1-5
NSSP III 10 10 32 09.8 39.60N 44.47E 5 3.0s **¶16495185**
ISK III 10 10 32 11.9 39.60N 44.39E 5 3.1
CSEM III 10 10 32 11.1–.28 39.58N 44.57E 2 3.0L
DDA III 10 10 32 12.5 39.64N 44.37E 4 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=138.0.
ISC III 17 02 32 32.8–1.1 38.45N–.04 45.56E–.03 16–8 38 0-3
TEH III 17 02 32 31.1 38.40N 45.25E 18 2.7L **¶16495370**
CSEM III 17 02 32 34.3–.27 38.44N 45.59E 10 3.6
DDA III 17 02 32 36.1 38.40N 45.26E 7 3.6
ISK III 17 02 32 38.4 38.48N 45.07E 4 3.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=6.0km az=14.0.
ISC III 22 15 45 50.3–1.6 39.13N–.03 44.06E–.08 10–7 28 0-2
ISK III 22 15 45 49.6 39.17N 44.09E 9 2.8 **¶16495539**
CSEM III 22 15 45 50.6–.53 39.12N 44.06E 2 2.8
DDA III 22 15 45 51.3 39.12N 44.01E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=5.4km az=75.0.
ISC III 22 21 54 25.1–1.4 39.44N–.04 44.05E–.05 4–11 37 0-3
DDA III 22 21 54 22.2 39.52N 43.11E 8 **¶16495548**
ISK III 22 21 54 24.1 39.41N 43.99E 5 2.9
CSEM III 22 21 54 26.0–.39 39.40N 43.92E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=6.3km az=83.0.
ISC III 25 09 52 18.2–.74 39.20N–.02 47.43E–.03 38–2 4.1b 171 1-78
IDC III 25 09 52 12.4–1.2 38.96N 47.44E 0 4.1,4.0 **¶16359879**
AZER III 25 09 52 13.5–.31 39.29N 47.42E 4 4.1,4.0
THR III 25 09 52 14.3–.98 39.50N 47.46E 14–10 4.4L,4.0
NSSP III 25 09 52 15.1 39.23N 47.27E 15 4.4s,4.0
ISN III 25 09 52 15.6–11 39.15N 45.33E 0–62 4.4L,4.0
MOS III 25 09 52 16.6–1.3 39.48N 47.65E 15 4.4b,4.0
TEH III 25 09 52 16.1 39.32N 47.38E 11 4.3L,4.0
CSEM III 25 09 52 16.9–.19 39.24N 47.40E 15 4.2b,4.0
NEIC III 25 09 52 16.1 39.32N 47.38E 11 4.3,4.0b
ISCJB III 25 09 52 18.9–.23 39.18N–.02 47.43E–.03 57–3 4.0b,4.0b
NNC III 25 09 52 29.0–16 39.68N 49.22E 6–135 4.4b,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=10.4km az=8.0.
AZER Error ellipse: s-maj=1.3km s-min=1.0km az=42.0.
THR Error ellipse: s-maj=11.8km s-min=7.0km az=-1.0.
ISN Error ellipse: s-maj=71.6km s-min=60.6km az=-1.0.
MOS Error ellipse: s-maj=10.6km s-min=8.9km az=64.8.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=57.0.
NEIC Event type se. After TEH.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.2km az=177.0.
NNC Event type se. Error ellipse: s-maj=152.6km s-min=67.1km az=85.0.
ISC III 25 11 17 17.1–1.1 39.23N–.02 47.37E–.02 7–10 87 1-2
ISCJB III 25 11 17 17.6–.56 39.22N–.02 47.38E–.03 3–5 **¶600084522**
TEH III 25 11 17 18.6 39.26N 47.34E 11 3.0L
CSEM III 25 11 17 18.5–.13 39.20N 47.39E 10 3.2L
NSSP III 25 11 17 19.0 39.20N 47.13E 11 3.2s
AZER III 25 11 17 19.7–.03 39.23N 47.53E 35–0 3.2s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=136.3.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=77.0.
AZER Error ellipse: s-maj=1.7km s-min=1.1km az=241.0.
ISC III 25 11 24 58.1–1.1 39.23N–.02 47.36E–.02 7–9 111 1-4
NSSP III 25 11 24 58.8 39.22N 47.20E 10 3.4s **¶600084523**
AZER III 25 11 24 58.8–.58 39.19N 47.47E 28 3.4s
TEH III 25 11 24 59.1 39.29N 47.39E 9 3.4L
CSEM III 25 11 24 59.0–.15 39.21N 47.38E 2 3.4L
ISC Event type ke.
AZER Error ellipse: s-maj=1.7km s-min=0.7km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=69.0.
ISC III 28 10 26 39.3–.99 38.43N–.04 45.38E–.03 17–8 28 0-3
NSSP III 28 10 26 35.2 38.33N 45.22E 10 3.1s **¶600084524**
TEH III 28 10 26 36.8 38.36N 45.15E 11 3.0L
CSEM III 28 10 26 39.5–1.2 38.54N 45.39E 2 3.0L
ISCJB III 28 10 26 40.4–.69 38.36N–.06 45.44E–.06 19–9 3.0L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
TEH IV 03 05 29 56.3 39.45N 44.60E 6 2.5L
CSEM IV 03 05 29 56.3 39.45N 44.60E 6 2.5L **¶602003829**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 03 13 05 38.6–1.8 38.44N–.05 45.31E–.07 15–15 24 0-3
NSSP IV 03 13 05 36.4 38.45N 45.23E 14 3.2s **¶600084525**
TEH IV 03 13 05 38.9 38.41N 45.20E 14 3.0L
CSEM IV 03 13 05 39.9–1.1 38.45N 45.36E 2 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=26.8km s-min=13.6km az=66.0.
ISC IV 19 01 36 25.9–1.1 38.44N–.03 45.24E–.02 14–10 99 0-4
NSSP IV 19 01 36 21.9 38.42N 45.23E 15 3.2s **¶16648976**
TEH IV 19 01 36 24.5 38.43N 45.03E 20 2.9L
AZER IV 19 01 36 26.4–25 38.60N 45.02E 4 2.9L
ISK IV 19 01 36 27.0 38.46N 45.01E 5 3.0L
CSEM IV 19 01 36 28.6–.27 38.48N 44.94E 2 3.0L
ISC Event type ke.
AZER Error ellipse: s-maj=11.5km s-min=7.6km az=250.0.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.5km az=162.0.
ISC IV 20 01 18 42.6–1.0 38.48N–.02 45.15E–.02 10–10 104 0-4
NSSP IV 20 01 18 38.8 38.43N 45.43E 11 3.2s **¶600084530**
AZER IV 20 01 18 41.4–1.1 38.41N 45.02E 2 3.2s
TEH IV 20 01 18 41.3 38.44N 45.03E 7 3.0L
CSEM IV 20 01 18 44.8–.33 38.40N 44.89E 2 3.0L
DDA IV 20 01 18 54.6 38.49N 44.79E 8 2.9L
ISC Event type ke.
AZER Error ellipse: s-maj=2.4km s-min=0.7km az=249.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.9km az=168.0.
ISC IV 27 23 26 04.0–1.2 38.43N–.04 45.44E–.04 23–9 25 0-3
CSEM IV 27 23 26 00.6–.65 38.41N 45.18E 10 3.0L **¶600084533**
NSSP IV 27 23 26 00.3 38.38N 45.32E 10 3.0s
TEH IV 27 23 26 01.5 38.38N 45.18E 11 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=7.0km az=60.0.
ISC V 07 03 06 11.2–2.4 38.28N–.09 45.2E–.10 15 20 0-2
CSEM V 07 03 06 11.5–.70 38.33N 45.27E 2 2.7L **¶600084536**
NSSP V 07 03 06 11.3 38.45N 45.30E 8 3.0s
TEH V 07 03 06 11.0 38.35N 45.17E 8 2.7L
ISCJB V 07 03 06 13.3–1.8 38.3N–.10 45.3E–.10 15 2.7L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 15 10 49 20.8–1.1 38.57N–.02 45.13E–.01 4–10 163 0-8
ISN V 15 10 49 11.6–1.5 39.07N 45.15E 0–85 3.6L **¶16596541**
NSSP V 15 10 49 14.0 38.55N 45.22E 5 3.6s
CSEM V 15 10 49 20.6–.23 38.62N 45.21E 2 3.8L
TEH V 15 10 49 21.0 38.53N 44.98E 8 3.8L
AZER V 15 10 49 21.7–.00 38.63N 45.07E 12–0 3.8L
ISK V 15 10 49 24.6 38.52N 44.75E 5 3.4L
THR V 15 10 49 25.0–.36 39.35N 45.45E 14–13 3.5L
DDA V 15 10 49 26.3 38.58N 44.60E 5 3.3
ISC Event type ke.
ISN Error ellipse: s-maj=105.1km s-min=32.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=155.0.
AZER Error ellipse: s-maj=3.0km s-min=1.2km az=234.0.
THR Error ellipse: s-maj=17.8km s-min=3.6km az=-1.0.
ISC V 15 12 24 50.0–1.5 38.52N–.06 45.20E–.09 15 13 0-4
TEH V 15 12 24 47.0 38.55N 44.93E 5 2.7L **¶602004287**
CSEM V 15 12 24 47.0 38.55N 44.93E 5 2.7L
ISCJB V 15 12 24 49.1–1.2 38.52N–.07 45.12E–.09 15 2.7L
ISC Event type ke.
ISCJB Event type ke.
ISC V 25 08 32 09.5–3.2 39.7N–.20 44.53E–.06 7 7 1-2
TEH V 25 08 32 11.6 39.63N 44.51E 19 2.9L **¶602004375**
ISC Event type ke.
ISC V 26 03 21 41.8–1.0 38.80N–.02 48.77E–.03 33–2 94 0-13
AZER V 26 03 21 39.3–.42 38.79N 48.78E 39 **¶17002829**
ISCJB V 26 03 21 40.4–.48 38.76N–.02 48.79E–.05 47–5
CSEM V 26 03 21 40.9–.15 38.76N 48.77E 35–2 3.0L
TEH V 26 03 21 41.7 38.62N 48.70E 23 2.9L
ISC Event type ke.
AZER Error ellipse: s-maj=1.5km s-min=0.8km az=251.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=177.6.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=81.0.
ISC VI 04 18 23 18.1–1.2 39.90N–.03 45.30E–.05 5–12 58 0-3
MOS VI 04 18 23 17.9–1.6 39.62N 45.28E 8 3.9b **¶16558743**
TIF VI 04 18 23 18.7 39.81N 45.38E 13–2 3.9b
TEH VI 04 18 23 19.1 39.84N 45.05E 5 3.1L
CSEM VI 04 18 23 21.2–.33 39.72N 45.12E 2 3.1L
ISC Event type ke.
MOS Error ellipse: s-maj=31.0km s-min=7.6km az=101.3.
CSEM Event type ke. Error ellipse: s-maj=29.1km s-min=5.5km az=62.0.
TEH VI 15 05 10 00.6 38.28N 45.31E 15 2.5L
CSEM VI 15 05 10 00.6 38.28N 45.31E 15 2.5L **¶602004558**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 28 18 19 00.9–4.3 39.94N–.07 48.4E–.30 58 8 2-4
TEH VI 28 18 19 03.7 39.77N 48.04E 18 2.7L **¶602004661**
ISC Event type ke.

(345) Northwestern Iran.

ISC III 03 18 22 14.4–1.4 37.71N–.03 48.57E–.03 3–11 3.3b 72 1-26
AZER III 03 18 22 11.7–1.2 37.66N 48.95E 5 3.3b **¶17193204**
TEH III 03 18 22 15.9 37.75N 48.69E 7 3.4L
CSEM III 03 18 22 16.4–.24 37.70N 48.68E 5 3.4L
IDC III 03 18 22 18.0–2.8 37.98N 48.64E 0 3.5,3.5
ISC Event type ke.
AZER Error ellipse: s-maj=2.5km s-min=1.7km az=318.0.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=4.9km az=69.0.
IDC Error ellipse: s-maj=35.9km s-min=32.9km az=51.0.
ISC III 04 09 46 28.9–.84 37.71N–.02 48.59E–.03 6–5 4.2b 250 1-79
ISN III 04 09 46 21.0–2.3 37.81N 49.15E 0–62 4.3L **¶16245307**
THR III 04 09 46 28.7–.31 37.73N 48.61E 14–2 4.3L
IDC III 04 09 46 28.8–1.1 37.83N 48.54E 0 4.0,4.0
NEIC III 04 09 46 28.8 37.73N 48.61E 14 4.6b,4.3L
AZER III 04 09 46 28.3–5.0 37.79N 48.63E 2 4.6b,4.3L
TEH III 04 09 46 30.0 37.82N 48.34E 31 4.3L,4.3L
MOS III 04 09 46 31.6–1.7 37.87N 48.67E 23 4.4b,4.3L
CSEM III 04 09 46 31.7–.15 37.72N 48.64E 20 4.3b,4.3L
NNC III 04 09 46 37.0–5.3 38.42N 49.04E 18–49 4.2b,4.3L
ISC Event type ke.
ISN Error ellipse: s-maj=19.3km s-min=95.6km az=-1.0.
THR Error ellipse: s-maj=1.4km s-min=2.9km az=-1.0.
IDC Error ellipse: s-maj=22.3km s-min=10.3km az=9.0.
NEIC Event type se. After THR.
AZER Error ellipse: s-maj=5.1km s-min=2.8km az=297.0.
MOS Error ellipse: s-maj=9.4km s-min=5.8km az=125.2.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=46.0.
NNC Event type se. Error ellipse: s-maj=32.9km s-min=26.3km az=51.0.
TEH V 01 01 50 48.4 37.16N 45.16E 5 2.7L
ISN V 01 01 50 46.3–.30 37.05N 44.31E 0 2.9L **¶602004148**
CSEM V 01 01 50 47.2–.22 37.19N 45.12E 5 2.7L
ISN Error ellipse: s-maj=1.7km s-min=3.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.9km az=155.0.
ISC V 10 13 04 25.7–1.2 37.70N–.05 48.45E–.04 10 23 1-3
AZER V 10 13 04 24.4–13 37.73N 48.61E 11–3 **¶601711349**
ISCJB V 10 13 04 25.6–.96 37.66N–.05 48.40E–.07 10
CSEM V 10 13 04 25.1–.39 37.66N 48.45E 2 2.6L
TEH V 10 13 04 26.5 37.63N 48.44E 5 2.6L
ISC Event type ke.
AZER Error ellipse: s-maj=4.7km s-min=3.9km az=339.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.5km az=44.1.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=6.7km az=137.0.
ISC V 24 15 01 22.8–1.0 38.17N–.02 47.74E–.02 6–10 89 0-4
AZER V 24 15 01 19.7–.07 38.11N 47.91E 2–0 **¶601711439**
CSEM V 24 15 01 21.5–.60 37.94N 47.95E 5 3.4L
TEH V 24 15 01 23.0 38.15N 47.78E 5 3.4L
ISC Event type ke.
AZER Error ellipse: s-maj=1.8km s-min=1.1km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=13.4km s-min=5.6km az=148.0.
ISC V 27 15 01 51.1–1.9 37.09N–.08 45.12E–.05 1–15 20 1-2
TEH V 27 15 01 49.6 36.98N 45.04E 10 2.7L **¶602004393**
CSEM V 27 15 01 49.6 36.98N 45.04E 10 2.7L
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 27 16 02 38.9–1.9 37.0N–.10 45.15E–.06 12 14 1-2
CSEM V 27 16 02 38.1 37.03N 45.05E 10 2.7L **¶602004396**
TEH V 27 16 02 38.1 37.03N 45.05E 10 2.7L
ISCJB V 27 16 02 40.1–1.2 37.16N–.07 45.22E–.06 12 2.7L
ISC Event type ke.
ISCJB Event type ke.
ISC V 30 03 56 44.4–1.4 37.13N–.04 45.28E–.02 0–11 51 1-4
ISN V 30 03 56 37.9–.50 37.25N 45.09E 0–2 3.4L **¶16596630**
DDA V 30 03 56 42.1 36.93N 45.20E 5 3.4L
TEH V 30 03 56 44.8 37.16N 45.09E 3 3.1L
CSEM V 30 03 56 45.5–.25 37.16N 45.33E 2 3.4
ISK V 30 03 56 51.4 37.49N 44.74E 5 3.4
ISC Event type ke.
ISN Error ellipse: s-maj=2.6km s-min=3.1km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.3km az=169.0.

(346) Iran-Iraq border region.

ISC I 02 00 02 59.2–1.4 36.69N–.05 44.17E–.03 4–12 46 1-4
ISN I 02 00 02 57.6–.30 36.64N 43.52E 0 3.4L **¶15998041**
CSEM I 02 00 02 59.9–.37 36.68N 44.26E 2 3.4
TEH I 02 00 03 00.6 36.71N 44.10E 17 2.6L
ISK I 02 00 03 01.1 36.77N 44.02E 5 3.4
DDA I 02 00 03 04.2 36.76N 43.78E 4 3.4
ISC Event type ke.
ISN Error ellipse: s-maj=0.9km s-min=1.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=6.4km az=14.0.
DDA Event type ke.
ISC I 12 20 21 57.0–.82 31.16N–.07 47.54E–.06 10 3.5b 55 1-86
ISCJB I 12 20 21 55.6–.62 31.13N–.06 47.51E–.05 10 3.6b,3.4s **¶17190017**
IDC I 12 20 21 56.0–1.4 31.31N 47.62E 0 3.8,3.6b
TEH I 12 20 21 57.9 31.18N 47.54E 5 3.8L,3.6b
CSEM I 12 20 21 57.9–.37 31.17N 47.57E 10 3.8L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.1km az=8.5.
IDC Error ellipse: s-maj=30.8km s-min=20.1km az=4.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.1km az=42.0.
ISC I 18 10 44 32.8–2.8 31.2N–.10 47.56E–.08 10 44 1-6
ISN I 18 10 44 25.2–.30 31.76N 47.74E 0 3.4L **¶15998144**
THR I 18 10 44 30.9–.56 31.05N 47.55E 15–8 3.5L
CSEM I 18 10 44 30.8–1.1 30.94N 47.39E 20 3.5L
TEH I 18 10 44 33.8 31.21N 47.57E 8 3.5L

ISC Event type ke.
ISN Error ellipse: s-maj=2.0km s-min=2.6km az=-1.0.
THR Error ellipse: s-maj=7.6km s-min=7.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=26.1km s-min=7.8km az=19.0.

TEH	**I**	**21 04 27 14.9**	**32.71N**	**46.77E**	**8**	**2.5L**		
ISN	I	21 04 26 47.5–.30	32.29N	46.61E	0	2.6L		¶15998157
CSEM	I	21 04 27 14.9	32.71N	46.77E	8	2.5L		

ISN Error ellipse: s-maj=2.5km s-min=2.0km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

TEH	**I**	**22 14 01 14.4**	**35.77N**	**45.53E**	**5**	**2.5L**		
CSEM	I	22 14 01 14.4	35.77N	45.53E	5	2.5L		¶601902859

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

TEH	**II**	**03 07 30 16.8**	**35.73N**	**46.07E**	**5**	**2.7L**		
ISN	II	03 07 30 11.8–6.4	35.46N	45.89E	0–25	2.7L		¶16358513
CSEM	II	03 07 30 16.8	35.73N	46.07E	5	2.7L		

ISN Error ellipse: s-maj=14.8km s-min=41.5km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**II**	**07 02 38 30.8–.43**	**31.21N–.05**	**47.49E–.04**	**35**	**4.2b,3.5s**	**255**	**1-90**
NSSC	II	07 02 38 23.9–1.5	31.00N	47.61E	10–158	3.8L,3.5s		¶16007796
IDC	II	07 02 38 26.5–.85	31.32N	47.60E	0	4.2,4.1		
CSEM	II	07 02 38 27.7–.18	31.18N	47.53E	10	4.2b,4.1		
THR	II	07 02 38 27.1–.40	31.08N	47.57E	18–5	4.2L,4.1		
NEIC	II	07 02 38 27.4	31.07N	47.56E	23	4.3,4.2L		
BJI	II	07 02 38 27.2	31.25N	47.53E	23	4.1b,4.2L		
ISCJB	II	07 02 38 28.7–.28	31.14N–.03	47.54E–.03	33	4.1b,3.5s		
TEH	II	07 02 38 29.1	31.20N	47.55E	6	4.4L,3.5s		
MOS	II	07 02 38 29.3–1.1	31.43N	47.65E	25	4.2b,3.5s		

ISC Event type ke.
NSSC Error ellipse: s-maj=77.9km s-min=159.5km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=11.5km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=3.0.
THR Error ellipse: s-maj=5.5km s-min=5.1km az=-1.0.
NEIC Event type se. After THR.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.1km az=1.2.
MOS Error ellipse: s-maj=9.4km s-min=5.2km az=107.1.

TEH	**II**	**08 18 22 50.4**	**31.45N**	**47.67E**	**32**	**2.9L**		
ISN	II	08 18 22 04.9–.30	31.35N	47.97E	0	2.9L		¶16358549
CSEM	II	08 18 22 50.4	31.45N	47.67E	32	2.9L		

ISN Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**II**	**13 09 30 57.4–.97**	**31.18N–.08**	**47.52E–.07**	**10**	**3.9b**	**47**	**1-86**
ISN	II	13 09 30 43.3–3.6	30.64N	47.71E	0	3.4L		¶16358599
ISCJB	II	13 09 30 55.5–.79	31.08N–.07	47.49E–.06	10	3.8b		
IDC	II	13 09 30 56.0–1.7	31.33N	47.58E	0	3.9,3.8		
TEH	II	13 09 30 58.7	31.21N	47.53E	5	3.7L,3.8		
CSEM	II	13 09 30 59.6–.62	31.17N	47.54E	20	3.7L,3.8		

ISC Event type ke.
ISN Error ellipse: s-maj=40.1km s-min=48.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.3km az=7.0.
IDC Error ellipse: s-maj=36.6km s-min=23.4km az=171.0.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=5.8km az=34.0.

ISC	**II**	**20 01 26 38.1–1.5**	**36.96N–.07**	**45.34E–.06**	**10**		**21**	**1-9**
ISN	II	20 01 26 23.3–4.5	37.03N	45.73E	0	3.2L		¶16358631
ISK	II	20 01 26 34.4	36.81N	45.31E	5	3.1L		
ISCJB	II	20 01 26 36.4–.80	36.99N–.07	45.40E–.06	10	3.1L		
CSEM	II	20 01 26 37.0–.34	36.99N	45.39E	5	3.2L		
TEH	II	20 01 26 37.6	36.98N	45.31E	5	3.2L		

ISC Event type ke.
ISN Error ellipse: s-maj=18.8km s-min=76.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.8km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=7.0km az=165.0.

TEH	**II**	**24 11 25 35.9**	**33.17N**	**46.45E**	**11**	**2.8L**		
CSEM	II	24 11 25 33.5–.34	33.14N	46.27E	2	2.8L		¶16354285
ISN	II	24 11 25 35.0–.31	33.19N	46.46E	11	2.8L		

CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=3.7km az=141.0.
ISN Error ellipse: s-maj=0.5km s-min=3.6km az=-1.0.

ISC	**II**	**26 10 48 56.8–.55**	**33.38N–.04**	**45.72E–.04**	**13**	**3.7b**	**57**	**0-83**
IDC	II	26 10 48 54.4–1.1	33.29N	45.92E	0	3.9,3.8		¶16354289
ISCJB	II	26 10 48 55.5–.32	33.40N–.03	45.71E–.03	13	3.6b,3.2s		
ISN	II	26 10 48 55.4–2.3	33.35N	45.60E	14–6	3.9L,3.2s		
TEH	II	26 10 48 57.3	33.37N	45.78E	4	3.9L,3.2s		
CSEM	II	26 10 48 57.8–.16	33.35N	45.71E	20	3.9L,3.2s		

ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=13.8km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=179.6.
ISN Error ellipse: s-maj=7.5km s-min=6.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=150.0.

ISC	**II**	**28 11 00 24.8–1.3**	**36.28N–.02**	**45.68E–.03**	**1–11**		**122**	**1-7**
ISK	II	28 11 00 18.8	35.94N	45.75E	2	4.2L		¶16354292
AZER	II	28 11 00 20.2–1.7	35.33N	45.45E	20	4.2L		
THR	II	28 11 00 24.2–.44	36.29N	45.59E	14–5	3.8L		
CSEM	II	28 11 00 25.4–.19	36.28N	45.64E	10	4.1L		
ISN	II	28 11 00 26.9–1.8	36.24N	45.50E	21–5	4.1L		
TEH	II	28 11 00 26.0	36.35N	45.69E	9	4.0L		

ISC Event type ke.
AZER Error ellipse: s-maj=14.8km s-min=8.5km az=156.0.
THR Error ellipse: s-maj=4.6km s-min=7.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=48.0.
ISN Error ellipse: s-maj=6.7km s-min=7.6km az=-1.0.

ISC	**II**	**28 11 03 07.4–1.4**	**36.35N–.03**	**45.71E–.03**	**2–11**		**58**	**1-22**
ISK	II	28 11 03 03.1	36.13N	46.05E	71	3.7L		¶16354293
TEH	II	28 11 03 07.6	36.37N	45.73E	9	3.4L		
CSEM	II	28 11 03 07.3–.21	36.36N	45.71E	10	3.6L		
ISN	II	28 11 03 07.6–1.7	36.27N	45.57E	20–5	3.6L		
AZER	II	28 11 03 15.5–3.9	36.25N	45.54E	8	3.6L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.4km az=95.0.
ISN Error ellipse: s-maj=6.8km s-min=7.5km az=-1.0.
AZER Error ellipse: s-maj=31.8km s-min=19.2km az=6.0.

ISC	**II**	**28 19 03 24.4–3.1**	**36.6N–.10**	**44.2E–.20**	**9–16**		**27**	**1-4**
ISK	II	28 19 03 24.8	36.67N	44.13E	14	3.0L		¶16354295
DDA	II	28 19 03 25.7	36.59N	43.87E	8	3.0		
CSEM	II	28 19 03 26.9–1.3	36.57N	43.84E	2	3.0L		
ISN	II	28 19 03 30.2–.30	36.58N	43.52E	0	3.0L		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=27.1km s-min=10.5km az=117.0.
ISN Error ellipse: s-maj=1.3km s-min=3.3km az=-1.0.

ISC	**III**	**01 12 06 45.1–.94**	**32.84N–.06**	**47.46E–.08**	**15**	**3.6b**	**51**	**1-84**
IDC	III	01 12 06 39.8–5.4	32.45N	47.43E	0	3.7,3.6		¶16484173
ISCJB	III	01 12 06 45.6–.39	32.94N–.03	47.58E–.03	15	3.5b,3.6		
TEH	III	01 12 06 46.6	32.88N	47.66E	6	3.4L,3.6		
CSEM	III	01 12 06 46.3–.68	32.89N	47.57E	10	3.1L,3.6		
ISN	III	01 12 06 50.4–1.9	32.85N	47.28E	0–6	3.4L,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=108.5km s-min=29.2km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=23.5.
CSEM Event type ke. Error ellipse: s-maj=17.8km s-min=6.7km az=49.0.
ISN Error ellipse: s-maj=7.1km s-min=11.1km az=-1.0.

TEH	**III**	**07 08 37 49.9**	**30.76N**	**48.16E**	**10**	**3.2L**		
ISN	III	07 08 37 47.3–.64	30.39N	47.76E	2–6	3.2L		¶16603384
CSEM	III	07 08 37 49.9	30.76N	48.16E	10	3.2L		

ISN Error ellipse: s-maj=14.7km s-min=8.8km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

TEH	**III**	**12 14 23 37.7**	**32.80N**	**47.19E**	**20**	**2.9L**		
ISN	III	12 14 23 33.6–.30	32.65N	46.48E	0	2.9L		¶16603454
CSEM	III	12 14 23 37.7	32.80N	47.19E	20	2.9L		

ISN Error ellipse: s-maj=1.0km s-min=3.3km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

TEH	**III**	**12 17 05 13.9**	**33.94N**	**45.68E**	**8**	**2.5L**		
ISN	III	12 17 05 11.3–.30	33.89N	45.57E	0	2.6L		¶16603455

ISN Error ellipse: s-maj=1.6km s-min=3.1km az=-1.0.

TEH	**III**	**13 06 12 28.0**	**32.62N**	**47.21E**	**5**	**3.1L**		
ISN	III	13 06 12 25.7–.30	32.66N	47.11E	0	3.1L		¶16630533
CSEM	III	13 06 12 28.0	32.62N	47.21E	5	3.1L		

ISN Error ellipse: s-maj=1.3km s-min=3.2km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

TEH	**III**	**13 15 15 38.7**	**35.51N**	**46.18E**	**10**	**2.5L**		
ISN	III	13 15 15 19.9–47	35.49N	45.59E	0	2.5L		¶16630534
CSEM	III	13 15 15 38.7	35.51N	46.18E	10	2.5L		

ISN Error ellipse: s-maj=17.4km s-min=290.1km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**16 18 46 03.6–.39**	**35.03N–.03**	**45.36E–.02**	**10**	**4.0b**	**241**	**1-81**
NSSC	III	16 18 45 57.2–3.0	34.97N	46.29E	118–142	3.5L		¶16478641
ISN	III	16 18 45 59.8–1.2	35.28N	45.04E	1–13	4.1L		
AZER	III	16 18 46 00.7–1.6	34.25N	46.64E	10	4.1L		
ISCJB	III	16 18 46 02.7–.21	34.92N–.02	45.49E–.02	10	4.0b		
TEH	III	16 18 46 03.3	35.00N	45.24E	7	4.0L		
CSEM	III	16 18 46 04.6–.15	34.99N	45.56E	10	4.2b		
BJI	III	16 18 46 05.0	35.00N	45.50E	30	4.2b		
MOS	III	16 18 46 06.0–1.4	35.04N	45.57E	33	4.2b		
IDC	III	16 18 46 07.4–3.4	35.02N	45.53E	35–26	4.0,3.9b		
DDA	III	16 18 46 37.1	36.66N	43.67E	3	4.0,3.9b		

ISC Event type ke.
NSSC Error ellipse: s-maj=21.7km s-min=23.5km az=-1.0.
ISN Error ellipse: s-maj=5.3km s-min=8.8km az=-1.0.
AZER Error ellipse: s-maj=16.8km s-min=14.4km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=175.1.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=6.0.
MOS Error ellipse: s-maj=8.8km s-min=6.7km az=80.9.
IDC Error ellipse: s-maj=21.8km s-min=11.8km az=156.0.

ISC	**IV**	**04 17 53 23.7–3.7**	**33.2N–.10**	**46.5E–.20**	**10**		**15**	**0-5**
CSEM	IV	04 17 53 18.0–4.9	33.26N	45.98E	10	3.3L		¶602003835
ISN	IV	04 17 53 19.6–1.9	33.20N	46.35E	3–7	3.3L		
TEH	IV	04 17 53 22.6	33.08N	46.29E	10	3.3L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=117.1km s-min=31.6km az=81.0.
ISN Error ellipse: s-maj=11.0km s-min=10.9km az=-1.0.

ISC	**IV**	**06 19 17 15.9–.94**	**34.30N–.05**	**45.48E–.03**	**13–5**	**4.2b,3.0s**	**290**	**1-82**
ISN	IV	06 19 17 10.0–3.8	34.32N	45.53E	0–37	4.4L,3.0s		¶16413484
BJI	IV	06 19 17 13.4	34.52N	45.01E	15	4.9b,4.3b		
IDC	IV	06 19 17 13.9–.52	34.27N	45.60E	0	4.2,4.2b		
MOS	IV	06 19 17 16.9–1.3	34.20N	45.59E	33	4.3b,4.2b		
CSEM	IV	06 19 17 16.2–.16	34.29N	45.52E	10	4.2b,3.3s		
THR	IV	06 19 17 16.1–.38	34.32N	45.46E	14–6	4.3L,3.3s		
TEH	IV	06 19 17 17.5	34.31N	45.53E	5	4.4L,3.3s		
NEIC	IV	06 19 17 17.5	34.31N	45.53E	5	4.4,4.1b		
NSSC	IV	06 19 17 18.4–1.5	34.06N	45.39E	31–152	3.8L,3.2		
DSN	IV	06 19 17 27.4–1.6	34.15N	46.79E	16	3.8L,3.2		

ISC Event type ke.
ISN Error ellipse: s-maj=20.4km s-min=22.9km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=9.4km az=155.0.
MOS Error ellipse: s-maj=8.3km s-min=4.9km az=103.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=2.0.
THR Error ellipse: s-maj=2.8km s-min=5.2km az=-1.0.
NEIC Event type se. After TEH.
NSSC Error ellipse: s-maj=17.0km s-min=107.6km az=-1.0.
DSN Error ellipse: s-maj=30.1km s-min=10.9km az=61.0.

ISC	**IV**	**06 20 59 41.2–.42**	**34.29N–.05**	**45.50E–.03**	**18**	**4.0b,3.2s**	**235**	**1-82**
IDC	IV	06 20 59 38.8–.62	34.39N	45.48E	0	4.0,3.9		¶16413490
ISCJB	IV	06 20 59 39.5–.23	34.21N–.03	45.49E–.02	18	4.0b,3.2s		
BJI	IV	06 20 59 40.0	34.40N	45.60E	10	5.0b,4.6s		
THR	IV	06 20 59 40.2–.46	34.33N	45.42E	14–7	4.2L,4.6s		
MOS	IV	06 20 59 41.0–1.3	34.19N	45.53E	33	4.2b,4.6s		
CSEM	IV	06 20 59 41.2–.17	34.33N	45.55E	15	4.1b,4.6s		
NSSC	IV	06 20 59 41.7–1.5	34.08N	45.38E	10–142	3.8L,3.1		
TEH	IV	06 20 59 42.4	34.36N	45.56E	5	4.2L,3.1		
DSN	IV	06 20 59 50.7–.88	34.03N	46.49E	16	3.9b,3.1		
VIE	IV	06 20 59 50.1	34.42N	45.45E	85	3.7b,3.1		
ISN	IV	06 21 00 04.9–403	34.16N	45.49E	0–999	4.2L,3.1		

ISC Event type ke.
IDC Error ellipse: s-maj=13.9km s-min=10.2km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=9.9.
THR Error ellipse: s-maj=2.9km s-min=5.2km az=-1.0.
MOS Error ellipse: s-maj=9.9km s-min=5.0km az=101.5.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.0km az=11.0.
NSSC Error ellipse: s-maj=16.2km s-min=142.8km az=-1.0.
DSN Error ellipse: s-maj=14.7km s-min=4.1km az=69.0.
VIE Event type ke.
ISN Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.

ISC	**IV**	**06 21 22 30.2–.51**	**34.26N–.05**	**45.47E–.04**	**18**	**3.6b**	**137**	**1-81**
ISN	IV	06 21 22 21.5–2.2	34.38N	45.63E	5–21	3.9L		¶17200055
IDC	IV	06 21 22 27.9–.83	34.36N	45.57E	0	3.7,3.7		
ISCJB	IV	06 21 22 28.5–.24	34.13N–.03	45.39E–.02	18	3.6b,3.7		
NSSC	IV	06 21 22 28.7–1.5	34.30N	45.75E	30–220	3.2L,3.1		
THR	IV	06 21 22 29.4–.61	34.34N	45.43E	14–9	3.9L,3.1		
CSEM	IV	06 21 22 30.3–.17	34.21N	45.51E	10	3.9L,3.1		
TEH	IV	06 21 22 31.4	34.34N	45.55E	5	3.9L,3.1		
OMAN	IV	06 21 22 39.3–10	33.47N	45.73E	36–76	3.9L,3.1		
DSN	IV	06 21 22 40.3–1.9	33.72N	46.28E	15	3.9L,3.1		

ISC Event type ke.
ISN Error ellipse: s-maj=12.4km s-min=14.3km az=-1.0.
IDC Error ellipse: s-maj=17.7km s-min=13.2km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.2km az=1.1.
NSSC Error ellipse: s-maj=14.3km s-min=157.6km az=-1.0.
THR Error ellipse: s-maj=4.7km s-min=8.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.7km az=8.0.
OMAN Error ellipse: s-maj=121.7km s-min=85.7km az=159.0.
DSN Error ellipse: s-maj=83.8km s-min=11.3km az=33.0.

ISC	**IV**	**07 04 47 35.4–.90**	**34.29N–.03**	**45.57E–.03**	**15–5**	**4.5b,3.2s**	**439**	**1-87**
ISN	IV	07 04 47 30.3–7.8	34.08N	45.36E	0–78	4.5b,3.2s		¶16455866
BJI	IV	07 04 47 33.4	34.40N	45.60E	10	4.9b,4.7b		
IDC	IV	07 04 47 33.4–.49	34.33N	45.70E	0	4.4,4.4b		
ISCJB	IV	07 04 47 34.9–.56	34.38N–.02	45.53E–.02	22–4	4.5b,3.3s		
NSSC	IV	07 04 47 34.1–1.4	34.34N	45.46E	0–34	4.0L,3.0		
AZER	IV	07 04 47 36.0–.34	34.43N	45.58E	10	4.0L,3.0		
CSEM	IV	07 04 47 35.7–.11	34.34N	45.57E	15	4.5b,3.0		
TEH	IV	07 04 47 35.6	34.38N	45.48E	2	4.6L,3.0		
THR	IV	07 04 47 36.3–.32	34.36N	45.56E	17–4	4.4L,3.0		
NEIC	IV	07 04 47 36.4	34.36N	45.57E	18	4.6,4.6b		
MOS	IV	07 04 47 36.2–1.5	34.24N	45.71E	33	4.7b,4.6b		
DSN	IV	07 04 47 46.6–2.0	34.09N	46.60E	30	4.7b,4.6b		

ISC Event type ke.
ISN Error ellipse: s-maj=40.1km s-min=49.3km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=8.8km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=166.6.
NSSC Error ellipse: s-maj=10.9km s-min=61.9km az=-1.0.
AZER Error ellipse: s-maj=2.5km s-min=2.1km az=125.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=173.0.
THR Error ellipse: s-maj=2.4km s-min=3.3km az=-1.0.
NEIC Event type se. After THR.
MOS Error ellipse: s-maj=7.8km s-min=4.5km az=102.6.
DSN Error ellipse: s-maj=34.8km s-min=12.0km az=61.0.

TEH	**IV**	**07 04 57 46.6**	**34.37N**	**45.47E**	**7**	**3.3L**		
ISN	IV	07 04 57 44.5–20	34.27N	45.59E	0–170	3.3L		¶602003886
CSEM	IV	07 04 57 46.6	34.37N	45.47E	7	3.3L		

ISN Error ellipse: s-maj=91.2km s-min=112.7km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**IV**	**07 05 08 01.2–.57**	**34.31N–.06**	**45.49E–.04**	**18**	**3.6b**	**62**	**1-82**
ISN	IV	07 05 07 58.5–2.4	34.09N	45.37E	35	3.6L		¶17200081
IDC	IV	07 05 07 59.7–1.5	34.48N	45.36E	0	3.8,3.7		
TEH	IV	07 05 08 00.5	34.35N	45.49E	4	3.6L,3.7		

CSEM IV 07 05 08 00.4–.32 34.37N 45.53E 2 3.6L,3.7
ISCJB IV 07 05 08 00.4–.41 34.40N–.06 45.44E–.03 18 3.6b,3.7
NSSC IV 07 05 08 02.4–1.2 34.08N 45.24E 5–999 3.4L,3.7
THR IV 07 05 08 02.5–.45 34.48N 45.61E 18–7 3.5L,3.7
ISC Event type ke.
ISN Error ellipse: s-maj=51.5km s-min=63.3km az=-1.0.
IDC Error ellipse: s-maj=35.1km s-min=15.3km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=6.2km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.0km az=177.4.
NSSC Error ellipse: s-maj=13.5km s-min=18.2km az=-1.0.
THR Error ellipse: s-maj=9.6km s-min=9.1km az=-1.0.
ISC IV 07 05 16 13.7–.53 34.41N–.05 45.59E–.05 18 3.9b 63 1-82
ISN IV 07 05 15 57.1–.30 34.92N 45.03E 0 4.1L **¶16512214**
IDC IV 07 05 16 10.4–.77 34.38N 45.51E 0 4.0,3.9
ISCJB IV 07 05 16 11.7–.45 34.40N–.06 45.39E–.04 18 3.9b,3.3s
CSEM IV 07 05 16 11.1–.26 34.46N 45.42E 2 4.1L,3.3s
THR IV 07 05 16 12.0–.32 34.36N 45.48E 15–5 4.0L,3.3s
TEH IV 07 05 16 13.1 34.44N 45.49E 5 4.1L,3.3s
NEIC IV 07 05 16 13.0 34.44N 45.49E 5 4.1,3.6b
ISC Event type ke.
ISN Error ellipse: s-maj=2.1km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=16.0km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.1km az=9.8.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.7km az=14.0.
THR Error ellipse: s-maj=2.1km s-min=4.4km az=-1.0.
NEIC Event type se. After TEH.
TEH IV 07 05 37 19.0 34.33N 45.62E 7 3.5L
ISN IV 07 05 37 08.1–.30 34.77N 45.22E 0 3.5L **¶602003887**
CSEM IV 07 05 37 18.6–.71 34.55N 45.67E 2 3.5L
ISN Error ellipse: s-maj=2.1km s-min=2.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=15.4km s-min=9.4km az=53.0.
TEH IV 07 06 00 08.1 34.47N 45.48E 3 2.5L
¶602003902
ISC IV 08 04 27 46.1–.39 34.18N–.04 45.64E–.04 18 4.1b,3.2s 137 1-82
ISN IV 08 04 27 38.9–.30 34.97N 45.03E 0 4.3L,3.2s **¶16529576**
ISCJB IV 08 04 27 44.2–.24 34.14N–.03 45.55E–.03 18 4.1b,3.3s
NEIC IV 08 04 27 44.8 34.46N 45.46E 24 4.3L,4.3
THR IV 08 04 27 44.1–.43 34.37N 45.37E 18–7 4.3L,4.3
TEH IV 08 04 27 44.8 34.46N 45.46E 24 4.3L,4.3
CSEM IV 08 04 27 46.6–.18 34.32N 45.56E 20 4.1b,4.3
MOS IV 08 04 27 46.2–1.4 34.15N 45.64E 33 4.2b,4.3
OMAN IV 08 04 27 48.1–99 33.76N 45.60E 1–99 4.2b,4.3
IDC IV 08 04 27 48.9–2.3 34.38N 45.51E 33–17 4.0,3.9b
DSN IV 08 04 27 58.6–.92 33.98N 46.70E 30 4.0,3.9b
ISC Event type ke.
ISN Error ellipse: s-maj=2.0km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=5.0.
NEIC Event type se. After TEH.
THR Error ellipse: s-maj=8.7km s-min=9.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.1km az=176.0.
MOS Error ellipse: s-maj=10.2km s-min=6.2km az=86.8.
OMAN Error ellipse: s-maj=6246.0km s-min=110.6km az=310.0.
IDC Error ellipse: s-maj=16.5km s-min=10.0km az=142.0.
DSN Error ellipse: s-maj=44.7km s-min=6.5km az=40.0.
ISC IV 13 04 05 39.9–2.0 34.35N–.06 45.52E–.08 18 42 1-6
THR IV 13 04 05 38.8–.57 34.35N 45.42E 14–9 3.6L **¶602003971**
ISN IV 13 04 05 38.5–.30 34.24N 45.55E 0 3.7L
CSEM IV 13 04 05 39.3–.57 34.36N 45.54E 2 3.7L
TEH IV 13 04 05 39.4 34.35N 45.48E 5 3.7L
ISC Event type ke.
THR Error ellipse: s-maj=6.0km s-min=7.8km az=-1.0.
ISN Error ellipse: s-maj=2.1km s-min=2.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=9.2km az=70.0.
ISC IV 14 19 54 32.8–1.9 36.15N–.06 44.69E–.06 16–14 41 1-5
CSEM IV 14 19 54 33.6–.47 35.89N 44.49E 20–0 3.0L **¶16648710**
ISK IV 14 19 54 35.3 36.44N 44.39E 5 3.0L
TEH IV 14 19 54 38.1 35.92N 44.91E 29 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.1km s-min=8.6km az=34.0.
ISC IV 18 16 41 51.0–1.0 31.18N–.07 47.93E–.07 10 3.9b 31 1-86
ISN IV 18 16 41 44.2–2.1 30.78N 47.98E 0–11 3.4L **¶17201427**
ISCJB IV 18 16 41 50.0–.62 31.16N–.05 47.90E–.04 10 4.0b
IDC IV 18 16 41 50.8–2.3 31.56N 47.84E 0 4.0,3.9
TEH IV 18 16 41 51.6 31.16N 47.88E 6 3.4L,3.9
CSEM IV 18 16 41 52.2–.60 31.20N 47.98E 10 3.4L,3.9
ISC Event type ke.
ISN Error ellipse: s-maj=21.5km s-min=12.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.7km az=175.1.
IDC Error ellipse: s-maj=55.3km s-min=32.1km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=14.7km s-min=7.3km az=40.0.
ISC IV 24 22 54 12.0–1.2 36.20N–.03 45.67E–.03 6–10 3.3b 142 1-73
ISK IV 24 22 54 04.3 35.67N 45.74E 5 4.8 **¶16649305**
ISN IV 24 22 54 05.2–1.3 36.02N 45.39E 0–4 3.7L
AZER IV 24 22 54 08.8–.06 35.02N 45.87E 46–2 3.7L
IDC IV 24 22 54 11.6–1.4 36.23N 45.41E 0 3.6,3.6b
CSEM IV 24 22 54 12.9–.15 36.13N 45.54E 10 3.7L,3.6b
TEH IV 24 22 54 13.6 36.22N 45.50E 16 3.7L,3.6b
THR IV 24 22 54 13.2–.70 36.19N 45.67E 14–10 3.5L,3.6b
ISC Event type ke.
ISN Error ellipse: s-maj=5.1km s-min=5.7km az=-1.0.
AZER Error ellipse: s-maj=13.3km s-min=1.7km az=226.0.
IDC Error ellipse: s-maj=22.2km s-min=14.6km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.3km az=34.0.
THR Error ellipse: s-maj=3.9km s-min=8.3km az=-1.0.
ISC IV 29 22 52 29.7–1.4 35.4N–.10 45.1E–.10 10 13 1-3
ISCJB IV 29 22 52 28.2–.67 35.29N–.07 44.94E–.06 10 **¶602004137**
ISN IV 29 22 52 28.4–1.2 35.26N 44.87E 28–16 2.7L
CSEM IV 29 22 52 29.5 35.24N 44.90E 17 2.7L
TEH IV 29 22 52 29.5 35.24N 44.90E 17 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=4.9km az=30.2.
ISN Error ellipse: s-maj=4.0km s-min=13.9km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TEH V 06 01 39 12.0 33.88N 45.24E 3 3.2L
ISN V 06 01 39 10.8–.87 33.75N 45.25E 0–4 3.2L **¶602004202**
CSEM V 06 01 39 12.0–.32 33.91N 45.30E 5 3.2L
ISN Error ellipse: s-maj=3.8km s-min=2.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=5.9km az=149.0.
ISC V 19 17 07 32.3–1.3 33.37N–.04 45.69E–.05 9–13 23 0-6
ISCJB V 19 17 07 31.2–1.4 33.36N–.04 45.70E–.06 3–11 **¶602004328**
ISN V 19 17 07 31.3–.90 33.32N 45.66E 0–12 2.9L
CSEM V 19 17 07 32.3–.18 33.36N 45.69E 5 2.9L
TEH V 19 17 07 33.6 33.36N 45.69E 12 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.7km az=170.0.
ISN Error ellipse: s-maj=4.7km s-min=7.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=134.0.
TEH V 22 00 09 07.8 32.99N 46.19E 11 2.5L
CSEM V 22 00 09 04.7–.70 32.84N 45.89E 20 2.5L **¶602004346**
ISN V 22 00 09 06.3–.30 32.97N 46.19E 0 2.5L
CSEM Event type ke. Error ellipse: s-maj=17.5km s-min=7.8km az=10.0.
ISN Error ellipse: s-maj=1.4km s-min=2.5km az=-1.0.
TEH V 22 15 05 27.7 32.90N 46.22E 8 3.2L
ISN V 22 15 05 24.9–1.3 32.71N 45.66E 0–5 3.2L **¶602004352**
CSEM V 22 15 05 26.9–.32 32.98N 46.13E 2 3.2L
ISN Error ellipse: s-maj=2.5km s-min=3.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=7.0km az=117.0.
TEH V 22 23 20 39.0 33.08N 46.38E 14 3.2L
CSEM V 22 23 20 37.3–.21 33.08N 46.38E 2 3.1L **¶602004357**
ISN V 22 23 20 40.7–1.2 32.86N 45.84E 0–4 3.1L
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.6km az=7.0.
ISN Error ellipse: s-maj=3.2km s-min=4.0km az=-1.0.
TEH V 22 23 22 26.2 32.98N 46.35E 3 3.1L
CSEM V 22 23 22 24.7–.67 32.90N 46.69E 5 3.1L **¶602004358**
ISN V 22 23 22 25.3–1.0 32.66N 46.19E 0–4 3.1L
CSEM Event type ke. Error ellipse: s-maj=18.7km s-min=9.9km az=101.0.
ISN Error ellipse: s-maj=2.5km s-min=5.9km az=-1.0.
TEH V 25 19 09 16.3 32.83N 46.30E 18 2.5L
CSEM V 25 19 09 12.5–.86 32.76N 46.22E 10 2.5L **¶602004376**
ISN V 25 19 09 15.7–.30 32.82N 46.29E 0 2.5L
CSEM Event type ke. Error ellipse: s-maj=18.6km s-min=6.7km az=3.0.
ISN Error ellipse: s-maj=2.3km s-min=2.8km az=-1.0.
TEH V 25 22 43 50.2 36.96N 45.21E 1 2.7L
CSEM V 25 22 43 50.2 36.96N 45.21E 1 2.7L **¶602004377**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 27 12 31 06.5–1.0 36.91N–.02 45.21E–.02 12–7 4.1b,3.1s 274 1-80
NSSC V 27 12 31 05.1–1.2 36.69N 45.57E 38–999 3.6L,3.1s **¶16596614**
IDC V 27 12 31 05.1–.66 36.83N 45.21E 0 4.2,4.1
NEIC V 27 12 31 06.9 37.01N 45.07E 5 4.2,4.1b
ISK V 27 12 31 06.7 37.02N 45.06E 5 4.1,4.1b
TEH V 27 12 31 06.9 37.01N 45.07E 5 4.2L,4.1b
MOS V 27 12 31 07.4–1.5 36.67N 45.18E 33 4.3b,4.1b
THR V 27 12 31 08.5–.34 36.98N 45.31E 18–2 4.1L,4.1b
CSEM V 27 12 31 08.2–.13 36.99N 45.13E 15 4.2b,4.1b
ISN V 27 12 31 09.6–.80 36.47N 44.56E 0–2 4.2L,4.1b
AZER V 27 12 31 11.6–2.5 36.20N 45.99E 5 4.2L,4.1b
DDA V 27 12 32 04.6 37.66N 45.02E 10 3.9L,4.1b
ISC Event type ke.
NSSC Error ellipse: s-maj=18.1km s-min=27.8km az=-1.0.
IDC Error ellipse: s-maj=13.2km s-min=11.5km az=137.0.
NEIC Event type se. After TEH.
MOS Error ellipse: s-maj=10.7km s-min=6.0km az=89.1.
THR Error ellipse: s-maj=2.2km s-min=5.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=1.0.
ISN Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
AZER Error ellipse: s-maj=27.2km s-min=18.2km az=107.0.
TEH V 31 17 19 52.4 32.63N 46.84E 5 3.1L
CSEM V 31 17 19 52.4 32.63N 46.84E 5 3.1L **¶602004436**
ISN V 31 17 19 55.5–.30 32.64N 46.73E 0 3.1L
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISN Error ellipse: s-maj=1.7km s-min=2.9km az=-1.0.
TEH VI 01 07 03 43.1 36.91N 45.21E 2 2.6L
ISN VI 01 07 03 34.4–.30 36.08N 45.02E 0 2.6L **¶602004439**
CSEM VI 01 07 03 43.1 36.91N 45.21E 2 2.6L
ISN Error ellipse: s-maj=1.2km s-min=1.2km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 06 19 25 55.4–.50 36.47N–.03 44.18E–.03 10 3.8b 114 1-65
NSSC VI 06 19 25 41.9–6.2 35.53N 44.95E 211–278 3.8L **¶17205428**
ISN VI 06 19 25 47.8–.72 36.69N 44.17E 0–5 3.9L
ISCJB VI 06 19 25 53.8–.31 36.36N–.03 44.20E–.03 10 3.7b,3.6s
THR VI 06 19 25 53.5–.69 36.48N 43.78E 15 3.7L,3.6s
IDC VI 06 19 25 54.3–.86 36.41N 44.23E 0 3.8,3.7
ISK VI 06 19 25 54.8 36.41N 43.97E 8 3.8L,3.7
DDA VI 06 19 25 54.7 36.46N 44.03E 8 3.9L,3.7
CSEM VI 06 19 25 56.9–.28 36.48N 43.98E 10 3.8L,3.1s
DSN VI 06 19 25 58.3–3.1 36.39N 44.62E 15 3.1s,3.1s
ISC Event type ke.
NSSC Error ellipse: s-maj=162.1km s-min=141.2km az=-1.0.
ISN Error ellipse: s-maj=8.7km s-min=3.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=28.4.
THR Error ellipse: s-maj=9.5km s-min=6.7km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=12.9km az=1.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=5.1km az=29.0.
DSN Error ellipse: s-maj=86.8km s-min=6.0km az=68.0.
TEH VI 16 06 10 29.4 35.15N 45.85E 7 2.8L
ISN VI 16 06 10 23.4–.30 35.21N 46.56E 0 2.9L **¶602004572**
CSEM VI 16 06 10 29.4 35.15N 45.85E 7 2.8L
ISN Error ellipse: s-maj=0.4km s-min=3.6km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

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ISC I 03 13 37 55.1–.43 30.26N–.05 49.75E–.04 10 4.2b,3.7s 265 2-97
IDC I 03 13 37 53.6–.77 30.27N 49.80E 0 4.1,4.1b **¶15902926**
ISCJB I 03 13 37 53.6–.26 30.21N–.03 49.74E–.03 10 4.2b,3.6s
THR I 03 13 37 55.9–.86 30.31N 49.80E 15 4.2L,3.6s
ISN I 03 13 37 55.9–2.6 30.09N 49.68E 0–222 4.2L,3.6s
MOS I 03 13 37 55.4–1.4 30.25N 49.74E 25 4.3b,3.6s
TEH I 03 13 37 56.9 30.24N 49.71E 9 4.4L,3.6s
BJI I 03 13 37 56.5 30.20N 49.80E 35 4.6b,4.3s
NEIC I 03 13 37 57.8–1.3 30.23N 49.78E 30–10 4.2L,4.2b
CSEM I 03 13 37 58.3–.15 30.26N 49.75E 30 4.2b,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=17.7km s-min=12.0km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.8km az=22.7.
THR Error ellipse: s-maj=5.2km s-min=3.4km az=-1.0.
ISN Error ellipse: s-maj=160.6km s-min=265.2km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=5.2km az=101.5.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.4km az=183.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.5km az=23.0.
ISC II 22 22 01 48.6–1.0 36.39N–.06 49.87E–.05 10 22 1-4
AZER II 22 22 01 36.4–.04 36.18N 49.06E 5 **¶601710537**
CSEM II 22 22 01 42.9–.49 36.50N 49.37E 10 2.9L
ISCJB II 22 22 01 45.7–.72 36.46N–.05 49.73E–.09 10 2.9L
TEH II 22 22 01 50.0 36.36N 49.90E 9 2.9L
ISC Event type ke.
AZER Error ellipse: s-maj=12.6km s-min=3.6km az=264.0.
CSEM Event type ke. Error ellipse: s-maj=21.4km s-min=8.9km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=4.6km az=148.0.
ISC II 23 20 30 51.3–.89 30.14N–.07 50.00E–.06 10 3.6b 43 2-48
ISCJB II 23 20 30 50.5–.72 30.18N–.06 49.95E–.06 10 3.6b,3.2s **¶17192757**
CSEM II 23 20 30 50.7–.39 30.13N 49.97E 2 3.3L,3.2s
TEH II 23 20 30 51.7 30.11N 49.99E 5 3.3L,3.2s
IDC II 23 20 31 07.5–5.0 30.50N 49.89E 149–45 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.9km az=32.8.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=4.5km az=39.0.
IDC Error ellipse: s-maj=41.0km s-min=16.6km az=163.0.
ISC II 25 15 04 35.6–.66 34.39N–.04 47.85E–.03 10 3.4b 61 0-82
THR II 25 15 04 30.4–.44 34.05N 47.49E 14–3 4.0L **¶16168118**
ISN II 25 15 04 32.1–1.4 34.33N 47.42E 10–5 3.8L
CSEM II 25 15 04 33.7–.30 34.22N 47.54E 10 3.8L
TEH II 25 15 04 35.9 34.46N 47.86E 5 3.8L
IDC II 25 15 04 41.0–2.4 33.72N 47.66E 91–30 3.7s,3.7
ISC Event type ke.
THR Error ellipse: s-maj=7.7km s-min=7.1km az=-1.0.
ISN Error ellipse: s-maj=5.1km s-min=8.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=7.0km az=147.0.
IDC Error ellipse: s-maj=32.4km s-min=16.7km az=1.0.
ISC II 27 13 18 25.2–.90 34.52N–.02 47.89E–.03 3–6 3.7b 99 0-82
CSEM II 27 13 18 25.1–.33 34.49N 47.82E 2 4.0L **¶602002250**
THR II 27 13 18 25.3–.75 34.72N 48.02E 35–6 4.0L
TEH II 27 13 18 25.4 34.46N 47.80E 3 4.0L
IDC II 27 13 18 31.6–2.8 34.42N 47.93E 64–26 3.7,3.6L
ISN II 27 13 18 31.2–1.6 34.08N 47.46E 2–6 3.9L,3.6L
AZER II 27 13 18 34.9–1.5 34.21N 48.25E 2 3.9L,3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=6.9km az=33.0.
THR Error ellipse: s-maj=3.3km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=24.6km s-min=13.7km az=178.0.
ISN Error ellipse: s-maj=5.9km s-min=9.5km az=-1.0.
AZER Error ellipse: s-maj=29.0km s-min=11.8km az=94.0.
ISC II 28 14 17 30.7–.59 31.86N–.05 49.62E–.04 20 3.6b 75 1-85

ISN II 28 14 17 23.2–1.9 30.86N 49.29E 7–10 3.7L ¶16354294
IDC II 28 14 17 28.1–1.1 31.93N 49.68E 0 3.8,3.8
ISCJB II 28 14 17 29.1–.47 31.80N–.05 49.58E–.04 20 3.6b,3.3s
THR II 28 14 17 30.6–.69 31.96N 49.78E 14–7 3.7L,3.3s
CSEM II 28 14 17 31.7–.24 32.00N 49.75E 10 3.7L,3.3s
TEH II 28 14 17 32.1 32.01N 49.77E 6 3.7L,3.3s
ISC Event type ke.
ISN Error ellipse: s-maj=20.6km s-min=10.2km az=-1.0.
IDC Error ellipse: s-maj=27.6km s-min=16.0km az=155.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=0.1.
THR Error ellipse: s-maj=4.3km s-min=5.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.0km az=34.0.
TEH III 02 11 28 32.9 31.36N 49.63E 18 2.7L
CSEM III 02 11 28 32.9 31.36N 49.63E 18 2.7L ¶602002443
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TEH III 12 13 06 34.5 35.53N 49.67E 6 3.1L
CSEM III 12 13 06 33.6–.31 35.45N 49.66E 2 3.1L ¶601847478
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=6.1km az=17.0.
ISC III 22 07 07 57.7–.94 33.60N–.04 49.14E–.03 13 49 1-7
ISN III 22 07 07 39.8–1.3 33.76N 49.87E 0–154 3.8L ¶16596689
THR III 22 07 07 57.4–.57 33.55N 49.17E 16–10 3.8L
ISCJB III 22 07 07 57.9–.44 33.46N–.05 48.99E–.04 13 3.8L
CSEM III 22 07 07 58.8–.24 33.46N 48.96E 15 3.8L
TEH III 22 07 07 59.9 33.52N 48.96E 18 3.8L
ISC Event type ke.
ISN Error ellipse: s-maj=76.4km s-min=219.2km az=-1.0.
THR Error ellipse: s-maj=2.7km s-min=4.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=15.8.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.3km az=37.0.
ISC IV 05 06 31 58.1–1.1 32.6N–.10 48.98E–.04 23 3.5b 24 1-47
CSEM IV 05 06 31 57.3–.82 32.67N 49.06E 2 3.2L ¶16506207
TEH IV 05 06 31 57.8 32.51N 49.01E 6 3.2L
IDC IV 05 06 32 15.0–9.2 32.87N 48.52E 164–88 3.5,3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=32.8km s-min=10.2km az=18.0.
IDC Error ellipse: s-maj=51.1km s-min=28.6km az=156.0.
TEH IV 05 06 33 28.8 32.33N 48.95E 13 3.3L
CSEM IV 05 06 33 28.3–.57 32.40N 48.95E 15 3.3L ¶602003858
ISN IV 05 06 33 50.6–2.2 31.90N 44.83E 0–14 3.2L
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=13.7km az=161.0.
ISN Error ellipse: s-maj=7.7km s-min=7.9km az=-1.0.
ISC IV 05 06 41 01.6–.85 32.31N–.06 48.84E–.05 23 3.7b 29 0-46
ISCJB IV 05 06 41 00.8–.76 32.29N–.07 48.80E–.06 23 3.4b ¶602003859
CSEM IV 05 06 41 00.9–.57 32.36N 48.95E 8–6 3.1L
TEH IV 05 06 41 01.1 32.34N 48.90E 8 3.1L
IDC IV 05 06 41 10.8–8.0 34.41N 48.66E 0 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.7km az=17.5.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=5.7km az=17.0.
IDC Error ellipse: s-maj=193.8km s-min=23.8km az=4.0.
ISC IV 07 01 27 49.6–.39 33.12N–.03 48.69E–.02 19 4.0b 76 0-84
IDC IV 07 01 27 48.0–1.1 33.21N 48.55E 0 3.9,3.8 ¶16545144
THR IV 07 01 27 47.2–.41 33.19N 48.54E 18–5 3.7L,3.8
NEIC IV 07 01 27 48.2 33.17N 48.63E 18 4.1b,3.8L
ISCJB IV 07 01 27 48.8–.31 33.02N–.04 48.60E–.03 19 3.9b,3.5s
CSEM IV 07 01 27 49.8–.21 33.04N 48.66E 15 3.8L,3.5s
TEH IV 07 01 27 51.0 32.96N 48.67E 19 3.8L,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=26.9km s-min=12.5km az=162.0.
THR Error ellipse: s-maj=2.3km s-min=9.0km az=-1.0.
NEIC Event type se. After THR.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=175.4.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.2km az=9.0.
ISC IV 19 15 43 10.2–1.1 31.33N–.08 49.33E–.07 10 3.7b 54 1-86
IDC IV 19 15 43 07.1–1.9 31.30N 49.24E 0 4.0,3.9L ¶17201515
ISN IV 19 15 43 07.0–2.0 30.59N 48.95E 0–9 3.7L,3.9L
ISCJB IV 19 15 43 07.7–.51 31.22N–.05 49.24E–.03 10 3.7b,3.9L
CSEM IV 19 15 43 11.8–.27 31.43N 49.41E 10 3.7L,3.9L
TEH IV 19 15 43 11.2 31.40N 49.37E 2 3.7L,3.9L
THR IV 19 15 43 13.6–.39 31.63N 49.56E 14–5 3.7L,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=48.6km s-min=22.0km az=36.0.
ISN Error ellipse: s-maj=19.8km s-min=10.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.1km az=5.2.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.7km az=37.0.
THR Error ellipse: s-maj=5.8km s-min=3.7km az=-1.0.
TEH IV 25 00 03 45.7 32.46N 48.73E 6 2.6L
CSEM IV 25 00 03 45.7 32.46N 48.73E 6 2.6L ¶602004086
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 29 23 28 36.0–.96 31.17N–.07 49.23E–.06 10 44 1-34
ISCJB IV 29 23 28 34.8–.76 31.13N–.05 49.22E–.06 10 3.5b ¶17202421
IDC IV 29 23 28 34.6–2.4 31.20N 49.16E 0 3.6,3.6
TEH IV 29 23 28 36.9 31.23N 49.26E 5 3.3L,3.6
CSEM IV 29 23 28 36.9–.39 31.24N 49.33E 5 3.3L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.6km az=43.3.
IDC Error ellipse: s-maj=46.4km s-min=27.9km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=5.0km az=42.0.
TEH V 10 12 52 01.0 33.06N 47.81E 18 2.9L
CSEM V 10 12 52 01.2–.42 33.04N 47.85E 20 2.9L ¶602004242
ISN V 10 12 52 03.0–1.1 32.98N 47.48E 0–4 2.9L
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=9.4km az=161.0.
ISN Error ellipse: s-maj=4.3km s-min=6.4km az=-1.0.
TEH V 11 09 52 01.3 31.80N 48.32E 10 3.2L
ISN V 11 09 51 56.4–1.0 31.28N 48.18E 0–16 3.2L ¶602004249
CSEM V 11 09 51 59.2–.30 31.64N 48.21E 10 3.1L
ISN Error ellipse: s-maj=25.9km s-min=8.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.8km az=172.0.
ISC V 12 05 37 45.1–.73 33.25N–.04 49.92E–.03 10 49 0-48
ISN V 12 05 37 33.9–6.5 32.34N 50.37E 3–340 4.1L ¶16596851
IDC V 12 05 37 41.7–4.7 33.18N 49.92E 0 3.6,3.6
ISCJB V 12 05 37 44.7–.41 33.23N–.04 49.94E–.03 10 3.5b,3.6
TEH V 12 05 37 45.7 33.22N 49.90E 3 4.1L,3.6
THR V 12 05 37 45.4–.50 33.40N 49.78E 14–9 3.9L,3.6
CSEM V 12 05 37 45.0–.24 33.20N 49.90E 2 3.9L,3.6
ISC Event type ke.
ISN Error ellipse: s-maj=252.0km s-min=408.4km az=-1.0.
IDC Error ellipse: s-maj=83.6km s-min=44.5km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=3.6.
THR Error ellipse: s-maj=3.8km s-min=6.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.2km az=21.0.
ISC V 14 09 43 40.5–.93 32.54N–.06 48.60E–.04 17 26 0-10
CSEM V 14 09 43 38.8–.31 32.55N 48.60E 2 3.0L ¶602004271
ISCJB V 14 09 43 40.1–.49 32.51N–.05 48.56E–.04 17 3.0L
TEH V 14 09 43 40.9 32.58N 48.62E 12 3.1L
ISN V 14 09 43 40.9–1.2 32.50N 48.55E 0–17 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.4km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=0.7.
ISN Error ellipse: s-maj=5.1km s-min=25.3km az=-1.0.
TEH V 15 13 32 11.4 31.70N 48.14E 2 3.3L
ISN V 15 13 32 04.7–.79 31.03N 48.13E 0–11 3.0L ¶602004289
CSEM V 15 13 32 09.8–.37 31.58N 48.03E 10 3.2L
ISN Error ellipse: s-maj=19.2km s-min=5.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=6.7km az=174.0.
ISC V 15 13 40 58.9–.63 31.68N–.05 48.17E–.04 10 3.7b 69 1-85
ISN V 15 13 40 54.6–1.2 31.19N 48.11E 0–18 3.9L ¶16560072
ISCJB V 15 13 40 57.4–.50 31.60N–.05 48.12E–.04 10 3.6b
IDC V 15 13 40 57.7–1.2 31.75N 48.21E 0 3.9,3.8
CSEM V 15 13 40 58.6–.40 31.57N 48.08E 10 3.8L,3.8
TEH V 15 13 41 00.2 31.72N 48.16E 3 3.9L,3.8
THR V 15 13 41 00.3–.60 31.71N 48.37E 14–9 3.8L,3.8
ISC Event type ke.
ISN Error ellipse: s-maj=28.3km s-min=8.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.6km az=3.5.
IDC Error ellipse: s-maj=25.7km s-min=18.1km az=173.0.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=6.5km az=3.0.
THR Error ellipse: s-maj=6.2km s-min=7.2km az=-1.0.
TEH V 15 21 09 34.2 31.77N 48.24E 13 3.1L
ISN V 15 21 09 26.8–.70 31.75N 48.76E 0–24 3.0L ¶602004291
CSEM V 15 21 09 32.4–.22 31.77N 48.28E 2 3.1L
ISN Error ellipse: s-maj=7.7km s-min=37.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=23.0.
TEH V 17 00 43 29.5 31.79N 48.34E 10 3.1L
ISN V 17 00 43 18.5–.32 31.43N 48.56E 4–9 2.7L ¶602004300
CSEM V 17 00 43 26.5–.34 31.73N 48.21E 2 2.7L
ISN Error ellipse: s-maj=15.8km s-min=4.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=6.6km az=5.0.
TEH V 17 02 56 43.0 31.80N 48.34E 5 3.2L
ISN V 17 02 56 38.7–.38 31.32N 48.17E 3–6 2.9L ¶602004304
CSEM V 17 02 56 40.6–.35 31.62N 48.22E 10 2.9L
ISN Error ellipse: s-maj=9.7km s-min=3.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=5.6km az=175.0.
ISC V 17 08 33 41.3–.84 31.34N–.05 49.59E–.04 25 3.9b 44 1-86
ISN V 17 08 33 36.0–.94 31.42N 49.93E 0–197 3.3L ¶16596551
IDC V 17 08 33 38.7–3.0 31.60N 49.18E 0 3.9,3.9
ISCJB V 17 08 33 41.4–.59 31.35N–.05 49.59E–.04 25 3.9b,3.9
CSEM V 17 08 33 41.2–.27 31.39N 49.61E 10 3.3L,3.9
TEH V 17 08 33 42.5 31.44N 49.67E 13 3.4L,3.9
ISC Event type ke.
ISN Error ellipse: s-maj=43.5km s-min=288.3km az=-1.0.
IDC Error ellipse: s-maj=67.8km s-min=29.6km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.8km az=2.5.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.8km az=18.0.
ISC V 24 00 01 36.1–.52 31.74N–.05 48.31E–.04 10 3.9b 87 1-85
ISN V 24 00 01 32.1–.84 31.24N 48.29E 0–5 3.9L ¶16596602
ISCJB V 24 00 01 35.1–.39 31.70N–.04 48.22E–.03 10 3.7b
CSEM V 24 00 01 36.2–.35 31.72N 48.20E 2 3.7L
THR V 24 00 01 37.3–.57 31.72N 48.41E 14–8 3.7L
TEH V 24 00 01 39.2 31.83N 48.26E 10 3.9L
IDC V 24 00 01 41.5–2.6 31.76N 48.26E 52–24 3.8,3.6
ISC Event type ke.
ISN Error ellipse: s-maj=10.1km s-min=5.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=167.3.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=6.3km az=175.0.
THR Error ellipse: s-maj=3.8km s-min=7.5km az=-1.0.
IDC Error ellipse: s-maj=23.5km s-min=12.4km az=164.0.
ISC V 30 07 43 26.5–.82 34.98N–.03 49.98E–.03 10 67 1-8
AZER V 30 07 43 08.3–4.0 33.78N 50.51E 5 ¶16596632
ISN V 30 07 43 23.7–2.0 34.96N 50.33E 0–38 4.1L
THR V 30 07 43 25.7–.93 34.96N 49.88E 14–8 3.9L
CSEM V 30 07 43 26.8–.17 35.00N 49.98E 2 4.1L
ISCJB V 30 07 43 26.7–.32 34.98N–.03 49.96E–.03 10 4.1L
TEH V 30 07 43 27.7 34.97N 50.00E 5 4.1L
ISC Event type ke.
AZER Error ellipse: s-maj=320.8km s-min=29.6km az=76.0.
ISN Error ellipse: s-maj=14.5km s-min=58.2km az=-1.0.
THR Error ellipse: s-maj=5.5km s-min=4.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=159.4.
ISC V 30 20 19 08.7–.59 33.98N–.03 47.63E–.04 10 3.8b 51 0-81
IDC V 30 20 19 05.9–1.4 33.85N 47.59E 0 3.8,3.6 ¶16596633
ISCJB V 30 20 19 08.2–.37 33.99N–.04 47.61E–.04 10 3.5b,2.7s
CSEM V 30 20 19 09.4–.29 34.00N 47.57E 10 3.5L,2.7s
TEH V 30 20 19 10.2 33.93N 47.54E 7 3.5L,2.7s
ISN V 30 20 19 11.2–.86 33.77N 47.37E 0–3 3.5L,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=33.1km s-min=23.5km az=6.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.3km az=135.8.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=5.5km az=39.0.
ISN Error ellipse: s-maj=2.6km s-min=4.5km az=-1.0.
TEH VI 01 17 18 30.8 33.61N 47.09E 0 3.3L
ISN VI 01 17 18 29.8–.60 33.52N 47.05E 0–2 3.0L ¶602004442
CSEM VI 01 17 18 30.5–.34 33.67N 47.06E 2 3.3L
ISN Error ellipse: s-maj=1.7km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=3.8km az=41.0.
ISC VI 04 11 26 18.4–.78 31.08N–.05 49.67E–.05 10 3.6b 59 1-87
ISN VI 04 11 26 09.3–1.4 30.68N 50.26E 0–76 3.7L ¶17205192
IDC VI 04 11 26 16.3–1.5 31.15N 49.64E 0 3.8,3.7
ISCJB VI 04 11 26 17.2–.60 30.98N–.05 49.61E–.05 10 3.5b,3.4s
THR VI 04 11 26 18.6–.55 31.15N 49.90E 18–9 3.9L,3.4s
CSEM VI 04 11 26 19.3–.50 31.09N 49.67E 5 3.7L,3.4s
TEH VI 04 11 26 20.1 31.10N 49.67E 3 3.7L,3.4s
ISC Event type ke.
ISN Error ellipse: s-maj=44.9km s-min=99.9km az=-1.0.
IDC Error ellipse: s-maj=30.5km s-min=21.5km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.9km az=32.4.
THR Error ellipse: s-maj=6.1km s-min=5.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=5.7km az=38.0.
TEH VI 04 11 33 50.9 31.03N 49.65E 2 3.3L
ISN VI 04 11 33 44.1–1.1 31.38N 50.23E 0–284 3.3L ¶602004465
CSEM VI 04 11 33 51.0–.69 31.14N 49.67E 2 3.3L
ISN Error ellipse: s-maj=63.8km s-min=413.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=17.0km s-min=6.8km az=18.0.
ISC VI 05 13 35 50.9–2.4 33.58N–.08 47.10E–.07 14–14 22 1-5
CSEM VI 05 13 35 51.7–.92 33.65N 47.10E 2 3.1L ¶602004471
TEH VI 05 13 35 51.3 33.59N 47.12E 18 3.1L
ISN VI 05 13 35 53.3–.48 33.43N 46.76E 0–2 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.2km s-min=8.7km az=41.0.
ISN Error ellipse: s-maj=1.6km s-min=2.7km az=-1.0.
ISC VI 05 23 57 38.5–1.6 33.65N–.07 47.10E–.07 17 19 1-3
ISN VI 05 23 57 36.6–.30 33.62N 46.91E 0 2.9L ¶602004474
CSEM VI 05 23 57 37.9–.62 33.65N 47.10E 2 2.9L
ISCJB VI 05 23 57 38.4–1.4 33.59N–.07 47.07E–.10 17 2.9L
TEH VI 05 23 57 38.3 33.60N 47.07E 5 2.9L
ISC Event type ke.
ISN Error ellipse: s-maj=1.6km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=5.7km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.9km az=141.9.
ISC VI 08 01 49 37.9–1.2 36.97N–.03 49.36E–.04 4–12 46 1-4
AZER VI 08 01 49 33.2–.29 36.83N 48.60E 5 ¶601711503
TEH VI 08 01 49 40.0 36.96N 49.37E 2 3.0L
CSEM VI 08 01 49 41.4–.28 37.10N 49.46E 20 2.8L
ISC Event type ke.
AZER Error ellipse: s-maj=19.7km s-min=14.2km az=280.0.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=6.1km az=49.0.
ISC VI 14 01 06 56.9–1.4 35.57N–.04 49.81E–.04 6–12 86 0-7
ISN VI 14 01 06 50.7–.32 35.58N 49.88E 5–10 4.0L ¶601711512
CSEM VI 14 01 06 57.0–.29 35.62N 49.87E 2 4.0L
TEH VI 14 01 06 57.6 35.56N 49.89E 7 4.0L
THR VI 14 01 06 57.7–.31 35.55N 50.00E 17–3 3.5L
AZER VI 14 01 06 59.5–.50 35.60N 48.99E 10 3.5L
ISC Event type ke.
ISN Error ellipse: s-maj=3.7km s-min=10.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=4.8km az=52.0.
THR Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0.
AZER Error ellipse: s-maj=9.4km s-min=4.0km az=81.0.
ISC VI 29 03 28 54.6–1.4 33.63N–.03 49.87E–.03 18–4 59 0-4
CSEM VI 29 03 28 56.3–.29 33.51N 49.94E 2 ¶602004668
THR VI 29 03 28 56.0–1.6 33.60N 49.90E 6–9 3.7L
TEH VI 29 03 28 57.0 33.51N 49.95E 5 3.9L

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=6.7km az=20.0.
THR Error ellipse: s-maj=6.4km s-min=9.2km az=-1.0.

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ISC	**I**	**01 02 06 37.8–.95**	**36.46N–.04**	**57.84E–.03**	**10**		**47**	**1-7**
ISCJB	I	01 02 06 36.8–.39	36.43N–.03	57.81E–.03	10			¶601902284
THR	I	01 02 06 36.5–.35	36.42N	57.74E	14–4	3.5L		
CSEM	I	01 02 06 37.0–.21	36.45N	57.80E	2	3.6L		
TEH	I	01 02 06 38.1	36.40N	57.80E	4	3.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=163.7.
THR Error ellipse: s-maj=1.9km s-min=3.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.7km az=164.0.

ISC	**I**	**02 07 46 03.0–.42**	**30.42N–.04**	**51.73E–.04**	**10**	**3.9b,2.9s**	**140**	**1-95**
ISN	I	02 07 45 06.5–1.9	29.97N	52.67E	0	3.9L,2.9s		¶15902792
IDC	I	02 07 46 00.8–.76	30.48N	51.73E	0	4.0,3.9		
ISCJB	I	02 07 46 01.4–.25	30.39N–.03	51.68E–.03	10	3.8b,2.9s		
TEH	I	02 07 46 04.3	30.49N	51.78E	5	4.0L,2.9s		
THR	I	02 07 46 05.1–.58	30.51N	51.78E	33–8	4.0L,2.9s		
NEIC	I	02 07 46 05.0	30.37N	51.69E	24	4.2b,4.0		
CSEM	I	02 07 46 05.9–.16	30.45N	51.76E	30	4.2s,4.0L		
DSN	I	02 07 46 10.1–.07	30.31N	52.42E	15	4.2s,3.7b		

ISC Event type ke.
ISN Error ellipse: s-maj=20.3km s-min=26.7km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=12.7km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=39.6.
THR Error ellipse: s-maj=3.0km s-min=4.2km az=-1.0.
NEIC Event type se. After TEH.
CSEM Error ellipse: s-maj=6.7km s-min=4.4km az=50.0.
DSN Error ellipse: s-maj=10.4km s-min=3.4km az=228.0.

ISC	**I**	**03 00 48 21.1–1.7**	**35.99N–.05**	**53.26E–.04**	**0–14**		**53**	**0-8**
ISCJB	I	03 00 48 21.1–.77	35.99N–.07	53.20E–.03	9–9			¶601685487
CSEM	I	03 00 48 22.4–.36	35.86N	53.27E	2	2.8L		
TEH	I	03 00 48 23.7	35.81N	53.29E	8	2.8L		
AZER	I	03 00 48 23.3–99	36.16N	53.00E	4–9	2.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=4.6km az=3.3.
CSEM Event type ke. Error ellipse: s-maj=18.2km s-min=6.4km az=161.0.
AZER Error ellipse: s-maj=138.4km s-min=7.0km az=315.0.

ISC	**I**	**04 22 11 30.2–1.4**	**30.13N–.05**	**51.7E–.10**	**8**		**30**	**0-7**
ISCJB	I	04 22 11 30.0–.87	30.12N–.05	51.7E–.10	8			¶601668378
CSEM	I	04 22 11 30.5–.51	30.16N	51.76E	2	3.6s,3.0L		
TEH	I	04 22 11 31.4	30.17N	51.74E	7	3.0L,3.0L		
DSN	I	04 22 11 33.6–.14	30.29N	52.39E	10	3.6s,3.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=5.9km az=165.7.
CSEM Event type ke. Error ellipse: s-maj=18.4km s-min=7.2km az=77.0.
DSN Error ellipse: s-maj=9.1km s-min=3.4km az=41.0.

ISC	**I**	**05 05 55 47.6–.52**	**30.16N–.03**	**51.82E–.03**	**10–3**	**5.3b,5.0s**	**1281**	**0-134**
ISN	I	05 05 55 21.1–2.1	30.39N	53.79E	0	5.3L,5.0s		¶15905623
ISCJB	I	05 05 55 44.6–.50	30.12N–.02	51.75E–.01	1–3	5.3b,5.0s		
BJI	I	05 05 55 44.2	30.10N	51.80E	10	5.4s,5.1		
IDC	I	05 05 55 45.5–.36	30.19N	51.74E	0	5.0,4.9		
MOS	I	05 05 55 46.5–1.3	30.13N	51.71E	16	5.2b,4.7s		
GCMT	I	05 05 55 47.4–.10	30.08N	51.56E	21–0	5.4W,4.7s		
CSEM	I	05 05 55 47.7–.08	30.17N	51.77E	10	5.4b,5.3s		
DSN	I	05 05 55 48.5–.42	30.16N	51.81E	10	5.6s,5.1b		
THR	I	05 05 55 48.5–.73	30.19N	52.03E	14–13	5.2L,5.1b		
NEIC	I	05 05 55 48.4–1.9	30.15N	51.79E	16–12	5.4b,5.3		
TEH	I	05 05 55 49.3	30.18N	51.70E	16	5.2L,5.3		
OMAN	I	05 05 55 51.2–2.5	29.67N	52.26E	0	5.2L,5.3		

ISC Event type fe.
ISN Error ellipse: s-maj=13.7km s-min=35.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=1.8km az=21.2.
IDC Error ellipse: s-maj=9.7km s-min=8.9km az=17.0.
MOS Error ellipse: s-maj=5.8km s-min=3.4km az=105.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c143; s117,c235; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$0.24±.02; $M_{\phi\phi}$-0.21±.02; $M_{r\theta}$0.14±.04; $M_{\theta\phi}$1.41±.02; $M_{\phi r}$-0.15±.04; Best double couple: NP1:ϕ_s274.00000°,δ84.00000°,λ-6.00000°. NP2:ϕ_s5.00000°,δ84.00000°,λ-174.00000°. Principal axes: T 1.4450,Plg0.0000°,Azm320.0000°; N -0.0030,Plg82.0000°,Azm53.0000°; P -1.4430,Plg8.0000°,Azm230.0000° $M_0$1.44400×10^{17}
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=28.0.
DSN Error ellipse: s-maj=14.5km s-min=3.8km az=63.0.
THR Error ellipse: s-maj=4.6km s-min=5.5km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=195.0. Felt [III] at Shiraz. Also felt at Bandar Bushehr.
OMAN Error ellipse: s-maj=42.9km s-min=23.3km az=43.0.

ISC	**I**	**05 06 10 28.9–.44**	**30.14N–.04**	**51.78E–.04**	**15**	**3.9b**	**103**	**0-95**
DSN	I	05 06 10 15.4–2.4	31.12N	51.32E	10	4.6s,4.0b		¶15941717
IDC	I	05 06 10 26.1–.88	30.08N	51.63E	0	4.0L,3.9		
ISCJB	I	05 06 10 27.3–.28	30.03N–.03	51.72E–.04	15	3.8b,3.9		
THR	I	05 06 10 29.4–.40	30.19N	52.00E	16–11	4.2L,3.9		
CSEM	I	05 06 10 29.9–.31	30.12N	51.87E	10	4.6s,3.9L		
TEH	I	05 06 10 30.1	30.18N	51.86E	7	3.9L,3.9L		
OMAN	I	05 06 10 31.1–1.6	29.65N	51.27E	25	3.9L,3.9L		

ISC Event type ke.
DSN Error ellipse: s-maj=25.9km s-min=22.2km az=123.0.
IDC Error ellipse: s-maj=21.7km s-min=15.0km az=6.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.2km az=147.0.
THR Error ellipse: s-maj=2.1km s-min=7.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=5.0km az=81.0.
OMAN Error ellipse: s-maj=26.6km s-min=11.0km az=29.0.

ISC	**I**	**05 06 22 31.8–.53**	**30.22N–.04**	**51.93E–.05**	**8**	**3.6b**	**61**	**0-87**
IDC	I	05 06 22 30.7–1.1	30.20N	51.80E	0	3.8,3.7		¶17189484
ISCJB	I	05 06 22 31.1–.34	30.21N–.03	51.81E–.05	8	3.6b,3.7		
THR	I	05 06 22 32.9–.88	30.24N	51.95E	18–15	3.8L,3.7		
CSEM	I	05 06 22 32.7–.29	30.19N	51.85E	2	4.0s,3.6L		
TEH	I	05 06 22 33.6	30.21N	51.85E	7	3.6L,3.6L		
DSN	I	05 06 22 37.6–1.6	30.24N	52.57E	10	4.0s,3.6b		

ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=17.0km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.1km az=174.3.
THR Error ellipse: s-maj=4.7km s-min=8.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=5.7km az=83.0.
DSN Error ellipse: s-maj=53.6km s-min=8.0km az=44.0.

ISC	**I**	**05 06 47 00.9–.51**	**30.18N–.03**	**51.90E–.04**	**8**	**4.4s,3.8b**	**81**	**0-87**
ISCJB	I	05 06 46 59.2–.33	30.02N–.03	51.73E–.05	8	4.2s,3.8b		¶15941718
IDC	I	05 06 46 59.6–1.2	30.11N	51.78E	0	4.3,4.3s		
TEH	I	05 06 47 02.8	30.18N	51.79E	9	3.8L,4.3s		
CSEM	I	05 06 47 02.2–.30	30.12N	51.84E	10	4.0s,3.8L		
THR	I	05 06 47 02.3–.42	30.17N	51.92E	18–7	3.9L,3.8L		
DSN	I	05 06 47 05.6–1.2	30.01N	52.15E	10	4.0s,3.7b		
OMAN	I	05 06 47 07.2–.46	29.79N	51.74E	135–65	4.0s,3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.6km az=148.9.
IDC Error ellipse: s-maj=26.8km s-min=19.0km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=5.5km az=77.0.
THR Error ellipse: s-maj=2.4km s-min=4.0km az=-1.0.
DSN Error ellipse: s-maj=36.9km s-min=7.7km az=39.0.
OMAN Error ellipse: s-maj=21.8km s-min=18.0km az=267.0.

ISC	**I**	**05 07 31 50.4–.54**	**30.29N–.04**	**51.74E–.05**	**15**	**3.7b**	**59**	**1-87**
IDC	I	05 07 31 47.9–1.2	30.14N	51.62E	0	3.8,3.7		¶17189491
ISCJB	I	05 07 31 49.6–.32	30.22N–.03	51.74E–.05	15	3.7b,3.7		
THR	I	05 07 31 51.1–.59	30.22N	51.93E	10	3.8L,3.7		
CSEM	I	05 07 31 52.1–.38	30.16N	51.82E	10	3.9s,3.7L		
TEH	I	05 07 31 52.7	30.21N	51.79E	10	3.7L,3.7L		
DSN	I	05 07 31 59.6–.91	29.88N	52.34E	15	3.9s,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=18.9km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=174.5.
THR Error ellipse: s-maj=2.7km s-min=5.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=6.3km az=79.0.
DSN Error ellipse: s-maj=22.8km s-min=6.7km az=38.0.

ISC	**I**	**05 11 27 07.6–.62**	**30.21N–.04**	**51.86E–.05**	**8**	**3.5b**	**62**	**0-87**
IDC	I	05 11 27 05.9–1.2	30.18N	51.82E	0	3.6,3.6		¶17189500
ISCJB	I	05 11 27 06.6–.34	30.20N–.03	51.80E–.05	8	3.6s,3.5b		
CSEM	I	05 11 27 07.9–.25	30.17N	51.81E	5	3.8s,3.7L		
TEH	I	05 11 27 08.7	30.21N	51.84E	9	3.7L,3.7L		
THR	I	05 11 27 10.4–1.5	30.20N	51.80E	46–22	3.7L,3.7L		
DSN	I	05 11 27 15.9–.82	29.97N	52.51E	15	5.0L,3.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=28.3km s-min=18.4km az=151.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=168.1.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=4.9km az=75.0.
THR Error ellipse: s-maj=8.0km s-min=14.3km az=-1.0.
DSN Error ellipse: s-maj=25.9km s-min=7.2km az=51.0.

ISC	**I**	**05 15 52 10.2–1.0**	**30.18N–.03**	**51.84E–.05**	**8**		**37**	**0-7**
ISCJB	I	05 15 52 09.5–.47	30.16N–.03	51.87E–.06	8			¶601668382
TEH	I	05 15 52 09.6	30.14N	51.69E	6	3.0L		
CSEM	I	05 15 52 10.5–.29	30.14N	51.85E	10	3.5s,3.0L		
DSN	I	05 15 52 16.2–.85	29.76N	52.03E	15	4.8L,3.5s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.0km az=6.7.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=5.7km az=87.0.
DSN Error ellipse: s-maj=26.0km s-min=6.1km az=37.0.

TEH	**I**	**05 15 54 58.4**	**30.28N**	**51.63E**	**5**	**2.8L**		
CSEM	I	05 15 54 58.4	30.28N	51.63E	5	2.8L		¶601902350

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**I**	**05 16 32 22.8–.34**	**30.17N–.04**	**51.67E–.03**	**15**	**4.2b,3.3s**	**266**	**0-95**
IDC	I	05 16 32 20.8–.65	30.17N	51.66E	0	4.2,4.1		¶15906144
MOS	I	05 16 32 20.9–1.1	30.11N	51.71E	13	4.3b,4.1		
ISCJB	I	05 16 32 21.2–.20	30.07N–.03	51.65E–.03	15	4.2b,3.4s		
BJI	I	05 16 32 21.4	30.10N	51.34E	32	4.8b,4.4b		
CSEM	I	05 16 32 23.9–.11	30.14N	51.64E	20	4.5s,4.3b		
TEH	I	05 16 32 24.1	30.20N	51.71E	7	4.3L,4.3b		
NEIC	I	05 16 32 24.3–1.4	30.16N	51.63E	24–11	4.5b,4.4L		
THR	I	05 16 32 25.4–.36	30.22N	51.65E	45–5	4.4L,4.4L		
OMAN	I	05 16 32 26.6–1.7	29.84N	51.49E	32	4.4L,4.4L		
DSN	I	05 16 32 29.2–1.5	29.72N	51.79E	15	4.5s,4.0b		

ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=12.2km az=178.0.
MOS Error ellipse: s-maj=8.7km s-min=5.1km az=114.8.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=39.5.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=47.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.1km az=201.0.
THR Error ellipse: s-maj=2.3km s-min=3.0km az=-1.0.
OMAN Error ellipse: s-maj=20.8km s-min=10.5km az=14.0.
DSN Error ellipse: s-maj=23.8km s-min=9.5km az=22.0.

ISC	**I**	**05 17 50 55.2–.36**	**30.18N–.03**	**51.71E–.04**	**15**	**4.0b,3.3s**	**213**	**0-95**
OMAN	I	05 17 50 25.4–14	32.07N	50.12E	30	4.0b,3.3s		¶15906145
IDC	I	05 17 50 52.7–.61	30.14N	51.66E	0	4.0,4.0		
ISCJB	I	05 17 50 53.6–.20	30.11N–.03	51.66E–.03	15	4.0b,3.4s		
BJI	I	05 17 50 53.6	30.48N	51.80E	2	4.7b,4.1b		
MOS	I	05 17 50 53.6–1.1	30.06N	51.60E	19	4.1b,4.1b		
CSEM	I	05 17 50 55.2–.11	30.19N	51.70E	12	4.3b,4.2s		
TEH	I	05 17 50 56.7	30.23N	51.79E	6	4.2L,4.2s		
NEIC	I	05 17 50 58.0–.58	30.17N	51.65E	36–6	4.2b,4.1L		
THR	I	05 17 50 57.5–.31	30.24N	51.75E	38–4	4.1L,4.1L		
DSN	I	05 17 50 59.9–1.1	29.99N	51.96E	15	4.2s,3.8b		
NSSC	I	05 17 51 11.1–1.2	30.99N	47.34E	700–80	3.8L,3.0		

ISC Event type ke.
OMAN Error ellipse: s-maj=165.7km s-min=28.3km az=156.0.
IDC Error ellipse: s-maj=14.9km s-min=11.7km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.9km az=39.4.
MOS Error ellipse: s-maj=11.3km s-min=6.8km az=108.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=49.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.3km az=210.0.
THR Error ellipse: s-maj=1.9km s-min=3.2km az=-1.0.
DSN Error ellipse: s-maj=27.8km s-min=6.7km az=35.0.
NSSC Error ellipse: s-maj=54.8km s-min=64.6km az=-1.0.

ISC	**I**	**05 20 08 38.6–.50**	**30.13N–.04**	**51.71E–.05**	**15**	**3.6b**	**77**	**0-94**
IDC	I	05 20 08 35.8–.93	29.97N	51.62E	0	3.7,3.6		¶17189534
ISCJB	I	05 20 08 37.3–.30	30.11N–.03	51.65E–.04	15	3.5b,3.6		
CSEM	I	05 20 08 38.5–.24	30.15N	51.75E	10	4.0s,3.6L		
TEH	I	05 20 08 38.6	30.17N	51.72E	5	3.6L,3.6L		
THR	I	05 20 08 40.0–.48	30.18N	51.70E	46–6	3.8L,3.6L		
DSN	I	05 20 08 44.5–.16	29.95N	52.28E	15	4.0s,3.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=15.2km az=179.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.6km az=79.0.
THR Error ellipse: s-maj=3.1km s-min=4.0km az=-1.0.
DSN Error ellipse: s-maj=8.2km s-min=4.6km az=32.0.

ISC	**I**	**05 22 27 31.8–.48**	**30.21N–.04**	**51.76E–.05**	**8**	**3.7b**	**97**	**0-94**
IDC	I	05 22 27 29.9–.95	30.14N	51.62E	0	3.9,3.7		¶15941719
ISCJB	I	05 22 27 31.1–.25	30.19N–.02	51.72E–.04	8	3.6b,3.7		
CSEM	I	05 22 27 32.3–.19	30.21N	51.77E	2	4.1s,3.8L		
TEH	I	05 22 27 32.7	30.17N	51.65E	7	3.8L,3.8L		
THR	I	05 22 27 34.6–.39	30.22N	51.66E	46–6	3.9L,3.8L		
DSN	I	05 22 27 36.9–.16	30.16N	52.23E	15	4.1s,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=21.6km s-min=14.2km az=6.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=171.9.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.2km az=69.0.
THR Error ellipse: s-maj=2.5km s-min=4.2km az=-1.0.
DSN Error ellipse: s-maj=8.3km s-min=4.6km az=34.0.

ISC	**I**	**06 20 18 06.3–1.1**	**30.16N–.04**	**51.76E–.05**	**8**		**51**	**0-7**
ISCJB	I	06 20 18 05.3–.39	30.11N–.03	51.71E–.06	8			¶601668387
CSEM	I	06 20 18 05.8–.24	30.17N	51.75E	2	3.8s,3.3L		
THR	I	06 20 18 06.1–.64	30.21N	51.82E	15	3.8L,3.3L		
TEH	I	06 20 18 07.2	30.17N	51.81E	8	3.3L,3.3L		
DSN	I	06 20 18 11.9–.87	29.93N	52.19E	10	3.8s,3.4b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=4.7km az=69.0.
THR Error ellipse: s-maj=2.9km s-min=5.5km az=-1.0.
DSN Error ellipse: s-maj=23.3km s-min=5.4km az=37.0.

ISC	**I**	**06 23 16 50.9–.95**	**30.36N–.03**	**51.73E–.05**	**10**		**33**	**1-6**
ISCJB	I	06 23 16 50.6–.46	30.34N–.03	51.66E–.08	10			¶601902380
CSEM	I	06 23 16 50.6–.47	30.34N	51.69E	5	3.3L		
TEH	I	06 23 16 51.1	30.34N	51.68E	6	3.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.8km az=2.4.
CSEM Event type ke. Error ellipse: s-maj=17.8km s-min=8.8km az=82.0.

ISC	**I**	**07 23 53 01.0–.23**	**30.12N–.03**	**51.59E–.02**	**15**	**4.9b,4.4s**	**1023**	**0-116**
BJI	I	07 23 52 54.8	30.22N	50.95E	10	5.1b,4.9s		¶15909048
ISCJB	I	07 23 52 59.5–.12	30.09N–.02	51.59E–.01	15	4.8b,4.3s		
THR	I	07 23 53 00.8–.72	30.20N	51.68E	15	5.0L,4.3s		
GCMT	I	07 23 53 00.0–.30	30.03N	51.64E	24–1	5.0W,4.3s		
CSEM	I	07 23 53 01.4–.09	30.13N	51.62E	15	5.3s,4.9b		
DSN	I	07 23 53 01.4–.70	29.98N	51.42E	16	5.3s,4.7b		
MOS	I	07 23 53 02.4–1.0	30.19N	51.58E	33	4.9b,4.3s		
TEH	I	07 23 53 02.5	30.10N	51.56E	18	4.9L,4.3s		
IDC	I	07 23 53 03.5–1.5	30.19N	51.63E	31–10	4.6,4.6L		
NEIC	I	07 23 53 03.3–1.4	30.15N	51.59E	30–10	5.0L,4.9b		
OMAN	I	07 23 53 24.8–99	28.90N	52.93E	154–6	5.0L,4.9b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=25.1.
THR Error ellipse: s-maj=2.8km s-min=2.9km az=-1.0.

GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c26; s91,c128; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.17±.21 $M_{\theta\theta}$-2.29±.15; $M_{\phi\phi}$2.46±.16; $M_{r\theta}$0.75±.23; $M_{\theta\phi}$3.37±.14; $M_{\phi r}$-0.98±.24; Best double couple: NP1:ϕ_s343.00000°,δ84.00000° ,λ-164.00000°. NP2:ϕ_s252.00000°,δ74.00000°,λ-6.00000°. Principal axes: T 4.2710,Plg7.0000°,Azm116.0000°; N 0.0670,Plg73.0000°,Azm2.0000° ; P -4.3370,Plg15.0000°,Azm208.0000° M_o4.30400×10^{16}

CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=27.0.
DSN Error ellipse: s-maj=17.7km s-min=6.1km az=68.0.
MOS Error ellipse: s-maj=6.5km s-min=3.6km az=112.6.
IDC Error ellipse: s-maj=9.5km s-min=8.8km az=164.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=191.0.
OMAN Error ellipse: s-maj=170.7km s-min=40.1km az=325.0.

ISC	**I**	**08 00 24 28.2–.59**	**30.10N–.03**	**51.67E–.03**	**31–3**	**5.0b,4.5s**	**1347**	**0-132**
BJI	I	08 00 24 19.8	30.06N	51.16E	10	5.2b,5.0s		¶15909051
ISCJB	I	08 00 24 24.7–.45	30.07N–.01	51.67E–.01	16–3	5.0b,4.5s		
CSEM	I	08 00 24 25.6–.08	30.08N	51.65E	10	5.4s,5.3W		
MOS	I	08 00 24 25.1–1.2	30.05N	51.66E	23	4.9b,4.4s		
DSN	I	08 00 24 25.4–.59	29.95N	51.30E	16	5.4s,5.0b		
OMAN	I	08 00 24 26.8–3.0	29.97N	51.50E	32–48	5.4s,5.0b		
TEH	I	08 00 24 27.3	30.16N	51.68E	10	4.9L,5.0b		
GCMT	I	08 00 24 27.7–.20	30.10N	51.62E	20–1	5.1W,5.0b		
THR	I	08 00 24 27.7–1.0	30.18N	51.71E	39–6	5.2L,5.0b		
NEIC	I	08 00 24 27.7	30.18N	51.71E	39	5.0b,5.0b		
IDC	I	08 00 24 27.5–1.4	30.09N	51.71E	27–8	4.7,4.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=21.9.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=22.0.
MOS Error ellipse: s-maj=6.1km s-min=3.5km az=109.8.
DSN Error ellipse: s-maj=18.5km s-min=5.2km az=62.0.
OMAN Error ellipse: s-maj=35.4km s-min=25.2km az=152.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c74; s99,c158; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.23±.15 $M_{\theta\theta}$1.43±.13; $M_{\phi\phi}$-1.20±.14; $M_{r\theta}$1.02±.25; $M_{\theta\phi}$5.88±.13; $M_{\phi r}$-1.44±.27; Best double couple: NP1:ϕ_s7.00000°,δ80.00000° ,λ-168.00000°. NP2:ϕ_s275.00000°,δ78.00000°,λ-11.00000°. Principal axes: T 6.1420,Plg1.0000°,Azm141.0000°; N 0.2690,Plg74.0000°,Azm48.0000° ; P -6.4120,Plg16.0000°,Azm231.0000° M_o6.27700×10^{16}
THR Error ellipse: s-maj=2.4km s-min=4.1km az=-1.0.
NEIC Event type fe. Felt [III] at Shiraz. Also felt at Bandar Bushehr. After THR.
IDC Error ellipse: s-maj=9.7km s-min=8.4km az=179.0.

ISC	**I**	**08 01 04 58.4–.96**	**30.15N–.03**	**51.84E–.05**	**8**		**38**	**0-7**
TEH	I	08 01 04 55.6	30.19N	51.70E	7	2.9L		¶601668392
ISCJB	I	08 01 04 58.1–.53	30.17N–.02	51.84E–.07	8	2.9L		
CSEM	I	08 01 04 58.6–.28	30.15N	51.81E	10	3.5s,2.9L		
DSN	I	08 01 05 05.0–1.1	29.59N	51.88E	16	4.9L,3.5s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=3.6km az=2.3.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=4.5km az=86.0.
DSN Error ellipse: s-maj=27.1km s-min=8.0km az=32.0.

ISC	**I**	**08 01 07 39.4–1.1**	**30.13N–.04**	**51.64E–.06**	**8**		**36**	**0-7**
TEH	I	08 01 07 36.6	30.07N	51.57E	22	2.9L		¶601668393
ISCJB	I	08 01 07 38.2–.57	30.15N–.03	51.68E–.06	8	2.9L		
CSEM	I	08 01 07 38.8–.28	30.17N	51.79E	5	3.5s,2.9L		
DSN	I	08 01 07 43.2–1.1	30.21N	52.40E	16	3.5s,3.1b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.9km az=170.9.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=4.6km az=85.0.
DSN Error ellipse: s-maj=34.4km s-min=7.5km az=43.0.

ISC	**I**	**08 02 30 46.6–1.1**	**30.17N–.04**	**51.78E–.05**	**8**		**48**	**0-7**
ISCJB	I	08 02 30 46.1–.48	30.12N–.03	51.79E–.06	8			¶601668395
CSEM	I	08 02 30 46.5–.30	30.16N	51.76E	2	3.8s,3.3L		
TEH	I	08 02 30 47.6	30.15N	51.74E	8	3.3L,3.3L		
DSN	I	08 02 30 53.6–1.0	29.97N	52.32E	16	3.8s,3.1b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.5km az=2.3.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=5.3km az=79.0.
DSN Error ellipse: s-maj=26.5km s-min=6.9km az=38.0.

ISC	**I**	**08 10 29 50.0–1.1**	**30.15N–.05**	**51.74E–.05**	**15**		**42**	**0-6**
ISCJB	I	08 10 29 48.7–.46	30.15N–.03	51.69E–.06	15			¶601902408
CSEM	I	08 10 29 48.6–.30	30.17N	51.70E	2	3.4L		
TEH	I	08 10 29 49.4	30.13N	51.68E	8	3.4L		
THR	I	08 10 29 49.5–.38	30.25N	51.74E	14–11	3.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.2km az=165.3.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=6.0km az=68.0.
THR Error ellipse: s-maj=3.5km s-min=2.3km az=-1.0.

ISC	**I**	**09 18 11 04.1–.44**	**30.28N–.03**	**57.45E–.03**	**15**	**3.7b**	**114**	**0-91**
IDC	I	09 18 11 01.4–.68	30.17N	57.37E	0	3.9,3.8		¶15941720
ISCJB	I	09 18 11 03.4–.24	30.26N–.02	57.44E–.03	15	3.7b,3.8		
THR	I	09 18 11 04.2–.37	30.33N	57.35E	14–5	4.5L,3.8		
CSEM	I	09 18 11 04.1–.22	30.30N	57.44E	5	4.7s,4.3L		
TEH	I	09 18 11 04.3	30.23N	57.46E	5	4.3L,4.3L		
BJI	I	09 18 11 05.0	30.30N	57.50E	6	4.5s,4.4		
DSN	I	09 18 11 07.8–.75	30.03N	57.83E	15	5.2L,4.7s		
OMAN	I	09 18 11 10.4–44	30.07N	56.87E	10	5.2L,4.7s		

ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=13.8km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=25.2.
THR Error ellipse: s-maj=2.2km s-min=4.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=102.0.
DSN Error ellipse: s-maj=36.8km s-min=6.3km az=110.0.
OMAN Error ellipse: s-maj=15.3km s-min=1.3km az=258.0.

ISC	**I**	**14 12 00 18.8–1.3**	**30.14N–.04**	**51.65E–.08**	**15**		**26**	**0-4**
ISCJB	I	14 12 00 17.5–.95	30.12N–.05	51.4E–.10	15			¶601902593
THR	I	14 12 00 17.2–.30	30.17N	51.75E	15	3.6L		
TEH	I	14 12 00 19.7	30.07N	51.51E	31	3.4L		
CSEM	I	14 12 00 20.5–.51	30.11N	51.64E	30	3.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=5.8km az=160.2.
THR Error ellipse: s-maj=1.5km s-min=3.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=20.1km s-min=8.9km az=80.0.

ISC	**I**	**16 12 01 44.0–.89**	**36.80N–.03**	**50.68E–.04**	**10**		**67**	**1-6**
ISCJB	I	16 12 01 43.4–.33	36.86N–.03	50.69E–.05	10			¶601685844
TEH	I	16 12 01 45.1	36.79N	50.73E	6	3.5L		
CSEM	I	16 12 01 46.0–.18	36.77N	50.62E	20	3.5L		
AZER	I	16 12 01 48.5–.29	37.14N	50.19E	10	3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=2.7km az=151.5.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.7km az=59.0.
AZER Error ellipse: s-maj=10.8km s-min=8.1km az=37.0.

ISC	**I**	**25 07 04 05.1–.56**	**30.11N–.04**	**51.76E–.05**	**8**	**3.7b**	**80**	**0-94**
IDC	I	25 07 04 03.6–1.2	30.04N	51.57E	0	3.8,3.7		¶17190947
ISCJB	I	25 07 04 04.2–.30	30.11N–.03	51.70E–.04	8	3.6b,3.7		
CSEM	I	25 07 04 05.5–.24	30.12N	51.72E	5	3.6L,3.7		
TEH	I	25 07 04 06.7	30.12N	51.70E	10	3.6L,3.7		
THR	I	25 07 04 07.8–.97	30.19N	51.72E	38–7	3.8L,3.7		
OMAN	I	25 07 04 22.7–99	29.31N	52.66E	175	3.8L,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=25.7km s-min=20.5km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=157.8.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=4.8km az=58.0.
THR Error ellipse: s-maj=2.8km s-min=5.8km az=-1.0.
OMAN Error ellipse: s-maj=55.4km s-min=9.5km az=290.0.

ISC	**I**	**28 04 53 05.9–1.0**	**35.94N–.04**	**53.25E–.04**	**10**		**66**	**1-8**
THR	I	28 04 53 02.7–1.1	35.96N	53.42E	15–13	3.5L		¶601686418
ISCJB	I	28 04 53 05.9–.55	36.04N–.02	53.11E–.04	10	3.5L		
CSEM	I	28 04 53 06.6–.31	35.95N	53.11E	2	3.3L		
TEH	I	28 04 53 07.6	35.81N	53.24E	5	3.3L		
AZER	I	28 04 53 08.4–99	36.16N	53.08E	20–27	3.3L		

ISC Event type ke.
THR Error ellipse: s-maj=12.2km s-min=12.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=9.6.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.2km az=108.0.
AZER Error ellipse: s-maj=320.5km s-min=12.1km az=315.0.

TEH	**I**	**29 05 35 42.5**	**33.48N**	**57.39E**	**5**	**3.1L**		
CSEM	I	29 05 35 42.0–.20	33.42N	57.39E	2	2.9L		¶601903179

CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.8km az=32.0.

ISC	**I**	**30 12 04 01.8–.61**	**30.23N–.04**	**51.80E–.05**	**8**	**3.6s,3.6b**	**72**	**0-87**
ISCJB	I	30 12 04 01.1–.30	30.21N–.03	51.83E–.05	8	3.6s,3.6b		¶15998186
IDC	I	30 12 04 02.0–1.4	30.28N	51.46E	0	3.9,3.7		
THR	I	30 12 04 01.2–.38	30.33N	51.94E	14–8	3.9L,3.7		
TEH	I	30 12 04 02.2	30.15N	51.67E	3	3.8L,3.7		
CSEM	I	30 12 04 02.3–.19	30.21N	51.86E	10	4.0s,3.8L		
ISN	I	30 12 04 04.6–1.6	28.21N	50.60E	0–6	3.8L,3.8L		
DSN	I	30 12 04 06.4–1.5	29.87N	51.87E	15	4.0s,3.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.5km az=165.4.
IDC Error ellipse: s-maj=29.4km s-min=18.2km az=177.0.
THR Error ellipse: s-maj=2.6km s-min=4.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.1km az=64.0.
ISN Error ellipse: s-maj=20.9km s-min=19.0km az=-1.0.
DSN Error ellipse: s-maj=40.4km s-min=10.5km az=35.0.

ISC	**I**	**31 13 06 27.2–1.2**	**31.84N–.06**	**50.82E–.05**	**16**		**29**	**1-5**
TEH	I	31 13 06 26.8	32.08N	50.73E	5	3.4L		¶601903202
CSEM	I	31 13 06 26.1–.98	31.80N	50.73E	10	3.4L		
THR	I	31 13 06 26.6–.46	31.90N	50.63E	16	3.5L		
ISCJB	I	31 13 06 27.9–.79	32.02N–.07	50.75E–.07	16	3.5L		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**II**	**08 06 24 19.4–.32**	**36.54N–.03**	**55.56E–.02**	**10**	**4.3b,3.4s**	**300**	**1-131**
ISN	II	08 06 24 15.4–.46	37.00N	56.04E	2–114	4.5L,3.4s		¶16012706
IDC	II	08 06 24 17.2–.65	36.40N	55.47E	0	4.2,4.1		
ISCJB	II	08 06 24 18.7–.17	36.67N–.02	55.61E–.02	10	4.3b,3.5s		
CSEM	II	08 06 24 19.9–.11	36.63N	55.59E	10	4.4b,3.5s		
THR	II	08 06 24 19.8–.66	36.56N	55.74E	10–6	4.3L,3.5s		
MOS	II	08 06 24 19.4–1.4	36.63N	55.61E	19	4.5b,3.5s		
BJI	II	08 06 24 20.1	36.39N	56.03E	5	4.8b,4.4s		
TEH	II	08 06 24 20.5	36.55N	55.53E	5	4.4L,4.4s		
NEIC	II	08 06 24 21.3	36.54N	55.52E	10	4.5,4.4b		
NNC	II	08 06 24 27.1–1.3	36.96N	55.85E	32–7	5.0,4.4b		

ISC Event type ke.
ISN Error ellipse: s-maj=26.0km s-min=175.0km az=-1.0.
IDC Error ellipse: s-maj=14.1km s-min=8.8km az=167.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=171.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=165.0.
THR Error ellipse: s-maj=3.2km s-min=4.2km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=5.0km az=101.6.
NEIC Event type se. After TEH.
NNC Event type se. Error ellipse: s-maj=10.5km s-min=9.0km az=163.0.

ISC	**II**	**09 23 34 37.1–1.4**	**35.63N–.03**	**57.96E–.03**	**5–11**	**3.4b**	**61**	**1-55**
IDC	II	09 23 34 35.4–1.3	35.53N	57.84E	0	3.6,3.6		¶17191976
THR	II	09 23 34 37.3–1.1	35.70N	57.98E	14–10	3.6L,3.6		
CSEM	II	09 23 34 37.2–.18	35.63N	57.95E	2	3.5L,3.6		
TEH	II	09 23 34 38.1	35.60N	57.94E	5	3.5L,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=19.8km az=164.0.
THR Error ellipse: s-maj=3.3km s-min=6.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=147.0.

ISC	**II**	**10 23 42 07.2–.97**	**30.18N–.05**	**51.53E–.05**	**15**		**38**	**0-7**
CSEM	II	10 23 42 06.8–.38	30.17N	51.55E	2	3.2L		¶602001376
ISCJB	II	10 23 42 07.7–.44	30.16N–.03	51.60E–.05	15	3.2L		
TEH	II	10 23 42 08.1	30.16N	51.54E	6	3.2L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=5.1km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=163.7.

ISC	**II**	**13 19 34 16.8–.71**	**34.17N–.03**	**57.11E–.03**	**10**	**3.3b**	**66**	**1-26**
THR	II	13 19 34 13.7–.35	34.23N	57.01E	14–3	3.7L		¶17192167
ISCJB	II	13 19 34 15.3–.33	34.18N–.03	57.09E–.04	10	3.3b		
CSEM	II	13 19 34 15.8–.14	34.15N	57.14E	5	3.6L		
IDC	II	13 19 34 15.2–3.7	34.21N	56.94E	0	3.5,3.5		
TEH	II	13 19 34 16.4	34.13N	57.14E	5	3.6L,3.5		

ISC Event type ke.
THR Error ellipse: s-maj=1.8km s-min=1.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=14.7.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=18.0.
IDC Error ellipse: s-maj=57.5km s-min=25.7km az=1.0.

ISC	**II**	**17 06 10 40.6–1.3**	**30.3N–.10**	**50.15E–.06**	**10**	**3.9b**	**14**	**2-48**
IDC	II	17 06 10 29.3–6.8	30.03N	51.00E	0	3.9,3.9b		¶16358619
ISN	II	17 06 10 31.1–43	30.27N	50.12E	0–151	3.2L,3.9b		
ISCJB	II	17 06 10 38.4–.88	30.24N–.10	50.07E–.05	10	3.8b,3.9b		
CSEM	II	17 06 10 38.7–.15	30.22N	50.20E	2	3.2L,3.9b		
TEH	II	17 06 10 40.9	30.15N	50.04E	35	3.2L,3.9b		

ISC Event type ke.
IDC Error ellipse: s-maj=136.7km s-min=44.3km az=108.0.
ISN Error ellipse: s-maj=16.4km s-min=25.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=5.3km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.4km az=7.0.

ISC	**II**	**20 11 22 16.3–.65**	**35.40N–.03**	**51.85E–.02**	**10**		**113**	**0-28**
ISN	II	20 11 22 04.8–.61	35.73N	52.64E	0–37	4.1L		¶16057002
ISCJB	II	20 11 22 15.6–.29	35.41N–.02	51.83E–.02	10	4.2b		
CSEM	II	20 11 22 15.6–.20	35.42N	51.85E	2	4.0L		
NEIC	II	20 11 22 16.0	35.43N	51.83E	7	4.2L,4.1		
THR	II	20 11 22 16.4–1.2	35.42N	51.76E	15–8	4.1L,4.1		
TEH	II	20 11 22 16.5	35.45N	51.83E	5	4.0L,4.1		
AZER	II	20 11 22 20.2–.06	35.45N	51.97E	54–3	4.0L,4.1		

ISC Event type fe.
ISN Error ellipse: s-maj=17.0km s-min=55.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.7km az=163.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=154.0.
NEIC Event type fe. Felt at Tehran. After TEH.
THR Error ellipse: s-maj=4.0km s-min=5.5km az=-1.0.
AZER Error ellipse: s-maj=4.6km s-min=4.1km az=255.0.

ISC	**II**	**22 03 19 58.1–1.3**	**36.05N–.05**	**53.18E–.08**	**10**		**44**	**0-7**
ISCJB	II	22 03 19 56.6–.58	36.16N–.04	53.26E–.05	10			¶601710535
TEH	II	22 03 19 56.9	36.08N	53.31E	26	2.7L		
CSEM	II	22 03 19 59.0–.26	36.01N	53.12E	15	2.7L		
AZER	II	22 03 20 00.4–1.9	36.24N	53.09E	2	2.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=88.0.
AZER Error ellipse: s-maj=29.3km s-min=17.8km az=52.0.

ISC	**II**	**25 16 03 11.6–.84**	**36.45N–.04**	**52.13E–.03**	**7**		**46**	**0-7**
ISCJB	II	25 16 03 10.9–.47	36.49N–.03	52.10E–.04	7			¶601710581
CSEM	II	25 16 03 11.8–.35	36.48N	52.13E	2	3.0L		
TEH	II	25 16 03 13.9	36.41N	52.17E	5	3.0L		
AZER	II	25 16 03 16.6–99	36.94N	51.98E	16–206	3.0L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=136.9.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.3km az=50.0.
AZER Error ellipse: s-maj=232.1km s-min=31.1km az=316.0.

ISC	**III**	**01 06 32 23.3–.84**	**35.49N–.04**	**57.60E–.04**	**10**	**3.3b**	**46**	**1-55**
ISCJB	III	01 06 32 21.5–.38	35.47N–.03	57.63E–.04	10	3.3b,3.1s		¶17193046
THR	III	01 06 32 22.6–.46	35.48N	57.44E	14–5	3.5L,3.1s		
CSEM	III	01 06 32 23.7–.27	35.50N	57.59E	20	3.5L,3.1s		
IDC	III	01 06 32 23.3–2.1	35.85N	57.33E	0	3.6,3.5		
TEH	III	01 06 32 25.1	35.52N	57.67E	34	3.7L,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=135.4.
THR Error ellipse: s-maj=2.2km s-min=4.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=7.5km az=150.0.

IDC	Error ellipse: s-maj=46.2km s-min=19.9km az=164.0.							
ISC	**III**	**02 08 52 40.5–.75**	**32.92N–.04**	**60.18E–.05**	**13**	**3.7b**	**47**	**0-90**
IDC	III	02 08 52 37.2–1.1	32.65N	60.28E	0	3.9,3.8		**¶17193118**
ISCJB	III	02 08 52 39.6–.52	32.90N–.03	60.25E–.05	13	3.6b,3.8		
TEH	III	02 08 52 40.4	32.86N	60.26E	3	3.7L,3.8		
CSEM	III	02 08 52 40.9–.27	32.92N	60.15E	2	3.7L,3.8		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=24.7km s-min=22.1km az=168.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=4.2km az=28.4.							
CSEM	Event type ke. Error ellipse: s-maj=7.3km s-min=3.6km az=106.0.							
ISC	**III**	**05 03 44 54.1–.98**	**30.22N–.08**	**50.99E–.07**	**22**	**3.9b**	**42**	**1-48**
IDC	III	05 03 44 52.0–2.2	30.48N	50.70E	0	3.8b,3.6		**¶17193265**
ISCJB	III	05 03 44 52.4–.65	30.17N–.06	50.88E–.06	22	3.7b,3.6		
CSEM	III	05 03 44 53.6–.20	30.24N	51.02E	10	3.3L,3.6		
TEH	III	05 03 44 55.2	30.20N	51.03E	19	3.3L,3.6		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=50.7km s-min=24.6km az=153.0.							
ISCJB	Event type ke. Error ellipse: s-maj=9.4km s-min=5.0km az=37.7.							
CSEM	Event type ke. Error ellipse: s-maj=6.0km s-min=2.9km az=40.0.							
ISC	**III**	**05 11 24 44.7–.42**	**30.01N–.03**	**51.16E–.02**	**15–2**	**5.2b,4.8s**	**1272**	**1-171**
ISN	III	05 11 24 29.8–1.8	29.37N	51.77E	0–238	5.2L,4.8s		**¶16196156**
BJI	III	05 11 24 35.2	29.72N	50.24E	10	5.2b,5.2s		
TEH	III	05 11 24 41.7	30.04N	51.11E	6	5.2L,5.2s		
ISCJB	III	05 11 24 42.3–.46	29.98N–.02	51.11E–.01	12–2	5.2b,4.7s		
IDC	III	05 11 24 42.1–.35	30.06N	51.18E	0	5.0,4.9		
CSEM	III	05 11 24 43.9–.09	30.01N	51.14E	10	5.3b,5.3W		
GCMT	III	05 11 24 43.7–.10	29.99N	51.05E	12	5.3W,5.3W		
THR	III	05 11 24 43.9–1.0	30.02N	51.19E	15	5.1L,5.3W		
NEIC	III	05 11 24 43.7–.14	30.02N	51.16E	10	5.2,5.1L		
MOS	III	05 11 24 45.5–1.2	30.02N	51.15E	33	5.3b,4.7s		
OMAN	III	05 11 24 46.9–99	29.74N	51.21E	1–18	5.3b,4.7s		
ISC	Event type fe.							
ISN	Error ellipse: s-maj=164.3km s-min=282.9km az=-1.0.							
ISCJB	Event type fe. Error ellipse: s-maj=3.4km s-min=1.8km az=21.3.							
IDC	Error ellipse: s-maj=9.1km s-min=8.8km az=175.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=22.0.							
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s86,c132; s118,c203; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.01 $M_{\theta\theta}$-0.69±.01; $M_{\phi\phi}$-0.28±.01; $M_{r\theta}$-0.14±.04; $M_{\theta\phi}$0.52±.01; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s302.00000°,δ49.00000°,λ87.00000°. NP2:ϕ_s126.00000°,δ41.00000°,λ93.00000°. Principal axes: T 0.9860,Plg85.0000°,Azm189.0000°; N 0.0700,Plg2.0000°,Azm304.0000°; P -1.0560,Plg4.0000°,Azm34.0000° $M_0$1.02100×10^{17}							
THR	Error ellipse: s-maj=6.9km s-min=4.2km az=-1.0.							
NEIC	Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=20.0. Felt at Shiraz.							
MOS	Error ellipse: s-maj=5.2km s-min=3.0km az=114.1.							
OMAN	Error ellipse: s-maj=440.1km s-min=9.7km az=316.0.							
ISC	**III**	**05 11 28 43.9–.65**	**30.07N–.09**	**50.97E–.07**	**22**	**4.1b**	**35**	**1-87**
ISN	III	05 11 28 25.6–1.6	28.65N	51.71E	0–182	4.0L		**¶16442190**
NEIC	III	05 11 28 39.0	30.04N	51.02E	11	4.0		
TEH	III	05 11 28 39.8	30.04N	51.02E	11	4.0L		
CSEM	III	05 11 28 40.6–.30	30.09N	51.01E	2	4.0L		
IDC	III	05 11 28 40.8–1.5	30.16N	51.00E	0	4.6,4.6s		
ISCJB	III	05 11 28 42.7–.58	30.20N–.09	50.90E–.06	22	4.6s,4.1b		
ISC	Event type ke.							
NEIC	Event type se. After TEH.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**06 05 42 20.2–.56**	**30.02N–.05**	**51.25E–.04**	**22**	**3.8b**	**51**	**1-87**
ISN	III	06 05 42 05.7–1.9	29.83N	51.92E	0	3.5L		**¶16484451**
IDC	III	06 05 42 16.4–1.2	30.05N	51.14E	0	4.0,4.0		
ISCJB	III	06 05 42 18.9–.34	30.02N–.04	51.13E–.04	22	3.9b,4.0		
CSEM	III	06 05 42 19.7	29.99N	51.19E	12	3.5L,4.0		
TEH	III	06 05 42 19.7	29.99N	51.19E	12	3.5L,4.0		
ISC	Event type ke.							
ISN	Error ellipse: s-maj=8.1km s-min=34.5km az=-1.0.							
IDC	Error ellipse: s-maj=27.0km s-min=19.8km az=148.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=4.0.							
CSEM	Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**III**	**15 14 12 18.3–2.0**	**36.85N–.03**	**50.40E–.04**	**29–20**		**97**	**1-6**
CSEM	III	15 14 12 16.1–.17	36.83N	50.36E	10	3.9L		**¶16594130**
TEH	III	15 14 12 17.3	36.82N	50.45E	7	3.9L		
AZER	III	15 14 12 18.5–1.1	37.03N	50.23E	5	3.9L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.0km s-min=3.1km az=58.0.							
AZER	Error ellipse: s-maj=11.6km s-min=7.2km az=79.0.							
ISC	**III**	**24 12 42 12.8–1.0**	**30.04N–.04**	**51.52E–.05**	**15**		**51**	**0-7**
TEH	III	24 12 42 12.3	30.27N	51.75E	8	3.4L		**¶601847508**
OMAN	III	24 12 42 12.3	30.27N	51.75E	8	3.4L		
THR	III	24 12 42 13.0–1.1	30.15N	51.71E	14–11	3.5L		
CSEM	III	24 12 42 13.9–.30	30.21N	51.72E	2	3.4L		
ISC	Event type ke.							
OMAN	Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.							
THR	Error ellipse: s-maj=4.0km s-min=8.0km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=67.0.							
ISC	**III**	**27 01 09 00.7–.74**	**31.85N–.06**	**50.16E–.05**	**15**	**3.5b**	**34**	**1-85**
TEH	III	27 01 08 54.2	32.03N	49.61E	5	3.4L		**¶17198707**
IDC	III	27 01 08 58.2–1.3	31.97N	50.24E	0	3.8,3.7		
CSEM	III	27 01 08 59.3–.39	31.91N	50.18E	2	3.4L,3.7		
ISCJB	III	27 01 08 59.4–.46	32.00N–.05	50.10E–.04	15	3.6b,3.7		
ISC	Event type ke.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
ISC	**III**	**31 21 47 10.6–.98**	**31.82N–.03**	**56.19E–.03**	**10**		**71**	**1-6**
THR	III	31 21 47 09.3–.62	31.86N	56.19E	14–13	3.5L		**¶602003760**
CSEM	III	31 21 47 10.2–.18	31.85N	56.22E	2	3.4L		
ISCJB	III	31 21 47 10.5–.36	31.91N–.03	56.20E–.04	10	3.4L		
TEH	III	31 21 47 11.4	31.85N	56.22E	5	3.4L		
ISC	Event type ke.							
THR	Error ellipse: s-maj=1.6km s-min=8.8km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=173.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.0km s-min=4.5km az=162.9.							
ISC	**IV**	**02 07 01 16.1–.78**	**31.52N–.04**	**59.87E–.05**	**15**	**3.5b**	**56**	**1-86**
IDC	IV	02 07 01 12.5–1.4	31.27N	59.78E	0	3.7,3.6		**¶17199504**
THR	IV	02 07 01 13.6–.66	31.52N	59.93E	14–13	4.2L,3.6		
ISCJB	IV	02 07 01 15.2–.50	31.51N–.04	59.80E–.06	15	3.5b,3.6		
CSEM	IV	02 07 01 15.0–.16	31.51N	59.83E	2	4.1L,3.6		
TEH	IV	02 07 01 17.3	31.53N	59.72E	4	4.1L,3.6		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=30.6km s-min=19.3km az=139.0.							
THR	Error ellipse: s-maj=3.0km s-min=11.2km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=4.8km az=17.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.8km s-min=2.7km az=101.0.							
ISC	**IV**	**06 12 12 26.8–.79**	**35.44N–.02**	**52.00E–.02**	**10**		**95**	**0-7**
ISCJB	IV	06 12 12 26.6–.32	35.49N–.02	51.98E–.03	10			**¶601711061**
CSEM	IV	06 12 12 26.8–.15	35.46N	51.99E	2	3.8L		
THR	IV	06 12 12 26.3–1.3	35.50N	51.96E	15–11	3.9L		
AZER	IV	06 12 12 26.5–99	35.61N	51.84E	2–49	3.9L		
TEH	IV	06 12 12 27.0	35.49N	51.98E	5	3.8L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=155.9.							
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=77.0.							
THR	Error ellipse: s-maj=4.6km s-min=8.0km az=-1.0.							
AZER	Error ellipse: s-maj=329.2km s-min=16.0km az=329.0.							
TEH	**IV**	**07 09 08 06.5**	**34.48N**	**51.30E**	**7**	**3.5L**		
CSEM	IV	07 09 08 05.8–.26	34.49N	51.27E	10	3.4L		**¶602003905**
CSEM	Event type ke. Error ellipse: s-maj=8.4km s-min=6.0km az=88.0.							
ISC	**IV**	**11 00 08 46.0–.84**	**34.49N–.03**	**50.92E–.04**	**7**		**34**	**0-3**
ISCJB	IV	11 00 08 46.6–.46	34.55N–.04	50.84E–.04	7			**¶602003945**
CSEM	IV	11 00 08 46.4–.22	34.52N	50.85E	2	3.9L		
THR	IV	11 00 08 46.8–.50	34.50N	50.83E	14–4	3.7L		
TEH	IV	11 00 08 47.0	34.49N	50.82E	4	4.0L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=11.5.							
CSEM	Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=53.0.							
THR	Error ellipse: s-maj=2.7km s-min=1.4km az=-1.0.							
ISC	**IV**	**21 21 23 41.7–.84**	**33.52N–.03**	**52.36E–.03**	**10**	**3.4b**	**51**	**1-94**
IDC	IV	21 21 23 38.3–1.7	33.34N	52.18E	0	3.7,3.6L		**¶17201747**
ISCJB	IV	21 21 23 40.7–.32	33.50N–.02	52.35E–.03	10	3.3b,3.2s		
THR	IV	21 21 23 40.6–1.0	33.54N	52.36E	14–11	3.7L,3.2s		
CSEM	IV	21 21 23 41.6–.18	33.48N	52.38E	10	4.0L,3.2s		
TEH	IV	21 21 23 41.3	33.55N	52.39E	2	4.0L,3.2s		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=42.2km s-min=24.3km az=22.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=166.8.							
THR	Error ellipse: s-maj=6.2km s-min=7.8km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=79.0.							
ISC	**IV**	**22 19 41 42.7–.63**	**31.84N–.06**	**50.16E–.04**	**15**	**3.5b**	**75**	**1-85**
IDC	IV	22 19 41 40.3–1.5	31.91N	50.17E	0	3.8,3.7		**¶16505492**
ISCJB	IV	22 19 41 41.6–.43	31.74N–.05	50.13E–.04	15	3.5b,3.7		
CSEM	IV	22 19 41 43.2–.29	31.83N	50.17E	10	3.3L,3.7		
TEH	IV	22 19 41 43.9	31.85N	50.18E	6	3.5L,3.7		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=31.4km s-min=16.0km az=177.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=9.6.							
CSEM	Event type ke. Error ellipse: s-maj=7.9km s-min=5.4km az=32.0.							
ISC	**IV**	**23 08 00 50.0–1.1**	**34.95N–.04**	**58.03E–.04**	**10**		**45**	**2-5**
ISCJB	IV	23 08 00 49.3–.40	34.94N–.03	58.00E–.06	10			**¶602004072**
THR	IV	23 08 00 50.6–.60	34.90N	58.02E	41–8	4.0L		
CSEM	IV	23 08 00 51.2–.17	34.96N	58.02E	20	4.0L		
TEH	IV	23 08 00 51.2	34.98N	58.07E	17	3.8L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=18.5.							
THR	Error ellipse: s-maj=4.0km s-min=4.9km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=107.0.							
ISC	**IV**	**30 08 55 13.0–.57**	**30.71N–.04**	**57.35E–.03**	**15**	**3.7b**	**74**	**1-87**
IDC	IV	30 08 55 10.1–1.3	30.61N	57.33E	0	3.8,3.8L		**¶16684738**
CSEM	IV	30 08 55 12.5–.23	30.68N	57.35E	10	4.1L,3.8L		
ISCJB	IV	30 08 55 12.4–.41	30.74N–.04	57.30E–.05	15	3.6b,3.8L		
NEIC	IV	30 08 55 13.0	30.73N	57.35E	6	4.1,3.8b		
TEH	IV	30 08 55 13.0	30.73N	57.35E	6	4.1L,3.8b		
THR	IV	30 08 55 13.2–.80	30.84N	57.08E	14–7	3.7L,3.8b		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=28.7km s-min=20.5km az=146.0.							
CSEM	Event type ke. Error ellipse: s-maj=7.5km s-min=5.5km az=119.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=34.5.							
NEIC	Event type se. After TEH.							
THR	Error ellipse: s-maj=2.3km s-min=8.4km az=-1.0.							
ISC	**V**	**06 00 49 19.5–.85**	**36.11N–.04**	**53.30E–.03**	**10**		**73**	**0-7**
ISCJB	V	06 00 49 19.3–.47	36.17N–.02	53.22E–.04	10			**¶601711318**
TEH	V	06 00 49 19.5	36.15N	53.30E	5	3.0L		
CSEM	V	06 00 49 20.0–.25	36.14N	53.22E	2	3.0L		
AZER	V	06 00 49 23.7–4.8	36.33N	53.06E	5	3.0L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.4km s-min=3.0km az=162.1.							
CSEM	Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=78.0.							
AZER	Error ellipse: s-maj=66.8km s-min=33.2km az=50.0.							
ISC	**V**	**08 10 53 21.6–.64**	**30.67N–.07**	**50.35E–.06**	**25**	**3.9b**	**53**	**2-86**
ISCJB	V	08 10 53 20.1–.49	30.60N–.05	50.29E–.06	25	3.8b,2.6s		**¶17203041**
CSEM	V	08 10 53 22.3–.26	30.73N	50.43E	10	4.0L,2.6s		
THR	V	08 10 53 23.2–.46	30.75N	50.29E	36–15	3.9L,2.6s		
TEH	V	08 10 53 23.1	30.70N	50.41E	17	4.0L,2.6s		
IDC	V	08 10 53 24.1–2.9	30.70N	50.33E	50–29	3.9,3.7		
DSN	V	08 10 53 28.9–1.4	30.73N	51.47E	10	3.9,3.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=5.7km az=145.1.							
CSEM	Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=59.0.							
THR	Error ellipse: s-maj=3.8km s-min=13.9km az=-1.0.							
IDC	Error ellipse: s-maj=23.8km s-min=16.7km az=5.0.							
DSN	Error ellipse: s-maj=69.1km s-min=10.2km az=45.0.							
TEH	**V**	**08 11 44 20.8**	**30.81N**	**57.48E**	**4**	**2.8L**		
OMAN	V	08 11 44 20.8	30.81N	57.48E	4	2.8L		**¶602004222**
CSEM	V	08 11 44 21.8–.70	30.74N	57.33E	5	2.9L		
DSN	V	08 11 45 16.9–.15	26.84N	56.20E	10	2.9L		
CSEM	Event type ke. Error ellipse: s-maj=20.5km s-min=7.2km az=52.0.							
DSN	Error ellipse: s-maj=12.3km s-min=2.5km az=258.0.							
ISC	**V**	**12 14 25 59.7–.28**	**30.98N–.03**	**51.23E–.03**	**15**	**4.7b,4.2s**	**551**	**1-170**
ISN	V	12 14 25 49.2–.81	30.79N	51.73E	0–57	4.8L,4.2s		**¶16506968**
IDC	V	12 14 25 58.0–.59	31.08N	51.08E	0	4.5,4.4		
THR	V	12 14 25 57.8–1.3	31.01N	51.40E	14–12	4.6L,4.4		
ISCJB	V	12 14 25 57.9–.14	30.93N–.02	51.19E–.02	15	4.7b,4.3s		
TEH	V	12 14 25 59.2	30.94N	51.30E	11	4.8L,4.3s		
NEIC	V	12 14 25 59.0	30.94N	51.30E	11	4.8,4.8b		
OMAN	V	12 14 25 59.2	30.94N	51.30E	11	4.8,4.8b		
CSEM	V	12 14 26 00.1–.11	30.95N	51.18E	20	4.8b,4.8b		
MOS	V	12 14 26 00.7–1.4	30.96N	51.14E	33	4.8b,4.0s		
DSN	V	12 14 26 02.1–.48	30.77N	51.11E	45	5.0b,4.0s		
ISC	Event type ke.							
ISN	Error ellipse: s-maj=26.9km s-min=78.0km az=-1.0.							
IDC	Error ellipse: s-maj=14.3km s-min=11.2km az=143.0.							
THR	Error ellipse: s-maj=4.6km s-min=9.4km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=32.4.							
NEIC	Event type se. After TEH.							
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=31.0.							
MOS	Error ellipse: s-maj=6.5km s-min=4.2km az=112.9.							
DSN	Error ellipse: s-maj=15.9km s-min=4.6km az=62.0.							
TEH	**V**	**17 10 19 49.2**	**36.90N**	**50.87E**	**12**	**2.5L**		
CSEM	V	17 10 19 49.2	36.90N	50.87E	12	2.5L		**¶602004311**
CSEM	Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**24 20 30 09.5–.33**	**35.72N–.03**	**58.70E–.03**	**10**	**4.5b,3.9s**	**403**	**1-92**
ISN	V	24 20 29 56.7–1.1	34.97N	59.60E	0–16	4.7L,3.9s		**¶16544920**
THR	V	24 20 30 07.8–.52	35.68N	58.63E	14–8	4.5L,3.9s		
ISCJB	V	24 20 30 08.2–.16	35.71N–.02	58.70E–.02	10	4.5b,3.9s		
IDC	V	24 20 30 08.1–.62	35.60N	58.61E	0	4.4,4.3L		
CSEM	V	24 20 30 09.7–.11	35.75N	58.70E	10	4.7b,4.3L		
MOS	V	24 20 30 10.3–1.1	35.80N	58.71E	22	4.7b,4.3L		
TEH	V	24 20 30 11.1	35.65N	58.77E	13	4.5L,4.3L		
NEIC	V	24 20 30 11.1	35.65N	58.77E	13	4.6b,4.5		
ISC	Event type ke.							
ISN	Error ellipse: s-maj=11.7km s-min=24.2km az=-1.0.							
THR	Error ellipse: s-maj=2.1km s-min=6.0km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=179.6.							
IDC	Error ellipse: s-maj=12.9km s-min=11.1km az=179.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=166.0.							
MOS	Error ellipse: s-maj=6.6km s-min=5.1km az=124.4.							
NEIC	Event type se. After TEH.							
ISC	**V**	**31 01 13 25.2–.71**	**30.78N–.05**	**56.77E–.03**	**10**	**3.4b**	**53**	**0-37**
ISCJB	V	31 01 13 24.1–.36	30.76N–.03	56.75E–.04	10	3.4b		**¶17204800**
CSEM	V	31 01 13 24.4–.14	30.78N	56.79E	2	3.7L		
THR	V	31 01 13 24.0–.38	30.80N	56.80E	9–7	3.5L		
IDC	V	31 01 13 24.1–1.4	30.72N	56.60E	0	3.5,3.5		
TEH	V	31 01 13 25.2	30.83N	56.80E	5	3.7L,3.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=169.5.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=91.0.							
THR	Error ellipse: s-maj=3.7km s-min=4.0km az=-1.0.							
IDC	Error ellipse: s-maj=25.6km s-min=23.3km az=123.0.							
ISC	**VI**	**08 09 43 44.0–.64**	**31.54N–.05**	**50.18E–.04**	**26**	**3.9b**	**59**	**1-85**
ISN	VI	08 09 43 30.8–.58	31.34N	51.09E	0–83	3.7L		**¶17205548**
IDC	VI	08 09 43 40.9–.91	31.79N	50.08E	0	4.1,4.0		
ISCJB	VI	08 09 43 41.8–.46	31.44N–.05	50.06E–.04	26	3.9b,2.6s		
TEH	VI	08 09 43 42.6	31.55N	50.21E	5	3.7L,2.6s		

THR	VI	08 09 43 42.8–.52	31.54N	50.34E	15	3.5L,2.6s			
CSEM	VI	08 09 43 43.0–.44	31.59N	50.24E	10	3.7L,2.6s			
ISC	Event type ke.								
ISN	Error ellipse: s-maj=47.6km s-min=107.2km az=-1.0.								
IDC	Error ellipse: s-maj=20.7km s-min=17.2km az=165.0.								
ISCJB	Event type ke. Error ellipse: s-maj=7.1km s-min=4.9km az=15.8.								
THR	Error ellipse: s-maj=2.7km s-min=3.9km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=13.6km s-min=8.9km az=29.0.								
ISC	**VI**	**09 10 13 13.2–.39**	**32.19N–.05**	**50.08E–.04**	**15**	**4.5b,3.5s**	**285**	**1-96**	
ISN	VI	09 10 13 02.8–1.3	30.76N	49.50E	0–6	4.1L,3.5s			¶16581054
TEH	VI	09 10 13 09.9	32.34N	50.06E	6	4.1L,3.5s			
MOS	VI	09 10 13 10.5–1.3	32.10N	50.01E	13	4.5b,3.5s			
ISCJB	VI	09 10 13 11.4–.23	32.12N–.03	49.94E–.02	15	4.4b,3.7s			
CSEM	VI	09 10 13 11.5–.17	32.23N	50.00E	2	4.6b,3.7s			
NEIC	VI	09 10 13 12.6–.39	32.21N	49.99E	10	4.7b,4.1			
THR	VI	09 10 13 13.1–1.3	32.23N	49.99E	15	4.0L,4.1			
BJI	VI	09 10 13 14.5	32.20N	50.00E	36	4.8b,4.5b			
IDC	VI	09 10 13 18.7–2.9	32.29N	50.04E	56–23	4.0,3.9			
DSN	VI	09 10 13 25.6–1.4	31.79N	50.83E	36	4.0,3.9			
ISC	Event type ke.								
ISN	Error ellipse: s-maj=13.5km s-min=6.7km az=-1.0.								
MOS	Error ellipse: s-maj=8.8km s-min=4.2km az=119.8.								
ISCJB	Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=12.1.								
CSEM	Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=3.0.								
NEIC	Event type se. Error ellipse: s-maj=8.8km s-min=5.2km az=177.0.								
THR	Error ellipse: s-maj=7.3km s-min=7.2km az=-1.0.								
IDC	Error ellipse: s-maj=24.8km s-min=11.4km az=168.0.								
DSN	Error ellipse: s-maj=57.9km s-min=10.5km az=44.0.								
ISC	**VI**	**11 21 03 14.0–.56**	**30.71N–.04**	**50.47E–.04**	**25**	**3.9b,3.2s**	**69**	**2-63**	
IDC	VI	11 21 03 10.3–1.1	30.73N	50.42E	0	3.9,3.8			¶17205795
THR	VI	11 21 03 12.7–.70	30.84N	50.77E	14–6	3.9L,3.8			
ISCJB	VI	11 21 03 13.7–.37	30.76N–.04	50.39E–.04	25	3.9b,3.1s			
CSEM	VI	11 21 03 13.4–.45	30.65N	50.41E	15	3.8L,3.1s			
TEH	VI	11 21 03 15.5	30.73N	50.51E	16	3.8L,3.1s			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=23.7km s-min=13.8km az=0.0.								
THR	Error ellipse: s-maj=3.3km s-min=4.8km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.6km s-min=5.2km az=173.2.								
CSEM	Event type ke. Error ellipse: s-maj=12.8km s-min=7.4km az=40.0.								
ISC	**VI**	**16 07 03 18.9–.91**	**36.74N–.06**	**54.73E–.04**	**15**		**47**	**1-8**	
TEH	VI	16 07 03 16.5	36.56N	54.78E	6	3.4L			¶601711524
ISCJB	VI	16 07 03 18.7–.48	36.78N–.05	54.65E–.04	15	3.4L			
CSEM	VI	16 07 03 19.0–.21	36.84N	54.67E	10	3.4L			
AZER	VI	16 07 03 19.0–1.3	38.13N	55.31E	25	3.4L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.7km s-min=4.2km az=170.2.								
CSEM	Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=173.0.								
AZER	Error ellipse: s-maj=69.0km s-min=10.9km az=7.0.								
ISC	**VI**	**17 19 55 40.9–.39**	**37.73N–.04**	**56.96E–.02**	**10**	**4.2b,3.4s**	**284**	**0-76**	
ISN	VI	17 19 55 20.4–2.2	37.58N	58.61E	0–234	4.0L,3.4s			¶16730825
NNC	VI	17 19 55 37.9–1.6	37.36N	56.59E	59–25	4.7,4.2b			
THR	VI	17 19 55 39.9–.81	37.68N	57.00E	14–10	3.7L,4.2b			
ISCJB	VI	17 19 55 39.8–.18	37.78N–.02	57.03E–.02	10	4.1b,3.3s			
IDC	VI	17 19 55 39.8–.90	37.69N	56.88E	0	4.1,4.1			
CSEM	VI	17 19 55 40.1–.11	37.78N	57.01E	2	4.5b,4.1			
TEH	VI	17 19 55 42.1	37.74N	57.02E	5	4.0L,4.1			
MOS	VI	17 19 55 42.8–1.4	37.81N	57.08E	33	4.2b,4.1			
NEIC	VI	17 19 55 42.1	37.74N	57.02E	5	4.3b,4.0			
ISC	Event type ke.								
ISN	Error ellipse: s-maj=3.5km s-min=369.7km az=-1.0.								
NNC	Event type se. Error ellipse: s-maj=20.9km s-min=12.4km az=138.0.								
THR	Error ellipse: s-maj=4.3km s-min=4.6km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=4.6.								
IDC	Error ellipse: s-maj=17.2km s-min=7.7km az=177.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=175.0.								
MOS	Error ellipse: s-maj=6.0km s-min=5.5km az=99.4.								
NEIC	Event type se. After TEH.								
ISC	**VI**	**17 20 07 59.3–1.4**	**37.75N–.05**	**56.95E–.03**	**1–10**	**3.6b**	**56**	**1-25**	
NNC	VI	17 20 07 58.1–5.1	37.84N	56.73E	0	4.2,3.9b			¶17206411
IDC	VI	17 20 07 58.4–1.1	37.57N	56.88E	0	3.6,3.6			
CSEM	VI	17 20 08 02.0–.36	37.74N	56.89E	20–0	3.1L,3.6			
TEH	VI	17 20 08 04.2	37.55N	56.98E	14	3.3L,3.6			
ISC	Event type ke.								
NNC	Event type se. Error ellipse: s-maj=50.5km s-min=17.2km az=24.0.								
IDC	Error ellipse: s-maj=12.4km s-min=9.2km az=21.0.								
CSEM	Event type ke. Error ellipse: s-maj=11.6km s-min=7.8km az=167.0.								
ISC	**VI**	**26 10 45 24.0–.57**	**32.01N–.03**	**55.71E–.03**	**10**	**3.8b**	**78**	**0-53**	
IDC	VI	26 10 45 21.8–2.0	31.83N	55.71E	0	3.9,3.8			¶16721003
ISCJB	VI	26 10 45 23.3–.34	32.01N–.03	55.69E–.03	10	3.8b,3.8			
CSEM	VI	26 10 45 23.4–.18	32.02N	55.72E	2	4.0L,3.8			
TEH	VI	26 10 45 24.5	31.99N	55.73E	5	4.0L,3.8			
NEIC	VI	26 10 45 24.0	31.99N	55.73E	5	4.0,3.8b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=43.3km s-min=18.3km az=158.0.								
ISCJB	Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=146.3.								
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=174.0.								
NEIC	Event type se. After TEH.								
ISC	**VI**	**26 19 46 59.2–.46**	**30.04N–.03**	**57.65E–.02**	**25–3**	**5.0b,4.3s**	**736**	**0-126**	
ISN	VI	26 19 46 54.3–.90	30.16N	58.03E	0	5.1L,4.3s			¶16683829
IDC	VI	26 19 46 54.9–.52	29.91N	57.65E	0	4.7,4.6			
CSEM	VI	26 19 46 57.4–.10	30.19N	57.65E	10	5.0b,4.6			
ISCJB	VI	26 19 46 58.1–.14	30.08N–.02	57.58E–.02	29	4.9b,4.4s			
MOS	VI	26 19 46 58.5–1.1	30.04N	57.63E	33	5.2b,4.4s			
THR	VI	26 19 46 58.6–.30	30.12N	57.54E	16–3	5.0L,4.4s			
BJI	VI	26 19 46 59.8	29.95N	57.83E	31	5.2b,4.9b			
TEH	VI	26 19 47 00.8	30.21N	57.63E	13	5.2L,4.9b			
NEIC	VI	26 19 47 00.0	30.21N	57.63E	13	5.2,5.0b			
GCMT	VI	26 19 47 00.0–.20	29.89N	57.57E	22–0	5.1W,5.0b			
OMAN	VI	26 19 47 01.7–21	30.05N	57.81E	38–321	5.1W,5.0b			
DSN	VI	26 19 47 02.0–.30	30.04N	57.73E	37	5.7L,5.0b			
ISC	Event type ke.								
ISN	Error ellipse: s-maj=5.8km s-min=20.1km az=-1.0.								
IDC	Error ellipse: s-maj=13.6km s-min=10.3km az=173.0.								
CSEM	Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=114.0.								
ISCJB	Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=176.0.								
MOS	Error ellipse: s-maj=5.8km s-min=4.0km az=103.5.								
THR	Error ellipse: s-maj=1.4km s-min=2.7km az=-1.0.								
NEIC	Event type se. After TEH.								
GCMT	Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s73,c113; s88,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.52±.16 $M_{\theta\theta}$-3.69±.12; $M_{\phi\phi}$-1.82±.11; $M_{r\theta}$-0.95±.22; $M_{\theta\phi}$2.75±.10; $M_{\phi r}$2.24±.22; Best double couple: NP1:ϕ_s317.00000°,δ56.00000°,λ103.00000°. NP2:ϕ_s114.00000°,δ36.00000°,λ71.00000°. Principal axes: T 6.1530,Plg75.0000°,Azm266.0000°; N -0.1010,Plg11.0000°,Azm130.0000°; P -6.0410,Plg10.0000°,Azm38.0000° $M_0$6.09700×10^{16}								
OMAN	Error ellipse: s-maj=216.6km s-min=83.1km az=14.0.								
DSN	Error ellipse: s-maj=7.8km s-min=2.8km az=100.0.								

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ISC	**II**	**20 13 19 09.5–1.5**	**24.93N–.05**	**56.30E–.08**	**10**		**26**	**0-1**	
ISCJB	II	20 13 19 09.9–1.9	24.92N–.08	56.3E–.20	10				¶601846562
CSEM	II	20 13 19 09.4–.21	24.92N	56.33E	2	3.4L			
OMAN	II	20 13 19 10.1–.06	24.90N	56.30E	2–10	3.4L			
DSN	II	20 13 19 10.5–.66	24.92N	56.28E	3	3.4L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=23.7km s-min=7.4km az=23.6.								
CSEM	Event type ke. Error ellipse: s-maj=5.9km s-min=2.4km az=118.0.								
OMAN	Error ellipse: s-maj=8.3km s-min=2.6km az=286.0.								
DSN	Error ellipse: s-maj=7.7km s-min=2.2km az=115.0.								
DSN	**IV**	**02 04 24 20.0–.76**	**24.94N**	**56.28E**	**3**	**2.6L**			
CSEM	IV	02 04 24 18.4–.60	24.93N	56.38E	2	2.6L			¶601668969
OMAN	IV	02 04 24 19.3–.87	24.89N	56.36E	3	2.6L			
DSN	Error ellipse: s-maj=9.6km s-min=2.7km az=114.0.								
CSEM	Event type ke. Error ellipse: s-maj=15.8km s-min=5.1km az=118.0.								
OMAN	Error ellipse: s-maj=8.6km s-min=2.1km az=112.0.								
DSN	**IV**	**14 13 30 01.7–.51**	**24.93N**	**56.30E**	**3**				
CSEM	IV	14 13 30 02.1	24.88N	56.31E	9				¶601669019
OMAN	IV	14 13 30 02.1–99	24.88N	56.31E	9–11				
DSN	Error ellipse: s-maj=4.6km s-min=2.1km az=121.0.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
OMAN	Error ellipse: s-maj=8.3km s-min=6.2km az=264.0.								
DSN	**IV**	**15 17 28 54.4–.69**	**24.93N**	**56.30E**	**5**	**2.4L**			
CSEM	IV	15 17 28 53.8–.29	24.92N	56.36E	2	2.4L			¶601669024
OMAN	IV	15 17 28 54.8–.05	24.89N	56.31E	2–2	2.4L			
DSN	Error ellipse: s-maj=8.5km s-min=2.0km az=118.0.								
CSEM	Event type ke. Error ellipse: s-maj=7.9km s-min=2.9km az=118.0.								
OMAN	Error ellipse: s-maj=6.0km s-min=1.3km az=289.0.								
ISC	**V**	**09 17 09 53.9–1.8**	**29.2N–.30**	**47.7E–.20**	**14**	**3.6b**	**9**	**8-38**	
ISCJB	V	09 17 09 51.1–1.4	29.0N–.20	47.6E–.20	14	3.5b			¶17203141
IDC	V	09 17 09 53.9–22	29.44N	47.57E	0	3.6b,3.5			
DSN	V	09 17 10 00.5–1.1	29.35N	48.46E	15	3.6b,3.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=40.4km s-min=9.4km az=39.9.								
IDC	Error ellipse: s-maj=452.9km s-min=33.0km az=9.0.								
DSN	Error ellipse: s-maj=35.3km s-min=9.0km az=27.0.								
OMAN	**V**	**26 08 43 34.8–2.7**	**17.49N**	**55.23E**	**4–14**				
									¶602587390
OMAN	Error ellipse: s-maj=22.5km s-min=6.1km az=172.0.								
DSN	**VI**	**19 08 55 48.9–.42**	**24.79N**	**55.85E**	**0**	**1.0L**			
CSEM	VI	19 08 55 48.8	24.79N	55.85E	0	1.0L			¶601654444
DSN	Error ellipse: s-maj=3.7km s-min=2.8km az=38.0.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								

(352) Persian Gulf.

TEH	**III**	**02 11 28 37.1**	**27.89N**	**51.45E**	**18**	**3.3L**			
									¶602002463
ISC	**V**	**09 00 09 21.5–2.4**	**27.92N–.08**	**50.9E–.10**	**35**		**35**	**2-6**	
CSEM	V	09 00 09 20.2–.39	28.05N	51.22E	2	3.2L			¶602587371
OMAN	V	09 00 09 26.1	28.24N	51.27E	27	3.2L			
TEH	V	09 00 09 26.1	28.24N	51.27E	27	3.2L			
DSN	V	09 00 09 33.7–.23	27.66N	52.19E	10	3.1L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=11.6km s-min=4.7km az=70.0.								
DSN	Error ellipse: s-maj=9.6km s-min=4.5km az=7.0.								

(353) Southern Iran.

ISC	**I**	**01 01 13 02.8–.74**	**27.33N–.03**	**55.85E–.04**	**15**		**49**	**0-9**	
TEH	I	01 01 13 01.9	27.34N	55.81E	6	2.9L			¶601668369
ISCJB	I	01 01 13 04.0–.42	27.34N–.03	55.89E–.05	15	2.9L			
CSEM	I	01 01 13 03.7–.21	27.31N	55.85E	2	3.5s,2.9L			
DSN	I	01 01 13 05.3–.12	27.31N	56.14E	16	3.6L,3.5s			
OMAN	I	01 01 13 06.3–99	27.03N	57.09E	12–135	3.6L,3.5s			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=3.9km az=160.5.								
CSEM	Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=74.0.								
DSN	Error ellipse: s-maj=6.2km s-min=3.3km az=252.0.								
OMAN	Error ellipse: s-maj=919.4km s-min=26.5km az=27.0.								
ISC	**I**	**01 10 29 31.1–.65**	**28.21N–.03**	**57.72E–.05**	**30**	**4.0b**	**41**	**1-90**	
IDC	I	01 10 29 26.3–.90	28.18N	57.50E	0	4.1,4.0L			¶17189121
ISCJB	I	01 10 29 30.4–.51	28.20N–.05	57.75E–.07	30	3.9b,4.0L			
CSEM	I	01 10 29 31.5	28.23N	57.64E	16	3.9L,4.0L			
TEH	I	01 10 29 31.5	28.23N	57.64E	16	3.9L,4.0L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=25.7km s-min=19.7km az=55.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=6.8km az=170.1.								
CSEM	Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**I**	**02 15 23 45.7–.63**	**28.19N–.04**	**59.22E–.04**	**10**	**3.9b**	**77**	**2-89**	
ISCJB	I	02 15 23 44.1–.44	28.23N–.04	59.40E–.05	10	4.7s,3.9b			¶15902868
IDC	I	02 15 23 44.2–1.3	28.24N	59.18E	0	4.2,4.2s			
NEIC	I	02 15 23 45.8–.65	28.26N	59.31E	10	4.1L,3.7b			
CSEM	I	02 15 23 46.0–.25	28.29N	59.32E	10	4.3L,3.7b			
THR	I	02 15 23 46.1–.32	28.36N	59.24E	16–5	4.1L,3.7b			
TEH	I	02 15 23 47.4	28.39N	59.25E	4	4.3L,3.7b			
DSN	I	02 15 23 54.1–.13	28.06N	58.67E	15	4.2L,3.5b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.6km s-min=4.4km az=41.4.								
IDC	Error ellipse: s-maj=29.3km s-min=21.8km az=129.0.								
NEIC	Event type se. Error ellipse: s-maj=13.9km s-min=8.2km az=138.0.								
CSEM	Event type ke. Error ellipse: s-maj=8.8km s-min=5.1km az=132.0.								
THR	Error ellipse: s-maj=3.4km s-min=1.2km az=-1.0.								
DSN	Error ellipse: s-maj=8.0km s-min=4.6km az=326.0.								
ISC	**I**	**06 00 45 09.5–1.0**	**27.62N–.04**	**56.76E–.05**	**22–9**		**44**	**0-7**	
DSN	I	06 00 45 07.5–.03	27.72N	56.76E	15	3.6L,2.7b			¶601668386
ISCJB	I	06 00 45 09.2–.69	27.65N–.03	56.80E–.07	30–6	3.6L,2.7b			
TEH	I	06 00 45 09.7	27.62N	56.77E	29	3.1L,2.7b			
CSEM	I	06 00 45 09.4–.39	27.66N	56.77E	24–4	3.1L,2.7b			
ISC	Event type ke.								
DSN	Error ellipse: s-maj=10.7km s-min=3.4km az=283.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.8km s-min=5.6km az=5.3.								
CSEM	Event type ke. Error ellipse: s-maj=9.3km s-min=6.1km az=89.0.								
ISC	**I**	**08 20 42 40.6–.88**	**27.95N–.07**	**52.58E–.05**	**15**	**3.7b**	**36**	**0-89**	
ISCJB	I	08 20 42 38.6–.64	27.87N–.05	52.53E–.07	15	3.7b			¶17189721
IDC	I	08 20 42 38.2–1.4	27.95N	52.47E	0	3.8,3.7			
CSEM	I	08 20 42 40.8–1.3	28.00N	52.60E	5	3.4L,3.7			
TEH	I	08 20 42 43.2	27.97N	52.51E	28	3.4L,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=10.0km s-min=5.8km az=142.9.								
IDC	Error ellipse: s-maj=30.7km s-min=24.4km az=172.0.								
CSEM	Event type ke. Error ellipse: s-maj=29.1km s-min=9.8km az=5.0.								
ISC	**I**	**09 13 13 07.8–.39**	**27.68N–.04**	**54.19E–.04**	**23**	**4.1b**	**181**	**1-92**	
BJI	I	09 13 13 01.1	27.45N	53.24E	34	4.7b,4.5b			¶15910813
IDC	I	09 13 13 04.7–.68	27.78N	54.06E	0	4.0,3.9			
ISCJB	I	09 13 13 06.4–.27	27.70N–.03	54.06E–.03	23	4.1b,3.6s			
THR	I	09 13 13 06.6–.36	27.50N	54.26E	17–3	4.2L,3.6s			
TEH	I	09 13 13 08.8	27.69N	54.25E	17	4.0L,3.6s			
DSN	I	09 13 13 08.4–1.2	27.66N	54.25E	5	4.6L,3.3b			
MOS	I	09 13 13 08.3–1.6	27.78N	54.08E	33	4.3b,3.3b			
NEIC	I	09 13 13 09.2–2.0	27.76N	54.11E	33–15	4.2L,4.2b			
CSEM	I	09 13 13 09.1–.17	27.70N	54.15E	30	4.3b,4.2b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=15.7km s-min=14.2km az=169.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=43.4.								
THR	Error ellipse: s-maj=5.0km s-min=2.1km az=-1.0.								
DSN	Error ellipse: s-maj=20.4km s-min=9.9km az=41.0.								
MOS	Error ellipse: s-maj=11.6km s-min=6.1km az=107.0.								
NEIC	Event type se. Error ellipse: s-maj=6.9km s-min=6.0km az=180.0.								
CSEM	Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=42.0.								
ISC	**I**	**09 20 56 43.5–.99**	**27.59N–.03**	**56.63E–.04**	**12–6**		**56**	**0-7**	
OMAN	I	09 20 56 41.6–.00	27.68N	57.17E	24				¶601668399
ISCJB	I	09 20 56 43.1–.57	27.61N–.03	56.61E–.05	12–4				
TEH	I	09 20 56 43.7	27.60N	56.64E	6	3.1L			
CSEM	I	09 20 56 43.6–.15	27.60N	56.61E	10	3.1L			
DSN	I	09 20 56 45.8–1.2	27.45N	56.78E	15	3.5L,2.8b			
ISC	Event type ke.								
OMAN	Error ellipse: s-maj=63.4km s-min=1.5km az=294.0.								
ISCJB	Event type ke. Error ellipse: s-maj=7.5km s-min=5.2km az=6.5.								
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=93.0.								
DSN	Error ellipse: s-maj=35.8km s-min=10.6km az=107.0.								
ISC	**I**	**10 10 57 56.4–.90**	**29.26N–.03**	**56.78E–.06**	**10**		**40**	**0-5**	
THR	I	10 10 57 55.0–.76	29.28N	56.28E	14–7	3.5L			¶601668410
CSEM	I	10 10 57 56.6–.44	29.29N	56.42E	15	3.3L			
TEH	I	10 10 57 57.4	29.27N	56.65E	14	3.3L			

DSN I 10 10 58 01.2–.76 28.84N 56.98E 10 4.2L,3.2b
ISC Event type ke.
THR Error ellipse: s-maj=3.0km s-min=10.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=26.4km s-min=7.3km az=102.0.
DSN Error ellipse: s-maj=40.3km s-min=6.8km az=105.0.
ISC I 10 15 59 34.7–.71 28.24N–.04 59.09E–.05 10 3.4b 39 2-89
THR I 10 15 59 32.8–.90 28.24N 59.16E 15 3.8L **¶17189867**
IDC I 10 15 59 34.0–1.3 28.14N 58.83E 0 3.9,3.7
ISCJB I 10 15 59 34.1–.58 28.25N–.05 59.28E–.07 10 3.6b,3.7
CSEM I 10 15 59 35.1–.53 28.32N 59.34E 10 4.0L,3.7
TEH I 10 15 59 36.2 28.37N 59.28E 9 4.0L,3.7
ISC Event type ke.
THR Error ellipse: s-maj=5.5km s-min=4.3km az=-1.0.
IDC Error ellipse: s-maj=29.6km s-min=24.5km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=7.3km az=7.1.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=13.2km az=115.0.
ISC I 11 08 09 04.2–1.1 27.58N–.04 56.66E–.04 9–9 39 0-7
ISCJB I 11 08 09 03.7–.65 27.59N–.04 56.62E–.06 10–6 **¶601668415**
CSEM I 11 08 09 03.6–.18 27.60N 56.63E 2 3.0L
DSN I 11 08 09 04.5–1.1 27.59N 56.59E 10 3.7L,3.2b
TEH I 11 08 09 05.0 27.61N 56.61E 6 3.0L,3.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=7.3km az=16.4.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=108.0.
DSN Error ellipse: s-maj=48.2km s-min=9.6km az=105.0.
ISC I 11 20 05 12.9–.83 28.34N–.05 59.15E–.03 10 3.6b,2.9s 55 2-87
ISCJB I 11 20 05 12.5–.63 28.32N–.06 59.28E–.05 10 3.5b,3.1s **¶17189944**
CSEM I 11 20 05 12.6–.41 28.29N 59.27E 2 3.8L,3.1s
IDC I 11 20 05 12.0–2.2 28.45N 58.78E 0 3.7,3.6b
THR I 11 20 05 12.1–.75 28.24N 59.16E 14–12 3.8L,3.6b
TEH I 11 20 05 13.6 28.25N 59.24E 4 3.8L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.1km az=144.3.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=7.1km az=134.0.
IDC Error ellipse: s-maj=54.1km s-min=26.5km az=151.0.
THR Error ellipse: s-maj=5.4km s-min=2.8km az=-1.0.
ISC I 12 11 16 49.1–1.6 28.50N–.06 59.17E–.05 10 33 2-5
CSEM I 12 11 16 47.4–.38 28.36N 59.30E 10 3.7L **¶601902525**
ISCJB I 12 11 16 49.0–.93 28.60N–.07 59.20E–.06 10 3.7L
TEH I 12 11 16 51.3 28.45N 59.19E 28 3.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=8.0km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.8km az=145.5.
ISC I 13 17 54 46.7–.77 29.21N–.05 51.38E–.05 20 3.9b 39 0-49
ISCJB I 13 17 54 45.8–.47 29.27N–.04 51.29E–.05 20 3.8b **¶17190075**
TEH I 13 17 54 45.6 29.26N 51.37E 4 3.3L
CSEM I 13 17 54 45.4–.27 29.28N 51.41E 2 3.3L
IDC I 13 17 54 47.0–4.8 29.16N 50.89E 0 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.3km az=2.9.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=5.4km az=96.0.
IDC Error ellipse: s-maj=87.8km s-min=42.5km az=125.0.
ISC I 14 21 54 07.7–.68 26.70N–.04 55.46E–.05 10 3.8b 42 1-99
IDC I 14 21 54 05.6–1.4 26.68N 55.35E 0 4.5s,4.4 **¶17190217**
DSN I 14 21 54 06.2–1.2 26.96N 55.55E 10 3.5L,3.0b
ISCJB I 14 21 54 07.9–.44 26.74N–.03 55.33E–.04 10 4.5s,3.7b
CSEM I 14 21 54 09.6–.19 26.71N 55.43E 10 3.2L,3.7b
TEH I 14 21 54 11.0 26.66N 55.50E 22 3.2L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=35.1km s-min=22.9km az=49.0.
DSN Error ellipse: s-maj=18.3km s-min=4.3km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.2km az=149.5.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=78.0.
TEH I 16 05 09 51.9 28.23N 59.20E 21 3.5L
CSEM I 16 05 09 49.7–.37 28.28N 59.22E 2 3.3L **¶601902624**
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=8.2km az=139.0.
ISC I 16 23 38 30.3–.58 28.33N–.05 53.99E–.04 24 3.6b 84 1-91
IDC I 16 23 38 26.0–.92 28.25N 53.97E 0 3.9,3.7 **¶17190354**
THR I 16 23 38 28.0–1.1 28.24N 54.09E 16–10 3.5L,3.7
TEH I 16 23 38 29.9 28.29N 54.01E 9 3.5L,3.7
ISCJB I 16 23 38 29.2–.32 28.32N–.03 53.95E–.05 24 3.6b,3.7
OMAN I 16 23 38 29.9–.05 28.51N 54.05E 116–11 3.6b,3.7
CSEM I 16 23 38 29.9–.13 28.34N 54.00E 10 3.5L,3.7
DSN I 16 23 38 29.9–1.2 28.53N 54.50E 10 4.2L,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=16.5km az=21.0.
THR Error ellipse: s-maj=7.2km s-min=4.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.4km az=154.5.
OMAN Error ellipse: s-maj=18.5km s-min=4.7km az=252.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.8km az=67.0.
DSN Error ellipse: s-maj=25.8km s-min=6.6km az=46.0.
ISC I 18 06 57 26.1–.50 27.86N–.03 56.50E–.05 10 3.8b 112 0-90
IDC I 18 06 57 23.7–1.1 27.80N 56.49E 0 3.9,3.9 **¶601846536**
ISCJB I 18 06 57 25.3–.28 27.93N–.02 56.53E–.04 10 3.8b,3.6s
DSN I 18 06 57 26.5–1.4 27.77N 57.13E 10 4.2L,3.8s
THR I 18 06 57 27.8–.57 27.87N 56.58E 27–4 3.9L,3.8s
OMAN I 18 06 57 28.8–2.8 27.81N 56.41E 138 3.9L,3.8s
CSEM I 18 06 57 28.9–.15 27.84N 56.54E 20–0 3.8L,3.8s
TEH I 18 06 57 29.2 27.86N 56.56E 15 3.8L,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=14.6km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=172.9.
DSN Error ellipse: s-maj=36.6km s-min=10.7km az=125.0.
THR Error ellipse: s-maj=1.9km s-min=3.4km az=-1.0.
OMAN Error ellipse: s-maj=34.3km s-min=26.6km az=134.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.0km az=81.0.
ISC I 18 11 26 02.3–.33 28.20N–.03 56.37E–.04 28 4.6b,4.1s 241 1-91
DSN I 18 11 25 57.1–.78 28.55N 56.81E 15 5.4L,4.3b **¶15934903**
IDC I 18 11 25 58.0–.55 28.15N 56.33E 0 4.4,4.3
NEIC I 18 11 25 59.7–.33 28.20N 56.28E 10 4.7,4.7b
BJI I 18 11 25 59.0 28.27N 55.75E 40 5.1b,4.8s
THR I 18 11 26 01.3–.99 28.20N 56.42E 35–7 4.6L,4.8s
ISCJB I 18 11 26 01.2–.18 28.27N–.02 56.35E–.03 28 4.5b,4.3s
CSEM I 18 11 26 03.0–.13 28.22N 56.36E 30 4.7b,4.3s
OMAN I 18 11 26 04.6–99 28.20N 55.79E 52 4.7b,4.3s
TEH I 18 11 26 05.1 28.20N 56.26E 24 4.6L,4.3s
ISC Event type fe.
DSN Error ellipse: s-maj=42.1km s-min=7.0km az=104.0.
IDC Error ellipse: s-maj=13.2km s-min=11.0km az=6.0.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=5.9km az=174.0. Felt at Bandar 'Abbas. Also felt at Doha, Qatar, at Damman, Saudi Arabia and at Al 'Ayn and Dubai, United Arab Emirates.
THR Error ellipse: s-maj=3.2km s-min=6.8km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.9km s-min=3.0km az=150.8.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=75.0.
OMAN Error ellipse: s-maj=66.3km s-min=3.5km az=285.0.
ISC I 18 11 34 10.3–.53 28.22N–.03 56.45E–.05 28 4.0b 87 1-89
DSN I 18 11 34 04.5–.74 28.63N 56.86E 15 4.6L,3.7b **¶15942526**
IDC I 18 11 34 05.7–1.0 28.14N 56.35E 0 4.0,4.0
ISCJB I 18 11 34 09.8–.28 28.26N–.02 56.52E–.05 28 3.9b,4.0
NEIC I 18 11 34 09.0 28.21N 56.38E 22 4.5b,4.0
THR I 18 11 34 09.8–.39 28.23N 56.48E 31–3 4.0L,4.0
OMAN I 18 11 34 10.1–3.9 28.42N 56.08E 52 4.0L,4.0
TEH I 18 11 34 11.8 28.15N 56.41E 24 3.9L,4.0
CSEM I 18 11 34 11.1–.21 28.23N 56.47E 25 3.9L,4.0
ISC Event type ke.
DSN Error ellipse: s-maj=36.7km s-min=6.9km az=104.0.
IDC Error ellipse: s-maj=21.1km s-min=18.2km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.3km az=171.0.
NEIC Event type se. After TEH.
THR Error ellipse: s-maj=1.7km s-min=3.0km az=-1.0.
OMAN Error ellipse: s-maj=260.5km s-min=32.6km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=83.0.
ISC I 18 17 12 22.6–.75 28.21N–.03 56.51E–.06 28 3.3b 38 1-53
IDC I 18 17 12 17.6–1.4 28.15N 56.25E 0 3.5,3.5 **¶17190493**
ISCJB I 18 17 12 22.6–.43 28.18N–.03 56.49E–.07 28 3.3b,3.5
TEH I 18 17 12 22.8 28.27N 56.45E 4 3.1L,3.5
CSEM I 18 17 12 22.0–.32 28.24N 56.45E 10 3.1L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=33.7km s-min=24.5km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.6km az=176.6.
CSEM Event type ke. Error ellipse: s-maj=12.9km s-min=6.2km az=90.0.
ISC I 20 03 33 27.8–.71 27.86N–.07 54.26E–.04 17 3.6b 46 1-90
IDC I 20 03 33 25.2–1.3 27.99N 54.26E 0 3.7,3.6b **¶17190600**
ISCJB I 20 03 33 26.0–.67 27.83N–.07 54.16E–.06 17 3.7s,3.6b
CSEM I 20 03 33 28.7–.52 27.89N 54.26E 19–0 3.4L,3.6b
TEH I 20 03 33 30.2 27.85N 54.23E 33 3.4L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=28.3km s-min=22.2km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.0km az=31.2.
CSEM Event type ke. Error ellipse: s-maj=14.1km s-min=4.9km az=11.0.
ISC I 20 06 20 17.9–1.4 28.39N–.07 59.15E–.05 10 34 2-7
THR I 20 06 20 16.9–.40 28.32N 59.23E 18–6 3.6L **¶601902826**
CSEM I 20 06 20 17.3–.61 28.37N 59.24E 2 3.9L
TEH I 20 06 20 18.5 28.32N 59.24E 10 3.9L
ISC Event type ke.
THR Error ellipse: s-maj=4.2km s-min=1.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=7.0km az=151.0.
ISC I 20 11 59 42.9–.53 29.38N–.04 52.11E–.04 25 3.9b 78 0-88
BJI I 20 11 59 39.0 29.30N 52.10E 5 4.1b **¶15972518**
ISCJB I 20 11 59 41.4–.39 29.30N–.04 52.05E–.04 25 3.8b,3.0s
THR I 20 11 59 41.7–.33 29.46N 52.11E 15–14 4.0L,3.0s
CSEM I 20 11 59 42.4–.19 29.35N 52.12E 10 3.8L,3.0s
TEH I 20 11 59 43.3 29.40N 52.08E 8 3.8L,3.0s
IDC I 20 11 59 43.8–2.8 29.31N 52.08E 37–22 3.8,3.8
DSN I 20 11 59 48.8–1.3 28.95N 52.39E 15 4.7L,3.5b
ISN I 20 11 59 52.0–1.8 29.85N 51.19E 0–5 4.0L,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=33.3.
THR Error ellipse: s-maj=6.3km s-min=3.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=33.0.
IDC Error ellipse: s-maj=21.9km s-min=15.0km az=8.0.
DSN Error ellipse: s-maj=30.5km s-min=6.3km az=27.0.
ISN Error ellipse: s-maj=13.3km s-min=11.7km az=-1.0.
ISC I 22 21 07 00.5–.67 28.15N–.04 56.39E–.05 28 3.6b 61 1-60
IDC I 22 21 06 56.0–1.1 28.13N 56.39E 0 3.7,3.7 **¶17190765**
TEH I 22 21 06 58.1 28.25N 56.37E 10 3.4L,3.7
THR I 22 21 06 59.7–.30 28.28N 56.32E 15 3.5L,3.7
ISCJB I 22 21 07 00.3–.35 28.17N–.03 56.38E–.05 28 3.7b,3.7
CSEM I 22 21 07 01.5–.24 28.16N 56.39E 20 3.4L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=17.6km az=159.0.
THR Error ellipse: s-maj=1.4km s-min=3.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=169.5.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.5km az=83.0.
ISC I 24 17 25 06.2–.98 28.68N–.08 51.41E–.06 24 3.6b 25 0-95
IDC I 24 17 25 02.5–1.6 28.49N 51.64E 0 3.8,3.7b **¶17190906**
TEH I 24 17 25 03.3 28.52N 51.34E 11 3.1L,3.7b
ISCJB I 24 17 25 05.2–.90 28.70N–.08 51.38E–.07 24 3.6b,3.7b
CSEM I 24 17 25 05.1–.50 28.76N 51.55E 2 3.1L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=73.2km s-min=44.2km az=179.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=6.8km az=31.6.
CSEM Event type ke. Error ellipse: s-maj=13.9km s-min=6.2km az=21.0.
ISC I 25 13 59 24.9–.56 26.89N–.02 55.96E–.05 14 3.5b 80 1-87
IDC I 25 13 59 22.7–1.1 26.86N 55.86E 0 3.8,3.7L **¶17190965**
ISCJB I 25 13 59 24.4–.31 26.90N–.02 55.90E–.04 14 3.6b,3.7L
OMAN I 25 13 59 26.8–99 26.76N 56.06E 4–59 3.6b,3.7L
DSN I 25 13 59 26.4–8.2 26.87N 56.13E 15 3.9L,3.6s
CSEM I 25 13 59 26.0–.25 26.85N 55.93E 10 3.6L,3.6s
TEH I 25 13 59 26.5 26.83N 55.89E 5 3.8L,3.6s
THR I 25 13 59 28.9–.43 27.36N 55.82E 14–7 3.6L,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=18.1km az=3.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.5km az=174.3.
OMAN Error ellipse: s-maj=110.2km s-min=17.2km az=0.0.
DSN Error ellipse: s-maj=6.6km s-min=2.6km az=241.0.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=5.2km az=89.0.
THR Error ellipse: s-maj=2.4km s-min=4.4km az=-1.0.
ISC I 27 07 02 05.1–.60 28.17N–.03 58.94E–.03 22–5 4.9b,4.0s 558 2-120
BJI I 27 07 01 56.4 28.24N 58.18E 5 5.0b,4.9b **¶15970236**
IDC I 27 07 02 01.6–.38 28.20N 58.96E 0 4.7,4.7
ISCJB I 27 07 02 02.3–.12 28.18N–.02 58.89E–.02 14 4.8b,4.1s
NEIC I 27 07 02 03.4–.30 28.17N 58.91E 10 5.1,5.0b
GCMT I 27 07 02 03.4–.30 28.01N 58.88E 20–1 4.9W,5.0b
THR I 27 07 02 03.4–.73 28.15N 59.10E 14–14 4.9L,5.0b
MOS I 27 07 02 04.2–1.2 28.08N 58.93E 33 5.1b,4.0s
OMAN I 27 07 02 06.8–3.1 28.08N 59.16E 34–27 5.1b,4.0s
CSEM I 27 07 02 06.2–.17 28.15N 59.01E 30 4.9b,4.4s
TEH I 27 07 02 08.4 28.24N 58.95E 22 4.9L,4.4s
DSN I 27 07 02 08.1–1.6 28.07N 58.99E 30 5.4L,4.5b
ISC Event type ke.
IDC Error ellipse: s-maj=9.9km s-min=7.7km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=160.1.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.7km az=154.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c40; s68,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.30±.18 $M_{\theta\theta}$3.18±.12; $M_{\phi\phi}$-1.88±.12; $M_{r\theta}$-0.13±.20; $M_{\theta\phi}$0.53±.10; $M_{\phi r}$1.35±.35; Best double couple: NP1:ϕ_e226.00000°,δ64.00000° ,λ-151.00000°. NP2:ϕ_s122.00000°,δ64.00000°,λ-29.00000°. Principal axes: T 3.2340,Plg0.0000°,Azm354.0000°; N -0.2250,Plg52.0000°,Azm264.0000° ; P -3.0100,Plg38.0000°,Azm84.0000° $M_0$3.12200×10^{16}
THR Error ellipse: s-maj=4.7km s-min=5.8km az=-1.0.
MOS Error ellipse: s-maj=6.1km s-min=3.8km az=105.9.
OMAN Error ellipse: s-maj=10.7km s-min=7.7km az=109.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=111.0.
DSN Error ellipse: s-maj=2.9km s-min=0.9km az=299.0.
ISC I 27 07 18 15.3–.70 28.17N–.04 59.16E–.05 10 3.6b 51 2-89
ISCJB I 27 07 18 14.2–.47 28.17N–.04 59.15E–.05 10 3.6b **¶16135914**
THR I 27 07 18 14.0–1.6 28.15N 59.11E 15 3.8L
CSEM I 27 07 18 15.2–.27 28.19N 59.14E 10 4.1L
NEIC I 27 07 18 16.1 28.25N 59.03E 5 4.0
TEH I 27 07 18 17.4 28.18N 59.13E 25 4.1L
IDC I 27 07 18 20.0–2.8 27.98N 58.87E 56–31 3.8L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.2km az=137.9.
THR Error ellipse: s-maj=8.7km s-min=6.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=5.8km az=115.0.
NEIC Event type se. After TEH.
IDC Error ellipse: s-maj=23.1km s-min=16.2km az=97.0.
TEH I 27 07 44 27.7 28.26N 59.00E 7 4.0L
CSEM I 27 07 44 28.1–.22 28.39N 59.01E 2 4.0L **¶601903090**
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.6km az=33.0.
ISC I 27 08 38 30.0–.28 28.15N–.02 59.05E–.02 19–1 6.2s,5.7b 2038 2-166
BJI I 27 08 38 23.8 28.34N 58.57E 10 6.5s,6.3 **¶601990163**
IDC I 27 08 38 26.7–.28 28.17N 59.07E 0 6.1,6.1s
OMAN I 27 08 38 27.9–2.2 28.11N 59.16E 3–15 6.1,6.1s
GCMT I 27 08 38 28.7–.10 28.02N 59.02E 14–0 6.2W,6.1s
ISCJB I 27 08 38 28.2–.37 28.15N–.01 58.99E–.01 21–2 6.2s,5.6b
CSEM I 27 08 38 28.7–.06 28.18N 59.03E 12 6.2W,6.1s
NEIC I 27 08 38 28.3–.13 28.20N 59.02E 10 6.2W,6.2s
THR I 27 08 38 28.5–.95 28.15N 59.09E 15 5.8L,6.2s

MOS I 27 08 38 29.2–.96 28.10N 59.04E 33 6.1s,5.8b
SFS I 27 08 38 29.0 28.20N 59.00E 15 5.9L,5.8b
NEIC I 27 08 38 29.0–.00 28.19N 58.97E 15 5.9L,5.8b
TEH I 27 08 38 32.8 28.29N 58.95E 10 6.0L,5.8b
ISC Event type ke.
IDC Error ellipse: s-maj=8.0km s-min=7.4km az=164.0.
OMAN Error ellipse: s-maj=10.1km s-min=4.5km az=110.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s127,c276; s138,c472;Duration: 3$1 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.20±.01 $M_{\theta\theta}$2.42±.02; $M_{\phi\phi}$-2.22±.02; $M_{r\theta}$0.20±.03; $M_{\theta\phi}$0.41±.01; $M_{\phi r}$0.50±.04; Best double couple: NP1:ϕ_S221.00000°,δ85.00000°,λ-167.00000°. NP2:ϕ_S129.00000°,δ77.00000°,λ-5.00000°. Principal axes: T 2.4790,Plg5.0000°,Azm354.0000° ; N -0.1140,Plg76.0000°,Azm242.0000°; P -2.3620,Plg12.0000°,Azm86.0000° $M_0$2.42100×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=19.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=18.0.
NEIC Event type fe. Error ellipse: s-maj=4.0km s-min=2.6km az=13.0. Felt at Bam. Also felt at Al Fujayrah, United Arab Emirates. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s65 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.14 $M_{\theta\theta}$1.51 $M_{\phi\phi}$-1.36 $M_{r\theta}$0.11 $M_{\theta\phi}$0.47 $M_{\phi r}$0.02 Best double couple: NP1:ϕ_S36.00000°,δ87.00000°,λ178.00000°. NP2:ϕ_S126.00000°,δ88.00000°,λ3.00000°. Principal axes: T 1.5900,Plg4.0000°,Azm351.0000°; N -0.1500,Plg86.0000°,Azm169.0000° ; P -1.4400,Plg0.0000°,Azm261.0000° $M_0$1.50000×10^{18}
THR Error ellipse: s-maj=5.2km s-min=3.8km az=-1.0.
MOS Error ellipse: s-maj=4.7km s-min=3.0km az=116.2.
SFS Event type ke.
NEIC Event type se. Moment Tensor Solution. s38 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.54 $M_{\theta\theta}$2.51 $M_{\phi\phi}$-1.97 $M_{r\theta}$-0.71 $M_{\theta\phi}$0.24 $M_{\phi r}$-0.15 Best double couple: NP1:ϕ_S221.00000° ,δ84.00000°,λ167.00000°. NP2:ϕ_S312.00000°,δ77.00000°,λ5.00000°. Principal axes: T 2.6800,Plg13.0000°,Azm177.0000°; N -0.6900,Plg76.0000°,Azm19.0000° ; P -1.9900,Plg5.0000°,Azm268.0000° $M_0$2.30000×10^{18}

ISC I 27 08 43 26.6–.34 28.12N–.04 59.08E–.04 10 4.8b 160 2-117
ISCJB I 27 08 43 25.2–.22 28.09N–.02 59.08E–.05 10 4.7b **¶15995005**
IDC I 27 08 43 25.0–.45 28.14N 59.02E 0 4.8,4.8
NEIC I 27 08 43 26.7–.32 28.13N 59.06E 10 5.0b,4.8
CSEM I 27 08 43 26.9–.16 28.12N 59.12E 10 5.9s,4.7b
MOS I 27 08 43 27.6–1.2 27.94N 58.92E 33 4.9b,4.7b
THR I 27 08 43 27.5–.40 28.10N 59.17E 15 5.3L,4.7b
OMAN I 27 08 43 28.6–.18 28.10N 59.32E 71–25 5.3L,4.7b
DSN I 27 08 43 28.5–2.9 27.91N 59.42E 17 7.2L,5.9s
TEH I 27 08 43 31.0 28.35N 59.05E 5 4.8L,5.9s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=2.8km az=8.8.
IDC Error ellipse: s-maj=11.8km s-min=10.8km az=109.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=7.2km az=94.0.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=98.0.
MOS Error ellipse: s-maj=14.7km s-min=9.8km az=106.5.
THR Error ellipse: s-maj=2.4km s-min=1.8km az=-1.0.
OMAN Error ellipse: s-maj=11.6km s-min=6.2km az=273.0.
DSN Error ellipse: s-maj=3.9km s-min=1.4km az=276.0.

IDC I 27 08 51 09.2–1.4 28.01N 58.90E 0 3.9L,3.7 ¶17191089

IDC Error ellipse: s-maj=44.6km s-min=27.6km az=113.0.

ISC I 27 08 57 54.6–.77 28.00N–.04 59.39E–.08 10 3.5b 40 2-90
IDC I 27 08 57 52.7–1.2 28.13N 58.86E 0 4.2L,3.6 **¶15972646**
ISCJB I 27 08 57 53.6–.50 28.01N–.04 59.28E–.07 10 3.3b,3.6
OMAN I 27 08 57 54.9–99 28.11N 59.45E 33–6 3.3b,3.6
THR I 27 08 57 54.4–1.7 28.11N 59.21E 15 4.1L,3.6
CSEM I 27 08 57 56.2–.39 28.05N 59.23E 20 4.1L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=22.0km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.6km az=16.8.
OMAN Error ellipse: s-maj=49.8km s-min=5.7km az=30.0.
THR Error ellipse: s-maj=9.4km s-min=7.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=8.4km az=101.0.

ISC I 27 09 05 20.3–.72 28.16N–.06 58.95E–.09 10 3.8b 21 2-90
ISCJB I 27 09 05 18.6–.53 28.13N–.05 58.9E–.10 10 3.6b **¶15972648**
IDC I 27 09 05 18.7–1.1 28.12N 58.93E 0 3.9,3.8
CSEM I 27 09 05 21.3 28.18N 59.18E 15 4.2L,3.8
THR I 27 09 05 21.4–1.2 28.20N 59.17E 15 4.2L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=7.1km az=13.4.
IDC Error ellipse: s-maj=28.5km s-min=18.5km az=130.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THR Error ellipse: s-maj=14.9km s-min=4.2km az=-1.0.

ISC I 27 09 07 25.1–.64 28.20N–.06 59.07E–.08 10 3.8b 39 2-89
CSEM I 27 09 07 12.7–26 28.95N 59.84E 10 3.5b **¶16396949**
ISCJB I 27 09 07 23.8–.44 28.19N–.04 59.08E–.08 10 3.8b
IDC I 27 09 07 24.1–.89 28.22N 58.89E 0 4.1L,4.0
OMAN I 27 09 07 25.9–14 28.13N 59.31E 22 4.1L,4.0
DSN I 27 09 07 30.2–99 28.27N 58.65E 17 5.3L,3.5b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=660.9km s-min=61.2km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.4km az=13.1.
IDC Error ellipse: s-maj=21.3km s-min=14.8km az=126.0.
OMAN Error ellipse: s-maj=168.4km s-min=24.4km az=29.0.
DSN Error ellipse: s-maj=305.2km s-min=8.8km az=38.0.

ISC I 27 09 07 52.4–.41 28.26N–.04 58.99E–.03 10 4.3b 95 2-89
ISCJB I 27 09 07 50.7–.28 28.19N–.04 58.94E–.03 10 4.2b **¶17191090**
IDC I 27 09 07 50.8–.67 28.22N 58.92E 0 4.4L,4.3
BJI I 27 09 07 52.0 28.40N 59.10E 5 4.5b,4.3
CSEM I 27 09 07 52.2–.22 28.22N 58.99E 10 4.2b,4.3
THR I 27 09 07 53.3–1.1 28.07N 59.20E 15 5.0L,4.3
TEH I 27 09 07 54.8 28.24N 58.96E 23 4.8L,4.3
NEIC I 27 09 07 54.8 28.23N 58.96E 22 4.8,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=164.8.
IDC Error ellipse: s-maj=16.4km s-min=12.4km az=142.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=7.0km az=126.0.
THR Error ellipse: s-maj=7.0km s-min=4.8km az=-1.0.
NEIC Event type se. After TEH.

THR I 27 09 15 29.9–1.1 28.59N 59.01E 15 3.5L
CSEM I 27 09 15 29.9 28.59N 59.01E 15 3.5L **¶601903084**
THR Error ellipse: s-maj=6.9km s-min=4.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC I 27 09 20 30.2–.70 28.09N–.05 58.99E–.06 10 3.6b 19 2-90
IDC I 27 09 20 28.7–.95 28.03N 58.97E 0 4.0L,3.8 **¶17191092**
ISCJB I 27 09 20 29.2–.56 27.96N–.05 59.1E–.10 10 3.5b,3.8
CSEM I 27 09 20 32.1 28.27N 59.15E 15 4.0L,3.8
THR I 27 09 20 32.1–1.4 28.27N 59.15E 15 4.0L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=20.5km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=7.7km az=8.5.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THR Error ellipse: s-maj=8.7km s-min=6.4km az=-1.0.

ISC I 27 09 22 13.1–.86 28.05N–.09 59.1E–.20 10 3.6b 9 5-90
ISCJB I 27 09 22 11.2–.76 28.06N–.07 59.0E–.20 10 4.6s,3.5b **¶17191093**
IDC I 27 09 22 11.2–1.2 28.04N 59.04E 0 4.7s,4.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.4km s-min=8.6km az=13.0.
IDC Error ellipse: s-maj=41.0km s-min=21.3km az=124.0.

TEH I 27 10 02 10.9 28.49N 59.00E 25 3.6L
CSEM I 27 10 02 07.1–.30 28.45N 59.07E 2 3.6L **¶601903080**
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=141.0.

ISC I 27 10 20 15.8–.78 28.15N–.05 58.95E–.05 10 3.2b 34 2-90
IDC I 27 10 20 14.9–1.5 28.01N 58.83E 0 3.5L,3.3 **¶17191096**
TEH I 27 10 20 17.1 28.22N 58.99E 5 3.8L,3.3
THR I 27 10 20 19.4–1.1 28.53N 59.08E 14 3.7L,3.3
CSEM I 27 10 20 20.7–.36 28.53N 59.01E 10 3.8L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=48.7km s-min=26.9km az=108.0.
THR Error ellipse: s-maj=6.2km s-min=4.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=7.5km az=31.0.

TEH I 27 10 44 20.7 28.29N 59.05E 5 3.6L
CSEM I 27 10 44 20.4–.42 28.26N 59.19E 10 3.6L **¶601903073**
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=10.0km az=122.0.

ISC I 27 11 06 04.3–1.2 28.20N–.05 59.14E–.05 10 3.1b 34 2-55
IDC I 27 11 05 57.7–6.8 26.82N 59.14E 0 3.2,3.2 **¶17191100**
THR I 27 11 06 01.7–1.5 28.14N 59.15E 15 3.6L,3.2
CSEM I 27 11 06 04.3–.35 28.21N 59.15E 20–0 3.6L,3.2
TEH I 27 11 06 06.4 28.35N 58.96E 16 3.6L,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=314.7km s-min=31.5km az=153.0.
THR Error ellipse: s-maj=8.1km s-min=6.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=7.7km az=125.0.

ISC I 27 11 07 29.2–1.2 28.2N–.30 58.9E–.20 10 3.6b 7 26-89
ISCJB I 27 11 07 27.6–1.0 28.2N–.20 58.9E–.20 10 3.4b **¶17191101**
IDC I 27 11 07 27.6–1.3 28.19N 58.93E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.7km s-min=23.5km az=143.3.
IDC Error ellipse: s-maj=42.5km s-min=30.4km az=145.0.

TEH I 27 11 56 42.0 28.41N 58.89E 21 3.6L
CSEM I 27 11 56 39.5–.48 28.24N 59.16E 20–0 3.6L **¶601903057**
CSEM Event type ke. Error ellipse: s-maj=13.8km s-min=11.0km az=126.0.

TEH I 27 12 13 08.6 28.14N 58.94E 7 3.9L
CSEM I 27 12 13 08.6 28.14N 58.94E 7 3.9L **¶601903050**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC I 27 12 32 58.4–.98 28.32N–.07 59.08E–.05 10 3.4b 32 2-89
IDC I 27 12 32 55.1–1.3 27.93N 58.99E 0 3.6,3.5 **¶17191107**
THR I 27 12 32 57.5–.75 28.25N 59.15E 15 3.5L,3.5
ISCJB I 27 12 32 58.8–.95 28.40N–.09 59.07E–.06 10 3.5b,3.5
CSEM I 27 12 32 58.6–.72 28.34N 59.10E 2 3.9L,3.5
TEH I 27 12 32 59.3 28.31N 59.06E 5 3.9L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=43.4km s-min=26.1km az=169.0.
THR Error ellipse: s-maj=9.2km s-min=2.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.8km az=0.1.
CSEM Event type ke. Error ellipse: s-maj=18.6km s-min=10.1km az=158.0.

TEH I 27 13 07 37.9 28.27N 58.98E 5 3.5L
CSEM I 27 13 07 37.8–.45 28.37N 59.01E 2 3.5L **¶601903032**
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=6.6km az=165.0.

TEH I 27 14 26 15.0 28.23N 59.04E 5 3.5L
CSEM I 27 14 26 15.4–.41 28.36N 59.07E 2 3.5L **¶601903025**
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.8km az=176.0.

ISC I 27 15 01 43.2–.35 28.10N–.03 59.02E–.03 10 4.3b,3.5s 234 2-90
DSN I 27 15 01 37.4–99 28.35N 59.68E 17 5.0L,4.1b **¶15973862**
BJI I 27 15 01 40.9 28.00N 58.91E 17 4.7b,4.5b
ISCJB I 27 15 01 42.0–.19 28.12N–.02 59.05E–.03 10 4.2b,3.5s
THR I 27 15 01 43.8–1.1 28.18N 59.09E 15 4.6L,3.5s
CSEM I 27 15 01 43.7–.13 28.13N 59.12E 10 4.2b,3.5s
NEIC I 27 15 01 43.2–.41 28.12N 59.00E 10 4.6,4.3b
MOS I 27 15 01 44.9–1.1 28.08N 59.12E 33 4.4b,4.3b
OMAN I 27 15 01 46.6–49 28.00N 59.06E 24–35 4.4b,4.3b
IDC I 27 15 01 46.8–4.3 28.19N 58.99E 33–33 4.2,4.1
TEH I 27 15 01 46.7 28.34N 58.97E 4 4.6L,4.1
ISC Event type ke.
DSN Error ellipse: s-maj=582.9km s-min=13.5km az=226.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=19.3.
THR Error ellipse: s-maj=6.2km s-min=4.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=114.0.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.4km az=142.0.
MOS Error ellipse: s-maj=8.7km s-min=5.5km az=80.2.
OMAN Error ellipse: s-maj=14.5km s-min=2.0km az=263.0.
IDC Error ellipse: s-maj=15.1km s-min=11.1km az=135.0.

ISC I 27 15 38 46.3–.84 28.33N–.06 58.97E–.05 10 3.5b 39 2-89
IDC I 27 15 38 44.0–1.1 28.09N 58.97E 0 3.6,3.6 **¶16012673**
ISCJB I 27 15 38 44.2–.48 28.13N–.04 59.04E–.08 10 3.5b,3.6
THR I 27 15 38 45.0–1.1 28.19N 59.10E 15 3.9L,3.6
CSEM I 27 15 38 47.4–.26 28.42N 58.97E 2 4.0L,3.6
TEH I 27 15 38 52.4 28.46N 58.86E 36 4.0L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=32.0km s-min=19.4km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.9km az=3.2.
THR Error ellipse: s-maj=6.8km s-min=4.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=131.0.

TEH I 27 16 32 01.2 28.51N 58.89E 27 3.5L
CSEM I 27 16 31 56.8–.47 28.24N 59.27E 20 3.5L **¶601903020**
CSEM Event type ke. Error ellipse: s-maj=13.7km s-min=10.3km az=124.0.

TEH I 27 18 17 12.7 28.31N 58.97E 5 3.5L
CSEM I 27 18 17 11.9–.31 28.35N 58.97E 2 3.5L **¶601903009**
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.8km az=140.0.

ISC I 27 19 12 34.5–1.5 28.24N–.08 59.15E–.05 10 31 2-5
ISCJB I 27 19 12 33.6–1.3 28.3N–.10 59.19E–.08 10 **¶601903008**
THR I 27 19 12 33.4–.32 28.29N 59.09E 18–5 3.5L
CSEM I 27 19 12 36.1–.79 28.27N 59.10E 20 3.6L
TEH I 27 19 12 37.7 28.38N 58.97E 18 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.6km s-min=6.7km az=149.3.
THR Error ellipse: s-maj=3.6km s-min=1.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=22.6km s-min=10.4km az=145.0.

ISC I 27 21 49 41.6–.49 28.17N–.04 59.17E–.04 10 4.0b 108 2-90
OMAN I 27 21 49 40.5–4.1 28.20N 59.49E 20 4.0b **¶16012672**
IDC I 27 21 49 40.2–.91 28.16N 59.09E 0 4.0,4.0
ISCJB I 27 21 49 40.7–.28 28.17N–.03 59.12E–.04 10 3.9b,3.2s
THR I 27 21 49 43.0–.40 28.33N 59.07E 15 3.9L,3.2s
CSEM I 27 21 49 43.3–.17 28.17N 59.15E 20–0 4.2L,3.2s
DSN I 27 21 49 45.0–.11 28.51N 58.40E 17 4.3L,3.3b
NEIC I 27 21 49 45.8 28.41N 58.96E 7 4.2,4.0b
TEH I 27 21 49 47.4 28.43N 58.96E 19 4.2L,4.0b
ISC Event type ke.
OMAN Error ellipse: s-maj=49.3km s-min=21.3km az=166.0.
IDC Error ellipse: s-maj=19.8km s-min=15.3km az=152.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=37.1.
THR Error ellipse: s-maj=4.6km s-min=1.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.1km az=114.0.
DSN Error ellipse: s-maj=15.1km s-min=4.7km az=311.0.
NEIC Event type se. After TEH.

TEH I 27 22 23 11.1 28.31N 59.11E 18 3.6L
CSEM I 27 22 23 09.5–.37 28.38N 59.03E 2 3.6L **¶601903002**
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=152.0.

TEH I 27 22 52 43.8 28.36N 59.01E 13 3.7L
CSEM I 27 22 52 40.8–.60 28.32N 59.07E 2 3.7L **¶601902999**
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=9.8km az=154.0.

ISC I 27 23 12 51.2–.62 28.04N–.04 59.13E–.05 10 3.6b,3.0s 83 2-90
DSN I 27 23 12 48.1–1.3 28.82N 58.90E 16 4.4L,3.5b **¶16012671**
ISCJB I 27 23 12 50.2–.40 28.04N–.03 59.26E–.06 10 3.6b,3.1s
THR I 27 23 12 52.8–.36 28.24N 59.15E 15 3.9L,3.1s
CSEM I 27 23 12 53.2–.46 28.06N 59.25E 20–0 4.1L,3.1s
IDC I 27 23 12 54.8–5.4 28.08N 59.06E 33–43 3.7,3.7
TEH I 27 23 12 56.4 28.32N 59.04E 14 4.1L,3.7
OMAN I 27 23 13 28.8 26.21N 57.13E 2 4.1L,3.7
ISC Event type ke.
DSN Error ellipse: s-maj=75.0km s-min=9.7km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.4km az=22.7.
THR Error ellipse: s-maj=4.3km s-min=1.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=14.8km s-min=6.7km az=113.0.
IDC Error ellipse: s-maj=19.4km s-min=16.8km az=119.0.

TEH I 27 23 29 33.0 28.33N 59.14E 9 3.5L
CSEM I 27 23 29 33.3–.56 28.38N 59.10E 10 3.5L **¶601902994**
CSEM Event type ke. Error ellipse: s-maj=13.9km s-min=8.1km az=156.0.

ISC I 28 00 19 53.1–1.2 28.15N–.04 59.09E–.05 10 44 2-6
THR I 28 00 19 52.5–1.4 28.17N 59.12E 15 3.5L **¶601686433**

ISCJB	I	28 00 19 53.0–.65	28.24N–.04	59.04E–.07	10	3.5L			
CSEM	I	28 00 19 53.7–.39	28.21N	59.14E	10	3.6L			
TEH	I	28 00 19 58.8	28.42N	58.90E	24	3.6L			
OMAN	I	28 00 20 03.4–4.4	27.98N	57.91E	0	3.6L			
ISC	Event type ke.								
THR	Error ellipse: s-maj=8.5km s-min=6.2km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=16.7.								
CSEM	Event type ke. Error ellipse: s-maj=12.8km s-min=7.6km az=114.0.								
OMAN	Error ellipse: s-maj=154.8km s-min=19.1km az=108.0.								
ISC	**I**	**28 00 45 07.2–1.5**	**28.35N–.06**	**58.98E–.06**	**10**		**33**	**2-6**	
THR	I	28 00 45 04.8–1.1	28.13N	59.08E	15	3.7L			**¶601903165**
ISCJB	I	28 00 45 08.9–.89	28.48N–.06	58.90E–.05	10	3.7L			
CSEM	I	28 00 45 09.5–.48	28.41N	58.93E	15	3.9L			
TEH	I	28 00 45 10.5	28.41N	58.94E	18	3.9L			
ISC	Event type ke.								
THR	Error ellipse: s-maj=6.7km s-min=4.8km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.3km s-min=6.4km az=20.7.								
CSEM	Event type ke. Error ellipse: s-maj=11.1km s-min=8.7km az=164.0.								
TEH	**I**	**28 02 11 12.4**	**28.35N**	**59.01E**	**17**	**3.5L**			
CSEM	I	28 02 11 09.6–.44	28.35N	59.03E	2	3.5L			**¶601903160**
CSEM	Event type ke. Error ellipse: s-maj=9.6km s-min=7.2km az=157.0.								
ISC	**I**	**28 04 13 04.3–.54**	**28.17N–.03**	**59.14E–.04**	**10**	**3.8b**	**72**	**2-90**	
ISCJB	I	28 04 13 03.2–.33	28.16N–.03	59.13E–.06	10	3.8b			**¶16012674**
THR	I	28 04 13 04.8–.78	28.16N	59.07E	15	4.0L			
CSEM	I	28 04 13 06.7–.19	28.18N	59.08E	20–0	4.0L			
OMAN	I	28 04 13 07.9–99	28.07N	59.40E	39–44	4.0L			
IDC	I	28 04 13 07.5–5.2	28.19N	58.98E	33–41	3.8,3.7			
TEH	I	28 04 13 10.7	28.45N	58.91E	19	4.0L,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.1km s-min=3.9km az=4.7.								
THR	Error ellipse: s-maj=4.9km s-min=3.5km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=7.0km s-min=4.0km az=87.0.								
OMAN	Error ellipse: s-maj=104.0km s-min=13.2km az=11.0.								
IDC	Error ellipse: s-maj=18.7km s-min=16.2km az=169.0.								
ISC	**I**	**28 04 20 38.9–.42**	**28.13N–.03**	**59.04E–.02**	**26–2**	**4.9b,4.7s**	**758**	**2-154**	
IDC	I	28 04 20 34.6–.32	28.22N	59.00E	0	4.7,4.7			**¶15977459**
GCMT	I	28 04 20 36.3–.20	28.03N	58.94E	12	5.2W,4.7			
CSEM	I	28 04 20 36.6–.10	28.17N	59.04E	10	4.9b,4.7s			
NEIC	I	28 04 20 36.3	28.15N	59.07E	15	5.3,5.3L			
THR	I	28 04 20 36.2–.67	28.15N	59.07E	14	5.3L,5.3L			
ISCJB	I	28 04 20 36.8–.60	28.12N–.02	59.02E–.02	23–4	4.9b,4.7s			
BJI	I	28 04 20 37.0	28.29N	58.71E	34	5.2b,5.2s			
DSN	I	28 04 20 37.0–.65	28.08N	59.21E	15	6.0L,4.9b			
MOS	I	28 04 20 38.0–1.2	28.13N	59.05E	33	5.1b,4.7s			
TEH	I	28 04 20 39.8	28.34N	58.97E	8	5.3L,4.7s			
OMAN	I	28 04 20 41.5–54	27.95N	59.25E	63–6	5.3L,4.7s			
ISC	Event type fe.								
IDC	Error ellipse: s-maj=8.7km s-min=8.2km az=153.0.								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c91; s109,c188; Duration: 1⇕0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.09±.02 $M_{\theta\theta}$0.91±.01; $M_{\phi\phi}$-0.82±.01; $M_{r\theta}$0.03±.04; $M_{\theta\phi}$0.00±.02; $M_{\phi r}$0.33±.04; Best double couple: NP1:ϕ_s227.00000°,δ77.00000° ,λ-163.00000°. NP2:ϕ_s133.00000°,δ74.00000°,λ-14.00000°. Principal axes: T 0.9090,Plg2.0000°,Azm360.0000°; N 0.0380,Plg69.0000°,Azm265.0000° ; P -0.9470,Plg21.0000°,Azm90.0000° $M_0$0.92800×10^{17}								
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=3.6km az=102.0.								
NEIC	Event type fe. Felt at Bam. After THR.								
THR	Error ellipse: s-maj=4.2km s-min=2.8km az=-1.0.								
ISCJB	Event type fe. Error ellipse: s-maj=2.7km s-min=2.5km az=10.3.								
DSN	Error ellipse: s-maj=13.7km s-min=5.7km az=110.0.								
MOS	Error ellipse: s-maj=5.6km s-min=3.6km az=105.0.								
OMAN	Error ellipse: s-maj=6.6km s-min=5.1km az=39.0.								
ISC	**I**	**28 05 06 46.0–.77**	**28.12N–.03**	**58.99E–.03**	**23–5**	**4.4b,3.8s**	**284**	**2-99**	
IDC	I	28 05 06 41.7–.57	28.10N	58.96E	0	4.3,4.2			**¶15977461**
BJI	I	28 05 06 42.9	28.06N	59.11E	11	4.9b,4.5b			
THR	I	28 05 06 44.2–.50	28.19N	59.11E	26–9	4.8L,4.5b			
CSEM	I	28 05 06 44.1–.15	28.13N	59.00E	10	4.6b,4.2s			
MOS	I	28 05 06 44.6–.94	28.10N	58.92E	27	4.6b,4.2s			
DSN	I	28 05 06 45.4–.60	27.92N	59.20E	15	5.2L,4.2s			
TEH	I	28 05 06 47.7	28.37N	58.93E	6	5.0L,4.2s			
NEIC	I	28 05 06 49.5	28.42N	58.93E	21	4.9,4.8L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=13.3km s-min=11.3km az=132.0.								
THR	Error ellipse: s-maj=3.0km s-min=3.7km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=124.0.								
MOS	Error ellipse: s-maj=8.6km s-min=5.6km az=80.9.								
DSN	Error ellipse: s-maj=14.0km s-min=5.2km az=128.0.								
NEIC	Event type se. After TEH.								
ISC	**I**	**28 06 33 59.5–2.5**	**28.12N–.04**	**59.06E–.03**	**10–16**	**3.8b,3.5s**	**136**	**2-90**	
IDC	I	28 06 33 57.4–.89	28.12N	59.05E	0	3.8,3.7L			**¶15977463**
ISCJB	I	28 06 33 58.8–1.3	28.10N–.02	59.14E–.04	19–11	3.8b,3.6s			
CSEM	I	28 06 33 58.5–.20	28.12N	59.12E	2	4.3L,3.6s			
DSN	I	28 06 34 00.1–.49	28.41N	58.76E	15	4.5L,3.5b			
THR	I	28 06 34 00.8–.64	28.30N	59.06E	18–10	4.2L,3.5b			
TEH	I	28 06 34 03.9	28.44N	58.94E	12	4.3L,3.5b			
NEIC	I	28 06 34 04.1	28.44N	58.96E	14	4.3,4.2L			
BJI	I	28 06 34 07.3	28.58N	59.70E	14	4.8b,4.6b			
OMAN	I	28 06 34 09.3–9.3	27.22N	59.14E	0	4.8b,4.6b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=20.7km s-min=16.4km az=137.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=8.4.								
CSEM	Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=114.0.								
DSN	Error ellipse: s-maj=48.7km s-min=4.1km az=130.0.								
THR	Error ellipse: s-maj=7.0km s-min=2.3km az=-1.0.								
NEIC	Event type se. After TEH.								
OMAN	Error ellipse: s-maj=104.6km s-min=12.7km az=29.0.								
TEH	**I**	**28 06 43 40.5**	**28.33N**	**58.94E**	**8**	**3.6L**			
CSEM	I	28 06 43 41.0–.66	28.50N	59.04E	2	3.6L			**¶601903149**
CSEM	Event type ke. Error ellipse: s-maj=17.0km s-min=9.9km az=166.0.								
TEH	**I**	**28 08 19 46.9**	**28.39N**	**59.07E**	**9**	**3.5L**			
CSEM	I	28 08 19 45.3–.45	28.43N	59.05E	2	3.5L			**¶601903147**
CSEM	Event type ke. Error ellipse: s-maj=10.2km s-min=6.5km az=166.0.								
TEH	**I**	**28 08 37 29.2**	**28.39N**	**59.07E**	**14**	**3.6L**			
CSEM	I	28 08 37 26.3–.61	28.40N	59.13E	2	3.6L			**¶601903146**
CSEM	Event type ke. Error ellipse: s-maj=14.6km s-min=9.3km az=159.0.								
ISC	**I**	**28 11 50 06.7–1.4**	**28.38N–.07**	**58.99E–.05**	**10**		**26**	**2-5**	
THR	I	28 11 50 04.9–.56	28.33N	59.11E	14–9	3.6L			**¶601903133**
CSEM	I	28 11 50 06.9–.43	28.39N	58.98E	2	3.8L			
ISCJB	I	28 11 50 08.0–1.1	28.46N–.07	58.92E–.08	10	3.8L			
TEH	I	28 11 50 11.0	28.38N	58.94E	35	3.8L			
ISC	Event type ke.								
THR	Error ellipse: s-maj=5.6km s-min=2.1km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=10.7km s-min=7.4km az=126.0.								
ISCJB	Event type ke. Error ellipse: s-maj=11.2km s-min=9.0km az=28.2.								
ISC	**I**	**28 12 41 24.0–.68**	**28.09N–.04**	**59.08E–.04**	**10**	**3.9b**	**67**	**2-55**	
OMAN	I	28 12 41 22.0–8.5	28.18N	59.39E	20	3.9b			**¶15978006**
ISCJB	I	28 12 41 22.1–.40	28.03N–.04	59.26E–.06	10	3.8b,2.9s			
IDC	I	28 12 41 22.1–2.1	28.02N	58.91E	0	3.9,3.9b			
NEIC	I	28 12 41 24.4	28.28N	59.14E	14	4.1L,4.0			
THR	I	28 12 41 24.4–.50	28.28N	59.14E	14–8	4.1L,4.0			
CSEM	I	28 12 41 25.3–.22	28.04N	59.08E	20	4.0L,4.0			
TEH	I	28 12 41 29.8	28.33N	59.04E	32	4.0L,4.0			
ISC	Event type ke.								
OMAN	Error ellipse: s-maj=101.1km s-min=17.0km az=171.0.								
ISCJB	Event type ke. Error ellipse: s-maj=7.7km s-min=4.5km az=24.1.								
IDC	Error ellipse: s-maj=51.1km s-min=23.0km az=151.0.								
NEIC	Event type se. After THR.								
THR	Error ellipse: s-maj=5.0km s-min=1.9km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=9.2km s-min=5.5km az=107.0.								
ISC	**I**	**28 13 23 45.2–1.2**	**28.33N–.06**	**59.07E–.04**	**10**		**34**	**2-6**	
ISCJB	I	28 13 23 44.1–1.2	28.26N–.10	59.28E–.09	10				**¶601903113**
THR	I	28 13 23 44.6–.48	28.27N	59.12E	14–8	3.5L			
CSEM	I	28 13 23 45.3–.45	28.35N	59.13E	2	3.7L			
TEH	I	28 13 23 50.1	28.36N	59.01E	32	3.7L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=17.0km s-min=5.5km az=143.5.								
THR	Error ellipse: s-maj=4.8km s-min=1.8km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=11.8km s-min=6.5km az=143.0.								
ISC	**I**	**28 19 45 39.2–1.1**	**28.26N–.04**	**59.14E–.04**	**10**		**37**	**2-7**	
THR	I	28 19 45 38.9–.93	28.15N	59.15E	15	3.6L			**¶601903102**
ISCJB	I	28 19 45 39.5–.77	28.25N–.06	59.10E–.07	10	3.6L			
CSEM	I	28 19 45 39.2–.42	28.23N	59.14E	2	3.5L			
TEH	I	28 19 45 42.2	28.34N	59.00E	14	3.5L			
ISC	Event type ke.								
THR	Error ellipse: s-maj=5.8km s-min=3.9km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=10.9km s-min=6.7km az=43.0.								
CSEM	Event type ke. Error ellipse: s-maj=12.3km s-min=8.4km az=131.0.								
ISC	**I**	**28 20 17 15.6–1.1**	**28.24N–.04**	**59.03E–.05**	**10**		**42**	**2-6**	
DSN	I	28 20 17 13.0–1.6	28.99N	58.27E	15	3.3b			**¶601668480**
THR	I	28 20 17 16.1–.58	28.30N	59.11E	15–8	3.5L			
CSEM	I	28 20 17 17.1–.50	28.20N	59.17E	15	3.5L			
ISCJB	I	28 20 17 18.2–.98	28.45N–.07	58.97E–.07	10	3.5L			
TEH	I	28 20 17 19.9	28.38N	59.05E	20	3.6L			
ISC	Event type ke.								
DSN	Error ellipse: s-maj=89.3km s-min=13.3km az=119.0.								
THR	Error ellipse: s-maj=5.7km s-min=2.1km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=15.3km s-min=7.9km az=123.0.								
ISCJB	Event type ke. Error ellipse: s-maj=10.6km s-min=8.4km az=164.7.								
TEH	**I**	**28 20 30 27.8**	**28.41N**	**58.95E**	**29**	**3.5L**			
CSEM	I	28 20 30 21.2–.97	28.21N	59.15E	2	3.5L			**¶601903101**
CSEM	Event type ke. Error ellipse: s-maj=29.2km s-min=12.0km az=145.0.								
ISC	**I**	**29 00 50 18.2–.36**	**28.08N–.04**	**59.12E–.03**	**10**	**4.3b,4.2s**	**235**	**2-90**	
BJI	I	29 00 50 15.7	28.03N	58.97E	14	4.9b,4.6b			**¶15979154**
ISCJB	I	29 00 50 16.8–.21	28.10N–.02	59.14E–.03	10	4.3b,4.1s			
THR	I	29 00 50 18.2–.70	28.15N	59.08E	15	4.1L,4.1s			
NEIC	I	29 00 50 18.0	28.15N	59.08E	15	4.4b,4.1L			
CSEM	I	29 00 50 19.3–.15	28.09N	59.17E	15	4.4b,4.0s			
MOS	I	29 00 50 19.4–1.2	28.03N	59.14E	33	4.5b,4.0s			
DSN	I	29 00 50 20.5–.72	27.94N	59.12E	15	4.5L,4.0s			
IDC	I	29 00 50 21.0–4.2	28.14N	59.03E	33–33	3.9,3.8			
TEH	I	29 00 50 22.3	28.17N	59.10E	30	4.0L,3.8			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=141.8.								
THR	Error ellipse: s-maj=3.9km s-min=2.8km az=-1.0.								
NEIC	Event type se. After THR.								
CSEM	Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=137.0.								
MOS	Error ellipse: s-maj=8.7km s-min=6.3km az=97.1.								
DSN	Error ellipse: s-maj=19.3km s-min=6.0km az=127.0.								
IDC	Error ellipse: s-maj=15.2km s-min=11.6km az=139.0.								
ISC	**I**	**29 01 26 18.0–2.2**	**27.3N–.20**	**52.9E–.10**	**20**		**17**	**3-45**	
IDC	I	29 01 26 08.0–62	26.39N	53.06E	0	3.8,3.6			**¶17191222**
TEH	I	29 01 26 19.8	27.42N	52.79E	25	3.2L,3.6			
CSEM	I	29 01 26 19.8	27.42N	52.79E	25	3.2L,3.6			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=1151.0km s-min=100.8km az=178.0.								
CSEM	Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**I**	**29 04 43 16.0–.29**	**28.14N–.03**	**59.07E–.03**	**10**	**4.6b,4.0s**	**414**	**2-99**	
BJI	I	29 04 43 10.8	28.12N	58.52E	10	5.0b,4.7b			**¶15979159**
ISCJB	I	29 04 43 14.5–.15	28.17N–.02	58.96E–.02	10	4.5b,4.0s			
DSN	I	29 04 43 16.9–.91	28.07N	59.23E	15	5.4L,4.1s			
THR	I	29 04 43 16.2–1.1	28.16N	59.07E	15	4.7L,4.1s			
CSEM	I	29 04 43 16.2–.13	28.17N	59.04E	10	4.6b,4.1s			
MOS	I	29 04 43 17.5–1.0	28.18N	58.94E	33	4.8b,4.0s			
TEH	I	29 04 43 18.1	28.17N	59.09E	10	4.8L,4.0s			
NEIC	I	29 04 43 19.0	28.33N	59.02E	16	5.0,4.7L			
IDC	I	29 04 43 19.3–4.0	28.19N	58.95E	33–31	4.3,4.3L			
OMAN	I	29 04 43 21.6–1.1	27.97N	59.07E	59–21	4.3,4.3L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=17.2.								
DSN	Error ellipse: s-maj=14.9km s-min=7.7km az=118.0.								
THR	Error ellipse: s-maj=5.9km s-min=4.7km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=106.0.								
MOS	Error ellipse: s-maj=7.5km s-min=4.8km az=99.3.								
NEIC	Event type se. After TEH.								
IDC	Error ellipse: s-maj=12.0km s-min=9.0km az=139.0.								
OMAN	Error ellipse: s-maj=11.4km s-min=6.4km az=47.0.								
ISC	**I**	**29 05 15 12.5–1.4**	**28.14N–.05**	**59.20E–.05**	**10**		**39**	**2-6**	
THR	I	29 05 15 10.0–1.4	28.12N	59.17E	15	3.5L			**¶601903180**
ISCJB	I	29 05 15 11.1–1.0	28.25N–.08	59.18E–.09	10	3.5L			
CSEM	I	29 05 15 11.4–.36	28.19N	59.19E	10	3.5L			
TEH	I	29 05 15 12.5	28.26N	59.09E	6	3.5L			
ISC	Event type ke.								
THR	Error ellipse: s-maj=7.7km s-min=6.2km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=14.4km s-min=7.2km az=43.2.								
CSEM	Event type ke. Error ellipse: s-maj=10.8km s-min=7.4km az=126.0.								
ISC	**I**	**29 14 02 12.7–.55**	**28.16N–.04**	**59.07E–.03**	**10**	**4.0b**	**66**	**2-90**	
IDC	I	29 14 02 10.3–.80	28.09N	58.91E	0	4.1,4.0			**¶16397149**
THR	I	29 14 02 11.9–.63	28.19N	59.06E	14–10	3.8L,4.0			
ISCJB	I	29 14 02 12.3–.34	28.22N–.04	59.13E–.04	10	4.0b,3.2s			
TEH	I	29 14 02 14.3	28.23N	59.19E	16	4.1L,3.2s			
DSN	I	29 14 02 15.2–.55	28.23N	58.90E	15	4.6L,4.1s			
CSEM	I	29 14 02 15.1–.50	28.16N	59.09E	20–0	4.1L,4.1s			
BJI	I	29 14 02 15.4	28.30N	58.90E	10	4.2b,4.0s			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=19.7km s-min=17.2km az=98.0.								
THR	Error ellipse: s-maj=4.6km s-min=2.4km az=-1.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=151.8.								
DSN	Error ellipse: s-maj=36.6km s-min=4.7km az=134.0.								
CSEM	Event type ke. Error ellipse: s-maj=13.3km s-min=8.3km az=85.0.								
ISC	**I**	**29 14 56 18.4–.60**	**28.09N–.04**	**59.10E–.04**	**10**	**3.6b,2.9s**	**84**	**2-55**	
ISCJB	I	29 14 56 17.0–.35	28.07N–.03	59.29E–.05	10	3.7b,2.9s			**¶16012676**
IDC	I	29 14 56 17.1–1.1	28.07N	59.00E	0	3.9,3.8			
CSEM	I	29 14 56 18.9–.24	28.11N	59.21E	10	4.1L,4.1s			
NEIC	I	29 14 56 19.2	28.23N	59.07E	14	4.0L,3.6b			
TEH	I	29 14 56 19.9	28.16N	59.15E	5	4.1L,3.6b			
THR	I	29 14 56 19.2–.57	28.23N	59.07E	14–10	4.0L,3.6b			
DSN	I	29 14 56 21.3–.42	28.24N	58.94E	15	4.5L,4.1s			
OMAN	I	29 14 56 23.0–4.7	27.89N	59.11E	20	4.5L,4.1s			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=24.6.								
IDC	Error ellipse: s-maj=25.6km s-min=18.4km az=126.0.								
CSEM	Event type ke. Error ellipse: s-maj=8.7km s-min=5.3km az=118.0.								
NEIC	Event type se. After THR.								
THR	Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0.								
DSN	Error ellipse: s-maj=23.6km s-min=3.8km az=134.0.								
OMAN	Error ellipse: s-maj=51.3km s-min=14.5km az=48.0.								
ISC	**I**	**29 19 43 48.0–1.2**	**28.21N–.04**	**56.37E–.05**	**10**		**40**	**1-5**	
ISCJB	I	29 19 43 47.2–.49	28.20N–.03	56.32E–.07	10				**¶601668483**
DSN	I	29 19 43 47.2–1.3	28.17N	56.75E	15	4.2L,3.1b			
CSEM	I	29 19 43 48.6–.20	28.20N	56.37E	20	3.2L,3.1b			
TEH	I	29 19 43 48.0	28.27N	56.39E	5	3.2L,3.1b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.4km s-min=4.7km az=173.6.								
DSN	Error ellipse: s-maj=64.8km s-min=11.7km az=106.0.								
CSEM	Event type ke. Error ellipse: s-maj=9.1km s-min=4.5km az=90.0.								
TEH	**I**	**29 23 36 34.8**	**28.18N**	**59.03E**	**5**	**3.5L**			
CSEM	I	29 23 36 33.9–1.2	28.14N	59.32E	10	3.3L			**¶601903169**
CSEM	Event type ke. Error ellipse: s-maj=33.5km s-min=10.5km az=149.0.								
ISC	**I**	**30 05 35 02.1–1.5**	**28.17N–.05**	**59.14E–.05**	**10**		**27**	**2-7**	
THR	I	30 05 34 59.8–.88	28.16N	59.12E	15	3.6L			**¶601903188**
ISCJB	I	30 05 35 00.5–.81	28.21N–.07	59.14E–.08	10	3.6L			
CSEM	I	30 05 35 01.8–.34	28.21N	59.12E	15	3.2L			

TEH I 30 05 35 02.5 28.29N 59.10E 16 3.2L
ISC Event type ke.
THR Error ellipse: s-maj=4.9km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=9.1km az=40.7.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=8.4km az=133.0.
ISC I 30 17 56 09.0–.39 28.08N–.04 59.20E–.03 10 4.0b,3.5s 195 2-90
IDC I 30 17 56 07.7–.58 28.14N 59.24E 0 4.1,4.0 **¶16012677**
ISCJB I 30 17 56 07.8–.23 28.11N–.03 59.20E–.03 10 4.0b,3.4s
DSN I 30 17 56 09.2–1.5 27.76N 59.64E 26–13 4.7L,4.1s
NEIC I 30 17 56 10.3 28.21N 59.11E 16 4.4,4.3L
THR I 30 17 56 10.3–.35 28.21N 59.11E 16–5 4.3L,4.3L
OMAN I 30 17 56 10.8–.77 27.96N 59.24E 10 4.3L,4.3L
CSEM I 30 17 56 10.0–.15 28.10N 59.26E 15 4.1s,4.1b
MOS I 30 17 56 11.0–.91 28.18N 59.24E 33 4.2b,4.1b
TEH I 30 17 56 12.0 28.24N 59.11E 8 4.2L,4.1b
BJI I 30 17 56 15.1 28.55N 59.99E 5 4.8b,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.7km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=41.8.
DSN Error ellipse: s-maj=16.1km s-min=9.5km az=119.0.
NEIC Event type se. After THR.
THR Error ellipse: s-maj=3.4km s-min=1.3km az=-1.0.
OMAN Error ellipse: s-maj=16.9km s-min=8.1km az=118.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=123.0.
MOS Error ellipse: s-maj=10.1km s-min=6.7km az=83.6.
ISC I 30 18 29 21.1–1.1 25.3N–.20 60.79E–.08 10 3.7b 43 3-57
IDC I 30 18 29 18.6–1.6 25.05N 60.71E 0 4.0L,3.9 **¶16136235**
NEIC I 30 18 29 19.6–.91 25.03N 60.75E 10 4.1b,3.9
CSEM I 30 18 29 19.8–.62 25.06N 60.85E 10 4.1b,3.9
DSN I 30 18 29 29.2–1.6 25.19N 60.17E 15 4.2L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=33.0km s-min=16.5km az=152.0.
NEIC Event type se. Error ellipse: s-maj=20.1km s-min=10.3km az=142.0.
CSEM Event type ke. Error ellipse: s-maj=26.1km s-min=9.7km az=149.0.
DSN Error ellipse: s-maj=34.0km s-min=14.1km az=3.0.
ISC I 30 18 54 22.1–.39 27.17N–.04 53.46E–.04 10 4.2b 217 1-93
DSN I 30 18 54 17.4–.96 27.87N 53.29E 15 5.0L,3.9b **¶15981590**
NEIC I 30 18 54 19.7 27.12N 53.36E 12 4.3b,4.2
ISCJB I 30 18 54 20.8–.27 27.18N–.03 53.40E–.03 10 4.2b,4.2
IDC I 30 18 54 21.1–.72 27.26N 53.50E 0 4.2,4.1
TEH I 30 18 54 22.6 27.04N 53.33E 18 4.1L,4.1
BJI I 30 18 54 22.6 27.81N 53.45E 11 4.9b,4.4b
THR I 30 18 54 22.9–.47 27.11N 53.35E 45–7 4.1L,4.4b
CSEM I 30 18 54 23.7–.16 27.28N 53.44E 15 4.3b,4.4b
MOS I 30 18 54 24.2–1.0 27.25N 53.52E 33 4.4b,4.4b
ISC Event type ke.
DSN Error ellipse: s-maj=15.6km s-min=5.2km az=15.0.
NEIC Event type se. After TEH.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=25.5.
IDC Error ellipse: s-maj=16.3km s-min=12.4km az=179.0.
THR Error ellipse: s-maj=7.4km s-min=8.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=33.0.
MOS Error ellipse: s-maj=9.0km s-min=5.7km az=99.8.
ISC I 30 18 58 18.4–.46 27.19N–.03 53.49E–.03 36–1 4.6b,3.9s 427 1-120
DSN I 30 18 58 04.2–1.2 28.16N 52.94E 15 5.4L,4.0b **¶15981591**
BJI I 30 18 58 13.2 27.32N 53.05E 28 5.1b,4.6b
THR I 30 18 58 13.8–.32 27.01N 53.47E 18–5 4.4L,4.6b
NEIC I 30 18 58 13.9 27.12N 53.37E 28 4.8b,4.4
MOS I 30 18 58 16.2–.99 27.23N 53.47E 33 5.0b,4.4
TEH I 30 18 58 16.3 27.11N 53.40E 18 4.3L,4.4
CSEM I 30 18 58 16.8–.11 27.29N 53.44E 20 4.7b,4.4
ISCJB I 30 18 58 17.7–.38 27.26N–.03 53.45E–.02 44–3 4.6b,3.9s
IDC I 30 18 58 19.4–2.3 27.44N 53.50E 33–17 4.3,4.2
ISC Event type ke.
DSN Error ellipse: s-maj=24.0km s-min=5.6km az=19.0.
THR Error ellipse: s-maj=4.1km s-min=2.7km az=-1.0.
NEIC Event type se. After TEH.
MOS Error ellipse: s-maj=7.1km s-min=4.2km az=102.5.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.2km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=21.6.
IDC Error ellipse: s-maj=11.5km s-min=10.0km az=161.0.
ISC I 31 05 39 31.9–1.4 28.20N–.08 59.13E–.08 10 34 2-17
ISN I 31 05 39 26.2–1.9 28.44N 60.03E 35–108 3.7L **¶15998188**
ISCJB I 31 05 39 30.0–1.4 28.18N–.10 59.2E–.10 10 3.7L
TEH I 31 05 39 31.8 28.18N 59.14E 5 3.7L
CSEM I 31 05 39 31.0–.57 28.16N 59.22E 10 3.7L
THR I 31 05 39 31.5–.70 28.26N 59.07E 16–9 3.5L
ISC Event type ke.
ISN Error ellipse: s-maj=61.4km s-min=70.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=7.5km az=135.9.
CSEM Event type ke. Error ellipse: s-maj=16.1km s-min=6.2km az=138.0.
THR Error ellipse: s-maj=6.4km s-min=3.6km az=-1.0.
ISC I 31 12 35 15.7–.00 28.21N–.05 59.16E–.06 10 3.4b 26 2-55
IDC I 31 12 35 11.2–4.6 27.20N 59.47E 0 3.4,3.4 **¶17191407**
ISCJB I 31 12 35 14.4–.75 28.17N–.07 59.12E–.07 10 3.3b,3.4
CSEM I 31 12 35 14.4–.32 28.17N 59.19E 10 3.7L,3.4
TEH I 31 12 35 18.1 28.34N 58.97E 16 3.7L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=197.0km s-min=26.8km az=150.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=8.0km az=150.5.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=8.0km az=120.0.
TEH II 01 03 01 42.7 28.31N 59.06E 11 3.5L
CSEM II 01 03 01 41.6–.40 28.36N 59.06E 2 3.5L **¶602000877**
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=6.2km az=143.0.
TEH II 01 09 25 30.1 28.21N 59.10E 10 3.5L
CSEM II 01 09 25 30.1 28.21N 59.10E 10 3.5L **¶602000884**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DSN II 02 13 05 42.4–2.0 27.75N 56.17E 10 3.8L,2.9b
OMAN II 02 13 04 36.2–99 32.72N 57.11E 49–99 3.8L,2.9b **¶601668506**
CSEM II 02 13 06 06.4–.89 26.00N 55.90E 9–17 3.8L,2.9b
DSN Error ellipse: s-maj=24.1km s-min=21.6km az=72.0.
OMAN Error ellipse: s-maj=9999.0km s-min=139.9km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=43.4km s-min=23.6km az=33.0.
ISC II 04 08 37 09.9–1.5 28.18N–.05 59.17E–.05 10 31 2-6
ISCJB II 04 08 37 08.8–.75 28.20N–.06 59.25E–.06 10 **¶602001046**
THR II 04 08 37 10.1–.34 28.18N 59.24E 35–10 3.6L
TEH II 04 08 37 10.3 28.15N 59.16E 10 3.8L
CSEM II 04 08 37 10.1–.34 28.19N 59.17E 10 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.8km az=142.0.
THR Error ellipse: s-maj=3.7km s-min=4.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=7.0km az=133.0.
TEH II 04 19 19 50.3 28.26N 59.10E 4 3.5L
CSEM II 04 19 19 51.8–.62 28.41N 59.06E 10 3.5L **¶602001076**
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=9.1km az=159.0.
IDC II 05 10 08 31.2–2.6 27.02N 53.55E 0 3.7,3.7
¶17191730
IDC Error ellipse: s-maj=51.9km s-min=28.6km az=30.0.
ISC II 05 16 20 11.7–.63 28.18N–.03 56.42E–.06 28 3.6b 51 1-60
IDC II 05 16 20 07.7–3.3 28.26N 56.37E 0 3.9s,3.9 **¶17191749**
DSN II 05 16 20 07.4–1.0 28.55N 56.58E 15 4.1L,3.4b
THR II 05 16 20 10.1–.34 28.29N 56.35E 14–12 3.5L,3.4b
ISCJB II 05 16 20 11.7–.37 28.25N–.03 56.39E–.07 28 4.2s,3.6b
TEH II 05 16 20 12.7 28.19N 56.41E 21 3.4L,3.6b
CSEM II 05 16 20 12.1–.11 28.23N 56.38E 15 3.4L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=70.3km s-min=22.6km az=7.0.
DSN Error ellipse: s-maj=41.6km s-min=7.4km az=90.0.
THR Error ellipse: s-maj=5.3km s-min=6.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=3.7km az=179.7.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=2.1km az=91.0.

ISC II 05 21 08 05.2–1.2 26.63N–.05 55.15E–.06 17 28 1-7
DSN II 05 21 08 03.8–.76 26.93N 55.28E 15 3.5L,3.2b **¶601668517**
TEH II 05 21 08 04.2 26.50N 55.14E 16 3.1L,3.2b
ISCJB II 05 21 08 05.1–.66 26.73N–.05 55.06E–.07 17 3.1L,3.2b
CSEM II 05 21 08 05.9–.33 26.70N 55.23E 10 3.1L,3.2b
ISC Event type ke.
DSN Error ellipse: s-maj=10.7km s-min=3.5km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.5km az=167.6.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=7.1km az=79.0.
ISC II 06 08 13 14.0–.31 28.19N–.03 56.40E–.04 28 4.6b,3.6s 410 1-91
BJI II 06 08 13 08.2 28.47N 56.05E 10 4.8b,4.6b **¶16007693**
MOS II 06 08 13 10.5–.94 28.22N 56.37E 17 4.7b,4.6b
NEIC II 06 08 13 11.5–.24 28.23N 56.34E 10 4.6,4.6b
CSEM II 06 08 13 12.7–.11 28.27N 56.39E 15 4.7b,4.2s
ISCJB II 06 08 13 12.8–.16 28.26N–.02 56.36E–.02 28 4.6b,3.6s
ISN II 06 08 13 12.3–1.9 27.47N 56.50E 0–373 4.7L,3.6s
THR II 06 08 13 13.0–.76 28.25N 56.46E 29–6 4.5L,3.6s
DSN II 06 08 13 14.4–.89 28.21N 56.54E 15 5.1L,4.2s
TEH II 06 08 13 15.0 28.16N 56.37E 12 4.5L,4.2s
IDC II 06 08 13 15.8–2.5 28.28N 56.38E 39–22 4.5,4.4
OMAN II 06 08 13 16.7–99 28.16N 56.41E 24–568 4.5,4.4
ISC Event type ke.
MOS Error ellipse: s-maj=6.7km s-min=4.5km az=103.9.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.2km az=163.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=81.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=43.2.
ISN Error ellipse: s-maj=171.6km s-min=294.6km az=-1.0.
THR Error ellipse: s-maj=3.2km s-min=5.6km az=-1.0.
DSN Error ellipse: s-maj=34.9km s-min=6.3km az=109.0.
IDC Error ellipse: s-maj=12.4km s-min=10.3km az=175.0.
OMAN Error ellipse: s-maj=9999.0km s-min=54.7km az=8.0.
ISC II 06 18 51 08.3–1.0 28.36N–.06 54.01E–.04 24 3.6b 29 1-38
CSEM II 06 18 51 08.2–.51 28.45N 54.06E 2 3.1L **¶17191819**
ISCJB II 06 18 51 09.1–.90 28.42N–.08 54.04E–.06 24 3.5b
TEH II 06 18 51 10.7 28.46N 53.98E 20 3.1L
IDC II 06 18 51 12.2–39 29.55N 54.20E 0 3.6,3.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.6km s-min=9.2km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.7km az=14.5.
IDC Error ellipse: s-maj=761.5km s-min=51.7km az=7.0.
ISC II 08 15 14 21.9–1.1 29.57N–.06 52.16E–.04 10 27 0-6
ISCJB II 08 15 14 21.1–.75 29.52N–.06 52.16E–.07 10 **¶601668534**
TEH II 08 15 14 21.2 29.50N 52.11E 2 2.8L
CSEM II 08 15 14 21.7–.32 29.57N 52.18E 2 3.6s,2.8L
DSN II 08 15 14 27.0–.77 29.32N 52.38E 10 3.6s,3.2b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=5.3km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=5.6km az=41.0.
DSN Error ellipse: s-maj=24.4km s-min=6.6km az=48.0.
TEH II 09 03 02 15.7 29.76N 53.99E 25 2.7L
¶602001370
ISC II 11 05 59 58.9–1.5 28.31N–.05 59.02E–.05 10 42 2-6
THR II 11 05 59 57.1–.95 28.21N 59.06E 14–8 3.7L **¶602001471**
TEH II 11 05 59 59.8 28.28N 58.99E 6 3.8L
CSEM II 11 05 59 59.5–.41 28.35N 58.99E 2 3.8L
ISCJB II 11 06 00 00.4–.83 28.43N–.05 58.89E–.05 10 3.8L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC II 11 18 21 08.6–1.3 27.83N–.03 56.58E–.08 16–11 39 0-5
DSN II 11 18 21 07.2–.87 27.81N 56.74E 10 3.9L,3.0b **¶601668544**
TEH II 11 18 21 08.5 27.91N 56.56E 5 3.0L,3.0b
CSEM II 11 18 21 09.1–.20 27.82N 56.53E 20–0 3.0L,3.0b
ISC Event type ke.
DSN Error ellipse: s-maj=35.6km s-min=7.1km az=110.0.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=3.7km az=97.0.
TEH II 12 09 45 12.8 28.28N 59.04E 5 3.7L
CSEM II 12 09 45 12.8–.69 28.35N 59.07E 10 3.7L **¶602001496**
CSEM Event type ke. Error ellipse: s-maj=16.6km s-min=11.8km az=159.0.
TEH II 13 03 57 51.5 28.31N 59.09E 4 3.5L
CSEM II 13 03 57 50.9–.37 28.37N 59.10E 2 3.5L **¶602001547**
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=5.8km az=145.0.
TEH II 13 08 15 48.1 28.26N 58.95E 16 3.6L
CSEM II 13 08 15 48.1 28.26N 58.95E 16 3.6L **¶602001545**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 13 11 56 15.1–.43 29.16N–.03 52.62E–.03 12 4.0b 142 0-94
ISN II 13 11 55 58.7–1.9 28.68N 53.49E 0–351 3.8L **¶16022460**
BJI II 13 11 56 12.0 29.10N 52.50E 5 4.1b
ISCJB II 13 11 56 13.5–.26 29.13N–.03 52.56E–.03 12 3.9b
THR II 13 11 56 13.8–.48 29.15N 52.64E 10–8 4.0L
NEIC II 13 11 56 13.8 29.15N 52.64E 10 4.0L,4.0b
IDC II 13 11 56 13.2–.74 29.13N 52.56E 0 4.1,4.0
CSEM II 13 11 56 14.5–.15 29.14N 52.58E 5 4.2b,4.0
TEH II 13 11 56 15.4 29.16N 52.63E 5 3.9L,4.0
DSN II 13 11 56 18.4–.19 29.01N 52.75E 10 5.0L,3.7b
ISC Event type ke.
ISN Error ellipse: s-maj=237.3km s-min=415.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=35.2.
THR Error ellipse: s-maj=4.4km s-min=3.9km az=-1.0.
NEIC Event type se. After THR.
IDC Error ellipse: s-maj=17.5km s-min=13.1km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=37.0.
DSN Error ellipse: s-maj=6.0km s-min=4.4km az=15.0.
TEH II 15 16 07 49.8 28.39N 59.00E 23 3.7L
CSEM II 15 16 07 47.6–.56 28.37N 58.98E 10 3.7L **¶602001650**
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=7.8km az=174.0.
ISC II 18 08 56 33.6–1.5 28.22N–.08 59.13E–.07 10 29 2-5
ISCJB II 18 08 56 31.4–1.6 28.2N–.10 59.3E–.10 10 **¶602001827**
CSEM II 18 08 56 32.8–.57 28.27N 59.10E 2 3.9L
THR II 18 08 56 33.0–.41 28.23N 59.06E 18–7 3.7L
TEH II 18 08 56 33.7 28.20N 59.11E 8 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.8km s-min=8.6km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=7.9km az=148.0.
THR Error ellipse: s-maj=4.9km s-min=2.3km az=-1.0.
ISC II 18 14 33 40.3–.45 28.11N–.03 55.87E–.04 16 4.0b,3.0s 99 1-91
DSN II 18 14 33 34.4–1.2 28.59N 55.63E 10 4.7L,3.7b **¶16168085**
IDC II 18 14 33 37.5–.96 28.08N 55.81E 0 4.0,4.0b
THR II 18 14 33 38.9–.30 28.13N 55.91E 15 4.0L,4.0b
ISCJB II 18 14 33 39.5–.26 28.09N–.03 55.83E–.04 16 3.9b,3.3s
OMAN II 18 14 33 40.0–2.4 28.27N 55.94E 144–16 3.9b,3.3s
TEH II 18 14 33 41.5 27.98N 55.90E 19 3.9L,3.3s
CSEM II 18 14 33 42.4–.20 28.08N 55.86E 20 3.9L,3.3s
ISC Event type ke.
DSN Error ellipse: s-maj=34.2km s-min=8.1km az=68.0.
IDC Error ellipse: s-maj=20.7km s-min=15.3km az=173.0.
THR Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=163.9.
OMAN Error ellipse: s-maj=26.5km s-min=24.6km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=4.6km az=89.0.
ISC II 18 16 53 32.0–.67 26.82N–.03 54.43E–.04 18 3.5b 57 2-56
OMAN II 18 16 53 25.4–2.1 27.52N 54.01E 35 3.5b **¶17192494**
DSN II 18 16 53 28.5–1.4 27.17N 54.34E 10 3.8L,3.3b
IDC II 18 16 53 29.4–1.2 26.86N 54.43E 0 3.7,3.6b
THR II 18 16 53 30.1–.34 26.72N 54.38E 14–4 3.6L,3.6b
ISCJB II 18 16 53 31.8–.53 26.85N–.05 54.39E–.07 18 3.5b,3.4s
TEH II 18 16 53 32.4 26.72N 54.41E 15 3.7L,3.4s
CSEM II 18 16 53 33.0–.42 26.88N 54.53E 10 3.7L,3.4s
ISC Event type ke.
OMAN Error ellipse: s-maj=32.5km s-min=20.2km az=43.0.
DSN Error ellipse: s-maj=18.4km s-min=6.9km az=6.0.

IDC Error ellipse: s-maj=28.0km s-min=18.8km az=24.0.
THR Error ellipse: s-maj=7.8km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.4km az=149.8.
CSEM Event type ke. Error ellipse: s-maj=12.9km s-min=7.8km az=61.0.

ISC	**II**	**18 17 13 28.8–.65**	**26.78N–.05**	**54.42E–.06**	**18**	**3.6b**	**50**	**2-91**
DSN	II	18 17 13 25.6–1.4	27.17N	54.33E	10	3.9L,3.2b		**¶17192495**
IDC	II	18 17 13 26.4–1.2	26.83N	54.41E	0	3.8,3.7		
THR	II	18 17 13 27.2–.35	26.77N	54.48E	14–5	3.5L,3.7		
ISCJB	II	18 17 13 28.8–.47	26.86N–.05	54.40E–.07	18	3.7b,3.7		
TEH	II	18 17 13 30.7	26.83N	54.45E	10	3.5L,3.7		
CSEM	II	18 17 13 30.1–.32	26.85N	54.42E	10	3.5L,3.7		

ISC Event type ke.
DSN Error ellipse: s-maj=17.1km s-min=6.2km az=3.0.
IDC Error ellipse: s-maj=24.4km s-min=20.4km az=0.0.
THR Error ellipse: s-maj=8.5km s-min=4.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.2km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=13.4km s-min=5.7km az=63.0.

ISC	**II**	**19 01 07 29.4–1.3**	**28.39N–.07**	**58.94E–.05**	**10**		**29**	**2-5**
THR	II	19 01 07 27.2–.78	28.28N	59.00E	14–13	3.5L		**¶602001899**
TEH	II	19 01 07 29.8	28.34N	58.98E	15	3.6L		
CSEM	II	19 01 07 31.7–.31	28.59N	58.97E	10	3.6L		

ISC Event type ke.
THR Error ellipse: s-maj=7.6km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.7km az=167.0.

ISC	**II**	**19 08 12 55.9–.59**	**26.78N–.04**	**54.43E–.04**	**18**	**3.7b**	**73**	**2-92**
DSN	II	19 08 12 52.3–1.4	27.30N	54.38E	10	4.4L,3.4b		**¶16168877**
TEH	II	19 08 12 54.5	26.86N	54.44E	7	3.8L,3.4b		
ISCJB	II	19 08 12 55.5–.49	26.84N–.05	54.30E–.06	18	3.7b,3.4b		
THR	II	19 08 12 55.5–.64	26.81N	54.42E	14–7	3.8L,3.4b		
CSEM	II	19 08 12 59.0–.25	26.87N	54.47E	20–0	3.8L,3.4b		
IDC	II	19 08 12 59.4–3.7	26.95N	54.48E	40–35	3.7,3.6		

ISC Event type ke.
DSN Error ellipse: s-maj=17.7km s-min=6.7km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.5km az=145.8.
THR Error ellipse: s-maj=14.2km s-min=6.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.6km az=61.0.
IDC Error ellipse: s-maj=23.2km s-min=18.3km az=16.0.

TEH	**II**	**21 04 23 49.0**	**28.19N**	**59.11E**	**15**	**3.5L**		
CSEM	II	21 04 23 48.4–.50	28.20N	59.05E	10	3.5L		**¶602001958**

CSEM Event type ke. Error ellipse: s-maj=13.7km s-min=12.2km az=137.0.

DSN	**II**	**22 22 21 59.6–.77**	**27.81N**	**56.74E**	**14**	**4.1L,2.8b**		
CSEM	II	22 22 21 57.7–.26	27.85N	56.81E	2	2.8L,2.8b		**¶601668604**

DSN Error ellipse: s-maj=35.9km s-min=6.6km az=108.0.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=4.6km az=94.0.

ISC	**II**	**23 03 26 00.2–.39**	**26.77N–.04**	**57.57E–.04**	**25**	**4.3b**	**234**	**0-91**
ISCJB	II	23 03 25 59.0–.23	26.79N–.02	57.66E–.03	25	4.3b,2.9s		**¶16136364**
CSEM	II	23 03 25 59.9–.18	26.79N	57.67E	20	4.4b,3.7s		
DSN	II	23 03 26 00.1–2.0	26.76N	57.86E	34	4.2L,3.7s		
THR	II	23 03 26 00.5–.38	26.73N	57.52E	26–5	4.1L,3.7s		
NEIC	II	23 03 26 00.5	26.73N	57.52E	26	4.4b,4.1L		
OMAN	II	23 03 26 01.9–27	26.80N	57.71E	36–0	4.4b,4.1L		
TEH	II	23 03 26 01.5	26.73N	57.49E	16	4.0L,4.1L		
BJI	II	23 03 26 02.5	27.06N	58.06E	25	4.9b,4.7b		
MOS	II	23 03 26 02.2–1.1	26.96N	57.63E	47	4.4b,4.7b		
IDC	II	23 03 26 03.0–2.4	26.84N	57.57E	43–25	4.2,4.1L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=24.8.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=109.0.
DSN Error ellipse: s-maj=27.1km s-min=11.7km az=175.0.
THR Error ellipse: s-maj=4.0km s-min=3.7km az=-1.0.
NEIC Event type se. After THR.
OMAN Error ellipse: s-maj=4.9km s-min=1.7km az=23.0.
MOS Error ellipse: s-maj=10.0km s-min=6.2km az=93.6.
IDC Error ellipse: s-maj=18.5km s-min=14.0km az=149.0.

ISC	**II**	**24 03 36 18.6–1.3**	**28.34N–.06**	**58.98E–.05**	**10**		**39**	**2-6**
THR	II	24 03 36 16.7–.43	28.18N	59.03E	14–4	3.6L		**¶602002136**
CSEM	II	24 03 36 18.5–.40	28.34N	58.98E	2	3.8L		
ISCJB	II	24 03 36 19.6–.81	28.42N–.06	58.91E–.06	10	3.8L		
TEH	II	24 03 36 22.7	28.35N	58.96E	35	3.8L		

ISC Event type ke.
THR Error ellipse: s-maj=2.3km s-min=1.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=6.6km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.2km az=139.3.

TEH	**II**	**28 03 48 08.9**	**28.22N**	**52.28E**	**5**	**3.5L**		
CSEM	II	28 03 48 06.5–.82	28.15N	52.22E	2	3.4L		**¶602002310**

CSEM Event type ke. Error ellipse: s-maj=20.8km s-min=8.2km az=33.0.

ISC	**II**	**28 04 03 06.4–1.1**	**28.24N–.08**	**52.25E–.08**	**15**		**24**	**1-49**
ISCJB	II	28 04 03 05.7–.85	28.33N–.06	52.23E–.08	15	3.7b		**¶17192977**
IDC	II	28 04 03 05.1–1.9	28.40N	52.31E	0	3.7b,3.6		
TEH	II	28 04 03 07.7	28.34N	52.20E	10	3.3L,3.6		
CSEM	II	28 04 03 07.7	28.34N	52.20E	10	3.3L,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=8.4km az=28.2.
IDC Error ellipse: s-maj=50.5km s-min=31.5km az=47.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**02 23 19 16.8–.52**	**27.19N–.06**	**54.25E–.05**	**18**	**3.7b**	**71**	**2-92**
THR	III	02 23 19 13.4–.34	26.90N	54.24E	18–4	3.6L		**¶17193162**
IDC	III	02 23 19 13.6–.81	27.17N	54.29E	0	3.9,3.8		
ISCJB	III	02 23 19 15.4–.35	27.13N–.04	54.13E–.04	18	4.0s,3.7b		
CSEM	III	02 23 19 16.5–.29	27.19N	54.31E	2	3.6L,3.7b		
TEH	III	02 23 19 17.4	27.18N	54.33E	7	3.4L,3.7b		
OMAN	III	02 23 19 20.9–.11	27.23N	54.38E	37–0	3.4L,3.7b		

ISC Event type ke.
THR Error ellipse: s-maj=8.9km s-min=2.1km az=-1.0.
IDC Error ellipse: s-maj=19.1km s-min=17.3km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.8km az=41.2.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=5.4km az=46.0.
OMAN Error ellipse: s-maj=6.5km s-min=1.4km az=17.0.

ISC	**III**	**05 12 03 08.6–.71**	**29.94N–.09**	**51.07E–.08**	**22**	**3.9b**	**29**	**1-87**
ISN	III	05 12 02 55.0–1.9	29.98N	51.60E	0	3.5L		**¶16484404**
IDC	III	05 12 03 05.9–1.3	30.15N	51.05E	0	4.0,4.0		
ISCJB	III	05 12 03 05.6–.69	29.82N–.08	50.88E–.06	22	3.8b,4.0		
TEH	III	05 12 03 07.7	30.11N	50.99E	17	3.4L,4.0		
CSEM	III	05 12 03 07.7	30.11N	50.99E	17	3.4L,4.0		

ISC Event type ke.
ISN Error ellipse: s-maj=7.5km s-min=34.5km az=-1.0.
IDC Error ellipse: s-maj=29.8km s-min=24.5km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.5km az=10.1.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**05 12 24 31.4–.75**	**27.64N–.06**	**52.58E–.08**	**14**	**3.8b**	**27**	**2-94**
IDC	III	05 12 24 29.7–1.1	27.70N	52.58E	0	3.8,3.8		**¶17193280**
ISCJB	III	05 12 24 30.2–.59	27.67N–.05	52.55E–.09	14	3.8b,3.8		
TEH	III	05 12 24 31.5	27.63N	52.40E	4	3.4L,3.8		
CSEM	III	05 12 24 31.5	27.63N	52.40E	4	3.4L,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=24.4km s-min=19.3km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.4km az=12.2.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**05 20 42 51.4–.41**	**28.28N–.02**	**57.13E–.02**	**28–2**	**5.2b,4.3s**	**1243**	**1-128**
BJI	III	05 20 42 40.6	28.19N	56.41E	5	4.9b,4.9b		**¶16196695**
ISCJB	III	05 20 42 49.8–.12	28.26N–.02	57.16E–.01	28	5.1b,4.3s		
CSEM	III	05 20 42 49.6–.08	28.33N	57.19E	15	5.2b,4.3s		
ISN	III	05 20 42 52.4–.71	28.21N	57.24E	43–23	5.1L,4.3s		
THR	III	05 20 42 52.8–.45	28.42N	56.95E	14–4	4.9L,4.3s		
IDC	III	05 20 42 53.3–1.2	28.27N	57.20E	43–10	4.9,4.8		
TEH	III	05 20 42 53.9	28.30N	57.14E	19	5.1L,4.8		
GCMT	III	05 20 42 53.9–.30	28.12N	57.16E	16–0	5.2W,4.8		
NEIC	III	05 20 42 53.9	28.30N	57.14E	19	5.2b,5.1		
MOS	III	05 20 42 56.9–.96	28.35N	57.12E	23	5.1b,5.1		
OMAN	III	05 20 43 02.6–29	27.54N	56.58E	11	5.1b,5.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.8km az=17.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=18.0.
ISN Error ellipse: s-maj=9.0km s-min=7.6km az=-1.0.
THR Error ellipse: s-maj=2.4km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=10.8km s-min=8.9km az=157.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s36,c46; s70,c110; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.56±.10 $M_{\theta\theta}$-0.79±.06; $M_{\phi\phi}$0.22±.08; $M_{r\theta}$6.69±.54; $M_{\theta\phi}$0.53±.06; $M_{\phi r}$-0.33±.23; Best double couple: NP1:ϕ_s93.00000°,δ87.00000°,λ86.00000°. NP2:ϕ_s327.00000°,δ5.00000°,λ144.00000°. Principal axes: T 6.6150,Plg48.0000°,Azm358.0000°; N 0.2730,Plg4.0000°,Azm93.0000°; P -6.8880,Plg42.0000°,Azm187.0000° $M_0$6.75200×10^{16}
NEIC Event type fe. Felt at Jiroft and Kerman. After TEH.
MOS Error ellipse: s-maj=5.0km s-min=3.2km az=110.5.
OMAN Error ellipse: s-maj=12.4km s-min=5.2km az=228.0.

ISC	**III**	**06 00 25 24.3–.88**	**27.19N–.09**	**55.01E–.05**	**17**	**3.6b**	**34**	**1-64**
IDC	III	06 00 25 21.6–1.5	27.28N	54.91E	0	3.6,3.5b		**¶17193316**
ISCJB	III	06 00 25 22.8–.62	27.10N–.06	54.91E–.05	17	4.1s,3.5b		
CSEM	III	06 00 25 23.8–1.1	27.12N	55.03E	10	3.4L,3.5b		
TEH	III	06 00 25 25.1	27.19N	54.97E	5	3.4L,3.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=32.3km s-min=24.1km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.4km az=31.7.
CSEM Event type ke. Error ellipse: s-maj=31.3km s-min=5.5km az=11.0.

TEH	**III**	**07 01 44 07.8**	**28.34N**	**58.95E**	**5**	**3.6L**		
CSEM	III	07 01 44 08.7–.59	28.40N	58.86E	10	3.6L		**¶602002726**

CSEM Event type ke. Error ellipse: s-maj=18.4km s-min=9.1km az=139.0.

TEH	**III**	**08 07 26 09.1**	**28.32N**	**59.04E**	**17**	**3.7L**		
CSEM	III	08 07 26 09.1	28.32N	59.04E	17	3.7L		**¶602002799**

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**14 07 55 09.9–.30**	**27.81N–.03**	**56.75E–.03**	**20–2**	**4.8b,4.6s**	**334**	**0-120**
IDC	III	14 07 55 06.4–.50	27.83N	56.76E	0	4.6,4.6b		**¶16311653**
BJI	III	14 07 55 07.0	27.80N	56.80E	21	5.4b,4.9b		
TEH	III	14 07 55 08.7	27.84N	56.71E	14	4.7L,4.9b		
NEIC	III	14 07 55 08.7	27.84N	56.71E	14	4.8b,4.7		
THR	III	14 07 55 09.8–.33	27.70N	56.79E	25–5	4.8L,4.7		
ISN	III	14 07 55 10.9–1.7	28.52N	57.36E	41–58	4.9L,4.7		
ISCJB	III	14 07 55 10.4–.35	27.72N–.02	56.71E–.02	41–3	4.7b,4.5s		
MOS	III	14 07 55 10.0–1.1	27.80N	56.81E	33	4.9b,4.5s		
CSEM	III	14 07 55 10.0–.18	27.73N	56.75E	20	4.8b,4.5s		

ISC Event type ke.
IDC Error ellipse: s-maj=12.4km s-min=10.4km az=170.0.
NEIC Event type se. After TEH.
THR Error ellipse: s-maj=2.4km s-min=2.6km az=-1.0.
ISN Error ellipse: s-maj=26.2km s-min=20.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=4.3.
MOS Error ellipse: s-maj=7.1km s-min=4.4km az=99.9.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=5.2km az=115.0.

ISC	**III**	**14 09 12 29.1–.63**	**29.87N–.09**	**51.24E–.05**	**15**	**3.8b**	**48**	**1-87**
ISN	III	14 09 12 13.3–2.6	29.58N	51.83E	0	3.6L		**¶16477801**
IDC	III	14 09 12 26.8–1.2	29.91N	51.30E	0	4.0,3.9		
ISCJB	III	14 09 12 27.3–.52	29.77N–.05	51.20E–.04	15	3.7b,3.9		
TEH	III	14 09 12 27.5	29.79N	51.07E	4	3.6L,3.9		
CSEM	III	14 09 12 29.8–.48	30.00N	51.28E	2	3.6L,3.9		
THR	III	14 09 12 31.0–.41	30.16N	51.36E	15	3.6L,3.9		

ISC Event type ke.
ISN Error ellipse: s-maj=13.1km s-min=46.2km az=-1.0.
IDC Error ellipse: s-maj=25.5km s-min=18.7km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.1km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=13.8km s-min=4.9km az=38.0.
THR Error ellipse: s-maj=10.7km s-min=2.6km az=-1.0.

ISC	**III**	**17 09 42 28.3–.97**	**29.75N–.09**	**50.47E–.07**	**25**	**3.5b**	**27**	**1-48**
IDC	III	17 09 42 25.6–1.6	29.97N	50.50E	0	3.6,3.6		**¶17196671**
ISCJB	III	17 09 42 27.0–.86	29.72N–.08	50.36E–.07	25	3.5b,3.6		
TEH	III	17 09 42 28.5	29.81N	50.48E	5	3.6L,3.6		
CSEM	III	17 09 42 28.5	29.81N	50.48E	5	3.6L,3.6		

ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=29.4km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.4km az=27.7.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**18 02 17 47.7–.71**	**28.20N–.03**	**56.39E–.06**	**28**	**3.9b**	**56**	**1-89**
IDC	III	18 02 17 41.0–1.4	27.81N	56.61E	0	3.9,3.8		**¶17196916**
THR	III	18 02 17 46.4–1.1	28.21N	56.44E	31–9	3.7L,3.8		
ISCJB	III	18 02 17 47.5–.39	28.22N–.03	56.41E–.06	28	3.7b,3.3s		
CSEM	III	18 02 17 47.2–.16	28.22N	56.38E	8	3.7L,3.3s		
TEH	III	18 02 17 49.1	28.17N	56.37E	22	3.7L,3.3s		
OMAN	III	18 02 17 56.8–99	27.66N	56.17E	22	3.7L,3.3s		
DSN	III	18 02 18 05.0–99	27.03N	56.39E	22	3.2L,3.3s		

ISC Event type ke.
IDC Error ellipse: s-maj=29.6km s-min=19.6km az=169.0.
THR Error ellipse: s-maj=4.7km s-min=8.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.6km az=175.8.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.3km az=82.0.
OMAN Error ellipse: s-maj=96.6km s-min=10.2km az=238.0.
DSN Error ellipse: s-maj=263.2km s-min=8.2km az=14.0.

ISC	**III**	**18 02 26 08.0–.41**	**28.10N–.03**	**56.43E–.04**	**28**	**4.1b**	**169**	**1-91**
DSN	III	18 02 25 30.4–99	30.98N	57.42E	22	5.6L		**¶16427654**
CSEM	III	18 02 26 07.8–.17	28.23N	56.43E	15	4.2b		
ISCJB	III	18 02 26 07.1–.26	28.14N–.03	56.35E–.04	28	4.1b		
THR	III	18 02 26 07.9–.97	28.25N	56.44E	30–7	4.2L		
NEIC	III	18 02 26 08.6	28.20N	56.42E	40	4.0b		
IDC	III	18 02 26 11.0–2.0	28.09N	56.35E	53–20	4.1,4.0L		
OMAN	III	18 02 26 11.0	28.12N	56.37E	33	4.1,4.0L		
TEH	III	18 02 26 11.0	28.12N	56.37E	33	4.2L,4.0L		

ISC Event type ke.
DSN Error ellipse: s-maj=581.0km s-min=13.5km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.5km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=159.6.
THR Error ellipse: s-maj=4.0km s-min=6.3km az=-1.0.
NEIC Event type se. After THR.
IDC Error ellipse: s-maj=12.4km s-min=11.3km az=15.0.
OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.

ISC	**III**	**18 20 04 51.2–.69**	**28.24N–.03**	**56.39E–.06**	**28**	**3.6b**	**34**	**1-60**
IDC	III	18 20 04 46.7–1.2	28.20N	56.43E	0	3.7,3.7		**¶17197076**
CSEM	III	18 20 04 50.8–.18	28.27N	56.35E	8	3.3L,3.7		
ISCJB	III	18 20 04 51.0–.41	28.25N–.03	56.41E–.07	28	3.6b,3.7		
TEH	III	18 20 04 52.7	28.21N	56.38E	25	3.3L,3.7		
DSN	III	18 20 05 10.1–99	26.95N	56.34E	22	2.7L,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=26.1km s-min=21.5km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=3.8km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.6km az=8.7.
DSN Error ellipse: s-maj=240.1km s-min=7.4km az=12.0.

ISC	**III**	**18 21 49 54.7–.29**	**28.17N–.03**	**56.38E–.03**	**28**	**4.7b,3.6s**	**474**	**1-120**
BJI	III	18 21 49 48.6	28.17N	56.09E	14	4.8b,4.7b		**¶16337766**
IDC	III	18 21 49 50.8–.47	28.25N	56.42E	0	4.4,4.4		
ISCJB	III	18 21 49 53.4–.16	28.23N–.02	56.39E–.02	28	4.6b,3.8s		
CSEM	III	18 21 49 53.4–.10	28.26N	56.42E	15	4.7b,3.8s		
THR	III	18 21 49 54.2–1.8	28.24N	56.49E	28–15	4.4L,3.8s		
MOS	III	18 21 49 54.3–1.0	28.29N	56.41E	33	4.8b,3.8s		
NEIC	III	18 21 49 56.0	28.15N	56.38E	16	4.7b,4.4L		
TEH	III	18 21 49 56.0	28.15N	56.38E	16	4.4L,4.4L		
OMAN	III	18 21 49 56.0	28.15N	56.38E	17	4.4L,4.4L		
DSN	III	18 21 49 57.6–.03	28.09N	56.69E	22	4.6L,4.4L		

ISC Event type fe.
IDC Error ellipse: s-maj=12.4km s-min=8.7km az=171.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.9km az=43.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=81.0.
THR Error ellipse: s-maj=6.5km s-min=13.7km az=-1.0.
MOS Error ellipse: s-maj=6.7km s-min=4.6km az=99.6.
NEIC Event type fe. Felt at Abu Dhabi, United Arab Emirates. After TEH.

OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.
DSN Error ellipse: s-maj=2.4km s-min=0.9km az=276.0.
ISC III 20 21 53 06.9–1.2 29.90N–.04 51.20E–.03 5–7 4.5b,3.9s 345 1-94
ISN III 20 21 52 59.1–1.9 29.22N 51.33E 0–292 4.0L,3.9s ¶16341356
BJI III 20 21 53 03.1 29.96N 50.72E 10 4.7b,4.5s
ISCJB III 20 21 53 05.3–.75 29.91N–.02 51.21E–.02 4–5 4.3b,3.9s
IDC III 20 21 53 05.3–.67 29.95N 51.18E 0 4.1,4.0
OMAN III 20 21 53 07.8 29.92N 51.23E 5 4.1,4.0
TEH III 20 21 53 07.8 29.92N 51.23E 5 4.0L,4.0
THR III 20 21 53 07.1–.49 29.99N 51.20E 15–5 4.0L,4.0
CSEM III 20 21 53 07.9–.12 29.94N 51.24E 10 4.5b,4.0
NEIC III 20 21 53 07.8 29.92N 51.23E 5 4.5b,4.0L
MOS III 20 21 53 08.9–1.4 29.84N 51.28E 33 4.6b,4.0L
DSN III 20 21 53 19.1–1.9 29.38N 51.87E 11 4.6L,4.0L
ISC Event type ke.
ISN Error ellipse: s-maj=208.3km s-min=339.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=33.4.
IDC Error ellipse: s-maj=15.1km s-min=12.8km az=168.0.
OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.
THR Error ellipse: s-maj=1.7km s-min=4.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=36.0.
NEIC Event type se. After TEH.
MOS Error ellipse: s-maj=9.0km s-min=4.9km az=115.1.
DSN Error ellipse: s-maj=21.1km s-min=13.5km az=135.0.
ISC III 21 06 02 22.5–.62 27.97N–.04 59.43E–.05 10 3.8b 58 2-90
IDC III 21 06 02 20.4–.83 27.88N 59.23E 0 3.9,3.8 ¶16479924
ISCJB III 21 06 02 21.1–.39 27.96N–.03 59.44E–.04 10 3.6b,3.8
CSEM III 21 06 02 22.3–.26 27.94N 59.42E 10 4.2L,3.8
THR III 21 06 02 22.3–.84 27.93N 59.36E 18–12 4.1L,3.8
NEIC III 21 06 02 25.3 28.22N 59.39E 6 4.3,3.8
TEH III 21 06 02 25.3 28.22N 59.39E 6 4.3L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=18.0km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=26.9.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=7.0km az=64.0.
THR Error ellipse: s-maj=3.0km s-min=9.9km az=-1.0.
NEIC Event type se. After TEH.
ISC III 21 14 59 12.7–.98 29.05N–.03 57.22E–.06 10 40 1-5
ISCJB III 21 14 59 12.3–.58 28.98N–.03 57.11E–.07 10 ¶601847497
OMAN III 21 14 59 13.7 29.01N 57.38E 34
TEH III 21 14 59 13.7 29.01N 57.38E 34 3.2L
CSEM III 21 14 59 14.8–.33 29.11N 57.23E 30 3.2L
DSN III 21 14 59 45.1–6.0 26.86N 56.58E 21–15 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.3km az=179.6.
OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.0km az=96.0.
DSN Error ellipse: s-maj=52.9km s-min=23.9km az=34.0.
ISC III 22 00 44 37.7–2.4 28.06N–.09 51.6E–.20 16 20 2-5
ISCJB III 22 00 44 36.0–2.2 28.0N–.10 51.6E–.30 16 ¶601668896
CSEM III 22 00 44 38.3–1.1 28.08N 51.66E 19–6 2.8L
TEH III 22 00 44 39.3 28.07N 51.62E 28 2.8L
DSN III 22 00 45 11.2–99 26.71N 54.01E 15 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.1km s-min=8.4km az=159.9.
CSEM Event type ke. Error ellipse: s-maj=18.8km s-min=4.4km az=69.0.
DSN Error ellipse: s-maj=45.1km s-min=3.8km az=309.0.
ISC III 22 02 32 09.0–.47 28.00N–.05 59.46E–.04 10 3.9b,3.4s 151 2-90
IDC III 22 02 32 06.9–.80 27.95N 59.34E 0 3.9,3.8 ¶16450715
THR III 22 02 32 08.9–.31 27.90N 59.42E 15 4.1L,3.8
ISCJB III 22 02 32 08.0–.30 28.05N–.03 59.44E–.03 10 3.9b,3.2s
CSEM III 22 02 32 09.4–.25 28.05N 59.44E 10 4.2b,3.2s
MOS III 22 02 32 10.4–1.4 27.97N 59.36E 33 4.5b,3.2s
NEIC III 22 02 32 11.2 28.27N 59.15E 14 4.3,4.2L
OMAN III 22 02 32 12.0 28.20N 59.29E 10 4.3,4.2L
TEH III 22 02 32 12.0 28.20N 59.29E 10 4.3L,4.2L
DSN III 22 02 32 50.6–10 26.25N 56.91E 15 2.5L,4.2L
ISC Event type ke.
IDC Error ellipse: s-maj=17.1km s-min=15.5km az=152.0.
THR Error ellipse: s-maj=1.8km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=140.9.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.4km az=134.0.
MOS Error ellipse: s-maj=12.4km s-min=7.6km az=85.7.
NEIC Event type se. After THR.
OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.
DSN Error ellipse: s-maj=7.4km s-min=2.6km az=31.0.
TEH III 22 02 55 23.8 28.11N 59.48E 5 3.6L
CSEM III 22 02 55 22.1–.39 28.04N 59.52E 2 3.4L ¶602003381
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=7.0km az=120.0.
ISC III 22 23 56 26.6–.93 27.50N–.04 56.25E–.04 11–7 36 0-7
DSN III 22 23 56 24.9–1.3 27.51N 56.54E 11 2.9L ¶601668898
TEH III 22 23 56 25.2 27.54N 56.19E 11 3.0L
ISCJB III 22 23 56 26.4–.54 27.50N–.04 56.19E–.05 14–4 3.0L
CSEM III 22 23 56 27.1–.19 27.44N 56.21E 10 3.0L
ISC Event type ke.
DSN Error ellipse: s-maj=45.9km s-min=10.8km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.0km az=162.5.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=61.0.
ISC III 26 17 59 01.4–1.0 28.14N–.05 59.13E–.05 10 24 2-7
ISCJB III 26 17 58 59.6–.83 28.17N–.07 59.13E–.06 10 ¶602003552
THR III 26 17 59 00.6–.42 28.05N 59.08E 18–16 3.6L
CSEM III 26 17 59 01.2–.50 28.16N 59.17E 15 3.7L
TEH III 26 17 59 06.0 28.59N 59.04E 10 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=6.5km az=148.0.
THR Error ellipse: s-maj=5.7km s-min=3.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=14.9km s-min=10.8km az=149.0.
ISC III 28 01 13 06.7–1.1 27.49N–.04 56.16E–.07 15 20 0-4
TEH III 28 01 13 11.6 27.39N 56.37E 18 3.1L ¶601668935
CSEM III 28 01 13 12.3–.21 27.33N 56.33E 2 3.1L
OMAN III 28 01 13 13.7–1.2 27.25N 56.47E 10 3.1L
DSN III 28 01 13 21.9–10 26.74N 56.41E 17 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.7km az=108.0.
OMAN Error ellipse: s-maj=39.5km s-min=7.4km az=103.0.
DSN Error ellipse: s-maj=7.2km s-min=6.0km az=39.0.
ISC III 29 02 47 55.5–.89 27.27N–.04 56.45E–.03 17–6 3.2b 73 0-53
IDC III 29 02 47 53.8–2.7 27.29N 56.09E 0 3.9L,3.3 ¶17199018
OMAN III 29 02 47 54.2 27.30N 56.44E 24 3.9L,3.3
TEH III 29 02 47 54.2 27.30N 56.44E 24 3.3L,3.3
ISCJB III 29 02 47 55.5–.51 27.32N–.03 56.37E–.05 19–5 3.1b,3.3
CSEM III 29 02 47 55.6–.14 27.29N 56.45E 12 3.3L,3.3
DSN III 29 02 47 57.0–1.0 27.22N 56.54E 17 3.7L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=58.7km s-min=26.9km az=154.0.
OMAN Error ellipse: s-maj=1.0km s-min=1.0km az=1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.4km az=3.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.2km az=85.0.
DSN Error ellipse: s-maj=36.9km s-min=8.4km az=110.0.
ISC IV 01 02 03 18.9–.77 27.33N–.04 55.69E–.04 15 3.4b 65 0-52
TEH IV 01 02 03 15.9 27.35N 55.57E 6 3.3L ¶17199376
OMAN IV 01 02 03 15.9 27.35N 55.57E 6 3.3L
ISCJB IV 01 02 03 18.6–.39 27.38N–.04 55.68E–.03 15 3.4b
IDC IV 01 02 03 19.4–4.3 28.01N 55.46E 0 3.4,3.4
CSEM IV 01 02 03 19.2–.20 27.36N 55.70E 10 3.3L,3.4
DSN IV 01 02 03 21.5–.69 27.23N 55.99E 13 3.0L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=26.5.
IDC Error ellipse: s-maj=198.6km s-min=26.2km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=39.0.
DSN Error ellipse: s-maj=19.7km s-min=4.8km az=77.0.

ISC IV 05 05 32 48.2–.63 27.10N–.04 62.33E–.06 10 4.0b 85 2-91
ISCJB IV 05 05 32 46.7–.53 27.15N–.05 62.50E–.06 10 4.0b ¶602586192
IDC IV 05 05 32 47.1–1.1 27.25N 62.35E 0 4.1,4.0
CSEM IV 05 05 32 49.2–1.1 27.09N 62.66E 20 3.7L,4.0
TEH IV 05 05 32 54.3 27.18N 62.43E 36 3.9L,4.0
THR IV 05 05 32 55.9–.57 27.06N 61.83E 14–12 3.8L,4.0
OMAN IV 05 05 32 57.2 27.49N 62.28E 25 3.8L,4.0
DSN IV 05 05 33 04.9–1.7 26.38N 61.54E 15 3.9L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.0km az=42.8.
IDC Error ellipse: s-maj=21.5km s-min=17.8km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=28.3km s-min=9.3km az=111.0.
THR Error ellipse: s-maj=4.0km s-min=12.1km az=-1.0.
DSN Error ellipse: s-maj=36.8km s-min=12.6km az=175.0.
ISC IV 11 02 12 52.0–1.3 28.35N–.07 58.82E–.04 10 30 2-5
THR IV 11 02 12 50.6–.68 28.20N 58.92E 14–11 3.7L ¶602003946
TEH IV 11 02 12 50.7 28.24N 58.96E 2 3.7L
ISCJB IV 11 02 12 51.6–.94 28.37N–.07 58.91E–.05 10 3.7L
CSEM IV 11 02 12 51.9–.49 28.34N 58.84E 2 3.7L
ISC Event type ke.
THR Error ellipse: s-maj=6.4km s-min=2.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.7km az=159.9.
CSEM Event type ke. Error ellipse: s-maj=13.4km s-min=7.3km az=150.0.
ISC IV 11 12 02 14.5–.61 28.09N–.04 58.88E–.05 10 3.6b 48 2-90
IDC IV 11 12 02 13.6–1.0 28.00N 58.74E 0 3.9,3.8L ¶16587469
CSEM IV 11 12 02 14.6–.31 28.08N 59.09E 2 4.2L,3.8L
ISCJB IV 11 12 02 14.5–.47 28.09N–.05 59.11E–.06 10 3.6b,3.8L
THR IV 11 12 02 15.3–.65 27.89N 58.91E 15 4.1L,3.8L
TEH IV 11 12 02 20.4 28.29N 58.87E 30 4.2L,3.8L
NEIC IV 11 12 02 20.4 28.29N 58.87E 30 4.2,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=27.8km s-min=18.7km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=8.9km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.7km az=30.7.
THR Error ellipse: s-maj=4.0km s-min=2.8km az=-1.0.
NEIC Event type se. After TEH.
TEH IV 11 16 47 59.3 28.17N 58.96E 10 3.6L
CSEM IV 11 16 47 57.6–.62 28.06N 59.14E 10 3.3L ¶602003953
CSEM Event type ke. Error ellipse: s-maj=19.1km s-min=15.8km az=92.0.
ISC IV 13 02 07 23.5–.67 28.35N–.04 53.52E–.03 10 3.7b 58 0-89
ISCJB IV 13 02 07 24.7–.46 28.51N–.04 53.62E–.04 10 3.7b ¶17200840
THR IV 13 02 07 24.9–.68 28.44N 53.68E 15–9 3.5L
CSEM IV 13 02 07 26.7–.28 28.46N 53.57E 20 3.4L
TEH IV 13 02 07 28.5 28.55N 53.60E 24 3.4L
IDC IV 13 02 07 29.7–3.4 28.24N 53.59E 68–39 3.8,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=16.3.
THR Error ellipse: s-maj=8.4km s-min=4.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.4km az=21.0.
IDC Error ellipse: s-maj=23.1km s-min=19.5km az=173.0.
ISC IV 13 03 37 10.0–.42 28.02N–.04 59.04E–.03 10 4.1b,3.9s 156 2-99
ISCJB IV 13 03 37 08.7–.23 28.03N–.02 59.07E–.03 10 4.0b,3.9s ¶602586574
BJI IV 13 03 37 08.2 28.20N 59.00E 6 4.6b,4.4s
TEH IV 13 03 37 08.2 28.21N 58.99E 6 4.6L,4.4s
OMAN IV 13 03 37 09.7–4.3 27.95N 58.88E 2–28 4.6L,4.4s
IDC IV 13 03 37 09.2–.69 27.99N 59.07E 0 4.2,4.1
THR IV 13 03 37 09.5–.71 27.98N 58.97E 18–17 4.5L,4.1
NEIC IV 13 03 37 09.5 27.99N 58.98E 18 4.6,4.5L
CSEM IV 13 03 37 10.0–.16 28.03N 59.08E 10 4.4b,4.5L
DSN IV 13 03 37 16.7–.10 27.16N 59.17E 11 4.6L,4.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=31.6.
OMAN Error ellipse: s-maj=32.8km s-min=6.9km az=124.0.
IDC Error ellipse: s-maj=15.3km s-min=13.2km az=164.0.
THR Error ellipse: s-maj=5.4km s-min=5.9km az=-1.0.
NEIC Event type se. After THR.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=114.0.
DSN Error ellipse: s-maj=10.1km s-min=3.6km az=334.0.
ISC IV 13 03 52 32.9–.80 28.07N–.05 58.88E–.04 10 3.6b 36 2-55
TEH IV 13 03 52 31.6 28.23N 59.03E 6 4.0L ¶17200852
IDC IV 13 03 52 31.3–3.0 27.98N 58.78E 0 3.6,3.6b
CSEM IV 13 03 52 33.4–.37 28.11N 59.16E 10 4.0L,3.6b
THR IV 13 03 52 33.8–1.0 27.89N 58.96E 15 3.8L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=73.2km s-min=25.3km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.8km az=116.0.
THR Error ellipse: s-maj=6.4km s-min=4.5km az=-1.0.
ISC IV 13 07 10 58.7–.95 28.67N–.03 56.63E–.09 10 22 1-53
IDC IV 13 07 10 31.8–3.4 27.85N 60.11E 0 3.3,3.3 ¶602003972
CSEM IV 13 07 10 57.7 28.67N 56.57E 14 2.9L,3.3
TEH IV 13 07 10 57.7 28.67N 56.57E 14 2.9L,3.3
ISCJB IV 13 07 10 59.2–.62 28.63N–.04 56.6E–.20 10 3.4b,3.3
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 05 26 01.2–.95 26.93N–.03 55.91E–.05 14 37 1-6
ISCJB IV 15 05 26 01.3–.49 26.96N–.03 55.93E–.05 14 ¶601669023
CSEM IV 15 05 26 01.2–.18 26.93N 55.91E 5 3.1L
DSN IV 15 05 26 01.9–1.3 26.91N 56.13E 10 3.1L
TEH IV 15 05 26 02.8 27.01N 55.88E 3 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.4km az=7.5.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=94.0.
DSN Error ellipse: s-maj=24.5km s-min=4.4km az=67.0.
ISC IV 17 20 36 19.7–1.0 27.71N–.04 54.67E–.04 58–11 3.5b 79 1-90
IDC IV 17 20 36 12.6–.95 27.73N 54.54E 0 3.8,3.7 ¶17201355
THR IV 17 20 36 16.3–.35 27.75N 54.68E 17–3 3.7L,3.7
CSEM IV 17 20 36 16.7–.18 27.76N 54.64E 10 3.7L,3.7
OMAN IV 17 20 36 17.0 27.66N 54.60E 17 3.7L,3.7
TEH IV 17 20 36 17.0 27.66N 54.60E 17 3.7L,3.7
ISCJB IV 17 20 36 18.2–.39 27.74N–.03 54.62E–.05 57–6 3.6b,3.5s
DSN IV 17 20 36 21.8–1.4 27.34N 54.63E 10 3.5L,3.5s
ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=17.2km az=144.0.
THR Error ellipse: s-maj=2.0km s-min=1.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=3.9km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.5km az=153.2.
DSN Error ellipse: s-maj=17.4km s-min=9.6km az=33.0.
ISC IV 20 16 20 30.5–.83 26.81N–.03 55.79E–.04 14 47 1-7
DSN IV 20 16 20 29.8–1.8 26.92N 56.00E 10 3.3L ¶601669046
OMAN IV 20 16 20 29.7 26.69N 55.81E 5 3.3L
ISCJB IV 20 16 20 30.6–.48 26.88N–.03 55.82E–.05 14 3.3L
TEH IV 20 16 20 31.3 26.76N 55.84E 18 3.2L
CSEM IV 20 16 20 32.1–.22 26.86N 55.95E 20–0 2.9L
ISC Event type ke.
DSN Error ellipse: s-maj=33.2km s-min=7.2km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=3.8.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=87.0.
ISC IV 25 13 49 26.0–.93 29.68N–.04 51.48E–.03 28–6 4.0b 223 0-95
ISN IV 25 13 49 19.1–1.2 29.93N 51.62E 0–130 4.5L ¶16456804
BJI IV 25 13 49 21.8 29.35N 51.20E 35 4.7b,4.4b
MOS IV 25 13 49 23.7–1.0 29.55N 51.46E 27 4.3b,4.4b
CSEM IV 25 13 49 24.5–.17 29.64N 51.47E 15 4.2b,4.4b
THR IV 25 13 49 24.5–.45 29.75N 51.58E 18–8 3.9L,4.4b
TEH IV 25 13 49 25.5 29.73N 51.40E 6 3.9L,4.4b
NEIC IV 25 13 49 25.0 29.73N 51.40E 6 4.4b,3.9
IDC IV 25 13 49 26.5–3.1 29.65N 51.46E 32–22 4.0,3.9
ISC Event type ke.
ISN Error ellipse: s-maj=79.1km s-min=164.0km az=-1.0.
MOS Error ellipse: s-maj=9.5km s-min=7.0km az=107.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=13.0.
THR Error ellipse: s-maj=4.1km s-min=3.3km az=-1.0.

NEIC Event type se. After TEH.
IDC Error ellipse: s-maj=18.2km s-min=11.4km az=176.0.
ISC IV 26 01 43 26.2–.62 26.67N–.03 55.46E–.04 10 3.5b 63 1-52
IDC IV 26 01 43 24.1–1.4 26.71N 55.43E 0 3.7,3.6 ¶17202100
DSN IV 26 01 43 25.2–.86 26.94N 55.76E 15 3.5L,3.6
ISCJB IV 26 01 43 25.8–.39 26.70N–.03 55.36E–.04 10 3.5b,3.6
OMAN IV 26 01 43 27.0 26.74N 55.46E 17 3.5b,3.6
TEH IV 26 01 43 27.0 26.74N 55.46E 17 3.2L,3.6
CSEM IV 26 01 43 28.1–.24 26.68N 55.47E 15 3.2L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=22.2km az=6.0.
DSN Error ellipse: s-maj=9.3km s-min=5.6km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=178.7.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.6km az=90.0.
ISC IV 27 07 21 44.5–.75 28.39N–.03 55.82E–.05 10 3.4b 25 1-89
IDC IV 27 07 21 40.4–2.7 27.92N 55.83E 0 3.6,3.6 ¶17202214
CSEM IV 27 07 21 43.8 28.30N 55.68E 6 3.5L,3.6
TEH IV 27 07 21 43.8 28.30N 55.68E 6 3.5L,3.6
ISCJB IV 27 07 21 44.4–.60 28.38N–.05 55.83E–.08 10 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 27 12 01 28.2–.96 27.98N–.07 52.47E–.07 15 3.8b 31 2-89
ISCJB IV 27 12 01 26.6–.66 27.97N–.05 52.53E–.07 15 3.8b ¶17202234
IDC IV 27 12 01 26.6–1.5 28.15N 52.56E 0 3.9,3.8b
CSEM IV 27 12 01 31.9 28.13N 52.44E 29 3.3L,3.8b
TEH IV 27 12 01 31.9 28.13N 52.44E 29 3.3L,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.4km az=162.8.
IDC Error ellipse: s-maj=32.8km s-min=25.6km az=1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TEH V 02 05 49 45.7 28.35N 59.02E 5 3.9L
CSEM V 02 05 49 45.7 28.35N 59.02E 5 3.9L ¶602004164
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 02 19 40 08.1–.88 28.15N–.03 56.48E–.06 28 3.2b 29 1-53
IDC V 02 19 40 02.8–2.8 27.94N 56.53E 0 3.6,3.6 ¶17202633
ISCJB V 02 19 40 08.9–.52 28.11N–.04 56.29E–.07 28 3.4b,2.5s
CSEM V 02 19 40 08.9–.33 28.13N 56.36E 20 3.0L,2.5s
TEH V 02 19 40 09.9 28.07N 56.35E 25 3.0L,2.5s
ISC Event type ke.
IDC Error ellipse: s-maj=78.6km s-min=30.4km az=157.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=179.8.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=7.4km az=87.0.
ISC V 03 21 20 20.2–.85 27.75N–.06 53.92E–.05 23 47 1-42
IDC V 03 21 20 17.0–2.3 27.88N 53.95E 0 3.6,3.6 ¶602587361
ISCJB V 03 21 20 18.8–.48 27.81N–.05 53.89E–.07 23 3.7b,3.4s
CSEM V 03 21 20 18.2–.29 27.79N 53.94E 2 3.4L,3.4s
TEH V 03 21 20 20.6 27.74N 53.92E 27 3.3L,3.4s
OMAN V 03 21 20 20.6 27.74N 53.92E 27 3.3L,3.4s
DSN V 03 21 20 21.3–2.2 27.62N 53.91E 15 3.4L,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=56.2km s-min=29.5km az=41.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.7km az=144.9.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=5.8km az=54.0.
DSN Error ellipse: s-maj=30.0km s-min=12.9km az=11.0.
ISC V 07 01 01 55.1–.00 26.93N–.04 55.92E–.08 14 37 1-7
OMAN V 07 01 01 53.5 26.93N 55.84E 12 ¶601669121
TEH V 07 01 01 53.5 26.93N 55.84E 12 2.9L
ISCJB V 07 01 01 55.0–.52 26.98N–.03 55.90E–.06 14 2.9L
CSEM V 07 01 01 54.7–.24 26.93N 55.90E 2 2.9L
DSN V 07 01 01 55.8–1.2 26.96N 56.20E 15 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.6km az=173.8.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=78.0.
DSN Error ellipse: s-maj=37.0km s-min=7.8km az=86.0.
ISC V 07 09 44 52.1–.92 28.25N–.07 54.00E–.05 24 19 1-89
IDC V 07 09 44 47.1–1.7 28.19N 54.04E 0 3.6L,3.4 ¶17202980
ISCJB V 07 09 44 50.2–.75 28.22N–.07 54.07E–.06 24 3.2b,3.4
CSEM V 07 09 44 52.1–.93 28.29N 54.07E 20–0 2.7L,3.4
TEH V 07 09 45 03.0 29.32N 53.97E 4 2.7L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=55.8km s-min=32.2km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.2km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=29.3km s-min=18.4km az=20.0.
ISC V 08 22 17 37.7–.55 29.78N–.03 50.95E–.03 30–3 4.9b,3.8s 934 1-125
OMAN V 08 22 17 32.8 29.81N 50.88E 8 4.9b,3.8s ¶16500451
TEH V 08 22 17 32.8 29.81N 50.88E 8 4.8L,3.8s
MOS V 08 22 17 33.1–1.1 29.77N 50.88E 10 4.9b,3.8s
ISCJB V 08 22 17 34.8–.62 29.72N–.02 50.92E–.02 24–4 4.9b,3.9s
CSEM V 08 22 17 34.8–.08 29.76N 50.91E 10 5.0b,3.9s
DSN V 08 22 17 35.1–.45 29.63N 50.74E 10 4.6b,3.9s
IDC V 08 22 17 37.1–2.8 29.82N 50.94E 25–18 4.6,4.6
NEIC V 08 22 17 38.0 29.84N 51.00E 42 4.9b,4.6
THR V 08 22 17 38.0–.32 29.84N 51.00E 42–3 4.9L,4.6
ISN V 08 22 17 46.6–1.1 29.67N 50.48E 0–140 4.9L,4.6
ISC Event type fe.
MOS Error ellipse: s-maj=5.5km s-min=3.3km az=109.9.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=24.3.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=19.0.
DSN Error ellipse: s-maj=10.6km s-min=3.5km az=62.0.
IDC Error ellipse: s-maj=12.0km s-min=9.6km az=167.0.
NEIC Event type fe. Felt at Shiraz. After THR.
THR Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
ISN Error ellipse: s-maj=100.1km s-min=165.6km az=-1.0.
ISC V 12 18 45 55.8–.64 29.01N–.02 56.75E–.05 10 3.5b 88 1-89
IDC V 12 18 45 54.1–1.3 29.02N 56.54E 0 4.5,4.5s ¶602587377
ISCJB V 12 18 45 55.9–.33 28.99N–.02 56.82E–.05 10 4.5s,3.4b
THR V 12 18 45 56.7–.40 29.02N 56.82E 31–3 3.5L,3.4b
CSEM V 12 18 45 56.8–.20 29.00N 56.80E 2 3.5L,3.4b
OMAN V 12 18 45 58.5 29.07N 56.80E 5 3.5L,3.4b
DSN V 12 18 45 58.4–.12 28.92N 56.65E 10 3.5L,3.4b
TEH V 12 18 45 58.5 29.07N 56.80E 5 3.5L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=22.2km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.1km az=5.4.
THR Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.0km az=92.0.
DSN Error ellipse: s-maj=18.8km s-min=4.8km az=272.0.
ISC V 14 11 39 26.7–.98 29.60N–.03 57.47E–.04 10 46 0-5
ISCJB V 14 11 39 27.0–.47 29.67N–.04 57.41E–.06 10 ¶601669173
CSEM V 14 11 39 26.6–.17 29.69N 57.45E 2 3.8L
TEH V 14 11 39 27.5 29.67N 57.48E 7 3.8L
THR V 14 11 39 27.5–.50 29.56N 57.34E 11–6 3.7L
DSN V 14 11 39 32.0–1.3 29.49N 56.80E 15 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.0km az=8.5.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=92.0.
THR Error ellipse: s-maj=3.4km s-min=3.7km az=-1.0.
DSN Error ellipse: s-maj=100.3km s-min=11.1km az=100.0.
ISC V 14 18 45 33.2–1.3 27.38N–.04 57.75E–.05 10 43 1-6
ISCJB V 14 18 45 32.1–.61 27.39N–.04 57.80E–.05 10 ¶601669174
OMAN V 14 18 45 33.2 27.43N 57.73E 24
TEH V 14 18 45 33.2 27.43N 57.73E 24 3.3L
DSN V 14 18 45 35.0–1.4 27.66N 57.03E 15 3.0L
CSEM V 14 18 45 34.1–.36 27.39N 57.78E 20 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.8km az=24.2.
DSN Error ellipse: s-maj=47.5km s-min=9.4km az=123.0.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=6.7km az=104.0.
TEH V 16 18 25 00.3 28.59N 58.91E 18 4.0L
THR V 16 18 24 56.4–.85 28.36N 58.81E 14–8 3.6L ¶602004297
CSEM V 16 18 24 57.9–.71 28.56N 58.82E 2 4.0L
THR Error ellipse: s-maj=4.0km s-min=3.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=12.3km az=160.0.
ISC V 24 20 26 08.2–.56 27.75N–.05 54.27E–.04 17 3.7b 62 1-92
IDC V 24 20 26 05.5–.97 27.83N 54.22E 0 3.8,3.7 ¶17204402
ISCJB V 24 20 26 07.2–.40 27.75N–.04 54.20E–.07 17 3.7b,3.7
OMAN V 24 20 26 10.4 27.70N 54.27E 28 3.7b,3.7
CSEM V 24 20 26 10.9–.20 27.78N 54.28E 30 3.3L,3.7
TEH V 24 20 26 10.4 27.70N 54.27E 28 3.4L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=19.1km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.0km az=148.8.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=3.9km az=57.0.
TEH V 31 12 28 20.0 28.27N 59.13E 18 3.7L
CSEM V 31 12 28 21.0–.54 28.35N 58.97E 15 3.4L ¶602004434
CSEM Event type ke. Error ellipse: s-maj=17.6km s-min=8.3km az=141.0.
ISC V 31 13 45 22.8–1.2 27.87N–.03 57.31E–.07 30 44 1-7
DSN V 31 13 45 17.5–.20 28.23N 57.01E 10 3.7L ¶601669253
THR V 31 13 45 18.9–.41 27.85N 57.54E 14–5 3.5L
OMAN V 31 13 45 18.4–1.1 28.45N 56.51E 39–99 3.5L
CSEM V 31 13 45 22.5–.44 27.82N 57.29E 15 3.2L
ISCJB V 31 13 45 23.5–.77 27.81N–.04 57.25E–.08 30 3.2L
TEH V 31 13 45 24.2 27.79N 57.24E 29 3.2L
ISC Event type ke.
DSN Error ellipse: s-maj=20.3km s-min=4.7km az=295.0.
THR Error ellipse: s-maj=2.8km s-min=9.8km az=-1.0.
OMAN Error ellipse: s-maj=233.3km s-min=20.6km az=272.0.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=5.8km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=5.2km az=11.3.
ISC VI 01 20 45 16.2–.80 28.4N–.10 55.09E–.07 10 3.5b 31 1-52
ISCJB VI 01 20 45 17.2–.66 28.52N–.08 55.09E–.08 10 3.5b ¶17204923
TEH VI 01 20 45 17.2 28.47N 55.05E 25 3.2L
CSEM VI 01 20 45 17.2 28.47N 55.05E 25 3.2L
IDC VI 01 20 45 26.9–14 28.49N 54.92E 106–135 3.7,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=5.8km az=38.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC Error ellipse: s-maj=51.6km s-min=25.5km az=160.0.
ISC VI 02 21 24 29.2–.79 27.43N–.07 52.50E–.07 14 3.6b 66 3-49
TEH VI 02 21 24 24.3 27.22N 52.29E 18 3.3L ¶17205027
ISCJB VI 02 21 24 27.6–.56 27.42N–.04 52.43E–.06 14 3.7b
CSEM VI 02 21 24 30.2–.50 27.46N 52.50E 15 3.8L
IDC VI 02 21 24 32.8–3.2 27.42N 52.51E 44–36 3.7,3.6
OMAN VI 02 21 24 33.0–.04 27.53N 52.76E 18 3.7,3.6
DSN VI 02 21 24 33.3–1.3 27.49N 52.82E 15 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.2km az=141.8.
CSEM Event type ke. Error ellipse: s-maj=14.5km s-min=5.1km az=62.0.
IDC Error ellipse: s-maj=29.9km s-min=19.9km az=175.0.
OMAN Error ellipse: s-maj=11.4km s-min=5.0km az=43.0.
DSN Error ellipse: s-maj=21.2km s-min=7.7km az=5.0.
ISC VI 07 01 22 48.3–.45 27.98N–.03 56.67E–.05 28 4.1b 107 0-90
OMAN VI 07 01 22 47.1–1.1 28.07N 57.09E 24–24 4.1b ¶17205441
ISCJB VI 07 01 22 47.9–.27 28.01N–.02 56.60E–.04 28 4.2b
TEH VI 07 01 22 48.5 27.97N 56.63E 30 3.9L
DSN VI 07 01 22 48.2–99 28.06N 56.76E 19–11 4.0L
CSEM VI 07 01 22 49.7–.13 27.97N 56.66E 20–0 3.9L
THR VI 07 01 22 49.1–.56 28.12N 56.47E 14–6 3.8L
IDC VI 07 01 22 50.6–2.3 27.97N 56.66E 50–23 4.1,3.9
ISC Event type ke.
OMAN Error ellipse: s-maj=26.0km s-min=17.7km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=7.2.
DSN Error ellipse: s-maj=190.6km s-min=7.9km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=2.4km az=93.0.
THR Error ellipse: s-maj=3.2km s-min=6.6km az=-1.0.
IDC Error ellipse: s-maj=13.5km s-min=12.3km az=148.0.
ISC VI 15 01 03 16.1–.38 27.92N–.03 57.75E–.03 10 4.3b 212 1-121
ISCJB VI 15 01 03 14.7–.23 28.02N–.03 57.79E–.03 10 4.3s,4.2b ¶16598349
DSN VI 15 01 03 16.7–19 27.86N 58.31E 36 4.9L,4.2b
THR VI 15 01 03 16.4–.30 28.03N 57.80E 15 4.5L,4.2b
CSEM VI 15 01 03 18.9–.14 27.93N 57.80E 30 4.4b,4.2b
OMAN VI 15 01 03 19.5–11 27.76N 57.86E 33 4.4b,4.2b
IDC VI 15 01 03 20.5–2.5 27.95N 57.71E 48–25 4.6s,4.6
TEH VI 15 01 03 22.2 27.91N 57.62E 31 4.1L,4.6
NEIC VI 15 01 03 22.2 27.91N 57.62E 31 4.3b,4.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=31.0.
DSN Error ellipse: s-maj=10.1km s-min=1.3km az=271.0.
THR Error ellipse: s-maj=1.7km s-min=2.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=105.0.
OMAN Error ellipse: s-maj=7.7km s-min=1.5km az=265.0.
IDC Error ellipse: s-maj=14.1km s-min=12.7km az=164.0.
NEIC Event type se. After TEH.
ISC VI 15 01 04 30.5–3.0 27.8N–.50 57.9E–.30 10 3.9b 6 23-54
ISCJB VI 15 01 04 27.8–2.7 27.6N–.40 58.0E–.30 10 3.8b ¶16730515
IDC VI 15 01 04 29.1–2.9 27.77N 57.86E 0 4.0,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=67.4km s-min=20.7km az=155.3.
IDC Error ellipse: s-maj=74.5km s-min=23.2km az=153.0.
ISC VI 15 01 05 28.8–.28 27.95N–.02 57.66E–.02 33–1 5.3b,5.0s 1865 1-155
ISN VI 15 01 05 19.3–1.4 27.47N 58.25E 5–94 5.3L,5.0s ¶17206144
MOS VI 15 01 05 27.1–.86 27.93N 57.58E 33 5.5b,4.9s
ISCJB VI 15 01 05 27.3–.12 27.89N–.02 57.63E–.01 35 5.3b,4.9s
THR VI 15 01 05 27.3–.75 27.94N 57.75E 18–6 5.7L,4.9s
BJI VI 15 01 05 28.4 28.00N 57.60E 35 5.2b,5.2s
SFS VI 15 01 05 29.0 27.98N 57.57E 40 5.3L,5.2s
CSEM VI 15 01 05 29.0–.08 28.02N 57.70E 33 5.3b,5.0s
GCMT VI 15 01 05 30.7–.10 27.71N 57.56E 41–0 5.5W,5.0s
IDC VI 15 01 05 30.3–1.5 27.99N 57.70E 46–13 5.2,5.1L
OMAN VI 15 01 05 30.9–20 27.87N 57.77E 25–0 5.2,5.1L
NEIC VI 15 01 05 30.7 27.78N 57.77E 34 5.7L,5.4b
TEH VI 15 01 05 30.7 27.78N 57.77E 34 5.3L,5.4b
DSN VI 15 01 05 31.3–.02 27.94N 57.65E 36 6.1L,5.2b
ISC Event type fe.
ISN Error ellipse: s-maj=43.8km s-min=73.0km az=-1.0.
MOS Error ellipse: s-maj=5.7km s-min=3.3km az=121.1.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=7.8.
THR Error ellipse: s-maj=3.1km s-min=4.2km az=-1.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=11.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s109,c196; s113,c226;Duration: 1ŝ3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.70±.02 $M_{\theta\theta}$-1.06±.02; $M_{\phi\phi}$0.35±.02; $M_{r\theta}$1.08±.03; $M_{\theta\phi}$0.98±.02; $M_{\phi r}$0.67±.03; Best double couple: NP1:ϕ_s79.00000°,δ74.00000°,λ47.00000°. NP2:ϕ_s333.00000°,δ45.00000°,λ157.00000°. Principal axes: T 1.9350,Plg44.0000°,Azm308.0000°; N -0.1600,Plg41.0000°,Azm94.0000°; P -1.7730,Plg18.0000°,Azm199.0000° $M_0$1.85400×10^{17}
IDC Error ellipse: s-maj=10.6km s-min=8.6km az=159.0.
OMAN Error ellipse: s-maj=2.6km s-min=1.3km az=273.0.
NEIC Event type fe. Felt at Bandar Abbas and Kahnuj. After TEH.
DSN Error ellipse: s-maj=1.9km s-min=0.7km az=290.0.
ISC VI 15 01 10 50.6–.75 27.84N–.05 57.92E–.05 10 4.2b 44 1-54
IDC VI 15 01 10 48.6–1.6 27.94N 57.66E 0 4.2,4.1 ¶16598351
ISCJB VI 15 01 10 50.6–.63 27.72N–.05 58.00E–.05 10 4.2b,4.1
THR VI 15 01 10 51.1–.30 27.97N 57.78E 15 4.3L,4.1
CSEM VI 15 01 10 52.4–.59 27.84N 57.96E 20 3.9L,4.1
TEH VI 15 01 10 54.6 27.79N 57.88E 31 3.9L,4.1
NEIC VI 15 01 10 54.6 27.79N 57.88E 31 4.3L,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=35.3km s-min=28.6km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.0km az=34.7.
THR Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.

CSEM Event type ke. Error ellipse: s-maj=18.5km s-min=13.7km az=116.0.
NEIC Event type se. After TEH.

ISC	**VI**	**15 01 12 46.2–.50**	**28.01N–.04**	**57.65E–.05**	**30**	**4.2b**	**68**	**1-90**
DSN	VI	15 01 12 43.2–.18	27.97N	58.30E	36	4.7L		¶16598352
ISCJB	VI	15 01 12 44.7–.34	28.02N–.04	57.76E–.06	30	4.2b		
CSEM	VI	15 01 12 46.3–.23	27.95N	57.84E	30	4.2L		
IDC	VI	15 01 12 47.7–2.8	27.97N	57.68E	45–29	4.2,4.0		
OMAN	VI	15 01 12 49.0–99	27.76N	57.79E	30	4.2,4.0		
NEIC	VI	15 01 12 50.3	27.85N	57.62E	30	4.2L,4.2		
THR	VI	15 01 12 50.1–.30	28.13N	57.27E	15	4.2L,4.2		
TEH	VI	15 01 12 50.3	27.85N	57.62E	30	4.2L,4.2		

ISC Event type ke.
DSN Error ellipse: s-maj=11.9km s-min=4.7km az=325.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.3km az=29.9.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=6.3km az=109.0.
IDC Error ellipse: s-maj=17.8km s-min=14.9km az=180.0.
OMAN Error ellipse: s-maj=131.9km s-min=12.1km az=15.0.
NEIC Event type se. After TEH.
THR Error ellipse: s-maj=1.9km s-min=2.4km az=-1.0.

ISC	**VI**	**15 01 15 14.1–.73**	**27.86N–.05**	**57.67E–.06**	**30**	**3.8b**	**48**	**1-54**
ISCJB	VI	15 01 15 12.9–.57	27.81N–.05	57.85E–.07	30	3.8b		¶16598353
CSEM	VI	15 01 15 14.8–.69	28.02N	57.53E	20	4.0L		
IDC	VI	15 01 15 15.3–2.7	27.83N	57.47E	43–32	4.0,3.8		
NEIC	VI	15 01 15 17.4	27.93N	57.53E	32	4.1L,4.0		
THR	VI	15 01 15 17.4–.30	28.13N	57.21E	15	4.1L,4.0		
TEH	VI	15 01 15 17.4	27.93N	57.53E	32	4.0L,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.3km az=16.9.
CSEM Event type ke. Error ellipse: s-maj=25.8km s-min=11.8km az=123.0.
IDC Error ellipse: s-maj=28.4km s-min=19.7km az=133.0.
NEIC Event type se. After TEH.
THR Error ellipse: s-maj=1.9km s-min=2.5km az=-1.0.

ISC	**VI**	**15 02 00 54.0–.53**	**27.95N–.03**	**57.61E–.04**	**30**	**3.9b**	**119**	**1-88**
DSN	VI	15 02 00 51.8–1.8	28.17N	57.93E	36	4.4L		¶16598356
ISCJB	VI	15 02 00 52.6–.38	28.00N–.03	57.81E–.05	30	3.8b		
CSEM	VI	15 02 00 54.3–.27	27.96N	57.76E	30	4.1b		
IDC	VI	15 02 00 54.4–3.2	27.91N	57.61E	40–33	4.0,4.0L		
OMAN	VI	15 02 00 55.8–39	27.88N	57.80E	30	4.0,4.0L		
TEH	VI	15 02 00 57.3	27.90N	57.57E	30	4.1L,4.0L		
THR	VI	15 02 00 57.2–.30	28.14N	57.22E	15	4.3L,4.0L		
NEIC	VI	15 02 00 57.3	27.90N	57.57E	30	4.3L,4.1		

ISC Event type ke.
DSN Error ellipse: s-maj=56.0km s-min=10.2km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.0km az=26.3.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=6.2km az=110.0.
IDC Error ellipse: s-maj=21.1km s-min=14.9km az=161.0.
OMAN Error ellipse: s-maj=14.3km s-min=6.7km az=352.0.
THR Error ellipse: s-maj=1.9km s-min=2.4km az=-1.0.
NEIC Event type se. After TEH.

ISC	**VI**	**15 02 35 49.0–.47**	**27.91N–.03**	**57.64E–.04**	**30**	**3.9b**	**121**	**1-90**
OMAN	VI	15 02 35 46.9–.16	28.13N	57.78E	31	3.9b		¶16598358
ISCJB	VI	15 02 35 47.6–.33	27.93N–.03	57.85E–.04	30	4.0b,3.2s		
DSN	VI	15 02 35 48.1–1.4	27.66N	58.32E	36	4.5L,3.2s		
CSEM	VI	15 02 35 49.0–.25	27.92N	57.81E	30	4.3b,3.2s		
IDC	VI	15 02 35 50.0–3.0	27.88N	57.65E	50–31	4.0L,3.9		
TEH	VI	15 02 35 52.7	27.86N	57.59E	31	4.2L,3.9		
THR	VI	15 02 35 52.9–.30	28.19N	57.17E	15	4.3L,3.9		
NEIC	VI	15 02 35 52.7	27.86N	57.59E	31	4.3L,4.2		

ISC Event type ke.
OMAN Error ellipse: s-maj=19.4km s-min=4.6km az=307.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=30.5.
DSN Error ellipse: s-maj=42.1km s-min=10.0km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=6.4km az=110.0.
IDC Error ellipse: s-maj=20.3km s-min=14.6km az=166.0.
THR Error ellipse: s-maj=1.8km s-min=2.5km az=-1.0.
NEIC Event type se. After TEH.

ISC	**VI**	**15 02 45 57.1–.45**	**27.77N–.04**	**57.80E–.04**	**10**	**4.3b,3.5s**	**125**	**1-130**
ISN	VI	15 02 45 55.7–.54	28.02N	57.62E	0–6	4.6L,3.5s		¶16598359
ISCJB	VI	15 02 45 55.4–.39	27.71N–.04	57.85E–.05	10	4.2b,3.5s		
CSEM	VI	15 02 46 00.5–.29	27.82N	57.83E	30	4.4b,3.5s		
IDC	VI	15 02 46 01.6–2.5	27.89N	57.76E	48–25	4.5L,4.2		
NEIC	VI	15 02 46 02.7	27.82N	57.73E	27	4.6L,4.6		
TEH	VI	15 02 46 02.7	27.82N	57.73E	27	4.6L,4.6		
THR	VI	15 02 46 04.6–.30	28.15N	57.25E	15	4.7L,4.6		
OMAN	VI	15 02 46 04.6–4.6	27.34N	58.21E	27	4.7L,4.6		

ISC Event type ke.
ISN Error ellipse: s-maj=7.5km s-min=7.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=44.6.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=7.5km az=126.0.
IDC Error ellipse: s-maj=15.9km s-min=14.1km az=166.0.
NEIC Event type se. After TEH.
THR Error ellipse: s-maj=1.9km s-min=2.4km az=-1.0.
OMAN Error ellipse: s-maj=4.9km s-min=1.4km az=269.0.

ISC	**VI**	**16 21 59 11.5–.74**	**27.90N–.03**	**57.63E–.05**	**30**	**3.6b**	**52**	**1-54**
ISCJB	VI	16 21 59 10.1–.61	27.87N–.04	57.74E–.08	30	3.6b		¶17206349
TEH	VI	16 21 59 12.0	27.95N	57.68E	10	3.7L		
OMAN	VI	16 21 59 12.0	27.95N	57.68E	10	3.7L		
IDC	VI	16 21 59 13.3–2.2	27.72N	57.79E	70–30	3.8,3.5		
THR	VI	16 21 59 14.3–.34	28.14N	57.20E	14–4	3.8L,3.5		
CSEM	VI	16 21 59 14.3–.61	27.90N	57.34E	19–0	3.7L,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.9km az=10.0.
IDC Error ellipse: s-maj=19.8km s-min=15.5km az=104.0.
THR Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=19.1km s-min=10.5km az=106.0.

ISC	**VI**	**17 05 40 20.1–.51**	**27.05N–.03**	**54.30E–.03**	**18**	**3.8b**	**69**	**2-92**
ISN	VI	17 05 39 50.0–1.7	25.97N	55.13E	0	3.8L		¶16628223
TEH	VI	17 05 40 14.2	26.85N	54.10E	10	3.8L		
DSN	VI	17 05 40 16.1–6.9	27.59N	54.24E	15	4.0L		
THR	VI	17 05 40 16.3–.43	26.87N	54.25E	46–4	3.9L		
ISCJB	VI	17 05 40 19.7–.32	27.16N–.03	54.26E–.04	18	3.8b,3.0s		
CSEM	VI	17 05 40 22.0–.39	27.17N	54.32E	20	3.8L,3.0s		
IDC	VI	17 05 40 23.6–2.5	27.05N	54.30E	52–28	3.9,3.8		

ISC Event type ke.
ISN Error ellipse: s-maj=20.5km s-min=23.7km az=-1.0.
DSN Error ellipse: s-maj=6.0km s-min=3.8km az=359.0.
THR Error ellipse: s-maj=3.5km s-min=2.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=30.3.
CSEM Event type ke. Error ellipse: s-maj=13.8km s-min=7.4km az=63.0.
IDC Error ellipse: s-maj=19.4km s-min=13.4km az=20.0.

ISC	**VI**	**20 23 59 07.7–1.1**	**27.91N–.03**	**56.61E–.07**	**28**		**47**	**0-7**
OMAN	VI	20 23 59 04.0	28.04N	56.58E	15			¶601654514
TEH	VI	20 23 59 04.0	28.05N	56.58E	15	3.0L		
ISCJB	VI	20 23 59 06.3–.42	27.95N–.03	56.53E–.08	28	3.0L		
CSEM	VI	20 23 59 06.4–.19	27.94N	56.59E	19–0	3.0L		
DSN	VI	20 23 59 08.5–1.2	27.73N	56.69E	15	3.1L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=3.6km az=2.8.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=3.6km az=95.0.
DSN Error ellipse: s-maj=50.7km s-min=9.9km az=110.0.

ISC	**VI**	**21 01 04 59.7–4.8**	**25.0N–.20**	**60.5E–.30**	**35**		**17**	**3-4**
OMAN	VI	21 01 04 57.7–71	24.86N	60.54E	24–0			¶601654597
CSEM	VI	21 01 05 02.6–3.2	24.91N	60.18E	20	3.5L		
DSN	VI	21 01 05 04.5–1.7	24.98N	60.01E	15	3.5L		

ISC Event type ke.
OMAN Error ellipse: s-maj=10.4km s-min=2.1km az=240.0.
CSEM Event type ke. Error ellipse: s-maj=84.3km s-min=31.0km az=65.0.
DSN Error ellipse: s-maj=28.0km s-min=10.8km az=33.0.

TEH	**VI**	**26 09 50 21.9**	**29.91N**	**57.82E**	**6**	**3.7L**		
CSEM	VI	26 09 50 25.5–.44	29.99N	57.69E	2	3.7L		¶602004637

CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=8.3km az=131.0.

ISC	**VI**	**26 19 01 35.0–.97**	**27.08N–.03**	**56.05E–.05**	**14**		**52**	**0-7**
OMAN	VI	26 19 01 33.6	27.13N	56.03E	11			¶601655015
TEH	VI	26 19 01 33.6	27.13N	56.03E	11	3.0L		
ISCJB	VI	26 19 01 34.7–.40	27.11N–.03	56.05E–.05	14	3.0L		
CSEM	VI	26 19 01 35.1–.20	27.09N	56.07E	10	3.0L		
DSN	VI	26 19 01 36.2–.62	27.03N	56.37E	15	3.1L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=0.2.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=87.0.
DSN Error ellipse: s-maj=22.1km s-min=4.6km az=97.0.

ISC	**VI**	**26 20 17 52.8–.39**	**28.14N–.04**	**59.97E–.04**	**10**	**4.4b,3.7s**	**238**	**3-98**
IDC	VI	26 20 17 50.4–.68	28.03N	59.72E	0	4.3,4.3b		¶602729537
ISCJB	VI	26 20 17 51.6–.24	28.10N–.03	60.03E–.03	10	4.4b,3.8s		
DSN	VI	26 20 17 51.5–4.0	27.88N	60.50E	37	5.0b,4.8L		
THR	VI	26 20 17 52.3–.37	28.10N	59.95E	18–6	4.6L,4.8L		
CSEM	VI	26 20 17 53.6–.19	28.12N	60.01E	15	4.5b,4.8L		
MOS	VI	26 20 17 54.0–1.4	28.08N	59.85E	33	4.8b,4.1s		
OMAN	VI	26 20 17 55.5–15	28.01N	60.01E	18–3	4.8b,4.1s		
TEH	VI	26 20 17 56.5	28.21N	59.88E	15	4.6L,4.1s		
BJI	VI	26 20 17 56.8	28.31N	59.96E	43	4.8b,4.5b		
NEIC	VI	26 20 17 56.5	28.21N	59.88E	15	4.6,4.5b		
ISN	VI	26 20 17 57.9–1.1	29.48N	59.96E	0	4.5L,4.5b		

ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.9km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=157.1.
DSN Error ellipse: s-maj=65.9km s-min=9.2km az=107.0.
THR Error ellipse: s-maj=1.8km s-min=3.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.2km az=131.0.
MOS Error ellipse: s-maj=8.7km s-min=5.6km az=86.9.
OMAN Error ellipse: s-maj=6.2km s-min=1.5km az=299.0.
NEIC Event type se. After TEH.
ISN Error ellipse: s-maj=5.5km s-min=17.6km az=-1.0.

ISC	**VI**	**29 09 54 24.7–.63**	**27.59N–.04**	**54.97E–.04**	**20**	**3.8b,2.9s**	**76**	**1-86**
DSN	VI	29 09 54 16.2–1.4	28.63N	55.71E	15	4.2L,2.9s		¶17207184
IDC	VI	29 09 54 21.6–1.3	27.72N	54.93E	0	3.9,3.8		
TEH	VI	29 09 54 23.6	27.70N	55.01E	21	3.8L,3.8		
ISCJB	VI	29 09 54 24.5–.42	27.71N–.04	54.91E–.05	20	3.7b,3.0s		
THR	VI	29 09 54 25.6–.37	27.80N	55.05E	15–12	3.7L,3.0s		
CSEM	VI	29 09 54 26.4–.28	27.71N	55.04E	15	3.7L,3.0s		

ISC Event type ke.
DSN Error ellipse: s-maj=40.7km s-min=9.3km az=69.0.
IDC Error ellipse: s-maj=27.0km s-min=20.8km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=145.2.
THR Error ellipse: s-maj=10.2km s-min=4.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=5.7km az=53.0.

ISC	**VI**	**30 02 38 30.5–1.2**	**27.02N–.08**	**53.45E–.07**	**10**	**3.5b**	**34**	**1-50**
ISCJB	VI	30 02 38 28.9–.88	27.00N–.06	53.38E–.07	10	3.6b		¶17207229
IDC	VI	30 02 38 28.3–2.9	27.09N	53.59E	0	3.6,3.6		
CSEM	VI	30 02 38 32.8–1.1	27.11N	53.49E	15	3.2L,3.6		
TEH	VI	30 02 38 34.6	27.13N	53.49E	18	3.2L,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=7.5km az=142.5.
IDC Error ellipse: s-maj=61.5km s-min=31.6km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=27.6km s-min=9.1km az=34.0.

(354) Southwestern Pakistan.

ISC	**I**	**18 20 23 25.6–.23**	**28.68N–.02**	**64.00E–.02**	**80–1**	**6.8b**	**3619**	**3-167**
IDC	I	18 20 23 16.0–.31	28.95N	63.97E	0	6.7,6.7s		¶15938045
THR	I	18 20 23 21.3–.59	28.04N	63.85E	44–13	6.7L,6.7s		
ISCJB	I	18 20 23 22.2–.24	28.70N–.02	63.98E–.01	72–2	6.6b,6.7s		
GCMT	I	18 20 23 23.5–.10	28.61N	63.90E	52–0	7.2W,6.7s		
NEIC	I	18 20 23 23.5–.14	28.78N	63.95E	68	7.3,7.2W		
DSN	I	18 20 23 23.2–.66	28.77N	64.10E	50	7.2s,6.9b		
MOS	I	18 20 23 23.7–1.3	28.84N	63.89E	78	7.0b,6.8s		
PDA	I	18 20 23 23.2	28.73N	63.93E	68	6.7b,6.8s		
BJI	I	18 20 23 24.0	28.83N	64.09E	72	7.3b,7.1s		
NEIC	I	18 20 23 24.0–.00	28.68N	63.84E	60	7.3b,7.1s		
CSEM	I	18 20 23 24.9–.07	28.78N	63.98E	80	7.3W,7.1s		
SFS	I	18 20 23 25.0	28.81N	63.97E	80	7.2L,7.1s		
OMAN	I	18 20 23 26.9–.00	28.72N	63.87E	84	7.2L,7.1s		
TEH	I	18 20 23 28.0	28.87N	63.97E	101	7.2L,7.1s		

ISC Event type de.
IDC Error ellipse: s-maj=6.9km s-min=5.8km az=168.0.
THR Error ellipse: s-maj=12.4km s-min=10.6km az=-1.0.
ISCJB Event type de. Error ellipse: s-maj=2.7km s-min=1.3km az=21.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=50s. nsta2 refers to surface/mantle waves, cutoff=150s. Moment Tensor Solution. s142,c377; s138,c656;Duration: 10^{s}1 Moment tensor: Scale 10^{20}Nm; M_{rr}-0.64±.00 $M_{\theta\theta}$0.54±.00; $M_{\phi\phi}$0.10±.00; $M_{r\theta}$0.29±.01; $M_{\theta\phi}$0.41±.00; $M_{\phi r}$0.42±.01; Best double couple: NP1:ϕ_s224.00000° ,δ63.00000°,λ-107.00000°. NP2:ϕ_s77.00000°,δ31.00000°,λ-60.00000°. Principal axes: T 0.9240,Plg17.0000°,Azm326.0000°; N -0.0880,Plg15.0000°,Azm231.0000° ; P -0.8360,Plg67.0000°,Azm102.0000° $M_0$0.88000×10^{20}
NEIC Event type de. Error ellipse: s-maj=4.9km s-min=3.1km az=14.0. One person killed at Garhi Khairo and two people died from heart attacks, one each at Jacobabad and Quetta. Several people injured and at least 200 buildings damaged [V] in Balochistan, expecially in the Dalbandin area. Damage also occurred in Sindh and in southern Punjab. Felt [IV] at Bahawalpur, Karachi and Quetta; [III] at Hyderabad, Islamabad, Khairpur and Lahore. Slight damage occurred in parts of western India. Felt [IV] at Ghaziabad, Gurgaon, New Delhi and Pilani; [III] at Amritsar, Chandigarh, Delhi, Jaipur and Noida. Felt [IV] at Chenaran and [III] at Bandar 'Abbas and Zahedan, Iran. Also felt [IV] at Ra's al Khaymah and [III] at Abu Dhabi, Ajman, Dubai and Sharjah, United Arab Emirates. Felt [III] at Kabul and Kandahar, Afghanistan, at Manama, Bahrain and at Muscat, Oman. Felt [II] at Doha, Qatar and at Riyadh, Saudi Arabia. Felt in 11 countries of southern Asia from Ashgabat, Turkmenistan and Samarqand, Uzbekistan to Bangalore, India and from Haridwar, India to Buraydah, Saudi Arabia. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s84 Moment tensor: Scale 10^{19}Nm; M_{rr}-3.17 $M_{\theta\theta}$2.53 $M_{\phi\phi}$0.64 $M_{r\theta}$1.09 $M_{\theta\phi}$2.63 $M_{\phi r}$3.36 Best double couple: NP1:ϕ_s82.00000° ,δ33.00000°,λ-42.00000°. NP2:ϕ_s209.00000°,δ69.00000°,λ-116.00000°. Principal axes: T 5.3900,Plg20.0000°,Azm318.0000°; N -0.2400,Plg24.0000°,Azm219.0000° ; P -5.1500,Plg58.0000°,Azm84.0000° $M_0$5.30000×10^{19} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s90.00000°,δ14.00000°,λ-45.00000°. NP2: ϕ_s225.00000°,δ80.00000°,λ-100.00000°. Principal axes: T Plg34.0000°,Azm324.0000° ; N Plg0.0000°,Azm0.0000°; P Plg54.0000°,Azm123.0000°
DSN Error ellipse: s-maj=11.9km s-min=7.1km az=134.0.
MOS Error ellipse: s-maj=4.7km s-min=3.0km az=115.3. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s215.00000°,δ71.00000°,λ-100.00000°. NP2: ϕ_s64.00000°,δ21.00000°,λ-63.00000°. Principal axes: T Plg25.0000°,Azm313.0000° ; N Plg9.0000°,Azm219.0000°; P Plg63.0000°,Azm110.0000°
NEIC Event type se. Moment Tensor Solution. s135 Moment tensor: Scale 10^{19}Nm; M_{rr}-6.14 $M_{\theta\theta}$5.26 $M_{\phi\phi}$0.88 $M_{r\theta}$2.60 $M_{\theta\phi}$3.95 $M_{\phi r}$4.55 Best double couple: NP1:ϕ_s221.00000° ,δ65.00000°,λ-109.00000°. NP2:ϕ_s80.00000°,δ32.00000°,λ-54.00000°. Principal axes: T 9.0100,Plg17.0000°,Azm325.0000°; N -0.6000,Plg17.0000°,Azm229.0000° ; P -8.4100,Plg64.0000°,Azm96.0000° $M_0$8.70000×10^{19}
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=10.0.
SFS Event type ke.
OMAN Error ellipse: s-maj=1.4km s-min=1.2km az=350.0.

ISC	**I**	**18 20 39 21.8–.99**	**29.2N–.20**	**63.4E–.10**	**35**	**4.2b**	**40**	**7-89**
IDC	I	18 20 39 14.4–2.2	28.78N	63.45E	0	4.1,4.1		¶16151787
ISCJB	I	18 20 39 19.8–.69	29.1N–.10	63.4E–.10	33	4.1b,4.1		
NEIC	I	18 20 39 21.9–2.0	29.06N	63.39E	42–23	4.4b,4.1		
CSEM	I	18 20 39 23.8–.52	29.10N	63.38E	60	5.5s,4.4b		
DSN	I	18 20 39 37.2–4.0	28.12N	62.73E	70	5.5s,4.4b		

ISC Event type ke.
IDC Error ellipse: s-maj=51.9km s-min=24.7km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=6.0km az=140.0.
NEIC Event type se. Error ellipse: s-maj=26.6km s-min=12.3km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=29.4km s-min=8.3km az=136.0.
DSN Error ellipse: s-maj=46.2km s-min=40.0km az=13.0.

DSN	**I**	**18 20 44 54.3–2.1**	**28.18N**	**62.82E**	**50**	**5.4s,4.0b**		
								¶601668435

DSN Error ellipse: s-maj=71.4km s-min=13.8km az=167.0.

ISC I 18 21 32 27.2–.46 28.78N–.07 64.02E–.05 35 4.3b 256 5-85
IDC I 18 21 32 20.6–1.0 28.58N 63.93E 0 4.1,3.9 ¶601989580
OMAN I 18 21 32 20.1–99 29.03N 64.84E 93–99 4.1,3.9
ISCJB I 18 21 32 24.8–.30 28.72N–.04 63.96E–.03 33 4.3b,3.9
NEIC I 18 21 32 29.2–.90 28.71N 63.96E 64–9 4.5b,3.9
CSEM I 18 21 32 30.8–.19 28.73N 63.99E 80 4.9s,4.3b
DSN I 18 21 32 33.3–5.5 28.84N 63.75E 50 4.9s,4.2b
MOS I 18 21 32 33.1–1.4 28.93N 64.01E 102 4.0b,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=22.9km s-min=14.9km az=11.0.
OMAN Error ellipse: s-maj=1745.0km s-min=33.6km az=236.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.8km az=169.5.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=5.1km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.9km az=155.0.
DSN Error ellipse: s-maj=83.5km s-min=13.7km az=109.0.
MOS Error ellipse: s-maj=8.9km s-min=5.6km az=109.0.
IDC II 22 13 31 55.8–1.3 29.14N 62.06E 0 3.7,3.6
¶17192705
IDC Error ellipse: s-maj=30.7km s-min=26.6km az=129.0.

(356) Off coast of Pakistan.

ISC I 27 22 49 04.1–2.9 23.7N–.40 62.8E–.20 35 3.3b 9 4-42
IDC I 27 22 48 59.8–4.0 23.81N 63.16E 0 3.7,3.6 ¶17191154
ISC Event type ke.
IDC Error ellipse: s-maj=83.2km s-min=25.7km az=164.0.

SEISMIC REGION 30.
Middle East-Crimea-Eastern Balkans.

(357) Ukraine-Moldova-Southwestern Russia region.

BUC I 11 10 59 26.5–.25 45.11N 28.26E 1–3 2.1
¶600517679
BUC Event type ke. Error ellipse: s-maj=2.5km s-min=1.5km az=43.0.
ISC I 14 05 03 13.4–.54 47.93N–.04 33.41E–.03 10 3.8b 159 3-68
ISCJB I 14 05 03 11.7–.25 48.05N–.02 33.38E–.03 10 3.7b ¶16019215
IDC I 14 05 03 12.9–.64 47.95N 33.33E 0 3.8,3.7b
MOS I 14 05 03 14.3–1.6 48.04N 33.35E 24 4.0b,3.7b
PRU I 14 05 03 15.8 48.00N 33.03E 0 3.9,3.7b
CSEM I 14 05 03 16.3–.17 48.05N 33.39E 30 3.9b,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=144.6.
IDC Error ellipse: s-maj=11.5km s-min=8.9km az=60.0.
MOS Error ellipse: s-maj=8.0km s-min=6.0km az=104.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=151.0.
ISC I 14 16 27 33.8–1.2 48.63N–.05 27.42E–.04 5–11 36 1-4
ISCJB I 14 16 27 33.5–.75 48.63N–.05 27.41E–.06 4–6 ¶601783273
SIGU I 14 16 27 33.7–.10 48.64N–.01 27.39E–.01 6 2.7b
ISC Event type ke.
ISCJB Event type ke.
IDC I 27 11 00 29.2–4.0 48.57N 33.67E 0 3.1,3.1
¶17191099
IDC Error ellipse: s-maj=64.5km s-min=20.7km az=61.0.
IDC II 10 11 00 32.5–5.6 48.39N 33.36E 0 3.7,3.6
¶17192007
IDC Error ellipse: s-maj=61.6km s-min=33.5km az=11.0.
IDC II 16 15 09 01.4–624 46.70N 48.62E 0
¶17192371
IDC Error ellipse: s-maj=234.0km s-min=149.2km az=39.0.
IDC II 17 05 21 49.2–363 46.83N 48.55E 0
¶17192402
IDC Error ellipse: s-maj=162.0km s-min=114.1km az=14.0.
BUC III 04 09 59 44.0–.56 45.05N 28.25E 1–6 2.1
¶600759328
BUC Event type ke. Error ellipse: s-maj=5.9km s-min=3.3km az=77.0.
IDC III 05 14 41 48.5–999 46.95N 47.98E 0
¶17193287
IDC Error ellipse: s-maj=5438.0km s-min=162.2km az=59.0.
IDC III 18 13 21 27.2–630 46.93N 47.42E 0
¶17196896
IDC Error ellipse: s-maj=247.9km s-min=177.7km az=22.0.
IDC III 21 09 58 50.5–640 46.50N 47.07E 0
¶17197659
IDC Error ellipse: s-maj=240.1km s-min=149.3km az=41.0.
IDC III 29 10 31 50.7–999 47.28N 47.52E 0
¶17199060
IDC Error ellipse: s-maj=6713.0km s-min=161.1km az=62.0.
IDC IV 01 12 37 33.6–520 48.76N 45.37E 0
¶17199418
IDC Error ellipse: s-maj=185.7km s-min=155.3km az=44.0.
IDC IV 08 11 45 08.1–609 47.04N 47.82E 0
¶17200240
IDC Error ellipse: s-maj=226.4km s-min=146.5km az=43.0.
IDC IV 21 10 26 35.2–549 46.37N 48.66E 0
¶17201708
IDC Error ellipse: s-maj=350.4km s-min=133.5km az=169.0.
IDC IV 22 10 07 46.7–698 46.90N 48.70E 0
¶17201803
IDC Error ellipse: s-maj=235.6km s-min=154.3km az=42.0.
IDC IV 29 09 52 12.5–690 47.11N 47.60E 0
¶17202370
IDC Error ellipse: s-maj=231.4km s-min=158.0km az=45.0.
ISC V 04 10 43 00.8–1.4 45.11N–.02 29.82E–.02 7–10 237 1-40
CSEM V 04 10 43 02.5–.15 45.08N 29.83E 10 4.1 ¶17202744
BUC V 04 10 43 03.1–1.2 45.09N 29.71E 10 4.1
SIGU V 04 10 43 03.4 44.94N 29.97E 10 3.6b
IDC V 04 10 43 04.3–2.5 45.10N 29.77E 33–29 3.4,3.4b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.2km az=49.0.
BUC Event type ke. Error ellipse: s-maj=11.2km s-min=4.7km az=91.0.
IDC Error ellipse: s-maj=11.6km s-min=8.3km az=55.0.
IDC V 05 10 35 45.9–628 47.06N 47.40E 0
¶17202838
IDC Error ellipse: s-maj=236.9km s-min=147.5km az=45.0.
IDC V 08 10 50 29.9–598 47.04N 47.90E 0
¶17203040
IDC Error ellipse: s-maj=229.6km s-min=137.5km az=46.0.
IDC V 10 12 00 45.4–412 47.49N 47.93E 0
¶17203253
IDC Error ellipse: s-maj=164.5km s-min=139.2km az=19.0.
IDC V 10 13 47 37.0–416 47.38N 47.68E 0
¶17203271
IDC Error ellipse: s-maj=167.2km s-min=139.8km az=14.0.
IDC V 10 14 43 11.2–435 47.33N 47.59E 0
¶17203283
IDC Error ellipse: s-maj=182.3km s-min=145.7km az=1.0.
IDC V 10 15 38 25.8–426 47.39N 47.49E 0
¶17203298
IDC Error ellipse: s-maj=173.2km s-min=144.1km az=12.0.
BUC V 11 11 09 55.5–.12 45.22N 28.36E 3–1 2.0
¶600916870
BUC Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=1.0.
IDC V 11 15 40 28.9–377 47.39N 47.50E 0
¶17203404
IDC Error ellipse: s-maj=155.2km s-min=134.9km az=170.0.
IDC V 15 07 36 20.9–1.2 48.75N 38.85E 0 3.5,3.4
¶17203675
IDC Error ellipse: s-maj=47.8km s-min=8.8km az=52.0.
IDC V 17 12 32 31.5–414 47.25N 47.99E 0
¶17203819
IDC Error ellipse: s-maj=165.8km s-min=137.7km az=22.0.
IDC V 18 13 12 53.6–412 47.09N 47.98E 0
¶17203881
IDC Error ellipse: s-maj=164.7km s-min=134.7km az=25.0.
IDC V 18 15 28 17.7–446 48.79N 43.00E 0
¶17203886
IDC Error ellipse: s-maj=186.3km s-min=127.4km az=166.0.
IDC V 19 14 13 10.6–393 49.01N 45.31E 0
¶17203974
IDC Error ellipse: s-maj=298.8km s-min=143.9km az=162.0.
IDC V 22 11 29 15.3–680 47.36N 47.54E 0
¶17204217
IDC Error ellipse: s-maj=230.1km s-min=163.1km az=45.0.
IDC V 23 15 46 14.2–464 47.23N 43.19E 0
¶17204306
IDC Error ellipse: s-maj=213.3km s-min=149.8km az=169.0.
IDC V 23 16 49 28.4–467 48.36N 42.72E 0
¶17204310
IDC Error ellipse: s-maj=202.9km s-min=133.8km az=168.0.
IDC V 24 11 21 05.3–4.8 47.50N 46.75E 0 3.8,3.4
¶17204374
IDC Error ellipse: s-maj=154.3km s-min=38.3km az=128.0.
IDC V 27 11 39 48.7–999 46.85N 48.27E 0
¶17204567
IDC Error ellipse: s-maj=523.9km s-min=212.1km az=131.0.
BUC V 28 09 20 25.3–.43 45.06N 28.24E 2 2.1
¶600917362
BUC Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=72.0.
IDC V 29 12 46 54.6–428 47.05N 47.48E 0
¶17204699
IDC Error ellipse: s-maj=176.0km s-min=143.8km az=15.0.
IDC VI 08 15 22 02.9–691 47.05N 47.30E 0
¶17205560
IDC Error ellipse: s-maj=224.4km s-min=189.4km az=32.0.
IDC VI 09 13 14 44.4–432 47.41N 47.27E 0
¶17205629
IDC Error ellipse: s-maj=178.2km s-min=144.3km az=5.0.
ISC VI 13 19 54 46.1–1.3 44.07N–.04 44.38E–.05 12–10 33 0-19
TIF VI 13 19 54 43.6 44.18N 44.38E 19–1 ¶600856245
MOS VI 13 19 54 45.3–1.1 44.09N 44.34E 13 3.7b
ISC Event type ke.
MOS Error ellipse: s-maj=13.3km s-min=5.9km az=84.1.
IDC VI 14 12 29 14.4–708 46.84N 47.32E 0
¶17206114
IDC Error ellipse: s-maj=240.9km s-min=162.4km az=43.0.
IDC VI 15 10 37 39.5–672 47.57N 46.80E 0
¶17206178
IDC Error ellipse: s-maj=225.5km s-min=174.9km az=38.0.
IDC VI 15 14 05 08.8–435 47.35N 47.07E 0
¶17206189
IDC Error ellipse: s-maj=178.7km s-min=142.2km az=3.0.
IDC VI 18 10 06 43.2–999 46.91N 47.75E 0
¶17206453
IDC Error ellipse: s-maj=512.3km s-min=207.7km az=132.0.
IDC VI 21 12 17 04.5–471 47.06N 46.03E 0
¶17206677
IDC Error ellipse: s-maj=201.5km s-min=143.5km az=176.0.
IDC VI 25 11 18 44.9–446 47.46N 46.04E 0
¶17206919
IDC Error ellipse: s-maj=186.8km s-min=141.5km az=177.0.
IDC VI 26 11 23 39.0–410 46.70N 45.49E 0
¶17206976
IDC Error ellipse: s-maj=188.2km s-min=141.2km az=162.0.
IDC VI 27 12 17 46.0–459 46.77N 45.84E 0
¶17207072
IDC Error ellipse: s-maj=188.8km s-min=143.5km az=1.0.

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BUC I 10 17 32 01.5–.50 44.30N 28.00E 11–11 1.9
¶600517478
BUC Event type ke. Error ellipse: s-maj=7.2km s-min=3.0km az=318.0.
BUC I 11 18 55 13.4–.61 45.68N 26.54E 152–5 3.9
CSEM I 11 18 55 13.4 45.68N 26.54E 152 3.9 ¶600517799
BUC Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=337.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BUC I 12 14 12 04.8–.45 45.74N 22.93E 4–6 2.2
¶600517997
BUC Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=91.0.
BUC I 19 00 17 05.7–.83 45.70N 21.23E 12–5 2.4
¶600520009
BUC Event type ke. Error ellipse: s-maj=7.3km s-min=4.9km az=115.0.
BUC I 19 11 46 36.4–.88 45.22N 25.37E 3–7 2.3
¶600520116
BUC Event type ke. Error ellipse: s-maj=9.9km s-min=2.9km az=355.0.
BUC I 19 18 08 00.6–.34 45.72N 21.70E 10 2.2
¶600520238
BUC Event type ke. Error ellipse: s-maj=5.6km s-min=2.5km az=100.0.
BUC I 20 11 39 10.5–.34 44.19N 28.37E 14–1 2.1
¶600520439
BUC Event type ke. Error ellipse: s-maj=3.8km s-min=0.6km az=135.0.
BUC I 21 10 43 43.6–.69 46.42N 25.62E 5 2.4
¶600520740
BUC Event type ke. Error ellipse: s-maj=5.8km s-min=2.2km az=358.0.
BUC I 24 13 39 47.6–.46 45.50N 24.38E 2 2.0
¶600521746
BUC Event type ke. Error ellipse: s-maj=8.6km s-min=3.0km az=31.0.
BUC I 24 13 56 12.3–.46 46.33N 23.13E 4 2.7
¶600521749
BUC Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=315.0.
BUC I 24 19 26 36.0–.58 44.89N 26.94E 2 2.4
¶600521817
BUC Event type ke. Error ellipse: s-maj=9.1km s-min=3.6km az=37.0.
BUC I 26 11 42 31.8–.18 46.67N 22.21E 6–4 2.6
¶600522334
BUC Event type ke. Error ellipse: s-maj=4.2km s-min=1.1km az=0.0.
BUC I 26 11 43 03.0–1.1 45.97N 25.26E 2 2.0
¶600522335
BUC Event type ke. Error ellipse: s-maj=9.6km s-min=2.7km az=324.0.
BUC I 26 23 11 13.7–1.1 45.66N 26.50E 152–9 3.3
CSEM I 26 23 11 13.6 45.66N 26.51E 153 3.3 ¶600522503
BUC Event type ke. Error ellipse: s-maj=9.8km s-min=6.4km az=342.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 26 23 57 26.2–.66 45.14N–.01 27.59E–.01 12 272 0-17
IDC I 26 23 57 23.4–.90 45.19N 27.74E 0 3.5,3.4 ¶17191067
ISCJB I 26 23 57 24.9–.20 45.18N–.01 27.66E–.02 12 3.5,3.4
SOF I 26 23 57 26.5 45.00N 27.34E 6 3.5,3.4
SIGU I 26 23 57 26.1 45.20N 27.62E 25 3.4b,3.4
BUC I 26 23 57 27.2–.59 45.08N 27.56E 23–6 4.1,3.4
CSEM I 26 23 57 27.9–.18 45.07N 27.59E 25–2 4.1,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=12.5km s-min=9.5km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=147.2.
BUC Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=123.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=67.0.
BUC I 30 03 06 42.1–.99 45.66N 26.47E 124–8 2.7
¶600523463
BUC Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=329.0.
BUC I 31 10 23 31.5–.49 46.61N 23.78E 15–3 2.2
¶600523978
BUC Event type ke. Error ellipse: s-maj=5.9km s-min=3.4km az=45.0.
ISC I 31 21 05 39.4–1.3 47.62N–.02 26.22E–.02 4–11 52 1-3
ISCJB I 31 21 05 40.0–.71 47.60N–.02 26.23E–.04 5–5 ¶600524115
BUC I 31 21 05 39.6–.68 47.59N 26.21E 6–4 2.7

SIGU I 31 21 05 40.3–.10 47.59N–.01 26.21E–.01 10 2.3b
ISC Event type ke.
ISCJB Event type ke.
BUC Event type ke.
BUC II 03 11 16 58.0–.44 46.30N 23.14E 0–4 2.7
¶600743781

BUC Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=48.0.
BUC II 03 15 41 46.5–.30 44.23N 28.36E 11–0 2.1
¶600743784

BUC Event type ke. Error ellipse: s-maj=3.7km s-min=0.4km az=132.0.
BUC II 04 13 07 18.8–.34 46.32N 23.16E 4–4 2.3
¶600743789

BUC Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=318.0.
ISC II 04 23 25 15.9–.66 45.72N–.02 26.75E–.02 118–4 3.8b 342 0-68
ISCJB II 04 23 25 14.7–.18 45.73N–.01 26.75E–.02 119–2 3.8b ¶17191703
SIGU II 04 23 25 14.5 45.76N 26.83E 124 4.0b
IDC II 04 23 25 15.2–.52 45.84N 26.63E 101–5 3.7,3.4
CSEM II 04 23 25 15.8–.18 45.70N 26.72E 115–2 4.4,3.4
BUC II 04 23 25 16.3–.58 45.74N 26.75E 112–6 4.4,3.4
SOF II 04 23 25 19.3 45.28N 26.54E 5 3.3,3.4
BEO II 04 23 25 23.0–1.8 45.65N 26.08E 78–3 3.3,3.4
ATH II 04 23 25 47.5 43.30N 25.62E 30–31 2.6L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=152.1.
IDC Error ellipse: s-maj=17.0km s-min=10.3km az=129.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.9km az=118.0.
BUC Event type ke. Error ellipse: s-maj=4.6km s-min=4.4km az=356.0.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=5.1km az=0.0. ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 05 14 28 39.1–1.1 45.58N–.03 26.56E–.02 132 190 0-5
ISCJB II 05 14 28 38.7–.22 45.57N–.02 26.57E–.03 132 ¶600743791
CSEM II 05 14 28 40.4–.20 45.59N 26.57E 118–2 3.8
BUC II 05 14 28 40.3–.39 45.59N 26.55E 125–4 3.8
BEO II 05 14 28 52.1–.83 45.19N 25.03E 0 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=9.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=15.0.
BUC Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=2.0.
BEO Event type ke.
ISC II 06 21 35 53.7–.91 45.43N–.01 24.32E–.01 9–7 246 0-5
SIGU II 06 21 35 52.9–.10 45.51N–.01 24.35E–.01 2 2.8b ¶600743801
ISCJB II 06 21 35 53.4–.36 45.47N–.01 24.30E–.02 8–2 2.8b
BUC II 06 21 35 53.9–.86 45.46N 24.33E 11–7 3.7
CSEM II 06 21 35 54.0–.10 45.44N 24.31E 5 3.7
BEO II 06 21 35 56.2–.63 45.45N 24.15E 16–3 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=40.4.
BUC Event type ke. Error ellipse: s-maj=8.1km s-min=5.5km az=53.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=11.0.
BEO Event type ke.
ISC II 12 14 59 50.0–1.2 45.76N–.02 26.59E–.02 94–5 155 0-5
ISCJB II 12 14 59 49.5–.46 45.76N–.02 26.59E–.03 96–4 ¶600743838
CSEM II 12 14 59 50.4–.20 45.76N 26.58E 90–2 3.8
BUC II 12 14 59 50.5–.57 45.76N 26.59E 88–6 3.8
SOF II 12 14 59 52.7 45.40N 26.54E 13 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=174.0.
BUC Event type ke. Error ellipse: s-maj=5.0km s-min=4.6km az=123.0.
ISC II 14 08 59 33.8–.86 44.58N–.02 26.26E–.02 30–4 132 0-5
SOF II 14 08 59 33.3 44.57N 26.35E 6 2.9 ¶600743848
CSEM II 14 08 59 33.9–.17 44.57N 26.19E 24–1 3.8
BUC II 14 08 59 33.5–.52 44.58N 26.22E 28–3 3.8
ISCJB II 14 08 59 34.0–.38 44.58N–.02 26.18E–.03 29–3 3.8
ISC Event type ke.
CSEM Event type ke.
BUC Event type ke.
ISCJB Event type ke.
BUC II 16 03 01 21.6–.86 45.51N 26.28E 138–8 3.5
CSEM II 16 03 01 21.6 45.51N 26.28E 138 3.5 ¶600743862
BUC Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=321.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BUC II 16 11 03 44.6–.84 46.97N 22.29E 5–5 2.8
¶600743863

BUC Event type ke. Error ellipse: s-maj=6.8km s-min=3.3km az=329.0.
ISC II 17 19 28 44.2–1.2 47.58N–.04 22.39E–.03 9–12 33 1-2
BUC II 17 19 28 44.0–.62 47.54N 22.43E 2 2.8 ¶600743873
SIGU II 17 19 28 45.7 47.69N 22.46E 6 1.7b
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=8.6km s-min=5.1km az=4.0.
ISC II 19 20 00 50.1–.63 45.82N–.02 26.76E–.02 75–4 3.5b 415 0-68
SIGU II 19 20 00 48.7 45.84N 26.76E 85 3.6b ¶17192548
ISCJB II 19 20 00 48.4–.16 45.82N–.01 26.78E–.02 90–2 3.5b
MOS II 19 20 00 48.6–1.4 45.94N 26.82E 60 4.3b
IDC II 19 20 00 49.7–.71 45.86N 26.68E 63–12 3.6,3.4
BUC II 19 20 00 49.9–.37 45.81N 26.75E 74–5 4.2,3.4
CSEM II 19 20 00 50.1–.07 45.81N 26.76E 73–1 4.2,3.4
SOF II 19 20 00 50.1 45.72N 26.60E 68 3.1,3.4
BEO II 19 20 00 54.0–.95 45.34N 26.16E 0 3.1,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=146.4.
MOS Error ellipse: s-maj=9.0km s-min=5.6km az=116.1.
IDC Error ellipse: s-maj=20.7km s-min=18.0km az=145.0.
BUC Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=36.0.
BEO Event type ke.
ISC II 21 08 55 21.3–1.2 45.17N–.02 23.13E–.02 4–10 111 0-3
ISCJB II 21 08 55 21.8–.47 45.16N–.02 23.11E–.03 9–3 ¶600743893
CSEM II 21 08 55 21.9–.13 45.16N 23.13E 5 2.3L
BUC II 21 08 55 21.9–.52 45.21N 23.19E 6–5 3.0
BEO II 21 08 55 22.3–.52 45.18N 23.11E 11–2 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=40.9.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=131.0.
BUC Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=35.0.
BEO Event type ke.
BUC II 23 13 15 28.0–.56 46.32N 23.06E 4–3 2.2
¶600743903

BUC Event type ke. Error ellipse: s-maj=3.7km s-min=1.1km az=98.0.
BUC II 25 04 02 40.7–.24 45.51N 26.55E 120 2.8
¶600743912

BUC Event type ke. Error ellipse: s-maj=6.5km s-min=4.2km az=46.0.
ISC III 08 11 52 58.1–1.0 45.01N–.02 22.37E–.03 7–10 53 0-2
BUC III 08 11 52 57.4–.89 45.03N 22.38E 7–14 2.5 ¶600759339
CSEM III 08 11 52 58.2–.18 45.01N 22.35E 2 1.6L
BEO III 08 11 52 59.4–.42 45.00N 22.30E 6–4 1.6
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=8.8km s-min=6.2km az=110.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.9km az=121.0.
BEO Event type ke.
BUC III 09 12 13 57.2–1.1 45.29N 25.03E 12–6 2.0
¶600759342

BUC Event type ke. Error ellipse: s-maj=6.4km s-min=1.6km az=77.0.
BUC III 12 10 40 08.6–.77 46.92N 22.84E 7–4 2.5
¶600759351

BUC Event type ke. Error ellipse: s-maj=10.8km s-min=4.7km az=133.0.
BUC III 14 09 11 50.2–.92 45.65N 26.73E 151–8 3.6
CSEM III 14 09 11 50.2 45.65N 26.73E 151 3.6 ¶600759357
BUC Event type ke. Error ellipse: s-maj=6.5km s-min=5.7km az=47.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC III 14 09 13 37.6–.00 44.86N–.02 22.35E–.01 7–8 213 0-5
SIGU III 14 09 13 35.2–.20 44.79N–.01 22.27E–.01 4 3.3b ¶600759358
ISCJB III 14 09 13 36.4–.36 44.85N–.02 22.33E–.02 5–3 3.3b
BUC III 14 09 13 37.1–.46 44.93N 22.43E 5 3.8
CSEM III 14 09 13 37.4–.12 44.85N 22.35E 10 3.8
BEO III 14 09 13 37.3–.80 44.84N 22.45E 12–4 3.5
SOF III 14 09 13 38.0 44.95N 22.40E 10 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=171.5.
BUC Event type ke. Error ellipse: s-maj=4.4km s-min=4.1km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=155.0.
BEO Event type ke.
BUC III 15 16 18 41.8–.37 46.91N 22.54E 6–1 2.7
¶600759368

BUC Event type ke. Error ellipse: s-maj=2.8km s-min=1.5km az=129.0.
ISC III 18 09 42 33.1–1.2 44.98N–.02 22.45E–.03 7–15 43 0-2
CSEM III 18 09 42 33.7–.34 44.98N 22.44E 2 1.4L ¶600759376
BEO III 18 09 42 34.0–.44 44.99N 22.44E 12–7 1.4
BUC III 18 09 42 34.5–.48 45.04N 22.36E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.9km az=110.0.
BEO Event type ke.
BUC Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=330.0.
BUC III 22 07 25 22.5–.66 45.62N 26.47E 153–5 2.9
¶600759384

BUC Event type ke. Error ellipse: s-maj=6.5km s-min=3.4km az=16.0.
BUC III 24 02 08 09.7–.56 45.82N 27.46E 3 2.3
¶600759388

BUC Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=39.0.
BUC III 24 04 33 53.9–.71 45.75N 26.57E 151–6 3.4
CSEM III 24 04 33 53.9 45.75N 26.57E 151 3.4 ¶600759389
BUC Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=336.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 24 11 02 25.1–.91 45.60N–.01 22.80E–.01 10–7 177 0-4
BUC III 24 11 02 24.6–.82 45.60N 22.85E 2–8 3.5 ¶600759391
CSEM III 24 11 02 25.3–.12 45.58N 22.79E 2 2.8L
BEO III 24 11 02 26.2–.34 45.57N 22.77E 8–2 2.8
SIGU III 24 11 02 28.4–.50 45.50N–.02 23.08E–.03 2 2.6b
ISC Event type ke.
BUC Event type ke.
CSEM Event type ke.
BEO Event type ke.
BUC III 25 09 27 08.8–.53 45.28N 25.30E 3–3 2.6
¶600759397

BUC Event type ke. Error ellipse: s-maj=6.1km s-min=1.3km az=358.0.
BUC III 25 09 40 36.3–.68 45.64N 22.84E 0–12 2.5
¶600759399

BUC Event type ke. Error ellipse: s-maj=11.4km s-min=3.7km az=7.0.
ISC III 25 12 01 23.0–1.0 45.55N–.01 22.87E–.01 6–8 184 0-4
SIGU III 25 12 01 18.8–.30 44.99N–.02 22.67E–.02 2 2.7b ¶600759403
CSEM III 25 12 01 22.8–.11 45.56N 22.85E 2 3.1L
BUC III 25 12 01 22.2–.59 45.54N 22.86E 6–5 3.5
BEO III 25 12 01 23.4–.37 45.56N 22.87E 7–1 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=138.0.
BUC Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=10.0.
BEO Event type ke.
ISC III 25 15 12 25.2–.96 45.60N–.01 22.82E–.01 8–7 256 0-67
IDC III 25 15 12 24.0–1.2 45.43N 22.69E 0 3.6,3.6L ¶17198517
BUC III 25 15 12 24.4–.78 45.60N 22.85E 1–8 4.0,3.6L
BEO III 25 15 12 24.4–.37 45.62N 22.90E 0 3.6,3.6L
SIGU III 25 15 12 24.4–.20 45.40N–.01 22.82E–.02 2 3.4b,3.6L
CSEM III 25 15 12 25.1–.12 45.59N 22.81E 2 3.6L,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=18.8km s-min=7.1km az=19.0.
BUC Event type ke. Error ellipse: s-maj=5.5km s-min=5.0km az=35.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=112.0.
BUC III 27 07 45 51.8–1.2 45.04N 22.87E 2 1.7
¶600759414

BUC Event type ke. Error ellipse: s-maj=10.7km s-min=2.6km az=113.0.
ISC IV 01 07 54 33.1–1.5 45.76N–.03 26.70E–.03 139–8 99 0-3
ISCJB IV 01 07 54 33.7–.75 45.74N–.03 26.73E–.05 132–5 ¶600825517
CSEM IV 01 07 54 33.7 45.75N 26.70E 137 3.9
BUC IV 01 07 54 33.7–.85 45.75N 26.70E 137–7 3.9
SOF IV 01 07 54 39.0 45.21N 26.80E 1 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.2km az=136.2.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BUC Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=9.0.
BUC IV 03 18 58 34.0–.50 45.50N 26.94E 26–5 2.2
¶600825521

BUC Event type ke. Error ellipse: s-maj=8.3km s-min=5.0km az=27.0.
BUC IV 04 04 01 55.9–.28 45.53N 27.03E 26–4 2.5
¶600825523

BUC Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=52.0.
ISC IV 05 09 24 25.4–1.1 45.00N–.02 22.37E–.02 9–11 47 0-3
BUC IV 05 09 24 26.2–.67 45.04N 22.34E 3 2.6 ¶600825527
BEO IV 05 09 24 26.7–.37 44.98N 22.30E 0 1.7
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=324.0.
BEO Event type ke.
BUC IV 06 10 44 26.7–.47 45.29N 25.15E 5–7 2.0
¶600825536

BUC Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=72.0.
BUC IV 16 01 31 02.0–1.1 45.68N 26.38E 168–9 3.0
CSEM IV 16 01 31 02.0 45.68N 26.38E 168 3.0 ¶600825563
BUC Event type ke. Error ellipse: s-maj=8.0km s-min=6.9km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 17 11 41 05.0–.61 45.65N–.02 26.44E–.02 124–4 3.6b 292 0-68
SIGU IV 17 11 41 01.8 45.72N 26.46E 136 3.3b ¶17201313
ISCJB IV 17 11 41 02.8–.20 45.68N–.01 26.42E–.02 122–2 3.6b
BUC IV 17 11 41 03.8–.54 45.63N 26.44E 124–6 4.3
CSEM IV 17 11 41 04.0–.18 45.62N 26.42E 120–2 4.3
IDC IV 17 11 41 05.6–1.1 45.81N 26.36E 114–9 3.6,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=159.4.
BUC Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=339.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=158.0.
IDC Error ellipse: s-maj=16.5km s-min=15.6km az=125.0.
BUC IV 18 14 25 50.8–.50 46.02N 21.87E 7 2.4
¶600825568

BUC Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=101.0.
ISC IV 19 21 44 44.4–1.1 46.16N–.01 27.14E–.02 5–9 148 0-6
SIGU IV 19 21 44 43.9 46.16N 27.13E 6 3.0b ¶600825575
BUC IV 19 21 44 43.7–.54 46.17N 27.14E 9–6 3.7
CSEM IV 19 21 44 43.7 46.17N 27.14E 9 3.7
ISCJB IV 19 21 44 44.2–.51 46.18N–.02 27.14E–.03 5–3 3.7
ISC Event type ke.
BUC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 20 10 41 51.5–1.1 44.96N–.02 22.46E–.03 9–10 50 0-4
BUC IV 20 10 41 51.9–.70 44.87N 22.41E 27–9 2.5 ¶600825577
CSEM IV 20 10 41 52.1–.23 44.99N 22.42E 2 1.5L
BEO IV 20 10 41 52.9–.34 45.01N 22.38E 0 1.5
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=9.7km s-min=4.3km az=353.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=122.0.
BEO Event type ke.
BUC IV 21 21 00 11.2–.39 45.71N 21.38E 11–4 2.3

CSEM IV 21 21 00 11.8–.29 45.70N 21.40E 2 1.5L ¶600825585
BEO IV 21 21 00 13.6–.47 45.60N 21.41E 0 1.5
BUC Event type ke. Error ellipse: s-maj=4.4km s-min=2.8km az=28.0.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=131.0.
BEO Event type ke.
ISC IV 22 00 49 39.7–.96 45.23N–.03 23.59E–.02 10–8 59 0-3
BUC IV 22 00 49 38.3–1.3 45.17N 23.63E 5–10 2.5 ¶600825586
CSEM IV 22 00 49 39.5–.22 45.23N 23.58E 2 1.8L
BEO IV 22 00 49 43.3–.69 45.28N 23.32E 8–3 1.8
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=10.7km s-min=5.1km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=157.0.
BEO Event type ke.
BUC IV 22 22 48 01.4–1.2 45.13N 23.59E 4–7 2.3
¶600825593
BUC Event type ke. Error ellipse: s-maj=10.2km s-min=5.2km az=356.0.
BUC IV 22 23 36 57.3–.32 45.11N 23.53E 5 1.8
¶600825596
BUC Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=358.0.
BUC IV 24 09 44 00.6–.58 45.36N 26.96E 3 3.2
CSEM IV 24 09 44 00.6 45.36N 26.96E 3 3.2 ¶600825606
BUC Event type ke. Error ellipse: s-maj=6.5km s-min=4.5km az=103.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 29 12 32 56.0–.99 45.46N–.02 22.47E–.02 7–9 50 0-3
CSEM IV 29 12 32 55.7–.17 45.44N 22.47E 1–2 1.5L ¶600825621
BUC IV 29 12 32 55.2–.52 45.42N 22.45E 10–4 2.6
BEO IV 29 12 32 57.1–.31 45.48N 22.48E 0 1.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=175.0.
BUC Event type ke. Error ellipse: s-maj=6.4km s-min=3.7km az=11.0.
BEO Event type ke.
ISC V 01 02 24 16.5–.24 45.62N–.02 26.42E–.02 140–2 4.6b 1481 0-144
PRU V 01 02 24 05.4 45.49N 27.95E 109 4.7 ¶16485948
BEO V 01 02 24 12.6–2.1 45.56N 26.52E 0 4.8
PDG V 01 02 24 14.7–.70 45.59N 26.40E 150–2 4.4L
MOS V 01 02 24 14.6–.92 45.58N 26.44E 135 4.7b
SOF V 01 02 24 14.9 45.53N 26.35E 141 4.4
SIGU V 01 02 24 14.3 45.60N 26.53E 157 4.5b
CSEM V 01 02 24 15.9–.05 45.58N 26.41E 141 4.6b,3.2s
BUC V 01 02 24 15.8–.57 45.58N 26.44E 146–6 5.3,3.2s
ISCJB V 01 02 24 15.1–.08 45.577N–.01 26.41E–.01 141–1 4.4b,3.2s
NEIC V 01 02 24 16.1 45.58N 26.46E 138 4.6b,3.2s
IDC V 01 02 24 16.3–.29 45.61N 26.26E 139–2 4.5,4.1
ISK V 01 02 24 27.4 44.44N 27.07E 5 4.5L,4.1
ISC Event type fe.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.6km az=0.0.
MOS Event type fe. Error ellipse: s-maj=4.1km s-min=3.1km az=105.1. Felt (IV) at Kishinev. Moment Tensor Solution.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=40.0.
BUC Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=355.0.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.3km az=43.9.
NEIC Event type fe. Felt [II] at Bucharest. Also felt at Barcani, Tecuci, Vaslui and Voluntari. Felt at Ruse and Silistra, Bulgaria and at Cahul and Ialoveni, Moldova. After BUC.
IDC Error ellipse: s-maj=8.4km s-min=6.3km az=163.0.
ISC V 03 16 25 40.8–.83 45.76N–.01 27.12E–.02 30–3 222 0-6
IASPE V 03 16 25 40.9–.87 45.78N–.02 27.11E–.02 29–4 ¶600916682
ISCJB V 03 16 25 40.9–.31 45.77N–.02 27.11E–.02 29–3
BUC V 03 16 25 40.7–.48 45.77N 27.10E 29–5 3.6
CSEM V 03 16 25 41.2–.16 45.78N 27.10E 24–1 3.6
SIGU V 03 16 25 41.8 45.57N 27.44E 25 3.2b
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=21.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=38.3.
BUC Event type ke. Error ellipse: s-maj=7.2km s-min=5.2km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=49.0.
BUC V 07 22 03 52.7–.67 45.69N 26.43E 161–6 3.6
CSEM V 07 22 03 52.7 45.69N 26.43E 161 3.6 ¶600916781
BUC Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=131.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BUC V 10 07 27 21.6–.13 46.05N 22.84E 8–1 2.2
¶600916843
BUC Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=78.0.
BUC V 10 08 54 55.5–.88 45.24N 25.39E 4–5 2.6
¶600916845
BUC Event type ke. Error ellipse: s-maj=10.2km s-min=2.2km az=359.0.
ISC V 19 00 01 57.5–1.2 45.11N–.01 25.65E–.01 10–10 260 0-6
THE V 19 00 01 51.7 45.53N 25.59E 14–22 3.3L ¶16882289
BUC V 19 00 01 58.6–.45 45.13N 25.67E 25–4 3.5
SIGU V 19 00 01 58.4–.10 45.15N–.01 25.63E–.01 14 3.1b
SOF V 19 00 01 58.0 45.05N 25.65E 15 2.9
CSEM V 19 00 01 59.1–.15 45.11N 25.64E 25–1 3.5
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=30.9km s-min=2.3km az=6.0.
BUC Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=174.0.
BUC V 20 08 29 47.8–1.6 46.95N 22.30E 2 2.3
¶600917123
BUC Event type ke. Error ellipse: s-maj=14.3km s-min=5.7km az=356.0.
BUC V 20 09 34 52.4–1.2 45.19N 25.05E 7–5 2.3
¶600917124
BUC Event type ke. Error ellipse: s-maj=11.5km s-min=4.2km az=11.0.
BUC V 21 08 43 25.9–.96 45.66N 26.33E 5–10 1.8
¶600917146
BUC Event type ke. Error ellipse: s-maj=4.1km s-min=0.9km az=328.0.
ISC V 21 13 08 31.1–1.1 44.62N–.02 22.34E–.02 1–10 106 0-3
CSEM V 21 13 08 31.7–.12 44.64N 22.29E 2 2.2L ¶600917148
BEO V 21 13 08 31.8–.36 44.64N 22.35E 4–4 2.2
BUC V 21 13 08 32.7–.76 44.75N 22.35E 4–6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=131.0.
BEO Event type ke.
BUC Event type ke. Error ellipse: s-maj=8.1km s-min=4.4km az=6.0.
BUC V 30 09 26 04.5–.09 44.37N 28.32E 12–0 2.2
¶600917427
BUC Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=317.0.
BUC V 30 12 03 02.0–.43 45.13N 23.15E 5 2.5
¶603241720
BUC Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=111.0.
BUC V 30 22 46 11.1–1.3 45.36N 26.20E 153–10 3.0
CSEM V 30 22 46 11.1 45.36N 26.20E 153 3.0 ¶600917431
BUC Event type ke. Error ellipse: s-maj=10.5km s-min=7.6km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BUC V 31 19 10 19.5–.87 45.79N 27.36E 4 2.3
¶600917472
BUC Event type ke. Error ellipse: s-maj=11.6km s-min=2.5km az=29.0.
BUC VI 05 05 31 29.2–.33 45.79N 26.71E 84 2.5
¶601078416
BUC Event type ke. Error ellipse: s-maj=6.6km s-min=3.6km az=18.0.
ISC VI 09 21 08 32.0–.61 45.79N–.01 27.20E–.01 17–5 184 0-39
IDC VI 09 21 08 30.4–1.1 45.66N 27.26E 0 3.7b,3.5 ¶17205662
CSEM VI 09 21 08 32.7–.13 45.78N 27.18E 12 3.3,3.5
BUC VI 09 21 08 32.4–.77 45.77N 27.17E 16–6 3.3,3.5
SIGU VI 09 21 08 32.3 45.78N 27.18E 10 3.1b,3.5
ISCJB VI 09 21 08 33.3–.33 45.78N–.01 27.18E–.03 19–3 3.5b,3.5
ISC Event type ke.
CSEM Event type ke.
BUC Event type ke.
ISCJB Event type ke.
BUC VI 12 23 42 35.8–1.0 45.82N 27.25E 15–10 2.2
¶601078514
BUC Event type ke. Error ellipse: s-maj=12.9km s-min=4.9km az=53.0.
ISC VI 14 10 48 49.1–.75 45.69N–.02 26.54E–.02 151–4 3.7b 230 0-47
ISCJB VI 14 10 48 48.3–.25 45.68N–.02 26.55E–.03 148–2 3.7b ¶17206110
CSEM VI 14 10 48 48.7–.23 45.67N 26.52E 148–2 4.2
SIGU VI 14 10 48 48.0 45.69N 26.57E 155 3.7b
IDC VI 14 10 48 49.6–.70 45.80N 26.33E 144–7 3.8,3.5b
BUC VI 14 10 48 49.0–.65 45.70N 26.52E 152–9 4.2,3.5b
BEO VI 14 10 48 52.9–1.7 45.59N 26.36E 86–2 3.3,3.5b
SOF VI 14 10 48 54.7 45.22N 26.25E 15 3.3,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.9km az=37.8.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=173.0.
IDC Error ellipse: s-maj=32.8km s-min=13.3km az=130.0.
BUC Event type ke. Error ellipse: s-maj=8.0km s-min=6.6km az=126.0.
BEO Event type ke.
BUC VI 14 23 14 31.9–.28 45.82N 27.23E 6–10 2.2
¶601078525
BUC Event type ke. Error ellipse: s-maj=5.9km s-min=1.6km az=48.0.
BUC VI 16 09 09 52.9–.42 45.68N 27.00E 24–5 3.1
CSEM VI 16 09 09 52.9 45.68N 27.00E 24 3.1 ¶601078565
BUC Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 18 02 12 21.3–.81 45.79N–.02 21.50E–.02 13–5 134 0-5
BEO VI 18 02 12 20.6–.72 45.83N 21.57E 7–2 2.5 ¶601078615
ISCJB VI 18 02 12 21.2–.38 45.83N–.02 21.42E–.03 12–2 2.5
CSEM VI 18 02 12 21.6–.12 45.81N 21.42E 10 2.3L
BUC VI 18 02 12 21.2–.25 45.80N 21.48E 12–3 2.4
ISC Event type ke.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=103.0.
BUC Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=104.0.
BUC VI 21 00 50 02.4–.86 44.75N 28.52E 2 1.9
¶601078639
BUC Event type ke. Error ellipse: s-maj=10.4km s-min=4.4km az=104.0.
BUC VI 21 09 11 07.3–.83 45.28N 25.37E 3–7 2.6
¶601078640
BUC Event type ke. Error ellipse: s-maj=9.2km s-min=2.9km az=354.0.
BUC VI 21 22 11 48.6–.35 45.31N 25.04E 17 2.0
¶601078646
BUC Event type ke. Error ellipse: s-maj=8.1km s-min=3.6km az=101.0.
BUC VI 21 22 12 16.5–.58 45.46N 26.95E 29–6 2.3
¶601078643
BUC Event type ke. Error ellipse: s-maj=9.9km s-min=6.2km az=48.0.
BUC VI 22 04 58 04.3–.71 45.84N 26.26E 11–12 2.1
¶601078658
BUC Event type ke. Error ellipse: s-maj=8.9km s-min=1.3km az=326.0.
BUC VI 22 11 06 15.2–.53 45.18N 25.05E 36–7 2.5
¶601078660
BUC Event type ke. Error ellipse: s-maj=6.7km s-min=5.9km az=338.0.
ISC VI 23 15 48 04.1–1.1 45.00N–.02 22.42E–.02 6–10 63 0-2
BUC VI 23 15 48 04.0–.84 45.03N 22.35E 2 2.6 ¶601078674
BEO VI 23 15 48 05.6–.37 44.98N 22.33E 0 1.5
CSEM VI 23 15 48 05.0–.20 45.01N 22.34E 2 1.5L
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=9.1km s-min=5.2km az=324.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=126.0.
ISC VI 23 21 19 56.6–1.1 44.86N–.02 22.38E–.02 3–10 118 0-4
BUC VI 23 21 19 56.9–.61 44.92N 22.40E 2 3.2 ¶601078676
BEO VI 23 21 19 57.8–.44 44.84N 22.41E 5–2 2.2
CSEM VI 23 21 19 57.0–.14 44.84N 22.38E 2 2.2L
ISC Event type ke.
BUC Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=352.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=128.0.
BUC VI 24 07 14 17.4–.65 46.10N 22.87E 4–7 2.4
¶601078681
BUC Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=108.0.
ISC VI 24 13 06 35.8–1.2 47.46N–.02 25.86E–.03 5–11 38 0-3
BUC VI 24 13 06 35.6–.68 47.49N 25.87E 2 2.9 ¶601078683
SIGU VI 24 13 06 37.0–.10 47.45N–.01 25.84E–.01 2 2.6b
ISC Event type ke.
BUC Event type ke.
ISC VI 24 13 08 39.0–.99 47.37N–.02 25.83E–.01 11–7 4.0b,3.6s 399 0-145
ISCJB VI 24 13 08 36.9–.54 47.45N–.01 25.96E–.02 2–3 3.9b,3.5s ¶16683614
MOS VI 24 13 08 37.8–.97 47.37N 25.91E 15 4.3b,3.5s
IDC VI 24 13 08 37.7–.48 47.31N 25.83E 0 4.2L,4.1
CSEM VI 24 13 08 39.5–.10 47.46N 25.88E 10 4.6,4.1
BUC VI 24 13 08 39.5–.90 47.35N 25.82E 8–7 4.6,4.1
SIGU VI 24 13 08 39.8–.10 47.40N–.01 25.84E–.01 10 4.4b,4.1
NEIC VI 24 13 08 40.0 47.38N 25.81E 6 4.5L,4.4b
PRU VI 24 13 08 43.4 47.36N 25.61E 17 4.4,4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=35.7.
MOS Error ellipse: s-maj=7.3km s-min=4.6km az=132.7.
IDC Error ellipse: s-maj=8.0km s-min=7.1km az=75.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=35.0.
BUC Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=14.0.
NEIC Event type se. After BUC.
ISC VI 24 13 31 29.2–1.2 47.40N–.02 25.79E–.03 6–12 41 0-2
BUC VI 24 13 31 28.3–.73 47.40N 25.85E 2 2.8 ¶601078684
SIGU VI 24 13 31 29.3–.10 47.39N–.01 25.76E–.01 5 2.2b
ISC Event type ke.
BUC Event type ke.
ISC VI 25 00 13 47.6–1.0 47.35N–.02 25.77E–.02 8–9 74 0-3
ISCJB VI 25 00 13 47.7–.68 47.37N–.02 25.78E–.03 4–5 ¶601078688
BUC VI 25 00 13 47.2–.53 47.33N 25.74E 5–6 3.0
CSEM VI 25 00 13 47.2 47.33N 25.74E 5 3.0
SIGU VI 25 00 13 49.4–.20 47.48N–.01 25.78E–.01 5 1.9b
ISC Event type ke.
ISCJB Event type ke.
BUC Event type ke.
CSEM Event type ke.
ISC VI 25 01 43 21.9–1.1 47.37N–.02 25.77E–.02 7–9 124 0-4
ISCJB VI 25 01 43 21.3–.58 47.38N–.02 25.81E–.03 2–4 ¶601078690
BUC VI 25 01 43 21.3–.70 47.34N 25.77E 7–6 3.2
SIGU VI 25 01 43 21.0–.10 47.38N–.01 25.82E–.01 2 2.3b
CSEM VI 25 01 43 21.7–.14 47.38N 25.78E 2 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=137.1.
BUC Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=25.0.
BUC VI 27 10 48 21.7–.36 45.73N 26.73E 72–3 2.3
¶601078696
BUC Event type ke. Error ellipse: s-maj=4.4km s-min=1.2km az=349.0.
BUC VI 28 23 08 17.4–.27 45.39N 26.52E 8–4 2.2
¶601078707
BUC Event type ke. Error ellipse: s-maj=2.3km s-min=1.3km az=131.0.
BUC VI 28 23 22 26.6–.54 45.83N 27.14E 19–0 2.1
¶601078708
BUC Event type ke. Error ellipse: s-maj=8.7km s-min=1.9km az=29.0.
BUC VI 30 09 11 03.9–.65 45.47N 25.33E 21–7 2.3
¶601078728
BUC Event type ke. Error ellipse: s-maj=9.9km s-min=3.0km az=350.0.
ISC VI 30 21 21 18.1–1.2 47.37N–.02 25.81E–.02 3–10 134 0-3
BUC VI 30 21 21 17.9–.74 47.34N 25.77E 4 3.0 ¶601078733
CSEM VI 30 21 21 17.9 47.34N 25.77E 4 3.0

ISCJB VI 30 21 21 18.5–.60 47.36N–.02 25.78E–.02 4–4 3.0
SIGU VI 30 21 21 18.1–.10 47.37N–.01 25.77E–.01 2 2.3b
ISC Event type ke.
BUC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
BUC VI 30 21 22 00.9–.98 47.37N 25.76E 4–9 2.9
¶601078736
BUC Event type ke. Error ellipse: s-maj=9.2km s-min=6.0km az=15.0.

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ISC I 05 17 14 27.1–1.1 42.05N–.02 23.62E–.02 9–9 93 0-5
SOF I 05 17 14 25.9 42.07N 23.65E 8 **¶601069891**
CSEM I 05 17 14 26.2–.14 42.08N 23.65E 2 2.8L
ISCJB I 05 17 14 26.1–.51 42.10N–.02 23.63E–.04 6–3 2.8L
BEO I 05 17 14 27.3–.74 42.05N 23.69E 14–3 2.7
THE I 05 17 14 27.6 42.02N 23.64E 2–2 2.8L
SKO I 05 17 14 28.4 42.05N 23.62E 15 2.6L,2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=1.7km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.6km az=161.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=1.1km az=356.0.
ISC I 08 11 20 07.6–1.0 42.22N–.01 26.22E–.02 10–9 311 0-7
DDA I 08 11 20 07.7 42.21N 26.48E 20 3.4 **¶16357904**
SOF I 08 11 20 07.2 42.22N 26.28E 8 3.4
CSEM I 08 11 20 07.8–.09 42.16N 26.19E 2 3.4L
ISK I 08 11 20 08.3 42.10N 26.22E 5 3.4L
THE I 08 11 20 08.9 42.12N 26.20E 5–9 3.5L
BEO I 08 11 20 11.8–.68 42.43N 25.89E 0 3.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=58.0.
THE Event type ke. Error ellipse: s-maj=12.8km s-min=1.5km az=41.0.
BEO Event type ke.
ISC I 14 00 31 22.5–1.0 42.10N–.02 26.17E–.02 12–9 120 0-5
ISCJB I 14 00 31 21.6–.73 42.14N–.02 26.19E–.03 2–6 **¶16358061**
SOF I 14 00 31 21.7 42.25N 26.23E 6
CSEM I 14 00 31 22.3–.16 41.97N 25.99E 2 3.1
ISK I 14 00 31 23.8 41.96N 26.26E 6 3.1
DDA I 14 00 31 25.5 42.01N 26.77E 4 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=138.3.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.4km az=49.0.
DDA Event type ke.
ISC I 24 12 14 46.7–1.1 42.07N–.03 25.20E–.02 12–9 90 0-6
DDA I 24 12 14 42.3 42.08N 24.98E 3 3.1 **¶601254547**
CSEM I 24 12 14 45.6–.20 42.06N 25.38E 2 2.9L
SOF I 24 12 14 46.3 42.15N 25.10E 2 2.9L
BEO I 24 12 14 47.3–.87 41.77N 25.06E 0 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=41.0.
BEO Event type ke.
ISC II 27 00 34 33.0–1.1 42.60N–.02 23.88E–.02 5–9 111 0-5
CSEM II 27 00 34 32.9–.24 42.59N 23.88E 2 2.5L **¶601070066**
SOF II 27 00 34 32.3 42.61N 23.89E 10 2.7
THE II 27 00 34 33.9 42.56N 23.79E 0–1 2.9L
BEO II 27 00 34 36.5–.63 42.50N 23.66E 6–2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=91.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=31.0.
BEO Event type ke.
THE III 12 20 20 36.0 42.05N 23.89E 8–0 1.8L
CSEM III 12 20 20 35.3–.87 42.09N 23.89E 10 1.8L **¶16872341**
ATH III 12 20 20 35.2 42.08N 23.82E 26–2 1.7L
SKO III 12 20 20 37.3 42.04N 23.75E 2 1.7L
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=199.0.
CSEM Event type ke. Error ellipse: s-maj=14.7km s-min=8.8km az=18.0.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=2.1km az=169.0. Analyst: Ch. Ventouzi ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 28 17 21 47.5–1.1 42.20N–.02 26.28E–.02 3–11 122 0-5
CSEM III 28 17 21 47.7–.22 42.24N 26.23E 2 2.8L **¶601070246**
THE III 28 17 21 47.9 42.18N 26.29E 0–1 2.8L
SOF III 28 17 21 48.0 42.21N 26.30E 5 3.0
DDA III 28 17 21 48.4 42.07N 26.02E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.4km az=34.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=41.0.
ISC III 28 18 04 07.4–1.1 42.19N–.02 26.25E–.02 1–9 295 0-40
CSEM III 28 18 04 07.5–.08 42.18N 26.23E 2 3.7L **¶16475550**
THE III 28 18 04 07.9 42.18N 26.30E 4–0 3.7L
DDA III 28 18 04 07.1 42.17N 26.04E 39 3.7L
IDC III 28 18 04 07.1–1.2 42.15N 26.31E 0 3.4b,3.4
SOF III 28 18 04 07.2 42.24N 26.20E 7 3.3,3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=58.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.2km az=41.0.
IDC Error ellipse: s-maj=22.9km s-min=11.2km az=65.0.
ISC III 28 18 19 32.3–1.1 42.26N–.02 26.29E–.02 2–10 84 0-5
SOF III 28 18 19 32.9 42.23N 26.26E 2 2.9 **¶16495786**
ISK III 28 18 19 33.0 42.18N 26.29E 5 3.0
CSEM III 28 18 19 34.9–.23 42.07N 26.27E 2 3.0
DDA III 28 18 19 35.9 41.88N 25.88E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.9km az=53.0.
ISC III 28 19 47 41.1–1.1 42.21N–.02 26.26E–.03 5–10 82 1-5
DDA III 28 19 47 41.3 42.13N 26.15E 6 **¶16495789**
CSEM III 28 19 47 43.5–.22 42.03N 26.11E 2 2.9
ISK III 28 19 47 46.6 41.89N 26.48E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.8km az=54.0.
ISC III 29 07 28 55.0–1.1 42.05N–.01 25.70E–.01 1–8 3.4b 383 0-73
IDC III 29 07 28 54.7–1.0 42.01N 25.70E 0 3.6,3.5 **¶16475631**
SOF III 29 07 28 55.0 42.02N 25.76E 10 3.3,3.5
CSEM III 29 07 28 55.9–.08 42.02N 25.67E 2 3.7L,3.5
ATH III 29 07 28 55.1 42.03N 25.71E 19–2 3.8L,3.5
THE III 29 07 28 56.0 42.01N 25.78E 3–1 3.8L,3.5
BEO III 29 07 28 56.6–.99 42.18N 25.73E 10–4 3.7,3.5
ISK III 29 07 28 57.6 41.97N 25.91E 8 3.7L,3.5
DDA III 29 07 28 57.7 41.87N 25.60E 37 3.7L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=13.2km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=43.0.
ATH Event type ke. Error ellipse: s-maj=4.7km s-min=1.7km az=204.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=28.0.
BEO Event type ke.
ISC III 29 08 18 02.2–1.1 42.05N–.02 25.76E–.02 5–9 99 0-8
CSEM III 29 08 18 01.5–.12 42.08N 25.76E 2 2.6L **¶16872591**
SOF III 29 08 18 01.6 42.02N 25.77E 8 2.5
THE III 29 08 18 02.3 42.08N 25.79E 8–31 2.6L
ATH III 29 08 18 02.7 42.02N 25.65E 16–2 2.4L
DDA III 29 08 18 03.6 42.02N 25.98E 7 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=24.0.
THE Event type ke. Error ellipse: s-maj=31.6km s-min=0.9km az=0.0.
ATH Event type ke. Error ellipse: s-maj=5.1km s-min=1.7km az=206.0. Analyst: Plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 29 09 46 31.2–1.1 42.04N–.02 25.77E–.02 1–10 111 0-5
ATH III 29 09 46 32.0 42.03N 25.70E 16–3 2.4L **¶16872593**
SOF III 29 09 46 31.4 42.03N 25.78E 2 2.5
CSEM III 29 09 46 32.3–.22 42.01N 25.72E 2 2.6L
THE III 29 09 46 33.8 41.94N 25.81E 10–2 2.6L
DDA III 29 09 46 33.7 41.99N 25.90E 7 2.6L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.4km s-min=2.0km az=205.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=26.0.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=0.5km az=34.0.
ISC III 29 17 03 28.6–1.1 42.20N–.01 26.23E–.02 5–9 145 0-5
ISK III 29 17 03 28.8 42.10N 26.27E 5 3.0 **¶16495826**
SOF III 29 17 03 28.0 42.17N 26.29E 7 2.8
CSEM III 29 17 03 29.0–.13 42.17N 26.22E 2 3.0
THE III 29 17 03 30.0 42.10N 26.25E 0–2 2.9L
DDA III 29 17 03 34.7 41.89N 26.84E 8 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=56.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=12.0.
ISC III 29 17 07 19.2–1.1 42.20N–.02 26.25E–.02 6–10 127 0-5
SOF III 29 17 07 19.3 42.21N 26.27E 3 2.6 **¶16495827**
CSEM III 29 17 07 20.3–.14 42.18N 26.24E 2 2.5L
ISK III 29 17 07 20.7 42.08N 26.27E 3 3.0
THE III 29 17 07 21.6 42.09N 26.36E 0–1 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=40.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=8.0.
ISC III 30 11 22 30.4–1.2 42.23N–.03 26.27E–.02 5–10 76 0-5
ISCJB III 30 11 22 30.4–.63 42.22N–.03 26.27E–.03 7–5 **¶16495850**
SOF III 30 11 22 30.4 42.18N 26.28E 6 2.7
CSEM III 30 11 22 31.0–.11 42.20N 26.27E 5 2.7L
DDA III 30 11 22 32.3 42.08N 26.58E 8 2.7L
ISK III 30 11 22 32.9 42.08N 26.38E 11 2.7L
THE III 30 11 22 33.5 42.13N 26.20E 9–11 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=37.2.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=25.0.
THE Event type ke. Error ellipse: s-maj=15.6km s-min=1.4km az=35.0.
ISC IV 01 19 43 16.4–.80 42.16N–.02 26.22E–.03 10 63 0-5
CSEM IV 01 19 43 15.8–.11 42.18N 26.17E 2 2.9 **¶16647941**
ISK IV 01 19 43 17.3 42.08N 26.30E 5 2.9
ISCJB IV 01 19 43 19.5–.45 42.02N–.03 26.36E–.06 10 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 01 19 44 11.9–.64 42.13N–.02 26.25E–.02 10 85 0-5
ISCJB IV 01 19 44 10.6–.28 42.17N–.02 26.20E–.03 10 **¶16647944**
SOF IV 01 19 44 10.0 42.21N 26.23E 6 2.7
CSEM IV 01 19 44 12.2–.24 42.08N 26.37E 2 3.2
ISK IV 01 19 44 12.2 42.06N 26.39E 6 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=150.2.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.1km az=66.0.
ISC IV 02 00 07 46.8–1.2 43.21N–.02 25.99E–.02 0–11 89 0-4
BEO IV 02 00 07 45.8–.79 43.37N 26.06E 0 2.8 **¶601258541**
SOF IV 02 00 07 46.5 43.26N 26.03E 3 2.7
CSEM IV 02 00 07 48.5–.36 43.22N 25.93E 10 2.8L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=4.4km az=156.0.
ISC IV 13 21 39 38.1–.66 42.23N–.02 26.25E–.02 5–7 96 0-5
SOF IV 13 21 39 39.1 42.27N 26.22E 2 2.5 **¶16648649**
CSEM IV 13 21 39 39.3–.12 42.07N 26.08E 2 2.8L
ISK IV 13 21 39 40.6 41.96N 26.30E 5 2.8L
DDA IV 13 21 39 41.5 42.04N 26.53E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=57.0.
ISC IV 13 21 47 54.9–.82 42.15N–.02 26.32E–.02 10 53 0-3
ISCJB IV 13 21 47 55.8–.41 42.09N–.03 26.26E–.04 10 **¶16648650**
SOF IV 13 21 47 55.3 42.22N 26.23E 4 2.7
CSEM IV 13 21 48 00.9–.47 41.82N 26.50E 16–3 2.3L
ISK IV 13 21 48 00.2 41.83N 26.49E 18 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=39.4.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=8.2km az=52.0.
ISC VI 03 12 05 20.7–2.3 42.84N–.08 24.8E–.10 20–5 27 2-3
BEO VI 03 12 05 28.5–.82 42.62N 24.17E 23–7 2.5 **¶600917572**
ATH VI 03 12 05 43.3 41.53N 23.93E 37–1 1.7L
CSEM VI 03 12 05 43.3 41.53N 23.93E 37 1.7L
ISC Event type ke.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.2km s-min=1.6km az=189.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 06 02 25 25.0–1.0 42.20N–.01 26.24E–.02 7–9 226 0-5
DDA VI 06 02 25 21.5 42.30N 26.04E 16 3.4L **¶16882850**
SOF VI 06 02 25 24.9 42.22N 26.24E 5 3.4
CSEM VI 06 02 25 24.7–.11 42.23N 26.27E 2 3.2L
THE VI 06 02 25 25.0 42.24N 26.32E 8–1 3.4L
ISK VI 06 02 25 26.6 42.14N 26.41E 10 3.2L
ATH VI 06 02 25 30.7 41.88N 25.88E 27–1 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.8km az=25.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=29.0.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.1km az=60.0.
ISC VI 06 12 01 26.5–1.3 42.23N–.03 26.26E–.02 5–14 58 0-5
ISCJB VI 06 12 01 26.7–.64 42.21N–.03 26.24E–.04 0–6 **¶17555580**
CSEM VI 06 12 01 26.3–.33 42.28N 26.30E 2 3.0
SOF VI 06 12 01 27.8 42.22N 26.24E 8 2.7
ISK VI 06 12 01 28.7 42.18N 26.46E 21 3.0
BEO VI 06 12 01 28.7–2.5 42.42N 26.14E 0 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=37.2.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=4.5km az=34.0.
BEO Event type ke.
ISC VI 12 02 39 38.6–1.2 42.74N–.03 23.14E–.02 6–10 72 0-4
SOF VI 12 02 39 37.8 42.71N 23.06E 1 2.5 **¶601258978**
CSEM VI 12 02 39 38.4–.42 42.76N 23.14E 2 2.2L
BEO VI 12 02 39 39.0–.72 42.72N 23.15E 7–2 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=6.4km az=70.0.
BEO Event type ke.
ISC VI 24 17 32 41.8–1.1 42.20N–.02 26.36E–.02 8–10 111 0-5
ATH VI 24 17 32 40.6 42.24N 26.24E 11–3 2.7L **¶16881019**
CSEM VI 24 17 32 42.7–.29 42.16N 26.22E 2 3.3
SOF VI 24 17 32 42.3 42.24N 26.23E 3 2.9
THE VI 24 17 32 43.8 42.12N 26.32E 12–1 3.0L
ISK VI 24 17 32 44.0 42.04N 26.35E 2 3.3
DDA VI 24 17 32 53.3 42.15N 26.55E 10 3.2
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.7km az=88.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.3km az=1.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.6km az=36.0.
ISC VI 24 17 44 49.5–1.0 42.19N–.01 26.21E–.02 6–8 3.7b 436 1-40
ATH VI 24 17 44 42.8 42.45N 26.79E 8–2 4.1L **¶16704929**
DDA VI 24 17 44 45.1 42.32N 26.12E 8 3.8L
IDC VI 24 17 44 48.7–.93 42.13N 26.22E 0 3.8b,3.6
CSEM VI 24 17 44 49.6–.08 42.20N 26.22E 2 3.8L,3.6
NEIC VI 24 17 44 49.6 42.16N 26.26E 0 4.1L,3.7L
ISK VI 24 17 44 49.6 42.13N 26.32E 5 3.8L,3.7L
THE VI 24 17 44 49.6 42.16N 26.26E 0–1 4.1L,3.7L
PRU VI 24 17 44 50.4 41.96N 25.71E 0 4.1L,3.7L
BEO VI 24 17 44 50.0–.66 42.20N 26.17E 0 4.3,3.7L

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=2.1km az=61.0.
DDA Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=10.3km az=63.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=50.0.
NEIC Event type se. After THE.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=10.0.
BEO Event type ke.

ISC	**VI**	**24 17 47 32.1–1.2**	**42.24N–.03**	**26.34E–.03**	**8–10**		**66**	**0-3**
SOF	VI	24 17 47 32.6	42.19N	26.27E	5	3.1		¶17556264
ISK	VI	24 17 47 35.7	42.05N	26.41E	6	3.1L		
CSEM	VI	24 17 47 36.4–.67	42.07N	26.39E	10	3.1L		
DDA	VI	24 17 48 39.1	41.95N	26.51E	22	3.2		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=7.5km az=153.0.

ISC	**VI**	**25 11 07 58.1–1.2**	**42.11N–.03**	**26.28E–.03**	**19–4**		**86**	**0-5**
BEO	VI	25 11 07 56.9–1.2	41.51N	25.99E	13–4	2.5		¶17556289
CSEM	VI	25 11 07 58.1–.18	42.22N	26.19E	10	2.7L		
ISK	VI	25 11 07 58.5	42.06N	26.30E	5	2.7L		
DDA	VI	25 11 08 25.6	41.98N	26.36E	23	3.2		

ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=50.0.
DDA Event type ke.

(360) Black Sea.

ISC	**I**	**05 05 45 52.1–1.2**	**42.18N–.03**	**32.50E–.03**	**26–14**		**84**	**1-8**
DDA	I	05 05 45 48.6	42.13N	32.44E	6	2.9		¶16357824
SIGU	I	05 05 45 49.7–.50	42.18N	32.38E	13–10	2.7b		
ISK	I	05 05 45 50.6	42.12N	32.57E	10	3.1		
CSEM	I	05 05 45 50.9–.18	42.17N	32.50E	10	3.1		
ISCJB	I	05 05 45 52.3–.36	42.22N–.03	32.42E–.04	44–38	3.1		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**17 02 13 27.0–1.0**	**43.56N–.03**	**36.26E–.02**	**19–3**	**3.9b**	**345**	**2-72**
IDC	III	17 02 13 24.6–.48	43.44N	36.27E	0	3.9,3.9		¶16427640
MOS	III	17 02 13 25.0–.90	43.57N	36.21E	11	4.1b,3.9		
NEIC	III	17 02 13 26.0–.37	43.62N	36.23E	10	4.0b,3.7L		
ISK	III	17 02 13 27.8	43.50N	36.34E	33	3.7L,3.7L		
CSEM	III	17 02 13 27.6–.09	43.54N	36.25E	20	4.0b,3.7L		
ISCJB	III	17 02 13 27.5–.24	43.53N–.02	36.27E–.02	35–5	3.8b,3.7L		
SIGU	III	17 02 13 27.7–.90	43.39N	36.13E	31–11	3.7b,3.7L		
DDA	III	17 02 13 30.1	43.12N	36.59E	21	3.7b,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=8.8km s-min=6.8km az=173.0.
MOS Error ellipse: s-maj=5.8km s-min=4.8km az=44.6.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.8km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=20.5.

(361) Crimea region.

SIGU	**I**	**12 01 56 56.4**	**44.12N**	**34.28E**	**20**			
								¶601783265

(362) Western Caucasus.

ISC	**I**	**02 12 09 36.2–.90**	**42.51N–.02**	**43.44E–.02**	**6–6**		**104**	**0-79**
MOS	I	02 12 09 35.7–1.3	42.51N	43.38E	17	3.8b		¶600243098
TIF	I	02 12 09 35.9	42.52N	43.46E	9–1	3.8b		
CSEM	I	02 12 09 36.1–.14	42.51N	43.45E	2	3.8b		
DDA	I	02 12 09 36.5	42.39N	43.43E	5	3.2		

ISC Event type ke.
MOS Error ellipse: s-maj=10.8km s-min=6.1km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=118.0.
DDA Event type ke.

ISC	**I**	**04 04 28 17.2–.59**	**44.42N–.04**	**38.42E–.03**	**10**	**3.4b**	**104**	**1-71**
ISCJB	I	04 04 28 15.4–.26	44.45N–.03	38.43E–.03	10	3.2b,3.0s		¶16394851
IDC	I	04 04 28 15.1–.60	44.34N	38.53E	0	3.5,3.4		
MOS	I	04 04 28 16.3–.89	44.45N	38.40E	15	4.0b,3.4		
CSEM	I	04 04 28 17.9–.16	44.41N	38.45E	15	4.0b,3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=22.5.
IDC Error ellipse: s-maj=10.3km s-min=7.6km az=3.0.
MOS Error ellipse: s-maj=7.6km s-min=5.7km az=37.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=27.0.

ISC	**I**	**04 18 44 50.2–.86**	**43.71N–.02**	**43.05E–.02**	**17–6**		**91**	**0-23**
ISCJB	I	04 18 44 49.8–.43	43.69N–.02	43.04E–.03	1–4	3.9b		¶17216288
TIF	I	04 18 44 49.9	43.76N	43.08E	20–2	3.9b		
MOS	I	04 18 44 49.9–1.8	43.72N	43.01E	15	4.0b		
CSEM	I	04 18 44 50.2–.22	43.67N	43.04E	2	4.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=25.3.
MOS Error ellipse: s-maj=9.6km s-min=6.1km az=130.7.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=22.0.

ISC	**I**	**04 18 53 59.0–.97**	**43.71N–.02**	**43.03E–.02**	**18–3**		**64**	**0-23**
TIF	I	04 18 53 58.6	43.69N	43.07E	12–3			¶17216289
ISCJB	I	04 18 53 60.0–.45	43.70N–.03	43.02E–.03	16–13	3.6b		
CSEM	I	04 18 53 59.0	43.69N	43.06E	14	3.8b		
MOS	I	04 18 53 59.2–.54	43.69N	43.06E	14	3.8b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=25.6.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MOS Error ellipse: s-maj=10.8km s-min=7.4km az=134.0.

ISC	**I**	**05 04 10 25.6–1.2**	**43.90N–.03**	**43.03E–.02**	**11–10**		**67**	**0-20**
MOS	I	05 04 10 24.6–1.3	44.04N	43.08E	12	3.8b		¶17216290
ISCJB	I	05 04 10 25.3–.60	43.93N–.04	43.05E–.03	6–4	3.8b		
CSEM	I	05 04 10 26.0–.31	43.88N	43.04E	10	3.8b		
TIF	I	05 04 10 26.5	43.82N	42.69E	30–1	3.8b		

ISC Event type ke.
MOS Error ellipse: s-maj=10.6km s-min=5.8km az=116.5.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.8km az=15.4.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=14.0.

ISC	**I**	**06 00 02 02.9–.79**	**42.54N–.01**	**43.43E–.02**	**6–5**		**118**	**0-25**
TIF	I	06 00 02 01.8	42.56N	43.45E	13–0			¶17216293
MOS	I	06 00 02 01.8–1.4	42.55N	43.33E	6	3.8b		
CSEM	I	06 00 02 02.8–.15	42.56N	43.40E	2	1.6L		
DDA	I	06 00 02 07.5	42.18N	43.46E	26	3.0		

ISC Event type ke.
MOS Error ellipse: s-maj=9.3km s-min=5.5km az=68.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=124.0.
DDA Event type ke.

ISC	**I**	**06 22 00 37.5–.78**	**42.55N–.02**	**43.43E–.02**	**10–5**		**103**	**0-17**
TIF	I	06 22 00 37.0	42.56N	43.45E	13–0			¶17216294
ISCJB	I	06 22 00 37.6–.37	42.58N–.02	43.45E–.03	7–3			
CSEM	I	06 22 00 37.6–.15	42.54N	43.44E	2	1.9L		
DDA	I	06 22 00 37.5	42.43N	43.40E	6	2.9		
MOS	I	06 22 00 37.3–1.2	42.57N	43.38E	14	3.8b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=155.5.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=122.0.
DDA Event type ke.
MOS Error ellipse: s-maj=9.7km s-min=5.9km az=74.7.

ISC	**I**	**08 02 31 11.4–.91**	**41.41N–.03**	**44.02E–.02**	**13–8**		**44**	**0-2**
TIF	I	08 02 31 10.8	41.43N	44.03E	13–1			¶600243199
DDA	I	08 02 31 10.9	41.42N	44.00E	7	2.8		
ISCJB	I	08 02 31 11.4–.56	41.40N–.03	44.01E–.03	3–5	2.8		
CSEM	I	08 02 31 11.5–.14	41.40N	44.01E	2	2.0L		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.5km az=143.8.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.3km az=142.0.

ISC	**I**	**08 19 55 25.2–1.2**	**43.71N–.04**	**39.79E–.03**	**5–9**	**3.2b**	**83**	**0-63**
IDC	I	08 19 55 23.7–.75	43.54N	39.89E	0	3.5,3.4		¶16395259
ISCJB	I	08 19 55 24.4–.85	43.77N–.03	39.72E–.03	8–6	3.3b,3.4		
MOS	I	08 19 55 24.2–.92	43.73N	39.71E	10	3.9b,3.4		
CSEM	I	08 19 55 25.5–.23	43.71N	39.78E	2	3.9b,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=15.9km s-min=8.5km az=166.0.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=3.7km az=18.7.
MOS Event type fe. Error ellipse: s-maj=8.7km s-min=6.6km az=44.4. Felt (III) at Sochi. Moment Tensor Solution.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=18.0.

TIF	**I**	**08 23 50 57.9**	**42.69N**	**43.28E**	**11–0**			
								¶600243223
ISC	**I**	**09 03 52 50.1–.83**	**42.51N–.01**	**43.45E–.02**	**9–6**		**173**	**0-21**
DDA	I	09 03 52 49.2	42.49N	43.43E	6	3.2		¶16357921
TIF	I	09 03 52 49.9	42.50N	43.48E	12–1	3.2		
MOS	I	09 03 52 49.8–1.3	42.53N	43.33E	11	3.9b		
AZER	I	09 03 52 50.9–99	41.99N	43.20E	13–56	3.9b		
CSEM	I	09 03 52 50.5–.15	42.55N	43.40E	2	1.8L		
ISK	I	09 03 52 53.4	42.27N	43.56E	16	2.9L		

ISC Event type ke.
DDA Event type ke.
MOS Error ellipse: s-maj=8.2km s-min=4.8km az=70.0.
AZER Error ellipse: s-maj=281.3km s-min=17.0km az=291.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=113.0.

ISC	**I**	**09 03 58 06.7–1.1**	**42.49N–.06**	**43.45E–.04**	**4–16**		**23**	**0-2**
TIF	I	09 03 58 05.7	42.53N	43.54E	11–1			¶600243229
CSEM	I	09 03 58 07.0–.44	42.53N	43.52E	2	2.5		
DDA	I	09 03 58 12.1	41.89N	43.54E	7	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=7.2km az=170.0.
DDA Event type ke.

ISC	**I**	**10 02 51 30.0–1.1**	**41.24N–.03**	**44.07E–.03**	**8–10**		**53**	**0-2**
DDA	I	10 02 51 29.8	41.28N	43.96E	7	3.1		¶15972517
CSEM	I	10 02 51 30.7–.18	41.20N	44.04E	2	1.5L		
TIF	I	10 02 51 30.2	41.24N	44.06E	18–1	1.5L		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.8km az=144.0.

ISC	**I**	**12 02 33 05.0–2.7**	**42.35N–.05**	**42.4E–.30**	**6–14**		**17**	**0-1**
CSEM	I	12 02 33 03.8–.75	42.51N	42.08E	10	2.8		¶601608634
DDA	I	12 02 33 05.7	42.38N	41.67E	7	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=20.8km s-min=4.6km az=139.0.
DDA Event type ke.

ISC	**I**	**16 05 39 12.5–1.0**	**43.99N–.02**	**44.06E–.02**	**17–8**		**89**	**0-20**
TIF	I	16 05 39 10.7	44.03N	44.16E	13–3			¶17216302
ISCJB	I	16 05 39 11.0–.80	44.12N–.03	44.03E–.04	10–5			
CSEM	I	16 05 39 11.5–.24	44.09N	44.07E	12	3.6b		
MOS	I	16 05 39 12.1–1.5	44.04N	44.07E	49	3.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=143.1.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=67.0.
MOS Error ellipse: s-maj=12.6km s-min=5.9km az=95.9.

ISC	**I**	**16 10 01 54.0–1.1**	**43.80N–.03**	**44.57E–.03**	**7–8**		**63**	**0-22**
ISCJB	I	16 10 01 52.1–.77	43.90N–.03	44.66E–.05	5–5	3.5b		¶17216303
CSEM	I	16 10 01 53.5–.42	43.84N	44.56E	2	3.7b		
MOS	I	16 10 01 53.3–1.3	43.81N	44.63E	15	3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=164.4.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.9km az=65.0.
MOS Error ellipse: s-maj=10.5km s-min=6.2km az=67.6.

TIF	**I**	**16 19 47 18.4**	**42.58N**	**43.54E**	**11–0**			
								¶600243309
ISC	**I**	**17 04 15 00.7–3.5**	**42.8N–.20**	**43.40E–.07**	**11–11**		**20**	**0-2**
CSEM	I	17 04 15 03.2–.95	42.70N	43.32E	2	2.6		¶600243317
TIF	I	17 04 15 03.6	42.55N	43.49E	10–0	2.6		
DDA	I	17 04 15 08.0	42.14N	43.48E	7	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=28.0km s-min=9.2km az=166.0.
DDA Event type ke.

ISC	**I**	**17 14 34 27.3–1.0**	**41.35N–.05**	**44.39E–.04**	**5–6**		**20**	**0-1**
DDA	I	17 14 34 26.5	41.39N	44.37E	7	2.6		¶600243319
TIF	I	17 14 34 26.6	41.44N	44.43E	0–0	2.6		
ISCJB	I	17 14 34 27.3–.66	41.33N–.04	44.43E–.05	2–7	2.6		
CSEM	I	17 14 34 27.2–.24	41.36N	44.39E	3–2	2.6L		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.4km az=37.3.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=138.0.

ISC	**I**	**17 22 40 21.2–.86**	**42.57N–.01**	**43.35E–.02**	**5–6**		**135**	**0-21**
AZER	I	17 22 40 17.8–.36	42.61N	42.72E	68–126			¶17216305
DDA	I	17 22 40 19.3	42.63N	43.34E	7	3.2		
TIF	I	17 22 40 20.3	42.58N	43.43E	12–0	3.2		
MOS	I	17 22 40 21.5–1.3	42.61N	43.46E	11	3.8b		
CSEM	I	17 22 40 21.2–.12	42.56N	43.35E	2	2.2L		
IASPE	I	17 22 40 21.1–.87	42.56N–.02	43.37E–.02	6–5	2.2L		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.

ISC	**I**	**20 03 05 45.7–.98**	**41.25N–.04**	**44.00E–.04**	**10**		**17**	**0-1**
CSEM	I	20 03 05 45.8–.26	41.25N	43.99E	5	2.9		¶600243392
TIF	I	20 03 05 45.5	41.31N	44.04E	11–1	2.9		
ISCJB	I	20 03 05 46.4–.80	41.30N–.05	43.96E–.05	10	2.9		
DDA	I	20 03 05 46.6	41.12N	44.17E	9	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.5km az=163.8.
DDA Event type ke.

TIF	**I**	**21 00 10 15.6**	**42.52N**	**43.67E**	**8–3**			
								¶600243401
TIF	**I**	**21 11 15 47.9**	**41.43N**	**44.42E**	**0–0**			
CSEM	I	21 11 15 47.9	41.43N	44.42E	0	2.9L		¶600243405

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**I**	**23 10 06 44.0–1.2**	**42.49N–.10**	**43.53E–.07**	**4–20**		**18**	**0-2**
TIF	I	23 10 06 42.5	42.57N	43.61E	12–1			¶600243418
CSEM	I	23 10 06 43.3–.43	42.68N	43.47E	7–1	2.8		
DDA	I	23 10 06 43.1	42.61N	43.19E	6	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.3km s-min=4.3km az=172.0.
DDA Event type ke.

TIF	**I**	**24 20 09 10.1**	**41.42N**	**44.14E**	**9–0**			
CSEM	I	24 20 09 10.1	41.42N	44.14E	0	1.6L		¶600243437

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**II**	**02 06 57 50.0–2.2**	**42.54N–.10**	**43.6E–.10**	**9–10**		**23**	**0-2**
DDA	II	02 06 57 48.7	42.19N	43.81E	3	3.0		¶601609279
CSEM	II	02 06 57 48.9–.49	42.56N	43.66E	5	3.0		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.6km s-min=6.9km az=81.0.

ISC	**II**	**04 12 45 56.2–1.1**	**42.67N–.08**	**42.45E–.03**	**11–12**		**25**	**0-2**
TIF	II	04 12 45 55.1	42.65N	42.45E	11–2			¶600243517
ISCJB	II	04 12 45 56.4–.92	42.8N–.10	42.39E–.09	15–15			
CSEM	II	04 12 45 56.4–.20	42.66N	42.44E	2	2.0L		
DDA	II	04 12 45 58.0	42.65N	42.27E	11	3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.7km s-min=6.3km az=157.2.

CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=3.0.
DDA Event type ke.
TIF II 07 22 40 52.2 41.08N 44.12E 13–1
CSEM II 07 22 40 53.3–1.0 41.07N 44.12E 2 2.4L ¶600243525
CSEM Event type ke. Error ellipse: s-maj=21.2km s-min=7.1km az=161.0.
ISC II 15 15 48 59.2–.97 41.38N–.04 44.48E–.07 7–7 20 0-1
ISCJB II 15 15 48 60.0–.76 41.34N–.04 44.42E–.06 3–8 ¶600243535
DDA II 15 15 48 59.4 41.44N 44.32E 7 2.6
TIF II 15 15 48 59.5 41.43N 44.43E 0–0 2.6
CSEM II 15 15 49 00.1–.24 41.36N 44.39E 0–2 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.0km az=37.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=133.0.
ISC II 20 03 27 26.4–1.5 42.55N–.06 43.43E–.03 5–12 26 1-2
DDA II 20 03 27 13.5 41.79N 44.74E 7 3.1 ¶600243552
TIF II 20 03 27 25.6 42.60N 43.47E 17–0 3.1
CSEM II 20 03 27 26.3–.59 42.57N 43.46E 2 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.8km s-min=6.7km az=22.0.
TIF II 23 23 47 35.0 42.51N 43.58E 15–1
CSEM II 23 23 47 35.0–.47 42.52N 43.59E 5 1.6L ¶600243573
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=6.3km az=32.0.
ISC II 24 12 24 06.8–1.6 41.48N–.06 44.33E–.06 3–13 20 0-1
CSEM II 24 12 24 07.7–.45 41.32N 44.51E 2 1.4L ¶600243582
TIF II 24 12 24 07.9 41.43N 44.44E 0–0 1.4L
DDA II 24 12 24 08.2 41.45N 44.32E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.8km s-min=5.7km az=127.0.
DDA Event type ke.
TIF II 25 11 04 48.3 41.45N 44.00E 9–0
CSEM II 25 11 04 48.3 41.45N 44.00E 0 1.6L ¶600243585
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 01 11 26 59.7–.93 43.67N–.05 39.87E–.03 9–7 3.6b 85 0-45
MOS III 01 11 26 56.5–1.2 43.51N 39.54E 10 4.1b ¶17193067
IDC III 01 11 26 58.0–.84 43.70N 39.94E 0 3.7,3.7s
ISCJB III 01 11 26 59.4–.53 43.70N–.03 39.72E–.04 12–4 3.5s,3.5b
CSEM III 01 11 27 00.1–.21 43.66N 39.85E 10 4.1b,3.5b
ISC Event type ke.
MOS Event type fe. Error ellipse: s-maj=8.1km s-min=6.9km az=89.2. Felt (II-III) at Sochi. Moment Tensor Solution.
IDC Error ellipse: s-maj=18.7km s-min=8.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.1km az=39.4.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.5km az=36.0.
TIF III 13 15 17 06.4 41.44N 44.44E 0–0
CSEM III 13 15 17 06.4 41.43N 44.44E 0 1.9L ¶600777060
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TIF III 15 10 51 16.1 42.56N 43.52E 9–0
CSEM III 15 10 51 16.1 42.56N 43.52E 0 0.8L ¶600777086
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TIF III 15 10 52 22.5 41.43N 44.43E 0–1
¶600777087
TIF III 21 16 27 57.4 41.44N 44.43E 0–0
CSEM III 21 16 27 57.3 41.44N 44.43E 0 1.4L ¶600777114
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TIF III 21 16 29 05.4 41.39N 44.45E 0–1
¶600777115
IDC III 22 10 20 47.7–6.6 44.38N 42.89E 0
¶17197982
IDC Error ellipse: s-maj=196.6km s-min=36.5km az=90.0.
TIF III 29 11 03 45.7 41.43N 44.48E 0–0
CSEM III 29 11 03 45.7 41.43N 44.48E 0 1.2L ¶600777156
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 29 14 42 34.3–3.8 42.8N–.10 41.3E–.10 12–16 22 1-2
CSEM III 29 14 42 34.7–.45 42.78N 41.22E 5 3.1 ¶600777159
TIF III 29 14 42 34.8 42.76N 41.30E 15–0 3.1
DDA III 29 14 42 37.0 42.39N 40.71E 7 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=3.8km az=136.0.
TIF IV 02 21 47 18.2 42.58N 43.52E 11–1
CSEM IV 02 21 47 18.2 42.58N 43.52E 0 2.3L ¶600777182
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TIF IV 06 14 05 18.3 41.45N 44.47E 0–1
CSEM IV 06 14 05 18.3 41.45N 44.47E 0 1.9L ¶600777201
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 07 13 40 16.6–1.0 41.52N–.02 44.19E–.02 4–9 126 0-25
TIF IV 07 13 40 15.5 41.54N 44.21E 10–0 ¶16436420
CSEM IV 07 13 40 16.8–.13 41.51N 44.21E 2 3.2L
MOS IV 07 13 40 16.2–.57 41.45N 44.20E 11 4.1b
DDA IV 07 13 40 52.4 41.43N 44.22E 9 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=92.0.
MOS Error ellipse: s-maj=11.2km s-min=5.0km az=90.6.
ISC IV 11 16 06 45.3–.82 43.31N–.02 43.61E–.02 14–6 96 0-20
ISCJB IV 11 16 06 45.5–.32 43.28N–.02 43.58E–.02 1–4 ¶600680443
CSEM IV 11 16 06 45.7–.13 43.29N 43.57E 2 3.9b
MOS IV 11 16 06 45.0–.93 43.31N 43.62E 9 3.9b
TIF IV 11 16 06 45.4 43.27N 43.61E 13–1 3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=32.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=31.0.
MOS Error ellipse: s-maj=7.7km s-min=5.3km az=122.6.
ISC IV 14 06 15 38.4–1.4 42.51N–.04 43.54E–.03 4–12 38 1-2
TIF IV 14 06 15 37.6 42.55N 43.55E 16–1 ¶600777227
CSEM IV 14 06 15 38.4–.30 42.52N 43.51E 2 2.4L
DDA IV 14 06 15 38.6 42.11N 44.02E 30 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.7km az=1.0.
ISC IV 15 02 35 39.3–1.2 42.34N–.05 42.98E–.03 1–11 38 0-2
CSEM IV 15 02 35 39.4–.54 42.37N 42.95E 2 3.0 ¶601583487
DDA IV 15 02 35 39.4 42.27N 43.07E 6 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.3km s-min=4.9km az=148.0.
ISC IV 21 18 06 51.6–1.0 42.45N–.05 43.46E–.04 8–11 25 0-2
TIF IV 21 18 06 50.8 42.53N 43.60E 12–1 ¶600777251
CSEM IV 21 18 06 52.3–.33 42.48N 43.47E 2 2.0L
DDA IV 21 18 06 52.0 41.99N 43.87E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=6.4km az=130.0.
ISC IV 25 18 56 16.1–3.2 43.1N–.10 41.2E–.10 3–15 22 1-2
TIF IV 25 18 56 16.2 43.31N 41.46E 9–1 ¶600777271
CSEM IV 25 18 56 17.8–1.0 43.24N 41.41E 5 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=19.7km s-min=14.0km az=155.0.
ISC IV 30 11 59 33.4–.90 42.54N–.04 43.42E–.03 12–6 39 0-2
TIF IV 30 11 59 33.0 42.54N 43.44E 14–0 ¶600777952
CSEM IV 30 11 59 34.1–.31 42.53N 43.40E 2 2.5L
DDA IV 30 12 00 45.8 42.23N 42.51E 36 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=1.0.
ISC IV 30 13 02 09.0–.84 42.53N–.02 43.41E–.01 6–6 153 0-23
TIF IV 30 13 02 08.0 42.52N 43.45E 13–0 ¶16649665
CSEM IV 30 13 02 08.8–.13 42.55N 43.39E 2 4.0b
MOS IV 30 13 02 08.9–1.0 42.56N 43.41E 8 4.0b
AZER IV 30 13 02 09.4–.24 42.15N 43.35E 5 4.0b
ISK IV 30 13 02 10.7 42.53N 43.36E 22 4.0
DDA IV 30 13 02 38.3 42.60N 43.49E 11 3.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=118.0.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=78.3.

AZER Error ellipse: s-maj=7.4km s-min=4.5km az=356.0.
ISC V 02 03 47 41.4–2.9 42.6N–.40 43.4E–.70 10 10 0-2
ISCJB V 02 03 47 41.7–2.3 42.6N–.30 43.4E–.30 10 ¶601269836
TIF V 02 03 47 41.1 42.58N 43.43E 10–0
DDA V 02 03 47 43.0 42.75N 42.28E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=56.0km s-min=11.0km az=141.0.
ISC V 02 06 09 38.6–1.1 42.56N–.02 43.29E–.02 3–8 143 0-25
MOS V 02 06 09 38.7–1.1 42.55N 43.25E 8 3.9b ¶600743971
TIF V 02 06 09 38.6 42.56N 43.35E 8–1 3.9b
CSEM V 02 06 09 39.3–.19 42.58N 43.28E 2 3.3L
AZER V 02 06 09 41.0–99 42.16N 43.22E 10–10 3.3L
ISC Event type ke.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=75.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=65.0.
AZER Error ellipse: s-maj=203.7km s-min=7.5km az=293.0.
ISC V 02 07 49 21.3–.74 42.56N–.02 43.38E–.02 10–4 147 0-26
AZER V 02 07 49 20.4–99 42.27N 42.63E 43–59 ¶16853121
TIF V 02 07 49 21.2 42.56N 43.41E 10–0
MOS V 02 07 49 21.7–2.0 42.55N 43.29E 10 4.0b
CSEM V 02 07 49 22.1–.19 42.59N 43.30E 2 3.4L
ISK V 02 07 49 24.4 42.54N 43.45E 28 3.4
ISC Event type ke.
AZER Error ellipse: s-maj=406.1km s-min=16.5km az=292.0.
MOS Error ellipse: s-maj=7.5km s-min=4.8km az=80.5.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=61.0.
ISC V 02 09 15 27.3–4.2 42.6N–.30 43.3E–.20 1–25 8 0-2
TIF V 02 09 15 27.8 42.55N 43.42E 9–1 ¶601269845
DDA V 02 09 15 29.7 42.58N 42.96E 7 2.8
ISC Event type ke.
ISC V 02 22 51 29.4–.90 42.57N–.05 43.38E–.03 10–6 40 0-2
TIF V 02 22 51 29.2 42.57N 43.41E 12–0 ¶601269852
CSEM V 02 22 51 30.4–.49 42.54N 43.37E 2 1.8L
DDA V 02 22 51 37.7 41.67N 43.56E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=7.6km az=16.0.
ISC V 04 01 29 54.4–1.1 41.58N–.01 44.16E–.02 1–9 130 0-25
NSSP V 04 01 29 53.2 41.53N 44.18E 8 2.9s ¶16853198
TIF V 04 01 29 54.4 41.59N 44.23E 18–0 2.9s
MOS V 04 01 29 54.6–1.7 41.56N 44.08E 10 3.8b
CSEM V 04 01 29 55.1–.21 41.60N 44.24E 2 2.9L
ISK V 04 01 29 57.4 41.36N 44.21E 5 3.2
DDA V 04 01 29 57.4 42.00N 43.72E 6 3.2
ISC Event type ke.
MOS Error ellipse: s-maj=11.5km s-min=4.7km az=89.4.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.6km az=104.0.
ISC V 05 08 43 36.4–.71 42.55N–.01 43.49E–.02 9–4 167 0-17
AZER V 05 08 43 32.6–99 42.41N 43.18E 5–16 ¶600743975
TIF V 05 08 43 35.6 42.57N 43.47E 15–0
CSEM V 05 08 43 36.8–.15 42.55N 43.42E 2 3.5L
MOS V 05 08 43 36.9–.83 42.57N 43.46E 10 4.2b
DDA V 05 08 43 36.1 42.46N 43.37E 2 3.8L
ISC Event type ke.
AZER Error ellipse: s-maj=209.6km s-min=9.0km az=296.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=111.0.
TIF V 05 16 09 32.7 42.54N 43.47E 10–0
CSEM V 05 16 09 33.4–.28 42.51N 43.43E 2 2.5L ¶601269858
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=157.0.
ISC V 13 03 35 54.2–.81 43.09N–.02 44.15E–.02 12–5 88 0-22
MOS V 13 03 35 53.4–1.5 43.12N 44.17E 9 3.9b ¶600743982
TIF V 13 03 35 53.9 43.09N 44.20E 9–1 3.9b
IASPE V 13 03 35 54.4–.93 43.09N–.03 44.16E–.03 10–7 3.9b
CSEM V 13 03 35 54.1–.30 43.16N 44.19E 10 3.9b
DDA V 13 03 36 08.6 41.82N 43.98E 7 3.3
ISC Event type ke.
MOS Error ellipse: s-maj=8.5km s-min=6.4km az=97.6.
IASPE Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=32.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.6km az=47.0.
TIF V 17 13 43 34.1 41.44N 44.50E 0–2
CSEM V 17 13 43 34.1 41.44N 44.50E 0 1.1L ¶601269908
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
TIF V 17 13 43 44.3 41.44N 44.48E 0–1
¶601269911
ISC V 22 10 20 56.9–2.3 42.8N–.10 41.79E–.07 11–9 38 0-2
TIF V 22 10 20 58.0 42.70N 41.91E 12–1 ¶601269939
CSEM V 22 10 20 57.2–.63 42.77N 41.78E 2 2.5L
DDA V 22 10 20 58.5 42.62N 41.75E 7 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.7km s-min=6.2km az=141.0.
ISC V 24 22 41 46.0–1.1 43.75N–.02 43.47E–.02 6–8 82 0-25
ISCJB V 24 22 41 45.4–.42 43.77N–.02 43.45E–.03 6–4 ¶600853647
TIF V 24 22 41 45.7 43.76N 43.42E 19–1
MOS V 24 22 41 45.4–.54 43.75N 43.41E 12 4.1b
CSEM V 24 22 41 45.9–.22 43.75N 43.44E 10 4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.1km az=145.5.
MOS Error ellipse: s-maj=11.3km s-min=5.8km az=113.3.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=51.0.
ISC V 24 23 24 24.5–1.2 43.90N–.05 39.26E–.03 7–9 66 0-44
IDC V 24 23 24 22.1–1.1 43.79N 39.42E 0 3.5,3.4 ¶17204413
ISCJB V 24 23 24 25.0–.96 43.85N–.05 39.16E–.03 17–9 3.3b,3.4
MOS V 24 23 24 24.4–2.1 43.90N 39.15E 13 4.2b,3.4
CSEM V 24 23 24 24.4 43.90N 39.15E 13 4.2b,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=8.2km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=3.9km az=7.9.
MOS Error ellipse: s-maj=11.8km s-min=7.1km az=20.3.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 30 08 57 38.1–1.5 42.35N–.04 42.05E–.06 3–13 16 0-2
DDA V 30 08 57 38.6 42.34N 41.85E 7 3.0 ¶602862325
ISC Event type ke.
DDA Event type ke.
ISC V 31 05 41 20.7–.83 43.07N–.02 44.17E–.02 8–6 85 0-25
MOS V 31 05 41 19.7–1.0 43.05N 44.16E 14 3.7b ¶600853652
IASPE V 31 05 41 20.9–.89 43.07N–.02 44.17E–.02 10–7 3.7b
ISCJB V 31 05 41 20.6–.30 43.07N–.02 44.19E–.02 10–3 3.5b
TIF V 31 05 41 20.4 43.09N 44.18E 13–1 3.5b
CSEM V 31 05 41 20.7–.13 43.07N 44.16E 10 3.7b
ISC Event type ke.
MOS Error ellipse: s-maj=8.7km s-min=6.5km az=98.6.
IASPE Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=162.5. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.9km az=135.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=30.0.
TIF V 31 15 10 47.3 41.44N 44.43E 0–0
CSEM V 31 15 10 47.3 41.44N 44.43E 0 1.6L ¶601269965
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 02 00 06 28.0–1.0 43.08N–.02 44.18E–.02 3–9 79 0-22
TIF VI 02 00 06 26.6 43.08N 44.22E 12–0 ¶600628210
MOS VI 02 00 06 27.0–1.2 43.10N 44.19E 15 4.1b
CSEM VI 02 00 06 29.2–1.2 43.09N 44.18E 2 2.5L
DDA VI 02 00 06 44.0 41.95N 43.64E 7 3.2
ISC Event type ke.
MOS Error ellipse: s-maj=7.9km s-min=5.8km az=101.9.
CSEM Event type ke. Error ellipse: s-maj=25.2km s-min=10.4km az=24.0.
ISC VI 06 21 53 50.1–1.1 42.28N–.03 44.05E–.02 8–11 50 0-2

DDA VI 06 21 53 49.4 42.28N 44.01E 6 2.9 **¶601270004**
TIF VI 06 21 53 49.7 42.31N 44.06E 9–3 2.9
CSEM VI 06 21 53 50.7–.34 42.29N 44.06E 2 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.5km az=169.0.
ISC VI 08 08 12 33.8–.75 42.57N–.02 43.44E–.02 10–4 75 0-17
MOS VI 08 08 12 32.9–.98 42.57N 43.32E 7 3.9b **¶17555670**
ISCJB VI 08 08 12 33.8–.41 42.56N–.02 43.42E–.03 4–3 3.9b
TIF VI 08 08 12 33.3 42.56N 43.45E 12–0 3.9b
CSEM VI 08 08 12 34.0–.26 42.53N 43.41E 8 3.1L
ISK VI 08 08 12 34.3 42.85N 44.11E 16 3.2
ISC Event type ke.
MOS Error ellipse: s-maj=9.1km s-min=5.7km az=72.5.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=169.6.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.5km az=45.0.
ISC VI 13 15 18 11.0–.83 42.53N–.02 43.40E–.02 8–6 99 0-25
MOS VI 13 15 18 10.8–1.7 42.58N 43.32E 13 4.1b **¶600856244**
AZER VI 13 15 18 10.2–.29 42.37N 42.77E 45 4.1b
TIF VI 13 15 18 10.5 42.58N 43.45E 13–0 4.1b
CSEM VI 13 15 18 12.2–.29 42.52N 43.42E 2 3.1L
DDA VI 13 15 18 16.5 41.94N 43.48E 7 3.2
ISC Event type ke.
MOS Error ellipse: s-maj=8.4km s-min=5.6km az=72.4.
AZER Error ellipse: s-maj=24.2km s-min=16.0km az=39.0.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.1km az=2.0.
ISC VI 14 19 47 57.7–.86 41.43N–.03 44.16E–.03 17–7 40 0-2
DDA VI 14 19 47 56.4 41.48N 44.07E 8 2.7 **¶601270057**
ISCJB VI 14 19 47 57.9–.51 41.44N–.03 44.16E–.03 8–4 2.7
TIF VI 14 19 47 57.3 41.52N 44.15E 16–0 2.7
CSEM VI 14 19 47 57.7–.19 41.44N 44.16E 2 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.5km az=155.2.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=156.0.
ISC VI 15 11 41 05.0–.74 42.53N–.01 43.48E–.02 10–5 120 0-23
AZER VI 15 11 41 03.0–.12 42.22N 43.24E 5 **¶600856246**
MOS VI 15 11 41 04.2–.92 42.56N 43.46E 4 3.9b
TIF VI 15 11 41 04.2 42.55N 43.48E 14–0 3.9b
CSEM VI 15 11 41 05.1–.34 42.52N 43.50E 0–4 3.2L
DDA VI 15 11 41 08.6 42.08N 43.49E 7 3.3
ISC Event type ke.
AZER Error ellipse: s-maj=14.2km s-min=6.2km az=40.0.
MOS Error ellipse: s-maj=8.0km s-min=4.5km az=81.5.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.9km az=1.0.
TIF VI 16 12 54 47.5 41.42N 44.37E 0–0
CSEM VI 16 12 54 47.5 41.42N 44.37E 0 1.6L **¶601270066**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 16 22 43 38.9–.92 42.50N–.02 42.77E–.01 20–4 3.6b 232 1-28
AZER VI 16 22 43 38.0–99 42.59N 43.01E 9–37 3.6b **¶17206352**
MOS VI 16 22 43 37.4–1.4 42.47N 42.60E 12 4.0b
TIF VI 16 22 43 37.6 42.49N 42.78E 19–0 4.0b
DDA VI 16 22 43 38.4 42.48N 42.79E 35 3.9L
CSEM VI 16 22 43 38.2–.23 42.50N 42.76E 2 3.9L
ISCJB VI 16 22 43 39.0–.36 42.52N–.02 42.72E–.02 20–4 3.4b
IDC VI 16 22 43 45.2–.93 42.74N 42.80E 66–10 3.6,3.3
ISC Event type ke.
AZER Error ellipse: s-maj=270.2km s-min=13.2km az=298.0.
MOS Error ellipse: s-maj=5.7km s-min=4.9km az=63.7.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.5km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=169.4.
IDC Error ellipse: s-maj=19.4km s-min=8.4km az=70.0.
ISC VI 16 23 21 32.3–4.8 42.51N–.09 43.7E–.20 8 8 0-2
TIF VI 16 23 21 34.5 42.54N 43.47E 10–1 **¶601270069**
DDA VI 16 23 21 35.8 42.84N 42.30E 7 2.9
ISC Event type ke.
ISC VI 17 01 06 49.8–4.9 42.8N–.20 41.7E–.30 35 9 0-2
DDA VI 17 01 06 52.3 42.45N 41.51E 7 2.6 **¶602863172**
ISC Event type ke.
ISC VI 18 03 25 20.2–3.1 42.5N–.10 42.75E–.07 2–13 14 1-2
TIF VI 18 03 25 20.5 42.51N 42.79E 18–0 **¶601270074**
DDA VI 18 03 25 38.7 41.55N 42.15E 7 2.7
ISC Event type ke.
ISC VI 19 06 56 29.2–1.9 42.52N–.07 43.51E–.04 8–13 29 1-2
DDA VI 19 06 56 28.1 42.25N 43.72E 8 2.6 **¶601270080**
CSEM VI 19 06 56 28.9–.55 42.55N 43.45E 2 2.5L
TIF VI 19 06 56 28.3 42.56N 43.49E 12–2 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=6.0km az=163.0.
TIF VI 19 06 56 58.8 42.58N 43.46E 18–2
¶601270083
TIF VI 25 21 22 23.1 42.50N 43.60E 9–1
¶601270121
ISC VI 25 23 17 50.8–1.2 42.41N–.04 43.60E–.03 3–12 32 0-2
CSEM VI 25 23 17 50.6–.30 42.42N 43.62E 2 2.7 **¶601270124**
TIF VI 25 23 17 50.0 42.45N 43.63E 8–1 2.7
DDA VI 25 23 18 00.9 42.64N 43.67E 11 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=5.4km az=150.0.
DDA Event type ke.

(363) Greece-Bulgaria border region.

ISC I 01 01 17 32.5–.98 41.17N–.03 23.33E–.02 10–9 38 0-1
ISCJB I 01 01 17 32.0–.72 41.16N–.03 23.33E–.03 13–10 **¶600871198**
CSEM I 01 01 17 32.5–.19 41.16N 23.32E 5 2.8
ATH I 01 01 17 32.4 41.18N 23.31E 4 2.8
SKO I 01 01 17 33.3 41.16N 23.34E 0 1.2L,0.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=172.8.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=175.0.
ATH Error ellipse: s-maj=0.8km s-min=0.5km az=-1.0.
ISC I 03 20 43 21.1–.92 41.18N–.02 23.32E–.02 10–8 110 0-6
ISCJB I 03 20 43 20.4–.43 41.20N–.02 23.33E–.03 9–3 **¶16868184**
CSEM I 03 20 43 20.8–.16 41.18N 23.34E 5 2.7L
ATH I 03 20 43 20.7 41.18N 23.33E 19–0 2.7L
THE I 03 20 43 21.0 41.17N 23.33E 5–1 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=135.6.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=71.0.
ATH Error ellipse: s-maj=0.5km s-min=0.3km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=324.0.
ISC I 04 21 46 44.6–.91 41.17N–.02 23.34E–.02 9–8 78 0-4
ISCJB I 04 21 46 44.0–.43 41.20N–.02 23.32E–.03 9–3 **¶16868188**
CSEM I 04 21 46 44.3–.11 41.18N 23.34E 8 2.3L
THE I 04 21 46 44.7 41.16N 23.33E 2–27 2.3L
ATH I 04 21 46 44.0 41.20N 23.30E 17–7 3.1
SKO I 04 21 46 45.3 41.17N 23.34E 0 1.9L,1.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=19.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=47.0.
THE Event type ke. Error ellipse: s-maj=27.3km s-min=0.4km az=68.0.
ATH Error ellipse: s-maj=1.6km s-min=1.4km az=-1.0.
BEO I 15 12 04 11.8–.71 41.93N 23.21E 0 1.4
CSEM I 15 12 04 11.3–.37 41.94N 23.17E 2 1.4L **¶601108758**
SKO I 15 12 04 12.3 41.85N 23.27E 1 1.6L,1.1
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=3.8km az=104.0.
ISC I 22 02 00 45.6–.94 41.70N–.02 23.89E–.02 11–7 127 0-3
ISCJB I 22 02 00 45.1–.39 41.71N–.02 23.86E–.03 7–3 **¶16871517**
SOF I 22 02 00 45.4 41.73N 23.92E 2
CSEM I 22 02 00 45.5–.17 41.71N 23.83E 8 3.2
THE I 22 02 00 46.1 41.66N 23.86E 2–1 2.4L
SKO I 22 02 00 46.5 41.73N 23.83E 6 2.4L
ATH I 22 02 00 46.4 41.61N 23.88E 17–1 3.2
BEO I 22 02 00 47.5–.48 41.75N 23.86E 20–4 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=8.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=78.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=269.0.
ATH Error ellipse: s-maj=1.5km s-min=0.8km az=-1.0.
BEO Event type ke.
ISC I 27 18 59 34.0–1.1 41.88N–.02 23.25E–.02 3–10 86 0-2
SOF I 27 18 59 33.5 41.92N 23.26E 2 **¶16871609**
SKO I 27 18 59 33.1 41.90N 23.20E 38 2.0L,1.7
CSEM I 27 18 59 34.0–.09 41.88N 23.24E 2 2.4L,1.7
BEO I 27 18 59 34.7–.37 41.89N 23.24E 5–3 2.0,1.7
THE I 27 18 59 34.0 41.87N 23.23E 1–2 2.4L,1.7
ATH I 27 18 59 34.2 41.86N 23.22E 17–2 3.0,1.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=77.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=336.0.
ATH Error ellipse: s-maj=2.3km s-min=1.0km az=-1.0.
ATH II 01 03 42 55.9 41.42N 23.32E 19–2 1.6L
CSEM II 01 03 42 56.7–.17 41.40N 23.35E 2 1.6L **¶600896055**
SKO II 01 03 42 57.2 41.44N 23.31E 0 1.5L,1.0
BEO II 01 03 42 59.6–1.2 41.48N 23.19E 0 1.5,1.0
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.1km az=165.0. Analyst: DASKALAKI ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=79.0.
BEO Event type ke.
ISC II 07 10 39 25.3–.97 41.46N–.01 23.14E–.02 8–8 132 0-6
ISCJB II 07 10 39 24.8–.41 41.47N–.02 23.13E–.02 5–3 **¶601108834**
SKO II 07 10 39 25.9 41.47N 23.16E 0 2.9L,1.8
CSEM II 07 10 39 25.3–.13 41.46N 23.15E 8 2.8L,1.8
SOF II 07 10 39 25.4 41.48N 23.14E 2 2.9,1.8
THE II 07 10 39 25.3 41.45N 23.15E 4–1 2.9L,1.8
ATH II 07 10 39 25.2 41.44N 23.14E 23–1 2.8L,1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=166.7.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=58.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=70.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=170.0. Analyst: Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 07 16 22 41.1–1.0 41.48N–.01 23.12E–.02 6–9 176 0-8
ATH II 07 16 22 38.3 41.53N 23.13E 11–2 3.2L **¶16871830**
THE II 07 16 22 40.5 41.50N 23.14E 0–1 3.1L
CSEM II 07 16 22 40.7–.13 41.49N 23.14E 5 3.1L
SKO II 07 16 22 41.4 41.49N 23.14E 0 3.2L,2.8
SOF II 07 16 22 41.2 41.51N 23.17E 2 3.2,2.8
BEO II 07 16 22 42.0–.79 41.53N 23.09E 2–1 3.3,2.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.6km az=176.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=73.0.
BEO Event type ke.
ISC II 07 18 00 10.1–1.0 41.47N–.01 23.13E–.01 5–9 222 0-6
ISCJB II 07 18 00 09.5–.40 41.47N–.01 23.12E–.02 3–3 **¶16494317**
BEO II 07 18 00 09.0–.82 41.38N 23.08E 0 3.2
ATH II 07 18 00 10.0 41.43N 23.15E 22–1 3.2L
ISK II 07 18 00 10.8 41.40N 23.17E 8 3.5L
SKO II 07 18 00 10.6 41.48N 23.12E 0 3.0L,2.8
THE II 07 18 00 10.3 41.45N 23.16E 3–0 2.9L,2.8
SOF II 07 18 00 10.1 41.49N 23.14E 3 3.2,2.8
CSEM II 07 18 00 10.2–.10 41.46N 23.11E 5 3.5L,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=159.1.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=163.0. ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=106.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=54.0.
ISC II 07 22 25 37.4–1.0 41.42N–.02 23.33E–.01 4–9 157 0-5
THE II 07 22 25 37.7 41.41N 23.33E 2–0 2.6L **¶16494325**
ATH II 07 22 25 37.0 41.41N 23.33E 20–1 2.5L
CSEM II 07 22 25 37.6–.12 41.41N 23.31E 2 2.5L
ISCJB II 07 22 25 37.2–.42 41.42N–.02 23.31E–.02 4–3 2.5L
ISK II 07 22 25 38.5 41.34N 23.31E 5 3.3
SKO II 07 22 25 38.1 41.43N 23.31E 0 2.7L,2.2
BEO II 07 22 25 40.2–.93 41.45N 23.14E 15–4 3.0,2.2
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=118.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=164.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=163.3.
BEO Event type ke.
ISC II 16 06 06 56.8–1.1 41.41N–.02 23.33E–.02 3–10 87 0-2
THE II 16 06 06 56.7 41.41N 23.32E 2–19 2.4L **¶16872030**
ATH II 16 06 06 56.4 41.40N 23.32E 18–2 2.3L
SKO II 16 06 06 57.1 41.42N 23.32E 1 2.1L,1.9
BEO II 16 06 06 57.5–1.2 41.34N 23.47E 0 2.3,1.9
SOF II 16 06 06 57.2 41.47N 23.35E 4 2.7,1.9
CSEM II 16 06 06 57.1–.16 41.38N 23.32E 2 2.3L,1.9
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=19.1km s-min=0.3km az=0.0.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=161.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=80.0.
ISC III 18 06 27 16.1–.83 41.04N–.02 23.36E–.02 13–6 116 0-5
ATH III 18 06 27 15.4 41.03N 23.37E 24–1 2.8L **¶16872432**
ISCJB III 18 06 27 15.8–.35 41.04N–.02 23.35E–.02 8–3 2.8L
CSEM III 18 06 27 16.0–.10 41.02N 23.36E 8 2.8L
SOF III 18 06 27 16.2 41.06N 23.38E 1 2.6
SKO III 18 06 27 16.7 41.06N 23.35E 1 2.6L,2.2
THE III 18 06 27 16.1 41.04N 23.36E 5–1 2.8L,2.2
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=343.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=146.8.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=162.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=116.0.
ISC III 27 10 27 00.0–.90 41.20N–.02 23.87E–.02 19–2 80 0-4
ATH III 27 10 26 59.5 41.21N 23.87E 26–1 2.4L **¶16872573**
CSEM III 27 10 27 00.0–.15 41.18N 23.90E 12 2.4L
ISCJB III 27 10 27 00.6–.35 41.20N–.02 23.88E–.03 18–5 2.4L
SKO III 27 10 27 00.8 41.21N 23.90E 0 2.4L,2.0
THE III 27 10 27 00.7 41.18N 23.87E 13–0 2.6L,2.0
SOF III 27 10 27 01.0 41.22N 23.85E 12 3.0,2.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=336.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=13.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=40.9.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=356.0.
ISC III 29 17 14 56.4–.84 41.93N–.03 26.48E–.03 10 61 0-5
ISK III 29 17 14 54.4 41.86N 26.43E 5 3.1 **¶16495828**
ISCJB III 29 17 14 54.8–.40 42.02N–.03 26.42E–.05 10 3.1
CSEM III 29 17 14 56.0–.21 41.87N 26.43E 5 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.9km az=17.0.

ISC III 31 05 25 44.7–.83 41.21N–.02 23.05E–.02 15–6 81 0-3
ATH III 31 05 25 44.7 41.19N 23.07E 24–1 2.4L ¶16872629
SKO III 31 05 25 44.5 41.14N 23.10E 15 2.3L,1.7
ISCJB III 31 05 25 45.2–.42 41.19N–.02 23.07E–.03 7–4 2.3L,1.7
THE III 31 05 25 45.5 41.18N 23.08E 7–1 2.5L,1.7
SOF III 31 05 25 45.4 41.25N 23.06E 2 2.5,1.7
CSEM III 31 05 25 45.4–.09 41.18N 23.07E 12 2.4L,1.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=1.0km az=4.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=31.9.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=188.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=41.0.
ISC IV 14 03 40 43.9–.99 41.56N–.02 24.01E–.02 9–8 87 0-4
SOF IV 14 03 40 43.7 41.58N 24.01E 15 2.9 ¶16881544
ATH IV 14 03 40 44.3 41.52N 24.01E 19–2 2.4L
THE IV 14 03 40 44.9 41.53N 24.01E 11–0 2.4L
CSEM IV 14 03 40 45.4–.29 41.49N 24.00E 10 2.4L
SKO IV 14 03 40 45.6 41.56N 24.00E 0 2.7L,2.3
BEO IV 14 03 40 47.2–1.2 41.58N 24.00E 0 2.3,2.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.8km s-min=1.4km az=194.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=196.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=66.0.
BEO Event type ke.
THE IV 15 14 43 55.8 41.67N 24.07E 4–1 2.0L
CSEM IV 15 14 43 55.7–.46 41.68N 24.13E 10 1.9L ¶16881557
ATH IV 15 14 43 56.9 41.60N 24.07E 21–3 1.9L
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.5km az=243.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=8.0km az=48.0.
ATH Event type ke. Error ellipse: s-maj=5.5km s-min=1.8km az=190.0.
ISC V 05 00 17 05.5–.79 41.22N–.01 23.72E–.01 11–5 225 0-6
BEO V 05 00 16 58.0–.88 40.77N 24.08E 0 3.1 ¶16853232
ATH V 05 00 17 04.5 41.23N 23.76E 23–1 3.2L
SKO V 05 00 17 05.6 41.24N 23.78E 1 2.9L,2.8
CSEM V 05 00 17 05.9–.09 41.21N 23.70E 8 3.2L,2.8
SOF V 05 00 17 05.0 41.21N 23.76E 2 3.1,2.8
ISCJB V 05 00 17 05.2–.36 41.19N–.02 23.74E–.02 4–3 3.1,2.8
ISK V 05 00 17 05.6 41.19N 23.66E 15 3.3L,2.8
THE V 05 00 17 05.7 41.21N 23.74E 7–0 3.0L,2.8
DDA V 05 00 17 30.4 40.46N 26.04E 7 3.2,2.8
ISC Event type ke.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=336.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=2.9.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=306.0.
ISC V 13 03 18 35.8–.89 41.05N–.03 26.30E–.02 17–7 65 0-2
ISCJB V 13 03 18 35.9–.55 41.07N–.03 26.30E–.03 9–4 ¶16853516
CSEM V 13 03 18 36.1–.21 41.08N 26.28E 10 2.8
THE V 13 03 18 36.0 41.06N 26.31E 11–1 2.1L
ISK V 13 03 18 36.2 41.05N 26.31E 14 2.8
DDA V 13 03 18 37.4 40.97N 26.32E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.8km az=161.3.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=169.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=120.0.
ISC V 21 12 40 05.1–1.2 41.27N–.04 25.55E–.02 10–10 46 0-2
ISCJB V 21 12 40 05.5–.66 41.25N–.03 25.52E–.04 6–6 ¶16882351
ATH V 21 12 40 06.0 41.19N 25.53E 29–1 1.9L
CSEM V 21 12 40 06.2–.16 41.23N 25.53E 15 1.9L
THE V 21 12 40 06.5 41.23N 25.54E 16–1 2.0L
SOF V 21 12 40 10.9 41.67N 25.34E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.5km az=13.2.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.2km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=10.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=129.0.
ATH V 21 12 53 24.3 41.19N 25.53E 30–1 2.0L
CSEM V 21 12 53 24.7–.25 41.20N 25.54E 15 2.0L ¶600917159
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=1.1km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=2.7km az=14.0.
ISC V 21 12 54 25.6–1.7 41.25N–.08 25.55E–.04 11–11 20 1-1
DDA V 21 12 54 14.4 40.99N 25.92E 9 2.7 ¶600917160
ISCJB V 21 12 54 26.6–1.7 41.21N–.08 25.54E–.05 7–9 2.7
CSEM V 21 12 54 26.4–.52 41.24N 25.55E 10 1.7L
ATH V 21 12 54 26.3 41.21N 25.54E 18–3 1.7L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=6.5km az=6.4.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=4.7km az=7.0.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.6km az=183.0.
ISC V 21 23 52 08.8–1.3 41.26N–.03 25.55E–.02 22–5 70 1-2
ISCJB V 21 23 52 07.8–.83 41.27N–.03 25.56E–.04 7–7 ¶16854436
CSEM V 21 23 52 08.0–.18 41.29N 25.55E 12 2.9
THE V 21 23 52 08.5 41.26N 25.55E 7–1 1.8L
ATH V 21 23 52 08.1 41.20N 25.54E 30–1 1.7L
ISK V 21 23 52 10.0 41.30N 25.83E 18 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=168.1.
CSEM Event type ke.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=101.0.
ATH Event type ke. Error ellipse: s-maj=2.8km s-min=1.1km az=32.0.
ISC V 22 05 12 38.7–1.0 41.26N–.02 25.51E–.01 10–9 122 0-3
ISCJB V 22 05 12 38.6–.47 41.25N–.02 25.55E–.02 3–4 ¶16854502
ATH V 22 05 12 38.8 41.22N 25.52E 21–1 2.0L
ISK V 22 05 12 38.9 41.27N 25.57E 10 2.9
SOF V 22 05 12 39.3 41.32N 25.54E 5 2.6
THE V 22 05 12 39.1 41.27N 25.55E 8–1 2.1L
CSEM V 22 05 12 39.2–.12 41.26N 25.55E 8 2.0L
DDA V 22 05 12 40.9 41.11N 25.65E 6 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=14.3.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=29.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=108.0.
CSEM Event type ke.
ISC VI 19 02 37 26.8–1.1 41.66N–.02 23.90E–.02 1–10 136 0-5
ISCJB VI 19 02 37 27.0–.62 41.69N–.02 23.89E–.03 4–4 ¶16883214
CSEM VI 19 02 37 28.3–.13 41.65N 23.88E 10 2.5L
THE VI 19 02 37 28.7 41.64N 23.90E 5–1 2.6L
ATH VI 19 02 37 28.3 41.61N 23.89E 24–1 2.5L
SKO VI 19 02 37 28.9 41.69N 23.84E 8 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=165.9.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=90.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=187.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.4km az=175.0.

(364) Greece.

ISC I 02 14 40 11.4–.42 38.21N–.02 20.67E–.02 18–2 4.2b 564 0-122
BJI I 02 14 40 07.0 38.20N 20.70E 5 4.3b ¶15902860
IDC I 02 14 40 08.2–.57 38.23N 20.77E 0 4.1,4.1b
BEO I 02 14 40 08.1–.66 38.07N 20.02E 0 3.9,4.1b
MOS I 02 14 40 08.3–1.5 38.06N 20.64E 11 4.4b,4.1b
ATH I 02 14 40 10.7 38.18N 20.66E 17–0 3.9L,3.5
ISCJB I 02 14 40 10.7–.28 38.23N–.01 20.60E–.02 20–2 4.1b,3.4s
TIR I 02 14 40 11.0 38.22N 20.74E 6 3.7L,3.4s
CSEM I 02 14 40 11.5–.13 38.21N 20.68E 15 4.2b,3.4s
THE I 02 14 40 12.0 38.19N 20.74E 0–1 3.8L,3.4s
NEIC I 02 14 40 14.3–.50 38.26N 20.68E 43–5 4.2b,3.4s
PDG I 02 14 40 15.5–.33 38.48N 19.95E 11–1 3.9L,3.4s
SOF I 02 14 40 30.0 39.45N 21.64E 5 3.9L,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=13.2km s-min=11.4km az=160.0.
BEO Event type ke.
MOS Error ellipse: s-maj=6.9km s-min=4.1km az=69.8.
ATH Error ellipse: s-maj=0.7km s-min=0.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=28.8.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=30.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=195.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.7km az=176.0.
PDG Event type ke. Error ellipse: s-maj=136.9km s-min=23.8km az=90.0.
ISC I 03 12 11 25.8–.98 40.43N–.03 21.87E–.02 7–10 48 0-1
ISCJB I 03 12 11 25.7–.48 40.43N–.03 21.86E–.03 7–5 ¶16868182
CSEM I 03 12 11 25.7–.13 40.43N 21.88E 5 3.0
ATH I 03 12 11 25.7 40.43N 21.86E 5–1 3.0
THE I 03 12 11 26.1 40.40N 21.88E 11–1 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=163.0.
ATH Error ellipse: s-maj=0.7km s-min=0.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=221.0.
ATH I 05 07 42 39.8 38.40N 21.03E 38–2 2.6
CSEM I 05 07 42 40.4–.19 38.44N 21.04E 30 2.5L ¶600871331
ATH Error ellipse: s-maj=0.7km s-min=0.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=37.0.
ISC I 05 14 27 02.9–.88 38.89N–.01 20.57E–.02 14–6 216 0-7
ATH I 05 14 27 03.0 38.89N 20.61E 11–1 3.2L ¶16868198
CSEM I 05 14 27 03.0–.22 38.88N 20.57E 10 3.2L
THE I 05 14 27 03.0 38.89N 20.59E 6–1 3.3L
ISC Event type ke.
ATH Error ellipse: s-maj=0.4km s-min=0.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.1km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=278.0.
ATH I 07 01 27 21.0 40.65N 22.86E 12–1 3.0
SKO I 07 01 27 20.1 40.60N 22.83E 3 1.6L,1.2 ¶16868812
CSEM I 07 01 27 20.7–.19 40.66N 22.84E 20 3.0,1.2
THE I 07 01 27 20.6 40.64N 22.84E 13–1 1.6L,1.2
ATH Error ellipse: s-maj=0.6km s-min=0.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=4.1km az=38.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=293.0.
ISC I 07 12 24 43.5–1.2 40.46N–.02 21.83E–.02 2–11 58 0-2
ISCJB I 07 12 24 43.2–.63 40.46N–.03 21.83E–.03 4–6 ¶16868817
CSEM I 07 12 24 43.3–.14 40.46N 21.82E 7–0 3.4
THE I 07 12 24 43.9 40.45N 21.82E 2–2 2.0L
ATH I 07 12 24 44.1 40.42N 21.86E 5 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=159.8.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=138.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.6km az=232.0.
ATH Error ellipse: s-maj=0.8km s-min=0.6km az=-1.0.
ATH I 07 21 07 30.8 38.32N 22.26E 9–1 2.5
CSEM I 07 21 07 29.9–.18 38.34N 22.25E 15 2.5 ¶600871395
ATH Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=109.0.
ISC I 08 22 20 29.0–1.1 38.12N–.02 20.28E–.02 9–8 340 0-8
ATH I 08 22 20 26.9 38.04N 20.18E 10–1 3.5,3.1L ¶16868839
CSEM I 08 22 20 28.6–.17 38.10N 20.28E 2 2.9L,3.1L
THE I 08 22 20 29.5 38.11N 20.32E 6–0 2.9L,3.1L
ISC Event type ke.
ATH Error ellipse: s-maj=1.0km s-min=1.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.2km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=56.0.
ISC I 09 08 03 31.6–.95 39.11N–.01 21.44E–.01 9–7 3.6b 288 0-46
ISCJB I 09 08 03 31.2–.33 39.13N–.01 21.44E–.02 6–2 3.8b ¶16395293
CSEM I 09 08 03 31.3–.11 39.12N 21.47E 2 3.3L
ATH I 09 08 03 31.6 39.13N 21.48E 21–1 3.3,2.9L
THE I 09 08 03 31.6 39.13N 21.46E 0–1 3.0L,2.9L
IDC I 09 08 03 38.6–3.6 39.14N 21.42E 69–32 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=157.4.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=64.0.
ATH Error ellipse: s-maj=0.6km s-min=0.7km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=257.0.
IDC Error ellipse: s-maj=47.2km s-min=22.6km az=124.0.
ISC I 11 15 46 46.5–.80 38.75N–.01 22.20E–.01 14–5 3.7b 326 0-119
IDC I 11 15 46 44.2–.89 38.71N 22.20E 0 3.8,3.6 ¶16019196
ATH I 11 15 46 45.8 38.75N 22.20E 23–0 3.7L,3.4
ISCJB I 11 15 46 46.2–.21 38.76N–.01 22.20E–.02 19–2 3.6b,3.4
CSEM I 11 15 46 46.4–.08 38.74N 22.23E 10 3.4,3.4
THE I 11 15 46 46.1 38.75N 22.22E 6–1 3.8L,3.4
SOF I 11 15 46 57.6 39.59N 22.76E 2 3.8L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=17.4km s-min=16.8km az=69.0.
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=135.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=45.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=172.0.
ATH I 12 13 06 37.6 38.21N 20.42E 5 2.8
CSEM I 12 13 06 38.5–.96 38.20N 20.49E 5 2.8 ¶600871549
ATH Error ellipse: s-maj=5.9km s-min=3.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=19.4km s-min=7.3km az=66.0.
ISC I 12 14 57 53.5–.90 38.45N–.02 21.00E–.02 14–7 59 0-1
ISCJB I 12 14 57 53.6–.47 38.43N–.03 21.04E–.04 16–7 ¶16868931
CSEM I 12 14 57 53.4–.21 38.45N 21.01E 15 1.7L
THE I 12 14 57 53.2 38.44N 21.04E 18–0 1.7L
ATH I 12 14 57 53.6 38.45N 21.00E 17–3 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=139.4.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=159.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=130.0.
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
ATH I 12 21 28 37.8 38.42N 21.98E 11–1 2.2
CSEM I 12 21 28 37.8 38.42N 21.98E 11 2.2 ¶600871558
ATH Error ellipse: s-maj=0.7km s-min=0.9km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 13 15 44 32.9–1.0 38.72N–.02 21.29E–.02 14–8 117 0-1
CSEM I 13 15 44 32.7–.13 38.71N 21.29E 18–1 3.1 ¶600871583
ATH I 13 15 44 32.5 38.70N 21.29E 25–1 3.1
THE I 13 15 44 33.4 38.72N 21.29E 17–1 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=40.0.
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=238.0.
ISC I 14 01 13 30.2–.95 38.42N–.02 21.06E–.02 16–7 91 0-2
THE I 14 01 13 29.4 38.47N 21.03E 28–1 2.5L ¶16868959
ISCJB I 14 01 13 30.7–.54 38.42N–.02 21.09E–.03 15–3 2.5L
CSEM I 14 01 13 30.3–.21 38.42N 21.08E 15 2.5L
ATH I 14 01 13 30.2 38.41N 21.06E 17–2 3.0
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.1km az=321.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=151.6.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=49.0.
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
ATH I 14 12 20 18.2 40.43N 21.89E 5–2 3.0
CSEM I 14 12 20 17.9–.16 40.44N 21.89E 6–0 3.0 ¶600871602
ATH Error ellipse: s-maj=0.7km s-min=0.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=37.0.
ATH I 14 18 37 51.3 38.28N 22.51E 12–1 2.9
CSEM I 14 18 37 50.9–.09 38.28N 22.51E 15 1.6L ¶16868972
THE I 14 18 37 51.2 38.28N 22.52E 13–2 1.6L
ATH Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0.

CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=169.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.5km az=256.0.
ISC I 14 19 25 24.8–.76 40.74N–.01 23.36E–.01 15–4 259 0-7
SOF I 14 19 25 22.8 40.70N 23.40E 2 **¶16868973**
ATH I 14 19 25 23.8 40.74N 23.35E 21–0 3.5,3.0L
ISCJB I 14 19 25 23.5–.40 40.75N–.01 23.38E–.02 10–3 3.5,3.0L
CSEM I 14 19 25 24.4–.07 40.74N 23.37E 10 3.5,3.0L
THE I 14 19 25 24.7 40.73N 23.38E 8–0 3.2L,3.0L
IASPE I 14 19 25 24.5–.81 40.75N–.02 23.35E–.02 16–4 3.2L,3.0L
SKO I 14 19 25 25.3 40.74N 23.32E 4 3.4L,2.3
ISC Event type ke.
ATH Error ellipse: s-maj=0.8km s-min=0.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=14.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=87.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=343.0.
IASPE Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=139.0. GT5 selection from ISC bulletin. GT5 identified by Bondˇjr and McLaughlin (2009) selection criteria. Bondˇjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ATH I 15 09 09 51.5 40.41N 21.87E 5–3 2.9
CSEM I 15 09 09 51.5 40.41N 21.87E 5 2.9 **¶600871623**
ATH Error ellipse: s-maj=1.0km s-min=0.8km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 17 11 02 03.1–1.0 38.95N–.02 20.25E–.02 10–7 3.5b 258 0-73
ISCJB I 17 11 02 01.2–.51 38.92N–.02 20.10E–.03 4–3 3.5b **¶16014127**
PDG I 17 11 02 02.3–.65 38.98N 20.04E 4–1 3.4L
CSEM I 17 11 02 02.3–.16 38.94N 20.15E 2 3.5
THE I 17 11 02 03.2 38.94N 20.23E 0–1 3.3L
ATH I 17 11 02 03.1 38.93N 20.25E 16–1 3.5
IDC I 17 11 02 09.2–3.1 39.03N 20.40E 66–30 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.1km az=145.8.
PDG Event type ke. Error ellipse: s-maj=1.3km s-min=1.8km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=1.9km az=54.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.6km az=248.0.
ATH Error ellipse: s-maj=0.7km s-min=1.4km az=-1.0.
IDC Error ellipse: s-maj=31.0km s-min=17.8km az=135.0.
ATH I 17 17 01 10.1 38.41N 21.96E 8–1 2.6
CSEM I 17 17 01 09.7–.07 38.42N 21.96E 10 2.6 **¶600871679**
ATH Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=80.0.
ISC I 17 22 27 10.9–.83 38.77N–.01 23.43E–.01 15–6 268 0-8
ISCJB I 17 22 27 10.5–.28 38.78N–.01 23.45E–.02 19–3 **¶16869011**
CSEM I 17 22 27 10.7–.10 38.75N 23.41E 10 3.4
THE I 17 22 27 10.7 38.76N 23.43E 8–1 3.5L
ATH I 17 22 27 10.2 38.78N 23.45E 23–0 3.8L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=10.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=104.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=95.0.
ATH Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0.
CSEM I 18 20 46 28.4 38.65N 23.31E 23 2.6
ATH I 18 20 46 28.4 38.65N 23.31E 23–2 2.6 **¶600871725**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Error ellipse: s-maj=0.6km s-min=1.2km az=-1.0.
ISC I 19 09 35 46.9–1.3 38.04N–.03 20.55E–.05 10–6 66 0-1
THE I 19 09 35 44.9 37.91N 20.50E 1–5 2.3L **¶16871462**
ISCJB I 19 09 35 45.6–1.3 37.99N–.04 20.50E–.08 7–5 2.3L
CSEM I 19 09 35 46.0–.51 38.05N 20.50E 10 3.3
ATH I 19 09 35 47.5 38.10N 20.58E 5–3 3.3
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=6.3km s-min=1.1km az=238.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.1km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=5.0km az=57.0.
ATH Error ellipse: s-maj=0.9km s-min=2.1km az=-1.0.
ISC I 19 13 29 58.3–.98 38.38N–.02 21.78E–.02 9–8 66 0-1
ISCJB I 19 13 29 58.1–.62 38.38N–.02 21.79E–.03 10–7 **¶16871466**
CSEM I 19 13 29 58.2–.11 38.37N 21.79E 5 1.6L
THE I 19 13 29 58.0 38.38N 21.79E 13–2 1.6L
ATH I 19 13 29 58.4 38.37N 21.78E 3–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=143.7.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=47.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.5km az=52.0.
ATH Error ellipse: s-maj=0.9km s-min=0.7km az=-1.0.
ISC I 19 13 40 39.3–1.0 38.39N–.02 21.90E–.02 9–4 67 0-1
ISCJB I 19 13 40 38.8–.41 38.38N–.02 21.89E–.04 11–2 **¶16871467**
CSEM I 19 13 40 39.2–.09 38.40N 21.92E 5 1.6L
THE I 19 13 40 39.4 38.38N 21.86E 3–5 1.6L
ATH I 19 13 40 39.1 38.39N 21.91E 10–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.2km az=167.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=77.0.
THE Event type ke. Error ellipse: s-maj=5.1km s-min=0.5km az=57.0.
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
ISC I 20 01 09 32.6–.98 38.39N–.02 21.79E–.02 12–5 63 0-1
ISCJB I 20 01 09 32.4–.48 38.38N–.03 21.77E–.03 11–3 **¶16871480**
CSEM I 20 01 09 32.4–.12 38.40N 21.79E 10 1.3L
THE I 20 01 09 32.5 38.39N 21.80E 13–2 1.3L
ATH I 20 01 09 32.9 38.39N 21.78E 9–2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.3km az=23.7.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=177.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=47.0.
ATH Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0.
ATH I 20 19 19 32.3 38.42N 21.80E 8–3 2.6
CSEM I 20 19 19 31.4–.11 38.43N 21.82E 15 2.6 **¶600871781**
ATH Error ellipse: s-maj=0.7km s-min=0.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=48.0.
ISC I 20 21 06 57.2–.83 40.38N–.02 21.23E–.03 17–6 40 0-2
CSEM I 20 21 06 56.9–.19 40.38N 21.27E 18–1 2.9 **¶600871783**
ATH I 20 21 06 56.4 40.36N 21.21E 24–2 2.9
ISCJB I 20 21 06 57.5–.47 40.35N–.03 21.21E–.04 17–6 2.9
SKO I 20 21 06 58.7 40.41N 21.27E 12 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.4km az=130.0.
ATH Error ellipse: s-maj=1.6km s-min=1.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.2km az=178.0.
ISC I 20 22 23 54.4–.69 38.59N–.01 21.53E–.01 13–4 3.6b 421 0-76
IDC I 20 22 23 51.9–1.2 38.59N 21.41E 0 4.0s,3.9 **¶16014163**
PDG I 20 22 23 53.9–.12 38.58N 21.43E 13–0 3.7L,3.9
IASPE I 20 22 23 54.4–.76 38.59N–.01 21.54E–.01 14–4 3.6b,3.9
THE I 20 22 23 54.6 38.60N 21.54E 7–0 3.4L,3.9
ATH I 20 22 23 54.3 38.59N 21.53E 18–1 3.3L,3.3
ISCJB I 20 22 23 54.4–.20 38.60N–.01 21.51E–.01 18–2 3.9s,3.5b
CSEM I 20 22 23 54.6–.09 38.58N 21.54E 10 3.4L,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=18.5km az=80.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0.
IASPE Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=37.9. GT5 selection from ISC bulletin. GT5 identified by Bondˇjr and McLaughlin (2009) selection criteria. Bondˇjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=195.0.
ATH Error ellipse: s-maj=0.8km s-min=0.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=140.8.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=52.0.
ISC I 21 19 08 26.0–.75 38.28N–.02 20.67E–.02 16–5 3.7b 244 0-46
ATH I 21 19 08 25.7 38.25N 20.65E 15–1 3.3L,3.3 **¶16396484**
ISCJB I 21 19 08 26.1–.38 38.28N–.02 20.69E–.03 7–3 3.6b,3.5s
CSEM I 21 19 08 26.0–.21 38.27N 20.68E 2 3.1L,3.5s
THE I 21 19 08 26.4 38.29N 20.70E 1–2 3.1L,3.5s
IDC I 21 19 08 31.5–3.6 38.63N 20.93E 38–36 3.6,3.6s
ISC Event type ke.
ATH Error ellipse: s-maj=1.0km s-min=1.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=142.6.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.9km az=45.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=160.0.
IDC Error ellipse: s-maj=80.6km s-min=23.2km az=46.0.
ATH I 22 00 46 50.1 38.87N 23.02E 17–1 2.7
CSEM I 22 00 46 50.1 38.87N 23.02E 17 2.7 **¶600871853**
ATH Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 22 02 00 47.9 38.84N 21.20E 32–3 2.5
CSEM I 22 02 00 47.9 38.83N 21.20E 33 2.5 **¶600871857**
ATH Error ellipse: s-maj=1.9km s-min=4.8km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 24 14 38 03.5 40.27N 21.82E 25–2 2.9
CSEM I 24 14 38 03.5 40.27N 21.82E 25 2.9 **¶600871925**
ATH Error ellipse: s-maj=1.7km s-min=0.8km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 24 19 25 00.3 40.04N 21.37E 5–4 2.9
CSEM I 24 19 25 00.3 40.04N 21.37E 5 2.9 **¶600871944**
ATH Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 26 15 37 58.6 40.51N 21.26E 29–1 2.6
¶600872022
ATH Error ellipse: s-maj=0.6km s-min=1.2km az=-1.0.
ISC I 27 10 13 42.9–.83 38.22N–.02 23.15E–.02 13–5 68 0-1
ISCJB I 27 10 13 42.6–.37 38.25N–.03 23.16E–.03 14–2 **¶600872054**
CSEM I 27 10 13 42.6–.16 38.22N 23.15E 13–1 2.7
THE I 27 10 13 42.9 38.22N 23.14E 0–2 2.7L
ATH I 27 10 13 43.5 38.25N 23.21E 29–4 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=3.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=5.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.6km az=315.0.
ATH Error ellipse: s-maj=4.0km s-min=3.4km az=-1.0.
ISC I 27 16 35 54.2–.76 38.21N–.01 23.15E–.01 16–4 177 0-2
ISCJB I 27 16 35 54.2–.23 38.18N–.02 23.19E–.02 23–2 **¶16871606**
CSEM I 27 16 35 54.1–.09 38.20N 23.15E 15 2.8L
THE I 27 16 35 54.5 38.22N 23.17E 10–0 2.8L
ATH I 27 16 35 54.0 38.21N 23.15E 19–1 3.1,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=21.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=22.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=146.0.
ATH Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0.
ATH I 30 18 30 47.2 38.22N 23.15E 16–2 2.9,1.6L
CSEM I 30 18 30 47.2 38.22N 23.15E 16 2.9,1.6L **¶600872181**
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 01 19 52 23.4–.68 38.39N–.01 21.79E–.01 10–4 3.9b 248 0-74
IDC II 01 19 52 22.4–.97 38.50N 21.79E 0 3.7,3.7b **¶16168790**
ISCJB II 01 19 52 23.2–.24 38.41N–.01 21.77E–.02 11–2 3.7b,3.7b
CSEM II 01 19 52 23.4–.11 38.38N 21.80E 2 3.3L,3.7b
THE II 01 19 52 23.5 38.38N 21.79E 0–1 3.5L,3.7b
ATH II 01 19 52 23.1 38.39N 21.80E 16–1 3.3L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=17.9km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=142.5.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=56.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=37.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=195.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE II 02 15 03 45.0 38.38N 21.79E 12–1 2.1L
CSEM II 02 15 03 44.9–.09 38.39N 21.79E 8 1.8L **¶16871697**
ATH II 02 15 03 44.9 38.38N 21.80E 16–2 1.8L
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=2.0km az=177.0.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.8km az=158.0. Analyst: A. Fokaefs ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 03 09 34 04.8–.85 40.51N–.02 21.41E–.02 13–7 100 0-4
SKO II 03 09 34 03.9 40.41N 21.36E 0 3.0L,2.7 **¶16871712**
ISCJB II 03 09 34 04.6–.42 40.54N–.02 21.40E–.03 10–4 3.0L,2.7
CSEM II 03 09 34 04.7–.14 40.53N 21.40E 10 2.4L,2.7
ATH II 03 09 34 04.2 40.50N 21.42E 21–1 2.4L,2.7
THE II 03 09 34 05.1 40.49N 21.41E 8–1 2.6L,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=32.3.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=95.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=300.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=272.0.
ISC II 04 09 07 09.8–.77 38.04N–.02 21.22E–.02 15–4 4.0b 240 0-79
ISCJB II 04 09 07 09.2–.47 38.04N–.02 21.12E–.02 10–3 3.9b,3.8s **¶16397561**
CSEM II 04 09 07 09.9–.17 38.04N 21.19E 2 3.8L,3.8s
ATH II 04 09 07 09.9 38.05N 21.23E 17–0 3.6L,3.8s
THE II 04 09 07 10.9 38.04N 21.26E 0–1 3.8L,3.8s
IDC II 04 09 07 13.3–2.3 38.10N 21.29E 42–25 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=39.1.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=43.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=63.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=253.0.
IDC Error ellipse: s-maj=17.3km s-min=13.6km az=66.0.
THE II 04 12 12 09.8 38.42N 22.04E 9–1 2.4L
CSEM II 04 12 12 09.6–.13 38.42N 22.06E 2 2.3L **¶16871726**
ATH II 04 12 12 09.8 38.41N 22.03E 10–2 2.3L
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=71.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=152.0. Analyst: diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 04 15 48 30.5–.73 38.42N–.01 22.04E–.01 9–4 179 0-44
IDC II 04 15 48 29.9–2.4 38.47N 22.07E 0 3.5b,3.4 **¶16871730**
IASPE II 04 15 48 30.4–.77 38.42N–.01 22.03E–.01 10–4 3.5b,3.4
THE II 04 15 48 30.9 38.42N 22.04E 9–1 3.2L,3.4
ATH II 04 15 48 30.3 38.42N 22.04E 13–1 2.9L,3.4
CSEM II 04 15 48 30.3–.12 38.42N 22.04E 8 2.9L,3.4
ISCJB II 04 15 48 30.5–.24 38.43N–.01 22.04E–.02 7–2 3.4b,3.4
ISC Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˇjr and McLaughlin (2009) selection criteria. Bondˇjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
THE Event type ke.
ATH Event type ke. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke.
ISCJB Event type ke.
ISC II 04 17 13 13.1–.85 40.50N–.02 21.42E–.02 15–7 62 0-2
CSEM II 04 17 13 12.7–.17 40.49N 21.38E 15 2.2L **¶16871733**
ATH II 04 17 13 12.8 40.51N 21.44E 20–1 2.2L
ISCJB II 04 17 13 13.5–.43 40.49N–.03 21.38E–.04 20–6 2.2L
THE II 04 17 13 13.5 40.48N 21.40E 12–2 2.5L
SKO II 04 17 13 14.2 40.49N 21.43E 5 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.7km az=6.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=326.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.7km az=174.5.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=0.9km az=332.0.

THE II 04 17 13 29.5 38.42N 22.05E 9–2 2.6L
CSEM II 04 17 13 29.0–.15 38.44N 22.04E 2 2.6L ¶16871734
ATH II 04 17 13 29.0 38.42N 22.03E 9–2 2.3L
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.6km az=105.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=42.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.6km az=256.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 05 02 52 38.9–.70 38.42N–.01 22.04E–.01 8–4 3.7b 216 0-45
IDC II 05 02 52 38.0–.99 38.39N 22.12E 0 3.8,3.7 ¶16397631
IASPE II 05 02 52 38.8–.79 38.42N–.01 22.04E–.01 9–4 3.7b,3.7
ATH II 05 02 52 38.3 38.42N 22.03E 14–1 3.4L,3.7
CSEM II 05 02 52 38.7–.08 38.41N 22.05E 2 3.9L,3.7
ISCJB II 05 02 52 38.6–.22 38.42N–.01 22.04E–.02 10–2 3.6b,3.7
THE II 05 02 52 39.0 38.42N 22.03E 0–1 3.5L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=17.3km az=167.0.
IASPE Event type ke. Error ellipse: s-maj=2.1km s-min=2.1km az=34.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=223.0. Analyst: Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=145.2.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=117.0.
ISC II 05 18 30 21.7–.95 38.08N–.03 20.76E–.03 9–8 100 0-2
ATH II 05 18 30 20.9 38.03N 20.72E 13–2 2.1L ¶16871769
ISCJB II 05 18 30 21.1–.75 38.04N–.04 20.72E–.04 3–5 2.1L
CSEM II 05 18 30 21.4–.42 38.10N 20.71E 10 2.5L
THE II 05 18 30 21.5 38.05N 20.71E 9–1 2.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=322.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=32.2.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.6km az=56.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=13.0.
ISC II 09 08 13 11.1–.80 38.65N–.01 22.49E–.01 16–5 3.6b 398 0-121
ATH II 09 08 13 11.0 38.63N 22.49E 22–0 3.8L ¶16397873
CSEM II 09 08 13 11.7–.08 38.63N 22.51E 10 4.0L
ISCJB II 09 08 13 11.8–.19 38.65N–.01 22.47E–.01 22–2 3.6b
THE II 09 08 13 11.6 38.63N 22.52E 2–1 3.8L
IDC II 09 08 13 13.1–5.5 38.77N 22.43E 28–39 3.7,3.7
BEO II 09 08 13 14.5–1.2 38.84N 22.46E 0 3.3,3.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=183.0. Analyst: M.Ziazia ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=74.0.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=32.2.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=171.0.
IDC Error ellipse: s-maj=19.0km s-min=18.2km az=138.0.
BEO Event type ke.
ATH II 09 08 49 04.0 38.62N 22.48E 14–6 1.5L
CSEM II 09 08 49 03.9–.14 38.63N 22.48E 10 1.8L ¶16871886
THE II 09 08 49 03.9 38.63N 22.47E 14–2 1.8L
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=0.8km az=218.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=172.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.4km az=213.0.
ATH II 09 19 54 31.4 38.42N 21.99E 14–2 0.6L
CSEM II 09 19 54 31.4 38.42N 21.99E 14 0.6L ¶16871892
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.2km az=149.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 10 02 21 16.9–.59 38.93N–.01 21.13E–.01 10–4 3.7b 323 0-56
BEO II 10 02 21 14.6–4.0 38.44N 20.94E 48–6 3.4 ¶16024690
IDC II 10 02 21 14.9–1.0 39.13N 21.22E 0 3.7b,3.6
CSEM II 10 02 21 16.9–.10 38.95N 21.13E 5 3.3L,3.6
ISCJB II 10 02 21 16.9–.37 38.95N–.01 21.11E–.02 9–3 3.7b,3.6s
ATH II 10 02 21 16.8 38.95N 21.15E 17–0 3.3L,3.6s
THE II 10 02 21 17.1 38.94N 21.17E 0–1 3.4L,3.6s
ISC Event type ke.
BEO Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=14.6km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=148.7.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=245.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=244.0.
ISC II 10 02 38 19.1–.32 38.935N–.01 21.08E–.01 16–2 4.1b,3.8s 761 0-122
BJI II 10 02 38 12.4 38.35N 20.85E 17 5.0b,4.7 ¶16017976
IDC II 10 02 38 16.7–.59 39.03N 21.25E 0 4.0,4.0
MOS II 10 02 38 18.8–1.3 38.91N 21.03E 28 4.4b,4.0
PDG II 10 02 38 18.8–.58 38.98N 21.05E 10–1 4.4,4.3L
NEIC II 10 02 38 19.1 38.96N 21.18E 17 4.5b,4.2L
CSEM II 10 02 38 19.3–.08 38.94N 21.07E 10 4.2L,4.2W
THE II 10 02 38 19.3 38.94N 21.14E 0–1 4.2L,4.2W
ATH II 10 02 38 19.1 38.96N 21.18E 17–1 4.2L,4.2W
ISCJB II 10 02 38 19.2–.22 38.95N–.01 21.04E–.02 24–2 4.1b,3.8s
BEO II 10 02 38 20.1–.84 38.72N 20.89E 35–30 4.3,3.8s
ISC Event type fe.
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=28.0.
MOS Error ellipse: s-maj=6.7km s-min=3.6km az=84.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.8km az=0.0.
NEIC Event type fe. Felt at Preveza. After ATH.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=47.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=241.0.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=261.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.6km az=44.7.
BEO Event type ke.
ATH II 10 08 53 48.0 38.40N 21.87E 10–1 2.0L
CSEM II 10 08 53 48.0 38.40N 21.87E 10 2.0L ¶600896360
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=83.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 10 10 40 22.3–.82 39.68N–.01 21.18E–.02 10–5 3.7s,3.6b 175 0-72
IDC II 10 10 40 20.8–1.1 39.72N 20.96E 0 3.6,3.5 ¶16397951
ATH II 10 10 40 21.9 39.69N 21.19E 12–2 3.3L,3.5
ISCJB II 10 10 40 22.1–.44 39.70N–.02 21.17E–.02 7–3 3.7s,3.5b
CSEM II 10 10 40 22.4–.12 39.67N 21.20E 2 3.3L,3.5b
THE II 10 10 40 22.2 39.70N 21.17E 0–1 3.3L,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=18.3km az=107.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=291.0. Analyst: Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=73.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=319.0.
ISC II 11 17 56 57.1–.59 38.39N–.01 21.80E–.01 11–3 4.1b,3.7s 608 0-121
BJI II 11 17 56 54.1 38.40N 21.80E 12 5.0b,4.9 ¶16022186
ATH II 11 17 56 55.7 38.39N 21.80E 16–1 4.1L,4.9
IDC II 11 17 56 55.6–.62 38.42N 21.81E 0 4.0,4.0b
PDG II 11 17 56 56.7–.79 38.38N 21.84E 11–1 4.1L,4.0b
THE II 11 17 56 56.1 38.38N 21.78E 12–0 4.2L,4.0b
NEIC II 11 17 56 56.1 38.38N 21.78E 12 4.5b,4.2L
CSEM II 11 17 56 56.6–.09 38.37N 21.81E 5 4.2b,4.2L
ISCJB II 11 17 56 56.1–.21 38.39N–.01 21.78E–.01 12–1 4.1b,3.8s
MOS II 11 17 56 58.5–1.3 38.46N 21.77E 32 4.2b,3.8s
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=174.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=11.3km s-min=11.0km az=156.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.9km az=0.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=85.0.
NEIC Event type se. After THE.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=41.0.
MOS Error ellipse: s-maj=7.5km s-min=4.5km az=78.6.
ISC II 12 08 57 02.7–.75 38.40N–.01 21.80E–.01 9–4 3.5b 174 0-44
ATH II 12 08 57 01.7 38.39N 21.79E 14–1 3.1L ¶16398057
IDC II 12 08 57 01.1–1.5 38.53N 21.78E 0 3.5,3.5
ISCJB II 12 08 57 02.4–.28 38.40N–.01 21.79E–.02 3–2 3.5b,3.5
CSEM II 12 08 57 02.3–.10 38.39N 21.80E 2 3.2L,3.5
THE II 12 08 57 02.8 38.40N 21.80E 2–1 3.2L,3.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=100.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=32.9km s-min=26.7km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=41.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=47.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=256.0.
ISC II 12 09 23 36.2–.73 38.41N–.01 21.78E–.01 11–4 186 0-44
ISCJB II 12 09 23 35.9–.28 38.42N–.01 21.77E–.02 3–2 3.5b ¶16398058
CSEM II 12 09 23 35.9–.09 38.41N 21.78E 2 3.1L
ATH II 12 09 23 35.5 38.40N 21.79E 15–1 3.1L
IDC II 12 09 23 35.0–2.4 38.21N 21.92E 0 3.7b,3.5
THE II 12 09 23 36.3 38.41N 21.78E 2–1 3.2L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=17.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=134.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=147.5km s-min=25.6km az=145.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=296.0.
ISC II 12 09 27 38.9–.75 38.40N–.01 21.79E–.01 9–4 3.8b 205 0-45
IDC II 12 09 27 37.8–1.7 38.36N 21.84E 0 3.7b,3.5 ¶16398059
ISCJB II 12 09 27 38.7–.27 38.40N–.01 21.77E–.02 5–2 3.5b,3.5
CSEM II 12 09 27 38.6–.09 38.40N 21.78E 5 2.9L,3.5
ATH II 12 09 27 38.2 38.39N 21.78E 16–1 2.9L,3.5
THE II 12 09 27 39.2 38.40N 21.79E 2–1 3.1L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=104.6km s-min=24.0km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=20.9.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=22.0.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=195.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=315.0.
ISC II 12 11 37 37.0–.69 38.39N–.01 21.77E–.01 10–4 3.8b 300 0-74
IDC II 12 11 37 35.9–.99 38.41N 21.73E 0 3.8,3.8b ¶16168841
ISCJB II 12 11 37 36.7–.24 38.38N–.01 21.76E–.02 8–1 3.8s,3.7b
ATH II 12 11 37 36.3 38.38N 21.78E 16–1 3.5L,3.7b
CSEM II 12 11 37 37.2–.12 38.36N 21.79E 10 3.5L,3.7b
THE II 12 11 37 37.0 38.39N 21.78E 6–1 3.6L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=18.4km s-min=15.6km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=39.4.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=200.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=51.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=274.0.
ISC II 13 00 17 23.4–.75 38.72N–.01 22.83E–.01 15–5 3.5b 295 0-73
IDC II 13 00 17 20.8–.84 38.70N 22.83E 0 3.6,3.5 ¶16398083
ISCJB II 13 00 17 23.0–.36 38.75N–.01 22.84E–.02 11–3 3.5b,3.5
ATH II 13 00 17 22.7 38.71N 22.81E 17–1 3.7L,3.5
CSEM II 13 00 17 23.1–.09 38.72N 22.83E 2 3.7L,3.5
THE II 13 00 17 23.4 38.72N 22.82E 0–1 3.8L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=15.7km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=11.9.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=110.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=99.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.5km az=41.0.
ATH II 13 17 59 16.9 38.40N 21.79E 14–2 1.4L
CSEM II 13 17 59 17.0 38.40N 21.79E 14 1.4L ¶600896461
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=74.0. Analyst: Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH II 14 06 59 29.4 38.39N 21.81E 14–2 2.0L
CSEM II 14 06 59 29.4 38.39N 21.81E 14 2.0L ¶602892331
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.0km az=79.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE II 14 06 59 36.5 38.38N 21.80E 13–2 2.9L
CSEM II 14 06 59 36.5 38.38N 21.80E 13 2.9L ¶600896494
THE Event type ke. Error ellipse: s-maj=3.1km s-min=0.8km az=68.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH II 14 08 58 11.9 39.03N 22.15E 18–3 1.7L
CSEM II 14 08 58 11.9 39.03N 22.15E 18 1.7L ¶600896501
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=292.0. Analyst: A. Fokaefs ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH II 15 13 15 25.0 38.41N 22.03E 8–2 1.3L
CSEM II 15 13 15 25.0 38.41N 22.03E 8 1.3L ¶600896542
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=314.0. Analyst: Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 19 22 27 38.1–.73 38.51N–.01 21.67E–.01 13–4 3.3b 223 0-44
ISCJB II 19 22 27 37.7–.26 38.52N–.01 21.66E–.02 9–2 3.2b ¶16398567
CSEM II 19 22 27 37.7–.09 38.51N 21.68E 5 3.7L
THE II 19 22 27 37.8 38.51N 21.66E 0–2 3.2L
ATH II 19 22 27 37.1 38.52N 21.67E 19–0 3.0L
IDC II 19 22 27 37.8–1.6 38.53N 21.83E 0 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=59.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.6km az=302.0.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=211.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=35.4km s-min=27.8km az=133.0.
ISC II 20 19 24 08.9–.73 38.51N–.01 21.67E–.01 11–4 3.7b 345 0-73
TIR II 20 19 24 01.8 38.02N 21.51E 43 3.9L ¶16168882
ISK II 20 19 24 07.1 38.46N 21.71E 7 3.4L
IDC II 20 19 24 07.2–1.0 38.53N 21.57E 0 3.8,3.7b
ATH II 20 19 24 08.3 38.51N 21.68E 18–1 3.4L,3.7b
CSEM II 20 19 24 08.6–.08 38.51N 21.67E 5 3.8L,3.7b
THE II 20 19 24 08.8 38.50N 21.68E 0–1 3.4L,3.7b
ISCJB II 20 19 24 08.2–.25 38.54N–.01 21.63E–.02 10–2 3.7b,3.2s
ISC Event type ke.
ATH Event type ke. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ATH II 20 21 38 08.9 38.52N 21.69E 16–3 1.3L
CSEM II 20 21 38 08.9 38.52N 21.69E 16 1.3L ¶600896700
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=31.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 20 21 57 17.6–.71 38.50N–.01 21.67E–.01 13–4 4.0b 400 0-45

TIR II 20 21 57 10.8 38.16N 20.65E 29 4.0b **¶16168090**
ATH II 20 21 57 16.7 38.51N 21.68E 18–0 3.5L
ISCJB II 20 21 57 16.9–.24 38.53N–.01 21.64E–.02 10–2 4.0s,3.9b
IDC II 20 21 57 16.4–1.0 38.61N 21.60E 0 4.1,4.1s
PDG II 20 21 57 17.2–.39 38.51N 21.66E 11–0 3.7L,4.1s
THE II 20 21 57 17.7 38.51N 21.69E 2–1 3.7L,4.1s
CSEM II 20 21 57 17.3–.08 38.50N 21.67E 5 3.5L,4.1s
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=200.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=135.5.
IDC Error ellipse: s-maj=16.9km s-min=16.6km az=95.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=202.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=48.0.
ISC II 21 00 12 25.7–.71 38.50N–.01 21.65E–.01 13–4 3.6b 310 0-45
ATH II 21 00 12 25.0 38.50N 21.68E 20–0 3.1L **¶16398633**
IDC II 21 00 12 24.1–1.2 38.57N 21.52E 0 3.6,3.6b
ISCJB II 21 00 12 25.3–.24 38.53N–.01 21.64E–.02 12–2 3.5b,3.6b
CSEM II 21 00 12 25.5–.09 38.50N 21.67E 5 3.1L,3.6b
THE II 21 00 12 25.8 38.51N 21.68E 0–1 3.3L,3.6b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=189.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=20.9km s-min=18.2km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=142.6.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=54.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=305.0.
CSEM II 21 04 29 51.4–.06 38.34N 22.29E 5 1.6L
THE II 21 04 29 51.7 38.33N 22.30E 6–1 1.7L **¶16872102**
ATH II 21 04 29 51.1 38.34N 22.29E 13–2 1.6L
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=212.0.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=0.6km az=346.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ATH II 23 14 56 36.7 38.52N 22.30E 17–5 1.3L
CSEM II 23 14 56 22.7–.72 39.04N 22.98E 2 1.3L **¶600896836**
ATH Event type ke. Error ellipse: s-maj=5.3km s-min=1.6km az=155.0. Analyst: Koutrakis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=30.7km s-min=6.3km az=150.0.
ISC II 24 23 29 46.8–.71 38.39N–.01 21.79E–.01 8–4 3.9b 238 0-72
ATH II 24 23 29 45.9 38.39N 21.81E 16–0 3.5L **¶16168920**
IDC II 24 23 29 45.8–.83 38.38N 21.90E 0 3.8b,3.8
ISCJB II 24 23 29 46.3–.24 38.38N–.01 21.78E–.02 8–2 3.8b,3.8s
CSEM II 24 23 29 46.8–.13 38.34N 21.79E 10 3.5L,3.8s
THE II 24 23 29 46.4 38.39N 21.78E 0–1 3.7L,3.8s
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=204.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=17.1km s-min=16.2km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=144.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=51.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.4km az=325.0.
ISC II 26 12 22 16.9–.90 40.65N–.03 21.16E–.04 14–7 36 0-2
ISCJB II 26 12 22 16.9–.54 40.64N–.04 21.20E–.06 12–5 **¶600896905**
ATH II 26 12 22 16.4 40.64N 21.20E 21–1 2.3L
CSEM II 26 12 22 16.7–.27 40.65N 21.21E 10 2.3L
SKO II 26 12 22 18.7 40.69N 21.19E 8 2.5L,1.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.9km az=37.1.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.2km az=309.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.5km az=135.0.
ISC II 26 22 34 15.3–.92 38.70N–.01 22.79E–.01 7–7 210 0-8
ATH II 26 22 34 14.3 38.70N 22.78E 18–1 3.0L **¶16872186**
CSEM II 26 22 34 15.1–.10 38.69N 22.79E 2 3.5L
THE II 26 22 34 15.1 38.70N 22.80E 0–1 3.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=116.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=126.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.4km az=107.0.
ISC II 28 17 59 16.9–.85 38.70N–.01 22.79E–.01 11–6 186 0-8
ISCJB II 28 17 59 16.5–.30 38.72N–.01 22.78E–.02 7–3 **¶16872200**
CSEM II 28 17 59 16.6–.09 38.71N 22.79E 5 3.5L
THE II 28 17 59 16.7 38.71N 22.77E 5–0 3.3L
ATH II 28 17 59 16.2 38.71N 22.79E 21–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=39.4.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=115.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=324.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=140.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ATH III 02 01 08 58.3 38.52N 21.69E 18–2 1.7L
CSEM III 02 01 08 58.3 38.52N 21.69E 18 1.7L **¶600896957**
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=307.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 06 03 14 45.7 40.69N 21.92E 18–7 1.9L
SKO III 06 03 14 44.5 40.70N 21.91E 29 2.0L,1.5 **¶16872275**
CSEM III 06 03 14 45.4–.11 40.71N 21.92E 17–1 1.9L,1.5
THE III 06 03 14 45.7 40.72N 21.92E 16–1 1.8L,1.5
ATH Event type ke. Error ellipse: s-maj=7.1km s-min=1.0km az=270.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=138.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=300.0.
ISC III 07 12 26 41.4–.81 38.38N–.02 20.68E–.02 15–6 3.7b 195 0-60
IDC III 07 12 26 38.9–1.2 38.46N 20.59E 0 3.7,3.7b **¶16461121**
ISCJB III 07 12 26 40.9–.48 38.37N–.02 20.55E–.04 18–3 3.6b,3.2s
CSEM III 07 12 26 41.4–.20 38.37N 20.65E 8 3.9L,3.2s
ATH III 07 12 26 41.3 38.38N 20.71E 16–1 3.4L,3.2s
THE III 07 12 26 42.1 38.38N 20.70E 0–1 3.6L,3.2s
BEO III 07 12 26 44.0–1.1 38.55N 20.81E 0 3.5,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=22.4km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=153.8.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.7km az=53.0.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=245.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=260.0.
BEO Event type ke.
ISC III 07 17 10 53.7–.73 38.24N–.01 22.54E–.01 14–4 3.5b 215 0-74
IDC III 07 17 10 52.1–1.0 38.34N 22.56E 0 3.7,3.6 **¶16484563**
ATH III 07 17 10 53.7 38.25N 22.55E 15–1 3.5L,3.6
ISCJB III 07 17 10 53.9–.28 38.27N–.02 22.54E–.02 12–2 3.5b,3.6
CSEM III 07 17 10 53.9–.08 38.24N 22.55E 5 3.5L,3.6
THE III 07 17 10 54.3 38.25N 22.55E 2–1 3.7L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=19.5km s-min=18.6km az=154.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.5km az=15.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=14.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=11.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.3km az=141.0.
ATH III 11 08 11 15.7 38.68N 22.83E 9–4 1.5L
CSEM III 11 08 11 15.6 38.68N 22.83E 9 1.5L **¶600897128**
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=0.8km az=91.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 11 16 21 27.7–.98 40.59N–.02 21.64E–.02 7–10 52 0-2
ISCJB III 11 16 21 27.7–.52 40.59N–.03 21.63E–.04 2–7 **¶16872318**
CSEM III 11 16 21 27.6–.26 40.59N 21.62E 8 2.1L
ATH III 11 16 21 27.6 40.57N 21.62E 18–3 2.1L
SKO III 11 16 21 28.7 40.60N 21.64E 3 2.1L,1.6
THE III 11 16 21 28.0 40.57N 21.62E 11–2 2.1L,1.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.5km az=40.4.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=148.0.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=270.0. Analyst: Ch. Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.7km az=341.0.
ISC III 11 21 12 30.9–.88 38.16N–.02 21.61E–.02 29–4 122 0-2
ATH III 11 21 12 30.0 38.16N 21.63E 32–0 2.2L **¶16872324**
CSEM III 11 21 12 30.8–.14 38.15N 21.61E 21–1 2.4L
THE III 11 21 12 31.1 38.15N 21.61E 27–0 2.4L
ISCJB III 11 21 12 31.0–.33 38.16N–.02 21.61E–.03 29–2 2.4L
ISC Event type ke.
ATH Event type ke. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ATH III 12 05 06 03.0 38.40N 21.80E 15–3 1.1L
CSEM III 12 05 06 03.0 38.40N 21.80E 15 1.1L **¶600897159**
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=73.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE III 12 07 30 05.4 40.65N 22.87E 10–1 1.3L
CSEM III 12 07 30 05.9–.32 40.64N 22.88E 2 1.3L **¶601070182**
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=39.0.
ATH III 12 12 45 59.4 38.51N 20.38E 21–8 1.3L
CSEM III 12 12 45 59.4 38.51N 20.38E 21 1.3L **¶600897167**
ATH Event type ke. Error ellipse: s-maj=8.6km s-min=1.6km az=92.0. Analyst: Ch. Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 12 21 13 49.7 38.26N 21.73E 19–3 1.1L
CSEM III 12 21 13 49.7 38.26N 21.73E 19 1.1L **¶600897172**
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=129.0. Analyst: Ch. Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 13 08 45 05.5 38.93N 21.80E 12–2 2.0L
CSEM III 13 08 45 05.5 38.93N 21.80E 12 2.0L **¶600897191**
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=282.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 13 11 15 20.2–.56 38.99N–.01 20.72E–.02 17–4 3.6b 225 0-45
IDC III 13 11 15 13.6–1.3 38.82N 20.29E 0 3.9,3.9s **¶16477476**
ISCJB III 13 11 15 20.0–.42 39.04N–.02 20.70E–.03 7–3 3.8s,3.5b
CSEM III 13 11 15 20.1–.21 39.02N 20.71E 2 3.2L,3.5b
THE III 13 11 15 20.8 39.01N 20.75E 0–2 3.2L,3.5b
ATH III 13 11 15 20.0 39.02N 20.79E 8–1 3.1L,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=22.3km s-min=19.1km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.5km az=164.3.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.0km az=66.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.7km az=254.0.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=255.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
ATH III 13 14 51 18.8 38.26N 21.74E 20–2 1.3L
CSEM III 13 14 51 18.8 38.26N 21.74E 20 1.3L **¶600897199**
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=82.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 14 00 54 57.9 38.27N 21.73E 20–3 0.9L
CSEM III 14 00 54 57.9 38.27N 21.73E 20 0.9L **¶600897260**
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=0.8km az=58.0. Analyst: M.Ziazia ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 03 04 22.8–.82 38.26N–.01 21.73E–.01 18–3 127 0-1
CSEM III 14 03 04 22.7–.09 38.26N 21.72E 15 2.0L **¶16872365**
ATH III 14 03 04 22.6 38.26N 21.73E 23–1 2.0L
THE III 14 03 04 23.1 38.26N 21.74E 18–0 2.2L
ISCJB III 14 03 04 23.4–.32 38.26N–.02 21.73E–.02 17–5 2.2L
ISC Event type ke.
CSEM Event type ke.
ATH Event type ke. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke.
ISCJB Event type ke.
ATH III 14 16 08 57.8 38.44N 21.82E 18–4 1.3L
CSEM III 14 16 08 57.8 38.44N 21.82E 18 1.3L **¶600897275**
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.1km az=21.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 14 22 25 25.9 38.54N 21.91E 20–2 1.2L
CSEM III 14 22 25 25.9 38.54N 21.91E 20 1.2L **¶600897288**
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=88.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 16 16 07 24.1–.73 38.46N–.01 20.45E–.02 19–3 4.5b,4.0s 778 0-122
BJI III 16 16 07 20.6 38.50N 20.40E 10 5.0b,4.9s **¶16339096**
TIR III 16 16 07 21.4–3.3 38.39N 20.60E 20–24 4.1L,4.9s
IDC III 16 16 07 21.1–.53 38.52N 20.49E 0 4.4,4.4b
MOS III 16 16 07 22.6–1.4 38.47N 20.33E 25 4.8b,4.4b
ISCJB III 16 16 07 23.2–.36 38.49N–.02 20.33E–.02 26–2 4.5b,4.0s
ATH III 16 16 07 23.9 38.44N 20.51E 20–1 4.5L,4.0s
PDG III 16 16 07 23.5–.69 38.57N 20.42E 7–1 4.3L,4.0s
NEIC III 16 16 07 23.3–.30 38.51N 20.41E 10 4.6b,4.3L
CSEM III 16 16 07 24.4–.13 38.47N 20.39E 20 4.6b,4.3L
THE III 16 16 07 24.5 38.45N 20.49E 0–1 4.5L,4.3L
DDA III 16 16 08 10.7 38.98N 25.02E 5 4.5L,4.3L
ISC Event type fe.
TIR Error ellipse: s-maj=21.3km s-min=18.9km az=-1.0.
IDC Error ellipse: s-maj=12.0km s-min=10.5km az=157.0.
MOS Error ellipse: s-maj=6.3km s-min=3.0km az=71.5.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=1.8km az=42.5.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=253.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.2km az=0.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=4.0km az=206.0. Felt at Nydri, Preveza, Sami and Zevgolateion.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.2km az=38.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=256.0.
THE III 18 21 45 48.8 38.73N 20.47E 15–1 2.3L
CSEM III 18 21 45 48.8 38.73N 20.47E 15 2.3L **¶602003208**
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=107.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 18 21 46 04.1 38.27N 21.72E 20–2 2.1L
CSEM III 18 21 46 04.1 38.27N 21.72E 20 2.1L **¶16872438**
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=327.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 18 21 55 36.6 38.39N 21.77E 10–3 1.6L
CSEM III 18 21 55 36.2–.11 38.39N 21.78E 10 1.6L **¶600897431**
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=0.7km az=94.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=23.0.
ISC III 19 08 38 09.7–1.0 39.16N–.01 21.71E–.01 5–8 3.8b 210 0-44
IDC III 19 08 38 07.7–3.2 39.81N 20.92E 0 3.9,3.9 **¶16479378**
CSEM III 19 08 38 09.9–.09 39.14N 21.71E 5 3.1L,3.9
ATH III 19 08 38 09.5 39.14N 21.70E 24–1 3.1L,3.9

ISCJB III 19 08 38 09.7–.41 39.15N–.01 21.69E–.02 7–3 3.8b,3.9
THE III 19 08 38 10.1 39.15N 21.72E 2–1 3.3L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=323.3km s-min=25.6km az=136.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=82.0.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=247.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=158.4.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=163.0.
ATH III 21 13 09 54.1 38.45N 22.37E 11–4 1.8L
CSEM III 21 13 09 54.1 38.45N 22.37E 11 1.8L **¶600897500**
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=0.8km az=63.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 22 00 42 58.5 38.40N 21.87E 8–2 1.3L
CSEM III 22 00 42 58.1–.14 38.39N 21.88E 8 1.3L **¶600897514**
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=83.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=47.0.
ISC III 22 08 59 49.5–.78 38.51N–.02 21.89E–.02 14–4 88 0-2
CSEM III 22 08 59 49.5–.12 38.51N 21.88E 8 2.3L **¶16872504**
THE III 22 08 59 49.5 38.49N 21.90E 15–1 2.3L
ATH III 22 08 59 49.5 38.50N 21.88E 14–2 2.1L
ISCJB III 22 08 59 49.8–.33 38.50N–.02 21.88E–.03 9–3 2.1L
ISC Event type ke.
CSEM Event type ke.
THE Event type ke.
ATH Event type ke. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke.
THE III 23 15 30 53.7 38.39N 21.79E 16–1 2.0L
CSEM III 23 15 30 53.8–.08 38.41N 21.80E 10 1.8L **¶16872514**
ATH III 23 15 30 54.0 38.40N 21.80E 13–2 1.8L
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=55.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=96.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 24 10 03 59.3–.80 38.24N–.01 23.89E–.02 14–5 112 0-2
THE III 24 10 03 59.6 38.24N 23.88E 11–1 2.4L **¶16872522**
CSEM III 24 10 03 59.1–.12 38.24N 23.91E 10 2.2L
ATH III 24 10 03 59.2 38.24N 23.89E 16–2 2.2L
ISCJB III 24 10 03 59.3–.46 38.24N–.02 23.90E–.03 7–3 2.2L
ISC Event type ke.
THE Event type ke.
CSEM Event type ke.
ATH Event type ke. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke.
ATH III 25 04 48 07.5 38.24N 22.55E 13–5 1.5L
CSEM III 25 04 48 07.5 38.24N 22.55E 13 1.5L **¶600897624**
ATH Event type ke. Error ellipse: s-maj=5.0km s-min=1.0km az=336.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 25 11 31 39.2 38.82N 23.10E 21–4 1.1L
CSEM III 25 11 31 39.2 38.82N 23.10E 21 1.1L **¶600897632**
ATH Event type ke. Error ellipse: s-maj=6.7km s-min=1.0km az=118.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 25 21 47 26.1–1.2 38.26N–.03 20.29E–.03 9–9 128 0-7
CSEM III 25 21 47 26.1–.29 38.25N 20.25E 2 3.0L **¶16872551**
THE III 25 21 47 26.6 38.25N 20.27E 1–1 3.0L
ATH III 25 21 47 26.0 38.24N 20.26E 18–1 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.5km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=240.0.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.2km az=60.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 25 23 13 29.7–.73 38.39N–.01 22.00E–.01 8–4 167 0-44
ISCJB III 25 23 13 29.6–.24 38.40N–.02 21.98E–.02 11–2 3.4b **¶16480924**
CSEM III 25 23 13 29.7–.09 38.38N 22.00E 5 3.1L
IASPE III 25 23 13 29.6–.77 38.39N–.02 22.00E–.01 8–4 3.1L
ATH III 25 23 13 29.4 38.38N 22.00E 17–1 3.1L
IDC III 25 23 13 29.0–1.4 38.07N 22.19E 0 3.4,3.3
THE III 25 23 13 30.1 38.39N 22.00E 9–0 3.4L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=20.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=31.0.
IASPE Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=9.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=250.0. Analyst: Diakogianni-Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=38.9km s-min=20.4km az=140.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=148.0.
ATH III 26 03 06 11.2 40.84N 22.91E 11–5 1.2L
CSEM III 26 03 06 10.5–.20 40.84N 22.89E 20–0 1.2L **¶16872559**
SKO III 26 03 06 10.5 40.84N 22.90E 20 1.7L,1.3
THE III 26 03 06 11.5 40.85N 22.91E 5–6 1.5L,1.3
ATH Event type ke. Error ellipse: s-maj=5.3km s-min=0.7km az=198.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=49.0.
THE Event type ke. Error ellipse: s-maj=6.4km s-min=0.3km az=187.0.
SKO III 26 07 38 18.0 40.85N 22.91E 22 1.6L,1.3
¶601108975
ISC III 27 04 59 21.5–.94 38.33N–.02 20.60E–.03 18–3 86 0-8
ISCJB III 27 04 59 21.4–.57 38.31N–.03 20.53E–.04 18–6 **¶16872572**
CSEM III 27 04 59 21.5–.20 38.31N 20.59E 12 2.5L
ATH III 27 04 59 21.5 38.32N 20.60E 18–1 2.5L
THE III 27 04 59 22.0 38.34N 20.64E 14–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=143.7.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.0km az=42.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=189.0. Analyst: Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=257.0.
ISC III 30 19 57 27.8–.81 40.48N–.01 23.69E–.01 13–6 203 0-5
ATH III 30 19 57 26.9 40.46N 23.69E 19–1 2.5L **¶16495865**
ISCJB III 30 19 57 27.2–.35 40.47N–.01 23.70E–.02 6–3 2.5L
ISK III 30 19 57 27.5 40.47N 23.66E 7 2.9
CSEM III 30 19 57 27.1–.12 40.47N 23.75E 5 2.5L
THE III 30 19 57 27.8 40.48N 23.67E 10–1 2.5L
SOF III 30 19 57 29.2 40.59N 23.72E 4 2.6
BEO III 30 19 57 30.0–2.1 40.62N 23.79E 13–1 2.4
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=328.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=153.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=41.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=329.0.
BEO Event type ke.
ATH III 30 19 57 28.5 38.41N 21.81E 16–3 0.7L
CSEM III 30 19 57 28.5 38.41N 21.81E 16 0.7L **¶600913670**
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.3km az=54.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 02 19 57 13.1–.95 38.78N–.01 22.49E–.01 10–8 279 0-8
ATH IV 02 19 57 12.7 38.78N 22.50E 21–1 3.0L **¶16881368**
THE IV 02 19 57 13.1 38.78N 22.49E 0–0 2.9L
CSEM IV 02 19 57 13.5–.10 38.76N 22.50E 10 3.0L

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=173.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=353.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=116.0.
ATH IV 06 11 29 59.3 38.19N 22.07E 12–2 1.7L
CSEM IV 06 11 29 59.5–.11 38.19N 22.07E 5 1.7L **¶16881435**
THE IV 06 11 29 59.5 38.19N 22.08E 10–1 1.8L
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=0.7km az=297.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=45.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.3km az=313.0.
ATH IV 12 04 03 09.5 38.24N 22.73E 14–1 2.1L
THE IV 12 04 03 09.6 38.22N 22.73E 13–1 2.4L **¶16881523**
CSEM IV 12 04 03 09.5–.08 38.25N 22.74E 10 2.1L
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.4km az=111.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=193.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=5.0.
ISC IV 13 02 32 27.4–.71 38.26N–.01 22.19E–.01 11–4 3.6b 312 0-76
IDC IV 13 02 32 26.6–.93 38.25N 22.29E 0 3.6,3.6b **¶16505355**
ISCJB IV 13 02 32 27.3–.22 38.26N–.01 22.19E–.02 11–1 3.6b,3.6b
ATH IV 13 02 32 27.2 38.26N 22.19E 15–1 3.2L,3.6b
CSEM IV 13 02 32 27.4–.07 38.26N 22.19E 5 3.2L,3.6b
THE IV 13 02 32 27.6 38.26N 22.20E 7–0 3.4L,3.6b
ISK IV 13 02 32 29.5 38.39N 22.43E 14 3.3L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=17.8km s-min=16.5km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=36.8.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=273.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=28.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.2km az=241.0.
THE IV 15 22 36 15.4 38.56N 21.89E 19–0 2.0L
ATH IV 15 22 36 15.0 38.56N 21.90E 23–2 1.8L **¶16881576**
CSEM IV 15 22 36 15.2–.10 38.56N 21.90E 15 1.8L
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=40.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=86.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=52.0.
ISC IV 17 13 45 45.5–.80 38.09N–.01 21.93E–.01 9–5 3.5b 223 0-88
ATH IV 17 13 45 45.0 38.09N 21.92E 18–0 3.1L **¶16707208**
ISCJB IV 17 13 45 45.4–.26 38.09N–.01 21.93E–.02 6–2 3.4b
CSEM IV 17 13 45 45.3–.10 38.08N 21.92E 8 3.1L
THE IV 17 13 45 45.7 38.08N 21.93E 5–1 3.3L
IDC IV 17 13 45 46.0–1.2 38.20N 22.19E 0 3.5,3.5b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=262.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=140.3.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=41.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=205.0.
IDC Error ellipse: s-maj=37.3km s-min=23.7km az=143.0.
ISC IV 19 08 23 05.9–.91 40.56N–.02 21.02E–.02 14–7 89 0-3
TIR IV 19 08 23 05.0 40.61N 20.03E 7 2.9L **¶16545158**
ISCJB IV 19 08 23 05.7–.45 40.62N–.02 21.01E–.03 11–3 2.9L
CSEM IV 19 08 23 05.8–.19 40.59N 21.03E 8 2.5L
ATH IV 19 08 23 05.7 40.57N 21.06E 21–1 2.5L
THE IV 19 08 23 05.8 40.58N 20.99E 10–1 2.8L
SKO IV 19 08 23 06.5 40.52N 21.06E 2 2.7L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.7km az=20.3.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=104.0.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=318.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=286.0.
ISC IV 19 12 13 18.5–.42 38.09N–.02 22.06E–.02 54–3 4.5b,3.2s 1006 0-121
BJI IV 19 12 13 14.6 38.63N 21.42E 44 4.8b,4.6b **¶16447756**
MOS IV 19 12 13 15.1–1.7 38.03N 22.00E 33 4.6b,4.6b
PDG IV 19 12 13 18.3–.80 38.11N 21.95E 62–2 4.6L,4.6b
IDC IV 19 12 13 18.7–1.3 38.17N 22.04E 55–13 4.4,4.2
ISCJB IV 19 12 13 18.2–.12 38.15N–.01 22.00E–.01 67–1 4.4b,4.2
ATH IV 19 12 13 18.8 38.12N 22.08E 58–1 4.4L,4.2
TIR IV 19 12 13 18.3 38.53N 22.18E 4 4.0L,4.2
CSEM IV 19 12 13 19.2–.07 38.13N 21.98E 60 4.5b,4.0W
NEIC IV 19 12 13 19.0 38.10N 22.08E 55 4.5b,4.0W
HLW IV 19 12 13 20.4 37.93N 22.57E 33–24 4.2,3.9L
THE IV 19 12 13 20.1 38.11N 22.09E 52–1 4.5L,3.9L
ISC Event type ke.
MOS Error ellipse: s-maj=5.6km s-min=3.6km az=80.7.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0.
IDC Error ellipse: s-maj=9.3km s-min=8.4km az=44.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=33.8.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=249.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=34.0.
NEIC Event type fe. Felt at Kalavryta, Nea Filadelfeia, Patrai and Zakharo. After ATH.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=231.0.
ISC IV 21 05 17 26.1–.83 38.75N–.01 22.22E–.01 12–6 3.4b 323 0-73
IDC IV 21 05 17 24.8–1.0 38.86N 22.25E 0 3.6,3.5 **¶16505463**
ISCJB IV 21 05 17 25.9–.30 38.78N–.01 22.21E–.02 7–2 3.5b,3.5
ATH IV 21 05 17 25.9 38.76N 22.21E 23–0 3.4L,3.5
THE IV 21 05 17 26.5 38.75N 22.21E 3–0 3.6L,3.5
CSEM IV 21 05 17 26.3–.07 38.75N 22.23E 5 3.4L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=20.1km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=1.6.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=231.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=187.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=95.0.
ATH IV 21 16 53 08.4 38.65N 23.42E 26–3 1.6L
CSEM IV 21 16 53 08.6–.24 38.66N 23.44E 20 1.6L **¶600916357**
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.0km az=340.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=108.0.
ISC IV 22 01 20 25.3–.86 38.40N–.01 23.64E–.01 10–6 3.7b,3.1s 502 0-74
IDC IV 22 01 20 24.1–.92 38.40N 23.60E 0 3.8,3.7 **¶16649120**
THE IV 22 01 20 24.8 38.39N 23.64E 1–1 3.9L,3.7
CSEM IV 22 01 20 24.7–.07 38.40N 23.65E 2 3.9L,3.7
ISCJB IV 22 01 20 24.1–.28 38.42N–.01 23.68E–.01 6–2 3.6b,3.1s
ATH IV 22 01 20 24.5 38.37N 23.62E 22–0 3.9L,3.1s
ISK IV 22 01 20 25.1 38.52N 23.76E 5 3.6L,3.1s
DDA IV 22 01 20 32.8 38.70N 24.51E 15 3.8,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=14.7km az=165.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=69.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=16.0.
ISCJB Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=164.1.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=160.0.
ATH IV 22 22 46 31.9 38.40N 21.99E 11–1 1.0L
CSEM IV 22 22 46 31.9 38.40N 21.99E 11 1.0L **¶600916419**
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=104.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE IV 23 22 11 18.4 38.92N 22.44E 3–9 2.0L
CSEM IV 23 22 11 18.2–.10 38.93N 22.44E 5 2.0L **¶16881779**
ATH IV 23 22 11 18.2 38.93N 22.45E 13–3 2.0L
THE Event type ke. Error ellipse: s-maj=9.7km s-min=0.3km az=318.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=152.0.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=0.8km az=318.0.
THE IV 24 02 34 57.3 39.03N 21.87E 12–0 1.9L
CSEM IV 24 02 34 57.1–.09 39.03N 21.86E 10 1.9L **¶16881780**
ATH IV 24 02 34 57.4 39.02N 21.85E 13–2 1.9L
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=324.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=148.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.8km az=183.0.
ISC IV 24 03 29 09.5–.70 38.31N–.01 21.72E–.01 9–4 3.9b 449 0-77
IDC IV 24 03 29 09.0–1.3 38.45N 21.71E 0 3.8b,3.8 **¶16452991**
ISCJB IV 24 03 29 09.2–.23 38.32N–.01 21.70E–.01 7–1 3.7b,3.8
IASPE IV 24 03 29 09.4–.78 38.31N–.01 21.72E–.01 10–4 3.9b,3.8
CSEM IV 24 03 29 09.8–.10 38.31N 21.71E 5 3.3L,3.8

THE IV 24 03 29 09.7 38.31N 21.73E 1–0 3.4L,3.8
ATH IV 24 03 29 09.2 38.31N 21.75E 16–0 3.3L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=25.3km s-min=15.2km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=39.5.
IASPE Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=127.6. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=45.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=210.0.
ATH Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=195.0.
ISC IV 24 12 26 51.5–.84 40.06N–.01 21.67E–.01 13–6 220 0-22
CSEM IV 24 12 26 51.7–.10 40.06N 21.66E 2 2.7L **¶16505518**
THE IV 24 12 26 51.8 40.06N 21.66E 0–0 2.9L
ATH IV 24 12 26 51.3 40.07N 21.66E 18–1 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=94.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=290.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=321.0.
ISC IV 24 13 01 51.9–.78 38.02N–.02 21.56E–.02 17–4 110 0-1
CSEM IV 24 13 01 51.8–.09 38.02N 21.55E 15 2.0L **¶16881786**
ATH IV 24 13 01 51.8 38.02N 21.54E 20–1 2.0L
ISCJB IV 24 13 01 52.4–.36 38.02N–.02 21.56E–.02 13–2 2.0L
THE IV 24 13 01 52.0 38.02N 21.55E 17–0 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=169.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=284.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=11.0.
THE Event type ke. Error ellipse: s-maj=0.4km s-min=0.3km az=134.0.
ISC IV 25 08 42 11.7–.83 40.60N–.02 21.23E–.02 15–6 61 0-1
CSEM IV 25 08 42 11.8–.13 40.60N 21.23E 5 2.5L **¶16881801**
ATH IV 25 08 42 11.2 40.60N 21.22E 21–2 2.5L
SKO IV 25 08 42 11.5 40.64N 21.21E 22 2.2L
THE IV 25 08 42 12.0 40.59N 21.23E 1–1 2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=108.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=321.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.5km az=38.0.
ISC V 01 19 05 42.8–.82 38.84N–.01 21.62E–.01 9–5 3.5b 336 0-121
THE V 01 19 05 42.9 38.88N 21.64E 2–1 3.2L **¶16577943**
ATH V 01 19 05 42.1 38.83N 21.61E 14–1 3.1L
ISCJB V 01 19 05 42.3–.30 38.87N–.01 21.62E–.02 3–2 3.4b
CSEM V 01 19 05 42.8–.09 38.84N 21.63E 2 3.2L
BEO V 01 19 05 42.5–1.1 38.75N 21.65E 0 3.2
IDC V 01 19 05 46.8–2.6 38.84N 21.64E 40–23 3.4,3.4
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=205.0.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=165.0.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=71.0.
BEO Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=18.8km az=90.0.
ISC V 04 12 39 43.6–.72 38.27N–.01 22.44E–.01 13–4 3.8b 466 0-121
ATH V 04 12 39 43.2 38.29N 22.41E 14–1 3.8L **¶16553230**
CSEM V 04 12 39 43.4–.07 38.28N 22.44E 5 3.8L
THE V 04 12 39 43.5 38.28N 22.43E 6–0 4.0L
PDG V 04 12 39 43.4–.57 38.31N 22.47E 11–0 3.6L
NEIC V 04 12 39 43.5 38.28N 22.43E 6 4.0L
ISCJB V 04 12 39 43.3–.26 38.29N–.01 22.40E–.01 12–2 3.8b,3.1s
IDC V 04 12 39 45.3–3.6 38.35N 22.40E 21–22 3.9,3.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=22.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=202.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
NEIC Event type se. After THE.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=32.3.
IDC Error ellipse: s-maj=15.0km s-min=13.7km az=131.0.
ISC V 04 14 35 15.6–.69 38.36N–.01 21.78E–.01 11–4 3.7b 269 0-77
ATH V 04 14 35 15.6 38.33N 21.82E 17–0 3.4L **¶16577984**
IDC V 04 14 35 15.3–1.5 38.50N 21.78E 0 3.7,3.6L
IASPE V 04 14 35 15.6–.78 38.35N–.01 21.78E–.01 11–4 3.7b,3.6L
CSEM V 04 14 35 16.1–.11 38.34N 21.83E 5 3.4L,3.6L
ISCJB V 04 14 35 16.2–.24 38.34N–.01 21.82E–.02 9–1 3.5b,3.1s
THE V 04 14 35 16.4 38.35N 21.81E 6–0 3.6L,3.1s
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=248.0.
IDC Error ellipse: s-maj=28.5km s-min=20.7km az=21.0.
IASPE Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=140.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.4km az=22.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=7.4.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=245.0.
ATH V 04 22 41 38.2 39.36N 21.09E 10–6 1.6L
CSEM V 04 22 41 38.2 39.36N 21.09E 10 1.6L **¶600916729**
ATH Event type ke. Error ellipse: s-maj=6.7km s-min=0.8km az=248.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 05 08 56 18.9–.83 40.55N–.02 23.59E–.02 16–6 72 0-2
ISCJB V 05 08 56 18.9–.44 40.55N–.02 23.58E–.03 12–4 **¶16881960**
CSEM V 05 08 56 18.8–.09 40.55N 23.59E 15 2.2L
ATH V 05 08 56 19.0 40.55N 23.58E 13–3 2.2L
THE V 05 08 56 19.2 40.55N 23.58E 8–2 2.5L
SKO V 05 08 56 20.1 40.57N 23.61E 2 2.3L,1.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=61.0.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=0.7km az=223.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.4km az=268.0.
ATH V 06 23 58 37.6 38.55N 23.68E 15–5 1.2L
CSEM V 06 23 58 37.6 38.55N 23.68E 15 1.2L **¶600916778**
ATH Event type ke. Error ellipse: s-maj=5.5km s-min=0.7km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH V 07 01 32 28.6 38.67N 22.87E 8–3 1.6L
CSEM V 07 01 32 28.6 38.67N 22.87E 8 1.6L **¶600916784**
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=0.7km az=95.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 07 01 35 44.8–.54 40.36N–.01 21.33E–.01 19–1 4.0b,3.4s 797 0-94
ATH V 07 01 35 43.6 40.36N 21.32E 26–0 3.9L,3.4s **¶602920610**
THE V 07 01 35 44.9 40.37N 21.34E 14–1 4.0L,3.4s
ISCJB V 07 01 35 44.5–.22 40.382N–.01 21.30E–.01 25–2 4.0b,3.4s
PDG V 07 01 35 44.0–.53 40.37N 21.31E 19–0 4.2,4.1L
CSEM V 07 01 35 44.4–.06 40.37N 21.32E 12 4.1b,4.1L
TIR V 07 01 35 44.0 40.34N 21.36E 7 3.7L,4.1L
NEIC V 07 01 35 45.0 40.36N 21.35E 14 4.1b,4.0L
BEO V 07 01 35 45.3–.64 40.36N 21.38E 20–4 4.1,4.0L
MOS V 07 01 35 45.1–.95 40.38N 21.30E 33 4.2b,4.0L
IDC V 07 01 35 46.5–1.7 40.36N 21.30E 38–14 3.9,3.9
PRU V 07 01 35 48.0 40.68N 21.24E 0 4.1,3.9
SOF V 07 01 35 52.4 40.65N 22.02E 15 3.8,3.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=307.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=296.0.
ISCJB Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=142.8.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=54.0.
NEIC Event type se. After THE.
BEO Event type ke.
MOS Error ellipse: s-maj=5.4km s-min=3.7km az=90.0.
IDC Error ellipse: s-maj=16.0km s-min=10.6km az=20.0.
THE V 14 23 17 47.4 38.55N 21.90E 18–0 1.8L
ATH V 14 23 17 47.2 38.55N 21.89E 21–1 1.5L **¶16882163**
CSEM V 14 23 17 47.3–.11 38.54N 21.88E 12 1.8L
THE Event type ke. Error ellipse: s-maj=0.4km s-min=0.3km az=37.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=150.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=56.0.
ISC V 19 09 05 37.3–1.1 38.41N–.02 23.88E–.01 3–8 3.6b 238 0-74
ISCJB V 19 09 05 37.8–.43 38.45N–.01 23.88E–.02 5–3 3.9b **¶16710276**
IDC V 19 09 05 37.4–1.5 38.43N 23.73E 0 3.8,3.7
ATH V 19 09 05 38.0 38.43N 23.86E 24–0 3.8L,3.7
CSEM V 19 09 05 38.8–.13 38.44N 23.86E 10 3.8L,3.7
THE V 19 09 05 38.3 38.43N 23.85E 1–1 3.9L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=177.2.
IDC Error ellipse: s-maj=38.8km s-min=25.0km az=135.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=252.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=80.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=76.0.
ISC V 19 12 03 16.3–.82 38.21N–.02 20.55E–.03 15–5 247 0-12
ISCJB V 19 12 03 15.1–.50 38.20N–.02 20.44E–.03 12–3 **¶16553241**
ATH V 19 12 03 15.8 38.17N 20.55E 18–1 3.5L
THE V 19 12 03 15.9 38.17N 20.56E 0–3 3.8L
CSEM V 19 12 03 16.2–.18 38.19N 20.54E 10 3.5L
PDG V 19 12 03 16.5–.99 38.24N 20.61E 13–1 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.3km az=40.3.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=63.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=0.9km az=227.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.5km az=44.0.
PDG Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=90.0.
THE V 20 04 40 38.7 40.87N 22.94E 2–24 1.9L
SKO V 20 04 40 36.7 40.73N 22.93E 15 2.3L,1.8 **¶16882313**
ATH V 20 04 40 38.2 40.85N 22.91E 13–4 1.9L,1.8
CSEM V 20 04 40 38.2–.11 40.84N 22.91E 10 1.9L,1.8
THE Event type ke. Error ellipse: s-maj=24.3km s-min=0.4km az=0.0.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=0.9km az=224.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=49.0.
ISC V 20 23 36 22.1–1.0 38.44N–.01 23.84E–.02 7–9 278 0-6
ISCJB V 20 23 36 21.5–.44 38.44N–.01 23.90E–.02 8–3 **¶16854155**
ATH V 20 23 36 21.4 38.44N 23.88E 24–0 3.1L
CSEM V 20 23 36 21.8–.08 38.44N 23.88E 5 3.2L
THE V 20 23 36 22.1 38.43N 23.87E 3–0 3.2L
ISK V 20 23 36 22.5 38.54N 23.66E 5 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=174.6.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=248.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=86.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=256.0.
SKO V 21 10 22 52.1 40.73N 21.28E 19 1.8L,1.2
¶601109146
ATH V 21 21 35 47.8 38.80N 20.95E 20–4 1.4L
CSEM V 21 21 35 47.8 38.80N 20.95E 20 1.4L **¶600917171**
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.1km az=299.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 23 16 31.6–.72 39.41N–.03 22.29E–.03 106–5 3.7b 380 0-44
IDC V 21 23 16 28.1–2.0 39.41N 22.23E 57–24 3.6,3.5 **¶16553244**
SOF V 21 23 16 28.6 39.58N 22.97E 15 2.8,3.5
ISCJB V 21 23 16 30.7–.21 39.42N–.01 22.27E–.02 114–2 3.7b,3.5
ATH V 21 23 16 31.8 39.38N 22.34E 102–2 3.5L,3.5
PDG V 21 23 16 31.7–.67 39.40N 22.21E 95–2 4.3,4.2L
CSEM V 21 23 16 31.4–.12 39.40N 22.28E 112–1 3.5L,4.2L
THE V 21 23 16 32.6 39.38N 22.33E 98–1 3.6L,4.2L
ISC Event type ke.
IDC Error ellipse: s-maj=19.1km s-min=12.3km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=155.8.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=3.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.2km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=70.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=108.0.
ISC V 23 00 44 39.1–1.1 38.08N–.02 20.30E–.03 10–8 152 0-8
ATH V 23 00 44 38.7 38.08N 20.30E 12–1 2.7L **¶16882391**
THE V 23 00 44 39.7 38.09N 20.35E 2–1 2.9L
CSEM V 23 00 44 39.3–.23 38.08N 20.30E 2 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=66.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=43.0.
ISC V 24 09 40 07.9–.83 38.41N–.02 21.88E–.02 11–4 87 0-1
ISCJB V 24 09 40 08.0–.33 38.40N–.02 21.87E–.03 10–3 **¶16882424**
CSEM V 24 09 40 07.8–.09 38.40N 21.87E 8 2.7L
ATH V 24 09 40 07.9 38.41N 21.87E 11–1 2.5L
THE V 24 09 40 08.1 38.41N 21.88E 10–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=44.5.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.9km az=23.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=75.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=27.0.
THE V 24 23 23 52.8 40.55N 22.82E 13–0 1.9L
CSEM V 24 23 23 52.4–.10 40.54N 22.82E 12 1.7L **¶16882460**
ATH V 24 23 23 52.8 40.55N 22.82E 12–2 1.7L
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=321.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=151.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=68.0.
THE V 25 00 29 31.0 40.55N 22.81E 10–2 1.3L
CSEM V 25 00 29 30.6–.14 40.55N 22.83E 10 1.2L **¶16882464**
ATH V 25 00 29 30.7 40.55N 22.82E 11–3 1.2L
SKO V 25 00 29 31.5 40.54N 22.80E 2 1.2L
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.5km az=62.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=71.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=56.0.
ATH V 26 15 35 35.4 38.29N 22.17E 8–6 1.1L
CSEM V 26 15 35 35.4 38.29N 22.17E 8 1.1L **¶600917315**
ATH Event type ke. Error ellipse: s-maj=6.3km s-min=1.1km az=279.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH V 26 16 00 30.8 38.06N 21.97E 1–1 1.6L
CSEM V 26 16 00 30.8 38.06N 21.97E 1 1.6L **¶600917316**
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=38.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE V 27 14 18 33.0 38.00N 21.10E 15–1 2.0L
ATH V 27 14 18 33.0 37.98N 21.10E 12–3 1.9L **¶16882539**
CSEM V 27 14 18 32.6–.15 38.00N 21.09E 12 1.9L
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=298.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.1km az=200.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=155.0.
ISC V 29 10 36 13.9–.95 40.39N–.01 22.26E–.01 9–8 160 0-3
SOF V 29 10 36 11.9 40.25N 22.22E 9 2.8 **¶601109181**
CSEM V 29 10 36 13.9–.13 40.39N 22.28E 2 2.7L
ISCJB V 29 10 36 13.6–.35 40.40N–.02 22.28E–.02 1–3 2.7L
ATH V 29 10 36 13.2 40.38N 22.24E 22–2 2.6L
THE V 29 10 36 14.2 40.38N 22.30E 0–2 2.7L
SKO V 29 10 36 14.2 40.36N 22.26E 12 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=149.5.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=230.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=352.0.
ISC V 29 22 23 20.2–.94 38.18N–.01 23.95E–.01 6–7 363 0-9
ISCJB V 29 22 23 19.7–.41 38.18N–.01 23.96E–.01 5–3 **¶16855722**
ATH V 29 22 23 19.5 38.16N 23.95E 18–0 3.2L
ISK V 29 22 23 20.6 38.24N 23.97E 12 3.1L

THE V 29 22 23 20.4 38.18N 23.92E 1–1 3.5L
CSEM V 29 22 23 20.1–.07 38.18N 23.94E 2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=176.7.
ATH Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=246.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=7.0.
ATH V 30 00 24 10.7 38.12N 23.89E 9–3 1.2L
CSEM V 30 00 24 10.7 38.12N 23.89E 9 1.2L **¶600917432**
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.9km az=126.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE V 30 15 56 05.6 38.09N 22.05E 46–1 1.6L
ATH V 30 15 56 04.5 38.08N 22.08E 51–2 1.4L **¶16882636**
CSEM V 30 15 56 05.4–.24 38.08N 22.04E 43–2 1.4L
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=277.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.3km az=226.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=26.0.
ISC VI 01 02 10 07.1–1.1 38.15N–.03 22.03E–.02 60–4 331 0-10
ISCJB VI 01 02 10 06.2–.25 38.17N–.02 22.03E–.02 73–2 **¶603247065**
PDG VI 01 02 10 07.2–1.0 38.16N 21.98E 56–5 3.5L
CSEM VI 01 02 10 07.5–.09 38.15N 22.04E 60 3.4L
ATH VI 01 02 10 07.1 38.13N 22.08E 56–1 3.3L
THE VI 01 02 10 08.2 38.11N 22.08E 52–1 3.4L
TIR VI 01 02 10 09.1 41.63N 19.89E 6 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=137.0.
PDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.7km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=52.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=260.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=275.0.
ISC VI 02 12 10 51.5–.83 40.67N–.02 21.45E–.03 10–6 66 0-4
SKO VI 02 12 10 50.7 40.65N 21.42E 15 2.7L,2.0 **¶16882728**
ISCJB VI 02 12 10 51.7–.38 40.69N–.02 21.45E–.03 4–4 2.7L,2.0
ATH VI 02 12 10 51.8 40.68N 21.45E 13–3 2.7L,2.0
THE VI 02 12 10 51.7 40.69N 21.44E 12–0 2.8L,2.0
CSEM VI 02 12 10 52.2–.20 40.67N 21.46E 10 2.8L,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=3.2.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.4km az=330.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=298.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.7km az=95.0.
ISC VI 02 12 47 57.8–.77 40.69N–.02 21.42E–.02 15–4 53 0-3
ISCJB VI 02 12 47 58.0–.42 40.70N–.02 21.41E–.04 10–4 **¶16882730**
ATH VI 02 12 47 57.3 40.71N 21.46E 18–5 2.5L
SKO VI 02 12 47 57.4 40.69N 21.41E 19 2.3L,2.0
CSEM VI 02 12 47 58.1–.16 40.68N 21.43E 2 2.5L,2.0
THE VI 02 12 47 58.3 40.68N 21.44E 8–1 2.4L,2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=15.5.
ATH Event type ke. Error ellipse: s-maj=5.6km s-min=1.4km az=349.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=98.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=316.0.
THE VI 02 16 48 33.1 38.14N 23.89E 8–1 1.9L
CSEM VI 02 16 48 31.8–.18 38.14N 23.96E 12 1.9L **¶16882737**
ATH VI 02 16 48 32.5 38.15N 23.91E 11–2 1.7L
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.3km az=124.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=97.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=223.0.
THE VI 03 00 05 57.9 38.20N 22.78E 7–2 1.7L
ATH VI 03 00 05 57.5 38.19N 22.78E 11–3 1.4L **¶16882742**
CSEM VI 03 00 05 57.5–.12 38.18N 22.78E 5 1.4L
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.3km az=200.0.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=0.7km az=110.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=165.0.
ISC VI 04 01 44 42.9–.99 38.22N–.02 20.27E–.03 13–7 193 0-8
ATH VI 04 01 44 42.3 38.20N 20.24E 12–0 2.5L **¶16882786**
CSEM VI 04 01 44 43.0–.22 38.22N 20.29E 2 2.8L
THE VI 04 01 44 44.3 38.26N 20.36E 9–0 2.8L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.8km az=38.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=76.0.
ATH VI 05 06 22 45.7 38.40N 21.81E 11–3 1.3L
CSEM VI 05 06 22 45.7 38.40N 21.81E 11 1.3L **¶602546658**
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 06 03 35 01.3–.79 38.12N–.02 20.56E–.02 18–4 3.5b 208 0-45
NEIC VI 06 03 35 00.7 38.12N 20.57E 21 3.3L,3.2L **¶16702421**
ATH VI 06 03 35 00.7 38.12N 20.57E 22–1 3.2L,3.2L
ISCJB VI 06 03 35 00.0–.47 38.10N–.02 20.46E–.02 12–3 3.3b,2.8s
CSEM VI 06 03 35 01.1–.17 38.12N 20.56E 10 3.2L,2.8s
IDC VI 06 03 35 01.6–1.3 38.31N 21.03E 0 3.4,3.4b
THE VI 06 03 35 02.0 38.12N 20.63E 3–1 3.3L,3.4b
ISC Event type fe.
NEIC Event type fe. Felt at Argostolion. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=57.0.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=2.6km az=25.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=31.0.
IDC Error ellipse: s-maj=31.6km s-min=22.4km az=87.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=62.0.
ISC VI 06 11 06 02.2–.73 38.44N–.01 21.82E–.01 11–4 3.8b 172 0-45
CSEM VI 06 11 06 01.8–.10 38.44N 21.83E 10 3.2L **¶16856487**
IDC VI 06 11 06 01.2–1.7 38.62N 21.79E 0 3.9b,3.7
IASPE VI 06 11 06 02.0–.77 38.44N–.01 21.82E–.01 12–4 3.8b,3.7
ATH VI 06 11 06 02.0 38.44N 21.82E 14–1 3.3L,3.7
ISCJB VI 06 11 06 02.0–.27 38.45N–.02 21.81E–.02 9–2 3.9b,3.7
THE VI 06 11 06 02.0 38.44N 21.82E 10–0 3.4L,3.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=132.0.
IDC Error ellipse: s-maj=98.9km s-min=25.3km az=142.0.
IASPE Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=133.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=170.6.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=307.0.
ISC VI 06 13 21 05.0–.73 38.11N–.01 21.56E–.01 18–3 3.6b 178 0-45
IDC VI 06 13 21 01.1–1.6 38.17N 21.32E 0 3.7b,3.5 **¶16856494**
ATH VI 06 13 21 04.8 38.11N 21.55E 24–0 3.3L,3.5
ISCJB VI 06 13 21 05.5–.25 38.11N–.02 21.55E–.02 22–2 3.6b,3.5
IASPE VI 06 13 21 05.1–.78 38.11N–.02 21.56E–.01 18–5 3.6b,3.5
THE VI 06 13 21 05.5 38.11N 21.56E 14–0 3.3L,3.5
CSEM VI 06 13 21 05.1–.07 38.11N 21.55E 15 3.3L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=36.4km s-min=25.0km az=132.0.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=224.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=150.8.
IASPE Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=177.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
THE Event type ke. Error ellipse: s-maj=0.5km s-min=0.3km az=279.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=163.0.
ATH VI 10 13 49 14.6 38.62N 23.72E 14–10 1.5L
CSEM VI 10 13 49 14.6 38.62N 23.72E 14 1.5L **¶602546803**
ATH Event type ke. Error ellipse: s-maj=10.3km s-min=1.5km az=118.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 12 09 11 24.0–.92 40.60N–.01 22.49E–.01 12–6 3.5b 527 0-75
BEO VI 12 09 11 19.0–.92 40.38N 22.80E 11–4 3.7 **¶16593415**
PRU VI 12 09 11 21.3 40.57N 23.53E 0 3.7
IDC VI 12 09 11 22.0–.88 40.42N 22.62E 0 3.7,3.6L
SKO VI 12 09 11 23.6 40.63N 22.45E 20 3.6L,2.8
CSEM VI 12 09 11 24.4–.08 40.63N 22.46E 10 3.7L,2.8
ATH VI 12 09 11 24.3 40.60N 22.51E 28–0 3.6L,2.8
ISK VI 12 09 11 24.6 40.73N 22.48E 26 3.7L,2.8
THE VI 12 09 11 24.8 40.61N 22.46E 16–0 3.8L,2.8
SOF VI 12 09 11 24.4 40.63N 22.48E 16 3.9,2.8
PDG VI 12 09 11 25.0–.64 40.71N 22.51E 20–1 3.5L,2.8
DDA VI 12 09 11 38.1 40.52N 24.04E 13 3.6L,2.8
ISC Event type ke.
BEO Event type ke.
IDC Error ellipse: s-maj=14.0km s-min=13.5km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=44.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=347.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=353.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.7km az=0.0.
ATH VI 15 01 00 11.3 40.64N 22.44E 17–6 1.1L
CSEM VI 15 01 00 11.3 40.64N 22.44E 17 1.1L **¶603147219**
ATH Event type ke. Error ellipse: s-maj=6.1km s-min=0.7km az=358.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 16 11 33 24.3–.94 40.57N–.01 21.70E–.01 9–8 159 0-4
ATH VI 16 11 33 23.6 40.57N 21.71E 22–1 2.8L **¶16883083**
BEO VI 16 11 33 23.8–1.7 40.63N 21.64E 0 2.3
ISCJB VI 16 11 33 23.9–.40 40.59N–.02 21.68E–.02 9–3 2.3
CSEM VI 16 11 33 24.1–.10 40.58N 21.69E 10 3.0L
SKO VI 16 11 33 24.8 40.51N 21.62E 2 2.8L,2.1
THE VI 16 11 33 24.5 40.55N 21.68E 2–0 3.0L,2.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=331.0.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=27.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=101.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=353.0.
ATH VI 16 11 51 25.6 38.77N 20.55E 10–2 1.4L
CSEM VI 16 11 51 25.5 38.77N 20.55E 10 1.4L **¶602546969**
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.3km az=103.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH VI 17 01 13 24.4 38.38N 22.02E 10–2 1.2L
CSEM VI 17 01 13 24.4 38.38N 22.02E 10 1.2L **¶602546985**
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=110.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 17 01 26 27.6–.83 38.28N–.02 20.73E–.02 11–6 135 0-2
ATH VI 17 01 26 27.6 38.28N 20.73E 14–1 2.5L **¶16883117**
CSEM VI 17 01 26 28.3–.23 38.29N 20.78E 2 2.5L
THE VI 17 01 26 28.0 38.28N 20.75E 0–1 2.8L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=206.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=65.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=179.0.
ATH VI 17 10 48 52.9 38.91N 21.47E 16–6 1.6L
CSEM VI 17 10 48 52.4–.43 38.94N 21.46E 15 1.8L **¶16883135**
THE VI 17 10 48 54.2 38.84N 21.55E 1–1 1.8L
ATH Event type ke. Error ellipse: s-maj=6.2km s-min=1.2km az=89.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.9km az=166.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.3km az=321.0.
ATH VI 17 19 29 25.7 38.35N 21.67E 24–3 0.9L
CSEM VI 17 19 29 25.7 38.35N 21.67E 24 0.9L **¶602547007**
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=0.9km az=52.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 19 05 00 23.3–1.7 38.06N–.03 20.27E–.06 2–10 62 0-2
CSEM VI 19 05 00 22.7–.58 38.06N 20.21E 2 2.5L **¶16883217**
ATH VI 19 05 00 23.6 38.10N 20.29E 8–2 2.5L
THE VI 19 05 00 23.9 38.07N 20.26E 2–3 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=6.5km az=56.0.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.8km az=65.0.
THE Event type ke. Error ellipse: s-maj=4.1km s-min=1.5km az=78.0.
ATH VI 20 10 25 35.2 38.64N 22.43E 15–5 1.9L
CSEM VI 20 10 25 35.2 38.64N 22.43E 15 1.9L **¶602547076**
ATH Event type ke. Error ellipse: s-maj=5.9km s-min=0.8km az=186.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 20 18 20 30.2–.69 38.06N–.01 21.97E–.01 17–4 4.1b 491 0-121
IDC VI 20 18 20 28.3–.59 38.14N 22.01E 0 4.0,4.0b **¶16646045**
ATH VI 20 18 20 29.8 38.05N 21.99E 26–0 4.1L,4.0b
ISCJB VI 20 18 20 30.6–.19 38.08N–.01 21.95E–.01 28–1 4.0b,4.0b
NEIC VI 20 18 20 30.5 38.05N 21.99E 17 4.2L,4.0b
CSEM VI 20 18 20 30.4–.10 38.05N 21.97E 12 4.1L,4.0b
THE VI 20 18 20 30.5 38.05N 21.99E 17–0 4.2L,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=12.6km s-min=11.9km az=131.0.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=298.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=29.3.
NEIC Event type se. After THE.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=35.0.
THE Event type ke. Error ellipse: s-maj=0.4km s-min=0.3km az=349.0.
ISC VI 22 04 15 59.7–.84 40.51N–.01 21.61E–.02 16–6 3.7b 432 0-71
TIR VI 22 04 15 53.5–5.5 40.55N 21.65E 17–54 3.6L **¶603247077**
SKO VI 22 04 15 58.1 40.37N 21.56E 20 3.8L,3.4
ATH VI 22 04 15 59.3 40.56N 21.63E 24–0 3.7L,3.4
PDG VI 22 04 15 59.3–.42 40.56N 21.65E 13–0 3.5L,3.4
ISCJB VI 22 04 15 59.9–.27 40.57N–.01 21.63E–.02 21–3 3.6b,3.4
THE VI 22 04 16 00.2 40.52N 21.60E 6–1 3.8L,3.4
CSEM VI 22 04 16 00.0–.06 40.54N 21.64E 10 3.8L,3.4
IDC VI 22 04 16 02.4–1.9 40.51N 21.54E 41–23 3.6,3.6
ISC Event type ke.
TIR Error ellipse: s-maj=144.0km s-min=115.8km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=321.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=142.8.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=338.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=52.0.
IDC Error ellipse: s-maj=19.3km s-min=12.2km az=81.0.
ISC VI 22 04 18 56.2–1.1 40.54N–.02 21.62E–.02 13–9 80 0-6
ISCJB VI 22 04 18 56.8–.38 40.57N–.03 21.57E–.04 23–4 **¶602547141**
ATH VI 22 04 18 56.1 40.54N 21.62E 24–1 2.9L
CSEM VI 22 04 18 57.1–.24 40.56N 21.59E 20 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=28.8.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=311.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=135.0.
ISC VI 22 05 00 06.0–.84 40.52N–.01 21.63E–.01 14–6 3.4b 287 0-43
TIR VI 22 04 59 59.9–5.6 40.65N 21.66E 17–56 3.1L **¶603247076**
ISCJB VI 22 05 00 05.7–.35 40.55N–.01 21.62E–.02 8–2 3.3b,3.2s
ATH VI 22 05 00 05.4 40.53N 21.62E 25–0 3.2L,3.2s
PDG VI 22 05 00 06.1–.48 40.57N 21.64E 15–0 3.2L,3.2s
THE VI 22 05 00 06.5 40.54N 21.61E 5–1 3.4L,3.2s
SKO VI 22 05 00 06.9 40.53N 21.58E 7 3.3L,3.0
CSEM VI 22 05 00 06.2–.08 40.53N 21.63E 8 3.2L,3.0
IDC VI 22 05 00 12.2–2.2 40.60N 21.49E 78–27 3.2,3.1
ISC Event type ke.
TIR Error ellipse: s-maj=147.9km s-min=118.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=142.7.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=319.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.8km az=0.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.3km az=272.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=61.0.
IDC Error ellipse: s-maj=25.5km s-min=20.5km az=101.0.
ISC VI 22 05 26 46.5–.86 40.53N–.02 21.61E–.02 15–7 68 0-6
ATH VI 22 05 26 45.8 40.54N 21.61E 24–1 2.5L **¶16880954**
ISCJB VI 22 05 26 46.8–.39 40.54N–.03 21.57E–.03 18–7 2.5L
CSEM VI 22 05 26 46.6–.10 40.53N 21.61E 10 2.6L

THE	VI	22 05 26 46.8	40.52N	21.59E	15–1	2.6L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=207.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=151.1.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=144.0.							
THE	Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=261.0.							
ISC	**VI**	**22 11 50 05.8–.83**	**40.53N–.02**	**21.62E–.02**	**15–6**		**113**	**0-6**
SKO	VI	22 11 50 03.7	40.35N	21.57E	3	2.8L,2.5		¶16880959
ATH	VI	22 11 50 05.0	40.54N	21.62E	25–0	2.5L,2.5		
CSEM	VI	22 11 50 05.7–.12	40.54N	21.63E	10	2.5L,2.5		
ISCJB	VI	22 11 50 06.1–.32	40.55N–.02	21.59E–.03	18–4	2.5L,2.5		
THE	VI	22 11 50 06.0	40.54N	21.60E	12–1	2.8L,2.5		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=321.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=71.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=43.4.							
THE	Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=254.0.							
THE	**VI**	**22 14 28 32.2**	**40.54N**	**21.61E**	**13–3**	**1.8L**		
ATH	VI	22 14 28 31.4	40.53N	21.60E	23–3	1.8L		¶16880963
CSEM	VI	22 14 28 31.6–.20	40.55N	21.60E	15	1.8L		
THE	Event type ke. Error ellipse: s-maj=3.2km s-min=0.5km az=343.0.							
ATH	Event type ke. Error ellipse: s-maj=3.2km s-min=1.1km az=304.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=177.0.							
ISC	**VI**	**22 20 15 44.6–.87**	**40.54N–.02**	**21.61E–.02**	**15–7**		**128**	**0-6**
SKO	VI	22 20 15 43.8	40.42N	21.61E	0	2.8L,2.5		¶16880972
ISCJB	VI	22 20 15 44.4–.38	40.56N–.02	21.60E–.03	12–3	2.8L,2.5		
THE	VI	22 20 15 44.9	40.53N	21.61E	12–0	2.9L,2.5		
ATH	VI	22 20 15 44.2	40.55N	21.64E	24–0	2.6L,2.5		
CSEM	VI	22 20 15 44.5–.13	40.55N	21.64E	10	2.9L,2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=20.3.							
THE	Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=243.0.							
ATH	Event type ke. Error ellipse: s-maj=1.4km s-min=1.0km az=312.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=98.0.							
ATH	**VI**	**24 16 21 21.9**	**38.64N**	**23.55E**	**31–4**	**2.0L**		
CSEM	VI	24 16 21 22.0	38.64N	23.55E	31	2.0L		¶602547205
ATH	Event type ke. Error ellipse: s-maj=4.2km s-min=0.9km az=340.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**VI**	**26 20 36 51.4–1.0**	**38.19N–.02**	**22.09E–.02**	**46–4**		**230**	**0-24**
ATH	VI	26 20 36 50.8	38.17N	22.10E	53–1	3.3L		¶16721007
CSEM	VI	26 20 36 51.6–.11	38.19N	22.08E	49–1	3.3L		
THE	VI	26 20 36 52.2	38.18N	22.10E	47–1	3.4L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=305.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=25.0.							
THE	Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=259.0.							
ISC	**VI**	**27 01 21 38.9–.89**	**38.86N–.01**	**23.67E–.02**	**15–7**		**171**	**0-2**
ISCJB	VI	27 01 21 38.3–.56	38.89N–.02	23.71E–.03	7–3			¶603210718
ATH	VI	27 01 21 38.1	38.88N	23.68E	25–0	2.1L		
CSEM	VI	27 01 21 38.6–.14	38.88N	23.69E	10	2.2L		
THE	VI	27 01 21 38.8	38.88N	23.68E	7–0	2.3L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=162.5.							
ATH	Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=69.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=74.0.							
THE	Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=81.0.							
ISC	**VI**	**27 17 15 17.8–.85**	**40.53N–.02**	**21.63E–.02**	**14–6**		**135**	**0-4**
ISCJB	VI	27 17 15 17.4–.38	40.54N–.02	21.62E–.03	9–3			¶16881080
ATH	VI	27 17 15 17.0	40.55N	21.62E	24–0	2.5L		
CSEM	VI	27 17 15 17.5–.12	40.53N	21.63E	8	2.7L		
THE	VI	27 17 15 17.9	40.52N	21.59E	14–0	2.7L		
SKO	VI	27 17 15 18.8	40.54N	21.58E	6	2.5L,2.2		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=40.3.							
ATH	Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=336.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=113.0.							
THE	Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=273.0.							
ATH	**VI**	**28 01 35 00.2**	**38.76N**	**23.30E**	**11–3**	**1.3L**		
CSEM	VI	28 01 34 59.8–.20	38.76N	23.32E	10	1.3L		¶602547312
ATH	Event type ke. Error ellipse: s-maj=3.8km s-min=0.7km az=327.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=134.0.							
ATH	**VI**	**28 07 52 44.8**	**38.95N**	**21.72E**	**17–2**	**1.6L**		
CSEM	VI	28 07 52 44.8	38.95N	21.72E	17	1.6L		¶602547321
ATH	Event type ke. Error ellipse: s-maj=2.9km s-min=1.0km az=105.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
THE	**VI**	**30 03 11 23.3**	**38.29N**	**21.78E**	**6–1**	**1.6L**		
CSEM	VI	30 03 11 22.6–.08	38.30N	21.79E	10	1.3L		¶602547384
ATH	VI	30 03 11 23.0	38.29N	21.78E	8–1	1.3L		
THE	Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=124.0.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=17.0.							
ATH	Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=93.0.							

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ISC	**I**	**01 03 56 16.9–.90**	**38.17N–.02**	**25.78E–.02**	**17–7**		**108**	**0-4**
DDA	I	01 03 56 15.1	38.17N	25.72E	32	3.0		¶16357741
ATH	I	01 03 56 16.3	38.19N	25.79E	24–1	3.3		
ISCJB	I	01 03 56 16.3–.66	38.16N–.02	25.76E–.02	6–4	3.3		
CSEM	I	01 03 56 16.6–.21	38.13N	25.75E	10	3.3		
THE	I	01 03 56 16.7	38.16N	25.77E	2–3	2.6L		
ISK	I	01 03 56 18.2	37.81N	26.01E	2	3.4		
ISC	Event type ke.							
DDA	Event type ke.							
ATH	Error ellipse: s-maj=0.7km s-min=0.9km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=143.6.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=149.0.							
THE	Event type ke. Error ellipse: s-maj=3.0km s-min=0.9km az=136.0.							
ISC	**I**	**02 22 31 13.5–.93**	**38.88N–.01**	**25.97E–.02**	**11–8**		**246**	**0-8**
ISK	I	02 22 31 11.9	38.84N	25.93E	10	3.4L		¶16357779
ATH	I	02 22 31 12.3	38.87N	26.04E	23–0	3.2,3.1L		
ISCJB	I	02 22 31 12.9–.46	38.89N–.01	25.94E–.02	9–3	3.2,3.1L		
THE	I	02 22 31 13.7	38.89N	25.97E	9–1	3.2L,3.1L		
CSEM	I	02 22 31 13.5–.10	38.87N	25.95E	10	3.2L,3.1L		
DDA	I	02 22 31 13.4	38.91N	26.00E	38	3.6L,3.1L		
ISC	Event type ke.							
ATH	Error ellipse: s-maj=0.5km s-min=0.7km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=176.7.							
THE	Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=89.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=151.0.							
DDA	Event type ke.							
ISC	**I**	**02 22 32 25.6–1.2**	**38.90N–.02**	**25.94E–.04**	**3–11**		**44**	**0-2**
ISK	I	02 22 32 24.3	38.87N	25.95E	5	2.6		¶16357780
CSEM	I	02 22 32 25.9–.30	38.89N	25.95E	2	2.6		
DDA	I	02 22 32 25.8	38.92N	25.98E	6	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=7.3km s-min=3.8km az=76.0.							
DDA	Event type ke.							
ISC	**I**	**03 02 40 23.4–1.1**	**38.87N–.04**	**25.98E–.06**	**12**		**24**	**0-2**
ISK	I	03 02 40 22.9	38.87N	25.97E	5	2.6		¶16357782
ISCJB	I	03 02 40 24.7–.88	38.91N–.04	25.98E–.08	12	2.6		
CSEM	I	03 02 40 24.4–.41	38.90N	25.99E	2	2.6		
DDA	I	03 02 40 28.2	38.82N	26.53E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.3km s-min=4.5km az=161.7.							
CSEM	Event type ke. Error ellipse: s-maj=9.4km s-min=4.8km az=63.0.							
DDA	Event type ke.							
ISC	**I**	**04 16 42 56.1–1.2**	**38.83N–.03**	**26.32E–.04**	**10–11**		**49**	**1-2**
DDA	I	04 16 42 55.6	38.84N	26.28E	7	2.8		¶16357814
ISCJB	I	04 16 42 56.2–.59	38.83N–.03	26.30E–.05	10–5	2.8		
ISK	I	04 16 42 56.2	38.83N	26.33E	14	2.8		
CSEM	I	04 16 42 56.6–.22	38.83N	26.32E	12	2.8		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.6km s-min=3.8km az=159.2.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=58.0.							
ISC	**I**	**04 17 43 25.3–.92**	**38.73N–.02**	**26.49E–.02**	**12–8**		**139**	**0-9**
DDA	I	04 17 43 24.6	38.73N	26.45E	7	3.0		¶16357815
ISK	I	04 17 43 24.9	38.75N	26.50E	14	3.0		
ISCJB	I	04 17 43 24.6–.47	38.75N–.02	26.44E–.03	11–4	3.0		
ATH	I	04 17 43 24.6	38.72N	26.45E	27–1	3.2		
CSEM	I	04 17 43 25.3–.11	38.71N	26.48E	12	3.0		
THE	I	04 17 43 25.1	38.72N	26.51E	6–2	3.6L		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=159.5.							
ATH	Error ellipse: s-maj=0.7km s-min=1.6km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=63.0.							
THE	Event type ke. Error ellipse: s-maj=2.5km s-min=0.6km az=262.0.							
ATH	**I**	**04 22 41 09.0**	**40.86N**	**24.23E**	**14–4**	**3.1**		
CSEM	I	04 22 41 09.0	40.86N	24.23E	14	3.1		¶600871310
ATH	Error ellipse: s-maj=1.2km s-min=0.7km az=-1.0.							
CSEM	Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**I**	**05 03 00 25.4–.00**	**38.17N–.02**	**25.81E–.02**	**19–2**		**86**	**0-3**
ATH	I	05 03 00 24.6	38.18N	25.82E	29–1	3.0		¶16357821
ISCJB	I	05 03 00 25.6–.44	38.19N–.02	25.78E–.03	18–5	3.0		
ISK	I	05 03 00 25.4	38.23N	25.79E	19	2.9		
CSEM	I	05 03 00 25.1–.12	38.16N	25.80E	15	3.0		
THE	I	05 03 00 27.1	38.19N	25.84E	27–3	2.6L		
DDA	I	05 03 00 29.9	38.13N	26.02E	4	2.8		
ISC	Event type ke.							
ATH	Error ellipse: s-maj=0.9km s-min=1.3km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=138.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=124.0.							
THE	Event type ke. Error ellipse: s-maj=3.2km s-min=0.6km az=338.0.							
DDA	Event type ke.							
ISC	**I**	**05 23 10 48.6–1.1**	**38.18N–.03**	**25.75E–.04**	**16–9**		**32**	**0-2**
ISCJB	I	05 23 10 48.9–1.1	38.19N–.03	25.76E–.08	20–7			¶600871350
CSEM	I	05 23 10 48.7–.41	38.18N	25.76E	17–2	3.1		
DDA	I	05 23 10 49.0	38.23N	25.81E	9	2.7		
ATH	I	05 23 10 48.1	38.19N	25.77E	21–7	3.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.1km s-min=5.8km az=179.0.							
CSEM	Event type ke. Error ellipse: s-maj=8.3km s-min=4.5km az=96.0.							
DDA	Event type ke.							
ATH	Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.							
ISC	**I**	**07 00 23 32.6–.87**	**40.21N–.02**	**25.46E–.02**	**13–7**		**88**	**0-2**
CSEM	I	07 00 23 32.2–.14	40.21N	25.45E	5	2.1L		¶16357868
ISCJB	I	07 00 23 32.0–.47	40.20N–.02	25.45E–.03	6–4	2.1L		
ATH	I	07 00 23 32.5	40.19N	25.43E	6–5	2.8		
ISK	I	07 00 23 32.1	40.17N	25.48E	5	2.9		
THE	I	07 00 23 32.5	40.20N	25.45E	12–1	2.1L		
DDA	I	07 00 23 34.9	40.22N	25.72E	7	2.9		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=29.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.4km s-min=3.3km az=36.2.							
ATH	Error ellipse: s-maj=0.4km s-min=0.6km az=-1.0.							
THE	Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=46.0.							
DDA	Event type ke.							
ISC	**I**	**07 18 26 50.6–.95**	**40.38N–.01**	**25.79E–.01**	**14–8**		**357**	**0-8**
BEO	I	07 18 26 37.9–.74	39.68N	26.79E		3.9		¶16357881
DDA	I	07 18 26 51.0	40.33N	25.90E	26	3.6L		
ATH	I	07 18 26 50.3	40.37N	25.81E	26–0	3.5,3.1L		
ISCJB	I	07 18 26 50.4–.42	40.38N–.01	25.79E–.02	14–3	3.5,3.1L		
CSEM	I	07 18 26 50.8–.06	40.36N	25.80E	10	3.3L,3.1L		
ISK	I	07 18 26 50.3	40.39N	25.83E	9	3.4L,3.1L		
SOF	I	07 18 26 50.5	40.33N	25.82E	12	3.4L,3.1L		
THE	I	07 18 26 51.5	40.37N	25.80E	17–1	3.3L,3.1L		
ISC	Event type ke.							
BEO	Event type ke.							
DDA	Event type ke.							
ATH	Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=2.0km s-min=2.0km az=20.6.							
CSEM	Event type ke. Error ellipse: s-maj=1.5km s-min=1.4km az=172.0.							
THE	Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=41.0.							
ISC	**I**	**07 19 34 05.1–1.7**	**40.32N–.05**	**25.84E–.07**	**15–11**		**26**	**0-2**
CSEM	I	07 19 34 04.3–.41	40.32N	25.77E	2	2.7		¶16357882
ISK	I	07 19 34 04.9	40.32N	25.85E	7	2.7		
DDA	I	07 19 34 11.9	40.40N	26.33E	22	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.1km s-min=5.4km az=125.0.							
DDA	Event type ke.							
ISC	**I**	**07 21 44 47.5–.83**	**40.41N–.02**	**25.73E–.01**	**16–6**		**189**	**0-6**
ISK	I	07 21 44 45.8	40.43N	25.71E	3	3.0		¶16357884
ISCJB	I	07 21 44 46.9–.40	40.40N–.02	25.73E–.02	8–3	3.0		
ATH	I	07 21 44 46.8	40.40N	25.73E	25–1	3.0		
SOF	I	07 21 44 47.9	40.41N	25.73E	13	3.0		
CSEM	I	07 21 44 47.1–.10	40.38N	25.73E	5	3.0		
THE	I	07 21 44 47.1	40.37N	25.78E	4–1	2.7L		
DDA	I	07 21 44 50.4	40.40N	25.96E	27	3.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=22.2.							
ATH	Error ellipse: s-maj=0.6km s-min=1.0km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=21.0.							
THE	Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=86.0.							
DDA	Event type ke.							
ISC	**I**	**07 22 08 35.4–.80**	**40.43N–.02**	**25.75E–.02**	**16–5**		**150**	**0-6**
ATH	I	07 22 08 34.9	40.41N	25.72E	23–1	3.1		¶16357885
ISK	I	07 22 08 34.7	40.42N	25.81E	2	3.0		
ISCJB	I	07 22 08 35.7–.31	40.43N–.02	25.73E–.02	16–4	3.0		
THE	I	07 22 08 35.5	40.39N	25.76E	10–1	2.4L		
CSEM	I	07 22 08 35.2–.12	40.41N	25.73E	8	3.1		
DDA	I	07 22 08 36.5	40.36N	25.93E	9	3.0		
SOF	I	07 22 08 36.6	40.44N	25.62E	10	3.0		
ISC	Event type ke.							
ATH	Error ellipse: s-maj=0.6km s-min=1.0km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=10.2.							
THE	Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=1.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=179.0.							
DDA	Event type ke.							
ISC	**I**	**07 22 17 30.9–.87**	**40.39N–.02**	**25.77E–.02**	**13–8**		**66**	**0-3**
ISCJB	I	07 22 17 30.7–.43	40.39N–.02	25.77E–.03	8–4			¶16357888
CSEM	I	07 22 17 30.7–.10	40.38N	25.76E	10	2.1L		
ISK	I	07 22 17 30.5	40.38N	25.80E	11	2.9		
THE	I	07 22 17 31.0	40.38N	25.74E	13–1	2.1L		
DDA	I	07 22 17 32.2	40.37N	25.92E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=136.7.							
CSEM	Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=138.0.							
THE	Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=302.0.							
DDA	Event type ke.							
ISC	**I**	**07 22 20 05.2–.84**	**40.41N–.02**	**25.74E–.02**	**13–6**		**139**	**0-6**
ISK	I	07 22 20 03.6	40.44N	25.76E	5	3.1		¶16357889
ISCJB	I	07 22 20 04.6–.38	40.41N–.02	25.73E–.02	8–3	3.1		
CSEM	I	07 22 20 04.7–.11	40.41N	25.73E	5	2.7L		
THE	I	07 22 20 05.2	40.39N	25.74E	11–0	2.7L		
SOF	I	07 22 20 06.5	40.43N	25.59E	10	2.7L		
DDA	I	07 22 20 07.2	40.34N	26.01E	4	3.3		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=21.2.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=14.0.							
THE	Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=56.0.							
DDA	Event type ke.							
ISC	**I**	**08 07 27 13.7–3.7**	**39.1N–.10**	**25.7E–.20**	**12–8**		**18**	**0-2**

DDA I 08 07 26 54.9 38.62N 25.14E 6 2.7 ¶16357898
ISK I 08 07 27 14.2 39.08N 25.76E 9 2.6
CSEM I 08 07 27 15.1–1.3 39.09N 25.77E 8 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=26.6km s-min=14.1km az=63.0.
ISC I 08 17 38 09.1–1.1 38.08N–.03 26.80E–.03 6–11 36 0-2
DDA I 08 17 38 08.9 38.10N 26.76E 7 2.8 ¶16357915
ISCJB I 08 17 38 09.1–.77 38.10N–.04 26.80E–.04 3–8 2.8
CSEM I 08 17 38 09.6–.37 38.10N 26.80E 8 2.8
ISK I 08 17 38 09.0 38.09N 26.85E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.3km az=21.7.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.0km az=32.0.
ISC I 09 04 12 14.7–1.1 38.93N–.03 26.52E–.03 10–9 38 0-1
ISCJB I 09 04 12 15.0–.51 38.96N–.02 26.50E–.04 3–6 ¶16357922
CSEM I 09 04 12 14.9–.27 38.95N 26.51E 12 2.7
ISK I 09 04 12 14.0 38.93N 26.50E 9 2.7
DDA I 09 04 12 15.2 38.97N 26.51E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.6km az=171.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=55.0.
DDA Event type ke.
ISC I 09 14 10 31.5–.79 39.07N–.02 23.18E–.02 17–5 105 0-2
ISCJB I 09 14 10 31.4–.29 39.08N–.02 23.20E–.03 22–3 ¶16868849
CSEM I 09 14 10 31.3–.14 39.07N 23.17E 15 2.7
THE I 09 14 10 31.6 39.07N 23.17E 14–0 1.9L
ATH I 09 14 10 31.1 39.07N 23.20E 19–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=26.5.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=103.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=352.0.
ATH Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0.
ISC I 09 21 50 46.9–.93 38.97N–.02 26.44E–.02 10–8 109 0-3
CSEM I 09 21 50 46.9–.08 38.96N 26.44E 10 2.1L ¶16357943
ATH I 09 21 50 46.0 38.95N 26.41E 19–0 3.0
ISCJB I 09 21 50 46.6–.41 38.96N–.02 26.43E–.03 8–3 3.0
DDA I 09 21 50 46.6 38.97N 26.47E 25 3.0
ISK I 09 21 50 46.5 38.99N 26.44E 10 3.1
THE I 09 21 50 47.1 38.97N 26.42E 4–1 2.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=51.0.
ATH Error ellipse: s-maj=0.4km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=155.2.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=255.0.
ISC I 14 18 05 47.6–.86 38.41N–.02 26.37E–.02 15–6 74 0-2
DDA I 14 18 05 46.0 38.44N 26.31E 7 2.8 ¶16358076
CSEM I 14 18 05 47.7–.16 38.41N 26.37E 15 3.2
ATH I 14 18 05 47.5 38.40N 26.29E 31–1 3.2
ISK I 14 18 05 47.6 38.35N 26.34E 22 2.8
ISCJB I 14 18 05 48.2–.40 38.41N–.02 26.36E–.04 20–4 2.8
THE I 14 18 05 48.4 38.44N 26.38E 12–1 2.5L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=59.0.
ATH Error ellipse: s-maj=2.0km s-min=2.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.5km az=149.4.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=259.0.
ISC I 15 16 37 09.8–.91 39.98N–.01 23.72E–.02 3–7 112 0-2
CSEM I 15 16 37 09.7–.09 39.97N 23.72E 5 2.3L ¶16868985
ATH I 15 16 37 09.8 39.98N 23.72E 5–1 3.0
SOF I 15 16 37 10.4 39.87N 23.77E 24 3.0
THE I 15 16 37 10.0 39.98N 23.70E 2–2 2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=98.0.
ATH Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.6km az=160.0.
ISC I 17 09 04 60.0–1.0 38.77N–.02 26.85E–.02 14–9 57 0-2
DDA I 17 09 04 60.0 38.79N 26.83E 7 2.6 ¶16358141
ISK I 17 09 04 59.5 38.71N 26.89E 5 2.9
ISCJB I 17 09 05 00.9–.45 38.76N–.03 26.82E–.03 25–5 2.9
ATH I 17 09 05 00.8 38.76N 26.71E 30–5 2.8
CSEM I 17 09 05 00.5–.23 38.75N 26.83E 15 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=40.2.
ATH Error ellipse: s-maj=1.5km s-min=4.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.9km az=22.0.
ISC I 18 13 01 59.2–.85 40.28N–.02 25.40E–.02 15–6 77 0-2
ISCJB I 18 13 01 58.7–.48 40.26N–.02 25.40E–.03 5–4 ¶16358172
CSEM I 18 13 01 58.9–.18 40.27N 25.38E 2 2.0L
THE I 18 13 01 59.2 40.30N 25.34E 12–6 2.0L
ATH I 18 13 01 59.3 40.27N 25.42E 13–2 2.8
ISK I 18 13 01 59.7 40.22N 25.48E 5 3.0
DDA I 18 13 02 00.7 40.24N 25.61E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=172.7.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=3.0.
THE Event type ke. Error ellipse: s-maj=8.8km s-min=1.0km az=108.0.
ATH Error ellipse: s-maj=0.5km s-min=0.8km az=-1.0.
DDA Event type ke.
ISC I 20 11 10 45.1–1.1 40.35N–.02 25.83E–.02 11–10 65 0-3
ISCJB I 20 11 10 44.5–.75 40.34N–.03 25.80E–.04 9–5 ¶16358258
ATH I 20 11 10 44.8 40.36N 25.80E 28–2 2.7
ISK I 20 11 10 44.1 40.35N 25.80E 8 2.7
CSEM I 20 11 10 45.3–.15 40.34N 25.84E 12 2.7
DDA I 20 11 10 46.6 40.27N 26.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=137.3.
ATH Error ellipse: s-maj=1.6km s-min=2.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=141.0.
DDA Event type ke.
ISC I 20 11 39 37.5–.86 39.55N–.01 23.44E–.01 12–6 4.0b,3.4s 575 0-73
IDC I 20 11 39 35.7–.78 39.53N 23.41E 0 4.1b,4.1 ¶15960442
ISCJB I 20 11 39 36.9–.31 39.561N–.01 23.43E–.02 12–2 4.0b,3.3s
ATH I 20 11 39 36.7 39.55N 23.51E 25–0 3.8L,3.5
PDG I 20 11 39 37.3–.58 39.54N 23.45E 15–0 3.8L,3.5
CSEM I 20 11 39 37.3–.08 39.52N 23.40E 10 4.0L,3.5
THE I 20 11 39 37.4 39.55N 23.49E 13–1 4.0L,3.5
SOF I 20 11 39 37.3 39.66N 23.65E 2 4.0L,3.5
NEIC I 20 11 39 37.4 39.55N 23.49E 13 4.0L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=15.3km s-min=12.6km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=8.9.
ATH Error ellipse: s-maj=0.6km s-min=0.8km az=-1.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=1.0km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=91.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=134.0.
NEIC Event type se. After THE.
ISC I 21 09 32 48.0–1.1 38.83N–.02 26.68E–.02 11–9 79 0-2
DDA I 21 09 32 46.9 38.84N 26.63E 7 2.6 ¶16358286
ISCJB I 21 09 32 48.0–.42 38.82N–.02 26.63E–.03 11–3 2.6
ATH I 21 09 32 47.6 38.84N 26.70E 24–2 3.0
CSEM I 21 09 32 48.0–.15 38.80N 26.69E 2 2.8
ISK I 21 09 32 48.0 38.81N 26.70E 5 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=7.4.
ATH Error ellipse: s-maj=0.9km s-min=1.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=97.0.
ISC I 21 17 43 26.7–.95 40.03N–.02 24.26E–.02 16–8 98 0-2
ISCJB I 21 17 43 26.7–.72 40.02N–.02 24.26E–.03 14–5 ¶16871509
CSEM I 21 17 43 26.5–.10 40.02N 24.27E 15 2.8
ATH I 21 17 43 26.6 40.03N 24.25E 15–5 2.8
THE I 21 17 43 27.0 40.02N 24.26E 16–0 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=12.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=115.0.
ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=292.0.
ISC I 23 03 40 59.7–1.1 38.91N–.02 26.44E–.02 8–9 122 0-3
ISCJB I 23 03 40 59.6–.58 38.86N–.02 26.35E–.03 4–4 ¶16358346
DDA I 23 03 40 59.7 38.87N 26.42E 24 3.1
CSEM I 23 03 41 00.7–.15 38.87N 26.43E 5 2.7
ATH I 23 03 41 00.2 38.90N 26.40E 28–1 2.7
ISK I 23 03 41 00.7 38.89N 26.48E 5 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.7km az=161.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=67.0.
ATH Error ellipse: s-maj=0.9km s-min=2.3km az=-1.0.
ISC I 23 06 04 17.7–.89 38.20N–.02 26.71E–.03 13–6 51 0-2
ISK I 23 06 04 16.8 38.19N 26.71E 7 2.8 ¶16358348
ISCJB I 23 06 04 17.4–.61 38.19N–.02 26.69E–.04 7–4 2.8
DDA I 23 06 04 17.6 38.20N 26.73E 7 2.8
CSEM I 23 06 04 17.3–.14 38.19N 26.69E 8–1 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.6km az=155.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=67.0.
ISC I 23 13 06 35.6–.93 39.55N–.01 23.49E–.02 12–7 3.7b,3.2s 333 0-80
ATH I 23 13 06 34.9 39.54N 23.50E 29–0 3.8L,3.5 ¶15960510
ISCJB I 23 13 06 35.0–.39 39.56N–.01 23.46E–.02 12–3 3.7b,3.5s
THE I 23 13 06 35.7 39.55N 23.48E 12–0 3.7L,3.5s
CSEM I 23 13 06 35.9–.09 39.53N 23.43E 15 3.5,3.5s
IDC I 23 13 06 35.3–.85 39.48N 23.08E 0 3.8,3.8
SOF I 23 13 06 38.4 39.82N 23.70E 2 3.8,3.8
ISC Event type ke.
ATH Error ellipse: s-maj=0.5km s-min=0.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=13.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=335.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=98.0.
IDC Error ellipse: s-maj=22.6km s-min=13.1km az=113.0.
ISC I 23 19 10 13.9–1.4 38.18N–.04 26.53E–.05 8–8 50 0-2
ISCJB I 23 19 10 13.7–1.1 38.20N–.04 26.45E–.07 5–5 ¶601609029
ISK I 23 19 10 13.7 38.19N 26.53E 9 2.8
CSEM I 23 19 10 14.4–.50 38.21N 26.50E 10 2.3
DDA I 23 19 10 15.9 38.27N 26.61E 6 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.7km az=165.4.
CSEM Event type ke. Error ellipse: s-maj=12.2km s-min=6.5km az=66.0.
DDA Event type ke.
ISC I 24 17 54 07.4–.98 38.53N–.02 26.71E–.02 14–8 133 0-4
ISCJB I 24 17 54 06.9–.50 38.52N–.02 26.71E–.03 7–4 ¶16358374
ISK I 24 17 54 06.5 38.52N 26.73E 8 3.3
CSEM I 24 17 54 07.4–.11 38.52N 26.71E 12 3.1
DDA I 24 17 54 07.3 38.55N 26.78E 21 3.1
ATH I 24 17 54 07.4 38.53N 26.73E 54–8 3.4
THE I 24 17 54 08.6 38.54N 26.78E 24–4 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=144.1.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=60.0.
DDA Event type ke.
ATH Error ellipse: s-maj=1.0km s-min=2.9km az=-1.0.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=0.8km az=82.0.
ISC I 25 04 37 05.4–.86 38.30N–.02 26.56E–.04 8–5 45 0-2
DDA I 25 04 37 04.0 38.31N 26.52E 12 2.6 ¶16358383
ISK I 25 04 37 04.9 38.30N 26.61E 6 2.7
ISCJB I 25 04 37 05.2–.52 38.29N–.03 26.56E–.04 4–4 2.7
CSEM I 25 04 37 05.3–.26 38.30N 26.55E 5 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.3km az=166.7.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=58.0.
ISC I 26 00 49 20.8–.97 40.27N–.02 25.47E–.01 8–8 172 0-3
DDA I 26 00 49 19.1 40.19N 25.47E 4 3.1 ¶16358402
ISCJB I 26 00 49 20.3–.48 40.27N–.02 25.47E–.02 4–4 3.1
ATH I 26 00 49 20.6 40.29N 25.48E 21–1 3.4
ISK I 26 00 49 20.6 40.26N 25.50E 7 3.3
THE I 26 00 49 21.4 40.29N 25.51E 11–0 2.7L
CSEM I 26 00 49 21.0–.12 40.26N 25.47E 8 3.4
SOF I 26 00 49 25.0 40.53N 25.14E 5 3.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.2km az=44.9.
ATH Error ellipse: s-maj=0.5km s-min=0.9km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=69.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=13.0.
ISC I 26 01 30 48.4–.87 40.29N–.02 25.47E–.01 11–7 214 0-5
CSEM I 26 01 30 47.5–.11 40.27N 25.39E 2 3.5 ¶16358403
ISCJB I 26 01 30 47.1–.43 40.27N–.02 25.41E–.02 1–3 3.5
DDA I 26 01 30 48.0 40.19N 25.57E 15 3.2
ATH I 26 01 30 47.6 40.30N 25.47E 25–0 3.5
THE I 26 01 30 48.6 40.29N 25.49E 10–1 3.0L
ISK I 26 01 30 48.1 40.25N 25.53E 2 3.3L
SOF I 26 01 30 50.3 40.43N 25.29E 6 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=9.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=38.9.
DDA Event type ke.
ATH Error ellipse: s-maj=0.5km s-min=0.7km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=64.0.
ISC I 26 02 41 44.2–.93 40.30N–.03 25.47E–.03 14–8 36 0-2
ATH I 26 02 41 43.4 40.31N 25.47E 24–1 2.9 ¶600871999
ISCJB I 26 02 41 44.1–.70 40.32N–.03 25.44E–.05 16–7 2.9
CSEM I 26 02 41 44.1–.19 40.32N 25.44E 15 2.9
DDA I 26 02 41 46.1 40.24N 25.67E 7 2.5
ISC Event type ke.
ATH Error ellipse: s-maj=0.8km s-min=1.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.4km az=11.4.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=109.0.
DDA Event type ke.
ISC I 26 02 48 31.8–1.0 40.29N–.02 25.51E–.02 10–9 44 0-2
ISCJB I 26 02 48 31.5–.97 40.30N–.03 25.51E–.04 8–7 ¶600872001
ATH I 26 02 48 31.7 40.29N 25.50E 17–1 3.0
CSEM I 26 02 48 31.8–.25 40.30N 25.52E 10 3.0
DDA I 26 02 48 34.8 40.26N 25.74E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=43.4.
ATH Error ellipse: s-maj=0.6km s-min=1.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.7km az=30.0.
DDA Event type ke.
ISC I 27 03 56 48.6–.97 40.60N–.02 24.05E–.03 15–10 72 0-3
ISCJB I 27 03 56 48.8–.55 40.58N–.03 24.06E–.04 24–6 ¶16871594
CSEM I 27 03 56 48.7–.31 40.55N 24.06E 2 2.7
THE I 27 03 56 48.9 40.61N 24.04E 2–4 2.1L
ATH I 27 03 56 48.1 40.61N 24.02E 28–1 2.7
BEO I 27 03 56 50.1–1.3 40.44N 23.86E 0 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=15.8.

CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=92.0.
THE Event type ke. Error ellipse: s-maj=4.4km s-min=0.7km az=123.0.
ATH Error ellipse: s-maj=0.7km s-min=1.0km az=-1.0.
BEO Event type ke.
ISC I 27 09 46 59.6–.90 40.33N–.02 25.86E–.02 15–8 76 0-3
ISCJB I 27 09 46 58.7–.73 40.30N–.03 25.80E–.03 9–5 **¶16358420**
ISK I 27 09 46 58.4 40.34N 25.83E 2 2.8L,2.8
ATH I 27 09 46 58.9 40.35N 25.85E 25–1 2.6,2.8
CSEM I 27 09 46 59.4–.14 40.30N 25.84E 10 2.6,2.8
DDA I 27 09 46 59.8 40.31N 25.91E 30 2.9,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.1km az=13.5.
ATH Error ellipse: s-maj=0.7km s-min=1.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=142.0.
DDA Event type ke.
DDA I 27 18 14 29.1 38.80N 26.59E 7 2.8
CSEM I 27 18 14 30.5–.35 38.84N 26.72E 2 2.8 **¶601609190**
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=5.3km az=111.0.
ATH I 29 07 41 07.4 39.54N 23.52E 3–2 2.7
CSEM I 29 07 41 07.4 39.54N 23.52E 3 2.7 **¶600872144**
ATH Error ellipse: s-maj=0.7km s-min=1.4km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 30 07 57 52.4–.98 38.16N–.02 26.54E–.04 9–8 54 0-3
ATH I 30 07 57 51.7 38.13N 26.49E 18–4 2.8 **¶16358474**
ISCJB I 30 07 57 52.1–.87 38.15N–.03 26.56E–.05 6–6 2.8
CSEM I 30 07 57 52.5–.22 38.16N 26.56E 8 2.9
DDA I 30 07 57 53.0 38.18N 26.70E 7 2.9
ISK I 30 07 57 52.0 38.15N 26.55E 6 2.8
ISC Event type ke.
ATH Error ellipse: s-maj=1.6km s-min=3.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.4km az=162.8.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=79.0.
DDA Event type ke.
ISC II 01 02 22 24.5–1.4 40.19N–.03 25.56E–.06 9–11 34 0-2
ISCJB II 01 02 22 23.9–1.1 40.21N–.03 25.51E–.07 3–7 **¶16494039**
ATH II 01 02 22 23.5 40.21N 25.46E 24–3 1.8L
CSEM II 01 02 22 24.3–.26 40.21N 25.52E 5 2.9
ISK II 01 02 22 24.2 40.20N 25.56E 7 2.9
DDA II 01 02 22 29.8 40.16N 26.13E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.3km az=179.1.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.5km az=241.0. Analyst: A. Fokaefs ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.8km az=91.0.
DDA Event type ke.
ISC II 01 02 54 49.3–1.0 38.59N–.03 26.77E–.05 10–12 20 0-1
ISCJB II 01 02 54 49.0–.62 38.59N–.04 26.81E–.06 8–11 **¶16494040**
ISK II 01 02 54 48.6 38.61N 26.83E 3 2.4
CSEM II 01 02 54 49.3–.23 38.59N 26.81E 2 2.7
DDA II 01 02 54 49.0 38.59N 26.77E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.0km az=19.7.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=89.0.
DDA Event type ke.
ISC II 01 23 00 08.2–.86 39.54N–.01 23.49E–.02 15–6 3.7b 194 0-43
ISCJB II 01 23 00 07.6–.61 39.54N–.01 23.52E–.03 11–5 3.4b **¶16397433**
ATH II 01 23 00 07.4 39.53N 23.50E 28–0 3.0L
IDC II 01 23 00 07.1–1.2 39.45N 23.31E 0 3.6b,3.5
CSEM II 01 23 00 08.1–.10 39.54N 23.52E 15 3.0L,3.5
THE II 01 23 00 08.5 39.55N 23.47E 13–0 3.1L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.2km az=4.5.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=91.0. Analyst: Ch.Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=43.3km s-min=17.9km az=119.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=1.8km az=95.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=105.0.
ISC II 02 08 52 06.5–.97 39.34N–.02 25.52E–.02 8–8 227 0-8
ATH II 02 08 52 06.0 39.33N 25.54E 28–1 3.7L **¶16494099**
ISK II 02 08 52 05.8 39.35N 25.50E 9 3.8L
ISCJB II 02 08 52 05.6–.47 39.35N–.02 25.49E–.02 3–4 3.8L
DDA II 02 08 52 06.2 39.40N 25.55E 30 3.3
CSEM II 02 08 52 06.5–.09 39.33N 25.51E 8 3.7L
THE II 02 08 52 06.2 39.34N 25.52E 0–1 3.6L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=84.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=18.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=6.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=153.0.
ISC II 06 14 18 24.1–.86 38.61N–.01 26.71E–.02 16–7 135 0-6
DDA II 06 14 18 24.0 38.63N 26.69E 14 3.1 **¶16494268**
ATH II 06 14 18 23.4 38.62N 26.74E 30–1 3.2L
ISK II 06 14 18 23.9 38.62N 26.75E 10 3.1,2.9L
CSEM II 06 14 18 24.2–.11 38.62N 26.71E 12 3.1,2.9L
ISCJB II 06 14 18 24.6–.29 38.62N–.02 26.69E–.03 20–4 3.1,2.9L
THE II 06 14 18 25.5 38.58N 26.64E 27–7 3.0L,2.9L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=257.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=162.2.
THE Event type ke. Error ellipse: s-maj=7.7km s-min=1.5km az=219.0.
ISC II 06 22 33 33.6–.85 38.99N–.02 25.97E–.03 14–6 68 0-2
ATH II 06 22 33 32.8 39.00N 26.03E 24–1 1.8L **¶16494283**
ISCJB II 06 22 33 33.6–.55 39.00N–.02 25.97E–.05 5–4 1.8L
THE II 06 22 33 33.7 38.99N 25.98E 4–2 1.9L
DDA II 06 22 33 33.9 39.03N 25.98E 7 2.6
CSEM II 06 22 33 33.7–.20 38.98N 25.95E 8 2.9
ISK II 06 22 33 34.8 39.07N 26.02E 6 2.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=72.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.0km az=168.9.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.6km az=83.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.3km az=77.0.
ISC II 07 00 57 13.8–.92 38.15N–.02 26.63E–.03 9–7 48 0-2
ISK II 07 00 57 12.4 38.12N 26.63E 6 2.8 **¶16494286**
CSEM II 07 00 57 13.6–.27 38.15N 26.59E 8 2.7
DDA II 07 00 57 13.7 38.16N 26.63E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=79.0.
DDA Event type ke.
ISC II 08 04 57 17.7–1.1 39.79N–.03 25.46E–.03 14–10 44 1-3
CSEM II 08 04 57 17.9–.28 39.81N 25.48E 10 2.9 **¶16494340**
ISK II 08 04 57 17.3 39.82N 25.49E 6 2.9
ATH II 08 04 57 17.8 39.76N 25.43E 18–4 1.7L
ISCJB II 08 04 57 18.9–.76 39.77N–.03 25.49E–.06 22–11 1.7L
ISC Event type ke.
CSEM Event type ke.
ATH Event type ke. Analyst: diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke.
ISC II 09 02 30 53.1–.89 39.36N–.01 25.80E–.02 14–7 225 0-7
ATH II 09 02 30 52.6 39.35N 25.83E 26–0 2.5L **¶16494374**
DDA II 09 02 30 53.0 39.40N 25.91E 37 3.1
CSEM II 09 02 30 53.7–.11 39.35N 25.77E 10 2.5L
ISCJB II 09 02 30 53.0–.41 39.35N–.02 25.77E–.02 11–3 2.5L
ISK II 09 02 30 53.4 39.41N 25.84E 6 3.2L
THE II 09 02 30 54.0 39.34N 25.80E 15–1 2.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=70.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=44.8.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=95.0.
ISC II 10 22 03 47.4–.86 39.74N–.02 24.15E–.03 14 41 0-3
CSEM II 10 22 03 47.2 39.72N 24.18E 31 2.0L **¶16494416**
ATH II 10 22 03 47.2 39.72N 24.18E 31–1 2.0L
ISCJB II 10 22 03 48.3–.44 39.72N–.03 24.16E–.04 14 2.0L
ISK II 10 22 03 52.0 40.53N 24.44E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=297.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=21.3.
ATH II 10 22 04 28.9 39.18N 24.11E 4–46 2.1L
CSEM II 10 22 04 28.9 39.18N 24.11E 4 2.1L **¶600896383**
ATH Event type ke. Error ellipse: s-maj=46.8km s-min=1.8km az=0.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 11 08 42 41.2–1.0 38.55N–.03 26.57E–.03 18–3 26 0-1
ISK II 11 08 42 40.4 38.57N 26.57E 15 2.3 **¶16494427**
CSEM II 11 08 42 41.2–.31 38.55N 26.57E 10 2.3
DDA II 11 08 42 41.4 38.56N 26.51E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.3km az=6.0.
DDA Event type ke.
ISC II 11 13 45 15.9–.82 40.34N–.02 25.69E–.02 14–6 68 0-2
ISK II 11 13 45 14.5 40.34N 25.64E 5 2.7 **¶16494438**
ISCJB II 11 13 45 15.7–.40 40.33N–.02 25.71E–.03 9–3 2.7
CSEM II 11 13 45 15.6–.11 40.33N 25.68E 10 2.2L
THE II 11 13 45 16.2 40.33N 25.68E 11–0 2.2L
DDA II 11 13 45 17.4 40.29N 25.83E 27 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=172.2.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=106.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=309.0.
DDA Event type ke.
ISC II 11 15 32 30.1–.85 40.32N–.02 25.70E–.02 13–6 60 0-2
ISK II 11 15 32 28.5 40.30N 25.61E 9 2.7 **¶16494440**
ISCJB II 11 15 32 30.0–.47 40.34N–.02 25.69E–.04 5–5 2.7
CSEM II 11 15 32 30.1–.12 40.34N 25.68E 10 1.9L
THE II 11 15 32 30.1 40.32N 25.71E 3–9 1.9L
DDA II 11 15 32 32.0 40.31N 25.78E 4 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=178.6.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=109.0.
THE Event type ke. Error ellipse: s-maj=9.7km s-min=0.4km az=305.0.
DDA Event type ke.
ISC II 12 14 45 48.6–.99 40.55N–.02 25.71E–.02 6–9 46 0-3
ISCJB II 12 14 45 48.4–.48 40.54N–.03 25.72E–.03 6–5 **¶16494478**
CSEM II 12 14 45 48.5–.18 40.55N 25.73E 2 2.1L
THE II 12 14 45 48.7 40.54N 25.68E 1–3 2.1L
ISK II 12 14 45 49.2 40.52N 25.79E 14 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=159.7.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=3.0.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=1.1km az=125.0.
ISC II 14 21 16 24.9–.78 38.27N–.02 26.54E–.02 13–4 86 0-3
CSEM II 14 21 16 24.9–.15 38.25N 26.55E 8 2.8 **¶16494519**
ATH II 14 21 16 24.4 38.26N 26.51E 30–1 2.3L
ISK II 14 21 16 24.7 38.26N 26.59E 8 2.8
DDA II 14 21 16 25.0 38.27N 26.57E 11 2.8
ISCJB II 14 21 16 25.2–.36 38.27N–.02 26.55E–.03 9–2 2.8
IASPE II 14 21 16 25.0–.81 38.27N–.02 26.55E–.02 12–5 2.8
ISC Event type ke.
CSEM Event type ke.
ATH Event type ke. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
DDA Event type ke.
ISCJB Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISC II 18 10 55 25.7–.95 38.95N–.02 26.67E–.02 9–8 112 0-3
DDA II 18 10 55 24.6 38.99N 26.68E 5 2.9 **¶16494603**
ATH II 18 10 55 24.6 38.97N 26.73E 23–1 2.4L
ISCJB II 18 10 55 25.5–.41 38.96N–.02 26.67E–.03 7–3 2.4L
THE II 18 10 55 25.6 38.95N 26.67E 5–2 2.6L
ISK II 18 10 55 25.2 38.95N 26.69E 7 3.0
CSEM II 18 10 55 25.7–.10 38.95N 26.66E 8 3.0
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=245.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=177.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.5km az=269.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=78.0.
ISC II 20 05 43 24.4–1.0 38.04N–.03 25.86E–.04 16–8 38 0-2
DDA II 20 05 43 21.4 37.67N 26.13E 5 2.6 **¶600896684**
ATH II 20 05 43 23.8 38.07N 25.88E 29–1 2.2L
CSEM II 20 05 43 24.2–.18 38.05N 25.85E 10 2.2L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=91.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=119.0.
ISC II 22 20 02 21.0–.85 38.54N–.02 26.77E–.02 15–7 57 0-2
ISCJB II 22 20 02 21.0–.45 38.54N–.02 26.76E–.03 7–5 **¶16494778**
DDA II 22 20 02 20.9 38.54N 26.77E 10 2.7
ATH II 22 20 02 20.6 38.52N 26.74E 31–3 2.3L
ISK II 22 20 02 20.7 38.56N 26.79E 13 2.6
CSEM II 22 20 02 21.2–.13 38.54N 26.77E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=143.7.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.6km az=247.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=50.0.
ISC II 22 20 37 02.5–.93 38.85N–.02 24.93E–.01 7–6 4.0b,3.6s 706 1-97
ISCJB II 22 20 37 00.6–.50 38.90N–.01 24.94E–.01 4–4 4.0b,3.5s **¶16154804**
ISK II 22 20 37 01.2 38.94N 24.93E 10 4.4L,3.5s
IDC II 22 20 37 01.8–.66 38.90N 24.87E 0 4.1,4.1
ATH II 22 20 37 02.3 38.86N 24.95E 37–2 4.4L,4.1
THE II 22 20 37 02.9 38.85N 24.96E 13–1 4.5L,4.1
CSEM II 22 20 37 02.5–.06 38.86N 24.95E 10 4.1b,4.1
NEIC II 22 20 37 02.8–.34 38.91N 24.93E 10 4.0b,4.1
BJI II 22 20 37 03.0 38.90N 24.90E 10 4.7b,4.5s
DDA II 22 20 37 03.3 38.88N 25.08E 36 3.6,4.5s
MOS II 22 20 37 03.0–1.2 38.94N 25.00E 22 4.3b,4.5s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=177.9.
IDC Error ellipse: s-maj=12.9km s-min=12.0km az=8.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=93.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=65.0.

CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=4.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=5.0km az=205.0.
DDA Event type ke.
MOS Error ellipse: s-maj=5.6km s-min=3.3km az=95.7.

ISC	**II**	**23 14 56 58.9–.97**	**38.75N–.01**	**26.59E–.02**	**13–8**		**130**	**0-3**
DDA	II	23 14 56 58.0	38.76N	26.63E	28	3.2		¶16494816
ISCJB	II	23 14 56 58.7–.47	38.76N–.01	26.56E–.03	10–3	3.2		
ISK	II	23 14 56 58.7	38.79N	26.56E	11	3.0		
THE	II	23 14 56 59.4	38.74N	26.57E	9–1	3.2L		
CSEM	II	23 14 56 59.2–.10	38.75N	26.57E	15	3.0		
ATH	II	23 14 56 59.0	38.73N	26.50E	33–1	3.1L		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=175.9.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=263.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=92.0.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.2km az=259.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**II**	**24 03 48 53.3–.81**	**39.55N–.01**	**23.46E–.02**	**16–5**	**3.6b**	**330**	**0-96**
IDC	II	24 03 48 51.5–.72	39.58N	23.25E	0	3.8,3.7		¶16168915
ATH	II	24 03 48 52.9	39.56N	23.45E	26–0	3.5L,3.7		
CSEM	II	24 03 48 53.6–.09	39.54N	23.43E	10	3.5L,3.7		
SOF	II	24 03 48 53.1	39.65N	23.60E	1	3.7,3.7		
THE	II	24 03 48 53.8	39.55N	23.47E	13–0	3.7L,3.7		
ISCJB	II	24 03 48 54.0–.24	39.56N–.01	23.43E–.02	22–2	3.6b,3.6s		
DDA	II	24 03 49 27.2	39.02N	26.99E	8	3.1,3.6s		

ISC Event type ke.
IDC Error ellipse: s-maj=17.0km s-min=12.6km az=136.0.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=282.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=91.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=6.3.
DDA Event type ke.

ISC	**II**	**26 20 46 52.5–.81**	**40.34N–.02**	**25.84E–.01**	**13–5**		**170**	**0-7**
ATH	II	26 20 46 51.8	40.35N	25.82E	27–1	2.6L		¶16494896
DDA	II	26 20 46 52.2	40.33N	25.86E	29	3.2		
THE	II	26 20 46 52.2	40.32N	25.87E	0–2	2.7L		
ISK	II	26 20 46 52.8	40.32N	25.92E	6	3.0L		
CSEM	II	26 20 46 52.5–.10	40.34N	25.82E	5	3.0L		
ISCJB	II	26 20 46 52.3–.36	40.35N–.02	25.83E–.02	8–3	3.0L		
SOF	II	26 20 46 53.5	40.42N	25.76E	6	2.5		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=20.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.9km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=21.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=44.1.

ATH	**II**	**28 13 16 34.9**	**39.55N**	**23.46E**	**26–1**	**2.0L**		
CSEM	II	28 13 16 35.6–.11	39.54N	23.49E	15	2.0L		¶16872197
THE	II	28 13 16 36.1	39.56N	23.46E	7–1	2.1L		

ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=210.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.7km az=103.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=174.0.

ISC	**III**	**01 20 07 05.7–1.1**	**38.53N–.03**	**26.71E–.04**	**7–12**		**23**	**0-2**
CSEM	III	01 20 07 05.6–.31	38.51N	26.72E	2	2.6		¶16494961
ISK	III	01 20 07 05.1	38.54N	26.75E	8	2.6		
DDA	III	01 20 07 05.6	38.51N	26.66E	7	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.5km az=52.0.

ISC	**III**	**03 22 45 20.1–1.1**	**38.60N–.02**	**26.86E–.04**	**10–9**		**32**	**0-2**
ISK	III	03 22 45 18.8	38.60N	26.80E	5	2.7		¶16495045
CSEM	III	03 22 45 19.5–.44	38.59N	26.80E	5	2.7		
DDA	III	03 22 45 20.8	38.58N	26.94E	6	2.7		
ISCJB	III	03 22 45 20.4–.68	38.62N–.03	26.91E–.05	2–7	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**06 00 41 19.9–1.0**	**38.98N–.06**	**26.15E–.05**	**12**		**16**	**0-1**
CSEM	III	06 00 41 17.2–1.6	38.81N	26.06E	10	2.6		¶601610208
DDA	III	06 00 41 20.1	39.03N	26.04E	7	2.6		
ISCJB	III	06 00 41 20.9–.79	39.04N–.04	26.08E–.07	12	2.6		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**06 06 33 41.6–.91**	**38.20N–.05**	**26.67E–.03**	**16–7**		**30**	**0-1**
DDA	III	06 06 33 40.8	38.12N	26.65E	7			¶16495100
ISCJB	III	06 06 33 41.8–.71	38.22N–.07	26.67E–.04	15–7			
CSEM	III	06 06 33 41.9–.18	38.23N	26.67E	20	2.5		
ISK	III	06 06 33 41.5	38.23N	26.68E	22	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=4.4km az=12.3.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=7.0.

ISC	**III**	**06 11 33 30.5–.94**	**39.53N–.01**	**23.47E–.02**	**13–8**		**200**	**0-7**
ISK	III	06 11 33 29.9	39.55N	23.33E	5	3.5		¶16495103
SOF	III	06 11 33 30.5	39.60N	23.50E	2	2.9		
ATH	III	06 11 33 30.4	39.54N	23.51E	24–0	2.8L		
ISCJB	III	06 11 33 31.1–.35	39.54N–.01	23.47E–.03	10–3	2.8L		
CSEM	III	06 11 33 31.0–.11	39.54N	23.51E	12	3.0L		
THE	III	06 11 33 31.3	39.54N	23.49E	13–0	3.0L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=275.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.2km az=8.7.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.2km az=94.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=274.0.

ISC	**III**	**08 10 56 52.5–.82**	**39.94N–.02**	**23.45E–.02**	**15–6**		**106**	**0-5**
SOF	III	08 10 56 48.9	39.64N	23.42E	14	2.6		¶16872294
ATH	III	08 10 56 52.3	39.95N	23.45E	27–1	2.6L		
ISCJB	III	08 10 56 52.7–.43	39.94N–.02	23.47E–.04	10–4	2.6L		
CSEM	III	08 10 56 52.7–.14	39.94N	23.49E	15	2.6L		
THE	III	08 10 56 53.1	39.94N	23.45E	11–1	2.8L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=21.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=18.7.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=101.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=164.0.

ISC	**III**	**10 07 18 39.1–1.8**	**38.90N–.03**	**26.24E–.05**	**17–13**		**26**	**1-2**
ISK	III	10 07 18 39.3	38.96N	26.36E	6	2.5		¶16495182
ISCJB	III	10 07 18 39.8–.63	38.95N–.03	26.36E–.08	6–10	2.5		
CSEM	III	10 07 18 40.2–.30	38.94N	26.36E	10	2.5		
DDA	III	10 07 18 40.1	38.93N	26.46E	7	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.4km az=169.7.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=102.0.

ATH	**III**	**11 10 25 08.7**	**38.89N**	**24.13E**	**27–1**	**2.1L**		
CSEM	III	11 10 25 08.7	38.89N	24.13E	27	2.1L		¶600897130

ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=63.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ATH	**III**	**11 19 40 26.5**	**39.15N**	**24.16E**	**13–6**	**1.4L**		
CSEM	III	11 19 40 26.5	39.15N	24.16E	13	1.4L		¶600897142

ATH Event type ke. Error ellipse: s-maj=6.1km s-min=1.1km az=286.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**11 19 41 34.7–1.0**	**38.58N–.03**	**26.29E–.03**	**10–11**		**52**	**0-3**
DDA	III	11 19 41 33.8	38.58N	26.26E	7			¶16495225
ISK	III	11 19 41 34.6	38.57N	26.28E	9	2.8		
ISCJB	III	11 19 41 34.8–.49	38.58N–.03	26.28E–.04	9–5	2.8		
CSEM	III	11 19 41 35.2–.21	38.59N	26.29E	10	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=151.5.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.2km az=108.0.

ISC	**III**	**11 22 30 02.8–1.1**	**38.12N–.04**	**26.62E–.03**	**7–10**		**26**	**0-1**
ISCJB	III	11 22 30 03.4–.78	38.15N–.05	26.65E–.04	3–10			¶16495228
CSEM	III	11 22 30 03.8–.20	38.16N	26.65E	12	2.5		
ISK	III	11 22 30 03.2	38.16N	26.68E	15	2.5		
DDA	III	11 22 30 03.3	38.20N	26.64E	8	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=11.3.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.6km az=18.0.

ISK	**III**	**12 08 20 50.8**	**40.24N**	**25.94E**	**28**	**2.1**		
CSEM	III	12 08 20 50.8	40.24N	25.94E	28	2.1		¶16495239

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**14 01 09 48.0–1.0**	**38.71N–.01**	**26.34E–.02**	**9–9**		**276**	**0-7**
DDA	III	14 01 09 46.9	38.73N	26.31E	27			¶16495290
ATH	III	14 01 09 47.9	38.71N	26.35E	29–0	2.9L		
THE	III	14 01 09 48.0	38.72N	26.38E	3–1	3.1L		
ISK	III	14 01 09 48.5	38.72N	26.36E	18	3.2L		
CSEM	III	14 01 09 48.5–.06	38.71N	26.35E	12	2.9L		
ISCJB	III	14 01 09 48.5–.39	38.70N–.01	26.33E–.02	17–4	2.9L		

ISC Event type ke.
ATH Event type ke. Analyst: M.Ziazia ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

DDA	**III**	**14 03 31 16.3**	**38.91N**	**26.98E**	**7**			¶602442317

ISC	**III**	**18 13 54 58.8–1.0**	**38.91N–.02**	**26.00E–.02**	**8–9**		**101**	**0-2**
ATH	III	18 13 54 58.2	38.95N	26.02E	26–1	2.4L		¶16495418
DDA	III	18 13 54 58.8	38.95N	25.97E	38	2.4L		
ISCJB	III	18 13 54 58.8–.48	38.94N–.02	25.99E–.03	8–3	2.4L		
ISK	III	18 13 54 58.7	38.96N	26.03E	8	3.1		
CSEM	III	18 13 54 59.1–.12	38.94N	25.98E	10	3.1		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=76.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=75.0.

ISC	**III**	**18 22 56 21.6–1.1**	**38.66N–.01**	**26.38E–.02**	**7–9**		**300**	**0-8**
DDA	III	18 22 56 20.8	38.70N	26.34E	25			¶16495424
ATH	III	18 22 56 21.7	38.66N	26.41E	29–1	3.2L		
THE	III	18 22 56 22.3	38.67N	26.43E	9–0	3.5L		
ISK	III	18 22 56 22.1	38.67N	26.41E	5	3.5L		
ISCJB	III	18 22 56 22.1–.37	38.67N–.01	26.33E–.02	11–3	3.5L		
CSEM	III	18 22 56 22.7–.09	38.65N	26.36E	10	3.6L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=262.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=264.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=170.4.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=93.0.

THE	**III**	**21 09 24 51.8**	**40.64N**	**24.02E**	**11–6**	**1.8L**		
CSEM	III	21 09 24 51.7–.17	40.62N	24.02E	15	1.8L		¶16872484
ATH	III	21 09 24 51.1	40.63N	24.05E	33–4	1.8L		

THE Event type ke. Error ellipse: s-maj=6.0km s-min=0.6km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=111.0.
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.4km az=125.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**III**	**23 01 08 37.1–.84**	**40.43N–.02**	**25.87E–.02**	**13–7**		**81**	**0-2**
ISK	III	23 01 08 36.3	40.42N	25.84E	14	2.5		¶16495556
ISCJB	III	23 01 08 36.9–.41	40.44N–.02	25.86E–.03	9–4	2.5		
ATH	III	23 01 08 36.4	40.43N	25.86E	22–1	1.8L		
THE	III	23 01 08 37.4	40.43N	25.87E	7–1	1.9L		
CSEM	III	23 01 08 37.1–.08	40.43N	25.86E	12	2.5		
DDA	III	23 01 08 38.3	40.39N	25.96E	7	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=13.7.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=91.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=329.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=131.0.

ISC	**III**	**23 10 34 54.7–.82**	**40.42N–.01**	**25.87E–.01**	**13–6**		**204**	**0-6**
ATH	III	23 10 34 54.0	40.43N	25.87E	24–1	2.9L		¶16495566
SOF	III	23 10 34 54.6	40.42N	25.79E	6	2.6		
DDA	III	23 10 34 54.6	40.39N	25.93E	25	2.6		
ISK	III	23 10 34 54.0	40.40N	25.94E	2	3.2L		
ISCJB	III	23 10 34 54.1–.36	40.43N–.01	25.86E–.02	5–3	3.2L		
CSEM	III	23 10 34 54.6–.08	40.42N	25.86E	5	3.2L		
THE	III	23 10 34 55.0	40.42N	25.85E	6–0	3.0L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=77.0. Analyst: M.Ziazia ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=44.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=32.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=350.0.

ISC	**III**	**23 15 26 15.8–1.2**	**38.62N–.02**	**24.24E–.03**	**9–10**		**103**	**0-2**
ISCJB	III	23 15 26 15.9–.71	38.63N–.02	24.27E–.04	9–4			¶16872513
CSEM	III	23 15 26 16.4–.13	38.63N	24.23E	12	2.4L		
ATH	III	23 15 26 16.4	38.63N	24.19E	27–1	2.4L		
THE	III	23 15 26 16.8	38.65N	24.21E	11–0	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=11.4.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=98.0.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=267.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=263.0.

ISC	**III**	**23 18 54 06.9–1.2**	**38.69N–.03**	**26.51E–.03**	**8–11**		**36**	**0-2**
ISK	III	23 18 54 06.8	38.73N	26.52E	9	2.6		¶16495582
CSEM	III	23 18 54 07.6–.16	38.72N	26.49E	12	2.6		
DDA	III	23 18 54 07.0	38.75N	26.46E	7	2.6		
ISCJB	III	23 18 54 07.5–.51	38.73N–.03	26.48E–.05	10–6	2.6		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**23 22 56 45.8–.88**	**40.44N–.02**	**25.87E–.02**	**16–7**		**74**	**0-2**
ISK	III	23 22 56 44.8	40.45N	25.76E	5	2.7		¶16495587
ATH	III	23 22 56 45.5	40.44N	25.88E	26–1	1.8L		
ISCJB	III	23 22 56 46.2–.45	40.43N–.02	25.84E–.04	7–4	1.8L		
CSEM	III	23 22 56 46.3–.13	40.43N	25.81E	10	1.8L		
DDA	III	23 22 56 47.5	40.35N	25.99E	7	1.8L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=327.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=128.0.

ISC	**III**	**24 01 20 21.8–.83**	**40.43N–.02**	**25.86E–.01**	**13–6**		**136**	**0-3**
CSEM	III	24 01 20 21.8–.09	40.42N	25.85E	8	2.8		¶16495596
ATH	III	24 01 20 21.1	40.43N	25.85E	23–1	1.8L		
ISK	III	24 01 20 21.8	40.40N	25.90E	8	2.8		
ISCJB	III	24 01 20 21.6–.36	40.43N–.02	25.85E–.02	7–3	2.8		
THE	III	24 01 20 22.0	40.42N	25.87E	10–0	1.9L		
DDA	III	24 01 20 22.1	40.39N	25.94E	7	1.9L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=166.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=83.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.

ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=160.7.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=97.0.
ISC III 24 04 18 21.4–.84 40.44N–.02 25.88E–.02 14–6 87 0-2
CSEM III 24 04 18 21.4–.07 40.43N 25.87E 10 2.8 ¶16495605
THE III 24 04 18 21.8 40.43N 25.86E 10–0 1.8L
ISK III 24 04 18 21.2 40.43N 25.89E 10 2.8
ISCJB III 24 04 18 21.4–.40 40.43N–.02 25.88E–.03 8–3 2.8
DDA III 24 04 18 21.4 40.41N 25.90E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=126.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=299.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=25.1.
ISC III 24 04 41 50.4–.81 40.43N–.02 25.86E–.02 15–6 157 0-5
ATH III 24 04 41 49.8 40.43N 25.84E 18–1 2.0L ¶16495606
THE III 24 04 41 50.5 40.42N 25.87E 7–0 2.2L
ISCJB III 24 04 41 50.0–.36 40.43N–.02 25.88E–.02 5–3 2.2L
DDA III 24 04 41 50.2 40.40N 25.92E 7 2.2L
ISK III 24 04 41 50.0 40.43N 25.90E 8 3.0
CSEM III 24 04 41 50.1–.08 40.43N 25.87E 5 3.0
SOF III 24 04 41 51.6 40.48N 25.67E 6 2.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=85.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=8.7.
CSEM Event type ke.
ISC III 25 01 19 48.6–.87 38.98N–.02 26.06E–.02 15–7 94 0-3
CSEM III 25 01 19 48.8–.13 39.00N 26.06E 10 2.2L ¶16495651
THE III 25 01 19 48.9 38.99N 26.07E 10–0 2.3L
ATH III 25 01 19 48.2 39.00N 26.07E 22–1 2.2L
DDA III 25 01 19 48.9 39.04N 26.21E 6 2.2L
ISCJB III 25 01 19 48.6–.49 39.00N–.02 26.07E–.04 9–4 2.2L
ISK III 25 01 19 49.0 39.05N 26.16E 9 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=73.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=100.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=258.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=168.3.
ISC III 25 04 48 42.8–.99 38.85N–.02 26.74E–.02 11–8 129 0-3
ATH III 25 04 48 41.8 38.90N 26.85E 24–3 2.5L ¶16495657
ISCJB III 25 04 48 42.9–.41 38.87N–.02 26.73E–.03 9–3 2.5L
DDA III 25 04 48 42.8 38.92N 26.81E 7 2.5L
ISK III 25 04 48 42.6 38.87N 26.78E 6 2.9L
THE III 25 04 48 43.8 38.87N 26.70E 10–1 2.4L
CSEM III 25 04 48 43.2–.09 38.86N 26.73E 10 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.1km az=244.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=140.6.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=234.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=48.0.
ISC III 25 15 58 10.3–.85 38.99N–.02 26.06E–.02 16–7 91 0-3
ATH III 25 15 58 10.0 39.00N 26.02E 24–1 2.4L ¶16495670
ISK III 25 15 58 09.9 38.99N 26.09E 5 3.1
DDA III 25 15 58 09.7 38.98N 25.99E 7 3.1
CSEM III 25 15 58 10.5–.15 38.98N 26.03E 10 2.4L
ISCJB III 25 15 58 10.9–.42 38.99N–.02 26.02E–.04 16–6 2.4L
THE III 25 15 58 10.7 38.98N 26.02E 10–1 2.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=67.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.2km az=161.7.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=85.0.
ISC III 26 08 21 44.0–.97 39.31N–.02 24.02E–.02 13–9 219 0-6
ISK III 26 08 21 42.1 39.22N 23.90E 9 3.3L ¶16495688
ATH III 26 08 21 43.3 39.32N 24.02E 29–0 3.4L
ISCJB III 26 08 21 43.7–.53 39.34N–.02 24.00E–.02 10–4 3.4L
CSEM III 26 08 21 44.5–.09 39.32N 23.96E 15 3.4L
THE III 26 08 21 44.6 39.33N 24.01E 15–0 3.5L
SOF III 26 08 21 45.3 39.52N 24.17E 8 3.3
DDA III 26 08 21 45.3 39.73N 24.10E 21 3.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=279.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=137.9.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=140.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=278.0.
ISC III 28 13 11 28.1–1.4 39.13N–.05 25.47E–.03 8–13 41 0-2
ISK III 28 13 11 27.2 39.10N 25.41E 14 2.9 ¶16495774
CSEM III 28 13 11 28.8–.18 39.08N 25.48E 15 2.2L
ISCJB III 28 13 11 28.6–.74 39.10N–.03 25.48E–.04 11–5 2.2L
ATH III 28 13 11 29.1 39.06N 25.44E 4–45 2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=165.9.
ATH Event type ke. Error ellipse: s-maj=45.2km s-min=1.0km az=0.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 28 16 57 05.0–.91 38.97N–.02 26.04E–.02 10–6 3.5b,3.1s 378 0-74
IDC III 28 16 57 03.3–.89 38.94N 26.14E 0 3.5,3.4 ¶16459627
ATH III 28 16 57 04.1 38.98N 26.07E 26–0 3.7L,3.4
ISCJB III 28 16 57 04.4–.38 38.97N–.01 26.00E–.02 8–2 3.3b,3.1s
ISK III 28 16 57 04.5 38.98N 26.00E 5 3.9L,3.1s
DDA III 28 16 57 04.7 39.01N 26.10E 7 3.9L,3.1s
THE III 28 16 57 05.3 38.97N 26.07E 8–0 3.8L,3.1s
CSEM III 28 16 57 05.0–.08 38.95N 26.00E 5 3.9L,3.1s
ISC Event type ke.
IDC Error ellipse: s-maj=15.8km s-min=15.0km az=84.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=72.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=168.8.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=71.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=34.0.
ISC III 29 02 03 08.5–.85 38.99N–.01 26.04E–.02 13–6 268 0-9
ISCJB III 29 02 03 07.7–.40 38.99N–.01 25.99E–.02 10–3 ¶16495798
ATH III 29 02 03 07.3 38.99N 26.08E 25–1 3.2L
ISK III 29 02 03 07.7 38.99N 26.03E 6 3.3L
DDA III 29 02 03 07.8 39.05N 26.12E 7 3.3L
THE III 29 02 03 08.5 38.99N 26.05E 10–0 2.9L
CSEM III 29 02 03 08.5–.10 38.97N 26.01E 10 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=164.2.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=75.0. Analyst: Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=92.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=58.0.
ISC III 29 09 16 18.6–.94 38.99N–.02 26.03E–.02 15–8 76 0-2
CSEM III 29 09 16 18.9–.17 39.00N 26.02E 10 2.5L ¶16872592
ISCJB III 29 09 16 18.9–.53 38.99N–.02 26.02E–.03 8–4 2.5L
THE III 29 09 16 19.3 39.00N 26.09E 13–0 2.4L
ATH III 29 09 16 19.0 39.00N 26.07E 17–2 2.5L
DDA III 29 09 16 19.0 39.02N 26.06E 10 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=166.1.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=82.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=258.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC IV 01 01 17 06.0–.88 38.23N–.02 26.67E–.03 8–8 58 0-2
ISCJB IV 01 01 17 05.9–.50 38.21N–.03 26.67E–.03 2–5 ¶16647920
DDA IV 01 01 17 05.2 38.21N 26.61E 13 2.7
ISK IV 01 01 17 05.7 38.24N 26.67E 5 2.8
CSEM IV 01 01 17 06.0–.21 38.22N 26.65E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=33.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=54.0.
ATH IV 02 18 21 26.8 38.91N 26.28E 10–31 1.6L
CSEM IV 02 18 21 26.8 38.91N 26.28E 10 1.6L ¶600913744
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=1.1km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 04 08 34 05.2–.86 39.00N–.02 26.06E–.02 16–7 82 0-2
ATH IV 04 08 34 05.0 39.01N 26.05E 23–1 2.3L ¶16648076
ISK IV 04 08 34 04.7 39.01N 26.10E 3 2.7
DDA IV 04 08 34 04.9 39.05N 26.02E 7 2.8L
ISCJB IV 04 08 34 05.4–.49 39.00N–.02 26.06E–.04 7–4 2.8L
CSEM IV 04 08 34 05.7–.15 39.00N 26.06E 10 2.3L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=68.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=164.4.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=72.0.
ISC IV 04 22 54 40.9–1.1 40.34N–.03 25.68E–.03 19–2 27 0-1
ISCJB IV 04 22 54 40.9–.53 40.34N–.03 25.67E–.04 9–5 ¶600915918
CSEM IV 04 22 54 40.5–.28 40.33N 25.67E 15 1.3L
ATH IV 04 22 54 40.7 40.34N 25.68E 14–5 1.3L
DDA IV 04 22 54 42.3 40.33N 25.80E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=176.9.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.7km az=117.0.
ATH Event type ke. Error ellipse: s-maj=5.2km s-min=1.0km az=309.0.
ISC IV 07 07 33 43.5–.89 38.97N–.02 26.48E–.02 13–8 117 0-7
DDA IV 07 07 33 42.6 38.98N 26.47E 27 3.1L ¶16648240
ATH IV 07 07 33 42.6 38.98N 26.50E 25–1 3.1L
ISCJB IV 07 07 33 43.1–.39 38.97N–.02 26.49E–.03 6–3 3.1L
THE IV 07 07 33 43.4 38.96N 26.47E 1–1 2.9L
CSEM IV 07 07 33 43.6–.12 38.97N 26.49E 10 3.1L
ISK IV 07 07 33 43.0 38.99N 26.49E 14 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=1.0km az=257.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=151.3.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=230.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=64.0.
ISC IV 07 22 10 31.6–.89 38.17N–.02 26.72E–.02 11–7 105 0-3
CSEM IV 07 22 10 31.9–.14 38.17N 26.71E 5 3.2L ¶16648254
ISCJB IV 07 22 10 31.9–.38 38.18N–.02 26.72E–.03 8–3 3.2L
DDA IV 07 22 10 31.9 38.19N 26.72E 7 3.2L
ATH IV 07 22 10 31.4 38.17N 26.70E 31–1 2.5L
THE IV 07 22 10 32.3 38.18N 26.71E 14–2 2.6L
ISK IV 07 22 10 32.0 38.21N 26.76E 6 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=153.1.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=254.0.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=0.6km az=237.0.
ISC IV 08 00 41 26.3–.97 39.47N–.03 25.94E–.05 12 22 0-2
ISK IV 08 00 41 25.7 39.49N 25.93E 8 2.7 ¶16648299
ISCJB IV 08 00 41 26.1–.73 39.47N–.03 25.93E–.08 12 2.7
CSEM IV 08 00 41 26.2–.15 39.48N 25.93E 10 2.7
DDA IV 08 00 41 28.2 39.53N 26.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.7km az=11.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=97.0.
ISC IV 10 04 36 26.8–1.3 40.45N–.04 25.87E–.07 11 18 0-1
ISCJB IV 10 04 36 27.3–1.4 40.36N–.04 25.8E–.10 11 ¶16648418
DDA IV 10 04 36 28.5 40.32N 25.92E 7 2.6
CSEM IV 10 04 36 29.3–.29 40.45N 25.90E 15 2.4
ISK IV 10 04 36 29.3 40.45N 25.93E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.0km az=8.7.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.5km az=105.0.
ISC IV 10 22 52 08.1–.85 40.33N–.02 25.88E–.02 15–6 77 0-2
ATH IV 10 22 52 07.7 40.33N 25.84E 28–0 1.7L ¶16648435
ISCJB IV 10 22 52 08.0–.38 40.33N–.02 25.84E–.03 8–3 1.7L
CSEM IV 10 22 52 08.1–.10 40.32N 25.85E 10 2.8
ISK IV 10 22 52 08.4 40.32N 25.95E 8 2.8
DDA IV 10 22 52 08.6 40.30N 25.92E 7 2.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=148.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=86.0.
ISC IV 10 22 53 32.1–.80 40.35N–.02 25.86E–.02 13–6 118 0-3
ATH IV 10 22 53 31.9 40.32N 25.84E 26–0 1.9L ¶16648436
CSEM IV 10 22 53 32.4–.09 40.31N 25.85E 8 2.8
ISCJB IV 10 22 53 32.3–.35 40.33N–.02 25.86E–.02 8–3 2.8
THE IV 10 22 53 32.5 40.32N 25.88E 12–0 1.9L
ISK IV 10 22 53 32.4 40.31N 25.95E 3 2.8
DDA IV 10 22 53 33.5 40.28N 26.04E 7 2.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=3.0km az=179.2.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=52.0.
ISC IV 11 04 34 07.6–1.2 38.99N–.02 26.07E–.03 11–10 42 0-2
ISCJB IV 11 04 34 08.9–.62 39.01N–.03 26.09E–.05 6–5 ¶16648487
ATH IV 11 04 34 08.6 38.99N 26.09E 18–3 1.6L
CSEM IV 11 04 34 08.4–.22 38.97N 26.08E 8 2.7
ISK IV 11 04 34 08.6 39.05N 26.13E 6 2.7
DDA IV 11 04 34 09.1 39.03N 26.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=153.2.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.5km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=61.0.
ATH IV 11 15 32 16.7 40.97N 24.68E 12–3 1.7L
CSEM IV 11 15 32 16.7 40.97N 24.68E 12 1.7L ¶600916094
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=0.7km az=351.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISK IV 12 03 02 47.5 40.07N 25.86E 14 2.5
CSEM IV 12 03 02 47.5 40.07N 25.86E 14 2.5 ¶16648547
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 12 23 45 09.5–1.0 38.87N–.04 26.26E–.04 11 21 0-2
ISCJB IV 12 23 45 09.4–.70 38.88N–.04 26.28E–.06 11 ¶16648581
CSEM IV 12 23 45 09.8–.11 38.88N 26.29E 11–1 2.7
ISK IV 12 23 45 09.2 38.90N 26.28E 11 2.7
DDA IV 12 23 45 09.7 38.89N 26.25E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.3km az=152.5.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=60.0.
THE IV 15 17 40 01.2 39.28N 23.93E 12–1 2.1L
ATH IV 15 17 40 01.5 39.27N 23.92E 12–3 2.0L ¶16881565
CSEM IV 15 17 40 01.7–.26 39.27N 23.92E 2 2.1L
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.4km az=178.0.
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=0.9km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=16.0.
DDA IV 15 21 33 59.0 38.42N 26.64E 4 2.1
¶601583510
ISC IV 18 19 36 41.1–.97 38.66N–.01 26.36E–.02 13–8 125 0-3
DDA IV 18 19 36 40.6 38.67N 26.37E 25 3.0 ¶16648945
ATH IV 18 19 36 40.9 38.67N 26.38E 25–1 2.8L
THE IV 18 19 36 41.3 38.66N 26.41E 0–1 2.9L
ISCJB IV 18 19 36 41.5–.41 38.68N–.02 26.41E–.03 7–3 2.9L

ISK IV 18 19 36 41.7 38.67N 26.45E 10 2.9L
CSEM IV 18 19 36 41.8–.11 38.68N 26.42E 10 3.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=259.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=284.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=167.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=77.0.
ISC IV 19 14 19 17.4–.93 39.56N–.02 25.46E–.02 15–8 52 0-2
ATH IV 19 14 19 16.9 39.57N 25.46E 23–1 1.8L ¶16881633
CSEM IV 19 14 19 17.8–.29 39.57N 25.47E 10 1.8L
THE IV 19 14 19 17.2 39.56N 25.47E 15–4 2.0L
ISCJB IV 19 14 19 18.2–.47 39.58N–.03 25.46E–.05 16–7 2.0L
DDA IV 19 14 19 31.6 39.86N 26.69E 7 2.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=85.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=5.0km az=45.0.
THE Event type ke. Error ellipse: s-maj=7.5km s-min=0.9km az=229.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=148.8.
ISC IV 22 07 50 40.7–.92 40.11N–.01 24.88E–.01 7–6 3.9b,3.6s 677 0-119
IDC IV 22 07 50 38.9–.95 40.07N 24.74E 0 3.9,3.8L ¶16452794
ISCJB IV 22 07 50 39.8–.40 40.13N–.01 24.86E–.01 8–3 3.9b,3.5s
NEIC IV 22 07 50 39.9 40.12N 24.89E 26 4.4L,4.3b
ATH IV 22 07 50 39.9 40.11N 24.90E 27–0 4.3L,4.3b
ISK IV 22 07 50 40.9 40.08N 24.94E 7 4.4L,4.3b
THE IV 22 07 50 40.9 40.11N 24.89E 11–0 4.2L,4.3b
SOF IV 22 07 50 40.9 40.24N 24.90E 4 4.1,4.3b
CSEM IV 22 07 50 41.0–.07 40.11N 24.85E 10 4.2b,4.3b
BJI IV 22 07 50 41.9 40.10N 24.90E 26 4.8s,4.7
MOS IV 22 07 50 42.2–1.2 40.21N 24.92E 33 4.4b,4.7
DDA IV 22 07 50 44.8 40.20N 25.30E 40 4.0L,4.7
ISC Event type fe.
IDC Error ellipse: s-maj=18.4km s-min=13.1km az=23.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=7.4.
NEIC Event type fe. Felt at Drama, Greece. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=49.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=10.0.
MOS Error ellipse: s-maj=5.6km s-min=4.6km az=84.0.
ISC IV 23 20 16 41.8–.85 38.54N–.02 26.76E–.02 13–7 96 0-3
ISCJB IV 23 20 16 41.9–.39 38.55N–.02 26.76E–.03 3–4 ¶16649219
ATH IV 23 20 16 41.5 38.55N 26.75E 28–2 2.8L
ISK IV 23 20 16 41.2 38.53N 26.79E 5 3.0
DDA IV 23 20 16 41.8 38.55N 26.76E 7 3.1L
CSEM IV 23 20 16 42.2–.11 38.52N 26.76E 5 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=160.4.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=249.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=56.0.
ISC IV 23 22 22 14.4–.91 38.10N–.01 26.80E–.02 9–7 3.7b 319 0-65
DDA IV 23 22 22 12.8 38.07N 26.75E 28 3.9L ¶16649223
ISK IV 23 22 22 13.5 38.10N 26.76E 5 3.9L
ISCJB IV 23 22 22 13.9–.35 38.10N–.01 26.76E–.02 12–2 3.5b
IDC IV 23 22 22 13.4–1.1 38.09N 26.87E 0 3.6b,3.6
ATH IV 23 22 22 13.1 38.06N 26.79E 28–1 3.8L,3.6
CSEM IV 23 22 22 13.9–.09 38.09N 26.77E 5 3.9L,3.6
THE IV 23 22 22 14.0 38.11N 26.83E 3–1 3.6L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=139.8.
IDC Error ellipse: s-maj=24.1km s-min=15.1km az=107.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=245.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=223.0.
ISC IV 23 23 25 01.0–.96 38.10N–.03 26.79E–.03 12–8 40 0-2
ISK IV 23 23 25 00.9 38.11N 26.82E 6 2.5 ¶16649225
DDA IV 23 23 25 00.6 38.07N 26.77E 7 2.8
CSEM IV 23 23 25 01.1–.30 38.08N 26.80E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=53.0.
ISC IV 23 23 32 28.1–.92 38.07N–.02 26.77E–.02 11–8 118 0-3
ISCJB IV 23 23 32 28.0–.42 38.07N–.02 26.77E–.03 5–3 ¶16649226
CSEM IV 23 23 32 27.8–.16 38.06N 26.76E 2 3.0
THE IV 23 23 32 27.8 38.10N 26.77E 5–1 2.5L
ISK IV 23 23 32 27.8 38.09N 26.80E 5 3.1
DDA IV 23 23 32 28.1 38.08N 26.78E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=144.9.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=243.0.
ISC IV 26 00 07 07.2–1.0 38.74N–.03 26.69E–.04 13–12 26 0-2
ISK IV 26 00 07 06.5 38.74N 26.69E 9 2.4 ¶16649399
ISCJB IV 26 00 07 07.2–.58 38.75N–.03 26.68E–.05 4–9 2.4
CSEM IV 26 00 07 07.3–.25 38.74N 26.68E 8 2.8
DDA IV 26 00 07 09.3 38.56N 26.87E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.8km az=175.7.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.8km az=77.0.
ISC IV 27 21 28 40.1–.85 38.39N–.04 26.84E–.03 13–6 38 0-1
DDA IV 27 21 28 39.9 38.40N 26.84E 7 2.6 ¶16649466
ISCJB IV 27 21 28 40.5–.48 38.40N–.03 26.82E–.03 6–6 2.6
CSEM IV 27 21 28 40.2–.16 38.38N 26.79E 8 2.5
ISK IV 27 21 28 40.3 38.39N 26.84E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=170.2.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=32.0.
ISC IV 28 06 02 53.3–.85 38.34N–.02 26.41E–.02 15–6 92 0-3
ISK IV 28 06 02 52.1 38.30N 26.41E 5 2.7 ¶16649502
ATH IV 28 06 02 53.0 38.34N 26.38E 31–1 2.6L
DDA IV 28 06 02 53.8 38.36N 26.46E 16 3.1L
ISCJB IV 28 06 02 53.5–.39 38.34N–.02 26.40E–.03 13–2 3.1L
CSEM IV 28 06 02 53.2–.13 38.32N 26.40E 12 3.1L
THE IV 28 06 02 54.3 38.34N 26.40E 18–0 2.8L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=239.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=147.5.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=63.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=269.0.
ISC IV 28 20 33 49.6–1.1 40.38N–.03 25.79E–.02 13–10 44 0-2
ISK IV 28 20 33 49.4 40.34N 25.78E 8 2.7 ¶16649516
DDA IV 28 20 33 49.1 40.37N 25.83E 6 2.7
ISCJB IV 28 20 33 50.2–.45 40.35N–.03 25.79E–.03 7–6 2.7
ATH IV 28 20 33 50.5 40.35N 25.79E 11–4 1.4L
CSEM IV 28 20 33 50.2–.22 40.34N 25.81E 8 1.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=40.9.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.1km az=296.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=123.0.
ISC IV 29 02 27 21.6–1.0 38.28N–.02 26.46E–.02 19–2 113 0-3
DDA IV 29 02 27 21.6 38.31N 26.44E 23 3.2L ¶16649559
THE IV 29 02 27 22.8 38.32N 26.51E 11–2 3.1L
CSEM IV 29 02 27 22.6–.15 38.26N 26.47E 2 3.2L
ISK IV 29 02 27 22.7 38.27N 26.52E 6 3.1
ATH IV 29 02 27 22.2 38.26N 26.42E 32–1 2.9L
ISCJB IV 29 02 27 22.9–.44 38.27N–.02 26.47E–.03 10–3 2.9L
ISC Event type ke.
THE Event type ke.
CSEM Event type ke.
ATH Event type ke.
ISCJB Event type ke.
ISC IV 30 19 53 39.9–.93 38.87N–.01 26.75E–.02 10–7 213 0-4
ATH IV 30 19 53 38.8 38.89N 26.82E 25–1 3.3L ¶16649680
DDA IV 30 19 53 39.6 38.92N 26.81E 7 3.4L
ISCJB IV 30 19 53 39.7–.34 38.87N–.01 26.74E–.02 10–2 3.4L
ISK IV 30 19 53 39.4 38.87N 26.77E 9 3.4L
THE IV 30 19 53 40.3 38.86N 26.71E 7–1 3.0L
CSEM IV 30 19 53 40.1–.08 38.87N 26.74E 10 3.4L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.1km az=249.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=155.2.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=261.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=75.0.
ISC IV 30 22 20 22.2–.99 38.88N–.02 26.77E–.02 9–8 109 0-2
ISK IV 30 22 20 21.7 38.89N 26.78E 8 2.9 ¶16649684
ISCJB IV 30 22 20 22.2–.42 38.89N–.02 26.77E–.03 8–3 2.9
DDA IV 30 22 20 22.7 38.89N 26.77E 7 3.1L
THE IV 30 22 20 22.4 38.89N 26.77E 2–2 2.1L
CSEM IV 30 22 20 22.3–.08 38.88N 26.76E 10 2.9
ATH IV 30 22 20 22.4 38.86N 26.67E 31–1 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=149.1.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=235.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=60.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.0km az=256.0.
ISC V 02 05 00 01.3–1.0 38.87N–.01 26.72E–.02 9–9 151 0-3
DDA V 02 05 00 00.9 38.90N 26.76E 29 2.9 ¶16853119
ISCJB V 02 05 00 01.8–.41 38.90N–.01 26.73E–.03 6–3 2.9
THE V 02 05 00 01.9 38.88N 26.72E 5–1 2.8L
CSEM V 02 05 00 01.9–.11 38.88N 26.74E 8 3.3
ATH V 02 05 00 01.2 38.89N 26.76E 25–3 2.7L
ISK V 02 05 00 02.1 38.93N 26.77E 7 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=163.9.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.5km az=246.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=67.0.
ATH Event type ke. Error ellipse: s-maj=5.4km s-min=1.4km az=264.0.
ISC V 02 18 25 26.0–1.0 39.28N–.03 25.82E–.04 19–2 28 0-1
DDA V 02 18 25 25.4 39.26N 25.79E 7 2.5 ¶600916670
ISCJB V 02 18 25 26.5–.68 39.28N–.03 25.82E–.06 13–4 2.5
ATH V 02 18 25 26.4 39.29N 25.82E 14–2 1.9L
CSEM V 02 18 25 26.4–.19 39.27N 25.81E 12 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=160.4.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=146.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=48.0.
ISC V 02 20 56 22.5–.92 39.76N–.02 25.55E–.02 14–8 50 0-2
ISCJB V 02 20 56 22.5–.54 39.75N–.03 25.55E–.03 4–5 ¶16881916
ATH V 02 20 56 22.4 39.77N 25.54E 19–5 1.7L
THE V 02 20 56 22.5 39.77N 25.56E 5–2 1.9L
CSEM V 02 20 56 22.7–.22 39.75N 25.54E 10 1.7L
DDA V 02 20 56 29.6 39.81N 26.28E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=44.4.
ATH Event type ke. Error ellipse: s-maj=5.8km s-min=1.0km az=267.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.5km az=314.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=52.0.
ISC V 03 03 35 47.5–1.0 38.92N–.03 26.85E–.03 8–9 34 0-2
ISCJB V 03 03 35 47.4–.67 38.90N–.02 26.88E–.06 1–7 ¶16853162
CSEM V 03 03 35 47.6–.12 38.90N 26.89E 2 2.7
DDA V 03 03 35 47.9 38.88N 26.74E 7 2.6
ISK V 03 03 35 47.4 38.93N 26.89E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.0km az=177.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=85.0.
ISC V 03 12 42 08.5–.91 40.56N–.04 25.71E–.04 12–8 23 0-1
ISCJB V 03 12 42 08.9–.63 40.55N–.04 25.70E–.04 9–5 ¶600916689
CSEM V 03 12 42 08.9–.13 40.55N 25.72E 5 1.4L
ATH V 03 12 42 09.3 40.57N 25.68E 6–14 1.4L
DDA V 03 12 42 09.7 40.53N 25.77E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=144.7.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=155.0.
ATH Event type ke. Error ellipse: s-maj=14.6km s-min=1.3km az=175.0.
ISC V 04 00 31 03.2–1.1 38.85N–.03 24.91E–.02 18–3 82 1-3
ATH V 04 00 31 02.5 38.85N 24.92E 27–1 2.3L ¶16853197
DDA V 04 00 31 02.9 38.97N 25.01E 7 2.8
ISCJB V 04 00 31 03.8–.50 38.87N–.03 24.93E–.03 25–5 2.8
CSEM V 04 00 31 03.8–.13 38.84N 24.92E 20 2.3L
ISK V 04 00 31 04.6 39.09N 24.94E 12 3.2
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=41.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.0km az=156.2.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.4km az=154.0.
DDA V 06 06 57 36.5 38.28N 26.57E 7 2.3 ¶602861510
ISC V 07 07 44 59.6–1.0 38.37N–.03 25.30E–.02 14–10 67 1-3
ISK V 07 07 44 58.9 38.35N 25.28E 10 2.8 ¶16853311
ISCJB V 07 07 44 59.6–.83 38.37N–.03 25.32E–.03 10–7 2.8
ATH V 07 07 44 59.6 38.38N 25.37E 39–3 2.2L
CSEM V 07 07 44 59.5–.18 38.36N 25.29E 10 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.4km az=160.4.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.0km az=63.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.4km az=163.0.
ISC V 09 18 36 00.5–.95 38.28N–.03 26.74E–.02 14–7 32 0-1
ISK V 09 18 35 59.7 38.26N 26.78E 5 2.5 ¶16853432
ISCJB V 09 18 36 01.6–.47 38.27N–.03 26.79E–.03 5–7 2.5
CSEM V 09 18 36 01.3–.24 38.26N 26.76E 5 2.6
DDA V 09 18 36 01.3 38.26N 26.78E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=18.3.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=20.0.
ISC V 10 06 46 46.0–1.2 38.85N–.03 26.82E–.04 18–6 29 0-1
DDA V 10 06 46 45.8 38.87N 26.91E 7 2.7 ¶16853448
ISK V 10 06 46 45.9 38.86N 26.82E 16 2.5
CSEM V 10 06 46 46.4–.21 38.86N 26.83E 12 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=108.0.
ISC V 11 10 56 45.8–.91 40.29N–.02 25.28E–.02 13–8 72 0-2
ISCJB V 11 10 56 45.7–.49 40.29N–.02 25.29E–.03 8–5 ¶16853480
ATH V 11 10 56 45.5 40.29N 25.26E 15–6 2.3L
ISK V 11 10 56 45.8 40.24N 25.34E 5 2.4L
THE V 11 10 56 46.1 40.29N 25.30E 12–2 2.2L
CSEM V 11 10 56 46.0–.15 40.28N 25.29E 10 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=156.4.
ATH Event type ke. Error ellipse: s-maj=6.4km s-min=1.0km az=60.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.4km az=120.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=177.0.
ISC V 11 10 57 29.0–.85 39.27N–.02 23.12E–.02 12–5 65 0-2
ISCJB V 11 10 57 29.4–.40 39.27N–.02 23.13E–.03 8–3 ¶16882083
CSEM V 11 10 57 29.3–.13 39.27N 23.12E 5 2.5L
THE V 11 10 57 29.4 39.28N 23.13E 12–1 2.5L
ATH V 11 10 57 29.1 39.27N 23.13E 11–2 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.7km az=169.9.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=88.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=19.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=14.0.
ATH V 12 22 19 23.4 39.14N 24.18E 3–4 1.5L
CSEM V 12 22 19 23.4 39.14N 24.18E 3 1.5L ¶600916916
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=0.9km az=93.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 14 10 11 30.3–.83 38.22N–.02 25.96E–.02 14–6 111 0-3

DDA V 14 10 11 28.4 38.24N 25.88E 10 3.1 ¶16853555
CSEM V 14 10 11 29.9–.17 38.21N 25.92E 2 2.8L
ATH V 14 10 11 29.8 38.23N 25.97E 24–1 2.7L
THE V 14 10 11 30.8 38.23N 26.02E 10–1 2.8L
ISCJB V 14 10 11 30.1–.58 38.23N–.02 25.93E–.03 7–4 2.8L
ISK V 14 10 11 31.1 38.23N 25.95E 5 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.6km az=80.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=83.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.5km az=68.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=138.4.
DDA V 14 10 25 34.8 38.23N 25.98E 7 2.7
¶602861694
DDA Event type ke.
ISC V 20 23 47 12.7–.83 40.86N–.03 25.97E–.02 7–6 67 0-2
ATH V 20 23 47 11.3 40.91N 26.08E 15–1 1.8L ¶16854162
ISCJB V 20 23 47 12.8–.46 40.89N–.03 26.01E–.03 5–3 1.8L
CSEM V 20 23 47 13.0–.15 40.89N 25.99E 5 1.8L
ISK V 20 23 47 13.7 40.90N 26.09E 6 2.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=7.0.
ISC V 23 10 27 40.4–1.0 38.40N–.02 25.30E–.01 15–8 175 1-5
DDA V 23 10 27 38.6 38.41N 25.21E 5 3.8L ¶16854732
ISK V 23 10 27 39.6 38.33N 24.86E 18 3.4L
ATH V 23 10 27 40.8 38.40N 25.31E 39–3 3.2L
CSEM V 23 10 27 41.8–.16 38.38N 25.26E 20 3.2L
THE V 23 10 27 42.5 38.40N 25.32E 25–2 3.4L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=76.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=155.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.6km az=117.0.
ISC V 30 17 10 43.4–1.0 38.63N–.02 25.78E–.03 19–3 57 0-2
CSEM V 30 17 10 42.9–.27 38.61N 25.70E 2 2.6L ¶16882638
ATH V 30 17 10 42.5 38.60N 25.65E 8–3 2.1L
DDA V 30 17 10 43.6 38.66N 25.85E 7 3.0
THE V 30 17 10 44.2 38.66N 25.85E 6–0 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.1km az=81.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=0.9km az=125.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=262.0.
ISC V 31 06 01 55.9–2.1 40.2N–.10 25.2E–.10 10 6 1-3
ISCJB V 31 06 01 55.8–1.9 40.15N–.10 25.2E–.10 10 ¶602862411
DDA V 31 06 01 56.6 40.31N 25.37E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=10.2km az=136.0.
ATH V 31 19 40 09.2 39.91N 23.45E 13–4 1.4L
CSEM V 31 19 40 09.2 39.91N 23.45E 13 1.4L ¶600917493
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.0km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 03 05 49 08.8–1.1 40.18N–.04 25.18E–.05 13–10 20 0-2
ISCJB VI 03 05 49 09.0–.77 40.19N–.04 25.18E–.06 10–6 ¶600917568
ATH VI 03 05 49 08.3 40.16N 25.20E 26–3 1.9L
DDA VI 03 05 49 09.4 40.32N 25.32E 7 2.8
CSEM VI 03 05 49 09.0–.22 40.18N 25.18E 12 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.0km az=166.3.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.5km az=126.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.8km az=122.0.
ISC VI 04 03 40 40.2–1.0 38.91N–.02 26.52E–.03 8–9 44 0-2
DDA VI 04 03 40 39.1 38.91N 26.43E 7 2.7L ¶17555430
ISCJB VI 04 03 40 40.0–.48 38.90N–.02 26.47E–.04 7–4 2.7L
CSEM VI 04 03 40 40.5–.22 38.91N 26.50E 10 2.7
ISK VI 04 03 40 40.2 38.93N 26.51E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.5km az=171.7.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.2km az=93.0.
ISC VI 04 06 24 03.8–1.0 38.17N–.05 26.66E–.03 15–7 22 0-2
ISCJB VI 04 06 24 03.5–.78 38.15N–.06 26.66E–.05 15–5 ¶17555432
ISK VI 04 06 24 03.3 38.16N 26.66E 14 2.6
CSEM VI 04 06 24 03.4–.33 38.13N 26.65E 10 2.6
DDA VI 04 06 24 04.0 38.17N 26.67E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.1km az=23.9.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=3.6km az=13.0.
THE VI 05 06 22 33.8 39.31N 23.22E 4–0 1.8L
ATH VI 05 06 22 33.8 39.31N 23.21E 4–0 1.6L ¶16882825
CSEM VI 05 06 22 33.9–.17 39.29N 23.20E 0–2 1.6L
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=24.0.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=46.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=28.0.
ISC VI 08 00 56 57.6–1.1 38.40N–.04 26.90E–.07 10–15 20 0-1
ISCJB VI 08 00 56 57.5–.60 38.39N–.04 26.91E–.05 8–10 ¶17555649
DDA VI 08 00 56 57.2 38.40N 26.90E 7 2.6
CSEM VI 08 00 56 57.3–.34 38.38N 26.90E 5 2.4
ISK VI 08 00 56 57.2 38.44N 27.02E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.0km az=152.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=6.6km az=37.0.
ISC VI 09 07 26 54.3–.92 40.44N–.02 25.79E–.02 15–8 66 0-2
ISCJB VI 09 07 26 54.8–.42 40.42N–.02 25.80E–.03 6–4 ¶16882952
CSEM VI 09 07 26 54.8–.11 40.42N 25.79E 5 2.0L
THE VI 09 07 26 55.1 40.41N 25.77E 9–1 2.0L
ISK VI 09 07 26 55.0 40.43N 25.85E 7 2.7
DDA VI 09 07 26 56.4 40.36N 25.96E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=27.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=137.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=151.0.
ISC VI 10 08 42 23.6–.86 38.19N–.03 26.65E–.03 13–6 35 0-2
ATH VI 10 08 42 22.8 38.18N 26.68E 26–1 2.2L ¶600917763
ISCJB VI 10 08 42 23.7–.48 38.18N–.03 26.66E–.05 11–4 2.2L
DDA VI 10 08 42 23.7 38.16N 26.66E 7 2.7
CSEM VI 10 08 42 24.0–.14 38.18N 26.66E 15 2.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.5km az=137.5.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.4km az=54.0.
ISC VI 10 23 55 51.6–.94 39.81N–.02 25.62E–.03 12–8 80 0-2
ATH VI 10 23 55 50.5 39.77N 25.53E 31–3 1.8L ¶16882978
ISK VI 10 23 55 50.9 39.80N 25.64E 12 2.9
ISCJB VI 10 23 55 51.2–.49 39.81N–.02 25.61E–.04 5–4 2.9
CSEM VI 10 23 55 51.4–.14 39.81N 25.61E 10 1.8L
THE VI 10 23 55 51.7 39.81N 25.62E 3–1 1.8L
DDA VI 10 23 55 52.0 39.83N 25.64E 6 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.3km s-min=1.2km az=240.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=170.4.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=83.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.4km az=348.0.
THE VI 14 15 43 53.1 40.60N 24.11E 12–2 2.0L
ATH VI 14 15 43 52.0 40.58N 24.11E 26–1 1.8L ¶16883035
CSEM VI 14 15 43 52.8–.26 40.57N 24.11E 18–2 1.8L
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.6km az=287.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=337.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=3.0.

ISC VI 15 23 11 32.8–.85 38.47N–.02 26.81E–.02 12–7 115 0-2
ATH VI 15 23 11 31.7 38.44N 26.81E 33–7 2.8L ¶17555985
DDA VI 15 23 11 31.6 38.47N 26.78E 22 3.3L
ISCJB VI 15 23 11 32.4–.35 38.48N–.02 26.82E–.02 5–3 3.3L
CSEM VI 15 23 11 32.5–.10 38.46N 26.80E 5 3.3L
ISK VI 15 23 11 32.1 38.47N 26.82E 7 3.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.1km s-min=1.6km az=233.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=165.7.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=57.0.
ISC VI 16 02 20 45.6–1.1 39.93N–.01 23.81E–.01 4–8 3.3b 356 0-43
BEO VI 16 02 20 33.8–1.5 39.12N 24.22E 0 3.5 ¶16730629
ISK VI 16 02 20 44.5 39.86N 23.72E 5 3.4L
ISCJB VI 16 02 20 45.5–.46 39.93N–.01 23.81E–.02 5–3 3.3b
IDC VI 16 02 20 45.1–1.1 39.87N 23.72E 0 3.4,3.4
ATH VI 16 02 20 45.7 39.94N 23.82E 26–1 3.3L,3.4
CSEM VI 16 02 20 46.3–.19 39.93N 23.77E 6–1 3.3L,3.4
THE VI 16 02 20 46.5 39.93N 23.82E 7–0 3.3L,3.4
SOF VI 16 02 20 46.9 40.02N 23.90E 8 3.5,3.4
ISC Event type ke.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=29.5.
IDC Error ellipse: s-maj=22.5km s-min=15.5km az=113.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=320.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=121.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=283.0.
ISC VI 19 16 16 11.8–.96 38.47N–.02 26.79E–.02 8–9 56 0-2
ISCJB VI 19 16 16 11.7–.41 38.47N–.02 26.77E–.03 6–5 ¶16883229
DDA VI 19 16 16 11.6 38.45N 26.79E 7 2.4
ISK VI 19 16 16 11.6 38.50N 26.78E 9 2.8
CSEM VI 19 16 16 12.0–.12 38.47N 26.76E 10 2.8
THE VI 19 16 16 13.3 38.43N 26.69E 27–4 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=19.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=39.0.
THE Event type ke. Error ellipse: s-maj=5.0km s-min=0.9km az=249.0.
ISC VI 19 17 34 31.7–.93 38.78N–.01 26.73E–.02 14–7 186 0-7
ATH VI 19 17 34 31.5 38.77N 26.80E 33–2 2.5L ¶16883232
ISCJB VI 19 17 34 31.8–.47 38.81N–.01 26.76E–.02 12–3 2.5L
DDA VI 19 17 34 31.2 38.82N 26.81E 24 3.4L
ISK VI 19 17 34 31.7 38.82N 26.76E 14 3.1
CSEM VI 19 17 34 32.4–.08 38.79N 26.76E 15 3.1
THE VI 19 17 34 33.4 38.80N 26.75E 19–2 2.4L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=259.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=178.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=68.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=1.0km az=244.0.
ISC VI 20 22 49 37.9–.90 39.51N–.01 25.98E–.03 13–7 72 0-2
ISCJB VI 20 22 49 37.9–.43 39.52N–.02 25.95E–.04 6–4 ¶17556143
ATH VI 20 22 49 37.8 39.51N 25.98E 17–2 1.9L
DDA VI 20 22 49 37.4 39.48N 26.08E 7 2.8
ISK VI 20 22 49 37.1 39.56N 25.90E 6 2.6
CSEM VI 20 22 49 38.0–.14 39.52N 25.98E 8 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=169.8.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.8km az=200.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=86.0.
ISC VI 23 02 33 05.4–.84 40.40N–.02 25.98E–.03 17–7 58 0-2
DDA VI 23 02 33 05.0 40.25N 26.05E 7 2.8 ¶17556214
ISCJB VI 23 02 33 05.6–.41 40.39N–.02 25.96E–.04 10–4 2.8
ATH VI 23 02 33 05.1 40.40N 25.94E 21–9 1.5L
CSEM VI 23 02 33 05.6–.12 40.39N 25.95E 15 2.7
ISK VI 23 02 33 05.5 40.37N 26.00E 14 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=25.7.
ATH Event type ke. Error ellipse: s-maj=9.8km s-min=1.1km az=304.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=113.0.
ISC VI 24 15 13 55.0–1.1 39.24N–.02 24.27E–.02 19–3 186 1-3
ATH VI 24 15 13 54.8 39.24N 24.27E 33–2 2.6L ¶16881014
ISCJB VI 24 15 13 55.8–.43 39.25N–.02 24.27E–.03 25–4 2.6L
CSEM VI 24 15 13 55.0–.08 39.25N 24.27E 15 2.7L
THE VI 24 15 13 56.1 39.25N 24.25E 20–1 2.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.7km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=22.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=113.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=278.0.
ISC VI 29 06 34 05.4–.93 38.83N–.01 26.19E–.02 12–8 227 0-9
DDA VI 29 06 34 03.9 38.82N 26.14E 26 3.8L ¶16881109
ISCJB VI 29 06 34 04.3–.41 38.82N–.01 26.14E–.02 6–3 3.8L
THE VI 29 06 34 04.7 38.81N 26.16E 0–1 3.5L
ISK VI 29 06 34 04.9 38.81N 26.20E 13 3.7L
ATH VI 29 06 34 04.4 38.81N 26.18E 28–1 3.6L
CSEM VI 29 06 34 05.3–.09 38.80N 26.17E 10 3.6L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=162.2.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=248.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=85.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=68.0.

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ISC I 01 00 39 10.2–1.4 39.15N–.05 43.94E–.08 31–5 28 0-3
DDA I 01 00 39 06.4 39.16N 44.13E 29 2.8 ¶16357740
ISK I 01 00 39 09.3 38.96N 43.66E 5 2.7
CSEM I 01 00 39 10.6–.33 38.97N 43.64E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=5.8km az=104.0.
ISK I 01 06 31 05.0 40.00N 39.71E 12 2.6
CSEM I 01 06 31 05.0 40.00N 39.71E 12 2.6 ¶16357742
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 01 08 12 58.3–1.3 38.66N–.03 35.75E–.05 8–13 25 1-2
DDA I 01 08 12 57.3 38.63N 35.73E 7 2.7 ¶16357745
CSEM I 01 08 12 58.4–.32 38.62N 35.85E 2 2.7
ISK I 01 08 12 59.1 38.63N 35.75E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.6km az=154.0.
ISC I 01 10 33 55.8–.90 38.07N–.02 28.93E–.02 13–7 46 0-2
ISCJB I 01 10 33 55.6–.47 38.08N–.02 28.93E–.03 4–5 ¶16357746
CSEM I 01 10 33 55.5–.22 38.06N 28.96E 10 2.8
DDA I 01 10 33 55.6 38.08N 28.95E 7 2.9
ISK I 01 10 33 55.3 38.06N 28.90E 9 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=140.1.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=89.0.
DDA Event type ke.
ISC I 01 12 11 21.7–1.1 39.84N–.03 32.98E–.04 8–8 24 0-1
CSEM I 01 12 11 21.1–.29 39.88N 32.99E 5 2.5 ¶16357748
DDA I 01 12 11 21.8 39.87N 33.25E 5 2.6
ISK I 01 12 11 21.0 39.87N 32.98E 5 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=57.0.
DDA Event type ke.
ISC I 01 13 13 36.4–1.2 38.07N–.02 40.17E–.03 3–10 51 0-3
ISCJB I 01 13 13 36.8–.58 38.07N–.03 40.17E–.04 1–6 ¶16357749

CSEM I 01 13 13 36.5–.32 38.10N 40.21E 5 2.8
DDA I 01 13 13 36.5 38.08N 40.14E 7 3.3
ISK I 01 13 13 36.2 38.06N 40.13E 5 2.8
NSSC I 01 13 13 37.1–1.1 38.12N 41.11E 38–6 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=149.6.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=5.6km az=45.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=6.6km s-min=9.7km az=-1.0.
ISC I 01 13 32 05.4–1.2 38.04N–.05 40.13E–.04 7–10 26 0-2
ISK I 01 13 32 04.0 38.07N 40.23E 5 2.6 ¶16357750
DDA I 01 13 32 05.0 38.07N 40.14E 6 2.7
CSEM I 01 13 32 05.0–.36 38.05N 40.19E 5 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=5.4km az=42.0.
ISC I 01 15 38 20.9–.93 40.60N–.03 30.36E–.03 9–6 31 0-1
CSEM I 01 15 38 20.5–.17 40.59N 30.38E 10 2.4 ¶16357751
ISK I 01 15 38 20.2 40.57N 30.35E 6 2.4
DDA I 01 15 38 21.8 40.69N 30.54E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=30.0.
DDA Event type ke.
ISC I 01 15 40 32.7–.88 40.14N–.02 29.45E–.02 12–7 54 0-2
ISK I 01 15 40 31.7 40.10N 29.45E 5 2.5 ¶16357752
DDA I 01 15 40 31.8 40.32N 28.92E 17 2.7
CSEM I 01 15 40 32.5–.18 40.13N 29.45E 5 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=53.0.
ISC I 01 17 16 30.6–.86 40.59N–.02 27.18E–.02 11–5 42 0-2
ISCJB I 01 17 16 30.7–.45 40.58N–.03 27.19E–.04 10–4 ¶16357755
CSEM I 01 17 16 30.7–.12 40.58N 27.18E 10 2.4
ISK I 01 17 16 30.3 40.59N 27.16E 10 2.4
DDA I 01 17 16 30.7 40.57N 27.24E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.8km az=173.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=43.0.
DDA Event type ke.
ISC I 01 17 22 40.3–.98 37.62N–.03 36.31E–.02 5–7 38 0-2
ISK I 01 17 22 39.6 37.60N 36.31E 9 2.7 ¶16357756
DDA I 01 17 22 39.8 37.65N 36.30E 5 2.7
CSEM I 01 17 22 40.1–.29 37.64N 36.27E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=6.6km az=164.0.
ISC I 01 21 31 02.8–.88 37.54N–.04 36.26E–.03 13–6 28 0-2
CSEM I 01 21 31 00.6–.39 37.77N 36.29E 15 2.6 ¶16357758
ISK I 01 21 31 02.1 37.54N 36.31E 19 2.5
ISCJB I 01 21 31 03.4–.59 37.54N–.03 36.27E–.04 6–5 2.5
DDA I 01 21 31 03.0 37.55N 36.27E 13 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=7.8km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=20.5.
DDA Event type ke.
ISC I 02 02 16 30.5–1.7 39.2N–.20 41.97E–.06 19–3 8 0-1
ISCJB I 02 02 16 30.8–1.4 39.1N–.10 42.00E–.06 16–20 ¶601608272
DDA I 02 02 16 31.2 39.30N 41.99E 20 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.6km s-min=7.2km az=172.4.
DDA Event type ke.
ISC I 02 02 24 41.8–1.1 39.96N–.02 38.38E–.02 10–10 47 0-1
CSEM I 02 02 24 41.9–.17 39.96N 38.40E 2 2.6 ¶16357761
DDA I 02 02 24 41.6 39.91N 38.41E 7 2.6
ISK I 02 02 24 41.2 39.98N 38.36E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=168.0.
DDA Event type ke.
ISC I 02 03 25 33.4–.94 37.75N–.03 27.86E–.05 23–6 35 0-1
ISK I 02 03 25 32.7 37.74N 27.88E 18 2.5 ¶16357762
ISCJB I 02 03 25 33.7–.58 37.75N–.03 27.83E–.07 21–6 2.5
CSEM I 02 03 25 33.4–.11 37.75N 27.85E 20 2.6
DDA I 02 03 25 33.4 37.72N 27.86E 23 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.4km az=178.5.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.2km az=90.0.
DDA Event type ke.
ISC I 02 03 33 00.9–.89 38.95N–.04 38.11E–.03 9 22 1-1
ISK I 02 03 33 00.3 38.93N 38.12E 10 2.5 ¶16357763
ISCJB I 02 03 33 01.4–.64 39.01N–.04 38.03E–.05 9 2.5
CSEM I 02 03 33 01.2–.33 38.98N 38.07E 5 2.5
DDA I 02 03 33 02.0 39.02N 38.09E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=39.9.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=6.9km az=162.0.
DDA Event type ke.
ISC I 02 06 37 44.0–.95 37.17N–.02 30.54E–.03 9–8 54 0-2
ISK I 02 06 37 43.8 37.21N 30.51E 7 2.9 ¶16357765
DDA I 02 06 37 43.8 37.18N 30.54E 7 3.1
ISCJB I 02 06 37 44.3–.46 37.20N–.03 30.50E–.04 4–5 3.1
CSEM I 02 06 37 44.1–.14 37.21N 30.50E 2 3.1
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=34.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=134.0.
ISK I 02 12 09 00.2 37.07N 35.93E 7 2.5
CSEM I 02 12 09 00.2 37.07N 35.93E 7 2.5 ¶16357768
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 02 12 50 24.2–1.2 38.66N–.02 43.24E–.03 1–11 35 0-2
ISK I 02 12 50 22.8 38.75N 43.49E 5 2.7 ¶16357769
CSEM I 02 12 50 23.9–.27 38.65N 43.22E 5 2.6
DDA I 02 12 50 23.1 38.61N 43.26E 19 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.8km az=69.0.
DDA Event type ke.
ISC I 02 15 35 40.9–1.0 38.55N–.04 36.40E–.06 9–8 12 0-1
ISCJB I 02 15 35 41.0–.64 38.56N–.03 36.37E–.07 8–5 ¶601608286
DDA I 02 15 35 40.7 38.55N 36.41E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.8km az=157.9.
DDA Event type ke.
ISC I 02 16 06 25.8–.92 37.56N–.02 38.58E–.02 9–8 68 0-3
DDA I 02 16 06 24.9 37.57N 38.60E 15 3.2 ¶16357770
ISK I 02 16 06 24.2 37.56N 38.59E 5 3.1
CSEM I 02 16 06 25.7–.20 37.56N 38.58E 2 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.6km az=159.0.
ISC I 02 17 25 14.2–1.2 38.37N–.06 38.96E–.03 11 16 0-1
ISCJB I 02 17 25 14.5–.82 38.38N–.08 38.94E–.05 11 ¶601608287
CSEM I 02 17 25 14.3–.23 38.44N 38.93E 10 2.6
DDA I 02 17 25 14.7 38.37N 38.91E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.2km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=4.5km az=168.0.
DDA Event type ke.
ISC I 02 17 59 58.4–1.0 39.50N–.02 26.05E–.03 7–10 50 0-2
ISCJB I 02 17 59 58.1–.54 39.48N–.02 25.97E–.04 9–4 ¶16357772
CSEM I 02 17 59 58.4–.18 39.50N 25.97E 10 2.7
ATH I 02 17 59 58.3 39.49N 26.05E 16–10 2.7
DDA I 02 17 59 59.0 39.54N 26.08E 6 2.7
ISK I 02 17 59 58.2 39.51N 26.00E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.6km az=5.5.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=93.0.
ATH Error ellipse: s-maj=2.3km s-min=2.6km az=-1.0.
DDA Event type ke.
ISC I 02 18 59 54.9–.84 40.44N–.02 26.25E–.02 15–6 87 0-3
ISCJB I 02 18 59 54.2–.53 40.44N–.02 26.19E–.03 9–4 ¶16357773
DDA I 02 18 59 54.1 40.38N 26.31E 5 2.8
ATH I 02 18 59 54.2 40.46N 26.21E 29–1 2.9
CSEM I 02 18 59 54.7–.16 40.42N 26.24E 10 3.0
ISK I 02 18 59 54.2 40.43N 26.23E 6 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=20.2.
DDA Event type ke.
ATH Error ellipse: s-maj=0.8km s-min=0.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=149.0.
ISC I 02 19 11 48.4–1.1 39.33N–.03 40.13E–.02 19–4 32 0-2
ISK I 02 19 11 47.0 39.37N 40.15E 23 2.6 ¶16357774
ISCJB I 02 19 11 48.8–.48 39.31N–.04 40.09E–.04 26–10 2.6
CSEM I 02 19 11 48.1–.38 39.33N 40.13E 15 2.7
DDA I 02 19 11 49.5 39.33N 40.10E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=14.7.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.7km az=157.0.
DDA Event type ke.
ISC I 02 19 51 20.0–1.3 38.76N–.05 40.05E–.03 1–16 18 0-1
CSEM I 02 19 51 20.4–.57 38.78N 40.03E 10 2.6 ¶601608290
DDA I 02 19 51 20.2 38.83N 40.07E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=19.7km s-min=11.3km az=24.0.
DDA Event type ke.
ISC I 02 20 06 26.8–.95 37.87N–.02 30.68E–.03 8–8 49 0-2
ISK I 02 20 06 25.9 37.86N 30.60E 20 2.8 ¶16357776
DDA I 02 20 06 26.7 37.91N 30.63E 7 2.8
CSEM I 02 20 06 26.5–.21 37.88N 30.63E 15 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=79.0.
ISC I 02 21 35 39.6–1.1 40.83N–.04 31.53E–.03 8–10 46 0-2
ISCJB I 02 21 35 38.7–.74 40.90N–.04 31.50E–.04 2–6 ¶16357777
ISK I 02 21 35 38.8 40.87N 31.48E 6 2.8
CSEM I 02 21 35 39.5–.25 40.84N 31.52E 10 2.7
DDA I 02 21 35 39.4 40.86N 31.53E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.8km az=161.1.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=166.0.
DDA Event type ke.
ISC I 03 01 59 42.5–1.1 39.17N–.03 40.27E–.03 6–10 39 0-2
ISK I 03 01 59 41.3 39.20N 40.30E 8 2.7 ¶16357781
ISCJB I 03 01 59 42.3–.53 39.18N–.03 40.26E–.04 2–6 2.7
CSEM I 03 01 59 42.3–.22 39.18N 40.26E 8 2.7
DDA I 03 01 59 42.6 39.17N 40.25E 6 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.5km az=41.8.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.3km az=52.0.
DDA Event type ke.
ISC I 03 05 09 54.3–1.1 39.02N–.02 35.79E–.03 2–10 55 0-2
ISK I 03 05 09 53.8 39.02N 35.85E 5 2.7 ¶16357783
DDA I 03 05 09 53.8 39.02N 35.80E 5 2.9
CSEM I 03 05 09 54.3–.16 39.02N 35.83E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=25.0.
ISC I 03 08 00 21.9–.83 37.85N–.02 27.32E–.02 14–6 96 0-4
ISCJB I 03 08 00 21.8–.39 37.86N–.02 27.30E–.03 3–4 ¶16357785
DDA I 03 08 00 21.6 37.84N 27.28E 19 3.1
ATH I 03 08 00 21.9 37.82N 27.34E 13–3 3.2
ISK I 03 08 00 21.8 37.86N 27.32E 6 3.1L
CSEM I 03 08 00 22.3–.17 37.85N 27.29E 10 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=44.0.
DDA Event type ke.
ATH Error ellipse: s-maj=2.0km s-min=2.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=58.0.
ISC I 03 10 04 33.9–1.1 37.62N–.03 41.59E–.02 7–10 37 0-2
CSEM I 03 10 04 33.7–.26 37.66N 41.63E 5 3.1 ¶16357786
ISK I 03 10 04 33.1 37.68N 41.64E 9 2.9
DDA I 03 10 04 34.3 37.65N 41.58E 3 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.3km az=6.0.
DDA Event type ke.
ISC I 03 10 43 08.0–1.4 37.12N–.06 27.93E–.06 10–10 20 0-1
ISCJB I 03 10 43 08.6–1.5 37.11N–.06 27.91E–.07 9–31 ¶16357788
ISK I 03 10 43 08.2 37.17N 27.88E 15 2.5
CSEM I 03 10 43 08.7–.60 37.11N 27.89E 10 2.5
DDA I 03 10 43 12.5 37.32N 27.59E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.5km az=140.9.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=8.9km az=150.0.
DDA Event type ke.
ISC I 03 14 04 22.8–.87 41.04N–.04 36.06E–.03 10–5 27 0-2
ISK I 03 14 04 19.2 41.26N 35.97E 11 2.5 ¶16357792
ISCJB I 03 14 04 23.4–.61 40.99N–.05 36.06E–.05 9–7 2.5
CSEM I 03 14 04 23.0–.33 40.99N 36.03E 10 2.5
DDA I 03 14 04 23.6 41.01N 36.04E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.5km az=31.8.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=7.2km az=34.0.
DDA Event type ke.
ISC I 03 14 53 45.3–.98 38.79N–.03 39.97E–.02 16–9 39 0-2
ISK I 03 14 53 43.9 38.82N 40.02E 19 2.8 ¶16357793
CSEM I 03 14 53 45.8–.39 38.78N 39.94E 23–5 2.8
DDA I 03 14 53 45.5 38.77N 39.99E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=8.1km az=24.0.
DDA Event type ke.
ISC I 03 15 01 22.6–.89 38.21N–.02 38.46E–.02 12–6 41 0-2
DDA I 03 15 01 21.8 38.21N 38.45E 2 2.8 ¶16357794
ISCJB I 03 15 01 22.6–.56 38.21N–.03 38.48E–.03 2–6 2.8
ISK I 03 15 01 22.0 38.19N 38.49E 4 2.6
CSEM I 03 15 01 23.0–.24 38.22N 38.47E 2 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.1km az=145.3.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=38.0.
ISC I 03 15 47 52.1–1.2 37.89N–.03 27.31E–.03 4–15 22 0-1
CSEM I 03 15 47 52.4–.46 37.91N 27.28E 2 2.6 ¶601608314
DDA I 03 15 47 52.8 37.85N 27.26E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=7.7km az=100.0.
DDA Event type ke.
ISC I 03 17 12 50.6–2.0 39.50N–.06 26.22E–.06 4–14 12 0-1
DDA I 03 17 12 51.2 39.47N 26.26E 7 2.6 ¶601608315
ISCJB I 03 17 12 53.3–.85 39.42N–.05 26.36E–.05 2–9 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC I 03 19 38 21.0–1.2 37.12N–.02 28.89E–.02 0–11 42 0-1
ISK I 03 19 38 19.7 37.12N 28.93E 7 2.8 ¶16357796
CSEM I 03 19 38 21.0–.30 37.10N 28.91E 8 2.8

DDA I 03 19 38 21.1 37.12N 28.91E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.7km az=34.0.
DDA Event type ke.
ISC I 03 23 08 38.1–.99 37.22N–.03 28.50E–.03 9–8 34 0-1
ISK I 03 23 08 36.6 37.23N 28.55E 12 2.6 ¶16357797
CSEM I 03 23 08 37.5–.30 37.26N 28.54E 12 2.6
DDA I 03 23 08 37.4 37.13N 28.48E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=6.1km az=169.0.
DDA Event type ke.
ISC I 04 06 03 54.5–.88 37.63N–.02 36.33E–.02 4–6 55 0-2
ISK I 04 06 03 53.9 37.62N 36.33E 5 2.7 ¶16357799
CSEM I 04 06 03 54.7–.18 37.63N 36.32E 2 3.0
DDA I 04 06 03 54.1 37.62N 36.32E 6 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=2.0.
DDA Event type ke.
ISC I 04 07 08 48.2–1.2 38.72N–.05 39.16E–.04 6–16 19 0-1
DDA I 04 07 08 47.8 38.74N 39.13E 7 2.6 ¶601608320
CSEM I 04 07 08 48.2–.37 38.68N 39.15E 10 2.6
ISCJB I 04 07 08 49.0–.71 38.66N–.05 39.16E–.08 10–10 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC I 04 08 42 18.3–.97 38.67N–.02 43.37E–.04 6–7 48 0-2
ISK I 04 08 42 17.6 38.72N 43.45E 5 2.8 ¶16357802
DDA I 04 08 42 17.4 38.68N 43.39E 5 3.0
CSEM I 04 08 42 18.5–.40 38.68N 43.40E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=4.7km az=75.0.
ISC I 04 09 55 16.8–1.0 37.03N–.03 28.81E–.03 13–9 30 0-1
ISK I 04 09 55 13.6 37.09N 28.92E 10 2.7 ¶16357804
ISCJB I 04 09 55 15.6–1.0 37.07N–.05 28.87E–.06 5–8 2.7
CSEM I 04 09 55 16.5–.30 36.93N 28.77E 8 3.0
DDA I 04 09 55 17.0 37.02N 28.79E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.8km az=41.9.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=5.2km az=36.0.
DDA Event type ke.
ISC I 04 11 15 50.4–.00 38.29N–.04 32.00E–.03 11 18 0-1
ISCJB I 04 11 15 50.5–.70 38.26N–.05 32.03E–.05 11 ¶601608333
CSEM I 04 11 15 50.5–.21 38.27N 32.00E 8 2.6
DDA I 04 11 15 50.3 38.28N 31.98E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.3km az=167.6.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=26.0.
DDA Event type ke.
ISC I 04 11 38 02.1–.94 38.59N–.02 37.49E–.02 3–6 49 0-2
ISK I 04 11 38 00.8 38.61N 37.47E 5 2.9 ¶16357807
CSEM I 04 11 38 01.7–.20 38.60N 37.47E 2 2.9
DDA I 04 11 38 01.6 38.61N 37.49E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=12.0.
DDA Event type ke.
ISC I 04 12 14 55.2–1.3 39.40N–.04 31.30E–.04 6–12 31 0-2
CSEM I 04 12 14 54.9–.27 39.43N 31.30E 2 2.7 ¶16357808
ISK I 04 12 14 55.0 39.34N 31.27E 8 2.7
DDA I 04 12 14 56.7 39.49N 31.49E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.9km az=25.0.
DDA Event type ke.
ISC I 04 12 48 29.5–.90 38.24N–.03 34.14E–.03 15–6 35 0-2
CSEM I 04 12 48 29.2–.21 38.26N 34.09E 10 2.5 ¶16357809
ISK I 04 12 48 29.1 38.29N 34.09E 14 2.5
DDA I 04 12 48 29.5 38.22N 34.13E 20 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.6km az=136.0.
DDA Event type ke.
ISC I 04 15 01 36.5–1.2 38.60N–.04 29.26E–.03 6 20 0-1
ISCJB I 04 15 01 36.1–.78 38.61N–.05 29.26E–.05 6 ¶601608346
CSEM I 04 15 01 36.2–.11 38.60N 29.27E 5 2.6
DDA I 04 15 01 36.1 38.60N 29.26E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=33.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=15.0.
DDA Event type ke.
ISC I 04 16 10 26.1–.88 37.85N–.02 27.30E–.03 11–8 45 0-2
DDA I 04 16 10 25.9 37.84N 27.29E 7 2.9 ¶16357812
ISCJB I 04 16 10 26.4–.43 37.84N–.03 27.28E–.03 9–4 2.9
CSEM I 04 16 10 26.6–.26 37.86N 27.31E 5 2.9
ISK I 04 16 10 26.1 37.86N 27.32E 7 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=143.8.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.4km az=74.0.
ISC I 04 16 23 43.1–.88 39.02N–.02 26.63E–.02 13–7 109 0-7
ATH I 04 16 23 42.6 39.02N 26.60E 27–1 3.3 ¶16357813
ISK I 04 16 23 42.7 39.04N 26.65E 15 3.2
ISCJB I 04 16 23 42.9–.47 39.04N–.02 26.62E–.03 10–3 3.2
DDA I 04 16 23 42.7 39.01N 26.68E 7 3.0
CSEM I 04 16 23 43.2–.09 39.03N 26.64E 12 3.2
THE I 04 16 23 43.9 39.02N 26.60E 9–0 3.1L
ISC Event type ke.
ATH Error ellipse: s-maj=1.6km s-min=3.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=145.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=250.0.
ISC I 04 18 41 14.0–1.4 38.60N–.03 43.64E–.05 6–9 47 0-2
ISK I 04 18 41 10.9 38.56N 43.77E 5 3.1 ¶16357816
DDA I 04 18 41 13.2 38.66N 43.69E 7 3.0
CSEM I 04 18 41 13.6–.47 38.62N 43.59E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.8km s-min=6.1km az=88.0.
ISC I 04 23 16 55.9–2.3 40.35N–.09 42.8E–.10 13 16 0-1
CSEM I 04 23 16 53.2–1.5 40.45N 42.49E 5 2.6 ¶601608349
DDA I 04 23 17 00.7 40.15N 43.18E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=30.0km s-min=8.3km az=124.0.
DDA Event type ke.
ISC I 05 00 10 04.9–.93 39.12N–.02 29.03E–.03 15–10 34 0-2
DDA I 05 00 10 04.4 39.12N 29.06E 7 2.8 ¶16357818
ISK I 05 00 10 04.4 39.11N 29.04E 5 2.7
CSEM I 05 00 10 05.0–.12 39.13N 29.04E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=104.0.
ISC I 05 00 23 32.2–.93 37.84N–.03 27.28E–.03 10–8 31 0-1
ISCJB I 05 00 23 32.0–.52 37.86N–.03 27.29E–.05 10–6 ¶16357819
DDA I 05 00 23 32.4 37.85N 27.22E 7 2.8
CSEM I 05 00 23 32.3–.34 37.87N 27.29E 5 2.8
ISK I 05 00 23 32.2 37.88N 27.36E 11 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=171.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=90.0.
ISC I 05 00 55 04.8–.93 37.86N–.03 27.28E–.03 10–9 34 0-1
ISCJB I 05 00 55 05.2–.46 37.85N–.03 27.29E–.04 11–5 ¶16357820
DDA I 05 00 55 05.3 37.85N 27.27E 7 2.7
CSEM I 05 00 55 05.1–.31 37.87N 27.27E 10 2.7
ISK I 05 00 55 05.2 37.88N 27.35E 12 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=141.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=81.0.
ISC I 05 02 45 17.1–1.1 37.17N–.04 36.36E–.04 11–13 12 0-1
DDA I 05 02 45 17.8 37.21N 36.41E 7 2.6 ¶601608351
ISC Event type ke.
DDA Event type ke.
ISC I 05 03 16 07.6–1.0 39.03N–.02 29.72E–.02 9–12 54 0-2
ISCJB I 05 03 16 07.4–.55 39.03N–.02 29.72E–.03 3–6 ¶16357822
CSEM I 05 03 16 07.7–.09 39.04N 29.72E 2 2.8
DDA I 05 03 16 07.3 39.01N 29.72E 7 2.8
ISK I 05 03 16 07.4 39.03N 29.71E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=154.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=2.0km az=91.0.
DDA Event type ke.
ISC I 05 12 13 05.1–.99 38.50N–.03 37.88E–.04 23–8 39 0-2
ISK I 05 12 13 02.8 38.57N 37.92E 15 2.6 ¶16357829
ISCJB I 05 12 13 04.5–.58 38.55N–.05 37.88E–.05 28–4 2.6
CSEM I 05 12 13 04.4–.43 38.49N 37.92E 20 2.8
DDA I 05 12 13 06.2 38.40N 37.67E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.1km az=28.3.
CSEM Event type ke. Error ellipse: s-maj=14.0km s-min=9.4km az=20.0.
DDA Event type ke.
ISC I 05 14 06 35.5–1.2 40.70N–.04 38.91E–.03 11–16 19 0-1
ISCJB I 05 14 06 35.4–.67 40.70N–.04 38.93E–.05 8–10 ¶601608374
CSEM I 05 14 06 35.4–.13 40.70N 38.92E 10 2.8
DDA I 05 14 06 35.5 40.69N 38.94E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.6km az=39.5.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=176.0.
DDA Event type ke.
ISC I 05 16 33 46.5–1.1 38.69N–.02 39.98E–.03 6–10 41 1-2
CSEM I 05 16 33 45.9–.22 38.68N 39.99E 2 2.8 ¶16357835
ISK I 05 16 33 45.9 38.71N 39.96E 8 2.8
DDA I 05 16 33 46.3 38.69N 39.99E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=49.0.
DDA Event type ke.
ISC I 05 16 56 13.7–1.2 38.67N–.03 39.95E–.03 5–11 31 0-2
ISCJB I 05 16 56 13.9–.54 38.69N–.03 39.95E–.04 4–7 ¶16357836
ISK I 05 16 56 13.6 38.70N 39.96E 15 2.7
DDA I 05 16 56 13.2 38.68N 39.96E 7 2.9
CSEM I 05 16 56 14.2–.38 38.63N 39.87E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.9km az=36.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=8.3km az=49.0.
ISC I 05 19 43 56.5–1.2 40.18N–.03 31.64E–.03 6–11 28 0-1
CSEM I 05 19 43 56.4–.20 40.15N 31.74E 2 2.6 ¶16357838
DDA I 05 19 43 56.0 40.20N 31.64E 7 2.6
ISK I 05 19 43 56.6 40.14N 31.72E 9 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.0km az=165.0.
DDA Event type ke.
ISC I 05 20 01 46.8–1.3 37.65N–.03 36.30E–.03 0–12 32 0-2
CSEM I 05 20 01 46.6–.63 37.65N 36.26E 2 2.9 ¶601608382
DDA I 05 20 01 46.6 37.60N 36.28E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.2km s-min=10.4km az=73.0.
DDA Event type ke.
ISC I 05 23 12 16.6–1.0 37.57N–.05 36.31E–.04 4–7 14 0-1
DDA I 05 23 12 16.8 37.57N 36.38E 2 2.6 ¶601608384
ISC Event type ke.
DDA Event type ke.
DDA I 06 01 19 32.0 40.04N 38.66E 7 2.6
¶601608386
DDA Event type ke.
ISC I 06 03 13 02.5–1.5 37.94N–.03 43.8E–.10 7–14 19 0-1
CSEM I 06 03 13 04.0–.67 37.93N 43.58E 10 2.7 ¶601608388
DDA I 06 03 13 04.8 37.96N 43.58E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=36.7km s-min=9.2km az=75.0.
DDA Event type ke.
ISC I 06 03 16 50.9–1.2 39.05N–.06 41.61E–.03 16–8 28 0-3
CSEM I 06 03 16 49.0–.55 38.93N 41.60E 10 2.7 ¶601608389
ISCJB I 06 03 16 51.9–.76 39.09N–.07 41.62E–.04 13–5 2.7
DDA I 06 03 16 52.1 39.16N 41.62E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.2km s-min=5.9km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.0km az=171.0.
DDA Event type ke.
ISC I 06 04 28 04.8–1.1 38.59N–.02 43.58E–.04 11–7 53 0-2
CSEM I 06 04 28 03.9–.43 38.57N 43.52E 5 2.9 ¶15906300
DDA I 06 04 28 04.0 38.63N 43.60E 2 2.9
ISK I 06 04 28 04.2 38.53N 43.27E 6 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=6.4km az=90.0.
DDA Event type ke.
ISC I 06 05 08 52.7–1.0 37.25N–.01 36.37E–.02 5–9 126 0-4
ISK I 06 05 08 51.1 37.26N 36.36E 5 3.3 ¶16357842
DDA I 06 05 08 52.2 37.27N 36.34E 20 3.5
CSEM I 06 05 08 53.0–.12 37.24N 36.34E 5 3.5
NSSC I 06 05 08 53.0–1.5 37.26N 36.45E 4–6 3.1L,1.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=87.0.
NSSC Error ellipse: s-maj=7.8km s-min=7.4km az=-1.0.
ISC I 06 05 54 19.4–1.0 37.40N–.02 28.30E–.02 6–9 97 0-3
ISK I 06 05 54 18.7 37.36N 28.31E 5 2.8 ¶16357843
ISCJB I 06 05 54 19.4–.46 37.38N–.02 28.29E–.02 9–3 2.8
CSEM I 06 05 54 19.9–.17 37.40N 28.31E 10 2.8
DDA I 06 05 54 19.5 37.36N 28.39E 4 3.1
ATH I 06 05 54 19.9 37.38N 28.25E 23–3 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=43.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=54.0.
DDA Event type ke.
ATH Error ellipse: s-maj=2.7km s-min=3.0km az=-1.0.
ISC I 06 06 24 02.1–1.0 37.39N–.02 28.27E–.03 8–11 35 0-1
DDA I 06 06 24 01.9 37.38N 28.32E 7 2.7 ¶16357845
ISCJB I 06 06 24 02.8–.50 37.36N–.03 28.28E–.04 10–6 2.7
CSEM I 06 06 24 02.3–.20 37.38N 28.29E 2 2.5
ISK I 06 06 24 02.2 37.34N 28.21E 9 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=89.0.
ISC I 06 11 22 47.8–1.0 37.59N–.03 36.31E–.03 4–6 21 0-1
CSEM I 06 11 22 47.6 37.61N 36.31E 2 2.6 ¶601608394
DDA I 06 11 22 47.6 37.61N 36.31E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC I 06 14 04 08.3–1.0 39.12N–.02 29.05E–.02 8–9 64 0-2

DDA I 06 14 04 07.7 39.12N 29.04E 7 2.8 ¶16357848
ISK I 06 14 04 07.7 39.12N 29.08E 4 2.9
ISCJB I 06 14 04 08.1–.62 39.11N–.03 29.05E–.03 2–6 2.9
CSEM I 06 14 04 08.2–.12 39.12N 29.07E 2 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=37.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=124.0.
ISC I 06 14 16 10.2–.83 41.03N–.03 36.06E–.03 8 32 0-2
ISK I 06 14 16 07.8 41.16N 36.10E 8 2.6 ¶16357849
ISCJB I 06 14 16 10.4–.55 41.05N–.03 36.06E–.04 8 2.6
DDA I 06 14 16 10.1 41.00N 36.01E 7 2.6
CSEM I 06 14 16 10.0–.28 41.02N 36.03E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=29.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=6.0km az=108.0.
ISC I 06 15 51 07.0–1.1 39.43N–.03 40.26E–.02 9–10 42 0-2
CSEM I 06 15 51 06.7–.28 39.41N 40.26E 2 2.6 ¶16357853
ISK I 06 15 51 06.2 39.44N 40.31E 10 2.6
DDA I 06 15 51 07.2 39.45N 40.24E 8 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.5km az=149.0.
DDA Event type ke.
ISK I 06 16 35 34.4 38.84N 31.45E 6 2.7
CSEM I 06 16 35 34.7–.11 38.83N 31.48E 5 2.9 ¶16357854
DDA I 06 16 35 35.2 38.83N 31.37E 7 2.9
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=37.0.
DDA Event type ke.
ISC I 06 17 33 36.9–.87 40.47N–.02 29.21E–.02 14–7 54 0-1
DDA I 06 17 33 36.9 40.44N 29.19E 7 2.5 ¶16357855
ISK I 06 17 33 36.6 40.48N 29.22E 14 2.3
ISCJB I 06 17 33 37.1–.38 40.47N–.02 29.21E–.03 8–5 2.3
CSEM I 06 17 33 37.2–.09 40.47N 29.21E 12 2.3
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=172.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=179.0.
ISC I 06 19 59 14.2–1.0 39.16N–.03 40.94E–.02 6–10 34 0-2
ISCJB I 06 19 59 13.7–.51 39.17N–.03 40.92E–.04 3–7 ¶16357856
CSEM I 06 19 59 13.3–.22 39.14N 40.91E 2 2.5
DDA I 06 19 59 13.7 39.16N 40.90E 7 2.8
ISK I 06 19 59 14.0 39.18N 41.01E 9 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=140.0.
DDA Event type ke.
ISC I 06 20 07 30.6–1.1 40.16N–.03 31.70E–.03 10–10 35 0-1
ISCJB I 06 20 07 30.9–.69 40.20N–.03 31.69E–.05 7–6 ¶16357857
CSEM I 06 20 07 30.7–.26 40.17N 31.71E 10 2.8
ISK I 06 20 07 30.9 40.23N 31.75E 9 2.7
DDA I 06 20 07 30.4 40.15N 31.77E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.3km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.6km az=149.0.
DDA Event type ke.
ISC I 06 20 24 18.3–1.2 37.60N–.07 36.08E–.03 15 10 0-1
ISCJB I 06 20 24 18.2–.82 37.64N–.08 36.06E–.04 15 ¶601608426
DDA I 06 20 24 18.3 37.61N 36.09E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.6km az=172.4.
DDA Event type ke.
ISC I 06 20 54 25.3–.94 37.55N–.04 36.08E–.02 8–9 33 0-2
ISK I 06 20 54 23.3 37.51N 36.12E 5 2.7 ¶16357860
DDA I 06 20 54 24.5 37.51N 36.08E 7 2.9
CSEM I 06 20 54 25.0–.21 37.55N 36.07E 2 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=177.0.
ISC I 06 21 08 16.3–.92 39.44N–.02 33.06E–.03 6–5 34 0-1
DDA I 06 21 08 15.9 39.43N 33.06E 6 2.6 ¶16357861
ISCJB I 06 21 08 16.3–.60 39.43N–.03 33.05E–.05 6–4 2.6
ISK I 06 21 08 16.0 39.48N 33.09E 6 2.5
CSEM I 06 21 08 16.1–.13 39.43N 33.05E 5 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.0km az=178.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=61.0.
ISC I 06 21 18 21.0–2.5 37.6N–.20 36.08E–.04 15 8 0-1
ISCJB I 06 21 18 21.1–2.0 37.7N–.20 36.06E–.05 15 ¶601608429
DDA I 06 21 18 21.1 37.61N 36.08E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.8km s-min=5.0km az=175.4.
DDA Event type ke.
ISC I 06 21 24 24.8–.97 37.86N–.03 27.29E–.03 9–10 28 0-1
ISK I 06 21 24 23.9 37.90N 27.35E 24 2.5 ¶16357862
ISCJB I 06 21 24 24.7–.51 37.86N–.03 27.29E–.04 9–6 2.5
CSEM I 06 21 24 24.5–.56 37.87N 27.26E 5 2.6
DDA I 06 21 24 25.2 37.85N 27.25E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=138.7.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=8.4km az=82.0.
DDA Event type ke.
ISC I 06 21 57 30.9–.97 38.62N–.03 31.95E–.02 7–9 50 0-2
CSEM I 06 21 57 30.6–.17 38.60N 31.96E 5 2.9 ¶16357863
DDA I 06 21 57 30.5 38.60N 31.96E 12 2.9
ISK I 06 21 57 30.5 38.61N 31.96E 8 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.9km az=22.0.
DDA Event type ke.
ISC I 06 22 55 29.8–1.3 37.12N–.07 28.53E–.07 11–8 19 0-1
DDA I 06 22 55 28.2 37.00N 28.61E 7 2.7 ¶601608431
CSEM I 06 22 55 30.3–.84 37.04N 28.56E 10 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=38.1km s-min=13.7km az=36.0.
ISC I 06 23 33 33.1–.90 37.56N–.03 36.08E–.02 11–7 45 0-2
ISK I 06 23 33 31.6 37.56N 36.09E 5 2.8 ¶16357867
DDA I 06 23 33 32.8 37.53N 36.08E 7 2.8
CSEM I 06 23 33 33.0–.14 37.56N 36.08E 5 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=155.0.
ISC I 07 00 48 52.9–.98 39.09N–.04 28.58E–.03 6–10 30 0-1
DDA I 07 00 48 52.2 39.10N 28.59E 7 2.7 ¶16357870
ISCJB I 07 00 48 53.0–.61 39.06N–.04 28.57E–.04 6–8 2.7
CSEM I 07 00 48 53.1–.25 39.07N 28.55E 4–3 2.7
ISK I 07 00 48 53.2 39.03N 28.53E 16 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.2km az=160.9.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=137.0.
ISC I 07 01 25 01.8–1.4 37.5N–.10 36.09E–.03 13–14 11 0-1
ISCJB I 07 01 25 01.2–1.1 37.6N–.10 36.08E–.04 14–6 ¶601608435
DDA I 07 01 25 01.5 37.50N 36.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.8km s-min=5.1km az=177.8.
DDA Event type ke.
ISC I 07 01 28 17.3–.89 40.70N–.03 29.14E–.03 13–7 46 0-2
ISCJB I 07 01 28 17.4–.44 40.70N–.03 29.15E–.04 4–5 ¶16357871
DDA I 07 01 28 17.3 40.70N 29.14E 7 2.7
CSEM I 07 01 28 17.4–.23 40.73N 29.13E 5 2.7
ISK I 07 01 28 17.0 40.68N 29.17E 17 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=24.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=161.0.
ISC I 07 02 17 58.8–1.2 40.74N–.03 29.11E–.03 13 26 0-1
ISK I 07 02 17 57.9 40.76N 29.11E 5 2.2 ¶16357873
ISCJB I 07 02 17 58.4–.56 40.73N–.03 29.10E–.05 13 2.2
CSEM I 07 02 17 58.9–.23 40.75N 29.10E 5 2.2
DDA I 07 02 17 59.1 40.70N 29.14E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=26.5.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=140.0.
DDA Event type ke.
DDA I 07 09 23 05.6 37.25N 31.87E 7 2.8
CSEM I 07 09 23 05.6 37.25N 31.87E 7 2.8 ¶601608445
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 07 11 55 54.3–1.1 38.58N–.03 31.74E–.04 9–9 30 0-2
ISCJB I 07 11 55 54.0–.68 38.56N–.03 31.74E–.04 1–8 ¶16357875
CSEM I 07 11 55 53.9–.26 38.55N 31.72E 5 2.7
ISK I 07 11 55 54.4 38.58N 31.83E 7 2.7
DDA I 07 11 55 54.1 38.59N 31.72E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.1km az=175.2.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=51.0.
DDA Event type ke.
ISC I 07 12 07 29.0–1.1 37.71N–.02 38.05E–.02 5–10 45 0-2
ISK I 07 12 07 27.7 37.65N 38.01E 11 2.7 ¶16357876
DDA I 07 12 07 28.5 37.72N 38.05E 3 2.7
CSEM I 07 12 07 28.5–.18 37.73N 38.07E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=16.0.
DDA I 07 22 17 25.7 38.99N 28.07E 7 2.7
CSEM I 07 22 17 25.3–.41 38.97N 27.98E 10 2.7 ¶601608470
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.3km s-min=8.6km az=51.0.
ISC I 07 23 05 27.9–.99 39.89N–.02 40.78E–.02 9–9 46 0-2
ISK I 07 23 05 27.5 39.89N 40.82E 5 2.7 ¶16357890
ISCJB I 07 23 05 28.3–.56 39.89N–.03 40.80E–.03 5–6 2.7
CSEM I 07 23 05 28.1–.23 39.92N 40.79E 8 2.7
DDA I 07 23 05 28.2 39.89N 40.79E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=162.7.
CSEM Event type ke.
DDA Event type ke.
ISC I 08 00 24 46.8–1.1 38.78N–.03 40.07E–.02 6–11 47 0-2
ISK I 08 00 24 45.2 38.80N 40.09E 2 2.8 ¶16357891
DDA I 08 00 24 46.3 38.81N 40.07E 4 2.8
CSEM I 08 00 24 46.5–.23 38.77N 40.06E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.9km az=15.0.
ISC I 08 03 23 10.7–1.2 38.13N–.03 39.02E–.02 3–11 39 0-2
DDA I 08 03 23 10.0 38.14N 39.03E 3 2.6 ¶16357896
CSEM I 08 03 23 10.5–.25 38.12N 39.03E 2 2.8
ISK I 08 03 23 10.0 38.15N 39.01E 7 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=5.4km az=129.0.
ISC I 08 10 26 51.1–1.3 37.30N–.09 42.58E–.04 10 18 0-5
ISCJB I 08 10 26 50.8–1.1 37.3N–.10 42.61E–.08 10 ¶15998072
ISK I 08 10 26 50.2 37.31N 42.59E 11 2.4
CSEM I 08 10 26 50.2–.39 37.21N 42.52E 2 2.4
ISN I 08 10 27 11.5–20 35.86N 42.60E 0–92 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=6.9km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=12.4km s-min=6.7km az=34.0.
ISN Error ellipse: s-maj=36.3km s-min=146.1km az=-1.0.
ISC I 08 10 42 13.7–1.0 38.68N–.03 39.93E–.02 15–10 37 0-2
ISCJB I 08 10 42 13.9–.50 38.70N–.03 39.95E–.04 11–6 ¶16357903
ISK I 08 10 42 13.6 38.74N 39.97E 16 2.8
DDA I 08 10 42 13.4 38.69N 39.98E 20 2.7
CSEM I 08 10 42 14.3–.27 38.68N 39.92E 15 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=6.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.6km az=13.0.
ISC I 08 11 52 36.2–.93 40.15N–.02 38.09E–.02 10–8 45 0-2
ISK I 08 11 52 35.9 40.16N 38.10E 7 2.6 ¶16357906
DDA I 08 11 52 35.7 40.14N 38.05E 7 2.7
ISCJB I 08 11 52 36.0–.53 40.17N–.03 38.09E–.04 8–5 2.7
CSEM I 08 11 52 36.0–.15 40.15N 38.09E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.6km az=44.5.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=140.0.
ISC I 08 11 55 59.9–.97 38.50N–.03 28.86E–.02 7–8 40 0-1
ISCJB I 08 11 55 59.7–.50 38.51N–.03 28.87E–.03 2–7 ¶16357907
DDA I 08 11 55 59.6 38.50N 28.85E 8 2.5
CSEM I 08 11 55 59.9–.22 38.52N 28.86E 8 2.4
ISK I 08 11 55 59.2 38.48N 28.84E 12 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=20.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=10.0.
ISC I 08 12 34 30.2–1.2 41.09N–.08 36.06E–.04 7–5 21 0-1
ISK I 08 12 34 27.9 41.20N 36.02E 4 2.4 ¶16357908
ISCJB I 08 12 34 30.7–.90 41.05N–.10 36.09E–.07 6–6 2.4
DDA I 08 12 34 30.3 41.05N 36.06E 19 2.5
CSEM I 08 12 34 30.2–.48 41.10N 36.07E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=5.4km az=26.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.5km s-min=5.9km az=24.0.
ISC I 08 14 33 07.8–.86 37.94N–.02 32.49E–.03 11–6 52 0-2
DDA I 08 14 33 06.7 37.91N 32.52E 7 2.9 ¶16357911
ISCJB I 08 14 33 07.2–.66 37.92N–.03 32.54E–.04 1–6 2.9
CSEM I 08 14 33 07.7–.15 37.94N 32.48E 10 2.7
ISK I 08 14 33 07.5 37.95N 32.49E 12 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=138.3.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=60.0.
ISC I 08 15 05 19.5–.90 40.58N–.02 29.28E–.02 13–7 67 0-2
DDA I 08 15 05 18.6 40.57N 29.28E 2 2.8 ¶16357913
ISK I 08 15 05 18.3 40.59N 29.29E 2 2.8
CSEM I 08 15 05 19.1–.11 40.58N 29.28E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=20.0.
ISC I 08 17 24 52.6–.83 38.43N–.04 29.58E–.03 10 32 0-2
ISK I 08 17 24 51.8 38.43N 29.57E 6 2.8 ¶16357914
ISCJB I 08 17 24 52.1–.53 38.42N–.05 29.56E–.04 10 2.8
CSEM I 08 17 24 52.1–.13 38.42N 29.57E 5 2.8
DDA I 08 17 24 56.3 38.08N 29.11E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=171.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=144.0.

DDA Event type ke.
ISC I 08 23 52 04.6–1.6 39.23N–.04 43.96E–.08 14–10 28 0-2
DDA I 08 23 52 04.7 39.20N 43.95E 7 2.8 ¶16357920
CSEM I 08 23 52 05.0–.63 39.22N 43.91E 10 2.8
ISK I 08 23 52 05.5 38.99N 43.47E 5 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.1km s-min=6.7km az=59.0.
ISC I 09 05 27 32.0–.99 38.69N–.03 28.91E–.03 8–11 28 0-2
ISCJB I 09 05 27 31.8–.54 38.70N–.03 28.90E–.04 7–9 ¶16357924
DDA I 09 05 27 31.8 38.71N 28.88E 7 2.4
CSEM I 09 05 27 31.8–.22 38.68N 28.90E 10 2.6
ISK I 09 05 27 31.1 38.66N 28.95E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=6.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=108.0.
ISC I 09 06 01 09.7–1.0 39.28N–.03 30.46E–.03 9–9 37 0-1
ISCJB I 09 06 01 09.4–.62 39.28N–.03 30.46E–.04 2–7 ¶16357927
CSEM I 09 06 01 09.6–.15 39.30N 30.45E 8 2.7
ISK I 09 06 01 09.1 39.27N 30.45E 11 2.5
DDA I 09 06 01 09.1 39.29N 30.48E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=37.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=41.0.
DDA Event type ke.
ISC I 09 07 06 14.4–1.0 37.32N–.03 36.28E–.02 8–9 40 0-2
ISK I 09 07 06 13.4 37.32N 36.29E 9 2.7 ¶16357928
CSEM I 09 07 06 14.4–.29 37.35N 36.26E 2 2.9
DDA I 09 07 06 15.1 37.38N 36.36E 4 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=6.2km az=172.0.
DDA Event type ke.
ISC I 09 14 28 07.5–.87 37.86N–.02 27.30E–.03 13–7 40 0-2
ISCJB I 09 14 28 07.9–.47 37.87N–.03 27.29E–.04 11–4 ¶16357933
DDA I 09 14 28 07.5 37.86N 27.26E 6 2.6
ISK I 09 14 28 07.6 37.87N 27.31E 2 2.5
CSEM I 09 14 28 08.1–.24 37.89N 27.28E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=146.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=81.0.
ISC I 09 14 45 42.2–1.1 39.46N–.02 37.27E–.03 6–10 33 0-2
DDA I 09 14 45 41.8 39.45N 37.30E 7 2.6 ¶16357934
ISCJB I 09 14 45 42.2–.53 39.44N–.03 37.27E–.04 6–6 2.6
CSEM I 09 14 45 42.2–.20 39.45N 37.28E 5 2.6
ISK I 09 14 45 42.3 39.44N 37.16E 6 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=160.2.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=73.0.
DDA I 09 15 12 18.5 39.71N 29.47E 7 2.9
CSEM I 09 15 12 18.5 39.71N 29.47E 7 2.9 ¶601608506
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 09 16 16 34.9–.98 39.44N–.02 40.34E–.02 11–10 50 0-2
ISCJB I 09 16 16 34.8–.43 39.43N–.03 40.33E–.03 6–6 ¶16357936
CSEM I 09 16 16 34.8–.18 39.42N 40.32E 5 2.8
DDA I 09 16 16 34.6 39.43N 40.31E 6 2.8
ISK I 09 16 16 34.5 39.45N 40.35E 11 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=30.1.
CSEM Event type ke.
DDA Event type ke.
ISC I 09 17 19 41.1–.98 40.36N–.04 27.69E–.03 14–7 26 0-1
ISK I 09 17 19 40.4 40.31N 27.67E 5 2.4 ¶16357937
ISCJB I 09 17 19 41.1–.61 40.35N–.04 27.68E–.05 12–4 2.4
CSEM I 09 17 19 41.2–.16 40.33N 27.67E 10 2.4
DDA I 09 17 19 41.2 40.38N 27.72E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.5km az=35.9.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.9km az=30.0.
DDA Event type ke.
ISC I 09 20 20 26.6–.91 39.99N–.03 32.97E–.02 11–7 38 0-2
ISCJB I 09 20 20 26.6–.59 39.99N–.03 32.97E–.03 6–6 ¶16357938
CSEM I 09 20 20 26.6–.17 39.99N 32.95E 10 2.6
DDA I 09 20 20 26.6 39.99N 33.00E 7 2.6
ISK I 09 20 20 26.1 39.99N 32.98E 9 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.4km az=171.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.4km az=130.0.
DDA Event type ke.
ISC I 09 21 13 19.5–.97 40.43N–.03 30.02E–.02 9–9 44 0-1
ISK I 09 21 13 18.5 40.40N 30.02E 16 2.5 ¶16357939
ISCJB I 09 21 13 19.1–.47 40.44N–.04 30.02E–.04 10–5 2.5
CSEM I 09 21 13 19.2–.13 40.42N 30.01E 10 2.5
DDA I 09 21 13 19.1 40.44N 30.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=25.5.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=27.0.
DDA Event type ke.
ISC I 09 21 20 41.6–.85 39.45N–.02 33.06E–.02 4–6 60 0-2
ISK I 09 21 20 40.9 39.47N 33.09E 4 2.7 ¶16357940
CSEM I 09 21 20 41.5–.13 39.45N 33.05E 2 2.7
DDA I 09 21 20 41.3 39.44N 33.07E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=139.0.
DDA Event type ke.
ISC I 09 21 27 30.8–1.0 39.16N–.03 26.47E–.04 15–8 36 0-2
DDA I 09 21 27 30.6 39.16N 26.46E 7 2.6 ¶16357941
ISCJB I 09 21 27 31.7–.47 39.16N–.03 26.55E–.07 20–6 2.6
CSEM I 09 21 27 31.3–.35 39.14N 26.55E 15 2.6
ISK I 09 21 27 31.3 39.15N 26.54E 28 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.4km az=176.4.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=7.0km az=79.0.
ISC I 09 22 16 12.5–1.0 39.80N–.03 33.31E–.03 11–11 28 0-2
ISK I 09 22 16 08.5 39.98N 33.10E 9 2.5 ¶16357945
ISCJB I 09 22 16 12.0–.85 39.84N–.04 33.30E–.07 7–10 2.5
CSEM I 09 22 16 12.1–.32 39.83N 33.31E 10 2.5
DDA I 09 22 16 12.6 39.80N 33.30E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=7.0km az=15.2.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=6.1km az=117.0.
DDA Event type ke.
ISC I 09 23 23 23.3–1.1 36.93N–.03 29.35E–.02 5–9 70 0-3
ISCJB I 09 23 23 22.8–.57 36.92N–.03 29.35E–.04 5–5 ¶16357947
CSEM I 09 23 23 22.9–.12 36.95N 29.33E 5 3.0
ISK I 09 23 23 22.4 36.94N 29.33E 6 3.0
DDA I 09 23 23 23.4 36.99N 29.25E 16 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.7km az=147.1.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=176.0.
DDA Event type ke.
ISC I 10 00 22 50.4–.92 39.44N–.03 33.03E–.03 4–6 38 0-2
CSEM I 10 00 22 50.9–.16 39.42N 33.03E 2 2.6 ¶16357948
ISK I 10 00 22 50.3 39.41N 33.04E 3 2.6
ISCJB I 10 00 22 51.0–.54 39.43N–.03 33.03E–.05 3–5 2.6
DDA I 10 00 22 51.1 39.42N 33.10E 6 2.6
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.7km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.6km az=29.9.
DDA Event type ke.
ISC I 10 00 32 20.4–.85 39.02N–.04 40.75E–.03 12–5 30 0-2
ISCJB I 10 00 32 20.7–.50 39.05N–.04 40.76E–.04 11–4 ¶16357949
CSEM I 10 00 32 20.0–.29 39.04N 40.73E 8 2.6
DDA I 10 00 32 20.6 39.09N 40.72E 7 2.6
ISK I 10 00 32 20.4 39.02N 40.78E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=6.4km az=153.0.
DDA Event type ke.
ISC I 10 08 44 30.4–.93 39.63N–.03 34.17E–.02 8–8 51 0-2
ISK I 10 08 44 29.9 39.61N 34.18E 6 3.0 ¶16357953
CSEM I 10 08 44 30.6–.22 39.62N 34.15E 10 2.8
DDA I 10 08 44 30.5 39.64N 34.17E 11 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=160.0.
DDA Event type ke.
ISC I 10 11 41 43.8–.99 39.53N–.03 34.67E–.02 8–10 36 0-2
DDA I 10 11 41 43.1 39.52N 34.64E 7 2.9 ¶16357958
ISK I 10 11 41 43.8 39.54N 34.70E 5 3.1
CSEM I 10 11 41 43.8–.14 39.53N 34.67E 2 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=135.0.
ISC I 10 12 55 49.7–.83 39.37N–.02 33.17E–.02 10–6 56 0-2
CSEM I 10 12 55 49.7–.13 39.37N 33.14E 8 2.6 ¶16357960
DDA I 10 12 55 49.5 39.35N 33.18E 7 2.5
ISK I 10 12 55 49.4 39.39N 33.16E 12 2.6
ISCJB I 10 12 55 50.1–.40 39.36N–.02 33.15E–.04 6–4 2.6
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC I 10 17 30 28.2–.86 40.63N–.02 29.16E–.02 13–7 97 0-3
ISCJB I 10 17 30 28.0–.38 40.64N–.02 29.15E–.03 3–4 ¶16357962
ISK I 10 17 30 27.8 40.64N 29.16E 4 2.9L
DDA I 10 17 30 27.4 40.65N 29.14E 16 3.2
CSEM I 10 17 30 28.3–.12 40.64N 29.15E 2 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.6km az=38.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=175.0.
ISC I 10 20 46 50.6–.84 38.56N–.02 43.74E–.02 7–7 130 0-5
ISK I 10 20 46 47.6 38.56N 43.86E 5 3.2L ¶16357966
DDA I 10 20 46 49.3 38.58N 43.74E 5 3.4
TEH I 10 20 46 49.0 38.55N 43.76E 2 3.3L
ISCJB I 10 20 46 50.6–.61 38.49N–.02 43.70E–.02 3–5 3.3L
AZER I 10 20 46 51.8–.22 38.39N 44.15E 2 3.3L
CSEM I 10 20 46 51.0–.20 38.50N 43.65E 2 3.4L
NSSP I 10 20 47 44.4 38.42N 43.73E 5 3.4s
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=7.3.
AZER Error ellipse: s-maj=7.0km s-min=6.3km az=296.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=170.0.
ISC I 10 21 36 02.7–1.0 39.50N–.03 34.63E–.02 10–9 43 0-2
ISK I 10 21 36 01.9 39.49N 34.64E 8 2.7 ¶16357967
ISCJB I 10 21 36 02.3–.54 39.50N–.03 34.63E–.03 1–6 2.7
CSEM I 10 21 36 02.5–.15 39.50N 34.62E 8 3.0
DDA I 10 21 36 02.4 39.52N 34.65E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.4km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=140.0.
DDA Event type ke.
ISC I 11 02 33 21.5–.94 37.39N–.04 37.15E–.03 15–7 31 0-1
ISK I 11 02 33 20.5 37.41N 37.18E 5 2.7 ¶16357973
ISCJB I 11 02 33 21.9–.71 37.41N–.04 37.13E–.04 10–5 2.7
DDA I 11 02 33 21.5 37.40N 37.14E 13 2.9
CSEM I 11 02 33 21.7–.32 37.44N 37.12E 15 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.4km az=159.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.0km az=148.0.
ISC I 11 05 31 01.6–1.0 40.52N–.03 26.05E–.03 11 23 0-2
ISCJB I 11 05 31 01.7–.57 40.55N–.04 26.01E–.07 11 ¶600871496
CSEM I 11 05 31 01.7–.29 40.52N 26.03E 10 2.7
ATH I 11 05 31 01.8 40.54N 25.99E 22–1 2.7
DDA I 11 05 31 03.4 40.50N 26.21E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.2km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=6.8km az=161.0.
ATH Error ellipse: s-maj=0.9km s-min=1.3km az=-1.0.
DDA Event type ke.
ISC I 11 05 49 50.3–.86 39.09N–.03 28.59E–.03 9–7 48 0-2
ISK I 11 05 49 49.7 39.08N 28.59E 7 2.6 ¶16357974
DDA I 11 05 49 49.8 39.09N 28.63E 14 2.6
ISCJB I 11 05 49 50.4–.49 39.08N–.04 28.59E–.03 7–6 2.6
CSEM I 11 05 49 50.4–.17 39.07N 28.60E 8 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=164.4.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=132.0.
ISC I 11 10 33 41.0–1.1 38.68N–.02 40.00E–.02 7–10 57 0-2
ISK I 11 10 33 40.7 38.70N 40.07E 9 2.9 ¶16357977
CSEM I 11 10 33 41.5–.25 38.66N 40.03E 5 2.9
DDA I 11 10 33 41.1 38.73N 40.04E 7 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.3km az=58.0.
DDA Event type ke.
ISC I 11 11 03 09.7–1.6 37.26N–.06 42.91E–.03 7–13 31 0-3
NSSC I 11 11 03 00.0–1.2 37.24N 43.36E 0–150 2.3L ¶16357979
ISCJB I 11 11 03 09.4–1.4 37.11N–.07 42.88E–.05 2–11 2.3L
ISK I 11 11 03 09.6 37.29N 42.93E 5 3.2
CSEM I 11 11 03 10.5–.43 37.18N 42.90E 5 3.2
ISC Event type ke.
NSSC Error ellipse: s-maj=72.1km s-min=264.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.7km az=10.7.
CSEM Event type ke. Error ellipse: s-maj=12.6km s-min=7.0km az=172.0.
ISC I 11 11 48 09.7–1.2 38.39N–.03 37.08E–.02 1–11 41 0-2
ISK I 11 11 48 09.0 38.44N 37.05E 6 2.8 ¶16357981
DDA I 11 11 48 11.0 38.39N 37.17E 7 2.7
CSEM I 11 11 48 10.1–.26 38.38N 37.11E 10 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=167.0.
ISC I 11 11 50 07.3–.96 39.92N–.04 27.04E–.05 9 26 0-1
ISCJB I 11 11 50 07.1–.80 39.92N–.05 27.05E–.06 9 ¶16357982
ISK I 11 11 50 07.2 39.95N 27.05E 16 2.3
CSEM I 11 11 50 07.3–.12 39.91N 27.05E 10 2.3
DDA I 11 11 50 08.8 40.03N 27.25E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=38.0.
DDA Event type ke.
ISC I 11 12 38 21.3–1.1 37.30N–.02 38.62E–.02 4–9 52 0-2
ISCJB I 11 12 38 21.4–.76 37.31N–.02 38.61E–.03 0–6 ¶16357986
DDA I 11 12 38 21.6 37.30N 38.55E 7 3.0
ISK I 11 12 38 21.6 37.31N 38.75E 5 2.9
CSEM I 11 12 38 21.7–.22 37.32N 38.65E 2 2.9

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=174.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.6km az=123.0.
ISC I 11 23 20 11.3–1.0 37.62N–.03 36.29E–.03 4–7 28 0-2
CSEM I 11 23 20 08.6–.79 37.84N 36.29E 1–8 2.7 ¶16358000
ISK I 11 23 20 10.6 37.63N 36.32E 4 2.5
DDA I 11 23 20 12.0 37.60N 36.31E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.5km s-min=13.1km az=153.0.
DDA Event type ke.
DDA I 12 00 16 28.1 37.01N 28.55E 7 2.4
¶601608630
DDA Event type ke.
ISC I 12 00 58 53.7–.98 37.85N–.02 27.33E–.02 6–11 47 0-2
ISCJB I 12 00 58 53.7–.42 37.86N–.02 27.30E–.03 9–4 ¶16358002
DDA I 12 00 58 53.7 37.85N 27.27E 7 2.7
ISK I 12 00 58 53.7 37.88N 27.35E 6 2.7
CSEM I 12 00 58 53.9–.24 37.87N 27.32E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=38.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=92.0.
ISC I 12 01 42 34.2–1.0 40.68N–.03 32.84E–.02 7–10 51 0-2
DDA I 12 01 42 33.0 40.69N 32.85E 1 2.8 ¶16358004
ISK I 12 01 42 33.6 40.66N 32.84E 5 3.0
CSEM I 12 01 42 33.9–.17 40.66N 32.83E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=178.0.
ISC I 12 03 03 06.3–1.0 40.70N–.02 32.85E–.02 9–9 80 0-3
ISK I 12 03 03 05.9 40.69N 32.86E 6 2.8L ¶16358008
DDA I 12 03 03 06.1 40.70N 32.86E 8 3.0
CSEM I 12 03 03 08.9–.18 40.63N 33.07E 10 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=167.0.
ISC I 12 04 31 36.6–1.0 40.70N–.02 32.87E–.02 9–9 66 0-2
DDA I 12 04 31 35.9 40.71N 32.86E 24 2.9 ¶16358013
ISCJB I 12 04 31 36.4–.53 40.71N–.03 32.86E–.03 3–5 2.9
CSEM I 12 04 31 36.7–.16 40.70N 32.87E 5 2.9
ISK I 12 04 31 36.3 40.69N 32.89E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=175.7.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=167.0.
ISC I 12 04 33 55.6–.94 37.86N–.02 27.31E–.02 7–10 49 0-2
ISCJB I 12 04 33 55.7–.43 37.86N–.02 27.30E–.03 8–4 ¶16358014
CSEM I 12 04 33 55.9–.18 37.88N 27.32E 2 2.6
DDA I 12 04 33 55.4 37.85N 27.31E 7 2.6
ISK I 12 04 33 55.7 37.87N 27.35E 9 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=43.2.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=90.0.
DDA Event type ke.
ISC I 12 10 31 35.8–1.2 40.16N–.03 31.75E–.03 3–12 45 0-3
ISK I 12 10 31 34.3 40.14N 31.74E 5 3.3 ¶16358018
CSEM I 12 10 31 35.4–.20 40.16N 31.79E 2 3.0
DDA I 12 10 31 35.2 40.15N 31.78E 6 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=154.0.
DDA Event type ke.
ISC I 12 10 34 18.2–.99 38.72N–.02 29.29E–.03 11–10 42 0-2
ISCJB I 12 10 34 18.4–.46 38.72N–.03 29.28E–.04 8–6 ¶16358019
CSEM I 12 10 34 18.4–.16 38.71N 29.27E 10 2.6
DDA I 12 10 34 18.0 38.71N 29.29E 7 2.6
ISK I 12 10 34 18.1 38.73N 29.25E 9 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=142.3.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=109.0.
DDA Event type ke.
ISC I 12 11 17 59.3–.84 37.51N–.03 36.45E–.02 12–6 44 0-2
ISK I 12 11 17 58.6 37.53N 36.47E 7 2.9 ¶16358020
ISCJB I 12 11 17 59.1–.40 37.52N–.03 36.46E–.03 9–4 2.9
CSEM I 12 11 17 59.1–.17 37.52N 36.45E 10 2.9
DDA I 12 11 17 59.1 37.52N 36.49E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.6km az=27.4.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=171.0.
DDA Event type ke.
ISC I 12 12 28 17.4–1.4 40.13N–.03 31.76E–.04 7–12 31 0-2
CSEM I 12 12 28 17.7–.30 40.13N 31.77E 2 2.7 ¶16358024
DDA I 12 12 28 17.4 40.11N 31.84E 7 2.7
ISK I 12 12 28 17.4 40.12N 31.73E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=6.0km az=158.0.
DDA Event type ke.
ISC I 12 15 26 30.4–1.1 40.75N–.02 34.89E–.03 8–10 45 0-3
DDA I 12 15 26 30.0 40.72N 34.89E 7 2.7 ¶601608652
ISCJB I 12 15 26 30.2–.62 40.75N–.03 34.90E–.04 3–7 2.7
CSEM I 12 15 26 30.3–.21 40.75N 34.88E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=161.7.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=91.0.
ISC I 12 20 30 04.8–1.2 37.31N–.03 36.54E–.04 5–14 21 0-2
ISCJB I 12 20 30 04.3–.69 37.31N–.04 36.54E–.06 7–12 ¶16358032
CSEM I 12 20 30 04.6–.17 37.31N 36.55E 5 2.4
ISK I 12 20 30 04.0 37.31N 36.56E 5 2.4
DDA I 12 20 30 05.0 37.30N 36.60E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.7km az=32.1.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=94.0.
DDA Event type ke.
ISC I 12 21 40 36.6–.91 37.25N–.03 28.53E–.04 14 27 0-2
ISK I 12 21 40 35.9 37.24N 28.53E 9 2.8 ¶16358033
ISCJB I 12 21 40 36.6–.69 37.22N–.04 28.54E–.06 14 2.8
CSEM I 12 21 40 36.8–.32 37.24N 28.55E 10 2.8
DDA I 12 21 40 36.2 37.25N 28.51E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.5km az=161.5.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=6.3km az=74.0.
DDA Event type ke.
ISC I 13 02 52 15.4–.97 37.87N–.02 27.31E–.02 7–10 62 0-2
ISK I 13 02 52 14.1 37.88N 27.35E 5 2.8 ¶16358034
DDA I 13 02 52 15.0 37.87N 27.28E 7 3.0
ATH I 13 02 52 14.7 37.86N 27.33E 10–2 3.0
CSEM I 13 02 52 15.2–.16 37.88N 27.29E 2 3.0
ISC Event type ke.
DDA Event type ke.
ATH Error ellipse: s-maj=1.0km s-min=2.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=37.0.
ISC I 13 05 50 40.4–.87 40.63N–.02 29.00E–.02 14–8 62 0-3
ISCJB I 13 05 50 39.9–.41 40.63N–.03 28.99E–.04 7–4 ¶16358035
ISK I 13 05 50 39.6 40.63N 29.00E 10 2.9
CSEM I 13 05 50 40.1–.07 40.63N 29.00E 8 2.7
DDA I 13 05 50 40.0 40.61N 29.03E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=38.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=153.0.
DDA Event type ke.

ISC I 13 08 38 50.4–1.2 38.08N–.03 37.56E–.04 15–11 27 0-2
ISK I 13 08 38 48.8 38.03N 37.53E 9 2.5 ¶16358036
CSEM I 13 08 38 50.4–.34 38.08N 37.54E 10 2.6
DDA I 13 08 38 50.4 38.07N 37.62E 7 2.6
ISCJB I 13 08 38 51.1–.52 38.07N–.04 37.56E–.05 15–11 2.6
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC I 13 10 49 25.2–1.1 39.76N–.02 43.60E–.03 3–11 51 0-3
DDA I 13 10 49 25.0 39.76N 43.59E 7 3.2 ¶16358039
CSEM I 13 10 49 26.0–.29 39.73N 43.55E 2 3.2
ISK I 13 10 49 27.5 39.77N 43.35E 5 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=82.0.
ISC I 13 11 35 36.6–1.3 37.63N–.03 34.72E–.03 14–14 22 0-2
ISK I 13 11 35 33.9 37.54N 34.48E 28 2.5 ¶16358041
CSEM I 13 11 35 36.2–.23 37.63N 34.70E 30 2.5
DDA I 13 11 35 40.5 37.47N 34.59E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.5km az=64.0.
DDA Event type ke.
ISC I 13 13 00 43.3–.90 39.04N–.03 40.76E–.03 14–6 29 0-2
ISCJB I 13 13 00 43.9–.56 39.06N–.04 40.78E–.04 13–5 ¶16358044
CSEM I 13 13 00 43.1–.27 39.05N 40.72E 5 2.6
ISK I 13 13 00 43.6 39.05N 40.79E 16 2.6
DDA I 13 13 00 44.1 39.11N 40.78E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.4km az=176.4.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.6km az=123.0.
DDA Event type ke.
ISC I 13 13 18 07.3–.96 38.47N–.03 37.72E–.02 11–7 37 0-1
ISK I 13 13 18 06.8 38.55N 37.70E 19 2.4 ¶16358045
ISCJB I 13 13 18 07.7–.72 38.44N–.04 37.67E–.05 6–7 2.4
CSEM I 13 13 18 07.1–.34 38.47N 37.75E 15 2.4
DDA I 13 13 18 07.3 38.39N 37.70E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.5km az=37.5.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=8.1km az=20.0.
DDA Event type ke.
ISC I 13 14 04 49.5–.84 37.49N–.03 38.76E–.03 15–5 39 0-2
ISK I 13 14 04 48.6 37.44N 38.79E 21 2.6 ¶16358046
ISCJB I 13 14 04 49.7–.51 37.54N–.03 38.71E–.03 8–4 2.6
CSEM I 13 14 04 49.5–.30 37.50N 38.81E 15 2.6
DDA I 13 14 04 49.5 37.52N 38.69E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=6.0km az=129.0.
DDA Event type ke.
ISC I 13 17 14 12.1–1.9 40.4N–.20 28.99E–.06 10 13 0-1
ISCJB I 13 17 14 10.3–2.7 40.6N–.20 28.98E–.06 10 ¶16358052
ISK I 13 17 14 10.8 40.38N 28.97E 6 2.5
DDA I 13 17 14 14.4 40.07N 28.98E 7 2.6
CSEM I 13 17 14 16.2–.52 40.19N 29.28E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.7km s-min=6.0km az=177.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.8km s-min=11.4km az=25.0.
ISC I 13 17 26 38.1–1.0 39.60N–.02 26.40E–.02 8–10 84 0-2
DDA I 13 17 26 36.2 39.60N 26.34E 7 2.9 ¶16358053
ISCJB I 13 17 26 37.6–.47 39.62N–.02 26.42E–.03 1–5 2.9
ISK I 13 17 26 37.7 39.64N 26.39E 5 3.0
CSEM I 13 17 26 38.1–.11 39.62N 26.42E 2 2.0L
THE I 13 17 26 39.0 39.61N 26.35E 5–3 2.0L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=1.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=98.0.
THE Event type ke. Error ellipse: s-maj=3.4km s-min=0.7km az=234.0.
ISC I 13 19 37 17.6–.87 38.37N–.02 39.04E–.02 10–7 44 0-2
CSEM I 13 19 37 17.5–.35 38.33N 39.04E 10 2.7 ¶16358055
DDA I 13 19 37 17.1 38.39N 39.03E 14 2.7
ISK I 13 19 37 17.2 38.40N 39.03E 8 2.8
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISC I 13 21 36 19.7–.98 39.74N–.03 26.08E–.05 11–7 28 0-1
ISCJB I 13 21 36 19.8–.69 39.73N–.04 26.08E–.07 6–6 ¶16358056
CSEM I 13 21 36 19.7–.21 39.75N 26.06E 10 2.6
ISK I 13 21 36 19.2 39.73N 26.11E 10 2.6
DDA I 13 21 36 20.2 39.77N 26.17E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=17.8.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=3.1km az=115.0.
DDA Event type ke.
ISC I 13 21 49 17.6–1.3 39.41N–.03 40.47E–.02 3–11 38 1-2
ISCJB I 13 21 49 17.8–.63 39.38N–.04 40.49E–.03 6–6 ¶16358057
DDA I 13 21 49 17.7 39.41N 40.50E 7 2.7
ISK I 13 21 49 17.4 39.42N 40.47E 13 2.7
CSEM I 13 21 49 18.0–.20 39.40N 40.49E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=2.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.6km az=1.0.
ISC I 13 23 51 43.1–1.1 39.90N–.03 40.89E–.03 6–10 32 0-2
ISCJB I 13 23 51 42.7–.62 39.91N–.03 40.86E–.04 3–7 ¶16358058
CSEM I 13 23 51 42.7–.28 39.87N 40.85E 8 2.7
ISK I 13 23 51 42.5 39.95N 40.88E 14 2.7
DDA I 13 23 51 43.1 39.90N 40.94E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=16.3.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.9km az=2.0.
DDA Event type ke.
ISC I 14 00 22 10.1–.93 38.40N–.02 39.01E–.02 12–6 47 0-2
ISCJB I 14 00 22 09.7–.47 38.39N–.03 39.02E–.03 6–4 ¶16358060
CSEM I 14 00 22 09.8–.22 38.41N 39.03E 5 2.5
DDA I 14 00 22 09.8 38.39N 39.02E 7 2.5
ISK I 14 00 22 09.1 38.43N 39.01E 5 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=5.5.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=176.0.
DDA Event type ke.
ISC I 14 03 16 54.0–1.0 37.88N–.04 27.33E–.04 14–11 22 0-1
ISK I 14 03 16 53.5 37.90N 27.35E 15 2.5 ¶16358063
ISCJB I 14 03 16 54.5–.79 37.91N–.04 27.32E–.05 22–14 2.5
CSEM I 14 03 16 54.5–.40 37.92N 27.33E 20 2.5
DDA I 14 03 16 54.6 37.89N 27.31E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.7km az=141.5.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=6.7km az=87.0.
DDA Event type ke.
DDA I 14 03 20 60.0 37.37N 35.96E 7 2.5
¶601608698
DDA Event type ke.
ISC I 14 04 08 44.5–.83 37.52N–.03 38.78E–.02 13–6 47 0-2
ISCJB I 14 04 08 44.8–.49 37.52N–.03 38.75E–.04 9–5 ¶16358064
DDA I 14 04 08 44.5 37.51N 38.70E 7 2.9
ISK I 14 04 08 44.7 37.54N 38.80E 6 2.8
CSEM I 14 04 08 45.0–.20 37.53N 38.79E 8 2.8
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=27.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=93.0.
ISC I 14 04 57 51.6–.96 39.15N–.04 42.16E–.03 25–7 25 0-1
ISCJB I 14 04 57 52.0–.57 39.14N–.04 42.17E–.05 29–5 ¶16358065
CSEM I 14 04 57 51.3–.30 39.17N 42.15E 30 2.8
ISK I 14 04 57 51.7 39.16N 42.16E 29 2.7
DDA I 14 04 57 53.1 39.17N 42.23E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.8km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=7.1km az=156.0.
DDA Event type ke.
ISC I 14 13 19 40.7–.85 37.88N–.02 29.12E–.03 13–6 40 0-2
CSEM I 14 13 19 40.6–.18 37.89N 29.08E 15 2.8 ¶16358068
ISK I 14 13 19 40.0 37.88N 29.08E 17 2.8
ISCJB I 14 13 19 41.1–.45 37.91N–.02 29.06E–.04 8–6 2.8
DDA I 14 13 19 41.9 37.95N 29.08E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=113.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=27.7.
DDA Event type ke.
ISC I 14 13 39 06.3–1.2 38.78N–.05 40.32E–.03 14–11 21 0-1
DDA I 14 13 39 03.7 38.54N 40.23E 7 2.9 ¶16358069
CSEM I 14 13 39 06.7–.57 38.73N 40.25E 10 2.8
ISK I 14 13 39 06.2 38.77N 40.34E 20 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=12.7km az=24.0.
ISC I 14 15 41 53.4–.95 39.02N–.02 34.92E–.02 11–8 61 0-2
ISK I 14 15 41 51.7 39.02N 34.92E 5 3.2 ¶16358074
CSEM I 14 15 41 52.7–.16 39.03N 34.93E 2 2.9
DDA I 14 15 41 52.4 39.01N 34.90E 10 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=5.0.
DDA Event type ke.
DDA I 14 18 38 44.3 40.02N 28.03E 7 2.6
¶601608728
DDA Event type ke.
ISC I 14 19 12 26.2–1.4 40.89N–.04 28.15E–.02 18–7 35 0-1
ISCJB I 14 19 12 25.9–.57 40.82N–.05 28.13E–.03 6–7 ¶16358078
CSEM I 14 19 12 25.7–.26 40.79N 28.12E 2 2.4
DDA I 14 19 12 25.4 40.85N 28.08E 7 2.6
ISK I 14 19 12 26.7 40.91N 28.19E 16 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.3km az=177.6.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=164.0.
DDA Event type ke.
DDA I 15 02 00 21.9 40.80N 28.03E 8 2.6
¶601608741
DDA Event type ke.
ISC I 15 04 13 42.7–1.0 39.80N–.04 26.06E–.06 11–6 22 0-1
ISCJB I 15 04 13 42.8–.79 39.77N–.03 26.04E–.07 9–5 ¶601608746
CSEM I 15 04 13 42.9 39.79N 26.13E 7 2.6
DDA I 15 04 13 42.9 39.79N 26.13E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.2km az=10.7.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC I 15 04 40 12.1–1.1 39.31N–.03 40.15E–.02 10–10 37 0-1
DDA I 15 04 40 11.7 39.25N 40.17E 7 2.8 ¶16358085
ISK I 15 04 40 11.7 39.31N 40.16E 9 2.7
ISCJB I 15 04 40 12.2–.51 39.30N–.03 40.15E–.03 5–6 2.7
CSEM I 15 04 40 12.1–.20 39.31N 40.12E 10 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=150.0.
ISC I 15 04 42 44.7–.89 39.56N–.04 37.14E–.03 6 22 0-1
ISCJB I 15 04 42 45.8–.62 39.54N–.04 37.10E–.05 6 ¶16358086
CSEM I 15 04 42 45.3–.19 39.52N 37.12E 20 2.6
DDA I 15 04 42 45.6 39.56N 37.09E 7 2.6
ISK I 15 04 42 45.4 39.59N 37.19E 23 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=169.9.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=169.0.
DDA Event type ke.
ISC I 15 10 19 36.1–.85 38.28N–.01 28.76E–.02 16–6 161 0-3
DDA I 15 10 19 35.5 38.23N 28.74E 16 3.2 ¶16358089
ISK I 15 10 19 35.6 38.23N 28.74E 8 3.3,3.0L
ATH I 15 10 19 35.0 38.38N 28.86E 13–8 3.4,3.0L
CSEM I 15 10 19 36.3–.13 38.26N 28.77E 2 3.3,3.0L
ISC Event type ke.
DDA Event type ke.
ATH Error ellipse: s-maj=2.4km s-min=3.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=51.0.
ISC I 15 11 06 11.1–1.1 39.09N–.03 34.29E–.03 7–12 35 0-2
CSEM I 15 11 06 10.9–.19 39.07N 34.28E 10 2.5 ¶16358090
DDA I 15 11 06 10.5 39.10N 34.29E 7 2.7
ISK I 15 11 06 10.8 39.06N 34.24E 17 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=120.0.
DDA Event type ke.
ISC I 15 11 19 59.4–1.6 37.26N–.06 38.37E–.03 4–10 31 0-2
CSEM I 15 11 19 58.7–.46 37.23N 38.37E 2 2.7 ¶16358091
DDA I 15 11 19 58.1 37.22N 38.36E 7 2.7
ISK I 15 11 19 59.1 37.24N 38.43E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=7.0km az=11.0.
DDA Event type ke.
ISC I 15 12 05 44.9–1.5 39.77N–.05 29.90E–.04 3–13 35 0-1
CSEM I 15 12 05 45.4–.32 39.79N 29.86E 2 2.4 ¶16358092
DDA I 15 12 05 46.6 39.86N 29.97E 8 2.6
ISK I 15 12 05 46.8 39.90N 29.83E 11 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.5km az=22.0.
DDA Event type ke.
ISC I 15 12 30 10.3–1.2 39.07N–.03 37.35E–.03 1–11 26 0-2
ISCJB I 15 12 30 09.8–.72 39.08N–.04 37.38E–.05 5–8 ¶16358093
CSEM I 15 12 30 09.5–.41 39.10N 37.34E 2 2.6
DDA I 15 12 30 09.2 39.08N 37.37E 7 2.6
ISK I 15 12 30 13.9 39.21N 37.65E 23 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.6km az=179.3.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=8.5km az=166.0.
DDA Event type ke.
ISC I 15 12 58 29.3–.91 38.70N–.02 31.16E–.02 9–7 52 0-3
ISCJB I 15 12 58 28.7–.52 38.69N–.02 31.18E–.03 2–5 ¶16358096
CSEM I 15 12 58 28.8–.13 38.69N 31.16E 5 2.8
DDA I 15 12 58 28.6 38.70N 31.19E 6 2.8
ISK I 15 12 58 28.6 38.73N 31.16E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.9km az=33.9.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=53.0.
DDA Event type ke.
ISC I 15 14 21 49.9–.98 39.82N–.03 35.10E–.03 11–10 36 0-2
ISCJB I 15 14 21 50.0–.61 39.80N–.03 35.10E–.04 4–6 ¶16358099
CSEM I 15 14 21 49.8–.19 39.82N 35.10E 2 3.1
DDA I 15 14 21 49.2 39.83N 35.08E 7 2.9
ISK I 15 14 21 49.7 39.85N 35.17E 6 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=39.7.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=38.0.
DDA Event type ke.
ISC I 15 14 41 08.6–1.2 38.94N–.03 27.82E–.03 6–11 42 1-2
ISCJB I 15 14 41 08.8–.68 38.91N–.03 27.85E–.04 1–7 ¶16358100
DDA I 15 14 41 09.0 38.89N 27.86E 7 3.0
ISK I 15 14 41 08.3 38.91N 27.84E 5 2.7
CSEM I 15 14 41 09.1–.20 38.92N 27.85E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.5km az=142.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=57.0.
ISC I 15 15 31 02.5–.97 37.45N–.03 28.09E–.04 14–9 28 0-1
ISCJB I 15 15 31 03.0–.56 37.43N–.03 28.12E–.05 17–11 ¶16358101
CSEM I 15 15 31 02.7–.21 37.44N 28.09E 15 2.7
ISK I 15 15 31 02.0 37.44N 28.11E 13 2.7
DDA I 15 15 31 03.2 37.53N 28.08E 27 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=168.5.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=87.0.
DDA Event type ke.
ISC I 15 16 00 22.6–1.0 40.83N–.02 31.38E–.02 6–9 143 0-7
DDA I 15 16 00 21.7 40.85N 31.36E 4 3.1 ¶16358102
CSEM I 15 16 00 22.9–.10 40.81N 31.38E 2 3.2
ISK I 15 16 00 22.3 40.80N 31.37E 4 3.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=2.0.
ISC I 15 16 48 27.6–.99 37.92N–.02 29.07E–.03 7–8 32 0-1
ISK I 15 16 48 26.5 37.92N 29.06E 12 2.9 ¶16358103
CSEM I 15 16 48 27.4–.28 37.94N 29.10E 2 2.9
DDA I 15 16 48 27.1 37.94N 29.07E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.9km az=97.0.
DDA Event type ke.
ISC I 15 17 32 35.3–.87 39.15N–.02 36.51E–.02 15–8 43 0-2
CSEM I 15 17 32 34.9–.17 39.15N 36.51E 10 2.7 ¶16358104
ISK I 15 17 32 34.5 39.16N 36.50E 14 3.2
ISCJB I 15 17 32 35.5–.43 39.15N–.03 36.50E–.04 16–8 3.2
DDA I 15 17 32 35.3 39.15N 36.51E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=33.2.
DDA Event type ke.
ISC I 15 18 38 16.8–.99 37.48N–.04 42.41E–.02 3–5 43 0-2
ISK I 15 18 38 16.7 37.45N 42.42E 5 2.9 ¶16358106
CSEM I 15 18 38 17.4–.40 37.44N 42.42E 2 3.0
DDA I 15 18 38 17.1 37.50N 42.38E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=6.2km az=8.0.
DDA Event type ke.
ISC I 15 21 36 08.9–.93 37.50N–.03 38.69E–.03 7–8 42 0-2
ISCJB I 15 21 36 08.9–.67 37.50N–.03 38.71E–.03 4–7 ¶16358108
DDA I 15 21 36 08.9 37.49N 38.70E 7 3.0
ISK I 15 21 36 08.2 37.49N 38.67E 7 3.0
CSEM I 15 21 36 09.1–.15 37.50N 38.73E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=150.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=82.0.
ISC I 15 22 22 55.6–1.2 41.18N–.04 39.12E–.02 11–9 71 0-2
DDA I 15 22 22 55.7 41.11N 39.09E 34 3.0 ¶16358110
ISCJB I 15 22 22 56.2–.76 41.16N–.04 39.13E–.02 13–4 3.0
CSEM I 15 22 22 56.6–.27 41.13N 39.13E 10 3.0
ISK I 15 22 22 56.6 41.06N 39.13E 3 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.0km az=174.7.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=3.7km az=179.0.
ISC I 15 22 24 48.7–.86 38.97N–.04 27.87E–.03 11–6 32 0-2
ISCJB I 15 22 24 48.7–.53 38.94N–.03 27.87E–.05 13–4 ¶16358111
CSEM I 15 22 24 48.6–.17 38.95N 27.86E 10 2.7
ISK I 15 22 24 48.4 38.96N 27.82E 12 2.7
DDA I 15 22 24 48.5 38.96N 27.92E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.5km az=174.1.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=134.0.
DDA Event type ke.
ISC I 16 01 01 23.3–.86 37.50N–.03 38.71E–.03 11–7 34 0-2
ISK I 16 01 01 22.4 37.50N 38.67E 8 2.7 ¶16358113
ISCJB I 16 01 01 23.3–.63 37.53N–.03 38.72E–.05 6–7 2.7
CSEM I 16 01 01 23.4–.23 37.52N 38.72E 10 2.7
DDA I 16 01 01 23.4 37.48N 38.72E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=37.7.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.1km az=108.0.
DDA Event type ke.
ISC I 16 02 22 45.1–.99 37.79N–.03 27.09E–.03 8–8 38 0-2
ISCJB I 16 02 22 45.6–.62 37.80N–.03 27.10E–.05 5–6 ¶16358116
ISK I 16 02 22 45.3 37.80N 27.14E 11 2.7
DDA I 16 02 22 45.4 37.79N 27.09E 6 2.7
CSEM I 16 02 22 46.0–.36 37.81N 27.11E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=142.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=67.0.
ISC I 16 02 39 35.7–1.1 37.09N–.03 30.64E–.03 5–10 36 0-2
ISK I 16 02 39 33.8 37.04N 30.41E 11 2.8 ¶16358117
DDA I 16 02 39 33.9 36.98N 30.67E 7 2.9
ISCJB I 16 02 39 35.7–.61 37.06N–.03 30.64E–.04 4–6 2.9
CSEM I 16 02 39 35.7–.24 37.08N 30.63E 5 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=175.9.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.1km az=104.0.
ISC I 16 02 58 08.8–.94 38.41N–.02 30.96E–.02 13–8 48 0-2
ISCJB I 16 02 58 08.7–.54 38.39N–.03 30.96E–.04 7–4 ¶16358118
CSEM I 16 02 58 08.7–.19 38.40N 30.96E 10 2.6
DDA I 16 02 58 08.3 38.41N 30.94E 7 2.6
ISK I 16 02 58 08.2 38.42N 30.96E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=8.4.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=4.0km az=30.0.
DDA Event type ke.
ISC I 16 06 43 58.2–.89 37.79N–.04 27.12E–.03 8–8 34 0-2
DDA I 16 06 43 57.5 37.76N 27.08E 7 2.6 ¶601069913
ISCJB I 16 06 43 58.1–.50 37.76N–.04 27.10E–.04 6–6 2.6
CSEM I 16 06 43 58.4–.20 37.77N 27.09E 2 2.6
THE I 16 06 43 59.5 37.57N 26.71E 7–2 2.4L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=34.4.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=48.0.
THE Event type ke. Error ellipse: s-maj=3.3km s-min=0.7km az=57.0.
ISC I 16 12 07 21.9–.90 39.10N–.02 36.11E–.02 13–8 54 0-2
ISK I 16 12 07 20.7 39.11N 36.16E 11 2.8 ¶16358121
ISCJB I 16 12 07 21.7–.47 39.09N–.02 36.09E–.03 4–5 2.8
CSEM I 16 12 07 21.9–.17 39.10N 36.10E 10 2.8
DDA I 16 12 07 21.5 39.08N 36.06E 10 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=171.0.

DDA Event type ke.
ISC I 16 13 05 03.1–1.2 37.05N–.04 28.52E–.03 4–14 26 0-1
ISK I 16 13 05 01.3 37.05N 28.54E 5 2.7 ¶16358122
CSEM I 16 13 05 03.0–.30 37.04N 28.55E 2 2.7
DDA I 16 13 05 03.9 37.08N 28.53E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=4.8km az=26.0.
DDA Event type ke.
ISC I 16 17 33 54.4–.94 40.72N–.02 29.20E–.03 10–7 43 0-2
ISK I 16 17 33 52.4 40.76N 29.25E 5 2.4 ¶16358127
DDA I 16 17 33 53.8 40.68N 29.21E 7 2.7
CSEM I 16 17 33 54.0–.20 40.73N 29.20E 5 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=62.0.
ISC I 16 19 18 53.2–1.0 36.92N–.02 34.00E–.02 9–9 97 0-4
DDA I 16 19 18 52.3 36.93N 33.97E 11 3.5L ¶16358129
ISK I 16 19 18 53.2 37.03N 34.05E 5 3.2
CSEM I 16 19 18 54.0–.20 36.97N 34.03E 5 3.5L
NSSC I 16 19 18 57.0–1.4 36.82N 34.20E 124–33 2.3L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.4km az=54.0.
NSSC Error ellipse: s-maj=8.8km s-min=25.5km az=-1.0.
ISC I 16 21 06 43.1–1.2 39.27N–.03 29.31E–.04 3–11 27 0-1
ISK I 16 21 06 38.7 39.38N 29.90E 7 2.2 ¶16358134
CSEM I 16 21 06 42.9–.19 39.30N 29.29E 2 2.7
DDA I 16 21 06 42.6 39.27N 29.29E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.2km az=125.0.
DDA Event type ke.
ISC I 16 21 27 49.2–1.4 41.08N–.06 39.64E–.03 14–11 38 0-2
DDA I 16 21 27 49.0 41.02N 39.73E 28 2.8 ¶16358135
ISCJB I 16 21 27 49.2–.84 41.10N–.05 39.65E–.04 13–4 2.8
CSEM I 16 21 27 49.5–.19 41.07N 39.65E 14–1 2.8
ISK I 16 21 27 49.8 40.98N 39.59E 13 2.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.4km az=168.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.6km az=169.0.
ISC I 16 23 57 52.9–1.0 38.43N–.03 39.11E–.02 6–11 28 0-2
CSEM I 16 23 57 52.8–.35 38.45N 39.08E 2 2.6 ¶16358136
ISK I 16 23 57 52.1 38.43N 39.11E 8 2.6
DDA I 16 23 57 53.5 38.41N 39.18E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.5km az=165.0.
DDA Event type ke.
ISC I 17 00 11 10.3–1.0 38.93N–.02 31.15E–.05 9–12 29 0-2
ISK I 17 00 11 09.4 38.84N 31.23E 6 2.7 ¶16358137
ISCJB I 17 00 11 10.4–.64 38.90N–.04 31.15E–.06 13–6 2.7
CSEM I 17 00 11 10.3–.31 38.90N 31.17E 5 2.7
DDA I 17 00 11 11.2 38.93N 30.94E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.6km az=23.1.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=6.0km az=85.0.
DDA Event type ke.
ISC I 17 00 58 30.2–.97 39.05N–.03 27.81E–.03 13–7 28 0-1
ISCJB I 17 00 58 29.8–.73 39.05N–.05 27.81E–.05 9–10 ¶16358138
DDA I 17 00 58 29.7 39.06N 27.80E 7 2.6
CSEM I 17 00 58 30.1–.18 39.05N 27.80E 12 2.7
ISK I 17 00 58 30.1 39.02N 27.84E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.9km az=26.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=105.0.
ISC I 17 06 47 04.3–1.1 38.04N–.03 32.34E–.04 2–15 22 0-2
ISCJB I 17 06 47 03.9–.72 38.04N–.04 32.33E–.08 5–7 ¶16358140
CSEM I 17 06 47 03.9–.24 38.03N 32.31E 6–2 2.6
ISK I 17 06 47 03.8 38.02N 32.34E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.5km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=82.0.
ISC I 17 07 19 43.9–1.2 40.67N–.04 35.51E–.04 24–19 24 0-1
DDA I 17 07 19 41.4 40.77N 35.56E 13 2.7 ¶601608795
CSEM I 17 07 19 43.8–.28 40.65N 35.52E 15 2.7
ISCJB I 17 07 19 44.8–.61 40.66N–.03 35.51E–.06 19–13 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC I 17 09 55 57.5–1.2 39.23N–.03 40.33E–.03 20–4 30 0-1
ISK I 17 09 55 54.5 38.98N 40.14E 31 2.5 ¶16358143
CSEM I 17 09 55 56.8–.34 39.25N 40.35E 12 2.5
ISCJB I 17 09 55 57.7–.52 39.27N–.05 40.35E–.04 11–10 2.5
DDA I 17 09 55 57.8 39.27N 40.35E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=7.5km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.1km az=24.5.
DDA Event type ke.
ISC I 17 16 15 03.3–1.1 40.74N–.03 41.22E–.03 7–11 37 0-2
DDA I 17 16 15 03.0 40.74N 41.24E 7 2.8 ¶16358150
CSEM I 17 16 15 03.2–.22 40.73N 41.22E 2 2.8
ISK I 17 16 15 04.3 40.61N 41.17E 17 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=150.0.
ISC I 17 21 57 35.6–.95 40.31N–.02 33.45E–.03 8–9 45 0-2
CSEM I 17 21 57 35.6–.14 40.30N 33.45E 2 2.6 ¶16358152
DDA I 17 21 57 35.4 40.32N 33.47E 7 2.6
ISK I 17 21 57 35.2 40.30N 33.41E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=98.0.
DDA Event type ke.
ISC I 17 22 02 46.2–.87 40.32N–.02 33.43E–.02 12–7 53 0-2
ISK I 17 22 02 44.6 40.32N 33.37E 5 2.8 ¶16358153
DDA I 17 22 02 45.7 40.31N 33.43E 14 2.7
CSEM I 17 22 02 46.3–.18 40.33N 33.42E 10 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.9km az=111.0.
ISC I 18 00 32 44.2–1.1 40.74N–.02 32.95E–.02 3–10 84 0-3
DDA I 18 00 32 43.2 40.71N 32.97E 2 2.9 ¶16358156
CSEM I 18 00 32 44.1–.16 40.74N 32.96E 2 2.9
ISK I 18 00 32 44.1 40.78N 32.98E 10 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=174.0.
ISC I 18 04 17 06.7–1.2 40.14N–.03 31.76E–.03 5–10 34 0-2
DDA I 18 04 17 06.0 40.11N 31.82E 7 2.7 ¶16358158
CSEM I 18 04 17 06.7–.28 40.13N 31.73E 2 2.7
ISK I 18 04 17 07.2 40.04N 31.64E 9 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.9km az=107.0.
ISC I 18 10 07 13.7–1.2 40.40N–.03 36.99E–.03 6–11 38 0-2
DDA I 18 10 07 08.3 40.72N 36.87E 7 2.8 ¶16358165
ISK I 18 10 07 11.3 40.18N 37.05E 5 2.6
ISCJB I 18 10 07 13.1–.86 40.41N–.06 36.95E–.04 3–7 2.6
CSEM I 18 10 07 13.2–.26 40.40N 36.97E 2 2.8
ISC Event type ke.
DDA Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.3km az=2.5.
CSEM Event type ke.
ISC I 18 11 56 02.1–.95 37.28N–.03 38.39E–.02 17–8 42 0-2
ISK I 18 11 56 01.7 37.29N 38.34E 11 2.9 ¶16358170
ISCJB I 18 11 56 02.8–.67 37.29N–.05 38.37E–.03 14–6 2.9
CSEM I 18 11 56 02.8–.20 37.33N 38.36E 15 2.8
DDA I 18 11 56 02.9 37.22N 38.33E 7 2.8
NSSC I 18 11 56 05.7–1.3 36.63N 38.40E 24–17 1.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.1km az=7.2.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=173.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=6.0km s-min=4.1km az=-1.0.
ISC I 18 14 50 42.4–1.1 40.74N–.02 34.87E–.03 8–10 43 0-2
ISK I 18 14 50 41.4 40.75N 34.41E 30 2.7 ¶16358181
CSEM I 18 14 50 42.8–.25 40.75N 34.88E 8 2.9
DDA I 18 14 50 42.6 40.72N 34.92E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.4km az=102.0.
DDA Event type ke.
ISC I 18 15 53 45.3–1.1 40.12N–.03 27.20E–.02 5–13 50 0-2
DDA I 18 15 53 44.5 40.12N 27.22E 7 2.9 ¶16358182
CSEM I 18 15 53 45.5–.18 40.14N 27.19E 2 2.6
ISK I 18 15 53 45.1 40.15N 27.21E 5 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.3km az=43.0.
ISC I 18 16 07 35.5–3.0 36.13N–.07 35.9E–.20 17–11 14 0-1
CSEM I 18 16 07 34.7–.10 36.09N 35.84E 15 2.5 ¶601608846
DDA I 18 16 07 36.9 36.22N 36.17E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=1.2km az=109.0.
DDA Event type ke.
ISC I 18 18 27 35.0–.96 39.01N–.03 33.84E–.02 5–9 48 0-2
DDA I 18 18 27 34.1 39.01N 33.81E 7 2.9 ¶16358186
ISK I 18 18 27 34.6 39.00N 33.83E 5 2.6
CSEM I 18 18 27 34.8–.12 39.00N 33.83E 5 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=159.0.
ISC I 18 19 08 50.7–1.0 38.24N–.03 31.09E–.03 13–10 34 0-1
ISCJB I 18 19 08 50.6–.55 38.24N–.03 31.10E–.04 4–7 ¶16358187
CSEM I 18 19 08 50.8–.18 38.24N 31.08E 10 2.6
DDA I 18 19 08 50.0 38.24N 31.11E 7 2.6
ISK I 18 19 08 50.5 38.23N 31.08E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=136.8.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.6km az=8.0.
DDA Event type ke.
ISC I 18 20 19 43.6–2.4 36.0N–.10 29.11E–.06 16 22 0-2
CSEM I 18 20 19 43.3–1.1 35.94N 29.12E 20 2.8 ¶16358188
ISK I 18 20 19 43.5 36.04N 29.10E 22 2.8
DDA I 18 20 19 46.8 36.38N 29.21E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=25.7km s-min=11.8km az=16.0.
DDA Event type ke.
ISC I 18 20 23 18.0–1.1 38.38N–.02 37.40E–.02 2–10 66 0-3
ISK I 18 20 23 16.7 38.39N 37.43E 2 2.9 ¶16358189
CSEM I 18 20 23 17.9–.23 38.38N 37.40E 2 2.9
DDA I 18 20 23 18.1 38.41N 37.39E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=66.0.
DDA Event type ke.
ISC I 18 23 38 39.8–.91 39.01N–.02 33.86E–.02 13–9 58 0-3
DDA I 18 23 38 38.7 38.97N 33.86E 7 2.7 ¶16358195
CSEM I 18 23 38 39.4–.13 39.00N 33.86E 2 2.7
ISK I 18 23 38 39.2 39.03N 33.85E 6 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=165.0.
ISC I 18 23 38 46.2–1.1 37.89N–.02 29.15E–.02 5–10 49 0-2
DDA I 18 23 38 45.9 37.87N 29.18E 7 2.8 ¶16358196
CSEM I 18 23 38 46.6–.24 37.90N 29.16E 2 2.9
ISK I 18 23 38 46.0 37.91N 29.08E 5 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=107.0.
ISC I 19 00 06 53.9–.84 39.78N–.02 27.81E–.02 9–6 76 0-2
ISCJB I 19 00 06 53.7–.40 39.78N–.02 27.81E–.03 2–4 ¶16358197
DDA I 19 00 06 53.5 39.78N 27.82E 7 3.0
ISK I 19 00 06 53.6 39.77N 27.82E 6 2.7
CSEM I 19 00 06 54.0–.07 39.78N 27.81E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=167.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=80.0.
ISC I 19 02 25 21.7–1.1 39.27N–.02 41.08E–.02 7–10 43 0-2
CSEM I 19 02 25 21.4–.26 39.25N 41.08E 2 2.6 ¶16358200
DDA I 19 02 25 21.7 39.30N 41.08E 7 2.6
ISCJB I 19 02 25 22.4–.47 39.30N–.02 41.12E–.03 8–5 2.6
ISK I 19 02 25 22.1 39.30N 41.11E 9 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=5.2km az=174.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=7.8.
ISC I 19 03 37 34.6–.88 38.56N–.03 39.73E–.03 9 24 0-1
ISK I 19 03 37 33.2 38.66N 39.70E 9 2.6 ¶16358201
DDA I 19 03 37 34.7 38.47N 39.76E 7 2.6
ISCJB I 19 03 37 35.1–.57 38.53N–.04 39.75E–.04 9 2.6
CSEM I 19 03 37 35.4–.31 38.50N 39.73E 10 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=0.6.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=6.1km az=175.0.
ISC I 19 03 50 46.6–1.1 40.42N–.03 32.98E–.03 7–10 45 0-2
ISCJB I 19 03 50 46.3–.66 40.41N–.03 32.99E–.04 2–6 ¶16358202
CSEM I 19 03 50 46.2–.18 40.42N 32.97E 2 2.6
DDA I 19 03 50 46.1 40.40N 33.02E 7 2.6
ISK I 19 03 50 46.1 40.41N 32.98E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=143.8.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=146.0.
DDA Event type ke.
ISK I 19 09 52 16.3 40.48N 29.20E 5 2.0
CSEM I 19 09 52 16.3 40.48N 29.20E 5 2.0 ¶16358206
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 19 10 01 12.0–1.0 37.10N–.05 28.51E–.04 15–7 24 0-1
DDA I 19 10 01 10.7 37.03N 28.52E 7 2.5 ¶16358208
ISK I 19 10 01 10.9 37.10N 28.55E 13 2.6
ISCJB I 19 10 01 11.9–.83 37.12N–.05 28.56E–.05 13–13 2.6
CSEM I 19 10 01 11.8–.49 37.05N 28.53E 15 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.5km az=36.5.
CSEM Event type ke. Error ellipse: s-maj=16.0km s-min=8.0km az=35.0.
ISC I 19 10 31 40.4–.00 37.89N–.03 27.27E–.03 9–10 26 0-1
ISK I 19 10 31 39.7 37.88N 27.38E 23 2.4 ¶16358210
ISCJB I 19 10 31 40.6–.56 37.87N–.03 27.30E–.06 10–6 2.4
CSEM I 19 10 31 40.4–.37 37.89N 27.25E 10 2.7
DDA I 19 10 31 40.5 37.84N 27.29E 7 2.7
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.7km az=167.1.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=6.6km az=79.0.
DDA Event type ke.
ISC I 19 10 35 33.1–1.3 37.24N–.03 31.88E–.03 5–11 34 1-2
CSEM I 19 10 35 33.2–.36 37.24N 31.85E 2 2.8 ¶16358211
DDA I 19 10 35 33.0 37.26N 31.89E 7 3.0
ISK I 19 10 35 33.7 37.37N 31.84E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=68.0.
DDA Event type ke.
ISC I 19 10 37 04.7–1.0 37.64N–.03 36.33E–.03 8–9 42 0-2
ISK I 19 10 37 03.6 37.67N 36.34E 8 2.3 ¶16358212
CSEM I 19 10 37 04.9–.47 37.65N 36.31E 2 2.3
DDA I 19 10 37 05.6 37.59N 36.38E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=8.7km az=58.0.
DDA Event type ke.
ISC I 19 12 33 30.1–.88 38.99N–.03 40.98E–.03 10–6 36 0-2
ISK I 19 12 33 29.6 39.08N 41.03E 18 2.4 ¶16358218
CSEM I 19 12 33 29.4–.28 39.00N 40.95E 2 2.4
DDA I 19 12 33 30.1 38.97N 41.01E 3 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.9km az=155.0.
DDA Event type ke.
ISC I 19 12 45 33.8–1.1 39.90N–.02 33.08E–.02 5–10 48 0-2
ISK I 19 12 45 32.5 39.91N 33.05E 3 2.4 ¶16358219
CSEM I 19 12 45 33.4–.19 39.90N 33.07E 2 2.4
DDA I 19 12 45 33.4 39.89N 33.09E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=20.0.
DDA Event type ke.
ISC I 19 13 58 04.7–1.7 37.31N–.08 42.51E–.05 2–13 18 0-2
ISK I 19 13 58 01.8 37.32N 42.54E 5 2.5 ¶16358221
CSEM I 19 13 58 04.5–.71 37.37N 42.46E 5 2.5
DDA I 19 13 58 06.3 37.51N 42.43E 12 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=22.2km s-min=11.6km az=10.0.
DDA Event type ke.
DDA I 19 13 58 09.2 39.02N 41.06E 8 2.2
¶601608865
DDA Event type ke.
ISC I 19 14 31 14.7–.98 40.18N–.02 27.73E–.02 9–8 52 0-2
ISK I 19 14 31 13.2 40.14N 27.71E 6 2.5 ¶16358223
CSEM I 19 14 31 14.2–.24 40.20N 27.73E 5 2.5
DDA I 19 14 31 14.4 40.18N 27.72E 16 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=45.0.
DDA Event type ke.
ISC I 19 14 35 06.5–1.0 37.53N–.05 38.56E–.04 13–9 23 0-2
ISCJB I 19 14 35 05.6–1.2 37.46N–.05 38.63E–.05 2–9 ¶16358224
CSEM I 19 14 35 05.7–.54 37.46N 38.57E 10 2.4
DDA I 19 14 35 05.6 37.47N 38.62E 7 2.4
ISK I 19 14 35 05.2 37.52N 38.51E 14 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=162.5.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=9.1km az=176.0.
DDA Event type ke.
ISC I 19 18 05 48.8–1.2 37.14N–.05 28.57E–.04 11–9 24 0-1
ISK I 19 18 05 48.1 37.05N 28.49E 20 2.6 ¶16358230
DDA I 19 18 05 48.2 37.03N 28.59E 7 2.6
ISCJB I 19 18 05 49.0–.95 37.16N–.05 28.60E–.07 12–11 2.6
CSEM I 19 18 05 49.3–.45 37.05N 28.53E 20 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.3km az=136.0.
CSEM Event type ke. Error ellipse: s-maj=18.7km s-min=8.0km az=38.0.
ISC I 19 21 19 02.1–.91 36.49N–.02 35.92E–.02 12–7 84 0-3
DDA I 19 21 19 00.9 36.51N 35.88E 7 3.4 ¶16358231
NSSC I 19 21 19 01.9–1.2 36.50N 35.93E 12–4 2.4L,1.1
ISK I 19 21 19 01.9 36.45N 35.90E 6 3.0,1.1
ISCJB I 19 21 19 02.3–.43 36.46N–.02 35.93E–.02 11–3 3.0,1.1
CSEM I 19 21 19 02.5–.15 36.45N 35.93E 10 3.0,1.1
ISC Event type ke.
DDA Event type ke.
NSSC Error ellipse: s-maj=4.8km s-min=7.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=40.9.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=40.0.
ISC I 19 21 30 50.1–1.0 39.77N–.03 33.32E–.03 9–12 40 0-2
CSEM I 19 21 30 49.8–.16 39.77N 33.34E 2 2.8 ¶16358232
DDA I 19 21 30 49.6 39.76N 33.32E 7 2.8
ISK I 19 21 30 49.6 39.77N 33.29E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=176.0.
DDA Event type ke.
ISC I 19 22 30 46.1–.69 36.07N–.03 31.23E–.02 49–14 3.4b 381 1-35
DDA I 19 22 30 43.6 36.16N 31.29E 51 3.9L ¶15940673
IDC I 19 22 30 45.9–1.4 36.06N 31.02E 75–20 3.6,3.4
ISK I 19 22 30 45.2 36.11N 31.22E 31 3.5L,3.4
CSEM I 19 22 30 46.5–.08 36.09N 31.20E 40 3.9L,3.4
THE I 19 22 30 46.0 36.12N 31.29E 44–4 3.8L,3.4
GII I 19 22 30 46.7–.00 36.02N 31.32E 30 3.0,3.4
NSSC I 19 22 30 48.4–1.2 36.07N 31.41E 85–115 3.0L,3.4
NIC I 19 22 30 48.0–.30 36.16N 31.66E 23 4.2b,3.9L
HLW I 19 22 30 49.1 35.85N 30.94E 31–24 4.0,3.2L
ISC Event type ke.
DDA Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=13.0km az=177.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=41.0.
THE Event type ke. Error ellipse: s-maj=4.8km s-min=1.2km az=51.0.
GII Event type ke.
NSSC Error ellipse: s-maj=5.2km s-min=17.0km az=-1.0.
ISC I 19 23 17 51.0–.97 38.63N–.02 31.16E–.02 8–9 54 0-2
CSEM I 19 23 17 50.8–.13 38.63N 31.15E 5 2.8L ¶16358233
DDA I 19 23 17 50.2 38.61N 31.16E 11 2.8L
ISK I 19 23 17 50.7 38.65N 31.12E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=13.0.
DDA Event type ke.
ISC I 20 01 14 29.1–1.0 37.39N–.04 42.53E–.03 7–7 40 0-3
CSEM I 20 01 14 28.5–.31 37.37N 42.56E 2 3.2 ¶16358236
ISK I 20 01 14 28.5 37.48N 42.61E 7 2.9
DDA I 20 01 14 30.7 37.55N 42.45E 5 3.2
ISCJB I 20 01 14 31.2–.64 37.56N–.06 42.37E–.04 2–8 3.2
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC I 20 02 09 37.4–.71 40.73N–.02 29.77E–.01 12–4 4.0b,2.9s 528 0-75
THE I 20 02 09 26.0 41.14N 30.70E 0–4 4.2L,2.9s ¶15964349
MOS I 20 02 09 35.6–1.2 40.73N 29.83E 13 4.3b,2.9s
IDC I 20 02 09 35.5–.64 40.71N 29.77E 0 4.0,3.9L
DDA I 20 02 09 36.4 40.73N 29.76E 24 4.4L,3.9L
ISK I 20 02 09 37.0 40.71N 29.76E 10 4.1L,3.9L
NEIC I 20 02 09 37.0 40.71N 29.76E 12 4.3L,4.1b
CSEM I 20 02 09 37.3–.06 40.72N 29.78E 10 4.0b,4.1b
ISCJB I 20 02 09 37.1–.24 40.76N–.01 29.78E–.01 20–2 4.0b,2.9s
ISC Event type fe.
THE Event type ke.
DDA Event type ke.
NEIC Event type fe. Felt at Golcuk. After ISK.
CSEM Event type ke.

ISCJB Event type fe.
ISC I 20 02 15 55.3–1.1 37.65N–.03 36.58E–.04 12–11 28 0-2
ISK I 20 02 15 53.7 37.63N 36.71E 10 2.6 ¶16358238
ISCJB I 20 02 15 55.9–.62 37.69N–.03 36.61E–.05 2–8 2.6
CSEM I 20 02 15 55.0–.57 37.71N 36.54E 10 2.6
DDA I 20 02 15 57.4 37.67N 36.73E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.3km az=155.6.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=11.1km az=135.0.
DDA Event type ke.
ISC I 20 04 30 13.9–1.0 37.49N–.03 38.69E–.03 5–9 24 0-1
ISK I 20 04 30 12.4 37.47N 38.64E 5 2.2 ¶16358241
DDA I 20 04 30 13.5 37.51N 38.74E 5 3.0
ISCJB I 20 04 30 14.1–.68 37.50N–.03 38.70E–.03 2–6 3.0
CSEM I 20 04 30 14.0–.21 37.50N 38.72E 5 2.2
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.7km az=64.0.
ISC I 20 05 50 18.1–.98 38.72N–.03 43.13E–.03 11–9 33 0-1
CSEM I 20 05 50 17.9–.24 38.73N 43.14E 2 2.7 ¶601608890
DDA I 20 05 50 17.6 38.72N 43.15E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=62.0.
DDA Event type ke.
ISC I 20 07 04 30.7–1.5 37.24N–.04 30.94E–.03 108–10 54 0-3
ISCJB I 20 07 04 29.7–.91 37.23N–.05 30.93E–.05 118–10 ¶601608892
CSEM I 20 07 04 30.6–.90 37.27N 30.91E 108–10 2.9
DDA I 20 07 04 31.8 37.22N 31.08E 78 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.6km az=162.5.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=7.6km az=164.0.
DDA Event type ke.
ISC I 20 07 45 18.2–1.1 40.66N–.04 41.16E–.03 7–12 20 1-2
DDA I 20 07 45 17.4 40.67N 41.16E 7 2.5 ¶16358248
CSEM I 20 07 45 18.0–.06 40.66N 41.15E 5 2.4
ISK I 20 07 45 19.4 40.55N 41.09E 12 2.4
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=145.0.
ISC I 20 08 59 08.4–1.1 38.89N–.02 30.27E–.03 8–11 43 0-2
DDA I 20 08 59 07.7 38.90N 30.27E 7 2.6 ¶16358250
ISCJB I 20 08 59 08.3–.68 38.92N–.03 30.30E–.04 3–8 2.6
CSEM I 20 08 59 08.0–.25 38.89N 30.28E 10 2.7
ISK I 20 08 59 08.0 38.89N 30.29E 10 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=156.6.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=31.0.
ISC I 20 09 22 45.7–1.1 38.07N–.03 38.13E–.03 8–10 41 1-2
ISCJB I 20 09 22 45.0–.71 38.06N–.03 38.14E–.03 1–6 ¶16358251
ISK I 20 09 22 44.0 38.11N 38.12E 2 2.8
CSEM I 20 09 22 45.4–.24 38.08N 38.15E 5 2.8
DDA I 20 09 22 45.7 38.03N 38.10E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=136.3.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=45.0.
DDA Event type ke.
DDA I 20 12 16 25.4 37.94N 27.03E 7 2.5
¶16358259
DDA Event type ke.
ISC I 20 12 16 26.9–.98 37.38N–.04 27.91E–.05 9–10 15 0-1
ISK I 20 12 16 26.6 37.36N 27.90E 9 2.7 ¶601608909
DDA I 20 12 16 27.7 37.14N 28.04E 7 2.3
CSEM I 20 12 16 27.2–.30 37.38N 27.90E 10 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=6.1km az=90.0.
ISC I 20 15 54 34.1–.88 39.44N–.02 26.23E–.03 11–8 55 0-2
ATH I 20 15 54 33.0 39.41N 26.29E 22–1 3.0 ¶16358269
ISCJB I 20 15 54 34.1–.56 39.43N–.02 26.23E–.04 13–4 3.0
CSEM I 20 15 54 34.3–.16 39.45N 26.20E 12 3.0
ISK I 20 15 54 34.0 39.47N 26.24E 8 2.7
ISC Event type ke.
ATH Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=14.9.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=109.0.
ISC I 20 17 19 18.0–1.1 38.01N–.04 29.05E–.03 9–9 28 0-1
ISCJB I 20 17 19 17.4–.87 37.97N–.05 29.03E–.05 8–7 ¶16358270
CSEM I 20 17 19 17.6–.24 37.99N 29.04E 10 2.4
DDA I 20 17 19 17.1 37.99N 29.02E 6 2.8
ISK I 20 17 19 17.5 37.99N 29.04E 10 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.1km az=172.1.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=141.0.
DDA Event type ke.
ISC I 21 00 22 09.3–1.1 37.81N–.03 30.72E–.03 6–8 32 0-1
ISK I 21 00 22 08.7 37.78N 30.68E 13 2.6 ¶16358272
ISCJB I 21 00 22 09.6–.59 37.83N–.03 30.76E–.04 1–8 2.6
CSEM I 21 00 22 09.5–.29 37.81N 30.72E 10 2.6
DDA I 21 00 22 09.9 37.85N 30.78E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=170.1.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=6.1km az=25.0.
DDA Event type ke.
ISC I 21 00 37 21.7–2.4 39.0N–.10 42.24E–.06 14–11 12 0-1
ISCJB I 21 00 37 21.7–1.5 38.98N–.08 42.27E–.06 5–8 ¶601608922
DDA I 21 00 37 22.9 39.08N 42.22E 18 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=6.0km az=158.5.
DDA Event type ke.
ISC I 21 00 58 43.2–.94 40.00N–.02 41.84E–.03 10–6 29 0-1
ISCJB I 21 00 58 43.7–.54 39.98N–.03 41.80E–.05 5–7 ¶16358273
CSEM I 21 00 58 43.4–.25 39.99N 41.80E 2 2.6
DDA I 21 00 58 43.2 39.99N 41.82E 10 2.6
ISK I 21 00 58 47.8 39.83N 41.49E 14 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.7km az=32.8.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.1km az=78.0.
DDA Event type ke.
ISC I 21 02 37 23.8–.83 39.30N–.02 36.68E–.02 14–5 51 0-2
ISK I 21 02 37 22.8 39.31N 36.68E 8 2.8 ¶16358274
IASPE I 21 02 37 23.6–.87 39.29N–.03 36.68E–.03 15–5 2.8
ISCJB I 21 02 37 23.7–.47 39.28N–.03 36.67E–.04 10–4 2.8
CSEM I 21 02 37 23.5–.20 39.28N 36.66E 10 2.9
DDA I 21 02 37 23.4 39.28N 36.65E 14 2.9
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=123.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=38.6.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=133.0.
DDA Event type ke.
ISC I 21 02 39 17.7–.96 39.29N–.03 36.70E–.02 19–3 32 0-2
CSEM I 21 02 39 17.6–.20 39.26N 36.70E 15 2.6 ¶16358275
ISK I 21 02 39 17.2 39.28N 36.71E 10 2.6
ISCJB I 21 02 39 18.3–.49 39.30N–.04 36.69E–.04 17–6 2.6
DDA I 21 02 39 18.3 39.32N 36.67E 14 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=3.0.

ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.2km az=161.9.
DDA Event type ke.
ISC I 21 02 40 58.8–.89 39.27N–.03 36.67E–.02 15–5 34 0-1
ISCJB I 21 02 40 58.9–.47 39.27N–.03 36.66E–.04 13–4 ¶16358276
CSEM I 21 02 40 58.7–.15 39.26N 36.66E 10 2.6
DDA I 21 02 40 58.5 39.28N 36.67E 17 2.6
ISK I 21 02 40 58.5 39.28N 36.65E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=136.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=148.0.
DDA Event type ke.
ISC I 21 02 42 48.6–.87 39.28N–.03 36.65E–.03 16–5 28 0-2
ISK I 21 02 42 47.8 39.36N 36.53E 27 2.5 ¶16358277
CSEM I 21 02 42 48.3–.17 39.27N 36.66E 15 2.3
DDA I 21 02 42 48.9 39.28N 36.63E 7 2.3
ISCJB I 21 02 42 49.1–.55 39.29N–.04 36.66E–.05 16–7 2.3
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC I 21 02 45 23.6–1.2 39.28N–.03 36.66E–.03 12–7 20 0-1
ISCJB I 21 02 45 23.3–.61 39.28N–.04 36.65E–.05 13–5 ¶601608924
CSEM I 21 02 45 23.4 39.26N 36.65E 7 2.5
DDA I 21 02 45 23.4 39.26N 36.65E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.3km az=37.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC I 21 03 24 03.5–.83 39.28N–.02 36.66E–.02 13–5 55 0-2
ISK I 21 03 24 01.8 39.27N 36.67E 2 2.9 ¶16358278
DDA I 21 03 24 03.0 39.28N 36.65E 16 2.9
IASPE I 21 03 24 03.2–.87 39.27N–.03 36.67E–.03 15–5 2.9
ISCJB I 21 03 24 03.4–.43 39.26N–.02 36.65E–.03 6–4 2.9
CSEM I 21 03 24 03.3–.14 39.26N 36.66E 8 2.9
ISC Event type ke.
DDA Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=167.9. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=165.4.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=20.0.
ISC I 21 03 45 15.5–.99 39.02N–.03 28.64E–.03 4–10 32 0-1
ISCJB I 21 03 45 15.4–.54 39.01N–.03 28.63E–.05 4–6 ¶16358279
CSEM I 21 03 45 15.6–.18 39.01N 28.63E 5 2.6
DDA I 21 03 45 15.1 39.01N 28.66E 7 2.6
ISK I 21 03 45 15.3 38.98N 28.65E 11 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=8.7.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=82.0.
DDA Event type ke.
ISC I 21 04 04 53.0–1.0 39.11N–.03 37.79E–.02 9–10 48 0-2
ISCJB I 21 04 04 52.8–.51 39.12N–.03 37.79E–.03 2–6 ¶16358280
DDA I 21 04 04 52.8 39.12N 37.80E 7 2.9
CSEM I 21 04 04 52.9–.22 39.10N 37.80E 5 2.9
ISK I 21 04 04 52.2 39.13N 37.82E 12 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=12.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=2.0.
ISC I 21 08 05 25.1–1.1 36.82N–.03 29.28E–.02 6–10 31 0-2
DDA I 21 08 05 21.8 37.06N 29.14E 7 2.6 ¶16358283
ISK I 21 08 05 21.6 36.40N 29.31E 5 2.5
CSEM I 21 08 05 25.6–.34 36.73N 29.28E 2 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=6.5km az=179.0.
ISC I 21 08 46 37.9–.90 40.51N–.03 36.99E–.03 16–7 30 0-2
ISK I 21 08 46 35.3 40.23N 37.75E 24 2.4 ¶16358285
DDA I 21 08 46 37.0 40.47N 36.96E 7 2.6
CSEM I 21 08 46 37.9–.38 40.45N 36.97E 2 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=6.8km az=155.0.
ISC I 21 10 40 51.0–1.1 40.57N–.02 34.86E–.02 8–9 77 0-3
ISCJB I 21 10 40 50.8–.51 40.58N–.02 34.86E–.03 6–4 ¶16358291
ISK I 21 10 40 50.4 40.58N 34.88E 10 2.8
DDA I 21 10 40 50.6 40.55N 34.87E 7 3.0
CSEM I 21 10 40 51.0–.13 40.58N 34.85E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=39.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=134.0.
ISC I 21 13 38 50.1–1.2 37.68N–.06 38.11E–.04 16–9 36 0-2
CSEM I 21 13 38 48.7–.26 37.22N 38.55E 10 3.0 ¶601608936
NSSC I 21 13 38 49.0–1.6 37.17N 38.48E 7–12 2.1L,1.0
DDA I 21 13 38 49.8 37.69N 38.13E 7 3.0,1.0
ISCJB I 21 13 38 50.4–1.2 37.69N–.07 38.17E–.05 23–5 3.0,1.0
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISK I 21 14 24 08.4 41.83N 34.42E 8 2.7
CSEM I 21 14 24 09.3–.51 41.86N 34.38E 2 2.7 ¶16358301
DDA I 21 14 24 12.2 41.71N 34.49E 6 2.7
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=7.9km az=11.0.
DDA Event type ke.
ISK I 21 14 24 33.5 39.84N 32.69E 10 2.3
CSEM I 21 14 24 33.9–.25 39.84N 32.68E 10 2.3 ¶16358302
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=118.0.
ISC I 21 18 46 58.1–1.0 39.83N–.02 30.34E–.02 3–10 88 0-3
ISCJB I 21 18 46 57.9–.47 39.83N–.02 30.35E–.03 2–5 ¶16358306
ISK I 21 18 46 57.4 39.83N 30.38E 4 2.9
DDA I 21 18 46 57.6 39.82N 30.31E 8 3.0
CSEM I 21 18 46 58.1–.10 39.83N 30.36E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=137.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=37.0.
ISC I 21 20 36 15.0–.96 38.81N–.05 27.87E–.06 9–10 22 0-1
DDA I 21 20 36 15.0 38.82N 27.91E 3 2.6 ¶16358308
CSEM I 21 20 36 16.2–.51 38.81N 27.88E 2 2.6
ISK I 21 20 36 17.8 38.72N 28.02E 5 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=8.3km az=119.0.
ISC I 21 21 24 12.3–1.1 37.66N–.03 36.27E–.02 6–10 51 0-3
ISK I 21 21 24 11.6 37.69N 36.26E 5 2.8 ¶16358309
DDA I 21 21 24 12.5 37.61N 36.32E 7 2.8
CSEM I 21 21 24 13.6–.23 37.65N 36.23E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=157.0.
ISC I 21 21 53 42.7–.98 37.85N–.02 27.31E–.02 6–10 53 0-2
ISCJB I 21 21 53 42.7–.43 37.85N–.03 27.31E–.03 4–6 ¶16358311
CSEM I 21 21 53 42.9–.20 37.85N 27.32E 5 2.6
ISK I 21 21 53 42.9 37.87N 27.38E 9 2.8
DDA I 21 21 53 42.2 37.84N 27.31E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=135.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=77.0.

DDA Event type ke.
ISC I 21 22 23 14.0–.96 37.54N–.02 38.44E–.02 6–10 55 0-3
DDA I 21 22 23 13.6 37.54N 38.45E 11 3.0 ¶16358312
ISK I 21 22 23 13.3 37.54N 38.46E 3 3.0
CSEM I 21 22 23 14.1–.13 37.55N 38.46E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=33.0.
ISC I 21 22 54 15.3–1.1 38.61N–.02 42.21E–.03 3–10 45 0-2
ISK I 21 22 54 14.6 38.62N 42.21E 5 2.9 ¶16358313
ISCJB I 21 22 54 15.4–.68 38.61N–.03 42.20E–.04 2–5 2.9
CSEM I 21 22 54 15.3–.19 38.63N 42.22E 2 2.9
DDA I 21 22 54 15.3 38.59N 42.17E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=162.1.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=67.0.
DDA Event type ke.
ISC I 21 23 09 58.5–.93 40.38N–.03 33.32E–.03 9–8 39 0-2
DDA I 21 23 09 57.3 40.31N 33.47E 7 3.1 ¶16358317
CSEM I 21 23 09 58.9–.29 40.39N 33.31E 2 3.1
ISK I 21 23 09 58.2 40.46N 33.20E 5 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=5.3km az=123.0.
ISC I 21 23 39 35.5–.91 39.49N–.03 41.06E–.03 16–7 26 0-1
ISCJB I 21 23 39 35.1–.98 39.57N–.04 40.99E–.08 26–7 ¶16358320
CSEM I 21 23 39 35.1–.31 39.45N 41.05E 5 2.6
ISK I 21 23 39 35.2 39.52N 41.19E 4 2.5
DDA I 21 23 39 36.1 39.54N 41.20E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=5.0km az=30.2.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.8km az=102.0.
DDA Event type ke.
ISC I 22 00 25 34.8–.97 41.01N–.05 39.78E–.03 18–4 36 0-2
DDA I 22 00 25 33.6 41.12N 39.89E 7 2.6 ¶16358322
ISCJB I 22 00 25 34.5–.78 41.05N–.05 39.79E–.04 11–4 2.6
CSEM I 22 00 25 34.8–.32 41.01N 39.81E 10 2.5
ISK I 22 00 25 34.0 40.99N 39.77E 20 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.6km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.3km az=177.0.
ISC I 22 01 23 36.7–.95 37.44N–.04 35.50E–.02 4–7 40 0-1
CSEM I 22 01 23 36.7–.25 37.41N 35.52E 10 2.6 ¶16358324
DDA I 22 01 23 36.8 37.43N 35.44E 2 2.6
ISK I 22 01 23 36.2 37.44N 35.52E 8 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.1km az=163.0.
DDA Event type ke.
ISK I 22 11 29 11.1 39.51N 33.50E 6 2.6
CSEM I 22 11 29 11.1 39.51N 33.50E 6 2.6 ¶16358331
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 22 14 13 16.4–1.0 40.51N–.03 30.41E–.03 5–10 40 0-1
DDA I 22 14 13 16.8 40.58N 30.34E 7 2.6 ¶16358337
ISK I 22 14 13 16.9 40.42N 30.40E 5 2.4
ISCJB I 22 14 13 17.0–.46 40.45N–.03 30.40E–.04 4–8 2.4
CSEM I 22 14 13 17.2–.13 40.43N 30.40E 8 2.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=153.0.
ISC I 22 15 07 30.5–1.1 40.74N–.02 34.88E–.03 9–10 42 0-2
DDA I 22 15 07 29.9 40.73N 34.89E 24 2.5 ¶16358340
ISCJB I 22 15 07 30.5–.54 40.74N–.02 34.91E–.05 4–6 2.5
CSEM I 22 15 07 30.6–.14 40.73N 34.89E 8 2.5
ISK I 22 15 07 30.3 40.74N 34.91E 10 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=11.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=103.0.
ISC I 22 15 09 06.6–.00 37.00N–.03 35.74E–.03 1–8 31 0-1
ISK I 22 15 09 06.8 37.00N 35.73E 5 2.5 ¶16358341
CSEM I 22 15 09 07.8–.38 37.00N 35.73E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=7.9km az=150.0.
ISC I 22 15 28 53.4–1.3 37.33N–.05 42.54E–.03 4–11 31 0-3
ISK I 22 15 28 51.6 37.29N 42.54E 5 3.2 ¶16358342
CSEM I 22 15 28 52.7–.33 37.30N 42.54E 2 2.7
ISCJB I 22 15 28 53.0–.98 37.32N–.05 42.58E–.04 3–7 2.7
DDA I 22 15 28 57.2 37.47N 42.52E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.2km az=13.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.5km az=15.9.
DDA Event type ke.
ISC I 22 16 55 57.8–3.5 38.73N–.05 44.0E–.20 6 20 0-1
CSEM I 22 16 55 56.1–1.7 38.67N 44.09E 10 2.6 ¶601608997
DDA I 22 16 56 03.0 38.71N 43.53E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=28.7km s-min=12.8km az=104.0.
DDA Event type ke.
ISC I 22 23 26 01.2–1.1 38.13N–.04 28.79E–.03 8–11 26 0-1
CSEM I 22 23 26 01.6–.32 38.17N 28.82E 8 2.6 ¶601609014
DDA I 22 23 26 01.3 38.15N 28.82E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.1km az=157.0.
DDA Event type ke.
ISC I 23 01 03 44.7–.95 37.10N–.02 36.72E–.03 10–8 33 0-2
ISK I 23 01 03 43.5 37.06N 36.81E 6 2.5 ¶16358344
CSEM I 23 01 03 44.1–.41 37.17N 36.58E 8 2.6
DDA I 23 01 03 45.0 37.10N 36.74E 4 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=6.4km az=110.0.
DDA Event type ke.
ISC I 23 06 58 30.8–.96 40.09N–.05 38.09E–.04 10–8 26 0-2
ISK I 23 06 58 28.8 40.12N 38.06E 5 2.8 ¶16358349
ISCJB I 23 06 58 30.5–.73 40.15N–.08 38.04E–.07 13–5 2.8
CSEM I 23 06 58 30.1–.26 40.12N 38.08E 8 2.8
DDA I 23 06 58 30.2 40.04N 38.14E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=4.5km az=150.9.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=4.0km az=156.0.
DDA Event type ke.
ISC I 23 07 55 22.1–1.1 39.73N–.02 38.96E–.02 3–11 57 0-2
ISK I 23 07 55 21.6 39.77N 38.96E 5 2.6 ¶16358352
ISCJB I 23 07 55 22.0–.46 39.76N–.02 38.97E–.03 3–6 2.6
CSEM I 23 07 55 22.3–.11 39.77N 38.99E 10 2.6
DDA I 23 07 55 22.2 39.75N 38.96E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=157.2.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=101.0.
DDA Event type ke.
ISC I 23 21 22 59.8–.82 37.46N–.02 38.64E–.02 14–6 81 0-2
ISCJB I 23 21 22 59.7–.50 37.46N–.02 38.62E–.02 5–4 ¶16358357
DDA I 23 21 22 59.3 37.47N 38.60E 7 3.3
ISK I 23 21 22 59.6 37.49N 38.63E 8 2.9
CSEM I 23 21 23 00.0–.16 37.46N 38.66E 8 2.9
NSSC I 23 21 23 02.1–1.2 37.17N 38.60E 12–8 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=166.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.6km az=142.0.

NSSC Error ellipse: s-maj=10.0km s-min=3.1km az=-1.0.
ISC I 23 22 01 12.6–.89 40.46N–.02 30.17E–.02 10–8 92 0-3
DDA I 23 22 01 11.8 40.45N 30.17E 12 3.0 ¶16358358
ISK I 23 22 01 11.1 40.48N 30.16E 5 3.1
CSEM I 23 22 01 12.2–.10 40.46N 30.17E 2 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=178.0.
ISC I 23 23 37 49.6–.98 37.51N–.05 38.88E–.06 12–6 20 0-2
DDA I 23 23 37 48.8 37.57N 38.86E 7 2.7 ¶16358359
ISCJB I 23 23 37 49.8–.96 37.49N–.04 38.92E–.09 11–5 2.7
CSEM I 23 23 37 49.6–.43 37.48N 38.92E 15 2.3
ISK I 23 23 37 49.2 37.46N 38.95E 11 2.3
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=5.6km az=17.2.
CSEM Event type ke. Error ellipse: s-maj=15.2km s-min=5.6km az=102.0.
ISC I 24 07 20 12.6–.95 39.61N–.03 34.06E–.02 9–9 55 0-2
CSEM I 24 07 20 12.7–.20 39.62N 34.06E 2 2.7 ¶16358361
ISK I 24 07 20 12.3 39.62N 34.01E 10 2.6
DDA I 24 07 20 12.6 39.59N 34.09E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.3km az=145.0.
DDA Event type ke.
ISC I 24 07 22 18.0–1.1 39.62N–.03 34.08E–.02 4–13 42 0-2
ISCJB I 24 07 22 17.5–.51 39.62N–.04 34.07E–.04 4–6 ¶16358362
CSEM I 24 07 22 17.6–.11 39.61N 34.08E 2 2.6
DDA I 24 07 22 17.2 39.61N 34.10E 7 2.6
ISK I 24 07 22 17.2 39.63N 34.05E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.7km az=145.9.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=146.0.
DDA Event type ke.
ISC I 24 07 28 48.2–1.1 39.99N–.03 39.97E–.03 7–10 28 0-2
ISCJB I 24 07 28 48.6–.55 40.00N–.03 39.99E–.04 6–7 ¶16358364
DDA I 24 07 28 48.6 40.03N 40.04E 7 2.7
CSEM I 24 07 28 48.2–.30 39.97N 40.00E 5 2.7
ISK I 24 07 28 48.2 40.02N 39.99E 8 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=157.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=167.0.
ISC I 24 09 17 07.0–.96 38.67N–.03 33.64E–.03 13–8 38 0-2
DDA I 24 09 17 06.7 38.71N 33.62E 9 2.8 ¶16358365
ISCJB I 24 09 17 07.4–.55 38.69N–.03 33.63E–.04 8–5 2.8
CSEM I 24 09 17 07.3–.22 38.69N 33.64E 2 2.5
ISK I 24 09 17 07.1 38.69N 33.68E 5 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=16.3.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=97.0.
ISC I 24 10 24 14.8–1.2 37.25N–.03 31.91E–.03 7–12 22 1-2
DDA I 24 10 24 14.8 37.28N 31.91E 7 2.8 ¶601609049
CSEM I 24 10 24 15.0–.35 37.28N 31.87E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=6.2km az=67.0.
ISC I 24 12 56 44.4–1.1 38.40N–.03 37.69E–.03 7–10 34 0-2
ISK I 24 12 56 43.6 38.40N 37.67E 3 2.6 ¶16358368
ISCJB I 24 12 56 44.3–.70 38.39N–.03 37.68E–.04 0–8 2.6
CSEM I 24 12 56 44.7–.35 38.38N 37.70E 10 2.6
DDA I 24 12 56 44.4 38.39N 37.68E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.1km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=6.3km az=24.0.
DDA Event type ke.
ISC I 24 14 01 46.0–1.3 39.28N–.03 40.37E–.03 6–11 26 0-2
DDA I 24 14 01 39.3 38.91N 40.38E 7 2.8 ¶16358369
ISCJB I 24 14 01 46.3–.64 39.30N–.05 40.36E–.04 2–12 2.8
CSEM I 24 14 01 46.3–.34 39.26N 40.36E 10 2.5
ISK I 24 14 01 46.1 39.28N 40.33E 13 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.0km az=14.4.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.2km az=142.0.
ISC I 24 14 34 53.7–.87 41.08N–.04 36.07E–.03 8–4 36 0-2
ISK I 24 14 34 52.7 41.10N 36.15E 5 2.6 ¶16358370
ISCJB I 24 14 34 53.9–.60 41.11N–.04 36.10E–.04 6–4 2.6
CSEM I 24 14 34 53.7–.21 41.10N 36.09E 8 2.6
DDA I 24 14 34 53.6 41.05N 36.08E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.3km az=26.6.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.6km az=31.0.
DDA Event type ke.
ISC I 24 15 32 03.2–.89 39.37N–.02 27.77E–.03 15–7 50 0-1
DDA I 24 15 32 02.6 39.38N 27.79E 7 2.6 ¶16358372
ISK I 24 15 32 02.8 39.37N 27.78E 10 2.6
ISCJB I 24 15 32 03.1–.44 39.37N–.02 27.79E–.04 7–5 2.6
CSEM I 24 15 32 03.2–.10 39.37N 27.78E 15 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.5km az=178.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=86.0.
ISC I 24 16 53 14.1–1.1 36.93N–.03 29.30E–.02 2–10 48 0-3
ISCJB I 24 16 53 13.9–.55 36.94N–.03 29.25E–.03 4–7 ¶16358373
DDA I 24 16 53 13.8 36.98N 29.22E 7 2.9
ISK I 24 16 53 13.5 36.95N 29.25E 9 2.9
CSEM I 24 16 53 14.1–.19 36.94N 29.28E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=169.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=18.0.
ISC I 24 18 30 10.3–.92 38.87N–.02 27.17E–.02 12–8 87 0-2
ISK I 24 18 30 09.4 38.86N 27.15E 11 2.8 ¶16358375
ISCJB I 24 18 30 10.2–.38 38.88N–.02 27.19E–.02 7–4 2.8
CSEM I 24 18 30 10.5–.11 38.87N 27.19E 12 2.8
DDA I 24 18 30 11.0 38.90N 27.23E 5 2.9
ATH I 24 18 30 11.1 38.86N 27.18E 41–1 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=9.3.
CSEM Event type ke.
DDA Event type ke.
ATH Error ellipse: s-maj=1.5km s-min=2.0km az=-1.0.
ISC I 24 19 31 55.1–.96 39.04N–.02 31.07E–.02 10–9 56 0-2
ISCJB I 24 19 31 55.0–.57 39.04N–.02 31.07E–.04 4–5 ¶16358376
ISK I 24 19 31 54.6 39.05N 31.05E 5 2.6
DDA I 24 19 31 54.6 39.03N 31.05E 7 2.9
CSEM I 24 19 31 55.2–.17 39.04N 31.06E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.3km az=12.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=92.0.
DDA I 24 20 07 29.1 37.99N 37.68E 7 2.2
¶601609061
DDA Event type ke.
ISC I 24 22 16 39.3–.94 37.91N–.02 29.13E–.03 8–8 53 0-2
CSEM I 24 22 16 38.7–.16 37.90N 29.20E 5 2.8 ¶16358377
ISK I 24 22 16 38.3 37.92N 29.13E 7 2.8
DDA I 24 22 16 38.7 37.93N 29.11E 1 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=107.0.
DDA Event type ke.
ISC I 24 22 45 20.9–1.0 38.72N–.04 40.06E–.03 13–10 24 0-1
ISK I 24 22 45 19.5 38.70N 40.08E 2 2.6 ¶16358378
DDA I 24 22 45 20.8 38.72N 40.06E 15 2.7
ISCJB I 24 22 45 21.3–.61 38.70N–.05 40.02E–.04 9–9 2.7
CSEM I 24 22 45 21.5–.38 38.65N 39.97E 10 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.3km az=167.7.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=7.0km az=18.0.
ISC I 25 05 30 13.3–1.2 37.91N–.03 29.16E–.04 8–10 27 0-1
DDA I 25 05 30 12.5 37.89N 29.17E 7 2.6 ¶16358384
CSEM I 25 05 30 13.0–.40 37.91N 29.18E 8 2.6
ISK I 25 05 30 13.4 37.91N 29.06E 11 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=4.8km az=114.0.
ISC I 25 11 01 07.1–1.0 37.87N–.02 27.35E–.03 15–9 44 0-2
ISK I 25 11 01 06.9 37.89N 27.34E 9 2.8 ¶16358387
DDA I 25 11 01 06.2 37.86N 27.35E 7 2.6
ISCJB I 25 11 01 07.3–.65 37.87N–.02 27.37E–.04 12–5 2.6
CSEM I 25 11 01 07.5–.19 37.87N 27.37E 15 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=7.7.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=95.0.
ISC I 25 11 13 34.6–.00 37.85N–.02 27.37E–.02 7–11 59 0-2
ATH I 25 11 13 31.9 37.79N 27.54E 4 3.2 ¶16358389
ISCJB I 25 11 13 34.6–.47 37.89N–.02 27.36E–.03 0–6 3.2
ISK I 25 11 13 34.9 37.88N 27.41E 5 2.7
DDA I 25 11 13 34.1 37.86N 27.32E 7 2.7
CSEM I 25 11 13 35.0–.19 37.89N 27.36E 2 2.7
ISC Event type ke.
ATH Error ellipse: s-maj=2.4km s-min=2.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=179.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.8km az=153.0.
ISC I 25 16 10 13.8–1.2 38.01N–.03 36.25E–.04 6–11 22 0-2
ISK I 25 16 10 12.6 38.03N 36.21E 4 2.6 ¶16358395
ISCJB I 25 16 10 13.5–.74 38.01N–.03 36.26E–.07 4–9 2.6
CSEM I 25 16 10 13.7–.34 38.01N 36.26E 5 2.6
DDA I 25 16 10 14.4 38.11N 36.63E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.0km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.1km az=109.0.
DDA Event type ke.
ISC I 25 20 22 45.1–1.1 37.92N–.03 29.01E–.05 5–11 36 0-2
DDA I 25 20 22 44.8 37.95N 29.08E 7 2.8 ¶16358396
CSEM I 25 20 22 45.6–.29 37.92N 29.11E 2 2.6
ISK I 25 20 22 45.4 37.86N 29.06E 3 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=118.0.
ISC I 25 21 10 27.5–1.1 37.93N–.03 29.14E–.03 3–11 33 0-2
ISCJB I 25 21 10 26.6–.66 37.88N–.03 29.17E–.05 6–6 ¶16358397
CSEM I 25 21 10 26.6–.20 37.89N 29.19E 2 2.7
DDA I 25 21 10 26.7 37.91N 29.17E 7 2.8
ISK I 25 21 10 26.6 37.89N 29.13E 4 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=27.2.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.7km az=111.0.
DDA Event type ke.
ISC I 25 21 22 40.0–1.2 37.93N–.05 29.16E–.05 10–7 21 0-1
DDA I 25 21 22 38.6 37.88N 29.19E 7 2.6 ¶16358398
CSEM I 25 21 22 39.6–.57 37.90N 29.22E 5 2.5
ISK I 25 21 22 40.6 37.89N 29.02E 2 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.9km s-min=6.4km az=131.0.
ISC I 25 23 49 16.6–1.1 37.08N–.04 35.65E–.03 9–10 24 0-2
ISCJB I 25 23 49 17.0–.57 37.04N–.04 35.65E–.04 12–5 ¶16358400
DDA I 25 23 49 16.1 36.99N 35.66E 7 2.6
ISK I 25 23 49 16.5 37.10N 35.67E 5 2.6
CSEM I 25 23 49 17.1–.13 37.11N 35.69E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.5km az=24.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.3km az=31.0.
ISC I 26 08 15 34.8–1.0 38.18N–.02 37.16E–.02 7–10 64 0-3
ISK I 26 08 15 33.9 38.18N 37.14E 5 3.0 ¶16358406
CSEM I 26 08 15 34.4–.16 38.18N 37.15E 2 3.0
DDA I 26 08 15 34.6 38.19N 37.16E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=86.0.
DDA Event type ke.
ISC I 26 11 36 53.3–1.1 39.51N–.02 31.41E–.03 1–10 36 0-1
ISK I 26 11 36 52.1 39.53N 31.39E 2 2.3 ¶16358407
CSEM I 26 11 36 53.9–.27 39.49N 31.39E 2 2.3
DDA I 26 11 36 53.9 39.47N 31.37E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=52.0.
DDA Event type ke.
ISC I 26 15 52 18.2–1.2 40.12N–.03 31.75E–.02 2–11 49 0-2
ISK I 26 15 52 17.5 40.09N 31.65E 5 2.9 ¶16358409
DDA I 26 15 52 17.9 40.14N 31.75E 7 3.0
CSEM I 26 15 52 18.2–.20 40.08N 31.70E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=30.0.
DDA I 26 22 55 22.1 38.02N 29.14E 6 2.1
¶601609153
DDA Event type ke.
ISC I 27 01 08 19.6–.83 37.49N–.03 38.72E–.04 9 28 0-1
ISCJB I 27 01 08 20.5–.59 37.45N–.03 38.66E–.05 9 ¶16358412
CSEM I 27 01 08 20.6–.28 37.43N 38.65E 5 2.5
DDA I 27 01 08 20.2 37.46N 38.58E 7 2.7
ISK I 27 01 08 20.0 37.53N 38.94E 4 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=169.1.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.3km az=77.0.
DDA Event type ke.
ISC I 27 02 38 39.6–.91 39.82N–.02 26.12E–.04 12–5 52 0-2
ISK I 27 02 38 38.9 39.80N 26.12E 9 2.7 ¶16358413
ISCJB I 27 02 38 39.5–.57 39.80N–.02 26.13E–.05 9–4 2.7
CSEM I 27 02 38 39.3–.18 39.81N 26.10E 12 2.7
DDA I 27 02 38 39.4 39.82N 26.20E 6 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.8km az=0.9.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=1.9km az=95.0.
DDA Event type ke.
ISC I 27 05 10 16.4–.83 39.42N–.01 26.15E–.02 15–6 115 0-2
ISCJB I 27 05 10 15.9–.44 39.41N–.02 26.11E–.03 9–3 ¶16358416
ATH I 27 05 10 15.9 39.41N 26.16E 19–1 2.8
ISK I 27 05 10 15.9 39.43N 26.16E 12 2.9,2.8L
DDA I 27 05 10 15.5 39.41N 26.11E 22 3.3,2.8L
CSEM I 27 05 10 16.4–.10 39.41N 26.12E 12 2.8,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=176.7.
ATH Error ellipse: s-maj=0.7km s-min=0.7km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=83.0.

ISC	**I**	**27 08 14 32.4–.95**	**38.12N–.02**	**27.19E–.02**	**11–8**		**100**	**0-4**
DDA	I	27 08 14 32.0	38.12N	27.19E	7	2.6L		¶16358417
ATH	I	27 08 14 31.7	38.07N	27.19E	29–0	3.1		
ISCJB	I	27 08 14 32.2–.41	38.11N–.02	27.17E–.03	10–3	3.1		
CSEM	I	27 08 14 32.7–.15	38.12N	27.16E	10	2.6L		
ISK	I	27 08 14 32.1	38.12N	27.24E	6	3.1		
ISC	Event type ke.							
DDA	Event type ke.							
ATH	Error ellipse: s-maj=0.8km s-min=1.7km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=138.3.							
CSEM	Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=56.0.							
ISC	**I**	**27 09 54 27.9–.88**	**40.53N–.03**	**27.22E–.03**	**15–6**		**38**	**0-2**
ISCJB	I	27 09 54 27.8–.50	40.54N–.03	27.22E–.03	13–4			¶16358421
CSEM	I	27 09 54 27.8–.10	40.55N	27.23E	10	2.4		
ISK	I	27 09 54 27.1	40.58N	27.24E	6	2.4L,2.4		
DDA	I	27 09 54 27.8	40.52N	27.25E	7	2.6,2.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=25.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=25.0.							
DDA	Event type ke.							
ISC	**I**	**27 10 21 38.8–1.0**	**37.93N–.03**	**29.14E–.03**	**8–8**		**35**	**0-2**
DDA	I	27 10 21 37.4	37.91N	29.14E	12	2.6		¶16358422
ISCJB	I	27 10 21 38.4–.69	37.92N–.03	29.14E–.04	2–7	2.6		
CSEM	I	27 10 21 38.6–.17	37.94N	29.16E	5	2.7		
ISK	I	27 10 21 38.2	37.94N	29.12E	6	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.3km az=44.5.							
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=131.0.							
ISC	**I**	**27 18 41 25.4–.81**	**37.47N–.02**	**38.73E–.02**	**14–5**		**57**	**0-2**
ISK	I	27 18 41 24.6	37.47N	38.64E	6	2.7		¶16358427
ISCJB	I	27 18 41 25.7–.52	37.49N–.02	38.70E–.03	6–4	2.7		
DDA	I	27 18 41 25.3	37.51N	38.73E	7	2.8		
CSEM	I	27 18 41 25.7–.23	37.49N	38.74E	10	1.9L		
NSSC	I	27 18 41 26.2–1.4	35.74N	40.52E	165–29	1.9L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=173.5.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=88.0.							
NSSC	Error ellipse: s-maj=30.5km s-min=46.3km az=-1.0.							
ISC	**I**	**28 02 06 56.0–.88**	**37.10N–.02**	**35.75E–.02**	**13–7**		**53**	**0-2**
ISCJB	I	28 02 06 55.9–.46	37.11N–.03	35.75E–.03	9–4			¶16358429
DDA	I	28 02 06 55.2	37.09N	35.78E	7	3.0		
ISK	I	28 02 06 55.7	37.12N	35.73E	6	2.7		
CSEM	I	28 02 06 56.0–.16	37.10N	35.76E	10	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=11.0.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=44.0.							
ISC	**I**	**28 03 11 02.5–.94**	**39.26N–.02**	**33.20E–.02**	**8–8**		**59**	**0-2**
ISK	I	28 03 11 01.7	39.26N	33.19E	5	2.7		¶16358430
CSEM	I	28 03 11 02.3–.19	39.26N	33.17E	5	2.7		
DDA	I	28 03 11 02.1	39.28N	33.20E	7	3.0		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=111.0.							
DDA	Event type ke.							
ISC	**I**	**28 07 06 52.6–.96**	**37.39N–.03**	**36.40E–.02**	**12–9**		**52**	**0-2**
ISK	I	28 07 06 51.5	37.36N	36.42E	10	2.7		¶16358432
CSEM	I	28 07 06 52.4–.20	37.41N	36.41E	2	2.7		
DDA	I	28 07 06 52.6	37.39N	36.41E	19	3.0		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=173.0.							
DDA	Event type ke.							
ISC	**I**	**28 08 36 53.6–.89**	**38.42N–.03**	**34.13E–.03**	**11–7**		**30**	**0-1**
ISK	I	28 08 36 52.5	38.48N	34.18E	11	2.5		¶16358433
ISCJB	I	28 08 36 53.6–.52	38.43N–.04	34.09E–.04	2–10	2.5		
CSEM	I	28 08 36 53.5–.24	38.43N	34.12E	10	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.1km s-min=5.1km az=171.1.							
CSEM	Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=28.0.							
ISC	**I**	**28 08 46 51.2–1.3**	**37.91N–.04**	**29.13E–.04**	**10–9**		**22**	**0-1**
ISCJB	I	28 08 46 50.7–.87	37.90N–.05	29.11E–.06	13–6			¶16358434
CSEM	I	28 08 46 50.8–.15	37.90N	29.13E	15	2.5		
ISK	I	28 08 46 50.9	37.92N	29.11E	5	2.5		
DDA	I	28 08 46 51.7	37.98N	29.08E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.5km s-min=5.5km az=140.5.							
CSEM	Event type ke. Error ellipse: s-maj=4.2km s-min=2.3km az=131.0.							
DDA	Event type ke.							
ISC	**I**	**28 10 54 38.2–1.3**	**37.28N–.03**	**37.17E–.03**	**3–11**		**33**	**0-3**
CSEM	I	28 10 54 37.9–.27	37.31N	37.12E	8	3.0		¶16358438
ISK	I	28 10 54 37.0	37.27N	37.16E	4	3.0		
DDA	I	28 10 54 37.7	37.28N	37.17E	6	2.7		
ISCJB	I	28 10 54 38.2–.78	37.29N–.04	37.16E–.05	8–6	2.7		
ISC	Event type ke.							
CSEM	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke.							
ISC	**I**	**28 17 04 50.5–.83**	**38.90N–.03**	**27.82E–.03**	**11–4**		**40**	**0-2**
DDA	I	28 17 04 50.3	38.91N	27.85E	9	2.7		¶16358445
ISK	I	28 17 04 50.8	38.85N	27.90E	5	2.5		
ISCJB	I	28 17 04 51.3–.48	38.87N–.03	27.86E–.04	6–4	2.5		
CSEM	I	28 17 04 51.5–.25	38.87N	27.87E	2	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=43.7.							
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=58.0.							
ISC	**I**	**28 20 13 07.2–1.2**	**39.03N–.03**	**40.49E–.02**	**5–10**		**40**	**1-2**
ISCJB	I	28 20 13 06.9–.59	39.00N–.03	40.49E–.03	3–6			¶16358447
CSEM	I	28 20 13 06.9–.17	39.04N	40.50E	10	2.8		
ISK	I	28 20 13 06.5	39.02N	40.52E	14	2.8		
DDA	I	28 20 13 07.3	38.99N	40.49E	7	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=5.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=168.0.							
DDA	Event type ke.							
ISC	**I**	**28 23 23 59.0–1.4**	**40.24N–.03**	**33.19E–.05**	**1–13**		**34**	**0-2**
ISCJB	I	28 23 23 59.6–.57	40.27N–.03	33.25E–.06	6–7			¶16358453
CSEM	I	28 23 23 59.7–.12	40.26N	33.28E	5	2.3		
DDA	I	28 23 23 59.1	40.26N	33.26E	8	2.3		
ISK	I	28 23 23 59.5	40.27N	33.26E	8	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=4.5km az=28.2.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=110.0.							
DDA	Event type ke.							
ISC	**I**	**29 05 06 12.9–.93**	**40.98N–.04**	**39.92E–.03**	**15–7**		**38**	**0-2**
DDA	I	29 05 06 11.3	41.01N	39.98E	7	2.7		¶16358455
ISCJB	I	29 05 06 13.3–.68	41.00N–.04	39.94E–.04	14–4	2.7		
CSEM	I	29 05 06 13.4–.46	40.97N	39.95E	10	2.0		
ISK	I	29 05 06 14.9	40.93N	39.85E	8	2.0		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=4.5km az=152.1.							
CSEM	Event type ke. Error ellipse: s-maj=10.9km s-min=6.6km az=159.0.							
ISC	**I**	**29 07 32 42.1–.89**	**40.41N–.02**	**26.06E–.01**	**13–7**		**185**	**0-6**
BEO	I	29 07 32 15.2–1.2	39.06N	27.81E	0	4.1		¶16358456
SOF	I	29 07 32 40.5	40.41N	26.02E	1	4.1		
ISCJB	I	29 07 32 41.4–.33	40.43N–.02	26.05E–.02	10–3	4.1		
CSEM	I	29 07 32 41.8–.09	40.42N	26.06E	10	3.4L		
ISK	I	29 07 32 41.1	40.43N	26.07E	10	3.4L		
THE	I	29 07 32 42.5	40.41N	26.03E	16–1	3.3L		
ATH	I	29 07 32 42.2	40.40N	26.10E	4–1	3.2		
DDA	I	29 07 32 42.1	40.37N	26.16E	18	3.4		
ISC	Event type ke.							
BEO	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=11.9.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=16.0.							
THE	Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=18.0.							
ATH	Error ellipse: s-maj=0.3km s-min=0.7km az=-1.0.							
DDA	Event type ke.							
ISC	**I**	**29 07 41 49.0–.97**	**38.18N–.03**	**29.47E–.02**	**9–8**		**36**	**0-1**
ISCJB	I	29 07 41 48.9–.50	38.18N–.03	29.45E–.03	5–7			¶16358457
CSEM	I	29 07 41 48.8–.25	38.18N	29.47E	5	2.5		
DDA	I	29 07 41 48.3	38.17N	29.43E	7	2.7		
ISK	I	29 07 41 48.6	38.19N	29.45E	8	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=179.3.							
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=99.0.							
DDA	Event type ke.							
ISC	**I**	**29 08 46 25.3–.93**	**37.32N–.03**	**38.57E–.03**	**9**		**28**	**0-2**
ISK	I	29 08 46 23.2	37.23N	38.50E	8	2.7		¶16358458
ISCJB	I	29 08 46 25.4–.70	37.30N–.04	38.63E–.06	9	2.7		
CSEM	I	29 08 46 25.2–.33	37.31N	38.59E	10	2.7		
DDA	I	29 08 46 25.4	37.30N	38.62E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.3km s-min=5.2km az=31.1.							
CSEM	Event type ke. Error ellipse: s-maj=8.7km s-min=7.0km az=122.0.							
DDA	Event type ke.							
ISC	**I**	**29 08 55 34.9–1.0**	**39.70N–.04**	**36.21E–.03**	**13–9**		**28**	**0-2**
CSEM	I	29 08 55 34.7–.26	39.69N	36.19E	8	2.9		¶601609234
DDA	I	29 08 55 35.4	39.68N	36.25E	10	2.9		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.6km s-min=4.6km az=177.0.							
DDA	Event type ke.							
ISC	**I**	**29 09 17 35.8–1.3**	**39.06N–.02**	**38.53E–.03**	**3–12**		**32**	**0-1**
ISK	I	29 09 17 34.4	39.10N	38.42E	24	2.3		¶16358459
CSEM	I	29 09 17 35.8–.25	39.06N	38.52E	8	2.3		
DDA	I	29 09 17 35.6	39.03N	38.53E	7	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=91.0.							
DDA	Event type ke.							
ISC	**I**	**29 14 23 33.9–1.2**	**40.96N–.04**	**33.15E–.04**	**12–9**		**36**	**0-2**
ISCJB	I	29 14 23 33.3–1.0	40.98N–.04	33.12E–.05	4–7			¶16358463
CSEM	I	29 14 23 33.9–.27	40.96N	33.14E	8	2.8		
DDA	I	29 14 23 33.7	40.94N	33.22E	7	2.8		
ISK	I	29 14 23 34.2	40.90N	33.11E	16	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=5.7km az=152.6.							
CSEM	Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=157.0.							
DDA	Event type ke.							
ISC	**I**	**29 18 27 34.1–1.0**	**38.20N–.02**	**37.15E–.02**	**7–10**		**50**	**0-2**
DDA	I	29 18 27 33.8	38.19N	37.17E	7	2.9		¶16358466
ISK	I	29 18 27 33.9	38.28N	37.11E	8	2.7		
CSEM	I	29 18 27 34.1–.23	38.21N	37.15E	2	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.7km s-min=4.6km az=39.0.							
ISC	**I**	**29 19 08 52.4–1.0**	**38.21N–.02**	**37.16E–.02**	**8–10**		**55**	**0-2**
ISK	I	29 19 08 51.5	38.22N	37.14E	5	2.8		¶16358468
CSEM	I	29 19 08 52.2–.18	38.21N	37.16E	2	2.8		
DDA	I	29 19 08 52.0	38.18N	37.18E	7	2.9		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.8km az=68.0.							
DDA	Event type ke.							
ISC	**I**	**30 05 23 46.0–.88**	**39.90N–.03**	**39.60E–.03**	**13–7**		**32**	**0-1**
ISK	I	30 05 23 45.1	39.91N	39.58E	5	2.5		¶16358473
DDA	I	30 05 23 45.6	39.92N	39.63E	7	2.7		
ISCJB	I	30 05 23 46.3–.47	39.92N–.03	39.62E–.04	6–6	2.7		
CSEM	I	30 05 23 46.1–.24	39.92N	39.58E	8	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=32.2.							
CSEM	Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=156.0.							
ISC	**I**	**30 08 56 11.4–.78**	**40.63N–.02**	**27.18E–.02**	**14–5**		**113**	**0-3**
ISK	I	30 08 56 10.7	40.63N	27.20E	7	2.8L		¶16358476
DDA	I	30 08 56 10.6	40.56N	27.22E	8	3.3		
ATH	I	30 08 56 11.8	40.69N	27.15E	39–20	3.3		
CSEM	I	30 08 56 11.2–.09	40.63N	27.17E	10	3.3		
ISCJB	I	30 08 56 11.1–.31	40.62N–.02	27.18E–.02	11–2	3.3		
IASPE	I	30 08 56 11.2–.83	40.62N–.02	27.19E–.02	15–5	3.3		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
IASPE	Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
ISC	**I**	**30 09 11 10.3–.91**	**38.74N–.03**	**42.70E–.03**	**8**		**22**	**0-2**
ISCJB	I	30 09 11 10.7–.60	38.72N–.03	42.68E–.05	8			¶601609242
CSEM	I	30 09 11 10.2–.21	38.71N	42.68E	10	2.8		
DDA	I	30 09 11 10.4	38.72N	42.70E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=4.8km az=162.3.							
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=68.0.							
DDA	Event type ke.							
ISC	**I**	**30 10 23 24.6–1.0**	**39.12N–.06**	**40.35E–.04**	**7**		**15**	**1-1**
CSEM	I	30 10 23 23.2–.92	39.06N	40.42E	10	2.8		¶601609245
ISCJB	I	30 10 23 25.5–.93	39.12N–.08	40.29E–.06	7	2.8		
DDA	I	30 10 23 26.2	39.17N	40.32E	11	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=31.9km s-min=13.3km az=157.0.							
ISCJB	Event type ke. Error ellipse: s-maj=12.4km s-min=5.8km az=23.2.							
DDA	Event type ke.							
ISC	**I**	**30 11 33 44.2–.79**	**38.90N–.03**	**27.86E–.03**	**13–4**		**46**	**0-9**
ISK	I	30 11 33 43.8	38.83N	27.86E	12	2.5		¶16358478
DDA	I	30 11 33 43.6	38.92N	27.86E	14	2.7		
IASPE	I	30 11 33 44.1–.92	38.90N–.03	27.86E–.03	13–5	2.7		
ISCJB	I	30 11 33 44.2–.45	38.92N–.03	27.89E–.04	9–4	2.7		
CSEM	I	30 11 33 44.4–.18	38.89N	27.86E	8–1	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
IASPE	Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=60.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=38.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=64.0.							
ISC	**I**	**31 00 52 52.1–.83**	**39.01N–.02**	**27.72E–.02**	**13–6**		**106**	**0-3**
ATH	I	31 00 52 51.8	39.04N	27.72E	22–1	3.2		¶16358483
DDA	I	31 00 52 52.0	38.99N	27.72E	14	3.2		
ISCJB	I	31 00 52 52.1–.40	39.00N–.02	27.69E–.02	3–4	3.2		
CSEM	I	31 00 52 52.5–.08	38.99N	27.70E	5	3.2		
ISK	I	31 00 52 52.0	38.99N	27.69E	6	2.9		
ISC	Event type ke.							
ATH	Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=43.8.							
CSEM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=46.0.							
ISC	**I**	**31 03 38 53.5–1.2**	**37.87N–.02**	**27.66E–.04**	**5–13**		**27**	**0-1**
CSEM	I	31 03 38 53.6–.40	37.87N	27.67E	10	2.4		¶16358487
ISK	I	31 03 38 53.2	37.87N	27.70E	5	2.4		
ISCJB	I	31 03 38 54.1–.65	37.88N–.03	27.8E–.10	15–8	2.4		

DDA I 31 03 38 54.9 37.92N 27.73E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.4km s-min=5.0km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=15.3km s-min=4.4km az=179.0.
DDA Event type ke.
ISC I 31 07 34 36.2–1.2 40.88N–.02 35.01E–.03 0–13 24 1-1
ISK I 31 07 34 36.9 40.91N 34.85E 20 2.3L **¶16358490**
CSEM I 31 07 34 37.0–.23 40.86N 34.88E 8 2.7
DDA I 31 07 34 37.1 40.76N 35.30E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=88.0.
DDA Event type ke.
ISC I 31 08 49 49.5–.97 38.14N–.03 39.05E–.04 15–9 30 0-1
ISCJB I 31 08 49 49.7–.61 38.11N–.03 39.07E–.04 5–8 **¶16358493**
CSEM I 31 08 49 49.8–.28 38.11N 39.08E 8 2.4
ISK I 31 08 49 49.6 38.09N 39.04E 20 2.7
DDA I 31 08 49 49.3 38.12N 39.05E 10 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.9km az=39.6.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=114.0.
DDA Event type ke.
ISC II 01 02 06 27.7–1.1 38.53N–.02 33.87E–.02 8–9 45 0-2
CSEM II 01 02 06 27.6–.16 38.53N 33.88E 8 2.7 **¶16494037**
ISK II 01 02 06 27.1 38.54N 33.89E 11 2.7
DDA II 01 02 06 27.3 38.49N 33.87E 3 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=86.0.
DDA Event type ke.
ISC II 01 03 30 27.8–.91 40.06N–.02 41.98E–.02 8–6 39 0-1
ISK II 01 03 30 24.9 40.22N 42.01E 5 2.9 **¶16494041**
ISCJB II 01 03 30 28.7–.48 40.05N–.03 41.96E–.04 10–4 2.9
CSEM II 01 03 30 28.0–.32 40.03N 41.93E 5 2.7
DDA II 01 03 30 28.9 40.08N 41.92E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=6.1km az=12.0.
DDA Event type ke.
ISC II 01 03 40 44.2–1.2 40.18N–.02 31.68E–.02 1–10 38 0-1
ISK II 01 03 40 39.2 40.41N 32.13E 9 2.7 **¶602000879**
ISCJB II 01 03 40 44.3–.72 40.16N–.04 31.73E–.04 1–8 2.7
DDA II 01 03 40 44.4 40.17N 31.70E 7 2.7
CSEM II 01 03 40 44.4 40.17N 31.70E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=138.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 01 05 55 12.0–1.1 38.35N–.02 37.06E–.02 2–10 85 0-3
ISK II 01 05 55 10.6 38.36N 37.05E 5 3.1 **¶16494043**
CSEM II 01 05 55 12.3–.22 38.36N 37.07E 10 2.9
DDA II 01 05 55 12.0 38.40N 37.12E 24 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=25.0.
DDA Event type ke.
ISC II 01 11 48 06.9–1.1 37.65N–.03 34.70E–.03 7–13 26 0-1
DDA II 01 11 48 06.3 37.65N 34.73E 7 3.0 **¶16494047**
CSEM II 01 11 48 07.1–.35 37.65N 34.69E 5 3.0
ISK II 01 11 48 07.3 37.70N 34.71E 4 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=6.8km az=59.0.
ISK II 01 12 03 15.2 37.88N 38.38E 5 2.5
CSEM II 01 12 03 11.3–.78 37.59N 38.42E 10 2.5 **¶16494048**
CSEM Event type ke. Error ellipse: s-maj=38.0km s-min=15.4km az=57.0.
ISK II 01 12 05 10.7 40.49N 29.90E 10 2.4
CSEM II 01 12 05 10.7 40.49N 29.90E 10 2.4 **¶16494049**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 01 12 16 56.4–1.1 40.50N–.03 35.06E–.04 13–10 23 0-1
ISK II 01 12 16 54.5 40.48N 35.15E 4 2.4 **¶16494050**
CSEM II 01 12 16 55.7–.39 40.51N 35.11E 8 2.7
DDA II 01 12 16 56.4 40.54N 35.01E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.4km s-min=7.0km az=98.0.
DDA Event type ke.
ISC II 01 12 53 29.3–1.5 40.97N–.05 31.56E–.03 6–12 44 0-2
ISK II 01 12 53 28.7 40.99N 31.63E 6 3.0 **¶16494051**
ISCJB II 01 12 53 31.0–.89 40.93N–.06 31.56E–.04 12–5 3.0
CSEM II 01 12 53 31.5–.36 40.86N 31.55E 10 2.7
DDA II 01 12 53 32.1 40.81N 31.55E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.0km az=5.8.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.6km az=5.0.
DDA Event type ke.
ISC II 01 13 53 20.3–1.1 38.82N–.03 35.34E–.02 5–11 48 0-3
CSEM II 01 13 53 19.6–.30 38.79N 35.38E 2 3.2 **¶16494052**
DDA II 01 13 53 19.2 38.77N 35.35E 3 2.9
ISK II 01 13 53 19.8 38.85N 35.33E 6 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=5.8km az=174.0.
DDA Event type ke.
ISC II 01 17 31 47.6–.95 39.90N–.02 37.62E–.02 14–9 48 0-2
ISCJB II 01 17 31 47.8–.46 39.89N–.03 37.66E–.03 12–4 **¶16494055**
CSEM II 01 17 31 47.8–.24 39.89N 37.64E 10 3.1
ISK II 01 17 31 47.0 39.90N 37.71E 9 2.9
DDA II 01 17 31 48.1 39.86N 37.60E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=175.9.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.1km az=175.0.
DDA Event type ke.
ISC II 01 19 11 06.2–1.0 37.89N–.02 27.29E–.02 4–9 129 0-4
DDA II 01 19 11 05.4 37.88N 27.27E 32 3.1 **¶16494056**
ISCJB II 01 19 11 06.0–.44 37.90N–.02 27.30E–.02 3–4 3.1
ISK II 01 19 11 05.8 37.90N 27.31E 5 3.1L
THE II 01 19 11 06.2 37.84N 27.26E 0–1 3.2L
CSEM II 01 19 11 06.3–.14 37.91N 27.29E 2 3.1
ATH II 01 19 11 06.8 37.89N 27.25E 9–2 3.0L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=28.6.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=116.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.2km az=31.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.3km az=249.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 01 20 12 43.7–1.2 38.15N–.04 27.16E–.03 6–14 26 0-1
ISCJB II 01 20 12 43.8–.56 38.14N–.03 27.20E–.04 6–11 **¶16494058**
CSEM II 01 20 12 43.9–.21 38.14N 27.17E 10 2.6
ISK II 01 20 12 43.3 38.14N 27.19E 8 2.6
DDA II 01 20 12 46.7 37.99N 26.99E 11 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=36.8.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=51.0.
DDA Event type ke.
ISC II 02 05 50 58.5–2.1 36.10N–.09 29.16E–.04 9–12 30 0-2
ISCJB II 02 05 50 57.7–1.5 36.02N–.07 29.14E–.06 10–7 **¶16494096**
CSEM II 02 05 50 57.2–.97 35.98N 29.16E 10 3.1
ISK II 02 05 50 58.0 36.08N 29.18E 16 2.8
DDA II 02 05 50 59.8 36.20N 29.13E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.7km az=1.3.
CSEM Event type ke. Error ellipse: s-maj=20.1km s-min=8.6km az=179.0.
DDA Event type ke.
ISC II 02 12 23 55.7–1.1 39.47N–.02 33.50E–.02 2–10 46 0-2
ISK II 02 12 23 53.5 39.53N 33.53E 5 2.6 **¶16494101**
CSEM II 02 12 23 55.9–.22 39.46N 33.47E 2 2.6
DDA II 02 12 23 55.9 39.47N 33.48E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.5km az=9.0.
DDA Event type ke.
ISC II 02 13 37 56.5–.94 37.18N–.04 28.19E–.04 10 22 0-1
ISK II 02 13 37 55.8 37.08N 28.27E 3 2.6 **¶16494102**
ISCJB II 02 13 37 56.0–.71 37.19N–.05 28.24E–.06 10 2.6
DDA II 02 13 37 56.8 37.19N 28.10E 7 2.7
CSEM II 02 13 37 57.0–.47 37.16N 28.21E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.8km az=41.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.3km s-min=8.9km az=32.0.
ISC II 02 14 04 28.6–1.1 36.80N–.05 34.77E–.04 25–8 27 0-2
ISK II 02 14 04 25.3 36.61N 34.77E 21 2.9 **¶16494104**
ISCJB II 02 14 04 28.7–.74 36.84N–.05 34.83E–.06 33–6 2.9
CSEM II 02 14 04 28.6–.71 36.87N 34.79E 10 2.9
DDA II 02 14 04 31.1 36.90N 34.64E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=7.4km az=41.8.
CSEM Event type ke. Error ellipse: s-maj=17.3km s-min=12.6km az=156.0.
DDA Event type ke.
ISC II 02 14 08 18.0–.94 39.48N–.04 35.08E–.03 10 22 0-1
DDA II 02 14 08 13.9 39.29N 35.09E 7 2.9 **¶16494105**
ISCJB II 02 14 08 17.2–.68 39.45N–.05 35.11E–.04 10 2.9
CSEM II 02 14 08 17.6–.36 39.45N 35.08E 2 3.0
ISK II 02 14 08 17.9 39.46N 35.12E 6 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=9.6.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.5km az=2.0.
ISC II 02 15 33 52.3–1.1 39.90N–.03 33.07E–.03 5–9 43 0-2
DDA II 02 15 33 52.0 39.86N 33.06E 7 2.6 **¶16494108**
ISK II 02 15 33 51.1 39.90N 33.06E 5 2.7
CSEM II 02 15 33 52.0–.16 39.92N 33.08E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=38.0.
DDA II 02 17 08 32.7 38.56N 27.83E 7 2.4
CSEM II 02 17 08 32.7 38.56N 27.83E 7 2.4 **¶601609304**
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 02 17 35 15.6–1.1 39.23N–.05 41.64E–.03 19–3 20 0-1
CSEM II 02 17 35 13.1–.63 39.06N 41.48E 36–3 2.6 **¶16494109**
ISK II 02 17 35 14.2 39.15N 41.52E 31 2.6
ISCJB II 02 17 35 16.3–.77 39.21N–.05 41.67E–.07 22–10 2.6
DDA II 02 17 35 18.2 39.25N 41.57E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.7km s-min=6.5km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=8.0km az=4.7.
DDA Event type ke.
ISC II 02 18 48 40.5–1.1 39.56N–.03 38.13E–.02 8–9 38 0-1
ISK II 02 18 48 34.1 40.09N 38.48E 4 2.8 **¶16494111**
CSEM II 02 18 48 40.7–.17 39.55N 38.15E 2 2.8
DDA II 02 18 48 40.8 39.58N 38.13E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=177.0.
DDA Event type ke.
ISC II 02 20 01 44.7–.90 41.37N–.02 33.77E–.02 9–7 98 0-3
ISK II 02 20 01 43.6 41.37N 33.76E 5 2.8L **¶16494112**
CSEM II 02 20 01 44.8–.18 41.37N 33.76E 2 3.1
DDA II 02 20 01 44.0 41.34N 33.78E 14 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=149.0.
DDA Event type ke.
ISC II 02 21 12 12.1–1.9 37.70N–.06 44.0E–.10 11–9 25 0-2
CSEM II 02 21 12 12.9–1.1 37.66N 43.97E 10 2.6 **¶16494113**
ISK II 02 21 12 13.1 37.67N 43.86E 10 2.5
DDA II 02 21 12 14.8 37.72N 43.86E 6 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=24.4km s-min=9.4km az=98.0.
DDA Event type ke.
ISC II 03 03 16 22.2–.92 39.11N–.02 29.07E–.02 11–10 40 0-2
DDA II 03 03 16 21.9 39.10N 29.07E 7 2.7 **¶16494117**
ISK II 03 03 16 21.6 39.11N 29.10E 5 2.8
ISCJB II 03 03 16 22.0–.53 39.10N–.03 29.07E–.04 5–6 2.8
CSEM II 03 03 16 22.1–.09 39.11N 29.06E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=145.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=123.0.
ISC II 03 06 16 18.2–.94 38.80N–.02 27.16E–.02 15–8 70 0-2
DDA II 03 06 16 17.5 38.80N 27.16E 7 2.6 **¶16494121**
ATH II 03 06 16 17.3 38.80N 27.22E 29–5 2.5L
ISK II 03 06 16 17.7 38.77N 27.15E 16 2.7
ISCJB II 03 06 16 18.1–.42 38.79N–.02 27.15E–.02 7–4 2.7
CSEM II 03 06 16 18.4–.15 38.78N 27.16E 12 2.7
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.8km s-min=2.2km az=37.0. Analyst: diakogianni ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=5.3.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=3.0.
ISC II 03 06 17 19.4–.93 38.77N–.02 27.13E–.02 13–8 70 0-2
DDA II 03 06 17 18.4 38.79N 27.15E 7 2.7 **¶16494122**
ISCJB II 03 06 17 19.2–.42 38.79N–.02 27.13E–.03 7–4 2.7
CSEM II 03 06 17 19.5–.12 38.78N 27.15E 10 2.7
ISK II 03 06 17 19.2 38.80N 27.14E 10 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.5km az=153.8.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=18.0.
ISC II 03 06 18 04.4–.92 38.63N–.03 27.59E–.04 11 32 0-2
DDA II 03 06 17 55.9 38.80N 27.16E 7 2.6 **¶16494125**
ISCJB II 03 06 18 05.1–.57 38.67N–.03 27.57E–.06 11 2.6
CSEM II 03 06 18 05.3–.12 38.74N 27.48E 2 2.4
ISK II 03 06 18 05.2 38.75N 27.50E 6 2.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.8km az=8.6.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=54.0.
ISC II 03 06 25 17.2–.95 38.79N–.02 27.15E–.02 15–9 62 0-2
DDA II 03 06 25 16.6 38.80N 27.15E 7 2.7 **¶16494127**
ISK II 03 06 25 16.8 38.78N 27.15E 10 2.7L
ISCJB II 03 06 25 17.0–.47 38.79N–.03 27.14E–.03 7–4 2.7L
CSEM II 03 06 25 17.3–.12 38.78N 27.15E 10 2.7L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=33.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=27.0.
DDA II 03 07 33 26.4 38.76N 43.64E 7 2.7
CSEM II 03 07 33 26.6–.51 38.75N 43.64E 2 2.7 **¶601609312**
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=5.1km az=103.0.
ISC II 03 10 06 03.3–1.2 40.71N–.02 34.90E–.03 4–11 43 0-2
CSEM II 03 10 06 03.5–.22 40.72N 34.92E 10 2.7 **¶16494132**
DDA II 03 10 06 03.2 40.74N 34.86E 7 2.7
ISK II 03 10 06 03.0 40.71N 34.98E 6 2.7
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.7km az=118.0.
DDA Event type ke.
ISC II 03 10 41 17.9–1.0 39.95N–.02 42.46E–.03 4–9 41 0-4
ISN II 03 10 41 04.1–1.9 40.59N 42.05E 0 2.9L ¶16358514
DDA II 03 10 41 16.9 39.97N 42.44E 5 2.3
ISCJB II 03 10 41 18.0–.45 39.97N–.03 42.47E–.03 3–8 2.3
ISK II 03 10 41 17.6 39.95N 42.50E 13 2.6
CSEM II 03 10 41 17.3–.18 39.94N 42.43E 5 2.3
ISC Event type ke.
ISN Error ellipse: s-maj=29.8km s-min=8.1km az=-1.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=148.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=72.0.
ISC II 03 10 41 40.2–.97 39.97N–.03 42.46E–.03 6–8 35 0-4
ISN II 03 10 41 36.3–1.1 39.93N 42.71E 0 2.9L ¶16358517
DDA II 03 10 41 40.4 39.95N 42.45E 7 2.9
CSEM II 03 10 41 40.7–.17 39.94N 42.41E 2 2.9
ISCJB II 03 10 41 41.1–.50 39.97N–.03 42.46E–.04 4–8 2.9
ISK II 03 10 41 41.1 39.95N 42.47E 12 2.8
ISC Event type ke.
ISN Error ellipse: s-maj=17.7km s-min=2.1km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=36.6.
ISC II 03 12 44 23.9–1.0 39.07N–.04 37.42E–.03 10 22 0-1
CSEM II 03 12 44 22.9–.36 39.12N 37.39E 10 2.6 ¶16494133
ISK II 03 12 44 22.9 39.50N 37.37E 20 2.9
ISCJB II 03 12 44 23.4–.62 39.11N–.04 37.46E–.04 10 2.9
DDA II 03 12 44 23.6 39.12N 37.30E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=7.3km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=154.4.
DDA Event type ke.
ISC II 03 13 05 58.0–1.0 37.26N–.04 37.16E–.03 12–8 31 0-2
ISK II 03 13 05 57.3 37.25N 37.16E 7 2.9 ¶16494134
ISCJB II 03 13 05 58.3–.59 37.23N–.04 37.14E–.03 9–4 2.9
CSEM II 03 13 05 58.0–.45 37.31N 37.16E 10 3.0L
DDA II 03 13 05 58.0 37.28N 37.16E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=8.1.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=10.9km az=172.0.
DDA Event type ke.
ISC II 03 13 56 52.0–.99 38.57N–.04 28.64E–.03 7–8 22 0-1
DDA II 03 13 56 49.2 38.58N 28.35E 7 2.7 ¶16494135
ISCJB II 03 13 56 51.9–.95 38.58N–.05 28.66E–.05 7–11 2.7
ISK II 03 13 56 51.1 38.60N 28.68E 4 2.5
CSEM II 03 13 56 52.3–.14 38.58N 28.64E 2 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.0km az=18.4.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=40.0.
ISC II 03 15 27 49.8–1.1 38.43N–.02 39.24E–.02 4–8 3.8b 208 0-48
DDA II 03 15 27 49.0 38.46N 39.22E 19 4.1L ¶16397514
ISK II 03 15 27 49.5 38.46N 39.18E 4 4.2L
IDC II 03 15 27 49.6–.86 38.57N 39.18E 0 3.7,3.7b
CSEM II 03 15 27 50.0–.13 38.42N 39.24E 2 4.2L,3.7b
NSSC II 03 15 27 52.1–1.4 38.14N 39.22E 0–18 3.5L,3.7b
ISN II 03 15 28 13.5–1.8 36.28N 40.03E 0–43 4.0L,3.7b
ISC Event type ke.
DDA Event type ke.
IDC Error ellipse: s-maj=17.0km s-min=10.5km az=152.0.
CSEM Event type ke.
NSSC Error ellipse: s-maj=30.4km s-min=10.4km az=-1.0.
ISN Error ellipse: s-maj=10.4km s-min=88.9km az=-1.0.
ISC II 03 15 39 30.8–1.3 38.59N–.05 39.08E–.05 13–9 13 0-2
ISCJB II 03 15 39 31.0–.96 38.52N–.07 39.18E–.07 11–8 ¶601609331
CSEM II 03 15 39 30.3–.32 38.57N 39.07E 15 2.6
DDA II 03 15 39 30.4 38.58N 39.02E 20 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=7.1km az=148.6.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=8.3km az=141.0.
DDA Event type ke.
ISC II 03 15 44 58.5–1.2 40.59N–.03 30.40E–.03 2–11 34 0-1
ISK II 03 15 44 57.9 40.63N 30.43E 11 2.6 ¶16494141
ISCJB II 03 15 44 59.0–.53 40.60N–.04 30.39E–.05 10–7 2.6
CSEM II 03 15 44 58.8–.24 40.58N 30.39E 10 2.6
DDA II 03 15 44 59.3 40.60N 30.37E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.5km az=138.5.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=5.2km az=99.0.
DDA Event type ke.
ISC II 03 20 29 12.5–.93 37.86N–.03 27.35E–.03 11–8 34 0-1
ISK II 03 20 29 11.9 37.83N 27.37E 12 2.6 ¶16494142
ISCJB II 03 20 29 12.4–.74 37.88N–.05 27.30E–.05 5–11 2.6
CSEM II 03 20 29 12.4–.25 37.87N 27.35E 8 2.6
DDA II 03 20 29 12.3 37.87N 27.30E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.7km az=161.2.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=106.0.
DDA Event type ke.
ISC II 03 21 26 44.4–1.1 37.89N–.02 27.32E–.03 4–12 36 0-2
ISCJB II 03 21 26 44.8–.60 37.88N–.03 27.27E–.04 8–7 ¶16494143
CSEM II 03 21 26 44.5–.26 37.91N 27.25E 2 2.6
DDA II 03 21 26 44.2 37.87N 27.30E 7 2.6
ISK II 03 21 26 44.5 37.88N 27.32E 9 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=148.2.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=94.0.
DDA Event type ke.
ISC II 03 22 48 20.0–1.2 37.59N–.03 37.28E–.03 4–14 29 0-1
ISCJB II 03 22 48 19.7–.55 37.58N–.03 37.27E–.05 1–9 ¶16494144
CSEM II 03 22 48 19.5–.35 37.59N 37.23E 2 2.6
DDA II 03 22 48 20.2 37.54N 37.26E 7 2.6
ISK II 03 22 48 20.0 37.62N 37.30E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.1km az=32.9.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=6.6km az=101.0.
DDA Event type ke.
ISC II 03 22 54 55.2–1.1 37.91N–.02 27.29E–.03 6–10 48 0-2
ISCJB II 03 22 54 55.3–.51 37.90N–.03 27.29E–.04 6–6 ¶16494145
CSEM II 03 22 54 55.3–.23 37.93N 27.27E 2 2.6
DDA II 03 22 54 55.0 37.88N 27.30E 7 2.6
ISK II 03 22 54 55.2 37.91N 27.34E 9 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.5km az=172.9.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.6km az=94.0.
DDA Event type ke.
ISC II 04 08 02 59.7–1.0 38.17N–.02 29.48E–.02 6–9 78 0-2
DDA II 04 08 02 59.5 38.18N 29.44E 7 3.0 ¶16494197
ISK II 04 08 02 59.2 38.14N 29.44E 5 3.1L
CSEM II 04 08 03 00.3–.18 38.17N 29.47E 2 3.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=164.0.
ISC II 04 10 59 18.3–1.0 37.90N–.02 27.32E–.03 7–11 42 0-2
ISCJB II 04 10 59 18.4–.53 37.89N–.03 27.30E–.04 9–5 ¶16494201
CSEM II 04 10 59 18.6–.16 37.90N 27.33E 8 2.8
DDA II 04 10 59 18.1 37.89N 27.29E 7 2.8
ISK II 04 10 59 18.4 37.89N 27.37E 13 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=25.5.

CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=96.0.
DDA Event type ke.
ISC II 04 11 21 58.9–1.1 38.10N–.02 38.59E–.02 5–9 144 1-4
NSSC II 04 11 21 53.9–3.3 38.46N 38.73E 0–45 ¶601710372
ISK II 04 11 21 57.6 38.10N 38.56E 5 3.6L
DDA II 04 11 21 58.8 38.12N 38.57E 15 3.5L
CSEM II 04 11 21 59.0–.13 38.10N 38.61E 2 3.5L
ISC Event type ke.
NSSC Error ellipse: s-maj=80.9km s-min=11.7km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=3.1km az=141.0.
DDA II 04 11 27 27.8 37.87N 27.26E 7 2.7
CSEM II 04 11 27 27.6–.27 37.88N 27.26E 15 2.7 ¶16494203
ISK II 04 11 27 27.3 37.91N 27.34E 17 2.8
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=76.0.
ISC II 04 12 29 48.2–1.2 40.67N–.03 37.78E–.03 1–12 32 0-2
ISK II 04 12 29 46.1 40.75N 37.75E 6 2.4 ¶16494204
CSEM II 04 12 29 47.2–.60 40.76N 37.75E 2 2.6
ISCJB II 04 12 29 50.4–.78 40.56N–.04 37.76E–.05 1–9 2.6
DDA II 04 12 29 50.9 40.56N 37.79E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.7km s-min=5.6km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=37.2.
DDA Event type ke.
ISC II 04 12 42 31.8–1.1 38.40N–.03 37.63E–.03 8–10 29 0-2
ISK II 04 12 42 30.8 38.39N 37.59E 7 2.9 ¶16494205
CSEM II 04 12 42 31.4–.38 38.41N 37.64E 5 2.9
DDA II 04 12 42 31.3 38.43N 37.71E 9 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.2km s-min=8.2km az=35.0.
DDA Event type ke.
ISC II 04 13 24 34.7–1.1 38.87N–.04 35.83E–.03 7–7 22 0-2
DDA II 04 13 24 32.4 38.79N 35.66E 7 2.8 ¶16494206
ISK II 04 13 24 33.6 38.90N 35.92E 3 2.6
CSEM II 04 13 24 34.6–.34 38.86N 35.87E 2 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=6.7km az=23.0.
ISC II 04 17 53 38.9–.99 40.76N–.02 34.11E–.02 12–9 38 0-2
ISK II 04 17 53 37.7 40.78N 34.12E 5 3.0 ¶16494212
CSEM II 04 17 53 38.6–.16 40.76N 34.11E 2 2.6
DDA II 04 17 53 38.4 40.76N 34.12E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.2km az=105.0.
DDA Event type ke.
ISC II 04 21 50 28.6–1.3 37.87N–.04 42.56E–.03 1–11 29 0-2
CSEM II 04 21 50 28.6–.30 37.83N 42.59E 2 2.8 ¶16494214
DDA II 04 21 50 28.8 37.89N 42.46E 2 2.6
ISK II 04 21 50 29.4 37.74N 42.66E 17 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.7km az=130.0.
DDA Event type ke.
ISC II 04 23 12 10.9–.95 37.89N–.02 27.34E–.02 9–7 3.8b,3.8s 157 0-95
ATH II 04 23 12 09.1 37.91N 27.33E 8–2 3.5L,3.8s ¶16397623
IDC II 04 23 12 09.6–.92 37.71N 27.35E 0 3.7b,3.7
DDA II 04 23 12 10.4 37.88N 27.34E 5 3.4,3.7
THE II 04 23 12 11.8 37.85N 27.22E 0–1 3.5L,3.7
ISK II 04 23 12 11.6 37.84N 27.37E 5 3.8L,3.7
ISCJB II 04 23 12 11.9–.51 37.85N–.02 27.30E–.02 6–4 3.8s,3.6b
CSEM II 04 23 12 12.3–.15 37.82N 27.27E 2 3.5L,3.6b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.3km az=245.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=22.8km s-min=14.9km az=139.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=149.5.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=74.0.
ISC II 05 01 35 13.2–1.1 37.24N–.02 27.68E–.02 3–10 88 0-3
DDA II 05 01 35 12.3 37.28N 27.68E 6 3.0 ¶16494217
ISK II 05 01 35 12.8 37.24N 27.66E 6 2.9
CSEM II 05 01 35 13.3–.22 37.23N 27.69E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=103.0.
ISC II 05 01 50 15.1–1.1 37.22N–.02 27.68E–.02 4–10 70 0-3
ISK II 05 01 50 13.9 37.25N 27.64E 5 2.9 ¶16494218
DDA II 05 01 50 14.0 37.26N 27.69E 5 2.8
CSEM II 05 01 50 15.4–.19 37.22N 27.69E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=114.0.
ISC II 05 02 06 30.9–1.3 37.76N–.04 29.18E–.04 7–10 38 0-1
ISK II 05 02 06 30.1 37.77N 29.18E 11 2.8 ¶16494219
DDA II 05 02 06 31.0 37.78N 29.11E 7 2.6
CSEM II 05 02 06 31.0–.45 37.76N 29.18E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=4.1km az=131.0.
ISC II 05 02 37 53.1–.87 37.87N–.01 27.24E–.01 9–6 4.0b 265 0-75
DDA II 05 02 37 52.0 37.84N 27.25E 21 4.1L ¶16160368
ATH II 05 02 37 52.1 37.86N 27.24E 26–1 3.9L
ISK II 05 02 37 53.8 37.83N 27.34E 5 4.1L
NEIC II 05 02 37 53.0 37.84N 27.36E 5 4.1L,4.0L
THE II 05 02 37 53.4 37.86N 27.25E 0–1 4.0L,4.0L
ISCJB II 05 02 37 54.2–.40 37.80N–.02 27.19E–.02 14–3 3.8b,4.0L
CSEM II 05 02 37 54.5–.14 37.74N 27.16E 10 4.1L,4.0L
IDC II 05 02 37 56.8–2.2 37.61N 27.53E 33–19 3.9,3.8
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=247.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
NEIC Event type se. After ISK.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=37.5.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=56.0.
IDC Error ellipse: s-maj=16.1km s-min=10.4km az=149.0.
ISC II 05 03 03 59.3–.96 37.26N–.02 36.60E–.02 19–2 50 0-2
ISK II 05 03 03 56.5 37.25N 36.74E 2 2.6 ¶16494223
CSEM II 05 03 03 58.7–.37 37.31N 36.57E 5 1.7L
NSSC II 05 03 03 58.4–1.6 37.12N 36.04E 7–19 1.7L
DDA II 05 03 03 58.6 37.35N 36.51E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=6.4km az=97.0.
NSSC Error ellipse: s-maj=15.0km s-min=22.0km az=-1.0.
DDA Event type ke.
ISC II 05 05 29 05.7–1.0 37.13N–.03 27.80E–.02 8–13 24 0-1
CSEM II 05 05 29 05.8–.50 37.13N 27.79E 10 2.3 ¶16494224
ISK II 05 05 29 05.7 37.22N 27.70E 19 2.6
DDA II 05 05 29 06.6 37.19N 27.74E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=9.3km az=173.0.
DDA Event type ke.
ISC II 05 07 17 01.7–.89 37.93N–.02 29.07E–.02 10–7 207 0-40
IDC II 05 07 17 00.2–1.5 37.90N 29.17E 0 3.7,3.6 ¶16397642
DDA II 05 07 17 00.6 37.91N 29.05E 10 4.0L,3.6
ISK II 05 07 17 01.7 37.80N 29.02E 5 3.6L,3.6
CSEM II 05 07 17 03.4–.13 37.79N 29.00E 5 4.0L,3.6
THE II 05 07 17 04.9 37.96N 28.94E 16–4 3.5L,3.6
ATH II 05 07 17 04.0 37.97N 28.88E 46–52 3.4L,3.6

ISC Event type ke.
IDC Error ellipse: s-maj=23.0km s-min=18.0km az=60.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=118.0.
THE Event type ke. Error ellipse: s-maj=4.8km s-min=1.0km az=54.0.
ATH Event type ke. Error ellipse: s-maj=52.5km s-min=1.7km az=0.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**II**	**05 16 08 42.7–1.0**	**37.20N–.04**	**27.67E–.03**	**18–6**		**30**	**0-2**	
ISK	II	05 16 08 41.8	37.24N	27.64E	5	2.6			¶16494226
CSEM	II	05 16 08 43.3–.27	37.21N	27.65E	5	2.6			
DDA	II	05 16 08 43.1	37.25N	27.63E	7	2.6			

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=133.0.
DDA Event type ke.

ISC	**II**	**05 16 11 27.7–1.1**	**37.90N–.02**	**27.35E–.03**	**6–11**		**33**	**0-1**	
ISK	II	05 16 11 26.8	37.90N	27.34E	5	2.5			¶16494227
ISCJB	II	05 16 11 27.5–.54	37.90N–.03	27.36E–.05	2–9	2.5			
CSEM	II	05 16 11 27.4–.18	37.91N	27.35E	5	2.6			
DDA	II	05 16 11 28.1	37.95N	27.40E	7	2.6			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=172.9.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=96.0.
DDA Event type ke.

ISC	**II**	**05 20 40 15.9–1.4**	**37.97N–.04**	**29.01E–.04**	**0–15**		**19**	**0-1**	
ISK	II	05 20 40 14.8	37.95N	29.02E	5	2.5			¶16494233
CSEM	II	05 20 40 15.6–.59	37.95N	29.07E	5	2.5			
DDA	II	05 20 40 15.2	37.98N	29.00E	7	2.6			

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.9km s-min=9.9km az=129.0.
DDA Event type ke.

ISC	**II**	**05 20 53 37.6–1.0**	**37.91N–.02**	**27.30E–.02**	**6–10**		**52**	**0-2**	
ISK	II	05 20 53 36.9	37.91N	27.33E	3	2.8			¶16494235
ISCJB	II	05 20 53 37.5–.44	37.91N–.02	27.29E–.03	5–4	2.8			
CSEM	II	05 20 53 37.6–.22	37.90N	27.35E	2	2.9			
DDA	II	05 20 53 37.6	37.93N	27.23E	10	2.9			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=167.6.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=100.0.
DDA Event type ke.

ISC	**II**	**06 02 08 59.3–1.0**	**37.86N–.01**	**27.29E–.01**	**3–7**	**3.6b,3.2s**	**397**	**0-82**	
ATH	II	06 02 08 58.0	37.88N	27.34E	21–1	3.9L,3.2s			¶16008977
IDC	II	06 02 08 58.9–.77	37.65N	27.45E	0	3.8,3.8			
DDA	II	06 02 08 58.1	37.86N	27.25E	23	4.1L,3.8			
ISCJB	II	06 02 08 59.1–.38	37.85N–.01	27.20E–.02	7–3	3.5b,3.3s			
THE	II	06 02 08 59.2	37.86N	27.25E	0–1	4.1L,3.3s			
NEIC	II	06 02 08 59.1	37.81N	27.25E	0	4.2L,4.1L			
CSEM	II	06 02 08 59.1–.12	37.86N	27.26E	2	4.1L,4.1L			
ISK	II	06 02 09 00.6	37.80N	27.21E	8	4.2L,4.1L			

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=244.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=15.6km s-min=14.0km az=173.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=42.9.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=84.0.
NEIC Event type se. After ISK.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=67.0.

ISC	**II**	**06 02 56 12.7–1.1**	**37.91N–.03**	**27.27E–.03**	**6–11**		**24**	**0-1**	
ISCJB	II	06 02 56 12.9–.56	37.90N–.03	27.26E–.04	5–12				¶16494242
CSEM	II	06 02 56 12.7–.76	37.91N	27.21E	2	2.7			
DDA	II	06 02 56 12.9	37.88N	27.24E	7	2.7			
ISK	II	06 02 56 13.4	37.90N	27.34E	7	2.7			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=158.5.
CSEM Event type ke. Error ellipse: s-maj=14.5km s-min=8.6km az=121.0.
DDA Event type ke.

ISC	**II**	**06 03 25 58.8–1.0**	**37.96N–.03**	**29.03E–.04**	**8–9**		**32**	**0-1**	
DDA	II	06 03 25 57.9	37.91N	29.07E	7	2.6			¶16494244
ISK	II	06 03 25 57.6	37.94N	29.02E	5	2.7			
ISCJB	II	06 03 25 58.3–.82	37.91N–.04	29.06E–.04	0–8	2.7			
CSEM	II	06 03 25 58.3–.38	37.93N	29.08E	8	2.6			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.6km az=143.2.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.0km az=125.0.

ISC	**II**	**06 05 12 18.3–1.2**	**37.90N–.03**	**27.26E–.04**	**4–13**		**31**	**0-1**	
DDA	II	06 05 12 17.6	37.92N	27.24E	7	2.6			¶16494247
ISCJB	II	06 05 12 18.6–.78	37.89N–.03	27.26E–.06	6–9	2.6			
ISK	II	06 05 12 18.9	37.89N	27.35E	9	2.5			
CSEM	II	06 05 12 19.0–.34	37.90N	27.29E	2	2.6			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.6km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.9km az=96.0.

ISC	**II**	**06 05 35 45.1–1.1**	**37.92N–.04**	**27.27E–.04**	**26–12**		**22**	**0-1**	
ISK	II	06 05 35 44.5	37.88N	27.27E	15	2.4			¶16494248
ISCJB	II	06 05 35 45.5–.91	37.92N–.04	27.26E–.06	28–13	2.4			
CSEM	II	06 05 35 45.3–.41	37.94N	27.26E	30	2.4			
DDA	II	06 05 35 45.8	37.91N	27.25E	28	2.6			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.9km az=42.5.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=8.5km az=74.0.
DDA Event type ke.

ISC	**II**	**06 06 14 47.5–1.1**	**37.87N–.03**	**27.25E–.03**	**8–11**		**30**	**1-1**	
ISCJB	II	06 06 14 47.7–.71	37.87N–.04	27.26E–.06	9–8				¶16494249
CSEM	II	06 06 14 47.9–.22	37.88N	27.27E	15	2.4			
ISK	II	06 06 14 47.1	37.87N	27.29E	10	2.4			
DDA	II	06 06 14 48.1	37.87N	27.24E	7	2.7			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.0km az=151.5.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=3.9km az=48.0.
DDA Event type ke.

ISC	**II**	**06 09 11 20.6–.92**	**39.24N–.03**	**41.67E–.03**	**12–8**		**35**	**0-2**	
ISCJB	II	06 09 11 20.9–.61	39.23N–.03	41.65E–.04	13–4				¶16494250
CSEM	II	06 09 11 20.5–.19	39.24N	41.68E	12	2.8			
DDA	II	06 09 11 20.3	39.22N	41.66E	12	2.8			
ISK	II	06 09 11 20.2	39.20N	41.67E	14	2.8			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=152.4.
CSEM Event type ke.
DDA Event type ke.

ISC	**II**	**06 09 25 11.0–.85**	**37.89N–.02**	**27.24E–.02**	**16–7**		**59**	**0-3**	
DDA	II	06 09 25 10.3	37.90N	27.27E	7	2.6			¶16494251
ISK	II	06 09 25 10.9	37.90N	27.25E	10	2.6			
ISCJB	II	06 09 25 11.2–.46	37.89N–.02	27.22E–.03	10–4	2.6			
CSEM	II	06 09 25 11.2–.27	37.88N	27.20E	2	2.6			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.1km az=47.0.

DDA	**II**	**06 09 55 29.9**	**39.74N**	**29.44E**	**9**	**2.8**			
CSEM	II	06 09 55 30.6–.60	39.90N	29.47E	10	2.8			¶601609437

DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=26.0km s-min=11.9km az=2.0.

DDA	**II**	**06 11 06 10.7**	**37.36N**	**38.54E**	**7**	**2.3**			
									¶601609441

DDA Event type ke.

ISC	**II**	**06 11 46 52.5–1.1**	**39.28N–.02**	**39.78E–.03**	**18–5**		**42**	**0-2**	
DDA	II	06 11 46 52.6	39.26N	39.76E	7	2.6			¶16494260
ISK	II	06 11 46 52.0	39.36N	39.49E	26	2.6			
CSEM	II	06 11 46 53.1–.14	39.27N	39.80E	2	2.6			

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=89.0.

ISC	**II**	**06 12 17 54.7–.88**	**40.73N–.02**	**29.14E–.02**	**12–6**		**77**	**0-2**	
DDA	II	06 12 17 54.0	40.75N	29.14E	18	2.6			¶16494261
ISCJB	II	06 12 17 54.5–.37	40.74N–.02	29.14E–.03	6–4	2.6			
CSEM	II	06 12 17 54.7–.07	40.73N	29.14E	8	2.6			
ISK	II	06 12 17 54.1	40.72N	29.15E	8	2.7			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=33.7.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=132.0.

ISC	**II**	**06 13 19 26.1–.91**	**37.88N–.02**	**27.26E–.03**	**10–9**		**34**	**0-1**	
ISCJB	II	06 13 19 26.2–.50	37.87N–.03	27.26E–.04	9–5				¶16494264
CSEM	II	06 13 19 26.4–.26	37.87N	27.26E	10	2.5			
DDA	II	06 13 19 26.3	37.85N	27.23E	7	2.5			
ISK	II	06 13 19 26.0	37.90N	27.28E	13	2.2,1.9L			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.3km az=162.1.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=66.0.
DDA Event type ke.

ISC	**II**	**06 14 15 08.7–.81**	**40.73N–.02**	**29.14E–.02**	**13–5**		**98**	**0-2**	
DDA	II	06 14 15 07.7	40.75N	29.13E	18	2.5			¶16494266
ISCJB	II	06 14 15 08.6–.31	40.73N–.02	29.14E–.03	7–3	2.5			
CSEM	II	06 14 15 08.8–.08	40.73N	29.15E	8	2.5			
ISK	II	06 14 15 08.2	40.74N	29.14E	6	2.6,2.2L			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=10.3.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=86.0.

ISC	**II**	**06 14 16 40.1–.83**	**40.73N–.02**	**29.17E–.02**	**16–6**		**64**	**0-2**	
ISK	II	06 14 16 39.8	40.73N	29.19E	13	2.5			¶16494267
ISCJB	II	06 14 16 40.5–.37	40.73N–.02	29.18E–.03	5–4	2.5			
CSEM	II	06 14 16 40.5–.10	40.73N	29.17E	8	2.3			
DDA	II	06 14 16 40.1	40.75N	29.15E	18	2.3			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=139.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=16.0.
DDA Event type ke.

ISC	**II**	**06 14 31 27.7–.86**	**37.88N–.02**	**27.25E–.02**	**14–7**		**47**	**0-2**	
ISCJB	II	06 14 31 27.9–.49	37.88N–.03	27.23E–.03	11–5				¶16494269
ISK	II	06 14 31 27.2	37.88N	27.27E	14	2.9,2.5L			
DDA	II	06 14 31 28.0	37.92N	27.22E	6	2.9,2.5L			
CSEM	II	06 14 31 27.7–.14	37.87N	27.25E	12	2.9,2.5L			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=39.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=80.0.

ISC	**II**	**06 14 52 47.6–.80**	**40.75N–.02**	**29.22E–.02**	**15–5**		**110**	**0-3**	
DDA	II	06 14 52 46.8	40.78N	29.24E	19	2.8			¶16494271
ISCJB	II	06 14 52 47.6–.30	40.75N–.02	29.22E–.02	9–3	2.8			
CSEM	II	06 14 52 47.8–.09	40.75N	29.22E	10	2.8			
ISK	II	06 14 52 47.4	40.74N	29.21E	8	2.8,2.4L			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=18.0.

ISC	**II**	**06 17 51 45.0–.95**	**39.50N–.05**	**32.86E–.03**	**15–6**		**28**	**0-1**	
ISK	II	06 17 51 43.1	39.63N	32.82E	11	2.6			¶16494274
CSEM	II	06 17 51 44.9–.22	39.51N	32.88E	12	2.8			
DDA	II	06 17 51 44.7	39.47N	32.86E	7	2.8			
ISCJB	II	06 17 51 45.4–.69	39.51N–.05	32.86E–.04	10–6	2.8			

ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.

ISC	**II**	**06 17 54 24.4–1.6**	**37.08N–.07**	**40.73E–.03**	**6–13**		**37**	**0-2**	
DDA	II	06 17 54 23.4	37.07N	40.69E	7	2.9			¶16494275
ISCJB	II	06 17 54 24.6–1.2	37.11N–.05	40.72E–.03	7–6	2.9			
CSEM	II	06 17 54 24.0–.34	37.07N	40.75E	2	2.8			
ISK	II	06 17 54 25.2	37.19N	40.73E	10	2.8			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.7km az=175.8.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=2.0.

ISC	**II**	**06 19 20 14.3–1.0**	**37.88N–.02**	**27.29E–.03**	**7–9**		**34**	**0-1**	
CSEM	II	06 19 20 14.8–.33	37.89N	27.23E	10	2.6			¶16494278
DDA	II	06 19 20 14.6	37.88N	27.24E	7	2.6			
ISK	II	06 19 20 14.3	37.89N	27.22E	9	2.4			

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=5.7km az=63.0.
DDA Event type ke.

ISC	**II**	**06 20 28 36.8–.86**	**37.86N–.02**	**27.31E–.02**	**13–7**		**49**	**0-1**	
ISCJB	II	06 20 28 37.0–.44	37.88N–.03	27.30E–.03	11–4				¶16494279
CSEM	II	06 20 28 36.9–.19	37.88N	27.32E	12	2.7			
ISK	II	06 20 28 36.6	37.90N	27.34E	13	2.5			
DDA	II	06 20 28 37.9	37.88N	27.23E	8	2.7			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=33.2.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=55.0.
DDA Event type ke.

ISC	**II**	**06 20 41 47.0–1.2**	**37.70N–.04**	**36.61E–.04**	**8–10**		**26**	**0-2**	
CSEM	II	06 20 41 45.6–.47	37.86N	36.54E	5	2.6			¶16494281
ISK	II	06 20 41 45.8	37.68N	36.67E	5	2.6			
ISCJB	II	06 20 41 47.3–.64	37.70N–.03	36.59E–.04	2–6	2.6			
DDA	II	06 20 41 47.4	37.70N	36.60E	7	2.7			

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=8.3km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.7km az=138.1.
DDA Event type ke.

ISC	**II**	**06 23 22 26.5–1.0**	**39.53N–.04**	**32.85E–.02**	**8–9**		**31**	**0-2**	
ISK	II	06 23 22 24.4	39.55N	32.82E	5	3.1			¶16494284
CSEM	II	06 23 22 25.8–.30	39.55N	32.82E	2	2.7			
DDA	II	06 23 22 27.1	39.65N	32.93E	2	2.7			

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=5.2km az=179.0.
DDA Event type ke.

ISC	**II**	**07 03 41 18.0–.88**	**37.88N–.02**	**27.28E–.03**	**12–7**		**46**	**0-2**	
DDA	II	07 03 41 18.0	37.89N	27.28E	7	2.7			¶16494288
ISK	II	07 03 41 17.8	37.90N	27.29E	10	2.6			
ISCJB	II	07 03 41 18.3–.46	37.88N–.03	27.28E–.04	8–4	2.6			
CSEM	II	07 03 41 18.3–.22	37.87N	27.29E	5	2.7			

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=141.2.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=71.0.

ISC	**II**	**07 04 18 05.0–.94**	**37.30N–.03**	**30.13E–.02**	**76–7**		**167**	**0-9**	
ISCJB	II	07 04 18 03.5–.29	37.27N–.02	30.12E–.02	88–4				¶16494289
DDA	II	07 04 18 04.0	37.33N	30.11E	75	3.2			
CSEM	II	07 04 18 04.7–.11	37.26N	30.12E	75–3	3.2			
ISK	II	07 04 18 04.3	37.25N	30.11E	27	3.1,3.0L			
HLW	II	07 04 18 05.5	37.07N	29.80E	14–19	3.7,3.0L			

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=140.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=69.0.

ISC	**II**	**07 07 55 26.2–1.1**	**38.27N–.04**	**42.21E–.03**	**8–12**		**25**	**1-2**	
CSEM	II	07 07 55 26.2–.42	38.25N	42.22E	5	2.8			¶16494294
DDA	II	07 07 55 26.4	38.31N	42.24E	3	2.8			
ISK	II	07 07 55 26.8	38.18N	42.16E	17	2.7			

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=7.1km az=171.0.
DDA Event type ke.
ISC II 07 10 58 53.3–1.0 37.91N–.02 27.28E–.02 7–9 53 0-2
ISCJB II 07 10 58 53.7–.44 37.91N–.02 27.25E–.03 2–6 ¶16494297
CSEM II 07 10 58 53.9–.21 37.91N 27.27E 2 2.8
DDA II 07 10 58 53.4 37.92N 27.23E 7 2.8
ISK II 07 10 58 53.0 37.91N 27.28E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=138.1.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=73.0.
DDA Event type ke.
ISC II 07 11 25 40.7–1.2 39.81N–.03 41.84E–.03 5–11 37 0-2
DDA II 07 11 25 40.5 39.83N 41.81E 7 2.8 ¶16494298
ISCJB II 07 11 25 41.6–.59 39.82N–.03 41.79E–.04 8–6 2.8
CSEM II 07 11 25 41.2–.23 39.84N 41.78E 5 2.8
ISK II 07 11 25 41.6 39.89N 41.83E 16 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=27.1.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=27.0.
ISK II 07 12 09 08.9 39.13N 27.59E 5 3.1
CSEM II 07 12 09 08.9 39.13N 27.59E 5 3.1 ¶16494299
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 07 12 33 55.5–2.1 37.4N–.10 42.4E–.20 10–18 18 0-2
CSEM II 07 12 33 53.2–.86 37.29N 42.44E 5 2.7 ¶16494300
ISK II 07 12 33 53.9 37.44N 42.55E 20 2.6
DDA II 07 12 33 57.5 37.30N 42.17E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.7km s-min=11.5km az=142.0.
DDA Event type ke.
DDA II 07 12 39 19.7 37.98N 34.82E 7 2.7
CSEM II 07 12 39 19.7 37.98N 34.82E 7 2.7 ¶601609489
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 07 13 32 51.3–1.2 38.38N–.03 37.66E–.03 5–10 25 0-2
CSEM II 07 13 32 50.1–.41 38.33N 37.63E 5 2.6 ¶16494304
DDA II 07 13 32 51.3 38.40N 37.70E 7 2.6
ISK II 07 13 32 51.1 38.43N 37.68E 9 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=6.6km az=27.0.
DDA Event type ke.
DDA II 07 13 38 35.5 37.67N 38.10E 7 2.7
¶601609493
DDA Event type ke.
ISC II 07 13 47 35.4–.97 37.89N–.02 27.29E–.02 7–10 55 0-2
ISCJB II 07 13 47 35.5–.46 37.89N–.02 27.28E–.03 10–4 ¶16494305
CSEM II 07 13 47 35.7–.20 37.91N 27.29E 8 2.7
ISK II 07 13 47 35.2 37.92N 27.31E 5 2.7,2.5L
DDA II 07 13 47 36.1 37.90N 27.25E 10 2.7,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=154.2.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=71.0.
DDA Event type ke.
ISC II 07 14 04 51.4–1.2 39.89N–.03 33.51E–.03 11–10 37 0-2
ISK II 07 14 04 50.1 39.98N 33.44E 8 2.9 ¶16494306
CSEM II 07 14 04 51.7–.26 39.89N 33.52E 2 2.7
DDA II 07 14 04 51.5 39.88N 33.54E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.9km az=135.0.
DDA Event type ke.
ISC II 07 16 30 13.5–1.0 37.92N–.02 27.20E–.03 8–9 38 0-2
DDA II 07 16 30 12.8 37.91N 27.07E 7 2.6 ¶16494310
ISK II 07 16 30 12.4 37.93N 27.20E 5 2.7
CSEM II 07 16 30 13.5–.14 37.92N 27.20E 2 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=85.0.
ISC II 07 17 10 54.7–1.5 38.05N–.10 27.08E–.05 13 7 0-1
DDA II 07 17 10 54.0 37.99N 27.10E 7 2.6 ¶601609498
ISCJB II 07 17 10 55.8–1.1 38.12N–.08 27.05E–.05 13 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC II 07 17 33 50.9–1.1 37.92N–.02 27.23E–.03 6–10 40 0-2
ISCJB II 07 17 33 50.9–.49 37.90N–.03 27.23E–.04 7–5 ¶16494315
CSEM II 07 17 33 50.8–.20 37.91N 27.20E 5 2.6
DDA II 07 17 33 50.8 37.89N 27.27E 7 2.6
ISK II 07 17 33 50.5 37.92N 27.25E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=148.2.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=77.0.
DDA Event type ke.
ISC II 07 17 36 34.6–.94 40.13N–.02 27.39E–.02 9–9 64 0-2
ISCJB II 07 17 36 34.4–.46 40.14N–.02 27.38E–.03 4–5 ¶16494316
CSEM II 07 17 36 34.7–.13 40.14N 27.39E 2 2.7
DDA II 07 17 36 34.3 40.17N 27.43E 12 2.6
ISK II 07 17 36 34.2 40.17N 27.40E 3 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=79.0.
DDA Event type ke.
ISC II 07 19 52 54.7–1.0 37.89N–.03 27.25E–.03 10–10 28 0-1
ISCJB II 07 19 52 54.5–.55 37.90N–.04 27.24E–.04 6–7 ¶16494319
CSEM II 07 19 52 54.5–.22 37.89N 27.22E 10 2.6
ISK II 07 19 52 54.2 37.89N 27.26E 6 2.6
DDA II 07 19 52 55.1 37.86N 27.23E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.7km az=26.8.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=62.0.
DDA Event type ke.
ISC II 07 20 05 47.3–1.2 37.89N–.02 27.29E–.03 2–14 37 0-2
DDA II 07 20 05 47.0 37.88N 27.23E 7 2.6 ¶16494320
CSEM II 07 20 05 47.6–.22 37.89N 27.32E 5 2.6
ISK II 07 20 05 47.5 37.92N 27.34E 6 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=89.0.
ISC II 07 20 38 55.1–1.7 37.23N–.05 31.00E–.04 116–11 44 0-2
DDA II 07 20 38 53.8 37.26N 31.01E 6 3.0 ¶16494322
ISCJB II 07 20 38 54.4–1.0 37.22N–.05 31.01E–.06 120–8 3.0
CSEM II 07 20 38 54.6–.54 37.21N 31.01E 118–5 2.9
ISK II 07 20 38 55.4 37.19N 31.06E 109 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.0km az=140.4.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.5km az=142.0.
ISC II 07 22 33 18.8–.85 36.99N–.03 35.60E–.02 20–4 40 0-2
DDA II 07 22 33 16.7 36.90N 35.62E 7 2.6 ¶16494326
CSEM II 07 22 33 18.8–.25 37.00N 35.61E 18–2 2.6
ISK II 07 22 33 18.8 36.99N 35.53E 9 2.6
ISCJB II 07 22 33 19.0–.40 37.00N–.04 35.60E–.03 19–6 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC II 07 22 43 43.1–1.1 39.74N–.02 35.50E–.02 2–10 59 0-2
DDA II 07 22 43 42.5 39.74N 35.48E 7 2.8 ¶16494327
CSEM II 07 22 43 43.2–.18 39.72N 35.51E 2 2.9
ISK II 07 22 43 43.8 39.75N 35.36E 5 2.9
ISC Event type ke.
DDA Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=156.0.
ISC II 07 23 35 46.3–.76 38.45N–.02 43.84E–.02 2–8 3.0b 133 0-29
NSSC II 07 23 35 39.8–1.1 38.40N 44.64E 0–786 3.4L ¶16397813
NSSP II 07 23 35 43.7 38.65N 43.25E 5 3.7s
DDA II 07 23 35 46.3 38.55N 43.88E 5 3.6L
ISK II 07 23 35 46.2 38.49N 43.80E 5 3.7L
IDC II 07 23 35 49.1–1.1 39.40N 43.00E 0 3.2,3.2
CSEM II 07 23 35 52.5–.21 38.31N 43.47E 5 3.7L,3.2
AZER II 07 23 35 54.5–2.1 38.11N 43.94E 2 3.7L,3.2
ISC Event type ke.
NSSC Error ellipse: s-maj=515.0km s-min=999.9km az=-1.0.
DDA Event type ke.
IDC Error ellipse: s-maj=38.1km s-min=11.6km az=162.0.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=4.0km az=151.0.
AZER Error ellipse: s-maj=22.0km s-min=15.2km az=65.0.
ISC II 08 00 02 38.7–1.2 37.89N–.03 27.26E–.04 14–10 28 1-1
ISCJB II 08 00 02 38.9–.70 37.89N–.05 27.25E–.04 10–7 ¶16494330
CSEM II 08 00 02 38.4–.34 37.90N 27.21E 10 2.6
ISK II 08 00 02 38.5 37.90N 27.29E 11 2.6
DDA II 08 00 02 39.6 37.93N 27.28E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.2km az=24.1.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=6.2km az=46.0.
DDA Event type ke.
ISC II 08 01 56 38.9–.83 40.57N–.02 27.29E–.02 17–6 62 0-2
ISCJB II 08 01 56 38.8–.39 40.58N–.03 27.30E–.03 12–3 ¶16494335
CSEM II 08 01 56 38.9–.06 40.58N 27.29E 15 2.7
ISK II 08 01 56 38.4 40.58N 27.28E 16 2.7
DDA II 08 01 56 39.6 40.54N 27.30E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=21.3.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=178.0.
DDA Event type ke.
ISC II 08 05 34 24.1–1.1 39.94N–.06 41.29E–.04 12–5 21 0-1
ISCJB II 08 05 34 24.0–.97 39.99N–.06 41.25E–.05 10–5 ¶601609504
CSEM II 08 05 34 24.2 39.97N 41.25E 7 2.7
DDA II 08 05 34 24.2 39.97N 41.25E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.5km az=173.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC II 08 07 03 00.1–.97 40.87N–.02 35.98E–.03 8–11 42 0-2
DDA II 08 07 02 59.7 40.87N 35.98E 7 2.6 ¶16494343
ISK II 08 07 02 59.0 40.85N 36.02E 6 2.9
CSEM II 08 07 03 00.0–.19 40.86N 35.99E 2 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=91.0.
ISC II 08 09 54 53.8–.88 40.20N–.03 28.80E–.03 15–6 36 0-1
ISCJB II 08 09 54 53.7–.49 40.19N–.04 28.80E–.04 12–6 ¶16494347
CSEM II 08 09 54 53.7–.08 40.20N 28.80E 15 2.2
DDA II 08 09 54 53.8 40.20N 28.91E 7 2.7
ISK II 08 09 54 53.3 40.20N 28.78E 14 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=168.7.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=167.0.
DDA Event type ke.
ISC II 08 10 26 16.5–.95 40.71N–.03 30.64E–.03 11 24 0-2
DDA II 08 10 26 15.4 40.73N 30.60E 7 2.4 ¶16494349
ISCJB II 08 10 26 16.3–.57 40.72N–.03 30.62E–.06 11 2.4
CSEM II 08 10 26 16.6–.32 40.70N 30.58E 2 2.9
ISK II 08 10 26 17.4 40.62N 30.53E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=5.8.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=6.6km az=69.0.
ISC II 08 19 09 54.6–1.3 39.38N–.04 43.80E–.07 10–9 22 0-1
DDA II 08 19 09 53.7 39.39N 43.81E 7 2.8 ¶601609523
ISCJB II 08 19 09 54.4–1.2 39.35N–.05 43.80E–.08 5–9 2.8
CSEM II 08 19 09 54.3–.53 39.38N 43.79E 5 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=7.7km az=169.6.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=7.1km az=78.0.
ISC II 08 21 56 39.8–.99 37.85N–.02 27.38E–.02 6–9 82 0-3
ISCJB II 08 21 56 39.7–.42 37.86N–.02 27.37E–.02 4–4 ¶16494362
DDA II 08 21 56 39.3 37.87N 27.33E 7 2.9
ISK II 08 21 56 39.1 37.85N 27.41E 5 2.9
CSEM II 08 21 56 40.0–.15 37.85N 27.38E 2 2.9
ATH II 08 21 56 40.3 37.84N 27.33E 17–2 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=7.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.3km az=97.0.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.4km az=238.0. Analyst: E.Daskalaki ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 09 00 35 08.8–1.0 37.17N–.03 36.98E–.03 5–10 29 0-1
CSEM II 09 00 35 08.6–.35 37.19N 36.98E 2 2.5 ¶16494368
DDA II 09 00 35 08.1 37.19N 36.99E 4 2.5
ISK II 09 00 35 09.2 37.10N 36.92E 12 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.3km az=123.0.
DDA Event type ke.
ISC II 09 00 54 05.4–.94 37.91N–.02 27.40E–.02 10–8 51 0-2
ISCJB II 09 00 54 05.7–.48 37.90N–.03 27.41E–.03 10–5 ¶16494370
CSEM II 09 00 54 05.6–.16 37.94N 27.36E 2 2.4
DDA II 09 00 54 05.5 37.90N 27.37E 7 2.4
ISK II 09 00 54 05.3 37.93N 27.41E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.2km az=1.5.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=88.0.
DDA Event type ke.
ISC II 09 01 15 20.1–1.2 37.06N–.04 41.22E–.04 31–12 31 1-2
CSEM II 09 01 15 19.7–.58 37.04N 41.23E 26–6 1.6L ¶16494372
NSSC II 09 01 15 19.3–1.1 37.20N 40.98E 66–10 1.6L
ISK II 09 01 15 19.7 37.17N 41.27E 21 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=6.8km az=140.0.
NSSC Error ellipse: s-maj=8.8km s-min=12.1km az=-1.0.
ISC II 09 03 02 24.9–.76 37.65N–.02 43.79E–.03 19 130 0-6
ISK II 09 03 02 21.7 37.66N 43.90E 5 3.5L ¶16494375
ISCJB II 09 03 02 24.7–.34 37.66N–.03 43.91E–.03 19 3.5L
CSEM II 09 03 02 24.4–.20 37.69N 43.83E 5 3.8L
DDA II 09 03 02 24.8 37.67N 43.71E 27 3.8L
AZER II 09 03 02 26.3–11 37.97N 44.20E 5 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=153.1.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=156.0.
DDA Event type ke.
AZER Error ellipse: s-maj=7.9km s-min=6.3km az=254.0.
ISK II 09 03 11 06.7 40.66N 29.09E 6 2.0
CSEM II 09 03 11 06.7 40.66N 29.09E 6 2.0 ¶16494376
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 09 03 13 07.6–.85 40.66N–.02 29.07E–.02 13–6 68 0-2
DDA II 09 03 13 06.9 40.62N 29.05E 7 2.6 ¶16494377
ISCJB II 09 03 13 07.4–.40 40.66N–.02 29.07E–.03 7–4 2.6
CSEM II 09 03 13 07.6–.08 40.66N 29.09E 8 2.7
ISK II 09 03 13 07.1 40.65N 29.07E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=37.2.

CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=95.0.
ISC II 09 03 31 02.6–1.3 37.66N–.03 43.89E–.06 18–5 54 0-4
ISK II 09 03 31 01.4 37.63N 43.85E 4 3.2L ¶16494378
CSEM II 09 03 31 02.2–.70 37.67N 43.86E 2 3.2
DDA II 09 03 31 03.9 37.77N 43.68E 7 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.2km s-min=6.5km az=103.0.
DDA Event type ke.
ISC II 09 07 01 01.6–.87 39.25N–.02 29.35E–.03 12–7 46 0-2
ISK II 09 07 01 00.9 39.25N 29.32E 8 2.7 ¶16494380
ISCJB II 09 07 01 01.4–.46 39.25N–.03 29.33E–.04 8–4 2.7
CSEM II 09 07 01 01.5–.08 39.25N 29.35E 10 2.6
DDA II 09 07 01 01.2 39.25N 29.35E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=28.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.5km az=117.0.
DDA Event type ke.
ISC II 09 08 48 07.7–.97 38.71N–.02 29.27E–.02 11–9 45 0-2
ISCJB II 09 08 48 07.5–.45 38.72N–.02 29.27E–.03 4–6 ¶16494381
CSEM II 09 08 48 07.7–.15 38.71N 29.26E 8 2.7
DDA II 09 08 48 07.4 38.71N 29.28E 7 2.7
ISK II 09 08 48 07.1 38.72N 29.29E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=4.1km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=172.0.
DDA Event type ke.
ISC II 09 10 43 53.8–.99 39.90N–.03 33.07E–.03 11–9 30 0-2
ISK II 09 10 43 52.5 39.93N 33.10E 7 2.2 ¶16494382
CSEM II 09 10 43 53.4–.21 39.91N 33.10E 12 2.2
DDA II 09 10 43 53.5 39.89N 33.03E 7 2.6
ISCJB II 09 10 43 54.0–.68 39.88N–.04 33.03E–.05 11–6 2.6
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
DDA II 09 11 17 31.4 39.95N 36.04E 4 2.8
CSEM II 09 11 17 31.2–.29 39.95N 36.00E 8 2.3 ¶16494383
ISK II 09 11 17 34.1 40.06N 35.06E 12 2.3
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=159.0.
ISC II 09 13 38 08.5–1.0 37.71N–.02 43.86E–.03 18–4 57 0-7
ISK II 09 13 38 04.6 37.69N 43.93E 4 3.2L ¶16358555
ISN II 09 13 38 06.6–.78 37.71N 43.47E 0–3 3.2L
CSEM II 09 13 38 07.9–.32 37.77N 43.85E 8 3.1
DDA II 09 13 38 09.0 37.70N 43.77E 23 3.1
TEH II 09 13 38 11.1 37.78N 44.02E 31 2.8L
ISC Event type ke.
ISN Error ellipse: s-maj=4.4km s-min=5.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=6.4km az=69.0.
DDA Event type ke.
ISC II 09 14 12 48.3–1.2 40.75N–.03 41.21E–.03 1–13 40 0-2
DDA II 09 14 12 47.8 40.72N 41.20E 7 2.7 ¶16494385
CSEM II 09 14 12 48.4–.19 40.74N 41.23E 2 2.7
ISK II 09 14 12 48.9 40.69N 41.19E 11 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.3km az=141.0.
ISC II 09 18 34 39.4–1.1 37.91N–.02 27.34E–.03 4–10 36 0-1
DDA II 09 18 34 39.6 37.87N 27.31E 7 2.5 ¶16494391
CSEM II 09 18 34 40.0–.28 37.89N 27.37E 2 2.5
ISK II 09 18 34 40.2 37.92N 27.45E 10 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.6km az=103.0.
ISC II 09 22 53 57.6–1.0 39.97N–.02 39.87E–.03 9–10 40 0-1
ISCJB II 09 22 53 57.6–.53 39.97N–.03 39.92E–.05 11–5 ¶16494395
CSEM II 09 22 53 57.6–.12 39.96N 39.89E 10 2.7
ISK II 09 22 53 57.2 39.97N 39.93E 12 2.6
DDA II 09 22 53 58.2 39.99N 39.85E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=20.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=112.0.
DDA Event type ke.
ISC II 10 03 56 26.8–.89 39.12N–.02 29.05E–.01 11–8 139 0-2
DDA II 10 03 56 26.4 39.14N 29.04E 5 3.5L ¶16494399
ISK II 10 03 56 26.2 39.14N 29.09E 5 3.0L
CSEM II 10 03 56 27.3–.10 39.12N 29.08E 2 3.5L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=164.0.
ISC II 10 08 37 51.8–1.1 36.71N–.04 34.62E–.03 10–13 23 0-1
DDA II 10 08 37 50.7 36.65N 34.66E 7 2.8 ¶601609552
ISCJB II 10 08 37 51.5–.70 36.69N–.04 34.63E–.04 4–8 2.8
CSEM II 10 08 37 51.5–.29 36.68N 34.64E 10 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.4km az=151.8.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.2km az=157.0.
ISC II 10 10 18 09.1–1.0 39.43N–.03 39.01E–.03 15–9 29 0-1
ISK II 10 10 18 08.6 39.44N 39.00E 14 2.4L,2.4 ¶16494403
ISCJB II 10 10 18 09.4–.56 39.41N–.04 39.01E–.04 14–7 2.4L,2.4
CSEM II 10 10 18 09.2–.25 39.41N 38.98E 15 2.7,2.4
DDA II 10 10 18 09.5 39.45N 39.04E 7 2.7,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.9km az=23.6.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=47.0.
DDA Event type ke.
ISC II 10 12 52 22.8–1.0 38.37N–.02 37.62E–.03 7–9 54 0-2
CSEM II 10 12 52 22.9–.23 38.40N 37.66E 2 2.6 ¶16494410
ISK II 10 12 52 22.0 38.41N 37.59E 5 2.6
DDA II 10 12 52 24.0 38.35N 37.68E 10 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.2km az=63.0.
DDA Event type ke.
ISC II 10 13 03 21.8–1.0 39.16N–.02 27.63E–.02 10–9 61 0-2
DDA II 10 13 03 20.9 39.12N 27.36E 22 2.7 ¶16494411
ISCJB II 10 13 03 21.4–.52 39.15N–.02 27.59E–.03 2–5 2.7
CSEM II 10 13 03 21.6–.12 39.15N 27.62E 5 2.7
ISK II 10 13 03 21.1 39.16N 27.62E 6 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=15.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=97.0.
ISC II 10 18 13 42.6–.93 37.12N–.02 36.71E–.02 6–8 47 0-2
IASPE II 10 18 13 42.7–.93 37.13N–.03 36.70E–.03 6–8 ¶16494413
CSEM II 10 18 13 42.9–.20 37.13N 36.72E 2 2.3
DDA II 10 18 13 42.3 37.13N 36.73E 4 2.8
ISK II 10 18 13 42.5 37.15N 36.66E 5 2.8
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=93.9. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=112.0.
DDA Event type ke.
ISC II 10 21 38 09.0–.86 39.44N–.03 38.98E–.03 9 20 0-1
ISK II 10 21 38 06.3 39.64N 38.96E 29 2.4 ¶16494415
DDA II 10 21 38 09.0 39.45N 39.01E 7 2.6
ISCJB II 10 21 38 09.3–.59 39.45N–.04 39.03E–.04 9 2.6
CSEM II 10 21 38 09.4–.25 39.44N 38.98E 8 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=7.8.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=8.0.
ISC II 10 23 42 34.6–1.1 38.41N–.04 38.97E–.04 16–4 20 0-2
ISK II 10 23 42 33.8 38.40N 38.93E 7 2.7 ¶16494417
ISCJB II 10 23 42 34.1–.67 38.36N–.05 39.00E–.08 13–7 2.7
CSEM II 10 23 42 34.0–.27 38.39N 38.97E 10 2.7
DDA II 10 23 42 34.5 38.36N 38.94E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=7.9km az=167.1.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=7.2km az=106.0.
DDA Event type ke.
ISC II 11 00 20 29.9–1.2 39.89N–.03 41.97E–.03 12–10 23 0-1
CSEM II 11 00 20 28.7–.36 39.86N 41.87E 8 2.6 ¶16494419
ISK II 11 00 20 28.2 39.90N 41.97E 5 2.5
ISCJB II 11 00 20 30.1–.56 39.88N–.03 41.96E–.04 6–6 2.5
DDA II 11 00 20 30.3 39.90N 41.97E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=6.4km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=33.6.
DDA Event type ke.
ISC II 11 00 23 05.1–1.1 39.88N–.04 41.95E–.04 17–7 23 0-1
CSEM II 11 00 23 04.8–.25 39.88N 41.93E 15 2.8 ¶16494420
ISK II 11 00 23 04.9 39.89N 41.98E 19 2.6
ISCJB II 11 00 23 05.5–.70 39.87N–.04 41.95E–.05 10–6 2.6
DDA II 11 00 23 05.4 39.88N 41.94E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=21.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.0km az=43.6.
DDA Event type ke.
ISC II 11 01 31 48.3–3.7 39.29N–.09 39.8E–.30 11–12 18 0-1
CSEM II 11 01 31 46.7–.62 39.24N 39.96E 2 2.6 ¶601609566
DDA II 11 01 31 47.7 39.27N 39.83E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.8km s-min=3.5km az=104.0.
DDA Event type ke.
ISC II 11 03 14 15.9–1.1 38.76N–.02 42.39E–.03 5–10 36 0-2
ISCJB II 11 03 14 15.9–.51 38.78N–.03 42.34E–.04 2–8 ¶16494424
CSEM II 11 03 14 15.8–.19 38.77N 42.38E 2 2.5
DDA II 11 03 14 16.3 38.79N 42.33E 7 2.5
ISK II 11 03 14 16.4 38.89N 42.35E 23 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=39.2.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=94.0.
DDA Event type ke.
ISC II 11 04 30 53.7–1.0 38.14N–.02 38.60E–.02 8–9 87 0-3
ISK II 11 04 30 52.6 38.16N 38.59E 5 3.1 ¶16494425
DDA II 11 04 30 53.4 38.12N 38.57E 12 2.9
CSEM II 11 04 30 54.0–.19 38.14N 38.60E 2 2.9
NSSC II 11 04 31 05.9–1.5 36.48N 40.13E 156–17 2.6L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.2km az=143.0.
NSSC Error ellipse: s-maj=36.3km s-min=54.5km az=-1.0.
ISC II 11 04 31 07.6–.98 37.77N–.02 27.81E–.04 9–8 36 0-2
ISCJB II 11 04 31 07.5–.62 37.77N–.03 27.80E–.06 3–7 ¶16494426
CSEM II 11 04 31 07.7–.18 37.77N 27.82E 8 2.7
DDA II 11 04 31 08.0 37.79N 27.75E 7 2.5
ISK II 11 04 31 07.0 37.77N 27.84E 14 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.3km az=10.1.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=99.0.
DDA Event type ke.
ISC II 11 11 06 33.5–.87 40.35N–.03 27.86E–.02 7–5 48 0-2
ISCJB II 11 11 06 33.6–.43 40.35N–.03 27.86E–.03 4–4 ¶16494432
CSEM II 11 11 06 33.6–.11 40.34N 27.86E 8 2.7
DDA II 11 11 06 33.8 40.33N 27.87E 7 2.9
ISK II 11 11 06 33.2 40.35N 27.85E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.5km az=29.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.1km az=18.0.
DDA Event type ke.
ISC II 11 15 58 37.4–1.6 37.44N–.05 36.78E–.07 5–9 12 0-1
CSEM II 11 15 58 36.8 37.44N 36.79E 7 2.6 ¶601609590
DDA II 11 15 58 36.8 37.44N 36.79E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC II 11 16 53 46.3–1.3 36.99N–.03 31.15E–.03 71–9 69 0-3
DDA II 11 16 53 43.3 36.98N 31.14E 102 3.0 ¶16494443
ISCJB II 11 16 53 44.2–.75 36.95N–.04 31.13E–.04 94–8 3.0
ISK II 11 16 53 44.9 36.90N 31.28E 30 3.2
CSEM II 11 16 53 45.2–.25 36.99N 31.16E 80 3.2
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.5km az=27.1.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=6.3km az=172.0.
ISC II 11 22 19 10.9–1.1 38.34N–.03 35.84E–.03 8–11 39 0-2
CSEM II 11 22 19 10.2–.22 38.33N 35.90E 5 2.8 ¶16494444
ISK II 11 22 19 10.0 38.30N 35.88E 13 2.7
DDA II 11 22 19 11.1 38.35N 35.82E 10 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.6km az=127.0.
DDA Event type ke.
ISC II 11 22 20 48.9–1.2 39.97N–.02 39.87E–.02 2–10 49 0-2
ISK II 11 22 20 47.9 39.97N 39.92E 7 2.7 ¶16494445
ISCJB II 11 22 20 48.6–.53 39.99N–.03 39.83E–.04 2–5 2.7
CSEM II 11 22 20 48.7–.19 39.96N 39.82E 8 2.8
DDA II 11 22 20 48.8 39.96N 39.89E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=32.3.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=129.0.
DDA Event type ke.
ISC II 11 22 36 52.8–1.1 39.96N–.02 39.88E–.03 7–10 34 0-1
ISCJB II 11 22 36 52.9–.54 40.00N–.03 39.85E–.05 3–6 ¶16494446
CSEM II 11 22 36 52.7–.20 39.96N 39.87E 8 2.8
ISK II 11 22 36 52.5 39.98N 39.89E 8 2.7
DDA II 11 22 36 53.2 39.95N 39.89E 13 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=27.4.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=122.0.
DDA Event type ke.
ISC II 11 23 04 10.7–1.1 37.83N–.03 27.37E–.03 4–11 28 0-1
CSEM II 11 23 04 10.7–.22 37.85N 27.39E 5 2.7 ¶16494447
ISK II 11 23 04 10.4 37.87N 27.40E 10 2.6
DDA II 11 23 04 11.3 37.76N 27.36E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=44.0.
DDA Event type ke.
ISC II 11 23 11 47.4–.88 40.47N–.02 27.72E–.02 12–6 64 0-2
ISK II 11 23 11 46.6 40.46N 27.69E 11 2.9 ¶16494448
CSEM II 11 23 11 47.2–.16 40.47N 27.72E 10 2.9
DDA II 11 23 11 47.5 40.44N 27.75E 3 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=27.0.
DDA Event type ke.
ISC II 12 00 13 22.1–1.2 39.97N–.03 39.87E–.03 3–12 27 0-1
ISK II 12 00 13 21.4 39.98N 39.92E 4 2.5 ¶16494449
CSEM II 12 00 13 22.2–.27 39.97N 39.86E 8 2.6
DDA II 12 00 13 22.7 39.94N 39.90E 10 2.6
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.0km az=128.0.
DDA Event type ke.
ISC II 12 00 25 15.2–1.1 39.28N–.02 39.87E–.02 1–10 127 0-4
DDA II 12 00 25 14.8 39.27N 39.82E 8 3.6L ¶16494450
ISK II 12 00 25 14.0 39.30N 39.88E 5 3.3L
CSEM II 12 00 25 15.6–.18 39.31N 39.94E 2 3.6L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.4km az=179.0.
ISC II 12 00 55 00.4–1.4 37.11N–.06 29.20E–.06 7–13 24 0-1
DDA II 12 00 54 59.5 37.08N 29.21E 7 2.7 ¶16494452
ISK II 12 00 54 59.1 37.28N 29.32E 3 2.8
CSEM II 12 00 55 00.7–.31 37.16N 29.28E 15 2.7
ISCJB II 12 00 55 01.0–.68 37.11N–.06 29.25E–.04 13–8 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC II 12 01 14 28.4–.82 37.86N–.02 27.12E–.02 15–6 85 0-3
DDA II 12 01 14 27.7 37.90N 27.11E 5 3.2 ¶16494454
ATH II 12 01 14 27.4 37.80N 27.10E 26–1 2.5L
ISK II 12 01 14 27.5 37.87N 27.15E 4 3.5
CSEM II 12 01 14 28.1–.17 37.85N 27.12E 5 3.2
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.4km s-min=1.4km az=259.0. Analyst: Koutrakis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=52.0.
ISC II 12 01 19 41.7–2.7 38.2N–.10 38.6E–.10 10 5 1-2
DDA II 12 01 19 42.4 38.12N 38.52E 7 2.6 ¶601609600
ISC Event type ke.
DDA Event type ke.
ISC II 12 04 40 07.4–1.0 37.89N–.03 27.41E–.03 8–13 32 0-1
ISCJB II 12 04 40 07.2–.51 37.89N–.03 27.41E–.04 7–7 ¶16494459
CSEM II 12 04 40 07.4–.13 37.90N 27.42E 8 2.6
DDA II 12 04 40 07.0 37.87N 27.40E 7 2.6
ISK II 12 04 40 07.2 37.90N 27.43E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.3km az=27.7.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=50.0.
DDA Event type ke.
ISC II 12 09 29 20.8–1.1 37.90N–.02 27.32E–.03 4–10 43 0-2
ISCJB II 12 09 29 20.7–.57 37.91N–.03 27.34E–.04 2–7 ¶16494461
DDA II 12 09 29 20.2 37.89N 27.33E 7 2.7
CSEM II 12 09 29 21.0–.13 37.91N 27.33E 2 2.7
ISK II 12 09 29 21.1 37.95N 27.35E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=7.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=84.0.
ISC II 12 10 41 29.4–.98 37.91N–.03 27.19E–.07 13 18 0-1
ISCJB II 12 10 41 29.3–.72 37.91N–.04 27.15E–.06 13 ¶16494465
CSEM II 12 10 41 29.7–.22 37.92N 27.17E 8 2.6
DDA II 12 10 41 29.1 37.92N 27.26E 7 2.6
ISK II 12 10 41 29.5 37.94N 27.18E 11 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.1km az=157.1.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=55.0.
DDA Event type ke.
ISK II 12 11 06 39.4 37.21N 28.25E 11 2.6 ¶16494466
ISC II 12 11 08 46.7–1.3 36.95N–.02 29.24E–.03 4–11 40 0-2
ISK II 12 11 08 45.9 36.93N 29.22E 5 2.8 ¶16494467
DDA II 12 11 08 46.7 37.03N 29.17E 7 2.8
ISCJB II 12 11 08 47.3–.62 36.96N–.04 29.22E–.05 3–8 2.8
CSEM II 12 11 08 47.1–.25 36.94N 29.22E 2 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.1km az=37.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=5.4km az=68.0.
ISC II 12 12 42 03.9–1.1 39.95N–.03 40.82E–.02 1–11 49 0-2
ISK II 12 12 42 03.5 39.89N 40.82E 2 3.0 ¶16494471
ISCJB II 12 12 42 04.6–.51 39.94N–.03 40.86E–.03 6–5 3.0
CSEM II 12 12 42 04.9–.25 39.92N 40.81E 10 3.0
DDA II 12 12 42 04.2 39.93N 40.88E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=19.8.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.7km az=22.0.
DDA Event type ke.
ISC II 12 13 44 33.9–1.0 37.17N–.02 37.18E–.02 8–9 53 0-3
ISCJB II 12 13 44 34.0–.56 37.16N–.02 37.16E–.04 5–4 ¶16494474
CSEM II 12 13 44 33.4–.28 37.19N 37.20E 5 2.9
NSSC II 12 13 44 33.4–1.7 36.92N 37.56E 5–13 2.4L
DDA II 12 13 44 33.3 37.20N 37.19E 7 2.9
ISK II 12 13 44 34.1 37.20N 37.06E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=2.4.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.0km az=85.0.
NSSC Error ellipse: s-maj=18.5km s-min=7.0km az=-1.0.
DDA Event type ke.
ISC II 12 18 38 55.3–1.0 39.46N–.03 39.00E–.03 13–9 29 0-1
ISK II 12 18 38 54.5 39.49N 39.00E 18 2.7 ¶16494480
CSEM II 12 18 38 55.1–.33 39.46N 39.00E 2 2.6
DDA II 12 18 38 55.1 39.45N 39.02E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.8km az=35.0.
DDA Event type ke.
ISC II 12 19 01 36.4–.93 39.02N–.03 28.21E–.02 13–10 34 0-1
ISK II 12 19 01 35.8 39.01N 28.24E 13 2.6 ¶16494481
ISCJB II 12 19 01 36.1–.55 39.02N–.04 28.21E–.04 6–8 2.6
CSEM II 12 19 01 36.3–.13 39.00N 28.21E 12 2.7
DDA II 12 19 01 36.7 38.99N 28.22E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.5km az=15.3.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=31.0.
DDA Event type ke.
ISC II 13 01 55 49.9–1.0 38.83N–.03 27.52E–.03 9–8 42 0-2
CSEM II 13 01 55 49.9–.16 38.83N 27.54E 10 2.7 ¶16494484
DDA II 13 01 55 49.8 38.84N 27.55E 7 2.7
ISK II 13 01 55 49.7 38.82N 27.55E 10 2.7
ISCJB II 13 01 55 50.0–.56 38.85N–.03 27.52E–.03 6–6 2.7
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC II 13 08 05 02.1–.83 39.18N–.02 41.52E–.02 4–6 3.3b 145 0-44
ISCJB II 13 08 05 01.8–.43 39.20N–.02 41.51E–.02 2–3 3.3b ¶16398099
DDA II 13 08 05 01.4 39.19N 41.50E 22 3.6
ISK II 13 08 05 01.9 39.21N 41.48E 5 3.6L
IDC II 13 08 05 02.0–1.0 39.30N 41.48E 0 3.3,3.2
CSEM II 13 08 05 02.7–.15 39.19N 41.51E 10 3.6L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=36.2.
DDA Event type ke.
IDC Error ellipse: s-maj=18.8km s-min=10.7km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.7km az=14.0.
ISC II 13 08 59 00.7–1.1 39.15N–.06 41.55E–.04 4–11 17 0-3
ISN II 13 08 58 56.5–7.3 38.98N 41.64E 0 2.7L ¶16358598
ISK II 13 08 58 59.6 39.12N 41.59E 5 2.7
ISCJB II 13 08 59 00.5–.85 39.11N–.06 41.57E–.06 3–10 2.7
CSEM II 13 08 59 00.5–.34 39.13N 41.55E 5 2.7
ISC Event type ke.
ISN Error ellipse: s-maj=43.8km s-min=26.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.9km az=158.6.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=7.8km az=172.0.
ISC II 13 12 01 33.7–1.1 38.92N–.04 39.02E–.03 10–10 24 0-1
CSEM II 13 12 01 33.6–.17 38.91N 39.00E 10 2.7 ¶16494491
DDA II 13 12 01 33.9 38.92N 39.04E 12 2.5
ISK II 13 12 01 33.2 38.92N 38.97E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=1.0.
DDA Event type ke.
ISC II 13 12 02 08.8–.93 37.20N–.04 28.18E–.04 17–7 24 0-1
ISCJB II 13 12 02 08.9–.65 37.23N–.05 28.22E–.06 13–6 ¶16494492
DDA II 13 12 02 08.8 37.24N 28.25E 7 2.6
ISK II 13 12 02 08.9 37.21N 28.17E 13 2.8
CSEM II 13 12 02 09.0–.21 37.21N 28.20E 15 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.0km az=135.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=37.0.
ISC II 13 20 21 11.1–.94 38.69N–.03 31.27E–.02 11–8 48 0-2
ISCJB II 13 20 21 11.0–.52 38.69N–.03 31.28E–.03 5–5 ¶16494496
CSEM II 13 20 21 10.9–.12 38.68N 31.27E 8 2.6
DDA II 13 20 21 10.9 38.71N 31.27E 7 2.6
ISK II 13 20 21 10.5 38.69N 31.27E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=169.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=12.0.
DDA Event type ke.
ISC II 13 20 32 12.7–1.2 39.23N–.04 41.64E–.04 9–12 11 0-1
DDA II 13 20 32 12.7 39.19N 41.67E 7 2.6 ¶601609631
ISC Event type ke.
DDA Event type ke.
ISC II 13 21 13 48.2–1.3 37.81N–.05 29.14E–.06 13–7 24 0-1
ISK II 13 21 13 47.8 37.83N 29.15E 14 2.6 ¶16494498
ISCJB II 13 21 13 48.4–1.2 37.81N–.05 29.13E–.07 9–7 2.6
CSEM II 13 21 13 48.1–.38 37.81N 29.16E 12 2.6
DDA II 13 21 13 48.7 37.84N 29.10E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.0km az=41.6.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=133.0.
DDA Event type ke.
ISC II 13 21 39 59.8–1.0 40.44N–.03 26.08E–.05 11 28 0-1
ISK II 13 21 39 59.8 40.39N 26.16E 16 2.6 ¶16494499
ISCJB II 13 21 40 00.4–.74 40.44N–.04 26.10E–.08 11 2.6
CSEM II 13 21 40 00.7–.54 40.43N 26.13E 10 2.6
DDA II 13 21 40 01.5 40.39N 26.11E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.7km az=30.9.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=9.9km az=125.0.
DDA Event type ke.
ISC II 14 00 09 05.2–.76 40.43N–.02 26.01E–.02 17–6 132 0-5
ISCJB II 14 00 09 05.2–.40 40.43N–.02 26.03E–.02 7–3 ¶16494501
CSEM II 14 00 09 05.9–.15 40.42N 26.04E 10 3.3L
DDA II 14 00 09 05.6 40.39N 26.12E 7 2.9
THE II 14 00 09 05.9 40.43N 26.00E 15–1 2.3L
ISK II 14 00 09 05.2 40.40N 26.09E 5 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=170.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=23.0.
ISC II 14 06 54 05.5–.95 37.67N–.05 36.57E–.04 8 15 0-1
ISCJB II 14 06 54 06.5–.72 37.65N–.04 36.57E–.05 8 ¶16494503
CSEM II 14 06 54 06.8–.95 37.43N 36.52E 20 2.4
ISK II 14 06 54 06.6 37.50N 36.50E 32 2.4,2.0L
DDA II 14 06 54 09.4 37.60N 36.92E 7 2.6,2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.1km az=14.4.
CSEM Event type ke. Error ellipse: s-maj=48.5km s-min=24.4km az=166.0.
DDA Event type ke.
ISC II 14 08 14 17.6–1.0 40.85N–.03 31.16E–.02 13–8 46 0-2
ISCJB II 14 08 14 17.1–.66 40.89N–.04 31.16E–.04 6–5 ¶16494504
CSEM II 14 08 14 17.5–.20 40.87N 31.15E 8 2.6
DDA II 14 08 14 17.2 40.84N 31.16E 7 2.6
ISK II 14 08 14 17.0 40.87N 31.14E 5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=18.0.
DDA Event type ke.
ISC II 14 10 46 26.4–1.1 39.89N–.03 33.05E–.02 7–9 42 0-2
ISCJB II 14 10 46 26.7–.56 39.86N–.03 33.00E–.05 11–6 ¶16494510
CSEM II 14 10 46 26.3–.15 39.90N 33.02E 10 2.5
DDA II 14 10 46 26.4 39.90N 33.07E 7 2.5
ISK II 14 10 46 26.0 39.89N 33.02E 12 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=66.0.
DDA Event type ke.
ISC II 14 12 05 24.7–1.3 41.29N–.05 37.74E–.03 9–11 34 1-2
CSEM II 14 12 05 24.7–.50 41.30N 37.76E 5 2.8L ¶16494513
ISK II 14 12 05 24.9 41.25N 37.77E 8 2.8L
DDA II 14 12 05 27.1 41.13N 37.65E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=4.3km az=161.0.
DDA Event type ke.
ISC II 14 15 14 59.9–1.1 40.78N–.02 34.83E–.02 6–10 48 1-2
CSEM II 14 15 14 59.9–.16 40.77N 34.84E 2 3.0 ¶16494515
ISK II 14 15 14 59.5 40.82N 34.83E 8 2.4L
DDA II 14 15 15 00.3 40.74N 34.89E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=121.0.
DDA Event type ke.
ISC II 14 19 23 12.1–1.0 39.44N–.02 39.06E–.02 13–9 46 0-2
DDA II 14 19 23 11.7 39.44N 39.02E 7 2.7 ¶16494517
ISCJB II 14 19 23 12.3–.59 39.45N–.02 39.03E–.05 4–7 2.7
CSEM II 14 19 23 12.8–.32 39.44N 39.05E 10 2.7
ISK II 14 19 23 12.0 39.45N 39.04E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.0km az=0.8.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=6.2km az=108.0.
ISC II 14 19 51 45.8–1.0 39.45N–.03 39.03E–.03 14–9 23 0-1
DDA II 14 19 51 45.5 39.43N 39.00E 7 2.7 ¶16494518
ISK II 14 19 51 45.3 39.51N 39.01E 11 2.4
ISCJB II 14 19 51 46.1–.58 39.44N–.05 39.02E–.04 8–8 2.4
CSEM II 14 19 51 46.2–.29 39.43N 38.98E 10 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.0km az=172.3.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.7km az=21.0.
ISC II 14 23 24 29.2–1.2 39.64N–.02 38.36E–.02 6–10 55 0-2
ISK II 14 23 24 27.7 39.60N 38.36E 5 3.1 ¶16494523
ISCJB II 14 23 24 28.5–.55 39.64N–.03 38.38E–.03 2–5 3.1
CSEM II 14 23 24 28.6–.25 39.64N 38.37E 5 3.1
DDA II 14 23 24 29.4 39.65N 38.40E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=23.8.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.8km az=10.0.
DDA Event type ke.
ISC II 15 12 19 32.0–1.0 38.78N–.02 35.36E–.02 12–10 45 0-2

ISK II 15 12 19 31.6 38.80N 35.33E 3 3.4 ¶16494532
CSEM II 15 12 19 32.0–.21 38.78N 35.37E 2 2.9
DDA II 15 12 19 32.4 38.77N 35.34E 6 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=4.0.
DDA Event type ke.
ISC II 15 12 47 37.6–1.0 38.39N–.02 37.63E–.03 8–8 46 0-2
ISCJB II 15 12 47 37.0–.69 38.38N–.02 37.65E–.04 1–6 ¶16494533
CSEM II 15 12 47 36.9–.19 38.39N 37.64E 5 2.7
DDA II 15 12 47 36.7 38.39N 37.63E 4 3.2
ISK II 15 12 47 36.7 38.40N 37.63E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=161.6.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=50.0.
DDA Event type ke.
ISC II 15 14 25 00.7–1.1 40.01N–.03 38.58E–.02 12–11 35 0-1
ISK II 15 14 25 00.5 40.04N 38.57E 15 3.2 ¶16494535
ISCJB II 15 14 25 01.6–.47 40.01N–.04 38.59E–.04 20–10 3.2
CSEM II 15 14 25 01.0–.11 40.03N 38.59E 17–1 2.6
DDA II 15 14 25 01.1 39.97N 38.58E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=156.0.
DDA Event type ke.
ISC II 15 15 42 34.3–.87 38.01N–.03 32.49E–.03 9–7 42 0-2
ISCJB II 15 15 42 34.5–.53 38.00N–.03 32.50E–.03 4–5 ¶16494536
CSEM II 15 15 42 34.4–.17 38.01N 32.46E 10 2.7
DDA II 15 15 42 34.1 37.99N 32.50E 7 2.8
ISK II 15 15 42 34.1 38.01N 32.48E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=171.1.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=29.0.
DDA Event type ke.
ISC II 15 17 01 19.2–1.3 37.59N–.03 37.50E–.03 1–12 31 0-1
DDA II 15 17 01 18.6 37.59N 37.52E 7 2.8 ¶16494537
ISK II 15 17 01 18.5 37.46N 37.47E 4 2.6
CSEM II 15 17 01 19.0–.23 37.60N 37.49E 2 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.7km az=60.0.
ISC II 15 18 39 14.6–1.2 39.61N–.04 26.41E–.05 3–12 24 0-1
CSEM II 15 18 39 14.1–.34 39.58N 26.38E 2 2.6 ¶16494539
DDA II 15 18 39 14.6 39.59N 26.37E 7 2.6
ISK II 15 18 39 14.5 39.68N 26.32E 17 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=3.0km az=63.0.
DDA Event type ke.
ISC II 15 21 04 22.9–1.0 38.41N–.03 39.31E–.02 7–12 46 0-2
ISCJB II 15 21 04 22.7–.65 38.43N–.04 39.33E–.03 1–5 ¶16494540
CSEM II 15 21 04 22.6–.26 38.44N 39.29E 5 2.9
ISK II 15 21 04 22.6 38.41N 39.30E 11 2.9
DDA II 15 21 04 23.0 38.40N 39.27E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=13.6.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=14.0.
DDA Event type ke.
ISC II 16 00 18 42.7–.90 40.43N–.02 26.17E–.02 17–7 109 0-3
DDA II 16 00 18 42.9 40.38N 26.27E 1 2.8 ¶16494545
ATH II 16 00 18 42.7 40.45N 26.13E 32–1 2.7L
ISCJB II 16 00 18 43.2–.31 40.45N–.02 26.15E–.03 20–4 2.7L
THE II 16 00 18 43.3 40.45N 26.15E 15–0 2.9L
ISK II 16 00 18 43.0 40.41N 26.24E 7 2.7
CSEM II 16 00 18 43.0–.12 40.44N 26.16E 15 2.7
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=20.0. Analyst: Plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.2km az=10.3.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=344.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=170.0.
ISC II 16 00 19 54.1–1.1 40.45N–.02 26.13E–.02 18–6 68 0-2
ATH II 16 00 19 53.9 40.43N 26.08E 29–1 2.2L ¶16872028
ISCJB II 16 00 19 54.6–.41 40.46N–.03 26.14E–.03 27–4 2.2L
CSEM II 16 00 19 54.5–.23 40.46N 26.16E 20 2.2L
DDA II 16 00 19 54.5 40.38N 26.25E 7 2.6
THE II 16 00 19 54.9 40.46N 26.13E 18–2 2.6L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=289.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=18.5.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=48.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.4km az=328.0.
ISC II 16 00 58 49.7–.95 38.92N–.03 41.42E–.03 16–8 36 0-3
ISN II 16 00 58 31.0–4.5 39.31N 41.16E 0 2.8L ¶16358613
DDA II 16 00 58 49.0 38.89N 41.51E 7 2.9
ISCJB II 16 00 58 49.5–.74 38.92N–.03 41.47E–.05 5–6 2.9
CSEM II 16 00 58 49.5–.27 38.92N 41.40E 10 2.9
ISK II 16 00 58 49.2 38.92N 41.29E 8 2.9
ISC Event type ke.
ISN Error ellipse: s-maj=56.2km s-min=39.7km az=-1.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=175.4.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=5.2km az=85.0.
ISC II 16 01 09 58.8–.00 39.46N–.02 39.02E–.02 10–9 46 0-2
DDA II 16 01 09 58.6 39.42N 39.01E 7 2.7 ¶16494546
ISK II 16 01 09 58.7 39.43N 39.02E 5 2.6
CSEM II 16 01 09 59.1–.25 39.43N 38.98E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.8km az=137.0.
ISC II 16 01 57 28.8–.94 40.30N–.03 33.44E–.03 10–8 32 0-1
ISK II 16 01 57 27.7 40.27N 33.52E 9 3.0 ¶601609688
ISCJB II 16 01 57 29.0–.56 40.30N–.03 33.44E–.04 4–7 3.0
CSEM II 16 01 57 28.7–.24 40.32N 33.45E 10 2.6
DDA II 16 01 57 28.9 40.32N 33.46E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=20.1.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=120.0.
DDA Event type ke.
DDA II 16 02 59 09.4 37.91N 27.42E 7 2.5
CSEM II 16 02 59 09.4 37.91N 27.42E 7 2.5 ¶601609693
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM II 16 03 01 54.4–.36 39.43N 39.05E 20 2.7
ISK II 16 03 01 51.8 39.49N 38.98E 30 2.4 ¶16494548
DDA II 16 03 01 53.7 39.43N 39.01E 7 2.7
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=8.0km az=127.0.
DDA Event type ke.
ISC II 16 03 34 30.0–.94 37.76N–.04 43.87E–.03 17–9 42 0-3
ISN II 16 03 34 15.5–3.6 38.41N 44.05E 0 2.9L ¶16358614
TEH II 16 03 34 28.5 37.69N 43.77E 18 2.5L
DDA II 16 03 34 28.6 37.80N 43.94E 16 3.0
CSEM II 16 03 34 29.4–.36 37.72N 43.92E 8 3.0
ISK II 16 03 34 30.6 37.78N 43.66E 5 3.0
ISC Event type ke.
ISN Error ellipse: s-maj=54.2km s-min=26.2km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=7.0km az=138.0.
ISC II 16 10 25 39.5–1.3 39.39N–.03 39.09E–.02 7–12 40 0-1
ISK II 16 10 25 39.6 39.45N 39.03E 10 2.6 ¶16494552
CSEM II 16 10 25 40.3–.23 39.43N 39.02E 15 2.6
DDA II 16 10 25 40.3 39.43N 39.00E 6 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=19.0.
DDA Event type ke.
ISC II 16 12 03 29.0–1.2 38.45N–.04 39.64E–.03 2–11 30 0-1
CSEM II 16 12 03 28.7–.19 38.42N 39.61E 2 2.7 ¶16494554
DDA II 16 12 03 28.7 38.49N 39.64E 7 2.6
ISK II 16 12 03 28.5 38.46N 39.62E 4 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.4km az=28.0.
DDA Event type ke.
ISC II 16 12 22 33.0–1.4 38.90N–.03 41.96E–.03 9–12 31 0-1
DDA II 16 12 22 24.7 39.33N 42.22E 7 2.6 ¶16494555
ISK II 16 12 22 32.4 38.87N 41.98E 5 2.5
ISCJB II 16 12 22 33.5–.54 38.89N–.03 41.95E–.04 3–8 2.5
CSEM II 16 12 22 33.3–.29 38.90N 41.93E 5 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=44.9.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.9km az=120.0.
ISC II 16 14 33 53.5–1.2 38.02N–.02 34.89E–.03 1–14 41 0-2
ISCJB II 16 14 33 53.7–.51 38.00N–.02 34.86E–.04 3–7 ¶16494558
DDA II 16 14 33 53.2 37.99N 34.86E 7 2.6
CSEM II 16 14 33 54.1–.26 38.03N 34.85E 2 2.8
ISK II 16 14 33 54.2 38.06N 34.84E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=169.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.1km az=41.0.
ISC II 16 15 54 26.4–1.1 37.95N–.02 34.79E–.03 11–11 37 0-2
DDA II 16 15 54 25.9 37.95N 34.82E 7 2.6 ¶16494561
CSEM II 16 15 54 26.6–.22 37.96N 34.80E 2 2.6
ISK II 16 15 54 26.1 37.99N 34.80E 5 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=69.0.
ISC II 16 17 37 52.6–1.3 40.14N–.03 31.66E–.03 1–12 31 0-1
CSEM II 16 17 37 52.9–.28 40.10N 31.69E 2 2.6 ¶16494562
DDA II 16 17 37 52.1 40.17N 31.61E 7 2.6
ISK II 16 17 37 52.3 40.07N 31.66E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.7km az=167.0.
DDA Event type ke.
ISC II 16 19 27 14.3–1.2 37.89N–.03 27.32E–.03 2–11 35 0-1
DDA II 16 19 27 13.9 37.86N 27.34E 7 2.6 ¶16494563
ISCJB II 16 19 27 15.0–.56 37.90N–.03 27.30E–.03 5–5 2.6
CSEM II 16 19 27 14.9–.38 37.91N 27.29E 5 2.6
ISK II 16 19 27 15.5 37.95N 27.37E 16 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=21.9.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=7.3km az=121.0.
ISC II 16 19 52 40.9–.96 39.94N–.02 29.42E–.03 14–9 36 0-2
DDA II 16 19 52 40.8 39.94N 29.41E 7 2.6 ¶16494564
ISK II 16 19 52 40.5 39.92N 29.33E 17 2.2
CSEM II 16 19 52 41.1–.13 39.93N 29.42E 2 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=75.0.
ISC II 16 20 15 34.3–.85 37.30N–.02 37.06E–.02 13–6 78 0-3
ISK II 16 20 15 33.6 37.32N 37.02E 2 2.9 ¶16494565
ISCJB II 16 20 15 34.4–.43 37.31N–.02 37.05E–.03 10–3 2.9
CSEM II 16 20 15 34.2–.16 37.33N 37.06E 2 3.0
DDA II 16 20 15 34.0 37.33N 37.09E 7 3.0
NSSC II 16 20 15 40.9–1.4 37.08N 36.59E 0–8 2.1L,1.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=36.2.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=122.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=10.6km s-min=18.6km az=-1.0.
ISC II 16 21 39 16.5–1.1 36.82N–.03 33.93E–.03 11–12 41 0-2
DDA II 16 21 39 15.9 36.85N 33.89E 19 2.8 ¶16494566
ISK II 16 21 39 16.2 36.84N 34.00E 5 2.9
CSEM II 16 21 39 17.0–.22 36.85N 33.93E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.6km az=81.0.
ISC II 16 22 16 31.3–.86 39.44N–.02 33.05E–.02 9–5 59 0-2
IASPE II 16 22 16 31.0–1.0 39.45N–.03 33.04E–.03 10–6 ¶16494567
DDA II 16 22 16 30.4 39.42N 33.07E 2 2.9
ISK II 16 22 16 30.6 39.48N 33.04E 6 2.8
CSEM II 16 22 16 31.1–.21 39.44N 33.04E 1–2 2.8
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=121.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=113.0.
ISC II 17 00 58 32.0–.84 39.63N–.02 27.49E–.02 16–6 78 0-2
ISCJB II 17 00 58 31.8–.40 39.63N–.02 27.48E–.03 6–4 ¶16494570
DDA II 17 00 58 31.6 39.61N 27.48E 7 2.8
ISK II 17 00 58 31.8 39.64N 27.51E 10 2.8
CSEM II 17 00 58 32.1–.07 39.64N 27.50E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=25.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=97.0.
ISC II 17 02 52 51.5–.92 37.81N–.03 27.38E–.02 8–10 34 0-1
DDA II 17 02 52 50.8 37.83N 27.39E 7 2.6 ¶16494573
ISCJB II 17 02 52 51.4–.53 37.79N–.04 27.38E–.03 11–5 2.6
CSEM II 17 02 52 51.5–.17 37.80N 27.39E 8 2.6
ISK II 17 02 52 51.4 37.80N 27.42E 10 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.4km az=2.5.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=21.0.
ISC II 17 02 55 40.1–.96 37.43N–.03 37.12E–.03 9–8 28 0-1
DDA II 17 02 55 39.7 37.39N 37.13E 8 2.6 ¶16494574
CSEM II 17 02 55 40.6–.15 37.43N 37.09E 8 2.6
ISK II 17 02 55 40.1 37.48N 37.10E 9 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.6km az=125.0.
ISK II 17 02 56 40.0 39.48N 39.00E 16 2.2
CSEM II 17 02 56 41.8–.38 39.37N 38.92E 10 2.2 ¶16494575
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=7.2km az=9.0.
ISC II 17 03 15 36.1–.93 37.81N–.03 27.37E–.03 9–8 26 0-1
DDA II 17 03 15 35.5 37.81N 27.38E 7 2.6 ¶601609707
ISCJB II 17 03 15 36.1–.56 37.83N–.04 27.38E–.04 4–12 2.6
CSEM II 17 03 15 36.9–.34 37.82N 27.42E 2 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.2km az=13.3.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=6.0km az=122.0.
ISC II 17 04 12 14.4–1.1 37.07N–.02 29.13E–.03 7–10 41 0-1
ISK II 17 04 12 13.6 37.04N 29.18E 13 2.9 ¶16494577
ISCJB II 17 04 12 14.4–.71 37.07N–.03 29.11E–.03 2–8 2.9
CSEM II 17 04 12 14.4–.14 37.06N 29.14E 10 2.7
DDA II 17 04 12 14.0 37.07N 29.10E 7 2.7

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=17.0.
DDA Event type ke.
ISC II 17 05 52 18.5–1.5 37.13N–.05 37.44E–.03 4–12 21 0-2
DDA II 17 05 52 18.0 37.11N 37.42E 7 2.6 ¶16494580
ISCJB II 17 05 52 18.4–1.3 37.12N–.05 37.42E–.05 2–8 2.6
CSEM II 17 05 52 18.6–.22 37.21N 37.39E 8 2.8
ISK II 17 05 52 19.1 37.13N 37.44E 14 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.2km az=174.9.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.3km az=172.0.
ISC II 17 09 31 01.2–1.2 37.90N–.02 27.38E–.02 2–11 52 0-2
DDA II 17 09 31 00.9 37.89N 27.37E 7 2.6 ¶16494581
ISCJB II 17 09 31 01.8–.45 37.88N–.02 27.34E–.03 4–6 2.6
ISK II 17 09 31 01.5 37.90N 27.36E 2 2.7
CSEM II 17 09 31 02.3–.16 37.90N 27.35E 2 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=78.0.
ISC II 17 10 27 02.8–.92 39.08N–.04 31.62E–.06 9 20 0-1
ISK II 17 10 27 02.3 39.08N 31.58E 13 2.5 ¶16494583
ISCJB II 17 10 27 03.2–.66 39.10N–.06 31.7E–.10 9 2.5
CSEM II 17 10 27 03.1–.16 39.09N 31.65E 12 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=4.3km az=144.5.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=2.8km az=56.0.
ISC II 17 14 38 28.7–1.1 36.60N–.02 34.82E–.02 33–4 141 0-5
ISK II 17 14 38 26.6 36.55N 34.76E 20 3.3 ¶16494589
CSEM II 17 14 38 28.3–.12 36.59N 34.80E 20 3.4
DDA II 17 14 38 29.1 36.64N 34.95E 29 3.4
NSSC II 17 14 38 30.3–1.5 36.39N 35.33E 128–23 3.2L
GII II 17 14 38 32.7–.46 36.27N 34.63E 10 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=70.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=16.0km s-min=32.6km az=-1.0.
GII Event type ke.
ISC II 17 22 19 14.6–1.1 37.00N–.02 35.46E–.02 13–9 65 0-2
ISCJB II 17 22 19 15.0–.43 37.00N–.02 35.44E–.02 11–3 ¶16494590
DDA II 17 22 19 14.1 36.97N 35.45E 7 2.9
CSEM II 17 22 19 15.3–.20 36.99N 35.43E 15 2.9
ISK II 17 22 19 15.0 37.03N 35.44E 9 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=15.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=37.0.
ISC II 18 04 54 56.1–1.0 37.87N–.01 27.28E–.01 4–9 177 0-4
DDA II 18 04 54 54.9 37.86N 27.27E 26 3.1 ¶16494594
ATH II 18 04 54 55.0 37.88N 27.33E 9–1 3.4L
ISK II 18 04 54 55.7 37.88N 27.26E 5 3.3L
CSEM II 18 04 54 56.6–.12 37.87N 27.30E 2 3.1
THE II 18 04 54 56.1 37.84N 27.21E 0–2 3.6L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=275.0. Analyst: K.L. ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=101.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=121.0.
ISC II 18 09 01 13.7–1.0 37.92N–.02 27.27E–.03 7–11 39 0-1
ISCJB II 18 09 01 14.0–.44 37.90N–.02 27.28E–.04 7–6 ¶16494599
DDA II 18 09 01 14.0 37.88N 27.24E 7 2.6
ISK II 18 09 01 13.8 37.92N 27.33E 16 2.4
CSEM II 18 09 01 14.1–.20 37.91N 27.30E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.7km az=148.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=74.0.
ISC II 18 09 35 27.2–1.3 39.96N–.07 36.25E–.03 4–11 30 1-2
ISK II 18 09 35 25.9 39.89N 36.30E 5 2.8 ¶16494600
CSEM II 18 09 35 27.3–.29 40.01N 36.25E 2 2.6
DDA II 18 09 35 28.6 39.94N 36.29E 6 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=3.6km az=174.0.
DDA Event type ke.
ISC II 18 10 17 39.1–1.2 37.90N–.06 30.38E–.04 9–10 19 0-2
CSEM II 18 10 17 38.2–.26 37.83N 30.30E 5 2.0 ¶16494602
ISK II 18 10 17 39.0 37.93N 30.64E 5 2.0
DDA II 18 10 17 39.2 37.98N 30.38E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.6km az=39.0.
DDA Event type ke.
ISC II 18 11 42 18.8–1.1 39.08N–.03 38.55E–.03 7–10 35 0-2
ISCJB II 18 11 42 18.8–.59 39.08N–.03 38.55E–.04 5–6 ¶16494607
CSEM II 18 11 42 18.8–.23 39.08N 38.57E 10 2.6
ISK II 18 11 42 18.4 39.10N 38.59E 14 2.6
DDA II 18 11 42 19.1 39.05N 38.50E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=146.0.
DDA Event type ke.
ISK II 18 11 49 15.1 37.13N 28.26E 23 2.6
¶16494608
ISC II 18 11 50 37.8–.92 39.05N–.02 37.17E–.03 1–9 32 0-2
DDA II 18 11 50 36.9 39.06N 37.30E 4 2.8 ¶16494609
ISCJB II 18 11 50 38.9–.70 39.01N–.03 37.09E–.07 4–12 2.8
CSEM II 18 11 50 40.2–.54 39.26N 37.27E 2 2.8
ISK II 18 11 50 40.0 39.04N 36.94E 21 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.4km az=175.9.
CSEM Event type ke. Error ellipse: s-maj=14.9km s-min=11.7km az=130.0.
ISK II 18 13 56 40.3 41.39N 35.85E 7 2.5
CSEM II 18 13 56 40.3 41.39N 35.85E 7 2.5 ¶16494616
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 18 15 04 01.9–1.1 40.76N–.02 34.87E–.03 5–10 63 1-3
CSEM II 18 15 04 01.7–.15 40.75N 34.83E 2 2.8 ¶16494621
DDA II 18 15 04 01.3 40.74N 34.85E 7 2.8
ISK II 18 15 04 01.0 40.76N 34.85E 4 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=95.0.
DDA Event type ke.
ISC II 18 16 55 02.7–1.0 39.45N–.02 39.00E–.02 10–10 51 0-2
ISK II 18 16 55 01.7 39.44N 39.02E 5 2.9 ¶16494624
CSEM II 18 16 55 02.7–.15 39.44N 39.01E 2 3.0
DDA II 18 16 55 02.3 39.43N 38.99E 6 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=157.0.
DDA Event type ke.
ISC II 18 18 46 47.8–1.1 39.98N–.03 33.23E–.02 7–11 40 0-2
ISK II 18 18 46 46.1 39.99N 33.22E 5 2.7 ¶16494626
CSEM II 18 18 46 47.8–.28 39.98N 33.24E 2 2.7
DDA II 18 18 46 47.5 39.95N 33.23E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.3km az=140.0.
DDA Event type ke.
ISC II 18 19 36 07.5–1.1 37.58N–.04 36.25E–.03 10–12 20 0-2
CSEM II 18 19 36 05.1–.42 37.80N 36.26E 5 2.4 ¶16494627
DDA II 18 19 36 06.8 37.56N 36.24E 7 2.7
ISK II 18 19 36 06.7 37.59N 36.26E 6 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=7.8km az=110.0.
DDA Event type ke.
ISC II 18 22 29 02.7–1.1 37.87N–.03 30.78E–.04 4–11 20 0-1
DDA II 18 22 29 01.6 37.88N 30.68E 6 2.6 ¶16494630
ISK II 18 22 29 01.8 37.82N 30.77E 5 2.2
CSEM II 18 22 29 02.6–.40 37.83N 30.77E 5 2.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.8km az=93.0.
ISC II 18 22 48 30.4–1.6 37.93N–.03 34.93E–.04 0–14 22 1-1
ISK II 18 22 48 30.6 37.93N 34.90E 20 2.9 ¶16494631
DDA II 18 22 48 33.6 37.88N 35.19E 19 2.8
CSEM II 18 22 48 33.4–.44 37.86N 35.12E 30 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.8km s-min=10.6km az=103.0.
ISC II 18 23 58 32.7–1.1 40.05N–.02 38.91E–.01 2–9 168 0-23
IDC II 18 23 58 29.6–3.5 39.83N 39.03E 0 3.6b,3.4 ¶16398521
ISK II 18 23 58 31.8 40.07N 38.95E 5 3.3L,2.9
DDA II 18 23 58 32.5 40.03N 38.92E 13 3.8L,2.9
CSEM II 18 23 58 33.2–.16 40.06N 38.94E 2 3.8L,2.9
ISC Event type ke.
IDC Error ellipse: s-maj=64.1km s-min=11.2km az=151.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=2.0.
ISC II 19 00 10 09.5–3.4 37.0N–.10 43.77E–.10 4–12 29 0-2
DDA II 19 00 10 08.9 36.99N 43.80E 7 3.2 ¶16358625
ISN II 19 00 10 08.3–.30 36.67N 43.41E 0 3.2L
CSEM II 19 00 10 10.2–1.7 36.94N 43.71E 5 3.2
ISK II 19 00 10 10.9 37.20N 43.78E 5 2.5L,2.5
ISC Event type ke.
DDA Event type ke.
ISN Error ellipse: s-maj=1.1km s-min=1.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=32.5km s-min=17.9km az=144.0.
ISC II 19 03 49 57.4–1.1 37.54N–.03 37.31E–.02 9–9 40 0-2
ISCJB II 19 03 49 57.5–.61 37.55N–.03 37.31E–.03 7–5 ¶16494633
CSEM II 19 03 49 57.1–.25 37.53N 37.31E 8 2.9
DDA II 19 03 49 57.3 37.57N 37.32E 7 2.8
ISK II 19 03 49 57.1 37.53N 37.29E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=20.2.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=5.1km az=19.0.
DDA Event type ke.
ISC II 19 07 43 44.5–1.1 38.40N–.03 27.56E–.02 5–14 26 1-1
ISK II 19 07 43 43.2 38.50N 27.59E 4 2.5 ¶16494634
DDA II 19 07 43 44.8 38.36N 27.54E 7 2.6
CSEM II 19 07 43 45.3–.39 38.37N 27.55E 2 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=7.2km az=12.0.
ISC II 19 12 41 34.9–1.5 36.49N–.04 29.08E–.03 17–12 53 0-2
ISK II 19 12 41 33.0 36.37N 29.10E 22 2.9L,2.9 ¶16494638
DDA II 19 12 41 34.2 36.51N 29.02E 7 3.0,2.9
CSEM II 19 12 41 35.3–.37 36.48N 29.10E 25–2 2.9,2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=5.5km az=16.0.
ISC II 19 12 56 56.3–1.2 36.44N–.05 29.03E–.03 15–10 32 0-3
DDA II 19 12 56 55.6 36.48N 29.00E 7 2.8 ¶16494641
ISK II 19 12 56 56.3 36.40N 29.02E 15 2.9
ISCJB II 19 12 56 57.7–.72 36.48N–.05 29.12E–.06 25–6 2.9
CSEM II 19 12 56 57.4–.40 36.48N 29.09E 19–1 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.4km az=38.2.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=6.3km az=22.0.
ISK II 19 12 57 25.7 40.32N 29.12E 14 2.3,2.1L
CSEM II 19 12 57 26.0–.09 40.32N 29.13E 15 2.3,2.1L ¶16494642
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=6.0.
ISC II 19 16 22 11.2–1.0 37.33N–.03 36.85E–.04 9–10 22 0-1
ISCJB II 19 16 22 10.9–.58 37.32N–.03 36.86E–.05 7–6 ¶16494649
DDA II 19 16 22 10.7 37.32N 36.88E 7 2.7
ISK II 19 16 22 10.5 37.33N 36.85E 5 2.7
CSEM II 19 16 22 11.1–.20 37.32N 36.84E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.3km az=13.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=92.0.
ISC II 19 18 27 20.1–.90 39.79N–.02 27.46E–.02 10–7 51 0-2
ISCJB II 19 18 27 20.0–.52 39.79N–.03 27.44E–.03 1–6 ¶16494650
DDA II 19 18 27 19.8 39.86N 27.49E 5 2.6
ISK II 19 18 27 19.8 39.78N 27.45E 6 2.6
CSEM II 19 18 27 20.3–.14 39.80N 27.46E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=162.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=148.0.
ISC II 19 18 39 12.7–1.1 39.78N–.02 27.42E–.02 2–10 51 0-2
ISK II 19 18 39 11.7 39.79N 27.39E 5 2.7 ¶16494651
CSEM II 19 18 39 12.7–.19 39.81N 27.41E 2 2.6
DDA II 19 18 39 13.0 39.82N 27.49E 1 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=157.0.
DDA Event type ke.
ISC II 19 18 50 48.6–.90 38.86N–.01 27.18E–.01 17–7 192 0-11
DDA II 19 18 50 48.0 38.90N 27.21E 18 3.6 ¶16494652
ATH II 19 18 50 48.2 38.83N 27.17E 30–2 3.2L
ISK II 19 18 50 48.3 38.83N 27.16E 5 3.3L
CSEM II 19 18 50 49.2–.12 38.82N 27.16E 10 3.3L
THE II 19 18 50 50.8 38.81N 27.09E 20–3 3.5L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.2km az=64.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=49.0.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=1.1km az=262.0.
ISC II 19 20 14 48.4–1.2 37.06N–.04 36.17E–.04 12–12 19 0-1
CSEM II 19 20 14 46.8–.65 37.17N 36.26E 5 2.7 ¶16494654
ISK II 19 20 14 46.8 37.06N 36.18E 5 2.7
DDA II 19 20 14 47.7 37.03N 36.14E 7 2.7
ISCJB II 19 20 14 48.0–.71 37.06N–.05 36.14E–.05 1–10 2.7
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC II 19 22 17 45.7–1.1 38.54N–.03 27.46E–.02 7–13 48 0-2
ISCJB II 19 22 17 45.6–.55 38.53N–.03 27.46E–.03 3–5 ¶16494655
CSEM II 19 22 17 45.8–.23 38.54N 27.45E 5 2.7
ISK II 19 22 17 45.2 38.54N 27.50E 8 2.7
DDA II 19 22 17 46.7 38.58N 27.52E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=137.8.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=57.0.
DDA Event type ke.
ISC II 20 03 25 44.1–1.3 38.53N–.03 27.49E–.03 1–11 32 0-2
CSEM II 20 03 25 44.4–.34 38.49N 27.35E 2 2.5 ¶16494658
ISK II 20 03 25 44.4 38.56N 27.57E 29 2.5
DDA II 20 03 25 47.2 38.55N 27.50E 7 2.7
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.9km az=131.0.
DDA Event type ke.
ISC II 20 04 54 12.8–1.1 39.27N–.02 39.79E–.02 2–10 123 0-10
ISK II 20 04 54 11.6 39.30N 39.80E 5 3.3L ¶16494661
DDA II 20 04 54 11.3 39.27N 39.76E 5 3.2
CSEM II 20 04 54 13.0–.15 39.29N 39.81E 2 3.2
ISN II 20 04 54 43.5–2.5 37.27N 41.72E 0–4 3.7L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=169.0.
ISN Error ellipse: s-maj=13.1km s-min=10.7km az=-1.0.
ISC II 20 05 36 14.1–1.0 39.88N–.03 39.02E–.03 14–10 41 0-5
ISN II 20 05 36 04.0–.30 37.75N 41.61E 0 2.9L ¶16494663
ISCJB II 20 05 36 13.8–.53 39.90N–.04 39.03E–.04 5–8 2.9L
CSEM II 20 05 36 13.8–.16 39.88N 39.05E 10 2.7
DDA II 20 05 36 13.8 39.83N 39.01E 6 2.6
ISK II 20 05 36 13.5 39.89N 39.03E 7 2.7
ISC Event type ke.
ISN Error ellipse: s-maj=1.1km s-min=1.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=25.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=165.0.
DDA Event type ke.
ISC II 20 05 46 43.9–1.0 39.26N–.02 39.77E–.02 8–9 113 0-6
DDA II 20 05 46 43.0 39.25N 39.75E 5 3.0 ¶16494664
ISK II 20 05 46 42.2 39.28N 39.74E 5 3.1L
CSEM II 20 05 46 43.7–.17 39.27N 39.77E 2 3.0
ISN II 20 05 47 07.2–41 37.34N 42.06E 0–99 3.2L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=139.0.
ISN Error ellipse: s-maj=90.4km s-min=104.8km az=-1.0.
ISC II 20 06 27 36.0–1.1 37.39N–.03 38.61E–.03 5–9 28 0-2
ISK II 20 06 27 35.4 37.36N 38.63E 6 2.3 ¶16494666
ISCJB II 20 06 27 36.4–.64 37.42N–.04 38.61E–.04 4–7 2.3
CSEM II 20 06 27 36.3–.19 37.42N 38.61E 5 2.3
DDA II 20 06 27 36.7 37.43N 38.55E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.1km az=14.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.9km az=55.0.
DDA Event type ke.
ISC II 20 07 18 11.7–.84 37.44N–.03 35.88E–.02 10–5 73 0-3
DDA II 20 07 18 10.5 37.45N 35.88E 18 3.0 ¶16494667
ISCJB II 20 07 18 11.4–.52 37.42N–.03 35.88E–.03 6–4 3.0
CSEM II 20 07 18 11.6–.19 37.41N 35.87E 8 3.1
ISK II 20 07 18 11.3 37.45N 35.91E 8 3.1L,3.1
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=173.7.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.4km az=178.0.
ISC II 20 07 53 33.8–.87 38.07N–.03 28.96E–.03 15–7 38 0-1
CSEM II 20 07 53 33.9–.12 38.06N 28.97E 15 2.7 ¶16494668
ISK II 20 07 53 33.4 38.06N 28.96E 16 2.7
ISCJB II 20 07 53 34.0–.47 38.06N–.03 28.96E–.04 9–5 2.7
DDA II 20 07 53 34.1 38.07N 28.97E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=40.8.
DDA Event type ke.
ISC II 20 07 58 30.9–.98 36.98N–.04 29.31E–.03 11–10 30 0-2
ISCJB II 20 07 58 30.7–.69 36.96N–.04 29.32E–.04 7–6 ¶16494669
CSEM II 20 07 58 30.7–.27 36.96N 29.33E 10 3.1
DDA II 20 07 58 30.0 36.96N 29.30E 7 2.6
ISK II 20 07 58 32.8 36.90N 29.16E 13 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=164.5.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.8km az=169.0.
DDA Event type ke.
ISC II 20 08 19 25.0–1.7 37.36N–.06 42.77E–.04 3–11 66 0-7
DDA II 20 08 19 25.1 37.42N 42.75E 5 3.7L ¶16358635
ISK II 20 08 19 25.4 37.37N 42.74E 6 3.5L
ISN II 20 08 19 25.1–2.6 36.85N 42.93E 0–4 3.6L
CSEM II 20 08 19 26.0–.58 37.41N 42.74E 2 3.7L
ISC Event type ke.
DDA Event type ke.
ISN Error ellipse: s-maj=7.3km s-min=12.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.7km s-min=4.5km az=144.0.
ISC II 20 10 28 43.1–.94 39.43N–.06 38.54E–.03 4–6 18 0-1
CSEM II 20 10 28 42.7 39.50N 38.56E 5 2.7 ¶16494671
ISK II 20 10 28 42.7 39.50N 38.56E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 20 14 13 57.7–1.0 40.62N–.02 34.80E–.02 7–7 3.7b 232 0-74
DDA II 20 14 13 56.9 40.59N 34.82E 19 4.4L ¶16398608
IDC II 20 14 13 56.2–.64 40.58N 34.77E 0 3.8,3.7
ISCJB II 20 14 13 57.5–.53 40.65N–.02 34.75E–.02 6–4 3.6b,3.7
CSEM II 20 14 13 58.2–.12 40.62N 34.75E 2 4.4L,3.7
ISK II 20 14 13 58.2 40.62N 34.69E 7 3.9L,3.7
ISC Event type ke.
DDA Event type ke.
IDC Error ellipse: s-maj=11.5km s-min=7.8km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=10.7.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=3.0.
ISC II 20 14 59 00.1–1.4 40.82N–.04 37.20E–.03 1–12 30 0-2
CSEM II 20 14 59 00.7–.37 40.86N 37.17E 8 2.6 ¶16494673
ISCJB II 20 14 59 01.0–.99 40.83N–.05 37.15E–.05 4–8 2.6
DDA II 20 14 59 01.7 40.77N 37.08E 7 2.6
ISK II 20 14 59 01.1 40.78N 37.16E 23 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.8km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.7km az=31.1.
DDA Event type ke.
ISC II 20 15 08 17.9–.58 40.56N–.02 36.93E–.01 10 138 0-22
IDC II 20 15 08 14.2–2.0 40.19N 37.10E 0 3.8,3.8s ¶16398611
DDA II 20 15 08 16.1 40.57N 36.92E 16 3.3,3.8s
ISK II 20 15 08 16.4 40.60N 36.94E 5 3.3L,3.8s
ISCJB II 20 15 08 17.8–.22 40.59N–.02 36.92E–.02 10 3.2b,3.8s
CSEM II 20 15 08 17.5–.13 40.58N 36.93E 2 3.3,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=11.4km az=155.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=20.3.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=12.0.
ISC II 20 16 20 03.9–.95 38.58N–.02 41.73E–.02 15–9 56 0-2
ISN II 20 16 19 59.2–.30 38.12N 41.99E 0 3.1L ¶16358636
DDA II 20 16 20 03.6 38.58N 41.72E 7 3.0
ISK II 20 16 20 03.4 38.57N 41.67E 13 3.0
ISCJB II 20 16 20 04.4–.44 38.55N–.03 41.72E–.04 17–6 3.0
CSEM II 20 16 20 04.2–.17 38.54N 41.74E 20 3.0
ISC Event type ke.
ISN Error ellipse: s-maj=2.6km s-min=1.8km az=-1.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=43.7.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=125.0.
ISC II 20 18 37 46.1–.99 39.10N–.03 42.50E–.04 17–9 35 0-1
ISCJB II 20 18 37 46.6–.63 39.07N–.04 42.58E–.06 26–7 ¶16494674
CSEM II 20 18 37 46.1–.26 39.09N 42.54E 18–2 2.7
DDA II 20 18 37 46.3 39.10N 42.46E 7 2.7
ISK II 20 18 37 46.7 39.13N 42.58E 30 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.4km az=27.6.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=129.0.

DDA Event type ke.
ISC II 20 19 05 31.2–1.0 40.02N–.02 33.97E–.02 8–10 59 1-2
DDA II 20 19 05 30.9 40.02N 34.00E 7 2.7 ¶16494675
ISK II 20 19 05 30.8 40.03N 33.92E 8 2.8
CSEM II 20 19 05 31.3–.16 40.00N 33.96E 5 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=119.0.
ISC II 20 19 13 36.9–1.1 37.60N–.03 29.86E–.02 12–10 41 0-2
CSEM II 20 19 13 36.9–.18 37.59N 29.88E 12 2.7 ¶16494676
ISK II 20 19 13 36.9 37.61N 29.89E 15 2.9
ISCJB II 20 19 13 37.0–.47 37.59N–.03 29.89E–.03 11–7 2.9
DDA II 20 19 13 38.2 37.58N 29.88E 4 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=144.5.
DDA Event type ke.
ISC II 20 20 10 34.1–.00 38.44N–.03 39.21E–.02 7–8 50 0-2
ISCJB II 20 20 10 33.9–.61 38.47N–.03 39.21E–.03 2–5 ¶16494677
CSEM II 20 20 10 33.8–.21 38.48N 39.23E 2 2.8
DDA II 20 20 10 33.8 38.43N 39.19E 7 2.8
ISK II 20 20 10 34.1 38.46N 39.23E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.5km az=25.1.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=29.0.
DDA Event type ke.
ISC II 20 20 25 06.7–1.1 39.04N–.02 29.16E–.04 6–10 30 0-1
ISK II 20 20 25 05.9 39.01N 29.36E 26 2.1 ¶16494678
ISCJB II 20 20 25 07.7–.60 39.11N–.04 29.08E–.05 5–9 2.1
CSEM II 20 20 25 07.9–.23 39.13N 29.04E 10 2.6
DDA II 20 20 25 07.4 39.09N 29.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.3km az=39.9.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=106.0.
DDA Event type ke.
ISC II 20 22 13 54.0–1.2 38.87N–.02 40.29E–.03 4–12 38 1-2
ISCJB II 20 22 13 53.6–.47 38.85N–.02 40.30E–.04 1–7 ¶16494680
CSEM II 20 22 13 53.8–.24 38.87N 40.29E 2 2.9
ISK II 20 22 13 53.3 38.83N 40.24E 2 2.9
DDA II 20 22 13 54.2 38.89N 40.32E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=173.1.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=82.0.
DDA Event type ke.
ISC II 20 22 38 48.1–1.2 38.11N–.03 39.05E–.04 13–10 28 0-1
ISCJB II 20 22 38 48.2–.62 38.11N–.03 39.04E–.04 10–5 ¶16494683
CSEM II 20 22 38 48.3–.19 38.11N 39.03E 15 2.6
DDA II 20 22 38 48.3 38.13N 39.02E 5 2.6
ISK II 20 22 38 48.5 38.08N 39.02E 21 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.9km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=50.0.
DDA Event type ke.
ISC II 20 23 24 05.5–1.1 39.03N–.02 33.88E–.03 7–10 34 0-1
CSEM II 20 23 24 05.3–.18 39.03N 33.89E 2 2.6 ¶16494686
DDA II 20 23 24 05.2 39.02N 33.89E 7 2.6
ISK II 20 23 24 05.1 39.03N 33.87E 8 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=104.0.
DDA Event type ke.
ISC II 21 00 01 43.6–1.2 37.37N–.03 36.19E–.03 2–11 28 0-2
DDA II 21 00 01 43.4 37.41N 36.17E 7 2.6 ¶16494687
ISK II 21 00 01 44.8 37.40N 36.08E 8 2.9
CSEM II 21 00 01 45.0–.49 37.41N 36.10E 2 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.9km s-min=9.3km az=44.0.
ISC II 21 02 01 29.9–1.0 39.05N–.03 36.73E–.03 12–10 28 0-1
CSEM II 21 02 01 29.9–.19 39.06N 36.73E 10 2.6 ¶16494688
ISK II 21 02 01 29.3 39.04N 36.72E 21 2.8
ISCJB II 21 02 01 30.6–1.0 39.08N–.04 36.72E–.04 18–13 2.8
DDA II 21 02 01 30.4 39.08N 36.70E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.4km az=142.7.
DDA Event type ke.
ISC II 21 02 53 34.1–1.5 37.42N–.03 37.24E–.02 2–12 38 0-2
ISK II 21 02 53 33.1 37.38N 37.26E 5 2.8 ¶16494691
ISCJB II 21 02 53 34.5–.85 37.40N–.04 37.21E–.04 3–7 2.8
CSEM II 21 02 53 34.7–.23 37.42N 37.22E 8 2.8
DDA II 21 02 53 34.6 37.46N 37.20E 3 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.7km az=10.2.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=14.0.
DDA Event type ke.
ISC II 21 03 11 05.6–1.2 38.51N–.02 31.42E–.02 0–12 76 0-3
DDA II 21 03 11 04.9 38.52N 31.42E 7 2.9 ¶16494693
ISCJB II 21 03 11 05.2–.53 38.51N–.02 31.45E–.03 0–5 2.9
CSEM II 21 03 11 05.6–.12 38.52N 31.44E 2 2.9
ISK II 21 03 11 05.5 38.53N 31.46E 5 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=12.7.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=21.0.
DDA II 21 04 30 49.9 38.81N 27.58E 7 2.3
¶601609752
DDA Event type ke.
ISC II 21 08 42 42.7–1.1 39.46N–.04 39.03E–.03 8–10 36 0-2
ISCJB II 21 08 42 42.9–.64 39.44N–.04 39.03E–.04 5–6 ¶16494696
CSEM II 21 08 42 42.7–.20 39.44N 39.04E 8 2.6
DDA II 21 08 42 42.7 39.40N 39.04E 7 2.6
ISK II 21 08 42 42.5 39.51N 39.00E 9 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.2km az=161.7.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.1km az=159.0.
DDA Event type ke.
ISC II 21 09 01 50.1–1.1 39.48N–.03 38.99E–.02 6–11 38 0-2
DDA II 21 09 01 50.1 39.44N 39.02E 8 2.7 ¶16494697
ISK II 21 09 01 50.1 39.51N 39.01E 11 2.6
CSEM II 21 09 01 51.3–.36 39.45N 39.00E 20 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=7.4km az=160.0.
ISC II 21 10 03 16.1–1.0 39.65N–.03 30.09E–.02 15–9 37 0-2
DDA II 21 10 03 16.0 39.63N 30.09E 5 2.6 ¶16494699
ISCJB II 21 10 03 16.1–.55 39.63N–.03 30.06E–.03 8–6 2.6
CSEM II 21 10 03 16.0–.16 39.65N 30.08E 12 2.6
ISK II 21 10 03 16.5 39.66N 30.00E 20 2.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=8.9.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=11.0.
ISC II 21 11 41 59.2–.95 38.53N–.03 42.20E–.03 4–8 34 0-2
ISCJB II 21 11 41 59.5–.50 38.50N–.03 42.23E–.04 4–5 ¶16494702
CSEM II 21 11 41 59.4–.15 38.52N 42.24E 5 2.9
DDA II 21 11 41 59.2 38.53N 42.25E 3 2.9
ISK II 21 11 41 59.8 38.45N 42.21E 18 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.2km az=154.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=124.0.
DDA Event type ke.

ISC	**II**	**21 12 09 36.6–1.1**	**39.44N–.03**	**31.40E–.02**	**1–11**		**47**	**0-1**
CSEM	II	21 12 09 36.6–.15	39.46N	31.39E	2	2.8		¶16494703
DDA	II	21 12 09 36.0	39.44N	31.40E	7	2.4		
ISK	II	21 12 09 36.6	39.47N	31.45E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=36.0.							
DDA	Event type ke.							
ISC	**II**	**21 19 29 14.3–1.0**	**39.10N–.03**	**41.90E–.03**	**10–10**		**30**	**0-2**
ISCJB	II	21 19 29 14.0–.84	39.10N–.04	41.91E–.06	5–8			¶16494710
CSEM	II	21 19 29 13.9–.18	39.11N	41.90E	5	3.0		
DDA	II	21 19 29 14.0	39.10N	41.84E	7	3.0		
ISK	II	21 19 29 13.8	39.10N	41.93E	9	2.8L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.5km s-min=5.7km az=162.2.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=89.0.							
DDA	Event type ke.							
ISC	**II**	**21 23 54 37.2–1.2**	**38.49N–.03**	**31.40E–.02**	**0–12**		**58**	**0-2**
ISK	II	21 23 54 36.6	38.47N	31.37E	3	2.8		¶16494713
DDA	II	21 23 54 37.1	38.47N	31.43E	7	2.9		
CSEM	II	21 23 54 37.3–.15	38.46N	31.38E	2	2.9		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=33.0.							
ISC	**II**	**22 01 18 42.1–1.1**	**37.90N–.03**	**43.08E–.03**	**7–11**		**41**	**0-4**
ISK	II	22 01 18 39.3	37.83N	43.20E	5	2.8		¶16494717
CSEM	II	22 01 18 40.3–.25	37.82N	43.25E	2	3.0		
DDA	II	22 01 18 42.8	37.91N	43.02E	7	3.0		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=113.0.							
DDA	Event type ke.							
ISC	**II**	**22 02 18 18.8–1.1**	**37.86N–.03**	**43.09E–.03**	**5–13**		**40**	**0-2**
ISK	II	22 02 18 16.6	37.83N	43.23E	2	2.9		¶16494719
CSEM	II	22 02 18 17.5–.24	37.84N	43.24E	2	2.8		
DDA	II	22 02 18 19.7	37.90N	43.00E	8	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=3.8km az=111.0.							
DDA	Event type ke.							
ISC	**II**	**22 02 36 19.7–1.1**	**38.48N–.02**	**39.17E–.03**	**29–12**		**46**	**0-2**
DDA	II	22 02 36 18.5	38.45N	39.11E	7	2.6		¶16494720
ISK	II	22 02 36 18.3	38.44N	39.14E	21	2.9		
CSEM	II	22 02 36 19.5–.28	38.47N	39.18E	20	2.9		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=7.9km s-min=6.1km az=62.0.							
ISC	**II**	**22 05 36 14.4–1.2**	**37.83N–.03**	**43.09E–.03**	**3–12**		**40**	**0-2**
CSEM	II	22 05 36 13.6–.23	37.81N	43.17E	2	2.8		¶16494721
ISK	II	22 05 36 13.1	37.82N	43.18E	6	2.8		
DDA	II	22 05 36 15.2	37.88N	43.01E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=115.0.							
DDA	Event type ke.							
ISC	**II**	**22 06 24 01.5–1.1**	**40.97N–.03**	**30.59E–.02**	**6–9**		**52**	**0-2**
CSEM	II	22 06 24 01.6–.14	40.95N	30.58E	10	2.2		¶16494723
DDA	II	22 06 24 01.1	41.02N	30.62E	7	2.2		
ISK	II	22 06 24 01.4	40.94N	30.56E	12	3.1		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=20.0.							
DDA	Event type ke.							
ISC	**II**	**22 06 36 49.9–.83**	**38.97N–.01**	**42.30E–.01**	**8–6**	**3.8b,3.4s**	**338**	**0-95**
NSSC	II	22 06 36 09.0–1.5	40.62N	45.60E	177–190	4.1L,3.4s		¶16358642
ISN	II	22 06 36 37.8–2.5	39.49N	42.24E	0–164	4.1L,3.4s		
ISK	II	22 06 36 47.4	39.01N	42.32E	5	4.1L,3.4s		
IDC	II	22 06 36 47.9–.95	38.93N	42.34E	0	3.7,3.7		
MOS	II	22 06 36 48.7–1.8	39.01N	42.25E	10	4.0b,3.7		
DDA	II	22 06 36 48.2	38.97N	42.33E	10	4.2L,3.7		
TEH	II	22 06 36 48.0	38.97N	42.33E	10	4.2L,3.7		
CSEM	II	22 06 36 50.2–.11	38.95N	42.28E	10	4.1b,3.7		
AZER	II	22 06 36 52.0–.44	39.14N	42.30E	10	4.1b,3.7		
NSSP	II	22 06 37 47.5	38.98N	42.53E	10	4.1s,3.7		
ISC	Event type ke.							
NSSC	Error ellipse: s-maj=24.1km s-min=36.6km az=-1.0.							
ISN	Error ellipse: s-maj=207.8km s-min=32.8km az=-1.0.							
IDC	Error ellipse: s-maj=18.9km s-min=9.1km az=161.0.							
MOS	Error ellipse: s-maj=9.7km s-min=4.8km az=80.4.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=167.0.							
AZER	Error ellipse: s-maj=4.2km s-min=2.8km az=8.0.							
ISC	**II**	**22 08 14 52.6–1.1**	**38.98N–.01**	**42.31E–.01**	**3–9**		**156**	**0-64**
ISK	II	22 08 14 51.6	39.01N	42.31E	5	3.7L		¶16398728
IDC	II	22 08 14 52.0–2.4	38.94N	42.22E	0	3.8b,3.4		
CSEM	II	22 08 14 52.6–.16	38.99N	42.34E	2	3.8L,3.4		
DDA	II	22 08 14 52.3	39.00N	42.34E	10	3.8L,3.4		
NSSP	II	22 08 14 56.0	39.00N	42.32E	6	3.6s,3.4		
AZER	II	22 08 14 56.8–7.6	38.56N	42.22E	6	3.6s,3.4		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=36.6km s-min=12.0km az=170.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=137.0.							
DDA	Event type ke.							
AZER	Error ellipse: s-maj=84.2km s-min=51.6km az=126.0.							
ISC	**II**	**22 09 08 17.2–.55**	**38.99N–.01**	**42.31E–.01**	**6–3**	**4.4b,4.1s**	**390**	**0-95**
AZER	II	22 09 08 13.9–3.2	39.88N	40.96E	5	4.4b,4.1s		¶16154795
NEIC	II	22 09 08 14.6	38.98N	42.31E	5	4.4L,4.4b		
ISK	II	22 09 08 14.6	38.99N	42.31E	5	4.4L,4.4b		
MOS	II	22 09 08 16.8–1.5	39.04N	42.22E	9	4.5b,4.4b		
IDC	II	22 09 08 16.4–.72	39.12N	42.25E	0	4.1,4.0		
DDA	II	22 09 08 16.4	39.00N	42.36E	8	4.3L,4.0		
CSEM	II	22 09 08 16.4–.13	38.97N	42.36E	2	4.4b,4.0		
TEH	II	22 09 08 19.0	38.93N	42.14E	10	4.5L,4.0		
NSSP	II	22 09 08 19.2	38.98N	42.50E	7	4.4s,4.0		
BJI	II	22 09 08 20.0	39.00N	42.40E	8	4.9b,4.5b		
ISN	II	22 09 08 32.7–1.7	37.96N	42.40E	5–6	4.4L,4.5b		
ISC	Event type ke.							
AZER	Error ellipse: s-maj=33.7km s-min=20.5km az=90.0.							
NEIC	Event type se. After ISK.							
MOS	Error ellipse: s-maj=6.3km s-min=4.2km az=88.5.							
IDC	Error ellipse: s-maj=14.6km s-min=8.6km az=172.0.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=174.0.							
ISN	Error ellipse: s-maj=10.2km s-min=12.7km az=-1.0.							
ISC	**II**	**22 09 11 45.8–.59**	**38.98N–.01**	**42.28E–.01**	**6–3**	**4.5b,3.9s**	**452**	**0-93**
AZER	II	22 09 11 34.4–4.4	39.36N	40.41E	2	4.5b,3.9s		¶16154796
ISN	II	22 09 11 39.3–2.5	39.49N	42.40E	10–154	4.5L,3.9s		
ISK	II	22 09 11 44.1	39.01N	42.29E	5	4.5L,3.9s		
NEIC	II	22 09 11 44.0	38.98N	42.30E	5	4.6b,4.5L		
DDA	II	22 09 11 44.7	38.99N	42.35E	18	4.5L,4.5L		
IDC	II	22 09 11 44.1–.57	38.99N	42.22E	0	4.2,4.2		
MOS	II	22 09 11 45.0–1.9	38.95N	42.35E	10	4.7b,4.2		
ISCJB	II	22 09 11 45.2–.42	38.97N–.01	42.32E–.02	8–3	4.4b,3.9s		
CSEM	II	22 09 11 45.8–.12	38.99N	42.29E	8	4.5b,3.9s		
BJI	II	22 09 11 46.0	39.00N	42.50E	5	4.9b,4.5b		
TEH	II	22 09 11 48.0	39.00N	42.37E	10	4.6L,4.5b		
NSSP	II	22 09 12 45.5	38.97N	42.42E	10	4.6L,4.5b		
ISC	Event type ke.							
AZER	Error ellipse: s-maj=26.8km s-min=16.2km az=72.0.							
ISN	Error ellipse: s-maj=194.9km s-min=29.2km az=-1.0.							
NEIC	Event type se. After ISK.							
DDA	Event type ke.							
IDC	Error ellipse: s-maj=12.7km s-min=8.2km az=168.0.							
MOS	Error ellipse: s-maj=6.1km s-min=3.9km az=101.4.							
ISCJB	Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=164.7.							
CSEM	Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=167.0.							

ISC	**II**	**22 09 13 06.7–1.1**	**38.98N–.02**	**42.33E–.02**	**4–10**		**52**	**0-2**
CSEM	II	22 09 13 06.4–.18	39.00N	42.27E	12	3.2		¶16494733
ISK	II	22 09 13 06.7	39.03N	42.23E	5	2.9		
DDA	II	22 09 13 07.3	39.01N	42.35E	14	3.2		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=127.0.							
DDA	Event type ke.							
ISC	**II**	**22 09 16 06.9–.47**	**38.99N–.01**	**42.37E–.01**	**9–3**	**3.9b**	**288**	**0-77**
ISK	II	22 09 16 06.1	38.99N	42.32E	5	4.3L		¶16358643
NEIC	II	22 09 16 06.0	38.99N	42.32E	5	4.3L		
IDC	II	22 09 16 06.6–.85	39.04N	42.24E	0	3.9,3.8		
DDA	II	22 09 16 06.8	39.00N	42.37E	27	4.2L,3.8		
NSSP	II	22 09 16 07.3	39.02N	42.53E	5	4.0s,3.8		
CSEM	II	22 09 16 07.1–.13	38.98N	42.34E	2	4.1b,3.8		
ISN	II	22 09 16 08.3–.30	38.54N	42.63E	5	4.3L,3.8		
MOS	II	22 09 16 08.7–2.0	39.03N	42.28E	12	4.1b,3.8		
AZER	II	22 09 16 14.6–.56	39.31N	41.88E	25	4.1b,3.8		
ISC	Event type ke.							
NEIC	Event type se. After ISK.							
IDC	Error ellipse: s-maj=18.6km s-min=10.2km az=166.0.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=137.0.							
ISN	Error ellipse: s-maj=2.9km s-min=0.7km az=-1.0.							
MOS	Error ellipse: s-maj=10.1km s-min=5.4km az=81.0.							
AZER	Error ellipse: s-maj=6.7km s-min=3.9km az=4.0.							
ISC	**II**	**22 09 19 48.7–1.1**	**38.95N–.02**	**42.33E–.02**	**12–10**		**49**	**0-1**
ISCJB	II	22 09 19 49.3–.51	38.93N–.02	42.33E–.03	11–4			¶16494734
CSEM	II	22 09 19 49.3–.19	38.95N	42.33E	20	3.0		
DDA	II	22 09 19 49.6	39.00N	42.35E	7	3.0		
ISK	II	22 09 19 49.0	38.98N	42.33E	24	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=150.4.							
CSEM	Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=157.0.							
DDA	Event type ke.							
ISC	**II**	**22 09 24 05.2–1.2**	**38.98N–.03**	**42.33E–.03**	**5–11**		**35**	**0-2**
DDA	II	22 09 24 05.2	39.00N	42.37E	7	2.8		¶601609809
CSEM	II	22 09 24 06.3–.30	39.03N	42.31E	17–2	2.8		
ISK	II	22 09 24 06.2	39.07N	42.26E	14	2.9		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=129.0.							
ISC	**II**	**22 09 45 46.4–1.1**	**38.97N–.02**	**42.32E–.02**	**3–10**		**88**	**0-4**
ISK	II	22 09 45 44.7	38.99N	42.33E	5	3.2L		¶16494739
DDA	II	22 09 45 45.8	38.97N	42.34E	13	3.4		
CSEM	II	22 09 45 46.6–.23	38.96N	42.34E	10	3.4		
NSSP	II	22 09 45 50.4	38.97N	42.40E	27	3.6s		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.5km s-min=4.8km az=108.0.							
DDA	**II**	**22 11 01 12.2**	**39.01N**	**42.41E**	**7**	**2.7**		
CSEM	II	22 11 01 12.2	39.01N	42.41E	7	2.7		¶602002015
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**II**	**22 11 01 59.2–1.2**	**39.33N–.06**	**40.40E–.04**	**10**		**13**	**1-1**
ISCJB	II	22 11 01 58.0–.90	39.32N–.07	40.42E–.06	10			¶601778806
ISK	II	22 11 01 57.7	39.35N	40.39E	4	2.7		
CSEM	II	22 11 01 57.7	39.35N	40.39E	4	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.2km s-min=6.1km az=173.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
DDA	**II**	**22 11 02 20.2**	**38.99N**	**42.41E**	**7**	**2.6**		
CSEM	II	22 11 02 20.2	38.99N	42.41E	7	2.6		¶601609821
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**II**	**22 12 11 09.8–3.5**	**39.0N–.20**	**42.36E–.06**	**27–11**		**10**	**0-1**
DDA	II	22 12 11 09.9	38.96N	42.39E	7	2.7		¶601609826
ISC	Event type ke.							
DDA	Event type ke.							
ISC	**II**	**22 12 35 27.2–1.2**	**41.54N–.05**	**36.08E–.03**	**16–9**		**28**	**0-2**
CSEM	II	22 12 35 26.7–.40	41.56N	36.09E	5	2.6		¶16494750
DDA	II	22 12 35 26.1	41.54N	36.08E	22	2.6		
ISK	II	22 12 35 26.9	41.53N	36.05E	6	2.4		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.5km s-min=5.5km az=11.0.							
DDA	Event type ke.							
ISC	**II**	**22 12 48 21.6–1.2**	**39.02N–.04**	**42.24E–.06**	**3–15**		**22**	**0-1**
ISK	II	22 12 48 21.5	39.12N	42.28E	5	2.6		¶16494751
CSEM	II	22 12 48 21.5–.58	39.01N	42.29E	5	2.7		
DDA	II	22 12 48 22.6	39.00N	42.40E	7	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=12.9km s-min=11.2km az=126.0.							
DDA	Event type ke.							
ISC	**II**	**22 13 00 52.3–1.5**	**38.97N–.03**	**42.35E–.04**	**21–3**		**26**	**0-1**
ISCJB	II	22 13 00 52.2–.69	38.97N–.03	42.34E–.05	13–6			¶16494754
CSEM	II	22 13 00 52.2–.36	38.98N	42.33E	5	2.8		
ISK	II	22 13 00 52.6	39.08N	42.30E	4	2.4		
DDA	II	22 13 00 53.1	39.01N	42.37E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=5.6km az=26.1.							
CSEM	Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=124.0.							
ISC	**II**	**22 13 12 47.4–1.3**	**38.95N–.04**	**42.37E–.05**	**18–4**		**26**	**0-1**
ISCJB	II	22 13 12 45.9–1.1	38.87N–.04	42.40E–.06	6–7			¶16494755
ISK	II	22 13 12 45.7	38.89N	42.37E	11	2.5		
CSEM	II	22 13 12 46.7–.36	38.93N	42.37E	15	2.9		
DDA	II	22 13 12 48.0	38.98N	42.29E	7	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=6.6km az=35.3.							
CSEM	Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=125.0.							
DDA	Event type ke.							
ISC	**II**	**22 13 23 59.3–.91**	**38.09N–.03**	**28.98E–.03**	**15–8**		**32**	**0-1**
ISCJB	II	22 13 23 59.4–.58	38.08N–.04	28.97E–.04	9–6			¶16494756
CSEM	II	22 13 23 59.3–.12	38.08N	28.98E	15	2.8		
DDA	II	22 13 23 59.3	38.07N	28.96E	7	2.6		
ISK	II	22 13 23 59.0	38.10N	28.98E	16	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.1km s-min=4.9km az=171.3.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=148.0.							
DDA	Event type ke.							
ISC	**II**	**22 14 17 08.1–.94**	**39.06N–.03**	**42.25E–.02**	**17–7**		**44**	**0-2**
CSEM	II	22 14 17 07.4–.25	39.06N	42.24E	10	2.8		¶16494758
DDA	II	22 14 17 07.6	39.07N	42.24E	7	2.8		
ISK	II	22 14 17 07.1	39.08N	42.23E	3	2.9,2.5L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=21.0.							
DDA	Event type ke.							
ISC	**II**	**22 14 36 05.0–1.0**	**39.00N–.02**	**42.27E–.03**	**8–11**		**37**	**0-2**
CSEM	II	22 14 36 04.8–.27	39.00N	42.27E	12	2.7		¶16494760
DDA	II	22 14 36 04.8	38.97N	42.37E	7	2.7		
ISK	II	22 14 36 04.3	39.01N	42.24E	8	2.5		
ISCJB	II	22 14 36 05.1–.57	38.99N–.03	42.30E–.04	12–5	2.5		
ISC	Event type ke.							
CSEM	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**22 15 23 41.2–.90**	**37.86N–.02**	**27.29E–.01**	**9–7**	**3.5b**	**199**	**0-41**
ISK	II	22 15 23 39.9	37.87N	27.34E	5	3.6L		¶16398755
ATH	II	22 15 23 39.8	37.87N	27.34E	13–1	3.5L		
IDC	II	22 15 23 39.6–1.5	37.76N	27.34E	0	3.5,3.5		
ISCJB	II	22 15 23 40.7–.39	37.87N–.02	27.30E–.02	6–3	3.4b,3.5		
CSEM	II	22 15 23 40.9–.09	37.86N	27.29E	2	3.4,3.5		
THE	II	22 15 23 41.1	37.87N	27.26E	1–1	3.5L,3.5		

DDA II 22 15 23 41.3 37.87N 27.27E 2 3.4,3.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=243.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=51.1km s-min=18.0km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=29.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=105.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=193.0.
DDA Event type ke.
ISC II 22 16 20 22.6–1.1 38.98N–.03 42.37E–.04 17–8 18 0-1
ISCJB II 22 16 20 22.6–.78 38.97N–.04 42.37E–.05 12–9 **¶601609845**
CSEM II 22 16 20 23.3 39.02N 42.41E 7 2.7
DDA II 22 16 20 23.3 39.02N 42.41E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.6km az=33.1.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC II 22 16 51 12.2–1.1 38.99N–.03 42.46E–.05 6–11 25 0-1
CSEM II 22 16 51 12.6–.46 38.96N 42.44E 2 2.9 **¶16494768**
DDA II 22 16 51 12.6 39.02N 42.35E 7 2.9
ISK II 22 16 51 13.0 38.93N 42.51E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=6.9km az=118.0.
DDA Event type ke.
ISC II 22 18 15 54.1–.55 38.95N–.01 42.32E–.01 4–3 4.5b,3.9s 642 0-95
NSSC II 22 18 15 21.4–4.0 40.41N 44.78E 37–999 4.5L,3.9s **¶601609847**
DDA II 22 18 15 52.9 38.97N 42.33E 4 4.4L,3.9s
NEIC II 22 18 15 52.9 38.93N 42.34E 5 4.5L,4.5b
TEH II 22 18 15 53.0 38.97N 42.33E 4 4.8L,4.5b
MOS II 22 18 15 53.9–1.5 38.89N 42.27E 12 4.6b,4.5b
NSSP II 22 18 15 54.0 38.97N 42.52E 5 4.5s,4.5b
ISK II 22 18 15 53.1 38.93N 42.29E 3 4.5L,4.5b
IDC II 22 18 15 53.4–.52 39.02N 42.19E 0 4.3,4.2
AZER II 22 18 15 53.2–1.4 38.96N 41.92E 2 4.3,4.2
CSEM II 22 18 15 54.1–.10 38.93N 42.28E 2 4.6b,4.2
ISCJB II 22 18 15 54.7–.13 38.92N–.01 42.30E–.01 13 4.4b,3.9s
BJI II 22 18 15 55.0 39.00N 42.30E 5 4.8b,4.6s
ISN II 22 18 16 05.7–1.4 37.95N 42.53E 4–5 4.5L,4.6s
ISC Event type ke.
NSSC Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
DDA Event type ke.
NEIC Event type se. After ISK.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=100.1.
IDC Error ellipse: s-maj=11.2km s-min=7.2km az=160.0.
AZER Error ellipse: s-maj=14.2km s-min=9.4km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=164.5.
ISN Error ellipse: s-maj=7.2km s-min=9.9km az=-1.0.
ISC II 22 18 45 08.2–1.1 39.00N–.04 42.33E–.04 12–12 26 0-1
ISK II 22 18 45 07.4 38.97N 42.36E 5 2.5 **¶16494773**
ISCJB II 22 18 45 08.2–.64 38.99N–.04 42.34E–.09 10–9 2.5
CSEM II 22 18 45 08.0–.20 39.00N 42.32E 12 2.7
DDA II 22 18 45 09.0 39.02N 42.33E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=4.7km az=19.6.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=117.0.
DDA Event type ke.
ISC II 22 21 20 34.8–1.0 36.94N–.02 29.36E–.03 9–10 38 0-2
ISK II 22 21 20 33.6 36.94N 29.35E 7 3.0 **¶16494784**
ISCJB II 22 21 20 34.4–.60 36.93N–.04 29.34E–.05 2–8 3.0
CSEM II 22 21 20 34.5–.18 36.92N 29.35E 8 2.8
DDA II 22 21 20 35.3 37.00N 29.34E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.3km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=52.0.
DDA Event type ke.
ISC II 22 22 04 10.8–1.1 39.93N–.03 40.80E–.02 5–10 42 0-2
ISK II 22 22 04 10.0 39.91N 40.78E 5 2.8 **¶16494785**
DDA II 22 22 04 11.0 39.93N 40.85E 7 3.0
CSEM II 22 22 04 11.3–.21 39.92N 40.81E 8 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=6.0.
ISC II 22 22 17 24.7–1.1 38.98N–.02 42.35E–.03 6–12 35 0-1
ISCJB II 22 22 17 24.4–.57 38.97N–.03 42.33E–.05 7–7 **¶16494786**
CSEM II 22 22 17 24.3–.20 38.97N 42.35E 15 2.6
DDA II 22 22 17 24.7 39.00N 42.37E 7 2.6
ISK II 22 22 17 29.5 39.00N 40.88E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=166.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=75.0.
DDA Event type ke.
ISC II 22 23 18 05.0–1.2 38.96N–.03 42.37E–.04 27–12 25 0-1
ISK II 22 23 18 03.7 38.97N 42.35E 4 2.6 **¶16494789**
CSEM II 22 23 18 04.6–.31 38.98N 42.30E 5 2.6
DDA II 22 23 18 05.9 39.01N 42.36E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=5.5km az=119.0.
DDA Event type ke.
ISC II 23 02 18 02.3–.97 38.93N–.03 29.41E–.03 12–9 26 0-1
CSEM II 23 02 18 02.3–.20 38.94N 29.42E 10 2.6 **¶16494791**
DDA II 23 02 18 02.5 38.93N 29.40E 7 2.6
ISK II 23 02 18 02.1 39.02N 29.33E 30 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=122.0.
DDA Event type ke.
ISC II 23 02 42 37.5–1.3 39.05N–.04 38.10E–.03 3–15 22 1-1
ISK II 23 02 42 35.0 38.89N 38.36E 10 2.7 **¶16494793**
ISCJB II 23 02 42 37.2–.65 39.08N–.03 38.10E–.04 0–14 2.7
CSEM II 23 02 42 37.3–.28 39.06N 38.11E 2 2.6
DDA II 23 02 42 37.0 39.09N 38.10E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.5km az=42.2.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.9km az=177.0.
DDA Event type ke.
ISC II 23 03 16 04.5–1.3 40.22N–.06 29.34E–.06 4–13 14 0-1
CSEM II 23 03 16 01.8–1.8 40.33N 29.18E 2 2.7 **¶601609875**
DDA II 23 03 16 04.8 40.21N 29.28E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=32.8km s-min=16.1km az=139.0.
DDA Event type ke.
ISC II 23 05 37 38.3–.88 39.66N–.04 41.16E–.03 12–7 34 0-2
CSEM II 23 05 37 37.9–.22 39.61N 41.18E 5 2.6 **¶16494799**
ISK II 23 05 37 37.1 40.20N 41.42E 5 2.9
ISCJB II 23 05 37 38.1–.70 39.61N–.04 41.20E–.03 3–6 2.9
DDA II 23 05 37 38.3 39.67N 41.17E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.2km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.4km az=1.3.
DDA Event type ke.
ISC II 23 06 14 26.7–1.1 37.39N–.04 27.73E–.03 12 20 0-1
DDA II 23 06 14 24.7 37.52N 27.62E 7 2.6 **¶16494801**
ISK II 23 06 14 25.9 37.44N 27.65E 7 2.5
ISCJB II 23 06 14 26.3–.85 37.42N–.05 27.69E–.05 12 2.5
CSEM II 23 06 14 26.3–.44 37.42N 27.71E 2 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.2km az=148.2.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=7.7km az=129.0.
ISC II 23 07 22 38.0–.98 38.98N–.02 42.32E–.03 12–9 43 0-2
ISK II 23 07 22 36.6 38.98N 42.33E 5 3.0 **¶16494802**
ISCJB II 23 07 22 37.8–.62 38.98N–.02 42.31E–.04 3–5 3.0
CSEM II 23 07 22 37.7–.18 39.00N 42.32E 15 2.9
DDA II 23 07 22 37.7 38.96N 42.31E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=177.4.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=96.0.
DDA Event type ke.
ISC II 23 08 51 52.8–1.1 38.97N–.03 42.36E–.03 8–10 31 0-1
ISCJB II 23 08 51 52.7–.64 38.94N–.03 42.41E–.06 10–6 **¶16494803**
CSEM II 23 08 51 52.4–.24 38.97N 42.32E 5 2.8
ISK II 23 08 51 52.5 38.97N 42.34E 5 2.9
DDA II 23 08 51 53.1 39.00N 42.34E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.5km az=20.5.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=114.0.
DDA Event type ke.
ISC II 23 10 24 20.0–.00 37.31N–.04 38.59E–.05 9 17 0-2
ISCJB II 23 10 24 19.8–.00 37.25N–.05 38.68E–.08 9 **¶601609890**
CSEM II 23 10 24 19.0 37.28N 38.63E 7 2.6
DDA II 23 10 24 19.0 37.28N 38.63E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.9km az=25.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
ISC II 23 12 51 54.4–1.2 37.28N–.03 32.99E–.03 9–11 46 1-2
ISK II 23 12 51 53.9 37.29N 32.99E 9 3.0 **¶16494811**
CSEM II 23 12 51 54.3–.15 37.29N 33.00E 5 3.0
DDA II 23 12 51 54.0 37.29N 33.00E 9 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=51.0.
DDA Event type ke.
ISC II 23 12 53 24.0–3.5 39.0N–.20 42.38E–.05 8–16 10 0-1
DDA II 23 12 53 24.0 38.99N 42.43E 7 2.8 **¶601609896**
ISC Event type ke.
DDA Event type ke.
ISC II 23 13 07 02.1–.96 39.91N–.03 33.06E–.03 9 26 0-2
DDA II 23 13 07 01.9 39.90N 33.04E 7 2.6 **¶16494812**
ISCJB II 23 13 07 02.6–.53 39.91N–.03 33.05E–.05 9 2.6
CSEM II 23 13 07 02.3–.20 39.92N 33.05E 5 2.5
ISK II 23 13 07 02.2 39.92N 33.04E 8 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=16.5.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=99.0.
ISC II 23 13 47 01.1–1.2 37.4N–.10 42.73E–.03 2–11 24 0-2
ISK II 23 13 46 59.5 37.31N 42.72E 8 2.4 **¶16494814**
CSEM II 23 13 47 00.2–.40 37.31N 42.74E 8 2.5
DDA II 23 13 47 04.0 37.50N 42.59E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.2km s-min=3.9km az=16.0.
ISC II 23 15 44 13.1–.91 39.36N–.02 27.66E–.02 13–7 146 0-3
DDA II 23 15 44 12.1 39.36N 27.68E 7 3.5L **¶16494817**
ISK II 23 15 44 12.8 39.36N 27.65E 7 3.2L
ISCJB II 23 15 44 13.0–.46 39.36N–.02 27.66E–.02 9–3 3.2L
CSEM II 23 15 44 13.0–.09 39.34N 27.65E 5 3.2L
ATH II 23 15 44 14.1 39.36N 27.63E 37–4 3.4L
THE II 23 15 44 15.1 39.34N 27.64E 16–6 3.2L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=171.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=125.0.
ATH Event type ke. Error ellipse: s-maj=4.8km s-min=2.5km az=62.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=7.4km s-min=1.4km az=85.0.
ISC II 23 16 56 39.7–.92 37.89N–.03 27.28E–.03 12–9 28 0-1
ISCJB II 23 16 56 39.9–.57 37.89N–.04 27.28E–.04 11–6 **¶16494820**
CSEM II 23 16 56 39.9–.26 37.89N 27.28E 12 2.8
DDA II 23 16 56 39.7 37.87N 27.28E 7 2.8
ISK II 23 16 56 39.9 37.88N 27.33E 22 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.4km az=43.3.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=53.0.
DDA Event type ke.
ISC II 23 17 32 02.6–1.0 39.95N–.04 41.38E–.03 8–7 30 0-2
ISK II 23 17 32 01.6 40.09N 41.42E 5 2.8 **¶16494821**
DDA II 23 17 32 02.6 39.90N 41.30E 8 2.9
ISCJB II 23 17 32 03.1–.69 39.91N–.04 41.32E–.04 5–5 2.9
CSEM II 23 17 32 03.0–.34 39.93N 41.40E 2 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=24.8.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.5km az=32.0.
ISC II 23 22 52 21.0–1.6 39.4N–.20 42.31E–.06 5–17 8 0-1
DDA II 23 22 52 20.9 39.24N 42.29E 7 2.6 **¶601609926**
ISC Event type ke.
DDA Event type ke.
ISC II 23 23 23 41.6–1.1 40.88N–.04 34.38E–.03 12–12 30 1-2
ISCJB II 23 23 23 41.4–.66 40.89N–.04 34.38E–.04 6–7 **¶16494827**
CSEM II 23 23 23 41.7–.19 40.88N 34.39E 10 2.6
DDA II 23 23 23 41.3 40.84N 34.42E 7 2.7
ISK II 23 23 23 41.3 40.89N 34.36E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.4km az=140.4.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.9km az=136.0.
DDA Event type ke.
ISC II 23 23 27 48.5–.96 39.98N–.04 39.78E–.03 10–10 34 0-2
ISK II 23 23 27 47.7 39.98N 39.79E 5 2.6 **¶16494828**
CSEM II 23 23 27 48.7–.24 39.96N 39.78E 2 2.8
DDA II 23 23 27 48.0 39.96N 39.86E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=143.0.
DDA Event type ke.
DDA II 23 23 47 18.3 39.01N 42.35E 7 2.8
CSEM II 23 23 47 18.3 39.01N 42.35E 7 2.8 **¶601609927**
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA II 24 00 20 25.7 40.67N 33.01E 13 2.9
ISK II 24 00 20 26.3 40.66N 32.98E 8 3.1 **¶16494830**
CSEM II 24 00 20 27.1–.17 40.66N 32.99E 10 2.9
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=174.0.
DDA II 24 00 22 44.7 37.86N 27.27E 11 2.6
CSEM II 24 00 22 44.7–.22 37.88N 27.30E 10 2.6 **¶16494831**
ISK II 24 00 22 44.3 37.91N 27.33E 16 2.6
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=72.0.
ISC II 24 00 28 17.4–.73 39.95N–.02 40.83E–.01 6–7 98 0-4
DDA II 24 00 28 16.7 39.95N 40.82E 5 3.5L **¶16494832**
CSEM II 24 00 28 18.4–.19 39.96N 40.85E 2 3.5L
ISK II 24 00 28 18.5 39.95N 40.81E 10 3.2L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISC II 24 01 54 18.1–3.6 38.95N–.04 42.36E–.05 6–28 12 0-1
ISCJB II 24 01 54 19.4–.65 38.94N–.03 42.34E–.05 8–11 **¶601609928**
DDA II 24 01 54 19.8 39.01N 42.47E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.2km az=175.9.
DDA Event type ke.
DDA II 24 06 13 15.9 38.97N 42.39E 7 2.3
¶601609932

ISC II 24 11 37 57.1–1.1 39.01N–.02 42.28E–.02 6–10 62 0-2
ISK II 24 11 37 56.5 38.98N 42.26E 5 2.7 **¶16494843**
ISCJB II 24 11 37 57.1–.56 38.99N–.02 42.30E–.03 1–5 2.7
CSEM II 24 11 37 57.0–.19 39.00N 42.29E 2 3.2
DDA II 24 11 37 57.1 39.00N 42.32E 7 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=162.7.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.9km az=45.0.
DDA Event type ke.
ISC II 24 14 41 48.4–1.2 40.74N–.02 34.89E–.03 9–11 47 0-2
ISK II 24 14 41 47.0 40.75N 34.88E 5 3.3 **¶16494850**
CSEM II 24 14 41 48.4–.18 40.74N 34.87E 8 2.8
DDA II 24 14 41 48.4 40.75N 34.88E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=97.0.
DDA Event type ke.
ISC II 24 18 51 19.3–1.3 37.76N–.03 42.83E–.03 10–13 41 0-19
ISN II 24 18 51 18.0–1.8 37.39N 42.25E 5–5 3.4L **¶16494853**
ISCJB II 24 18 51 19.7–.67 37.72N–.04 42.90E–.05 5–6 3.4L
CSEM II 24 18 51 19.9–.25 37.69N 42.94E 5 3.2
ISK II 24 18 51 19.1 37.73N 42.84E 5 3.4L
DDA II 24 18 51 21.9 37.85N 42.59E 7 3.2
ISC Event type ke.
ISN Error ellipse: s-maj=10.9km s-min=10.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.5km az=38.3.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.3km az=72.0.
DDA Event type ke.
ISC II 24 19 22 12.3–.82 40.41N–.02 27.37E–.02 12–5 195 0-9
ISCJB II 24 19 22 12.3–.29 40.43N–.02 27.36E–.02 14–2 **¶16494855**
CSEM II 24 19 22 12.5–.09 40.40N 27.36E 10 3.5L
DDA II 24 19 22 12.3 40.40N 27.39E 18 3.5L
ATH II 24 19 22 12.8 40.44N 27.38E 38–11 3.0L
ISK II 24 19 22 12.1 40.41N 27.40E 11 3.5L
IASPE II 24 19 22 12.2–.85 40.42N–.02 27.39E–.02 12–6 3.5L
SOF II 24 19 22 15.4 40.64N 27.19E 11 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=37.5.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=38.0.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=13.4km s-min=1.3km az=74.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
IASPE Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=33.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISC II 24 22 19 46.5–1.0 36.19N–.07 30.85E–.05 10 16 1-6
DDA II 24 22 19 41.7 35.86N 30.84E 8 3.1 **¶16494857**
CSEM II 24 22 19 41.4–.27 36.20N 30.02E 146–2 3.1
ISK II 24 22 19 46.9 36.26N 30.87E 5 2.1L
ISCJB II 24 22 19 47.6–.79 36.14N–.08 30.73E–.06 10 2.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC II 25 00 09 28.2–1.2 37.77N–.04 42.84E–.04 8–11 30 0-3
ISK II 25 00 09 27.9 37.76N 42.84E 8 2.8 **¶16354287**
ISCJB II 25 00 09 28.0–.79 37.74N–.05 42.90E–.06 9–7 2.8
CSEM II 25 00 09 28.1–.28 37.76N 42.87E 10 2.8
DDA II 25 00 09 28.9 37.81N 42.75E 7 2.9
ISN II 25 00 09 28.1–3.6 37.74N 42.85E 111–72 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.3km az=40.5.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.8km az=110.0.
DDA Event type ke.
ISN Error ellipse: s-maj=53.0km s-min=10.8km az=-1.0.
ISC II 25 01 24 39.6–1.1 40.69N–.02 32.77E–.02 2–10 79 1-3
DDA II 25 01 24 39.5 40.72N 32.80E 19 2.8 **¶16494858**
ISK II 25 01 24 39.5 40.72N 32.81E 5 3.5
CSEM II 25 01 24 40.0–.12 40.71N 32.79E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=176.0.
DDA II 25 03 57 23.2 38.76N 42.40E 8 2.5
CSEM II 25 03 57 23.0–.33 38.75N 42.38E 2 2.5 **¶601609971**
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=5.5km az=73.0.
ISC II 25 09 20 10.0–.85 40.37N–.02 27.09E–.01 11–6 346 0-8
ISK II 25 09 20 09.5 40.36N 27.10E 6 3.8L **¶16494862**
ATH II 25 09 20 09.1 40.40N 27.13E 28–2 3.5L
ISCJB II 25 09 20 09.4–.31 40.38N–.01 27.05E–.01 9–2 3.5L
CSEM II 25 09 20 09.8–.05 40.35N 27.07E 5 3.8L
DDA II 25 09 20 09.0 40.32N 27.11E 9 3.6
THE II 25 09 20 10.9 40.39N 27.04E 11–2 3.7L
SOF II 25 09 20 12.2 40.53N 26.83E 2 3.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.2km az=49.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=11.7.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=6.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=0.7km az=60.0.
ISC II 25 09 49 27.4–.90 37.90N–.02 27.27E–.03 12–7 42 0-2
ISCJB II 25 09 49 27.5–.47 37.91N–.02 27.28E–.04 8–5 **¶16494864**
CSEM II 25 09 49 27.6–.18 37.91N 27.27E 10 2.7
DDA II 25 09 49 27.6 37.90N 27.27E 10 2.7
ISK II 25 09 49 27.5 37.92N 27.29E 9 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=162.2.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=89.0.
DDA Event type ke.
ISC II 25 12 05 13.3–1.0 38.39N–.04 30.35E–.02 12–9 30 0-1
ISK II 25 12 05 03.6 38.71N 31.40E 26 2.6L **¶601609980**
DDA II 25 12 05 13.0 38.39N 30.35E 7 2.7
ISCJB II 25 12 05 14.0–.68 38.43N–.05 30.36E–.03 5–7 2.7
CSEM II 25 12 05 13.0 38.39N 30.35E 7 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.6km az=178.6.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 25 12 52 00.9–.87 39.99N–.03 33.41E–.03 10 31 0-2
DDA II 25 12 51 58.8 39.84N 33.25E 7 2.7 **¶16494869**
ISK II 25 12 51 59.2 40.05N 33.42E 5 2.7
ISCJB II 25 12 52 01.4–.54 39.95N–.03 33.48E–.06 10 2.7
CSEM II 25 12 52 01.2–.30 39.96N 33.46E 8 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=9.7.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.8km az=110.0.
ISC II 25 13 39 22.9–1.0 37.98N–.05 31.57E–.03 10 16 1-1
ISCJB II 25 13 39 22.9–.67 37.98N–.06 31.57E–.05 10 **¶16494871**
ISK II 25 13 39 22.5 37.59N 31.80E 5 2.5
CSEM II 25 13 39 23.3–.65 37.97N 31.56E 10 2.9
DDA II 25 13 39 23.4 38.02N 31.54E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.2km az=158.1.
CSEM Event type ke. Error ellipse: s-maj=24.7km s-min=9.8km az=141.0.
DDA Event type ke.
ISC II 25 21 31 33.6–.91 38.77N–.03 43.54E–.04 14–7 30 0-2
ISCJB II 25 21 31 31.7–1.1 38.67N–.04 43.77E–.08 11–6 **¶16494874**
CSEM II 25 21 31 32.2–.33 38.73N 43.65E 15 2.8
ISK II 25 21 31 32.1 38.75N 43.63E 20 2.7
DDA II 25 21 31 34.0 38.73N 43.50E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.8km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.2km az=113.0.
DDA Event type ke.
ISC II 26 02 42 49.3–1.1 38.27N–.03 33.49E–.03 14–10 42 1-2
ISCJB II 26 02 42 49.5–.59 38.26N–.03 33.49E–.03 7–5 **¶16494878**
CSEM II 26 02 42 49.5–.25 38.26N 33.49E 12 2.6
DDA II 26 02 42 49.1 38.25N 33.48E 7 2.6
ISK II 26 02 42 49.1 38.28N 33.52E 22 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.7km az=25.0.
DDA Event type ke.
ISC II 26 03 57 24.1–1.2 38.85N–.02 40.20E–.03 2–12 44 1-2
CSEM II 26 03 57 24.3–.24 38.85N 40.20E 2 2.7 **¶16494882**
DDA II 26 03 57 24.1 38.87N 40.16E 4 2.7
ISK II 26 03 57 24.2 38.83N 40.17E 8 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=59.0.
DDA Event type ke.
ISC II 26 06 38 14.2–1.6 36.95N–.03 29.33E–.03 1–14 26 0-2
ISK II 26 06 38 11.7 36.34N 29.37E 30 2.8 **¶16494884**
DDA II 26 06 38 14.0 36.97N 29.24E 7 2.7
ISCJB II 26 06 38 14.7–.73 36.95N–.04 29.31E–.05 5–8 2.7
CSEM II 26 06 38 14.2–.32 36.96N 29.28E 10 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.7km az=35.8.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.6km az=132.0.
ISC II 26 08 28 32.6–1.2 37.17N–.04 37.16E–.04 4–9 18 0-1
ISK II 26 08 28 31.8 37.10N 37.16E 5 2.6 **¶16494885**
ISCJB II 26 08 28 32.6–1.2 37.07N–.06 37.13E–.07 1–13 2.6
CSEM II 26 08 28 32.6–.47 37.13N 37.15E 10 2.6
DDA II 26 08 28 35.4 37.22N 37.24E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=8.6km az=28.7.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=11.2km az=27.0.
DDA Event type ke.
ISC II 26 13 20 25.7–1.1 38.87N–.04 27.79E–.06 6–6 24 0-1
ISK II 26 13 20 26.4 38.87N 27.87E 5 2.4 **¶16494894**
DDA II 26 13 20 27.1 38.84N 27.87E 7 2.6
CSEM II 26 13 20 27.5–.25 38.87N 27.86E 2 2.4
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=55.0.
ISC II 26 16 24 19.8–1.3 37.88N–.03 42.99E–.03 2–14 40 0-3
ISN II 26 16 24 18.1–1.2 38.04N 42.97E 137–28 2.7L **¶16354290**
DDA II 26 16 24 20.7 38.00N 42.80E 7 2.9
ISK II 26 16 24 20.5 37.86N 43.00E 5 2.8
CSEM II 26 16 24 21.5–.37 37.85N 42.99E 20 2.9
ISC Event type ke.
ISN Error ellipse: s-maj=20.1km s-min=1.7km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=8.1km az=90.0.
ISC II 26 17 29 17.8–.94 39.56N–.02 39.83E–.03 13–7 44 0-2
ISCJB II 26 17 29 17.5–.61 39.58N–.03 39.84E–.05 5–7 **¶16494895**
CSEM II 26 17 29 17.8–.16 39.59N 39.81E 5 2.6
DDA II 26 17 29 17.2 39.56N 39.84E 7 2.6
ISK II 26 17 29 17.3 39.60N 39.77E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=20.3.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=125.0.
DDA Event type ke.
ISC II 27 00 16 41.0–.92 37.90N–.03 27.16E–.03 17–7 37 0-2
DDA II 27 00 16 40.9 37.89N 27.09E 7 2.7 **¶16494899**
ISK II 27 00 16 40.8 37.90N 27.18E 2 2.4
ISCJB II 27 00 16 41.5–.56 37.89N–.03 27.14E–.05 13–4 2.4
CSEM II 27 00 16 41.7–.36 37.89N 27.15E 10 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=162.7.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=4.6km az=86.0.
ISC II 27 12 34 14.6–1.1 37.23N–.04 28.22E–.04 11–9 22 0-1
ISCJB II 27 12 34 14.5–1.2 37.25N–.04 28.24E–.05 6–34 **¶16494909**
DDA II 27 12 34 14.2 37.23N 28.22E 7 2.7
ISK II 27 12 34 14.0 37.26N 28.17E 5 2.5
CSEM II 27 12 34 15.0–.31 37.26N 28.24E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.4km az=36.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.9km az=44.0.
ISC II 27 13 02 15.6–1.2 37.78N–.03 42.79E–.04 6–10 43 0-3
ISN II 27 13 02 12.9–.30 37.62N 42.89E 0 2.7L **¶16354291**
CSEM II 27 13 02 14.4–.24 37.73N 42.90E 2 2.7
DDA II 27 13 02 14.5 37.77N 42.84E 6 2.8
ISK II 27 13 02 14.6 37.74N 42.87E 9 2.7
ISC Event type ke.
ISN Error ellipse: s-maj=3.0km s-min=0.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.3km az=108.0.
DDA Event type ke.
ISC II 27 13 49 41.3–1.2 40.03N–.05 36.06E–.03 7–11 29 1-2
ISK II 27 13 49 40.4 39.99N 36.13E 5 2.8 **¶16494910**
CSEM II 27 13 49 41.6–.36 40.03N 36.09E 8 2.9
DDA II 27 13 49 41.6 39.99N 36.03E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.3km az=12.0.
DDA Event type ke.
ISC II 27 22 13 42.4–.91 38.34N–.02 38.86E–.02 12–7 61 0-3
DDA II 27 22 13 40.9 38.31N 38.81E 12 2.7 **¶16494913**
ISCJB II 27 22 13 42.3–.60 38.33N–.02 38.86E–.03 6–4 2.7
CSEM II 27 22 13 42.4–.20 38.35N 38.87E 10 2.7
ISK II 27 22 13 42.0 38.35N 38.85E 5 3.1
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=19.1.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=114.0.
ISC II 28 00 30 07.5–1.5 37.30N–.04 28.94E–.03 5–12 27 0-1
ISCJB II 28 00 30 07.8–.82 37.25N–.05 28.93E–.04 2–10 **¶16494915**
ISK II 28 00 30 07.6 37.28N 28.93E 13 2.8
CSEM II 28 00 30 07.6–.29 37.24N 28.94E 10 2.8
DDA II 28 00 30 07.7 37.28N 28.94E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.4km az=178.4.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=173.0.
DDA Event type ke.
ISC II 28 03 36 38.1–.92 39.54N–.02 26.01E–.03 13–9 53 0-2
ISCJB II 28 03 36 37.9–.56 39.55N–.02 25.99E–.06 6–5 **¶16494917**
ATH II 28 03 36 37.7 39.51N 26.02E 25–2 2.1L
CSEM II 28 03 36 38.4–.13 39.56N 25.99E 8 2.1L
ISK II 28 03 36 38.0 39.57N 26.00E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=178.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.1km az=225.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=88.0.
ISC II 28 06 52 03.9–1.0 37.38N–.02 36.42E–.02 7–9 112 0-3
DDA II 28 06 52 03.3 37.39N 36.40E 17 3.3 **¶601710602**
ISK II 28 06 52 04.6 37.32N 36.28E 5 3.2L,3.2
CSEM II 28 06 52 04.6–.18 37.34N 36.39E 5 3.2,3.2
NSSC II 28 06 52 05.1–1.7 37.35N 36.42E 0–26 3.2,3.2

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=82.0.
NSSC Error ellipse: s-maj=34.6km s-min=50.1km az=-1.0.

ISC	**II**	**28 07 46 18.9–.95**	**39.24N–.02**	**29.08E–.02**	**11–9**		**48**	**0-2**
ISCJB	II	28 07 46 18.8–.53	39.27N–.02	29.06E–.04	5–6			¶16494919
DDA	II	28 07 46 18.4	39.29N	29.06E	7	2.7		
CSEM	II	28 07 46 19.5–.30	39.24N	29.09E	10	2.7		
ISK	II	28 07 46 23.6	39.48N	29.12E	14	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=17.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.5km az=104.0.

ISC	**II**	**28 08 58 50.2–1.3**	**39.68N–.03**	**32.30E–.03**	**2–11**		**30**	**0-2**
CSEM	II	28 08 58 50.6–.28	39.69N	32.29E	10	2.7		¶16494921
ISK	II	28 08 58 50.0	39.73N	32.29E	10	2.7		
DDA	II	28 08 58 51.2	39.66N	32.35E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.8km az=136.0.
DDA Event type ke.

ISC	**II**	**28 13 34 54.5–1.1**	**37.10N–.02**	**36.25E–.02**	**3–10**		**82**	**0-3**
ISK	II	28 13 34 53.8	37.09N	36.18E	5	2.9		¶16494929
DDA	II	28 13 34 54.5	37.13N	36.27E	13	3.2		
CSEM	II	28 13 34 55.2–.11	37.09N	36.20E	2	2.9		
NSSC	II	28 13 34 56.8–.63	37.05N	36.35E	5–10	2.6L		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=38.0.
NSSC Error ellipse: s-maj=6.6km s-min=10.9km az=-1.0.

ISC	**III**	**01 02 27 59.5–1.1**	**37.88N–.02**	**27.38E–.04**	**6–11**		**44**	**0-2**
DDA	III	01 02 27 59.7	37.86N	27.31E	7			¶16494944
CSEM	III	01 02 27 59.9–.14	37.87N	27.32E	10	2.2		
ISCJB	III	01 02 27 59.9–.55	37.87N–.03	27.32E–.04	9–6	2.2		
ISK	III	01 02 27 59.8	37.88N	27.34E	15	2.7		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=156.6.

ISC	**III**	**01 10 35 19.4–1.0**	**37.32N–.05**	**38.59E–.04**	**9**		**15**	**0-1**
DDA	III	01 10 35 19.1	37.31N	38.60E	7			¶601610054
CSEM	III	01 10 35 19.1	37.31N	38.60E	7	2.6		
ISCJB	III	01 10 35 19.3–.91	37.27N–.06	38.62E–.07	9	2.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**01 13 13 24.1–1.2**	**38.75N–.03**	**39.34E–.05**	**13–10**		**25**	**0-2**
DDA	III	01 13 13 23.8	38.71N	39.33E	12			¶16494950
ISCJB	III	01 13 13 24.5–.80	38.78N–.04	39.34E–.07	8–8			
CSEM	III	01 13 13 24.2–.25	38.74N	39.31E	2	2.7		
ISK	III	01 13 13 24.4	38.83N	39.36E	18	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.4km az=26.4.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=109.0.

ISC	**III**	**01 15 51 23.6–1.1**	**39.35N–.02**	**40.78E–.02**	**7–10**		**60**	**0-2**
ISK	III	01 15 51 22.8	39.34N	40.79E	5	3.0		¶16494953
DDA	III	01 15 51 22.7	39.34N	40.78E	8	3.0		
CSEM	III	01 15 51 23.1–.16	39.32N	40.77E	2	3.1		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=157.0.

ISC	**III**	**01 18 27 27.9–1.2**	**38.51N–.02**	**39.30E–.02**	**5–10**		**96**	**0-5**
NSSC	III	01 18 27 25.8–1.7	38.89N	39.42E	35–64	3.1L		¶16494956
ISK	III	01 18 27 26.8	38.50N	39.24E	2	3.3L		
CSEM	III	01 18 27 27.9–.14	38.48N	39.29E	2	3.2		
ISCJB	III	01 18 27 27.8–.57	38.48N–.02	39.27E–.03	6–5	3.2		
DDA	III	01 18 27 28.2	38.51N	39.25E	7	3.2		

ISC Event type ke.
NSSC Error ellipse: s-maj=41.7km s-min=12.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=97.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=149.5.

ISC	**III**	**01 18 51 37.8–1.0**	**37.48N–.03**	**29.48E–.06**	**12**		**22**	**0-1**
ISK	III	01 18 51 37.9	37.48N	29.40E	4	2.7		¶16494957
CSEM	III	01 18 51 38.3–.22	37.50N	29.41E	5	2.7		
DDA	III	01 18 51 38.0	37.51N	29.41E	7	2.7		
ISCJB	III	01 18 51 38.1–.79	37.47N–.04	29.43E–.09	12	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**01 21 04 58.3–.88**	**37.51N–.03**	**29.44E–.04**	**12**		**31**	**0-1**
ISK	III	01 21 04 57.7	37.52N	29.45E	14	2.7		¶16494962
CSEM	III	01 21 04 58.7–.21	37.50N	29.42E	15	2.8		
ISCJB	III	01 21 04 58.7–.54	37.49N–.03	29.41E–.05	12	2.8		
DDA	III	01 21 04 59.5	37.50N	29.39E	7	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=153.6.

ISC	**III**	**01 21 31 25.0–.83**	**37.55N–.02**	**29.42E–.03**	**12**		**41**	**0-2**
ISCJB	III	01 21 31 25.0–.45	37.54N–.03	29.42E–.04	12			¶16494963
ISK	III	01 21 31 24.6	37.55N	29.41E	13	2.8		
DDA	III	01 21 31 25.5	37.55N	29.41E	7	2.8		
CSEM	III	01 21 31 25.0–.18	37.57N	29.41E	8	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=157.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=72.0.

ISC	**III**	**01 21 36 01.5–1.0**	**37.50N–.02**	**29.43E–.03**	**13–8**		**43**	**0-2**
CSEM	III	01 21 36 01.6–.10	37.51N	29.41E	12	2.9		¶16494964
DDA	III	01 21 36 01.5	37.51N	29.37E	7	2.9		
ISK	III	01 21 36 01.2	37.51N	29.40E	13	2.9		
ISCJB	III	01 21 36 01.4–.48	37.51N–.03	29.41E–.04	8–6	2.9		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**01 23 35 23.7–.98**	**37.51N–.03**	**29.34E–.05**	**12**		**27**	**0-1**
DDA	III	01 23 35 23.9	37.48N	29.37E	7			¶16494966
CSEM	III	01 23 35 24.4–.30	37.50N	29.33E	15	2.7		
ISK	III	01 23 35 24.6	37.49N	29.24E	22	2.8		
ISCJB	III	01 23 35 24.2–.62	37.50N–.03	29.32E–.07	12	2.8		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 00 10 48.3–.91**	**37.53N–.02**	**29.38E–.04**	**12**		**34**	**0-1**
ISK	III	02 00 10 47.5	37.53N	29.38E	11	2.6		¶16494969
ISCJB	III	02 00 10 47.9–.54	37.51N–.03	29.39E–.05	12	2.6		
CSEM	III	02 00 10 48.2–.26	37.53N	29.36E	8	2.6		
DDA	III	02 00 10 49.1	37.62N	29.35E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=170.3.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.4km az=79.0.

ISC	**III**	**02 01 25 27.6–.84**	**37.57N–.02**	**29.42E–.02**	**12**		**48**	**0-3**
ISK	III	02 01 25 26.4	37.55N	29.42E	8	2.9		¶16494971
DDA	III	02 01 25 27.0	37.53N	29.50E	7	2.9		
CSEM	III	02 01 25 27.0–.21	37.55N	29.41E	2	3.0		
ISCJB	III	02 01 25 27.2–.42	37.53N–.03	29.42E–.04	12	3.0		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISK	**III**	**02 01 25 32.4**	**39.51N**	**37.49E**	**11**	**2.7**		
CSEM	III	02 01 25 32.4	39.51N	37.49E	11	2.7		¶16494972

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**02 02 17 49.6–.88**	**37.54N–.02**	**29.37E–.03**	**12**		**38**	**0-1**
ISK	III	02 02 17 48.6	37.53N	29.36E	11	2.7		¶16494976
CSEM	III	02 02 17 49.2–.22	37.55N	29.37E	8	2.7		
DDA	III	02 02 17 49.8	37.56N	29.40E	7	2.7		
ISCJB	III	02 02 17 49.1–.48	37.52N–.03	29.36E–.05	12	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 02 40 48.8–.87**	**37.51N–.03**	**29.40E–.04**	**12**		**31**	**0-1**
CSEM	III	02 02 40 49.3–.15	37.51N	29.41E	15	2.7		¶16494977
ISK	III	02 02 40 49.0	37.51N	29.39E	19	2.7		
DDA	III	02 02 40 49.4	37.52N	29.39E	7	2.7		
ISCJB	III	02 02 40 49.2–.51	37.52N–.03	29.40E–.06	12	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 02 43 41.7–1.2**	**40.17N–.04**	**31.61E–.03**	**13–11**		**29**	**0-1**
ISK	III	02 02 43 40.7	40.25N	31.78E	8	2.6		¶16494978
ISCJB	III	02 02 43 41.9–.86	40.16N–.06	31.68E–.05	7–10	2.6		
DDA	III	02 02 43 41.3	40.18N	31.57E	7	2.6		
CSEM	III	02 02 43 42.0–.31	40.15N	31.63E	10	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=6.0km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=6.2km az=19.0.

ISC	**III**	**02 02 45 53.9–.87**	**37.54N–.02**	**29.42E–.03**	**12**		**32**	**0-1**
CSEM	III	02 02 45 53.8–.24	37.55N	29.41E	8	2.7		¶16494979
ISK	III	02 02 45 53.1	37.55N	29.38E	9	2.7		
ISCJB	III	02 02 45 53.7–.51	37.54N–.03	29.39E–.05	12	2.7		
DDA	III	02 02 45 54.6	37.58N	29.48E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=1.7.

ISC	**III**	**02 03 37 23.7–.88**	**37.50N–.03**	**29.39E–.04**	**12**		**34**	**0-1**
CSEM	III	02 03 37 23.8–.17	37.50N	29.38E	12	2.8		¶16494984
ISK	III	02 03 37 23.5	37.50N	29.36E	19	2.7		
DDA	III	02 03 37 23.8	37.51N	29.38E	7	2.7		
ISCJB	III	02 03 37 23.8–.48	37.49N–.03	29.37E–.06	12	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 04 13 03.9–1.1**	**38.73N–.07**	**40.00E–.08**	**11**		**14**	**1-2**
CSEM	III	02 04 13 03.8	38.70N	39.92E	9	2.6		¶601610068
DDA	III	02 04 13 03.8	38.70N	39.92E	9	2.6		
ISCJB	III	02 04 13 04.0–.90	38.77N–.07	40.0E–.10	11	2.6		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 08 09 16.6–1.1**	**37.55N–.04**	**29.45E–.04**	**14–8**		**31**	**0-1**
ISK	III	02 08 09 15.6	37.54N	29.46E	9	2.7		¶16494991
DDA	III	02 08 09 15.9	37.58N	29.42E	7	2.7		
CSEM	III	02 08 09 16.2–.16	37.54N	29.46E	10	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=51.0.

ISC	**III**	**02 09 11 00.8–1.0**	**37.37N–.03**	**36.33E–.02**	**8–9**		**42**	**0-2**
ISK	III	02 09 10 59.8	37.38N	36.34E	10	2.6		¶16494994
CSEM	III	02 09 11 00.8–.29	37.38N	36.32E	5	2.6		
DDA	III	02 09 11 01.0	37.37N	36.37E	7	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.8km az=13.0.

ISC	**III**	**02 09 20 53.8–1.0**	**38.74N–.02**	**29.29E–.02**	**9–12**		**44**	**0-1**
ISK	III	02 09 20 52.9	38.76N	29.33E	10	2.6		¶16494995
CSEM	III	02 09 20 54.1–.20	38.72N	29.30E	8	2.6		
DDA	III	02 09 20 54.2	38.72N	29.30E	7	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=169.0.

ISC	**III**	**02 13 44 41.3–1.1**	**40.86N–.03**	**38.15E–.02**	**6–10**		**48**	**0-2**
ISK	III	02 13 44 40.7	40.81N	38.18E	11	2.6		¶16495000
DDA	III	02 13 44 40.5	40.86N	38.13E	4	2.6		
CSEM	III	02 13 44 41.5–.28	40.87N	38.16E	2	2.6		

ISC Event type ke.
CSEM Event type ke.

ISC	**III**	**02 14 10 41.1–.93**	**37.19N–.04**	**28.19E–.04**	**18–4**		**24**	**0-1**
DDA	III	02 14 10 37.2	37.34N	28.47E	7			¶16495002
ISK	III	02 14 10 40.6	37.13N	28.19E	22	2.2L		
CSEM	III	02 14 10 41.5–.28	37.19N	28.21E	15	2.2L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=4.8km az=39.0.

ISC	**III**	**02 17 01 04.8–1.1**	**37.58N–.02**	**29.42E–.02**	**9–10**		**56**	**0-2**
ISK	III	02 17 01 04.8	37.57N	29.42E	11	2.8		¶16495006
CSEM	III	02 17 01 05.3–.15	37.54N	29.42E	10	2.8		
DDA	III	02 17 01 05.5	37.53N	29.39E	7	2.8		
ISCJB	III	02 17 01 05.3–.43	37.54N–.02	29.41E–.03	4–6	2.8		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 17 46 02.0–1.1**	**37.54N–.03**	**29.41E–.04**	**18–5**		**34**	**0-1**
ISK	III	02 17 46 01.8	37.52N	29.40E	20	2.7		¶16495007
CSEM	III	02 17 46 02.4–.21	37.54N	29.39E	20	2.7		
ISCJB	III	02 17 46 02.8–.55	37.56N–.03	29.40E–.07	28–6	2.7		
DDA	III	02 17 46 03.2	37.60N	29.39E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.8km az=163.7.

ISC	**III**	**02 18 11 36.0–.88**	**39.34N–.03**	**38.29E–.02**	**11–7**		**42**	**0-2**
CSEM	III	02 18 11 35.6–.17	39.36N	38.28E	2	2.9L		¶16495008
ISK	III	02 18 11 35.1	39.32N	38.31E	5	2.7		
DDA	III	02 18 11 35.9	39.31N	38.26E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.2km az=177.0.

ISC	**III**	**02 18 33 27.2–1.2**	**38.03N–.03**	**32.43E–.05**	**1–11**		**32**	**0-2**
ISK	III	02 18 33 26.8	38.03N	32.42E	5	2.7		¶16495009
CSEM	III	02 18 33 27.2–.18	38.02N	32.38E	8	2.7		
DDA	III	02 18 33 27.0	38.57N	31.49E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=112.0.

ISC	**III**	**02 20 21 18.5–1.2**	**36.22N–.03**	**35.75E–.04**	**14–9**		**32**	**0-2**
CSEM	III	02 20 21 18.6–.39	36.22N	35.71E	12	2.8		¶16495013
DDA	III	02 20 21 18.5	36.41N	35.66E	7	2.8		
ISCJB	III	02 20 21 18.6–.71	36.23N–.03	35.70E–.05	13–4	2.8		
ISK	III	02 20 21 19.4	36.28N	35.73E	15	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=5.6km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.6km az=155.7.

ISC	**III**	**02 21 52 54.8–1.3**	**40.76N–.03**	**32.76E–.02**	**4–11**		**49**	**0-3**
ISK	III	02 21 52 54.8	40.73N	32.73E	7	3.0		¶16495015
CSEM	III	02 21 52 55.6–.19	40.76N	32.78E	10	3.0		
DDA	III	02 21 52 55.2	40.73N	32.81E	7	3.0		
ISCJB	III	02 21 52 55.4–.52	40.75N–.03	32.78E–.03	5–6	3.0		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**III**	**02 22 32 58.7–1.1**	**40.22N–.02**	**38.14E–.02**	**3–10**		**71**	**0-3**
CSEM	III	02 22 32 58.9–.14	40.19N	38.14E	2	2.9		¶16495016
ISK	III	02 22 32 58.6	40.20N	38.15E	5	2.9		
DDA	III	02 22 32 58.5	40.18N	38.15E	7	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=166.0.

ISK	**III**	**02 23 59 57.2**	**37.86N**	**27.34E**	**16**	**2.3**		
CSEM	III	02 23 59 57.2–99	37.86N	27.34E	16	2.3		¶16495018

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

DDA	**III**	**03 00 00 27.7**	**39.16N**	**30.18E**	**7**			
CSEM	III	03 00 00 27.7	39.16N	30.18E	7	2.6		¶601610092

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**III**	**03 00 09 07.9–1.0**	**37.57N–.02**	**29.39E–.04**	**14–9**		**35**	**0-1**
ISK	III	03 00 09 06.3	37.55N	29.43E	11	2.7		¶16495019
CSEM	III	03 00 09 07.0–.26	37.54N	29.38E	10	2.7		

DDA III 03 00 09 08.9 37.62N 29.42E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=71.0.
ISC III 03 03 13 13.9–1.4 37.98N–.03 27.40E–.04 1–13 36 0-1
DDA III 03 03 13 14.8 37.96N 27.49E 7 ¶16495023
CSEM III 03 03 13 15.3–.23 37.98N 27.53E 15 2.6
ISK III 03 03 13 15.4 38.01N 27.53E 8 2.6
ISCJB III 03 03 13 15.3–.47 37.98N–.03 27.51E–.04 9–6 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 03 07 11 00.3–.91 37.55N–.02 29.32E–.03 17–7 45 0-2
ISK III 03 07 10 59.4 37.55N 29.36E 9 2.8 ¶16495026
CSEM III 03 07 11 00.3–.23 37.54N 29.33E 8 2.8
DDA III 03 07 11 00.9 37.53N 29.34E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=79.0.
ISC III 03 07 52 32.8–1.2 37.61N–.03 29.40E–.02 5–11 44 0-1
ISK III 03 07 52 32.9 37.59N 29.45E 9 2.6 ¶16495027
CSEM III 03 07 52 33.3–.22 37.60N 29.42E 10 2.9
DDA III 03 07 52 33.5 37.57N 29.42E 7 2.9
ISCJB III 03 07 52 33.3–.50 37.57N–.03 29.42E–.03 2–6 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 03 08 35 14.7–1.2 37.60N–.02 29.39E–.03 5–11 40 0-1
ISK III 03 08 35 14.6 37.59N 29.40E 9 2.7 ¶16495028
CSEM III 03 08 35 15.1–.23 37.60N 29.39E 5 2.7
DDA III 03 08 35 16.0 37.56N 29.41E 7 2.7
ISCJB III 03 08 35 15.2–.49 37.56N–.03 29.38E–.04 4–7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 03 09 20 53.2 39.66N 29.40E 7
CSEM III 03 09 20 53.2 39.66N 29.40E 7 2.6 ¶601610100
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 03 09 35 47.9–.95 39.12N–.02 29.10E–.02 9–9 142 0-7
CSEM III 03 09 35 47.7–.09 39.12N 29.10E 2 3.3L ¶16495030
ISK III 03 09 35 47.2 39.11N 29.08E 5 3.3L
DDA III 03 09 35 47.4 39.13N 29.07E 12 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=74.0.
ISC III 03 11 55 02.2–.84 37.84N–.02 27.35E–.02 14–6 78 0-2
ISK III 03 11 55 01.9 37.87N 27.37E 12 2.7 ¶16495034
CSEM III 03 11 55 02.5–.13 37.86N 27.36E 10 2.9
THE III 03 11 55 02.9 37.81N 27.33E 9–2 2.5L
DDA III 03 11 55 02.1 37.85N 27.37E 7 2.5L
ISCJB III 03 11 55 02.3–.36 37.85N–.02 27.36E–.03 8–3 2.5L
ISC Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC III 03 13 10 58.3–.90 39.38N–.02 27.85E–.02 13–8 76 0-2
ISK III 03 13 10 57.7 39.38N 27.83E 12 2.7 ¶16495035
CSEM III 03 13 10 58.4–.09 39.38N 27.86E 12 2.7
DDA III 03 13 10 58.6 39.41N 27.88E 7 2.7
ISCJB III 03 13 10 58.1–.39 39.39N–.02 27.85E–.03 7–4 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 03 16 24 43.1–.91 37.88N–.03 27.30E–.03 10–9 36 0-1
DDA III 03 16 24 42.9 37.86N 27.31E 8 ¶16495037
CSEM III 03 16 24 43.2–.17 37.87N 27.30E 10 2.6
ISK III 03 16 24 43.1 37.89N 27.32E 12 2.5
ISCJB III 03 16 24 43.0–.49 37.87N–.03 27.30E–.04 9–7 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 03 20 43 09.6–1.3 37.60N–.06 38.85E–.02 12–10 32 0-2
DDA III 03 20 43 09.9 37.58N 38.83E 7 ¶601610126
ISCJB III 03 20 43 10.8–1.2 37.53N–.05 38.85E–.04 1–7
CSEM III 03 20 43 11.6–1.0 37.57N 38.82E 10 2.6
NSSC III 03 20 43 14.1–1.5 37.49N 38.90E 16–13 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.4km az=14.6.
CSEM Event type ke. Error ellipse: s-maj=24.4km s-min=12.1km az=3.0.
NSSC Error ellipse: s-maj=12.7km s-min=4.8km az=-1.0.
ISC III 03 21 58 15.8–.94 38.91N–.02 27.95E–.02 4–8 58 0-2
CSEM III 03 21 58 15.8–.11 38.91N 27.95E 5 2.7 ¶16495041
ISK III 03 21 58 15.1 38.92N 27.95E 6 2.7
DDA III 03 21 58 15.6 38.93N 27.95E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=133.0.
ISC III 03 23 08 39.0–1.1 40.19N–.02 42.04E–.03 6–9 42 0-1
CSEM III 03 23 08 39.3–.19 40.18N 42.04E 10 2.7 ¶601610132
DDA III 03 23 08 39.2 40.19N 42.02E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=70.0.
ISC III 04 02 46 24.5–1.8 38.56N–.04 43.85E–.07 5–15 28 0-2
ISK III 04 02 46 23.6 38.52N 43.74E 5 2.7 ¶16495047
CSEM III 04 02 46 24.7–.34 38.53N 43.78E 10 2.7
ISCJB III 04 02 46 24.3–1.2 38.50N–.04 43.88E–.10 8–6 2.7
DDA III 04 02 46 25.4 38.62N 43.80E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.7km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=6.9km az=10.1.
ISC III 04 06 04 16.2–.00 37.85N–.02 27.31E–.03 7–9 36 0-1
DDA III 04 06 04 15.4 37.84N 27.33E 7 ¶16495048
CSEM III 04 06 04 16.2–.25 37.86N 27.33E 5 2.6
ISK III 04 06 04 16.3 37.87N 27.35E 12 2.5
ISCJB III 04 06 04 16.0–.48 37.85N–.03 27.32E–.04 10–5 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 04 08 03 15.9–1.0 37.89N–.02 36.61E–.03 8–9 43 0-2
ISK III 04 08 03 14.6 37.89N 36.62E 24 2.5 ¶16495050
CSEM III 04 08 03 16.4–.35 37.90N 36.65E 2 2.5
DDA III 04 08 03 16.4 37.85N 36.57E 10 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=6.7km az=133.0.
ISK III 04 08 53 22.1 37.10N 27.90E 12 2.6
CSEM III 04 08 53 22.1 37.10N 27.90E 12 2.6 ¶16495052
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 04 10 03 43.8–1.0 36.91N–.03 29.34E–.02 10–9 50 0-2
ISK III 04 10 03 43.6 36.95N 29.30E 8 2.7 ¶16495055
CSEM III 04 10 03 44.2–.16 36.94N 29.31E 8 2.7
DDA III 04 10 03 44.4 36.95N 29.31E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=172.0.
ISC III 04 11 22 56.3–1.4 39.28N–.03 40.39E–.03 3–15 18 0-1
CSEM III 04 11 22 55.8 39.29N 40.39E 6 2.6 ¶16495056
ISK III 04 11 22 55.8 39.29N 40.39E 6 2.6
ISCJB III 04 11 22 56.5–.59 39.30N–.04 40.35E–.04 9–7 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 04 12 27 44.7–1.0 38.81N–.03 36.39E–.03 6–9 34 0-2
DDA III 04 12 27 44.4 38.81N 36.44E 5 ¶16495060
CSEM III 04 12 27 45.3–.38 38.80N 36.41E 2 2.7
ISK III 04 12 27 45.2 38.77N 36.43E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=7.5km az=146.0.
ISK III 04 14 19 05.7 38.31N 37.78E 11 2.7
CSEM III 04 14 19 05.7 38.31N 37.78E 11 2.7 ¶16495065
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA III 04 20 49 27.1 37.86N 27.34E 7
¶602442059
ISC III 04 20 59 16.0–.99 39.28N–.02 29.24E–.03 8–11 46 0-2
CSEM III 04 20 59 15.9–.08 39.28N 29.24E 8 2.7 ¶16495067
ISK III 04 20 59 15.3 39.26N 29.25E 6 2.7
DDA III 04 20 59 16.0 39.28N 29.23E 7 2.7
ISCJB III 04 20 59 15.6–.52 39.27N–.03 29.24E–.05 6–6 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 05 00 13 28.1–1.2 39.15N–.04 27.99E–.05 13–14 28 0-1
DDA III 05 00 13 27.9 39.20N 27.95E 7 ¶16495071
CSEM III 05 00 13 28.6–.10 39.15N 28.01E 15 2.6
ISK III 05 00 13 28.4 39.13N 28.05E 15 2.6
ISCJB III 05 00 13 28.6–.65 39.15N–.04 28.03E–.06 13–7 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 05 01 52 45.5–1.0 39.01N–.02 29.89E–.02 13–9 63 0-2
CSEM III 05 01 52 45.7–.13 39.01N 29.90E 8 2.8 ¶16495072
ISK III 05 01 52 45.1 39.02N 29.89E 5 2.8
ISCJB III 05 01 52 45.5–.51 39.01N–.03 29.90E–.03 7–4 2.8
DDA III 05 01 52 45.4 39.02N 29.91E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=144.4.
ISC III 05 04 29 04.8–.99 40.88N–.03 42.87E–.02 10–9 47 0-3
TIF III 05 04 29 04.5 40.84N 42.87E 16–1 ¶16495074
CSEM III 05 04 29 05.5–.23 40.83N 42.89E 2 3.0
ISK III 05 04 29 05.2 40.82N 42.97E 3 3.0
DDA III 05 04 29 05.7 40.73N 42.81E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=173.0.
ISC III 05 05 04 47.4–1.2 37.64N–.03 29.50E–.03 3–11 38 0-1
ISK III 05 05 04 47.3 37.62N 29.48E 13 2.6 ¶16495076
CSEM III 05 05 04 48.2–.28 37.61N 29.45E 8 2.9
DDA III 05 05 04 49.6 37.56N 29.40E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=69.0.
ISC III 05 08 04 25.3–1.0 40.28N–.02 33.95E–.02 10–10 55 0-2
CSEM III 05 08 04 25.8–.14 40.27N 33.97E 2 2.9 ¶16495080
DDA III 05 08 04 25.5 40.25N 34.00E 6 2.9
ISK III 05 08 04 25.2 40.29N 33.97E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=66.0.
ISC III 05 09 21 21.8–1.2 37.25N–.05 28.23E–.04 9–11 24 0-1
ISK III 05 09 21 21.4 37.23N 28.18E 5 2.5 ¶16495081
CSEM III 05 09 21 22.6–.23 37.23N 28.21E 2 2.5
DDA III 05 09 21 22.4 37.24N 28.23E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=42.0.
ISC III 05 16 24 58.0–1.0 40.62N–.04 30.09E–.02 14–9 40 0-2
CSEM III 05 16 24 58.5–.18 40.56N 30.11E 10 2.6 ¶16495089
ISK III 05 16 24 58.1 40.56N 30.09E 9 2.6
DDA III 05 16 24 58.0 40.59N 30.04E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.1km az=154.0.
ISC III 05 17 38 04.8–.99 39.94N–.01 26.91E–.01 7–9 180 0-7
CSEM III 05 17 38 04.7–.08 39.94N 26.91E 5 3.2L ¶16495090
THE III 05 17 38 04.3 39.90N 26.95E 6–3 2.8L
ATH III 05 17 38 05.0 39.93N 26.85E 16–2 2.6L
ISK III 05 17 38 04.0 39.94N 26.91E 5 3.2L
DDA III 05 17 38 04.4 39.92N 26.96E 6 3.2L
ISCJB III 05 17 38 04.1–.36 39.95N–.02 26.90E–.02 2–3 3.2L
SOF III 05 17 38 05.1 39.94N 26.94E 10 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=12.0.
THE Event type ke. Error ellipse: s-maj=6.4km s-min=1.6km az=102.0.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.0km az=273.0. Analyst: SpLiakopoulos
ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=164.5.
ISC III 05 18 17 48.8–1.2 39.11N–.03 37.78E–.02 3–10 41 0-2
ISK III 05 18 17 47.4 39.14N 37.86E 6 2.7 ¶16495091
CSEM III 05 18 17 49.6–.26 39.13N 37.77E 2 2.6
DDA III 05 18 17 49.2 39.15N 37.78E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=2.0.
ISC III 05 20 37 56.7–.89 37.42N–.03 37.04E–.03 13–7 32 0-2
CSEM III 05 20 37 56.7–.35 37.46N 37.06E 10 2.7 ¶16495092
ISK III 05 20 37 56.1 37.42N 37.04E 8 2.7
DDA III 05 20 37 56.5 37.45N 37.09E 4 2.7
ISCJB III 05 20 37 56.6–.79 37.45N–.05 37.08E–.04 4–9 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 05 21 55 07.1–1.1 36.92N–.03 29.38E–.02 5–10 41 0-2
ISK III 05 21 55 06.5 36.93N 29.35E 6 2.6 ¶16495093
CSEM III 05 21 55 07.4–.17 36.92N 29.36E 5 2.6
DDA III 05 21 55 07.8 36.97N 29.30E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=167.0.
ISC III 05 22 57 11.1–1.0 39.14N–.02 28.00E–.02 16–9 60 0-2
ISK III 05 22 57 10.6 39.15N 28.00E 3 2.7 ¶16495094
CSEM III 05 22 57 11.6–.13 39.15N 27.99E 10 2.7
ISCJB III 05 22 57 11.3–.41 39.16N–.02 28.00E–.03 7–5 2.7
DDA III 05 22 57 11.3 39.17N 28.02E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=111.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=20.3.
ISC III 05 23 36 14.5–1.1 37.36N–.03 36.19E–.02 2–11 57 0-2
ISK III 05 23 36 13.8 37.39N 36.23E 2 2.7 ¶16495095
DDA III 05 23 36 14.1 37.35N 36.19E 7 2.7
CSEM III 05 23 36 15.0–.18 37.37N 36.19E 2 2.7
ISC Event type ke.
CSEM Event type ke.
ISC III 05 23 37 25.5–1.1 40.63N–.02 29.02E–.02 4–10 124 0-3
ISK III 05 23 37 24.5 40.62N 29.03E 4 3.0 ¶16495096
CSEM III 05 23 37 25.2–.09 40.63N 29.02E 2 3.0
DDA III 05 23 37 25.0 40.62N 29.02E 5 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=23.0.
ISC III 06 05 16 06.6–.87 40.15N–.02 27.42E–.02 14–7 110 0-2
ISK III 06 05 16 05.8 40.14N 27.39E 18 2.8L ¶16495099
CSEM III 06 05 16 06.5–.10 40.14N 27.41E 15 2.9
DDA III 06 05 16 06.9 40.16N 27.43E 8 2.9
ISCJB III 06 05 16 06.2–.41 40.14N–.02 27.41E–.02 6–3 2.9
THE III 06 05 16 07.7 40.16N 27.45E 19–3 2.7L
SOF III 06 05 16 09.7 40.16N 27.45E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=9.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=6.6.
THE Event type ke. Error ellipse: s-maj=4.5km s-min=1.7km az=105.0.
DDA III 06 05 16 08.7 37.85N 27.44E 7
CSEM III 06 05 16 08.7 37.85N 27.44E 7 2.9 ¶601610213
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 06 06 51 53.0–.83 37.51N–.03 38.75E–.02 15–5 62 0-3
ISK III 06 06 51 52.2 37.55N 38.67E 5 2.9 ¶16495101

CSEM III 06 06 51 53.3–.17 37.50N 38.77E 15 2.9
ISCJB III 06 06 51 53.4–.42 37.46N–.03 38.75E–.03 16–4 2.9
DDA III 06 06 51 53.6 37.52N 38.68E 7 2.9
NSSC III 06 06 51 55.0–1.1 37.54N 38.82E 35–15 2.1L,1.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=171.0.
NSSC Error ellipse: s-maj=9.3km s-min=3.0km az=-1.0.
ISC III 06 07 52 10.6–.94 39.33N–.02 27.63E–.02 13–10 76 0-2
ISK III 06 07 52 09.8 39.32N 27.59E 12 2.8 ¶16495102
ISCJB III 06 07 52 10.3–.39 39.32N–.02 27.64E–.03 6–4 2.8
DDA III 06 07 52 10.6 39.34N 27.67E 7 2.8
CSEM III 06 07 52 10.6–.12 39.33N 27.63E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=24.6.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=117.0.
ISC III 06 07 58 40.0–.69 39.22N–.01 40.37E–.01 10–4 4.2b,3.5s 480 0-98
ISN III 06 07 58 21.1–3.6 39.85N 39.69E 0 4.3L,3.5s ¶16245363
NSSC III 06 07 58 33.1–2.1 39.55N 40.92E 0–55 3.9L,3.5s
BJI III 06 07 58 37.7 39.20N 40.40E 10 4.9b,4.5b
DDA III 06 07 58 38.6 39.23N 40.37E 12 4.9b,4.5b
MOS III 06 07 58 38.6–1.3 39.22N 40.44E 10 4.3b,4.5b
ISK III 06 07 58 38.1 39.24N 40.41E 5 4.2L,4.5b
IDC III 06 07 58 38.4–.47 39.27N 40.35E 0 4.0,4.0b
ISCJB III 06 07 58 39.2–.36 39.25N–.01 40.43E–.01 8–2 4.0b,3.4s
CSEM III 06 07 58 39.8–.08 39.24N 40.44E 2 4.3b,3.4s
NEIC III 06 07 58 40.2–.30 39.24N 40.41E 10 4.3L,4.3b
AZER III 06 07 58 40.2–.88 39.22N 40.39E 10 4.3L,4.3b
ISC Event type ke.
ISN Error ellipse: s-maj=44.8km s-min=47.5km az=-1.0.
NSSC Error ellipse: s-maj=75.6km s-min=52.5km az=-1.0.
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=101.6.
IDC Error ellipse: s-maj=10.3km s-min=6.8km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=163.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=164.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.6km az=173.0.
AZER Error ellipse: s-maj=14.5km s-min=6.3km az=154.0.
ISC III 06 12 21 00.9–1.1 39.70N–.04 34.74E–.03 6–10 23 0-1
CSEM III 06 12 21 00.5–.13 39.70N 34.74E 7–1 2.8 ¶16495104
ISK III 06 12 21 00.4 39.73N 34.77E 14 2.7
DDA III 06 12 21 01.0 39.74N 34.69E 7 2.7
ISCJB III 06 12 21 00.7–.72 39.71N–.05 34.72E–.04 1–8 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 06 13 45 00.5–.90 38.93N–.02 27.92E–.01 5–7 207 0-4
ISK III 06 13 44 59.9 38.92N 27.95E 3 3.4L ¶16495106
CSEM III 06 13 45 00.7–.09 38.92N 27.93E 5 3.2
ISCJB III 06 13 45 00.4–.34 38.94N–.02 27.93E–.02 4–3 3.2
DDA III 06 13 45 00.0 38.95N 27.93E 5 3.2
ATH III 06 13 45 01.2 38.97N 27.86E 27–4 2.9L
THE III 06 13 45 02.0 38.90N 28.05E 26–10 3.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=147.8.
ATH Event type ke. Error ellipse: s-maj=5.0km s-min=1.5km az=75.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=10.7km s-min=0.8km az=88.0.
ISC III 06 14 53 18.7–.94 38.94N–.01 27.94E–.01 7–7 232 0-7
CSEM III 06 14 53 18.9–.09 38.93N 27.95E 5 3.1 ¶16495107
THE III 06 14 53 18.5 38.94N 28.02E 3–6 3.6L
ATH III 06 14 53 18.6 38.97N 27.93E 27–5 3.1L
DDA III 06 14 53 18.6 38.92N 27.95E 15 3.1L
ISCJB III 06 14 53 18.3–.39 38.94N–.01 27.95E–.02 3–3 3.1L
ISK III 06 14 53 18.4 38.93N 27.94E 7 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=138.0.
THE Event type ke. Error ellipse: s-maj=7.0km s-min=1.5km az=69.0.
ATH Event type ke. Error ellipse: s-maj=6.6km s-min=1.5km az=86.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=148.5.
ISC III 06 15 35 28.8–.00 40.83N–.04 31.70E–.03 9–10 28 0-2
CSEM III 06 15 35 28.7–.15 40.82N 31.72E 8 2.7 ¶16495109
ISK III 06 15 35 28.1 40.93N 31.68E 5 2.7
DDA III 06 15 35 28.2 40.84N 31.70E 7 2.7
ISCJB III 06 15 35 28.4–.60 40.85N–.05 31.71E–.04 6–7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 06 16 57 57.8–.98 36.55N–.05 29.14E–.03 30–6 39 0-2
DDA III 06 16 57 56.6 36.61N 29.09E 6 ¶16495112
CSEM III 06 16 57 57.9–.39 36.52N 29.13E 26–3 2.7
ISK III 06 16 57 57.1 36.53N 29.09E 29 2.7
ISCJB III 06 16 57 58.2–.64 36.54N–.06 29.12E–.05 28–4 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 06 18 22 27.3–.98 37.49N–.02 27.49E–.02 9–9 43 0-2
ISK III 06 18 22 26.8 37.48N 27.49E 7 2.8 ¶16495113
CSEM III 06 18 22 27.4–.14 37.48N 27.47E 8 2.7
DDA III 06 18 22 29.1 37.64N 27.51E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=71.0.
ISC III 06 21 26 49.9–.96 37.44N–.02 27.46E–.02 9–8 108 0-3
THE III 06 21 26 49.7 37.47N 27.47E 3–5 3.3L ¶16495115
ISK III 06 21 26 49.8 37.47N 27.51E 5 3.4
ISCJB III 06 21 26 50.0–.41 37.48N–.02 27.49E–.03 3–4 3.4
CSEM III 06 21 26 50.2–.14 37.47N 27.50E 2 3.2
DDA III 06 21 26 50.0 37.52N 27.51E 7 3.2
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=5.0km s-min=1.0km az=255.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=88.0.
ISC III 06 22 21 21.0–.97 39.84N–.03 33.18E–.03 17–7 35 0-2
ISK III 06 22 21 20.0 39.86N 33.21E 11 2.7 ¶16495116
CSEM III 06 22 21 21.4–.23 39.82N 33.21E 2 2.7
ISCJB III 06 22 21 21.3–.54 39.83N–.03 33.18E–.07 7–10 2.7
DDA III 06 22 21 21.5 39.82N 33.24E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.7km az=2.9.
ISC III 06 23 12 27.7–.99 38.65N–.02 36.12E–.02 7–9 100 0-3
DDA III 06 23 12 26.3 38.65N 36.11E 5 ¶16495117
ISK III 06 23 12 27.0 38.64N 36.15E 3 3.2
CSEM III 06 23 12 28.1–.16 38.64N 36.13E 2 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=100.0.
ISC III 07 00 49 00.1–1.0 37.87N–.02 43.23E–.02 9–9 71 0-4
AZER III 07 00 48 41.9–5.5 36.10N 43.38E 5 ¶16495119
NSSC III 07 00 48 56.0–.80 39.07N 41.12E 172–16 2.8L
ISK III 07 00 48 58.5 37.87N 43.27E 4 3.0
CSEM III 07 00 48 59.5–.23 37.86N 43.27E 2 2.9
ISCJB III 07 00 48 59.4–.61 37.86N–.03 43.28E–.04 0–5 2.9
DDA III 07 00 49 00.2 37.88N 43.20E 4 2.9
ISC Event type ke.
AZER Error ellipse: s-maj=34.6km s-min=29.5km az=47.0.
NSSC Error ellipse: s-maj=11.6km s-min=20.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=34.2.
ISC III 07 01 06 58.1–.95 38.91N–.07 38.04E–.04 9 22 1-2
ISK III 07 01 06 57.0 38.92N 38.03E 5 2.6 ¶16495120
ISCJB III 07 01 06 58.1–.81 38.90N–.07 38.03E–.05 9 2.6
DDA III 07 01 06 58.9 38.86N 38.07E 7 2.6
CSEM III 07 01 06 58.2–.26 38.88N 38.04E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=4.1km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=4.0km az=161.0.
ISC III 07 02 52 03.7–1.3 40.76N–.04 35.04E–.05 2–13 24 1-1
ISK III 07 02 52 03.1 40.78N 35.06E 6 2.5 ¶16495121
CSEM III 07 02 52 04.0–.53 40.82N 34.92E 8 2.7
DDA III 07 02 52 07.0 40.65N 35.26E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.8km s-min=5.6km az=118.0.
ISC III 07 04 35 39.0–1.1 37.54N–.05 38.51E–.03 5–11 23 0-1
ISK III 07 04 35 37.0 37.54N 38.53E 5 2.6 ¶16495122
CSEM III 07 04 35 38.1–.38 37.42N 38.48E 8 2.6
DDA III 07 04 35 40.9 37.54N 38.47E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=6.8km az=169.0.
ISC III 07 07 00 15.2–1.2 37.80N–.03 43.21E–.03 6–10 79 1-31
AZER III 07 07 00 06.1–7.2 36.41N 43.51E 2 ¶16484537
ISK III 07 07 00 14.9 37.88N 43.30E 2 2.8
IDC III 07 07 00 15.8–1.8 37.66N 43.15E 0 3.2,3.2
DDA III 07 07 00 15.3 37.83N 43.23E 5 3.2,3.2
CSEM III 07 07 00 18.2–.49 37.98N 43.10E 2 3.8L,3.2
ISN III 07 07 00 19.2–1.9 37.56N 42.87E 0–6 3.3L,3.2
NSSC III 07 07 00 19.6–1.9 38.13N 43.36E 38–843 3.5L,3.2
ISC Event type ke.
AZER Error ellipse: s-maj=85.6km s-min=29.5km az=84.0.
IDC Error ellipse: s-maj=31.4km s-min=18.2km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=17.6km s-min=5.9km az=131.0.
ISN Error ellipse: s-maj=9.8km s-min=12.5km az=-1.0.
NSSC Error ellipse: s-maj=293.4km s-min=509.2km az=-1.0.
ISC III 07 08 56 48.9–1.2 37.17N–.03 37.24E–.03 1–9 34 0-1
ISK III 07 08 56 48.2 37.14N 37.25E 2 2.6 ¶16495123
CSEM III 07 08 56 49.2–.27 37.13N 37.19E 5 2.8
DDA III 07 08 56 49.4 37.12N 37.18E 7 2.8
ISCJB III 07 08 56 49.7–.58 37.14N–.04 37.20E–.03 6–5 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 07 10 51 29.2–.98 37.64N–.03 38.14E–.03 18–6 34 0-2
CSEM III 07 10 51 28.5–.24 37.68N 38.13E 10 2.8 ¶16495129
ISK III 07 10 51 28.0 37.69N 38.12E 17 2.7
DDA III 07 10 51 28.3 37.67N 38.09E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=5.4km az=36.0.
ISC III 07 11 13 39.8–1.0 39.81N–.02 26.84E–.02 19–2 100 0-2
ISK III 07 11 13 39.5 39.83N 26.84E 3 2.8L ¶16495130
DDA III 07 11 13 39.7 39.80N 26.90E 7 2.8L
CSEM III 07 11 13 40.2–.08 39.81N 26.83E 2 2.8L
ATH III 07 11 13 40.5 39.77N 26.77E 27–3 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=170.0.
ATH Event type ke. Error ellipse: s-maj=4.7km s-min=1.3km az=213.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 07 11 17 48.9–1.0 39.88N–.02 33.06E–.02 7–9 50 0-2
CSEM III 07 11 17 48.7–.18 39.90N 33.07E 10 2.6 ¶16495131
ISK III 07 11 17 48.0 39.89N 33.07E 11 2.6
ISCJB III 07 11 17 48.9–.51 39.88N–.03 33.08E–.04 9–5 2.6
DDA III 07 11 17 49.3 39.87N 33.10E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=175.5.
ISC III 07 21 49 04.0–.90 37.89N–.03 27.43E–.03 15–7 36 0-1
ISK III 07 21 49 03.8 37.91N 27.44E 6 2.6 ¶16495136
ISCJB III 07 21 49 04.3–.50 37.90N–.03 27.45E–.04 8–7 2.6
DDA III 07 21 49 04.4 37.89N 27.45E 7 2.6
CSEM III 07 21 49 04.2–.19 37.91N 27.44E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=83.0.
ISC III 07 23 04 44.1–1.1 36.94N–.02 29.35E–.02 2–10 79 0-3
ATH III 07 23 04 43.2 37.01N 29.37E 20–2 2.5L ¶16495137
ISK III 07 23 04 43.7 36.92N 29.33E 8 3.0
ISCJB III 07 23 04 44.0–.46 36.91N–.02 29.34E–.03 2–5 3.0
DDA III 07 23 04 44.2 36.93N 29.32E 8 3.0
CSEM III 07 23 04 44.3–.13 36.92N 29.35E 5 3.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.7km az=167.0. Analyst: K.L. ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=142.6.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=160.0.
ISC III 08 01 58 07.8–1.2 39.19N–.03 29.44E–.03 1–11 50 0-2
ISK III 08 01 58 07.6 39.19N 29.45E 7 2.9 ¶16495140
ISCJB III 08 01 58 07.4–.62 39.18N–.03 29.45E–.05 0–6 2.9
CSEM III 08 01 58 08.0–.12 39.19N 29.46E 5 2.9
DDA III 08 01 58 09.3 39.11N 29.37E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=107.0.
ISC III 08 07 21 42.6–1.1 38.61N–.06 39.42E–.04 9 18 0-1
ISCJB III 08 07 21 44.0–1.1 38.64N–.05 39.34E–.07 9 ¶601582314
CSEM III 08 07 21 44.1–.80 38.56N 39.29E 10 2.6
DDA III 08 07 21 46.2 38.67N 39.16E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=7.1km az=146.8.
CSEM Event type ke. Error ellipse: s-maj=17.0km s-min=12.8km az=175.0.
ISC III 08 09 12 25.7–.85 38.95N–.02 27.65E–.02 15–6 60 0-2
CSEM III 08 09 12 25.9–.13 38.94N 27.65E 8 2.6 ¶16495143
ISK III 08 09 12 25.6 38.96N 27.64E 7 2.6L,2.6
DDA III 08 09 12 25.4 38.96N 27.64E 14 2.6L,2.6
ISCJB III 08 09 12 25.8–.51 38.94N–.03 27.63E–.03 7–4 2.6L,2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 08 10 17 53.6–1.1 37.84N–.05 41.58E–.03 10–10 24 0-2
DDA III 08 10 17 39.4 38.02N 42.59E 7 ¶16495145
CSEM III 08 10 17 52.5 37.81N 41.55E 9 2.8
ISK III 08 10 17 52.5 37.81N 41.55E 9 2.8
ISCJB III 08 10 17 53.2–.66 37.81N–.05 41.58E–.05 9–6 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 08 10 57 03.1–.89 38.95N–.02 27.63E–.02 12–7 60 0-2
ISK III 08 10 57 02.9 38.96N 27.62E 7 2.7,2.6L ¶16495146
DDA III 08 10 57 02.9 38.95N 27.64E 13 2.7,2.6L
CSEM III 08 10 57 03.3–.12 38.95N 27.63E 8 2.8,2.6L
ISCJB III 08 10 57 03.1–.47 38.96N–.02 27.64E–.03 7–4 2.8,2.6L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 08 12 07 13.2–1.0 40.27N–.02 29.12E–.02 4–8 44 0-2
ISK III 08 12 07 12.2 40.26N 29.10E 11 2.3 ¶16495148
DDA III 08 12 07 12.6 40.28N 29.14E 5 2.3
CSEM III 08 12 07 13.2–.19 40.28N 29.12E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=68.0.
ISC III 08 12 31 40.1–.98 38.42N–.03 37.68E–.03 8–8 35 0-2
CSEM III 08 12 31 39.5–.16 38.40N 37.70E 5 2.7 ¶16495149
ISK III 08 12 31 39.5 38.43N 37.70E 9 2.7
DDA III 08 12 31 39.7 38.41N 37.74E 7 2.7

ISCJB III 08 12 31 40.1–.62 38.44N–.03 37.69E–.05 9–5 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 08 12 52 07.0–.85 38.39N–.02 37.64E–.03 7 36 0-2
CSEM III 08 12 52 06.6–.21 38.39N 37.66E 2 2.7 ¶16495150
ISK III 08 12 52 06.8 38.40N 37.68E 7 2.7
DDA III 08 12 52 06.1 38.35N 37.61E 7 2.7
ISCJB III 08 12 52 07.2–.45 38.38N–.03 37.63E–.04 7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 08 12 58 57.0–1.2 37.81N–.04 38.14E–.03 10–11 26 1-2
ISK III 08 12 58 56.6 37.82N 38.14E 8 2.7 ¶16495151
ISCJB III 08 12 58 56.8–.81 37.82N–.05 38.14E–.04 5–8 2.7
CSEM III 08 12 58 57.6–.37 37.77N 38.15E 10 2.7
DDA III 08 12 58 58.7 37.68N 38.09E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.2km az=1.2.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=7.4km az=28.0.
ISC III 08 14 03 53.5–.98 39.08N–.03 38.53E–.03 15–8 34 0-1
ISK III 08 14 03 53.8 39.09N 38.50E 7 2.9 ¶16495152
CSEM III 08 14 03 54.1–.23 39.08N 38.52E 5 2.7
DDA III 08 14 03 54.4 39.09N 38.52E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=124.0.
ISC III 08 14 45 51.8–1.2 40.11N–.03 41.04E–.03 4–11 40 0-2
ISK III 08 14 45 51.9 40.22N 41.10E 9 2.5 ¶16495153
DDA III 08 14 45 51.9 40.10N 40.99E 7 2.5
CSEM III 08 14 45 52.7–.26 40.09N 41.02E 10 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.7km az=52.0.
ISC III 08 16 48 22.1–1.3 39.68N–.03 34.77E–.04 0–15 31 0-2
CSEM III 08 16 48 22.4–.17 39.70N 34.75E 2 2.7 ¶16495155
ISK III 08 16 48 22.8 39.73N 34.71E 9 2.8
DDA III 08 16 48 22.0 39.71N 34.73E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=110.0.
ISC III 08 18 38 03.0–.98 39.81N–.02 28.78E–.02 8–8 70 0-2
DDA III 08 18 38 02.8 39.83N 28.76E 7 ¶16495157
CSEM III 08 18 38 03.4–.10 39.80N 28.77E 8 2.8L
ISK III 08 18 38 03.0 39.80N 28.76E 12 2.8L
ISCJB III 08 18 38 03.1–.37 39.83N–.02 28.78E–.03 5–4 2.8L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 09 04 22 47.4–.99 38.84N–.03 40.77E–.03 13–7 35 0-2
DDA III 09 04 22 46.7 38.76N 40.56E 7 ¶16495165
CSEM III 09 04 22 47.3–.12 38.86N 40.76E 15 2.7
ISK III 09 04 22 47.2 38.85N 40.81E 17 2.8
ISCJB III 09 04 22 47.7–.48 38.83N–.03 40.76E–.05 14–4 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 09 07 04 04.4–.81 40.46N–.02 28.04E–.01 12–5 3.6b 249 0-73
IDC III 09 07 04 02.1–1.1 40.28N 27.94E 0 3.7,3.6 ¶16484677
ISK III 09 07 04 03.9 40.43N 28.06E 9 4.0L,3.6
ISCJB III 09 07 04 03.7–.31 40.48N–.01 28.05E–.02 8–2 3.6b,3.6
DDA III 09 07 04 04.0 40.40N 28.04E 20 3.6b,3.6
CSEM III 09 07 04 04.1–.07 40.44N 28.05E 5 4.0L,3.6
THE III 09 07 04 04.4 40.51N 28.01E 0–0 4.2L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=11.9km az=37.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=175.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=16.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=48.0.
ISC III 09 07 06 13.8–.90 40.45N–.02 28.06E–.01 9–7 139 0-3
ISK III 09 07 06 12.9 40.45N 28.06E 3 3.7L ¶16495166
DDA III 09 07 06 13.1 40.41N 28.07E 27 3.7L
ISCJB III 09 07 06 13.2–.34 40.45N–.02 28.07E–.02 1–3 3.7L
CSEM III 09 07 06 13.7–.09 40.46N 28.06E 5 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=171.8.
CSEM Event type ke.
ISC III 09 12 47 02.9–1.1 39.29N–.05 40.31E–.02 11–11 33 0-2
DDA III 09 12 47 03.0 39.24N 40.30E 7 ¶16495170
CSEM III 09 12 47 03.2–.18 39.25N 40.32E 10 2.8
ISK III 09 12 47 03.1 39.29N 40.35E 5 2.6
ISCJB III 09 12 47 03.5–.46 39.25N–.03 40.29E–.03 8–9 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 09 13 02 00.5–1.9 41.1N–.10 38.85E–.03 8–16 23 0-2
DDA III 09 13 02 01.0 41.06N 38.87E 7 ¶601582331
ISCJB III 09 13 02 00.5–1.2 41.2N–.10 38.86E–.04 10–7
CSEM III 09 13 02 01.1–.26 41.13N 38.86E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=4.8km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=2.1km az=176.0.
ISC III 09 16 55 06.7–.98 37.18N–.04 28.08E–.03 11–10 28 0-1
ISK III 09 16 55 01.2 36.68N 28.29E 11 2.8 ¶16495175
DDA III 09 16 55 06.7 37.26N 28.11E 7 2.8
ISCJB III 09 16 55 06.8–.63 37.23N–.05 28.14E–.04 4–9 2.8
CSEM III 09 16 55 07.0–.50 37.22N 28.15E 0–8 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.1km az=22.6.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=7.3km az=29.0.
ISC III 09 19 20 41.0–1.0 39.03N–.03 42.29E–.03 25–9 39 0-2
CSEM III 09 19 20 39.9–.48 39.16N 42.44E 22–4 3.2 ¶16495176
DDA III 09 19 20 39.5 39.01N 42.29E 8 3.2
ISK III 09 19 20 41.2 39.19N 42.25E 19 3.0
ISCJB III 09 19 20 41.3–.58 39.06N–.04 42.32E–.04 24–6 3.0
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 09 21 49 40.6–1.2 39.00N–.02 42.30E–.02 21–3 73 0-2
ISK III 09 21 49 38.4 39.01N 42.29E 5 3.5 ¶16495177
CSEM III 09 21 49 39.6–.20 38.98N 42.29E 2 3.3
DDA III 09 21 49 39.3 38.95N 42.28E 21 3.3
NSSP III 09 21 49 42.3 38.98N 42.32E 5 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=4.0.
ISC III 09 22 05 14.3–1.1 36.76N–.03 31.01E–.02 111–7 253 0-9
ISCJB III 09 22 05 13.6–.26 36.74N–.02 30.97E–.02 116–4 ¶16298782
ISK III 09 22 05 14.9 36.80N 30.94E 105 3.5L
CSEM III 09 22 05 14.8–.15 36.76N 30.95E 110–2 3.5L
THE III 09 22 05 14.6 36.74N 31.06E 1–1 3.5L
DDA III 09 22 05 14.6 36.91N 30.92E 29 3.5L
HLW III 09 22 05 17.2 36.63N 30.84E 33–15 3.6,3.2L
NIC III 09 22 05 18.7–.10 36.67N 31.15E 21 3.6L,3.2L
GII III 09 22 05 18.7–.18 36.36N 31.19E 10 3.0,3.2L
NSSC III 09 22 05 22.6–1.2 36.26N 32.17E 212–71 3.1L,1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=34.1.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=33.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=29.0.
GII Event type ke.
NSSC Error ellipse: s-maj=6.0km s-min=46.3km az=-1.0.
ISC III 10 03 35 10.0–.98 40.99N–.02 34.41E–.02 14–10 73 0-3
ISK III 10 03 35 09.4 41.03N 34.42E 2 3.3 ¶16495179
DDA III 10 03 35 09.8 40.98N 34.43E 7 3.3
CSEM III 10 03 35 10.4–.14 41.02N 34.42E 2 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=166.0.
ISK III 10 03 52 07.5 37.85N 42.97E 5 3.2
ISN III 10 03 52 04.4–.30 37.69N 42.99E 0 3.1L ¶16495180
CSEM III 10 03 52 07.5 37.85N 42.97E 5 3.2
ISN Error ellipse: s-maj=3.0km s-min=0.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 10 05 28 52.8–1.0 39.38N–.02 40.86E–.02 7–10 109 0-4
ISK III 10 05 28 52.4 39.40N 40.90E 5 3.5L ¶16495181
DDA III 10 05 28 52.6 39.38N 40.87E 11 3.5L
CSEM III 10 05 28 53.7–.13 39.39N 40.88E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=128.0.
DDA III 10 07 42 46.1 40.28N 27.04E 6 ¶602442191
ISC III 10 08 47 07.4–1.3 37.67N–.04 41.65E–.03 6–11 30 0-2
ISN III 10 08 46 50.1–4.5 38.27N 41.66E 0 3.0L ¶16495184
ISK III 10 08 47 06.1 37.68N 41.64E 2 2.4L
DDA III 10 08 47 06.5 37.61N 41.69E 7 2.4L
CSEM III 10 08 47 07.3–.20 37.68N 41.64E 5 2.4L
ISCJB III 10 08 47 07.1–.63 37.64N–.04 41.66E–.03 7–6 2.4L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 10 10 50 08.3–1.2 41.47N–.04 35.86E–.02 4–10 56 0-2
ISK III 10 10 50 08.5 41.45N 35.89E 8 3.0 ¶16495186
DDA III 10 10 50 09.5 41.36N 35.88E 21 3.0
ISCJB III 10 10 50 09.6–.60 41.41N–.04 35.84E–.03 3–5 3.0
CSEM III 10 10 50 09.6–.21 41.40N 35.84E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=18.3.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.2km az=24.0.
ISC III 10 13 21 53.0–1.3 40.71N–.03 35.70E–.03 10–12 34 0-2
CSEM III 10 13 21 53.3–.26 40.70N 35.72E 10 2.7 ¶16495188
ISK III 10 13 21 53.2 40.70N 35.73E 12 2.6
DDA III 10 13 21 53.2 40.68N 35.73E 7 2.6
ISCJB III 10 13 21 53.2–.61 40.68N–.03 35.72E–.04 8–7 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 10 16 02 24.2–1.1 37.26N–.05 28.36E–.05 24–7 24 0-1
ISK III 10 16 02 23.9 37.17N 28.34E 26 2.5 ¶16495192
ISCJB III 10 16 02 25.0–.81 37.25N–.06 28.31E–.07 26–8 2.5
CSEM III 10 16 02 24.8–.45 37.24N 28.32E 28–6 2.5
DDA III 10 16 02 26.4 37.25N 28.21E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.3km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=17.7km s-min=8.9km az=41.0.
ISC III 10 17 42 54.8–1.6 39.01N–.03 42.30E–.05 0–13 30 0-2
CSEM III 10 17 42 55.0–.40 39.00N 42.34E 5 2.8 ¶16495193
DDA III 10 17 42 55.4 39.00N 42.29E 7 2.8
ISK III 10 17 42 55.2 38.95N 42.24E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=5.2km az=93.0.
ISC III 10 20 50 01.6–1.1 40.13N–.04 31.68E–.04 8 20 0-2
CSEM III 10 20 50 00.7–.26 40.15N 31.74E 2 2.6 ¶16495195
DDA III 10 20 50 00.8 40.02N 31.47E 29 2.6
ISCJB III 10 20 50 01.0–.84 40.17N–.05 31.71E–.07 8 2.6
ISK III 10 20 50 00.7 40.26N 31.77E 11 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.5km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.8km az=141.1.
ISC III 10 21 08 06.2–.92 37.77N–.05 31.84E–.03 9 24 0-2
DDA III 10 21 08 06.0 37.71N 31.82E 7 ¶16495196
CSEM III 10 21 08 06.5–.38 37.81N 31.86E 5 2.7
ISCJB III 10 21 08 06.7–.61 37.77N–.05 31.88E–.04 9 2.7
ISK III 10 21 08 06.4 37.80N 31.90E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=7.5km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=178.1.
ISC III 10 21 31 20.3–1.1 37.88N–.02 27.43E–.02 2–11 51 0-2
CSEM III 10 21 31 20.8–.16 37.90N 27.45E 2 2.8 ¶16495197
DDA III 10 21 31 20.2 37.87N 27.41E 7 2.8
ISK III 10 21 31 20.4 37.92N 27.47E 4 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=87.0.
ISC III 10 22 36 13.9–1.2 39.61N–.03 27.19E–.02 13–12 42 0-2
ISK III 10 22 36 13.3 39.58N 27.18E 8 2.6 ¶16495199
DDA III 10 22 36 13.8 39.65N 27.16E 7 2.6
CSEM III 10 22 36 14.2–.16 39.62N 27.18E 15 2.6
ISCJB III 10 22 36 14.0–.55 39.63N–.04 27.17E–.03 10–5 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 10 23 35 03.0–1.1 39.64N–.02 38.73E–.02 10–8 46 0-1
ISK III 10 23 35 02.2 39.67N 38.72E 6 2.6 ¶16495200
ISCJB III 10 23 35 03.4–.48 39.67N–.03 38.76E–.04 6–6 2.6
DDA III 10 23 35 03.2 39.66N 38.74E 7 2.6
CSEM III 10 23 35 03.2–.23 39.65N 38.73E 12 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.9km az=59.0.
ISC III 11 02 49 03.8–1.7 41.36N–.07 39.32E–.04 18–8 32 1-2
ISCJB III 11 02 49 04.6–1.3 41.37N–.06 39.33E–.05 15–6 ¶16495204
CSEM III 11 02 49 05.5–.54 41.31N 39.25E 15 2.6
ISK III 11 02 49 05.6 41.23N 39.23E 21 2.6
DDA III 11 02 49 06.8 41.24N 39.22E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.4km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=6.4km az=178.0.
ISC III 11 02 51 53.7–.94 38.25N–.02 38.65E–.02 14–8 99 0-3
ISK III 11 02 51 53.1 38.26N 38.63E 5 3.0 ¶16495205
DDA III 11 02 51 53.3 38.26N 38.63E 11 3.0
CSEM III 11 02 51 53.6–.14 38.27N 38.64E 2 3.1
NSSC III 11 02 52 03.3–1.2 36.44N 40.71E 191–15 2.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=2.0.
NSSC Error ellipse: s-maj=30.5km s-min=45.9km az=-1.0.
ISC III 11 03 12 20.1–.99 38.28N–.02 38.63E–.02 18–6 46 0-2
ISK III 11 03 12 19.5 38.27N 38.59E 5 2.7 ¶16495206
CSEM III 11 03 12 20.1–.15 38.28N 38.61E 8 2.8
DDA III 11 03 12 20.1 38.25N 38.64E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=167.0.
ISC III 11 03 14 29.9–.94 38.31N–.04 38.60E–.03 11 22 0-2
CSEM III 11 03 14 29.7–.16 38.31N 38.61E 10 2.6 ¶16495207
ISK III 11 03 14 29.3 38.31N 38.59E 12 2.6
DDA III 11 03 14 29.3 38.26N 38.64E 7 2.6
ISCJB III 11 03 14 29.6–.65 38.29N–.06 38.61E–.05 11 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 11 03 56 47.1–.89 37.88N–.02 27.47E–.03 15–7 42 0-2
CSEM III 11 03 56 47.6–.19 37.90N 27.46E 2 2.8 ¶16495211
DDA III 11 03 56 47.2 37.90N 27.45E 7 2.8
ISK III 11 03 56 48.2 37.95N 27.50E 8 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=90.0.
ISC III 11 04 23 27.6–.92 40.08N–.03 28.95E–.03 9–8 36 0-2

DDA III 11 04 23 26.9 40.11N 28.91E 9 ¶16495212
CSEM III 11 04 23 27.7–.15 40.10N 28.96E 5 2.6
ISK III 11 04 23 27.5 40.12N 28.97E 7 2.6
ISCJB III 11 04 23 27.5–.58 40.09N–.03 28.93E–.04 0–8 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 11 09 29 31.3–1.1 39.55N–.02 28.55E–.02 7–10 72 1-2
DDA III 11 09 29 30.9 39.56N 28.55E 7 ¶16495215
ISK III 11 09 29 31.5 39.51N 28.54E 7 2.9L
ISCJB III 11 09 29 31.6–.47 39.53N–.02 28.57E–.03 5–4 2.9L
CSEM III 11 09 29 32.1–.14 39.52N 28.57E 8 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=154.6.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=65.0.
ISC III 11 11 06 49.2–.98 37.86N–.03 27.25E–.03 14–7 29 0-1
CSEM III 11 11 06 49.3–.11 37.84N 27.23E 10 2.7 ¶16495216
DDA III 11 11 06 49.4 37.87N 27.27E 7 2.7
ISCJB III 11 11 06 49.4–.51 37.87N–.03 27.25E–.04 6–7 2.7
ISK III 11 11 06 49.0 37.86N 27.24E 7 2.9L,2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=140.0.
DDA III 11 13 00 36.6 38.28N 38.10E 7
¶602442226
ISC III 11 13 53 15.2–1.3 38.38N–.03 37.63E–.03 1–11 40 0-5
CSEM III 11 13 53 15.7–.31 38.40N 37.66E 2 2.7 ¶16495218
ISK III 11 13 53 15.9 38.42N 37.63E 7 2.7
DDA III 11 13 53 15.8 38.31N 37.64E 7 2.7
ISCJB III 11 13 53 15.6–.83 38.38N–.03 37.68E–.05 1–8 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 11 16 21 16.0–.89 40.56N–.04 37.68E–.03 11 20 0-1
ISCJB III 11 16 21 17.0–.61 40.55N–.04 37.68E–.04 11 ¶601582371
CSEM III 11 16 21 17.1 40.55N 37.68E 7 2.6
DDA III 11 16 21 17.1 40.55N 37.68E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=19.1.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA III 11 18 39 44.0 36.40N 29.70E 12
CSEM III 11 18 39 32.5–1.7 35.64N 29.87E 2 2.7 ¶601582373
CSEM Event type ke. Error ellipse: s-maj=33.1km s-min=18.9km az=5.0.
ISC III 11 19 10 35.4–1.0 38.17N–.02 39.02E–.03 17–10 38 0-2
ISK III 11 19 10 34.4 38.18N 39.00E 11 2.7 ¶16495223
CSEM III 11 19 10 35.3–.23 38.18N 39.05E 10 2.8
ISCJB III 11 19 10 35.3–.64 38.17N–.03 39.05E–.04 7–8 2.8
DDA III 11 19 10 35.2 38.13N 39.01E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=5.1km az=20.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=158.8.
ISC III 11 20 49 58.3–.93 39.59N–.03 38.63E–.02 15–7 41 0-2
DDA III 11 20 49 53.1 39.64N 38.86E 7 ¶16495226
CSEM III 11 20 49 58.3–.35 39.48N 38.37E 5 2.8
ISK III 11 20 49 58.4 39.65N 38.68E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=6.8km az=12.0.
ISC III 11 22 06 36.2–1.0 38.51N–.03 31.86E–.03 12–11 34 0-2
ISCJB III 11 22 06 35.7–.69 38.51N–.06 31.85E–.04 1–10 ¶16495227
CSEM III 11 22 06 36.2–.22 38.51N 31.86E 8 2.7
ISK III 11 22 06 36.2 38.52N 31.92E 7 2.7
DDA III 11 22 06 37.7 38.63N 31.79E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.3km az=19.1.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.7km az=26.0.
DDA III 12 00 36 46.3 38.22N 37.19E 9
¶602442259
ISC III 12 04 09 32.3–.99 37.86N–.03 27.31E–.03 7–10 30 0-1
DDA III 12 04 09 31.9 37.85N 27.33E 7 ¶16495232
ISCJB III 12 04 09 32.0–.53 37.88N–.04 27.31E–.04 7–8
CSEM III 12 04 09 32.1–.19 37.88N 27.30E 5 2.6
ISK III 12 04 09 32.1 37.89N 27.33E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=19.3.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=61.0.
ISC III 12 04 17 11.0–1.0 36.87N–.02 35.52E–.02 14–9 72 0-3
DDA III 12 04 17 10.8 36.89N 35.52E 7 ¶16495233
CSEM III 12 04 17 11.6–.17 36.88N 35.50E 19–1 2.9
ISK III 12 04 17 11.1 36.88N 35.47E 20 2.9
ISCJB III 12 04 17 11.9–.31 36.89N–.02 35.51E–.02 25–4 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 12 10 05 20.3 36.41N 35.34E 7
¶602442266
DDA III 12 10 45 57.0 39.68N 29.43E 7
CSEM III 12 10 45 57.0 39.68N 29.43E 7 2.6L ¶601582390
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 12 12 17 27.4–1.0 38.78N–.04 39.10E–.05 10 18 0-1
ISK III 12 12 17 26.4 38.68N 39.17E 20 2.6 ¶16495252
ISCJB III 12 12 17 28.8–.77 38.86N–.04 39.10E–.07 10 2.6
CSEM III 12 12 17 28.6–.28 38.81N 39.16E 20 2.6
DDA III 12 12 17 29.6 38.76N 39.26E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.2km az=34.3.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=6.3km az=125.0.
ISC III 12 12 23 58.0–1.8 37.05N–.04 31.21E–.04 133–13 42 1-2
ISK III 12 12 23 57.9 37.01N 31.26E 127 2.8 ¶16495253
ISCJB III 12 12 23 58.0–.99 37.05N–.05 31.21E–.06 130–9 2.8
CSEM III 12 12 23 58.0–.39 37.05N 31.21E 130–4 2.7
DDA III 12 12 24 00.9 36.98N 31.09E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=7.4km az=35.4.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=4.0.
ISC III 12 12 44 14.3–1.1 41.09N–.04 36.29E–.04 11–7 29 0-2
ISK III 12 12 44 13.9 41.08N 36.30E 7 2.7 ¶16495255
CSEM III 12 12 44 14.3–.49 41.11N 36.31E 2 2.7
DDA III 12 12 44 17.7 40.99N 36.07E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.6km s-min=6.7km az=31.0.
ISC III 12 12 47 31.2–.85 37.61N–.03 36.60E–.02 8 42 0-2
DDA III 12 12 47 30.2 37.60N 36.57E 7 ¶16495256
ISK III 12 12 47 31.2 37.59N 36.62E 11 3.2
CSEM III 12 12 47 31.5–.17 37.59N 36.62E 10 3.2
ISCJB III 12 12 47 31.4–.40 37.59N–.03 36.60E–.03 8 3.2
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 12 14 34 30.6–.88 40.74N–.02 29.14E–.02 13–6 75 0-2
CSEM III 12 14 34 30.6–.06 40.73N 29.14E 8 3.4L ¶16495257
ISK III 12 14 34 30.3 40.74N 29.14E 5 3.2L
DDA III 12 14 34 30.2 40.75N 29.16E 15 3.2L
ISCJB III 12 14 34 30.5–.32 40.73N–.02 29.14E–.03 7–4 3.2L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 12 14 36 17.8–.99 38.35N–.03 38.77E–.03 19–3 38 0-2
ISK III 12 14 36 16.9 38.34N 38.76E 18 2.9 ¶16495258
CSEM III 12 14 36 17.6–.26 38.37N 38.78E 15 3.1L
DDA III 12 14 36 17.8 38.30N 38.81E 7 3.1L
ISCJB III 12 14 36 17.6–.60 38.35N–.03 38.77E–.04 10–5 3.1L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 12 15 12 33.7 39.68N 29.46E 7
CSEM III 12 15 12 33.7 39.68N 29.46E 7 2.6L ¶601582393
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 12 15 13 33.4–1.1 39.73N–.03 34.77E–.03 19–5 35 0-2
ISK III 12 15 13 32.9 39.74N 34.78E 16 3.1 ¶16495259
DDA III 12 15 13 32.7 39.69N 34.78E 7 3.1
CSEM III 12 15 13 33.3–.18 39.72N 34.80E 15 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=85.0.
ISC III 12 15 20 42.4–.90 40.34N–.03 27.85E–.03 4–5 36 0-1
ISCJB III 12 15 20 41.6–.69 40.30N–.04 27.89E–.05 3–7 ¶16495261
ISK III 12 15 20 41.8 40.35N 27.88E 5 2.4
DDA III 12 15 20 42.1 40.32N 27.83E 7 2.4
CSEM III 12 15 20 42.1–.19 40.34N 27.88E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.0km az=34.6.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.5km az=27.0.
ISC III 12 15 54 51.0–1.1 40.72N–.05 41.13E–.04 9–13 28 1-2
CSEM III 12 15 54 51.5–.33 40.73N 41.14E 0–7 2.6L ¶601582396
DDA III 12 15 54 51.0 40.73N 41.15E 7 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=5.0km az=139.0.
ISC III 12 15 57 53.8–1.4 37.06N–.04 39.25E–.03 3–12 30 1-2
DDA III 12 15 57 53.8 37.01N 39.27E 7 ¶16495264
CSEM III 12 15 57 54.3–.20 37.11N 39.24E 8 2.7
ISK III 12 15 57 54.4 37.15N 39.25E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=123.0.
DDA III 12 16 02 34.0 40.76N 34.90E 7
CSEM III 12 16 02 34.0 40.76N 34.90E 7 2.4L ¶601582397
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 12 16 39 58.1–1.6 37.10N–.05 31.09E–.04 96–10 40 0-3
ISK III 12 16 39 55.6 37.01N 31.19E 101 3.0 ¶16495265
ISCJB III 12 16 39 57.0–.97 37.08N–.05 31.08E–.06 105–8 3.0
CSEM III 12 16 39 57.4–.18 37.12N 31.10E 100 3.0
DDA III 12 16 39 59.5 37.03N 31.05E 67 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=8.3km az=2.8.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.2km az=163.0.
ISC III 12 16 48 35.4–1.1 38.01N–.02 37.25E–.03 5–10 52 1-2
ISK III 12 16 48 34.6 38.02N 37.21E 5 3.0 ¶16495266
DDA III 12 16 48 35.0 38.01N 37.24E 7 3.0
CSEM III 12 16 48 35.3–.14 38.01N 37.22E 5 3.0
ISCJB III 12 16 48 35.2–.53 38.00N–.02 37.23E–.04 2–5 3.0
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 12 17 47 39.9–.88 39.15N–.03 36.64E–.02 15–7 32 0-2
ISK III 12 17 47 39.7 39.13N 36.60E 2 2.5 ¶16495267
CSEM III 12 17 47 40.3–.17 39.15N 36.64E 8 2.3
ISCJB III 12 17 47 40.3–.50 39.15N–.03 36.63E–.04 11–5 2.3
DDA III 12 17 47 40.3 39.16N 36.64E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=16.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.9km az=148.6.
ISC III 12 21 16 28.2–1.2 37.44N–.03 37.19E–.03 2–11 42 0-2
DDA III 12 21 16 27.4 37.51N 37.14E 6 ¶16495268
ISK III 12 21 16 28.5 37.47N 37.16E 7 2.9
ISCJB III 12 21 16 28.7–.83 37.46N–.04 37.16E–.05 4–10 2.9
CSEM III 12 21 16 29.2–.17 37.46N 37.14E 10 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.2km az=40.4.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=62.0.
ISC III 12 21 50 22.2–1.2 38.10N–.02 35.16E–.03 5–13 44 1-2
DDA III 12 21 50 21.6 38.11N 35.17E 7 ¶16495270
CSEM III 12 21 50 22.1–.16 38.11N 35.15E 2 2.8
ISK III 12 21 50 22.0 38.11N 35.19E 5 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=112.0.
ISC III 12 22 05 21.9–1.5 38.87N–.04 28.02E–.06 1–16 23 0-1
ISK III 12 22 05 21.6 38.92N 27.99E 2 2.5 ¶16495271
DDA III 12 22 05 22.7 38.89N 27.96E 7 2.5
CSEM III 12 22 05 22.6–.34 38.90N 27.94E 7–3 2.4
ISCJB III 12 22 05 22.6–.71 38.89N–.04 27.94E–.05 11–15 2.4
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 12 23 42 34.5–1.1 36.27N–.03 35.69E–.04 27–12 32 0-2
ISK III 12 23 42 33.5 36.19N 35.64E 26 2.8 ¶16495272
CSEM III 12 23 42 34.3–.26 36.27N 35.61E 20 2.8
NSSC III 12 23 42 34.4–1.0 36.30N 35.67E 4–12 1.7L,0.9
ISCJB III 12 23 42 34.7–1.0 36.27N–.06 35.63E–.08 23–16 1.7L,0.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 13 01 21 42.9 37.85N 27.33E 7
CSEM III 13 01 21 42.9 37.85N 27.33E 7 2.5 ¶601582404
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 13 09 11 40.2–1.3 38.94N–.03 42.15E–.03 8–13 32 0-4
CSEM III 13 09 11 40.5–.27 38.95N 42.12E 10 2.7 ¶16495279
ISCJB III 13 09 11 40.5–.60 38.93N–.03 42.17E–.04 12–5 2.7
ISK III 13 09 11 40.3 38.94N 42.16E 7 3.0
DDA III 13 09 11 41.0 38.98N 42.09E 7 3.0
ISN III 13 09 11 42.7–16 38.43N 42.34E 0–86 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.6km az=141.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.6km az=12.1.
ISN Error ellipse: s-maj=118.4km s-min=46.6km az=-1.0.
DDA III 13 20 16 57.4 39.06N 26.81E 7
¶602442296
DDA III 13 22 34 17.2 39.13N 29.04E 7
CSEM III 13 22 34 17.2 39.13N 29.04E 7 2.4 ¶601582419
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA III 14 02 37 56.0 37.90N 27.35E 7
CSEM III 14 02 37 56.0 37.90N 27.35E 7 2.6 ¶601582424
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 06 01 03.4–1.3 36.05N–.04 29.58E–.02 1–9 153 0-40
DDA III 14 06 01 00.1 35.89N 29.67E 1 ¶16477745
ISCJB III 14 06 01 02.6–.75 35.99N–.03 29.60E–.03 1–5 3.6b
IDC III 14 06 01 02.5–1.4 36.06N 29.62E 0 3.7,3.7
ISK III 14 06 01 03.3 36.02N 29.58E 6 3.4L,3.7
THE III 14 06 01 03.4 36.11N 29.59E 2–11 3.5L,3.7
CSEM III 14 06 01 04.2–.21 36.06N 29.57E 2 3.5L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=161.2.
IDC Error ellipse: s-maj=31.6km s-min=19.3km az=145.0.
THE Event type ke. Error ellipse: s-maj=22.2km s-min=0.7km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.0km az=159.0.
DDA III 14 06 54 01.7 37.88N 27.33E 9
CSEM III 14 06 54 01.7 37.88N 27.33E 9 2.5 ¶601582429
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 07 02 07.0–1.2 39.96N–.05 39.79E–.07 17–10 18 0-1
DDA III 14 07 02 05.4 39.67N 39.27E 7 ¶16495294
ISK III 14 07 02 07.8 39.81N 40.08E 5 1.9
CSEM III 14 07 02 08.2–.19 39.91N 39.73E 10 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.6km az=119.0.
ISC III 14 08 13 32.8–1.1 37.40N–.03 36.18E–.03 4–10 28 0-2

ISK III 14 08 13 31.6 37.49N 36.19E 8 2.4 ¶16495296
DDA III 14 08 13 32.9 37.40N 36.17E 7 2.4
CSEM III 14 08 13 33.1–.52 37.40N 36.16E 2 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=10.3km az=8.0.
ISC III 14 11 20 35.2–1.1 38.97N–.04 42.26E–.04 26–11 27 0-1
ISK III 14 11 20 30.8 38.61N 42.31E 8 2.7 ¶16495304
CSEM III 14 11 20 34.7–.31 39.00N 42.37E 10 3.0
ISCJB III 14 11 20 35.7–.90 38.92N–.05 42.30E–.07 33–26 3.0
DDA III 14 11 20 35.3 39.02N 42.49E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=6.4km az=80.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=7.4km az=162.4.
ISC III 14 13 28 40.5–1.5 40.68N–.07 37.71E–.04 17–13 21 0-2
DDA III 14 13 28 40.6 40.64N 37.70E 7 ¶601582449
CSEM III 14 13 28 40.6 40.64N 37.70E 7 2.7L
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 13 32 27.8–.92 39.88N–.03 33.06E–.03 15–7 36 0-1
CSEM III 14 13 32 27.6–.17 39.90N 33.07E 10 2.6 ¶16495306
ISK III 14 13 32 27.8 39.87N 33.03E 11 2.6
DDA III 14 13 32 27.5 39.91N 33.04E 7 2.6
ISCJB III 14 13 32 27.7–.56 39.90N–.03 33.09E–.05 6–7 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 14 14 46 28.8 36.95N 34.69E 7
¶602442331
ISC III 14 15 04 07.0–.84 40.34N–.02 27.13E–.02 14–6 58 0-2
ISK III 14 15 04 06.3 40.33N 27.12E 16 2.7 ¶16495308
CSEM III 14 15 04 07.6–.18 40.34N 27.15E 10 2.7
DDA III 14 15 04 07.6 40.33N 27.17E 3 2.7
ATH III 14 15 04 08.0 40.32N 27.11E 19–3 1.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=172.0.
ATH Event type ke. Error ellipse: s-maj=4.7km s-min=1.5km az=13.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 14 15 49 21.4–1.5 37.29N–.05 28.24E–.04 3–14 18 0-1
CSEM III 14 15 49 21.3 37.27N 28.28E 5 2.6 ¶16495309
ISK III 14 15 49 21.3 37.27N 28.28E 5 2.6
ISCJB III 14 15 49 21.8–.97 37.28N–.06 28.25E–.06 5–14 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 14 16 04 33.2 37.18N 27.82E 7
¶602442334
ISC III 14 16 06 50.5–1.1 37.20N–.04 27.92E–.03 12 20 0-1
CSEM III 14 16 06 46.5–.48 37.02N 28.18E 10 2.7 ¶16495310
DDA III 14 16 06 47.4 37.08N 28.11E 7 2.7
ISK III 14 16 06 49.3 37.19N 27.93E 27 2.7
ISCJB III 14 16 06 50.8–.63 37.20N–.04 27.91E–.04 12 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 14 16 09 09.7 37.54N 27.48E 7
CSEM III 14 16 09 10.0–.46 37.06N 28.05E 10 2.7 ¶601582460
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=2.9km az=130.0.
ISC III 14 16 52 04.8–1.1 39.21N–.04 33.88E–.03 16–12 30 0-5
DDA III 14 16 52 03.3 39.16N 33.89E 6 ¶16495312
CSEM III 14 16 52 04.9–.28 39.24N 33.85E 10 2.5
ISK III 14 16 52 04.4 39.25N 33.83E 19 2.5
ISCJB III 14 16 52 06.2–.66 39.19N–.05 33.75E–.07 26–10 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 14 17 12 34.7–1.1 39.88N–.05 27.61E–.06 15–10 26 0-1
CSEM III 14 17 12 35.2–.27 39.84N 27.66E 15 2.5 ¶16495313
ISK III 14 17 12 35.4 39.87N 27.74E 15 2.5
DDA III 14 17 12 35.2 39.89N 27.60E 7 2.5
ISCJB III 14 17 12 35.1–1.0 39.85N–.05 27.6E–.10 16–10 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 14 17 32 16.7–1.3 37.85N–.03 29.46E–.06 4–11 20 0-1
DDA III 14 17 32 16.6 37.85N 29.47E 7 ¶16495314
ISCJB III 14 17 32 16.7–.83 37.86N–.03 29.51E–.09 6–10
CSEM III 14 17 32 16.5–.58 37.86N 29.42E 2 2.6
ISK III 14 17 32 20.2 38.23N 29.22E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.5km az=172.4.
CSEM Event type ke. Error ellipse: s-maj=18.2km s-min=9.6km az=90.0.
ISC III 14 18 11 01.3–1.0 37.85N–.03 27.31E–.03 8–11 30 0-1
CSEM III 14 18 11 01.4–.23 37.85N 27.28E 5 2.7 ¶16495315
ISK III 14 18 11 01.2 37.86N 27.33E 6 2.5
DDA III 14 18 11 01.3 37.84N 27.26E 7 2.5
ISCJB III 14 18 11 01.1–.51 37.86N–.03 27.30E–.04 6–10 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 14 22 37 36.0–.95 37.85N–.01 27.31E–.02 6–8 125 0-3
DDA III 14 22 37 35.2 37.85N 27.30E 11 ¶16495318
CSEM III 14 22 37 35.9–.16 37.85N 27.32E 0–1 3.0
ISK III 14 22 37 35.1 37.87N 27.34E 5 3.0
ATH III 14 22 37 36.7 37.85N 27.25E 12–3 2.3L
THE III 14 22 37 37.4 37.81N 27.24E 2–2 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=68.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.1km az=246.0. Analyst: M.Ziazia ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=181.0.
ISC III 15 00 25 45.7–1.1 39.62N–.03 37.98E–.03 14–10 32 0-1
ISK III 15 00 25 43.1 39.42N 37.87E 5 2.6 ¶16495325
CSEM III 15 00 25 45.9–.32 39.62N 37.99E 10 2.6
ISCJB III 15 00 25 46.0–.61 39.59N–.04 37.96E–.04 10–6 2.6
DDA III 15 00 25 46.2 39.61N 38.03E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.5km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.5km az=43.5.
ISC III 15 01 45 41.1–.99 39.37N–.03 29.45E–.04 11–6 20 0-1
DDA III 15 01 45 37.8 39.16N 29.39E 8 ¶16495328
CSEM III 15 01 45 40.9–.43 39.39N 29.46E 15 2.6
ISK III 15 01 45 40.4 39.41N 29.41E 16 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.0km s-min=9.3km az=104.0.
ISC III 15 02 42 41.7–1.1 37.12N–.08 28.66E–.06 14 17 0-1
ISCJB III 15 02 42 41.1–1.1 37.15N–.06 28.71E–.06 14 ¶16495331
DDA III 15 02 42 43.0 36.69N 28.47E 7
CSEM III 15 02 42 43.4–.30 37.26N 28.58E 15 2.8
ISK III 15 02 42 43.2 37.19N 28.50E 25 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.4km az=33.7.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.6km az=41.0.
ISC III 15 04 26 18.8–.90 38.85N–.03 27.95E–.03 9–7 43 0-2
DDA III 15 04 26 17.5 38.77N 27.95E 7 ¶16495332
CSEM III 15 04 26 19.4–.33 38.85N 27.96E 10 2.7
ISCJB III 15 04 26 19.3–.55 38.87N–.04 27.96E–.04 4–6 2.7
ISK III 15 04 26 20.2 38.81N 28.01E 21 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.9km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.3km az=35.9.
ISC III 15 05 23 54.1–.90 40.70N–.03 30.53E–.03 11–8 33 0-2
ISCJB III 15 05 23 53.9–.52 40.69N–.03 30.54E–.04 11–6 ¶16495334
CSEM III 15 05 23 53.9–.22 40.68N 30.55E 10 2.6
DDA III 15 05 23 53.7 40.91N 30.78E 7 2.6
ISK III 15 05 23 55.4 40.59N 30.33E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=37.8.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=34.0.
ISC III 15 06 20 50.3–.99 38.85N–.02 27.13E–.03 11–8 56 0-2
ISK III 15 06 20 49.7 38.86N 27.10E 3 2.9 ¶16495335
CSEM III 15 06 20 50.7–.19 38.84N 27.11E 8 2.9
ISCJB III 15 06 20 50.9–.48 38.87N–.03 27.13E–.03 8–5 2.9
DDA III 15 06 20 50.2 38.94N 27.13E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=86.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=34.1.
ISC III 15 08 14 58.7–1.3 39.99N–.03 39.86E–.04 14–10 31 0-1
ISK III 15 08 14 58.8 39.99N 39.91E 24 2.6 ¶16495336
CSEM III 15 08 14 59.3–.28 39.96N 39.85E 20 2.8
ISCJB III 15 08 14 59.7–.61 39.98N–.04 39.84E–.05 22–7 2.8
DDA III 15 08 15 00.8 39.97N 39.73E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.4km az=7.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.1km az=140.3.
ISC III 15 09 16 35.9–1.0 37.28N–.02 30.55E–.02 6–8 3.8b 222 0-39
IDC III 15 09 16 34.8–1.4 37.31N 30.61E 0 3.9b,3.8 ¶16478182
ISK III 15 09 16 35.3 37.29N 30.49E 13 3.5L,3.8
THE III 15 09 16 35.4 37.35N 30.77E 0–1 3.5L,3.8
CSEM III 15 09 16 36.9–.12 37.32N 30.51E 10 3.5L,3.8
ISCJB III 15 09 16 36.2–.41 37.32N–.02 30.53E–.02 9–3 3.9b,3.8
DDA III 15 09 16 36.2 37.26N 30.57E 19 3.9b,3.8
NIC III 15 09 16 37.9–.20 37.53N 30.41E 56 4.3b,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=41.4km s-min=18.6km az=146.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=72.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=17.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=156.9.
ISC III 15 10 40 59.8–1.1 40.65N–.04 41.26E–.05 24–13 25 0-1
DDA III 15 10 40 59.5 40.73N 41.11E 7 ¶601582488
CSEM III 15 10 40 59.8–.30 40.67N 41.19E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.5km az=127.0.
ISC III 15 14 50 23.0–.78 37.16N–.02 28.40E–.01 10–5 3.5b 361 0-40
ISCJB III 15 14 50 21.9–.38 37.18N–.01 28.43E–.02 9–3 3.4b ¶16320493
ISK III 15 14 50 21.6 37.18N 28.38E 15 3.7L
IDC III 15 14 50 21.3–.90 37.09N 28.55E 0 3.8,3.8L
DDA III 15 14 50 22.1 37.15N 28.42E 27 3.8,3.8L
ATH III 15 14 50 22.6 37.18N 28.38E 20–2 3.8L,3.8L
NIC III 15 14 50 22.2–.10 37.20N 28.13E 16 4.4b,4.0L
CSEM III 15 14 50 22.9–.08 37.17N 28.39E 10 3.7L,4.0L
THE III 15 14 50 23.2 37.15N 28.43E 0–0 3.7L,4.0L
HLW III 15 14 50 27.8 37.01N 28.60E 25–13 4.0,4.0L
NSSC III 15 14 50 28.6–.77 36.93N 28.76E 23–135 2.9L,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=10.0.
IDC Error ellipse: s-maj=16.6km s-min=14.3km az=168.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.3km az=210.0. Analyst: Koutrakis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=49.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=40.0.
NSSC Error ellipse: s-maj=24.2km s-min=96.7km az=-1.0.
ISC III 15 15 47 30.5–1.1 37.27N–.02 30.78E–.03 7–9 55 0-3
CSEM III 15 15 47 31.5–.21 37.29N 30.67E 5 3.0 ¶16495340
ISK III 15 15 47 31.2 37.30N 30.66E 8 3.0
ISCJB III 15 15 47 31.6–.58 37.28N–.03 30.68E–.04 6–5 3.0
DDA III 15 15 47 32.7 37.32N 30.41E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=12.7.
ISC III 15 15 53 39.7–1.2 40.59N–.04 37.72E–.04 16–14 24 0-2
ISK III 15 15 53 38.9 40.57N 37.73E 5 2.6 ¶16495341
CSEM III 15 15 53 40.0–.24 40.58N 37.73E 8 3.0
DDA III 15 15 53 40.2 40.56N 37.77E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=130.0.
ISC III 15 17 14 12.7–.88 40.22N–.02 42.06E–.02 17–7 73 0-3
TIF III 15 17 14 11.7 40.15N 41.87E 23–1 ¶16495343
ISK III 15 17 14 12.7 40.23N 42.11E 6 3.3
DDA III 15 17 14 12.7 40.23N 42.09E 7 3.3
CSEM III 15 17 14 13.1–.21 40.21N 42.06E 2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.5km az=136.0.
ISC III 15 17 36 54.9–.86 40.77N–.02 29.16E–.02 11–6 59 0-2
CSEM III 15 17 36 54.8–.09 40.76N 29.16E 10 2.4 ¶16495344
ISK III 15 17 36 54.2 40.76N 29.17E 11 2.8
DDA III 15 17 36 55.1 40.75N 29.16E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=70.0.
ISC III 15 21 28 18.1–1.5 40.25N–.05 34.65E–.06 4–18 20 0-1
CSEM III 15 21 28 18.2–.43 40.24N 34.65E 2 2.8 ¶601582510
DDA III 15 21 28 19.2 40.39N 34.83E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=8.8km az=33.0.
ISC III 15 21 57 18.3–1.1 40.07N–.03 38.66E–.03 22–6 37 0-2
DDA III 15 21 57 18.0 40.04N 38.67E 11 ¶16495345
ISK III 15 21 57 17.8 40.07N 38.69E 6 2.7
CSEM III 15 21 57 18.1–.17 40.05N 38.67E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=148.0.
ISC III 15 21 58 57.7–.87 39.80N–.03 41.67E–.03 8 27 0-2
CSEM III 15 21 58 57.9–.30 39.79N 41.64E 10 2.6 ¶16495346
DDA III 15 21 58 58.6 39.87N 41.70E 7 2.6
ISCJB III 15 21 58 58.8–.60 39.84N–.05 41.73E–.04 8 2.6
ISK III 15 21 58 58.0 39.68N 41.61E 8 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=6.2km az=33.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=14.4.
ISC III 15 23 34 06.8–.86 37.40N–.04 36.02E–.03 14–7 33 0-2
DDA III 15 23 34 05.8 37.40N 35.95E 7 ¶16495347
CSEM III 15 23 34 06.9–.17 37.40N 36.02E 15 2.6
ISK III 15 23 34 06.6 37.36N 36.06E 10 2.6
ISCJB III 15 23 34 06.8–.52 37.39N–.05 36.04E–.04 12–5 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 16 01 30 01.2–.82 38.92N–.02 27.92E–.02 11–5 82 0-2
ATH III 16 01 29 58.7 38.99N 28.02E 11–4 2.1L ¶16495349
ISK III 16 01 30 00.9 38.92N 27.93E 12 2.7
CSEM III 16 01 30 01.4–.13 38.91N 27.91E 10 2.7
ISCJB III 16 01 30 01.3–.41 38.93N–.02 27.92E–.02 6–4 2.7
DDA III 16 01 30 01.2 38.94N 27.95E 7 2.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.1km s-min=1.8km az=218.0. Analyst: A.ANDREOU ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=177.4.
ISC III 16 07 08 06.4–.98 37.20N–.03 28.12E–.03 8–7 34 0-2
ISK III 16 07 08 05.9 37.27N 28.25E 5 2.6 ¶16495351
CSEM III 16 07 08 07.2–.19 37.28N 28.25E 2 2.6
DDA III 16 07 08 07.4 37.27N 28.20E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=55.0.

ISC III 16 11 18 02.3–.77 37.28N–.01 30.61E–.01 11–5 4.5b 633 0-124
NIC III 16 11 17 56.8–.30 37.40N 30.12E 37 4.5b,4.1L **¶16339086**
IDC III 16 11 17 59.9–.49 37.32N 30.57E 0 4.4,4.4b
DDA III 16 11 18 00.2 37.25N 30.65E 24 4.4,4.4b
BJI III 16 11 18 00.9 37.30N 30.70E 10 5.0b,4.7b
NEIC III 16 11 18 01.6 37.30N 30.48E 8 4.4L,4.4b
ISK III 16 11 18 01.6 37.31N 30.48E 8 4.1L,4.4b
ISCJB III 16 11 18 02.2–.36 37.26N–.01 30.61E–.01 22–3 4.4b,3.5s
CSEM III 16 11 18 02.7–.06 37.28N 30.57E 10 4.6b,3.5s
THE III 16 11 18 02.7 37.35N 30.73E 6–1 4.1L,3.5s
NSSC III 16 11 18 03.8–3.2 37.32N 30.94E 0–112 3.4L,2.5
GII III 16 11 18 04.0–.00 37.20N 30.41E 15 4.1b,3.7
HLW III 16 11 18 05.1 37.14N 30.79E 26–10 4.5,4.3L
ISC Event type fe.
IDC Error ellipse: s-maj=11.7km s-min=10.1km az=125.0.
NEIC Event type fe. Felt [II] at Antalya. After ISK.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=1.6km az=135.7.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=48.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=53.0.
NSSC Error ellipse: s-maj=79.9km s-min=184.7km az=-1.0.
GII Event type ke.
ISC III 16 11 37 33.7–1.0 37.29N–.02 30.45E–.02 5–10 56 0-2
ISK III 16 11 37 33.1 37.30N 30.43E 6 3.1 **¶16495357**
ISCJB III 16 11 37 33.8–.62 37.30N–.03 30.42E–.04 1–6 3.1
CSEM III 16 11 37 34.0–.19 37.31N 30.43E 5 3.1
DDA III 16 11 37 34.2 37.25N 30.49E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=18.1.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=120.0.
ISC III 16 11 45 08.6–1.1 37.29N–.02 30.56E–.03 4–10 66 0-3
DDA III 16 11 45 06.8 37.26N 30.55E 18 **¶16495358**
ISK III 16 11 45 06.7 37.31N 30.55E 5 3.1
CSEM III 16 11 45 07.8–.11 37.31N 30.54E 2 3.1
ISCJB III 16 11 45 07.8–.57 37.31N–.03 30.56E–.04 2–5 3.1
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 16 12 45 44.1–1.1 37.26N–.02 30.67E–.03 5–11 63 0-3
DDA III 16 12 45 43.5 37.24N 30.66E 7 **¶16495360**
ISCJB III 16 12 45 45.0–.53 37.30N–.03 30.56E–.04 4–5
ISK III 16 12 45 44.2 37.30N 30.57E 3 3.1
CSEM III 16 12 45 45.1–.17 37.29N 30.55E 5 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=27.9.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=129.0.
ISC III 16 13 39 15.4–1.2 39.25N–.03 38.45E–.03 5–10 34 0-2
ISK III 16 13 39 14.0 39.21N 38.52E 22 2.9 **¶16495362**
CSEM III 16 13 39 15.8–.29 39.28N 38.35E 10 2.9
DDA III 16 13 39 16.1 39.31N 38.36E 7 2.9
ISCJB III 16 13 39 16.1–.65 39.28N–.04 38.33E–.04 5–7 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 16 14 09 23.7–1.1 37.97N–.06 34.85E–.04 8–13 23 0-2
CSEM III 16 14 09 23.3–.30 38.02N 34.86E 12 2.9 **¶16495363**
ISK III 16 14 09 23.4 37.95N 34.82E 7 2.9
ISCJB III 16 14 09 23.2–1.0 38.02N–.06 34.88E–.06 7–8 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 16 16 38 33.2–1.0 40.10N–.03 34.85E–.03 11–9 32 0-2
ISK III 16 16 38 31.2 40.20N 34.95E 8 2.9 **¶16495365**
CSEM III 16 16 38 32.4–.24 40.12N 34.88E 8 3.0
DDA III 16 16 38 32.8 40.10N 34.81E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.2km az=70.0.
ISC III 16 19 47 16.2–.95 37.24N–.03 30.60E–.04 17–7 30 0-2
ISK III 16 19 47 16.0 37.30N 30.43E 2 2.9 **¶16495367**
CSEM III 16 19 47 17.6–.27 37.27N 30.48E 8 2.9
DDA III 16 19 47 17.7 37.27N 30.46E 5 2.9
ISCJB III 16 19 47 17.9–.58 37.26N–.03 30.56E–.06 10–7 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 16 23 04 18.5–.91 39.67N–.02 27.87E–.02 7–6 58 0-2
ISK III 16 23 04 17.9 39.66N 27.86E 6 2.9 **¶16495368**
DDA III 16 23 04 18.0 39.68N 27.86E 7 2.9
CSEM III 16 23 04 18.4–.08 39.67N 27.87E 8 2.9
ISCJB III 16 23 04 18.1–.45 39.68N–.02 27.87E–.03 4–4 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 17 02 39 29.3–1.1 39.27N–.02 39.81E–.02 3–10 49 0-2
ISK III 17 02 39 28.5 39.25N 39.80E 5 3.0 **¶16495371**
DDA III 17 02 39 29.0 39.25N 39.75E 14 3.0
CSEM III 17 02 39 30.0–.32 39.26N 39.80E 10 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=6.4km az=176.0.
ISC III 17 02 56 52.9–.95 38.95N–.02 27.94E–.02 5–8 61 0-2
CSEM III 17 02 56 52.9–.12 38.93N 27.93E 5 2.6 **¶16495372**
ISK III 17 02 56 52.2 38.94N 27.97E 5 2.9
DDA III 17 02 56 52.5 38.94N 27.95E 3 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=176.0.
ISC III 17 15 52 05.2–1.2 40.74N–.02 34.87E–.03 10–11 43 0-2
ISK III 17 15 52 04.8 40.75N 34.94E 6 2.9 **¶16495383**
CSEM III 17 15 52 05.2–.17 40.74N 34.91E 5 3.0
DDA III 17 15 52 05.4 40.74N 34.89E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=98.0.
ISC III 17 21 34 48.0–1.1 39.93N–.03 42.14E–.04 9–10 27 0-1
CSEM III 17 21 34 48.1–.21 39.94N 42.06E 10 2.7 **¶601582556**
DDA III 17 21 34 48.9 40.00N 42.13E 7 2.7
ISCJB III 17 21 34 49.0–.51 39.96N–.04 42.10E–.04 11–7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 17 23 05 47.5–1.3 38.54N–.05 31.32E–.06 11–18 18 0-1
DDA III 17 23 05 47.6 38.55N 31.30E 7 **¶601582557**
ISCJB III 17 23 05 47.8–.64 38.53N–.04 31.31E–.04 1–12
CSEM III 17 23 05 48.2–.18 38.54N 31.31E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.0km az=178.7.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=175.0.
ISC III 17 23 19 44.4–.92 40.02N–.04 41.81E–.03 13–6 25 0-1
CSEM III 17 23 19 44.4–.20 39.98N 41.76E 5 2.7 **¶601582558**
DDA III 17 23 19 44.8 40.02N 42.00E 12 2.7
ISCJB III 17 23 19 45.2–.57 40.01N–.04 41.79E–.04 9–5 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 18 02 10 30.6–1.0 37.70N–.03 29.31E–.04 13–7 32 0-1
ISK III 18 02 10 29.6 37.66N 29.30E 14 2.8 **¶16495393**
ISCJB III 18 02 10 30.3–.64 37.70N–.03 29.32E–.05 10–5 2.8
CSEM III 18 02 10 30.1–.29 37.68N 29.32E 12 2.8
DDA III 18 02 10 31.0 37.73N 29.31E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=168.9.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=93.0.
ISC III 18 05 19 11.7–1.3 36.61N–.04 30.28E–.03 84–7 96 0-7
ISK III 18 05 19 11.4 36.63N 30.27E 82 3.2 **¶16495394**
DDA III 18 05 19 11.5 36.67N 30.24E 82 3.2
ISCJB III 18 05 19 11.1–.44 36.59N–.03 30.29E–.04 88–5 3.2
CSEM III 18 05 19 12.2–.13 36.60N 30.29E 80 3.1L
HLW III 18 05 19 17.2 35.97N 30.33E 9–10 3.4,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.1km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=137.0.
ISC III 18 07 17 21.9–1.2 38.60N–.03 31.15E–.02 1–11 59 0-3
ISK III 18 07 17 20.8 38.60N 31.13E 5 2.9 **¶16495396**
CSEM III 18 07 17 21.8–.13 38.58N 31.15E 2 2.7L
DDA III 18 07 17 21.5 38.61N 31.14E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=16.0.
ISC III 18 10 19 44.0–.99 38.06N–.02 38.23E–.02 12–9 84 0-3
DDA III 18 10 19 43.8 38.06N 38.22E 11 **¶602003242**
ISCJB III 18 10 19 43.9–.51 38.06N–.02 38.24E–.03 3–5
ISK III 18 10 19 43.2 38.07N 38.23E 5 3.1
CSEM III 18 10 19 44.0–.16 38.06N 38.23E 5 3.4L
NSSC III 18 10 19 47.3–.92 36.83N 39.54E 162–73 2.6L,0.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=1.9.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=69.0.
NSSC Error ellipse: s-maj=15.9km s-min=45.2km az=-1.0.
ISC III 18 10 49 34.5–1.0 40.69N–.02 33.05E–.02 12–11 53 0-2
ISK III 18 10 49 33.7 40.70N 33.05E 9 3.4 **¶16495402**
DDA III 18 10 49 34.4 40.66N 33.06E 7 3.4
CSEM III 18 10 49 34.3–.18 40.69N 33.03E 5 2.7
ISCJB III 18 10 49 34.1–.62 40.69N–.03 33.00E–.04 2–6 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 18 11 48 39.4–1.2 37.25N–.04 28.25E–.05 6–12 20 0-1
DDA III 18 11 48 38.6 37.27N 28.30E 7 **¶601582577**
CSEM III 18 11 48 39.2–.29 37.27N 28.29E 2 2.5
ISCJB III 18 11 48 39.1–1.3 37.26N–.05 28.26E–.06 8–19 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 18 12 02 43.0–1.3 41.00N–.05 30.54E–.03 3–13 33 0-2
DDA III 18 12 02 42.6 41.05N 30.64E 7 **¶16495405**
CSEM III 18 12 02 43.4–.22 40.97N 30.56E 5 2.5
ISK III 18 12 02 43.4 40.93N 30.54E 9 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.0km az=34.0.
ISC III 18 12 32 41.6–1.4 38.40N–.03 37.71E–.03 5–12 34 0-2
DDA III 18 12 32 40.7 38.33N 37.64E 7 **¶16495409**
CSEM III 18 12 32 41.3–.10 38.39N 37.71E 5 2.6
ISK III 18 12 32 41.2 38.40N 37.70E 6 2.5
ISCJB III 18 12 32 41.5–.90 38.35N–.03 37.68E–.04 4–7 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISK III 18 12 42 54.7 38.09N 32.66E 18 2.3
CSEM III 18 12 42 54.7 38.09N 32.66E 18 2.3 **¶16495412**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 18 16 05 05.0–.95 37.02N–.02 35.84E–.02 19–2 114 0-4
DDA III 18 16 05 04.1 37.02N 35.81E 30 **¶16495420**
ISK III 18 16 05 04.6 37.02N 35.91E 10 3.2
IASPE III 18 16 05 04.8–.98 37.03N–.02 35.83E–.03 19–2 3.2
NSSC III 18 16 05 05.1–2.9 36.97N 35.84E 4–13 3.1L
CSEM III 18 16 05 05.3–.14 37.01N 35.89E 12 3.2
ISCJB III 18 16 05 05.5–.30 37.01N–.02 35.84E–.02 18–3 3.2
ISC Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 18 16 16 15.7–1.1 38.99N–.03 42.30E–.03 12–10 32 0-1
CSEM III 18 16 16 15.1–.36 38.99N 42.29E 10 2.4 **¶16495421**
ISK III 18 16 16 15.9 39.01N 42.33E 16 2.9
DDA III 18 16 16 15.9 39.01N 42.28E 7 2.9
ISCJB III 18 16 16 15.9–.58 38.97N–.03 42.32E–.04 12–4 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 19 01 49 07.3–.89 39.50N–.02 26.37E–.03 16–7 61 0-2
ISK III 19 01 49 06.9 39.50N 26.36E 15 2.8 **¶16495433**
CSEM III 19 01 49 07.4–.09 39.48N 26.40E 12 1.4L
DDA III 19 01 49 07.1 39.52N 26.40E 7 1.4L
ISCJB III 19 01 49 07.4–.54 39.51N–.02 26.41E–.04 8–4 1.4L
ATH III 19 01 49 08.2 39.51N 26.34E 4–4 1.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=129.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=9.5.
ATH Event type ke. Error ellipse: s-maj=4.8km s-min=0.9km az=273.0. Analyst: M.Ziazia ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 19 08 34 12.8–1.2 37.14N–.04 28.07E–.04 4–12 26 0-1
DDA III 19 08 34 12.7 37.23N 28.24E 7 **¶16495441**
CSEM III 19 08 34 13.7–.26 37.21N 28.24E 10 2.7
ISK III 19 08 34 13.8 37.17N 28.23E 11 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=4.4km az=49.0.
ISC III 19 09 18 22.0–1.1 36.90N–.03 29.29E–.02 3–10 57 0-2
DDA III 19 09 18 21.1 36.93N 29.30E 7 **¶16495442**
CSEM III 19 09 18 21.9–.25 36.90N 29.31E 2 2.8
ISK III 19 09 18 22.8 36.87N 29.23E 12 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=163.0.
ISK III 19 10 07 21.9 37.14N 27.90E 5 2.4
¶16495444
ISC III 19 11 11 37.6–1.4 37.55N–.04 35.72E–.05 12–10 26 0-1
ISCJB III 19 11 11 37.8–.97 37.66N–.05 35.74E–.05 11–6 **¶16495447**
CSEM III 19 11 11 38.4–.29 37.63N 35.74E 10 2.6
ISK III 19 11 11 38.0 37.64N 35.75E 11 2.6
DDA III 19 11 11 47.6 37.43N 36.38E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.1km az=177.1.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.4km az=17.0.
ISC III 19 17 17 16.3–1.4 38.23N–.02 39.40E–.03 9–12 32 0-12
CSEM III 19 17 17 16.5–.17 38.22N 39.40E 10 2.8 **¶16495452**
DDA III 19 17 17 16.4 38.19N 39.39E 7 2.8
ISCJB III 19 17 17 16.6–.52 38.23N–.03 39.37E–.04 11–6 2.8
ISK III 19 17 17 16.0 38.24N 39.32E 21 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=138.1.
ISC III 19 19 03 14.1–1.2 37.76N–.02 37.75E–.02 2–10 136 0-5
NSSC III 19 19 03 07.5–2.1 38.28N 37.81E 0–34 3.8L **¶16495454**
ISK III 19 19 03 13.3 37.78N 37.70E 5 3.8L
CSEM III 19 19 03 14.8–.14 37.76N 37.73E 2 3.8L
DDA III 19 19 03 14.3 37.79N 37.75E 7 3.8L
ISC Event type ke.
NSSC Error ellipse: s-maj=54.1km s-min=11.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=119.0.
ISC III 19 19 10 38.8–1.1 38.49N–.04 31.44E–.03 13–11 22 0-2
CSEM III 19 19 10 38.6 38.51N 31.46E 7 2.7 **¶601582625**
DDA III 19 19 10 38.6 38.51N 31.46E 7 2.7
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC III 19 20 21 25.9–1.1 37.47N–.04 35.55E–.03 6–9 30 0-2
ISK III 19 20 21 25.1 37.49N 35.54E 6 2.5 **¶16495455**
CSEM III 19 20 21 26.0–.22 37.46N 35.56E 8 2.5
DDA III 19 20 21 26.7 38.10N 36.30E 47 2.5
ISCJB III 19 20 21 26.1–.72 37.47N–.05 35.53E–.03 2–8 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 19 23 19 14.1–1.1 37.16N–.02 28.82E–.02 6–10 38 0-1
DDA III 19 23 19 13.9 37.15N 28.81E 7 **¶16495457**
CSEM III 19 23 19 14.4–.19 37.16N 28.80E 5 2.7
ISK III 19 23 19 14.6 37.11N 28.78E 11 2.7
ISCJB III 19 23 19 14.5–.65 37.15N–.05 28.79E–.04 5–9 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
DDA III 20 00 29 51.5 38.54N 28.34E 7
CSEM III 20 00 29 51.5 38.54N 28.34E 7 2.5 **¶601582640**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 20 02 54 30.1–.97 37.23N–.03 36.38E–.03 12–9 35 0-2
ISK III 20 02 54 29.8 37.22N 36.38E 6 2.8 **¶16495460**
CSEM III 20 02 54 30.7–.15 37.20N 36.38E 2 2.7
DDA III 20 02 54 30.4 37.22N 36.41E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=101.0.
ISC III 20 05 29 59.8–1.0 36.34N–.02 34.79E–.02 16–9 140 1-7
NIC III 20 05 29 57.8–.10 36.72N 34.67E 25 4.3b,4.1L **¶16340093**
ISK III 20 05 29 58.2 36.25N 34.81E 14 3.4L,4.1L
CSEM III 20 05 29 59.6–.16 36.33N 34.78E 10 3.2,4.1L
DDA III 20 05 30 00.5 36.38N 34.83E 7 3.2,4.1L
GII III 20 05 30 05.2–.00 36.01N 34.62E 17–0 2.9,4.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=87.0.
GII Event type ke.
ISK III 20 08 11 27.3 38.05N 27.58E 29 2.3
¶16495466
ISC III 20 08 21 13.5–1.2 37.24N–.04 28.28E–.04 15–9 24 0-1
DDA III 20 08 21 10.0 37.35N 28.53E 25 **¶16495467**
ISCJB III 20 08 21 13.6–.69 37.23N–.06 28.26E–.06 14–7
CSEM III 20 08 21 13.8–.12 37.24N 28.26E 15 2.8
ISK III 20 08 21 13.4 37.24N 28.25E 14 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=6.8km az=29.3.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=42.0.
ISC III 20 10 31 30.3–1.1 37.30N–.05 28.27E–.05 11–11 22 0-1
CSEM III 20 10 31 30.8–.21 37.28N 28.28E 10 2.6 **¶16495469**
ISK III 20 10 31 30.4 37.28N 28.23E 8 2.6
DDA III 20 10 31 31.1 37.22N 28.13E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.3km az=50.0.
ISC III 20 11 57 14.8–1.1 36.90N–.02 29.38E–.02 3–10 88 0-3
ATH III 20 11 57 14.4 36.95N 29.32E 13–3 2.6L **¶16495472**
CSEM III 20 11 57 15.8–.14 36.89N 29.35E 10 3.0
ISK III 20 11 57 15.0 36.91N 29.31E 8 3.0
DDA III 20 11 57 15.7 36.95N 29.33E 22 3.0
ISCJB III 20 11 57 15.4–.46 36.90N–.02 29.33E–.03 3–5 3.0
ISC Event type ke.
ATH Event type ke. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 20 14 25 29.9–1.0 39.00N–.07 40.54E–.04 24–6 20 0-2
ISK III 20 14 25 28.3 39.19N 40.54E 20 2.6 **¶16495477**
CSEM III 20 14 25 29.4–.52 39.09N 40.53E 16–2 2.6
DDA III 20 14 25 30.7 39.01N 40.47E 7 2.6
ISCJB III 20 14 25 31.0–.82 39.01N–.09 40.51E–.04 18–7 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 20 17 54 54.4–1.2 39.28N–.02 40.63E–.03 1–11 39 0-2
ISK III 20 17 54 54.8 39.32N 40.66E 5 2.8 **¶16495479**
CSEM III 20 17 54 55.1–.32 39.31N 40.61E 2 2.6
DDA III 20 17 54 55.0 39.36N 40.61E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.8km az=116.0.
ISC III 20 19 41 52.4–1.2 38.45N–.04 41.29E–.04 13–8 35 0-2
DDA III 20 19 41 52.5 38.44N 41.28E 7 **¶16495480**
CSEM III 20 19 41 53.3–.30 38.42N 41.28E 15 2.7
ISCJB III 20 19 41 53.4–.60 38.43N–.03 41.26E–.04 10–5 2.7
ISK III 20 19 41 53.6 38.40N 41.23E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.8km az=41.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=146.1.
ISC III 20 20 56 00.8–.79 40.44N–.02 29.12E–.01 9–5 102 0-3
IASPE III 20 20 56 00.8–.80 40.43N–.02 29.13E–.02 9–5 **¶16495482**
ISK III 20 20 56 00.5 40.46N 29.12E 6 3.0
DDA III 20 20 56 00.1 40.42N 29.13E 9 3.0
CSEM III 20 20 56 00.8–.12 40.44N 29.12E 8 3.0
ISCJB III 20 20 56 00.6–.30 40.45N–.02 29.12E–.02 5–3 3.0
ISC Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bond˚¡r and McLaughlin (2009) selection criteria. Bond˚¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 20 22 43 11.1–1.0 37.79N–.02 39.73E–.02 7–9 87 0-3
ISCJB III 20 22 43 11.0–.57 37.83N–.02 39.72E–.02 4–4 **¶16495484**
DDA III 20 22 43 10.7 37.83N 39.73E 7
CSEM III 20 22 43 11.2–.20 37.87N 39.73E 2 3.1
ISK III 20 22 43 11.0 37.84N 39.75E 8 3.4
NSSC III 20 22 43 13.7–4.8 37.57N 39.62E 100–60 2.7L,1.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=174.3.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=3.0.
NSSC Error ellipse: s-maj=30.9km s-min=26.3km az=-1.0.
ISC III 21 00 05 41.0–1.2 36.90N–.02 29.36E–.02 0–10 95 0-5
ATH III 21 00 05 40.8 36.95N 29.29E 12–2 2.4L **¶16495485**
ISK III 21 00 05 40.3 36.90N 29.30E 5 3.1
CSEM III 21 00 05 41.7–.23 36.88N 29.39E 10 3.1
ISCJB III 21 00 05 41.2–.54 36.87N–.02 29.34E–.03 2–4 3.1
DDA III 21 00 05 41.2 36.92N 29.35E 7 3.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=2.0km az=101.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=144.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=137.7.
ISC III 21 00 26 56.9–1.1 38.95N–.02 27.94E–.03 4–10 38 0-2
ISK III 21 00 26 56.0 38.95N 27.96E 10 2.6 **¶16495487**
DDA III 21 00 26 56.9 38.92N 27.93E 7 2.6
CSEM III 21 00 26 57.0–.20 38.92N 27.94E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=120.0.
ISC III 21 01 04 17.2–1.1 36.92N–.03 29.37E–.03 7–11 39 0-2
ISK III 21 01 04 16.5 36.91N 29.37E 9 2.9 **¶16495489**
ISCJB III 21 01 04 17.5–.60 36.89N–.04 29.34E–.04 6–7 2.9
CSEM III 21 01 04 17.3–.22 36.89N 29.37E 8 2.9
DDA III 21 01 04 17.0 36.90N 29.33E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.6km az=149.8.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=140.0.
ISC III 21 01 33 25.0–1.1 37.85N–.02 27.52E–.02 4–11 42 0-2
ISK III 21 01 33 25.8 37.91N 27.45E 10 2.7 **¶16495490**
DDA III 21 01 33 25.8 37.86N 27.42E 7 2.7
ISCJB III 21 01 33 25.9–.47 37.87N–.03 27.45E–.03 9–4 2.7
CSEM III 21 01 33 26.0–.23 37.87N 27.46E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=137.4.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=80.0.
DDA III 21 06 22 05.7 39.00N 41.60E 7
¶602442551
DDA III 21 06 33 29.7 38.05N 27.96E 7
CSEM III 21 06 33 29.7 38.05N 27.96E 7 2.5 **¶601582673**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 21 08 37 25.7–.89 37.71N–.02 27.53E–.02 10–8 94 0-2
CSEM III 21 08 37 25.7–.14 37.71N 27.54E 5 2.8 **¶16495491**
THE III 21 08 37 25.3 37.68N 27.52E 3–3 2.8L
ISK III 21 08 37 25.8 37.73N 27.56E 7 2.9
DDA III 21 08 37 25.1 37.69N 27.54E 4 2.9
ISCJB III 21 08 37 25.5–.39 37.70N–.02 27.54E–.02 4–4 2.9
ISC Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC III 21 10 10 38.7–1.0 39.57N–.02 33.25E–.02 4–9 56 0-2
ISK III 21 10 10 37.4 39.58N 33.27E 5 3.0 **¶16495493**
CSEM III 21 10 10 38.3–.18 39.57N 33.26E 0–1 3.1L
DDA III 21 10 10 39.0 39.58N 33.26E 7 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=154.0.
ISC III 21 11 54 33.5–1.1 39.89N–.03 33.03E–.03 20–5 39 0-2
DDA III 21 11 54 29.8 40.03N 32.96E 7 **¶16495500**
CSEM III 21 11 54 32.7–.41 39.94N 32.98E 2 2.8
ISK III 21 11 54 33.5 39.88N 33.00E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=6.0km az=132.0.
ISC III 21 13 13 45.6–1.1 37.06N–.02 27.93E–.02 11–9 59 0-2
ATH III 21 13 13 45.9 37.05N 27.94E 33–6 2.6L **¶16495501**
ISK III 21 13 13 45.7 37.07N 27.90E 9 2.8
CSEM III 21 13 13 46.2–.10 37.05N 27.91E 12 2.8
THE III 21 13 13 46.1 37.04N 27.90E 7–2 2.9L
ISCJB III 21 13 13 46.0–.52 37.05N–.03 27.91E–.03 9–5 2.9L
ISC Event type ke.
ATH Event type ke. Analyst: McAris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC III 21 14 41 59.9–1.2 39.93N–.06 34.17E–.03 19–3 25 0-1
DDA III 21 14 41 59.0 39.97N 34.16E 7 **¶16495502**
ISCJB III 21 14 41 60.0–.74 39.93N–.05 34.18E–.05 10–7
ISK III 21 14 41 59.6 39.89N 34.17E 6 2.6
CSEM III 21 14 42 00.0–.16 39.93N 34.17E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.5km az=152.4.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.1km az=159.0.
ISC III 21 18 00 32.6–1.1 37.94N–.02 29.45E–.03 18–5 40 0-1
ISK III 21 18 00 32.8 37.94N 29.45E 11 2.8 **¶16495503**
CSEM III 21 18 00 33.1–.13 37.94N 29.45E 12 2.8
ISCJB III 21 18 00 33.0–.57 37.93N–.03 29.46E–.05 8–6 2.8
DDA III 21 18 00 33.2 37.95N 29.45E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.1km az=173.6.
ISC III 21 22 25 37.1–1.1 36.23N–.03 29.28E–.02 29–12 192 0-8
ATH III 21 22 25 37.3 36.28N 29.22E 38–2 2.9L **¶16341519**
DDA III 21 22 25 37.7 36.28N 29.26E 39 2.9L
ISK III 21 22 25 38.0 36.27N 29.25E 30 3.2L
CSEM III 21 22 25 38.0–.12 36.18N 29.27E 30 3.1
THE III 21 22 25 39.3 36.26N 29.17E 15–2 3.1L
NIC III 21 22 25 42.4–.30 36.16N 29.59E 27 3.4L
HLW III 21 22 25 43.5 35.63N 29.18E 25–8 3.3L,3.2
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=89.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=37.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=89.0.
ISC III 21 22 49 04.6–1.1 37.15N–.02 28.63E–.02 6–9 51 0-2
CSEM III 21 22 49 04.8–.19 37.13N 28.59E 10 2.9 **¶16495505**
ISK III 21 22 49 04.0 37.13N 28.63E 8 2.7
DDA III 21 22 49 04.5 37.13N 28.58E 7 2.7
ISCJB III 21 22 49 04.5–.53 37.16N–.03 28.62E–.03 1–7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 21 22 51 35.9–1.0 37.11N–.05 28.99E–.05 7 20 0-1
CSEM III 21 22 51 33.9–1.6 37.27N 28.91E 12 2.6 **¶601582690**
DDA III 21 22 51 36.5 37.06N 29.05E 7 2.6
ISCJB III 21 22 51 37.6–.66 37.01N–.05 29.08E–.05 7 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 21 23 11 15.8–.86 40.19N–.02 27.40E–.02 14–6 111 0-3
ISK III 21 23 11 15.6 40.22N 27.40E 3 2.9 **¶16495506**
CSEM III 21 23 11 16.4–.12 40.19N 27.40E 5 2.9
DDA III 21 23 11 16.1 40.17N 27.44E 12 2.9
ISCJB III 21 23 11 16.0–.44 40.17N–.02 27.39E–.02 3–4 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 21 23 55 42.6–1.1 39.12N–.02 29.10E–.02 4–12 65 0-2
ISK III 21 23 55 41.8 39.11N 29.10E 6 2.9 **¶16495509**
DDA III 21 23 55 42.0 39.11N 29.08E 7 2.9
CSEM III 21 23 55 42.3–.08 39.12N 29.10E 5 2.5
ISCJB III 21 23 55 42.0–.45 39.12N–.03 29.09E–.03 3–5 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 22 00 44 15.6–1.1 37.17N–.02 36.25E–.02 7–8 3.7b 187 0-78
ISN III 22 00 44 02.2–1.0 37.24N 35.28E 0 3.7L **¶16341523**
NSSC III 22 00 44 12.7–1.3 37.35N 36.37E 0–7 3.8L
IDC III 22 00 44 13.9–.99 37.21N 36.19E 0 3.6,3.5
DDA III 22 00 44 13.5 37.10N 36.25E 20 3.6,3.5
ISK III 22 00 44 15.0 37.17N 36.18E 5 3.7L,3.5
ISCJB III 22 00 44 15.3–.51 37.17N–.02 36.22E–.02 0–4 3.6b,3.2s
NIC III 22 00 44 16.6–.50 37.62N 35.82E 11 4.4b,4.0L
CSEM III 22 00 44 16.4–.14 37.16N 36.18E 2 3.7L,4.0L
ISC Event type ke.
ISN Error ellipse: s-maj=1.5km s-min=20.4km az=-1.0.
NSSC Error ellipse: s-maj=10.4km s-min=14.0km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=13.8km az=83.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=106.0.
ISC III 22 02 20 33.5–.89 39.45N–.03 33.02E–.03 12–5 38 0-2
ISK III 22 02 20 32.3 39.44N 32.95E 5 2.4 **¶16495510**
CSEM III 22 02 20 33.4–.24 39.47N 33.02E 8 2.4
ISCJB III 22 02 20 33.8–.63 39.46N–.04 33.03E–.05 8–3 2.4
DDA III 22 02 20 34.1 39.41N 33.11E 4 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=143.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=135.1.
ISC III 22 03 46 33.2–1.5 36.36N–.04 35.55E–.06 8–11 28 1-2
CSEM III 22 03 46 32.7–.22 36.35N 35.51E 2 1.7L **¶16495512**

ISK III 22 03 46 34.1 36.45N 35.63E 6 2.4
DDA III 22 03 46 39.3 36.32N 36.20E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.3km az=55.0.
ISC III 22 04 00 33.6–1.3 38.78N–.03 42.59E–.04 9–12 35 0-2
CSEM III 22 04 00 34.3–.19 38.78N 42.63E 2 2.7 ¶16495513
DDA III 22 04 00 34.6 38.80N 42.66E 7 2.7
ISK III 22 04 00 35.3 38.83N 42.78E 5 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=92.0.
ISC III 22 08 51 36.1–1.3 37.59N–.05 41.57E–.03 6–11 33 0-2
DDA III 22 08 51 36.2 37.60N 41.64E 7 ¶16495518
ISCJB III 22 08 51 36.1–.96 37.56N–.05 41.58E–.04 2–8
CSEM III 22 08 51 36.1–.31 37.54N 41.58E 8 2.7
ISK III 22 08 51 38.8 37.69N 41.35E 15 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.4km az=163.2.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.2km az=177.0.
DDA III 22 09 28 52.4 39.65N 29.55E 7
CSEM III 22 09 28 48.0–.50 39.50N 28.66E 10 2.3 ¶601582700
CSEM Event type ke. Error ellipse: s-maj=15.8km s-min=8.9km az=41.0.
ISK III 22 12 07 46.8 38.50N 31.58E 6 2.7
¶16495530
ISC III 22 13 45 22.3–1.4 40.70N–.04 34.95E–.05 5–13 26 0-1
CSEM III 22 13 45 23.4–.20 40.72N 34.94E 15 2.7 ¶601582701
DDA III 22 13 45 23.2 40.72N 34.93E 7 2.7
ISCJB III 22 13 45 23.1–.83 40.75N–.04 34.92E–.06 7–7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 22 22 22 04.3–.94 37.88N–.02 27.21E–.02 8–10 59 0-3
DDA III 22 22 22 03.8 37.87N 27.22E 7 ¶16495550
CSEM III 22 22 22 04.4–.13 37.88N 27.25E 2 2.5
ISK III 22 22 22 04.0 37.90N 27.24E 4 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=59.0.
ISK III 22 23 08 14.6 39.40N 28.96E 5 2.8L
CSEM III 22 23 08 14.6 39.40N 28.96E 5 2.8L ¶16495551
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 23 05 52 50.0–1.2 37.14N–.02 29.03E–.02 0–12 41 0-1
ISK III 23 05 52 49.7 37.13N 29.01E 6 2.6 ¶16495559
CSEM III 23 05 52 50.4–.20 37.12N 29.03E 10 3.0
DDA III 23 05 52 51.0 37.16N 28.96E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.4km az=172.0.
ISC III 23 06 32 03.8–.90 39.64N–.02 27.90E–.02 10–6 62 0-2
CSEM III 23 06 32 03.7–.08 39.63N 27.90E 8 2.7 ¶16495561
ISK III 23 06 32 03.4 39.64N 27.92E 9 2.7
DDA III 23 06 32 03.5 39.64N 27.88E 7 2.7
ISCJB III 23 06 32 03.5–.48 39.65N–.03 27.88E–.04 6–4 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 23 08 12 22.2–1.2 37.53N–.05 41.67E–.02 12–10 38 0-2
ISK III 23 08 12 21.9 37.54N 41.70E 13 2.5 ¶16495562
CSEM III 23 08 12 22.9–.40 37.56N 41.65E 10 2.7L
DDA III 23 08 12 27.2 37.82N 41.33E 8 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=5.7km az=7.0.
ISC III 23 08 16 31.0–1.5 38.98N–.03 42.31E–.02 7–12 33 0-1
CSEM III 23 08 16 31.9–.31 38.99N 42.31E 18–3 2.9L ¶16495563
ISK III 23 08 16 32.0 39.02N 42.31E 17 2.6
DDA III 23 08 16 33.2 39.01N 42.14E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=27.0.
DDA III 23 10 19 36.2 38.87N 27.22E 7
¶602442608
ISC III 23 10 35 10.5–1.2 39.84N–.03 40.25E–.03 3–11 47 0-3
ISK III 23 10 35 09.9 39.87N 40.26E 5 2.7 ¶16495567
CSEM III 23 10 35 10.3–.26 39.85N 40.26E 2 3.0
DDA III 23 10 35 10.2 39.86N 40.24E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=5.0km az=128.0.
DDA III 23 15 25 43.9 38.04N 38.24E 6
¶602442613
ISC III 23 15 29 02.9–1.2 37.89N–.03 32.25E–.02 1–11 56 0-3
DDA III 23 15 29 01.9 37.87N 32.37E 7 ¶16495577
ISK III 23 15 29 02.5 37.92N 32.24E 8 3.1
CSEM III 23 15 29 03.4–.20 37.91N 32.30E 8 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.5km az=5.0.
ISC III 23 18 29 16.2–1.1 40.57N–.03 34.36E–.03 17–10 36 0-2
ISK III 23 18 29 14.9 40.59N 34.33E 5 2.7 ¶16495581
CSEM III 23 18 29 16.3–.17 40.60N 34.35E 5 2.7
DDA III 23 18 29 16.2 40.58N 34.36E 7 2.7
ISCJB III 23 18 29 16.6–.66 40.58N–.03 34.35E–.04 5–7 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 23 19 02 13.2–.93 40.05N–.03 41.98E–.03 7–6 41 0-2
ISK III 23 19 02 11.4 40.10N 41.94E 5 2.9 ¶16495583
CSEM III 23 19 02 13.0–.29 40.04N 41.98E 10 2.9
DDA III 23 19 02 13.9 40.12N 41.94E 3 2.9
ISCJB III 23 19 02 13.3–.52 40.05N–.03 41.97E–.05 9–5 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 23 20 21 13.3–1.3 36.12N–.05 31.92E–.03 6–12 42 1-3
CSEM III 23 20 21 14.7–.21 36.11N 31.97E 10 2.9 ¶16495584
ISCJB III 23 20 21 14.7–1.8 36.11N–.05 31.97E–.04 13–12 2.9
ISK III 23 20 21 15.7 36.13N 31.90E 31 3.1
DDA III 23 20 21 38.9 36.84N 30.38E 6 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=4.4km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.6km az=25.0.
DDA III 23 22 41 44.2 39.07N 27.98E 7
CSEM III 23 22 41 44.6–.16 39.01N 28.01E 8 2.4 ¶601582733
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.1km az=160.0.
ISK III 24 01 46 29.2 40.39N 26.01E 26 2.3
CSEM III 24 01 46 29.2 40.39N 26.01E 26 2.3 ¶16495598
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISK III 24 01 46 42.2 40.55N 27.51E 3 2.4
CSEM III 24 01 46 42.2 40.55N 27.51E 3 2.4 ¶16495601
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 24 04 58 19.6–.85 38.73N–.02 43.40E–.02 14–6 3.6b 157 0-78
NSSC III 24 04 58 11.3–1.2 39.78N 42.93E 170–23 3.3L ¶16480552
NSSP III 24 04 58 14.4 38.70N 43.47E 5 3.6s
IDC III 24 04 58 16.3–1.4 38.56N 43.52E 0 3.8b,3.8
DDA III 24 04 58 17.5 38.77N 43.41E 6 3.8b,3.8
ISK III 24 04 58 18.2 38.80N 43.42E 5 3.6L,3.8
CSEM III 24 04 58 18.9–.26 38.74N 43.43E 2 3.6L,3.8
ISN III 24 04 58 35.1–1.0 37.66N 43.39E 2–3 3.5L,3.8
ISC Event type ke.
NSSC Error ellipse: s-maj=11.6km s-min=11.7km az=-1.0.
IDC Error ellipse: s-maj=23.1km s-min=10.2km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.6km az=125.0.
ISN Error ellipse: s-maj=5.6km s-min=7.0km az=-1.0.
ISK III 24 10 05 15.5 37.22N 28.24E 4 2.4
¶16495617
ISC III 24 11 09 47.7–1.4 37.12N–.05 37.26E–.05 6–14 24 0-1
DDA III 24 11 09 47.4 37.15N 37.22E 7 ¶16495620
ISCJB III 24 11 09 48.0–.66 37.14N–.03 37.23E–.05 0–11
CSEM III 24 11 09 48.3–.25 37.15N 37.27E 2 2.6
ISK III 24 11 09 48.0 37.14N 37.26E 18 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.8km az=178.3.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=161.0.
ISC III 24 12 11 02.7–1.2 37.41N–.06 38.65E–.04 9–11 23 0-2
CSEM III 24 12 10 59.5–.56 37.21N 38.50E 2 2.7 ¶16495622
ISK III 24 12 11 02.1 37.48N 38.66E 3 2.1
DDA III 24 12 11 03.1 37.40N 38.62E 7 2.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=7.8km az=169.0.
ISC III 24 13 25 34.0–1.1 37.29N–.04 37.18E–.05 4–10 14 0-1
ISK III 24 13 25 30.1 37.32N 37.30E 24 2.5 ¶16495623
DDA III 24 13 25 34.8 37.31N 37.15E 4 2.5
ISC Event type ke.
ISC III 24 16 13 13.9–.98 40.79N–.03 34.93E–.05 9 23 1-1
CSEM III 24 16 13 13.8–.36 40.78N 34.94E 10 2.9 ¶16495635
ISK III 24 16 13 13.2 40.81N 34.95E 9 2.2
ISCJB III 24 16 13 13.3–.93 40.80N–.04 35.03E–.09 9 2.2
DDA III 24 16 13 14.2 40.74N 34.96E 7 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=5.3km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.1km az=177.7.
ISC III 24 16 24 16.9–.89 38.77N–.02 43.36E–.03 16–7 58 0-3
ISK III 24 16 24 16.7 38.80N 43.40E 5 3.0L ¶16495636
DDA III 24 16 24 16.8 38.77N 43.35E 7 3.0L
CSEM III 24 16 24 17.4–.29 38.75N 43.45E 2 3.0L
NSSP III 24 16 34 13.5 38.73N 43.30E 5 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=5.2km az=109.0.
ISC III 24 16 25 19.1–1.1 37.85N–.02 27.33E–.02 3–13 81 0-3
ISK III 24 16 25 17.8 37.85N 27.32E 5 2.9 ¶16495637
DDA III 24 16 25 18.2 37.81N 27.36E 17 2.9
ISCJB III 24 16 25 18.8–.54 37.85N–.03 27.33E–.04 2–6 2.9
CSEM III 24 16 25 19.1–.13 37.84N 27.32E 2 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.8km az=148.2.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=61.0.
ISC III 24 18 27 56.6–.98 40.01N–.03 39.95E–.03 14–10 31 0-1
ISK III 24 18 27 56.5 40.01N 39.97E 8 2.7 ¶16495638
ISCJB III 24 18 27 57.0–.50 40.01N–.03 39.95E–.04 5–8 2.7
CSEM III 24 18 27 57.1–.21 40.00N 39.94E 8 2.9
DDA III 24 18 27 57.1 40.02N 39.95E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=140.1.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=161.0.
ISC III 24 18 37 49.3–1.2 37.49N–.03 38.74E–.03 0–12 41 0-3
ISK III 24 18 37 49.4 37.41N 38.74E 5 2.9 ¶16495639
ISCJB III 24 18 37 50.0–.77 37.42N–.04 38.77E–.05 4–7 2.9
CSEM III 24 18 37 50.0–.19 37.44N 38.76E 5 2.9
DDA III 24 18 37 50.0 37.42N 38.72E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=140.3.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=145.0.
ISC III 24 18 51 08.5–1.0 37.45N–.04 38.75E–.03 5–10 43 0-2
ISK III 24 18 51 07.7 37.36N 38.76E 5 3.0 ¶16495640
DDA III 24 18 51 08.0 37.44N 38.75E 7 3.0
CSEM III 24 18 51 08.5–.19 37.43N 38.78E 5 3.0
ISCJB III 24 18 51 08.4–.75 37.43N–.05 38.76E–.05 5–7 3.0
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 24 19 27 33.1–.96 39.02N–.02 29.65E–.03 8–9 42 0-2
ISK III 24 19 27 32.6 39.03N 29.64E 5 2.4 ¶16495641
ISCJB III 24 19 27 32.8–.54 39.01N–.03 29.64E–.05 4–6 2.4
CSEM III 24 19 27 33.0–.08 39.02N 29.64E 5 2.7
DDA III 24 19 27 33.0 38.99N 29.63E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=147.9.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=80.0.
ISC III 24 23 21 08.6–1.3 39.33N–.03 41.84E–.04 11–12 32 0-2
ISK III 24 23 21 07.0 39.42N 41.90E 5 2.9 ¶16495647
CSEM III 24 23 21 08.2–.29 39.41N 41.89E 5 2.9
DDA III 24 23 21 08.0 39.31N 41.95E 19 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=7.1km az=80.0.
ISC III 25 02 20 52.3–1.0 38.84N–.06 42.47E–.03 11 26 0-2
CSEM III 25 02 20 53.1–.41 38.80N 42.48E 15 2.6 ¶16495653
ISK III 25 02 20 53.3 38.84N 42.53E 16 2.6
DDA III 25 02 20 55.4 38.56N 42.45E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=6.4km az=7.0.
ISC III 25 03 17 34.0–1.5 36.78N–.04 31.20E–.03 3–12 44 1-4
ISK III 25 03 17 35.3 36.74N 31.18E 26 2.9 ¶16495655
DDA III 25 03 17 36.1 36.75N 31.24E 50 2.9
CSEM III 25 03 17 37.0–.19 36.76N 31.23E 30 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=14.0.
ISC III 25 05 22 30.9–1.0 38.27N–.04 27.28E–.03 9–9 24 0-2
ISK III 25 05 22 30.5 38.27N 27.26E 5 2.3 ¶16495658
ISCJB III 25 05 22 30.9–.60 38.29N–.04 27.30E–.05 7–9 2.3
CSEM III 25 05 22 31.2–.11 38.30N 27.31E 8 2.3
DDA III 25 05 22 34.0 38.17N 27.13E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.3km az=148.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=60.0.
ISC III 25 08 30 21.7–1.1 37.90N–.02 27.39E–.02 6–10 70 0-3
ISK III 25 08 30 22.1 37.88N 27.39E 5 2.8 ¶16495659
CSEM III 25 08 30 23.7–.17 37.88N 27.36E 10 2.8
ISCJB III 25 08 30 23.0–.48 37.88N–.02 27.35E–.03 5–4 2.8
ATH III 25 08 30 23.0 37.90N 27.28E 16–1 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=76.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=169.3.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.3km az=253.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 25 11 31 20.3–1.1 37.11N–.04 27.95E–.03 24–11 24 0-1
ISK III 25 11 31 19.6 37.09N 27.93E 19 2.4 ¶16495664
CSEM III 25 11 31 20.3–.11 37.10N 27.95E 20 2.4
ISCJB III 25 11 31 20.4–1.2 37.11N–.05 27.95E–.04 24–17 2.4
DDA III 25 11 31 21.9 37.18N 27.89E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=11.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.3km az=8.3.
ISC III 25 13 05 34.2–1.2 36.35N–.05 33.52E–.04 7–12 22 0-1
DDA III 25 13 05 33.8 36.35N 33.53E 7 ¶601582761
CSEM III 25 13 05 34.2–.38 36.33N 33.54E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=6.7km az=162.0.
ISK III 25 15 04 25.0 39.71N 28.81E 10 2.3
CSEM III 25 15 04 25.0 39.71N 28.81E 10 2.3 ¶16495668
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 25 16 30 29.4–1.0 37.23N–.04 28.26E–.04 13–7 22 0-1
DDA III 25 16 30 29.9 37.23N 28.18E 7 ¶16495671
CSEM III 25 16 30 29.8–.21 37.24N 28.25E 10 2.7
ISK III 25 16 30 29.5 37.25N 28.27E 3 2.5
ISCJB III 25 16 30 29.4–.72 37.24N–.05 28.25E–.07 13–5 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.

ISCJB Event type ke.
ISC III 25 18 05 29.9–1.1 36.98N–.02 29.45E–.02 3–10 115 0-4
ATH III 25 18 05 28.2 37.06N 29.51E 13–5 2.7L ¶16495673
CSEM III 25 18 05 29.7–.11 36.96N 29.46E 2 3.5L
ISCJB III 25 18 05 29.7–.47 36.96N–.02 29.46E–.03 7–4 3.5L
ISK III 25 18 05 29.4 36.97N 29.45E 9 3.3
DDA III 25 18 05 30.6 37.04N 29.40E 21 3.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.5km az=190.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=136.6.
ISC III 25 20 19 09.4–.95 36.18N–.02 35.99E–.02 13–8 65 0-2
ISK III 25 20 19 08.1 36.12N 36.01E 10 2.6 ¶16495675
CSEM III 25 20 19 09.9–.21 36.18N 35.97E 12 3.0
NSSC III 25 20 19 10.1–.70 36.22N 35.97E 15–2 2.2L,1.0
DDA III 25 20 19 10.6 36.23N 36.05E 7 2.2L,1.0
ISCJB III 25 20 19 10.1–.44 36.19N–.02 35.96E–.03 11–3 2.2L,1.0
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 25 20 34 07.0–1.0 40.65N–.03 27.46E–.02 6–12 36 0-2
ISK III 25 20 34 05.8 40.62N 27.44E 3 2.6 ¶16495676
CSEM III 25 20 34 06.8–.19 40.66N 27.48E 2 2.6
DDA III 25 20 34 06.3 40.67N 27.51E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=18.0.
ISC III 26 00 48 39.2–1.3 36.95N–.03 29.35E–.04 6–11 28 0-1
ISK III 26 00 48 38.8 36.99N 29.33E 9 2.3 ¶16495680
CSEM III 26 00 48 40.4–.23 36.99N 29.27E 2 2.8
DDA III 26 00 48 41.0 37.01N 29.32E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=148.0.
ISC III 26 07 42 43.3–1.0 37.18N–.05 28.26E–.05 23–8 23 0-1
ISK III 26 07 42 42.6 37.14N 28.31E 28 2.5 ¶16495687
CSEM III 26 07 42 43.3–.39 37.19N 28.31E 30 2.5
DDA III 26 07 42 44.9 36.85N 27.70E 8 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.9km s-min=8.3km az=45.0.
ISC III 26 09 51 56.8–.98 37.16N–.04 27.93E–.03 12 23 0-2
ISK III 26 09 51 56.5 37.14N 27.90E 16 2.3 ¶16495694
ISCJB III 26 09 51 56.8–.65 37.13N–.05 27.92E–.04 12 2.3
CSEM III 26 09 51 57.6–.27 37.16N 27.89E 2 2.8
DDA III 26 09 51 57.4 37.16N 27.89E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=3.8.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.4km az=9.0.
ISC III 26 13 26 08.3–1.1 37.10N–.04 27.96E–.04 12 20 0-1
ISK III 26 13 26 07.1 37.06N 27.96E 5 2.5 ¶16495707
CSEM III 26 13 26 08.7–.25 37.07N 27.95E 2 2.5
ISCJB III 26 13 26 08.1–.76 37.07N–.05 27.95E–.06 12 2.5
DDA III 26 13 26 10.3 37.27N 28.22E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.2km az=135.9.
ISC III 26 18 34 44.6–1.1 37.29N–.03 36.96E–.03 6–10 25 0-1
ISK III 26 18 34 43.0 37.46N 37.18E 8 2.3 ¶16495714
DDA III 26 18 34 43.6 37.24N 36.97E 7 2.3
CSEM III 26 18 34 45.3–.48 37.30N 37.01E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=9.9km az=56.0.
ISC III 26 22 25 12.9–.92 37.30N–.02 30.58E–.03 10–7 48 0-2
DDA III 26 22 25 11.9 37.26N 30.62E 7 ¶16495715
CSEM III 26 22 25 12.6–.17 37.30N 30.52E 2 2.8
ISK III 26 22 25 12.1 37.27N 30.59E 9 2.8
ISCJB III 26 22 25 12.5–.63 37.26N–.03 30.56E–.04 0–6 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 26 22 55 12.2–1.4 40.54N–.03 42.46E–.03 4–12 28 0-1
ISK III 26 22 55 10.4 40.61N 42.46E 5 2.5 ¶16495717
CSEM III 26 22 55 11.9–.39 40.51N 42.48E 10 2.6
DDA III 26 22 55 17.1 40.54N 41.90E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=7.2km az=44.0.
ISC III 27 05 17 18.0–1.1 39.40N–.02 34.91E–.02 7–10 46 0-2
DDA III 27 05 17 17.0 39.40N 34.93E 7 ¶16495722
CSEM III 27 05 17 17.6–.15 39.40N 34.91E 5 2.8
ISK III 27 05 17 17.3 39.41N 34.89E 8 2.8
ISCJB III 27 05 17 17.5–.53 39.40N–.03 34.91E–.03 3–6 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISK III 27 07 17 15.3 37.26N 28.18E 5 2.4
¶16495723
ISC III 27 08 37 39.0–.84 40.42N–.02 29.57E–.02 12–5 62 0-2
ISK III 27 08 37 38.7 40.43N 29.55E 6 2.5 ¶16495726
ISCJB III 27 08 37 38.8–.40 40.43N–.03 29.53E–.03 5–4 2.5
CSEM III 27 08 37 39.0–.11 40.42N 29.54E 8 2.5
DDA III 27 08 37 39.1 40.33N 29.57E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=135.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=128.0.
ISC III 27 09 56 22.7–.97 37.25N–.04 28.24E–.04 14–7 24 0-1
ISK III 27 09 56 22.8 37.25N 28.19E 5 2.6 ¶16495729
CSEM III 27 09 56 23.3–.16 37.25N 28.22E 10 2.6
DDA III 27 09 56 23.5 37.23N 28.22E 7 2.6
ISCJB III 27 09 56 23.1–.78 37.25N–.05 28.23E–.08 10–9 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 27 14 07 32.1–.00 39.15N–.03 32.71E–.03 9–8 49 0-2
ISK III 27 14 07 31.1 39.16N 32.70E 3 2.7 ¶16495737
DDA III 27 14 07 31.7 39.12N 32.76E 15 2.7
CSEM III 27 14 07 32.0–.23 39.16N 32.69E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=130.0.
ISC III 27 14 50 56.9–1.1 36.97N–.02 29.30E–.02 4–10 81 0-4
ISK III 27 14 50 56.9 36.97N 29.24E 10 2.8 ¶16495739
CSEM III 27 14 50 57.6–.16 37.00N 29.25E 5 2.8
ATH III 27 14 50 57.3 37.04N 29.23E 20–2 2.3L
ISCJB III 27 14 50 57.6–.49 37.00N–.02 29.22E–.03 2–4 2.3L
DDA III 27 14 50 58.0 37.01N 29.21E 7 2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=143.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.5km az=162.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=41.4.
ISC III 27 15 24 55.3–.88 40.69N–.03 39.92E–.04 8 26 0-1
ISCJB III 27 15 24 55.9–.60 40.71N–.03 39.91E–.05 8 ¶16495740
DDA III 27 15 24 55.2 40.69N 39.93E 7
CSEM III 27 15 24 55.8–.22 40.71N 39.91E 10 2.6
ISK III 27 15 24 55.9 40.67N 39.83E 8 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.8km az=159.6.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.8km az=163.0.
ISC III 27 19 18 55.5–1.3 37.04N–.04 28.53E–.04 21–1 25 0-2
CSEM III 27 19 18 55.9–.26 37.08N 28.53E 10 2.6 ¶16495743
ISK III 27 19 18 55.0 37.08N 28.57E 5 2.6
DDA III 27 19 18 55.4 37.07N 28.50E 7 2.6
ISCJB III 27 19 18 55.6–.62 37.06N–.07 28.52E–.07 13–10 2.6

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 28 02 49 26.8–1.3 39.80N–.03 39.00E–.02 3–14 37 0-2
ISK III 28 02 49 26.7 39.84N 38.95E 9 2.7 ¶16495749
ISCJB III 28 02 49 27.7–.53 39.81N–.03 38.98E–.04 6–6 2.7
DDA III 28 02 49 28.0 39.80N 38.99E 7 2.7
CSEM III 28 02 49 27.7–.25 39.82N 38.99E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=140.1.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.8km az=114.0.
ISC III 28 04 01 23.3–1.0 38.86N–.03 27.53E–.02 7–8 46 0-2
ISK III 28 04 01 22.5 38.89N 27.53E 5 2.6 ¶16495753
CSEM III 28 04 01 23.5–.16 38.85N 27.53E 2 2.9
DDA III 28 04 01 23.8 38.83N 27.56E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=10.0.
ISC III 28 05 10 34.4–1.1 37.41N–.03 38.60E–.02 2–10 36 0-2
CSEM III 28 05 10 34.8–.21 37.43N 38.62E 2 2.5 ¶16495756
DDA III 28 05 10 34.9 37.46N 38.53E 5 2.5
ISCJB III 28 05 10 34.8–.70 37.43N–.04 38.62E–.03 1–7 2.5
ISK III 28 05 10 36.0 37.52N 38.74E 6 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.4km az=169.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.0km az=172.6.
ISC III 28 08 19 46.1–1.0 39.56N–.02 40.18E–.02 15–9 47 0-2
ISK III 28 08 19 45.2 39.57N 40.18E 18 2.8 ¶16495761
CSEM III 28 08 19 46.1–.27 39.56N 40.18E 2 2.8
DDA III 28 08 19 46.3 39.59N 40.17E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=5.0km az=122.0.
ISC III 28 08 54 45.4–1.1 37.24N–.03 28.16E–.03 4–10 38 0-2
ISK III 28 08 54 44.5 37.24N 28.20E 4 2.5 ¶16495762
CSEM III 28 08 54 45.6–.26 37.24N 28.19E 2 2.5
DDA III 28 08 54 45.0 37.25N 28.04E 6 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=29.0.
ISC III 28 10 18 47.5–1.2 39.96N–.02 33.66E–.03 10–10 40 1-2
CSEM III 28 10 18 47.6–.24 39.99N 33.60E 2 2.8 ¶16495765
DDA III 28 10 18 47.3 40.00N 33.55E 7 2.8
ISK III 28 10 18 47.8 39.94N 33.68E 8 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=102.0.
ISK III 28 14 01 16.0 38.57N 35.12E 25 2.7
CSEM III 28 14 01 16.0 38.57N 35.12E 25 2.7 ¶16495775
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 28 14 10 27.5–1.1 38.87N–.05 37.02E–.04 10–10 23 0-2
ISK III 28 14 10 26.0 38.90N 37.05E 5 2.5 ¶16495776
CSEM III 28 14 10 27.0–.23 38.88N 37.04E 2 2.6
ISCJB III 28 14 10 27.1–.78 38.89N–.05 36.99E–.07 10–7 2.6
DDA III 28 14 10 32.9 38.67N 37.32E 14 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=6.1km az=139.6.
ISC III 28 15 38 57.2–1.4 39.04N–.03 42.35E–.03 14–12 28 1-2
CSEM III 28 15 38 56.0–.23 39.11N 42.27E 10 2.7 ¶16495777
ISK III 28 15 38 56.2 39.02N 42.36E 8 2.8
ISCJB III 28 15 38 57.4–.97 39.05N–.03 42.36E–.04 5–8 2.8
DDA III 28 15 38 58.5 39.10N 42.46E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.9km az=6.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.9km az=29.0.
ISC III 28 15 41 01.1–1.3 38.80N–.03 40.12E–.03 3–11 31 0-2
DDA III 28 15 41 03.6 38.71N 40.19E 7 ¶16495778
ISCJB III 28 15 41 03.5–.53 38.72N–.03 40.21E–.03 10–10
ISK III 28 15 41 03.0 38.72N 40.22E 11 2.7
CSEM III 28 15 41 04.3–.38 38.70N 40.14E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=177.7.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=7.3km az=54.0.
ISC III 28 16 02 12.1–1.0 36.96N–.03 29.25E–.02 6–9 43 0-2
CSEM III 28 16 02 12.8–.21 36.98N 29.23E 2 2.6 ¶16495779
ISK III 28 16 02 12.4 36.93N 29.21E 6 2.6
DDA III 28 16 02 12.8 37.04N 29.19E 7 2.6
ISCJB III 28 16 02 12.7–.56 36.98N–.04 29.21E–.03 2–9 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 28 16 15 38.9–1.1 40.76N–.03 38.37E–.03 13–13 28 0-1
ISCJB III 28 16 15 39.6–.56 40.73N–.04 38.35E–.04 8–6 ¶16495780
DDA III 28 16 15 39.5 40.72N 38.32E 7
ISK III 28 16 15 39.0 40.83N 38.33E 16 2.5
CSEM III 28 16 15 39.6–.09 40.72N 38.36E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=19.0.
ISC III 28 16 50 27.8–1.1 37.88N–.03 27.43E–.03 7–14 24 0-1
CSEM III 28 16 50 27.8–.16 37.90N 27.44E 2 2.6L ¶16495781
ISK III 28 16 50 27.5 37.91N 27.45E 10 2.4
DDA III 28 16 50 27.1 37.90N 27.43E 7 2.4
ISCJB III 28 16 50 27.5–.62 37.89N–.04 27.44E–.04 2–10 2.4
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 28 18 38 51.9–.89 40.27N–.03 29.01E–.02 13–6 38 0-1
ISK III 28 18 38 51.7 40.27N 28.98E 20 2.5 ¶16495787
CSEM III 28 18 38 52.4–.17 40.25N 29.02E 10 2.7L
DDA III 28 18 38 52.7 40.21N 29.04E 7 2.7L
ISCJB III 28 18 38 52.6–.51 40.25N–.04 29.00E–.03 10–5 2.7L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 28 19 15 44.5–.99 38.12N–.04 40.20E–.05 10 26 0-2
CSEM III 28 19 15 43.8–.60 38.15N 40.22E 2 2.6 ¶16495788
ISK III 28 19 15 43.3 38.16N 40.20E 8 2.7
ISCJB III 28 19 15 43.6–.97 38.18N–.05 40.26E–.08 10 2.7
DDA III 28 19 15 44.3 38.10N 40.16E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.9km s-min=6.9km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.2km az=147.9.
ISC III 28 20 31 19.9–1.4 40.33N–.03 42.19E–.04 1–12 35 0-2
ISK III 28 20 31 19.0 40.43N 42.19E 5 2.6 ¶16495790
DDA III 28 20 31 20.0 40.31N 42.27E 7 2.6
CSEM III 28 20 31 20.8–.25 40.35N 42.24E 12 2.6
ISCJB III 28 20 31 20.7–.55 40.32N–.03 42.22E–.04 7–8 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 28 23 11 58.6–.92 39.11N–.02 29.10E–.02 13–8 68 0-2
CSEM III 28 23 11 58.8–.11 39.12N 29.10E 2 2.8 ¶16495795
ISK III 28 23 11 58.5 39.12N 29.07E 5 2.7
DDA III 28 23 11 58.0 39.12N 29.06E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=66.0.
DDA III 29 00 46 38.4 38.47N 39.58E 16
CSEM III 29 00 46 38.4 38.47N 39.58E 16 3.3L ¶601582861
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 29 00 47 57.2–1.0 39.13N–.02 29.07E–.02 9–9 74 0-2
ISK III 29 00 47 57.0 39.12N 29.05E 3 2.8 ¶16495796
DDA III 29 00 47 57.0 39.13N 29.10E 7 2.8
CSEM III 29 00 47 57.8–.14 39.12N 29.09E 2 3.3L

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=134.0.
ISC III 29 00 53 00.7–1.2 39.14N–.03 29.10E–.03 3–9 3.1b 85 0-39
ISCJB III 29 00 52 59.4–.69 39.19N–.02 29.12E–.04 5–5 3.1b ¶16475598
DDA III 29 00 53 00.4 39.13N 29.08E 7 3.1b
IDC III 29 00 53 00.5–1.2 39.10N 29.15E 0 3.2,3.1
THE III 29 00 53 01.1 39.18N 29.17E 2–1 3.8L,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=166.4.
IDC Error ellipse: s-maj=21.0km s-min=16.1km az=8.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=251.0.
ISC III 29 00 53 05.1–.82 39.22N–.03 29.05E–.02 9 135 0-9
ISCJB III 29 00 53 04.4–.26 39.16N–.02 29.07E–.03 9 ¶602442805
ISK III 29 00 53 05.5 39.16N 29.09E 25 3.8L
CSEM III 29 00 53 06.3–.16 39.16N 29.02E 30 3.8L
DDA III 29 00 53 09.9 39.16N 29.07E 7 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=154.5.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=57.0.
ISC III 29 03 14 26.0–.93 39.11N–.02 29.10E–.02 14–8 47 0-2
DDA III 29 03 14 25.7 39.12N 29.10E 7 ¶16495801
CSEM III 29 03 14 26.1–.08 39.13N 29.11E 2 2.8L
ISK III 29 03 14 26.0 39.13N 29.08E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=86.0.
ISC III 29 03 18 52.6–1.0 36.97N–.03 29.27E–.02 6–9 51 0-2
CSEM III 29 03 18 52.7–.15 36.96N 29.28E 8 2.7 ¶16495802
ISK III 29 03 18 52.0 36.95N 29.28E 8 2.7
ISCJB III 29 03 18 52.6–.51 36.94N–.04 29.28E–.04 4–7 2.7
DDA III 29 03 18 53.1 37.00N 29.20E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.8km az=140.3.
ISC III 29 07 52 34.0–.93 41.07N–.03 39.71E–.02 20–3 81 0-2
DDA III 29 07 52 33.6 41.10N 39.81E 19 ¶16495807
CSEM III 29 07 52 34.5–.29 41.09N 39.77E 2 3.0
TIF III 29 07 52 34.7 41.17N 39.84E 17–0 3.0
ISCJB III 29 07 52 34.8–.61 41.07N–.03 39.77E–.02 8–3 3.0
ISK III 29 07 52 35.7 40.94N 39.68E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.0km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.1km az=172.4.
ISC III 29 07 55 54.1–1.1 39.14N–.02 29.05E–.03 7–15 40 0-1
ISK III 29 07 55 53.3 39.13N 29.07E 8 2.3 ¶16495808
ISCJB III 29 07 55 54.0–.53 39.13N–.03 29.07E–.04 6–6 2.3
DDA III 29 07 55 54.6 39.09N 29.11E 7 2.3
CSEM III 29 07 55 54.2–.17 39.13N 29.08E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=18.6.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=95.0.
ISC III 29 09 46 08.8–1.0 37.16N–.04 28.08E–.05 9–9 24 0-1
ISK III 29 09 46 08.1 37.15N 28.08E 2 2.6 ¶16495812
CSEM III 29 09 46 09.6–.18 37.25N 28.24E 12 2.6
DDA III 29 09 46 09.4 37.24N 28.27E 7 2.6
ISCJB III 29 09 46 09.7–.63 37.24N–.04 28.27E–.07 14–6 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 29 10 09 45.3–.89 39.12N–.02 29.08E–.02 17–8 42 0-1
CSEM III 29 10 09 45.7–.09 39.12N 29.07E 8 2.8 ¶16495814
ISK III 29 10 09 45.0 39.12N 29.09E 7 2.5
DDA III 29 10 09 45.6 39.11N 29.09E 7 2.5
ISCJB III 29 10 09 45.5–.47 39.12N–.03 29.07E–.04 7–5 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 29 10 19 14.8–1.5 40.63N–.06 37.20E–.03 2–11 30 0-2
CSEM III 29 10 19 14.1–.40 40.67N 37.19E 2 2.6 ¶16495815
ISK III 29 10 19 14.5 40.57N 37.25E 11 2.4
DDA III 29 10 19 27.6 40.12N 38.04E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.3km az=164.0.
ISC III 29 10 49 02.5–1.5 38.25N–.04 40.04E–.04 1–13 26 0-1
DDA III 29 10 49 02.6 38.33N 40.10E 27 ¶16495816
CSEM III 29 10 49 03.4–.31 38.24N 40.05E 12 2.5
ISK III 29 10 49 03.2 38.24N 40.03E 14 2.5
ISCJB III 29 10 49 03.6–.72 38.22N–.04 39.98E–.06 4–6 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 29 11 54 41.7–1.0 36.29N–.05 33.97E–.06 16–8 26 0-1
ISK III 29 11 54 40.7 36.28N 33.90E 26 2.5 ¶16495817
CSEM III 29 11 54 41.5–.31 36.28N 33.96E 15 2.8
DDA III 29 11 54 41.1 36.39N 33.80E 7 2.8
ISCJB III 29 11 54 41.7–.81 36.25N–.05 33.98E–.05 13–5 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 29 16 19 27.2–.83 40.62N–.02 26.53E–.02 10–6 71 0-2
ISK III 29 16 19 26.8 40.63N 26.53E 9 2.5 ¶16495823
CSEM III 29 16 19 27.2–.11 40.63N 26.54E 5 2.5
THE III 29 16 19 27.9 40.65N 26.50E 10–3 2.0L
DDA III 29 16 19 27.2 40.60N 26.56E 7 2.0L
ISCJB III 29 16 19 27.3–.40 40.63N–.02 26.53E–.03 6–3 2.0L
ISC Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC III 29 16 32 20.7–.86 37.05N–.02 27.67E–.02 12–6 63 0-2
ISK III 29 16 32 20.8 37.07N 27.65E 4 2.7 ¶16495824
DDA III 29 16 32 20.8 37.04N 27.65E 7 2.7
ISCJB III 29 16 32 21.2–.40 37.05N–.02 27.65E–.03 8–4 2.7
ATH III 29 16 32 21.5 37.01N 27.57E 31–2 2.1L
CSEM III 29 16 32 21.3–.13 37.06N 27.64E 10 2.9
THE III 29 16 32 21.0 37.07N 27.66E 4–2 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.6km az=44.5.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.3km az=249.0. Analyst: A.ANDREOU ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=135.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.7km az=247.0.
ISC III 29 20 55 19.9–.96 38.20N–.03 28.71E–.03 13–8 36 0-1
DDA III 29 20 55 19.6 38.21N 28.72E 12 ¶16495830
ISCJB III 29 20 55 19.8–.58 38.19N–.03 28.71E–.04 6–6
CSEM III 29 20 55 19.5–.18 38.18N 28.73E 5 2.7
ISK III 29 20 55 19.5 38.21N 28.67E 4 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=138.6.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=130.0.
ISC III 29 22 56 18.9–.00 39.07N–.03 30.03E–.02 12–11 41 0-1
DDA III 29 22 56 18.7 39.06N 30.01E 8 ¶16495832
CSEM III 29 22 56 19.3–.21 39.06N 30.01E 10 2.9
ISK III 29 22 56 19.3 39.03N 29.93E 7 2.4
ISCJB III 29 22 56 19.3–.53 39.07N–.03 30.02E–.03 12–4 2.4
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 29 23 05 54.6–.98 39.47N–.05 38.66E–.07 14–8 22 0-1
CSEM III 29 23 05 54.6–.25 39.49N 38.62E 10 2.5 ¶16495833
DDA III 29 23 05 54.1 39.47N 38.61E 7 2.5
ISK III 29 23 05 55.0 39.50N 38.68E 4 2.5
ISCJB III 29 23 05 55.0–.72 39.49N–.04 38.64E–.05 10–5 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 29 23 47 42.7–.88 37.86N–.02 27.35E–.02 13–7 54 0-2
ISK III 29 23 47 42.7 37.93N 27.36E 27 2.4 ¶16495834
DDA III 29 23 47 43.0 37.86N 27.34E 8 2.4
CSEM III 29 23 47 43.6–.16 37.86N 27.30E 2 2.9
ATH III 29 23 47 43.6 37.82N 27.27E 15–4 1.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=69.0.
ATH Event type ke. Error ellipse: s-maj=7.2km s-min=2.1km az=264.0. Analyst: A.FOKAEFS ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 29 23 55 06.2–1.1 38.36N–.02 32.36E–.02 4–9 52 0-2
DDA III 29 23 55 05.8 38.33N 32.35E 7 ¶16495836
ISK III 29 23 55 05.6 38.35N 32.33E 6 2.7
CSEM III 29 23 55 06.1–.16 38.35N 32.35E 5 2.7
ISCJB III 29 23 55 06.0–.56 38.35N–.03 32.37E–.03 3–5 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 30 00 01 28.3–.91 39.11N–.02 29.08E–.02 12–8 76 0-2
DDA III 30 00 01 27.9 39.12N 29.09E 15 ¶16495838
ISCJB III 30 00 01 28.2–.46 39.12N–.03 29.08E–.03 2–5
CSEM III 30 00 01 28.7–.14 39.10N 29.07E 10 3.0
ISK III 30 00 01 28.2 39.09N 29.03E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=1.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=71.0.
DDA III 30 00 09 06.3 39.12N 29.09E 7
CSEM III 30 00 09 06.3 39.12N 29.09E 7 2.7 ¶601582958
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 30 00 09 22.1–.90 38.34N–.02 32.34E–.02 10–7 54 0-2
CSEM III 30 00 09 21.9–.15 38.32N 32.32E 8 2.9 ¶16495841
ISK III 30 00 09 21.7 38.34N 32.31E 7 2.9
ISCJB III 30 00 09 22.0–.55 38.34N–.03 32.35E–.04 4–5 2.9
DDA III 30 00 09 21.7 38.33N 32.35E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.0km az=137.9.
ISC III 30 05 53 25.8–.97 37.26N–.05 28.27E–.04 14–6 24 0-1
CSEM III 30 05 53 26.5–.20 37.22N 28.24E 12 2.5 ¶16495845
ISK III 30 05 53 26.3 37.22N 28.25E 13 2.5
DDA III 30 05 53 26.1 37.24N 28.28E 7 2.5
ISCJB III 30 05 53 26.2–.70 37.25N–.05 28.27E–.07 12–7 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 30 08 51 37.7–.97 40.75N–.02 29.04E–.02 15–8 52 0-1
ISK III 30 08 51 37.4 40.76N 29.04E 3 2.4 ¶16495847
DDA III 30 08 51 37.9 40.73N 29.02E 15 2.4
CSEM III 30 08 51 38.2–.12 40.76N 29.04E 12 2.6L
ISCJB III 30 08 51 38.1–.38 40.74N–.02 29.03E–.04 8–5 2.6L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 30 11 50 00.9–1.1 39.78N–.03 33.47E–.03 19–3 34 0-2
ISK III 30 11 49 59.3 39.84N 33.43E 12 2.1L ¶16495851
CSEM III 30 11 50 00.5–.23 39.81N 33.46E 10 2.8
DDA III 30 11 50 01.0 39.79N 33.47E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=132.0.
ISC III 30 12 50 11.2–1.5 37.07N–.07 41.40E–.04 14–10 29 1-2
CSEM III 30 12 50 09.4–.51 37.00N 41.48E 2 2.6 ¶16495853
ISK III 30 12 50 09.7 37.03N 41.46E 11 2.7
DDA III 30 12 50 11.9 37.11N 41.28E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=7.8km az=14.0.
ISC III 30 17 07 20.7–.79 40.04N–.01 27.85E–.01 13–5 3.5b 626 0-69
ATH III 30 17 07 19.5 39.99N 27.80E 20–1 4.0L ¶16475849
MOS III 30 17 07 19.3–.81 40.04N 27.88E 13 4.3b
CSEM III 30 17 07 20.9–.06 40.05N 27.83E 10 4.0b
ISK III 30 17 07 20.1 40.05N 27.83E 8 4.3L
ISCJB III 30 17 07 20.4–.29 40.07N–.01 27.82E–.01 15–2 3.7b,2.6s
NEIC III 30 17 07 20.4 40.04N 27.86E 15 4.4L,4.3L
DDA III 30 17 07 20.0 40.03N 27.85E 24 4.4L,4.3L
IDC III 30 17 07 21.7–2.6 39.97N 27.89E 23–19 3.7L,3.6
THE III 30 17 07 21.8 40.02N 27.83E 12–2 4.3L,3.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=79.0. Analyst: Ch. Ventouzi ML
Amplitudes are expressed in micrometres All distances are expressed in km.
MOS Error ellipse: s-maj=5.4km s-min=4.2km az=96.9.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=17.2.
NEIC Event type se. After ISK.
IDC Error ellipse: s-maj=14.2km s-min=10.1km az=44.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=71.0.
ISC III 30 18 07 48.7–.89 40.44N–.01 28.05E–.01 10–7 179 0-6
DDA III 30 18 07 48.6 40.41N 28.03E 12 ¶16495860
ISK III 30 18 07 48.4 40.44N 28.04E 6 3.1L
CSEM III 30 18 07 48.7–.09 40.44N 28.03E 5 3.1L
ISCJB III 30 18 07 48.5–.32 40.45N–.02 28.04E–.02 7–2 3.1L
THE III 30 18 07 50.3 40.43N 28.10E 18–4 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=4.9.
THE Event type ke. Error ellipse: s-maj=4.9km s-min=1.0km az=52.0.
ISC III 30 19 40 03.5–1.2 40.14N–.03 31.64E–.03 2–11 31 0-1
ISK III 30 19 40 02.1 40.20N 31.67E 5 2.5 ¶16495861
DDA III 30 19 40 03.4 40.12N 31.69E 7 2.5
CSEM III 30 19 40 03.2–.31 40.14N 31.66E 0–5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=106.0.
ISC III 30 19 41 01.9–1.0 40.53N–.02 30.51E–.03 8–8 56 0-2
ISK III 30 19 41 01.7 40.50N 30.46E 6 2.6 ¶16495864
ISCJB III 30 19 41 02.1–.49 40.51N–.02 30.46E–.04 4–5 2.6
DDA III 30 19 41 02.0 40.50N 30.48E 7 2.6
CSEM III 30 19 41 02.3–.12 40.50N 30.47E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.7km az=154.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=58.0.
ISC III 31 06 05 40.2–1.2 37.30N–.05 28.26E–.04 7–11 22 0-1
ISK III 31 06 05 40.8 37.22N 28.18E 5 2.6 ¶16495873
ISCJB III 31 06 05 41.4–1.0 37.26N–.05 28.24E–.06 4–34 2.6
DDA III 31 06 05 41.2 37.27N 28.23E 7 2.6
CSEM III 31 06 05 41.6–.26 37.25N 28.24E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.6km az=136.8.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.9km az=49.0.
ISC III 31 11 33 25.0–1.2 38.28N–.03 38.18E–.03 1–11 34 0-2
ISK III 31 11 33 22.9 38.05N 37.95E 25 2.5 ¶16495877
CSEM III 31 11 33 23.9–.36 38.11N 38.07E 20 2.3
DDA III 31 11 33 25.9 38.28N 38.12E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=8.1km az=88.0.
ISC III 31 14 57 30.3–1.2 37.30N–.04 28.26E–.04 12–9 28 0-1
ISK III 31 14 57 30.8 37.25N 28.21E 5 2.6 ¶16495886
CSEM III 31 14 57 31.4–.26 37.26N 28.25E 10 2.6
DDA III 31 14 57 31.5 37.27N 28.23E 7 2.6
ISCJB III 31 14 57 31.4–.63 37.27N–.05 28.24E–.06 6–11 2.6
ISC Event type ke.

CSEM Event type ke.
ISCJB Event type ke.
ISC III 31 15 41 20.5–1.4 40.56N–.03 37.73E–.02 8–15 36 0-2
DDA III 31 15 41 21.0 40.55N 37.70E 7 ¶16495888
CSEM III 31 15 41 21.5–.22 40.56N 37.72E 5 2.6
ISCJB III 31 15 41 21.3–.48 40.55N–.03 37.71E–.04 4–9 2.6
ISK III 31 15 41 21.4 40.45N 37.80E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=144.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=137.6.
ISC III 31 15 58 46.8–.98 38.48N–.05 28.61E–.04 16–6 28 0-2
CSEM III 31 15 58 47.3–.19 38.48N 28.56E 12 2.5 ¶16495889
ISK III 31 15 58 47.0 38.44N 28.57E 15 2.5
ISCJB III 31 15 58 47.1–.64 38.48N–.05 28.54E–.05 12–6 2.5
DDA III 31 15 58 48.7 38.57N 28.64E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.0km az=10.9.
DDA III 31 15 59 02.8 37.43N 28.03E 7
CSEM III 31 15 59 02.8 37.43N 28.03E 7 2.2 ¶601583029
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 31 17 36 37.5–1.1 37.79N–.02 29.24E–.03 7–9 46 0-2
DDA III 31 17 36 36.8 37.79N 29.24E 7 ¶16495890
ISK III 31 17 36 36.9 37.79N 29.24E 4 2.6
ISCJB III 31 17 36 37.4–.48 37.80N–.02 29.23E–.04 3–7 2.6
CSEM III 31 17 36 37.4–.19 37.80N 29.24E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=87.0.
ISC III 31 19 20 06.8–.89 39.11N–.02 29.04E–.02 17–8 36 0-2
ISK III 31 19 20 06.4 39.10N 29.06E 5 2.4 ¶16495869
DDA III 31 19 20 06.4 39.16N 29.03E 7 2.4
CSEM III 31 19 20 07.1–.09 39.11N 29.04E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=116.0.
ISC III 31 20 27 38.6–.94 39.13N–.02 29.08E–.03 9 47 0-2
CSEM III 31 20 27 38.7–.13 39.14N 29.08E 2 2.5 ¶16495894
ISK III 31 20 27 38.9 39.15N 29.05E 8 2.5
DDA III 31 20 27 38.2 39.12N 29.10E 7 2.5
ISCJB III 31 20 27 38.8–.43 39.13N–.03 29.06E–.04 9 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 31 20 28 17.2–.91 39.12N–.02 29.08E–.02 9 65 0-2
ISK III 31 20 28 16.8 39.14N 29.07E 8 2.7 ¶16495897
DDA III 31 20 28 16.5 39.13N 29.09E 7 2.7
CSEM III 31 20 28 17.0–.07 39.13N 29.10E 5 2.7
ISCJB III 31 20 28 17.0–.41 39.12N–.03 29.08E–.04 9 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 31 20 34 09.4–.91 39.10N–.03 29.09E–.03 14–9 27 0-1
ISK III 31 20 34 08.7 39.08N 29.10E 11 2.5 ¶16495898
DDA III 31 20 34 09.1 39.14N 29.09E 7 2.5
CSEM III 31 20 34 09.1 39.14N 29.09E 7 2.6
ISCJB III 31 20 34 09.3–.54 39.10N–.03 29.08E–.04 5–6 2.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 01 00 04 05.4–.95 38.92N–.03 28.13E–.03 13–9 25 0-1
ISK IV 01 00 04 04.7 38.92N 28.15E 3 2.4 ¶16647918
DDA IV 01 00 04 05.5 38.92N 28.12E 7 2.6
CSEM IV 01 00 04 05.7–.16 38.92N 28.12E 2 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=131.0.
ISC IV 01 01 12 05.9–1.1 39.82N–.03 41.71E–.02 16–9 36 0-2
CSEM IV 01 01 12 05.6–.30 39.77N 41.68E 15 2.7 ¶16647919
ISK IV 01 01 12 05.7 39.83N 41.77E 14 2.7
ISCJB IV 01 01 12 06.2–.49 39.79N–.03 41.76E–.04 13–4 2.7
DDA IV 01 01 12 06.7 39.90N 41.68E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=6.1km az=3.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=37.1.
DDA Event type ke.
ISC IV 01 03 08 15.8–1.3 40.79N–.04 42.43E–.03 15–11 32 0-2
CSEM IV 01 03 08 15.9–.23 40.77N 42.43E 10 2.7 ¶601583036
DDA IV 01 03 08 15.4 40.73N 42.42E 7 2.7
ISCJB IV 01 03 08 16.2–.60 40.78N–.04 42.42E–.04 6–11 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 01 03 13 38.8–.95 38.83N–.04 31.63E–.03 11–9 28 0-1
ISCJB IV 01 03 13 39.0–.53 38.80N–.05 31.63E–.04 10–7 ¶16647922
CSEM IV 01 03 13 38.9–.10 38.84N 31.63E 2 2.6
DDA IV 01 03 13 38.9 38.84N 31.62E 7 2.3
ISK IV 01 03 13 40.1 38.80N 31.74E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.2km az=15.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=1.8km az=22.0.
ISC IV 01 03 28 50.4–.92 37.49N–.03 38.72E–.02 13–6 43 0-2
ISCJB IV 01 03 28 50.8–.64 37.51N–.04 38.70E–.03 9–4 ¶16647923
DDA IV 01 03 28 50.3 37.54N 38.71E 7 2.8
CSEM IV 01 03 28 50.9–.15 37.51N 38.72E 10 2.9
ISK IV 01 03 28 50.0 37.49N 38.70E 7 2.9
NSSC IV 01 03 28 56.0–.58 36.82N 38.86E 38–7 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=168.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=12.0.
NSSC Error ellipse: s-maj=3.7km s-min=1.5km az=-1.0.
DDA IV 01 12 11 56.6 37.18N 27.90E 7 2.6
¶601583058
ISC IV 01 12 18 31.1–1.3 36.80N–.07 34.48E–.07 8–9 8 0-1
ISCJB IV 01 12 18 31.6–1.3 36.79N–.08 34.5E–.10 5–20 ¶601583059
DDA IV 01 12 18 31.6 36.79N 34.53E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.5km s-min=9.0km az=135.7.
ISC IV 01 12 30 11.8–1.1 38.27N–.05 37.70E–.04 12–8 28 0-2
ISK IV 01 12 30 10.3 38.22N 37.67E 5 2.8 ¶16647932
CSEM IV 01 12 30 11.3–.23 38.26N 37.69E 5 2.7
DDA IV 01 12 30 12.4 38.32N 37.73E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=72.0.
ISC IV 01 13 02 44.5–1.0 37.68N–.03 38.11E–.03 9–10 35 0-2
ISCJB IV 01 13 02 44.1–.59 37.67N–.03 38.10E–.04 1–7 ¶16647933
CSEM IV 01 13 02 44.3–.18 37.67N 38.11E 5 2.9
DDA IV 01 13 02 44.1 37.67N 38.09E 7 2.9
ISK IV 01 13 02 44.2 37.66N 38.12E 11 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=139.1.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=134.0.
ISC IV 01 13 02 59.0–1.3 39.11N–.03 40.38E–.03 0–12 40 0-2
ISK IV 01 13 02 58.5 39.11N 40.41E 6 3.0 ¶16647934
ISCJB IV 01 13 02 59.2–.48 39.11N–.03 40.39E–.03 7–5 3.0
CSEM IV 01 13 02 59.1–.22 39.10N 40.39E 8 3.0
DDA IV 01 13 02 59.4 39.13N 40.39E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=26.5.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=5.1km az=22.0.
ISC IV 01 15 21 59.2–1.1 39.48N–.02 26.29E–.02 2–12 96 0-3
ISK IV 01 15 21 58.7 39.49N 26.26E 4 2.8 ¶16647939
DDA IV 01 15 21 58.8 39.50N 26.35E 7 3.0
ISCJB IV 01 15 21 58.9–.45 39.48N–.02 26.29E–.03 2–5 3.0
THE IV 01 15 21 58.9 39.48N 26.31E 9–1 2.2L
ATH IV 01 15 21 58.3 39.47N 26.34E 16–3 2.2L
CSEM IV 01 15 21 59.1–.10 39.48N 26.28E 2 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.1km az=154.5.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.5km az=114.0.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.1km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=79.0.
ISC IV 01 20 42 48.3–.95 37.89N–.02 27.44E–.02 8–8 115 0-3
DDA IV 01 20 42 47.9 37.91N 27.44E 7 2.9 ¶16647945
ATH IV 01 20 42 48.9 37.88N 27.38E 10–2 2.5L
CSEM IV 01 20 42 48.9–.10 37.89N 27.44E 2 2.9
THE IV 01 20 42 48.9 37.82N 27.40E 1–1 2.7L
ISK IV 01 20 42 48.2 37.91N 27.47E 3 3.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.2km az=249.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=74.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=83.0.
ISC IV 02 01 43 09.3–.94 37.14N–.02 28.47E–.02 7–7 85 0-3
ATH IV 02 01 43 07.1 37.18N 28.61E 23–2 2.8L ¶16647978
DDA IV 02 01 43 08.9 37.14N 28.43E 7 2.9
ISK IV 02 01 43 08.5 37.13N 28.47E 4 2.9
ISCJB IV 02 01 43 09.2–.43 37.15N–.02 28.46E–.03 5–4 2.9
CSEM IV 02 01 43 09.2–.12 37.13N 28.46E 5 2.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.6km az=180.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=13.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=164.0.
ISC IV 02 01 49 49.8–.86 39.67N–.03 27.90E–.03 8–5 42 0-2
ISCJB IV 02 01 49 49.7–.54 39.66N–.04 27.89E–.05 7–4 ¶16647979
CSEM IV 02 01 49 49.8–.11 39.66N 27.91E 6–1 2.7
DDA IV 02 01 49 49.5 39.64N 27.91E 7 2.7
ISK IV 02 01 49 49.6 39.65N 27.93E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.3km az=39.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=141.0.
ISC IV 02 02 22 52.1–1.1 38.54N–.03 31.40E–.02 8–12 51 0-2
ISK IV 02 02 22 51.4 38.48N 31.37E 5 2.9 ¶16647980
CSEM IV 02 02 22 52.5–.21 38.52N 31.38E 2 3.1
DDA IV 02 02 22 52.0 38.59N 31.41E 7 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=14.0.
ISC IV 02 04 20 55.8–1.2 37.92N–.03 27.40E–.03 3–17 28 0-1
DDA IV 02 04 20 55.3 37.90N 27.42E 7 2.4 ¶16647983
ISCJB IV 02 04 20 56.2–.56 37.88N–.03 27.43E–.04 7–8 2.4
ISK IV 02 04 20 56.4 37.91N 27.46E 8 2.6
CSEM IV 02 04 20 56.4–.20 37.89N 27.43E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.4km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.7km az=69.0.
ISC IV 02 04 27 52.5–1.5 37.07N–.09 37.49E–.05 10 17 0-1
CSEM IV 02 04 27 51.6–.66 37.02N 37.55E 2 2.7 ¶601583072
ISCJB IV 02 04 27 52.5–1.2 37.06N–.07 37.44E–.06 10 2.7
DDA IV 02 04 27 52.8 37.15N 37.42E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.8km s-min=11.7km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.0km az=162.3.
ISC IV 02 10 19 45.3–.90 40.23N–.03 36.57E–.04 8–7 28 0-1
DDA IV 02 10 19 45.9 40.26N 36.57E 7 2.1 ¶16647986
ISK IV 02 10 19 45.6 40.26N 36.55E 7 2.5
CSEM IV 02 10 19 45.7–.16 40.22N 36.49E 0–2 2.5
ISCJB IV 02 10 19 46.2–.62 40.25N–.03 36.54E–.05 8–8 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 02 13 37 02.5–1.1 39.70N–.02 34.72E–.02 19–2 38 0-2
ISK IV 02 13 37 01.9 39.69N 34.70E 10 2.7 ¶16647991
CSEM IV 02 13 37 02.4–.22 39.67N 34.72E 2 2.6
DDA IV 02 13 37 02.5 39.70N 34.73E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.8km az=144.0.
ISC IV 02 16 57 41.6–1.3 37.33N–.03 36.28E–.02 1–12 46 0-2
ISCJB IV 02 16 57 42.7–.54 37.30N–.04 36.33E–.03 2–7 ¶16647992
DDA IV 02 16 57 42.6 37.30N 36.36E 7 2.9
ISK IV 02 16 57 42.9 37.29N 36.30E 10 2.7
CSEM IV 02 16 57 43.7–.24 37.28N 36.28E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=172.3.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=164.0.
ISC IV 02 17 38 34.5–.97 39.14N–.02 29.09E–.02 8–9 51 0-12
CSEM IV 02 17 38 34.7–.18 39.13N 29.11E 2 2.7 ¶16647993
DDA IV 02 17 38 34.5 39.10N 29.09E 7 2.9
ISK IV 02 17 38 37.6 39.36N 29.10E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=174.0.
ISC IV 03 02 03 27.3–1.3 40.16N–.07 27.12E–.05 9 18 0-1
ISCJB IV 03 02 03 27.0–1.3 40.14N–.05 27.04E–.08 9 ¶16648022
ISK IV 03 02 03 26.0 40.13N 27.12E 26 2.2
CSEM IV 03 02 03 27.1–.48 40.13N 27.07E 8 2.2
DDA IV 03 02 03 28.4 40.17N 27.15E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.2km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=5.7km az=47.0.
ISC IV 03 11 21 05.3–1.0 37.27N–.04 28.20E–.03 10–8 26 0-1
ISK IV 03 11 21 04.8 37.29N 28.22E 7 2.6 ¶16648026
ISCJB IV 03 11 21 05.3–.72 37.28N–.05 28.23E–.07 14–7 2.6
CSEM IV 03 11 21 05.5–.25 37.26N 28.21E 10 2.6
DDA IV 03 11 21 06.2 37.27N 28.18E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.8km az=141.2.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.8km az=44.0.
ISC IV 03 12 24 07.3–1.3 41.41N–.04 35.86E–.02 6–13 40 0-2
ISK IV 03 12 24 07.3 41.38N 35.86E 7 2.7 ¶16648027
ISCJB IV 03 12 24 08.0–.54 41.39N–.05 35.85E–.04 9–6 2.7
DDA IV 03 12 24 08.0 41.36N 35.82E 7 2.8
CSEM IV 03 12 24 08.1–.15 41.38N 35.85E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.2km az=26.9.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.5km az=33.0.
ISC IV 03 12 47 05.3–.95 37.10N–.02 28.74E–.02 13–8 132 0-8
CSEM IV 03 12 47 04.9–.10 37.09N 28.77E 10 3.6L ¶16648028
HLW IV 03 12 47 04.9 37.12N 28.85E 33–18 3.6L
ISK IV 03 12 47 04.6 37.12N 28.76E 9 3.3L
ATH IV 03 12 47 04.4 37.16N 28.63E 13–3 3.6L
ISCJB IV 03 12 47 05.5–.36 37.09N–.02 28.74E–.03 18–5 3.6L
DDA IV 03 12 47 05.4 37.14N 28.71E 37 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=66.0.
ATH Event type ke. Error ellipse: s-maj=4.7km s-min=1.7km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=145.8.
ISC IV 03 13 42 11.7–1.0 37.12N–.03 28.72E–.02 10–9 51 0-2
ISCJB IV 03 13 42 11.7–.50 37.14N–.03 28.74E–.03 4–6 ¶16648030
CSEM IV 03 13 42 11.8–.13 37.12N 28.75E 10 2.6
ISK IV 03 13 42 11.2 37.11N 28.77E 8 2.7
DDA IV 03 13 42 12.1 37.14N 28.71E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=10.7.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=20.0.
ISC IV 03 15 41 57.5–.92 39.33N–.03 29.20E–.04 8 26 0-1

ISCJB IV 03 15 41 57.4–.64 39.34N–.03 29.20E–.07 8 ¶16648031
CSEM IV 03 15 41 57.5–.12 39.33N 29.20E 8 2.5
ISK IV 03 15 41 57.0 39.32N 29.23E 8 2.5
DDA IV 03 15 42 00.2 39.23N 29.27E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=175.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.3km az=92.0.
ISC IV 03 16 11 18.7–1.5 39.96N–.03 35.36E–.04 5–13 28 0-2
ISK IV 03 16 11 18.6 39.98N 35.37E 5 2.7 ¶16648032
ISCJB IV 03 16 11 19.8–.89 39.99N–.04 35.39E–.06 9–7 2.7
DDA IV 03 16 11 19.8 39.95N 35.33E 7 2.7
CSEM IV 03 16 11 19.7–.32 39.98N 35.37E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.0km az=142.4.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.0km az=43.0.
ISC IV 03 17 14 34.1–1.1 38.87N–.05 27.89E–.04 12–7 20 0-1
ISCJB IV 03 17 14 34.3–.86 38.84N–.04 27.90E–.07 9–10 ¶16648034
CSEM IV 03 17 14 34.4–.13 38.84N 27.89E 6–1 2.6
ISK IV 03 17 14 34.2 38.83N 27.91E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.4km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=112.0.
ISC IV 03 19 14 45.0–.87 40.39N–.01 26.27E–.02 9–7 148 0-3
ATH IV 03 19 14 44.9 40.40N 26.26E 29–1 2.3L ¶16648035
ISK IV 03 19 14 44.7 40.37N 26.30E 7 2.9
ISCJB IV 03 19 14 45.2–.33 40.39N–.02 26.27E–.02 10–2 2.9
CSEM IV 03 19 14 45.3–.07 40.39N 26.28E 10 2.9
DDA IV 03 19 14 45.0 40.38N 26.28E 30 3.0
THE IV 03 19 14 45.7 40.37N 26.26E 9–0 2.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=276.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=30.1.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=11.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=89.0.
ISC IV 03 20 22 20.0–.87 40.65N–.02 29.14E–.02 11–7 48 0-1
ISCJB IV 03 20 22 19.6–.43 40.65N–.02 29.15E–.04 4–6 ¶16648036
ISK IV 03 20 22 19.1 40.65N 29.14E 9 2.6
CSEM IV 03 20 22 19.7–.11 40.66N 29.14E 10 2.5
DDA IV 03 20 22 20.1 40.68N 29.12E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=128.0.
ISC IV 03 21 50 28.9–1.0 39.48N–.03 29.08E–.02 8–11 40 0-1
ISCJB IV 03 21 50 28.6–.44 39.49N–.03 29.08E–.04 3–8 ¶16648045
ISK IV 03 21 50 28.7 39.49N 29.10E 6 2.6
DDA IV 03 21 50 28.9 39.48N 29.04E 7 2.7
CSEM IV 03 21 50 29.0–.07 39.48N 29.09E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=137.7.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=60.0.
ISC IV 04 03 44 26.6–.96 39.13N–.02 29.11E–.02 8–8 209 0-9
DDA IV 04 03 44 25.9 39.13N 29.09E 7 3.5L ¶16648070
ISK IV 04 03 44 25.9 39.13N 29.10E 4 3.5L
CSEM IV 04 03 44 26.7–.11 39.13N 29.14E 2 3.5L
THE IV 04 03 44 27.1 39.17N 29.50E 1–1 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=58.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=1.3km az=66.0.
ISC IV 04 07 24 44.5–.88 39.13N–.02 29.08E–.02 13–7 72 0-2
ISCJB IV 04 07 24 44.4–.42 39.12N–.02 29.08E–.03 4–5 ¶16648074
DDA IV 04 07 24 44.5 39.12N 29.09E 12 2.6
ISK IV 04 07 24 44.0 39.11N 29.10E 5 2.8
CSEM IV 04 07 24 44.6–.09 39.12N 29.09E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=8.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=66.0.
DDA IV 04 12 00 02.4 36.96N 34.81E 8 2.4
¶601583143
ISC IV 04 19 33 15.4–1.3 38.71N–.04 39.93E–.03 3–13 25 0-2
DDA IV 04 19 33 15.2 38.77N 40.02E 6 2.8 ¶16648083
ISK IV 04 19 33 15.0 38.80N 39.94E 25 2.6
CSEM IV 04 19 33 16.3–.36 38.67N 39.83E 10 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=6.9km az=51.0.
ISC IV 04 21 30 48.4–1.0 38.41N–.03 31.77E–.04 12–12 30 0-2
ISK IV 04 21 30 47.9 38.45N 31.83E 4 2.5 ¶16648085
DDA IV 04 21 30 48.9 38.38N 31.81E 7 2.8
CSEM IV 04 21 30 48.6–.25 38.42N 31.80E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.4km az=33.0.
ISC IV 04 21 34 34.2–1.4 38.40N–.04 39.35E–.03 9–12 28 0-2
ISCJB IV 04 21 34 35.0–.66 38.32N–.05 39.35E–.05 3–9 ¶601583176
DDA IV 04 21 34 34.7 38.31N 39.32E 8 2.9
CSEM IV 04 21 34 35.2–.31 38.33N 39.33E 2 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.2km az=37.7.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=5.5km az=39.0.
ISC IV 04 21 42 12.7–1.1 39.58N–.07 27.16E–.07 10 9 0-2
CSEM IV 04 21 42 11.1–.92 39.25N 27.42E 2 2.7 ¶601583178
DDA IV 04 21 42 12.3 39.67N 27.08E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.5km s-min=5.5km az=146.0.
ISC IV 04 22 16 09.5–.91 40.11N–.03 28.21E–.03 12–8 32 0-1
ISK IV 04 22 16 08.8 40.09N 28.23E 4 2.6 ¶16648088
ISCJB IV 04 22 16 09.3–.52 40.12N–.03 28.18E–.04 4–7 2.6
CSEM IV 04 22 16 09.6–.19 40.12N 28.22E 10 2.6
DDA IV 04 22 16 09.4 40.12N 28.15E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=5.2km az=18.7.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=96.0.
ISC IV 04 22 20 38.5–1.3 38.57N–.04 31.18E–.03 3–12 36 0-2
ISCJB IV 04 22 20 39.7–.57 38.63N–.03 31.15E–.04 1–7 ¶16648089
DDA IV 04 22 20 39.2 38.62N 31.15E 7 2.8
CSEM IV 04 22 20 39.5–.30 38.58N 31.11E 2 2.8
ISK IV 04 22 20 39.4 38.53N 31.11E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.8km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=176.0.
ISC IV 05 00 22 06.4–1.2 37.10N–.02 29.07E–.02 4–10 94 0-4
ATH IV 05 00 22 05.2 37.13N 29.04E 10–3 2.8L ¶16881401
ISCJB IV 05 00 22 06.7–.59 37.07N–.02 29.07E–.03 7–4 2.8L
CSEM IV 05 00 22 06.7–.14 37.07N 29.12E 10 3.0L
DDA IV 05 00 22 06.0 37.06N 29.06E 7 3.2
THE IV 05 00 22 06.4 37.02N 29.10E 0–0 3.0L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.3km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=44.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=127.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.5km az=43.0.
ISC IV 05 00 50 40.8–1.0 39.14N–.03 26.51E–.03 13–8 36 0-2
ISCJB IV 05 00 50 40.7–.58 39.10N–.04 26.50E–.04 8–5 ¶16648123
DDA IV 05 00 50 40.8 39.11N 26.57E 7 2.8
ISK IV 05 00 50 40.4 39.15N 26.53E 6 2.7
CSEM IV 05 00 50 41.0–.16 39.13N 26.52E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=8.6.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.7km az=52.0.
ISC IV 05 02 05 49.2–.97 37.86N–.02 27.31E–.03 6–10 38 0-2
CSEM IV 05 02 05 48.9–.12 37.86N 27.30E 5 2.7 ¶16648124
DDA IV 05 02 05 48.3 37.89N 27.36E 5 2.7
ISK IV 05 02 05 48.4 37.88N 27.33E 4 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=68.0.
ISC IV 05 04 12 11.8–.98 39.40N–.02 26.27E–.02 13–8 88 0-2
ISK IV 05 04 12 11.3 39.40N 26.33E 9 2.7 ¶16648125
ISCJB IV 05 04 12 12.1–.41 39.42N–.02 26.30E–.03 6–4 2.7
DDA IV 05 04 12 12.1 39.46N 26.32E 6 3.0
THE IV 05 04 12 12.6 39.44N 26.25E 3–1 1.9L
ATH IV 05 04 12 12.2 39.43N 26.29E 12–5 1.7L
CSEM IV 05 04 12 12.1–.08 39.41N 26.31E 10 1.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=161.9.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.3km az=216.0.
ATH Event type ke. Error ellipse: s-maj=5.3km s-min=1.0km az=163.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=94.0.
ISC IV 05 10 09 32.6–1.1 40.38N–.03 27.84E–.02 2–10 70 0-2
ISK IV 05 10 09 32.7 40.32N 27.85E 6 2.5 ¶16648136
CSEM IV 05 10 09 33.4–.12 40.34N 27.86E 10 2.5
DDA IV 05 10 09 33.2 40.33N 27.83E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=24.0.
ISC IV 05 19 53 49.7–.95 39.13N–.01 29.03E–.01 8–8 221 0-9
ISCJB IV 05 19 53 49.6–.40 39.11N–.02 29.06E–.02 3–3 ¶16648141
DDA IV 05 19 53 49.2 39.13N 29.07E 14 3.5L
ISK IV 05 19 53 49.0 39.13N 29.12E 5 3.5L
CSEM IV 05 19 53 50.1–.10 39.12N 29.08E 2 3.5L
THE IV 05 19 53 51.1 39.06N 28.91E 0–2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=19.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=16.0.
THE Event type ke. Error ellipse: s-maj=4.9km s-min=1.4km az=83.0.
ISC IV 05 22 00 48.8–1.4 37.31N–.03 36.29E–.04 1–16 30 0-2
CSEM IV 05 22 00 50.1–.29 37.26N 36.34E 2 2.6 ¶601583226
DDA IV 05 22 00 50.0 37.26N 36.36E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.5km az=100.0.
DDA Event type ke.
ISC IV 06 00 18 02.1–.95 39.95N–.02 37.54E–.02 16–8 47 0-2
DDA IV 06 00 18 02.1 39.94N 37.53E 7 2.8 ¶16648169
ISK IV 06 00 18 02.0 39.99N 37.53E 4 2.7
CSEM IV 06 00 18 02.4–.18 39.96N 37.54E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=2.0.
ISC IV 06 00 19 16.9–.88 40.81N–.04 28.18E–.02 12 35 0-1
ISK IV 06 00 19 16.8 40.78N 28.19E 13 2.6 ¶16648170
ISCJB IV 06 00 19 17.2–.44 40.79N–.03 28.19E–.04 12 2.6
CSEM IV 06 00 19 17.3–.13 40.78N 28.18E 15 2.6
DDA IV 06 00 19 17.6 40.80N 28.13E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=170.0.
ISC IV 06 01 38 15.0–2.3 39.39N–.07 44.0E–.10 9 9 0-1
DDA IV 06 01 38 17.2 39.33N 43.82E 7 2.8 ¶601583234
ISC Event type ke.
ISC IV 06 02 11 28.9–.82 37.63N–.02 36.32E–.02 9–5 72 0-3
ISK IV 06 02 11 27.9 37.66N 36.32E 7 2.9 ¶16648176
CSEM IV 06 02 11 28.6–.15 37.66N 36.31E 5 2.8
DDA IV 06 02 11 28.0 37.68N 36.35E 10 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=99.0.
ISC IV 06 02 13 15.8–.87 39.11N–.02 29.04E–.02 17–7 44 0-1
ISK IV 06 02 13 15.3 39.10N 29.07E 10 2.6 ¶16648177
DDA IV 06 02 13 15.8 39.13N 29.05E 7 2.6
ISCJB IV 06 02 13 16.0–.48 39.11N–.03 29.04E–.04 7–5 2.6
CSEM IV 06 02 13 16.1–.08 39.11N 29.05E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.3km az=10.9.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=78.0.
ISC IV 06 02 55 27.4–1.0 37.59N–.02 29.74E–.03 12–9 46 0-2
ISK IV 06 02 55 26.7 37.61N 29.73E 11 2.9 ¶16648179
DDA IV 06 02 55 27.0 37.57N 29.76E 7 2.6
ISCJB IV 06 02 55 27.4–.51 37.59N–.02 29.75E–.04 7–6 2.6
CSEM IV 06 02 55 27.2–.21 37.60N 29.74E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=159.6.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=73.0.
ISC IV 06 03 46 06.3–.94 39.12N–.04 41.26E–.03 14–7 30 0-2
ISK IV 06 03 46 05.1 39.07N 41.26E 2 2.8 ¶16648181
ISCJB IV 06 03 46 07.3–.50 39.17N–.04 41.23E–.04 7–7 2.8
CSEM IV 06 03 46 07.2–.28 39.14N 41.31E 10 2.8
DDA IV 06 03 46 07.1 39.17N 41.23E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.4km az=150.7.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.8km az=160.0.
ISC IV 06 03 47 29.9–.86 38.33N–.02 27.25E–.03 12–6 40 0-2
ISCJB IV 06 03 47 30.0–.52 38.33N–.03 27.23E–.06 9–6 ¶16648182
DDA IV 06 03 47 29.8 38.32N 27.25E 7 2.6
ISK IV 06 03 47 29.5 38.33N 27.22E 14 2.6
CSEM IV 06 03 47 30.3–.25 38.33N 27.23E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=160.1.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=65.0.
ISC IV 06 03 57 29.3–1.2 41.08N–.05 40.09E–.03 6–10 48 0-2
ISCJB IV 06 03 57 30.4–.67 41.08N–.05 40.08E–.04 10–5 ¶16648183
DDA IV 06 03 57 30.0 41.13N 40.12E 7 2.7
CSEM IV 06 03 57 30.5–.20 41.08N 40.08E 15 2.6
ISK IV 06 03 57 31.7 40.98N 39.98E 20 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.2km az=157.4.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.7km az=161.0.
ISC IV 06 06 18 42.3–1.1 37.24N–.04 28.21E–.04 5–14 20 0-1
ISCJB IV 06 06 18 42.0–1.3 37.25N–.05 28.22E–.05 5–47 ¶601583243
DDA IV 06 06 18 41.9 37.25N 28.22E 7 2.5
CSEM IV 06 06 18 42.3–.29 37.25N 28.22E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=33.2.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.0km az=33.0.
ISC IV 06 06 55 25.8–1.3 39.46N–.03 39.10E–.03 2–14 37 0-1
ISCJB IV 06 06 55 26.8–.49 39.45N–.03 39.03E–.03 8–6 ¶16648186
CSEM IV 06 06 55 26.9–.26 39.43N 39.02E 15 2.6
DDA IV 06 06 55 26.5 39.45N 39.02E 7 2.6
ISK IV 06 06 55 26.1 39.47N 39.01E 11 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=1.1.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=5.3km az=66.0.
ISC IV 06 07 50 47.7–1.0 37.24N–.02 36.40E–.02 6–9 53 0-2
ISK IV 06 07 50 46.3 37.24N 36.44E 2 2.9 ¶16648188
ISCJB IV 06 07 50 47.5–.46 37.24N–.02 36.38E–.03 2–5 2.9
CSEM IV 06 07 50 47.5–.16 37.24N 36.41E 5 2.8
DDA IV 06 07 50 47.4 37.26N 36.39E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=4.3.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=78.0.
ISC IV 06 08 52 59.5–1.2 37.20N–.06 28.06E–.04 9–10 28 0-2
ISK IV 06 08 52 59.3 37.22N 28.14E 5 2.7 ¶16648190
DDA IV 06 08 53 00.6 37.23N 28.17E 7 2.8
CSEM IV 06 08 53 00.6–.32 37.23N 28.18E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=4.9km az=23.0.
ISC IV 06 10 40 44.7–.85 40.77N–.02 27.36E–.02 13–6 68 0-2
ISCJB IV 06 10 40 44.7–.38 40.78N–.02 27.36E–.03 6–4 ¶16648194

ISK	IV	06 10 40 44.6	40.77N	27.36E	7	2.6		
DDA	IV	06 10 40 45.1	40.76N	27.35E	5	2.7		
CSEM	IV	06 10 40 45.0–.07	40.77N	27.35E	8	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=4.1km s-min=4.0km az=169.4.						
CSEM		Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=4.0.						
ISC	**IV**	**06 10 42 10.0–.96**	**39.48N–.04**	**33.47E–.02**	**12–12**		**35**	**0-1**
ISCJB	IV	06 10 42 09.8–.62	39.50N–.04	33.50E–.04	3–7			¶16648195
CSEM	IV	06 10 42 09.9–.18	39.50N	33.48E	8	2.8		
ISK	IV	06 10 42 09.4	39.49N	33.48E	6	2.6		
DDA	IV	06 10 42 09.4	39.48N	33.49E	7	2.8		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.4km s-min=4.3km az=163.9.						
CSEM		Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=157.0.						
ISC	**IV**	**06 10 46 47.7–.93**	**39.71N–.02**	**30.78E–.02**	**9–8**		**59**	**0-2**
ISCJB	IV	06 10 46 48.0–.48	39.70N–.02	30.77E–.03	3–4			¶16648196
DDA	IV	06 10 46 47.6	39.72N	30.74E	7	2.9		
CSEM	IV	06 10 46 47.8–.20	39.69N	30.79E	8	2.9		
ISK	IV	06 10 46 47.5	39.66N	30.79E	11	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=139.4.						
CSEM		Event type ke. Error ellipse: s-maj=4.7km s-min=4.0km az=59.0.						
ISC	**IV**	**06 11 04 53.6–1.3**	**40.98N–.03**	**31.47E–.03**	**13–11**		**40**	**0-2**
ISK	IV	06 11 04 52.2	40.95N	31.55E	5	2.7		¶16648199
ISCJB	IV	06 11 04 54.4–.53	40.95N–.03	31.48E–.04	7–6	2.7		
CSEM	IV	06 11 04 54.3–.18	40.96N	31.47E	5	2.7		
DDA	IV	06 11 04 54.2	40.97N	31.47E	7	2.9		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=144.6.						
CSEM		Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=142.0.						
ISC	**IV**	**06 15 31 25.1–1.6**	**38.62N–.08**	**28.20E–.07**	**10**		**17**	**0-1**
CSEM	IV	06 15 31 24.5–.89	38.66N	28.16E	2	2.6		¶601583261
ISCJB	IV	06 15 31 26.2–1.4	38.57N–.08	28.26E–.08	10	2.6		
DDA	IV	06 15 31 26.0	38.57N	28.31E	7	2.6		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=21.5km s-min=6.6km az=139.0.						
ISCJB		Event type ke. Error ellipse: s-maj=14.0km s-min=5.4km az=143.5.						
ISC	**IV**	**06 16 05 13.8–.89**	**37.14N–.05**	**28.11E–.06**	**12–7**		**30**	**0-2**
ISK	IV	06 16 05 13.3	37.18N	28.16E	16	2.7		¶16648210
DDA	IV	06 16 05 14.1	37.24N	28.24E	7	2.6		
CSEM	IV	06 16 05 14.4–.25	37.21N	28.20E	8	2.7		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=8.0km s-min=4.3km az=36.0.						
ISC	**IV**	**06 19 14 34.9–.93**	**40.35N–.02**	**27.45E–.02**	**17–6**		**55**	**0-2**
ISCJB	IV	06 19 14 35.3–.43	40.35N–.03	27.45E–.04	10–4			¶16648211
CSEM	IV	06 19 14 35.5–.10	40.35N	27.45E	11–1	2.8		
ISK	IV	06 19 14 35.2	40.36N	27.45E	12	2.8		
DDA	IV	06 19 14 35.2	40.34N	27.47E	7	2.9L		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.2km s-min=5.1km az=138.1.						
CSEM		Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=48.0.						
ISC	**IV**	**06 19 23 27.8–1.0**	**37.88N–.02**	**27.30E–.03**	**8–12**		**25**	**0-1**
ISCJB	IV	06 19 23 27.6–.59	37.89N–.03	27.31E–.05	6–9			¶16648212
CSEM	IV	06 19 23 27.8–.14	37.89N	27.30E	2	2.6		
DDA	IV	06 19 23 27.7	37.87N	27.32E	7	2.6		
ISK	IV	06 19 23 27.6	37.92N	27.33E	11	2.5		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=167.0.						
CSEM		Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=77.0.						
ISC	**IV**	**06 20 01 02.4–.90**	**39.59N–.04**	**33.38E–.04**	**17–9**		**29**	**0-1**
ISCJB	IV	06 20 01 02.5–.69	39.60N–.05	33.40E–.06	12–8			¶16648213
CSEM	IV	06 20 01 02.2–.14	39.60N	33.40E	15	2.6		
DDA	IV	06 20 01 02.4	39.59N	33.40E	7	2.6		
ISK	IV	06 20 01 02.2	39.55N	33.25E	30	2.4		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=10.3km s-min=6.3km az=138.5.						
CSEM		Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=159.0.						
ISC	**IV**	**06 21 37 58.0–1.0**	**39.12N–.03**	**40.40E–.02**	**9–10**		**36**	**0-2**
ISCJB	IV	06 21 37 58.0–.46	39.13N–.03	40.40E–.03	6–5			¶16648214
DDA	IV	06 21 37 57.7	39.13N	40.43E	7	2.8		
CSEM	IV	06 21 37 57.7–.13	39.13N	40.40E	5	2.8		
ISK	IV	06 21 37 57.6	39.12N	40.42E	8	2.8		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.2km s-min=3.6km az=25.7.						
CSEM		Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=20.0.						
ISC	**IV**	**06 23 38 21.2–.99**	**40.25N–.03**	**37.89E–.03**	**16–9**		**33**	**0-2**
DDA	IV	06 23 38 20.8	40.25N	37.93E	7	2.6		¶16648216
ISK	IV	06 23 38 20.2	40.18N	37.91E	5	2.6		
ISCJB	IV	06 23 38 21.3–.50	40.25N–.03	37.87E–.04	12–5	2.6		
CSEM	IV	06 23 38 21.0–.14	40.25N	37.89E	15	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=163.9.						
CSEM		Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=142.0.						
ISC	**IV**	**07 00 00 58.1–.85**	**38.70N–.03**	**30.79E–.02**	**14–6**		**46**	**0-2**
DDA	IV	07 00 00 57.8	38.71N	30.76E	7	2.7		¶16648232
ISK	IV	07 00 00 57.8	38.71N	30.77E	5	2.9		
ISCJB	IV	07 00 00 58.4–.51	38.71N–.03	30.77E–.03	7–5	2.9		
CSEM	IV	07 00 00 58.2–.14	38.70N	30.77E	5	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=167.3.						
CSEM		Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=168.0.						
ISC	**IV**	**07 02 36 45.7–1.2**	**38.92N–.04**	**38.61E–.04**	**8–16**		**22**	**0-2**
DDA	IV	07 02 36 46.0	38.94N	38.57E	7	2.6		¶16648235
ISK	IV	07 02 36 45.6	38.94N	38.58E	5	2.6		
ISCJB	IV	07 02 36 46.1–.62	38.94N–.03	38.57E–.05	1–18	2.6		
CSEM	IV	07 02 36 46.1–.21	38.94N	38.58E	2	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=167.7.						
CSEM		Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=59.0.						
DDA	**IV**	**07 09 12 27.1**	**39.30N**	**28.44E**	**7**	**2.7**		
CSEM	IV	07 09 12 27.1	39.30N	28.44E	7	2.7		¶601583271
CSEM		Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.						
ISC	**IV**	**07 11 15 27.4–.86**	**38.42N–.03**	**34.04E–.03**	**13–6**		**40**	**0-2**
DDA	IV	07 11 15 27.1	38.43N	34.03E	7	2.7		¶16648244
CSEM	IV	07 11 15 27.4–.15	38.44N	34.05E	8	2.6		
ISK	IV	07 11 15 27.1	38.45N	34.05E	5	2.6		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=37.0.						
ISC	**IV**	**07 14 49 06.2–1.1**	**40.74N–.02**	**34.91E–.03**	**10–10**		**38**	**0-2**
ISK	IV	07 14 49 04.4	40.75N	34.91E	5	2.7		¶16648246
DDA	IV	07 14 49 05.9	40.73N	34.91E	7	2.6		
CSEM	IV	07 14 49 05.7–.15	40.74N	34.91E	8	2.6		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=103.0.						
ISC	**IV**	**07 15 08 31.6–.82**	**39.36N–.03**	**33.18E–.04**	**9–7**		**34**	**0-2**
ISK	IV	07 15 08 30.8	39.47N	33.21E	8	2.6		¶16648247
DDA	IV	07 15 08 31.8	39.38N	33.16E	7	2.5		
CSEM	IV	07 15 08 31.3–.19	39.43N	33.14E	12	2.6		
ISCJB	IV	07 15 08 32.2–.51	39.37N–.03	33.16E–.05	7–5	2.6		
ISC		Event type ke.						
CSEM		Event type ke.						
ISCJB		Event type ke.						
ISC	**IV**	**07 18 58 13.2–1.1**	**38.13N–.02**	**30.72E–.02**	**8–9**		**60**	**0-2**
DDA	IV	07 18 58 12.7	38.12N	30.74E	5	2.6		¶16648251
ISK	IV	07 18 58 12.6	38.12N	30.75E	8	2.8		
CSEM	IV	07 18 58 13.2–.17	38.12N	30.74E	8	2.8		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=111.0.						
ISC	**IV**	**07 21 10 58.6–.88**	**38.84N–.03**	**27.93E–.03**	**8–8**		**36**	**0-3**
ISCJB	IV	07 21 10 58.5–.49	38.85N–.04	27.95E–.04	6–6			¶16648253
CSEM	IV	07 21 10 58.6–.14	38.85N	27.94E	5	2.7		
ISK	IV	07 21 10 58.0	38.85N	27.95E	8	2.7		
DDA	IV	07 21 10 58.0	38.89N	27.95E	5	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=37.7.						
CSEM		Event type ke. Error ellipse: s-maj=3.1km s-min=3.0km az=41.0.						
ISC	**IV**	**08 00 08 19.9–1.0**	**40.25N–.04**	**27.17E–.03**	**17–9**		**36**	**0-1**
ISK	IV	08 00 08 19.7	40.24N	27.15E	7	2.7		¶16648298
DDA	IV	08 00 08 20.1	40.26N	27.20E	7	2.9		
CSEM	IV	08 00 08 20.0–.13	40.24N	27.15E	8	2.7		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=29.0.						
ISC	**IV**	**08 01 51 46.0–.96**	**39.04N–.03**	**31.07E–.03**	**17–7**		**39**	**0-2**
ISK	IV	08 01 51 45.2	38.98N	30.98E	11	2.6		¶16648300
ISCJB	IV	08 01 51 46.5–.52	39.05N–.03	31.06E–.04	11–5	2.6		
DDA	IV	08 01 51 46.5	39.04N	30.98E	7	2.6		
CSEM	IV	08 01 51 46.3–.12	39.03N	31.03E	15	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=135.8.						
CSEM		Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=40.0.						
ISC	**IV**	**08 02 36 53.7–1.0**	**39.00N–.01**	**26.45E–.02**	**6–9**		**130**	**0-3**
ATH	IV	08 02 36 53.5	38.98N	26.49E	22–1	2.2L		¶16648302
THE	IV	08 02 36 53.9	38.98N	26.49E	1–1	2.4L		
ISCJB	IV	08 02 36 53.8–.40	38.98N–.02	26.49E–.03	2–4	2.4L		
ISK	IV	08 02 36 53.6	38.99N	26.48E	9	3.0		
DDA	IV	08 02 36 53.8	38.98N	26.51E	25	2.9		
CSEM	IV	08 02 36 54.2–.14	38.98N	26.48E	5	2.4L		
ISC		Event type ke.						
ATH		Event type ke. Error ellipse: s-maj=3.4km s-min=1.2km az=249.0.						
THE		Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=91.0.						
ISCJB		Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=153.9.						
CSEM		Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=61.0.						
ISC	**IV**	**08 03 03 01.9–1.1**	**36.28N–.02**	**35.56E–.02**	**7–9**		**136**	**0-4**
DDA	IV	08 03 03 01.5	36.33N	35.55E	9	3.3L		¶601711082
NSSC	IV	08 03 03 01.8–1.4	36.31N	35.59E	3–4	2.8L,1.3		
ISCJB	IV	08 03 03 02.3–.50	36.29N–.02	35.57E–.02	11–3	2.8L,1.3		
CSEM	IV	08 03 03 02.5–.12	36.29N	35.57E	10	3.2,1.3		
ISK	IV	08 03 03 02.1	36.23N	35.62E	19	3.2,1.3		
ISC		Event type ke.						
NSSC		Error ellipse: s-maj=3.4km s-min=5.4km az=-1.0.						
ISCJB		Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=144.3.						
CSEM		Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=48.0.						
ISC	**IV**	**08 09 36 04.0–1.1**	**37.12N–.04**	**37.43E–.03**	**11–9**		**26**	**0-1**
ISK	IV	08 09 36 01.0	36.97N	37.54E	5	2.7		¶16648310
DDA	IV	08 09 36 04.5	37.16N	37.40E	7	2.8		
CSEM	IV	08 09 36 04.6–.40	37.10N	37.40E	10	2.8		
ISCJB	IV	08 09 36 05.1–.71	37.11N–.05	37.37E–.04	13–5	2.8		
ISC		Event type ke.						
CSEM		Event type ke.						
ISCJB		Event type ke.						
ISC	**IV**	**08 09 56 03.5–1.0**	**37.04N–.03**	**34.38E–.03**	**10–10**		**29**	**0-2**
ISK	IV	08 09 56 02.4	37.04N	34.35E	2	2.8		¶16648311
ISCJB	IV	08 09 56 03.6–.58	37.03N–.03	34.39E–.04	8–8	2.8		
CSEM	IV	08 09 56 03.6–.24	37.03N	34.37E	10	2.8		
DDA	IV	08 09 56 03.1	37.02N	34.42E	7	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.8km s-min=5.0km az=21.7.						
CSEM		Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=106.0.						
ISC	**IV**	**08 10 06 41.2–1.3**	**37.16N–.05**	**30.53E–.08**	**4–11**		**22**	**0-2**
ISK	IV	08 10 06 35.9	37.02N	30.98E	20	2.8		¶16648312
DDA	IV	08 10 06 38.2	36.96N	30.70E	7	2.6		
CSEM	IV	08 10 06 41.8–.28	37.20N	30.48E	2	2.6		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=12.6km s-min=4.5km az=119.0.						
ISC	**IV**	**08 10 07 36.8–1.2**	**37.99N–.03**	**35.61E–.03**	**1–12**		**32**	**1-2**
ISK	IV	08 10 07 35.3	37.97N	35.57E	5	2.9		¶16648313
CSEM	IV	08 10 07 36.4–.27	37.99N	35.59E	8	2.9		
DDA	IV	08 10 07 37.2	38.05N	35.59E	7	2.6		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=34.0.						
ISC	**IV**	**08 10 20 14.9–1.1**	**37.07N–.02**	**29.07E–.02**	**4–9**		**77**	**0-2**
ISK	IV	08 10 20 14.3	37.05N	29.09E	5	2.7		¶16648314
DDA	IV	08 10 20 15.3	37.09N	29.07E	7	2.8		
CSEM	IV	08 10 20 15.2–.13	37.07N	29.09E	5	2.5L		
THE	IV	08 10 20 16.2	36.98N	29.00E	1–1	2.5L		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=6.0.						
THE		Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=55.0.						
ISC	**IV**	**08 11 59 28.2–.91**	**38.45N–.03**	**28.52E–.03**	**11–6**		**34**	**0-1**
ISK	IV	08 11 59 27.6	38.42N	28.51E	7	2.1		¶16648318
DDA	IV	08 11 59 28.1	38.50N	28.49E	10	2.6		
CSEM	IV	08 11 59 28.3–.23	38.47N	28.50E	8	2.1		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=6.1km s-min=4.0km az=139.0.						
ISC	**IV**	**08 17 09 45.5–1.0**	**39.98N–.03**	**39.87E–.03**	**12**		**25**	**0-2**
ISCJB	IV	08 17 09 45.9–.55	39.98N–.04	39.87E–.04	12			¶16648324
DDA	IV	08 17 09 45.7	39.99N	39.90E	7	2.7		
ISK	IV	08 17 09 45.2	39.98N	39.91E	9	2.7		
CSEM	IV	08 17 09 45.6–.24	39.97N	39.88E	10	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=139.9.						
CSEM		Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=147.0.						
ISC	**IV**	**08 17 22 26.7–.83**	**37.03N–.02**	**35.90E–.02**	**17–6**		**56**	**0-2**
ISCJB	IV	08 17 22 26.7–.43	37.02N–.03	35.89E–.04	11–5			¶16648325
CSEM	IV	08 17 22 26.7–.12	37.04N	35.91E	15	2.5		
NSSC	IV	08 17 22 26.2–1.2	37.01N	35.87E	3–10	2.0L		
ISK	IV	08 17 22 26.2	37.02N	35.90E	16	2.5		
DDA	IV	08 17 22 27.1	36.98N	35.94E	7	3.0		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=31.3.						
CSEM		Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=47.0.						
NSSC		Error ellipse: s-maj=11.8km s-min=6.8km az=-1.0.						
ISC	**IV**	**08 17 34 53.8–.83**	**37.55N–.04**	**42.70E–.02**	**15**		**58**	**0-3**
ISK	IV	08 17 34 51.7	37.45N	42.71E	2	3.3L		¶16648326
DDA	IV	08 17 34 52.7	37.54N	42.68E	7	3.5L		
ISCJB	IV	08 17 34 53.8–.42	37.49N–.04	42.75E–.03	15	3.5L		
CSEM	IV	08 17 34 53.2–.22	37.54N	42.74E	2	3.3L		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=176.3.						
CSEM		Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=165.0.						
ISC	**IV**	**09 00 09 47.2–.96**	**39.48N–.03**	**37.17E–.03**	**13–10**		**27**	**0-1**
DDA	IV	09 00 09 46.8	39.50N	37.18E	7	2.7		¶16648366
ISK	IV	09 00 09 46.7	39.46N	37.13E	5	2.4		
ISCJB	IV	09 00 09 47.1–.53	39.47N–.03	37.18E–.04	13–7	2.4		
CSEM	IV	09 00 09 47.2–.18	39.47N	37.18E	5	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.8km s-min=4.9km az=10.9.						
CSEM		Event type ke. Error ellipse: s-maj=3.9km s-min=3.4km az=100.0.						
ISC	**IV**	**09 02 10 16.7–.88**	**39.96N–.04**	**38.82E–.03**	**8**		**24**	**0-1**
ISK	IV	09 02 10 15.6	39.96N	38.76E	5	2.6		¶16648368
ISCJB	IV	09 02 10 17.3–.57	39.90N–.04	38.81E–.04	8	2.6		
CSEM	IV	09 02 10 17.0–.41	39.93N	38.81E	10	2.6		
DDA	IV	09 02 10 17.7	39.88N	38.80E	16	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.5km s-min=4.2km az=13.1.						
CSEM		Event type ke. Error ellipse: s-maj=10.7km s-min=8.2km az=171.0.						
ISK	**IV**	**09 08 26 01.2**	**40.14N**	**29.85E**	**4**	**2.0**		
CSEM	IV	09 08 26 01.7–.14	40.13N	29.87E	2	2.0		¶16648371
CSEM		Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=44.0.						
ISC	**IV**	**09 08 27 57.6–.93**	**38.45N–.03**	**29.11E–.02**	**14–8**		**32**	**0-1**
ISCJB	IV	09 08 27 57.4–.55	38.44N–.03	29.12E–.04	11–5			¶16648372
DDA	IV	09 08 27 57.1	38.44N	29.11E	7	2.5		

CSEM IV 09 08 27 57.5–.12 38.44N 29.12E 12 2.5
ISK IV 09 08 27 57.4 38.45N 29.11E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=156.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=152.0.
ISC IV 09 08 29 25.6–1.1 40.72N–.04 41.23E–.03 11–12 38 0-2
DDA IV 09 08 29 26.5 40.73N 41.29E 7 2.6 ¶16648373
CSEM IV 09 08 29 26.0–.14 40.72N 41.23E 5 2.6
ISK IV 09 08 29 26.3 40.71N 41.18E 5 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.5km az=137.0.
ISC IV 09 13 33 41.5–1.0 39.95N–.03 38.74E–.02 14–9 38 0-2
ISK IV 09 13 33 42.3 40.03N 38.79E 14 2.9 ¶16648380
ISCJB IV 09 13 33 43.1–.54 39.85N–.03 38.71E–.03 7–7 2.9
CSEM IV 09 13 33 43.0–.33 39.87N 38.71E 10 2.9
DDA IV 09 13 33 43.1 39.85N 38.64E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=10.3.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=6.7km az=152.0.
ISC IV 09 16 46 48.1–.85 39.50N–.01 26.03E–.02 14–7 102 0-3
ATH IV 09 16 46 47.9 39.52N 26.05E 14–6 2.1L ¶16648382
ISK IV 09 16 46 47.7 39.53N 26.00E 6 2.9
THE IV 09 16 46 48.3 39.52N 26.04E 1–1 2.2L
CSEM IV 09 16 46 48.1–.11 39.51N 26.05E 5 2.1L
ISCJB IV 09 16 46 48.2–.43 39.51N–.02 26.06E–.03 7–3 2.1L
DDA IV 09 16 46 48.7 39.54N 26.13E 8 3.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.4km s-min=0.8km az=191.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.4km az=103.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=176.6.
ISC IV 09 17 27 09.5–.92 39.66N–.03 38.48E–.03 14–7 46 0-1
ISCJB IV 09 17 27 09.7–.46 39.67N–.02 38.48E–.03 10–4 ¶16648383
CSEM IV 09 17 27 09.6–.24 39.66N 38.49E 10 2.7
DDA IV 09 17 27 09.4 39.63N 38.47E 7 2.8
ISK IV 09 17 27 09.7 39.66N 38.49E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=142.6.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=51.0.
ISC IV 09 19 12 30.6–1.0 38.92N–.02 27.96E–.02 7–8 50 0-2
DDA IV 09 19 12 30.4 38.93N 27.97E 7 2.7 ¶16648384
ISK IV 09 19 12 30.8 38.89N 27.97E 5 2.6
ISCJB IV 09 19 12 31.0–.52 38.91N–.03 27.95E–.03 2–5 2.6
CSEM IV 09 19 12 31.2–.14 38.91N 27.96E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=160.4.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=165.0.
ISC IV 09 22 33 34.4–.85 37.74N–.03 37.52E–.03 11 35 0-2
ISK IV 09 22 33 34.4 37.73N 37.43E 5 3.0 ¶16648390
DDA IV 09 22 33 34.1 37.73N 37.52E 7 2.9L
ISCJB IV 09 22 33 35.3–.46 37.71N–.04 37.48E–.05 11 2.9L
CSEM IV 09 22 33 35.2–.20 37.71N 37.50E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.9km az=42.6.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=133.0.
ISC IV 09 23 54 45.2–1.0 37.88N–.01 27.29E–.01 6–9 187 0-4
ISK IV 09 23 54 45.4 37.90N 27.32E 5 3.2 ¶16648391
ATH IV 09 23 54 45.7 37.86N 27.21E 23–1 2.9L
THE IV 09 23 54 45.4 37.86N 27.26E 0–0 2.9L
DDA IV 09 23 54 45.1 37.85N 27.31E 11 3.2L
CSEM IV 09 23 54 46.3–.15 37.86N 27.26E 10 3.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.2km az=245.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=79.0.
ISC IV 10 01 16 30.4–1.1 38.89N–.03 29.16E–.04 9 20 1-2
ISCJB IV 10 01 16 30.0–.62 38.89N–.03 29.17E–.06 9 ¶16648416
ISK IV 10 01 16 29.9 38.92N 29.12E 6 2.6
DDA IV 10 01 16 29.9 38.89N 29.09E 7 2.6
CSEM IV 10 01 16 30.1–.09 38.89N 29.16E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=13.2.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=95.0.
ISC IV 10 04 30 18.1–.82 40.42N–.01 26.09E–.02 17–6 102 0-2
ISK IV 10 04 30 17.6 40.42N 26.11E 18 2.7 ¶16648417
ATH IV 10 04 30 17.5 40.42N 26.06E 28–2 2.1L
DDA IV 10 04 30 18.5 40.36N 26.17E 7 3.0L
CSEM IV 10 04 30 18.0–.07 40.42N 26.09E 15 2.1L
ISCJB IV 10 04 30 18.3–.32 40.42N–.02 26.08E–.03 19–4 2.1L
THE IV 10 04 30 18.7 40.41N 26.04E 14–0 2.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=296.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=104.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=10.0.
THE Event type ke. Error ellipse: s-maj=0.5km s-min=0.3km az=76.0.
ISC IV 10 05 17 28.6–1.5 37.66N–.06 37.62E–.07 8–13 22 1-2
ISCJB IV 10 05 17 29.3–.86 37.71N–.06 37.54E–.09 0–9 ¶16648419
CSEM IV 10 05 17 29.4–.27 37.71N 37.54E 5 2.7
ISK IV 10 05 17 29.1 37.71N 37.52E 6 2.7
DDA IV 10 05 17 29.4 37.71N 37.52E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.0km az=37.4.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=3.5km az=120.0.
ISC IV 10 11 59 09.2–1.2 41.40N–.04 35.84E–.03 7–9 36 0-2
ISK IV 10 11 59 07.6 41.50N 36.00E 6 2.5 ¶16648424
DDA IV 10 11 59 08.9 41.40N 35.81E 7 2.8L
ISCJB IV 10 11 59 09.7–.65 41.40N–.04 35.82E–.04 4–6 2.8L
CSEM IV 10 11 59 09.7–.33 41.37N 35.83E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=24.9.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=5.0km az=28.0.
ISC IV 10 12 37 39.9–1.0 37.18N–.04 37.13E–.06 7–10 20 0-1
CSEM IV 10 12 37 36.7–.33 37.21N 37.47E 8 2.2 ¶16648427
ISK IV 10 12 37 36.9 37.22N 37.42E 10 2.2
DDA IV 10 12 37 39.5 37.17N 37.12E 7 2.6L
ISCJB IV 10 12 37 40.0–.89 37.15N–.04 37.13E–.07 9–8 2.6L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 10 13 57 30.9–1.2 40.59N–.03 37.13E–.03 6–10 40 0-2
ISK IV 10 13 57 30.8 40.57N 37.16E 9 2.4 ¶16648429
ISCJB IV 10 13 57 31.6–.52 40.57N–.03 37.17E–.04 7–6 2.4
DDA IV 10 13 57 31.7 40.54N 37.18E 7 3.0L
CSEM IV 10 13 57 31.6–.15 40.56N 37.16E 10 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=41.9.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=32.0.
ISC IV 10 20 33 50.7–1.2 38.53N–.03 31.11E–.02 4–11 42 0-2
ISCJB IV 10 20 33 51.5–.54 38.59N–.03 31.16E–.04 1–6 ¶16648433
DDA IV 10 20 33 51.4 38.62N 31.15E 7 2.6
CSEM IV 10 20 33 51.5–.21 38.57N 31.15E 2 2.6
ISK IV 10 20 33 51.5 38.57N 31.13E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=43.3.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=23.0.
ISC IV 10 22 39 23.7–1.1 37.70N–.02 37.13E–.03 8–10 38 0-2
DDA IV 10 22 39 23.1 37.68N 37.15E 7 2.8 ¶16648434
ISK IV 10 22 39 23.5 37.73N 37.11E 5 2.8
CSEM IV 10 22 39 23.6–.28 37.70N 37.15E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=104.0.

ISC IV 11 01 54 06.8–1.2 37.48N–.08 36.31E–.04 27–9 28 0-2
ISK IV 11 01 54 05.5 37.50N 36.34E 24 2.5 ¶16648484
CSEM IV 11 01 54 07.0–.48 37.36N 36.27E 2 2.6
DDA IV 11 01 54 08.0 37.42N 36.36E 6 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.2km s-min=8.9km az=19.0.
ISC IV 11 02 58 11.8–.93 37.83N–.03 27.32E–.03 13–7 33 0-2
CSEM IV 11 02 58 12.5–.34 37.86N 27.35E 2 2.7 ¶16648485
DDA IV 11 02 58 12.2 37.83N 27.32E 7 2.7
ISK IV 11 02 58 12.0 37.89N 27.38E 12 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=5.8km az=82.0.
ISC IV 11 03 02 09.2–1.1 38.47N–.03 39.34E–.03 7–10 31 0-2
DDA IV 11 03 02 08.9 38.44N 39.22E 7 2.6 ¶16648486
CSEM IV 11 03 02 09.2–.13 38.47N 39.41E 2 2.6
ISK IV 11 03 02 09.8 38.50N 39.42E 11 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.9km az=66.0.
ISC IV 11 07 13 11.3–1.2 37.16N–.03 28.71E–.03 4–10 40 0-2
ISK IV 11 07 13 09.7 37.13N 28.75E 5 2.7 ¶16648489
CSEM IV 11 07 13 11.3–.16 37.14N 28.73E 8 2.5
DDA IV 11 07 13 11.6 37.16N 28.68E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=33.0.
DDA IV 11 11 22 07.3 37.61N 35.80E 7 2.7
¶601583389
ISC IV 11 14 27 57.2–1.2 40.89N–.03 30.41E–.02 14–11 42 0-2
ISCJB IV 11 14 27 57.7–.50 40.88N–.04 30.39E–.04 11–6 ¶16648498
CSEM IV 11 14 27 57.7–.13 40.89N 30.40E 10 2.7
ISK IV 11 14 27 57.0 40.90N 30.42E 7 2.7
DDA IV 11 14 27 58.1 40.91N 30.45E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=29.2.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=25.0.
ISC IV 11 15 27 10.2–1.1 41.06N–.02 34.36E–.03 10–12 42 0-2
DDA IV 11 15 27 10.7 41.02N 34.40E 7 2.7 ¶16648501
CSEM IV 11 15 27 10.9–.26 41.04N 34.40E 2 2.7
ISK IV 11 15 27 10.2 41.05N 34.44E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=137.0.
ISC IV 12 02 36 45.3–.88 39.53N–.02 26.03E–.03 14–7 77 0-2
ISK IV 12 02 36 44.7 39.53N 25.96E 2 1.9L ¶16648545
ISCJB IV 12 02 36 45.6–.46 39.51N–.02 26.03E–.04 3–5 1.9L
THE IV 12 02 36 45.8 39.51N 26.03E 3–1 1.8L
CSEM IV 12 02 36 45.7–.12 39.52N 26.03E 2 1.7L
ATH IV 12 02 36 45.6 39.52N 26.05E 4–4 1.7L
DDA IV 12 02 36 46.3 39.54N 26.12E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.0km az=172.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.4km az=230.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=79.0.
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=0.8km az=100.0.
ISC IV 12 03 03 17.1–1.0 38.97N–.02 29.84E–.02 5–10 91 0-2
DDA IV 12 03 03 16.8 38.99N 29.83E 7 2.7 ¶16648548
CSEM IV 12 03 03 17.1–.11 38.95N 29.84E 2 2.7
ISK IV 12 03 03 17.2 38.93N 29.82E 10 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=152.0.
ISC IV 12 05 32 26.3–1.2 39.38N–.03 40.88E–.03 18–4 32 0-2
ISK IV 12 05 32 26.7 39.41N 40.72E 8 2.7 ¶16648551
ISCJB IV 12 05 32 27.3–.53 39.40N–.03 40.80E–.05 9–7 2.7
DDA IV 12 05 32 27.4 39.39N 40.78E 7 2.7
CSEM IV 12 05 32 27.4–.23 39.40N 40.76E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.4km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=130.0.
ISC IV 12 06 45 22.2–.83 38.91N–.02 27.94E–.02 10–6 70 0-2
ISCJB IV 12 06 45 22.3–.40 38.91N–.02 27.95E–.03 5–4 ¶601583402
CSEM IV 12 06 45 22.4–.08 38.90N 27.95E 8 2.8
DDA IV 12 06 45 22.0 38.90N 27.95E 9 2.8
ISK IV 12 06 45 22.0 38.89N 27.95E 12 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=156.9.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=148.0.
ISC IV 12 07 18 41.2–1.4 39.81N–.02 38.59E–.05 5–15 43 0-2
ISCJB IV 12 07 18 42.4–.47 39.86N–.03 38.69E–.04 11–5 ¶16648555
CSEM IV 12 07 18 42.2–.22 39.83N 38.70E 2 3.0
ISK IV 12 07 18 42.4 39.88N 38.68E 5 3.0
DDA IV 12 07 19 27.8 39.81N 38.68E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=42.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=134.0.
ISC IV 12 08 21 10.5–1.1 37.34N–.04 28.02E–.04 11 16 0-2
DDA IV 12 08 21 09.6 37.28N 28.11E 8 2.6 ¶16648556
ISCJB IV 12 08 21 10.3–.76 37.29N–.04 28.03E–.06 11 2.6
CSEM IV 12 08 21 10.6–.35 37.30N 28.02E 10 2.8
ISK IV 12 08 21 10.5 37.25N 28.01E 4 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.3km az=173.4.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=7.4km az=61.0.
ISC IV 12 09 20 57.2–1.5 37.30N–.04 28.36E–.05 2–12 27 0-2
ISK IV 12 09 20 57.8 37.16N 28.36E 19 2.8 ¶16648558
ISCJB IV 12 09 20 59.8–.68 37.21N–.04 28.23E–.06 3–8 2.8
CSEM IV 12 09 20 59.6–.41 37.23N 28.29E 10 2.8
DDA IV 12 09 21 00.0 37.20N 28.19E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.4km az=143.7.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=6.1km az=56.0.
ISC IV 12 14 35 05.7–1.2 39.52N–.03 33.30E–.03 2–13 38 0-2
ISK IV 12 14 35 04.9 39.51N 33.33E 4 2.8 ¶16648567
ISCJB IV 12 14 35 06.0–.60 39.56N–.04 33.28E–.04 5–6 2.8
CSEM IV 12 14 35 05.8–.23 39.54N 33.28E 5 2.8
DDA IV 12 14 35 06.3 39.55N 33.27E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.2km az=158.5.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.2km az=144.0.
ISC IV 12 15 16 26.0–1.2 39.98N–.03 32.39E–.02 2–11 34 0-2
ISK IV 12 15 16 25.5 39.97N 32.41E 7 2.7 ¶16648568
CSEM IV 12 15 16 26.2–.23 39.96N 32.41E 10 2.7
DDA IV 12 15 16 27.4 39.88N 32.26E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=21.0.
ISC IV 12 19 34 36.9–.94 37.5N–.10 38.50E–.04 9 19 1-2
CSEM IV 12 19 34 35.9–.48 37.44N 38.55E 2 2.8 ¶16648576
ISK IV 12 19 34 35.5 37.49N 38.47E 5 2.8
ISCJB IV 12 19 34 36.8–.64 37.41N–.08 38.54E–.05 9 2.8
DDA IV 12 19 34 36.1 37.33N 38.53E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.5km s-min=10.5km az=155.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=4.6km az=159.8.
ISC IV 12 20 24 17.0–1.1 37.95N–.03 27.48E–.03 10 23 0-1
ISCJB IV 12 20 24 17.6–.61 37.95N–.04 27.47E–.05 10 ¶16648577
CSEM IV 12 20 24 17.6–.11 37.95N 27.47E 15 2.3
ISK IV 12 20 24 17.4 37.96N 27.48E 17 2.3
DDA IV 12 20 24 18.2 37.91N 27.50E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.1km az=41.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=71.0.
ISC IV 12 21 49 09.3–1.2 40.06N–.05 41.43E–.03 12–10 23 0-2
ISCJB IV 12 21 49 09.6–.75 40.06N–.06 41.43E–.06 7–8 ¶16648579
CSEM IV 12 21 49 09.2–.51 40.05N 41.51E 10 2.8

ISK IV 12 21 49 09.5 39.99N 41.40E 18 2.8
DDA IV 12 21 49 10.5 40.16N 41.38E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.2km az=15.5.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=12.2km az=131.0.
ISC IV 13 02 17 21.7–1.0 39.24N–.03 34.31E–.02 9–10 46 0-2
CSEM IV 13 02 17 21.4–.13 39.23N 34.32E 8 2.7 ¶16648619
DDA IV 13 02 17 21.4 39.23N 34.30E 7 2.7
ISK IV 13 02 17 21.0 39.23N 34.30E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=142.0.
ISC IV 13 04 43 57.4–1.2 37.93N–.04 27.27E–.04 6–17 30 0-1
ISCJB IV 13 04 43 57.6–.55 37.90N–.03 27.30E–.04 9–6 ¶16648623
DDA IV 13 04 43 57.7 37.88N 27.30E 7 2.2
CSEM IV 13 04 43 57.5–.27 37.92N 27.28E 8 2.2
ISK IV 13 04 43 57.8 37.92N 27.33E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=155.2.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.6km az=111.0.
ISC IV 13 06 48 04.3–1.3 37.48N–.04 30.01E–.04 11–10 24 0-2
CSEM IV 13 06 48 03.6–.24 37.44N 29.96E 2 1.8L ¶16648624
ISK IV 13 06 48 03.8 37.45N 30.02E 11 1.8L
ISCJB IV 13 06 48 04.4–1.1 37.43N–.07 30.04E–.08 13–8 1.8L
DDA IV 13 06 48 09.7 37.34N 30.80E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=5.0km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.9km az=141.5.
ISC IV 13 07 55 04.9–1.0 39.08N–.02 29.15E–.02 10–11 40 0-1
ISK IV 13 07 55 04.8 39.07N 29.19E 6 2.4 ¶16648625
ISCJB IV 13 07 55 05.5–.50 39.12N–.03 29.10E–.04 6–6 2.4
DDA IV 13 07 55 05.4 39.13N 29.08E 7 2.6
CSEM IV 13 07 55 05.6–.17 39.10N 29.12E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=145.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=91.0.
ISC IV 13 10 56 23.8–.99 39.85N–.02 38.65E–.02 11–9 57 0-2
ISCJB IV 13 10 56 23.7–.45 39.86N–.02 38.69E–.03 6–5 ¶16648631
DDA IV 13 10 56 23.5 39.83N 38.70E 11 3.0L
CSEM IV 13 10 56 23.8–.13 39.86N 38.68E 10 2.8
ISK IV 13 10 56 23.3 39.87N 38.67E 9 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.8km az=11.1.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=114.0.
ISC IV 13 15 09 28.3–.97 37.24N–.05 28.15E–.04 10–10 25 0-1
ISK IV 13 15 09 27.4 37.16N 28.11E 14 2.6 ¶16648637
ISCJB IV 13 15 09 28.6–.64 37.24N–.05 28.23E–.07 11–7 2.6
DDA IV 13 15 09 28.8 37.23N 28.18E 7 2.2
CSEM IV 13 15 09 28.9–.24 37.26N 28.28E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=5.4km az=141.8.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=3.9km az=49.0.
ISC IV 13 15 31 59.4–.86 38.64N–.02 30.93E–.02 12–5 54 0-2
ISK IV 13 15 31 58.7 38.68N 30.91E 7 2.8 ¶16648640
IASPE IV 13 15 31 59.5–.95 38.64N–.02 30.93E–.02 11–6 2.8
ISCJB IV 13 15 31 59.5–.45 38.64N–.02 30.91E–.03 8–4 2.8
CSEM IV 13 15 31 59.4–.14 38.65N 30.91E 8 2.7
DDA IV 13 15 31 59.4 38.63N 30.94E 11 2.7
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=134.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=11.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=179.0.
ISC IV 13 16 56 27.8–1.2 37.84N–.03 32.03E–.03 3–11 40 0-2
DDA IV 13 16 56 27.9 37.84N 32.10E 7 2.7 ¶16648641
CSEM IV 13 16 56 27.8–.17 37.84N 32.04E 2 2.7
ISK IV 13 16 56 27.4 37.83N 32.08E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=51.0.
ISC IV 13 17 26 30.3–.96 39.12N–.02 29.07E–.02 9–8 65 0-2
ISK IV 13 17 26 29.7 39.13N 29.07E 5 2.9 ¶16648642
DDA IV 13 17 26 29.8 39.11N 29.06E 7 2.6
ISCJB IV 13 17 26 30.1–.46 39.12N–.03 29.07E–.03 7–5 2.6
CSEM IV 13 17 26 30.2–.08 39.12N 29.07E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=143.3.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=69.0.
ISC IV 13 18 09 41.8–1.1 40.65N–.02 35.55E–.02 6–10 60 0-3
ISK IV 13 18 09 41.3 40.66N 35.54E 9 2.8 ¶16648643
CSEM IV 13 18 09 42.0–.13 40.64N 35.53E 5 2.7
DDA IV 13 18 09 42.0 40.65N 35.54E 12 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=112.0.
ISC IV 13 19 31 11.7–1.0 37.85N–.03 27.34E–.04 12–9 22 0-1
ISCJB IV 13 19 31 11.7–.80 37.86N–.04 27.32E–.05 10–8 ¶16648644
ISK IV 13 19 31 11.8 37.87N 27.37E 14 2.4
DDA IV 13 19 31 11.6 37.85N 27.33E 7 2.3
CSEM IV 13 19 31 12.2–.19 37.85N 27.33E 2 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=6.3km az=35.9.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.5km az=78.0.
ISC IV 13 19 33 47.3–.84 37.84N–.02 27.29E–.02 14–6 81 0-3
ATH IV 13 19 33 46.9 37.86N 27.29E 11–6 2.6L ¶16648645
ISK IV 13 19 33 46.9 37.88N 27.32E 3 2.9
DDA IV 13 19 33 46.7 37.86N 27.28E 7 2.8
CSEM IV 13 19 33 47.5–.11 37.86N 27.29E 2 2.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.2km s-min=1.3km az=264.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=62.0.
ISK IV 13 19 46 31.8 37.87N 27.37E 22 2.3
CSEM IV 13 19 46 31.8 37.87N 27.37E 22 2.3 ¶16648646
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 13 22 56 49.7–.94 38.57N–.03 31.84E–.03 12–7 34 0-2
ISCJB IV 13 22 56 49.4–.55 38.58N–.04 31.83E–.04 3–9 ¶16648651
DDA IV 13 22 56 49.6 38.59N 31.82E 7 2.5
CSEM IV 13 22 56 49.6–.16 38.58N 31.85E 8 2.5
ISK IV 13 22 56 49.4 38.59N 31.89E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.4km az=29.7.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=39.0.
ISC IV 13 23 49 15.0–1.1 37.33N–.02 28.95E–.03 4–10 39 0-1
CSEM IV 13 23 49 14.9–.14 37.33N 28.99E 10 2.7 ¶16648652
ISK IV 13 23 49 14.4 37.32N 28.95E 7 2.7
DDA IV 13 23 49 15.6 37.30N 28.93E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=88.0.
ISC IV 14 03 19 19.7–1.1 37.82N–.02 29.26E–.02 6–9 62 0-2
ISK IV 14 03 19 18.4 37.79N 29.30E 8 3.0 ¶16648688
CSEM IV 14 03 19 19.0–.21 37.78N 29.28E 5 3.0
DDA IV 14 03 19 19.2 37.82N 29.26E 3 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.5km az=128.0.
ISC IV 14 06 25 58.3–.89 37.23N–.03 27.69E–.03 16–8 34 0-1
ISCJB IV 14 06 25 58.6–.50 37.26N–.03 27.68E–.04 10–7 ¶16648691
CSEM IV 14 06 25 58.9–.16 37.27N 27.67E 8 2.6
ISK IV 14 06 25 58.3 37.28N 27.67E 5 2.6
DDA IV 14 06 25 58.5 37.26N 27.67E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.0km az=40.1.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=118.0.

DDA IV 14 10 41 56.7 38.27N 38.08E 7 1.8
¶601583473
ISC IV 14 11 21 27.0–.92 37.90N–.02 27.42E–.03 11–8 37 0-2
ISK IV 14 11 21 26.6 37.91N 27.43E 8 2.3 ¶16648695
CSEM IV 14 11 21 27.3–.12 37.91N 27.43E 2 2.6
DDA IV 14 11 21 27.4 37.88N 27.40E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=63.0.
ISC IV 14 12 16 37.4–.93 38.57N–.03 42.80E–.02 13–9 39 0-2
DDA IV 14 12 16 37.0 38.56N 42.79E 7 2.8L ¶16648697
ISK IV 14 12 16 36.3 38.54N 42.79E 5 2.7
ISCJB IV 14 12 16 37.2–.53 38.56N–.03 42.79E–.04 5–7 2.7
CSEM IV 14 12 16 37.0–.16 38.55N 42.81E 10 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=154.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=168.0.
ISC IV 14 13 22 17.8–1.2 38.40N–.07 37.82E–.05 18–4 16 0-1
CSEM IV 14 13 22 17.9–.10 38.33N 37.79E 13–1 2.7 ¶16648698
ISK IV 14 13 22 17.3 38.33N 37.80E 10 2.7
ISCJB IV 14 13 22 18.3–.73 38.34N–.07 37.77E–.08 17–8 2.7
DDA IV 14 13 22 19.9 38.40N 37.92E 6 2.6L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.0km az=33.0.
ISC IV 14 15 24 59.7–.91 39.80N–.04 40.70E–.03 11 18 0-2
ISCJB IV 14 15 25 00.3–.60 39.81N–.04 40.78E–.05 11 ¶16648700
CSEM IV 14 15 25 00.0–.49 39.78N 40.65E 10 2.5
ISK IV 14 15 25 00.1 39.89N 40.78E 20 2.5
DDA IV 14 15 25 01.5 40.00N 40.85E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.0km az=167.3.
CSEM Event type ke. Error ellipse: s-maj=14.0km s-min=10.8km az=168.0.
ISC IV 14 15 35 22.6–.83 39.13N–.04 40.35E–.03 7 30 0-2
DDA IV 14 15 35 22.9 39.08N 40.37E 7 2.6 ¶16648701
ISK IV 14 15 35 22.3 39.12N 40.38E 3 2.7
ISCJB IV 14 15 35 23.1–.47 39.11N–.04 40.38E–.03 7 2.7
CSEM IV 14 15 35 23.1–.17 39.10N 40.39E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.2km az=159.0.
ISC IV 14 15 38 14.3–1.2 37.77N–.03 27.41E–.03 6–13 49 0-3
ISCJB IV 14 15 38 14.1–.63 37.78N–.04 27.37E–.05 4–6 ¶16648702
CSEM IV 14 15 38 14.6–.15 37.78N 27.40E 8 2.9
ISK IV 14 15 38 14.2 37.80N 27.44E 7 2.6L
DDA IV 14 15 38 14.1 37.78N 27.38E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.9km az=44.5.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=62.0.
ISC IV 14 15 50 41.4–1.2 38.46N–.03 28.44E–.03 3–11 42 0-2
ISCJB IV 14 15 50 41.8–.58 38.48N–.03 28.47E–.03 8–8 ¶16648703
DDA IV 14 15 50 41.7 38.51N 28.48E 7 2.6
CSEM IV 14 15 50 41.9–.21 38.48N 28.48E 8 2.8
ISK IV 14 15 50 41.1 38.45N 28.47E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=157.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=158.0.
ISC IV 14 17 08 43.0–.95 38.27N–.05 38.82E–.03 11 24 0-2
DDA IV 14 17 08 42.9 38.25N 38.82E 7 2.6 ¶16648705
CSEM IV 14 17 08 42.8–.20 38.27N 38.83E 12 2.7
ISK IV 14 17 08 42.8 38.28N 38.83E 10 2.7
ISCJB IV 14 17 08 43.0–.67 38.26N–.05 38.84E–.04 11 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 14 18 43 28.0–1.3 37.47N–.04 38.78E–.03 5–12 37 1-2
DDA IV 14 18 43 27.7 37.46N 38.76E 7 2.8 ¶16648708
ISCJB IV 14 18 43 28.4–.87 37.42N–.03 38.76E–.04 4–8 2.8
CSEM IV 14 18 43 28.8–.13 37.41N 38.83E 10 2.8
ISK IV 14 18 43 28.1 37.40N 38.79E 9 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=136.2.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=124.0.
ISC IV 14 19 40 24.3–1.1 37.39N–.05 38.63E–.03 13–10 19 0-2
CSEM IV 14 19 40 21.6–1.2 37.18N 38.04E 40 2.1L ¶601583482
ISCJB IV 14 19 40 24.6–1.2 37.37N–.06 38.65E–.04 7–7 2.1L
DDA IV 14 19 40 24.9 37.34N 38.55E 7 2.7
NSSC IV 14 19 40 30.5–.63 36.49N 38.99E 88–8 1.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=33.8km s-min=19.7km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.2km az=11.9.
NSSC Error ellipse: s-maj=4.9km s-min=3.5km az=-1.0.
ISC IV 14 20 04 16.2–1.3 39.36N–.03 40.81E–.04 3–12 32 0-2
ISK IV 14 20 04 17.7 39.37N 40.80E 3 2.8 ¶16648711
ISCJB IV 14 20 04 18.2–.52 39.40N–.03 40.82E–.05 3–9 2.8
DDA IV 14 20 04 18.2 39.37N 40.84E 7 2.7
CSEM IV 14 20 04 18.5–.25 39.38N 40.81E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.3km az=11.8.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=127.0.
ISC IV 14 20 54 09.3–1.0 39.36N–.03 41.05E–.03 17–9 30 0-2
ISK IV 14 20 54 07.9 39.35N 41.02E 2 2.8 ¶16648713
CSEM IV 14 20 54 09.8–.22 39.34N 41.07E 15 2.8
DDA IV 14 20 54 09.8 39.35N 41.03E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=139.0.
ISC IV 14 22 15 36.0–1.2 39.14N–.03 36.10E–.03 6–11 36 0-2
ISK IV 14 22 15 35.4 39.14N 36.09E 7 3.1 ¶16648715
ISCJB IV 14 22 15 36.5–.69 39.11N–.03 36.08E–.04 6–6 3.1
CSEM IV 14 22 15 36.4–.19 39.12N 36.08E 8 2.9
DDA IV 14 22 15 36.9 39.17N 35.99E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.6km az=143.3.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.8km az=148.0.
ISC IV 15 00 34 17.0–.99 39.44N–.03 39.02E–.02 11–10 30 0-1
ISK IV 15 00 34 15.2 39.46N 39.01E 25 2.2 ¶16648738
DDA IV 15 00 34 16.6 39.44N 39.01E 7 2.7
ISCJB IV 15 00 34 17.1–.53 39.44N–.03 39.02E–.04 9–6 2.7
CSEM IV 15 00 34 17.0–.24 39.42N 39.00E 10 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.6km az=154.7.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.6km az=135.0.
ISC IV 15 03 59 14.7–1.4 36.83N–.05 29.09E–.05 15–8 28 0-1
DDA IV 15 03 59 13.8 36.80N 28.95E 8 2.4L ¶16648742
CSEM IV 15 03 59 15.0–.66 36.48N 28.82E 10 2.6
ISK IV 15 03 59 15.6 36.88N 29.02E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.7km s-min=8.9km az=21.0.
ISC IV 15 06 23 36.6–1.3 37.21N–.05 36.35E–.03 5–12 32 0-1
ISK IV 15 06 23 34.8 37.77N 36.37E 29 2.6 ¶16648744
CSEM IV 15 06 23 35.0–.71 37.84N 36.39E 20 2.5
DDA IV 15 06 23 36.6 37.24N 36.35E 7 2.5
ISCJB IV 15 06 23 37.5–.57 37.28N–.04 36.35E–.04 8–7 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 15 06 37 51.4–1.2 39.70N–.04 41.99E–.03 14–9 23 0-1
CSEM IV 15 06 37 49.4–.62 39.54N 41.90E 5 2.5 ¶16648745
ISK IV 15 06 37 50.1 39.58N 41.95E 5 2.7
ISCJB IV 15 06 37 51.9–.65 39.68N–.04 41.96E–.05 21–7 2.7
DDA IV 15 06 37 52.0 39.77N 41.95E 7 2.5
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=16.3km s-min=8.7km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.9km az=5.7.
ISC IV 15 09 17 46.8–.93 37.25N–.04 28.23E–.03 12–7 28 0-1
ISK IV 15 09 17 45.8 37.29N 28.21E 2 2.8 ¶16648750
ISCJB IV 15 09 17 46.9–.61 37.23N–.06 28.24E–.05 13–7 2.8
DDA IV 15 09 17 46.9 37.20N 28.23E 7 2.5
CSEM IV 15 09 17 47.2–.21 37.24N 28.25E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.2km az=7.5.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=33.0.
ISC IV 15 10 33 14.3–1.3 37.23N–.06 28.30E–.04 19–3 21 0-1
ISK IV 15 10 33 14.3 37.12N 28.30E 21 2.6 ¶16648752
CSEM IV 15 10 33 14.3–.30 37.25N 28.32E 20 2.6
DDA IV 15 10 33 15.3 37.24N 28.23E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=4.8km az=33.0.
ISC IV 15 11 01 22.4–1.5 37.72N–.05 34.79E–.04 12–11 28 0-2
ISCJB IV 15 11 01 23.6–.67 37.68N–.03 34.76E–.04 5–8 ¶16648753
CSEM IV 15 11 01 23.7–.28 37.67N 34.75E 10 2.3
ISK IV 15 11 01 23.3 37.66N 34.76E 6 2.3
DDA IV 15 11 01 23.6 37.71N 34.70E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=143.5.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=48.0.
ISC IV 15 13 00 52.8–1.0 41.69N–.05 32.48E–.02 9–7 48 0-2
ISK IV 15 13 00 51.8 41.71N 32.48E 9 2.7L ¶16648757
ISCJB IV 15 13 00 52.1–1.0 41.74N–.05 32.47E–.04 4–6 2.7L
CSEM IV 15 13 00 52.2–.29 41.73N 32.50E 5 2.7
DDA IV 15 13 00 52.6 41.70N 32.45E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.4km az=172.5.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.8km az=176.0.
ISC IV 15 14 17 43.8–1.0 39.19N–.02 40.71E–.02 6–9 75 0-3
ISK IV 15 14 17 42.3 39.20N 40.69E 5 3.0L,3.0 ¶16648765
CSEM IV 15 14 17 43.5–.18 39.18N 40.69E 2 3.0,3.0
DDA IV 15 14 17 43.4 39.20N 40.71E 18 3.2L,3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=5.0.
ISK IV 15 18 14 28.8 38.44N 31.83E 5 2.5
CSEM IV 15 18 14 29.3–.22 38.43N 31.81E 2 2.5 ¶16648773
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=59.0.
ISC IV 15 18 15 29.4–1.2 37.10N–.02 29.08E–.02 3–10 51 0-4
ISK IV 15 18 15 28.9 37.08N 29.07E 10 3.1 ¶16648774
DDA IV 15 18 15 29.5 37.08N 29.05E 7 3.1
CSEM IV 15 18 15 29.6–.13 37.09N 29.06E 8 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=27.0.
ISC IV 15 22 37 49.5–.89 40.03N–.02 27.84E–.02 14–8 46 0-2
ISCJB IV 15 22 37 49.7–.42 40.03N–.03 27.83E–.04 16–10 ¶16648777
DDA IV 15 22 37 49.2 40.02N 27.84E 16 2.8
CSEM IV 15 22 37 49.5–.07 40.03N 27.84E 14–0 2.7
ISK IV 15 22 37 49.3 40.05N 27.86E 17 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=50.0.
ISC IV 15 23 07 12.6–1.2 37.06N–.04 29.07E–.03 9–11 30 0-1
ISK IV 15 23 07 12.3 37.08N 29.08E 7 2.8 ¶16648778
CSEM IV 15 23 07 13.1–.20 37.07N 29.06E 8 3.1
DDA IV 15 23 07 13.4 37.10N 29.03E 7 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=4.0km az=174.0.
ISC IV 16 02 49 30.7–.95 38.38N–.02 30.88E–.02 14–8 63 0-2
ISCJB IV 16 02 49 30.7–.55 38.39N–.02 30.87E–.03 4–5 ¶16648813
CSEM IV 16 02 49 30.8–.11 38.38N 30.86E 8 2.9
ISK IV 16 02 49 30.7 38.37N 30.87E 10 2.9
DDA IV 16 02 49 30.2 38.39N 30.84E 18 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=179.0.
ISC IV 16 04 00 05.7–1.2 38.96N–.04 42.40E–.05 19–3 28 0-2
ISK IV 16 04 00 04.6 39.79N 41.98E 24 2.8 ¶16648816
DDA IV 16 04 00 06.8 39.00N 42.27E 11 2.7
CSEM IV 16 04 00 06.5–.47 38.98N 42.40E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=7.2km az=114.0.
ISC IV 16 06 26 48.4–1.0 39.12N–.02 29.09E–.02 11–9 54 0-2
ISCJB IV 16 06 26 48.6–.44 39.12N–.02 29.06E–.03 9–4 ¶16648818
CSEM IV 16 06 26 48.6–.09 39.12N 29.08E 12 2.8
ISK IV 16 06 26 48.1 39.11N 29.09E 12 2.7
DDA IV 16 06 26 48.6 39.12N 29.05E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.2km az=3.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=79.0.
ISC IV 16 06 36 13.5–.97 37.80N–.03 29.14E–.04 14–6 29 0-1
ISK IV 16 06 36 12.8 37.83N 29.13E 22 2.6 ¶16648819
CSEM IV 16 06 36 13.0–.34 37.76N 29.16E 8 2.6
DDA IV 16 06 36 13.7 37.85N 29.09E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=4.7km az=127.0.
ISC IV 16 07 22 32.2–.97 40.26N–.04 29.93E–.03 8–7 25 0-1
ISK IV 16 07 22 31.9 40.28N 29.92E 3 2.5 ¶16648822
ISCJB IV 16 07 22 32.5–.65 40.26N–.05 29.91E–.05 8–6 2.5
CSEM IV 16 07 22 32.5–.27 40.26N 29.92E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.8km az=145.5.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=144.0.
DDA IV 16 07 23 25.7 36.06N 29.32E 5 2.8
CSEM IV 16 07 23 23.6–1.4 35.76N 29.58E 2 2.8 ¶16648823
ISK IV 16 07 23 23.6 35.67N 29.21E 5 3.0
CSEM Event type ke. Error ellipse: s-maj=31.4km s-min=17.5km az=123.0.
ISC IV 16 09 17 31.7–.99 40.08N–.03 28.73E–.03 13–8 30 0-1
ISK IV 16 09 17 30.9 40.12N 28.81E 23 2.4 ¶16648826
CSEM IV 16 09 17 31.7–.29 40.10N 28.74E 20 2.4
DDA IV 16 09 17 32.3 40.03N 28.70E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=6.8km az=60.0.
ISC IV 16 12 05 04.7–1.2 40.55N–.03 37.28E–.02 4–10 51 0-2
ISK IV 16 12 05 03.5 40.55N 37.23E 5 2.6 ¶16648828
ISCJB IV 16 12 05 05.4–.55 40.54N–.03 37.31E–.03 4–5 2.6
CSEM IV 16 12 05 05.5–.23 40.52N 37.29E 8 2.6
DDA IV 16 12 05 05.7 40.52N 37.34E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=171.9.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.2km az=162.0.
ISC IV 16 12 56 55.1–.98 40.88N–.02 30.06E–.02 8–11 64 0-3
ISCJB IV 16 12 56 55.2–.43 40.89N–.03 30.03E–.03 1–6 ¶16648829
CSEM IV 16 12 56 55.7–.18 40.88N 30.04E 2 2.5
ISK IV 16 12 56 55.8 40.84N 30.00E 10 2.8
DDA IV 16 12 56 55.0 40.89N 30.09E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=168.8.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=15.0.
ISC IV 16 14 46 36.4–.88 39.43N–.04 36.44E–.02 13–7 32 0-2
ISK IV 16 14 46 33.7 39.41N 36.47E 5 2.9 ¶16648832
CSEM IV 16 14 46 35.8–.28 39.42N 36.41E 10 2.8
DDA IV 16 14 46 35.5 39.56N 36.44E 7 2.8
ISCJB IV 16 14 46 36.7–.58 39.51N–.05 36.41E–.03 3–9 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 16 14 58 27.3–1.4 37.06N–.04 35.21E–.03 8–16 24 0-1
ISCJB IV 16 14 58 28.0–.61 37.07N–.04 35.23E–.04 12–8 ¶16648833
DDA IV 16 14 58 27.8 37.03N 35.20E 7 2.7
ISK IV 16 14 58 27.0 37.10N 35.21E 2 2.4
CSEM IV 16 14 58 28.3–.39 37.08N 35.22E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=2.3.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=5.4km az=31.0.
ISC IV 16 19 16 11.2–.94 39.09N–.03 29.14E–.03 16–9 35 0-2
ISCJB IV 16 19 16 11.7–.50 39.11N–.03 29.10E–.04 6–6 ¶16648834
CSEM IV 16 19 16 11.9–.08 39.11N 29.11E 7–1 2.8
DDA IV 16 19 16 11.5 39.13N 29.10E 7 2.8
ISK IV 16 19 16 11.0 39.11N 29.11E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.7km az=147.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=177.0.
ISC IV 17 01 45 23.8–1.1 36.89N–.02 29.23E–.02 3–11 42 0-3
ISK IV 17 01 45 21.9 36.90N 29.22E 5 2.9 ¶16648868
CSEM IV 17 01 45 23.5–.21 36.87N 29.23E 5 2.9
DDA IV 17 01 45 23.6 36.90N 29.23E 7 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=2.0.
DDA Event type ke.
ISC IV 17 02 15 48.0–.90 37.92N–.02 27.32E–.03 15–7 43 0-2
ISCJB IV 17 02 15 48.3–.47 37.92N–.02 27.32E–.04 14–4 ¶16648871
CSEM IV 17 02 15 48.2–.20 37.91N 27.30E 15 2.7
ISK IV 17 02 15 48.0 37.92N 27.30E 19 2.6
DDA IV 17 02 15 48.5 37.88N 27.28E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=160.2.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=77.0.
DDA Event type ke.
ISC IV 17 07 52 02.2–.90 38.16N–.06 39.43E–.06 9 20 0-1
ISK IV 17 07 51 59.7 38.07N 39.20E 18 2.6 ¶16648878
CSEM IV 17 07 52 01.8–.26 38.17N 39.50E 10 2.2
ISCJB IV 17 07 52 02.2–.63 38.16N–.06 39.48E–.06 9 2.2
DDA IV 17 07 52 02.8 38.15N 39.39E 7 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=4.5km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=4.2km az=36.3.
ISC IV 17 10 29 01.7–.90 41.41N–.03 35.89E–.02 15–8 36 0-2
ISK IV 17 10 29 00.2 41.45N 35.97E 4 2.8 ¶16648881
CSEM IV 17 10 29 01.7–.27 41.42N 35.88E 5 2.6
DDA IV 17 10 29 01.5 41.39N 35.91E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=30.0.
ISC IV 17 11 11 13.0–1.4 38.55N–.04 43.74E–.06 13–12 13 0-2
ISK IV 17 11 11 13.7 38.57N 43.72E 16 2.5 ¶16648882
ISC Event type ke.
ISC IV 17 11 43 14.5–.89 37.85N–.02 27.33E–.03 14–7 37 0-2
ISCJB IV 17 11 43 14.4–.45 37.86N–.03 27.35E–.04 3–9 ¶16648883
DDA IV 17 11 43 14.2 37.85N 27.37E 7 2.5
CSEM IV 17 11 43 14.6–.10 37.87N 27.34E 5 2.5
ISK IV 17 11 43 14.2 37.87N 27.34E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=68.0.
ISC IV 17 12 49 04.2–.86 40.52N–.03 27.52E–.03 15–6 36 0-1
ISK IV 17 12 49 03.8 40.53N 27.52E 16 2.6 ¶16648886
ISCJB IV 17 12 49 04.5–.45 40.54N–.04 27.52E–.05 15–6 2.6
CSEM IV 17 12 49 04.3–.08 40.52N 27.53E 15 2.6
DDA IV 17 12 49 05.2 40.55N 27.50E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.2km az=41.6.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=17.0.
ISC IV 17 18 33 43.4–1.1 37.07N–.03 30.56E–.04 5–12 21 0-2
ISK IV 17 18 33 40.3 37.06N 30.86E 18 2.5 ¶16648891
DDA IV 17 18 33 41.1 36.94N 30.51E 27 2.7
ISCJB IV 17 18 33 43.2–.65 37.08N–.04 30.58E–.06 1–9 2.7
CSEM IV 17 18 33 43.0–.36 37.09N 30.59E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.8km az=11.5.
CSEM Event type ke. Error ellipse: s-maj=12.4km s-min=6.7km az=99.0.
DDA IV 18 01 10 57.9 38.54N 31.54E 7 2.9
CSEM IV 18 01 10 57.9 38.54N 31.54E 7 2.9 ¶601583590
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 18 03 18 50.8–.94 38.63N–.02 43.66E–.02 9–7 3.3b 188 0-78
ISN IV 18 03 17 45.3–.30 38.84N 43.89E 0 3.7L ¶16648925
NSSC IV 18 03 18 44.0–3.4 38.84N 44.24E 0–412 3.1L,2.7
NSSP IV 18 03 18 48.3 38.52N 43.68E 10 3.8s,2.7
IDC IV 18 03 18 49.9–1.6 38.08N 43.43E 0 3.5,3.4
DDA IV 18 03 18 49.8 38.61N 43.66E 19 3.8L,3.4
TEH IV 18 03 18 50.7 38.58N 43.63E 2 3.6L,3.4
ISK IV 18 03 18 50.7 38.58N 43.63E 2 3.6L,3.4
AZER IV 18 03 18 50.5–40 38.47N 43.40E 22 3.6L,3.4
CSEM IV 18 03 18 53.2–.16 38.65N 43.50E 2 3.6L,3.4
ISC Event type ke.
ISN Error ellipse: s-maj=2.9km s-min=1.0km az=-1.0.
NSSC Error ellipse: s-maj=323.9km s-min=656.6km az=-1.0.
IDC Error ellipse: s-maj=29.2km s-min=18.9km az=162.0.
AZER Error ellipse: s-maj=14.6km s-min=8.6km az=281.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.4km az=150.0.
ISC IV 18 06 25 08.3–1.1 37.69N–.02 38.31E–.02 2–11 59 0-2
NSSC IV 18 06 24 50.2–1.4 38.24N 38.59E 38–36 2.5L ¶16648929
DDA IV 18 06 25 07.9 37.70N 38.27E 7 3.2
ISCJB IV 18 06 25 08.6–.47 37.69N–.02 38.28E–.03 4–4 3.2
CSEM IV 18 06 25 08.8–.15 37.69N 38.29E 2 3.2
ISK IV 18 06 25 09.1 37.69N 38.25E 10 2.9
ISC Event type ke.
NSSC Error ellipse: s-maj=22.1km s-min=7.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=145.0.
ISK IV 18 07 17 29.0 39.89N 42.02E 7 2.7
CSEM IV 18 07 17 29.0–.36 39.87N 41.96E 10 2.8 ¶16648930
DDA IV 18 07 18 03.0 39.89N 42.01E 9 2.8
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=6.7km az=8.0.
ISC IV 18 08 33 12.8–.99 40.41N–.02 26.07E–.02 10–9 113 0-3
CSEM IV 18 08 33 13.6–.12 40.38N 26.09E 10 2.8L ¶16648932
THE IV 18 08 33 13.8 40.38N 26.10E 10–0 2.6L
ISCJB IV 18 08 33 13.5–.40 40.39N–.02 26.10E–.03 10–3 2.6L
ISK IV 18 08 33 13.2 40.37N 26.14E 9 2.8L
ATH IV 18 08 33 13.0 40.41N 26.09E 34–3 2.4L
DDA IV 18 08 33 13.0 40.37N 26.14E 7 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=110.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=300.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=34.1.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.2km az=68.0.
ISC IV 18 08 36 02.3–.00 40.40N–.02 26.15E–.02 15–9 81 0-3
ISCJB IV 18 08 36 02.7–.41 40.39N–.02 26.11E–.03 10–4 ¶16648933
ATH IV 18 08 36 02.3 40.41N 26.06E 31–3 2.4L
CSEM IV 18 08 36 02.8–.12 40.37N 26.10E 10 2.7L
ISK IV 18 08 36 02.0 40.37N 26.09E 10 2.7L
DDA IV 18 08 36 03.1 40.35N 26.21E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=39.8.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=344.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=132.0.
ISC IV 18 08 54 31.8–1.1 37.96N–.02 28.64E–.02 3–10 87 0-3
DDA IV 18 08 54 31.8 38.00N 28.58E 7 3.1L ¶16648934
ISCJB IV 18 08 54 32.1–.47 37.97N–.02 28.59E–.03 2–4 3.1L
CSEM IV 18 08 54 32.3–.15 37.97N 28.59E 5 3.1L

ISK IV 18 08 54 32.0 37.98N 28.59E 6 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=137.1.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=120.0.
DDA IV 18 10 49 05.0 40.54N 29.04E 7 2.5
¶601583598
ISC IV 18 10 53 30.4–1.1 38.15N–.02 38.49E–.02 4–10 128 0-4
ISK IV 18 10 53 28.9 38.17N 38.47E 5 3.3L ¶16648936
DDA IV 18 10 53 29.9 38.13N 38.45E 15 3.2
CSEM IV 18 10 53 30.5–.15 38.17N 38.50E 2 3.2
NSSC IV 18 10 53 33.8–.99 34.62N 36.49E 7–9 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=162.0.
NSSC Error ellipse: s-maj=2.6km s-min=6.8km az=-1.0.
ISC IV 18 11 25 43.9–.99 38.15N–.03 38.47E–.02 13–9 53 0-2
ISK IV 18 11 25 42.9 38.20N 38.45E 2 2.8 ¶16648937
CSEM IV 18 11 25 43.6–.19 38.16N 38.47E 2 2.7
DDA IV 18 11 25 43.5 38.14N 38.46E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=160.0.
ISC IV 18 12 57 40.0–1.3 37.70N–.04 38.06E–.03 3–12 37 1-2
CSEM IV 18 12 57 40.6–.15 37.68N 38.09E 5 2.9 ¶16648939
ISK IV 18 12 57 40.3 37.68N 38.06E 6 2.9
DDA IV 18 12 57 40.4 37.69N 38.06E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=142.0.
ISC IV 18 17 09 36.9–1.3 37.89N–.03 27.54E–.04 5–13 27 0-1
ISCJB IV 18 17 09 37.8–.55 37.91N–.03 27.62E–.04 6–8 ¶16648943
CSEM IV 18 17 09 37.9–.16 37.89N 27.61E 2 2.6
ISK IV 18 17 09 37.7 37.93N 27.61E 6 2.6
DDA IV 18 17 09 37.6 37.87N 27.61E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.2km az=158.2.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=112.0.
ISC IV 18 17 17 09.1–.86 37.90N–.02 27.42E–.03 10 45 0-2
ISCJB IV 18 17 17 08.6–.41 37.90N–.03 27.44E–.04 10 ¶16648944
CSEM IV 18 17 17 08.5–.16 37.91N 27.43E 2 2.9
ISK IV 18 17 17 08.1 37.92N 27.43E 2 2.8L
DDA IV 18 17 17 08.0 37.89N 27.42E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=4.2.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=83.0.
ISC IV 18 19 59 18.4–1.3 40.61N–.03 27.77E–.03 4–11 48 0-2
ISCJB IV 18 19 59 18.5–.56 40.67N–.03 27.78E–.04 1–6 ¶16648947
ISK IV 18 19 59 18.6 40.66N 27.79E 7 2.4L
CSEM IV 18 19 59 19.1–.13 40.66N 27.79E 5 2.4L
DDA IV 18 19 59 19.3 40.64N 27.80E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.1km az=30.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.4km az=156.0.
ISC IV 19 01 17 33.7–1.1 39.73N–.02 38.90E–.02 7–10 58 0-2
CSEM IV 19 01 17 33.9–.17 39.73N 38.90E 2 2.6 ¶16648975
ISK IV 19 01 17 33.6 39.73N 38.89E 9 2.6
ISCJB IV 19 01 17 34.1–.44 39.72N–.02 38.92E–.03 4–4 2.6
DDA IV 19 01 17 34.2 39.69N 38.92E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=0.2.
ISC IV 19 04 00 03.3–1.1 39.49N–.02 27.59E–.02 7–9 74 0-2
ISCJB IV 19 04 00 02.9–.59 39.51N–.02 27.58E–.03 2–4 ¶16648977
ISK IV 19 04 00 02.5 39.48N 27.59E 5 2.7
DDA IV 19 04 00 03.1 39.52N 27.58E 7 2.8
CSEM IV 19 04 00 03.1–.14 39.49N 27.57E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=162.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=167.0.
ISC IV 19 07 55 22.7–.92 40.72N–.01 27.39E–.01 10–7 217 0-6
ATH IV 19 07 55 19.4 40.74N 27.55E 14–1 3.2L ¶16648978
SOF IV 19 07 55 20.6 40.41N 27.21E 2 2.9
DDA IV 19 07 55 22.5 40.71N 27.39E 5 3.3
ISCJB IV 19 07 55 22.4–.36 40.77N–.02 27.39E–.02 5–3 3.3
CSEM IV 19 07 55 22.8–.10 40.76N 27.39E 5 3.4L
ISK IV 19 07 55 22.4 40.77N 27.40E 5 3.4L
THE IV 19 07 55 23.1 40.79N 27.40E 7–1 3.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.6km az=235.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=9.9.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=7.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=304.0.
ISC IV 19 09 29 49.2–.84 40.28N–.02 29.13E–.02 10–5 68 0-2
ISK IV 19 09 29 48.6 40.27N 29.13E 9 2.3L ¶16648982
CSEM IV 19 09 29 49.2–.11 40.28N 29.12E 5 2.3L
DDA IV 19 09 29 49.2 40.28N 29.13E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=143.0.
ISC IV 19 11 32 37.4–1.0 37.64N–.03 34.71E–.04 15–11 28 0-1
DDA IV 19 11 32 36.6 37.69N 34.73E 7 2.8 ¶16648986
ISCJB IV 19 11 32 37.5–.52 37.64N–.03 34.72E–.05 13–6 2.8
CSEM IV 19 11 32 37.6–.18 37.62N 34.70E 10 2.4
ISK IV 19 11 32 37.2 37.62N 34.69E 9 2.4,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=153.5.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=68.0.
ISC IV 19 11 33 28.2–3.4 36.8N–.20 34.8E–.10 13–10 8 0-0
DDA IV 19 11 33 29.2 36.88N 34.68E 7 2.6 ¶601583640
ISC Event type ke.
ISC IV 19 12 35 34.8–2.1 38.57N–.07 43.9E–.10 6 18 0-1
CSEM IV 19 12 35 36.5–1.1 38.52N 43.81E 2 2.8 ¶601583644
DDA IV 19 12 35 40.0 38.66N 43.51E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=22.7km s-min=8.8km az=129.0.
ISC IV 19 13 23 52.5–1.4 39.81N–.03 33.48E–.03 5–13 32 0-2
ISK IV 19 13 23 50.7 39.82N 33.54E 22 2.8 ¶16648988
CSEM IV 19 13 23 51.9–.28 39.82N 33.52E 2 2.7
DDA IV 19 13 23 52.5 39.78N 33.44E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=127.0.
DDA IV 19 17 47 53.5 37.33N 42.49E 6 3.0L
ISN IV 19 17 47 55.8–4.2 37.20N 42.58E 35–115 3.2L ¶601583648
ISN Error ellipse: s-maj=39.0km s-min=26.3km az=-1.0.
ISC IV 19 18 02 57.9–1.3 38.00N–.03 28.58E–.03 13–11 28 0-2
DDA IV 19 18 02 57.5 37.97N 28.60E 7 2.6L ¶16648990
ISK IV 19 18 02 57.9 38.00N 28.58E 7 2.4
CSEM IV 19 18 02 58.2–.24 37.99N 28.59E 10 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.6km az=128.0.
ISC IV 19 21 21 20.2–.49 39.19N–.02 40.59E–.02 14–4 111 0-7
ISN IV 19 21 21 08.5–1.3 38.98N 40.69E 0–38 3.7L ¶16648991
ISK IV 19 21 21 19.2 39.18N 40.66E 5 3.6L
DDA IV 19 21 21 19.4 39.20N 40.58E 7 3.7L
CSEM IV 19 21 21 20.3–.19 39.18N 40.63E 2 3.6L
ISCJB IV 19 21 21 20.2–.45 39.16N–.02 40.65E–.03 7–3 3.6L
NSSC IV 19 21 21 25.5–1.6 39.03N 40.53E 38–999 3.1L
ISC Event type ke.
ISN Error ellipse: s-maj=102.3km s-min=43.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.3km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.0km az=164.9.
NSSC Error ellipse: s-maj=15.8km s-min=10.3km az=-1.0.
ISC IV 19 21 29 03.6–.82 37.47N–.02 35.59E–.02 12–5 86 0-3
DDA IV 19 21 29 03.0 37.54N 35.60E 6 3.0L ¶16648992
ISCJB IV 19 21 29 03.8–.38 37.49N–.02 35.58E–.02 10–2 3.0L
CSEM IV 19 21 29 03.8–.14 37.49N 35.58E 10 3.0
ISK IV 19 21 29 03.0 37.52N 35.56E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=3.1km az=173.8.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=95.0.
ISC IV 19 22 21 16.4–.83 40.33N–.03 27.43E–.02 11–5 50 0-2
ISK IV 19 22 21 15.3 40.31N 27.43E 7 2.7 ¶16648994
ISCJB IV 19 22 21 16.1–.39 40.36N–.03 27.43E–.03 10–3 2.7
CSEM IV 19 22 21 16.2–.13 40.35N 27.43E 12 2.7
DDA IV 19 22 21 16.4 40.34N 27.44E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.5km az=18.1.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.3km az=13.0.
ISC IV 20 01 45 43.8–1.3 38.06N–.05 31.01E–.04 1–12 28 0-2
CSEM IV 20 01 45 43.9–.41 37.93N 31.05E 10 2.8 ¶16649019
ISK IV 20 01 45 43.0 38.10N 30.99E 15 2.8
DDA IV 20 01 45 46.7 38.07N 30.83E 6 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.3km s-min=7.9km az=157.0.
ISC IV 20 05 18 35.7–1.5 37.17N–.08 30.67E–.05 10 17 0-2
CSEM IV 20 05 18 34.6–.69 37.03N 30.62E 10 2.7 ¶16649021
ISK IV 20 05 18 36.1 37.21N 30.58E 30 2.7
ISCJB IV 20 05 18 38.6–1.2 37.23N–.07 30.79E–.08 10 2.7
DDA IV 20 05 18 39.6 37.35N 30.81E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=19.6km s-min=13.8km az=130.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=8.6km az=162.4.
ISC IV 20 09 17 39.0–.92 38.44N–.03 29.11E–.02 12–8 42 0-2
DDA IV 20 09 17 39.0 38.46N 29.12E 8 2.6 ¶16649022
CSEM IV 20 09 17 38.9–.20 38.41N 29.11E 8 2.6
ISK IV 20 09 17 38.6 38.40N 29.10E 6 2.9
ISCJB IV 20 09 17 39.2–.49 38.43N–.04 29.10E–.04 9–7 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 20 10 08 32.1–1.0 37.46N–.02 38.70E–.02 17–9 72 1-3
DDA IV 20 10 08 30.8 37.42N 38.79E 13 2.7 ¶16649025
ISK IV 20 10 08 31.4 37.49N 38.64E 16 3.1
NSSC IV 20 10 08 33.6–1.1 38.36N 35.69E 116–126 2.7L,2.1
CSEM IV 20 10 08 33.5–.29 37.51N 38.78E 15 2.7,2.1
ISC Event type ke.
NSSC Error ellipse: s-maj=14.0km s-min=157.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=7.1km az=134.0.
ISC IV 20 10 22 09.3–.87 40.76N–.05 41.17E–.04 12 25 0-2
ISK IV 20 10 22 08.3 40.86N 41.39E 29 2.7 ¶16649026
ISCJB IV 20 10 22 09.6–.57 40.74N–.06 41.22E–.06 12 2.7
CSEM IV 20 10 22 09.4–.20 40.74N 41.22E 15 2.4
DDA IV 20 10 22 09.7 40.73N 41.27E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=3.9km az=144.7.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=139.0.
ISK IV 20 10 23 03.6 39.95N 35.33E 16 2.7
CSEM IV 20 10 23 03.6 39.95N 35.33E 16 2.7 ¶16649027
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 20 10 40 44.0–1.1 36.95N–.02 33.90E–.04 10–10 41 0-2
ISCJB IV 20 10 40 43.9–.70 36.94N–.03 33.90E–.05 12–5 ¶16649028
ISK IV 20 10 40 43.1 36.96N 33.89E 10 2.7
DDA IV 20 10 40 44.5 36.97N 33.91E 6 2.4
CSEM IV 20 10 40 44.1–.30 36.96N 33.91E 12 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.2km az=13.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.5km az=97.0.
ISC IV 20 17 10 40.3–1.8 40.02N–.07 38.87E–.05 4–19 24 0-1
CSEM IV 20 17 10 38.1–.58 39.80N 38.86E 2 2.4 ¶16649034
ISK IV 20 17 10 40.8 40.08N 38.82E 10 2.6
ISCJB IV 20 17 10 41.2–.71 40.08N–.06 38.83E–.04 10–9 2.6
DDA IV 20 17 10 41.2 40.05N 38.80E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=9.2km az=147.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.2km az=4.9.
ISC IV 20 19 06 17.8–1.3 37.24N–.02 27.17E–.04 3–10 38 0-2
ISK IV 20 19 06 17.8 37.24N 27.14E 8 2.8 ¶16649036
DDA IV 20 19 06 18.9 37.25N 27.31E 7 2.7
CSEM IV 20 19 06 18.2–.27 37.24N 27.17E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.5km az=84.0.
ISC IV 20 20 56 51.3–.96 40.23N–.03 29.39E–.03 8–8 40 0-1
ISCJB IV 20 20 56 51.3–.45 40.24N–.03 29.39E–.03 6–5 ¶16649038
CSEM IV 20 20 56 51.4–.14 40.22N 29.41E 10 2.7
ISK IV 20 20 56 51.0 40.22N 29.42E 15 2.7
DDA IV 20 20 56 51.9 40.21N 29.34E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=171.8.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=155.0.
ISC IV 21 02 40 43.5–1.0 40.83N–.02 35.50E–.03 9–11 42 0-1
ISCJB IV 21 02 40 43.3–.49 40.83N–.02 35.50E–.04 8–5 ¶16649067
CSEM IV 21 02 40 43.5–.16 40.84N 35.49E 10 2.7
ISK IV 21 02 40 43.0 40.84N 35.50E 5 2.9
DDA IV 21 02 40 43.1 40.82N 35.52E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=32.1.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=107.0.
ISC IV 21 06 50 60.0–1.0 37.86N–.02 27.43E–.02 6–11 45 0-2
DDA IV 21 06 50 59.2 37.87N 27.44E 8 2.9L ¶16649069
CSEM IV 21 06 50 59.9–.13 37.87N 27.45E 2 2.9L
ISK IV 21 06 50 59.6 37.88N 27.46E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=67.0.
ISC IV 21 07 31 39.9–1.1 37.87N–.02 27.44E–.02 2–12 105 0-3
DDA IV 21 07 31 39.0 37.86N 27.43E 7 3.0L ¶16649070
THE IV 21 07 31 39.8 37.84N 27.45E 4–5 2.7L
ISK IV 21 07 31 39.6 37.90N 27.48E 2 2.9,2.8L
CSEM IV 21 07 31 40.2–.13 37.87N 27.46E 2 3.0L,2.8L
ATH IV 21 07 31 41.3 37.88N 27.34E 10–3 2.6L,2.8L
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=5.3km s-min=0.9km az=227.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=73.0.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.4km az=245.0.
ISC IV 21 08 01 29.7–.90 37.87N–.02 27.44E–.02 12–8 53 0-2
ISCJB IV 21 08 01 29.6–.45 37.87N–.02 27.45E–.03 2–6 ¶16649071
DDA IV 21 08 01 29.4 37.86N 27.44E 8 2.9
ISK IV 21 08 01 29.1 37.92N 27.47E 5 2.9L,2.8
CSEM IV 21 08 01 30.0–.15 37.89N 27.45E 2 2.9,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=43.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=60.0.
ISC IV 21 09 38 27.0–.99 37.87N–.01 27.45E–.01 6–9 148 0-3
DDA IV 21 09 38 25.9 37.86N 27.44E 2 3.1 ¶601583699
ISK IV 21 09 38 26.4 37.90N 27.48E 5 3.1,3.0L
ATH IV 21 09 38 28.0 37.86N 27.38E 15–2 2.8L,3.0L
CSEM IV 21 09 38 27.4–.12 37.88N 27.46E 2 3.1,3.0L
THE IV 21 09 38 27.1 37.84N 27.43E 4–3 3.0L,3.0L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.1km az=245.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=86.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=0.7km az=206.0.
ISC IV 21 10 57 52.1–.89 39.10N–.02 29.05E–.02 13–7 45 0-1
ISCJB IV 21 10 57 52.0–.46 39.11N–.03 29.05E–.03 3–6 ¶16649076
ISK IV 21 10 57 51.2 39.11N 29.06E 10 2.5
DDA IV 21 10 57 52.1 39.12N 29.06E 7 2.5
CSEM IV 21 10 57 52.2–.15 39.11N 29.05E 8 2.5

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=153.8.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.1km az=6.0.

ISC	**IV**	**21 12 46 22.4–1.1**	**37.16N–.04**	**36.99E–.04**	**7**		**9**	**0-4**
DDA	IV	21 12 46 21.1	37.18N	37.10E	7	2.5		¶601583705
ISCJB	IV	21 12 46 22.2–.75	37.16N–.04	37.05E–.06	7	2.5		

ISC Event type ke.
ISCJB Event type ke.

ISC	**IV**	**21 17 10 10.0–.87**	**40.70N–.03**	**27.37E–.02**	**13–6**		**44**	**0-1**
ISK	IV	21 17 10 09.8	40.70N	27.37E	12	2.4L		¶16649079
ISCJB	IV	21 17 10 10.0–.48	40.69N–.04	27.37E–.03	12–4	2.4L		
DDA	IV	21 17 10 10.2	40.69N	27.38E	7	2.6		
CSEM	IV	21 17 10 10.3–.09	40.70N	27.37E	10	2.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.7km az=4.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.6km az=7.0.

ISC	**IV**	**21 20 46 28.2–1.5**	**37.31N–.07**	**42.85E–.03**	**4–12**		**33**	**0-2**
ISK	IV	21 20 46 28.8	37.50N	42.81E	5	2.6		¶16649081
DDA	IV	21 20 46 29.2	37.34N	42.80E	6	2.8		
CSEM	IV	21 20 46 30.3–.23	37.44N	42.80E	2	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=3.2km az=3.0.

ISC	**IV**	**21 21 18 48.8–.99**	**37.83N–.02**	**29.24E–.03**	**10–7**		**50**	**0-2**
DDA	IV	21 21 18 47.2	37.81N	29.24E	5	2.9		¶16649082
CSEM	IV	21 21 18 48.3–.21	37.82N	29.22E	8	2.8		
ISK	IV	21 21 18 48.0	37.82N	29.24E	6	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.6km az=106.0.

ISC	**IV**	**21 22 23 17.5–.95**	**36.15N–.02**	**35.77E–.02**	**15–8**		**97**	**0-2**
DDA	IV	21 22 23 16.1	36.08N	35.69E	7	3.0		¶16649085
NSSC	IV	21 22 23 17.3–.55	36.17N	35.74E	3–3	2.2L		
ISCJB	IV	21 22 23 18.1–.45	36.15N–.02	35.77E–.02	13–3	2.2L		
CSEM	IV	21 22 23 18.0–.13	36.12N	35.78E	15	3.0		
ISK	IV	21 22 23 18.2	36.16N	35.78E	18	3.0		

ISC Event type ke.
NSSC Error ellipse: s-maj=1.8km s-min=4.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=43.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=46.0.

ISC	**IV**	**21 22 30 03.7–.97**	**37.87N–.03**	**29.23E–.04**	**16–7**		**33**	**0-1**
DDA	IV	21 22 30 01.5	37.80N	29.25E	7	2.6		¶16649086
ISK	IV	21 22 30 02.8	37.89N	29.28E	12	2.7		
ISCJB	IV	21 22 30 03.6–.79	37.86N–.03	29.25E–.06	11–4	2.7		
CSEM	IV	21 22 30 03.4–.37	37.88N	29.23E	15	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.0km az=20.7.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=5.7km az=114.0.

ISC	**IV**	**22 03 55 13.8–1.1**	**36.92N–.02**	**29.31E–.02**	**4–8**	**3.8b,2.9s**	**322**	**0-82**
IDC	IV	22 03 55 12.4–1.2	36.94N	29.43E	0	3.8b,3.8		¶16505484
ISK	IV	22 03 55 12.2	36.93N	29.28E	5	3.8L,3.8		
NEIC	IV	22 03 55 12.7	36.92N	29.28E	5	4.0b,3.9L		
ATH	IV	22 03 55 12.6	36.97N	29.31E	8–2	3.7L,3.9L		
ISCJB	IV	22 03 55 13.3–.47	36.93N–.02	29.31E–.02	6–3	3.7b,3.1s		
DDA	IV	22 03 55 13.8	36.99N	29.25E	21	3.8L,3.1s		
CSEM	IV	22 03 55 14.0–.10	36.92N	29.30E	2	3.8b,3.1s		
THE	IV	22 03 55 14.1	36.88N	29.35E	1–1	3.9L,3.1s		

ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=18.8km az=24.0.
NEIC Event type se. After ISK.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=171.9.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=175.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=65.0.

ISC	**IV**	**22 04 23 22.9–1.0**	**40.63N–.03**	**35.47E–.02**	**12–11**		**38**	**0-2**
CSEM	IV	22 04 23 22.8–.16	40.62N	35.48E	2	2.7		¶16649121
ISK	IV	22 04 23 22.2	40.65N	35.45E	5	2.6		
DDA	IV	22 04 23 22.4	40.63N	35.46E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=138.0.

ISC	**IV**	**22 05 43 31.2–1.0**	**38.99N–.02**	**29.83E–.02**	**8–8**	**3.2b**	**235**	**0-75**
DDA	IV	22 05 43 30.7	38.98N	29.83E	21	3.9L		¶16649123
ISCJB	IV	22 05 43 30.8–.52	38.98N–.02	29.85E–.02	1–4	3.2b		
IDC	IV	22 05 43 30.1–1.5	39.11N	29.78E	0	3.4,3.3		
ISK	IV	22 05 43 30.4	38.96N	29.88E	5	3.6L,3.3		
CSEM	IV	22 05 43 31.6–.08	38.97N	29.85E	2	3.9L,3.3		
THE	IV	22 05 43 34.7	38.96N	29.57E	3–2	3.8L,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=30.1.
IDC Error ellipse: s-maj=29.5km s-min=20.3km az=177.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=129.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=241.0.

ISC	**IV**	**22 06 05 05.5–.90**	**37.55N–.02**	**35.68E–.02**	**11–7**		**69**	**0-3**
ISK	IV	22 06 05 04.4	37.58N	35.71E	6	2.7		¶16649125
ISCJB	IV	22 06 05 05.2–.49	37.58N–.03	35.70E–.02	5–4	2.7		
DDA	IV	22 06 05 05.9	37.53N	35.66E	7	2.7		
CSEM	IV	22 06 05 05.3–.16	37.58N	35.70E	10	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.9km az=177.1.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=176.0.

ISC	**IV**	**22 06 10 42.9–1.1**	**38.99N–.02**	**29.87E–.03**	**8–10**		**44**	**0-2**
ISCJB	IV	22 06 10 42.9–.57	38.99N–.03	29.85E–.04	4–6			¶16649126
DDA	IV	22 06 10 42.7	38.97N	29.85E	7	2.6		
CSEM	IV	22 06 10 43.0–.15	38.99N	29.86E	5	2.6		
ISK	IV	22 06 10 43.1	38.99N	29.77E	9	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=43.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=125.0.

ISC	**IV**	**22 07 20 22.2–1.2**	**36.85N–.04**	**29.30E–.03**	**21–2**		**26**	**0-2**
DDA	IV	22 07 20 21.1	37.01N	29.23E	7	2.7		¶16649127
ISK	IV	22 07 20 21.2	36.85N	29.32E	22	2.5		
CSEM	IV	22 07 20 22.4–.20	36.87N	29.31E	10	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=15.0.

ISC	**IV**	**22 10 15 21.9–1.1**	**38.71N–.03**	**29.35E–.04**	**8–11**		**29**	**0-2**
DDA	IV	22 10 15 22.3	38.70N	29.31E	7	2.6L		¶16649130
CSEM	IV	22 10 15 22.5–.15	38.70N	29.30E	8	2.6L		
ISK	IV	22 10 15 23.4	38.80N	29.16E	8	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=103.0.

ISC	**IV**	**22 11 33 57.2–1.3**	**37.66N–.04**	**38.04E–.03**	**8–11**		**27**	**1-1**
DDA	IV	22 11 33 57.7	37.75N	38.02E	7	2.8L		¶16649132
CSEM	IV	22 11 33 57.0–.20	37.72N	38.05E	2	2.8L		
ISK	IV	22 11 33 57.2	37.58N	38.05E	13	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=146.0.

ISC	**IV**	**22 12 33 16.0–1.2**	**37.11N–.03**	**37.11E–.02**	**2–10**		**42**	**0-1**
ISCJB	IV	22 12 33 16.6–.53	37.15N–.03	37.11E–.03	4–6			¶16649136
DDA	IV	22 12 33 16.3	37.16N	37.09E	7	2.9		
ISK	IV	22 12 33 16.0	37.18N	37.14E	5	2.7		
CSEM	IV	22 12 33 16.5–.18	37.15N	37.13E	8	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.5km az=178.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=4.0km az=110.0.

ISC	**IV**	**22 14 18 08.5–1.2**	**38.99N–.03**	**34.96E–.03**	**4–11**		**28**	**0-2**
CSEM	IV	22 14 18 08.8–.29	38.98N	34.96E	2	2.8		¶16649139
DDA	IV	22 14 18 08.7	39.00N	34.95E	7	2.8		
ISK	IV	22 14 18 08.0	38.94N	34.93E	5	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=158.0.

ISC	**IV**	**22 14 47 31.2–.99**	**37.22N–.04**	**28.33E–.04**	**20–4**		**26**	**0-1**
ISK	IV	22 14 47 30.4	37.19N	28.38E	23	2.5		¶16649140
CSEM	IV	22 14 47 31.4–.54	37.21N	28.33E	20–1	2.5		
ISCJB	IV	22 14 47 32.0–.86	37.22N–.05	28.36E–.06	16–11	2.5		
DDA	IV	22 14 47 32.6	37.26N	28.27E	7	2.4		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=8.4km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=7.0km az=140.3.

ISC	**IV**	**22 14 52 57.3–.89**	**37.21N–.03**	**28.20E–.04**	**10–7**		**26**	**0-1**
ISCJB	IV	22 14 52 57.8–.72	37.23N–.04	28.22E–.05	8–10			¶16649141
CSEM	IV	22 14 52 57.6–.23	37.22N	28.26E	10	2.6		
ISK	IV	22 14 52 57.1	37.20N	28.22E	12	2.6		
DDA	IV	22 14 52 57.8	37.26N	28.23E	7	2.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.1km az=43.2.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=63.0.

ISC	**IV**	**22 15 00 17.9–1.1**	**38.25N–.03**	**38.28E–.02**	**8–10**		**46**	**0-2**
ISK	IV	22 15 00 16.4	38.23N	38.27E	2	2.8		¶16649142
ISCJB	IV	22 15 00 17.5–.66	38.26N–.03	38.30E–.03	2–6	2.8		
CSEM	IV	22 15 00 17.4–.20	38.25N	38.31E	8	2.7		
DDA	IV	22 15 00 17.6	38.27N	38.27E	14	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.2km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=39.0.

ISC	**IV**	**22 15 17 59.3–.87**	**37.47N–.04**	**35.86E–.03**	**7–5**		**32**	**0-1**
ISCJB	IV	22 15 17 59.5–.59	37.47N–.05	35.89E–.03	3–7			¶16649143
CSEM	IV	22 15 17 59.4–.36	37.49N	35.86E	5	2.4		
ISK	IV	22 15 17 59.2	37.48N	35.79E	5	2.4		
DDA	IV	22 15 17 59.0	37.58N	35.89E	7	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.6km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=5.7km az=164.0.

ISC	**IV**	**22 15 28 34.0–1.2**	**39.77N–.03**	**30.53E–.03**	**3–11**		**35**	**0-1**
DDA	IV	22 15 28 32.8	39.88N	30.61E	7	2.5		¶16649144
CSEM	IV	22 15 28 34.8–.22	39.76N	30.54E	2	2.5		
ISK	IV	22 15 28 34.3	39.75N	30.54E	4	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=41.0.

ISC	**IV**	**22 16 30 39.9–1.0**	**37.85N–.02**	**27.43E–.02**	**5–10**		**46**	**0-2**
ISK	IV	22 16 30 39.3	37.89N	27.47E	13	2.5		¶16649147
DDA	IV	22 16 30 39.3	37.83N	27.44E	3	2.9		
CSEM	IV	22 16 30 40.3–.34	37.84N	27.45E	2	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=6.1km az=71.0.

ISC	**IV**	**22 16 31 07.2–1.8**	**39.25N–.08**	**27.90E–.05**	**17–10**		**30**	**0-2**
CSEM	IV	22 16 31 02.9–.69	39.03N	27.81E	10	2.7		¶16649150
ISK	IV	22 16 31 04.3	39.14N	27.86E	14	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.3km s-min=9.4km az=22.0.

ISC	**IV**	**22 17 06 21.7–1.1**	**37.62N–.04**	**35.67E–.03**	**13–9**		**32**	**0-1**
ISK	IV	22 17 06 21.8	37.62N	35.60E	8	2.5		¶16649151
ISCJB	IV	22 17 06 22.8–.83	37.61N–.06	35.60E–.04	6–7	2.5		
CSEM	IV	22 17 06 22.6–.26	37.62N	35.61E	10	2.5		
DDA	IV	22 17 06 23.2	37.61N	35.59E	7	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=4.8km az=164.4.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=175.0.

ISC	**IV**	**23 05 22 11.9–.78**	**37.47N–.02**	**35.59E–.01**	**14–5**	**4.2b**	**358**	**0-78**
NSSC	IV	23 05 22 08.1–2.7	37.69N	35.48E	7–35	3.8L		¶16476061
BJI	IV	23 05 22 09.1	37.50N	35.60E	10	4.5b		
IDC	IV	23 05 22 10.1–.86	37.51N	35.45E	0	3.9,3.9		
DDA	IV	23 05 22 10.9	37.49N	35.58E	30	4.1L,3.9		
ISCJB	IV	23 05 22 11.9–.42	37.43N–.01	35.58E–.02	15–3	4.0b,3.9		
NEIC	IV	23 05 22 11.1	37.47N	35.58E	10	4.5b,4.0L		
ISK	IV	23 05 22 11.0	37.47N	35.58E	11	4.0L,4.0L		
CSEM	IV	23 05 22 12.1–.08	37.47N	35.60E	10	4.0L,4.0L		
GII	IV	23 05 22 16.4–.24	37.22N	35.12E	10	3.3,4.0L		
NIC	IV	23 05 22 16.3–.50	37.47N	35.10E	17	4.6b,4.3L		

ISC Event type fe.
NSSC Error ellipse: s-maj=18.4km s-min=20.2km az=-1.0.
IDC Error ellipse: s-maj=21.2km s-min=13.8km az=62.0.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=18.8.
NEIC Event type fe. Felt at Adana. After ISK.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=93.0.
GII Event type ke.

ISC	**IV**	**23 05 31 25.2–.80**	**37.47N–.02**	**35.57E–.02**	**15–5**		**119**	**0-4**
NSSC	IV	23 05 31 21.0–1.4	37.60N	35.29E	6–24	2.8L		¶601711222
DDA	IV	23 05 31 24.4	37.50N	35.57E	19	3.0		
ISK	IV	23 05 31 24.8	37.51N	35.57E	6	3.1L		
ISCJB	IV	23 05 31 25.4–.38	37.47N–.02	35.58E–.02	10–3	3.1L		
CSEM	IV	23 05 31 25.6–.18	37.47N	35.58E	10	3.1L		

ISC Event type ke.
NSSC Error ellipse: s-maj=17.1km s-min=32.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=168.0.

ISC	**IV**	**23 07 55 27.0–.86**	**37.55N–.04**	**35.57E–.02**	**16–6**		**38**	**0-2**
ISCJB	IV	23 07 55 27.4–.51	37.56N–.04	35.56E–.03	11–4			¶16649196
DDA	IV	23 07 55 27.5	37.52N	35.59E	4	2.8		
CSEM	IV	23 07 55 27.5–.14	37.55N	35.57E	12	2.6		
ISK	IV	23 07 55 27.1	37.55N	35.57E	10	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.4km az=176.1.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.6km az=178.0.

ISC	**IV**	**23 10 13 07.9–.83**	**37.52N–.02**	**35.56E–.02**	**14–6**		**62**	**0-3**
DDA	IV	23 10 13 07.5	37.51N	35.55E	17	2.9		¶16649200
ISK	IV	23 10 13 07.7	37.54N	35.57E	5	2.9		
ISCJB	IV	23 10 13 08.1–.40	37.51N–.03	35.58E–.03	9–3	2.9		
CSEM	IV	23 10 13 08.0–.14	37.53N	35.56E	2	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=163.2.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=168.0.

ISC	**IV**	**23 11 53 42.3–.86**	**37.52N–.02**	**35.58E–.02**	**16–6**		**60**	**0-3**
ISK	IV	23 11 53 42.5	37.50N	35.56E	5	2.9		¶16649202
DDA	IV	23 11 53 42.0	37.54N	35.62E	8	2.8		
ISCJB	IV	23 11 53 43.0–.43	37.49N–.03	35.58E–.02	11–3	2.8		
CSEM	IV	23 11 53 43.0–.13	37.50N	35.55E	5	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=172.8.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=172.0.

ISC	**IV**	**23 14 54 48.9–1.1**	**39.57N–.02**	**33.26E–.02**	**3–10**		**67**	**0-2**
ISK	IV	23 14 54 48.4	39.58N	33.27E	5	2.9		¶16649210
DDA	IV	23 14 54 48.6	39.57N	33.24E	5	2.8		
CSEM	IV	23 14 54 49.3–.14	39.58N	33.28E	2	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=116.0.

ISC	**IV**	**23 20 35 20.2–1.1**	**39.42N–.03**	**38.22E–.03**	**8–9**		**34**	**0-1**
ISCJB	IV	23 20 35 19.9–.62	39.43N–.04	38.22E–.04	0–7			¶16649220
ISK	IV	23 20 35 19.2	39.40N	38.22E	4	2.7		
DDA	IV	23 20 35 19.8	39.42N	38.24E	7	2.6		
CSEM	IV	23 20 35 20.0–.17	39.41N	38.23E	8	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=166.0.

ISC	**IV**	**24 01 30 57.6–.92**	**37.50N–.06**	**35.70E–.03**	**13–6**		**27**	**0-1**
ISCJB	IV	24 01 30 57.8–.60	37.48N–.07	35.69E–.03	9–5			¶16649272
DDA	IV	24 01 30 57.4	37.51N	35.70E	7	2.2		
CSEM	IV	24 01 30 57.5–.25	37.49N	35.70E	10	2.5		
ISK	IV	24 01 30 57.7	37.46N	35.70E	9	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=4.4km az=174.9.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.3km az=176.0.

ISC	**IV**	**24 02 59 40.0–1.0**	**39.29N–.03**	**41.71E–.03**	**10**		**33**	**0-2**
ISK	IV	24 02 59 37.3	39.29N	41.78E	5	2.9		¶16649274
CSEM	IV	24 02 59 38.9–.24	39.30N	41.75E	5	2.9		

ISCJB IV 24 02 59 39.2–.53 39.30N–.03 41.75E–.05 10 2.9
DDA IV 24 02 59 40.2 39.35N 41.65E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=53.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=10.1.
ISC IV 24 03 31 31.3–1.1 38.67N–.02 31.86E–.02 2–11 69 0-3
DDA IV 24 03 31 30.9 38.66N 31.84E 7 3.0 ¶16649275
ISK IV 24 03 31 31.1 38.66N 31.91E 4 3.0
CSEM IV 24 03 31 31.3–.12 38.66N 31.87E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=45.0.
ISC IV 24 07 07 50.5–.97 38.98N–.02 29.83E–.02 13–11 62 0-2
DDA IV 24 07 07 50.1 38.99N 29.83E 7 3.0L ¶16649282
CSEM IV 24 07 07 50.8–.11 38.98N 29.82E 2 3.0L
ISK IV 24 07 07 50.7 38.98N 29.76E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=165.0.
ISC IV 24 08 01 43.8–1.0 39.01N–.03 38.07E–.03 15–10 36 0-1
DDA IV 24 08 01 43.8 39.03N 38.06E 7 2.7L ¶16649284
ISK IV 24 08 01 43.8 39.01N 38.08E 10 2.3
ISCJB IV 24 08 01 44.1–.52 39.01N–.03 38.06E–.04 5–7 2.3
CSEM IV 24 08 01 44.1–.17 39.01N 38.07E 10 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=137.7.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=145.0.
ISC IV 24 13 49 26.0–1.3 38.93N–.04 29.83E–.03 3–14 36 0-2
DDA IV 24 13 49 25.9 38.99N 29.83E 7 2.7 ¶16649295
CSEM IV 24 13 49 26.6–.14 38.97N 29.82E 2 2.7
ISK IV 24 13 49 27.0 38.98N 29.72E 6 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=121.0.
ISC IV 24 21 08 59.8–.97 37.12N–.03 35.96E–.02 13–9 49 0-2
DDA IV 24 21 08 59.6 37.11N 35.98E 28 2.7 ¶16649302
ISK IV 24 21 08 59.9 37.15N 35.97E 14 2.7
ISCJB IV 24 21 09 00.1–.47 37.14N–.03 35.96E–.03 11–4 2.7
CSEM IV 24 21 09 00.2–.15 37.13N 35.97E 14–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=171.8.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=3.0.
ISC IV 24 22 12 16.5–.97 38.98N–.02 29.83E–.02 13–10 52 0-2
ISCJB IV 24 22 12 16.5–.53 38.98N–.03 29.84E–.03 3–6 ¶16649303
DDA IV 24 22 12 16.5 38.98N 29.84E 7 2.5
CSEM IV 24 22 12 16.7–.07 38.98N 29.83E 2 2.5
ISK IV 24 22 12 16.4 38.99N 29.81E 4 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=6.4.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=142.0.
ISC IV 25 00 49 43.8–1.1 38.63N–.03 31.17E–.03 10–10 28 1-2
ISCJB IV 25 00 49 43.4–.60 38.63N–.03 31.17E–.04 4–9 ¶16649344
CSEM IV 25 00 49 43.8–.23 38.64N 31.18E 10 2.6
ISK IV 25 00 49 43.2 38.66N 31.16E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=147.7.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=2.8km az=39.0.
ISC IV 25 01 43 55.1–1.2 38.53N–.03 43.75E–.04 7–11 32 0-2
DDA IV 25 01 43 54.5 38.53N 43.84E 7 2.6 ¶16649345
ISK IV 25 01 43 54.6 38.53N 43.73E 7 2.6
CSEM IV 25 01 43 55.0–.28 38.52N 43.76E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.9km az=89.0.
ISC IV 25 06 24 18.4–1.1 40.26N–.04 28.89E–.04 7–10 37 0-1
ISCJB IV 25 06 24 18.7–.63 40.26N–.05 28.92E–.03 3–7 ¶16649351
CSEM IV 25 06 24 18.3–.37 40.27N 28.97E 8 2.5
DDA IV 25 06 24 18.0 40.26N 28.91E 7 2.5
ISK IV 25 06 24 19.7 40.30N 28.84E 18 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.7km az=17.1.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.8km az=40.0.
ISC IV 25 07 43 25.9–1.1 39.10N–.03 27.66E–.02 13–9 42 0-2
DDA IV 25 07 43 22.8 39.13N 27.45E 7 2.6 ¶16649353
CSEM IV 25 07 43 25.8–.29 39.09N 27.69E 8 2.4
ISK IV 25 07 43 25.8 39.05N 27.67E 6 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=166.0.
ISC IV 25 08 55 47.0–.88 36.92N–.04 34.59E–.04 9–6 26 0-1
DDA IV 25 08 55 46.8 36.94N 34.59E 7 2.6 ¶16649357
ISK IV 25 08 55 46.8 36.96N 34.52E 4 2.2
ISCJB IV 25 08 55 47.2–.74 36.89N–.05 34.60E–.06 11–6 2.2
CSEM IV 25 08 55 47.6–.22 36.92N 34.55E 8 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.6km az=138.6.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.8km az=129.0.
ISC IV 25 09 06 43.3–1.5 37.26N–.03 31.80E–.05 0–15 31 1-2
DDA IV 25 09 06 42.5 37.28N 31.78E 6 2.8 ¶16649359
CSEM IV 25 09 06 43.1–.22 37.26N 31.80E 2 2.8
ISK IV 25 09 06 43.5 37.34N 31.84E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.1km az=83.0.
ISC IV 25 15 12 42.6–.89 39.23N–.03 37.47E–.04 18–5 30 0-2
CSEM IV 25 15 12 41.8–.26 39.24N 37.44E 15 2.9 ¶16649366
ISK IV 25 15 12 41.6 39.22N 37.44E 18 2.5
ISCJB IV 25 15 12 42.4–.74 39.25N–.04 37.41E–.06 21–6 2.5
DDA IV 25 15 12 43.2 39.23N 37.60E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.6km az=30.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.1km az=34.0.
ISC IV 25 15 21 28.7–1.4 39.02N–.03 29.82E–.06 11–11 26 0-1
ISCJB IV 25 15 21 28.0–1.2 39.03N–.03 29.85E–.08 3–14 ¶16649367
DDA IV 25 15 21 28.6 39.02N 29.81E 7 2.7
CSEM IV 25 15 21 28.0–.26 39.04N 29.88E 2 2.7
ISK IV 25 15 21 28.4 39.03N 29.77E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.5km az=170.1.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.8km az=90.0.
ISC IV 25 18 39 34.9–.96 37.86N–.03 27.43E–.03 11–10 30 0-1
ISCJB IV 25 18 39 34.8–.50 37.87N–.03 27.44E–.04 10–6 ¶16649368
DDA IV 25 18 39 34.4 37.86N 27.44E 7 2.7
CSEM IV 25 18 39 34.9–.24 37.88N 27.43E 10 2.7
ISK IV 25 18 39 35.2 37.92N 27.48E 8 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=145.5.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=74.0.
ISC IV 25 19 36 31.3–.99 37.08N–.03 27.56E–.03 7–9 28 0-1
DDA IV 25 19 36 30.5 37.07N 27.58E 7 2.7 ¶16649369
ISK IV 25 19 36 30.0 37.09N 27.57E 5 2.6
ISCJB IV 25 19 36 31.2–.60 37.08N–.03 27.59E–.05 1–19 2.6
CSEM IV 25 19 36 31.3–.15 37.08N 27.58E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.6km az=32.6.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.0km az=123.0.
ISC IV 25 20 27 06.8–1.1 38.60N–.03 31.20E–.03 8–13 30 1-1
ISCJB IV 25 20 27 06.8–.69 38.59N–.03 31.22E–.05 5–12 ¶16649371
DDA IV 25 20 27 06.4 38.62N 31.20E 7 2.6
CSEM IV 25 20 27 07.3–.15 38.59N 31.21E 10 2.7
ISK IV 25 20 27 10.1 38.70N 31.44E 30 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=29.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=27.0.
ISC IV 25 21 02 28.5–1.1 38.96N–.02 37.90E–.02 1–11 115 0-4
DDA IV 25 21 02 27.9 38.98N 37.88E 13 3.2 ¶16649372
ISK IV 25 21 02 27.8 38.96N 37.90E 4 3.6
CSEM IV 25 21 02 28.5–.13 38.95N 37.88E 2 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=153.0.
ISC IV 25 21 30 17.7–1.1 38.95N–.03 37.88E–.03 16–9 38 0-2
DDA IV 25 21 30 17.9 38.96N 37.88E 7 3.0 ¶16649373
ISK IV 25 21 30 17.7 38.96N 37.92E 5 2.5
CSEM IV 25 21 30 18.3–.21 38.97N 37.90E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=4.1km az=102.0.
ISC IV 25 22 52 27.5–.98 38.01N–.02 29.37E–.02 9–9 52 0-1
ISK IV 25 22 52 26.9 38.00N 29.38E 5 2.5 ¶16649375
ISCJB IV 25 22 52 27.4–.51 38.00N–.02 29.37E–.03 3–5 2.5
DDA IV 25 22 52 27.2 38.02N 29.43E 7 2.7
CSEM IV 25 22 52 27.4–.15 38.01N 29.38E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=19.9.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=101.0.
ISC IV 26 00 17 25.6–1.1 38.98N–.04 29.86E–.03 13–9 36 0-1
ISCJB IV 26 00 17 25.7–.71 38.98N–.03 29.85E–.04 5–7 ¶16649400
DDA IV 26 00 17 25.7 39.00N 29.86E 7 2.6
CSEM IV 26 00 17 25.9–.14 38.99N 29.85E 8 2.6
ISK IV 26 00 17 26.2 38.99N 29.75E 12 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.0km az=24.6.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=126.0.
ISC IV 26 01 49 55.3–1.1 38.00N–.03 38.19E–.03 8–12 22 0-1
CSEM IV 26 01 49 53.7–.41 37.90N 38.10E 2 2.6 ¶16649402
ISK IV 26 01 49 54.4 38.00N 38.19E 7 2.6
ISCJB IV 26 01 49 55.1–.63 38.02N–.05 38.22E–.05 6–9 2.6
DDA IV 26 01 49 55.1 38.05N 38.24E 3 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=8.3km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.2km az=34.9.
ISC IV 26 04 45 06.2–.98 38.62N–.02 31.17E–.02 9–8 46 0-2
DDA IV 26 04 45 06.0 38.61N 31.15E 7 2.7 ¶16649404
ISCJB IV 26 04 45 06.2–.46 38.62N–.02 31.17E–.03 5–6 2.7
CSEM IV 26 04 45 06.2–.11 38.62N 31.16E 5 2.7
ISK IV 26 04 45 06.0 38.62N 31.16E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=4.0km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=12.0.
ISC IV 26 12 02 07.3–.88 38.42N–.03 39.65E–.03 9 31 0-2
ISK IV 26 12 02 06.9 38.45N 39.64E 8 2.6 ¶16649410
ISCJB IV 26 12 02 07.6–.50 38.43N–.03 39.69E–.04 9 2.6
DDA IV 26 12 02 07.4 38.41N 39.67E 7 2.7
CSEM IV 26 12 02 07.3–.32 38.42N 39.68E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.6km az=31.6.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.3km az=51.0.
ISC IV 26 12 07 34.6–.94 38.42N–.03 37.63E–.03 10–8 26 0-2
ISK IV 26 12 07 33.4 38.41N 37.65E 5 2.4 ¶16649411
ISCJB IV 26 12 07 34.5–.62 38.40N–.04 37.62E–.05 6–7 2.4
DDA IV 26 12 07 34.0 38.41N 37.67E 7 2.6
CSEM IV 26 12 07 34.2–.24 38.40N 37.64E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.3km az=143.3.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=39.0.
ISK IV 26 14 50 47.2 37.05N 28.34E 26 2.5
¶16649412
ISC IV 26 14 51 08.3–1.2 36.93N–.04 31.67E–.04 5–11 31 1-2
DDA IV 26 14 51 07.0 36.90N 31.48E 7 2.8 ¶16649413
CSEM IV 26 14 51 08.3–.43 36.89N 31.59E 10 2.8
ISK IV 26 14 51 09.0 36.97N 31.68E 13 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=5.1km az=53.0.
ISC IV 26 15 31 32.4–1.5 37.29N–.08 42.64E–.04 4–12 22 0-2
DDA IV 26 15 31 32.6 37.30N 42.64E 7 2.7 ¶601583819
CSEM IV 26 15 31 32.2–.69 37.29N 42.65E 0–5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.7km s-min=5.9km az=7.0.
ISC IV 26 15 56 33.9–1.6 37.30N–.09 42.63E–.03 3–13 20 0-2
CSEM IV 26 15 56 32.5–.34 37.26N 42.53E 15 2.7 ¶601583820
DDA IV 26 15 56 34.5 37.49N 42.63E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=4.7km az=11.0.
ISC IV 26 20 20 03.6–1.0 40.01N–.02 41.77E–.02 5–9 103 0-3
ISK IV 26 20 20 02.9 40.00N 41.87E 5 3.7 ¶16649416
DDA IV 26 20 20 03.9 40.02N 41.83E 10 3.4L
TIF IV 26 20 20 03.4 40.00N 41.77E 16–2 3.4L
ISCJB IV 26 20 20 04.3–.48 40.01N–.02 41.81E–.03 3–4 3.4L
CSEM IV 26 20 20 04.3–.17 40.00N 41.82E 2 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=29.1.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=119.0.
ISC IV 26 23 46 44.9–1.2 37.66N–.03 37.20E–.03 10–11 36 0-2
ISCJB IV 26 23 46 45.0–.58 37.68N–.03 37.25E–.04 1–7 ¶16649418
ISK IV 26 23 46 44.7 37.66N 37.27E 7 2.4
DDA IV 26 23 46 45.0 37.66N 37.26E 7 2.7
CSEM IV 26 23 46 45.2–.25 37.66N 37.25E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=35.2.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=124.0.
ISC IV 27 00 04 34.3–1.3 36.04N–.05 35.54E–.03 13–11 37 0-2
DDA IV 27 00 04 34.4 36.22N 35.54E 7 2.9 ¶16649445
CSEM IV 27 00 04 35.0–.28 36.03N 35.55E 15 1.4L
ISK IV 27 00 04 35.2 36.07N 35.58E 18 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=32.0.
ISC IV 27 01 06 15.2–1.1 38.66N–.02 39.67E–.02 10–11 44 0-2
ISCJB IV 27 01 06 15.6–.48 38.64N–.02 39.70E–.03 3–5 ¶16649448
DDA IV 27 01 06 15.9 38.65N 39.66E 5 2.6
ISK IV 27 01 06 15.0 38.66N 39.71E 7 2.5
CSEM IV 27 01 06 16.0–.25 38.63N 39.65E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=143.4.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=49.0.
DDA IV 27 02 27 28.0 37.61N 35.90E 7 2.7
¶601583832
ISC IV 27 02 39 43.4–.91 39.78N–.03 26.14E–.04 10–6 36 0-1
ISCJB IV 27 02 39 44.0–.58 39.79N–.03 26.10E–.06 8–4 ¶16649451
ISK IV 27 02 39 43.5 39.75N 26.19E 10 2.5
CSEM IV 27 02 39 44.2–.30 39.78N 26.14E 13–2 2.5
DDA IV 27 02 39 44.0 39.85N 26.15E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.5km az=4.7.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=4.7km az=101.0.
DDA IV 27 04 35 29.9 40.04N 41.82E 9 2.6
CSEM IV 27 04 35 29.6–.33 40.00N 41.76E 10 2.6 ¶601583835
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=7.0km az=11.0.
ISC IV 27 11 04 55.1–1.3 37.64N–.03 34.73E–.04 15–11 23 0-1
ISK IV 27 11 04 53.6 37.67N 34.96E 27 2.6 ¶16649456
ISCJB IV 27 11 04 55.8–.60 37.65N–.03 34.75E–.05 13–7 2.6
DDA IV 27 11 04 55.1 37.69N 34.73E 7 2.7
CSEM IV 27 11 04 55.1–.52 37.65N 34.77E 15 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=12.7km s-min=5.0km az=88.0.
ISC IV 27 18 55 32.8–1.0 38.99N–.02 29.84E–.02 6–10 52 0-2
DDA IV 27 18 55 32.4 38.98N 29.85E 7 2.6 ¶16649463
CSEM IV 27 18 55 32.6–.12 38.98N 29.84E 5 2.6
ISK IV 27 18 55 32.4 38.99N 29.78E 5 2.5

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=149.0.
ISC IV 27 20 32 47.6–1.1 41.07N–.03 38.73E–.02 6–8 86 0-3
ISCJB IV 27 20 32 47.2–.64 41.08N–.03 38.70E–.03 3–4 ¶16649465
DDA IV 27 20 32 47.8 41.00N 38.67E 23 2.9
CSEM IV 27 20 32 47.8–.15 41.04N 38.70E 5 3.0
ISK IV 27 20 32 47.0 41.06N 38.71E 6 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=0.5.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=3.0.
ISC IV 28 03 24 41.2–.99 40.66N–.02 34.37E–.02 18–7 58 0-2
ISK IV 28 03 24 40.9 40.68N 34.40E 9 2.9 ¶16649501
DDA IV 28 03 24 41.3 40.64N 34.39E 7 2.7
CSEM IV 28 03 24 41.5–.16 40.66N 34.38E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=154.0.
ISC IV 28 04 08 44.8–1.2 36.72N–.07 30.18E–.05 10 8 0-2
¶603516070
ISC Event type ke.
ISC IV 28 10 36 28.3–2.5 38.2N–.20 38.09E–.04 17–11 16 0-1
ISCJB IV 28 10 36 27.0–2.4 38.1N–.10 38.07E–.08 10–9 ¶16649509
CSEM IV 28 10 36 27.3–.43 38.07N 38.06E 12 2.5
ISK IV 28 10 36 28.0 38.21N 38.10E 3 2.5
DDA IV 28 10 36 30.3 38.26N 38.10E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.6km s-min=7.5km az=17.6.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=2.5km az=12.0.
ISC IV 28 10 55 04.0–1.3 40.71N–.03 37.68E–.03 2–12 28 0-1
CSEM IV 28 10 55 04.7–.34 40.69N 37.66E 10 2.6 ¶601583901
ISCJB IV 28 10 55 05.2–.61 40.68N–.03 37.64E–.05 3–12 2.6
DDA IV 28 10 55 05.3 40.68N 37.66E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.9km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.4km az=32.9.
ISC IV 28 12 57 57.5–1.1 40.52N–.03 35.75E–.02 7–10 38 1-2
CSEM IV 28 12 57 57.6–.17 40.53N 35.76E 5 2.6 ¶16649512
ISK IV 28 12 57 57.2 40.50N 35.74E 9 2.7
DDA IV 28 12 57 57.1 40.54N 35.75E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.4km az=136.0.
DDA IV 28 20 29 57.2 37.40N 39.23E 7 2.6
¶602945458
ISC IV 28 22 36 39.9–1.1 38.47N–.03 31.52E–.02 5–10 47 0-2
ISCJB IV 28 22 36 40.5–.50 38.48N–.03 31.52E–.03 8–6 ¶16649519
CSEM IV 28 22 36 40.6–.27 38.51N 31.50E 2 2.5
DDA IV 28 22 36 40.4 38.51N 31.49E 7 2.5
ISK IV 28 22 36 43.8 38.52N 31.81E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=173.1.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.6km az=31.0.
ISC IV 29 00 35 54.2–.98 39.39N–.03 29.50E–.04 8–7 29 0-1
DDA IV 29 00 35 53.7 39.40N 29.49E 7 2.6 ¶16649557
ISK IV 29 00 35 53.5 39.35N 29.49E 3 2.6
ISCJB IV 29 00 35 54.1–.64 39.39N–.03 29.49E–.05 8–4 2.6
CSEM IV 29 00 35 54.0–.20 39.39N 29.51E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=9.5.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=88.0.
ISC IV 29 01 32 45.4–1.1 40.81N–.03 34.89E–.03 14–10 36 1-1
DDA IV 29 01 32 44.8 40.78N 34.91E 7 2.6 ¶16649558
ISCJB IV 29 01 32 45.6–.49 40.80N–.03 34.89E–.05 9–6 2.6
CSEM IV 29 01 32 45.7–.15 40.79N 34.88E 5 2.6
ISK IV 29 01 32 45.5 40.80N 34.88E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=24.3.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=116.0.
ISC IV 29 08 43 30.0–1.3 39.75N–.04 39.58E–.07 12 22 0-1
CSEM IV 29 08 43 30.9–.56 39.74N 39.53E 10 2.4 ¶16649563
ISCJB IV 29 08 43 32.4–.81 39.74N–.04 39.43E–.07 12 2.4
DDA IV 29 08 43 32.3 39.73N 39.39E 7 2.6
ISK IV 29 08 43 33.3 39.60N 39.38E 22 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=6.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.7km az=163.3.
ISC IV 29 11 20 32.0–.96 39.91N–.03 27.99E–.03 17–7 29 0-1
ISK IV 29 11 20 31.9 39.91N 28.00E 5 2.2 ¶16649566
ISCJB IV 29 11 20 32.3–.68 39.92N–.03 28.00E–.06 11–12 2.2
CSEM IV 29 11 20 32.5–.09 39.91N 28.00E 10 2.2
DDA IV 29 11 20 32.7 39.91N 28.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.5km az=154.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=62.0.
ISC IV 29 11 26 14.2–.84 39.32N–.03 36.71E–.03 10–6 32 0-1
ISK IV 29 11 26 13.2 39.32N 36.83E 5 2.9 ¶16649567
CSEM IV 29 11 26 14.4–.24 39.33N 36.73E 5 2.6
DDA IV 29 11 26 14.5 39.29N 36.71E 8 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=157.0.
ISC IV 29 12 47 53.2–.95 37.38N–.04 38.51E–.04 9 24 0-2
NSSC IV 29 12 47 45.8–1.5 35.03N 41.40E 181–81 2.2L ¶16649568
CSEM IV 29 12 47 52.0 37.27N 38.52E 17 2.9
ISK IV 29 12 47 52.0 37.27N 38.52E 17 2.9
ISCJB IV 29 12 47 53.7–.76 37.46N–.05 38.42E–.07 9 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 29 14 00 16.6–1.1 39.90N–.02 33.08E–.02 4–9 52 0-2
CSEM IV 29 14 00 16.5–.20 39.90N 33.05E 8 2.5 ¶16649570
ISK IV 29 14 00 16.2 39.88N 33.05E 7 2.5
DDA IV 29 14 00 17.0 39.88N 33.08E 8 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=126.0.
ISC IV 29 14 12 27.0–.99 41.63N–.03 35.48E–.03 8–9 46 0-3
ISK IV 29 14 12 26.5 41.60N 35.45E 5 2.5 ¶16649571
CSEM IV 29 14 12 27.4–.33 41.62N 35.46E 2 2.5
DDA IV 29 14 12 29.1 41.49N 35.29E 5 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.7km az=35.0.
ISC IV 29 14 32 22.5–.80 40.07N–.03 34.92E–.03 10 31 0-2
ISK IV 29 14 32 20.5 40.19N 34.94E 5 2.5 ¶16649573
DDA IV 29 14 32 21.4 40.06N 34.98E 7 2.7L
ISCJB IV 29 14 32 22.6–.53 40.09N–.03 34.87E–.04 10 2.7L
CSEM IV 29 14 32 22.1–.28 40.07N 34.90E 2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.5km az=19.4.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.7km az=145.0.
ISC IV 29 14 46 54.9–1.3 37.18N–.06 28.39E–.08 17–6 16 0-1
CSEM IV 29 14 46 53.9–.61 37.19N 28.44E 20 2.6 ¶16649574
ISCJB IV 29 14 46 55.5–1.0 37.06N–.06 28.36E–.08 15–10 2.6
ISK IV 29 14 46 56.5 37.11N 28.24E 13 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.2km s-min=8.7km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=7.6km az=44.8.
ISC IV 29 14 47 49.6–1.1 39.89N–.03 33.06E–.03 5–10 26 0-2
ISK IV 29 14 47 48.7 39.92N 33.07E 5 2.5 ¶16649575
ISCJB IV 29 14 47 49.7–.75 39.88N–.04 33.10E–.05 1–9 2.5
CSEM IV 29 14 47 49.5–.30 39.89N 33.09E 8 2.5
DDA IV 29 14 47 50.0 39.86N 33.07E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.8km az=151.8.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.8km az=100.0.

ISC IV 29 16 07 39.8–.89 40.45N–.04 26.93E–.02 17–6 34 0-1
DDA IV 29 16 07 39.9 40.39N 26.97E 7 2.7 ¶16649579
ISK IV 29 16 07 39.4 40.45N 26.94E 16 2.3
CSEM IV 29 16 07 39.6–.21 40.44N 26.94E 18–2 2.3
ISCJB IV 29 16 07 40.1–.63 40.45N–.04 26.95E–.03 12–7 2.3
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 29 16 37 16.8–1.1 38.83N–.05 40.24E–.03 15–10 25 0-2
DDA IV 29 16 37 16.6 38.71N 40.23E 7 2.7 ¶16649580
ISK IV 29 16 37 16.4 38.83N 40.26E 18 2.4
CSEM IV 29 16 37 17.0–.62 39.08N 40.16E 10 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=9.5km az=15.0.
ISC IV 29 18 13 59.2–1.4 37.88N–.04 36.17E–.06 12–10 28 0-1
DDA IV 29 18 13 57.4 37.93N 36.11E 7 3.0L ¶16649582
CSEM IV 29 18 13 59.6–.52 37.90N 36.18E 8 3.0L
ISK IV 29 18 13 59.1 37.87N 36.25E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.1km s-min=7.9km az=74.0.
ISC IV 29 19 54 46.1–1.0 36.86N–.03 34.26E–.05 14–9 21 0-1
CSEM IV 29 19 54 46.8–.32 36.86N 34.27E 10 2.8 ¶601583970
DDA IV 29 19 54 46.9 36.85N 34.23E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=5.7km az=119.0.
ISC IV 29 23 05 21.0–1.5 39.04N–.04 42.32E–.05 1–14 27 0-2
CSEM IV 29 23 05 21.8–.34 39.03N 42.33E 10 2.8 ¶16649589
ISCJB IV 29 23 05 22.1–.81 39.01N–.03 42.34E–.06 8–7 2.8
ISK IV 29 23 05 22.0 39.06N 42.34E 8 2.9
DDA IV 29 23 05 22.5 39.01N 42.26E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=6.4km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.9km az=0.1.
ISC IV 30 02 01 06.7–.91 40.85N–.03 30.53E–.02 13–7 51 0-2
ISK IV 30 02 01 06.5 40.85N 30.53E 5 2.5 ¶16649637
ISCJB IV 30 02 01 07.2–.50 40.84N–.03 30.52E–.03 3–6 2.5
CSEM IV 30 02 01 07.1–.15 40.85N 30.54E 8 2.5
DDA IV 30 02 01 07.2 40.83N 30.57E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=20.2.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=27.0.
ISC IV 30 02 51 02.7–.98 37.56N–.03 35.55E–.02 18–8 57 0-2
CSEM IV 30 02 51 01.8–.28 37.62N 35.58E 12 2.5 ¶16649639
ISK IV 30 02 51 01.4 37.59N 35.53E 19 2.5
ISCJB IV 30 02 51 02.7–.53 37.61N–.03 35.56E–.03 17–5 2.5
DDA IV 30 02 51 02.8 37.51N 35.59E 17 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.7km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=174.2.
ISC IV 30 03 33 57.3–1.2 37.15N–.03 35.85E–.03 13–9 32 0-1
CSEM IV 30 03 33 56.6–.42 37.19N 35.89E 2 2.4 ¶16649640
ISK IV 30 03 33 56.6 37.16N 35.83E 4 2.4
ISCJB IV 30 03 33 57.5–.49 37.15N–.03 35.87E–.03 7–6 2.4
DDA IV 30 03 33 59.8 37.10N 35.67E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=7.3km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=19.9.
ISC IV 30 07 30 28.6–.96 41.17N–.04 34.22E–.03 9–9 36 0-2
ISK IV 30 07 30 27.8 41.17N 34.21E 8 2.8 ¶16649645
ISCJB IV 30 07 30 28.5–.58 41.16N–.04 34.23E–.04 4–7 2.8
CSEM IV 30 07 30 28.4–.18 41.17N 34.21E 10 2.8
DDA IV 30 07 30 29.2 41.11N 34.23E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.8km az=147.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=145.0.
ISC IV 30 08 39 19.3–1.2 38.69N–.02 30.24E–.02 3–14 40 1-2
DDA IV 30 08 39 18.6 38.66N 30.24E 7 2.7 ¶16649647
ISCJB IV 30 08 39 19.4–.56 38.68N–.03 30.23E–.03 7–5 2.7
CSEM IV 30 08 39 19.8–.19 38.71N 30.23E 8 2.7
ISK IV 30 08 39 20.6 38.73N 30.17E 20 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=171.1.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=162.0.
ISC IV 30 08 48 11.7–2.0 40.09N–.04 27.02E–.04 0–17 24 0-1
ISCJB IV 30 08 48 12.7–1.1 40.05N–.05 27.00E–.06 4–14 ¶16649648
CSEM IV 30 08 48 12.8–.22 40.05N 27.02E 10 2.6
ISK IV 30 08 48 12.1 40.05N 27.04E 7 2.6
DDA IV 30 08 48 12.2 40.05N 27.04E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.6km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=45.0.
ISC IV 30 09 24 19.1–1.0 40.92N–.03 29.74E–.02 6–10 40 0-2
ISCJB IV 30 09 24 18.7–.52 40.92N–.04 29.72E–.03 2–7 ¶16649651
DDA IV 30 09 24 18.2 40.93N 29.71E 7 2.6
CSEM IV 30 09 24 19.0–.12 40.92N 29.73E 5 2.5
ISK IV 30 09 24 19.0 40.90N 29.68E 6 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=13.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=15.0.
ISC IV 30 09 38 29.5–1.2 38.51N–.04 35.07E–.04 10 22 0-1
CSEM IV 30 09 38 28.9–.44 38.48N 35.09E 10 2.4 ¶16649653
ISK IV 30 09 38 28.2 38.54N 35.05E 5 2.4
DDA IV 30 09 38 34.4 38.82N 35.12E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=6.6km az=139.0.
ISC IV 30 09 39 47.9–1.2 36.64N–.04 34.19E–.06 16–10 24 0-1
ISK IV 30 09 39 46.2 36.83N 34.03E 5 2.2 ¶16649654
ISCJB IV 30 09 39 48.9–1.1 36.58N–.07 34.28E–.09 17–14 2.2
CSEM IV 30 09 39 48.7–.35 36.63N 34.23E 5 2.5
DDA IV 30 09 39 48.9 36.65N 34.17E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.4km s-min=5.7km az=42.6.
CSEM Event type ke. Error ellipse: s-maj=14.3km s-min=5.3km az=128.0.
ISC IV 30 10 52 46.0–1.2 36.24N–.03 30.93E–.02 10–9 3.4b 156 1-39
DDA IV 30 10 52 46.3 36.28N 30.99E 20 3.6L ¶16649659
CSEM IV 30 10 52 46.5–.11 36.17N 30.91E 10 3.6L
ISK IV 30 10 52 46.3 36.24N 30.91E 13 3.2L
IDC IV 30 10 52 48.3–4.8 36.27N 30.92E 36–47 3.5,3.4
HLW IV 30 10 52 54.4 35.67N 30.60E 25–13 4.0,3.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=23.0.
IDC Error ellipse: s-maj=37.5km s-min=23.6km az=110.0.
ISC IV 30 13 19 22.8–1.5 37.35N–.04 31.89E–.03 1–15 30 1-2
DDA IV 30 13 19 19.9 37.35N 31.74E 4 3.0 ¶16649666
CSEM IV 30 13 19 23.8–.31 37.31N 31.87E 2 2.7
ISK IV 30 13 19 24.6 37.41N 31.84E 9 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=6.2km az=6.0.
ISC IV 30 15 26 05.0–1.0 38.19N–.02 42.57E–.01 5–7 3.9b,3.0s 239 0-78
AZER IV 30 15 25 36.5–7.4 37.47N 39.73E 15 3.9b,3.0s ¶16649672
ISN IV 30 15 25 59.3–.30 37.99N 42.76E 0 4.3L,3.0s
DDA IV 30 15 26 03.5 38.18N 42.53E 5 4.5L,3.0s
MOS IV 30 15 26 03.2–1.9 38.02N 42.57E 10 4.0b,3.0s
ISCJB IV 30 15 26 04.8–.49 38.14N–.02 42.58E–.02 10–4 3.7b,3.0s
CSEM IV 30 15 26 04.6–.17 38.18N 42.60E 2 4.0b,3.0s
ISK IV 30 15 26 04.2 38.20N 42.64E 8 4.1L,3.0s
TIF IV 30 15 26 06.0 42.56N 43.53E 11–0 4.1L,3.0s
IDC IV 30 15 26 06.9–3.3 38.17N 42.56E 23–23 3.7,3.6
NSSC IV 30 15 26 06.4–1.6 38.66N 41.78E 114–31 4.1L,3.6
NSSP IV 30 15 26 08.2 38.10N 42.60E 4 4.1s,3.6
ISC Event type ke.

AZER Error ellipse: s-maj=91.4km s-min=55.6km az=153.0.
ISN Error ellipse: s-maj=2.9km s-min=0.7km az=-1.0.
MOS Error ellipse: s-maj=9.7km s-min=4.8km az=93.8.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=143.1.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=167.0.
IDC Error ellipse: s-maj=17.9km s-min=10.7km az=156.0.
NSSC Error ellipse: s-maj=21.5km s-min=26.3km az=-1.0.

ISC	**IV**	**30 15 43 58.9–1.1**	**40.28N–.02**	**29.15E–.02**	**1–10**		**72**	**0-2**
DDA	IV	30 15 43 58.6	40.29N	29.12E	5	2.8		¶16649674
ISK	IV	30 15 43 58.4	40.29N	29.14E	8	2.6		
CSEM	IV	30 15 43 59.0–.11	40.28N	29.15E	2	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=147.0.

ISC	**IV**	**30 15 54 23.2–1.4**	**38.94N–.03**	**37.80E–.03**	**3–13**		**28**	**0-2**
DDA	IV	30 15 54 22.4	38.96N	37.80E	7	2.9		¶16649675
ISK	IV	30 15 54 22.3	38.94N	37.84E	5	2.6		
CSEM	IV	30 15 54 23.1–.34	38.95N	37.81E	2	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=7.4km az=109.0.

ISC	**IV**	**30 16 45 07.8–1.0**	**37.91N–.02**	**27.29E–.03**	**6–11**		**34**	**0-2**
ISCJB	IV	30 16 45 07.5–.47	37.91N–.03	27.31E–.04	8–8			¶16649676
CSEM	IV	30 16 45 07.7–.16	37.91N	27.30E	8	2.6		
DDA	IV	30 16 45 07.8	37.88N	27.28E	7	2.6		
ISK	IV	30 16 45 07.2	37.92N	27.29E	6	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=56.0.

ISC	**IV**	**30 17 17 28.9–1.3**	**39.96N–.04**	**40.06E–.03**	**5–16**		**20**	**0-1**
CSEM	IV	30 17 17 29.7–.47	39.95N	40.03E	5	2.4		¶16649677
ISK	IV	30 17 17 29.3	40.00N	40.11E	5	2.4		
ISCJB	IV	30 17 17 30.3–.64	40.00N–.04	40.01E–.04	3–17	2.4		
DDA	IV	30 17 17 30.8	40.10N	40.05E	7	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=6.6km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.0km az=145.8.

ISC	**IV**	**30 17 29 33.9–1.1**	**38.36N–.03**	**27.20E–.03**	**5–9**		**34**	**0-3**
DDA	IV	30 17 29 32.8	38.41N	27.15E	7	2.6		¶16649678
ISK	IV	30 17 29 33.4	38.34N	27.23E	6	2.6		
CSEM	IV	30 17 29 34.2–.21	38.36N	27.25E	5	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=65.0.

ISC	**IV**	**30 20 33 48.4–1.0**	**38.98N–.02**	**29.83E–.02**	**8–9**		**64**	**0-2**
DDA	IV	30 20 33 48.1	38.99N	29.83E	7	3.1L		¶16649681
CSEM	IV	30 20 33 48.5–.13	38.99N	29.82E	2	3.1L		
ISK	IV	30 20 33 48.3	38.98N	29.77E	4	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=153.0.

ISC	**IV**	**30 21 04 53.1–1.1**	**37.92N–.03**	**27.32E–.03**	**13–10**		**30**	**0-2**
ISK	IV	30 21 04 52.5	37.92N	27.32E	3	2.4		¶16649682
ISCJB	IV	30 21 04 53.4–.57	37.93N–.04	27.34E–.05	7–8	2.4		
CSEM	IV	30 21 04 53.5–.16	37.93N	27.34E	10	2.4		
DDA	IV	30 21 04 53.5	37.94N	27.31E	7	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.5km az=135.4.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=71.0.

ISC	**V**	**01 00 17 25.4–1.2**	**40.41N–.02**	**34.33E–.02**	**0–11**		**117**	**0-4**
DDA	V	01 00 17 24.6	40.39N	34.36E	8	3.6L		¶16853086
CSEM	V	01 00 17 25.7–.13	40.42N	34.31E	2	3.2L		
ISK	V	01 00 17 25.4	40.42N	34.30E	5	3.2L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.2km az=176.0.

ISC	**V**	**01 01 52 33.0–.89**	**37.90N–.02**	**27.31E–.03**	**12–8**		**42**	**0-2**
ISCJB	V	01 01 52 33.1–.46	37.92N–.03	27.32E–.04	8–5			¶16853088
ISK	V	01 01 52 33.4	37.95N	27.35E	5	2.5		
CSEM	V	01 01 52 33.3–.21	37.92N	27.35E	2	2.6		
DDA	V	01 01 52 33.2	37.89N	27.28E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=152.9.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=65.0.

ISC	**V**	**01 08 36 29.9–1.1**	**40.85N–.02**	**28.13E–.01**	**4–10**		**238**	**0-7**
SOF	V	01 08 36 24.4	40.55N	28.41E	2	3.3		¶16853090
ATH	V	01 08 36 28.2	40.81N	28.13E	14–2	3.4L		
THE	V	01 08 36 29.9	40.84N	28.16E	0–1	3.6L		
ISK	V	01 08 36 30.5	40.85N	28.14E	10	3.2L		
CSEM	V	01 08 36 30.8–.09	40.85N	28.12E	10	3.2L		
ISCJB	V	01 08 36 30.5–.30	40.87N–.02	28.11E–.02	11–2	3.2L		
DDA	V	01 08 36 30.9	40.82N	28.13E	5	3.7L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.6km az=8.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=173.3.

ISC	**V**	**01 15 04 29.5–.86**	**39.06N–.01**	**28.01E–.01**	**13–7**		**222**	**0-3**
ISCJB	V	01 15 04 29.0–.38	39.04N–.01	28.00E–.02	6–3			¶16853096
DDA	V	01 15 04 28.4	39.06N	28.02E	25	4.1L		
ISK	V	01 15 04 29.0	39.06N	27.97E	7	3.3L		
CSEM	V	01 15 04 29.2–.08	39.04N	27.98E	5	3.3L		
THE	V	01 15 04 29.0	39.00N	28.00E	0–1	3.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=32.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=87.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=59.0.

ISC	**V**	**01 15 09 06.8–1.0**	**38.07N–.03**	**37.46E–.03**	**14–9**		**28**	**0-2**
DDA	V	01 15 09 06.6	37.99N	37.53E	7	2.6L		¶16853097
ISK	V	01 15 09 06.4	38.04N	37.45E	5	2.6		
CSEM	V	01 15 09 06.6–.36	38.03N	37.47E	2	2.6L		
ISCJB	V	01 15 09 07.2–.62	38.05N–.03	37.49E–.05	6–7	2.6L		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**V**	**01 21 50 26.4–1.2**	**37.15N–.02**	**34.56E–.02**	**89–5**		**141**	**0-4**
ISCJB	V	01 21 50 26.3–.34	37.17N–.02	34.58E–.02	87–5			¶17330112
DDA	V	01 21 50 26.3	37.20N	34.53E	84	3.6		
CSEM	V	01 21 50 27.3–.11	37.18N	34.55E	80	3.6		
NIC	V	01 21 50 30.2–.40	36.90N	34.23E	76	3.6		
NSSC	V	01 21 50 31.2–1.7	36.92N	34.93E	113–32	3.1L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=20.8.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=60.0.
NSSC Error ellipse: s-maj=10.3km s-min=28.6km az=-1.0.

ISC	**V**	**01 23 07 01.5–1.2**	**36.23N–.03**	**31.94E–.02**	**18–5**		**100**	**0-5**
NSSC	V	01 23 07 02.8–.99	36.27N	32.19E	10–40	2.1L		¶16486832
ISK	V	01 23 07 02.2	36.27N	31.94E	16	3.2		
CSEM	V	01 23 07 03.9–.20	36.26N	31.94E	30	3.2		
DDA	V	01 23 07 04.6	36.41N	31.77E	54	3.2		
NIC	V	01 23 07 05.7–.20	36.16N	32.08E	30	3.2L		

ISC Event type ke.
NSSC Error ellipse: s-maj=12.6km s-min=40.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.0km az=44.0.

DDA	**V**	**02 01 49 02.7**	**39.91N**	**41.92E**	**7**	**2.5**		
								¶602861414
ISC	**V**	**02 08 51 59.3–1.1**	**37.28N–.03**	**28.22E–.04**	**5–11**		**23**	**0-1**
ISK	V	02 08 51 58.1	37.31N	28.27E	4	2.9		¶16853124
CSEM	V	02 08 51 59.6–.31	37.28N	28.25E	2	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.4km az=59.0.

ISC	**V**	**02 09 03 03.2–1.4**	**37.18N–.05**	**39.24E–.05**	**7–12**		**21**	**0-2**
ISK	V	02 09 03 02.2	37.18N	39.20E	2	2.7		¶16853125
ISCJB	V	02 09 03 03.4–.79	37.18N–.06	39.23E–.04	3–10	2.7		
CSEM	V	02 09 03 03.1–.37	37.16N	39.21E	8	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.7km az=160.6.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=5.1km az=170.0.

ISC	**V**	**02 09 39 10.1–1.1**	**37.87N–.02**	**27.42E–.02**	**5–14**		**34**	**0-1**
ISCJB	V	02 09 39 09.8–.48	37.87N–.03	27.42E–.03	4–10			¶16853129
DDA	V	02 09 39 09.8	37.84N	27.43E	7	2.5		
ISK	V	02 09 39 09.4	37.89N	27.43E	10	2.3		
CSEM	V	02 09 39 10.0–.15	37.88N	27.42E	5	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.0km az=27.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=50.0.

ISC	**V**	**02 10 03 51.7–.86**	**40.87N–.02**	**29.29E–.02**	**15–7**		**65**	**0-2**
ISCJB	V	02 10 03 51.9–.36	40.86N–.03	29.31E–.03	4–5			¶16853130
ISK	V	02 10 03 51.6	40.86N	29.29E	7	2.6,2.4L		
DDA	V	02 10 03 51.8	40.89N	29.34E	9	2.7,2.4L		
CSEM	V	02 10 03 52.1–.07	40.86N	29.30E	8	2.7,2.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=25.0.

ISC	**V**	**02 10 14 07.1–1.4**	**37.26N–.03**	**31.89E–.04**	**2–12**		**29**	**1-2**
DDA	V	02 10 14 06.0	37.21N	31.66E	7	2.7		¶16853131
CSEM	V	02 10 14 07.8–.30	37.29N	31.90E	10	2.9		
ISK	V	02 10 14 08.2	37.35N	31.88E	13	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.3km az=73.0.

ISC	**V**	**02 10 19 51.1–1.1**	**38.18N–.03**	**30.99E–.03**	**15–10**		**28**	**0-1**
ISK	V	02 10 19 49.9	38.18N	30.98E	5	2.3		¶16853132
DDA	V	02 10 19 50.9	38.16N	30.99E	7	2.6		
ISCJB	V	02 10 19 51.2–.64	38.18N–.03	31.01E–.06	4–10	2.6		
CSEM	V	02 10 19 51.2–.16	38.17N	30.99E	10	2.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.0km az=18.4.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=126.0.

ISC	**V**	**02 10 40 43.0–1.1**	**40.80N–.03**	**31.54E–.02**	**4–13**		**42**	**0-2**
ISCJB	V	02 10 40 42.7–.57	40.80N–.04	31.55E–.04	2–6			¶16853133
CSEM	V	02 10 40 42.9–.13	40.77N	31.55E	2	2.6		
ISK	V	02 10 40 42.4	40.76N	31.55E	3	2.6		
DDA	V	02 10 40 42.5	40.77N	31.56E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.2km az=158.8.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.3km az=152.0.

ISC	**V**	**02 15 36 48.6–1.1**	**39.44N–.05**	**31.60E–.04**	**3–7**		**31**	**0-2**
ISK	V	02 15 36 47.8	39.37N	31.55E	4	2.9		¶16853143
CSEM	V	02 15 36 48.2–.28	39.46N	31.62E	2	2.9		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=49.0.

ISC	**V**	**02 16 42 03.1–.90**	**38.64N–.03**	**30.78E–.03**	**14–7**		**34**	**0-2**
ISCJB	V	02 16 42 03.2–.76	38.64N–.04	30.79E–.05	10–7			¶16853145
DDA	V	02 16 42 03.1	38.61N	30.78E	7	2.3		
ISK	V	02 16 42 03.2	38.70N	30.81E	18	2.8		
CSEM	V	02 16 42 03.0–.18	38.65N	30.78E	10	2.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.9km az=22.3.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=2.0.

ISC	**V**	**02 17 35 11.2–.89**	**40.87N–.02**	**29.32E–.02**	**12–7**		**75**	**0-2**
ISCJB	V	02 17 35 10.9–.37	40.89N–.03	29.31E–.03	3–4			¶16853147
DDA	V	02 17 35 10.9	40.89N	29.32E	9	2.7		
ISK	V	02 17 35 10.8	40.87N	29.31E	12	2.1L		
CSEM	V	02 17 35 11.2–.09	40.89N	29.32E	8	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=3.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=21.0.

ISC	**V**	**02 23 22 25.8–.94**	**37.91N–.03**	**27.43E–.03**	**12–8**		**34**	**0-2**
ISK	V	02 23 22 25.9	37.91N	27.46E	18	2.8		¶16853149
CSEM	V	02 23 22 26.5–.28	37.89N	27.46E	2	2.5		
DDA	V	02 23 22 26.2	37.86N	27.45E	10	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.6km az=66.0.

ISC	**V**	**03 02 10 24.2–1.1**	**37.34N–.03**	**36.04E–.02**	**10–10**		**41**	**0-2**
ISK	V	03 02 10 23.6	37.32N	36.11E	14	2.8		¶16853160
CSEM	V	03 02 10 24.6–.31	37.35N	36.00E	8	2.8		
DDA	V	03 02 10 24.6	37.38N	36.03E	7	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=6.5km az=177.0.

ISC	**V**	**03 09 33 37.0–.85**	**38.44N–.04**	**27.34E–.03**	**16–6**		**34**	**0-1**
ISCJB	V	03 09 33 37.0–.50	38.46N–.04	27.35E–.04	12–4			¶16853164
ISK	V	03 09 33 36.5	38.45N	27.31E	18	2.5		
CSEM	V	03 09 33 36.9–.10	38.44N	27.34E	15	2.5		
DDA	V	03 09 33 37.1	38.43N	27.34E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.4km az=155.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=159.0.

ISC	**V**	**03 11 44 18.2–1.0**	**37.85N–.03**	**27.29E–.03**	**19–3**		**33**	**0-1**
ISK	V	03 11 44 17.2	37.84N	27.28E	12	2.3		¶16853167
ISCJB	V	03 11 44 18.2–.46	37.87N–.03	27.31E–.04	12–5	2.3		
CSEM	V	03 11 44 18.2–.19	37.85N	27.29E	15	2.8		
DDA	V	03 11 44 18.4	37.88N	27.30E	7	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.6km az=61.0.

DDA	**V**	**03 13 30 34.0**	**38.73N**	**39.23E**	**8**	**2.3**		
								¶602861447
DDA	**V**	**03 14 02 16.8**	**38.99N**	**38.04E**	**37**	**2.6**		
								¶602861451
ISC	**V**	**03 14 47 02.9–.96**	**37.24N–.03**	**28.23E–.02**	**9–9**		**34**	**0-1**
DDA	V	03 14 47 02.9	37.22N	28.19E	7	2.5		¶16853171
ISK	V	03 14 47 02.2	37.25N	28.19E	5	2.6		
CSEM	V	03 14 47 03.4–.16	37.24N	28.20E	5	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=32.0.

ISC	**V**	**03 15 10 07.0–1.3**	**39.72N–.03**	**30.72E–.03**	**1–11**		**49**	**0-2**
ISK	V	03 15 10 06.9	39.67N	30.69E	9	2.8		¶16853173
CSEM	V	03 15 10 07.4–.14	39.72N	30.73E	5	2.8		
DDA	V	03 15 10 08.9	39.78N	30.56E	8	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=34.0.

ISC	**V**	**03 22 31 57.9–1.6**	**37.63N–.04**	**29.49E–.05**	**2–13**		**20**	**0-1**
ISCJB	V	03 22 31 57.8–1.2	37.60N–.05	29.6E–.10	8–8			¶16853183
CSEM	V	03 22 31 57.6–.50	37.60N	29.61E	15	2.8		
ISK	V	03 22 31 57.7	37.62N	29.50E	7	2.8		
DDA	V	03 22 32 05.5	37.87N	29.25E	7	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=7.7km az=16.8.
CSEM Event type ke. Error ellipse: s-maj=11.8km s-min=6.7km az=92.0.

ISC	**V**	**03 23 04 57.4–1.3**	**37.97N–.05**	**37.19E–.04**	**27–14**		**23**	**1-2**
CSEM	V	03 23 04 57.3–.47	37.99N	37.20E	12	2.5		¶16853184
ISK	V	03 23 04 57.1	38.00N	37.21E	15	2.4		
DDA	V	03 23 05 03.6	37.43N	37.38E	7	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=10.6km az=16.0.

ISC	**V**	**04 00 19 44.6–1.1**	**38.79N–.03**	**38.10E–.02**	**8–10**		**37**	**1-2**
ISK	V	04 00 19 43.5	38.78N	38.10E	9	2.7		¶16853196
DDA	V	04 00 19 44.8	38.78N	38.07E	7	2.7		
CSEM	V	04 00 19 44.4–.24	38.76N	38.12E	10	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.3km az=19.0.

ISK	**V**	**04 02 14 32.0**	**36.93N**	**29.33E**	**5**	**2.8**		
DDA	V	04 02 14 33.4	36.93N	29.29E	7	2.7		¶16853201
CSEM	V	04 02 14 33.6–.16	36.90N	29.35E	5	2.8		
ATH	V	04 02 14 36.7	36.94N	29.00E	15–3	2.3L		
THE	V	04 02 15 27.0	36.41N	25.41E	4–1	1.1L		

CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=157.0.

ATH Event type ke. Error ellipse: s-maj=7.3km s-min=1.7km az=270.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.4km az=247.0.
ISC V 04 02 16 39.8–1.0 36.95N–.02 29.33E–.02 8–7 3.5b 260 0-92
ATH V 04 02 16 38.6 36.96N 29.25E 5–1 3.4L ¶16491554
ISK V 04 02 16 38.3 36.96N 29.32E 3 3.5L
ISCJB V 04 02 16 39.1–.39 36.95N–.02 29.34E–.02 7–3 3.5b,3.1s
DDA V 04 02 16 39.1 36.93N 29.33E 19 3.9L,3.1s
CSEM V 04 02 16 39.6–.10 36.95N 29.35E 2 3.5L,3.1s
THE V 04 02 16 41.0 36.90N 29.28E 1–1 3.6L,3.1s
IDC V 04 02 16 42.6–4.1 36.96N 29.38E 30–34 3.6,3.6
NSSC V 04 02 16 44.8–1.6 37.10N 31.18E 428–58 2.8L,3.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=191.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=163.9.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=155.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=1.3km az=76.0.
IDC Error ellipse: s-maj=17.4km s-min=16.0km az=161.0.
NSSC Error ellipse: s-maj=19.7km s-min=66.6km az=-1.0.
ISC V 04 07 36 36.5–1.0 38.16N–.03 38.94E–.04 12–11 27 0-2
DDA V 04 07 36 36.6 38.12N 39.01E 8 2.5 ¶16853210
ISK V 04 07 36 36.7 38.14N 38.98E 6 2.0
CSEM V 04 07 36 37.1–.14 38.12N 38.99E 2 2.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=108.0.
ISC V 04 13 57 08.7–1.4 37.31N–.05 28.24E–.05 3–12 28 0-1
DDA V 04 13 57 08.0 37.28N 28.34E 7 2.3 ¶16853212
ISK V 04 13 57 08.3 37.25N 28.16E 5 2.6
CSEM V 04 13 57 09.7–.21 37.24N 28.17E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.5km az=45.0.
ISC V 04 18 39 18.6–.83 38.91N–.03 27.93E–.02 9–6 63 0-6
ISCJB V 04 18 39 18.9–.42 38.87N–.03 27.94E–.03 5–5 ¶16853219
CSEM V 04 18 39 18.8–.11 38.88N 27.96E 2 2.8
ISK V 04 18 39 18.2 38.89N 27.96E 3 2.8
DDA V 04 18 39 18.3 38.94N 27.94E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=157.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=157.0.
ISC V 04 18 46 12.7–1.1 36.93N–.02 29.35E–.02 3–9 149 0-5
ISK V 04 18 46 11.1 36.93N 29.35E 5 3.3 ¶16853220
DDA V 04 18 46 12.2 36.93N 29.37E 20 3.4L
ATH V 04 18 46 12.7 36.97N 29.22E 11–4 2.5L
CSEM V 04 18 46 12.4–.09 36.93N 29.37E 2 3.3
THE V 04 18 46 12.4 36.84N 29.45E 2–2 3.2L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.7km s-min=1.9km az=211.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=158.0.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=1.2km az=137.0.
ISC V 05 01 53 48.1–.92 36.48N–.02 35.88E–.02 11–7 95 0-4
ISCJB V 05 01 53 48.0–.42 36.46N–.02 35.90E–.03 7–3 ¶16853235
DDA V 05 01 53 48.0 36.48N 35.88E 6 3.2L
ISK V 05 01 53 47.0 36.46N 35.88E 10 3.1
CSEM V 05 01 53 48.2–.13 36.47N 35.86E 10 3.1
NSSC V 05 01 53 48.0–1.0 36.50N 35.92E 7–3 2.4L,1.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=157.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=65.0.
NSSC Error ellipse: s-maj=3.0km s-min=5.2km az=-1.0.
ISC V 05 03 32 26.9–1.1 37.49N–.03 27.45E–.04 18–4 23 0-1
ISCJB V 05 03 32 27.4–.75 37.49N–.03 27.48E–.05 9–13 ¶16853236
CSEM V 05 03 32 27.4–.10 37.49N 27.46E 10 2.5
ISK V 05 03 32 27.3 37.47N 27.50E 6 2.5
DDA V 05 03 32 27.3 37.49N 27.48E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.2km az=177.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=109.0.
DDA V 05 10 45 59.2 37.63N 37.26E 7 2.6
¶602861495
ISC V 05 10 59 01.9–.96 38.52N–.04 27.31E–.05 11 20 1-1
DDA V 05 10 59 01.8 38.59N 27.33E 7 2.7 ¶600916744
ISCJB V 05 10 59 02.6–.78 38.53N–.04 27.33E–.06 11 2.7
CSEM V 05 10 59 02.0–.38 38.53N 27.35E 10 1.6L
ATH V 05 10 59 03.4 38.52N 27.21E 27–5 1.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.3km az=35.2.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=6.4km az=125.0.
ATH Event type ke. Error ellipse: s-maj=6.3km s-min=1.6km az=248.0.
ISC V 05 12 23 06.7–.98 41.40N–.03 35.86E–.04 15–10 28 0-2
ISK V 05 12 23 04.4 41.45N 35.95E 20 2.7 ¶16853247
ISCJB V 05 12 23 06.5–.78 41.43N–.04 35.85E–.06 3–11 2.7
CSEM V 05 12 23 06.0–.53 41.42N 35.90E 10 2.4
DDA V 05 12 23 07.5 41.39N 35.85E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.2km az=135.4.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=7.1km az=53.0.
ISC V 05 12 44 42.4–.76 40.30N–.02 29.12E–.02 10–6 56 0-2
ISK V 05 12 44 40.5 40.24N 29.13E 5 2.2L ¶16853249
CSEM V 05 12 44 40.9–.07 40.24N 29.14E 12 2.0
DDA V 05 12 44 43.8 40.31N 29.16E 6 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=1.0.
ISC V 05 16 00 20.0–.88 39.04N–.03 33.75E–.04 15–7 36 0-2
ISK V 05 16 00 18.7 39.17N 33.31E 13 2.9 ¶16853252
DDA V 05 16 00 20.2 39.01N 33.85E 7 2.6
CSEM V 05 16 00 20.6–.25 39.02N 33.84E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.6km az=167.0.
ISC V 05 22 13 52.6–.98 38.48N–.02 39.24E–.02 20–2 35 0-2
CSEM V 05 22 13 52.4–.20 38.43N 39.25E 8 2.6 ¶16853254
ISK V 05 22 13 52.6 38.46N 39.26E 8 2.6
DDA V 05 22 13 52.8 38.46N 39.23E 7 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=66.0.
ISC V 06 00 35 13.4–1.7 36.60N–.05 30.21E–.07 25–14 24 0-2
ISK V 06 00 35 13.6 37.15N 29.93E 9 2.6 ¶16853261
DDA V 06 00 35 14.8 36.56N 30.09E 7 2.4
CSEM V 06 00 35 17.0–.87 36.83N 29.91E 10 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=23.2km s-min=17.7km az=144.0.
ISC V 06 05 09 37.9–.86 37.38N–.03 38.81E–.02 6–6 66 0-2
ISK V 06 05 09 37.8 37.39N 38.83E 4 2.9 ¶16853265
ISCJB V 06 05 09 38.3–.60 37.38N–.03 38.80E–.02 2–5 2.9
DDA V 06 05 09 38.4 37.39N 38.78E 7 2.9
CSEM V 06 05 09 38.5–.14 37.39N 38.81E 8 2.9
NSSC V 06 05 09 39.0–.98 37.35N 38.76E 11–10 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=155.0.
NSSC Error ellipse: s-maj=10.2km s-min=3.1km az=-1.0.
ISC V 06 05 37 07.6–1.1 36.93N–.02 29.37E–.02 9–9 64 0-3
ISK V 06 05 37 06.3 36.91N 29.33E 3 3.0 ¶16853266
DDA V 06 05 37 07.7 36.92N 29.33E 7 2.9L
CSEM V 06 05 37 07.4–.17 36.90N 29.33E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=175.0.
ISC V 06 09 18 32.5–.97 40.71N–.03 29.24E–.02 19–2 49 0-2
ISCJB V 06 09 18 32.9–.40 40.69N–.03 29.24E–.03 10–5 ¶16853271
CSEM V 06 09 18 32.9–.15 40.68N 29.25E 12 2.6
ISK V 06 09 18 32.4 40.68N 29.25E 18 2.4
DDA V 06 09 18 32.4 40.70N 29.24E 15 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=136.4.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=159.0.
ISC V 06 10 27 02.6–1.4 37.24N–.04 31.86E–.04 10–12 23 1-2
DDA V 06 10 27 00.2 37.20N 31.68E 7 3.2 ¶16853272
ISK V 06 10 27 01.4 37.21N 31.92E 14 2.7
CSEM V 06 10 27 02.7–.45 37.26N 31.88E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=7.7km az=37.0.
ISC V 06 12 05 16.6–.95 40.38N–.02 34.37E–.02 15–9 59 0-2
CSEM V 06 12 05 16.6–.19 40.40N 34.36E 5 2.7 ¶16853276
ISK V 06 12 05 16.0 40.39N 34.38E 7 2.7
DDA V 06 12 05 16.3 40.37N 34.37E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=5.0.
ISC V 06 13 18 26.4–1.0 38.72N–.02 38.91E–.03 18–4 34 0-2
ISK V 06 13 18 25.1 38.73N 38.83E 11 2.5 ¶16853279
DDA V 06 13 18 26.6 38.73N 38.91E 7 2.7
CSEM V 06 13 18 26.1–.32 38.74N 38.85E 2 2.7
ISCJB V 06 13 18 27.5–.48 38.69N–.04 38.96E–.04 22–10 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 06 14 45 48.1–1.1 37.06N–.04 28.21E–.04 20–4 22 0-1
ISK V 06 14 45 46.4 37.02N 28.20E 28 3.0 ¶16853281
CSEM V 06 14 45 47.1–.44 37.02N 28.16E 20 3.0
ISCJB V 06 14 45 50.3–.70 37.25N–.04 28.23E–.06 9–9 3.0
DDA V 06 14 45 50.5 37.24N 28.20E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=8.3km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.6km az=135.6.
ISC V 06 15 01 51.3–1.1 38.62N–.04 28.64E–.06 5–12 20 0-1
ISCJB V 06 15 01 51.8–.71 38.58N–.04 28.62E–.07 8–7 ¶16853282
DDA V 06 15 01 51.9 38.59N 28.60E 7 2.6
CSEM V 06 15 01 52.1–.15 38.58N 28.62E 2 2.6
ISK V 06 15 01 52.5 38.50N 28.63E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.8km az=24.7.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=113.0.
ISC V 06 16 11 38.6–.95 38.46N–.03 31.88E–.03 10–9 45 0-2
ISCJB V 06 16 11 38.4–.52 38.46N–.03 31.87E–.03 4–7 ¶16853283
DDA V 06 16 11 38.6 38.50N 31.88E 7 2.6
CSEM V 06 16 11 38.5–.18 38.45N 31.86E 5 2.6
ISK V 06 16 11 38.0 38.44N 31.88E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=30.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=45.0.
ISC V 06 19 22 49.9–1.2 38.16N–.02 43.85E–.02 3–11 73 1-6
ISK V 06 19 22 48.8 38.16N 43.81E 8 3.2L ¶16596809
NSSP V 06 19 22 49.6 38.23N 43.77E 7 3.1s
CSEM V 06 19 22 49.7–.23 38.13N 43.79E 2 3.2
DDA V 06 19 22 49.5 38.15N 43.87E 7 3.2
TEH V 06 19 22 50.2 38.66N 43.76E 18 3.1L
ISN V 06 19 22 54.0–.80 37.73N 43.73E 0–3 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=88.0.
ISN Error ellipse: s-maj=5.4km s-min=7.3km az=-1.0.
ISC V 07 00 39 07.3–1.0 37.55N–.03 35.58E–.03 14–8 38 0-2
ISCJB V 07 00 39 07.8–.70 37.52N–.05 35.59E–.04 9–6 ¶16853299
CSEM V 07 00 39 07.6–.19 37.54N 35.58E 2 2.7
DDA V 07 00 39 07.3 37.55N 35.58E 8 2.6
ISK V 07 00 39 07.6 37.50N 35.57E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.9km az=1.9.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=173.0.
DDA Event type ke.
ISC V 07 03 21 40.9–1.0 37.20N–.02 28.65E–.02 6–8 177 0-34
DDA V 07 03 21 39.6 37.17N 28.65E 27 3.4L ¶16709074
ATH V 07 03 21 39.7 37.26N 28.64E 11–2 3.0L
IDC V 07 03 21 39.6–1.2 37.08N 28.74E 0 3.4,3.4
ISCJB V 07 03 21 40.6–.41 37.22N–.02 28.64E–.02 2–3 3.2b,2.3s
CSEM V 07 03 21 40.9–.11 37.19N 28.65E 2 3.0L,2.3s
ISK V 07 03 21 40.4 37.18N 28.63E 7 3.1L,2.3s
THE V 07 03 21 41.2 37.17N 28.60E 0–1 3.0L,2.3s
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=89.0.
IDC Error ellipse: s-maj=20.0km s-min=18.2km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=167.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=35.0.
ISK V 07 07 44 05.5 40.72N 30.40E 9 2.6
CSEM V 07 07 44 05.5 40.72N 30.40E 9 2.6 ¶16853310
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 07 14 39 17.5–1.0 37.48N–.03 34.77E–.03 9–8 39 0-2
DDA V 07 14 39 16.9 37.50N 34.79E 7 3.0 ¶16853332
ISK V 07 14 39 16.3 37.47N 34.78E 2 2.8
CSEM V 07 14 39 17.3–.19 37.48N 34.78E 5 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=56.0.
ISC V 07 15 12 48.7–.99 39.64N–.02 38.70E–.03 10–8 44 0-1
ISCJB V 07 15 12 49.5–.45 39.63N–.02 38.72E–.03 5–6 ¶16853335
DDA V 07 15 12 49.2 39.62N 38.74E 7 2.9
CSEM V 07 15 12 49.4–.18 39.63N 38.69E 5 2.6
ISK V 07 15 12 49.1 39.62N 38.68E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=137.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=68.0.
ISC V 07 17 16 11.5–.85 37.53N–.03 36.48E–.02 11–6 55 0-3
ISK V 07 17 16 10.4 37.51N 36.47E 8 2.9 ¶16853338
ISCJB V 07 17 16 11.4–.50 37.54N–.03 36.48E–.03 7–4 2.9
DDA V 07 17 16 11.3 37.52N 36.50E 9 2.9
CSEM V 07 17 16 11.5–.22 37.56N 36.46E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=8.2.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.7km az=167.0.
ISK V 07 17 44 25.1 39.69N 39.77E 5 2.7
CSEM V 07 17 44 25.1 39.69N 39.77E 5 2.7 ¶16853340
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISK V 07 17 46 27.3 40.79N 28.01E 3 2.8
CSEM V 07 17 46 27.3 40.79N 28.01E 3 2.8 ¶16853341
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA V 07 20 48 15.4 38.50N 27.37E 5 1.8
¶602861546
DDA V 07 23 28 26.7 40.58N 27.49E 7 2.7
¶602861549
DDA V 07 23 31 34.8 37.29N 27.99E 7 2.5
¶602861550
ISC V 08 05 48 32.5–1.7 36.52N–.06 30.05E–.06 18–9 12 0-2
ISK V 08 05 48 34.0 37.04N 29.75E 5 2.4 ¶16853351
DDA V 08 05 48 35.6 36.66N 29.96E 7 2.6
ISC Event type ke.
ISC V 08 06 02 34.4–.90 40.20N–.02 27.73E–.02 11–7 60 0-2
ISK V 08 06 02 33.7 40.20N 27.73E 7 2.7 ¶16853352
ISCJB V 08 06 02 34.1–.39 40.21N–.03 27.75E–.03 3–5 2.7
CSEM V 08 06 02 34.5–.10 40.22N 27.74E 8 2.7
DDA V 08 06 02 34.7 40.21N 27.69E 5 2.7
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=20.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=31.0.
ISC V 08 06 05 48.6–1.1 39.31N–.03 40.35E–.03 13–9 26 0-1
ISCJB V 08 06 05 48.6–.64 39.34N–.04 40.33E–.04 2–12 ¶16853353
ISK V 08 06 05 48.1 39.33N 40.32E 8 2.6
CSEM V 08 06 05 48.9–.24 39.30N 40.35E 10 2.6
DDA V 08 06 05 49.3 39.33N 40.34E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=19.3.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=146.0.
ISC V 08 06 24 23.0–1.0 39.10N–.03 42.32E–.04 15–7 38 0-2
DDA V 08 06 24 20.6 39.04N 42.46E 7 2.8 ¶16853355
ISK V 08 06 24 21.7 39.04N 42.23E 2 2.9
CSEM V 08 06 24 22.2–.31 39.12N 42.33E 5 2.8
ISCJB V 08 06 24 23.1–.73 39.09N–.04 42.36E–.05 15–7 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 08 06 57 15.7–.93 39.12N–.02 29.12E–.03 16–8 46 0-2
ISK V 08 06 57 15.4 39.11N 29.13E 4 2.8
ISCJB V 08 06 57 16.1–.46 39.10N–.03 29.09E–.04 7–5 2.8 ¶16853358
DDA V 08 06 57 16.2 39.12N 29.10E 7 2.7
CSEM V 08 06 57 16.4–.13 39.10N 29.11E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=32.5.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=108.0.
ISC V 08 08 53 15.7–1.1 37.26N–.02 28.17E–.02 4–10 49 0-2
DDA V 08 08 53 14.6 37.24N 28.12E 7 2.6 ¶16853373
CSEM V 08 08 53 15.7–.18 37.25N 28.19E 2 2.8
ISK V 08 08 53 15.5 37.22N 28.20E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=45.0.
ISC V 08 09 11 31.1–1.6 37.35N–.04 31.89E–.03 1–13 34 1-2
DDA V 08 09 11 28.3 37.20N 31.87E 9 2.9 ¶16853374
ISK V 08 09 11 31.3 37.39N 31.88E 3 2.8
CSEM V 08 09 11 32.3–.28 37.41N 31.87E 8 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.1km az=162.0.
ISC V 08 09 18 49.6–.90 37.35N–.02 28.13E–.02 12–8 48 0-2
DDA V 08 09 18 48.8 37.36N 28.14E 7 2.7 ¶16853375
ISCJB V 08 09 18 49.5–.46 37.33N–.03 28.12E–.03 13–4 2.7
CSEM V 08 09 18 49.7–.15 37.35N 28.13E 10 2.7
ISK V 08 09 18 49.6 37.32N 28.11E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=140.7.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=29.0.
ISC V 08 09 52 26.0–1.1 37.22N–.05 28.18E–.05 14–10 13 0-1
ISK V 08 09 52 26.2 37.21N 28.17E 6 2.5 ¶16853378
CSEM V 08 09 52 26.2 37.21N 28.17E 6 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 08 12 41 37.5–.96 37.90N–.03 27.42E–.03 10 26 0-2
ISCJB V 08 12 41 37.2–.59 37.90N–.04 27.43E–.04 10 ¶16853387
CSEM V 08 12 41 37.3–.08 37.90N 27.42E 8 2.7
ISK V 08 12 41 37.0 37.91N 27.43E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=178.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=46.0.
ISC V 08 14 54 09.2–1.4 37.27N–.04 31.94E–.03 1–12 32 1-2
DDA V 08 14 54 07.2 37.24N 31.77E 7 3.1 ¶16853392
ISK V 08 14 54 09.8 37.36N 31.88E 5 2.8
CSEM V 08 14 54 09.0–.37 37.22N 31.96E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.2km az=168.0.
ISC V 08 15 00 58.0–.88 39.50N–.02 26.32E–.03 13–7 56 0-2
ISCJB V 08 15 00 58.0–.49 39.49N–.02 26.32E–.04 3–5 ¶16853393
ISK V 08 15 00 57.3 39.52N 26.37E 2 2.7
DDA V 08 15 00 58.6 39.52N 26.33E 7 2.8
CSEM V 08 15 00 58.1–.19 39.48N 26.32E 10 1.5L
ATH V 08 15 00 58.2 39.48N 26.32E 13–7 1.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.9km az=93.0.
ATH Event type ke. Error ellipse: s-maj=7.6km s-min=1.0km az=168.0.
ISC V 08 15 42 03.8–1.2 40.69N–.04 41.26E–.04 7–16 22 0-1
CSEM V 08 15 42 04.5 40.82N 41.23E 7 2.6 ¶16853397
DDA V 08 15 42 04.5 40.82N 41.23E 7 2.6
ISK V 08 15 42 08.4 39.95N 40.75E 5 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 08 16 11 59.5–1.3 40.7N–.20 41.1E–.10 7 13 1-2
DDA V 08 16 11 58.8 40.54N 41.30E 7 2.7 ¶601584288
ISCJB V 08 16 11 59.4–.95 40.8N–.40 41.1E–.30 7 2.7
CSEM V 08 16 11 59.9–.32 40.74N 41.14E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=68.8km s-min=5.5km az=153.8.
CSEM Event type ke. Error ellipse: s-maj=48.6km s-min=5.3km az=153.0.
ISC V 09 00 21 03.7–1.3 38.89N–.03 27.94E–.03 4–15 26 0-2
CSEM V 09 00 21 03.5–.18 38.87N 27.93E 2 2.6 ¶601584294
DDA V 09 00 21 03.8 38.91N 27.92E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=4.0km az=23.0.
ISC V 09 02 12 57.5–.95 40.44N–.02 26.23E–.02 14–9 50 0-2
ISCJB V 09 02 12 57.6–.49 40.43N–.03 26.23E–.04 7–6 ¶16882043
ATH V 09 02 12 57.4 40.47N 26.18E 31–3 2.2L
CSEM V 09 02 12 57.6–.12 40.43N 26.23E 10 2.2L
THE V 09 02 12 57.9 40.40N 26.19E 7–6 2.2L
DDA V 09 02 12 58.2 40.40N 26.30E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=10.8.
ATH Event type ke. Error ellipse: s-maj=4.5km s-min=0.9km az=337.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=79.0.
THE Event type ke. Error ellipse: s-maj=6.3km s-min=0.3km az=26.0.
ISC V 09 03 01 24.0–.82 40.87N–.02 29.29E–.01 11–6 233 0-21
DDA V 09 03 01 22.8 40.86N 29.31E 16 3.6L ¶16709225
ISCJB V 09 03 01 23.2–.30 40.90N–.01 29.29E–.02 8–2 3.6L
CSEM V 09 03 01 23.9–.07 40.86N 29.29E 5 3.6L
ISK V 09 03 01 23.2 40.85N 29.29E 5 3.4L
IDC V 09 03 01 24.0–2.1 41.00N 29.59E 0 3.3,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=9.3.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=27.0.
IDC Error ellipse: s-maj=44.7km s-min=8.8km az=45.0.
ISC V 09 03 19 10.2–.93 40.48N–.03 30.74E–.02 8–8 33 0-1
ISCJB V 09 03 19 10.0–.50 40.49N–.05 30.72E–.04 9–8 ¶16853411
ISK V 09 03 19 09.8 40.41N 30.74E 6 2.6
DDA V 09 03 19 09.8 40.50N 30.72E 7 2.4
CSEM V 09 03 19 10.0–.17 40.48N 30.74E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.9km az=159.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=178.0.
ISC V 09 09 40 53.6–1.1 37.19N–.03 35.69E–.02 14–12 35 0-1
ISCJB V 09 09 40 54.0–.48 37.20N–.03 35.70E–.04 14–4 ¶16853418
ISK V 09 09 40 53.1 37.25N 35.71E 12 2.5
CSEM V 09 09 40 53.7–.12 37.22N 35.70E 15 2.5
DDA V 09 09 40 53.7 37.14N 35.67E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.3km az=26.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=10.0.
DDA Event type ke.
ISC V 09 19 14 37.5–1.0 39.90N–.02 40.00E–.02 5–9 87 0-3
DDA V 09 19 14 36.7 39.92N 40.01E 5 3.0 ¶601584328
ISK V 09 19 14 36.9 39.92N 40.03E 5 3.0
CSEM V 09 19 14 37.6–.18 39.89N 39.99E 2 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=163.0.
ISC V 09 23 08 20.0–1.0 40.81N–.02 28.00E–.01 6–9 123 0-2
ISK V 09 23 08 19.8 40.81N 28.00E 8 2.9 ¶16853436
DDA V 09 23 08 19.9 40.80N 27.97E 3 2.9
CSEM V 09 23 08 20.1–.11 40.83N 28.00E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=162.0.
ISC V 10 01 05 34.9–1.2 39.48N–.03 26.38E–.03 10–10 44 0-2
ISK V 10 01 05 34.3 39.47N 26.41E 6 2.7 ¶16853443
ISCJB V 10 01 05 35.9–.67 39.53N–.04 26.40E–.06 5–6 2.7
CSEM V 10 01 05 35.4–.21 39.49N 26.35E 10 2.6
DDA V 10 01 05 36.1 39.57N 26.49E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.6km az=147.7.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=88.0.
DDA Event type ke.
ISC V 10 02 46 16.2–.87 40.71N–.03 30.66E–.02 17–6 36 0-1
ISCJB V 10 02 46 16.7–.52 40.73N–.03 30.67E–.03 12–4 ¶16853445
DDA V 10 02 46 16.2 40.70N 30.65E 7 2.6
CSEM V 10 02 46 16.3–.13 40.73N 30.68E 15 2.6
ISK V 10 02 46 16.0 40.71N 30.65E 19 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=7.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=21.0.
DDA V 10 09 27 26.1 39.67N 29.46E 13 2.6
CSEM V 10 09 27 26.1 39.67N 29.46E 13 2.6 ¶601584343
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 10 09 27 46.7–1.0 37.28N–.05 28.28E–.05 9–9 21 0-1
CSEM V 10 09 27 45.8 37.30N 28.30E 11 2.6 ¶16853452
ISK V 10 09 27 45.8 37.30N 28.30E 11 2.6
ISCJB V 10 09 27 46.9–.77 37.20N–.04 28.15E–.06 11–15 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 10 10 35 47.0–.89 39.31N–.02 40.84E–.02 14–7 45 0-2
ISK V 10 10 35 46.6 39.32N 40.86E 5 2.6 ¶16853457
DDA V 10 10 35 46.9 39.32N 40.85E 7 2.7
ISCJB V 10 10 35 47.1–.48 39.31N–.03 40.87E–.03 4–5 2.7
CSEM V 10 10 35 47.0–.19 39.31N 40.87E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=42.1.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=152.0.
ISC V 10 10 54 57.1–1.3 40.95N–.05 40.34E–.04 3–13 24 0-2
ISK V 10 10 54 53.7 40.96N 40.65E 19 2.6 ¶16853458
DDA V 10 10 54 57.4 41.00N 40.27E 7 2.7
CSEM V 10 10 54 58.0–.58 40.93N 40.33E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.9km s-min=9.2km az=160.0.
ISC V 10 11 19 32.6–.84 41.03N–.03 35.94E–.02 10–6 46 0-2
ISK V 10 11 19 31.2 41.02N 35.89E 5 2.7 ¶16853459
ISCJB V 10 11 19 32.7–.47 41.01N–.04 35.95E–.04 7–5 2.7
DDA V 10 11 19 32.4 40.99N 35.91E 6 2.6
CSEM V 10 11 19 32.5–.20 41.04N 35.92E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=13.7.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.3km az=3.0.
ISC V 10 11 56 15.6–1.1 37.20N–.06 28.38E–.05 26–6 20 0-1
ISCJB V 10 11 56 15.7–1.1 37.19N–.07 28.36E–.07 26–9 ¶16853461
CSEM V 10 11 56 15.4–.80 37.25N 28.44E 5 2.7
ISK V 10 11 56 16.4 36.96N 28.30E 6 2.7
DDA V 10 11 56 17.9 37.21N 28.16E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=6.3km az=35.3.
CSEM Event type ke. Error ellipse: s-maj=18.3km s-min=10.6km az=36.0.
ISC V 11 04 48 49.9–.94 39.42N–.02 26.99E–.02 13–8 70 0-2
ISCJB V 11 04 48 49.8–.39 39.44N–.02 26.99E–.03 8–4 ¶16853474
ISK V 11 04 48 49.4 39.41N 27.01E 13 2.8
DDA V 11 04 48 49.7 39.46N 26.99E 7 2.7
CSEM V 11 04 48 50.1–.13 39.43N 26.99E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=42.7.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=101.0.
ISC V 11 08 17 07.2–.97 40.28N–.04 40.21E–.02 13–6 39 0-2
DDA V 11 08 17 06.6 40.26N 40.24E 7 3.0L ¶16853478
ISCJB V 11 08 17 07.3–.70 40.26N–.04 40.21E–.04 3–6 3.0L
CSEM V 11 08 17 07.9–.24 40.29N 40.19E 10 3.4
ISK V 11 08 17 07.1 40.29N 40.17E 16 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=166.6.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=15.0.
ISC V 11 11 09 53.4–.90 40.84N–.03 37.84E–.03 14–6 34 0-2
ISK V 11 11 09 51.6 40.85N 37.83E 5 2.7 ¶16853481
ISCJB V 11 11 09 53.9–.60 40.84N–.05 37.80E–.05 12–6 2.7
CSEM V 11 11 09 53.5–.24 40.85N 37.80E 12 2.5
DDA V 11 11 09 54.1 40.85N 37.92E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.4km az=156.2.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=159.0.
ISC V 11 11 17 02.1–.99 37.27N–.04 28.24E–.03 8–8 26 0-1
ISK V 11 11 17 02.2 37.25N 28.24E 5 2.5 ¶16853482
ISCJB V 11 11 17 03.1–.57 37.24N–.04 28.21E–.05 1–10 2.5
CSEM V 11 11 17 03.4–.21 37.24N 28.20E 2 2.5
DDA V 11 11 17 03.2 37.23N 28.18E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.5km az=34.5.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=39.0.
ISC V 11 11 40 53.8–1.2 37.83N–.03 27.32E–.03 1–12 37 0-1
ISCJB V 11 11 40 54.5–.44 37.79N–.03 27.36E–.03 9–7 ¶16853485
DDA V 11 11 40 54.3 37.79N 27.35E 2 2.6
CSEM V 11 11 40 54.9–.24 37.82N 27.40E 12 2.6
ISK V 11 11 40 54.3 37.80N 27.40E 14 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=30.9.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=62.0.
ISC V 11 12 39 55.5–1.0 38.75N–.03 39.18E–.04 16–9 28 0-1
ISK V 11 12 39 53.9 38.78N 39.06E 17 2.5 ¶16853488
CSEM V 11 12 39 55.4–.35 38.80N 39.12E 8 2.5
DDA V 11 12 39 56.1 38.75N 39.19E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.5km az=117.0.
ISC V 11 15 02 27.1–1.2 39.79N–.02 40.57E–.03 2–10 34 0-2
DDA V 11 15 02 26.3 39.76N 40.47E 7 2.7 ¶16853489
ISK V 11 15 02 26.0 39.81N 40.58E 6 2.6
CSEM V 11 15 02 26.6–.27 39.80N 40.51E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.0km az=35.0.
ISC V 11 17 15 57.8–1.1 38.26N–.04 38.84E–.03 11 20 0-1
ISK V 11 17 15 56.5 38.26N 38.88E 5 2.6 ¶16853490
ISCJB V 11 17 15 57.4–.72 38.25N–.05 38.84E–.05 11 2.6
CSEM V 11 17 15 57.4–.19 38.26N 38.84E 2 2.6
DDA V 11 17 15 57.2 38.25N 38.83E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=148.0.
ISC V 11 18 26 27.3–1.3 37.50N–.04 34.78E–.03 14–10 34 0-2
ISCJB V 11 18 26 28.9–.65 37.45N–.04 34.84E–.04 11–5 ¶16853491

ISK V 11 18 26 28.1 37.44N 34.84E 12 2.7
CSEM V 11 18 26 28.9–.28 37.46N 34.84E 12 2.8
DDA V 11 18 26 28.7 37.49N 34.86E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=170.5.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.6km az=18.0.
DDA Event type ke.
DDA V 11 23 12 52.4 38.42N 28.24E 7 2.7
CSEM V 11 23 12 52.4 38.42N 28.24E 7 2.7 ¶601584396
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 12 02 36 48.1–1.3 36.25N–.05 31.17E–.02 2–11 68 1-4
ISCJB V 12 02 36 48.8–.96 36.26N–.06 31.16E–.04 11–7 ¶16853499
DDA V 12 02 36 49.2 36.37N 31.26E 15 3.3
CSEM V 12 02 36 49.3–.34 36.28N 31.17E 10 3.3
ISK V 12 02 36 50.2 36.32N 31.13E 23 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.9km az=8.6.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.1km az=5.0.
ISC V 12 07 05 06.3–.92 38.90N–.02 29.13E–.03 16–9 50 0-2
ISK V 12 07 05 05.8 38.91N 29.10E 13 3.0 ¶16853502
ISCJB V 12 07 05 06.2–.47 38.89N–.03 29.13E–.04 12–4 3.0
CSEM V 12 07 05 06.4–.13 38.89N 29.13E 15 2.7
DDA V 12 07 05 06.8 38.89N 29.14E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=27.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=103.0.
ISC V 12 13 41 27.0–.93 40.27N–.02 29.14E–.02 5–7 66 0-2
DDA V 12 13 41 26.8 40.28N 29.16E 5 2.5 ¶16853509
ISK V 12 13 41 26.4 40.27N 29.14E 12 2.5
CSEM V 12 13 41 27.1–.12 40.28N 29.13E 5 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=139.0.
ISC V 12 14 13 35.0–1.1 38.46N–.03 39.65E–.03 14–11 28 0-2
DDA V 12 14 13 34.8 38.47N 39.67E 16 2.9 ¶16853511
CSEM V 12 14 13 34.8–.45 38.45N 39.67E 0–6 2.8
ISK V 12 14 13 35.3 38.47N 39.61E 15 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=7.2km az=51.0.
DDA V 12 15 39 21.0 40.68N 40.53E 7 2.5
¶602861667
DDA V 12 15 43 06.3 40.74N 41.96E 7 2.4
¶602861668
ISC V 13 02 57 34.1–.98 37.85N–.02 27.95E–.04 6–9 35 0-1
ISCJB V 13 02 57 33.9–.47 37.86N–.02 27.95E–.06 2–10 ¶16853515
ISK V 13 02 57 33.4 37.85N 27.95E 6 2.5
DDA V 13 02 57 33.9 37.84N 27.88E 7 2.4
CSEM V 13 02 57 34.0–.17 37.85N 27.90E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.6km az=11.1.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=99.0.
ISC V 13 06 24 29.6–1.1 36.92N–.02 29.35E–.02 3–10 58 0-2
ISK V 13 06 24 28.8 36.91N 29.36E 6 2.9L ¶16853517
CSEM V 13 06 24 29.6–.14 36.92N 29.36E 5 2.9L
DDA V 13 06 24 29.7 36.94N 29.31E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=158.0.
ISC V 13 08 53 48.7–.88 37.17N–.02 35.24E–.02 26–6 113 0-4
NSSC V 13 08 53 44.2–5.3 37.30N 35.20E 0–49 2.9L ¶16853518
DDA V 13 08 53 46.6 37.15N 35.29E 46 3.3
ISK V 13 08 53 47.9 37.14N 35.18E 28 3.1L
ISCJB V 13 08 53 48.4–.32 37.18N–.02 35.23E–.02 31–3 3.1L
CSEM V 13 08 53 48.5–.19 37.17N 35.22E 24–2 3.1L
ISC Event type ke.
NSSC Error ellipse: s-maj=62.7km s-min=49.8km az=-1.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=25.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=39.0.
ISC V 13 09 11 32.4–1.2 40.6N–.10 26.59E–.04 24–10 20 0-1
ISCJB V 13 09 11 33.5–1.2 40.62N–.09 26.54E–.04 14–7 ¶601078172
DDA V 13 09 11 33.4 40.63N 26.50E 7 2.8
CSEM V 13 09 11 33.3–.28 40.62N 26.54E 10 1.7L
THE V 13 09 11 33.5 40.63N 26.53E 19–3 1.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=5.4km az=174.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=3.7km az=177.0.
THE Event type ke. Error ellipse: s-maj=3.4km s-min=1.2km az=350.0.
ISC V 13 12 52 13.2–.94 39.14N–.01 29.07E–.01 9–8 255 0-7
ISCJB V 13 12 52 12.6–.40 39.14N–.01 29.07E–.02 2–3 ¶16853522
DDA V 13 12 52 12.8 39.11N 29.06E 7 3.7L
ISK V 13 12 52 12.6 39.14N 29.06E 6 3.5L
THE V 13 12 52 12.9 39.10N 29.11E 2–2 3.5L
CSEM V 13 12 52 12.9–.07 39.14N 29.06E 2 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=35.1.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=1.0km az=273.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=101.0.
ISC V 13 13 09 22.8–1.1 39.14N–.02 29.02E–.03 9–10 55 0-2
ISCJB V 13 13 09 23.0–.42 39.13N–.02 29.06E–.04 9–4 ¶16853523
ISK V 13 13 09 22.3 39.14N 29.05E 8 2.7
DDA V 13 13 09 23.3 39.11N 29.06E 7 2.7
CSEM V 13 13 09 23.0–.06 39.14N 29.06E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=9.9.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=93.0.
ISC V 13 14 45 06.3–1.0 37.25N–.03 28.21E–.03 4–10 36 0-2
ISK V 13 14 45 05.6 37.23N 28.21E 6 2.7 ¶16853525
DDA V 13 14 45 06.2 37.24N 28.18E 7 2.8
CSEM V 13 14 45 06.3–.16 37.24N 28.20E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=32.0.
ISC V 13 14 48 29.7–1.4 39.46N–.03 37.12E–.03 4–12 33 0-2
ISK V 13 14 48 29.4 39.41N 37.21E 3 2.8 ¶16853526
ISCJB V 13 14 48 30.3–.55 39.43N–.04 37.24E–.04 3–9 2.8
CSEM V 13 14 48 30.2–.16 39.40N 37.19E 5 2.8
DDA V 13 14 48 30.6 39.43N 37.20E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.6km az=6.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=52.0.
ISC V 13 14 54 34.0–1.1 40.83N–.06 40.24E–.05 13 14 0-2
ISCJB V 13 14 54 34.5–.88 40.79N–.07 40.22E–.07 13 ¶16853527
ISK V 13 14 54 34.7 40.76N 40.18E 5 2.5
CSEM V 13 14 54 34.7 40.76N 40.18E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.1km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 13 15 31 02.5–.96 37.20N–.04 37.12E–.04 6–7 20 0-1
ISCJB V 13 15 31 02.9–.58 37.16N–.04 37.10E–.04 4–7 ¶601584465
DDA V 13 15 31 02.5 37.16N 37.10E 7 2.5
CSEM V 13 15 31 02.5 37.16N 37.10E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.3km az=17.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 13 16 37 37.9–1.5 39.10N–.04 42.38E–.07 16–9 25 0-2
CSEM V 13 16 37 37.0–3.0 39.29N 42.44E 20–1 2.8 ¶16853529
ISK V 13 16 37 39.8 39.16N 42.12E 12 2.8
DDA V 13 16 37 41.2 39.16N 42.03E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=74.8km s-min=27.1km az=70.0.

ISC V 13 18 45 44.8–1.0 39.58N–.02 26.39E–.02 7–9 132 0-3
DDA V 13 18 45 44.5 39.61N 26.44E 8 2.9 ¶16853532
ISK V 13 18 45 44.8 39.61N 26.38E 6 2.9
ATH V 13 18 45 44.7 39.60N 26.40E 24–2 2.1L
THE V 13 18 45 45.7 39.61N 26.36E 7–1 2.2L
CSEM V 13 18 45 45.1–.09 39.61N 26.39E 5 2.9
ISCJB V 13 18 45 45.1–.40 39.61N–.02 26.40E–.03 6–3 2.9
ISC Event type ke.
ATH Event type ke.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 13 22 13 38.7–1.1 40.79N–.02 31.51E–.01 2–10 127 0-3
ISK V 13 22 13 37.7 40.77N 31.52E 2 3.1 ¶16853536
DDA V 13 22 13 38.4 40.83N 31.51E 8 3.0
CSEM V 13 22 13 38.8–.09 40.79N 31.52E 2 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=173.0.
ISC V 13 22 28 30.0–1.1 40.79N–.02 31.51E–.01 0–8 3.5b 298 0-75
DDA V 13 22 28 29.0 40.82N 31.51E 5 3.7 ¶16709809
IDC V 13 22 28 29.6–.87 40.54N 31.52E 0 3.7,3.5
ISK V 13 22 28 29.1 40.78N 31.53E 5 3.9L,3.5
CSEM V 13 22 28 30.7–.07 40.77N 31.51E 2 3.9L,3.5
ISCJB V 13 22 28 30.3–.44 40.79N–.02 31.47E–.02 6–3 3.4b,3.5
THE V 13 22 28 32.4 40.80N 31.37E 0–0 3.4b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=8.6km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=3.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=177.8.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=0.8km az=67.0.
ISC V 14 02 32 21.7–1.1 39.56N–.02 28.06E–.02 18–9 48 0-2
DDA V 14 02 32 21.6 39.54N 28.04E 7 2.5 ¶601584472
CSEM V 14 02 32 22.0–.12 39.55N 28.10E 10 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=62.0.
ISC V 14 07 11 51.2–.89 39.36N–.02 33.14E–.02 8–7 59 0-2
DDA V 14 07 11 50.8 39.36N 33.17E 7 2.7 ¶16853551
ISCJB V 14 07 11 51.2–.52 39.36N–.02 33.13E–.03 0–6 2.7
ISK V 14 07 11 51.0 39.38N 33.11E 5 2.7
CSEM V 14 07 11 51.3–.12 39.36N 33.13E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=167.7.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=70.0.
ISC V 14 07 54 20.3–2.5 37.38N–.07 41.51E–.10 7–13 29 1-8
ISK V 14 07 54 19.6 37.36N 41.44E 5 2.9 ¶16853552
DDA V 14 07 54 20.5 37.42N 41.46E 17 2.7
CSEM V 14 07 54 21.1–.90 37.40N 41.46E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.4km s-min=9.5km az=123.0.
ISC V 14 10 04 50.5–.92 40.80N–.02 31.53E–.02 16–8 74 0-2
DDA V 14 10 04 50.0 40.80N 31.51E 7 3.0 ¶16853554
CSEM V 14 10 04 50.8–.16 40.80N 31.54E 2 3.0
ISK V 14 10 04 50.2 40.81N 31.53E 2 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=154.0.
ISC V 14 10 51 14.6–.98 40.40N–.02 34.46E–.02 18–4 47 0-2
ISK V 14 10 51 14.0 40.43N 34.48E 5 3.0 ¶16853556
DDA V 14 10 51 14.4 40.40N 34.45E 7 3.0
CSEM V 14 10 51 15.0–.14 40.42N 34.45E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=61.0.
ISC V 14 14 28 37.5–.91 39.89N–.03 40.41E–.02 10–7 38 0-2
DDA V 14 14 28 34.7 40.07N 40.42E 30 2.6 ¶16853558
ISK V 14 14 28 37.9 39.92N 40.45E 6 2.8
CSEM V 14 14 28 37.9–.25 39.87N 40.36E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=23.0.
ISC V 14 17 35 49.8–.69 37.06N–.03 31.19E–.03 125–6 3.7b 257 0-62
ISCJB V 14 17 35 49.0–.20 37.01N–.02 31.14E–.02 128–3 3.6b ¶16516455
ISK V 14 17 35 49.6 37.09N 31.15E 121 3.4L
ATH V 14 17 35 50.9 37.28N 30.74E 17–4 3.3L
IDC V 14 17 35 50.4–1.4 37.09N 31.12E 124–13 3.8,3.5b
CSEM V 14 17 35 50.0–.11 37.06N 31.15E 119–2 3.4L,3.5b
DDA V 14 17 35 51.6 37.13N 31.09E 42 3.8L,3.5b
NSSC V 14 17 35 52.8–1.3 36.85N 31.71E 0–36 2.8L,3.5b
GII V 14 17 35 53.3–.21 36.76N 31.07E 32–0 2.6,3.5b
NIC V 14 17 35 54.0–.30 37.00N 31.49E 36 4.1b,3.7L
HLW V 14 17 35 57.4 36.43N 30.54E 30–20 3.8L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=135.6.
ATH Event type ke. Error ellipse: s-maj=11.9km s-min=1.9km az=117.0.
IDC Error ellipse: s-maj=17.8km s-min=12.6km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=39.0.
NSSC Error ellipse: s-maj=24.1km s-min=60.9km az=-1.0.
GII Event type ke.
ISC V 14 23 48 02.1–.87 36.92N–.03 29.37E–.04 9 24 0-2
ISK V 14 23 48 01.8 36.91N 29.38E 9 2.7 ¶16853570
ISCJB V 14 23 48 02.5–.57 36.93N–.03 29.34E–.06 9 2.7
DDA V 14 23 48 02.7 36.94N 29.31E 11 2.8
CSEM V 14 23 48 02.2–.13 36.91N 29.38E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=28.1.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=125.0.
ISC V 15 00 01 24.8–1.4 37.43N–.03 35.82E–.02 1–13 49 0-7
ISK V 15 00 01 25.3 37.41N 35.86E 7 2.9 ¶16853577
DDA V 15 00 01 25.5 37.51N 35.83E 30 3.0L
CSEM V 15 00 01 26.1–.16 37.40N 35.85E 15 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.9km az=122.0.
DDA V 15 12 24 21.7 38.63N 37.33E 7 2.7
¶602861722
DDA V 15 12 46 14.4 37.23N 28.24E 7 2.7
¶602861723
ISC V 15 14 50 31.7–1.0 37.26N–.02 28.21E–.02 6–11 44 0-2
ISK V 15 14 50 30.6 37.25N 28.14E 5 2.8 ¶16853586
CSEM V 15 14 50 31.6–.20 37.26N 28.21E 2 2.8
DDA V 15 14 50 31.3 37.24N 28.23E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.1km az=28.0.
ISC V 15 18 33 36.1–1.5 37.72N–.05 29.39E–.07 12 26 0-1
ISCJB V 15 18 33 36.9–1.3 37.72N–.05 29.37E–.08 12 ¶16853597
ISK V 15 18 33 36.8 37.75N 29.36E 22 2.6
CSEM V 15 18 33 36.9–.51 37.72N 29.36E 15 2.5
DDA V 15 18 33 39.1 37.81N 29.20E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=6.3km az=36.2.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=5.6km az=122.0.
ISC V 15 18 49 05.8–1.1 37.79N–.03 42.84E–.03 7–12 30 0-3
ISCJB V 15 18 49 05.6–.68 37.78N–.04 42.85E–.05 2–9 ¶16853598
DDA V 15 18 49 05.2 37.79N 42.82E 7 3.0
ISK V 15 18 49 05.7 37.75N 42.84E 9 2.8
CSEM V 15 18 49 05.9–.28 37.78N 42.85E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.2km az=42.8.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.3km az=137.0.
ISC V 15 19 11 29.7–.87 39.45N–.01 26.06E–.02 11–7 92 0-2
DDA V 15 19 11 28.9 39.45N 26.10E 19 2.9 ¶16853599
ATH V 15 19 11 29.1 39.45N 26.08E 17–4 1.6L
THE V 15 19 11 29.5 39.45N 26.07E 12–1 1.8L

ISK V 15 19 11 29.6 39.47N 26.09E 8 3.0
CSEM V 15 19 11 29.7–.12 39.44N 26.07E 10 1.6L
ISCJB V 15 19 11 29.5–.48 39.46N–.02 26.07E–.04 6–4 1.6L
ISC Event type ke.
ATH Event type ke.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 15 19 21 25.1–1.2 37.47N–.05 35.43E–.04 13–7 23 0-1
ISCJB V 15 19 21 25.5–.95 37.43N–.06 35.44E–.05 10–6 ¶16853600
CSEM V 15 19 21 25.9–.33 37.42N 35.42E 15 2.6
ISK V 15 19 21 25.7 37.39N 35.41E 14 2.6
DDA V 15 19 21 25.4 37.43N 35.42E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=6.2km az=18.3.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=4.2km az=24.0.
ISC V 15 19 45 06.4–.94 37.79N–.03 29.20E–.03 15–6 32 0-1
DDA V 15 19 45 06.9 37.80N 29.19E 7 2.6 ¶16853602
CSEM V 15 19 45 06.7–.24 37.77N 29.20E 10 2.7
ISCJB V 15 19 45 07.3–.63 37.80N–.03 29.15E–.05 7–7 2.7
ISK V 15 19 45 08.4 37.78N 29.02E 13 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=10.1.
ISC V 15 20 39 32.9–.85 37.16N–.02 28.47E–.01 9–6 172 0-4
DDA V 15 20 39 32.3 37.16N 28.46E 23 3.4L ¶16853605
ISCJB V 15 20 39 32.7–.38 37.16N–.02 28.45E–.02 4–3 3.4L
ISK V 15 20 39 32.5 37.16N 28.48E 6 3.1L
CSEM V 15 20 39 32.7–.07 37.15N 28.47E 2 3.1L
ATH V 15 20 39 32.4 37.15N 28.47E 22–1 3.0L
THE V 15 20 39 33.1 37.09N 28.49E 2–2 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=8.1.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=9.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=184.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=38.0.
ISC V 15 22 00 45.3–1.2 36.09N–.03 35.69E–.02 3–11 69 0-3
DDA V 15 22 00 45.5 36.07N 35.66E 26 3.0 ¶16853606
ISK V 15 22 00 46.7 36.12N 35.69E 18 3.1
ISCJB V 15 22 00 47.1–.64 36.12N–.03 35.69E–.03 11–4 3.1
CSEM V 15 22 00 47.2–.21 36.14N 35.68E 10 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=179.2.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=10.0.
ISC V 16 02 49 18.0–1.2 36.77N–.03 30.70E–.02 100–6 159 0-9
HLW V 16 02 49 16.8 36.81N 30.72E 33–31 3.3L ¶16853619
ISCJB V 16 02 49 17.5–.34 36.77N–.03 30.66E–.03 110–5 3.3L
ISK V 16 02 49 18.7 36.84N 30.70E 85 3.3
CSEM V 16 02 49 18.8–.15 36.77N 30.69E 94–3 3.3
THE V 16 02 49 21.0 36.85N 30.70E 91–2 2.8L
NSSC V 16 02 49 27.5–1.2 36.13N 32.46E 292–64 2.4L
DDA V 16 02 49 52.8 36.86N 30.63E 102 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=176.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=2.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.7km az=18.0.
NSSC Error ellipse: s-maj=18.3km s-min=62.6km az=-1.0.
ISC V 16 03 18 30.4–.93 38.47N–.04 39.21E–.03 10–7 24 0-1
ISK V 16 03 18 29.8 38.48N 39.22E 4 2.6 ¶16853621
ISCJB V 16 03 18 30.2–.60 38.46N–.05 39.21E–.04 5–7 2.6
DDA V 16 03 18 30.3 38.47N 39.15E 7 2.2
CSEM V 16 03 18 30.1–.25 38.47N 39.20E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.3km az=12.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.2km az=55.0.
ISC V 16 14 45 31.4–1.1 37.22N–.02 28.14E–.02 6–10 49 0-2
ISK V 16 14 45 30.7 37.20N 28.15E 5 2.6 ¶16853624
DDA V 16 14 45 31.1 37.23N 28.18E 7 2.6
CSEM V 16 14 45 31.7–.16 37.23N 28.18E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=14.0.
ISC V 17 08 18 44.3–1.3 39.09N–.03 27.52E–.03 10–11 37 0-2
ISK V 17 08 18 43.2 39.05N 27.45E 5 2.4L ¶16853635
ISCJB V 17 08 18 44.7–.82 39.10N–.03 27.53E–.04 6–6 2.4L
DDA V 17 08 18 44.4 39.10N 27.52E 7 2.7
CSEM V 17 08 18 44.5–.30 39.06N 27.50E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.6km az=25.9.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=62.0.
ISC V 17 08 59 07.8–.94 39.98N–.02 31.43E–.03 6–8 75 0-3
DDA V 17 08 59 07.2 39.97N 31.47E 11 2.9L ¶16853637
CSEM V 17 08 59 08.0–.19 40.00N 31.46E 2 2.9L
ISK V 17 08 59 08.0 40.04N 31.47E 4 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=58.0.
ISC V 17 09 28 44.7–1.0 37.18N–.05 28.21E–.04 12–7 20 0-1
DDA V 17 09 28 44.6 37.19N 28.19E 7 2.6 ¶16853640
ISCJB V 17 09 28 45.1–.72 37.18N–.04 28.22E–.06 15–7 2.6
CSEM V 17 09 28 45.3–.46 37.16N 28.22E 5 2.4
ISK V 17 09 28 45.1 37.15N 28.19E 4 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.7km az=149.8.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=7.9km az=121.0.
ISC V 17 10 32 06.4–1.1 39.72N–.03 30.81E–.02 2–10 42 0-2
ISK V 17 10 32 05.8 39.64N 30.85E 14 2.6 ¶16853642
CSEM V 17 10 32 06.9–.32 39.70N 30.82E 10 2.6
DDA V 17 10 32 07.3 39.74N 30.75E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=7.1km az=148.0.
ISC V 17 14 58 22.6–1.0 40.71N–.02 29.23E–.02 5–9 90 0-2
ISK V 17 14 58 21.8 40.71N 29.22E 6 2.8 ¶16853650
ISCJB V 17 14 58 22.0–.39 40.72N–.02 29.22E–.03 0–4 2.8
DDA V 17 14 58 22.1 40.70N 29.24E 11 2.5
CSEM V 17 14 58 22.4–.11 40.72N 29.22E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=43.8.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=177.0.
ISC V 17 15 04 09.7–.91 41.38N–.03 35.87E–.02 15–8 73 0-3
DDA V 17 15 04 08.6 41.40N 35.85E 22 2.6 ¶16853651
ISK V 17 15 04 08.6 41.37N 35.87E 4 2.8
CSEM V 17 15 04 09.6–.18 41.37N 35.86E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.8km az=30.0.
ISC V 17 18 39 15.0–1.1 40.95N–.02 32.63E–.02 4–10 92 0-2
CSEM V 17 18 39 15.6–.14 40.97N 32.64E 2 3.1 ¶16853653
ISK V 17 18 39 15.2 40.95N 32.63E 6 3.1
DDA V 17 18 39 15.0 40.94N 32.65E 12 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=177.0.
ISC V 18 00 01 24.2–1.1 37.56N–.02 36.11E–.02 3–10 104 1-4
DDA V 18 00 01 23.8 37.54N 36.13E 18 3.5L ¶16853662
ISK V 18 00 01 24.4 37.56N 36.08E 10 3.0
CSEM V 18 00 01 25.4–.18 37.54N 36.07E 10 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=144.0.
ISC V 18 02 18 56.8–.88 37.43N–.03 38.78E–.02 7–6 55 0-2
ISCJB V 18 02 18 57.4–.54 37.45N–.03 38.78E–.03 5–4 ¶16853664
CSEM V 18 02 18 57.4–.26 37.43N 38.79E 2 2.9
ISK V 18 02 18 57.4 37.44N 38.89E 5 2.9
DDA V 18 02 18 57.0 37.47N 38.73E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.1km az=161.5.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=148.0.
ISC V 18 07 06 05.2–.99 39.93N–.02 39.57E–.02 10–9 45 0-1
ISCJB V 18 07 06 05.6–.47 39.94N–.02 39.61E–.04 10–5 ¶16853666
DDA V 18 07 06 05.4 39.91N 39.57E 7 2.7
ISK V 18 07 06 05.2 39.95N 39.60E 5 2.7L
CSEM V 18 07 06 05.5–.18 39.93N 39.61E 12 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.8km az=177.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=94.0.
ISC V 18 09 12 03.5–.98 37.07N–.03 38.85E–.02 12–8 48 0-2
ISCJB V 18 09 12 03.4–.71 37.07N–.03 38.86E–.03 6–5 ¶16853668
ISK V 18 09 12 03.6 37.11N 38.82E 13 3.1
CSEM V 18 09 12 03.5–.16 37.06N 38.86E 8 2.8
DDA V 18 09 12 04.1 37.07N 38.78E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=25.3.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=47.0.
ISC V 18 10 53 22.2–.81 39.81N–.02 26.26E–.02 8–5 85 0-2
DDA V 18 10 53 22.3 39.82N 26.30E 8 2.9 ¶16853669
ISCJB V 18 10 53 22.4–.40 39.84N–.02 26.27E–.03 2–4 2.9
CSEM V 18 10 53 22.7–.14 39.84N 26.25E 5 2.4L
ATH V 18 10 53 22.2 39.82N 26.24E 24–1 1.9L
THE V 18 10 53 22.9 39.82N 26.26E 1–1 2.1L
ISK V 18 10 53 22.3 39.84N 26.32E 5 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=103.0.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=264.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=48.0.
ISC V 18 11 04 58.6–.86 37.43N–.03 28.07E–.03 11 28 0-1
ISK V 18 11 04 57.9 37.43N 28.07E 4 2.4 ¶16853671
ISCJB V 18 11 04 58.5–.52 37.41N–.03 28.06E–.05 11 2.4
DDA V 18 11 04 58.2 37.43N 28.09E 7 2.7
CSEM V 18 11 04 58.4–.13 37.44N 28.08E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=162.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=64.0.
ISC V 18 11 08 45.2–.95 37.01N–.03 35.25E–.02 15–8 43 0-2
DDA V 18 11 08 44.8 36.96N 35.29E 7 2.8 ¶16853673
ISCJB V 18 11 08 45.8–.41 37.03N–.03 35.25E–.03 25–5 2.8
CSEM V 18 11 08 45.5–.21 37.02N 35.26E 19–0 2.3L
ISK V 18 11 08 45.0 37.03N 35.23E 20 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=29.0.
ISC V 18 12 02 31.9–1.4 41.01N–.04 31.21E–.03 14–12 32 0-1
ISK V 18 12 02 31.9 41.00N 31.16E 14 2.3L ¶16853675
ISCJB V 18 12 02 32.6–.65 40.98N–.05 31.20E–.04 15–6 2.3L
CSEM V 18 12 02 32.3–.10 40.99N 31.20E 15 2.6
DDA V 18 12 02 32.1 41.04N 31.21E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.0km az=166.7.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=153.0.
ISC V 18 13 22 00.7–1.2 39.97N–.03 32.24E–.02 5–11 43 1-2
ISCJB V 18 13 22 00.7–.72 40.03N–.04 32.17E–.04 4–7 ¶16853676
DDA V 18 13 22 00.3 39.96N 32.27E 7 2.8
ISK V 18 13 22 00.9 40.02N 32.16E 11 2.5L
CSEM V 18 13 22 00.4–.18 39.99N 32.21E 2 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=33.8.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=178.0.
ISC V 18 17 24 51.0–.87 39.78N–.03 39.50E–.03 12–7 48 0-2
DDA V 18 17 24 50.6 39.76N 39.48E 7 2.9 ¶16853683
ISK V 18 17 24 50.2 39.81N 39.55E 5 3.1
ISCJB V 18 17 24 51.3–.42 39.81N–.03 39.54E–.04 9–5 3.1
CSEM V 18 17 24 51.2–.27 39.82N 39.52E 2 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=175.9.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.9km az=150.0.
ISC V 18 18 11 45.8–.83 40.70N–.02 29.22E–.02 15–6 83 0-2
ISCJB V 18 18 11 45.8–.35 40.70N–.02 29.21E–.02 3–4 ¶16853684
ISK V 18 18 11 45.5 40.72N 29.25E 15 2.7
DDA V 18 18 11 45.8 40.69N 29.22E 6 2.9L
CSEM V 18 18 11 46.1–.11 40.71N 29.21E 10 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=18.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=17.0.
DDA V 19 00 00 30.1 37.96N 27.01E 7 2.2
¶602861818
ISC V 19 06 13 16.3–1.3 40.60N–.03 35.25E–.04 12–11 34 0-2
ISCJB V 19 06 13 16.7–.65 40.64N–.04 35.21E–.07 0–10 ¶16853693
ISK V 19 06 13 16.5 40.62N 35.17E 9 2.5
CSEM V 19 06 13 16.7–.28 40.61N 35.23E 10 2.7
DDA V 19 06 13 17.3 40.63N 35.18E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.4km az=31.6.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=4.2km az=123.0.
ISC V 19 06 27 19.1–1.5 39.93N–.04 38.76E–.04 11–13 24 0-1
ISCJB V 19 06 27 20.0–.57 39.88N–.04 38.86E–.04 13–7 ¶16853694
ISK V 19 06 27 19.1 39.92N 38.80E 10 2.7
CSEM V 19 06 27 20.0–.38 39.88N 38.83E 10 2.6
DDA V 19 06 27 20.2 39.84N 38.83E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=142.8.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=6.6km az=153.0.
ISC V 19 06 53 38.3–.00 37.23N–.04 28.27E–.05 17–8 20 0-1
ISK V 19 06 53 37.4 37.22N 28.25E 23 2.7 ¶16853695
CSEM V 19 06 53 38.1–.15 37.23N 28.28E 20 2.7
DDA V 19 06 53 40.0 37.27N 28.18E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=2.9km az=47.0.
ISC V 19 08 15 25.2–.92 39.92N–.04 37.45E–.03 13–8 31 0-2
ISK V 19 08 15 23.3 39.89N 37.49E 6 2.9 ¶16853697
ISCJB V 19 08 15 25.0–.60 39.94N–.04 37.41E–.05 25–7 2.9
CSEM V 19 08 15 24.6–.25 39.92N 37.44E 15 2.6
DDA V 19 08 15 25.1 40.00N 37.41E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.6km az=159.8.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.4km az=167.0.
ISC V 19 08 20 25.5–1.2 39.51N–.03 29.82E–.03 4–10 36 0-1
DDA V 19 08 19 55.6 37.96N 28.51E 1 2.8L ¶16853698
ISCJB V 19 08 20 26.3–.68 39.46N–.03 29.82E–.04 4–8 2.8L
ISK V 19 08 20 26.0 39.44N 29.73E 16 2.6
CSEM V 19 08 20 26.0 39.44N 29.73E 16 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 08 47 30.9–.96 37.20N–.04 28.17E–.03 16–7 24 0-1
ISK V 19 08 47 30.9 37.16N 28.12E 11 2.8 ¶16853699
DDA V 19 08 47 31.2 37.27N 28.30E 7 2.7
CSEM V 19 08 47 31.3–.12 37.18N 28.14E 12 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=36.0.
ISC V 19 09 23 48.1–1.3 36.40N–.06 29.14E–.03 14–8 34 0-2
ISK V 19 09 23 46.6 36.35N 29.08E 5 2.4 ¶16853700
CSEM V 19 09 23 46.7–.34 36.33N 29.13E 2 2.4
ISCJB V 19 09 23 47.4–.00 36.36N–.05 29.10E–.05 3–7 2.4
DDA V 19 09 23 48.5 36.45N 29.03E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=152.0.

ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=7.0km az=11.8.
ISC V 19 11 30 48.4–1.2 36.45N–.05 29.00E–.03 17–8 37 0-2
ISK V 19 11 30 46.9 36.38N 28.97E 13 2.6 ¶16853702
ISCJB V 19 11 30 47.4–1.1 36.38N–.05 28.95E–.05 7–6 2.6
CSEM V 19 11 30 47.8–.48 36.41N 28.98E 10 2.6
DDA V 19 11 30 48.4 36.48N 28.99E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=19.9.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.5km az=17.0.
DDA V 19 14 22 36.5 37.83N 29.67E 7 2.9
¶602861848
ISC V 19 14 39 14.2–1.5 37.33N–.03 31.71E–.04 5–12 35 1-2
DDA V 19 14 39 14.5 37.27N 31.74E 7 2.7 ¶16853707
ISCJB V 19 14 39 15.7–.79 37.35N–.04 31.87E–.05 7–8 2.7
CSEM V 19 14 39 15.6–.21 37.31N 31.88E 2 2.8
ISK V 19 14 39 17.1 37.46N 31.81E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.6km az=25.9.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=81.0.
DDA V 19 14 53 22.6 38.85N 29.86E 7 2.7
¶602861849
ISC V 19 19 59 47.5–.98 39.12N–.02 29.10E–.02 8–7 3.4b 170 0-40
ISCJB V 19 19 59 46.5–.48 39.14N–.02 29.09E–.02 7–4 3.4b ¶16710322
IDC V 19 19 59 46.4–1.1 39.07N 29.05E 0 3.5,3.5
DDA V 19 19 59 46.7 39.12N 29.09E 3 3.8L,3.5
THE V 19 19 59 47.9 39.09N 29.08E 2–2 3.5L,3.5
CSEM V 19 19 59 47.1–.09 39.12N 29.09E 5 3.8L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=6.2.
IDC Error ellipse: s-maj=17.4km s-min=16.8km az=171.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=125.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=75.0.
DDA V 19 20 00 27.9 39.12N 29.08E 7 2.7
¶601584762
DDA Event type ke.
DDA V 19 20 01 03.3 38.91N 29.11E 7 2.9L
CSEM V 19 20 01 03.3 38.91N 29.11E 7 2.9L ¶602861850
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 20 15 25.1–.36 39.13N–.01 29.07E–.01 12–2 5.8b,5.8s 3029 0-164
GCMT V 19 20 15 22.9–.10 39.08N 29.11E 12–0 5.9W,5.8s ¶602607377
NEIC V 19 20 15 22.9 39.15N 29.10E 7 6.2L,5.9L
DDA V 19 20 15 22.8 39.13N 29.08E 24 5.7L,5.9L
MOS V 19 20 15 22.8–1.1 39.20N 29.09E 9 6.0b,5.8s
BJI V 19 20 15 22.1 39.10N 29.00E 10 6.1s,6.0b
ISCJB V 19 20 15 22.1–.24 39.126N–.01 29.122E–.01 6–1 5.7s,5.7b
SFS V 19 20 15 22.0 39.15N 29.10E 7 5.8L,5.7b
IDC V 19 20 15 22.8–.29 39.13N 29.10E 0 5.5,5.5s
PDA V 19 20 15 23.0 39.15N 29.10E 7 5.9L,5.5s
NEIC V 19 20 15 23.0–.00 39.11N 29.12E 15 5.9L,5.5s
CSEM V 19 20 15 23.4–.04 39.14N 29.13E 2 5.8s,5.8b
ISN V 19 20 15 23.3–.96 39.15N 29.29E 0–90 5.8L,5.8b
THE V 19 20 15 23.8 39.11N 29.12E 1–0 6.1L,5.8b
ISK V 19 20 15 23.0 39.16N 29.10E 8 5.9L,5.8b
PDG V 19 20 15 23.7–.68 39.16N 29.07E 13–1 6.0,5.9L
GII V 19 20 15 25.3–.00 38.77N 28.95E 1 5.2,5.1b
NIC V 19 20 15 26.4–.50 38.92N 28.74E 25 5.3b,5.1L
SOF V 19 20 15 28.3 39.64N 28.93E 2 4.5,5.1L
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s134,c267; s136,c438;Duration: 2s2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.81±.01 $M_{\theta\theta}$0.89±.01; $M_{\phi\phi}$-0.08±.01; $M_{r\theta}$0.03±.01; $M_{\theta\phi}$-0.22±.01; $M_{\phi r}$-0.05±.02; Best double couple: NP1:ϕ_s286.00000°,δ46.00000°,λ-85.00000°. NP2:ϕ_s98.00000°,δ44.00000°,λ-96.00000°. Principal axes: T 0.9390,Plg1.0000°,Azm12.0000° ; N -0.1280,Plg4.0000°,Azm102.0000°; P -0.8110,Plg86.0000°,Azm264.0000° $M_0$0.87500×10^{18}
NEIC Event type fe. Felt [VI] at Simav and [V] at Kutahya and Usak. Felt throughout western Turkey and as far as Adana and Corum. Felt [III] at Burgas and [II] at Plovdiv and Sofia, Bulgaria. Felt at Alexandroupoli, Mitilini, Orestias and Souflion, Greece. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After ISK. Moment Tensor Solution. s24 Moment tensor: Scale 10^{17}Nm; M_{rr}-5.05 $M_{\theta\theta}$6.23 $M_{\phi\phi}$-1.17 $M_{r\theta}$2.07 $M_{\theta\phi}$-2.31 $M_{\phi r}$1.90 Best double couple: NP1:ϕ_s262.00000°,δ58.00000°,λ-122.00000°. NP2:ϕ_s131.00000°,δ44.00000°,λ-50.00000°. Principal axes: T 7.0800,Plg7.0000°,Azm14.0000°; N -0.6200,Plg27.0000°,Azm280.0000° ; P -6.4600,Plg62.0000°,Azm118.0000° $M_0$6.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s37.00000°,δ46.00000°,λ-144.00000°. NP2: ϕ_s280.00000°,δ65.00000°,λ-50.00000°. Principal axes: T Plg11.0000°,Azm342.0000° ; N Plg0.0000°,Azm0.0000°; P Plg52.0000°,Azm238.0000°
DDA Event type ke.
MOS Error ellipse: s-maj=3.7km s-min=2.6km az=103.8.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.2km az=23.5.
SFS Event type ke.
IDC Error ellipse: s-maj=7.5km s-min=7.0km az=171.0.
NEIC Event type se. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}-6.49 $M_{\theta\theta}$5.79 $M_{\phi\phi}$0.70 $M_{r\theta}$-1.73 $M_{\theta\phi}$-1.24 $M_{\phi r}$1.46 Best double couple: NP1:ϕ_s111.00000° ,δ54.00000°,λ-80.00000°. NP2:ϕ_s275.00000°,δ37.00000°,λ-102.00000°. Principal axes: T 6.3900,Plg8.0000°,Azm194.0000°; N 0.5500,Plg7.0000°,Azm285.0000° ; P -6.9500,Plg78.0000°,Azm55.0000° $M_0$6.70000×10^{17}
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=21.0.
ISN Error ellipse: s-maj=30.2km s-min=88.1km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=65.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
GII Event type ke.
ISC V 19 20 17 16.7–1.1 39.13N–.02 29.10E–.02 3–10 96 0-2
DDA V 19 20 17 16.2 39.14N 29.11E 7 3.9 ¶16853713
ISK V 19 20 17 16.5 39.12N 29.16E 2 3.2
CSEM V 19 20 17 17.0–.09 39.11N 29.12E 2 3.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=99.0.
ISC V 19 20 23 03.0–.90 39.12N–.02 29.02E–.02 12–8 96 0-2
DDA V 19 20 23 02.8 39.11N 29.02E 7 3.4L ¶16853714
ISK V 19 20 23 02.8 39.13N 29.03E 5 3.9L
CSEM V 19 20 23 03.8–.11 39.11N 29.03E 2 3.4L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=97.0.
DDA V 19 20 23 52.3 39.09N 29.02E 7 3.0
CSEM V 19 20 23 52.3 39.09N 29.02E 7 3.0 ¶601584765
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 20 25 32.7–.93 39.13N–.01 29.14E–.02 11–6 4.1b 394 0-80
IDC V 19 20 25 30.6–.67 39.00N 29.12E 0 4.2,4.2b ¶16596563
ISN V 19 20 25 30.8–1.0 39.02N 29.14E 0–93 4.6L,4.2b
MOS V 19 20 25 30.9–1.0 39.15N 29.19E 7 4.4b,4.2b
DDA V 19 20 25 32.4 39.14N 29.11E 7 4.6L,4.2b
ISK V 19 20 25 32.0 39.13N 29.09E 5 4.6L,4.2b
NEIC V 19 20 25 32.1 39.12N 29.08E 5 4.6L,4.4L
THE V 19 20 25 33.0 39.13N 29.09E 1–2 4.4L,4.4L
NIC V 19 20 25 33.3–.10 39.00N 28.93E 25 4.4b,3.9L
ISCJB V 19 20 25 33.2–.29 39.12N–.01 29.14E–.02 23–3 4.1b,3.9L
CSEM V 19 20 25 33.1–.09 39.10N 29.12E 10 4.6L,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=12.0km az=40.0.
ISN Error ellipse: s-maj=30.4km s-min=91.0km az=-1.0.
MOS Error ellipse: s-maj=7.0km s-min=4.6km az=83.9.
DDA Event type ke.
NEIC Event type se. After ISK.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=1.4km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=161.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=76.0.
ISC V 19 20 31 45.1–.86 39.06N–.02 29.16E–.02 10–7 76 0-2
ISCJB V 19 20 31 44.9–.43 39.09N–.02 29.14E–.03 3–5 ¶16853717
ISK V 19 20 31 44.8 39.08N 29.21E 5 3.4L
DDA V 19 20 31 44.6 39.11N 29.12E 7 2.3
CSEM V 19 20 31 45.1–.11 39.07N 29.15E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=144.1.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=121.0.
ISC V 19 20 32 32.8–.99 39.13N–.02 29.02E–.02 7–10 64 0-2
ISCJB V 19 20 32 32.3–.47 39.12N–.03 29.01E–.03 3–6 ¶16853720
CSEM V 19 20 32 32.6–.07 39.13N 29.02E 5 2.3
ISK V 19 20 32 32.1 39.13N 29.05E 6 3.3L
DDA V 19 20 32 32.3 39.13N 29.01E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=151.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=120.0.
ISC V 19 20 34 58.9–.94 39.07N–.02 29.07E–.02 12–8 97 0-2
ISK V 19 20 34 58.5 39.04N 29.09E 5 3.8L ¶16853721
DDA V 19 20 34 59.8 39.14N 29.02E 8 2.4
CSEM V 19 20 35 00.1–.13 39.07N 29.06E 2 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=130.0.
ISC V 19 20 36 27.1–1.1 39.12N–.01 29.10E–.01 1–9 3.5b 214 0-39
IDC V 19 20 36 26.5–1.1 39.12N 28.94E 0 3.5,3.5 ¶16710325
DDA V 19 20 36 26.5 39.12N 29.10E 2 2.8,3.5
ISK V 19 20 36 26.3 39.10N 29.19E 5 3.9L,3.5
CSEM V 19 20 36 27.6–.11 39.11N 29.15E 2 2.8,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=18.3km s-min=14.1km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=86.0.
ISC V 19 20 37 54.8–.86 39.12N–.02 28.98E–.02 14–7 110 0-2
DDA V 19 20 37 54.5 39.11N 28.97E 18 2.8 ¶16853722
ISK V 19 20 37 54.7 39.12N 28.97E 4 3.6L
CSEM V 19 20 37 55.3–.09 39.12N 28.98E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=119.0.
DDA V 19 20 39 30.5 39.09N 29.13E 7 2.5
CSEM V 19 20 39 30.5 39.09N 29.13E 7 2.5 ¶601584769
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 20 41 44.9–.86 39.10N–.02 29.08E–.02 15–6 170 0-40
IDC V 19 20 41 40.9–1.4 38.89N 28.94E 0 4.1,4.1s ¶16710328
DDA V 19 20 41 44.4 39.13N 29.08E 12 3.0,4.1s
ISK V 19 20 41 44.5 39.10N 29.13E 5 4.0L,4.1s
CSEM V 19 20 41 46.3–.14 39.07N 29.10E 10 3.0,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=16.2km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.4km az=94.0.
ISC V 19 20 43 31.6–.97 39.13N–.01 29.09E–.01 8–8 170 0-3
ISK V 19 20 43 30.7 39.12N 29.09E 2 4.0L ¶16853723
DDA V 19 20 43 31.0 39.13N 29.09E 9 2.8
CSEM V 19 20 43 31.7–.09 39.12N 29.11E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=78.0.
ISK V 19 20 48 45.2 39.27N 29.25E 6 2.8
CSEM V 19 20 48 45.2 39.27N 29.25E 6 2.8 ¶16853725
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 20 49 39.9–1.1 39.12N–.02 29.10E–.01 3–10 138 0-9
DDA V 19 20 49 40.0 39.12N 29.06E 5 2.9 ¶16853728
CSEM V 19 20 49 40.2–.14 39.10N 29.11E 2 2.9
THE V 19 20 49 42.2 38.95N 29.08E 0–2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=110.0.
THE Event type ke. Error ellipse: s-maj=4.1km s-min=1.5km az=67.0.
ISC V 19 20 51 22.1–1.1 39.11N–.02 29.03E–.02 1–14 72 0-2
ISCJB V 19 20 51 21.8–.46 39.09N–.03 29.04E–.03 3–6 ¶16853729
DDA V 19 20 51 21.7 39.08N 29.04E 7 2.2
ISK V 19 20 51 21.6 39.09N 29.10E 4 3.1L
CSEM V 19 20 51 22.2–.10 39.11N 29.06E 2 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=154.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=99.0.
ISC V 19 20 51 57.5–.95 39.10N–.02 29.08E–.02 11–10 58 0-2
ISCJB V 19 20 51 57.5–.47 39.11N–.03 29.05E–.03 7–5 ¶16853732
DDA V 19 20 51 57.4 39.13N 29.03E 7 2.1
ISK V 19 20 51 57.2 39.11N 29.10E 10 3.2L
CSEM V 19 20 51 57.8–.09 39.12N 29.05E 8 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=44.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=115.0.
ISK V 19 20 52 24.8 39.13N 29.14E 6 3.1L
CSEM V 19 20 52 24.8 39.13N 29.14E 6 3.1L ¶16853735
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 20 57 28.2–1.1 39.13N–.02 29.08E–.02 1–10 101 0-39
DDA V 19 20 57 28.2 39.13N 29.11E 4 2.7 ¶17203994
CSEM V 19 20 57 29.0–.15 39.13N 29.09E 2 2.7
IDC V 19 20 57 29.0–1.2 39.13N 28.81E 0 3.2,3.2b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=84.0.
IDC Error ellipse: s-maj=22.1km s-min=15.1km az=167.0.
ISC V 19 20 59 48.2–1.2 39.13N–.02 29.09E–.03 0–14 66 0-2
ISK V 19 20 59 47.1 39.12N 29.10E 5 3.3L ¶16853736
DDA V 19 20 59 48.0 39.12N 29.05E 7 3.9L
CSEM V 19 20 59 48.4–.09 39.12N 29.08E 2 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=96.0.
ISC V 19 21 01 01.9–.96 39.07N–.03 29.04E–.02 10–9 42 0-2
ISCJB V 19 21 01 02.0–.52 39.07N–.03 29.03E–.03 4–5 ¶16853737
ISK V 19 21 01 01.9 39.13N 28.98E 5 2.6
DDA V 19 21 01 01.5 39.09N 29.03E 7 3.2L
CSEM V 19 21 01 02.2–.22 39.09N 29.03E 2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=152.4.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=145.0.
DDA V 19 21 01 32.8 39.10N 29.09E 7 3.5L
¶601584771
ISC V 19 21 01 59.8–.96 39.10N–.02 29.05E–.02 9–8 83 0-8
ISCJB V 19 21 01 59.2–.45 39.11N–.02 29.03E–.03 4–5 ¶602861852
DDA V 19 21 01 59.5 39.08N 29.07E 7 3.7L
CSEM V 19 21 01 59.8–.11 39.10N 29.02E 5 3.7L
ISK V 19 21 01 59.4 39.11N 28.97E 7 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.7km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=104.0.
ISC V 19 21 05 12.8–1.0 39.10N–.02 29.01E–.02 6–10 76 0-2
ISCJB V 19 21 05 12.4–.46 39.11N–.03 29.00E–.03 2–6 ¶16853741
DDA V 19 21 05 12.1 39.11N 29.00E 7 3.9L
ISK V 19 21 05 12.6 39.09N 29.01E 8 3.7L
CSEM V 19 21 05 12.7–.08 39.10N 29.01E 2 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=139.4.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=98.0.
DDA V 19 21 06 17.9 39.08N 29.07E 7 3.6L
CSEM V 19 21 06 17.9 39.08N 29.07E 7 3.6L ¶16853742
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 21 06 46.6–1.0 39.12N–.02 29.12E–.02 8–11 80 0-9
DDA V 19 21 06 45.7 39.13N 29.11E 7 3.8L ¶601584773
ISCJB V 19 21 06 46.3–.43 39.11N–.02 29.11E–.03 9–4 3.8L
ISK V 19 21 06 46.1 39.11N 29.14E 5 3.1
CSEM V 19 21 06 46.4–.08 39.11N 29.12E 2 3.8L
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=9.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=107.0.
ISC V 19 21 08 15.3–.78 39.08N–.05 29.02E–.03 9 3.2b 21 0-39
ISCJB V 19 21 08 13.4–.58 39.07N–.06 29.09E–.05 9 3.2b ¶16710332
DDA V 19 21 08 13.6 39.11N 29.03E 7 4.2L
IDC V 19 21 08 13.6–1.1 39.03N 29.03E 0 3.3,3.2
CSEM V 19 21 08 16.4–.52 39.07N 28.81E 10 4.2L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.0km az=157.7.
IDC Error ellipse: s-maj=21.5km s-min=17.0km az=158.0.
CSEM Event type ke. Error ellipse: s-maj=14.3km s-min=12.5km az=135.0.
ISC V 19 21 09 06.9–.88 39.12N–.02 28.99E–.02 16–7 64 0-2
ISCJB V 19 21 09 06.9–.46 39.12N–.03 28.98E–.03 5–5 ¶601584775
DDA V 19 21 09 06.7 39.13N 29.01E 7 3.6L
ISK V 19 21 09 07.1 39.14N 28.93E 10 3.3L
CSEM V 19 21 09 07.3–.09 39.12N 28.97E 8 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=163.5.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=120.0.
ISC V 19 21 12 51.5–.86 39.11N–.02 29.04E–.01 9–5 4.3b 786 0-116
ISN V 19 21 12 49.9–1.2 39.15N 29.13E 0–108 4.6L ¶16530707
IDC V 19 21 12 49.2–.61 39.07N 28.98E 0 4.2,4.1
ISCJB V 19 21 12 50.6–.35 39.09N–.01 29.06E–.01 11–2 4.3b,3.9s
DDA V 19 21 12 50.7 39.11N 29.04E 8 4.8L,3.9s
MOS V 19 21 12 50.1–1.1 39.15N 29.05E 8 4.6b,3.9s
ISK V 19 21 12 50.9 39.11N 29.04E 6 4.6L,3.9s
CSEM V 19 21 12 51.3–.06 39.09N 29.07E 5 4.5b,3.9s
NEIC V 19 21 12 51.0 39.12N 29.04E 7 4.6L,4.6L
THE V 19 21 12 52.0 39.09N 29.01E 0–1 4.6L,4.6L
NIC V 19 21 12 53.0–.30 38.99N 28.83E 25 4.7b,4.3L
GII V 19 21 12 53.7–.22 38.79N 28.84E 10 4.2b,3.8
ISC Event type fe.
ISN Error ellipse: s-maj=36.3km s-min=105.7km az=-1.0.
IDC Error ellipse: s-maj=12.5km s-min=9.5km az=9.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.7km az=135.6.
DDA Event type ke.
MOS Error ellipse: s-maj=4.5km s-min=3.7km az=99.1.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=47.0.
NEIC Event type fe. Felt [IV] at Kutahya; [III] at Bursa, Buyukcekmece and Izmir; [II] at Istanbul. Also felt at Adapazari, Antalya, Balikesir, Corlu, Esenyurt, Eskisehir, Mudanya, Selcuk, Sindirgi, Soma, Sultanbeyli, Tire and Usak. After ISK.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=57.0.
GII Event type ke.
DDA V 19 21 20 33.7 39.20N 29.07E 7 3.7L
¶601584778
ISC V 19 21 21 29.9–1.1 39.10N–.02 29.04E–.01 0–7 4.1b 453 0-80
IDC V 19 21 21 28.7–.69 39.05N 28.95E 0 4.0,4.0b ¶602861854
ISK V 19 21 21 29.1 39.11N 29.03E 5 4.5L,4.0b
DDA V 19 21 21 29.4 39.11N 29.03E 7 4.3L,4.0b
NEIC V 19 21 21 29.2 39.11N 29.01E 5 4.5L,4.3b
MOS V 19 21 21 29.8–1.7 39.06N 29.04E 8 4.5b,4.3b
ISCJB V 19 21 21 30.0–.36 39.09N–.01 29.02E–.01 9–2 4.2s,4.0b
CSEM V 19 21 21 30.1–.07 39.11N 29.03E 2 4.2b,4.0b
THE V 19 21 21 31.1 39.10N 29.03E 2–1 4.4L,4.0b
NIC V 19 21 21 33.3–.40 39.20N 29.01E 50 4.4b,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=13.8km s-min=10.2km az=10.0.
DDA Event type ke.
NEIC Event type se. After ISK.
MOS Error ellipse: s-maj=5.9km s-min=4.4km az=90.7.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=10.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=22.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=152.0.
ISC V 19 21 24 45.1–1.2 39.10N–.02 29.08E–.03 3–13 72 0-2
DDA V 19 21 24 45.0 39.11N 29.03E 34 3.9L ¶16853743
ISK V 19 21 24 44.3 39.11N 29.01E 5 3.4L
CSEM V 19 21 24 45.9–.13 39.08N 28.99E 10 3.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=107.0.
ISC V 19 21 25 29.1–.92 39.06N–.02 29.05E–.02 12–8 50 0-2
ISK V 19 21 25 27.9 39.06N 29.07E 2 3.2L ¶16853746
ISCJB V 19 21 25 28.9–.51 39.07N–.03 29.04E–.04 4–6 3.2L
DDA V 19 21 25 28.9 39.06N 29.05E 7 3.7L
CSEM V 19 21 25 29.0–.10 39.07N 29.05E 5 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=161.7.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=108.0.
ISC V 19 21 33 12.0–.68 39.13N–.01 29.12E–.01 9–4 4.1b 577 0-92
IDC V 19 21 33 10.0–.81 39.09N 29.11E 0 4.1,4.1b ¶16535771
ISCJB V 19 21 33 10.7–.34 39.14N–.01 29.11E–.01 8–2 4.1b,4.1b
ISK V 19 21 33 10.8 39.15N 29.11E 4 4.4L,4.1b
MOS V 19 21 33 10.9–1.3 39.16N 29.15E 13 4.4b,4.1b
DDA V 19 21 33 10.5 39.13N 29.12E 21 4.3L,4.1b
NEIC V 19 21 33 11.4–.43 39.04N 29.09E 10 4.4b,4.3L
CSEM V 19 21 33 11.4–.06 39.13N 29.11E 5 4.3b,4.3L
THE V 19 21 33 11.4 39.10N 29.13E 0–0 4.2L,4.3L
NIC V 19 21 33 16.8–.20 39.07N 29.44E 25 4.4b,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=11.5km az=9.0.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=149.2.
MOS Error ellipse: s-maj=6.8km s-min=4.5km az=88.5.
DDA Event type ke.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.3km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=63.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=67.0.
ISC V 19 21 45 47.5–1.1 38.93N–.03 29.01E–.03 8–10 52 0-2
DDA V 19 21 45 46.6 39.07N 29.06E 7 2.5 ¶16853752
ISK V 19 21 45 47.9 38.96N 28.93E 5 2.6L
CSEM V 19 21 45 49.0–.16 38.96N 28.95E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=96.0.
ISC V 19 21 55 23.2–.89 39.13N–.02 29.11E–.02 14–8 77 0-2
ISCJB V 19 21 55 23.0–.45 39.12N–.02 29.11E–.03 2–5 ¶16853755
ISK V 19 21 55 22.7 39.12N 29.12E 5 2.8L
DDA V 19 21 55 22.9 39.12N 29.10E 8 2.8
CSEM V 19 21 55 23.2–.08 39.13N 29.11E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=153.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=122.0.
ISC V 19 22 01 59.3–.95 39.12N–.02 28.98E–.02 10–8 69 0-2
ISK V 19 22 01 58.3 39.12N 28.99E 5 2.9L ¶16853756
ISCJB V 19 22 01 59.1–.51 39.12N–.03 28.99E–.04 2–7 2.9L
DDA V 19 22 01 59.1 39.13N 28.99E 7 3.4L
CSEM V 19 22 01 59.5–.11 39.11N 28.98E 5 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=36.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=97.0.
ISC V 19 22 02 43.4–.92 39.11N–.02 29.12E–.02 12–10 60 0-2
ISK V 19 22 02 42.9 39.10N 29.16E 8 2.9L ¶16853759
ISCJB V 19 22 02 43.1–.45 39.11N–.03 29.11E–.04 5–6 2.9L
DDA V 19 22 02 43.2 39.13N 29.10E 7 3.3L
CSEM V 19 22 02 43.5–.10 39.10N 29.13E 8 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=31.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=97.0.
ISC V 19 22 05 51.6–.98 39.12N–.02 29.10E–.02 7–8 200 0-9
DDA V 19 22 05 50.9 39.13N 29.10E 25 3.8L ¶16853760
ISCJB V 19 22 05 51.3–.41 39.11N–.01 29.08E–.02 9–3 3.8L
CSEM V 19 22 05 51.4–.07 39.11N 29.09E 5 3.8L
ISK V 19 22 05 51.1 39.13N 29.11E 5 3.6L
THE V 19 22 05 52.3 39.09N 29.06E 4–3 3.5L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=91.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=102.0.
ISC V 19 22 10 11.4–1.5 39.07N–.02 29.15E–.03 5–13 55 0-2
ISCJB V 19 22 10 11.8–.53 39.09N–.03 29.12E–.04 5–6 ¶16853761
DDA V 19 22 10 11.3 39.13N 29.09E 7 2.8L
ISK V 19 22 10 11.4 39.11N 29.16E 4 2.9L
CSEM V 19 22 10 12.1–.13 39.10N 29.14E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.3km az=10.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=99.0.
ISC V 19 22 11 57.0–.90 39.09N–.02 29.04E–.02 13–8 71 0-2
DDA V 19 22 11 56.8 39.09N 29.04E 7 3.0L ¶16853762
ISCJB V 19 22 11 57.2–.44 39.09N–.03 29.03E–.03 4–5 3.0L
ISK V 19 22 11 57.3 39.10N 29.04E 6 2.9L
CSEM V 19 22 11 57.4–.08 39.10N 29.03E 2 3.0L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=159.4.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=129.0.
ISC V 19 22 18 19.9–.96 39.06N–.04 29.18E–.05 9 34 0-2
ISCJB V 19 22 18 19.8–.84 39.03N–.06 29.20E–.09 9 ¶16853764
ISK V 19 22 18 19.8 39.08N 29.19E 8 2.7
DDA V 19 22 18 19.7 39.10N 29.10E 7 3.3L
CSEM V 19 22 18 20.0–.22 39.03N 29.21E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=4.5km az=38.4.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=2.8km az=126.0.
ISC V 19 22 19 04.9–1.0 39.12N–.02 28.99E–.02 5–9 180 0-9
DDA V 19 22 19 03.8 39.12N 28.99E 7 4.0L ¶16853767
ISCJB V 19 22 19 04.8–.38 39.11N–.02 28.95E–.02 6–3 4.0L
ISK V 19 22 19 04.2 39.11N 28.95E 5 3.6L
THE V 19 22 19 04.8 39.11N 29.01E 1–2 3.3L
CSEM V 19 22 19 05.2–.11 39.10N 28.95E 2 4.0L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=149.7.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=1.4km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=58.0.
ISC V 19 22 25 10.1–.87 39.08N–.03 28.98E–.02 9 40 0-2
ISCJB V 19 22 25 09.8–.47 39.06N–.03 28.99E–.04 9 ¶16853769
CSEM V 19 22 25 09.9–.10 39.08N 28.99E 5 2.5L
ISK V 19 22 25 09.6 39.07N 28.98E 8 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=164.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=136.0.
DDA V 19 22 31 15.3 39.07N 29.06E 7 2.1
CSEM V 19 22 31 15.3 39.07N 29.06E 7 2.1 ¶601584784
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 22 41 12.4–1.0 39.11N–.03 29.03E–.02 4–10 59 0-2
ISCJB V 19 22 41 12.0–.52 39.11N–.04 29.03E–.04 4–6 ¶16853774
ISK V 19 22 41 11.9 39.13N 29.06E 5 2.6L
DDA V 19 22 41 12.0 39.07N 29.04E 7 2.3
CSEM V 19 22 41 12.3–.10 39.11N 29.04E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.0km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=138.0.
ISC V 19 22 42 42.5–1.1 39.08N–.02 29.11E–.02 4–10 54 0-2
ISCJB V 19 22 42 42.3–.54 39.09N–.03 29.09E–.04 1–7 ¶16853775
CSEM V 19 22 42 42.5–.16 39.10N 29.11E 2 2.3
ISK V 19 22 42 42.6 39.11N 29.11E 5 2.6L
DDA V 19 22 42 42.2 39.11N 29.09E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=105.0.
ISC V 19 22 46 00.2–1.0 39.14N–.02 29.05E–.02 3–9 157 0-9
DDA V 19 22 45 59.8 39.12N 29.06E 13 2.8 ¶16853776
ISK V 19 22 45 59.8 39.13N 29.06E 5 3.3L
CSEM V 19 22 46 00.7–.08 39.12N 29.07E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=80.0.
ISC V 19 22 47 18.5–.97 39.07N–.02 29.08E–.02 11–9 126 0-9
ISK V 19 22 47 18.1 39.05N 29.06E 5 3.4L ¶16853777
DDA V 19 22 47 18.1 39.09N 29.08E 7 2.8
CSEM V 19 22 47 19.1–.13 39.07N 29.06E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=86.0.
ISC V 19 22 48 38.9–.00 39.07N–.02 29.08E–.02 7–9 70 0-2
ISCJB V 19 22 48 38.6–.50 39.08N–.03 29.07E–.03 3–6 ¶16853778
CSEM V 19 22 48 38.8–.09 39.08N 29.09E 2 2.4
ISK V 19 22 48 38.5 39.07N 29.16E 5 2.9L
DDA V 19 22 48 38.3 39.14N 29.06E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=160.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=125.0.
ISK V 19 23 00 55.5 39.06N 29.03E 11 2.7
CSEM V 19 23 00 55.5 39.06N 29.03E 11 2.7 ¶16853786
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 23 02 30.7–1.0 39.09N–.03 29.01E–.02 6–10 62 0-2
ISCJB V 19 23 02 30.1–.48 39.09N–.03 29.01E–.03 1–6 ¶16853792
CSEM V 19 23 02 30.5–.07 39.08N 29.00E 5 3.2L
ISK V 19 23 02 30.1 39.09N 29.00E 6 3.0L
DDA V 19 23 02 30.3 39.08N 29.04E 7 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.2km az=25.1.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=101.0.
ISC V 19 23 10 46.4–1.0 39.06N–.02 29.09E–.02 7–9 64 0-2
DDA V 19 23 10 45.9 39.09N 29.07E 7 3.1L ¶16853795
ISCJB V 19 23 10 46.2–.49 39.07N–.03 29.09E–.03 4–6 3.1L
CSEM V 19 23 10 46.4–.10 39.07N 29.11E 5 3.1L
ISK V 19 23 10 46.1 39.07N 29.15E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=173.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=112.0.
ISC V 19 23 11 52.1–1.0 39.09N–.02 29.10E–.02 6–9 120 0-7
DDA V 19 23 11 51.5 39.11N 29.10E 7 3.2L ¶16853796
ISK V 19 23 11 51.2 39.08N 29.12E 5 3.2L
CSEM V 19 23 11 52.5–.08 39.08N 29.12E 2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=96.0.
ISC V 19 23 17 08.4–.90 39.11N–.02 29.05E–.03 16–8 53 0-2
ISCJB V 19 23 17 08.5–.47 39.12N–.03 29.02E–.04 4–6 ¶16853798
DDA V 19 23 17 08.5 39.13N 29.03E 7 2.7L
CSEM V 19 23 17 08.7–.09 39.12N 29.03E 5 2.7L
ISK V 19 23 17 08.0 39.14N 29.02E 3 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=168.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=121.0.
ISC V 19 23 20 52.3–1.0 39.08N–.03 29.01E–.02 7–9 52 0-2
ISCJB V 19 23 20 51.9–.51 39.11N–.04 29.01E–.04 1–7 ¶16853800
DDA V 19 23 20 51.9 39.13N 29.02E 7 2.5L
ISK V 19 23 20 51.1 39.06N 29.05E 5 2.7
CSEM V 19 23 20 52.1–.13 39.10N 29.01E 5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=15.5.

DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=105.0.
ISC V 19 23 23 31.5–.81 39.10N–.03 29.05E–.02 9 76 0-3
ISK V 19 23 23 30.0 39.10N 29.08E 5 2.7L ¶16853801
ISCJB V 19 23 23 31.7–.40 39.08N–.03 29.04E–.03 9 2.7L
DDA V 19 23 23 31.1 39.11N 28.99E 7 2.7L
CSEM V 19 23 23 31.3–.13 39.09N 29.07E 2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=156.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=125.0.
ISC V 19 23 27 09.7–1.0 39.14N–.02 29.13E–.02 6–9 175 0-9
ISK V 19 23 27 08.8 39.15N 29.14E 5 3.2L ¶16853803
ISCJB V 19 23 27 09.6–.40 39.14N–.02 29.11E–.02 5–3 3.2L
THE V 19 23 27 09.6 39.12N 29.12E 2–3 3.0L
CSEM V 19 23 27 09.7–.08 39.14N 29.12E 2 3.7L
DDA V 19 23 27 09.1 39.15N 29.14E 7 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=158.4.
THE Event type ke. Error ellipse: s-maj=4.1km s-min=1.6km az=101.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=85.0.
DDA Event type ke.
ISC V 19 23 29 56.5–1.1 39.10N–.03 29.07E–.02 3–11 55 0-2
DDA V 19 23 29 55.7 39.11N 29.05E 7 2.1 ¶16853804
ISCJB V 19 23 29 56.2–.52 39.10N–.04 29.05E–.03 3–7 2.1
ISK V 19 23 29 56.0 39.10N 29.09E 6 2.7
CSEM V 19 23 29 56.5–.13 39.10N 29.06E 5 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.9km az=167.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=123.0.
ISC V 19 23 30 58.4–1.1 39.09N–.02 29.10E–.02 5–10 54 0-2
ISCJB V 19 23 30 58.4–.49 39.11N–.03 29.06E–.03 1–6 ¶16853805
CSEM V 19 23 30 58.8–.13 39.11N 29.07E 5 2.0
ISK V 19 23 30 58.3 39.11N 29.08E 6 2.7
DDA V 19 23 30 58.2 39.12N 29.07E 7 2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=155.6.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=123.0.
ISC V 19 23 32 22.9–.88 38.97N–.03 28.98E–.03 9 38 0-2
DDA V 19 23 32 22.2 39.06N 29.00E 7 2.5L ¶16853806
ISCJB V 19 23 32 24.0–.48 39.03N–.03 28.97E–.05 9 2.5L
CSEM V 19 23 32 23.8–.21 39.04N 29.00E 2 2.6
ISK V 19 23 32 24.0 39.06N 29.00E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=140.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=89.0.
ISC V 19 23 34 15.2–.95 39.08N–.02 29.10E–.03 11–9 53 0-2
ISCJB V 19 23 34 14.9–.43 39.08N–.03 29.10E–.04 6–5 ¶16853807
ISK V 19 23 34 14.6 39.10N 29.14E 5 2.8
CSEM V 19 23 34 15.2–.11 39.08N 29.11E 8 2.6L
DDA V 19 23 34 15.2 39.06N 29.11E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=44.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=92.0.
ISC V 19 23 38 56.7–1.1 39.05N–.03 28.88E–.03 12–8 44 0-2
ISCJB V 19 23 38 56.9–.63 39.09N–.05 28.91E–.05 6–7 ¶16853809
ISK V 19 23 38 57.3 39.14N 28.94E 8 2.7
CSEM V 19 23 38 57.3–.17 39.14N 28.94E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.9km az=27.9.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=111.0.
ISC V 19 23 40 18.3–.00 39.11N–.02 29.12E–.02 9–11 52 0-2
ISCJB V 19 23 40 17.8–.54 39.11N–.03 29.12E–.04 3–7 ¶16853810
CSEM V 19 23 40 18.1–.11 39.11N 29.12E 5 3.2L
ISK V 19 23 40 18.1 39.14N 29.13E 5 3.0L
DDA V 19 23 40 19.1 39.06N 29.10E 7 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.8km az=36.9.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=107.0.
ISC V 19 23 45 35.8–.96 39.11N–.02 29.05E–.02 9–9 89 0-2
DDA V 19 23 45 35.5 39.14N 29.05E 8 2.7L ¶16853812
ISK V 19 23 45 35.1 39.11N 28.99E 5 3.0
CSEM V 19 23 45 36.3–.14 39.11N 29.04E 2 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=151.0.
ISC V 19 23 49 00.2–1.0 39.10N–.02 29.07E–.02 4–11 94 0-2
ISCJB V 19 23 48 59.9–.46 39.11N–.02 29.07E–.03 2–4 ¶16853813
ISK V 19 23 48 59.9 39.10N 29.09E 5 3.0L
DDA V 19 23 48 59.5 39.11N 29.05E 11 3.1L
CSEM V 19 23 49 00.1–.10 39.11N 29.08E 2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=151.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=133.0.
DDA V 19 23 53 40.4 39.27N 28.87E 7 2.5L
¶602861862
ISK V 19 23 57 10.2 39.17N 29.12E 8 2.7
CSEM V 19 23 57 10.2 39.17N 29.12E 8 2.7 ¶16853815
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 00 00 28.4–.96 39.10N–.03 29.06E–.02 9–8 56 0-2
ISCJB V 20 00 00 28.4–.47 39.11N–.03 29.07E–.03 4–5 ¶16853820
DDA V 20 00 00 28.2 39.08N 29.07E 7 2.2
ISK V 20 00 00 28.8 39.16N 29.07E 6 2.7
CSEM V 20 00 00 28.8–.16 39.13N 29.07E 5 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=169.9.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=116.0.
ISC V 20 00 03 52.6–.99 39.13N–.02 29.04E–.02 7–8 167 0-9
ISCJB V 20 00 03 52.1–.39 39.13N–.02 29.03E–.02 8–3 ¶16853821
DDA V 20 00 03 52.3 39.10N 29.02E 7 3.7L
ISK V 20 00 03 52.0 39.18N 29.03E 5 3.6L
CSEM V 20 00 03 52.5–.12 39.12N 29.06E 5 3.7L
THE V 20 00 03 55.0 39.02N 28.84E 1–1 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=159.1.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=96.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=91.0.
ISC V 20 00 07 36.7–1.1 39.13N–.02 29.06E–.02 5–10 77 0-2
DDA V 20 00 07 37.2 39.12N 29.01E 9 2.7 ¶601584801
ISK V 20 00 07 37.7 39.19N 29.15E 5 3.1L
CSEM V 20 00 07 37.2–.14 39.16N 29.04E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=85.0.
ISC V 20 00 09 11.2–.00 39.12N–.02 29.04E–.02 7–9 58 0-2
ISCJB V 20 00 09 10.8–.50 39.12N–.03 29.04E–.03 1–7 ¶16853823
ISK V 20 00 09 10.9 39.14N 29.06E 7 2.8
CSEM V 20 00 09 11.2–.09 39.12N 29.05E 5 2.2
DDA V 20 00 09 11.1 39.08N 29.06E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.8km az=162.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=139.0.
ISC V 20 00 13 08.7–.89 39.11N–.02 29.08E–.01 11–7 287 0-23
ISK V 20 00 13 07.4 39.12N 29.14E 5 4.1L ¶16710339
DDA V 20 00 13 07.7 39.14N 29.11E 17 4.1L
CSEM V 20 00 13 08.4–.08 39.11N 29.09E 5 4.1L
ISCJB V 20 00 13 08.1–.40 39.11N–.01 29.07E–.02 9–3 3.6b
THE V 20 00 13 09.6 39.09N 29.07E 9–2 3.8L
IDC V 20 00 13 11.5–3.3 39.11N 29.23E 25–27 3.6,3.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=88.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=15.8.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=106.0.
IDC Error ellipse: s-maj=21.7km s-min=14.4km az=35.0.
ISC V 20 00 15 21.2–.87 39.09N–.02 29.05E–.02 14–7 137 0-3
DDA V 20 00 15 20.9 39.11N 29.05E 8 3.5 ¶16853824
ISK V 20 00 15 21.1 39.08N 29.05E 5 3.4L
CSEM V 20 00 15 22.3–.10 39.07N 29.05E 2 3.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=98.0.
ISC V 20 00 19 03.1–.93 39.14N–.03 29.10E–.02 12–8 59 0-2
DDA V 20 00 19 03.0 39.12N 29.13E 7 2.5 ¶16853825
CSEM V 20 00 19 03.7–.15 39.14N 29.08E 2 2.5
ISK V 20 00 19 03.6 39.16N 29.03E 4 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=148.0.
ISC V 20 00 23 31.7–.95 39.11N–.02 29.08E–.01 9–8 239 0-9
ISK V 20 00 23 30.7 39.13N 29.08E 5 3.6L ¶602861863
DDA V 20 00 23 31.0 39.12N 29.11E 16 3.8L
ISCJB V 20 00 23 31.6–.39 39.10N–.01 29.04E–.02 10–3 3.8L
CSEM V 20 00 23 31.8–.08 39.10N 29.06E 5 3.8L
THE V 20 00 23 32.9 39.07N 29.01E 8–2 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=177.5.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=84.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=102.0.
ISC V 20 00 25 20.7–1.0 39.15N–.02 29.11E–.02 4–10 116 0-2
DDA V 20 00 25 20.1 39.10N 29.10E 7 3.0 ¶602385875
ISK V 20 00 25 21.7 39.21N 29.14E 5 3.5L
CSEM V 20 00 25 21.6–.17 39.12N 29.13E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=133.0.
DDA V 20 00 26 39.3 39.12N 29.02E 7 2.6
CSEM V 20 00 26 39.3 39.12N 29.02E 7 2.6 ¶601584808
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 00 27 20.6–.91 39.17N–.03 28.99E–.03 9 100 0-9
CSEM V 20 00 27 19.8 39.17N 28.99E 10 3.5L ¶16853828
ISK V 20 00 27 19.8 39.17N 28.99E 10 3.5L
ISCJB V 20 00 27 20.0–.30 39.17N–.02 28.99E–.03 9 3.5L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 20 00 29 04.8–1.0 39.08N–.02 29.01E–.02 5–9 128 0-3
DDA V 20 00 29 03.6 39.11N 29.00E 7 3.0 ¶16853829
ISK V 20 00 29 04.6 39.08N 29.04E 2 3.5L
CSEM V 20 00 29 05.4–.10 39.06N 29.03E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=82.0.
ISC V 20 00 31 59.7–1.1 39.11N–.02 29.08E–.02 4–12 58 0-2
DDA V 20 00 31 58.6 39.11N 29.08E 7 2.8 ¶16853831
ISCJB V 20 00 31 59.3–.44 39.10N–.03 29.08E–.03 6–5 2.8
ISK V 20 00 31 59.5 39.11N 29.09E 7 2.7
CSEM V 20 00 31 59.6–.10 39.09N 29.08E 5 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=28.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=76.0.
DDA V 20 00 32 32.8 39.09N 29.03E 7 2.7
CSEM V 20 00 32 32.8 39.09N 29.03E 7 2.7 ¶601584811
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 00 39 29.8–1.2 39.07N–.03 29.08E–.02 1–14 61 0-2
DDA V 20 00 39 28.6 39.11N 29.08E 7 2.8 ¶16853837
CSEM V 20 00 39 30.5–.32 39.03N 29.04E 5 2.8
ISK V 20 00 39 31.6 39.14N 28.96E 8 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=4.5km az=171.0.
ISC V 20 00 50 37.2–1.0 39.09N–.02 29.04E–.02 7–9 58 0-2
ISCJB V 20 00 50 37.0–.48 39.09N–.03 29.03E–.03 5–6 ¶16853842
ISK V 20 00 50 36.8 39.06N 29.05E 7 2.9
DDA V 20 00 50 36.9 39.12N 29.03E 7 2.6
CSEM V 20 00 50 37.2–.08 39.08N 29.03E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=166.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=151.0.
ISC V 20 00 51 21.9–1.2 39.09N–.02 29.02E–.02 0–14 52 0-2
ISCJB V 20 00 51 21.6–.54 39.08N–.04 29.03E–.03 1–8 ¶16853845
CSEM V 20 00 51 21.9–.09 39.08N 29.04E 2 2.5
ISK V 20 00 51 21.6 39.09N 29.01E 4 2.8
DDA V 20 00 51 21.3 39.09N 29.03E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=7.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=103.0.
ISC V 20 00 53 03.9–1.2 39.15N–.02 29.13E–.02 1–14 56 0-2
DDA V 20 00 53 03.7 39.12N 29.12E 7 2.4 ¶16853846
ISCJB V 20 00 53 04.0–.51 39.13N–.03 29.08E–.03 2–7 2.4
CSEM V 20 00 53 04.2–.22 39.13N 29.09E 2 2.4
ISK V 20 00 53 04.9 39.22N 29.02E 4 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=25.2.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=5.0km az=41.0.
DDA V 20 00 56 05.3 39.10N 29.01E 7 2.2
CSEM V 20 00 56 05.3 39.10N 29.01E 7 2.2 ¶601584823
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA V 20 00 57 40.8 39.10N 29.02E 7 2.4
CSEM V 20 00 57 41.5–.35 39.09N 29.03E 2 2.4 ¶16560105
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=7.5km az=12.0.
ISC V 20 00 58 33.9–1.0 39.11N–.02 29.08E–.02 4–7 4.3b 320 0-76
IDC V 20 00 58 32.8–.93 39.03N 29.15E 0 4.3,4.2 ¶601584824
ISK V 20 00 58 32.7 39.10N 29.09E 2 4.5L,4.2
DDA V 20 00 58 33.0 39.12N 29.08E 17 4.3L,4.2
NEIC V 20 00 58 33.2 39.10N 29.09E 5 4.5L,4.5b
ISCJB V 20 00 58 33.4–.37 39.11N–.01 29.08E–.02 10–2 4.1b,4.5b
CSEM V 20 00 58 33.7–.06 39.10N 29.08E 5 4.3L,4.5b
THE V 20 00 58 35.2 39.05N 28.96E 1–1 4.0L,4.5b
NIC V 20 00 58 37.1–.40 39.07N 29.22E 16 4.7b,4.4L
ISC Event type ke.
IDC Error ellipse: s-maj=18.7km s-min=11.8km az=40.0.
DDA Event type ke.
NEIC Event type se. After ISK.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=142.7.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=65.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=77.0.
DDA V 20 01 02 59.5 39.11N 29.09E 7 3.3
ISK V 20 01 02 59.5 39.11N 29.10E 5 3.4L ¶602861865
CSEM V 20 01 03 00.5–.10 39.10N 29.09E 2 3.3
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=99.0.
ISC V 20 01 06 14.1–1.0 39.12N–.02 29.03E–.02 5–9 137 0-3
DDA V 20 01 06 13.6 39.13N 29.03E 7 3.0 ¶16853851
ISK V 20 01 06 13.8 39.11N 29.03E 5 3.0L
CSEM V 20 01 06 14.8–.09 39.10N 29.04E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=56.0.
ISC V 20 01 09 07.0–1.2 39.07N–.02 29.04E–.02 1–13 44 0-2
ISCJB V 20 01 09 07.0–.54 39.08N–.03 29.04E–.04 1–8 ¶602385873
DDA V 20 01 09 06.6 39.09N 29.04E 7 2.3
CSEM V 20 01 09 07.4–.15 39.07N 29.04E 2 2.3
ISK V 20 01 09 07.4 39.09N 29.05E 5 2.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=14.7.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=81.0.
ISC V 20 01 12 19.0–1.0 39.11N–.02 29.09E–.02 6–9 61 0-2
ISCJB V 20 01 12 18.6–.52 39.11N–.03 29.09E–.03 1–7 ¶16853854
CSEM V 20 01 12 18.9–.09 39.11N 29.09E 2 2.4
ISK V 20 01 12 18.2 39.11N 29.13E 2 2.7
DDA V 20 01 12 18.3 39.11N 29.09E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=174.6.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=80.0.
ISC V 20 01 16 27.2–.89 39.11N–.02 29.07E–.02 14–7 62 0-2
DDA V 20 01 16 26.7 39.13N 29.06E 8 2.7 ¶16853856
ISCJB V 20 01 16 27.1–.53 39.12N–.04 29.07E–.03 2–7 2.7
CSEM V 20 01 16 27.4–.13 39.13N 29.08E 2 2.7
ISK V 20 01 16 27.1 39.17N 29.08E 5 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.2km az=5.5.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=124.0.
ISC V 20 01 22 03.6–1.0 39.11N–.02 29.03E–.02 5–9 152 0-8
DDA V 20 01 22 02.6 39.10N 29.03E 7 3.1 ¶16853858
ISK V 20 01 22 03.2 39.11N 29.02E 5 3.5L
CSEM V 20 01 22 04.1–.10 39.09N 29.04E 2 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=76.0.
ISC V 20 01 28 16.1–.87 39.11N–.02 28.98E–.02 15–7 62 0-2
ISK V 20 01 28 15.7 39.13N 28.97E 5 2.8L ¶16853860
CSEM V 20 01 28 16.6–.11 39.12N 28.98E 2 2.4
DDA V 20 01 28 16.0 39.12N 28.99E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=78.0.
DDA Event type ke.
ISC V 20 01 33 51.7–1.2 39.38N–.02 29.06E–.02 1–11 50 0-2
ISK V 20 01 33 48.5 39.12N 29.03E 8 3.4L ¶16853861
ISCJB V 20 01 33 52.2–.63 39.37N–.03 29.05E–.04 6–6 3.4L
CSEM V 20 01 33 52.4–.23 39.38N 29.05E 8 3.1
DDA V 20 01 33 58.4 39.08N 29.00E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=146.7.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.9km az=173.0.
ISC V 20 01 36 14.2–1.0 39.13N–.02 28.98E–.02 4–10 132 0-6
DDA V 20 01 36 13.7 39.14N 28.97E 7 3.1 ¶16853862
ISK V 20 01 36 13.5 39.12N 29.00E 5 3.4L
CSEM V 20 01 36 14.6–.09 39.11N 28.99E 2 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=73.0.
ISC V 20 01 41 39.0–1.1 39.14N–.02 29.11E–.02 6–10 59 0-2
ISK V 20 01 41 38.6 39.17N 29.04E 5 2.9 ¶16853863
ISCJB V 20 01 41 39.8–.48 39.16N–.03 29.03E–.03 3–7 2.9
DDA V 20 01 41 40.0 39.13N 29.07E 7 2.6
CSEM V 20 01 41 40.0–.15 39.16N 29.03E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.0km az=170.6.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.3km az=126.0.
ISC V 20 01 48 26.5–1.0 39.11N–.02 29.02E–.02 5–9 141 0-7
DDA V 20 01 48 26.1 39.10N 29.00E 7 3.0 ¶601584838
ISK V 20 01 48 26.1 39.10N 29.02E 5 3.3L
CSEM V 20 01 48 27.2–.08 39.09N 29.02E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=74.0.
ISC V 20 01 55 40.7–.88 39.12N–.02 28.97E–.02 15–7 56 0-2
DDA V 20 01 55 40.8 39.12N 29.01E 7 2.4 ¶16853870
ISK V 20 01 55 40.6 39.12N 28.96E 5 2.8
CSEM V 20 01 55 41.0–.11 39.12N 28.97E 2 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=53.0.
ISC V 20 02 02 28.6–.93 39.12N–.02 29.09E–.02 11–8 48 0-2
ISCJB V 20 02 02 28.4–.47 39.11N–.03 29.09E–.03 8–4 ¶16853873
DDA V 20 02 02 28.4 39.12N 29.08E 7 2.5
ISK V 20 02 02 28.4 39.14N 29.12E 7 2.8
CSEM V 20 02 02 28.6–.13 39.12N 29.09E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=124.0.
ISC V 20 02 03 55.0–1.1 39.09N–.02 28.33E–.02 3–11 60 0-3
CSEM V 20 02 03 54.9–.13 39.10N 28.32E 2 2.7 ¶16853874
DDA V 20 02 03 54.3 39.11N 28.34E 7 2.7
ISK V 20 02 03 55.2 39.13N 28.30E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=108.0.
ISC V 20 02 07 04.1–.89 39.06N–.03 28.98E–.02 14–8 50 0-2
DDA V 20 02 07 03.4 39.11N 29.07E 7 2.2 ¶16853875
ISCJB V 20 02 07 04.0–.49 39.08N–.03 28.98E–.04 9–5 2.2
ISK V 20 02 07 04.1 39.08N 28.95E 13 2.7
CSEM V 20 02 07 04.2–.10 39.08N 28.97E 10 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.8km az=44.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=107.0.
ISC V 20 02 07 38.7–.93 39.12N–.03 28.99E–.02 10–8 39 0-2
ISCJB V 20 02 07 38.8–.51 39.13N–.03 29.00E–.03 9–5 ¶16853878
DDA V 20 02 07 38.0 39.20N 28.98E 7 2.2
CSEM V 20 02 07 38.3–.20 39.06N 29.03E 10 2.2
ISK V 20 02 07 39.9 39.23N 29.04E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=154.9.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.4km az=146.0.
ISC V 20 02 10 27.5–.91 39.12N–.02 29.00E–.01 10–7 202 0-9
ISK V 20 02 10 26.9 39.13N 29.01E 6 3.4L ¶16853879
DDA V 20 02 10 26.7 39.12N 29.02E 15 3.9L
ISCJB V 20 02 10 27.1–.35 39.13N–.01 29.00E–.02 7–3 3.9L
CSEM V 20 02 10 27.2–.08 39.12N 29.01E 5 3.9L
THE V 20 02 10 28.0 39.10N 28.96E 3–2 3.1L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=36.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=101.0.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=108.0.
ISC V 20 02 13 40.9–1.1 39.10N–.02 29.03E–.02 5–12 56 0-2
ISCJB V 20 02 13 40.4–.50 39.09N–.03 29.03E–.03 3–7 ¶16853883
DDA V 20 02 13 40.2 39.08N 29.01E 7 2.2
ISK V 20 02 13 40.7 39.13N 29.03E 5 2.8
CSEM V 20 02 13 40.7–.12 39.11N 29.04E 2 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=10.5.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.8km az=121.0.
ISC V 20 02 18 14.6–.98 39.10N–.03 29.01E–.02 8–10 42 0-2
ISCJB V 20 02 18 14.4–.49 39.11N–.03 29.01E–.03 5–6 ¶16853890
DDA V 20 02 18 14.4 39.09N 28.99E 7 2.4
CSEM V 20 02 18 14.7–.14 39.10N 29.03E 8 2.4
ISK V 20 02 18 15.2 39.19N 29.03E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=163.7.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=141.0.
ISC V 20 02 21 55.9–1.1 39.14N–.02 29.10E–.02 4–11 54 0-2
DDA V 20 02 21 55.1 39.13N 29.10E 7 2.3 ¶16853894
ISK V 20 02 21 55.0 39.13N 29.09E 3 2.8
CSEM V 20 02 21 55.8–.12 39.14N 29.10E 2 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=83.0.
ISC V 20 02 24 25.0–1.1 39.09N–.03 29.03E–.02 4–12 62 0-2
ISCJB V 20 02 24 24.6–.50 39.09N–.03 29.03E–.03 2–6 ¶16853895
DDA V 20 02 24 24.5 39.08N 29.03E 4 2.6
ISK V 20 02 24 24.5 39.11N 29.04E 5 2.9
CSEM V 20 02 24 24.8–.09 39.10N 29.04E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.8km az=179.5.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=173.0.
ISC V 20 02 27 29.0–1.0 39.10N–.03 29.04E–.02 6–10 54 0-2
DDA V 20 02 27 28.5 39.10N 29.04E 7 2.8 ¶16853896
ISK V 20 02 27 28.4 39.09N 29.05E 5 2.8
ISCJB V 20 02 27 29.0–.52 39.08N–.03 29.04E–.03 2–6 2.8
CSEM V 20 02 27 29.3–.10 39.09N 29.05E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=176.8.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=144.0.
ISC V 20 02 29 49.2–1.1 39.11N–.02 29.08E–.02 5–10 80 0-2
ISCJB V 20 02 29 48.8–.49 39.10N–.02 29.08E–.03 2–5 ¶16853897
DDA V 20 02 29 48.9 39.09N 29.07E 7 2.5
ISK V 20 02 29 48.8 39.11N 29.08E 6 2.8L
CSEM V 20 02 29 49.2–.07 39.10N 29.08E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.9km az=165.1.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=112.0.
ISC V 20 02 31 56.6–1.1 39.12N–.02 28.98E–.02 4–10 130 0-7
ISK V 20 02 31 55.4 39.11N 29.01E 5 3.3L ¶16853898
DDA V 20 02 31 56.0 39.10N 28.97E 7 3.8L
CSEM V 20 02 31 56.5–.08 39.11N 29.00E 2 3.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=66.0.
ISC V 20 02 39 35.8–1.0 39.15N–.02 29.04E–.02 7–10 59 0-2
DDA V 20 02 39 34.0 39.27N 28.99E 7 2.6 ¶16853900
ISCJB V 20 02 39 35.6–.47 39.14N–.03 29.02E–.03 3–6 2.6
CSEM V 20 02 39 35.9–.11 39.15N 29.04E 5 2.6
ISK V 20 02 39 35.7 39.17N 29.03E 6 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=158.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=126.0.
ISC V 20 02 42 06.9–.95 39.11N–.02 29.00E–.02 9–9 66 0-2
ISCJB V 20 02 42 06.7–.43 39.09N–.03 29.01E–.03 4–6 ¶16853901
ISK V 20 02 42 06.6 39.10N 29.03E 7 3.0
DDA V 20 02 42 06.3 39.11N 29.01E 7 2.3
CSEM V 20 02 42 07.0–.09 39.10N 29.01E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=179.5.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=114.0.
ISC V 20 02 44 31.8–.88 39.13N–.03 28.98E–.03 9 42 0-2
ISCJB V 20 02 44 31.6–.53 39.11N–.04 28.98E–.04 9 ¶16853902
ISK V 20 02 44 31.4 39.14N 28.97E 8 2.7
CSEM V 20 02 44 31.7–.11 39.12N 28.98E 8 2.7
DDA V 20 02 44 33.7 39.09N 28.67E 19 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=137.2.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=126.0.
DDA V 20 02 45 21.3 39.12N 29.01E 7 2.4
CSEM V 20 02 45 21.3 39.12N 29.01E 7 2.4 ¶16853903
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 02 45 52.0–1.0 39.12N–.02 29.00E–.02 5–10 106 0-2
ISK V 20 02 45 51.1 39.13N 29.04E 5 3.2L ¶16853906
DDA V 20 02 45 51.1 39.13N 28.98E 7 2.7
CSEM V 20 02 45 52.2–.10 39.12N 29.02E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=89.0.
ISC V 20 02 46 28.2–.94 39.07N–.03 29.03E–.02 12–8 48 0-2
ISCJB V 20 02 46 28.5–.45 39.10N–.03 28.99E–.03 5–5 ¶601584844
CSEM V 20 02 46 28.7–.12 39.10N 29.00E 5 2.7
ISK V 20 02 46 28.4 39.12N 29.02E 5 3.0
DDA V 20 02 46 28.4 39.10N 28.99E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=156.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=94.0.
DDA V 20 02 50 22.7 39.10N 29.08E 7 1.9
¶603742744
ISC V 20 02 51 12.7–.89 39.11N–.03 29.10E–.03 9 38 0-2
ISCJB V 20 02 51 12.6–.58 39.10N–.04 29.11E–.05 9 ¶16853907
ISK V 20 02 51 12.6 39.14N 29.11E 7 2.6
CSEM V 20 02 51 12.8–.15 39.11N 29.10E 8 2.6
DDA V 20 02 51 14.8 39.04N 28.65E 27 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=135.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=126.0.
ISK V 20 02 52 03.2 39.21N 29.14E 5 2.7
CSEM V 20 02 52 03.2 39.21N 29.14E 5 2.7 ¶16853910
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 02 53 10.7–1.0 39.15N–.03 28.96E–.03 7–10 41 0-2
ISCJB V 20 02 53 10.7–.55 39.14N–.04 28.98E–.04 3–7 ¶16853911
CSEM V 20 02 53 10.8–.22 39.13N 28.99E 5 2.2
DDA V 20 02 53 11.3 39.02N 29.03E 7 2.2
ISK V 20 02 53 11.9 39.23N 29.00E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=170.2.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=162.0.
ISC V 20 02 54 44.6–.82 39.04N–.02 29.07E–.03 9 45 0-2
DDA V 20 02 54 39.7 39.00N 29.17E 8 2.7 ¶602861867
ISK V 20 02 54 44.9 39.11N 29.00E 5 2.9
ISCJB V 20 02 54 45.3–.42 39.09N–.03 29.01E–.04 9 2.9
CSEM V 20 02 54 45.6–.14 39.09N 29.00E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.0km az=173.7.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=115.0.
ISC V 20 02 57 35.1–.98 39.08N–.03 29.08E–.03 12–8 42 0-2
ISCJB V 20 02 57 35.5–.48 39.10N–.03 29.05E–.03 10–5 ¶16853913
CSEM V 20 02 57 35.6–.12 39.10N 29.05E 10 2.6
ISK V 20 02 57 35.5 39.12N 29.06E 13 2.7
DDA V 20 02 57 35.4 39.08N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=162.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=99.0.
ISC V 20 03 00 32.9–1.0 39.10N–.02 29.11E–.02 6–11 39 0-2
ISCJB V 20 03 00 32.6–.51 39.11N–.04 29.09E–.04 5–7 ¶602861872
ISK V 20 03 00 32.8 39.14N 29.12E 6 2.8
DDA V 20 03 00 32.9 39.07N 29.10E 7 2.3
CSEM V 20 03 00 32.8–.11 39.11N 29.10E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=149.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=113.0.
ISC V 20 03 08 58.3–1.0 39.11N–.02 29.13E–.02 6–9 86 0-3
DDA V 20 03 08 57.6 39.10N 29.10E 7 2.7 ¶16853916
ISK V 20 03 08 57.3 39.12N 29.14E 5 3.0
CSEM V 20 03 08 58.3–.12 39.11N 29.14E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=118.0.
DDA V 20 03 09 31.4 39.06N 28.98E 7 2.7
¶16853920
ISC V 20 03 10 26.0–1.3 39.06N–.03 29.10E–.03 5–12 38 0-2
DDA V 20 03 10 26.2 39.09N 29.08E 7 2.5 ¶601584858
ISK V 20 03 10 27.3 39.12N 29.14E 5 2.7
CSEM V 20 03 10 27.2–.21 39.11N 29.09E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=115.0.
ISC V 20 03 11 06.2–.97 39.11N–.03 29.12E–.03 12–8 44 0-2

ISK V 20 03 11 05.8 39.15N 29.06E 5 2.7 ¶602861875
ISCJB V 20 03 11 06.5–.49 39.11N–.04 29.08E–.03 6–7 2.7
DDA V 20 03 11 06.6 39.07N 29.10E 7 2.5
CSEM V 20 03 11 06.7–.18 39.12N 29.09E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.5km az=173.3.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=142.0.
ISC V 20 03 17 37.5–1.1 39.07N–.02 29.03E–.03 8–10 50 0-2
DDA V 20 03 17 36.8 39.08N 29.03E 7 2.6 ¶16853922
ISCJB V 20 03 17 37.5–.78 39.07N–.03 29.04E–.05 0–10 2.6
ISK V 20 03 17 37.9 39.06N 29.04E 8 3.0
CSEM V 20 03 17 38.0–.16 39.07N 29.03E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.8km az=163.7.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=120.0.
ISC V 20 03 19 03.3–.93 39.05N–.02 29.02E–.03 12–8 53 0-2
ISK V 20 03 19 02.9 39.06N 28.96E 2 2.8 ¶16853923
DDA V 20 03 19 02.2 39.06N 29.08E 7 2.3
CSEM V 20 03 19 03.8–.11 39.05N 28.97E 5 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=89.0.
DDA V 20 03 24 38.9 39.03N 28.64E 30 2.1
¶601584865
DDA V 20 03 25 34.4 39.11N 29.02E 7 2.3
CSEM V 20 03 25 34.3 39.11N 29.02E 7 2.3 ¶603793181
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 03 25 55.8–.92 39.06N–.03 29.12E–.03 9 58 0-3
ISK V 20 03 25 54.8 39.05N 29.12E 3 3.0 ¶16853924
ISCJB V 20 03 25 55.8–.56 39.05N–.04 29.10E–.05 9 3.0
CSEM V 20 03 25 55.4–.18 39.05N 29.12E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.4km az=39.7.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.0km az=136.0.
ISC V 20 03 30 48.4–1.1 39.11N–.02 29.02E–.02 4–12 100 0-2
ISK V 20 03 30 47.3 39.11N 29.07E 5 3.0L ¶16853926
DDA V 20 03 30 47.8 39.11N 29.00E 7 2.9
CSEM V 20 03 30 48.5–.09 39.10N 29.04E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=74.0.
ISC V 20 03 32 46.2–.89 39.10N–.02 29.09E–.02 14–7 82 0-2
CSEM V 20 03 32 46.7–.11 39.10N 29.07E 0–1 3.5L ¶16853927
ISK V 20 03 32 46.2 39.09N 29.04E 4 3.2L
DDA V 20 03 32 46.2 39.10N 29.07E 7 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=105.0.
ISC V 20 03 35 03.2–.90 39.11N–.02 29.05E–.02 13–8 54 0-2
ISCJB V 20 03 35 03.2–.46 39.11N–.03 29.06E–.03 3–7 ¶16853928
DDA V 20 03 35 03.0 39.09N 29.05E 7 2.5
ISK V 20 03 35 03.2 39.13N 29.06E 6 2.7
CSEM V 20 03 35 03.4–.14 39.12N 29.05E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=31.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=106.0.
DDA V 20 03 35 47.1 39.21N 28.72E 7 2.5
¶602861885
ISC V 20 03 48 26.9–.96 39.15N–.03 28.93E–.03 9 32 0-1
DDA V 20 03 48 22.7 39.03N 29.13E 29 2.2 ¶16853931
ISCJB V 20 03 48 26.4–.70 39.11N–.05 28.91E–.05 9 2.2
CSEM V 20 03 48 26.5–.15 39.12N 28.92E 5 2.6
ISK V 20 03 48 26.2 39.13N 28.92E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.2km az=179.1.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=1.0.
ISC V 20 03 49 57.9–.84 39.11N–.03 29.05E–.03 9 38 0-2
ISCJB V 20 03 49 58.2–.55 39.11N–.04 29.04E–.03 9 ¶16853932
CSEM V 20 03 49 58.4–.15 39.11N 29.06E 10 2.6
ISK V 20 03 49 58.2 39.12N 29.07E 12 2.6
DDA V 20 03 49 58.1 39.11N 29.02E 7 2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=173.6.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=175.0.
ISC V 20 04 00 36.1–.96 39.11N–.01 28.98E–.02 7–7 3.5b 227 0-39
ISK V 20 04 00 34.8 39.13N 29.02E 5 3.9L ¶16710355
IDC V 20 04 00 35.1–1.1 39.03N 29.06E 0 3.6,3.5
ISCJB V 20 04 00 35.9–.36 39.11N–.01 28.98E–.02 10–2 3.5b,2.7s
DDA V 20 04 00 35.4 39.14N 29.00E 7 4.0L,2.7s
THE V 20 04 00 36.6 39.09N 28.92E 2–1 3.5L,2.7s
CSEM V 20 04 00 36.1–.09 39.10N 28.98E 5 4.0L,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=16.2km s-min=13.9km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=172.9.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=78.0.
ISC V 20 04 04 09.7–.97 39.10N–.02 29.06E–.02 8–9 56 0-2
ISCJB V 20 04 04 09.6–.43 39.09N–.03 29.06E–.03 4–6 ¶16853937
DDA V 20 04 04 09.5 39.07N 29.05E 7 2.5
CSEM V 20 04 04 10.0–.14 39.11N 29.06E 5 2.5
ISK V 20 04 04 10.2 39.16N 29.07E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=173.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=3.0km az=160.0.
ISC V 20 04 05 16.3–.98 39.04N–.02 29.01E–.02 13–8 54 0-2
DDA V 20 04 05 15.6 39.09N 29.02E 7 2.5 ¶16853938
CSEM V 20 04 05 17.0–.15 39.04N 28.99E 2 2.5
ISK V 20 04 05 17.1 39.05N 28.95E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.3km az=66.0.
ISC V 20 04 08 26.4–.89 39.10N–.02 29.05E–.02 14–7 56 0-2
ISK V 20 04 08 26.7 39.10N 29.03E 5 2.9 ¶16853939
CSEM V 20 04 08 26.9–.08 39.09N 29.04E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=110.0.
ISC V 20 04 11 58.4–.87 39.06N–.03 29.30E–.03 9 36 0-2
ISCJB V 20 04 11 59.4–.51 39.08N–.03 29.22E–.05 9 ¶16853940
CSEM V 20 04 11 59.2–.22 39.09N 29.25E 5 2.3
ISK V 20 04 11 59.2 39.12N 29.32E 8 2.7
DDA V 20 04 12 01.6 39.07N 29.05E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=6.6.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=109.0.
ISC V 20 04 12 43.9–.89 39.10N–.02 29.10E–.02 15–7 52 0-2
DDA V 20 04 12 43.7 39.11N 29.08E 7 2.3 ¶16853943
ISK V 20 04 12 44.2 39.16N 29.10E 6 2.8
CSEM V 20 04 12 44.0–.13 39.13N 29.10E 2 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=93.0.
ISC V 20 04 16 33.7–.87 39.14N–.02 29.13E–.02 14–7 122 0-2
ISK V 20 04 16 33.4 39.11N 29.16E 4 3.0L ¶16853945
DDA V 20 04 16 33.3 39.16N 29.11E 2 3.5L
CSEM V 20 04 16 34.0–.10 39.13N 29.14E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=108.0.
ISC V 20 04 27 50.2–.94 39.09N–.02 29.02E–.02 9–8 113 0-7
ISCJB V 20 04 27 50.0–.43 39.09N–.02 29.02E–.02 3–4 ¶16853951
DDA V 20 04 27 49.8 39.11N 28.99E 7 3.0
ISK V 20 04 27 49.1 39.09N 29.03E 5 3.6L
CSEM V 20 04 27 50.3–.10 39.09N 29.01E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=25.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=67.0.
ISC V 20 04 28 51.4–1.1 39.14N–.02 29.06E–.02 5–10 47 0-2
ISCJB V 20 04 28 51.8–.48 39.15N–.03 29.01E–.03 4–6 ¶16853952
DDA V 20 04 28 51.8 39.13N 29.02E 7 2.3
ISK V 20 04 28 52.2 39.19N 29.03E 8 2.8
CSEM V 20 04 28 52.0–.14 39.15N 29.02E 8 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=140.0.
ISC V 20 04 39 02.9–1.1 39.11N–.02 29.06E–.02 4–10 114 0-7
DDA V 20 04 39 02.7 39.12N 29.08E 7 3.3 ¶601584877
ISK V 20 04 39 02.7 39.11N 29.10E 5 3.5L
CSEM V 20 04 39 03.7–.09 39.10N 29.08E 2 3.3
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=83.0.
ISC V 20 04 44 16.5–1.1 39.12N–.02 28.98E–.02 1–14 60 0-2
DDA V 20 04 44 14.9 39.23N 28.97E 7 2.4 ¶16853955
ISK V 20 04 44 16.3 39.12N 29.00E 5 2.9
CSEM V 20 04 44 16.5–.09 39.12N 28.98E 2 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=133.0.
ISC V 20 04 45 57.1–.99 39.08N–.02 29.01E–.02 6–9 92 0-2
ISCJB V 20 04 45 56.7–.46 39.09N–.02 29.00E–.03 3–5 ¶601584881
DDA V 20 04 45 56.5 39.09N 29.02E 7 3.0
ISK V 20 04 45 56.6 39.07N 29.00E 8 3.1L
CSEM V 20 04 45 57.0–.06 39.08N 29.00E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=3.7.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=103.0.
ISC V 20 04 58 12.3–1.1 39.09N–.03 29.07E–.02 1–10 62 0-2
DDA V 20 04 58 14.6 39.23N 29.06E 7 2.7 ¶601584883
ISK V 20 04 58 14.9 39.14N 29.00E 17 2.8
CSEM V 20 04 58 15.5–.21 39.11N 29.06E 20 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=163.0.
ISC V 20 05 00 36.6–.96 39.10N–.01 29.10E–.02 8–8 3.6b 190 0-35
ISK V 20 05 00 35.8 39.11N 29.09E 5 3.9L ¶16710358
ISCJB V 20 05 00 36.7–.37 39.08N–.02 29.05E–.02 8–3 3.6b
IDC V 20 05 00 36.5–1.3 38.96N 29.05E 0 3.7,3.7
DDA V 20 05 00 36.2 39.12N 29.09E 7 4.2L,3.7
CSEM V 20 05 00 36.7–.11 39.08N 29.07E 2 4.2L,3.7
THE V 20 05 00 38.7 39.04N 28.85E 1–1 3.6L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=5.4.
IDC Error ellipse: s-maj=25.4km s-min=16.0km az=171.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=88.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=80.0.
ISC V 20 05 18 10.9–.92 39.13N–.02 29.03E–.02 13–9 62 0-2
ISCJB V 20 05 18 11.3–.45 39.14N–.03 28.98E–.03 5–5 ¶16853964
CSEM V 20 05 18 11.5–.09 39.13N 28.98E 5 2.5
DDA V 20 05 18 11.1 39.15N 28.99E 7 2.5
ISK V 20 05 18 11.1 39.15N 28.97E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=150.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=142.0.
ISK V 20 05 19 59.5 39.15N 29.10E 5 2.7
CSEM V 20 05 19 59.5 39.15N 29.10E 5 2.7 ¶16853965
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 05 20 37.4–.92 39.11N–.02 29.00E–.02 10–7 175 0-8
ISK V 20 05 20 36.6 39.10N 28.96E 5 3.7L ¶16853968
DDA V 20 05 20 36.8 39.12N 29.02E 7 3.9L
ISCJB V 20 05 20 37.5–.37 39.09N–.02 28.96E–.02 7–3 3.9L
CSEM V 20 05 20 37.9–.09 39.08N 28.95E 5 3.9L
THE V 20 05 20 38.9 39.04N 28.92E 6–2 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=18.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=81.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.8km az=108.0.
ISC V 20 05 22 18.0–.90 39.14N–.03 28.97E–.02 14–7 64 0-2
ISK V 20 05 22 17.8 39.18N 28.95E 5 3.3L ¶16853969
CSEM V 20 05 22 18.6–.13 39.15N 28.96E 2 2.5
DDA V 20 05 22 18.1 39.11N 28.99E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=150.0.
ISC V 20 05 30 00.5–1.0 39.11N–.02 29.08E–.02 5–12 62 0-2
ISK V 20 05 29 58.9 39.11N 29.08E 5 2.9L ¶16853971
ISCJB V 20 05 30 00.0–.48 39.10N–.03 29.08E–.03 2–6 2.9L
DDA V 20 05 30 00.2 39.10N 29.06E 7 2.7
CSEM V 20 05 30 00.4–.12 39.10N 29.09E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=155.4.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=105.0.
ISC V 20 05 37 52.5–.94 39.09N–.02 29.03E–.02 8–7 118 0-39
IDC V 20 05 37 51.0–1.4 39.22N 28.86E 0 3.2,3.2 ¶16710359
ISK V 20 05 37 51.4 39.09N 28.98E 5 3.6L,3.2
CSEM V 20 05 37 52.6–.09 39.07N 29.01E 5 3.7L,3.2
ISCJB V 20 05 37 52.3–.38 39.07N–.02 29.01E–.02 7–3 3.2b,3.2
DDA V 20 05 37 52.1 39.10N 29.03E 7 3.7L,3.2
THE V 20 05 37 53.2 39.04N 29.01E 3–2 3.4L,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=26.8km s-min=16.7km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=149.8.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=93.0.
ISC V 20 06 06 13.7–.99 39.14N–.02 29.13E–.02 8–10 49 0-2
DDA V 20 06 06 12.8 39.12N 29.12E 8 2.6 ¶16853973
ISCJB V 20 06 06 13.3–.47 39.13N–.03 29.12E–.04 3–6 2.6
CSEM V 20 06 06 13.6–.15 39.13N 29.13E 5 2.6
ISK V 20 06 06 13.5 39.18N 29.16E 3 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.6km az=33.5.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=82.0.
ISC V 20 06 07 04.7–1.0 39.13N–.02 29.11E–.02 7–10 99 0-2
ISK V 20 06 07 03.3 39.11N 29.07E 5 2.8L ¶16853976
DDA V 20 06 07 04.4 39.13N 29.11E 7 3.5L
CSEM V 20 06 07 04.6–.16 39.13N 29.10E 0–1 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=114.0.
ISC V 20 06 36 59.0–.94 39.12N–.02 29.00E–.02 13–8 57 0-2
DDA V 20 06 36 58.3 39.11N 29.03E 7 2.6 ¶16853983
ISCJB V 20 06 36 59.4–.57 39.13N–.03 28.98E–.04 4–5 2.6
ISK V 20 06 36 59.3 39.15N 28.95E 4 2.6L
CSEM V 20 06 36 59.8–.18 39.11N 28.97E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=158.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=138.0.
DDA V 20 06 40 29.8 39.07N 29.04E 7 2.1
CSEM V 20 06 40 29.8 39.07N 29.04E 7 2.1 ¶16853984
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 06 40 44.4–1.1 39.05N–.02 29.08E–.02 6–10 71 0-2
DDA V 20 06 40 44.5 39.12N 29.12E 7 2.7 ¶601584899
ISK V 20 06 40 44.1 39.05N 29.07E 5 2.8L
ISCJB V 20 06 40 45.1–.59 39.06N–.03 29.08E–.03 5–5 2.8L
CSEM V 20 06 40 45.0–.21 39.05N 29.07E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=155.3.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.6km az=148.0.
ISC V 20 07 01 36.9–1.1 39.08N–.02 29.03E–.02 8–10 56 0-2
ISK V 20 07 01 35.8 39.07N 29.05E 5 2.6L ¶16853986

DDA V 20 07 01 37.1 39.11N 29.03E 8 2.8
CSEM V 20 07 01 37.2–.14 39.07N 29.04E 5 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=93.0.
ISC V 20 07 14 40.3–.85 39.09N–.03 29.04E–.02 9 54 0-2
DDA V 20 07 14 39.8 39.10N 29.04E 7 3.1L ¶16853988
ISK V 20 07 14 39.7 39.09N 29.02E 5 2.9L
ISCJB V 20 07 14 40.1–.39 39.08N–.03 29.00E–.04 9 2.9L
CSEM V 20 07 14 40.1–.08 39.10N 29.02E 2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=142.3.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=92.0.
ISC V 20 07 19 23.3–.88 39.12N–.02 29.00E–.02 14–7 81 0-2
ISK V 20 07 19 22.6 39.11N 29.00E 5 3.0L ¶16853989
DDA V 20 07 19 23.4 39.12N 29.00E 7 2.9
CSEM V 20 07 19 23.7–.10 39.11N 28.99E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=96.0.
ISC V 20 07 22 13.4–1.0 39.13N–.02 29.05E–.02 6–10 98 0-3
ISCJB V 20 07 22 13.5–.47 39.10N–.02 29.07E–.03 1–5 ¶16853990
DDA V 20 07 22 13.4 39.12N 29.09E 18 3.8L
ISK V 20 07 22 13.0 39.12N 29.07E 5 3.4L
CSEM V 20 07 22 13.9–.12 39.11N 29.07E 2 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=102.0.
ISC V 20 07 35 39.0–.82 39.12N–.02 29.11E–.02 9 85 0-2
DDA V 20 07 35 38.8 39.13N 29.11E 11 3.6L ¶16853993
ISK V 20 07 35 38.6 39.12N 29.11E 5 2.8L
ISCJB V 20 07 35 39.1–.30 39.12N–.02 29.10E–.03 9 2.8L
CSEM V 20 07 35 39.0–.09 39.12N 29.10E 5 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=24.5.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=111.0.
ISC V 20 07 43 10.7–.95 39.10N–.02 29.08E–.02 10–8 98 0-2
ISCJB V 20 07 43 10.8–.50 39.10N–.02 29.08E–.03 2–5 ¶16853994
DDA V 20 07 43 10.5 39.13N 29.10E 6 3.6L
ISK V 20 07 43 10.2 39.10N 29.10E 5 3.1L
CSEM V 20 07 43 11.0–.12 39.10N 29.08E 2 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=129.0.
ISC V 20 08 03 43.9–1.0 39.08N–.02 29.03E–.02 5–8 3.4b 241 0-75
DDA V 20 08 03 43.3 39.09N 29.03E 5 3.9L ¶16710369
ISCJB V 20 08 03 43.4–.36 39.10N–.01 29.01E–.02 7–3 3.5b
ISK V 20 08 03 43.5 39.10N 29.02E 9 3.9L
IDC V 20 08 03 43.6–1.2 39.10N 29.02E 0 3.5,3.5b
CSEM V 20 08 03 43.7–.06 39.08N 29.03E 5 3.9L,3.5b
THE V 20 08 03 44.2 39.04N 29.02E 2–1 3.8L,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.5km az=5.4.
IDC Error ellipse: s-maj=26.0km s-min=15.6km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=81.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=89.0.
ISC V 20 08 16 53.8–.87 38.58N–.03 29.12E–.02 8 61 0-3
DDA V 20 08 16 47.8 39.09N 29.03E 7 3.5L ¶16853996
ISCJB V 20 08 16 55.4–.47 38.64N–.03 29.06E–.05 8 3.5L
CSEM V 20 08 16 55.5–.19 38.64N 29.10E 2 3.5L
ISK V 20 08 17 00.6 39.06N 29.05E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=24.9.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=88.0.
ISK V 20 08 26 16.1 39.06N 29.14E 8 2.6L
DDA V 20 08 26 16.8 39.07N 29.05E 7 2.6 ¶16853997
CSEM V 20 08 26 16.6–.11 39.06N 29.10E 8 2.6
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=135.0.
ISC V 20 08 27 30.7–1.1 39.04N–.04 29.04E–.03 5–10 40 0-2
DDA V 20 08 27 29.9 39.10N 29.03E 7 2.4 ¶16853998
ISCJB V 20 08 27 30.4–.62 39.04N–.05 29.03E–.04 3–8 2.4
ISK V 20 08 27 30.1 39.03N 29.07E 7 2.5L
CSEM V 20 08 27 30.4–.17 39.04N 29.03E 2 2.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.8km az=159.5.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=139.0.
ISC V 20 08 30 53.6–1.0 39.09N–.02 29.05E–.02 7–9 109 0-2
ISCJB V 20 08 30 53.8–.48 39.08N–.02 29.03E–.03 3–4 ¶16853999
ISK V 20 08 30 53.8 39.10N 29.08E 3 3.3L
DDA V 20 08 30 53.1 39.10N 29.00E 16 3.1
CSEM V 20 08 30 54.6–.16 39.06N 29.06E 10 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=147.1.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=121.0.
DDA V 20 08 33 10.4 39.15N 28.99E 6 2.3
¶602861902
ISC V 20 08 48 19.5–1.2 39.10N–.02 28.99E–.03 4–13 64 0-2
ISK V 20 08 48 18.1 39.11N 28.99E 5 2.4 ¶16854002
DDA V 20 08 48 19.1 39.08N 28.98E 9 2.8
CSEM V 20 08 48 19.2–.08 39.10N 29.00E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=126.0.
ISC V 20 08 50 37.9–1.0 39.07N–.03 29.08E–.03 12–8 56 0-2
ISK V 20 08 50 37.6 39.11N 29.05E 2 2.3 ¶16854003
ISCJB V 20 08 50 38.1–.61 39.09N–.03 29.06E–.04 2–6 2.3
CSEM V 20 08 50 38.5–.09 39.09N 29.04E 5 2.9
DDA V 20 08 50 38.9 39.06N 29.00E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=32.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=123.0.
ISC V 20 08 55 46.6–1.1 39.13N–.02 29.14E–.02 7–11 66 0-2
ISK V 20 08 55 45.2 39.13N 29.14E 2 2.5 ¶16854004
ISCJB V 20 08 55 46.1–.46 39.13N–.03 29.12E–.03 5–5 2.5
DDA V 20 08 55 46.0 39.15N 29.13E 7 2.9L
CSEM V 20 08 55 46.2–.08 39.13N 29.13E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=4.7.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=107.0.
ISC V 20 08 58 58.8–1.1 39.12N–.02 29.02E–.02 3–11 78 0-2
ISCJB V 20 08 58 58.5–.42 39.10N–.02 29.02E–.03 4–5 ¶16854005
CSEM V 20 08 58 58.7–.08 39.10N 29.03E 5 2.9L
ISK V 20 08 58 58.2 39.10N 29.05E 6 2.8
DDA V 20 08 58 58.3 39.13N 29.01E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=164.5.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=110.0.
ISC V 20 09 00 44.0–1.0 39.10N–.02 29.11E–.02 10–10 62 0-2
ISCJB V 20 09 00 44.6–.44 39.10N–.03 29.05E–.03 5–5 ¶16854006
CSEM V 20 09 00 44.8–.11 39.10N 29.06E 8 2.9L
ISK V 20 09 00 44.5 39.12N 29.06E 9 2.5L
DDA V 20 09 00 44.3 39.12N 29.04E 17 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=142.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=119.0.
ISC V 20 09 03 36.5–1.1 39.15N–.02 29.10E–.02 18–3 47 0-8
ISCJB V 20 09 03 36.9–.42 39.16N–.03 29.09E–.05 23–6 ¶16854007
CSEM V 20 09 03 36.8–.21 39.16N 29.12E 20 2.6L
ISK V 20 09 03 36.1 39.17N 29.05E 20 2.5L
DDA V 20 09 03 37.4 39.11N 29.10E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=36.1.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=99.0.
ISC V 20 09 06 53.5–.88 39.08N–.02 29.01E–.02 14–7 62 0-2
DDA V 20 09 06 53.4 39.12N 29.00E 7 2.8L ¶16854008
CSEM V 20 09 06 53.7–.16 39.10N 29.02E 2 2.8L
ISK V 20 09 06 53.2 39.09N 29.04E 5 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=143.0.
ISC V 20 09 18 27.2–.93 39.09N–.02 29.05E–.02 10–8 72 0-2
DDA V 20 09 18 26.2 39.13N 29.06E 8 3.0L ¶16854009
ISCJB V 20 09 18 27.0–.42 39.08N–.02 29.05E–.03 4–5 3.0L
CSEM V 20 09 18 27.3–.09 39.09N 29.05E 5 3.0L
ISK V 20 09 18 27.0 39.07N 29.06E 9 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=149.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=120.0.
ISC V 20 09 34 32.8–1.0 39.10N–.02 29.01E–.02 8–9 63 0-2
DDA V 20 09 34 32.4 39.10N 29.00E 7 3.0L ¶16854013
ISK V 20 09 34 32.3 39.07N 29.04E 2 2.8L
CSEM V 20 09 34 33.2–.13 39.08N 29.02E 2 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=89.0.
ISC V 20 09 36 02.8–.94 39.13N–.02 29.04E–.02 10–9 57 0-2
ISCJB V 20 09 36 02.7–.43 39.13N–.03 29.04E–.03 4–5 ¶16854014
DDA V 20 09 36 02.6 39.10N 29.04E 7 2.9L
ISK V 20 09 36 03.4 39.20N 29.03E 5 2.5L
CSEM V 20 09 36 03.1–.15 39.14N 29.05E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=145.8.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=122.0.
ISC V 20 09 56 59.6–.85 39.14N–.02 28.99E–.03 9 70 0-2
ISK V 20 09 56 58.9 39.15N 28.98E 6 2.8L ¶16854019
ISCJB V 20 09 56 59.5–.37 39.14N–.03 28.98E–.04 9 2.8L
DDA V 20 09 56 59.7 39.09N 28.96E 7 3.0L
CSEM V 20 09 56 59.1–.09 39.14N 29.00E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.2km az=135.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=125.0.
ISC V 20 10 14 58.6–.97 39.10N–.02 29.07E–.01 8–8 123 0-3
DDA V 20 10 14 58.0 39.11N 29.08E 6 3.5L ¶16854021
ISK V 20 10 14 57.3 39.09N 29.07E 5 3.1L
CSEM V 20 10 14 58.5–.14 39.08N 29.06E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=140.0.
ISC V 20 10 49 18.3–1.3 39.07N–.04 29.30E–.05 12–10 40 0-2
ISCJB V 20 10 49 17.9–.98 39.09N–.04 29.32E–.07 4–7 ¶16854026
ISK V 20 10 49 17.2 39.08N 29.39E 7 2.4L
CSEM V 20 10 49 18.2–.31 39.09N 29.35E 10 2.4L
DDA V 20 10 49 22.6 39.10N 29.04E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.6km az=31.5.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=3.3km az=125.0.
ISC V 20 11 30 07.8–1.0 39.08N–.02 28.90E–.02 13–9 136 0-9
ISK V 20 11 30 05.3 39.05N 28.98E 5 3.9L ¶16854030
DDA V 20 11 30 06.8 39.12N 29.00E 7 4.0L
ISCJB V 20 11 30 07.2–.47 39.07N–.02 28.88E–.03 12–3 4.0L
CSEM V 20 11 30 07.3–.16 39.04N 28.92E 10 4.0L
THE V 20 11 30 07.8 39.01N 28.72E 0–2 3.4L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=31.7.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=112.0.
THE Event type ke. Error ellipse: s-maj=4.5km s-min=1.5km az=74.0.
ISC V 20 11 50 50.2–1.0 39.11N–.01 28.99E–.01 5–8 3.4b 229 0-40
ISK V 20 11 50 49.2 39.13N 29.04E 5 3.7L ¶16710388
IDC V 20 11 50 49.9–1.1 39.09N 29.17E 0 3.5,3.5b
DDA V 20 11 50 49.5 39.10N 29.00E 12 3.8L,3.5b
ISCJB V 20 11 50 49.6–.40 39.12N–.01 28.99E–.02 1–3 3.4b,2.6s
THE V 20 11 50 50.8 39.05N 28.98E 8–2 3.4L,2.6s
CSEM V 20 11 50 50.0–.11 39.09N 29.00E 2 3.8L,2.6s
ISC Event type ke.
IDC Error ellipse: s-maj=22.3km s-min=17.4km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=40.8.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=99.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=83.0.
ISC V 20 12 04 53.5–.95 39.11N–.03 28.99E–.03 9 35 0-2
ISK V 20 12 04 52.0 39.12N 28.96E 5 2.6L ¶16854036
ISCJB V 20 12 04 53.2–.57 39.08N–.04 29.00E–.05 9 2.6L
DDA V 20 12 04 53.2 39.11N 29.03E 7 3.1L
CSEM V 20 12 04 53.2–.12 39.12N 29.00E 2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=22.0.
ISC V 20 12 06 07.6–.93 39.14N–.02 29.16E–.03 9 45 0-2
DDA V 20 12 06 06.7 39.14N 29.22E 7 3.0L ¶16854037
ISCJB V 20 12 06 07.8–.45 39.12N–.03 29.15E–.04 9 3.0L
CSEM V 20 12 06 07.7–.13 39.15N 29.17E 2 3.0L
ISK V 20 12 06 07.7 39.15N 29.15E 9 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=167.5.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=84.0.
ISC V 20 12 11 46.5–.95 39.07N–.03 29.16E–.04 9 31 0-2
DDA V 20 12 11 45.7 39.06N 29.04E 7 2.8L ¶16854039
ISK V 20 12 11 45.8 39.10N 29.20E 5 2.4L
ISCJB V 20 12 11 46.6–.66 39.06N–.04 29.19E–.07 9 2.4L
CSEM V 20 12 11 46.4–.27 39.08N 29.16E 2 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.9km az=10.9.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.6km az=75.0.
ISC V 20 12 24 21.4–.83 39.07N–.03 29.14E–.04 9 39 0-2
ISK V 20 12 24 16.8 38.85N 29.31E 2 2.7L ¶16854040
CSEM V 20 12 24 20.9–.29 39.09N 29.11E 2 2.7L
ISCJB V 20 12 24 21.5–.48 39.07N–.03 29.12E–.06 9 2.7L
DDA V 20 12 24 21.6 39.05N 29.04E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=6.1km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.7km az=7.7.
ISC V 20 12 27 26.0–.86 39.16N–.02 29.10E–.03 9 60 1-2
ISK V 20 12 27 24.8 39.15N 29.11E 5 3.4L ¶16854041
DDA V 20 12 27 25.5 39.15N 29.09E 3 3.3L
ISCJB V 20 12 27 26.1–.40 39.13N–.03 29.11E–.04 9 3.3L
CSEM V 20 12 27 26.2–.15 39.11N 29.09E 10 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=158.9.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.7km az=93.0.
ISC V 20 12 30 22.3–1.2 39.07N–.02 29.03E–.03 2–12 67 1-2
ISCJB V 20 12 30 22.9–.69 39.11N–.03 29.03E–.04 1–6 ¶16854042
ISK V 20 12 30 22.6 39.13N 29.01E 5 3.4L
DDA V 20 12 30 22.6 39.12N 29.00E 3 3.4L
CSEM V 20 12 30 23.1–.15 39.09N 29.03E 2 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=23.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=119.0.
ISC V 20 12 41 55.9–1.2 39.04N–.04 29.08E–.03 16–10 51 1-2
DDA V 20 12 41 55.8 39.11N 29.01E 7 3.0 ¶16854044
ISK V 20 12 41 55.4 39.08N 29.08E 5 3.0L
CSEM V 20 12 41 56.5–.25 39.08N 29.05E 2 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=142.0.
ISC V 20 13 19 37.7–1.1 39.13N–.02 29.10E–.03 3–11 61 0-2
DDA V 20 13 19 37.2 39.14N 29.10E 7 2.9 ¶16854050
CSEM V 20 13 19 38.0–.17 39.11N 29.10E 2 2.9

ISK V 20 13 19 41.2 39.35N 29.08E 10 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=97.0.
ISC V 20 13 44 19.4–1.1 39.06N–.03 29.09E–.03 16–10 51 0-2
ISK V 20 13 44 19.3 39.07N 29.05E 6 2.7L ¶16854053
DDA V 20 13 44 19.7 39.10N 29.06E 7 2.6
CSEM V 20 13 44 20.0–.09 39.08N 29.05E 5 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=71.0.
ISC V 20 13 48 46.2–.91 39.09N–.03 29.03E–.02 13–7 66 0-2
DDA V 20 13 48 46.0 39.12N 29.05E 7 2.6 ¶16854054
ISK V 20 13 48 45.8 39.11N 29.01E 5 2.6L
ISCJB V 20 13 48 46.6–.46 39.10N–.03 29.03E–.03 5–5 2.6L
CSEM V 20 13 48 46.9–.13 39.11N 29.02E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.7km az=8.9.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=8.0.
ISC V 20 13 49 29.2–.97 39.13N–.03 29.01E–.03 9 32 0-1
ISCJB V 20 13 49 29.0–.72 39.10N–.05 29.04E–.06 9 ¶16854057
DDA V 20 13 49 28.1 39.11N 29.04E 16 2.5
ISK V 20 13 49 28.1 39.13N 29.01E 5 2.5L
CSEM V 20 13 49 29.1–.18 39.14N 29.03E 2 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.4km az=137.6.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=128.0.
ISC V 20 13 55 16.2–.99 39.11N–.03 29.09E–.03 13–8 40 0-2
DDA V 20 13 55 16.0 39.12N 29.10E 7 2.7 ¶16854059
CSEM V 20 13 55 17.2–.29 39.12N 29.11E 2 2.2L
ISK V 20 13 55 20.9 39.38N 29.22E 5 2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.3km az=95.0.
ISC V 20 13 58 42.4–1.2 39.10N–.03 29.07E–.03 7–11 34 0-2
ISK V 20 13 58 39.4 38.99N 28.63E 2 2.7L ¶16854060
ISCJB V 20 13 58 42.6–.81 39.08N–.04 29.08E–.05 10–6 2.7L
CSEM V 20 13 58 42.8–.47 39.11N 29.07E 5 2.6
DDA V 20 13 58 42.6 39.16N 29.11E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.6km az=28.5.
CSEM Event type ke. Error ellipse: s-maj=11.4km s-min=8.9km az=31.0.
ISC V 20 14 08 06.6–1.1 39.04N–.02 29.02E–.02 5–10 57 0-2
DDA V 20 14 08 05.9 39.11N 29.01E 7 3.0L ¶602861912
CSEM V 20 14 08 06.9–.16 39.05N 29.04E 2 3.0L
ISK V 20 14 08 06.5 39.02N 29.09E 6 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=131.0.
ISC V 20 14 38 07.4–.92 39.08N–.02 28.99E–.02 10–8 60 0-2
DDA V 20 14 38 06.9 39.11N 29.00E 7 2.7L ¶16854063
CSEM V 20 14 38 07.8–.16 39.09N 29.01E 2 2.7L
ISK V 20 14 38 07.3 39.12N 29.00E 5 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.6km az=35.0.
ISC V 20 14 49 45.1–1.2 39.09N–.02 29.17E–.04 3–11 33 0-1
ISK V 20 14 49 45.1 39.10N 29.24E 6 2.7 ¶16854065
CSEM V 20 14 49 45.3–.17 39.11N 29.16E 2 2.3
DDA V 20 14 49 46.2 39.06N 29.09E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.1km az=99.0.
ISC V 20 15 35 45.7–1.1 39.12N–.02 29.04E–.01 2–10 159 0-6
DDA V 20 15 35 45.0 39.13N 29.04E 6 3.7L ¶16854073
ISK V 20 15 35 45.9 39.11N 28.99E 10 3.6L
CSEM V 20 15 35 45.6–.08 39.11N 29.02E 2 3.7L
SOF V 20 15 35 48.7 39.37N 28.61E 2 3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=83.0.
ISC V 20 16 46 47.9–1.1 39.04N–.03 29.09E–.04 9–10 30 0-2
ISK V 20 16 46 47.6 39.05N 29.11E 8 2.6 ¶16854079
ISCJB V 20 16 46 48.3–.69 39.09N–.04 29.04E–.05 1–10 2.6
CSEM V 20 16 46 48.5–.14 39.11N 29.04E 2 1.9
DDA V 20 16 46 49.6 39.04N 28.97E 7 1.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.1km az=135.1.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=107.0.
ISC V 20 16 48 09.9–1.1 39.10N–.03 28.99E–.03 17–10 40 0-2
ISK V 20 16 48 09.8 39.10N 28.98E 5 2.8 ¶16854080
CSEM V 20 16 48 10.4–.10 39.11N 28.99E 5 2.2
DDA V 20 16 48 11.5 39.05N 28.97E 7 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=93.0.
ISC V 20 16 53 45.1–1.2 39.18N–.04 31.39E–.07 9 22 0-1
ISCJB V 20 16 53 46.3–.72 39.14N–.04 31.44E–.06 9 ¶16854082
CSEM V 20 16 53 46.4–.20 39.14N 31.47E 8 2.7
ISK V 20 16 53 46.8 39.17N 31.58E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.2km az=6.9.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=84.0.
ISC V 20 16 56 09.3–.96 39.11N–.02 29.01E–.02 8–9 58 0-2
ISCJB V 20 16 56 09.0–.42 39.11N–.03 29.02E–.03 5–5 ¶16854083
ISK V 20 16 56 08.9 39.10N 29.03E 9 2.8
DDA V 20 16 56 09.0 39.09N 29.01E 7 2.1
CSEM V 20 16 56 09.2–.08 39.11N 29.03E 5 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=156.4.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=120.0.
ISC V 20 17 45 46.3–1.0 39.12N–.02 29.00E–.02 6–10 71 0-2
ISCJB V 20 17 45 45.8–.46 39.12N–.03 29.00E–.03 1–6 ¶16854094
DDA V 20 17 45 45.7 39.11N 29.01E 7 2.9L
ISK V 20 17 45 45.9 39.12N 29.04E 7 2.8
CSEM V 20 17 45 46.2–.06 39.11N 29.01E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=171.7.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=135.0.
ISC V 20 17 59 33.2–1.0 39.09N–.03 29.05E–.02 6–10 44 0-2
ISCJB V 20 17 59 32.8–.50 39.09N–.03 29.05E–.03 3–6 ¶16854095
DDA V 20 17 59 33.0 39.07N 29.05E 7 2.5L
ISK V 20 17 59 32.5 39.08N 29.11E 5 2.8
CSEM V 20 17 59 33.1–.09 39.09N 29.06E 5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=178.5.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=139.0.
ISK V 20 19 34 50.6 39.08N 29.11E 6 3.0
CSEM V 20 19 34 50.6 39.08N 29.11E 6 3.0 ¶16854111
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 20 13 11.7–.98 39.12N–.02 28.99E–.02 7–9 163 0-8
ISK V 20 20 13 10.6 39.10N 28.98E 5 3.3L ¶16854113
DDA V 20 20 13 11.0 39.11N 29.01E 5 3.5L
CSEM V 20 20 13 11.7–.13 39.08N 29.00E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=73.0.
ISC V 20 20 56 44.5–1.1 39.11N–.02 29.04E–.02 4–11 138 0-7
ISK V 20 20 56 43.9 39.11N 29.02E 4 3.3L ¶16854121
DDA V 20 20 56 43.8 39.13N 29.05E 8 3.5L
CSEM V 20 20 56 44.3–.07 39.10N 29.03E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=77.0.
ISC V 20 22 01 08.3–1.1 39.18N–.02 29.12E–.01 2–9 167 0-7
ISK V 20 22 01 07.0 39.17N 29.08E 5 3.1L ¶16854132
DDA V 20 22 01 07.7 39.18N 29.11E 6 3.5L
CSEM V 20 22 01 08.2–.10 39.18N 29.10E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=107.0.
ISC V 20 22 34 42.4–.78 40.89N–.02 26.00E–.01 9–4 275 0-7
ATH V 20 22 34 40.9 40.90N 26.06E 22–0 3.2L ¶16854134
ISCJB V 20 22 34 41.5–.38 40.90N–.02 25.96E–.02 4–3 3.2L
CSEM V 20 22 34 42.4–.08 40.86N 25.97E 5 3.2L
THE V 20 22 34 42.2 40.93N 26.00E 1–1 3.4L
ISK V 20 22 34 42.2 40.88N 26.01E 6 3.5L
DDA V 20 22 34 43.1 40.85N 26.08E 22 3.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=12.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=5.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=72.0.
ISC V 20 22 53 56.5–.94 39.14N–.02 29.13E–.03 15–10 64 0-2
ISCJB V 20 22 53 56.7–.44 39.14N–.03 29.10E–.03 5–6 ¶16854140
ISK V 20 22 53 56.1 39.13N 29.10E 5 2.9
CSEM V 20 22 53 57.0–.10 39.13N 29.10E 8 3.1L
DDA V 20 22 53 57.2 39.12N 29.08E 7 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=142.2.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=101.0.
ISK V 20 22 56 51.1 40.87N 26.09E 5 2.5
CSEM V 20 22 56 51.1 40.87N 26.09E 5 2.5 ¶16854144
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 23 04 51.3–.90 39.10N–.03 29.03E–.03 9 37 0-1
ISK V 20 23 04 49.8 39.03N 29.15E 9 2.7 ¶16854145
ISCJB V 20 23 04 51.1–.48 39.09N–.04 29.02E–.05 9 2.7
DDA V 20 23 04 51.0 39.09N 29.02E 7 2.6L
CSEM V 20 23 04 51.1–.12 39.10N 29.02E 5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=44.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=114.0.
ISC V 20 23 19 28.2–1.1 39.09N–.02 29.06E–.02 2–11 67 0-2
ISCJB V 20 23 19 27.8–.47 39.08N–.03 29.05E–.03 2–6 ¶16854148
DDA V 20 23 19 27.7 39.09N 29.07E 7 2.8L
ISK V 20 23 19 27.6 39.07N 29.06E 6 2.8
CSEM V 20 23 19 28.3–.09 39.08N 29.06E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.9km az=0.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=2.0km az=58.0.
ISC V 20 23 24 27.0–1.1 39.10N–.02 28.99E–.03 5–12 72 0-2
ISK V 20 23 24 25.9 39.10N 29.00E 2 2.9 ¶16854149
DDA V 20 23 24 26.6 39.10N 28.97E 7 3.1L
CSEM V 20 23 24 26.7–.11 39.10N 29.00E 2 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=111.0.
ISC V 20 23 28 19.2–.87 39.09N–.03 29.07E–.03 9 34 0-2
ISK V 20 23 28 18.8 39.07N 29.11E 11 2.7 ¶16854153
ISCJB V 20 23 28 19.5–.51 39.10N–.04 29.04E–.04 9 2.7
CSEM V 20 23 28 19.5–.11 39.10N 29.05E 8 2.7
DDA V 20 23 28 19.5 39.11N 29.03E 7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=146.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=137.0.
DDA Event type ke.
ISC V 20 23 37 30.7–.98 39.09N–.02 29.03E–.02 8–9 76 0-2
ISCJB V 20 23 37 30.3–.48 39.10N–.03 29.02E–.03 1–6 ¶16854159
DDA V 20 23 37 30.2 39.09N 29.05E 5 3.2L
CSEM V 20 23 37 30.5–.09 39.09N 29.03E 5 3.2L
ISK V 20 23 37 30.4 39.10N 29.00E 9 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=6.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=140.0.
ISC V 20 23 40 18.4–.91 39.09N–.03 29.10E–.02 14–8 46 0-2
ISK V 20 23 40 17.4 39.08N 29.12E 9 2.7 ¶16854160
ISCJB V 20 23 40 18.0–.49 39.09N–.04 29.09E–.04 9–5 2.7
DDA V 20 23 40 18.2 39.12N 29.09E 7 2.3L
CSEM V 20 23 40 18.1–.08 39.09N 29.10E 8 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=143.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=117.0.
ISC V 20 23 55 42.4–.89 39.10N–.02 29.00E–.02 16–7 63 0-2
ISK V 20 23 55 42.4 39.09N 28.98E 5 2.8 ¶16854166
CSEM V 20 23 55 42.8–.07 39.10N 29.00E 2 2.9L
DDA V 20 23 55 42.5 39.11N 29.02E 7 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=137.0.
DDA Event type ke.
ISC V 20 23 59 42.9–.85 39.08N–.03 29.03E–.02 9 44 0-2
ISCJB V 20 23 59 42.7–.43 39.07N–.03 29.02E–.04 9 ¶16854167
ISK V 20 23 59 42.2 39.08N 29.02E 6 2.7
CSEM V 20 23 59 42.8–.09 39.08N 29.02E 6–1 2.5L
DDA V 20 23 59 42.6 39.09N 29.03E 7 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.0km az=165.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=31.0.
DDA Event type ke.
ISC V 21 00 06 15.6–1.1 39.15N–.03 29.04E–.02 5–13 46 0-2
ISK V 21 00 06 14.8 39.15N 29.06E 5 2.7 ¶16854172
ISCJB V 21 00 06 15.1–.48 39.15N–.04 29.03E–.04 5–6 2.7
CSEM V 21 00 06 15.2–.08 39.15N 29.05E 5 2.2L
DDA V 21 00 06 15.2 39.12N 29.03E 7 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=148.6.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=113.0.
DDA Event type ke.
ISC V 21 00 09 52.2–.98 39.11N–.02 29.10E–.02 8–8 194 0-9
ISCJB V 21 00 09 52.0–.40 39.10N–.02 29.07E–.02 9–3 ¶16854173
ISK V 21 00 09 51.9 39.12N 29.08E 8 3.4L
DDA V 21 00 09 51.7 39.14N 29.10E 4 3.5L
CSEM V 21 00 09 52.3–.07 39.10N 29.09E 8 3.5L
THE V 21 00 09 52.7 39.08N 29.10E 4–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=16.6.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=95.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=163.0.
ISC V 21 00 14 09.6–.98 39.08N–.03 29.09E–.04 9 35 0-2
ISCJB V 21 00 14 09.8–.60 39.09N–.04 29.05E–.06 9 ¶16854175
DDA V 21 00 14 09.6 39.10N 29.13E 7 3.0L
CSEM V 21 00 14 09.8–.13 39.08N 29.08E 8 2.7
ISK V 21 00 14 09.3 39.09N 29.06E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.6km az=30.5.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=126.0.
ISC V 21 00 16 29.7–.91 39.11N–.03 29.05E–.03 9 32 0-2
ISK V 21 00 16 27.8 39.00N 29.29E 8 2.5 ¶16854176
ISCJB V 21 00 16 29.7–.49 39.09N–.04 29.05E–.04 9 2.5
DDA V 21 00 16 29.3 39.13N 29.02E 7 2.3L
CSEM V 21 00 16 29.6–.19 39.11N 29.05E 2 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=141.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.0km az=120.0.
ISC V 21 00 19 09.0–.94 39.09N–.03 29.07E–.03 11–10 41 0-2
ISCJB V 21 00 19 08.7–.51 39.09N–.03 29.06E–.04 3–8 ¶16854177
DDA V 21 00 19 08.6 39.09N 29.06E 7 2.2L
CSEM V 21 00 19 08.9–.09 39.10N 29.06E 5 2.2L
ISK V 21 00 19 08.0 39.05N 29.15E 6 2.5

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=144.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=112.0.

ISC	**V**	**21 00 20 55.9–1.2**	**39.05N–.02**	**29.13E–.02**	**2–11**		**61**	**0-2**
ISK	V	21 00 20 55.6	39.01N	29.16E	7	2.8		¶16854178
DDA	V	21 00 20 56.0	39.11N	29.06E	7	2.7		
ISCJB	V	21 00 20 56.2–.51	39.06N–.03	29.06E–.04	3–7	2.7		
CSEM	V	21 00 20 56.4–.12	39.05N	29.09E	5	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=166.6.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=114.0.

ISC	**V**	**21 00 26 06.7–1.1**	**39.07N–.04**	**29.14E–.03**	**12–11**		**27**	**0-2**
ISK	V	21 00 26 06.0	39.12N	29.14E	2	2.5		¶16854179
ISCJB	V	21 00 26 07.1–.56	39.11N–.05	29.10E–.05	6–7	2.5		
DDA	V	21 00 26 07.3	39.07N	29.10E	7	2.0L		
CSEM	V	21 00 26 07.2–.18	39.10N	29.10E	8	2.0L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=144.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=128.0.

ISC	**V**	**21 00 31 58.7–.88**	**39.12N–.02**	**29.01E–.02**	**9**		**52**	**0-2**
ISCJB	V	21 00 31 58.5–.38	39.11N–.03	29.01E–.04	9			¶16854180
DDA	V	21 00 31 58.7	39.14N	28.99E	7	2.6L		
CSEM	V	21 00 31 58.7–.08	39.11N	29.02E	8	2.6L		
ISK	V	21 00 31 58.1	39.11N	29.05E	9	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=142.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=114.0.

ISC	**V**	**21 00 33 12.9–.98**	**39.10N–.03**	**29.05E–.03**	**9–11**		**46**	**0-2**
ISK	V	21 00 33 12.3	39.07N	29.10E	8	2.7		¶16854181
ISCJB	V	21 00 33 13.0–.54	39.12N–.04	29.01E–.04	5–9	2.7		
DDA	V	21 00 33 13.1	39.12N	29.00E	7	2.6L		
CSEM	V	21 00 33 13.2–.13	39.13N	29.01E	5	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.1km az=150.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=127.0.

DDA	**V**	**21 00 43 11.5**	**39.10N**	**29.06E**	**7**	**2.7L**		
CSEM	V	21 00 43 11.5	39.10N	29.06E	7	2.7L		¶601584984

DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**V**	**21 00 50 52.8–1.0**	**39.10N–.02**	**29.03E–.02**	**5–12**		**59**	**0-2**
ISCJB	V	21 00 50 52.5–.51	39.10N–.03	29.02E–.03	2–7			¶16854184
DDA	V	21 00 50 52.7	39.10N	29.00E	7	2.8L		
CSEM	V	21 00 50 52.7–.07	39.10N	29.03E	2	2.8L		
ISK	V	21 00 50 52.2	39.08N	29.03E	6	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=179.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=109.0.

ISC	**V**	**21 00 52 58.9–1.0**	**39.05N–.03**	**29.11E–.03**	**11–9**		**42**	**0-2**
ISK	V	21 00 52 58.8	39.04N	29.12E	8	2.8		¶16854185
ISCJB	V	21 00 52 59.3–.54	39.05N–.05	29.09E–.04	5–8	2.8		
DDA	V	21 00 52 59.2	39.08N	29.07E	7	2.3L		
CSEM	V	21 00 52 59.3–.10	39.06N	29.10E	5	2.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.5km az=154.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=120.0.

ISC	**V**	**21 01 03 55.2–1.0**	**39.08N–.02**	**29.06E–.02**	**5–10**		**49**	**0-2**
ISCJB	V	21 01 03 54.9–.59	39.08N–.04	29.05E–.03	0–8			¶16854191
DDA	V	21 01 03 54.6	39.08N	29.05E	7	2.7L		
ISK	V	21 01 03 54.2	39.04N	29.15E	5	2.7		
CSEM	V	21 01 03 55.1–.10	39.09N	29.06E	2	2.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.0km az=157.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=128.0.

ISC	**V**	**21 01 11 15.9–1.1**	**39.12N–.02**	**29.06E–.02**	**6–10**		**55**	**0-2**
DDA	V	21 01 11 15.7	39.11N	29.08E	7	2.7L		¶16854193
ISCJB	V	21 01 11 16.1–.51	39.11N–.04	29.07E–.04	3–7	2.7L		
ISK	V	21 01 11 16.4	39.14N	29.07E	5	2.9		
CSEM	V	21 01 11 16.3–.13	39.12N	29.08E	2	2.7L		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.6km az=4.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=125.0.

ISC	**V**	**21 01 15 17.0–1.0**	**39.08N–.03**	**29.04E–.02**	**7–11**		**50**	**0-2**
ISCJB	V	21 01 15 16.5–.50	39.09N–.03	29.03E–.04	3–8			¶16854194
ISK	V	21 01 15 16.2	39.07N	29.03E	6	2.8		
CSEM	V	21 01 15 16.8–.07	39.08N	29.03E	5	2.8L		
DDA	V	21 01 15 16.6	39.11N	29.04E	7	2.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=105.0.
DDA Event type ke.

ISC	**V**	**21 01 24 59.7–.93**	**39.13N–.03**	**29.10E–.02**	**12–10**		**42**	**0-2**
ISK	V	21 01 24 58.9	39.12N	29.12E	8	2.6		¶16854195
ISCJB	V	21 01 24 59.5–.50	39.12N–.03	29.10E–.04	9–5	2.6		
DDA	V	21 01 24 59.5	39.13N	29.11E	7	2.2L		
CSEM	V	21 01 24 59.5–.06	39.13N	29.09E	8	2.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=41.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=117.0.

ISC	**V**	**21 01 27 50.3–1.1**	**39.10N–.04**	**29.07E–.03**	**4–12**		**28**	**0-2**
ISCJB	V	21 01 27 49.9–.62	39.10N–.05	29.07E–.05	2–10			¶16854196
DDA	V	21 01 27 49.9	39.09N	29.06E	7	2.1L		
ISK	V	21 01 27 49.8	39.11N	29.11E	5	2.7		
CSEM	V	21 01 27 50.1–.08	39.10N	29.07E	4–1	2.1L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.6km az=151.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=1.6km az=141.0.

ISC	**V**	**21 01 32 16.1–1.0**	**39.12N–.02**	**29.03E–.02**	**6–12**		**65**	**0-2**
ISCJB	V	21 01 32 15.5–.53	39.12N–.03	29.02E–.03	1–7			¶16854197
DDA	V	21 01 32 15.6	39.12N	29.04E	7	3.0L		
CSEM	V	21 01 32 15.8–.06	39.12N	29.03E	2	3.0L		
ISK	V	21 01 32 15.5	39.11N	29.01E	5	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=3.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.2km az=125.0.

ISC	**V**	**21 01 35 31.4–.91**	**39.10N–.02**	**29.07E–.02**	**12–8**		**67**	**0-2**
ISK	V	21 01 35 30.5	39.08N	29.09E	14	2.9		¶16854198
ISCJB	V	21 01 35 31.2–.45	39.10N–.03	29.06E–.03	9–4	2.9		
DDA	V	21 01 35 31.4	39.10N	29.07E	7	3.0L		
CSEM	V	21 01 35 31.4–.12	39.11N	29.06E	10	3.0L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=143.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=144.0.

ISK	**V**	**21 01 35 44.1**	**40.72N**	**29.23E**	**6**	**2.0**		
CSEM	V	21 01 35 44.1	40.72N	29.23E	6	2.0		¶16854201

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**V**	**21 01 36 56.7–.97**	**39.08N–.02**	**29.06E–.02**	**8–9**		**52**	**0-2**
ISCJB	V	21 01 36 56.5–.46	39.08N–.03	29.06E–.03	4–6			¶16854202
DDA	V	21 01 36 56.3	39.09N	29.05E	7	2.6L		
CSEM	V	21 01 36 56.7–.09	39.08N	29.06E	5	2.6L		
ISK	V	21 01 36 56.3	39.07N	29.10E	5	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=153.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=92.0.

ISC	**V**	**21 01 44 25.3–1.0**	**39.13N–.02**	**29.00E–.02**	**7–11**		**59**	**0-2**
ISCJB	V	21 01 44 24.7–.48	39.13N–.03	29.00E–.03	2–7			¶16854208
DDA	V	21 01 44 24.7	39.12N	28.99E	7	3.0L		
ISK	V	21 01 44 24.1	39.13N	28.99E	3	2.9		
CSEM	V	21 01 44 25.0–.08	39.12N	29.00E	5	3.0L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=30.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=57.0.

ISC	**V**	**21 01 48 28.7–.96**	**39.11N–.02**	**29.03E–.02**	**11–9**		**45**	**0-2**
ISCJB	V	21 01 48 28.6–.47	39.09N–.03	29.03E–.04	7–6			¶16854209
DDA	V	21 01 48 28.6	39.09N	29.03E	7	2.6L		
CSEM	V	21 01 48 28.8–.06	39.10N	29.03E	8	2.6L		
ISK	V	21 01 48 28.3	39.10N	29.04E	9	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.6km az=24.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=91.0.

ISC	**V**	**21 01 51 28.4–.97**	**39.11N–.03**	**29.04E–.02**	**8–11**		**44**	**0-2**
ISK	V	21 01 51 27.8	39.12N	29.05E	7	2.7		¶16854216
ISCJB	V	21 01 51 28.1–.48	39.11N–.03	29.04E–.03	5–7	2.7		
CSEM	V	21 01 51 28.3–.07	39.10N	29.04E	8	2.6L		
DDA	V	21 01 51 28.2	39.08N	29.04E	7	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=162.1.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=116.0.
DDA Event type ke.

ISC	**V**	**21 02 05 59.9–.88**	**39.16N–.03**	**29.10E–.02**	**17–8**		**44**	**0-2**
ISCJB	V	21 02 05 60.0–.48	39.16N–.03	29.07E–.04	10–5			¶16854218
ISK	V	21 02 05 59.6	39.19N	29.06E	10	2.6		
CSEM	V	21 02 06 00.1–.09	39.17N	29.07E	10	2.4L		
DDA	V	21 02 06 00.2	39.12N	29.10E	7	2.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=41.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=101.0.
DDA Event type ke.

ISC	**V**	**21 02 12 14.1–.90**	**39.12N–.02**	**29.01E–.02**	**13–7**		**63**	**0-2**
DDA	V	21 02 12 13.9	39.13N	29.01E	7	2.9L		¶16854219
ISCJB	V	21 02 12 14.2–.47	39.12N–.03	29.01E–.03	4–7	2.9L		
ISK	V	21 02 12 14.0	39.10N	29.01E	8	2.9L		
CSEM	V	21 02 12 14.4–.10	39.12N	29.01E	5	2.9L		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=11.4.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=121.0.

ISC	**V**	**21 02 21 13.2–.81**	**39.09N–.02**	**29.05E–.02**	**9**		**100**	**0-7**
ISK	V	21 02 21 11.6	39.08N	29.06E	5	3.2L		¶602385886
ISCJB	V	21 02 21 13.0–.32	39.07N–.02	29.05E–.03	9	3.2L		
CSEM	V	21 02 21 12.8–.09	39.07N	29.06E	2	3.2L		
DDA	V	21 02 21 12.4	39.10N	29.04E	7	3.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=113.0.
DDA Event type ke.

ISC	**V**	**21 02 29 23.4–.93**	**39.12N–.03**	**29.01E–.02**	**11–8**		**48**	**0-2**
ISK	V	21 02 29 22.9	39.12N	29.04E	10	2.6		¶16854226
ISCJB	V	21 02 29 23.2–.46	39.10N–.03	29.02E–.03	9–5	2.6		
CSEM	V	21 02 29 23.4–.08	39.11N	29.02E	10	2.8L		
DDA	V	21 02 29 23.3	39.09N	29.01E	7	2.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=156.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=110.0.
DDA Event type ke.

ISC	**V**	**21 02 42 16.2–.87**	**39.11N–.02**	**29.11E–.02**	**17–8**		**65**	**0-2**
ISK	V	21 02 42 15.9	39.11N	29.08E	5	2.8		¶16854231
DDA	V	21 02 42 16.5	39.12N	29.11E	7	3.0L		
CSEM	V	21 02 42 16.5–.07	39.12N	29.09E	5	3.0L		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=115.0.

ISC	**V**	**21 03 13 17.7–1.1**	**39.13N–.04**	**29.01E–.05**	**13–12**		**28**	**0-1**
DDA	V	21 03 13 16.9	39.13N	28.99E	7	3.0		¶16854236
ISCJB	V	21 03 13 17.4–.78	39.13N–.06	29.00E–.04	4–8	3.0		
ISK	V	21 03 13 17.3	39.14N	29.02E	6	2.5		
CSEM	V	21 03 13 17.7–.13	39.12N	29.02E	8	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.4km az=3.3.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=172.0.

ISC	**V**	**21 03 15 12.9–.84**	**39.09N–.03**	**29.16E–.03**	**9**		**35**	**0-2**
ISK	V	21 03 15 11.6	39.03N	29.27E	5	2.7		¶16854237
ISCJB	V	21 03 15 13.2–.48	39.11N–.03	29.13E–.05	9	2.7		
DDA	V	21 03 15 13.4	39.12N	29.04E	7	2.8		
CSEM	V	21 03 15 13.0–.28	39.11N	29.14E	5	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=22.9.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.9km az=119.0.

ISC	**V**	**21 03 17 15.3–1.1**	**39.12N–.02**	**29.12E–.03**	**5–11**		**46**	**0-2**
ISCJB	V	21 03 17 15.5–.58	39.13N–.03	29.09E–.05	4–8			¶16854238
DDA	V	21 03 17 15.5	39.13N	29.09E	7	2.7		
CSEM	V	21 03 17 15.9–.10	39.12N	29.12E	8	2.7		
ISK	V	21 03 17 15.2	39.11N	29.15E	8	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=40.2.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=104.0.

ISC	**V**	**21 03 19 33.4–.92**	**39.11N–.02**	**29.09E–.02**	**11–8**		**70**	**0-2**
ISK	V	21 03 19 31.8	39.10N	29.10E	2	2.7		¶16854239
ISCJB	V	21 03 19 32.7–.54	39.12N–.03	29.08E–.03	1–7	2.7		
DDA	V	21 03 19 32.7	39.13N	29.09E	15	2.8		
CSEM	V	21 03 19 33.0–.14	39.12N	29.07E	2	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=172.8.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=115.0.

ISC	**V**	**21 03 38 48.5–1.0**	**39.11N–.01**	**29.04E–.01**	**4–9**		**195**	**0-3**
ISCJB	V	21 03 38 48.2–.40	39.10N–.02	29.03E–.02	2–3			¶16854242
DDA	V	21 03 38 48.1	39.11N	29.00E	7	3.5L		
ISK	V	21 03 38 48.4	39.09N	29.01E	8	3.3L		
THE	V	21 03 38 48.5	39.09N	29.07E	0–0	3.0L		
CSEM	V	21 03 38 48.3–.08	39.09N	29.04E	2	3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=43.4.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=104.0.

ISC	**V**	**21 03 39 41.6–.95**	**39.09N–.02**	**29.04E–.03**	**12–8**		**50**	**0-2**
ISCJB	V	21 03 39 41.8–.47	39.11N–.03	29.02E–.03	8–5			¶16854245
ISK	V	21 03 39 41.4	39.08N	29.01E	14	2.7		
CSEM	V	21 03 39 42.0–.13	39.11N	29.03E	10	3.0L		
DDA	V	21 03 39 42.4	39.08N	29.01E	7	3.0L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=143.7.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=111.0.

ISC	**V**	**21 03 42 34.0–.94**	**39.09N–.02**	**29.05E–.02**	**10–8**		**62**	**0-2**
ISCJB	V	21 03 42 33.8–.45	39.09N–.03	29.05E–.03	3–6			¶16854246
ISK	V	21 03 42 33.6	39.07N	29.05E	5	2.6		
DDA	V	21 03 42 34.0	39.06N	29.05E	7	2.8		
CSEM	V	21 03 42 34.0–.08	39.09N	29.06E	2	2.8		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=166.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=131.0.
ISC V 21 03 53 12.3–1.2 39.02N–.03 29.16E–.03 8–10 57 0-2
ISCJB V 21 03 53 12.9–.61 39.08N–.04 29.11E–.04 1–7 ¶16854248
DDA V 21 03 53 12.8 39.08N 29.12E 7 2.9
ISK V 21 03 53 12.9 39.05N 29.12E 8 2.7
CSEM V 21 03 53 13.3–.10 39.07N 29.12E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=148.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=120.0.
ISC V 21 04 02 42.9–.98 39.25N–.02 28.95E–.02 7–9 143 0-2
DDA V 21 04 02 42.5 39.26N 28.93E 9 3.5L ¶16854249
ISK V 21 04 02 42.2 39.24N 28.94E 6 3.0L
CSEM V 21 04 02 42.6–.10 39.25N 28.97E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=120.0.
ISC V 21 04 14 05.6–.91 39.12N–.02 28.99E–.02 11–9 49 0-2
ISCJB V 21 04 14 05.5–.45 39.12N–.03 29.00E–.04 4–7 ¶16854250
DDA V 21 04 14 05.7 39.10N 29.02E 7 2.5L
ISK V 21 04 14 05.2 39.12N 29.02E 9 2.4L
CSEM V 21 04 14 05.8–.08 39.12N 29.00E 8 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=117.0.
ISC V 21 04 43 01.2–.97 39.10N–.02 29.01E–.01 7–9 144 0-3
ISK V 21 04 43 00.6 39.10N 29.03E 9 3.3L ¶16854253
DDA V 21 04 43 00.7 39.11N 29.01E 10 3.5L
CSEM V 21 04 43 01.0–.07 39.11N 29.02E 5 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=104.0.
ISC V 21 04 48 50.8–1.1 39.10N–.03 28.97E–.03 11–11 36 0-2
ISK V 21 04 48 49.9 39.09N 28.99E 10 2.4L ¶16854254
ISCJB V 21 04 48 50.5–.57 39.12N–.03 28.97E–.05 6–6 2.4L
CSEM V 21 04 48 50.9–.11 39.11N 28.98E 12 2.5
DDA V 21 04 48 52.9 39.04N 28.98E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.5km az=176.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=90.0.
ISC V 21 05 09 03.8–.87 39.09N–.02 29.00E–.02 9 65 0-2
DDA V 21 05 09 03.5 39.12N 29.00E 7 3.0L ¶16854257
ISK V 21 05 09 03.9 39.08N 28.93E 7 2.8
ISCJB V 21 05 09 04.3–.37 39.08N–.03 28.96E–.04 9 2.8
CSEM V 21 05 09 04.2–.11 39.10N 28.97E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=24.7.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=90.0.
ISC V 21 05 20 16.5–.88 39.08N–.02 29.10E–.03 9 47 0-2
ISCJB V 21 05 20 16.8–.44 39.06N–.03 29.07E–.04 9 ¶16854259
CSEM V 21 05 20 16.8–.16 39.08N 29.08E 5 2.7L
DDA V 21 05 20 16.8 39.10N 29.08E 7 2.7L
ISK V 21 05 20 16.1 39.06N 29.09E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=28.2.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.6km az=102.0.
ISC V 21 05 49 14.3–.95 39.12N–.03 29.11E–.03 14–9 38 0-2
ISK V 21 05 49 13.5 39.11N 29.16E 5 2.3L ¶16854269
ISCJB V 21 05 49 14.1–.49 39.13N–.03 29.11E–.04 5–8 2.3L
CSEM V 21 05 49 14.3–.11 39.12N 29.13E 8 2.5
DDA V 21 05 49 14.4 39.11N 29.11E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=32.5.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=101.0.
ISC V 21 06 05 47.0–1.0 39.12N–.03 29.07E–.03 8–9 49 0-2
ISCJB V 21 06 05 46.8–.55 39.11N–.03 29.06E–.04 5–7 ¶16854272
ISK V 21 06 05 46.3 39.11N 29.08E 8 2.3L
DDA V 21 06 05 46.7 39.10N 29.09E 7 2.6
CSEM V 21 06 05 47.2–.15 39.12N 29.07E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=33.4.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=99.0.
ISC V 21 06 38 55.2–.95 39.13N–.03 29.03E–.03 11–9 33 0-2
ISK V 21 06 38 54.3 39.11N 29.04E 9 2.2L ¶16854289
ISCJB V 21 06 38 55.0–.51 39.13N–.03 29.03E–.04 11–5 2.2L
CSEM V 21 06 38 55.1–.10 39.12N 29.03E 12 2.5
DDA V 21 06 38 56.0 39.05N 29.06E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=41.7.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=1.9km az=120.0.
ISC V 21 06 40 34.4–.90 39.12N–.02 29.10E–.02 13–8 46 0-2
ISK V 21 06 40 33.7 39.12N 29.12E 10 2.3L ¶16854290
ISCJB V 21 06 40 34.1–.48 39.12N–.03 29.10E–.04 10–4 2.3L
CSEM V 21 06 40 34.1–.06 39.12N 29.10E 10 2.6
DDA V 21 06 40 34.1 39.12N 29.09E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=16.6.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=97.0.
ISC V 21 07 16 53.9–.87 39.09N–.03 29.05E–.03 16–7 35 0-1
ISK V 21 07 16 53.2 39.13N 29.00E 7 2.0L ¶16854302
ISCJB V 21 07 16 54.0–.49 39.12N–.03 29.04E–.04 8–6 2.0L
CSEM V 21 07 16 54.2–.12 39.11N 29.04E 10 2.6L
DDA V 21 07 16 54.3 39.08N 29.05E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=43.9.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=101.0.
ISC V 21 08 03 44.0–.95 39.05N–.02 29.08E–.03 13–9 40 0-2
ISCJB V 21 08 03 44.3–.45 39.08N–.03 29.04E–.03 3–10 ¶16854318
CSEM V 21 08 03 44.6–.12 39.07N 29.05E 5 2.5
ISK V 21 08 03 44.1 39.09N 29.06E 6 2.3L
DDA V 21 08 03 44.6 39.04N 29.05E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=38.2.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=89.0.
ISC V 21 08 04 45.8–.94 39.08N–.02 29.04E–.02 10–8 44 0-2
ISCJB V 21 08 04 45.5–.47 39.08N–.03 29.04E–.04 6–5 ¶16854319
CSEM V 21 08 04 45.7–.09 39.08N 29.03E 8 2.5
ISK V 21 08 04 45.4 39.09N 29.08E 10 2.4L
DDA V 21 08 04 45.5 39.07N 29.04E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=43.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=107.0.
ISC V 21 08 06 06.8–.91 39.12N–.02 29.10E–.02 17–9 44 0-2
ISK V 21 08 06 06.4 39.11N 29.10E 10 2.4L ¶16854320
ISCJB V 21 08 06 07.0–.47 39.11N–.03 29.09E–.04 10–5 2.4L
CSEM V 21 08 06 07.1–.07 39.12N 29.09E 10 2.6
DDA V 21 08 06 07.5 39.07N 29.10E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=34.9.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=105.0.
ISC V 21 09 35 48.3–1.2 39.09N–.02 42.34E–.02 7–11 68 0-2
ISN V 21 09 35 40.7–2.3 39.22N 42.35E 36–999 3.4L ¶16596573
ISCJB V 21 09 35 47.9–.74 39.11N–.03 42.33E–.03 3–6 3.4L
ISK V 21 09 35 47.9 39.09N 42.31E 9 3.5
DDA V 21 09 35 47.4 39.09N 42.38E 3 3.4L
CSEM V 21 09 35 47.9–.23 39.11N 42.34E 2 3.4L
NSSP V 21 09 35 50.1 39.10N 42.28E 5 3.5s
ISC Event type ke.
ISN Error ellipse: s-maj=496.6km s-min=140.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=18.7.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=13.0.
ISC V 21 10 04 26.3–.88 39.11N–.02 28.99E–.02 14–7 54 0-2
ISCJB V 21 10 04 26.3–.45 39.11N–.03 29.00E–.04 4–6 ¶16854329
DDA V 21 10 04 26.2 39.14N 29.00E 7 2.8
CSEM V 21 10 04 26.5–.10 39.12N 29.00E 5 2.8
ISK V 21 10 04 26.2 39.11N 29.01E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=139.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=114.0.
ISC V 21 10 35 58.3–1.0 39.13N–.02 29.14E–.02 5–10 52 0-2
ISK V 21 10 35 57.6 39.10N 29.20E 8 2.5L ¶16854331
DDA V 21 10 35 57.9 39.15N 29.13E 7 2.8L
CSEM V 21 10 35 58.0–.13 39.13N 29.15E 5 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=88.0.
ISC V 21 10 36 58.7–.92 39.11N–.02 29.05E–.02 11–9 54 0-2
CSEM V 21 10 36 58.8–.10 39.11N 29.04E 2 2.6 ¶16854332
ISK V 21 10 36 58.2 39.08N 29.08E 5 2.6L
DDA V 21 10 36 58.4 39.12N 29.03E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=109.0.
DDA V 21 10 51 27.8 39.08N 29.00E 7 2.1
CSEM V 21 10 51 27.8 39.08N 29.00E 7 2.1 ¶601585019
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 11 16 47.4–.96 39.11N–.02 29.09E–.02 15–8 167 0-7
DDA V 21 11 16 46.9 39.11N 29.12E 19 3.1L ¶16854334
ISK V 21 11 16 46.9 39.13N 29.08E 4 3.5L
ISCJB V 21 11 16 47.7–.54 39.12N–.02 29.04E–.03 12–4 3.5L
CSEM V 21 11 16 48.0–.10 39.10N 29.05E 10 3.1L
THE V 21 11 16 51.3 39.00N 28.80E 16–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.0km az=176.2.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=80.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=181.0.
ISC V 21 11 38 21.5–.91 39.13N–.02 29.09E–.02 11–8 88 0-2
ISK V 21 11 38 20.9 39.12N 29.08E 10 2.8L ¶16854337
DDA V 21 11 38 21.1 39.11N 29.09E 8 3.4
CSEM V 21 11 38 21.3–.08 39.13N 29.10E 5 3.4
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=137.0.
ISC V 21 11 54 12.4–1.2 39.14N–.03 29.05E–.04 8–13 35 0-2
ISK V 21 11 54 12.8 39.20N 28.94E 6 2.6 ¶16854340
ISCJB V 21 11 54 13.5–.51 39.12N–.04 29.08E–.05 19–9 2.6
DDA V 21 11 54 13.5 39.09N 29.11E 7 2.5
CSEM V 21 11 54 13.2–.27 39.11N 29.07E 15 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.9km az=166.2.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.9km az=93.0.
DDA V 21 12 15 59.7 39.07N 29.03E 7 2.3
¶16854342
DDA Event type ke.
DDA V 21 12 16 27.8 39.07N 29.07E 7 2.3
CSEM V 21 12 16 27.8 39.07N 29.07E 7 2.3 ¶601585033
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 14 25 06.3–1.1 39.10N–.03 29.10E–.03 11–10 43 0-2
ISK V 21 14 25 05.9 39.12N 29.13E 6 2.6L ¶16854346
ISCJB V 21 14 25 06.8–.54 39.13N–.03 29.12E–.04 9–5 2.6L
CSEM V 21 14 25 06.9–.10 39.12N 29.13E 10 2.4
DDA V 21 14 25 06.9 39.11N 29.11E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.9km az=154.3.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=72.0.
ISC V 21 14 49 51.2–1.0 39.15N–.02 28.98E–.03 19–2 40 0-1
ISK V 21 14 49 51.3 39.14N 29.03E 5 2.7 ¶16854349
CSEM V 21 14 49 51.6–.18 39.15N 28.98E 5 2.5
DDA V 21 14 49 52.4 39.09N 28.99E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=98.0.
ISC V 21 15 09 29.6–.88 39.13N–.02 29.01E–.02 15–8 47 0-2
ISK V 21 15 09 28.9 39.14N 29.02E 9 2.7 ¶16854350
ISCJB V 21 15 09 29.5–.47 39.14N–.03 29.01E–.04 10–5 2.7
CSEM V 21 15 09 29.6–.08 39.13N 29.01E 10 2.3
DDA V 21 15 09 29.9 39.10N 29.02E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=28.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=106.0.
ISC V 21 15 13 33.4–.91 39.11N–.03 29.06E–.03 13–8 38 0-2
ISK V 21 15 13 32.8 39.10N 29.12E 10 2.6L ¶16854352
ISCJB V 21 15 13 33.2–.52 39.11N–.03 29.07E–.04 9–5 2.6L
CSEM V 21 15 13 33.2–.10 39.13N 29.05E 8 2.3
DDA V 21 15 13 33.6 39.08N 29.07E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=38.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=117.0.
ISC V 21 15 33 15.5–1.0 39.13N–.03 28.99E–.02 4–10 65 0-2
ISK V 21 15 33 14.9 39.10N 29.05E 5 2.8 ¶16854354
ISCJB V 21 15 33 15.1–.50 39.11N–.03 29.01E–.03 2–6 2.8
CSEM V 21 15 33 15.3–.14 39.11N 29.01E 2 2.7L
DDA V 21 15 33 15.0 39.11N 28.99E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.0km az=157.9.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=143.0.
ISC V 21 15 45 58.3–.94 39.09N–.03 29.05E–.03 12–8 34 0-1
ISCJB V 21 15 45 58.4–.56 39.12N–.03 29.02E–.04 10–5 ¶16854357
DDA V 21 15 45 58.5 39.07N 29.03E 7 2.3
CSEM V 21 15 45 58.3–.09 39.13N 29.01E 8 2.3
ISK V 21 15 45 58.3 39.14N 29.06E 11 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=40.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=101.0.
ISC V 21 15 57 55.0–1.0 39.11N–.02 29.08E–.03 12–12 35 0-2
ISCJB V 21 15 57 55.0–.51 39.11N–.03 29.09E–.04 5–7 ¶16854362
DDA V 21 15 57 54.6 39.12N 29.08E 7 2.5
CSEM V 21 15 57 55.1–.14 39.11N 29.08E 5 2.5
ISK V 21 15 57 55.7 39.16N 29.10E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=145.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=103.0.
ISC V 21 16 14 17.6–.98 39.10N–.03 29.09E–.02 9–9 41 0-2
ISCJB V 21 16 14 17.4–.49 39.09N–.04 29.09E–.03 6–7 ¶16854365
CSEM V 21 16 14 17.6–.10 39.11N 29.09E 5 2.4
ISK V 21 16 14 17.4 39.12N 29.10E 6 2.7
DDA V 21 16 14 17.1 39.08N 29.09E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=172.8.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=113.0.
ISC V 21 16 38 24.2–1.3 39.03N–.03 29.15E–.03 2–12 34 0-2
ISK V 21 16 38 23.9 39.03N 29.20E 5 2.6 ¶16854371
CSEM V 21 16 38 24.6–.16 39.06N 29.08E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=113.0.
ISC V 21 17 03 15.3–.86 39.13N–.02 28.96E–.02 16–6 74 0-2
DDA V 21 17 03 15.0 39.14N 28.96E 7 2.7 ¶16854375
ISK V 21 17 03 15.3 39.12N 28.96E 5 2.8
CSEM V 21 17 03 15.7–.07 39.12N 28.96E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=134.0.
ISC V 21 18 09 06.1–.91 39.16N–.03 28.97E–.02 11–9 54 0-2
ISCJB V 21 18 09 05.8–.45 39.15N–.03 28.96E–.03 9–4 ¶16854382
CSEM V 21 18 09 05.9–.09 39.15N 28.96E 10 2.8
ISK V 21 18 09 05.3 39.16N 28.98E 10 2.6L
DDA V 21 18 09 05.7 39.16N 28.97E 7 2.8

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=157.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=147.0.
ISC V 21 18 15 43.6–1.1 39.12N–.02 29.04E–.02 1–11 93 0-2
ISK V 21 18 15 42.9 39.11N 29.06E 5 3.1L ¶16854383
CSEM V 21 18 15 43.3–.07 39.12N 29.05E 2 2.8
DDA V 21 18 15 43.4 39.11N 29.01E 9 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=106.0.
ISC V 21 18 33 39.3–.93 39.13N–.03 29.02E–.02 12–8 50 0-2
ISK V 21 18 33 38.6 39.13N 29.05E 10 2.5L ¶16854385
DDA V 21 18 33 38.8 39.15N 29.00E 7 2.5
ISCJB V 21 18 33 39.0–.45 39.12N–.03 29.02E–.03 7–5 2.5
CSEM V 21 18 33 39.2–.09 39.11N 29.03E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=160.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=130.0.
ISC V 21 18 37 54.4–1.1 39.10N–.02 29.07E–.04 8–12 52 0-2
ISCJB V 21 18 37 54.6–.43 39.10N–.02 29.12E–.03 9–5 ¶16854386
CSEM V 21 18 37 54.7–.08 39.10N 29.12E 10 2.6
ISK V 21 18 37 54.1 39.10N 29.12E 9 2.5L
DDA V 21 18 37 54.8 39.08N 29.12E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=4.0km az=32.5.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=97.0.
ISC V 21 18 42 43.4–.94 39.11N–.02 29.02E–.02 10–9 85 0-2
ISCJB V 21 18 42 42.6–.46 39.11N–.03 29.03E–.03 2–5 ¶16854387
ISK V 21 18 42 42.2 39.10N 29.02E 6 3.0L
CSEM V 21 18 42 43.2–.07 39.10N 29.01E 8 2.8
DDA V 21 18 42 43.1 39.13N 29.01E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=160.9.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=137.0.
ISC V 21 18 51 21.5–1.0 39.11N–.02 29.04E–.02 6–11 81 0-8
ISCJB V 21 18 51 21.0–.42 39.10N–.02 29.04E–.03 3–5 ¶16854388
DDA V 21 18 51 20.9 39.11N 29.02E 12 2.8
ISK V 21 18 51 20.5 39.10N 29.07E 5 3.4L
CSEM V 21 18 51 21.2–.08 39.11N 29.04E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=43.8.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=109.0.
ISC V 21 20 05 46.8–.97 39.12N–.03 29.02E–.02 9–11 44 0-2
ISCJB V 21 20 05 46.6–.48 39.12N–.03 29.03E–.03 4–7 ¶16854396
CSEM V 21 20 05 46.7–.11 39.12N 29.05E 5 2.4
ISK V 21 20 05 46.5 39.11N 29.09E 9 2.7
DDA V 21 20 05 46.2 39.12N 29.03E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=5.2.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.6km az=162.0.
ISC V 21 20 20 52.4–.00 39.08N–.04 29.06E–.03 9–10 35 0-2
ISCJB V 21 20 20 52.6–.49 39.08N–.04 29.03E–.04 8–7 ¶16854397
CSEM V 21 20 20 52.6–.11 39.09N 29.02E 5 2.3
ISK V 21 20 20 52.3 39.10N 29.07E 10 2.7
DDA V 21 20 20 52.7 39.09N 29.01E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=160.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=119.0.
ISC V 21 20 23 36.1–1.0 39.11N–.02 29.05E–.02 4–11 68 0-2
ISCJB V 21 20 23 35.8–.52 39.09N–.03 29.04E–.03 3–7 ¶16854398
DDA V 21 20 23 35.5 39.12N 29.04E 7 2.8
ISK V 21 20 23 35.7 39.07N 29.06E 5 2.9L
CSEM V 21 20 23 36.1–.11 39.10N 29.04E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=157.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=125.0.
DDA V 21 20 48 52.9 39.07N 29.02E 7 2.6
CSEM V 21 20 48 52.9 39.07N 29.02E 7 2.6 ¶601585072
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 20 58 00.4–.89 39.12N–.02 29.05E–.02 15–7 68 0-2
ISK V 21 20 57 59.7 39.12N 29.01E 5 2.9L ¶16854400
CSEM V 21 20 58 00.8–.11 39.13N 29.03E 2 2.8
DDA V 21 20 58 00.2 39.11N 29.06E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=135.0.
ISC V 21 21 14 35.5–.93 39.13N–.02 29.08E–.02 12–8 68 0-2
ISK V 21 21 14 35.2 39.15N 29.03E 5 2.8 ¶16854401
DDA V 21 21 14 35.5 39.13N 29.09E 7 2.7
CSEM V 21 21 14 36.0–.12 39.13N 29.06E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=125.0.
ISC V 21 21 19 39.0–.99 39.05N–.03 29.08E–.03 11–10 42 0-2
ISCJB V 21 21 19 39.4–.54 39.07N–.04 29.05E–.04 11–5 ¶16854402
DDA V 21 21 19 39.2 39.10N 29.03E 7 2.6
ISK V 21 21 19 39.0 39.06N 29.12E 13 2.2L
CSEM V 21 21 19 39.4–.14 39.08N 29.06E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.4km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=134.0.
ISC V 21 21 25 42.5–1.0 39.09N–.03 29.05E–.02 7–11 44 0-2
ISCJB V 21 21 25 42.2–.49 39.08N–.04 29.05E–.03 5–7 ¶16854403
DDA V 21 21 25 42.2 39.09N 29.05E 7 2.5
ISK V 21 21 25 42.0 39.11N 29.05E 5 2.7
CSEM V 21 21 25 42.4–.10 39.09N 29.06E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=171.8.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=137.0.
ISC V 21 21 30 13.7–1.2 39.10N–.02 29.03E–.02 0–14 85 0-2
DDA V 21 21 30 12.8 39.10N 29.04E 7 2.9 ¶16854404
CSEM V 21 21 30 13.7–.07 39.08N 29.02E 2 2.9
ISK V 21 21 30 13.0 39.10N 29.02E 2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=85.0.
ISC V 21 21 38 52.2–1.2 39.09N–.03 29.04E–.03 3–12 56 0-2
ISK V 21 21 38 51.6 39.06N 29.02E 7 2.9 ¶16854405
DDA V 21 21 38 52.0 39.08N 28.99E 7 2.1
CSEM V 21 21 38 52.1–.14 39.06N 29.02E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=110.0.
ISC V 21 21 43 09.0–1.0 39.10N–.02 29.04E–.01 6–8 227 0-55
DDA V 21 21 43 08.6 39.10N 29.05E 7 4.0L ¶16710550
ISCJB V 21 21 43 08.5–.36 39.09N–.01 29.04E–.02 5–3 3.5b
CSEM V 21 21 43 08.7–.08 39.08N 29.05E 2 4.0L
IDC V 21 21 43 08.0–1.3 39.04N 29.05E 0 3.4,3.4b
ISK V 21 21 43 08.3 39.10N 29.04E 6 3.8L,3.4b
THE V 21 21 43 09.6 39.05N 29.01E 2–1 3.4L,3.4b
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=2.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=73.0.
IDC Error ellipse: s-maj=22.6km s-min=15.7km az=166.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=109.0.
ISK V 21 21 52 28.9 39.12N 28.93E 9 2.6
CSEM V 21 21 52 28.9 39.12N 28.93E 9 2.6 ¶16854409
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 22 14 04.0–.98 39.12N–.02 29.04E–.02 8–9 91 0-2
DDA V 21 22 14 03.4 39.11N 29.04E 7 2.8 ¶16854413
ISK V 21 22 14 04.4 39.15N 29.00E 8 3.4L
CSEM V 21 22 14 04.2–.10 39.13N 29.01E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=84.0.
ISC V 21 23 07 34.9–.00 39.09N–.02 29.03E–.02 6–8 210 0-9
ISCJB V 21 23 07 34.5–.35 39.10N–.01 29.03E–.02 5–2 ¶16854423
ISK V 21 23 07 34.6 39.11N 29.02E 10 3.8L
DDA V 21 23 07 34.3 39.10N 29.00E 17 3.2
CSEM V 21 23 07 34.9–.06 39.09N 29.04E 5 3.2
THE V 21 23 07 35.9 39.07N 28.99E 1–0 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=5.4.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=94.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=71.0.
ISC V 21 23 25 24.5–1.0 39.11N–.03 29.04E–.02 6–10 72 0-2
ISCJB V 21 23 25 24.3–.43 39.08N–.03 29.04E–.03 4–5 ¶16854427
DDA V 21 23 25 24.0 39.08N 29.02E 8 2.7
ISK V 21 23 25 24.0 39.11N 29.06E 3 2.8
CSEM V 21 23 25 24.5–.09 39.10N 29.05E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=178.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=134.0.
ISC V 22 00 04 22.5–.92 39.12N–.03 29.01E–.02 11–9 45 0-2
ISCJB V 22 00 04 22.2–.44 39.11N–.03 29.01E–.03 7–5 ¶16854441
ISK V 22 00 04 22.0 39.12N 29.00E 10 2.9
CSEM V 22 00 04 22.4–.08 39.11N 29.02E 10 2.7
DDA V 22 00 04 22.3 39.09N 29.01E 11 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=153.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=156.0.
ISK V 22 00 15 27.0 39.10N 29.04E 7 2.9
CSEM V 22 00 15 27.0 39.10N 29.04E 7 2.9 ¶16854443
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 22 00 16 52.2–.98 39.09N–.02 29.06E–.02 8–10 68 0-2
ISCJB V 22 00 16 51.8–.47 39.09N–.03 29.06E–.03 2–6 ¶16854444
DDA V 22 00 16 51.4 39.10N 29.04E 7 2.9
ISK V 22 00 16 51.6 39.08N 29.09E 5 2.8
CSEM V 22 00 16 52.1–.07 39.08N 29.06E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=159.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=117.0.
ISC V 22 00 30 18.5–1.1 39.14N–.02 29.04E–.02 4–14 62 0-2
DDA V 22 00 30 17.8 39.14N 29.02E 7 2.9 ¶16854450
ISK V 22 00 30 17.7 39.12N 29.03E 3 3.1,2.9L
ISCJB V 22 00 30 18.1–.56 39.13N–.03 29.03E–.04 2–7 3.1,2.9L
CSEM V 22 00 30 18.4–.06 39.13N 29.03E 2 2.9,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=141.4.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=109.0.
ISC V 22 01 19 46.7–1.1 39.11N–.02 29.05E–.02 2–13 70 0-2
DDA V 22 01 19 46.0 39.13N 29.05E 7 2.7 ¶16854459
ISCJB V 22 01 19 46.2–.50 39.11N–.03 29.05E–.03 1–6 2.7
ISK V 22 01 19 46.4 39.11N 29.04E 6 3.0
CSEM V 22 01 19 46.5–.05 39.11N 29.05E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=174.6.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.2km az=119.0.
ISC V 22 01 43 39.7–.99 39.16N–.04 29.09E–.03 9 32 0-2
DDA V 22 01 43 38.9 39.17N 29.08E 7 2.7 ¶16854463
ISCJB V 22 01 43 39.6–.66 39.15N–.05 29.10E–.04 9 2.7
CSEM V 22 01 43 39.7–.29 39.15N 29.12E 5 2.6
ISK V 22 01 43 40.7 39.28N 29.13E 3 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.4km az=167.8.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.5km az=167.0.
ISK V 22 02 04 30.4 39.18N 28.97E 6 2.7
CSEM V 22 02 04 30.4 39.18N 28.97E 6 2.7 ¶16854468
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 22 02 08 39.4–1.2 39.12N–.02 29.02E–.02 1–14 68 0-2
DDA V 22 02 08 38.6 39.14N 29.02E 7 3.1 ¶16854469
ISK V 22 02 08 38.4 39.12N 29.02E 5 3.2L
CSEM V 22 02 08 39.4–.10 39.11N 29.02E 2 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=125.0.
ISC V 22 02 21 18.6–1.0 39.14N–.03 29.00E–.02 7–11 51 0-2
ISCJB V 22 02 21 18.1–.49 39.13N–.04 29.00E–.03 4–7 ¶16854472
DDA V 22 02 21 18.0 39.13N 29.01E 7 2.6
ISK V 22 02 21 18.0 39.14N 28.99E 6 2.9
CSEM V 22 02 21 18.3–.08 39.13N 29.00E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.4km az=172.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=139.0.
ISC V 22 02 31 53.6–.94 38.41N–.02 39.02E–.02 9–6 65 0-3
ISK V 22 02 31 52.8 38.42N 39.03E 5 3.0 ¶16854473
DDA V 22 02 31 52.4 38.42N 38.99E 16 3.1
IASPE V 22 02 31 53.3–.99 38.43N–.03 39.01E–.03 12–6 3.1
ISCJB V 22 02 31 53.1–.51 38.41N–.03 39.01E–.04 6–4 3.1
CSEM V 22 02 31 53.1–.19 38.42N 39.01E 2 3.1
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.2km s-min=3.9km az=7.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=170.3.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.4km az=7.0.
ISC V 22 02 54 43.2–.98 39.12N–.02 28.99E–.02 7–11 62 0-2
DDA V 22 02 54 42.5 39.12N 28.99E 10 2.8 ¶16854476
ISCJB V 22 02 54 43.0–.43 39.12N–.03 28.99E–.03 7–5 2.8
CSEM V 22 02 54 43.3–.11 39.13N 28.99E 5 2.8
ISK V 22 02 54 43.3 39.16N 29.00E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.2km az=161.4.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=105.0.
ISC V 22 02 58 44.5–.88 39.04N–.03 29.14E–.03 9 44 0-2
ISCJB V 22 02 58 43.8–.54 39.01N–.04 29.17E–.05 9 ¶16854477
ISK V 22 02 58 43.6 39.04N 29.16E 9 2.5L,2.5
CSEM V 22 02 58 44.1–.09 39.02N 29.16E 10 2.3,2.5
DDA V 22 02 58 46.4 38.95N 29.04E 7 2.3,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=137.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=134.0.
ISC V 22 03 09 46.8–.95 39.10N–.03 29.05E–.02 10–9 43 0-2
ISCJB V 22 03 09 46.5–.48 39.09N–.03 29.05E–.04 7–6 ¶16854482
DDA V 22 03 09 46.5 39.09N 29.05E 7 2.7
ISK V 22 03 09 46.3 39.09N 29.07E 9 2.7
CSEM V 22 03 09 46.7–.09 39.10N 29.06E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.7km az=15.5.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=97.0.
ISC V 22 03 15 30.8–1.0 39.10N–.02 29.02E–.02 4–9 123 0-7
DDA V 22 03 15 29.8 39.12N 29.02E 7 3.2 ¶16854483
ISCJB V 22 03 15 30.4–.39 39.10N–.02 29.02E–.03 4–3 3.2
ISK V 22 03 15 30.5 39.09N 29.04E 7 3.4L
CSEM V 22 03 15 30.7–.12 39.08N 29.03E 2 3.2
THE V 22 03 15 32.7 39.01N 28.84E 0–0 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=42.5.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=121.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=94.0.
ISC V 22 03 27 05.8–.97 39.08N–.03 29.07E–.03 13–9 28 0-1
ISCJB V 22 03 27 06.0–.57 39.10N–.05 29.04E–.05 10–7 ¶16854486
ISK V 22 03 27 05.1 39.05N 29.14E 17 2.5
DDA V 22 03 27 06.3 39.09N 29.04E 7 2.7
CSEM V 22 03 27 06.0–.12 39.10N 29.04E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.0km az=150.4.

CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=128.0.
ISC V 22 03 40 06.0–1.0 39.14N–.03 29.03E–.02 6–13 58 0-2
ISK V 22 03 40 04.9 39.15N 29.04E 2 2.8 ¶16854488
ISCJB V 22 03 40 05.5–.48 39.13N–.04 29.02E–.04 4–6 2.8
CSEM V 22 03 40 05.7–.09 39.14N 29.03E 5 2.7
DDA V 22 03 40 05.5 39.10N 29.03E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.8km az=151.2.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=136.0.
ISC V 22 04 01 19.1–.94 39.13N–.02 29.08E–.02 13–9 68 0-2
ISCJB V 22 04 01 19.4–.44 39.11N–.03 29.10E–.03 7–4 ¶16854493
CSEM V 22 04 01 19.5–.12 39.12N 29.08E 5 2.9
ISK V 22 04 01 19.1 39.14N 29.10E 5 2.9
DDA V 22 04 01 19.0 39.13N 29.09E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=124.0.
ISC V 22 04 06 32.1–.97 39.12N–.02 29.01E–.02 8–12 54 0-2
ISCJB V 22 04 06 31.6–.45 39.11N–.03 29.01E–.04 3–7 ¶16854494
CSEM V 22 04 06 31.9–.07 39.12N 29.01E 5 2.7
ISK V 22 04 06 31.6 39.12N 29.03E 6 2.8
DDA V 22 04 06 31.7 39.09N 29.01E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=154.9.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=96.0.
ISC V 22 04 08 19.8–1.1 39.14N–.03 29.02E–.02 3–13 64 0-2
ISCJB V 22 04 08 19.5–.46 39.12N–.03 29.02E–.03 4–6 ¶16854495
CSEM V 22 04 08 19.8–.09 39.12N 29.02E 5 2.7
ISK V 22 04 08 19.6 39.13N 29.03E 8 2.9
DDA V 22 04 08 19.4 39.12N 29.03E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=14.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=105.0.
ISC V 22 04 16 35.3–.95 39.11N–.02 29.02E–.02 10–11 36 0-1
ISCJB V 22 04 16 35.0–.48 39.10N–.03 29.02E–.04 7–6 ¶16854498
ISK V 22 04 16 34.8 39.12N 29.04E 8 2.7
CSEM V 22 04 16 35.2–.04 39.11N 29.02E 8 2.8
DDA V 22 04 16 35.2 39.10N 29.02E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=111.0.
ISC V 22 04 38 02.7–.86 39.14N–.02 29.00E–.02 17–7 71 0-2
ISK V 22 04 38 02.8 39.14N 29.01E 5 2.9 ¶16854499
DDA V 22 04 38 02.6 39.14N 29.00E 7 3.3L
CSEM V 22 04 38 03.3–.08 39.13N 28.99E 5 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=118.0.
ISC V 22 04 43 15.2–.92 39.12N–.02 29.00E–.02 11–9 58 0-2
ISCJB V 22 04 43 14.9–.44 39.12N–.03 28.99E–.03 6–5 ¶16854500
ISK V 22 04 43 14.8 39.12N 29.02E 9 2.8
DDA V 22 04 43 14.7 39.11N 28.99E 7 3.1L
CSEM V 22 04 43 15.2–.05 39.11N 28.99E 8 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.1km az=139.0.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.2km az=114.0.
ISC V 22 05 24 03.8–1.0 39.11N–.02 29.01E–.02 6–13 50 0-2
DDA V 22 05 24 03.2 39.11N 29.01E 7 2.7L ¶16854503
ISK V 22 05 24 03.9 39.08N 29.10E 6 2.7
CSEM V 22 05 24 04.1–.12 39.10N 29.03E 2 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=98.0.
ISC V 22 05 25 49.6–.94 39.11N–.03 29.09E–.03 14–9 46 0-2
ISCJB V 22 05 25 49.7–.52 39.14N–.05 29.05E–.04 4–7 ¶16854504
CSEM V 22 05 25 49.9–.08 39.13N 29.07E 8 2.6L
ISK V 22 05 25 49.6 39.14N 29.07E 8 2.8
DDA V 22 05 25 49.5 39.13N 29.06E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.5km az=164.7.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=144.0.
ISC V 22 05 37 34.0–1.0 39.11N–.03 29.00E–.02 6–10 45 0-2
ISCJB V 22 05 37 33.6–.49 39.11N–.03 29.00E–.03 2–7 ¶16854505
CSEM V 22 05 37 33.9–.11 39.11N 29.01E 5 2.9L
ISK V 22 05 37 33.8 39.11N 29.04E 8 2.4
DDA V 22 05 37 33.4 39.12N 29.00E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.2km az=163.3.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=140.0.
ISC V 22 05 39 10.0–1.0 39.05N–.04 29.09E–.03 11–10 40 0-2
ISK V 22 05 39 09.7 39.06N 29.12E 9 2.6 ¶16854506
ISCJB V 22 05 39 10.4–.52 39.10N–.05 29.05E–.04 4–7 2.6
CSEM V 22 05 39 10.4–.10 39.09N 29.06E 8 2.7L
DDA V 22 05 39 10.3 39.11N 29.04E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=3.7km az=148.2.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=1.6km az=138.0.
ISC V 22 05 41 40.6–.85 39.11N–.03 29.17E–.03 9 58 0-2
DDA V 22 05 41 38.2 38.97N 29.20E 7 2.9L ¶16854507
ISCJB V 22 05 41 40.6–.44 39.09N–.03 29.16E–.04 9 2.9L
CSEM V 22 05 41 40.3–.14 39.10N 29.17E 2 2.9L
ISK V 22 05 41 40.1 39.10N 29.23E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.4km az=143.6.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=128.0.
ISC V 22 05 51 53.4–.92 39.10N–.03 29.04E–.02 12–8 45 0-2
CSEM V 22 05 51 53.7–.15 39.10N 29.06E 2 2.9L ¶16854508
ISK V 22 05 51 53.4 39.11N 29.08E 5 2.6
DDA V 22 05 51 53.2 39.07N 29.08E 7 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=134.0.
ISC V 22 06 05 29.6–.96 39.12N–.03 29.01E–.04 17–10 26 0-1
ISCJB V 22 06 05 29.7–.56 39.11N–.04 29.03E–.05 12–6 ¶16854509
CSEM V 22 06 05 29.7–.08 39.12N 29.01E 10 2.7L
ISK V 22 06 05 29.0 39.13N 29.00E 7 2.4
DDA V 22 06 05 30.1 39.08N 29.03E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.5km az=137.6.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.5km az=126.0.
ISC V 22 06 11 22.3–1.1 39.17N–.03 28.99E–.03 19–3 38 0-2
ISK V 22 06 11 22.3 39.14N 28.97E 6 2.7 ¶16854510
ISCJB V 22 06 11 23.1–.50 39.12N–.04 29.01E–.05 11–5 2.7
CSEM V 22 06 11 23.1–.12 39.13N 28.99E 8 2.9L
DDA V 22 06 11 23.2 39.13N 29.02E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.2km az=44.7.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=121.0.
ISC V 22 06 20 23.0–.92 39.08N–.03 29.08E–.03 13–8 26 0-1
ISCJB V 22 06 20 22.9–.58 39.08N–.03 29.08E–.05 11–6 ¶16854511
CSEM V 22 06 20 22.9–.15 39.08N 29.08E 10 2.6L
ISK V 22 06 20 22.6 39.07N 29.09E 16 2.4
DDA V 22 06 20 22.7 39.10N 29.07E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=29.6.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=118.0.
ISC V 22 06 29 34.3–.95 39.15N–.02 29.14E–.02 10–11 62 0-2
ISCJB V 22 06 29 33.8–.46 39.15N–.03 29.14E–.03 4–5 ¶16854512
ISK V 22 06 29 33.8 39.16N 29.19E 8 2.9
DDA V 22 06 29 33.8 39.16N 29.13E 7 2.8L
CSEM V 22 06 29 34.0–.07 39.15N 29.15E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=153.9.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=103.0.

ISK V 22 06 39 04.2 37.07N 28.29E 27 2.3
¶16854513
ISC V 22 06 39 39.7–.90 39.13N–.02 28.99E–.02 14–8 48 0-2
ISCJB V 22 06 39 39.6–.46 39.13N–.02 28.99E–.04 5–5 ¶16854514
DDA V 22 06 39 39.4 39.18N 28.99E 7 2.9L
ISK V 22 06 39 39.1 39.07N 29.08E 10 2.7
CSEM V 22 06 39 40.0–.13 39.13N 28.99E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=21.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=96.0.
ISC V 22 06 50 19.6–.91 39.12N–.02 29.02E–.02 12–9 46 0-2
ISK V 22 06 50 18.8 39.09N 29.08E 9 2.6 ¶16854515
ISCJB V 22 06 50 19.3–.46 39.11N–.03 29.02E–.04 6–5 2.6
DDA V 22 06 50 19.4 39.10N 29.02E 7 2.7L
CSEM V 22 06 50 19.5–.07 39.12N 29.02E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.0km az=32.4.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=102.0.
ISC V 22 07 04 46.0–1.1 39.08N–.02 29.08E–.02 4–13 65 0-2
CSEM V 22 07 04 45.8–.11 39.07N 29.08E 2 3.5L ¶16854516
ISK V 22 07 04 45.2 39.07N 29.11E 4 2.8
DDA V 22 07 04 45.5 39.09N 29.06E 7 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=122.0.
ISC V 22 07 08 30.0–.98 39.11N–.03 29.10E–.02 9 46 0-2
DDA V 22 07 08 29.3 39.09N 29.10E 7 3.0L ¶16854517
ISCJB V 22 07 08 30.2–.60 39.10N–.05 29.09E–.04 9 3.0L
CSEM V 22 07 08 30.2–.25 39.11N 29.06E 2 3.0L
ISK V 22 07 08 33.3 39.33N 29.11E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.3km az=162.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=143.0.
ISC V 22 07 10 09.3–.87 39.08N–.02 29.08E–.02 17–7 78 0-2
DDA V 22 07 10 09.4 39.10N 29.06E 7 3.6L ¶16854518
ISK V 22 07 10 09.2 39.07N 29.06E 5 3.0
CSEM V 22 07 10 10.3–.09 39.08N 29.06E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=109.0.
ISC V 22 07 35 15.4–1.2 39.12N–.02 29.07E–.03 0–15 44 0-2
DDA V 22 07 35 14.7 39.11N 29.06E 7 2.6L ¶16854519
ISK V 22 07 35 14.8 39.11N 29.11E 7 2.8
CSEM V 22 07 35 15.3–.13 39.12N 29.06E 2 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=95.0.
ISC V 22 07 45 21.0–1.0 39.14N–.02 29.09E–.02 5–12 84 0-2
ISCJB V 22 07 45 20.4–.45 39.14N–.03 29.08E–.03 2–5 ¶16854520
CSEM V 22 07 45 20.8–.08 39.13N 29.09E 2 3.3L
ISK V 22 07 45 20.6 39.14N 29.10E 5 2.8
DDA V 22 07 45 20.1 39.14N 29.08E 9 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=175.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=114.0.
ISC V 22 07 54 28.2–1.0 39.07N–.04 29.15E–.04 12–13 24 0-2
ISK V 22 07 54 27.7 39.06N 29.19E 5 2.2 ¶16854521
ISCJB V 22 07 54 28.7–.61 39.10N–.05 29.11E–.05 4–9 2.2
DDA V 22 07 54 28.6 39.10N 29.11E 7 2.6L
CSEM V 22 07 54 28.7–.11 39.09N 29.12E 5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.8km az=151.4.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.1km az=137.0.
ISC V 22 07 54 51.6–1.2 39.18N–.03 29.02E–.03 6–12 32 0-1
ISK V 22 07 54 51.2 39.18N 28.97E 10 2.3 ¶16854524
ISCJB V 22 07 54 52.5–.53 39.13N–.03 29.06E–.04 10–5 2.3
CSEM V 22 07 54 52.1–.21 39.16N 29.03E 15 2.7L
DDA V 22 07 54 52.7 39.12N 29.05E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=35.2.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=115.0.
DDA V 22 08 14 15.4 39.09N 28.99E 7 2.7L
¶602861966
ISC V 22 08 24 30.9–.99 39.13N–.03 29.05E–.04 14–15 24 0-1
ISCJB V 22 08 24 31.4–.60 39.11N–.04 29.09E–.05 10–6 ¶16854526
DDA V 22 08 24 31.5 39.09N 29.09E 7 2.6L
ISK V 22 08 24 31.5 39.12N 29.17E 13 2.3
CSEM V 22 08 24 31.3–.09 39.12N 29.09E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.1km az=139.3.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=123.0.
ISC V 22 08 30 35.8–.97 39.09N–.03 29.08E–.03 14–11 30 0-1
ISK V 22 08 30 35.4 39.08N 29.10E 5 2.3 ¶16854527
CSEM V 22 08 30 36.2–.09 39.11N 29.05E 2 2.7L
DDA V 22 08 30 36.1 39.09N 29.05E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=127.0.
ISC V 22 08 32 35.7–1.0 39.11N–.02 29.11E–.03 8–12 40 0-1
CSEM V 22 08 32 35.6–.11 39.11N 29.10E 2 2.7L ¶16854528
ISK V 22 08 32 35.7 39.13N 29.14E 8 2.8
DDA V 22 08 32 35.0 39.12N 29.10E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=100.0.
ISC V 22 08 41 21.2–.91 39.13N–.02 29.11E–.03 13–9 45 0-21
ISK V 22 08 41 20.7 39.13N 29.08E 7 2.6L ¶16854530
DDA V 22 08 41 20.8 39.13N 29.11E 6 2.7L
ISCJB V 22 08 41 21.1–.47 39.13N–.03 29.10E–.04 9–5 2.7L
CSEM V 22 08 41 21.2–.06 39.13N 29.11E 8 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=33.6.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=107.0.
ISC V 22 08 43 04.6–1.1 37.14N–.03 28.60E–.03 16–10 29 0-1
ISK V 22 08 43 03.9 37.15N 28.62E 18 2.7 ¶16854531
ISCJB V 22 08 43 04.8–.66 37.18N–.04 28.61E–.05 8–7 2.7
CSEM V 22 08 43 04.8–.22 37.13N 28.61E 20 2.7
DDA V 22 08 43 05.9 37.13N 28.50E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=6.7km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.8km az=49.0.
ISC V 22 09 05 03.3–1.0 39.12N–.02 29.01E–.02 7–12 69 0-2
DDA V 22 09 05 02.6 39.11N 29.01E 7 3.4L ¶16854533
ISK V 22 09 05 02.5 39.10N 28.99E 5 2.9
CSEM V 22 09 05 02.9–.07 39.11N 29.01E 2 3.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=115.0.
ISC V 22 09 14 00.5–1.0 39.09N–.02 29.04E–.02 5–9 148 0-6
ISCJB V 22 09 14 00.3–.39 39.11N–.02 29.02E–.02 5–3 ¶601585108
DDA V 22 09 14 00.1 39.10N 29.05E 7 3.6L
ISK V 22 09 14 00.0 39.09N 29.03E 5 3.3L,3.3
CSEM V 22 09 14 00.4–.05 39.09N 29.04E 2 3.6L,3.3
THE V 22 09 14 02.0 39.11N 28.99E 2–2 3.2L,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=155.9.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=106.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=129.0.
ISC V 22 09 19 57.8–1.2 39.09N–.02 29.02E–.02 1–16 79 0-2
CSEM V 22 09 19 57.5–.11 39.09N 29.02E 0–1 2.8L ¶16854535
ISK V 22 09 19 57.5 39.08N 28.99E 7 3.1
DDA V 22 09 19 57.0 39.08N 29.03E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=30.0.
ISC V 22 09 21 26.2–1.0 39.09N–.03 29.07E–.03 7–13 46 0-2
ISCJB V 22 09 21 25.8–.55 39.09N–.04 29.06E–.04 1–8 ¶16854536
CSEM V 22 09 21 25.9–.10 39.08N 29.07E 3–1 2.8L

ISK V 22 09 21 25.3 39.06N 29.11E 6 2.9
DDA V 22 09 21 25.7 39.08N 29.06E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.1km az=145.6.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=1.8km az=139.0.
ISC V 22 09 51 01.7–.92 39.15N–.03 29.02E–.03 15–9 37 0-1
ISK V 22 09 51 01.7 39.16N 28.99E 9 2.6 ¶16854538
ISCJB V 22 09 51 02.0–.50 39.13N–.03 29.01E–.04 9–5 2.6
CSEM V 22 09 51 02.0–.11 39.14N 29.01E 8 2.7L
DDA V 22 09 51 02.2 39.11N 29.03E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=38.2.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=99.0.
ISC V 22 10 02 49.8–1.0 39.11N–.02 29.09E–.02 6–11 78 0-2
ISCJB V 22 10 02 49.4–.46 39.11N–.02 29.11E–.03 1–6 ¶601585119
CSEM V 22 10 02 49.7–.08 39.11N 29.11E 2 2.9L
ISK V 22 10 02 49.6 39.12N 29.14E 6 3.0
DDA V 22 10 02 49.2 39.10N 29.10E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.9km az=19.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=97.0.
ISC V 22 10 18 14.5–1.1 39.11N–.03 29.02E–.03 14–11 28 0-1
ISCJB V 22 10 18 14.5–.56 39.11N–.03 29.02E–.04 11–5 ¶601585125
DDA V 22 10 18 14.3 39.12N 29.01E 7 2.7L
CSEM V 22 10 18 14.7–.08 39.11N 29.02E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=151.8.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=119.0.
ISC V 22 10 32 59.1–.99 39.12N–.02 29.01E–.02 6–8 152 0-9
ISCJB V 22 10 32 58.7–.38 39.12N–.02 28.99E–.02 7–3 ¶16854541
DDA V 22 10 32 58.4 39.11N 28.99E 7 3.5L
ISK V 22 10 32 58.7 39.14N 29.03E 7 3.3L
CSEM V 22 10 32 58.8–.10 39.11N 29.01E 2 3.5L
THE V 22 10 33 00.1 39.09N 28.93E 2–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=94.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=82.0.
ISC V 22 10 41 10.7–.95 39.11N–.03 29.04E–.03 10–9 33 0-2
ISCJB V 22 10 41 10.6–.59 39.10N–.04 29.04E–.04 6–9 ¶16854542
DDA V 22 10 41 10.2 39.09N 29.04E 7 2.7L
CSEM V 22 10 41 10.9–.20 39.12N 29.01E 5 2.7L
ISK V 22 10 41 12.0 39.21N 29.05E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=149.9.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=111.0.
DDA V 22 10 47 08.0 39.10N 29.11E 7 2.7L
¶601585132
DDA V 22 10 47 30.5 39.07N 29.06E 7 2.6L
CSEM V 22 10 47 30.5 39.07N 29.06E 7 2.6L ¶602861970
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 22 10 59 18.5–.91 39.07N–.02 29.06E–.02 12–9 43 0-2
ISK V 22 10 59 17.9 39.07N 29.10E 5 2.9 ¶16854544
ISCJB V 22 10 59 18.5–.44 39.09N–.03 29.05E–.04 5–7 2.9
CSEM V 22 10 59 18.7–.13 39.09N 29.06E 5 2.9L
DDA V 22 10 59 18.7 39.07N 29.06E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=137.2.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=100.0.
ISC V 22 11 09 19.5–.99 39.09N–.02 29.05E–.02 7–9 61 0-2
ISCJB V 22 11 09 19.1–.47 39.10N–.03 29.05E–.03 0–7 ¶16854546
CSEM V 22 11 09 19.4–.09 39.10N 29.06E 5 2.7
ISK V 22 11 09 19.1 39.11N 29.08E 7 2.9
DDA V 22 11 09 19.2 39.08N 29.04E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=159.7.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=117.0.
ISC V 22 11 30 39.2–1.1 39.12N–.02 29.05E–.02 3–12 98 0-2
DDA V 22 11 30 38.8 39.11N 29.04E 7 3.4L ¶16854547
ISK V 22 11 30 38.7 39.12N 29.06E 4 3.0
CSEM V 22 11 30 39.0–.12 39.12N 29.06E 0–1 3.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=111.0.
ISC V 22 11 42 52.3–.95 39.10N–.02 29.06E–.02 9–9 65 0-2
ISCJB V 22 11 42 52.0–.43 39.09N–.03 29.07E–.03 3–6 ¶16854548
ISK V 22 11 42 51.6 39.09N 29.09E 6 2.9
DDA V 22 11 42 52.0 39.08N 29.08E 7 2.9L
CSEM V 22 11 42 52.2–.07 39.10N 29.07E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=113.0.
ISC V 22 13 43 27.8–1.1 39.09N–.03 29.08E–.03 14–10 38 0-1
ISK V 22 13 43 27.9 39.10N 29.11E 6 2.3 ¶16854553
ISCJB V 22 13 43 28.3–.54 39.10N–.02 29.11E–.04 8–5 2.3
DDA V 22 13 43 28.4 39.10N 29.10E 7 2.6L
CSEM V 22 13 43 28.5–.16 39.10N 29.09E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=4.7.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=90.0.
ISC V 22 14 58 00.0–1.9 39.15N–.03 29.06E–.03 21–2 34 0-2
ISK V 22 14 57 58.4 39.12N 29.02E 8 2.6 ¶16854556
ISCJB V 22 14 57 59.9–.54 39.16N–.03 29.06E–.04 11–5 2.6
CSEM V 22 14 57 59.8–.23 39.16N 29.05E 8 2.6L
DDA V 22 14 58 00.6 39.08N 29.09E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=41.8.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.9km az=108.0.
ISC V 22 15 02 48.8–.94 39.10N–.03 29.05E–.03 9 30 0-1
ISCJB V 22 15 02 48.5–.52 39.09N–.04 29.05E–.04 9 ¶16854560
CSEM V 22 15 02 48.5–.09 39.10N 29.05E 5 2.6L
ISK V 22 15 02 48.1 39.09N 29.11E 8 2.7
DDA V 22 15 02 48.5 39.09N 29.03E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.0km az=145.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.8km az=125.0.
ISC V 22 15 31 08.2–1.1 39.10N–.03 28.99E–.03 15–10 32 0-1
ISK V 22 15 31 07.8 39.08N 29.02E 9 2.6 ¶16854564
ISCJB V 22 15 31 08.6–.55 39.12N–.03 28.98E–.04 6–7 2.6
CSEM V 22 15 31 08.6–.13 39.12N 28.97E 8 2.7L
DDA V 22 15 31 08.7 39.14N 28.99E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=116.0.
ISC V 22 15 48 43.9–1.2 39.95N–.05 35.29E–.03 18–6 21 0-1
ISK V 22 15 48 42.1 39.77N 35.29E 3 2.7 ¶16854565
ISCJB V 22 15 48 44.3–1.4 39.94N–.06 35.32E–.09 8–19 2.7
DDA V 22 15 48 44.0 39.93N 35.29E 7 2.4L
CSEM V 22 15 48 44.0–.31 39.91N 35.27E 15 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.5km az=15.7.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=5.7km az=24.0.
ISC V 22 15 50 47.3–.88 39.11N–.02 29.05E–.02 16–7 54 0-2
DDA V 22 15 50 46.9 39.11N 29.05E 7 2.7L ¶16854566
ISK V 22 15 50 47.2 39.13N 29.02E 7 2.7
CSEM V 22 15 50 47.5–.07 39.12N 29.04E 5 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=129.0.
ISC V 22 16 02 51.1–.99 39.13N–.03 29.12E–.03 9 29 0-2
DDA V 22 16 02 50.9 39.16N 29.12E 7 2.4 ¶16854569
ISK V 22 16 02 50.9 39.13N 29.17E 9 2.7
ISCJB V 22 16 02 51.0–.55 39.13N–.04 29.13E–.06 9 2.7
CSEM V 22 16 02 51.0–.09 39.13N 29.12E 6–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.4km az=20.9.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=107.0.
ISC V 22 16 05 44.6–.96 39.10N–.03 29.08E–.03 9 35 0-2
ISCJB V 22 16 05 44.9–.50 39.11N–.04 29.12E–.06 9 ¶16854570
ISK V 22 16 05 44.5 39.12N 29.15E 6 2.8
CSEM V 22 16 05 45.0–.09 39.11N 29.12E 8 2.8
DDA V 22 16 05 45.3 39.10N 29.10E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=21.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=98.0.
ISC V 22 16 31 55.4–.86 39.04N–.03 29.07E–.03 9 34 0-2
ISCJB V 22 16 31 55.7–.48 39.05N–.03 29.05E–.05 9 ¶16854572
CSEM V 22 16 31 55.8–.14 39.04N 29.07E 10 2.7
ISK V 22 16 31 55.1 39.04N 29.12E 9 2.7
DDA V 22 16 31 56.1 39.02N 29.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=25.5.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=100.0.
ISC V 22 16 41 40.2–1.0 39.13N–.02 29.01E–.02 19–2 60 0-2
DDA V 22 16 41 40.4 39.12N 29.01E 7 2.6 ¶16854574
ISK V 22 16 41 40.2 39.16N 28.98E 5 2.9
CSEM V 22 16 41 40.5–.10 39.14N 28.99E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=125.0.
ISC V 22 16 49 49.2–1.2 39.11N–.02 29.05E–.02 4–10 197 0-9
ISCJB V 22 16 49 48.6–.44 39.12N–.02 29.04E–.02 4–3 ¶16854575
CSEM V 22 16 49 48.9–.09 39.11N 29.05E 2 3.9L
THE V 22 16 49 48.9 39.12N 29.12E 0–0 3.6L
ISK V 22 16 49 48.8 39.13N 29.04E 7 3.9L
DDA V 22 16 49 48.6 39.12N 29.02E 2 3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=87.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=71.0.
ISC V 22 17 33 54.8–.93 39.08N–.03 28.96E–.03 11–8 28 0-2
ISCJB V 22 17 33 54.6–.56 39.09N–.04 28.98E–.05 8–9 ¶602861984
DDA V 22 17 33 54.3 39.08N 28.97E 7 2.6
CSEM V 22 17 33 54.7–.16 39.10N 28.98E 5 2.6
ISK V 22 17 33 55.1 39.06N 28.96E 19 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.8km az=158.1.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=110.0.
ISC V 22 17 37 27.2–.90 39.12N–.02 28.99E–.02 12–7 62 0-2
ISK V 22 17 37 26.4 39.13N 28.96E 5 2.9 ¶16854584
ISCJB V 22 17 37 27.1–.47 39.12N–.03 29.00E–.03 2–7 2.9
CSEM V 22 17 37 27.5–.11 39.12N 28.99E 5 2.8
DDA V 22 17 37 27.0 39.11N 29.03E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=7.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=103.0.
ISC V 22 17 38 34.7–.90 39.06N–.03 29.06E–.03 9 32 0-2
ISK V 22 17 38 34.9 39.08N 29.10E 9 2.6 ¶16854585
DDA V 22 17 38 35.0 39.06N 29.00E 7 2.5
ISCJB V 22 17 38 35.2–.49 39.07N–.04 29.02E–.04 9 2.5
CSEM V 22 17 38 35.3–.13 39.08N 29.02E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=142.9.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=115.0.
ISC V 22 17 39 03.5–1.1 39.05N–.03 29.05E–.02 6–11 40 0-2
DDA V 22 17 39 03.0 39.03N 29.01E 7 2.5 ¶16854588
CSEM V 22 17 39 04.0–.51 39.07N 29.09E 2 2.5
ISK V 22 17 39 06.7 39.19N 29.28E 20 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.7km s-min=8.5km az=169.0.
ISC V 22 17 42 00.2–.88 39.07N–.03 29.01E–.03 9 30 0-2
DDA V 22 17 41 59.9 39.07N 29.01E 7 2.2 ¶16854589
ISK V 22 17 41 59.6 39.08N 29.02E 6 2.7
ISCJB V 22 17 42 00.2–.50 39.06N–.04 29.02E–.05 9 2.7
CSEM V 22 17 42 00.1–.10 39.08N 29.01E 5 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.8km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.0km az=124.0.
ISC V 22 17 43 36.0–.97 39.09N–.04 29.12E–.05 9 26 0-2
ISCJB V 22 17 43 35.9–.71 39.08N–.06 29.12E–.08 9 ¶16854590
CSEM V 22 17 43 35.9–.10 39.10N 29.11E 5 2.6
ISK V 22 17 43 35.3 39.09N 29.13E 7 2.6
DDA V 22 17 43 37.8 39.10N 28.45E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.2km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=1.5km az=125.0.
ISC V 22 17 51 29.7–.98 39.08N–.03 29.13E–.03 9 33 0-2
ISCJB V 22 17 51 29.8–.53 39.08N–.04 29.15E–.06 9 ¶16854591
CSEM V 22 17 51 29.8–.20 39.11N 29.14E 2 2.8
ISK V 22 17 51 29.4 39.07N 29.21E 8 2.7
DDA V 22 17 51 29.9 39.12N 29.10E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.7km az=35.3.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.3km az=116.0.
ISC V 22 18 08 04.8–.91 38.85N–.03 29.08E–.04 9 25 0-2
DDA V 22 18 08 00.6 39.05N 29.05E 7 2.7 ¶16854592
ISCJB V 22 18 08 04.6–.79 38.84N–.05 29.10E–.06 9 2.7
CSEM V 22 18 08 04.5–.27 38.84N 29.06E 5 2.7
ISK V 22 18 08 04.6 38.89N 29.13E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.6km az=34.5.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=6.0km az=105.0.
ISC V 22 18 16 08.2–.97 39.11N–.03 29.10E–.04 9 29 0-2
ISK V 22 18 16 07.9 39.08N 29.10E 9 2.7 ¶16854593
ISCJB V 22 18 16 08.3–.55 39.09N–.03 29.06E–.06 9 2.7
CSEM V 22 18 16 08.3–.15 39.08N 29.05E 8 2.7
DDA V 22 18 16 08.8 39.10N 29.03E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=1.1.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=94.0.
ISC V 22 18 34 02.0–.97 39.11N–.02 29.12E–.02 8–9 67 0-2
DDA V 22 18 34 01.5 39.09N 29.11E 7 2.9 ¶16854594
ISK V 22 18 34 01.4 39.10N 29.16E 5 2.9
CSEM V 22 18 34 02.0–.14 39.12N 29.12E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=109.0.
ISC V 22 18 43 19.9–.84 39.10N–.02 29.03E–.03 9 56 0-2
ISCJB V 22 18 43 19.9–.44 39.08N–.03 29.04E–.04 9 ¶16854595
DDA V 22 18 43 19.7 39.07N 29.04E 7 2.8
CSEM V 22 18 43 19.7–.13 39.11N 29.05E 2 2.8
ISK V 22 18 43 19.8 39.12N 29.04E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=142.1.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=133.0.
ISC V 22 18 53 04.9–.93 39.19N–.03 29.02E–.03 9 43 0-2
ISCJB V 22 18 53 04.7–.43 39.19N–.03 29.02E–.05 9 ¶16854596
CSEM V 22 18 53 04.8–.07 39.19N 29.02E 8 2.8
ISK V 22 18 53 04.4 39.19N 29.04E 10 2.8
DDA V 22 18 53 05.0 39.18N 29.01E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=41.1.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=115.0.
ISC V 22 19 02 53.2–.92 39.07N–.03 29.10E–.02 15–8 44 0-2
ISCJB V 22 19 02 53.6–.46 39.10N–.03 29.05E–.03 6–6 ¶602861990
DDA V 22 19 02 53.6 39.09N 29.03E 7 2.5

ISK V 22 19 02 53.3 39.11N 29.08E 6 2.8
CSEM V 22 19 02 53.9–.08 39.10N 29.06E 6–1 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=153.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=172.0.
ISC V 22 19 10 14.8–.00 39.14N–.02 29.14E–.02 7–11 60 0-2
ISCJB V 22 19 10 14.3–.44 39.13N–.03 29.14E–.03 4–6 ¶16854600
DDA V 22 19 10 14.2 39.13N 29.14E 7 2.8
ISK V 22 19 10 14.1 39.13N 29.17E 8 2.9
CSEM V 22 19 10 14.5–.08 39.13N 29.14E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=144.3.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=103.0.
ISC V 22 19 13 29.7–.85 39.09N–.03 29.03E–.03 9 38 0-2
ISCJB V 22 19 13 29.7–.44 39.10N–.03 29.01E–.04 9 ¶16854601
CSEM V 22 19 13 29.8–.10 39.10N 29.02E 8 2.4
ISK V 22 19 13 29.7 39.12N 29.04E 8 2.7
DDA V 22 19 13 29.8 39.07N 29.01E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=140.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=110.0.
ISC V 22 19 24 53.3–1.1 39.13N–.03 29.05E–.03 9 31 0-1
ISK V 22 19 24 52.7 39.13N 29.07E 11 2.7 ¶16854602
ISCJB V 22 19 24 53.2–.51 39.13N–.04 29.03E–.06 9 2.7
DDA V 22 19 24 53.6 39.10N 29.06E 7 2.5
CSEM V 22 19 24 53.3–.21 39.14N 29.02E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=31.1.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=105.0.
ISC V 22 19 39 26.2–.95 39.10N–.02 29.02E–.03 9 37 0-1
ISK V 22 19 39 25.8 39.09N 29.09E 9 2.7 ¶16854604
ISCJB V 22 19 39 26.3–.48 39.09N–.04 29.04E–.05 9 2.7
DDA V 22 19 39 26.4 39.11N 29.01E 7 2.4
CSEM V 22 19 39 26.3–.13 39.10N 29.02E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=103.0.
ISC V 22 20 08 54.2–.99 39.13N–.02 29.01E–.02 7–9 120 0-2
ISCJB V 22 20 08 53.5–.42 39.13N–.02 29.03E–.02 0–4 ¶16854609
DDA V 22 20 08 53.5 39.11N 29.01E 22 3.5L
ISK V 22 20 08 53.6 39.14N 29.02E 8 3.3L
CSEM V 22 20 08 53.9–.06 39.13N 29.01E 5 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=136.3.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=99.0.
ISC V 22 20 22 46.3–.89 39.10N–.03 29.08E–.04 9 23 0-1
ISK V 22 20 22 44.8 39.00N 29.30E 17 2.6 ¶16854613
ISCJB V 22 20 22 46.8–.57 39.12N–.04 29.06E–.06 9 2.6
CSEM V 22 20 22 46.7–.22 39.10N 29.08E 8 2.4
DDA V 22 20 22 47.2 39.09N 29.08E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.6km az=35.4.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.4km az=127.0.
ISC V 22 20 51 10.1–.98 39.09N–.03 29.03E–.02 8–9 32 0-2
ISCJB V 22 20 51 09.9–.54 39.07N–.04 29.04E–.04 5–8 ¶16854616
DDA V 22 20 51 09.9 39.09N 29.02E 7 2.0
CSEM V 22 20 51 10.1–.15 39.08N 29.05E 5 2.0
ISK V 22 20 51 10.8 39.15N 29.07E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=160.9.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=139.0.
ISC V 22 20 59 11.8–.90 39.10N–.02 29.04E–.02 13–9 48 0-2
ISCJB V 22 20 59 11.6–.46 39.10N–.03 29.03E–.03 4–7 ¶16854617
CSEM V 22 20 59 11.9–.08 39.11N 29.04E 5 2.5
ISK V 22 20 59 11.5 39.12N 29.07E 7 2.8
DDA V 22 20 59 11.6 39.10N 29.03E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=162.5.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=118.0.
ISC V 22 21 05 40.4–.88 39.05N–.03 29.11E–.03 9 43 0-2
ISK V 22 21 05 39.5 39.04N 29.12E 10 2.7 ¶16854618
ISCJB V 22 21 05 40.9–.49 39.09N–.04 29.06E–.04 9 2.7
DDA V 22 21 05 41.5 39.09N 29.07E 7 2.4
CSEM V 22 21 05 41.2–.16 39.10N 29.06E 10 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.0km az=144.1.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=138.0.
ISK V 22 21 07 56.4 38.84N 38.27E 5 2.6
¶16854619
ISC V 22 21 13 49.7–.97 39.14N–.03 29.12E–.04 9 22 0-1
ISCJB V 22 21 13 50.0–.61 39.15N–.04 29.15E–.07 9 ¶16854620
ISK V 22 21 13 49.7 39.15N 29.21E 5 2.7
DDA V 22 21 13 50.0 39.13N 29.17E 7 2.2
CSEM V 22 21 13 50.1–.26 39.16N 29.13E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.8km az=29.2.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.0km az=102.0.
ISC V 22 21 16 59.8–.94 39.11N–.03 29.05E–.03 9 38 0-2
ISCJB V 22 21 16 59.8–.45 39.13N–.04 29.03E–.05 9 ¶16854622
ISK V 22 21 16 59.4 39.15N 29.05E 9 2.7
CSEM V 22 21 16 59.9–.16 39.13N 29.03E 8 2.7
DDA V 22 21 17 00.0 39.08N 29.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=139.1.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=133.0.
ISC V 22 21 24 01.6–1.1 39.14N–.03 29.08E–.03 9 28 0-2
ISCJB V 22 21 24 01.7–.54 39.12N–.04 29.06E–.06 9 ¶16854623
CSEM V 22 21 24 01.8–.09 39.12N 29.06E 10 2.5
ISK V 22 21 24 01.2 39.14N 29.06E 7 2.7
DDA V 22 21 24 02.3 39.10N 29.05E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=31.7.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=106.0.
ISC V 22 22 13 30.7–.97 39.12N–.03 29.04E–.03 9 35 0-2
ISCJB V 22 22 13 30.4–.48 39.11N–.04 29.02E–.05 9 ¶16854627
DDA V 22 22 13 30.4 39.12N 29.05E 7 2.7
ISK V 22 22 13 30.1 39.12N 29.05E 5 2.7
CSEM V 22 22 13 30.6–.07 39.12N 29.03E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=38.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=114.0.
ISC V 22 22 25 30.2–.92 40.77N–.03 27.40E–.02 14–7 47 0-2
ISCJB V 22 22 25 29.9–.48 40.78N–.04 27.40E–.04 11–5 ¶16854632
ISK V 22 22 25 29.8 40.77N 27.40E 15 2.6
CSEM V 22 22 25 30.1–.08 40.78N 27.41E 10 2.6
DDA V 22 22 25 30.6 40.78N 27.38E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.1km az=14.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=6.0.
ISC V 22 22 36 44.9–.96 39.09N–.03 29.01E–.03 9 33 0-2
ISK V 22 22 36 43.5 39.04N 29.08E 5 2.8 ¶16854635
ISCJB V 22 22 36 44.8–.51 39.09N–.04 29.02E–.05 9 2.8
CSEM V 22 22 36 44.7–.13 39.10N 29.01E 2 2.3
DDA V 22 22 36 44.6 39.10N 29.01E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=136.9.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=116.0.
ISC V 22 22 47 09.4–.95 39.17N–.02 29.14E–.03 9 40 0-2
ISCJB V 22 22 47 09.3–.47 39.17N–.03 29.13E–.05 9 ¶16854641
CSEM V 22 22 47 09.4–.07 39.17N 29.14E 8 2.7
ISK V 22 22 47 09.0 39.17N 29.14E 8 2.7
DDA V 22 22 47 09.8 39.16N 29.14E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.7km az=22.5.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=101.0.
ISC V 22 22 49 41.4–.91 39.09N–.03 29.10E–.04 9 27 0-1
ISK V 22 22 49 40.8 39.12N 29.05E 8 2.7 ¶16854642
ISCJB V 22 22 49 41.5–.58 39.11N–.04 29.06E–.07 9 2.7
CSEM V 22 22 49 41.7–.12 39.12N 29.05E 9–1 2.7
DDA V 22 22 49 42.2 39.11N 29.02E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=22.7.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=111.0.
ISC V 22 22 50 21.1–1.0 39.11N–.04 29.12E–.06 9 23 0-1
ISK V 22 22 50 20.6 39.08N 29.06E 10 2.5 ¶16854645
ISCJB V 22 22 50 22.5–.72 39.15N–.05 29.08E–.08 9 2.5
DDA V 22 22 50 23.4 39.16N 29.19E 7 2.2
CSEM V 22 22 50 23.2–.27 39.15N 29.15E 20 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.4km az=26.2.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=6.2km az=101.0.
ISC V 22 23 04 11.6–.96 39.16N–.02 29.15E–.02 10–9 36 0-2
DDA V 22 23 04 10.8 39.14N 29.14E 7 2.5 ¶16854646
ISCJB V 22 23 04 11.4–.51 39.15N–.03 29.14E–.04 9–5 2.5
CSEM V 22 23 04 11.5–.07 39.16N 29.15E 8 2.5
ISK V 22 23 04 11.2 39.17N 29.16E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.9km az=135.5.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=85.0.
ISC V 22 23 43 39.6–.93 39.12N–.02 29.00E–.02 11–9 39 0-2
ISCJB V 22 23 43 39.3–.48 39.12N–.03 29.00E–.04 6–6 ¶16854650
CSEM V 22 23 43 39.4–.11 39.12N 28.98E 5 2.7
ISK V 22 23 43 39.1 39.14N 28.99E 5 2.7
DDA V 22 23 43 39.3 39.11N 29.01E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=136.9.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=89.0.
ISC V 22 23 51 41.1–.96 39.09N–.02 29.03E–.02 9–11 39 0-2
ISCJB V 22 23 51 40.8–.46 39.08N–.03 29.03E–.04 5–7 ¶16854651
ISK V 22 23 51 40.7 39.11N 29.04E 7 2.7
CSEM V 22 23 51 41.1–.11 39.09N 29.03E 8 2.6
DDA V 22 23 51 41.0 39.08N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=116.0.
ISC V 22 23 53 11.7–1.1 39.03N–.03 29.11E–.03 8–11 38 0-2
ISCJB V 22 23 53 12.3–.57 39.07N–.04 29.06E–.04 2–9 ¶16854652
DDA V 22 23 53 12.1 39.07N 29.05E 7 2.7
ISK V 22 23 53 12.2 39.08N 29.13E 7 2.6
CSEM V 22 23 53 12.3–.12 39.08N 29.06E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=149.6.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=106.0.
ISC V 23 00 08 51.2–1.1 38.90N–.03 29.14E–.03 5–11 45 0-2
ISCJB V 23 00 08 50.7–.54 38.89N–.03 29.15E–.04 4–7 ¶16854655
ISK V 23 00 08 50.6 38.91N 29.15E 6 2.8
CSEM V 23 00 08 51.0–.09 38.89N 29.14E 5 2.7
DDA V 23 00 08 51.2 38.87N 29.12E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=140.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=124.0.
DDA V 23 00 13 58.7 39.18N 28.97E 7 2.6
CSEM V 23 00 13 58.7 39.18N 28.97E 7 2.6 ¶602861993
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 23 00 23 50.1–.95 39.11N–.02 29.07E–.03 12–8 42 0-2
ISCJB V 23 00 23 50.3–.48 39.11N–.03 29.04E–.03 9–5 ¶16854658
ISK V 23 00 23 50.1 39.12N 29.06E 10 2.8
DDA V 23 00 23 50.8 39.07N 29.03E 7 2.6
CSEM V 23 00 23 50.5–.08 39.10N 29.06E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=159.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=113.0.
ISC V 23 00 29 48.5–1.1 39.09N–.02 29.03E–.02 3–13 54 0-2
DDA V 23 00 29 48.0 39.08N 29.01E 7 2.6 ¶16854659
ISK V 23 00 29 48.0 39.08N 29.03E 5 2.8
CSEM V 23 00 29 48.3–.07 39.09N 29.03E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=63.0.
ISC V 23 00 35 58.5–.92 39.09N–.03 29.05E–.03 15–9 34 0-1
ISCJB V 23 00 35 58.6–.49 39.12N–.03 29.04E–.04 11–5 ¶16854660
DDA V 23 00 35 58.6 39.05N 29.04E 7 2.4
ISK V 23 00 35 58.7 39.17N 29.04E 5 2.7
CSEM V 23 00 35 58.8–.14 39.14N 29.03E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=145.1.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=120.0.
ISC V 23 00 42 14.7–.90 39.11N–.03 29.04E–.03 9 38 0-2
ISCJB V 23 00 42 14.6–.46 39.10N–.03 29.04E–.04 9 ¶16854661
DDA V 23 00 42 14.6 39.08N 29.05E 7 2.6
ISK V 23 00 42 14.5 39.13N 29.02E 9 2.6
CSEM V 23 00 42 14.8–.12 39.11N 29.04E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=147.6.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=120.0.
ISC V 23 00 47 08.1–.00 39.09N–.03 29.06E–.02 7–11 46 0-2
ISCJB V 23 00 47 07.8–.51 39.09N–.03 29.05E–.04 3–7 ¶16854662
CSEM V 23 00 47 07.9–.09 39.09N 29.05E 4–1 2.6
ISK V 23 00 47 07.8 39.10N 29.09E 5 2.8
DDA V 23 00 47 07.8 39.07N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=154.5.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=130.0.
ISC V 23 00 48 19.6–.95 38.93N–.04 29.00E–.04 9 25 0-2
ISCJB V 23 00 48 20.5–.62 38.97N–.05 28.91E–.06 9 ¶16854663
CSEM V 23 00 48 20.4–.26 39.02N 28.86E 1–3 2.6
DDA V 23 00 48 21.5 38.84N 29.02E 7 2.6
ISK V 23 00 48 23.8 39.22N 29.01E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=5.3km az=140.0.
ISC V 23 01 02 25.3–.98 39.11N–.03 29.06E–.03 9 28 0-2
ISK V 23 01 02 24.8 39.10N 29.09E 16 2.7 ¶16854666
ISCJB V 23 01 02 25.2–.54 39.13N–.04 29.05E–.04 9 2.7
CSEM V 23 01 02 25.2–.22 39.14N 29.03E 10 2.4
DDA V 23 01 02 25.4 39.08N 29.06E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=145.8.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=99.0.
ISC V 23 01 16 14.7–.97 39.11N–.04 29.01E–.03 20–6 34 0-1
ISCJB V 23 01 16 15.0–.55 39.12N–.04 29.00E–.04 11–5 ¶16854667
CSEM V 23 01 16 14.9–.13 39.12N 28.99E 10 2.4
ISK V 23 01 16 14.2 39.14N 29.00E 9 2.6
DDA V 23 01 16 15.2 39.10N 29.01E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.1km az=155.2.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=95.0.
ISC V 23 01 23 11.3–.94 39.10N–.03 29.05E–.02 11–10 34 0-1
ISCJB V 23 01 23 11.0–.50 39.10N–.03 29.04E–.04 8–6 ¶16854668
DDA V 23 01 23 10.9 39.07N 29.05E 7 2.4
ISK V 23 01 23 10.7 39.11N 29.06E 8 2.6
CSEM V 23 01 23 11.1–.09 39.10N 29.04E 8 2.4
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=140.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=102.0.

ISC	**V**	**23 01 29 41.9–.95**	**39.10N–.03**	**29.01E–.03**	**9**		**41**	**0-2**
ISCJB	V	23 01 29 42.0–.52	39.08N–.04	29.00E–.05	9			¶16854669
ISK	V	23 01 29 41.3	39.09N	29.02E	6	2.8		
CSEM	V	23 01 29 41.7–.12	39.11N	29.02E	2	2.8		
DDA	V	23 01 29 42.1	39.11N	29.04E	7	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.5km az=30.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=121.0.

ISC	**V**	**23 02 02 47.6–.93**	**40.03N–.03**	**27.86E–.02**	**14–7**		**52**	**0-2**
ISCJB	V	23 02 02 47.6–.51	40.04N–.04	27.86E–.04	8–4			¶16854671
CSEM	V	23 02 02 47.9–.12	40.03N	27.85E	10	2.6		
ISK	V	23 02 02 47.3	40.03N	27.87E	8	2.6		
DDA	V	23 02 02 48.1	40.03N	27.85E	7	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.5km az=163.2.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=165.0.

ISC	**V**	**23 02 03 57.1–.95**	**39.09N–.02**	**29.08E–.03**	**9**		**53**	**0-2**
DDA	V	23 02 03 56.8	39.09N	29.06E	7	2.7		¶16854672
ISK	V	23 02 03 56.4	39.10N	29.04E	2	2.8		
ISCJB	V	23 02 03 57.3–.45	39.07N–.03	29.02E–.05	9	2.8		
CSEM	V	23 02 03 57.0–.13	39.09N	29.05E	2	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=40.1.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=123.0.

ISC	**V**	**23 02 24 20.2–.90**	**39.10N–.03**	**29.05E–.03**	**9**		**28**	**0-2**
ISK	V	23 02 24 19.9	39.10N	29.11E	5	2.6		¶16854676
ISCJB	V	23 02 24 20.8–.53	39.11N–.04	29.11E–.04	9	2.6		
DDA	V	23 02 24 20.6	39.07N	29.10E	7	2.4		
CSEM	V	23 02 24 20.7–.10	39.12N	29.09E	5	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=146.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=110.0.

ISC	**V**	**23 02 45 56.7–.94**	**39.10N–.03**	**29.05E–.02**	**9**		**45**	**0-2**
ISCJB	V	23 02 45 56.5–.45	39.08N–.04	29.06E–.05	9			¶16854680
CSEM	V	23 02 45 56.4–.08	39.10N	29.06E	2	2.6		
ISK	V	23 02 45 56.0	39.10N	29.08E	5	2.7		
DDA	V	23 02 45 56.6	39.09N	29.05E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=45.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=136.0.

ISC	**V**	**23 03 05 45.1–1.0**	**39.09N–.03**	**29.07E–.03**	**7–10**		**34**	**0-2**
DDA	V	23 03 05 44.9	39.09N	29.03E	7	2.6		¶16854683
ISCJB	V	23 03 05 45.2–.53	39.10N–.04	29.05E–.04	6–7	2.6		
ISK	V	23 03 05 45.2	39.11N	29.09E	10	2.6		
CSEM	V	23 03 05 45.3–.13	39.11N	29.06E	5	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=169.7.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=82.0.

ISC	**V**	**23 03 07 12.1–.87**	**39.07N–.03**	**29.08E–.03**	**9**		**28**	**0-2**
ISK	V	23 03 07 11.3	39.07N	29.13E	4	2.6		¶16854684
ISCJB	V	23 03 07 12.3–.53	39.08N–.04	29.07E–.04	9	2.6		
CSEM	V	23 03 07 12.2–.17	39.10N	29.07E	2	2.5		
DDA	V	23 03 07 12.0	39.08N	29.06E	7	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=149.2.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=99.0.

ISC	**V**	**23 03 13 27.8–.87**	**39.00N–.04**	**29.14E–.03**	**9**		**28**	**0-1**
ISCJB	V	23 03 13 28.5–.52	39.06N–.04	29.08E–.04	9			¶16854685
CSEM	V	23 03 13 28.6–.13	39.07N	29.08E	4–2	2.3		
ISK	V	23 03 13 28.2	39.07N	29.15E	5	2.6		
DDA	V	23 03 13 28.5	39.05N	29.06E	7	2.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=149.2.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=132.0.

ISC	**V**	**23 03 17 10.9–.91**	**39.09N–.03**	**29.07E–.03**	**9**		**45**	**0-2**
ISCJB	V	23 03 17 10.7–.46	39.07N–.03	29.08E–.05	9			¶16854686
CSEM	V	23 03 17 10.5–.13	39.09N	29.07E	2	2.4		
ISK	V	23 03 17 10.1	39.06N	29.11E	8	2.7		
DDA	V	23 03 17 10.6	39.08N	29.06E	7	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=34.2.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=110.0.

ISC	**V**	**23 03 29 43.1–.89**	**39.12N–.02**	**29.09E–.02**	**15–8**		**44**	**0-2**
ISCJB	V	23 03 29 43.2–.47	39.12N–.03	29.08E–.04	8–5			¶16854690
CSEM	V	23 03 29 43.3–.07	39.12N	29.08E	8	2.7		
ISK	V	23 03 29 43.0	39.14N	29.09E	9	2.7		
DDA	V	23 03 29 43.3	39.12N	29.08E	7	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=39.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=94.0.

ISC	**V**	**23 03 42 46.9–.89**	**39.12N–.03**	**29.01E–.02**	**14–8**		**44**	**0-2**
ISCJB	V	23 03 42 46.7–.46	39.13N–.03	29.00E–.04	10–5			¶16854691
CSEM	V	23 03 42 46.8–.08	39.12N	29.00E	12	2.6		
ISK	V	23 03 42 46.2	39.13N	29.03E	12	2.7		
DDA	V	23 03 42 47.0	39.09N	29.01E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.4km az=36.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=96.0.

ISC	**V**	**23 03 51 48.9–1.2**	**38.08N–.03**	**43.06E–.04**	**6–12**		**33**	**0-3**
ISCJB	V	23 03 51 48.9–.60	38.07N–.03	43.05E–.06	7–8			¶16854692
CSEM	V	23 03 51 48.8–.18	38.08N	43.07E	5	2.6		
ISK	V	23 03 51 48.8	38.06N	43.01E	9	2.8L		
DDA	V	23 03 51 48.8	38.10N	43.05E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=10.6.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=124.0.

ISC	**V**	**23 04 04 26.9–.91**	**40.33N–.02**	**26.24E–.02**	**11–8**		**115**	**0-3**
DDA	V	23 04 04 26.6	40.33N	26.23E	7	3.0		¶16854693
ISCJB	V	23 04 04 26.5–.41	40.33N–.02	26.24E–.03	6–4	3.0		
THE	V	23 04 04 26.6	40.32N	26.21E	11–1	2.2L		
CSEM	V	23 04 04 26.7–.10	40.33N	26.24E	5	3.0		
ISK	V	23 04 04 26.4	40.32N	26.26E	6	3.0		
ATH	V	23 04 04 26.3	40.34N	26.19E	27–2	2.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=24.9.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=282.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=116.0.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.1km az=294.0.

ISC	**V**	**23 04 46 30.6–.92**	**39.11N–.03**	**29.04E–.02**	**9**		**36**	**0-1**
ISCJB	V	23 04 46 30.4–.47	39.10N–.03	29.04E–.04	9			¶16854697
CSEM	V	23 04 46 30.5–.08	39.11N	29.04E	5	2.4		
ISK	V	23 04 46 30.3	39.12N	29.05E	7	2.7		
DDA	V	23 04 46 30.4	39.07N	29.05E	7	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=143.3.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=110.0.

ISC	**V**	**23 05 11 48.4–.89**	**39.08N–.03**	**29.04E–.02**	**9**		**48**	**0-2**
ISK	V	23 05 11 47.8	39.08N	29.10E	5	2.7		¶16854701
DDA	V	23 05 11 47.8	39.07N	29.03E	7	2.5		
ISCJB	V	23 05 11 48.1–.42	39.05N–.03	29.05E–.04	9	2.5		
CSEM	V	23 05 11 48.0–.09	39.08N	29.05E	2	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=147.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=134.0.

ISC	**V**	**23 05 51 28.6–1.1**	**39.03N–.03**	**29.14E–.03**	**7–11**		**34**	**0-2**
ISK	V	23 05 51 28.2	39.02N	29.22E	10	2.5		¶16854702
ISCJB	V	23 05 51 29.3–.54	39.11N–.03	29.06E–.04	8–6	2.5		
CSEM	V	23 05 51 29.3–.05	39.12N	29.05E	8	2.3		
DDA	V	23 05 51 29.5	39.08N	29.06E	7	2.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.2km az=137.2.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=124.0.

ISC	**V**	**23 06 12 55.4–.97**	**39.11N–.02**	**29.02E–.02**	**8–9**		**69**	**0-2**
ISCJB	V	23 06 12 55.0–.45	39.10N–.03	29.03E–.03	2–5			¶16854706
ISK	V	23 06 12 54.9	39.10N	29.05E	6	2.7		
DDA	V	23 06 12 55.0	39.11N	29.03E	7	2.6		
CSEM	V	23 06 12 55.3–.09	39.09N	29.03E	5	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=158.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=138.0.

ISC	**V**	**23 06 13 33.1–1.1**	**39.09N–.02**	**29.03E–.02**	**2–12**		**70**	**0-2**
ISK	V	23 06 13 32.0	39.09N	29.01E	5	2.8		¶16854709
DDA	V	23 06 13 32.5	39.08N	29.04E	8	2.6		
CSEM	V	23 06 13 33.1–.09	39.09N	29.03E	2	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=124.0.

ISC	**V**	**23 06 19 37.8–.97**	**39.08N–.03**	**29.08E–.03**	**16–9**		**44**	**0-1**
ISK	V	23 06 19 37.7	39.10N	29.02E	9	2.8		¶16854710
ISCJB	V	23 06 19 38.2–.46	39.09N–.03	29.04E–.04	8–5	2.8		
DDA	V	23 06 19 38.4	39.09N	29.05E	7	2.6		
CSEM	V	23 06 19 38.3–.09	39.09N	29.04E	10	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=32.4.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=112.0.

ISC	**V**	**23 07 36 20.9–.97**	**39.08N–.03**	**29.01E–.02**	**8–10**		**36**	**0-2**
ISK	V	23 07 36 19.9	38.94N	29.36E	6	2.4		¶16854719
DDA	V	23 07 36 20.3	39.09N	29.02E	7	2.5		
CSEM	V	23 07 36 21.1–.22	39.10N	29.01E	2	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=112.0.

ISC	**V**	**23 07 37 54.8–1.1**	**38.99N–.03**	**29.05E–.03**	**19–2**		**46**	**0-2**
DDA	V	23 07 37 54.7	39.09N	29.06E	7	2.6		¶16854720
CSEM	V	23 07 37 55.3–.17	39.05N	29.09E	0–2	2.6		
ISK	V	23 07 37 55.2	39.02N	29.15E	5	2.2		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=139.0.

ISC	**V**	**23 07 41 13.6–1.0**	**36.08N–.02**	**31.19E–.02**	**13–9**		**204**	**1-7**
ISK	V	23 07 41 12.4	36.07N	31.19E	11	3.5L		¶16533406
DDA	V	23 07 41 13.8	36.18N	31.24E	14	3.6L		
NSSC	V	23 07 41 14.0–1.0	35.99N	31.41E	0–44	3.2L		
ISCJB	V	23 07 41 14.4–.70	36.07N–.02	31.21E–.02	24–7	3.2L		
CSEM	V	23 07 41 14.0–.13	36.10N	31.18E	10	3.6L		
THE	V	23 07 41 16.2	35.97N	31.25E	28–36	4.0L		
GII	V	23 07 41 16.9–.00	36.22N	31.50E	15–5	2.8		
NIC	V	23 07 41 19.9–.10	36.09N	31.89E	11	4.1b,3.7L		

ISC Event type ke.
NSSC Error ellipse: s-maj=16.2km s-min=80.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=28.2.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=30.0.
THE Event type ke. Error ellipse: s-maj=36.6km s-min=1.0km az=110.0.
GII Event type ke.

ISC	**V**	**23 08 42 56.0–.89**	**39.10N–.02**	**29.01E–.02**	**13–8**		**40**	**0-1**
ISCJB	V	23 08 42 55.9–.51	39.09N–.03	29.00E–.04	9–5			¶16854723
CSEM	V	23 08 42 55.9–.06	39.10N	29.00E	10	2.7		
DDA	V	23 08 42 55.6	39.09N	29.02E	7	2.7		
ISK	V	23 08 42 55.4	39.09N	29.01E	12	2.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=32.3.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=107.0.

DDA	**V**	**23 08 50 42.3**	**39.19N**	**29.06E**	**7**	**2.5**		
CSEM	V	23 08 50 42.3	39.19N	29.06E	7	2.5		¶601585230

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**V**	**23 09 04 05.4–1.2**	**39.11N–.02**	**29.00E–.02**	**0–13**		**46**	**0-2**
DDA	V	23 09 04 04.2	39.11N	29.00E	7	2.7		¶16854725
CSEM	V	23 09 04 05.3–.11	39.10N	29.00E	2	2.7		
ISK	V	23 09 04 05.3	39.07N	28.99E	9	2.3		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=94.0.

ISC	**V**	**23 09 20 38.4–1.1**	**39.27N–.04**	**40.35E–.03**	**8–10**		**23**	**0-1**
ISK	V	23 09 20 35.6	39.46N	40.62E	37	2.2		¶16854726
DDA	V	23 09 20 37.7	39.27N	40.36E	7	2.6		
CSEM	V	23 09 20 38.2–.36	39.26N	40.37E	10	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=7.7km az=56.0.

ISC	**V**	**23 09 49 44.9–.93**	**39.09N–.03**	**29.21E–.02**	**20–4**		**53**	**0-2**
ISK	V	23 09 49 42.2	38.98N	29.47E	16	2.3		¶16854729
ISCJB	V	23 09 49 44.9–.50	39.11N–.03	29.15E–.03	8–5	2.3		
DDA	V	23 09 49 44.9	39.11N	29.13E	7	2.9		
CSEM	V	23 09 49 44.9–.25	39.13N	29.18E	10	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=45.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.2km az=120.0.

ISC	**V**	**23 10 06 38.9–.83**	**39.07N–.01**	**27.15E–.01**	**16–6**		**285**	**0-9**
DDA	V	23 10 06 38.0	39.10N	27.15E	26	4.0L		¶16854730
ISCJB	V	23 10 06 38.3–.40	39.09N–.01	27.13E–.02	9–3	4.0L		
ISK	V	23 10 06 38.1	39.07N	27.17E	10	3.6L		
THE	V	23 10 06 38.4	39.04N	27.13E	1–1	3.9L		
CSEM	V	23 10 06 38.8–.07	39.06N	27.14E	10	3.6L		
ATH	V	23 10 06 38.7	39.05N	27.13E	35–3	3.7L		
SOF	V	23 10 06 41.9	39.44N	27.02E	2	2.9		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=152.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=59.0.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.1km az=246.0.

ISC	**V**	**23 11 17 59.6–.99**	**39.10N–.03**	**29.05E–.03**	**12–10**		**40**	**0-2**
ISCJB	V	23 11 17 59.2–.55	39.10N–.03	29.03E–.05	9–6			¶16854734
CSEM	V	23 11 17 59.3–.10	39.10N	29.05E	10	2.7		
ISK	V	23 11 17 59.0	39.11N	29.07E	12	2.4		
DDA	V	23 11 17 59.3	39.09N	29.05E	7	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.4km az=2.8.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=103.0.

ISC	**V**	**23 11 32 34.7–.90**	**39.08N–.03**	**29.04E–.02**	**15–7**		**51**	**0-2**
ISCJB	V	23 11 32 35.0–.45	39.09N–.03	29.03E–.03	4–6			¶16854735
ISK	V	23 11 32 34.9	39.10N	29.02E	9	3.2		
DDA	V	23 11 32 34.5	39.07N	29.04E	7	2.7		
CSEM	V	23 11 32 35.2–.10	39.09N	29.04E	5	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=176.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=137.0.

ISC	**V**	**23 12 03 40.6–.99**	**39.58N–.02**	**28.82E–.01**	**7–9**		**148**	**0-3**
ISK	V	23 12 03 39.5	39.57N	28.86E	5	2.9		¶16854737
DDA	V	23 12 03 40.0	39.61N	28.81E	4	3.5L		
CSEM	V	23 12 03 40.9–.13	39.57N	28.86E	2	3.5L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=138.0.

ISC	**V**	**23 12 34 13.5–1.2**	**39.08N–.03**	**29.13E–.02**	**7–10**		**41**	**0-2**
ISK	V	23 12 34 13.3	39.08N	29.20E	7	2.6		¶16854742
ISCJB	V	23 12 34 14.3–.49	39.09N–.04	29.13E–.04	7–6	2.6		
CSEM	V	23 12 34 14.2–.15	39.08N	29.14E	10	2.5L		
DDA	V	23 12 34 14.7	39.14N	29.13E	7	2.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.3km az=151.3.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=127.0.

DDA	**V**	**23 12 35 41.1**	**39.16N**	**29.16E**	**7**	**2.1L**		
								¶602862025
DDA	**V**	**23 12 51 05.0**	**37.76N**	**42.64E**	**7**	**3.2L**		
ISN	V	23 12 51 01.4–.30	37.66N	42.72E	0	3.2L		¶16596595

CSEM V 23 12 51 04.9–.44 37.70N 42.67E 10 3.2L
ISN Error ellipse: s-maj=2.9km s-min=0.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=9.4km az=52.0.
ISC V 23 13 06 26.7–.92 39.10N–.04 29.02E–.03 14–10 30 0-1
ISK V 23 13 06 26.7 39.13N 29.03E 8 2.6 ¶16854743
ISCJB V 23 13 06 27.0–.58 39.13N–.05 28.99E–.04 4–8 2.6
CSEM V 23 13 06 27.0–.11 39.12N 28.99E 8 2.4L
DDA V 23 13 06 27.1 39.13N 29.00E 7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.2km az=162.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=128.0.
ISC V 23 14 08 31.0–.95 39.09N–.03 29.02E–.02 10–9 66 0-2
ISCJB V 23 14 08 30.6–.48 39.09N–.04 29.02E–.03 6–5 ¶16854746
DDA V 23 14 08 30.8 39.07N 29.03E 7 2.9L
ISK V 23 14 08 30.2 39.08N 29.04E 12 2.9L
CSEM V 23 14 08 30.7–.09 39.08N 29.03E 10 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=170.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=161.0.
ISC V 23 14 38 40.4–.95 39.20N–.04 29.02E–.03 9 22 0-1
ISK V 23 14 38 37.3 39.03N 28.99E 8 2.6 ¶16854748
CSEM V 23 14 38 38.1–.27 39.03N 28.92E 10 2.9L
ISCJB V 23 14 38 40.6–.86 39.17N–.05 29.04E–.05 9 2.9L
DDA V 23 14 38 41.1 39.21N 29.09E 7 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.3km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.8km az=23.5.
ISC V 23 14 43 26.5–.91 39.13N–.03 28.99E–.02 13–8 40 0-2
ISCJB V 23 14 43 26.5–.51 39.13N–.03 29.00E–.04 6–6 ¶16854749
CSEM V 23 14 43 26.6–.10 39.12N 29.01E 8 2.6L
ISK V 23 14 43 26.2 39.13N 29.04E 9 2.7
DDA V 23 14 43 26.1 39.17N 28.99E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=168.4.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=121.0.
ISC V 23 14 47 24.6–.89 39.09N–.03 29.05E–.02 9 57 0-2
ISK V 23 14 47 23.8 39.08N 29.09E 8 2.8L ¶16854750
ISCJB V 23 14 47 24.3–.40 39.07N–.03 29.05E–.03 9 2.8L
DDA V 23 14 47 24.2 39.11N 29.04E 7 2.4L
CSEM V 23 14 47 24.3–.09 39.08N 29.04E 6–1 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=162.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=166.0.
ISC V 23 15 01 02.7–.99 39.05N–.03 29.10E–.02 12–8 42 0-2
ISK V 23 15 01 02.6 39.09N 29.09E 12 2.6 ¶16854753
DDA V 23 15 01 02.9 39.04N 29.07E 7 2.2L
ISCJB V 23 15 01 03.0–.52 39.08N–.04 29.07E–.03 7–5 2.2L
CSEM V 23 15 01 03.0–.14 39.08N 29.08E 11–1 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.1km az=163.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=155.0.
ISC V 23 15 30 45.1–.93 40.31N–.03 29.14E–.02 10–6 50 0-2
ISK V 23 15 30 43.5 40.26N 29.14E 13 2.3 ¶16854754
CSEM V 23 15 30 44.7–.21 40.31N 29.14E 8 2.3
DDA V 23 15 30 45.1 40.32N 29.16E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=50.0.
ISC V 23 16 16 49.5–1.3 39.10N–.03 29.05E–.03 7–11 42 0-2
DDA V 23 16 16 48.2 39.11N 29.18E 7 2.6 ¶16854759
ISCJB V 23 16 16 49.8–.66 39.13N–.03 29.08E–.04 5–5 2.6
ISK V 23 16 16 49.2 39.13N 29.07E 8 2.7
CSEM V 23 16 16 50.1–.13 39.13N 29.08E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=5.0km az=20.3.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.6km az=116.0.
ISC V 23 16 33 02.4–.98 39.07N–.04 29.05E–.03 9 25 0-1
DDA V 23 16 33 01.9 39.06N 29.08E 7 2.1 ¶16854760
ISCJB V 23 16 33 02.6–.57 39.05N–.05 29.07E–.05 9 2.1
CSEM V 23 16 33 02.4–.19 39.09N 29.05E 2 2.1
ISK V 23 16 33 02.3 39.08N 29.06E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=150.2.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.8km az=138.0.
ISC V 23 16 36 22.3–1.5 39.11N–.04 29.05E–.03 3–13 27 0-1
ISCJB V 23 16 36 22.6–.77 39.13N–.06 28.99E–.05 0–9 ¶16854761
CSEM V 23 16 36 22.7–.11 39.13N 29.00E 2 2.4
ISK V 23 16 36 22.4 39.10N 29.05E 7 2.5
DDA V 23 16 36 25.7 39.21N 29.19E 6 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.2km az=165.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=153.0.
ISC V 23 16 54 58.4–1.0 39.13N–.03 28.98E–.02 6–11 65 0-2
ISCJB V 23 16 54 57.9–.50 39.12N–.04 28.98E–.03 1–6 ¶16854762
ISK V 23 16 54 57.7 39.12N 29.01E 5 2.8
DDA V 23 16 54 57.9 39.12N 29.02E 7 2.5
CSEM V 23 16 54 58.2–.10 39.11N 29.00E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=170.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=155.0.
ISC V 23 17 43 21.5–1.1 39.16N–.03 29.02E–.02 2–12 30 0-2
ISK V 23 17 43 20.6 39.10N 29.13E 4 2.8 ¶16854763
DDA V 23 17 43 20.7 39.17N 29.01E 7 2.6
CSEM V 23 17 43 21.2–.17 39.15N 29.02E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=158.0.
ISC V 23 17 48 07.9–1.3 38.94N–.05 29.09E–.03 10–10 35 0-2
ISK V 23 17 48 08.7 38.99N 29.21E 12 2.6 ¶16854764
DDA V 23 17 48 09.0 38.96N 29.08E 7 2.6
ISCJB V 23 17 48 09.7–.58 39.03N–.05 29.08E–.04 9–6 2.6
CSEM V 23 17 48 09.6–.17 39.06N 29.07E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=158.9.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.9km az=148.0.
ISC V 23 18 04 00.1–.92 39.12N–.03 29.15E–.02 11–9 63 0-2
DDA V 23 18 03 59.7 39.13N 29.13E 7 3.2 ¶16854765
CSEM V 23 18 04 00.9–.16 39.13N 29.15E 2 3.2
ISK V 23 18 04 01.0 39.15N 29.20E 5 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=154.0.
ISC V 23 18 26 26.2–1.1 39.15N–.02 29.03E–.01 4–13 126 0-3
ISK V 23 18 26 25.5 39.16N 29.06E 5 3.1 ¶16854766
DDA V 23 18 26 25.7 39.14N 29.01E 5 3.5
CSEM V 23 18 26 26.8–.11 39.16N 29.06E 2 3.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=176.0.
ISC V 23 18 32 10.0–.89 39.08N–.03 29.10E–.03 9 27 0-1
DDA V 23 18 32 09.6 39.12N 29.09E 7 2.8 ¶16854767
CSEM V 23 18 32 09.9–.18 39.09N 29.11E 2 2.8
ISK V 23 18 32 09.0 39.03N 29.19E 4 2.6
ISCJB V 23 18 32 10.1–.55 39.08N–.04 29.08E–.04 9 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 23 18 35 16.3–1.0 39.12N–.04 29.03E–.03 14–10 24 0-1
DDA V 23 18 35 16.1 39.13N 29.04E 7 2.8 ¶601585287
CSEM V 23 18 35 16.6–.14 39.11N 29.02E 5 2.8
ISC Event type ke.
DDA Event type ke.

CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=147.0.
ISC V 23 18 38 56.9–.94 39.08N–.05 29.06E–.03 9 22 0-1
ISK V 23 18 38 56.8 39.13N 29.04E 5 2.6 ¶16854768
ISCJB V 23 18 38 57.4–.64 39.12N–.05 29.01E–.04 9 2.6
DDA V 23 18 38 57.2 39.13N 29.00E 7 2.6
CSEM V 23 18 38 57.5–.15 39.11N 29.02E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=170.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=157.0.
ISC V 23 19 08 15.8–1.2 39.04N–.04 29.11E–.03 6–13 34 0-2
ISK V 23 19 08 15.5 39.01N 29.24E 9 2.6 ¶16854769
DDA V 23 19 08 16.4 39.10N 29.04E 7 2.8
CSEM V 23 19 08 16.5–.21 39.08N 29.08E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.8km az=156.0.
ISC V 23 19 17 28.3–.90 39.14N–.03 29.02E–.02 12–8 56 0-2
ISCJB V 23 19 17 28.5–.49 39.14N–.03 29.03E–.03 3–5 ¶16854770
DDA V 23 19 17 28.3 39.12N 29.02E 7 2.8
CSEM V 23 19 17 28.7–.09 39.15N 29.03E 2 2.8
ISK V 23 19 17 28.4 39.15N 29.04E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.6km az=165.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=155.0.
ISC V 23 19 42 34.6–1.0 39.08N–.03 29.07E–.02 7–10 59 0-2
DDA V 23 19 42 33.9 39.04N 29.07E 15 2.7 ¶16854771
ISCJB V 23 19 42 34.5–.50 39.07N–.03 29.07E–.03 6–5 2.7
CSEM V 23 19 42 34.3–.08 39.09N 29.06E 2 2.7
ISK V 23 19 42 34.0 39.08N 29.10E 8 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=174.7.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=145.0.
ISC V 23 19 50 53.3–1.1 39.02N–.03 29.11E–.02 6–12 39 0-2
ISK V 23 19 50 53.0 38.98N 29.23E 9 2.7 ¶16854772
CSEM V 23 19 50 53.9–.17 39.07N 29.07E 2 2.9
DDA V 23 19 50 53.4 38.99N 29.07E 7 2.9
ISCJB V 23 19 50 54.0–.56 39.04N–.04 29.08E–.03 7–5 2.9
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC V 23 19 54 46.1–1.2 39.15N–.04 29.00E–.03 1–14 23 0-1
DDA V 23 19 54 45.6 39.12N 29.00E 7 2.7 ¶601585292
CSEM V 23 19 54 45.8–.33 39.15N 28.99E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=6.0km az=145.0.
ISC V 23 20 00 16.5–.97 39.10N–.03 29.01E–.02 9–9 50 0-2
ISCJB V 23 20 00 16.2–.56 39.12N–.04 29.00E–.03 3–6 ¶16854773
CSEM V 23 20 00 16.5–.09 39.11N 29.01E 5 2.3
ISK V 23 20 00 16.0 39.11N 29.02E 7 2.8
DDA V 23 20 00 16.3 39.13N 28.98E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.8km az=163.8.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=154.0.
ISC V 23 20 04 30.3–1.1 39.10N–.03 29.13E–.02 4–12 53 0-2
ISCJB V 23 20 04 29.9–.61 39.10N–.04 29.12E–.03 0–6 ¶16854774
DDA V 23 20 04 29.8 38.96N 29.17E 7 2.2
ISK V 23 20 04 30.0 39.11N 29.20E 5 2.8
CSEM V 23 20 04 30.2–.11 39.10N 29.13E 2 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.9km az=159.4.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=142.0.
ISC V 23 20 05 23.1–1.1 39.11N–.03 29.05E–.02 2–11 67 0-2
CSEM V 23 20 05 22.9–.09 39.11N 29.06E 2 2.3 ¶16854777
ISK V 23 20 05 22.6 39.11N 29.09E 5 2.9
DDA V 23 20 05 22.9 38.98N 29.02E 7 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=142.0.
ISC V 23 21 37 19.5–.87 38.14N–.04 41.09E–.04 12–6 31 0-2
DDA V 23 21 37 17.7 38.29N 41.33E 7 2.7 ¶16854784
ISK V 23 21 37 19.7 38.15N 41.08E 7 2.7
CSEM V 23 21 37 19.6–.38 38.13N 41.19E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=8.3km az=50.0.
ISC V 23 22 15 48.0–1.0 39.12N–.03 29.08E–.02 7–10 57 0-2
ISCJB V 23 22 15 47.5–.57 39.13N–.04 29.07E–.03 0–6 ¶16854785
CSEM V 23 22 15 47.7–.08 39.12N 29.07E 2 2.7
ISK V 23 22 15 47.3 39.12N 29.08E 5 2.9
DDA V 23 22 15 47.5 39.13N 29.07E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=176.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=170.0.
ISC V 23 22 58 40.1–1.1 39.11N–.03 29.04E–.02 8–12 36 0-2
ISCJB V 23 22 58 39.8–.59 39.12N–.04 29.03E–.04 3–7 ¶16854786
CSEM V 23 22 58 39.8–.06 39.11N 29.03E 5 2.6
ISK V 23 22 58 39.3 39.11N 29.07E 6 2.7
DDA V 23 22 58 39.5 39.12N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.6km az=167.3.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=151.0.
ISC V 23 23 25 27.7–.99 39.12N–.03 28.98E–.02 7–10 44 0-2
ISCJB V 23 23 25 27.4–.57 39.13N–.04 28.97E–.04 3–6 ¶16854787
CSEM V 23 23 25 27.5–.11 39.11N 28.98E 5 2.7
DDA V 23 23 25 27.1 39.13N 28.97E 7 2.7
ISK V 23 23 25 27.1 39.10N 29.03E 9 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=177.8.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=175.0.
ISC V 23 23 54 54.1–.90 39.06N–.02 27.16E–.02 14–7 73 0-3
ISCJB V 23 23 54 54.6–.48 39.10N–.03 27.14E–.02 9–4 ¶16854789
ISK V 23 23 54 54.0 39.07N 27.17E 8 2.7
DDA V 23 23 54 54.4 39.12N 27.16E 14 2.8L
ATH V 23 23 54 54.5 39.05N 27.09E 28–1 2.0L
CSEM V 23 23 54 54.7–.17 39.07N 27.15E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=14.6.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.2km az=263.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.2km az=10.0.
ISC V 24 00 07 21.6–.89 39.10N–.02 29.04E–.02 13–7 101 0-2
ISK V 24 00 07 21.2 39.10N 29.04E 5 3.0 ¶602862057
DDA V 24 00 07 21.1 38.98N 29.08E 7 3.2
CSEM V 24 00 07 22.2–.14 39.08N 29.05E 2 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=164.0.
ISC V 24 00 19 13.9–.88 39.05N–.02 27.14E–.02 15–6 103 0-3
DDA V 24 00 19 13.8 39.11N 27.16E 8 3.3 ¶16854796
ISK V 24 00 19 13.1 39.07N 27.16E 5 2.9
ATH V 24 00 19 13.8 39.05N 27.13E 33–3 2.0L
ISCJB V 24 00 19 14.1–.43 39.05N–.02 27.13E–.02 9–3 2.0L
CSEM V 24 00 19 14.2–.14 39.02N 27.13E 10 2.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.3km az=252.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=8.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=2.0.
ISC V 24 00 36 35.1–.94 39.11N–.03 28.96E–.03 18–8 25 0-1
ISK V 24 00 36 34.4 39.13N 28.93E 5 2.5 ¶16854797
ISCJB V 24 00 36 35.6–.57 39.08N–.04 28.97E–.04 13–7 2.5

CSEM	V	24 00 36 35.4–.17	39.13N	28.94E	8	2.6			
DDA	V	24 00 36 35.6	39.09N	28.98E	7	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=174.6.								
CSEM	Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=140.0.								
ISC	**V**	**24 00 48 49.2–.95**	**39.06N–.03**	**29.05E–.03**	**13–9**		**30**	**0-2**	
ISK	V	24 00 48 48.2	39.01N	29.18E	16	2.4			¶16854798
ISCJB	V	24 00 48 49.3–.58	39.07N–.04	29.04E–.04	5–7	2.4			
DDA	V	24 00 48 49.2	39.08N	29.05E	7	2.7			
CSEM	V	24 00 48 49.3–.17	39.06N	29.04E	8	2.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=162.5.								
CSEM	Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=144.0.								
ISC	**V**	**24 01 01 26.1–.89**	**39.12N–.02**	**29.05E–.02**	**13–8**		**54**	**0-2**	
DDA	V	24 01 01 25.5	39.16N	29.05E	7	2.7			¶16854799
ISK	V	24 01 01 25.9	39.10N	29.01E	9	2.7			
CSEM	V	24 01 01 26.2–.11	39.11N	29.06E	5	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=156.0.								
ISC	**V**	**24 01 05 37.8–.88**	**39.11N–.02**	**29.05E–.02**	**15–7**		**95**	**0-2**	
ISK	V	24 01 05 37.4	39.09N	29.07E	5	3.0			¶16854800
DDA	V	24 01 05 37.5	39.14N	29.04E	4	3.1			
CSEM	V	24 01 05 38.5–.13	39.09N	29.07E	2	3.1			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=8.0.								
ISC	**V**	**24 01 09 02.7–1.1**	**39.09N–.04**	**28.98E–.03**	**15–11**		**34**	**0-1**	
ISK	V	24 01 09 02.6	39.09N	29.04E	6	2.6			¶16854801
ISCJB	V	24 01 09 03.5–.53	39.09N–.04	29.00E–.04	7–7	2.6			
CSEM	V	24 01 09 03.4–.17	39.10N	28.99E	8	2.6			
DDA	V	24 01 09 03.2	39.15N	28.99E	7	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=160.1.								
CSEM	Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=140.0.								
ISC	**V**	**24 01 13 04.8–1.0**	**39.10N–.04**	**29.00E–.03**	**12–9**		**25**	**0-2**	
ISCJB	V	24 01 13 05.0–.58	39.08N–.04	29.00E–.04	7–9				¶16854802
CSEM	V	24 01 13 04.8–.16	39.13N	28.97E	5	2.6			
DDA	V	24 01 13 04.7	39.05N	29.02E	7	2.6			
ISK	V	24 01 13 04.2	39.07N	29.07E	11	2.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=170.7.								
CSEM	Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=145.0.								
ISC	**V**	**24 01 42 36.5–.98**	**39.07N–.02**	**29.12E–.02**	**8–9**		**84**	**0-2**	
ISK	V	24 01 42 35.5	39.12N	29.16E	5	3.0			¶16854804
DDA	V	24 01 42 36.2	39.05N	29.13E	7	2.8			
CSEM	V	24 01 42 36.6–.13	39.11N	29.14E	2	2.8			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=162.0.								
ISC	**V**	**24 01 45 44.4–1.1**	**39.09N–.02**	**29.08E–.02**	**2–10**		**99**	**0-3**	
ISK	V	24 01 45 43.3	39.08N	29.08E	5	3.1			¶16854805
DDA	V	24 01 45 43.1	39.07N	29.07E	20	2.9			
ISCJB	V	24 01 45 44.3–.50	39.07N–.02	29.06E–.02	1–4	2.9			
CSEM	V	24 01 45 44.6–.12	39.08N	29.06E	2	2.9			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=171.4.								
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=125.0.								
ISC	**V**	**24 01 48 20.2–1.1**	**39.10N–.04**	**29.07E–.03**	**14–11**		**24**	**0-2**	
CSEM	V	24 01 48 20.0–.23	39.09N	29.08E	8	2.7			¶601585332
DDA	V	24 01 48 20.1	39.09N	29.07E	7	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=151.0.								
ISC	**V**	**24 01 57 19.2–1.0**	**39.07N–.04**	**29.05E–.03**	**14–9**		**32**	**0-2**	
ISK	V	24 01 57 18.9	39.17N	29.02E	5	2.6			¶16854806
ISCJB	V	24 01 57 19.8–.60	39.13N–.05	29.06E–.04	7–8	2.6			
CSEM	V	24 01 57 19.9–.21	39.13N	29.07E	8	2.6			
DDA	V	24 01 57 19.7	39.09N	29.07E	7	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.2km s-min=4.8km az=8.8.								
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=172.0.								
ISC	**V**	**24 02 03 08.7–1.1**	**39.09N–.03**	**29.05E–.03**	**4–11**		**31**	**0-2**	
ISK	V	24 02 03 07.6	39.05N	29.13E	5	2.6			¶16854808
DDA	V	24 02 03 07.9	38.99N	29.05E	7	2.6			
ISCJB	V	24 02 03 08.5–.59	39.06N–.04	29.06E–.04	3–8	2.6			
CSEM	V	24 02 03 08.4–.11	39.08N	29.03E	5	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.5km az=159.3.								
CSEM	Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=140.0.								
ISC	**V**	**24 02 07 26.0–1.0**	**38.99N–.06**	**29.06E–.04**	**16–8**		**18**	**0-1**	
CSEM	V	24 02 07 25.8	38.92N	29.05E	7	2.6			¶601585335
DDA	V	24 02 07 25.8	38.92N	29.05E	7	2.6			
ISCJB	V	24 02 07 27.4–.67	39.02N–.05	29.06E–.05	6–12	2.6			
ISC	Event type ke.								
CSEM	Event type ke.								
ISCJB	Event type ke.								
ISC	**V**	**24 02 14 07.3–.95**	**39.09N–.03**	**29.06E–.02**	**14–9**		**36**	**0-2**	
ISK	V	24 02 14 07.3	39.11N	29.09E	5	2.8			¶16854809
DDA	V	24 02 14 07.0	39.13N	29.05E	7	2.7			
CSEM	V	24 02 14 07.6–.16	39.10N	29.07E	5	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=150.0.								
ISC	**V**	**24 02 42 15.9–1.0**	**39.11N–.02**	**29.09E–.02**	**4–10**		**74**	**0-2**	
CSEM	V	24 02 42 15.8–.18	39.10N	29.10E	0–2	2.7			¶16854811
ISK	V	24 02 42 15.5	39.08N	29.17E	5	2.8			
DDA	V	24 02 42 15.2	39.04N	29.08E	3	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=167.0.								
ISC	**V**	**24 02 49 59.2–.96**	**39.06N–.04**	**29.09E–.02**	**9**		**35**	**0-2**	
ISK	V	24 02 49 58.7	39.08N	29.12E	6	2.8			¶16854812
DDA	V	24 02 49 58.8	39.02N	29.08E	7	2.9			
ISCJB	V	24 02 49 59.2–.60	39.07N–.05	29.07E–.04	9	2.9			
CSEM	V	24 02 49 59.3–.14	39.08N	29.08E	5	2.9			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=3.9km az=163.7.								
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=150.0.								
ISC	**V**	**24 02 55 30.3–.93**	**39.12N–.02**	**29.01E–.01**	**7–6**	**4.0b,3.4s**	**531**	**0-75**	
ISN	V	24 02 55 27.8–1.0	39.10N	29.10E	10–86	4.2L,3.4s			¶16544911
DDA	V	24 02 55 28.9	39.10N	29.02E	17	4.2L,3.4s			
IDC	V	24 02 55 28.9–.74	39.12N	29.06E	0	4.1,4.0			
ISK	V	24 02 55 29.4	39.10N	29.03E	9	4.2L,4.0			
MOS	V	24 02 55 29.5–1.3	39.15N	29.04E	13	4.3b,4.0			
NEIC	V	24 02 55 29.6	39.10N	28.96E	5	4.2L,4.2b			
ISCJB	V	24 02 55 29.8–.34	39.12N–.01	29.02E–.01	11–2	4.0b,3.4s			
THE	V	24 02 55 30.3	39.09N	29.03E	0–0	4.3L,3.4s			
CSEM	V	24 02 55 30.1–.06	39.10N	29.01E	5	4.1b,3.4s			
ISC	Event type ke.								
ISN	Error ellipse: s-maj=29.0km s-min=84.4km az=-1.0.								
DDA	Event type ke.								
IDC	Error ellipse: s-maj=13.8km s-min=11.4km az=33.0.								
MOS	Error ellipse: s-maj=7.2km s-min=4.4km az=82.1.								
NEIC	Event type se. After ISK.								
ISCJB	Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=15.6.								
THE	Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=76.0.								
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=1.0.								
ISC	**V**	**24 02 57 27.5–1.1**	**39.08N–.03**	**29.03E–.02**	**4–12**		**60**	**0-2**	
DDA	V	24 02 57 26.8	39.06N	29.02E	7	2.7			¶16854813
ISK	V	24 02 57 27.6	39.07N	29.09E	5	2.8			
CSEM	V	24 02 57 27.8–.14	39.07N	29.05E	2	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=149.0.								
ISC	**V**	**24 03 03 12.1–.99**	**39.10N–.03**	**29.00E–.02**	**8–10**		**49**	**0-2**	
ISCJB	V	24 03 03 11.7–.52	39.08N–.03	29.01E–.04	3–7				¶16854815
CSEM	V	24 03 03 11.9–.07	39.09N	29.00E	5	2.7L			
ISK	V	24 03 03 11.5	39.09N	29.00E	6	2.8			
DDA	V	24 03 03 11.5	39.08N	29.02E	7	2.7L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=171.8.								
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=151.0.								
ISC	**V**	**24 03 06 00.5–.91**	**39.09N–.03**	**29.01E–.02**	**14–9**		**49**	**0-2**	
ISK	V	24 03 05 59.6	39.10N	28.97E	8	2.8			¶16854816
ISCJB	V	24 03 06 00.0–.47	39.09N–.03	29.00E–.04	7–6	2.8			
CSEM	V	24 03 06 00.2–.07	39.09N	29.00E	8	2.6L			
DDA	V	24 03 06 00.1	39.11N	29.03E	7	2.6L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=173.1.								
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=111.0.								
ISC	**V**	**24 03 08 18.6–.95**	**39.07N–.03**	**29.02E–.03**	**16–8**		**34**	**0-2**	
ISK	V	24 03 08 18.5	39.06N	29.04E	6	2.7			¶16854817
DDA	V	24 03 08 18.7	39.10N	29.03E	7	2.2L			
CSEM	V	24 03 08 19.0–.11	39.08N	29.03E	5	2.2L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=145.0.								
ISC	**V**	**24 03 11 36.7–.90**	**39.10N–.03**	**29.01E–.02**	**14–8**		**50**	**0-2**	
DDA	V	24 03 11 36.4	39.15N	29.02E	7	2.7L			¶16854818
CSEM	V	24 03 11 37.3–.11	39.11N	29.01E	2	2.7L			
ISK	V	24 03 11 37.0	39.09N	28.99E	5	2.9			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=164.0.								
ISC	**V**	**24 03 18 14.2–.86**	**38.27N–.02**	**42.89E–.03**	**13–6**		**43**	**0-2**	
ISK	V	24 03 18 12.7	38.28N	42.87E	4	3.0			¶16854819
ISCJB	V	24 03 18 14.3–.66	38.23N–.03	42.90E–.05	7–6	3.0			
CSEM	V	24 03 18 14.0–.14	38.28N	42.92E	12	2.6			
DDA	V	24 03 18 14.1	38.30N	42.84E	7	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=25.1.								
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=133.0.								
ISC	**V**	**24 03 20 14.7–.86**	**39.11N–.03**	**29.03E–.02**	**9**		**44**	**0-2**	
ISK	V	24 03 20 13.8	39.13N	29.06E	3	2.9			¶16854820
ISCJB	V	24 03 20 14.5–.47	39.11N–.04	29.03E–.03	9	2.9			
DDA	V	24 03 20 14.8	39.19N	29.07E	7	2.3			
CSEM	V	24 03 20 14.6–.13	39.11N	29.04E	8	2.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=170.6.								
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=172.0.								
ISC	**V**	**24 03 23 32.2–1.1**	**39.09N–.03**	**29.00E–.03**	**5–11**		**40**	**0-2**	
ISCJB	V	24 03 23 31.3–.66	39.09N–.05	29.03E–.05	0–9				¶16854821
ISK	V	24 03 23 31.2	39.07N	29.03E	6	2.8			
DDA	V	24 03 23 31.4	38.93N	29.04E	7	2.3			
CSEM	V	24 03 23 31.7–.07	39.09N	29.03E	2	2.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=5.7km az=159.6.								
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=136.0.								
ISC	**V**	**24 03 27 01.6–.91**	**39.11N–.03**	**29.02E–.03**	**9**		**28**	**0-2**	
ISCJB	V	24 03 27 02.6–.52	39.12N–.04	28.99E–.04	9				¶16854822
ISK	V	24 03 27 02.2	39.13N	28.95E	10	2.7			
CSEM	V	24 03 27 03.0–.23	39.11N	29.00E	12	2.7			
DDA	V	24 03 27 03.0	39.01N	29.03E	7	2.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=150.8.								
CSEM	Event type ke. Error ellipse: s-maj=5.8km s-min=5.2km az=69.0.								
ISC	**V**	**24 03 39 56.7–1.0**	**39.11N–.03**	**29.07E–.02**	**7–11**		**60**	**0-2**	
CSEM	V	24 03 39 56.7–.09	39.10N	29.09E	5	2.5			¶16854824
ISK	V	24 03 39 56.2	39.08N	29.09E	7	2.8			
DDA	V	24 03 39 56.2	39.13N	29.09E	7	2.5			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=145.0.								
ISC	**V**	**24 03 41 15.8–.97**	**39.12N–.03**	**29.09E–.02**	**8–10**		**60**	**0-2**	
ISCJB	V	24 03 41 15.4–.51	39.11N–.03	29.08E–.03	3–6				¶16854825
DDA	V	24 03 41 15.6	39.07N	29.10E	7	2.0			
ISK	V	24 03 41 15.1	39.10N	29.09E	8	2.7			
CSEM	V	24 03 41 15.5–.06	39.12N	29.09E	5	2.7L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=162.3.								
CSEM	Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=143.0.								
ISC	**V**	**24 04 04 20.9–1.1**	**39.12N–.03**	**29.03E–.02**	**4–13**		**52**	**0-2**	
ISCJB	V	24 04 04 20.5–.52	39.11N–.04	29.02E–.03	3–6				¶16854826
CSEM	V	24 04 04 20.7–.10	39.11N	29.04E	2	2.4			
ISK	V	24 04 04 20.3	39.10N	29.08E	5	2.8			
DDA	V	24 04 04 20.5	39.13N	29.02E	7	2.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.4km s-min=3.7km az=168.3.								
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=161.0.								
ISC	**V**	**24 04 28 01.7–.94**	**39.07N–.03**	**29.09E–.02**	**14–8**		**56**	**0-2**	
DDA	V	24 04 28 01.7	39.15N	29.04E	8	2.4			¶16854827
ISK	V	24 04 28 01.4	39.10N	29.05E	5	2.9			
ISCJB	V	24 04 28 02.2–.52	39.08N–.04	29.06E–.03	5–5	2.9			
CSEM	V	24 04 28 02.4–.12	39.08N	29.06E	5	2.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=166.5.								
CSEM	Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=157.0.								
ISC	**V**	**24 04 55 49.9–1.0**	**39.05N–.02**	**29.08E–.02**	**7–9**		**153**	**0-4**	
DDA	V	24 04 55 43.8	39.23N	29.15E	19	3.5L			¶16854830
THE	V	24 04 55 49.4	38.91N	29.34E	25–5	3.2L			
ISCJB	V	24 04 55 50.1–.47	39.06N–.02	29.10E–.02	5–4	3.2L			
ISK	V	24 04 55 50.0	39.06N	29.12E	5	3.4L			
CSEM	V	24 04 55 50.5–.09	39.07N	29.10E	2	3.5L			
ISC	Event type ke.								
THE	Event type ke. Error ellipse: s-maj=5.7km s-min=0.9km az=104.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.6km s-min=3.0km az=161.7.								
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=138.0.								
ISC	**V**	**24 05 09 29.0–1.0**	**39.14N–.03**	**29.07E–.03**	**11–10**		**45**	**0-2**	
ISCJB	V	24 05 09 28.8–.44	39.14N–.03	29.07E–.04	9–6				¶16854831
ISK	V	24 05 09 28.1	39.14N	29.08E	11	2.6L			
CSEM	V	24 05 09 29.0–.15	39.14N	29.07E	12	2.4			
DDA	V	24 05 09 29.4	39.00N	29.12E	7	2.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=156.3.								
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=131.0.								
ISC	**V**	**24 05 15 33.8–.91**	**39.13N–.03**	**29.05E–.02**	**18–6**		**57**	**0-2**	
ISCJB	V	24 05 15 33.6–.42	39.14N–.04	29.02E–.03	10–5				¶16854832
CSEM	V	24 05 15 33.8–.15	39.14N	29.03E	12	2.6			
ISK	V	24 05 15 33.0	39.13N	29.01E	15	2.6L			
DDA	V	24 05 15 34.2	39.04N	29.08E	8	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=160.8.								
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=146.0.								
ISC	**V**	**24 05 31 59.8–1.1**	**39.10N–.03**	**29.03E–.02**	**3–13**		**40**	**0-2**	
CSEM	V	24 05 31 59.5–.14	39.09N	29.04E	2	2.7			¶16854833
ISK	V	24 05 31 59.0	39.06N	29.11E	5	2.4L			
DDA	V	24 05 31 59.1	39.12N	29.02E	7	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=116.0.								
ISC	**V**	**24 05 37 39.7–.95**	**39.06N–.03**	**29.08E–.02**	**12–10**		**47**	**0-2**	
ISK	V	24 05 37 39.5	39.07N	29.09E	5	2.2L			¶16854834
DDA	V	24 05 37 40.2	39.11N	29.06E	7	2.6L			
CSEM	V	24 05 37 40.1–.13	39.07N	29.07E	5	2.6L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=144.0.								
ISC	**V**	**24 06 10 30.3–.98**	**39.09N–.02**	**29.03E–.02**	**7–9**		**66**	**0-2**	
ISCJB	V	24 06 10 29.8–.50	39.09N–.03	29.03E–.03	1–5				¶16854835
ISK	V	24 06 10 29.5	39.08N	29.05E	6	2.8L			
DDA	V	24 06 10 29.7	39.13N	29.03E	6	3.1			
CSEM	V	24 06 10 30.1–.08	39.08N	29.04E	5	3.1			
ISC	Event type ke.								

ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=163.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=154.0.
ISC V 24 06 26 22.0–1.0 39.09N–.03 29.01E–.02 7–12 38 0-2
DDA V 24 06 26 21.8 39.09N 29.00E 7 2.8 ¶16854836
CSEM V 24 06 26 21.9–.18 39.08N 29.01E 5 2.8
ISK V 24 06 26 21.0 39.05N 29.11E 6 2.3L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=147.0.
ISC V 24 06 32 56.1–1.0 39.04N–.02 29.05E–.02 10–10 60 0-2
ISK V 24 06 32 55.7 39.05N 29.07E 5 2.5L ¶16854837
ISCJB V 24 06 32 56.3–.50 39.06N–.03 29.04E–.03 3–5 2.5L
DDA V 24 06 32 56.6 39.07N 29.03E 7 2.8
CSEM V 24 06 32 56.4–.11 39.05N 29.04E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.6km az=160.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=147.0.
DDA V 24 06 33 05.5 40.66N 34.62E 7 2.7
CSEM V 24 06 33 05.5 40.66N 34.62E 7 2.7 ¶601585357
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 24 06 46 31.3–1.1 39.16N–.04 29.14E–.03 5–11 22 0-1
DDA V 24 06 46 31.2 39.16N 29.09E 7 2.6 ¶601585358
CSEM V 24 06 46 31.3–.21 39.16N 29.12E 5 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=153.0.
ISC V 24 06 51 02.9–1.0 39.06N–.03 29.08E–.03 10–10 32 0-2
ISK V 24 06 51 02.6 39.06N 29.10E 5 2.5 ¶16854838
ISCJB V 24 06 51 03.5–.56 39.08N–.04 29.05E–.04 5–7 2.5
CSEM V 24 06 51 03.6–.18 39.09N 29.05E 8 2.8
DDA V 24 06 51 03.5 39.07N 29.03E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=144.0.
DDA Event type ke.
ISC V 24 07 06 15.1–1.0 39.06N–.05 29.11E–.04 14–9 27 0-2
DDA V 24 07 06 14.9 38.93N 29.09E 7 2.9 ¶16854839
CSEM V 24 07 06 15.8–.12 39.10N 29.08E 2 2.9
ISK V 24 07 06 16.0 39.09N 29.19E 9 2.3L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=33.0.
ISC V 24 07 21 14.3–.97 39.08N–.03 29.03E–.03 13–10 30 0-1
ISCJB V 24 07 21 14.2–.58 39.08N–.04 29.03E–.04 7–7 ¶16854840
DDA V 24 07 21 14.2 39.09N 29.02E 7 2.8
CSEM V 24 07 21 14.2–.09 39.07N 29.03E 8 2.8
ISK V 24 07 21 15.0 39.11N 29.10E 14 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=156.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=134.0.
ISC V 24 08 57 16.5–.97 39.11N–.02 29.01E–.02 10–9 112 0-3
DDA V 24 08 57 15.9 39.10N 29.02E 3 3.6L ¶16854842
ISK V 24 08 57 15.8 39.10N 29.04E 8 3.1
ISCJB V 24 08 57 16.0–.48 39.11N–.02 29.03E–.03 3–4 3.1
CSEM V 24 08 57 16.2–.07 39.10N 29.02E 5 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=167.5.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=100.0.
ISC V 24 09 11 39.7–.91 39.09N–.03 29.04E–.02 9 41 0-1
ISK V 24 09 11 38.9 39.08N 29.02E 6 2.5L ¶16854847
ISCJB V 24 09 11 39.4–.47 39.07N–.03 29.04E–.05 9 2.5L
CSEM V 24 09 11 39.4–.09 39.09N 29.05E 4–1 3.0L
DDA V 24 09 11 39.8 39.08N 29.06E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=26.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=169.0.
ISC V 24 09 13 56.1–1.0 39.13N–.04 29.04E–.03 9 20 0-1
ISCJB V 24 09 13 56.6–.70 39.10N–.05 29.01E–.04 9 ¶601585382
DDA V 24 09 13 56.6 39.06N 29.01E 7 2.6
CSEM V 24 09 13 56.8–.15 39.11N 29.01E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=169.5.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=144.0.
ISC V 24 09 18 46.7–.99 39.12N–.03 29.04E–.03 15–11 32 0-1
ISK V 24 09 18 46.7 39.10N 29.01E 13 2.3L ¶16854848
ISCJB V 24 09 18 47.3–.55 39.10N–.03 29.04E–.04 11–5 2.3L
CSEM V 24 09 18 47.3–.12 39.10N 29.03E 12 2.7
DDA V 24 09 18 47.6 39.06N 29.06E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.0km az=143.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=116.0.
ISC V 24 09 24 14.8–.98 39.09N–.04 29.09E–.03 11–10 25 0-1
ISCJB V 24 09 24 15.0–.60 39.13N–.05 29.05E–.04 10–7 ¶601585384
CSEM V 24 09 24 15.3–.17 39.12N 29.06E 5 2.7
DDA V 24 09 24 15.2 39.07N 29.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.3km az=159.6.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=124.0.
ISC V 24 10 37 34.5–.88 39.11N–.02 28.97E–.02 15–8 61 0-2
ISK V 24 10 37 33.7 39.11N 28.97E 9 2.6L ¶16854855
ISCJB V 24 10 37 34.3–.43 39.11N–.03 28.98E–.03 6–5 2.6L
DDA V 24 10 37 34.4 39.11N 29.01E 7 2.6
CSEM V 24 10 37 34.5–.10 39.11N 28.97E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=153.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=127.0.
ISC V 24 11 05 46.0–.92 39.12N–.02 29.02E–.02 13–9 66 0-2
DDA V 24 11 05 45.7 39.13N 29.01E 7 2.9 ¶16854857
ISK V 24 11 05 45.7 39.12N 29.01E 6 2.5L
CSEM V 24 11 05 46.1–.11 39.14N 29.02E 0–1 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=17.0.
ISC V 24 11 19 06.5–1.0 39.13N–.03 29.12E–.03 13–9 28 0-1
ISK V 24 11 19 05.8 39.18N 29.04E 3 2.4L ¶16854860
ISCJB V 24 11 19 06.9–.55 39.15N–.03 29.06E–.04 8–5 2.4L
CSEM V 24 11 19 06.8–.18 39.14N 29.09E 5 2.7
DDA V 24 11 19 07.4 39.11N 29.06E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=140.9.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=125.0.
DDA Event type ke.
ISC V 24 11 27 00.8–.89 39.08N–.02 29.02E–.02 13–7 47 0-1
ISCJB V 24 11 27 00.7–.50 39.08N–.03 29.02E–.03 5–6 ¶16854861
ISK V 24 11 27 00.4 39.09N 29.02E 7 2.4L
CSEM V 24 11 27 00.8–.10 39.10N 29.02E 2 2.9
DDA V 24 11 27 00.4 39.09N 29.02E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=169.3.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=82.0.
DDA Event type ke.
ISC V 24 11 30 59.2–1.0 39.14N–.04 29.04E–.04 11–12 27 0-1
ISCJB V 24 11 30 59.5–.59 39.14N–.04 29.08E–.04 10–7 ¶601585408
CSEM V 24 11 30 59.3–.21 39.13N 29.10E 15 2.6
DDA V 24 11 31 00.1 39.09N 29.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.2km az=156.8.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=122.0.

DDA Event type ke.
ISC V 24 11 33 54.2–1.5 40.08N–.05 27.28E–.04 2–12 24 0-1
ISK V 24 11 33 54.4 39.90N 26.96E 5 2.3L ¶16854862
ISCJB V 24 11 33 55.4–.68 40.12N–.04 27.27E–.05 3–7 2.3L
DDA V 24 11 33 55.7 40.13N 27.34E 7 2.6
CSEM V 24 11 33 55.3–.38 39.98N 27.13E 12 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.6km az=40.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=20.9km s-min=3.8km az=40.0.
ISC V 24 11 41 45.5–.95 39.08N–.03 29.05E–.03 11–9 31 0-1
ISCJB V 24 11 41 45.6–.56 39.09N–.03 29.03E–.04 9–5 ¶16854863
DDA V 24 11 41 45.5 39.08N 29.03E 7 2.9
CSEM V 24 11 41 45.4–.17 39.09N 29.04E 8 2.9
ISK V 24 11 41 45.0 39.07N 29.07E 11 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=139.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=117.0.
ISC V 24 11 46 50.7–.98 39.09N–.02 29.09E–.02 8–9 53 0-2
ISCJB V 24 11 46 50.7–.46 39.08N–.03 29.10E–.03 5–5 ¶16854864
DDA V 24 11 46 50.3 39.11N 29.08E 7 3.0L
ISK V 24 11 46 50.3 39.06N 29.12E 7 2.5L
CSEM V 24 11 46 50.8–.15 39.09N 29.11E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=3.0km az=110.0.
ISC V 24 11 50 19.6–1.3 37.35N–.03 28.03E–.05 8–13 23 0-1
ISCJB V 24 11 50 20.8–.67 37.30N–.04 28.08E–.07 15–6 ¶16854865
DDA V 24 11 50 20.4 37.35N 28.11E 7 2.9
ISK V 24 11 50 21.3 37.29N 28.11E 4 2.6
CSEM V 24 11 50 21.3–.27 37.35N 28.14E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=4.8km az=149.7.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.0km az=53.0.
ISC V 24 12 06 15.7–1.5 39.93N–.03 38.85E–.03 3–13 34 0-1
ISCJB V 24 12 06 16.4–.53 39.93N–.03 38.82E–.04 5–7 ¶16854866
DDA V 24 12 06 16.3 39.92N 38.82E 15 2.6L
CSEM V 24 12 06 16.5–.21 39.91N 38.83E 10 2.8
ISK V 24 12 06 17.1 39.95N 38.91E 21 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=15.4.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=123.0.
ISC V 24 12 12 26.9–1.2 38.72N–.03 39.35E–.06 17–9 22 0-2
ISCJB V 24 12 12 27.5–.95 38.72N–.04 39.4E–.10 7–11 ¶601585421
DDA V 24 12 12 27.0 38.70N 39.31E 10 2.6L
CSEM V 24 12 12 27.2–.32 38.73N 39.31E 10 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=5.5km az=21.6.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=5.4km az=100.0.
ISC V 24 12 28 55.2–1.0 39.07N–.03 29.02E–.02 6–10 42 0-2
ISCJB V 24 12 28 55.0–.57 39.08N–.04 29.03E–.03 5–7 ¶16854868
DDA V 24 12 28 54.6 39.08N 29.01E 7 2.8L
CSEM V 24 12 28 55.2–.11 39.09N 29.04E 5 2.8L
ISK V 24 12 28 55.1 39.10N 29.04E 9 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.4km az=170.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=115.0.
ISC V 24 12 42 25.0–.91 39.08N–.02 29.04E–.02 12–8 47 0-2
ISK V 24 12 42 24.4 39.04N 29.11E 6 2.6L ¶16854869
ISCJB V 24 12 42 25.1–.43 39.07N–.03 29.05E–.03 6–6 2.6L
CSEM V 24 12 42 25.2–.11 39.08N 29.04E 5 2.7L
DDA V 24 12 42 25.1 39.07N 29.03E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.1km az=44.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=110.0.
ISC V 24 12 43 53.0–.98 39.08N–.02 29.01E–.02 8–10 57 0-2
ISCJB V 24 12 43 52.5–.45 39.08N–.03 29.02E–.03 2–7 ¶16854870
CSEM V 24 12 43 52.9–.08 39.08N 29.03E 2 2.7L
ISK V 24 12 43 52.4 39.05N 29.01E 8 2.7L
DDA V 24 12 43 52.3 39.09N 29.02E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=15.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=105.0.
ISC V 24 12 59 00.1–.90 39.09N–.03 29.03E–.03 15–8 35 0-1
ISCJB V 24 12 59 00.4–.53 39.09N–.03 29.01E–.04 6–8 ¶16854871
CSEM V 24 12 59 00.5–.12 39.10N 29.00E 7–1 2.6L
ISK V 24 12 59 00.1 39.08N 29.08E 9 2.4
DDA V 24 12 59 00.5 39.10N 29.01E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=141.5.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=122.0.
ISC V 24 13 04 46.7–1.0 39.11N–.02 29.05E–.02 6–9 88 0-2
ISK V 24 13 04 45.8 39.10N 29.02E 2 2.9L ¶16854872
DDA V 24 13 04 46.0 39.11N 29.06E 7 3.1L
CSEM V 24 13 04 46.9–.11 39.11N 29.04E 2 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=140.0.
ISC V 24 13 08 26.9–.90 39.09N–.02 29.01E–.02 13–8 46 0-2
ISCJB V 24 13 08 26.6–.43 39.08N–.03 29.02E–.04 5–6 ¶16854873
DDA V 24 13 08 26.9 39.08N 29.02E 11 2.8L
ISK V 24 13 08 26.2 39.09N 29.02E 7 2.5L
CSEM V 24 13 08 26.9–.07 39.09N 29.02E 8 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=136.5.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=110.0.
ISC V 24 13 25 17.0–1.1 39.10N–.04 28.99E–.03 28–9 22 0-1
DDA V 24 13 25 18.2 39.08N 29.02E 7 2.6L ¶601585427
CSEM V 24 13 25 18.2–.17 39.11N 29.01E 8 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=140.0.
ISC V 24 13 57 44.4–1.1 39.08N–.03 29.02E–.03 14–10 30 0-1
ISK V 24 13 57 44.7 39.05N 29.15E 9 2.6 ¶16854876
ISCJB V 24 13 57 45.4–.51 39.09N–.03 29.03E–.04 11–5 2.6
DDA V 24 13 57 45.2 39.12N 29.03E 7 2.6L
CSEM V 24 13 57 45.8–.16 39.12N 29.05E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=32.6.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=69.0.
ISC V 24 15 05 07.1–.96 39.04N–.03 29.01E–.02 9–8 48 0-2
DDA V 24 15 05 06.9 39.10N 29.03E 7 2.8 ¶16854881
CSEM V 24 15 05 06.7–.13 38.95N 29.05E 8 2.8
ISCJB V 24 15 05 07.5–.54 39.05N–.04 29.02E–.04 6–7 2.8
ISK V 24 15 05 08.4 39.06N 28.99E 16 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=150.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.0km az=10.8.
ISC V 24 15 44 55.1–1.2 39.01N–.03 29.14E–.03 1–12 46 0-2
ISCJB V 24 15 44 56.2–.45 39.05N–.03 29.05E–.04 5–6 ¶16854883
CSEM V 24 15 44 56.6–.23 39.06N 29.09E 8 2.7
ISK V 24 15 44 56.0 39.03N 29.21E 13 2.7
DDA V 24 15 44 56.1 39.08N 29.02E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=147.8.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=78.0.
ISC V 24 15 46 07.3–.89 39.06N–.02 28.98E–.02 15–8 46 0-2
ISCJB V 24 15 46 07.4–.46 39.06N–.03 28.99E–.04 6–7 ¶16854884
CSEM V 24 15 46 07.6–.13 39.06N 28.98E 8 2.8
ISK V 24 15 46 07.2 39.09N 28.97E 6 2.7
DDA V 24 15 46 07.4 39.10N 29.02E 7 2.8
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=173.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=114.0.
ISC V 24 16 13 15.8–.89 39.12N–.02 29.10E–.02 14–7 58 0-2
ISCJB V 24 16 13 15.7–.50 39.11N–.03 29.10E–.03 3–6 ¶16854886
CSEM V 24 16 13 15.9–.10 39.11N 29.11E 5 2.6
ISK V 24 16 13 15.4 39.12N 29.13E 5 2.9
DDA V 24 16 13 15.8 39.11N 29.11E 9 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=158.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=147.0.
ISC V 24 16 40 16.9–.97 39.11N–.01 29.09E–.02 7–8 231 0-8
ISK V 24 16 40 15.4 39.10N 29.15E 5 3.5L ¶16854887
ISCJB V 24 16 40 16.5–.39 39.10N–.01 29.08E–.02 6–3 3.5L
DDA V 24 16 40 16.3 39.12N 29.09E 7 3.6L
CSEM V 24 16 40 16.8–.08 39.09N 29.10E 5 3.6L
THE V 24 16 40 17.5 39.05N 29.00E 2–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=5.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=80.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=96.0.
ISC V 24 16 54 07.7–.98 39.16N–.01 29.14E–.02 7–9 147 0-3
ISK V 24 16 54 06.7 39.14N 29.14E 5 3.1L ¶16854889
DDA V 24 16 54 07.2 39.14N 29.15E 12 3.6L
CSEM V 24 16 54 07.9–.10 39.15N 29.15E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=73.0.
ISC V 24 16 58 33.8–1.0 39.14N–.02 29.10E–.02 6–11 74 0-2
ISK V 24 16 58 32.8 39.13N 29.08E 4 2.9 ¶16854890
CSEM V 24 16 58 33.5–.09 39.13N 29.10E 5 3.1L
DDA V 24 16 58 33.3 39.12N 29.10E 5 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=171.0.
ISC V 24 17 01 40.8–.89 39.11N–.04 29.12E–.03 9 23 0-2
ISCJB V 24 17 01 40.8–.56 39.09N–.04 29.07E–.04 9 ¶16854891
DDA V 24 17 01 40.6 39.13N 29.11E 7 2.7
CSEM V 24 17 01 40.8–.17 39.10N 29.05E 8 2.7
ISK V 24 17 01 40.2 39.12N 28.97E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=139.8.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=92.0.
ISC V 24 17 17 06.4–.90 39.07N–.02 29.02E–.02 12–9 48 0-2
CSEM V 24 17 17 06.4–.09 39.08N 29.01E 2 2.6 ¶16854892
ISK V 24 17 17 06.2 39.04N 29.04E 9 2.7
DDA V 24 17 17 06.1 39.08N 29.02E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=61.0.
ISC V 24 17 25 11.7–.89 40.83N–.02 31.02E–.02 11–7 60 0-2
ISK V 24 17 25 10.9 40.83N 31.01E 8 2.8 ¶16854894
ISCJB V 24 17 25 11.1–.54 40.85N–.03 31.03E–.04 7–4 2.8
CSEM V 24 17 25 11.5–.07 40.82N 31.02E 8 2.7
DDA V 24 17 25 11.0 40.81N 31.03E 12 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=27.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=2.0.
ISC V 24 17 29 52.0–.84 39.11N–.03 29.11E–.03 9 55 0-2
ISK V 24 17 29 50.6 39.09N 29.14E 5 3.0 ¶16854895
CSEM V 24 17 29 51.7–.22 39.11N 29.11E 0–2 3.0
DDA V 24 17 29 51.4 39.12N 29.09E 8 2.9
ISCJB V 24 17 29 52.1–.39 39.08N–.03 29.09E–.05 9 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 24 17 47 08.7–1.1 39.10N–.02 29.03E–.02 2–10 186 0-4
CSEM V 24 17 47 08.7–.06 39.10N 29.03E 2 3.8L ¶16854896
ISK V 24 17 47 08.2 39.11N 29.06E 4 3.3L
DDA V 24 17 47 08.2 39.13N 29.06E 19 3.8L
THE V 24 17 47 09.4 39.02N 28.94E 0–1 3.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=69.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=275.0.
ISC V 24 17 59 39.3–.90 39.10N–.02 29.02E–.02 12–8 56 0-2
ISK V 24 17 59 38.9 39.09N 29.05E 10 2.8 ¶16854897
DDA V 24 17 59 39.0 39.13N 29.02E 7 2.8
ISCJB V 24 17 59 39.1–.47 39.11N–.03 29.02E–.03 4–6 2.8
CSEM V 24 17 59 39.3–.10 39.10N 29.02E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=162.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=158.0.
ISC V 24 18 14 19.1–.91 39.06N–.03 29.03E–.02 9 34 0-2
ISCJB V 24 18 14 19.6–.47 39.08N–.03 29.01E–.04 9 ¶16854898
DDA V 24 18 14 19.5 39.09N 29.03E 7 2.6
CSEM V 24 18 14 19.6–.17 39.08N 29.02E 5 2.6
ISK V 24 18 14 19.1 39.09N 29.00E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=147.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.7km az=88.0.
ISC V 24 18 20 05.6–.98 39.11N–.03 29.05E–.02 8–9 50 0-2
DDA V 24 18 20 05.0 39.10N 29.05E 7 2.6 ¶16854899
ISCJB V 24 18 20 05.2–.55 39.10N–.04 29.05E–.03 2–7 2.6
ISK V 24 18 20 05.0 39.09N 29.09E 7 2.7
CSEM V 24 18 20 05.5–.08 39.10N 29.06E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.8km az=159.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=152.0.
ISC V 24 18 37 17.9–.92 39.09N–.02 29.04E–.02 11–8 46 0-2
ISCJB V 24 18 37 17.6–.61 39.10N–.04 29.04E–.03 1–9 ¶16854900
CSEM V 24 18 37 17.8–.07 39.10N 29.05E 5 2.6
ISK V 24 18 37 17.3 39.08N 29.05E 8 2.7
DDA V 24 18 37 17.6 39.10N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=176.9.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=132.0.
ISC V 24 19 17 10.2–.93 39.11N–.03 29.00E–.03 9 26 0-1
ISK V 24 19 17 09.6 39.10N 28.96E 6 2.6 ¶16854901
ISCJB V 24 19 17 10.0–.58 39.11N–.04 29.00E–.04 9 2.6
CSEM V 24 19 17 10.2–.10 39.12N 28.99E 8 2.1
DDA V 24 19 17 10.2 39.08N 29.03E 7 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=172.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=46.0.
ISC V 24 19 18 17.3–1.0 39.12N–.02 29.00E–.02 5–10 49 0-2
DDA V 24 19 18 16.8 39.10N 29.00E 9 2.7 ¶16854902
ISCJB V 24 19 18 17.2–.54 39.12N–.03 29.02E–.03 4–6 2.7
CSEM V 24 19 18 17.3–.12 39.12N 29.02E 5 2.7
ISK V 24 19 18 17.2 39.14N 29.03E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=179.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=35.0.
ISC V 24 19 47 36.2–.96 39.12N–.02 29.09E–.02 12–8 157 0-3
ISK V 24 19 47 35.4 39.08N 29.15E 5 3.1 ¶16854903
DDA V 24 19 47 35.7 39.14N 29.11E 2 3.5L
CSEM V 24 19 47 36.8–.12 39.10N 29.10E 2 3.5L
THE V 24 19 47 39.1 39.04N 28.83E 6–2 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=71.0.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=185.0.
ISC V 24 20 07 37.7–.90 39.12N–.02 28.99E–.02 16–7 50 0-2
ISK V 24 20 07 37.6 39.15N 28.97E 5 2.7 ¶16854905
DDA V 24 20 07 37.6 39.11N 29.00E 11 2.7
CSEM V 24 20 07 38.0–.10 39.14N 28.98E 5 2.7
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=13.0.
ISC V 24 20 13 17.1–1.1 39.11N–.02 29.03E–.02 2–10 64 0-2
ISK V 24 20 13 16.4 39.11N 29.05E 5 2.8 ¶16854906
DDA V 24 20 13 16.6 39.08N 29.03E 7 2.6
CSEM V 24 20 13 17.0–.10 39.10N 29.03E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=173.0.
ISC V 24 20 57 16.0–1.0 39.12N–.02 29.03E–.02 9–9 135 0-3
ISK V 24 20 57 14.8 39.11N 29.03E 5 3.2L ¶16854908
DDA V 24 20 57 15.6 39.11N 29.04E 7 3.6L
CSEM V 24 20 57 16.1–.07 39.10N 29.03E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=65.0.
ISC V 24 21 02 03.1–.93 39.12N–.03 29.02E–.02 9 34 0-1
ISCJB V 24 21 02 02.9–.47 39.12N–.04 29.03E–.04 9 ¶16854909
ISK V 24 21 02 02.5 39.13N 29.05E 8 2.7
CSEM V 24 21 02 03.0–.11 39.12N 29.03E 8 2.6
DDA V 24 21 02 03.0 39.10N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=160.9.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=154.0.
ISC V 24 21 17 58.2–.95 39.12N–.03 29.04E–.02 9–10 46 0-2
ISCJB V 24 21 17 58.1–.52 39.12N–.03 29.05E–.03 6–5 ¶16854910
CSEM V 24 21 17 58.2–.13 39.12N 29.05E 5 2.4
DDA V 24 21 17 58.0 39.08N 29.05E 7 2.4
ISK V 24 21 17 59.1 39.23N 29.01E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=166.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=168.0.
DDA V 24 21 21 12.9 39.09N 29.09E 7 2.3
CSEM V 24 21 21 12.9 39.09N 29.09E 7 2.3 ¶601585461
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 24 21 31 02.3–1.1 39.12N–.04 29.09E–.03 9 24 0-2
ISK V 24 21 31 01.4 39.14N 29.08E 5 2.6 ¶16854911
ISCJB V 24 21 31 02.0–.62 39.13N–.04 29.09E–.04 9 2.6
CSEM V 24 21 31 02.0–.14 39.11N 29.09E 8 2.4
DDA V 24 21 31 02.0 39.11N 29.10E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=170.9.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=149.0.
ISC V 24 21 39 19.4–1.0 39.13N–.02 29.12E–.02 6–11 87 0-3
ISCJB V 24 21 39 18.8–.48 39.13N–.03 29.12E–.03 3–5 ¶16854912
ISK V 24 21 39 18.5 39.12N 29.12E 5 3.2
DDA V 24 21 39 18.8 39.14N 29.12E 10 2.8
CSEM V 24 21 39 19.0–.10 39.13N 29.13E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=157.6.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=118.0.
ISC V 24 21 59 14.0–.91 39.08N–.06 29.11E–.04 9 32 0-2
DDA V 24 21 59 13.7 38.93N 29.07E 7 2.3 ¶602862102
ISCJB V 24 21 59 14.4–.56 39.12N–.05 29.06E–.04 9 2.3
ISK V 24 21 59 14.0 39.12N 29.10E 7 2.7
CSEM V 24 21 59 14.5–.09 39.12N 29.07E 7–1 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.1km az=157.9.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.7km az=158.0.
ISC V 24 22 17 04.9–.96 39.07N–.03 29.06E–.03 13–9 38 0-2
ISK V 24 22 17 04.3 38.99N 29.21E 15 2.7 ¶16854914
ISCJB V 24 22 17 05.5–.52 39.09N–.04 29.03E–.04 6–7 2.7
DDA V 24 22 17 05.2 39.10N 29.03E 7 2.4
CSEM V 24 22 17 05.6–.23 39.09N 29.05E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=176.5.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=5.1km az=95.0.
ISC V 24 23 08 15.8–1.0 39.11N–.02 29.04E–.02 6–8 202 0-7
ISK V 24 23 08 14.7 39.11N 29.03E 3 3.3L ¶16854916
ISCJB V 24 23 08 15.4–.39 39.10N–.01 29.02E–.02 5–3 3.3L
DDA V 24 23 08 15.3 39.11N 29.05E 7 3.6L
CSEM V 24 23 08 15.5–.08 39.09N 29.02E 2 3.6L
THE V 24 23 08 17.0 39.05N 28.90E 1–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=169.8.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=68.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=77.0.
ISC V 24 23 39 56.3–.86 39.06N–.03 29.12E–.03 9 38 0-6
ISK V 24 23 39 55.4 39.07N 29.17E 4 2.8 ¶16854920
ISCJB V 24 23 39 56.3–.48 39.09N–.03 29.11E–.05 9 2.8
DDA V 24 23 39 56.4 39.11N 29.13E 7 2.7
CSEM V 24 23 39 56.4–.21 39.09N 29.13E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=154.5.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=72.0.
ISC V 25 00 12 59.2–1.1 39.16N–.02 29.12E–.02 8–10 79 0-3
ISCJB V 25 00 12 58.6–.44 39.15N–.03 29.12E–.03 4–5 ¶16854926
DDA V 25 00 12 58.6 39.13N 29.11E 7 3.2L
ISK V 25 00 12 58.5 39.15N 29.12E 6 3.0
CSEM V 25 00 12 59.0–.09 39.15N 29.13E 5 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=159.4.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=126.0.
ISC V 25 00 25 35.6–1.0 39.11N–.03 29.02E–.02 6–10 42 0-2
ISCJB V 25 00 25 35.2–.50 39.10N–.03 29.03E–.03 2–8 ¶16854927
CSEM V 25 00 25 35.4–.10 39.10N 29.03E 5 2.6
ISK V 25 00 25 35.0 39.11N 29.05E 5 2.7
DDA V 25 00 25 35.2 39.13N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=9.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=37.0.
ISC V 25 00 32 44.4–.92 39.11N–.02 29.02E–.03 12–10 42 0-2
ISK V 25 00 32 43.8 39.10N 29.09E 9 2.7 ¶16854928
ISCJB V 25 00 32 44.1–.49 39.11N–.03 29.03E–.04 6–6 2.7
DDA V 25 00 32 44.2 39.10N 29.02E 7 2.4
CSEM V 25 00 32 44.4–.08 39.12N 29.04E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.8km az=29.8.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=60.0.
ISC V 25 00 34 44.4–1.1 39.12N–.03 29.04E–.03 9–12 32 0-1
ISK V 25 00 34 43.7 39.12N 29.09E 8 2.6 ¶16854929
ISCJB V 25 00 34 44.6–.52 39.14N–.03 29.08E–.04 8–6 2.6
CSEM V 25 00 34 44.7–.12 39.13N 29.09E 10 2.2
DDA V 25 00 34 45.1 39.12N 29.09E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.0km az=138.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=60.0.
ISC V 25 00 44 11.6–.90 39.18N–.05 29.04E–.03 9 30 0-2
ISCJB V 25 00 44 11.3–.56 39.17N–.05 29.04E–.04 9 ¶16854931
CSEM V 25 00 44 11.4–.23 39.19N 29.04E 5 2.5
ISK V 25 00 44 11.2 39.22N 29.03E 5 2.5
DDA V 25 00 44 11.3 39.11N 29.06E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.8km az=159.7.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.0km az=160.0.
ISC V 25 01 03 59.4–.96 39.13N–.03 29.14E–.03 10–10 34 0-2
ISK V 25 01 03 58.6 39.10N 29.20E 8 2.7 ¶16854936
ISCJB V 25 01 03 59.1–.54 39.12N–.04 29.14E–.04 5–8 2.7
DDA V 25 01 03 59.1 39.13N 29.13E 7 2.4
CSEM V 25 01 03 59.2–.08 39.13N 29.14E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.1km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=103.0.
ISC V 25 01 07 45.5–.99 39.08N–.03 29.05E–.02 9–9 41 0-2

ISK V 25 01 07 44.9 39.07N 29.08E 9 2.6 ¶16854937
ISCJB V 25 01 07 45.7–.56 39.11N–.05 29.02E–.04 4–7 2.6
CSEM V 25 01 07 45.7–.14 39.09N 29.02E 8 2.5
DDA V 25 01 07 45.8 39.12N 29.03E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.4km az=166.5.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=6.0.
ISC V 25 01 18 19.4–.90 39.11N–.02 29.15E–.02 13–8 52 0-2
ISK V 25 01 18 18.6 39.11N 29.15E 6 2.7 ¶16854938
ISCJB V 25 01 18 19.2–.51 39.12N–.03 29.13E–.03 3–6 2.7
DDA V 25 01 18 19.2 39.12N 29.13E 7 2.9
CSEM V 25 01 18 19.4–.11 39.12N 29.13E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=153.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=128.0.
ISC V 25 01 39 37.6–1.1 39.11N–.02 29.02E–.02 5–10 57 0-2
DDA V 25 01 39 37.4 39.08N 29.02E 8 2.7L ¶16854940
CSEM V 25 01 39 37.8–.09 39.11N 29.02E 5 2.7L
ISK V 25 01 39 37.5 39.13N 29.04E 6 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=27.0.
ISC V 25 01 43 53.3–1.0 39.09N–.03 29.11E–.02 8–9 62 0-2
ISCJB V 25 01 43 52.9–.57 39.10N–.03 29.10E–.03 1–7 ¶16854941
ISK V 25 01 43 52.6 39.09N 29.15E 5 2.9
CSEM V 25 01 43 53.3–.10 39.09N 29.10E 5 2.8L
DDA V 25 01 43 53.1 39.11N 29.10E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=177.8.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=7.0.
ISC V 25 01 45 22.2–.96 39.07N–.03 29.08E–.03 12–9 36 0-2
ISCJB V 25 01 45 22.8–.54 39.09N–.03 29.05E–.04 6–6 ¶16854942
DDA V 25 01 45 22.5 39.09N 29.02E 7 2.4L
ISK V 25 01 45 22.4 39.05N 29.18E 14 2.6
CSEM V 25 01 45 23.0–.25 39.08N 29.07E 10 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.1km az=135.4.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.5km az=80.0.
ISC V 25 01 46 06.9–.86 39.06N–.03 29.09E–.04 9 34 0-2
CSEM V 25 01 46 06.9–.11 39.08N 29.12E 2 2.8 ¶16854945
ISK V 25 01 46 06.4 39.05N 29.16E 6 2.8
DDA V 25 01 46 06.7 39.09N 29.11E 7 2.4L
ISCJB V 25 01 46 07.2–.46 39.06N–.03 29.12E–.05 9 2.4L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 25 01 48 30.2–.99 39.12N–.02 29.06E–.03 10–10 50 0-2
ISCJB V 25 01 48 29.7–.57 39.11N–.03 29.05E–.04 2–7 ¶16854946
ISK V 25 01 48 29.8 39.11N 29.10E 7 2.8
DDA V 25 01 48 29.8 39.11N 29.07E 7 2.7L
CSEM V 25 01 48 30.1–.10 39.12N 29.07E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=37.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=118.0.
ISC V 25 01 56 45.1–.91 39.09N–.03 29.02E–.03 12–9 32 0-2
ISCJB V 25 01 56 44.8–.57 39.09N–.03 29.03E–.04 7–6 ¶16854948
CSEM V 25 01 56 44.9–.12 39.10N 29.02E 7–1 2.0L
ISK V 25 01 56 44.6 39.09N 29.09E 10 2.7
DDA V 25 01 56 44.9 39.06N 29.02E 7 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.3km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=62.0.
ISC V 25 02 01 46.1–.98 39.12N–.03 29.12E–.03 9–10 35 0-2
ISCJB V 25 02 01 45.9–.60 39.12N–.04 29.12E–.04 8–5 ¶16854949
CSEM V 25 02 01 45.8–.09 39.11N 29.12E 8 2.2
ISK V 25 02 01 45.5 39.11N 29.17E 10 2.6
DDA V 25 02 01 45.7 39.12N 29.10E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.0km az=162.1.
CSEM Event type ke.
ISC V 25 02 02 16.5–.86 39.07N–.03 29.03E–.03 9 39 0-2
DDA V 25 02 02 16.0 39.07N 29.03E 7 2.5 ¶16854952
ISCJB V 25 02 02 16.4–.43 39.07N–.03 29.02E–.04 9 2.5
CSEM V 25 02 02 16.4–.10 39.08N 29.03E 5 2.8
ISK V 25 02 02 16.0 39.06N 29.02E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=9.5.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=99.0.
ISC V 25 02 08 39.5–.98 39.11N–.03 29.04E–.03 9 34 0-2
ISCJB V 25 02 08 39.9–.53 39.13N–.04 29.00E–.04 9 ¶16854953
DDA V 25 02 08 39.9 39.13N 29.00E 7 2.2
ISK V 25 02 08 39.2 39.12N 29.02E 5 2.7
CSEM V 25 02 08 39.9–.12 39.13N 29.00E 6–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.2km az=158.2.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=156.0.
ISC V 25 02 14 54.6–.90 39.08N–.05 29.06E–.04 9 17 0-1
ISCJB V 25 02 14 55.5–.66 39.12N–.04 29.11E–.05 9 ¶16854954
ISK V 25 02 14 55.8 39.18N 29.08E 8 2.2
CSEM V 25 02 14 55.7–.12 39.11N 29.11E 10 2.5
DDA V 25 02 14 56.2 39.08N 29.06E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.4km az=21.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=78.0.
ISC V 25 02 34 31.4–.93 39.10N–.03 29.03E–.02 12–8 42 0-2
ISK V 25 02 34 30.9 39.11N 29.06E 5 2.7 ¶16854956
CSEM V 25 02 34 31.5–.11 39.11N 29.04E 2 2.8L
DDA V 25 02 34 31.4 39.08N 29.03E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=32.0.
ISC V 25 04 52 02.4–1.1 39.10N–.02 29.02E–.02 5–12 78 0-2
ISCJB V 25 04 52 01.8–.48 39.10N–.03 29.03E–.03 0–5 ¶16854960
ISK V 25 04 52 01.8 39.09N 29.02E 5 2.9
DDA V 25 04 52 01.9 39.07N 29.00E 5 3.0L
CSEM V 25 04 52 02.1–.06 39.09N 29.03E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=170.8.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=168.0.
ISC V 25 05 12 43.8–.89 39.12N–.02 29.03E–.02 14–8 66 0-3
ISK V 25 05 12 42.8 39.11N 29.05E 9 2.9 ¶16854963
ISCJB V 25 05 12 43.3–.44 39.12N–.03 29.02E–.03 6–5 2.9
CSEM V 25 05 12 43.6–.09 39.11N 29.04E 9–1 2.7
DDA V 25 05 12 43.5 39.14N 29.03E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=141.3.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=159.0.
ISC V 25 06 15 17.3–1.0 39.11N–.02 29.04E–.03 9–9 38 0-2
ISCJB V 25 06 15 17.0–.54 39.10N–.03 29.04E–.05 4–7 ¶16854965
ISK V 25 06 15 16.5 39.11N 29.03E 6 2.7
CSEM V 25 06 15 17.2–.11 39.10N 29.04E 8 2.9L
DDA V 25 06 15 17.1 39.12N 29.04E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.7km az=26.2.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=106.0.
ISC V 25 06 49 33.8–.84 39.46N–.01 26.30E–.02 13–6 115 0-4
DDA V 25 06 49 33.4 39.49N 26.34E 12 3.1 ¶16882472
ATH V 25 06 49 33.3 39.46N 26.29E 23–1 2.9L
ISCJB V 25 06 49 33.7–.44 39.46N–.02 26.30E–.03 7–3 2.9L
CSEM V 25 06 49 33.7–.10 39.45N 26.30E 10 2.9L
THE V 25 06 49 33.8 39.46N 26.31E 3–1 3.1L
SOF V 25 06 49 40.3 39.67N 25.42E 3 2.7
ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.1km az=250.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=167.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=69.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=266.0.
DDA V 25 08 32 00.6 40.65N 35.21E 7 2.9L
CSEM V 25 08 32 00.6 40.65N 35.21E 7 2.9L ¶601585536
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 09 07 39.5–.98 37.17N–.05 28.64E–.04 14 19 0-1
ISK V 25 09 07 38.8 37.07N 28.59E 16 2.6 ¶16854973
CSEM V 25 09 07 39.6–.28 37.06N 28.60E 10 2.2L
ISCJB V 25 09 07 41.7–.74 37.17N–.05 28.53E–.07 14 2.2L
DDA V 25 09 07 41.9 37.08N 28.35E 7 2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.8km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.5km az=145.9.
ISC V 25 09 23 49.8–.93 39.10N–.02 29.06E–.02 10–8 63 0-2
ISK V 25 09 23 48.8 39.07N 29.10E 5 2.7 ¶16854974
ISCJB V 25 09 23 49.5–.47 39.09N–.02 29.05E–.03 2–5 2.7
CSEM V 25 09 23 49.9–.10 39.08N 29.05E 8 2.8L
DDA V 25 09 23 49.4 39.10N 29.06E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=162.4.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=158.0.
DDA V 25 09 25 56.8 40.98N 40.32E 6 2.6L
CSEM V 25 09 25 57.2–.23 40.93N 40.32E 5 2.6L ¶602862138
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=3.3km az=165.0.
ISC V 25 09 30 23.9–.98 39.11N–.03 29.04E–.02 14–8 58 0-2
ISK V 25 09 30 23.8 39.14N 29.02E 13 2.7 ¶16854975
ISCJB V 25 09 30 24.2–.45 39.15N–.03 29.02E–.03 7–4 2.7
CSEM V 25 09 30 24.3–.07 39.15N 29.02E 10 2.8L
DDA V 25 09 30 24.5 39.13N 29.02E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=147.7.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=78.0.
ISC V 25 10 08 02.8–1.0 39.09N–.03 29.10E–.03 14–9 53 0-2
ISK V 25 10 08 02.7 39.09N 29.05E 11 2.8 ¶16854977
ISCJB V 25 10 08 03.0–.50 39.10N–.03 29.06E–.04 7–5 2.8
CSEM V 25 10 08 03.3–.10 39.10N 29.06E 10 2.8L
DDA V 25 10 08 03.6 39.08N 29.05E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=41.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=132.0.
ISC V 25 10 11 27.2–1.0 39.09N–.02 29.02E–.02 4–11 35 0-7
ISK V 25 10 11 26.1 39.02N 29.19E 7 2.4 ¶16854978
DDA V 25 10 11 26.6 39.10N 29.00E 7 2.5
CSEM V 25 10 11 27.2–.18 39.12N 29.01E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.8km az=110.0.
ISC V 25 10 48 31.9–.94 39.14N–.02 29.00E–.02 8–8 136 0-5
ISCJB V 25 10 48 31.4–.42 39.14N–.02 28.98E–.02 2–4 ¶16854979
DDA V 25 10 48 31.4 39.14N 29.00E 6 3.6L
ISK V 25 10 48 31.2 39.14N 29.00E 6 3.6L
CSEM V 25 10 48 31.9–.08 39.14N 28.99E 5 3.6L
THE V 25 10 48 33.9 39.07N 28.86E 4–5 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=152.0.
THE Event type ke. Error ellipse: s-maj=5.9km s-min=1.3km az=128.0.
ISC V 25 10 56 48.5–.83 39.10N–.02 29.08E–.02 9 63 0-2
ISK V 25 10 56 47.8 39.09N 29.10E 5 2.8 ¶16854980
ISCJB V 25 10 56 48.5–.37 39.10N–.03 29.08E–.04 9 2.8
DDA V 25 10 56 48.8 39.12N 29.06E 7 2.8L
CSEM V 25 10 56 48.4–.11 39.11N 29.08E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=28.6.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=112.0.
ISC V 25 11 20 47.2–1.1 39.14N–.02 29.13E–.02 3–12 62 0-2
CSEM V 25 11 20 46.8–.12 39.14N 29.13E 2 2.9 ¶16854981
ISK V 25 11 20 46.2 39.11N 29.12E 5 2.6
DDA V 25 11 20 46.3 39.13N 29.14E 8 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=140.0.
ISC V 25 11 25 11.4–.98 39.15N–.02 29.15E–.02 8–11 74 0-2
DDA V 25 11 25 11.1 39.15N 29.14E 6 2.8 ¶16854982
ISK V 25 11 25 11.4 39.13N 29.18E 5 2.8
CSEM V 25 11 25 11.5–.10 39.14N 29.15E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=141.0.
ISC V 25 11 28 07.6–.93 39.13N–.03 29.14E–.02 13–10 42 0-2
ISK V 25 11 28 06.8 39.11N 29.18E 8 2.7 ¶16854983
ISCJB V 25 11 28 07.2–.45 39.12N–.03 29.14E–.04 6–6 2.7
CSEM V 25 11 28 07.5–.11 39.12N 29.15E 8 2.6
DDA V 25 11 28 07.1 39.12N 29.13E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=36.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=102.0.
ISC V 25 11 42 59.0–.88 39.11N–.03 29.02E–.02 15–8 39 0-2
ISK V 25 11 42 58.5 39.11N 28.98E 8 2.5 ¶16854985
DDA V 25 11 42 59.1 39.09N 29.04E 7 3.0L
CSEM V 25 11 42 59.2–.08 39.12N 29.02E 5 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=136.0.
ISC V 25 12 15 40.4–1.1 39.12N–.02 29.09E–.02 3–10 169 0-8
ISCJB V 25 12 15 40.1–.46 39.13N–.02 29.07E–.03 3–4 ¶16854986
DDA V 25 12 15 40.1 39.13N 29.11E 7 3.8L
ISK V 25 12 15 40.0 39.14N 29.09E 3 3.6L
CSEM V 25 12 15 40.4–.10 39.13N 29.08E 2 3.8L
THE V 25 12 15 42.4 39.03N 28.99E 0–1 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=14.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=90.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=77.0.
ISC V 25 13 58 55.7–.92 39.10N–.02 29.11E–.02 11–8 72 0-2
ISK V 25 13 58 54.9 39.09N 29.14E 6 2.8 ¶16854987
ISCJB V 25 13 58 55.3–.44 39.10N–.02 29.11E–.03 3–5 2.8
CSEM V 25 13 58 55.6–.09 39.11N 29.12E 5 2.7L
DDA V 25 13 58 55.3 39.10N 29.08E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=158.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=110.0.
DDA V 25 14 05 00.7 36.97N 34.58E 7 2.7
CSEM V 25 14 05 00.7 36.97N 34.58E 7 2.7 ¶601585574
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 14 30 59.4–.88 39.11N–.02 29.01E–.02 13–8 69 0-2
ISCJB V 25 14 30 59.3–.45 39.10N–.03 29.02E–.03 2–6 ¶16854989
DDA V 25 14 30 59.3 39.08N 29.02E 7 3.2L
ISK V 25 14 30 59.1 39.10N 29.04E 7 2.7L
CSEM V 25 14 30 59.5–.07 39.11N 29.03E 2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=141.2.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=107.0.
ISC V 25 15 04 18.6–.90 39.12N–.02 28.98E–.02 13–8 53 0-2
ISK V 25 15 04 17.6 39.12N 28.98E 5 2.7 ¶16854992
ISCJB V 25 15 04 18.3–.45 39.13N–.03 29.01E–.03 3–5 2.7
CSEM V 25 15 04 18.7–.14 39.12N 29.01E 8 2.7
DDA V 25 15 04 18.9 39.09N 29.02E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=168.4.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=87.0.
ISC V 25 17 55 26.0–.95 39.14N–.02 29.00E–.02 8–9 137 0-3
ISCJB V 25 17 55 25.4–.40 39.13N–.02 28.99E–.02 4–4 ¶16854995

CSEM V 25 17 55 25.9–.06 39.13N 28.99E 8 3.5L
ISK V 25 17 55 25.0 39.13N 29.00E 9 3.0L
DDA V 25 17 55 25.7 39.14N 29.00E 3 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=32.8.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=96.0.
ISC V 25 18 38 26.1–.99 39.13N–.02 29.02E–.02 7–10 61 0-2
ISCJB V 25 18 38 25.8–.48 39.13N–.03 29.01E–.03 1–7 ¶16854998
ISK V 25 18 38 25.3 39.09N 29.07E 6 2.7
DDA V 25 18 38 25.9 39.14N 29.01E 7 2.5
CSEM V 25 18 38 26.0–.09 39.14N 29.02E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=164.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=131.0.
ISC V 25 19 18 57.0–.98 39.11N–.02 29.03E–.02 7–9 90 0-2
DDA V 25 19 18 56.8 39.09N 29.02E 9 3.1L ¶16855000
ISK V 25 19 18 57.0 39.09N 29.08E 5 2.8
CSEM V 25 19 18 57.3–.10 39.09N 29.05E 2 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=114.0.
ISC V 25 20 41 15.1–.96 39.12N–.02 29.01E–.02 8–9 50 0-2
DDA V 25 20 41 14.4 39.13N 29.01E 7 2.8 ¶16855004
ISK V 25 20 41 14.4 39.11N 29.03E 5 2.5
CSEM V 25 20 41 15.0–.09 39.12N 29.01E 5 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=118.0.
ISC V 25 21 06 27.9–.90 39.12N–.02 28.99E–.02 11–8 39 0-2
ISCJB V 25 21 06 27.7–.50 39.12N–.03 28.99E–.04 9–5 ¶16855007
ISK V 25 21 06 27.4 39.11N 29.02E 10 2.3
CSEM V 25 21 06 27.8–.07 39.12N 28.99E 8 2.9
DDA V 25 21 06 27.5 39.12N 28.98E 12 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.6km az=135.3.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=103.0.
DDA Event type ke.
ISC V 25 22 54 26.1–.91 39.08N–.02 29.07E–.02 12–9 52 0-2
ISCJB V 25 22 54 25.7–.46 39.08N–.03 29.06E–.03 4–7 ¶16855014
CSEM V 25 22 54 25.9–.07 39.07N 29.07E 8 2.6
ISK V 25 22 54 25.2 39.06N 29.10E 9 2.7
DDA V 25 22 54 26.1 39.07N 29.07E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=118.0.
ISC V 25 22 55 15.2–.97 39.12N–.02 29.05E–.02 8–9 78 0-2
ISK V 25 22 55 14.9 39.12N 29.08E 4 2.9 ¶16855017
DDA V 25 22 55 14.7 39.11N 29.05E 7 2.8
ISCJB V 25 22 55 15.0–.44 39.11N–.02 29.06E–.03 2–5 2.8
CSEM V 25 22 55 15.3–.10 39.11N 29.06E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=146.6.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=114.0.
CSEM V 25 23 28 41.4 39.14N 29.04E 6 3.1L
ISK V 25 23 28 41.4 39.14N 29.04E 6 3.1L ¶16855022
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 23 34 23.1–1.1 39.13N–.02 29.01E–.02 4–13 55 0-2
ISCJB V 25 23 34 22.8–.45 39.11N–.03 29.03E–.04 4–6 ¶16545202
DDA V 25 23 34 22.8 39.09N 29.01E 7 2.4
ISK V 25 23 34 22.9 39.12N 29.09E 8 2.9
CSEM V 25 23 34 23.2–.12 39.10N 29.04E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=141.6.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=93.0.
ISC V 25 23 42 38.8–.83 39.47N–.01 26.33E–.02 14–6 116 0-3
ISK V 25 23 42 37.6 39.48N 26.31E 5 3.2 ¶16855025
ATH V 25 23 42 37.9 39.44N 26.36E 24–1 2.2L
CSEM V 25 23 42 38.7–.11 39.44N 26.27E 8 2.2L
ISCJB V 25 23 42 38.7–.42 39.46N–.02 26.30E–.03 6–3 2.2L
DDA V 25 23 42 38.3 39.48N 26.34E 2 2.8L
THE V 25 23 42 39.0 39.47N 26.32E 8–1 2.3L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=0.9km az=254.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=164.9.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=261.0.
ISC V 26 00 08 37.5–.92 39.09N–.02 29.07E–.03 11–9 42 0-1
ISK V 26 00 08 36.5 39.05N 29.16E 8 2.7 ¶16855034
ISCJB V 26 00 08 37.3–.48 39.09N–.03 29.07E–.04 6–6 2.7
CSEM V 26 00 08 37.4–.08 39.09N 29.07E 5 2.7
DDA V 26 00 08 37.1 39.13N 29.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=138.6.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=115.0.
ISC V 26 00 26 48.4–.00 39.10N–.03 29.05E–.02 9–10 38 0-1
ISK V 26 00 26 47.8 39.08N 29.09E 5 2.4 ¶16855035
DDA V 26 00 26 47.7 39.10N 29.03E 7 2.6
ISCJB V 26 00 26 48.2–.55 39.10N–.03 29.05E–.03 2–8 2.6
CSEM V 26 00 26 48.4–.07 39.09N 29.04E 4–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=4.9.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=9.0.
ISC V 26 00 44 58.8–1.0 39.12N–.03 29.06E–.03 7–10 42 0-2
ISK V 26 00 44 57.8 39.06N 29.15E 5 2.6 ¶16855037
ISCJB V 26 00 44 58.4–.69 39.13N–.04 29.05E–.04 0–8 2.6
DDA V 26 00 44 58.3 39.13N 29.05E 7 2.5
CSEM V 26 00 44 58.7–.15 39.11N 29.05E 4–1 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.2km az=153.8.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.4km az=145.0.
ISC V 26 01 37 08.1–1.1 39.10N–.04 29.02E–.03 9 19 0-1
ISCJB V 26 01 37 07.7–.72 39.10N–.05 29.02E–.05 9 ¶601585655
CSEM V 26 01 37 07.7–.13 39.11N 29.00E 8 2.6L
DDA V 26 01 37 07.8 39.06N 29.03E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=155.9.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=137.0.
ISC V 26 01 38 23.3–1.1 39.13N–.02 29.11E–.02 4–12 64 0-2
ISCJB V 26 01 38 23.0–.48 39.12N–.03 29.12E–.03 2–6 ¶16855041
DDA V 26 01 38 22.6 39.11N 29.11E 13 2.8L
ISK V 26 01 38 22.9 39.14N 29.11E 4 2.9
CSEM V 26 01 38 23.2–.12 39.12N 29.12E 2 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=12.7.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=87.0.
ISC V 26 01 47 20.8–1.0 39.12N–.02 29.10E–.02 5–13 48 0-2
ISK V 26 01 47 19.9 39.08N 29.16E 5 2.5 ¶16855042
ISCJB V 26 01 47 20.3–.52 39.11N–.03 29.09E–.03 2–7 2.5
CSEM V 26 01 47 20.5–.07 39.11N 29.10E 2 2.7L
DDA V 26 01 47 20.0 39.11N 29.09E 9 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=167.5.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=121.0.
ISC V 26 01 53 48.6–.91 39.12N–.03 29.02E–.03 9 31 0-2
ISCJB V 26 01 53 48.6–.51 39.11N–.04 29.02E–.04 9 ¶16855043
CSEM V 26 01 53 48.6–.11 39.12N 29.01E 5 2.6L
ISK V 26 01 53 48.0 39.11N 29.04E 5 2.5
DDA V 26 01 53 48.1 39.09N 29.02E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=145.5.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=105.0.
ISC V 26 02 03 38.5–.98 39.12N–.02 29.02E–.02 8–9 62 0-2
ISK V 26 02 03 37.7 39.10N 29.03E 5 2.8 ¶16855045
DDA V 26 02 03 38.4 39.13N 29.03E 7 2.7
CSEM V 26 02 03 38.4–.09 39.12N 29.02E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=142.0.
ISC V 26 02 07 11.9–1.1 39.13N–.04 29.03E–.04 9 22 0-1
ISCJB V 26 02 07 11.9–.78 39.13N–.07 29.04E–.09 9 ¶16855046
CSEM V 26 02 07 11.8–.20 39.16N 29.01E 3–2 2.5
ISK V 26 02 07 11.6 39.14N 29.05E 7 2.5
DDA V 26 02 07 15.6 38.96N 28.71E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=4.8km az=137.9.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=3.7km az=128.0.
DDA V 26 02 13 46.8 37.92N 29.46E 7 2.4
¶602862175
ISC V 26 02 19 29.3–.85 39.47N–.02 26.36E–.03 10 45 0-2
ATH V 26 02 19 28.9 39.47N 26.36E 14–3 1.7L ¶16855048
ISK V 26 02 19 28.3 39.50N 26.37E 5 2.7
ISCJB V 26 02 19 29.3–.43 39.48N–.03 26.37E–.05 10 2.7
CSEM V 26 02 19 29.2–.14 39.48N 26.36E 5 1.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.0km az=248.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=174.6.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.7km az=79.0.
ISC V 26 02 21 39.5–.93 39.12N–.02 29.05E–.02 11–9 56 0-2
ISCJB V 26 02 21 39.4–.52 39.13N–.03 29.05E–.03 3–7 ¶16855049
CSEM V 26 02 21 39.5–.10 39.13N 29.05E 2 2.5
ISK V 26 02 21 39.4 39.13N 29.07E 6 2.8
DDA V 26 02 21 39.2 39.14N 29.06E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=162.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=127.0.
ISC V 26 02 50 34.2–1.1 39.11N–.02 29.02E–.02 4–10 73 0-2
ISCJB V 26 02 50 33.6–.48 39.11N–.03 29.02E–.03 1–6 ¶16855054
CSEM V 26 02 50 33.8–.08 39.10N 29.03E 2 2.7
ISK V 26 02 50 33.3 39.09N 29.04E 5 2.9
DDA V 26 02 50 33.7 39.12N 29.03E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=164.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=147.0.
ISC V 26 03 11 14.7–.98 39.08N–.03 29.06E–.04 13–11 26 0-1
ISK V 26 03 11 13.6 39.03N 29.15E 16 2.3 ¶16855057
ISCJB V 26 03 11 14.5–.69 39.09N–.04 29.04E–.06 7–10 2.3
CSEM V 26 03 11 14.8–.20 39.09N 29.06E 10 2.5
DDA V 26 03 11 15.2 39.07N 29.07E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.5km az=30.2.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=86.0.
ISC V 26 03 19 42.1–1.1 39.10N–.02 29.05E–.02 4–12 60 0-2
CSEM V 26 03 19 41.9–.07 39.10N 29.06E 2 2.9 ¶16855058
ISK V 26 03 19 41.4 39.08N 29.08E 6 2.7
DDA V 26 03 19 41.6 39.11N 29.03E 10 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=129.0.
ISC V 26 03 27 54.4–.98 39.05N–.04 29.09E–.03 15–9 23 0-1
ISK V 26 03 27 53.7 39.07N 29.05E 6 2.3 ¶16855061
DDA V 26 03 27 54.8 39.06N 29.08E 7 2.5
CSEM V 26 03 27 54.6–.17 39.11N 29.02E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=117.0.
DDA V 26 03 28 36.9 39.13N 29.00E 7 2.5
¶602862180
ISC V 26 04 14 08.8–.97 39.06N–.02 29.07E–.02 10–9 60 0-2
DDA V 26 04 14 09.0 39.14N 29.02E 7 2.3L ¶16855065
ISK V 26 04 14 08.5 39.05N 29.12E 8 2.8
ISCJB V 26 04 14 09.2–.49 39.11N–.03 29.02E–.03 2–6 2.8
CSEM V 26 04 14 09.6–.10 39.11N 29.02E 5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=156.5.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=153.0.
ISC V 26 04 19 53.4–.88 39.08N–.02 29.04E–.02 14–8 48 0-2
CSEM V 26 04 19 53.6–.10 39.10N 29.04E 2 2.5L ¶16855066
ISK V 26 04 19 53.1 39.07N 29.08E 6 2.6
DDA V 26 04 19 53.2 39.10N 29.05E 7 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=108.0.
ISC V 26 04 37 27.4–.90 39.11N–.03 28.99E–.03 12–7 36 0-1
ISK V 26 04 37 26.7 39.08N 29.05E 19 2.6 ¶16855068
ISCJB V 26 04 37 27.4–.52 39.12N–.03 28.99E–.04 8–5 2.6
DDA V 26 04 37 27.7 39.09N 29.03E 7 2.2L
CSEM V 26 04 37 27.3–.23 39.12N 28.97E 10 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=141.2.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=104.0.
ISC V 26 05 10 45.4–.95 39.07N–.03 29.15E–.03 15–9 36 0-2
ISK V 26 05 10 44.9 39.09N 29.16E 10 2.5 ¶16855077
ISCJB V 26 05 10 45.9–.51 39.10N–.03 29.11E–.04 8–5 2.5
CSEM V 26 05 10 45.8–.11 39.10N 29.13E 10 2.3L
DDA V 26 05 10 45.9 39.09N 29.12E 7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=139.9.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=115.0.
ISC V 26 05 16 14.0–1.0 39.13N–.02 29.01E–.02 5–10 74 0-2
CSEM V 26 05 16 13.9–.10 39.12N 29.01E 2 3.0L ¶16855078
ISK V 26 05 16 13.5 39.11N 29.01E 5 2.8
DDA V 26 05 16 13.5 39.13N 29.03E 7 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=161.0.
ISC V 26 05 19 12.0–1.1 39.10N–.02 29.05E–.02 5–11 68 0-2
ISCJB V 26 05 19 11.4–.47 39.10N–.03 29.05E–.03 0–6 ¶16855079
CSEM V 26 05 19 11.7–.09 39.10N 29.05E 2 3.0L
ISK V 26 05 19 11.1 39.09N 29.07E 6 2.9
DDA V 26 05 19 11.3 39.10N 29.05E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=169.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=149.0.
ISC V 26 05 45 02.6–.93 39.04N–.02 29.06E–.02 13–8 52 0-2
ISCJB V 26 05 45 03.0–.52 39.09N–.03 29.02E–.04 2–7 ¶16855082
ISK V 26 05 45 02.6 39.03N 29.10E 7 2.4L
DDA V 26 05 45 02.9 39.10N 29.02E 7 2.7L
CSEM V 26 05 45 03.2–.16 39.07N 29.03E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=8.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.4km az=113.0.
ISC V 26 05 49 36.0–1.1 39.14N–.03 29.05E–.03 10–12 40 0-2
ISK V 26 05 49 35.0 39.19N 28.93E 6 2.1 ¶16855084
ISCJB V 26 05 49 36.3–.50 39.14N–.03 29.08E–.04 13–5 2.1
DDA V 26 05 49 36.9 39.15N 29.14E 7 2.5L
CSEM V 26 05 49 36.3–.22 39.14N 29.07E 15 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.2km az=149.8.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.9km az=95.0.
ISC V 26 06 09 49.8–.94 39.10N–.03 29.00E–.03 9 28 0-1
ISK V 26 06 09 48.8 39.01N 29.14E 15 2.1 ¶16855087
ISCJB V 26 06 09 49.5–.53 39.07N–.04 29.00E–.04 9 2.1
CSEM V 26 06 09 49.6–.22 39.09N 29.00E 5 2.5
DDA V 26 06 09 49.3 39.11N 28.99E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=139.4.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=94.0.
ISC V 26 06 39 35.3–.96 39.13N–.03 29.05E–.03 14–10 30 0-1

ISK V 26 06 39 33.8 38.97N 29.31E 23 1.8L ¶16855088
ISCJB V 26 06 39 36.0–.55 39.11N–.03 29.04E–.04 9–5 1.8L
CSEM V 26 06 39 35.9–.24 39.11N 29.06E 12 2.6
DDA V 26 06 39 36.6 39.10N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.7km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=114.0.
ISC V 26 07 03 22.4–1.3 39.17N–.03 28.99E–.03 21–2 33 0-2
ISK V 26 07 03 19.8 39.18N 28.92E 3 2.3 ¶16855090
CSEM V 26 07 03 21.7–.28 39.20N 28.94E 10 2.5
ISCJB V 26 07 03 22.1–.55 39.16N–.03 28.99E–.04 11–5 2.5
DDA V 26 07 03 23.4 39.07N 29.02E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.9km az=110.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.3km az=36.4.
ISC V 26 07 46 20.9–.92 39.08N–.02 29.07E–.03 13–8 52 0-2
ISK V 26 07 46 20.2 39.06N 29.15E 13 2.0L ¶16855091
ISCJB V 26 07 46 21.1–.47 39.10N–.03 29.04E–.04 6–6 2.0L
DDA V 26 07 46 21.2 39.11N 29.00E 7 2.7
CSEM V 26 07 46 21.1–.21 39.10N 29.06E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=139.9.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=107.0.
ISC V 26 08 07 06.6–1.1 39.14N–.03 29.04E–.03 19–3 35 0-1
ISK V 26 08 07 05.0 39.22N 28.80E 9 2.5 ¶16855092
ISCJB V 26 08 07 06.5–.52 39.14N–.05 29.03E–.05 20–9 2.5
CSEM V 26 08 07 06.2–.33 39.12N 29.04E 20 2.6
DDA V 26 08 07 07.2 39.07N 29.06E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.2km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=6.6km az=116.0.
ISC V 26 08 31 04.2–.00 39.09N–.03 29.06E–.03 8–10 32 0-1
ISK V 26 08 31 03.4 39.05N 29.19E 5 2.5 ¶16855095
DDA V 26 08 31 04.2 39.07N 29.04E 7 2.4
CSEM V 26 08 31 04.2–.11 39.10N 29.04E 2 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=124.0.
ISC V 26 08 36 21.3–1.2 39.12N–.03 29.06E–.04 16–12 28 0-1
ISCJB V 26 08 36 21.5–.55 39.13N–.04 29.04E–.05 14–5 ¶16855096
DDA V 26 08 36 22.0 39.09N 29.05E 7 2.4
ISK V 26 08 36 21.0 39.15N 29.00E 13 2.5
CSEM V 26 08 36 21.5–.06 39.13N 29.03E 14–1 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.4km az=139.8.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=137.0.
ISC V 26 08 54 22.0–.96 39.13N–.02 29.02E–.02 9–9 50 0-2
ISCJB V 26 08 54 21.6–.51 39.13N–.03 29.02E–.03 2–7 ¶16855098
CSEM V 26 08 54 21.7–.08 39.13N 29.03E 2 2.6
ISK V 26 08 54 21.2 39.11N 29.06E 5 2.6
DDA V 26 08 54 21.4 39.13N 29.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=158.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=173.0.
ISC V 26 09 01 13.4–1.6 38.57N–.05 39.6E–.10 9 18 0-1
ISK V 26 09 01 12.8 38.56N 39.65E 20 2.3 ¶16855099
CSEM V 26 09 01 14.3–1.1 38.51N 39.50E 30 2.3
ISCJB V 26 09 01 16.0–1.5 38.56N–.05 39.5E–.10 9 2.3
DDA V 26 09 01 17.4 38.71N 39.14E 28 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=32.9km s-min=12.5km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=4.9km az=24.3.
ISC V 26 09 10 55.0–.85 39.11N–.03 29.07E–.02 9 40 0-2
ISK V 26 09 10 54.8 39.12N 29.06E 8 2.4L ¶16855101
ISCJB V 26 09 10 55.3–.44 39.12N–.03 29.08E–.04 9 2.4L
CSEM V 26 09 10 55.4–.10 39.12N 29.08E 8–1 2.4
DDA V 26 09 10 55.8 39.10N 29.10E 6 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=31.5.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=125.0.
ISC V 26 09 17 53.5–1.2 39.01N–.03 29.02E–.03 1–12 28 0-2
DDA V 26 09 17 52.4 39.18N 29.01E 7 2.2 ¶16855105
ISK V 26 09 17 54.1 39.06N 28.79E 7 2.7
CSEM V 26 09 17 55.0–.24 39.05N 28.79E 10 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=4.8km az=88.0.
ISC V 26 09 19 10.4–1.1 39.18N–.04 28.95E–.04 9 16 0-1
ISCJB V 26 09 19 08.7–1.1 39.21N–.05 28.81E–.08 9 ¶16855106
ISK V 26 09 19 08.0 39.19N 28.84E 5 1.9
CSEM V 26 09 19 09.0–.38 39.21N 28.80E 10 2.0
DDA V 26 09 19 13.0 39.10N 29.02E 7 2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.6km az=35.1.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.9km az=113.0.
ISC V 26 09 33 30.3–.92 39.13N–.03 29.02E–.02 13–9 34 0-1
ISK V 26 09 33 29.6 39.16N 28.98E 8 2.4 ¶16855107
ISCJB V 26 09 33 30.3–.54 39.13N–.03 29.01E–.04 10–5 2.4
DDA V 26 09 33 30.1 39.11N 29.02E 8 2.6
CSEM V 26 09 33 30.2–.10 39.13N 29.01E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.8km az=2.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=85.0.
ISC V 26 09 35 19.1–.93 39.12N–.03 29.02E–.03 16–9 30 0-2
DDA V 26 09 35 18.9 39.12N 29.02E 8 2.5 ¶16855108
ISK V 26 09 35 18.4 38.94N 29.24E 2 2.4
ISCJB V 26 09 35 19.2–.54 39.10N–.04 29.02E–.04 4–9 2.4
CSEM V 26 09 35 19.4–.30 39.10N 29.02E 2 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.1km az=21.9.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=6.3km az=121.0.
ISC V 26 09 36 27.5–.89 39.10N–.03 29.00E–.03 17–7 36 0-1
ISK V 26 09 36 23.6 39.10N 28.74E 5 2.5 ¶16855109
ISCJB V 26 09 36 27.9–.59 39.14N–.03 29.02E–.04 7–6 2.5
DDA V 26 09 36 27.6 39.15N 29.04E 8 2.8
CSEM V 26 09 36 27.7–.28 39.14N 29.00E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.9km az=39.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.3km az=50.0.
ISC V 26 09 42 18.1–.00 39.14N–.02 29.09E–.02 6–9 167 0-7
ISK V 26 09 42 16.7 39.11N 29.11E 9 3.4L ¶601585683
ISCJB V 26 09 42 17.0–.43 39.11N–.02 29.09E–.02 4–4 3.4L
CSEM V 26 09 42 17.3–.08 39.10N 29.11E 5 3.7
DDA V 26 09 42 17.0 39.12N 29.10E 4 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=167.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=67.0.
DDA Event type ke.
ISC V 26 10 02 06.8–.91 39.12N–.03 29.09E–.02 13–8 48 0-2
DDA V 26 10 02 06.3 39.11N 29.09E 7 2.8 ¶601585687
ISK V 26 10 02 06.4 39.16N 29.08E 5 2.5L
CSEM V 26 10 02 07.0–.14 39.14N 29.08E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=62.0.
DDA V 26 10 10 17.4 39.11N 29.09E 7 2.9
CSEM V 26 10 10 17.4 39.11N 29.09E 7 2.9 ¶602386062
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 26 10 10 39.5–1.1 39.15N–.02 29.12E–.02 2–9 3.4b 143 0-39
CSEM V 26 10 10 38.9 39.11N 29.11E 7 3.6 ¶601585689
DDA V 26 10 10 38.9 39.11N 29.11E 7 3.6
IDC V 26 10 10 38.8–1.2 39.06N 29.03E 0 3.6,3.5
ISCJB V 26 10 10 39.4–.47 39.17N–.02 29.10E–.02 3–4 3.4b,3.5
ISK V 26 10 10 39.1 39.18N 29.09E 2 3.7L,3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA Event type ke.
IDC Error ellipse: s-maj=20.3km s-min=14.9km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=174.7.
ISC V 26 10 15 14.1–.81 39.13N–.02 29.10E–.02 9 81 0-3
ISK V 26 10 15 12.8 39.12N 29.11E 3 3.0L ¶16855112
ISCJB V 26 10 15 14.0–.33 39.11N–.03 29.11E–.03 9 3.0L
CSEM V 26 10 15 13.6–.12 39.13N 29.10E 2 3.5L
DDA V 26 10 15 13.6 39.11N 29.10E 8 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=43.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=147.0.
ISC V 26 10 25 50.2–.90 39.12N–.02 28.96E–.03 9 43 0-2
ISK V 26 10 25 49.6 39.12N 28.95E 6 2.6L ¶16855113
ISCJB V 26 10 25 50.4–.42 39.12N–.03 28.96E–.04 9 2.6L
CSEM V 26 10 25 50.4–.17 39.13N 28.96E 5 2.9L
DDA V 26 10 25 50.9 39.12N 29.00E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=37.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=124.0.
ISC V 26 10 28 54.3–.92 39.12N–.03 29.01E–.03 9 60 0-2
ISK V 26 10 28 53.8 39.12N 29.02E 5 2.7 ¶16855114
ISCJB V 26 10 28 54.2–.39 39.11N–.03 29.01E–.04 9 2.7
CSEM V 26 10 28 54.2–.07 39.12N 29.01E 5 3.1L
DDA V 26 10 28 54.2 39.13N 29.02E 7 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.1km az=8.7.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.5km az=139.0.
ISC V 26 10 33 58.0–.94 39.11N–.02 29.11E–.03 14–8 35 0-2
ISCJB V 26 10 33 57.9–.51 39.10N–.03 29.10E–.04 7–6 ¶16855115
ISK V 26 10 33 57.5 39.10N 29.13E 6 2.5
DDA V 26 10 33 57.6 39.12N 29.09E 7 2.6
CSEM V 26 10 33 58.0–.10 39.10N 29.10E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=159.5.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=86.0.
ISC V 26 10 36 16.8–1.0 39.09N–.04 29.06E–.04 9 17 0-1
DDA V 26 10 36 15.2 39.13N 29.06E 7 2.5 ¶16855116
CSEM V 26 10 36 16.2–.39 39.01N 29.05E 2 2.3
ISCJB V 26 10 36 17.3–.78 39.17N–.05 28.96E–.07 9 2.3
ISK V 26 10 36 17.9 39.16N 29.00E 6 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=8.7km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.5km az=42.2.
ISC V 26 10 37 11.3–.97 39.06N–.04 29.07E–.03 12–9 30 0-2
ISK V 26 10 37 10.8 39.04N 29.12E 5 2.4 ¶16855119
ISCJB V 26 10 37 11.7–.54 39.09N–.04 29.02E–.04 5–9 2.4
DDA V 26 10 37 11.8 39.06N 29.02E 7 2.6
CSEM V 26 10 37 11.9–.16 39.10N 29.01E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=146.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.3km az=108.0.
ISC V 26 10 47 28.6–.88 39.11N–.02 29.06E–.02 9 65 0-2
ISK V 26 10 47 27.7 39.09N 29.08E 5 2.7 ¶16855121
ISCJB V 26 10 47 28.5–.36 39.10N–.03 29.06E–.03 9 2.7
CSEM V 26 10 47 28.5–.10 39.11N 29.06E 5 3.0L
DDA V 26 10 47 28.3 39.12N 29.05E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=123.0.
ISC V 26 10 53 55.1–1.1 39.10N–.03 29.13E–.05 7–11 25 0-2
DDA V 26 10 53 54.7 39.11N 29.11E 7 2.5 ¶16855122
ISK V 26 10 53 54.3 39.07N 29.16E 5 2.3
ISCJB V 26 10 53 55.0–.66 39.10N–.04 29.11E–.05 3–10 2.3
CSEM V 26 10 53 55.1–.18 39.12N 29.11E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.5km az=44.9.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=119.0.
ISC V 26 11 10 57.8–.98 39.08N–.04 29.07E–.03 9 22 0-1
ISCJB V 26 11 10 58.0–.59 39.10N–.04 29.03E–.05 9 ¶16855123
ISK V 26 11 10 57.2 39.06N 29.10E 7 2.6
DDA V 26 11 10 58.2 39.09N 29.03E 7 2.6
CSEM V 26 11 10 58.0–.13 39.09N 29.02E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.1km az=143.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=129.0.
ISC V 26 11 17 25.8–.90 39.03N–.03 29.08E–.03 9 26 0-2
ISK V 26 11 17 26.1 39.00N 29.40E 18 2.5 ¶16855124
ISCJB V 26 11 17 27.1–.67 39.08N–.05 29.05E–.05 9 2.5
DDA V 26 11 17 27.4 39.11N 29.01E 7 2.1
CSEM V 26 11 17 27.5–.33 39.15N 29.04E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=158.6.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=7.2km az=141.0.
ISC V 26 11 29 27.8–.96 39.09N–.03 29.02E–.03 16–9 37 0-2
ISK V 26 11 29 26.9 39.12N 28.99E 4 2.5L ¶16855125
ISCJB V 26 11 29 28.0–.48 39.11N–.04 29.02E–.04 10–6 2.5L
DDA V 26 11 29 28.9 39.14N 29.04E 7 2.5
CSEM V 26 11 29 28.0–.22 39.11N 28.99E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.7km az=150.5.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=126.0.
ISC V 26 11 40 17.6–.91 39.11N–.03 29.08E–.03 9 39 0-2
ISK V 26 11 40 16.8 39.12N 29.00E 5 2.4L ¶16855126
ISCJB V 26 11 40 17.5–.45 39.11N–.03 29.08E–.05 9 2.4L
CSEM V 26 11 40 17.7–.14 39.12N 29.07E 8 2.9L
DDA V 26 11 40 17.7 39.12N 29.08E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=29.6.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=106.0.
ISC V 26 11 47 27.4–1.0 39.10N–.02 29.13E–.03 8–9 34 0-1
ISCJB V 26 11 47 27.5–.58 39.11N–.04 29.10E–.04 3–9 ¶16855127
DDA V 26 11 47 27.6 39.09N 29.09E 7 2.3
CSEM V 26 11 47 27.6–.22 39.13N 29.11E 2 2.3
ISK V 26 11 47 27.2 39.09N 29.22E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=147.6.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=111.0.
ISC V 26 11 56 50.6–.87 39.09N–.02 29.14E–.02 17–7 48 0-2
ISK V 26 11 56 49.5 39.13N 29.15E 5 2.7 ¶16855128
ISCJB V 26 11 56 50.7–.47 39.11N–.03 29.10E–.04 6–5 2.7
CSEM V 26 11 56 50.8–.12 39.11N 29.12E 8 2.5
DDA V 26 11 56 50.9 39.10N 29.08E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=27.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=97.0.
ISC V 26 12 20 09.1–.95 39.10N–.02 29.03E–.03 10–9 43 0-2
ISK V 26 12 20 08.6 39.02N 29.22E 14 2.5L ¶16855129
ISCJB V 26 12 20 09.2–.49 39.09N–.03 29.01E–.03 7–5 2.5L
CSEM V 26 12 20 09.1–.16 39.11N 29.00E 5 2.6
DDA V 26 12 20 09.2 39.09N 28.98E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.0km az=141.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=130.0.
DDA Event type ke.

ISC	**V**	**26 12 36 05.4–.96**	**39.07N–.02**	**28.97E–.03**	**16–9**		**53**	**0-2**
ISCJB	V	26 12 36 05.4–.43	39.08N–.02	28.96E–.03	10–4			¶16855132
ISK	V	26 12 36 05.0	39.08N	28.93E	10	2.5		
CSEM	V	26 12 36 05.6–.09	39.08N	28.96E	10	2.7		
DDA	V	26 12 36 05.3	39.07N	28.99E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=4.1km az=150.6.							
CSEM	Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=79.0.							
DDA	Event type ke.							
DDA	**V**	**26 12 36 20.4**	**39.09N**	**29.02E**	**7**	**2.6**		
CSEM	V	26 12 36 20.4	39.09N	29.02E	7	2.6		¶601585717
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**26 12 40 17.3–.86**	**39.11N–.02**	**28.99E–.02**	**16–6**		**64**	**0-2**
DDA	V	26 12 40 17.3	39.11N	28.99E	7	2.8		¶16855133
CSEM	V	26 12 40 17.8–.07	39.11N	28.98E	2	2.8		
ISK	V	26 12 40 17.4	39.10N	28.95E	5	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=85.0.							
ISC	**V**	**26 12 43 43.6–.88**	**39.09N–.02**	**29.06E–.02**	**15–7**		**55**	**0-2**
ISCJB	V	26 12 43 43.5–.40	39.09N–.02	29.05E–.03	5–6			¶16855134
DDA	V	26 12 43 43.4	39.11N	29.06E	7	2.7		
CSEM	V	26 12 43 43.8–.07	39.09N	29.05E	5	2.7		
ISK	V	26 12 43 43.1	39.09N	29.07E	6	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=14.2.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=100.0.							
ISC	**V**	**26 13 39 55.6–.98**	**39.06N–.03**	**29.09E–.03**	**11–9**		**30**	**0-2**
ISK	V	26 13 39 54.6	38.98N	29.27E	6	2.3		¶16855136
ISCJB	V	26 13 39 56.3–.54	39.09N–.03	29.05E–.04	5–11	2.3		
CSEM	V	26 13 39 56.4–.28	39.10N	29.05E	5	2.6		
DDA	V	26 13 39 56.2	39.07N	29.05E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.4km s-min=4.8km az=162.5.							
CSEM	Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=96.0.							
DDA	Event type ke.							
ISC	**V**	**26 13 46 09.8–.90**	**39.10N–.02**	**29.12E–.02**	**13–7**		**52**	**0-2**
ISCJB	V	26 13 46 09.6–.45	39.11N–.03	29.11E–.03	4–6			¶16855137
DDA	V	26 13 46 09.4	39.09N	29.11E	7	2.9		
CSEM	V	26 13 46 09.9–.10	39.10N	29.12E	5	2.9		
ISK	V	26 13 46 09.4	39.10N	29.16E	6	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=26.5.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=107.0.							
ISC	**V**	**26 14 15 46.2–.94**	**39.11N–.02**	**29.02E–.02**	**9–10**		**50**	**0-2**
ISCJB	V	26 14 15 45.9–.46	39.11N–.03	29.02E–.03	1–7			¶16855139
DDA	V	26 14 15 45.6	39.11N	29.02E	16	2.7L		
ISK	V	26 14 15 45.6	39.09N	29.07E	5	2.3		
CSEM	V	26 14 15 46.1–.08	39.11N	29.04E	2	2.7L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.7km s-min=4.0km az=167.9.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=116.0.							
ISC	**V**	**26 15 01 49.3–.94**	**36.83N–.03**	**35.45E–.02**	**29–7**		**58**	**0-3**
DDA	V	26 15 01 48.0	36.85N	35.48E	19	3.5L		¶16855142
ISCJB	V	26 15 01 49.6–.37	36.88N–.03	35.47E–.03	18–6	3.5L		
ISK	V	26 15 01 49.1	36.91N	35.44E	16	3.2		
CSEM	V	26 15 01 49.7–.20	36.86N	35.46E	20	3.5L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=3.4km az=9.7.							
CSEM	Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=22.0.							
ISK	**V**	**26 15 03 19.2**	**40.14N**	**29.42E**	**5**	**2.4**		
CSEM	V	26 15 03 19.2	40.14N	29.42E	5	2.4		¶16855143
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**26 15 06 18.5–.98**	**37.73N–.03**	**29.34E–.04**	**14–8**		**37**	**0-1**
ISCJB	V	26 15 06 18.6–.54	37.72N–.03	29.34E–.04	6–6			¶16855144
CSEM	V	26 15 06 18.4–.16	37.72N	29.33E	12	2.9L		
ISK	V	26 15 06 18.1	37.73N	29.32E	18	2.8		
DDA	V	26 15 06 18.0	37.70N	29.34E	5	2.9L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=152.2.							
CSEM	Event type ke. Error ellipse: s-maj=4.6km s-min=3.1km az=71.0.							
ISC	**V**	**26 15 08 41.4–.94**	**39.15N–.02**	**29.08E–.02**	**18–6**		**63**	**0-2**
ISK	V	26 15 08 40.8	39.15N	29.05E	2	2.9		¶16855146
CSEM	V	26 15 08 41.9–.09	39.13N	29.08E	5	3.3L		
DDA	V	26 15 08 41.8	39.15N	29.09E	7	3.3L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=43.0.							
ISC	**V**	**26 15 58 14.3–.88**	**39.11N–.02**	**29.03E–.02**	**15–7**		**55**	**0-2**
ISCJB	V	26 15 58 14.4–.47	39.10N–.02	29.03E–.03	7–5			¶16855152
DDA	V	26 15 58 14.1	39.10N	29.04E	7	2.8L		
ISK	V	26 15 58 14.3	39.09N	29.00E	11	2.8		
CSEM	V	26 15 58 14.7–.08	39.10N	29.03E	8	2.8L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=4.1km az=15.1.							
CSEM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=90.0.							
ISC	**V**	**26 16 01 22.8–1.1**	**39.06N–.03**	**29.04E–.02**	**2–14**		**38**	**0-2**
DDA	V	26 16 01 22.2	39.10N	29.02E	7	2.6		¶16855153
ISK	V	26 16 01 22.4	39.03N	29.22E	7	2.6		
CSEM	V	26 16 01 22.8–.22	39.08N	29.05E	2	2.6		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=93.0.							
ISC	**V**	**26 16 03 50.3–1.1**	**39.05N–.04**	**29.03E–.03**	**15–11**		**34**	**0-2**
ISCJB	V	26 16 03 51.0–.51	39.10N–.03	29.02E–.04	7–6			¶16855154
ISK	V	26 16 03 50.0	39.07N	29.03E	8	2.7		
CSEM	V	26 16 03 51.1–.19	39.11N	29.00E	8	2.9		
DDA	V	26 16 03 51.5	39.06N	29.05E	7	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=147.1.							
CSEM	Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=124.0.							
ISC	**V**	**26 16 16 33.3–.94**	**39.11N–.02**	**29.03E–.02**	**9–9**		**60**	**0-2**
ISCJB	V	26 16 16 32.9–.44	39.11N–.03	29.02E–.03	2–6			¶16855155
ISK	V	26 16 16 32.9	39.11N	29.06E	7	2.8		
DDA	V	26 16 16 32.8	39.11N	29.02E	7	3.0L		
CSEM	V	26 16 16 33.3–.06	39.11N	29.03E	5	3.0L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=3.5.							
CSEM	Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=108.0.							
ISC	**V**	**26 16 28 54.0–.92**	**37.86N–.05**	**27.16E–.05**	**13–8**		**26**	**0-2**
DDA	V	26 16 28 53.9	37.83N	27.11E	7	2.9		¶16855157
ISCJB	V	26 16 28 54.1–.48	37.86N–.04	27.14E–.05	11–6	2.9		
CSEM	V	26 16 28 54.5–.19	37.87N	27.15E	10	2.9		
ISK	V	26 16 28 54.1	37.90N	27.16E	15	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.3km s-min=3.7km az=40.9.							
CSEM	Event type ke. Error ellipse: s-maj=6.2km s-min=3.6km az=39.0.							
ISC	**V**	**26 17 34 08.7–.88**	**39.10N–.02**	**29.06E–.02**	**13–7**		**100**	**0-2**
ISK	V	26 17 34 08.4	39.10N	29.07E	2	2.9		¶16855160
DDA	V	26 17 34 08.4	39.11N	29.07E	11	3.5L		
CSEM	V	26 17 34 09.0–.08	39.10N	29.08E	2	3.5L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=117.0.							
ISC	**V**	**26 17 39 46.9–1.1**	**39.10N–.03**	**29.05E–.02**	**4–14**		**42**	**0-2**
ISCJB	V	26 17 39 46.7–.47	39.08N–.03	29.05E–.04	6–7			¶16855161
CSEM	V	26 17 39 46.9–.14	39.10N	29.06E	2	2.8		
ISK	V	26 17 39 46.6	39.12N	29.08E	5	2.7		
DDA	V	26 17 39 46.6	39.06N	29.06E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=149.9.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=126.0.							
ISC	**V**	**26 17 57 14.1–1.0**	**38.36N–.02**	**28.07E–.02**	**5–9**		**136**	**0-4**
ISK	V	26 17 57 13.8	38.34N	28.10E	3	3.3		¶16855162
DDA	V	26 17 57 13.6	38.39N	28.09E	7	3.3		
CSEM	V	26 17 57 14.1–.13	38.35N	28.09E	2	3.3		
THE	V	26 17 57 14.2	38.37N	28.12E	3–4	2.9L		
ATH	V	26 17 57 15.9	38.46N	27.84E	14–4	2.6L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=130.0.							
THE	Event type ke. Error ellipse: s-maj=4.3km s-min=1.0km az=112.0.							
ATH	Event type ke. Error ellipse: s-maj=7.0km s-min=2.1km az=260.0.							
ISC	**V**	**26 18 13 00.5–.94**	**39.13N–.03**	**29.03E–.02**	**11–9**		**38**	**0-2**
ISCJB	V	26 18 13 00.4–.51	39.13N–.03	29.03E–.04	8–5			¶16855163
CSEM	V	26 18 13 00.5–.10	39.13N	29.03E	8	2.5		
ISK	V	26 18 13 00.1	39.10N	29.13E	12	2.7		
DDA	V	26 18 13 00.1	39.12N	29.01E	7	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.2km s-min=4.6km az=145.2.							
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=106.0.							
ISC	**V**	**26 18 49 50.3–.89**	**39.12N–.02**	**28.98E–.03**	**15–8**		**34**	**0-1**
ISCJB	V	26 18 49 50.4–.51	39.12N–.03	28.99E–.04	10–5			¶16855166
DDA	V	26 18 49 50.5	39.10N	28.98E	7	2.8		
ISK	V	26 18 49 50.0	39.15N	28.97E	6	2.8		
CSEM	V	26 18 49 50.3–.10	39.13N	28.98E	10	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=39.2.							
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=85.0.							
ISC	**V**	**26 19 22 25.0–1.1**	**37.68N–.03**	**29.37E–.03**	**10–9**		**37**	**0-1**
ISCJB	V	26 19 22 24.8–.50	37.67N–.03	29.39E–.04	1–9			¶16855169
CSEM	V	26 19 22 24.9–.14	37.66N	29.36E	8	2.8		
ISK	V	26 19 22 24.7	37.65N	29.35E	6	2.8		
DDA	V	26 19 22 24.6	37.69N	29.36E	5	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=140.6.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=51.0.							
ISC	**V**	**26 19 28 00.7–.99**	**39.07N–.02**	**29.08E–.02**	**9–9**		**40**	**0-2**
ISCJB	V	26 19 28 00.8–.53	39.07N–.03	29.06E–.04	3–7			¶16855171
DDA	V	26 19 28 00.5	39.08N	29.08E	7	2.5		
ISK	V	26 19 28 00.5	39.07N	29.08E	4	2.6		
CSEM	V	26 19 28 00.9–.14	39.08N	29.06E	2	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=2.1.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=3.0km az=100.0.							
ISC	**V**	**26 19 29 06.7–.98**	**39.07N–.02**	**29.10E–.02**	**10–11**		**52**	**0-2**
DDA	V	26 19 29 06.9	39.09N	29.04E	7	2.7		¶16855172
ISK	V	26 19 29 06.8	39.07N	29.14E	6	2.8		
ISCJB	V	26 19 29 07.0–.48	39.09N–.03	29.06E–.03	2–6	2.8		
CSEM	V	26 19 29 07.3–.11	39.09N	29.08E	2	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=149.8.							
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=123.0.							
ISC	**V**	**26 19 31 20.2–1.1**	**39.89N–.03**	**41.77E–.03**	**14–9**		**33**	**0-1**
CSEM	V	26 19 31 20.1–.20	39.86N	41.73E	15	2.9		¶601585735
DDA	V	26 19 31 20.4	39.91N	41.77E	7	2.9		
ISCJB	V	26 19 31 21.0–.51	39.88N–.03	41.76E–.04	10–5	2.9		
ISC	Event type ke.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**26 19 32 32.1–.94**	**39.10N–.02**	**29.05E–.02**	**12–10**		**33**	**0-1**
ISCJB	V	26 19 32 31.9–.49	39.10N–.03	29.05E–.04	4–9			¶16855173
DDA	V	26 19 32 31.8	39.09N	29.04E	7	2.6		
ISK	V	26 19 32 31.6	39.09N	29.11E	6	2.6		
CSEM	V	26 19 32 32.1–.10	39.10N	29.04E	5	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=156.1.							
CSEM	Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=87.0.							
ISC	**V**	**26 19 48 03.7–.95**	**39.13N–.04**	**28.99E–.03**	**13–9**		**28**	**0-2**
ISK	V	26 19 48 02.9	39.15N	28.99E	10	2.5		¶16855174
ISCJB	V	26 19 48 03.4–.55	39.12N–.04	29.00E–.05	12–5	2.5		
CSEM	V	26 19 48 03.5–.13	39.12N	29.00E	12	2.7		
DDA	V	26 19 48 03.8	39.07N	29.00E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.5km s-min=4.9km az=144.1.							
CSEM	Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=128.0.							
ISC	**V**	**26 19 54 06.0–1.1**	**37.49N–.04**	**27.29E–.05**	**19–2**		**25**	**0-1**
ISCJB	V	26 19 54 07.3–.73	37.52N–.04	27.24E–.06	26–8			¶16855175
CSEM	V	26 19 54 07.9–.50	37.52N	27.27E	5	2.6		
ISK	V	26 19 54 07.8	37.45N	27.43E	5	2.3		
DDA	V	26 19 54 07.7	37.55N	27.24E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=5.7km az=144.2.							
CSEM	Event type ke. Error ellipse: s-maj=10.9km s-min=6.8km az=104.0.							
ISC	**V**	**26 19 58 50.2–.97**	**39.12N–.02**	**29.08E–.02**	**9–9**		**43**	**0-2**
ISCJB	V	26 19 58 49.6–.46	39.10N–.03	29.07E–.03	5–6			¶16855177
CSEM	V	26 19 58 49.9–.05	39.11N	29.07E	5	2.7		
DDA	V	26 19 58 49.5	39.11N	29.07E	7	2.7		
ISK	V	26 19 58 49.6	39.10N	29.11E	6	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.8km s-min=4.3km az=148.4.							
CSEM	Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=108.0.							
ISC	**V**	**26 20 04 16.4–1.1**	**39.12N–.02**	**29.08E–.02**	**3–12**		**102**	**0-2**
ISK	V	26 20 04 15.7	39.12N	29.08E	3	3.3L		¶16855178
DDA	V	26 20 04 15.7	39.11N	29.08E	7	3.5L		
CSEM	V	26 20 04 16.4–.07	39.11N	29.07E	2	3.5L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=74.0.							
ISC	**V**	**26 20 07 06.2–.91**	**39.09N–.02**	**29.11E–.02**	**12–9**		**44**	**0-2**
ISCJB	V	26 20 07 06.0–.48	39.09N–.03	29.10E–.03	3–7			¶16855179
ISK	V	26 20 07 05.7	39.07N	29.18E	8	2.8		
DDA	V	26 20 07 06.1	39.07N	29.09E	7	2.6		
CSEM	V	26 20 07 06.1–.11	39.09N	29.11E	5	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=153.6.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=99.0.							
ISC	**V**	**26 20 14 04.0–1.1**	**39.11N–.02**	**29.13E–.02**	**5–10**		**69**	**0-2**
ISCJB	V	26 20 14 03.6–.43	39.09N–.03	29.14E–.03	6–5			¶16855180
DDA	V	26 20 14 03.4	39.11N	29.13E	7	2.7		
ISK	V	26 20 14 03.2	39.11N	29.14E	6	2.9		
CSEM	V	26 20 14 03.7–.07	39.11N	29.13E	5	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=168.9.							
CSEM	Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=122.0.							
ISC	**V**	**26 20 28 31.1–.94**	**39.11N–.03**	**29.16E–.02**	**15–9**		**49**	**0-2**
ISCJB	V	26 20 28 31.6–.47	39.10N–.03	29.14E–.03	7–5			¶16855181
CSEM	V	26 20 28 31.7–.09	39.12N	29.13E	5	2.8		
DDA	V	26 20 28 31.5	39.10N	29.13E	7	2.8		
ISK	V	26 20 28 31.2	39.13N	29.16E	6	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=161.4.							
CSEM	Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=117.0.							
ISC	**V**	**26 20 47 05.6–.92**	**39.30N–.02**	**27.70E–.02**	**17–8**		**56**	**0-2**
ISCJB	V	26 20 47 05.5–.51	39.30N–.02	27.71E–.03	6–5			¶16855182
DDA	V	26 20 47 05.3	39.30N	27.73E	7	2.8		
CSEM	V	26 20 47 05.7–.12	39.29N	27.70E	10	2.8		
ISK	V	26 20 47 05.1	39.30N	27.70E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=14.1.							
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=75.0.							
ISC	**V**	**26 21 03 53.2–.96**	**39.13N–.02**	**29.00E–.02**	**12–9**		**46**	**0-2**
ISCJB	V	26 21 03 53.0–.46	39.12N–.03	28.99E–.03	4–6			¶16855183
ISK	V	26 21 03 52.8	39.14N	29.01E	5	2.7		

DDA V 26 21 03 52.8 39.12N 28.99E 7 2.7
CSEM V 26 21 03 53.2–.05 39.13N 28.99E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=166.3.
CSEM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=132.0.
ISC V 26 21 05 29.5–1.1 37.84N–.02 29.19E–.03 6–11 40 0-2
ISCJB V 26 21 05 30.0–.49 37.82N–.03 29.17E–.05 8–6 ¶16855184
DDA V 26 21 05 29.5 37.81N 29.18E 7 2.7
CSEM V 26 21 05 30.0–.19 37.82N 29.18E 5 2.8
ISK V 26 21 05 30.0 37.81N 29.16E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=2.7.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=83.0.
ISC V 26 21 20 11.4–1.0 37.82N–.03 29.22E–.03 11–8 30 0-1
ISCJB V 26 21 20 11.9–.56 37.81N–.03 29.19E–.04 7–7 ¶16855185
CSEM V 26 21 20 11.7–.24 37.79N 29.22E 2 2.6
ISK V 26 21 20 11.6 37.86N 29.21E 13 2.7
DDA V 26 21 20 11.9 37.80N 29.16E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.2km az=29.7.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=5.0km az=134.0.
ISC V 26 21 51 19.7–.00 39.05N–.04 29.07E–.03 13–8 27 0-1
CSEM V 26 21 51 19.8–.17 39.06N 29.05E 12 2.7 ¶16855186
ISK V 26 21 51 19.0 39.05N 29.08E 5 2.2
ISCJB V 26 21 51 20.0–.57 39.04N–.03 29.06E–.04 12–7 2.2
DDA V 26 21 51 20.4 39.03N 29.05E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=139.8.
ISC V 26 22 03 27.0–.84 39.07N–.03 29.08E–.03 9 36 0-2
ISK V 26 22 03 26.4 39.07N 29.11E 6 2.5 ¶16855187
ISCJB V 26 22 03 27.4–.46 39.10N–.03 29.03E–.04 9 2.5
DDA V 26 22 03 27.4 39.07N 29.03E 7 2.1
CSEM V 26 22 03 27.4–.14 39.10N 29.02E 5 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=162.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=98.0.
ISC V 26 22 03 59.4–1.0 39.10N–.03 29.03E–.03 6–12 39 0-1
ISK V 26 22 03 58.8 39.09N 29.10E 9 2.7 ¶16855190
DDA V 26 22 03 59.0 39.08N 29.02E 7 2.6
ISCJB V 26 22 03 59.0–.48 39.09N–.03 29.03E–.04 5–8 2.6
CSEM V 26 22 03 59.2–.09 39.10N 29.02E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=145.8.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=97.0.
ISC V 26 22 09 13.0–.95 39.10N–.03 29.11E–.03 14–9 52 0-2
ISCJB V 26 22 09 13.5–.43 39.12N–.03 29.05E–.03 4–6 ¶16855191
CSEM V 26 22 09 13.7–.08 39.12N 29.06E 5 2.9
ISK V 26 22 09 13.1 39.12N 29.07E 5 2.8
DDA V 26 22 09 13.8 39.09N 29.04E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=158.3.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=113.0.
ISC V 26 22 29 18.7–.88 39.12N–.02 29.03E–.02 15–8 42 0-2
ISCJB V 26 22 29 18.4–.46 39.12N–.03 29.03E–.04 10–5 ¶16855192
CSEM V 26 22 29 18.5–.06 39.11N 29.03E 10 2.6
DDA V 26 22 29 18.5 39.10N 29.03E 7 2.6
ISK V 26 22 29 18.0 39.13N 29.04E 9 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.5km az=31.2.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=68.0.
ISC V 26 22 37 24.8–1.0 39.04N–.03 29.11E–.04 10–11 30 0-2
ISK V 26 22 37 24.9 39.06N 29.14E 5 2.6 ¶16855193
ISCJB V 26 22 37 25.5–.50 39.08N–.03 29.05E–.04 4–9 2.6
CSEM V 26 22 37 25.7–.11 39.08N 29.05E 5 2.7
DDA V 26 22 37 25.7 39.07N 29.04E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=158.2.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=94.0.
ISC V 26 22 38 23.1–.89 39.10N–.03 29.02E–.03 17–8 34 0-1
ISK V 26 22 38 22.8 39.11N 29.03E 5 2.5 ¶16855196
ISCJB V 26 22 38 23.3–.48 39.10N–.03 29.02E–.04 7–7 2.5
CSEM V 26 22 38 23.5–.10 39.10N 29.02E 8 2.7
DDA V 26 22 38 23.6 39.07N 29.01E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.7km az=138.8.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=87.0.
ISC V 26 23 38 13.2–.90 39.10N–.02 29.10E–.02 12–9 60 0-2
ISCJB V 26 23 38 12.8–.49 39.10N–.03 29.10E–.03 1–7 ¶16855199
DDA V 26 23 38 12.7 39.11N 29.09E 7 2.9
ISK V 26 23 38 12.7 39.09N 29.14E 6 2.9
CSEM V 26 23 38 13.2–.09 39.09N 29.11E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=146.3.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=111.0.
ISC V 26 23 51 35.2–.88 39.09N–.02 29.03E–.02 14–8 44 0-2
ISK V 26 23 51 34.9 39.13N 29.03E 10 2.6 ¶16855200
ISCJB V 26 23 51 35.1–.49 39.10N–.03 29.02E–.03 10–5 2.6
DDA V 26 23 51 35.4 39.07N 29.02E 7 2.4
CSEM V 26 23 51 35.2–.12 39.09N 29.01E 10 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=148.6.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=107.0.
ISC V 27 00 03 14.5–.88 39.10N–.02 29.05E–.03 15–8 36 0-2
ISCJB V 27 00 03 14.5–.51 39.11N–.03 29.05E–.04 11–5 ¶16855213
CSEM V 27 00 03 14.4–.10 39.10N 29.06E 14–1 2.6
ISK V 27 00 03 14.1 39.10N 29.09E 16 2.7
DDA V 27 00 03 14.8 39.06N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.8km az=40.5.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=104.0.
ISC V 27 00 27 27.0–.95 39.16N–.03 28.91E–.03 13–10 26 0-2
ISCJB V 27 00 27 26.9–.57 39.17N–.05 28.94E–.05 9–7 ¶16855214
CSEM V 27 00 27 26.9–.15 39.17N 28.91E 8 2.5
ISK V 27 00 27 26.4 39.15N 28.95E 10 2.7
DDA V 27 00 27 27.5 39.11N 28.98E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=5.3km az=152.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=124.0.
ISC V 27 01 50 24.6–.93 39.09N–.03 29.06E–.03 14–9 33 0-2
ISCJB V 27 01 50 24.8–.52 39.09N–.04 29.05E–.04 4–9 ¶16855217
CSEM V 27 01 50 24.9–.12 39.10N 29.05E 5 2.7
ISK V 27 01 50 24.2 39.04N 29.18E 10 2.7
DDA V 27 01 50 24.7 39.06N 29.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.4km az=154.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=117.0.
ISC V 27 01 53 54.8–.90 39.09N–.02 29.05E–.02 15–7 46 0-2
ISCJB V 27 01 53 54.8–.50 39.09N–.03 29.04E–.04 7–5 ¶16855218
ISK V 27 01 53 54.6 39.09N 29.02E 9 2.8
DDA V 27 01 53 54.7 39.09N 29.04E 7 2.8
CSEM V 27 01 53 55.0–.07 39.09N 29.04E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=42.9.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=65.0.
ISC V 27 01 56 18.0–.94 39.10N–.03 29.10E–.03 11–10 34 0-2
ISCJB V 27 01 56 17.8–.52 39.10N–.03 29.10E–.04 3–10 ¶16855219
CSEM V 27 01 56 17.9–.08 39.10N 29.10E 5 2.6
ISK V 27 01 56 17.5 39.10N 29.15E 6 2.8
DDA V 27 01 56 17.9 39.09N 29.09E 7 2.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=148.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=104.0.
ISC V 27 02 12 37.1–.93 39.09N–.03 29.04E–.03 15–9 32 0-2
ISK V 27 02 12 36.6 39.09N 29.04E 5 2.6 ¶16855221
ISCJB V 27 02 12 37.6–.52 39.11N–.03 29.02E–.04 6–6 2.6
CSEM V 27 02 12 37.7–.14 39.11N 29.01E 8 2.5
DDA V 27 02 12 37.8 39.10N 29.03E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=138.6.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=111.0.
ISC V 27 02 15 04.9–.97 39.11N–.03 29.02E–.03 9 28 0-2
ISCJB V 27 02 15 04.5–.53 39.09N–.04 29.03E–.04 9 ¶16855222
CSEM V 27 02 15 04.6–.09 39.12N 29.02E 2 2.4
ISK V 27 02 15 04.4 39.11N 29.08E 5 2.7
DDA V 27 02 15 04.2 39.09N 29.03E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.0km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=128.0.
ISC V 27 02 24 59.0–.93 39.12N–.03 29.09E–.03 13–10 34 0-2
ISK V 27 02 24 58.8 39.17N 29.05E 5 2.7 ¶16855223
ISCJB V 27 02 24 59.2–.52 39.12N–.03 29.07E–.04 11–5 2.7
CSEM V 27 02 24 59.3–.10 39.13N 29.06E 8 2.5
DDA V 27 02 24 59.0 39.14N 29.06E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.9km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=98.0.
ISC V 27 02 25 33.3–1.0 39.07N–.03 29.07E–.02 7–11 42 0-2
ISK V 27 02 25 32.8 39.08N 29.12E 6 2.8 ¶16855226
DDA V 27 02 25 32.8 39.09N 29.04E 7 2.7
ISCJB V 27 02 25 33.1–.47 39.08N–.03 29.06E–.03 3–8 2.7
CSEM V 27 02 25 33.4–.14 39.07N 29.08E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=164.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=98.0.
ISC V 27 02 53 02.3–.83 38.93N–.03 27.90E–.03 13–5 41 0-2
ISK V 27 02 53 01.8 38.95N 27.95E 6 2.6 ¶16855228
ISCJB V 27 02 53 02.3–.52 38.94N–.03 27.92E–.04 7–5 2.6
CSEM V 27 02 53 02.4–.14 38.94N 27.90E 8 2.4
DDA V 27 02 53 02.0 38.93N 27.90E 13 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=37.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=62.0.
ISC V 27 03 49 48.7–.92 37.21N–.04 36.90E–.02 12–7 33 0-2
DDA V 27 03 49 48.4 37.24N 36.90E 7 2.8 ¶16855231
ISCJB V 27 03 49 49.2–.62 37.21N–.05 36.91E–.03 4–7 2.8
ISK V 27 03 49 49.5 37.18N 36.92E 8 2.7
CSEM V 27 03 49 49.6–.14 37.21N 36.93E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=170.1.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.6km az=161.0.
ISC V 27 03 52 23.5–1.1 37.17N–.06 36.83E–.03 19–3 26 0-2
CSEM V 27 03 52 22.1 37.09N 36.80E 17 2.8 ¶602386123
ISK V 27 03 52 22.1 37.09N 36.80E 17 2.8
ISCJB V 27 03 52 24.1–.66 37.17N–.07 36.79E–.04 19–6 2.8
DDA V 27 03 52 25.1 37.25N 36.88E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.7km az=169.7.
ISC V 27 03 56 49.1–.93 39.09N–.02 29.13E–.02 14–9 38 0-2
ISCJB V 27 03 56 48.9–.52 39.09N–.03 29.12E–.04 9–5 ¶16855233
DDA V 27 03 56 48.9 39.08N 29.11E 7 2.3
ISK V 27 03 56 48.5 39.08N 29.19E 10 2.7
CSEM V 27 03 56 49.0–.09 39.09N 29.13E 8 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.8km az=42.1.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=105.0.
ISC V 27 04 02 17.9–1.1 39.12N–.04 29.12E–.03 11–10 34 0-2
ISK V 27 04 02 17.6 39.07N 29.24E 26 2.7 ¶16855234
ISCJB V 27 04 02 18.6–.55 39.11N–.04 29.12E–.05 20–7 2.7
CSEM V 27 04 02 18.2–.16 39.11N 29.12E 18–1 2.5
DDA V 27 04 02 18.7 39.12N 29.08E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.2km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=132.0.
ISC V 27 04 05 00.4–.95 39.10N–.02 29.03E–.02 9–9 60 0-2
ISCJB V 27 04 04 60.0–.43 39.10N–.03 29.03E–.03 3–6 ¶16855235
ISK V 27 04 04 59.8 39.09N 29.08E 8 2.8
DDA V 27 04 04 59.9 39.12N 29.02E 7 2.7
CSEM V 27 04 05 00.2–.09 39.11N 29.04E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=157.5.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=107.0.
ISC V 27 04 50 10.0–.88 39.08N–.02 29.07E–.02 14–7 72 0-2
DDA V 27 04 50 09.9 39.09N 29.06E 7 2.8L ¶16855236
ISK V 27 04 50 09.7 39.08N 29.04E 4 2.9
CSEM V 27 04 50 10.3–.07 39.08N 29.06E 2 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.4km az=141.0.
ISC V 27 05 01 44.3–.90 39.11N–.02 29.01E–.03 13–8 39 0-2
ISCJB V 27 05 01 44.5–.51 39.12N–.03 28.99E–.04 11–5 ¶16855238
CSEM V 27 05 01 44.5–.08 39.11N 28.99E 10 2.3
DDA V 27 05 01 44.5 39.10N 28.99E 7 2.3
ISK V 27 05 01 44.2 39.11N 29.05E 12 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=41.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=106.0.
ISC V 27 05 13 58.3–.91 39.09N–.02 29.05E–.02 9 36 0-2
ISK V 27 05 13 57.6 39.10N 29.05E 6 2.7 ¶16855239
ISCJB V 27 05 13 58.0–.45 39.09N–.03 29.05E–.04 9 2.7
DDA V 27 05 13 58.1 39.09N 29.05E 7 2.4
CSEM V 27 05 13 58.1–.09 39.08N 29.04E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=142.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=108.0.
ISK V 27 05 33 50.0 39.47N 28.59E 15 2.3
CSEM V 27 05 33 51.1–.18 39.49N 28.58E 20 2.3 ¶16855243
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.5km az=89.0.
ISC V 27 05 33 59.4–.86 38.91N–.02 28.97E–.03 9 39 0-2
DDA V 27 05 33 57.1 39.08N 29.00E 7 2.3 ¶16855240
ISK V 27 05 33 59.3 38.89N 29.00E 5 2.2
ISCJB V 27 05 34 00.8–.47 38.90N–.03 28.95E–.05 9 2.2
CSEM V 27 05 34 00.6–.19 38.90N 28.97E 2 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=10.2.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=111.0.
ISC V 27 06 08 02.6–1.0 39.03N–.02 28.99E–.02 7–9 49 0-2
ISCJB V 27 06 08 02.4–.62 39.08N–.04 29.01E–.03 0–8 ¶16855246
DDA V 27 06 08 02.2 39.09N 29.00E 7 2.6
ISK V 27 06 08 02.2 39.05N 29.08E 7 2.3
CSEM V 27 06 08 02.5–.11 39.08N 29.01E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=165.3.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=104.0.
ISC V 27 06 18 19.2–1.7 39.37N–.09 28.63E–.06 9 11 0-1
¶603797478
ISC Event type ke.
ISC V 27 06 19 36.6–.86 39.14N–.03 29.11E–.03 9 36 0-1
ISCJB V 27 06 19 36.8–.46 39.15N–.03 29.08E–.04 9 ¶16855251
CSEM V 27 06 19 36.8–.08 39.14N 29.10E 12 2.7L
ISK V 27 06 19 36.4 39.15N 29.11E 13 2.2
DDA V 27 06 19 37.3 39.14N 29.08E 7 2.7L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=144.6.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=115.0.
ISC V 27 06 38 18.9–.91 39.10N–.02 29.03E–.02 12–9 42 0-2
ISCJB V 27 06 38 18.6–.56 39.12N–.04 29.03E–.04 3–7 ¶16855253
DDA V 27 06 38 18.6 39.10N 29.02E 7 2.6
ISK V 27 06 38 18.1 39.04N 29.16E 12 2.4
CSEM V 27 06 38 18.7–.15 39.13N 29.03E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.8km az=159.7.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=114.0.
ISC V 27 07 43 38.0–.89 39.13N–.01 29.09E–.01 9–6 4.3b,3.7s 764 0-129
IDC V 27 07 43 36.4–.63 39.09N 29.07E 0 4.2,4.2 ¶602386117
MOS V 27 07 43 36.8–.97 39.17N 29.12E 11 4.5b,4.2
HLW V 27 07 43 37.1 39.21N 29.11E 33–20 3.9L,4.2
NEIC V 27 07 43 37.4 39.11N 29.10E 10 4.5L,4.5L
ISK V 27 07 43 37.7 39.12N 29.04E 9 4.5L,4.5L
DDA V 27 07 43 37.1 39.14N 29.12E 19 4.4L,4.5L
CSEM V 27 07 43 38.5–.07 39.11N 29.08E 10 4.4b,4.5L
ISCJB V 27 07 43 38.1–.32 39.14N–.01 29.06E–.01 14–2 4.3b,3.6s
THE V 27 07 43 39.1 39.12N 29.01E 7–2 4.5L,3.6s
SOF V 27 07 43 47.3 39.87N 28.57E 2 3.7,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=13.4km s-min=9.8km az=13.0.
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=87.1.
NEIC Event type se. After ISK.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=1.7km s-min=1.7km az=45.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=129.0.
ISC V 27 07 58 56.5–.97 39.09N–.02 29.12E–.02 8–10 68 0-2
ISK V 27 07 58 55.7 39.07N 29.14E 6 2.8 ¶16855256
DDA V 27 07 58 55.8 39.12N 29.11E 7 2.9
CSEM V 27 07 58 56.1–.08 39.09N 29.12E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=114.0.
ISC V 27 08 18 47.6–1.2 39.00N–.03 29.17E–.03 6–11 78 0-3
ISK V 27 08 18 47.6 39.05N 29.11E 4 3.0 ¶601585767
ISCJB V 27 08 18 48.6–.48 39.05N–.03 29.09E–.03 5–6 3.0
DDA V 27 08 18 48.1 39.10N 29.07E 7 3.0
CSEM V 27 08 18 48.7–.10 39.05N 29.09E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=163.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=103.0.
ISC V 27 09 04 19.6–.94 39.08N–.02 29.06E–.02 10–8 81 0-2
DDA V 27 09 04 18.7 39.11N 29.06E 19 3.0 ¶16855262
ISCJB V 27 09 04 19.3–.41 39.07N–.02 29.06E–.03 5–4 3.0
CSEM V 27 09 04 19.5–.09 39.07N 29.07E 5 3.0
ISK V 27 09 04 19.0 39.06N 29.11E 6 2.7L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=154.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=106.0.
ISC V 27 09 12 34.0–.94 39.10N–.02 29.12E–.03 13–8 38 0-1
ISCJB V 27 09 12 33.7–.54 39.11N–.03 29.12E–.04 1–7 ¶16855263
ISK V 27 09 12 33.4 39.10N 29.15E 5 2.0
CSEM V 27 09 12 33.9–.09 39.11N 29.13E 5 2.9
DDA V 27 09 12 33.8 39.12N 29.12E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=159.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=108.0.
DDA Event type ke.
ISC V 27 09 33 44.7–.87 39.11N–.02 29.09E–.02 15–7 43 0-1
ISK V 27 09 33 43.9 39.12N 29.07E 5 2.4L ¶16855266
ISCJB V 27 09 33 44.7–.50 39.10N–.03 29.12E–.03 10–5 2.4L
DDA V 27 09 33 44.3 39.12N 29.08E 7 3.0
CSEM V 27 09 33 44.7–.09 39.11N 29.10E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=38.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=123.0.
ISC V 27 09 51 27.5–.90 39.08N–.02 29.08E–.02 13–8 49 0-1
ISK V 27 09 51 26.7 39.07N 29.10E 6 2.4L ¶16855268
ISCJB V 27 09 51 27.4–.46 39.08N–.03 29.07E–.03 4–7 2.4L
CSEM V 27 09 51 27.6–.07 39.09N 29.08E 5 2.8
DDA V 27 09 51 27.6 39.07N 29.07E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=150.9.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=132.0.
DDA Event type ke.
ISC V 27 10 09 55.4–.83 37.22N–.03 28.24E–.03 16–5 31 0-2
ISK V 27 10 09 54.3 37.25N 28.26E 16 2.6 ¶601585810
DDA V 27 10 09 54.6 37.17N 28.23E 7 2.7
CSEM V 27 10 09 55.5–.24 37.23N 28.25E 8 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.3km az=47.0.
ISC V 27 10 17 10.8–1.1 39.08N–.03 29.14E–.04 13–10 38 0-1
ISK V 27 10 17 10.2 39.07N 29.15E 14 2.6L ¶16855270
CSEM V 27 10 17 11.0–.18 39.08N 29.12E 15 2.6L
DDA V 27 10 17 11.1 39.11N 29.04E 7 2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=84.0.
ISC V 27 10 26 14.6–.88 39.12N–.03 29.09E–.05 9 23 0-1
ISK V 27 10 26 13.9 39.17N 29.02E 7 2.6 ¶16855272
ISCJB V 27 10 26 14.4–.65 39.14N–.04 29.08E–.08 9 2.6
CSEM V 27 10 26 14.6–.24 39.14N 29.09E 10 2.6
DDA V 27 10 26 17.0 39.03N 29.11E 7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.4km az=5.7.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.0km az=93.0.
ISC V 27 10 42 55.4–.90 39.08N–.02 29.05E–.02 17–8 60 0-2
ISK V 27 10 42 53.4 39.02N 29.01E 11 2.6 ¶16855273
CSEM V 27 10 42 55.5–.24 39.12N 29.04E 10 2.7L
DDA V 27 10 42 56.1 39.11N 29.06E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.0km az=159.0.
ISC V 27 11 08 43.3–.92 39.12N–.02 28.98E–.02 15–8 62 0-2
ISK V 27 11 08 42.5 39.09N 29.00E 18 2.7 ¶16855275
ISCJB V 27 11 08 43.3–.47 39.13N–.02 28.98E–.03 11–4 2.7
CSEM V 27 11 08 43.3–.11 39.12N 28.99E 15 2.8L
DDA V 27 11 08 44.0 39.11N 28.98E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=103.0.
ISC V 27 11 41 16.3–.94 39.12N–.03 29.05E–.03 11–9 32 0-1
ISK V 27 11 41 14.6 39.00N 29.23E 23 2.3 ¶16855279
ISCJB V 27 11 41 16.1–.56 39.11N–.03 29.05E–.04 9–5 2.3
DDA V 27 11 41 16.4 39.08N 29.05E 7 2.5L
CSEM V 27 11 41 16.1–.25 39.12N 29.04E 10 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.0km az=37.1.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=103.0.
ISC V 27 12 00 21.7–.83 39.64N–.02 27.66E–.02 9–6 94 0-2
ISCJB V 27 12 00 21.5–.38 39.66N–.02 27.65E–.03 6–3 ¶16855281
DDA V 27 12 00 21.5 39.65N 27.65E 11 3.1L
ISK V 27 12 00 21.3 39.65N 27.67E 8 2.9
CSEM V 27 12 00 21.8–.07 39.66N 27.66E 8 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=11.9.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=135.0.

ISC V 27 12 15 30.6–1.3 39.45N–.03 26.12E–.05 10–10 37 0-2
ISK V 27 12 15 29.1 39.64N 25.62E 3 2.8 ¶16855282
CSEM V 27 12 15 29.6–.47 39.49N 26.05E 8 2.6L
ISCJB V 27 12 15 30.5–1.1 39.47N–.03 26.12E–.07 3–7 2.6L
DDA V 27 12 15 33.0 39.41N 26.33E 7 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.4km s-min=6.1km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.8km az=175.0.
ISC V 27 14 16 30.5–.84 39.08N–.03 29.02E–.02 9 54 0-2
ISK V 27 14 16 29.4 39.09N 28.98E 7 2.6 ¶16855286
ISCJB V 27 14 16 30.2–.38 39.12N–.03 29.04E–.04 9 2.6
DDA V 27 14 16 30.7 39.10N 29.07E 7 2.4
CSEM V 27 14 16 30.4–.12 39.12N 29.02E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.9km az=143.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=79.0.
ISC V 27 14 25 44.2–1.1 39.10N–.02 29.05E–.02 2–14 67 0-2
ISCJB V 27 14 25 43.6–.47 39.09N–.03 29.04E–.03 1–6 ¶16855289
ISK V 27 14 25 43.4 39.08N 29.06E 5 3.1L
DDA V 27 14 25 43.7 39.11N 29.05E 7 2.7
CSEM V 27 14 25 44.0–.07 39.09N 29.05E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=125.0.
ISC V 27 15 35 04.3–1.0 39.13N–.03 29.09E–.03 8–11 35 0-2
ISCJB V 27 15 35 04.6–.51 39.12N–.03 29.13E–.04 11–5 ¶16855301
CSEM V 27 15 35 04.7–.11 39.12N 29.12E 10 2.6
ISK V 27 15 35 04.3 39.16N 29.12E 8 2.7
DDA V 27 15 35 04.8 39.08N 29.13E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=42.7.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=105.0.
ISC V 27 16 19 09.0–.93 39.10N–.03 29.00E–.03 9 34 0-2
ISCJB V 27 16 19 08.7–.50 39.09N–.04 29.00E–.04 9 ¶16855305
DDA V 27 16 19 08.4 39.07N 28.99E 7 2.6
ISK V 27 16 19 08.4 39.09N 29.06E 6 2.7
CSEM V 27 16 19 08.8–.10 39.09N 29.01E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=146.1.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=128.0.
ISC V 27 16 27 36.5–.94 39.09N–.02 29.04E–.03 12–10 42 0-2
ISCJB V 27 16 27 36.3–.49 39.09N–.03 29.03E–.04 5–7 ¶16855306
DDA V 27 16 27 36.4 39.10N 29.03E 7 2.9
ISK V 27 16 27 36.2 39.08N 29.10E 9 2.8
CSEM V 27 16 27 36.5–.10 39.10N 29.05E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=38.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=109.0.
ISC V 27 16 38 23.8–.92 39.10N–.02 29.06E–.02 11–8 68 0-2
ISCJB V 27 16 38 23.5–.43 39.10N–.03 29.06E–.03 5–5 ¶16855307
CSEM V 27 16 38 23.7–.06 39.10N 29.06E 6–0 3.0
ISK V 27 16 38 23.3 39.10N 29.11E 8 2.8
DDA V 27 16 38 23.6 39.08N 29.05E 12 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=152.8.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=160.0.
ISC V 27 16 47 28.0–.91 39.11N–.03 29.01E–.02 9 42 0-2
ISCJB V 27 16 47 27.8–.49 39.10N–.04 29.01E–.04 9 ¶16855308
ISK V 27 16 47 27.5 39.12N 29.04E 8 2.7
CSEM V 27 16 47 27.9–.07 39.12N 29.02E 5 2.7
DDA V 27 16 47 27.5 39.10N 29.01E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=162.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=160.0.
ISC V 27 16 56 58.5–1.0 39.11N–.02 29.02E–.02 5–13 58 0-2
DDA V 27 16 56 57.8 39.13N 29.02E 7 3.0 ¶16855309
ISCJB V 27 16 56 58.1–.47 39.11N–.03 29.02E–.03 2–7 3.0
CSEM V 27 16 56 58.3–.09 39.12N 29.02E 2 3.0
ISK V 27 16 56 58.0 39.10N 29.06E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=160.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=100.0.
ISC V 27 18 23 26.8–.95 39.12N–.03 29.13E–.02 10–9 49 0-2
ISCJB V 27 18 23 26.5–.50 39.11N–.03 29.13E–.04 5–6 ¶16855314
DDA V 27 18 23 26.2 39.11N 29.11E 7 2.9
ISK V 27 18 23 26.2 39.10N 29.20E 9 2.8
CSEM V 27 18 23 26.6–.08 39.12N 29.14E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=161.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=99.0.
ISC V 27 18 47 11.3–1.0 39.08N–.02 29.06E–.02 4–11 66 0-2
DDA V 27 18 47 10.7 39.08N 29.04E 7 2.9 ¶16855317
ISK V 27 18 47 10.8 39.08N 29.11E 5 2.9
CSEM V 27 18 47 11.2–.10 39.07N 29.06E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=106.0.
ISC V 27 19 20 18.1–1.0 39.10N–.03 29.02E–.02 19–2 40 0-2
CSEM V 27 19 20 18.7–.13 39.12N 29.02E 8 2.7 ¶16855318
ISK V 27 19 20 18.7 39.15N 29.02E 9 2.7
DDA V 27 19 20 18.2 39.11N 29.03E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=118.0.
ISC V 27 19 34 57.2–.90 39.09N–.03 29.05E–.02 9 36 0-2
ISCJB V 27 19 34 57.2–.47 39.08N–.04 29.04E–.04 9 ¶16855319
CSEM V 27 19 34 57.2–.11 39.10N 29.04E 5 2.5
ISK V 27 19 34 57.1 39.08N 29.12E 12 2.7
DDA V 27 19 34 57.2 39.09N 29.02E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=146.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=117.0.
ISC V 27 19 37 14.0–1.0 39.05N–.04 29.07E–.03 11–9 46 0-2
ISCJB V 27 19 37 14.4–.47 39.09N–.03 29.04E–.04 9–5 ¶16855320
CSEM V 27 19 37 14.6–.10 39.09N 29.05E 10 2.8
ISK V 27 19 37 14.3 39.11N 29.06E 11 2.8
DDA V 27 19 37 14.4 39.07N 29.03E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=152.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=123.0.
ISC V 27 19 54 47.4–1.1 40.63N–.03 42.65E–.03 15–10 27 0-1
ISCJB V 27 19 54 47.5–.80 40.64N–.04 42.66E–.04 10–6 ¶601585826
CSEM V 27 19 54 47.2–.19 40.62N 42.65E 10 2.9
DDA V 27 19 54 47.2 40.64N 42.66E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.8km az=20.5.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=19.0.
ISC V 27 20 05 43.4–.97 39.08N–.03 29.06E–.03 9 22 0-2
ISK V 27 20 05 42.7 39.08N 29.09E 6 2.7 ¶16855322
ISCJB V 27 20 05 43.0–.61 39.07N–.05 29.06E–.06 9 2.7
DDA V 27 20 05 43.1 39.08N 29.07E 7 2.5
CSEM V 27 20 05 43.1–.07 39.07N 29.07E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=135.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=125.0.
ISC V 27 20 09 04.2–.89 39.12N–.02 29.03E–.02 9 42 0-2
DDA V 27 20 09 03.6 39.12N 29.02E 7 2.9 ¶16855323
ISK V 27 20 09 03.7 39.10N 29.09E 9 2.8
ISCJB V 27 20 09 04.1–.42 39.11N–.03 29.03E–.04 9 2.8
CSEM V 27 20 09 04.1–.09 39.12N 29.04E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=84.0.

ISC V 27 20 18 16.1–1.0 39.10N–.03 29.13E–.03 16–11 32 0-2
ISCJB V 27 20 18 16.3–.59 39.08N–.03 29.13E–.04 9–6 ¶16855324
DDA V 27 20 18 16.4 39.06N 29.12E 7 2.7
CSEM V 27 20 18 16.4–.09 39.09N 29.13E 8 2.7
ISK V 27 20 18 17.5 39.20N 29.14E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=143.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=109.0.
ISC V 27 20 25 36.8–1.1 39.10N–.03 29.12E–.03 18–3 28 0-1
ISK V 27 20 25 36.9 39.17N 29.06E 6 2.5 ¶16855325
ISCJB V 27 20 25 37.3–.57 39.11N–.04 29.13E–.05 13–6 2.5
CSEM V 27 20 25 37.2–.15 39.11N 29.13E 10 2.6
DDA V 27 20 25 37.7 39.09N 29.13E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.2km az=139.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=127.0.
ISC V 27 20 41 04.9–.92 39.11N–.02 29.03E–.02 11–8 74 0-6
DDA V 27 20 41 04.4 39.10N 29.04E 7 3.2 ¶16855326
CSEM V 27 20 41 05.3–.10 39.09N 29.05E 2 3.2
ISK V 27 20 41 05.2 39.12N 29.06E 5 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=84.0.
ISC V 27 21 07 25.7–1.0 39.14N–.03 29.09E–.02 5–13 52 0-2
ISK V 27 21 07 24.9 39.11N 29.12E 5 2.8 ¶16855328
ISCJB V 27 21 07 25.4–.60 39.15N–.05 29.08E–.04 0–8 2.8
DDA V 27 21 07 25.3 39.13N 29.09E 7 3.0
CSEM V 27 21 07 25.5–.11 39.12N 29.09E 4–1 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=164.2.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.8km az=159.0.
ISC V 27 21 53 37.7–.88 38.88N–.03 27.18E–.03 12 30 0-2
ISCJB V 27 21 53 38.7–.52 38.88N–.03 27.17E–.05 12 ¶16855332
CSEM V 27 21 53 39.4–.08 38.89N 27.15E 20–0 2.7
ISK V 27 21 53 39.0 38.90N 27.14E 21 2.7
DDA V 27 21 53 41.0 38.70N 27.20E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=19.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=160.0.
ISC V 27 22 10 59.7–.91 39.08N–.03 29.06E–.03 12–9 40 0-2
ISCJB V 27 22 10 59.5–.47 39.09N–.03 29.05E–.04 6–7 ¶16855333
CSEM V 27 22 10 59.7–.11 39.09N 29.06E 8 2.8
ISK V 27 22 10 59.1 39.08N 29.11E 9 2.7
DDA V 27 22 10 59.2 39.09N 29.05E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=144.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=107.0.
ISC V 27 22 22 15.2–1.0 39.14N–.03 28.99E–.02 6–12 56 0-2
ISCJB V 27 22 22 14.8–.45 39.12N–.03 28.99E–.03 6–6 ¶16855334
DDA V 27 22 22 14.3 39.15N 28.99E 6 2.8
ISK V 27 22 22 14.7 39.14N 29.00E 5 2.9
CSEM V 27 22 22 15.0–.08 39.12N 28.99E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=155.9.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=146.0.
ISC V 27 22 34 26.5–.97 39.10N–.04 29.04E–.04 16–9 24 0-1
ISK V 27 22 34 26.3 39.15N 28.92E 6 2.4 ¶16855336
CSEM V 27 22 34 26.9–.27 39.11N 29.02E 12 2.6
ISCJB V 27 22 34 27.1–.59 39.10N–.04 29.02E–.05 13–6 2.6
DDA V 27 22 34 27.5 39.08N 29.03E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.0km az=128.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.7km az=139.0.
ISC V 27 22 43 26.1–.91 39.07N–.04 29.09E–.03 9 26 0-2
ISK V 27 22 43 25.8 39.06N 29.13E 6 2.7 ¶16855337
ISCJB V 27 22 43 26.2–.56 39.06N–.05 29.08E–.05 9 2.7
CSEM V 27 22 43 26.2–.08 39.07N 29.08E 5 2.4
DDA V 27 22 43 26.1 39.07N 29.06E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.0km az=146.4.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=130.0.
ISC V 27 22 59 05.7–.93 39.10N–.02 29.12E–.02 11–10 50 0-2
ISCJB V 27 22 59 05.3–.48 39.10N–.03 29.12E–.04 4–7 ¶16855339
CSEM V 27 22 59 05.6–.09 39.09N 29.13E 5 2.9
ISK V 27 22 59 05.2 39.10N 29.17E 6 2.8
DDA V 27 22 59 05.0 39.12N 29.09E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.2km az=139.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=102.0.
ISC V 28 00 01 33.9–.00 39.08N–.03 29.06E–.03 9 24 0-1
ISCJB V 28 00 01 33.7–.60 39.07N–.05 29.06E–.05 9 ¶16855354
CSEM V 28 00 01 33.7–.14 39.08N 29.06E 5 2.5
DDA V 28 00 01 33.6 39.04N 29.06E 7 2.5
ISK V 28 00 01 34.8 39.22N 29.08E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.2km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=130.0.
ISC V 28 00 15 33.3–.92 39.10N–.03 29.05E–.02 12–9 34 0-1
ISK V 28 00 15 32.9 39.12N 29.05E 10 2.6 ¶16855355
ISCJB V 28 00 15 33.1–.50 39.11N–.03 29.04E–.04 10–6 2.6
CSEM V 28 00 15 33.2–.08 39.10N 29.04E 10 2.6
DDA V 28 00 15 33.1 39.07N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=165.6.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=99.0.
ISC V 28 00 25 26.7–.94 39.07N–.04 29.06E–.03 14–9 34 0-2
ISK V 28 00 25 26.6 39.07N 29.11E 17 2.7 ¶16855356
ISCJB V 28 00 25 27.0–.54 39.10N–.03 29.02E–.04 8–5 2.7
CSEM V 28 00 25 27.0–.08 39.12N 29.01E 8 2.9
DDA V 28 00 25 27.2 39.08N 29.02E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=137.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=107.0.
ISC V 28 00 46 03.6–.91 39.12N–.02 29.13E–.03 16–9 56 0-2
ISCJB V 28 00 46 03.8–.47 39.13N–.03 29.09E–.04 5–6 ¶16855358
ISK V 28 00 46 03.7 39.14N 29.09E 6 2.9
DDA V 28 00 46 03.5 39.12N 29.08E 7 2.8
CSEM V 28 00 46 04.1–.08 39.13N 29.09E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=151.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=113.0.
ISC V 28 01 03 57.0–.93 39.14N–.03 29.12E–.03 15–9 30 0-1
ISCJB V 28 01 03 56.8–.53 39.16N–.04 29.10E–.04 13–5 ¶16855360
ISK V 28 01 03 56.6 39.18N 29.11E 12 2.7
CSEM V 28 01 03 56.8–.11 39.15N 29.12E 13–1 2.7
DDA V 28 01 03 57.1 39.13N 29.11E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.9km az=151.3.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.2km az=142.0.
ISC V 28 01 41 05.1–.84 39.11N–.03 29.02E–.02 9 51 0-2
ISCJB V 28 01 41 05.0–.41 39.08N–.03 29.03E–.04 9 ¶16855361
ISK V 28 01 41 04.6 39.11N 29.06E 8 2.9
DDA V 28 01 41 04.8 39.09N 29.03E 7 2.9
CSEM V 28 01 41 05.0–.06 39.11N 29.05E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=25.1.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=51.0.
ISC V 28 01 43 20.6–.95 39.16N–.05 29.06E–.03 9 28 0-2
ISCJB V 28 01 43 20.7–.65 39.13N–.05 29.12E–.05 9 ¶16855362
DDA V 28 01 43 20.3 39.11N 29.11E 7 2.4
CSEM V 28 01 43 20.8–.16 39.15N 29.12E 5 2.7
ISK V 28 01 43 20.5 39.17N 29.12E 5 2.7

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=160.7.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=131.0.
ISC V 28 01 58 23.0–.92 39.14N–.03 29.09E–.03 9 30 0-2
ISCJB V 28 01 58 22.8–.54 39.12N–.04 29.09E–.04 9 ¶16855364
CSEM V 28 01 58 22.8–.11 39.15N 29.08E 5 2.8
ISK V 28 01 58 22.6 39.15N 29.09E 7 2.8
DDA V 28 01 58 22.5 39.07N 29.10E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.5km az=159.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=116.0.
ISC V 28 02 05 27.6–.91 39.12N–.03 29.01E–.03 9 32 0-2
ISCJB V 28 02 05 27.6–.49 39.11N–.03 29.00E–.04 9 ¶16855365
DDA V 28 02 05 27.1 39.11N 29.00E 7 2.7
ISK V 28 02 05 27.2 39.13N 29.00E 6 2.8
CSEM V 28 02 05 27.6–.09 39.12N 28.99E 6–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=151.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=134.0.
ISC V 28 02 08 51.1–.92 39.10N–.02 29.05E–.02 13–8 36 0-2
DDA V 28 02 08 50.6 39.10N 29.03E 7 2.6 ¶16855366
ISK V 28 02 08 50.9 39.11N 29.05E 7 2.7
ISCJB V 28 02 08 51.2–.51 39.10N–.03 29.04E–.04 7–6 2.7
CSEM V 28 02 08 51.4–.10 39.10N 29.04E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=8.8.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=65.0.
ISC V 28 02 28 01.4–.93 39.13N–.03 29.05E–.03 9 32 0-2
ISCJB V 28 02 28 01.4–.50 39.13N–.03 29.04E–.04 9 ¶16855367
DDA V 28 02 28 01.6 39.09N 29.06E 7 2.6
ISK V 28 02 28 01.0 39.18N 28.99E 5 2.7
CSEM V 28 02 28 01.5–.22 39.13N 29.02E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=137.9.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=94.0.
ISC V 28 02 47 40.9–.88 40.72N–.02 29.21E–.02 11 47 0-2
ISCJB V 28 02 47 40.9–.41 40.72N–.03 29.22E–.04 11 ¶16855370
DDA V 28 02 47 40.8 40.74N 29.23E 7 2.7
ISK V 28 02 47 40.9 40.72N 29.20E 6 2.6
CSEM V 28 02 47 41.3–.08 40.72N 29.21E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=168.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=23.0.
ISC V 28 02 51 42.0–.90 39.61N–.02 27.77E–.02 9–7 120 0-2
DDA V 28 02 51 41.3 39.62N 27.74E 7 2.9 ¶16855372
ISK V 28 02 51 41.4 39.61N 27.77E 7 2.9
CSEM V 28 02 51 41.9–.09 39.61N 27.80E 5 2.9
IASPE V 28 02 51 42.1–.94 39.61N–.02 27.78E–.02 9–7 2.9
THE V 28 02 51 43.4 39.55N 27.75E 2–0 2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=56.0.
IASPE Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=67.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=95.0.
ISC V 28 03 06 03.2–.89 39.08N–.03 29.02E–.03 9 36 0-2
ISCJB V 28 03 06 02.9–.51 39.06N–.04 29.04E–.05 9 ¶16855375
CSEM V 28 03 06 02.8–.11 39.08N 29.03E 2 2.7
ISK V 28 03 06 02.6 39.08N 29.08E 5 2.7
DDA V 28 03 06 02.3 39.09N 29.00E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=154.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=82.0.
ISC V 28 03 11 51.1–.87 39.10N–.03 29.08E–.03 9 33 0-2
ISCJB V 28 03 11 51.6–.57 39.11N–.04 29.08E–.04 9 ¶16855376
DDA V 28 03 11 51.7 39.17N 29.07E 7 2.8
ISK V 28 03 11 51.1 39.11N 29.11E 6 2.8
CSEM V 28 03 11 51.6–.11 39.11N 29.07E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=158.7.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=109.0.
ISC V 28 03 28 19.0–.85 39.11N–.03 29.06E–.03 9 28 0-2
ISK V 28 03 28 18.9 39.07N 29.17E 15 2.7 ¶16855377
ISCJB V 28 03 28 19.5–.53 39.13N–.04 29.03E–.04 9 2.7
CSEM V 28 03 28 19.5–.16 39.14N 29.03E 8 2.4
DDA V 28 03 28 19.6 39.07N 29.02E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=147.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=104.0.
ISC V 28 03 33 18.9–.93 39.13N–.03 28.99E–.03 9 32 0-1
ISCJB V 28 03 33 18.6–.49 39.12N–.03 29.00E–.04 9 ¶16855379
CSEM V 28 03 33 18.7–.07 39.13N 28.98E 5 2.7
ISK V 28 03 33 18.3 39.14N 29.01E 5 2.7
DDA V 28 03 33 18.2 39.15N 28.98E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=155.1.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=77.0.
ISC V 28 03 47 09.8–1.0 39.11N–.03 29.12E–.03 9 28 0-2
ISCJB V 28 03 47 09.5–.52 39.10N–.04 29.12E–.04 9 ¶16855381
CSEM V 28 03 47 09.6–.06 39.11N 29.12E 7–0 2.7
ISK V 28 03 47 09.2 39.13N 29.12E 5 2.7
DDA V 28 03 47 09.1 39.11N 29.11E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=153.5.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=144.0.
ISC V 28 04 36 18.8–1.0 39.12N–.03 29.10E–.03 14–9 47 0-2
ISCJB V 28 04 36 18.6–.69 39.12N–.04 29.07E–.04 4–8 ¶16855383
ISK V 28 04 36 18.7 39.12N 29.11E 6 2.8
DDA V 28 04 36 18.5 39.10N 29.06E 7 2.8
CSEM V 28 04 36 19.0–.15 39.13N 29.07E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.0km az=152.6.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=159.0.
ISC V 28 05 13 53.9–1.0 39.15N–.03 29.11E–.05 9 24 0-2
ISK V 28 05 13 53.8 39.16N 29.18E 7 2.5 ¶16855390
DDA V 28 05 13 53.9 39.11N 29.16E 7 2.1L
ISCJB V 28 05 13 54.0–.80 39.13N–.04 29.14E–.07 9 2.1L
CSEM V 28 05 13 54.2–.14 39.14N 29.17E 8 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.1km az=15.3.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.4km az=106.0.
ISC V 28 05 30 37.1–.85 38.97N–.02 33.38E–.02 11–7 112 0-4
DDA V 28 05 30 36.6 38.96N 33.42E 18 3.4L ¶16855392
ISK V 28 05 30 36.5 38.95N 33.37E 8 3.6L
CSEM V 28 05 30 37.0–.14 38.95N 33.37E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=4.0.
ISC V 28 05 39 17.0–1.0 39.11N–.02 29.04E–.02 5–10 55 0-2
ISCJB V 28 05 39 16.7–.58 39.11N–.04 29.05E–.03 0–8 ¶16855393
CSEM V 28 05 39 16.8–.13 39.11N 29.05E 2 2.8L
ISK V 28 05 39 16.1 39.06N 29.14E 6 2.5
DDA V 28 05 39 16.8 39.14N 29.05E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=164.8.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=143.0.
ISC V 28 05 40 19.0–.92 39.11N–.02 29.07E–.02 11–8 60 0-2
ISCJB V 28 05 40 18.8–.51 39.11N–.03 29.06E–.03 2–6 ¶16855394
ISK V 28 05 40 18.9 39.13N 29.07E 5 2.5L
DDA V 28 05 40 18.3 39.11N 29.06E 7 3.0L
CSEM V 28 05 40 19.1–.07 39.12N 29.06E 2 3.0L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=175.5.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=171.0.

ISC	**v**	**28 05 47 18.4–.74**	**39.13N–.01**	**29.00E–.01**	**13–4**	**4.9b,4.3s**	**1396**	**0-146**
HLW	v	28 05 47 16.8	39.21N	28.95E	33–22	4.4L,4.3s		¶16551277
IDC	v	28 05 47 16.0–.42	39.08N	29.08E	0	4.6,4.5		
DDA	v	28 05 47 16.7	39.12N	29.04E	23	4.7L,4.5		
ISCJB	v	28 05 47 17.9–.24	39.095N–.01	29.03E–.01	20–2	4.8b,4.2s		
NEIC	v	28 05 47 17.0	39.12N	29.05E	9	5.0L,4.9b		
PDG	v	28 05 47 17.6–.49	39.13N	29.03E	15–0	4.7L,4.9b		
ISK	v	28 05 47 17.0	39.11N	29.02E	8	5.0L,4.9b		
GCMT	v	28 05 47 17.0–.20	39.09N	29.04E	14–0	5.1W,4.9b		
MOS	v	28 05 47 17.3–.91	39.14N	29.07E	14	5.1b,4.2s		
THE	v	28 05 47 18.8	39.10N	28.97E	1–2	5.1b,4.2s		
CSEM	v	28 05 47 18.1–.04	39.11N	29.04E	10	5.0b,5.0W		
NIC	v	28 05 47 21.5–.20	39.05N	29.02E	25	5.0b,4.7L		
GII	v	28 05 47 22.3–.00	38.94N	29.11E	28	4.3b,4.2		

ISC Event type fe.
IDC Error ellipse: s-maj=10.0km s-min=8.8km az=169.0.
DDA Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.4km az=32.0.
NEIC Event type fe. Felt [IV] at Bursa and [II] at Simav. Also felt at Istanbul, Izmir, Kocaeli and Mudanya. After ISK. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.57 $M_{\theta\theta}$1.95 $M_{\phi\phi}$-0.38 $M_{r\theta}$0.40 $M_{\theta\phi}$-1.27 $M_{\phi r}$-0.21 Best double couple: NP1:ϕ_s296.00000°,δ51.00000°,λ-86.00000°. NP2:ϕ_s111.00000°,δ39.00000°,λ-94.00000°. Principal axes: T 2.5600,Plg6.0000°,Azm24.0000°; N -0.9300,Plg3.0000°,Azm114.0000°; P -1.6200,Plg83.0000°,Azm228.0000° M_o2.20000×10^{16}
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c60; s92,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.36±.20 $M_{\theta\theta}$3.68±.14; $M_{\phi\phi}$0.67±.13; $M_{r\theta}$-1.07±.25; $M_{\theta\phi}$-2.03±.09; $M_{\phi r}$-1.06±.32; Best double couple: NP1:ϕ_s100.00000°,δ51.00000°,λ-113.00000°. NP2:ϕ_s314.00000°,δ45.00000°,λ-65.00000°. Principal axes: T 4.7300,Plg3.0000°,Azm206.0000°; N 0.1060,Plg18.0000°,Azm115.0000°; P -4.8380,Plg72.0000°,Azm306.0000° M_o4.78400×10^{16}
MOS Error ellipse: s-maj=4.2km s-min=3.2km az=89.3.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.5km az=63.0.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=27.0.
GII Event type ke.

ISC	**v**	**28 05 50 23.3–1.0**	**39.11N–.02**	**29.05E–.02**	**5–10**		**50**	**0-2**
DDA	v	28 05 50 22.7	39.09N	29.04E	7	3.2L		¶16855395
CSEM	v	28 05 50 23.4–.12	39.11N	29.06E	5	3.2L		
ISK	v	28 05 50 23.1	39.11N	29.10E	9	2.1		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=5.0.

ISC	**v**	**28 05 51 41.8–1.2**	**39.06N–.02**	**29.03E–.02**	**1–13**		**70**	**0-2**
CSEM	v	28 05 51 42.5–.12	39.10N	29.06E	2	3.4L		¶16855396
ISK	v	28 05 51 42.1	39.09N	29.05E	5	3.0L		
DDA	v	28 05 51 42.0	39.11N	29.04E	7	3.4L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=20.0.

DDA	**v**	**28 05 52 35.3**	**39.11N**	**29.03E**	**7**	**3.0L**		
								¶603742750
ISK	**v**	**28 05 53 10.8**	**39.05N**	**28.98E**	**7**	**2.6L**		
CSEM	v	28 05 53 10.8	39.05N	28.98E	7	2.6L		¶16855397

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**v**	**28 06 09 04.6–1.0**	**39.08N–.03**	**29.05E–.02**	**7–9**		**51**	**0-2**
ISK	v	28 06 09 03.6	39.06N	29.07E	6	2.4		¶16855402
ISCJB	v	28 06 09 04.3–.58	39.09N–.04	29.05E–.03	1–8	2.4		
CSEM	v	28 06 09 04.6–.12	39.09N	29.06E	5	2.8L		
DDA	v	28 06 09 04.1	39.10N	29.03E	7	2.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.7km az=160.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=147.0.

ISC	**v**	**28 06 16 06.4–.89**	**39.10N–.02**	**29.04E–.02**	**12–7**		**60**	**0-2**
ISK	v	28 06 16 05.7	39.08N	29.08E	10	2.7L,2.7		¶16855405
ISCJB	v	28 06 16 06.1–.55	39.11N–.03	29.03E–.03	2–7	2.7L,2.7		
CSEM	v	28 06 16 06.4–.14	39.10N	29.04E	8	2.9L,2.7		
DDA	v	28 06 16 06.2	39.11N	29.03E	7	2.9L,2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.5km az=168.4.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=154.0.

ISC	**v**	**28 06 26 44.2–.86**	**39.11N–.02**	**29.04E–.02**	**16–7**		**56**	**0-2**
ISK	v	28 06 26 43.9	39.12N	29.07E	6	2.7L		¶16855410
CSEM	v	28 06 26 44.5–.12	39.15N	29.04E	2	2.6L		
DDA	v	28 06 26 44.3	39.11N	29.05E	7	2.6L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=146.0.

ISC	**v**	**28 06 31 58.5–.93**	**39.12N–.03**	**29.03E–.03**	**9**		**30**	**0-2**
ISK	v	28 06 31 57.8	39.13N	29.01E	4	2.2L		¶16855411
ISCJB	v	28 06 31 58.4–.52	39.11N–.04	29.03E–.04	9	2.2L		
DDA	v	28 06 31 58.4	39.08N	29.04E	7	2.5L		
CSEM	v	28 06 31 58.4–.16	39.12N	29.02E	5	2.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.6km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=68.0.

ISC	**v**	**28 06 43 46.1–1.0**	**39.11N–.02**	**29.05E–.02**	**7–9**		**56**	**0-2**
ISK	v	28 06 43 45.7	39.14N	29.02E	5	2.5L		¶16855413
DDA	v	28 06 43 45.7	39.09N	29.06E	7	2.7L		
CSEM	v	28 06 43 46.2–.14	39.12N	29.05E	5	2.7L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=170.0.

ISC	**v**	**28 06 56 39.1–.86**	**38.96N–.02**	**33.40E–.02**	**11–6**		**59**	**0-2**
ISCJB	v	28 06 56 39.0–.52	38.94N–.03	33.38E–.03	2–5			¶16855415
DDA	v	28 06 56 38.4	38.97N	33.42E	1	3.1L		
ISK	v	28 06 56 38.5	38.96N	33.38E	6	2.6L		
CSEM	v	28 06 56 38.9–.16	38.94N	33.38E	5	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=171.1.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=167.0.

ISC	**v**	**28 07 03 06.5–1.0**	**39.11N–.03**	**29.03E–.03**	**11–11**		**50**	**0-2**
ISCJB	v	28 07 03 06.0–.59	39.12N–.04	29.01E–.03	1–7			¶16855416
CSEM	v	28 07 03 06.5–.10	39.12N	29.03E	5	2.8L		
ISK	v	28 07 03 06.0	39.11N	29.06E	5	2.6L		
DDA	v	28 07 03 06.0	39.13N	29.03E	7	2.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.3km az=175.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=169.0.

ISC	**v**	**28 07 07 00.4–1.1**	**39.12N–.02**	**29.07E–.02**	**3–9**		**95**	**0-2**
DDA	v	28 07 06 59.7	39.10N	29.05E	7	3.5L		¶16855417
ISK	v	28 07 06 59.6	39.10N	29.07E	6	3.2L		
CSEM	v	28 07 07 00.3–.08	39.11N	29.07E	2	3.5L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=153.0.

ISC	**v**	**28 07 21 57.5–1.1**	**39.12N–.02**	**29.05E–.02**	**4–10**		**70**	**0-2**
ISK	v	28 07 21 56.9	39.11N	29.06E	5	2.8L		¶16855419
ISCJB	v	28 07 21 57.0–.55	39.10N–.04	29.04E–.03	1–7	2.8L		
CSEM	v	28 07 21 57.4–.08	39.10N	29.05E	5	3.2L		
DDA	v	28 07 21 57.0	39.09N	29.05E	8	3.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.5km az=176.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=174.0.

ISC	**v**	**28 07 35 32.5–1.0**	**39.11N–.02**	**29.12E–.01**	**5–7**	**3.6b**	**338**	**0-39**
ISCJB	v	28 07 35 31.4–.38	39.12N–.01	29.11E–.02	6–3	3.6b		¶16711108
IDC	v	28 07 35 31.5–1.1	38.87N	29.11E	0	3.6,3.6		
DDA	v	28 07 35 31.1	39.13N	29.14E	20	3.9L,3.6		
MOS	v	28 07 35 31.7–.94	39.12N	29.13E	14	4.0b,3.6		
ISK	v	28 07 35 31.3	39.11N	29.13E	8	4.0L,3.6		
CSEM	v	28 07 35 32.0–.07	39.10N	29.12E	5	3.9L,3.6		
THE	v	28 07 35 32.5	39.08N	29.11E	3–1	3.7L,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=137.4.
IDC Error ellipse: s-maj=15.8km s-min=14.1km az=6.0.
MOS Error ellipse: s-maj=7.4km s-min=4.9km az=94.9.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=107.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=93.0.

ISC	**v**	**28 09 21 08.7–1.0**	**39.05N–.03**	**29.08E–.02**	**8–11**		**46**	**0-2**
ISCJB	v	28 09 21 08.4–.59	39.07N–.04	29.06E–.03	1–9			¶16855423
ISK	v	28 09 21 08.0	39.05N	29.09E	5	2.4L		
CSEM	v	28 09 21 08.7–.11	39.08N	29.06E	2	2.7L		
DDA	v	28 09 21 08.4	39.08N	29.05E	7	2.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.2km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=144.0.

ISC	**v**	**28 09 28 17.6–1.1**	**39.09N–.02**	**29.04E–.02**	**5–8**	**3.4b,2.6s**	**196**	**0-73**
IDC	v	28 09 28 14.6–2.8	38.96N	28.83E	0	3.6b,3.5L		¶16711114
ISK	v	28 09 28 17.2	39.11N	29.04E	5	3.8L,3.5L		
CSEM	v	28 09 28 17.7–.08	39.09N	29.03E	2	3.6L,3.5L		
ISCJB	v	28 09 28 17.4–.42	39.09N–.01	29.02E–.02	4–3	3.5b,2.8s		
DDA	v	28 09 28 17.5	39.11N	29.03E	14	3.6L,2.8s		
THE	v	28 09 28 19.4	39.04N	28.95E	1–0	3.4L,2.8s		

ISC Event type ke.
IDC Error ellipse: s-maj=43.9km s-min=22.9km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=177.8.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=70.0.

ISC	**v**	**28 09 47 15.7–.90**	**39.12N–.03**	**29.03E–.03**	**17–7**		**35**	**0-2**
DDA	v	28 09 47 15.6	39.13N	29.03E	7	2.5L		¶16855427
ISK	v	28 09 47 15.4	39.09N	29.08E	5	2.1L		
CSEM	v	28 09 47 16.2–.08	39.12N	29.03E	4–1	2.5L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=140.0.

ISC	**v**	**28 09 55 48.0–.98**	**39.13N–.02**	**29.11E–.02**	**7–10**		**129**	**0-3**
DDA	v	28 09 55 47.6	39.14N	29.11E	5	3.7L		¶16855428
ISK	v	28 09 55 47.3	39.11N	29.13E	6	3.3L		
CSEM	v	28 09 55 47.8–.10	39.12N	29.11E	2	3.7L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=118.0.

ISC	**v**	**28 10 05 28.3–.91**	**39.08N–.02**	**29.04E–.02**	**11–8**		**60**	**0-2**
ISK	v	28 10 05 27.4	39.09N	29.06E	8	2.6L		¶16855430
CSEM	v	28 10 05 28.2–.15	39.10N	29.03E	5	2.7L		
DDA	v	28 10 05 28.5	39.07N	29.05E	7	2.7L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=149.0.

ISC	**v**	**28 10 07 02.4–.93**	**39.12N–.02**	**29.11E–.02**	**11–9**		**56**	**0-2**
ISK	v	28 10 07 01.5	39.12N	29.10E	6	2.4L		¶16855431
ISCJB	v	28 10 07 02.1–.47	39.11N–.03	29.11E–.03	5–6	2.4L		
CSEM	v	28 10 07 02.3–.10	39.12N	29.11E	8	2.6L		
DDA	v	28 10 07 02.2	39.10N	29.13E	7	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=154.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=113.0.

ISC	**v**	**28 10 14 20.1–1.1**	**39.11N–.03**	**29.02E–.04**	**15–11**		**32**	**0-2**
ISK	v	28 10 14 19.5	39.14N	28.97E	9	2.3L		¶16855432
ISCJB	v	28 10 14 20.4–.53	39.11N–.03	29.03E–.04	10–5	2.3L		
CSEM	v	28 10 14 20.3–.15	39.12N	29.00E	10	2.7L		
DDA	v	28 10 14 20.6	39.08N	29.05E	7	2.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.8km az=44.7.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=106.0.

ISC	**v**	**28 10 23 13.1–.94**	**39.10N–.01**	**29.04E–.01**	**9–8**		**216**	**0-3**
DDA	v	28 10 23 12.7	39.12N	29.02E	10	3.5L		¶601585842
ISK	v	28 10 23 12.4	39.10N	29.03E	5	3.5L		
ISCJB	v	28 10 23 13.1–.41	39.11N–.02	29.01E–.02	2–3	3.5L		
THE	v	28 10 23 13.2	39.04N	29.11E	4–1	3.3L		
CSEM	v	28 10 23 13.4–.09	39.09N	29.01E	2	3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=160.1.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=127.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=111.0.

ISC	**v**	**28 11 06 41.7–.92**	**39.07N–.03**	**29.07E–.03**	**14–9**		**32**	**0-2**
ISCJB	v	28 11 06 41.9–.57	39.12N–.03	29.03E–.04	7–6			¶16855441
ISK	v	28 11 06 41.1	39.08N	29.10E	12	2.6		
CSEM	v	28 11 06 41.8–.23	39.11N	29.02E	10	2.2L		
DDA	v	28 11 06 42.1	39.14N	29.03E	7	2.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.6km az=135.4.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=113.0.

ISC	**v**	**28 11 21 14.5–1.0**	**39.14N–.02**	**29.06E–.02**	**6–9**		**122**	**0-2**
DDA	v	28 11 21 13.8	39.10N	29.06E	14	3.6L		¶16855444
ISK	v	28 11 21 13.6	39.12N	29.07E	8	3.5L		
CSEM	v	28 11 21 14.1–.07	39.13N	29.06E	5	3.6L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=109.0.

ISC	**v**	**28 11 56 13.2–1.0**	**39.10N–.03**	**29.03E–.02**	**6–9**		**58**	**0-2**
ISK	v	28 11 56 12.4	39.08N	29.06E	7	2.6		¶16855457
DDA	v	28 11 56 13.3	39.09N	29.05E	7	2.8L		
CSEM	v	28 11 56 13.4–.17	39.10N	29.04E	5	2.8L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=162.0.

ISC	**v**	**28 11 58 44.0–.94**	**38.36N–.03**	**37.62E–.03**	**11–8**		**27**	**0-2**
CSEM	v	28 11 58 42.6–.26	38.27N	37.56E	2	2.6L		¶16855458
ISK	v	28 11 58 43.3	38.31N	37.57E	8	2.9		
ISCJB	v	28 11 58 44.4–.80	38.37N–.03	37.61E–.05	4–7	2.9		
DDA	v	28 11 58 44.1	38.36N	37.63E	7	2.6L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.3km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.7km az=169.0.

ISC	**v**	**28 12 13 37.9–.96**	**39.14N–.03**	**29.07E–.04**	**17–12**		**32**	**0-2**
ISK	v	28 12 13 37.6	39.15N	29.04E	5	2.5L		¶16855460
ISCJB	v	28 12 13 38.1–.54	39.14N–.03	29.08E–.04	7–6	2.5L		
DDA	v	28 12 13 38.1	39.15N	29.09E	7	2.5L		
CSEM	v	28 12 13 38.1–.12	39.14N	29.07E	8	2.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=24.2.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=98.0.

ISC	**v**	**28 12 27 14.4–.92**	**39.10N–.02**	**29.03E–.02**	**11–8**		**55**	**0-2**
ISK	v	28 12 27 13.4	39.10N	29.04E	6	2.5L		¶16855462
CSEM	v	28 12 27 14.4–.17	39.11N	29.04E	5	2.9L		
DDA	v	28 12 27 14.3	39.09N	29.05E	7	2.9L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=147.0.

ISC	**v**	**28 12 52 20.2–.86**	**39.08N–.03**	**29.06E–.02**	**17–7**		**56**	**0-2**
ISK	v	28 12 52 19.7	39.11N	29.04E	5	2.4L		¶16855465
CSEM	v	28 12 52 20.5–.12	39.12N	29.04E	5	2.8L		
DDA	v	28 12 52 20.5	39.09N	29.05E	7	2.8L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=156.0.

ISC	**v**	**28 13 01 26.0–.88**	**39.96N–.02**	**39.15E–.02**	**14–7**		**57**	**0-2**
ISCJB	v	28 13 01 25.9–.52	39.96N–.02	39.17E–.04	9–5			¶16855466
ISK	v	28 13 01 25.7	39.98N	39.23E	20	2.8		
CSEM	v	28 13 01 25.9–.21	39.96N	39.16E	12	2.6L		
DDA	v	28 13 01 26.2	39.93N	39.13E	7	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=171.5.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=129.0.

ISC	**v**	**28 13 02 54.1–.95**	**39.07N–.03**	**29.07E–.02**	**11–9**		**48**	**0-2**
ISK	v	28 13 02 53.8	39.08N	29.12E	15	2.4L		¶16855467
ISCJB	v	28 13 02 54.4–.52	39.11N–.03	29.02E–.03	2–7	2.4L		
DDA	v	28 13 02 54.5	39.11N	29.04E	7	2.8L		
CSEM	v	28 13 02 54.6–.15	39.11N	29.04E	8	2.8L		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=168.8.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=152.0.
ISC V 28 13 17 31.4–1.0 39.14N–.02 29.02E–.02 6–9 76 0-2
ISK V 28 13 17 30.4 39.13N 29.02E 4 2.8L ¶16855469
CSEM V 28 13 17 31.2–.11 39.15N 29.02E 2 3.3L
DDA V 28 13 17 31.3 39.10N 29.03E 7 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=157.0.
ISC V 28 13 26 01.4–.95 39.13N–.02 29.02E–.02 9–8 104 0-2
ISK V 28 13 26 00.9 39.12N 29.05E 8 3.2L ¶16855471
DDA V 28 13 26 01.0 39.11N 29.02E 8 3.5L
CSEM V 28 13 26 01.4–.08 39.12N 29.02E 5 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=117.0.
ISC V 28 14 37 18.3–1.1 39.10N–.03 29.04E–.02 4–11 38 0-2
DDA V 28 14 37 17.8 39.08N 29.03E 7 2.4L ¶16855474
ISCJB V 28 14 37 18.3–.64 39.11N–.04 29.05E–.04 1–10 2.4L
CSEM V 28 14 37 18.7–.19 39.14N 29.06E 2 2.4L
ISK V 28 14 37 19.1 39.17N 29.08E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=166.4.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=31.0.
ISC V 28 14 45 55.9–1.1 39.12N–.03 29.12E–.02 3–14 36 0-2
ISCJB V 28 14 45 55.5–.64 39.11N–.04 29.12E–.04 2–9 ¶16855476
CSEM V 28 14 45 55.7–.12 39.11N 29.11E 5 2.5L
ISK V 28 14 45 55.8 39.14N 29.18E 5 2.7
DDA V 28 14 45 55.2 39.10N 29.11E 7 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.0km az=162.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=93.0.
ISC V 28 15 24 40.9–.92 39.11N–.03 29.01E–.03 12–8 30 0-2
ISCJB V 28 15 24 40.7–.58 39.11N–.04 29.01E–.04 5–7 ¶16855478
CSEM V 28 15 24 40.6–.19 39.13N 28.98E 8 2.4L
ISK V 28 15 24 40.4 39.11N 29.05E 12 2.7
DDA V 28 15 24 40.7 39.13N 29.01E 7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.1km az=156.7.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=92.0.
ISC V 28 15 33 33.7–1.1 39.14N–.03 29.07E–.03 4–13 30 0-2
ISCJB V 28 15 33 33.3–.67 39.12N–.04 29.07E–.04 1–10 ¶16855479
CSEM V 28 15 33 33.5–.08 39.13N 29.07E 2 2.3L
ISK V 28 15 33 33.2 39.13N 29.12E 5 2.6
DDA V 28 15 33 33.2 39.10N 29.06E 7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=159.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=114.0.
ISC V 28 15 51 55.9–.94 39.16N–.02 29.07E–.03 16–9 50 0-2
ISCJB V 28 15 51 56.0–.49 39.15N–.03 29.06E–.04 6–5 ¶16855482
ISK V 28 15 51 55.6 39.17N 29.06E 5 2.8
DDA V 28 15 51 56.2 39.13N 29.10E 7 2.9L
CSEM V 28 15 51 56.1–.09 39.15N 29.06E 8 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=150.1.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=114.0.
ISC V 28 16 02 38.9–.93 39.11N–.03 29.03E–.02 9 72 0-2
ISK V 28 16 02 37.4 39.10N 29.01E 5 3.0L ¶16855483
ISCJB V 28 16 02 38.8–.40 39.09N–.03 29.01E–.04 9 3.0L
DDA V 28 16 02 38.4 39.11N 29.05E 7 2.9
CSEM V 28 16 02 38.6–.09 39.10N 29.02E 2 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=21.4.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=115.0.
ISC V 28 16 33 58.2–.92 39.17N–.03 29.00E–.03 9 26 0-2
ISK V 28 16 33 57.7 39.20N 28.97E 6 2.7 ¶16855486
ISCJB V 28 16 33 58.2–.58 39.18N–.04 28.99E–.05 9 2.7
CSEM V 28 16 33 58.2–.12 39.19N 28.97E 10 2.5
DDA V 28 16 33 58.8 39.11N 29.01E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=142.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=110.0.
ISC V 28 16 43 20.2–.95 39.12N–.03 29.09E–.02 10–9 38 0-2
DDA V 28 16 43 19.9 39.08N 29.09E 7 2.7 ¶16855487
ISCJB V 28 16 43 20.2–.53 39.11N–.03 29.09E–.04 8–5 2.7
CSEM V 28 16 43 20.3–.11 39.13N 29.08E 5 2.7
ISK V 28 16 43 20.1 39.16N 29.08E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.1km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=79.0.
ISC V 28 17 28 07.5–.83 39.11N–.02 29.06E–.02 9 62 0-2
ISK V 28 17 28 06.2 39.10N 29.05E 5 2.9L ¶16855489
ISCJB V 28 17 28 07.5–.35 39.09N–.03 29.05E–.03 9 2.9L
DDA V 28 17 28 07.3 39.08N 29.07E 7 3.0L
CSEM V 28 17 28 07.5–.09 39.11N 29.05E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=28.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=76.0.
ISC V 28 17 32 06.5–.86 39.08N–.04 29.10E–.03 9 29 0-2
ISK V 28 17 32 06.3 39.04N 29.24E 14 2.7 ¶16855490
DDA V 28 17 32 07.0 39.08N 29.05E 7 2.6
ISCJB V 28 17 32 07.1–.51 39.11N–.04 29.07E–.04 9 2.6
CSEM V 28 17 32 07.0–.22 39.13N 29.08E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=152.2.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.1km az=103.0.
ISC V 28 17 40 49.4–.89 39.12N–.02 29.05E–.02 14–8 40 0-2
ISCJB V 28 17 40 49.5–.54 39.13N–.04 29.05E–.04 4–8 ¶16855491
DDA V 28 17 40 49.4 39.12N 29.02E 7 2.7
ISK V 28 17 40 49.2 39.11N 29.09E 6 2.7
CSEM V 28 17 40 49.8–.13 39.12N 29.05E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=158.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=100.0.
ISC V 28 17 41 55.4–1.2 39.12N–.03 29.05E–.02 1–15 60 0-2
ISK V 28 17 41 54.2 39.11N 29.04E 5 2.9 ¶16855492
DDA V 28 17 41 54.9 39.08N 29.05E 7 2.9
CSEM V 28 17 41 55.3–.09 39.11N 29.05E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=137.0.
ISC V 28 18 01 57.7–.91 39.14N–.03 29.15E–.03 9 28 0-2
ISCJB V 28 18 01 57.5–.53 39.14N–.03 29.15E–.04 9 ¶16855493
CSEM V 28 18 01 57.5–.14 39.16N 29.15E 5 2.6
ISK V 28 18 01 57.6 39.18N 29.15E 6 2.7
DDA V 28 18 01 57.5 39.09N 29.15E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=138.2.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=106.0.
ISC V 28 18 03 46.1–.83 39.06N–.03 29.10E–.03 9 28 0-2
ISK V 28 18 03 45.7 39.01N 29.29E 9 2.8 ¶16855494
ISCJB V 28 18 03 46.8–.54 39.11N–.04 29.05E–.04 9 2.8
DDA V 28 18 03 46.3 39.10N 29.04E 7 2.5
CSEM V 28 18 03 46.8–.26 39.13N 29.05E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=148.4.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.6km az=111.0.
ISC V 28 18 06 49.4–.40 39.13N–.01 29.01E–.01 10 3.8b 422 0-73
ISK V 28 18 06 46.9 39.11N 29.05E 5 4.1L ¶16711153
NEIC V 28 18 06 46.9 39.11N 29.05E 5 4.2b,4.1L
IDC V 28 18 06 47.7–.82 39.08N 29.02E 0 3.7,3.7
DDA V 28 18 06 47.5 39.11N 29.03E 17 4.0L,3.7
MOS V 28 18 06 48.0–.87 39.14N 29.03E 9 4.0b,3.7
CSEM V 28 18 06 48.3–.07 39.10N 29.04E 2 3.9b,3.7
ISCJB V 28 18 06 48.1–.15 39.10N–.01 29.02E–.02 10 3.8b,3.7
THE V 28 18 06 49.3 39.04N 28.97E 2–1 3.8L,3.7
ISC Event type ke.
NEIC Event type se. After ISK.
IDC Error ellipse: s-maj=13.8km s-min=11.5km az=37.0.
DDA Event type ke.
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=77.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=71.0.
ISCJB Event type ke. Error ellipse: s-maj=1.8km s-min=1.8km az=151.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=87.0.
ISC V 28 18 10 01.6–1.1 39.09N–.03 29.05E–.02 3–11 52 0-2
DDA V 28 18 10 00.9 39.08N 29.03E 7 2.8 ¶16855495
ISCJB V 28 18 10 01.2–.55 39.07N–.04 29.04E–.03 2–7 2.8
CSEM V 28 18 10 01.4–.08 39.08N 29.04E 2 2.8
ISK V 28 18 10 01.1 39.06N 29.08E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.9km az=92.0.
ISC V 28 18 15 18.7–.90 39.11N–.02 29.04E–.02 13–8 44 0-2
ISCJB V 28 18 15 18.6–.50 39.11N–.03 29.04E–.03 5–6 ¶16855496
CSEM V 28 18 15 18.8–.08 39.11N 29.04E 5 2.9
ISK V 28 18 15 18.4 39.11N 29.05E 7 2.8
DDA V 28 18 15 18.8 39.08N 29.04E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.2km az=154.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=152.0.
ISC V 28 18 21 47.0–.98 39.13N–.03 29.03E–.03 9 28 0-1
ISK V 28 18 21 46.6 39.12N 29.02E 8 2.6 ¶16855497
ISCJB V 28 18 21 47.2–.53 39.11N–.04 29.04E–.04 9 2.6
DDA V 28 18 21 47.0 39.08N 29.04E 7 2.2
CSEM V 28 18 21 47.1–.08 39.12N 29.02E 8 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=147.1.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=97.0.
ISC V 28 18 23 44.4–.99 39.10N–.02 29.04E–.02 9–10 42 0-2
DDA V 28 18 23 43.8 39.10N 29.03E 10 2.4 ¶16855498
ISCJB V 28 18 23 44.2–.49 39.08N–.03 29.04E–.03 3–7 2.4
CSEM V 28 18 23 44.5–.09 39.10N 29.05E 2 2.4
ISK V 28 18 23 44.3 39.11N 29.06E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=173.2.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=176.0.
DDA V 28 18 24 12.7 39.12N 29.15E 7 2.5
¶602862253
ISC V 28 18 26 50.5–.98 39.10N–.03 29.05E–.03 13–11 32 0-2
DDA V 28 18 26 49.7 39.12N 29.06E 7 2.7 ¶16855499
ISCJB V 28 18 26 50.4–.58 39.10N–.04 29.05E–.04 6–8 2.7
CSEM V 28 18 26 50.7–.13 39.10N 29.04E 5 2.7
ISK V 28 18 26 50.2 39.12N 29.01E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.5km az=179.9.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=125.0.
ISC V 28 18 52 48.2–1.1 39.11N–.04 29.09E–.03 18–4 38 0-2
ISCJB V 28 18 52 48.7–.52 39.13N–.03 29.08E–.04 9–5 ¶16855501
DDA V 28 18 52 48.0 39.14N 29.07E 7 2.4
ISK V 28 18 52 48.6 39.13N 29.12E 10 2.7
CSEM V 28 18 52 48.8–.05 39.13N 29.08E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.9km az=30.6.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=93.0.
ISC V 28 18 59 13.1–.99 39.08N–.03 29.04E–.02 8–9 60 0-2
DDA V 28 18 59 12.8 39.07N 29.04E 7 3.0L ¶16855502
ISCJB V 28 18 59 13.1–.52 39.08N–.04 29.05E–.03 2–6 3.0L
ISK V 28 18 59 13.2 39.07N 29.05E 6 2.8
CSEM V 28 18 59 13.4–.07 39.08N 29.06E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=178.7.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=158.0.
ISC V 28 19 15 11.0–1.0 39.04N–.03 29.10E–.02 9–9 54 0-2
ISCJB V 28 19 15 11.7–.49 39.08N–.03 29.06E–.03 6–6 ¶16855505
CSEM V 28 19 15 11.7–.11 39.10N 29.06E 5 2.9
ISK V 28 19 15 11.3 39.08N 29.13E 9 2.8
DDA V 28 19 15 11.4 39.10N 29.02E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.0km az=156.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=155.0.
ISC V 28 19 21 49.2–.00 39.11N–.02 29.03E–.02 7–9 67 0-2
ISK V 28 19 21 48.3 39.13N 29.03E 5 2.8 ¶16855507
ISCJB V 28 19 21 49.0–.48 39.12N–.03 29.02E–.03 3–6 2.8
DDA V 28 19 21 49.1 39.08N 29.02E 7 2.8
CSEM V 28 19 21 49.3–.10 39.13N 29.03E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.7km az=0.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=173.0.
ISC V 28 19 28 31.8–.99 40.13N–.03 42.05E–.03 11–8 33 0-2
ISK V 28 19 28 30.4 40.24N 42.08E 5 2.8 ¶16855509
CSEM V 28 19 28 31.7–.23 40.11N 42.02E 10 2.8
ISCJB V 28 19 28 32.1–.51 40.11N–.04 42.03E–.04 10–6 2.8
DDA V 28 19 28 32.0 40.13N 42.04E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=15.6.
ISC V 28 19 38 46.6–1.0 39.13N–.03 29.11E–.03 13–12 28 0-1
ISCJB V 28 19 38 46.5–.58 39.12N–.04 29.10E–.04 6–7 ¶16855510
CSEM V 28 19 38 46.6–.12 39.13N 29.10E 8 2.2
ISK V 28 19 38 46.0 39.15N 29.11E 8 2.6
DDA V 28 19 38 46.5 39.09N 29.12E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=135.0.
ISC V 28 19 52 48.6–.88 39.11N–.02 29.03E–.02 14–7 70 0-2
CSEM V 28 19 52 48.9–.09 39.11N 29.04E 2 2.8 ¶16855511
ISK V 28 19 52 48.7 39.10N 29.01E 5 2.9
DDA V 28 19 52 48.2 39.12N 29.03E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=171.0.
ISC V 28 19 56 48.5–1.0 39.10N–.02 29.04E–.02 7–10 42 0-2
DDA V 28 19 56 47.6 39.13N 29.02E 7 2.7 ¶16855512
ISCJB V 28 19 56 48.1–.51 39.09N–.04 29.04E–.04 3–8 2.7
CSEM V 28 19 56 48.4–.07 39.09N 29.05E 5 2.7
ISK V 28 19 56 48.0 39.10N 29.04E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=16.7.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=60.0.
ISC V 28 20 03 06.3–1.1 39.13N–.03 29.01E–.02 5–12 60 0-2
ISCJB V 28 20 03 05.9–.48 39.12N–.03 29.01E–.03 4–6 ¶16855514
ISK V 28 20 03 05.9 39.13N 29.01E 7 2.9
DDA V 28 20 03 05.8 39.12N 29.01E 7 2.9
CSEM V 28 20 03 06.2–.05 39.12N 29.01E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=0.8.
CSEM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=151.0.
ISC V 28 20 45 51.6–.88 39.11N–.02 29.04E–.02 9 86 0-2
ISK V 28 20 45 50.7 39.10N 29.04E 4 3.1L ¶16855520
ISCJB V 28 20 45 51.6–.31 39.10N–.02 29.03E–.04 9 3.1L
CSEM V 28 20 45 51.3–.08 39.11N 29.05E 2 3.1L
DDA V 28 20 45 51.1 39.13N 29.04E 7 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=97.0.
ISC V 28 21 03 38.9–.86 39.09N–.03 29.00E–.02 9 62 0-2

ISCJB V 28 21 03 38.8–.40 39.08N–.03 29.00E–.03 9 ¶16855521
ISK V 28 21 03 38.2 39.09N 29.01E 4 2.9
DDA V 28 21 03 38.7 39.10N 29.03E 7 3.0
CSEM V 28 21 03 38.8–.07 39.09N 29.01E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=175.1.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=149.0.
ISC V 28 21 14 44.7–1.3 39.09N–.02 29.08E–.02 8–11 77 0-3
DDA V 28 21 14 44.8 39.13N 29.05E 7 3.2L ¶16855522
ISK V 28 21 14 44.7 39.08N 29.07E 3 3.0
CSEM V 28 21 14 45.3–.10 39.08N 29.08E 2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=137.0.
ISC V 28 21 33 26.3–.97 39.14N–.03 29.03E–.03 10–11 30 0-1
ISK V 28 21 33 25.6 39.12N 29.08E 10 2.6 ¶16855525
ISCJB V 28 21 33 26.2–.56 39.13N–.04 29.02E–.04 5–7 2.6
CSEM V 28 21 33 26.2–.12 39.12N 29.04E 8 2.6
DDA V 28 21 33 26.1 39.08N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.7km az=156.1.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=152.0.
ISC V 28 21 42 28.4–.93 39.11N–.03 29.13E–.03 9 30 0-2
ISK V 28 21 42 27.3 39.07N 29.22E 5 2.7 ¶16855527
DDA V 28 21 42 27.9 39.08N 29.13E 7 2.8
ISCJB V 28 21 42 28.1–.51 39.09N–.04 29.14E–.04 9 2.8
CSEM V 28 21 42 28.1–.08 39.10N 29.14E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.5km az=151.8.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=113.0.
ISC V 28 21 56 34.0–.84 39.13N–.03 29.08E–.04 9 41 0-2
ISCJB V 28 21 56 34.4–.43 39.13N–.03 29.00E–.04 9 ¶16855529
CSEM V 28 21 56 34.5–.13 39.15N 28.99E 5 2.8
ISK V 28 21 56 34.3 39.16N 28.99E 6 2.7
DDA V 28 21 56 34.6 39.11N 29.01E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=165.1.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=50.0.
ISC V 28 21 59 34.8–.97 39.07N–.03 29.04E–.03 9 44 0-2
ISK V 28 21 59 33.9 39.08N 29.01E 5 2.9 ¶16855530
DDA V 28 21 59 34.9 39.08N 29.03E 7 3.1L
ISCJB V 28 21 59 35.0–.47 39.05N–.04 29.01E–.04 9 3.1L
CSEM V 28 21 59 35.0–.13 39.08N 29.02E 2 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=17.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.1km az=11.0.
ISC V 28 22 07 54.4–1.0 39.10N–.03 29.07E–.03 7–10 34 0-2
ISK V 28 22 07 53.6 39.10N 29.09E 7 2.7 ¶16855532
DDA V 28 22 07 54.0 39.07N 29.08E 7 2.6
ISCJB V 28 22 07 54.0–.56 39.10N–.04 29.06E–.04 2–9 2.6
CSEM V 28 22 07 54.2–.10 39.11N 29.06E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=168.3.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=107.0.
ISC V 28 22 12 09.1–1.1 39.36N–.03 41.03E–.04 24–11 26 0-2
ISK V 28 22 12 08.7 39.38N 41.01E 24 2.6 ¶16855533
ISCJB V 28 22 12 09.5–.65 39.36N–.04 41.02E–.07 27–6 2.6
CSEM V 28 22 12 09.2–.33 39.37N 41.04E 22–3 2.6
DDA V 28 22 12 10.5 39.33N 41.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.3km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=6.3km az=135.0.
ISC V 28 22 45 28.3–.97 39.12N–.03 28.89E–.03 8–10 26 0-1
ISK V 28 22 45 27.6 39.07N 28.99E 13 2.7 ¶16855535
CSEM V 28 22 45 28.3–.20 39.15N 28.88E 2 2.4
DDA V 28 22 45 28.1 39.09N 28.90E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=142.0.
DDA Event type ke.
ISC V 28 22 47 53.1–1.1 39.13N–.03 29.02E–.03 9 26 0-1
ISK V 28 22 47 52.4 39.07N 29.15E 16 2.7 ¶16855536
DDA V 28 22 47 52.6 39.20N 29.03E 7 2.4
ISCJB V 28 22 47 53.2–.56 39.14N–.04 29.03E–.04 9 2.4
CSEM V 28 22 47 53.3–.22 39.13N 29.01E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.6km az=153.6.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.9km az=101.0.
ISC V 28 22 52 22.5–1.0 39.11N–.03 29.06E–.03 9 30 0-1
ISK V 28 22 52 21.8 39.10N 29.08E 9 2.6 ¶16855537
ISCJB V 28 22 52 22.1–.50 39.10N–.03 29.06E–.04 9 2.6
CSEM V 28 22 52 22.2–.06 39.11N 29.06E 7–1 2.5
DDA V 28 22 52 22.1 39.08N 29.06E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.5km az=165.7.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=78.0.
DDA Event type ke.
ISC V 28 23 00 43.4–.96 39.09N–.03 29.14E–.02 9–9 48 0-2
ISK V 28 23 00 42.9 39.07N 29.16E 8 2.8 ¶16855538
ISCJB V 28 23 00 43.2–.51 39.09N–.04 29.13E–.03 5–7 2.8
CSEM V 28 23 00 43.4–.07 39.10N 29.14E 5 2.7
DDA V 28 23 00 43.1 39.13N 29.10E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.5km az=174.2.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=143.0.
ISC V 28 23 29 15.9–.96 39.10N–.03 29.03E–.02 9–10 41 0-2
ISCJB V 28 23 29 15.6–.58 39.11N–.04 29.03E–.04 1–8 ¶16855541
CSEM V 28 23 29 15.9–.10 39.10N 29.03E 5 2.2L
ISK V 28 23 29 15.4 39.09N 29.10E 8 2.7
DDA V 28 23 29 15.4 39.12N 29.03E 7 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.7km az=163.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=90.0.
DDA Event type ke.
ISC V 28 23 33 12.5–.93 39.08N–.03 29.07E–.03 9 30 0-2
ISK V 28 23 33 11.4 39.06N 29.12E 6 2.7 ¶16855542
DDA V 28 23 33 11.8 39.08N 29.06E 7 2.5
ISCJB V 28 23 33 12.2–.52 39.09N–.04 29.06E–.04 9 2.5
CSEM V 28 23 33 12.2–.14 39.09N 29.06E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.5km az=150.8.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=98.0.
ISC V 28 23 39 08.7–.90 37.96N–.04 27.18E–.03 15–7 30 0-2
ISCJB V 28 23 39 08.6–.52 37.95N–.05 27.16E–.04 11–5 ¶16855544
CSEM V 28 23 39 08.7–.13 37.94N 27.17E 15 2.6
ISK V 28 23 39 08.8 37.95N 27.25E 27 2.4
DDA V 28 23 39 08.9 37.94N 27.12E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=3.9km az=30.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.4km az=32.0.
ISC V 29 00 04 28.1–.91 39.12N–.03 29.07E–.03 9 32 0-2
ISCJB V 29 00 04 27.9–.49 39.11N–.03 29.08E–.04 9 ¶16855559
DDA V 29 00 04 27.7 39.08N 29.08E 7 2.8
ISK V 29 00 04 27.7 39.13N 29.08E 8 2.7
CSEM V 29 00 04 28.0–.09 39.13N 29.07E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.5km az=136.6.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=90.0.
ISC V 29 00 19 03.8–.97 39.10N–.04 29.03E–.03 9 31 0-2
ISK V 29 00 19 02.5 39.09N 29.07E 4 2.7 ¶16855561
ISCJB V 29 00 19 03.5–.55 39.08N–.05 29.02E–.04 9 2.7
DDA V 29 00 19 03.2 39.11N 29.03E 7 2.6
CSEM V 29 00 19 03.5–.18 39.09N 29.02E 5 2.6

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=159.6.
CSEM Event type ke.
ISC V 29 00 21 04.8–.89 39.12N–.03 29.03E–.03 9 22 0-1
ISK V 29 00 21 04.5 39.11N 29.04E 12 2.5 ¶602862262
ISCJB V 29 00 21 05.8–.60 39.15N–.04 29.02E–.04 9 2.5
DDA V 29 00 21 05.9 39.11N 29.04E 7 2.5
CSEM V 29 00 21 05.6–.26 39.14N 29.00E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.7km az=159.6.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=6.0km az=118.0.
ISC V 29 00 36 31.0–.89 39.08N–.04 29.12E–.03 9 24 0-2
ISK V 29 00 36 30.9 39.06N 29.19E 10 2.5 ¶16855563
ISCJB V 29 00 36 32.0–.57 39.10N–.04 29.12E–.04 9 2.5
DDA V 29 00 36 32.2 39.09N 29.12E 7 2.7
CSEM V 29 00 36 32.0–.13 39.10N 29.11E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=104.0.
ISC V 29 00 39 15.7–.90 39.13N–.02 29.09E–.02 14–7 56 0-2
ISCJB V 29 00 39 15.6–.51 39.13N–.04 29.08E–.03 5–7 ¶16855564
CSEM V 29 00 39 15.7–.07 39.14N 29.08E 5 2.9
ISK V 29 00 39 15.3 39.13N 29.08E 5 2.9
DDA V 29 00 39 15.4 39.14N 29.09E 9 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=12.4.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=161.0.
ISC V 29 01 08 57.9–.98 39.05N–.03 29.14E–.02 13–9 49 0-2
ISK V 29 01 08 57.1 39.02N 29.28E 8 2.8 ¶16855565
ISCJB V 29 01 08 58.6–.56 39.11N–.04 29.12E–.03 3–7 2.8
CSEM V 29 01 08 58.8–.18 39.10N 29.12E 8 2.9
DDA V 29 01 08 58.4 39.11N 29.10E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=173.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=143.0.
ISC V 29 01 31 40.4–.98 39.15N–.02 29.09E–.01 4–6 4.2b,3.3s 508 0-78
DDA V 29 01 31 39.2 39.14N 29.09E 5 4.5L,3.3s ¶602386139
MOS V 29 01 31 39.9–1.3 39.18N 29.10E 13 4.3b,3.3s
ISCJB V 29 01 31 39.5–.39 39.14N–.01 29.08E–.02 9–3 4.2b,3.4s
IDC V 29 01 31 39.4–.65 39.12N 29.10E 0 4.1b,4.1
NEIC V 29 01 31 39.5 39.12N 29.08E 11 4.6L,4.5L
ISK V 29 01 31 39.5 39.12N 29.09E 10 4.6L,4.5L
CSEM V 29 01 31 40.6–.08 39.12N 29.08E 10 4.2b,4.5L
NIC V 29 01 31 43.6–.30 39.08N 29.18E 25 4.5b,4.1L
ISC Event type fe.
DDA Event type ke.
MOS Error ellipse: s-maj=6.2km s-min=3.9km az=86.5.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.0km az=135.9.
IDC Error ellipse: s-maj=12.3km s-min=10.2km az=35.0.
NEIC Event type fe. Felt at Simav. After ISK.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=52.0.
ISC V 29 01 39 51.9–.92 39.19N–.04 29.07E–.03 9 30 0-2
ISK V 29 01 39 50.7 39.19N 29.05E 5 2.7 ¶16855568
ISCJB V 29 01 39 51.9–.63 39.18N–.05 29.07E–.06 9 2.7
CSEM V 29 01 39 51.9–.17 39.17N 29.08E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.6km az=146.1.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=144.0.
ISC V 29 01 50 14.7–.88 39.27N–.04 29.07E–.03 8 26 0-2
DDA V 29 01 50 12.8 39.16N 29.07E 5 2.4 ¶602862269
ISCJB V 29 01 50 14.8–.55 39.22N–.04 29.04E–.04 8 2.4
CSEM V 29 01 50 14.9–.13 39.22N 29.04E 10 2.6
ISK V 29 01 50 14.8 39.24N 29.01E 11 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=155.1.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=146.0.
ISC V 29 01 51 23.1–.97 39.09N–.05 29.14E–.03 9 32 0-2
DDA V 29 01 51 20.2 39.19N 29.04E 7 2.7 ¶16855580
ISCJB V 29 01 51 22.9–.71 39.07N–.06 29.13E–.04 9 2.7
ISK V 29 01 51 22.8 39.10N 29.16E 5 2.7
CSEM V 29 01 51 23.0–.16 39.04N 29.23E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.6km az=168.6.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=134.0.
ISC V 29 02 01 05.5–.85 39.08N–.03 29.10E–.02 9 46 0-2
ISCJB V 29 02 01 05.4–.42 39.07N–.03 29.09E–.04 9 ¶16855582
DDA V 29 02 01 05.3 39.08N 29.11E 7 2.4
CSEM V 29 02 01 05.4–.10 39.09N 29.08E 5 2.4
ISK V 29 02 01 05.1 39.08N 29.07E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.0km az=10.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=93.0.
ISC V 29 02 04 18.0–.83 39.09N–.03 29.14E–.02 9 57 0-2
DDA V 29 02 04 17.9 39.10N 29.10E 7 2.7 ¶16855583
ISK V 29 02 04 17.9 39.11N 29.10E 5 2.8
ISCJB V 29 02 04 18.2–.39 39.09N–.03 29.09E–.03 9 2.8
CSEM V 29 02 04 18.3–.09 39.10N 29.10E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=104.0.
ISC V 29 02 06 15.6–.85 39.11N–.03 29.10E–.02 9 49 0-2
DDA V 29 02 06 14.8 39.13N 29.09E 7 2.6 ¶16855584
ISCJB V 29 02 06 15.3–.46 39.07N–.04 29.10E–.04 9 2.6
ISK V 29 02 06 15.0 39.08N 29.12E 5 2.7
CSEM V 29 02 06 15.2–.11 39.10N 29.11E 2 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=172.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=116.0.
ISC V 29 02 06 55.2–.84 39.10N–.02 29.10E–.02 9 63 0-2
ISK V 29 02 06 53.9 39.07N 29.10E 5 3.1 ¶16855587
ISCJB V 29 02 06 55.3–.38 39.07N–.03 29.09E–.03 9 3.1
DDA V 29 02 06 55.1 39.10N 29.10E 7 3.0
CSEM V 29 02 06 55.2–.11 39.10N 29.09E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=121.0.
ISC V 29 02 09 01.2–.94 39.12N–.03 29.09E–.03 9 32 0-2
ISK V 29 02 08 59.9 39.12N 29.14E 5 2.7 ¶16855588
ISCJB V 29 02 09 01.0–.49 39.10N–.03 29.09E–.04 9 2.7
DDA V 29 02 09 00.7 39.10N 29.08E 7 2.3
CSEM V 29 02 09 00.9–.10 39.12N 29.08E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=153.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=101.0.
ISC V 29 02 12 15.1–.91 38.51N–.02 33.83E–.02 12–7 53 0-2
DDA V 29 02 12 14.7 38.50N 33.84E 7 2.7 ¶16855589
ISK V 29 02 12 14.9 38.50N 33.78E 8 2.9
CSEM V 29 02 12 15.0–.14 38.49N 33.80E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=39.0.
ISC V 29 02 13 39.9–1.0 38.47N–.03 33.85E–.03 10–8 38 0-2
ISK V 29 02 13 38.9 38.49N 33.88E 6 2.8 ¶16855590
ISCJB V 29 02 13 39.2–.69 38.45N–.04 33.85E–.05 3–8 2.8
CSEM V 29 02 13 39.5–.16 38.47N 33.86E 8 2.7
DDA V 29 02 13 39.4 38.45N 33.80E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.7km az=142.2.

CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=31.0.
ISC V 29 02 17 53.2–1.1 38.49N–.02 33.85E–.03 5–10 55 0-3
CSEM V 29 02 17 53.4–.15 38.48N 33.82E 2 2.9 ¶16855591
DDA V 29 02 17 53.3 38.48N 33.86E 7 2.9
ISK V 29 02 17 53.3 38.50N 33.79E 8 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=13.0.
ISK V 29 02 18 44.1 39.02N 29.20E 10 2.6
CSEM V 29 02 18 44.1 39.02N 29.20E 10 2.6 ¶16855592
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISK V 29 02 19 39.9 38.53N 33.72E 6 2.8
CSEM V 29 02 19 39.9 38.53N 33.72E 6 2.8 ¶16855593
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 29 02 27 49.3–.85 39.09N–.03 28.99E–.02 9 63 0-2
DDA V 29 02 27 48.8 39.09N 28.99E 7 3.0 ¶16855599
ISK V 29 02 27 48.7 39.08N 28.97E 4 2.9
ISCJB V 29 02 27 49.3–.41 39.08N–.03 28.98E–.04 9 2.9
CSEM V 29 02 27 49.2–.08 39.09N 28.99E 2 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=14.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=18.0.
ISC V 29 02 28 06.2–.98 38.48N–.03 33.90E–.03 10–8 48 0-2
ISK V 29 02 28 05.8 38.48N 33.87E 5 3.0 ¶16855600
ISCJB V 29 02 28 06.1–.71 38.47N–.03 33.86E–.04 1–7 3.0
CSEM V 29 02 28 06.5–.15 38.48N 33.86E 5 2.9
DDA V 29 02 28 06.6 38.50N 33.85E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=40.5.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=51.0.
ISC V 29 02 43 08.9–.92 39.13N–.03 29.10E–.02 9 40 0-2
ISCJB V 29 02 43 08.7–.46 39.11N–.04 29.10E–.04 9 ¶16855601
DDA V 29 02 43 08.4 39.11N 29.09E 7 2.6L
CSEM V 29 02 43 08.7–.10 39.13N 29.10E 5 2.6L
ISK V 29 02 43 08.3 39.13N 29.11E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=155.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=125.0.
ISC V 29 02 45 48.5–.93 39.07N–.03 29.07E–.03 9 30 0-2
ISK V 29 02 45 47.6 39.03N 29.17E 9 2.6 ¶16855603
ISCJB V 29 02 45 48.5–.57 39.07N–.05 29.07E–.04 9 2.6
DDA V 29 02 45 48.2 39.07N 29.06E 7 2.5
CSEM V 29 02 45 48.5–.15 39.08N 29.07E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.4km az=160.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=125.0.
ISC V 29 02 47 43.2–.97 39.11N–.04 29.09E–.03 9 26 0-2
DDA V 29 02 47 42.9 39.12N 29.08E 7 2.3 ¶16855604
ISK V 29 02 47 42.3 39.10N 29.13E 5 2.7
ISCJB V 29 02 47 43.1–.64 39.10N–.05 29.10E–.05 9 2.7
CSEM V 29 02 47 43.0–.12 39.10N 29.10E 7–1 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.5km az=158.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.4km az=149.0.
ISC V 29 02 52 57.8–.86 39.07N–.03 29.15E–.03 9 38 0-2
DDA V 29 02 52 57.2 39.19N 29.07E 7 2.5 ¶16855606
ISK V 29 02 52 57.7 39.10N 29.16E 5 2.8
ISCJB V 29 02 52 58.2–.47 39.09N–.04 29.11E–.04 9 2.8
CSEM V 29 02 52 58.2–.15 39.11N 29.12E 5 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=156.6.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=127.0.
ISC V 29 02 57 22.3–1.0 38.48N–.03 33.76E–.03 9–8 44 0-2
ISCJB V 29 02 57 21.6–.67 38.45N–.03 33.79E–.04 0–7 ¶16855607
DDA V 29 02 57 22.2 38.49N 33.84E 7 2.8
CSEM V 29 02 57 22.4–.21 38.47N 33.70E 5 2.8
ISK V 29 02 57 22.3 38.48N 33.67E 13 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.0km az=149.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=115.0.
ISC V 29 03 04 32.6–1.1 38.83N–.03 31.73E–.04 8–11 30 0-1
ISK V 29 03 04 31.8 38.80N 31.75E 5 2.6 ¶16855610
CSEM V 29 03 04 32.9–.11 38.83N 31.77E 2 2.6
DDA V 29 03 04 32.3 38.87N 31.79E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=46.0.
ISC V 29 03 16 51.5–1.2 40.12N–.03 29.26E–.02 19–2 40 0-1
DDA V 29 03 16 50.5 40.09N 29.25E 7 2.7 ¶16855612
ISCJB V 29 03 16 51.3–.57 40.13N–.05 29.28E–.04 8–6 2.7
ISK V 29 03 16 51.3 40.12N 29.26E 10 2.6
CSEM V 29 03 16 51.6–.10 40.12N 29.27E 12 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.0km az=14.8.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=3.0.
ISC V 29 03 53 50.4–.91 39.10N–.03 29.06E–.02 13–8 40 0-2
ISCJB V 29 03 53 50.3–.52 39.11N–.04 29.05E–.04 7–6 ¶16855615
CSEM V 29 03 53 50.4–.12 39.12N 29.06E 8 2.6
ISK V 29 03 53 50.0 39.12N 29.06E 11 2.7
DDA V 29 03 53 50.4 39.09N 29.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=7.4.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=141.0.
ISC V 29 03 57 49.7–.87 39.12N–.03 29.03E–.02 9 52 0-2
ISCJB V 29 03 57 49.5–.42 39.09N–.04 29.02E–.03 9 ¶16855616
CSEM V 29 03 57 49.4–.09 39.12N 29.04E 2 2.9
ISK V 29 03 57 49.1 39.12N 29.02E 5 2.9
DDA V 29 03 57 49.4 39.11N 29.03E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=0.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=2.0km az=171.0.
ISC V 29 04 10 45.7–.88 39.15N–.04 29.01E–.03 9 26 0-2
ISCJB V 29 04 10 45.8–.53 39.13N–.04 29.00E–.04 9 ¶16855617
CSEM V 29 04 10 45.8–.14 39.12N 28.98E 12 2.6
ISK V 29 04 10 45.4 39.15N 28.96E 9 2.7
DDA V 29 04 10 46.3 39.07N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=167.9.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=31.0.
ISC V 29 04 27 32.3–.91 39.11N–.03 29.18E–.03 9 38 0-2
ISK V 29 04 27 31.9 39.11N 29.29E 8 2.7 ¶16855618
DDA V 29 04 27 31.5 39.10N 29.15E 7 2.6
ISCJB V 29 04 27 32.1–.47 39.09N–.03 29.18E–.04 9 2.6
CSEM V 29 04 27 32.1–.16 39.10N 29.21E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.5km az=16.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=80.0.
ISC V 29 04 37 29.3–.95 39.11N–.03 29.16E–.03 11–10 30 0-2
DDA V 29 04 37 29.0 39.09N 29.14E 7 2.1L ¶16855619
CSEM V 29 04 37 29.5–.17 39.13N 29.17E 2 2.6
ISK V 29 04 37 31.7 39.31N 29.26E 5 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=95.0.
ISC V 29 05 03 15.0–1.1 39.07N–.03 29.07E–.03 4–12 34 0-2
DDA V 29 05 03 14.2 39.10N 29.04E 7 2.6L ¶16855620
ISK V 29 05 03 14.4 39.05N 29.17E 5 2.7
CSEM V 29 05 03 14.8–.15 39.07N 29.07E 2 2.6L

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=111.0.
ISC V 29 05 08 25.7–1.1 38.48N–.02 33.78E–.02 1–11 79 0-3
CSEM V 29 05 08 25.4–.20 38.47N 33.77E 0–1 3.2L ¶16855621
ISK V 29 05 08 25.5 38.47N 33.75E 8 3.2
DDA V 29 05 08 25.5 38.50N 33.86E 7 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=75.0.
ISC V 29 05 08 47.6–.87 39.10N–.03 28.99E–.03 9 32 0-1
ISCJB V 29 05 08 47.5–.50 39.10N–.03 28.99E–.04 9 ¶16855622
CSEM V 29 05 08 47.5–.16 39.11N 28.99E 2 2.4L
ISK V 29 05 08 47.2 39.09N 29.08E 8 2.6
DDA V 29 05 08 47.6 39.09N 28.96E 7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=142.2.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.1km az=86.0.
ISC V 29 05 25 06.8–.84 39.02N–.02 41.11E–.02 16–6 59 0-9
IASPE V 29 05 25 06.9–.87 39.03N–.02 41.09E–.03 15–6 ¶16855624
CSEM V 29 05 25 06.9–.14 39.02N 41.11E 5 3.3L
ISK V 29 05 25 06.6 39.02N 41.10E 5 2.9
DDA V 29 05 25 06.6 39.03N 41.11E 18 3.3L
ISCJB V 29 05 25 07.4–.44 39.03N–.02 41.09E–.03 8–4 3.3L
ISC Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bond¨¡r and McLaughlin (2009) selection criteria. Bond¨¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 29 05 48 49.7–.97 39.09N–.02 29.06E–.02 9–9 46 0-2
ISCJB V 29 05 48 49.5–.47 39.10N–.03 29.05E–.04 4–7 ¶16855626
CSEM V 29 05 48 49.7–.11 39.10N 29.05E 5 2.6L
ISK V 29 05 48 49.0 39.08N 29.08E 6 2.6
DDA V 29 05 48 49.6 39.08N 29.05E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=109.0.
ISC V 29 05 49 59.9–.85 39.11N–.03 29.07E–.03 9 35 0-2
ISCJB V 29 05 49 60.0–.47 39.13N–.03 29.03E–.04 9 ¶16855627
ISK V 29 05 49 59.5 39.12N 29.09E 5 2.3L
DDA V 29 05 49 59.6 39.12N 29.01E 7 2.6L
CSEM V 29 05 50 00.1–.10 39.13N 29.05E 5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=150.4.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=123.0.
ISC V 29 05 51 44.3–1.1 39.11N–.02 29.09E–.03 19–2 50 0-2
CSEM V 29 05 51 44.6–.06 39.11N 29.08E 6–0 2.7L ¶16855628
ISK V 29 05 51 44.0 39.10N 29.08E 6 2.3L
DDA V 29 05 51 44.3 39.12N 29.08E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=137.0.
ISC V 29 06 11 35.8–1.0 39.12N–.03 29.02E–.02 7–10 48 0-2
ISCJB V 29 06 11 35.3–.53 39.12N–.04 29.00E–.03 1–8 ¶16855630
CSEM V 29 06 11 35.6–.06 39.12N 29.00E 5 2.6L
ISK V 29 06 11 35.1 39.11N 29.03E 6 2.3L
DDA V 29 06 11 35.3 39.14N 29.01E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=170.6.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=104.0.
ISC V 29 07 03 46.8–.93 39.12N–.02 29.11E–.02 10–9 76 0-2
ISCJB V 29 07 03 46.3–.49 39.13N–.02 29.10E–.03 2–5 ¶16855633
DDA V 29 07 03 46.2 39.14N 29.10E 7 3.1L
ISK V 29 07 03 46.1 39.11N 29.11E 8 2.9L
CSEM V 29 07 03 46.7–.09 39.13N 29.11E 5 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.1km az=34.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=113.0.
ISC V 29 07 32 57.7–.89 37.26N–.03 28.20E–.03 12–6 39 0-2
CSEM V 29 07 32 57.9–.21 37.26N 28.21E 10 2.2L ¶16855635
ISCJB V 29 07 32 58.2–.44 37.23N–.03 28.18E–.03 11–5 2.2L
ISK V 29 07 32 58.1 37.21N 28.19E 13 2.2L
DDA V 29 07 32 58.2 37.24N 28.18E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=29.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.0km az=37.2.
ISC V 29 07 49 17.4–.93 39.08N–.03 29.05E–.03 11–10 30 0-1
ISK V 29 07 49 16.7 39.06N 29.09E 6 1.8L ¶16855636
ISCJB V 29 07 49 17.2–.53 39.08N–.03 29.05E–.04 5–10 1.8L
CSEM V 29 07 49 17.4–.12 39.08N 29.05E 5 2.7L
DDA V 29 07 49 17.1 39.07N 29.04E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.9km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=100.0.
ISC V 29 08 19 36.9–1.1 39.14N–.03 28.99E–.04 16–11 28 0-1
ISK V 29 08 19 36.6 39.15N 28.94E 8 2.0L ¶16855639
ISCJB V 29 08 19 37.4–.55 39.12N–.04 29.00E–.05 12–5 2.0L
CSEM V 29 08 19 37.2–.13 39.13N 28.98E 10 2.7L
DDA V 29 08 19 37.2 39.13N 29.03E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=135.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=109.0.
ISC V 29 08 24 36.5–.94 39.11N–.02 29.03E–.02 10–10 46 0-2
ISK V 29 08 24 35.7 39.09N 29.03E 5 2.6L ¶602862277
DDA V 29 08 24 36.2 39.10N 29.04E 7 2.9L
CSEM V 29 08 24 36.3–.10 39.10N 29.02E 5 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=93.0.
ISC V 29 08 32 10.5–.90 39.12N–.02 29.02E–.02 12–8 72 0-2
DDA V 29 08 32 09.9 39.11N 29.00E 7 3.0L ¶16855641
ISCJB V 29 08 32 10.4–.48 39.12N–.02 29.02E–.03 3–5 3.0L
CSEM V 29 08 32 10.8–.07 39.11N 29.02E 5 3.0L
ISK V 29 08 32 10.3 39.12N 29.03E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=26.2.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=95.0.
ISC V 29 08 34 52.5–.90 39.11N–.02 29.01E–.02 17–8 50 0-2
CSEM V 29 08 34 52.8–.07 39.12N 28.99E 5 2.8L ¶16855642
ISK V 29 08 34 52.1 39.11N 29.01E 6 2.6
DDA V 29 08 34 52.6 39.10N 29.02E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=105.0.
ISC V 29 08 53 27.4–.94 39.12N–.03 29.00E–.03 12–10 34 0-1
ISK V 29 08 53 26.8 39.11N 28.97E 9 2.0L ¶16855644
ISCJB V 29 08 53 27.2–.54 39.11N–.03 29.00E–.04 8–6 2.0L
CSEM V 29 08 53 27.3–.13 39.12N 28.98E 8 2.7L
DDA V 29 08 53 27.3 39.09N 29.02E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.4km az=21.8.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=92.0.
ISC V 29 09 02 51.9–.92 38.37N–.02 28.09E–.03 17–9 38 0-1
ISCJB V 29 09 02 51.9–.55 38.37N–.03 28.08E–.04 10–5 ¶16855646
ISK V 29 09 02 51.3 38.37N 28.09E 13 2.1L
CSEM V 29 09 02 52.0–.08 38.36N 28.09E 12 2.7L
DDA V 29 09 02 52.6 38.43N 28.14E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=24.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=114.0.
ISC V 29 09 04 04.8–1.0 39.12N–.03 29.10E–.03 19–3 34 0-1
ISK V 29 09 04 04.4 39.10N 29.10E 5 1.9L ¶16855647
ISCJB V 29 09 04 05.1–.52 39.10N–.03 29.09E–.04 9–5 1.9L
CSEM V 29 09 04 05.1–.12 39.11N 29.09E 8–1 2.6L
DDA V 29 09 04 05.2 39.09N 29.10E 7 2.6L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=42.8.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=127.0.
ISC V 29 09 11 19.9–.96 39.10N–.03 29.04E–.03 10–11 28 0-1
ISCJB V 29 09 11 19.7–.60 39.09N–.04 29.04E–.04 8–13 ¶16855649
CSEM V 29 09 11 19.8–.24 39.13N 29.01E 5 2.6L
ISK V 29 09 11 19.0 39.06N 29.11E 10 1.7L
DDA V 29 09 11 19.5 39.08N 29.05E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.4km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=124.0.
ISC V 29 09 20 11.9–.88 39.10N–.02 29.03E–.02 14–7 44 0-1
ISCJB V 29 09 20 11.7–.46 39.11N–.03 29.03E–.04 4–7 ¶16855650
CSEM V 29 09 20 11.9–.11 39.11N 29.04E 8 2.6L
ISK V 29 09 20 11.4 39.10N 29.03E 9 2.1L
DDA V 29 09 20 12.1 39.07N 29.04E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=143.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=119.0.
ISC V 29 09 43 36.7–1.1 39.07N–.03 29.02E–.03 14–10 44 0-2
ISK V 29 09 43 36.4 39.07N 29.07E 9 2.3L ¶16855651
ISCJB V 29 09 43 37.2–.47 39.10N–.03 29.02E–.04 7–6 2.3L
CSEM V 29 09 43 37.3–.13 39.09N 29.02E 10 2.7L
DDA V 29 09 43 37.3 39.14N 29.02E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.0km az=39.5.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=109.0.
ISC V 29 10 31 42.1–.93 39.09N–.02 29.01E–.02 14–8 46 0-2
ISCJB V 29 10 31 42.4–.57 39.10N–.03 29.02E–.03 4–7 ¶16855653
CSEM V 29 10 31 42.6–.13 39.10N 29.00E 8 2.7L
ISK V 29 10 31 42.4 39.07N 28.90E 16 2.2L
DDA V 29 10 31 42.0 39.14N 29.02E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.1km az=158.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=116.0.
ISC V 29 11 02 06.3–.62 37.32N–.02 42.60E–.02 10–3 4.4b,3.4s 574 0-96
IDC V 29 11 02 04.1–.72 37.21N 42.49E 0 4.3,4.3 ¶16551494
NSSC V 29 11 02 04.8–1.8 37.50N 42.50E 0–17 4.4L,2.4
ISCJB V 29 11 02 05.0–.57 37.26N–.02 42.68E–.02 13–3 4.3b,3.5s
NEIC V 29 11 02 05.5 37.41N 42.58E 11 4.6L,4.5b
AZER V 29 11 02 05.1–.37 37.35N 42.49E 24–15 4.6L,4.5b
MOS V 29 11 02 05.4–1.2 37.28N 42.57E 12 4.5b,4.5b
ISK V 29 11 02 05.5 37.41N 42.57E 11 4.6L,4.5b
CSEM V 29 11 02 06.3–.12 37.36N 42.66E 10 4.5b,4.5b
TEH V 29 11 02 11.2 37.31N 42.75E 20 4.6L,4.5b
ISN V 29 11 02 18.4–1.2 36.79N 42.97E 0–3 4.5L,4.5b
DDA V 29 11 02 29.6 37.22N 42.56E 11 4.6L,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=14.9km s-min=10.4km az=5.0.
NSSC Error ellipse: s-maj=17.2km s-min=26.3km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.1km az=162.4.
NEIC Event type fe. Felt at Sirnak, Turkey. After ISK.
AZER Error ellipse: s-maj=12.3km s-min=2.3km az=52.0.
MOS Error ellipse: s-maj=6.3km s-min=4.0km az=98.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=166.0.
ISN Error ellipse: s-maj=6.0km s-min=6.4km az=-1.0.
DDA Event type ke.
DDA V 29 11 04 07.7 39.11N 29.10E 7 2.6L
CSEM V 29 11 04 07.7 39.11N 29.10E 7 2.6L ¶601585893
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 29 11 18 56.7–.95 39.10N–.04 29.05E–.03 16–9 27 0-1
CSEM V 29 11 18 56.8–.13 39.11N 29.03E 8 2.7L ¶16855655
ISK V 29 11 18 56.0 39.02N 29.18E 5 2.2
DDA V 29 11 18 56.9 39.08N 29.05E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.1km az=130.0.
ISC V 29 11 21 09.4–.92 39.05N–.03 29.05E–.03 12–9 28 0-2
ISK V 29 11 21 07.1 38.93N 29.37E 5 2.1 ¶16855656
CSEM V 29 11 21 09.3–.29 39.08N 29.06E 2 2.6L
DDA V 29 11 21 09.4 39.06N 29.02E 7 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=5.4km az=127.0.
ISC V 29 11 21 30.0–1.1 39.18N–.03 28.91E–.04 14–12 31 0-1
ISK V 29 11 21 29.2 39.18N 28.87E 11 2.5L ¶16855659
ISCJB V 29 11 21 30.6–.51 39.17N–.05 28.93E–.06 20–9 2.5L
CSEM V 29 11 21 30.2–.13 39.18N 28.91E 15 2.7L
DDA V 29 11 21 31.5 39.09N 28.98E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.4km az=139.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.8km az=108.0.
ISC V 29 11 31 21.9–.94 39.08N–.03 29.06E–.03 16–8 36 0-1
ISK V 29 11 31 21.5 39.08N 29.06E 6 2.4L ¶16855660
ISCJB V 29 11 31 22.1–.49 39.10N–.03 29.04E–.04 5–7 2.4L
DDA V 29 11 31 22.3 39.09N 29.04E 7 2.6L
CSEM V 29 11 31 22.2–.08 39.10N 29.04E 5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.7km az=141.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=88.0.
ISC V 29 12 02 01.8–.97 38.54N–.02 39.48E–.03 13–8 31 0-2
ISK V 29 12 02 00.9 38.56N 39.26E 27 2.8 ¶16855662
DDA V 29 12 02 01.5 38.54N 39.53E 7 2.8L
CSEM V 29 12 02 02.0–.29 38.52N 39.54E 2 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.3km az=64.0.
ISC V 29 12 04 04.9–.92 39.08N–.02 29.11E–.02 12–9 46 0-2
ISCJB V 29 12 04 04.6–.51 39.08N–.03 29.10E–.04 4–8 ¶16855663
CSEM V 29 12 04 04.7–.08 39.09N 29.11E 5 2.6L
ISK V 29 12 04 04.2 39.07N 29.12E 5 2.4,2.3L
DDA V 29 12 04 04.6 39.12N 29.11E 7 2.6L,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=176.6.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=105.0.
ISC V 29 12 10 52.1–.91 39.10N–.02 29.06E–.02 15–9 52 0-2
ISK V 29 12 10 51.8 39.10N 29.06E 5 2.5L ¶16855664
CSEM V 29 12 10 52.5–.09 39.11N 29.05E 5 2.8L
DDA V 29 12 10 52.1 39.08N 29.06E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=112.0.
ISC V 29 12 13 37.7–.85 39.12N–.03 28.98E–.02 9 36 0-1
ISCJB V 29 12 13 37.6–.45 39.13N–.03 28.97E–.04 9 ¶16855665
CSEM V 29 12 13 37.8–.08 39.12N 28.97E 10 2.7L
ISK V 29 12 13 37.3 39.11N 28.98E 12 2.6L
DDA V 29 12 13 37.7 39.14N 28.98E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.2km az=37.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=86.0.
ISC V 29 12 20 03.1–.97 39.11N–.03 29.02E–.03 14–11 30 0-2
ISK V 29 12 20 02.8 39.11N 29.03E 6 2.1L ¶16855666
ISCJB V 29 12 20 03.5–.55 39.10N–.04 29.05E–.04 7–10 2.1L
CSEM V 29 12 20 03.6–.13 39.12N 29.03E 6–2 2.6L
DDA V 29 12 20 03.5 39.08N 29.06E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.7km az=150.9.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=141.0.
ISC V 29 12 25 05.4–.97 39.09N–.02 29.06E–.02 8–10 44 0-2
ISK V 29 12 25 04.6 39.08N 29.10E 5 2.4L ¶16855667
ISCJB V 29 12 25 05.1–.52 39.10N–.03 29.05E–.04 3–8 2.4L
CSEM V 29 12 25 05.4–.10 39.10N 29.05E 5 2.7L
DDA V 29 12 25 05.3 39.08N 29.05E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=150.1.

CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=104.0.
ISC V 29 12 28 16.1–1.0 39.11N–.03 29.05E–.03 18–3 46 0-2
ISCJB V 29 12 28 16.4–.48 39.10N–.03 29.04E–.03 7–5 ¶16855668
CSEM V 29 12 28 16.6–.08 39.11N 29.04E 5 2.7L
DDA V 29 12 28 16.2 39.12N 29.06E 7 2.7L
ISK V 29 12 28 16.0 39.08N 29.07E 7 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=139.8.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=132.0.
ISC V 29 12 35 20.8–.95 39.14N–.03 29.03E–.03 9–11 38 0-1
ISCJB V 29 12 35 20.6–.47 39.14N–.03 29.02E–.04 7–6 ¶602862283
CSEM V 29 12 35 20.7–.09 39.14N 29.04E 8 2.8L
ISK V 29 12 35 20.3 39.13N 29.04E 10 2.4L
DDA V 29 12 35 20.2 39.13N 29.02E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=139.1.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=94.0.
ISC V 29 12 36 36.7–.99 39.15N–.03 29.04E–.03 12–12 34 0-2
ISK V 29 12 36 36.2 39.16N 28.98E 5 2.1L ¶16855670
ISCJB V 29 12 36 37.2–.51 39.13N–.03 29.07E–.04 12–5 2.1L
CSEM V 29 12 36 37.0–.21 39.16N 29.04E 5 2.8L
DDA V 29 12 36 37.2 39.15N 29.09E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.8km az=39.7.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=102.0.
ISC V 29 13 08 36.6–.96 39.11N–.02 29.01E–.02 9–9 51 0-2
CSEM V 29 13 08 36.8–.08 39.10N 29.02E 5 2.7L ¶16855671
ISK V 29 13 08 36.5 39.08N 28.99E 10 2.8L
DDA V 29 13 08 36.0 39.12N 29.02E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=99.0.
ISC V 29 13 46 39.3–1.2 37.30N–.03 28.20E–.03 4–11 30 0-1
DDA V 29 13 46 38.7 37.17N 28.16E 7 2.5L ¶16855672
ISK V 29 13 46 38.3 37.32N 28.24E 4 2.1L
ISCJB V 29 13 46 39.8–.56 37.24N–.04 28.17E–.05 9–9 2.1L
CSEM V 29 13 46 39.7–.25 37.25N 28.19E 5 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.8km az=33.2.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=31.0.
ISC V 29 13 51 16.3–1.1 39.10N–.03 29.04E–.02 5–10 53 0-113
ISCJB V 29 13 51 16.0–.49 39.08N–.03 29.05E–.03 6–6 ¶16855673
ISK V 29 13 51 15.8 39.06N 29.05E 11 2.8L
DDA V 29 13 51 15.8 39.10N 29.05E 10 3.0L
CSEM V 29 13 51 16.2–.08 39.07N 29.05E 8 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=2.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=106.0.
ISC V 29 14 30 12.6–1.0 37.38N–.04 42.56E–.02 9–7 66 0-4
ISN V 29 14 30 11.4–.88 37.38N 42.72E 0–3 3.7L ¶16596626
DDA V 29 14 30 11.8 37.33N 42.58E 9 3.7L
CSEM V 29 14 30 12.9–.19 37.37N 42.56E 8 3.6L
ISK V 29 14 30 12.4 37.41N 42.57E 13 3.6L
TEH V 29 14 30 18.5 37.26N 42.82E 20 3.4L
ISC Event type ke.
ISN Error ellipse: s-maj=5.2km s-min=5.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=34.0.
ISK V 29 14 59 57.5 39.62N 39.66E 5 2.3 ¶16855677
ISC V 29 15 00 56.8–.94 40.88N–.03 33.95E–.03 15–8 39 0-2
ISK V 29 15 00 55.8 40.88N 34.01E 16 2.8 ¶16855678
ISCJB V 29 15 00 56.3–.60 40.86N–.04 34.03E–.05 7–9 2.8
DDA V 29 15 00 56.8 40.89N 33.93E 10 2.8L
CSEM V 29 15 00 56.3–.28 40.87N 34.01E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.7km az=40.2.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.9km az=118.0.
ISC V 29 15 01 13.3–1.1 39.11N–.05 29.04E–.04 18–5 22 0-1
ISK V 29 15 01 12.7 39.13N 29.00E 7 2.1 ¶16855679
ISCJB V 29 15 01 13.5–.64 39.10N–.05 29.05E–.05 12–7 2.1
CSEM V 29 15 01 13.5–.03 39.11N 29.04E 10 2.7L
DDA V 29 15 01 13.7 39.09N 29.05E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.8km az=142.3.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=132.0.
ISC V 29 15 03 47.7–1.0 39.17N–.03 29.13E–.03 18–5 28 0-1
ISK V 29 15 03 47.2 39.11N 29.22E 10 2.7 ¶16855680
ISCJB V 29 15 03 48.1–.58 39.16N–.04 29.11E–.04 9–6 2.7
CSEM V 29 15 03 48.1–.13 39.16N 29.12E 8 2.6L
DDA V 29 15 03 48.5 39.12N 29.12E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=140.6.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=119.0.
ISC V 29 15 45 05.7–.92 39.13N–.02 29.03E–.03 14–9 46 0-1
ISCJB V 29 15 45 05.9–.46 39.14N–.03 29.01E–.03 6–5 ¶16855682
ISK V 29 15 45 05.5 39.15N 29.01E 8 2.7
DDA V 29 15 45 06.1 39.11N 29.00E 7 2.8L
CSEM V 29 15 45 06.1–.07 39.13N 29.01E 10 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=163.4.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=147.0.
ISC V 29 15 47 09.8–1.0 39.12N–.03 29.02E–.03 7–10 34 0-1
ISCJB V 29 15 47 09.5–.56 39.11N–.04 29.02E–.04 4–9 ¶16855683
DDA V 29 15 47 09.4 39.10N 29.02E 7 2.6L
ISK V 29 15 47 09.3 39.10N 29.09E 9 2.6
CSEM V 29 15 47 09.5–.15 39.12N 29.02E 5 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=152.6.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=120.0.
ISC V 29 15 54 11.5–1.3 39.13N–.03 29.12E–.03 17–11 30 0-1
ISK V 29 15 54 11.1 39.11N 29.13E 9 2.7 ¶16855684
ISCJB V 29 15 54 12.1–.56 39.14N–.03 29.10E–.04 10–5 2.7
CSEM V 29 15 54 12.0–.12 39.13N 29.10E 10 2.6L
DDA V 29 15 54 12.3 39.11N 29.10E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=136.6.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=114.0.
ISC V 29 16 04 03.7–.91 37.35N–.03 35.41E–.02 10–7 50 0-2
ISK V 29 16 04 02.8 37.33N 35.39E 5 2.9 ¶16855685
ISCJB V 29 16 04 03.8–.51 37.33N–.03 35.41E–.03 3–5 2.9
CSEM V 29 16 04 03.8–.21 37.33N 35.43E 5 2.9
DDA V 29 16 04 03.2 37.34N 35.42E 14 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=172.9.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.7km az=33.0.
DDA Event type ke.
ISC V 29 16 32 25.1–1.0 39.06N–.03 29.03E–.03 7–11 40 0-2
ISCJB V 29 16 32 24.9–.51 39.05N–.03 29.02E–.04 6–7 ¶16855688
DDA V 29 16 32 24.6 39.08N 29.02E 7 2.4
CSEM V 29 16 32 25.1–.10 39.06N 29.02E 5 2.4
ISK V 29 16 32 25.0 39.03N 29.01E 15 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.2km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=95.0.
ISC V 29 16 33 52.7–1.0 39.13N–.03 29.11E–.02 5–10 58 0-2
DDA V 29 16 33 51.9 39.11N 29.13E 7 2.6 ¶16855689
ISCJB V 29 16 33 52.3–.53 39.12N–.04 29.12E–.04 2–6 2.6
CSEM V 29 16 33 52.7–.09 39.11N 29.13E 5 2.6
ISK V 29 16 33 52.5 39.13N 29.15E 6 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.7km az=150.3.

CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=141.0.
ISC V 29 16 35 44.5–.95 39.10N–.03 29.04E–.02 10–10 44 0-2
ISK V 29 16 35 43.9 39.10N 29.05E 7 2.8 ¶16855690
ISCJB V 29 16 35 44.2–.48 39.10N–.04 29.03E–.04 5–8 2.8
CSEM V 29 16 35 44.4–.07 39.11N 29.04E 5 2.6
DDA V 29 16 35 44.2 39.10N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=11.7.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=80.0.
ISK V 29 17 01 30.9 37.36N 42.47E 7 2.9
CSEM V 29 17 01 30.9 37.36N 42.47E 7 2.9 ¶16855692
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 29 17 49 36.7–.90 39.08N–.02 29.04E–.02 14–7 50 0-2
CSEM V 29 17 49 36.9–.08 39.08N 29.05E 5 2.8 ¶16855696
ISK V 29 17 49 36.6 39.09N 29.04E 6 2.9
DDA V 29 17 49 36.5 39.12N 29.04E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=19.0.
ISC V 29 18 12 38.9–.93 39.12N–.02 29.12E–.02 11–8 62 0-2
ISCJB V 29 18 12 38.9–.53 39.12N–.03 29.11E–.03 3–6 ¶16855698
DDA V 29 18 12 38.6 39.12N 29.11E 7 3.0L
CSEM V 29 18 12 39.3–.12 39.12N 29.11E 5 3.0L
ISK V 29 18 12 39.4 39.16N 29.13E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.6km az=164.4.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=162.0.
ISC V 29 18 29 30.0–.90 39.11N–.03 29.06E–.02 9 33 0-2
ISCJB V 29 18 29 29.8–.50 39.11N–.03 29.06E–.04 9 ¶16855699
CSEM V 29 18 29 29.9–.14 39.12N 29.07E 5 2.6L
DDA V 29 18 29 29.7 39.07N 29.06E 7 2.6L
ISK V 29 18 29 30.1 39.15N 29.10E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=163.3.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=74.0.
ISC V 29 18 51 43.7–.87 39.07N–.04 29.03E–.03 9 30 0-2
ISCJB V 29 18 51 43.8–.52 39.09N–.04 29.03E–.04 9 ¶16855701
CSEM V 29 18 51 43.8–.13 39.11N 29.03E 5 2.3L
ISK V 29 18 51 43.5 39.07N 29.12E 10 2.7
DDA V 29 18 51 43.5 39.07N 29.01E 7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.5km az=150.5.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=105.0.
ISC V 29 19 13 31.9–.91 39.12N–.03 29.12E–.02 13–8 40 0-2
ISCJB V 29 19 13 31.8–.55 39.11N–.03 29.11E–.04 7–5 ¶16855705
CSEM V 29 19 13 31.9–.10 39.12N 29.12E 8 2.6L
ISK V 29 19 13 31.5 39.13N 29.13E 8 2.7
DDA V 29 19 13 31.7 39.11N 29.11E 9 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=139.0.
ISC V 29 19 36 15.8–1.1 39.11N–.03 29.06E–.03 2–14 36 0-2
CSEM V 29 19 36 15.6–.08 39.10N 29.06E 2 2.6L ¶16855709
ISK V 29 19 36 15.3 39.08N 29.13E 6 2.7
DDA V 29 19 36 15.0 39.11N 29.06E 7 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=108.0.
ISC V 29 19 46 12.1–.92 39.10N–.02 29.02E–.02 10–7 155 0-8
ISCJB V 29 19 46 11.8–.41 39.10N–.02 29.00E–.02 11–3 ¶16855710
DDA V 29 19 46 11.5 39.11N 29.04E 7 3.7L
ISK V 29 19 46 11.4 39.12N 29.03E 7 3.7L
CSEM V 29 19 46 12.2–.08 39.10N 29.03E 10 3.7L
THE V 29 19 46 14.6 39.04N 28.91E 12–2 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=162.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=98.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=115.0.
ISC V 29 19 59 18.5–.85 39.12N–.03 29.03E–.02 9 74 0-2
ISK V 29 19 59 17.8 39.12N 29.04E 5 3.0 ¶16855712
ISCJB V 29 19 59 18.4–.40 39.11N–.03 29.03E–.03 9 3.0
DDA V 29 19 59 18.7 39.07N 29.00E 7 3.0L
CSEM V 29 19 59 18.1–.10 39.11N 29.04E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=150.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=135.0.
ISC V 29 20 08 43.3–.88 39.13N–.03 29.10E–.05 9 26 0-2
ISCJB V 29 20 08 44.1–.54 39.11N–.03 29.06E–.05 9 ¶16855713
CSEM V 29 20 08 44.2–.16 39.12N 29.06E 8 2.8
ISK V 29 20 08 44.2 39.10N 29.15E 14 2.8
DDA V 29 20 08 44.4 38.97N 28.83E 27 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=10.7.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=94.0.
ISC V 29 20 16 31.1–.96 39.09N–.03 29.05E–.04 12–10 28 0-1
ISK V 29 20 16 30.5 39.11N 29.02E 7 2.7 ¶16855714
ISCJB V 29 20 16 31.3–.59 39.11N–.03 29.02E–.04 6–6 2.7
DDA V 29 20 16 31.4 39.07N 29.02E 7 2.3
CSEM V 29 20 16 31.4–.10 39.13N 28.99E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.9km az=139.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=104.0.
ISC V 29 20 23 56.6–.96 39.10N–.03 29.06E–.03 10–10 23 0-2
ISCJB V 29 20 23 56.4–.61 39.11N–.04 29.05E–.04 6–8 ¶16855715
CSEM V 29 20 23 56.4–.08 39.12N 29.04E 5 2.3
ISK V 29 20 23 56.0 39.11N 29.07E 8 2.5
DDA V 29 20 23 56.3 39.10N 29.04E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.4km az=157.8.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=126.0.
DDA V 29 20 38 03.8 39.08N 29.03E 7 2.1
¶602862294
ISC V 29 20 41 10.2–.97 39.10N–.03 29.11E–.03 9 24 0-2
DDA V 29 20 41 09.7 39.13N 29.10E 7 2.4 ¶16855716
ISK V 29 20 41 09.4 39.07N 29.20E 6 2.6
ISCJB V 29 20 41 10.1–.57 39.10N–.04 29.12E–.04 9 2.6
CSEM V 29 20 41 10.1–.11 39.10N 29.12E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.6km az=152.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=115.0.
ISC V 29 20 47 58.3–.93 39.10N–.02 29.06E–.02 11–8 52 0-2
DDA V 29 20 47 57.8 39.10N 29.07E 7 2.7 ¶16855717
ISCJB V 29 20 47 58.3–.55 39.11N–.04 29.06E–.03 4–6 2.7
CSEM V 29 20 47 58.5–.14 39.12N 29.07E 5 2.7
ISK V 29 20 47 58.0 39.11N 29.10E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=169.9.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=37.0.
ISC V 29 20 58 07.9–.94 39.10N–.03 29.02E–.02 10–9 44 0-2
ISCJB V 29 20 58 07.7–.53 39.09N–.04 29.02E–.04 3–8 ¶16855718
DDA V 29 20 58 07.5 39.10N 29.02E 7 2.4
ISK V 29 20 58 07.4 39.09N 29.06E 6 2.8
CSEM V 29 20 58 07.9–.09 39.10N 29.02E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=171.3.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=143.0.
ISC V 29 21 17 37.6–.94 39.10N–.03 29.03E–.03 10–9 36 0-2
DDA V 29 21 17 36.7 39.17N 29.02E 7 2.6 ¶16855721
ISCJB V 29 21 17 37.6–.56 39.11N–.04 29.03E–.04 9–6 2.6
CSEM V 29 21 17 37.6–.10 39.14N 29.04E 5 2.6
ISK V 29 21 17 37.7 39.14N 29.02E 10 2.7

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=16.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=71.0.
ISC V 29 22 39 10.9–1.1 36.89N–.04 34.98E–.03 33–3 29 0-1
DDA V 29 22 39 10.3 36.92N 34.88E 40 2.6 ¶16855724
CSEM V 29 22 39 10.9–.20 36.89N 34.98E 26–3 2.6
ISK V 29 22 39 10.6 36.86N 35.01E 24 2.5
ISCJB V 29 22 39 11.0–.65 36.89N–.05 34.97E–.05 35–11 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 29 22 42 23.5–.98 39.09N–.03 29.04E–.02 9–10 51 0-2
ISCJB V 29 22 42 23.1–.53 39.10N–.04 29.04E–.03 2–8 ¶16855725
ISK V 29 22 42 23.0 39.11N 29.04E 8 2.8
CSEM V 29 22 42 23.5–.08 39.09N 29.05E 8 2.8L
DDA V 29 22 42 23.3 39.08N 29.06E 10 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.2km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=156.0.
DDA Event type ke.
ISC V 29 22 53 23.3–.85 39.14N–.02 28.98E–.02 9 45 0-2
ISK V 29 22 53 22.8 39.14N 28.98E 6 2.8 ¶16855729
ISCJB V 29 22 53 23.2–.41 39.14N–.03 28.99E–.04 9 2.8
DDA V 29 22 53 23.6 39.11N 29.00E 7 2.6L
CSEM V 29 22 53 23.3–.07 39.14N 28.98E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=149.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=75.0.
ISC V 29 22 59 27.3–.81 39.01N–.03 29.13E–.02 9 57 0-2
DDA V 29 22 59 27.9 39.10N 29.06E 7 2.8L ¶16855730
ISK V 29 22 59 27.4 39.04N 29.17E 9 2.8
ISCJB V 29 22 59 28.1–.39 39.07N–.03 29.09E–.03 9 2.8
CSEM V 29 22 59 28.1–.13 39.06N 29.11E 8 2.8L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=158.7.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=120.0.
ISC V 29 23 48 24.6–.91 39.11N–.03 29.02E–.02 9 36 0-2
ISK V 29 23 48 23.9 39.10N 29.05E 5 2.8 ¶16855738
ISCJB V 29 23 48 24.4–.49 39.10N–.04 29.02E–.04 9 2.8
CSEM V 29 23 48 24.5–.10 39.11N 29.02E 5 2.5L
DDA V 29 23 48 24.5 39.09N 29.03E 7 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=161.2.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=84.0.
DDA Event type ke.
ISC V 29 23 49 06.5–.87 39.07N–.03 29.04E–.02 9 38 0-2
ISK V 29 23 49 05.8 39.06N 29.07E 9 2.7 ¶16855741
ISCJB V 29 23 49 06.7–.46 39.09N–.04 29.00E–.04 9 2.7
DDA V 29 23 49 06.8 39.10N 28.99E 7 2.6L
CSEM V 29 23 49 07.1–.14 39.12N 28.99E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=159.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=155.0.
ISC V 30 00 19 28.6–1.1 39.16N–.03 28.95E–.03 13–12 32 0-1
ISCJB V 30 00 19 29.0–.51 39.17N–.03 28.93E–.04 12–5 ¶16855751
ISK V 30 00 19 28.1 39.15N 28.92E 9 2.6
CSEM V 30 00 19 29.0–.13 39.17N 28.92E 12 2.6
DDA V 30 00 19 30.3 39.08N 28.99E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=85.0.
ISC V 30 00 23 12.7–.93 39.09N–.01 29.12E–.02 13–8 179 0-3
ISCJB V 30 00 23 12.3–.49 39.10N–.02 29.10E–.02 4–4 ¶16855752
DDA V 30 00 23 12.4 39.09N 29.13E 9 3.3L
CSEM V 30 00 23 12.9–.07 39.08N 29.11E 10 3.3L
ISK V 30 00 23 12.2 39.07N 29.12E 13 3.3L
THE V 30 00 23 15.9 39.02N 28.87E 9–3 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=36.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=106.0.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=1.0km az=207.0.
ISC V 30 00 24 44.2–.95 39.14N–.03 29.01E–.02 9 37 0-1
DDA V 30 00 24 43.9 39.13N 29.01E 8 2.5 ¶16855753
ISK V 30 00 24 43.8 39.14N 29.03E 6 2.7
ISCJB V 30 00 24 44.0–.46 39.13N–.03 29.01E–.04 9 2.7
CSEM V 30 00 24 44.2–.08 39.13N 29.01E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=147.6.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=138.0.
ISC V 30 00 29 23.3–.99 39.13N–.03 29.07E–.02 9 28 0-2
DDA V 30 00 29 21.7 39.13N 29.01E 6 2.8 ¶16855754
ISCJB V 30 00 29 22.9–.52 39.12N–.04 29.07E–.04 9 2.8
ISK V 30 00 29 22.6 39.14N 29.07E 6 2.6
CSEM V 30 00 29 23.1–.08 39.12N 29.08E 7–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=5.0.
ISC V 30 00 53 55.7–.83 40.28N–.01 27.98E–.01 10–6 196 0-8
ISK V 30 00 53 54.7 40.26N 27.96E 14 2.9L ¶602862304
ATH V 30 00 53 54.5 40.28N 27.94E 15–2 2.7L
DDA V 30 00 53 55.1 40.25N 27.95E 18 3.2
ISCJB V 30 00 53 55.3–.33 40.29N–.02 27.98E–.02 6–2 3.2
CSEM V 30 00 53 55.6–.09 40.29N 27.98E 10 2.9L
THE V 30 00 53 56.9 40.28N 28.03E 12–3 3.0L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.0km s-min=1.8km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=170.6.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=164.0.
THE Event type ke. Error ellipse: s-maj=4.0km s-min=1.3km az=125.0.
ISC V 30 01 15 42.9–.90 39.14N–.03 29.00E–.03 13–8 43 0-2
ISK V 30 01 15 42.9 39.17N 28.99E 6 2.8 ¶16855763
ISCJB V 30 01 15 43.2–.51 39.13N–.03 29.01E–.03 7–5 2.8
CSEM V 30 01 15 43.3–.15 39.14N 28.99E 8 2.8
DDA V 30 01 15 43.2 39.10N 29.05E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=4.6.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=60.0.
ISC V 30 01 39 41.7–.94 39.10N–.03 29.04E–.02 10–10 37 0-4
ISCJB V 30 01 39 41.5–.55 39.09N–.04 29.05E–.04 5–8 ¶16855765
DDA V 30 01 39 41.2 39.13N 29.04E 7 2.6L
ISK V 30 01 39 41.2 39.07N 29.12E 9 2.7
CSEM V 30 01 39 41.6–.08 39.11N 29.04E 2 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=167.9.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=162.0.
ISC V 30 01 49 10.4–.94 39.12N–.04 28.99E–.03 9 28 0-1
ISK V 30 01 49 09.8 39.14N 28.97E 5 2.6 ¶16855767
ISCJB V 30 01 49 10.3–.54 39.12N–.04 28.98E–.04 9 2.6
CSEM V 30 01 49 10.2–.13 39.13N 28.97E 8 2.6
DDA V 30 01 49 10.2 39.08N 28.99E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=150.5.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=106.0.
ISC V 30 01 58 54.3–1.2 39.12N–.02 28.98E–.03 19–2 48 0-2
DDA V 30 01 58 53.9 39.11N 28.97E 7 2.4 ¶16855768
CSEM V 30 01 58 54.6–.09 39.12N 28.97E 5 2.4

ISK V 30 01 58 54.3 39.13N 28.98E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=77.0.
ISC V 30 02 05 30.0–.81 38.42N–.02 28.02E–.03 10 34 0-1
ISK V 30 02 05 28.3 38.40N 28.06E 17 2.2 ¶16855769
ISCJB V 30 02 05 29.6–.50 38.41N–.03 28.04E–.04 10 2.2
CSEM V 30 02 05 29.4–.29 38.41N 28.01E 12 2.2
DDA V 30 02 05 30.2 38.39N 28.10E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=28.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.3km az=103.0.
ISC V 30 02 21 07.2–.95 39.07N–.03 29.07E–.03 10–10 36 0-2
ISCJB V 30 02 21 07.0–.64 39.09N–.04 29.06E–.04 1–9 ¶16855770
DDA V 30 02 21 07.0 39.08N 29.06E 7 2.3L
ISK V 30 02 21 06.6 39.09N 29.10E 5 2.7
CSEM V 30 02 21 07.2–.10 39.09N 29.05E 5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.9km az=163.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=99.0.
ISC V 30 02 25 42.9–.97 39.05N–.04 29.08E–.03 12–9 38 0-2
ISK V 30 02 25 42.6 39.08N 29.11E 10 2.7 ¶16855771
ISCJB V 30 02 25 43.2–.60 39.10N–.04 29.03E–.04 3–8 2.7
DDA V 30 02 25 43.5 39.11N 29.03E 7 2.6
CSEM V 30 02 25 43.2–.17 39.10N 29.03E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=163.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=93.0.
ISC V 30 02 29 51.1–1.4 39.48N–.03 43.53E–.04 10–10 40 0-2
ISK V 30 02 29 50.7 39.58N 43.54E 8 2.9 ¶16855772
CSEM V 30 02 29 50.9–.42 39.53N 43.53E 12 2.9
DDA V 30 02 29 51.3 39.50N 43.48E 23 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=6.7km az=78.0.
ISC V 30 02 58 42.3–1.1 39.71N–.02 28.71E–.03 12–10 40 1-2
ISK V 30 02 58 41.8 39.69N 28.73E 5 2.5 ¶602862307
ISCJB V 30 02 58 42.2–.53 39.71N–.03 28.74E–.04 2–7 2.5
DDA V 30 02 58 42.5 39.67N 28.77E 7 2.7
CSEM V 30 02 58 42.6–.19 39.71N 28.73E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=150.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=58.0.
ISC V 30 03 18 31.8–.88 39.10N–.04 29.06E–.04 9 22 0-1
ISCJB V 30 03 18 32.0–.61 39.13N–.04 29.02E–.04 9 ¶16855775
CSEM V 30 03 18 31.9–.12 39.12N 29.01E 10 2.1L
ISK V 30 03 18 31.1 39.12N 29.00E 5 2.5
DDA V 30 03 18 32.4 39.09N 29.03E 7 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=112.0.
ISC V 30 03 26 56.7–.93 39.19N–.03 28.95E–.03 9 25 0-2
ISK V 30 03 26 55.9 39.21N 28.89E 5 2.7 ¶16855776
ISCJB V 30 03 26 56.7–.59 39.19N–.04 28.96E–.05 9 2.7
CSEM V 30 03 26 56.5–.17 39.17N 28.94E 15 2.6L
DDA V 30 03 26 57.5 39.09N 28.99E 6 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=143.4.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=94.0.
ISC V 30 03 29 54.4–.93 39.50N–.02 26.04E–.03 13–8 67 0-3
ISK V 30 03 29 54.7 39.50N 26.04E 11 2.9 ¶16855777
ATH V 30 03 29 54.3 39.51N 26.04E 12–3 1.7L
ISCJB V 30 03 29 54.7–.47 39.50N–.02 26.01E–.04 6–5 1.7L
CSEM V 30 03 29 55.0–.10 39.50N 26.02E 8 1.7L
THE V 30 03 29 55.0 39.50N 26.00E 1–2 1.7L
DDA V 30 03 30 34.8 39.19N 29.01E 7 2.0L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=0.8km az=244.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.4km az=172.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.8km az=86.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.6km az=183.0.
ISC V 30 03 31 13.1–1.0 39.05N–.03 29.08E–.03 10–9 36 0-2
ISCJB V 30 03 31 13.7–.55 39.11N–.04 29.03E–.04 5–7 ¶602862310
CSEM V 30 03 31 13.8–.13 39.13N 29.03E 5 2.4L
ISK V 30 03 31 13.1 39.07N 29.12E 10 2.7
DDA V 30 03 31 14.0 39.08N 29.00E 7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=156.6.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=146.0.
ISC V 30 03 34 12.1–.92 39.11N–.02 29.03E–.02 12–8 54 0-2
ISCJB V 30 03 34 12.1–.45 39.10N–.03 29.02E–.03 4–6 ¶16855779
CSEM V 30 03 34 12.2–.08 39.11N 29.02E 5 2.6L
ISK V 30 03 34 12.0 39.11N 29.03E 8 2.8
DDA V 30 03 34 12.1 39.09N 29.02E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=166.3.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=162.0.
ISC V 30 03 44 07.8–.87 37.21N–.04 30.53E–.04 10 38 0-2
DDA V 30 03 44 04.9 37.01N 30.77E 7 2.8L ¶16855781
ISK V 30 03 44 06.5 37.19N 30.55E 10 2.9
ISCJB V 30 03 44 07.1–.50 37.21N–.05 30.52E–.06 10 2.9
CSEM V 30 03 44 07.0–.14 37.20N 30.53E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=3.8km az=136.7.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.3km az=141.0.
ISC V 30 03 45 00.5–.89 39.07N–.03 29.18E–.03 14–7 36 0-2
ISK V 30 03 44 59.8 39.08N 29.21E 6 2.7 ¶16855782
ISCJB V 30 03 45 00.7–.53 39.10N–.04 29.14E–.04 7–7 2.7
CSEM V 30 03 45 00.7–.12 39.08N 29.17E 8 2.6L
DDA V 30 03 45 00.6 39.14N 29.13E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.6km az=150.8.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=126.0.
ISC V 30 04 13 16.8–.92 39.15N–.02 29.08E–.02 11–9 48 0-2
ISCJB V 30 04 13 16.7–.51 39.15N–.03 29.09E–.03 4–7 ¶16855784
ISK V 30 04 13 16.6 39.16N 29.13E 7 2.7
DDA V 30 04 13 16.5 39.14N 29.07E 7 3.0
CSEM V 30 04 13 17.0–.09 39.16N 29.09E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=151.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=128.0.
ISC V 30 04 18 48.7–.91 39.12N–.02 29.01E–.03 13–8 36 0-2
ISCJB V 30 04 18 48.7–.56 39.12N–.03 29.01E–.04 6–6 ¶16855786
CSEM V 30 04 18 48.7–.18 39.14N 29.00E 8 2.6
ISK V 30 04 18 48.4 39.12N 29.06E 10 2.7
DDA V 30 04 18 48.5 39.10N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.9km az=139.3.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=111.0.
ISC V 30 04 24 55.6–.88 39.11N–.03 29.00E–.03 9 48 0-2
ISCJB V 30 04 24 55.3–.52 39.10N–.04 29.02E–.05 9 ¶16855787
ISK V 30 04 24 55.1 39.11N 29.02E 8 2.8L
CSEM V 30 04 24 55.5–.09 39.11N 29.00E 8 2.8L
DDA V 30 04 24 55.7 39.11N 28.96E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.7km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=135.0.
DDA Event type ke.
ISC V 30 04 58 19.8–.97 38.56N–.02 39.54E–.03 13–9 38 0-2
CSEM V 30 04 58 19.6–.25 38.54N 39.54E 5 2.7 ¶16855789
ISK V 30 04 58 19.6 38.56N 39.51E 8 2.7
DDA V 30 04 58 21.0 38.60N 39.45E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.7km az=54.0.
ISC V 30 05 01 10.5–.98 39.12N–.03 29.01E–.03 8–10 36 0-2
ISCJB V 30 05 01 10.3–.56 39.11N–.04 29.01E–.04 5–7 ¶16855790
CSEM V 30 05 01 10.5–.09 39.12N 29.01E 5 2.7
ISK V 30 05 01 10.2 39.12N 29.05E 6 2.7
DDA V 30 05 01 10.1 39.10N 29.01E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=5.0km az=153.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=101.0.
ISC V 30 05 34 01.5–.90 39.10N–.03 29.08E–.03 17–8 36 0-2
ISCJB V 30 05 34 01.7–.50 39.12N–.03 29.05E–.04 7–6 ¶16855791
ISK V 30 05 34 01.1 39.10N 29.06E 7 2.7
CSEM V 30 05 34 01.8–.08 39.11N 29.04E 8 2.8
DDA V 30 05 34 02.1 39.09N 29.05E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=42.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=110.0.
ISC V 30 05 44 14.7–.97 39.14N–.03 29.11E–.04 13–12 28 0-1
ISCJB V 30 05 44 14.7–.55 39.14N–.04 29.08E–.04 9–6 ¶602862316
ISK V 30 05 44 14.0 39.11N 29.14E 9 2.5
CSEM V 30 05 44 14.8–.08 39.14N 29.09E 10 2.6
DDA V 30 05 44 15.2 39.11N 29.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.7km az=140.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=127.0.
ISC V 30 05 58 48.8–1.1 39.14N–.02 29.11E–.02 3–10 92 0-3
DDA V 30 05 58 48.5 39.11N 29.12E 7 3.4L ¶16855793
ISK V 30 05 58 48.5 39.13N 29.15E 5 3.3L
CSEM V 30 05 58 49.6–.11 39.13N 29.14E 2 3.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=84.0.
ISC V 30 06 20 32.5–.97 39.18N–.04 28.95E–.03 13–11 30 0-2
ISCJB V 30 06 20 32.4–.63 39.20N–.04 28.94E–.05 8–7 ¶16855794
CSEM V 30 06 20 32.2–.20 39.18N 28.93E 10 2.2L
DDA V 30 06 20 32.9 39.07N 28.99E 7 2.2L
ISK V 30 06 20 34.4 39.30N 29.02E 20 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.9km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=3.0.
ISC V 30 06 22 21.6–.98 39.14N–.03 29.05E–.03 17–12 30 0-2
ISCJB V 30 06 22 21.8–.52 39.14N–.03 29.04E–.04 10–6 ¶16855795
ISK V 30 06 22 21.1 39.15N 28.99E 6 2.6
CSEM V 30 06 22 21.9–.13 39.14N 29.04E 10 2.6L
DDA V 30 06 22 22.4 39.10N 29.07E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=28.9.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=105.0.
ISC V 30 06 32 11.0–.98 38.36N–.02 28.08E–.02 9–9 113 0-3
ISK V 30 06 32 10.9 38.35N 28.08E 6 3.1L ¶16855796
ISCJB V 30 06 32 11.1–.50 38.37N–.02 28.06E–.03 8–4 3.1L
DDA V 30 06 32 11.0 38.39N 28.12E 7 3.3L
CSEM V 30 06 32 11.2–.08 38.36N 28.07E 5 3.1L
THE V 30 06 32 12.3 38.38N 28.14E 15–5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=9.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=95.0.
THE Event type ke. Error ellipse: s-maj=6.1km s-min=1.4km az=74.0.
CSEM V 30 06 33 10.5 40.92N 33.80E 6 3.1
ISK V 30 06 33 10.5 40.92N 33.80E 6 3.1 ¶16855797
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 30 06 50 34.7–1.1 39.12N–.02 29.08E–.03 8–10 56 0-2
ISCJB V 30 06 50 34.9–.47 39.12N–.03 29.11E–.03 3–6 ¶16855799
ISK V 30 06 50 34.4 39.12N 29.12E 8 2.8
DDA V 30 06 50 35.1 39.14N 29.12E 7 2.7L
CSEM V 30 06 50 35.1–.08 39.12N 29.12E 8 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=140.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=122.0.
ISC V 30 06 56 37.6–.91 39.11N–.02 29.00E–.02 10–9 76 0-2
ISCJB V 30 06 56 37.3–.43 39.12N–.02 28.99E–.03 4–5 ¶16855800
CSEM V 30 06 56 37.6–.08 39.12N 29.00E 5 3.3L
ISK V 30 06 56 37.1 39.11N 29.02E 5 2.8
DDA V 30 06 56 37.0 39.15N 28.98E 8 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=42.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=111.0.
ISC V 30 07 33 29.4–.89 39.10N–.02 29.04E–.02 13–7 56 0-2
CSEM V 30 07 33 29.7–.09 39.11N 29.04E 5 3.0L ¶16855801
ISK V 30 07 33 29.2 39.11N 29.03E 7 2.6
DDA V 30 07 33 29.6 39.09N 29.05E 7 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=119.0.
ISC V 30 07 43 11.3–.99 39.15N–.02 29.04E–.02 7–10 60 0-2
DDA V 30 07 43 10.9 39.14N 29.03E 7 3.0L ¶16855802
ISCJB V 30 07 43 11.2–.53 39.13N–.03 29.06E–.03 1–6 3.0L
ISK V 30 07 43 11.1 39.11N 29.07E 8 2.9
CSEM V 30 07 43 11.6–.09 39.12N 29.06E 5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.2km az=166.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=86.0.
ISC V 30 07 52 50.5–1.1 39.12N–.02 28.97E–.03 13–11 30 0-1
DDA V 30 07 52 49.5 39.14N 28.99E 7 2.7L ¶16855803
ISCJB V 30 07 52 50.4–.58 39.12N–.04 28.99E–.04 5–7 2.7L
CSEM V 30 07 52 50.6–.09 39.12N 28.97E 5 2.7L
ISK V 30 07 52 50.2 39.10N 29.00E 7 2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.3km az=147.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=98.0.
ISC V 30 07 53 41.8–1.1 39.19N–.05 28.91E–.05 9 16 0-1
ISCJB V 30 07 53 40.5–.99 39.09N–.09 29.03E–.09 9 ¶16855806
ISK V 30 07 53 40.1 39.13N 28.99E 8 2.6
CSEM V 30 07 53 40.6–.16 39.12N 28.99E 8 2.6
DDA V 30 07 53 43.3 39.02N 28.79E 16 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=5.3km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=3.4km az=128.0.
ISC V 30 08 34 00.4–.90 39.10N–.02 28.98E–.03 15–8 35 0-2
ISK V 30 08 33 59.5 39.11N 28.96E 7 2.7 ¶16855807
ISCJB V 30 08 34 00.2–.52 39.10N–.03 28.99E–.05 8–6 2.7
CSEM V 30 08 34 00.2–.11 39.11N 28.97E 8 2.7
DDA V 30 08 34 00.4 39.09N 28.99E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.3km az=21.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=89.0.
ISC V 30 08 35 54.9–1.0 39.13N–.03 28.95E–.03 16–9 36 0-2
ISK V 30 08 35 54.6 39.13N 28.93E 6 2.8 ¶16855808
ISCJB V 30 08 35 55.3–.52 39.12N–.03 28.97E–.04 9–6 2.8
CSEM V 30 08 35 55.3–.12 39.13N 28.95E 8 2.4
DDA V 30 08 35 55.5 39.09N 28.98E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=5.2km az=175.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=88.0.
ISC V 30 08 42 30.7–.80 40.36N–.02 27.51E–.02 13–5 176 0-6
ISCJB V 30 08 42 30.7–.28 40.35N–.02 27.51E–.02 12–2 ¶16855809
ATH V 30 08 42 30.2 40.35N 27.48E 23–3 3.3L
SOF V 30 08 42 30.7 40.17N 27.21E 2 2.6
CSEM V 30 08 42 30.9–.07 40.34N 27.51E 10 3.6L
DDA V 30 08 42 30.4 40.31N 27.51E 23 3.3L

IASPE	V	30 08 42 30.6–.82	40.35N–.02	27.51E–.02	12–5	3.3L		
ISK	V	30 08 42 30.5	40.34N	27.51E	13	3.6L		
THE	V	30 08 42 32.6	40.38N	27.51E	21–3	3.3L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=177.1.							
ATH	Event type ke. Error ellipse: s-maj=5.4km s-min=1.8km az=45.0.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=167.0.							
IASPE	Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=174.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
THE	Event type ke. Error ellipse: s-maj=3.6km s-min=1.0km az=74.0.							
ISC	**V**	**30 08 52 40.8–.94**	**39.10N–.01**	**29.04E–.01**	**9–7**	**3.3b**	**223**	**0-39**
IDC	V	30 08 52 39.7–1.4	39.11N	29.13E	0	3.5,3.5		¶16702284
ISK	V	30 08 52 40.2	39.09N	29.04E	4	3.8L,3.5		
ISCJB	V	30 08 52 40.4–.42	39.09N–.02	29.02E–.02	6–3	3.4b,3.5		
CSEM	V	30 08 52 40.9–.09	39.08N	29.04E	5	3.8L,3.5		
DDA	V	30 08 52 40.2	39.10N	29.06E	12	3.8L,3.5		
THE	V	30 08 52 42.4	39.05N	28.93E	4–4	3.6L,3.5		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=41.0km s-min=16.7km az=150.0.							
ISCJB	Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=9.4.							
CSEM	Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=64.0.							
DDA	Event type ke.							
THE	Event type ke. Error ellipse: s-maj=5.1km s-min=1.6km az=117.0.							
ISC	**V**	**30 10 00 29.4–1.1**	**39.18N–.05**	**28.98E–.05**	**13–13**		**30**	**0-1**
ISK	V	30 10 00 28.7	39.17N	28.93E	12	2.5		¶16855814
ISCJB	V	30 10 00 29.9–.52	39.15N–.05	29.01E–.06	21–9	2.5		
CSEM	V	30 10 00 29.6–.16	39.19N	28.97E	10	2.5		
DDA	V	30 10 00 30.6	39.10N	29.04E	7	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.4km s-min=5.0km az=137.9.							
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=119.0.							
DDA	Event type ke.							
ISC	**V**	**30 10 03 39.1–.95**	**39.08N–.02**	**29.06E–.02**	**10–9**		**48**	**0-2**
ISCJB	V	30 10 03 39.0–.48	39.10N–.03	29.04E–.03	3–6			¶16855815
DDA	V	30 10 03 38.7	39.12N	29.05E	7	2.6		
ISK	V	30 10 03 39.2	39.13N	29.04E	6	2.9		
CSEM	V	30 10 03 39.2–.12	39.11N	29.04E	2	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=166.2.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=128.0.							
ISC	**V**	**30 10 09 41.9–1.2**	**37.14N–.02**	**28.73E–.02**	**1–11**		**46**	**0-1**
ISCJB	V	30 10 09 41.8–.51	37.12N–.03	28.72E–.03	1–9			¶16855816
DDA	V	30 10 09 41.9	37.13N	28.72E	7	2.7		
ISK	V	30 10 09 41.4	37.12N	28.74E	10	2.6		
CSEM	V	30 10 09 42.0–.12	37.13N	28.73E	10	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=19.5.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=17.0.							
ISC	**V**	**30 10 34 50.2–1.0**	**39.11N–.03**	**28.93E–.03**	**19–3**		**38**	**0-1**
ISCJB	V	30 10 34 49.9–.45	39.12N–.03	28.92E–.04	12–5			¶16855820
ISK	V	30 10 34 49.8	39.11N	28.85E	16	2.7		
CSEM	V	30 10 34 50.1–.13	39.11N	28.89E	15	2.6		
DDA	V	30 10 34 50.4	39.12N	28.97E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.4km s-min=5.2km az=168.1.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=98.0.							
DDA	Event type ke.							
ISC	**V**	**30 11 20 24.8–.93**	**38.59N–.03**	**28.62E–.03**	**5–9**		**34**	**0-1**
ISCJB	V	30 11 20 24.5–.48	38.59N–.03	28.64E–.04	6–7			¶16855822
CSEM	V	30 11 20 24.6–.11	38.59N	28.64E	2	2.4		
ISK	V	30 11 20 24.5	38.57N	28.62E	9	2.4		
DDA	V	30 11 20 24.4	38.59N	28.66E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=5.1km az=3.6.							
CSEM	Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=59.0.							
ISC	**V**	**30 11 49 28.2–.90**	**39.13N–.02**	**29.00E–.02**	**14–8**		**74**	**0-2**
ISCJB	V	30 11 49 27.9–.42	39.15N–.02	28.98E–.03	7–4			¶16855827
ISK	V	30 11 49 27.4	39.11N	28.98E	12	3.0L		
DDA	V	30 11 49 28.9	39.09N	28.99E	7	2.7		
CSEM	V	30 11 49 28.2–.09	39.14N	28.98E	10	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=34.7.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=111.0.							
ISC	**V**	**30 12 20 35.1–.90**	**39.13N–.02**	**28.97E–.02**	**14–9**		**81**	**0-2**
ISCJB	V	30 12 20 34.8–.42	39.15N–.02	28.95E–.03	6–4			¶16855829
ISK	V	30 12 20 34.4	39.13N	28.98E	14	2.9L		
DDA	V	30 12 20 35.2	39.11N	28.99E	10	3.2L		
CSEM	V	30 12 20 35.0–.12	39.13N	28.96E	10	3.2L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=44.8.							
CSEM	Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=124.0.							
ISC	**V**	**30 13 08 14.5–.85**	**39.09N–.02**	**28.98E–.02**	**17–6**		**55**	**0-2**
ISCJB	V	30 13 08 14.6–.48	39.10N–.03	28.98E–.03	7–5			¶16855830
DDA	V	30 13 08 14.7	39.08N	28.97E	7	2.7		
ISK	V	30 13 08 14.4	39.09N	28.98E	9	2.7L		
CSEM	V	30 13 08 14.7–.07	39.10N	28.98E	5	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=4.1km az=164.1.							
CSEM	Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=86.0.							
ISC	**V**	**30 13 50 43.5–.97**	**39.02N–.03**	**29.25E–.05**	**9**		**26**	**0-2**
ISK	V	30 13 50 43.6	38.90N	29.46E	24	2.6L		¶16855831
CSEM	V	30 13 50 44.2–.39	38.97N	29.35E	10	2.5		
ISCJB	V	30 13 50 45.8–.54	39.09N–.04	29.02E–.05	9	2.5		
DDA	V	30 13 50 45.5	39.16N	28.98E	8	2.5		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=14.2km s-min=6.5km az=112.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=145.7.							
ISC	**V**	**30 13 51 06.6–1.0**	**39.20N–.03**	**28.89E–.05**	**27–9**		**28**	**0-1**
ISK	V	30 13 51 05.3	39.23N	28.75E	9	2.5L		¶16855834
CSEM	V	30 13 51 06.5–.41	39.23N	28.84E	10	2.7		
ISCJB	V	30 13 51 07.2–.61	39.18N–.04	28.88E–.07	31–5	2.7		
DDA	V	30 13 51 09.1	39.08N	28.99E	7	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=11.7km s-min=7.3km az=103.0.							
ISCJB	Event type ke. Error ellipse: s-maj=10.1km s-min=5.8km az=24.2.							
ISC	**V**	**30 13 53 22.7–.89**	**39.10N–.03**	**29.05E–.03**	**15–8**		**36**	**0-1**
ISK	V	30 13 53 21.9	39.07N	29.11E	8	2.5		¶16855835
ISCJB	V	30 13 53 22.7–.53	39.10N–.04	29.04E–.04	6–9	2.5		
CSEM	V	30 13 53 22.8–.16	39.12N	29.03E	8	2.5		
DDA	V	30 13 53 22.8	39.07N	29.06E	7	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=149.8.							
CSEM	Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=133.0.							
ISC	**V**	**30 14 48 40.2–.89**	**39.12N–.02**	**29.01E–.03**	**14–8**		**42**	**0-2**
DDA	V	30 14 48 39.9	39.15N	29.02E	11	2.7		¶16855837
ISK	V	30 14 48 39.7	39.12N	29.04E	10	2.7		
ISCJB	V	30 14 48 40.1–.48	39.12N–.03	29.00E–.04	8–5	2.7		
CSEM	V	30 14 48 40.2–.06	39.13N	29.01E	8	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=41.8.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=124.0.							
ISC	**V**	**30 14 50 13.2–.88**	**39.12N–.02**	**28.98E–.02**	**14–8**		**50**	**0-2**
ISCJB	V	30 14 50 12.9–.44	39.11N–.03	28.98E–.03	9–4			¶16855838
DDA	V	30 14 50 12.8	39.11N	28.98E	7	2.8		
ISK	V	30 14 50 12.6	39.11N	29.01E	9	2.7		
CSEM	V	30 14 50 13.1–.07	39.11N	28.98E	10	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.4km s-min=4.2km az=39.4.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=95.0.							
ISC	**V**	**30 14 52 06.6–1.0**	**39.13N–.02**	**29.03E–.01**	**4–9**		**145**	**0-3**
ISK	V	30 14 52 05.9	39.13N	29.05E	6	3.4L		¶16855839
DDA	V	30 14 52 05.9	39.13N	29.01E	18	3.5		
THE	V	30 14 52 06.6	39.01N	29.17E	12–2	3.3L		
CSEM	V	30 14 52 06.2–.08	39.14N	29.03E	2	3.5		
ISC	Event type ke.							
DDA	Event type ke.							
THE	Event type ke. Error ellipse: s-maj=2.6km s-min=0.5km az=131.0.							
CSEM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=133.0.							
ISC	**V**	**30 14 53 47.4–.88**	**39.14N–.02**	**28.96E–.02**	**12–7**		**84**	**0-2**
ISCJB	V	30 14 53 46.9–.43	39.14N–.02	28.97E–.03	5–4			¶16855840
ISK	V	30 14 53 46.5	39.14N	28.95E	10	3.3L		
DDA	V	30 14 53 46.8	39.12N	28.96E	18	3.3L		
CSEM	V	30 14 53 47.1–.07	39.14N	28.96E	8	3.3L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=39.9.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=120.0.							
ISC	**V**	**30 15 10 48.1–.91**	**39.09N–.03**	**29.02E–.03**	**14–9**		**28**	**0-1**
ISK	V	30 15 10 47.7	39.09N	29.09E	8	2.5		¶16855841
ISCJB	V	30 15 10 48.1–.58	39.10N–.04	29.02E–.04	5–7	2.5		
DDA	V	30 15 10 48.3	39.06N	29.03E	7	2.4		
CSEM	V	30 15 10 48.2–.11	39.12N	29.01E	5	2.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=143.9.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=123.0.							
ISC	**V**	**30 15 20 07.5–.92**	**37.85N–.02**	**27.27E–.02**	**13–8**		**70**	**0-2**
ISCJB	V	30 15 20 07.4–.44	37.84N–.02	27.28E–.02	9–4			¶16855842
DDA	V	30 15 20 07.1	37.85N	27.27E	7	3.2		
CSEM	V	30 15 20 07.6–.14	37.85N	27.27E	10	2.3L		
ISK	V	30 15 20 07.1	37.84N	27.29E	14	2.9		
THE	V	30 15 20 08.8	37.80N	27.22E	3–2	2.3L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=32.7.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=48.0.							
THE	Event type ke. Error ellipse: s-maj=2.8km s-min=0.4km az=207.0.							
ISC	**V**	**30 15 22 03.7–.88**	**39.10N–.03**	**28.99E–.03**	**15–8**		**36**	**0-1**
ISCJB	V	30 15 22 03.9–.54	39.10N–.03	28.98E–.04	6–6			¶16855843
CSEM	V	30 15 22 03.9–.10	39.12N	28.96E	5	2.6		
ISK	V	30 15 22 03.1	39.09N	29.03E	8	2.5		
DDA	V	30 15 22 04.2	39.08N	28.98E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=4.2km az=43.8.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=121.0.							
DDA	Event type ke.							
ISC	**V**	**30 16 14 58.6–.91**	**39.10N–.03**	**29.04E–.03**	**17–8**		**32**	**0-1**
ISK	V	30 16 14 58.2	39.07N	29.12E	12	2.5		¶16855847
ISCJB	V	30 16 14 59.0–.55	39.11N–.03	29.03E–.04	9–5	2.5		
DDA	V	30 16 14 59.4	39.10N	29.03E	7	2.5		
CSEM	V	30 16 14 59.0–.11	39.12N	29.02E	10	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=39.4.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=117.0.							
ISC	**V**	**30 16 22 35.9–.91**	**39.08N–.03**	**29.06E–.03**	**13–9**		**34**	**0-1**
ISCJB	V	30 16 22 35.7–.53	39.09N–.03	29.06E–.04	7–5			¶16855848
DDA	V	30 16 22 35.5	39.10N	29.04E	7	2.7		
CSEM	V	30 16 22 35.7–.09	39.10N	29.04E	8	2.7		
ISK	V	30 16 22 35.1	39.10N	29.06E	8	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=147.2.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=120.0.							
ISC	**V**	**30 16 32 23.1–1.0**	**39.09N–.03**	**29.09E–.03**	**9–11**		**40**	**0-2**
ISCJB	V	30 16 32 23.4–.71	39.12N–.04	29.11E–.04	1–12			¶16855849
DDA	V	30 16 32 23.3	39.11N	29.13E	11	2.8		
CSEM	V	30 16 32 23.6–.12	39.12N	29.10E	2	2.8		
ISK	V	30 16 32 23.4	39.11N	29.11E	5	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.5km s-min=4.9km az=175.0.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=89.0.							
ISC	**V**	**30 16 33 36.7–.87**	**39.08N–.03**	**29.03E–.02**	**15–7**		**48**	**0-2**
ISCJB	V	30 16 33 36.5–.51	39.09N–.03	29.03E–.03	7–5			¶16855850
DDA	V	30 16 33 36.5	39.10N	29.05E	10	2.8		
CSEM	V	30 16 33 36.6–.08	39.10N	29.03E	8	2.8		
ISK	V	30 16 33 36.1	39.08N	29.02E	11	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=177.3.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=149.0.							
ISC	**V**	**30 16 47 14.9–.92**	**39.11N–.03**	**28.97E–.02**	**16–8**		**36**	**0-2**
ISK	V	30 16 47 13.8	39.10N	28.96E	9	2.7		¶16855852
ISCJB	V	30 16 47 14.6–.60	39.11N–.03	28.98E–.04	10–5	2.7		
CSEM	V	30 16 47 14.7–.12	39.11N	28.97E	12	2.6		
DDA	V	30 16 47 15.2	39.09N	29.01E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.7km az=171.7.							
CSEM	Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=137.0.							
DDA	Event type ke.							
ISC	**V**	**30 16 59 03.0–1.0**	**39.14N–.03**	**29.10E–.04**	**11–10**		**30**	**0-1**
CSEM	V	30 16 59 02.9–.17	39.16N	29.12E	5	2.8		¶16855853
ISK	V	30 16 59 02.4	39.16N	29.03E	4	2.5		
ISCJB	V	30 16 59 03.3–.62	39.13N–.03	29.13E–.04	11–5	2.5		
DDA	V	30 16 59 03.8	39.09N	29.14E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=110.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=135.2.							
DDA	Event type ke.							
ISC	**V**	**30 17 06 09.1–.89**	**39.14N–.02**	**29.06E–.02**	**15–8**		**58**	**0-2**
ISCJB	V	30 17 06 08.8–.42	39.14N–.02	29.06E–.03	9–4			¶16855854
DDA	V	30 17 06 08.5	39.14N	29.05E	7	2.8		
ISK	V	30 17 06 08.3	39.14N	29.05E	10	2.7		
CSEM	V	30 17 06 09.0–.06	39.14N	29.06E	10	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=32.0.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=112.0.							
ISC	**V**	**30 17 57 33.6–.99**	**39.16N–.02**	**29.00E–.02**	**6–9**		**95**	**0-3**
ISCJB	V	30 17 57 33.1–.45	39.14N–.02	29.02E–.02	0–4			¶16855858
CSEM	V	30 17 57 33.5–.09	39.16N	29.03E	2	3.8L		
ISK	V	30 17 57 33.1	39.15N	29.03E	6	3.3L		
DDA	V	30 17 57 33.6	39.14N	29.01E	8	3.8L		
THE	V	30 17 57 37.0	38.96N	28.90E	0–0	3.3L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=144.5.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=115.0.							
DDA	Event type ke.							
THE	Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=29.0.							
ISC	**V**	**30 18 07 00.1–.00**	**39.06N–.05**	**29.10E–.04**	**13–10**		**28**	**0-2**
ISK	V	30 18 06 59.4	39.10N	29.04E	8	2.5		¶16855859
ISCJB	V	30 18 07 00.3–.55	39.09N–.04	29.06E–.05	10–5	2.5		
DDA	V	30 18 07 00.6	39.08N	29.06E	7	2.5		
CSEM	V	30 18 07 00.3–.08	39.09N	29.06E	10	2.5		
ISC	Event type ke.							

ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=137.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.4km az=127.0.
ISC V 30 18 19 07.7–1.0 39.13N–.02 29.04E–.02 19–3 49 0-1
ISK V 30 18 19 06.7 39.15N 28.98E 9 2.5 ¶16855863
DDA V 30 18 19 07.9 39.11N 29.02E 7 2.8
CSEM V 30 18 19 07.5–.14 39.15N 29.01E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=121.0.
ISC V 30 18 39 59.6–.93 39.10N–.03 29.06E–.03 13–9 28 0-1
ISK V 30 18 39 58.9 39.13N 29.04E 8 2.4 ¶16855864
ISCJB V 30 18 39 59.4–.58 39.11N–.04 29.05E–.04 10–5 2.4
CSEM V 30 18 39 59.3–.06 39.11N 29.04E 9–0 2.6
DDA V 30 18 39 59.5 39.07N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=137.8.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=131.0.
DDA Event type ke.
ISC V 30 19 05 25.9–.87 39.12N–.03 29.02E–.02 17–7 44 0-2
ISK V 30 19 05 24.7 39.12N 29.00E 7 2.7 ¶16855865
CSEM V 30 19 05 25.6–.14 39.12N 29.03E 10 2.7
DDA V 30 19 05 26.0 39.09N 29.05E 9 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=138.0.
DDA Event type ke.
ISC V 30 19 07 00.6–.89 39.08N–.02 29.09E–.02 16–7 64 0-2
DDA V 30 19 07 00.9 39.10N 29.06E 7 2.9 ¶16855866
ISK V 30 19 07 00.5 39.10N 29.05E 5 2.8
CSEM V 30 19 07 01.1–.08 39.11N 29.06E 5 2.9
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=111.0.
ISC V 30 19 15 29.7–1.2 39.12N–.04 29.02E–.04 21–2 28 0-2
ISK V 30 19 15 27.8 39.13N 28.97E 3 2.4 ¶16855867
ISCJB V 30 19 15 29.6–.58 39.13N–.04 29.02E–.04 12–5 2.4
CSEM V 30 19 15 29.4–.25 39.14N 29.00E 5 2.7
DDA V 30 19 15 30.3 39.09N 29.04E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=140.7.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=122.0.
DDA Event type ke.
ISC V 30 19 42 48.1–1.1 39.10N–.02 29.06E–.02 7–10 44 0-2
ISK V 30 19 42 47.2 39.10N 29.06E 8 2.7 ¶16855868
ISCJB V 30 19 42 48.4–.49 39.12N–.03 29.04E–.04 5–7 2.7
CSEM V 30 19 42 48.6–.23 39.13N 29.05E 10 2.8
DDA V 30 19 42 49.2 39.12N 29.07E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=37.9.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=106.0.
DDA Event type ke.
ISC V 30 20 15 24.7–.99 39.12N–.03 28.97E–.03 17–9 37 0-1
ISK V 30 20 15 24.3 39.12N 28.99E 10 2.6 ¶16855870
ISCJB V 30 20 15 25.0–.46 39.13N–.03 28.97E–.04 11–5 2.6
DDA V 30 20 15 25.7 39.08N 28.98E 11 2.5
CSEM V 30 20 15 25.2–.09 39.12N 28.97E 12 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=25.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=99.0.
ISC V 30 20 21 41.5–.97 39.05N–.03 29.08E–.02 12–8 58 0-2
ISCJB V 30 20 21 41.8–.45 39.10N–.03 29.03E–.03 8–4 ¶16855871
DDA V 30 20 21 41.7 39.11N 29.03E 9 2.8
CSEM V 30 20 21 41.9–.08 39.10N 29.04E 10 2.8
ISK V 30 20 21 41.1 39.08N 29.08E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=146.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=130.0.
ISC V 30 20 31 51.7–.85 39.12N–.03 28.94E–.03 14–9 38 0-2
ISK V 30 20 31 50.8 39.12N 28.94E 9 2.7 ¶16855872
ISCJB V 30 20 31 51.8–.49 39.12N–.03 28.97E–.04 11–5 2.7
DDA V 30 20 31 51.6 39.13N 28.96E 7 2.5
CSEM V 30 20 31 51.7–.09 39.13N 28.95E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=30.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=107.0.
ISC V 30 20 39 39.5–1.0 39.13N–.03 28.97E–.03 18–3 42 0-2
ISK V 30 20 39 38.9 39.14N 28.92E 8 2.7 ¶16855873
ISCJB V 30 20 39 39.5–.45 39.14N–.03 28.95E–.04 11–5 2.7
DDA V 30 20 39 39.8 39.14N 28.96E 9 2.6
CSEM V 30 20 39 39.6–.08 39.14N 28.93E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=22.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=95.0.
ISC V 30 21 59 52.8–.91 39.10N–.02 29.16E–.02 16–7 60 0-2
ISCJB V 30 21 59 52.9–.43 39.10N–.03 29.12E–.03 5–6 ¶16855876
ISK V 30 21 59 52.4 39.10N 29.13E 6 2.6
DDA V 30 21 59 53.1 39.10N 29.12E 5 2.7
CSEM V 30 21 59 53.1–.09 39.10N 29.13E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=145.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=121.0.
ISC V 30 22 03 36.0–.95 39.14N–.01 29.01E–.01 8–7 3.3b 265 0-40
IDC V 30 22 03 34.1–1.3 39.11N 29.12E 0 3.3,3.3b ¶16702344
DDA V 30 22 03 35.1 39.16N 29.01E 15 4.0L,3.3b
THE V 30 22 03 35.1 39.18N 29.12E 0–1 3.7L,3.3b
ISK V 30 22 03 35.3 39.13N 29.06E 5 3.8L,3.3b
CSEM V 30 22 03 36.4–.09 39.12N 29.05E 10 4.0L,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=18.9km az=68.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=64.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=86.0.
ISC V 30 22 35 35.9–.90 39.16N–.03 28.95E–.03 18–6 36 0-2
ISK V 30 22 35 34.8 39.15N 28.94E 9 2.7 ¶16855878
ISCJB V 30 22 35 35.5–.50 39.16N–.03 28.94E–.04 10–6 2.7
CSEM V 30 22 35 35.6–.09 39.16N 28.93E 10 2.6
DDA V 30 22 35 36.5 39.13N 28.98E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.7km az=39.4.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=99.0.
DDA Event type ke.
ISC V 30 22 37 25.3–.98 39.09N–.03 29.08E–.02 14–8 48 0-2
ISK V 30 22 37 24.8 39.09N 29.09E 5 2.7 ¶16855879
ISCJB V 30 22 37 25.7–.48 39.11N–.03 29.06E–.03 7–5 2.7
DDA V 30 22 37 25.7 39.09N 29.06E 7 2.7
CSEM V 30 22 37 25.9–.13 39.10N 29.06E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=42.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=125.0.
ISC V 30 23 00 46.1–1.1 39.14N–.02 29.14E–.03 9–12 36 0-2
ISK V 30 23 00 45.4 39.13N 29.11E 10 2.7 ¶16855880
ISCJB V 30 23 00 46.2–.47 39.14N–.03 29.08E–.04 9–5 2.7
DDA V 30 23 00 46.3 39.15N 29.07E 7 2.8
CSEM V 30 23 00 46.2–.12 39.14N 29.09E 10 2.8
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=20.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=87.0.
ISC V 30 23 03 15.9–.86 39.12N–.02 28.97E–.02 13–7 99 0-2
DDA V 30 23 03 15.4 39.13N 28.97E 17 3.4L ¶16855881
CSEM V 30 23 03 15.8–.07 39.12N 28.97E 8 3.4L
ISK V 30 23 03 15.0 39.11N 28.97E 9 3.0L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=128.0.
ISC V 30 23 13 52.1–.94 39.10N–.03 29.08E–.02 15–8 49 0-2
ISK V 30 23 13 51.6 39.12N 29.02E 6 2.8 ¶16855882
DDA V 30 23 13 52.5 39.09N 29.05E 7 2.7
CSEM V 30 23 13 52.5–.14 39.13N 29.05E 5 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=150.0.
ISC V 30 23 14 30.2–.89 39.13N–.02 28.98E–.03 17–7 42 0-1
ISK V 30 23 14 29.9 39.14N 28.99E 10 2.7 ¶16855885
ISCJB V 30 23 14 30.3–.44 39.14N–.03 28.97E–.04 10–5 2.7
CSEM V 30 23 14 30.4–.07 39.14N 28.98E 10 2.7
DDA V 30 23 14 31.1 39.08N 28.99E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=166.3.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=75.0.
DDA Event type ke.
ISC V 30 23 23 10.1–.94 39.07N–.03 29.13E–.02 14–8 47 0-2
ISK V 30 23 23 09.6 39.10N 29.11E 10 2.7 ¶16855886
ISCJB V 30 23 23 10.3–.44 39.11N–.02 29.09E–.03 7–5 2.7
DDA V 30 23 23 10.6 39.14N 29.08E 7 3.0
CSEM V 30 23 23 10.4–.12 39.11N 29.10E 10 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=16.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=96.0.
ISC V 30 23 27 14.4–.95 39.16N–.03 28.98E–.03 17–10 36 0-1
ISK V 30 23 27 13.9 39.16N 28.96E 9 2.6 ¶16855887
ISCJB V 30 23 27 14.5–.47 39.17N–.03 28.97E–.04 10–6 2.6
CSEM V 30 23 27 14.6–.09 39.17N 28.96E 10 2.9
DDA V 30 23 27 15.8 39.09N 29.01E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=146.3.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=118.0.
DDA Event type ke.
ISC V 30 23 32 05.9–.93 39.14N–.02 29.10E–.02 10–8 71 0-2
ISCJB V 30 23 32 05.5–.46 39.13N–.02 29.10E–.03 3–5 ¶16855888
CSEM V 30 23 32 05.8–.08 39.13N 29.11E 8 2.9
ISK V 30 23 32 05.2 39.12N 29.14E 11 2.8
DDA V 30 23 32 05.3 39.14N 29.09E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=44.3.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=121.0.
DDA Event type ke.
ISC V 31 00 23 23.5–1.0 38.36N–.01 28.06E–.02 6–9 214 0-4
ISK V 31 00 23 22.7 38.35N 28.05E 9 3.3L ¶602862391
ISCJB V 31 00 23 23.5–.50 38.38N–.01 28.08E–.02 8–4 3.3L
DDA V 31 00 23 23.5 38.37N 28.10E 15 3.8L
CSEM V 31 00 23 23.7–.06 38.36N 28.07E 8 3.1L
THE V 31 00 23 24.8 38.37N 28.14E 10–3 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=13.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=99.0.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=0.9km az=67.0.
ISC V 31 00 52 38.7–.96 38.37N–.02 28.09E–.02 11–9 111 0-3
DDA V 31 00 52 38.5 38.40N 28.08E 22 3.4L ¶16855899
CSEM V 31 00 52 38.7–.10 38.37N 28.09E 10 2.9L
THE V 31 00 52 38.5 38.33N 28.14E 1–1 2.9L
ISK V 31 00 52 38.1 38.41N 28.09E 12 3.2
ISCJB V 31 00 52 39.5–.33 38.38N–.02 28.09E–.02 17–5 3.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC V 31 00 57 46.0–.96 39.11N–.03 29.03E–.03 20–4 34 0-2
ISK V 31 00 57 45.6 39.10N 29.04E 6 2.7 ¶16855900
ISCJB V 31 00 57 46.2–.50 39.11N–.03 29.01E–.03 8–5 2.7
DDA V 31 00 57 46.3 39.10N 29.02E 7 2.9
CSEM V 31 00 57 46.4–.10 39.11N 29.02E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=178.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.3km az=87.0.
ISC V 31 01 11 30.4–1.5 39.13N–.03 29.02E–.03 13–15 24 0-1
ISK V 31 01 11 30.3 39.11N 29.02E 16 2.5 ¶16855901
ISCJB V 31 01 11 31.2–.62 39.13N–.04 29.01E–.05 12–6 2.5
DDA V 31 01 11 31.7 39.09N 29.03E 7 2.5
CSEM V 31 01 11 31.1–.14 39.13N 29.00E 13–1 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.1km az=140.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=130.0.
ISC V 31 01 17 20.4–.89 39.11N–.03 29.00E–.02 13–8 58 0-2
ISK V 31 01 17 19.6 39.12N 29.01E 9 2.8 ¶16855902
ISCJB V 31 01 17 20.0–.48 39.11N–.03 28.99E–.03 6–5 2.8
DDA V 31 01 17 20.0 39.11N 29.00E 7 3.1
CSEM V 31 01 17 20.1–.07 39.11N 29.00E 8 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=5.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.4km az=29.0.
ISC V 31 01 45 16.4–.97 39.11N–.02 29.08E–.02 16–9 46 0-2
ISK V 31 01 45 15.4 39.10N 29.10E 5 2.8 ¶16855903
ISCJB V 31 01 45 16.4–.53 39.12N–.03 29.08E–.03 5–6 2.8
DDA V 31 01 45 16.5 39.11N 29.07E 8 3.0
CSEM V 31 01 45 16.5–.15 39.11N 29.07E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.4km az=163.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.3km az=128.0.
ISC V 31 01 54 38.8–.95 39.09N–.03 29.13E–.02 15–8 34 0-1
ISK V 31 01 54 38.4 39.11N 29.11E 6 2.6 ¶16855904
ISCJB V 31 01 54 39.2–.54 39.11N–.03 29.09E–.04 8–5 2.6
CSEM V 31 01 54 39.2–.12 39.12N 29.09E 8 2.9
DDA V 31 01 54 39.0 39.13N 29.09E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=149.3.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=123.0.
DDA Event type ke.
ISC V 31 02 05 37.0–.91 39.15N–.02 28.97E–.02 11–8 78 0-2
ISK V 31 02 05 35.9 39.13N 28.97E 7 2.9 ¶16855905
ISCJB V 31 02 05 36.3–.48 39.16N–.02 28.97E–.03 1–5 2.9
DDA V 31 02 05 36.7 39.16N 28.98E 8 3.3
CSEM V 31 02 05 36.8–.10 39.16N 28.97E 5 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=160.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=146.0.
ISC V 31 02 52 38.0–.88 39.11N–.02 29.04E–.02 16–7 61 0-2
ISK V 31 02 52 37.5 39.12N 29.04E 10 2.9 ¶16855907

DDA V 31 02 52 38.3 39.13N 29.02E 9 2.8
CSEM V 31 02 52 38.3–.11 39.13N 29.02E 8 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=163.0.
ISC V 31 03 14 53.4–.97 39.12N–.03 29.05E–.02 20–4 54 0-2
ISK V 31 03 14 52.7 39.12N 29.02E 11 2.8 **¶16855908**
DDA V 31 03 14 53.7 39.10N 29.05E 7 2.8
CSEM V 31 03 14 53.5–.11 39.13N 29.02E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=138.0.
ISC V 31 03 17 53.9–.94 39.07N–.03 29.08E–.02 14–8 50 0-2
ISK V 31 03 17 53.6 39.09N 29.06E 12 2.7 **¶16855909**
ISCJB V 31 03 17 54.3–.46 39.11N–.03 29.05E–.03 6–5 2.7
DDA V 31 03 17 54.4 39.09N 29.03E 7 2.9
CSEM V 31 03 17 54.4–.11 39.11N 29.05E 10 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=142.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=133.0.
ISC V 31 03 27 54.4–.87 39.16N–.02 29.02E–.03 9 32 0-2
ISCJB V 31 03 27 54.6–.49 39.16N–.03 29.08E–.04 9 **¶16855911**
CSEM V 31 03 27 54.6–.17 39.16N 29.05E 10 2.6
ISK V 31 03 27 54.2 39.19N 29.03E 7 2.6
DDA V 31 03 27 55.3 39.09N 29.11E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=145.1.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=86.0.
DDA Event type ke.
ISC V 31 03 31 27.5–.97 39.12N–.02 29.13E–.02 8–9 72 0-2
ISK V 31 03 31 26.6 39.11N 29.15E 8 2.9 **¶16855912**
ISCJB V 31 03 31 27.1–.45 39.11N–.02 29.14E–.03 7–4 2.9
CSEM V 31 03 31 27.3–.06 39.11N 29.14E 8 3.2
DDA V 31 03 31 27.1 39.11N 29.13E 8 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=159.2.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=116.0.
DDA Event type ke.
ISC V 31 03 34 37.5–.95 39.12N–.02 29.11E–.03 12–9 50 0-2
ISCJB V 31 03 34 37.2–.52 39.11N–.03 29.10E–.04 4–6 **¶16855913**
ISK V 31 03 34 37.0 39.12N 29.11E 8 2.7
CSEM V 31 03 34 37.5–.08 39.11N 29.12E 10 3.0
DDA V 31 03 34 37.5 39.13N 29.11E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=110.0.
DDA Event type ke.
ISC V 31 04 27 35.4–.88 39.14N–.01 28.98E–.02 12–7 226 0-7
ISCJB V 31 04 27 34.9–.39 39.12N–.01 28.96E–.02 8–3 **¶16855915**
DDA V 31 04 27 34.6 39.11N 28.98E 18 3.9L
ISK V 31 04 27 34.6 39.13N 29.00E 8 3.7L
CSEM V 31 04 27 35.3–.06 39.11N 28.98E 8 3.9L
THE V 31 04 27 37.2 39.04N 28.78E 0–1 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=22.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=106.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.7km az=65.0.
ISC V 31 04 39 08.2–.89 39.09N–.02 29.08E–.02 16–7 52 0-2
ISK V 31 04 39 07.8 39.08N 29.08E 5 2.7 **¶16855916**
DDA V 31 04 39 07.9 39.10N 29.08E 5 2.6
ISCJB V 31 04 39 08.3–.47 39.08N–.03 29.07E–.03 6–6 2.6
CSEM V 31 04 39 08.5–.10 39.08N 29.07E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.8km az=177.1.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=15.0.
ISC V 31 05 37 52.1–1.0 39.14N–.03 29.02E–.02 5–11 39 0-2
DDA V 31 05 37 51.5 39.11N 29.03E 7 2.7 **¶601586076**
CSEM V 31 05 37 51.5 39.11N 29.03E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 31 05 46 26.6–.94 39.08N–.03 29.01E–.03 12–10 26 0-1
ISK V 31 05 46 25.7 39.08N 29.01E 7 2.4 **¶602862409**
ISCJB V 31 05 46 26.4–.57 39.08N–.04 29.01E–.04 8–6 2.4
CSEM V 31 05 46 26.4–.08 39.09N 29.00E 8 2.6
DDA V 31 05 46 26.1 39.08N 29.01E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=140.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=111.0.
ISC V 31 05 56 40.9–.95 39.12N–.04 28.97E–.03 9 24 0-1
ISCJB V 31 05 56 40.5–.58 39.11N–.04 28.98E–.04 9 **¶16855918**
CSEM V 31 05 56 40.5–.14 39.13N 28.97E 3–2 2.6
ISK V 31 05 56 40.1 39.11N 29.02E 5 2.5L
DDA V 31 05 56 40.4 38.96N 28.98E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=151.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=139.0.
ISC V 31 06 46 19.5–1.1 37.37N–.04 42.55E–.03 9–7 54 0-3
ISN V 31 06 46 14.0–.30 37.22N 42.63E 0 3.2L **¶16596637**
CSEM V 31 06 46 17.6–.33 37.20N 42.58E 2 3.0L
DDA V 31 06 46 18.9 37.39N 42.58E 5 3.4
ISK V 31 06 46 19.3 37.39N 42.55E 6 3.0L
ISC Event type ke.
ISN Error ellipse: s-maj=2.7km s-min=1.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=14.0.
ISC V 31 07 59 58.8–1.1 39.15N–.04 29.01E–.05 15–12 28 0-1
CSEM V 31 07 59 58.9–.19 39.18N 29.01E 6 2.4 **¶16855922**
ISK V 31 07 59 58.3 39.17N 28.97E 6 2.6
ISCJB V 31 07 59 59.0–.54 39.14N–.05 29.03E–.05 12–7 2.6
DDA V 31 07 59 59.4 39.12N 29.06E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.5km az=140.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.8km az=151.3.
ISC V 31 08 08 07.4–.98 39.09N–.03 29.14E–.03 9 22 0-1
ISK V 31 08 08 06.5 39.05N 29.22E 5 2.4 **¶16855923**
ISCJB V 31 08 08 07.7–.59 39.09N–.04 29.12E–.05 9 2.4
CSEM V 31 08 08 07.8–.16 39.09N 29.13E 5 2.4
DDA V 31 08 08 07.3 39.13N 29.11E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=146.4.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=123.0.
ISC V 31 08 38 28.2–.97 39.13N–.04 29.10E–.04 15–9 24 0-1
ISK V 31 08 38 27.9 39.12N 29.09E 7 2.2L,2.2 **¶16855925**
ISCJB V 31 08 38 28.5–.61 39.13N–.04 29.07E–.05 9–7 2.2L,2.2
DDA V 31 08 38 28.6 39.11N 29.08E 7 2.5,2.2
CSEM V 31 08 38 28.5–.12 39.14N 29.08E 8 2.5,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.9km az=139.9.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=120.0.
DDA V 31 09 24 36.8 39.68N 29.48E 7 2.7
CSEM V 31 09 24 36.8 39.68N 29.48E 7 2.7 **¶601586092**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 31 09 31 08.3–.95 39.10N–.03 29.00E–.04 17–9 32 0-2
ISCJB V 31 09 31 08.8–.60 39.12N–.03 28.97E–.06 8–7 **¶16855926**
DDA V 31 09 31 08.5 39.12N 28.99E 7 2.6
ISK V 31 09 31 08.0 39.10N 28.99E 7 2.4
CSEM V 31 09 31 08.8–.09 39.11N 28.97E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.9km az=23.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=112.0.

ISC V 31 09 35 57.9–.91 39.13N–.03 28.97E–.03 14–8 33 0-1
ISK V 31 09 35 56.2 38.93N 29.35E 13 2.4L **¶16855927**
DDA V 31 09 35 57.8 39.13N 28.99E 7 2.5
ISCJB V 31 09 35 58.1–.59 39.12N–.03 28.98E–.04 7–6 2.5
CSEM V 31 09 35 58.0–.20 39.15N 28.96E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=147.5.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=141.0.
ISC V 31 11 42 47.9–.87 39.12N–.03 29.15E–.04 9 28 0-2
ISK V 31 11 42 47.5 39.11N 29.07E 4 2.2L **¶16855932**
ISCJB V 31 11 42 48.4–.50 39.11N–.03 29.09E–.04 9 2.2L
DDA V 31 11 42 48.1 39.13N 29.09E 7 2.8
CSEM V 31 11 42 48.4–.14 39.11N 29.09E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=43.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=87.0.
ISC V 31 11 47 56.1–.84 40.67N–.03 26.54E–.02 13–5 44 0-2
ISK V 31 11 47 55.6 40.69N 26.58E 12 2.3 **¶16855933**
ISCJB V 31 11 47 56.2–.45 40.64N–.03 26.55E–.04 12–3 2.3
CSEM V 31 11 47 56.2–.15 40.67N 26.56E 12 2.3
DDA V 31 11 47 56.6 40.61N 26.52E 7 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=173.7.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=10.0.
DDA Event type ke.
ISC V 31 12 37 28.4–1.1 38.31N–.09 31.84E–.04 11 18 0-2
ISCJB V 31 12 37 28.6–.83 38.3N–.10 31.81E–.04 11 **¶16855935**
CSEM V 31 12 37 29.9 38.20N 31.91E 22 2.4
ISK V 31 12 37 29.9 38.20N 31.91E 22 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=5.1km az=179.7.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 31 12 48 10.3–1.0 39.05N–.02 29.07E–.02 11–8 46 0-2
ISCJB V 31 12 48 10.9–.49 39.10N–.03 29.04E–.03 2–7 **¶16855936**
DDA V 31 12 48 10.5 39.10N 29.00E 7 2.9
ISK V 31 12 48 10.6 39.09N 29.05E 8 2.6L
CSEM V 31 12 48 11.1–.12 39.10N 29.03E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=170.6.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=67.0.
ISC V 31 13 16 00.7–1.2 38.77N–.04 40.32E–.03 5–12 24 0-1
ISK V 31 13 15 56.1 39.00N 40.62E 4 2.6 **¶16855937**
CSEM V 31 13 16 00.9–.36 38.78N 40.34E 5 2.6
DDA V 31 13 16 01.5 38.84N 40.38E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.2km az=26.0.
ISC V 31 14 06 45.2–.83 39.02N–.03 29.12E–.03 9 28 0-2
ISK V 31 14 06 44.9 39.00N 29.27E 7 2.1 **¶16855940**
DDA V 31 14 06 45.8 39.08N 29.06E 7 2.7
ISCJB V 31 14 06 46.2–.54 39.08N–.04 29.07E–.04 9 2.7
CSEM V 31 14 06 46.1–.19 39.10N 29.07E 2 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=151.7.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=115.0.
ISC V 31 14 07 34.1–.90 39.11N–.03 28.97E–.02 16–8 45 0-2
ISK V 31 14 07 33.6 39.10N 28.99E 6 2.5L,2.5 **¶16855943**
CSEM V 31 14 07 34.4–.13 39.11N 28.96E 5 2.8,2.5
DDA V 31 14 07 34.3 39.09N 28.97E 8 2.8,2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=26.0.
DDA Event type ke.
ISC V 31 14 26 04.1–.94 39.11N–.04 29.00E–.03 9 26 0-2
ISK V 31 14 26 03.4 39.10N 29.00E 5 2.3 **¶16855944**
DDA V 31 14 26 03.9 39.09N 29.00E 7 2.6
ISCJB V 31 14 26 04.1–.55 39.09N–.04 29.00E–.05 9 2.6
CSEM V 31 14 26 04.1–.10 39.11N 28.98E 5 2.3
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.0km az=145.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=135.0.
ISC V 31 14 47 00.5–.86 39.06N–.03 29.07E–.03 9 28 0-2
ISCJB V 31 14 47 01.0–.52 39.11N–.04 29.02E–.04 9 **¶16855947**
ISK V 31 14 47 00.3 39.09N 29.07E 9 2.5
DDA V 31 14 47 01.0 39.11N 29.01E 7 2.2
CSEM V 31 14 47 01.1–.10 39.11N 29.01E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.0km az=139.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=110.0.
ISC V 31 15 12 30.1–.96 39.07N–.03 29.06E–.03 9–10 32 0-2
ISCJB V 31 15 12 29.9–.59 39.08N–.04 29.05E–.04 3–9 **¶16855949**
DDA V 31 15 12 29.8 39.08N 29.04E 7 2.5
ISK V 31 15 12 29.3 39.05N 29.13E 5 2.6
CSEM V 31 15 12 30.0–.10 39.10N 29.05E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=149.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=110.0.
ISC V 31 15 32 39.4–.99 39.10N–.02 29.06E–.03 8–12 44 0-2
ISK V 31 15 32 38.6 39.09N 29.09E 8 2.8 **¶16855952**
DDA V 31 15 32 38.8 39.13N 29.06E 7 2.6
ISCJB V 31 15 32 39.0–.48 39.10N–.03 29.07E–.04 5–7 2.6
CSEM V 31 15 32 39.2–.06 39.10N 29.07E 5 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=140.7.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=123.0.
ISC V 31 17 17 58.5–.91 39.12N–.02 29.02E–.02 12–9 49 0-2
ISCJB V 31 17 17 58.5–.56 39.12N–.03 29.02E–.04 1–8 **¶16855955**
DDA V 31 17 17 58.3 39.11N 29.01E 7 2.8L
CSEM V 31 17 17 58.8–.11 39.12N 29.04E 2 2.8L
ISK V 31 17 17 58.2 39.09N 29.08E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=150.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=132.0.
ISC V 31 17 19 55.0–.97 39.10N–.03 29.04E–.02 9–10 46 0-2
DDA V 31 17 19 54.6 39.10N 29.03E 7 2.6L **¶16855956**
ISK V 31 17 19 54.4 39.10N 29.06E 5 2.6
CSEM V 31 17 19 55.0–.13 39.14N 29.04E 0–1 2.6L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=165.0.
ISC V 31 17 25 07.0–.94 39.08N–.03 29.04E–.03 10–10 34 0-2
ISCJB V 31 17 25 06.9–.58 39.09N–.04 29.03E–.04 3–9 **¶16855957**
ISK V 31 17 25 06.3 39.05N 29.09E 6 2.7
DDA V 31 17 25 06.9 39.08N 29.03E 7 2.4L
CSEM V 31 17 25 07.0–.09 39.10N 29.02E 3–1 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=151.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=141.0.
ISC V 31 18 44 53.5–.86 39.12N–.04 28.99E–.03 9 41 0-2
ISCJB V 31 18 44 53.9–.48 39.12N–.04 28.98E–.04 9 **¶16855963**
DDA V 31 18 44 53.9 39.13N 29.00E 7 2.6L
ISK V 31 18 44 53.3 39.10N 29.04E 10 2.2
CSEM V 31 18 44 54.0–.12 39.11N 28.98E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=157.8.

DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=154.0.
DDA V 31 19 41 19.4 39.08N 29.11E 7 2.1L
ISK V 31 19 41 18.0 39.02N 29.24E 5 1.9 ¶16855964
CSEM V 31 19 41 19.6–.13 39.11N 29.11E 2 2.1L
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=118.0.
ISC V 31 19 47 20.9–1.1 40.03N–.02 38.80E–.02 5–10 64 0-3
DDA V 31 19 47 20.7 40.01N 38.81E 4 3.1L ¶16855965
ISK V 31 19 47 20.8 40.06N 38.84E 5 2.8
CSEM V 31 19 47 21.2–.18 40.04N 38.82E 2 3.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.6km az=6.0.
DDA V 31 19 49 29.8 39.77N 38.95E 9 2.6
¶602862445
DDA Event type ke.
ISC V 31 20 14 07.7–1.1 39.06N–.04 29.07E–.03 9–13 26 0-2
ISK V 31 20 14 07.4 39.04N 29.16E 10 2.5 ¶16855967
ISCJB V 31 20 14 08.2–.70 39.12N–.05 29.02E–.05 1–11 2.5
DDA V 31 20 14 08.0 39.11N 29.02E 7 2.2L
CSEM V 31 20 14 08.3–.09 39.12N 29.02E 2 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.7km az=153.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.8km az=136.0.
DDA V 31 20 21 24.0 39.11N 29.00E 7 2.1L
CSEM V 31 20 21 23.7–.21 39.13N 28.98E 10 2.1L ¶16855968
ISK V 31 20 21 23.0 39.11N 29.02E 9 2.4
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.8km az=88.0.
ISC V 31 21 27 00.1–.95 39.14N–.02 29.00E–.02 9–10 149 0-7
ISCJB V 31 21 26 59.8–.44 39.15N–.02 28.99E–.02 7–4 ¶16855969
ISK V 31 21 26 59.6 39.14N 29.01E 9 3.1L
DDA V 31 21 26 59.5 39.14N 29.00E 14 3.5L
CSEM V 31 21 27 00.1–.05 39.14N 29.00E 8 3.5L
THE V 31 21 27 09.0 39.04N 28.03E 0–5 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=171.0.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=1.3km az=30.0.
THE Event type ke. Error ellipse: s-maj=6.0km s-min=2.5km az=71.0.
ISC VI 01 00 00 13.9–.94 39.14N–.03 29.12E–.03 15–10 28 0-1
ISCJB VI 01 00 00 14.0–.56 39.13N–.04 29.12E–.04 10–6 ¶17555275
CSEM VI 01 00 00 13.9–.13 39.14N 29.12E 10 2.6
ISK VI 01 00 00 13.1 39.16N 29.08E 6 2.5
DDA VI 01 00 00 14.2 39.10N 29.15E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.5km az=138.6.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=124.0.
DDA Event type ke.
ISC VI 01 00 28 43.7–.99 39.14N–.03 29.05E–.03 9 22 0-1
ISK VI 01 00 28 43.2 39.12N 29.07E 5 2.5 ¶17555276
ISCJB VI 01 00 28 44.1–.59 39.12N–.04 29.09E–.05 9 2.5
DDA VI 01 00 28 44.3 39.13N 29.09E 7 1.7L
CSEM VI 01 00 28 44.1–.15 39.12N 29.09E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=146.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=123.0.
ISC VI 01 00 58 36.2–.00 39.11N–.03 29.12E–.03 9–9 41 0-2
ISK VI 01 00 58 35.6 39.11N 29.15E 7 2.8 ¶17555278
ISCJB VI 01 00 58 36.1–.56 39.11N–.04 29.12E–.04 7–7 2.8
DDA VI 01 00 58 36.0 39.11N 29.11E 7 2.6L
CSEM VI 01 00 58 36.2–.13 39.10N 29.14E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.0km az=160.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.9km az=2.0.
DDA VI 01 01 07 05.2 39.03N 40.34E 7 2.4
¶602862451
DDA Event type ke.
ISC VI 01 01 23 27.0–.91 39.10N–.03 29.11E–.02 12–8 38 0-2
ISCJB VI 01 01 23 26.8–.54 39.11N–.03 29.10E–.04 7–5 ¶17555280
DDA VI 01 01 23 26.9 39.10N 29.11E 7 2.3L
CSEM VI 01 01 23 26.8–.08 39.11N 29.10E 8 2.3L
ISK VI 01 01 23 26.0 39.10N 29.12E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=145.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=118.0.
ISC VI 01 01 40 45.6–1.0 39.14N–.03 29.09E–.02 7–12 37 0-2
ISCJB VI 01 01 40 45.3–.60 39.14N–.05 29.08E–.04 6–6 ¶17555281
DDA VI 01 01 40 45.4 39.10N 29.10E 7 2.4L
CSEM VI 01 01 40 45.3–.10 39.13N 29.09E 6–1 2.4L
ISK VI 01 01 40 45.3 39.18N 29.07E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.7km az=175.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=178.0.
ISC VI 01 02 08 57.6–.98 39.12N–.03 28.98E–.03 18–5 30 0-1
ISK VI 01 02 08 56.8 39.11N 28.99E 13 2.5 ¶17555282
ISCJB VI 01 02 08 57.6–.56 39.13N–.04 28.97E–.04 10–5 2.5
DDA VI 01 02 08 57.6 39.13N 29.01E 7 2.8
CSEM VI 01 02 08 57.6–.09 39.13N 28.96E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.8km az=137.8.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=113.0.
ISC VI 01 02 23 40.0–.99 39.09N–.03 29.03E–.03 9–10 33 0-1
ISCJB VI 01 02 23 39.8–.59 39.09N–.04 29.02E–.04 3–9 ¶17555283
DDA VI 01 02 23 39.6 39.10N 29.02E 7 2.7
ISK VI 01 02 23 39.2 39.05N 29.10E 8 2.7
CSEM VI 01 02 23 40.0–.09 39.09N 29.02E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.7km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=117.0.
ISC VI 01 02 32 57.1–.89 39.14N–.03 28.98E–.03 17–7 35 0-1
DDA VI 01 02 32 56.6 39.16N 28.96E 7 2.4 ¶17555284
ISK VI 01 02 32 56.7 39.12N 28.99E 8 2.6
ISCJB VI 01 02 32 57.3–.52 39.13N–.03 28.98E–.04 9–5 2.6
CSEM VI 01 02 32 57.4–.10 39.13N 28.97E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=44.1.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=85.0.
ISC VI 01 02 39 41.6–.92 39.11N–.03 29.11E–.03 13–8 34 0-1
ISK VI 01 02 39 40.8 39.09N 29.14E 5 2.2 ¶17555286
ISCJB VI 01 02 39 41.5–.53 39.10N–.03 29.10E–.04 8–5 2.2
DDA VI 01 02 39 41.4 39.13N 29.13E 7 2.8
CSEM VI 01 02 39 41.6–.12 39.11N 29.10E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=135.6.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=121.0.
ISC VI 01 02 47 24.0–.95 39.09N–.03 29.05E–.03 10–10 28 0-1
ISK VI 01 02 47 22.8 39.06N 29.12E 5 2.5 ¶17555288
ISCJB VI 01 02 47 23.7–.62 39.10N–.04 29.04E–.04 2–10 2.5
DDA VI 01 02 47 23.7 39.08N 29.04E 7 2.7
CSEM VI 01 02 47 23.8–.14 39.11N 29.03E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=152.4.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=124.0.
ISC VI 01 02 52 30.1–.92 39.12N–.03 29.14E–.03 12–8 36 0-2
ISCJB VI 01 02 52 29.9–.53 39.12N–.03 29.13E–.04 9–5 ¶17555289
CSEM VI 01 02 52 29.9–.07 39.12N 29.14E 10 2.7
ISK VI 01 02 52 29.2 39.13N 29.14E 9 2.6
DDA VI 01 02 52 30.0 39.11N 29.14E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=135.8.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=117.0.
ISC VI 01 03 10 11.9–.91 39.09N–.03 28.83E–.02 7–7 38 0-1
ISCJB VI 01 03 10 11.7–.48 39.08N–.03 28.83E–.03 6–5 ¶17555291
DDA VI 01 03 10 11.6 39.09N 28.84E 7 2.5
CSEM VI 01 03 10 11.7–.11 39.09N 28.83E 5 2.5
ISK VI 01 03 10 11.1 39.09N 28.83E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=160.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=159.0.
ISC VI 01 03 20 28.7–1.1 39.12N–.03 29.10E–.03 7–13 28 0-1
ISK VI 01 03 20 27.1 39.11N 29.09E 5 2.5 ¶17555293
ISCJB VI 01 03 20 28.2–.56 39.10N–.03 29.11E–.04 9–5 2.5
DDA VI 01 03 20 28.7 39.08N 29.12E 7 2.6
CSEM VI 01 03 20 28.2–.14 39.11N 29.11E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=104.0.
ISC VI 01 03 30 50.0–1.0 39.10N–.05 29.05E–.03 9 18 0-1
ISCJB VI 01 03 30 51.1–.73 39.11N–.05 29.05E–.05 9 ¶601586147
CSEM VI 01 03 30 51.0–.26 39.11N 29.03E 10 2.5
DDA VI 01 03 30 51.5 39.07N 29.07E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=155.3.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=137.0.
ISC VI 01 03 49 28.5–.91 39.11N–.02 29.00E–.02 11–8 57 0-2
ISK VI 01 03 49 27.7 39.10N 28.99E 8 2.7 ¶17555294
DDA VI 01 03 49 28.1 39.14N 29.02E 7 2.8
CSEM VI 01 03 49 28.5–.14 39.12N 29.00E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=130.0.
ISC VI 01 03 57 50.2–.92 39.11N–.03 28.98E–.03 11–9 32 0-1
ISCJB VI 01 03 57 49.9–.52 39.11N–.03 28.99E–.04 7–6 ¶17555295
DDA VI 01 03 57 49.8 39.11N 28.99E 7 2.3
ISK VI 01 03 57 49.3 39.10N 29.00E 6 2.5
CSEM VI 01 03 57 50.1–.08 39.11N 28.98E 8 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=27.7.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=95.0.
ISC VI 01 04 02 24.5–1.1 39.09N–.02 29.04E–.02 6–10 47 0-2
ISK VI 01 04 02 23.5 39.06N 29.10E 8 2.8 ¶17555296
ISCJB VI 01 04 02 24.2–.59 39.09N–.03 29.03E–.04 3–6 2.8
CSEM VI 01 04 02 24.4–.15 39.09N 29.03E 5 2.8L
DDA VI 01 04 02 24.5 39.10N 29.04E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=41.1.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=125.0.
ISC VI 01 04 32 16.7–1.1 39.11N–.04 29.07E–.03 9 18 0-1
ISCJB VI 01 04 32 16.4–.73 39.12N–.05 29.06E–.05 9 ¶601586148
DDA VI 01 04 32 16.4 39.08N 29.07E 7 2.5
CSEM VI 01 04 32 16.5–.16 39.12N 29.05E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=154.6.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=136.0.
ISC VI 01 05 07 15.1–.96 39.11N–.03 29.03E–.03 9–9 42 0-2
ISCJB VI 01 05 07 14.9–.58 39.10N–.04 29.02E–.04 3–8 ¶17555297
ISK VI 01 05 07 14.3 39.07N 29.07E 5 2.8
DDA VI 01 05 07 14.5 39.11N 29.03E 7 2.5
CSEM VI 01 05 07 15.0–.08 39.11N 29.03E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=154.4.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=115.0.
ISC VI 01 05 23 07.9–.96 39.14N–.03 29.00E–.03 10–9 42 0-2
ISCJB VI 01 05 23 07.6–.64 39.14N–.04 29.00E–.04 2–8 ¶17555298
DDA VI 01 05 23 07.5 39.14N 29.01E 7 2.4
CSEM VI 01 05 23 07.9–.17 39.15N 28.98E 5 2.4
ISK VI 01 05 23 07.0 39.10N 29.08E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=157.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=118.0.
ISC VI 01 06 15 35.0–.95 39.14N–.03 29.14E–.03 12–8 34 0-1
ISK VI 01 06 15 33.7 39.13N 29.11E 6 2.5 ¶17555300
ISCJB VI 01 06 15 34.8–.60 39.13N–.03 29.12E–.04 9–5 2.5
CSEM VI 01 06 15 34.6–.11 39.13N 29.13E 10 2.6
DDA VI 01 06 15 35.0 39.14N 29.13E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=5.1km az=151.1.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=105.0.
ISC VI 01 06 34 30.6–1.2 39.17N–.03 29.14E–.03 4–14 23 0-1
ISK VI 01 06 34 30.7 39.18N 29.01E 6 2.4 ¶17555301
ISCJB VI 01 06 34 31.5–.60 39.14N–.03 29.10E–.05 12–5 2.4
CSEM VI 01 06 34 31.6–.13 39.14N 29.09E 12 2.5
DDA VI 01 06 34 32.2 39.12N 29.09E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.0km az=40.6.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=114.0.
ISC VI 01 09 10 58.3–.89 39.10N–.02 29.13E–.02 14–8 50 0-2
ISK VI 01 09 10 57.5 39.10N 29.12E 6 2.7 ¶17555305
ISCJB VI 01 09 10 58.0–.45 39.10N–.03 29.12E–.03 6–5 2.7
DDA VI 01 09 10 58.0 39.11N 29.13E 7 2.9
CSEM VI 01 09 10 58.2–.09 39.10N 29.12E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=136.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=83.0.
DDA VI 01 09 25 57.5 39.11N 29.02E 7 2.9
CSEM VI 01 09 25 57.5 39.11N 29.02E 7 2.9 ¶601586176
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 01 09 50 30.5–1.5 37.26N–.03 31.79E–.06 6–12 22 1-2
CSEM VI 01 09 50 31.7–.39 37.28N 31.86E 2 3.1 ¶601586178
DDA VI 01 09 51 17.9 37.21N 31.69E 10 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=6.5km az=82.0.
DDA Event type ke.
ISC VI 01 10 00 13.4–1.1 38.37N–.03 28.11E–.03 10–9 32 0-2
ISCJB VI 01 10 00 13.2–.64 38.37N–.03 28.13E–.04 6–6 ¶17555306
DDA VI 01 10 00 13.5 38.37N 28.12E 7 2.6
CSEM VI 01 10 00 13.5–.11 38.37N 28.13E 8 2.5
ISK VI 01 10 00 13.9 38.52N 28.19E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=40.3.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=113.0.
ISC VI 01 10 08 52.5–.89 39.09N–.02 29.05E–.03 15–8 38 0-1
ISK VI 01 10 08 51.9 39.07N 29.09E 6 2.7 ¶17555307
ISCJB VI 01 10 08 52.5–.51 39.10N–.03 29.04E–.04 5–7 2.7
DDA VI 01 10 08 52.1 39.13N 29.04E 7 2.7
CSEM VI 01 10 08 52.6–.14 39.10N 29.05E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=143.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=102.0.
ISC VI 01 10 09 37.2–.90 39.13N–.02 28.99E–.02 13–8 50 0-1
ISK VI 01 10 09 36.8 39.13N 29.02E 7 2.7 ¶17555310
DDA VI 01 10 09 36.8 39.17N 28.98E 7 2.8
ISCJB VI 01 10 09 37.1–.48 39.13N–.03 28.99E–.03 4–6 2.8
CSEM VI 01 10 09 37.3–.07 39.13N 29.00E 5 2.8
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=175.5.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=48.0.
ISC VI 01 10 29 35.9–1.0 39.14N–.02 28.99E–.02 6–12 58 0-2
ISCJB VI 01 10 29 35.4–.49 39.15N–.03 28.99E–.03 1–6 ¶17555311
DDA VI 01 10 29 35.3 39.14N 29.00E 7 2.9L
CSEM VI 01 10 29 35.9–.08 39.14N 28.99E 5 2.9L
ISK VI 01 10 29 35.4 39.15N 28.98E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=167.1.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=28.0.
ISK VI 01 10 40 05.5 39.10N 29.08E 5 2.4
¶17555312
ISC VI 01 10 53 41.1–.96 39.13N–.02 29.08E–.02 9–10 60 0-2
ISCJB VI 01 10 53 40.6–.48 39.13N–.03 29.07E–.03 2–6 ¶17555313
CSEM VI 01 10 53 40.9–.06 39.13N 29.08E 5 3.0L
ISK VI 01 10 53 40.3 39.11N 29.08E 5 2.7L
DDA VI 01 10 53 40.8 39.12N 29.08E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=156.2.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=136.0.
ISC VI 01 13 24 36.7–1.6 39.81N–.04 32.38E–.04 4–13 25 0-1
ISK VI 01 13 24 36.6 39.85N 32.35E 8 2.5 ¶17555319
CSEM VI 01 13 24 37.6–.29 39.83N 32.37E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=174.0.
ISC VI 01 13 40 50.9–1.1 38.80N–.04 35.80E–.04 4–8 26 0-2
CSEM VI 01 13 40 50.8–.23 38.78N 35.81E 2 2.7 ¶17555320
ISK VI 01 13 40 50.5 38.81N 35.77E 6 2.7
ISCJB VI 01 13 40 51.1–1.1 38.79N–.03 35.79E–.07 2–8 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC VI 01 13 44 04.1–1.2 39.90N–.03 33.09E–.03 3–12 29 0-2
ISK VI 01 13 44 03.3 39.90N 33.08E 8 2.5 ¶17555321
DDA VI 01 13 44 04.8 39.89N 33.15E 7 2.8
CSEM VI 01 13 44 04.1–.27 39.89N 33.08E 10 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.5km az=42.0.
ISC VI 01 13 55 34.5–1.0 39.13N–.02 29.00E–.02 5–9 148 0-3
ISK VI 01 13 55 33.6 39.12N 29.00E 5 3.5L ¶17555322
DDA VI 01 13 55 33.8 39.14N 29.03E 2 3.7L
ISCJB VI 01 13 55 34.4–.45 39.12N–.02 29.01E–.02 1–4 3.7L
CSEM VI 01 13 55 34.7–.11 39.11N 29.01E 2 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.0km az=139.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=115.0.
ISC VI 01 14 57 07.5–.98 39.09N–.03 29.05E–.03 9–9 34 0-1
ISK VI 01 14 57 06.8 39.10N 28.98E 6 2.6 ¶17555324
DDA VI 01 14 57 07.0 39.08N 29.05E 7 2.6
ISCJB VI 01 14 57 07.3–.59 39.08N–.04 29.05E–.04 5–8 2.6
CSEM VI 01 14 57 07.4–.13 39.10N 29.06E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.0km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=117.0.
ISC VI 01 15 00 05.1–.94 39.09N–.03 29.03E–.03 11–9 26 0-1
ISK VI 01 15 00 03.7 39.10N 29.01E 5 2.6 ¶17555325
ISCJB VI 01 15 00 04.8–.63 39.11N–.04 29.03E–.04 6–6 2.6
CSEM VI 01 15 00 04.7–.18 39.11N 29.00E 5 2.5
DDA VI 01 15 00 04.7 39.10N 29.03E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=158.9.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=102.0.
ISC VI 01 16 06 45.8–1.0 39.09N–.03 29.11E–.03 9–9 28 0-1
ISK VI 01 16 06 44.4 39.08N 29.15E 6 2.5 ¶17555328
ISCJB VI 01 16 06 45.6–.61 39.11N–.04 29.10E–.04 3–9 2.5
CSEM VI 01 16 06 45.8–.22 39.13N 29.08E 2 2.6
DDA VI 01 16 06 45.7 39.08N 29.11E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=150.7.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=124.0.
ISC VI 01 17 03 54.1–.95 39.11N–.03 29.04E–.03 10–9 30 0-1
ISK VI 01 17 03 52.9 39.17N 28.77E 8 2.6 ¶17555329
ISCJB VI 01 17 03 54.0–.65 39.10N–.03 29.03E–.04 6–7 2.6
CSEM VI 01 17 03 53.9–.23 39.13N 29.01E 8 2.5
DDA VI 01 17 03 53.6 39.11N 29.06E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.5km az=136.2.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.3km az=115.0.
DDA VI 01 17 19 22.4 39.06N 29.07E 7 2.3
¶602862505
ISC VI 01 18 29 28.9–1.1 39.14N–.03 28.98E–.03 6–10 27 0-1
ISCJB VI 01 18 29 28.7–.71 39.14N–.05 28.98E–.05 2–9 ¶17555334
DDA VI 01 18 29 28.8 39.12N 28.98E 7 2.4L
ISK VI 01 18 29 28.0 39.06N 29.12E 5 2.5
CSEM VI 01 18 29 28.8–.16 39.15N 28.97E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.7km az=145.4.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=128.0.
ISC VI 01 18 32 48.2–.96 37.32N–.03 36.56E–.03 13–7 31 0-2
ISCJB VI 01 18 32 47.8–.66 37.36N–.04 36.58E–.04 3–8 ¶17555335
CSEM VI 01 18 32 47.8–.43 37.32N 36.53E 5 2.7
ISK VI 01 18 32 47.1 37.28N 36.58E 8 2.6
DDA VI 01 18 32 48.4 37.35N 36.60E 3 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.8km az=20.6.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=8.9km az=14.0.
ISC VI 01 18 45 20.9–.98 39.09N–.03 29.04E–.03 8–9 36 0-2
ISK VI 01 18 45 19.8 39.06N 29.08E 5 2.5 ¶17555336
ISCJB VI 01 18 45 20.7–.61 39.09N–.04 29.03E–.04 2–7 2.5
DDA VI 01 18 45 20.6 39.09N 29.04E 7 2.6
CSEM VI 01 18 45 20.8–.15 39.09N 29.01E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.4km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=126.0.
ISC VI 01 19 11 27.2–.96 39.14N–.02 29.08E–.02 9–9 56 0-2
ISCJB VI 01 19 11 26.9–.57 39.14N–.03 29.07E–.03 2–8 ¶17555337
ISK VI 01 19 11 26.5 39.13N 29.10E 7 2.8
CSEM VI 01 19 11 27.1–.09 39.15N 29.07E 5 2.8
DDA VI 01 19 11 27.1 39.11N 29.08E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=151.1.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=123.0.
ISC VI 01 19 38 07.4–.93 39.07N–.03 29.11E–.03 12–8 32 0-2
ISK VI 01 19 38 06.6 39.01N 29.22E 11 2.6 ¶17555339
ISCJB VI 01 19 38 07.3–.60 39.09N–.04 29.09E–.04 5–10 2.6
CSEM VI 01 19 38 07.3–.24 39.07N 29.11E 5 2.7
DDA VI 01 19 38 07.1 39.12N 29.10E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=168.6.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.9km az=110.0.
ISC VI 01 19 55 22.9–.91 38.14N–.03 27.24E–.03 17–7 31 0-2
ISCJB VI 01 19 55 23.3–.54 38.13N–.03 27.20E–.03 8–9 ¶17555340
DDA VI 01 19 55 23.3 38.12N 27.18E 7 2.7
CSEM VI 01 19 55 23.5–.17 38.13N 27.22E 8 2.6
ISK VI 01 19 55 23.0 38.14N 27.22E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.8km az=40.0.
ISC VI 01 20 20 36.8–1.1 39.12N–.02 29.06E–.02 4–10 65 0-2
DDA VI 01 20 20 36.4 39.13N 29.03E 5 3.1L ¶17555341
CSEM VI 01 20 20 36.9–.11 39.12N 29.06E 2 3.1L
ISK VI 01 20 20 36.4 39.10N 29.10E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=97.0.
ISC VI 01 21 37 54.7–1.2 39.98N–.05 38.90E–.03 9–13 26 0-1
ISK VI 01 21 37 54.3 40.00N 38.92E 5 2.7 ¶17555343
DDA VI 01 21 37 55.6 40.01N 38.83E 8 2.6
CSEM VI 01 21 37 55.2–.25 40.01N 38.88E 15 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=161.0.
ISC VI 01 21 51 36.2–1.0 39.10N–.02 29.03E–.02 6–9 43 0-2
ISK VI 01 21 51 34.9 39.03N 29.14E 9 2.7 ¶602862523
ISCJB VI 01 21 51 35.9–.64 39.11N–.04 29.01E–.04 1–8 2.7
CSEM VI 01 21 51 36.2–.16 39.11N 29.01E 5 2.8
DDA VI 01 21 51 36.2 39.12N 29.05E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=152.8.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=129.0.
ISC VI 02 00 00 57.9–.97 39.14N–.03 29.07E–.02 9–9 61 0-2
ISCJB VI 02 00 00 57.4–.52 39.14N–.03 29.06E–.03 1–6 ¶17555346
CSEM VI 02 00 00 57.7–.08 39.13N 29.07E 5 3.0L
ISK VI 02 00 00 57.0 39.13N 29.06E 5 2.8
DDA VI 02 00 00 57.6 39.14N 29.08E 7 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=162.5.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=151.0.
ISC VI 02 00 27 45.7–1.0 39.10N–.03 29.02E–.02 7–10 49 0-2
ISK VI 02 00 27 44.8 39.10N 29.01E 3 2.7 ¶17555347
DDA VI 02 00 27 45.3 39.10N 29.04E 7 2.9L
CSEM VI 02 00 27 45.5–.09 39.11N 29.02E 2 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=166.0.
ISC VI 02 01 18 37.7–.81 39.07N–.02 29.03E–.03 9 52 0-3
ISCJB VI 02 01 18 37.9–.40 39.05N–.03 29.01E–.04 9 ¶602862550
DDA VI 02 01 18 37.5 39.10N 29.02E 5 2.9L
ISK VI 02 01 18 37.5 39.05N 28.99E 8 2.8
CSEM VI 02 01 18 37.9–.10 39.06N 29.01E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=174.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=84.0.
DDA VI 02 04 35 29.5 39.15N 29.07E 7 3.0L
CSEM VI 02 04 35 29.5 39.15N 29.07E 7 3.0L ¶602728818
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 02 04 35 39.3–1.1 39.14N–.02 29.01E–.02 6–10 114 0-3
ISK VI 02 04 35 37.8 39.11N 29.06E 12 3.4L ¶17555349
ISCJB VI 02 04 35 38.4–.50 39.11N–.02 29.08E–.04 12–4 3.4L
DDA VI 02 04 35 41.4 39.14N 29.02E 7 3.6L
CSEM VI 02 04 35 41.4 39.14N 29.02E 7 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=170.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 02 05 57 52.2–.97 39.15N–.03 29.08E–.03 10–9 34 0-1
DDA VI 02 05 57 51.8 39.15N 29.08E 7 2.9 ¶17555351
ISK VI 02 05 57 51.3 39.11N 29.13E 8 2.5
ISCJB VI 02 05 57 52.0–.61 39.14N–.04 29.07E–.04 5–7 2.5
CSEM VI 02 05 57 52.0–.15 39.15N 29.08E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=5.1km az=151.8.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=117.0.
ISC VI 02 06 20 13.3–.94 39.10N–.03 29.02E–.03 16–8 35 0-1
ISK VI 02 06 20 12.7 39.10N 29.01E 6 2.6 ¶17555352
ISCJB VI 02 06 20 13.2–.49 39.09N–.03 29.02E–.04 9–5 2.6
CSEM VI 02 06 20 13.3–.13 39.09N 29.01E 10 2.7
DDA VI 02 06 20 13.2 39.10N 29.03E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=41.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=97.0.
DDA Event type ke.
ISC VI 02 06 32 42.4–.91 39.13N–.02 28.98E–.03 12–9 42 0-2
DDA VI 02 06 32 42.0 39.16N 28.97E 7 2.8 ¶17555356
ISK VI 02 06 32 41.3 39.11N 29.01E 5 2.6
ISCJB VI 02 06 32 42.1–.52 39.13N–.03 28.98E–.04 5–6 2.6
CSEM VI 02 06 32 42.2–.11 39.12N 28.96E 8 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=30.3.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=101.0.
ISC VI 02 07 37 02.6–.95 39.10N–.03 29.06E–.02 10–8 45 0-2
ISK VI 02 07 37 01.6 39.10N 29.06E 8 2.8 ¶17555357
ISCJB VI 02 07 37 02.2–.52 39.10N–.03 29.07E–.04 2–7 2.8
DDA VI 02 07 37 02.3 39.10N 29.08E 7 2.9
CSEM VI 02 07 37 02.3–.07 39.10N 29.06E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=146.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=111.0.
ISC VI 02 07 46 51.4–.90 39.12N–.02 29.01E–.02 13–8 51 0-2
ISCJB VI 02 07 46 50.8–.48 39.12N–.03 29.02E–.04 6–5 ¶17555358
DDA VI 02 07 46 50.9 39.11N 29.06E 7 2.9
CSEM VI 02 07 46 50.9–.17 39.12N 28.98E 10 2.9
ISK VI 02 07 46 50.3 39.14N 28.88E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=14.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=80.0.
ISC VI 02 08 02 27.1–.92 39.10N–.04 29.05E–.03 14–8 28 0-1
ISCJB VI 02 08 02 26.9–.56 39.11N–.03 29.05E–.04 9–6 ¶17555359
CSEM VI 02 08 02 26.9–.09 39.11N 29.04E 8 2.6
ISK VI 02 08 02 26.1 39.08N 29.11E 10 2.5
DDA VI 02 08 02 27.1 39.08N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.9km az=137.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=106.0.
ISC VI 02 09 31 38.6–.98 39.13N–.02 29.02E–.02 7–9 78 0-2
DDA VI 02 09 31 38.4 39.15N 28.99E 7 2.8L ¶17555365
ISK VI 02 09 31 38.1 39.12N 29.02E 5 2.8
CSEM VI 02 09 31 38.6–.08 39.14N 29.01E 2 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=156.0.
ISC VI 02 11 27 27.6–.92 39.09N–.03 29.06E–.02 15–8 48 0-2
ISK VI 02 11 27 26.8 39.08N 29.07E 18 2.7 ¶17555367
ISCJB VI 02 11 27 27.7–.44 39.11N–.03 29.04E–.04 13–4 2.7
CSEM VI 02 11 27 27.8–.20 39.11N 29.04E 15 2.6
DDA VI 02 11 27 28.4 39.08N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.3km az=135.0.
DDA Event type ke.
ISC VI 02 13 17 00.9–.96 39.08N–.03 29.09E–.02 12–9 46 0-2
ISCJB VI 02 13 17 00.9–.47 39.10N–.03 29.06E–.03 8–5 ¶17555368
ISK VI 02 13 17 00.3 39.08N 29.09E 14 2.7
DDA VI 02 13 17 01.6 39.09N 29.05E 7 2.7
CSEM VI 02 13 17 01.1–.14 39.10N 29.07E 12 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.4km az=161.8.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=91.0.
ISC VI 02 14 15 36.8–.92 38.90N–.03 27.76E–.03 13–5 36 0-1
ISK VI 02 14 15 35.8 38.90N 27.74E 7 2.5 ¶17555370
ISCJB VI 02 14 15 36.5–.48 38.92N–.03 27.76E–.04 8–4 2.5

CSEM VI 02 14 15 36.6–.16 38.90N 27.76E 8 2.4
DDA VI 02 14 15 37.7 38.86N 27.84E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=136.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=144.0.
ISC VI 02 15 08 14.7–1.0 40.00N–.02 28.07E–.02 8–9 50 0-2
ISCJB VI 02 15 08 14.2–.58 39.99N–.03 28.08E–.04 2–6 ¶17555371
DDA VI 02 15 08 14.1 39.96N 28.06E 5 2.4
ISK VI 02 15 08 14.2 40.00N 28.06E 8 2.6
CSEM VI 02 15 08 14.6–.10 39.99N 28.08E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.4km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=158.0.
ISC VI 02 17 13 43.5–.92 39.11N–.02 29.07E–.02 10–9 60 0-2
ISK VI 02 17 13 42.5 39.10N 29.07E 5 2.8 ¶17555373
DDA VI 02 17 13 43.0 39.13N 29.08E 7 2.7
CSEM VI 02 17 13 43.3–.08 39.11N 29.08E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=132.0.
ISC VI 02 18 35 18.9–.91 37.05N–.03 35.64E–.02 27–5 45 0-1
DDA VI 02 18 35 18.4 36.96N 35.65E 7 2.9 ¶17555376
ISCJB VI 02 18 35 19.6–.40 37.02N–.03 35.63E–.03 25–4 2.9
CSEM VI 02 18 35 19.4–.14 37.02N 35.62E 22–1 2.9
ISK VI 02 18 35 19.1 37.06N 35.55E 18 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=22.6.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=29.0.
ISC VI 02 19 06 50.7–.95 39.08N–.02 29.12E–.02 11–9 57 0-2
ISK VI 02 19 06 49.5 39.06N 29.12E 5 2.8 ¶17555377
ISCJB VI 02 19 06 50.7–.59 39.09N–.03 29.13E–.03 1–7 2.8
DDA VI 02 19 06 50.3 39.11N 29.11E 7 2.9
CSEM VI 02 19 06 51.0–.12 39.08N 29.14E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=159.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=101.0.
ISC VI 02 19 26 00.7–1.1 39.07N–.02 29.11E–.02 5–9 72 0-2
ISCJB VI 02 19 26 00.9–.53 39.09N–.03 29.07E–.03 3–5 ¶17555378
DDA VI 02 19 26 00.5 39.11N 29.06E 7 2.9
ISK VI 02 19 26 00.4 39.06N 29.12E 5 2.8
CSEM VI 02 19 26 01.0–.10 39.09N 29.08E 2 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=156.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=149.0.
DDA VI 02 20 21 04.7 39.08N 28.99E 7 2.8
CSEM VI 02 20 21 04.7 39.08N 28.99E 7 2.8 ¶601586351
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 02 20 53 18.3–.97 38.37N–.01 28.10E–.01 8–8 216 0-41
IDC VI 02 20 53 17.0–1.6 38.38N 28.19E 0 3.6b,3.4 ¶16856134
ATH VI 02 20 53 17.5 38.38N 28.04E 16–2 2.9L,3.4
ISK VI 02 20 53 17.3 38.36N 28.06E 5 3.3L,3.4
ISCJB VI 02 20 53 18.1–.43 38.39N–.01 28.09E–.02 6–3 3.5b,3.4
THE VI 02 20 53 18.1 38.35N 28.14E 7–2 3.2L,3.4
CSEM VI 02 20 53 18.3–.11 38.37N 28.08E 2 3.3L,3.4
DDA VI 02 20 53 18.1 38.39N 28.12E 13 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=25.8km s-min=19.5km az=21.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.1km az=242.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=170.6.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.6km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=77.0.
ISC VI 02 21 37 40.8–.89 39.14N–.02 28.98E–.02 11–7 104 0-2
DDA VI 02 21 37 40.3 39.14N 28.98E 14 3.2 ¶17555382
ISK VI 02 21 37 40.8 39.14N 28.98E 6 2.9
CSEM VI 02 21 37 41.5–.13 39.13N 29.00E 10 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=166.0.
ISC VI 02 23 12 53.5–.85 37.51N–.02 35.61E–.02 12–6 113 0-3
ISK VI 02 23 12 52.4 37.58N 35.60E 3 3.4L ¶17555383
DDA VI 02 23 12 52.5 37.59N 35.62E 18 3.6L
CSEM VI 02 23 12 53.2–.14 37.57N 35.63E 2 3.4L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.5km az=37.0.
ISC VI 02 23 34 50.6–.82 39.09N–.02 29.07E–.02 9 49 0-2
ISK VI 02 23 34 49.8 39.08N 29.09E 6 2.8 ¶17555384
ISCJB VI 02 23 34 50.6–.40 39.09N–.03 29.07E–.04 9 2.8
CSEM VI 02 23 34 50.7–.12 39.09N 29.07E 8 2.8L
DDA VI 02 23 34 50.6 39.10N 29.05E 7 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=14.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=105.0.
DDA Event type ke.
ISC VI 03 02 58 59.7–1.3 38.37N–.03 28.10E–.05 10 13 0-1
ISCJB VI 03 02 58 59.6–.88 38.37N–.04 28.1E–.10 10 ¶601586388
DDA VI 03 02 58 59.7 38.37N 28.15E 7 2.6
CSEM VI 03 02 58 59.4–.11 38.35N 28.12E 15 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.1km az=3.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=101.0.
ISC VI 03 03 32 06.3–.98 37.53N–.10 42.59E–.03 10–7 28 0-2
ISCJB VI 03 03 32 05.8–1.0 37.62N–.09 42.59E–.03 6–9 ¶17555385
DDA VI 03 03 32 05.5 37.38N 42.58E 6 3.0
CSEM VI 03 03 32 05.8–.22 37.57N 42.59E 8 2.9
ISK VI 03 03 32 05.0 37.63N 42.59E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=4.5km az=178.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=3.9km az=5.0.
ISC VI 03 03 59 20.1–.97 39.10N–.02 29.02E–.02 8–9 50 0-2
ISCJB VI 03 03 59 19.5–.47 39.10N–.03 29.03E–.03 1–7 ¶17555386
DDA VI 03 03 59 19.8 39.07N 29.03E 7 2.8
CSEM VI 03 03 59 19.8–.09 39.10N 29.03E 5 2.8
ISK VI 03 03 59 19.1 39.09N 29.01E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.9km az=164.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=142.0.
ISC VI 03 06 53 13.0–.95 39.04N–.03 39.74E–.02 13–7 32 0-1
ISK VI 03 06 53 11.9 39.02N 39.79E 13 2.5 ¶17555389
ISCJB VI 03 06 53 12.8–.49 39.03N–.04 39.77E–.03 8–6 2.5
CSEM VI 03 06 53 12.9–.23 39.05N 39.73E 8 2.5
DDA VI 03 06 53 13.1 39.02N 39.74E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=168.6.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.0km az=162.0.
ISC VI 03 07 05 08.1–1.0 39.08N–.02 29.06E–.02 9–9 56 0-2
DDA VI 03 07 05 07.7 39.10N 29.03E 7 2.8 ¶17555390
ISK VI 03 07 05 07.8 39.08N 29.09E 5 2.8
ISCJB VI 03 07 05 08.1–.52 39.09N–.03 29.04E–.03 2–6 2.8
CSEM VI 03 07 05 08.5–.09 39.08N 29.05E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=151.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=125.0.
ISC VI 03 07 22 30.3–.92 36.90N–.03 29.66E–.02 11–8 41 0-2
ISK VI 03 07 22 29.5 36.88N 29.65E 11 2.4 ¶17555391
ISCJB VI 03 07 22 30.5–.51 36.86N–.03 29.63E–.04 6–6 2.4
DDA VI 03 07 22 30.6 36.89N 29.57E 7 2.9
CSEM VI 03 07 22 30.4–.23 36.88N 29.65E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.9km az=27.1.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=45.0.
ISC VI 03 07 33 39.9–.95 39.09N–.02 29.09E–.03 12–10 42 0-2
ISCJB VI 03 07 33 39.7–.65 39.09N–.04 29.08E–.04 2–10 ¶601586395
DDA VI 03 07 33 39.5 39.13N 29.09E 7 2.7
ISK VI 03 07 33 39.4 39.07N 29.04E 6 2.8
CSEM VI 03 07 33 40.0–.10 39.10N 29.08E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.0km az=10.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=92.0.
ISC VI 03 08 17 46.2–.93 40.85N–.03 31.71E–.02 17–6 61 0-16
ISK VI 03 08 17 45.4 40.83N 31.78E 5 2.6 ¶17555393
CSEM VI 03 08 17 46.5–.16 40.82N 31.73E 5 2.6
DDA VI 03 08 17 46.2 40.84N 31.70E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=154.0.
ISC VI 03 08 43 51.0–1.2 38.71N–.04 29.30E–.04 13–13 26 0-2
ISCJB VI 03 08 43 50.9–.89 38.70N–.04 29.29E–.07 4–6 ¶17555394
DDA VI 03 08 43 50.7 38.73N 29.30E 7 2.6
ISK VI 03 08 43 51.2 38.73N 29.25E 7 2.7
CSEM VI 03 08 43 51.1–.15 38.70N 29.30E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=7.0km az=23.5.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=107.0.
DDA VI 03 09 13 24.9 37.12N 27.62E 7 2.6
¶603482747
ISC VI 03 09 44 33.2–.93 40.51N–.04 37.28E–.03 10–7 34 0-2
ISCJB VI 03 09 44 33.8–.67 40.50N–.05 37.28E–.04 9–6 ¶17555395
DDA VI 03 09 44 33.3 40.52N 37.26E 26 2.8L
CSEM VI 03 09 44 33.8–.14 40.49N 37.28E 10 2.6
ISK VI 03 09 44 33.3 40.50N 37.29E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=10.4.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=156.0.
ISC VI 03 09 46 04.9–.96 38.72N–.03 39.30E–.05 14–9 26 0-1
ISK VI 03 09 46 02.8 38.70N 39.50E 25 2.4 ¶17555396
ISCJB VI 03 09 46 04.9–.82 38.71N–.04 39.33E–.09 13–8 2.4
DDA VI 03 09 46 04.6 38.73N 39.33E 7 2.6
CSEM VI 03 09 46 04.7–.32 38.72N 39.29E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=4.8km az=21.7.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=5.2km az=101.0.
ISC VI 03 10 08 49.7–.88 39.12N–.02 28.99E–.02 13–7 46 0-2
ISCJB VI 03 10 08 49.4–.47 39.12N–.03 28.99E–.03 4–6 ¶17555397
CSEM VI 03 10 08 49.6–.06 39.12N 28.99E 8 2.4
ISK VI 03 10 08 49.0 39.12N 28.99E 5 2.7
DDA VI 03 10 08 49.1 39.13N 28.99E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.1km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=106.0.
DDA VI 03 10 16 32.8 37.98N 35.54E 7 2.7
¶602862637
ISC VI 03 10 18 20.8–1.1 38.36N–.02 28.09E–.02 5–9 131 0-3
DDA VI 03 10 18 20.2 38.38N 28.12E 10 3.1 ¶16882767
ISK VI 03 10 18 20.6 38.45N 28.07E 2 3.1L
ISCJB VI 03 10 18 20.8–.52 38.40N–.02 28.07E–.02 2–4 3.1L
CSEM VI 03 10 18 21.2–.14 38.41N 28.07E 2 3.1L
THE VI 03 10 18 21.9 38.31N 28.12E 0–1 3.1L
ATH VI 03 10 18 28.1 38.44N 27.11E 24–3 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=3.1km az=153.3.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=42.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=76.0.
ATH Event type ke. Error ellipse: s-maj=8.5km s-min=2.0km az=255.0.
ISC VI 03 10 56 34.4–.97 39.14N–.02 29.01E–.02 8–10 66 0-2
DDA VI 03 10 56 34.0 39.12N 28.99E 7 3.3 ¶602862638
ISK VI 03 10 56 33.1 39.13N 29.03E 5 2.9
ISCJB VI 03 10 56 34.0–.49 39.12N–.03 29.01E–.03 1–5 2.9
CSEM VI 03 10 56 34.5–.10 39.12N 29.02E 2 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=58.0.
ISC VI 03 11 50 38.6–1.3 41.00N–.03 31.18E–.02 15–12 40 0-1
ISCJB VI 03 11 50 38.9–.52 41.00N–.03 31.19E–.04 14–4 ¶17555403
CSEM VI 03 11 50 38.8–.09 41.00N 31.20E 15 2.6
ISK VI 03 11 50 38.3 41.00N 31.16E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=146.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=149.0.
ISC VI 03 12 09 17.2–1.4 37.14N–.04 37.06E–.04 2–11 21 0-1
ISK VI 03 12 09 15.0 37.03N 37.31E 10 2.6 ¶17555406
ISCJB VI 03 12 09 16.7–.93 37.06N–.05 37.14E–.06 6–5 2.6
CSEM VI 03 12 09 17.5–.29 37.29N 36.71E 10 2.8
DDA VI 03 12 09 17.3 37.14N 37.10E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.7km az=136.7.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=6.1km az=111.0.
DDA Event type ke.
ISC VI 03 13 02 04.1–1.3 37.32N–.04 31.89E–.04 0–13 30 1-2
ISK VI 03 13 02 04.9 37.40N 31.86E 5 2.7 ¶17555407
CSEM VI 03 13 02 04.4–.28 37.27N 31.94E 2 2.7
DDA VI 03 13 02 28.6 37.25N 31.91E 15 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.0km az=77.0.
DDA Event type ke.
ISC VI 03 13 04 23.6–1.0 38.35N–.02 28.15E–.03 8–10 36 0-2
ISCJB VI 03 13 04 23.6–.58 38.36N–.03 28.12E–.04 4–6 ¶17555408
DDA VI 03 13 04 23.5 38.39N 28.12E 7 2.7
CSEM VI 03 13 04 23.9–.19 38.36N 28.14E 8 2.7
ISK VI 03 13 04 23.1 38.37N 28.16E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.7km az=150.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=101.0.
ISC VI 03 13 28 59.3–1.0 39.13N–.03 29.01E–.02 6–12 52 0-2
ISK VI 03 13 28 58.3 39.12N 29.02E 2 2.8 ¶17555410
DDA VI 03 13 28 58.7 39.10N 29.01E 7 2.9
ISCJB VI 03 13 28 59.0–.46 39.11N–.03 29.03E–.03 4–6 2.9
CSEM VI 03 13 28 59.3–.08 39.12N 29.02E 5 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=3.4.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=48.0.
ISC VI 03 13 32 22.4–.91 39.14N–.03 29.14E–.03 14–8 30 0-1
ISK VI 03 13 32 21.5 39.17N 29.07E 6 2.6 ¶17555411
ISCJB VI 03 13 32 22.2–.53 39.14N–.03 29.13E–.04 11–5 2.6
CSEM VI 03 13 32 22.2–.13 39.15N 29.13E 10 2.7
DDA VI 03 13 32 22.5 39.11N 29.14E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=40.3.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=108.0.
DDA Event type ke.
ISC VI 03 14 03 21.4–2.5 37.2N–.20 28.1E–.30 13–9 17 0-1
ISCJB VI 03 14 03 19.7–2.0 37.08N–.09 28.0E–.10 14–7 ¶17555412
DDA VI 03 14 03 21.3 37.19N 28.05E 6 2.6L
CSEM VI 03 14 03 21.2–.78 37.18N 28.10E 10 2.5
ISK VI 03 14 03 21.2 37.27N 28.37E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=5.5km az=142.7.

CSEM Event type ke. Error ellipse: s-maj=33.1km s-min=4.6km az=52.0.
ISC VI 03 14 07 36.1–.92 41.39N–.03 35.88E–.02 18–6 50 0-3
ISK VI 03 14 07 34.7 41.44N 35.97E 10 2.5 ¶17555413
DDA VI 03 14 07 35.0 41.40N 35.87E 24 2.8L
CSEM VI 03 14 07 36.0–.23 41.39N 35.87E 8 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=21.0.
ISC VI 03 14 45 40.1–1.2 39.17N–.05 29.08E–.05 9 7 0-1
ISCJB VI 03 14 45 40.1–.98 39.19N–.06 29.02E–.06 9 ¶17555414
DDA VI 03 14 45 41.0 39.09N 29.03E 7 2.6L
ISK VI 03 14 45 49.4 40.30N 29.92E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.3km az=0.2.
ISC VI 03 15 00 38.7–.93 39.13N–.03 29.08E–.03 14–9 24 0-1
ISCJB VI 03 15 00 38.6–.60 39.13N–.03 29.08E–.05 9–6 ¶17555416
CSEM VI 03 15 00 38.6–.10 39.13N 29.07E 8 2.6L
ISK VI 03 15 00 38.0 39.09N 29.15E 11 2.4
DDA VI 03 15 00 38.8 39.11N 29.08E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.3km az=40.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=116.0.
ISC VI 03 16 28 23.2–1.0 39.12N–.02 29.08E–.02 3–9 85 0-2
DDA VI 03 16 28 22.7 39.10N 29.08E 8 3.3L ¶17555417
CSEM VI 03 16 28 23.2–.12 39.11N 29.08E 0–1 3.3L
ISK VI 03 16 28 23.0 39.12N 29.08E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=171.0.
ISC VI 03 16 38 15.9–.95 39.15N–.02 29.12E–.02 9–8 183 0-8
ATH VI 03 16 38 13.2 39.32N 29.25E 10–31 3.4L ¶17555418
DDA VI 03 16 38 15.3 39.12N 29.13E 7 3.9L
ISK VI 03 16 38 15.5 39.14N 29.13E 5 3.7L
CSEM VI 03 16 38 16.7–.13 39.15N 29.15E 2 3.9L
SOF VI 03 16 38 21.9 39.68N 28.83E 2 3.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=2.3km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=105.0.
ISC VI 03 16 46 12.9–.89 39.10N–.02 29.13E–.02 13–8 46 0-2
ISCJB VI 03 16 46 12.8–.48 39.10N–.03 29.12E–.04 6–5 ¶17555419
DDA VI 03 16 46 12.5 39.11N 29.12E 7 2.9L
ISK VI 03 16 46 12.1 39.08N 29.18E 6 2.6
CSEM VI 03 16 46 13.0–.11 39.09N 29.13E 8 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=117.0.
ISC VI 03 16 51 35.0–.94 39.12N–.03 29.03E–.03 15–8 32 0-1
ISK VI 03 16 51 33.9 39.13N 29.00E 8 2.5 ¶17555420
ISCJB VI 03 16 51 35.0–.55 39.11N–.03 29.02E–.04 8–6 2.5
CSEM VI 03 16 51 34.8–.13 39.12N 29.00E 10 2.6L
DDA VI 03 16 51 35.0 39.12N 29.03E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=42.5.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=120.0.
ISC VI 03 17 57 41.3–.95 39.00N–.03 35.84E–.03 10–7 39 0-2
ISK VI 03 17 57 40.6 39.02N 35.86E 7 2.8 ¶17555421
ISCJB VI 03 17 57 41.3–.51 38.99N–.03 35.82E–.03 5–6 2.8
DDA VI 03 17 57 41.0 39.01N 35.82E 7 2.6L
CSEM VI 03 17 57 41.1–.21 39.01N 35.84E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=15.3.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=23.0.
ISC VI 03 18 26 19.5–1.0 39.12N–.02 29.04E–.02 5–9 53 0-2
ISK VI 03 18 26 18.8 39.12N 29.03E 5 2.8 ¶17555422
ISCJB VI 03 18 26 19.3–.45 39.11N–.02 29.03E–.03 2–5 2.8
CSEM VI 03 18 26 19.6–.07 39.11N 29.04E 5 3.4L
DDA VI 03 18 26 19.1 39.11N 29.02E 7 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=171.5.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=164.0.
ISC VI 03 21 31 00.5–.94 39.10N–.02 29.01E–.02 10–8 36 0-1
ISK VI 03 21 30 59.7 39.09N 29.06E 10 2.6 ¶17555424
ISCJB VI 03 21 31 00.2–.55 39.11N–.03 29.00E–.04 3–7 2.6
DDA VI 03 21 31 00.0 39.13N 28.99E 7 2.8L
CSEM VI 03 21 31 00.3–.14 39.10N 28.99E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=154.7.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=98.0.
ISC VI 03 23 02 28.5–.99 39.10N–.02 29.07E–.02 8–9 66 0-2
DDA VI 03 23 02 27.8 39.10N 29.08E 7 3.2L ¶17555426
ISK VI 03 23 02 27.9 39.10N 29.10E 4 2.9
ISCJB VI 03 23 02 28.1–.54 39.11N–.03 29.08E–.03 0–6 2.9
CSEM VI 03 23 02 28.4–.10 39.11N 29.09E 2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=32.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=126.0.
ISC VI 04 00 54 33.1–.91 39.10N–.02 29.09E–.02 12–9 36 0-2
ISCJB VI 04 00 54 32.9–.52 39.10N–.03 29.09E–.04 7–6 ¶17555428
DDA VI 04 00 54 32.9 39.10N 29.09E 7 2.7L
ISK VI 04 00 54 32.2 39.09N 29.11E 5 2.7
CSEM VI 04 00 54 32.9–.12 39.10N 29.08E 6–1 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=36.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=120.0.
ISC VI 04 04 22 34.2–.93 39.12N–.03 29.08E–.02 14–8 38 0-1
ISCJB VI 04 04 22 33.9–.47 39.12N–.03 29.07E–.03 5–6 ¶17555431
DDA VI 04 04 22 33.8 39.13N 29.08E 12 2.8L
ISK VI 04 04 22 33.4 39.12N 29.07E 6 2.6
CSEM VI 04 04 22 34.1–.08 39.12N 29.08E 6–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.5km az=159.9.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=79.0.
ISC VI 04 08 48 54.2–.98 37.30N–.06 28.29E–.07 12 20 0-1
ISK VI 04 08 48 53.9 37.30N 28.22E 8 2.5 ¶17555436
ISCJB VI 04 08 48 54.4–.67 37.28N–.06 28.2E–.10 12 2.5
CSEM VI 04 08 48 54.6–.29 37.26N 28.21E 12 2.5
DDA VI 04 08 48 54.9 37.22N 28.16E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=4.0km az=144.5.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=5.1km az=52.0.
ISC VI 04 09 19 03.5–.91 39.10N–.02 29.01E–.02 10–8 60 0-2
ISCJB VI 04 09 19 03.0–.45 39.10N–.02 29.01E–.03 2–6 ¶17555439
ISK VI 04 09 19 02.7 39.11N 28.99E 6 2.9
CSEM VI 04 09 19 03.3–.08 39.11N 29.00E 5 2.9
DDA VI 04 09 19 03.1 39.09N 29.01E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=142.8.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=117.0.
ISC VI 04 10 20 09.0–.90 39.11N–.02 29.01E–.03 12–9 44 0-2
ISCJB VI 04 10 20 08.8–.56 39.12N–.03 29.01E–.04 4–7 ¶17555442
DDA VI 04 10 20 08.5 39.11N 29.02E 7 2.9
ISK VI 04 10 20 08.5 39.09N 29.07E 8 2.7
CSEM VI 04 10 20 09.0–.09 39.11N 29.01E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=149.8.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=104.0.
ISC VI 04 12 17 57.3–.92 37.43N–.03 28.07E–.03 14–9 28 0-1
ISK VI 04 12 17 56.9 37.43N 28.08E 8 2.5 ¶17555445
ISCJB VI 04 12 17 57.1–.55 37.41N–.03 28.05E–.06 11–6 2.5
CSEM VI 04 12 17 57.3–.08 37.43N 28.07E 10 2.5
DDA VI 04 12 17 57.0 37.43N 28.08E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.6km az=153.5.

CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=51.0.
ISC VI 04 12 47 15.2–.92 38.93N–.02 27.94E–.02 7–7 69 0-2
ISCJB VI 04 12 47 14.8–.55 38.95N–.02 27.94E–.03 1–5 ¶17555447
ISK VI 04 12 47 14.7 38.93N 27.94E 7 2.9
CSEM VI 04 12 47 15.2–.08 38.92N 27.94E 8 2.9
DDA VI 04 12 47 15.0 38.92N 27.96E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=138.0.
ISC VI 04 13 07 19.6–.98 37.23N–.04 28.19E–.03 8–9 28 0-1
DDA VI 04 13 07 19.6 37.23N 28.21E 7 2.6 ¶17555449
ISK VI 04 13 07 19.3 37.24N 28.18E 5 2.6
CSEM VI 04 13 07 19.9–.20 37.26N 28.19E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.2km az=38.0.
ISC VI 04 13 11 44.4–.93 38.87N–.03 27.87E–.03 4–6 25 0-2
ISK VI 04 13 11 44.4 38.87N 27.88E 5 2.7 ¶17555451
CSEM VI 04 13 11 45.6–.24 38.88N 27.85E 2 2.7
DDA VI 04 13 11 45.7 38.88N 27.82E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=5.3km az=53.0.
ISC VI 04 13 46 53.4–.93 39.11N–.02 29.08E–.02 11–9 54 0-2
DDA VI 04 13 46 52.9 39.10N 29.08E 7 3.0 ¶17555452
ISCJB VI 04 13 46 53.2–.57 39.11N–.03 29.08E–.04 1–7 3.0
CSEM VI 04 13 46 53.5–.10 39.10N 29.09E 2 3.0
ISK VI 04 13 46 53.1 39.09N 29.10E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=146.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=95.0.
ISC VI 04 13 51 06.9–.94 39.13N–.02 29.10E–.01 9–7 3.9b,2.8s 331 0-73
MOS VI 04 13 51 05.6–.90 39.18N 29.15E 9 4.2b,2.8s ¶16722605
DDA VI 04 13 51 06.1 39.11N 29.10E 16 4.1L,2.8s
CSEM VI 04 13 51 06.7–.07 39.12N 29.11E 5 4.1L,2.8s
IDC VI 04 13 51 06.2–.87 39.21N 29.17E 0 3.9,3.8
NEIC VI 04 13 51 06.0 39.13N 29.09E 5 4.2L,3.8
ISCJB VI 04 13 51 06.0–.37 39.15N–.01 29.09E–.02 7–3 3.8b,2.9s
ISK VI 04 13 51 06.1 39.12N 29.10E 5 4.2L,2.9s
THE VI 04 13 51 08.0 39.07N 28.97E 2–2 4.1L,2.9s
ISC Event type ke.
MOS Error ellipse: s-maj=8.2km s-min=3.9km az=101.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=25.0.
IDC Error ellipse: s-maj=16.5km s-min=12.0km az=14.0.
NEIC Event type se. After ISK.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=28.7.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=126.0.
ISC VI 04 14 10 51.3–.92 39.11N–.03 29.07E–.03 13–9 31 0-1
ISK VI 04 14 10 50.7 39.10N 29.05E 5 2.6 ¶17555453
ISCJB VI 04 14 10 51.3–.60 39.11N–.04 29.06E–.04 4–9 2.6
CSEM VI 04 14 10 51.5–.16 39.13N 29.05E 5 2.6
DDA VI 04 14 10 51.0 39.08N 29.09E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=164.7.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=130.0.
ISC VI 04 14 41 09.2–.82 39.04N–.02 26.83E–.02 9–5 78 0-2
ATH VI 04 14 41 08.7 39.06N 26.85E 12–6 2.2L ¶17555455
ISK VI 04 14 41 08.8 39.05N 26.82E 8 2.8
ISCJB VI 04 14 41 09.1–.37 39.03N–.02 26.83E–.03 6–3 2.8
DDA VI 04 14 41 09.2 39.04N 26.84E 7 2.7
CSEM VI 04 14 41 09.4–.15 39.04N 26.83E 8 2.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.1km s-min=1.7km az=250.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=68.0.
ISC VI 04 14 44 22.0–.95 37.25N–.03 28.23E–.03 7–8 28 0-1
ISK VI 04 14 44 21.6 37.24N 28.22E 5 2.5 ¶17555456
DDA VI 04 14 44 23.4 37.25N 28.16E 7 2.6
CSEM VI 04 14 44 23.0–.28 37.22N 28.19E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=35.0.
ISC VI 04 14 52 06.3–1.0 37.23N–.03 28.21E–.03 7–9 23 0-1
ISCJB VI 04 14 52 05.8–.60 37.24N–.04 28.20E–.06 10–7 ¶17555457
DDA VI 04 14 52 05.9 37.24N 28.19E 7 2.6
ISK VI 04 14 52 05.2 37.22N 28.16E 5 2.5
CSEM VI 04 14 52 06.3–.17 37.25N 28.20E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.5km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.9km az=49.0.
ISC VI 04 15 36 16.9–1.0 39.12N–.04 28.98E–.03 12–8 26 0-1
ISCJB VI 04 15 36 16.7–.58 39.12N–.04 28.98E–.04 10–5 ¶17555458
DDA VI 04 15 36 16.8 39.08N 28.99E 7 2.6
ISK VI 04 15 36 16.4 39.13N 28.97E 12 2.7
CSEM VI 04 15 36 16.7–.06 39.12N 28.97E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.5km az=154.6.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.2km az=97.0.
ISC VI 04 16 09 11.8–.88 39.25N–.03 28.93E–.03 9 34 0-2
ISCJB VI 04 16 09 11.4–.48 39.24N–.04 28.93E–.04 9 ¶17555460
ISK VI 04 16 09 11.2 39.25N 28.93E 6 2.7
CSEM VI 04 16 09 11.5–.12 39.24N 28.93E 8 2.6
DDA VI 04 16 09 12.2 39.15N 28.96E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.4km az=175.8.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=163.0.
ISC VI 04 16 13 29.6–.96 39.12N–.04 29.11E–.04 14–10 24 0-1
ISCJB VI 04 16 13 29.8–.63 39.13N–.04 29.07E–.05 13–5 ¶17555461
CSEM VI 04 16 13 29.5–.17 39.13N 29.06E 14–1 2.5
ISK VI 04 16 13 29.0 39.19N 28.99E 10 2.6
DDA VI 04 16 13 30.1 39.08N 29.08E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.7km az=42.8.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=129.0.
ISC VI 04 17 13 40.7–1.1 39.17N–.03 29.04E–.04 9–11 30 0-1
ISK VI 04 17 13 39.7 39.20N 28.99E 5 2.5 ¶17555463
CSEM VI 04 17 13 40.9–.22 39.16N 29.08E 10 2.5
ISCJB VI 04 17 13 41.1–.57 39.15N–.04 29.09E–.05 10–5 2.5
DDA VI 04 17 13 41.4 39.15N 29.11E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.8km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=43.7.
ISC VI 04 17 14 37.7–.94 39.13N–.03 29.00E–.03 15–9 28 0-1
ISK VI 04 17 14 35.8 39.10N 29.05E 5 2.6 ¶17555466
ISCJB VI 04 17 14 37.6–.60 39.13N–.04 29.01E–.05 7–6 2.6
DDA VI 04 17 14 37.6 39.13N 29.01E 7 2.6
CSEM VI 04 17 14 37.5–.20 39.14N 28.99E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=44.1.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.7km az=115.0.
ISC VI 04 17 23 15.7–1.3 40.06N–.09 41.67E–.04 30–10 22 0-1
ISCJB VI 04 17 23 16.7–1.0 40.04N–.09 41.69E–.05 31–5 ¶17555467
CSEM VI 04 17 23 16.5–.67 39.99N 41.71E 5 2.6
ISK VI 04 17 23 16.3 39.77N 41.70E 3 2.6
DDA VI 04 17 23 18.4 39.92N 41.72E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=5.9km az=176.0.
CSEM Event type ke. Error ellipse: s-maj=19.2km s-min=6.6km az=2.0.
ISC VI 04 17 39 46.4–1.0 39.09N–.02 29.06E–.02 7–10 72 0-2
ISK VI 04 17 39 45.9 39.09N 29.04E 5 2.9 ¶17555469
DDA VI 04 17 39 45.9 39.08N 29.05E 7 2.9
ISCJB VI 04 17 39 46.0–.53 39.09N–.03 29.05E–.03 2–7 2.9
CSEM VI 04 17 39 46.2–.07 39.09N 29.06E 2 2.9

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=10.1.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=152.0.

ISC	**VI**	**04 18 10 42.1–.95**	**39.09N–.02**	**29.11E–.02**	**10–9**		**54**	**0-2**
ISCJB	VI	04 18 10 42.0–.53	39.08N–.03	29.10E–.04	9–5			¶17555470
ISK	VI	04 18 10 41.3	39.09N	29.08E	5	2.8		
DDA	VI	04 18 10 41.9	39.11N	29.13E	7	2.8		
CSEM	VI	04 18 10 42.0–.10	39.08N	29.11E	8	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.7km az=17.9.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=80.0.

ISC	**VI**	**04 18 34 15.1–.96**	**39.09N–.04**	**29.04E–.03**	**9**		**26**	**0-2**
ISCJB	VI	04 18 34 14.9–.55	39.09N–.04	29.04E–.05	9			¶17555471
CSEM	VI	04 18 34 14.8–.15	39.08N	29.04E	10	2.8		
ISK	VI	04 18 34 14.0	39.08N	29.06E	6	2.8		
DDA	VI	04 18 34 15.2	39.10N	29.04E	7	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.0km az=147.4.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=138.0.

ISC	**VI**	**04 18 40 44.5–1.2**	**39.03N–.03**	**41.91E–.03**	**9–10**		**37**	**0-2**
ISK	VI	04 18 40 43.4	39.03N	41.95E	9	2.9		¶17555472
ISCJB	VI	04 18 40 44.1–.92	38.98N–.04	41.95E–.04	1–9	2.9		
CSEM	VI	04 18 40 44.6–.32	39.03N	41.91E	10	3.1		
DDA	VI	04 18 40 45.3	39.01N	41.87E	7	3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.6km az=151.4.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=6.2km az=133.0.

ISC	**VI**	**04 18 52 02.4–.95**	**40.09N–.02**	**34.67E–.02**	**5–8**		**68**	**0-2**
ISK	VI	04 18 52 01.3	40.07N	34.67E	5	3.1		¶17555473
DDA	VI	04 18 52 02.1	40.08N	34.69E	7	3.2		
CSEM	VI	04 18 52 02.1–.12	40.09N	34.67E	5	3.1		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=67.0.

ISC	**VI**	**04 19 26 34.5–.98**	**39.11N–.02**	**28.98E–.02**	**7–9**		**82**	**0-2**
ISK	VI	04 19 26 33.3	39.12N	28.96E	5	2.9		¶17555476
DDA	VI	04 19 26 33.9	39.11N	28.99E	3	3.0		
CSEM	VI	04 19 26 34.5–.10	39.11N	28.98E	2	3.0		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=50.0.

ISC	**VI**	**04 21 01 21.8–.96**	**39.10N–.02**	**29.14E–.02**	**9–9**		**64**	**0-2**
ISCJB	VI	04 21 01 21.4–.54	39.09N–.03	29.13E–.03	2–6			¶17555477
DDA	VI	04 21 01 21.2	39.10N	29.13E	7	2.9		
ISK	VI	04 21 01 21.1	39.09N	29.15E	5	2.9		
CSEM	VI	04 21 01 21.6–.08	39.10N	29.14E	2	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=156.2.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=112.0.

ISC	**VI**	**04 21 43 13.9–.95**	**39.10N–.02**	**29.10E–.02**	**9–9**		**53**	**0-2**
ISCJB	VI	04 21 43 13.6–.49	39.10N–.03	29.10E–.04	3–7			¶17555479
CSEM	VI	04 21 43 13.8–.12	39.11N	29.11E	5	2.9L		
ISK	VI	04 21 43 13.2	39.09N	29.15E	5	2.8		
DDA	VI	04 21 43 13.7	39.12N	29.10E	7	2.9L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=147.1.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=97.0.

ISC	**VI**	**04 21 48 29.7–1.0**	**39.13N–.03**	**29.01E–.02**	**9**		**36**	**0-2**
ISCJB	VI	04 21 48 29.3–.47	39.12N–.04	29.01E–.04	9			¶17555481
CSEM	VI	04 21 48 29.5–.05	39.13N	29.01E	9–0	2.7		
ISK	VI	04 21 48 29.0	39.13N	29.00E	10	2.7		
DDA	VI	04 21 48 29.7	39.09N	29.04E	7	2.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=148.6.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=159.0.

ISC	**VI**	**04 22 15 29.8–.94**	**39.13N–.03**	**29.02E–.02**	**11–9**		**39**	**0-2**
ISK	VI	04 22 15 28.8	39.12N	29.02E	6	2.8		¶17555483
ISCJB	VI	04 22 15 29.5–.51	39.12N–.03	29.01E–.04	6–6	2.8		
DDA	VI	04 22 15 29.4	39.14N	29.01E	7	2.7		
CSEM	VI	04 22 15 29.8–.07	39.13N	29.02E	8	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.5km az=152.2.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=39.0.

ISC	**VI**	**04 22 48 23.5–.88**	**39.11N–.03**	**28.97E–.03**	**16–8**		**38**	**0-2**
ISK	VI	04 22 48 22.2	39.10N	28.98E	10	2.3		¶17555484
ISCJB	VI	04 22 48 23.3–.54	39.12N–.03	28.96E–.04	9–5	2.3		
DDA	VI	04 22 48 23.6	39.10N	28.97E	8	2.6		
CSEM	VI	04 22 48 23.3–.17	39.12N	28.95E	10	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=42.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=109.0.

ISC	**VI**	**05 01 09 56.4–.91**	**39.11N–.03**	**29.11E–.02**	**12–8**		**48**	**0-2**
ISK	VI	05 01 09 55.4	39.11N	29.11E	5	2.9		¶17555485
ISCJB	VI	05 01 09 56.2–.53	39.11N–.03	29.11E–.04	8–5	2.9		
CSEM	VI	05 01 09 56.2–.10	39.11N	29.10E	8	2.9		
DDA	VI	05 01 09 56.4	39.10N	29.12E	7	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.9km az=143.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=71.0.

ISC	**VI**	**05 01 55 01.2–1.1**	**38.73N–.02**	**33.59E–.02**	**1–10**		**106**	**0-3**
ISK	VI	05 01 54 59.9	38.74N	33.60E	5	3.2		¶17555486
DDA	VI	05 01 55 01.0	38.80N	33.67E	7	3.5L		
CSEM	VI	05 01 55 01.2–.13	38.73N	33.60E	2	3.5L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=55.0.

ISC	**VI**	**05 02 05 14.1–.91**	**39.15N–.03**	**29.10E–.03**	**9**		**33**	**0-2**
ISCJB	VI	05 02 05 13.8–.48	39.14N–.03	29.09E–.05	9			¶17555487
DDA	VI	05 02 05 13.9	39.12N	29.10E	7	2.8		
ISK	VI	05 02 05 13.3	39.14N	29.09E	7	2.7		
CSEM	VI	05 02 05 13.9–.07	39.14N	29.09E	8	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=30.2.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=98.0.

ISC	**VI**	**05 02 07 51.3–.85**	**39.10N–.02**	**29.43E–.03**	**10–5**		**60**	**0-2**
DDA	VI	05 02 07 50.7	39.10N	29.44E	12	3.0		¶17555488
ISK	VI	05 02 07 50.5	39.10N	29.42E	6	2.9		
IASPE	VI	05 02 07 51.2–.86	39.11N–.02	29.43E–.03	10–5	2.9		
ISCJB	VI	05 02 07 51.0–.41	39.09N–.02	29.41E–.05	8–4	2.9		
CSEM	VI	05 02 07 51.1–.11	39.10N	29.43E	6–1	2.9		

ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=105.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.9km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=108.0.

ISC	**VI**	**05 02 11 04.2–1.1**	**39.14N–.03**	**28.98E–.03**	**8–10**		**28**	**0-1**
ISK	VI	05 02 11 02.8	39.14N	28.98E	3	2.5		¶17555489
ISCJB	VI	05 02 11 04.0–.64	39.13N–.04	28.99E–.04	8–5	2.5		
CSEM	VI	05 02 11 03.8–.14	39.14N	28.97E	6–1	2.5		
DDA	VI	05 02 11 04.1	39.09N	28.99E	7	2.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.7km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=8.0.

ISC	**VI**	**05 03 06 09.2–.90**	**39.08N–.02**	**29.00E–.02**	**12–9**		**42**	**0-2**
ISK	VI	05 03 06 08.6	39.06N	29.06E	10	2.7		¶17555490
ISCJB	VI	05 03 06 09.3–.53	39.08N–.03	28.99E–.04	5–6	2.7		
CSEM	VI	05 03 06 09.4–.16	39.08N	28.98E	8	2.7		
DDA	VI	05 03 06 09.0	39.13N	28.98E	7	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=148.9.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=99.0.

ISC	**VI**	**05 03 23 56.8–1.0**	**39.12N–.02**	**29.02E–.02**	**7–12**		**62**	**0-2**
ISCJB	VI	05 03 23 56.5–.48	39.12N–.03	29.01E–.04	1–7			¶17555491
DDA	VI	05 03 23 56.5	39.10N	29.03E	7	2.7		
ISK	VI	05 03 23 56.4	39.11N	28.99E	5	2.9		
CSEM	VI	05 03 23 56.8–.09	39.12N	29.00E	2	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.2km az=39.9.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=58.0.

ISC	**VI**	**05 03 47 14.1–.97**	**39.11N–.03**	**29.11E–.02**	**10–10**		**30**	**0-2**
ISCJB	VI	05 03 47 13.9–.61	39.12N–.04	29.11E–.04	2–9			¶17555492
DDA	VI	05 03 47 13.9	39.13N	29.11E	7	2.5		
CSEM	VI	05 03 47 14.1–.14	39.11N	29.10E	5	2.5		
ISK	VI	05 03 47 15.8	39.27N	29.11E	6	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.9km az=4.3.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=39.0.

ISC	**VI**	**05 03 57 39.2–.87**	**39.25N–.03**	**28.91E–.04**	**9**		**30**	**0-1**
ISK	VI	05 03 57 38.4	39.22N	28.96E	11	2.6		¶17555493
DDA	VI	05 03 57 39.0	39.27N	28.90E	7	2.4		
ISCJB	VI	05 03 57 39.1–.56	39.24N–.03	28.89E–.05	9	2.4		
CSEM	VI	05 03 57 39.1–.18	39.25N	28.90E	8	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=17.7.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=99.0.

ISC	**VI**	**05 04 04 04.7–.94**	**39.12N–.02**	**29.03E–.02**	**10–8**		**51**	**0-2**
ISCJB	VI	05 04 04 04.3–.47	39.11N–.03	29.03E–.03	2–7			¶17555494
DDA	VI	05 04 04 04.1	39.11N	29.03E	7	2.8L		
CSEM	VI	05 04 04 04.6–.08	39.12N	29.04E	5	2.8L		
ISK	VI	05 04 04 04.0	39.13N	29.04E	5	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=178.8.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=167.0.

ISC	**VI**	**05 04 17 10.3–1.0**	**39.10N–.02**	**29.07E–.02**	**6–10**		**74**	**0-2**
ISK	VI	05 04 17 09.5	39.08N	29.06E	3	2.9		¶17555495
DDA	VI	05 04 17 09.9	39.10N	29.07E	7	3.0L		
CSEM	VI	05 04 17 10.2–.10	39.10N	29.06E	0–1	3.0L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=174.0.

ISC	**VI**	**05 04 17 50.4–.88**	**39.11N–.03**	**29.08E–.02**	**9**		**38**	**0-2**
DDA	VI	05 04 17 47.2	39.23N	28.85E	7	2.6		¶17555498
ISK	VI	05 04 17 49.9	39.11N	29.09E	6	2.7		
ISCJB	VI	05 04 17 50.4–.48	39.09N–.04	29.07E–.04	9	2.7		
CSEM	VI	05 04 17 50.4–.09	39.10N	29.07E	6–1	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=168.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=136.0.

ISC	**VI**	**05 04 39 02.9–.91**	**39.14N–.02**	**28.98E–.02**	**14–9**		**52**	**0-2**
ISCJB	VI	05 04 39 02.6–.45	39.14N–.03	28.97E–.03	8–5			¶17555499
DDA	VI	05 04 39 02.4	39.13N	28.99E	7	2.7L		
CSEM	VI	05 04 39 02.7–.06	39.14N	28.97E	8	2.7L		
ISK	VI	05 04 39 02.3	39.15N	28.97E	8	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.4km az=26.1.
CSEM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=79.0.

ISC	**VI**	**05 05 05 19.0–.83**	**39.07N–.02**	**29.05E–.02**	**9**		**76**	**0-2**
ISCJB	VI	05 05 05 19.0–.36	39.06N–.03	29.04E–.03	9			¶17555500
DDA	VI	05 05 05 18.1	39.10N	29.05E	7	3.0		
ISK	VI	05 05 05 18.6	39.07N	29.03E	5	3.0		
CSEM	VI	05 05 05 18.8–.07	39.07N	29.05E	2	3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=171.6.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=153.0.

ISC	**VI**	**05 06 15 34.7–.93**	**37.23N–.03**	**28.22E–.03**	**10–7**		**31**	**0-1**
ISCJB	VI	05 06 15 34.8–.51	37.21N–.04	28.19E–.04	12–11			¶17555503
ISK	VI	05 06 15 34.7	37.21N	28.19E	8	2.6		
DDA	VI	05 06 15 34.3	37.23N	28.22E	7	2.6		
CSEM	VI	05 06 15 35.0–.19	37.22N	28.20E	10	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=30.0.

ISC	**VI**	**05 06 38 30.5–.96**	**39.08N–.02**	**29.02E–.02**	**9–8**		**56**	**0-2**
ISCJB	VI	05 06 38 30.5–.48	39.08N–.03	29.03E–.03	3–6			¶17555504
ISK	VI	05 06 38 30.2	39.09N	29.06E	5	2.8		
DDA	VI	05 06 38 30.1	39.10N	29.00E	7	2.6		
CSEM	VI	05 06 38 30.8–.10	39.08N	29.04E	5	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=54.0.

ISC	**VI**	**05 06 56 41.6–1.0**	**39.14N–.02**	**28.98E–.02**	**6–9**		**73**	**0-2**
ISCJB	VI	05 06 56 41.4–.46	39.12N–.03	28.99E–.03	3–5			¶17555505
DDA	VI	05 06 56 41.1	39.15N	28.99E	7	2.8		
ISK	VI	05 06 56 41.3	39.12N	29.00E	5	2.8		
CSEM	VI	05 06 56 41.6–.09	39.12N	29.00E	2	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=177.8.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=179.0.

ISC	**VI**	**05 07 30 26.5–1.0**	**38.36N–.02**	**28.14E–.02**	**6–12**		**50**	**0-2**
ISK	VI	05 07 30 25.8	38.36N	28.14E	6	2.7		¶17555507
ISCJB	VI	05 07 30 26.3–.52	38.38N–.03	28.13E–.04	4–6	2.7		
DDA	VI	05 07 30 26.5	38.38N	28.13E	7	2.8		
CSEM	VI	05 07 30 26.7–.12	38.37N	28.12E	8	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.1km az=23.8.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=114.0.

ISC	**VI**	**05 08 56 59.8–.86**	**37.01N–.03**	**39.27E–.03**	**10**		**24**	**1-2**
NSSC	VI	05 08 56 59.6–1.7	36.77N	38.69E	50–68	2.1L		¶601586501
CSEM	VI	05 08 57 00.2	37.03N	39.25E	7	3.3		
DDA	VI	05 08 57 00.2	37.03N	39.25E	7	3.3		
ISCJB	VI	05 08 57 01.7–.56	37.02N–.04	39.28E–.04	10	3.3		

ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.

ISC	**VI**	**05 12 26 56.6–.96**	**39.10N–.03**	**29.03E–.03**	**10–8**		**34**	**0-1**
DDA	VI	05 12 26 55.9	39.11N	29.03E	7	2.6		¶17555517
ISCJB	VI	05 12 26 56.6–.56	39.09N–.03	29.02E–.04	7–6	2.6		
CSEM	VI	05 12 26 56.7–.14	39.10N	29.03E	5	2.6		
ISK	VI	05 12 26 56.0	39.05N	29.08E	10	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=40.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=120.0.

ISC	**VI**	**05 12 47 52.6–.95**	**37.22N–.03**	**28.20E–.03**	**6–9**		**37**	**0-3**
ISK	VI	05 12 47 51.6	37.23N	28.18E	2	2.8		¶17555519
DDA	VI	05 12 47 52.2	37.23N	28.20E	7	2.8		
CSEM	VI	05 12 47 52.7–.15	37.23N	28.20E	2	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=35.0.

ISC	**VI**	**05 12 50 57.3–.90**	**39.13N–.02**	**29.02E–.02**	**13–9**		**46**	**0-1**
DDA	VI	05 12 50 56.6	39.16N	29.00E	7	2.7		¶17555520
ISK	VI	05 12 50 56.8	39.13N	29.01E	6	2.7		
ISCJB	VI	05 12 50 57.1–.48	39.13N–.03	29.02E–.03	5–6	2.7		
CSEM	VI	05 12 50 57.4–.11	39.13N	29.02E	5	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=118.0.

ISC	**VI**	**05 13 39 55.1–.93**	**39.13N–.03**	**29.14E–.03**	**11–8**		**38**	**0-2**
ISCJB	VI	05 13 39 54.8–.52	39.12N–.03	29.13E–.04	6–6			¶17555521
CSEM	VI	05 13 39 54.9–.10	39.12N	29.14E	5	2.5		
ISK	VI	05 13 39 54.2	39.11N	29.15E	5	2.6		
DDA	VI	05 13 39 54.6	39.13N	29.14E	7	2.5		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=28.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=112.0.
ISC VI 05 13 45 20.7–.84 40.37N–.02 27.11E–.02 13–6 78 0-2
ISCJB VI 05 13 45 20.4–.33 40.38N–.03 27.11E–.02 8–3 ¶17555522
DDA VI 05 13 45 20.5 40.37N 27.14E 4 2.7
CSEM VI 05 13 45 20.7–.06 40.38N 27.11E 10 2.7
ISK VI 05 13 45 20.1 40.38N 27.11E 9 2.7
ATH VI 05 13 45 21.0 40.36N 27.02E 23–2 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=174.6.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=173.0.
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=1.5km az=63.0.
ISC VI 05 13 46 47.8–1.1 39.14N–.04 29.00E–.04 26–10 24 0-1
ISK VI 05 13 46 46.4 39.18N 28.91E 9 2.4 ¶17555523
ISCJB VI 05 13 46 48.0–.70 39.14N–.04 29.01E–.05 22–9 2.4
CSEM VI 05 13 46 47.6–.35 39.17N 28.98E 10 2.5
DDA VI 05 13 46 49.5 39.04N 29.02E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.9km az=137.8.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=6.5km az=121.0.
ISC VI 05 14 09 31.0–.99 39.09N–.04 29.07E–.03 12–8 22 0-1
ISCJB VI 05 14 09 30.9–.61 39.10N–.05 29.06E–.05 8–8 ¶17555525
CSEM VI 05 14 09 30.7–.14 39.10N 29.05E 10 2.6
ISK VI 05 14 09 30.1 39.08N 29.10E 8 2.6
DDA VI 05 14 09 30.9 39.08N 29.07E 7 2.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.0km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=133.0.
ISC VI 05 14 11 25.0–1.1 39.42N–.03 39.98E–.02 7–10 35 0-2
DDA VI 05 14 11 24.6 39.44N 40.01E 7 2.7 ¶17555526
ISK VI 05 14 11 24.0 39.44N 39.97E 22 2.5
ISCJB VI 05 14 11 25.3–.55 39.41N–.03 40.01E–.04 1–8 2.5
CSEM VI 05 14 11 25.2–.37 39.40N 40.00E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=6.8km az=11.0.
ISC VI 05 14 36 58.7–.87 39.12N–.03 28.96E–.03 16–7 38 0-2
ISCJB VI 05 14 36 58.5–.48 39.14N–.03 28.95E–.04 10–5 ¶17555527
CSEM VI 05 14 36 58.7–.09 39.13N 28.95E 10 2.6
ISK VI 05 14 36 58.3 39.16N 28.93E 7 2.7
DDA VI 05 14 36 59.0 39.08N 28.99E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=11.1.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=61.0.
ISC VI 05 14 46 31.8–.94 39.13N–.03 28.97E–.03 9 29 0-1
ISCJB VI 05 14 46 31.5–.52 39.12N–.03 28.97E–.04 9 ¶17555528
CSEM VI 05 14 46 31.6–.14 39.13N 28.96E 10 2.3
ISK VI 05 14 46 31.2 39.15N 28.94E 5 2.6
DDA VI 05 14 46 32.0 39.08N 28.98E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=141.2.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=80.0.
ISC VI 05 14 47 59.8–.94 39.11N–.03 29.03E–.03 12–9 28 0-1
ISCJB VI 05 14 47 59.6–.58 39.11N–.03 29.03E–.04 8–6 ¶17555529
CSEM VI 05 14 47 59.6–.08 39.11N 29.02E 8 2.4
ISK VI 05 14 47 59.1 39.11N 29.04E 9 2.7
DDA VI 05 14 47 59.5 39.09N 29.04E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=5.4km az=137.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=92.0.
ISC VI 05 17 48 45.9–1.2 37.08N–.02 29.07E–.02 0–12 44 0-2
ISCJB VI 05 17 48 45.9–.52 37.05N–.03 29.06E–.03 2–7 ¶17555533
ISK VI 05 17 48 45.3 37.07N 29.07E 7 2.8
DDA VI 05 17 48 46.4 37.08N 29.06E 7 2.6
CSEM VI 05 17 48 46.0–.17 37.07N 29.06E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=156.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=161.0.
ISC VI 05 18 06 08.6–.98 39.13N–.02 29.12E–.02 8–9 83 0-2
DDA VI 05 18 06 08.0 39.13N 29.10E 7 3.2 ¶17555534
ISCJB VI 05 18 06 08.3–.49 39.13N–.02 29.11E–.03 1–5 3.2
CSEM VI 05 18 06 08.6–.08 39.12N 29.12E 5 3.2
ISK VI 05 18 06 08.1 39.13N 29.12E 5 2.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=121.0.
ISC VI 05 18 09 58.3–.95 39.13N–.02 29.12E–.02 15–9 40 0-1
DDA VI 05 18 09 58.0 39.12N 29.11E 7 2.9 ¶17555535
ISK VI 05 18 09 57.4 39.11N 29.13E 7 2.7
ISCJB VI 05 18 09 58.2–.52 39.11N–.03 29.11E–.04 6–7 2.7
CSEM VI 05 18 09 58.3–.07 39.13N 29.11E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=106.0.
ISC VI 05 19 06 21.3–.97 39.15N–.02 29.00E–.01 7–8 175 0-7
THE VI 05 19 06 19.0 39.34N 29.55E 3–5 3.3L ¶16882837
ISK VI 05 19 06 20.9 39.15N 29.01E 4 3.4L
DDA VI 05 19 06 20.4 39.13N 29.01E 6 3.7L
CSEM VI 05 19 06 21.1–.08 39.14N 29.02E 2 3.7L
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=7.2km s-min=1.8km az=94.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=109.0.
ISC VI 05 19 28 28.9–.99 38.91N–.03 28.59E–.03 12–8 31 0-2
DDA VI 05 19 28 28.6 38.91N 28.59E 11 2.8 ¶17555537
ISK VI 05 19 28 28.2 38.92N 28.60E 5 2.5
CSEM VI 05 19 28 29.3–.25 38.91N 28.58E 2 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.2km az=169.0.
ISC VI 05 20 04 37.5–1.0 39.12N–.02 29.05E–.03 9–10 48 0-2
ISK VI 05 20 04 36.8 39.11N 29.07E 8 2.8 ¶17555538
ISCJB VI 05 20 04 37.5–.47 39.12N–.03 29.07E–.04 7–5 2.8
DDA VI 05 20 04 37.9 39.13N 29.10E 7 2.4L
CSEM VI 05 20 04 37.6–.10 39.11N 29.07E 10 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.1km az=24.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=92.0.
ISC VI 05 21 29 12.9–1.0 39.14N–.02 29.07E–.02 7–8 3.5b 189 0-35
DDA VI 05 21 29 12.4 39.14N 29.10E 7 4.0L ¶16856422
IDC VI 05 21 29 12.4–1.6 38.95N 29.14E 0 3.4,3.4b
ISK VI 05 21 29 12.6 39.16N 29.10E 8 4.0L,3.4b
ISCJB VI 05 21 29 12.8–.38 39.16N–.02 29.07E–.02 10–3 3.4b,2.8s
CSEM VI 05 21 29 13.1–.05 39.15N 29.09E 8 4.0L,2.8s
THE VI 05 21 29 14.5 39.11N 29.02E 8–4 3.5L,2.8s
ISC Event type ke.
DDA Event type ke.
IDC Error ellipse: s-maj=37.7km s-min=23.9km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=29.2.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=1.3km az=84.0.
THE Event type ke. Error ellipse: s-maj=4.6km s-min=1.0km az=138.0.
ISC VI 05 21 33 14.6–.99 39.11N–.02 29.12E–.02 9–9 38 0-1
ISK VI 05 21 33 13.8 39.10N 29.14E 10 2.7 ¶17555542
ISCJB VI 05 21 33 14.6–.54 39.12N–.03 29.09E–.04 5–7 2.7
CSEM VI 05 21 33 14.8–.14 39.12N 29.10E 8 2.2L
DDA VI 05 21 33 14.5 39.15N 29.09E 7 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=144.5.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=128.0.

ISC VI 05 22 49 02.0–.94 39.14N–.02 28.99E–.02 9–9 46 0-2
ISCJB VI 05 22 49 01.6–.47 39.13N–.03 28.99E–.03 6–5 ¶17555544
CSEM VI 05 22 49 01.8–.09 39.14N 28.99E 6–1 2.8
ISK VI 05 22 49 01.3 39.14N 28.99E 5 2.8
DDA VI 05 22 49 01.4 39.13N 29.00E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.2km az=41.7.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=42.0.
ISC VI 05 23 11 10.0–.96 39.13N–.03 29.01E–.03 10–9 27 0-1
ISK VI 05 23 11 08.8 39.11N 29.05E 7 2.6 ¶17555545
ISCJB VI 05 23 11 09.8–.75 39.14N–.04 29.01E–.04 0–12 2.6
CSEM VI 05 23 11 09.8–.18 39.12N 29.00E 8 2.4
DDA VI 05 23 11 09.4 39.13N 29.00E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.8km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=132.0.
DDA VI 06 00 00 13.9 39.35N 27.67E 7 2.7
¶602862725
ISC VI 06 00 32 25.6–1.0 39.11N–.03 29.01E–.02 6–10 36 0-1
ISK VI 06 00 32 24.7 39.10N 29.04E 5 2.7 ¶17555547
ISCJB VI 06 00 32 25.2–.58 39.10N–.04 29.01E–.04 1–9 2.7
DDA VI 06 00 32 25.3 39.08N 29.01E 9 2.7
CSEM VI 06 00 32 25.5–.09 39.10N 29.01E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=159.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=101.0.
ISC VI 06 00 44 09.7–1.1 39.11N–.03 29.01E–.03 7–10 36 0-2
ISCJB VI 06 00 44 09.7–.57 39.13N–.04 29.01E–.04 4–7 ¶17555548
DDA VI 06 00 44 09.5 39.09N 29.01E 7 2.6
CSEM VI 06 00 44 09.9–.17 39.12N 29.02E 5 2.6
ISK VI 06 00 44 10.4 39.18N 29.06E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=174.6.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=60.0.
ISC VI 06 01 10 07.4–.89 39.14N–.03 29.02E–.03 9 44 0-2
ISK VI 06 01 10 06.6 39.12N 29.04E 9 2.9 ¶17555550
ISCJB VI 06 01 10 07.3–.43 39.12N–.03 29.00E–.04 9 2.9
DDA VI 06 01 10 07.4 39.14N 29.01E 7 2.9L
CSEM VI 06 01 10 07.4–.17 39.16N 29.00E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=4.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=140.0.
ISC VI 06 02 40 07.1–.94 39.10N–.02 29.11E–.02 11–8 48 0-2
ISCJB VI 06 02 40 07.0–.48 39.10N–.03 29.10E–.03 8–5 ¶17555552
ISK VI 06 02 40 06.2 39.11N 29.11E 7 2.7
DDA VI 06 02 40 06.8 39.10N 29.12E 7 2.6L
CSEM VI 06 02 40 07.0–.09 39.10N 29.11E 10 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.1km az=41.4.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=98.0.
ISC VI 06 02 52 20.2–.86 39.16N–.03 29.03E–.05 9 19 0-1
DDA VI 06 02 52 19.5 39.24N 28.86E 7 2.0L ¶17555553
ISK VI 06 02 52 19.8 39.08N 29.00E 8 2.6
ISCJB VI 06 02 52 20.8–.65 39.20N–.04 28.89E–.06 9 2.6
CSEM VI 06 02 52 21.1–.18 39.19N 28.91E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.6km az=25.7.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=90.0.
ISC VI 06 03 03 18.0–.94 39.11N–.03 28.98E–.03 13–9 23 0-1
ISK VI 06 03 03 16.8 39.11N 28.98E 5 2.5 ¶17555555
ISCJB VI 06 03 03 17.9–.62 39.10N–.04 28.98E–.05 13–6 2.5
CSEM VI 06 03 03 17.8–.29 39.13N 28.96E 10 2.1L
DDA VI 06 03 03 21.4 38.95N 28.72E 7 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.2km az=139.6.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=5.9km az=107.0.
ISC VI 06 03 31 55.3–1.4 39.21N–.03 29.15E–.05 4–18 26 0-1
ISK VI 06 03 31 55.3 39.21N 29.02E 6 2.6 ¶17555557
ISCJB VI 06 03 31 56.4–.59 39.18N–.04 29.08E–.04 11–6 2.6
CSEM VI 06 03 31 56.3–.21 39.19N 29.08E 12 2.7
DDA VI 06 03 31 57.0 39.10N 29.09E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.2km az=159.2.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=141.0.
ISC VI 06 04 34 47.3–.94 39.09N–.03 29.06E–.03 11–8 30 0-1
DDA VI 06 04 34 46.9 39.08N 29.06E 7 2.4 ¶17555560
ISK VI 06 04 34 46.6 39.12N 29.04E 8 2.6
ISCJB VI 06 04 34 47.1–.58 39.08N–.04 29.05E–.04 7–6 2.6
CSEM VI 06 04 34 47.1–.18 39.09N 29.05E 8 2.4
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=5.1km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=106.0.
ISC VI 06 04 56 23.2–.93 39.12N–.03 29.11E–.03 11–8 31 0-2
ISK VI 06 04 56 21.9 39.10N 29.13E 5 2.7 ¶17555561
ISCJB VI 06 04 56 22.9–.56 39.11N–.04 29.10E–.04 6–7 2.7
DDA VI 06 04 56 23.1 39.10N 29.11E 7 2.6
CSEM VI 06 04 56 23.0–.14 39.12N 29.10E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=144.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=122.0.
ISC VI 06 05 19 59.4–.97 39.14N–.02 29.05E–.03 11–9 46 0-2
ISK VI 06 05 19 58.8 39.14N 29.07E 9 2.7 ¶17555562
ISCJB VI 06 05 19 59.4–.47 39.14N–.03 29.07E–.04 8–5 2.7
DDA VI 06 05 19 59.3 39.15N 29.09E 7 2.8
CSEM VI 06 05 19 59.5–.06 39.14N 29.07E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=30.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=97.0.
ISC VI 06 05 36 30.3–.90 39.10N–.03 29.02E–.03 13–9 34 0-1
ISK VI 06 05 36 29.0 39.00N 29.25E 21 2.4 ¶17555563
ISCJB VI 06 05 36 30.4–.53 39.11N–.03 29.01E–.04 8–6 2.4
DDA VI 06 05 36 30.2 39.09N 29.02E 7 2.7
CSEM VI 06 05 36 30.2–.22 39.14N 29.00E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=138.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=115.0.
ISC VI 06 06 30 37.0–.95 37.22N–.04 28.25E–.04 18–5 23 0-1
ISK VI 06 06 30 36.7 37.19N 28.26E 20 2.2L ¶17555566
ISCJB VI 06 06 30 37.4–.69 37.21N–.05 28.24E–.06 17–9 2.2L
CSEM VI 06 06 30 37.0–.19 37.21N 28.24E 16–2 2.2L
DDA VI 06 06 30 37.6 37.25N 28.18E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.7km az=33.1.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=26.0.
ISC VI 06 07 33 51.9–.90 39.21N–.04 28.95E–.04 9 24 0-1
ISK VI 06 07 33 50.4 39.21N 28.80E 10 2.4 ¶17555568
CSEM VI 06 07 33 51.7–.34 39.22N 28.89E 10 2.4
ISCJB VI 06 07 33 52.0–.66 39.20N–.04 28.93E–.06 9 2.4
DDA VI 06 07 33 53.6 39.11N 29.00E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.3km az=116.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=44.8.
DDA VI 06 08 54 58.5 39.70N 29.45E 7 2.5
CSEM VI 06 08 54 58.5 39.70N 29.45E 7 2.5 ¶601586548
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 06 09 10 25.5–.90 39.12N–.03 29.02E–.03 15–8 30 0-1
ISK VI 06 09 10 24.3 39.07N 29.10E 12 2.6 ¶17555573

ISCJB VI 06 09 10 25.4–.57 39.13N–.04 29.01E–.04 9–5 2.6
DDA VI 06 09 10 25.8 39.10N 29.02E 7 2.3
CSEM VI 06 09 10 25.3–.19 39.12N 29.01E 10 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.3km az=138.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=99.0.
ISC VI 06 09 36 59.3–1.8 37.34N–.07 28.38E–.09 19–3 20 0-1
ISK VI 06 09 36 59.8 37.34N 28.26E 3 2.5 ¶17555575
CSEM VI 06 09 37 02.3–.37 37.24N 28.22E 5 2.5
DDA VI 06 09 37 02.7 37.25N 28.19E 7 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=5.1km az=42.0.
ISC VI 06 09 54 56.2–.93 39.11N–.02 29.13E–.03 13–9 40 0-2
ISCJB VI 06 09 54 56.0–.51 39.10N–.03 29.12E–.04 6–6 ¶17555576
ISK VI 06 09 54 55.3 39.08N 29.16E 5 2.8
DDA VI 06 09 54 56.0 39.12N 29.13E 7 2.6
CSEM VI 06 09 54 56.1–.16 39.11N 29.13E 6–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.5km az=136.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=126.0.
ISC VI 06 11 26 39.8–.89 38.34N–.03 28.12E–.03 10 24 0-2
ISCJB VI 06 11 26 39.7–.59 38.35N–.04 28.10E–.05 10 ¶17555579
CSEM VI 06 11 26 39.8–.13 38.34N 28.11E 10 2.5
ISK VI 06 11 26 39.2 38.33N 28.13E 13 2.5
DDA VI 06 11 26 40.1 38.38N 28.12E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=140.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=146.0.
ISC VI 06 12 12 17.8–.94 39.10N–.03 29.12E–.03 10–10 36 0-2
ISCJB VI 06 12 12 17.6–.51 39.10N–.03 29.13E–.04 6–7 ¶17555581
DDA VI 06 12 12 17.6 39.09N 29.12E 7 2.6
ISK VI 06 12 12 17.3 39.10N 29.16E 6 2.6
CSEM VI 06 12 12 17.7–.08 39.11N 29.13E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.0km az=150.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=103.0.
ISC VI 06 13 10 31.7–.97 39.23N–.03 28.92E–.03 11–11 28 0-1
ISCJB VI 06 13 10 31.6–.67 39.23N–.04 28.92E–.05 8–7 ¶17555583
ISK VI 06 13 10 31.0 39.21N 28.96E 6 2.5
CSEM VI 06 13 10 31.7–.23 39.23N 28.89E 10 2.5
DDA VI 06 13 10 32.7 39.15N 28.95E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=102.0.
ISC VI 06 13 24 31.6–.87 39.80N–.03 40.58E–.03 11 27 0-2
DDA VI 06 13 24 24.6 40.35N 41.03E 7 3.1 ¶17555584
ISK VI 06 13 24 30.9 39.79N 40.53E 14 2.7
ISCJB VI 06 13 24 31.4–.57 39.79N–.03 40.55E–.05 11 2.7
CSEM VI 06 13 24 31.0–.29 39.77N 40.50E 12 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.8km az=169.7.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=6.9km az=9.0.
ISC VI 06 13 41 54.5–.93 39.10N–.03 29.07E–.03 11–10 30 0-1
ISK VI 06 13 41 53.5 39.07N 29.11E 6 2.6 ¶17555587
ISCJB VI 06 13 41 54.3–.54 39.10N–.04 29.07E–.04 5–9 2.6
DDA VI 06 13 41 54.3 39.08N 29.07E 7 2.2
CSEM VI 06 13 41 54.4–.11 39.11N 29.06E 5 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.8km az=143.4.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=105.0.
ISC VI 06 14 05 28.2–.96 39.12N–.02 29.12E–.03 10–9 36 0-1
ISCJB VI 06 14 05 27.9–.52 39.12N–.03 29.10E–.04 6–6 ¶17555589
ISK VI 06 14 05 27.1 39.12N 29.11E 6 2.5
CSEM VI 06 14 05 28.0–.07 39.12N 29.11E 8 2.4L
DDA VI 06 14 05 28.1 39.09N 29.12E 7 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=33.7.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=110.0.
ISC VI 06 15 04 40.7–.96 39.11N–.02 29.12E–.02 9–9 71 0-2
ISCJB VI 06 15 04 40.2–.47 39.11N–.03 29.11E–.03 0–6 ¶17555592
DDA VI 06 15 04 40.4 39.11N 29.13E 7 2.8
CSEM VI 06 15 04 40.6–.09 39.11N 29.11E 5 2.8
ISK VI 06 15 04 40.0 39.11N 29.08E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=175.5.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=136.0.
ISC VI 06 15 17 11.5–1.5 39.97N–.03 32.35E–.02 3–12 39 1-2
ISCJB VI 06 15 17 11.9–.79 39.96N–.04 32.32E–.04 5–8 ¶17555593
ISK VI 06 15 17 11.9 39.94N 32.32E 14 2.7
CSEM VI 06 15 17 12.0–.15 39.96N 32.32E 10 2.7
DDA VI 06 15 17 12.1 40.00N 32.30E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.7km az=26.4.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=14.0.
ISC VI 06 15 24 09.4–.00 37.23N–.05 28.19E–.05 12–7 23 0-1
ISCJB VI 06 15 24 09.5–1.0 37.25N–.04 28.21E–.05 15–39 ¶17555594
ISK VI 06 15 24 09.4 37.22N 28.16E 6 2.4
DDA VI 06 15 24 09.2 37.20N 28.05E 7 2.6
CSEM VI 06 15 24 10.1–.28 37.26N 28.21E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.3km az=38.1.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=49.0.
ISC VI 06 15 41 24.0–1.1 40.74N–.03 37.08E–.02 4–10 59 0-3
ISK VI 06 15 41 22.8 40.73N 37.07E 2 3.0 ¶17555595
CSEM VI 06 15 41 23.7–.19 40.73N 37.08E 2 2.9
DDA VI 06 15 41 23.6 40.68N 37.07E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=1.0.
ISC VI 06 15 48 40.0–.93 39.10N–.03 29.04E–.03 16–9 30 0-1
DDA VI 06 15 48 39.8 39.15N 29.04E 7 2.7 ¶17555596
ISK VI 06 15 48 39.2 39.08N 29.08E 9 2.7
ISCJB VI 06 15 48 40.0–.54 39.11N–.03 29.04E–.04 7–6 2.7
CSEM VI 06 15 48 40.1–.12 39.11N 29.03E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.8km az=43.5.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=111.0.
ISC VI 06 15 50 15.2–.90 39.10N–.03 29.00E–.03 15–8 28 0-1
ISK VI 06 15 50 13.7 39.05N 29.10E 7 2.7 ¶17555597
ISCJB VI 06 15 50 14.9–.59 39.11N–.04 29.01E–.04 6–8 2.7
CSEM VI 06 15 50 14.8–.23 39.10N 28.99E 8 2.6
DDA VI 06 15 50 15.2 39.09N 29.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=144.8.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=110.0.
ISC VI 06 16 34 34.6–.95 39.14N–.02 29.02E–.02 9–9 72 0-2
ISCJB VI 06 16 34 34.1–.45 39.13N–.03 29.02E–.03 3–5 ¶17555598
DDA VI 06 16 34 34.4 39.12N 29.04E 9 2.9L
CSEM VI 06 16 34 34.4–.05 39.14N 29.02E 5 2.9L
ISK VI 06 16 34 34.1 39.14N 29.00E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=172.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=1.0.
ISC VI 06 16 58 49.5–1.2 37.16N–.04 33.36E–.03 7–10 32 1-2
ISCJB VI 06 16 58 49.2–.96 37.17N–.04 33.31E–.04 3–8 ¶17555599
DDA VI 06 16 58 49.1 37.18N 33.29E 7 3.0
CSEM VI 06 16 58 49.5–.18 37.17N 33.33E 8 3.0
ISK VI 06 16 58 49.2 37.15N 33.36E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.1km az=168.3.
DDA Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=161.0.
ISC VI 06 17 33 06.6–.97 39.12N–.04 29.09E–.03 14–10 34 0-1
ISCJB VI 06 17 33 06.8–.54 39.10N–.03 29.08E–.04 6–6 ¶17555602
CSEM VI 06 17 33 06.9–.10 39.10N 29.09E 8 2.6L
DDA VI 06 17 33 06.8 39.10N 29.08E 7 2.6L
ISK VI 06 17 33 06.1 39.09N 29.10E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=136.7.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=109.0.
DDA Event type ke.
ISC VI 06 17 36 43.8–.94 39.12N–.03 29.10E–.03 13–8 28 0-1
ISK VI 06 17 36 42.7 39.11N 29.10E 9 2.6 ¶602862767
ISCJB VI 06 17 36 43.7–.56 39.12N–.03 29.08E–.04 10–5 2.6
DDA VI 06 17 36 43.9 39.14N 29.08E 7 2.5
CSEM VI 06 17 36 43.6–.09 39.13N 29.08E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.7km az=44.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=114.0.
ISC VI 06 19 03 18.9–.88 39.15N–.03 29.10E–.02 9 55 0-6
ISCJB VI 06 19 03 18.5–.39 39.14N–.03 29.09E–.03 9 ¶17555604
DDA VI 06 19 03 18.5 39.12N 29.10E 7 2.8L
ISK VI 06 19 03 18.2 39.15N 29.09E 6 2.8
CSEM VI 06 19 03 18.6–.06 39.15N 29.10E 5 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=166.6.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.5km az=102.0.
ISC VI 06 19 08 57.6–.95 39.11N–.03 29.03E–.03 14–9 26 0-1
ISK VI 06 19 08 56.8 39.08N 29.10E 20 2.6 ¶17555605
ISCJB VI 06 19 08 57.8–.57 39.14N–.03 29.01E–.04 11–5 2.6
CSEM VI 06 19 08 57.7–.14 39.14N 29.00E 12 2.6
DDA VI 06 19 08 58.4 39.08N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.0km az=137.4.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=107.0.
ISC VI 06 20 06 22.2–.92 37.71N–.03 43.78E–.03 9–8 55 0-4
ISN VI 06 20 06 15.4–.47 37.78N 42.89E 0–3 3.2L ¶17555607
TEH VI 06 20 06 20.6 37.83N 43.47E 10 2.5L
ISK VI 06 20 06 21.8 37.69N 43.80E 8 3.2
CSEM VI 06 20 06 21.7–.37 37.72N 43.82E 2 3.2
DDA VI 06 20 06 22.0 37.71N 43.78E 7 3.2L
ISC Event type ke.
ISN Error ellipse: s-maj=3.3km s-min=17.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.9km az=105.0.
ISC VI 06 20 13 56.9–1.3 37.76N–.03 43.75E–.03 1–13 44 0-4
ISK VI 06 20 13 56.6 37.69N 43.84E 11 3.3 ¶17555608
CSEM VI 06 20 13 57.6–.30 37.74N 43.72E 2 3.3
TEH VI 06 20 13 58.9 37.92N 43.70E 10 2.9L
ISN VI 06 20 13 59.1–.47 37.76N 43.89E 0–1 3.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=7.3km az=30.0.
ISN Error ellipse: s-maj=2.9km s-min=4.0km az=-1.0.
ISC VI 06 21 39 02.7–1.0 36.20N–.04 29.54E–.03 33–3 78 0-3
ISK VI 06 21 39 00.7 36.18N 29.51E 17 3.0 ¶17555609
ATH VI 06 21 39 01.3 35.85N 29.39E 15–4 2.0L
DDA VI 06 21 39 01.6 36.25N 29.30E 24 3.1L
ISCJB VI 06 21 39 02.1–.61 36.17N–.04 29.53E–.04 40–6 3.1L
CSEM VI 06 21 39 02.1–.25 36.22N 29.52E 20 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.9km s-min=1.3km az=348.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=159.4.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=161.0.
ISC VI 06 22 01 17.4–.98 36.32N–.03 29.01E–.02 17–7 107 0-4
ISK VI 06 22 01 16.4 36.30N 29.01E 17 3.2 ¶16882865
DDA VI 06 22 01 16.3 36.28N 29.00E 31 3.1L
THE VI 06 22 01 17.6 36.32N 29.02E 8–1 2.3L
CSEM VI 06 22 01 17.2–.13 36.32N 29.02E 15 2.3L
ATH VI 06 22 01 17.3 35.90N 29.03E 11–3 2.0L
ISCJB VI 06 22 01 17.8–.41 36.30N–.03 29.01E–.03 27–4 2.0L
ISC Event type ke.
THE Event type ke.
CSEM Event type ke.
ATH Event type ke.
ISCJB Event type ke.
ISC VI 06 22 24 11.0–.97 39.13N–.02 29.04E–.02 7–8 123 0-2
DDA VI 06 22 24 10.3 39.13N 29.04E 8 3.5L ¶17555611
CSEM VI 06 22 24 10.8–.08 39.11N 29.05E 2 3.5L
ISK VI 06 22 24 10.4 39.12N 29.03E 5 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=135.0.
ISC VI 06 23 06 16.2–.89 39.12N–.04 29.05E–.03 9 24 0-1
ISK VI 06 23 06 15.8 39.11N 29.01E 14 2.6 ¶17555612
ISCJB VI 06 23 06 16.6–.58 39.14N–.04 29.02E–.04 9 2.6
CSEM VI 06 23 06 16.4–.11 39.12N 29.02E 15 2.6
DDA VI 06 23 06 17.3 39.07N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=158.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=89.0.
ISC VI 06 23 21 45.4–.90 39.13N–.03 29.02E–.02 13–8 42 0-2
ISK VI 06 23 21 44.3 39.11N 29.04E 8 2.8 ¶17555613
ISCJB VI 06 23 21 45.1–.48 39.12N–.03 29.01E–.04 6–5 2.8
CSEM VI 06 23 21 45.2–.12 39.12N 29.00E 8 2.6
DDA VI 06 23 21 45.1 39.13N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.3km az=23.5.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=77.0.
ISC VI 06 23 46 08.6–.96 39.13N–.02 29.08E–.02 9–9 48 0-2
ISK VI 06 23 46 07.9 39.12N 29.04E 6 2.7 ¶17555614
ISCJB VI 06 23 46 08.1–.50 39.12N–.03 29.07E–.03 0–7 2.7
DDA VI 06 23 46 08.4 39.11N 29.10E 7 2.7L
CSEM VI 06 23 46 08.5–.07 39.13N 29.07E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=6.2.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=83.0.
ISC VI 06 23 57 14.5–.99 39.13N–.02 29.03E–.03 11–10 44 0-2
ISK VI 06 23 57 13.9 39.13N 29.04E 10 2.7 ¶17555615
ISCJB VI 06 23 57 14.7–.49 39.13N–.03 29.04E–.04 7–5 2.7
CSEM VI 06 23 57 14.7–.13 39.13N 29.03E 10 2.6
DDA VI 06 23 57 14.9 39.14N 29.07E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.7km az=161.1.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=82.0.
ISC VI 07 02 08 45.3–.99 39.07N–.04 29.05E–.03 10–8 28 0-1
ISK VI 07 02 08 44.5 39.07N 29.08E 10 2.5 ¶17555617
ISCJB VI 07 02 08 45.2–.56 39.08N–.03 29.05E–.04 7–6 2.5
DDA VI 07 02 08 45.0 39.08N 29.05E 7 2.6
CSEM VI 07 02 08 45.1–.09 39.09N 29.04E 7–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=153.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=133.0.
ISC VI 07 02 12 39.5–.99 39.10N–.03 29.03E–.03 9 21 0-1
ISK VI 07 02 12 38.6 39.06N 29.10E 10 2.6 ¶17555618
ISCJB VI 07 02 12 39.5–.60 39.10N–.04 29.03E–.04 9 2.6
DDA VI 07 02 12 39.2 39.14N 29.02E 7 2.6
CSEM VI 07 02 12 39.4–.17 39.11N 29.01E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=157.3.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=97.0.
ISC VI 07 02 14 03.7–.96 39.17N–.04 29.00E–.03 12–9 26 0-1
ISCJB VI 07 02 14 03.8–.56 39.15N–.04 28.99E–.04 11–7 ¶17555619

ISK VI 07 02 14 03.0 39.15N 28.96E 10 2.5
CSEM VI 07 02 14 03.7–.17 39.15N 28.98E 15 2.5
DDA VI 07 02 14 04.5 39.09N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.9km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.7km az=9.0.
ISC VI 07 03 15 19.6–.95 39.14N–.04 29.00E–.03 17–8 27 0-2
ISK VI 07 03 15 18.4 39.13N 29.00E 8 2.7 **¶17555621**
ISCJB VI 07 03 15 19.2–.56 39.15N–.04 28.99E–.04 11–6 2.7
CSEM VI 07 03 15 19.3–.13 39.15N 28.99E 10 2.6
DDA VI 07 03 15 20.0 39.09N 29.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=138.3.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=116.0.
ISC VI 07 04 05 14.7–1.0 39.11N–.02 29.03E–.02 6–9 99 0-2
ISCJB VI 07 04 05 14.4–.48 39.11N–.02 29.03E–.03 1–5 **¶17555622**
CSEM VI 07 04 05 14.8–.06 39.10N 29.03E 5 3.2L
ISK VI 07 04 05 14.2 39.11N 29.03E 6 3.2L
DDA VI 07 04 05 14.2 39.10N 29.03E 7 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=39.5.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.4km az=73.0.
ISC VI 07 06 02 40.1–1.1 37.26N–.05 28.16E–.03 7–10 29 0-2
ISK VI 07 06 02 39.8 37.23N 28.16E 2 2.0L **¶17555623**
DDA VI 07 06 02 40.7 37.24N 28.13E 7 2.8
CSEM VI 07 06 02 41.1–.26 37.26N 28.16E 2 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.6km az=29.0.
ISC VI 07 07 21 57.9–1.2 37.19N–.04 28.12E–.04 6–13 20 0-2
ISK VI 07 07 21 56.8 37.24N 28.18E 5 1.9L **¶17555625**
DDA VI 07 07 21 57.7 37.20N 28.09E 7 2.6
CSEM VI 07 07 21 58.1–.22 37.19N 28.11E 2 1.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.9km az=28.0.
ISC VI 07 07 36 25.9–.93 39.09N–.03 29.04E–.02 12–10 38 0-1
ISK VI 07 07 36 24.9 39.09N 29.05E 10 2.5 **¶17555627**
ISCJB VI 07 07 36 25.6–.48 39.09N–.03 29.03E–.04 4–7 2.5
DDA VI 07 07 36 25.6 39.08N 29.04E 7 2.6
CSEM VI 07 07 36 25.7–.13 39.09N 29.03E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=138.0.
ISC VI 07 10 07 16.7–.89 37.59N–.03 28.91E–.03 14–6 29 0-1
ISK VI 07 10 07 15.8 37.56N 28.95E 10 2.3L **¶17555632**
CSEM VI 07 10 07 16.4–.30 37.61N 28.90E 15 2.6L
ISCJB VI 07 10 07 17.0–.56 37.65N–.05 28.84E–.05 8–8 2.6L
DDA VI 07 10 07 17.1 37.70N 28.84E 2 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=6.0km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.7km az=144.0.
ISC VI 07 13 08 20.9–.98 39.07N–.02 29.05E–.02 7–9 60 0-2
ISCJB VI 07 13 08 20.5–.56 39.08N–.03 29.04E–.03 0–7 **¶17555636**
CSEM VI 07 13 08 20.7–.09 39.08N 29.03E 2 2.8
ISK VI 07 13 08 20.2 39.06N 29.07E 5 2.8L
DDA VI 07 13 08 20.5 39.08N 29.04E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=154.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=126.0.
ISK VI 07 14 36 56.2 40.82N 29.68E 20 2.2
¶17555637
ISC VI 07 19 36 11.6–1.0 39.09N–.02 29.09E–.02 6–9 216 0-8
ISK VI 07 19 36 10.8 39.05N 29.07E 3 3.6L **¶16882914**
DDA VI 07 19 36 11.1 39.12N 29.06E 6 3.4
CSEM VI 07 19 36 11.7–.09 39.07N 29.06E 2 3.4
THE VI 07 19 36 11.4 39.01N 29.17E 6–7 3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=27.0.
THE Event type ke. Error ellipse: s-maj=9.3km s-min=0.9km az=130.0.
ISC VI 07 19 39 52.9–.97 39.09N–.02 29.10E–.02 9–10 82 0-3
ISCJB VI 07 19 39 52.6–.47 39.10N–.03 29.08E–.03 2–6 **¶17555641**
CSEM VI 07 19 39 52.8–.09 39.10N 29.10E 2 2.5
DDA VI 07 19 39 52.6 39.12N 29.06E 7 2.5
ISK VI 07 19 39 52.3 39.08N 29.11E 5 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=148.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=118.0.
ISC VI 07 20 15 32.1–1.2 36.30N–.03 29.24E–.02 9–10 76 0-3
DDA VI 07 20 15 31.9 36.29N 29.15E 6 3.0 **¶17555642**
ISK VI 07 20 15 31.2 36.26N 29.27E 11 3.0
ISCJB VI 07 20 15 32.7–.53 36.28N–.03 29.20E–.03 8–4 3.0
ATH VI 07 20 15 32.0 36.36N 29.27E 30–1 2.4L
CSEM VI 07 20 15 32.8–.17 36.30N 29.26E 12 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.0km az=170.5.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=0.9km az=190.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=159.0.
ISC VI 07 20 55 11.3–.94 39.10N–.02 29.08E–.02 9–9 60 0-2
ISCJB VI 07 20 55 10.9–.55 39.10N–.03 29.07E–.03 1–7 **¶17555643**
ISK VI 07 20 55 10.5 39.09N 29.10E 5 2.9
DDA VI 07 20 55 10.9 39.11N 29.07E 7 2.8
CSEM VI 07 20 55 11.2–.09 39.09N 29.07E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.8km az=149.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=114.0.
ISC VI 07 22 52 36.1–.99 39.08N–.02 29.06E–.02 6–7 3.6b,3.4s 369 0-88
DDA VI 07 22 52 34.9 39.11N 29.06E 19 3.7,3.4s **¶16856625**
ISK VI 07 22 52 34.6 39.09N 29.06E 5 3.9L,3.4s
ISCJB VI 07 22 52 35.4–.38 39.10N–.01 29.04E–.02 4–3 3.6b,3.2s
IDC VI 07 22 52 35.3–1.2 39.03N 29.21E 0 3.7,3.7
CSEM VI 07 22 52 36.0–.08 39.09N 29.03E 2 3.7,3.7
THE VI 07 22 52 36.9 39.07N 28.96E 1–6 3.7,3.7
NSSC VI 07 22 53 15.5–1.8 37.55N 32.25E 0–98 2.7,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=41.8.
IDC Error ellipse: s-maj=20.6km s-min=14.0km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=2.1km az=4.0.
THE Event type ke. Error ellipse: s-maj=6.8km s-min=1.3km az=62.0.
NSSC Error ellipse: s-maj=91.1km s-min=141.9km az=-1.0.
ISC VI 07 23 11 24.9–.92 39.12N–.02 29.01E–.02 10–9 72 0-2
ISCJB VI 07 23 11 24.4–.47 39.13N–.03 29.00E–.03 2–6 **¶17555645**
CSEM VI 07 23 11 24.7–.06 39.12N 29.01E 5 2.9
ISK VI 07 23 11 24.1 39.11N 28.99E 5 2.9
DDA VI 07 23 11 24.5 39.11N 29.01E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=161.2.
CSEM Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=122.0.
ISC VI 08 00 12 03.9–1.3 39.12N–.05 28.97E–.04 16–12 20 0-1
ISCJB VI 08 00 12 03.9–.87 39.11N–.06 28.98E–.06 12–8 **¶601586671**
DDA VI 08 00 12 04.3 39.07N 28.99E 7 2.7
CSEM VI 08 00 12 04.0–.11 39.12N 28.96E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.0km az=147.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=1.4km az=138.0.
ISC VI 08 00 21 11.0–1.0 39.14N–.05 28.98E–.04 16–9 24 0-1
CSEM VI 08 00 21 10.8–.30 39.16N 28.97E 15 2.7 **¶601586672**
ISCJB VI 08 00 21 11.4–.82 39.12N–.06 29.00E–.05 10–8 2.7
DDA VI 08 00 21 11.5 39.10N 29.01E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.0km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.8km az=150.6.

DDA Event type ke.
ISC VI 08 00 33 26.2–.93 39.09N–.03 29.05E–.03 11–9 34 0-2
DDA VI 08 00 33 25.9 39.09N 29.05E 7 2.7 **¶17555647**
ISK VI 08 00 33 25.8 39.08N 29.08E 6 2.5
ISCJB VI 08 00 33 26.2–.58 39.08N–.04 29.06E–.04 2–9 2.5
CSEM VI 08 00 33 26.3–.12 39.09N 29.05E 2 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=146.9.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=124.0.
ISC VI 08 00 45 01.7–.93 39.09N–.03 29.05E–.03 11–8 36 0-1
ISK VI 08 00 45 00.9 39.07N 29.13E 13 2.4 **¶17555648**
ISCJB VI 08 00 45 01.6–.51 39.10N–.03 29.04E–.04 7–6 2.4
DDA VI 08 00 45 01.4 39.09N 29.05E 7 2.9
CSEM VI 08 00 45 01.6–.10 39.11N 29.04E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=137.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=123.0.
ISC VI 08 01 00 12.9–.92 39.11N–.03 29.05E–.03 12–9 32 0-1
ISCJB VI 08 01 00 12.9–.53 39.09N–.03 29.03E–.04 8–6 **¶17555650**
ISK VI 08 01 00 12.1 39.13N 28.95E 6 2.3
CSEM VI 08 01 00 12.8–.17 39.11N 29.02E 10 2.6
DDA VI 08 01 00 12.5 39.09N 29.05E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.0km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.7km az=128.0.
DDA Event type ke.
ISC VI 08 01 03 53.0–.94 39.09N–.03 29.06E–.03 11–8 38 0-2
ISCJB VI 08 01 03 52.9–.55 39.09N–.04 29.05E–.04 4–8 **¶17555651**
DDA VI 08 01 03 52.4 39.10N 29.04E 7 2.9
ISK VI 08 01 03 52.2 39.05N 29.15E 6 2.3
CSEM VI 08 01 03 53.1–.14 39.10N 29.06E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.1km az=148.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=124.0.
ISC VI 08 01 04 06.5–1.0 38.47N–.03 33.86E–.03 8–8 39 0-2
DDA VI 08 01 04 06.1 38.47N 33.85E 10 2.8 **¶601586678**
CSEM VI 08 01 04 06.1 38.47N 33.85E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 08 01 10 10.7–.94 39.12N–.04 29.10E–.03 17–8 26 0-1
ISK VI 08 01 10 09.3 39.19N 28.95E 7 2.4 **¶17555652**
ISCJB VI 08 01 10 10.6–.63 39.13N–.04 29.09E–.05 13–6 2.4
CSEM VI 08 01 10 10.5–.21 39.14N 29.07E 10 2.6
DDA VI 08 01 10 11.0 39.08N 29.11E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=145.1.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=127.0.
DDA Event type ke.
ISC VI 08 01 31 16.2–1.2 39.10N–.05 29.05E–.04 14–13 20 0-1
ISCJB VI 08 01 31 16.0–.78 39.10N–.06 29.05E–.06 11–9 **¶601586679**
DDA VI 08 01 31 16.2 39.07N 29.05E 7 2.6
CSEM VI 08 01 31 16.5–.13 39.09N 29.05E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.1km az=149.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.0km az=137.0.
ISC VI 08 01 43 00.9–1.2 39.15N–.05 29.13E–.04 18–9 20 0-1
ISCJB VI 08 01 43 00.9–.84 39.16N–.06 29.13E–.06 13–9 **¶601586680**
DDA VI 08 01 43 01.4 39.11N 29.13E 7 2.6
CSEM VI 08 01 43 01.1–.12 39.14N 29.14E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=5.5km az=148.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.0km az=137.0.
ISC VI 08 01 46 31.0–.96 39.10N–.03 29.11E–.03 10–10 34 0-2
DDA VI 08 01 46 30.6 39.10N 29.09E 10 2.7 **¶17555654**
CSEM VI 08 01 46 30.9–.09 39.11N 29.11E 2 2.7
ISK VI 08 01 46 30.0 39.07N 29.19E 6 2.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=116.0.
ISC VI 08 01 48 47.9–1.1 39.11N–.03 28.99E–.04 8–15 26 0-1
ISCJB VI 08 01 48 47.8–.87 39.12N–.05 29.00E–.07 3–16 **¶17555655**
DDA VI 08 01 48 47.6 39.12N 28.98E 7 2.7
CSEM VI 08 01 48 47.9–.06 39.13N 28.99E 2 2.7
ISK VI 08 01 48 47.6 39.09N 29.08E 12 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=4.8km az=41.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=101.0.
ISC VI 08 03 24 28.0–.95 39.11N–.02 29.08E–.02 9–10 89 0-2
DDA VI 08 03 24 27.8 39.11N 29.07E 7 3.2L **¶17555658**
ISK VI 08 03 24 27.6 39.10N 29.07E 5 3.1L
CSEM VI 08 03 24 28.1–.10 39.11N 29.08E 2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=127.0.
ISC VI 08 03 37 17.1–1.3 37.86N–.02 29.18E–.03 1–12 42 0-2
ISCJB VI 08 03 37 17.8–.50 37.84N–.02 29.15E–.04 4–6 **¶17555659**
DDA VI 08 03 37 17.3 37.83N 29.18E 7 2.8
CSEM VI 08 03 37 17.6–.20 37.84N 29.18E 5 2.8
ISK VI 08 03 37 17.3 37.86N 29.18E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=80.0.
ISC VI 08 03 58 01.7–.96 39.09N–.03 29.07E–.03 9–10 28 0-2
ISCJB VI 08 03 58 01.5–.65 39.10N–.04 29.07E–.04 1–14 **¶17555661**
DDA VI 08 03 58 01.4 39.09N 29.07E 7 2.6
ISK VI 08 03 58 01.0 39.06N 29.18E 5 2.6
CSEM VI 08 03 58 01.7–.10 39.10N 29.08E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.4km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=125.0.
ISC VI 08 04 46 10.0–1.1 37.84N–.03 29.15E–.03 7–11 26 0-1
ISCJB VI 08 04 46 09.8–.66 37.84N–.03 29.17E–.06 6–11 **¶601586687**
DDA VI 08 04 46 09.6 37.84N 29.19E 7 2.7L
CSEM VI 08 04 46 09.8–.45 37.84N 29.16E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=176.5.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=8.1km az=77.0.
ISC VI 08 06 04 51.9–.93 39.14N–.02 29.05E–.02 10–9 54 0-2
ISCJB VI 08 06 04 51.5–.47 39.14N–.03 29.04E–.03 2–7 **¶17555663**
CSEM VI 08 06 04 51.9–.07 39.14N 29.04E 5 2.5
ISK VI 08 06 04 51.2 39.13N 29.06E 7 2.7,2.4L
DDA VI 08 06 04 51.5 39.14N 29.06E 7 2.5,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=149.1.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=120.0.
ISC VI 08 06 23 21.4–.91 39.13N–.02 28.99E–.02 12–8 42 0-2
ISK VI 08 06 23 20.3 39.13N 28.97E 6 1.9L **¶17555664**
ISCJB VI 08 06 23 21.0–.54 39.12N–.03 29.00E–.04 3–9 1.9L
DDA VI 08 06 23 21.1 39.10N 29.02E 7 2.5L
CSEM VI 08 06 23 21.1–.10 39.13N 28.97E 8 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.3km az=150.1.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=117.0.
ISC VI 08 07 26 56.6–.00 39.13N–.03 27.51E–.02 12–8 44 0-2
ISK VI 08 07 26 55.7 39.14N 27.50E 11 2.7 **¶17555667**

ISCJB VI 08 07 26 56.3–.56 39.14N–.04 27.51E–.04 7–5 2.7
DDA VI 08 07 26 56.9 39.07N 27.64E 7 2.0L
CSEM VI 08 07 26 56.5–.16 39.13N 27.51E 10 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.7km az=7.5.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=163.0.
ISC VI 08 07 41 29.3–.90 39.12N–.02 29.00E–.02 15–8 48 0-1
ISK VI 08 07 41 28.8 39.11N 29.02E 9 2.4,2.1L ¶17555669
ISCJB VI 08 07 41 29.2–.44 39.11N–.03 28.99E–.04 7–5 2.4,2.1L
DDA VI 08 07 41 29.6 39.12N 29.00E 7 2.9L,2.1L
CSEM VI 08 07 41 29.4–.07 39.12N 29.00E 9–1 2.9L,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=36.9.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=133.0.
ISC VI 08 08 15 21.1–.89 39.09N–.03 29.13E–.03 16–7 38 0-2
DDA VI 08 08 15 20.6 39.16N 29.12E 7 2.5 ¶17555674
ISCJB VI 08 08 15 21.4–.54 39.09N–.04 29.13E–.04 16–11 2.5
ISK VI 08 08 15 21.1 39.07N 29.07E 21 2.3L
CSEM VI 08 08 15 21.1–.19 39.09N 29.13E 15 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=152.4.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.5km az=132.0.
ISC VI 08 09 00 29.5–.89 39.09N–.02 28.95E–.02 16–7 54 0-2
DDA VI 08 09 00 29.0 39.10N 28.97E 9 2.9 ¶17555677
CSEM VI 08 09 00 29.6–.13 39.10N 28.95E 3–1 2.9
ISK VI 08 09 00 29.0 39.09N 28.95E 6 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=141.0.
ISC VI 08 09 05 52.7–.93 39.11N–.02 29.10E–.03 13–9 51 0-2
ISCJB VI 08 09 05 52.9–.46 39.10N–.03 29.10E–.04 7–5 ¶17555678
DDA VI 08 09 05 52.7 39.11N 29.09E 21 2.7
ISK VI 08 09 05 52.5 39.11N 29.11E 6 2.2L
CSEM VI 08 09 05 53.2–.12 39.10N 29.09E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.7km az=135.7.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=128.0.
ISC VI 08 09 12 54.9–1.1 39.10N–.04 29.12E–.03 9 24 0-1
ISK VI 08 09 12 53.7 39.09N 29.14E 5 1.9L ¶17555679
ISCJB VI 08 09 12 54.5–.56 39.09N–.04 29.13E–.05 9 1.9L
CSEM VI 08 09 12 54.6–.08 39.09N 29.13E 7–1 1.9L
DDA VI 08 09 12 54.7 39.08N 29.12E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.1km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.7km az=130.0.
ISC VI 08 09 46 30.1–.90 40.70N–.03 27.35E–.02 11–6 56 0-2
ISCJB VI 08 09 46 29.4–.50 40.73N–.03 27.35E–.03 9–5 ¶17555683
CSEM VI 08 09 46 29.9–.08 40.71N 27.36E 8 2.6
ISK VI 08 09 46 29.4 40.71N 27.34E 6 2.6
DDA VI 08 09 46 30.0 40.68N 27.35E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.4km az=14.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=178.0.
ISC VI 08 10 42 58.0–1.2 39.08N–.04 29.07E–.03 15–13 22 0-1
ISCJB VI 08 10 42 57.9–.70 39.08N–.05 29.07E–.05 11–8 ¶601586706
CSEM VI 08 10 42 57.9–.12 39.09N 29.06E 10 2.5
DDA VI 08 10 42 58.0 39.05N 29.08E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.9km az=153.2.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=135.0.
ISC VI 08 10 56 13.2–.92 39.08N–.02 29.06E–.02 11–9 53 0-2
ISCJB VI 08 10 56 13.0–.44 39.08N–.03 29.05E–.03 4–7 ¶17555684
DDA VI 08 10 56 12.7 39.09N 29.04E 7 2.6
ISK VI 08 10 56 12.7 39.08N 29.06E 5 2.4L
CSEM VI 08 10 56 13.2–.08 39.08N 29.06E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.0km az=152.9.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=118.0.
ISC VI 08 11 31 51.0–.85 39.11N–.02 28.95E–.02 16–7 74 0-2
ISCJB VI 08 11 31 50.7–.40 39.10N–.03 28.95E–.03 7–5 ¶17555685
CSEM VI 08 11 31 50.9–.07 39.10N 28.95E 5 3.0L
DDA VI 08 11 31 50.3 39.11N 28.99E 7 3.0L
ISK VI 08 11 31 50.2 39.10N 28.95E 6 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=154.9.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=122.0.
ISC VI 08 11 55 31.0–1.0 39.15N–.03 29.05E–.03 11–12 30 0-1
ISCJB VI 08 11 55 30.9–.64 39.14N–.03 29.08E–.05 5–7 ¶17555686
ISK VI 08 11 55 30.4 39.12N 29.12E 10 2.1L
CSEM VI 08 11 55 31.2–.06 39.15N 29.06E 8 2.7
DDA VI 08 11 55 32.2 39.10N 29.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.7km az=30.3.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=116.0.
ISC VI 08 13 12 25.2–.95 40.28N–.03 29.14E–.02 3–8 54 0-2
DDA VI 08 13 12 24.7 40.30N 29.17E 4 2.6 ¶17555691
ISCJB VI 08 13 12 25.4–.48 40.29N–.03 29.14E–.03 0–8 2.6
ISK VI 08 13 12 25.2 40.30N 29.14E 11 2.2L
CSEM VI 08 13 12 25.7–.10 40.31N 29.14E 10 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.6km az=24.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=16.0.
ISC VI 08 14 40 16.2–.86 40.01N–.04 40.88E–.02 9 32 0-2
DDA VI 08 14 40 15.6 39.99N 40.89E 7 2.6 ¶17555695
ISCJB VI 08 14 40 16.2–.49 40.06N–.04 40.88E–.04 9 2.6
ISK VI 08 14 40 16.3 40.09N 40.78E 9 3.1
CSEM VI 08 14 40 16.3–.28 40.02N 40.84E 10 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=179.9.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.6km az=8.0.
ISC VI 08 14 46 19.6–.91 39.14N–.02 29.12E–.02 10–9 83 0-2
ISCJB VI 08 14 46 19.1–.52 39.13N–.03 29.11E–.03 2–7 ¶17555696
DDA VI 08 14 46 19.1 39.11N 29.14E 7 3.0
CSEM VI 08 14 46 19.4–.10 39.13N 29.12E 2 3.0L
ISK VI 08 14 46 19.0 39.11N 29.10E 5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.4km az=171.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=136.0.
ISC VI 08 15 01 52.9–1.2 37.20N–.04 28.14E–.04 4–14 18 0-1
CSEM VI 08 15 01 52.8–.34 37.19N 28.12E 2 2.8 ¶17555698
ISK VI 08 15 01 52.3 37.21N 28.17E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=5.3km az=47.0.
ISC VI 08 18 43 14.5–1.0 39.04N–.03 29.10E–.03 11–9 48 0-2
ISK VI 08 18 43 14.2 39.00N 29.21E 5 2.5 ¶17555703
DDA VI 08 18 43 14.6 39.10N 29.03E 7 2.7
CSEM VI 08 18 43 15.4–.16 39.07N 29.08E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.1km az=121.0.
ISC VI 08 22 30 00.1–.93 39.47N–.03 33.05E–.03 10–4 36 0-1
CSEM VI 08 22 29 59.7–.26 39.48N 33.02E 8 2.8 ¶17555708
ISK VI 08 22 29 59.9 39.49N 33.07E 5 2.8
ISCJB VI 08 22 30 00.3–.53 39.46N–.03 33.04E–.05 7–3 2.8
DDA VI 08 22 30 00.1 39.42N 33.10E 6 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.7km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=33.5.
ISC VI 08 23 14 07.2–.93 39.11N–.03 29.09E–.02 13–9 46 0-2
ISCJB VI 08 23 14 06.9–.44 39.11N–.03 29.08E–.03 9–5 ¶17555712
ISK VI 08 23 14 06.5 39.11N 29.08E 9 2.6
DDA VI 08 23 14 07.0 39.09N 29.10E 7 2.7
CSEM VI 08 23 14 07.0–.05 39.11N 29.09E 8 2.6

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=156.7.
CSEM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=101.0.
ISC VI 08 23 47 09.1–1.0 39.39N–.03 34.08E–.02 6–10 45 0-2
DDA VI 08 23 47 08.4 39.35N 34.12E 7 2.7 ¶17555713
CSEM VI 08 23 47 09.1–.12 39.41N 34.07E 5 2.7
ISK VI 08 23 47 09.0 39.39N 34.07E 9 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=163.0.
ISC VI 09 00 25 40.6–1.1 39.11N–.02 29.07E–.02 3–13 49 0-2
ISCJB VI 09 00 25 40.7–.51 39.12N–.03 29.02E–.04 2–8 ¶17555714
CSEM VI 09 00 25 40.8–.14 39.13N 29.04E 2 2.6
ISK VI 09 00 25 40.0 39.10N 29.07E 5 2.6
DDA VI 09 00 25 41.0 39.12N 29.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=150.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=113.0.
ISC VI 09 00 26 43.5–.86 37.82N–.02 27.11E–.02 11–6 46 0-1
ISK VI 09 00 26 39.8 37.83N 27.82E 11 2.7 ¶16882936
ISCJB VI 09 00 26 43.3–.43 37.83N–.03 27.11E–.03 3–5 2.7
CSEM VI 09 00 26 43.3–.17 37.82N 27.11E 8 2.6
DDA VI 09 00 26 43.1 37.83N 27.09E 7 2.6
THE VI 09 00 26 43.8 37.81N 27.09E 1–2 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.3km az=137.8.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=58.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=1.1km az=36.0.
ISC VI 09 00 33 17.5–.95 39.08N–.02 29.07E–.02 10–9 40 0-2
ISK VI 09 00 33 16.8 39.08N 29.07E 5 2.4 ¶17555715
ISCJB VI 09 00 33 17.3–.55 39.08N–.04 29.05E–.04 3–8 2.4
CSEM VI 09 00 33 17.5–.12 39.08N 29.04E 5 2.7
DDA VI 09 00 33 17.1 39.08N 29.06E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=149.6.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=116.0.
ISC VI 09 00 58 08.8–1.1 36.71N–.04 30.13E–.02 78–7 181 0-8
ISCJB VI 09 00 58 08.4–.25 36.68N–.03 30.10E–.02 87–4 ¶16580432
NSSC VI 09 00 58 09.5–.79 36.62N 30.23E 126–84 2.7L,1.9
CSEM VI 09 00 58 10.0–.11 36.70N 30.09E 70 3.2L,1.9
ATH VI 09 00 58 10.1 36.87N 29.92E 41–5 3.1L,1.9
ISK VI 09 00 58 10.5 36.86N 30.03E 71 3.2L,1.9
THE VI 09 00 58 11.3 36.80N 30.10E 73–4 3.4L,1.9
HLW VI 09 00 58 12.6 36.41N 30.06E 32–24 3.7,3.3L
NIC VI 09 00 58 13.9–.50 36.63N 30.47E 44 3.3L,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=10.4.
NSSC Error ellipse: s-maj=4.5km s-min=18.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=25.0.
ATH Event type ke. Error ellipse: s-maj=7.5km s-min=1.2km az=103.0.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=1.2km az=219.0.
ISC VI 09 06 52 42.7–1.0 39.17N–.02 32.24E–.02 8–10 57 0-2
ISK VI 09 06 52 41.3 39.20N 32.24E 7 2.9 ¶17555723
CSEM VI 09 06 52 42.2–.23 39.18N 32.26E 5 2.9
DDA VI 09 06 52 43.1 39.15N 32.22E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=173.0.
ISC VI 09 08 50 15.7–.94 37.23N–.04 28.23E–.04 11–7 24 0-1
ISK VI 09 08 50 14.9 37.27N 28.23E 5 2.4 ¶17555724
ISCJB VI 09 08 50 15.4–.77 37.25N–.05 28.22E–.08 12–9 2.4
DDA VI 09 08 50 15.5 37.24N 28.20E 7 2.5L
CSEM VI 09 08 50 16.1–.23 37.26N 28.20E 2 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=5.0km az=143.9.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.6km az=46.0.
ISC VI 09 08 58 29.6–1.0 37.26N–.04 28.23E–.04 15–7 23 0-1
DDA VI 09 08 58 29.4 37.23N 28.23E 7 2.1L ¶602862864
ISK VI 09 08 58 29.4 37.25N 28.21E 15 2.6
ISCJB VI 09 08 58 30.0–.73 37.25N–.05 28.25E–.05 15–11 2.6
CSEM VI 09 08 58 30.0–.23 37.24N 28.21E 12 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.3km az=39.5.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.9km az=48.0.
ISC VI 09 09 30 06.3–.97 39.12N–.03 29.03E–.03 16–10 36 0-2
ISK VI 09 09 30 05.8 39.04N 29.18E 15 2.4 ¶17555728
ISCJB VI 09 09 30 06.7–.52 39.12N–.03 29.03E–.04 10–5 2.4
DDA VI 09 09 30 06.1 39.14N 29.03E 7 2.6L
CSEM VI 09 09 30 06.8–.18 39.11N 29.03E 10 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=39.2.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.3km az=124.0.
ISC VI 09 12 20 28.2–1.0 40.70N–.03 30.66E–.03 5–12 29 0-2
DDA VI 09 12 20 27.5 40.70N 30.67E 7 2.7 ¶17555733
ISCJB VI 09 12 20 28.0–.57 40.70N–.03 30.67E–.05 5–10 2.7
CSEM VI 09 12 20 28.1–.16 40.70N 30.68E 2 2.4
ISK VI 09 12 20 32.4 40.50N 30.52E 13 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=21.5.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=122.0.
ISC VI 09 12 44 12.9–.95 39.08N–.02 29.03E–.02 10–11 41 0-2
ISCJB VI 09 12 44 12.8–.45 39.07N–.03 29.03E–.04 5–7 ¶17555734
DDA VI 09 12 44 12.4 39.09N 29.02E 7 2.7
ISK VI 09 12 44 12.6 39.07N 29.05E 8 2.6
CSEM VI 09 12 44 13.0–.08 39.08N 29.04E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=144.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=95.0.
ISC VI 09 13 13 32.9–1.6 39.48N–.04 30.05E–.03 3–13 32 0-1
DDA VI 09 13 13 33.2 39.46N 30.10E 7 2.6 ¶17555735
CSEM VI 09 13 13 33.7–.33 39.43N 30.09E 5 2.2
ISK VI 09 13 13 34.2 39.43N 29.97E 18 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=157.0.
ISC VI 09 13 26 44.3–.99 39.12N–.02 29.03E–.02 5–9 172 0-4
ISK VI 09 13 26 43.5 39.12N 29.07E 5 3.5L ¶16882953
DDA VI 09 13 26 43.8 39.12N 29.03E 7 3.5L
CSEM VI 09 13 26 44.5–.11 39.11N 29.04E 2 3.5L
THE VI 09 13 26 45.7 39.07N 28.88E 5–5 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=104.0.
THE Event type ke. Error ellipse: s-maj=5.5km s-min=1.0km az=148.0.
ISC VI 09 13 44 02.8–.99 39.09N–.02 29.04E–.02 7–9 120 0-4
DDA VI 09 13 44 01.9 39.10N 29.04E 7 3.3 ¶16882954
ISK VI 09 13 44 02.1 39.08N 29.05E 5 3.2L
CSEM VI 09 13 44 03.2–.13 39.06N 29.05E 2 3.3
THE VI 09 13 44 04.7 39.02N 28.86E 2–2 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=124.0.
THE Event type ke. Error ellipse: s-maj=4.1km s-min=1.0km az=275.0.
ISC VI 09 13 53 06.1–1.0 39.08N–.02 29.08E–.02 6–11 40 0-1
DDA VI 09 13 53 05.2 39.09N 29.05E 7 2.5 ¶17555736
ISK VI 09 13 53 05.8 39.06N 29.17E 5 2.2
CSEM VI 09 13 53 06.2–.13 39.08N 29.07E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=117.0.
ISC VI 09 13 54 38.6–1.1 37.21N–.05 28.12E–.05 13–10 13 0-1
CSEM VI 09 13 54 38.4 37.28N 28.22E 4 2.5 ¶17555737
ISK VI 09 13 54 38.4 37.28N 28.22E 4 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 09 17 50 28.8–.97 39.14N–.02 29.06E–.02 8–10 68 0-2
ISCJB VI 09 17 50 28.5–.53 39.13N–.03 29.07E–.03 0–7 ¶17555739

DDA VI 09 17 50 28.5 39.13N 29.08E 10 3.1L
CSEM VI 09 17 50 28.8–.09 39.13N 29.08E 2 2.7
ISK VI 09 17 50 28.6 39.13N 29.11E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=98.0.
ISC VI 09 20 08 15.5–.92 39.10N–.03 29.05E–.03 13–9 32 0-1
ISCJB VI 09 20 08 15.3–.54 39.10N–.03 29.05E–.04 8–6 **¶17555744**
ISK VI 09 20 08 15.1 39.12N 29.07E 9 2.6
CSEM VI 09 20 08 15.4–.07 39.10N 29.05E 8 2.8
DDA VI 09 20 08 15.4 39.09N 29.05E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=136.5.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.4km az=113.0.
DDA Event type ke.
ISC VI 09 22 22 27.1–.95 39.10N–.02 29.04E–.02 8–9 100 0-2
DDA VI 09 22 22 26.5 39.10N 29.04E 7 3.3L **¶601586783**
ISK VI 09 22 22 26.5 39.11N 29.06E 5 3.0
CSEM VI 09 22 22 27.6–.10 39.10N 29.05E 2 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=7.0.
ISC VI 10 00 40 48.8–.91 39.11N–.03 29.07E–.02 13–9 43 0-2
ISCJB VI 10 00 40 48.8–.51 39.10N–.04 29.07E–.03 5–8 **¶17555748**
DDA VI 10 00 40 48.4 39.10N 29.08E 7 2.8
CSEM VI 10 00 40 48.8–.12 39.12N 29.06E 2 2.6
ISK VI 10 00 40 48.6 39.12N 29.06E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.4km az=166.4.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=100.0.
ISC VI 10 01 48 35.3–.90 39.14N–.02 29.10E–.02 11–9 60 0-2
ISK VI 10 01 48 34.8 39.13N 29.09E 5 2.8 **¶17555749**
DDA VI 10 01 48 34.6 39.14N 29.08E 7 2.8
ISCJB VI 10 01 48 35.0–.45 39.13N–.03 29.09E–.03 6–6 2.8
CSEM VI 10 01 48 35.2–.09 39.13N 29.09E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=172.6.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=65.0.
ISC VI 10 06 00 41.3–1.2 38.40N–.04 37.76E–.03 2–11 31 0-1
CSEM VI 10 06 00 40.5–.22 38.20N 37.77E 10 2.9 **¶17555757**
ISK VI 10 06 00 40.3 38.23N 37.62E 26 2.0L
ISCJB VI 10 06 00 43.0–.59 38.37N–.03 37.86E–.04 5–5 2.0L
DDA VI 10 06 00 42.9 38.37N 37.87E 4 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=138.4.
ISC VI 10 09 44 34.4–.90 40.61N–.02 26.54E–.02 8–7 66 0-2
DDA VI 10 09 44 34.3 40.61N 26.53E 7 2.3 **¶16882969**
CSEM VI 10 09 44 34.6–.10 40.62N 26.54E 5 2.7
THE VI 10 09 44 34.3 40.61N 26.55E 0–1 1.7L
ISK VI 10 09 44 34.1 40.62N 26.54E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=177.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=64.0.
ISC VI 10 10 12 31.5–.87 38.63N–.02 27.17E–.02 17–7 58 0-2
ISCJB VI 10 10 12 31.2–.48 38.64N–.02 27.16E–.03 6–5 **¶17555767**
DDA VI 10 10 12 31.1 38.61N 27.18E 7 2.8
CSEM VI 10 10 12 31.5–.18 38.63N 27.18E 12 2.6
ISK VI 10 10 12 31.1 38.63N 27.20E 9 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=27.8.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.8km az=91.0.
ISC VI 10 10 18 49.5–1.2 38.05N–.03 35.63E–.03 4–11 26 0-1
CSEM VI 10 10 18 47.2–.36 38.12N 35.80E 2 2.6 **¶17555768**
ISK VI 10 10 18 49.7 37.99N 35.63E 11 2.4L
DDA VI 10 10 18 50.3 38.05N 35.57E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.5km az=141.0.
ISC VI 10 10 56 56.3–.88 39.13N–.02 29.07E–.02 9 72 0-2
ISK VI 10 10 56 54.8 39.12N 29.08E 5 2.5L **¶17555771**
DDA VI 10 10 56 55.7 39.13N 29.09E 7 2.8L
ISCJB VI 10 10 56 56.3–.37 39.10N–.03 29.08E–.04 9 2.8L
CSEM VI 10 10 56 56.1–.14 39.11N 29.08E 2 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.8km az=44.2.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=105.0.
ISC VI 10 11 00 52.7–.87 40.58N–.03 42.59E–.02 14–7 44 0-1
ISCJB VI 10 11 00 52.9–.44 40.60N–.03 42.60E–.03 8–5 **¶17555772**
DDA VI 10 11 00 52.8 40.61N 42.61E 7 2.8
ISK VI 10 11 00 52.4 40.53N 42.59E 15 2.4
TIF VI 10 11 00 52.5 40.57N 42.58E 25–1 2.4
CSEM VI 10 11 00 52.5–.12 40.55N 42.59E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=24.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=21.0.
ISC VI 10 11 16 35.8–1.1 38.65N–.04 35.78E–.03 13–9 29 0-2
CSEM VI 10 11 16 34.9–.43 38.62N 35.89E 2 2.6 **¶17555774**
ISK VI 10 11 16 35.1 38.68N 35.75E 9 2.6
DDA VI 10 11 16 36.1 38.64N 35.77E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=8.8km az=2.0.
ISC VI 10 12 57 10.1–1.1 39.06N–.03 29.10E–.03 7–11 48 0-2
DDA VI 10 12 57 09.9 39.10N 29.04E 8 3.0 **¶17555776**
ISK VI 10 12 57 09.1 38.95N 29.25E 12 3.0
ISCJB VI 10 12 57 10.3–.60 39.08N–.04 29.04E–.04 3–8 3.0
CSEM VI 10 12 57 10.3–.21 39.08N 29.07E 2 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.4km az=163.4.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.3km az=120.0.
ISC VI 10 16 04 37.0–.93 40.04N–.06 38.70E–.03 10 19 0-1
CSEM VI 10 16 04 34.1–.38 39.74N 38.73E 5 2.6 **¶17555784**
DDA VI 10 16 04 37.6 40.04N 38.69E 7 2.6
ISK VI 10 16 04 37.4 40.18N 38.65E 24 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=7.8km az=143.0.
DDA Event type ke.
ISC VI 10 19 32 38.8–.96 39.15N–.03 29.06E–.02 8–11 42 0-2
ISCJB VI 10 19 32 38.4–.47 39.13N–.04 29.05E–.03 8–5 **¶17555787**
CSEM VI 10 19 32 38.5–.09 39.13N 29.05E 8 2.7
ISK VI 10 19 32 38.1 39.16N 29.05E 5 2.8
DDA VI 10 19 32 38.4 39.14N 29.06E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.1km az=168.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=162.0.
ISC VI 10 21 13 25.9–.85 39.15N–.02 28.98E–.02 9 78 0-2
DDA VI 10 21 13 24.8 39.13N 28.99E 7 3.0L **¶17555790**
ISK VI 10 21 13 24.9 39.14N 28.97E 5 3.0
ISCJB VI 10 21 13 25.4–.35 39.13N–.03 28.98E–.03 9 3.0
CSEM VI 10 21 13 25.1–.07 39.14N 28.99E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=148.5.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=128.0.
ISC VI 10 22 47 06.2–.88 39.11N–.02 28.36E–.02 13–6 4.0b,3.7s 414 0-116
IDC VI 10 22 47 04.0–.63 39.06N 28.37E 0 4.0,3.9L **¶16593374**
ISK VI 10 22 47 04.9 39.09N 28.36E 14 4.6L,3.9L
DDA VI 10 22 47 04.7 39.10N 28.34E 34 4.7L,3.9L
MOS VI 10 22 47 04.6–.96 39.12N 28.39E 17 4.3b,3.9L
ISCJB VI 10 22 47 05.8–.31 39.11N–.01 28.37E–.02 24–3 4.0b,3.5s
NEIC VI 10 22 47 05.1 39.09N 28.35E 16 4.6L,4.4b
CSEM VI 10 22 47 05.3–.06 39.10N 28.36E 10 4.7L,4.4b
THE VI 10 22 47 06.3 39.07N 28.38E 11–2 4.3L,4.4b

ISC Event type ke.
IDC Error ellipse: s-maj=12.0km s-min=11.3km az=88.0.
DDA Event type ke.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=99.5.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=173.2.
NEIC Event type se. After ISK.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.6km az=70.0.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=0.7km az=82.0.
ISC VI 10 22 53 49.1–1.0 38.79N–.02 38.05E–.01 7–9 133 0-4
NSSC VI 10 22 53 45.2–1.3 39.10N 37.91E 0–99 2.9L **¶17555793**
ISK VI 10 22 53 48.0 38.73N 38.08E 5 3.5L
DDA VI 10 22 53 48.9 38.79N 38.06E 11 3.7L
CSEM VI 10 22 53 49.5–.13 38.76N 38.05E 2 3.5L
ISC Event type ke.
NSSC Error ellipse: s-maj=163.4km s-min=20.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=1.0.
ISC VI 10 23 20 14.7–1.2 38.78N–.03 38.04E–.02 10–10 43 0-2
ISK VI 10 23 20 13.7 38.76N 38.06E 6 2.9 **¶17555796**
DDA VI 10 23 20 14.4 38.78N 38.05E 7 2.8
CSEM VI 10 23 20 14.7–.27 38.78N 38.06E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.7km az=9.0.
ISC VI 10 23 44 16.3–.94 39.10N–.02 29.05E–.02 9–9 88 0-2
ISK VI 10 23 44 15.9 39.09N 29.06E 5 3.0 **¶17555798**
DDA VI 10 23 44 15.8 39.10N 29.03E 7 3.2
ISCJB VI 10 23 44 16.2–.44 39.08N–.03 29.04E–.03 3–5 3.2
CSEM VI 10 23 44 16.4–.09 39.07N 29.05E 5 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=147.0.
ISC VI 10 23 54 29.4–.95 37.93N–.04 42.54E–.03 10 18 0-2
CSEM VI 10 23 54 28.4–.73 37.95N 42.47E 10 2.8 **¶17555799**
ISK VI 10 23 54 28.6 37.92N 42.46E 27 2.8
DDA VI 10 23 54 34.5 37.28N 42.65E 8 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=20.6km s-min=16.4km az=39.0.
ISC VI 11 00 00 23.5–1.1 39.09N–.03 29.05E–.03 9 24 0-1
ISK VI 11 00 00 22.8 39.07N 29.14E 11 2.7 **¶17555800**
ISCJB VI 11 00 00 23.2–.57 39.07N–.05 29.06E–.05 9 2.7
DDA VI 11 00 00 23.1 39.08N 29.05E 7 2.6
CSEM VI 11 00 00 23.2–.07 39.08N 29.05E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.1km az=149.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.4km az=132.0.
ISC VI 11 00 01 55.9–.90 39.10N–.03 29.06E–.02 9 36 0-2
ISCJB VI 11 00 01 55.6–.46 39.10N–.04 29.05E–.04 9 **¶17555801**
ISK VI 11 00 01 55.3 39.13N 29.05E 8 2.8
CSEM VI 11 00 01 55.7–.06 39.10N 29.05E 8 2.8
DDA VI 11 00 01 55.8 39.07N 29.07E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.8km az=149.2.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=132.0.
ISC VI 11 00 25 50.6–1.0 39.08N–.04 29.10E–.03 13–10 30 0-2
ISK VI 11 00 25 49.5 39.11N 29.04E 5 2.8 **¶17555802**
ISCJB VI 11 00 25 50.3–.52 39.07N–.04 29.10E–.05 10–6 2.8
CSEM VI 11 00 25 50.3–.14 39.08N 29.09E 10 2.7
DDA VI 11 00 25 50.5 39.06N 29.11E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.4km az=139.8.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.8km az=132.0.
ISC VI 11 00 42 48.8–1.0 39.16N–.03 29.07E–.03 6–13 30 0-1
ISK VI 11 00 42 47.8 39.16N 29.07E 5 2.7 **¶17555803**
ISCJB VI 11 00 42 48.4–.55 39.15N–.04 29.07E–.04 7–6 2.7
CSEM VI 11 00 42 48.4–.11 39.14N 29.08E 8 2.9
DDA VI 11 00 42 48.6 39.13N 29.07E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=153.9.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=132.0.
ISC VI 11 00 59 59.4–1.1 39.14N–.02 29.08E–.02 1–12 51 0-2
ISCJB VI 11 00 59 58.9–.53 39.12N–.04 29.09E–.05 3–7 **¶17555805**
ISK VI 11 00 59 58.7 39.12N 29.09E 8 2.8
CSEM VI 11 00 59 59.1–.12 39.13N 29.09E 2 2.9L
DDA VI 11 00 59 59.2 39.12N 29.11E 7 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.6km az=135.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=121.0.
ISC VI 11 01 00 31.4–1.0 39.04N–.03 29.15E–.03 7–12 46 0-2
ISK VI 11 01 00 30.4 39.01N 29.23E 5 2.9 **¶17555808**
ISCJB VI 11 01 00 31.0–.55 39.03N–.05 29.15E–.04 4–8 2.9
DDA VI 11 01 00 31.0 39.10N 29.09E 7 2.7L
CSEM VI 11 01 00 31.0–.16 39.02N 29.19E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.4km az=153.3.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=134.0.
ISC VI 11 03 03 47.5–.95 39.12N–.03 29.03E–.03 13–10 34 0-2
ISK VI 11 03 03 46.9 39.11N 29.04E 8 2.6 **¶17555816**
ISCJB VI 11 03 03 47.4–.50 39.10N–.03 29.04E–.05 10–5 2.6
DDA VI 11 03 03 47.0 39.12N 29.03E 7 2.8
CSEM VI 11 03 03 47.5–.03 39.11N 29.03E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=42.2.
CSEM Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=119.0.
ISC VI 11 03 52 34.3–.95 39.12N–.04 29.07E–.03 9 26 0-1
ISK VI 11 03 52 33.9 39.16N 29.04E 8 2.6 **¶17555817**
ISCJB VI 11 03 52 34.2–.54 39.11N–.04 29.07E–.04 9 2.6
DDA VI 11 03 52 34.1 39.12N 29.09E 7 2.6
CSEM VI 11 03 52 34.3–.11 39.12N 29.06E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.0km az=148.6.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=134.0.
ISC VI 11 04 29 18.6–.99 39.10N–.04 29.03E–.03 9 28 0-2
ISK VI 11 04 29 17.9 39.09N 29.08E 6 2.8 **¶17555818**
ISCJB VI 11 04 29 18.4–.64 39.08N–.06 29.04E–.04 9 2.8
CSEM VI 11 04 29 18.4–.09 39.10N 29.03E 5 2.8
DDA VI 11 04 29 18.2 39.07N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.4km az=160.4.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=144.0.
DDA Event type ke.
ISC VI 11 05 28 19.0–.90 39.11N–.02 29.11E–.02 11–8 128 0-3
ISCJB VI 11 05 28 18.7–.51 39.10N–.02 29.10E–.02 1–5 **¶17555820**
DDA VI 11 05 28 18.1 39.12N 29.09E 17 3.8L
ISK VI 11 05 28 18.6 39.09N 29.12E 5 3.4L
CSEM VI 11 05 28 19.7–.12 39.07N 29.12E 10 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=144.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=128.0.
ISC VI 11 08 03 28.3–.96 39.07N–.03 29.03E–.03 11–10 32 0-1
ISCJB VI 11 08 03 27.9–.50 39.07N–.04 29.02E–.04 7–9 **¶17555821**
ISK VI 11 08 03 27.5 39.07N 29.04E 7 2.3
DDA VI 11 08 03 28.0 39.06N 29.02E 7 2.6
CSEM VI 11 08 03 28.0–.13 39.07N 29.02E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.3km az=146.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=131.0.
ISC VI 11 10 17 05.0–.00 39.07N–.02 29.06E–.02 8–11 124 0-3
DDA VI 11 10 17 04.4 39.07N 29.06E 7 3.9L **¶17555824**
ISK VI 11 10 17 05.0 39.08N 29.08E 5 3.3L
CSEM VI 11 10 17 06.2–.13 39.06N 29.08E 2 3.3L

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=131.0.
ISC VI 11 12 53 47.4–.95 39.06N–.03 29.10E–.03 9–10 30 0-2
ISK VI 11 12 53 46.9 39.03N 29.16E 15 2.0 ¶17555830
ISCJB VI 11 12 53 47.5–.52 39.07N–.04 29.08E–.04 9–6 2.0
CSEM VI 11 12 53 47.5–.17 39.07N 29.08E 10 2.0
DDA VI 11 12 53 48.0 39.09N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.2km az=137.0.
ISC VI 11 14 58 36.4–.87 39.07N–.03 29.03E–.02 15–7 49 0-2
DDA VI 11 14 58 36.1 39.10N 29.03E 13 2.6 ¶17555832
ISK VI 11 14 58 36.0 39.06N 29.03E 3 2.2,2.1L
CSEM VI 11 14 58 37.0–.15 39.04N 29.04E 10 2.6,2.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.7km az=147.0.
ISC VI 11 18 13 07.9–.94 39.11N–.02 29.02E–.02 9–10 72 0-2
ISCJB VI 11 18 13 07.5–.46 39.11N–.03 29.02E–.03 2–5 ¶17555842
DDA VI 11 18 13 07.2 39.11N 29.03E 7 2.6
CSEM VI 11 18 13 07.8–.08 39.10N 29.02E 5 2.6
ISK VI 11 18 13 07.4 39.13N 29.02E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=162.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=161.0.
ISC VI 11 19 44 26.6–1.2 39.62N–.03 37.96E–.03 5–11 28 0-2
ISCJB VI 11 19 44 26.6–.84 39.59N–.04 37.95E–.06 1–11 ¶17555845
CSEM VI 11 19 44 26.6–.24 39.58N 37.95E 10 2.4
ISK VI 11 19 44 26.1 39.62N 37.95E 5 2.8
DDA VI 11 19 44 27.5 39.70N 37.67E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=42.1.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.9km az=146.0.
ISC VI 11 20 06 37.5–.97 39.10N–.02 29.05E–.02 8–9 64 0-2
DDA VI 11 20 06 36.9 39.11N 29.03E 6 2.8 ¶17555846
ISCJB VI 11 20 06 37.5–.44 39.10N–.03 29.04E–.03 4–6 2.8
CSEM VI 11 20 06 37.7–.12 39.10N 29.06E 2 2.8
ISK VI 11 20 06 37.4 39.12N 29.06E 4 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.6km az=170.4.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=179.0.
ISK VI 11 20 07 15.1 37.21N 30.17E 80 2.9
CSEM VI 11 20 07 16.2–.17 37.20N 30.16E 75–2 2.9 ¶17555847
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=159.0.
ISC VI 11 20 21 09.6–.99 39.04N–.03 29.15E–.03 7–11 30 0-2
DDA VI 11 20 21 09.3 39.07N 29.12E 7 2.6 ¶17555849
CSEM VI 11 20 21 09.6–.18 39.04N 29.17E 2 2.3
ISK VI 11 20 21 09.1 39.02N 29.22E 5 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=135.0.
ISC VI 11 20 28 15.1–.94 39.10N–.02 29.02E–.02 8–10 92 0-2
DDA VI 11 20 28 14.5 39.09N 29.04E 8 2.8 ¶17555850
CSEM VI 11 20 28 14.9–.07 39.09N 29.01E 2 2.8
ISK VI 11 20 28 14.1 39.09N 29.01E 3 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=165.0.
ISC VI 11 21 24 24.5–.88 39.16N–.02 29.06E–.02 14–8 55 0-2
ISCJB VI 11 21 24 24.6–.42 39.15N–.03 29.06E–.03 9–4 ¶17555851
CSEM VI 11 21 24 24.5–.11 39.15N 29.06E 10 2.7
ISK VI 11 21 24 24.2 39.17N 29.04E 9 2.8
DDA VI 11 21 24 24.3 39.14N 29.07E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.5km az=173.6.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=15.0.
ISC VI 11 21 42 23.7–1.0 39.15N–.03 29.08E–.02 7–12 42 0-2
ISCJB VI 11 21 42 23.3–.49 39.14N–.05 29.07E–.04 4–9 ¶17555852
CSEM VI 11 21 42 23.5–.07 39.13N 29.09E 8 2.8
DDA VI 11 21 42 23.6 39.12N 29.07E 7 2.4
ISK VI 11 21 42 23.0 39.15N 29.11E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=154.4.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=143.0.
ISC VI 11 23 52 14.6–1.1 39.08N–.04 29.05E–.03 6–11 28 0-1
ISK VI 11 23 52 13.3 39.07N 29.06E 5 2.6 ¶17555857
ISCJB VI 11 23 52 14.3–.53 39.07N–.05 29.05E–.05 6–9 2.6
DDA VI 11 23 52 14.4 39.08N 29.04E 7 2.2
CSEM VI 11 23 52 14.2–.13 39.08N 29.05E 5 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.3km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=133.0.
ISC VI 12 00 19 17.7–.90 39.10N–.03 29.03E–.02 13–9 44 0-2
ISCJB VI 12 00 19 17.6–.46 39.10N–.04 29.03E–.04 5–7 ¶17555859
ISK VI 12 00 19 17.8 39.13N 29.06E 5 2.8
CSEM VI 12 00 19 17.8–.12 39.11N 29.03E 2 2.7
DDA VI 12 00 19 17.1 39.08N 29.05E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.2km az=159.4.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=171.0.
ISC VI 12 00 43 47.6–.97 39.14N–.02 29.02E–.02 8–11 50 0-2
ISCJB VI 12 00 43 47.2–.49 39.13N–.04 29.03E–.03 3–8 ¶17555861
DDA VI 12 00 43 47.1 39.13N 29.01E 7 2.7
CSEM VI 12 00 43 47.4–.09 39.13N 29.04E 5 2.7
ISK VI 12 00 43 47.2 39.15N 29.04E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.0km az=159.2.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=153.0.
ISC VI 12 00 45 54.5–.98 39.05N–.04 29.13E–.03 9 22 0-2
ISCJB VI 12 00 45 54.9–.60 39.05N–.05 29.10E–.05 9 ¶17555862
DDA VI 12 00 45 54.5 39.07N 29.11E 7 2.5
ISK VI 12 00 45 54.6 39.04N 29.19E 11 2.6
CSEM VI 12 00 45 55.0–.16 39.07N 29.11E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.1km az=147.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.0km az=131.0.
ISC VI 12 01 03 25.0–1.0 39.11N–.03 29.02E–.02 15–10 44 0-2
ISCJB VI 12 01 03 24.9–.44 39.11N–.04 29.01E–.04 6–8 ¶17555863
ISK VI 12 01 03 24.7 39.13N 29.02E 7 2.8
DDA VI 12 01 03 25.2 39.08N 29.05E 7 2.4
CSEM VI 12 01 03 25.0–.08 39.11N 29.01E 6–1 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.1km az=159.8.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=162.0.
ISC VI 12 01 07 21.3–1.3 39.09N–.04 29.06E–.03 14–10 26 0-1
ISK VI 12 01 07 14.8 38.97N 30.13E 25 2.9 ¶17555864
CSEM VI 12 01 07 21.9–.36 39.11N 29.08E 15 2.5
ISCJB VI 12 01 07 22.3–.65 39.14N–.05 29.02E–.05 22–8 2.5
DDA VI 12 01 07 23.2 39.05N 29.05E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=7.6km az=138.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.5km az=149.2.
ISC VI 12 03 55 04.9–.91 39.09N–.03 29.03E–.02 9 52 0-2
DDA VI 12 03 55 04.5 39.09N 29.01E 7 3.0 ¶17555872
ISK VI 12 03 55 04.5 39.09N 29.06E 5 2.8
ISCJB VI 12 03 55 05.0–.44 39.08N–.04 29.04E–.03 9 2.8
CSEM VI 12 03 55 05.0–.12 39.10N 29.04E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.7km az=165.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=169.0.
ISC VI 12 04 06 04.9–1.1 39.13N–.04 29.03E–.03 9 20 0-1
ISK VI 12 04 06 03.8 39.14N 29.00E 5 2.5 ¶17555873
ISCJB VI 12 04 06 04.7–.62 39.13N–.05 29.03E–.05 9 2.5
CSEM VI 12 04 06 04.7–.11 39.13N 29.02E 12 2.5
DDA VI 12 04 06 04.6 39.17N 29.03E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.2km az=146.3.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=134.0.
ISC VI 12 04 25 44.1–.93 39.14N–.06 29.03E–.04 9 20 0-1
ISK VI 12 04 25 43.9 39.12N 28.96E 17 2.6 ¶17555875
ISCJB VI 12 04 25 44.7–.69 39.19N–.05 28.99E–.04 9 2.6
CSEM VI 12 04 25 44.4–.08 39.10N 28.99E 20 2.6
DDA VI 12 04 25 45.4 39.09N 29.03E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=176.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=172.0.
ISC VI 12 09 00 20.1–.98 39.12N–.03 29.02E–.03 8–10 36 0-2
ISCJB VI 12 09 00 19.8–.51 39.12N–.04 29.01E–.04 5–7 ¶17555882
DDA VI 12 09 00 19.6 39.12N 29.02E 7 2.5
CSEM VI 12 09 00 19.9–.07 39.12N 29.02E 6–0 2.3
ISK VI 12 09 00 19.2 39.11N 29.02E 5 2.3,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.3km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=154.0.
ISC VI 12 09 04 23.7–.86 39.17N–.02 29.10E–.03 9 41 0-2
DDA VI 12 09 04 22.8 39.15N 29.09E 7 2.6 ¶17555883
ISK VI 12 09 04 22.5 39.18N 29.07E 5 2.4L
ISCJB VI 12 09 04 23.9–.43 39.17N–.03 29.09E–.04 9 2.4L
CSEM VI 12 09 04 23.3–.16 39.19N 29.07E 0–1 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=19.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=151.0.
ISC VI 12 10 18 13.2–1.0 39.09N–.02 29.02E–.02 7–9 62 0-2
DDA VI 12 10 18 12.8 39.12N 28.98E 7 2.8 ¶17555884
ISCJB VI 12 10 18 13.4–.52 39.11N–.03 29.00E–.03 1–5 2.8
CSEM VI 12 10 18 13.5–.10 39.10N 29.01E 2 2.8
ISK VI 12 10 18 13.0 39.08N 29.01E 6 2.4L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=152.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=166.0.
ISC VI 12 13 00 35.9–.92 37.86N–.03 27.28E–.02 9–9 39 0-1
CSEM VI 12 13 00 35.9–.20 37.87N 27.28E 2 2.6 ¶17555886
ISK VI 12 13 00 35.9 37.88N 27.35E 10 2.3L,2.3
DDA VI 12 13 00 35.5 37.87N 27.28E 7 2.6,2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=48.0.
ISC VI 12 13 17 06.9–.88 39.12N–.02 29.10E–.02 9 42 0-2
CSEM VI 12 13 17 06.9–.12 39.13N 29.10E 2 2.2L ¶17555888
DDA VI 12 13 17 06.3 39.12N 29.11E 7 2.6
ISK VI 12 13 17 06.4 39.10N 29.10E 5 2.2L
ISCJB VI 12 13 17 07.0–.43 39.09N–.03 29.11E–.04 9 2.2L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC VI 12 15 34 38.2–1.0 39.12N–.02 29.05E–.02 6–10 49 0-2
DDA VI 12 15 34 37.5 39.12N 29.05E 7 2.9 ¶17555891
ISCJB VI 12 15 34 38.1–.53 39.13N–.03 29.06E–.03 3–6 2.9
CSEM VI 12 15 34 38.2–.16 39.13N 29.07E 2 2.9
ISK VI 12 15 34 38.2 39.14N 29.09E 6 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=149.6.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.5km az=83.0.
ISC VI 12 16 17 36.6–.84 39.08N–.02 29.03E–.02 9 75 0-2
DDA VI 12 16 17 35.9 39.11N 29.06E 7 3.0L ¶17555894
ISK VI 12 16 17 35.8 39.14N 29.00E 5 2.8L
ISCJB VI 12 16 17 37.0–.36 39.10N–.03 29.00E–.04 9 2.8L
CSEM VI 12 16 17 36.7–.16 39.12N 29.02E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=29.0.
ISC VI 12 19 26 49.5–1.1 39.14N–.03 29.01E–.03 5–11 29 0-1
ISCJB VI 12 19 26 49.3–.61 39.13N–.04 29.02E–.04 4–9 ¶17555897
DDA VI 12 19 26 49.6 39.10N 29.01E 7 2.6L
ISK VI 12 19 26 49.1 39.13N 29.05E 7 2.6
CSEM VI 12 19 26 49.4–.12 39.14N 29.01E 4–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.1km az=149.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=135.0.
ISC VI 12 20 43 56.8–1.1 39.09N–.04 29.03E–.03 7–11 22 0-1
ISK VI 12 20 43 55.8 39.08N 29.03E 6 2.5 ¶17555898
ISCJB VI 12 20 43 56.5–.62 39.08N–.05 29.03E–.05 6–9 2.5
DDA VI 12 20 43 56.3 39.07N 29.03E 7 2.6
CSEM VI 12 20 43 56.5–.07 39.09N 29.02E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.9km az=149.5.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=137.0.
ISC VI 12 20 53 01.4–.00 39.12N–.03 29.00E–.03 7–9 38 0-1
DDA VI 12 20 53 00.9 39.12N 28.99E 7 2.6 ¶17555899
ISK VI 12 20 53 00.4 39.07N 29.06E 10 2.6
ISCJB VI 12 20 53 01.1–.56 39.10N–.05 29.02E–.04 6–8 2.6
CSEM VI 12 20 53 01.2–.10 39.10N 29.01E 7–1 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.5km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=155.0.
ISC VI 12 21 47 42.7–.92 39.44N–.02 33.06E–.02 9–6 46 0-2
IASPE VI 12 21 47 42.6–.96 39.44N–.03 33.07E–.03 9–6 ¶17555900
ISK VI 12 21 47 42.5 39.43N 33.08E 8 2.7
DDA VI 12 21 47 42.5 39.44N 33.07E 8 2.7
CSEM VI 12 21 47 43.0–.22 39.42N 33.05E 2 2.7
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=114.6. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=152.0.
ISC VI 13 01 16 29.7–.97 39.15N–.02 29.12E–.02 7–9 64 0-2
DDA VI 13 01 16 28.9 39.13N 29.11E 7 2.8 ¶17555903
ISCJB VI 13 01 16 29.5–.51 39.15N–.03 29.11E–.03 2–5 2.8
CSEM VI 13 01 16 29.7–.11 39.15N 29.11E 2 2.8
ISK VI 13 01 16 29.6 39.16N 29.14E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=1.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=36.0.
DDA VI 13 02 09 02.5 40.51N 35.26E 7 2.4
¶602863009
ISC VI 13 02 48 14.4–1.1 37.41N–.05 36.20E–.03 6–12 22 0-1
ISCJB VI 13 02 48 14.6–.60 37.36N–.03 36.21E–.04 3–9 ¶17555905
DDA VI 13 02 48 14.1 37.41N 36.23E 7 2.6
ISK VI 13 02 48 14.7 37.36N 36.17E 10 2.6
CSEM VI 13 02 48 14.6–.52 37.75N 36.02E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=35.4.
CSEM Event type ke. Error ellipse: s-maj=15.8km s-min=8.6km az=117.0.
ISC VI 13 04 01 49.7–1.1 39.09N–.03 29.04E–.02 4–11 31 0-2
ISK VI 13 04 01 48.8 39.08N 29.06E 5 2.6 ¶17555907
ISCJB VI 13 04 01 49.3–.63 39.09N–.05 29.05E–.04 1–10 2.6
CSEM VI 13 04 01 49.4–.10 39.09N 29.05E 2 2.6
DDA VI 13 04 01 49.5 39.09N 29.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.5km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=169.0.
ISC VI 13 10 24 04.8–.94 39.13N–.03 29.04E–.02 11–8 44 0-1
ISCJB VI 13 10 24 04.7–.52 39.13N–.04 29.02E–.03 2–7 ¶17555911
DDA VI 13 10 24 04.4 39.12N 29.03E 7 2.8

CSEM	VI	13 10 24 04.8–.11	39.13N	29.03E	5	2.8			
ISK	VI	13 10 24 04.2	39.14N	29.01E	9	2.5			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=7.1km s-min=3.4km az=168.0.							
CSEM		Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=173.0.							
ISC	**VI**	**13 10 46 32.4–.91**	**40.83N–.03**	**28.83E–.03**	**14–8**		**44**	**0-2**	
DDA	VI	13 10 46 31.8	40.86N	28.84E	5	2.7			¶17555914
ISCJB	VI	13 10 46 32.5–.48	40.84N–.03	28.83E–.03	12–4	2.7			
CSEM	VI	13 10 46 32.7–.15	40.85N	28.82E	10	2.7			
ISK	VI	13 10 46 32.5	40.84N	28.84E	11	2.2L			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=164.7.							
CSEM		Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=174.0.							
ISC	**VI**	**13 11 30 26.9–1.1**	**38.39N–.02**	**33.97E–.02**	**1–8**	**3.8b**	**150**	**0-71**	
ISK	VI	13 11 30 25.9	38.35N	33.92E	5	3.9L			¶17206045
IDC	VI	13 11 30 26.9–1.2	38.42N	33.63E	0	3.8b,3.8			
CSEM	VI	13 11 30 27.1–.14	38.35N	33.94E	2	3.9L,3.8			
ISC		Event type ke.							
IDC		Error ellipse: s-maj=21.2km s-min=15.4km az=97.0.							
CSEM		Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=37.0.							
ISK	**VI**	**13 13 01 50.3**	**37.24N**	**30.65E**	**8**	**2.2L**			
CSEM	VI	13 13 01 50.3	37.24N	30.65E	8	2.2L			¶17555918
CSEM		Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**VI**	**13 13 40 09.1–.90**	**37.05N–.02**	**28.54E–.02**	**13–7**		**132**	**0-5**	
ATH	VI	13 13 40 06.7	37.20N	28.59E	15–2	3.1L			¶17555919
DDA	VI	13 13 40 07.8	37.06N	28.47E	22	3.4			
ISK	VI	13 13 40 07.8	37.06N	28.57E	6	3.2L			
ISCJB	VI	13 13 40 08.1–.42	37.09N–.02	28.54E–.02	1–4	3.2L			
CSEM	VI	13 13 40 08.8–.15	37.05N	28.55E	10	3.2L			
ISC		Event type ke.							
ATH		Event type ke. Error ellipse: s-maj=2.3km s-min=1.4km az=65.0.							
DDA		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=34.9.							
CSEM		Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=13.0.							
DDA	**VI**	**13 14 18 23.4**	**40.03N**	**32.27E**	**7**	**2.2L**			
CSEM	VI	13 14 18 23.4	40.03N	32.27E	7	2.2L			¶601586967
CSEM		Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**VI**	**13 16 50 22.6–.98**	**39.14N–.03**	**29.04E–.03**	**9–9**		**34**	**0-2**	
ISCJB	VI	13 16 50 22.5–.54	39.13N–.05	29.04E–.04	6–7				¶17555920
DDA	VI	13 16 50 22.3	39.15N	29.05E	7	2.3			
CSEM	VI	13 16 50 22.7–.11	39.14N	29.05E	5	2.3			
ISK	VI	13 16 50 22.1	39.13N	29.04E	7	2.6			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=8.3km s-min=4.7km az=152.1.							
CSEM		Event type ke. Error ellipse: s-maj=3.0km s-min=1.9km az=127.0.							
ISC	**VI**	**13 20 51 11.0–1.1**	**37.31N–.03**	**37.09E–.03**	**3–10**		**37**	**0-2**	
DDA	VI	13 20 51 10.0	37.32N	37.12E	6	3.2			¶17555921
ISCJB	VI	13 20 51 10.9–.61	37.33N–.03	37.09E–.03	2–6	3.2			
ISK	VI	13 20 51 11.3	37.34N	37.06E	6	2.9			
CSEM	VI	13 20 51 12.1–.22	37.32N	37.03E	10	3.2			
ISC		Event type ke.							
DDA		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=160.2.							
CSEM		Event type ke. Error ellipse: s-maj=6.2km s-min=5.0km az=107.0.							
ISC	**VI**	**13 21 57 34.2–1.1**	**37.30N–.03**	**37.15E–.02**	**6–10**		**51**	**0-2**	
NSSC	VI	13 21 57 32.2–.66	37.24N	37.52E	5–4	2.2L			¶17555925
ISK	VI	13 21 57 33.1	37.31N	37.15E	5	2.2L			
ISCJB	VI	13 21 57 34.7–.51	37.32N–.03	37.11E–.03	6–4	2.2L			
DDA	VI	13 21 57 34.1	37.32N	37.12E	10	3.3			
CSEM	VI	13 21 57 34.6–.40	37.31N	37.13E	5	3.3			
ISC		Event type ke.							
NSSC		Error ellipse: s-maj=6.0km s-min=3.5km az=-1.0.							
ISCJB		Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=158.9.							
DDA		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=11.0km s-min=8.1km az=152.0.							
ISC	**VI**	**13 22 08 50.8–.98**	**39.02N–.05**	**29.04E–.03**	**12–9**		**23**	**0-1**	
ISK	VI	13 22 08 48.3	39.11N	28.93E	5	1.7L			¶17555926
ISCJB	VI	13 22 08 51.0–.67	39.08N–.05	29.01E–.05	7–10	1.7L			
CSEM	VI	13 22 08 50.3–.24	39.01N	29.02E	10	2.6			
DDA	VI	13 22 08 51.2	39.09N	29.07E	7	2.6			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=9.7km s-min=4.9km az=154.8.							
CSEM		Event type ke. Error ellipse: s-maj=9.4km s-min=4.5km az=146.0.							
ISC	**VI**	**14 01 23 47.3–1.1**	**37.30N–.03**	**37.11E–.02**	**2–11**		**43**	**0-2**	
DDA	VI	14 01 23 46.5	37.32N	37.10E	6	3.0L			¶17555927
CSEM	VI	14 01 23 47.7–.32	37.31N	37.08E	2	3.0L			
ISK	VI	14 01 23 47.3	37.28N	37.05E	5	3.0			
ISC		Event type ke.							
DDA		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=9.7km s-min=6.6km az=141.0.							
ISC	**VI**	**14 01 25 20.0–1.1**	**37.33N–.03**	**37.11E–.02**	**5–10**		**38**	**0-2**	
ISCJB	VI	14 01 25 19.6–.61	37.30N–.04	37.12E–.03	1–6				¶17555928
DDA	VI	14 01 25 19.5	37.32N	37.11E	3	3.0L			
CSEM	VI	14 01 25 19.7–.31	37.32N	37.11E	2	3.0L			
ISK	VI	14 01 25 21.3	37.34N	36.95E	4	3.0			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=162.3.							
DDA		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=8.4km s-min=6.1km az=142.0.							
ISC	**VI**	**14 06 08 18.1–1.2**	**38.36N–.08**	**38.97E–.04**	**18–4**		**18**	**0-1**	
ISCJB	VI	14 06 08 18.8–.86	38.37N–.07	39.02E–.05	20–9				¶17555931
CSEM	VI	14 06 08 18.3–.33	38.33N	38.99E	10	2.5			
DDA	VI	14 06 08 19.3	38.35N	38.95E	7	2.4			
ISK	VI	14 06 08 20.5	38.40N	39.53E	12	2.5			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=12.1km s-min=7.0km az=172.8.							
CSEM		Event type ke. Error ellipse: s-maj=10.4km s-min=6.1km az=167.0.							
ISC	**VI**	**14 10 23 09.6–1.0**	**37.46N–.08**	**42.70E–.04**	**15**		**28**	**0-3**	
DDA	VI	14 10 23 08.2	37.27N	42.63E	7	3.0			¶17555939
ISCJB	VI	14 10 23 09.7–.72	37.50N–.09	42.68E–.05	15	3.0			
CSEM	VI	14 10 23 09.6–.19	37.53N	42.68E	10	2.8			
ISK	VI	14 10 23 09.3	37.56N	42.68E	11	2.8			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=12.7km s-min=5.3km az=176.9.							
CSEM		Event type ke. Error ellipse: s-maj=8.3km s-min=3.8km az=5.0.							
ISC	**VI**	**14 11 10 13.7–.81**	**37.27N–.02**	**37.17E–.02**	**15–5**		**79**	**0-4**	
ISK	VI	14 11 10 13.0	37.31N	37.10E	5	3.0			¶17555941
DDA	VI	14 11 10 13.4	37.32N	37.11E	6	3.1L			
ISCJB	VI	14 11 10 14.1–.49	37.27N–.02	37.12E–.03	7–4	3.1L			
CSEM	VI	14 11 10 14.4–.20	37.28N	37.12E	10	3.0			
NSSC	VI	14 11 10 17.3–1.6	36.82N	37.46E	2–7	2.5L			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=163.6.							
CSEM		Event type ke. Error ellipse: s-maj=5.9km s-min=4.3km az=156.0.							
NSSC		Error ellipse: s-maj=9.7km s-min=4.5km az=-1.0.							
ISC	**VI**	**14 11 55 41.6–1.1**	**39.99N–.03**	**33.60E–.03**	**10–13**		**35**	**1-2**	
DDA	VI	14 11 55 40.9	39.97N	33.56E	7	2.6			¶17555942
ISCJB	VI	14 11 55 41.3–.66	39.99N–.03	33.63E–.05	3–6	2.6			
ISK	VI	14 11 55 41.4	39.98N	33.59E	10	2.5			
CSEM	VI	14 11 55 41.3–.16	39.99N	33.60E	2	2.6			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=1.3.							
CSEM		Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=102.0.							
ISC	**VI**	**14 12 32 56.9–.97**	**40.51N–.03**	**37.30E–.02**	**7–8**		**36**	**0-2**	
ISK	VI	14 12 32 55.2	40.56N	37.31E	5	2.6L			¶17555944
DDA	VI	14 12 32 56.6	40.49N	37.32E	7	2.8			
ISCJB	VI	14 12 32 57.2–.57	40.52N–.03	37.29E–.04	8–5	2.8			
CSEM	VI	14 12 32 57.1–.23	40.50N	37.31E	5	2.6L			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=8.3.							
CSEM		Event type ke. Error ellipse: s-maj=5.5km s-min=4.4km az=171.0.							
ISC	**VI**	**14 14 16 03.8–1.1**	**39.43N–.03**	**26.89E–.05**	**10–9**		**29**	**0-2**	
ISK	VI	14 14 16 02.9	39.46N	26.89E	10	2.1L			¶17555945
ISCJB	VI	14 14 16 03.7–.81	39.43N–.04	26.89E–.06	8–8	2.1L			
CSEM	VI	14 14 16 03.7–.39	39.43N	26.90E	10	2.1L			
DDA	VI	14 14 16 06.0	39.41N	26.74E	6	2.6			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=8.1km s-min=7.0km az=155.0.							
CSEM		Event type ke. Error ellipse: s-maj=13.6km s-min=7.1km az=99.0.							
ISC	**VI**	**14 14 56 17.6–.93**	**39.10N–.03**	**29.05E–.02**	**11–9**		**43**	**0-2**	
ISK	VI	14 14 56 16.7	39.09N	29.07E	6	2.3L			¶17555946
ISCJB	VI	14 14 56 17.1–.48	39.10N–.04	29.05E–.04	3–7	2.3L			
DDA	VI	14 14 56 17.0	39.11N	29.06E	13	2.6			
CSEM	VI	14 14 56 17.3–.12	39.10N	29.05E	5	2.3L			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=7.0km s-min=4.4km az=159.9.							
DDA		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=149.0.							
DDA	**VI**	**14 15 45 34.4**	**39.19N**	**29.03E**	**7**	**2.0**			
									¶602863069
ISC	**VI**	**14 17 12 34.4–1.1**	**39.05N–.04**	**29.12E–.03**	**6–11**		**22**	**0-1**	
ISK	VI	14 17 12 33.5	39.01N	29.20E	6	2.5			¶17555947
ISCJB	VI	14 17 12 34.4–.65	39.07N–.05	29.08E–.05	3–9	2.5			
CSEM	VI	14 17 12 34.3–.22	39.05N	29.11E	5	2.5			
DDA	VI	14 17 12 34.3	39.13N	29.06E	7	2.1			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=10.1km s-min=4.9km az=150.1.							
CSEM		Event type ke. Error ellipse: s-maj=7.8km s-min=4.0km az=135.0.							
ISC	**VI**	**14 18 11 41.9–1.1**	**39.16N–.03**	**29.08E–.02**	**7–10**		**34**	**0-1**	
ISK	VI	14 18 11 40.7	39.11N	29.14E	11	2.6			¶17555950
ISCJB	VI	14 18 11 41.6–.59	39.14N–.05	29.08E–.04	4–9	2.6			
DDA	VI	14 18 11 41.5	39.16N	29.08E	7	2.6			
CSEM	VI	14 18 11 41.6–.11	39.14N	29.09E	8	2.6			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=8.8km s-min=4.2km az=156.5.							
CSEM		Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=146.0.							
ISC	**VI**	**14 19 31 18.8–.98**	**39.07N–.02**	**29.05E–.02**	**8–9**		**74**	**0-2**	
ISCJB	VI	14 19 31 18.7–.49	39.07N–.03	29.04E–.03	2–6				¶17555953
DDA	VI	14 19 31 18.3	39.08N	29.04E	7	3.1L			
ISK	VI	14 19 31 18.8	39.07N	29.00E	7	2.9			
CSEM	VI	14 19 31 19.0–.11	39.08N	29.04E	2	3.1L			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=5.7km s-min=3.5km az=177.3.							
CSEM		Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=172.0.							
ISC	**VI**	**14 20 46 40.4–.94**	**39.10N–.03**	**29.05E–.02**	**9–9**		**37**	**0-1**	
ISK	VI	14 20 46 39.8	39.10N	29.07E	6	2.5			¶17555954
CSEM	VI	14 20 46 40.4–.09	39.11N	29.04E	2	2.7			
DDA	VI	14 20 46 40.1	39.12N	29.04E	10	2.7			
ISC		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=167.0.							
ISC	**VI**	**15 00 29 09.1–.93**	**39.15N–.03**	**29.08E–.03**	**11–9**		**38**	**0-2**	
ISCJB	VI	15 00 29 08.8–.55	39.15N–.04	29.06E–.04	5–6				¶17555962
DDA	VI	15 00 29 08.7	39.15N	29.08E	7	2.5L			
ISK	VI	15 00 29 08.0	39.12N	29.12E	6	2.7			
CSEM	VI	15 00 29 08.9–.10	39.14N	29.07E	8	2.5L			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=7.1km s-min=3.8km az=143.0.							
CSEM		Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=140.0.							
DDA	**VI**	**15 00 39 16.7**	**37.87N**	**29.27E**	**7**	**1.5L**			
									¶602863092
ISC	**VI**	**15 03 33 36.3–1.0**	**39.10N–.02**	**29.02E–.02**	**5–10**		**57**	**0-2**	
ISK	VI	15 03 33 35.8	39.09N	29.05E	5	2.8			¶17555963
DDA	VI	15 03 33 35.9	39.14N	28.99E	7	2.8			
CSEM	VI	15 03 33 36.4–.09	39.10N	29.04E	2	2.8			
ISC		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=146.0.							
ISC	**VI**	**15 04 07 13.6–.92**	**39.13N–.03**	**28.95E–.03**	**13–8**		**35**	**0-2**	
ISK	VI	15 04 07 12.7	39.11N	28.98E	5	2.7			¶17555964
ISCJB	VI	15 04 07 13.3–.57	39.13N–.05	28.96E–.04	5–8	2.7			
DDA	VI	15 04 07 13.0	39.13N	28.98E	7	2.8			
CSEM	VI	15 04 07 13.5–.11	39.11N	28.97E	8	2.8			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=9.1km s-min=4.1km az=149.4.							
DDA		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=140.0.							
ISC	**VI**	**15 05 23 18.9–.91**	**39.12N–.03**	**28.98E–.02**	**12–8**		**42**	**0-2**	
ISCJB	VI	15 05 23 18.9–.53	39.12N–.05	28.99E–.04	7–7				¶17555965
CSEM	VI	15 05 23 18.9–.12	39.13N	28.98E	5	2.8			
DDA	VI	15 05 23 18.5	39.12N	28.98E	7	2.8			
ISK	VI	15 05 23 18.3	39.08N	29.05E	9	2.7			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=8.3km s-min=3.7km az=153.2.							
CSEM		Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=153.0.							
DDA		Event type ke.							
ISC	**VI**	**15 07 03 52.4–1.0**	**39.08N–.04**	**29.14E–.03**	**8–10**		**28**	**0-2**	
ISK	VI	15 07 03 51.6	39.07N	29.21E	5	1.9L			¶17555966
DDA	VI	15 07 03 52.5	39.10N	29.12E	7	2.6			
CSEM	VI	15 07 03 52.3–.20	39.07N	29.16E	5	1.9L			
ISC		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=133.0.							
ISC	**VI**	**15 11 58 06.6–1.1**	**38.53N–.03**	**39.74E–.03**	**7–10**		**33**	**0-1**	
ISK	VI	15 11 58 05.9	38.51N	39.81E	8	2.9			¶17555971
DDA	VI	15 11 58 06.5	38.56N	39.82E	7	2.7			
CSEM	VI	15 11 58 06.8–.39	38.53N	39.74E	10	2.9			
ISCJB	VI	15 11 58 07.5–.55	38.55N–.04	39.73E–.06	19–12	2.9			
ISC		Event type ke.							
CSEM		Event type ke.							
ISCJB		Event type ke.							
ISC	**VI**	**15 12 14 06.3–1.1**	**40.23N–.03**	**29.13E–.02**	**4–9**		**58**	**0-1**	
ISK	VI	15 12 14 05.3	40.22N	29.11E	4	2.3L			¶17555972
DDA	VI	15 12 14 06.2	40.29N	29.06E	7	2.5			
CSEM	VI	15 12 14 06.1–.15	40.23N	29.11E	8	2.3L			
ISC		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=3.0.							
ISC	**VI**	**15 16 09 30.7–1.1**	**36.38N–.05**	**34.28E–.05**	**13–8**		**24**	**0-2**	
DDA	VI	15 16 09 29.1	36.38N	34.39E	7	2.6			¶17555973
ISCJB	VI	15 16 09 30.4–.82	36.36N–.05	34.28E–.05	9–7	2.6			
CSEM	VI	15 16 09 30.3–.27	36.37N	34.27E	12	2.6			
ISK	VI	15 16 09 30.8	36.61N	34.00E	4	2.2			
ISC		Event type ke.							
DDA		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=8.5km s-min=6.0km az=142.2.							
CSEM		Event type ke. Error ellipse: s-maj=6.9km s-min=4.5km az=145.0.							
ISC	**VI**	**15 21 40 39.1–.98**	**39.13N–.04**	**29.09E–.03**	**11–9**		**32**	**0-1**	
ISK	VI	15 21 40 38.3	39.14N	29.04E	6	2.4			¶17555977
ISCJB	VI	15 21 40 39.4–.53	39.13N–.05	29.09E–.04	5–9	2.4			
DDA	VI	15 21 40 39.2	39.13N	29.12E	7	2.8			
CSEM	VI	15 21 40 39.4–.20	39.11N	29.09E	10	2.8			
ISC		Event type ke.							
ISCJB		Event type ke. Error ellipse: s-maj=8.2km s-min=4.1km az=160.4.							
CSEM		Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=167.0.							
ISC	**VI**	**15 22 15 29.7–1.1**	**39.17N–.04**	**32.80E–.04**	**4–11**		**23**	**0-2**	
DDA	VI	15 22 15 29.6	39.15N	32.82E	1	2.6			¶17555981
CSEM	VI	15 22 15 29.9–.32	39.16N	32.82E	2	2.6			
ISK	VI	15 22 15 29.6	39.18N	32.86E	14	2.5			
ISC		Event type ke.							
CSEM		Event type ke. Error ellipse: s-maj=10.8km s-min=6.6km az=144.0.							
DDA	**VI**	**15 22 23 28.1**	**39.12N**	**29.15E**	**7**	**2.6**			
									¶602863131
ISC	**VI**	**15 22 32 02.0–1.0**	**37.11N–.05**	**28.54E–.04**	**16–7**		**27**	**0-1**	
ISK	VI	15 22 32 00.2	37.06N	28.56E	5	2.5			¶17555982
DDA	VI	15 22 32 00.8	37.06N	28.53E	7	2.7			

ISCJB	VI	15 22 32 01.3–.72	37.10N–.05	28.59E–.05	5–9	2.7		
CSEM	VI	15 22 32 01.3–.27	37.07N	28.57E	10	2.5		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=10.2km s-min=4.7km az=35.3.						
CSEM		Event type ke. Error ellipse: s-maj=9.3km s-min=4.0km az=32.0.						
ISC	**VI**	**15 22 34 34.1–1.0**	**39.08N–.03**	**29.05E–.02**	**5–9**		**56**	**0-2**
DDA	VI	15 22 34 33.9	39.11N	29.04E	7	3.0L		¶17555983
ISK	VI	15 22 34 33.6	39.07N	29.05E	6	2.7		
CSEM	VI	15 22 34 34.1–.09	39.07N	29.05E	5	3.0L		
ISC		Event type ke.						
DDA		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=155.0.						
ISC	**VI**	**15 23 02 16.6–.97**	**39.04N–.03**	**31.04E–.04**	**14–8**		**30**	**0-2**
ISK	VI	15 23 02 15.4	39.02N	31.01E	7	2.5		¶17555984
ISCJB	VI	15 23 02 16.6–.71	39.04N–.04	31.02E–.06	6–7	2.5		
CSEM	VI	15 23 02 16.4–.15	39.03N	31.03E	10	2.7		
DDA	VI	15 23 02 16.5	39.04N	31.01E	7	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=8.2km s-min=4.8km az=148.0.						
CSEM		Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=52.0.						
ISC	**VI**	**16 00 06 20.3–1.1**	**39.45N–.02**	**26.40E–.03**	**11–10**		**34**	**0-1**
ISK	VI	16 00 06 19.7	39.47N	26.41E	4	2.6		¶17555986
ISCJB	VI	16 00 06 20.5–.46	39.47N–.03	26.40E–.05	10–5	2.6		
DDA	VI	16 00 06 20.1	39.46N	26.34E	7	2.7		
CSEM	VI	16 00 06 20.5–.20	39.46N	26.40E	5	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.6km s-min=3.8km az=159.7.						
CSEM		Event type ke. Error ellipse: s-maj=6.1km s-min=3.5km az=81.0.						
ISC	**VI**	**16 02 52 32.5–1.1**	**40.04N–.02**	**42.90E–.03**	**7–10**		**36**	**0-1**
ISCJB	VI	16 02 52 32.7–.61	40.03N–.03	42.90E–.05	11–6			¶17555991
DDA	VI	16 02 52 32.8	40.02N	42.84E	7	2.9		
CSEM	VI	16 02 52 32.6–.26	40.03N	42.89E	12	2.9		
ISK	VI	16 02 52 32.0	40.06N	42.99E	14	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.0km s-min=4.7km az=168.4.						
CSEM		Event type ke. Error ellipse: s-maj=7.5km s-min=4.7km az=85.0.						
ISC	**VI**	**16 05 19 18.5–1.1**	**37.63N–.03**	**36.15E–.02**	**4–10**		**47**	**0-2**
DDA	VI	16 05 19 17.9	37.59N	36.17E	7	3.0		¶17555992
ISK	VI	16 05 19 18.5	37.63N	36.14E	7	2.7		
CSEM	VI	16 05 19 19.2–.19	37.63N	36.10E	10	2.7		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=1.0.						
ISC	**VI**	**16 06 35 41.5–1.3**	**37.67N–.06**	**35.76E–.05**	**11–10**		**26**	**0-1**
ISK	VI	16 06 35 40.8	37.65N	35.86E	18	2.4		¶17555994
CSEM	VI	16 06 35 41.3–1.1	37.62N	35.91E	10	2.7		
ISCJB	VI	16 06 35 43.9–.65	37.55N–.03	35.69E–.04	8–6	2.7		
DDA	VI	16 06 35 44.5	37.38N	35.63E	9	2.7		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=28.8km s-min=12.3km az=85.0.						
ISCJB		Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=36.5.						
DDA		Event type ke.						
ISC	**VI**	**16 06 37 00.2–1.2**	**37.56N–.03**	**35.74E–.03**	**18–6**		**28**	**0-1**
ISK	VI	16 06 36 59.8	37.53N	36.00E	4	2.4		¶17555995
ISCJB	VI	16 06 37 00.5–.73	37.57N–.04	35.73E–.04	10–4	2.4		
DDA	VI	16 06 37 00.6	37.55N	35.70E	7	2.9		
CSEM	VI	16 06 37 00.4–.47	37.56N	35.71E	5	2.9		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.1km s-min=5.1km az=29.1.						
DDA		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=10.9km s-min=7.1km az=54.0.						
ISC	**VI**	**16 06 59 22.7–1.1**	**39.16N–.04**	**29.03E–.06**	**12–14**		**28**	**0-1**
CSEM	VI	16 06 59 22.8–.12	39.15N	29.07E	15	2.7		¶17555996
ISK	VI	16 06 59 22.0	39.19N	29.00E	8	2.6		
ISCJB	VI	16 06 59 23.1–.56	39.16N–.06	29.08E–.06	17–13	2.6		
DDA	VI	16 06 59 23.5	39.11N	29.09E	7	2.7		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=124.0.						
ISCJB		Event type ke. Error ellipse: s-maj=11.1km s-min=5.5km az=148.5.						
DDA		Event type ke.						
ISC	**VI**	**16 08 09 54.0–.93**	**39.15N–.03**	**29.07E–.02**	**12–8**		**42**	**0-2**
ISK	VI	16 08 09 52.9	39.15N	29.07E	6	2.7		¶17555997
ISCJB	VI	16 08 09 53.7–.49	39.14N–.03	29.06E–.03	3–7	2.7		
DDA	VI	16 08 09 53.9	39.16N	29.08E	7	2.8		
CSEM	VI	16 08 09 53.8–.10	39.15N	29.07E	8	2.8		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=161.8.						
CSEM		Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=155.0.						
ISC	**VI**	**16 08 38 50.5–1.0**	**39.14N–.02**	**29.04E–.02**	**5–10**		**71**	**0-2**
DDA	VI	16 08 38 50.3	39.13N	29.03E	8	2.9		¶17555998
ISK	VI	16 08 38 50.0	39.13N	29.04E	5	2.8		
CSEM	VI	16 08 38 50.6–.09	39.12N	29.03E	5	2.9		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=153.0.						
ISC	**VI**	**16 09 04 46.1–.91**	**39.03N–.04**	**29.10E–.04**	**9**		**26**	**0-2**
ISK	VI	16 09 04 45.2	39.03N	29.11E	7	2.4		¶17555999
ISCJB	VI	16 09 04 46.3–.56	39.05N–.04	29.05E–.04	9	2.4		
DDA	VI	16 09 04 46.6	39.09N	29.04E	7	2.5		
CSEM	VI	16 09 04 46.0–.20	39.04N	29.08E	8	2.4		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.1km s-min=3.9km az=148.0.						
CSEM		Event type ke. Error ellipse: s-maj=6.4km s-min=3.1km az=132.0.						
ISC	**VI**	**16 09 46 30.2–1.0**	**39.11N–.03**	**29.03E–.02**	**6–10**		**55**	**0-2**
ISCJB	VI	16 09 46 29.9–.51	39.10N–.04	29.04E–.03	4–7			¶17556001
DDA	VI	16 09 46 29.8	39.09N	29.04E	6	2.7		
ISK	VI	16 09 46 29.7	39.12N	29.04E	6	2.7		
CSEM	VI	16 09 46 30.1–.09	39.10N	29.05E	6–1	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.3km s-min=3.9km az=172.4.						
CSEM		Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=170.0.						
ISC	**VI**	**16 10 46 55.5–.98**	**38.10N–.05**	**30.12E–.04**	**13**		**20**	**0-1**
ISK	VI	16 10 46 53.8	38.14N	30.14E	5	2.4		¶17556003
ISCJB	VI	16 10 46 55.3–.85	38.06N–.05	30.06E–.06	13	2.4		
CSEM	VI	16 10 46 55.1–.30	38.09N	30.06E	2	2.4		
DDA	VI	16 10 46 56.6	38.03N	30.20E	7	2.9		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=8.6km s-min=5.4km az=42.9.						
CSEM		Event type ke. Error ellipse: s-maj=8.5km s-min=5.7km az=45.0.						
ISC	**VI**	**16 11 26 39.0–.99**	**39.53N–.03**	**39.90E–.04**	**14–8**		**28**	**0-1**
DDA	VI	16 11 26 38.5	39.53N	39.92E	7	2.6		¶17556005
ISK	VI	16 11 26 38.6	39.53N	39.88E	16	2.6		
ISCJB	VI	16 11 26 39.4–.56	39.52N–.03	39.91E–.04	7–6	2.6		
CSEM	VI	16 11 26 39.4–.21	39.53N	39.89E	2	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=41.6.						
CSEM		Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=49.0.						
ISC	**VI**	**16 11 49 49.5–1.0**	**39.38N–.01**	**27.99E–.02**	**7–8**		**183**	**0-6**
ISK	VI	16 11 49 48.9	39.39N	28.01E	4	3.4L		¶16883084
DDA	VI	16 11 49 49.3	39.39N	27.94E	7	3.5L		
CSEM	VI	16 11 49 49.6–.10	39.38N	27.99E	5	3.4L		
THE	VI	16 11 49 49.8	39.33N	28.02E	5–1	3.2L		
ISCJB	VI	16 11 49 49.1–.48	39.38N–.02	27.98E–.02	4–3	3.2L		
ATH	VI	16 11 49 50.6	39.37N	27.86E	28–8	3.1L		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=136.0.						
THE		Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=102.0.						
ISCJB		Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=31.4.						
ATH		Event type ke. Error ellipse: s-maj=8.6km s-min=2.5km az=93.0.						
ISC	**VI**	**16 12 50 44.5–.85**	**39.10N–.03**	**29.00E–.02**	**9**		**43**	**0-2**
ISCJB	VI	16 12 50 44.6–.45	39.11N–.04	28.99E–.03	9			¶17556007
DDA	VI	16 12 50 44.6	39.11N	29.00E	7	2.6		
CSEM	VI	16 12 50 44.7–.08	39.09N	28.98E	10	2.6		
ISK	VI	16 12 50 44.3	39.10N	28.98E	11	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=174.4.						
DDA		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=2.0.						
ISC	**VI**	**16 15 23 36.9–.97**	**38.12N–.02**	**27.22E–.03**	**11–8**		**39**	**0-2**
ISCJB	VI	16 15 23 36.7–.52	38.12N–.03	27.23E–.04	7–5			¶17556009
DDA	VI	16 15 23 36.5	38.12N	27.20E	7	2.7		
ISK	VI	16 15 23 36.7	38.13N	27.24E	12	2.7		
CSEM	VI	16 15 23 37.1–.11	38.12N	27.25E	10	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=140.0.						
CSEM		Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=70.0.						
ISC	**VI**	**16 19 01 42.3–1.0**	**39.13N–.03**	**29.02E–.03**	**9–9**		**32**	**0-1**
DDA	VI	16 19 01 41.6	39.14N	29.02E	7	2.6		¶17556015
ISK	VI	16 19 01 41.5	39.13N	29.03E	4	2.4		
ISCJB	VI	16 19 01 42.1–.65	39.13N–.06	29.02E–.04	2–9	2.4		
CSEM	VI	16 19 01 42.1–.11	39.12N	29.02E	5	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=10.6km s-min=5.0km az=163.3.						
CSEM		Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=144.0.						
ISC	**VI**	**16 20 05 41.2–.99**	**39.13N–.03**	**28.97E–.02**	**7–10**		**50**	**0-2**
ISCJB	VI	16 20 05 40.9–.64	39.13N–.05	28.97E–.04	3–9			¶17556016
ISK	VI	16 20 05 40.7	39.12N	28.98E	8	2.5		
DDA	VI	16 20 05 40.5	39.16N	28.96E	7	2.7		
CSEM	VI	16 20 05 41.0–.06	39.12N	28.96E	5	2.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=9.1km s-min=4.6km az=168.1.						
CSEM		Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=32.0.						
ISC	**VI**	**16 20 21 08.5–1.1**	**39.09N–.02**	**29.02E–.02**	**1–10**		**72**	**0-2**
ISCJB	VI	16 20 21 08.4–.55	39.10N–.04	29.00E–.03	0–7			¶17556017
DDA	VI	16 20 21 08.0	39.10N	29.02E	7	2.8L		
CSEM	VI	16 20 21 08.8–.09	39.09N	29.00E	2	2.8L		
ISK	VI	16 20 21 08.4	39.08N	28.98E	6	2.9		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=175.8.						
CSEM		Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=169.0.						
ISC	**VI**	**16 20 42 25.8–.97**	**38.55N–.03**	**31.23E–.02**	**11–8**		**48**	**0-2**
DDA	VI	16 20 42 24.8	38.52N	31.24E	7	2.6		¶17556018
ISCJB	VI	16 20 42 25.5–.52	38.54N–.02	31.25E–.03	0–5	2.6		
ISK	VI	16 20 42 25.1	38.55N	31.24E	2	2.8		
CSEM	VI	16 20 42 25.7–.19	38.54N	31.25E	2	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=4.5km s-min=3.9km az=136.3.						
CSEM		Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=43.0.						
ISC	**VI**	**17 00 21 38.0–.88**	**40.85N–.05**	**27.95E–.03**	**12**		**28**	**0-1**
ISCJB	VI	17 00 21 38.6–.54	40.85N–.06	27.96E–.04	12			¶17556020
DDA	VI	17 00 21 38.3	40.84N	27.99E	7	2.6		
CSEM	VI	17 00 21 38.8–.16	40.86N	27.94E	15	2.5		
ISK	VI	17 00 21 38.5	40.85N	27.96E	16	2.5		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=9.4km s-min=3.7km az=158.8.						
CSEM		Event type ke. Error ellipse: s-maj=5.4km s-min=2.7km az=154.0.						
ISC	**VI**	**17 00 40 47.9–.99**	**39.12N–.01**	**27.90E–.01**	**13–9**		**221**	**0-7**
ATH	VI	17 00 40 44.6	39.10N	28.12E	13–2	3.1L		¶16883115
DDA	VI	17 00 40 47.6	39.13N	27.90E	25	3.6L		
ISK	VI	17 00 40 47.2	39.14N	27.89E	5	3.2L		
CSEM	VI	17 00 40 48.3–.10	39.11N	27.89E	5	3.2L		
THE	VI	17 00 40 50.1	39.11N	27.98E	19–6	3.1L		
ISC		Event type ke.						
ATH		Event type ke. Error ellipse: s-maj=3.9km s-min=2.1km az=267.0.						
CSEM		Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=45.0.						
THE		Event type ke. Error ellipse: s-maj=6.8km s-min=1.2km az=87.0.						
ISC	**VI**	**17 02 39 55.9–1.0**	**39.10N–.03**	**29.08E–.02**	**6–12**		**45**	**0-2**
ISK	VI	17 02 39 54.5	39.07N	29.12E	5	2.7		¶17556022
DDA	VI	17 02 39 55.4	39.13N	29.07E	7	2.8		
CSEM	VI	17 02 39 55.7–.12	39.09N	29.10E	2	2.7		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=141.0.						
ISC	**VI**	**17 03 46 36.2–.99**	**39.12N–.03**	**29.09E–.03**	**10–10**		**32**	**0-1**
ISCJB	VI	17 03 46 36.0–.58	39.11N–.05	29.10E–.05	5–8			¶17556024
ISK	VI	17 03 46 35.1	39.09N	29.14E	7	2.5		
CSEM	VI	17 03 46 36.0–.14	39.12N	29.10E	5	2.5		
DDA	VI	17 03 46 36.0	39.12N	29.09E	7	2.5		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=9.4km s-min=4.7km az=150.7.						
CSEM		Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=134.0.						
ISC	**VI**	**17 07 34 25.5–.99**	**36.94N–.03**	**29.37E–.02**	**8–9**		**32**	**0-1**
ISK	VI	17 07 34 24.8	36.94N	29.36E	9	2.3L		¶17556030
ISCJB	VI	17 07 34 25.5–.58	36.96N–.03	29.34E–.04	15–16	2.3L		
CSEM	VI	17 07 34 25.6–.28	36.96N	29.37E	10	2.3L		
DDA	VI	17 07 34 26.8	37.00N	29.38E	7	2.8		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.5km s-min=4.3km az=38.7.						
CSEM		Event type ke. Error ellipse: s-maj=6.1km s-min=5.5km az=143.0.						
ISC	**VI**	**17 12 09 56.8–1.1**	**39.12N–.04**	**28.98E–.03**	**9**		**18**	**0-1**
ISK	VI	17 12 09 55.7	39.01N	29.18E	11	1.9L		¶17556039
ISCJB	VI	17 12 09 56.6–.66	39.10N–.05	28.99E–.05	9	1.9L		
DDA	VI	17 12 09 56.7	39.11N	28.98E	7	2.5		
CSEM	VI	17 12 09 56.7–.21	39.10N	28.98E	5	1.9L		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=8.3km s-min=4.2km az=147.3.						
DDA		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=7.0km s-min=4.0km az=137.0.						
ISC	**VI**	**17 19 03 11.7–.97**	**39.13N–.04**	**29.10E–.03**	**11–9**		**34**	**0-2**
ISCJB	VI	17 19 03 11.6–.63	39.13N–.06	29.10E–.04	5–8			¶17556045
CSEM	VI	17 19 03 11.6–.13	39.11N	29.11E	8	2.6		
DDA	VI	17 19 03 11.3	39.13N	29.10E	7	2.6		
ISK	VI	17 19 03 11.0	39.13N	29.12E	5	2.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=10.3km s-min=4.9km az=162.1.						
CSEM		Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=144.0.						
ISC	**VI**	**18 00 26 14.2–.94**	**39.09N–.02**	**29.06E–.02**	**10–9**		**70**	**0-2**
ISCJB	VI	18 00 26 13.9–.52	39.08N–.04	29.05E–.03	5–5			¶17556048
DDA	VI	18 00 26 13.7	39.11N	29.04E	6	2.8		
ISK	VI	18 00 26 13.7	39.08N	29.07E	8	2.8		
CSEM	VI	18 00 26 14.0–.09	39.08N	29.06E	5	2.8		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=164.6.						
CSEM		Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=163.0.						
ISC	**VI**	**18 00 40 19.7–.99**	**39.70N–.03**	**27.65E–.03**	**18–6**		**42**	**0-2**
ISCJB	VI	18 00 40 19.7–.59	39.70N–.04	27.66E–.05	16–6			¶17556049
DDA	VI	18 00 40 19.3	39.68N	27.64E	7	2.6		
CSEM	VI	18 00 40 19.5–.07	39.70N	27.65E	14–0	2.5		
ISK	VI	18 00 40 19.1	39.70N	27.64E	15	2.5		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=7.4km s-min=6.5km az=35.9.						
CSEM		Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=147.0.						
ISC	**VI**	**18 01 40 16.3–1.2**	**39.13N–.04**	**29.12E–.03**	**1–14**		**33**	**0-2**
DDA	VI	18 01 40 15.6	39.11N	29.11E	7	2.6		¶17556050
ISK	VI	18 01 40 15.2	39.06N	29.24E	5	2.7		
CSEM	VI	18 01 40 16.0–.19	39.08N	29.14E	2	2.6		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=148.0.						
ISC	**VI**	**18 03 41 14.6–.83**	**40.33N–.02**	**27.70E–.01**	**13–6**		**118**	**0-2**
ATH	VI	18 03 41 13.3	40.30N	27.67E	19–2	2.2L		¶16883185
ISCJB	VI	18 03 41 14.2–.36	40.34N–.02	27.71E–.02	5–3	2.2L		
CSEM	VI	18 03 41 14.5–.09	40.34N	27.69E	8	2.7		
THE	VI	18 03 41 14.6	40.29N	27.77E	6–3	2.3L		
ISK	VI	18 03 41 14.0	40.34N	27.70E	5	2.7		
DDA	VI	18 03 41 14.3	40.32N	27.71E	10	2.7		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.7km s-min=1.6km az=47.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=166.2.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=172.0.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=1.0km az=116.0.
ISC VI 18 06 48 04.5–.96 39.14N–.03 29.02E–.02 9–9 46 0-2
ISK VI 18 06 48 03.7 39.14N 29.02E 6 2.7 ¶17556055
ISCJB VI 18 06 48 04.4–.49 39.14N–.04 29.02E–.04 8–6 2.7
DDA VI 18 06 48 04.0 39.16N 29.03E 7 2.4
CSEM VI 18 06 48 04.5–.08 39.14N 29.03E 8 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.0km az=151.7.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=144.0.
ISC VI 18 07 09 06.0–.89 39.08N–.03 29.08E–.03 9 28 0-1
ISCJB VI 18 07 09 05.8–.57 39.06N–.05 29.09E–.04 9 ¶17556058
DDA VI 18 07 09 05.5 39.09N 29.08E 7 2.3
CSEM VI 18 07 09 05.8–.14 39.07N 29.11E 5 2.3
ISK VI 18 07 09 05.5 39.07N 29.14E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.0km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=138.0.
ISC VI 18 07 50 35.2–.88 40.66N–.02 26.14E–.02 12–7 176 0-5
ISK VI 18 07 50 34.2 40.67N 26.14E 8 3.2L ¶16883191
DDA VI 18 07 50 34.8 40.65N 26.19E 20 3.5L
ATH VI 18 07 50 34.9 40.66N 26.11E 30–1 2.7L
ISCJB VI 18 07 50 34.8–.38 40.67N–.02 26.15E–.02 9–3 2.7L
CSEM VI 18 07 50 35.1–.10 40.67N 26.15E 10 2.9L
THE VI 18 07 50 35.4 40.67N 26.15E 11–0 2.9L
SOF VI 18 07 50 36.3 40.69N 26.05E 10 2.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.4km az=231.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=157.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=160.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=279.0.
ISC VI 18 09 09 39.4–1.1 39.71N–.03 30.00E–.02 7–11 45 0-1
ISCJB VI 18 09 09 39.3–.56 39.72N–.04 30.00E–.04 1–7 ¶17556061
DDA VI 18 09 09 39.8 39.71N 30.04E 7 2.6
CSEM VI 18 09 09 39.5–.15 39.71N 30.00E 10 2.6
ISK VI 18 09 09 39.2 39.72N 30.00E 13 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=154.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=161.0.
ISC VI 18 12 31 30.1–1.0 40.00N–.02 30.15E–.02 5–9 67 0-2
ISK VI 18 12 31 29.4 40.00N 30.15E 5 2.8 ¶17556067
DDA VI 18 12 31 30.0 39.98N 30.14E 7 2.7
CSEM VI 18 12 31 30.0–.11 40.00N 30.15E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=66.0.
ISC VI 18 13 26 59.4–1.1 39.98N–.03 28.73E–.04 11–10 37 0-2
ISK VI 18 13 26 58.6 39.97N 28.73E 6 2.6 ¶17556069
DDA VI 18 13 26 59.3 40.04N 28.73E 15 2.5
CSEM VI 18 13 26 59.2–.25 39.97N 28.75E 10 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=76.0.
ISC VI 18 14 23 21.5–1.4 37.08N–.07 42.55E–.04 10 27 0-3
ISCJB VI 18 14 23 22.3–.99 37.15N–.06 42.57E–.06 10 ¶17556071
CSEM VI 18 14 23 22.4–.28 37.13N 42.53E 8 2.4
ISN VI 18 14 23 23.6–.30 37.09N 42.71E 0 3.0L
ISK VI 18 14 23 23.1 37.26N 42.60E 22 2.8
DDA VI 18 14 23 26.2 37.45N 42.18E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=6.9km az=174.9.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=5.0.
ISN Error ellipse: s-maj=2.7km s-min=1.6km az=-1.0.
ISC VI 18 14 24 34.8–.88 38.27N–.04 27.19E–.03 15–6 25 0-1
ISCJB VI 18 14 24 34.7–.58 38.25N–.04 27.21E–.04 13–4 ¶17556072
CSEM VI 18 14 24 34.7–.16 38.26N 27.21E 14–1 2.5
DDA VI 18 14 24 34.8 38.25N 27.20E 7 2.5
ISK VI 18 14 24 34.3 38.28N 27.21E 16 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=171.4.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.9km az=5.0.
ISC VI 18 15 02 39.9–.96 40.18N–.03 27.70E–.02 9–8 46 0-2
CSEM VI 18 15 02 39.7–.15 40.15N 27.70E 5 2.7 ¶17556074
ISK VI 18 15 02 39.0 40.17N 27.68E 6 2.7
DDA VI 18 15 02 40.0 40.19N 27.72E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=26.0.
ISC VI 18 15 08 58.8–.88 39.74N–.02 27.49E–.02 13–7 66 0-2
CSEM VI 18 15 08 58.9–.22 39.73N 27.50E 5 2.7 ¶17556075
ISK VI 18 15 08 58.6 39.76N 27.52E 10 2.5
ATH VI 18 15 08 59.9 39.70N 27.44E 12–2 2.2L
DDA VI 18 15 08 59.9 39.77N 27.51E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.8km az=51.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=277.0.
ISC VI 19 00 56 05.0–.97 39.11N–.02 29.04E–.02 8–8 94 0-2
ISK VI 19 00 56 03.7 39.09N 29.03E 5 3.0 ¶17556079
DDA VI 19 00 56 04.6 39.12N 29.03E 7 3.0
CSEM VI 19 00 56 04.9–.14 39.10N 29.04E 0–1 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.9km az=174.0.
ISC VI 19 01 49 20.1–.91 37.73N–.03 27.46E–.03 14–8 30 0-1
ISCJB VI 19 01 49 20.2–.49 37.72N–.03 27.48E–.04 8–6 ¶17556081
CSEM VI 19 01 49 20.4–.15 37.74N 27.45E 5 2.7
DDA VI 19 01 49 20.6 37.69N 27.42E 8 2.6
ISK VI 19 01 49 20.3 37.76N 27.47E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.4km az=38.9.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.3km az=95.0.
ISC VI 19 05 03 04.4–.98 39.11N–.03 29.03E–.02 7–9 62 0-2
DDA VI 19 05 03 03.8 39.11N 29.03E 7 2.8 ¶17556083
ISK VI 19 05 03 03.8 39.11N 29.02E 5 2.7
ISCJB VI 19 05 03 04.0–.56 39.12N–.05 29.02E–.03 1–8 2.7
CSEM VI 19 05 03 04.2–.06 39.12N 29.02E 3–0 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.6km az=175.9.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=179.0.
ISC VI 19 06 56 16.6–2.9 36.1N–.10 29.67E–.04 2–11 25 0-2
CSEM VI 19 06 56 16.5–.75 36.05N 29.67E 2 2.7 ¶17556085
ISK VI 19 06 56 18.1 36.18N 29.66E 5 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.5km s-min=7.5km az=167.0.
ISC VI 19 08 57 15.4–.96 39.13N–.05 29.12E–.03 9 22 0-1
ISK VI 19 08 57 14.4 39.11N 29.15E 9 2.5 ¶17556087
CSEM VI 19 08 57 14.9–.09 39.11N 29.13E 8 2.5
ISCJB VI 19 08 57 15.1–.66 39.12N–.05 29.12E–.05 9 2.5
DDA VI 19 08 57 15.2 39.07N 29.12E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.7km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.5km az=154.0.
ISC VI 19 09 05 09.5–.87 39.14N–.03 29.08E–.03 9 34 0-2
ISK VI 19 09 05 08.9 39.16N 29.07E 5 2.7 ¶17556089
ISCJB VI 19 09 05 09.3–.50 39.13N–.04 29.08E–.04 9 2.7
CSEM VI 19 09 05 09.4–.09 39.14N 29.07E 8 2.7
DDA VI 19 09 05 09.3 39.08N 29.09E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.0km az=151.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=131.0.
ISC VI 19 09 55 33.4–1.2 37.23N–.03 28.20E–.03 5–12 30 0-2
DDA VI 19 09 55 32.9 37.23N 28.25E 7 2.7 ¶17556091
CSEM VI 19 09 55 33.5–.22 37.27N 28.18E 5 2.7
ISK VI 19 09 55 33.4 37.23N 28.14E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=175.0.
ISC VI 19 10 49 40.9–.85 39.10N–.03 29.03E–.03 9 30 0-2
DDA VI 19 10 49 40.8 39.16N 28.98E 7 2.8 ¶17556093
ISK VI 19 10 49 40.9 39.10N 29.06E 10 2.7
ISCJB VI 19 10 49 41.3–.50 39.11N–.04 29.01E–.04 9 2.7
CSEM VI 19 10 49 41.3–.11 39.11N 29.02E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.8km az=147.1.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=144.0.
ISC VI 19 13 51 28.1–.91 39.05N–.04 29.10E–.03 9 25 0-2
DDA VI 19 13 51 27.7 39.12N 29.04E 7 2.7 ¶17556100
CSEM VI 19 13 51 27.1–.25 38.98N 29.12E 5 2.7
ISCJB VI 19 13 51 28.5–.65 39.09N–.06 29.04E–.05 9 2.7
ISK VI 19 13 51 28.3 39.06N 29.17E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=2.9km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.3km az=155.0.
ISC VI 19 14 16 46.0–.92 39.09N–.04 29.16E–.03 10 22 0-1
ISK VI 19 14 16 45.6 39.10N 29.16E 8 2.6 ¶17556101
ISCJB VI 19 14 16 46.2–.67 39.10N–.05 29.12E–.05 10 2.6
DDA VI 19 14 16 46.5 39.06N 29.11E 7 2.8
CSEM VI 19 14 16 46.1–.13 39.09N 29.14E 10 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.9km az=163.5.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=121.0.
ISC VI 19 17 43 36.3–.84 40.04N–.01 41.84E–.01 8–6 129 0-5
ISK VI 19 17 43 34.4 40.04N 41.83E 5 3.4L ¶17556103
CSEM VI 19 17 43 35.9–.16 40.05N 41.83E 2 3.5L
DDA VI 19 17 43 35.5 40.04N 41.83E 10 3.5L
IASPE VI 19 17 43 36.1–.93 40.05N–.02 41.86E–.02 9–6 3.5L
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISC VI 19 21 56 43.1–.98 37.06N–.04 28.55E–.03 15–8 26 0-1
ISK VI 19 21 56 41.2 37.07N 28.59E 5 2.6 ¶17556107
ISCJB VI 19 21 56 42.3–.57 37.04N–.04 28.53E–.05 5–12 2.6
DDA VI 19 21 56 42.4 37.05N 28.49E 7 2.3
CSEM VI 19 21 56 42.2–.21 37.06N 28.56E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.8km az=44.8.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=3.6km az=39.0.
ISC VI 19 22 20 43.7–.86 39.42N–.01 26.15E–.02 10–7 100 0-3
DDA VI 19 22 20 43.1 39.40N 26.16E 7 2.7 ¶16883237
ISCJB VI 19 22 20 43.5–.42 39.41N–.02 26.15E–.03 4–4 2.7
THE VI 19 22 20 43.6 39.41N 26.14E 4–3 2.0L
ATH VI 19 22 20 43.6 39.42N 26.16E 8–3 1.8L
CSEM VI 19 22 20 43.6–.10 39.42N 26.16E 3–1 1.8L
ISK VI 19 22 20 43.3 39.42N 26.14E 10 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=174.3.
THE Event type ke. Error ellipse: s-maj=3.5km s-min=0.5km az=131.0.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=0.9km az=251.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=80.0.
ISC VI 19 22 29 12.6–1.0 39.11N–.02 29.04E–.02 7–9 62 0-2
DDA VI 19 22 29 12.0 39.08N 29.02E 7 2.5 ¶17556108
ISCJB VI 19 22 29 12.6–.47 39.12N–.04 29.02E–.03 3–5 2.5
CSEM VI 19 22 29 12.9–.11 39.11N 29.04E 5 2.9
ISK VI 19 22 29 12.3 39.14N 29.03E 3 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.6km az=175.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=177.0.
ISC VI 19 23 37 11.0–1.2 37.51N–.02 32.25E–.02 9–12 106 0-4
ISK VI 19 23 37 11.5 37.57N 32.20E 5 3.4L ¶17330133
CSEM VI 19 23 37 12.7–.14 37.55N 32.23E 10 3.4L
NIC VI 19 23 37 13.8–.40 37.59N 31.89E 25 4.2b,3.8L
DDA VI 19 23 37 14.1 37.04N 31.53E 5 2.9,3.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=165.0.
ISC VI 20 05 18 10.1–.91 39.16N–.03 29.07E–.02 12–8 42 0-1
DDA VI 20 05 18 09.6 39.16N 29.07E 7 3.1 ¶17556116
ISK VI 20 05 18 09.6 39.16N 29.06E 10 2.5
ISCJB VI 20 05 18 10.1–.46 39.15N–.04 29.06E–.03 4–7 2.5
CSEM VI 20 05 18 10.3–.12 39.15N 29.08E 10 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=171.4.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=1.0.
ISC VI 20 05 51 40.5–.95 39.26N–.04 28.96E–.04 9 20 0-1
ISK VI 20 05 51 39.8 39.22N 28.89E 6 2.0 ¶17556117
CSEM VI 20 05 51 40.9–.50 39.26N 28.97E 5 2.0
ISCJB VI 20 05 51 41.3–.70 39.23N–.05 29.01E–.05 9 2.0
DDA VI 20 05 51 42.4 39.12N 29.07E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=10.9km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=157.0.
DDA Event type ke.
ISC VI 20 08 42 27.3–.89 37.20N–.05 28.21E–.03 13–6 24 0-1
ISK VI 20 08 42 26.4 37.19N 28.20E 16 2.6 ¶17556122
ISCJB VI 20 08 42 27.2–.59 37.20N–.06 28.20E–.04 11–8 2.6
CSEM VI 20 08 42 27.2–.16 37.20N 28.21E 12 2.6
DDA VI 20 08 42 27.4 37.23N 28.19E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=5.0km az=14.5.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=9.0.
ISC VI 20 09 09 38.3–1.1 39.34N–.03 40.94E–.04 4–13 34 0-2
ISK VI 20 09 09 37.5 39.37N 40.95E 5 2.4L ¶17556126
ISCJB VI 20 09 09 38.5–.52 39.36N–.03 40.95E–.07 8–6 2.4L
DDA VI 20 09 09 38.4 39.36N 40.94E 7 2.9
CSEM VI 20 09 09 38.1–.16 39.35N 40.96E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=21.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.9km az=118.0.
ISC VI 20 10 09 38.7–1.1 39.14N–.03 29.09E–.03 5–11 28 0-1
ISK VI 20 10 09 37.5 39.13N 29.10E 5 2.2L ¶17556129
DDA VI 20 10 09 38.5 39.15N 29.09E 7 2.6
CSEM VI 20 10 09 38.3–.11 39.13N 29.09E 5 2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=152.0.
ISC VI 20 10 40 43.0–.95 37.24N–.03 35.44E–.02 9–9 34 0-1
ISK VI 20 10 40 42.5 37.22N 35.46E 8 2.1L ¶17556130
CSEM VI 20 10 40 42.9–.24 37.20N 35.46E 15 2.1L
ISCJB VI 20 10 40 43.2–.49 37.24N–.03 35.44E–.03 2–8 2.1L
DDA VI 20 10 40 43.5 37.33N 35.39E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.7km az=169.2.
ISC VI 20 10 49 22.0–.87 40.77N–.03 27.33E–.02 14–6 44 0-1
DDA VI 20 10 49 21.9 40.78N 27.32E 9 2.6 ¶17556131
ISK VI 20 10 49 21.8 40.75N 27.33E 12 2.1L
ISCJB VI 20 10 49 22.1–.46 40.76N–.03 27.35E–.03 9–5 2.1L
CSEM VI 20 10 49 22.2–.07 40.75N 27.34E 10 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=161.6.

CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=168.0.
ISC VI 20 11 31 48.9–.95 37.54N–.03 35.70E–.03 11–6 35 0-1
ISCJB VI 20 11 31 49.0–.59 37.54N–.03 35.72E–.04 10–4 ¶17556132
CSEM VI 20 11 31 48.9–.18 37.54N 35.70E 12 2.3L
ISK VI 20 11 31 48.1 37.57N 35.68E 7 2.3L
DDA VI 20 11 31 49.0 37.54N 35.69E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.9km az=40.9.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=72.0.
ISC VI 20 13 52 10.0–1.4 38.86N–.06 28.81E–.08 20–3 22 0-1
CSEM VI 20 13 52 09.8–.19 38.86N 28.80E 20 2.2L ¶17556136
ISK VI 20 13 52 09.5 38.85N 28.82E 21 2.2L
ISCJB VI 20 13 52 10.2–.92 38.84N–.05 28.81E–.07 23–10 2.2L
DDA VI 20 13 52 10.2 38.82N 28.87E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=3.4km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.8km az=41.7.
ISC VI 20 14 23 58.8–1.1 37.19N–.03 38.94E–.03 9–9 32 0-2
DDA VI 20 14 23 58.0 37.16N 38.93E 7 2.8 ¶17556137
CSEM VI 20 14 23 59.5–.74 37.24N 38.95E 2 2.9
NSSC VI 20 14 24 00.0–4.9 36.58N 38.85E 26–32 2.0L
ISK VI 20 14 24 01.9 37.47N 38.67E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=8.5km az=122.0.
NSSC Error ellipse: s-maj=45.6km s-min=81.7km az=-1.0.
ISC VI 20 18 17 23.1–.86 37.25N–.03 30.37E–.04 10 24 0-2
ISK VI 20 18 17 22.8 37.24N 30.38E 5 2.6 ¶17556141
ISCJB VI 20 18 17 24.3–.58 37.23N–.03 30.41E–.05 10 2.6
CSEM VI 20 18 17 24.0–.21 37.24N 30.36E 2 2.7
DDA VI 20 18 17 25.7 37.14N 30.24E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=19.9.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=156.0.
DDA Event type ke.
ISC VI 20 19 26 32.6–.98 37.49N–.04 35.70E–.04 10–7 20 0-1
CSEM VI 20 19 26 30.7–.53 37.56N 35.97E 15 2.5 ¶17556142
ISCJB VI 20 19 26 32.7–.63 37.51N–.05 35.69E–.04 4–7 2.5
ISK VI 20 19 26 32.8 37.44N 35.78E 11 2.5
DDA VI 20 19 26 34.8 37.57N 35.44E 6 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.7km s-min=9.2km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.4km az=174.5.
ISC VI 20 22 54 49.3–1.2 39.12N–.04 29.05E–.04 5–11 26 0-2
DDA VI 20 22 54 48.5 39.10N 29.03E 7 2.7 ¶17556144
ISK VI 20 22 54 49.4 39.14N 29.07E 4 2.6
CSEM VI 20 22 54 49.6–.17 39.13N 29.04E 2 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=133.0.
ISC VI 21 00 48 48.6–.94 39.16N–.02 29.08E–.01 10–9 174 0-3
ISK VI 21 00 48 47.9 39.16N 29.10E 5 3.3L ¶17556145
DDA VI 21 00 48 48.3 39.15N 29.07E 10 3.2L
CSEM VI 21 00 48 49.5–.12 39.16N 29.12E 2 3.3L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=155.0.
ISC VI 21 00 55 52.3–.94 39.16N–.01 29.10E–.01 10–9 245 0-8
ATH VI 21 00 55 49.4 39.12N 29.15E 10–31 ¶17556146
DDA VI 21 00 55 51.5 39.16N 29.09E 10 3.5L
ISK VI 21 00 55 52.1 39.16N 29.11E 5 3.2L
CSEM VI 21 00 55 53.0–.13 39.17N 29.12E 2 3.2L
SOF VI 21 00 55 59.8 39.76N 28.70E 8 2.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=5.6km az=0.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=40.0.
ISC VI 21 03 26 19.8–1.0 39.13N–.03 29.12E–.02 6–9 50 0-2
ISCJB VI 21 03 26 19.7–.66 39.14N–.04 29.12E–.03 0–8 ¶17556149
DDA VI 21 03 26 19.1 39.12N 29.10E 7 2.9
CSEM VI 21 03 26 19.8–.07 39.14N 29.12E 2 2.5
ISK VI 21 03 26 19.9 39.14N 29.18E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=166.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=15.0.
ISC VI 21 08 28 30.7–.91 40.00N–.03 31.57E–.04 8 28 1-1
ISCJB VI 21 08 28 30.4–.72 40.00N–.04 31.66E–.07 8 ¶17556150
DDA VI 21 08 28 30.4 40.05N 31.70E 7 2.8
CSEM VI 21 08 28 31.6–.47 39.98N 31.49E 20 2.5L
ISK VI 21 08 28 31.3 39.94N 31.55E 11 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.3km az=5.7.
CSEM Event type ke. Error ellipse: s-maj=13.7km s-min=9.0km az=76.0.
ISC VI 21 10 12 04.3–.93 37.48N–.03 35.68E–.03 8–9 29 0-1
ISK VI 21 10 12 03.7 37.40N 35.78E 12 2.2L ¶17556154
DDA VI 21 10 12 03.8 37.53N 35.69E 7 2.6
ISCJB VI 21 10 12 04.2–.58 37.50N–.04 35.69E–.04 3–6 2.6
CSEM VI 21 10 12 04.2–.36 37.49N 35.67E 2 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.2km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=6.8km az=8.0.
ISC VI 21 10 47 06.0–1.9 38.63N–.06 36.89E–.04 11–13 26 0-2
ISCJB VI 21 10 47 08.7–.94 38.71N–.07 36.81E–.06 13–10 ¶17556155
ISK VI 21 10 47 09.9 38.65N 36.69E 21 2.1L
DDA VI 21 10 47 09.7 38.78N 36.78E 7 2.8
CSEM VI 21 10 47 11.2–.49 38.85N 36.77E 20 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=8.4km az=5.2.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=9.7km az=133.0.
ISK VI 21 14 50 16.4 39.62N 35.40E 10 2.6
¶17556158
ISC VI 21 14 56 32.0–1.0 39.07N–.03 29.06E–.03 9–9 32 0-2
ISCJB VI 21 14 56 32.0–.58 39.09N–.05 29.04E–.04 4–8 ¶17556160
ISK VI 21 14 56 31.4 39.07N 29.10E 5 2.6
CSEM VI 21 14 56 32.0–.15 39.08N 29.05E 5 2.6
DDA VI 21 14 56 32.0 39.10N 29.02E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.7km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=121.0.
ISC VI 21 15 38 51.1–1.1 38.30N–.02 28.63E–.02 5–10 50 0-2
DDA VI 21 15 38 50.8 38.30N 28.67E 7 2.8 ¶17556162
ISK VI 21 15 38 50.2 38.31N 28.64E 3 2.8
CSEM VI 21 15 38 51.0–.14 38.30N 28.65E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=78.0.
ISC VI 21 19 40 26.8–.86 40.61N–.02 27.73E–.01 12–6 199 0-8
ISCJB VI 21 19 40 26.4–.31 40.63N–.02 27.72E–.02 9–2 ¶16883287
DDA VI 21 19 40 26.6 40.59N 27.70E 10 3.5L
ISK VI 21 19 40 26.5 40.59N 27.72E 11 3.3L
CSEM VI 21 19 40 27.0–.06 40.59N 27.71E 10 3.3L
THE VI 21 19 40 28.2 40.62N 27.74E 18–1 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=159.9.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=171.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=128.0.
ISC VI 21 20 08 29.5–1.1 39.13N–.03 29.08E–.03 9–9 35 0-2
ISCJB VI 21 20 08 29.7–.53 39.14N–.05 29.08E–.04 7–7 ¶17556170
CSEM VI 21 20 08 29.6–.17 39.13N 29.08E 10 2.6
ISK VI 21 20 08 29.0 39.14N 29.10E 9 2.6
DDA VI 21 20 08 30.1 39.15N 29.10E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.9km az=165.5.

CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=135.0.
ISC VI 21 22 19 09.0–1.0 39.09N–.03 29.05E–.02 6–9 90 0-2
DDA VI 21 22 19 08.3 39.10N 29.06E 7 3.1 ¶17556172
ISK VI 21 22 19 08.9 39.10N 29.00E 4 3.0
CSEM VI 21 22 19 09.1–.14 39.10N 29.05E 0–1 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=1.8km az=178.0.
ISC VI 21 23 38 48.4–.93 39.09N–.02 29.03E–.02 10–8 99 0-5
DDA VI 21 23 38 47.9 39.10N 29.03E 7 3.0L ¶17556174
ISCJB VI 21 23 38 48.1–.51 39.09N–.03 29.02E–.03 2–6 3.0L
CSEM VI 21 23 38 48.4–.09 39.09N 29.03E 2 3.0L
ISK VI 21 23 38 48.1 39.08N 29.01E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=177.5.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=168.0.
ISC VI 22 00 19 49.8–.95 39.17N–.03 29.16E–.02 10–9 46 0-2
ISK VI 22 00 19 48.8 39.16N 29.13E 5 2.8 ¶17556175
ISCJB VI 22 00 19 49.6–.50 39.14N–.04 29.15E–.04 9–6 2.8
DDA VI 22 00 19 49.4 39.15N 29.16E 7 2.8
CSEM VI 22 00 19 49.6–.18 39.15N 29.16E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.0km az=156.4.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=149.0.
ISC VI 22 02 03 44.1–.94 39.47N–.01 26.26E–.02 7–8 143 0-3
DDA VI 22 02 03 43.2 39.46N 26.29E 18 2.9 ¶16880946
ISK VI 22 02 03 43.4 39.49N 26.24E 5 3.0
CSEM VI 22 02 03 44.3–.13 39.49N 26.28E 2 2.3L
ATH VI 22 02 03 44.1 39.48N 26.28E 5–2 2.1L
THE VI 22 02 03 44.1 39.47N 26.25E 2–2 2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=68.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=260.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.4km az=123.0.
ISC VI 22 03 16 53.0–.93 39.10N–.02 29.03E–.02 9–8 92 0-2
ISCJB VI 22 03 16 52.7–.50 39.10N–.03 29.03E–.03 2–6 ¶17556177
DDA VI 22 03 16 52.7 39.10N 29.00E 7 3.1L
CSEM VI 22 03 16 52.9–.08 39.09N 29.03E 2 3.1L
ISK VI 22 03 16 52.4 39.08N 29.02E 5 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=175.9.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=172.0.
ISC VI 22 06 14 05.6–.93 39.10N–.03 29.03E–.02 11–8 44 0-2
DDA VI 22 06 14 04.8 39.12N 29.01E 7 2.8 ¶17556179
ISCJB VI 22 06 14 05.6–.58 39.12N–.04 29.03E–.03 2–8 2.8
CSEM VI 22 06 14 05.7–.13 39.10N 29.04E 2 2.5L
ISK VI 22 06 14 05.1 39.10N 29.02E 4 2.5L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=172.3.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=171.0.
ISC VI 22 09 25 15.7–1.1 39.11N–.03 29.07E–.02 3–11 46 0-2
DDA VI 22 09 25 15.6 39.12N 29.07E 15 2.6 ¶17556185
ISK VI 22 09 25 15.8 39.10N 29.10E 5 2.4
ISCJB VI 22 09 25 16.2–.51 39.11N–.04 29.08E–.04 5–8 2.4
CSEM VI 22 09 25 16.3–.10 39.11N 29.08E 5 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=153.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=154.0.
ISC VI 22 15 03 17.0–1.0 38.66N–.04 37.48E–.04 6–9 22 0-2
ISK VI 22 15 03 15.4 38.70N 37.50E 5 2.7 ¶17556192
ISCJB VI 22 15 03 17.7–.60 38.63N–.04 37.46E–.05 8–5 2.7
CSEM VI 22 15 03 17.4–.32 38.61N 37.44E 8 2.7
DDA VI 22 15 03 19.3 38.71N 37.71E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.4km az=41.7.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=7.3km az=60.0.
ISC VI 22 15 06 28.4–1.3 41.06N–.07 36.09E–.06 20–4 23 0-1
ISK VI 22 15 06 23.3 41.07N 36.51E 9 2.8 ¶17556193
CSEM VI 22 15 06 23.7–.65 40.71N 36.15E 10 2.7
ISCJB VI 22 15 06 28.8–1.4 40.96N–.08 36.02E–.08 17–7 2.7
DDA VI 22 15 06 31.6 41.22N 35.79E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.8km s-min=8.4km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=8.7km az=150.3.
ISC VI 22 16 40 03.4–1.2 40.52N–.02 35.09E–.02 4–12 58 0-2
ISCJB VI 22 16 40 03.9–.52 40.54N–.02 35.09E–.04 5–5 ¶17556195
DDA VI 22 16 40 03.2 40.49N 35.08E 7 3.1
ISK VI 22 16 40 03.4 40.55N 35.10E 6 2.8
CSEM VI 22 16 40 04.2–.12 40.54N 35.06E 10 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=24.2.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=103.0.
ISC VI 22 16 51 35.1–.98 39.10N–.03 29.06E–.03 9 26 0-1
DDA VI 22 16 51 34.9 39.17N 29.00E 7 2.6 ¶17556196
ISK VI 22 16 51 34.9 39.09N 29.06E 8 2.5
ISCJB VI 22 16 51 35.5–.55 39.10N–.04 29.03E–.05 9 2.5
CSEM VI 22 16 51 35.5–.13 39.11N 29.02E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.0km az=146.7.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=136.0.
ISC VI 22 17 22 34.2–.91 39.12N–.03 28.99E–.03 9 30 0-2
ISK VI 22 17 22 33.7 39.10N 28.99E 11 2.7 ¶17556197
ISCJB VI 22 17 22 34.3–.51 39.12N–.04 28.99E–.04 9 2.7
DDA VI 22 17 22 34.0 39.16N 28.98E 7 2.7
CSEM VI 22 17 22 34.4–.07 39.11N 28.98E 11–0 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=144.7.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=157.0.
ISC VI 22 17 32 53.9–1.0 39.10N–.04 29.01E–.03 9 26 0-1
ISK VI 22 17 32 52.8 39.05N 29.12E 8 2.6 ¶17556198
ISCJB VI 22 17 32 53.6–.55 39.09N–.04 29.02E–.05 9 2.6
DDA VI 22 17 32 53.7 39.08N 29.01E 7 2.5
CSEM VI 22 17 32 53.7–.13 39.11N 29.01E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.1km az=146.6.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=136.0.
ISC VI 22 19 38 02.4–.97 39.07N–.04 29.10E–.03 10–10 28 0-2
ISK VI 22 19 38 01.6 39.08N 29.08E 4 2.6 ¶17556201
ISCJB VI 22 19 38 02.5–.57 39.08N–.05 29.06E–.05 11–8 2.6
CSEM VI 22 19 38 02.5–.17 39.09N 29.07E 10 2.6
DDA VI 22 19 38 02.9 39.06N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.9km az=150.6.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.6km az=145.0.
ISC VI 22 20 36 40.9–.94 39.10N–.03 29.02E–.02 16–8 38 0-2
DDA VI 22 20 36 40.5 39.13N 29.03E 7 2.8 ¶17556203
ISK VI 22 20 36 40.5 39.09N 28.99E 6 2.8
CSEM VI 22 20 36 41.1–.11 39.09N 29.01E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=21.0.
ISC VI 22 21 43 40.3–.96 39.10N–.02 29.04E–.02 9–9 60 0-2
DDA VI 22 21 43 39.5 39.14N 29.03E 11 2.7 ¶17556206
ISCJB VI 22 21 43 40.2–.52 39.10N–.04 29.03E–.03 5–7 2.7
CSEM VI 22 21 43 40.4–.09 39.09N 29.04E 5 2.7
ISK VI 22 21 43 40.0 39.08N 29.01E 8 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=2.9.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=7.0.
ISC VI 23 00 28 06.1–1.1 39.12N–.03 29.05E–.02 9 28 0-2
ISCJB VI 23 00 28 05.7–.52 39.11N–.04 29.05E–.04 9 ¶17556209
DDA VI 23 00 28 05.8 39.09N 29.05E 7 2.7

ISK VI 23 00 28 05.2 39.12N 29.05E 5 2.7
CSEM VI 23 00 28 05.8–.07 39.12N 29.06E 6–1 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=150.3.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=160.0.
ISC VI 23 00 32 27.8–.99 39.10N–.03 29.10E–.02 7–10 50 0-2
ISCJB VI 23 00 32 27.5–.56 39.10N–.04 29.09E–.04 3–7 ¶17556210
CSEM VI 23 00 32 27.7–.10 39.10N 29.10E 5 2.9
ISK VI 23 00 32 27.1 39.09N 29.12E 5 2.9
DDA VI 23 00 32 27.6 39.10N 29.08E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.0km az=159.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=161.0.
ISC VI 23 00 53 18.1–1.2 36.37N–.03 30.22E–.02 33–5 100 0-3
ISK VI 23 00 53 16.4 36.29N 30.22E 27 3.0L ¶16880980
DDA VI 23 00 53 16.5 36.36N 30.27E 42 3.2
CSEM VI 23 00 53 18.0–.22 36.35N 30.19E 30 3.0L
THE VI 23 00 53 19.7 36.50N 30.09E 20–7 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.3km az=168.0.
THE Event type ke. Error ellipse: s-maj=9.5km s-min=1.5km az=127.0.
ISC VI 23 01 03 25.2–.92 39.05N–.03 29.13E–.03 14–8 30 0-1
DDA VI 23 01 03 24.8 39.06N 29.10E 7 2.7 ¶17556211
ISK VI 23 01 03 24.2 39.04N 29.21E 8 2.7
ISCJB VI 23 01 03 25.1–.58 39.07N–.05 29.11E–.04 4–8 2.7
CSEM VI 23 01 03 25.0–.18 39.04N 29.14E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.5km az=152.9.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.5km az=132.0.
ISC VI 23 03 00 14.6–.99 39.11N–.03 29.09E–.02 8–11 66 0-2
ISK VI 23 03 00 13.6 39.10N 29.09E 5 3.0 ¶17556216
ISCJB VI 23 03 00 14.1–.52 39.10N–.04 29.08E–.03 6–6 3.0
CSEM VI 23 03 00 14.2–.10 39.11N 29.09E 5 3.0
DDA VI 23 03 00 15.7 39.03N 29.00E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=171.5.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=143.0.
ISC VI 23 05 25 31.5–2.5 40.02N–.07 35.5E–.10 15–13 18 0-2
CSEM VI 23 05 25 32.7–1.8 40.01N 35.49E 2 2.7 ¶601587447
DDA VI 23 05 25 38.3 40.15N 34.73E 8 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=38.6km s-min=11.3km az=67.0.
ISC VI 23 07 34 45.6–.40 38.55N–.01 39.61E–.01 10–2 5.2b,4.8s 1460 0-164
NEIC VI 23 07 34 42.7 38.58N 39.64E 6 5.4L,5.2b ¶16645799
ISK VI 23 07 34 42.9 38.57N 39.62E 6 5.4L,5.2b
GCMT VI 23 07 34 42.7–.10 38.53N 39.57E 19–0 5.4W,5.2b
DDA VI 23 07 34 43.3 38.56N 39.63E 13 5.3L,5.2b
SFS VI 23 07 34 43.0 38.58N 39.96E 5 5.2L,5.2b
IDC VI 23 07 34 43.7–.39 38.53N 39.65E 0 4.8,4.8s
DSN VI 23 07 34 44.8–1.4 38.38N 39.54E 10 5.1b,4.8s
BJI VI 23 07 34 44.4 38.50N 39.70E 10 5.4b,5.2s
ISCJB VI 23 07 34 44.2–.09 38.54N–.01 39.67E–.01 10 5.0b,4.8s
MOS VI 23 07 34 44.2–1.1 38.57N 39.64E 10 5.3b,4.6s
CSEM VI 23 07 34 44.5–.07 38.54N 39.70E 2 5.4W,5.2b
ISN VI 23 07 34 51.1–.52 38.27N 40.32E 0–1 5.4L,5.2b
NSSC VI 23 07 34 52.7–2.0 38.00N 39.02E 36–41 5.0L,5.2b
ISC Event type fe.
NEIC Event type fe. Felt at Diyarbakir, Elazig and Gaziantep. After ISK. Moment Tensor Solution. s23 Moment tensor: Scale 10^{16}Nm; M_{rr}0.60 $M_{\theta\theta}$-4.93 $M_{\phi\phi}$4.33 $M_{r\theta}$1.03 $M_{\theta\phi}$5.06 $M_{\phi r}$-3.84 Best double couple: NP1:ϕ_s250.00000°,δ60.00000°,λ5.00000°. NP2:ϕ_s157.00000° ,δ86.00000°,λ150.00000°. Principal axes: T 7.9400,Plg24.0000°,Azm110.0000° ; N 0.0000,Plg60.0000°,Azm330.0000°; P -7.9500,Plg17.0000°,Azm208.0000° M_o7.90000×10^{16}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s87,c134; s127,c246; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.02 $M_{\theta\theta}$-0.86±.02; $M_{\phi\phi}$0.71±.02; $M_{r\theta}$0.23±.04; $M_{\theta\phi}$1.11±.02; $M_{\phi r}$-0.15±.04; Best double couple: NP1:ϕ_s343.00000°,δ84.00000° ,λ-172.00000°. NP2:ϕ_s252.00000°,δ82.00000°,λ-6.00000°. Principal axes: T 1.2930,Plg1.0000°,Azm117.0000°; N 0.1860,Plg80.0000°,Azm20.0000° ; P -1.4790,Plg10.0000°,Azm207.0000° M_o1.38600×10^{17}
DDA Event type ke.
SFS Event type ke.
IDC Error ellipse: s-maj=9.2km s-min=7.0km az=163.0.
DSN Error ellipse: s-maj=21.6km s-min=5.8km az=90.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.2km az=178.0.
MOS Error ellipse: s-maj=4.4km s-min=2.9km az=108.9.
CSEM Event type ke.
ISN Error ellipse: s-maj=3.8km s-min=3.2km az=-1.0.
NSSC Error ellipse: s-maj=24.8km s-min=8.2km az=-1.0.
ISC VI 23 08 19 12.9–1.2 38.61N–.03 39.69E–.05 11 18 0-1
ISK VI 23 08 19 11.6 38.60N 39.68E 5 2.2L ¶17556224
CSEM VI 23 08 19 12.6–.39 38.58N 39.71E 2 2.2L
ISCJB VI 23 08 19 13.0–1.1 38.59N–.04 39.68E–.08 11 2.2L
DDA VI 23 08 19 16.8 38.79N 39.29E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.9km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.4km az=13.6.
ISC VI 23 08 24 28.9–1.6 37.70N–.04 37.80E–.03 3–13 21 0-1
DDA VI 23 08 24 27.9 37.74N 37.89E 4 2.7 ¶17556225
ISK VI 23 08 24 28.9 37.58N 37.79E 23 2.3L
ISCJB VI 23 08 24 29.6–.67 37.70N–.04 37.83E–.04 7–9 2.3L
CSEM VI 23 08 24 29.5–.41 37.66N 37.81E 15 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.8km az=155.5.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=8.8km az=4.0.
ISC VI 23 08 26 56.9–1.4 37.32N–.03 28.07E–.03 12–16 22 0-1
ISK VI 23 08 26 56.4 37.33N 28.04E 22 1.8L ¶17556226
ISCJB VI 23 08 26 57.4–.76 37.33N–.04 28.05E–.05 11–10 1.8L
DDA VI 23 08 26 57.0 37.33N 28.07E 7 2.8
CSEM VI 23 08 26 57.5–.22 37.33N 28.05E 10 1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=6.8km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=39.0.
ISC VI 23 09 29 08.0–1.4 37.09N–.03 30.98E–.03 112–7 83 0-3
ISCJB VI 23 09 29 07.9–.56 37.07N–.03 30.98E–.04 110–6 ¶17330135
ISK VI 23 09 29 07.4 37.05N 30.98E 110 3.5
DDA VI 23 09 29 08.6 37.13N 30.94E 100 3.5L
CSEM VI 23 09 29 08.2–.25 37.08N 30.97E 110–3 3.5
NIC VI 23 09 29 12.3–.20 36.95N 31.24E 56 4.0b,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.6km az=135.3.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=45.0.
ISC VI 23 10 38 45.8–1.0 38.61N–.06 39.87E–.04 11 18 0-1
ISCJB VI 23 10 38 46.0–.76 38.56N–.05 39.86E–.07 11 ¶17556231
ISK VI 23 10 38 45.0 38.60N 39.92E 7 2.2L
CSEM VI 23 10 38 46.4–.27 38.54N 39.82E 10 2.2L
DDA VI 23 10 38 49.7 38.73N 39.26E 30 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.4km az=144.3.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.8km az=83.0.
ISC VI 23 11 45 38.2–.96 38.75N–.03 39.11E–.05 11 22 0-1
ISCJB VI 23 11 45 38.8–.73 38.78N–.03 39.08E–.07 11 ¶17556232
CSEM VI 23 11 45 38.7–.36 38.74N 39.12E 20 2.1L
ISK VI 23 11 45 38.5 38.74N 39.16E 23 2.1L
DDA VI 23 11 45 39.6 38.71N 39.22E 4 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.3km az=19.7.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.1km az=99.0.
ISC VI 23 12 00 06.6–1.1 38.56N–.02 39.61E–.02 4–9 118 0-5
ISK VI 23 12 00 04.6 38.57N 39.64E 5 3.8L ¶17556233
DDA VI 23 12 00 06.1 38.59N 39.60E 19 4.0L
CSEM VI 23 12 00 06.3–.18 38.56N 39.64E 2 3.8L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=138.0.
ISC VI 23 13 04 04.0–1.1 38.58N–.03 39.53E–.06 9 18 0-1
ISK VI 23 13 04 02.6 38.58N 39.51E 5 2.0L ¶17556235
ISCJB VI 23 13 04 03.8–.95 38.59N–.04 39.53E–.08 9 2.0L
CSEM VI 23 13 04 03.5–.32 38.58N 39.53E 2 2.0L
DDA VI 23 13 04 10.8 38.46N 39.68E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.7km az=18.2.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.8km az=104.0.
DDA Event type ke.
ISC VI 23 15 19 36.0–1.1 39.59N–.03 30.10E–.02 6–10 43 0-2
ISK VI 23 15 19 35.8 39.52N 30.08E 12 2.6 ¶17556239
ISCJB VI 23 15 19 36.4–.56 39.59N–.03 30.09E–.03 3–6 2.6
CSEM VI 23 15 19 36.3–.22 39.59N 30.09E 5 2.6L
DDA VI 23 15 19 36.1 39.63N 30.11E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.2km az=150.4.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.2km az=172.0.
ISC VI 23 16 59 27.3–1.1 38.61N–.03 39.57E–.03 10–10 42 0-2
ISK VI 23 16 59 26.8 38.58N 39.59E 7 3.2 ¶17556240
DDA VI 23 16 59 26.9 38.61N 39.59E 7 2.9
ISCJB VI 23 16 59 27.2–.60 38.60N–.03 39.60E–.04 6–5 2.9
CSEM VI 23 16 59 27.3–.18 38.59N 39.58E 8 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.6km az=8.2.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=68.0.
ISC VI 23 18 26 54.2–.94 40.34N–.02 26.97E–.02 14–7 52 0-2
ISCJB VI 23 18 26 53.9–.42 40.32N–.03 26.98E–.03 2–6 ¶17556241
DDA VI 23 18 26 53.8 40.33N 26.96E 7 2.8L
CSEM VI 23 18 26 54.5–.10 40.34N 26.98E 2 2.4
ISK VI 23 18 26 54.1 40.38N 26.97E 6 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=5.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=14.0.
ISC VI 23 19 18 42.8–1.1 39.13N–.03 29.05E–.02 2–11 40 0-1
DDA VI 23 19 18 42.3 39.12N 29.07E 7 2.6L ¶17556243
ISK VI 23 19 18 42.8 39.12N 28.95E 5 2.7
CSEM VI 23 19 18 43.1–.20 39.13N 29.02E 2 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.3km az=17.0.
ISC VI 23 19 28 42.8–1.1 39.10N–.03 29.04E–.02 4–10 58 0-2
DDA VI 23 19 28 42.4 39.12N 29.05E 7 2.6L ¶17556244
CSEM VI 23 19 28 42.7–.16 39.09N 29.03E 2 2.6L
ISK VI 23 19 28 42.2 39.07N 29.08E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=152.0.
ISC VI 23 22 51 33.6–1.1 38.47N–.05 39.14E–.04 13–7 16 0-1
ISCJB VI 23 22 51 33.7–.85 38.46N–.06 39.15E–.06 11–7 ¶601587468
DDA VI 23 22 51 33.6 38.45N 39.16E 7 2.6L
CSEM VI 23 22 51 33.4–.21 38.47N 39.12E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=7.6km az=156.9.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=144.0.
ISC VI 23 23 47 09.0–1.1 38.64N–.02 40.18E–.02 9–12 39 1-2
ISK VI 23 23 47 08.0 38.61N 40.19E 3 2.8 ¶17556246
ISCJB VI 23 23 47 09.5–.51 38.65N–.03 40.17E–.03 10–7 2.8
DDA VI 23 23 47 09.6 38.64N 40.22E 7 2.8L
CSEM VI 23 23 47 09.1–.24 38.65N 40.20E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=151.6.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.9km az=83.0.
ISC VI 24 03 38 50.6–1.4 38.59N–.03 39.52E–.03 8–11 29 0-1
CSEM VI 24 03 38 50.9–.29 38.59N 39.53E 10 2.4 ¶17556249
DDA VI 24 03 38 50.8 38.59N 39.54E 7 2.7L
ISCJB VI 24 03 38 51.0–.66 38.59N–.04 39.56E–.05 8–6 2.7L
ISK VI 24 03 38 51.0 38.58N 39.53E 14 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.4km az=60.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.5km az=145.3.
DDA VI 24 03 38 53.1 39.10N 29.12E 7 2.4L
¶602863413
ISC VI 24 13 33 10.4–.95 37.23N–.04 28.25E–.03 13–6 21 0-1
ISCJB VI 24 13 33 10.4–.69 37.26N–.07 28.22E–.05 8–15 ¶17556255
DDA VI 24 13 33 10.2 37.18N 28.24E 7 2.5
ISK VI 24 13 33 10.3 37.24N 28.21E 7 2.6
CSEM VI 24 13 33 11.1–.25 37.24N 28.20E 2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=6.0km az=17.5.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.8km az=14.0.
ISC VI 24 13 54 52.0–1.0 38.06N–.03 27.26E–.03 14–8 52 0-2
ISCJB VI 24 13 54 52.0–.57 38.08N–.03 27.27E–.03 7–4 ¶17556256
ATH VI 24 13 54 51.9 38.09N 27.25E 19–2 2.4L
ISK VI 24 13 54 51.8 38.05N 27.26E 16 2.6
DDA VI 24 13 54 52.0 38.06N 27.23E 7 2.7
CSEM VI 24 13 54 52.3–.21 38.06N 27.28E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.3km az=41.3.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.2km az=268.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.0km az=45.0.
ISC VI 24 14 32 26.3–.99 39.09N–.03 29.01E–.02 9 31 0-1
DDA VI 24 14 32 25.9 39.09N 28.99E 7 2.3 ¶17556257
ISK VI 24 14 32 25.6 39.08N 29.02E 5 2.6
ISCJB VI 24 14 32 26.1–.50 39.07N–.04 29.01E–.04 9 2.6
CSEM VI 24 14 32 26.1–.13 39.08N 29.02E 2 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=167.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=155.0.
ISC VI 24 14 55 03.7–1.2 37.18N–.03 28.20E–.03 5–11 30 0-1
DDA VI 24 14 55 03.6 37.23N 28.24E 7 2.6 ¶17556258
ISK VI 24 14 55 03.1 37.17N 28.19E 3 2.5
CSEM VI 24 14 55 04.1–.31 37.20N 28.20E 2 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=5.4km az=20.0.
ISC VI 24 15 05 11.9–1.2 38.58N–.03 39.63E–.05 4–14 20 0-1
CSEM VI 24 15 05 05.5–2.1 38.62N 38.68E 5 2.8 ¶17556259
ISK VI 24 15 05 10.8 38.58N 39.65E 5 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=40.9km s-min=18.9km az=100.0.
ISC VI 24 17 29 03.7–.99 40.72N–.03 42.38E–.03 10–9 41 0-1
ISK VI 24 17 29 02.5 40.77N 42.35E 6 2.6 ¶17556263
CSEM VI 24 17 29 03.7–.18 40.70N 42.38E 12 2.6
ISCJB VI 24 17 29 04.1–.46 40.72N–.03 42.38E–.04 8–5 2.6
DDA VI 24 17 29 04.3 40.72N 42.36E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.6km az=139.8.
DDA Event type ke.
ISC VI 24 17 56 24.7–1.2 36.14N–.07 31.17E–.03 10 27 1-3
ISK VI 24 17 56 22.8 35.92N 31.27E 24 2.6L ¶17556266
CSEM VI 24 17 56 24.9–.54 36.16N 31.15E 2 3.1
DDA VI 24 17 56 24.5 36.17N 31.21E 8 3.1
ISCJB VI 24 17 56 25.2–1.0 36.07N–.09 31.17E–.05 10 3.1
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.

ISC VI 24 19 36 27.1–.97 39.11N–.03 29.07E–.03 10–9 31 0-2
DDA VI 24 19 36 26.9 39.12N 29.09E 7 2.6 ¶17556269
ISK VI 24 19 36 26.8 39.11N 29.01E 10 2.7
ISCJB VI 24 19 36 27.4–.53 39.09N–.07 29.06E–.04 10–9 2.7
CSEM VI 24 19 36 27.3–.19 39.12N 29.05E 5 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=4.7km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=150.0.
ISC VI 24 21 32 37.3–.88 39.44N–.02 33.07E–.03 1–5 36 0-2
ISCJB VI 24 21 32 37.7–.54 39.43N–.03 33.05E–.05 3–4 ¶17556272
DDA VI 24 21 32 37.7 39.43N 33.07E 7 2.6
CSEM VI 24 21 32 37.5–.14 39.44N 33.04E 2 2.6
ISK VI 24 21 32 37.1 39.45N 33.07E 4 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.4km az=31.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=123.0.
ISC VI 24 21 50 47.7–.82 37.01N–.02 27.46E–.02 11–5 61 0-2
ATH VI 24 21 50 47.7 37.00N 27.41E 29–4 2.7L ¶17556273
DDA VI 24 21 50 47.8 37.00N 27.42E 8 2.8
ISCJB VI 24 21 50 48.6–.41 37.01N–.02 27.42E–.03 5–4 2.8
CSEM VI 24 21 50 48.9–.23 37.00N 27.41E 5 2.8
ISK VI 24 21 50 48.2 37.04N 27.48E 5 2.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=0.8km az=239.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.8km az=170.7.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.9km az=77.0.
ISK VI 24 22 06 03.1 37.03N 27.45E 5 2.6
CSEM VI 24 22 06 03.1 37.03N 27.45E 5 2.6 ¶17556275
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 25 06 17 33.9–.87 38.64N–.03 30.84E–.03 13–6 40 0-2
ISCJB VI 25 06 17 33.8–.54 38.64N–.03 30.83E–.04 7–5 ¶17556280
CSEM VI 25 06 17 33.8–.12 38.63N 30.83E 8 2.8
ISK VI 25 06 17 33.5 38.65N 30.81E 10 2.8
DDA VI 25 06 17 34.2 38.62N 30.87E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.7km az=158.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=11.0.
DDA Event type ke.
ISC VI 25 10 10 52.6–1.0 39.13N–.04 29.04E–.03 15–10 24 0-1
ISK VI 25 10 10 51.3 39.13N 29.01E 5 2.6 ¶17556288
DDA VI 25 10 10 52.5 39.12N 29.04E 7 2.7
CSEM VI 25 10 10 52.9–.24 39.13N 29.02E 10 2.7
ISCJB VI 25 10 10 53.2–.69 39.11N–.05 29.03E–.04 8–9 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC VI 25 14 17 07.1–.99 38.55N–.02 39.59E–.02 9–9 72 0-3
DDA VI 25 14 17 06.4 38.58N 39.57E 4 3.2 ¶17556297
ISK VI 25 14 17 06.6 38.58N 39.63E 9 3.1L
CSEM VI 25 14 17 07.3–.24 38.56N 39.61E 2 3.1L
NSSC VI 25 14 17 09.2–1.8 38.25N 38.84E 38–999 2.6L,1.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=5.1km az=84.0.
NSSC Error ellipse: s-maj=91.4km s-min=147.3km az=-1.0.
ISC VI 25 16 58 25.7–1.1 39.11N–.03 29.03E–.03 5–11 28 0-1
ISK VI 25 16 58 24.9 39.08N 29.11E 8 2.7 ¶17556300
DDA VI 25 16 58 25.2 39.10N 29.03E 7 2.4
CSEM VI 25 16 58 25.4–.12 39.12N 29.03E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=140.0.
ISC VI 25 18 23 43.4–1.0 39.16N–.02 29.09E–.02 5–9 91 0-2
DDA VI 25 18 23 42.8 39.17N 29.07E 6 3.6L ¶17556301
CSEM VI 25 18 23 43.6–.10 39.14N 29.08E 2 3.6L
ISK VI 25 18 23 43.2 39.13N 29.04E 5 3.2L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=158.0.
ISC VI 25 20 34 02.6–1.1 39.09N–.02 29.05E–.02 2–10 85 0-2
DDA VI 25 20 34 01.9 39.10N 29.05E 7 3.1 ¶17556302
ISK VI 25 20 34 02.4 39.05N 29.05E 8 3.1L
CSEM VI 25 20 34 02.7–.11 39.07N 29.05E 2 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=169.0.
ISC VI 25 21 07 14.0–.89 39.12N–.02 29.10E–.02 11–8 123 0-3
DDA VI 25 21 07 13.7 39.10N 29.11E 17 3.5L ¶17556303
ISK VI 25 21 07 13.9 39.09N 29.11E 4 3.2L
CSEM VI 25 21 07 15.1–.14 39.08N 29.13E 10 3.2L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=156.0.
ISC VI 25 21 21 22.6–1.1 38.62N–.02 39.59E–.04 12–10 32 0-2
ISK VI 25 21 21 21.9 38.60N 39.67E 9 2.8 ¶17556304
DDA VI 25 21 21 22.7 38.61N 39.63E 7 2.7
CSEM VI 25 21 21 22.7–.26 38.62N 39.62E 10 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.2km az=64.0.
ISC VI 26 03 29 20.5–1.1 38.61N–.02 39.59E–.04 10–11 26 0-1
ISK VI 26 03 29 19.1 38.60N 39.64E 13 2.7 ¶17556305
ISCJB VI 26 03 29 20.2–.77 38.61N–.03 39.59E–.06 9–6 2.7
DDA VI 26 03 29 20.0 38.62N 39.60E 7 2.7L
CSEM VI 26 03 29 20.0–.19 38.61N 39.58E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.0km az=178.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.9km az=81.0.
ISC VI 26 06 16 07.5–.90 37.40N–.02 34.87E–.02 13–7 49 0-2
ISK VI 26 06 16 06.7 37.42N 34.89E 8 2.6,2.4L ¶17556310
CSEM VI 26 06 16 07.6–.20 37.40N 34.87E 8 2.8,2.4L
DDA VI 26 06 16 07.6 37.41N 34.90E 6 2.8,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=27.0.
DDA Event type ke.
ISC VI 26 10 11 25.9–.90 39.09N–.03 29.03E–.03 15–8 26 0-1
ISCJB VI 26 10 11 25.9–.55 39.08N–.05 29.03E–.04 11–9 ¶17556318
DDA VI 26 10 11 25.5 39.11N 29.04E 6 2.9
ISK VI 26 10 11 25.8 39.07N 29.03E 10 2.5
CSEM VI 26 10 11 26.1–.15 39.08N 29.03E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=168.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=5.0.
ISC VI 26 14 10 40.2–.90 39.54N–.02 26.01E–.03 13–7 56 0-2
ATH VI 26 14 10 39.6 39.52N 26.01E 24–1 1.7L ¶17556324
ISK VI 26 14 10 39.6 39.54N 26.03E 7 2.8
ISCJB VI 26 14 10 40.1–.44 39.54N–.02 26.00E–.04 8–4 2.8
DDA VI 26 14 10 40.8 39.57N 26.11E 6 2.6
CSEM VI 26 14 10 40.2–.14 39.54N 26.00E 10 1.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=217.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=177.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=83.0.
ISC VI 26 15 50 41.9–1.1 38.57N–.03 39.48E–.06 9 18 0-1
ISCJB VI 26 15 50 41.7–.93 38.57N–.04 39.51E–.08 9 ¶17556329
CSEM VI 26 15 50 41.6–.22 38.56N 39.52E 2 2.4
ISK VI 26 15 50 41.1 38.57N 39.45E 3 2.4
DDA VI 26 15 50 44.3 38.75N 39.25E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.6km az=19.4.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.3km az=105.0.
DDA Event type ke.
ISC VI 26 20 13 09.5–.96 37.03N–.03 36.13E–.02 12–9 38 0-2
ISCJB VI 26 20 13 09.4–.46 37.04N–.03 36.12E–.03 10–5 ¶17556333
DDA VI 26 20 13 09.4 37.00N 36.14E 7 2.6L
CSEM VI 26 20 13 09.6–.18 37.03N 36.13E 10 2.7
ISK VI 26 20 13 09.2 37.04N 36.12E 9 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=3.0.
ISC VI 26 20 16 01.8–1.0 38.54N–.02 39.60E–.02 5–8 130 0-42
ISK VI 26 20 16 00.9 38.54N 39.61E 4 3.5L ¶17207023
IDC VI 26 20 16 01.0–1.1 38.63N 39.62E 0 3.4,3.3
ISCJB VI 26 20 16 01.5–.49 38.55N–.02 39.61E–.02 3–4 3.0b,3.3
DDA VI 26 20 16 01.3 38.55N 39.59E 14 3.7L,3.3
CSEM VI 26 20 16 02.5–.16 38.55N 39.61E 10 3.5L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=19.9km s-min=12.2km az=149.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=149.1.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=164.0.
ISC VI 26 20 19 01.2–1.0 40.10N–.02 29.31E–.02 6–10 78 0-2
ISCJB VI 26 20 19 01.1–.46 40.10N–.02 29.32E–.03 1–5 ¶17556334
CSEM VI 26 20 19 01.5–.09 40.10N 29.33E 5 2.9
DDA VI 26 20 19 01.1 40.11N 29.31E 7 2.9L
ISK VI 26 20 19 01.1 40.11N 29.32E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=25.7.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=16.0.
ISC VI 26 21 04 55.8–.95 39.11N–.04 29.09E–.03 14–9 32 0-2
ISCJB VI 26 21 04 55.6–.57 39.11N–.05 29.07E–.04 5–8 ¶17556335
DDA VI 26 21 04 55.6 39.14N 29.08E 7 2.1L
ISK VI 26 21 04 55.0 39.13N 29.08E 6 2.7
CSEM VI 26 21 04 55.6–.12 39.11N 29.08E 8 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.0km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=140.0.
ISC VI 26 21 41 08.0–1.0 38.56N–.02 39.58E–.02 8–9 91 0-3
ISK VI 26 21 41 06.8 38.57N 39.54E 5 3.3 ¶17556338
DDA VI 26 21 41 07.3 38.55N 39.56E 5 3.5L
CSEM VI 26 21 41 08.2–.18 38.53N 39.57E 2 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=158.0.
ISC VI 26 23 42 26.7–.95 38.63N–.03 39.60E–.03 15–10 31 0-2
DDA VI 26 23 42 26.2 38.59N 39.59E 7 2.6 ¶17556343
CSEM VI 26 23 42 26.1–.48 38.61N 39.52E 5 2.8
ISK VI 26 23 42 26.0 38.64N 39.60E 5 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=8.2km az=63.0.
ISC VI 26 23 58 38.7–.91 39.09N–.02 29.03E–.02 13–8 44 0-2
ISCJB VI 26 23 58 38.5–.44 39.07N–.03 29.03E–.03 6–6 ¶17556345
DDA VI 26 23 58 38.2 39.10N 29.04E 7 2.7
CSEM VI 26 23 58 38.7–.12 39.08N 29.03E 8 2.7
ISK VI 26 23 58 38.3 39.10N 29.03E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=156.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=134.0.
ISC VI 27 00 34 59.7–.85 40.70N–.02 29.25E–.02 14–6 70 0-2
ISK VI 27 00 34 58.7 40.71N 29.25E 8 2.7 ¶17556346
ISCJB VI 27 00 34 59.2–.35 40.70N–.02 29.26E–.03 7–4 2.7
CSEM VI 27 00 34 59.4–.10 40.72N 29.26E 8–1 2.8
DDA VI 27 00 34 59.2 40.69N 29.26E 14 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=158.3.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=39.0.
ISC VI 27 02 03 43.3–.97 38.57N–.04 39.53E–.03 14–8 32 0-2
CSEM VI 27 02 03 41.8–1.1 38.59N 39.35E 10 2.8 ¶17556347
DDA VI 27 02 03 42.4 38.52N 39.60E 7 3.1
ISK VI 27 02 03 42.8 38.64N 39.48E 15 2.8
ISCJB VI 27 02 03 43.3–.62 38.59N–.03 39.55E–.04 13–5 2.8
ISC Event type ke.
CSEM Event type ke.
DDA Event type ke.
ISCJB Event type ke.
ISC VI 27 02 38 46.3–.86 37.02N–.03 27.49E–.03 9–5 35 0-2
DDA VI 27 02 38 44.9 36.94N 27.38E 7 2.5 ¶17556348
ATH VI 27 02 38 45.2 37.25N 27.80E 43–6 2.1L
ISK VI 27 02 38 45.7 36.96N 27.42E 2 2.8
ISCJB VI 27 02 38 46.6–.76 36.98N–.04 27.41E–.05 4–6 2.8
CSEM VI 27 02 38 46.9–.23 37.00N 27.43E 2 2.8
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=8.8km s-min=1.5km az=236.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.5km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=49.0.
ISC VI 27 02 52 45.2–1.0 39.01N–.02 29.79E–.02 9–10 62 0-2
ISCJB VI 27 02 52 45.6–.58 39.01N–.03 29.78E–.03 8–5 ¶17556350
DDA VI 27 02 52 45.0 39.04N 29.77E 7 2.9
CSEM VI 27 02 52 45.5–.14 39.02N 29.79E 5 2.9
ISK VI 27 02 52 45.3 39.00N 29.80E 10 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.9km az=162.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=155.0.
ISC VI 27 06 25 38.8–.83 37.89N–.02 27.13E–.02 13–6 97 0-3
DDA VI 27 06 25 38.7 37.89N 27.09E 7 2.8 ¶16881074
ISCJB VI 27 06 25 38.7–.37 37.89N–.02 27.13E–.02 10–3 2.8
ATH VI 27 06 25 38.7 37.88N 27.11E 14–3 2.9L
CSEM VI 27 06 25 38.8–.14 37.90N 27.13E 9–1 2.8
THE VI 27 06 25 38.8 37.89N 27.12E 2–3 3.0L
ISK VI 27 06 25 38.9 37.92N 27.14E 16 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=43.1.
ATH Event type ke. Error ellipse: s-maj=5.4km s-min=1.4km az=264.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=43.0.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=1.2km az=216.0.
ISC VI 27 07 10 00.2–1.2 37.84N–.04 30.16E–.03 14–11 32 1-2
DDA VI 27 07 09 57.5 37.80N 30.28E 5 2.6 ¶17556354
ISK VI 27 07 09 59.9 37.80N 30.07E 9 2.8
ISCJB VI 27 07 10 00.5–.68 37.88N–.04 30.15E–.04 5–8 2.8
CSEM VI 27 07 10 00.4–.25 37.87N 30.14E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=31.3.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=34.0.
ISC VI 27 10 49 11.9–1.1 39.10N–.03 29.01E–.03 18–4 26 0-1
ISK VI 27 10 49 11.4 39.00N 29.17E 21 2.4 ¶17556358
ISCJB VI 27 10 49 12.5–.56 39.09N–.05 29.01E–.05 16–12 2.4
DDA VI 27 10 49 12.6 39.08N 29.01E 7 2.6
CSEM VI 27 10 49 12.2–.19 39.08N 29.02E 15 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.2km az=141.8.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.6km az=127.0.
ISC VI 27 11 30 13.8–.98 39.10N–.04 29.02E–.03 14–10 24 0-1
ISCJB VI 27 11 30 13.7–.59 39.09N–.05 29.03E–.05 12–6 ¶17556364

DDA VI 27 11 30 13.8 39.08N 29.02E 7 2.6
ISK VI 27 11 30 13.3 39.06N 29.12E 9 2.2
CSEM VI 27 11 30 13.8–.16 39.09N 29.02E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.6km az=140.3.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=2.8km az=130.0.
ISC VI 27 15 20 39.3–.96 38.62N–.03 39.45E–.05 23–9 27 0-1
CSEM VI 27 15 20 35.2–1.0 38.64N 38.92E 20 2.8 **¶17556367**
ISCJB VI 27 15 20 38.6–1.1 38.62N–.04 39.4E–.10 35–14 2.8
ISK VI 27 15 20 38.3 38.60N 39.58E 20 2.8
DDA VI 27 15 20 39.0 38.60N 39.64E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=23.5km s-min=11.5km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.4km az=3.1.
ISC VI 27 15 39 51.6–1.5 39.19N–.05 29.13E–.08 9–11 23 0-1
CSEM VI 27 15 39 50.8–.32 39.18N 29.08E 5 2.7 **¶17556371**
DDA VI 27 15 39 50.6 39.16N 29.09E 7 2.4
ISCJB VI 27 15 39 51.8–1.3 39.19N–.06 29.1E–.10 7–11 2.4
ISK VI 27 15 39 51.8 39.19N 29.19E 12 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.0km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=9.2km az=172.5.
ISC VI 27 15 47 16.0–1.4 40.86N–.05 37.17E–.03 6–12 28 0-3
ISK VI 27 15 47 15.4 40.84N 37.16E 10 2.6L **¶17556372**
ISCJB VI 27 15 47 17.3–.67 40.75N–.05 37.07E–.05 8–7 2.6L
DDA VI 27 15 47 17.9 40.73N 37.08E 7 2.7
CSEM VI 27 15 47 17.1–.40 40.76N 37.10E 10 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.6km az=28.5.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=7.3km az=25.0.
ISC VI 27 17 28 56.2–1.3 37.13N–.03 42.48E–.03 3–10 52 0-3
ISK VI 27 17 28 55.8 37.14N 42.49E 5 3.5 **¶17556377**
ISN VI 27 17 28 55.4–.30 37.13N 42.59E 0 3.2L
NSSC VI 27 17 28 56.5–.65 37.45N 42.25E 141–10 2.5L
CSEM VI 27 17 28 56.9–.30 37.16N 42.52E 8 3.5
DDA VI 27 17 28 57.0 37.11N 42.42E 7 2.6
ISCJB VI 27 17 28 56.6–.95 37.14N–.04 42.52E–.04 5–9 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC VI 27 17 38 27.7–.95 38.57N–.02 39.54E–.03 11–9 44 0-3
ISCJB VI 27 17 38 27.7–.52 38.56N–.02 39.55E–.04 6–6 **¶17556378**
CSEM VI 27 17 38 27.6–.20 38.56N 39.55E 8 2.8
ISK VI 27 17 38 27.4 38.56N 39.49E 17 2.8
DDA VI 27 17 38 27.7 38.59N 39.55E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=170.3.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=66.0.
ISC VI 27 19 02 28.3–.98 39.08N–.03 29.04E–.03 9–12 29 0-1
ISCJB VI 27 19 02 27.9–.51 39.06N–.04 29.05E–.05 7–8 **¶17556380**
ISK VI 27 19 02 27.5 39.08N 29.07E 6 2.7
DDA VI 27 19 02 28.1 39.05N 29.05E 7 2.6
CSEM VI 27 19 02 28.0–.15 39.08N 29.03E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.4km az=143.6.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.0km az=125.0.
ISC VI 27 20 04 25.3–1.0 39.58N–.02 39.87E–.02 4–9 57 0-2
ISK VI 27 20 04 24.6 39.58N 39.86E 4 2.8 **¶17556384**
DDA VI 27 20 04 25.0 39.58N 39.86E 7 2.7
CSEM VI 27 20 04 25.1–.13 39.58N 39.86E 2 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=58.0.
ISC VI 27 20 27 26.4–1.1 38.56N–.03 39.58E–.04 14–11 25 0-2
ISCJB VI 27 20 27 26.8–.69 38.56N–.04 39.61E–.07 13–10 **¶17556385**
CSEM VI 27 20 27 26.1–.22 38.53N 39.64E 10 2.8
ISK VI 27 20 27 26.1 38.55N 39.58E 17 2.8
DDA VI 27 20 27 27.6 38.60N 39.60E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.7km az=21.1.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=83.0.
DDA Event type ke.
ISC VI 27 21 14 00.2–.73 39.14N–.02 29.04E–.01 13–4 4.7b,4.1s 1050 0-116
BJI VI 27 21 13 53.7 38.47N 28.81E 10 5.0b,4.7b **¶16683872**
NSSC VI 27 21 13 55.1–1.7 38.72N 28.30E 0–147 3.4L,4.7b
ISCJB VI 27 21 13 59.0–.27 39.116N–.01 29.03E–.01 14–1 4.6b,4.1s
NEIC VI 27 21 13 58.8 39.11N 29.03E 10 4.9L,4.7b
MOS VI 27 21 13 58.6–1.2 39.17N 29.06E 11 4.8b,4.0s
DDA VI 27 21 13 58.5 39.11N 29.03E 18 5.0L,4.0s
HLW VI 27 21 13 58.0 39.22N 29.40E 33–12 4.8,4.0s
GCMT VI 27 21 13 58.8–.40 39.07N 29.13E 19–1 5.0W,4.0s
ISK VI 27 21 13 58.6 39.12N 29.02E 9 4.9L,4.0s
IDC VI 27 21 13 58.3–.57 39.08N 28.96E 0 4.5,4.4
ISN VI 27 21 13 59.9–.66 39.15N 29.21E 0–66 4.8L,4.4
THE VI 27 21 14 00.2 39.15N 29.01E 2–0 4.7L,4.4
CSEM VI 27 21 14 00.0–.05 39.11N 29.02E 10 4.8b,4.7W
NIC VI 27 21 14 04.3–.50 39.02N 29.04E 81 5.1b,4.8L
SOF VI 27 21 14 04.2 39.56N 28.72E 2 3.8,4.8L
GII VI 27 21 14 04.3–.00 38.61N 29.05E 1 4.4b,4.2
ISC Event type fe.
NSSC Error ellipse: s-maj=104.4km s-min=243.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=33.5.
NEIC Event type fe. Felt [II] at Eskisehir and Izmir. Also felt at Akhisar, Bursa, Cesme, Gediz, Golcuk, Karamursel, Kutahya, Mudanya and Simav. After ISK. Moment Tensor Solution. s30 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.18 $M_{\theta\theta}$1.27 $M_{\phi\phi}$-0.09 $M_{r\theta}$0.20 $M_{\theta\phi}$-0.59 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s86.00000°,δ41.00000°,λ-131.00000°. NP2:ϕ_s315.00000° ,δ60.00000°,λ-60.00000°. Principal axes: T 1.5700,Plg10.0000°,Azm24.0000° ; N 0.0000,Plg26.0000°,Azm119.0000°; P -1.5700,Plg62.0000°,Azm274.0000° M_o1.60000×10^{16}
MOS Error ellipse: s-maj=4.7km s-min=3.1km az=94.6.
DDA Event type ke.
GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c33; s76,c111; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.58±.29 $M_{\theta\theta}$3.22±.19; $M_{\phi\phi}$0.36±.16; $M_{r\theta}$0.20±.32; $M_{\theta\phi}$-1.56±.12; $M_{\phi r}$-1.61±.40; Best double couple: NP1:ϕ_s313.00000°,δ55.00000° ,λ-66.00000°. NP2:ϕ_s95.00000°,δ42.00000°,λ-120.00000°. Principal axes: T 4.0030,Plg7.0000°,Azm26.0000°; N 0.1710,Plg19.0000°,Azm118.0000° ; P -4.1700,Plg69.0000°,Azm278.0000° M_o4.08700×10^{16}
IDC Error ellipse: s-maj=11.5km s-min=8.4km az=17.0.
ISN Error ellipse: s-maj=26.3km s-min=62.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=39.0.
GII Event type ke.
ISC VI 27 21 17 17.6–.93 39.07N–.03 29.08E–.02 12–9 44 0-2
ISK VI 27 21 17 16.8 39.09N 29.08E 5 2.8 **¶17556387**
ISCJB VI 27 21 17 17.4–.47 39.07N–.04 29.07E–.04 10–5 2.8
DDA VI 27 21 17 17.6 39.11N 29.04E 7 2.5
CSEM VI 27 21 17 17.5–.15 39.06N 29.07E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.9km az=143.8.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=127.0.
DDA VI 27 21 18 44.6 39.07N 29.03E 7 2.3
¶603482810
DDA Event type ke.
ISC VI 27 21 19 08.0–1.3 39.19N–.03 28.93E–.03 21–2 44 0-2
ISK VI 27 21 19 07.6 39.20N 28.91E 15 3.0L **¶17556394**
ISCJB VI 27 21 19 08.4–.44 39.18N–.05 28.94E–.04 21–8 3.0L
CSEM VI 27 21 19 08.0–.11 39.17N 28.92E 17–1 2.5
DDA VI 27 21 19 09.0 39.09N 29.02E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.2km az=163.3.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=169.0.
DDA Event type ke.
ISC VI 27 21 19 45.5–.92 39.11N–.02 29.01E–.02 10–9 60 0-2
DDA VI 27 21 19 44.9 39.11N 29.01E 7 2.9 **¶603482808**
ISCJB VI 27 21 19 45.3–.39 39.11N–.03 29.00E–.03 8–5 2.9
ISK VI 27 21 19 45.0 39.12N 28.99E 6 3.2L
CSEM VI 27 21 19 45.6–.08 39.11N 28.99E 8 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=134.0.
ISC VI 27 21 22 19.8–.96 39.11N–.02 29.02E–.02 8–9 54 0-2
ISCJB VI 27 21 22 19.7–.41 39.09N–.03 29.03E–.03 6–6 **¶17556395**
DDA VI 27 21 22 19.4 39.09N 29.02E 7 2.6
CSEM VI 27 21 22 19.9–.12 39.10N 29.03E 5 2.6
ISK VI 27 21 22 19.4 39.11N 29.05E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=163.5.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=143.0.
ISC VI 27 21 28 52.0–.80 39.07N–.02 29.05E–.01 14–5 4.0b 444 0-73
DDA VI 27 21 28 50.7 39.12N 29.04E 12 4.4L **¶16721019**
MOS VI 27 21 28 50.3–1.1 39.08N 29.07E 12 4.2b
IDC VI 27 21 28 50.1–.89 39.09N 29.05E 0 3.9,3.9b
SOF VI 27 21 28 51.2 39.21N 28.99E 8 3.4,3.9b
NEIC VI 27 21 28 51.3 39.10N 29.04E 8 4.4L,4.2b
THE VI 27 21 28 51.4 39.03N 29.18E 11–2 4.2L,4.2b
ISK VI 27 21 28 51.0 39.10N 29.03E 5 4.4L,4.2b
ISCJB VI 27 21 28 51.2–.32 39.11N–.01 29.03E–.02 12–2 4.1b,3.6s
CSEM VI 27 21 28 52.0–.08 39.09N 29.04E 10 4.3b,3.6s
ISC Event type ke.
DDA Event type ke.
MOS Error ellipse: s-maj=8.2km s-min=4.9km az=79.5.
IDC Error ellipse: s-maj=17.5km s-min=11.3km az=26.0.
NEIC Event type se. After ISK.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=0.8km az=122.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=16.0.
ISC VI 27 21 45 00.6–.97 39.13N–.02 29.01E–.02 6–9 122 0-2
CSEM VI 27 21 45 00.6–.08 39.11N 29.02E 2 3.5L **¶17556402**
ISK VI 27 21 45 00.2 39.11N 29.01E 5 3.3L
DDA VI 27 21 45 00.1 39.12N 29.01E 8 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=143.0.
ISC VI 27 21 46 13.9–.97 39.10N–.02 29.03E–.02 8–8 78 0-2
DDA VI 27 21 46 13.4 39.11N 29.02E 11 3.0 **¶17556403**
ISK VI 27 21 46 13.3 39.09N 29.02E 5 3.0L
ISCJB VI 27 21 46 14.2–.44 39.10N–.03 29.01E–.03 3–5 3.0L
CSEM VI 27 21 46 14.4–.11 39.08N 29.02E 5 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=1.6.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=150.0.
ISC VI 27 21 51 57.6–1.0 39.09N–.04 29.06E–.03 6–11 34 0-2
ISK VI 27 21 51 56.7 39.08N 29.10E 8 2.7 **¶17556407**
ISCJB VI 27 21 51 57.2–.52 39.09N–.05 29.05E–.05 5–8 2.7
DDA VI 27 21 51 57.1 39.10N 29.05E 7 2.3
CSEM VI 27 21 51 57.3–.12 39.10N 29.06E 5 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.3km az=145.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=126.0.
ISC VI 27 21 55 18.2–1.0 39.24N–.03 28.93E–.03 24–11 34 0-2
ISK VI 27 21 55 17.4 39.24N 28.86E 15 2.8 **¶602863519**
CSEM VI 27 21 55 17.4 39.24N 28.86E 15 2.8
ISCJB VI 27 21 55 18.8–.44 39.22N–.05 28.94E–.06 31–8 2.8
DDA VI 27 21 55 20.9 39.09N 29.02E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=5.4km az=141.3.
DDA Event type ke.
ISC VI 27 21 57 31.2–.92 39.06N–.02 29.03E–.03 11–9 42 0-2
DDA VI 27 21 57 30.9 39.07N 29.02E 7 2.7 **¶17556409**
ISK VI 27 21 57 30.8 39.07N 29.09E 7 2.4L
ISCJB VI 27 21 57 31.0–.53 39.07N–.04 29.04E–.04 4–8 2.4L
CSEM VI 27 21 57 31.1–.15 39.06N 29.04E 5 2.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=146.1.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=118.0.
ISC VI 27 21 59 28.0–.97 39.10N–.03 29.04E–.02 8–10 44 0-2
ISCJB VI 27 21 59 27.6–.50 39.09N–.04 29.04E–.04 4–8 **¶17556413**
DDA VI 27 21 59 27.6 39.09N 29.05E 7 2.6
CSEM VI 27 21 59 27.8–.09 39.10N 29.04E 5 2.6
ISK VI 27 21 59 27.3 39.10N 29.05E 6 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.1km az=149.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=125.0.
ISC VI 27 22 05 35.4–.93 39.09N–.04 29.01E–.03 15–9 32 0-2
ISK VI 27 22 05 34.7 39.12N 28.98E 5 2.5L **¶17556414**
ISCJB VI 27 22 05 35.3–.51 39.09N–.04 29.01E–.05 11–5 2.5L
DDA VI 27 22 05 35.5 39.05N 29.02E 7 2.7
CSEM VI 27 22 05 35.4–.10 39.10N 28.99E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=136.9.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=1.9km az=124.0.
ISC VI 27 22 07 27.5–1.0 39.10N–.03 29.04E–.03 8–10 35 0-2
ISK VI 27 22 07 26.8 39.10N 29.04E 5 2.7 **¶17556415**
DDA VI 27 22 07 26.9 39.08N 29.04E 7 2.6
ISCJB VI 27 22 07 27.1–.55 39.09N–.04 29.04E–.05 4–8 2.6
CSEM VI 27 22 07 27.4–.09 39.09N 29.03E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.8km az=138.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=109.0.
ISC VI 27 22 09 02.3–1.0 39.11N–.02 29.05E–.02 7–11 55 0-2
DDA VI 27 22 09 01.6 39.11N 29.05E 7 2.9 **¶17556416**
ISCJB VI 27 22 09 02.1–.50 39.11N–.03 29.02E–.03 3–8 2.9
CSEM VI 27 22 09 02.4–.11 39.10N 29.03E 5 2.9
ISK VI 27 22 09 02.0 39.11N 29.00E 6 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=1.6.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=132.0.
ISC VI 27 22 12 00.9–.92 39.12N–.04 29.03E–.03 12–8 36 0-1
ISCJB VI 27 22 12 00.7–.50 39.10N–.04 29.03E–.04 10–5 **¶17556417**
CSEM VI 27 22 12 00.6–.09 39.12N 29.02E 8 2.6
ISK VI 27 22 12 00.1 39.12N 29.04E 8 2.7
DDA VI 27 22 12 00.8 39.05N 29.04E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.0km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=122.0.
ISC VI 27 22 13 15.5–1.1 39.07N–.03 29.16E–.03 5–12 34 0-2
ISCJB VI 27 22 13 15.8–.50 39.08N–.04 29.10E–.05 8–7 **¶17556418**
DDA VI 27 22 13 16.0 39.11N 29.06E 7 2.5
CSEM VI 27 22 13 15.7–.19 39.07N 29.14E 8 2.7
ISK VI 27 22 13 15.0 39.05N 29.19E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=142.8.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.6km az=134.0.
ISC VI 27 22 15 33.3–.91 39.11N–.02 29.01E–.02 11–8 64 0-2

DDA VI 27 22 15 32.9 39.13N 29.02E 7 2.6 ¶17556419
ISCJB VI 27 22 15 33.2–.44 39.10N–.03 29.01E–.03 4–6 2.6
CSEM VI 27 22 15 33.5–.12 39.09N 29.01E 5 2.6
ISK VI 27 22 15 33.0 39.10N 29.03E 5 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=168.7.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=134.0.
ISC VI 27 22 19 05.1–1.0 38.59N–.02 39.52E–.03 12–9 30 0-1
DDA VI 27 22 19 04.4 38.60N 39.56E 7 2.5 ¶17556423
ISK VI 27 22 19 04.7 38.57N 39.55E 9 2.8
ISCJB VI 27 22 19 05.0–.56 38.59N–.03 39.55E–.05 8–8 2.8
CSEM VI 27 22 19 05.1–.32 38.58N 39.49E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=3.7.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=6.5km az=100.0.
ISC VI 27 22 24 51.4–1.0 39.10N–.02 29.02E–.01 4–8 3.6b,3.0s 232 0-55
DDA VI 27 22 24 50.1 39.12N 29.02E 5 3.9L,3.0s ¶16731650
ISK VI 27 22 24 50.9 39.10N 28.99E 5 4.0L,3.0s
THE VI 27 22 24 50.7 39.01N 29.20E 6–4 3.7L,3.0s
CSEM VI 27 22 24 51.6–.10 39.10N 29.02E 2 3.9L,3.0s
ISCJB VI 27 22 24 51.1–.44 39.12N–.02 29.00E–.02 2–4 3.6b,2.9s
IDC VI 27 22 24 51.8–1.3 39.17N 29.26E 0 3.7,3.6
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=6.5km s-min=0.9km az=128.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=33.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=171.2.
IDC Error ellipse: s-maj=23.9km s-min=15.8km az=27.0.
ISC VI 27 22 25 56.2–1.1 39.11N–.02 28.99E–.02 3–10 97 0-2
CSEM VI 27 22 25 56.8–.10 39.08N 29.01E 5 3.7L ¶17556424
ISK VI 27 22 25 56.0 39.09N 28.99E 3 3.8L
DDA VI 27 22 25 56.1 39.12N 29.00E 11 3.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=140.0.
ISC VI 27 22 32 37.7–1.1 39.11N–.02 29.01E–.02 4–10 78 0-2
DDA VI 27 22 32 37.5 39.11N 29.01E 7 3.2L ¶17556425
ISK VI 27 22 32 37.3 39.08N 29.01E 4 2.8L
CSEM VI 27 22 32 37.9–.15 39.09N 29.01E 2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=153.0.
ISC VI 27 22 36 26.0–.94 39.07N–.03 29.00E–.02 9–9 41 0-2
ISCJB VI 27 22 36 25.8–.55 39.09N–.04 28.98E–.04 2–8 ¶17556426
DDA VI 27 22 36 25.6 39.08N 29.01E 7 2.6
ISK VI 27 22 36 25.7 39.09N 28.99E 7 2.6L
CSEM VI 27 22 36 26.0–.12 39.09N 28.99E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.2km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=143.0.
ISC VI 27 22 41 04.5–.98 39.10N–.02 29.01E–.02 6–9 92 0-2
DDA VI 27 22 41 04.0 39.11N 29.02E 3 3.5L ¶602863531
ISK VI 27 22 41 04.0 39.08N 29.02E 4 3.1L
CSEM VI 27 22 41 04.8–.11 39.07N 29.02E 5 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=150.0.
ISC VI 27 22 46 36.8–.89 39.11N–.03 29.04E–.02 13–9 42 0-1
ISCJB VI 27 22 46 36.5–.43 39.10N–.03 29.04E–.04 11–5 ¶17556428
CSEM VI 27 22 46 36.6–.09 39.10N 29.04E 10 2.6
DDA VI 27 22 46 36.7 39.04N 29.05E 7 2.6
ISK VI 27 22 46 36.1 39.12N 29.03E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.9km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=139.0.
ISC VI 27 22 51 35.3–1.0 39.10N–.02 29.05E–.02 4–12 66 0-2
DDA VI 27 22 51 34.8 39.10N 29.06E 7 3.1L ¶17556429
ISK VI 27 22 51 34.1 39.08N 29.03E 2 2.8
CSEM VI 27 22 51 35.1–.12 39.09N 29.05E 2 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=147.0.
ISC VI 27 22 52 37.9–.92 39.08N–.03 29.05E–.03 13–9 31 0-2
DDA VI 27 22 52 37.6 39.17N 29.00E 7 2.6 ¶17556430
ISK VI 27 22 52 37.5 39.06N 29.11E 7 2.7
ISCJB VI 27 22 52 38.1–.51 39.07N–.05 29.04E–.05 7–8 2.7
CSEM VI 27 22 52 38.4–.12 39.09N 29.01E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.3km az=145.1.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=124.0.
ISC VI 27 22 53 31.9–.89 39.09N–.02 29.06E–.02 13–8 52 0-2
ISK VI 27 22 53 31.6 39.09N 29.03E 5 2.8 ¶17556433
DDA VI 27 22 53 31.6 39.08N 29.06E 10 2.8
ISCJB VI 27 22 53 32.0–.41 39.08N–.04 29.04E–.03 7–6 2.8
CSEM VI 27 22 53 32.1–.12 39.09N 29.05E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=170.4.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=148.0.
ISC VI 27 22 55 26.3–.99 39.07N–.02 29.02E–.02 7–9 44 0-2
DDA VI 27 22 55 26.0 39.08N 29.02E 7 2.4 ¶17556434
ISCJB VI 27 22 55 26.1–.60 39.08N–.04 29.02E–.04 1–9 2.4
CSEM VI 27 22 55 26.3–.11 39.08N 29.02E 2 2.4
ISK VI 27 22 55 26.1 39.08N 29.07E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.0km az=148.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=123.0.
ISC VI 27 22 57 28.8–.90 39.11N–.03 29.01E–.02 9 48 0-2
ISCJB VI 27 22 57 28.6–.41 39.09N–.03 29.03E–.04 9 ¶17556436
DDA VI 27 22 57 28.6 39.07N 29.03E 7 2.8
CSEM VI 27 22 57 28.6–.09 39.10N 29.03E 5 2.8
ISK VI 27 22 57 28.2 39.11N 29.04E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.6km az=145.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=134.0.
DDA VI 27 23 03 34.5 39.04N 29.01E 7 2.5
¶603482811
ISC VI 27 23 03 58.7–.95 39.14N–.02 28.99E–.02 8–10 56 0-2
CSEM VI 27 23 03 57.9 39.13N 28.99E 9 2.9 ¶17556437
ISK VI 27 23 03 57.9 39.13N 28.99E 9 2.9
ISCJB VI 27 23 03 58.3–.46 39.12N–.04 28.98E–.03 6–6 2.9
DDA VI 27 23 03 58.7 39.10N 29.01E 7 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=158.0.
ISC VI 27 23 11 47.4–.90 39.18N–.02 28.98E–.02 17–8 46 0-2
ISK VI 27 23 11 46.6 39.18N 28.97E 7 2.8 ¶602863533
ISCJB VI 27 23 11 47.2–.44 39.15N–.03 28.99E–.04 13–5 2.8
DDA VI 27 23 11 47.7 39.11N 29.03E 7 2.5
CSEM VI 27 23 11 47.2–.11 39.17N 28.97E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.1km az=143.9.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=113.0.
ISC VI 27 23 23 58.5–.89 39.08N–.02 29.01E–.02 12–7 46 0-2
ISCJB VI 27 23 23 58.5–.44 39.08N–.03 29.02E–.03 6–7 ¶17556439
ISK VI 27 23 23 58.2 39.09N 29.03E 5 2.8
CSEM VI 27 23 23 58.7–.09 39.08N 29.02E 5 2.4
DDA VI 27 23 23 58.0 39.12N 29.01E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=154.3.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=124.0.
ISC VI 27 23 41 41.0–.91 39.08N–.02 29.02E–.02 10–8 167 0-8
DDA VI 27 23 41 39.9 39.11N 29.02E 1 3.9L ¶602863536
ISK VI 27 23 41 40.7 39.07N 29.00E 8 4.0L
CSEM VI 27 23 41 41.0–.09 39.09N 29.00E 2 3.9L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=74.0.
ISC VI 27 23 48 01.2–1.1 39.10N–.02 29.03E–.02 3–10 80 0-2
DDA VI 27 23 48 00.8 39.10N 29.01E 10 3.0L ¶17556441
ISK VI 27 23 48 00.8 39.10N 29.07E 5 2.8L,2.7
CSEM VI 27 23 48 01.2–.11 39.08N 29.04E 2 3.0L,2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=138.0.
ISC VI 27 23 52 23.6–.97 39.08N–.02 29.02E–.02 8–9 71 0-2
DDA VI 27 23 52 23.4 39.08N 29.02E 7 3.0L ¶17556442
ISK VI 27 23 52 23.2 39.07N 29.01E 7 2.9
CSEM VI 27 23 52 23.6–.11 39.08N 29.01E 2 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=132.0.
ISC VI 28 00 05 05.3–.97 39.10N–.03 29.02E–.03 14–9 26 0-1
ISK VI 28 00 05 04.8 39.12N 29.05E 7 2.6 ¶17556443
ISCJB VI 28 00 05 05.2–.56 39.11N–.04 29.02E–.05 11–6 2.6
DDA VI 28 00 05 05.3 39.10N 29.02E 7 2.6
CSEM VI 28 00 05 05.2–.13 39.11N 29.02E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.6km az=140.9.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=131.0.
ISC VI 28 00 13 20.2–1.1 39.10N–.02 29.09E–.02 3–11 97 0-2
ISK VI 28 00 13 19.8 39.10N 29.10E 5 3.2L ¶17556445
DDA VI 28 00 13 20.9 39.05N 29.07E 7 3.5L
CSEM VI 28 00 13 21.3–.14 39.08N 29.08E 5 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=143.0.
ISC VI 28 00 20 11.6–.98 39.09N–.03 29.07E–.02 8–11 40 0-2
ISCJB VI 28 00 20 11.7–.46 39.08N–.04 29.04E–.04 7–7 ¶17556446
CSEM VI 28 00 20 11.8–.13 39.08N 29.05E 8 2.6
ISK VI 28 00 20 11.0 39.08N 29.08E 5 2.7
DDA VI 28 00 20 12.0 39.06N 29.02E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=149.4.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=142.0.
ISC VI 28 00 20 55.1–.94 39.11N–.03 29.01E–.02 9–9 58 0-2
ISCJB VI 28 00 20 55.0–.45 39.10N–.04 29.00E–.03 4–7 ¶17556449
DDA VI 28 00 20 54.5 39.11N 29.02E 7 3.1L
ISK VI 28 00 20 54.8 39.11N 29.00E 5 2.9
CSEM VI 28 00 20 55.2–.13 39.10N 29.01E 5 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=175.6.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=157.0.
DDA VI 28 00 25 38.9 39.06N 29.03E 7 2.3
¶602863550
ISC VI 28 00 27 29.8–1.1 38.60N–.02 41.41E–.02 8–10 66 0-2
ISCJB VI 28 00 27 29.4–.52 38.58N–.02 41.40E–.03 0–5 ¶17556450
CSEM VI 28 00 27 29.6–.18 38.61N 41.39E 10 3.1
ISK VI 28 00 27 29.2 38.59N 41.41E 10 3.1
DDA VI 28 00 27 29.7 38.60N 41.41E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=154.5.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=56.0.
ISC VI 28 00 29 51.0–.94 39.13N–.04 29.00E–.04 9 26 0-1
ISCJB VI 28 00 29 50.7–.54 39.13N–.04 28.99E–.05 9 ¶602863552
ISK VI 28 00 29 50.2 39.13N 29.01E 8 2.7
CSEM VI 28 00 29 51.0–.15 39.13N 28.98E 10 2.7
DDA VI 28 00 29 52.7 38.99N 29.04E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.1km az=38.4.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=121.0.
ISC VI 28 00 38 14.4–.94 39.08N–.04 29.04E–.03 14–9 34 0-2
ISCJB VI 28 00 38 14.8–.53 39.11N–.05 29.02E–.05 15–11 ¶17556452
DDA VI 28 00 38 14.7 39.07N 29.02E 7 2.6
CSEM VI 28 00 38 14.5–.13 39.08N 29.03E 15 2.6
ISK VI 28 00 38 14.4 39.06N 29.11E 20 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.9km az=147.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=128.0.
ISC VI 28 00 39 53.2–1.2 39.03N–.03 29.08E–.03 2–11 35 0-2
DDA VI 28 00 39 50.7 39.07N 29.06E 7 2.7 ¶17556453
ISK VI 28 00 39 54.6 39.10N 29.04E 8 2.8
ISCJB VI 28 00 39 55.0–.53 39.09N–.03 29.03E–.04 10–5 2.8
CSEM VI 28 00 39 55.2–.12 39.08N 29.04E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=139.0.
ISK VI 28 00 44 44.2 39.10N 29.05E 11 2.6
CSEM VI 28 00 44 44.2 39.10N 29.05E 11 2.6 ¶603482812
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DDA VI 28 00 45 15.9 39.07N 29.05E 7 2.3
¶17556454
ISC VI 28 01 02 26.0–.91 39.09N–.02 29.02E–.02 10–9 48 0-2
ISCJB VI 28 01 02 25.9–.41 39.09N–.03 29.01E–.03 6–6 ¶17556456
DDA VI 28 01 02 25.7 39.08N 29.02E 9 2.7
ISK VI 28 01 02 25.7 39.11N 29.01E 7 2.8
CSEM VI 28 01 02 26.0–.11 39.09N 29.02E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.7km az=165.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=146.0.
ISC VI 28 01 05 02.6–.97 39.10N–.02 29.03E–.02 9–8 75 0-2
CSEM VI 28 01 05 02.7–.11 39.09N 29.02E 2 3.0L ¶17556457
DDA VI 28 01 05 02.1 39.10N 29.02E 7 3.0L
ISK VI 28 01 05 02.1 39.10N 29.00E 3 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=157.0.
ISC VI 28 01 14 03.6–.90 39.09N–.03 29.02E–.02 12–8 42 0-2
ISCJB VI 28 01 14 03.6–.46 39.09N–.04 29.02E–.04 8–6 ¶17556458
DDA VI 28 01 14 03.5 39.09N 29.01E 7 2.6
ISK VI 28 01 14 03.3 39.11N 29.04E 8 2.8
CSEM VI 28 01 14 03.7–.09 39.09N 29.02E 8 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=146.1.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=127.0.
ISC VI 28 01 15 36.6–.91 39.04N–.04 29.01E–.04 15–9 24 0-1
ISCJB VI 28 01 15 36.8–.71 39.08N–.05 29.04E–.05 18–13 ¶17556459
DDA VI 28 01 15 36.8 39.02N 29.06E 7 2.4
CSEM VI 28 01 15 36.5–.47 39.08N 29.00E 5 2.4
ISK VI 28 01 15 36.1 39.11N 28.99E 3 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.1km az=144.8.
CSEM Event type ke. Error ellipse: s-maj=14.7km s-min=8.2km az=139.0.
ISC VI 28 01 18 43.5–.94 39.08N–.03 29.06E–.03 11–10 38 0-2
ISCJB VI 28 01 18 43.4–.47 39.08N–.03 29.05E–.04 10–5 ¶17556460
DDA VI 28 01 18 43.2 39.13N 29.03E 7 2.7
ISK VI 28 01 18 43.0 39.09N 29.06E 8 2.7
CSEM VI 28 01 18 43.6–.12 39.08N 29.05E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=140.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=126.0.
ISC VI 28 01 19 56.2–.93 39.06N–.04 29.06E–.03 14–10 38 0-2
ISCJB VI 28 01 19 56.6–.46 39.08N–.03 29.02E–.04 10–5 ¶17556461
CSEM VI 28 01 19 56.7–.06 39.08N 29.02E 9–0 2.6
ISK VI 28 01 19 56.1 39.10N 29.02E 7 2.7
DDA VI 28 01 19 56.1 39.15N 29.00E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=145.4.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=149.0.
ISC VI 28 01 28 09.5–.89 39.09N–.03 28.99E–.02 16–7 42 0-2
ISCJB VI 28 01 28 09.5–.45 39.08N–.04 29.00E–.04 11–5 ¶17556462
CSEM VI 28 01 28 09.5–.08 39.09N 28.99E 8 2.7

DDA VI 28 01 28 09.1 39.04N 29.02E 7 2.7
ISK VI 28 01 28 09.1 39.10N 28.98E 8 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.3km az=151.6.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=126.0.
ISC VI 28 01 35 48.0–.00 39.12N–.02 29.00E–.02 6–10 86 0-2
DDA VI 28 01 35 47.8 39.12N 29.00E 7 2.9 ¶17556463
CSEM VI 28 01 35 48.3–.11 39.10N 29.00E 2 2.9
ISK VI 28 01 35 48.0 39.11N 29.00E 5 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=150.0.
ISC VI 28 01 42 15.3–.91 39.08N–.04 29.03E–.03 14–7 28 0-1
ISK VI 28 01 42 14.3 39.09N 29.04E 11 2.6 ¶17556466
ISCJB VI 28 01 42 15.1–.54 39.08N–.04 29.03E–.05 11–5 2.6
CSEM VI 28 01 42 15.0–.13 39.08N 29.02E 10 2.4
DDA VI 28 01 42 15.3 39.04N 29.03E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.4km az=44.9.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.4km az=125.0.
ISC VI 28 01 55 21.1–.92 39.10N–.03 29.01E–.02 13–8 44 0-2
ISCJB VI 28 01 55 20.8–.46 39.09N–.04 29.01E–.03 6–7 ¶17556467
DDA VI 28 01 55 20.6 39.11N 29.01E 7 2.8
ISK VI 28 01 55 20.6 39.11N 29.00E 6 2.8
CSEM VI 28 01 55 21.0–.08 39.10N 29.01E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=170.1.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=136.0.
ISC VI 28 02 28 15.4–.91 39.09N–.03 29.02E–.02 12–8 52 0-2
DDA VI 28 02 28 14.9 39.09N 29.03E 7 2.6L ¶17556468
ISK VI 28 02 28 14.8 39.09N 29.00E 7 2.8
ISCJB VI 28 02 28 15.2–.45 39.09N–.03 29.01E–.03 4–6 2.8
CSEM VI 28 02 28 15.5–.14 39.08N 29.01E 8 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=162.7.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=138.0.
ISC VI 28 02 43 29.5–.78 39.97N–.01 27.70E–.01 13–5 185 0-3
ATH VI 28 02 43 28.5 39.95N 27.68E 22–2 3.0L ¶17556470
CSEM VI 28 02 43 29.7–.07 39.97N 27.68E 10 3.1L
DDA VI 28 02 43 29.4 39.98N 27.71E 7 3.6L
IASPE VI 28 02 43 29.4–.81 39.97N–.02 27.71E–.02 13–5 3.6L
ISCJB VI 28 02 43 29.5–.30 39.98N–.02 27.68E–.02 9–2 3.6L
ISK VI 28 02 43 29.1 39.97N 27.70E 7 3.1L
THE VI 28 02 43 31.4 39.99N 27.72E 20–4 3.3L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.9km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.7km az=67.0.
IASPE Event type ke. Error ellipse: s-maj=2.7km s-min=2.6km az=117.5. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=28.9.
THE Event type ke. Error ellipse: s-maj=4.4km s-min=1.2km az=94.0.
ISC VI 28 02 56 36.2–.91 39.12N–.02 29.00E–.02 11–8 62 0-2
DDA VI 28 02 56 36.0 39.13N 29.00E 7 2.7L ¶17556472
ISK VI 28 02 56 35.9 39.11N 29.01E 8 2.9
ISCJB VI 28 02 56 36.2–.43 39.11N–.03 29.00E–.03 5–6 2.9
CSEM VI 28 02 56 36.4–.12 39.09N 29.00E 8 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=169.7.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=160.0.
ISC VI 28 03 01 26.9–1.0 39.14N–.03 28.96E–.03 6–11 32 0-2
ISCJB VI 28 03 01 26.6–.73 39.14N–.05 28.96E–.05 2–11 ¶17556473
CSEM VI 28 03 01 26.6–.20 39.14N 28.94E 5 2.2L
ISK VI 28 03 01 26.2 39.14N 28.97E 5 2.7
DDA VI 28 03 01 27.1 39.07N 29.01E 7 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.3km az=147.7.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.0km az=133.0.
ISC VI 28 03 25 11.3–.97 39.12N–.03 29.02E–.03 8–9 44 0-2
ISK VI 28 03 25 10.6 39.12N 29.03E 8 2.8 ¶17556474
ISCJB VI 28 03 25 11.1–.51 39.12N–.04 29.01E–.04 5–8 2.8
CSEM VI 28 03 25 11.1–.15 39.11N 29.00E 8 2.3L
DDA VI 28 03 25 11.1 39.12N 29.02E 7 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=150.1.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=135.0.
ISC VI 28 03 36 29.1–.97 39.11N–.03 29.01E–.02 7–10 46 0-2
ISCJB VI 28 03 36 28.8–.46 39.10N–.04 29.00E–.03 5–7 ¶17556475
CSEM VI 28 03 36 28.9–.11 39.09N 29.02E 5 2.6L
ISK VI 28 03 36 28.4 39.10N 29.03E 6 2.8
DDA VI 28 03 36 29.0 39.09N 29.00E 7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.9km az=155.7.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=135.0.
ISC VI 28 03 38 33.7–.91 39.09N–.03 28.99E–.03 12–9 38 0-2
ISCJB VI 28 03 38 33.8–.50 39.11N–.04 28.98E–.04 6–7 ¶17556476
DDA VI 28 03 38 33.8 39.03N 29.02E 7 2.3L
CSEM VI 28 03 38 33.8–.12 39.10N 28.99E 8 2.3L
ISK VI 28 03 38 33.2 39.13N 28.98E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.0km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=133.0.
ISC VI 28 04 06 23.7–1.0 39.12N–.04 29.01E–.03 14–10 28 0-1
ISK VI 28 04 06 22.9 39.14N 28.98E 8 2.6 ¶17556478
ISCJB VI 28 04 06 23.5–.54 39.11N–.04 29.02E–.05 12–6 2.6
DDA VI 28 04 06 23.6 39.10N 29.02E 7 2.7
CSEM VI 28 04 06 23.5–.09 39.12N 29.00E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.5km az=139.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=130.0.
ISC VI 28 04 10 11.5–.88 39.10N–.02 28.99E–.02 12–7 58 0-2
DDA VI 28 04 10 10.7 39.14N 28.99E 7 2.9 ¶17556479
ISCJB VI 28 04 10 11.5–.40 39.08N–.03 29.00E–.03 12–4 2.9
CSEM VI 28 04 10 11.6–.09 39.08N 29.00E 10 2.9
ISK VI 28 04 10 11.2 39.10N 29.00E 10 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=165.7.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=145.0.
ISC VI 28 04 12 47.2–1.0 39.13N–.02 29.00E–.02 4–10 68 0-2
ISCJB VI 28 04 12 46.9–.50 39.14N–.03 29.02E–.03 1–5 ¶17556480
DDA VI 28 04 12 46.5 39.12N 29.01E 7 3.0
CSEM VI 28 04 12 47.3–.11 39.12N 29.02E 5 3.0
ISK VI 28 04 12 47.1 39.16N 29.03E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=170.7.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=170.0.
ISC VI 28 04 22 15.9–.90 39.08N–.03 29.00E–.03 14–8 28 0-2
ISCJB VI 28 04 22 15.9–.55 39.07N–.04 29.02E–.05 10–5 ¶17556481
ISK VI 28 04 22 15.4 39.04N 29.14E 10 2.6
CSEM VI 28 04 22 15.8–.18 39.08N 29.01E 8 2.4
DDA VI 28 04 22 15.9 39.08N 29.01E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.3km az=136.9.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.2km az=128.0.
DDA Event type ke.
ISC VI 28 04 23 35.7–.91 39.08N–.04 29.01E–.03 15–8 28 0-1
ISCJB VI 28 04 23 35.6–.54 39.08N–.04 29.01E–.05 12–6 ¶17556482
CSEM VI 28 04 23 35.6–.06 39.09N 29.00E 10 2.4
ISK VI 28 04 23 35.0 39.07N 29.03E 12 2.6
DDA VI 28 04 23 36.0 39.06N 29.01E 7 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.4km az=139.9.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.2km az=131.0.
DDA Event type ke.
ISC VI 28 05 24 25.4–.94 39.11N–.02 28.99E–.02 9–8 60 0-2
DDA VI 28 05 24 24.9 39.11N 29.00E 7 2.9 ¶17556485
ISCJB VI 28 05 24 25.4–.43 39.10N–.03 29.00E–.03 7–6 2.9
CSEM VI 28 05 24 25.6–.11 39.11N 29.00E 5 2.9
ISK VI 28 05 24 25.2 39.10N 28.99E 8 2.8L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=4.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=144.0.
ISC VI 28 05 29 26.1–.89 39.11N–.02 28.99E–.02 11–8 64 0-2
DDA VI 28 05 29 25.6 39.11N 29.01E 7 3.0 ¶17556486
ISK VI 28 05 29 25.9 39.08N 29.01E 9 2.8L
ISCJB VI 28 05 29 26.1–.41 39.09N–.03 29.00E–.03 7–6 2.8L
CSEM VI 28 05 29 26.2–.11 39.09N 29.01E 5 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=172.2.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=151.0.
ISC VI 28 05 45 50.4–.91 39.10N–.02 28.99E–.02 10–8 84 0-2
DDA VI 28 05 45 50.0 39.13N 28.97E 12 3.4 ¶17556489
CSEM VI 28 05 45 50.7–.11 39.07N 29.00E 5 3.4
ISK VI 28 05 45 50.1 39.08N 29.01E 6 3.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=147.0.
ISC VI 28 05 50 57.3–.92 39.08N–.02 28.99E–.03 14–7 36 0-1
DDA VI 28 05 50 56.9 39.10N 29.00E 7 2.6 ¶17556490
ISK VI 28 05 50 56.7 39.09N 28.99E 5 2.3L
ISCJB VI 28 05 50 57.1–.49 39.08N–.03 29.00E–.04 4–8 2.3L
CSEM VI 28 05 50 57.3–.15 39.08N 28.99E 5 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=150.9.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=121.0.
ISC VI 28 05 56 29.6–.93 39.08N–.03 29.00E–.03 11–8 32 0-1
ISCJB VI 28 05 56 29.6–.59 39.08N–.05 29.01E–.05 2–10 ¶17556491
DDA VI 28 05 56 29.3 39.09N 29.00E 7 2.8
CSEM VI 28 05 56 29.7–.11 39.09N 29.01E 2 2.8
ISK VI 28 05 56 29.4 39.07N 29.06E 6 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=4.3km az=147.9.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.0km az=133.0.
ISC VI 28 06 19 36.2–.94 37.27N–.03 38.67E–.03 13–7 28 0-2
CSEM VI 28 06 19 35.6 37.28N 38.63E 5 2.4L ¶17556492
ISK VI 28 06 19 35.6 37.28N 38.63E 5 2.4L
ISCJB VI 28 06 19 36.6–.93 37.31N–.04 38.62E–.05 9–6 2.4L
NSSC VI 28 06 19 38.5–1.4 36.74N 38.92E 23–17 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.4km az=145.5.
NSSC Error ellipse: s-maj=6.3km s-min=3.8km az=-1.0.
ISC VI 28 06 20 54.0–.95 39.08N–.03 29.05E–.03 12–10 32 0-2
ISCJB VI 28 06 20 53.9–.59 39.09N–.05 29.05E–.05 4–8 ¶17556493
DDA VI 28 06 20 53.8 39.09N 29.06E 7 2.6
ISK VI 28 06 20 54.4 39.18N 29.08E 2 2.7
CSEM VI 28 06 20 54.0–.20 39.08N 29.04E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.8km az=152.7.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.0km az=136.0.
ISC VI 28 06 25 37.8–.88 39.09N–.03 29.02E–.02 14–8 46 0-2
ISCJB VI 28 06 25 37.8–.41 39.09N–.03 29.00E–.03 9–6 ¶17556494
DDA VI 28 06 25 37.6 39.09N 29.02E 7 2.7
ISK VI 28 06 25 37.4 39.11N 29.00E 5 2.6L
CSEM VI 28 06 25 37.9–.12 39.09N 29.01E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.8km az=159.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=144.0.
ISC VI 28 06 31 33.9–.92 39.11N–.02 28.99E–.02 9–8 71 0-2
ISCJB VI 28 06 31 33.5–.44 39.10N–.03 28.99E–.03 3–6 ¶17556495
CSEM VI 28 06 31 33.9–.11 39.10N 28.99E 5 3.2L
ISK VI 28 06 31 33.4 39.12N 28.98E 5 3.0L
DDA VI 28 06 31 33.5 39.10N 29.01E 7 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=168.4.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=156.0.
ISC VI 28 06 48 24.6–1.0 39.13N–.02 29.10E–.02 4–10 84 0-2
CSEM VI 28 06 48 24.5–.11 39.13N 29.10E 2 3.4L ¶17556496
ISK VI 28 06 48 24.0 39.11N 29.10E 5 3.4L
DDA VI 28 06 48 24.3 39.15N 29.12E 7 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=134.0.
ISC VI 28 07 36 13.1–.00 39.16N–.02 29.00E–.02 6–9 78 0-2
DDA VI 28 07 36 12.8 39.14N 29.00E 9 3.2L ¶17556499
ISK VI 28 07 36 12.4 39.16N 29.02E 6 3.1L
CSEM VI 28 07 36 13.0–.11 39.16N 29.01E 5 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=147.0.
ISC VI 28 07 42 09.0–.96 39.06N–.03 29.03E–.03 11–10 32 0-2
ISCJB VI 28 07 42 08.7–.49 39.05N–.04 29.03E–.04 7–8 ¶17556500
DDA VI 28 07 42 08.5 39.09N 29.03E 7 2.9
ISK VI 28 07 42 08.2 39.07N 29.04E 6 2.3L
CSEM VI 28 07 42 09.1–.21 39.05N 29.03E 2 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.3km az=143.9.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=127.0.
DDA VI 28 07 53 00.7 39.16N 28.98E 7 2.4 ¶602863589
DDA Event type ke.
ISC VI 28 08 21 23.9–.96 39.14N–.02 29.00E–.02 8–8 126 0-3
DDA VI 28 08 21 23.4 39.15N 29.01E 7 3.6L ¶17556502
ISK VI 28 08 21 23.7 39.14N 29.00E 5 3.7L
CSEM VI 28 08 21 24.0–.10 39.14N 29.01E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=149.0.
ISC VI 28 08 25 49.4–1.1 38.76N–.03 38.40E–.03 10–10 35 1-2
DDA VI 28 08 25 48.8 38.77N 38.38E 7 2.9L ¶17556504
CSEM VI 28 08 25 49.5–.19 38.75N 38.40E 2 2.9L
ISK VI 28 08 25 49.1 38.77N 38.39E 16 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=148.0.
ISK VI 28 09 01 25.4 37.31N 28.05E 28 2.5L
CSEM VI 28 09 01 25.4 37.31N 28.05E 28 2.5L ¶17556511
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 28 09 03 08.7–.99 39.12N–.02 29.00E–.02 7–9 64 0-2
ISCJB VI 28 09 03 08.4–.49 39.11N–.04 28.99E–.03 4–7 ¶17556512
DDA VI 28 09 03 08.1 39.13N 28.99E 7 2.7L
ISK VI 28 09 03 08.4 39.13N 29.03E 8 2.7L
CSEM VI 28 09 03 08.7–.09 39.10N 29.00E 5 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.6km az=158.9.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=145.0.
ISC VI 28 09 23 03.5–1.1 39.78N–.02 30.20E–.02 3–10 43 0-1
ISK VI 28 09 23 02.7 39.75N 30.19E 10 2.1L ¶17556514
CSEM VI 28 09 23 03.6–.15 39.78N 30.21E 8 2.5L

DDA VI 28 09 23 04.8 39.81N 30.28E 7 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=26.0.
ISC VI 28 09 29 17.9–1.0 36.01N–.02 35.80E–.02 6–8 3.4b 221 0-38
DDA VI 28 09 29 15.5 35.90N 35.80E 16 3.6L ¶16684162
ISK VI 28 09 29 16.0 35.90N 35.83E 11 3.6L
IDC VI 28 09 29 17.7–.95 35.94N 35.54E 0 3.6,3.5
CSEM VI 28 09 29 17.8–.10 36.03N 35.83E 2 3.6L,3.5
ISCJB VI 28 09 29 18.1–.43 36.01N–.01 35.81E–.02 11–3 3.4b,3.5
NIC VI 28 09 29 19.7–.20 35.08N 36.05E 5 4.4b,4.2L
NSSC VI 28 09 29 19.3–1.3 36.03N 35.86E 13–2 3.6L,4.2L
GII VI 28 09 29 19.3–.00 35.84N 35.43E 1 3.2,4.2L
ISC Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=12.9km az=85.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=172.0.
NSSC Error ellipse: s-maj=2.9km s-min=5.2km az=-1.0.
GII Event type ke.
ISC VI 28 10 05 31.5–.90 39.13N–.03 29.01E–.02 12–8 64 0-2
ISK VI 28 10 05 30.6 39.13N 29.01E 10 2.7L ¶17556515
ISCJB VI 28 10 05 31.1–.43 39.13N–.03 28.99E–.03 7–5 2.7L
DDA VI 28 10 05 31.2 39.12N 29.02E 6 3.0
CSEM VI 28 10 05 31.2–.07 39.13N 29.00E 8 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=167.8.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=162.0.
DDA VI 28 10 36 47.0 39.08N 28.90E 30 2.5
¶602863592
ISC VI 28 11 12 23.1–.00 39.11N–.03 29.06E–.02 10–9 50 0-2
ISK VI 28 11 12 22.9 39.09N 29.04E 8 2.9L ¶17556516
ISCJB VI 28 11 12 23.4–.43 39.10N–.04 29.03E–.03 10–5 2.9L
DDA VI 28 11 12 23.2 39.11N 29.02E 7 3.0
CSEM VI 28 11 12 23.7–.10 39.09N 29.05E 10 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=168.8.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=167.0.
ISC VI 28 11 46 16.3–1.1 38.60N–.03 39.53E–.03 17–10 33 0-2
ISK VI 28 11 46 15.5 38.59N 39.57E 5 2.9 ¶17556517
ISCJB VI 28 11 46 17.1–.57 38.60N–.03 39.55E–.05 8–7 2.9
CSEM VI 28 11 46 17.5–.28 38.60N 39.50E 10 2.9
DDA VI 28 11 46 17.5 38.62N 39.54E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=5.0km az=33.1.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=6.3km az=146.0.
ISC VI 28 12 11 42.0–.98 39.11N–.02 29.05E–.02 7–9 77 0-2
DDA VI 28 12 11 41.5 39.11N 29.04E 7 3.0 ¶17556519
ISK VI 28 12 11 41.4 39.08N 29.06E 5 3.0L
CSEM VI 28 12 11 42.0–.11 39.10N 29.05E 2 3.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=170.0.
ISC VI 28 12 44 46.0–1.1 37.09N–.03 32.87E–.02 6–11 47 1-2
DDA VI 28 12 44 45.0 37.09N 32.87E 6 3.2 ¶17556521
ISCJB VI 28 12 44 45.8–1.0 37.06N–.03 32.84E–.04 4–7 3.2
CSEM VI 28 12 44 45.9–.21 37.06N 32.88E 5 3.0
ISK VI 28 12 44 46.5 37.11N 32.86E 10 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=27.8.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=4.0km az=28.0.
ISC VI 28 12 56 10.7–1.1 37.09N–.02 32.86E–.02 6–10 58 0-3
ISCJB VI 28 12 56 10.7–.61 37.09N–.02 32.82E–.03 5–5 ¶17556522
DDA VI 28 12 56 10.1 37.10N 32.86E 22 3.3
CSEM VI 28 12 56 11.0–.19 37.08N 32.85E 10 3.3
ISK VI 28 12 56 11.8 37.15N 32.78E 10 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=147.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=60.0.
ISC VI 28 13 19 28.2–.95 39.08N–.03 29.06E–.02 10–9 44 0-2
ISCJB VI 28 13 19 28.0–.57 39.09N–.04 29.05E–.04 2–8 ¶17556525
DDA VI 28 13 19 27.6 39.13N 29.05E 7 2.7
ISK VI 28 13 19 27.7 39.07N 29.08E 6 2.8L
CSEM VI 28 13 19 28.2–.13 39.08N 29.06E 2 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.1km az=156.1.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=140.0.
ISC VI 28 13 28 25.9–1.0 37.37N–.03 36.36E–.02 6–9 47 0-2
ISCJB VI 28 13 28 25.8–.47 37.36N–.03 36.34E–.03 1–6 ¶17556526
ISK VI 28 13 28 25.1 37.40N 36.37E 7 2.8
CSEM VI 28 13 28 26.1–.24 37.41N 36.34E 2 2.8
DDA VI 28 13 28 26.2 37.40N 36.39E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=179.9.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=170.0.
ISC VI 28 14 38 06.7–.95 39.14N–.02 29.02E–.02 9–9 76 0-2
DDA VI 28 14 38 06.2 39.16N 29.03E 7 3.1L ¶17556528
CSEM VI 28 14 38 06.7–.12 39.14N 29.01E 2 3.1L
ISK VI 28 14 38 06.2 39.12N 29.00E 5 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=4.0.
ISC VI 28 15 21 08.0–1.0 39.16N–.03 29.02E–.02 6–10 56 0-2
ISCJB VI 28 15 21 07.9–.52 39.16N–.03 29.01E–.03 3–6 ¶17556531
ISK VI 28 15 21 07.5 39.14N 29.03E 5 2.7L
DDA VI 28 15 21 07.6 39.13N 29.03E 7 3.0
CSEM VI 28 15 21 08.1–.12 39.14N 29.02E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=168.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=159.0.
ISC VI 28 16 29 41.9–.93 39.08N–.03 29.05E–.02 10–8 40 0-2
DDA VI 28 16 29 40.7 39.19N 29.04E 7 2.3 ¶17556533
ISCJB VI 28 16 29 41.8–.50 39.08N–.04 29.05E–.04 7–6 2.3
ISK VI 28 16 29 41.4 39.07N 29.06E 8 2.8
CSEM VI 28 16 29 41.7–.09 39.08N 29.05E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.9km az=155.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=149.0.
ISC VI 28 19 19 26.4–.91 40.62N–.02 29.07E–.02 8–7 82 0-2
DDA VI 28 19 19 25.9 40.60N 29.06E 12 2.5 ¶17556534
CSEM VI 28 19 19 26.4–.09 40.62N 29.08E 2 2.6L
ISK VI 28 19 19 26.0 40.63N 29.08E 5 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=4.0.
ISC VI 28 19 28 07.4–1.1 37.80N–.05 29.15E–.05 7–8 24 0-1
ISCJB VI 28 19 28 07.6–.72 37.78N–.04 29.14E–.07 7–7 ¶17556538
DDA VI 28 19 28 07.1 37.78N 29.11E 7 2.8
CSEM VI 28 19 28 07.6–.21 37.75N 29.15E 2 2.5
ISK VI 28 19 28 07.2 37.77N 29.15E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.0km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.4km az=58.0.
ISC VI 28 22 00 19.2–1.1 38.29N–.02 42.44E–.02 4–9 71 0-2
DDA VI 28 22 00 19.0 38.33N 42.37E 7 2.8 ¶17556540
ISCJB VI 28 22 00 19.3–.50 38.28N–.02 42.43E–.03 2–5 2.8
CSEM VI 28 22 00 19.2–.14 38.30N 42.44E 5 2.8
ISK VI 28 22 00 19.3 38.26N 42.44E 10 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=156.0.
ISC VI 28 22 46 27.5–.98 40.24N–.02 29.26E–.02 3–8 74 0-2
ISCJB VI 28 22 46 27.5–.51 40.23N–.03 29.24E–.03 1–5 ¶17556541
CSEM VI 28 22 46 27.9–.12 40.24N 29.25E 8 2.9
ISK VI 28 22 46 27.4 40.25N 29.24E 5 2.9
DDA VI 28 22 46 27.6 40.26N 29.27E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=20.4.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=24.0.
ISC VI 28 23 18 48.4–1.1 37.11N–.02 28.76E–.02 6–9 81 0-4
ISCJB VI 28 23 18 47.9–.52 37.11N–.03 28.79E–.03 6–5 ¶17556542
ATH VI 28 23 18 47.1 37.20N 28.65E 8–3 2.7L
ISK VI 28 23 18 47.5 37.08N 28.79E 11 3.1
DDA VI 28 23 18 48.6 37.11N 28.71E 7 3.0
CSEM VI 28 23 18 48.2–.15 37.11N 28.78E 8 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=165.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=164.0.
ISC VI 29 00 36 31.5–1.0 39.09N–.04 29.02E–.03 15–8 35 0-2
ISCJB VI 29 00 36 31.9–.51 39.09N–.04 28.99E–.05 20–6 ¶17556543
CSEM VI 29 00 36 31.4–.22 39.12N 28.99E 15
ISK VI 29 00 36 31.1 39.05N 29.08E 26 2.3L
DDA VI 29 00 36 32.0 39.10N 29.00E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=153.6.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.1km az=128.0.
ISC VI 29 00 52 48.0–1.1 39.18N–.03 29.02E–.03 5–11 29 0-2
CSEM VI 29 00 52 47.9–.26 39.16N 28.98E 8 ¶17556545
ISK VI 29 00 52 47.5 39.18N 28.91E 6 2.7
ISCJB VI 29 00 52 48.2–.62 39.15N–.05 28.99E–.05 8–8 2.7
DDA VI 29 00 52 48.3 39.05N 29.10E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.5km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.8km az=145.5.
ISC VI 29 00 54 58.6–.93 39.01N–.05 29.16E–.03 9 21 0-2
ISK VI 29 00 54 58.1 39.01N 29.26E 7 2.4 ¶17556546
ISCJB VI 29 00 54 59.5–.62 39.09N–.05 29.07E–.05 9 2.4
CSEM VI 29 00 54 59.6–.17 39.10N 29.08E 5 2.4
DDA VI 29 00 54 59.8 39.06N 29.07E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.2km az=146.7.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.4km az=133.0.
ISC VI 29 01 06 39.4–1.1 38.32N–.03 42.44E–.02 8–11 36 0-2
ISK VI 29 01 06 38.0 38.32N 42.44E 5 2.0L ¶17556547
ISCJB VI 29 01 06 39.4–.56 38.32N–.03 42.43E–.04 3–6 2.0L
CSEM VI 29 01 06 39.3–.15 38.33N 42.43E 8 2.0L
DDA VI 29 01 06 39.2 38.36N 42.39E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=161.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=152.0.
ISC VI 29 01 25 41.9–.97 38.53N–.02 35.96E–.02 11–9 45 0-2
ISCJB VI 29 01 25 41.7–.54 38.54N–.02 35.94E–.03 3–6 ¶17556548
DDA VI 29 01 25 41.6 38.53N 35.98E 7 2.8
ISK VI 29 01 25 41.2 38.51N 35.94E 12 2.7
CSEM VI 29 01 25 41.5–.17 38.51N 35.96E 8 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=137.6.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=133.0.
ISC VI 29 02 01 35.9–1.1 39.10N–.04 29.14E–.03 9 23 0-2
ISK VI 29 02 01 34.0 38.99N 29.36E 13 2.7 ¶17556549
ISCJB VI 29 02 01 35.8–.59 39.10N–.04 29.13E–.05 9 2.7
DDA VI 29 02 01 36.0 39.11N 29.12E 7 2.7
CSEM VI 29 02 01 36.0–.17 39.11N 29.13E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=145.9.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.2km az=131.0.
ISC VI 29 03 04 42.3–1.0 37.90N–.03 27.12E–.03 12–10 24 0-1
ISCJB VI 29 03 04 41.9–1.1 37.90N–.04 27.11E–.05 14–19 ¶17556550
DDA VI 29 03 04 42.2 37.90N 27.12E 7 2.6
CSEM VI 29 03 04 42.4–.13 37.90N 27.10E 5 2.6
ISK VI 29 03 04 42.0 37.93N 27.11E 6 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.3km az=41.5.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=51.0.
ISC VI 29 03 34 46.5–1.9 40.85N–.06 39.87E–.10 14–11 23 0-1
CSEM VI 29 03 34 46.7–.26 40.85N 39.89E 5 ¶17556551
ISK VI 29 03 34 46.3 40.87N 39.84E 13 2.2
DDA VI 29 03 34 48.0 40.84N 39.76E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=2.8km az=95.0.
DDA VI 29 04 08 02.2 39.12N 29.05E 7 2.8
¶602863641
ISC VI 29 04 34 42.8–.99 39.14N–.02 29.00E–.02 6–9 84 0-2
ISCJB VI 29 04 34 42.6–.48 39.14N–.03 28.99E–.03 2–6 ¶17556552
CSEM VI 29 04 34 42.9–.08 39.14N 29.00E 2
ISK VI 29 04 34 42.4 39.14N 29.00E 5 3.0
DDA VI 29 04 34 42.3 39.11N 29.00E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.3km az=174.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=7.0.
ISC VI 29 04 38 41.2–.96 39.11N–.03 29.00E–.02 11–9 56 0-2
DDA VI 29 04 38 40.7 39.13N 28.99E 7 2.6 ¶17556553
CSEM VI 29 04 38 41.7–.11 39.09N 29.01E 2 2.6
ISK VI 29 04 38 41.2 39.08N 29.01E 5 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=164.0.
ISC VI 29 04 46 44.9–1.0 39.13N–.02 28.99E–.02 6–11 72 0-2
ISCJB VI 29 04 46 44.7–.51 39.12N–.03 28.99E–.03 1–6 ¶17556554
ISK VI 29 04 46 44.6 39.12N 28.98E 5 2.8L
DDA VI 29 04 46 44.0 39.15N 28.99E 7 2.9
CSEM VI 29 04 46 45.0–.06 39.11N 29.00E 2 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=161.7.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=156.0.
ISC VI 29 05 00 41.8–.98 39.14N–.02 28.99E–.02 7–9 102 0-2
CSEM VI 29 05 00 41.9–.09 39.13N 28.99E 2 ¶17556555
DDA VI 29 05 00 41.2 39.13N 28.99E 7 3.1
ISK VI 29 05 00 41.3 39.13N 28.97E 5 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=168.0.
ISC VI 29 05 50 26.2–1.0 39.08N–.04 29.01E–.03 9 22 0-1
ISK VI 29 05 50 25.9 39.00N 29.21E 8 2.0L ¶17556557
DDA VI 29 05 50 25.9 39.09N 29.01E 7 2.7
ISCJB VI 29 05 50 26.5–.59 39.08N–.05 29.02E–.05 9 2.7
CSEM VI 29 05 50 26.5–.22 39.10N 29.02E 0–3 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.1km az=145.3.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=150.0.
ISC VI 29 06 02 35.5–.00 39.08N–.03 29.03E–.03 7–10 36 0-2
ISK VI 29 06 02 35.6 39.07N 29.04E 6 2.3L ¶17556558
ISCJB VI 29 06 02 36.2–.56 39.07N–.05 29.02E–.04 6–7 2.3L
DDA VI 29 06 02 36.0 39.10N 29.03E 7 2.9
CSEM VI 29 06 02 36.3–.09 39.08N 29.02E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.3km az=156.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=143.0.
ISC VI 29 06 39 10.4–1.6 37.14N–.06 42.48E–.03 2–12 33 0-2
ISN VI 29 06 39 08.3–.30 36.97N 42.58E 0 3.0L ¶17556560
CSEM VI 29 06 39 10.2–.35 37.09N 42.48E 2 3.0
ISK VI 29 06 39 11.1 37.20N 42.53E 15 3.2
DDA VI 29 06 39 31.3 37.23N 42.42E 7 3.0

ISC Event type ke.
ISN Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.7km az=7.0.
DDA Event type ke.
ISC VI 29 07 32 13.8–1.1 39.10N–.04 29.00E–.03 9 22 0-1
ISK VI 29 07 32 12.8 39.09N 29.00E 7 2.3 ¶17556563
ISCJB VI 29 07 32 13.6–.60 39.08N–.04 29.01E–.05 9 2.3
CSEM VI 29 07 32 13.6–.13 39.10N 28.99E 9–1 2.6
DDA VI 29 07 32 14.1 39.08N 28.98E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=134.0.
DDA Event type ke.
ISC VI 29 07 39 09.0–1.1 39.09N–.04 29.01E–.03 9 21 0-1
DDA VI 29 07 39 07.6 39.11N 29.00E 7 2.7 ¶17556564
ISK VI 29 07 39 07.2 38.98N 29.25E 5 2.5
ISCJB VI 29 07 39 08.1–.62 39.08N–.05 29.01E–.05 9 2.5
CSEM VI 29 07 39 08.0–.17 39.11N 29.00E 2 2.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=146.4.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.1km az=134.0.
ISC VI 29 09 06 03.2–.90 39.09N–.03 29.06E–.02 13–8 44 0-2
ISCJB VI 29 09 06 02.9–.45 39.09N–.04 29.05E–.03 6–7 ¶17556566
DDA VI 29 09 06 02.9 39.10N 29.06E 7 2.5
ISK VI 29 09 06 02.2 39.09N 29.05E 6 2.4L
CSEM VI 29 09 06 03.0–.09 39.09N 29.05E 8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=149.0.
ISC VI 29 09 39 28.3–.93 39.13N–.03 28.99E–.02 9–10 70 0-2
ISK VI 29 09 39 27.7 39.11N 28.99E 6 3.1L ¶17556570
DDA VI 29 09 39 27.6 39.11N 29.01E 3 2.8
ISCJB VI 29 09 39 28.1–.49 39.12N–.04 29.00E–.03 5–7 2.8
CSEM VI 29 09 39 28.2–.07 39.11N 29.00E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.7km az=0.1.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=6.0.
ISK VI 29 09 46 46.7 37.36N 28.06E 10 2.0L
CSEM VI 29 09 46 46.7 37.36N 28.06E 10 2.0L ¶17556572
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 29 10 21 40.1–.98 39.15N–.02 28.99E–.02 7–9 90 0-2
ISK VI 29 10 21 39.7 39.12N 28.99E 5 3.0L ¶17556574
DDA VI 29 10 21 39.6 39.15N 28.99E 7 3.2L
CSEM VI 29 10 21 40.1–.10 39.13N 29.00E 0–1 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=8.0.
ISC VI 29 11 15 49.4–1.3 37.56N–.02 36.60E–.02 1–11 42 0-3
ISK VI 29 11 15 49.0 37.56N 36.60E 5 2.5L ¶17556577
ISCJB VI 29 11 15 50.4–.56 37.56N–.03 36.58E–.04 4–6 2.5L
DDA VI 29 11 15 50.1 37.52N 36.64E 7 2.6
CSEM VI 29 11 15 50.2–.24 37.57N 36.55E 5 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=161.2.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=5.1km az=29.0.
ISC VI 29 11 18 49.3–1.1 40.52N–.04 37.31E–.03 6–9 30 0-2
ISK VI 29 11 18 47.7 40.55N 37.29E 5 2.6L ¶17556578
ISCJB VI 29 11 18 49.3–.75 40.53N–.06 37.30E–.06 6–9 2.6L
CSEM VI 29 11 18 49.2–.30 40.52N 37.31E 8 2.6L
DDA VI 29 11 18 49.0 40.53N 37.34E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=5.2km az=28.9.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=5.6km az=11.0.
ISC VI 29 11 40 48.9–1.0 39.13N–.02 29.00E–.01 4–8 3.5b 280 0-40
DDA VI 29 11 40 47.9 39.12N 29.00E 9 4.0L ¶16731778
ISCJB VI 29 11 40 48.4–.38 39.12N–.01 29.01E–.02 6–3 3.6b,2.8s
CSEM VI 29 11 40 48.8–.07 39.10N 29.02E 5 4.0L,2.8s
IDC VI 29 11 40 48.5–1.3 39.17N 29.11E 0 3.6b,3.5
ISK VI 29 11 40 48.0 39.13N 29.02E 4 4.0L,3.5
THE VI 29 11 40 49.2 39.07N 29.01E 4–2 3.8L,3.5
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=37.0.
IDC Error ellipse: s-maj=24.1km s-min=16.3km az=171.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=147.0.
ISC VI 29 11 48 58.3–1.1 39.13N–.03 28.96E–.02 15–10 33 0-1
ISK VI 29 11 48 57.7 39.13N 28.96E 5 2.5L ¶17556579
DDA VI 29 11 48 58.1 39.09N 29.00E 7 1.9
CSEM VI 29 11 48 58.3–.11 39.13N 28.96E 5 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=160.0.
ISC VI 29 11 55 53.0–.93 39.10N–.03 29.01E–.02 10–8 68 0-2
ISCJB VI 29 11 55 52.6–.51 39.10N–.03 29.01E–.03 3–6 ¶17556580
DDA VI 29 11 55 52.5 39.11N 29.03E 7 2.5
ISK VI 29 11 55 52.4 39.10N 28.99E 6 2.8L
CSEM VI 29 11 55 52.8–.07 39.09N 29.01E 3–0 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=174.8.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=4.0.
ISC VI 29 12 05 59.7–1.0 39.12N–.02 29.00E–.02 5–12 68 0-2
ISCJB VI 29 12 05 59.4–.50 39.12N–.03 28.99E–.03 1–7 ¶17556582
CSEM VI 29 12 05 59.8–.10 39.10N 28.99E 5 3.4L
ISK VI 29 12 05 59.2 39.10N 28.98E 5 3.1L
DDA VI 29 12 05 59.4 39.12N 29.00E 7 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=177.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=173.0.
ISC VI 29 12 10 41.1–1.0 39.12N–.02 29.00E–.02 4–10 121 0-2
DDA VI 29 12 10 40.6 39.11N 29.01E 7 3.5L ¶17556583
ISK VI 29 12 10 40.4 39.09N 29.00E 5 3.2L
CSEM VI 29 12 10 40.9–.08 39.10N 29.00E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=2.0km az=133.0.
ISC VI 29 13 44 45.3–1.0 37.43N–.03 28.09E–.03 18–7 32 0-1
ISK VI 29 13 44 44.9 37.44N 28.09E 17 2.0L ¶17556587
CSEM VI 29 13 44 45.4–.16 37.43N 28.09E 19–0 2.0L
DDA VI 29 13 44 45.5 37.43N 28.08E 7 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=6.0.
ISC VI 29 14 11 45.9–.95 39.08N–.03 29.05E–.03 9 24 0-1
ISCJB VI 29 14 11 45.8–.57 39.07N–.04 29.05E–.04 9 ¶17556588
DDA VI 29 14 11 45.2 39.11N 29.04E 7 2.5
CSEM VI 29 14 11 45.8–.15 39.08N 29.05E 5 2.4L
ISK VI 29 14 11 45.3 39.08N 29.04E 6 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.0km az=149.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=142.0.
DDA VI 29 15 14 00.8 39.09N 29.01E 7 2.3
¶602863675
ISC VI 29 17 04 34.6–.87 39.39N–.03 29.14E–.04 8 20 0-2
ISK VI 29 17 04 33.4 39.32N 29.11E 15 2.5 ¶17556591
ISCJB VI 29 17 04 35.0–.68 39.38N–.04 29.15E–.05 8 2.5
CSEM VI 29 17 04 35.1–.44 39.40N 29.14E 10 2.3
DDA VI 29 17 04 37.8 39.19N 29.21E 7 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=44.9.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=9.0km az=125.0.
ISC VI 29 17 30 28.7–1.0 38.58N–.04 39.61E–.03 10–11 28 0-2
ISK VI 29 17 30 27.3 38.60N 39.62E 5 2.6 ¶17556593
ISCJB VI 29 17 30 28.8–.70 38.60N–.04 39.63E–.05 3–9 2.6
CSEM VI 29 17 30 28.7–.41 38.61N 39.59E 8 2.6
DDA VI 29 17 30 28.6 38.60N 39.61E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=4.6km az=135.1.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=6.6km az=32.0.
ISC VI 29 19 30 57.4–.93 39.46N–.02 36.65E–.01 9–8 111 0-3
DDA VI 29 19 30 56.7 39.46N 36.64E 12 3.5L ¶17556596
ISK VI 29 19 30 56.2 39.44N 36.65E 5 3.4
CSEM VI 29 19 30 57.4–.12 39.44N 36.66E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=179.0.
ISC VI 29 19 40 26.4–.97 39.45N–.02 36.67E–.02 7–8 60 0-3
DDA VI 29 19 40 25.8 39.46N 36.68E 7 3.0 ¶17556597
ISK VI 29 19 40 25.1 39.45N 36.66E 5 3.2
ISCJB VI 29 19 40 26.3–.46 39.44N–.02 36.66E–.03 5–5 3.2
CSEM VI 29 19 40 26.1–.16 39.45N 36.69E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=164.2.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=144.0.
ISC VI 29 19 48 06.9–.58 37.38N–.02 35.87E–.01 17–3 4.3b,3.5s 680 0-120
ISN VI 29 19 47 50.9–.90 37.27N 35.90E 8–30 4.5L,3.5s ¶16881120
IDC VI 29 19 48 04.0–.48 37.35N 35.82E 0 4.2,4.1
MOS VI 29 19 48 04.3–1.3 37.30N 35.89E 10 4.6b,4.1
NEIC VI 29 19 48 05.6 37.41N 35.88E 6 4.5b,4.4L
ISK VI 29 19 48 05.9 37.36N 35.87E 16 4.5L,4.4L
DDA VI 29 19 48 05.6 37.39N 35.87E 26 4.4L,4.4L
ISCJB VI 29 19 48 07.0–.25 37.36N–.01 35.87E–.01 26–2 4.2b,3.5s
BJI VI 29 19 48 06.0 37.40N 35.90E 15 4.9b,4.6b
DSN VI 29 19 48 08.0–.00 37.37N 35.89E 15 4.9b,4.6b
CSEM VI 29 19 48 07.1–.09 37.38N 35.87E 15 4.5b,4.6b
NIC VI 29 19 48 07.8–.20 37.64N 35.18E 16 4.8b,4.5L
GII VI 29 19 48 08.2–.00 37.35N 35.29E 16–0 4.0b,3.7
NSSC VI 29 19 48 09.9–1.4 37.34N 36.01E 38–44 3.9L,2.1
ISC Event type ke.
ISN Error ellipse: s-maj=21.7km s-min=51.8km az=-1.0.
IDC Error ellipse: s-maj=9.5km s-min=9.0km az=38.0.
MOS Error ellipse: s-maj=5.4km s-min=3.3km az=102.5.
NEIC Event type se. After ISK.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=168.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=91.0.
GII Event type ke.
NSSC Error ellipse: s-maj=22.9km s-min=27.4km az=-1.0.
ISC VI 29 19 52 37.4–.96 39.13N–.02 28.99E–.02 8–9 92 0-2
DDA VI 29 19 52 36.9 39.14N 28.97E 7 3.1 ¶17556598
ISK VI 29 19 52 36.8 39.10N 28.99E 5 3.0L
ISCJB VI 29 19 52 37.2–.50 39.12N–.02 28.98E–.03 1–5 3.0L
CSEM VI 29 19 52 37.6–.10 39.11N 28.99E 2 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=158.1.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=124.0.
ISC VI 29 20 11 46.5–.99 39.01N–.03 35.83E–.02 7–10 39 0-1
ISCJB VI 29 20 11 46.7–.52 38.99N–.03 35.83E–.03 3–7 ¶17556599
CSEM VI 29 20 11 46.6–.19 39.00N 35.84E 2 2.7
ISK VI 29 20 11 46.0 39.00N 35.89E 5 2.7
DDA VI 29 20 11 46.3 39.02N 35.83E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=31.6.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.1km az=38.0.
ISC VI 29 20 25 53.1–1.1 39.82N–.02 29.55E–.03 6–12 40 0-2
DDA VI 29 20 25 52.3 39.86N 29.47E 7 2.6 ¶17556601
ISK VI 29 20 25 52.8 39.82N 29.59E 5 2.7
CSEM VI 29 20 25 53.7–.15 39.82N 29.57E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=78.0.
ISC VI 29 21 43 31.9–1.1 39.11N–.04 28.99E–.03 4–12 24 0-1
ISK VI 29 21 43 30.9 39.10N 28.98E 6 2.8 ¶17556603
ISCJB VI 29 21 43 31.6–.60 39.09N–.05 28.99E–.05 6–9 2.8
CSEM VI 29 21 43 31.5–.16 39.12N 28.98E 5 2.8
DDA VI 29 21 43 31.3 39.11N 28.99E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.0km az=150.6.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=129.0.
ISC VI 29 23 00 50.0–1.2 38.58N–.02 39.56E–.03 16–10 37 0-2
DDA VI 29 23 00 49.5 38.68N 39.61E 7 2.6 ¶17556604
ISK VI 29 23 00 49.7 38.57N 39.61E 11 2.9
CSEM VI 29 23 00 50.7–.28 38.57N 39.51E 17–2 2.9
ISCJB VI 29 23 00 51.0–.49 38.59N–.03 39.53E–.05 17–8 2.9
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC VI 29 23 27 49.9–1.1 39.39N–.02 33.23E–.02 2–10 181 0-9
DDA VI 29 23 27 49.4 39.40N 33.23E 3 3.6L ¶17556606
ISK VI 29 23 27 49.2 39.40N 33.22E 5 3.5L
CSEM VI 29 23 27 50.6–.10 39.39N 33.20E 2 3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=21.0.
ISC VI 30 00 32 50.9–1.3 39.11N–.04 29.04E–.03 9 18 0-1
DDA VI 30 00 32 48.5 39.15N 28.95E 33 2.7 ¶17556608
ISK VI 30 00 32 49.8 39.13N 28.99E 6 2.5
ISCJB VI 30 00 32 50.6–.69 39.10N–.06 29.04E–.05 9 2.5
CSEM VI 30 00 32 50.7–.15 39.11N 29.03E 5 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.2km az=150.6.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.3km az=146.0.
ISC VI 30 01 03 49.5–1.0 39.13N–.02 29.03E–.02 4–10 173 0-8
DDA VI 30 01 03 48.6 39.13N 29.00E 10 3.6L ¶17556609
ISK VI 30 01 03 48.8 39.14N 29.00E 5 3.4
CSEM VI 30 01 03 49.5–.10 39.13N 29.02E 2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.6km az=49.0.
ISC VI 30 01 48 41.0–.97 39.12N–.04 28.99E–.03 9 28 0-1
ISCJB VI 30 01 48 40.9–.52 39.13N–.04 28.99E–.05 9 ¶17556610
ISK VI 30 01 48 40.3 39.13N 28.99E 8 2.5
CSEM VI 30 01 48 40.8–.09 39.13N 28.98E 8 2.5
DDA VI 30 01 48 41.1 39.03N 29.00E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.9km az=143.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=133.0.
ISC VI 30 02 07 51.1–1.0 39.15N–.04 29.00E–.03 9 26 0-2
ISCJB VI 30 02 07 50.9–.55 39.13N–.04 29.01E–.05 9 ¶17556612
CSEM VI 30 02 07 50.9–.11 39.15N 28.99E 6–1 2.8
DDA VI 30 02 07 50.8 39.12N 28.99E 7 2.6
ISK VI 30 02 07 50.2 39.14N 29.00E 5 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.0km az=145.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=152.0.
ISC VI 30 02 15 13.8–.96 39.13N–.04 28.99E–.03 9 22 0-1
ISCJB VI 30 02 15 13.8–.60 39.12N–.05 28.99E–.05 9 ¶17556613
DDA VI 30 02 15 13.6 39.13N 28.99E 7 2.6
CSEM VI 30 02 15 13.9–.11 39.14N 28.98E 8 2.5
ISK VI 30 02 15 13.4 39.13N 28.99E 6 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=143.0.
ISC VI 30 04 10 23.0–.98 39.18N–.02 28.95E–.02 8–9 67 0-2
ISCJB VI 30 04 10 22.9–.45 39.19N–.03 28.92E–.03 5–6 ¶17556615
DDA VI 30 04 10 22.5 39.19N 28.92E 5 3.0L
ISK VI 30 04 10 22.5 39.18N 28.93E 6 3.0
CSEM VI 30 04 10 23.2–.09 39.17N 28.93E 8 3.0L

ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=165.7.							
CSEM	Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=161.0.							
ISC	**VI**	**30 04 46 20.6–1.1**	**39.09N–.03**	**29.06E–.03**	**9**		**24**	**0-1**
ISK	VI	30 04 46 19.9	39.07N	29.09E	6	2.6		¶17556616
ISCJB	VI	30 04 46 20.6–.57	39.09N–.04	29.05E–.05	9	2.6		
DDA	VI	30 04 46 20.6	39.11N	29.03E	7	2.6		
CSEM	VI	30 04 46 20.6–.15	39.09N	29.05E	8	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=148.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=139.0.							
ISC	**VI**	**30 05 07 45.3–1.0**	**39.11N–.04**	**29.00E–.03**	**10–10**		**26**	**0-1**
DDA	VI	30 05 07 44.8	39.12N	29.00E	7	2.6		¶17556617
ISK	VI	30 05 07 44.4	39.02N	29.17E	12	2.3L,2.1		
ISCJB	VI	30 05 07 45.2–.60	39.10N–.05	29.00E–.05	6–8	2.3L,2.1		
CSEM	VI	30 05 07 45.1–.13	39.11N	28.99E	8	2.6,2.1		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.0km s-min=4.9km az=151.1.							
CSEM	Event type ke. Error ellipse: s-maj=4.7km s-min=2.4km az=133.0.							
ISC	**VI**	**30 05 17 09.6–.93**	**38.61N–.03**	**39.57E–.03**	**16–9**		**29**	**0-2**
ISCJB	VI	30 05 17 09.9–.52	38.59N–.04	39.57E–.06	11–8			¶17556618
DDA	VI	30 05 17 09.2	38.61N	39.61E	7	3.0		
CSEM	VI	30 05 17 09.8–.45	38.62N	39.52E	10	2.7		
ISK	VI	30 05 17 09.3	38.58N	39.60E	13	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=5.8km az=35.8.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=10.2km s-min=9.4km az=79.0.							
ISC	**VI**	**30 07 27 04.7–.94**	**39.10N–.03**	**29.04E–.03**	**11–10**		**38**	**0-2**
ISCJB	VI	30 07 27 04.8–.52	39.09N–.04	29.02E–.04	5–7			¶17556620
DDA	VI	30 07 27 04.6	39.12N	29.02E	7	2.6		
ISK	VI	30 07 27 04.5	39.08N	29.06E	7	2.6L		
CSEM	VI	30 07 27 05.0–.13	39.09N	29.04E	5	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.5km s-min=4.5km az=156.8.							
CSEM	Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=137.0.							
ISC	**VI**	**30 07 30 34.3–1.1**	**38.48N–.04**	**39.58E–.04**	**20–2**		**25**	**0-1**
DDA	VI	30 07 30 33.9	38.58N	39.61E	7	2.3		¶17556621
CSEM	VI	30 07 30 33.7–.37	38.54N	39.60E	20	2.7		
ISCJB	VI	30 07 30 34.7–.60	38.49N–.07	39.56E–.07	26–8	2.7		
ISK	VI	30 07 30 34.3	38.47N	39.58E	22	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=11.5km s-min=6.4km az=44.0.							
ISCJB	Event type ke. Error ellipse: s-maj=13.3km s-min=5.5km az=34.8.							
ISC	**VI**	**30 08 12 58.0–1.1**	**39.53N–.02**	**32.34E–.02**	**11–10**		**52**	**0-2**
ISK	VI	30 08 12 56.5	39.54N	32.32E	5	2.7		¶17556622
DDA	VI	30 08 12 57.4	39.54N	32.35E	7	2.9		
CSEM	VI	30 08 12 57.8–.19	39.52N	32.32E	8	2.7		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=173.0.							
ISC	**VI**	**30 08 34 10.6–1.1**	**39.65N–.03**	**40.73E–.03**	**7–11**		**27**	**0-1**
CSEM	VI	30 08 34 10.8–.41	39.67N	40.72E	8	2.6		¶17556623
ISK	VI	30 08 34 11.5	39.69N	40.64E	8	2.6		
DDA	VI	30 08 34 11.0	39.73N	40.74E	7	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.9km s-min=7.7km az=97.0.							
DDA	Event type ke.							
ISC	**VI**	**30 09 22 44.7–1.1**	**38.53N–.03**	**28.41E–.04**	**8–9**		**28**	**0-2**
ISCJB	VI	30 09 22 44.9–.74	38.53N–.03	28.39E–.06	5–6			¶17556627
CSEM	VI	30 09 22 44.9–.27	38.51N	28.41E	10	2.6		
ISK	VI	30 09 22 44.3	38.53N	28.43E	5	2.6		
DDA	VI	30 09 22 45.7	38.48N	28.47E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=5.1km az=27.3.							
CSEM	Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=112.0.							
DDA	Event type ke.							
ISC	**VI**	**30 10 49 16.5–1.1**	**38.43N–.03**	**39.65E–.04**	**10–9**		**25**	**0-1**
DDA	VI	30 10 49 14.7	38.45N	39.77E	7	3.0		¶17556628
CSEM	VI	30 10 49 16.4–.38	38.43N	39.65E	12	2.6		
ISCJB	VI	30 10 49 17.2–.62	38.42N–.04	39.62E–.05	11–5	2.6		
ISK	VI	30 10 49 17.0	38.43N	39.54E	18	2.6		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.6km s-min=5.9km az=50.0.							
ISCJB	Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=43.6.							
ISC	**VI**	**30 12 57 00.7–1.2**	**37.23N–.04**	**38.97E–.03**	**6–10**		**34**	**0-2**
DDA	VI	30 12 56 59.4	37.17N	38.96E	7	2.8		¶17556632
CSEM	VI	30 12 57 00.4–.42	37.22N	39.02E	2	2.9		
ISK	VI	30 12 57 00.8	37.28N	38.97E	5	2.9		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.7km s-min=7.1km az=163.0.							
ISC	**VI**	**30 15 21 59.9–.89**	**39.08N–.02**	**29.08E–.02**	**16–7**		**62**	**0-2**
ISCJB	VI	30 15 22 00.4–.43	39.08N–.03	29.05E–.03	6–5			¶17556635
ISK	VI	30 15 22 00.0	39.07N	29.05E	8	2.9		
CSEM	VI	30 15 22 00.5–.08	39.07N	29.05E	7–0	3.2		
DDA	VI	30 15 22 00.1	39.10N	29.03E	7	3.2		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=162.1.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=170.0.							
DDA	Event type ke.							
ISC	**VI**	**30 16 54 51.8–.95**	**39.10N–.02**	**29.03E–.02**	**8–8**		**84**	**0-2**
ISCJB	VI	30 16 54 51.6–.43	39.10N–.02	29.03E–.02	3–4			¶17556640
DDA	VI	30 16 54 51.5	39.10N	29.01E	7	3.4		
CSEM	VI	30 16 54 51.8–.09	39.09N	29.04E	5	3.4		
ISK	VI	30 16 54 51.2	39.09N	29.04E	7	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=172.8.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=163.0.							
ISC	**VI**	**30 18 30 54.9–.88**	**39.13N–.03**	**29.02E–.02**	**14–8**		**44**	**0-2**
ISCJB	VI	30 18 30 54.7–.46	39.12N–.04	29.02E–.03	10–6			¶17556643
ISK	VI	30 18 30 54.0	39.13N	29.01E	10	2.8		
CSEM	VI	30 18 30 54.7–.09	39.13N	29.01E	10	2.7		
DDA	VI	30 18 30 54.5	39.13N	29.05E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=162.6.							
CSEM	Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=170.0.							
DDA	Event type ke.							
ISC	**VI**	**30 18 42 37.7–.93**	**38.24N–.01**	**35.16E–.01**	**9–8**		**145**	**0-3**
ISK	VI	30 18 42 36.5	38.24N	35.17E	5	3.4L		¶17556644
DDA	VI	30 18 42 37.2	38.25N	35.16E	8	3.5L		
CSEM	VI	30 18 42 38.2–.12	38.23N	35.16E	5	3.5L		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=3.0km az=87.0.							
ISC	**VI**	**30 19 06 31.0–.92**	**39.14N–.02**	**29.07E–.02**	**9–9**		**94**	**0-2**
ISK	VI	30 19 06 30.3	39.12N	29.06E	5	3.1		¶17556647
CSEM	VI	30 19 06 30.8–.08	39.13N	29.07E	5	3.1		
DDA	VI	30 19 06 30.5	39.12N	29.07E	10	3.8L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.8km az=170.0.							
DDA	Event type ke.							
ISC	**VI**	**30 21 20 17.7–.97**	**39.13N–.03**	**29.08E–.03**	**11–9**		**38**	**0-1**
ISCJB	VI	30 21 20 17.8–.47	39.13N–.04	29.09E–.04	10–6			¶17556649
CSEM	VI	30 21 20 17.8–.11	39.13N	29.09E	10	2.4		
ISK	VI	30 21 20 17.3	39.14N	29.09E	11	2.4		
DDA	VI	30 21 20 18.1	39.07N	29.12E	7	2.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.9km s-min=4.3km az=160.4.							
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=150.0.							
DDA	Event type ke.							
ISC	**VI**	**30 21 43 36.9–.94**	**37.83N–.02**	**27.36E–.02**	**7–9**		**82**	**0-2**
DDA	VI	30 21 43 36.5	37.83N	27.36E	6	3.3L		¶17556650
ISK	VI	30 21 43 36.7	37.86N	27.37E	9	3.1		
ATH	VI	30 21 43 37.8	37.88N	27.31E	8–5	2.6L		
CSEM	VI	30 21 43 37.2–.16	37.86N	27.37E	2	3.3L		
ISC	Event type ke.							
DDA	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=5.6km s-min=1.4km az=249.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=72.0.							
ISC	**VI**	**30 22 37 36.7–1.0**	**39.10N–.03**	**28.99E–.03**	**9**		**32**	**0-2**
ISK	VI	30 22 37 35.6	39.08N	29.01E	6	2.8		¶17556652
ISCJB	VI	30 22 37 36.5–.50	39.09N–.04	28.99E–.04	9	2.8		
DDA	VI	30 22 37 36.5	39.12N	28.98E	7	2.7		
CSEM	VI	30 22 37 36.5–.10	39.09N	28.98E	8	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=144.4.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=133.0.							
ISC	**VI**	**30 22 38 03.7–.92**	**39.11N–.03**	**28.97E–.03**	**9**		**32**	**0-1**
ISK	VI	30 22 38 02.9	39.11N	28.96E	9	2.8		¶17556655
ISCJB	VI	30 22 38 03.5–.48	39.11N–.04	28.98E–.04	9	2.8		
DDA	VI	30 22 38 03.9	39.09N	28.99E	7	2.8		
CSEM	VI	30 22 38 03.5–.09	39.11N	28.96E	10	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.8km s-min=3.9km az=141.4.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=118.0.							
ISC	**VI**	**30 23 12 02.4–.96**	**39.13N–.03**	**29.03E–.03**	**14–9**		**23**	**0-2**
ISK	VI	30 23 12 01.6	39.12N	29.03E	13	2.9		¶17556656
ISCJB	VI	30 23 12 02.1–.43	39.12N–.03	29.01E–.04	14–5	2.9		
DDA	VI	30 23 12 03.2	39.09N	29.01E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=151.2.							
DDA	Event type ke.							

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ISC	**I**	**04 03 29 27.1–2.4**	**40.23N–.05**	**44.9E–.10**	**9–19**		**25**	**1-3**
TIF	I	04 03 29 26.4	40.25N	44.96E	22–5			¶600243133
CSEM	I	04 03 29 27.5–.59	40.24N	45.18E	2	2.0L		
TEH	I	04 03 29 31.7	39.94N	44.88E	17	2.5L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=37.8km s-min=9.8km az=72.0.							
ISC	**I**	**04 06 25 23.3–1.8**	**40.24N–.06**	**44.88E–.06**	**1–12**		**31**	**1-3**
TIF	I	04 06 25 21.6	40.19N	44.99E	8–4			¶600243136
DDA	I	04 06 25 22.3	40.37N	45.12E	26	3.1		
CSEM	I	04 06 25 23.5–.71	40.21N	44.91E	2	3.1		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=14.6km s-min=8.0km az=141.0.							
DDA	**I**	**04 11 37 09.7**	**41.09N**	**43.85E**	**7**	**2.6**		
TIF	I	04 11 37 08.9	41.11N	43.90E	11–1	2.6		¶600243141
CSEM	I	04 11 37 09.8–.22	41.09N	43.90E	2	2.6		
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.4km s-min=3.9km az=138.0.							
ISC	**I**	**10 06 22 43.8–3.8**	**41.1N–.30**	**43.9E–.30**	**8**		**6**	**1-1**
ISCJB	I	10 06 22 43.7–3.1	41.1N–.20	43.9E–.30	8			¶600243247
TIF	I	10 06 22 44.3	41.06N	44.01E	11–4			
DDA	I	10 06 22 44.5	41.07N	43.96E	9	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=42.3km s-min=6.0km az=137.6.							
DDA	Event type ke.							
ISC	**I**	**15 03 52 29.9–.96**	**41.25N–.03**	**43.78E–.05**	**8**		**17**	**0-1**
CSEM	I	15 03 52 29.4–.25	41.26N	43.76E	8	2.7		¶600243294
TIF	I	15 03 52 29.4	41.29N	43.80E	14–1	2.7		
ISCJB	I	15 03 52 30.0–.74	41.25N–.04	43.75E–.06	8	2.7		
DDA	I	15 03 52 30.5	41.12N	43.98E	4	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=123.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.4km s-min=5.5km az=1.7.							
DDA	Event type ke.							
ISC	**I**	**15 12 42 19.4–1.1**	**41.14N–.03**	**43.89E–.02**	**6–10**		**38**	**0-1**
DDA	I	15 12 42 18.8	41.13N	43.90E	7	2.7		¶600243298
TIF	I	15 12 42 18.9	41.14N	43.93E	13–0	2.7		
CSEM	I	15 12 42 19.5–.11	41.12N	43.89E	2	1.4L		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=140.0.							
ISC	**I**	**17 00 46 18.4–1.2**	**40.91N–.04**	**44.03E–.04**	**5–12**		**30**	**0-2**
TIF	I	17 00 46 17.3	40.88N	44.08E	11–1			¶600243312
CSEM	I	17 00 46 18.3–.21	40.88N	44.04E	2	2.8		
DDA	I	17 00 46 18.1	40.92N	43.99E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.9km s-min=2.4km az=141.0.							
DDA	Event type ke.							
ISC	**I**	**18 17 08 53.1–.97**	**41.33N–.04**	**43.95E–.03**	**11–9**		**26**	**0-1**
ISCJB	I	18 17 08 52.9–.63	41.33N–.04	43.94E–.04	3–8			¶600243326
CSEM	I	18 17 08 52.9–.07	41.33N	43.94E	8	1.9L		
DDA	I	18 17 08 52.9	41.32N	43.98E	7	2.8		
TIF	I	18 17 08 52.7	41.36N	43.97E	14–0	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=162.0.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=148.0.							
DDA	Event type ke.							
ISC	**I**	**19 09 17 49.5–.36**	**41.96N–.01**	**42.66E–.01**	**10–2**	**5.3b,4.8s**	**1810**	**0-161**
BJI	I	19 09 17 45.1	42.05N	42.10E	10	5.5b,5.4s		¶15938382
TIF	I	19 09 17 47.8	41.92N	42.71E	11–0	5.5b,5.4s		
IDC	I	19 09 17 47.2–.32	41.92N	42.64E	0	4.9,4.9		
ISCJB	I	19 09 17 48.3–.29	42.033N–.01	42.608E–.01	10–1	5.2b,4.8s		
DDA	I	19 09 17 48.7	41.88N	42.70E	28	5.3L,4.8s		
ISK	I	19 09 17 49.1	41.93N	42.62E	8	5.3L,4.8s		
NEIC	I	19 09 17 49.8–.14	41.96N	42.66E	10	5.3b,5.2W		
MOS	I	19 09 17 49.7–1.1	41.94N	42.59E	24	5.4b,4.6s		
GCMT	I	19 09 17 49.8–.20	42.01N	42.65E	19–0	5.3W,4.6s		
CSEM	I	19 09 17 49.8–.06	41.97N	42.64E	10	5.3W,5.2s		
AZER	I	19 09 17 49.8–1.0	42.06N	42.68E	12–44	5.3W,5.2s		
TEH	I	19 09 17 51.0	41.98N	42.70E	15	5.0L,5.2s		
NNC	I	19 09 17 54.8–3.4	42.44N	43.32E	0	5.2b,5.2s		
ISC	Event type fe.							
IDC	Error ellipse: s-maj=6.6km s-min=5.6km az=45.0.							
ISCJB	Event type fe. Error ellipse: s-maj=1.5km s-min=1.2km az=177.8.							
DDA	Event type ke.							

NEIC Event type fe. Error ellipse: s-maj=3.3km s-min=2.0km az=160.0. Felt [II] at Tbilisi. Also felt at Batumi, Chokhatauri, Jinvali, Kutaisi, Mestia and Sukhumi. Felt at Gyumri, Armenia and at Ardahan, Artvin and Trabzon, Turkey. Moment Tensor Solution. s6 Moment tensor: Scale 10^{16}Nm; M_{rr}4.46 $M_{\theta\theta}$-8.16 $M_{\phi\phi}$3.70 $M_{r\theta}$-1.61 $M_{\theta\phi}$-0.99 $M_{\phi r}$1.49 Best double couple: NP1: ϕ_s295.00000°,δ62.00000°,λ133.00000°. NP2:ϕ_s52.00000°,δ50.00000°,λ38.00000°. Principal axes: T 5.8700,Plg52.0000°,Azm258.0000°; N 2.5500,Plg37.0000°,Azm91.0000° ; P -8.4200,Plg7.0000°,Azm356.0000° $M_0$7.50000×10^{16}

MOS Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=127.0. Felt (III-IV) at Sochi;(II) at Tbilisi. Moment Tensor Solution.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s59,c89; s106,c199; Duration: 1ϑ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.03 $M_{\theta\theta}$-1.18±.02; $M_{\phi\phi}$0.38±.02; $M_{r\theta}$-0.40±.04; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$0.40±.04; Best double couple: NP1:ϕ_s292.00000°,δ62.00000° ,λ123.00000°. NP2:ϕ_s58.00000°,δ42.00000°,λ44.00000°. Principal axes: T 1.1110,Plg59.0000°,Azm250.0000°; N 0.1530,Plg29.0000°,Azm95.0000° ; P -1.2590,Plg11.0000°,Azm359.0000° $M_0$1.18500×10^{17}

CSEM	Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=173.0.							
AZER	Error ellipse: s-maj=128.7km s-min=4.6km az=291.0.							

NNC Event type se. Error ellipse: s-maj=53.0km s-min=31.5km az=101.0.
ISC I 19 09 24 34.4–1.2 41.94N–.02 42.76E–.02 6–10 104 1-45
TIF I 19 09 24 32.5 41.92N 42.71E 13–0 ¶16358205
CSEM I 19 09 24 34.5–.22 41.94N 42.77E 2 3.9b
MOS I 19 09 24 34.0–1.7 41.95N 42.79E 1 3.9b
ISK I 19 09 24 34.8 41.94N 42.75E 14 3.3L
AZER I 19 09 24 35.1–99 41.38N 42.53E 18–92 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.0km az=98.0.
MOS Error ellipse: s-maj=8.7km s-min=5.1km az=70.5.
AZER Error ellipse: s-maj=554.9km s-min=21.7km az=276.0.
ISC I 19 09 34 57.2–1.1 41.91N–.02 42.71E–.02 1–12 67 0-23
TIF I 19 09 34 56.4 41.92N 42.72E 13–1 ¶17216306
MOS I 19 09 34 56.4–.53 41.87N 42.62E 6 4.4b
CSEM I 19 09 34 57.5–.19 41.92N 42.69E 2 3.4L
DDA I 19 09 34 59.1 41.79N 42.68E 7 3.4L
ISC Event type ke.
MOS Error ellipse: s-maj=13.0km s-min=6.4km az=67.4.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.3km az=123.0.
DDA Event type ke.
ISC I 19 09 49 33.5–1.1 41.92N–.02 42.68E–.03 7–10 84 0-2
CSEM I 19 09 49 33.6–.18 41.92N 42.68E 2 2.8 ¶17216307
TIF I 19 09 49 33.0 41.95N 42.67E 17–0 2.8
MOS I 19 09 49 34.7–.89 41.90N 42.75E 11 4.0b
DDA I 19 09 49 41.0 41.35N 42.62E 8 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=2.5km az=120.0.
MOS Error ellipse: s-maj=13.1km s-min=6.5km az=66.7.
DDA Event type ke.
ISC I 19 09 51 11.7–.65 41.94N–.01 42.69E–.01 9–4 4.0b 333 0-75
TIF I 19 09 51 10.2 41.94N 42.69E 16–0 4.0b ¶15938383
IDC I 19 09 51 10.2–.59 41.99N 42.56E 0 4.0,3.9
MOS I 19 09 51 10.4–1.1 41.88N 42.53E 10 4.1b,3.9
ISCJB I 19 09 51 11.1–.47 41.97N–.01 42.60E–.02 4–3 3.9b,3.9
DDA I 19 09 51 11.1 41.87N 42.72E 30 4.5L,3.9
ISK I 19 09 51 11.4 41.92N 42.79E 7 4.1L,3.9
NEIC I 19 09 51 12.3–.46 42.04N 42.59E 10 4.1b,3.9
CSEM I 19 09 51 12.5–.12 41.94N 42.66E 10 4.0b,3.9
TEH I 19 09 51 15.0 41.93N 42.41E 15 4.2L,3.9
AZER I 19 09 51 15.5–.05 41.60N 42.88E 12–74 4.2L,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=9.7km s-min=8.5km az=127.0.
MOS Error ellipse: s-maj=5.7km s-min=4.0km az=80.1.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=148.6.
DDA Event type ke.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=6.3km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.2km az=140.0.
AZER Error ellipse: s-maj=131.7km s-min=19.7km az=292.0.
ISC I 19 09 58 15.3–.99 41.92N–.02 42.68E–.02 12–9 118 0-3
DDA I 19 09 58 15.9 41.81N 42.72E 7 2.9 ¶16358207
ISK I 19 09 58 15.4 41.88N 42.64E 6 3.0
MOS I 19 09 58 15.2–1.3 41.88N 42.62E 14 4.0b
CSEM I 19 09 58 15.6–.21 41.92N 42.71E 10 2.9
TIF I 19 09 59 10.1 41.90N 42.75E 16–1 2.9
ISC Event type ke.
DDA Event type ke.
MOS Error ellipse: s-maj=13.0km s-min=6.5km az=65.5.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.5km az=115.0.
ISC I 19 10 02 53.6–1.1 41.93N–.01 42.69E–.01 0–8 3.4b 187 0-46
IDC I 19 10 02 52.7–1.1 41.99N 42.52E 0 3.5,3.4 ¶16151836
AZER I 19 10 02 52.1–.25 41.31N 42.57E 2 3.5,3.4
TIF I 19 10 02 53.2 41.96N 42.69E 23–0 3.5,3.4
DDA I 19 10 02 53.2 41.92N 42.70E 17 3.5,3.4
MOS I 19 10 02 54.6–1.1 41.86N 42.59E 20 3.8b,3.4
ISK I 19 10 02 54.0 41.92N 42.70E 10 3.2L,3.4
CSEM I 19 10 02 55.3–.14 41.90N 42.64E 10 3.5,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=19.7km s-min=8.7km az=76.0.
AZER Error ellipse: s-maj=22.5km s-min=13.7km az=357.0.
DDA Event type ke.
MOS Error ellipse: s-maj=7.8km s-min=5.0km az=78.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=114.0.
ISC I 19 15 04 46.7–1.7 41.95N–.03 42.69E–.04 14–14 26 0-1
ISCJB I 19 15 04 47.8–.59 41.94N–.03 42.71E–.06 23–10 ¶600243377
CSEM I 19 15 04 47.0–.13 41.94N 42.70E 15 2.5
TIF I 19 15 04 47.5 42.00N 42.78E 29–4 2.5
DDA I 19 15 04 55.2 41.63N 42.64E 20 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.1km az=13.5.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=96.0.
DDA Event type ke.
ISC I 19 21 45 12.8–1.6 41.92N–.03 42.72E–.05 16–13 30 0-1
TIF I 19 21 45 12.5 41.97N 42.69E 18–3 ¶600243381
ISCJB I 19 21 45 13.4–.69 41.91N–.04 42.77E–.07 25–12
CSEM I 19 21 45 13.1–.21 41.90N 42.77E 20 2.6
DDA I 19 21 45 13.6 41.91N 42.60E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.6km az=24.7.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.3km az=114.0.
DDA Event type ke.
ISC I 19 22 53 34.5–1.2 41.90N–.03 42.71E–.03 7–11 34 0-1
CSEM I 19 22 53 34.9–.11 41.92N 42.71E 15 2.9 ¶600243383
TIF I 19 22 53 34.7 41.94N 42.72E 26–4 2.9
ISCJB I 19 22 53 35.1–1.1 41.93N–.04 42.70E–.06 11–8 2.9
DDA I 19 22 53 37.8 41.78N 42.62E 11 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.8km az=40.5.
DDA Event type ke.
ISC I 19 23 28 58.2–.98 41.92N–.01 42.71E–.02 13–9 180 0-7
CSEM I 19 23 28 58.6–.14 41.92N 42.64E 5 3.4 ¶16358235
DDA I 19 23 28 58.1 41.87N 42.72E 8 3.4
TIF I 19 23 28 58.4 41.96N 42.77E 15–1 3.4
AZER I 19 23 28 58.1–.11 41.94N 42.90E 6–3 3.4
ISK I 19 23 28 58.3 41.93N 42.67E 12 3.1L
ISCJB I 19 23 28 59.8–.44 41.94N–.02 42.56E–.02 18–5 3.1L
MOS I 19 23 28 59.1–1.2 41.86N 42.49E 27 4.3b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=115.0.
DDA Event type ke.
AZER Error ellipse: s-maj=9.6km s-min=3.9km az=19.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=144.1.
MOS Error ellipse: s-maj=7.4km s-min=5.4km az=65.4.
ISC I 20 04 05 01.2–1.2 41.90N–.04 42.73E–.05 8–11 28 0-1
CSEM I 20 04 05 01.5–.15 41.93N 42.68E 10 2.8 ¶600243393
TIF I 20 04 05 01.0 41.90N 42.75E 16–1 2.8
ISCJB I 20 04 05 02.2–.69 41.89N–.04 42.81E–.08 23–8 2.8
DDA I 20 04 05 02.6 41.89N 42.61E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.4km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=4.8km az=25.5.
DDA Event type ke.
ISC I 20 04 20 32.6–1.1 41.10N–.03 43.85E–.03 5–10 40 0-2
CSEM I 20 04 20 32.1–.13 41.10N 43.87E 2 3.0 ¶600243394
DDA I 20 04 20 32.3 41.11N 43.79E 7 3.0
TIF I 20 04 20 32.3 41.16N 43.90E 17–1 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=170.0.
DDA Event type ke.
ISC I 20 05 44 10.2–.98 41.94N–.01 42.68E–.02 10–8 156 0-53
CSEM I 20 05 44 09.8–.13 41.93N 42.69E 2 3.5 ¶16358245
TIF I 20 05 44 10.0 41.96N 42.75E 17–1 3.5
ISK I 20 05 44 10.1 41.95N 42.57E 14 3.0L
MOS I 20 05 44 11.7–2.6 41.92N 42.88E 10 4.4b
DDA I 20 05 44 11.2 41.85N 42.74E 25 3.5
NSSP I 20 05 44 11.4 41.82N 42.73E 10 2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=122.0.
MOS Error ellipse: s-maj=8.8km s-min=5.0km az=72.4.
DDA Event type ke.
ISC I 20 07 15 53.1–1.1 41.93N–.01 42.72E–.02 3–9 134 0-43
TIF I 20 07 15 51.9 41.93N 42.70E 16–1 ¶16358246
MOS I 20 07 15 53.4–.74 41.92N 42.68E 11 4.3b
CSEM I 20 07 15 53.1–.13 41.92N 42.72E 2 3.4
DDA I 20 07 15 53.6 41.86N 42.67E 28 3.4
ISK I 20 07 15 53.6 41.94N 42.73E 9 3.1,2.9L
ISC Event type ke.
MOS Error ellipse: s-maj=9.4km s-min=5.7km az=70.5.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=118.0.
DDA Event type ke.
ISC I 20 16 31 38.8–1.0 41.10N–.03 43.86E–.02 8–10 44 0-2
CSEM I 20 16 31 38.9–.14 41.08N 43.86E 2 1.7L ¶600243397
DDA I 20 16 31 38.4 41.12N 43.82E 7 2.9
TIF I 20 16 31 38.5 41.12N 43.89E 13–2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=147.0.
DDA Event type ke.
ISC I 21 05 23 00.8–1.3 41.95N–.05 42.72E–.05 35 16 1-1
CSEM I 21 05 22 59.6–.18 41.97N 42.66E 10 2.7 ¶600243403
ISCJB I 21 05 23 00.7–.82 41.96N–.06 42.70E–.09 33 2.7
DDA I 21 05 23 00.4 41.94N 41.28E 7 2.7
TIF I 21 05 23 01.4 41.99N 42.86E 28–1 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.9km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.8km az=135.2.
DDA Event type ke.
ISC I 23 03 51 23.1–.78 41.95N–.01 42.67E–.01 10–5 3.9b 358 0-74
AZER I 23 03 51 20.9–.11 41.80N 42.40E 3 3.9b ¶15968957
DDA I 23 03 51 21.6 41.97N 42.68E 8 4.2L
MOS I 23 03 51 21.6–1.2 41.87N 42.50E 10 4.1b
CSEM I 23 03 51 22.6–.10 41.94N 42.62E 2 4.0b
IDC I 23 03 51 22.3–.54 41.98N 42.52E 0 3.9,3.8
TIF I 23 03 51 22.9 41.97N 42.74E 18–1 3.9,3.8
NEIC I 23 03 51 23.1–.40 41.95N 42.65E 10 4.0b,3.8
ISK I 23 03 51 23.1 42.01N 42.61E 23 3.7L,3.8
ISCJB I 23 03 51 24.4–.38 41.98N–.01 42.49E–.02 21–3 3.8b,3.8
NSSP I 23 03 51 24.8 41.82N 42.73E 10 3.9L,3.8
NNC I 23 03 51 38.3–4.2 42.98N 43.71E 0 3.6b,3.8
ISC Event type ke.
AZER Error ellipse: s-maj=8.7km s-min=3.1km az=27.0.
DDA Event type ke.
MOS Error ellipse: s-maj=5.4km s-min=4.1km az=82.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=132.0.
IDC Error ellipse: s-maj=9.4km s-min=8.3km az=39.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=5.9km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=162.5.
NNC Event type se. Error ellipse: s-maj=63.1km s-min=36.4km az=111.0.
ISC I 24 10 22 48.4–1.2 41.92N–.03 42.69E–.03 10–14 32 1-2
TIF I 24 10 22 47.6 41.91N 42.69E 12–3 ¶600243429
ISCJB I 24 10 22 48.1–.61 41.93N–.03 42.66E–.04 1–7
CSEM I 24 10 22 48.6–.17 41.92N 42.66E 2 1.8L
DDA I 24 10 22 49.7 41.72N 42.82E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=139.6.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=133.0.
DDA Event type ke.
ISC I 27 14 41 00.3–.98 41.29N–.03 43.92E–.02 10–10 34 0-2
TIF I 27 14 40 59.5 41.28N 43.97E 16–1 ¶600243454
DDA I 27 14 40 59.5 41.30N 43.91E 7 2.8
ISCJB I 27 14 41 00.0–.62 41.28N–.03 43.92E–.03 1–7 2.8
CSEM I 27 14 41 00.3–.09 41.28N 43.92E 2 2.0L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=150.8.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=146.0.
DDA I 29 06 30 39.6 40.65N 44.63E 29 2.8
CSEM I 29 06 30 39.6 40.65N 44.63E 29 2.8 ¶601609232
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 29 13 34 55.3–.99 41.16N–.03 43.99E–.02 12–10 39 0-2
ISCJB I 29 13 34 55.0–.59 41.16N–.03 43.99E–.04 1–6 ¶600243464
TIF I 29 13 34 54.8 41.17N 44.02E 16–1
DDA I 29 13 34 54.6 41.17N 43.98E 7 2.9
CSEM I 29 13 34 55.2–.16 41.15N 43.99E 2 1.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.6km az=146.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=153.0.
ISC II 01 14 10 45.5–1.4 41.03N–.05 43.91E–.07 16–11 20 0-2
DDA II 01 14 10 43.9 41.06N 44.11E 16 2.7 ¶600243472
CSEM II 01 14 10 45.3–.35 41.01N 43.97E 8 2.7
TIF II 01 14 10 46.3 41.07N 43.95E 23–1 2.7
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=2.0km az=88.0.
ISC II 04 12 39 48.4–1.0 41.50N–.05 43.54E–.03 14–5 30 0-1
CSEM II 04 12 39 48.6–.23 41.50N 43.51E 8 2.7 ¶600243516
TIF II 04 12 39 48.5 41.47N 43.53E 17–0 2.7
ISCJB II 04 12 39 49.1–.91 41.50N–.05 43.51E–.04 10–5 2.7
DDA II 04 12 39 49.3 41.46N 43.41E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=172.0.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.3km az=174.8.
DDA Event type ke.
ISC II 04 23 00 00.1–.95 41.56N–.02 43.97E–.02 10–8 121 0-14
DDA II 04 22 59 59.2 41.60N 43.92E 7 2.8 ¶16006247
TIF II 04 22 59 59.4 41.55N 44.00E 16–0 2.8
MOS II 04 22 59 59.2–1.4 41.48N 43.91E 8 3.9b
CSEM II 04 23 00 00.2–.16 41.55N 43.98E 2 3.9b
ISK II 04 23 00 00.4 41.39N 44.17E 5 2.8
ISC Event type ke.
DDA Event type ke.
MOS Error ellipse: s-maj=12.4km s-min=4.9km az=90.3.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=106.0.
ISC II 06 21 55 51.0–1.1 41.52N–.02 42.49E–.02 1–9 132 1-26
TIF II 06 21 55 49.7 41.56N 42.44E 13–1 ¶16494282
DDA II 06 21 55 50.2 41.54N 42.46E 10 3.2
ISK II 06 21 55 50.2 41.64N 42.47E 5 3.2,3.1L
CSEM II 06 21 55 51.6–.16 41.51N 42.48E 2 3.2,3.1L
NSSP II 06 21 55 53.8 41.48N 42.47E 10 2.8L,3.1L
MOS II 06 21 55 53.3–1.9 41.51N 42.60E 12 4.0b,3.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.0km az=142.0.
MOS Error ellipse: s-maj=12.1km s-min=5.3km az=68.5.
ISC II 07 06 57 37.7–3.6 41.6N–.30 42.41E–.09 14–15 18 1-1
CSEM II 07 06 57 37.7–.30 41.64N 42.41E 2 2.7 ¶600243522
TIF II 07 06 57 38.7 41.55N 42.44E 23–1 2.7
DDA II 07 06 57 42.2 41.49N 42.35E 10 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=1.5km az=160.0.
DDA Event type ke.

ISC II 08 03 36 37.4–1.1 41.51N–.04 42.47E–.03 14–13 22 1-1
ISCJB II 08 03 36 36.8–.90 41.52N–.04 42.46E–.05 3–11 ¶600243526
CSEM II 08 03 36 37.3–.13 41.50N 42.47E 15 2.6
TIF II 08 03 36 37.8 41.61N 42.53E 15–2 2.6
DDA II 08 03 36 39.0 41.41N 42.50E 22 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.8km az=168.4.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=141.0.
DDA Event type ke.
ISC II 15 12 57 11.6–1.1 41.94N–.01 42.64E–.02 3–9 3.6b 198 1-46
AZER II 15 12 57 08.3–.03 41.65N 42.34E 5 3.6b ¶16398270
CSEM II 15 12 57 11.9–.14 41.94N 42.62E 2 3.6b
TIF II 15 12 57 12.0 41.97N 42.73E 16–0 3.6b
IDC II 15 12 57 11.3–1.1 41.99N 42.53E 0 3.6,3.5
MOS II 15 12 57 11.9–.97 41.89N 42.53E 17 3.6b,3.5
ISK II 15 12 57 11.5 41.87N 42.58E 5 3.4L,3.5
ISCJB II 15 12 57 13.2–.44 41.93N–.02 42.62E–.02 18–4 3.5b,3.5
DDA II 15 12 57 13.1 41.99N 42.69E 11 3.3,3.5
NSSP II 15 12 57 16.2 41.87N 42.77E 10 3.1s,3.5
ISC Event type ke.
AZER Error ellipse: s-maj=31.5km s-min=19.3km az=13.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=127.0.
IDC Error ellipse: s-maj=21.3km s-min=9.7km az=72.0.
MOS Error ellipse: s-maj=7.9km s-min=5.0km az=73.6.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=35.6.
DDA Event type ke.
ISC II 17 01 57 59.5–1.2 41.21N–.03 43.95E–.03 8–11 32 0-2
CSEM II 17 01 57 59.8–.18 41.22N 43.94E 2 1.4L ¶600243540
DDA II 17 01 57 59.4 41.24N 43.90E 7 3.1
TIF II 17 01 57 59.3 41.24N 43.98E 14–1 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.1km az=140.0.
DDA Event type ke.
ISC II 18 20 00 22.8–.93 40.18N–.02 44.42E–.02 10–8 84 0-3
DDA II 18 20 00 21.8 40.14N 44.44E 4 3.1 ¶16032240
NSSP II 18 20 00 21.3 40.17N 44.37E 3 2.7s
TIF II 18 20 00 22.4 40.17N 44.39E 14–1 2.7s
ISK II 18 20 00 22.8 40.26N 44.36E 5 3.2
CSEM II 18 20 00 23.0–.25 40.18N 44.40E 2 2.7L
TEH II 18 20 00 30.0 39.41N 44.07E 18 2.7L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=5.2km az=41.0.
ISC II 21 22 20 25.6–1.1 41.33N–.01 43.92E–.01 3–9 196 0-26
NSSP II 21 22 20 23.9 41.35N 43.85E 11 3.1s ¶17316244
AZER II 21 22 20 24.9–.15 40.96N 44.03E 2 3.1s
DDA II 21 22 20 25.6 41.38N 43.85E 4 3.2
TIF II 21 22 20 25.4 41.34N 43.88E 16–0 3.2
MOS II 21 22 20 26.7–1.4 41.28N 43.88E 9 4.2b
CSEM II 21 22 20 27.0–.15 41.33N 43.88E 2 0.6L
ISC Event type ke.
AZER Error ellipse: s-maj=9.5km s-min=4.1km az=350.0.
DDA Event type ke.
MOS Error ellipse: s-maj=10.3km s-min=4.8km az=80.1.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.4km az=124.0.
ISC II 22 01 24 36.6–1.1 41.36N–.02 43.86E–.02 5–9 123 0-15
DDA II 22 01 24 35.9 41.39N 43.81E 7 3.0 ¶16494718
TIF II 22 01 24 35.9 41.37N 43.88E 15–0 3.0
MOS II 22 01 24 36.7–1.4 41.30N 43.78E 10 3.8b
ISK II 22 01 24 36.8 41.22N 44.03E 5 3.1
CSEM II 22 01 24 37.0–.18 41.36N 43.84E 2 3.0L
ISC Event type ke.
DDA Event type ke.
MOS Error ellipse: s-maj=11.7km s-min=5.2km az=82.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=119.0.
TIF II 22 02 10 21.9 41.40N 43.90E 14–1
¶600243557
ISC II 22 04 17 19.8–1.0 41.36N–.03 43.85E–.02 10–8 38 0-2
TIF II 22 04 17 18.9 41.39N 43.89E 15–1 ¶600243560
ISCJB II 22 04 17 19.9–.70 41.36N–.03 43.85E–.04 4–6
CSEM II 22 04 17 19.6–.18 41.37N 43.86E 2 1.2L
DDA II 22 04 17 19.4 41.36N 43.85E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=156.8.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=143.0.
DDA Event type ke.
ISC II 22 05 05 42.8–.90 41.30N–.03 43.62E–.02 12–7 34 0-2
DDA II 22 05 05 41.9 41.34N 43.60E 7 2.9 ¶600243561
ISCJB II 22 05 05 42.9–.73 41.29N–.03 43.63E–.04 6–6 2.9
CSEM II 22 05 05 42.7–.09 41.29N 43.62E 5 1.8L
TIF II 22 05 05 42.2 41.30N 43.67E 15–0 1.8L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.5km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=140.0.
ISC II 24 06 14 03.2–.89 41.39N–.03 43.85E–.02 14–7 54 0-2
DDA II 24 06 14 02.4 41.40N 43.82E 7 2.9 ¶600243576
TIF II 24 06 14 02.8 41.40N 43.89E 13–1 2.9
ISCJB II 24 06 14 03.1–.58 41.36N–.03 43.86E–.03 2–6 2.9
CSEM II 24 06 14 03.2–.14 41.36N 43.85E 2 2.0L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.3km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=154.0.
ISC II 24 09 12 53.5–.97 41.39N–.04 43.87E–.02 10–8 38 0-2
DDA II 24 09 12 52.7 41.40N 43.83E 7 2.6 ¶600243577
TIF II 24 09 12 52.9 41.40N 43.89E 13–1 2.6
ISCJB II 24 09 12 53.2–.71 41.37N–.04 43.87E–.03 1–7 2.6
CSEM II 24 09 12 53.5–.13 41.37N 43.87E 2 2.5L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.8km az=169.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.1km az=164.0.
ISC II 27 09 21 57.3–.87 41.38N–.04 43.66E–.02 13–6 37 0-2
DDA II 27 09 21 56.1 41.42N 43.64E 7 3.1 ¶600243594
ISCJB II 27 09 21 57.6–.78 41.39N–.03 43.67E–.04 9–6 3.1
CSEM II 27 09 21 57.1–.16 41.39N 43.66E 5 2.9L
TIF II 27 09 21 57.0 41.42N 43.71E 10–1 2.9L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=154.4.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=143.0.
ISC II 27 17 36 51.8–.80 41.08N–.01 43.82E–.01 8–6 219 0-26
NSSP II 27 17 36 49.9 41.07N 43.85E 7 3.0s ¶16160496
DDA II 27 17 36 50.7 41.10N 43.79E 7 3.2
TIF II 27 17 36 50.8 41.08N 43.85E 10–1 3.2
MOS II 27 17 36 50.6–.99 40.90N 43.64E 10 4.0b
ISK II 27 17 36 51.5 41.07N 43.84E 6 3.0
AZER II 27 17 36 51.0–.75 41.16N 44.03E 2 3.0
CSEM II 27 17 36 52.6–.16 41.04N 43.80E 2 3.0L
ISC Event type ke.
DDA Event type ke.
MOS Error ellipse: s-maj=10.8km s-min=4.9km az=81.5.
AZER Error ellipse: s-maj=2.0km s-min=1.4km az=335.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=159.0.
ISC II 27 19 16 37.3–1.2 41.41N–.06 43.65E–.06 14–10 17 0-1
ISCJB II 27 19 16 38.0–1.8 41.38N–.06 43.7E–.10 6–25 ¶600243597
CSEM II 27 19 16 37.4–.20 41.41N 43.64E 8 2.6
TIF II 27 19 16 37.1 41.43N 43.71E 7–1 2.6
DDA II 27 19 16 42.2 40.99N 44.08E 18 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=7.8km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.4km az=129.0.
DDA Event type ke.
ISC III 13 22 27 53.4–1.1 41.19N–.03 43.91E–.03 6–10 33 0-2
CSEM III 13 22 27 53.4–.17 41.19N 43.91E 2 2.7 ¶600777063
TIF III 13 22 27 53.4 41.24N 43.94E 15–0 2.7
DDA III 13 22 27 59.5 40.76N 43.41E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=156.0.
TIF III 16 21 46 41.8 41.32N 43.95E 15–0
CSEM III 16 21 46 41.9 41.32N 43.95E 0 1.2L ¶600777092
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 17 21 13 46.8–1.3 40.10N–.03 43.43E–.05 7–10 34 1-2
ISK III 17 21 13 46.0 40.11N 43.40E 5 2.6 ¶16495389
CSEM III 17 21 13 47.3–.29 40.10N 43.40E 5 2.8
ISCJB III 17 21 13 47.4–.70 40.10N–.03 43.42E–.06 8–7 2.8
DDA III 17 21 13 48.8 40.19N 43.29E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=87.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.9km az=174.8.
ISC IV 03 05 10 25.1–1.0 41.21N–.03 43.82E–.02 9–10 35 0-2
TIF IV 03 05 10 24.5 41.23N 43.85E 14–1 ¶600777183
CSEM IV 03 05 10 25.4–.13 41.22N 43.82E 2 2.3L
DDA IV 03 05 10 29.8 41.05N 43.43E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.1km az=166.0.
ISC IV 14 01 33 13.7–1.0 41.18N–.03 43.72E–.02 10–8 42 0-2
TIF IV 14 01 33 12.7 41.19N 43.78E 10–3 ¶600777225
ISCJB IV 14 01 33 13.4–.72 41.18N–.03 43.72E–.03 1–6
CSEM IV 14 01 33 13.4–.15 41.18N 43.72E 2 1.9L
DDA IV 14 01 33 13.9 41.16N 43.66E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=161.5.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=160.0.
ISC IV 14 17 12 39.1–1.9 41.79N–.03 42.13E–.04 11–16 26 1-1
TIF IV 14 17 12 39.7 41.83N 42.15E 17–2 ¶600777228
CSEM IV 14 17 12 39.5–.15 41.80N 42.12E 10 2.6
ISCJB IV 14 17 12 40.1–.67 41.78N–.04 42.11E–.07 27–18 2.6
DDA IV 14 17 12 42.0 41.64N 42.16E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.4km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.1km az=25.9.
ISC IV 17 22 53 48.9–1.1 41.12N–.03 43.87E–.02 5–10 51 0-2
CSEM IV 17 22 53 48.9–.16 41.12N 43.86E 0–2 2.2L ¶600777237
TIF IV 17 22 53 48.0 41.12N 43.90E 13–0 2.2L
DDA IV 17 22 53 49.5 41.10N 43.78E 7 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=145.0.
ISC IV 18 00 36 07.8–1.1 41.06N–.03 43.81E–.02 6–9 52 0-2
TIF IV 18 00 36 07.5 41.08N 43.85E 12–1 ¶600777238
CSEM IV 18 00 36 08.1–.14 41.07N 43.81E 2 2.9
DDA IV 18 00 36 10.2 41.05N 43.63E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=154.0.
ISC IV 22 22 36 22.6–1.1 41.26N–.05 43.95E–.02 8–10 37 0-2
TIF IV 22 22 36 21.8 41.27N 43.96E 12–1 ¶600777253
CSEM IV 22 22 36 22.7–.19 41.25N 43.94E 2 1.8L
DDA IV 22 22 36 27.6 41.05N 43.56E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.7km az=163.0.
ISC IV 23 01 05 33.0–2.0 41.54N–.03 42.00E–.03 6–16 34 0-3
DDA IV 23 01 05 32.2 41.68N 41.92E 7 2.5 ¶600777254
TIF IV 23 01 05 33.2 41.56N 41.99E 15–1 2.5
ISCJB IV 23 01 05 34.3–.69 41.58N–.04 41.98E–.05 5–7 2.5
CSEM IV 23 01 05 34.1–.22 41.57N 41.98E 2 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.9km az=44.1.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.5km az=128.0.
ISC IV 24 14 28 25.3–1.0 41.21N–.03 42.01E–.04 5–9 31 0-2
ISK IV 24 14 28 24.9 41.34N 41.96E 11 2.9 ¶16649296
ISCJB IV 24 14 28 25.7–.60 41.21N–.04 42.00E–.05 3–6 2.9
DDA IV 24 14 28 25.1 41.21N 42.00E 6 2.8L
CSEM IV 24 14 28 25.4–.14 41.19N 42.01E 2 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.9km az=41.5.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.7km az=132.0.
ISC IV 25 01 15 26.9–1.2 41.33N–.04 43.88E–.03 10–11 34 0-2
TIF IV 25 01 15 26.0 41.34N 43.94E 10–1 ¶600777266
CSEM IV 25 01 15 27.3–.26 41.34N 43.87E 2 1.9L
DDA IV 25 01 15 31.9 41.20N 43.54E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.4km az=166.0.
ISC IV 29 23 00 48.2–1.2 41.22N–.03 43.87E–.03 3–11 26 0-2
DDA IV 29 23 00 45.6 41.28N 44.02E 10 2.8 ¶600777948
TIF IV 29 23 00 46.9 41.20N 43.88E 11–1 2.8
CSEM IV 29 23 00 48.2–.23 41.20N 43.83E 2 1.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.2km az=150.0.
ISC V 01 19 00 53.4–1.3 41.38N–.05 43.89E–.02 0–13 40 0-2
TIF V 01 19 00 53.5 41.35N 43.97E 10–1 ¶601269833
ISCJB V 01 19 00 54.0–.59 41.32N–.04 43.93E–.04 4–6
CSEM V 01 19 00 54.1–.20 41.33N 43.92E 2 1.8L
DDA V 01 19 00 54.9 41.32N 43.79E 7 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.6km az=146.6.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=154.0.
ISC V 01 19 32 38.3–1.0 41.09N–.03 43.59E–.03 9–9 31 0-2
TIF V 01 19 32 37.5 41.08N 43.67E 11–2 ¶601269834
ISCJB V 01 19 32 38.3–.87 41.08N–.03 43.59E–.04 1–8
CSEM V 01 19 32 38.2–.10 41.09N 43.59E 5 2.9
DDA V 01 19 32 42.1 40.76N 43.31E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=145.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=160.0.
ISC V 02 00 37 49.5–1.1 41.70N–.03 43.46E–.02 9–11 36 0-2
TIF V 02 00 37 49.4 41.75N 43.49E 12–2 ¶601269835
ISCJB V 02 00 37 50.4–.81 41.72N–.03 43.45E–.03 8–6
CSEM V 02 00 37 50.1–.22 41.73N 43.45E 8 2.0L
DDA V 02 00 37 50.9 41.63N 43.41E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=157.2.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=148.0.
TIF V 02 05 36 09.8 41.47N 43.75E 7–3
CSEM V 02 05 36 09.5–.95 41.31N 43.60E 15 1.5L ¶601269838
CSEM Event type ke. Error ellipse: s-maj=51.6km s-min=15.3km az=176.0.
ISC V 03 07 41 15.4–1.1 41.08N–.03 43.87E–.02 13–9 46 0-2
CSEM V 03 07 41 14.5–.29 41.00N 43.89E 2 2.7L ¶601269853
TIF V 03 07 41 14.5 41.07N 43.90E 10–1 2.7L
DDA V 03 07 41 15.1 41.86N 43.64E 7 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.5km az=155.0.
ISC V 08 22 10 49.2–1.0 41.14N–.04 43.86E–.03 12–8 41 0-2
CSEM V 08 22 10 49.5–.25 41.17N 43.85E 5 1.8L ¶601269865
TIF V 08 22 10 49.2 41.21N 43.89E 17–0 1.8L
ISCJB V 08 22 10 50.1–.77 41.19N–.04 43.86E–.04 6–7 1.8L
DDA V 08 22 10 54.5 41.01N 43.48E 7 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=3.8km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=156.4.
ISC V 09 08 19 04.0–1.0 41.46N–.03 43.98E–.03 6–9 46 0-2
TIF V 09 08 19 02.9 41.44N 44.02E 8–1 ¶601269868

CSEM V 09 08 19 04.0–.19 41.45N 43.98E 2 2.7L
DDA V 09 08 19 05.1 41.40N 43.85E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.8km az=142.0.
DDA Event type ke.
ISC V 10 00 46 08.4–.87 41.22N–.02 43.78E–.02 11–6 74 0-2
DDA V 10 00 46 07.3 41.23N 43.76E 7 3.2 **¶16853442**
TIF V 10 00 46 07.2 41.20N 43.79E 13–1 3.2
ISCJB V 10 00 46 08.3–.46 41.22N–.02 43.78E–.02 5–4 3.2
CSEM V 10 00 46 08.3–.10 41.23N 43.77E 5 2.7L
ISK V 10 00 46 08.4 41.15N 43.87E 9 3.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.7km az=150.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.6km az=146.0.
DDA V 10 08 58 01.2 41.09N 41.80E 7 2.0
¶602861612
ISC V 13 22 38 41.7–1.0 40.43N–.02 43.30E–.01 8–9 163 0-5
NSSP V 13 22 38 38.6 40.25N 43.32E 5 3.3s **¶16853537**
TIF V 13 22 38 39.1 40.35N 43.23E 19–0 3.3s
DDA V 13 22 38 39.7 40.41N 43.33E 6 3.5
ISK V 13 22 38 40.5 40.43N 43.30E 6 3.5
AZER V 13 22 38 40.7–.00 40.46N 43.42E 20–0 3.5
CSEM V 13 22 38 40.7–.16 40.42N 43.35E 2 3.5
ISC Event type ke.
AZER Error ellipse: s-maj=8.4km s-min=3.7km az=352.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=179.0.
ISC V 14 12 38 25.7–.92 41.37N–.01 43.85E–.01 8–7 3.5b 194 0-41
MOS V 14 12 38 22.8–1.3 41.17N 43.77E 4 4.1b **¶16853557**
TIF V 14 12 38 24.8 41.40N 43.88E 14–0 4.1b
DDA V 14 12 38 24.9 41.39N 43.85E 7 3.2
NSSP V 14 12 38 24.5 41.37N 43.92E 10 3.4s
ISK V 14 12 38 25.3 41.15N 44.10E 5 3.3
CSEM V 14 12 38 25.7–.13 41.37N 43.85E 2 3.5L
AZER V 14 12 38 25.3–.11 41.13N 44.15E 2 3.5L
ISC Event type ke.
MOS Error ellipse: s-maj=9.7km s-min=5.3km az=85.3.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=4.0.
AZER Error ellipse: s-maj=4.5km s-min=1.3km az=28.0.
ISC V 15 21 19 59.8–1.1 41.37N–.03 43.81E–.03 14–14 28 0-2
TIF V 15 21 19 59.7 41.37N 43.88E 18–0 **¶601269895**
ISCJB V 15 21 20 00.2–.84 41.34N–.04 43.89E–.05 8–5
CSEM V 15 21 20 00.2–.20 41.35N 43.86E 5 2.8
DDA V 15 21 20 20.3 40.99N 43.40E 4 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.3km az=146.8.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.6km az=133.0.
TIF V 17 19 42 31.8 41.37N 43.99E 14–3
¶601269916
TIF V 25 14 39 05.8 41.30N 43.82E 14–0
CSEM V 25 14 39 05.8 41.30N 43.82E 0 1.6L **¶601269947**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 31 23 22 15.5–1.2 41.83N–.03 42.11E–.05 18–5 24 1-1
TIF V 31 23 22 14.2 41.87N 42.11E 11–4 **¶601269967**
CSEM V 31 23 22 15.8–.17 41.82N 42.11E 10 2.5
ISCJB V 31 23 22 16.5–.67 41.82N–.03 42.1E–.10 29–12 2.5
DDA V 31 23 22 16.6 41.80N 41.98E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.7km az=2.5.
ISC VI 02 00 33 02.5–1.2 41.18N–.04 43.94E–.03 12–11 24 0-1
DDA VI 02 00 33 01.8 41.27N 43.85E 6 2.8 **¶601269977**
TIF VI 02 00 33 02.0 41.15N 44.03E 14–1 2.8
CSEM VI 02 00 33 02.6–.18 41.15N 43.99E 8 1.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.8km az=151.0.
ISC VI 06 17 28 54.4–.88 40.55N–.02 43.06E–.02 7–6 54 0-2
ISCJB VI 06 17 28 54.4–.44 40.53N–.02 43.05E–.03 5–5 **¶17555601**
DDA VI 06 17 28 54.2 40.51N 43.04E 7 3.0L
CSEM VI 06 17 28 54.0–.18 40.52N 43.04E 8 2.9
TIF VI 06 17 28 54.2 40.57N 43.06E 17–1 2.9
ISK VI 06 17 28 54.0 40.56N 43.02E 10 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.6km az=40.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=147.0.
ISC VI 08 03 56 07.7–1.1 41.70N–.04 43.38E–.07 14–12 21 0-1
ISCJB VI 08 03 56 08.0–.82 41.68N–.04 43.5E–.10 23–11 **¶601270011**
TIF VI 08 03 56 07.3 41.72N 43.40E 15–3
CSEM VI 08 03 56 07.4–.22 41.69N 43.34E 5 1.7L
DDA VI 08 03 56 09.8 42.25N 41.97E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.5km az=7.9.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=84.0.
ISC VI 12 23 34 35.3–.95 41.24N–.03 43.92E–.02 10–8 52 0-2
ISCJB VI 12 23 34 35.0–.54 41.25N–.03 43.92E–.03 0–5 **¶601270049**
TIF VI 12 23 34 34.5 41.27N 43.94E 14–1
CSEM VI 12 23 34 35.1–.15 41.25N 43.91E 2 1.5L
DDA VI 12 23 34 35.6 41.24N 43.84E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.1km az=147.8.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=144.0.
ISC VI 17 00 12 24.9–1.0 40.99N–.02 43.42E–.03 8–9 57 0-2
ISCJB VI 17 00 12 24.9–.56 40.99N–.02 43.41E–.04 4–5 **¶17556019**
CSEM VI 17 00 12 24.8–.21 40.98N 43.41E 2 2.9
TIF VI 17 00 12 24.1 40.98N 43.44E 19–0 2.9
DDA VI 17 00 12 24.6 40.98N 43.39E 7 2.9
ISK VI 17 00 12 25.1 40.87N 43.45E 5 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=37.7.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=117.0.
ISC VI 19 03 59 16.3–.88 41.24N–.03 43.77E–.02 11–6 43 0-2
TIF VI 19 03 59 15.9 41.27N 43.81E 16–1 **¶601270079**
DDA VI 19 03 59 15.8 41.24N 43.77E 7 2.6L
ISCJB VI 19 03 59 16.2–.55 41.22N–.03 43.78E–.04 5–6 2.6L
CSEM VI 19 03 59 16.4–.13 41.23N 43.75E 5 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=146.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=141.0.
ISC VI 28 22 28 53.2–.87 41.22N–.02 43.43E–.02 11–6 54 0-2
DDA VI 28 22 28 52.6 41.22N 43.44E 7 2.8 **¶601270136**
ISCJB VI 28 22 28 53.1–.48 41.20N–.02 43.42E–.03 5–4 2.8
CSEM VI 28 22 28 53.0–.10 41.21N 43.42E 2 2.0L
TIF VI 28 22 28 53.0 41.24N 43.48E 18–0 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=154.3.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=152.0.

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ATH I 01 21 10 47.1 36.15N 23.10E 40–0 2.9
CSEM I 01 21 10 47.1 36.15N 23.10E 40 2.9 **¶600871225**
ATH Error ellipse: s-maj=1.5km s-min=2.1km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 02 17 59 09.4 37.57N 21.77E 12–1 2.5
CSEM I 02 17 59 09.4 37.57N 21.77E 12 2.5 **¶600871252**
ATH Error ellipse: s-maj=0.7km s-min=0.9km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 03 09 29 00.7–.55 37.58N–.01 21.82E–.01 0–4 3.9b 402 0-74
ISCJB I 03 09 29 00.7–.30 37.57N–.01 21.80E–.02 2–2 3.8b,2.9s **¶16021240**
ATH I 03 09 29 00.8 37.59N 21.82E 5–1 3.6L,3.2
IDC I 03 09 29 00.1–.82 37.70N 21.78E 0 3.8,3.8b
CSEM I 03 09 29 01.7–.14 37.60N 21.83E 2 3.8L,3.8b
THE I 03 09 29 01.7 37.58N 21.83E 0–1 3.6L,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=156.4.
ATH Error ellipse: s-maj=0.3km s-min=0.5km az=-1.0.
IDC Error ellipse: s-maj=15.8km s-min=15.4km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=54.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=233.0.
ISC I 06 14 58 30.4–1.2 36.00N–.03 21.98E–.03 10–8 3.9b 227 1-121
IDC I 06 14 58 28.2–.86 36.05N 22.06E 0 4.0,4.0b **¶16395098**
CSEM I 06 14 58 30.7–.39 35.99N 22.00E 2 3.6L,4.0b
ATH I 06 14 58 30.8 36.00N 21.97E 20–1 3.5L,3.5
THE I 06 14 58 32.4 36.04N 22.04E 0–1 3.6L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=17.9km az=128.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=4.0km az=43.0.
ATH Error ellipse: s-maj=1.4km s-min=1.6km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.9km az=221.0.
ATH I 08 04 08 10.4 37.64N 21.23E 29–2 2.8
CSEM I 08 04 08 10.4 37.64N 21.23E 29 2.8 **¶600871400**
ATH Error ellipse: s-maj=1.8km s-min=1.9km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 08 17 08 27.4 37.04N 21.42E 28–1 3.3
CSEM I 08 17 08 27.4 37.04N 21.42E 28 3.3 **¶600871411**
ATH Error ellipse: s-maj=1.6km s-min=2.8km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 09 00 26 15.3–.58 36.19N–.03 21.61E–.03 20–5 4.0b 498 1-76
ISCJB I 09 00 26 14.3–.42 36.16N–.02 21.60E–.02 23–3 3.7b,2.8s **¶16021280**
CSEM I 09 00 26 15.0–.18 36.21N 21.64E 10 3.8L,2.8s
ATH I 09 00 26 15.2 36.18N 21.66E 26–2 4.1L,2.8s
THE I 09 00 26 18.0 36.23N 21.76E 22–2 3.8L,2.8s
IDC I 09 00 26 18.9–1.6 36.20N 21.80E 53–18 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=49.0.
ATH Error ellipse: s-maj=1.6km s-min=1.9km az=-1.0.
THE Event type ke. Error ellipse: s-maj=3.3km s-min=0.8km az=230.0.
IDC Error ellipse: s-maj=17.4km s-min=13.2km az=173.0.
ISC I 09 00 51 28.6–1.4 36.26N–.04 21.70E–.04 21–4 190 1-5
ISCJB I 09 00 51 27.7–.72 36.25N–.03 21.65E–.04 15–4 **¶16868840**
CSEM I 09 00 51 27.7–.37 36.25N 21.67E 10 3.3
ATH I 09 00 51 27.8 36.23N 21.69E 30–2 3.4,2.5L
THE I 09 00 51 29.3 36.26N 21.70E 20–2 2.4L,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.9km az=44.2.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=47.0.
ATH Error ellipse: s-maj=1.7km s-min=1.9km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=236.0.
ISC I 13 05 21 30.3–1.5 36.38N–.04 21.53E–.05 17–9 157 1-10
ISCJB I 13 05 21 28.4–.88 36.33N–.04 21.45E–.06 12–9 **¶16868942**
CSEM I 13 05 21 29.0–.30 36.36N 21.52E 8 3.2L
ATH I 13 05 21 29.2 36.34N 21.47E 31–1 3.6,3.2L
THE I 13 05 21 32.8 36.45N 21.68E 14–0 3.2L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.1km az=141.6.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.5km az=48.0.
ATH Error ellipse: s-maj=1.1km s-min=1.4km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=243.0.
ATH I 13 15 44 09.3 36.99N 21.65E 17–2 2.9
CSEM I 13 15 44 09.8–.29 37.00N 21.70E 15 2.9 **¶16868947**
ATH Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.6km az=78.0.
ISC I 16 05 06 01.9–1.7 36.25N–.06 21.75E–.07 16–9 56 1-3
ISCJB I 16 05 06 00.8–1.2 36.20N–.05 21.65E–.07 21–7 **¶16868990**
CSEM I 16 05 06 01.2–.43 36.25N 21.71E 15 2.7L
THE I 16 05 06 01.8 36.27N 21.74E 12–1 2.7L
ATH I 16 05 06 01.8 36.24N 21.74E 37–3 3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=7.4km az=151.7.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=4.3km az=60.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=1.1km az=233.0.
ATH Error ellipse: s-maj=2.2km s-min=2.8km az=-1.0.
ISC I 17 18 46 30.0–.69 37.84N–.02 21.06E–.02 13–5 4.0b 366 0-74
IDC I 17 18 46 27.6–.84 37.86N 21.25E 0 3.9b,3.8 **¶16019229**
MOS I 17 18 46 27.6–2.0 37.86N 21.25E 10 4.2b,3.8
ATH I 17 18 46 30.9 37.82N 21.07E 15–1 3.9L,3.8
CSEM I 17 18 46 30.8–.19 37.85N 21.05E 12 3.9b,3.8
ISCJB I 17 18 46 30.7–.36 37.87N–.02 21.00E–.02 25–2 3.9b,3.0s
THE I 17 18 46 31.4 37.88N 21.09E 0–3 4.1L,3.0s
NEIC I 17 18 46 31.5 37.90N 21.10E 0 4.1L,3.8b
HLW I 17 18 46 33.4 37.31N 21.10E 33–16 4.7,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=15.4km az=139.0.
MOS Error ellipse: s-maj=10.5km s-min=4.5km az=76.1.
ATH Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=25.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=20.9.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=0.9km az=254.0.
NEIC Event type se. After THE.
ATH I 20 22 23 57.8 37.92N 23.59E 11–3 2.4,1.2L
CSEM I 20 22 23 57.8 37.92N 23.59E 11 2.4,1.2L **¶602426843**
ATH Error ellipse: s-maj=1.0km s-min=1.1km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 20 22 28 59.4 36.48N 21.76E 5–3 3.5
CSEM I 20 22 28 59.4 36.48N 21.76E 5 3.5 **¶600871793**
ATH Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 24 01 02 48.4–.74 37.83N–.02 21.15E–.02 13–6 3.6b 331 0-60
IDC I 24 01 02 45.8–1.0 37.91N 21.21E 0 3.9,3.9s **¶16396661**
ISCJB I 24 01 02 48.8–.36 37.81N–.02 21.09E–.02 23–2 3.8s,3.5b
CSEM I 24 01 02 48.1–.17 37.79N 21.15E 2 3.3,3.5b
ATH I 24 01 02 48.9 37.83N 21.21E 19–0 3.3,3.2L
THE I 24 01 02 49.1 37.80N 21.20E 0–1 3.3L,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=18.5km s-min=17.3km az=167.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=23.3.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=38.0.
ATH Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=225.0.
ISC I 27 03 06 18.9–.75 36.26N–.02 23.09E–.03 11–5 3.5b 208 0-76
ATH I 27 03 06 17.8 36.27N 23.06E 17–0 3.6,2.9L **¶16396932**
ISCJB I 27 03 06 18.5–.45 36.27N–.02 23.09E–.03 11–3 3.5b,2.9L
CSEM I 27 03 06 18.6–.16 36.29N 23.17E 5 3.6,2.9L
THE I 27 03 06 19.2 36.27N 23.07E 11–1 3.3L,2.9L
IDC I 27 03 06 28.9–4.1 36.31N 23.25E 97–39 3.5,3.3
ISC Event type ke.
ATH Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.2km az=143.3.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=2.6km az=57.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=238.0.
IDC Error ellipse: s-maj=30.2km s-min=24.1km az=150.0.
ISC I 27 08 43 27.6–.90 37.82N–.02 22.11E–.02 12–8 96 0-2
ISCJB I 27 08 43 27.2–.33 37.81N–.02 22.11E–.03 10–3 **¶16871596**
CSEM I 27 08 43 27.3–.07 37.82N 22.11E 10 2.6L
THE I 27 08 43 27.6 37.81N 22.12E 8–2 2.6L
ATH I 27 08 43 27.7 37.81N 22.11E 9–1 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=163.8.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=71.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.3km az=34.0.

ATH Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0.
ISC I 30 09 32 38.6–.82 37.86N–.02 23.11E–.01 16–6 121 0-2
ISCJB I 30 09 32 38.7–.28 37.85N–.02 23.14E–.02 23–3 **¶16871645**
CSEM I 30 09 32 38.6–.10 37.84N 23.10E 15 3.2
THE I 30 09 32 38.8 37.85N 23.12E 9–1 3.1L
ATH I 30 09 32 38.7 37.86N 23.10E 18–1 3.5L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=178.4.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=178.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=77.0.
ATH Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0.
ISC I 31 17 23 14.2–.85 37.88N–.03 22.71E–.02 16–5 3.5b 70 0-74
IDC I 31 17 23 11.7–1.3 37.87N 22.67E 0 3.5,3.4 **¶17191423**
ISCJB I 31 17 23 14.1–.30 37.89N–.02 22.71E–.03 26–3 3.5b,3.4
CSEM I 31 17 23 14.4–.15 37.87N 22.70E 10 3.5L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=49.1km s-min=20.7km az=158.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.3km az=137.8.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=36.0.
ISC I 31 17 33 58.6–1.0 37.74N–.03 21.31E–.03 14–7 3.6b 166 0-46
IDC I 31 17 33 56.1–1.4 37.82N 21.28E 0 3.7,3.7b **¶16397336**
ISCJB I 31 17 33 58.6–.52 37.69N–.02 21.27E–.03 19–4 3.6b,3.7b
CSEM I 31 17 33 58.5–.18 37.70N 21.32E 2 3.7L,3.7b
THE I 31 17 33 59.2 37.71N 21.34E 0–2 3.7L,3.7b
BEO I 31 17 34 07.1–1.1 38.33N 20.63E 0 3.5,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=29.5km s-min=25.2km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.0km az=141.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=47.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=225.0.
BEO Event type ke.
ISC II 06 07 40 31.0–1.3 36.43N–.03 21.65E–.04 14–8 3.7b 150 0-97
ISCJB II 06 07 40 31.1–1.0 36.40N–.04 21.54E–.06 16–7 4.2s,3.7b **¶16397709**
CSEM II 06 07 40 32.0–.28 36.45N 21.61E 10 3.4L,3.7b
ATH II 06 07 40 32.8 36.51N 21.73E 24–0 3.4L,3.7b
IDC II 06 07 40 32.9–2.8 36.95N 22.11E 0 4.2,4.2s
THE II 06 07 40 33.9 36.51N 21.78E 3–1 3.7L,4.2s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=5.0km az=147.3.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=59.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.0km az=48.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=66.6km s-min=24.4km az=42.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=60.0.
THE II 09 03 09 54.1 37.71N 21.91E 23–4 1.4L
CSEM II 09 03 09 54.3–.17 37.71N 21.91E 10 1.4L **¶16871875**
ATH II 09 03 09 54.5 37.71N 21.90E 10–11 1.0L
THE Event type ke. Error ellipse: s-maj=4.2km s-min=0.7km az=278.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=79.0.
ATH Event type ke. Error ellipse: s-maj=11.4km s-min=0.8km az=59.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 09 18 47 59.8–.92 36.60N–.03 21.49E–.03 32–6 3.8b 182 0-121
CSEM II 09 18 48 01.1–.49 36.61N 21.52E 26–4 3.5L **¶16168823**
ATH II 09 18 48 01.5 36.64N 21.61E 36–1 3.5L
IDC II 09 18 48 01.3–2.4 36.74N 21.58E 37–22 3.7,3.7b
HLW II 09 18 48 02.5 36.35N 21.48E 34–24 4.3,3.7b
THE II 09 18 48 02.7 36.65N 21.62E 21–1 3.4L,3.7b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.2km az=62.0.
ATH Event type ke. Error ellipse: s-maj=2.8km s-min=1.2km az=49.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=18.0km s-min=13.6km az=9.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=54.0.
THE II 09 19 54 59.2 36.50N 21.63E 22–2 1.8L
CSEM II 09 19 54 59.2 36.50N 21.63E 22 1.8L **¶602892329**
THE Event type ke. Error ellipse: s-maj=4.8km s-min=1.1km az=273.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 11 17 16 17.3–.85 36.70N–.03 21.48E–.03 32–6 4.3b,3.5s 497 0-121
IDC II 11 17 16 13.0–.62 36.75N 21.67E 0 4.3b,4.2 **¶16021084**
CSEM II 11 17 16 16.8–.17 36.66N 21.48E 25 4.3b,4.2
BJI II 11 17 16 16.6 36.80N 21.60E 38 5.0b,4.5b
ATH II 11 17 16 17.5 36.70N 21.49E 31–0 4.0L,4.5b
THE II 11 17 16 18.7 36.70N 21.49E 25–0 4.1L,4.5b
BEO II 11 17 16 18.5–1.1 36.95N 21.34E 0 4.0,4.5b
NEIC II 11 17 16 18.7 36.70N 21.49E 25 4.3b,4.1L
HLW II 11 17 16 30.0 35.81N 23.09E 8–18 4.0,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=13.2km s-min=11.2km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.6km az=43.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=43.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=41.0.
BEO Event type ke.
NEIC Event type se. After THE.
ATH II 21 10 02 04.3 36.26N 21.67E 7–9 2.1L
CSEM II 21 10 02 04.3 36.26N 21.67E 7 2.1L **¶600896748**
ATH Event type ke. Error ellipse: s-maj=9.8km s-min=1.6km az=53.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 23 20 41 30.4–1.3 36.01N–.03 21.82E–.03 4–9 4.0b 259 1-76
ISCJB II 23 20 41 30.3–.77 35.97N–.02 21.75E–.03 12–5 3.8b **¶16168912**
ATH II 23 20 41 30.6 36.01N 21.91E 13–2 3.6L
CSEM II 23 20 41 31.8–.32 36.02N 21.89E 5 3.6L
THE II 23 20 41 31.5 36.05N 21.86E 1–1 3.6L
IDC II 23 20 41 36.6–1.5 36.13N 21.99E 58–15 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.8km az=44.9.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.2km az=45.0. Analyst: Daskalaki ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=3.2km az=42.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.5km az=229.0.
IDC Error ellipse: s-maj=14.0km s-min=10.3km az=14.0.
ISC III 02 12 47 14.9–1.2 37.89N–.02 21.43E–.02 14–9 86 0-1
ATH III 02 12 47 14.4 37.86N 21.44E 30–1 2.2L **¶16872220**
CSEM III 02 12 47 15.1–.28 37.89N 21.43E 25 2.5L
THE III 02 12 47 15.2 37.86N 21.43E 21–2 2.5L
ISCJB III 02 12 47 15.3–.52 37.85N–.03 21.40E–.04 18–7 2.5L
ISC Event type ke.
ATH Event type ke. Analyst: Orfanogiannaki ML Amplitudes are expressed in micrometres All
distances are expressed in km.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC III 03 06 37 54.7–.99 36.68N–.03 21.23E–.03 18–3 3.6b 148 0-120
IDC III 03 06 37 52.0–.93 36.78N 21.37E 0 3.8,3.7 **¶16484282**
CSEM III 03 06 37 53.4–.44 36.60N 21.18E 2 3.7L,3.7
ISCJB III 03 06 37 53.9–.95 36.59N–.04 21.14E–.03 21–7 3.6b,3.7
ATH III 03 06 37 53.6 36.64N 21.21E 15–2 3.3L,3.7
THE III 03 06 37 54.3 36.62N 21.25E 0–2 3.7L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.4km s-min=17.4km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=6.2km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.5km az=15.7.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=48.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=1.2km az=215.0.
THE III 11 15 42 31.8 37.45N 22.23E 15–4 1.6L
CSEM III 11 15 42 31.8 37.45N 22.23E 15 1.6L **¶601070177**
THE Event type ke. Error ellipse: s-maj=4.2km s-min=0.8km az=130.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE III 11 17 12 36.5 37.74N 23.01E 14–3 1.8L
CSEM III 11 17 12 36.5 37.74N 23.01E 14 1.8L **¶601070178**
THE Event type ke. Error ellipse: s-maj=3.7km s-min=0.5km az=102.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 11 23 21 51.6–1.5 36.16N–.04 21.60E–.05 14–9 154 1-7
ISCJB III 11 23 21 51.0–.92 36.10N–.03 21.53E–.05 20–6 **¶16872325**
CSEM III 11 23 21 51.2–.45 36.14N 21.58E 10 2.5L
THE III 11 23 21 52.4 36.18N 21.61E 11–1 2.6L
ATH III 11 23 21 52.1 36.17N 21.68E 28–1 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.9km az=139.5.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=5.1km az=47.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=240.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=232.0. Analyst: K.L. ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ATH III 12 01 07 03.2 37.94N 23.64E 13–1 1.4L
CSEM III 12 01 07 03.2–.13 37.90N 23.65E 8 1.4L **¶16872328**
THE III 12 01 07 03.9 37.91N 23.64E 4–3 1.6L
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.5km az=105.0. Analyst: K.L. ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=153.0.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=0.4km az=91.0.
ISC III 13 13 37 02.5–1.0 37.93N–.02 21.47E–.02 17–8 3.3b 162 0-40
IDC III 13 13 36 57.9–1.3 37.78N 21.03E 0 3.3,3.3L **¶16461596**
ATH III 13 13 37 02.6 37.94N 21.50E 24–1 3.7L,3.3L
CSEM III 13 13 37 03.2–.15 37.93N 21.48E 15 3.7L,3.3L
THE III 13 13 37 03.4 37.93N 21.49E 16–0 3.5L,3.3L
ISCJB III 13 13 37 03.4–.34 37.91N–.02 21.48E–.02 22–3 3.5b,3.3L
ISC Event type ke.
ATH Event type ke. Analyst: Makaris D. ML Amplitudes are expressed in micrometres All
distances are expressed in km.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ATH III 14 18 52 18.9 37.23N 22.38E 16–3 1.1L
CSEM III 14 18 52 18.9 37.23N 22.38E 16 1.1L **¶600897277**
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=0.9km az=313.0. Analyst: A.FOKAEFS ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 15 15 35 25.2 37.11N 22.08E 14–4 1.4L
CSEM III 15 15 35 24.8–.26 37.12N 22.06E 15 1.4L **¶600897311**
ATH Event type ke. Error ellipse: s-maj=5.1km s-min=1.2km az=300.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.5km az=133.0.
ISC III 17 11 06 35.8–.85 37.98N–.03 21.35E–.02 14–5 85 0-1
CSEM III 17 11 06 36.0–.18 38.00N 21.32E 10 3.1L **¶16872423**
ATH III 17 11 06 36.5 38.03N 21.36E 14–2 3.1L
ISCJB III 17 11 06 36.1–.48 37.98N–.03 21.33E–.03 10–3 3.1L
THE III 17 11 06 36.1 37.97N 21.33E 13–1 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=19.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=65.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=18.8.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=90.0.
ISC III 20 21 01 09.2–1.4 36.73N–.04 21.33E–.03 5–9 3.4b 133 0-46
IDC III 20 21 01 08.6–1.4 36.92N 21.53E 0 3.3b,3.2 **¶17197551**
ISCJB III 20 21 01 08.6–.79 36.70N–.03 21.33E–.03 0–4 3.3b,3.2
CSEM III 20 21 01 09.9–.33 36.73N 21.36E 2 2.8L,3.2
ATH III 20 21 01 09.4 36.73N 21.35E 16–0 2.8L,3.2
ISC Event type ke.
IDC Error ellipse: s-maj=29.6km s-min=26.6km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=136.1.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=43.0.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=44.0. ML Amplitudes are
expressed in micrometres All distances are expressed in km.
ATH III 21 19 19 54.8 36.62N 21.29E 18–2 2.3L
CSEM III 21 19 19 54.8 36.62N 21.29E 18 2.3L **¶600897506**
ATH Event type ke. Error ellipse: s-maj=4.3km s-min=2.1km az=56.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 25 12 23 30.5 36.60N 21.62E 30–1 1.8L
CSEM III 25 12 23 30.5 36.60N 21.62E 30 1.8L **¶600897634**
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.1km az=45.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 27 07 07 41.1–1.1 37.70N–.03 21.06E–.03 15–7 3.4b 112 0-46
IDC III 27 07 07 33.5–.55 37.19N 20.43E 0 3.5,3.5 **¶16481161**
CSEM III 27 07 07 41.3–.36 37.70N 21.03E 2 3.4L,3.5
ISCJB III 27 07 07 41.6–.65 37.68N–.03 21.01E–.04 16–5 3.4b,3.5
THE III 27 07 07 41.8 37.69N 21.09E 4–1 3.1L,3.5
ATH III 27 07 07 41.5 37.68N 21.08E 9–2 3.1L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=1053.0km s-min=65.6km az=39.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.1km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.8km az=142.3.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.3km az=215.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=25.0. Analyst: Plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 31 10 37 32.2–1.4 37.48N–.03 22.68E–.03 64–8 3.9b 111 0-93
ATH III 31 10 37 31.7 37.49N 22.67E 59–2 2.2L **¶16475943**
CSEM III 31 10 37 32.5–.08 37.48N 22.67E 60 2.2L
THE III 31 10 37 32.8 37.51N 22.67E 60–2 2.3L
ISCJB III 31 10 37 32.3–.75 37.49N–.03 22.68E–.03 61–7 2.3L
IDC III 31 10 38 03.7–4.4 35.80N 22.04E 0 3.9,3.8b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=175.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=154.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=153.2.
IDC Error ellipse: s-maj=103.7km s-min=31.9km az=30.0.
ISC IV 01 00 58 56.7–1.2 36.25N–.04 21.87E–.04 33–4 3.6b 122 1-46
CSEM IV 01 00 58 54.5–.39 36.17N 21.82E 10 3.6L **¶16705081**
THE IV 01 00 58 55.7 36.21N 21.90E 7–1 3.6L
ATH IV 01 00 58 57.0 36.28N 21.97E 41–3 3.4L
IDC IV 01 00 59 13.2–3.6 36.38N 21.65E 210–40 3.4,3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=4.7km az=38.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=41.0.
ATH Event type ke. Error ellipse: s-maj=5.0km s-min=1.5km az=52.0.
IDC Error ellipse: s-maj=26.4km s-min=14.7km az=152.0.
ISC IV 02 18 21 40.3–1.1 36.79N–.03 21.16E–.03 33–8 3.5b 186 0-70
IDC IV 02 18 21 35.1–1.2 36.79N 21.27E 0 3.7,3.6 **¶16705331**
ATH IV 02 18 21 38.8 36.81N 21.02E 19–1 3.2L,3.6
CSEM IV 02 18 21 39.7–.28 36.77N 21.09E 15 3.1L,3.6
THE IV 02 18 21 42.2 36.85N 21.22E 16–1 3.1L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=23.8km az=120.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.3km az=41.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=28.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=205.0.
ISC IV 02 18 25 09.1–1.4 36.76N–.04 21.11E–.04 12–9 3.1b 126 1-46
IDC IV 02 18 25 06.5–1.6 37.05N 21.03E 0 3.4,3.3 **¶16705333**
ISCJB IV 02 18 25 09.7–.87 36.76N–.03 21.05E–.04 19–5 3.2b,3.3
ATH IV 02 18 25 09.8 36.80N 21.11E 29–1 3.0L,3.3
CSEM IV 02 18 25 09.5–.28 36.78N 21.07E 10 3.0L,3.3
THE IV 02 18 25 11.6 36.84N 21.16E 12–1 3.0L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=31.2km az=125.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=139.6.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.2km az=40.0.

CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.1km az=34.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=217.0.
ISC IV 02 18 31 03.9–1.4 36.80N–.04 21.06E–.04 8–9 3.7b 191 1-70
IDC IV 02 18 31 01.2–1.4 36.94N 21.25E 0 3.8L,3.7 **¶16705334**
ISCJB IV 02 18 31 02.5–.70 36.68N–.03 20.90E–.03 17–5 3.5b,3.7
CSEM IV 02 18 31 03.2–.27 36.76N 20.97E 5 3.3L,3.7
ATH IV 02 18 31 04.9 36.81N 21.10E 28–1 3.3L,3.7
THE IV 02 18 31 05.7 36.84N 21.09E 5–1 3.3L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=27.3km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=16.2.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.4km az=16.0.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.3km az=51.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=176.0.
ISC IV 06 16 55 33.4–1.3 37.03N–.05 21.17E–.04 22–7 112 0-6
ATH IV 06 16 55 33.6 37.09N 21.17E 13–1 3.6L **¶16881438**
THE IV 06 16 55 34.8 37.15N 21.22E 0–2 3.7L
CSEM IV 06 16 55 35.1–.53 37.13N 21.22E 10 3.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.2km az=44.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=212.0.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=5.1km az=43.0.
ATH IV 11 11 38 12.0 37.39N 21.64E 24–6 1.3L
CSEM IV 11 11 38 12.0 37.39N 21.64E 24 1.3L **¶600916090**
ATH Event type ke. Error ellipse: s-maj=7.2km s-min=1.1km az=96.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 14 22 03 30.4–.73 36.61N–.02 22.95E–.02 13–4 3.5b 352 0-90
IDC IV 14 22 03 28.1–.77 36.64N 23.02E 0 3.8,3.6 **¶16648714**
ATH IV 14 22 03 29.9 36.64N 22.96E 23–0 3.3L,3.6
ISCJB IV 14 22 03 31.0–.31 36.60N–.02 22.95E–.02 21–3 3.5b,3.6
THE IV 14 22 03 30.9 36.61N 22.93E 9–0 3.4L,3.6
ISK IV 14 22 03 30.4 36.80N 23.16E 5 3.3L,3.6
CSEM IV 14 22 03 31.0–.13 36.63N 22.98E 10 3.3L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=18.2km s-min=15.1km az=4.0.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=234.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=1.9km az=138.4.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=236.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=46.0.
ISC IV 15 03 18 29.1–.71 36.60N–.02 22.91E–.02 11–4 4.4b 1109 0-120
BJI IV 15 03 18 26.2 36.60N 22.78E 16 5.0b,4.9b **¶16436929**
IDC IV 15 03 18 27.3–.47 36.57N 23.01E 0 4.4,4.2
ATH IV 15 03 18 28.8 36.66N 22.97E 18–0 4.2L,4.2
HLW IV 15 03 18 28.6 36.89N 23.43E 22–11 3.8L,4.2
ISCJB IV 15 03 18 29.8–.28 36.64N–.01 22.93E–.01 20–2 4.4b,4.2s
NEIC IV 15 03 18 29.2 36.61N 22.87E 6 4.5L,4.5b
THE IV 15 03 18 29.2 36.61N 22.87E 6–0 4.5L,4.5b
PDG IV 15 03 18 29.7–.61 36.67N 22.97E 12–1 4.1L,4.5b
MOS IV 15 03 18 30.9–1.1 36.56N 23.05E 33 4.5b,4.5b
CSEM IV 15 03 18 30.2–.08 36.62N 22.96E 15 4.5b,4.3L
DDA IV 15 03 18 51.9 37.90N 24.62E 19 3.9L,4.3L
ISC Event type ke.
IDC Error ellipse: s-maj=12.0km s-min=10.0km az=12.0.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=239.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=35.7.
NEIC Event type se. After THE.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=239.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.0km az=0.0.
MOS Error ellipse: s-maj=6.4km s-min=3.5km az=93.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=38.0.
ISC IV 19 15 06 09.0–.72 37.42N–.01 21.66E–.02 12–5 271 0-7
ISCJB IV 19 15 06 08.8–.39 37.41N–.01 21.64E–.02 2–2 **¶16881634**
ATH IV 19 15 06 08.9 37.41N 21.65E 18–0 3.2L
CSEM IV 19 15 06 09.5–.21 37.47N 21.64E 2 3.6L
THE IV 19 15 06 09.1 37.42N 21.67E 0–2 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=144.0.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=52.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.9km az=51.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.6km az=216.0.
ISC IV 20 11 07 17.2–1.1 36.59N–.03 21.36E–.03 16–8 148 0-7
ATH IV 20 11 07 17.5 36.59N 21.38E 15–1 3.0L **¶16505453**
CSEM IV 20 11 07 18.8–.30 36.63N 21.41E 2 3.2L
THE IV 20 11 07 19.6 36.67N 21.42E 0–2 3.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.7km az=45.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=1.4km az=223.0.
ATH IV 20 18 47 21.3 36.65N 21.52E 22–5 1.8L
CSEM IV 20 18 47 21.3 36.65N 21.52E 22 1.8L **¶600916316**
ATH Event type ke. Error ellipse: s-maj=8.8km s-min=3.5km az=84.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 20 19 02 35.5–1.3 36.64N–.03 21.37E–.03 5–8 3.4b 157 0-46
CSEM IV 20 19 02 36.1–.38 36.65N 21.37E 2 3.1L **¶16505457**
ATH IV 20 19 02 36.1 36.67N 21.42E 12–1 3.0L
THE IV 20 19 02 37.1 36.71N 21.42E 0–0 3.1L
IDC IV 20 19 02 37.6–3.0 37.16N 21.67E 0 3.4,3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.5km az=35.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.2km az=41.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=217.0.
IDC Error ellipse: s-maj=73.4km s-min=23.0km az=43.0.
ISC IV 21 17 19 52.4–1.1 36.79N–.04 21.45E–.03 18–2 3.5b 110 0-46
ATH IV 21 17 19 51.0 36.71N 21.46E 21–1 3.0L **¶16505469**
CSEM IV 21 17 19 51.6–.61 36.73N 21.42E 10 3.0L
THE IV 21 17 19 51.9 36.79N 21.41E 3–1 3.1L
IDC IV 21 17 19 51.3–2.8 37.21N 21.82E 0 3.5,3.4
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.3km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=6.6km az=33.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=47.0.
IDC Error ellipse: s-maj=65.3km s-min=26.3km az=43.0.
ISC IV 22 01 10 50.0–1.3 36.66N–.03 21.37E–.03 8–8 3.5b 188 0-46
ISCJB IV 22 01 10 49.0–.80 36.64N–.03 21.33E–.03 1–5 3.4b **¶16505476**
CSEM IV 22 01 10 49.9–.24 36.66N 21.35E 2 3.3L
ATH IV 22 01 10 50.9 36.70N 21.44E 18–0 3.3L
THE IV 22 01 10 50.7 36.68N 21.42E 0–1 3.4L
IDC IV 22 01 10 56.6–9.0 37.73N 22.18E 0 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=32.6.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=33.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=46.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=215.0.
IDC Error ellipse: s-maj=172.9km s-min=38.8km az=32.0.
ISC IV 22 03 36 30.6–1.2 36.69N–.03 21.40E–.03 7–9 186 0-25
ATH IV 22 03 36 30.8 36.69N 21.42E 14–1 3.4L **¶16505483**
CSEM IV 22 03 36 30.0–.26 36.67N 21.34E 2 3.5L
THE IV 22 03 36 31.0 36.71N 21.42E 0–1 3.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=49.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=28.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=231.0.
ISC IV 22 13 11 55.1–1.2 37.02N–.03 21.16E–.03 11–8 3.6b 245 0-91
ISCJB IV 22 13 11 53.9–.80 36.95N–.03 21.06E–.03 5–5 4.2s,3.7b **¶602213012**
IDC IV 22 13 11 53.8–2.1 37.18N 21.31E 0 3.5,3.4
ATH IV 22 13 11 55.0 37.00N 21.13E 22–0 3.3L,3.4
THE IV 22 13 11 55.8 37.01N 21.15E 0–1 3.5L,3.4
CSEM IV 22 13 11 55.9–.21 37.03N 21.16E 5 3.5L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=2.8km az=43.4.
IDC Error ellipse: s-maj=44.6km s-min=19.2km az=39.0.

ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=236.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.5km az=45.0.
ISC IV 24 21 12 55.4–.92 36.97N–.02 22.95E–.02 9–8 128 0-3
ISCJB IV 24 21 12 55.0–.46 36.96N–.02 22.94E–.03 3–4 **¶16881791**
ATH IV 24 21 12 55.3 36.96N 22.91E 14–5 2.4L
THE IV 24 21 12 55.5 36.97N 22.96E 2–1 2.8L
CSEM IV 24 21 12 55.3–.13 36.96N 22.95E 8 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=163.6.
ATH Event type ke. Error ellipse: s-maj=5.7km s-min=0.9km az=146.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=74.0.
ATH IV 24 21 13 11.0 36.94N 22.94E 16–6 2.8L
CSEM IV 24 21 13 11.0 36.94N 22.94E 16 2.8L **¶600916474**
ATH Event type ke. Error ellipse: s-maj=6.7km s-min=1.1km az=157.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 24 21 16 38.7–.96 36.97N–.01 22.94E–.02 7–8 187 0-3
ISCJB IV 24 21 16 38.3–.42 36.96N–.01 22.92E–.02 4–3 **¶16881792**
ATH IV 24 21 16 38.2 36.96N 22.94E 25–1 2.6L
CSEM IV 24 21 16 38.5–.08 36.97N 22.93E 5 2.6L
THE IV 24 21 16 38.7 36.97N 22.92E 4–0 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=154.5.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=190.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=64.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=191.0.
ATH IV 28 23 30 28.4 37.91N 23.53E 17–4 1.1L
CSEM IV 28 23 30 28.4 37.91N 23.53E 17 1.1L **¶600916579**
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.0km az=89.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH IV 29 02 32 32.0 36.58N 21.81E 27–1 2.1L
CSEM IV 29 02 32 32.0 36.58N 21.81E 27 2.1L **¶600916586**
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.2km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 07 08 32 36.8–1.7 36.52N–.06 21.31E–.04 1–10 85 1-4
CSEM V 07 08 32 36.8–.48 36.49N 21.33E 2 2.6L **¶16881996**
ATH V 07 08 32 36.7 36.49N 21.31E 21–1 2.6L
THE V 07 08 32 36.6 36.48N 21.30E 0–4 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.8km az=31.0.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.3km az=39.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.6km az=212.0.
ISC V 14 13 51 22.8–1.9 36.37N–.06 21.32E–.05 15–10 43 1-6
ISCJB V 14 13 51 21.3–1.8 36.29N–.07 21.25E–.06 15–12 **¶601078177**
CSEM V 14 13 51 23.2 36.37N 21.36E 12 2.7L
THE V 14 13 51 23.2 36.37N 21.36E 12–0 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.5km az=32.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=28.0.
THE V 15 14 49 14.0 36.53N 23.12E 3–3 1.9L
ATH V 15 14 49 12.9 36.54N 23.01E 19–3 1.7L **¶16882188**
CSEM V 15 14 49 13.2–.17 36.53N 22.97E 16–1 1.7L
THE Event type ke. Error ellipse: s-maj=4.0km s-min=0.6km az=270.0.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.2km az=239.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.6km az=62.0.
ATH V 19 22 59 40.3 37.55N 23.57E 18–5 1.0L
CSEM V 19 22 59 40.3 37.55N 23.57E 18 1.0L **¶600917122**
ATH Event type ke. Error ellipse: s-maj=5.6km s-min=1.0km az=304.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 07 19 55.0–.80 37.89N–.02 21.53E–.01 14–5 168 0-4
ATH V 20 07 19 54.9 37.92N 21.54E 20–1 3.6L **¶16882315**
ISCJB V 20 07 19 55.4–.33 37.90N–.02 21.52E–.02 9–2 3.6L
CSEM V 20 07 19 55.1–.12 37.90N 21.53E 8 3.6L
THE V 20 07 19 55.3 37.90N 21.51E 6–0 3.6L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=243.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=42.6.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=42.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=260.0.
ISC V 21 02 58 45.9–1.2 37.04N–.03 21.21E–.03 11–8 3.9b 139 0-69
ISCJB V 21 02 58 45.4–.75 37.01N–.03 21.17E–.03 3–4 3.6b,3.1s **¶16710471**
ATH V 21 02 58 46.0 37.05N 21.23E 18–1 3.2L,3.1s
CSEM V 21 02 58 46.2–.34 37.04N 21.20E 2 3.2L,3.1s
THE V 21 02 58 47.0 37.09N 21.24E 0–1 3.2L,3.1s
IDC V 21 02 58 52.0–8.7 37.10N 21.35E 74–107 3.6,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=42.7.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.4km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=228.0.
IDC Error ellipse: s-maj=69.0km s-min=26.5km az=111.0.
ATH V 24 22 17 36.8 37.98N 23.36E 13–6 0.7L
CSEM V 24 22 17 36.8 37.98N 23.36E 13 0.7L **¶600917239**
ATH Event type ke. Error ellipse: s-maj=6.3km s-min=0.7km az=188.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH V 25 10 09 57.5 37.40N 22.07E 21–3 1.5L
CSEM V 25 10 09 57.5 37.40N 22.07E 21 1.5L **¶600917252**
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.1km az=156.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH V 25 21 54 59.7 37.95N 21.12E 12–2 1.2L
CSEM V 25 21 54 59.7 37.95N 21.12E 12 1.2L **¶600917267**
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=159.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 23 27 50.3–.58 37.91N–.01 21.11E–.01 14–3 4.9b,4.2s 1339 0-132
HLW V 25 23 27 44.2 38.32N 21.37E 33–22 4.7L,4.2s **¶602385986**
IDC V 25 23 27 47.9–.50 38.00N 21.22E 0 4.6,4.6b
ISCJB V 25 23 27 49.6–.23 37.91N–.01 21.06E–.01 20–1 4.8b,4.1s
NEIC V 25 23 27 49.4 37.94N 21.12E 10 5.0L,4.9L
PDG V 25 23 27 49.0–.62 37.96N 21.08E 6–1 4.8L,4.9L
CSEM V 25 23 27 49.5–.09 37.93N 21.08E 5 4.8b,4.9L
ATH V 25 23 27 49.4 37.94N 21.12E 13–0 4.9L,4.9L
THE V 25 23 27 50.1 37.95N 21.12E 0–1 5.1L,4.9L
MOS V 25 23 27 50.4–1.4 37.94N 21.09E 25 5.1b,4.2s
ISC Event type fe.
IDC Error ellipse: s-maj=10.9km s-min=9.6km az=45.0.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=30.4.
NEIC Event type fe. Felt [IV] at Planos and Patrai; [III] at Zakynthos. Also felt at Agrinion, Bokhali, Kalamakion, Mouzakion and Pyrgos. After ATH.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=29.0.
ATH Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=206.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=270.0.
MOS Error ellipse: s-maj=4.8km s-min=2.8km az=79.1.
ISC V 26 04 14 40.9–.69 37.93N–.02 21.10E–.02 11–4 3.9b 223 0-60
ISCJB V 26 04 14 41.6–.34 37.94N–.02 21.11E–.02 8–2 3.8b **¶16560144**
THE V 26 04 14 41.8 37.93N 21.13E 0–1 3.8L
CSEM V 26 04 14 41.9–.20 37.95N 21.14E 2 3.8L
ATH V 26 04 14 41.0 37.94N 21.14E 17–1 3.8L
IDC V 26 04 14 47.9–1.9 37.93N 21.17E 66–21 3.7,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=31.2.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.4km az=223.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=37.0.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=210.0.
IDC Error ellipse: s-maj=17.5km s-min=13.2km az=50.0.
ISC V 26 12 56 18.8–.58 37.92N–.01 21.09E–.02 10–3 4.8b,4.0s 1079 0-122
IDC V 26 12 56 16.6–.49 37.95N 21.13E 0 4.5,4.5b **¶16546030**
PDG V 26 12 56 18.7–.26 38.05N 21.15E 10–1 4.8,4.7L
THE V 26 12 56 18.6 37.93N 21.16E 0–1 4.7L,4.7L

ISCJB	V	26 12 56 18.1–.26	37.94N–.01	21.04E–.01	15–2	4.7b,3.9s	
NEIC	V	26 12 56 18.4	37.92N	21.16E	15	4.8b,4.7L	
CSEM	V	26 12 56 18.2–.08	37.93N	21.11E	5	4.7b,4.3W	
ATH	V	26 12 56 18.3	37.94N	21.16E	17–0	4.5L,4.3W	
MOS	V	26 12 56 20.5–1.5	37.95N	21.04E	34	4.9b,4.3W	
HLW	V	26 12 56 21.6	38.08N	22.01E	33–20	4.1L,4.3W	
ISC		Event type fe.					
IDC		Error ellipse: s-maj=10.9km s-min=9.5km az=33.0.					
PDG		Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=90.0.					
THE		Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=181.0.					
ISCJB		Event type fe. Error ellipse: s-maj=2.1km s-min=1.6km az=31.6.					
NEIC		Event type fe. Felt [III] at Zakynthos. Also felt at Naxos, Patrai and Pelopion. After ATH.					
CSEM		Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=28.0.					
ATH		Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=229.0.					
MOS		Error ellipse: s-maj=5.3km s-min=3.1km az=78.2.					
THE	**V**	**26 14 27 20.4**	**37.90N**	**21.05E**	**20–1**	**2.5L**	
CSEM	V	26 14 27 19.8–.25	37.87N	21.03E	17–1	2.5L	**¶16882515**
ATH	V	26 14 27 20.1	37.89N	21.04E	23–1	2.2L	
THE		Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=232.0.					
CSEM		Event type ke. Error ellipse: s-maj=5.3km s-min=3.7km az=12.0.					
ATH		Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=185.0.					
ATH	**V**	**26 15 01 08.6**	**37.92N**	**21.09E**	**12–2**	**1.5L**	
CSEM	V	26 15 01 08.6	37.92N	21.09E	12	1.5L	**¶600917314**
ATH		Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=165.0.					
CSEM		Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.					
ATH	**V**	**29 20 38 02.6**	**38.00N**	**22.78E**	**25–1**	**1.4L**	
CSEM	V	29 20 38 02.6	38.00N	22.78E	25	1.4L	**¶600917410**
ATH		Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=155.0.					
CSEM		Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.					
THE	**V**	**30 23 05 22.5**	**37.23N**	**21.37E**	**22–0**	**2.0L**	
ATH	V	30 23 05 21.9	37.26N	21.36E	23–1	1.8L	**¶16882646**
CSEM	V	30 23 05 22.7–.28	37.25N	21.37E	20	1.8L	
THE		Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=190.0.					
ATH		Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=49.0.					
CSEM		Event type ke. Error ellipse: s-maj=6.3km s-min=3.4km az=40.0.					
ISC	**V**	**31 22 47 53.5–.71**	**36.65N–.02**	**22.94E–.02**	**13–4**	**3.7b**	**283 0-75**
IDC	V	31 22 47 52.0–1.2	36.72N	23.23E	0	3.7,3.6	**¶16702416**
ATH	V	31 22 47 52.7	36.65N	22.99E	18–0	3.5L,3.6	
CSEM	V	31 22 47 53.3–.14	36.65N	22.97E	5	3.5L,3.6	
IASPE	V	31 22 47 53.0–.83	36.64N–.02	22.89E–.03	13–5	3.7b,3.6	
ISK	V	31 22 47 53.8	36.78N	23.09E	5	3.3L,3.6	
ISCJB	V	31 22 47 53.2–.44	36.64N–.02	22.98E–.02	10–3	3.5b,3.6	
THE	V	31 22 47 53.6	36.64N	23.00E	2–2	3.4L,3.6	
ISC		Event type ke.					
IDC		Error ellipse: s-maj=25.8km s-min=15.8km az=36.0.					
ATH		Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=239.0.					
CSEM		Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=42.0.					
IASPE		Event type ke. Error ellipse: s-maj=4.8km s-min=2.7km az=68.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.					
ISCJB		Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=43.0.					
THE		Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=225.0.					
ISC	**VI**	**01 10 54 15.9–.79**	**36.59N–.02**	**22.93E–.02**	**12–5**	**3.7b**	**191 0-79**
ATH	VI	01 10 54 16.0	36.62N	22.92E	24–0	3.8L	**¶16856009**
THE	VI	01 10 54 16.9	36.62N	22.93E	7–0	3.9L	
ISCJB	VI	01 10 54 16.4–.46	36.60N–.02	22.92E–.03	12–3	3.6b,2.7s	
CSEM	VI	01 10 54 16.6–.10	36.62N	22.92E	10	3.8L,2.7s	
HLW	VI	01 10 54 17.0	36.85N	22.97E	29–13	4.1L,4.0	
IDC	VI	01 10 54 22.2–2.0	36.49N	23.11E	72–22	3.8,3.7	
ISC		Event type ke.					
ATH		Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=234.0.					
THE		Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=245.0.					
ISCJB		Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=150.5.					
CSEM		Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=57.0.					
IDC		Error ellipse: s-maj=19.2km s-min=17.8km az=123.0.					
ISC	**VI**	**01 17 18 53.8–.29**	**36.34N–.02**	**22.26E–.02**	**11**	**4.6b,3.6s**	**736 1-121**
ISCJB	VI	01 17 18 52.3–.20	36.26N–.02	22.08E–.02	11	4.5b,3.7s	**¶603247066**
IDC	VI	01 17 18 52.3–.46	36.41N	22.31E	0	4.5,4.5b	
BJI	VI	01 17 18 55.9	36.59N	22.10E	49	4.8b,4.8b	
CSEM	VI	01 17 18 55.5–.17	36.27N	22.14E	20	4.5L,4.5b	
TIR	VI	01 17 18 56.4	36.76N	21.14E	8	3.9L,4.5b	
ATH	VI	01 17 18 56.9	36.35N	22.25E	27–1	4.3L,4.5b	
PDG	VI	01 17 18 56.7–.28	36.59N	22.15E	11–3	4.5L,4.5b	
HLW	VI	01 17 18 57.9	36.41N	22.54E	24–20	4.3,4.1L	
THE	VI	01 17 18 58.1	36.37N	22.29E	11–1	4.5L,4.1L	
NEIC	VI	01 17 18 58.1	36.37N	22.29E	11	4.5b,4.5L	
MOS	VI	01 17 18 59.2–1.1	36.49N	22.26E	64	4.8b,4.5L	
GII	VI	01 17 19 02.6–.06	35.66N	22.84E	32	4.4b,4.3	
ISC		Event type ke.					
ISCJB		Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=35.5.					
IDC		Error ellipse: s-maj=11.0km s-min=10.4km az=33.0.					
CSEM		Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=40.0.					
ATH		Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=45.0.					
PDG		Event type ke. Error ellipse: s-maj=4.0km s-min=1.5km az=90.0.					
THE		Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=47.0.					
NEIC		Event type se. After THE.					
MOS		Error ellipse: s-maj=5.6km s-min=3.0km az=89.1.					
GII		Event type ke.					
ISC	**VI**	**02 14 08 05.0–.76**	**36.63N–.02**	**22.99E–.02**	**13–4**	**3.4b**	**154 0-44**
ATH	VI	02 14 08 04.6	36.65N	23.00E	18–0	3.1L	**¶16882731**
THE	VI	02 14 08 04.9	36.65N	22.96E	14–0	3.4L	
ISCJB	VI	02 14 08 05.2–.47	36.64N–.02	22.99E–.03	10–3	3.4s,3.2b	
CSEM	VI	02 14 08 05.9–.20	36.62N	22.97E	15	3.4L,3.2b	
IDC	VI	02 14 08 15.1–4.3	36.40N	23.28E	115–44	3.4s,3.4	
ISC		Event type ke.					
ATH		Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=252.0.					
THE		Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=69.0.					
ISCJB		Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=151.0.					
CSEM		Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=58.0.					
IDC		Error ellipse: s-maj=53.6km s-min=24.9km az=146.0.					
ISC	**VI**	**02 14 16 36.4–.79**	**36.61N–.02**	**22.91E–.02**	**10–5**	**3.5b**	**190 0-45**
ISCJB	VI	02 14 16 36.7–.47	36.63N–.02	22.98E–.02	9–3	3.5b	**¶16856109**
ATH	VI	02 14 16 36.5	36.66N	23.04E	19–0	3.1L	
THE	VI	02 14 16 36.8	36.62N	22.89E	8–0	3.4L	
CSEM	VI	02 14 16 36.7–.14	36.65N	23.00E	5	3.1L	
IDC	VI	02 14 16 42.3–2.8	36.50N	23.20E	67–34	3.6,3.4	
ISC		Event type ke.					
ISCJB		Event type ke. Error ellipse: s-maj=3.6km s-min=2.2km az=151.4.					
ATH		Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=242.0.					
THE		Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=246.0.					
CSEM		Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=60.0.					
IDC		Error ellipse: s-maj=30.0km s-min=23.4km az=150.0.					
ISC	**VI**	**02 14 22 35.6–.70**	**36.67N–.01**	**22.96E–.02**	**15–4**	**3.6b**	**197 0-75**
ISCJB	VI	02 14 22 35.7–.43	36.65N–.02	22.98E–.03	12–3	3.5b	**¶16856110**
ATH	VI	02 14 22 35.0	36.67N	23.05E	16–0	3.2L	
THE	VI	02 14 22 35.4	36.62N	22.88E	8–0	3.5L	
CSEM	VI	02 14 22 35.5–.17	36.67N	23.02E	2	3.2L	
IDC	VI	02 14 22 40.2–4.0	36.55N	23.20E	51–46	3.9L,3.7	
ISC		Event type ke.					
ISCJB		Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=152.3.					
ATH		Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=248.0.					
THE		Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=246.0.					
CSEM		Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=59.0.					
IDC		Error ellipse: s-maj=37.8km s-min=24.4km az=157.0.					
ISC	**VI**	**04 05 23 16.7–.61**	**37.93N–.01**	**21.09E–.01**	**12–4**	**4.1b,2.9s**	**606 0-122**
TIR	VI	04 05 23 03.8	37.23N	21.16E	7	4.1L,2.9s	**¶603247067**
IDC	VI	04 05 23 14.9–.66	38.00N	21.12E	0	4.0,4.0b	
ISCJB	VI	04 05 23 16.4–.34	37.93N–.01	20.99E–.02	12–2	4.0b,2.9s	
PDG	VI	04 05 23 16.9–.58	37.96N	21.08E	8–0	4.0L,2.9s	
NEIC	VI	04 05 23 16.7	37.95N	21.10E	14	4.2L,4.1b	
ATH	VI	04 05 23 16.7	37.95N	21.10E	14–0	4.0L,4.1b	
MOS	VI	04 05 23 16.1–1.2	37.88N	20.92E	18	4.5b,4.1b	
THE	VI	04 05 23 17.3	37.95N	21.11E	0–1	4.2L,4.1b	
CSEM	VI	04 05 23 17.6–.13	37.96N	21.05E	10	4.0b,4.1b	
ISC		Event type ke.					
IDC		Error ellipse: s-maj=14.1km s-min=13.2km az=35.0.					
ISCJB		Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=32.7.					
PDG		Event type ke. Error ellipse: s-maj=0.7km s-min=0.8km az=0.0.					
NEIC		Event type se. After ATH.					
ATH		Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=214.0.					
MOS		Error ellipse: s-maj=7.8km s-min=4.2km az=75.3.					
THE		Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=253.0.					
CSEM		Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=33.0.					
ISC	**VI**	**07 22 48 26.0–.85**	**37.70N–.02**	**21.28E–.02**	**15–6**	**3.6b**	**312 0-77**
IDC	VI	07 22 48 23.3–1.1	37.63N	21.50E	0	4.2L,3.7	**¶16856623**
ATH	VI	07 22 48 25.8	37.70N	21.30E	13–1	3.4L,3.7	
CSEM	VI	07 22 48 26.6–.19	37.70N	21.29E	10	3.4L,3.7	
ISCJB	VI	07 22 48 26.0–.46	37.67N–.02	21.25E–.02	15–3	3.6b,3.1s	
THE	VI	07 22 48 26.5	37.71N	21.29E	0–3	3.6L,3.1s	
BEO	VI	07 22 48 29.3–1.1	37.95N	20.57E	0	3.7,3.1s	
ISC		Event type ke.					
IDC		Error ellipse: s-maj=24.0km s-min=17.7km az=162.0.					
ATH		Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=12.0.					
CSEM		Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=50.0.					
ISCJB		Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=44.1.					
THE		Event type ke. Error ellipse: s-maj=3.2km s-min=0.8km az=213.0.					
BEO		Event type ke.					
CSEM	**VI**	**08 22 05 13.9–.45**	**37.30N**	**21.79E**	**10**	**1.5L**	
ATH	VI	08 22 05 13.5	37.33N	21.70E	18–4	1.1L	**¶602546760**
CSEM		Event type ke. Error ellipse: s-maj=12.3km s-min=7.6km az=94.0.					
ATH		Event type ke. Error ellipse: s-maj=4.1km s-min=1.2km az=204.0.					
ISC	**VI**	**10 23 24 18.1–.94**	**37.67N–.01**	**21.71E–.02**	**5–8**		**142 0-2**
ATH	VI	10 23 24 18.0	37.67N	21.72E	11–2	2.1L	**¶16882976**
THE	VI	10 23 24 18.0	37.67N	21.73E	2–28	2.4L	
CSEM	VI	10 23 24 18.1–.14	37.67N	21.72E	2	2.1L	
ISC		Event type ke.					
ATH		Event type ke. Error ellipse: s-maj=2.2km s-min=0.5km az=239.0.					
THE		Event type ke. Error ellipse: s-maj=28.5km s-min=0.3km az=273.0.					
CSEM		Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=48.0.					
ATH	**VI**	**14 23 35 13.6**	**36.43N**	**22.02E**	**18–3**	**1.7L**	
CSEM	VI	14 23 35 13.6	36.43N	22.02E	18	1.7L	**¶602546910**
ATH		Event type ke. Error ellipse: s-maj=7.2km s-min=2.3km az=22.0.					
CSEM		Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.					
ISC	**VI**	**16 22 12 36.6–.81**	**37.96N–.02**	**21.09E–.02**	**14–5**		**153 0-2**
ATH	VI	16 22 12 36.1	37.93N	21.06E	8–1	2.5L	**¶16883111**
CSEM	VI	16 22 12 36.9–.27	37.97N	21.09E	10	2.5L	
THE	VI	16 22 12 36.3	37.97N	21.11E	17–0	2.9L	
ISC		Event type ke.					
ATH		Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=68.0.					
CSEM		Event type ke. Error ellipse: s-maj=5.3km s-min=4.7km az=49.0.					
THE		Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=279.0.					
ISC	**VI**	**19 06 06 08.4–.86**	**36.89N–.02**	**22.79E–.02**	**12–7**		**93 0-2**
ATH	VI	19 06 06 07.9	36.89N	22.80E	19–1	2.0L	**¶16883219**
ISCJB	VI	19 06 06 08.3–.51	36.88N–.02	22.77E–.03	10–4	2.0L	
THE	VI	19 06 06 08.8	36.88N	22.76E	2–3	2.0L	
CSEM	VI	19 06 06 08.3–.13	36.88N	22.80E	10	2.0L	
ISC		Event type ke.					
ATH		Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=137.0.					
ISCJB		Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=158.5.					
THE		Event type ke. Error ellipse: s-maj=3.9km s-min=0.5km az=188.0.					
CSEM		Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=63.0.					
ISC	**VI**	**20 02 35 41.0–.73**	**37.86N–.01**	**21.13E–.01**	**11–4**	**4.0b**	**384 0-74**
IDC	VI	20 02 35 39.9–.93	37.93N	21.05E	0	4.0b,3.8	**¶603247075**
ISCJB	VI	20 02 35 40.8–.38	37.89N–.02	21.01E–.01	13–2	3.9b,3.8	
CSEM	VI	20 02 35 40.9–.16	37.88N	21.07E	2	3.6L,3.8	
NEIC	VI	20 02 35 40.7	37.85N	21.14E	2	3.8L,3.6L	
ATH	VI	20 02 35 40.7	37.85N	21.14E	2–1	3.6L,3.6L	
THE	VI	20 02 35 41.4	37.87N	21.17E	0–1	3.8L,3.6L	
BEO	VI	20 02 35 53.6–.92	38.83N	21.00E	0	3.2,3.6L	
TIR	VI	20 02 36 07.2–.30	39.19N	20.47E	7	3.6L,3.6L	
ISC		Event type ke.					
IDC		Error ellipse: s-maj=16.8km s-min=15.4km az=24.0.					
ISCJB		Event type fe. Error ellipse: s-maj=2.8km s-min=2.0km az=10.7.					
CSEM		Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=18.0.					
NEIC		Event type fe. Felt at Gastouni. After ATH.					
ATH		Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=261.0.					
THE		Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=254.0.					
BEO		Event type ke.					
TIR		Error ellipse: s-maj=7.1km s-min=3.0km az=-1.0.					
THE	**VI**	**23 00 28 16.0**	**37.59N**	**22.07E**	**13–1**	**1.6L**	
ATH	VI	23 00 28 15.4	37.58N	22.06E	25–2	1.4L	**¶16880979**
CSEM	VI	23 00 28 15.7–.12	37.58N	22.06E	15	1.4L	
THE		Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=267.0.					
ATH		Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=117.0.					
CSEM		Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=81.0.					
ISC	**VI**	**25 11 12 27.3–1.2**	**36.05N–.03**	**22.28E–.03**	**13–7**	**3.7b**	**191 1-79**
IDC	VI	25 11 12 27.3–1.1	36.48N	22.54E	0	3.7,3.6	**¶16731434**
ATH	VI	25 11 12 28.1	36.06N	22.34E	16–1	3.6L,3.6	
THE	VI	25 11 12 28.9	36.07N	22.38E	0–2	3.8L,3.6	
CSEM	VI	25 11 12 29.0–.29	36.09N	22.41E	2	3.8L,3.6	
ISC		Event type ke.					
IDC		Error ellipse: s-maj=24.1km s-min=19.2km az=51.0.					
ATH		Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=46.0.					
THE		Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=235.0.					
CSEM		Event type ke. Error ellipse: s-maj=7.4km s-min=3.3km az=42.0.					
ISC	**VI**	**27 05 32 34.8–.78**	**37.94N–.02**	**21.18E–.02**	**16–4**		**103 0-2**
ISCJB	VI	27 05 32 34.9–.39	37.94N–.02	21.14E–.02	8–3		**¶16881072**
ATH	VI	27 05 32 34.4	37.95N	21.16E	16–3	2.3L	
CSEM	VI	27 05 32 34.5–.20	37.93N	21.15E	10	2.3L	
THE	VI	27 05 32 34.8	37.94N	21.15E	8–1	2.5L	
ISC		Event type ke.					
ISCJB		Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=20.3.					
ATH		Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=196.0.					
CSEM		Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=18.0.					
THE		Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=208.0.					
THE	**VI**	**28 08 59 56.7**	**37.26N**	**21.98E**	**7–1**	**1.8L**	
ATH	VI	28 08 59 56.6	37.22N	22.01E	9–3	1.6L	**¶16881089**
CSEM	VI	28 08 59 56.4–.15	37.22N	22.01E	8	1.6L	
THE		Event type ke. Error ellipse: s-maj=1.9km s-min=0.4km az=173.0.					
ATH		Event type ke. Error ellipse: s-maj=4.0km s-min=0.9km az=241.0.					
CSEM		Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=97.0.					
ISC	**VI**	**29 00 48 40.9–.82**	**37.83N–.02**	**21.12E–.02**	**11–5**	**3.6b**	**186 0-46**
ISCJB	VI	29 00 48 40.1–.47	37.78N–.02	21.10E–.02	1–3	3.6b	**¶16731738**
IDC	VI	29 00 48 40.1–1.1	37.75N	21.24E	0	3.6b,3.5	
ATH	VI	29 00 48 40.6	37.84N	21.15E	16–2	3.2L,3.5	
CSEM	VI	29 00 48 41.4–.28	37.81N	21.13E	10	3.2L,3.5	
THE	VI	29 00 48 41.4	37.80N	21.14E	0–2	3.3L,3.5	
ISC		Event type ke.					
ISCJB		Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=33.9.					
IDC		Error ellipse: s-maj=25.7km s-min=19.7km az=128.0.					
ATH		Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=291.0.					
CSEM		Event type ke. Error ellipse: s-maj=5.4km s-min=4.2km az=35.0.					
THE		Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=210.0.					
ISC	**VI**	**29 19 49 20.1–1.1**	**37.38N–.03**	**21.22E–.02**	**4–10**		**121 0-9**
THE	VI	29 19 49 19.9	37.36N	21.22E	1–1	3.2L	**¶603482815**
ATH	VI	29 19 49 20.2	37.37N	21.24E	5–2	3.0L	
CSEM	VI	29 19 49 20.5–.35	37.39N	21.23E	2	3.2L	
ISC		Event type ke.					
THE		Event type ke. Error ellipse: s-maj=1.6km s-min=0.4km az=229.0.					
ATH		Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=325.0.					
CSEM		Event type ke. Error ellipse: s-maj=7.2km s-min=3.8km az=41.0.					

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ISC I 02 19 29 15.0–1.1 36.75N–.03 28.08E–.02 62–8 133 0-10
ISK I 02 19 29 13.8 36.82N 28.11E 78 3.5L ¶16357775
ATH I 02 19 29 13.7 36.78N 28.07E 72–2 3.5L
DDA I 02 19 29 13.9 36.79N 28.07E 65 3.7L
ISCJB I 02 19 29 13.6–.37 36.75N–.02 28.08E–.03 80–4 3.7L
CSEM I 02 19 29 14.2–.18 36.72N 28.13E 73–3 3.5L
HLW I 02 19 29 17.6 36.41N 28.20E 33–18 3.6
ISC Event type ke.
ATH Error ellipse: s-maj=1.2km s-min=1.7km az=-1.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=4.1km az=40.1.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.7km az=100.0.
ISC I 03 03 05 19.3–1.1 36.01N–.03 27.94E–.03 32–12 63 0-4
DDA I 03 03 05 14.2 35.71N 27.70E 28 3.0 ¶600871260
ATH I 03 03 05 19.5 36.06N 27.80E 39–2 3.0
CSEM I 03 03 05 19.3–.28 35.97N 27.93E 30 3.0
ISC Event type ke.
DDA Event type ke.
ATH Error ellipse: s-maj=2.0km s-min=2.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.2km az=143.0.
ISC I 03 05 41 27.0–1.1 36.60N–.03 27.70E–.03 81–7 129 0-9
ATH I 03 05 41 24.9 36.67N 27.76E 89–2 ¶16357784
ISCJB I 03 05 41 25.5–.36 36.58N–.02 27.69E–.03 92–4
ISK I 03 05 41 26.8 36.67N 27.69E 79 3.2
CSEM I 03 05 41 26.7–.13 36.56N 27.73E 80 3.2
DDA I 03 05 41 29.9 36.91N 27.74E 58 3.2
HLW I 03 05 41 31.0 36.21N 27.88E 33–26 3.7
ISC Event type ke.
ATH Error ellipse: s-maj=1.7km s-min=1.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.9km az=26.8.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=117.0.
DDA Event type ke.
ISC I 04 04 38 04.1–2.3 36.62N–.10 27.66E–.05 3–12 24 0-1
CSEM I 04 04 38 04.6–1.0 36.62N 27.62E 5 2.6 ¶16357798
DDA I 04 04 38 07.7 36.77N 27.47E 7 2.6
ISK I 04 04 38 07.4 36.81N 27.58E 13 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.7km s-min=8.2km az=21.0.
DDA Event type ke.
DDA I 06 12 35 38.7 36.89N 27.87E 7 2.5
¶601608403
DDA Event type ke.
ISC I 07 01 14 01.3–.92 36.10N–.02 27.55E–.02 17–6 4.0b 260 0-42
IDC I 07 01 13 58.7–.79 36.13N 27.50E 0 3.9b,3.8 ¶15908413
ATH I 07 01 14 00.3 36.19N 27.49E 19–1 3.5,3.3L
THE I 07 01 14 01.4 36.07N 27.55E 6–1 3.5L,3.3L
ISCJB I 07 01 14 01.3–.39 36.05N–.02 27.54E–.02 24–3 3.7b,3.3L
CSEM I 07 01 14 01.2–.09 36.08N 27.50E 10 3.4,3.3L
DDA I 07 01 14 01.6 36.16N 27.56E 25 3.4,3.3L
ISK I 07 01 14 03.2 36.18N 27.48E 25 3.4,3.3L
HLW I 07 01 14 03.0 36.10N 27.58E 17–14 3.0,3.3L
NIC I 07 01 14 04.3–.20 35.81N 27.58E 66 4.4b,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=19.2km s-min=13.4km az=159.0.
ATH Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=94.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=161.9.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=165.0.
DDA Event type ke.
ISC I 10 01 36 15.4–.88 37.43N–.01 27.00E–.02 13–7 210 0-4
ISK I 10 01 36 13.9 37.43N 27.02E 5 3.1L ¶16357950
ATH I 10 01 36 14.7 37.44N 26.94E 24–0 3.3,2.9L
ISCJB I 10 01 36 14.6–.43 37.42N–.01 26.95E–.02 5–3 3.3,2.9L
DDA I 10 01 36 15.1 37.45N 27.07E 23 3.9L,2.9L
CSEM I 10 01 36 15.1–.10 37.42N 26.96E 5 3.3,2.9L
THE I 10 01 36 15.6 37.46N 27.05E 8–1 3.0L,2.9L
ISC Event type ke.
ATH Error ellipse: s-maj=0.7km s-min=0.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=170.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=63.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=87.0.
ISC I 10 02 47 23.4–.95 36.67N–.02 25.78E–.02 12–10 100 0-4
ISK I 10 02 47 22.4 36.70N 25.87E 5 2.8 ¶16357951
CSEM I 10 02 47 22.7–.18 36.66N 25.84E 5 2.3L
ISCJB I 10 02 47 22.8–.54 36.66N–.02 25.79E–.03 3–5 2.3L
ATH I 10 02 47 22.2 36.66N 25.84E 14–2 3.3
THE I 10 02 47 23.4 36.70N 25.73E 10–1 2.3L
DDA I 10 02 47 31.1 36.91N 26.28E 5 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=135.1.
ATH Error ellipse: s-maj=0.8km s-min=1.0km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.5km az=103.0.
DDA Event type ke.
ISC I 10 11 04 30.1–.92 35.66N–.03 27.43E–.03 14–7 105 0-4
ATH I 10 11 04 28.9 35.65N 27.43E 24–0 3.2 ¶16357956
THE I 10 11 04 29.7 35.65N 27.46E 2–2 2.9L
CSEM I 10 11 04 29.7–.24 35.61N 27.44E 10 3.2
ISCJB I 10 11 04 29.9–.69 35.66N–.04 27.41E–.03 13–4 3.2
ISK I 10 11 04 29.3 35.63N 27.41E 10 3.3
DDA I 10 11 04 30.2 35.66N 27.63E 14 3.3
ISC Event type ke.
ATH Error ellipse: s-maj=1.6km s-min=1.0km az=-1.0.
THE Event type ke. Error ellipse: s-maj=5.1km s-min=0.9km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=3.0km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=2.9km az=152.5.
DDA Event type ke.
ISC I 11 11 38 33.3–.98 37.62N–.02 26.46E–.02 10–8 124 0-3
ATH I 11 11 38 32.4 37.61N 26.52E 25–1 3.1 ¶16357980
ISK I 11 11 38 32.2 37.64N 26.48E 5 3.1L,3.0
CSEM I 11 11 38 33.3–.17 37.63N 26.46E 5 3.0L,3.0
DDA I 11 11 38 34.2 37.68N 26.53E 6 3.1,3.0
THE I 11 11 38 35.0 37.74N 26.58E 14–3 3.0L,3.0
ISC Event type ke.
ATH Error ellipse: s-maj=0.7km s-min=0.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.7km az=110.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=4.6km s-min=0.7km az=71.0.
ISC I 12 03 04 04.5–.97 36.85N–.02 28.09E–.01 14–7 3.8b 584 0-77
HLW I 12 03 04 02.0 37.12N 27.83E 24–14 4.5 ¶15925890
IDC I 12 03 04 01.9–.72 36.81N 28.11E 0 3.9,3.9b
NSSC I 12 03 04 02.5–.72 36.75N 28.01E 0–999 3.9,3.9b
ATH I 12 03 04 03.4 36.92N 28.05E 23–0 4.0,3.9L
ISK I 12 03 04 03.2 36.88N 28.08E 10 3.8L,3.9L
DDA I 12 03 04 04.3 36.90N 28.17E 3 3.9L,3.9L
CSEM I 12 03 04 04.3–.08 36.84N 28.08E 10 3.9L,3.9L
ISCJB I 12 03 04 04.7–.36 36.83N–.01 28.09E–.01 30–3 3.9s,3.8b
NIC I 12 03 04 05.8–.10 37.41N 28.39E 25 4.5b,4.1L
THE I 12 03 04 06.9 36.90N 28.06E 24–2 4.3L,4.1L
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=12.0km az=168.0.
NSSC Error ellipse: s-maj=52.2km s-min=235.3km az=-1.0.
ATH Error ellipse: s-maj=0.4km s-min=0.4km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=7.9.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.5km az=83.0.
ISC I 12 03 08 06.8–1.1 36.92N–.03 28.09E–.02 9–9 44 0-2
ISK I 12 03 08 05.6 36.89N 28.16E 12 3.1 ¶16358009
ISCJB I 12 03 08 06.1–.72 36.87N–.05 28.13E–.04 3–6 3.1
DDA I 12 03 08 06.4 36.87N 28.10E 3 2.7
CSEM I 12 03 08 07.2–.34 36.93N 28.10E 10 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=9.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.1km az=177.0.
ISC I 12 03 20 53.2–.94 36.88N–.02 28.10E–.02 13–8 75 0-2
ISCJB I 12 03 20 52.3–.60 36.82N–.03 28.10E–.03 11–4 ¶16358011
CSEM I 12 03 20 52.9–.19 36.86N 28.11E 15 2.9
DDA I 12 03 20 52.8 36.90N 28.13E 1 2.8
ATH I 12 03 20 52.2 36.87N 28.11E 29–1 3.1
ISK I 12 03 20 52.3 36.89N 28.13E 16 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.1km az=37.2.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.0km az=116.0.
DDA Event type ke.
ATH Error ellipse: s-maj=1.4km s-min=1.7km az=-1.0.
ISC I 16 00 50 48.8–.88 35.45N–.03 27.25E–.02 22–2 151 0-42
IDC I 16 00 50 41.5–1.9 34.29N 28.57E 0 3.2b,3.1 ¶16151519
DDA I 16 00 50 42.8 35.27N 27.21E 5 3.3,3.1
CSEM I 16 00 50 49.4–.22 35.46N 27.22E 22–2 3.6,3.1
ATH I 16 00 50 49.3 35.55N 27.15E 30–0 3.6,3.1
ISCJB I 16 00 50 49.2–.53 35.47N–.03 27.26E–.03 29–4 3.1b,3.1
THE I 16 00 50 50.3 35.44N 27.25E 20–1 3.3L,3.1
ISK I 16 00 50 50.1 35.60N 27.21E 78 3.4,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=110.1km s-min=24.3km az=136.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.4km az=154.0.
ATH Error ellipse: s-maj=1.7km s-min=1.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.0km az=152.6.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=145.0.
ISC I 17 10 49 20.7–1.1 36.65N–.03 28.09E–.03 10–10 39 0-2
ATH I 17 10 49 19.6 36.65N 28.16E 24 2.8 ¶16358144
ISCJB I 17 10 49 20.6–.64 36.63N–.04 28.06E–.03 7–7 2.8
CSEM I 17 10 49 20.8–.23 36.65N 28.04E 10 3.0
DDA I 17 10 49 20.5 36.97N 28.26E 7 3.0
ISK I 17 10 49 20.7 36.70N 28.11E 10 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.7km az=3.4.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=25.0.
DDA Event type ke.
ISC I 19 01 00 05.5–.93 36.99N–.03 27.73E–.03 16–8 33 0-2
DDA I 19 01 00 04.4 36.91N 27.74E 7 2.8 ¶16358198
ISK I 19 01 00 04.8 37.00N 27.72E 5 2.7
CSEM I 19 01 00 05.9–.24 36.97N 27.73E 2 2.8
ISCJB I 19 01 00 06.2–.66 36.99N–.04 27.69E–.04 10–6 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC I 19 14 28 36.1–1.9 36.46N–.10 28.63E–.04 12–11 27 0-1
DDA I 19 14 28 30.4 36.32N 28.23E 7 2.6 ¶16358222
CSEM I 19 14 28 35.9–.65 36.42N 28.61E 8 2.6
ISK I 19 14 28 35.6 36.46N 28.62E 15 2.6
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.0km s-min=6.5km az=21.0.
ISK I 20 09 25 17.8 36.88N 28.07E 3 2.5
¶16358252
ISC I 21 21 42 42.4–1.6 35.33N–.06 27.60E–.04 0–12 45 0-4
DDA I 21 21 42 36.6 34.73N 27.34E 27 2.9 ¶16358310
ISK I 21 21 42 41.5 34.99N 27.42E 85 3.2
CSEM I 21 21 42 45.3–.43 35.32N 27.61E 15 3.1
ATH I 21 21 42 46.3 35.40N 27.48E 32–2 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.3km s-min=5.0km az=154.0.
ATH Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0.
ISC I 21 23 35 33.9–2.6 36.7N–.10 28.27E–.06 61–14 28 0-2
ISCJB I 21 23 35 34.6–1.6 36.77N–.09 28.25E–.08 57–11 ¶16358319
CSEM I 21 23 35 34.5–.87 36.74N 28.27E 55–8 2.7
ISK I 21 23 35 34.5 36.83N 28.16E 62 2.7
DDA I 21 23 35 36.5 37.18N 28.27E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=9.8km az=12.0.
CSEM Event type ke. Error ellipse: s-maj=18.4km s-min=12.3km az=179.0.
DDA Event type ke.
ISC I 23 07 28 29.4–1.1 36.23N–.03 28.68E–.02 30–12 70 0-4
ISK I 23 07 28 26.8 36.11N 28.57E 22 2.7L ¶16358350
CSEM I 23 07 28 28.9–.23 36.23N 28.66E 20 2.9
ATH I 23 07 28 28.7 35.95N 28.69E 30–7 2.9
DDA I 23 07 28 31.8 36.66N 29.03E 9 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=158.0.
ATH Error ellipse: s-maj=10.9km s-min=0.9km az=-1.0.
DDA Event type ke.
ISC I 24 11 51 16.1–1.1 36.98N–.04 27.83E–.03 15–10 36 0-2
ISK I 24 11 51 15.1 36.95N 27.86E 22 2.5 ¶16358366
ISCJB I 24 11 51 16.6–.75 36.95N–.04 27.83E–.04 5–6 2.5
CSEM I 24 11 51 16.7–.41 36.96N 27.83E 8 2.5
DDA I 24 11 51 18.6 37.05N 27.88E 29 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.4km az=10.9.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=6.9km az=173.0.
DDA Event type ke.
ISC I 24 13 16 18.2–1.3 35.29N–.06 27.22E–.04 20–5 55 0-58
THE I 24 13 16 15.3 35.12N 27.36E 0–1 3.1L ¶16396717
IDC I 24 13 16 16.7–2.2 35.56N 27.20E 0 3.4b,3.2
ISCJB I 24 13 16 17.5–1.1 35.28N–.08 27.30E–.05 26–6 3.3b,3.2
CSEM I 24 13 16 17.0–.42 35.23N 27.25E 15 3.3,3.2
ATH I 24 13 16 17.0 35.31N 27.22E 31–0 3.3,3.2
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=1.1km az=139.0.
IDC Error ellipse: s-maj=85.4km s-min=18.8km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=5.0km az=156.3.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=4.2km az=143.0.
ATH Error ellipse: s-maj=1.5km s-min=0.9km az=-1.0.
ISC I 26 00 14 34.1–1.5 35.44N–.06 27.82E–.04 9–11 86 1-6
ISK I 26 00 14 32.2 35.39N 27.72E 5 2.9L ¶16358401
CSEM I 26 00 14 34.3–.43 35.40N 27.86E 10 3.6
ATH I 26 00 14 34.0 35.40N 27.77E 26–1 3.6
DDA I 26 00 14 35.6 35.59N 27.35E 14 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=4.5km az=148.0.
ATH Error ellipse: s-maj=2.4km s-min=2.0km az=-1.0.
DDA Event type ke.
ISC I 28 18 45 55.6–1.1 35.26N–.07 27.61E–.04 18 42 0-4
DDA I 28 18 45 51.2 34.72N 27.64E 24 2.9 ¶16358446
CSEM I 28 18 45 54.8–.45 35.01N 27.69E 10 3.2
ISCJB I 28 18 45 55.4–.87 35.06N–.07 27.66E–.05 18 3.2
ISK I 28 18 45 56.5 35.41N 27.62E 5 3.6
ATH I 28 18 46 01.8 35.45N 27.16E 53–1 3.2
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=5.0km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=3.9km az=159.7.
ATH Error ellipse: s-maj=6.5km s-min=3.6km az=-1.0.
ISC I 30 08 33 55.2–1.1 36.98N–.02 27.91E–.02 5–12 50 0-2

ISCJB	I	30 08 33 55.4–.52	36.94N–.03	27.85E–.03	13–4			¶16358475
CSEM	I	30 08 33 55.9–.23	36.97N	27.85E	15	2.7		
ISK	I	30 08 33 55.8	37.01N	27.88E	8	2.7L,2.7		
ATH	I	30 08 33 55.1	36.98N	27.90E	31–2	2.9,2.7		
DDA	I	30 08 33 55.0	37.02N	27.90E	7	3.0,2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=168.0.							
CSEM	Event type ke. Error ellipse: s-maj=6.2km s-min=4.7km az=160.0.							
ATH	Error ellipse: s-maj=1.8km s-min=2.8km az=-1.0.							
DDA	Event type ke.							
ISC	**I**	**30 10 38 42.5–1.1**	**37.24N–.03**	**26.77E–.03**	**11–10**		**40**	**0-2**
DDA	I	30 10 38 42.0	37.24N	26.78E	8	2.9		¶16358477
CSEM	I	30 10 38 42.9–.25	37.23N	26.78E	2	2.8		
ISK	I	30 10 38 42.8	37.22N	26.81E	6	2.8		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=4.9km az=8.0.							
ATH	**I**	**31 02 59 04.2**	**35.99N**	**27.69E**	**44–1**	**3.0**		
CSEM	I	31 02 59 05.3–.16	36.01N	27.72E	40	3.0		¶600872197
ATH	Error ellipse: s-maj=1.5km s-min=1.8km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.4km s-min=2.8km az=127.0.							
ISC	**I**	**31 08 48 18.9–1.6**	**36.86N–.06**	**26.47E–.04**	**12–11**		**24**	**1-2**
ISCJB	I	31 08 48 18.7–1.3	36.69N–.09	26.56E–.05	31–8			¶16358492
DDA	I	31 08 48 18.5	36.85N	26.48E	7	2.4		
CSEM	I	31 08 48 20.9–.25	37.02N	26.52E	5	2.6		
ISK	I	31 08 48 20.2	37.07N	26.52E	5	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=15.1km s-min=6.8km az=0.3.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.7km s-min=4.2km az=1.0.							
ISC	**I**	**31 16 47 46.4–1.8**	**36.22N–.07**	**27.77E–.04**	**8–14**		**23**	**1-2**
ISK	I	31 16 47 45.1	36.25N	27.85E	3	2.7		¶16358498
CSEM	I	31 16 47 47.4–1.2	36.24N	27.73E	2	2.7		
DDA	I	31 16 47 47.2	36.24N	27.82E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=23.2km s-min=11.3km az=14.0.							
DDA	Event type ke.							
ISC	**II**	**01 02 12 58.7–1.3**	**36.35N–.03**	**27.79E–.03**	**59–11**		**72**	**1-3**
ISCJB	II	01 02 12 57.9–.56	36.37N–.03	27.75E–.04	75–8			¶16494038
DDA	II	01 02 12 57.7	36.35N	27.68E	63	3.0		
ATH	II	01 02 12 57.2	36.36N	27.76E	79–31	2.8L		
ISK	II	01 02 12 58.5	36.38N	27.82E	23	2.8		
CSEM	II	01 02 12 59.0–.22	36.36N	27.76E	60	2.8L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.4km s-min=4.2km az=37.4.							
DDA	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=31.6km s-min=1.6km az=0.0. Analyst: Ch.Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.							
CSEM	Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=134.0.							
ISC	**II**	**01 02 55 27.8–.81**	**36.45N–.03**	**26.80E–.02**	**115–6**		**149**	**1-32**
ISCJB	II	01 02 55 26.5–.38	36.42N–.03	26.81E–.02	120–5	3.3b		¶16397369
ATH	II	01 02 55 27.1	36.48N	26.75E	114–4	3.2L		
IDC	II	01 02 55 27.9–1.6	36.13N	26.93E	114–15	3.6,3.1		
ISK	II	01 02 55 28.7	36.51N	26.87E	30	3.2,3.1		
CSEM	II	01 02 55 28.5–.13	36.46N	26.79E	100	3.2,3.1		
THE	II	01 02 55 29.5	36.46N	26.72E	117–6	3.3L,3.1		
DDA	II	01 02 55 32.2	36.40N	27.10E	50	3.2,3.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=2.9km az=158.4.							
ATH	Event type ke. Error ellipse: s-maj=4.1km s-min=1.1km az=147.0. Analyst: Ch.Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.							
IDC	Error ellipse: s-maj=28.9km s-min=9.6km az=177.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=159.0.							
THE	Event type ke. Error ellipse: s-maj=6.9km s-min=1.1km az=127.0.							
DDA	Event type ke.							
ISC	**II**	**01 11 33 35.6–1.2**	**37.42N–.03**	**26.96E–.04**	**3–14**		**30**	**0-2**
DDA	II	01 11 33 35.4	37.41N	27.07E	7	2.5		¶16494046
CSEM	II	01 11 33 35.9–.47	37.40N	26.93E	2	2.5		
ISK	II	01 11 33 36.5	37.35N	26.92E	6	2.6		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=10.0km s-min=7.4km az=63.0.							
ISC	**II**	**01 16 28 42.3–1.1**	**36.12N–.03**	**28.43E–.03**	**17–9**		**49**	**1-3**
ISK	II	01 16 28 42.0	36.07N	28.43E	17	2.9		¶16494054
ISCJB	II	01 16 28 43.8–.58	36.15N–.04	28.40E–.04	21–7	2.9		
CSEM	II	01 16 28 44.1–.23	36.14N	28.44E	20	3.0		
DDA	II	01 16 28 44.4	36.30N	28.52E	7	3.0		
ATH	II	01 16 28 44.0	35.97N	28.48E	34–5	2.7L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.3km s-min=4.5km az=153.2.							
CSEM	Event type ke. Error ellipse: s-maj=6.5km s-min=4.1km az=156.0.							
DDA	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=7.3km s-min=1.1km az=350.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.							
ISC	**II**	**01 19 39 51.7–1.3**	**36.93N–.05**	**27.59E–.04**	**9–11**		**18**	**0-1**
ISCJB	II	01 19 39 49.0–.97	36.85N–.07	27.72E–.07	11–9			¶16494057
CSEM	II	01 19 39 49.3–.46	36.86N	27.76E	2	2.6		
ISK	II	01 19 39 50.9	36.92N	27.58E	4	2.6		
DDA	II	01 19 39 51.4	36.93N	27.60E	7	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=13.2km s-min=7.5km az=31.7.							
CSEM	Event type ke. Error ellipse: s-maj=10.9km s-min=7.3km az=10.0.							
DDA	Event type ke.							
ISC	**II**	**04 01 03 32.4–1.4**	**36.58N–.04**	**27.16E–.03**	**118–9**		**65**	**0-4**
DDA	II	04 01 03 23.7	36.31N	26.65E	188	3.1		¶16494193
ISK	II	04 01 03 30.2	36.11N	27.08E	22	3.1L		
ISCJB	II	04 01 03 31.9–.71	36.58N–.04	27.14E–.04	120–7	3.1L		
CSEM	II	04 01 03 32.8–.55	36.58N	27.16E	113–6	3.1L		
ATH	II	04 01 03 35.2	36.59N	26.90E	33–6	3.0L		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=4.7km az=149.5.							
CSEM	Event type ke. Error ellipse: s-maj=10.1km s-min=5.7km az=154.0.							
ATH	Event type ke. Error ellipse: s-maj=7.4km s-min=1.7km az=51.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.							
ISC	**II**	**05 18 55 09.6–1.1**	**36.90N–.05**	**28.30E–.03**	**7–10**		**28**	**0-2**
ISK	II	05 18 55 08.1	36.87N	28.32E	4	2.5		¶16494229
ISCJB	II	05 18 55 09.2–1.0	36.9N–.10	28.30E–.04	6–11	2.5		
CSEM	II	05 18 55 09.2–.31	36.88N	28.32E	8	2.7		
DDA	II	05 18 55 09.9	36.96N	28.29E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=17.4km s-min=5.2km az=4.8.							
CSEM	Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=1.0.							
DDA	Event type ke.							
ISC	**II**	**05 21 30 16.0–.94**	**36.43N–.02**	**27.71E–.02**	**17–8**		**59**	**0-2**
ATH	II	05 21 30 14.6	36.47N	27.75E	30–1	2.4L		¶16494236
DDA	II	05 21 30 15.0	36.40N	27.72E	7	2.9		
THE	II	05 21 30 15.8	36.46N	27.74E	10–1	2.7L		
ISK	II	05 21 30 16.5	36.46N	27.70E	6	2.9		
CSEM	II	05 21 30 16.2–.26	36.42N	27.69E	10	2.7L		
ISCJB	II	05 21 30 16.1–.57	36.42N–.03	27.71E–.03	5–5	2.7L		
ISC	Event type ke.							
ATH	Event type ke. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.							
DDA	Event type ke.							
THE	Event type ke.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**06 19 19 11.3–1.1**	**36.91N–.04**	**28.28E–.03**	**7–9**		**31**	**0-2**
DDA	II	06 19 19 11.9	36.98N	28.25E	7	2.7		¶16494277
ISK	II	06 19 19 11.7	36.96N	28.22E	5	2.5		
ISCJB	II	06 19 19 12.3–.66	36.95N–.04	28.27E–.04	3–7	2.5		
CSEM	II	06 19 19 13.0–.44	36.96N	28.24E	8	2.5		
ISC	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=36.7.							
CSEM	Event type ke. Error ellipse: s-maj=10.3km s-min=7.7km az=38.0.							
ISC	**II**	**06 20 35 52.1–1.0**	**36.00N–.04**	**28.55E–.02**	**31–8**		**87**	**0-5**
ATH	II	06 20 35 50.7	36.01N	28.55E	36–1	3.0L		¶16494280
ISK	II	06 20 35 51.0	35.97N	28.56E	7	3.2		
CSEM	II	06 20 35 51.8–.33	35.94N	28.53E	20	3.2		
THE	II	06 20 35 51.4	35.95N	28.58E	10–2	3.2		
DDA	II	06 20 35 52.5	36.08N	28.63E	38	3.1		
ISCJB	II	06 20 35 52.3–.51	35.95N–.04	28.55E–.03	33–27	3.1		
ISC	Event type ke.							
ATH	Event type ke. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.							
CSEM	Event type ke.							
THE	Event type ke.							
DDA	Event type ke.							
ISCJB	Event type ke.							
ISC	**II**	**07 01 59 46.7–1.3**	**35.67N–.04**	**27.94E–.03**	**1–10**		**78**	**1-3**
ATH	II	07 01 59 43.7	35.50N	28.13E	8–5	2.3L		¶16494287
CSEM	II	07 01 59 46.9–.30	35.64N	27.92E	2	2.4L		
ISK	II	07 01 59 46.8	35.48N	27.81E	30	3.1		
THE	II	07 01 59 47.5	35.73N	27.96E	0–1	2.4L		
DDA	II	07 01 59 50.6	35.83N	27.99E	10	2.9		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=5.8km s-min=1.4km az=343.0. Analyst: A.Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.							
CSEM	Event type ke. Error ellipse: s-maj=7.9km s-min=3.9km az=151.0.							
THE	Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=143.0.							
DDA	Event type ke.							
ISC	**II**	**07 04 46 13.0–1.3**	**36.75N–.04**	**28.43E–.03**	**1–11**		**32**	**0-1**
CSEM	II	07 04 46 12.8–.30	36.74N	28.42E	0–2	2.7		¶16494290
DDA	II	07 04 46 12.8	36.75N	28.43E	7	2.7		
ISK	II	07 04 46 12.2	36.72N	28.37E	4	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=7.2km s-min=3.3km az=27.0.							
DDA	Event type ke.							
ISC	**II**	**07 06 33 57.1–1.3**	**36.65N–.06**	**28.09E–.03**	**11–10**		**28**	**0-1**
ISK	II	07 06 33 56.8	36.68N	28.09E	17	2.7		¶16494293
ISCJB	II	07 06 33 57.7–.99	36.62N–.07	28.08E–.05	16–14	2.7		
CSEM	II	07 06 33 57.2–.40	36.63N	28.08E	10	2.9		
DDA	II	07 06 33 57.1	36.63N	28.10E	7	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=11.1km s-min=6.3km az=2.5.							
CSEM	Event type ke. Error ellipse: s-maj=9.5km s-min=5.5km az=14.0.							
DDA	Event type ke.							
ISC	**II**	**07 14 39 10.4–1.6**	**35.30N–.06**	**27.42E–.05**	**10–11**		**31**	**0-2**
DDA	II	07 14 39 10.8	35.34N	27.39E	4	2.8		¶600896259
CSEM	II	07 14 39 11.0–.62	35.30N	27.40E	2	2.4L		
ATH	II	07 14 39 11.4	35.32N	27.34E	16–5	2.4L		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=16.0km s-min=7.5km az=149.0.							
ATH	Event type ke. Error ellipse: s-maj=7.0km s-min=1.2km az=326.0. Analyst: Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.							
ISC	**II**	**07 18 31 42.1–.53**	**36.62N–.03**	**26.94E–.03**	**140–5**	**4.1b**	**567**	**0-79**
HLW	II	07 18 31 39.1	36.85N	26.83E	22–15	4.4L,4.0		¶16009491
BJI	II	07 18 31 39.2	36.60N	26.90E	122	4.4b,4.0		
ISCJB	II	07 18 31 41.2–.13	36.59N–.02	26.95E–.01	146–1	4.1b,4.0		
IDC	II	07 18 31 41.5–.77	36.65N	26.85E	134–10	4.3,3.9		
MOS	II	07 18 31 41.9–1.1	36.63N	26.87E	153	4.4b,3.9		
ATH	II	07 18 31 42.1	36.66N	26.89E	140–31	4.3L,3.9		
ISK	II	07 18 31 42.9	36.72N	26.89E	134	4.2,3.9		
CSEM	II	07 18 31 42.0–.06	36.61N	26.95E	142–1	4.5W,4.3b		
NIC	II	07 18 31 44.8–.10	36.96N	27.35E	96	4.5b,4.1L		
GII	II	07 18 31 45.8–.00	36.29N	27.23E	30	4.0b,3.6		
THE	II	07 18 31 45.1	36.66N	26.92E	134–1	4.1L,3.6		
NEIC	II	07 18 31 45.1	36.66N	26.92E	134	4.6b,3.6		
VIE	II	07 18 31 46.3	36.81N	26.89E	171	3.9b,3.6		
DDA	II	07 18 31 47.2	36.76N	26.88E	42	3.6,3.6		
NSSC	II	07 18 31 52.7–1.7	36.57N	28.33E	0–999	3.6,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=13.5.							
IDC	Error ellipse: s-maj=13.9km s-min=9.4km az=167.0.							
MOS	Error ellipse: s-maj=7.0km s-min=4.9km az=76.6.							
ATH	Event type ke. Error ellipse: s-maj=31.6km s-min=1.0km az=0.0. Analyst: N.A. ML Amplitudes are expressed in micrometres All distances are expressed in km.							
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=17.0.							
GII	Event type ke.							
THE	Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=115.0.							
NEIC	Event type se. After THE.							
VIE	Event type ke.							
DDA	Event type ke.							
NSSC	Error ellipse: s-maj=85.1km s-min=432.2km az=-1.0.							
ISC	**II**	**08 08 28 26.0–1.1**	**35.70N–.04**	**27.63E–.04**	**16–8**		**41**	**0-2**
ISK	II	08 08 28 20.9	35.45N	27.06E	16	3.3		¶16494345
ATH	II	08 08 28 25.5	35.61N	27.63E	26–2	2.5L		
ISCJB	II	08 08 28 26.8–.97	35.74N–.05	27.55E–.05	12–7	2.5L		
CSEM	II	08 08 28 27.1–.40	35.73N	27.53E	15	2.5L		
DDA	II	08 08 28 34.6	36.02N	28.11E	21	3.2L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=5.5km s-min=1.2km az=323.0. Analyst: E.Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.							
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=5.3km az=143.5.							
CSEM	Event type ke. Error ellipse: s-maj=12.4km s-min=6.4km az=136.0.							
DDA	Event type ke.							
ISC	**II**	**08 09 01 18.7–1.0**	**37.03N–.02**	**26.48E–.02**	**12–9**		**56**	**1-2**
DDA	II	08 09 01 17.9	37.02N	26.49E	6	2.7		¶16494346
ATH	II	08 09 01 18.0	37.05N	26.48E	28–2	2.4L		
ISCJB	II	08 09 01 18.1–.59	37.04N–.03	26.46E–.03	3–6	2.4L		
CSEM	II	08 09 01 18.7–.15	37.02N	26.48E	8	3.1		
ISK	II	08 09 01 18.1	37.02N	26.50E	5	3.1		
ISC	Event type ke.							
DDA	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=125.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.							
ISCJB	Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=9.4.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=178.0.							
ISC	**II**	**09 00 47 13.7–1.0**	**36.85N–.03**	**27.46E–.03**	**11–7**		**33**	**0-2**
ISCJB	II	09 00 47 13.2–.86	36.80N–.04	27.44E–.05	4–6			¶16494369
CSEM	II	09 00 47 13.6–.24	36.83N	27.43E	8	2.5		
ISK	II	09 00 47 13.2	36.84N	27.45E	8	2.9		
DDA	II	09 00 47 14.3	36.91N	27.58E	7	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.1km s-min=6.2km az=41.7.							
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=5.0km az=134.0.							
DDA	Event type ke.							
ISC	**II**	**13 21 45 22.6–1.1**	**37.72N–.03**	**26.48E–.02**	**7–10**		**66**	**0-2**
DDA	II	13 21 45 22.9	37.78N	26.47E	6	2.7		¶16494500
ATH	II	13 21 45 22.8	37.75N	26.52E	24–2	2.3L		
ISK	II	13 21 45 22.8	37.73N	26.50E	5	2.7		
CSEM	II	13 21 45 23.6–.24	37.75N	26.48E	2	2.3L		
ISC	Event type ke.							
DDA	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=140.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=4.2km az=54.0.							
ISC	**II**	**14 11 01 32.2–1.8**	**36.55N–.08**	**26.56E–.03**	**6–12**		**28**	**0-2**

DDA II 14 11 01 28.7 36.44N 26.47E 11 2.6 **¶16494512**
ISK II 14 11 01 31.7 36.58N 26.55E 2 2.6L
ISCJB II 14 11 01 32.2–1.4 36.55N–.09 26.56E–.04 3–7 2.6L
CSEM II 14 11 01 32.4–.54 36.53N 26.57E 5 2.6L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.2km s-min=6.0km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=4.7km az=2.0.
ISC II 15 00 49 42.7–1.1 36.80N–.02 26.53E–.02 11–9 74 1-2
DDA II 15 00 49 41.8 36.81N 26.46E 8 2.7 **¶16494524**
CSEM II 15 00 49 42.9–.17 36.79N 26.53E 2 2.1L
ATH II 15 00 49 42.6 36.84N 26.53E 42–2 2.0L
ISK II 15 00 49 42.8 36.80N 26.56E 3 2.8
ISCJB II 15 00 49 43.3–.55 36.78N–.03 26.55E–.03 12–5 2.8
THE II 15 00 49 43.0 36.83N 26.54E 11–1 2.1L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.7km az=161.0.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=137.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.1km az=159.8.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.3km az=79.0.
ISC II 18 15 15 04.4–1.5 35.23N–.06 27.31E–.03 15–8 61 0-3
ISK II 18 15 15 02.5 35.13N 27.17E 5 3.2 **¶16494622**
ISCJB II 18 15 15 03.6–1.2 35.18N–.05 27.33E–.04 3–7 3.2
ATH II 18 15 15 03.7 35.22N 27.33E 19–2 3.0L
CSEM II 18 15 15 04.4–.45 35.19N 27.29E 5 3.0L
DDA II 18 15 15 07.3 35.23N 27.32E 49 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.9km az=159.0.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.3km az=326.0. Analyst: Plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=11.4km s-min=5.3km az=161.0.
DDA Event type ke.
ISC II 19 14 26 43.0–.77 36.69N–.02 27.14E–.02 13–4 85 0-3
CSEM II 19 14 26 42.8–.19 36.69N 27.11E 5 3.1L **¶16494646**
ATH II 19 14 26 42.6 36.68N 27.12E 16–1 3.1L
DDA II 19 14 26 43.1 36.73N 27.25E 3 3.1
ISCJB II 19 14 26 43.1–.41 36.70N–.02 27.15E–.04 8–3 3.1
THE II 19 14 26 43.4 36.69N 27.20E 9–0 3.6L
ISK II 19 14 26 44.1 36.82N 27.10E 10 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.7km az=102.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=1.1km az=71.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=15.4.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=232.0.
ISC II 22 09 49 09.8–.90 36.38N–.03 25.38E–.04 9–4 46 0-2
ISCJB II 22 09 49 09.9–.57 36.39N–.03 25.37E–.07 4–5 **¶601070048**
CSEM II 22 09 49 09.7–.23 36.37N 25.38E 5 2.9L
ATH II 22 09 49 09.7 36.39N 25.44E 10–1 2.1L
THE II 22 09 49 10.1 36.41N 25.40E 4–1 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.5km az=161.7.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=5.3km az=80.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=96.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.4km az=211.0.
ISC II 22 18 06 57.9–.00 37.63N–.02 26.62E–.02 7–10 67 0-2
ATH II 22 18 06 57.4 37.61N 26.63E 13–1 2.5L **¶16494769**
ISK II 22 18 06 57.2 37.63N 26.65E 2 2.8
CSEM II 22 18 06 58.0–.15 37.62N 26.61E 2 2.5L
DDA II 22 18 06 59.0 37.66N 26.73E 7 2.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.0km az=130.0. Analyst: A.ANDREOU ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=3.0km az=21.0.
DDA Event type ke.
ISC II 23 17 47 29.8–1.3 36.87N–.03 28.14E–.03 57–7 72 0-3
ISK II 23 17 47 28.4 36.86N 28.12E 68 3.0 **¶16494822**
ISCJB II 23 17 47 29.1–.56 36.88N–.03 28.12E–.04 66–7 3.0
CSEM II 23 17 47 29.9–.20 36.88N 28.14E 54–4 3.0
DDA II 23 17 47 29.1 36.90N 28.12E 58 2.7
ATH II 23 17 47 30.0 36.86N 27.97E 62–7 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.7km az=5.8.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.7km az=99.0.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=8.2km s-min=1.3km az=86.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 24 04 54 56.5–.93 37.90N–.03 26.66E–.03 15–8 48 0-2
ISCJB II 24 04 54 56.5–.52 37.89N–.02 26.65E–.03 4–5 **¶16494835**
CSEM II 24 04 54 56.5–.25 37.88N 26.63E 5 1.7L
DDA II 24 04 54 56.3 37.89N 26.63E 7 2.7
ATH II 24 04 54 56.4 37.84N 26.63E 24–2 1.7L
ISK II 24 04 54 56.2 37.92N 26.68E 12 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=141.7.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=53.0.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.2km az=145.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 24 07 40 48.2–1.3 35.71N–.04 27.49E–.04 7–11 54 0-4
ATH II 24 07 40 48.5 35.63N 27.52E 27–1 2.8L **¶16494838**
DDA II 24 07 40 49.9 35.82N 27.51E 24 3.1
ISCJB II 24 07 40 50.1–.82 35.75N–.04 27.43E–.04 13–6 3.1
CSEM II 24 07 40 50.2–.19 35.72N 27.42E 15 2.8L
ISK II 24 07 40 50.4 35.84N 27.48E 8 3.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.1km az=317.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.6km az=145.4.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.2km az=142.0.
ISC II 25 21 33 25.8–.55 36.59N–.03 27.17E–.03 136–5 3.9b 398 0-71
MOS II 25 21 33 25.7–1.3 36.63N 27.13E 145 4.1b **¶16168130**
ISCJB II 25 21 33 25.2–.16 36.54N–.02 27.20E–.02 144–2 4.0b
IDC II 25 21 33 25.4–.72 36.54N 27.15E 130–8 4.2,3.8
CSEM II 25 21 33 26.0–.07 36.58N 27.17E 138–1 4.1L,3.8
ATH II 25 21 33 26.7 36.63N 27.10E 131–3 4.1L,3.8
ISK II 25 21 33 26.7 36.66N 27.11E 133 3.5L,3.8
NEIC II 25 21 33 26.6–.27 36.58N 27.15E 138–4 4.5b,3.8
DDA II 25 21 33 27.0 36.70N 27.21E 25 3.6,3.8
NIC II 25 21 33 28.5–.20 36.91N 27.60E 66 4.5b,4.0L
THE II 25 21 33 29.9 36.65N 27.01E 118–3 4.4L,4.0L
GII II 25 21 33 29.1–.11 36.21N 27.31E 32 4.1b,3.5
HLW II 25 21 33 29.9 36.17N 27.40E 40–40 3.9L,3.6
NSSC II 25 21 33 42.2–.56 36.34N 28.87E 23–125 3.2L,3.6
ISC Event type ke.
MOS Error ellipse: s-maj=10.4km s-min=6.4km az=84.7.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=12.1.
IDC Error ellipse: s-maj=12.9km s-min=7.7km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=18.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.2km az=90.0. Analyst: Plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=180.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=0.8km az=91.0.
GII Event type ke.
NSSC Error ellipse: s-maj=21.2km s-min=88.6km az=-1.0.

ISC II 26 03 03 33.2–3.4 36.41N–.08 27.84E–.05 6–25 30 1-2
DDA II 26 03 03 30.6 36.08N 27.56E 28 2.7 **¶16494879**
ISCJB II 26 03 03 33.4–1.4 36.38N–.07 27.83E–.05 9–6 2.7
CSEM II 26 03 03 33.5–.49 36.37N 27.82E 10 2.9
ISK II 26 03 03 33.4 36.41N 27.80E 16 2.9
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=5.6km az=26.1.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=4.3km az=29.0.
ISC II 26 09 30 06.3–1.2 36.56N–.03 28.43E–.02 65–8 92 0-3
ISK II 26 09 30 05.3 36.56N 28.43E 75 3.1 **¶16494888**
ISCJB II 26 09 30 06.1–.50 36.56N–.03 28.40E–.03 67–7 3.1
DDA II 26 09 30 06.9 36.90N 28.53E 6 3.0
ATH II 26 09 30 06.2 36.53N 28.35E 65–3 2.9L
CSEM II 26 09 30 07.0–.16 36.57N 28.41E 60 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=158.5.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.7km az=97.0. Analyst: Ch. Ventouzi ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=155.0.
ISC II 28 02 47 54.3–1.7 36.47N–.06 26.78E–.04 113–16 50 1-3
ISCJB II 28 02 47 54.5–1.1 36.47N–.09 26.76E–.05 103–17 **¶16872193**
CSEM II 28 02 47 55.4–.25 36.46N 26.78E 100 2.9L
ATH II 28 02 47 55.9 36.50N 26.66E 38–4 2.6L
THE II 28 02 47 56.3 36.47N 26.74E 111–6 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=5.3km az=162.1.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.1km az=163.0.
ATH Event type ke. Error ellipse: s-maj=4.8km s-min=1.5km az=119.0. Analyst: Daskalaki ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=6.4km s-min=0.9km az=143.0.
ISC II 28 19 53 07.1–1.4 35.22N–.05 27.88E–.03 15–10 62 1-3
ISK II 28 19 53 03.4 35.01N 27.91E 3 3.5 **¶16494941**
CSEM II 28 19 53 06.6–.37 35.22N 27.90E 2 3.1
ATH II 28 19 53 07.0 35.23N 27.85E 22–2 2.7L
DDA II 28 19 53 29.2 36.54N 28.59E 7 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=4.2km az=165.0.
ATH Event type ke. Error ellipse: s-maj=4.3km s-min=1.2km az=330.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
DDA Event type ke.
ISC III 02 02 34 12.3–.71 35.19N–.04 27.84E–.03 20–6 3.6b 151 1-58
ISK III 02 02 34 08.0 35.04N 27.84E 8 3.5L **¶16484207**
IDC III 02 02 34 09.8–.99 35.26N 27.97E 0 3.6,3.6b
CSEM III 02 02 34 11.6–.27 35.20N 27.81E 10 3.5L,3.6b
THE III 02 02 34 12.9 35.31N 27.82E 2–1 3.5L,3.6b
ISCJB III 02 02 34 12.6–.49 35.16N–.04 27.85E–.03 39–7 3.4b,3.6b
DDA III 02 02 34 15.8 35.50N 28.02E 34 3.4b,3.6b
NSSC III 02 02 36 14.5–4.8 35.30N 32.24E 0–999 3.4b,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=22.8km s-min=14.5km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.1km az=176.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.0km az=7.6.
NSSC Error ellipse: s-maj=96.7km s-min=492.5km az=-1.0.
ISC III 03 18 51 15.5–1.2 36.51N–.04 28.92E–.02 5–9 54 0-2
ISK III 03 18 51 13.9 36.49N 28.93E 5 2.7 **¶16495039**
CSEM III 03 18 51 15.5–.36 36.49N 28.94E 5 2.7
DDA III 03 18 51 15.3 36.48N 28.89E 7 2.7
ISCJB III 03 18 51 15.2–.79 36.48N–.04 28.93E–.04 3–5 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 03 22 26 50.3–1.2 36.72N–.05 27.68E–.03 8–10 29 0-1
DDA III 03 22 26 49.1 36.63N 27.54E 6 **¶16495043**
CSEM III 03 22 26 50.1–.57 36.69N 27.67E 15 2.6
ISCJB III 03 22 26 50.7–.98 36.72N–.05 27.66E–.05 3–8 2.6
ISK III 03 22 26 51.1 36.79N 27.64E 13 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=8.4km az=26.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.3km az=21.9.
ISC III 04 12 53 38.8–1.3 36.89N–.06 28.02E–.03 15–13 20 0-1
CSEM III 04 12 53 39.0–.18 36.88N 28.00E 20 2.5 **¶16495062**
ISK III 04 12 53 39.4 37.00N 27.97E 5 2.5
ISCJB III 04 12 53 39.1–1.5 36.87N–.07 28.01E–.05 19–39 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 05 10 12 05.3–1.0 36.99N–.04 28.26E–.03 9–9 36 0-2
CSEM III 05 10 12 05.2–.26 37.00N 28.26E 10 2.7 **¶16495082**
ISK III 05 10 12 05.0 37.00N 28.25E 13 2.7
DDA III 05 10 12 05.0 36.99N 28.23E 7 2.7
ISCJB III 05 10 12 05.0–.53 36.99N–.04 28.26E–.04 9–5 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
THE III 05 20 17 22.9 36.43N 25.42E 3–1 0.9L
CSEM III 05 20 17 22.9 36.43N 25.42E 3 0.9L **¶601070088**
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.5km az=4.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 06 07 51 34.2–.86 36.57N–.02 25.68E–.02 17–6 86 0-3
ATH III 06 07 51 33.4 36.57N 25.71E 10–2 2.4L **¶16872281**
ISCJB III 06 07 51 33.7–.65 36.56N–.02 25.76E–.04 1–4 2.4L
CSEM III 06 07 51 33.9–.26 36.55N 25.78E 2 2.6L
THE III 06 07 51 34.1 36.58N 25.67E 16–1 2.6L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=206.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=173.6.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=5.3km az=107.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=271.0.
ISC III 08 10 14 42.3–1.5 36.58N–.04 26.63E–.03 116–11 70 1-3
ISCJB III 08 10 14 43.0–.77 36.56N–.04 26.65E–.03 102–10 **¶16495144**
ISK III 08 10 14 42.7 36.64N 26.66E 129 2.4
CSEM III 08 10 14 43.7–.17 36.57N 26.62E 100 2.4
ATH III 08 10 14 43.0 36.57N 26.64E 96–6 3.1L
DDA III 08 10 14 43.4 35.46N 28.19E 3 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.9km az=156.5.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.0km az=155.0.
ATH Event type ke. Error ellipse: s-maj=6.1km s-min=1.3km az=77.0. ML Amplitudes are
expressed in micrometres All distances are expressed in km.
ISC III 10 08 22 28.2–1.0 36.92N–.06 28.30E–.03 10–12 18 0-1
CSEM III 10 08 22 28.9–.36 36.95N 28.27E 2 2.7 **¶16495183**
ISK III 10 08 22 28.9 36.98N 28.24E 5 2.7
DDA III 10 08 22 28.4 36.99N 28.26E 7 2.7
ISCJB III 10 08 22 28.2–.77 36.93N–.08 28.29E–.07 11–12 2.7
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 12 00 33 45.9–1.1 37.92N–.03 26.69E–.03 12–11 28 0-3
ISK III 12 00 33 45.4 37.93N 26.70E 8 2.5 **¶16495229**
ISCJB III 12 00 33 45.8–.66 37.94N–.04 26.71E–.04 9–9 2.5
DDA III 12 00 33 45.6 37.91N 26.65E 7 2.5
CSEM III 12 00 33 46.0–.16 37.92N 26.70E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.6km az=36.2.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=37.0.
ISC III 12 00 57 26.3–1.1 36.38N–.03 26.77E–.04 134–8 238 0-10
ISCJB III 12 00 57 25.8–.26 36.34N–.03 26.75E–.02 143–4 **¶16495230**

CSEM III 12 00 57 27.0–.14 36.37N 26.74E 134–2 3.1L
ATH III 12 00 57 27.3 36.43N 26.67E 127–2 3.1L
ISK III 12 00 57 28.3 36.10N 26.69E 74 2.9L
THE III 12 00 57 29.5 36.42N 26.69E 142–2 3.0L
GII III 12 00 57 31.4–.00 35.78N 27.27E 1–0 3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=16.9.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.4km az=18.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=134.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.6km az=107.0.
GII Event type ke.
ISC III 13 03 44 24.4–1.2 36.58N–.02 28.19E–.02 73–6 156 0-4
ISCJB III 13 03 44 23.6–.38 36.57N–.02 28.17E–.02 78–4 **¶16495275**
DDA III 13 03 44 23.9 36.61N 28.19E 68
ATH III 13 03 44 23.2 36.57N 28.18E 76–2 2.5L
CSEM III 13 03 44 24.6–.13 36.57N 28.19E 70–2 2.8L
ISK III 13 03 44 24.0 36.62N 28.23E 77 3.1
THE III 13 03 44 25.1 36.53N 28.20E 77–2 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=150.0.
ATH Event type ke. Error ellipse: s-maj=2.8km s-min=1.1km az=117.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=151.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.8km az=78.0.
ISC III 13 17 13 02.0–1.3 36.92N–.07 27.61E–.04 10–9 22 0-1
CSEM III 13 17 13 03.2–.62 36.91N 27.60E 2 2.4 **¶16495286**
ISK III 13 17 13 04.3 37.00N 27.53E 9 2.5
DDA III 13 17 13 05.4 37.08N 27.53E 6 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.4km s-min=7.3km az=16.0.
DDA III 14 01 13 40.6 37.80N 26.57E 7
CSEM III 14 01 13 40.6 37.80N 26.57E 7 2.9 **¶601582422**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 04 37 18.5–1.5 35.28N–.06 27.73E–.04 10–12 43 1-3
ISK III 14 04 37 15.7 35.13N 27.67E 4 3.4 **¶16495292**
ATH III 14 04 37 16.5 35.16N 27.92E 10–4 2.2L
CSEM III 14 04 37 18.8–.65 35.29N 27.73E 5 2.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.2km s-min=1.9km az=327.0. Analyst: Orfanogiannaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=16.0km s-min=6.6km az=153.0.
ISC III 15 01 34 07.3–.92 36.97N–.05 28.36E–.04 10 22 0-1
CSEM III 15 01 34 03.9–1.1 37.11N 28.57E 10 2.6 **¶601582476**
DDA III 15 01 34 08.6 36.90N 28.27E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=29.3km s-min=6.5km az=36.0.
THE III 15 07 41 58.5 36.41N 25.40E 5–1 2.2L
CSEM III 15 07 41 58.5 36.41N 25.40E 5 2.2L **¶601070199**
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=211.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 18 12 09 16.5–1.6 36.89N–.06 28.01E–.03 1–13 27 0-2
ISK III 18 12 09 19.8 37.00N 27.96E 8 2.6 **¶16495407**
DDA III 18 12 09 19.2 37.03N 27.99E 7 2.6
CSEM III 18 12 09 20.4–.19 37.04N 27.96E 8 2.6
ISCJB III 18 12 09 20.0–.76 37.03N–.05 27.96E–.03 8–13 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 18 23 25 26.3–1.4 36.50N–.04 26.70E–.03 92–11 71 1-3
ATH III 18 23 25 24.2 36.47N 26.72E 118–5 2.4L **¶16495425**
ISK III 18 23 25 25.3 36.33N 26.64E 28 3.0
ISCJB III 18 23 25 25.7–.65 36.50N–.04 26.69E–.03 96–10 3.0
CSEM III 18 23 25 26.4–.29 36.50N 26.69E 91–5 3.0
DDA III 18 23 25 28.1 36.40N 27.35E 5 3.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.4km az=132.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.6km az=151.4.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=154.0.
ISC III 20 19 47 28.6–1.3 36.85N–.06 27.90E–.03 4–16 22 0-1
ISK III 20 19 47 28.6 36.88N 27.83E 5 2.5 **¶16495481**
DDA III 20 19 47 29.9 36.90N 27.85E 7 2.5
CSEM III 20 19 47 29.9–.44 36.86N 27.84E 5 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=4.6km az=9.0.
ISC III 23 03 19 05.2–1.9 36.4N–.10 28.35E–.04 29–15 32 0-2
CSEM III 23 03 19 02.1–.67 36.21N 28.28E 10 2.3 **¶16495557**
ISK III 23 03 19 03.5 36.31N 28.33E 21 2.5
DDA III 23 03 19 09.6 37.17N 28.34E 7 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=6.1km az=176.0.
ISC III 24 22 59 28.5–1.3 36.22N–.04 28.41E–.03 48–11 46 0-3
ATH III 24 22 59 27.5 36.10N 28.46E 49–13 2.0L **¶16495646**
ISCJB III 24 22 59 28.0–.62 36.21N–.04 28.41E–.04 52–8 2.0L
CSEM III 24 22 59 28.7–.17 36.22N 28.40E 40 2.0L
ISK III 24 22 59 28.2 36.27N 28.37E 28 2.7
DDA III 24 22 59 32.1 36.44N 28.71E 7 2.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=20.8km s-min=1.8km az=347.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.9km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.5km az=148.0.
ISC III 25 12 03 37.6–1.5 36.09N–.04 27.95E–.04 74–11 49 0-3
ATH III 25 12 03 36.8 36.05N 27.91E 78–4 2.3L **¶16495665**
ISCJB III 25 12 03 37.3–.75 36.08N–.05 27.93E–.05 75–8 2.3L
DDA III 25 12 03 38.8 36.30N 28.12E 7 2.3L
CSEM III 25 12 03 38.0–.38 36.09N 27.95E 72–6 2.3L
ISK III 25 12 03 38.3 36.31N 28.03E 89 2.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=10.4km s-min=2.0km az=336.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.3km az=142.6.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=5.1km az=144.0.
ISC III 26 14 51 27.1–1.2 36.42N–.03 28.05E–.02 57–7 132 0-8
ATH III 26 14 51 27.0 36.44N 28.01E 56–3 3.0L **¶16495712**
ISCJB III 26 14 51 26.0–.37 36.40N–.02 28.06E–.03 71–5 3.0L
ISK III 26 14 51 27.4 36.43N 28.00E 26 2.9
CSEM III 26 14 51 27.5–.18 36.39N 28.06E 54–5 3.3L
THE III 26 14 51 28.8 36.41N 28.03E 48–1 3.3L
HLW III 26 14 51 29.6 35.94N 28.11E 14–10 3.7
DDA III 26 14 51 32.0 37.14N 28.22E 5 3.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.3km az=90.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=30.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=127.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=156.0.
ISC III 27 08 16 14.2–.96 37.48N–.03 26.74E–.02 12–7 49 0-2
CSEM III 27 08 16 14.5–.15 37.47N 26.74E 2 2.0L **¶16495725**
ISK III 27 08 16 14.2 37.48N 26.75E 8 2.6
DDA III 27 08 16 14.5 37.50N 26.78E 7 2.6
ATH III 27 08 16 14.1 37.45N 26.75E 4–47 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=6.0.
ATH Event type ke. Error ellipse: s-maj=47.9km s-min=1.1km az=0.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 27 23 43 27.2–.97 36.79N–.02 26.69E–.02 27–9 90 0-3
DDA III 27 23 43 25.0 36.79N 26.62E 7 **¶16495746**
ATH III 27 23 43 25.8 36.81N 26.65E 28–1 2.6L
ISCJB III 27 23 43 26.4–.77 36.80N–.03 26.63E–.04 11–7 2.6L
THE III 27 23 43 26.4 36.83N 26.62E 4–1 2.7L
CSEM III 27 23 43 26.4–.15 36.83N 26.61E 10 2.6L
ISK III 27 23 43 26.2 36.89N 26.61E 10 2.9
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=49.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=143.3.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.3km az=109.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=14.0.
THE III 28 17 20 56.0 36.41N 25.39E 3–1 1.3L
CSEM III 28 17 20 56.0 36.41N 25.39E 3 1.3L **¶601070245**
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=135.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 30 07 42 48.8–1.0 36.02N–.02 27.00E–.02 12–9 128 0-5
ATH III 30 07 42 48.8 35.99N 27.02E 27–2 3.4L **¶16392160**
THE III 30 07 42 49.6 36.00N 27.04E 10–2 3.6L
ISCJB III 30 07 42 49.1–.60 36.00N–.02 26.98E–.03 9–4 3.6L
CSEM III 30 07 42 49.6–.17 36.00N 26.98E 10 3.4L
ISK III 30 07 42 51.3 36.07N 27.14E 5 3.1L
NIC III 30 07 42 55.0–.30 36.14N 27.37E 25 4.1b,3.5L
DDA III 30 07 42 57.1 36.37N 27.51E 40 4.1b,3.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.8km s-min=1.0km az=95.0. Analyst: Koutrakis ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=137.6.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=141.0.
ISC III 31 14 37 28.6–1.1 36.94N–.03 27.58E–.03 9–10 25 0-1
DDA III 31 14 37 27.2 36.90N 27.61E 7 **¶16495883**
ISK III 31 14 37 27.6 36.94N 27.57E 15 2.1
ISCJB III 31 14 37 28.1–.71 36.92N–.04 27.60E–.04 10–15 2.1
CSEM III 31 14 37 28.3–.18 36.94N 27.58E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.4km az=11.6.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=170.0.
ISC III 31 14 50 03.3–1.4 36.80N–.04 27.64E–.03 1–12 28 0-1
DDA III 31 14 50 05.0 36.90N 27.60E 7 **¶16495885**
ISCJB III 31 14 50 05.5–.66 36.88N–.04 27.58E–.05 8–7
CSEM III 31 14 50 05.6–.21 36.91N 27.55E 10 2.6
ISK III 31 14 50 05.2 36.88N 27.56E 10 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=6.1km az=9.3.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.0km az=151.0.
THE IV 01 03 10 04.1 36.42N 25.42E 3–1 1.0L
CSEM IV 01 03 10 04.1 36.42N 25.42E 3 1.0L **¶601070264**
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.3km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 01 22 27 50.3–1.3 35.50N–.03 27.63E–.02 7–9 141 0-42
IDC IV 01 22 27 47.9–1.8 35.08N 27.99E 0 3.3b,3.1 **¶16647947**
ISCJB IV 01 22 27 50.8–.79 35.45N–.03 27.65E–.03 11–5 3.3b,3.1
ISK IV 01 22 27 50.0 35.26N 27.55E 52 3.7,3.1
CSEM IV 01 22 27 51.7–.22 35.51N 27.59E 10 3.1L,3.1
ATH IV 01 22 27 52.5 35.62N 27.56E 31–1 3.1L,3.1
THE IV 01 22 27 52.2 35.57N 27.58E 0–0 3.2L,3.1
DDA IV 01 22 27 54.2 35.77N 27.89E 9 3.2,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=166.0km s-min=23.9km az=139.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.1km az=158.6.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.0km az=157.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=146.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=146.0.
ISC IV 02 05 01 08.7–.96 36.69N–.06 28.95E–.04 25–6 31 0-2
DDA IV 02 05 01 07.7 36.55N 28.77E 7 2.5 **¶16647984**
ISCJB IV 02 05 01 08.8–.58 36.74N–.08 28.96E–.06 25–6 2.5
CSEM IV 02 05 01 08.4–.33 36.71N 28.98E 26–3 2.4
ISK IV 02 05 01 08.3 36.79N 28.98E 20 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=5.9km az=26.8.
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=6.7km az=23.0.
ISC IV 03 21 38 53.9–.91 36.85N–.03 27.55E–.03 13 25 0-1
ISCJB IV 03 21 38 53.8–.66 36.81N–.04 27.54E–.05 13 **¶16648044**
ISK IV 03 21 38 53.7 36.84N 27.51E 10 2.7
DDA IV 03 21 38 54.1 36.82N 27.39E 7 2.5
CSEM IV 03 21 38 54.2–.21 36.83N 27.51E 12 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=5.4km az=161.6.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=153.0.
ISC IV 03 23 42 18.5–.82 36.40N–.02 28.78E–.01 9–5 3.9b 443 0-79
IDC IV 03 23 42 16.9–.64 36.37N 28.80E 0 4.0,3.9 **¶16407595**
THE IV 03 23 42 18.2 36.47N 28.84E 1–1 4.0L,3.9
ISCJB IV 03 23 42 18.5–.42 36.33N–.01 28.89E–.02 19–4 3.8b,3.9
CSEM IV 03 23 42 18.4–.09 36.35N 28.86E 2 4.0L,3.9
ISK IV 03 23 42 18.3 36.49N 28.77E 5 4.0L,3.9
DDA IV 03 23 42 18.4 36.42N 28.77E 22 4.0L,3.9
ATH IV 03 23 42 19.3 36.50N 28.79E 20–1 3.8L,3.9
HLW IV 03 23 42 20.0 36.29N 28.98E 20–6 3.5L,3.9
NIC IV 03 23 42 20.8–.40 36.18N 28.69E 25 4.3b,4.0L
GII IV 03 23 42 22.2–.00 36.25N 28.88E 30 4.2b,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=0.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=35.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=35.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=179.0.
GII Event type ke.
ISC IV 04 13 20 33.8–1.1 36.94N–.03 26.50E–.02 30–13 52 1-2
ATH IV 04 13 20 33.8 37.02N 26.52E 29–1 2.5L **¶600915902**
ISCJB IV 04 13 20 34.7–.60 36.97N–.03 26.51E–.04 19–7 2.5L
DDA IV 04 13 20 34.1 36.97N 26.55E 7 2.8
CSEM IV 04 13 20 34.1–.20 36.99N 26.51E 10 2.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=64.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.9km az=152.1.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=157.0.
ISC IV 04 15 37 53.2–1.1 36.48N–.02 28.78E–.02 4–9 101 0-4
ISK IV 04 15 37 52.7 36.49N 28.80E 8 3.1L,3.1 **¶16648080**
ATH IV 04 15 37 52.5 36.52N 28.80E 18–1 2.7L,3.1
ISCJB IV 04 15 37 53.2–.45 36.49N–.02 28.78E–.02 5–4 2.7L,3.1
CSEM IV 04 15 37 53.3–.13 36.47N 28.82E 8 3.1,3.1
DDA IV 04 15 37 53.1 36.47N 28.76E 22 3.3,3.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.2km az=192.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=172.0.
ISC IV 04 15 40 05.2–1.4 36.51N–.07 28.82E–.04 17–8 24 0-1
DDA IV 04 15 40 05.7 36.45N 28.73E 7 3.0 **¶601583166**
CSEM IV 04 15 40 06.0–.59 36.47N 28.79E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.4km s-min=6.4km az=24.0.
ISC IV 04 15 51 43.3–1.2 36.47N–.06 28.78E–.04 18–4 32 0-2
ISK IV 04 15 51 41.6 36.39N 28.68E 4 2.8 **¶16648081**
CSEM IV 04 15 51 43.5–.61 36.41N 28.76E 10 2.8
DDA IV 04 15 51 44.0 36.49N 28.79E 7 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=6.6km az=27.0.
ISC IV 04 22 02 20.5–1.3 36.50N–.04 28.80E–.03 1–11 46 0-2
ISK IV 04 22 02 19.6 36.51N 28.81E 2 2.8 **¶16648086**
ISCJB IV 04 22 02 20.3–.86 36.48N–.05 28.79E–.04 3–6 2.8
DDA IV 04 22 02 20.4 36.50N 28.78E 7 3.0
CSEM IV 04 22 02 20.6–.40 36.49N 28.82E 5 2.8

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.5km az=25.1.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.1km az=19.0.

ISC	**IV**	**04 22 09 36.9–1.2**	**36.49N–.05**	**28.81E–.03**	**18–7**		**32**	**0-2**
ISK	IV	04 22 09 36.9	36.88N	29.02E	5	2.5		¶16648087
ISCJB	IV	04 22 09 37.4–1.1	36.47N–.06	28.78E–.05	1–8	2.5		
CSEM	IV	04 22 09 37.3–.58	36.46N	28.79E	2	2.5		
DDA	IV	04 22 09 37.3	36.48N	28.79E	7	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.5km az=22.5.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=6.2km az=17.0.

ISC	**IV**	**05 04 18 19.4–1.0**	**36.52N–.03**	**28.82E–.02**	**11–8**		**61**	**0-2**
ISCJB	IV	05 04 18 18.8–.70	36.48N–.04	28.80E–.03	7–4			¶16648126
DDA	IV	05 04 18 18.3	36.47N	28.76E	7	3.1		
ISK	IV	05 04 18 18.5	36.49N	28.83E	10	3.0		
CSEM	IV	05 04 18 19.1–.21	36.49N	28.83E	10	3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=19.8.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.0km az=9.0.

ISC	**IV**	**05 04 56 47.7–1.7**	**36.42N–.09**	**28.82E–.07**	**14**		**17**	**0-1**
CSEM	IV	05 04 56 45.5–1.1	36.23N	28.57E	2	2.6		¶601583184
DDA	IV	05 04 56 46.5	36.33N	28.62E	7	2.6		
ISCJB	IV	05 04 56 48.2–1.5	36.43N–.08	28.88E–.08	14	2.6		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**IV**	**05 08 39 09.4–1.6**	**36.38N–.10**	**28.81E–.06**	**14**		**19**	**0-1**
DDA	IV	05 08 39 09.3	36.39N	28.69E	7	2.7		¶602212545
CSEM	IV	05 08 39 10.8–.63	36.49N	28.80E	2	2.7		
ISCJB	IV	05 08 39 11.1–1.3	36.48N–.08	28.84E–.07	14	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**IV**	**05 20 12 17.4–2.0**	**36.36N–.09**	**28.81E–.04**	**8–11**		**25**	**0-1**
CSEM	IV	05 20 12 16.6–.99	36.29N	28.85E	8	2.6		¶601583222
ISCJB	IV	05 20 12 17.8–1.3	36.35N–.06	28.81E–.05	6–8	2.6		
DDA	IV	05 20 12 21.7	36.61N	28.74E	7	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.7km s-min=8.8km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.3km az=5.7.

ISC	**IV**	**05 23 02 10.5–1.1**	**36.62N–.02**	**28.80E–.02**	**4–8**		**197**	**0-41**
IDC	IV	05 23 02 08.9–1.6	36.07N	29.42E	0	3.2,3.2		¶16596697
THE	IV	05 23 02 09.0	36.87N	29.05E	4–2	3.1L,3.2		
ISK	IV	05 23 02 09.8	36.62N	28.80E	6	3.3L,3.3		
ATH	IV	05 23 02 09.3	36.71N	28.86E	13–1	3.0L,3.3		
DDA	IV	05 23 02 10.1	36.63N	28.76E	22	3.4L,3.3		
CSEM	IV	05 23 02 10.7–.11	36.64N	28.82E	2	3.1L,3.3		
ISCJB	IV	05 23 02 10.4–.50	36.64N–.02	28.84E–.02	5–4	3.2b,3.3		
NIC	IV	05 23 02 12.8–.20	35.91N	28.55E	16	3.5L,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=92.2km s-min=21.4km az=139.0.
THE Event type ke. Error ellipse: s-maj=3.4km s-min=0.7km az=53.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=197.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=11.5.

ISC	**IV**	**06 02 16 58.6–1.2**	**36.48N–.05**	**28.79E–.03**	**16–7**		**32**	**0-1**
ISCJB	IV	06 02 16 58.7–1.0	36.45N–.06	28.77E–.05	3–8			¶16648178
CSEM	IV	06 02 16 58.5–.49	36.43N	28.78E	2	2.4		
DDA	IV	06 02 16 59.0	36.49N	28.77E	7	2.6		
ISK	IV	06 02 16 58.2	36.52N	28.80E	5	2.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.5km az=22.9.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.8km az=18.0.

ISC	**IV**	**06 03 37 16.5–1.3**	**36.49N–.05**	**28.83E–.04**	**20–3**		**32**	**0-2**
CSEM	IV	06 03 37 16.8–.36	36.47N	28.85E	10	2.6		¶16648180
DDA	IV	06 03 37 16.8	36.52N	28.80E	7	2.8		
ISCJB	IV	06 03 37 17.0–.96	36.49N–.06	28.82E–.05	7–6	2.8		
ISK	IV	06 03 37 17.7	36.80N	28.98E	5	2.6		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.2km az=17.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.4km az=23.3.

ISC	**IV**	**06 08 04 07.3–1.1**	**36.48N–.02**	**28.77E–.02**	**1–10**		**135**	**0-4**
THE	IV	06 08 04 06.9	36.50N	28.81E	1–1	2.8L		¶16648189
ISCJB	IV	06 08 04 07.5–.47	36.45N–.02	28.79E–.02	6–4	2.8L		
ISK	IV	06 08 04 07.0	36.49N	28.80E	7	3.3		
CSEM	IV	06 08 04 07.7–.14	36.47N	28.80E	5	2.8L		
ATH	IV	06 08 04 07.0	36.50N	28.80E	20–1	2.9L		
DDA	IV	06 08 04 07.4	36.43N	28.73E	21	3.1		

ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=155.6.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=172.0.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=183.0.

ISC	**IV**	**06 10 52 55.0–1.1**	**36.47N–.03**	**28.78E–.02**	**8–9**		**51**	**0-2**
ISCJB	IV	06 10 52 54.9–.80	36.46N–.04	28.78E–.04	3–6			¶16648197
DDA	IV	06 10 52 55.0	36.48N	28.78E	7	3.0		
ISK	IV	06 10 52 54.9	36.50N	28.79E	8	2.9		
CSEM	IV	06 10 52 55.3–.18	36.47N	28.80E	8	2.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.5km az=24.1.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=13.0.

ISC	**IV**	**06 22 20 14.4–1.3**	**36.57N–.07**	**28.90E–.03**	**14–10**		**28**	**0-2**
ISCJB	IV	06 22 20 12.8–1.3	36.40N–.07	28.83E–.08	5–11			¶16648215
DDA	IV	06 22 20 12.2	36.31N	28.68E	7	2.6		
CSEM	IV	06 22 20 13.8–.63	36.48N	28.83E	8	2.7		
ISK	IV	06 22 20 14.5	36.64N	28.83E	12	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=8.3km az=33.8.
CSEM Event type ke. Error ellipse: s-maj=17.0km s-min=7.3km az=18.0.

ISC	**IV**	**07 02 31 20.7–1.1**	**36.52N–.05**	**28.83E–.03**	**14–7**		**36**	**0-2**
DDA	IV	07 02 31 19.7	36.44N	28.78E	7	2.8		¶16648234
ISCJB	IV	07 02 31 20.0–.99	36.46N–.06	28.80E–.05	4–7	2.8		
CSEM	IV	07 02 31 20.6–.39	36.49N	28.82E	10	2.6		
ISK	IV	07 02 31 20.9	36.56N	28.83E	11	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=6.1km az=10.5.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=5.0km az=11.0.

ISC	**IV**	**07 03 28 14.7–1.2**	**36.46N–.03**	**28.79E–.02**	**1–10**		**63**	**0-2**
DDA	IV	07 03 28 14.6	36.45N	28.78E	7	3.0		¶16648236
ATH	IV	07 03 28 15.0	36.56N	28.79E	17–5	2.6L		
ISCJB	IV	07 03 28 15.1–.57	36.48N–.03	28.81E–.03	4–4	2.6L		
CSEM	IV	07 03 28 15.3–.16	36.47N	28.81E	8	2.9		
ISK	IV	07 03 28 15.1	36.52N	28.81E	10	2.9		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.0km s-min=1.6km az=188.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.0km az=170.2.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.3km az=7.0.

ISC	**IV**	**07 04 41 04.2–1.2**	**36.88N–.05**	**27.69E–.03**	**10–9**		**27**	**0-1**
ISCJB	IV	07 04 41 02.4–1.6	36.76N–.10	27.55E–.07	30–7			¶16648237
CSEM	IV	07 04 41 02.8–.41	36.80N	27.64E	20	2.6		
ISK	IV	07 04 41 06.0	37.18N	27.52E	24	2.1		
DDA	IV	07 04 41 06.1	36.96N	27.49E	6	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.1km s-min=7.9km az=23.2.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=7.3km az=168.0.

ISC	**IV**	**07 07 12 21.7–.76**	**36.42N–.02**	**28.81E–.02**	**11–5**	**3.8b**	**197**	**0-77**
IDC	IV	07 07 12 19.9–.91	36.42N	28.81E	0	4.0,3.9b		¶16417057
DDA	IV	07 07 12 22.0	36.61N	28.82E	12	3.8L,3.9b		
ISCJB	IV	07 07 12 21.4–.51	36.43N–.02	28.82E–.02	9–4	3.7b,3.2s		
ATH	IV	07 07 12 21.5	36.50N	28.80E	17–1	3.5L,3.2s		
CSEM	IV	07 07 12 21.8–.14	36.43N	28.81E	5	3.3,3.2s		
THE	IV	07 07 12 22.5	36.40N	28.77E	2–1	3.8L,3.2s		
ISK	IV	07 07 12 22.7	36.57N	28.74E	7	3.3,3.2s		
HLW	IV	07 07 12 24.7	36.31N	29.08E	33–16	3.1L,3.2s		

ISC Event type ke.
IDC Error ellipse: s-maj=16.9km s-min=14.9km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=162.7.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=189.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=19.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=164.0.

ISC	**IV**	**07 08 01 31.4–1.4**	**36.34N–.05**	**28.82E–.03**	**13–10**		**42**	**0-3**
ISK	IV	07 08 01 29.3	36.30N	28.81E	5	2.7		¶16648241
ISCJB	IV	07 08 01 31.0–.99	36.31N–.05	28.77E–.05	4–6	2.7		
CSEM	IV	07 08 01 31.4–.37	36.33N	28.76E	8	3.0		
DDA	IV	07 08 01 31.7	36.41N	28.75E	7	3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.5km az=6.8.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=6.0km az=5.0.

ISC	**IV**	**07 09 14 47.3–1.2**	**36.49N–.02**	**28.76E–.02**	**1–10**		**94**	**0-3**
ATH	IV	07 09 14 46.9	36.50N	28.80E	19–1	2.8L		¶16648242
DDA	IV	07 09 14 47.2	36.45N	28.74E	24	3.1		
ISCJB	IV	07 09 14 48.6–.75	36.46N–.02	28.78E–.03	15–5	3.1		
CSEM	IV	07 09 14 48.0–.15	36.47N	28.80E	10	3.1		
ISK	IV	07 09 14 48.6	36.60N	28.67E	11	3.1		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=181.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=164.9.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=161.0.

ISC	**IV**	**07 09 33 40.4–1.7**	**36.43N–.08**	**28.75E–.07**	**6–11**		**24**	**0-1**
CSEM	IV	07 09 33 40.8–.77	36.37N	28.73E	2	2.5		¶16648243
DDA	IV	07 09 33 40.9	36.48N	28.81E	7	2.6		
ISCJB	IV	07 09 33 41.2–1.4	36.42N–.07	28.73E–.06	10–7	2.6		
ISK	IV	07 09 33 46.0	36.79N	28.85E	3	2.5		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.1km s-min=6.5km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.6km az=32.0.

ISC	**IV**	**07 17 44 49.7–1.1**	**36.50N–.05**	**28.83E–.03**	**20–3**		**32**	**0-2**
ISK	IV	07 17 44 48.5	36.44N	28.78E	6	2.7		¶16648250
DDA	IV	07 17 44 49.6	36.40N	28.74E	7	2.8		
CSEM	IV	07 17 44 49.5–.48	36.44N	28.81E	8	2.7		
ISCJB	IV	07 17 44 50.9–.95	36.50N–.08	28.85E–.06	16–14	2.7		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**IV**	**07 20 13 26.6–1.2**	**36.50N–.03**	**28.79E–.02**	**7–9**		**49**	**0-2**
CSEM	IV	07 20 13 26.8–.29	36.47N	28.79E	5	2.7		¶16648252
ISK	IV	07 20 13 26.6	36.53N	28.81E	8	2.7		
DDA	IV	07 20 13 27.5	36.53N	28.75E	6	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.8km az=12.0.

ISC	**IV**	**08 01 53 21.9–1.5**	**36.42N–.05**	**28.75E–.03**	**0–11**		**38**	**0-2**
ISK	IV	08 01 53 21.8	36.47N	28.75E	5	2.6		¶16648301
ISCJB	IV	08 01 53 22.5–.95	36.46N–.05	28.78E–.04	0–8	2.6		
CSEM	IV	08 01 53 22.5–.38	36.44N	28.78E	5	2.6		
DDA	IV	08 01 53 22.7	36.46N	28.79E	4	2.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.5km az=21.4.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.0km az=17.0.

ISC	**IV**	**08 03 45 59.8–1.1**	**36.51N–.05**	**28.82E–.03**	**13–8**		**28**	**0-2**
ISK	IV	08 03 45 58.0	36.52N	28.80E	5	2.6		¶16648304
ISCJB	IV	08 03 45 59.1–1.2	36.40N–.06	28.85E–.06	9–7	2.6		
CSEM	IV	08 03 45 59.1–.58	36.42N	28.80E	2	2.7		
DDA	IV	08 03 46 00.3	36.54N	28.79E	6	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.7km az=11.8.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=6.9km az=13.0.

ISC	**IV**	**08 04 16 45.5–1.5**	**36.48N–.05**	**28.78E–.03**	**1–11**		**38**	**0-3**
ISK	IV	08 04 16 43.8	36.46N	28.80E	5	2.8		¶16648305
ISCJB	IV	08 04 16 45.0–1.0	36.44N–.06	28.80E–.04	2–7	2.8		
CSEM	IV	08 04 16 45.3–.35	36.44N	28.80E	5	2.8		
DDA	IV	08 04 16 46.9	36.52N	28.80E	34	3.1		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.5km az=5.3.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=3.7km az=11.0.

ISC	**IV**	**09 02 05 32.5–1.7**	**36.43N–.07**	**28.77E–.05**	**6–11**		**32**	**0-2**
DDA	IV	09 02 05 32.6	36.44N	28.77E	7	2.8		¶16648367
CSEM	IV	09 02 05 32.6–.38	36.43N	28.77E	8	2.7		
ISK	IV	09 02 05 32.8	36.51N	28.77E	10	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=4.3km az=19.0.

ISC	**IV**	**09 20 10 27.7–1.6**	**36.40N–.07**	**28.80E–.04**	**10–10**		**32**	**0-2**
CSEM	IV	09 20 10 27.7–.39	36.37N	28.77E	2	2.7		¶16648387
ISCJB	IV	09 20 10 28.3–1.2	36.41N–.06	28.78E–.07	4–10	2.7		
DDA	IV	09 20 10 28.7	36.48N	28.74E	7	2.6		
ISK	IV	09 20 10 28.8	36.48N	28.82E	7	2.7		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.8km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=6.0km az=38.2.

ISC	**IV**	**09 20 12 51.5–1.6**	**36.41N–.07**	**28.81E–.04**	**5–11**		**32**	**0-2**
ISK	IV	09 20 12 51.8	36.47N	28.80E	8	2.6		¶16648388
ISCJB	IV	09 20 12 52.1–1.3	36.43N–.09	28.80E–.10	5–11	2.6		
CSEM	IV	09 20 12 52.4–.33	36.45N	28.82E	8	2.6		
DDA	IV	09 20 12 52.5	36.45N	28.74E	7	2.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=7.0km az=40.9.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=3.8km az=21.0.

ISC	**IV**	**10 11 11 50.0–.55**	**36.38N–.02**	**28.83E–.02**	**10–3**	**3.8b**	**485**	**0-79**
IDC	IV	10 11 11 48.1–.63	36.41N	28.84E	0	4.0,4.0L		¶16417122
ISK	IV	10 11 11 49.7	36.45N	28.82E	6	4.0L,4.0L		
ISCJB	IV	10 11 11 50.1–.38	36.32N–.01	28.90E–.02	23–3	3.7b,2.9s		
CSEM	IV	10 11 11 50.5–.09	36.37N	28.88E	10	4.0L,2.9s		
DDA	IV	10 11 11 50.5	36.44N	28.74E	27	3.9L,2.9s		
ATH	IV	10 11 11 50.4	36.47N	28.76E	16–0	4.0L,2.9s		
MOS	IV	10 11 11 50.2–1.3	36.23N	28.95E	27	4.4b,2.9s		
NEIC	IV	10 11 11 50.3	36.47N	28.76E	16	4.1L,4.0L		
HLW	IV	10 11 11 51.6	36.15N	28.95E	9–5	3.6L,4.0L		
THE	IV	10 11 11 51.0	36.44N	28.82E	2–1	4.1L,4.0L		
NSSC	IV	10 11 11 54.5–1.0	36.10N	29.13E	37–167	3.2L,4.0L		
GII	IV	10 11 11 54.5–.00	35.92N	29.04E	1–0	3.7,4.0L		

ISC Event type ke.
IDC Error ellipse: s-maj=15.2km s-min=11.6km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=29.5.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=25.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=185.0.
MOS Error ellipse: s-maj=10.7km s-min=5.0km az=102.1.
NEIC Event type se. After ATH.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=141.0.
NSSC Error ellipse: s-maj=24.0km s-min=119.1km az=-1.0.
GII Event type ke.

ISC	**IV**	**10 11 31 08.0–1.0**	**36.44N–.02**	**28.78E–.01**	**8–7**	**3.4b**	**193**	**0-41**
IDC	IV	10 11 31 06.1–1.1	36.32N	28.96E	0	3.8,3.6		¶16417123
DDA	IV	10 11 31 07.8	36.45N	28.75E	23	3.5L,3.6		
ATH	IV	10 11 31 08.0	36.51N	28.77E	19–1	3.0L,3.6		
CSEM	IV	10 11 31 08.3–.12	36.45N	28.77E	2	3.3L,3.6		
ISK	IV	10 11 31 08.2	36.49N	28.80E	7	3.4L,3.6		
THE	IV	10 11 31 08.2	36.48N	28.83E	2–2	3.3L,3.6		
ISCJB	IV	10 11 31 08.5–.45	36.44N–.02	28.80E–.02	10–3	3.4b,3.1s		

ISC Event type ke.
ATH Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.

ISC	**IV**	**10 14 46 05.5–1.1**	**36.46N–.04**	**28.83E–.03**	**14–8**		**37**	**0-2**	
DDA	IV	10 14 46 04.4	36.41N	28.78E	6	2.6L			¶16648430
ISCJB	IV	10 14 46 05.2–1.1	36.42N–.05	28.84E–.05	3–10	2.6L			
CSEM	IV	10 14 46 05.5–.31	36.44N	28.83E	2	2.8			
ISK	IV	10 14 46 05.6	36.50N	28.84E	4	2.8			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=6.7km az=29.2.								
CSEM	Event type ke. Error ellipse: s-maj=6.8km s-min=4.5km az=8.0.								
ISC	**IV**	**10 17 56 19.8–1.2**	**36.48N–.05**	**28.81E–.03**	**14–7**		**40**	**0-2**	
ISCJB	IV	10 17 56 19.1–1.1	36.43N–.05	28.80E–.04	3–7				¶16648431
CSEM	IV	10 17 56 19.3–.28	36.42N	28.79E	2	2.7			
DDA	IV	10 17 56 20.4	36.52N	28.75E	7	2.7			
ISK	IV	10 17 56 20.2	36.52N	28.82E	9	2.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.5km s-min=5.5km az=17.8.								
CSEM	Event type ke. Error ellipse: s-maj=5.8km s-min=3.0km az=14.0.								
ISC	**IV**	**11 08 27 07.2–1.1**	**36.50N–.02**	**28.78E–.02**	**5–9**		**127**	**0-7**	
ISCJB	IV	11 08 27 06.8–.51	36.47N–.02	28.77E–.02	1–5				¶16648490
ATH	IV	11 08 27 06.3	36.49N	28.80E	21–1	2.9L			
CSEM	IV	11 08 27 07.0–.21	36.46N	28.78E	2	2.8L			
ISK	IV	11 08 27 07.7	36.55N	28.79E	9	2.8L			
DDA	IV	11 08 27 07.2	36.47N	28.74E	24	3.4L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=168.4.								
ATH	Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=189.0.								
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=169.0.								
ISC	**IV**	**11 15 41 08.2–1.3**	**35.73N–.03**	**27.42E–.03**	**2–11**		**109**	**0-5**	
ATH	IV	11 15 41 08.5	35.73N	27.48E	27–1	3.4L			¶16648503
ISCJB	IV	11 15 41 09.4–.72	35.85N–.05	27.36E–.05	5–7	3.4L			
CSEM	IV	11 15 41 09.5–.18	35.81N	27.39E	5	3.4L			
THE	IV	11 15 41 09.6	35.76N	27.47E	4–2	3.6L			
ISK	IV	11 15 41 10.3	35.73N	27.45E	87	3.1L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=128.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.3km s-min=3.2km az=142.8.								
CSEM	Event type ke. Error ellipse: s-maj=5.5km s-min=2.4km az=146.0.								
THE	Event type ke. Error ellipse: s-maj=3.0km s-min=0.7km az=139.0.								
ISC	**IV**	**12 01 58 37.4–1.0**	**36.09N–.02**	**27.51E–.02**	**12–8**	**3.5b**	**253**	**1-42**	
IDC	IV	12 01 58 35.0–1.2	36.06N	27.56E	0	3.6,3.6			¶16648544
ATH	IV	12 01 58 36.8	36.10N	27.52E	26–0	3.3L,3.6			
CSEM	IV	12 01 58 37.9–.15	36.09N	27.52E	10	3.3L,3.6			
THE	IV	12 01 58 37.6	36.09N	27.53E	4–2	3.6L,3.6			
ISCJB	IV	12 01 58 38.6–.45	36.11N–.02	27.49E–.02	23–4	3.5b,3.6			
ISK	IV	12 01 58 38.1	36.09N	27.51E	23	3.4L,3.6			
DDA	IV	12 01 58 41.5	36.38N	27.75E	17	3.3L,3.6			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=35.4km s-min=17.9km az=169.0.								
ATH	Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=106.0.								
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=154.0.								
THE	Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=93.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=156.3.								
ISC	**IV**	**12 04 02 18.2–1.1**	**36.37N–.02**	**28.24E–.02**	**46–7**		**208**	**0-8**	
ATH	IV	12 04 02 16.7	36.37N	28.26E	54–1	3.1L			¶16648549
DDA	IV	12 04 02 16.7	36.35N	28.30E	54	3.4			
ISCJB	IV	12 04 02 16.8–.29	36.33N–.02	28.25E–.02	64–5	3.4			
CSEM	IV	12 04 02 18.0–.11	36.32N	28.27E	46–4	3.4L			
THE	IV	12 04 02 18.6	36.35N	28.26E	48–1	3.4L			
ISK	IV	12 04 02 18.0	36.41N	28.19E	29	3.0L			
HLW	IV	12 04 02 21.9	35.86N	28.40E	42–20	3.3L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=144.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=143.6.								
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=146.0.								
THE	Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=119.0.								
ISC	**IV**	**13 08 07 02.0–1.1**	**35.91N–.04**	**27.38E–.05**	**35–4**		**31**	**0-2**	
ATH	IV	13 08 07 00.6	36.06N	27.09E	17–3	2.1L			¶600916144
CSEM	IV	13 08 07 02.5–.27	35.95N	27.21E	20	2.1L			
DDA	IV	13 08 07 08.3	36.39N	27.26E	8	2.7L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=4.2km s-min=1.2km az=145.0.								
CSEM	Event type ke. Error ellipse: s-maj=10.1km s-min=5.0km az=129.0.								
ISC	**IV**	**14 03 54 52.8–1.3**	**36.93N–.05**	**28.26E–.03**	**3–14**		**26**	**0-1**	
ISCJB	IV	14 03 54 53.5–.67	36.98N–.05	28.23E–.05	9–7				¶16648689
CSEM	IV	14 03 54 53.9–.09	37.00N	28.20E	8	2.6			
ISK	IV	14 03 54 53.5	36.99N	28.21E	6	2.6			
DDA	IV	14 03 54 53.2	36.98N	28.23E	7	2.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.1km s-min=5.3km az=36.2.								
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=29.0.								
ISC	**IV**	**14 08 44 09.9–.91**	**36.50N–.04**	**28.80E–.03**	**14**		**34**	**0-2**	
DDA	IV	14 08 44 10.7	36.54N	28.78E	6	2.9L			¶16648692
ISCJB	IV	14 08 44 11.7–.63	36.54N–.05	28.81E–.04	14	2.9L			
ISK	IV	14 08 44 11.6	36.66N	28.88E	23	2.5			
CSEM	IV	14 08 44 11.8–.36	36.59N	28.87E	20	2.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.7km s-min=4.6km az=22.2.								
CSEM	Event type ke. Error ellipse: s-maj=13.1km s-min=7.3km az=21.0.								
ISC	**IV**	**14 11 34 33.5–1.2**	**36.46N–.04**	**28.75E–.03**	**7–14**		**34**	**0-2**	
CSEM	IV	14 11 34 33.7–.27	36.45N	28.75E	2	3.1			¶16648696
ISK	IV	14 11 34 33.3	36.48N	28.78E	8	3.1			
DDA	IV	14 11 34 33.5	36.44N	28.74E	8	2.9L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=6.7km s-min=4.1km az=11.0.								
ISC	**IV**	**14 23 11 18.6–1.3**	**36.16N–.03**	**28.21E–.03**	**21–5**		**62**	**0-2**	
ATH	IV	14 23 11 18.2	36.15N	28.20E	68–3	2.7L			¶16648716
ISK	IV	14 23 11 18.6	36.17N	28.19E	20	2.8			
CSEM	IV	14 23 11 19.5–.17	36.15N	28.22E	60	2.7L			
DDA	IV	14 23 11 20.9	36.77N	28.60E	7	3.0			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=3.5km s-min=1.6km az=79.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=156.0.								
ISC	**IV**	**15 00 08 55.0–1.0**	**36.93N–.05**	**28.29E–.03**	**14**		**22**	**0-1**	
DDA	IV	15 00 08 55.0	37.00N	28.32E	7	2.6			¶16648737
ISCJB	IV	15 00 08 55.1–.70	36.96N–.06	28.32E–.05	14	2.6			
CSEM	IV	15 00 08 55.6–.29	36.95N	28.27E	2	2.6			
ISK	IV	15 00 08 55.2	36.96N	28.24E	12	2.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.8km s-min=4.8km az=31.7.								
CSEM	Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=29.0.								
ISC	**IV**	**15 01 42 22.5–1.3**	**36.45N–.05**	**28.77E–.03**	**6–10**		**42**	**0-3**	
ISK	IV	15 01 42 21.4	36.45N	28.79E	8	3.0			¶16648739
DDA	IV	15 01 42 22.6	36.58N	28.83E	14	2.8			
CSEM	IV	15 01 42 22.5–.27	36.46N	28.79E	10	3.0			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=6.4km s-min=3.8km az=19.0.								
ISC	**IV**	**15 07 20 26.3–1.3**	**36.46N–.05**	**28.84E–.04**	**10–10**		**30**	**0-1**	
ISCJB	IV	15 07 20 26.4–1.2	36.44N–.06	28.76E–.07	3–11				¶16648746
CSEM	IV	15 07 20 26.2–.26	36.42N	28.80E	5	2.3			
DDA	IV	15 07 20 26.8	36.51N	28.78E	7	2.5			
ISK	IV	15 07 20 27.2	36.57N	28.85E	19	2.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=12.5km s-min=5.7km az=40.1.								
CSEM	Event type ke. Error ellipse: s-maj=5.8km s-min=3.6km az=22.0.								
ISC	**IV**	**15 17 22 57.9–.99**	**35.86N–.02**	**27.51E–.02**	**12–8**		**145**	**0-53**	
IDC	IV	15 17 22 55.8–1.6	35.64N	27.73E	0	3.4b,3.3			¶16648772
ATH	IV	15 17 22 57.4	35.87N	27.51E	24–1	3.0L,3.3			
ISK	IV	15 17 22 57.5	35.87N	27.50E	9	3.4,3.3			
THE	IV	15 17 22 58.7	35.81N	27.51E	5–1	3.3L,3.3			
DDA	IV	15 17 22 58.5	35.88N	27.50E	63	3.3,3.3			
CSEM	IV	15 17 22 58.3–.13	35.86N	27.52E	10	3.3L,3.3			
ISCJB	IV	15 17 22 58.7–.51	35.83N–.03	27.53E–.02	23–4	3.4s,3.2b			
ISC	Event type ke.								
ATH	Event type ke.								
THE	Event type ke.								
CSEM	Event type ke.								
ISCJB	Event type ke.								
ISC	**IV**	**16 01 32 20.6–1.1**	**36.90N–.02**	**26.46E–.02**	**23–13**		**106**	**1-2**	
ATH	IV	16 01 32 19.5	36.92N	26.46E	36–3	2.3L			¶16648808
CSEM	IV	16 01 32 20.4–.18	36.92N	26.45E	22–2	2.3L			
THE	IV	16 01 32 20.7	36.91N	26.47E	19–3	2.5L			
ISCJB	IV	16 01 32 20.8–.36	36.89N–.02	26.46E–.03	30–4	2.5L			
ISK	IV	16 01 32 21.1	36.91N	26.45E	39	2.8			
DDA	IV	16 01 32 29.4	37.25N	27.31E	7	2.7			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=3.7km s-min=1.4km az=31.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.1km s-min=2.7km az=154.0.								
THE	Event type ke. Error ellipse: s-maj=3.8km s-min=0.7km az=62.0.								
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=148.8.								
ISC	**IV**	**16 14 28 57.4–1.2**	**36.49N–.03**	**28.75E–.02**	**0–11**		**63**	**0-2**	
ISK	IV	16 14 28 56.3	36.45N	28.78E	6	3.1,2.9L			¶16648831
ISCJB	IV	16 14 28 57.8–.67	36.50N–.04	28.79E–.03	7–5	3.1,2.9L			
CSEM	IV	16 14 28 57.8–.19	36.50N	28.79E	8	2.7L,2.9L			
DDA	IV	16 14 28 57.0	36.44N	28.72E	24	3.0L,2.9L			
THE	IV	16 14 28 57.4	36.54N	28.83E	0–1	2.7L,2.9L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.7km s-min=3.9km az=24.2.								
CSEM	Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=21.0.								
THE	Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=201.0.								
ISC	**IV**	**17 04 34 44.4–1.1**	**36.47N–.02**	**28.76E–.02**	**3–9**		**87**	**0-3**	
ISCJB	IV	17 04 34 44.5–.48	36.47N–.03	28.79E–.03	8–4				¶16648872
CSEM	IV	17 04 34 44.6–.14	36.47N	28.79E	8	2.9			
DDA	IV	17 04 34 44.0	36.44N	28.74E	7	3.1L			
THE	IV	17 04 34 44.1	36.47N	28.80E	2–3	2.4L			
ISK	IV	17 04 34 44.7	36.53N	28.78E	10	2.9			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=10.9.								
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=11.0.								
DDA	Event type ke.								
THE	Event type ke. Error ellipse: s-maj=3.0km s-min=1.1km az=76.0.								
ISC	**IV**	**17 14 13 45.4–1.0**	**36.53N–.02**	**26.66E–.01**	**10–8**	**3.3b**	**172**	**0-42**	
IDC	IV	17 14 13 43.9–1.5	36.51N	26.62E	0	3.4,3.4b			¶16648887
DDA	IV	17 14 13 44.4	36.49N	26.64E	6	3.2,3.4b			
ISK	IV	17 14 13 45.9	36.59N	26.63E	5	3.2L,3.4b			
CSEM	IV	17 14 13 45.9–.11	36.52N	26.62E	8	3.3L,3.4b			
ATH	IV	17 14 13 45.3	36.53N	26.64E	26–1	3.3L,3.4b			
ISCJB	IV	17 14 13 45.5–.52	36.53N–.02	26.62E–.02	6–4	3.3s,3.2b			
THE	IV	17 14 13 46.1	36.55N	26.64E	6–1	3.4L,3.2b			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=63.6km s-min=21.4km az=156.0.								
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=154.0.								
ATH	Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=72.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=153.7.								
THE	Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=8.0.								
ISC	**IV**	**17 16 26 06.2–1.3**	**36.49N–.06**	**28.81E–.04**	**12–11**		**26**	**0-2**	
CSEM	IV	17 16 26 05.9–.40	36.43N	28.77E	5	3.0			¶16648888
ISK	IV	17 16 26 05.5	36.48N	28.73E	4	3.0			
DDA	IV	17 16 26 07.2	36.48N	28.74E	7	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=9.7km s-min=5.0km az=19.0.								
ISC	**IV**	**17 18 27 24.3–1.2**	**36.47N–.04**	**28.75E–.02**	**6–10**		**62**	**0-3**	
DDA	IV	17 18 27 23.9	36.44N	28.72E	6	2.9			¶16648890
ISCJB	IV	17 18 27 24.9–.80	36.50N–.05	28.79E–.04	10–5	2.9			
ISK	IV	17 18 27 24.6	36.52N	28.79E	10	3.1			
CSEM	IV	17 18 27 25.0–.28	36.50N	28.78E	10	3.1			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=4.3km az=21.9.								
CSEM	Event type ke. Error ellipse: s-maj=7.3km s-min=3.8km az=16.0.								
THE	**IV**	**19 18 42 56.8**	**36.40N**	**25.39E**	**4–1**	**1.5L**			
CSEM	IV	19 18 42 56.8	36.40N	25.39E	4	1.5L			¶601070356
THE	Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=121.0.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**IV**	**20 00 06 15.3–1.2**	**36.31N–.03**	**26.60E–.02**	**127–7**		**191**	**1-9**	
ISCJB	IV	20 00 06 15.7–.41	36.35N–.03	26.57E–.02	118–5				¶16881650
ATH	IV	20 00 06 16.1	36.38N	26.54E	112–3	3.1L			
CSEM	IV	20 00 06 16.8–.27	36.34N	26.58E	110–3	3.1L			
THE	IV	20 00 06 18.6	36.36N	26.54E	107–6	3.2L			
HLW	IV	20 00 06 21.9	35.85N	26.83E	33–37	3.9,3.0L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=167.5.								
ATH	Event type ke. Error ellipse: s-maj=3.7km s-min=1.0km az=132.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=12.0.								
THE	Event type ke. Error ellipse: s-maj=6.3km s-min=1.1km az=143.0.								
ISC	**IV**	**20 19 00 56.7–1.1**	**36.91N–.05**	**28.27E–.03**	**8–9**		**25**	**0-1**	
ISCJB	IV	20 19 00 56.9–.71	36.92N–.05	28.28E–.05	11–7				¶16649035
ISK	IV	20 19 00 56.7	36.95N	28.23E	5	2.7			
DDA	IV	20 19 00 57.4	36.99N	28.27E	7	2.6			
CSEM	IV	20 19 00 57.3–.30	36.91N	28.26E	2	2.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.5km s-min=5.8km az=34.5.								
CSEM	Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=24.0.								
ISC	**IV**	**22 21 41 01.2–1.3**	**37.87N–.02**	**26.72E–.03**	**4–11**		**38**	**0-3**	
CSEM	IV	22 21 41 00.7–.22	37.88N	26.66E	5	2.7			¶16649155
ISK	IV	22 21 41 00.1	37.90N	26.68E	8	2.7			
DDA	IV	22 21 41 01.4	37.88N	26.71E	7	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=81.0.								
ISC	**IV**	**22 23 41 35.6–.99**	**37.90N–.02**	**26.80E–.03**	**7–9**		**50**	**0-2**	
ATH	IV	22 23 41 34.5	37.82N	26.70E	22–3	2.0L			¶16649159
ISCJB	IV	22 23 41 35.5–.52	37.92N–.03	26.83E–.04	1–7	2.0L			
CSEM	IV	22 23 41 35.9–.21	37.92N	26.84E	5	2.0L			
DDA	IV	22 23 41 36.3	37.88N	26.83E	6	2.6			
ISK	IV	22 23 41 36.5	37.95N	26.92E	6	2.6			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=12.5km s-min=0.9km az=223.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=144.4.								
CSEM	Event type ke. Error ellipse: s-maj=5.4km s-min=3.2km az=51.0.								
ISC	**IV**	**23 03 04 13.7–.55**	**36.54N–.02**	**28.50E–.02**	**52–6**	**3.8b,3.2s**	**451**	**0-77**	
ISCJB	IV	23 03 04 12.7–.14	36.48N–.01	28.54E–.02	68–3	3.9b,3.2s			¶16596735
DDA	IV	23 03 04 14.0	36.62N	28.49E	55	3.8,3.2s			
ATH	IV	23 03 04 13.8	36.60N	28.43E	53–3	3.7L,3.2s			
IDC	IV	23 03 04 14.1–1.1	36.50N	28.46E	60–14	3.8,3.7			
CSEM	IV	23 03 04 14.3–.08	36.50N	28.52E	53–3	3.9L,3.7			
ISK	IV	23 03 04 14.8	36.70N	28.44E	49	3.9L,3.7			
THE	IV	23 03 04 15.5	36.58N	28.45E	52–2	3.9L,3.7			
NIC	IV	23 03 04 17.2–.20	36.73N	28.87E	32	4.4b,4.0L			
GII	IV	23 03 04 17.8–.00	36.38N	28.91E	30–0	3.5,4.0L			
HLW	IV	23 03 04 19.2	36.00N	28.60E	32–29	4.2,3.9L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=34.0.								
ATH	Event type ke. Error ellipse: s-maj=3.8km s-min=1.0km az=164.0.								
IDC	Error ellipse: s-maj=15.8km s-min=8.3km az=160.0.								
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=43.0.								
THE	Event type ke. Error ellipse: s-maj=2.4km s-min=0.7km az=115.0.								
GII	Event type ke.								
ISC	**IV**	**23 03 24 12.3–1.4**	**36.50N–.07**	**28.37E–.03**	**31–9**		**35**	**0-2**	
CSEM	IV	23 03 24 11.9–.24	36.48N	28.34E	30	2.7			¶16649193
ISK	IV	23 03 24 11.6	36.53N	28.35E	28	2.6			
ISCJB	IV	23 03 24 12.2–1.5	36.50N–.09	28.36E–.08	33–8	2.6			
DDA	IV	23 03 24 12.9	36.83N	28.74E	8	2.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=5.7km s-min=3.1km az=20.0.								
ISCJB	Event type ke. Error ellipse: s-maj=17.6km s-min=7.0km az=32.3.								

ISC	**IV**	**23 23 51 36.9–.87**	**37.00N–.04**	**27.46E–.04**	**17–5**		**24**	**0-1**
ISK	IV	23 23 51 36.6	36.99N	27.48E	17	2.5		¶16649227
DDA	IV	23 23 51 36.4	36.95N	27.59E	7	2.6		
ISCJB	IV	23 23 51 37.2–.64	36.96N–.04	27.53E–.07	8–9	2.6		
CSEM	IV	23 23 51 37.1–.19	36.99N	27.49E	12	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.0km s-min=6.5km az=10.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=4.1km az=139.0.							
ISC	**IV**	**24 11 30 57.0–.91**	**36.98N–.03**	**27.58E–.03**	**14–6**		**34**	**0-2**
DDA	IV	24 11 30 56.8	36.94N	27.59E	7	2.6		¶16649291
ISK	IV	24 11 30 56.7	36.98N	27.58E	9	2.6		
ISCJB	IV	24 11 30 57.1–.56	36.96N–.03	27.61E–.04	6–8	2.6		
CSEM	IV	24 11 30 57.3–.17	36.96N	27.59E	8	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=4.9km az=148.2.							
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=3.5km az=145.0.							
ISC	**IV**	**24 16 01 49.7–1.0**	**36.12N–.02**	**27.84E–.02**	**13–11**		**49**	**0-3**
ATH	IV	24 16 01 48.6	36.09N	27.88E	32–2	2.3L		¶16649298
ISCJB	IV	24 16 01 49.7–.55	36.10N–.03	27.82E–.03	10–5	2.3L		
CSEM	IV	24 16 01 49.9–.18	36.11N	27.84E	15	2.3L		
ISK	IV	24 16 01 49.3	36.12N	27.84E	14	2.6		
DDA	IV	24 16 01 50.1	36.17N	27.83E	7	2.7L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=86.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=141.7.							
CSEM	Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=141.0.							
ISC	**IV**	**25 12 11 07.9–1.1**	**35.94N–.03**	**27.94E–.03**	**53–10**		**228**	**0-9**
ATH	IV	25 12 11 07.8	36.01N	27.88E	60–3	3.3L		¶16596745
DDA	IV	25 12 11 07.7	36.01N	27.85E	53	3.0		
ISK	IV	25 12 11 08.2	36.09N	27.88E	14	3.2L,2.8		
CSEM	IV	25 12 11 08.2–.10	35.92N	27.94E	60	3.4L,2.8		
THE	IV	25 12 11 09.6	36.01N	27.89E	50–2	3.4L,2.8		
GII	IV	25 12 11 12.4–.00	35.60N	28.28E	20–1	3.2,2.8		
NIC	IV	25 12 11 12.2–.20	36.12N	28.43E	86	4.3b,3.9L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=3.1km s-min=1.2km az=38.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=36.0.							
THE	Event type ke. Error ellipse: s-maj=2.4km s-min=0.6km az=91.0.							
GII	Event type ke.							
ISC	**IV**	**26 02 01 24.1–1.0**	**37.84N–.02**	**26.90E–.03**	**13–11**		**42**	**0-2**
ISK	IV	26 02 01 23.5	37.84N	26.89E	5	2.5		¶16649403
DDA	IV	26 02 01 23.7	37.81N	26.87E	7	3.0		
ISCJB	IV	26 02 01 24.0–.56	37.83N–.03	26.90E–.04	9–5	3.0		
CSEM	IV	26 02 01 24.2–.13	37.83N	26.90E	8	3.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=150.8.							
CSEM	Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=72.0.							
ISC	**IV**	**26 17 25 00.0–1.2**	**35.24N–.05**	**27.95E–.03**	**17–11**		**55**	**1-5**
ISK	IV	26 17 24 57.0	34.88N	27.74E	23	3.3		¶16649414
ATH	IV	26 17 24 59.6	35.25N	27.96E	18–3	2.7L		
CSEM	IV	26 17 25 03.3–.48	35.33N	27.84E	20	2.7L		
DDA	IV	26 17 25 32.1	35.03N	27.75E	52	3.5		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=6.2km s-min=1.9km az=330.0.							
CSEM	Event type ke. Error ellipse: s-maj=14.5km s-min=5.7km az=167.0.							
ISC	**IV**	**26 20 26 46.3–1.5**	**35.13N–.06**	**27.98E–.03**	**2–12**		**37**	**1-3**
ISK	IV	26 20 26 35.9	34.26N	28.30E	21	3.8		¶602213052
ATH	IV	26 20 26 48.0	35.21N	27.89E	15–3	2.4L		
CSEM	IV	26 20 26 48.0	35.21N	27.89E	15	2.4L		
DDA	IV	26 20 27 13.7	35.41N	28.16E	26	3.1		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=7.5km s-min=1.7km az=330.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**IV**	**27 00 07 32.2–1.1**	**36.14N–.03**	**27.61E–.03**	**11–10**		**47**	**0-2**
ATH	IV	27 00 07 31.9	36.13N	27.71E	27–2	2.1L		¶16649446
ISCJB	IV	27 00 07 33.0–.55	36.14N–.03	27.69E–.04	13–5	2.1L		
CSEM	IV	27 00 07 33.1–.24	36.15N	27.66E	10	2.1L		
ISK	IV	27 00 07 33.8	36.14N	27.63E	49	2.7		
DDA	IV	27 00 07 35.1	36.30N	27.64E	7	3.0		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.9km s-min=1.3km az=50.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=33.3.							
CSEM	Event type ke. Error ellipse: s-maj=6.8km s-min=4.4km az=126.0.							
ISC	**IV**	**27 02 04 50.5–.95**	**36.34N–.02**	**28.71E–.01**	**13–7**	**3.4b**	**222**	**0-64**
IDC	IV	27 02 04 47.0–1.1	36.33N	28.53E	0	3.7b,3.5		¶16649449
ISCJB	IV	27 02 04 50.0–.46	36.33N–.02	28.75E–.02	9–3	3.5b,3.4s		
ISK	IV	27 02 04 49.0	36.34N	28.69E	2	4.0,3.4s		
CSEM	IV	27 02 04 50.6–.12	36.34N	28.71E	5	3.4L,3.4s		
DDA	IV	27 02 04 50.9	36.35N	28.63E	32	3.5,3.4s		
ATH	IV	27 02 04 50.2	36.36N	28.71E	24–1	3.2L,3.4s		
THE	IV	27 02 04 50.6	36.36N	28.74E	0–1	3.4L,3.4s		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=22.5km s-min=13.9km az=156.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=3.6.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=176.0.							
ATH	Event type ke. Error ellipse: s-maj=3.0km s-min=1.4km az=173.0.							
THE	Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=161.0.							
ISC	**IV**	**27 02 49 27.3–1.6**	**36.38N–.07**	**28.76E–.04**	**9–11**		**30**	**0-1**
CSEM	IV	27 02 49 27.2–.28	36.31N	28.70E	5	2.8		¶16649452
ISK	IV	27 02 49 27.2	36.36N	28.69E	8	2.5		
DDA	IV	27 02 49 28.1	36.55N	28.84E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=21.0.							
ISC	**IV**	**28 07 40 26.5–1.5**	**35.18N–.07**	**27.84E–.05**	**10**		**37**	**1-3**
ATH	IV	28 07 40 25.7	35.13N	27.87E	12–4	2.8L		¶16649504
ISCJB	IV	28 07 40 26.9–1.0	35.21N–.08	27.89E–.05	10	2.8L		
CSEM	IV	28 07 40 27.4–.54	35.21N	27.86E	10	2.8L		
ISK	IV	28 07 40 28.4	35.22N	27.92E	78	3.5		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=7.7km s-min=2.1km az=328.0.							
ISCJB	Event type ke. Error ellipse: s-maj=11.6km s-min=5.4km az=160.4.							
CSEM	Event type ke. Error ellipse: s-maj=14.0km s-min=6.1km az=158.0.							
ISC	**IV**	**28 20 49 48.2–.88**	**35.15N–.03**	**27.87E–.02**	**19–3**	**3.6b**	**270**	**1-49**
IDC	IV	28 20 49 45.4–.91	35.19N	27.90E	0	3.8b,3.7		¶16485889
ISCJB	IV	28 20 49 47.3–.67	35.06N–.02	27.95E–.02	20–6	3.6b,3.7		
DDA	IV	28 20 49 47.8	35.15N	27.91E	28	3.5L,3.7		
GII	IV	28 20 49 47.4–.00	35.23N	27.78E	30	3.5,3.7		
CSEM	IV	28 20 49 48.0–.11	35.12N	27.93E	10	3.3L,3.7		
ISK	IV	28 20 49 49.4	35.33N	27.90E	8	3.3L,3.7		
ATH	IV	28 20 49 49.5	35.33N	27.82E	21–2	3.3L,3.7		
THE	IV	28 20 49 49.2	35.23N	27.77E	0–1	3.5L,3.7		
HLW	IV	28 20 49 49.7	35.19N	27.96E	27–8	3.8,3.0L		
NIC	IV	28 20 49 52.0–.30	34.88N	28.01E	25	4.1b,3.6L		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=17.0km s-min=13.4km az=6.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=39.8.							
GII	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=36.0.							
ATH	Event type ke. Error ellipse: s-maj=4.8km s-min=1.6km az=322.0.							
THE	Event type ke. Error ellipse: s-maj=3.1km s-min=1.2km az=165.0.							
ISC	**IV**	**30 02 25 28.3–1.8**	**37.98N–.06**	**26.86E–.05**	**4–13**		**22**	**0-2**
DDA	IV	30 02 25 28.0	37.90N	26.82E	7	2.6		¶16649638
ISCJB	IV	30 02 25 29.8–.97	38.03N–.06	26.92E–.05	1–17	2.6		
CSEM	IV	30 02 25 29.1–.60	37.98N	26.87E	2	2.4		
ISK	IV	30 02 25 30.5	38.09N	26.96E	5	2.4		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=11.4km s-min=5.1km az=27.9.							
CSEM	Event type ke. Error ellipse: s-maj=13.7km s-min=5.6km az=43.0.							
ISC	**IV**	**30 15 31 51.9–1.4**	**36.44N–.06**	**28.74E–.04**	**9–10**		**30**	**0-2**
CSEM	IV	30 15 31 51.9–.36	36.44N	28.73E	5	2.5		¶16649673
ISK	IV	30 15 31 51.5	36.50N	28.73E	5	2.5		
ISCJB	IV	30 15 31 52.1–1.2	36.44N–.06	28.75E–.06	8–6	2.5		
DDA	IV	30 15 31 52.2	36.52N	28.79E	6	2.6		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.4km s-min=3.7km az=26.0.							
ISCJB	Event type ke. Error ellipse: s-maj=12.4km s-min=5.4km az=31.6.							
ISC	**IV**	**30 22 14 42.6–1.1**	**36.49N–.02**	**28.75E–.02**	**2–10**		**143**	**0-5**
ATH	IV	30 22 14 42.1	36.52N	28.79E	21–1	2.8L		¶16649683
ISCJB	IV	30 22 14 42.3–.50	36.48N–.02	28.77E–.03	5–4	2.8L		
CSEM	IV	30 22 14 42.7–.11	36.48N	28.78E	5	3.0L		
ISK	IV	30 22 14 42.5	36.53N	28.77E	8	3.5		
THE	IV	30 22 14 42.9	36.49N	28.81E	2–2	3.0L		
DDA	IV	30 22 14 43.0	36.47N	28.69E	6	3.2		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.0km s-min=1.2km az=188.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=149.7.							
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=166.0.							
THE	Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=120.0.							
ISC	**V**	**02 21 19 23.4–1.2**	**35.23N–.06**	**27.87E–.04**	**10**		**51**	**1-4**
ATH	V	02 21 19 20.7	35.09N	27.97E	9–3	2.7L		¶16881917
ISCJB	V	02 21 19 22.8–.87	35.17N–.07	27.92E–.05	10	2.7L		
THE	V	02 21 19 23.5	35.09N	27.99E	12–7	2.7L		
CSEM	V	02 21 19 23.2–.51	35.22N	27.88E	5	2.7L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=4.1km s-min=1.4km az=347.0.							
ISCJB	Event type ke. Error ellipse: s-maj=10.3km s-min=4.9km az=160.9.							
THE	Event type ke. Error ellipse: s-maj=12.6km s-min=1.5km az=137.0.							
CSEM	Event type ke. Error ellipse: s-maj=13.1km s-min=6.4km az=160.0.							
ISC	**V**	**03 16 17 22.0–1.6**	**36.38N–.07**	**28.71E–.04**	**11–11**		**26**	**0-1**
ISK	V	03 16 17 20.8	36.33N	28.66E	8	2.7		¶16853176
CSEM	V	03 16 17 21.4–.41	36.31N	28.68E	5	2.7		
DDA	V	03 16 17 24.3	36.59N	28.78E	7	2.5		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=8.6km s-min=4.8km az=13.0.							
ISC	**V**	**03 16 45 24.4–1.1**	**36.53N–.06**	**28.85E–.04**	**19–2**		**26**	**0-2**
CSEM	V	03 16 45 23.4–.57	36.47N	28.80E	5	2.7		¶16853178
ISK	V	03 16 45 24.4	36.83N	28.97E	5	2.7		
DDA	V	03 16 45 24.3	36.67N	28.88E	7	2.4		
ISCJB	V	03 16 45 25.0–1.1	36.56N–.09	28.84E–.08	15–15	2.4		
ISC	Event type ke.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**03 23 45 43.3–1.3**	**36.97N–.03**	**26.36E–.03**	**4–10**		**64**	**1-2**
DDA	V	03 23 45 42.9	36.96N	26.33E	17	3.0		¶16853186
ISK	V	03 23 45 44.6	36.96N	26.47E	16	3.0		
ATH	V	03 23 45 44.5	37.06N	26.45E	32–6	2.5L		
ISCJB	V	03 23 45 45.2–.65	37.00N–.03	26.45E–.03	12–6	2.5L		
CSEM	V	03 23 45 45.3–.17	37.02N	26.45E	15	3.0		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=6.3km s-min=1.1km az=255.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.5km s-min=3.9km az=178.3.							
CSEM	Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=171.0.							
THE	**V**	**04 02 11 59.0**	**36.42N**	**25.43E**	**4–1**	**0.8L**		
CSEM	V	04 02 11 59.0	36.42N	25.43E	4	0.8L		¶601072885
THE	Event type ke. Error ellipse: s-maj=1.7km s-min=0.4km az=58.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
THE	**V**	**04 02 12 59.3**	**36.42N**	**25.42E**	**3–1**	**1.0L**		
CSEM	V	04 02 12 59.3	36.42N	25.42E	3	1.0L		¶601072891
THE	Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=64.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**04 02 21 50.4–1.1**	**36.49N–.02**	**28.76E–.02**	**5–9**		**97**	**0-4**
ATH	V	04 02 21 49.7	36.56N	28.75E	18–1	2.7L		¶16853206
ISK	V	04 02 21 49.8	36.56N	28.77E	5	3.1		
ISCJB	V	04 02 21 50.5–.45	36.50N–.02	28.76E–.03	8–4	3.1		
DDA	V	04 02 21 50.7	36.55N	28.79E	7	3.0		
CSEM	V	04 02 21 50.4–.12	36.51N	28.76E	2	3.1		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=154.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=172.1.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=169.0.							
ISC	**V**	**04 15 00 24.1–1.0**	**35.43N–.04**	**27.31E–.03**	**13–6**		**99**	**0-4**
ATH	V	04 15 00 24.8	35.49N	27.20E	20–1	2.8L		¶16853215
ISK	V	04 15 00 24.3	35.52N	27.00E	13	3.3		
DDA	V	04 15 00 25.8	35.60N	27.09E	30	3.0		
ISCJB	V	04 15 00 26.3–.56	35.56N–.04	27.20E–.03	12–3	3.0		
CSEM	V	04 15 00 26.2–.17	35.55N	27.17E	10	2.8L		
THE	V	04 15 00 26.1	35.50N	27.27E	5–2	3.0L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.8km s-min=0.9km az=325.0.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.4km s-min=3.2km az=147.9.							
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=2.5km az=147.0.							
THE	Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=328.0.							
ISC	**V**	**04 19 56 13.1–1.9**	**36.35N–.09**	**28.71E–.04**	**11–13**		**26**	**0-2**
ISK	V	04 19 56 11.8	36.38N	28.69E	5	2.8		¶16853222
CSEM	V	04 19 56 12.1–.47	36.30N	28.70E	2	2.8		
DDA	V	04 19 56 25.2	36.92N	28.13E	7	2.5		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.8km s-min=4.3km az=3.0.							
DDA	Event type ke.							
ISC	**V**	**05 10 52 40.3–1.5**	**36.44N–.05**	**28.72E–.03**	**1–12**		**30**	**0-1**
ISK	V	05 10 52 35.6	37.09N	29.24E	21	2.6		¶16853243
ISCJB	V	05 10 52 40.9–1.2	36.40N–.05	28.75E–.05	5–8	2.6		
CSEM	V	05 10 52 41.2	36.44N	28.75E	7	2.8		
DDA	V	05 10 52 41.2	36.44N	28.75E	7	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.9km s-min=5.8km az=28.1.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
DDA	**V**	**05 14 24 52.5**	**36.93N**	**27.89E**	**7**	**2.4**		
								¶602861500
DDA	Event type ke.							
ISC	**V**	**06 08 51 46.7–1.7**	**36.56N–.05**	**28.76E–.03**	**4–15**		**42**	**0-2**
ISCJB	V	06 08 51 46.9–1.0	36.49N–.05	28.72E–.04	7–5			¶16853269
CSEM	V	06 08 51 47.2–.24	36.51N	28.74E	12	2.5L		
ISK	V	06 08 51 47.1	36.52N	28.71E	11	2.5L		
DDA	V	06 08 51 47.6	36.60N	28.70E	7	3.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.0km s-min=5.1km az=18.7.							
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=16.0.							
ISC	**V**	**06 18 50 07.9–1.3**	**37.77N–.03**	**26.92E–.03**	**12–13**		**34**	**0-2**
ISCJB	V	06 18 50 07.9–.72	37.75N–.04	26.90E–.05	7–7			¶16853285
DDA	V	06 18 50 07.4	37.72N	26.87E	7	2.6		
ISK	V	06 18 50 07.6	37.77N	26.94E	6	2.7		
CSEM	V	06 18 50 08.3–.16	37.76N	26.94E	10	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.5km s-min=4.5km az=42.6.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=2.8km az=46.0.							
ISC	**V**	**07 04 42 34.9–1.1**	**37.74N–.03**	**26.88E–.03**	**21–2**		**42**	**0-2**
ISCJB	V	07 04 42 34.8–.70	37.73N–.03	26.88E–.05	11–5			¶16853301
ISK	V	07 04 42 34.8	37.77N	26.96E	22	2.7		
DDA	V	07 04 42 35.6	37.76N	26.93E	8	2.7		
CSEM	V	07 04 42 35.1–.35	37.73N	26.91E	15	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=4.2km az=143.4.							
CSEM	Event type ke. Error ellipse: s-maj=8.4km s-min=5.5km az=68.0.							
ISC	**V**	**07 10 07 43.4–1.3**	**36.47N–.04**	**28.78E–.03**	**5–10**		**38**	**0-1**
ISCJB	V	07 10 07 42.6–.98	36.42N–.05	28.78E–.04	3–7			¶16853317
DDA	V	07 10 07 42.9	36.46N	28.77E	7	2.9		
CSEM	V	07 10 07 42.8–.29	36.44N	28.78E	5	2.6		
ISK	V	07 10 07 42.6	36.47N	28.78E	5	2.6		
ISC	Event type ke.							

ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.7km az=15.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.1km az=11.0.
ISC V 07 15 23 56.1–1.1 36.98N–.03 28.21E–.02 6–9 36 0-1
ISK V 07 15 23 55.0 37.10N 28.32E 25 2.5 ¶16853337
CSEM V 07 15 23 56.6–.28 36.99N 28.24E 8 2.5
DDA V 07 15 23 56.5 36.99N 28.20E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.3km az=18.0.
DDA Event type ke.
ISC V 07 18 00 49.6–.81 36.95N–.02 28.22E–.01 6–5 4.1b,3.1s 514 0-76
IDC V 07 18 00 48.8–.61 37.03N 28.26E 0 4.0,4.0b ¶16709108
DDA V 07 18 00 48.5 36.91N 28.15E 24 3.5,4.0b
ISCJB V 07 18 00 49.2–.36 36.98N–.01 28.23E–.01 10–2 4.2b,3.1s
CSEM V 07 18 00 49.9–.09 36.98N 28.22E 5 4.7b,3.1s
ATH V 07 18 00 49.5 37.00N 28.21E 22–1 3.7L,3.1s
ISK V 07 18 00 49.0 37.02N 28.17E 5 4.0L,3.1s
NEIC V 07 18 00 50.2 36.97N 28.25E 1 4.5b,4.0L
THE V 07 18 00 50.3 36.98N 28.20E 0–1 4.0L,4.0L
NIC V 07 18 00 52.0–.50 36.16N 27.66E 27 4.6b,4.3L
HLW V 07 18 00 59.9 36.16N 28.68E 12–17 3.8L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=12.7km az=119.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=13.8.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=15.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=255.0.
NEIC Event type se. After THE.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=302.0.
ISC V 08 06 50 24.3–.34 36.68N–.01 27.22E–.01 17–1 5.1b,4.6s 1903 0-161
BEO V 08 06 50 14.6 36.35N 28.36E 0 5.1b,4.6s ¶16499298
BJI V 08 06 50 21.5 36.60N 27.30E 13 5.2b,5.0b
IDC V 08 06 50 21.4–.41 36.67N 27.22E 0 4.8,4.8b
ISK V 08 06 50 22.3 36.70N 27.12E 6 5.1L,4.8b
ISCJB V 08 06 50 23.7–.23 36.65N–.01 27.23E–.01 26–1 5.0b,4.6s
CSEM V 08 06 50 23.5–.06 36.63N 27.26E 12 5.2b,5.2W
NIC V 08 06 50 23.8–.40 35.94N 26.93E 81 5.0b,4.7L
PDG V 08 06 50 23.2–.62 36.72N 27.27E 13–1 4.8L,4.7L
ATH V 08 06 50 23.2 36.69N 27.18E 22–0 4.9L,4.7L
NEIC V 08 06 50 24.3 36.70N 27.24E 11 5.2L,5.1L
MOS V 08 06 50 24.3–.96 36.70N 27.26E 27 5.2b,4.5s
GCMT V 08 06 50 24.3–.20 36.57N 27.36E 13–0 5.2W,4.5s
THE V 08 06 50 24.7 36.70N 27.24E 10–0 5.3L,4.5s
HLW V 08 06 50 25.6 36.46N 27.31E 32–25 4.4L,4.3
DDA V 08 06 50 59.5 36.86N 27.26E 18 4.9L,4.3
ISC Event type fe.
BEO Event type ke.
IDC Error ellipse: s-maj=10.4km s-min=8.1km az=157.0.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.4km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=13.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.1km az=0.0.
ATH Event type ke. Error ellipse: s-maj=0.7km s-min=0.3km az=69.0.
NEIC Event type fe. Felt [V] at Kos and [IV] at Kalymnos. Also felt at Antimacheia, Kardamaina, Kefalos, Lakkion, Pythagoreion, Rodos and Symi. Felt [III] at Bodrum and [II] at Soke, Turkey. Also felt at Aydin, Datca and Marmaris. After THE. Moment Tensor Solution. s15 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.31 $M_{\theta\theta}$4.29 $M_{\phi\phi}$-0.99 $M_{r\theta}$0.93 $M_{\theta\phi}$2.73 $M_{\phi r}$0.47 Best double couple: NP1:ϕ_s70.00000°,δ38.00000°,λ-85.00000°. NP2:ϕ_s244.00000° ,δ52.00000°,λ-94.00000°. Principal axes: T 5.5800,Plg7.0000°,Azm337.0000° ; N -2.1400,Plg3.0000°,Azm247.0000°; P -3.4300,Plg83.0000°,Azm132.0000° M_o4.90000×10^{16}
MOS Error ellipse: s-maj=4.1km s-min=2.5km az=99.2.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c113; s104,c196; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.02 $M_{\theta\theta}$0.65±.01; $M_{\phi\phi}$0.05±.01; $M_{r\theta}$0.44±.04; $M_{\theta\phi}$0.37±.01; $M_{\phi r}$0.15±.03; Best double couple: NP1:ϕ_s248.00000°,δ61.00000° ,λ-86.00000°. NP2:ϕ_s60.00000°,δ30.00000°,λ-97.00000°. Principal axes: T 0.9580,Plg15.0000°,Azm335.0000°; N -0.1190,Plg4.0000°,Azm66.0000° ; P -0.8390,Plg74.0000°,Azm169.0000° M_o0.89900×10^{17}
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=136.0.
ISC V 08 06 59 37.6–.78 36.74N–.02 27.15E–.02 10–5 3.5b 155 0-42
IDC V 08 06 59 35.8–1.2 36.19N 27.63E 0 3.4b,3.3 ¶16709145
DDA V 08 06 59 35.4 36.70N 27.13E 2 3.4L,3.3
ISK V 08 06 59 36.8 36.77N 27.13E 7 3.3L,3.3
ATH V 08 06 59 36.3 36.74N 27.19E 20–1 3.3L,3.3
ISCJB V 08 06 59 37.3–.39 36.75N–.02 27.14E–.03 9–3 3.4b,3.3
THE V 08 06 59 37.5 36.73N 27.22E 1–2 3.6L,3.3
CSEM V 08 06 59 37.1–.11 36.73N 27.13E 5 3.3L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=42.8km s-min=14.3km az=159.0.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=27.8.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=285.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=145.0.
ISC V 08 07 01 07.9–.83 36.75N–.02 27.20E–.03 11–6 45 0-1
DDA V 08 07 01 05.0 36.65N 27.13E 7 2.7 ¶16853359
ATH V 08 07 01 07.6 36.69N 27.20E 17–2 2.7L
CSEM V 08 07 01 07.9–.24 36.73N 27.19E 5 2.7L
ISK V 08 07 01 07.7 36.75N 27.13E 4 2.8
ISCJB V 08 07 01 08.1–.46 36.73N–.02 27.21E–.05 10–4 2.8
ISC Event type ke.
ATH Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 08 07 04 28.3–.80 36.71N–.02 27.23E–.02 15–5 76 0-2
ISCJB V 08 07 04 28.9–.42 36.72N–.02 27.22E–.04 8–4 ¶16853361
CSEM V 08 07 04 28.7–.17 36.70N 27.23E 5 3.0L
ISK V 08 07 04 28.6 36.71N 27.27E 5 3.3L
THE V 08 07 04 29.0 36.71N 27.21E 10–1 3.0L
DDA V 08 07 04 29.7 36.88N 27.31E 20 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=178.2.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=91.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=265.0.
ISC V 08 07 06 14.3–.69 36.70N–.02 27.14E–.02 16–4 3.7b 214 0-42
DDA V 08 07 06 12.2 36.67N 27.15E 20 3.7L ¶16709146
ATH V 08 07 06 12.7 36.71N 27.15E 24–0 3.8L
IDC V 08 07 06 12.0–1.0 36.69N 27.27E 0 3.7,3.7b
ISK V 08 07 06 13.2 36.74N 27.13E 5 3.5L,3.7b
CSEM V 08 07 06 13.8–.11 36.70N 27.14E 8 3.8L,3.7b
ISCJB V 08 07 06 13.6–.34 36.72N–.02 27.13E–.02 11–2 3.6b,3.7b
THE V 08 07 06 14.1 36.73N 27.21E 3–2 3.8L,3.7b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=75.0.
IDC Error ellipse: s-maj=24.2km s-min=13.1km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=141.4.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=237.0.
ISC V 08 07 15 57.0–.72 36.71N–.02 27.17E–.02 11–4 3.5b 171 0-42
IDC V 08 07 15 54.7–1.5 36.51N 27.34E 0 3.6,3.6b ¶16709148
DDA V 08 07 15 54.0 36.65N 27.13E 11 3.6L,3.6b
ATH V 08 07 15 55.5 36.73N 27.16E 21–1 3.6L,3.6b
THE V 08 07 15 56.3 36.73N 27.19E 0–1 3.8L,3.6b
ISK V 08 07 15 56.1 36.73N 27.17E 13 3.2L,3.6b
ISCJB V 08 07 15 56.3–.37 36.73N–.02 27.14E–.03 10–3 3.4b,3.6b
CSEM V 08 07 15 56.5–.11 36.73N 27.15E 10 3.6L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=34.6km s-min=21.3km az=150.0.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=1.0km az=217.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=278.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=24.1.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=147.0.
ISC V 08 07 28 52.7–.79 36.70N–.02 27.22E–.02 18–4 73 0-2
DDA V 08 07 28 52.8 36.71N 27.25E 7 2.6 ¶16853366
ATH V 08 07 28 52.1 36.68N 27.20E 23–1 2.2L
ISK V 08 07 28 53.4 36.72N 27.29E 13 3.1
THE V 08 07 28 53.2 36.69N 27.28E 4–3 2.6L
CSEM V 08 07 28 53.0–.18 36.69N 27.24E 12 2.2L
ISCJB V 08 07 28 53.3–.42 36.69N–.02 27.26E–.04 10–3 2.2L
ISC Event type ke.
ATH Event type ke.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 08 07 34 16.2–.82 36.71N–.02 27.19E–.03 17–5 53 0-2
ISCJB V 08 07 34 16.9–.43 36.70N–.02 27.22E–.05 8–3 ¶16853368
ATH V 08 07 34 16.1 36.67N 27.13E 19–1 2.2L
DDA V 08 07 34 16.7 36.72N 27.24E 8 2.5
CSEM V 08 07 34 16.6–.12 36.70N 27.18E 8 2.2L
ISK V 08 07 34 16.5 36.73N 27.19E 5 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.6km az=6.2.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=241.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=93.0.
ISC V 08 08 30 56.7–.79 36.78N–.01 27.20E–.02 11–5 3.3b 155 0-42
IDC V 08 08 30 55.0–1.5 36.96N 27.28E 0 3.4,3.4b ¶16709153
ATH V 08 08 30 56.5 36.72N 27.21E 21–1 3.3L,3.4b
ISCJB V 08 08 30 57.4–.40 36.75N–.02 27.16E–.03 8–3 3.3b,3.4b
DDA V 08 08 30 57.6 36.81N 27.21E 26 3.1,3.4b
ISK V 08 08 30 57.1 36.79N 27.14E 3 3.1L,3.4b
CSEM V 08 08 30 57.3–.14 36.75N 27.14E 2 3.3L,3.4b
THE V 08 08 30 57.5 36.73N 27.23E 4–4 3.4L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=40.5km s-min=17.7km az=149.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=19.6.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=116.0.
THE Event type ke. Error ellipse: s-maj=4.2km s-min=1.2km az=249.0.
ISC V 08 09 58 08.6–.88 36.91N–.03 28.85E–.03 9–8 29 0-2
ISK V 08 09 58 05.0 36.58N 28.54E 6 2.7 ¶16853380
DDA V 08 09 58 05.9 36.99N 28.72E 7 2.8
CSEM V 08 09 58 07.9–.41 36.87N 28.83E 2 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=8.5km az=177.0.
ISC V 08 10 34 21.7–.78 36.73N–.02 27.18E–.02 13–5 107 0-3
DDA V 08 10 34 20.9 36.77N 27.15E 3 3.2L ¶16853385
ATH V 08 10 34 20.4 36.71N 27.18E 24–1 2.9L
CSEM V 08 10 34 21.8–.15 36.73N 27.17E 5 2.9L
ISK V 08 10 34 21.9 36.76N 27.21E 7 3.1
ISCJB V 08 10 34 21.9–.42 36.74N–.02 27.19E–.03 8–3 3.1
THE V 08 10 34 21.4 36.72N 27.25E 1–1 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=69.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.3km az=92.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=21.3.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=229.0.
ISC V 08 14 51 26.6–1.4 36.86N–.05 27.90E–.03 4–15 24 0-1
ISK V 08 14 51 29.4 36.99N 27.75E 3 2.8 ¶16853391
DDA V 08 14 51 29.2 36.98N 27.77E 7 2.8
CSEM V 08 14 51 30.2–.39 36.98N 27.77E 2 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.6km az=145.0.
ISC V 08 15 24 03.4–.88 36.85N–.02 27.52E–.02 12–7 107 0-3
DDA V 08 15 24 02.3 36.81N 27.49E 9 3.1L ¶16853395
ISCJB V 08 15 24 03.6–.42 36.87N–.02 27.54E–.03 5–4 3.1L
ISK V 08 15 24 03.4 36.92N 27.55E 10 3.1
ATH V 08 15 24 03.1 36.82N 27.51E 32–1 2.8L
CSEM V 08 15 24 03.8–.18 36.87N 27.51E 5 3.1
THE V 08 15 24 03.1 36.87N 27.57E 2–3 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.5km az=150.3.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.3km az=230.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.1km az=134.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=0.7km az=168.0.
ISC V 08 16 35 26.4–1.2 36.86N–.02 27.53E–.02 11–10 57 0-3
ISK V 08 16 35 25.6 36.84N 27.53E 2 2.8 ¶16853399
ISCJB V 08 16 35 26.6–.53 36.86N–.03 27.58E–.03 3–6 2.8
ATH V 08 16 35 26.1 36.86N 27.56E 28–3 2.6L
CSEM V 08 16 35 26.6–.18 36.84N 27.55E 2 2.8
DDA V 08 16 35 26.6 36.85N 27.58E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=136.9.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.1km az=239.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=4.0km az=86.0.
ISC V 08 17 00 57.9–.86 36.87N–.02 27.53E–.02 16–7 91 0-3
ATH V 08 17 00 56.5 36.87N 27.54E 30–1 2.9L ¶16853400
THE V 08 17 00 57.6 36.86N 27.55E 3–4 3.2L
ISK V 08 17 00 57.4 36.89N 27.55E 12 3.0L
DDA V 08 17 00 57.9 36.88N 27.58E 7 2.9
CSEM V 08 17 00 57.8–.10 36.87N 27.54E 12 2.9
ISCJB V 08 17 00 57.7–.45 36.87N–.02 27.53E–.03 14–4 2.9
ISC Event type ke.
ATH Event type ke.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
THE V 09 00 25 45.3 36.63N 25.68E 12–9 1.6L
CSEM V 09 00 25 45.2–.13 36.62N 25.69E 10 1.6L ¶16882042
ATH V 09 00 25 45.2 36.63N 25.69E 16–6 1.5L
THE Event type ke. Error ellipse: s-maj=9.9km s-min=0.4km az=271.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=106.0.
ATH Event type ke. Error ellipse: s-maj=6.9km s-min=1.3km az=139.0.
ISC V 09 00 25 51.5–1.1 36.37N–.05 28.73E–.03 32 37 0-2
CSEM V 09 00 25 47.8–.59 36.19N 28.66E 2 3.0 ¶16853409
ISK V 09 00 25 48.9 36.31N 28.73E 18 3.0
ISCJB V 09 00 25 50.9–.85 36.28N–.07 28.66E–.07 32 3.0
DDA V 09 00 25 53.6 36.49N 28.80E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=8.7km az=156.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=7.7km az=2.9.
ISC V 09 01 17 25.5–1.5 36.68N–.04 26.85E–.03 134–10 77 1-3
ISCJB V 09 01 17 26.0–.72 36.64N–.04 26.85E–.04 129–8 ¶16853410
CSEM V 09 01 17 26.0–.33 36.65N 26.84E 131–4 3.0
ISK V 09 01 17 26.9 36.71N 26.92E 125 3.0
ATH V 09 01 17 28.1 36.67N 26.66E 29–6 2.4L
DDA V 09 01 17 33.1 37.15N 27.20E 35 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.4km az=142.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.1km az=137.0.
ATH Event type ke. Error ellipse: s-maj=7.1km s-min=1.8km az=29.0.
ISC V 09 03 52 16.4–1.4 35.14N–.04 27.87E–.03 8–9 3.6b 147 1-65
DDA V 09 03 52 12.4 34.77N 27.70E 26 3.6 ¶16709228
IDC V 09 03 52 14.9–.90 35.24N 28.00E 0 3.7b,3.6
ATH V 09 03 52 16.4 35.12N 27.92E 14–3 3.1L,3.6
ISCJB V 09 03 52 17.7–.94 35.08N–.03 27.97E–.03 27–8 3.6b,2.8s
ISK V 09 03 52 18.1 35.38N 27.94E 5 3.4,2.8s
CSEM V 09 03 52 18.3–.30 35.26N 27.92E 2 3.2L,2.8s
THE V 09 03 52 18.8 35.29N 27.84E 4–3 3.2L,2.8s
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=13.4km az=2.0.
ATH Event type ke. Error ellipse: s-maj=5.0km s-min=1.7km az=322.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=177.2.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=3.6km az=169.0.
THE Event type ke. Error ellipse: s-maj=4.2km s-min=1.4km az=324.0.

ISC	**V**	**09 07 24 23.8–1.9**	**35.10N–.07**	**27.94E–.04**	**0–12**		**33**	**1-3**
ATH	V	09 07 24 24.0	35.06N	27.90E	19–5	2.3L		¶600916829
CSEM	V	09 07 24 24.0–.53	35.04N	27.94E	2	2.3L		
DDA	V	09 07 24 31.8	35.51N	28.32E	25	3.1		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=7.1km s-min=1.8km az=328.0.							
CSEM	Event type ke. Error ellipse: s-maj=12.7km s-min=6.6km az=155.0.							
ISC	**V**	**09 09 24 33.2–.83**	**36.72N–.02**	**27.31E–.03**	**12–6**		**54**	**0-2**
ISCJB	V	09 09 24 33.5–.43	36.71N–.02	27.30E–.04	11–3			¶16853417
CSEM	V	09 09 24 33.5–.18	36.73N	27.25E	15	2.4L		
ATH	V	09 09 24 33.4	36.69N	27.14E	20–1	2.4L		
ISK	V	09 09 24 33.1	36.77N	27.28E	20	2.8		
DDA	V	09 09 24 37.7	36.91N	27.49E	19	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=3.5km az=22.1.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=3.6km az=102.0.							
ATH	Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=252.0.							
DDA	Event type ke.							
ISC	**V**	**09 19 54 48.5–.88**	**36.85N–.02**	**27.22E–.03**	**10–7**		**60**	**0-2**
ATH	V	09 19 54 47.5	36.79N	27.24E	20–3	2.4L		¶16853434
ISK	V	09 19 54 47.2	36.86N	27.19E	5	2.8		
ISCJB	V	09 19 54 48.4–.49	36.84N–.02	27.22E–.04	5–4	2.8		
CSEM	V	09 19 54 48.5–.20	36.84N	27.24E	5	2.4L		
DDA	V	09 19 54 49.1	36.86N	27.29E	7	3.0		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=4.1km s-min=1.2km az=241.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=9.6.							
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=98.0.							
ISC	**V**	**10 01 18 21.5–.97**	**36.50N–.02**	**28.79E–.02**	**11–8**		**65**	**0-2**
ATH	V	10 01 18 20.4	36.49N	28.78E	20–1	1.6L		¶16853444
ISCJB	V	10 01 18 21.1–.46	36.49N–.03	28.78E–.03	6–4	1.6L		
DDA	V	10 01 18 21.2	36.53N	28.78E	7	2.8		
CSEM	V	10 01 18 21.3–.16	36.50N	28.78E	5	3.0		
ISK	V	10 01 18 21.9	36.56N	28.80E	9	3.0		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.8km s-min=1.1km az=187.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=170.4.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=177.0.							
ISC	**V**	**10 19 31 54.2–1.0**	**36.93N–.08**	**27.98E–.07**	**12**		**11**	**0-2**
ISK	V	10 19 31 48.6	36.10N	27.87E	5	2.7		¶16853466
CSEM	V	10 19 31 48.6	36.10N	27.87E	5	2.7		
DDA	V	10 19 31 52.7	37.00N	28.29E	7	2.3		
ISCJB	V	10 19 31 53.3–1.1	36.92N–.07	27.98E–.09	12	2.3		
ISC	Event type ke.							
CSEM	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**10 19 32 01.9–1.2**	**36.92N–.08**	**28.31E–.05**	**14**		**9**	**0-1**
ISCJB	V	10 19 32 02.4–1.0	36.9N–.10	28.34E–.10	14			¶602861621
DDA	V	10 19 32 04.0	36.96N	28.23E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=17.5km s-min=5.9km az=35.0.							
ISC	**V**	**10 19 39 41.9–1.1**	**36.97N–.03**	**28.16E–.03**	**8–10**		**44**	**0-2**
ISK	V	10 19 39 42.5	36.99N	28.27E	3	2.6		¶16853467
DDA	V	10 19 39 42.2	36.98N	28.22E	7	2.6		
CSEM	V	10 19 39 43.0–.20	36.99N	28.20E	2	2.6		
ATH	V	10 19 39 44.0	36.87N	28.01E	30–2	1.7L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=35.0.							
ATH	Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=197.0.							
ISC	**V**	**10 19 48 54.4–1.1**	**36.96N–.04**	**28.31E–.04**	**7–13**		**22**	**0-1**
ISCJB	V	10 19 48 54.5–.67	36.99N–.06	28.30E–.09	12–8			¶16853468
DDA	V	10 19 48 54.4	36.99N	28.27E	7	2.6		
ISK	V	10 19 48 54.7	36.99N	28.26E	4	2.6		
CSEM	V	10 19 48 55.0–.17	37.00N	28.26E	12	2.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=15.0km s-min=5.7km az=141.3.							
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=38.0.							
ISC	**V**	**11 04 07 26.9–.87**	**36.86N–.02**	**27.53E–.02**	**15–6**		**56**	**0-1**
DDA	V	11 04 07 26.9	36.85N	27.57E	7	2.8		¶16853473
THE	V	11 04 07 26.5	36.87N	27.54E	0–0	2.4L		
ISK	V	11 04 07 26.6	36.87N	27.54E	8	2.7		
ISCJB	V	11 04 07 27.2–.47	36.87N–.02	27.54E–.03	8–4	2.7		
CSEM	V	11 04 07 27.0–.15	36.87N	27.54E	10	2.8		
ISC	Event type ke.							
THE	Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=212.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=154.9.							
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=137.0.							
ISC	**V**	**11 12 09 33.7–1.4**	**35.36N–.06**	**27.71E–.05**	**18–9**		**33**	**0-2**
ATH	V	11 12 09 33.6	35.33N	27.72E	7–3	2.3L		¶600916883
ISCJB	V	11 12 09 34.1–1.4	35.47N–.06	27.76E–.05	7–8	2.3L		
CSEM	V	11 12 09 34.8–.66	35.43N	27.78E	10	2.3L		
DDA	V	11 12 09 35.0	35.80N	28.27E	5	2.8		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=3.9km s-min=1.2km az=336.0.							
ISCJB	Event type ke. Error ellipse: s-maj=10.9km s-min=5.0km az=144.8.							
CSEM	Event type ke. Error ellipse: s-maj=16.0km s-min=7.4km az=147.0.							
ISC	**V**	**11 23 35 16.7–2.4**	**35.30N–.09**	**27.68E–.07**	**6–13**		**33**	**0-3**
ATH	V	11 23 35 18.8	35.43N	27.59E	18–2	2.2L		¶600916897
CSEM	V	11 23 35 19.1–.48	35.42N	27.62E	10	2.2L		
DDA	V	11 23 36 04.7	35.46N	27.60E	12	3.4		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=4.5km s-min=1.2km az=324.0.							
CSEM	Event type ke. Error ellipse: s-maj=14.2km s-min=4.3km az=147.0.							
DDA	Event type ke.							
ISC	**V**	**12 02 45 34.0–1.4**	**36.62N–.03**	**27.06E–.03**	**125–9**		**115**	**0-4**
ISCJB	V	12 02 45 34.3–.64	36.61N–.04	27.05E–.03	118–7			¶16853500
ATH	V	12 02 45 34.3	36.69N	26.94E	114–9	2.9L		
ISK	V	12 02 45 35.5	36.54N	27.11E	101	2.9L		
THE	V	12 02 45 35.9	36.61N	27.03E	138–10	3.1L		
CSEM	V	12 02 45 35.1–.28	36.60N	27.07E	114–3	2.9L		
DDA	V	12 02 46 31.7	36.51N	27.23E	42	3.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.0km s-min=3.4km az=150.7.							
ATH	Event type ke. Error ellipse: s-maj=9.9km s-min=1.6km az=148.0.							
THE	Event type ke. Error ellipse: s-maj=10.3km s-min=1.3km az=134.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=2.5km az=154.0.							
ISC	**V**	**15 01 11 03.8–1.2**	**36.93N–.04**	**28.21E–.03**	**3–11**		**37**	**0-2**
ISK	V	15 01 11 04.0	36.95N	28.30E	8	2.6		¶16853578
DDA	V	15 01 11 04.8	36.99N	28.19E	7	2.7		
CSEM	V	15 01 11 05.0–.32	36.97N	28.23E	8	2.6		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=7.9km s-min=5.0km az=25.0.							
THE	**V**	**15 02 28 18.6**	**36.38N**	**25.28E**	**20–4**	**1.8L**		
CSEM	V	15 02 28 18.6	36.38N	25.28E	20	1.8L		¶601078182
THE	Event type ke. Error ellipse: s-maj=5.9km s-min=1.8km az=84.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
THE	**V**	**15 02 28 24.3**	**36.44N**	**25.39E**	**4–3**	**1.1L**		
CSEM	V	15 02 28 24.3	36.44N	25.39E	4	1.1L		¶601078185
THE	Event type ke. Error ellipse: s-maj=3.9km s-min=0.7km az=17.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**15 07 30 46.8–1.1**	**36.96N–.03**	**28.13E–.03**	**6–10**		**35**	**0-2**
CSEM	V	15 07 30 46.9–.25	36.94N	28.14E	5	2.5		¶602861720
ISK	V	15 07 30 46.0	36.95N	28.15E	8	2.5		
DDA	V	15 07 30 47.8	36.96N	28.14E	7	2.5		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=6.2km s-min=5.1km az=21.0.							
ISC	**V**	**15 07 56 40.3–.57**	**36.57N–.03**	**26.90E–.03**	**141–5**	**3.6b**	**253**	**0-43**
ISCJB	V	15 07 56 39.6–.20	36.51N–.02	26.92E–.02	148–3	3.6b		¶16709928
IDC	V	15 07 56 39.5–.88	36.61N	26.79E	128–13	3.9,3.6		
CSEM	V	15 07 56 40.6–.13	36.54N	26.90E	138–2	3.7L,3.6		
ATH	V	15 07 56 40.3	36.61N	26.83E	140–3	3.7L,3.6		
HLW	V	15 07 56 41.0	36.43N	27.06E	30–17	3.9L,3.8		
THE	V	15 07 56 42.8	36.60N	26.85E	150–2	3.9L,3.8		
DDA	V	15 07 56 43.4	36.61N	26.69E	46	3.4,3.8		
GII	V	15 07 56 43.6–.00	36.09N	27.37E	1–0	4.1b,3.8		
ISK	V	15 07 56 44.0	36.73N	26.95E	82	3.4L,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=3.9.							
IDC	Error ellipse: s-maj=18.9km s-min=9.5km az=155.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=13.0.							
ATH	Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=121.0.							
THE	Event type ke. Error ellipse: s-maj=2.4km s-min=0.6km az=113.0.							
GII	Event type ke.							
ISC	**V**	**16 00 36 20.2–1.1**	**36.93N–.04**	**28.31E–.03**	**19–2**		**25**	**0-2**
ISCJB	V	16 00 36 21.7–.68	36.98N–.04	28.26E–.04	3–13			¶16853616
ISK	V	16 00 36 21.4	37.04N	28.29E	19	2.5		
DDA	V	16 00 36 21.7	36.99N	28.27E	7	2.6		
CSEM	V	16 00 36 22.4–.31	37.00N	28.24E	5	2.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=4.5km az=37.5.							
CSEM	Event type ke. Error ellipse: s-maj=6.8km s-min=5.1km az=23.0.							
ISC	**V**	**16 02 36 38.0–1.2**	**36.28N–.03**	**27.95E–.03**	**4–11**		**53**	**0-2**
ATH	V	16 02 36 35.6	36.27N	28.23E	27–1	2.3L		¶16853618
ISK	V	16 02 36 37.8	36.28N	28.08E	2	2.8		
CSEM	V	16 02 36 38.7–.21	36.26N	28.03E	5	2.3L		
DDA	V	16 02 36 40.2	36.38N	27.95E	7	2.7		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=17.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.7km az=149.0.							
ATH	**V**	**16 19 00 03.9**	**36.81N**	**26.32E**	**24–3**	**1.7L**		
DDA	V	16 19 00 01.6	37.03N	27.97E	7	2.7		¶600917028
CSEM	V	16 19 00 02.1–.25	37.03N	27.95E	10	2.7		
ATH	Event type ke. Error ellipse: s-maj=3.9km s-min=1.2km az=10.0.							
CSEM	Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=132.0.							
THE	**V**	**17 00 24 51.1**	**36.41N**	**25.41E**	**3–1**	**0.8L**		
CSEM	V	17 00 24 51.1	36.41N	25.41E	3	0.8L		¶601078203
THE	Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=139.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**17 04 23 07.8–.98**	**36.28N–.02**	**28.04E–.02**	**4–8**		**57**	**0-2**
CSEM	V	17 04 23 07.8–.25	36.25N	28.04E	2	2.4L		¶16853632
ISK	V	17 04 23 07.1	36.27N	28.06E	5	2.7		
THE	V	17 04 23 07.7	36.26N	28.08E	10–0	2.4L		
DDA	V	17 04 23 08.6	36.33N	28.03E	7	2.8		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=160.0.							
THE	Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=156.0.							
ISC	**V**	**17 21 46 56.5–1.2**	**36.29N–.03**	**27.99E–.04**	**2–11**		**25**	**0-2**
ATH	V	17 21 46 55.5	36.23N	28.16E	20–3	2.0L		¶600917061
DDA	V	17 21 46 55.9	36.26N	28.01E	7	2.8		
ISCJB	V	17 21 46 57.0–.73	36.25N–.05	28.03E–.07	8–8	2.8		
CSEM	V	17 21 46 56.5–.20	36.27N	28.05E	8	2.0L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=6.2km s-min=2.5km az=83.0.							
DDA	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.6km s-min=7.0km az=28.2.							
CSEM	Event type ke. Error ellipse: s-maj=4.8km s-min=4.7km az=135.0.							
ISC	**V**	**18 21 52 56.5–1.1**	**36.48N–.03**	**28.65E–.02**	**13–9**		**61**	**0-2**
ATH	V	18 21 52 54.5	36.68N	28.56E	19–3	1.6L		¶16882283
DDA	V	18 21 52 55.9	36.45N	28.58E	34	2.7		
CSEM	V	18 21 52 56.8–.16	36.47N	28.64E	15	1.9L		
THE	V	18 21 52 56.3	36.50N	28.63E	1–1	1.9L		
ISCJB	V	18 21 52 57.1–.70	36.47N–.03	28.63E–.03	14–5	1.9L		
ISC	Event type ke.							
ATH	Event type ke.							
CSEM	Event type ke.							
THE	Event type ke.							
ISCJB	Event type ke.							
ISC	**V**	**18 23 40 08.5–.93**	**37.85N–.02**	**26.88E–.02**	**13–7**		**74**	**0-2**
DDA	V	18 23 40 09.0	37.90N	26.93E	5	2.8		¶16882287
ATH	V	18 23 40 08.6	37.80N	26.86E	25–1	2.2L		
ISCJB	V	18 23 40 09.2–.44	37.86N–.02	26.89E–.03	5–3	2.2L		
CSEM	V	18 23 40 09.3–.19	37.84N	26.88E	10	2.2L		
THE	V	18 23 40 10.1	37.83N	26.87E	12–0	2.3L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=4.2km s-min=1.2km az=82.0.							
ISCJB	Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=151.9.							
CSEM	Event type ke. Error ellipse: s-maj=4.8km s-min=3.3km az=55.0.							
THE	Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=229.0.							
ISC	**V**	**19 01 25 52.2–1.3**	**36.30N–.04**	**28.71E–.03**	**3–10**		**47**	**0-2**
DDA	V	19 01 25 51.9	36.28N	28.67E	7	3.0		¶16853689
ISK	V	19 01 25 52.1	36.34N	28.70E	5	2.5		
CSEM	V	19 01 25 52.4–.29	36.31N	28.72E	2	2.5		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=4.0.							
ISC	**V**	**19 02 08 35.9–1.3**	**36.49N–.02**	**28.62E–.02**	**5–11**		**95**	**0-3**
ATH	V	19 02 08 36.2	36.49N	28.63E	28–1	2.1L		¶16853690
ISK	V	19 02 08 36.6	36.48N	28.60E	12	2.9		
ISCJB	V	19 02 08 37.1–.48	36.48N–.02	28.59E–.02	11–3	2.9		
DDA	V	19 02 08 37.1	36.54N	28.64E	7	3.1L		
CSEM	V	19 02 08 37.0–.14	36.47N	28.62E	15	2.9		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=3.4km s-min=1.1km az=176.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=164.5.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=161.0.							
ISC	**V**	**19 13 15 43.7–.92**	**36.58N–.02**	**25.70E–.02**	**14–8**		**61**	**0-2**
ISCJB	V	19 13 15 43.6–.71	36.60N–.03	25.75E–.04	5–5			¶16853704
ISK	V	19 13 15 43.5	36.59N	25.71E	9	3.2		
CSEM	V	19 13 15 43.9–.11	36.58N	25.71E	10	2.6L		
ATH	V	19 13 15 43.0	36.57N	25.76E	16–5	2.2L		
THE	V	19 13 15 44.3	36.61N	25.68E	8–1	2.6L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=7.4.							
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=107.0.							
ATH	Event type ke. Error ellipse: s-maj=5.5km s-min=1.2km az=267.0.							
THE	Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=278.0.							
ISC	**V**	**19 19 34 57.4–1.1**	**37.92N–.03**	**26.63E–.03**	**14–8**		**52**	**0-2**
ISK	V	19 19 34 56.4	37.94N	26.62E	5	2.8		¶16853712
ISCJB	V	19 19 34 57.6–.58	37.90N–.03	26.62E–.04	4–5	2.8		
CSEM	V	19 19 34 57.7–.25	37.92N	26.61E	5	2.9L		
DDA	V	19 19 34 57.6	37.91N	26.65E	6	2.9L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=146.0.							
CSEM	Event type ke. Error ellipse: s-maj=6.4km s-min=3.7km az=52.0.							
THE	**V**	**19 23 11 14.4**	**36.46N**	**25.51E**	**2–5**	**1.2L**		
CSEM	V	19 23 11 14.4	36.46N	25.51E	2	1.2L		¶601078230
THE	Event type ke. Error ellipse: s-maj=5.9km s-min=0.7km az=56.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
THE	**V**	**22 00 03 41.5**	**36.41N**	**25.42E**	**2–1**	**0.9L**		
CSEM	V	22 00 03 41.5	36.41N	25.42E	2	0.9L		¶601078245
THE	Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=50.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**22 07 08 04.6–.96**	**36.97N–.02**	**28.21E–.02**	**8–8**		**95**	**0-4**
ISCJB	V	22 07 08 04.7–.61	36.98N–.02	28.19E–.03	9–5			¶16882375
THE	V	22 07 08 04.1	36.98N	28.24E	0–1	3.3L		
CSEM	V	22 07 08 04.5–.16	37.01N	28.24E	10	3.3L		
ATH	V	22 07 08 05.0	36.97N	28.17E	25–1	3.0L		
DDA	V	22 07 08 05.2	37.02N	28.21E	7	3.5L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=176.8.							
THE	Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=51.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.6km s-min=3.5km az=137.0.							

ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=228.0.
ISC V 22 08 24 25.6–1.0 36.98N–.02 28.23E–.02 5–9 46 0-2
CSEM V 22 08 24 25.9–.18 36.99N 28.22E 8 2.5L ¶601078247
THE V 22 08 24 25.5 36.99N 28.22E 2–3 2.5L
DDA V 22 08 24 25.3 36.97N 28.26E 7 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=29.0.
THE Event type ke. Error ellipse: s-maj=3.3km s-min=0.8km az=291.0.
ISC V 22 09 51 52.8–1.3 36.69N–.04 26.88E–.03 12–10 76 1-3
DDA V 22 09 51 53.4 36.43N 27.36E 7 3.1L ¶16882378
ATH V 22 09 51 53.2 36.78N 26.77E 30–6 2.8L
THE V 22 09 51 55.0 36.72N 26.76E 7–1 3.1L
CSEM V 22 09 51 55.2–.30 36.75N 26.87E 30 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=8.2km s-min=1.4km az=16.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.5km az=352.0.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=4.5km az=153.0.
ISC V 22 14 51 21.5–.56 36.65N–.03 27.20E–.03 129–5 4.1b 410 0-63
HLW V 22 14 51 19.5 36.76N 27.26E 33–29 3.9L ¶16535849
ISCJB V 22 14 51 20.5–.16 36.66N–.02 27.17E–.02 137–2 4.1b
NSSC V 22 14 51 20.3–1.2 36.42N 27.52E 135–271 3.0L,2.6
ATH V 22 14 51 21.0 36.70N 27.15E 137–3 4.0L,2.6
IDC V 22 14 51 21.1–.79 36.66N 27.10E 128–10 4.1,3.8b
DDA V 22 14 51 21.6 36.79N 27.18E 7 3.7L,3.8b
CSEM V 22 14 51 21.4–.08 36.66N 27.17E 134–1 4.0L,3.8b
ISK V 22 14 51 22.3 36.78N 27.11E 128 3.8,3.8b
NEIC V 22 14 51 22.5 36.72N 27.13E 121 4.2b,3.8b
NIC V 22 14 51 23.1–.20 36.92N 27.54E 81 4.6b,4.2L
THE V 22 14 51 24.5 36.71N 27.13E 126–1 3.7L,4.2L
GII V 22 14 51 26.2–.00 36.17N 27.58E 15–0 3.7,4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=1.2.
NSSC Error ellipse: s-maj=9.7km s-min=44.6km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.1km az=126.0.
IDC Error ellipse: s-maj=15.9km s-min=8.4km az=153.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=16.0.
NEIC Event type se. After CSEM.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=112.0.
GII Event type ke.
DDA V 23 04 06 01.8 36.96N 28.37E 7 2.4
¶602862009
ISC V 23 20 23 00.0–.89 36.98N–.04 28.23E–.03 10 24 0-1
ISCJB V 23 20 22 58.8–.64 36.98N–.05 28.27E–.05 10 ¶16854778
ISK V 23 20 22 58.8 37.00N 28.29E 12 2.5
CSEM V 23 20 22 59.6–.34 36.97N 28.23E 2 2.5
DDA V 23 20 23 00.3 36.84N 28.13E 7 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.1km az=25.4.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=6.1km az=22.0.
DDA V 24 05 37 07.9 36.92N 27.87E 7 1.9L
¶602862068
ATH V 24 13 04 16.4 37.97N 25.25E 14–4 2.2L
CSEM V 24 13 04 16.4 37.97N 25.25E 14 2.2L ¶600917231
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.0km az=105.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 07 39 41.8–1.0 37.29N–.02 26.84E–.02 19–3 87 0-3
ISCJB V 25 07 39 41.7–.61 37.27N–.02 26.80E–.03 9–5 ¶16882473
CSEM V 25 07 39 41.9–.16 37.28N 26.81E 12 2.5L
ATH V 25 07 39 41.7 37.29N 26.82E 32–1 2.5L
THE V 25 07 39 42.3 37.27N 26.83E 7–2 2.6L
DDA V 25 07 39 43.5 37.44N 27.10E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=65.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=66.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=69.0.
THE V 26 14 28 04.2 36.42N 25.40E 3–1 2.6L
CSEM V 26 14 28 03.7–.18 36.39N 25.43E 6–1 2.6L ¶16882516
ATH V 26 14 28 03.5 36.40N 25.48E 3–1 2.5L
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=115.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.0km az=70.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=268.0.
ISC V 26 14 47 20.4–1.0 36.61N–.04 26.89E–.03 107–10 64 1-42
IDC V 26 14 46 48.9–7.5 36.24N 24.59E 0 3.7,3.6b ¶16710984
ISCJB V 26 14 47 19.7–.58 36.58N–.05 26.87E–.04 117–8 3.4b,3.6b
ATH V 26 14 47 19.2 36.57N 26.89E 124–5 2.8L,3.6b
CSEM V 26 14 47 21.4–.18 36.58N 26.88E 100 3.0,3.6b
ISK V 26 14 47 23.0 36.58N 26.96E 58 3.0,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=160.0km s-min=97.3km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=4.4km az=160.6.
ATH Event type ke. Error ellipse: s-maj=5.7km s-min=1.4km az=117.0.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=163.0.
ISC V 26 15 07 45.5–1.0 36.76N–.02 27.53E–.02 18–7 95 0-3
ISK V 26 15 07 44.8 36.76N 27.53E 2 2.9 ¶16855145
ATH V 26 15 07 44.7 36.76N 27.53E 31–0 2.7L
ISCJB V 26 15 07 45.8–.46 36.75N–.02 27.52E–.03 10–4 2.7L
THE V 26 15 07 45.3 36.76N 27.56E 7–1 3.0L
CSEM V 26 15 07 45.9–.20 36.75N 27.54E 10 2.7L
DDA V 26 15 07 45.1 36.75N 27.54E 7 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=233.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=14.3.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=303.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=4.1km az=89.0.
ISC V 26 15 18 13.2–.87 36.76N–.02 27.55E–.02 17–7 96 0-3
DDA V 26 15 18 12.2 36.74N 27.54E 7 3.0L ¶16855148
ATH V 26 15 18 12.3 36.77N 27.55E 31–1 2.3L
ISCJB V 26 15 18 13.5–.42 36.77N–.02 27.54E–.03 13–3 2.3L
THE V 26 15 18 13.0 36.77N 27.57E 5–1 2.5L
CSEM V 26 15 18 13.3–.14 36.76N 27.56E 8 3.0L
ISK V 26 15 18 13.3 36.78N 27.57E 9 2.9
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=226.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=3.4km az=160.8.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=307.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.9km az=165.0.
ISC V 26 15 36 17.4–1.2 36.64N–.04 27.69E–.04 15–13 24 0-1
ISCJB V 26 15 36 18.9–1.0 36.68N–.05 27.57E–.09 13–7 ¶16855149
ISK V 26 15 36 18.8 36.67N 27.54E 8 2.6
CSEM V 26 15 36 19.2–.29 36.68N 27.55E 15 2.6
DDA V 26 15 36 21.0 36.80N 27.62E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=7.6km az=1.3.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.1km az=110.0.
ISC V 26 17 20 22.6–1.1 36.99N–.03 26.45E–.02 25–13 54 1-2
ISK V 26 17 20 21.5 36.85N 26.44E 11 2.8 ¶16855159
ISCJB V 26 17 20 22.9–.53 37.02N–.03 26.42E–.04 24–7 2.8
ATH V 26 17 20 22.4 37.08N 26.45E 36–4 2.1L
CSEM V 26 17 20 22.8–.24 37.01N 26.42E 20 2.8
DDA V 26 17 20 23.7 37.12N 26.50E 7 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=160.4.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.6km az=286.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=159.0.
THE V 26 17 56 54.9 36.41N 25.41E 2–1 0.9L
CSEM V 26 17 56 54.9 36.41N 25.41E 2 0.9L ¶601078308
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=53.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 26 18 34 33.6–1.2 36.97N–.04 26.49E–.04 26–13 29 1-2
ISK V 26 18 34 32.4 36.83N 26.52E 5 2.7 ¶16855165
CSEM V 26 18 34 32.6–.53 36.95N 26.46E 5 2.6
ISCJB V 26 18 34 33.4–1.1 36.98N–.05 26.44E–.06 22–12 2.6
DDA V 26 18 34 38.3 37.33N 26.78E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=9.0km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.8km az=44.0.
ISC V 27 01 38 12.7–.78 36.59N–.02 25.69E–.01 16–5 3.9b 266 0-76
ATH V 27 01 38 11.8 36.60N 25.67E 27–0 3.5L ¶16711022
ISK V 27 01 38 13.0 36.53N 25.69E 8 3.6L
CSEM V 27 01 38 13.1–.11 36.55N 25.64E 15 3.5L
ISCJB V 27 01 38 13.2–.27 36.57N–.02 25.64E–.02 21–2 3.7b,2.8s
THE V 27 01 38 13.1 36.60N 25.66E 11–0 3.6L,2.8s
IDC V 27 01 38 16.3–1.2 36.45N 25.81E 49–19 3.7,3.7
HLW V 27 01 38 17.8 36.36N 26.08E 33–22 3.4L,3.7
DDA V 27 01 38 46.6 36.43N 25.36E 11 3.9,3.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=281.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=166.2.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=245.0.
IDC Error ellipse: s-maj=17.9km s-min=9.9km az=147.0.
DDA Event type ke.
ISC V 27 02 55 02.0–1.2 36.47N–.05 28.60E–.03 19–3 31 0-2
ISK V 27 02 55 00.9 36.42N 28.52E 12 2.8 ¶16855229
CSEM V 27 02 55 02.4–.62 36.51N 28.60E 10 2.8
DDA V 27 02 55 02.9 36.66N 28.66E 7 2.6
ISCJB V 27 02 55 03.6–.80 36.53N–.06 28.64E–.05 32–5 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 27 15 37 08.7–1.3 35.47N–.06 27.65E–.04 18–3 40 0-2
ISK V 27 15 37 06.0 35.22N 27.35E 52 3.3 ¶16855302
ATH V 27 15 37 07.1 35.44N 27.71E 30–1 2.4L
ISCJB V 27 15 37 09.1–.94 35.48N–.06 27.68E–.04 28–6 2.4L
CSEM V 27 15 37 10.4–.50 35.60N 27.53E 15 3.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.2km az=334.0.
ISCJB Event type ke. Error ellipse: s-maj=11.5km s-min=4.0km az=157.5.
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=5.0km az=144.0.
ISC V 27 15 45 24.9–.98 37.87N–.03 26.97E–.03 13–9 36 0-1
ISK V 27 15 45 24.9 37.87N 27.01E 11 2.8 ¶16855303
DDA V 27 15 45 24.9 37.84N 26.92E 7 2.8
ISCJB V 27 15 45 25.1–.48 37.88N–.03 26.98E–.05 11–5 2.8
CSEM V 27 15 45 25.2–.10 37.88N 26.97E 12 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=3.8km az=139.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=57.0.
ISC V 28 15 47 38.0–1.0 36.97N–.05 28.23E–.03 8–7 27 0-1
ISK V 28 15 47 37.4 36.97N 28.27E 13 2.6 ¶16855481
CSEM V 28 15 47 38.0–.14 36.96N 28.26E 10 2.6
DDA V 28 15 47 38.9 36.95N 28.15E 7 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=166.0.
ISC V 29 08 04 26.1–.95 36.54N–.02 27.63E–.02 14–8 89 0-3
ATH V 29 08 04 24.6 36.58N 27.65E 31–1 2.4L ¶16855637
ISK V 29 08 04 25.4 36.58N 27.71E 8 2.9
ISCJB V 29 08 04 25.8–.48 36.52N–.02 27.60E–.03 10–4 2.9
THE V 29 08 04 26.0 36.55N 27.63E 7–1 2.5L
CSEM V 29 08 04 26.3–.15 36.54N 27.60E 20 2.5L
DDA V 29 08 04 27.5 36.66N 27.79E 7 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=229.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=144.2.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=253.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.3km az=169.0.
ISC V 29 17 04 14.4–.83 37.80N–.02 26.91E–.02 14–6 82 0-3
ISCJB V 29 17 04 14.4–.41 37.81N–.02 26.94E–.03 4–4 ¶16855693
ATH V 29 17 04 14.2 37.71N 26.81E 22–1 2.7L
CSEM V 29 17 04 14.5–.13 37.80N 26.92E 5 2.7L
ISK V 29 17 04 14.1 37.81N 26.95E 5 3.0
DDA V 29 17 04 14.0 37.81N 26.93E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=43.2.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.2km az=226.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=41.0.
ISC V 30 00 03 53.4–1.2 36.95N–.04 28.21E–.03 2–11 30 0-1
ISK V 30 00 03 52.7 36.96N 28.21E 5 2.6 ¶16855750
CSEM V 30 00 03 53.6–.40 36.95N 28.18E 5 2.6
DDA V 30 00 03 53.8 36.99N 28.21E 7 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=5.7km az=20.0.
ISC V 30 11 30 01.4–.80 37.80N–.02 26.91E–.02 14–5 107 0-3
ISCJB V 30 11 30 01.3–.40 37.79N–.02 26.92E–.02 0–3 ¶16855824
DDA V 30 11 30 01.1 37.81N 26.92E 8 2.7
CSEM V 30 11 30 01.7–.18 37.78N 26.92E 2 2.8L
ATH V 30 11 30 01.0 37.81N 26.93E 12–1 2.8L
ISK V 30 11 30 01.3 37.75N 26.94E 6 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=42.0.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=96.0.
ISC V 30 11 35 05.7–.88 37.78N–.03 26.95E–.03 14–7 33 0-2
ISCJB V 30 11 35 05.8–.53 37.76N–.04 26.97E–.04 10–5 ¶16855825
ATH V 30 11 35 05.9 37.78N 26.93E 14–2 2.7L
CSEM V 30 11 35 05.9–.16 37.76N 26.95E 8 2.7L
ISK V 30 11 35 05.3 37.76N 26.96E 10 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.4km az=12.6.
ATH Event type ke. Error ellipse: s-maj=5.2km s-min=1.3km az=249.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=40.0.
ISC V 30 11 46 58.8–.78 37.80N–.02 26.89E–.02 16–5 171 0-4
DDA V 30 11 46 58.5 37.81N 26.92E 17 3.4L ¶16855826
ISK V 30 11 46 58.0 37.81N 26.94E 11 3.3L
ISCJB V 30 11 46 58.6–.34 37.81N–.02 26.89E–.02 10–2 3.3L
CSEM V 30 11 46 58.8–.10 37.80N 26.88E 10 3.6L
ATH V 30 11 46 58.0 37.81N 26.85E 19–1 3.6L
THE V 30 11 46 58.5 37.82N 26.89E 0–1 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=59.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=237.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=249.0.
ISC V 30 12 10 38.5–.74 37.78N–.02 26.90E–.02 16–3 123 0-3
ATH V 30 12 10 37.4 37.77N 26.89E 24–1 2.8L ¶16855828
ISK V 30 12 10 37.8 37.77N 26.91E 18 3.1
DDA V 30 12 10 38.3 37.80N 26.92E 14 3.1
IASPE V 30 12 10 38.4–.79 37.78N–.02 26.89E–.02 17–5 3.1
ISCJB V 30 12 10 38.8–.32 37.77N–.02 26.87E–.03 17–3 3.1
CSEM V 30 12 10 38.2–.15 37.78N 26.88E 10 2.8L
THE V 30 12 10 39.3 37.69N 26.72E 12–0 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=85.0.
IASPE Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=56.4. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=135.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=60.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=51.0.
ISC V 30 12 27 30.0–.93 37.76N–.03 26.88E–.03 19–2 57 0-3
ATH V 30 12 27 28.4 37.74N 26.92E 29–1 2.6L ¶600917445

ISCJB	V	30 12 27 30.7–.47	37.79N–.03	26.86E–.03	12–4	2.6L			
CSEM	V	30 12 27 30.3–.25	37.76N	26.84E	15	2.6L			
DDA	V	30 12 27 30.5	37.79N	26.87E	7	2.8			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=4.0km s-min=1.4km az=94.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=34.5.								
CSEM	Event type ke. Error ellipse: s-maj=6.8km s-min=4.5km az=41.0.								
ISC	**V**	**30 12 33 56.9–.81**	**37.79N–.02**	**26.89E–.03**	**15–5**		**49**	**0-3**	
ATH	V	30 12 33 56.4	37.77N	26.81E	22–1	2.5L			¶600917447
DDA	V	30 12 33 57.0	37.80N	26.88E	7	2.4			
ISCJB	V	30 12 33 57.1–.45	37.80N–.03	26.88E–.03	12–3	2.4			
CSEM	V	30 12 33 57.2–.27	37.78N	26.85E	10	2.5L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=2.7km s-min=1.2km az=119.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=141.5.								
CSEM	Event type ke. Error ellipse: s-maj=8.2km s-min=4.8km az=47.0.								
ISC	**V**	**30 12 35 24.7–.90**	**37.81N–.03**	**26.89E–.03**	**17–8**		**38**	**0-2**	
ISCJB	V	30 12 35 25.2–.49	37.83N–.03	26.93E–.04	1–7				¶600917448
ATH	V	30 12 35 25.5	37.83N	26.83E	7–17	2.3L			
CSEM	V	30 12 35 25.4–.27	37.83N	26.90E	2	2.3L			
DDA	V	30 12 35 25.2	37.82N	26.90E	7	2.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=3.5km az=142.1.								
ATH	Event type ke. Error ellipse: s-maj=17.6km s-min=0.9km az=192.0.								
CSEM	Event type ke. Error ellipse: s-maj=9.2km s-min=4.2km az=47.0.								
ISC	**V**	**31 11 19 49.9–1.1**	**36.97N–.02**	**28.24E–.02**	**3–9**		**96**	**0-3**	
ISK	V	31 11 19 48.9	36.96N	28.31E	3	2.7			¶16855929
THE	V	31 11 19 49.6	36.96N	28.26E	3–3	2.8L			
ISCJB	V	31 11 19 49.7–.43	36.96N–.02	28.25E–.02	3–4	2.8L			
DDA	V	31 11 19 50.2	36.99N	28.25E	7	3.0L			
ATH	V	31 11 19 50.9	36.97N	28.17E	27–2	2.4L			
CSEM	V	31 11 19 50.3–.17	36.98N	28.25E	8	2.7			
ISC	Event type ke.								
THE	Event type ke. Error ellipse: s-maj=3.7km s-min=0.8km az=41.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=173.3.								
ATH	Event type ke. Error ellipse: s-maj=3.3km s-min=1.5km az=219.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.1km s-min=3.4km az=168.0.								
ISC	**VI**	**01 15 14 43.0–1.0**	**37.80N–.03**	**26.91E–.04**	**12–9**		**42**	**0-3**	
ISCJB	VI	01 15 14 42.8–.61	37.79N–.03	26.90E–.05	9–5				¶17555326
DDA	VI	01 15 14 42.5	37.78N	26.87E	7	2.8L			
ISK	VI	01 15 14 42.6	37.79N	26.94E	9	2.8			
CSEM	VI	01 15 14 43.0–.24	37.80N	26.91E	10	2.8L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=3.8km az=149.0.								
DDA	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=5.5km s-min=2.8km az=72.0.								
ISC	**VI**	**01 17 39 12.7–.93**	**36.49N–.02**	**28.77E–.02**	**15–7**		**82**	**0-3**	
ISCJB	VI	01 17 39 12.6–.49	36.48N–.03	28.77E–.03	1–4				¶17555330
ATH	VI	01 17 39 12.4	36.52N	28.75E	18–2	2.4L			
DDA	VI	01 17 39 12.4	36.43N	28.75E	22	3.2L			
CSEM	VI	01 17 39 12.8–.20	36.49N	28.79E	5	2.8			
ISK	VI	01 17 39 13.1	36.56N	28.82E	16	2.8			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.4km s-min=3.5km az=179.3.								
ATH	Event type ke. Error ellipse: s-maj=3.4km s-min=1.3km az=181.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=4.0.								
ISC	**VI**	**01 17 52 58.8–1.0**	**37.81N–.03**	**26.95E–.03**	**14–9**		**32**	**0-1**	
ISK	VI	01 17 52 57.8	37.81N	26.95E	5	2.5			¶17555332
ISCJB	VI	01 17 52 58.4–.54	37.80N–.04	26.92E–.05	11–6	2.5			
CSEM	VI	01 17 52 58.4–.16	37.80N	26.94E	15	2.5			
DDA	VI	01 17 52 58.4	37.79N	26.89E	7	2.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=3.7km az=135.6.								
CSEM	Event type ke. Error ellipse: s-maj=4.8km s-min=2.5km az=46.0.								
THE	**VI**	**03 09 13 25.4**	**36.41N**	**25.40E**	**4–2**	**0.7L**			
CSEM	VI	03 09 13 25.4	36.41N	25.40E	4	0.7L			¶601078386
THE	Event type ke. Error ellipse: s-maj=2.7km s-min=0.6km az=26.0.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**VI**	**03 21 21 29.7–1.6**	**35.24N–.07**	**27.87E–.05**	**10–12**		**35**	**1-3**	
ATH	VI	03 21 21 30.9	35.25N	27.77E	17–2	2.3L			¶602728826
CSEM	VI	03 21 21 30.9	35.25N	27.77E	17	2.3L			
DDA	VI	03 21 21 45.7	36.24N	28.75E	7	2.7L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=6.4km s-min=1.9km az=325.0.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**VI**	**04 02 55 03.3–1.4**	**36.56N–.05**	**28.40E–.04**	**50–10**		**32**	**0-2**	
ISCJB	VI	04 02 55 02.7–.84	36.54N–.06	28.35E–.06	49–10				¶17555429
CSEM	VI	04 02 55 02.4–.46	36.48N	28.31E	20	2.7			
ISK	VI	04 02 55 02.7	36.52N	28.34E	28	2.7			
DDA	VI	04 02 55 03.9	36.87N	28.77E	8	2.6L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=11.5km s-min=6.4km az=37.2.								
CSEM	Event type ke. Error ellipse: s-maj=9.8km s-min=8.7km az=27.0.								
ISC	**VI**	**05 20 42 08.9–1.1**	**36.94N–.05**	**28.27E–.03**	**9–10**		**26**	**0-1**	
ISCJB	VI	05 20 42 09.2–.60	36.97N–.05	28.28E–.05	10–7				¶17555541
CSEM	VI	05 20 42 09.8–.15	37.01N	28.26E	15	2.5			
ISK	VI	05 20 42 09.3	36.99N	28.25E	13	2.5			
DDA	VI	05 20 42 09.6	36.97N	28.27E	7	2.5L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=5.2km az=30.6.								
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=18.0.								
ISC	**VI**	**05 22 38 32.5–1.1**	**36.04N–.03**	**28.92E–.02**	**57–8**		**249**	**1-8**	
ATH	VI	05 22 38 31.8	36.07N	28.89E	62–3	3.2L			¶16558250
ISCJB	VI	05 22 38 31.3–.23	36.03N–.02	28.91E–.02	75–5	3.2L			
CSEM	VI	05 22 38 32.8–.10	36.03N	28.91E	60	3.3			
DDA	VI	05 22 38 33.5	36.32N	28.79E	7	3.5L			
ISK	VI	05 22 38 33.4	36.18N	28.75E	29	3.3			
THE	VI	05 22 38 34.1	36.09N	28.88E	61–3	3.2L			
NIC	VI	05 22 38 37.6–.30	35.89N	29.35E	61	4.2b,3.8L			
GII	VI	05 22 38 38.8–.00	35.53N	29.39E	15–0	3.2,3.8L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=74.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=9.1.								
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=15.0.								
THE	Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=28.0.								
GII	Event type ke.								
ISC	**VI**	**06 16 17 49.3–.93**	**35.72N–.03**	**27.58E–.02**	**16–8**		**129**	**0-5**	
DDA	VI	06 16 17 46.7	35.67N	27.20E	82	3.5			¶16882860
ATH	VI	06 16 17 49.5	35.70N	27.52E	27–1	3.3L			
THE	VI	06 16 17 49.7	35.72N	27.53E	2–1	3.3L			
ISCJB	VI	06 16 17 50.8–.55	35.70N–.04	27.48E–.03	22–5	3.3L			
CSEM	VI	06 16 17 50.4–.20	35.70N	27.49E	15	3.4			
ISK	VI	06 16 17 50.1	35.68N	27.51E	18	3.4			
ISC	Event type ke.								
DDA	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=3.3km s-min=1.2km az=141.0.								
THE	Event type ke. Error ellipse: s-maj=1.6km s-min=0.4km az=139.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.7km s-min=3.6km az=151.5.								
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=3.1km az=157.0.								
ISC	**VI**	**06 17 26 25.6–1.1**	**36.96N–.04**	**28.24E–.03**	**3–11**		**30**	**0-1**	
ISCJB	VI	06 17 26 25.4–.62	36.96N–.05	28.27E–.06	9–7				¶17555600
DDA	VI	06 17 26 25.9	36.98N	28.22E	7	2.6L			
ISK	VI	06 17 26 25.9	36.99N	28.31E	8	2.5			
CSEM	VI	06 17 26 26.2–.29	36.96N	28.24E	2	2.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=10.1km s-min=4.9km az=41.8.								
DDA	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=24.0.								
ISC	**VI**	**07 11 59 44.4–1.5**	**36.80N–.04**	**28.22E–.03**	**63–9**		**47**	**0-2**	
ISCJB	VI	07 11 59 44.3–.88	36.79N–.04	28.23E–.04	61–8				¶16882893
ISK	VI	07 11 59 44.4	36.60N	28.13E	20	2.7L			
CSEM	VI	07 11 59 44.8–.15	36.75N	28.22E	60	2.6L			
THE	VI	07 11 59 45.0	36.78N	28.21E	70–3	2.6L			
DDA	VI	07 11 59 46.6	37.09N	28.27E	7	2.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=5.3km az=26.3.								
CSEM	Event type ke. Error ellipse: s-maj=5.1km s-min=3.8km az=17.0.								
THE	Event type ke. Error ellipse: s-maj=3.4km s-min=0.9km az=36.0.								
ISC	**VI**	**09 15 34 23.4–1.9**	**35.41N–.07**	**27.81E–.06**	**9–12**		**35**	**1-2**	
ISCJB	VI	09 15 34 24.3–1.7	35.39N–.07	27.77E–.08	9–10				¶602546777
CSEM	VI	09 15 34 25.7–.69	35.43N	27.70E	12	2.5L			
ATH	VI	09 15 34 26.3	35.52N	27.64E	29–1	2.5L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=14.0km s-min=7.8km az=44.2.								
CSEM	Event type ke. Error ellipse: s-maj=17.9km s-min=7.0km az=139.0.								
ATH	Event type ke. Error ellipse: s-maj=5.2km s-min=1.5km az=322.0.								
ISC	**VI**	**09 22 18 18.4–1.3**	**36.97N–.04**	**28.11E–.03**	**3–11**		**29**	**0-1**	
DDA	VI	09 22 18 19.3	36.97N	28.12E	12	2.7L			¶17555746
ISK	VI	09 22 18 19.1	36.98N	28.24E	7	2.6			
CSEM	VI	09 22 18 20.0–.29	37.01N	28.21E	8	2.6			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=8.2km s-min=5.2km az=23.0.								
ISC	**VI**	**10 20 13 00.7–1.2**	**36.95N–.04**	**28.26E–.03**	**5–14**		**28**	**0-1**	
ISCJB	VI	10 20 13 00.7–.60	36.98N–.05	28.27E–.04	9–7				¶602862921
ISK	VI	10 20 13 00.8	36.98N	28.24E	7	2.6			
DDA	VI	10 20 13 01.0	36.97N	28.26E	7	2.5			
CSEM	VI	10 20 13 01.2–.21	36.99N	28.25E	10	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=4.6km az=30.5.								
CSEM	Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=27.0.								
ISC	**VI**	**10 23 25 36.5–1.2**	**36.85N–.04**	**27.64E–.03**	**3–12**		**26**	**0-1**	
CSEM	VI	10 23 25 36.2–1.2	36.80N	27.45E	10	2.6			¶17555797
ISCJB	VI	10 23 25 37.0–.88	36.83N–.05	27.55E–.07	5–8	2.6			
ISK	VI	10 23 25 37.0	36.86N	27.49E	17	2.7			
DDA	VI	10 23 25 39.3	36.95N	27.58E	7	2.6			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=28.3km s-min=11.0km az=44.0.								
ISCJB	Event type ke. Error ellipse: s-maj=10.7km s-min=6.7km az=139.8.								
ISC	**VI**	**11 12 36 47.6–1.2**	**36.57N–.05**	**28.73E–.03**	**29–13**		**42**	**0-2**	
DDA	VI	11 12 36 46.6	36.70N	28.75E	7	2.7			¶17555829
ISK	VI	11 12 36 46.9	36.49N	28.66E	29	2.3L			
CSEM	VI	11 12 36 47.3–.66	36.55N	28.69E	20	2.3L			
ISCJB	VI	11 12 36 48.2–.81	36.62N–.06	28.76E–.05	47–7	2.3L			
ISC	Event type ke.								
CSEM	Event type ke.								
ISCJB	Event type ke.								
ISC	**VI**	**11 18 30 11.9–1.0**	**37.45N–.03**	**26.67E–.03**	**16–8**		**49**	**0-2**	
ATH	VI	11 18 30 10.7	37.43N	26.75E	27–2	2.4L			¶17555843
DDA	VI	11 18 30 11.8	37.44N	26.67E	7	2.6			
ISK	VI	11 18 30 12.3	37.49N	26.64E	10	2.8			
ISCJB	VI	11 18 30 13.1–.48	37.46N–.03	26.68E–.03	17–7	2.8			
CSEM	VI	11 18 30 13.1–.23	37.46N	26.64E	20	2.4L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=4.7km s-min=1.4km az=119.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=38.2.								
CSEM	Event type ke. Error ellipse: s-maj=6.4km s-min=6.0km az=7.0.								
THE	**VI**	**12 07 49 59.7**	**36.41N**	**25.42E**	**3–1**	**1.5L**			
CSEM	VI	12 07 49 59.7	36.41N	25.42E	3	1.5L			¶601078506
THE	Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=102.0.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**VI**	**12 15 50 50.9–.86**	**36.62N–.02**	**25.67E–.02**	**16–7**		**68**	**0-2**	
ATH	VI	12 15 50 49.7	36.60N	25.70E	26–1	2.9L			¶16883013
THE	VI	12 15 50 50.5	36.61N	25.72E	12–0	2.8L			
DDA	VI	12 15 50 50.7	36.67N	25.64E	4	3.1			
ISCJB	VI	12 15 50 51.6–.45	36.60N–.03	25.63E–.04	9–4	3.1			
CSEM	VI	12 15 50 51.4–.19	36.59N	25.58E	12	2.9L			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=2.4km s-min=1.3km az=263.0.								
THE	Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=97.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.0km s-min=4.4km az=30.4.								
CSEM	Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=119.0.								
ISC	**VI**	**12 22 45 31.0–.97**	**36.28N–.02**	**27.14E–.03**	**11–10**		**48**	**0-2**	
DDA	VI	12 22 45 29.2	36.29N	26.98E	4	2.6			¶17555901
ATH	VI	12 22 45 30.2	36.29N	27.09E	22–3	2.1L			
CSEM	VI	12 22 45 30.9–.19	36.30N	27.12E	12	2.7			
ISCJB	VI	12 22 45 31.2–.54	36.29N–.02	27.15E–.06	11–5	2.7			
ISK	VI	12 22 45 31.2	36.30N	27.26E	8	2.7			
ISC	Event type ke.								
ATH	Event type ke. Error ellipse: s-maj=4.0km s-min=0.8km az=58.0.								
CSEM	Event type ke. Error ellipse: s-maj=6.5km s-min=3.2km az=102.0.								
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=3.6km az=14.2.								
ISC	**VI**	**12 23 29 32.7–1.1**	**36.60N–.04**	**28.82E–.02**	**6–8**		**55**	**0-2**	
ISCJB	VI	12 23 29 32.2–.83	36.57N–.05	28.82E–.03	2–5				¶17555902
CSEM	VI	12 23 29 32.6–.33	36.59N	28.83E	8	2.7			
DDA	VI	12 23 29 32.5	36.58N	28.78E	7	2.7			
ISK	VI	12 23 29 32.5	36.66N	28.86E	10	2.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.1km s-min=4.3km az=13.6.								
CSEM	Event type ke. Error ellipse: s-maj=7.5km s-min=3.6km az=17.0.								
ISC	**VI**	**13 01 32 36.2–1.2**	**36.49N–.04**	**28.80E–.03**	**7–9**		**46**	**0-2**	
ISCJB	VI	13 01 32 35.5–.96	36.44N–.05	28.77E–.04	2–6				¶17555904
CSEM	VI	13 01 32 35.9–.36	36.45N	28.78E	8	2.6			
DDA	VI	13 01 32 36.0	36.51N	28.81E	7	2.6			
ISK	VI	13 01 32 36.2	36.52N	28.77E	10	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=5.6km az=6.7.								
CSEM	Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=8.0.								
ISC	**VI**	**13 21 29 58.0–1.4**	**35.48N–.07**	**27.72E–.04**	**15–10**		**42**	**0-2**	
ISK	VI	13 21 29 58.6	35.63N	27.63E	5	2.5L			¶17555923
ISCJB	VI	13 21 29 59.6–1.1	35.60N–.05	27.63E–.06	3–8	2.5L			
CSEM	VI	13 21 29 59.7–.29	35.60N	27.63E	2	1.9L			
ATH	VI	13 21 30 00.7	35.81N	27.41E	11–4	1.9L			
DDA	VI	13 21 30 30.0	35.93N	27.75E	21	3.2			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=10.1km s-min=5.3km az=141.1.								
CSEM	Event type ke. Error ellipse: s-maj=8.1km s-min=3.5km az=146.0.								
ATH	Event type ke. Error ellipse: s-maj=9.4km s-min=1.4km az=141.0.								
DDA	Event type ke.								
ISC	**VI**	**14 04 41 30.3–2.1**	**35.4N–.10**	**27.77E–.07**	**30**		**24**	**1-3**	
ISK	VI	14 04 41 30.8	35.51N	27.71E	7	3.0			¶17555930
CSEM	VI	14 04 41 31.4–.41	35.57N	27.72E	2	3.0			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=10.9km s-min=4.2km az=156.0.								
ISC	**VI**	**15 00 53 45.3–1.1**	**36.97N–.02**	**28.23E–.02**	**2–9**		**82**	**0-2**	
ISCJB	VI	15 00 53 44.9–.41	36.97N–.02	28.24E–.02	2–5				¶16883049
DDA	VI	15 00 53 44.7	37.00N	28.14E	7	3.0L			
THE	VI	15 00 53 44.2	36.96N	28.24E	0–1	2.5L			
ISK	VI	15 00 53 45.1	36.98N	28.25E	7	2.9L			
CSEM	VI	15 00 53 45.4–.15	36.97N	28.23E	5	2.9L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=8.2.								
THE	Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=238.0.								
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=13.0.								
ISC	**VI**	**15 07 43 23.0–1.0**	**36.96N–.05**	**28.27E–.03**	**9–11**		**20**	**0-1**	
ISCJB	VI	15 07 43 22.8–.77	36.97N–.07	28.30E–.09	12–12				¶17555967
CSEM	VI	15 07 43 23.4–.27	36.99N	28.27E	12	2.2L			
ISK	VI	15 07 43 23.3	36.99N	28.28E	10	2.2L			
DDA	VI	15 07 43 23.0	36.98N	28.27E	7	2.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=15.6km s-min=6.1km az=43.1.								
CSEM	Event type ke. Error ellipse: s-maj=7.1km s-min=5.2km az=12.0.								
ISC	**VI**	**15 17 43 25.7–1.3**	**36.08N–.05**	**27.91E–.04**	**41–12**		**24**	**0-2**	

CSEM VI 15 17 43 23.5–.38 35.73N 28.14E 10 1.8L ¶600917910
ATH VI 15 17 43 23.9 35.81N 28.09E 30–2 1.8L
ISCJB VI 15 17 43 24.5–.73 36.12N–.05 27.95E–.05 51–9 1.8L
ISC Event type ke.
CSEM Event type ke.
ATH Event type ke.
ISCJB Event type ke.
ISC VI 15 18 23 11.3–.73 36.59N–.02 28.87E–.02 16–4 3.9b,2.8s 636 0-77
IDC VI 15 18 23 08.5–.61 36.58N 28.88E 0 4.0,4.0 ¶16614400
NSSC VI 15 18 23 10.1–1.3 36.51N 28.94E 0–71 3.2L,4.0
ISK VI 15 18 23 10.4 36.61N 28.82E 8 3.8L,4.0
DDA VI 15 18 23 10.9 36.60N 28.77E 26 4.0L,4.0
ATH VI 15 18 23 10.5 36.65N 28.83E 18–0 3.9L,4.0
THE VI 15 18 23 11.8 36.62N 28.85E 2–1 4.0L,4.0
NEIC VI 15 18 23 11.8 36.62N 28.85E 2 4.0L,4.0
CSEM VI 15 18 23 11.2–.08 36.54N 28.88E 10 4.0L,4.0
ISCJB VI 15 18 23 11.4–.30 36.54N–.01 28.90E–.01 28–2 3.8b,2.8s
NIC VI 15 18 23 13.3–.30 36.31N 28.67E 25 4.3b,4.0L
HLW VI 15 18 23 15.7 36.36N 28.87E 33–27 3.8L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=13.3km s-min=11.1km az=178.0.
NSSC Error ellipse: s-maj=27.8km s-min=126.7km az=-1.0.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=179.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=101.0.
NEIC Event type se. After THE.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=14.9.
ISC VI 15 19 30 01.5–.99 36.61N–.03 28.82E–.02 7–8 48 0-2
ISK VI 15 19 30 00.3 36.61N 28.82E 3 2.7 ¶17555976
ATH VI 15 19 30 00.1 36.69N 28.79E 15–3 1.9L
ISCJB VI 15 19 30 01.4–.49 36.60N–.03 28.81E–.03 4–5 1.9L
DDA VI 15 19 30 01.7 36.66N 28.84E 7 2.8
CSEM VI 15 19 30 01.2–.19 36.60N 28.82E 5 2.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.5km s-min=1.4km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=28.5.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=15.0.
ISC VI 15 19 33 04.1–.90 35.56N–.03 27.29E–.02 15–7 133 0-5
ATH VI 15 19 33 02.8 35.51N 27.31E 23–1 3.1L ¶16883068
CSEM VI 15 19 33 04.2–.14 35.55N 27.29E 12 3.5
ISCJB VI 15 19 33 04.2–.53 35.52N–.03 27.31E–.03 20–4 3.5
ISK VI 15 19 33 04.3 35.59N 27.27E 17 3.5
THE VI 15 19 33 05.2 35.59N 27.28E 7–1 3.2L
DDA VI 15 19 33 13.6 36.20N 27.50E 52 3.2
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=132.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.2km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.5km az=159.2.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=153.0.
ISC VI 17 09 49 06.1–.92 37.89N–.03 26.98E–.04 12–8 28 0-1
ISCJB VI 17 09 49 05.9–.64 37.87N–.04 26.96E–.06 10–11 ¶17556037
DDA VI 17 09 49 05.7 37.87N 26.94E 6 2.6
ISK VI 17 09 49 06.1 37.90N 27.07E 28 2.5
CSEM VI 17 09 49 06.1–.13 37.87N 27.01E 15 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.0km az=143.1.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=58.0.
ISC VI 17 14 41 11.8–.96 37.81N–.02 26.90E–.03 12–8 44 0-3
ISCJB VI 17 14 41 11.4–.59 37.80N–.03 26.88E–.05 7–5 ¶17556044
CSEM VI 17 14 41 11.6–.23 37.80N 26.88E 10 2.8
DDA VI 17 14 41 12.0 37.84N 26.94E 8 2.8
ISK VI 17 14 41 11.1 37.80N 26.90E 13 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=146.7.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.1km az=62.0.
ATH VI 17 22 03 50.0 35.63N 27.10E 24–2 2.4L
CSEM VI 17 22 03 50.0 35.63N 27.10E 24 2.4L ¶602547016
ATH Event type ke. Error ellipse: s-maj=6.7km s-min=1.2km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 18 07 01 35.4–1.2 36.53N–.07 27.64E–.04 15 19 0-2
ISCJB VI 18 07 01 35.1–1.3 36.51N–.08 27.60E–.08 15 ¶17556056
CSEM VI 18 07 01 35.4–.21 36.51N 27.61E 8 2.4
ISK VI 18 07 01 35.0 36.52N 27.61E 12 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=6.7km az=35.6.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.6km az=21.0.
ISC VI 18 14 57 19.4–.58 35.38N–.03 27.77E–.02 26–4 4.4b,3.9s 1025 1-116
HLW VI 18 14 57 14.5 35.73N 27.83E 27–12 3.5,3.9s ¶16631905
DDA VI 18 14 57 16.8 35.26N 27.67E 27 4.6L,3.9s
IDC VI 18 14 57 18.2–2.5 35.46N 27.64E 17–15 4.3,4.2L
MOS VI 18 14 57 18.9–1.3 35.32N 27.80E 33 4.5b,4.2L
ISCJB VI 18 14 57 19.1–.18 35.27N–.01 27.80E–.01 44–2 4.3b,3.9s
NEIC VI 18 14 57 19.0 35.42N 27.75E 26 4.9L,4.7L
ATH VI 18 14 57 19.0 35.43N 27.75E 26–0 4.7L,4.7L
CSEM VI 18 14 57 19.3–.10 35.28N 27.79E 20 4.7b,4.7L
PDG VI 18 14 57 19.2–.68 35.39N 27.76E 15–1 4.7L,4.7L
ISK VI 18 14 57 19.0 35.47N 27.74E 14 4.6L,4.7L
THE VI 18 14 57 20.1 35.46N 27.76E 0–1 4.8L,4.7L
NIC VI 18 14 57 21.7–.40 35.78N 27.92E 25 5.1b,4.9L
NSSC VI 18 14 57 22.3–1.8 35.58N 28.17E 29–261 3.9L,4.9L
GII VI 18 14 57 25.0–.00 35.28N 28.23E 30 4.3b,4.2
BEO VI 18 14 57 58.6–1.4 37.53N 25.63E 0 3.5,4.2
ISC Event type ke.
IDC Error ellipse: s-maj=12.3km s-min=9.7km az=174.0.
MOS Error ellipse: s-maj=5.6km s-min=2.9km az=98.8.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.5km az=26.8.
NEIC Event type se. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=325.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=25.0.
PDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=90.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=146.0.
NSSC Error ellipse: s-maj=19.7km s-min=189.8km az=-1.0.
GII Event type ke.
BEO Event type ke.
ISC VI 18 15 41 55.4–1.2 35.37N–.04 27.75E–.02 11–9 92 1-4
DDA VI 18 15 41 53.8 35.43N 27.77E 6 3.9L ¶16883198
ISK VI 18 15 41 54.4 35.34N 27.74E 7 3.2
ISCJB VI 18 15 41 54.8–.98 35.35N–.04 27.75E–.03 8–7 3.2
ATH VI 18 15 41 55.7 35.38N 27.69E 28–2 3.0L
CSEM VI 18 15 41 55.8–.26 35.39N 27.72E 10 3.1L
THE VI 18 15 41 56.7 35.44N 27.66E 0–1 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.6km az=169.7.
ATH Event type ke. Error ellipse: s-maj=5.9km s-min=1.4km az=331.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.4km az=165.0.
THE Event type ke. Error ellipse: s-maj=3.4km s-min=1.0km az=145.0.
ISC VI 19 00 20 14.3–1.6 35.48N–.06 27.68E–.04 13–12 42 0-4
ISCJB VI 19 00 20 13.2–1.2 35.40N–.06 27.74E–.05 11–9 ¶600918009
ATH VI 19 00 20 13.8 35.45N 27.71E 30–2 2.3L
CSEM VI 19 00 20 14.0–.27 35.41N 27.69E 15 2.3L
DDA VI 19 00 20 22.7 36.20N 28.16E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.1km az=162.6.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.7km az=332.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=3.8km az=165.0.
ISC VI 19 00 24 23.0–1.4 35.40N–.05 27.77E–.03 14–11 61 1-32
IDC VI 19 00 24 20.5–2.2 35.39N 27.74E 0 3.3,3.3b ¶17206500
ATH VI 19 00 24 24.8 35.46N 27.72E 31–1 2.6L,3.3b
ISCJB VI 19 00 24 26.0–.88 35.47N–.06 27.71E–.04 30–6 3.1b,3.3b
CSEM VI 19 00 24 25.4–.37 35.44N 27.73E 15 2.6L,3.3b
DDA VI 19 00 24 30.1 35.78N 27.94E 54 3.0L,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=66.7km s-min=23.7km az=143.0.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.5km az=333.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.3km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=12.7km s-min=5.2km az=162.0.
ISC VI 19 00 27 55.9–1.4 35.54N–.05 27.72E–.03 1–13 32 0-2
ATH VI 19 00 27 56.9 35.38N 27.72E 28–3 2.2L ¶600918011
CSEM VI 19 00 27 58.4–.36 35.51N 27.69E 15 2.2L
DDA VI 19 00 28 32.0 36.15N 28.10E 14 2.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=7.5km s-min=1.5km az=334.0.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=5.1km az=157.0.
ISC VI 19 09 03 22.8–1.1 36.87N–.05 27.48E–.05 14–8 22 0-1
DDA VI 19 09 03 22.9 36.94N 27.63E 7 2.6 ¶17556088
ISK VI 19 09 03 22.6 36.88N 27.48E 19 2.5
ISCJB VI 19 09 03 23.4–.94 36.88N–.06 27.43E–.07 16–12 2.5
CSEM VI 19 09 03 23.0–.29 36.88N 27.47E 15 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=7.7km az=44.2.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.6km az=25.0.
ISC VI 19 23 36 36.0–1.1 36.95N–.04 28.29E–.03 5–12 24 0-1
ISK VI 19 23 36 34.9 36.97N 28.31E 18 2.6 ¶17556110
DDA VI 19 23 36 37.0 36.92N 28.22E 7 2.4
CSEM VI 19 23 36 36.2–.41 36.94N 28.27E 2 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=6.2km az=8.0.
ISC VI 21 06 57 23.5–1.0 35.28N–.03 27.80E–.02 29–8 4.0b 265 1-78
IDC VI 21 06 57 19.5–.81 35.39N 27.75E 0 3.9b,3.9 ¶16646061
DDA VI 21 06 57 19.6 35.20N 27.60E 18 3.6L,3.9
ISK VI 21 06 57 21.5 35.10N 27.62E 26 3.6L,3.9
ATH VI 21 06 57 23.6 35.38N 27.75E 30–1 3.7L,3.9
NEIC VI 21 06 57 24.7 35.34N 27.76E 10 4.0L,3.7b
CSEM VI 21 06 57 24.1–.22 35.30N 27.78E 20 3.8L,3.7b
THE VI 21 06 57 24.7 35.44N 27.75E 0–0 3.8L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=13.7km az=162.0.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=147.0.
NEIC Event type se. After ATH.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.3km az=162.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=144.0.
ISC VI 23 04 56 26.0–1.1 36.51N–.02 28.33E–.02 4–10 63 0-3
ISCJB VI 23 04 56 25.9–.57 36.49N–.03 28.34E–.03 6–5 ¶17556219
ATH VI 23 04 56 25.2 36.53N 28.33E 17–5 2.7L
DDA VI 23 04 56 26.4 36.51N 28.37E 7 3.0
ISK VI 23 04 56 26.3 36.52N 28.36E 11 3.1
CSEM VI 23 04 56 26.2–.17 36.49N 28.35E 10 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.9km az=155.3.
ATH Event type ke. Error ellipse: s-maj=6.3km s-min=1.3km az=189.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=173.0.
ISC VI 23 11 51 15.9–1.3 35.38N–.06 27.78E–.04 3–12 44 1-3
ISCJB VI 23 11 51 17.8–1.3 35.40N–.06 27.75E–.05 7–7 ¶16880987
ATH VI 23 11 51 17.4 35.31N 27.75E 19–2 2.9L
CSEM VI 23 11 51 18.4–.40 35.39N 27.74E 10 3.1L
THE VI 23 11 51 19.3 35.43N 27.69E 11–3 3.1L
DDA VI 23 11 52 02.1 35.12N 27.45E 37 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=4.4km az=151.7.
ATH Event type ke. Error ellipse: s-maj=4.3km s-min=1.3km az=336.0.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=5.1km az=153.0.
THE Event type ke. Error ellipse: s-maj=4.5km s-min=0.9km az=300.0.
DDA Event type ke.
ISC VI 23 12 42 03.9–1.2 35.39N–.03 27.72E–.02 14–8 146 0-5
DDA VI 23 12 42 02.0 35.26N 27.61E 80 3.7 ¶16880988
ATH VI 23 12 42 02.8 35.32N 27.74E 23–1 3.1L
ISCJB VI 23 12 42 03.6–.78 35.38N–.04 27.72E–.03 14–4 3.1L
CSEM VI 23 12 42 04.4–.21 35.40N 27.72E 15 3.3L
ISK VI 23 12 42 04.7 35.55N 27.69E 13 3.3L
THE VI 23 12 42 05.1 35.44N 27.67E 5–1 3.2L
ISC Event type ke.
DDA Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=329.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=2.9km az=158.3.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=2.6km az=159.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=316.0.
ISC VI 24 08 37 10.0–1.4 36.32N–.04 27.63E–.04 59–12 34 0-2
DDA VI 24 08 37 08.4 36.30N 27.60E 56 2.9 ¶600918175
ATH VI 24 08 37 08.6 36.28N 27.64E 73–3 2.9L
ISCJB VI 24 08 37 09.3–.77 36.29N–.05 27.61E–.05 66–10 2.9L
CSEM VI 24 08 37 09.8–.27 36.32N 27.61E 64–4 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.7km s-min=1.8km az=145.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.0km az=154.2.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.0km az=159.0.
ISC VI 24 15 14 51.3–.78 36.98N–.02 27.41E–.02 10–5 3.9b 106 0-42
DDA VI 24 15 14 49.8 36.94N 27.40E 5 3.3 ¶16731380
IDC VI 24 15 14 50.4–1.5 36.83N 27.53E 0 3.8b,3.7
ISK VI 24 15 14 50.8 37.01N 27.43E 12 3.4L,3.7
ATH VI 24 15 14 51.0 37.00N 27.40E 29–1 3.5L,3.7
THE VI 24 15 14 51.9 37.00N 27.42E 11–1 3.6L,3.7
ISCJB VI 24 15 14 51.3–.34 37.01N–.02 27.42E–.03 11–2 3.7b,3.7
CSEM VI 24 15 14 51.4–.14 37.02N 27.40E 10 3.4L,3.7
IASPE VI 24 15 14 51.2–.86 36.99N–.02 27.42E–.03 11–5 3.9b,3.7
ISC Event type ke.
DDA Event type ke.
ATH Event type ke.
THE Event type ke.
ISCJB Event type ke.
CSEM Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISC VI 24 16 14 22.4–2.4 36.9N–.10 27.47E–.07 8–14 20 0-1
ISK VI 24 16 14 24.8 37.01N 27.45E 4 2.8 ¶17556261
DDA VI 24 16 14 25.9 37.05N 27.47E 7 2.6
CSEM VI 24 16 14 25.2–.45 36.99N 27.44E 5 2.8
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=5.7km az=8.0.
ISC VI 24 17 52 42.5–1.5 36.76N–.06 27.33E–.04 17–8 32 0-2
CSEM VI 24 17 52 43.3–.68 36.76N 27.20E 15 2.8 ¶17556265
ISK VI 24 17 52 44.3 36.90N 27.23E 26 2.8
DDA VI 24 17 52 47.5 36.99N 27.40E 6 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.1km s-min=12.1km az=11.0.
DDA Event type ke.
ISC VI 24 21 00 25.8–1.4 36.96N–.06 27.44E–.04 7–9 31 0-2
DDA VI 24 21 00 25.7 36.98N 27.41E 7 2.6 ¶17556271
ISK VI 24 21 00 25.7 37.01N 27.45E 4 2.8
ISCJB VI 24 21 00 26.0–1.0 36.99N–.06 27.44E–.05 5–6 2.8
CSEM VI 24 21 00 26.3–.31 36.99N 27.44E 2 2.6
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=5.8km az=19.3.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=3.6km az=22.0.
ISC VI 24 22 24 15.5–1.3 36.94N–.07 27.44E–.05 13–7 19 0-2
ISK VI 24 22 24 13.3 37.00N 27.34E 5 3.1 ¶602863453
ISCJB VI 24 22 24 14.8–1.4 36.9N–.10 27.51E–.08 14–7 3.1
CSEM VI 24 22 24 15.1–.69 36.93N 27.41E 10 3.1

DDA VI 24 22 24 17.5 37.06N 27.46E 8 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=7.7km az=24.2.
CSEM Event type ke. Error ellipse: s-maj=19.3km s-min=12.5km az=13.0.
ISC VI 25 07 18 36.2–.72 37.00N–.02 27.43E–.02 10–4 3.9b 367 0-78
HLW VI 25 07 18 33.5 37.27N 27.47E 33–14 4.4 **¶16704933**
IDC VI 25 07 18 34.4–.77 36.98N 27.47E 0 4.0b,3.9
DDA VI 25 07 18 34.8 37.00N 27.37E 13 3.9L,3.9
IASPE VI 25 07 18 36.0–.91 37.01N–.02 27.44E–.03 11–5 3.9b,3.9
ISCJB VI 25 07 18 35.9–.39 36.98N–.01 27.44E–.02 15–2 3.8b,3.9
ATH VI 25 07 18 35.9 37.01N 27.41E 29–1 4.0L,3.9
ISK VI 25 07 18 35.0 36.98N 27.40E 8 3.7L,3.9
THE VI 25 07 18 36.8 37.01N 27.42E 6–2 4.0L,3.9
CSEM VI 25 07 18 36.4–.09 36.98N 27.41E 10 3.9L,3.9
NEIC VI 25 07 18 36.6 37.11N 27.43E 5 4.0L,4.0L
NIC VI 25 07 18 38.8–.40 37.05N 27.52E 38 4.2b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=13.5km az=148.0.
DDA Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=87.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=6.1.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=243.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=202.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=16.0.
NEIC Event type se. After ISK.
ISC VI 25 09 54 30.8–.80 36.98N–.02 27.42E–.02 12–5 77 0-2
ISK VI 25 09 54 30.8 37.02N 27.39E 16 2.9 **¶16881043**
ISCJB VI 25 09 54 31.3–.38 37.00N–.02 27.39E–.03 9–3 2.9
CSEM VI 25 09 54 31.2–.14 36.99N 27.39E 10 3.0
ATH VI 25 09 54 31.0 36.96N 27.39E 27–3 2.7L
DDA VI 25 09 54 31.7 37.08N 27.52E 4 3.0
THE VI 25 09 54 32.0 36.98N 27.37E 9–3 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=167.6.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=83.0.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.2km az=230.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=200.0.
ISC VI 25 11 48 16.9–.90 37.66N–.05 26.88E–.04 13–6 22 0-2
ISCJB VI 25 11 48 16.8–.63 37.63N–.05 26.91E–.05 12–5 **¶17556292**
ATH VI 25 11 48 16.9 37.64N 26.87E 13–3 2.1L
CSEM VI 25 11 48 16.8–.16 37.65N 26.88E 12 2.7
ISK VI 25 11 48 17.1 37.66N 26.94E 23 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.4km az=22.9.
ATH Event type ke. Error ellipse: s-maj=7.6km s-min=2.1km az=78.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.1km az=19.0.
ISC VI 26 07 18 41.5–1.2 36.86N–.03 28.95E–.02 2–11 52 0-2
ISK VI 26 07 18 40.8 36.80N 28.95E 7 3.0 **¶17556312**
ISCJB VI 26 07 18 41.3–.62 36.80N–.04 28.94E–.03 6–5 3.0
CSEM VI 26 07 18 41.6–.17 36.85N 28.95E 8 3.0
DDA VI 26 07 18 41.3 36.87N 28.89E 7 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.0km az=171.7.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=175.0.
DDA Event type ke.
ISC VI 27 09 02 35.7–1.3 36.98N–.06 27.62E–.04 2–13 26 0-1
ISCJB VI 27 09 02 36.8–1.5 36.95N–.09 27.45E–.07 9–5 **¶17556355**
ISK VI 27 09 02 36.8 37.00N 27.48E 5 2.4L
CSEM VI 27 09 02 37.7–.29 36.99N 27.47E 2 2.4L
DDA VI 27 09 02 37.1 36.97N 27.40E 6 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=6.2km az=27.5.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.5km az=21.0.
DDA Event type ke.
ISC VI 27 10 47 01.3–1.3 36.76N–.05 28.21E–.03 2–11 31 0-1
ISK VI 27 10 46 59.9 36.73N 28.20E 5 2.5 **¶17556357**
CSEM VI 27 10 47 02.0–.36 36.77N 28.21E 10 2.5
DDA VI 27 10 47 02.2 36.75N 28.21E 6 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=4.6km az=14.0.
ISC VI 27 19 14 06.1–1.5 36.65N–.04 26.72E–.04 108–14 60 1-4
ATH VI 27 19 14 03.6 36.57N 26.75E 143–5 3.0L **¶17556382**
ISK VI 27 19 14 04.2 36.58N 26.44E 30 3.0L
ISCJB VI 27 19 14 05.5–.84 36.66N–.05 26.68E–.05 107–12 3.0L
CSEM VI 27 19 14 06.5–.21 36.66N 26.71E 100 3.0L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.1km s-min=1.8km az=132.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.8km az=145.6.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=4.9km az=157.0.
ISC VI 27 19 25 00.2–.80 37.64N–.02 26.89E–.02 12–5 161 0-4
DDA VI 27 19 24 59.2 37.60N 26.89E 5 3.0L **¶16881082**
ATH VI 27 19 24 59.4 37.66N 26.87E 27–1 2.9L
THE VI 27 19 25 00.8 37.71N 26.95E 8–0 3.2L
CSEM VI 27 19 25 00.5–.11 37.66N 26.85E 10 2.9L
ISK VI 27 19 25 00.1 37.65N 26.89E 13 3.0L
ISCJB VI 27 19 25 00.5–.48 37.67N–.02 26.87E–.02 13–3 3.0L
IASPE VI 27 19 25 00.5–.82 37.65N–.02 26.89E–.02 11–5 3.0L
ISC Event type ke.
ATH Event type ke.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISC VI 28 18 37 49.2–1.2 36.40N–.03 25.41E–.04 7–7 38 0-1
ATH VI 28 18 37 47.9 36.37N 25.43E 16–3 2.1L **¶603247132**
ISCJB VI 28 18 37 49.6–1.4 36.39N–.04 25.41E–.07 5–9 2.1L
THE VI 28 18 37 49.0 36.39N 25.40E 7–1 1.7L
CSEM VI 28 18 37 49.5–.22 36.36N 25.41E 2 2.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=8.0km s-min=2.7km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.8km az=12.6.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=39.6km s-min=8.5km az=97.0.
ISC VI 30 07 50 40.2–.77 37.00N–.02 27.46E–.02 12–4 178 0-5
THE VI 30 07 50 39.8 37.02N 27.47E 1–0 3.4L **¶16881138**
ISK VI 30 07 50 39.8 37.03N 27.42E 15 3.2L
DDA VI 30 07 50 39.7 37.01N 27.43E 14 3.3
CSEM VI 30 07 50 40.7–.12 37.04N 27.45E 8 3.3
ISCJB VI 30 07 50 40.5–.32 37.03N–.02 27.43E–.02 11–2 3.3
ATH VI 30 07 50 40.4 37.01N 27.41E 29–1 3.2L
IASPE VI 30 07 50 40.1–.81 37.01N–.02 27.45E–.03 12–5 3.2L
ISC Event type ke.
THE Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ATH Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISC VI 30 15 27 52.1–.80 36.99N–.02 27.47E–.02 10–5 88 0-2
DDA VI 30 15 27 51.8 36.97N 27.40E 6 2.9 **¶16881156**
ATH VI 30 15 27 51.6 37.01N 27.49E 27–1 3.0L
CSEM VI 30 15 27 52.5–.13 37.01N 27.44E 10 2.9
THE VI 30 15 27 52.7 37.01N 27.44E 10–0 3.2L
ISK VI 30 15 27 52.2 37.03N 27.44E 12 3.0
ISCJB VI 30 15 27 52.6–.37 37.00N–.02 27.43E–.03 9–3 3.0
ISC Event type ke.
DDA Event type ke.
ATH Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC VI 30 18 52 20.0–.84 36.95N–.02 27.47E–.02 11–5 63 0-2
ATH VI 30 18 52 20.9 36.96N 27.35E 30–1 2.4L **¶17556645**
ISK VI 30 18 52 20.9 36.98N 27.43E 7 2.9
ISCJB VI 30 18 52 21.2–.40 36.99N–.02 27.39E–.03 8–3 2.9
DDA VI 30 18 52 21.2 37.03N 27.42E 10 3.0
CSEM VI 30 18 52 21.2–.19 36.98N 27.41E 10 3.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=251.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=177.2.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=88.0.

(370) Crete.

ISC I 03 09 13 47.6–1.2 34.24N–.03 25.72E–.02 16–8 3.6b 191 1-78
IDC I 03 09 13 46.7–1.1 34.26N 25.75E 0 3.7,3.6 **¶16394769**
CSEM I 03 09 13 52.6–.14 34.35N 25.62E 30 3.5L,3.6
ATH I 03 09 13 52.3 34.39N 25.67E 38–1 3.5,3.6
HLW I 03 09 13 53.3 34.37N 25.65E 27–18 3.9,3.6L
THE I 03 09 13 54.6 34.45N 25.59E 25–3 3.5L,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=15.4km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.7km az=55.0.
ATH Error ellipse: s-maj=1.3km s-min=0.8km az=-1.0.
THE Event type ke. Error ellipse: s-maj=4.2km s-min=0.9km az=172.0.
ISC I 04 08 54 19.8–.88 34.79N–.05 24.19E–.02 18–3 3.6b 124 0-78
IDC I 04 08 54 15.6–1.3 34.82N 23.97E 0 3.7,3.7L **¶16394873**
ISCJB I 04 08 54 17.9–.94 34.61N–.05 24.15E–.03 19–5 3.6b,3.7L
CSEM I 04 08 54 19.9–.34 34.78N 24.20E 5 2.9,3.7L
THE I 04 08 54 20.3 34.80N 24.24E 0–1 3.2L,3.7L
ATH I 04 08 54 20.1 34.80N 24.17E 18–1 2.9,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=36.3km s-min=11.7km az=154.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.2km az=18.9.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.3km az=14.0.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=0.9km az=191.0.
ATH Error ellipse: s-maj=1.7km s-min=0.9km az=-1.0.
ATH I 04 20 01 16.5 34.22N 25.16E 29–3 3.5
CSEM I 04 20 01 16.5 34.22N 25.16E 29 3.5 **¶600871303**
ATH Error ellipse: s-maj=3.1km s-min=2.5km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 10 08 29 14.8–1.2 35.33N–.04 23.63E–.03 6–9 63 0-2
ISCJB I 10 08 29 14.1–.82 35.29N–.04 23.62E–.04 8–4 **¶16868904**
CSEM I 10 08 29 14.7–.17 35.33N 23.62E 2 2.7L
ATH I 10 08 29 14.6 35.34N 23.64E 15–1 3.5
THE I 10 08 29 15.2 35.36N 23.65E 1–3 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.8km az=34.8.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.0km az=42.0.
ATH Error ellipse: s-maj=0.7km s-min=0.8km az=-1.0.
THE Event type ke. Error ellipse: s-maj=4.4km s-min=1.0km az=206.0.
CSEM I 11 00 18 11.5 34.35N 24.27E 8 3.5
ATH I 11 00 18 11.5 34.35N 24.27E 8–6 3.5 **¶600871484**
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Error ellipse: s-maj=3.5km s-min=1.9km az=-1.0.
ISC I 11 23 35 04.9–1.4 35.20N–.05 23.27E–.05 25–13 112 1-4
ATH I 11 23 35 04.3 35.21N 23.24E 43–2 3.5 **¶16868925**
THE I 11 23 35 05.4 35.17N 23.25E 45–4 2.9L
CSEM I 11 23 35 05.6–.28 35.19N 23.26E 40 3.5
ISC Event type ke.
ATH Error ellipse: s-maj=2.6km s-min=2.2km az=-1.0.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=0.8km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=2.7km az=36.0.
ISC I 12 08 31 05.7–.96 34.80N–.05 24.04E–.03 23–5 3.4b 93 0-84
IDC I 12 08 31 00.9–1.4 35.26N 23.60E 0 3.7,3.7b **¶16395591**
ATH I 12 08 31 05.2 34.78N 24.01E 26–1 3.3,3.7b
ISCJB I 12 08 31 06.3–.83 34.82N–.05 24.02E–.04 22–3 4.0s,3.5b
CSEM I 12 08 31 07.0–.29 34.87N 24.07E 15 2.7L,3.5b
THE I 12 08 31 07.9 34.92N 24.10E 8–0 2.7L,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=39.1km s-min=13.5km az=174.0.
ATH Error ellipse: s-maj=2.7km s-min=1.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.8km az=23.9.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.3km az=23.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=212.0.
ISC I 14 17 11 21.6–1.0 35.93N–.02 25.54E–.02 12–9 84 0-2
CSEM I 14 17 11 21.7–.14 35.93N 25.55E 12 3.0 **¶16868971**
ATH I 14 17 11 21.9 35.94N 25.53E 19–2 3.0
THE I 14 17 11 21.8 35.92N 25.53E 6–0 2.5L
ISCJB I 14 17 11 22.3–.35 35.93N–.02 25.54E–.03 20–5 2.5L
ISC Event type ke.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC I 15 16 14 33.9–1.3 34.88N–.07 23.16E–.06 47–11 3.7b 76 1-78
ISCJB I 15 16 14 33.5–.94 34.88N–.06 23.16E–.07 63–6 3.6b **¶16395949**
THE I 15 16 14 33.9 34.91N 23.15E 17–3 3.2L
CSEM I 15 16 14 33.6–.40 34.86N 23.13E 30 3.3
IDC I 15 16 14 35.3–2.3 34.98N 23.17E 57–20 3.7,3.6
ATH I 15 16 14 38.7 35.11N 23.62E 43–3 3.3,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=6.4km az=44.0.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=1.0km az=215.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=3.9km az=33.0.
IDC Error ellipse: s-maj=21.8km s-min=19.6km az=6.0.
ATH Error ellipse: s-maj=3.7km s-min=4.4km az=-1.0.
ISC I 16 22 12 47.2–1.0 35.56N–.04 26.31E–.02 15–9 60 0-3
CSEM I 16 22 12 47.5–.27 35.55N 26.30E 10 3.2 **¶16868996**
ATH I 16 22 12 47.7 35.48N 26.32E 27–1 3.2
ISCJB I 16 22 12 48.1–.60 35.48N–.07 26.33E–.04 25–6 3.2
THE I 16 22 12 48.1 35.51N 26.27E 8–2 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.7km az=158.0.
ATH Error ellipse: s-maj=1.5km s-min=0.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=4.2km az=166.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=0.9km az=154.0.
ISC I 21 22 37 27.1–1.2 35.72N–.04 23.08E–.04 31–9 92 0-3
ATH I 21 22 37 24.5 35.69N 22.98E 44–1 3.5 **¶16871513**
ISCJB I 21 22 37 25.8–.74 35.68N–.06 23.03E–.07 42–12 3.5
CSEM I 21 22 37 25.9–.34 35.69N 23.04E 30 3.5
THE I 21 22 37 26.5 35.66N 23.00E 20–1 3.0L
ISC Event type ke.
ATH Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=4.4km az=44.9.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=3.8km az=43.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.8km az=52.0.
ISC I 22 14 58 25.4–1.2 34.76N–.04 25.09E–.02 8–7 3.6b 172 0-81
DDA I 22 14 56 54.1 33.34N 20.40E 3 0.0L **¶16396558**
IDC I 22 14 58 23.6–.90 34.70N 25.04E 0 3.8,3.7
ISCJB I 22 14 58 24.5–.70 34.71N–.03 25.08E–.02 2–4 3.5b,3.7
ATH I 22 14 58 24.4 34.71N 25.05E 5–1 3.7L,3.7
THE I 22 14 58 25.8 34.81N 25.07E 0–1 3.6L,3.7
CSEM I 22 14 58 27.8–.48 34.85N 25.12E 2 3.6L,3.7
ISC Event type ke.
DDA Event type ke.

IDC Error ellipse: s-maj=18.1km s-min=9.3km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.0km az=1.1.
ATH Error ellipse: s-maj=0.9km s-min=0.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=4.4km az=4.0.

ISC	**I**	**23 09 41 48.1–1.9**	**34.78N–.09**	**24.08E–.05**	**15–6**		**42**	**0-2**
THE	I	23 09 41 47.5	34.75N	24.04E	17–1	2.9L		**¶16871537**
ATH	I	23 09 41 48.7	34.81N	24.11E	11–0	3.5		
CSEM	I	23 09 41 49.1–.40	34.84N	24.13E	6–1	3.5		

ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=3.5km s-min=1.3km az=213.0.
ATH Error ellipse: s-maj=0.4km s-min=0.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=5.4km az=14.0.

ISC	**I**	**26 09 10 49.9–1.3**	**35.14N–.03**	**23.63E–.03**	**3–12**		**141**	**0-5**
THE	I	26 09 10 49.2	35.12N	23.63E	0–2	3.7L		**¶16871571**
ATH	I	26 09 10 49.1	35.14N	23.59E	12–1	3.6,3.3L		
CSEM	I	26 09 10 50.1–.31	35.17N	23.68E	2	3.7L,3.3L		

ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.9km az=232.0.
ATH Error ellipse: s-maj=1.0km s-min=0.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.3km az=31.0.

ISC	**I**	**26 19 55 11.0–2.1**	**34.9N–.10**	**26.43E–.04**	**9–11**		**39**	**0-2**
ISCJB	I	26 19 55 10.3–1.5	34.86N–.09	26.42E–.05	0–7			**¶16871585**
CSEM	I	26 19 55 10.8–.53	34.86N	26.39E	2	2.3L		
ATH	I	26 19 55 11.9	34.93N	26.42E	12–2	3.1		
THE	I	26 19 55 11.1	34.91N	26.39E	3–3	2.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=6.8km az=179.2.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=5.1km az=171.0.
ATH Error ellipse: s-maj=2.3km s-min=1.3km az=-1.0.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=1.5km az=18.0.

ISC	**I**	**27 18 15 06.6–.99**	**35.29N–.03**	**26.16E–.02**	**7–9**		**107**	**0-4**
DDA	I	27 18 15 06.2	35.30N	25.98E	26	3.1		**¶16358426**
ISCJB	I	27 18 15 06.8–.53	35.26N–.03	26.20E–.02	13–4	3.1		
ISK	I	27 18 15 06.6	35.32N	26.07E	10	3.4		
THE	I	27 18 15 06.9	35.27N	26.20E	2–1	3.1L		
ATH	I	27 18 15 06.0	35.23N	26.18E	22–2	3.1		
CSEM	I	27 18 15 07.0–.15	35.30N	26.16E	5	3.1		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.9km az=169.1.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=140.0.
ATH Error ellipse: s-maj=2.7km s-min=1.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=164.0.

ISC	**I**	**29 10 35 59.2–.59**	**35.52N–.03**	**26.66E–.02**	**21–3**	**3.8b**	**231**	**0-77**
ATH	I	29 10 35 57.9	35.61N	26.64E	23–0	3.4		**¶15995076**
ISK	I	29 10 35 57.5	35.48N	26.59E	26	3.3L		
ISCJB	I	29 10 35 58.5–.37	35.51N–.02	26.69E–.02	27–3	3.8b		
CSEM	I	29 10 35 58.4–.13	35.56N	26.64E	10	3.4		
THE	I	29 10 35 58.8	35.55N	26.64E	11–2	3.8L		
IDC	I	29 10 36 00.4–3.1	35.47N	26.68E	34–28	4.0L,3.8		
HLW	I	29 10 36 03.0	35.52N	27.02E	34–22	4.0,3.2L		
DDA	I	29 10 36 09.2	35.92N	27.42E	29	3.6,3.2L		

ISC Event type ke.
ATH Error ellipse: s-maj=0.6km s-min=0.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=166.4.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=167.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.7km az=146.0.
IDC Error ellipse: s-maj=22.5km s-min=13.5km az=172.0.
DDA Event type ke.

ISC	**II**	**02 23 26 29.6–1.4**	**35.28N–.07**	**23.13E–.07**	**51–11**	**3.7b**	**95**	**1-46**
IDC	II	02 23 26 17.0–8.0	34.83N	22.64E	0	3.7,3.7b		**¶16397481**
ATH	II	02 23 26 27.9	35.22N	23.03E	32–1	2.9L,3.7b		
ISCJB	II	02 23 26 29.1–1.0	35.29N–.07	23.11E–.08	66–6	3.4b,3.7b		
CSEM	II	02 23 26 30.1–.40	35.29N	23.12E	30	2.9L,3.7b		
THE	II	02 23 26 31.1	35.30N	23.17E	28–2	2.9L,3.7b		

ISC Event type ke.
IDC Error ellipse: s-maj=145.8km s-min=55.2km az=24.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=44.0. Analyst: M.Papanikolaou
ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=4.6km az=42.5.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=3.5km az=42.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=246.0.

ISC	**II**	**03 04 13 36.9–1.0**	**35.36N–.05**	**23.15E–.06**	**54–8**	**3.6b**	**103**	**1-46**
IDC	II	03 04 13 29.9–1.3	35.59N	22.95E	0	3.8,3.8		**¶16397490**
ATH	II	03 04 13 35.7	35.29N	23.08E	40–1	3.5L,3.8		
ISCJB	II	03 04 13 36.5–.70	35.36N–.05	23.16E–.07	71–4	3.6b,3.8		
CSEM	II	03 04 13 37.8–.29	35.36N	23.14E	40	3.7L,3.8		
THE	II	03 04 13 37.8	35.37N	23.15E	52–3	3.7L,3.8		

ISC Event type ke.
IDC Error ellipse: s-maj=25.1km s-min=20.0km az=4.0.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=57.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=4.5km az=139.6.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=2.4km az=44.0.
THE Event type ke. Error ellipse: s-maj=3.5km s-min=0.8km az=55.0.

ATH	**II**	**06 19 19 16.8**	**34.79N**	**25.72E**	**16–3**	**2.0L**		
CSEM	II	06 19 19 16.3–.40	34.74N	25.74E	2	2.0L		**¶16871785**
THE	II	06 19 19 16.2	34.74N	25.70E	4–6	2.0L		

ATH Event type ke. Error ellipse: s-maj=5.6km s-min=1.2km az=355.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=3.8km az=166.0.
THE Event type ke. Error ellipse: s-maj=6.2km s-min=0.7km az=102.0.

ISC	**II**	**07 17 52 47.0–.80**	**35.86N–.03**	**26.80E–.03**	**86–7**	**3.6b**	**217**	**0-44**
ISCJB	II	07 17 52 46.0–.23	35.82N–.02	26.79E–.02	93–4	3.4b		**¶16009490**
IDC	II	07 17 52 47.4–1.1	35.61N	26.74E	92–24	3.5,3.2		
CSEM	II	07 17 52 47.3–.10	35.83N	26.77E	80	3.4L,3.2		
ATH	II	07 17 52 47.3	35.93N	26.69E	72–4	3.4L,3.2		
ISK	II	07 17 52 48.1	35.93N	26.74E	32	3.1L,3.2		
THE	II	07 17 52 49.2	35.95N	26.71E	66–3	3.4L,3.2		
HLW	II	07 17 52 50.9	35.36N	26.98E	22–8	3.8,3.7L		
NIC	II	07 17 52 52.2–.20	36.24N	27.43E	50	4.3b,3.9L		
GII	II	07 17 52 53.2–.00	35.31N	27.21E	20–2	3.0,3.9L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=177.4.
IDC Error ellipse: s-maj=30.4km s-min=16.2km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=14.0.
ATH Event type ke. Error ellipse: s-maj=4.5km s-min=1.0km az=140.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=0.7km az=149.0.
GII Event type ke.

ISC	**II**	**08 01 46 34.3–.43**	**34.91N–.04**	**23.25E–.03**	**40–3**	**4.6b,3.5s**	**873**	**1-125**
IDC	II	08 01 46 28.9–.57	35.00N	23.34E	0	4.5b,4.4		**¶16009389**
HLW	II	08 01 46 29.8	35.17N	23.13E	22–24	4.3L,4.2		
MOS	II	08 01 46 29.9–1.5	34.84N	23.33E	18	4.8b,4.2		
ISCJB	II	08 01 46 31.1–.26	34.77N–.02	23.25E–.02	37–2	4.5b,3.7s		
BJI	II	08 01 46 32.1	35.09N	23.03E	48	5.0b,4.9s		
CSEM	II	08 01 46 33.5–.11	34.80N	23.21E	45	4.4b,4.3W		
ATH	II	08 01 46 34.7	35.00N	23.30E	30–0	4.3L,4.3W		
NEIC	II	08 01 46 34.7	35.00N	23.30E	30	4.5b,4.4L		
THE	II	08 01 46 36.9	35.07N	23.35E	73–2	4.4L,4.4L		
GII	II	08 01 46 40.2–.00	34.75N	24.36E	1–0	4.1b,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=13.8km s-min=10.8km az=9.0.
MOS Error ellipse: s-maj=5.3km s-min=2.8km az=83.2.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=44.4.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=42.0.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=39.0. ML Amplitudes are
expressed in micrometres All distances are expressed in km.
NEIC Event type se. After ATH.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=0.6km az=37.0.
GII Event type ke.

ISC	**II**	**13 04 24 13.3–.90**	**35.09N–.03**	**23.80E–.03**	**26–7**	**3.3b**	**110**	**0-60**
ISCJB	II	13 04 24 13.3–.68	35.06N–.04	23.75E–.04	17–6	3.1b		**¶16398093**
CSEM	II	13 04 24 13.6–.31	35.09N	23.80E	10	3.7L		
ATH	II	13 04 24 13.1	35.12N	23.81E	24–0	3.3L		
THE	II	13 04 24 14.4	35.14N	23.85E	2–2	3.7L		
IDC	II	13 04 24 16.9–4.5	35.24N	23.86E	65–45	3.7L,3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.2km az=31.9.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.6km az=27.0.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=45.0. Analyst: K.L. ML Amplitudes
are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=1.0km az=143.0.
IDC Error ellipse: s-maj=35.8km s-min=20.4km az=146.0.

ISC	**II**	**16 20 04 09.8–1.1**	**34.89N–.05**	**26.38E–.03**	**17–6**	**3.7b**	**148**	**0-66**
DDA	II	16 20 04 00.2	34.29N	26.00E	24	3.3		**¶16398362**
IDC	II	16 20 04 07.7–.93	34.89N	26.45E	0	3.8b,3.7		
ISCJB	II	16 20 04 08.7–.78	34.79N–.04	26.45E–.03	19–6	3.7b,3.7		
THE	II	16 20 04 10.8	34.92N	26.33E	3–3	3.5L,3.7		
CSEM	II	16 20 04 10.2–.36	34.89N	26.38E	10	3.4L,3.7		
ATH	II	16 20 04 11.8	35.08N	26.31E	22–1	3.4L,3.7		
ISK	II	16 20 04 11.2	34.89N	26.35E	32	3.1L,3.7		

ISC Event type ke.
DDA Event type ke.
IDC Error ellipse: s-maj=22.0km s-min=13.4km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.9km az=176.4.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=264.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=3.2km az=172.0.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.0km az=166.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**II**	**18 14 01 17.7–1.0**	**34.54N–.05**	**24.64E–.05**	**10**		**33**	**0-9**
HLW	II	18 14 01 16.8	34.87N	24.79E	40–24	3.7,2.7L		**¶600896647**
ISCJB	II	18 14 01 17.6–.66	34.42N–.04	24.68E–.08	10	3.7,2.7L		
CSEM	II	18 14 01 20.2–.35	34.54N	24.62E	30	2.8L,2.7L		
ATH	II	18 14 01 21.9	34.78N	24.61E	48–4	2.8L,2.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=4.7km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=7.0km az=62.0.
ATH Event type ke. Error ellipse: s-maj=5.2km s-min=1.7km az=192.0. Analyst: Plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**II**	**21 02 31 55.9–1.1**	**34.63N–.07**	**24.33E–.03**	**30–7**		**103**	**0-45**
IDC	II	21 02 31 51.2–1.6	34.47N	24.51E	0	3.5b,3.4		**¶16398640**
CSEM	II	21 02 31 57.7–.25	34.72N	24.31E	24–1	3.2L,3.4		
DDA	II	21 02 31 58.0	34.58N	25.10E	25	3.4,3.4		
ISK	II	21 02 31 57.1	34.70N	24.55E	22	3.1L,3.4		
THE	II	21 02 31 58.8	34.76N	24.32E	18–0	3.2L,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=49.4km s-min=25.1km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.9km az=17.0.
DDA Event type ke.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=196.0.

ISC	**II**	**22 07 57 09.9–.87**	**35.11N–.04**	**26.44E–.02**	**17–5**	**3.6b**	**173**	**0-78**
ATH	II	22 07 57 09.7	35.15N	26.42E	25–0	3.5L		**¶16398726**
IDC	II	22 07 57 10.7–3.5	35.12N	26.30E	35–26	3.6,3.5b		
CSEM	II	22 07 57 10.5–.31	35.16N	26.43E	10	3.8L,3.5b		
ISCJB	II	22 07 57 10.5–.52	35.14N–.04	26.44E–.02	21–4	3.6b,2.8s		
ISK	II	22 07 57 10.8	35.24N	26.41E	17	3.8,2.8s		
THE	II	22 07 57 11.2	35.18N	26.37E	5–1	3.8L,2.8s		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.8km az=171.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=47.2km s-min=18.7km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=3.3km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.2km az=172.4.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.7km az=161.0.

ISC	**II**	**23 05 29 27.2–.57**	**34.44N–.03**	**26.58E–.02**	**28–3**	**4.7b,3.6s**	**952**	**1-117**
BJI	II	23 05 29 20.6	34.41N	26.18E	10	5.0b,4.8b		**¶16117346**
ISCJB	II	23 05 29 24.0–.40	34.32N–.01	26.61E–.01	21–3	4.6b,3.6s		
IDC	II	23 05 29 23.3–.53	34.53N	26.54E	0	4.6,4.6b		
HLW	II	23 05 29 25.8	34.36N	26.78E	24–8	3.9L,3.6		
CSEM	II	23 05 29 25.9–.09	34.33N	26.59E	20	4.7b,3.6		
ATH	II	23 05 29 25.4	34.44N	26.57E	25–2	4.1L,3.6		
ISK	II	23 05 29 26.4	34.41N	26.60E	36	4.8,3.6		
MOS	II	23 05 29 26.9–1.1	34.51N	26.48E	33	5.0b,3.6		
THE	II	23 05 29 27.7	34.53N	26.48E	0–0	4.4L,3.6		
NIC	II	23 05 29 28.7–.20	35.01N	26.69E	25	4.6b,4.2L		
NEIC	II	23 05 29 29.0–.45	34.49N	26.55E	39–3	4.7b,4.2L		
GII	II	23 05 29 29.1–.00	34.19N	27.02E	15–0	3.3,4.2L		
NSSC	II	23 05 29 33.9–1.4	34.58N	28.37E	419–74	3.5L,4.2L		
DDA	II	23 05 29 44.3	35.66N	27.63E	27	3.7,4.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=31.6.
IDC Error ellipse: s-maj=14.0km s-min=9.6km az=177.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.8km az=33.0.
ATH Event type ke. Error ellipse: s-maj=5.2km s-min=1.6km az=341.0. Analyst: g.panopoulou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
MOS Error ellipse: s-maj=5.5km s-min=3.1km az=95.4.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=163.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.3km az=187.0.
GII Event type ke.
NSSC Error ellipse: s-maj=10.4km s-min=49.5km az=-1.0.
DDA Event type ke.

ISC	**II**	**23 12 08 38.7–.74**	**35.03N–.04**	**26.36E–.02**	**27–5**	**3.9b**	**256**	**0-78**
IDC	II	23 12 08 35.5–.87	35.31N	26.38E	0	4.0L,3.8		**¶16398795**
HLW	II	23 12 08 38.2	35.15N	26.52E	33–19	3.4,3.0L		
ISCJB	II	23 12 08 38.2–.41	34.98N–.02	26.39E–.02	30–3	3.7b,3.0s		
CSEM	II	23 12 08 38.8–.15	35.01N	26.35E	15	3.7L,3.0s		
ATH	II	23 12 08 39.9	35.23N	26.26E	24–1	3.7L,3.0s		
ISK	II	23 12 08 39.4	35.09N	26.18E	60	3.9,3.6L		
THE	II	23 12 08 40.6	35.23N	26.27E	1–0	3.8L,3.6L		
DDA	II	23 12 08 54.9	36.07N	27.60E	5	3.6,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=12.8km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=14.1.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=9.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=167.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=143.0.
DDA Event type ke.

ISC	**II**	**24 17 11 14.5–1.4**	**34.61N–.03**	**24.81E–.02**	**8–9**	**3.8s,3.8b**	**127**	**0-89**
HLW	II	24 17 11 11.6	35.00N	24.82E	33–22	3.4L,3.4		**¶16342394**
ISCJB	II	24 17 11 13.5–.76	34.49N–.02	24.78E–.03	9–5	3.8b,3.8s		
IDC	II	24 17 11 13.8–.91	34.80N	24.76E	0	3.9,3.9		
CSEM	II	24 17 11 14.6–.18	34.55N	24.77E	5	3.6L,3.9		
THE	II	24 17 11 15.8	34.64N	24.77E	0–1	3.8L,3.9		
ATH	II	24 17 11 16.4	34.67N	24.78E	14–2	3.6L,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=148.3.
IDC Error ellipse: s-maj=18.3km s-min=14.7km az=108.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=181.0.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.0km az=2.0. Analyst: KOLLIGRI ML
Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**II**	**28 07 49 06.8–.29**	**34.87N–.03**	**25.45E–.02**	**55–2**	**5.1b,4.7s**	**1760**	**0-144**
BJI	II	28 07 49 01.6	34.88N	24.90E	53	5.2b,5.1b		**¶16160709**
DDA	II	28 07 49 01.4	34.74N	25.39E	25	5.5L,5.1b		
MOS	II	28 07 49 02.8–1.3	34.80N	25.45E	33	5.5b,4.6s		
ISK	II	28 07 49 04.2	34.90N	25.35E	39	5.2L,4.6s		
ISCJB	II	28 07 49 04.5–.21	34.84N–.01	25.47E–.01	53–1	5.1b,4.7s		
PDG	II	28 07 49 05.9–.17	34.93N	24.42E	11–5	5.0L,4.7s		
SFS	II	28 07 49 06.0	34.82N	25.44E	50	5.2L,4.7s		

CSEM II 28 07 49 06.1–.09 34.81N 25.49E 62 5.2b,4.8s
NEIC II 28 07 49 07.0 34.98N 25.42E 53 5.2b,4.8s
HLW II 28 07 49 07.3 34.40N 25.88E 11–10 4.6L,4.3
THE II 28 07 49 07.3 34.87N 25.46E 55–1 5.1L,4.3
ATH II 28 07 49 07.0 34.98N 25.42E 53–1 5.2L,4.3
GCMT II 28 07 49 07.0–.30 34.73N 25.56E 33–1 5.7W,4.3
IDC II 28 07 49 07.4–.42 34.99N 25.39E 58–3 4.9,4.7
NIC II 28 07 49 11.6–.30 34.48N 26.12E 25 4.7b,4.2L
GII II 28 07 49 11.7–.00 34.71N 26.22E 30 4.8b,4.8
ISC Event type fe.
DDA Event type ke.
MOS Error ellipse: s-maj=4.6km s-min=2.6km az=88.7.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=11.2.
PDG Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=90.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=27.0.
NEIC Event type fe. Felt [III] at Ierapetra and Irakleio. Also felt at Agios Nikolaos, Arkalochori, Kokkini Khanion, Koutouloufarion, Koutsouras, Rethymno and Siteia. Felt at Alexandria, Egypt. After ATH.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=171.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=169.0. Analyst: G.Diakogianni ML Amplitudes are expressed in micrometres All distances are expressed in km.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c66; s66,c72; Duration: 1_S7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.07 $M_{\theta\theta}$-0.81±.05; $M_{\phi\phi}$0.02±.05; $M_{r\theta}$4.36±.22; $M_{\theta\phi}$-0.16±.04; $M_{\phi r}$-0.18±.11; Best double couple: NP1:ϕ_S92.00000°,δ85.00000°,λ92.00000°. NP2:ϕ_S246.00000°,δ6.00000°,λ64.00000°. Principal axes: T 4.4320,Plg50.0000°,Azm5.0000°; N 0.0140,Plg2.0000°,Azm272.0000°; P -4.4460,Plg40.0000°,Azm180.0000° M_o4.43900×10^{17}
IDC Error ellipse: s-maj=6.9km s-min=6.5km az=151.0.
GII Event type ke.
ATH III 02 14 13 15.8 34.89N 26.75E 13–4 2.7L
CSEM III 02 14 13 17.6–.89 35.02N 26.70E 8 2.8L **¶16872222**
THE III 02 14 13 17.2 35.06N 26.67E 0–1 2.8L
ATH Event type ke. Error ellipse: s-maj=5.8km s-min=1.3km az=337.0. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=22.6km s-min=6.6km az=159.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.0km az=155.0.
ISC III 03 17 15 10.9–1.2 34.25N–.03 25.35E–.04 29–13 37 1-5
CSEM III 03 17 15 09.6–.28 34.24N 25.31E 10 2.7L **¶600896992**
ATH III 03 17 15 09.1 34.21N 25.28E 22–2 2.7L
ISCJB III 03 17 15 09.7–1.1 34.19N–.05 25.31E–.06 21–13 2.7L
HLW III 03 17 15 13.2 34.24N 25.49E 30–12 3.1,3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=5.5km az=79.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.5km az=358.0. Analyst: McAris ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=7.3km az=149.0.
ISC III 05 02 54 40.8–1.7 34.37N–.07 25.09E–.04 4–11 33 1-44
ISCJB III 05 02 54 39.8–1.4 34.24N–.05 25.04E–.06 4–10 3.1b **¶17193260**
IDC III 05 02 54 41.0–1.4 34.41N 25.07E 0 3.3,3.2
CSEM III 05 02 54 45.8 34.57N 24.97E 31 2.7L,3.2
ATH III 05 02 54 45.9 34.57N 24.97E 31–1 2.7L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.7km az=140.8.
IDC Error ellipse: s-maj=24.0km s-min=12.1km az=76.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.6km az=352.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 05 19 59 32.9–.90 34.68N–.03 26.67E–.04 42–14 3.3b 144 1-44
IDC III 05 19 59 22.7–7.8 34.48N 25.77E 0 3.8,3.7 **¶16484434**
ISCJB III 05 19 59 31.8–.32 34.64N–.02 26.70E–.03 41–10 3.6b,3.7
HLW III 05 19 59 34.0 34.74N 26.66E 33–20 3.2,3.1L
CSEM III 05 19 59 33.5–.15 34.71N 26.59E 40 3.1L,3.1L
ATH III 05 19 59 33.0 34.72N 26.59E 42–3 3.0L,3.1L
ISK III 05 19 59 35.6 35.12N 26.56E 27 3.9,3.1L
THE III 05 19 59 36.3 34.94N 26.48E 53–3 3.1L,3.1L
GII III 05 19 59 40.7–.00 34.39N 27.26E 15 3.5,3.1L
DDA III 05 19 59 56.2 36.39N 27.42E 45 3.5,3.1L
ISC Event type ke.
IDC Error ellipse: s-maj=144.7km s-min=53.7km az=22.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=4.0km az=177.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=42.0.
ATH Event type ke. Error ellipse: s-maj=6.7km s-min=1.6km az=330.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=4.6km s-min=1.4km az=343.0.
GII Event type ke.
ISC III 06 03 28 16.0–.45 34.73N–.04 25.08E–.04 40–4 4.2b,3.2s 593 0-118
ISCJB III 06 03 28 14.6–.28 34.65N–.02 25.02E–.02 48–2 4.2b,3.2s **¶16196702**
BJI III 06 03 28 15.7 34.80N 25.00E 45 4.8b,4.8s
MOS III 06 03 28 16.7–1.2 34.82N 24.94E 32 4.3b,4.8s
CSEM III 06 03 28 16.4–.14 34.69N 24.96E 45–1 4.1b,4.8s
IDC III 06 03 28 17.3–1.1 34.91N 24.97E 46–7 4.0,3.9
ATH III 06 03 28 17.7 34.81N 24.99E 42–1 4.0L,3.9
NEIC III 06 03 28 18.6 34.89N 24.98E 25 4.5L,4.2b
HLW III 06 03 28 18.5 34.78N 25.22E 33–21 3.4,3.4L
THE III 06 03 28 19.1 34.87N 24.96E 44–1 4.2L,3.4L
GII III 06 03 28 20.6–.37 34.46N 25.53E 50 4.6b,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=35.8.
MOS Error ellipse: s-maj=6.1km s-min=3.6km az=98.1.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=35.0.
IDC Error ellipse: s-maj=15.7km s-min=12.9km az=171.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=348.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.
NEIC Event type se. After ATH.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=181.0.
GII Event type ke.
ISC III 06 09 09 57.9–1.5 34.65N–.05 24.57E–.02 16–10 3.5b 125 0-60
IDC III 06 09 09 54.6–1.2 34.48N 24.64E 0 3.9L,3.6 **¶16484469**
ISCJB III 06 09 09 57.6–.86 34.58N–.05 24.54E–.03 29–4 3.4b,3.6
ATH III 06 09 09 58.5 34.68N 24.57E 26–1 2.9L,3.6
THE III 06 09 09 58.8 34.69N 24.57E 0–2 3.3L,3.6
CSEM III 06 09 09 59.6–.45 34.74N 24.53E 15 3.3L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.6km s-min=11.6km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=179.9.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=356.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=174.0.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=1.0.
ISC III 08 00 23 36.0–.98 34.33N–.03 26.60E–.03 24–7 3.9b,3.4s 430 1-83
IDC III 08 00 23 33.3–.74 34.61N 26.54E 0 4.0,4.0 **¶16303770**
ISK III 08 00 23 35.7 34.44N 26.38E 53 3.6L,4.0
MOS III 08 00 23 36.3–2.0 34.35N 26.63E 33 4.2b,4.0
CSEM III 08 00 23 36.2–.13 34.35N 26.59E 20 4.0b,4.0
HLW III 08 00 23 37.6 34.57N 26.72E 33–16 3.7,3.5L
ATH III 08 00 23 37.1 34.44N 26.48E 22–1 3.7L,3.5L
NEIC III 08 00 23 37.0 34.44N 26.48E 22 4.0L,4.0b
THE III 08 00 23 38.5 34.56N 26.59E 0–1 4.0L,4.0b
GII III 08 00 23 40.4–.00 34.21N 27.19E 1–0 3.4,4.0b
NIC III 08 00 23 41.7–.20 35.12N 26.95E 16 4.5b,4.0L
DDA III 08 00 23 42.4 35.10N 27.03E 5 4.5b,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=17.0km s-min=11.3km az=170.0.
MOS Error ellipse: s-maj=8.0km s-min=4.9km az=92.6.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=31.0.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=7.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
NEIC Event type se. After ATH.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=1.1km az=161.0.
GII Event type ke.
ISC III 09 03 05 37.4–1.2 34.24N–.04 25.11E–.03 14–9 4.2b 113 1-46
IDC III 09 03 05 35.3–1.2 34.31N 25.15E 0 4.4b,4.2 **¶17208860**
CSEM III 09 03 05 36.4–.25 34.20N 25.09E 2 3.3L,4.2
THE III 09 03 05 38.7 34.18N 25.11E 31–30 3.7L,4.2
ATH III 09 03 05 39.6 34.39N 25.06E 32–1 3.3L,4.2
HLW III 09 03 05 39.3 34.40N 25.30E 31–16 3.5L,3.4
ISK III 09 03 05 44.2 34.89N 25.42E 2 3.4,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=20.0km s-min=18.8km az=13.0.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.8km az=52.0.
THE Event type ke. Error ellipse: s-maj=30.6km s-min=1.7km az=342.0.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=336.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
ATH III 14 15 04 38.6 34.84N 25.25E 25–9 1.1L
CSEM III 14 15 04 38.6 34.84N 25.25E 25 1.1L **¶600897272**
ATH Event type ke. Error ellipse: s-maj=10.7km s-min=1.5km az=359.0. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH III 17 18 57 37.1 34.74N 25.05E 28–1 2.0L
CSEM III 17 18 57 37.1 34.74N 25.05E 28 2.0L **¶602003167**
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=349.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 20 00 21 03.0–1.9 34.28N–.07 26.31E–.03 10–10 101 1-7
ATH III 20 00 21 03.4 34.28N 26.26E 18–3 2.5L **¶16872464**
ISCJB III 20 00 21 03.5–1.3 34.29N–.07 26.35E–.04 14–12 2.5L
CSEM III 20 00 21 04.2–.40 34.33N 26.31E 10 2.7L
THE III 20 00 21 05.2 34.37N 26.27E 5–2 2.7L
DDA III 20 00 21 33.9 36.29N 27.33E 59 2.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.7km s-min=1.5km az=335.0. Analyst: Koutrakis ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=4.7km az=8.1.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.1km az=177.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=1.3km az=202.0.
ISC III 22 23 06 52.3–2.5 34.88N–.10 24.00E–.10 22–11 33 0-1
CSEM III 22 23 06 51.5–.50 34.84N 23.95E 19–2 2.9L **¶16872510**
ATH III 22 23 06 51.9 34.87N 24.02E 25–1 2.9L
THE III 22 23 06 52.8 34.89N 24.00E 17–1 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=5.6km az=56.0.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.9km az=236.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=237.0.
ISC III 23 15 30 50.9–1.1 34.66N–.03 25.06E–.02 6–6 4.0b,3.4s 339 0-118
BJI III 23 15 30 48.8 34.70N 25.10E 5 4.4b,4.2 **¶16357300**
ISCJB III 23 15 30 49.0–.68 34.53N–.02 25.14E–.02 5–4 4.0b,3.5s
IDC III 23 15 30 50.4–.66 34.72N 25.13E 0 4.2,4.1L
CSEM III 23 15 30 50.5–.18 34.57N 25.10E 2 4.1L,4.1L
NEIC III 23 15 30 51.2–1.1 34.66N 25.06E 2–6 4.5L,4.1b
ATH III 23 15 30 52.2 34.77N 25.02E 8–1 3.9L,4.1b
THE III 23 15 30 52.8 34.82N 25.04E 15–0 4.1L,4.1b
NSSC III 23 15 30 54.8–1.4 34.89N 25.62E 0–129 3.1L,2.7
HLW III 23 15 30 55.1 34.38N 25.39E 10–11 3.4L,3.2
DDA III 23 15 31 25.5 35.80N 27.56E 36 3.4L,3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=2.8km az=19.3.
IDC Error ellipse: s-maj=13.7km s-min=8.6km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.3km az=23.0.
NEIC Event type fe. Error ellipse: s-maj=7.8km s-min=4.4km az=188.0. Felt at Moirai.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=359.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=3.0.
NSSC Error ellipse: s-maj=13.0km s-min=231.7km az=-1.0.
ATH III 25 15 02 48.0 35.16N 24.14E 23–6 1.6L
¶600897638
ATH Event type ke. Error ellipse: s-maj=6.3km s-min=1.2km az=45.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 27 02 10 36.2–1.1 34.79N–.05 25.06E–.02 14–7 3.5b 76 0-78
ISCJB III 27 02 10 32.8–1.3 34.59N–.06 25.15E–.04 6–7 3.5b **¶16481114**
IDC III 27 02 10 33.7–1.0 34.72N 25.17E 0 3.6,3.6b
ATH III 27 02 10 36.1 34.78N 25.03E 18–1 3.4L,3.6b
CSEM III 27 02 10 36.7–.46 34.79N 25.04E 2 3.2L,3.6b
THE III 27 02 10 37.1 34.86N 25.02E 14–1 3.2L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.8km az=8.9.
IDC Error ellipse: s-maj=19.7km s-min=9.4km az=57.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=354.0. Analyst: Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=4.7km az=176.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.4km az=350.0.
ISC III 30 01 55 36.4–1.7 34.24N–.06 25.27E–.03 5–10 3.7b 52 1-60
ATH III 30 01 55 33.7 34.10N 25.31E 13–3 2.9L **¶16475754**
CSEM III 30 01 55 34.1–.59 34.13N 25.31E 2 2.9L
IDC III 30 01 55 35.5–1.1 34.19N 25.31E 0 3.6,3.6b
THE III 30 01 55 37.0 34.29N 25.28E 0–2 2.9L,3.6b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.8km az=4.0. Analyst: Koutrakis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.2km az=165.0.
IDC Error ellipse: s-maj=18.2km s-min=13.6km az=60.0.
THE Event type ke. Error ellipse: s-maj=4.2km s-min=1.4km az=166.0.
ISC III 30 07 55 28.6–2.1 34.30N–.08 25.36E–.04 3–12 32 1-44
IDC III 30 07 55 25.9–.43 37.12N 22.45E 0 3.6,3.6b **¶600913660**
ATH III 30 07 55 29.7 34.33N 25.31E 14–5 2.6L,3.6b
CSEM III 30 07 55 29.7 34.33N 25.31E 14 2.6L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=5.6km az=160.0.
ATH Event type ke. Error ellipse: s-maj=5.7km s-min=1.5km az=3.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 31 02 23 36.0–1.1 35.60N–.03 26.00E–.04 9–10 70 1-5
ATH III 31 02 23 34.7 35.62N 26.10E 27–2 2.6L **¶16872626**
ISCJB III 31 02 23 35.0–.70 35.64N–.04 26.23E–.06 25–7 2.6L
CSEM III 31 02 23 36.2–.29 35.60N 25.97E 2 2.6L
THE III 31 02 23 38.3 35.65N 25.77E 3–0 2.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.2km az=108.0. Analyst: g.panopoulou ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=6.3km az=156.5.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=68.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.5km az=111.0.
ISC III 31 09 06 50.8–1.9 34.69N–.08 23.66E–.05 12–10 3.7b 58 0-61
IDC III 31 09 06 46.1–1.4 34.40N 23.54E 0 3.9,3.8L **¶16403106**
CSEM III 31 09 06 50.9–.36 34.69N 23.67E 2 3.2L,3.8L
ATH III 31 09 06 50.0 34.67N 23.64E 16–2 3.2L,3.8L
THE III 31 09 06 51.9 34.73N 23.72E 0–4 3.2L,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=30.4km s-min=20.1km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=3.8km az=21.0.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.3km az=32.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=6.0km s-min=1.2km az=212.0.
ISC III 31 14 26 38.1–.96 35.66N–.02 26.52E–.02 13–7 3.9b 211 1-77
DDA III 31 14 26 37.3 35.70N 26.61E 3 3.9b **¶16403110**
THE III 31 14 26 38.6 35.59N 26.53E 10–1 3.7L
ATH III 31 14 26 38.2 35.64N 26.54E 22–0 3.6L
ISCJB III 31 14 26 38.1–.54 35.62N–.03 26.54E–.02 10–4 3.6b,2.5s
CSEM III 31 14 26 38.3–.14 35.65N 26.52E 5 3.7L,2.5s
ISK III 31 14 26 40.2 35.81N 26.51E 18 3.7,2.5s

IDC III 31 14 26 41.4–1.7 36.13N 26.05E 50–23 3.7,3.5b
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.4km az=165.0.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=157.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.2km az=160.4.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=162.0.
IDC Error ellipse: s-maj=53.4km s-min=14.8km az=147.0.
ISC III 31 20 50 49.3–1.6 34.19N–.05 25.34E–.04 2–10 4.0b 86 1-79
CSEM III 31 20 50 48.3–.67 34.11N 25.31E 2 3.7L **¶16476023**
ATH III 31 20 50 48.4 34.11N 25.28E 13–2 3.6L
IDC III 31 20 50 49.2–.74 34.20N 25.27E 0 4.1,4.0
THE III 31 20 50 50.4 34.22N 25.29E 0–1 3.7L,4.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=7.4km az=160.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=1.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=14.7km s-min=12.3km az=177.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=169.0.
ATH IV 01 03 10 16.4 34.94N 25.33E 22–6 2.0L
CSEM IV 01 03 10 16.5 34.94N 25.33E 22 2.0L **¶603438473**
ATH Event type ke. Error ellipse: s-maj=7.6km s-min=1.2km az=357.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 01 05 41 28.2–2.1 34.21N–.10 25.28E–.04 12–11 3.8b 34 1-60
CSEM IV 01 05 41 26.2 34.10N 25.31E 14 3.1L **¶17199389**
ATH IV 01 05 41 26.2 34.10N 25.31E 14–2 3.1L
IDC IV 01 05 41 27.6–1.0 34.18N 25.27E 0 3.7,3.7b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=1.5km az=4.0.
IDC Error ellipse: s-maj=17.2km s-min=12.9km az=64.0.
ISC IV 01 13 29 11.5–.23 35.73N–.02 26.55E–.02 76–1 6.1b 3210 1-167
NSSC IV 01 13 29 06.7–.60 35.66N 26.65E 33–131 5.6L **¶600575114**
HLW IV 01 13 29 08.5 35.74N 26.73E 33–13 5.8L
NIC IV 01 13 29 08.2–.20 35.54N 26.63E 60 5.8L
ISK IV 01 13 29 08.4 35.50N 26.58E 57 6.2L
PDG IV 01 13 29 09.3–.28 34.99N 25.71E 12–5 6.1,6.0L
NEIC IV 01 13 29 10.7 35.66N 26.56E 60 6.2,6.2b
CSEM IV 01 13 29 10.6–.08 35.57N 26.60E 80 6.1b,6.1W
ATH IV 01 13 29 10.6 35.64N 26.56E 63–2 6.2L,6.1W
BJI IV 01 13 29 10.2 35.70N 26.50E 80 5.9b,5.8b
GCMT IV 01 13 29 10.7–.10 35.49N 26.67E 76–0 6.1W,5.8b
ISCJB IV 01 13 29 10.0–.13 35.66N–.01 26.578E–.01 75–1 6.0b,5.8b
IDC IV 01 13 29 11.4–.52 35.79N 26.50E 74–4 5.9,5.7
MOS IV 01 13 29 11.4–1.0 35.74N 26.51E 89 6.4b,5.3s
SFS IV 01 13 29 11.0 35.54N 26.03E 60 6.0L,5.3s
PDA IV 01 13 29 12.1 35.72N 26.55E 80 6.1W,5.3s
THE IV 01 13 29 12.6 35.65N 26.57E 44–2 6.2L,5.3s
NEIC IV 01 13 29 12.0–.00 35.73N 26.65E 77 6.2L,5.3s
GII IV 01 13 29 13.6–.00 35.16N 27.27E 5–0 6.1,5.8b
NEIC IV 01 13 29 20.3–.00 35.91N 26.46E 54 6.1,5.8b
DDA IV 01 13 29 43.8 35.48N 26.40E 9 6.2L,5.8b
ISC Event type fe.
NSSC Error ellipse: s-maj=7.7km s-min=95.4km az=-1.0.
NIC Event type fe. Felt I=II at Pafos, Lemesos, Lefkosia.
PDG Event type ke. Error ellipse: s-maj=11.2km s-min=8.3km az=90.0.
NEIC Event type fe. Felt [VI] at Karpathos; [V] at Skhisma and Thira; [IV] at Gazion, Ierapetra, Irakleion, Lardos, Neapolis and Siteia; [III] at Ayios Nikolaos, Chania, Kos, Koutouloufarion, Malia, Neon Karlovasion, Paros, Rodos and Trianta. Felt [IV] at Dalaman and Fethiye; [III] at Alanya, Antalya and Marmaris, Turkey. Felt [IV] at Ismailia and [III] at Alexandria, Al Jizeh, Az Zaqaziq, Cairo and Tanta, Egypt. Felt [III] at Ra'anana, Israel and at Sliema, Malta. Felt widely in Cyprus, northern Egypt, southern Greece, Israel, Malta and southwestern Turkey. Also felt in Lebanon. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After ATH. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}0.16 $M_{\theta\theta}$1.29 $M_{\phi\phi}$-1.45 $M_{r\theta}$0.65 $M_{\theta\phi}$-0.31 $M_{\phi r}$0.17 Best double couple: NP1:ϕ_s144.00000°,δ67.00000°,λ11.00000°. NP2:ϕ_s49.00000° ,δ80.00000°,λ156.00000°. Principal axes: T 1.6000,Plg24.0000°,Azm4.0000° ; N -0.0800,Plg64.0000°,Azm207.0000°; P -1.5200,Plg9.0000°,Azm98.0000° $M_0$1.60000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s50.00000°,δ73.00000°,λ148.00000°. NP2:ϕ_s150.00000°,δ60.00000°,λ20.00000°. Principal axes: T Plg34.0000°,Azm6.0000°; N Plg0.0000°,Azm0.0000°; P Plg8.0000° ,Azm102.0000°
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=5.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.4km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s136,c285; s137,c437;Duration: 2s9 Moment tensor: Scale 10^{18}Nm; M_{rr}0.17±.01 $M_{\theta\theta}$1.78±.01; $M_{\phi\phi}$-1.94±.01; $M_{r\theta}$0.58±.01; $M_{\theta\phi}$-0.41±.01; $M_{\phi r}$0.31±.01; Best double couple: NP1:ϕ_s50.00000° ,δ85.00000°,λ161.00000°. NP2:ϕ_s142.00000°,δ71.00000°,λ5.00000°. Principal axes: T 1.9880,Plg17.0000°,Azm5.0000°; N 0.0680,Plg70.0000°,Azm217.0000° ; P -2.0490,Plg10.0000°,Azm98.0000° $M_0$2.01800×10^{18}
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.1km az=4.9.
IDC Error ellipse: s-maj=6.2km s-min=4.8km az=146.0.
MOS Error ellipse: s-maj=4.2km s-min=2.4km az=93.0.
SFS Event type ke.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.5km az=155.0.
NEIC Event type se. Moment Tensor Solution. s23 Moment tensor: Scale 10^{18}Nm; M_{rr}0.02 $M_{\theta\theta}$1.13 $M_{\phi\phi}$-1.15 $M_{r\theta}$0.36 $M_{\theta\phi}$-0.35 $M_{\phi r}$0.55 Best double couple: NP1:ϕ_s234.00000° ,δ84.00000°,λ-153.00000°. NP2:ϕ_s141.00000°,δ64.00000°,λ-6.00000°. Principal axes: T 1.2500,Plg14.0000°,Azm4.0000°; N 0.1900,Plg62.0000°,Azm245.0000° ; P -1.4500,Plg22.0000°,Azm100.0000° $M_0$1.40000×10^{18}
GII Event type ke.
NEIC Event type se. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}0.04 $M_{\theta\theta}$1.70 $M_{\phi\phi}$-1.74 $M_{r\theta}$0.54 $M_{\theta\phi}$-0.33 $M_{\phi r}$0.25 Best double couple: NP1:ϕ_s141.00000° ,δ72.00000°,λ4.00000°. NP2:ϕ_s50.00000°,δ86.00000°,λ162.00000°. Principal axes: T 1.8700,Plg16.0000°,Azm4.0000°; N -0.0600,Plg72.0000°,Azm217.0000° ; P -1.8200,Plg10.0000°,Azm97.0000° $M_0$1.90000×10^{18}
ISC IV 01 13 45 23.6–.42 35.53N–.02 26.63E–.02 67–4 4.2b 604 0-80
HLW IV 01 13 45 21.7 35.70N 26.67E 33–17 4.2L **¶16403914**
ISCJB IV 01 13 45 22.2–.16 35.43N–.02 26.66E–.01 77–2 4.0b
CSEM IV 01 13 45 23.6–.09 35.41N 26.64E 80 4.2L
ISK IV 01 13 45 23.6 35.69N 26.63E 17 4.1L
NEIC IV 01 13 45 24.3 35.65N 26.55E 58 4.3b
NIC IV 01 13 45 24.7–.30 35.84N 26.90E 66 4.4b,4.0L
DDA IV 01 13 45 24.8 35.90N 26.61E 19 4.0,4.0L
ATH IV 01 13 45 24.4 35.65N 26.55E 58–3 4.2L,4.0L
IDC IV 01 13 45 25.5–1.1 35.69N 26.43E 76–12 4.3,4.1
THE IV 01 13 45 26.5 35.64N 26.54E 34–5 4.4L,4.1
GII IV 01 13 45 29.4–.00 35.00N 27.42E 1–1 4.2b,4.0
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=28.0.
NEIC Event type fe. Felt at Chania, Lardos, Mouzouras and Paros. Also felt at Fethiye and Marmaris, Turkey. After ATH.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=0.6km az=147.0.
IDC Error ellipse: s-maj=19.1km s-min=11.2km az=157.0.
THE Event type ke. Error ellipse: s-maj=5.4km s-min=0.5km az=157.0.
GII Event type ke.
ISC IV 01 17 47 08.8–1.3 35.62N–.03 26.59E–.03 61–10 141 0-6
ATH IV 01 17 47 08.4 35.65N 26.57E 57–4 3.0L **¶16647940**
ISK IV 01 17 47 08.1 35.72N 26.58E 84 3.3
ISCJB IV 01 17 47 08.4–.53 35.65N–.03 26.58E–.03 64–8 3.3
THE IV 01 17 47 09.9 35.66N 26.56E 43–5 3.1L
CSEM IV 01 17 47 09.4–.15 35.65N 26.58E 48–4 3.0L
HLW IV 01 17 47 10.0 35.17N 27.04E 30–9 2.4L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.6km s-min=0.8km az=137.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=154.2.
THE Event type ke. Error ellipse: s-maj=5.6km s-min=0.7km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.7km az=157.0.
ISC IV 02 01 20 01.9–2.2 34.18N–.08 25.31E–.04 1–13 3.6b 33 1-60
CSEM IV 02 01 20 01.3 34.14N 25.30E 10 2.7L **¶17199477**
ATH IV 02 01 20 01.3 34.14N 25.30E 10–3 2.7L
IDC IV 02 01 20 02.1–1.5 34.63N 24.90E 0 3.5,3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.5km az=18.0.
IDC Error ellipse: s-maj=350.0km s-min=26.9km az=141.0.
ISC IV 02 03 27 42.7–1.6 34.16N–.05 25.29E–.03 2–9 4.1b 81 1-78
ISCJB IV 02 03 27 42.7–.96 34.09N–.04 25.32E–.04 15–6 3.7b **¶16647982**
IDC IV 02 03 27 42.9–.98 34.26N 25.21E 0 3.8,3.8b
THE IV 02 03 27 43.8 34.24N 25.32E 0–1 3.3L,3.8b
CSEM IV 02 03 27 43.8–.45 34.22N 25.23E 2 3.3L,3.8b
ATH IV 02 03 27 43.1 34.18N 25.26E 19–1 3.2L,3.8b
ISK IV 02 03 27 52.7 34.68N 25.99E 5 3.8,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.6km az=26.4.
IDC Error ellipse: s-maj=18.7km s-min=16.5km az=8.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.8km az=12.0.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.4km az=2.0.
ISC IV 02 07 55 15.5–1.4 35.61N–.04 26.61E–.03 60–12 73 0-3
ISCJB IV 02 07 55 15.8–.81 35.64N–.04 26.57E–.04 52–13 **¶16881359**
ATH IV 02 07 55 15.3 35.69N 26.51E 37–3 2.5L
THE IV 02 07 55 16.8 35.64N 26.55E 44–6 2.8L
CSEM IV 02 07 55 16.4–.12 35.64N 26.57E 40 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.6km az=153.9.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.3km az=164.0.
THE Event type ke. Error ellipse: s-maj=6.2km s-min=0.8km az=142.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=159.0.
ISC IV 02 19 32 56.5–.96 35.60N–.06 26.94E–.04 26–9 36 0-3
ISK IV 02 19 32 51.4 35.54N 26.86E 5 3.4 **¶16647994**
ATH IV 02 19 32 54.0 35.25N 27.17E 29–1 2.7L
CSEM IV 02 19 32 55.4–.22 35.70N 26.89E 10 2.7L
ISCJB IV 02 19 32 56.7–.55 35.56N–.09 26.97E–.06 32–10 2.7L
ISC Event type ke.
ATH Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 03 02 26 42.1–.93 34.90N–.05 23.47E–.04 51–8 3.6b 250 1-77
ISK IV 03 02 26 39.8 34.95N 23.61E 18 3.9 **¶16407578**
ATH IV 03 02 26 40.2 34.85N 23.37E 39–1 3.1L
ISCJB IV 03 02 26 41.1–.54 34.90N–.04 23.47E–.04 68–4 3.5b
THE IV 03 02 26 42.6 34.90N 23.44E 28–2 3.1L
CSEM IV 03 02 26 42.5–.40 34.94N 23.49E 30 3.1L
IDC IV 03 02 26 43.3–2.0 34.97N 23.45E 66–19 3.6,3.4
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.2km az=32.3.
THE Event type ke. Error ellipse: s-maj=3.5km s-min=0.6km az=201.0.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=3.4km az=26.0.
IDC Error ellipse: s-maj=25.2km s-min=18.1km az=156.0.
ISC IV 03 22 13 47.8–1.6 34.22N–.05 25.25E–.03 4–10 4.0b 128 1-78
ATH IV 03 22 13 47.7 34.20N 25.22E 6–3 3.3L **¶16648046**
IDC IV 03 22 13 47.1–1.0 34.27N 25.24E 0 3.9,3.8b
ISK IV 03 22 13 47.5 34.16N 25.26E 5 3.4L,3.8b
ISCJB IV 03 22 13 47.4–.99 34.10N–.04 25.22E–.04 17–6 4.0b,3.8b
CSEM IV 03 22 13 48.6–.37 34.23N 25.17E 2 3.2L,3.8b
THE IV 03 22 13 49.2 34.29N 25.25E 0–1 3.2L,3.8b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.4km az=346.0.
IDC Error ellipse: s-maj=18.4km s-min=16.9km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.4km az=21.6.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=9.0.
THE Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=169.0.
ISC IV 04 00 29 56.0–.74 35.06N–.03 24.28E–.02 25–8 89 0-5
ISK IV 04 00 29 53.8 35.44N 24.35E 5 3.5 **¶16648069**
ISCJB IV 04 00 29 55.1–.80 34.99N–.06 24.23E–.04 45–7 3.5
ATH IV 04 00 29 55.2 35.04N 24.26E 32–1 2.9L
CSEM IV 04 00 29 55.8–.27 35.00N 24.26E 30 2.9L
THE IV 04 00 29 57.0 35.06N 24.27E 24–1 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=4.5km az=18.6.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=219.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.3km az=20.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=202.0.
ISC IV 05 06 11 52.6–1.2 35.61N–.03 26.60E–.02 65–8 160 0-9
GII IV 05 06 11 21.8–.00 35.62N 25.56E 15–1 3.4 **¶16881403**
ISCJB IV 05 06 11 50.0–.35 35.51N–.03 26.66E–.02 87–5 3.4
ATH IV 05 06 11 52.0 35.66N 26.58E 63–3 2.8L
CSEM IV 05 06 11 52.9–.14 35.60N 26.60E 60 2.9L
THE IV 05 06 11 53.9 35.64N 26.57E 51–3 2.9L
HLW IV 05 06 12 01.4 34.49N 27.03E 22–9 3.4L
ISC Event type ke.
GII Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=164.7.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=0.9km az=146.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.4km az=161.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=0.5km az=156.0.
ISC IV 05 11 39 00.5–1.3 34.04N–.05 26.21E–.04 32–14 92 1-9
CSEM IV 05 11 39 00.3–.31 34.10N 26.22E 5 3.7 **¶600915932**
ATH IV 05 11 39 02.9 34.24N 26.16E 25–1 3.0L
HLW IV 05 11 39 05.0 34.19N 26.93E 11–10 3.2L
GII IV 05 11 39 08.2–.00 33.77N 26.66E 27–0 3.7
DDA IV 05 11 39 54.6 34.24N 26.40E 26 3.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=5.0km az=34.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.2km az=348.0.
GII Event type ke.
ATH IV 06 03 09 50.5 34.97N 25.32E 19–7 0.9L
CSEM IV 06 03 09 50.5 34.97N 25.32E 19 0.9L **¶600915959**
ATH Event type ke. Error ellipse: s-maj=8.0km s-min=1.3km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 06 06 08 27.9–.82 35.23N–.04 26.29E–.02 14–6 103 0-4
ISK IV 06 06 08 24.5 35.03N 26.27E 11 3.4 **¶16648184**
CSEM IV 06 06 08 27.7–.27 35.21N 26.28E 10 3.1L
THE IV 06 06 08 27.8 35.26N 26.24E 0–1 3.1L
ATH IV 06 06 08 27.3 35.25N 26.30E 20–1 3.1L
ISCJB IV 06 06 08 27.4–.56 35.25N–.05 26.31E–.03 6–5 3.1L
DDA IV 06 06 08 56.5 36.52N 28.55E 4 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=3.1km az=163.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=23.0.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=169.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.1km az=163.5.
ISC IV 06 07 03 08.1–1.6 34.24N–.06 25.30E–.03 7–10 3.9b 57 1-60
CSEM IV 06 07 03 05.7–.34 34.10N 25.34E 2 3.2L **¶16705780**
IDC IV 06 07 03 07.5–1.3 34.18N 25.23E 0 4.0L,3.8b
ATH IV 06 07 03 07.7 34.20N 25.27E 13–2 3.2L,3.8b
THE IV 06 07 03 07.5 34.21N 25.37E 0–2 3.2L,3.8b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.2km az=162.0.
IDC Error ellipse: s-maj=23.4km s-min=13.1km az=64.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.4km az=12.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.2km az=166.0.
ISC IV 06 07 08 33.9–1.0 35.26N–.03 26.31E–.03 18–3 43 0-3
ATH IV 06 07 08 33.0 35.10N 26.27E 28–1 2.7L **¶16648187**
THE IV 06 07 08 33.9 35.29N 26.24E 0–1 2.8L
ISCJB IV 06 07 08 34.9–.71 35.26N–.09 26.24E–.04 8–11 2.8L
CSEM IV 06 07 08 34.6–.19 35.28N 26.24E 0–5 2.7L
ISK IV 06 07 08 35.5 35.36N 26.28E 6 3.0

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.5km s-min=1.2km az=170.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=5.0km az=2.4.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=3.3km az=171.0.
ATH IV 06 11 34 49.9 34.08N 25.32E 6–2 2.8L
CSEM IV 06 11 34 49.9 34.08N 25.32E 6 2.8L ¶602212565
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.3km az=349.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 10 06 51 54.4–1.1 34.84N–.03 25.81E–.02 8–7 3.8b,3.0s 296 0-78
ISK IV 10 06 51 49.6 34.37N 25.58E 40 4.0L,3.0s ¶16417119
ISCJB IV 10 06 51 53.1–.54 34.77N–.02 25.82E–.02 8–3 3.8b,2.9s
IDC IV 10 06 51 53.0–.93 34.91N 25.84E 0 4.0,3.9
CSEM IV 10 06 51 54.4–.16 34.83N 25.82E 2 4.1L,3.9
ATH IV 10 06 51 54.7 34.89N 25.81E 16–0 3.8L,3.9
THE IV 10 06 51 55.8 34.92N 25.76E 1–1 4.1L,3.9
HLW IV 10 06 51 59.6 34.63N 26.08E 33–15 3.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=13.5.
IDC Error ellipse: s-maj=20.7km s-min=8.2km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=8.0.
ATH Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=350.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.8km az=176.0.
ISC IV 10 14 23 03.2–1.7 34.51N–.06 26.64E–.04 10–10 3.5b 64 1-59
IDC IV 10 14 23 01.8–1.2 34.60N 26.56E 0 3.7,3.6 ¶16706292
ISCJB IV 10 14 23 03.5–1.5 34.46N–.07 26.73E–.05 23–10 3.5b,3.6
ATH IV 10 14 23 03.1 34.46N 26.61E 12–2 3.2L,3.6
CSEM IV 10 14 23 04.3–.55 34.53N 26.60E 2 3.3L,3.6
THE IV 10 14 23 06.1 34.63N 26.56E 0–2 3.3L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=17.4km az=1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.6km s-min=6.6km az=5.6.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.8km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=6.3km az=151.0.
THE Event type ke. Error ellipse: s-maj=4.8km s-min=1.8km az=152.0.
ISC IV 11 05 39 24.0–1.7 34.17N–.06 25.31E–.03 4–10 3.9b 100 1-46
ISCJB IV 11 05 39 22.3–1.1 34.08N–.04 25.35E–.03 6–8 3.7b ¶602212680
ATH IV 11 05 39 23.8 34.16N 25.27E 13–2 3.3L
IDC IV 11 05 39 23.2–1.2 34.24N 25.26E 0 3.9,3.8b
CSEM IV 11 05 39 23.9–.47 34.17N 25.30E 2 3.4L,3.8b
THE IV 11 05 39 24.6 34.21N 25.34E 0–3 3.4L,3.8b
ISK IV 11 05 39 45.2 35.88N 26.06E 29 3.2L,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=17.9.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.2km az=358.0.
IDC Error ellipse: s-maj=19.5km s-min=17.9km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=4.7km az=178.0.
THE Event type ke. Error ellipse: s-maj=7.6km s-min=1.8km az=167.0.
ATH IV 11 08 15 46.3 34.31N 25.30E 20–4 2.3L
CSEM IV 11 08 15 46.3 34.31N 25.30E 20 2.3L ¶602212723
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.4km az=350.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE IV 11 09 17 43.3 34.82N 23.80E 22–2 2.8L
ATH IV 11 09 17 41.4 34.78N 23.84E 39–1 3.1L ¶16881511
CSEM IV 11 09 17 41.8–.59 34.78N 23.76E 20 3.1L
THE Event type ke. Error ellipse: s-maj=3.1km s-min=1.4km az=203.0.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.8km az=232.0.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=6.6km az=34.0.
ISC IV 12 20 01 36.3–1.6 34.15N–.06 25.29E–.03 4–10 3.7b 85 1-78
ISCJB IV 12 20 01 35.7–1.5 34.08N–.04 25.35E–.04 11–11 3.5b ¶16706650
ATH IV 12 20 01 36.3 34.15N 25.28E 17–1 3.2L
IDC IV 12 20 01 36.0–1.1 34.29N 25.17E 0 3.6,3.6b
CSEM IV 12 20 01 37.2–.58 34.18N 25.32E 2 3.4L,3.6b
THE IV 12 20 01 37.7 34.24N 25.32E 0–1 3.4L,3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.5km az=37.9.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.2km az=4.0.
IDC Error ellipse: s-maj=19.6km s-min=17.9km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=6.3km az=153.0.
THE Event type ke. Error ellipse: s-maj=4.1km s-min=1.1km az=168.0.
ISC IV 13 20 45 45.2–1.6 34.18N–.05 25.27E–.03 3–9 3.9b 109 1-78
ISCJB IV 13 20 45 43.6–1.3 34.07N–.03 25.26E–.04 3–9 4.8s,3.9b ¶16587497
ATH IV 13 20 45 44.7 34.14N 25.29E 11–2 3.6L,3.9b
IDC IV 13 20 45 44.9–.74 34.21N 25.22E 0 4.9s,4.9
THE IV 13 20 45 45.9 34.23N 25.31E 0–1 3.7L,4.9
CSEM IV 13 20 45 46.8–.55 34.24N 25.22E 2 3.7L,4.9
ISK IV 13 20 45 59.1 34.98N 25.63E 74 3.4L,4.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=34.3.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.4km az=357.0.
IDC Error ellipse: s-maj=14.3km s-min=12.6km az=31.0.
THE Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=5.8km az=8.0.
ISC IV 16 05 39 45.8–.90 35.46N–.02 26.57E–.02 16–7 3.5b 186 0-43
IDC IV 16 05 39 43.1–1.0 35.35N 26.72E 0 3.6,3.6b ¶16648817
ATH IV 16 05 39 44.8 35.53N 26.56E 26–2 3.4L,3.6b
ISK IV 16 05 39 44.7 35.65N 26.58E 3 3.3L,3.6b
HLW IV 16 05 39 45.2 35.62N 26.73E 33–34 3.6,2.9L
CSEM IV 16 05 39 45.8–.13 35.48N 26.56E 15 3.3L,2.9L
THE IV 16 05 39 45.7 35.51N 26.57E 3–2 3.5L,2.9L
ISCJB IV 16 05 39 45.8–.43 35.43N–.02 26.60E–.02 27–4 3.5b,2.9L
DDA IV 16 05 39 59.3 35.42N 26.32E 11 3.5,2.9L
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=11.7km az=176.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=157.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=154.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=148.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=156.0.
ISC IV 16 23 37 41.7–1.3 34.64N–.03 24.89E–.02 6–8 3.5b 135 0-78
ISCJB IV 16 23 37 40.9–.81 34.58N–.02 24.88E–.03 6–5 3.2b ¶16707149
IDC IV 16 23 37 41.6–1.1 34.69N 24.85E 0 3.6,3.6L
CSEM IV 16 23 37 42.7–.26 34.64N 24.85E 2 3.6L,3.6L
ATH IV 16 23 37 44.0 34.78N 24.85E 15–1 3.7L,3.6L
THE IV 16 23 37 45.0 34.81N 24.84E 0–2 3.6L,3.6L
HLW IV 16 23 37 46.8 34.70N 25.20E 28–11 3.0,2.8L
GII IV 16 23 37 51.9–.00 34.17N 25.63E 1–0 3.5,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=137.2.
IDC Error ellipse: s-maj=20.9km s-min=10.4km az=93.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=49.0.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.3km az=1.0.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.2km az=178.0.
GII Event type ke.
ISC IV 17 04 24 30.8–1.3 34.71N–.04 24.86E–.02 8–9 3.3b 81 0-78
ISCJB IV 17 04 24 29.6–.68 34.64N–.03 24.91E–.03 7–5 3.1b ¶16707163
CSEM IV 17 04 24 30.6–.18 34.67N 24.89E 5 3.7L
IDC IV 17 04 24 30.1–1.3 34.70N 24.88E 0 3.5,3.5L
HLW IV 17 04 24 31.0 34.91N 25.01E 31–21 3.4,2.7L
ATH IV 17 04 24 32.0 34.79N 24.86E 19–1 3.7L,2.7L
THE IV 17 04 24 32.0 34.79N 24.87E 0–1 3.5L,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=140.6.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=61.0.
IDC Error ellipse: s-maj=25.5km s-min=10.8km az=97.0.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.4km az=358.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=175.0.
ISC IV 17 15 58 30.5–.82 35.83N–.03 23.15E–.03 14–5 3.9b 208 0-120
IDC IV 17 15 58 29.5–.74 35.96N 23.15E 0 4.0,4.0b ¶16442687
ATH IV 17 15 58 30.9 35.86N 23.24E 19–1 3.7L,4.0b
ISCJB IV 17 15 58 30.6–.55 35.77N–.03 23.14E–.03 20–4 3.8b,4.0b
THE IV 17 15 58 31.3 35.84N 23.21E 0–1 3.7L,4.0b
CSEM IV 17 15 58 31.5–.23 35.83N 23.26E 8 3.7L,4.0b
HLW IV 17 15 58 33.7 36.02N 23.68E 33–17 3.4,3.0L
ISC Event type ke.
IDC Error ellipse: s-maj=16.1km s-min=13.3km az=13.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=229.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.0km az=140.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=220.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.2km az=46.0.
ISC IV 17 16 49 07.9–.80 35.17N–.02 24.96E–.01 9–5 3.6b 127 0-45
ATH IV 17 16 49 06.8 35.18N 24.95E 18–0 2.9L ¶16707228
ISCJB IV 17 16 49 07.6–.42 35.16N–.03 24.96E–.02 10–3 3.4b
THE IV 17 16 49 07.2 35.16N 24.94E 0–1 3.1L
CSEM IV 17 16 49 07.5–.19 35.16N 24.97E 5 2.9L
IDC IV 17 16 49 07.5–1.6 34.97N 25.23E 0 3.7L,3.5b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.1km az=174.6.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=1.0.
IDC Error ellipse: s-maj=43.0km s-min=26.3km az=134.0.
ISC IV 18 02 25 40.9–1.8 34.42N–.07 25.90E–.04 6–10 3.5b 38 1-78
IDC IV 18 02 25 39.2–1.3 34.30N 25.90E 0 3.6,3.6L ¶17201383
ISCJB IV 18 02 25 40.9–1.7 34.41N–.06 25.98E–.05 11–9 3.5b,3.0s
ATH IV 18 02 25 42.8 34.49N 25.85E 10–4 2.8L,3.0s
CSEM IV 18 02 25 42.8 34.49N 25.85E 10 2.8L,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=25.5km s-min=20.6km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.5km az=16.2.
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.4km az=354.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 20 18 47 02.5–1.6 35.24N–.05 23.19E–.06 24–13 71 1-4
ATH IV 20 18 46 59.8 35.15N 23.05E 37–4 3.0L ¶16881673
ISCJB IV 20 18 47 01.0–1.1 35.19N–.05 23.07E–.06 32–6 3.0L
CSEM IV 20 18 47 01.6–.75 35.21N 23.11E 26–5 2.9L
THE IV 20 18 47 03.3 35.27N 23.22E 19–1 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.9km s-min=1.4km az=46.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=4.9km az=41.3.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=5.4km az=43.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=104.0.
ISC IV 22 06 15 06.0–.90 34.37N–.04 26.81E–.03 24 77 1-8
ISCJB IV 22 06 15 05.3–.34 34.26N–.03 26.88E–.03 24 ¶600916392
GII IV 22 06 15 05.0–.00 34.28N 26.84E 5–0 3.5
ATH IV 22 06 15 06.5 34.23N 26.58E 25–3 2.8L
CSEM IV 22 06 15 06.0–.20 34.40N 26.88E 15 2.8L
HLW IV 22 06 15 12.9 34.00N 26.75E 31–27 3.8,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.8km az=29.4.
GII Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.7km s-min=2.0km az=355.0.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=3.9km az=29.0.
ISC IV 22 23 32 30.9–.64 35.37N–.03 25.57E–.02 24–4 3.6b,3.2s 434 0-77
ISK IV 22 23 32 29.0 35.36N 25.35E 15 3.6L,3.2s ¶16649157
ATH IV 22 23 32 30.5 35.41N 25.55E 29–1 3.8L,3.2s
HLW IV 22 23 32 30.7 35.55N 25.72E 27–12 4.1,3.4L
IDC IV 22 23 32 31.9–1.1 35.36N 25.48E 33–13 3.7,3.7
CSEM IV 22 23 32 31.7–.10 35.35N 25.54E 20 3.8L,3.7
THE IV 22 23 32 31.8 35.41N 25.55E 11–1 3.8L,3.7
VIE IV 22 23 32 35.4 35.25N 25.52E 70 3.8L,3.6b
GII IV 22 23 32 37.5–.00 34.91N 26.18E 1–0 4.2b,4.0
DDA IV 22 23 32 42.8 35.52N 25.49E 34 3.9,4.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.7km az=182.0.
IDC Error ellipse: s-maj=25.1km s-min=13.1km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=32.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=170.0.
VIE Event type ke.
GII Event type ke.
ISC IV 23 08 38 31.1–.76 34.84N–.05 24.19E–.03 23–6 3.7b 80 0-78
IDC IV 23 08 38 26.0–1.8 34.80N 23.91E 0 3.8b,3.7 ¶16505503
ISCJB IV 23 08 38 30.5–.83 34.74N–.05 24.18E–.04 25–3 3.7b,3.7
ATH IV 23 08 38 31.2 34.85N 24.16E 24–1 3.1L,3.7
THE IV 23 08 38 32.8 34.90N 24.23E 7–1 3.2L,3.7
CSEM IV 23 08 38 32.2–.29 34.87N 24.19E 12 3.1L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=36.5km s-min=13.0km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=5.1km az=20.3.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=18.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.6km az=16.0.
ISC IV 23 23 29 36.7–1.3 34.80N–.08 23.58E–.06 46–9 3.7b 116 0-61
IDC IV 23 23 29 33.9–3.1 34.31N 23.39E 51–24 3.6,3.5 ¶16707830
ATH IV 23 23 29 36.4 34.86N 23.46E 38–1 3.3L,3.5
ISCJB IV 23 23 29 37.2–.92 34.85N–.07 23.58E–.06 60–5 3.6b,3.5
CSEM IV 23 23 29 38.2–.31 34.88N 23.57E 30 3.1L,3.5
THE IV 23 23 29 40.0 34.94N 23.66E 27–1 3.1L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=17.6km az=30.0.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=38.0.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=4.9km az=32.8.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=2.6km az=27.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=47.0.
ISC IV 26 17 37 37.9–.84 35.43N–.02 25.55E–.02 13–6 86 0-3
ISCJB IV 26 17 37 37.6–.53 35.44N–.03 25.57E–.03 8–6 ¶16881822
ATH IV 26 17 37 37.9 35.43N 25.56E 12–3 2.6L
CSEM IV 26 17 37 37.6–.16 35.44N 25.56E 8 2.6L
THE IV 26 17 37 37.3 35.44N 25.55E 0–0 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=170.6.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=0.8km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.1km az=138.0.
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=84.0.
ISC IV 27 13 49 25.2–1.2 34.97N–.07 23.38E–.06 51–9 3.7b 77 1-77
IDC IV 27 13 49 15.4–2.9 34.61N 23.08E 0 4.1L,3.6 ¶16546321
CSEM IV 27 13 49 23.4–.60 34.85N 23.32E 30 3.2L,3.6
ATH IV 27 13 49 24.8 35.04N 23.41E 44–2 3.2L,3.6
ISCJB IV 27 13 49 24.6–.00 34.98N–.08 23.38E–.08 64–6 3.6b,3.6
NEIC IV 27 13 49 24.8–4.3 34.99N 23.33E 50–23 4.3b,3.6
THE IV 27 13 49 25.2 34.91N 23.33E 29–9 3.3L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=62.4km s-min=26.0km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=15.2km s-min=6.4km az=29.0.
ATH Event type ke. Error ellipse: s-maj=3.5km s-min=1.2km az=213.0.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=5.5km az=37.7.
NEIC Event type se. Error ellipse: s-maj=52.1km s-min=21.3km az=218.0.
THE Event type ke. Error ellipse: s-maj=10.9km s-min=1.3km az=221.0.
ISC V 03 18 30 33.8–1.0 35.12N–.04 26.72E–.02 28–8 3.3b 201 0-50
IDC V 03 18 30 29.7–1.1 35.08N 26.85E 0 3.5s,3.5 ¶16708728
DDA V 03 18 30 31.1 35.36N 26.64E 5 3.5,3.5
ISCJB V 03 18 30 33.3–.42 35.07N–.04 26.75E–.02 46–7 3.5s,3.3b
ISK V 03 18 30 33.3 35.11N 26.73E 57 3.0L,3.3b
ATH V 03 18 30 34.7 35.35N 26.57E 25–1 3.3L,3.3b
CSEM V 03 18 30 35.1–.25 35.16N 26.72E 30 3.4L,3.3b
THE V 03 18 30 35.2 35.22N 26.65E 15–0 3.4L,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=29.6km s-min=15.3km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=2.9km az=167.7.
ATH Event type ke. Error ellipse: s-maj=2.8km s-min=0.7km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=2.7km az=167.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.3km az=151.0.
ISC V 05 19 57 18.5–1.2 34.06N–.03 25.27E–.02 0–7 4.0b 423 1-93

ISCJB	V	05 19 57 18.7–.55	34.03N–.02	25.24E–.02	15–4	4.0b,3.5s		¶16501716
CSEM	V	05 19 57 19.4–.16	34.10N	25.22E	5	4.1b,3.5s		
IDC	V	05 19 57 19.0–.60	34.27N	25.29E	0	4.2,4.1		
ATH	V	05 19 57 19.1	34.12N	25.27E	10–1	3.9L,4.1		
THE	V	05 19 57 21.5	34.24N	25.23E	0–1	3.8L,4.1		
MOS	V	05 19 57 22.2–1.4	34.15N	25.15E	33	4.3b,4.1		
HLW	V	05 19 57 25.1	34.01N	25.55E	31–29	3.3L,3.2		
GII	V	05 19 57 27.1–.00	33.85N	25.95E	1–1	4.2b,4.1		
DDA	V	05 19 57 52.6	36.19N	26.23E	65	3.9,4.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=38.4.							
CSEM	Event type ke. Error ellipse: s-maj=4.9km s-min=2.6km az=40.0.							
IDC	Error ellipse: s-maj=13.1km s-min=11.8km az=20.0.							
ATH	Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=354.0.							
THE	Event type ke. Error ellipse: s-maj=2.6km s-min=0.6km az=175.0.							
MOS	Error ellipse: s-maj=10.0km s-min=5.2km az=78.6.							
GII	Event type ke.							
ISC	**V**	**05 22 06 24.4–1.7**	**34.16N–.06**	**25.29E–.03**	**0–10**	**3.8b**	**59**	**1-60**
ISCJB	V	05 22 06 22.7–1.4	34.07N–.04	25.32E–.04	1–9	3.5b		¶16708964
ATH	V	05 22 06 24.1	34.13N	25.30E	9–2	3.0L		
CSEM	V	05 22 06 24.9–.51	34.17N	25.29E	2	3.0L		
IDC	V	05 22 06 24.5–1.1	34.16N	25.25E	0	3.8L,3.6		
THE	V	05 22 06 26.3	34.25N	25.29E	0–2	3.0L,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.4km s-min=5.1km az=36.0.							
ATH	Event type ke. Error ellipse: s-maj=3.1km s-min=1.6km az=356.0.							
CSEM	Event type ke. Error ellipse: s-maj=8.6km s-min=4.9km az=175.0.							
IDC	Error ellipse: s-maj=18.5km s-min=13.0km az=60.0.							
THE	Event type ke. Error ellipse: s-maj=4.2km s-min=1.2km az=168.0.							
ISC	**V**	**06 18 24 21.1–1.4**	**35.71N–.03**	**26.95E–.02**	**10–12**		**56**	**0-3**
ATH	V	06 18 24 21.4	35.64N	26.96E	29–5	2.8L		¶16853284
ISCJB	V	06 18 24 22.1–.83	35.72N–.04	26.88E–.04	6–8	2.8L		
CSEM	V	06 18 24 22.0–.17	35.72N	26.86E	2	2.8L		
ISK	V	06 18 24 22.1	35.68N	26.86E	12	3.0		
DDA	V	06 18 24 28.6	36.02N	27.55E	7	3.2		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=13.3km s-min=1.1km az=154.0.							
ISCJB	Event type ke. Error ellipse: s-maj=7.9km s-min=3.6km az=151.6.							
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=151.0.							
DDA	Event type ke.							
ISC	**V**	**08 07 37 24.8–1.3**	**34.43N–.04**	**26.82E–.04**	**90–14**		**93**	**1-7**
ISK	V	08 07 37 24.6	34.35N	26.82E	62	3.6		¶16853370
ISCJB	V	08 07 37 25.8–.47	34.42N–.05	26.80E–.05	73–14	3.6		
ATH	V	08 07 37 25.2	34.37N	26.89E	40–3	2.6L		
CSEM	V	08 07 37 27.3–.16	34.44N	26.81E	60	2.5L		
THE	V	08 07 37 31.1	34.72N	26.65E	78–4	2.5L		
HLW	V	08 07 37 31.5	34.00N	26.96E	30–19	2.8L,2.7		
DDA	V	08 07 38 01.0	36.98N	28.46E	7	2.9,2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=5.6km az=152.0.							
ATH	Event type ke. Error ellipse: s-maj=5.0km s-min=1.9km az=319.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.2km s-min=3.6km az=173.0.							
THE	Event type ke. Error ellipse: s-maj=5.9km s-min=1.4km az=341.0.							
ISC	**V**	**08 22 21 26.4–2.0**	**35.0N–.10**	**26.41E–.04**	**7–12**		**36**	**0-3**
THE	V	08 22 21 25.6	34.93N	26.41E	3–3	2.5L		¶16882029
ATH	V	08 22 21 26.5	34.96N	26.40E	12–2	2.3L		
CSEM	V	08 22 21 26.6–.68	34.97N	26.39E	2	2.3L		
ISC	Event type ke.							
THE	Event type ke. Error ellipse: s-maj=3.0km s-min=0.5km az=226.0.							
ATH	Event type ke. Error ellipse: s-maj=5.2km s-min=1.3km az=344.0.							
CSEM	Event type ke. Error ellipse: s-maj=19.7km s-min=4.9km az=166.0.							
ISC	**V**	**13 19 06 29.7–1.3**	**34.81N–.04**	**25.41E–.03**	**8–9**	**3.8b**	**159**	**0-60**
ISCJB	V	13 19 06 28.5–1.0	34.71N–.05	25.40E–.03	4–5	3.8b		¶16709797
IDC	V	13 19 06 28.3–1.2	34.79N	25.45E	0	3.9b,3.8L		
CSEM	V	13 19 06 30.4–.44	34.80N	25.37E	0–2	3.5L,3.8L		
THE	V	13 19 06 30.8	34.84N	25.34E	2–2	3.5L,3.8L		
ATH	V	13 19 06 30.6	34.84N	25.33E	17–0	3.5L,3.8L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=4.6.							
IDC	Error ellipse: s-maj=22.6km s-min=9.4km az=35.0.							
CSEM	Event type ke. Error ellipse: s-maj=8.1km s-min=3.3km az=175.0.							
THE	Event type ke. Error ellipse: s-maj=2.5km s-min=0.6km az=150.0.							
ATH	Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=353.0.							
ISC	**V**	**14 17 37 24.4–1.4**	**35.63N–.03**	**26.36E–.02**	**10–12**		**77**	**1-4**
ISK	V	14 17 37 24.1	35.62N	26.35E	17	3.1		¶16853567
ATH	V	14 17 37 24.9	35.56N	26.40E	39–6	3.0L		
ISCJB	V	14 17 37 25.6–.47	35.63N–.03	26.39E–.03	28–6	3.0L		
THE	V	14 17 37 25.4	35.63N	26.37E	11–2	3.3L		
CSEM	V	14 17 37 25.5–.11	35.62N	26.38E	20	3.0L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=8.0km s-min=1.1km az=166.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=159.7.							
THE	Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=131.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=157.0.							
ISC	**V**	**17 21 16 45.9–.70**	**35.87N–.02**	**24.55E–.02**	**68–5**	**3.6b**	**461**	**1-44**
ISCJB	V	17 21 16 44.8–.25	35.86N–.02	24.56E–.02	84–3	3.4b		¶16710132
HLW	V	17 21 16 45.0	35.79N	24.84E	33–24	3.3L		
IDC	V	17 21 16 45.8–1.0	35.39N	24.66E	93–7	3.5,3.3		
ATH	V	17 21 16 45.5	35.90N	24.55E	67–2	3.2L,3.3		
CSEM	V	17 21 16 46.2–.12	35.82N	24.53E	60	3.2L,3.3		
ISK	V	17 21 16 46.4	35.92N	24.48E	64	3.4,3.3		
THE	V	17 21 16 47.0	35.90N	24.55E	60–1	3.5L,3.3		
DDA	V	17 21 17 01.3	36.88N	25.75E	25	3.8,3.3		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.9km s-min=1.8km az=25.1.							
IDC	Error ellipse: s-maj=24.3km s-min=17.0km az=7.0.							
ATH	Event type ke. Error ellipse: s-maj=2.8km s-min=0.6km az=181.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=34.0.							
THE	Event type ke. Error ellipse: s-maj=1.9km s-min=0.3km az=174.0.							
DDA	Event type ke.							
ISC	**V**	**19 19 03 02.6–.71**	**34.27N–.03**	**23.83E–.03**	**17–4**	**4.5b,4.3s**	**764**	**1-129**
ISK	V	19 19 02 58.0	34.11N	23.35E	21	4.3L,4.3s		¶16529663
HLW	V	19 19 02 58.6	34.66N	23.75E	33–23	4.1L,4.3s		
IDC	V	19 19 02 59.3–.63	34.27N	23.78E	0	4.3,4.3b		
NEIC	V	19 19 03 00.1–1.9	34.23N	23.78E	4–12	4.5b,4.1L		
CSEM	V	19 19 03 00.4–.14	34.13N	23.65E	10	4.7b,4.1L		
PDG	V	19 19 03 01.0–.30	34.44N	23.53E	7–8	4.3L,4.1L		
MOS	V	19 19 03 01.5–1.5	34.30N	23.80E	17	4.7b,4.3s		
ATH	V	19 19 03 01.9	34.28N	23.64E	25–3	4.0L,4.3s		
THE	V	19 19 03 02.2	34.28N	23.67E	0–2	4.3L,4.3s		
GII	V	19 19 03 09.5–.00	34.09N	24.64E	1–0	4.3b,4.2		
NIC	V	19 19 03 11.2–.30	33.98N	24.52E	126	5.1b,4.7L		
DDA	V	19 19 03 45.8	36.16N	26.74E	58	4.0,4.7L		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=14.6km s-min=11.3km az=173.0.							
NEIC	Event type se. Error ellipse: s-maj=7.6km s-min=4.1km az=188.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=34.0.							
PDG	Event type ke. Error ellipse: s-maj=9.0km s-min=4.2km az=90.0.							
MOS	Error ellipse: s-maj=5.9km s-min=3.1km az=87.2.							
ATH	Event type ke. Error ellipse: s-maj=7.0km s-min=2.1km az=29.0.							
THE	Event type ke. Error ellipse: s-maj=4.1km s-min=1.2km az=207.0.							
GII	Event type ke.							
ISC	**V**	**19 19 08 41.4–.74**	**34.20N–.05**	**23.76E–.04**	**31–4**	**4.0b**	**206**	**1-80**
IDC	V	19 19 08 37.3–.90	34.24N	23.75E	0	4.1b,4.0		¶16535765
ISCJB	V	19 19 08 39.9–.65	34.04N–.04	23.79E–.04	37–6	3.9b,4.0		
CSEM	V	19 19 08 40.4–.26	34.10N	23.71E	20	3.2L,4.0		
NEIC	V	19 19 08 40.9–2.3	34.19N	23.78E	24–17	4.1b,3.5L		
ATH	V	19 19 08 46.4	34.64N	23.86E	32–1	3.2L,3.5L		
THE	V	19 19 08 47.8	34.64N	23.83E	16–0	3.5L,3.5L		
GII	V	19 19 08 49.4–.00	34.34N	24.84E	1–0	4.4b,4.3		
ISK	V	19 19 08 50.9	34.83N	24.67E	5	3.6L,4.3		

ISC	Event type ke.							
IDC	Error ellipse: s-maj=20.3km s-min=14.8km az=157.0.							
ISCJB	Event type ke. Error ellipse: s-maj=8.0km s-min=4.1km az=27.8.							
CSEM	Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=28.0.							
NEIC	Event type se. Error ellipse: s-maj=11.4km s-min=6.7km az=186.0.							
ATH	Event type ke. Error ellipse: s-maj=2.1km s-min=1.3km az=204.0.							
THE	Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=202.0.							
GII	Event type ke.							
ISC	**V**	**19 20 04 53.6–1.8**	**34.65N–.10**	**23.92E–.05**	**25–7**	**3.7b**	**41**	**0-45**
IDC	V	19 20 04 42.0–3.4	33.88N	23.95E	0	3.9b,3.7		¶16710323
ATH	V	19 20 04 52.8	34.64N	23.90E	28–2	2.8L,3.7		
CSEM	V	19 20 04 53.7–.43	34.66N	23.91E	15	2.6L,3.7		
THE	V	19 20 04 55.3	34.73N	23.95E	13–2	2.6L,3.7		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=58.5km s-min=26.1km az=16.0.							
ATH	Event type ke. Error ellipse: s-maj=9.8km s-min=2.2km az=25.0.							
CSEM	Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=17.0.							
THE	Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=23.0.							
ISC	**V**	**19 20 12 20.9–1.3**	**34.1N–.20**	**23.76E–.08**	**30**	**3.8b**	**13**	**2-47**
IDC	V	19 20 12 16.7–2.4	34.11N	23.72E	0	3.9,3.9b		¶16535769
ISC	Event type ke.							
IDC	Error ellipse: s-maj=45.4km s-min=18.4km az=21.0.							
ISC	**V**	**19 20 39 02.2–.57**	**34.26N–.03**	**23.73E–.02**	**18–2**	**5.0s,4.9b**	**972**	**1-119**
ISCJB	V	19 20 38 57.8–.49	34.20N–.01	23.71E–.01	7–3	5.0s,4.8b		¶17203992
HLW	V	19 20 38 58.0	34.60N	23.74E	33–25	4.1L,4.8b		
IDC	V	19 20 38 58.4–.51	34.34N	23.76E	0	4.9s,4.8		
ISK	V	19 20 38 59.6	34.16N	23.56E	37	4.6L,4.8		
CSEM	V	19 20 38 59.9–.10	34.21N	23.73E	10	5.1b,4.1W		
PDG	V	19 20 39 00.3–.28	34.41N	23.51E	10–7	4.8L,4.1W		
ATH	V	19 20 39 00.1	34.26N	23.62E	22–3	4.5L,4.1W		
MOS	V	19 20 39 02.3–1.2	34.34N	23.69E	33	5.1b,4.9s		
GCMT	V	19 20 39 03.3–.20	34.32N	23.66E	18–1	5.2W,4.9s		
THE	V	19 20 39 03.8	34.39N	23.72E	11–1	4.6L,4.9s		
NEIC	V	19 20 39 03.3–1.4	34.38N	23.72E	26–9	4.9b,4.6L		
GII	V	19 20 39 08.8–.00	34.08N	24.62E	5	4.4b,4.2		
NIC	V	19 20 39 08.0–.40	35.59N	24.23E	138	5.3b,5.0L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=32.9.							
IDC	Error ellipse: s-maj=12.0km s-min=10.4km az=163.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=30.0.							
PDG	Event type ke. Error ellipse: s-maj=7.9km s-min=3.5km az=90.0.							
ATH	Event type ke. Error ellipse: s-maj=5.6km s-min=1.5km az=25.0.							
MOS	Error ellipse: s-maj=5.2km s-min=2.8km az=90.0.							
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c45; s108,c182; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.37±.03 $M_{\theta\theta}$-0.47±.02; $M_{\phi\phi}$0.84±.03; $M_{r\theta}$0.32±.06; $M_{\theta\phi}$0.32±.02; $M_{\phi r}$-0.28±.06; Best double couple: NP1:ϕ_s335.00000°,δ71.00000° ,λ-144.00000°. NP2:ϕ_s232.00000°,δ56.00000°,λ-24.00000°. Principal axes: T 0.9540,Plg9.0000°,Azm101.0000°; N -0.1010,Plg49.0000°,Azm360.0000° ; P -0.8530,Plg39.0000°,Azm198.0000° $M_0$0.90400×10^{17}							
THE	Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=191.0.							
NEIC	Event type se. Error ellipse: s-maj=6.8km s-min=3.8km az=179.0.							
GII	Event type ke.							
ISC	**V**	**19 23 53 22.1–.00**	**34.11N–.05**	**23.71E–.03**	**16–4**	**4.0b**	**221**	**1-86**
MOS	V	19 23 53 19.5–1.6	33.91N	23.75E	15	4.3b		¶16535773
ISCJB	V	19 23 53 20.1–1.2	33.94N–.05	23.68E–.03	19–8	4.0b,3.2s		
CSEM	V	19 23 53 20.3–.37	34.01N	23.69E	5	4.2b,3.2s		
IDC	V	19 23 53 20.6–2.1	34.19N	23.75E	0	4.0b,3.9		
ATH	V	19 23 53 20.7	34.09N	23.64E	7–2	3.6L,3.9		
NEIC	V	19 23 53 21.4–.79	34.06N	23.77E	10	4.0b,3.8L		
THE	V	19 23 53 25.8	34.37N	23.71E	0–2	3.3L,3.8L		
VIE	V	19 23 53 29.4	33.97N	23.70E	65	3.3L,3.8L		
ISC	Event type ke.							
MOS	Error ellipse: s-maj=12.9km s-min=5.9km az=85.0.							
ISCJB	Event type ke. Error ellipse: s-maj=8.1km s-min=4.4km az=9.9.							
CSEM	Event type ke. Error ellipse: s-maj=9.7km s-min=4.9km az=16.0.							
IDC	Error ellipse: s-maj=38.7km s-min=17.6km az=20.0.							
ATH	Event type ke. Error ellipse: s-maj=3.0km s-min=1.3km az=6.0.							
NEIC	Event type se. Error ellipse: s-maj=15.2km s-min=6.2km az=197.0.							
THE	Event type ke. Error ellipse: s-maj=3.3km s-min=1.1km az=200.0.							
VIE	Event type ke.							
ISC	**V**	**20 04 59 55.7–1.6**	**34.94N–.08**	**26.29E–.04**	**16–7**		**43**	**0-3**
CSEM	V	20 04 59 54.5–.45	34.86N	26.30E	8	2.7L		¶16882314
ATH	V	20 04 59 54.8	34.88N	26.28E	16–3	2.6L		
THE	V	20 04 59 54.9	34.90N	26.30E	2–2	2.7L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=10.4km s-min=4.2km az=165.0.							
ATH	Event type ke. Error ellipse: s-maj=4.8km s-min=1.3km az=348.0.							
THE	Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=173.0.							
ISC	**V**	**20 13 57 59.9–2.2**	**34.7N–.10**	**23.76E–.07**	**15–13**		**38**	**0-2**
ATH	V	20 13 57 59.3	34.61N	23.75E	11–5	3.0L		¶16882321
CSEM	V	20 13 57 59.1–.59	34.59N	23.75E	2	3.5L		
THE	V	20 13 58 00.6	34.68N	23.80E	0–3	3.5L		
ISC	Event type ke.							
ATH	Event type ke. Error ellipse: s-maj=6.0km s-min=1.8km az=49.0.							
CSEM	Event type ke. Error ellipse: s-maj=10.9km s-min=6.1km az=9.0.							
THE	Event type ke. Error ellipse: s-maj=4.9km s-min=1.1km az=214.0.							
ATH	**V**	**21 11 37 27.6**	**35.38N**	**26.26E**	**44–1**	**1.7L**		
CSEM	V	21 11 37 27.6	35.38N	26.26E	44	1.7L		¶600917157
ATH	Event type ke. Error ellipse: s-maj=5.9km s-min=1.4km az=172.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ATH	**V**	**22 05 10 51.5**	**34.34N**	**23.55E**	**22–3**	**2.0L**		
CSEM	V	22 05 10 51.5	34.34N	23.55E	22	2.0L		¶600917194
ATH	Event type ke. Error ellipse: s-maj=5.0km s-min=2.1km az=29.0.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**23 14 06 37.7–.77**	**35.72N–.02**	**26.21E–.02**	**21–3**	**3.8b**	**215**	**1-77**
IDC	V	23 14 06 34.2–.93	35.78N	26.21E	0	3.9,3.8		¶16710718
ATH	V	23 14 06 37.6	35.69N	26.20E	38–1	3.6L,3.8		
CSEM	V	23 14 06 38.5–.13	35.71N	26.22E	20–0	3.8L,3.8		
ISK	V	23 14 06 38.3	35.80N	26.29E	21	3.4L,3.8		
THE	V	23 14 06 39.9	35.65N	26.22E	30–11	3.8L,3.8		
DDA	V	23 14 06 45.0	35.84N	26.09E	31	3.5L,3.8		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=32.0km s-min=10.4km az=153.0.							
ATH	Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=169.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=171.0.							
THE	Event type ke. Error ellipse: s-maj=11.5km s-min=1.1km az=70.0.							
ISC	**V**	**24 16 37 55.1–.99**	**35.56N–.03**	**26.76E–.02**	**15–7**	**3.1b**	**124**	**0-44**
IDC	V	24 16 37 52.8–1.4	35.38N	26.79E	0	3.4b,3.2		¶16710828
ATH	V	24 16 37 54.6	35.57N	26.75E	28–1	3.1L,3.2		
ISCJB	V	24 16 37 55.5–.47	35.54N–.04	26.78E–.03	26–5	3.2b,3.2		
CSEM	V	24 16 37 55.2–.21	35.57N	26.76E	15	3.2L,3.2		
THE	V	24 16 37 55.6	35.52N	26.76E	9–2	3.2L,3.2		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=48.0km s-min=16.9km az=163.0.							
ATH	Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=150.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.6km s-min=3.3km az=152.9.							
CSEM	Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=147.0.							
THE	Event type ke. Error ellipse: s-maj=2.6km s-min=0.6km az=152.0.							
ISC	**V**	**25 23 52 17.8–.74**	**35.27N–.02**	**26.18E–.02**	**18–2**	**4.0b**	**340**	**0-78**
IDC	V	25 23 52 16.0–.73	35.43N	26.15E	0	3.9,3.9b		¶16710931
ATH	V	25 23 52 16.6	35.31N	26.18E	28–1	3.7L,3.9b		
THE	V	25 23 52 17.6	35.31N	26.16E	0–0	3.9L,3.9b		
CSEM	V	25 23 52 17.7–.10	35.27N	26.18E	15	3.7L,3.9b		
ISCJB	V	25 23 52 17.1–.32	35.24N–.02	26.22E–.02	27–3	3.8b,3.9b		
ISK	V	25 23 52 18.1	35.53N	26.19E	2	3.5L,3.9b		
HLW	V	25 23 52 18.3	35.45N	26.37E	33–22	3.3L,3.9b		
GII	V	25 23 52 23.3–.29	34.90N	26.57E	10	4.1b,3.8		
ISC	Event type ke.							
IDC	Error ellipse: s-maj=22.5km s-min=8.7km az=171.0.							
ATH	Event type ke. Error ellipse: s-maj=2.0km s-min=0.7km az=170.0.							

THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=30.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.1km az=29.0.
GII Event type ke.
ISC V 26 01 18 24.3–2.2 34.33N–.08 23.73E–.06 17–10 3.1s 82 1-63
IDC V 26 01 18 18.3–6.1 33.98N 23.74E 0 3.9L,3.8b **¶16710936**
ATH V 26 01 18 21.1 34.23N 23.56E 19–4 3.5L,3.8b
CSEM V 26 01 18 23.9–.70 34.31N 23.73E 15 3.1L,3.8b
THE V 26 01 18 25.8 34.42N 23.75E 6–2 3.1L,3.8b
ISK V 26 01 18 29.7 34.71N 24.00E 89 3.7,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=102.4km s-min=45.5km az=29.0.
ATH Event type ke. Error ellipse: s-maj=6.5km s-min=2.0km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=14.8km s-min=8.0km az=24.0.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.6km az=288.0.
ISC V 26 08 35 04.1–.89 35.79N–.03 23.49E–.03 10–7 59 0-45
ISCJB V 26 08 35 04.3–.54 35.79N–.05 23.51E–.05 5–5 3.6b **¶600917300**
IDC V 26 08 35 04.2–1.7 33.32N 25.69E 0 3.8b,3.6
CSEM V 26 08 35 04.1 35.81N 23.51E 16 3.3L,3.6
ATH V 26 08 35 04.1 35.81N 23.51E 16–1 3.3L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=3.3km az=43.2.
IDC Error ellipse: s-maj=223.8km s-min=26.7km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=226.0.
ISC V 27 17 24 30.9–.51 35.77N–.02 23.47E–.02 15–3 4.9b,3.4s 1224 0-145
ISK V 27 17 24 27.4 35.72N 23.35E 2 4.5L,3.4s **¶16551195**
ISCJB V 27 17 24 29.7–.36 35.67N–.01 23.46E–.02 20–2 4.8b,3.4s
NEIC V 27 17 24 30.9 35.79N 23.55E 0 4.8b,4.7L
THE V 27 17 24 30.9 35.79N 23.55E 0–0 4.7L,4.7L
ATH V 27 17 24 30.1 35.78N 23.51E 21–1 4.6L,4.7L
IDC V 27 17 24 30.4–1.9 35.77N 23.51E 11–10 4.7,4.7b
CSEM V 27 17 24 30.7–.08 35.71N 23.47E 15 4.8b,4.2W
MOS V 27 17 24 31.7–1.0 35.76N 23.53E 30 5.0b,4.2W
HLW V 27 17 24 31.2 35.89N 23.76E 33–23 4.4L,4.2W
PDG V 27 17 24 32.2–.35 35.91N 23.19E 10–11 4.7L,4.2W
NIC V 27 17 24 34.2–.20 36.52N 23.87E 25 5.1b,4.7L
GII V 27 17 24 36.3–.19 35.59N 24.04E 10 4.3b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=34.5.
NEIC Event type fe. Felt [IV] at Platanos and [III] at Chania. Also felt at Iraklion, Kalivai, Kolimvarion and Rethymnon. After THE. Moment Tensor Solution. s12 Moment tensor: Scale 10^{15}Nm; M_{rr}-2.94 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$3.15 $M_{r\theta}$0.33 $M_{\theta\phi}$0.43 $M_{r\phi}$0.85 Best double couple: NP1: ϕ_s191.00000°,δ53.00000°,λ-85.00000°. NP2:ϕ_s3.00000°,δ37.00000°,λ-97.00000°. Principal axes: T 3.3300,Plg8.0000°,Azm278.0000°; N -0.2500,Plg4.0000°,Azm8.0000° ; P -3.0800,Plg81.0000°,Azm126.0000° $M_0$3.20000×10^{15}
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=222.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=218.0.
IDC Error ellipse: s-maj=11.3km s-min=9.2km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=36.0.
MOS Error ellipse: s-maj=5.3km s-min=3.2km az=77.4.
PDG Event type ke. Error ellipse: s-maj=13.5km s-min=4.3km az=90.0.
GII Event type ke.
ISC V 27 23 01 51.3–1.9 34.2N–.10 26.34E–.04 25 28 1-3
ISCJB V 27 23 01 52.1–1.2 34.22N–.07 26.29E–.07 25 **¶600917360**
ATH V 27 23 01 52.2 34.28N 26.25E 31–2 2.5L
CSEM V 27 23 01 52.0–.41 34.25N 26.28E 15 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.2km s-min=8.0km az=164.2.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=1.5km az=347.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=6.0km az=164.0.
ISC V 29 03 16 10.1–.95 34.56N–.07 24.37E–.03 54–6 3.6b 126 0-45
ATH V 29 03 16 08.7 34.49N 24.36E 53–4 3.8L **¶16711176**
ISK V 29 03 16 09.5 34.72N 24.40E 29 3.3L
ISCJB V 29 03 16 09.1–.70 34.54N–.06 24.38E–.04 68–5 3.5b
THE V 29 03 16 10.9 34.54N 24.34E 44–3 3.1L
IDC V 29 03 16 10.5–1.6 34.52N 24.50E 65–11 3.7,3.5
CSEM V 29 03 16 10.1–.48 34.55N 24.37E 60 3.1L,3.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.8km s-min=2.0km az=7.0.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.7km az=11.7.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=1.2km az=7.0.
IDC Error ellipse: s-maj=23.9km s-min=18.0km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=11.8km s-min=4.3km az=14.0.
ISC V 30 09 15 46.0–1.9 34.28N–.07 23.74E–.05 5–10 45 1-45
ISCJB V 30 09 15 44.5–1.8 34.17N–.05 23.65E–.08 10–11 3.4b,2.8s **¶16702285**
IDC V 30 09 15 44.2–1.7 34.31N 23.65E 0 4.0L,3.6
CSEM V 30 09 15 45.2–.40 34.22N 23.66E 5 3.2L,3.6
ATH V 30 09 15 46.2 34.24N 23.75E 24–5 3.2L,3.6
THE V 30 09 15 47.5 34.32N 23.72E 3–3 3.2L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=8.6km az=18.9.
IDC Error ellipse: s-maj=48.6km s-min=26.6km az=126.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=5.9km az=38.0.
ATH Event type ke. Error ellipse: s-maj=8.9km s-min=2.6km az=14.0.
THE Event type ke. Error ellipse: s-maj=3.3km s-min=1.7km az=93.0.
ISC V 30 22 58 12.4–1.3 34.92N–.05 26.02E–.02 5–8 3.6b 157 0-63
DDA V 30 22 58 09.9 34.82N 26.06E 5 3.8 **¶16702348**
ISCJB V 30 22 58 11.5–.81 34.85N–.04 26.03E–.02 8–4 3.9s,3.5b
THE V 30 22 58 11.1 34.86N 26.06E 6–0 3.3L,3.5b
IDC V 30 22 58 11.1–1.2 34.80N 25.96E 0 3.9s,3.8
ATH V 30 22 58 12.2 34.95N 26.03E 16–1 3.1L,3.8
CSEM V 30 22 58 13.1–.35 34.97N 26.01E 2 3.1L,3.8
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.0km az=175.8.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=353.0.
IDC Error ellipse: s-maj=24.8km s-min=16.2km az=2.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.8km az=350.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=3.2km az=175.0.
ISC VI 01 01 14 23.6–.90 34.94N–.03 25.54E–.02 19–2 135 0-4
ISK VI 01 01 14 21.7 34.70N 25.29E 36 3.6 **¶16882682**
THE VI 01 01 14 22.8 34.94N 25.56E 1–0 2.8L
ATH VI 01 01 14 22.6 34.95N 25.55E 19–1 2.8L
ISCJB VI 01 01 14 23.1–.66 34.94N–.04 25.55E–.02 7–3 2.8L
CSEM VI 01 01 14 23.6–.31 34.99N 25.54E 2 2.8L
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=167.0.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=352.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.3km az=175.7.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=3.3km az=177.0.
ISC VI 01 10 38 14.8–5.5 34.48N–.03 26.12E–.04 38–8 70 1-8
ATH VI 01 10 38 12.7 34.43N 26.27E 10–41 2.5L **¶16882695**
CSEM VI 01 10 38 13.7–.63 34.47N 26.14E 24–6 2.5L
ISCJB VI 01 10 38 13.1–.48 34.46N–.04 26.18E–.06 53–18 2.5L
HLW VI 01 10 38 14.8 34.52N 26.21E 33–23 3.5
ISK VI 01 10 38 14.1 34.78N 26.05E 12 3.6L
THE VI 01 10 38 15.0 34.55N 26.08E 8–1 2.5L
DDA VI 01 10 39 32.4 35.46N 27.34E 45 3.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=42.0km s-min=1.5km az=345.0.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.9km az=118.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.5km az=37.2.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=355.0.
ISC VI 02 09 07 52.9–1.1 35.61N–.03 26.44E–.02 51–10 153 1-9
ISCJB VI 02 09 07 51.6–.36 35.59N–.03 26.43E–.03 65–7 **¶16882725**
CSEM VI 02 09 07 52.7–.13 35.63N 26.42E 30 3.4
ATH VI 02 09 07 52.2 35.67N 26.43E 44–3 3.3L
THE VI 02 09 07 53.7 35.66N 26.43E 38–6 3.4L
ISK VI 02 09 07 54.2 35.78N 26.55E 32 3.4
HLW VI 02 09 07 55.2 35.47N 26.69E 33–33 3.0,2.9L

DDA VI 02 09 08 16.4 35.90N 26.77E 26 3.4,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=156.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=156.0.
ATH Event type ke. Error ellipse: s-maj=4.3km s-min=1.2km az=143.0.
THE Event type ke. Error ellipse: s-maj=6.6km s-min=0.8km az=159.0.
ISC VI 06 03 39 08.5–1.5 34.55N–.06 26.64E–.03 17–9 3.7b 94 1-59
IDC VI 06 03 39 06.2–1.1 34.65N 26.72E 0 3.8,3.8b **¶16856458**
ISCJB VI 06 03 39 07.7–1.1 34.44N–.05 26.68E–.04 23–9 3.7b,3.8b
THE VI 06 03 39 09.0 34.54N 26.64E 6–4 3.2L,3.8b
ATH VI 06 03 39 10.2 34.61N 26.55E 18–4 3.0L,3.8b
CSEM VI 06 03 39 10.8–.69 34.66N 26.61E 15 3.0L,3.8b
DDA VI 06 03 40 05.9 35.01N 27.02E 12 3.6,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=16.4km az=178.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.8km az=173.5.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=1.8km az=286.0.
ATH Event type ke. Error ellipse: s-maj=6.5km s-min=1.8km az=351.0.
CSEM Event type ke. Error ellipse: s-maj=15.8km s-min=7.0km az=167.0.
ISC VI 06 14 27 11.3–1.4 34.17N–.04 26.26E–.03 8–10 78 1-44
ATH VI 06 14 27 10.2 34.10N 26.29E 11–5 2.9L **¶16856496**
ISCJB VI 06 14 27 10.6–1.5 34.13N–.03 26.31E–.04 11–11 3.5b
IDC VI 06 14 27 10.6–1.4 34.15N 26.27E 0 3.8L,3.6
CSEM VI 06 14 27 11.3–.17 34.17N 26.24E 2 2.9L,3.6
HLW VI 06 14 27 12.7 34.34N 26.34E 31–20 2.9,2.8L
THE VI 06 14 27 14.8 34.36N 26.15E 0–2 2.9L,2.8L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.9km s-min=2.5km az=2.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=148.3.
IDC Error ellipse: s-maj=26.1km s-min=19.6km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=60.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.4km az=164.0.
ISC VI 10 23 30 07.2–1.3 34.92N–.05 26.08E–.02 7–8 3.5b 104 0-43
ATH VI 10 23 30 04.2 34.84N 26.19E 27–4 3.3L **¶16856912**
THE VI 10 23 30 06.7 34.92N 26.08E 0–1 3.3L
IDC VI 10 23 30 06.7–1.2 34.86N 26.07E 0 3.3,3.3b
CSEM VI 10 23 30 06.7–.55 34.84N 26.06E 2 3.3L,3.3b
ISK VI 10 23 30 09.3 35.04N 26.13E 15 3.0L,3.3b
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=9.5km s-min=1.8km az=4.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=164.0.
IDC Error ellipse: s-maj=28.9km s-min=10.9km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=4.2km az=174.0.
ISC VI 13 01 11 10.3–.72 35.09N–.02 24.49E–.02 9–5 3.5b 193 0-85
IDC VI 13 01 11 07.6–1.0 34.86N 24.73E 0 4.4,4.4s **¶16613918**
ISCJB VI 13 01 11 09.0–.50 35.03N–.03 24.47E–.02 8–3 4.5s,3.6b
ATH VI 13 01 11 09.1 35.10N 24.49E 19–1 3.1L,3.6b
CSEM VI 13 01 11 09.9–.16 35.09N 24.49E 2 3.1L,3.6b
THE VI 13 01 11 10.3 35.08N 24.49E 0–1 3.1L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=8.8km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.9km az=5.9.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=181.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.0km az=9.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=198.0.
ISC VI 14 17 32 53.2–1.9 34.52N–.08 23.71E–.05 33–10 3.6b 73 0-46
IDC VI 14 17 32 46.7–1.4 34.54N 23.52E 0 3.6b,3.5 **¶16730492**
THE VI 14 17 32 49.8 34.32N 23.57E 0–3 3.3L,3.5
CSEM VI 14 17 32 55.7–.53 34.65N 23.81E 20 2.7L,3.5
ATH VI 14 17 32 56.9 34.74N 23.93E 36–2 2.7L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=47.8km s-min=22.7km az=142.0.
THE Event type ke. Error ellipse: s-maj=5.1km s-min=1.6km az=218.0.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=5.9km az=24.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.9km az=34.0.
ATH VI 15 01 08 53.9 35.14N 24.57E 32–2 1.0L
CSEM VI 15 01 08 53.9 35.14N 24.57E 32 1.0L **¶602546920**
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.2km az=223.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 17 00 21 49.3–1.2 34.83N–.03 26.10E–.02 1–8 3.9b,3.1s 438 0-81
CSEM VI 17 00 21 49.9–.17 34.80N 26.08E 2 4.0L,3.1s **¶16638384**
ISCJB VI 17 00 21 49.2–.50 34.79N–.02 26.11E–.02 9–3 3.9b,3.2s
ATH VI 17 00 21 49.5 34.89N 26.11E 17–0 3.8L,3.2s
NEIC VI 17 00 21 49.4 34.89N 26.11E 17 4.1b,4.0L
IDC VI 17 00 21 49.5–.77 34.81N 26.07E 0 4.0,4.0b
HLW VI 17 00 21 50.5 34.87N 26.18E 24–11 4.1,4.0b
THE VI 17 00 21 51.9 34.95N 26.07E 0–1 4.0L,4.0b
ISK VI 17 00 21 51.0 35.03N 26.05E 2 3.9L,4.0b
DDA VI 17 00 21 59.7 35.38N 26.82E 9 3.7L,4.0b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=5.2.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.7km az=346.0.
NEIC Event type se. After ATH.
IDC Error ellipse: s-maj=16.4km s-min=8.6km az=12.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=162.0.
ATH VI 19 00 20 39.7 34.83N 24.19E 20–1 1.8L
CSEM VI 19 00 20 39.7 34.83N 24.19E 20 1.8L **¶602547043**
ATH Event type ke. Error ellipse: s-maj=7.8km s-min=1.9km az=285.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 20 09 54 60.0–1.1 34.97N–.04 24.40E–.02 13–9 51 0-1
ATH VI 20 09 54 59.0 34.92N 24.39E 32–1 2.8L **¶16883254**
CSEM VI 20 09 54 59.9–.29 34.94N 24.39E 15 2.8L
ISCJB VI 20 09 55 00.6–.65 34.97N–.05 24.40E–.03 11–5 2.8L
THE VI 20 09 55 00.3 34.98N 24.42E 0–1 2.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=357.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.8km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.4km az=1.7.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=205.0.
ATH VI 20 13 24 59.0 34.83N 25.27E 24–4 1.8L
CSEM VI 20 13 24 59.0 34.83N 25.27E 24 1.8L **¶602547078**
ATH Event type ke. Error ellipse: s-maj=5.9km s-min=1.4km az=359.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 23 00 16 57.2–1.0 34.08N–.08 25.15E–.04 20 3.7b 46 1-46
IDC VI 23 00 16 54.1–1.2 34.11N 25.05E 0 3.8,3.8b **¶17206790**
ISCJB VI 23 00 16 55.9–.71 34.01N–.05 25.31E–.05 20 3.6b,3.8b
CSEM VI 23 00 17 00.8 34.25N 25.10E 42 2.8L,3.8b
ATH VI 23 00 17 00.8 34.25N 25.10E 42–3 2.8L,3.8b
ISC Event type ke.
IDC Error ellipse: s-maj=23.2km s-min=21.5km az=63.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.6km az=7.7.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=5.4km s-min=2.4km az=359.0.
ISC VI 24 22 05 52.2–1.5 35.24N–.05 23.26E–.05 23–13 81 1-3
ATH VI 24 22 05 52.0 35.26N 23.29E 39–1 3.0L **¶16881026**
ISCJB VI 24 22 05 52.1–1.0 35.22N–.05 23.23E–.06 28–5 3.0L
CSEM VI 24 22 05 52.4–.32 35.23N 23.25E 23–2 3.0L
THE VI 24 22 05 53.1 35.26N 23.29E 18–2 3.1L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=51.0.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=4.6km az=44.8.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=2.4km az=42.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.8km az=218.0.
ISC VI 25 13 27 23.4–1.4 34.17N–.03 23.75E–.04 8–8 3.9b,3.5s 136 1-80
IDC VI 25 13 27 22.7–1.1 34.10N 23.94E 0 4.0L,3.9 **¶16683779**
ISCJB VI 25 13 27 23.7–1.0 34.13N–.03 23.85E–.05 20–8 3.6b,3.5s
ATH VI 25 13 27 24.8 34.30N 23.62E 24–1 3.7L,3.5s
HLW VI 25 13 27 25.9 34.32N 24.13E 33–14 3.3,3.5s
CSEM VI 25 13 27 27.0–.81 34.38N 23.76E 10 3.5L,3.5s
THE VI 25 13 27 27.4 34.41N 23.73E 0–2 3.5L,3.5s

ISC Event type ke.
IDC Error ellipse: s-maj=20.6km s-min=16.3km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.1km az=155.3.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.2km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=17.4km s-min=8.4km az=11.0.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=1.4km az=194.0.

ISC	**VI**	**25 17 41 47.0–1.9**	**34.71N–.09**	**23.79E–.06**	**18–2**		**39**	**0-2**
ATH	VI	25 17 41 44.7	34.63N	23.72E	14–5	3.3L		¶16881049
CSEM	VI	25 17 41 44.6–.99	34.64N	23.68E	2	3.5L		
THE	VI	25 17 41 45.5	34.67N	23.73E	0–3	3.5L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.7km s-min=2.1km az=28.0.
CSEM Event type ke. Error ellipse: s-maj=16.5km s-min=10.6km az=28.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.6km az=213.0.

ISC	**VI**	**28 01 00 46.3–1.5**	**34.61N–.07**	**25.29E–.03**	**30–10**	**3.5b**	**64**	**1-45**
IDC	VI	28 01 00 44.5–6.1	34.51N	25.02E	34–26	3.5b,3.5L		¶17207106
ATH	VI	28 01 00 46.3	34.65N	25.28E	29–1	3.0L,3.5L		
CSEM	VI	28 01 00 46.3	34.65N	25.28E	29	3.0L,3.5L		
ISCJB	VI	28 01 00 47.3–.88	34.67N–.08	25.31E–.04	50–7	3.5b,3.5L		

ISC Event type ke.
ATH Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

ISC	**VI**	**29 17 04 54.7–.85**	**35.64N–.02**	**25.48E–.02**	**32–7**	**3.5b**	**149**	**0-44**
ISK	VI	29 17 04 52.6	35.58N	25.35E	21	4.0		¶16731791
ATH	VI	29 17 04 53.7	35.64N	25.46E	40–1	3.6L		
IDC	VI	29 17 04 54.2–2.2	35.59N	25.53E	26–21	3.6,3.6b		
ISCJB	VI	29 17 04 54.8–.30	35.62N–.02	25.45E–.03	42–6	3.6b,3.6b		
CSEM	VI	29 17 04 54.8–.14	35.66N	25.42E	20	3.6L,3.6b		
THE	VI	29 17 04 55.1	35.65N	25.48E	23–1	3.5L,3.6b		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=155.0.
IDC Error ellipse: s-maj=23.6km s-min=19.3km az=163.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.3km az=22.3.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=119.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=125.0.

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ISC	**I**	**02 04 18 24.3–1.1**	**34.05N–.04**	**28.69E–.03**	**19–4**	**4.1b**	**661**	**2-81**
BJI	I	02 04 18 16.9	34.10N	27.92E	10	4.7s,4.6b		¶15902764
MOS	I	02 04 18 20.4–1.2	33.83N	28.53E	17	4.3b,4.6b		
IDC	I	02 04 18 21.2–.85	34.07N	28.61E	0	4.2,4.1		
DDA	I	02 04 18 22.7	34.14N	28.57E	3	4.3L,4.1		
ISCJB	I	02 04 18 23.9–.20	34.01N–.01	28.67E–.01	33–3	4.5s,4.1b		
NEIC	I	02 04 18 23.2–.29	34.08N	28.66E	10	4.2b,4.1L		
ATH	I	02 04 18 25.5	34.15N	28.65E	35–7	4.0,4.1L		
CSEM	I	02 04 18 26.2–.08	34.01N	28.67E	40	4.3W,4.1b		
HLW	I	02 04 18 27.2	34.07N	28.85E	33–30	3.8,4.1b		
ISK	I	02 04 18 27.6	34.25N	28.53E	72	4.2L,4.1b		
THE	I	02 04 18 29.2	34.17N	28.54E	29–44	4.2L,4.1b		
NIC	I	02 04 18 29.6–.10	34.28N	29.05E	16	4.4b,4.1L		
GII	I	02 04 18 31.1–.00	33.62N	29.40E	1–0	4.2b,4.1		
NSSC	I	02 04 18 40.0–1.6	34.27N	30.45E	250–216	3.8L,4.1		

ISC Event type ke.
MOS Error ellipse: s-maj=8.5km s-min=4.5km az=97.5.
IDC Error ellipse: s-maj=19.0km s-min=12.2km az=10.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=32.3.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.6km az=15.0.
ATH Error ellipse: s-maj=4.0km s-min=2.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=36.0.
THE Event type ke. Error ellipse: s-maj=44.8km s-min=2.0km az=135.0.
GII Event type ke.
NSSC Error ellipse: s-maj=14.3km s-min=118.8km az=-1.0.

ISC	**I**	**02 16 00 21.9–1.6**	**33.89N–.07**	**25.49E–.03**	**23–11**	**3.8b**	**169**	**1-81**
IDC	I	02 16 00 19.2–.96	34.00N	25.49E	0	4.1L,3.9		¶16021230
CSEM	I	02 16 00 20.9–.35	33.83N	25.49E	10	3.4L,3.9		
ATH	I	02 16 00 20.0	33.79N	25.40E	25–7	3.5,3.9		
THE	I	02 16 00 23.6	34.00N	25.45E	0–2	3.4L,3.9		
DDA	I	02 16 00 37.0	34.82N	26.46E	19	3.9L,3.9		

ISC Event type ke.
IDC Error ellipse: s-maj=21.9km s-min=15.5km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=3.7km az=15.0.
ATH Error ellipse: s-maj=7.1km s-min=2.2km az=-1.0.
THE Event type ke. Error ellipse: s-maj=6.7km s-min=1.5km az=173.0.
DDA Event type ke.

ISC	**I**	**03 08 05 49.6–1.3**	**33.88N–.08**	**25.52E–.05**	**17**	**3.9b**	**32**	**1-79**
IDC	I	03 08 05 46.0–2.8	33.78N	25.37E	0	3.8,3.7L		¶17189310
ATH	I	03 08 05 50.1	33.90N	25.46E	22–1	3.5,3.7L		
CSEM	I	03 08 05 50.1	33.90N	25.46E	22	3.5,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=57.5km s-min=27.6km az=43.0.
ATH Error ellipse: s-maj=1.5km s-min=1.3km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**I**	**06 06 47 13.4–.70**	**32.38N–.04**	**30.77E–.04**	**35**	**3.5b**	**210**	**2-81**
IDC	I	06 06 47 09.1–1.3	32.42N	30.69E	0	4.0L,3.8		¶15908407
DDA	I	06 06 47 09.8	32.24N	30.59E	26	3.8,3.8		
ISCJB	I	06 06 47 12.5–.23	32.40N–.02	30.84E–.02	33	3.5b,3.8		
CSEM	I	06 06 47 14.2–.16	32.37N	30.82E	30	2.9L,3.8		
HLW	I	06 06 47 14.1	32.53N	30.90E	32–21	2.9,3.8		
GII	I	06 06 47 17.4–.12	32.28N	30.98E	32–0	3.4,3.8		
NIC	I	06 06 47 20.1–.30	32.81N	30.72E	36	4.3b,3.9L		
NSSC	I	06 06 47 40.0–1.7	33.24N	32.97E	126–120	3.1L,3.9L		

ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=18.2km az=22.0.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=150.2.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=71.0.
GII Event type ke.
NSSC Error ellipse: s-maj=8.8km s-min=54.0km az=-1.0.

ISC	**I**	**08 11 09 40.2–1.1**	**33.93N–.03**	**25.74E–.03**	**20–4**	**4.0b,3.6s**	**386**	**1-117**
ATH	I	08 11 09 35.7	33.79N	25.83E	17–1	3.8L,3.6s		¶15916134
IDC	I	08 11 09 37.0–.84	33.94N	25.69E	0	4.1,4.0		
ISCJB	I	08 11 09 38.6–.72	33.89N–.02	25.80E–.02	21–6	3.9b,3.5s		
MOS	I	08 11 09 39.9–1.6	33.93N	25.73E	28	4.2b,3.5s		
CSEM	I	08 11 09 39.4–.18	33.91N	25.74E	10	4.2b,3.5s		
THE	I	08 11 09 40.9	33.99N	25.63E	0–1	3.6L,3.5s		
HLW	I	08 11 09 40.3	34.14N	25.55E	30–17	3.9,3.5s		
ISK	I	08 11 09 50.8	34.79N	25.98E	21	3.5L,3.5s		

ISC Event type ke.
ATH Error ellipse: s-maj=2.2km s-min=1.3km az=-1.0.
IDC Error ellipse: s-maj=18.9km s-min=13.7km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=24.1.
MOS Error ellipse: s-maj=7.7km s-min=4.0km az=88.1.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=17.0.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=0.9km az=174.0.

ISC	**I**	**13 23 07 07.6–1.1**	**33.92N–.02**	**33.73E–.03**	**15–9**		**194**	**1-6**
HLW	I	13 23 07 08.9	34.08N	33.61E	30–31	3.1		¶15925981
CSEM	I	13 23 07 08.9–.09	33.92N	33.71E	20	3.3L		
NSSC	I	13 23 07 09.6–2.0	34.02N	33.85E	14–52	2.6L		
NIC	I	13 23 07 10.1–.20	34.04N	33.68E	13	3.3L		
DDA	I	13 23 07 12.7	34.48N	34.10E	8	3.3		
GII	I	13 23 07 13.2–.00	33.68N	33.75E	24	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.8km az=69.0.
NSSC Error ellipse: s-maj=8.9km s-min=64.6km az=-1.0.
DDA Event type ke.
GII Event type ke.

ISC	**I**	**18 03 46 09.1–2.4**	**33.90N–.09**	**28.14E–.09**	**35**		**59**	**3-7**
HLW	I	18 03 46 04.5	34.11N	27.93E	26–11	3.8,2.9L		¶601685943
ISCJB	I	18 03 46 08.1–1.1	33.86N–.06	28.26E–.06	33	3.8,2.9L		
CSEM	I	18 03 46 08.5–.44	33.81N	28.26E	10	2.9L,2.9L		
GII	I	18 03 46 11.4–.00	33.77N	28.50E	5–0	2.9,2.9L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.1km az=141.3.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.0km az=124.0.
GII Event type ke.

ISC	**I**	**20 04 32 29.6–1.9**	**35.96N–.09**	**29.15E–.03**	**9–11**		**35**	**0-2**
ISCJB	I	20 04 32 29.1–1.4	35.91N–.07	29.15E–.08	5–9			¶16358242
ISK	I	20 04 32 29.1	35.94N	29.09E	8	2.9		
CSEM	I	20 04 32 29.5–.65	35.91N	29.19E	10	3.0		
DDA	I	20 04 32 31.6	36.16N	29.11E	7	3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=9.8km az=140.2.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=6.6km az=165.0.
DDA Event type ke.

ISC	**I**	**21 17 13 45.6–1.7**	**35.31N–.07**	**28.53E–.03**	**9–16**		**56**	**1-4**
ISK	I	21 17 13 46.0	35.16N	28.49E	74	3.4		¶16358304
DDA	I	21 17 13 47.7	35.43N	28.50E	21	3.0		
CSEM	I	21 17 13 48.3–.41	35.23N	28.52E	30	2.9		
ATH	I	21 17 13 48.5	35.40N	28.57E	31–12	2.9		

ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=6.1km az=177.0.
ATH Error ellipse: s-maj=3.8km s-min=2.4km az=-1.0.

ISC	**I**	**21 17 27 29.0–1.3**	**35.97N–.03**	**30.85E–.02**	**4–10**		**130**	**1-6**
NIC	I	21 17 27 26.8–.10	36.67N	31.10E	16	4.1b,3.7L		¶15960469
NSSC	I	21 17 27 28.0–1.4	35.21N	31.70E	336–69	2.6L,3.7L		
ISCJB	I	21 17 27 29.7–.87	35.97N–.03	30.83E–.03	15–6	2.6L,3.7L		
DDA	I	21 17 27 29.7	36.04N	30.91E	16	3.3,3.7L		
CSEM	I	21 17 27 29.5–.17	35.95N	30.83E	10	3.5L,3.7L		
ISK	I	21 17 27 30.5	35.93N	30.84E	34	3.5L,3.7L		

ISC Event type ke.
NSSC Error ellipse: s-maj=13.4km s-min=67.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=21.6.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.5km az=23.0.

ISC	**I**	**31 11 31 05.2–.71**	**33.29N–.02**	**33.67E–.03**	**54–29**		**116**	**1-5**
ISCJB	I	31 11 31 04.2–.40	33.26N–.02	33.62E–.04	74–17			¶15982710
GRAL	I	31 11 31 04.3–1.2	33.28N	33.62E	10–24	3.5		
NIC	I	31 11 31 05.3–.10	33.36N	33.86E	46	3.5L		
GII	I	31 11 31 05.2–.00	33.24N	33.60E	24	3.3		
CSEM	I	31 11 31 05.4–.19	33.28N	33.61E	40	3.3		
DDA	I	31 11 31 06.4	33.79N	33.87E	8	3.4		
NSSC	I	31 11 31 07.3–.94	33.51N	33.81E	104–54	2.6L		
SGS	I	31 11 31 35.0	30.96N	34.10E	3	2.6L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=2.7km az=160.6.
GRAL Error ellipse: s-maj=3.7km s-min=5.0km az=-1.0.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=2.9km az=69.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=12.4km s-min=22.2km az=-1.0.

ISC	**II**	**01 07 43 11.7–1.7**	**33.98N–.06**	**25.63E–.05**	**31–12**	**3.5b**	**88**	**1-79**
IDC	II	01 07 43 08.6–1.2	34.08N	25.53E	0	3.8L,3.7		¶16002067
ISCJB	II	01 07 43 10.7–.72	33.92N–.05	25.76E–.04	40–10	3.4b,3.7		
CSEM	II	01 07 43 12.0–.34	34.00N	25.55E	20	3.2L,3.7		
ATH	II	01 07 43 12.3	34.09N	25.49E	27–2	3.1L,3.7		
THE	II	01 07 43 16.1	34.17N	25.48E	25–4	3.2L,3.7		
GII	II	01 07 43 19.9–.00	33.83N	26.45E	1–0	3.3,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=22.4km s-min=19.0km az=40.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.1km az=29.8.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.8km az=41.0.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.9km az=335.0. Analyst: a.plessa ML
Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=5.4km s-min=0.7km az=173.0.
GII Event type ke.

ISC	**II**	**04 21 27 32.9–.57**	**35.96N–.04**	**30.40E–.02**	**58–6**	**3.5b**	**119**	**1-56**
DDA	II	04 21 27 30.9	36.01N	30.59E	34	3.4		¶16397617
ISK	II	04 21 27 31.9	36.03N	30.41E	21	3.5L		
ISCJB	II	04 21 27 32.1–.40	35.96N–.03	30.42E–.03	71–5	3.6b		
CSEM	II	04 21 27 32.5–.29	36.05N	30.39E	15	3.4		
IDC	II	04 21 27 32.2–1.5	36.00N	30.61E	49–17	3.6,3.5		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=6.6.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.9km az=11.0.
IDC Error ellipse: s-maj=14.9km s-min=12.0km az=93.0.

ISC	**II**	**13 18 32 40.4–1.1**	**35.30N–.04**	**28.61E–.03**	**36**		**61**	**1-8**
DDA	II	13 18 32 37.5	35.24N	28.45E	28	3.1		¶600896462
ISCJB	II	13 18 32 39.1–.39	35.25N–.03	28.64E–.04	36	3.1		
CSEM	II	13 18 32 40.4–.24	35.32N	28.60E	30	2.0L		
HLW	II	13 18 32 40.8	35.24N	28.61E	70–18	4.3		
ATH	II	13 18 32 41.2	35.42N	28.44E	36–6	2.0L		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.3km az=160.5.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=6.1km az=142.0.
ATH Event type ke. Error ellipse: s-maj=8.2km s-min=2.5km az=317.0. Analyst: Diakogianni ML
Amplitudes are expressed in micrometres All distances are expressed in km.

ISC	**II**	**17 01 57 31.1–1.2**	**33.89N–.02**	**33.55E–.04**	**45–39**		**131**	**1-5**
DDA	II	17 01 56 49.0	32.58N	32.89E	10	3.1		¶16029830
ISCJB	II	17 01 57 29.8–.46	33.87N–.02	33.52E–.04	68–13	3.1		
ISK	II	17 01 57 29.5	33.95N	33.47E	20	3.3		
CSEM	II	17 01 57 30.6–.14	33.88N	33.48E	30	3.3		
NIC	II	17 01 57 30.9–.20	33.86N	33.48E	33	3.0L		
GII	II	17 01 57 32.5–.11	33.84N	33.46E	32	2.3		
NSSC	II	17 01 57 35.3–1.3	34.11N	33.88E	38–999	1.9L,1.1		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=2.8km az=163.1.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.2km az=73.0.
GII Event type ke.
NSSC Error ellipse: s-maj=3.8km s-min=13.2km az=-1.0.

ISC	**II**	**20 22 32 38.5–2.2**	**35.50N–.05**	**28.18E–.03**	**13–15**		**54**	**1-3**
ISK	II	20 22 32 35.2	35.34N	28.07E	6	3.2		¶16494681
ATH	II	20 22 32 37.7	35.29N	28.23E	32–8	2.7L		
CSEM	II	20 22 32 38.7–.45	35.46N	28.15E	15	2.7L		
DDA	II	20 22 32 38.5	35.43N	28.32E	31	2.9		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=9.3km s-min=1.3km az=133.0. Analyst: Koutrakis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=5.1km az=153.0.
DDA Event type ke.

ISC	**III**	**02 07 50 32.2–1.0**	**33.87N–.02**	**33.95E–.02**	**31–9**	**3.6b**	**304**	**1-69**
ISK	III	02 07 50 27.9	33.67N	34.07E	37	3.8L		¶16176471
IDC	III	02 07 50 28.5–1.2	33.95N	33.85E	0	3.9,3.9		
CSEM	III	02 07 50 32.1–.10	33.87N	33.97E	20	3.8L,3.9		
NIC	III	02 07 50 33.0–.10	33.94N	33.99E	13	4.1b,3.8L		
GRAL	III	02 07 50 33.1–1.2	33.92N	34.04E	17–7	3.8,3.8L		
GII	III	02 07 50 34.9–.11	33.80N	33.88E	32	3.5,3.8L		
DDA	III	02 07 50 34.6	34.13N	34.01E	113	3.5,3.8L		
NSSC	III	02 07 50 34.0–1.2	33.94N	33.97E	38–999	3.0L,1.9		
HLW	III	02 07 50 36.1	33.72N	33.87E	30–13	3.5,3.5L		

ISC Event type ke.
IDC Error ellipse: s-maj=27.7km s-min=15.3km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=51.0.
GRAL Error ellipse: s-maj=5.2km s-min=6.5km az=-1.0.
GII Event type ke.
NSSC Error ellipse: s-maj=2.7km s-min=10.9km az=-1.0.

ISC	**III**	**11 17 39 56.1–3.5**	**35.8N–.20**	**29.43E–.07**	**12–11**		**17**	**0-1**

CSEM III 11 17 39 56.5 35.89N 29.31E 7 2.9 ¶601582372
DDA III 11 17 39 56.5 35.89N 29.31E 7 2.9
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 22 40 44.7–.87 35.18N–.03 28.49E–.03 62–22 303 1-11
ISCJB III 14 22 40 43.9–.19 35.20N–.02 28.48E–.02 84–8 ¶16314744
ISK III 14 22 40 44.3 35.19N 28.37E 34 3.6
ATH III 14 22 40 45.2 35.31N 28.42E 40–2 2.8L
CSEM III 14 22 40 45.6–.08 35.21N 28.48E 60 2.8L
DDA III 14 22 40 45.4 35.37N 28.36E 42 2.8L
THE III 14 22 40 47.1 35.30N 28.47E 62–3 3.1L
NIC III 14 22 40 49.4–.20 35.12N 28.90E 16 4.2b,3.7L
GII III 14 22 40 50.6–.00 34.91N 28.86E 30–1 3.0,3.7L
HLW III 14 22 40 52.5 34.78N 28.71E 31–17 3.5,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.2km az=3.5.
ATH Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=48.0. Analyst: M.Ziazia ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.8km az=25.0.
THE Event type ke. Error ellipse: s-maj=4.0km s-min=0.7km az=4.0.
GII Event type ke.
ISC III 17 19 25 01.5–1.2 35.46N–.04 29.50E–.03 63–16 103 1-8
DDA III 17 19 24 55.8 35.30N 29.50E 15 ¶16495386
ISCJB III 17 19 25 00.6–.37 35.43N–.03 29.48E–.03 66–12
ISK III 17 19 25 00.4 35.44N 29.46E 32 3.3
CSEM III 17 19 25 01.6–.15 35.44N 29.49E 30 2.5L
ATH III 17 19 25 02.2 35.53N 29.39E 44–12 2.5L
HLW III 17 19 25 09.9 34.65N 29.40E 29–10 3.2,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.5km az=120.0.
ATH Event type ke. Error ellipse: s-maj=15.8km s-min=1.2km az=92.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 18 16 46 56.6–1.7 35.39N–.06 28.50E–.04 32–14 54 1-3
ISK III 18 16 46 53.9 35.52N 28.26E 5 3.4 ¶16495422
CSEM III 18 16 46 54.4–.39 35.39N 28.50E 10 2.5L
ATH III 18 16 46 54.8 35.35N 28.52E 40–4 2.1L
DDA III 18 16 47 06.0 36.33N 28.68E 7 2.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=4.7km az=154.0.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.3km az=335.0. Analyst: Koutrakis ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 20 23 39 14.6–1.5 35.41N–.03 29.54E–.03 24–13 3.3b 160 1-33
IDC III 20 23 39 11.4–1.1 35.52N 29.66E 0 3.6,3.5 ¶16479860
ISK III 20 23 39 14.8 35.38N 29.51E 32 3.9,3.5
HLW III 20 23 39 15.5 35.17N 29.62E 2–5 3.0,2.8L
CSEM III 20 23 39 16.2–.13 35.39N 29.57E 40 2.9L,2.8L
ATH III 20 23 39 18.5 35.77N 29.15E 27–1 2.8L,2.8L
DDA III 20 23 39 23.4 36.14N 29.35E 74 2.8L,2.8L
NSSC III 20 23 39 29.7–1.4 35.39N 31.21E 5–82 2.2L,2.8L
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=18.1km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=12.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=8.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
NSSC Error ellipse: s-maj=10.9km s-min=84.3km az=-1.0.
ISC III 24 23 30 56.5–2.3 35.99N–.10 29.02E–.04 9–12 33 1-2
CSEM III 24 23 30 56.4–.55 35.95N 29.01E 12 3.0 ¶16495648
DDA III 24 23 30 57.6 36.05N 29.09E 7 3.0
ISK III 24 23 30 57.7 36.07N 29.03E 21 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=5.4km az=9.0.
ISC III 30 01 13 09.6–.84 34.56N–.03 27.92E–.03 48 3.6b 173 1-42
IDC III 30 01 13 05.7–1.2 34.74N 27.92E 0 3.6,3.6 ¶16391168
ISCJB III 30 01 13 07.7–.28 34.53N–.02 27.95E–.02 48 4.1s,3.6b
CSEM III 30 01 13 09.7–.17 34.59N 27.89E 40 2.8L,3.6b
HLW III 30 01 13 10.2 34.42N 28.13E 31–14 3.5,3.4L
ISK III 30 01 13 11.1 34.65N 28.18E 33 3.5,3.4L
THE III 30 01 13 11.8 34.70N 27.80E 50–11 2.8L,3.4L
DDA III 30 01 13 13.2 35.34N 27.96E 4 2.8L,3.4L
NIC III 30 01 13 14.7–.10 34.83N 28.37E 41 4.1b,3.7L
GII III 30 01 13 15.1–.12 34.23N 28.22E 32–0 3.4,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=25.3km s-min=17.0km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=22.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=25.0.
THE Event type ke. Error ellipse: s-maj=11.9km s-min=1.6km az=343.0.
GII Event type ke.
ISC III 30 09 09 05.5–.90 35.96N–.03 30.41E–.02 59–9 3.7b 177 1-78
NIC III 30 09 08 60.0–.30 36.52N 30.30E 25 4.1b,3.8L ¶16391430
DDA III 30 09 09 02.3 35.81N 30.51E 53 4.1b,3.8L
ATH III 30 09 09 03.6 36.06N 30.44E 64–3 3.3L,3.8L
ISK III 30 09 09 03.9 36.07N 30.46E 19 3.4L,3.8L
IDC III 30 09 09 04.3–1.1 35.95N 30.49E 50–15 3.8,3.7
ISCJB III 30 09 09 04.3–.27 35.96N–.03 30.42E–.02 70–5 3.7b,3.7
CSEM III 30 09 09 04.5–.11 35.99N 30.43E 20 3.3L,3.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=330.0. Analyst: Ch. Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.
IDC Error ellipse: s-maj=13.3km s-min=10.4km az=169.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.9km az=2.2.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.2km az=9.0.
ISC IV 04 16 46 35.2–1.4 35.21N–.06 30.98E–.04 45 43 1-4
ISK IV 04 16 46 29.0 35.12N 30.96E 5 3.6 ¶16408812
CSEM IV 04 16 46 32.6–.36 35.21N 30.99E 10 3.3
NIC IV 04 16 46 33.6–.10 35.63N 31.08E 16 3.3L
ISCJB IV 04 16 46 34.2–.72 35.25N–.06 30.97E–.05 45 3.3L
DDA IV 04 16 47 35.6 35.62N 31.19E 12 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.7km s-min=5.4km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.0km az=17.2.
ISC IV 07 06 15 36.7–1.5 35.94N–.05 29.99E–.03 19–3 62 0-4
DDA IV 07 06 15 34.9 35.96N 30.18E 9 3.2 ¶16648239
ISK IV 07 06 15 35.4 35.91N 29.96E 16 3.1
ISCJB IV 07 06 15 36.6–1.0 35.90N–.05 30.00E–.04 28–6 3.1
CSEM IV 07 06 15 36.7–.34 35.92N 29.99E 20 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.1km az=179.6.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.8km az=179.0.
ISC IV 15 17 40 17.5–1.1 35.82N–.03 29.80E–.02 14–7 3.7b 275 0-78
IDC IV 15 17 40 15.9–.81 36.00N 29.89E 0 3.8,3.7 ¶16596703
DDA IV 15 17 40 15.8 35.78N 29.79E 20 3.5,3.7
THE IV 15 17 40 16.7 35.78N 29.74E 0–3 4.0L,3.7
HLW IV 15 17 40 17.2 36.13N 29.88E 33–16 3.1L,3.7
CSEM IV 15 17 40 17.9–.11 35.85N 29.80E 5 4.0L,3.7
ISCJB IV 15 17 40 18.0–.49 35.79N–.02 29.80E–.02 21–4 3.6b,3.7
ISK IV 15 17 40 19.7 35.87N 29.80E 33 3.5L,3.7
GII IV 15 17 40 22.6–.00 35.78N 29.93E 30 3.4,3.7
NIC IV 15 17 40 24.9–.10 36.25N 30.34E 25 4.1b,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=18.9km s-min=14.0km az=1.0.
THE Event type ke. Error ellipse: s-maj=8.6km s-min=1.8km az=126.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=55.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=144.6.
GII Event type ke.
ISC IV 16 13 12 05.5–2.1 35.77N–.08 29.75E–.05 4–12 54 0-3
CSEM IV 16 13 12 05.6–.46 35.76N 29.72E 2 3.1L ¶16648830
ISK IV 16 13 12 05.8 35.77N 29.67E 9 3.1
DDA IV 16 13 12 25.2 36.28N 29.64E 5 3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=6.3km az=164.0.

ISC IV 19 11 58 03.5–2.5 35.9N–.10 29.90E–.05 4–10 53 0-3
CSEM IV 19 11 58 01.4–.68 35.84N 29.95E 2 3.0 ¶16648987
ISK IV 19 11 58 04.4 35.95N 30.01E 32 2.9L
DDA IV 19 11 58 13.6 35.98N 29.77E 3 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.9km s-min=8.1km az=161.0.
ISC IV 24 00 28 15.5–1.4 33.78N–.02 32.10E–.03 15–10 228 1-7
ISK IV 24 00 28 16.2 33.83N 32.06E 9 3.3L ¶16459877
NIC IV 24 00 28 17.1–.30 33.82N 31.99E 15 4.1b,3.7L
DDA IV 24 00 28 17.9 34.12N 31.99E 8 3.3,3.7L
CSEM IV 24 00 28 17.9–.10 33.76N 32.15E 20 3.7L,3.7L
NSSC IV 24 00 28 17.4–.95 33.93N 32.33E 0–18 2.7L,3.7L
HLW IV 24 00 28 18.6 33.79N 32.03E 32–27 3.8,3.0L
GII IV 24 00 28 20.0–.00 33.78N 32.14E 31 3.0,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=79.0.
NSSC Error ellipse: s-maj=5.4km s-min=32.9km az=-1.0.
GII Event type ke.
ISC IV 26 20 14 06.9–1.8 35.91N–.06 28.26E–.05 0–13 29 1-2
CSEM IV 26 20 14 07.9–.54 35.93N 28.23E 2 2.7 ¶16649415
ISK IV 26 20 14 07.1 35.88N 28.26E 9 2.7
DDA IV 26 20 14 35.7 35.98N 28.24E 12 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=6.9km az=148.0.
ISC IV 27 19 35 08.1–1.1 34.45N–.04 28.14E–.04 48 106 1-8
ISK IV 27 19 35 05.8 34.39N 28.06E 26 4.2 ¶16649464
ISCJB IV 27 19 35 07.5–.32 34.45N–.02 28.20E–.03 48 4.2
CSEM IV 27 19 35 09.1–.17 34.48N 28.09E 40 4.2
DDA IV 27 19 35 09.5 35.05N 28.47E 5 3.2
GII IV 27 19 35 18.6–.23 34.23N 30.31E 200 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=164.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=79.0.
GII Event type ke.
ISC IV 29 21 49 28.8–1.7 35.72N–.08 30.01E–.03 15–10 58 1-4
DDA IV 29 21 49 28.1 35.73N 30.01E 14 3.3L ¶16649587
ISK IV 29 21 49 30.9 35.92N 30.04E 7 3.8
CSEM IV 29 21 49 31.8–.63 35.95N 30.02E 2 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.4km s-min=5.5km az=12.0.
ISC V 08 20 40 11.0–1.7 34.71N–.06 28.78E–.03 13–11 172 2-7
CSEM V 08 20 40 10.7–.21 34.37N 28.78E 20 3.5 ¶16882028
ATH V 08 20 40 11.8 34.66N 28.67E 23–7 2.9L
THE V 08 20 40 14.6 34.66N 28.64E 8–6 3.0L
DDA V 08 20 40 15.8 34.98N 28.71E 15 3.5
HLW V 08 20 40 18.2 33.68N 28.73E 30–26 3.2L,3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.4km az=157.0.
ATH Event type ke. Error ellipse: s-maj=8.9km s-min=1.8km az=143.0.
THE Event type ke. Error ellipse: s-maj=9.3km s-min=1.6km az=145.0.
ISK V 17 04 24 41.8 35.70N 28.54E 6 2.5 ¶16853633
ISC V 30 16 12 24.9–1.8 35.80N–.08 29.34E–.04 30–13 48 0-3
CSEM V 30 16 12 21.7–.68 35.69N 29.36E 5 3.3 ¶16855846
ISK V 30 16 12 23.6 35.82N 29.35E 20 3.2
DDA V 30 16 13 00.9 35.97N 29.30E 1 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=8.2km az=144.0.
DDA Event type ke.
ISC VI 03 04 14 18.9–1.5 35.79N–.05 28.84E–.03 7–12 60 1-3
DDA VI 03 04 14 14.7 35.53N 28.73E 13 3.3 ¶17555387
ISK VI 03 04 14 16.1 35.71N 28.86E 5 3.0
ISCJB VI 03 04 14 17.8–.99 35.71N–.05 28.83E–.05 4–7 3.0
ATH VI 03 04 14 19.1 35.80N 28.77E 22–3 2.4L
CSEM VI 03 04 14 19.1–.41 35.77N 28.84E 10 2.4L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.6km az=144.4.
ATH Event type ke. Error ellipse: s-maj=4.8km s-min=1.5km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=5.3km az=152.0.
ISC VI 07 10 59 06.9–1.7 34.88N–.06 29.02E–.05 25–14 133 1-8
ATH VI 07 10 59 07.6 34.98N 28.92E 32–4 3.2L ¶17555634
ISK VI 07 10 59 08.4 35.12N 28.95E 7 3.1L
CSEM VI 07 10 59 08.9–.49 34.96N 28.95E 20 3.2L
DDA VI 07 10 59 31.5 36.76N 28.79E 7 3.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.5km s-min=1.5km az=139.0.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=4.2km az=153.0.
ISC VI 07 11 01 11.2–1.2 34.78N–.04 29.08E–.03 92–21 117 1-8
ISCJB VI 07 11 01 10.8–.39 34.79N–.04 29.10E–.02 94–14 ¶16575897
CSEM VI 07 11 01 12.7–.18 34.80N 29.10E 60 3.7L
DDA VI 07 11 01 13.5 34.99N 28.90E 48 3.6L
THE VI 07 11 01 14.4 34.86N 29.12E 85–7 3.7L
NIC VI 07 11 01 14.8–.20 34.88N 29.32E 61 4.0b,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=3.8.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=6.0.
THE Event type ke. Error ellipse: s-maj=7.4km s-min=1.5km az=22.0.
ISC VI 09 08 14 25.1–.81 34.79N–.03 29.12E–.03 25–6 4.3b,3.2s 697 1-115
NSSC VI 09 08 14 18.9–1.1 34.81N 28.88E 28–146 3.5L,3.2s ¶16580443
IDC VI 09 08 14 21.6–.57 34.82N 29.13E 0 4.3,4.2L
ISCJB VI 09 08 14 23.9–.19 34.69N–.02 29.13E–.01 40–3 4.3b,3.3s
MOS VI 09 08 14 23.9–1.2 34.76N 29.08E 29 4.6b,3.3s
ISK VI 09 08 14 24.3 34.78N 29.08E 25 3.9L,3.3s
NEIC VI 09 08 14 25.6–1.5 34.79N 29.10E 27–12 4.1L,4.0b
ATH VI 09 08 14 25.2 34.98N 28.90E 19–3 4.1L,4.0b
CSEM VI 09 08 14 26.2–.09 34.73N 29.14E 40 4.0b,4.0b
HLW VI 09 08 14 26.8 34.56N 29.14E 22–11 3.9L,3.6
THE VI 09 08 14 27.6 34.83N 29.13E 54–5 4.1L,3.6
NIC VI 09 08 14 29.0–.10 35.00N 29.38E 40 4.3b,4.0L
GII VI 09 08 14 30.4–.00 34.49N 29.44E 30 4.1b,3.5
DDA VI 09 08 14 40.5 36.07N 29.06E 28 3.9L,3.5
ISC Event type ke.
NSSC Error ellipse: s-maj=6.5km s-min=106.2km az=-1.0.
IDC Error ellipse: s-maj=12.2km s-min=11.3km az=127.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=26.4.
MOS Error ellipse: s-maj=6.7km s-min=3.5km az=107.3.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=179.0.
ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.1km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=26.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.0km az=4.0.
GII Event type ke.
ISC VI 09 09 40 24.7–2.0 34.8N–.10 29.03E–.05 37 29 2-4
ISK VI 09 09 40 21.6 34.68N 29.03E 25 3.3 ¶17555729
CSEM VI 09 09 40 22.6–.58 34.82N 29.00E 10 3.0L
ISCJB VI 09 09 40 24.6–1.4 34.86N–.09 29.04E–.07 37 3.0L
DDA VI 09 09 40 32.7 35.66N 28.88E 7 3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.8km s-min=7.0km az=1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.1km s-min=8.0km az=170.9.
ISC VI 09 09 43 05.6–2.7 34.85N–.08 29.21E–.05 6–15 48 1-4
CSEM VI 09 09 43 07.2–.57 34.87N 29.16E 10 3.2 ¶17555730
ISK VI 09 09 43 07.2 34.92N 29.16E 12 3.2
DDA VI 09 09 43 50.3 35.67N 28.88E 10 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=8.7km az=6.0.
ISC VI 09 10 03 05.4–1.4 34.75N–.03 29.07E–.02 2–9 3.9b 368 1-66
HLW VI 09 10 03 07.0 34.97N 29.17E 35–37 3.9L,3.3 ¶16580459
ATH VI 09 10 03 08.9 34.93N 28.88E 16–2 3.6L,3.3
CSEM VI 09 10 03 08.9–.11 34.75N 29.11E 20 3.6L,3.3
DDA VI 09 10 03 09.2 34.90N 28.97E 27 4.1L,3.3

MOS VI 09 10 03 09.7–1.1 34.74N 29.13E 47 4.2b,3.3
IDC VI 09 10 03 10.2–4.6 34.83N 29.16E 30–37 4.1L,3.9
ISK VI 09 10 03 10.4 35.07N 28.90E 8 3.7L,3.9
NEIC VI 09 10 03 10.9–.60 34.81N 29.17E 36–8 4.6b,4.2L
NSSC VI 09 10 03 10.6–1.5 34.69N 29.26E 35–384 3.1L,4.2L
THE VI 09 10 03 12.7 34.89N 29.03E 23–5 3.6L,4.2L
NIC VI 09 10 03 13.1–.10 34.92N 29.35E 40 4.2b,3.9L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=14.0.
MOS Error ellipse: s-maj=8.5km s-min=4.7km az=106.5.
IDC Error ellipse: s-maj=15.7km s-min=12.6km az=14.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=5.6km az=201.0.
NSSC Error ellipse: s-maj=13.0km s-min=279.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=6.3km s-min=1.0km az=137.0.
ISC VI 11 08 19 22.9–3.5 35.1N–.10 28.86E–.07 13–24 44 1-5
ATH VI 11 08 19 21.4 34.99N 28.91E 30–31 2.8L ¶600917782
DDA VI 11 08 19 21.7 35.29N 28.63E 5 3.1
CSEM VI 11 08 19 21.7–.86 35.03N 28.91E 10 3.1
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=3.7km az=0.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=22.6km s-min=6.4km az=148.0.
ISC VI 12 01 19 36.2–2.1 34.84N–.06 28.99E–.03 14–14 124 1-7
CSEM VI 12 01 19 38.0–.36 34.96N 29.01E 10 3.4L ¶17555865
DDA VI 12 01 19 39.4 35.13N 28.84E 16 3.4L
ISK VI 12 01 19 39.4 35.00N 28.99E 72 3.3
ATH VI 12 01 19 41.4 34.91N 28.66E 40–31 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=3.8km az=156.0.
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=2.4km az=0.0.
ISC VI 12 02 32 19.8–1.6 34.72N–.04 29.08E–.04 24–15 129 2-27
IDC VI 12 02 32 17.0–1.8 34.87N 29.08E 0 3.4,3.2 ¶17205811
DDA VI 12 02 32 22.5 34.97N 29.05E 27 3.6L,3.2
CSEM VI 12 02 32 22.1–.17 34.73N 29.06E 40 3.6L,3.2
HLW VI 12 02 32 24.2 34.49N 29.12E 32–21 3.8,2.8L
ISK VI 12 02 32 24.2 35.05N 29.02E 59 3.5,2.8L
ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=24.2km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=80.0.
ISC VI 12 02 43 43.0–.65 34.72N–.04 29.07E–.03 35 3.4b,2.9s 198 2-43
IDC VI 12 02 43 39.9–1.2 34.89N 29.18E 0 3.8,3.8L ¶16730143
ISCJB VI 12 02 43 41.9–.24 34.68N–.02 29.04E–.03 33 3.5b,2.8s
THE VI 12 02 43 42.8 34.74N 29.08E 7–28 3.5b,2.8s
CSEM VI 12 02 43 42.6–.12 34.71N 29.03E 20 3.7L,2.8s
ISK VI 12 02 43 42.6 34.86N 29.03E 20 3.5L,2.8s
HLW VI 12 02 43 45.6 34.52N 29.10E 45–27 3.9,3.5L
DDA VI 12 02 43 45.5 35.09N 28.93E 25 3.7L,3.5L
NIC VI 12 02 43 48.8–.40 34.68N 29.50E 56 4.1b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=24.3km s-min=15.0km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=136.8.
THE Event type ke. Error ellipse: s-maj=28.3km s-min=1.6km az=177.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=61.0.
ISC VI 12 02 55 35.1–.87 34.76N–.05 29.08E–.04 37 3.3b 115 2-41
IDC VI 12 02 55 30.8–1.3 34.82N 29.21E 0 3.8,3.8L ¶16593408
ISCJB VI 12 02 55 32.7–.46 34.68N–.04 29.11E–.03 37 3.2b,3.8L
CSEM VI 12 02 55 34.9–.39 34.79N 29.00E 30 3.5L,3.8L
DDA VI 12 02 55 34.9 34.96N 28.99E 30 3.5L,3.8L
ISK VI 12 02 55 34.1 34.82N 29.02E 33 3.4L,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=16.2km az=17.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.5km az=18.3.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=4.1km az=6.0.
ISC VI 13 02 49 56.6–2.3 34.94N–.09 29.08E–.04 4–11 50 1-4
CSEM VI 13 02 49 58.2–.58 34.91N 29.04E 10 3.2 ¶17555906
ISK VI 13 02 49 58.5 35.05N 28.90E 2 3.2
DDA VI 13 02 50 52.8 36.30N 29.20E 10 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=6.9km az=175.0.
ISC VI 13 21 04 49.9–.97 34.79N–.04 29.14E–.04 10 66 1-7
ISCJB VI 13 21 04 49.5–.53 34.69N–.03 29.15E–.05 10 ¶17555922
CSEM VI 13 21 04 52.4–.29 34.76N 29.08E 20 2.5L
ISK VI 13 21 04 52.7 34.97N 29.09E 13 2.5L
GII VI 13 21 04 59.0–.00 34.49N 29.44E 30–0 2.1
DDA VI 13 21 05 22.1 35.55N 28.82E 16 3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.6km az=145.7.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=4.4km az=60.0.
GII Event type ke.
DDA Event type ke.
ISC VI 14 09 54 30.5–1.4 35.82N–.05 30.97E–.02 15–10 76 1-6
ISK VI 14 09 54 28.1 35.84N 31.06E 12 3.5 ¶17555937
DDA VI 14 09 54 30.2 35.84N 30.88E 23 3.4
CSEM VI 14 09 54 30.5–.52 35.92N 30.95E 10 3.5
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=5.8km az=179.0.
ISC VI 14 18 45 41.2–1.9 35.27N–.06 30.89E–.04 3–14 31 1-3
CSEM VI 14 18 45 41.4–.56 35.17N 30.88E 2 3.4L ¶16598338
NIC VI 14 18 45 41.8–.10 35.35N 30.78E 16 3.4L
DDA VI 14 18 45 41.6 35.32N 30.93E 7 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.7km s-min=6.6km az=36.0.
ISC VI 14 19 20 48.2–.99 34.73N–.04 29.10E–.03 67–27 229 1-15
ATH VI 14 19 20 46.8 34.88N 29.01E 21–6 3.3L ¶16883037
ISK VI 14 19 20 47.3 34.83N 29.06E 17 3.2L
DDA VI 14 19 20 47.9 34.94N 28.91E 23 3.9
ISCJB VI 14 19 20 47.3–.23 34.71N–.02 29.08E–.02 89–10 3.9
CSEM VI 14 19 20 48.3–.14 34.71N 29.09E 30 3.3L
THE VI 14 19 20 50.6 34.82N 29.09E 50–5 3.2L
GII VI 14 19 20 53.6–.00 34.55N 29.46E 30 2.4
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=9.4km s-min=0.9km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=14.1.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=13.0.
THE Event type ke. Error ellipse: s-maj=5.2km s-min=1.0km az=2.0.
GII Event type ke.
ISC VI 14 19 39 57.2–1.3 34.81N–.04 28.98E–.02 9–10 212 1-8
DDA VI 14 19 39 58.5 34.91N 28.87E 6 3.6 ¶16883040
ISK VI 14 19 39 59.1 34.94N 28.98E 3 3.6
ATH VI 14 19 40 00.5 34.90N 28.98E 28–4 3.2L
CSEM VI 14 19 40 01.2–.11 34.73N 29.05E 30 3.2L
THE VI 14 19 40 02.5 34.77N 29.10E 28–39 3.3L
HLW VI 14 19 40 04.6 34.57N 29.03E 35–30 3.3,3.2L
GII VI 14 19 40 07.5–.46 34.31N 29.38E 45 3.2,3.2L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=6.0km s-min=1.2km az=147.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=33.0.
THE Event type ke. Error ellipse: s-maj=39.7km s-min=1.1km az=159.0.
GII Event type ke.
ISC VI 14 21 55 00.2–2.5 34.72N–.03 29.10E–.02 16–16 4.0b 607 1-79
DDA VI 14 21 54 56.3 34.38N 28.93E 72 3.9 ¶16598343
IDC VI 14 21 54 58.6–.66 34.81N 29.01E 0 4.0L,3.9
JSO VI 14 21 54 59.7–.78 34.58N 28.78E 31–398 4.2,3.9
NEIC VI 14 21 55 01.2–2.4 34.77N 29.01E 18–16 4.1b,3.9
ATH VI 14 21 55 02.6 34.93N 28.96E 33–4 3.7L,3.9
CSEM VI 14 21 55 02.2–.07 34.73N 29.08E 30 4.5b,3.9
ISK VI 14 21 55 02.2 35.00N 28.97E 13 3.9L,3.9
HLW VI 14 21 55 03.6 34.72N 29.12E 33–38 4.1,3.7L
THE VI 14 21 55 03.5 34.74N 29.09E 27–14 3.8L,3.7L
NIC VI 14 21 55 06.0–.00 34.93N 29.40E 38 4.4b,4.1L
GII VI 14 21 55 07.1–.17 34.23N 29.41E 10 3.2,4.1L
ISC Event type ke.
IDC Error ellipse: s-maj=13.5km s-min=12.4km az=3.0.
JSO Error ellipse: s-maj=151.4km s-min=348.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.2km az=181.0.
ATH Event type ke. Error ellipse: s-maj=5.3km s-min=1.1km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=32.0.
THE Event type ke. Error ellipse: s-maj=14.0km s-min=1.0km az=151.0.
GII Event type ke.
ISC VI 14 22 17 48.9–1.7 34.87N–.06 28.96E–.04 12–10 54 1-5
ATH VI 14 22 17 49.6 34.88N 28.99E 20–8 2.6L ¶600917875
ISCJB VI 14 22 17 50.4–1.9 34.80N–.08 29.04E–.05 24–22 2.6L
CSEM VI 14 22 17 50.5–.55 34.82N 29.03E 15 2.6L
DDA VI 14 22 18 07.0 34.77N 29.05E 15 3.3
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=11.5km s-min=1.0km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=13.8km s-min=4.8km az=155.4.
CSEM Event type ke. Error ellipse: s-maj=14.1km s-min=5.5km az=154.0.
DDA Event type ke.
ISC VI 14 23 14 23.9–1.8 34.81N–.03 29.11E–.03 25–13 4.5b,3.6s 1007 1-94
IDC VI 14 23 14 20.3–.63 34.82N 29.09E 0 4.3,4.3 ¶16598346
JSO VI 14 23 14 22.0–.64 34.73N 29.24E 229–203 4.3,4.3
ISCJB VI 14 23 14 23.1–.17 34.73N–.01 29.07E–.01 41–2 4.5b,3.6s
DDA VI 14 23 14 23.9 34.96N 28.87E 22 4.6L,3.6s
CSEM VI 14 23 14 23.4–.07 34.74N 29.08E 20 4.6b,3.6s
ATH VI 14 23 14 23.7 34.88N 29.00E 30–3 4.2L,3.6s
ISK VI 14 23 14 24.9 34.92N 29.04E 26 4.2L,3.6s
THE VI 14 23 14 26.1 34.79N 29.08E 24–3 4.5L,3.6s
NEIC VI 14 23 14 26.2–.37 34.84N 29.07E 45–3 4.3b,3.6s
HLW VI 14 23 14 26.8 34.66N 29.13E 54–36 4.1,3.9L
NSSC VI 14 23 14 27.8–1.3 34.84N 29.73E 0–111 3.7L,3.9L
NIC VI 14 23 14 28.6–.20 35.08N 29.44E 75 4.6b,4.4L
GII VI 14 23 14 29.9–.43 34.35N 29.38E 44 4.1b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=13.3km s-min=11.6km az=167.0.
JSO Error ellipse: s-maj=21.7km s-min=86.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=29.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=33.0.
ATH Event type ke. Error ellipse: s-maj=4.6km s-min=1.0km az=145.0.
THE Event type ke. Error ellipse: s-maj=3.7km s-min=0.8km az=149.0.
NEIC Event type se. Error ellipse: s-maj=4.5km s-min=3.1km az=175.0.
NSSC Error ellipse: s-maj=9.5km s-min=202.8km az=-1.0.
GII Event type ke.
ISC VI 14 23 36 09.3–1.2 34.75N–.04 29.12E–.03 36–3 3.5b 299 1-41
IDC VI 14 23 36 04.9–1.1 34.89N 29.19E 0 3.7,3.6L ¶16730510
ISK VI 14 23 36 07.3 34.69N 29.04E 21 3.3L,3.6L
ISCJB VI 14 23 36 08.0–.23 34.65N–.03 29.11E–.02 62–8 3.3b,3.6L
CSEM VI 14 23 36 10.1–.10 34.71N 29.10E 40 3.2L,3.6L
ATH VI 14 23 36 10.2 35.01N 28.84E 17–1 3.2L,3.6L
NSSC VI 14 23 36 10.7–1.5 34.93N 29.50E 0–184 2.7L,3.6L
GII VI 14 23 36 12.2–.00 34.57N 29.28E 30–2 3.0,3.6L
THE VI 14 23 36 12.0 34.84N 29.09E 51–5 3.4L,3.6L
NIC VI 14 23 36 13.8–.10 34.84N 29.44E 35 4.1b,3.7L
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=16.9km az=8.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=1.9km az=22.5.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=1.9km az=22.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=344.0.
NSSC Error ellipse: s-maj=18.1km s-min=338.3km az=-1.0.
GII Event type ke.
THE Event type ke. Error ellipse: s-maj=5.9km s-min=1.1km az=11.0.
ISC VI 14 23 44 53.4–1.2 34.74N–.05 29.09E–.02 49–45 181 1-8
ISK VI 14 23 44 51.8 34.72N 29.05E 32 3.2L ¶16598347
ISCJB VI 14 23 44 52.1–.41 34.75N–.04 29.08E–.02 78–13 3.2L
ATH VI 14 23 44 52.2 34.94N 28.92E 19–2 3.1L
CSEM VI 14 23 44 53.4–.25 34.72N 29.10E 40 3.1L
NIC VI 14 23 44 55.3–.20 35.01N 29.33E 50 4.2b,3.8L
DDA VI 14 23 45 08.7 34.56N 28.96E 51 3.7,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=2.8km az=175.1.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=0.9km az=76.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.1km az=174.0.
DDA Event type ke.
ISC VI 15 01 01 04.0–2.4 34.80N–.04 29.11E–.02 31–21 168 1-6
ATH VI 15 01 01 02.7 34.94N 29.02E 24–9 2.7L ¶16598348
ISK VI 15 01 01 04.7 34.92N 29.11E 28 3.4
CSEM VI 15 01 01 04.8–.19 34.81N 29.07E 40 2.7L
THE VI 15 01 01 05.3 34.85N 29.15E 55–4 2.9L
NIC VI 15 01 01 07.0–.20 35.14N 29.35E 34 4.0b,3.6L
DDA VI 15 01 01 18.2 36.01N 29.09E 30 3.1L,3.6L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=12.0km s-min=1.5km az=133.0.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=2.8km az=176.0.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=0.9km az=2.0.
ISC VI 15 01 21 23.0–1.3 34.93N–.04 29.01E–.02 14–8 214 1-33
IDC VI 15 01 21 20.9–1.2 34.78N 29.12E 0 3.5L,3.4 ¶16730518
ISK VI 15 01 21 24.3 34.76N 29.05E 30 3.3L,3.4
ATH VI 15 01 21 24.7 35.00N 28.94E 21–3 2.9L,3.4
CSEM VI 15 01 21 25.1–.11 34.74N 29.10E 30 2.9L,3.4
DDA VI 15 01 21 25.2 35.08N 28.91E 17 3.6L,3.4
HLW VI 15 01 21 26.2 34.76N 29.16E 33–31 3.5,3.4
THE VI 15 01 21 26.7 34.83N 29.13E 35–6 3.3L,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=24.7km s-min=19.0km az=15.0.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.1km az=67.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=24.0.
THE Event type ke. Error ellipse: s-maj=7.0km s-min=1.1km az=8.0.
ISC VI 15 21 59 22.1–2.3 34.88N–.07 29.03E–.04 3–15 74 1-5
ISK VI 15 21 59 20.2 34.64N 29.12E 14 2.9L ¶17555980
ISCJB VI 15 21 59 21.8–1.4 34.73N–.07 29.10E–.04 14–12 2.9L
ATH VI 15 21 59 22.9 34.90N 28.95E 16–5 2.6L
DDA VI 15 21 59 22.9 34.91N 28.93E 21 3.5
CSEM VI 15 21 59 23.9–.32 34.78N 29.09E 20 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=4.5km az=162.5.
ATH Event type ke. Error ellipse: s-maj=6.9km s-min=1.5km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=3.8km az=161.0.
ISC VI 18 01 57 32.8–3.6 34.80N–.06 29.10E–.04 15–25 70 1-7
ISK VI 18 01 57 29.1 34.64N 28.98E 18 3.2L ¶17556052
ISCJB VI 18 01 57 31.4–1.3 34.76N–.04 29.11E–.04 15–12 3.2L
ATH VI 18 01 57 32.4 34.93N 29.01E 18–5 2.1L
CSEM VI 18 01 57 32.2–.34 34.80N 29.10E 10 3.1
DDA VI 18 01 57 37.3 35.13N 29.63E 13 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.3km az=163.6.
ATH Event type ke. Error ellipse: s-maj=6.2km s-min=1.5km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=4.8km az=168.0.
ISC VI 18 21 52 50.9–1.5 34.81N–.07 29.08E–.03 37 80 1-7
ISK VI 18 21 52 45.6 34.61N 29.12E 22 3.5 ¶17556077
ISCJB VI 18 21 52 48.6–.78 34.71N–.05 29.14E–.04 37 3.5
CSEM VI 18 21 52 49.8–.44 34.70N 29.11E 40 2.0L
DDA VI 18 21 52 50.2 34.94N 29.04E 31 3.5L
ATH VI 18 21 52 51.6 35.10N 28.87E 26–14 2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=176.6.
CSEM Event type ke.
ATH Event type ke. Error ellipse: s-maj=15.3km s-min=2.7km az=151.0.
ISC VI 24 16 22 29.8–1.6 34.70N–.04 29.28E–.06 10–12 47 2-6
DDA VI 24 16 22 31.8 34.77N 29.50E 10 3.5 ¶17556262

CSEM VI 24 16 22 32.0–.23 34.69N 29.08E 10 3.5
HLW VI 24 16 22 33.5 34.85N 29.05E 41–10 3.9
ISK VI 24 16 22 37.0 35.04N 29.04E 19 3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=4.3km az=86.0.
ISC VI 24 17 16 34.7–3.0 34.69N–.03 29.06E–.04 17–21 84 2-33
IDC VI 24 17 16 33.0–1.5 34.79N 29.20E 0 3.7b,3.5 **¶17206881**
CSEM VI 24 17 16 37.5–.21 34.71N 28.93E 30 3.5L,3.5
DDA VI 24 17 16 38.2 34.99N 28.86E 29 3.5L,3.5
HLW VI 24 17 16 39.2 34.77N 29.04E 52–7 3.8,3.5
ISK VI 24 17 16 39.0 35.17N 28.95E 5 3.5,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=25.9km s-min=20.7km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.2km az=93.0.
ISC VI 24 17 22 59.0–2.2 34.67N–.03 29.14E–.03 35–5 3.3b 190 2-43
IDC VI 24 17 22 54.5–1.1 34.86N 29.15E 0 3.9L,3.7 **¶16731387**
ATH VI 24 17 22 56.8 34.88N 29.00E 19–10 3.2L,3.7
ISCJB VI 24 17 22 57.7–.25 34.66N–.02 29.09E–.02 51–7 3.4b,3.7
CSEM VI 24 17 22 58.1–.11 34.70N 29.08E 20 3.2L,3.7
ISK VI 24 17 22 58.9 34.78N 29.03E 29 3.7,3.7
HLW VI 24 17 22 59.5 34.80N 29.06E 50–9 3.7,3.7
NIC VI 24 17 23 01.7–.20 35.01N 29.30E 37 4.2b,3.8L
NSSC VI 24 17 23 01.1–2.2 35.50N 29.57E 37–493 2.8L,3.8L
DDA VI 24 17 23 27.6 35.01N 28.82E 35 3.6,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=21.4km s-min=17.6km az=177.0.
ATH Event type ke. Error ellipse: s-maj=15.8km s-min=1.3km az=114.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=18.5.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=14.0.
NSSC Error ellipse: s-maj=52.5km s-min=594.3km az=-1.0.
DDA Event type ke.
ISC VI 24 17 29 26.3–2.9 34.69N–.03 29.11E–.03 17–20 3.5b 173 2-80
ISK VI 24 17 29 25.5 34.76N 28.98E 3 3.9 **¶16731389**
IDC VI 24 17 29 25.2–1.1 34.82N 29.13E 0 3.7,3.7
ATH VI 24 17 29 28.2 34.98N 28.98E 18–4 3.5L,3.7
CSEM VI 24 17 29 28.7–.14 34.72N 29.07E 20 3.5L,3.7
DDA VI 24 17 29 28.3 34.89N 28.93E 26 3.7L,3.7
HLW VI 24 17 29 29.9 34.78N 29.07E 41–8 3.7,3.7
NSSC VI 24 17 29 30.7–1.6 34.79N 29.21E 38–999 3.0L,3.7
NIC VI 24 17 29 33.2–.20 35.00N 29.41E 45 4.3b,3.9L
ISC Event type ke.
IDC Error ellipse: s-maj=22.5km s-min=16.8km az=6.0.
ATH Event type ke. Error ellipse: s-maj=5.5km s-min=1.4km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=20.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=13.2km s-min=40.5km az=-1.0.
DDA VI 24 17 36 20.1 34.83N 29.29E 27 3.1
¶602863439
ISC VI 24 17 52 33.1–3.7 34.8N–.20 29.3E–.20 35 13 1-4
NIC VI 24 17 52 35.3–.00 34.76N 29.43E 25 3.4L **¶17330136**
ISC Event type ke.
ISC VI 30 22 29 41.9–1.9 34.89N–.06 29.14E–.03 13–13 75 1-4
ISCJB VI 30 22 29 42.9–1.3 34.89N–.05 29.11E–.04 21–13 **¶17556651**
CSEM VI 30 22 29 43.8–.33 34.88N 29.11E 20 2.3L
ISK VI 30 22 29 43.7 35.11N 28.96E 5 3.3
ATH VI 30 22 29 44.8 35.02N 29.00E 38–15 2.3L
DDA VI 30 22 29 54.5 34.48N 29.03E 16 3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.0km az=154.5.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=3.7km az=156.0.
ATH Event type ke. Error ellipse: s-maj=15.6km s-min=2.0km az=150.0.
DDA Event type ke.

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ISC I 04 01 29 28.8–.86 34.74N–.03 33.80E–.02 32–7 3.4b 164 0-80
IDC I 04 01 29 25.1–1.1 34.81N 33.75E 0 3.8,3.6 **¶15902948**
ISCJB I 04 01 29 28.5–.25 34.70N–.02 33.79E–.03 48–4 3.6b,3.6
CSEM I 04 01 29 29.3–.13 34.72N 33.79E 30 3.8L,3.6
GII I 04 01 29 29.6–.00 34.64N 33.88E 15 3.1,3.6
NIC I 04 01 29 30.4–.30 34.78N 33.72E 18 4.1b,3.8L
HLW I 04 01 29 30.6 34.69N 33.83E 31–17 3.5,3.8L
NSSC I 04 01 29 31.5–1.2 34.73N 33.94E 37–999 2.9L,3.8L
ISC Event type ke.
IDC Error ellipse: s-maj=27.4km s-min=15.7km az=56.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=137.4.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=34.0.
GII Event type ke.
NSSC Error ellipse: s-maj=4.3km s-min=12.8km az=-1.0.
ISC I 12 12 59 05.5–1.2 34.91N–.03 33.92E–.03 58–7 141 0-5
ISCJB I 12 12 59 04.5–.38 34.88N–.02 33.91E–.03 67–6 **¶15922057**
ISK I 12 12 59 04.6 35.09N 34.01E 14 2.6L
NSSC I 12 12 59 05.7–.96 35.00N 33.95E 37–109 2.7L
CSEM I 12 12 59 05.6–.12 34.92N 33.91E 54–3 3.1L
GII I 12 12 59 06.3–.27 34.69N 33.87E 10 2.8
NIC I 12 12 59 06.1–.20 35.01N 33.85E 55 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=147.1.
NSSC Error ellipse: s-maj=36.8km s-min=65.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=61.0.
GII Event type ke.
ISC I 16 15 35 11.5–1.2 34.99N–.03 33.95E–.02 49–9 124 0-4
DDA I 16 15 35 01.7 34.76N 33.95E 26 3.1 **¶15931536**
ISK I 16 15 35 10.1 34.91N 33.99E 42 3.4
ISCJB I 16 15 35 10.7–.35 35.00N–.02 33.97E–.03 55–10 3.4
NIC I 16 15 35 11.7–.20 35.01N 33.86E 49 3.5L
CSEM I 16 15 35 11.8–.13 34.98N 33.95E 40 3.5L
NSSC I 16 15 35 11.5–1.2 35.02N 33.95E 38–999 2.6L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=42.7.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.8km az=21.0.
NSSC Error ellipse: s-maj=2.9km s-min=12.3km az=-1.0.
ISC I 19 18 11 25.8–1.1 35.11N–.03 31.86E–.03 49–12 170 0-7
NIC I 19 18 11 22.2–.30 35.30N 31.58E 10 3.5L **¶15940669**
DDA I 19 18 11 23.2 35.34N 31.84E 21 3.4
ISCJB I 19 18 11 24.5–.26 35.10N–.02 31.79E–.03 63–7 3.4
ISK I 19 18 11 24.1 35.11N 31.75E 53 3.3L
HLW I 19 18 11 24.4 35.22N 31.69E 31–22 3.9,3.2L
CSEM I 19 18 11 25.6–.12 35.13N 31.78E 30 3.5L,3.2L
NSSC I 19 18 11 30.0–1.2 35.12N 32.18E 38–60 2.6L,2.3
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=175.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=41.0.
NSSC Error ellipse: s-maj=5.7km s-min=45.3km az=-1.0.
ISC I 21 07 25 49.8–.74 35.42N–.03 31.73E–.02 61–8 3.8b 310 1-79
DDA I 21 07 25 46.9 35.68N 31.58E 7 4.0L **¶15948010**
NIC I 21 07 25 48.6–.20 35.62N 31.78E 16 4.2b,3.9L
ISCJB I 21 07 25 48.2–.17 35.44N–.02 31.71E–.02 68–3 3.8b,3.9L
ISK I 21 07 25 48.6 35.48N 31.76E 60 4.1L,3.9L
IDC I 21 07 25 48.8–1.2 35.45N 31.64E 55–13 3.9,3.8
CSEM I 21 07 25 48.4–.08 35.46N 31.70E 20 3.9L,3.8
THE I 21 07 25 50.0 35.48N 31.71E 29–15 4.4L,3.8
NSSC I 21 07 25 51.9–1.8 35.44N 32.05E 106–144 3.5L,1.9
HLW I 21 07 25 52.4 35.19N 31.64E 33–28 3.8L,3.7
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=24.7.
IDC Error ellipse: s-maj=11.4km s-min=8.5km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=32.0.
THE Event type ke. Error ellipse: s-maj=15.6km s-min=0.4km az=285.0.
NSSC Error ellipse: s-maj=7.3km s-min=36.1km az=-1.0.
ISC I 26 19 58 46.1–.47 35.54N–.02 32.52E–.02 108–3 95 0-7
ISCJB I 26 19 58 47.8–.35 35.59N–.03 32.46E–.03 94–5 **¶15970223**
ISK I 26 19 58 48.8 35.75N 32.35E 27 3.4L
NIC I 26 19 58 49.5–.30 35.71N 32.38E 68 3.5L
HLW I 26 19 58 49.1 35.56N 32.97E 33–20 3.7,2.7L
DDA I 26 19 58 49.5 35.57N 32.60E 65 3.3,2.7L
CSEM I 26 19 58 49.0–.20 35.62N 32.49E 87–3 3.5L,2.7L
NSSC I 26 19 58 51.9–1.3 35.56N 32.87E 104–68 2.6L,1.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.8km az=36.1.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.5km az=38.0.
NSSC Error ellipse: s-maj=4.5km s-min=22.1km az=-1.0.
ISC I 26 21 00 10.1–.62 34.35N–.02 34.49E–.02 52–17 69 1-5
ISCJB I 26 21 00 09.3–.51 34.35N–.03 34.50E–.03 49–16 **¶15970224**
GRAL I 26 21 00 09.1–1.1 34.23N 34.44E 14–20 3.0
CSEM I 26 21 00 10.1–.20 34.32N 34.47E 40 3.3L
NSSC I 26 21 00 10.5–1.2 34.34N 34.50E 39–999 2.3L,1.4
NIC I 26 21 00 11.8–.20 34.37N 34.29E 46 3.3L,1.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.3km az=137.4.
GRAL Error ellipse: s-maj=7.7km s-min=7.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.2km az=42.0.
NSSC Error ellipse: s-maj=2.5km s-min=9.8km az=-1.0.
ISC I 27 05 35 42.7–1.5 35.61N–.04 31.66E–.03 11–12 76 1-4
ISK I 27 05 35 42.6 35.62N 31.68E 8 3.6L **¶15970234**
DDA I 27 05 35 45.5 36.08N 31.89E 4 3.3
CSEM I 27 05 35 46.4–.23 35.61N 31.70E 40 3.5L
NIC I 27 05 35 49.9–.20 35.59N 32.14E 54 3.5L
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.8km az=32.0.
ISC II 03 23 33 42.8–1.5 34.61N–.07 32.88E–.03 17–6 60 0-4
ISCJB II 03 23 33 41.6–1.1 34.54N–.05 32.91E–.04 14–4 **¶16002984**
CSEM II 03 23 33 41.4–.39 34.52N 32.89E 5 3.5L
ISK II 03 23 33 41.5 34.55N 32.88E 15 3.3L
DDA II 03 23 33 42.8 34.78N 32.91E 6 3.2
NIC II 03 23 33 42.5–.10 34.63N 32.90E 18 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.6km az=13.7.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.2km az=15.0.
DDA Event type ke.
ISC II 06 20 04 26.8–2.2 35.23N–.05 32.0E–.10 3–15 26 0-3
ISCJB II 06 20 04 26.3–1.9 35.14N–.06 31.8E–.10 17–11 **¶16007787**
CSEM II 06 20 04 26.2–1.1 35.03N 31.75E 20 3.2L
NIC II 06 20 04 26.8–.10 35.14N 31.81E 20 3.2L
DDA II 06 20 04 33.5 35.70N 32.12E 13 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.0km s-min=8.7km az=159.6.
CSEM Event type ke. Error ellipse: s-maj=23.6km s-min=11.6km az=58.0.
DDA Event type ke.
ISC II 11 10 23 54.7–1.5 35.35N–.09 31.68E–.07 10 14 1-3
ISCJB II 11 10 23 51.5–1.2 35.43N–.06 31.50E–.08 10 **¶17332988**
NIC II 11 10 23 52.7–.10 35.43N 31.59E 11 3.1L
CSEM II 11 10 23 53.9–.42 35.43N 31.68E 2 3.0
DDA II 11 10 24 00.3 36.33N 31.73E 3 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=6.5km az=142.4.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=6.5km az=54.0.
DDA Event type ke.
ISC II 14 03 54 27.3–.60 34.67N–.01 33.03E–.01 14–3 3.8b 263 0-32
DDA II 14 03 54 20.6 34.38N 32.85E 8 3.5 **¶16024750**
HLW II 14 03 54 25.5 34.89N 32.81E 15–13 3.8,3.3L
ISCJB II 14 03 54 26.8–.41 34.61N–.01 32.93E–.02 7–3 3.6b,3.3L
ISK II 14 03 54 26.9 34.62N 32.93E 9 3.7L,3.3L
NEIC II 14 03 54 27.8 34.65N 32.97E 10 3.9L,3.8b
NIC II 14 03 54 27.9–.20 34.65N 32.96E 10 3.9L,3.8b
CSEM II 14 03 54 27.9–.08 34.63N 32.97E 5 3.9L,3.8b
GII II 14 03 54 28.3–.14 34.66N 33.00E 10 3.3,3.8b
IDC II 14 03 54 30.7–2.7 34.59N 32.72E 57–42 3.8,3.8
NSSC II 14 03 54 33.7–1.4 34.69N 33.30E 38–999 3.1L,1.8
ISC Event type fe.
DDA Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=164.8.
NEIC Event type fe. Felt at Akhelia, Akrotiri, Episkopion, Kandou, Kissonerga and Limassol. After NIC.
NIC Event type fe. Felt I=III MM at Limasol.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=71.0.
GII Event type ke.
IDC Error ellipse: s-maj=33.7km s-min=16.7km az=67.0.
NSSC Error ellipse: s-maj=3.8km s-min=16.2km az=-1.0.
ISC II 14 03 59 04.5–.90 34.71N–.05 32.95E–.03 14–5 70 0-5
ISCJB II 14 03 59 03.5–.61 34.64N–.04 32.94E–.05 12–5 **¶16024751**
NIC II 14 03 59 03.4–.20 34.65N 32.96E 10 3.4L
CSEM II 14 03 59 04.0–.08 34.69N 32.95E 10 3.4L
GII II 14 03 59 04.2–.17 34.69N 32.98E 10–0 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=5.0km az=44.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.6km az=55.0.
GII Event type ke.
ISC II 14 17 26 08.0–.96 34.64N–.03 32.97E–.03 14–6 84 0-5
ISK II 14 17 26 06.0 34.63N 32.88E 2 3.5 **¶16024880**
NIC II 14 17 26 07.6–.20 34.65N 32.97E 10 3.4L
ISCJB II 14 17 26 07.1–.61 34.61N–.03 32.96E–.04 7–4 3.4L
CSEM II 14 17 26 08.0–.22 34.64N 32.95E 5 3.4L
NSSC II 14 17 26 11.2–1.3 34.82N 33.06E 38–999 2.2L
DDA II 14 17 26 12.5 35.05N 33.14E 4 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=157.4.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.7km az=50.0.
NSSC Error ellipse: s-maj=12.8km s-min=100.7km az=-1.0.
DDA Event type ke.
ISC II 16 00 19 55.0–1.3 34.56N–.05 32.81E–.05 20–6 44 0-3
NIC II 16 00 19 54.6–.20 34.53N 32.79E 3 3.2L **¶17332991**
ISCJB II 16 00 19 55.5–.87 34.57N–.07 32.91E–.09 27–10 3.2L
CSEM II 16 00 19 55.0–.50 34.52N 32.82E 15 3.2L
NSSC II 16 00 19 57.1–1.5 34.57N 32.97E 18–60 1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=10.9km az=30.9.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=6.6km az=42.0.
NSSC Error ellipse: s-maj=6.6km s-min=44.7km az=-1.0.
NIC II 19 05 59 23.9–.40 35.77N 32.02E 3 3.5L
¶17332993
ISC II 19 23 58 25.1–1.5 34.72N–.05 32.51E–.05 12–10 40 0-4
ISK II 19 23 58 23.1 34.66N 32.42E 14 3.2 **¶16494656**
ISCJB II 19 23 58 24.5–1.1 34.67N–.06 32.45E–.07 20–7 3.2
CSEM II 19 23 58 25.4–.27 34.71N 32.52E 15 3.0L
NIC II 19 23 58 26.2–.20 34.80N 32.56E 22 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=9.0km az=41.6.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.9km az=53.0.
ISC II 24 05 42 03.0–1.2 34.73N–.04 34.04E–.03 55–10 72 0-3
ISCJB II 24 05 42 02.6–.49 34.72N–.04 34.07E–.03 55–10 **¶17332996**
CSEM II 24 05 42 03.8–.17 34.74N 34.04E 40 3.0L
NIC II 24 05 42 03.6–.20 34.71N 33.97E 49 3.0L
NSSC II 24 05 42 05.1–1.2 34.72N 34.17E 39–929 2.0L,1.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=14.0.
NSSC Error ellipse: s-maj=2.6km s-min=13.6km az=-1.0.

ISC	**III**	**01 02 33 00.9–1.3**	**35.67N–.03**	**31.75E–.04**	**10–10**		**67**	**1-5**
CSEM	III	01 02 33 02.0–.27	35.63N	31.69E	10	3.3L		¶16494945
ISK	III	01 02 33 02.0	35.62N	31.68E	24	3.4		
ISCJB	III	01 02 33 02.4–.84	35.64N–.04	31.68E–.05	20–9	3.4		
DDA	III	01 02 33 03.3	35.53N	32.10E	5	3.4		
NIC	III	01 02 33 05.5–.20	35.62N	31.94E	10	3.3L		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=43.0.						
ISCJB		Event type ke. Error ellipse: s-maj=8.1km s-min=5.4km az=35.6.						
DDA		Event type ke.						
ISC	**III**	**04 07 33 26.8–1.1**	**34.93N–.02**	**34.55E–.02**	**16–8**		**239**	**0-37**
IDC	III	04 07 33 24.1–1.2	34.88N	34.21E	0	3.8,3.7		¶16194034
DDA	III	04 07 33 24.7	35.09N	34.48E	6	3.8,3.7		
ISK	III	04 07 33 25.8	34.94N	34.54E	11	3.6,3.7		
NSSC	III	04 07 33 26.9–1.2	35.02N	34.37E	38–22	2.8L,3.7		
CSEM	III	04 07 33 26.5–.08	34.93N	34.56E	10	3.8L,3.7		
NIC	III	04 07 33 26.8–.30	34.89N	34.58E	8	4.1b,3.8L		
ISCJB	III	04 07 33 27.2–.52	34.92N–.01	34.54E–.02	25–5	3.9b,2.9s		
GII	III	04 07 33 28.4–.26	34.80N	34.45E	10–0	2.7,2.9s		
HLW	III	04 07 33 31.8	34.77N	34.37E	33–18	3.5,2.9s		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=39.7km s-min=15.3km az=67.0.						
NSSC		Error ellipse: s-maj=3.6km s-min=16.3km az=-1.0.						
CSEM		Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=61.0.						
ISCJB		Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=162.7.						
GII		Event type ke.						
ISC	**III**	**08 18 31 37.5–1.1**	**35.90N–.02**	**34.50E–.02**	**26–12**		**237**	**1-8**
CSEM	III	08 18 31 37.9–.08	35.92N	34.50E	20	4.1L		¶16495156
DDA	III	08 18 31 37.0	35.97N	34.56E	38	4.1L		
ISK	III	08 18 31 37.3	35.89N	34.50E	30	3.3L		
NSSC	III	08 18 31 39.1–1.3	35.90N	34.63E	22–5	3.0L		
HLW	III	08 18 31 40.9	35.85N	34.41E	31–18	3.6		
GII	III	08 18 31 40.0–.00	35.62N	34.20E	9–0	2.5		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=88.0.						
NSSC		Error ellipse: s-maj=3.3km s-min=5.7km az=-1.0.						
GII		Event type ke.						
ISC	**III**	**08 21 16 50.6–1.1**	**35.81N–.02**	**34.48E–.02**	**20–4**		**133**	**1-5**
ISK	III	08 21 16 51.3	35.84N	34.45E	27	3.2		¶16495160
CSEM	III	08 21 16 52.3–.14	35.90N	34.42E	20	3.3		
NSSC	III	08 21 16 53.2–1.1	35.95N	34.54E	18–5	2.7L		
DDA	III	08 21 16 53.1	36.02N	34.58E	34	2.7L		
NIC	III	08 21 16 55.6–.30	35.82N	34.23E	25	3.3L		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=103.0.						
NSSC		Error ellipse: s-maj=3.4km s-min=5.9km az=-1.0.						
ISC	**III**	**14 12 45 07.6–1.2**	**35.71N–.03**	**31.84E–.03**	**13–9**		**102**	**1-5**
CSEM	III	14 12 45 04.7–.31	35.52N	31.56E	10	3.3L		¶16314732
ISK	III	14 12 45 04.4	35.55N	31.52E	20	3.5		
NIC	III	14 12 45 06.6–.10	35.94N	31.93E	13	3.3L		
ISCJB	III	14 12 45 08.4–.70	35.70N–.04	31.76E–.04	26–6	3.3L		
DDA	III	14 12 45 12.5	36.47N	31.83E	17	3.3L		
NSSC	III	14 12 45 14.4–.93	35.53N	32.87E	235–28	2.4L		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=9.2km s-min=4.5km az=25.0.						
ISCJB		Event type ke. Error ellipse: s-maj=7.5km s-min=3.9km az=44.3.						
NSSC		Error ellipse: s-maj=9.2km s-min=24.7km az=-1.0.						
ISC	**III**	**15 20 00 09.8–1.3**	**34.44N–.04**	**33.53E–.03**	**7–11**		**50**	**1-3**
CSEM	III	15 20 00 15.0–.35	34.42N	33.23E	40	3.1L		¶16320500
NIC	III	15 20 00 16.2–.20	34.49N	33.16E	38	3.1L		
NSSC	III	15 20 00 21.9–2.2	34.41N	34.28E	139–67	2.0L,1.5		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=11.6km s-min=5.3km az=27.0.						
NSSC		Error ellipse: s-maj=7.4km s-min=57.1km az=-1.0.						
NIC	**III**	**18 12 32 17.3–.20**	**34.76N**	**33.02E**	**21**	**2.5L**		
CSEM	III	18 12 32 17.3	34.76N	33.02E	21	2.5L		¶16336107
CSEM		Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.						
ISC	**III**	**23 22 14 44.8–1.2**	**34.39N–.02**	**34.72E–.02**	**32–13**		**189**	**1-4**
CSEM	III	23 22 14 42.7–.10	34.38N	34.69E	10	2.9L		¶16352091
GRAL	III	23 22 14 44.7–.56	34.30N	34.62E	14–6	3.2		
ISK	III	23 22 14 44.0	34.45N	34.61E	22	3.1		
DDA	III	23 22 14 44.0	34.81N	34.60E	5	3.1		
ISCJB	III	23 22 14 44.3–.27	34.40N–.01	34.72E–.02	49–14	3.1		
NSSC	III	23 22 14 45.9–1.3	34.43N	34.77E	39–606	2.4L,1.3		
NIC	III	23 22 14 45.4–.20	34.31N	34.41E	10	2.9L,1.3		
GII	III	23 22 14 46.6–.16	34.39N	34.66E	32–0	2.0,1.3		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=54.0.						
GRAL		Error ellipse: s-maj=2.3km s-min=2.9km az=-1.0.						
ISCJB		Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=155.5.						
NSSC		Error ellipse: s-maj=2.2km s-min=9.4km az=-1.0.						
GII		Event type ke.						
ISC	**III**	**26 16 25 16.0–.77**	**34.46N–.03**	**32.13E–.02**	**31–5**	**4.2b**	**567**	**0-81**
BJI	III	26 16 25 09.9	33.95N	31.77E	30	4.8b,4.6s		¶16455737
ISK	III	26 16 25 13.1	34.37N	32.11E	12	4.2L,4.6s		
NSSC	III	26 16 25 14.3–.40	34.49N	32.30E	0–6	3.8L,4.6s		
NIC	III	26 16 25 15.9–.10	34.35N	32.06E	31	4.2b,4.0L		
DDA	III	26 16 25 15.0	34.70N	32.18E	5	4.2b,4.0L		
GII	III	26 16 25 15.4–.00	34.40N	32.29E	9	4.3b,4.1		
ISCJB	III	26 16 25 15.5–.17	34.41N–.01	32.14E–.01	43–2	4.2b,3.7s		
CSEM	III	26 16 25 16.0–.08	34.40N	32.15E	20	4.3W,4.0L		
IDC	III	26 16 25 17.1–1.9	34.51N	32.17E	36–16	4.3L,4.2		
HLW	III	26 16 25 17.9	34.21N	32.20E	10–13	4.0L,3.8		
GRAL	III	26 16 25 19.9–.84	34.34N	32.68E	0–35	4.3,3.8		
NEIC	III	26 16 25 19.9	34.58N	32.32E	31	4.2b,4.0L		
ISC		Event type fe.						
NSSC		Error ellipse: s-maj=1.4km s-min=11.8km az=-1.0.						
NIC		Event type fe. Felt I=III MM at Pafos and Limasol.						
GII		Event type ke.						
ISCJB		Event type fe. Error ellipse: s-maj=2.3km s-min=1.6km az=138.0.						
CSEM		Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=49.0.						
IDC		Error ellipse: s-maj=11.8km s-min=10.5km az=13.0.						
GRAL		Error ellipse: s-maj=20.8km s-min=36.2km az=-1.0.						
NEIC		Event type fe. Felt [II] at Limassol and Paphos. Also felt at Koloni, Pakhna, Peyia, Pissouri and Polis. Felt [II] at Cairo, Egypt. Also felt at Alexandria and Al Jizah. After NIC.						
ISC	**III**	**27 04 01 32.2–1.0**	**35.03N–.02**	**34.61E–.02**	**16–8**		**95**	**0-3**
DDA	III	27 04 01 31.2	35.02N	34.62E	11			¶16364004
ISK	III	27 04 01 33.5	34.91N	34.54E	22	3.1		
CSEM	III	27 04 01 33.7–.28	34.92N	34.55E	17–2	3.3L		
ISCJB	III	27 04 01 33.8–.63	34.93N–.03	34.59E–.03	24–7	3.3L		
NIC	III	27 04 01 34.9–.10	34.92N	34.46E	15	3.3L		
NSSC	III	27 04 01 37.1–.79	35.01N	34.73E	39–3	1.9L,1.4		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=9.0.						
ISCJB		Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=31.6.						
NSSC		Error ellipse: s-maj=2.4km s-min=4.9km az=-1.0.						
ISC	**III**	**27 17 05 22.9–1.5**	**34.06N–.04**	**32.36E–.05**	**84–15**		**111**	**1-6**
ISCJB	III	27 17 05 23.1–.53	34.03N–.03	32.45E–.04	81–11			¶16364007
CSEM	III	27 17 05 24.5–.16	34.00N	32.38E	40	3.5L		
NIC	III	27 17 05 24.0–.10	34.07N	32.35E	65	3.5L		
GII	III	27 17 05 25.3–.13	33.98N	32.35E	32	2.6		
NSSC	III	27 17 05 25.4–.22	34.10N	32.68E	12–6	2.5L,1.7		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=5.6km s-min=4.8km az=35.8.						
CSEM		Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=101.0.						
GII		Event type ke.						
NSSC		Error ellipse: s-maj=1.3km s-min=7.2km az=-1.0.						
ISC	**III**	**31 10 19 27.9–1.2**	**35.77N–.04**	**31.30E–.04**	**53**		**107**	**1-6**
NIC	III	31 10 19 23.6–.20	36.12N	31.23E	36	3.6L		¶16495875
CSEM	III	31 10 19 24.9–.16	35.72N	31.26E	10	3.4L		
DDA	III	31 10 19 24.8	35.81N	31.32E	26	3.4L		
ISK	III	31 10 19 26.0	35.80N	31.34E	21	3.3L		
ISCJB	III	31 10 19 26.7–.40	35.72N–.04	31.30E–.04	53	3.3L		
NSSC	III	31 10 19 27.4–.77	35.73N	31.34E	130–65	2.8L		
HLW	III	31 10 19 29.4	35.49N	31.39E	31–13	3.6,3.0L		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=42.0.						
ISCJB		Event type ke. Error ellipse: s-maj=5.9km s-min=3.2km az=39.6.						
NSSC		Error ellipse: s-maj=5.5km s-min=19.2km az=-1.0.						
ISC	**IV**	**01 11 36 53.9–1.2**	**34.09N–.02**	**34.99E–.03**	**8–9**		**117**	**0-4**
ISCJB	IV	01 11 36 53.9–.57	34.07N–.02	34.92E–.03	12–3			¶601583055
NSSC	IV	01 11 36 55.6–.52	34.10N	34.96E	18–2	2.4L		
GII	IV	01 11 36 56.4–.00	33.95N	34.93E	9	2.4		
CSEM	IV	01 11 36 56.6–.29	34.07N	34.98E	26–2	3.2L		
GRAL	IV	01 11 36 59.9–.27	34.02N	35.27E	46–3	3.2		
DDA	IV	01 11 37 38.6	35.00N	35.13E	14	3.4		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=4.8km s-min=2.8km az=168.6.						
NSSC		Error ellipse: s-maj=1.3km s-min=2.9km az=-1.0.						
GII		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=4.4km s-min=2.7km az=86.0.						
GRAL		Error ellipse: s-maj=1.8km s-min=4.6km az=-1.0.						
ISC	**IV**	**12 04 11 40.8–1.2**	**34.83N–.06**	**33.49E–.03**	**30–6**		**52**	**0-3**
ISK	IV	12 04 11 38.4	34.75N	33.52E	30	3.0		¶16418172
ISCJB	IV	12 04 11 40.5–1.0	34.83N–.07	33.49E–.05	43–9	3.0		
DDA	IV	12 04 11 40.7	35.12N	33.40E	7	2.9		
CSEM	IV	12 04 11 40.7–.44	34.83N	33.48E	34–3	3.0		
NIC	IV	12 04 11 41.7–.20	34.74N	33.51E	18	2.9L		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=11.5km s-min=6.0km az=165.4.						
CSEM		Event type ke. Error ellipse: s-maj=11.2km s-min=5.6km az=169.0.						
ISC	**IV**	**13 09 21 33.2–1.2**	**34.44N–.03**	**32.10E–.03**	**32–12**		**167**	**0-8**
HLW	IV	13 09 21 33.1	34.47N	31.99E	33–26	3.3L		¶16424716
NIC	IV	13 09 21 35.0–.10	34.56N	32.13E	51	3.3L		
DDA	IV	13 09 21 34.6	34.77N	32.06E	18	3.3		
CSEM	IV	13 09 21 34.6–.13	34.44N	32.11E	40	3.3L		
NSSC	IV	13 09 21 34.2–.44	34.50N	32.42E	3–11	2.6L,1.5		
GII	IV	13 09 21 35.4–.28	34.41N	32.42E	10–0	2.6,1.5		
ISK	IV	13 09 21 36.0	34.77N	32.04E	33	3.2L,1.5		
ISC		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=54.0.						
NSSC		Error ellipse: s-maj=2.2km s-min=21.5km az=-1.0.						
GII		Event type ke.						
ISC	**IV**	**18 12 50 41.0–.97**	**34.93N–.02**	**34.52E–.02**	**17–7**	**3.7b,2.9s**	**229**	**0-81**
GRAL	IV	18 12 50 38.2–.73	34.92N	34.29E	3–10	3.6,2.9s		¶16446637
NIC	IV	18 12 50 39.0–.20	34.96N	34.63E	11	4.2b,4.0L		
GII	IV	18 12 50 40.9–.00	34.86N	34.37E	9	3.3,4.0L		
DDA	IV	18 12 50 40.5	35.16N	34.68E	4	3.2,4.0L		
ISCJB	IV	18 12 50 41.3–.45	34.90N–.01	34.48E–.02	31–4	3.7b,2.9s		
CSEM	IV	18 12 50 41.0–.10	34.90N	34.50E	15	4.0L,2.9s		
IDC	IV	18 12 50 42.6–3.3	34.93N	34.52E	33–29	3.7,3.7		
ISK	IV	18 12 50 43.5	35.05N	34.44E	37	3.7L,3.7		
NSSC	IV	18 12 50 43.4–.84	34.98N	34.66E	37–24	3.2L,3.7		
HLW	IV	18 12 50 49.9	34.38N	34.06E	31–31	3.9,3.2L		
ISC		Event type ke.						
GRAL		Error ellipse: s-maj=12.7km s-min=8.8km az=-1.0.						
GII		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=165.7.						
CSEM		Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=77.0.						
IDC		Error ellipse: s-maj=18.0km s-min=12.7km az=60.0.						
NSSC		Error ellipse: s-maj=3.5km s-min=20.8km az=-1.0.						
ISC	**IV**	**20 04 09 48.7–.92**	**34.90N–.02**	**33.88E–.02**	**27–7**		**102**	**0-5**
ISK	IV	20 04 09 47.9	34.94N	33.91E	28	2.9L		¶16596709
DDA	IV	20 04 09 48.6	35.04N	33.92E	33	3.4L		
ISCJB	IV	20 04 09 48.3–.42	34.88N–.02	33.92E–.03	30–4	3.4L		
CSEM	IV	20 04 09 48.7–.18	34.89N	33.88E	23–2	3.3L		
NIC	IV	20 04 09 50.0–.40	35.04N	33.80E	16	3.3L		
GII	IV	20 04 09 51.4–.12	34.87N	33.93E	32	2.2		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=175.6.						
CSEM		Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=72.0.						
GII		Event type ke.						
ISC	**IV**	**23 18 24 22.5–1.3**	**35.33N–.04**	**31.31E–.05**	**45**		**87**	**1-5**
NIC	IV	23 18 24 19.4–.30	35.70N	31.34E	8	3.4L		¶16596736
DDA	IV	23 18 24 20.7	36.10N	31.01E	8	3.4		
ISCJB	IV	23 18 24 21.0–.70	35.22N–.04	31.28E–.06	45	3.4		
ISK	IV	23 18 24 22.0	35.41N	31.34E	68	3.6		
GII	IV	23 18 24 22.9–.00	35.14N	31.54E	13	3.0		
CSEM	IV	23 18 24 22.3–.29	35.27N	31.28E	64–7	3.4L		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=8.7km s-min=3.8km az=146.7.						
GII		Event type ke.						
CSEM		Event type ke. Error ellipse: s-maj=7.3km s-min=3.6km az=54.0.						
ISC	**IV**	**27 10 38 59.7–1.0**	**35.18N–.03**	**31.25E–.03**	**56–12**	**3.6b**	**242**	**1-79**
IDC	IV	27 10 38 54.1–1.3	35.38N	31.16E	0	3.7,3.6		¶16463563
NIC	IV	27 10 38 56.2–.10	35.40N	31.10E	9	4.1b,3.8L		
ISCJB	IV	27 10 38 58.1–.25	35.15N–.02	31.23E–.03	82–7	3.5b,3.8L		
CSEM	IV	27 10 38 59.9–.12	35.17N	31.23E	60	3.6,3.8L		
NSSC	IV	27 10 38 59.6–1.0	35.21N	31.60E	0–49	2.9L,2.0		
ISK	IV	27 10 39 00.7	35.39N	31.56E	11	3.5L,2.0		
GII	IV	27 10 39 01.2–.17	35.06N	31.18E	32–0	3.0,2.0		
HLW	IV	27 10 39 01.5	34.99N	31.11E	32–31	3.7,3.3L		
DDA	IV	27 10 39 19.4	35.15N	31.18E	54	3.6,3.3L		
ISC		Event type ke.						
IDC		Error ellipse: s-maj=26.5km s-min=17.9km az=42.0.						
ISCJB		Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=154.3.						
CSEM		Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=74.0.						
NSSC		Error ellipse: s-maj=18.1km s-min=88.5km az=-1.0.						
GII		Event type ke.						
ISC	**IV**	**28 09 56 43.2–1.7**	**34.99N–.07**	**34.64E–.05**	**8–12**		**28**	**1-2**
ISCJB	IV	28 09 56 43.5–1.5	34.9N–.10	34.67E–.07	9–13			¶601583898
CSEM	IV	28 09 56 43.3–.62	34.86N	34.69E	10	3.5		
DDA	IV	28 09 56 45.2	35.06N	34.70E	24	3.5		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=18.8km s-min=9.3km az=9.7.						
CSEM		Event type ke. Error ellipse: s-maj=13.5km s-min=7.0km az=165.0.						
NIC	**V**	**06 15 57 57.9–.20**	**34.92N**	**32.07E**	**10**	**3.0L**		
CSEM	V	06 15 57 57.8	34.92N	32.07E	10	3.0L		¶17330117
CSEM		Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.						
ISC	**V**	**15 19 34 37.5–1.4**	**34.41N–.02**	**32.25E–.03**	**17–11**		**185**	**0-6**
HLW	V	15 19 34 37.2	34.53N	32.07E	30–32	3.1,3.0L		¶16516459
NIC	V	15 19 34 37.4–.20	34.41N	32.03E	25	3.6L,3.0L		
ISK	V	15 19 34 37.3	34.34N	32.17E	36	3.3L,3.0L		
ISCJB	V	15 19 34 38.1–.32	34.39N–.02	32.17E–.03	36–21	3.3L,3.0L		
CSEM	V	15 19 34 38.4–.11	34.42N	32.23E	20	3.6L,3.0L		
GII	V	15 19 34 39.0–.44	34.39N	32.35E	10–1	2.2,3.0L		
NSSC	V	15 19 34 41.4–.82	34.50N	32.47E	38–999	2.4L,3.0L		
DDA	V	15 19 34 56.1	34.34N	32.09E	30	3.3L,3.0L		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=4.4km s-min=2.7km az=147.4.						
CSEM		Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=65.0.						
GII		Event type ke.						
NSSC		Error ellipse: s-maj=3.4km s-min=15.2km az=-1.0.						
ISC	**V**	**22 02 12 09.0–.71**	**36.00N–.03**	**31.33E–.02**	**78–9**	**3.5b**	**250**	**1-55**
ISCJB	V	22 02 12 07.4–.19	36.01N–.02	31.30E–.02	80–4	3.6b		¶602385903
IDC	V	22 02 12 07.9–1.1	36.11N	31.28E	62–14	3.7,3.6		
ISK	V	22 02 12 07.3	36.01N	31.34E	51	4.0L,3.6		
CSEM	V	22 02 12 08.8–.07	36.02N	31.32E	40	4.0L,3.6		
DDA	V	22 02 12 08.6	36.33N	31.40E	14	4.0L,3.6		
HLW	V	22 02 12 08.4	36.01N	31.16E	33–27	4.1L,3.6		
THE	V	22 02 12 09.2	36.02N	31.35E	38–1	4.2L,3.6		
NIC	V	22 02 12 10.0–.20	36.10N	31.58E	46	4.4b,4.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=37.7.
IDC Error ellipse: s-maj=9.4km s-min=9.1km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=46.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=115.0.

ISC	**V**	**27 09 40 24.8–1.1**	**35.65N–.03**	**31.42E–.03**	**17–9**		**60**	**1-7**
DDA	V	27 09 40 21.8	35.68N	31.42E	15	3.4		¶17330124
ISCJB	V	27 09 40 22.2–1.5	35.56N–.04	31.35E–.04	7–11	3.4		
CSEM	V	27 09 40 23.6–.23	35.61N	31.34E	10	3.4		
NIC	V	27 09 40 23.8–.30	36.04N	31.65E	10	3.6L		
HLW	V	27 09 40 31.0	35.17N	31.06E	33–13	3.4		

ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.0km az=34.4.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=5.2km az=43.0.

ISC	**VI**	**05 22 51 55.1–1.2**	**35.67N–.02**	**31.85E–.03**	**27–12**		**159**	**1-7**
DDA	VI	05 22 51 51.6	35.71N	31.72E	18	3.5		¶16558251
ISK	VI	05 22 51 54.8	35.65N	31.80E	34	3.5		
CSEM	VI	05 22 51 54.4–.15	35.67N	31.81E	15	3.5		
NIC	VI	05 22 51 57.5–.10	35.74N	32.05E	15	3.5L		
GII	VI	05 22 51 58.7–.00	35.33N	32.07E	1–0	2.7		
NSSC	VI	05 22 52 01.5–1.2	35.45N	32.67E	3–32	1.9L,1.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=40.0.
GII Event type ke.
NSSC Error ellipse: s-maj=9.5km s-min=61.9km az=-1.0.

ISC	**VI**	**14 19 24 49.3–2.2**	**34.48N–.09**	**32.84E–.04**	**11–9**		**52**	**0-3**
ISK	VI	14 19 24 46.2	34.29N	32.82E	12	3.3		¶16598339
CSEM	VI	14 19 24 47.0–.67	34.32N	32.85E	2	3.3L		
NIC	VI	14 19 24 48.1–.10	34.45N	32.92E	3	3.3L		
DDA	VI	14 19 25 10.7	34.57N	32.70E	6	3.3		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.9km s-min=7.9km az=7.0.

ISC	**VI**	**15 11 32 04.2–1.3**	**34.45N–.02**	**32.84E–.02**	**7–9**	**3.8b**	**286**	**0-81**
JSO	VI	15 11 32 01.8–.72	34.76N	32.77E	138–135	3.7		¶16601823
ISK	VI	15 11 32 01.1	34.27N	32.73E	3	3.8L		
NSSC	VI	15 11 32 03.5–1.2	34.54N	32.81E	0–16	3.2L,1.3		
IDC	VI	15 11 32 03.4–.93	34.48N	32.83E	0	3.9,3.9		
NEIC	VI	15 11 32 03.3	34.37N	32.90E	1	4.0L,3.8b		
ISCJB	VI	15 11 32 03.9–.47	34.38N–.01	32.77E–.02	11–3	3.7b,3.8b		
NIC	VI	15 11 32 03.3–.10	34.37N	32.90E	1	4.0L,3.8b		
DDA	VI	15 11 32 04.3	34.55N	32.79E	7	4.2L,3.8b		
GII	VI	15 11 32 04.9–.00	34.47N	32.85E	5–0	3.5,3.8b		
CSEM	VI	15 11 32 05.2–.09	34.42N	32.80E	10	4.0L,3.8b		
HLW	VI	15 11 32 05.6	34.66N	32.83E	33–32	3.6L,3.5		

ISC Event type fe.
JSO Error ellipse: s-maj=157.8km s-min=127.0km az=-1.0.
NSSC Error ellipse: s-maj=3.6km s-min=31.5km az=-1.0.
IDC Error ellipse: s-maj=19.1km s-min=14.9km az=46.0.
NEIC Event type fe. Felt at Limassol. After NIC.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=164.9.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=71.0.

ISC	**VI**	**26 14 57 11.7–1.1**	**35.28N–.04**	**31.38E–.03**	**33–6**	**3.5b**	**110**	**1-39**
ISK	VI	26 14 57 09.5	35.28N	31.34E	63	3.5L		¶16683824
NIC	VI	26 14 57 10.6–.20	35.65N	31.40E	36	4.1b,3.8L		
ISCJB	VI	26 14 57 10.2–1.3	35.28N–.03	31.33E–.04	33–14	3.4b,3.8L		
CSEM	VI	26 14 57 11.3–.26	35.28N	31.31E	40	3.8L,3.8L		
IDC	VI	26 14 57 12.8–1.4	35.30N	31.41E	49–21	3.6,3.6s		
DDA	VI	26 14 57 54.8	35.27N	31.56E	70	3.9,3.6s		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=143.9.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.5km az=46.0.
IDC Error ellipse: s-maj=16.8km s-min=10.4km az=70.0.
DDA Event type ke.

(373) Dead Sea region.

ISC	**I**	**01 16 31 08.8–.92**	**32.67N–.02**	**35.63E–.02**	**11–7**		**178**	**0-8**
GII	I	01 16 31 07.7–.41	32.66N	35.63E	3–0	4.1b,4.0		¶15902615
ISCJB	I	01 16 31 08.2–.30	32.67N–.01	35.60E–.02	11–2	4.1b,4.0		
CSEM	I	01 16 31 08.2–.13	32.66N	35.61E	2	3.4L,4.0		
GRAL	I	01 16 31 09.3–.78	32.65N	35.61E	1–4	3.7,4.0		
NSSC	I	01 16 31 09.1–2.4	32.71N	35.68E	0–9	3.4L,1.9		
NIC	I	01 16 31 11.0–.30	32.67N	35.76E	25	4.3b,4.0L		

ISC Event type ke.
GII Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=9.6.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.3km az=98.0.
GRAL Error ellipse: s-maj=1.7km s-min=4.0km az=-1.0.
NSSC Error ellipse: s-maj=9.1km s-min=8.5km az=-1.0.

IDC	**I**	**16 09 41 56.3–999**	**31.13N**	**34.14E**	**0**			
								¶17190309

IDC Error ellipse: s-maj=580.8km s-min=198.3km az=179.0.

ISC	**I**	**25 00 10 47.3–2.3**	**32.58N–.09**	**35.24E–.07**	**12–10**		**27**	**1-2**
CSEM	I	25 00 10 47.6–.41	32.57N	35.25E	12	2.8L		¶16506012
NSSC	I	25 00 10 47.6–1.2	32.51N	35.27E	13–6	1.2L		
GRAL	I	25 00 10 49.2–.63	32.62N	35.17E	10–2	2.8		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=3.8km az=38.0.
NSSC Error ellipse: s-maj=7.4km s-min=8.7km az=-1.0.
GRAL Error ellipse: s-maj=1.1km s-min=3.2km az=-1.0.

HLW	**II**	**23 08 46 00.4**	**30.88N**	**34.99E**	**4–4**	**3.3L,3.0**		
								¶601783450
ISC	**III**	**06 10 23 14.9–.92**	**30.89N–.05**	**35.09E–.08**	**10**		**19**	**1-3**
NSSC	III	06 10 23 13.4–.93	30.80N	35.07E	0–140	2.0L		¶601710676
HLW	III	06 10 23 15.5	31.08N	35.16E	22–11	2.8,2.7L		
ISCJB	III	06 10 23 15.3–.46	30.87N–.05	35.08E–.10	10	2.8,2.7L		

ISC Event type ke.
ISCJB Event type ke.

ISC	**III**	**17 09 55 35.6–2.0**	**31.06N–.05**	**35.16E–.08**	**14–15**		**32**	**2-3**
NSSC	III	17 09 55 33.2–3.6	31.02N	35.09E	0–765	2.0L		¶601710832
HLW	III	17 09 55 35.9	31.10N	35.19E	16–10	2.7,2.4L		
CSEM	III	17 09 55 37.9–.40	31.04N	35.17E	68–18	2.4L,2.4L		

ISC Event type ke.
NSSC Error ellipse: s-maj=952.4km s-min=712.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=16.5km s-min=4.5km az=113.0.

ISC	**III**	**28 09 17 26.6–1.6**	**30.87N–.05**	**35.21E–.07**	**9–15**		**29**	**1-3**
NSSC	III	28 09 17 25.3–.26	30.55N	35.08E	137–11	2.0L		¶601710946
CSEM	III	28 09 17 27.4–.22	30.79N	35.11E	2	2.7L		
HLW	III	28 09 17 28.4	30.94N	35.16E	21–11	2.7L,2.5		

ISC Event type ke.
NSSC Error ellipse: s-maj=5.1km s-min=3.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=15.4km s-min=4.1km az=122.0.

ISC	**IV**	**04 08 28 35.4–1.2**	**30.93N–.05**	**34.97E–.09**	**8**		**24**	**2-3**
NSSC	IV	04 08 28 30.1–1.1	30.57N	35.03E	0–193	2.0L		¶601711017
HLW	IV	04 08 28 33.6	31.08N	35.05E	12–9	3.3L		
CSEM	IV	04 08 28 34.4–.24	30.90N	34.98E	2	2.0L		
ISCJB	IV	04 08 28 35.3–.60	30.90N–.06	35.0E–.10	8	2.0L		

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.

HLW	**V**	**27 07 35 44.9**	**30.96N**	**35.01E**	**10–14**	**2.6L**		
								¶601780774
ISC	**VI**	**08 18 51 33.1–1.2**	**30.42N–.02**	**35.24E–.03**	**17–10**		**54**	**0-2**
SGS	VI	08 18 51 32.8	30.40N	34.58E	7			¶601780790
HLW	VI	08 18 51 32.2	30.46N	35.20E	3–3	2.6L,2.2		
GII	VI	08 18 51 33.2–.14	30.40N	35.21E	22	2.6,2.2		
CSEM	VI	08 18 51 33.6–.11	30.42N	35.22E	22–1	2.6,2.2		
ISCJB	VI	08 18 51 33.7–.37	30.43N–.02	35.22E–.04	25–4	2.6,2.2		
JSO	VI	08 18 51 33.9–.32	30.43N	35.27E	17–3	3.2,2.2		

ISC Event type ke.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=117.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=3.3km az=13.6.
JSO Error ellipse: s-maj=1.7km s-min=3.5km az=-1.0.

ISC	**VI**	**12 02 16 11.7–.95**	**32.91N–.02**	**35.04E–.04**	**14–7**		**67**	**0-3**
ISCJB	VI	12 02 16 11.5–.61	32.89N–.02	35.00E–.05	9–3			¶601615065
CSEM	VI	12 02 16 11.1–.19	32.90N	34.95E	5	2.1		
GII	VI	12 02 16 11.1–.44	32.87N	35.02E	3–0	2.1		
GRAL	VI	12 02 16 12.6–.30	32.90N	35.00E	1–5	3.1		
NSSC	VI	12 02 16 13.3–.54	32.95N	35.10E	8–2	2.0L,1.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.1km az=21.7.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=1.8km az=107.0.
GII Event type ke.
GRAL Error ellipse: s-maj=3.1km s-min=7.0km az=-1.0.
NSSC Error ellipse: s-maj=2.3km s-min=3.8km az=-1.0.

ISC	**VI**	**19 00 49 52.5–1.1**	**32.94N–.03**	**35.71E–.06**	**26–9**		**22**	**0-2**
NSSC	VI	19 00 49 50.8–2.5	32.96N	35.59E	31–12	1.4L		¶601615095
ISCJB	VI	19 00 49 52.5–.71	32.93N–.03	35.69E–.06	28–5	1.4L		
JSO	VI	19 00 49 52.8–1.1	32.93N	35.68E	20–35	2.2		
CSEM	VI	19 00 49 52.4–.06	32.93N	35.68E	17–1	2.2L		
GRAL	VI	19 00 49 53.5–.30	32.94N	35.74E	9–3	2.7		

ISC Event type ke.
NSSC Error ellipse: s-maj=11.5km s-min=22.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=5.3km az=166.2.
JSO Error ellipse: s-maj=21.8km s-min=54.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=1.1km az=94.0.
GRAL Error ellipse: s-maj=2.8km s-min=4.6km az=-1.0.

(374) Jordan-Syria region.

ISC	**I**	**01 04 23 47.9–.95**	**33.51N–.02**	**35.33E–.03**	**17–7**		**112**	**0-3**
ISCJB	I	01 04 23 47.8–.46	33.53N–.02	35.30E–.04	19–4			¶601706845
NSSC	I	01 04 23 47.6–1.2	33.52N	35.31E	14–4	2.2L,1.2		
CSEM	I	01 04 23 47.8–.15	33.51N	35.33E	12	3.2L,1.2		
GII	I	01 04 23 47.6–.00	33.50N	35.35E	11–0	2.0,1.2		
GRAL	I	01 04 23 49.1–.44	33.50N	35.36E	12–1	3.2,1.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=2.7km az=19.5.
NSSC Error ellipse: s-maj=2.7km s-min=4.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=1.8km az=114.0.
GII Event type ke.
GRAL Error ellipse: s-maj=1.4km s-min=3.0km az=-1.0.

NSSC	**I**	**01 11 16 18.2–1.2**	**34.00N**	**36.80E**	**1–4**	**1.8L,1.0**		
CSEM	I	01 11 16 18.2	34.00N	36.80E	0	1.8L,1.0		¶601706850

NSSC Error ellipse: s-maj=2.3km s-min=3.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**I**	**02 12 00 42.7–1.2**	**36.84N–.03**	**39.47E–.03**	**5–10**		**41**	**1-2**
NSSC	I	02 12 00 38.9–2.4	36.73N	39.05E	37–47	1.7,1.7L		¶16357767
ISK	I	02 12 00 42.8	36.96N	39.46E	5	2.8,1.7L		
DDA	I	02 12 00 42.5	36.86N	39.44E	7	3.0,1.7L		
CSEM	I	02 12 00 43.5–.27	36.85N	39.46E	10	3.0,1.7L		

ISC Event type ke.
NSSC Error ellipse: s-maj=19.0km s-min=25.6km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.0km az=26.0.

ISC	**I**	**03 14 58 36.8–1.1**	**34.48N–.02**	**36.29E–.04**	**6–9**		**38**	**0-2**
GRAL	I	03 14 58 34.0–.33	34.63N	36.38E	2–2	2.9		¶16505963
ISCJB	I	03 14 58 36.6–.61	34.49N–.02	36.30E–.05	0–7	2.9		
CSEM	I	03 14 58 36.6–.26	34.48N	36.29E	2	2.9L		
NSSC	I	03 14 58 36.7–1.5	34.50N	36.38E	0–5	1.6L		

ISC Event type ke.
GRAL Error ellipse: s-maj=2.3km s-min=2.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.0km az=6.1.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.2km az=96.0.
NSSC Error ellipse: s-maj=2.3km s-min=11.6km az=-1.0.

ISC	**I**	**03 19 52 06.1–.99**	**33.72N–.02**	**35.50E–.03**	**4–7**		**85**	**0-3**
ISCJB	I	03 19 52 05.8–.55	33.73N–.02	35.48E–.03	2–3			¶16505964
GII	I	03 19 52 05.4–.00	33.68N	35.50E	1	2.4		
NSSC	I	03 19 52 05.7–1.2	33.70N	35.45E	6–5	2.5L		
CSEM	I	03 19 52 06.0–.16	33.73N	35.48E	2	3.4L		
GRAL	I	03 19 52 07.0–.53	33.72N	35.53E	0–4	3.4		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.0km az=27.3.
GII Event type ke.
NSSC Error ellipse: s-maj=2.4km s-min=5.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.1km az=118.0.
GRAL Error ellipse: s-maj=1.0km s-min=2.3km az=-1.0.

ISC	**I**	**04 05 37 40.7–.87**	**33.13N–.02**	**35.44E–.02**	**11–7**		**77**	**0-3**
GII	I	04 05 37 39.5–.00	33.10N	35.44E	1	2.6		¶16505966
ISCJB	I	04 05 37 40.3–.37	33.12N–.02	35.45E–.02	2–4	2.6		
CSEM	I	04 05 37 40.4–.11	33.13N	35.45E	2	2.6		
NSSC	I	04 05 37 40.6–1.1	33.09N	35.47E	4–4	2.4L		
GRAL	I	04 05 37 41.3–.48	33.13N	35.44E	0–3	3.3		

ISC Event type ke.
GII Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=34.3.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.6km az=120.0.
NSSC Error ellipse: s-maj=2.4km s-min=5.3km az=-1.0.
GRAL Error ellipse: s-maj=0.9km s-min=1.5km az=-1.0.

ISC	**I**	**04 12 54 19.4–.93**	**33.12N–.02**	**35.45E–.02**	**11–6**		**98**	**0-3**
ISCJB	I	04 12 54 18.8–.39	33.12N–.02	35.44E–.03	7–3			¶601706869
GII	I	04 12 54 18.3–.00	33.09N	35.46E	2	2.4		
CSEM	I	04 12 54 18.9–.11	33.12N	35.45E	5	2.4		
NSSC	I	04 12 54 19.5–.93	33.12N	35.49E	6–3	2.2L		
GRAL	I	04 12 54 19.7–.65	33.13N	35.45E	0–3	3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.8km az=24.5.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.6km az=120.0.
NSSC Error ellipse: s-maj=2.0km s-min=4.3km az=-1.0.
GRAL Error ellipse: s-maj=1.3km s-min=3.1km az=-1.0.

ISC	**I**	**06 09 37 59.4–1.1**	**34.41N–.03**	**36.68E–.03**	**10–9**		**40**	**0-2**
GRAL	I	06 09 37 58.6–.38	34.43N	36.82E	0–6	3.0		¶16505968
ISCJB	I	06 09 37 59.5–.64	34.42N–.03	36.71E–.04	10–5	3.0		
CSEM	I	06 09 37 59.9–.19	34.39N	36.66E	10	3.0L		
NSSC	I	06 09 37 59.3–1.8	34.41N	36.68E	6–7	2.4L		

ISC Event type ke.
GRAL Error ellipse: s-maj=5.1km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.3km az=157.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=68.0.
NSSC Error ellipse: s-maj=3.0km s-min=5.6km az=-1.0.

ISC	**I**	**06 11 31 10.9–1.1**	**36.54N–.03**	**36.38E–.03**	**6–11**		**36**	**0-2**
ISCJB	I	06 11 31 10.8–.55	36.55N–.03	36.33E–.04	4–6			¶601608396
CSEM	I	06 11 31 10.8–.34	36.54N	36.36E	5	2.7		
DDA	I	06 11 31 10.6	36.53N	36.37E	7	2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.9km az=43.4.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.5km az=127.0.
DDA Event type ke.

ISC	**I**	**09 04 53 25.7–.99**	**33.94N–.02**	**36.06E–.03**	**7–9**		**37**	**0-2**
ISCJB	I	09 04 53 25.6–.46	33.93N–.02	36.07E–.03	5–6			¶16505969
CSEM	I	09 04 53 26.0–.10	33.94N	36.06E	2	2.3L		
GRAL	I	09 04 53 26.7–.30	33.96N	36.05E	0–80	3.0		
NSSC	I	09 04 53 26.4–1.5	33.89N	36.12E	8–5	2.3L,1.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.0km az=2.6.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=104.0.
GRAL Error ellipse: s-maj=1.8km s-min=1.4km az=-1.0.
NSSC Error ellipse: s-maj=3.0km s-min=5.2km az=-1.0.

ISC	**I**	**09 10 13 21.2–1.2**	**36.34N–.03**	**37.38E–.03**	**3–12**		**34**	**0-1**
NSSC	I	09 10 13 20.9–1.0	36.44N	37.42E	9–8	1.5L		¶601608503

ISCJB	I	09 10 13 21.4–.91	36.36N–.03	37.38E–.04	3–7	1.5L		
CSEM	I	09 10 13 21.4–.22	36.33N	37.37E	8	2.6		
DDA	I	09 10 13 22.0	36.38N	37.35E	7	2.6		
ISC	Event type ke.							
NSSC	Error ellipse: s-maj=5.2km s-min=3.3km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=5.2km s-min=4.7km az=139.9.							
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=4.0km az=6.0.							
DDA	Event type ke.							
ISC	**I**	**09 12 08 16.6–.92**	**36.34N–.03**	**36.36E–.03**	**13–8**		**29**	**0-2**
DDA	I	09 12 08 16.0	36.33N	36.38E	7	2.8		¶16357930
CSEM	I	09 12 08 16.8–.35	36.36N	36.36E	5	2.4		
ISK	I	09 12 08 16.0	36.37N	36.40E	5	2.4		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.3km s-min=5.9km az=159.0.							
ISC	**I**	**10 21 34 07.3–1.0**	**33.14N–.03**	**35.47E–.03**	**7–10**		**44**	**0-2**
ISCJB	I	10 21 34 07.1–.61	33.14N–.03	35.47E–.04	4–5			¶16505971
CSEM	I	10 21 34 07.2–.23	33.13N	35.47E	2	2.9L		
GRAL	I	10 21 34 07.8–.71	33.13N	35.47E	0–9	2.9		
NSSC	I	10 21 34 07.7–1.2	33.11N	35.48E	6–5	1.6L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.1km s-min=4.7km az=136.2.							
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=61.0.							
GRAL	Error ellipse: s-maj=2.9km s-min=3.8km az=-1.0.							
NSSC	Error ellipse: s-maj=3.4km s-min=5.5km az=-1.0.							
ISC	**I**	**10 22 58 03.0–1.2**	**33.13N–.03**	**35.46E–.03**	**1–11**		**36**	**0-2**
CSEM	I	10 22 58 02.8–.24	33.13N	35.46E	2	2.7L		¶16505972
NSSC	I	10 22 58 03.3–1.2	33.10N	35.51E	0–6	1.2L		
GRAL	I	10 22 58 03.5–.42	33.13N	35.46E	0–4	2.7		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=59.0.							
NSSC	Error ellipse: s-maj=3.5km s-min=9.4km az=-1.0.							
GRAL	Error ellipse: s-maj=1.0km s-min=1.6km az=-1.0.							
ISC	**I**	**11 02 00 42.9–1.1**	**33.12N–.02**	**35.47E–.02**	**4–9**		**92**	**0-3**
ISCJB	I	11 02 00 42.4–.38	33.12N–.02	35.47E–.03	2–3			¶16505974
GII	I	11 02 00 42.1–.00	33.05N	35.43E	1	2.2		
CSEM	I	11 02 00 42.6–.09	33.12N	35.47E	2	2.2		
NSSC	I	11 02 00 42.1–.98	33.10N	35.46E	0–3	1.9L		
GRAL	I	11 02 00 43.4–.61	33.13N	35.47E	0–4	3.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=31.9.							
GII	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.4km s-min=1.4km az=119.0.							
NSSC	Error ellipse: s-maj=2.2km s-min=4.2km az=-1.0.							
GRAL	Error ellipse: s-maj=1.4km s-min=2.3km az=-1.0.							
ISC	**I**	**11 10 58 34.4–1.0**	**33.13N–.02**	**35.49E–.04**	**8–10**		**48**	**0-3**
ISCJB	I	11 10 58 33.8–.59	33.12N–.02	35.51E–.05	2–6			¶16505975
GII	I	11 10 58 34.6–.00	33.05N	35.43E	2	2.1		
CSEM	I	11 10 58 34.1–.10	33.13N	35.51E	2	2.1		
GRAL	I	11 10 58 35.2–.53	33.12N	35.47E	0–4	2.9		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.1km s-min=3.7km az=13.6.							
GII	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.1km s-min=1.5km az=106.0.							
GRAL	Error ellipse: s-maj=1.1km s-min=2.0km az=-1.0.							
ISC	**I**	**11 11 09 17.0–1.3**	**36.75N–.06**	**41.00E–.05**	**5**		**13**	**1-4**
ISK	I	11 11 09 14.4	36.66N	41.01E	2	3.0		¶15998101
ISCJB	I	11 11 09 16.0–.80	36.68N–.06	40.99E–.07	5	3.0		
CSEM	I	11 11 09 16.8–.21	36.78N	41.01E	5	3.0		
ISN	I	11 11 09 17.8–10	36.32N	41.02E	1–44	3.0L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=9.4km s-min=6.8km az=140.9.							
CSEM	Event type ke. Error ellipse: s-maj=7.3km s-min=5.2km az=71.0.							
ISN	Error ellipse: s-maj=55.7km s-min=12.7km az=-1.0.							
ISC	**I**	**11 20 03 14.1–1.4**	**36.69N–.05**	**36.38E–.07**	**6–15**		**12**	**0-1**
DDA	I	11 20 03 13.9	36.71N	36.33E	7	2.7		¶601608624
ISC	Event type ke.							
DDA	Event type ke.							
ISC	**I**	**12 07 26 52.1–1.1**	**33.12N–.02**	**35.45E–.02**	**6–9**		**79**	**0-3**
GII	I	12 07 26 50.7–.00	33.08N	35.45E	1	2.4		¶16505976
ISCJB	I	12 07 26 51.4–.40	33.12N–.02	35.45E–.03	2–4	2.4		
NSSC	I	12 07 26 51.9–1.6	33.10N	35.49E	0–7	2.3L,1.2		
CSEM	I	12 07 26 51.6–.12	33.12N	35.45E	2	2.4,1.2		
GRAL	I	12 07 26 52.5–.80	33.12N	35.45E	0–5	3.0,1.2		
ISC	Event type ke.							
GII	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=2.9km az=39.3.							
NSSC	Error ellipse: s-maj=3.8km s-min=11.3km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=123.0.							
GRAL	Error ellipse: s-maj=1.6km s-min=2.4km az=-1.0.							
ISC	**I**	**12 08 10 14.0–1.1**	**33.12N–.02**	**35.47E–.02**	**6–9**		**68**	**0-3**
ISCJB	I	12 08 10 13.4–.39	33.12N–.02	35.48E–.03	3–4			¶16505977
GII	I	12 08 10 13.6–.00	33.06N	35.43E	2	2.4		
CSEM	I	12 08 10 13.7–.13	33.12N	35.46E	2	2.4		
NSSC	I	12 08 10 14.9–1.1	33.10N	35.55E	5–4	2.4L		
GRAL	I	12 08 10 14.4–.41	33.13N	35.46E	0–3	3.2		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=31.9.							
GII	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=120.0.							
NSSC	Error ellipse: s-maj=2.4km s-min=5.2km az=-1.0.							
GRAL	Error ellipse: s-maj=0.9km s-min=1.5km az=-1.0.							
ISC	**I**	**12 08 53 54.9–1.5**	**36.87N–.06**	**39.47E–.03**	**4–14**		**28**	**1-2**
CSEM	I	12 08 53 54.3–1.1	36.81N	39.50E	2	2.9		¶16358016
ISK	I	12 08 53 58.2	37.16N	39.49E	12	2.9		
DDA	I	12 08 53 59.6	36.94N	39.28E	5	2.9		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=24.1km s-min=9.8km az=167.0.							
DDA	Event type ke.							
ISC	**I**	**12 12 44 52.8–1.0**	**33.13N–.02**	**35.45E–.02**	**8–9**		**80**	**0-3**
GII	I	12 12 44 51.3–.94	33.13N	35.49E	3–1	2.9		¶16505978
ISCJB	I	12 12 44 52.0–.37	33.13N–.02	35.45E–.03	3–4	2.9		
CSEM	I	12 12 44 52.4–.09	33.13N	35.44E	5	2.9		
NSSC	I	12 12 44 52.6–1.3	33.12N	35.49E	0–5	2.6L		
GRAL	I	12 12 44 53.1–.87	33.12N	35.47E	0–5	3.3		
ISC	Event type ke.							
GII	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=27.2.							
CSEM	Event type ke. Error ellipse: s-maj=2.6km s-min=1.4km az=115.0.							
NSSC	Error ellipse: s-maj=2.8km s-min=8.3km az=-1.0.							
GRAL	Error ellipse: s-maj=1.5km s-min=3.0km az=-1.0.							
ISC	**I**	**13 00 31 15.1–.73**	**35.18N–.02**	**36.80E–.02**	**7–5**		**163**	**0-5**
ISK	I	13 00 31 14.9	35.17N	36.81E	11	3.6L		¶16151206
GII	I	13 00 31 14.7–.00	35.38N	36.53E	1	3.0		
DDA	I	13 00 31 14.7	35.18N	36.90E	12	3.6		
CSEM	I	13 00 31 15.6–.16	35.20N	36.84E	2	3.3L		
NSSC	I	13 00 31 15.0–1.3	35.18N	36.78E	4–5	3.2L,1.4		
ISCJB	I	13 00 31 16.0–.58	35.19N–.01	36.85E–.03	14–4	3.2L,1.4		
GRAL	I	13 00 31 16.8–.74	35.16N	36.76E	0–6	3.5,1.4		
NIC	I	13 00 31 23.0–.10	35.33N	36.47E	25	4.0b,3.6L		
ISC	Event type ke.							
GII	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.2km s-min=3.1km az=109.0.							
NSSC	Error ellipse: s-maj=4.4km s-min=9.3km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=3.6km s-min=2.2km az=16.7.							
GRAL	Error ellipse: s-maj=2.6km s-min=8.4km az=-1.0.							
ISC	**I**	**16 08 38 49.9–1.0**	**33.15N–.03**	**35.51E–.03**	**6–10**		**41**	**0-2**
ISCJB	I	16 08 38 49.8–.61	33.12N–.03	35.49E–.04	10–6			¶16505982
CSEM	I	16 08 38 50.0–.33	33.13N	35.52E	2	2.8L		
NSSC	I	16 08 38 51.7–2.7	33.14N	35.66E	0–15	1.8L,1.3		
GRAL	I	16 08 38 51.2–.33	33.13N	35.40E	15–20	2.8,1.3		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=6.1km s-min=5.0km az=155.7.							
CSEM	Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=62.0.							
NSSC	Error ellipse: s-maj=5.2km s-min=22.9km az=-1.0.							
GRAL	Error ellipse: s-maj=2.4km s-min=8.6km az=-1.0.							
ISC	**I**	**16 13 06 54.3–1.2**	**36.90N–.03**	**39.46E–.02**	**6–11**		**41**	**1-2**
DDA	I	16 13 06 53.5	36.91N	39.44E	7	3.1		¶16358123
CSEM	I	16 13 06 54.7–.27	36.90N	39.45E	2	1.8L		
NSSC	I	16 13 06 54.6–2.0	36.12N	39.76E	93–19	1.8L		
ISK	I	16 13 06 54.2	36.94N	39.46E	6	3.0		
ISC	Event type ke.							
DDA	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=5.8km s-min=5.7km az=176.0.							
NSSC	Error ellipse: s-maj=9.7km s-min=10.5km az=-1.0.							
ISC	**I**	**16 14 39 20.7–.96**	**33.78N–.02**	**35.91E–.03**	**8–9**		**44**	**0-2**
ISCJB	I	16 14 39 20.5–.48	33.80N–.02	35.90E–.04	6–5			¶16505983
CSEM	I	16 14 39 20.4–.13	33.79N	35.90E	5	2.8L		
NSSC	I	16 14 39 20.5–1.4	33.78N	35.92E	2–4	1.7L		
GRAL	I	16 14 39 21.2–.29	33.83N	35.90E	7–1	2.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=4.0km az=6.6.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=101.0.							
NSSC	Error ellipse: s-maj=2.2km s-min=5.3km az=-1.0.							
GRAL	Error ellipse: s-maj=1.5km s-min=1.3km az=-1.0.							
ISC	**I**	**19 01 14 52.7–.88**	**33.76N–.03**	**35.73E–.03**	**14–7**		**30**	**0-1**
CSEM	I	19 01 14 52.6–.26	33.75N	35.72E	12	1.2L		¶16505984
NSSC	I	19 01 14 52.9–1.4	33.75N	35.72E	12–6	1.2L		
ISCJB	I	19 01 14 53.1–.55	33.76N–.03	35.73E–.07	14–6	1.2L		
GRAL	I	19 01 14 53.9–.27	33.79N	35.79E	1–7	2.6		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=7.8km s-min=4.6km az=88.0.							
NSSC	Error ellipse: s-maj=2.8km s-min=9.3km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=10.4km s-min=4.7km az=175.9.							
GRAL	Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.							
ISC	**I**	**19 09 38 25.7–1.2**	**34.39N–.02**	**36.67E–.04**	**3–10**		**55**	**0-3**
NSSC	I	19 09 38 25.8–1.4	34.42N	36.85E	0–5	2.4L		¶16505985
CSEM	I	19 09 38 26.3–.40	34.38N	36.63E	5	2.9L		
GRAL	I	19 09 38 27.3–.33	34.29N	36.68E	0–11	2.9		
ISC	Event type ke.							
NSSC	Error ellipse: s-maj=2.0km s-min=8.0km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=11.6km s-min=4.1km az=116.0.							
GRAL	Error ellipse: s-maj=4.3km s-min=3.4km az=-1.0.							
ISC	**I**	**19 17 15 20.0–1.6**	**36.87N–.06**	**39.06E–.05**	**5–13**		**20**	**0-2**
ISCJB	I	19 17 15 20.0–1.5	36.84N–.07	39.10E–.06	2–8			¶16358227
CSEM	I	19 17 15 19.8–.80	36.80N	39.11E	2	2.5		
ISK	I	19 17 15 22.1	37.04N	39.19E	5	2.5		
DDA	I	19 17 15 25.7	36.99N	38.69E	7	2.7		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=12.7km s-min=7.5km az=169.3.							
CSEM	Event type ke. Error ellipse: s-maj=18.7km s-min=9.9km az=177.0.							
DDA	Event type ke.							
ISC	**I**	**20 06 19 19.1–.83**	**33.13N–.02**	**35.46E–.02**	**15–6**		**68**	**0-3**
ISCJB	I	20 06 19 19.1–.36	33.11N–.02	35.46E–.03	12–3			¶16505988
CSEM	I	20 06 19 19.1–.09	33.14N	35.45E	12	2.1		
GII	I	20 06 19 19.1–.31	33.08N	35.46E	3–0	2.1		
NSSC	I	20 06 19 20.7–1.4	33.11N	35.56E	25–24	1.7L		
GRAL	I	20 06 19 20.0–.87	33.12N	35.45E	4–3	3.0		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=26.7.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=117.0.							
GII	Event type ke.							
NSSC	Error ellipse: s-maj=4.8km s-min=13.0km az=-1.0.							
GRAL	Error ellipse: s-maj=1.6km s-min=2.6km az=-1.0.							
ISC	**I**	**20 14 11 45.5–1.4**	**34.11N–.04**	**35.55E–.07**	**13–10**		**26**	**0-1**
NSSC	I	20 14 11 43.3–1.6	34.11N	35.47E	0–9	1.8L		¶16505989
ISCJB	I	20 14 11 45.4–1.4	34.09N–.04	35.5E–.10	14–6	1.8L		
CSEM	I	20 14 11 45.9–.78	34.10N	35.60E	5	1.8L		
GRAL	I	20 14 11 48.5–.28	34.01N	35.75E	6–4	2.8		
ISC	Event type ke.							
NSSC	Error ellipse: s-maj=4.1km s-min=11.7km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=15.9km s-min=6.5km az=7.6.							
CSEM	Event type ke. Error ellipse: s-maj=19.1km s-min=7.4km az=111.0.							
GRAL	Error ellipse: s-maj=1.1km s-min=1.2km az=-1.0.							
ISC	**I**	**20 14 57 31.6–1.1**	**33.13N–.02**	**35.44E–.04**	**10–8**		**43**	**0-3**
NSSC	I	20 14 56 50.7–37	34.05N	35.24E	292–481	2.3L		¶16505990
ISCJB	I	20 14 57 31.2–.49	33.14N–.02	35.43E–.04	8–4	2.3L		
CSEM	I	20 14 57 31.2–.24	33.08N	35.82E	2	2.0		
GII	I	20 14 57 31.1–.40	33.10N	35.45E	3–0	2.0		
GRAL	I	20 14 57 32.3–.48	33.12N	35.47E	0–2	3.0		
ISC	Event type ke.							
NSSC	Error ellipse: s-maj=165.3km s-min=999.9km az=-1.0.							
ISCJB	Event type ke. Error ellipse: s-maj=6.5km s-min=3.1km az=19.7.							
CSEM	Event type ke. Error ellipse: s-maj=9.3km s-min=3.3km az=92.0.							
GII	Event type ke.							
GRAL	Error ellipse: s-maj=1.1km s-min=3.5km az=-1.0.							
ISC	**I**	**20 16 15 05.7–.88**	**33.12N–.02**	**35.46E–.02**	**10–7**		**61**	**0-3**
GII	I	20 16 15 04.9–.00	33.08N	35.48E	2	2.0		¶16505991
ISCJB	I	20 16 15 05.4–.41	33.11N–.02	35.45E–.03	6–4	2.0		
CSEM	I	20 16 15 05.5–.13	33.12N	35.46E	4–2	2.0		
NSSC	I	20 16 15 06.4–1.4	33.05N	35.45E	14–9	2.1L		
GRAL	I	20 16 15 06.4–.38	33.12N	35.45E	0–3	3.2		
ISC	Event type ke.							
GII	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=20.2.							
CSEM	Event type ke. Error ellipse: s-maj=3.5km s-min=2.1km az=115.0.							
NSSC	Error ellipse: s-maj=7.0km s-min=15.3km az=-1.0.							
GRAL	Error ellipse: s-maj=0.8km s-min=1.2km az=-1.0.							
ISC	**I**	**20 18 25 28.2–1.0**	**33.13N–.03**	**35.46E–.03**	**8–10**		**28**	**0-2**
CSEM	I	20 18 25 28.3–.34	33.14N	35.45E	2	3.0L		¶16505992
GRAL	I	20 18 25 28.8–.43	33.12N	35.47E	7–2	3.0		
NSSC	I	20 18 25 29.5–1.5	33.08N	35.58E	0–8	1.6L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=100.0.							
GRAL	Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.							
NSSC	Error ellipse: s-maj=3.8km s-min=22.4km az=-1.0.							
ISC	**I**	**20 21 38 49.3–.86**	**33.13N–.02**	**35.42E–.02**	**11–6**		**162**	**0-19**
HLW	I	20 21 38 43.2	33.76N	35.70E	31–21	3.6,3.2L		¶16505994
ISCJB	I	20 21 38 48.9–.34	33.15N–.01	35.37E–.02	11–2	3.6,3.2L		
NSSC	I	20 21 38 49.7–8.2	33.05N	35.51E	0–43	3.2L,3.2L		
CSEM	I	20 21 38 49.3–.08	33.15N	35.42E	5	3.8L,3.2L		
GII	I	20 21 38 49.1–.71	33.09N	35.46E	3–1	3.5,3.2L		
GRAL	I	20 21 38 50.0–.35	33.13N	35.44E	1–2	3.8,3.2L		
DDA	I	20 21 39 02.9	34.03N	34.99E	20	3.6,3.2L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=12.2.							
NSSC	Error ellipse: s-maj=65.7km s-min=35.6km az=-1.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=109.0.							
GII	Event type ke.							
GRAL	Error ellipse: s-maj=1.3km s-min=1.5km az=-1.0.							
DDA	Event type ke.							
ISC	**I**	**20 21 45 23.5–1.1**	**33.07N–.04**	**35.39E–.06**	**28–12**		**30**	**0-2**
CSEM	I	20 21 45 24.0–.39	33.11N	35.46E	12	2.7L		¶16505995
GRAL	I	20 21 45 24.7–.39	33.09N	35.42E	21–4	2.7		
NSSC	I	20 21 45 26.9–1.2	33.03N	35.60E	34–9	1.4L		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9.4km s-min=6.4km az=65.0.							
GRAL	Error ellipse: s-maj=4.2km s-min=5.7km az=-1.0.							
NSSC	Error ellipse: s-maj=7.6km s-min=17.2km az=-1.0.							
ISC	**I**	**20 22 18 56.6–1.1**	**33.06N–.03**	**35.50E–.03**	**6–11**		**30**	**0-2**
CSEM	I	20 22 18 57.7–.20	33.12N	35.45E	5	3.0L		¶16505997

GRAL I 20 22 18 58.6–.63 33.12N 35.46E 0–5 3.0
NSSC I 20 22 19 01.5–1.1 33.10N 35.80E 0–6 1.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=75.0.
GRAL Error ellipse: s-maj=1.4km s-min=2.0km az=-1.0.
NSSC Error ellipse: s-maj=2.0km s-min=8.7km az=-1.0.
ISC I 21 01 33 23.3–1.7 36.34N–.06 37.05E–.05 1–19 11 0-1
DDA I 21 01 33 23.9 36.37N 37.04E 7 2.7 **¶601608923**
ISC Event type ke.
DDA Event type ke.
ISC I 21 04 11 48.0–.89 33.11N–.02 35.48E–.02 12–7 58 0-3
GII I 21 04 11 46.4–.00 33.09N 35.47E 1 2.1 **¶16506000**
ISCJB I 21 04 11 47.4–.41 33.11N–.02 35.48E–.03 3–5 2.1
CSEM I 21 04 11 47.7–.16 33.12N 35.46E 2 2.1
GRAL I 21 04 11 48.5–.71 33.12N 35.46E 0–6 3.2
NSSC I 21 04 11 51.3–.96 33.07N 35.75E 2–6 1.6L
ISC Event type ke.
GII Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.4km az=36.8.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=121.0.
GRAL Error ellipse: s-maj=1.8km s-min=2.5km az=-1.0.
NSSC Error ellipse: s-maj=2.1km s-min=7.6km az=-1.0.
ISC I 21 04 45 55.8–1.0 33.11N–.04 35.43E–.05 29–11 26 0-2
CSEM I 21 04 45 57.3–.25 33.14N 35.48E 2 2.9L **¶16506001**
GRAL I 21 04 45 57.9–.38 33.11N 35.41E 19–24 2.9
NSSC I 21 04 46 01.5–1.6 33.10N 35.83E 4–12 1.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.2km az=69.0.
GRAL Error ellipse: s-maj=6.1km s-min=16.1km az=-1.0.
NSSC Error ellipse: s-maj=3.6km s-min=12.1km az=-1.0.
ISC I 22 16 18 30.0–.93 33.80N–.02 35.77E–.04 8–11 39 0-2
NSSC I 22 16 18 27.5–.93 33.87N 35.55E 11–3 1.5L,1.2 **¶16506010**
ISCJB I 22 16 18 30.0–.51 33.82N–.03 35.71E–.05 12–5 1.5L,1.2
CSEM I 22 16 18 29.8–.11 33.79N 35.77E 5 3.0L,1.2
GRAL I 22 16 18 30.7–.36 33.79N 35.77E 0–24 3.0,1.2
ISC Event type ke.
NSSC Error ellipse: s-maj=2.9km s-min=6.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.4km az=12.9.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=122.0.
GRAL Error ellipse: s-maj=0.8km s-min=1.1km az=-1.0.
ISC I 25 01 15 18.3–.99 33.13N–.03 35.46E–.03 10–10 39 0-2
ISCJB I 25 01 15 17.9–.63 33.12N–.03 35.47E–.04 2–6 **¶16506013**
CSEM I 25 01 15 18.1–.17 33.12N 35.46E 5 3.1L
GRAL I 25 01 15 18.7–.30 33.11N 35.47E 0–3 3.1
NSSC I 25 01 15 19.1–1.1 33.11N 35.56E 0–5 1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.2km az=176.4.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=73.0.
GRAL Error ellipse: s-maj=2.2km s-min=1.6km az=-1.0.
NSSC Error ellipse: s-maj=2.6km s-min=9.2km az=-1.0.
ISC I 25 15 04 43.7–1.4 36.50N–.05 38.56E–.03 7–10 30 0-2
ISCJB I 25 15 04 44.2–1.3 36.52N–.05 38.57E–.04 6–7 **¶601609088**
CSEM I 25 15 04 44.6–.58 36.56N 38.52E 10 3.0
NSSC I 25 15 04 47.7–.77 36.36N 38.58E 35–10 2.1L
DDA I 25 15 04 47.4 36.80N 38.48E 10 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=4.5km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=17.7km s-min=9.8km az=10.0.
NSSC Error ellipse: s-maj=6.4km s-min=2.3km az=-1.0.
DDA Event type ke.
ISC I 25 15 27 08.9–2.3 33.09N–.06 35.43E–.09 3–13 26 1-2
CSEM I 25 15 27 08.7–.24 33.09N 35.43E 2 2.8L **¶16506014**
NSSC I 25 15 27 09.7–.63 33.09N 35.50E 1–4 1.2L
GRAL I 25 15 27 10.1–.98 33.09N 35.52E 0–11 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.0km az=63.0.
NSSC Error ellipse: s-maj=2.3km s-min=8.1km az=-1.0.
GRAL Error ellipse: s-maj=2.4km s-min=8.1km az=-1.0.
NSSC I 26 10 30 55.5–1.6 33.65N 37.01E 0–7 1.9L
CSEM I 26 10 30 55.5 33.65N 37.01E 0 1.9L **¶601707498**
NSSC Error ellipse: s-maj=2.8km s-min=5.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 26 14 05 18.4–1.6 36.66N–.06 36.20E–.09 3–16 12 0-2
DDA I 26 14 05 19.6 36.56N 36.33E 7 2.6 **¶601609123**
ISC Event type ke.
DDA Event type ke.
ISC I 27 03 59 57.5–1.1 36.83N–.02 38.02E–.02 15–9 85 0-2
ISCJB I 27 03 59 57.4–.55 36.81N–.02 38.01E–.02 10–4 **¶16358414**
CSEM I 27 03 59 57.7–.13 36.83N 38.00E 10 3.1
DDA I 27 03 59 57.9 36.86N 37.99E 26 3.1
ISK I 27 03 59 57.8 36.91N 37.94E 9 2.8
NSSC I 27 03 59 58.0–.92 36.80N 38.03E 14–3 2.5L,1.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=159.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=154.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=3.6km s-min=1.9km az=-1.0.
ISC I 28 08 43 13.8–1.0 36.98N–.04 37.04E–.05 10–8 18 0-1
ISCJB I 28 08 43 13.8–.66 36.99N–.03 37.01E–.05 7–8 **¶601609202**
DDA I 28 08 43 13.4 36.99N 37.05E 7 2.7
CSEM I 28 08 43 13.4 36.99N 37.05E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.4km az=173.4.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 28 09 56 15.3–1.2 34.83N–.02 36.93E–.03 34–3 64 0-3
CSEM I 28 09 56 14.9–.17 34.81N 36.99E 30 2.0L **¶601707513**
NSSC I 28 09 56 14.9–1.3 34.82N 36.69E 70–9 2.0L
DDA I 28 09 56 23.9 35.26N 37.08E 26 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.4km az=95.0.
NSSC Error ellipse: s-maj=2.3km s-min=5.8km az=-1.0.
DDA Event type ke.
NSSC I 31 10 17 39.6–1.6 34.35N 36.72E 0–10 1.9L
GRAL I 31 10 17 36.0–.41 34.54N 36.87E 0–12 2.8 **¶16506017**
CSEM I 31 10 17 38.2–.59 34.44N 36.65E 8 1.9L
NSSC Error ellipse: s-maj=17.9km s-min=6.9km az=-1.0.
GRAL Error ellipse: s-maj=9.6km s-min=7.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=12.2km s-min=5.9km az=179.0.
ISC II 02 07 49 27.6–1.2 36.69N–.04 36.72E–.04 7–12 27 0-2
ISCJB II 02 07 49 28.3–.66 36.74N–.04 36.66E–.05 2–8 **¶601609280**
NSSC II 02 07 49 28.5–2.6 36.54N 37.13E 28–15 1.9L
DDA II 02 07 49 28.2 36.72N 36.65E 7 2.8
CSEM II 02 07 49 29.7–.49 36.63N 36.77E 2 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.3km az=37.7.
NSSC Error ellipse: s-maj=23.8km s-min=28.2km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=19.1km s-min=4.7km az=137.0.
ISC II 03 09 12 19.1–1.2 34.44N–.03 36.68E–.03 3–17 23 0-2
ISCJB II 03 09 12 18.8–.85 34.44N–.05 36.68E–.04 6–11 **¶16506019**
CSEM II 03 09 12 18.9–.26 34.43N 36.67E 2 1.9L
NSSC II 03 09 12 18.7–.97 34.44N 36.68E 4–6 1.9L
GRAL II 03 09 12 20.2–.49 34.34N 36.71E 0–93 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=6.0km az=3.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=5.0km az=95.0.
NSSC Error ellipse: s-maj=2.3km s-min=3.7km az=-1.0.
GRAL Error ellipse: s-maj=6.6km s-min=6.1km az=-1.0.
ISC II 04 10 53 48.3–.89 33.81N–.03 35.94E–.03 16–8 43 0-2
NSSC II 04 10 53 47.7–1.5 33.83N 35.92E 5–6 1.8L **¶16506024**
ISCJB II 04 10 53 48.5–.45 33.81N–.02 35.94E–.04 12–5 1.8L
CSEM II 04 10 53 48.4–.18 33.80N 35.91E 15 2.8L
GRAL II 04 10 53 49.9–.45 33.78N 35.95E 0–16 2.8
ISC Event type ke.
NSSC Error ellipse: s-maj=2.4km s-min=8.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=172.8.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.3km az=90.0.
GRAL Error ellipse: s-maj=1.2km s-min=1.7km az=-1.0.
ISC II 05 16 10 53.6–1.3 36.35N–.03 36.90E–.04 15–11 37 0-1
DDA II 05 16 10 53.2 36.30N 37.06E 7 2.7 **¶601609402**
ISCJB II 05 16 10 54.9–.61 36.37N–.04 36.96E–.09 23–12 2.7
CSEM II 05 16 10 54.2–.33 36.48N 36.81E 30 1.8L
NSSC II 05 16 10 54.3–1.6 36.57N 36.32E 31–6 1.8L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=4.2km az=27.7.
CSEM Event type ke. Error ellipse: s-maj=16.2km s-min=6.7km az=129.0.
NSSC Error ellipse: s-maj=10.3km s-min=14.8km az=-1.0.
ISC II 06 00 55 00.4–.00 33.85N–.04 35.87E–.06 15–10 21 0-2
NSSC II 06 00 54 56.3–1.8 34.05N 35.87E 5–32 1.2L,0.9 **¶16506026**
ISCJB II 06 00 55 00.3–.84 33.86N–.04 35.8E–.10 20–12 1.2L,0.9
CSEM II 06 00 55 00.0–.22 33.84N 35.83E 17–3 2.7L,0.9
GRAL II 06 00 55 01.6–.32 33.85N 35.88E 0–58 2.7,0.9
ISC Event type ke.
NSSC Error ellipse: s-maj=5.1km s-min=47.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=7.1km az=179.1.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=3.6km az=101.0.
GRAL Error ellipse: s-maj=0.9km s-min=1.9km az=-1.0.
ISC II 06 10 53 47.6–.93 36.09N–.03 36.06E–.05 6–8 26 0-2
DDA II 06 10 53 46.5 36.10N 36.03E 7 2.7 **¶601609440**
ISCJB II 06 10 53 48.3–.60 36.08N–.03 36.10E–.05 5–5 2.7
CSEM II 06 10 53 48.3–.19 36.06N 36.09E 4–2 1.5L
NSSC II 06 10 53 48.1–.68 36.10N 36.07E 4–5 1.5L
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=4.8km az=28.4.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.3km az=112.0.
NSSC Error ellipse: s-maj=2.2km s-min=3.4km az=-1.0.
ISC II 06 11 08 10.5–1.5 34.46N–.03 36.68E–.06 16–9 39 0-2
ISCJB II 06 11 08 10.8–1.2 34.48N–.03 36.65E–.08 10–7 **¶16506027**
CSEM II 06 11 08 10.9–.36 34.44N 36.65E 12 3.1L
GRAL II 06 11 08 11.8–.33 34.33N 36.73E 2–3 3.1
NSSC II 06 11 08 12.9–1.9 34.47N 36.83E 42–11 1.9L,1.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=4.7km az=10.3.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=5.3km az=103.0.
GRAL Error ellipse: s-maj=3.5km s-min=2.4km az=-1.0.
NSSC Error ellipse: s-maj=3.8km s-min=14.0km az=-1.0.
ISC II 06 13 03 41.5–1.1 36.80N–.02 36.28E–.03 12–9 44 0-2
DDA II 06 13 03 40.8 36.80N 36.26E 24 2.6 **¶601609445**
ISCJB II 06 13 03 41.4–.65 36.78N–.02 36.28E–.04 5–5 2.6
CSEM II 06 13 03 42.0–.22 36.76N 36.27E 5 1.9L
NSSC II 06 13 03 43.3–.91 36.72N 36.32E 8–5 1.9L,1.0
ISC Event type ke.
DDA Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.8km az=18.1.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.9km az=116.0.
NSSC Error ellipse: s-maj=5.1km s-min=6.0km az=-1.0.
ISC II 07 16 19 35.9–1.2 34.50N–.03 36.27E–.03 8–10 30 0-2
NSSC II 07 16 19 35.7–1.1 34.47N 36.23E 0–3 1.6L **¶16506028**
GRAL II 07 16 19 35.4–.32 34.57N 36.40E 3–3 2.9
ISCJB II 07 16 19 37.0–.57 34.47N–.02 36.29E–.04 7–5 2.9
CSEM II 07 16 19 37.5–.52 34.42N 36.28E 5 2.9L
ISC Event type ke.
NSSC Error ellipse: s-maj=1.8km s-min=4.3km az=-1.0.
GRAL Error ellipse: s-maj=3.0km s-min=2.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=176.7.
CSEM Event type ke. Error ellipse: s-maj=13.6km s-min=5.4km az=163.0.
ISC II 08 17 57 41.5–1.3 36.85N–.04 37.88E–.02 11–10 49 1-2
DDA II 08 17 57 42.8 36.84N 37.73E 7 2.6 **¶16494360**
NSSC II 08 17 57 43.1–1.4 36.98N 37.79E 26–14 1.8L
ISK II 08 17 57 43.1 36.81N 37.90E 16 2.7
CSEM II 08 17 57 45.0–.16 36.83N 37.89E 30 2.6
ISC Event type ke.
DDA Event type ke.
NSSC Error ellipse: s-maj=20.1km s-min=9.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.2km az=158.0.
ISC II 09 16 05 22.1–.94 33.60N–.03 35.75E–.05 10–7 34 0-1
ISCJB II 09 16 05 22.3–.66 33.60N–.04 35.75E–.07 9–6 **¶16506070**
CSEM II 09 16 05 22.0–.18 33.59N 35.73E 5 2.5L
GRAL II 09 16 05 22.4–.33 33.59N 35.76E 9–5 2.5
NSSC II 09 16 05 23.0–.85 33.59N 35.79E 10–3 1.4L,1.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=4.7km az=144.9.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=60.0.
GRAL Error ellipse: s-maj=3.3km s-min=3.0km az=-1.0.
NSSC Error ellipse: s-maj=2.2km s-min=7.1km az=-1.0.
ISC II 10 03 56 42.2–1.4 36.11N–.02 37.71E–.02 16–11 178 1-23
DDA II 10 03 56 41.7 36.16N 37.70E 30 3.4 **¶601710428**
NSSC II 10 03 56 41.1–1.5 36.11N 37.72E 5–7 3.3L,1.9
ISCJB II 10 03 56 42.9–.58 36.10N–.02 37.71E–.02 25–5 3.3L,1.9
ISK II 10 03 56 43.2 36.35N 37.57E 3 3.2L,1.9
CSEM II 10 03 56 43.3–.13 36.11N 37.71E 20 3.4,1.9
ISC Event type ke.
DDA Event type ke.
NSSC Error ellipse: s-maj=3.8km s-min=2.8km az=-1.0. Moment Tensor Solution. NP1: ϕ_s153.70000°,δ54.07000°,λ-37.45000°.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=39.9.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=115.0.
ISC II 10 06 02 23.0–1.0 34.15N–.03 35.74E–.04 30–6 50 0-2
ISCJB II 10 06 02 22.8–.64 34.15N–.03 35.72E–.05 28–4 **¶16506071**
CSEM II 10 06 02 22.6–.17 34.16N 35.71E 22–1 3.1L
NSSC II 10 06 02 22.3–1.2 34.16N 35.70E 20–5 1.9L,1.0
GRAL II 10 06 02 23.7–.47 34.15N 35.73E 28–1 3.1,1.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=4.2km az=6.3.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=98.0.
NSSC Error ellipse: s-maj=2.2km s-min=5.6km az=-1.0.
GRAL Error ellipse: s-maj=2.1km s-min=3.0km az=-1.0.
ISC II 10 08 33 06.4–1.4 34.31N–.03 36.55E–.05 67–8 32 0-2
ISCJB II 10 08 33 05.6–.88 34.33N–.04 36.51E–.08 70–9 **¶16506072**
CSEM II 10 08 33 06.0–.69 34.33N 36.57E 70–9 2.2L
NSSC II 10 08 33 06.3–3.2 34.30N 36.50E 69–19 2.2L
GRAL II 10 08 33 09.4–.52 34.43N 36.78E 0–9 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.5km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=17.4km s-min=9.9km az=78.0.
NSSC Error ellipse: s-maj=6.5km s-min=15.6km az=-1.0.
GRAL Error ellipse: s-maj=4.1km s-min=6.7km az=-1.0.
ISC II 10 09 38 58.7–1.0 34.38N–.02 36.66E–.03 7–8 55 0-4
NSSC II 10 09 38 57.9–1.9 34.40N 36.67E 0–5 2.2L **¶16506073**
ISCJB II 10 09 38 58.3–.62 34.40N–.02 36.68E–.04 3–5 2.2L
CSEM II 10 09 38 58.3–.21 34.39N 36.67E 2 2.2L
GRAL II 10 09 38 58.3–.36 34.36N 36.76E 1–6 2.9
ISC Event type ke.
NSSC Error ellipse: s-maj=2.5km s-min=4.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.5km az=173.9.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.4km az=94.0.
GRAL Error ellipse: s-maj=4.3km s-min=3.2km az=-1.0.
ISC II 10 18 15 14.3–2.7 36.31N–.09 40.81E–.06 1–15 30 1-2
CSEM II 10 18 15 14.4–.49 36.31N 40.83E 2 3.0 **¶16494414**

DDA II 10 18 15 15.0 36.30N 40.81E 24 2.9
ISK II 10 18 15 16.1 36.44N 40.78E 11 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=6.5km az=172.0.
DDA Event type ke.
ISC II 12 14 26 55.8–1.5 36.78N–.06 39.42E–.03 10–10 30 1-2
DDA II 12 14 26 55.8 36.85N 39.39E 7 2.8 **¶16494477**
CSEM II 12 14 26 56.2–.45 36.80N 39.43E 2 2.8
ISK II 12 14 26 57.6 36.92N 39.44E 5 3.1
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=4.6km az=163.0.
ISC II 13 16 10 47.5–1.1 36.70N–.03 36.50E–.03 4–12 33 0-2
ISK II 13 16 10 46.4 36.69N 36.53E 5 2.6 **¶16494494**
CSEM II 13 16 10 47.6–.17 36.70N 36.49E 2 2.6
DDA II 13 16 10 47.2 36.68N 36.48E 20 2.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=145.0.
DDA Event type ke.
ISC II 14 09 19 10.7–1.0 34.37N–.03 36.53E–.06 19–2 34 0-2
NSSC II 14 09 19 08.8–1.2 34.34N 36.14E 2–4 2.1L **¶16506108**
CSEM II 14 09 19 09.5–.42 34.37N 36.63E 5 3.0L
ISCJB II 14 09 19 10.8–.81 34.36N–.03 36.54E–.08 14–4 3.0L
GRAL II 14 09 19 14.5–.33 34.27N 36.42E 0–6 3.0
ISC Event type ke.
NSSC Error ellipse: s-maj=3.0km s-min=6.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=3.6km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=4.2km az=9.1.
GRAL Error ellipse: s-maj=2.0km s-min=3.2km az=-1.0.
ISC II 14 22 41 34.2–1.0 36.10N–.03 36.55E–.04 10–10 45 0-2
NSSC II 14 22 41 33.9–1.4 36.11N 36.55E 14–31 1.8L **¶16494521**
ISCJB II 14 22 41 34.3–.53 36.14N–.03 36.48E–.06 4–6 1.8L
CSEM II 14 22 41 34.3–.33 36.11N 36.48E 10 2.8
DDA II 14 22 41 38.1 36.31N 36.42E 13 2.8
ISK II 14 22 41 40.0 36.49N 36.35E 5 2.8
ISC Event type ke.
NSSC Error ellipse: s-maj=3.6km s-min=9.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=3.8km az=29.4.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=4.8km az=109.0.
DDA Event type ke.
NSSC II 14 23 23 30.7–.50 35.74N 36.34E 16–2 1.2L
CSEM II 14 23 23 31.0–.51 35.75N 36.35E 5 1.2L **¶601710470**
NSSC Error ellipse: s-maj=1.2km s-min=2.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=19.2km s-min=10.8km az=110.0.
ISC II 16 02 13 17.2–1.1 35.94N–.03 36.83E–.04 11–15 34 0-2
ISCJB II 16 02 13 17.8–1.2 35.95N–.03 36.77E–.08 12–9 **¶601609691**
CSEM II 16 02 13 17.3–.16 35.94N 36.83E 2 1.2L
NSSC II 16 02 13 17.5–1.4 35.95N 36.79E 4–7 1.2L
DDA II 16 02 13 17.6 35.99N 36.81E 7 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=4.6km az=20.1.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=128.0.
NSSC Error ellipse: s-maj=2.8km s-min=7.0km az=-1.0.
DDA Event type ke.
ISC II 17 13 15 49.3–1.1 33.79N–.03 36.65E–.03 15–9 30 0-1
NSSC II 17 13 15 48.9–1.0 33.79N 36.65E 0–5 2.5L **¶16506115**
ISCJB II 17 13 15 49.3–.68 33.80N–.04 36.65E–.04 8–7 2.5L
CSEM II 17 13 15 49.2–.17 33.79N 36.65E 15 2.5L
GRAL II 17 13 15 50.0–.43 33.76N 36.69E 28–21 3.2
ISC Event type ke.
NSSC Error ellipse: s-maj=3.5km s-min=3.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.9km az=146.5.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=148.0.
GRAL Error ellipse: s-maj=2.3km s-min=7.1km az=-1.0.
ISC II 18 17 33 38.3–.89 36.90N–.02 37.35E–.02 15–7 90 0-3
ISCJB II 18 17 33 37.6–.56 36.85N–.02 37.38E–.03 3–4 **¶16494625**
ISK II 18 17 33 37.8 36.80N 37.39E 11 3.1
CSEM II 18 17 33 38.3–.19 36.86N 37.39E 5 3.1
DDA II 18 17 33 38.1 36.90N 37.33E 14 3.1
NSSC II 18 17 33 41.0–1.7 37.01N 36.89E 42–19 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=32.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=127.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=9.6km s-min=20.8km az=-1.0.
ISC II 18 21 00 17.2–.00 35.52N–.02 35.93E–.03 19–2 106 0-3
ISCJB II 18 21 00 17.6–.44 35.50N–.02 35.95E–.04 18–4 **¶16494628**
CSEM II 18 21 00 17.2–.14 35.50N 35.95E 12 2.3L
NSSC II 18 21 00 17.6–1.2 35.52N 35.95E 16–3 2.3L,1.6
DDA II 18 21 00 18.4 35.64N 35.90E 26 3.5,1.6
ISK II 18 21 00 19.4 35.64N 35.92E 5 3.2,1.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=2.5km az=172.4.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.4km az=82.0.
NSSC Error ellipse: s-maj=2.0km s-min=4.4km az=-1.0.
DDA Event type ke.
ISC II 20 13 03 23.5–2.5 36.76N–.10 39.35E–.04 4–18 20 1-2
CSEM II 20 13 03 26.1–.59 36.84N 39.40E 2 2.7 **¶16494672**
DDA II 20 13 03 28.5 36.85N 39.23E 28 2.7
ISK II 20 13 03 29.2 37.74N 39.41E 23 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=5.7km az=169.0.
DDA Event type ke.
ISC II 21 14 44 59.6–.92 36.79N–.03 37.01E–.03 6–6 46 0-2
ISK II 21 14 44 57.6 36.77N 37.04E 5 2.7 **¶16494707**
ISCJB II 21 14 44 59.6–.47 36.79N–.03 36.99E–.03 5–4 2.7
CSEM II 21 14 44 59.5–.15 36.79N 37.00E 5 2.6
DDA II 21 14 44 59.8 36.75N 37.04E 8 2.6
NSSC II 21 14 45 00.2–1.2 36.73N 37.02E 0–10 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.4km az=138.1.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.6km az=135.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=13.2km s-min=11.0km az=-1.0.
ISC II 22 08 09 39.0–1.0 33.78N–.03 35.75E–.04 7–12 26 0-2
ISCJB II 22 08 09 38.8–.62 33.77N–.03 35.77E–.05 1–10 **¶16506120**
CSEM II 22 08 09 38.7–.13 33.77N 35.75E 2 2.5L
NSSC II 22 08 09 38.9–1.2 33.76N 35.77E 2–14 1.2L
GRAL II 22 08 09 39.2–.29 33.78N 35.78E 4–8 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.0km az=163.3.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=81.0.
NSSC Error ellipse: s-maj=9.0km s-min=27.3km az=-1.0.
GRAL Error ellipse: s-maj=0.8km s-min=2.5km az=-1.0.
ISC II 23 04 25 30.2–1.1 33.12N–.03 35.47E–.03 7–10 38 0-2
ISCJB II 23 04 25 29.8–.63 33.12N–.03 35.47E–.04 3–6 **¶16506121**
CSEM II 23 04 25 29.8–.23 33.12N 35.45E 8 2.7L
NSSC II 23 04 25 30.7–1.4 33.11N 35.55E 0–7 1.3L
GRAL II 23 04 25 30.8–.36 33.12N 35.47E 0–4 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=5.2km az=175.2.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=71.0.
NSSC Error ellipse: s-maj=3.6km s-min=12.7km az=-1.0.
GRAL Error ellipse: s-maj=0.8km s-min=1.1km az=-1.0.
ISC II 23 23 39 22.3–.95 36.96N–.02 36.70E–.02 9–8 107 0-4
ISCJB II 23 23 39 21.9–.45 36.95N–.02 36.69E–.02 3–3 **¶16494829**
ISK II 23 23 39 21.3 36.97N 36.71E 11 3.0
CSEM II 23 23 39 22.2–.13 36.96N 36.69E 5 2.5L
NSSC II 23 23 39 22.3–1.8 36.89N 36.97E 4–12 2.5L,1.3
DDA II 23 23 39 22.3 36.98N 36.69E 2 3.1,1.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=1.6.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=121.0.
NSSC Error ellipse: s-maj=19.0km s-min=10.8km az=-1.0.
DDA Event type ke.
NSSC II 27 09 23 29.3–1.2 34.41N 36.64E 17–5 1.6L,0.9
CSEM II 27 09 23 29.3 34.41N 36.64E 16 1.6L,0.9 **¶601710591**
NSSC Error ellipse: s-maj=3.9km s-min=6.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 27 11 49 34.1–1.3 36.25N–.02 37.06E–.04 0–12 44 0-2
NSSC II 27 11 49 32.7–1.2 36.31N 37.12E 4–8 1.9L,1.1 **¶16494907**
ISCJB II 27 11 49 34.7–.84 36.27N–.03 37.02E–.05 5–6 1.9L,1.1
CSEM II 27 11 49 34.4–.35 36.25N 37.04E 5 3.1,1.1
DDA II 27 11 49 36.8 36.36N 37.02E 10 3.1,1.1
ISK II 27 11 49 36.1 36.31N 36.93E 8 2.7,1.1
ISC Event type ke.
NSSC Error ellipse: s-maj=3.5km s-min=9.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.5km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.5km az=124.0.
DDA Event type ke.
ISC III 01 16 41 56.5–.85 33.78N–.02 35.69E–.03 13–6 61 0-2
NSSC III 01 16 41 56.6–1.8 33.77N 35.68E 4–5 1.9L **¶601614705**
CSEM III 01 16 41 57.1–.18 33.78N 35.72E 5 3.1L
GRAL III 01 16 41 57.5–.27 33.79N 35.77E 2–8 3.1
ISCJB III 01 16 41 57.2–.42 33.79N–.02 35.73E–.04 5–4 3.1
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 01 23 06 36.1–.83 33.81N–.02 35.77E–.03 16–6 48 0-2
NSSC III 01 23 06 35.4–2.1 33.85N 35.67E 4–8 1.5L **¶601614704**
CSEM III 01 23 06 36.2–.31 33.83N 35.69E 12 2.9L
ISCJB III 01 23 06 36.8–.43 33.83N–.02 35.74E–.06 12–5 2.9L
GRAL III 01 23 06 37.6–.24 33.79N 35.79E 4–6 2.9
ISC Event type ke.
NSSC Error ellipse: s-maj=3.1km s-min=9.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=4.2km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.6km az=172.2.
GRAL Error ellipse: s-maj=0.5km s-min=1.4km az=-1.0.
NSSC III 02 10 32 48.1–2.0 34.41N 36.68E 5–7 1.8L
CSEM III 02 10 32 47.3–.13 34.42N 36.73E 5 1.8L **¶601710634**
NSSC Error ellipse: s-maj=2.9km s-min=5.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=81.0.
ISC III 02 16 34 28.7–1.3 34.71N–.02 36.97E–.05 5–11 91 1-5
ISK III 02 16 34 27.8 34.74N 37.03E 3 3.7 **¶16495004**
GII III 02 16 34 27.5–.00 34.96N 37.06E 4–0 2.4
CSEM III 02 16 34 29.9–.21 34.79N 36.93E 2 3.2L
GRAL III 02 16 34 33.7–.30 34.62N 36.77E 2–3 3.2
DDA III 02 16 34 39.4 36.35N 35.14E 7 3.2
ISC Event type ke.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=3.3km az=111.0.
GRAL Error ellipse: s-maj=4.9km s-min=3.0km az=-1.0.
ISC III 03 16 09 32.2–1.1 34.38N–.03 36.70E–.03 8–9 41 0-4
NSSC III 03 16 09 32.0–1.4 34.44N 36.69E 6–5 2.0L,1.4 **¶601614709**
ISCJB III 03 16 09 32.2–.56 34.41N–.02 36.68E–.03 5–4 2.0L,1.4
CSEM III 03 16 09 33.1–.70 34.30N 36.64E 10 2.9L,1.4
GRAL III 03 16 09 33.4–.31 34.37N 36.68E 0–74 2.9,1.4
ISC Event type ke.
NSSC Error ellipse: s-maj=1.9km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=12.9.
CSEM Event type ke. Error ellipse: s-maj=20.3km s-min=6.9km az=115.0.
GRAL Error ellipse: s-maj=4.0km s-min=7.0km az=-1.0.
ISC III 03 22 28 16.6–.97 36.60N–.02 36.46E–.02 7–9 66 0-3
ISK III 03 22 28 15.6 36.58N 36.43E 5 2.7 **¶16495044**
ISCJB III 03 22 28 16.3–.39 36.58N–.02 36.46E–.02 0–4 2.7
DDA III 03 22 28 16.4 36.60N 36.46E 6 2.7
NSSC III 03 22 28 16.0–1.3 36.61N 36.46E 4–6 2.0L
CSEM III 03 22 28 17.0–.15 36.59N 36.45E 5 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=41.5.
NSSC Error ellipse: s-maj=9.6km s-min=8.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=141.0.
ISC III 04 15 22 56.2–.94 34.08N–.03 35.78E–.03 16–7 41 0-3
ISCJB III 04 15 22 55.8–.74 34.16N–.02 35.71E–.05 14–5 **¶601614711**
NSSC III 04 15 22 55.4–2.4 34.17N 35.78E 4–7 1.8L,1.5
CSEM III 04 15 22 58.3–.49 34.01N 35.77E 5 2.8L,1.5
GRAL III 04 15 22 58.6–.25 34.08N 35.67E 5–1 2.8,1.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=3.8km az=9.9.
NSSC Error ellipse: s-maj=3.7km s-min=7.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=7.7km az=120.0.
GRAL Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
ISC III 06 14 46 11.6–.98 33.93N–.03 36.28E–.04 32–9 29 0-2
NSSC III 06 14 46 11.1–1.5 33.86N 36.60E 41–9 1.5L,1.1 **¶601614715**
CSEM III 06 14 46 13.7–.11 33.97N 36.18E 10 3.0L,1.1
ISCJB III 06 14 46 13.0–.76 34.00N–.04 36.17E–.06 28–6 3.0L,1.1
GRAL III 06 14 46 14.4–.27 33.98N 36.16E 14–5 3.0,1.1
ISC Event type ke.
NSSC Error ellipse: s-maj=3.9km s-min=11.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=4.9km az=31.3.
GRAL Error ellipse: s-maj=2.9km s-min=1.4km az=-1.0.
ISC III 08 01 28 18.5–1.2 36.62N–.03 36.45E–.04 1–14 28 0-2
ISCJB III 08 01 28 18.2–.68 36.64N–.04 36.37E–.07 11–7 **¶16495138**
CSEM III 08 01 28 18.4–.27 36.61N 36.42E 2 2.7
ISK III 08 01 28 18.0 36.63N 36.37E 12 2.5
DDA III 08 01 28 23.9 36.89N 36.86E 7 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.7km az=23.8.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.5km az=139.0.
ISC III 09 00 02 16.8–1.0 33.79N–.03 35.83E–.03 14–9 30 0-1
CSEM III 09 00 02 17.3–.13 33.78N 35.84E 8 2.6L **¶601614717**
ISCJB III 09 00 02 17.6–.65 33.78N–.03 35.87E–.04 6–9 2.6L
GRAL III 09 00 02 17.9–.32 33.79N 35.90E 0–75 2.6
NSSC III 09 00 02 18.3–.86 33.76N 35.90E 6–6 1.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=5.1km az=164.3.
GRAL Error ellipse: s-maj=1.5km s-min=1.7km az=-1.0.
NSSC Error ellipse: s-maj=2.6km s-min=5.0km az=-1.0.
ISC III 09 00 28 51.2–.99 36.58N–.02 36.42E–.02 8–10 59 0-2
ISK III 09 00 28 51.7 36.61N 36.43E 6 2.8 **¶16495162**
DDA III 09 00 28 51.6 36.61N 36.43E 7 2.8
CSEM III 09 00 28 52.1–.17 36.58N 36.44E 2 2.0L
NSSC III 09 00 28 52.2–1.3 36.55N 36.55E 12–4 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.0km az=124.0.
NSSC Error ellipse: s-maj=6.0km s-min=7.2km az=-1.0.
ISC III 12 09 49 58.8–.89 35.98N–.03 36.30E–.02 17–6 76 0-3
NSSC III 12 09 49 58.7–.95 35.98N 36.32E 22–3 2.6L,0.8 **¶16495246**
ISK III 12 09 49 58.4 36.00N 36.23E 13 2.9,0.8
CSEM III 12 09 49 58.5–.17 35.97N 36.30E 12 3.0L,0.8
DDA III 12 09 49 58.3 36.06N 36.22E 26 3.0L,0.8
ISCJB III 12 09 49 58.9–.45 35.97N–.03 36.30E–.03 19–3 3.0L,0.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 12 11 25 36.2–1.4 36.36N–.04 36.95E–.04 9–11 34 0-2
DDA III 12 11 25 35.9 36.31N 37.06E 7 **¶16495248**
CSEM III 12 11 25 36.7–.44 36.40N 36.95E 19–1 1.5L
ISK III 12 11 25 41.8 36.78N 36.47E 16 2.6
ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=12.4km s-min=6.5km az=138.0.
NSSC III 12 13 52 05.4–1.1 33.79N 36.89E 9–6 1.7L
CSEM III 12 13 52 04.7 33.80N 36.88E 0 1.7L ¶601710720
NSSC Error ellipse: s-maj=2.8km s-min=3.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 13 10 34 02.7–1.1 34.39N–.02 36.72E–.03 7–10 51 0-2
GRAL III 13 10 33 59.9–.37 34.46N 36.94E 0–8 2.9 ¶601614719
CSEM III 13 10 34 03.2–.19 34.40N 36.66E 5 2.4L
ISCJB III 13 10 34 03.4–.54 34.40N–.02 36.73E–.03 8–4 2.4L
NSSC III 13 10 34 04.2–1.3 34.41N 36.78E 12–5 2.4L,1.5
ISC Event type ke.
GRAL Error ellipse: s-maj=6.1km s-min=4.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=99.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.8km az=5.9.
NSSC Error ellipse: s-maj=1.9km s-min=4.9km az=-1.0.
ISC III 13 11 26 01.0–1.1 33.78N–.03 35.75E–.04 7–14 24 0-2
CSEM III 13 11 26 01.5 33.78N 35.77E 0 2.8L ¶601614718
GRAL III 13 11 26 01.5–.29 33.78N 35.77E 0–19 2.8
NSSC III 13 11 26 01.5–.99 33.72N 35.68E 5–10 1.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=0.6km s-min=1.0km az=-1.0.
NSSC Error ellipse: s-maj=5.4km s-min=7.9km az=-1.0.
ISC III 13 21 37 58.5–.95 35.88N–.05 40.50E–.04 11–9 27 0-3
CSEM III 13 21 37 57.0–.65 35.76N 40.72E 20 2.6L ¶601582418
NSSC III 13 21 37 57.6–.63 35.77N 40.68E 22–3 2.6L,1.4
DDA III 13 21 37 57.4 35.79N 40.65E 31 2.6L,1.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.2km s-min=12.9km az=138.0.
NSSC Error ellipse: s-maj=3.6km s-min=4.5km az=-1.0.
ISC III 14 23 50 13.5–2.7 36.7N–.20 36.4E–.10 11 13 1-1
CSEM III 14 23 50 13.1 36.72N 36.55E 19 2.7 ¶16495322
ISK III 14 23 50 13.1 36.72N 36.55E 19 2.7
DDA III 14 23 50 18.5 38.06N 36.53E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 15 18 05 31.0–.85 33.70N–.02 35.80E–.03 12–7 45 0-2
CSEM III 15 18 05 31.5–.15 33.69N 35.81E 2 2.8L ¶601614721
GRAL III 15 18 05 31.8–.29 33.69N 35.82E 0–44 2.8
ISCJB III 15 18 05 31.3–.51 33.70N–.02 35.82E–.04 2–5 2.8
NSSC III 15 18 05 32.4–1.2 33.69N 35.86E 7–5 1.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=78.0.
GRAL Error ellipse: s-maj=1.2km s-min=1.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=163.0.
NSSC Error ellipse: s-maj=2.0km s-min=6.3km az=-1.0.
NSSC III 16 10 09 45.5–2.0 35.13N 36.71E 14–4 1.7L
CSEM III 16 10 09 45.6 35.12N 36.68E 17 1.6L ¶601710759
NSSC Error ellipse: s-maj=2.9km s-min=5.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 16 16 38 34.3–.84 33.75N–.02 35.76E–.03 13–7 55 0-2
CSEM III 16 16 38 35.0–.18 33.76N 35.76E 5 2.8L ¶601614724
NSSC III 16 16 38 35.6–1.5 33.76N 35.83E 3–4 1.4L,1.0
ISCJB III 16 16 38 35.2–.46 33.77N–.02 35.78E–.04 5–5 1.4L,1.0
GRAL III 16 16 38 35.7–.31 33.79N 35.76E 5–6 2.8,1.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=93.0.
NSSC Error ellipse: s-maj=2.3km s-min=6.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.7km az=164.1.
GRAL Error ellipse: s-maj=0.7km s-min=1.9km az=-1.0.
ISC III 16 16 44 27.9–.79 34.51N–.02 36.39E–.03 13–4 55 0-2
CSEM III 16 16 44 28.4–.15 34.50N 36.35E 2 1.8L ¶601614723
NSSC III 16 16 44 28.6–2.5 34.52N 36.41E 7–4 1.8L,0.8
GRAL III 16 16 44 28.4–.35 34.52N 36.39E 0–88 3.0,0.8
ISCJB III 16 16 44 28.5–.42 34.50N–.02 36.37E–.04 8–3 3.0,0.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 17 18 54 25.8–.76 35.72N–.01 36.27E–.02 15–5 3.4b 223 0-38
GII III 17 18 54 17.8–.00 36.18N 36.55E 11–0 2.8 ¶16334563
ISK III 17 18 54 23.6 35.68N 36.25E 10 3.6L
DDA III 17 18 54 23.4 35.74N 36.46E 12 3.6L
IDC III 17 18 54 24.5–1.4 35.70N 36.02E 0 3.5s,3.5
NSSC III 17 18 54 25.3–2.5 35.73N 36.25E 15–4 3.7L,3.5
ISCJB III 17 18 54 25.1–.40 35.71N–.01 36.25E–.02 14–3 3.4s,3.3b
CSEM III 17 18 54 25.4–.09 35.71N 36.25E 10 3.7L,3.3b
NIC III 17 18 54 27.4–.30 35.37N 36.27E 16 4.3b,4.0L
ISC Event type ke.
GII Event type ke.
IDC Error ellipse: s-maj=26.4km s-min=11.7km az=86.0.
NSSC Error ellipse: s-maj=3.2km s-min=6.4km az=-1.0. Moment Tensor Solution. NP1: ϕ_s338.00000°,δ40.00000°,λ-90.00000°.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=6.1.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=98.0.
ISC III 18 13 34 14.3–.94 33.77N–.02 35.97E–.03 9–9 49 0-2
CSEM III 18 13 34 14.1–.13 33.76N 35.93E 10 2.9L ¶601614730
ISCJB III 18 13 34 14.6–.42 33.76N–.02 35.94E–.03 6–4 2.9L
GRAL III 18 13 34 14.7–.29 33.77N 35.99E 0–55 2.9
NSSC III 18 13 34 15.4–1.8 33.74N 35.98E 7–5 1.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=93.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=166.9.
GRAL Error ellipse: s-maj=1.0km s-min=1.4km az=-1.0.
NSSC Error ellipse: s-maj=2.5km s-min=6.1km az=-1.0.
ISC III 19 17 01 38.4–1.1 33.78N–.02 35.77E–.03 3–10 52 0-2
CSEM III 19 17 01 38.2–.16 33.77N 35.75E 0–2 2.9L ¶601614732
NSSC III 19 17 01 38.0–1.2 33.76N 35.72E 0–4 1.9L,1.5
GRAL III 19 17 01 38.4–.26 33.79N 35.78E 2–8 2.9,1.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.7km az=81.0.
NSSC Error ellipse: s-maj=2.1km s-min=5.5km az=-1.0.
GRAL Error ellipse: s-maj=0.6km s-min=1.4km az=-1.0.
ISC III 21 22 06 21.5–.95 33.77N–.02 35.71E–.04 13–7 32 0-2
CSEM III 21 22 06 21.9–.18 33.77N 35.73E 5 2.6L ¶601614739
NSSC III 21 22 06 22.8–.79 33.75N 35.79E 7–3 1.3L
GRAL III 21 22 06 22.4–.29 33.79N 35.78E 0–31 2.6
ISCJB III 21 22 06 22.1–.57 33.77N–.03 35.75E–.06 5–6 2.6
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 22 10 02 43.4–1.1 36.34N–.03 36.98E–.03 11–9 39 0-2
CSEM III 22 10 02 43.7–.30 36.34N 37.01E 2 3.1 ¶16495522
NSSC III 22 10 02 44.0–1.1 36.37N 36.94E 5–22 1.9L
ISK III 22 10 02 44.8 36.44N 36.88E 5 2.6
DDA III 22 10 02 45.7 36.46N 37.13E 6 2.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=4.2km az=128.0.
NSSC Error ellipse: s-maj=2.5km s-min=14.5km az=-1.0.
ISC III 22 10 18 00.1–1.0 36.32N–.03 36.96E–.04 15–8 38 0-1
ISCJB III 22 10 17 59.9–.93 36.30N–.04 37.00E–.06 7–8 ¶16495523
CSEM III 22 10 18 00.0–.24 36.28N 37.05E 5 1.8L
NSSC III 22 10 18 02.2–.72 36.23N 36.89E 0–7 1.8L
ISK III 22 10 18 03.0 36.44N 36.89E 5 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=3.4km az=38.9.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.0km az=123.0.
NSSC Error ellipse: s-maj=8.8km s-min=6.6km az=-1.0.
ISC III 25 02 08 47.2–1.2 36.60N–.05 36.96E–.07 12–10 21 0-1
CSEM III 25 02 08 46.9–.60 36.58N 37.00E 5 2.6 ¶16495652
ISK III 25 02 08 47.7 36.66N 36.84E 5 2.3
DDA III 25 02 08 47.9 36.64N 36.87E 7 2.3
ISCJB III 25 02 08 47.5–.91 36.63N–.05 36.90E–.07 7–19 2.3
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
GRAL III 26 20 04 58.5–.31 34.39N 36.32E 3–10 2.5
CSEM III 26 20 04 58.5 34.39N 36.32E 2 2.5L ¶601614748
GRAL Error ellipse: s-maj=4.2km s-min=2.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 27 09 54 21.3–1.2 36.34N–.05 37.05E–.04 13–9 26 0-1
CSEM III 27 09 54 20.8–.42 36.27N 37.08E 2 2.6 ¶16495728
DDA III 27 09 54 20.9 36.32N 37.10E 7 2.6
ISK III 27 09 54 21.8 37.01N 36.19E 4 2.5
ISCJB III 27 09 54 21.5–1.1 36.32N–.05 37.02E–.05 8–7 2.5
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 27 10 58 05.3–1.1 36.31N–.03 37.04E–.03 9–10 32 0-6
NSSC III 27 10 58 04.0–.31 36.53N 37.21E 29–4 1.6L ¶16495732
CSEM III 27 10 58 06.6–.74 36.26N 37.06E 10 2.5
DDA III 27 10 58 06.5 36.31N 37.07E 8 2.5
ISK III 27 10 58 09.7 36.89N 36.27E 17 2.5
ISC Event type ke.
NSSC Error ellipse: s-maj=4.7km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=19.2km s-min=8.5km az=151.0.
ISC III 28 00 08 43.3–.88 36.32N–.02 36.30E–.02 17–5 57 0-2
ISK III 28 00 08 42.8 36.32N 36.36E 14 2.5 ¶16495747
DDA III 28 00 08 43.6 36.37N 36.25E 6 2.5
CSEM III 28 00 08 43.8–.16 36.33N 36.32E 12 2.5
NSSC III 28 00 08 43.2–.51 36.35N 36.26E 4–3 1.6L,1.0
ISCJB III 28 00 08 43.9–.42 36.33N–.02 36.33E–.04 9–4 1.6L,1.0
ISC Event type ke.
DDA Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 28 09 58 10.7–1.1 34.43N–.02 36.74E–.03 3–10 56 0-2
CSEM III 28 09 58 11.3–.22 34.41N 36.72E 2 3.0L ¶601614813
NSSC III 28 09 58 11.0–1.4 34.43N 36.80E 0–4 2.2L
GRAL III 28 09 58 12.1–.34 34.44N 36.68E 2–4 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.3km az=97.0.
NSSC Error ellipse: s-maj=1.7km s-min=3.7km az=-1.0.
GRAL Error ellipse: s-maj=6.4km s-min=9.8km az=-1.0.
DDA III 28 09 58 31.8 36.50N 36.14E 14
¶602442779
ISC IV 01 11 11 47.7–1.2 33.79N–.02 35.76E–.03 2–11 43 0-2
NSSC IV 01 11 11 46.8–.81 33.78N 35.69E 0–2 2.2L,1.6 ¶601614815
ISCJB IV 01 11 11 47.4–.55 33.79N–.03 35.74E–.04 0–6 2.2L,1.6
CSEM IV 01 11 11 47.3–.19 33.79N 35.73E 2 3.2L,1.6
GRAL IV 01 11 11 47.9–.28 33.79N 35.77E 0–54 3.2,1.6
ISC Event type ke.
NSSC Error ellipse: s-maj=1.6km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.3km az=169.4.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.9km az=87.0.
GRAL Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
ISC IV 01 16 09 11.3–1.1 33.79N–.03 35.64E–.05 29–4 38 0-2
ISCJB IV 01 16 09 11.8–.64 33.75N–.04 35.64E–.05 26–4 ¶601614814
NSSC IV 01 16 09 11.1–.80 33.73N 35.59E 24–3 1.5L,1.3
CSEM IV 01 16 09 11.5–.24 33.76N 35.65E 23–1 2.8L,1.3
GRAL IV 01 16 09 13.0–.29 33.80N 35.76E 15–5 2.8,1.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=6.5km az=26.5.
NSSC Error ellipse: s-maj=2.7km s-min=6.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.7km az=80.0.
GRAL Error ellipse: s-maj=1.0km s-min=2.7km az=-1.0.
ISC IV 03 11 10 51.9–1.4 36.33N–.04 36.99E–.05 4–12 26 0-1
DDA IV 03 11 10 51.5 36.27N 37.09E 7 2.7 ¶601583118
CSEM IV 03 11 10 51.8–.34 36.33N 37.01E 2 1.7L
NSSC IV 03 11 10 51.6–.55 36.34N 36.99E 4–10 1.7L,1.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=3.9km az=123.0.
NSSC Error ellipse: s-maj=1.5km s-min=6.2km az=-1.0.
ISC IV 03 13 40 56.0–.99 36.93N–.03 36.62E–.03 15–9 34 0-2
ISCJB IV 03 13 40 56.4–.55 36.95N–.03 36.59E–.04 3–8 ¶16648029
CSEM IV 03 13 40 56.7–.12 36.94N 36.61E 8 2.2L
DDA IV 03 13 40 56.4 36.96N 36.63E 7 2.9
ISK IV 03 13 40 56.0 36.93N 36.65E 14 2.4,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.2km az=43.4.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=147.0.
ISC IV 04 03 46 18.4–.95 36.68N–.02 36.73E–.02 4–7 99 0-3
DDA IV 04 03 46 18.7 36.67N 36.68E 21 3.4 ¶16648071
NSSC IV 04 03 46 18.5–.72 36.70N 36.65E 2–1 2.8L,1.2
ISK IV 04 03 46 18.5 36.69N 36.62E 5 3.2,1.2
ISCJB IV 04 03 46 19.1–.37 36.67N–.02 36.67E–.02 3–3 3.2,1.2
CSEM IV 04 03 46 19.5–.14 36.66N 36.66E 2 2.8L,1.2
ISC Event type ke.
NSSC Error ellipse: s-maj=2.8km s-min=3.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=33.8.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=132.0.
ISC IV 05 11 17 03.3–.94 33.88N–.03 35.78E–.04 18–6 22 0-1
NSSC IV 05 11 17 01.7–1.2 33.90N 35.59E 6–7 1.8L ¶601614819
ISCJB IV 05 11 17 03.5–.86 33.89N–.03 35.67E–.08 19–7 1.8L
CSEM IV 05 11 17 04.5 33.88N 35.84E 0 2.9L
GRAL IV 05 11 17 04.5–.27 33.88N 35.84E 0–57 2.9
ISC Event type ke.
NSSC Error ellipse: s-maj=2.5km s-min=8.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=4.5km az=11.5.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=0.6km s-min=1.4km az=-1.0.
ISC IV 05 13 37 00.9–1.0 33.71N–.03 35.61E–.06 31–6 48 0-2
CSEM IV 05 13 37 00.4–.32 33.75N 35.59E 30 2.9L ¶601711039
NSSC IV 05 13 37 00.2–.73 33.73N 35.57E 36–2 1.7L
ISCJB IV 05 13 37 01.5–.56 33.69N–.03 35.63E–.05 29–4 1.7L
GRAL IV 05 13 37 03.4–.29 33.79N 35.79E 0–50 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.3km s-min=5.8km az=80.0.
NSSC Error ellipse: s-maj=3.0km s-min=6.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.9km az=170.1.
GRAL Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
ISC IV 06 10 59 49.1–.93 36.97N–.02 36.90E–.02 9–8 88 0-3
DDA IV 06 10 59 48.7 36.97N 36.92E 7 2.9 ¶16648198
ISK IV 06 10 59 48.3 36.97N 36.94E 2 2.7
ISCJB IV 06 10 59 49.2–.39 36.96N–.02 36.89E–.03 4–4 2.7
CSEM IV 06 10 59 49.5–.12 36.96N 36.90E 2 2.9
NSSC IV 06 10 59 51.5–1.2 36.86N 36.81E 1–3 2.3L,1.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=30.9.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=108.0.
NSSC Error ellipse: s-maj=6.3km s-min=7.3km az=-1.0.
ISC IV 07 00 17 11.9–.87 36.13N–.02 36.07E–.03 14–7 40 0-2
ISK IV 07 00 17 10.6 36.09N 36.08E 8 2.7 ¶16648233
ISCJB IV 07 00 17 11.9–.48 36.13N–.02 36.05E–.04 13–4 2.7
NSSC IV 07 00 17 11.7–1.2 36.15N 36.04E 12–4 1.6L,1.1
CSEM IV 07 00 17 12.0–.11 36.12N 36.08E 12 1.6L,1.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.0km az=174.7.
NSSC Error ellipse: s-maj=2.9km s-min=5.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.0km az=85.0.
ISC IV 07 00 24 50.9–1.2 36.33N–.03 36.98E–.04 11–9 30 0-1
CSEM IV 07 00 24 50.8–.20 36.35N 36.99E 8 1.3L ¶601583263
NSSC IV 07 00 24 51.0–.78 36.35N 36.94E 0–5 1.3L,0.9

DDA IV 07 00 24 51.3 36.35N 37.09E 5 2.7,0.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.1km az=127.0.
NSSC Error ellipse: s-maj=1.8km s-min=8.1km az=-1.0.
ISC IV 07 09 09 39.8–1.6 34.49N–.05 36.5E–.10 9–13 16 0-2
NSSC IV 07 09 09 42.5–1.6 34.49N 36.62E 30–13 2.0L **¶601614821**
CSEM IV 07 09 09 44.2 34.30N 36.50E 0 3.1L
GRAL IV 07 09 09 44.2–.31 34.30N 36.50E 0–21 3.1
ISC Event type ke.
NSSC Error ellipse: s-maj=5.9km s-min=43.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=1.9km s-min=3.0km az=-1.0.
ISC IV 08 15 38 25.9–.94 33.74N–.02 35.74E–.03 18–2 44 0-2
ISCJB IV 08 15 38 27.0–.46 33.74N–.03 35.75E–.04 7–5 **¶601614823**
CSEM IV 08 15 38 26.8–.21 33.74N 35.75E 2 2.8L
GRAL IV 08 15 38 27.1–.29 33.78N 35.78E 6–9 2.8
NSSC IV 08 15 38 27.1–1.2 33.67N 35.71E 18–8 1.7L,1.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=143.1.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=76.0.
GRAL Error ellipse: s-maj=1.1km s-min=1.9km az=-1.0.
NSSC Error ellipse: s-maj=2.8km s-min=7.3km az=-1.0.
ISC IV 08 18 46 00.4–.89 34.15N–.02 36.41E–.04 14–6 30 0-2
NSSC IV 08 18 45 59.5–1.4 34.13N 36.75E 2–6 1.9L,1.2 **¶601614822**
ISCJB IV 08 18 46 01.4–.53 34.14N–.03 36.35E–.05 9–4 1.9L,1.2
CSEM IV 08 18 46 01.3–.12 34.15N 36.38E 5 2.9L,1.2
GRAL IV 08 18 46 01.0–.30 34.32N 36.42E 14–2 2.9,1.2
ISC Event type ke.
NSSC Error ellipse: s-maj=2.9km s-min=8.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.5km az=173.4.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=108.0.
GRAL Error ellipse: s-maj=4.6km s-min=3.2km az=-1.0.
ISC IV 09 14 39 17.2–.89 33.62N–.02 35.91E–.03 14–6 42 0-1
ISCJB IV 09 14 39 17.9–.47 33.61N–.03 35.93E–.03 7–5 **¶601614824**
CSEM IV 09 14 39 17.5–.18 33.62N 35.92E 8 2.8L
GRAL IV 09 14 39 17.8–.25 33.62N 36.00E 0–13 2.8
NSSC IV 09 14 39 17.7–1.4 33.60N 35.92E 7–5 1.8L,0.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.3km az=172.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=69.0.
GRAL Error ellipse: s-maj=0.9km s-min=1.7km az=-1.0.
NSSC Error ellipse: s-maj=2.5km s-min=5.6km az=-1.0.
ISC IV 10 10 31 31.7–.99 33.39N–.03 35.96E–.04 28–9 28 0-1
NSSC IV 10 10 31 30.3–.42 33.40N 35.91E 7–4 1.5L,1.4 **¶601614825**
ISCJB IV 10 10 31 31.4–.89 33.40N–.04 35.87E–.08 38–11 1.5L,1.4
CSEM IV 10 10 31 31.6–.34 33.40N 36.04E 10 2.8L,1.4
GRAL IV 10 10 31 35.0–.28 33.60N 35.99E 13–1 2.8,1.4
ISC Event type ke.
NSSC Error ellipse: s-maj=1.3km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.5km az=160.2.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.0km az=60.0.
GRAL Error ellipse: s-maj=0.9km s-min=2.3km az=-1.0.
ISC IV 13 09 57 43.0–1.3 34.39N–.02 36.69E–.04 3–11 50 0-4
CSEM IV 13 09 57 42.7–.31 34.43N 36.69E 2 3.1L **¶601583436**
GRAL IV 13 09 57 42.3–.29 34.40N 36.81E 0–7 3.1
NSSC IV 13 09 57 43.3–.52 34.44N 36.75E 1–2 2.3L
DDA IV 13 09 57 44.2 34.50N 36.42E 2 3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.2km az=98.0.
GRAL Error ellipse: s-maj=6.4km s-min=2.7km az=-1.0.
NSSC Error ellipse: s-maj=1.1km s-min=3.3km az=-1.0.
DDA IV 13 10 55 59.8 36.47N 40.24E 7 2.7L
CSEM IV 13 10 55 59.3–.15 36.41N 40.33E 5 2.4L **¶601583437**
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=80.0.
ISC IV 15 12 00 15.2–.87 33.77N–.02 35.74E–.03 9–8 48 0-2
ISCJB IV 15 12 00 15.5–.56 33.77N–.02 35.76E–.04 1–5 **¶601614830**
GRAL IV 15 12 00 15.5–.29 33.78N 35.75E 10–4 2.8
CSEM IV 15 12 00 15.4–.17 33.76N 35.75E 2 2.8L
NSSC IV 15 12 00 15.9–.53 33.75N 35.78E 0–1 1.8L,1.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.3km az=156.3.
GRAL Error ellipse: s-maj=0.8km s-min=2.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=77.0.
NSSC Error ellipse: s-maj=0.9km s-min=2.3km az=-1.0.
GRAL IV 15 14 16 11.3–.29 33.79N 35.75E 9–4 2.8
CSEM IV 15 14 16 11.3 33.79N 35.75E 9 2.8L **¶601614829**
GRAL Error ellipse: s-maj=0.8km s-min=2.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 16 13 10 29.4–1.3 36.57N–.04 36.29E–.04 2–14 19 0-2
CSEM IV 16 13 10 30.1 36.57N 36.31E 7 2.7 **¶601583540**
DDA IV 16 13 10 30.1 36.57N 36.31E 7 2.7
ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 18 09 07 49.7–1.2 34.41N–.02 36.76E–.05 5–11 46 1-4
NSSC IV 18 09 07 49.7–1.1 34.42N 36.80E 0–4 2.3L **¶601583594**
CSEM IV 18 09 07 50.3–.29 34.41N 36.71E 2 2.3L
DDA IV 18 09 08 14.7 34.55N 36.35E 11 3.3L
ISC Event type ke.
NSSC Error ellipse: s-maj=1.6km s-min=5.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=4.4km az=90.0.
ISC IV 18 10 00 37.7–1.5 33.37N–.03 35.52E–.06 5–10 34 0-2
CSEM IV 18 10 00 37.5–.25 33.38N 35.48E 2 3.0L **¶601614832**
NSSC IV 18 10 00 37.9–1.1 33.38N 35.52E 0–6 2.0L
GRAL IV 18 10 00 39.0–.42 33.39N 35.57E 0–113 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.3km az=74.0.
NSSC Error ellipse: s-maj=3.6km s-min=9.4km az=-1.0.
GRAL Error ellipse: s-maj=3.3km s-min=6.9km az=-1.0.
ISC IV 19 14 18 17.2–1.6 36.10N–.05 36.11E–.07 2–12 23 0-1
NSSC IV 19 14 18 17.7–2.2 36.12N 36.14E 0–10 1.7L,0.4 **¶601583647**
CSEM IV 19 14 18 17.5–.93 36.12N 36.02E 8 1.7L,0.4
DDA IV 19 14 18 24.2 36.34N 36.22E 7 2.6,0.4
ISC Event type ke.
NSSC Error ellipse: s-maj=5.7km s-min=8.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=23.4km s-min=9.1km az=114.0.
ISC IV 20 13 31 13.4–1.1 33.85N–.02 35.78E–.03 14–13 48 0-2
NSSC IV 20 13 31 14.0–1.3 33.86N 35.81E 0–3 1.8L,1.3 **¶601614835**
GRAL IV 20 13 31 14.7–.30 33.88N 35.84E 0–75 2.8,1.3
CSEM IV 20 13 31 14.2–.13 33.86N 35.82E 2 2.8L,1.3
ISC Event type ke.
NSSC Error ellipse: s-maj=1.9km s-min=4.8km az=-1.0.
GRAL Error ellipse: s-maj=1.0km s-min=1.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=99.0.
ISC IV 21 10 25 25.4–.95 33.77N–.02 35.91E–.04 16–10 28 0-1
CSEM IV 21 10 25 25.8–.13 33.77N 35.94E 2 2.9L **¶601614837**
NSSC IV 21 10 25 25.7–1.1 33.79N 35.98E 0–5 1.6L
GRAL IV 21 10 25 26.5–.29 33.76N 35.91E 9–12 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=94.0.
NSSC Error ellipse: s-maj=2.0km s-min=9.6km az=-1.0.
GRAL Error ellipse: s-maj=1.6km s-min=2.2km az=-1.0.
ISC IV 22 14 33 31.5–1.0 33.78N–.02 35.80E–.03 4–11 51 0-2
ISCJB IV 22 14 33 31.5–.49 33.77N–.02 35.78E–.03 0–5 **¶601614838**
CSEM IV 22 14 33 31.6–.16 33.76N 35.77E 2 2.7L
GRAL IV 22 14 33 31.8–.30 33.78N 35.80E 0–28 2.7
NSSC IV 22 14 33 31.6–1.7 33.76N 35.81E 0–4 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=147.9.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=71.0.
GRAL Error ellipse: s-maj=1.0km s-min=1.9km az=-1.0.
NSSC Error ellipse: s-maj=2.6km s-min=6.7km az=-1.0.

ISC IV 24 00 59 39.7–1.2 33.85N–.03 35.87E–.03 18–3 28 0-2
ISCJB IV 24 00 59 41.2–.51 33.82N–.03 35.84E–.04 10–6 **¶601614842**
CSEM IV 24 00 59 41.2–.22 33.82N 35.85E 5 2.9L
NSSC IV 24 00 59 42.4–.96 33.78N 35.91E 14–4 1.5L
GRAL IV 24 00 59 42.1–.27 33.86N 35.83E 0–52 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.1km az=163.2.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.4km az=94.0.
NSSC Error ellipse: s-maj=2.2km s-min=5.6km az=-1.0.
GRAL Error ellipse: s-maj=1.1km s-min=2.4km az=-1.0.
ISC IV 24 03 57 28.3–1.4 36.28N–.03 40.84E–.04 4–11 49 0-4
ISN IV 24 03 57 24.7–1.9 36.40N 40.77E 50–316 3.2L **¶16649277**
CSEM IV 24 03 57 29.8–.42 36.29N 40.85E 10 2.1L
NSSC IV 24 03 57 29.2–.57 36.28N 40.72E 40–10 2.1L
ISK IV 24 03 57 31.8 36.53N 41.02E 6 2.9
DDA IV 24 03 58 16.6 36.20N 40.87E 9 3.2L
ISC Event type ke.
ISN Error ellipse: s-maj=0.5km s-min=35.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=6.7km az=118.0.
NSSC Error ellipse: s-maj=1.7km s-min=3.7km az=-1.0.
ISC IV 24 22 31 53.6–1.0 36.42N–.03 36.42E–.03 13–10 38 0-2
ISCJB IV 24 22 31 53.7–.45 36.41N–.03 36.45E–.04 5–5 **¶16649304**
CSEM IV 24 22 31 53.7–.17 36.40N 36.47E 15 2.5
ISK IV 24 22 31 53.9 36.49N 36.41E 10 2.5
DDA IV 24 22 31 53.6 36.37N 36.50E 7 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=3.2km az=32.2.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=119.0.
ISC IV 25 07 59 03.7–.95 36.26N–.02 36.10E–.02 7–9 47 0-2
ISCJB IV 25 07 59 03.8–.47 36.27N–.02 36.12E–.03 3–6 **¶16649354**
DDA IV 25 07 59 03.2 36.27N 36.07E 7 2.6
NSSC IV 25 07 59 03.5–.56 36.29N 36.11E 4–10 2.0L
CSEM IV 25 07 59 03.8–.13 36.25N 36.13E 5 2.5
ISK IV 25 07 59 03.7 36.30N 36.12E 4 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.6km az=26.6.
NSSC Error ellipse: s-maj=1.6km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=79.0.
ISC IV 25 19 59 39.2–1.1 36.64N–.03 36.50E–.02 4–11 43 0-2
DDA IV 25 19 59 39.2 36.67N 36.45E 7 3.0L **¶16649370**
CSEM IV 25 19 59 39.9–.21 36.58N 36.47E 2 2.5
ISK IV 25 19 59 39.5 36.59N 36.46E 4 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=152.0.
ISC IV 26 03 59 32.1–1.1 33.27N–.03 35.64E–.04 15–9 28 0-1
ISCJB IV 26 03 59 32.7–.78 33.26N–.04 35.66E–.05 10–8 **¶601614846**
CSEM IV 26 03 59 32.8–.16 33.28N 35.68E 10 1.2L
GRAL IV 26 03 59 32.6–.31 33.21N 35.74E 0–49 2.9
NSSC IV 26 03 59 34.0–.75 33.24N 35.74E 6–5 1.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=7.0km az=39.2.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=66.0.
GRAL Error ellipse: s-maj=1.8km s-min=2.7km az=-1.0.
NSSC Error ellipse: s-maj=2.1km s-min=5.6km az=-1.0.
ISC IV 26 14 06 44.9–.97 33.79N–.03 35.74E–.03 16–8 46 0-2
ISCJB IV 26 14 06 45.6–.52 33.79N–.03 35.78E–.04 8–5 **¶601614845**
CSEM IV 26 14 06 45.5–.26 33.79N 35.75E 6–3 3.0L
NSSC IV 26 14 06 45.7–1.8 33.79N 35.77E 8–7 1.9L
GRAL IV 26 14 06 45.9–.28 33.80N 35.79E 9–6 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=4.4km az=14.6.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.6km az=95.0.
NSSC Error ellipse: s-maj=4.4km s-min=9.3km az=-1.0.
GRAL Error ellipse: s-maj=1.0km s-min=1.9km az=-1.0.
ISC IV 28 03 01 51.6–.88 33.30N–.02 35.41E–.02 14–7 86 0-3
ISCJB IV 28 03 01 51.6–.42 33.30N–.02 35.42E–.03 3–4 **¶601614855**
CSEM IV 28 03 01 51.8–.12 33.31N 35.42E 2 2.4
NSSC IV 28 03 01 51.7–1.3 33.29N 35.44E 0–4 2.2L,1.3
GRAL IV 28 03 01 52.5–.26 33.30N 35.41E 0–2 3.1,1.3
GII IV 28 03 01 52.2–.00 33.19N 35.41E 1 2.4,1.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.5km az=34.5.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.5km az=124.0.
NSSC Error ellipse: s-maj=3.0km s-min=7.0km az=-1.0.
GRAL Error ellipse: s-maj=0.7km s-min=1.1km az=-1.0.
GII Event type ke.
ISC IV 28 11 23 23.8–2.3 34.58N–.10 36.26E–.05 7–10 28 0-2
CSEM IV 28 11 23 24.8–.57 34.53N 36.25E 10 3.0L **¶601614854**
NSSC IV 28 11 23 24.5–1.8 34.51N 36.20E 0–10 2.2L
GRAL IV 28 11 23 24.2–.31 34.60N 36.37E 7–3 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=6.7km az=173.0.
NSSC Error ellipse: s-maj=11.8km s-min=9.6km az=-1.0.
GRAL Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0.
ISC IV 28 12 34 24.5–.89 33.33N–.02 35.43E–.03 15–7 70 0-3
ISCJB IV 28 12 34 24.5–.47 33.32N–.02 35.41E–.04 10–3 **¶601614853**
CSEM IV 28 12 34 24.7–.14 33.32N 35.42E 10 2.0
GRAL IV 28 12 34 25.3–.26 33.32N 35.38E 1–2 2.8
GII IV 28 12 34 25.0–.00 33.25N 35.42E 4 2.0
NSSC IV 28 12 34 26.2–1.2 33.30N 35.50E 18–8 1.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=2.8km az=30.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=118.0.
GRAL Error ellipse: s-maj=0.7km s-min=1.6km az=-1.0.
GII Event type ke.
NSSC Error ellipse: s-maj=4.3km s-min=11.2km az=-1.0.
ISC IV 28 20 29 02.9–1.2 36.00N–.04 40.53E–.04 6–11 34 0-3
NSSC IV 28 20 29 02.8–1.2 36.01N 40.53E 9–6 2.7L **¶16649515**
ISCJB IV 28 20 29 03.4–1.0 36.02N–.05 40.53E–.06 4–8 2.7L
CSEM IV 28 20 29 03.4–.47 36.00N 40.54E 2 2.7L
ISK IV 28 20 29 05.0 36.22N 40.69E 5 3.7
ISC Event type ke.
NSSC Error ellipse: s-maj=3.6km s-min=5.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=7.6km az=26.3.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=8.7km az=177.0.
ISC IV 30 11 32 55.5–.94 36.17N–.03 36.77E–.03 16–7 43 0-2
NSSC IV 30 11 32 55.9–1.3 36.20N 36.74E 0–5 1.9L **¶601583987**
DDA IV 30 11 32 55.4 36.17N 36.73E 6 2.8
CSEM IV 30 11 32 56.5–.22 36.22N 36.67E 10 2.1L
ISC Event type ke.
NSSC Error ellipse: s-maj=3.1km s-min=7.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=3.5km az=112.0.
GRAL V 01 16 32 49.7–.29 33.79N 35.77E 3–20 2.7
CSEM V 01 16 32 49.7 33.79N 35.77E 2 2.7L **¶601614865**
GRAL Error ellipse: s-maj=1.2km s-min=2.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NSSC V 02 15 29 26.0–1.5 34.49N 36.23E 6–7 1.8L
CSEM V 02 15 29 25.5–.18 34.48N 36.24E 2 1.8L **¶601711297**
NSSC Error ellipse: s-maj=2.2km s-min=6.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.3km az=80.0.
ISC V 02 17 28 14.9–.83 36.16N–.02 36.06E–.02 12–6 119 0-4
ISK V 02 17 28 12.5 36.05N 36.05E 10 2.9L **¶16853146**
DDA V 02 17 28 13.3 36.10N 36.04E 26 3.1
ISCJB V 02 17 28 14.7–.44 36.14N–.02 36.03E–.02 10–3 3.1
CSEM V 02 17 28 14.7–.09 36.15N 36.04E 10 3.1
NSSC V 02 17 28 14.7–1.1 36.23N 36.05E 14–11 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=158.6.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=72.0.
NSSC Error ellipse: s-maj=12.6km s-min=12.8km az=-1.0.
ISC V 04 22 38 43.0–.86 33.77N–.02 35.71E–.04 17–6 33 0-2

CSEM V 04 22 38 42.8–.33 33.77N 35.72E 8 2.8L ¶601614878
NSSC V 04 22 38 42.2–.92 33.73N 35.58E 11–4 1.0,1.0L
GRAL V 04 22 38 42.9–.27 33.80N 35.80E 13–3 2.8,1.0L
ISCJB V 04 22 38 43.3–.87 33.73N–.03 35.64E–.09 19–7 2.8,1.0L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 06 22 59 13.8–.91 33.79N–.03 35.77E–.04 18–7 26 0-2
NSSC V 06 22 59 13.7–1.5 33.82N 35.70E 4–15 1.1,1.1L ¶601614882
CSEM V 06 22 59 14.8–.18 33.80N 35.77E 2 2.8L,1.1L
GRAL V 06 22 59 15.3–.29 33.79N 35.80E 0–64 2.8,1.1L
ISC Event type ke.
NSSC Error ellipse: s-maj=6.0km s-min=23.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=79.0.
GRAL Error ellipse: s-maj=1.2km s-min=1.7km az=-1.0.
NSSC V 07 13 11 12.5–2.2 33.74N 36.67E 14–11 0.1L
CSEM V 07 13 11 11.8–.22 33.73N 36.78E 10 0.1L ¶601711328
NSSC Error ellipse: s-maj=5.4km s-min=11.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=97.0.
ISK V 08 10 04 53.8 36.10N 37.42E 12 2.8
CSEM V 08 10 04 53.8 36.10N 37.42E 12 2.8 ¶16853381
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 08 14 43 16.1–.91 33.78N–.02 35.79E–.05 11–9 33 0-2
GRAL V 08 14 43 16.7–.27 33.79N 35.77E 8–3 3.0 ¶601614885
CSEM V 08 14 43 16.5–.17 33.77N 35.77E 2 3.0L
NSSC V 08 14 43 19.6–1.5 33.80N 36.07E 10–9 1.6L,1.1
ISC Event type ke.
GRAL Error ellipse: s-maj=0.7km s-min=1.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.5km az=88.0.
NSSC Error ellipse: s-maj=3.7km s-min=14.7km az=-1.0.
ISC V 09 07 21 11.8–.93 36.93N–.03 36.05E–.02 14–7 46 0-2
ISK V 09 07 21 10.9 36.95N 36.06E 14 2.4 ¶16853413
ISCJB V 09 07 21 11.9–.49 36.92N–.03 36.04E–.02 4–5 2.4
DDA V 09 07 21 12.2 36.93N 36.05E 7 2.8
CSEM V 09 07 21 12.0–.21 36.91N 36.05E 15 2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=179.5.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=10.0.
ISC V 09 09 09 26.7–1.0 34.37N–.02 36.66E–.03 11–9 54 0-2
NSSC V 09 09 09 26.9–1.6 34.37N 36.66E 0–4 1.9L ¶601614890
ISCJB V 09 09 09 27.2–.61 34.37N–.02 36.66E–.04 3–5 1.9L
CSEM V 09 09 09 27.1–.14 34.37N 36.66E 2 2.8L
GRAL V 09 09 09 28.3–.30 34.34N 36.68E 3–62 2.8
ISC Event type ke.
NSSC Error ellipse: s-maj=2.1km s-min=4.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.1km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=88.0.
GRAL Error ellipse: s-maj=1.9km s-min=3.0km az=-1.0.
ISC V 10 15 14 45.8–.91 34.20N–.02 36.38E–.03 16–8 38 0-2
GRAL V 10 15 14 44.9–.31 34.29N 36.49E 0–194 3.0 ¶601614891
ISCJB V 10 15 14 46.3–.53 34.20N–.02 36.38E–.03 5–5 3.0
CSEM V 10 15 14 46.4–.13 34.19N 36.35E 5 1.8L
NSSC V 10 15 14 46.4–1.6 34.20N 36.40E 2–5 1.8L
ISC Event type ke.
GRAL Error ellipse: s-maj=1.9km s-min=7.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=4.2km az=16.6.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=134.0.
NSSC Error ellipse: s-maj=2.7km s-min=5.1km az=-1.0.
ISC V 11 10 14 09.8–2.7 34.6N–.10 36.59E–.07 17–8 30 0-2
GRAL V 11 10 14 10.9–.30 34.43N 36.80E 0–4 2.9 ¶601614894
NSSC V 11 10 14 10.3–1.1 34.48N 36.79E 0–8 2.2L,1.5
CSEM V 11 10 14 10.0–.76 34.51N 36.73E 2 2.9L,1.5
ISC Event type ke.
GRAL Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.
NSSC Error ellipse: s-maj=10.8km s-min=6.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=12.6km s-min=8.2km az=13.0.
ISC V 13 22 28 56.5–1.1 36.42N–.03 36.59E–.04 11–9 36 0-2
NSSC V 13 22 28 50.2–1.4 36.79N 36.49E 71–18 2.3L,0.6 ¶601584469
CSEM V 13 22 28 59.2 36.65N 36.51E 7 2.6,0.6
DDA V 13 22 28 59.2 36.65N 36.51E 7 2.6,0.6
ISC Event type ke.
NSSC Error ellipse: s-maj=8.7km s-min=10.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 14 14 08 00.4–.88 33.58N–.03 35.72E–.04 13–6 51 0-2
CSEM V 14 14 08 00.9–.18 33.58N 35.71E 8 2.7L ¶601614899
GRAL V 14 14 08 00.4–.26 33.57N 35.80E 18–2 2.7
ISCJB V 14 14 08 01.4–.51 33.60N–.03 35.74E–.04 10–3 2.7
NSSC V 14 14 08 01.6–1.4 33.59N 35.74E 10–5 2.1L,1.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=62.0.
GRAL Error ellipse: s-maj=1.8km s-min=2.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.3km az=149.2.
NSSC Error ellipse: s-maj=2.4km s-min=5.9km az=-1.0.
ISC V 14 17 09 10.6–1.1 36.34N–.03 36.99E–.03 12–9 32 0-1
DDA V 14 17 09 11.2 36.34N 37.06E 7 2.8 ¶601584500
NSSC V 14 17 09 11.3–1.2 36.36N 36.93E 1–5 1.7L
CSEM V 14 17 09 11.0–.15 36.34N 36.98E 8 1.7L
ISC Event type ke.
NSSC Error ellipse: s-maj=2.9km s-min=9.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=132.0.
ISC V 15 11 26 27.4–1.2 36.15N–.03 36.71E–.04 15–12 31 0-2
ISCJB V 15 11 26 28.4–.49 36.16N–.04 36.7E–.10 21–14 ¶601584534
CSEM V 15 11 26 28.1–.25 36.19N 36.61E 20 1.7L
NSSC V 15 11 26 28.0–1.6 36.21N 36.51E 28–7 1.7L
DDA V 15 11 26 29.1 36.29N 36.58E 7 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.1km s-min=4.1km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=4.7km az=117.0.
NSSC Error ellipse: s-maj=16.9km s-min=88.5km az=-1.0.
ISC V 15 12 00 02.8–.93 33.78N–.02 35.79E–.04 8–9 38 0-2
ISCJB V 15 12 00 02.7–.52 33.78N–.03 35.78E–.09 6–8 ¶601614904
CSEM V 15 12 00 02.5–.13 33.78N 35.77E 5 2.8L
NSSC V 15 12 00 02.3–1.2 33.78N 35.77E 2–4 1.5L,1.2
GRAL V 15 12 00 03.4–.29 33.79N 35.79E 0–37 2.8,1.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=3.7km az=161.2.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=1.9km az=86.0.
NSSC Error ellipse: s-maj=2.2km s-min=8.1km az=-1.0.
GRAL Error ellipse: s-maj=0.8km s-min=2.2km az=-1.0.
ISC V 15 20 13 47.5–1.6 36.33N–.04 40.86E–.04 9–11 41 1-4
ISK V 15 20 13 44.2 36.15N 40.86E 8 3.3 ¶16853604
DDA V 15 20 13 47.0 36.38N 41.00E 7 3.0L
CSEM V 15 20 13 48.2–.51 36.37N 40.85E 10 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=9.2km az=138.0.
ISC V 16 13 18 21.2–1.1 33.83N–.03 35.65E–.06 25–8 37 0-2
NSSC V 16 13 18 19.6–2.0 33.89N 35.56E 4–10 2.3L ¶601614908
CSEM V 16 13 18 22.8–.28 33.81N 35.73E 5 3.1L
GRAL V 16 13 18 23.5–.26 33.79N 35.77E 6–7 3.1
ISC Event type ke.
NSSC Error ellipse: s-maj=4.2km s-min=11.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.0km az=85.0.
GRAL Error ellipse: s-maj=0.9km s-min=1.5km az=-1.0.
ISC V 16 15 11 53.6–1.3 34.45N–.02 36.73E–.05 6–11 34 0-2
GRAL V 16 15 11 52.9–.33 34.44N 36.82E 2–6 3.0 ¶601614907
NSSC V 16 15 11 53.9–1.4 34.48N 36.78E 1–5 2.1L
ISCJB V 16 15 11 54.1–1.2 34.45N–.02 36.70E–.07 3–8 2.1L
CSEM V 16 15 11 54.7–.20 34.44N 36.61E 8 2.1L
ISC Event type ke.
GRAL Error ellipse: s-maj=7.0km s-min=8.1km az=-1.0.
NSSC Error ellipse: s-maj=2.4km s-min=8.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=4.1km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=2.9km az=90.0.
ISC V 16 16 49 13.1–.95 33.77N–.02 35.73E–.03 16–7 41 0-2
NSSC V 16 16 49 12.5–1.3 33.77N 35.66E 4–5 1.6L ¶601614906
ISCJB V 16 16 49 13.7–.56 33.77N–.03 35.74E–.05 7–5 1.6L
CSEM V 16 16 49 13.2–.19 33.77N 35.72E 8 2.7L
GRAL V 16 16 49 14.3–.29 33.79N 35.78E 0–62 2.7
ISC Event type ke.
NSSC Error ellipse: s-maj=2.8km s-min=7.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.2km az=9.7.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.7km az=99.0.
GRAL Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC V 18 13 17 47.2–1.0 33.79N–.02 35.97E–.03 11–10 30 0-1
NSSC V 18 13 17 46.4–1.1 33.81N 35.96E 1–5 1.8L ¶601614913
ISCJB V 18 13 17 47.1–.57 33.80N–.03 35.96E–.04 2–11 1.8L
CSEM V 18 13 17 47.1–.19 33.80N 35.96E 2 2.8L
GRAL V 18 13 17 47.6–.29 33.77N 35.96E 9–9 2.8
ISC Event type ke.
NSSC Error ellipse: s-maj=4.4km s-min=8.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=179.4.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=77.0.
GRAL Error ellipse: s-maj=1.0km s-min=2.8km az=-1.0.
ISC V 20 15 45 50.0–1.0 33.78N–.02 35.68E–.03 13–9 42 0-2
NSSC V 20 15 45 49.4–1.8 33.77N 35.64E 0–8 1.6L ¶601614920
CSEM V 20 15 45 50.3–.35 33.78N 35.66E 8 2.8L
GRAL V 20 15 45 50.3–.28 33.79N 35.78E 14–4 2.8
ISCJB V 20 15 45 51.1–.54 33.77N–.03 35.72E–.05 7–5 2.8
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC V 21 13 48 45.9–.88 33.76N–.02 35.85E–.05 13–9 46 0-2
CSEM V 21 13 48 45.8–.15 33.75N 35.79E 10 2.8L ¶601711406
ISCJB V 21 13 48 46.1–.46 33.75N–.02 35.83E–.05 10–6 2.8L
GRAL V 21 13 48 46.5–.28 33.75N 35.84E 9–5 2.8
NSSC V 21 13 48 46.5–1.2 33.74N 35.85E 15–5 1.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=98.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.0km az=168.2.
GRAL Error ellipse: s-maj=0.8km s-min=1.9km az=-1.0.
NSSC Error ellipse: s-maj=2.7km s-min=7.0km az=-1.0.
ISC V 21 18 41 12.5–.97 33.74N–.03 36.06E–.03 16–9 36 0-1
NSSC V 21 18 41 12.6–.95 33.74N 36.06E 0–3 1.3L ¶601614922
ISCJB V 21 18 41 13.1–.47 33.75N–.02 36.06E–.04 5–6 1.3L
GRAL V 21 18 41 13.4–.28 33.72N 36.10E 2–21 2.7
CSEM V 21 18 41 13.0–.13 33.74N 36.07E 5 1.3L
ISC Event type ke.
NSSC Error ellipse: s-maj=1.6km s-min=3.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=2.2.
GRAL Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=88.0.
ISC V 22 00 07 46.7–.86 33.32N–.02 35.43E–.03 15–7 86 0-3
ISCJB V 22 00 07 46.9–.40 33.32N–.02 35.41E–.03 5–4 ¶601614934
CSEM V 22 00 07 47.1–.10 33.32N 35.41E 5 2.1
GII V 22 00 07 47.0–.00 33.23N 35.44E 1 2.1
NSSC V 22 00 07 47.7–1.1 33.28N 35.43E 11–4 2.4L
GRAL V 22 00 07 47.9–.23 33.32N 35.41E 0–3 3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.5km az=25.1.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.4km az=111.0.
GII Event type ke.
NSSC Error ellipse: s-maj=2.5km s-min=5.9km az=-1.0.
GRAL Error ellipse: s-maj=0.8km s-min=1.0km az=-1.0.
ISC V 22 01 16 41.4–.83 33.31N–.02 35.44E–.02 15–6 87 0-3
ISCJB V 22 01 16 40.7–.38 33.32N–.02 35.40E–.03 7–3 ¶601614933
NSSC V 22 01 16 40.6–1.0 33.14N 35.43E 32–7 2.3L
GRAL V 22 01 16 41.7–.18 33.32N 35.40E 3–1 3.0
GII V 22 01 16 41.0–.00 33.22N 35.43E 1 2.2
CSEM V 22 01 16 41.0–.10 33.33N 35.40E 5 2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=2.5km az=27.7.
NSSC Error ellipse: s-maj=4.5km s-min=8.5km az=-1.0.
GRAL Error ellipse: s-maj=0.3km s-min=0.7km az=-1.0.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.3km az=116.0.
ISC V 22 17 33 43.4–.89 33.78N–.02 35.76E–.03 9–9 53 0-2
NSSC V 22 17 33 43.1–1.1 33.75N 35.72E 1–3 1.7L,1.3 ¶601614931
CSEM V 22 17 33 43.5–.17 33.77N 35.74E 2 3.0L,1.3
GRAL V 22 17 33 43.9–.26 33.79N 35.76E 4–9 3.0,1.3
ISC Event type ke.
NSSC Error ellipse: s-maj=1.9km s-min=4.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=96.0.
GRAL Error ellipse: s-maj=0.6km s-min=1.3km az=-1.0.
ISC V 23 00 53 37.8–.95 33.86N–.02 35.79E–.03 19–3 60 0-2
CSEM V 23 00 53 37.9–.15 33.86N 35.75E 15 3.2L ¶601711424
ISCJB V 23 00 53 38.3–.48 33.86N–.02 35.74E–.04 18–5 3.2L
NSSC V 23 00 53 38.6–1.4 33.85N 35.80E 12–7 1.5L
GRAL V 23 00 53 39.0–.29 33.86N 35.81E 11–3 3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.7km az=3.2.
NSSC Error ellipse: s-maj=2.6km s-min=8.5km az=-1.0.
GRAL Error ellipse: s-maj=0.7km s-min=1.5km az=-1.0.
ISC V 23 10 29 37.2–1.1 34.48N–.02 36.24E–.03 6–9 57 0-2
GRAL V 23 10 29 36.2–.28 34.59N 36.38E 2–2 2.9 ¶601614940
ISCJB V 23 10 29 37.5–.63 34.50N–.02 36.28E–.04 2–5 2.9
CSEM V 23 10 29 37.6–.16 34.50N 36.26E 2 2.9L
NSSC V 23 10 29 37.5–1.4 34.49N 36.28E 0–3 2.5L
ISC Event type ke.
GRAL Error ellipse: s-maj=1.9km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=6.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=100.0.
NSSC Error ellipse: s-maj=1.7km s-min=3.8km az=-1.0.
ISC V 24 11 09 24.8–1.3 36.71N–.02 36.28E–.02 1–11 60 0-4
NSSC V 24 11 09 20.1–.99 37.35N 35.86E 12–35 2.5L ¶602385967
ISK V 24 11 09 25.8 36.73N 36.27E 4 2.6L
DDA V 24 11 10 05.5 36.74N 36.24E 14 3.5
CSEM V 24 11 10 05.5 36.74N 36.24E 14 3.5
ISC Event type ke.
NSSC Error ellipse: s-maj=30.3km s-min=33.4km az=-1.0.
DDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 22 40 37.1–1.2 33.44N–.03 35.60E–.04 7–9 37 0-2
ISCJB V 25 22 40 36.4–.92 33.43N–.03 35.56E–.05 1–7 ¶601614950
CSEM V 25 22 40 36.8–.29 33.44N 35.58E 2 1.2L
NSSC V 25 22 40 36.6–1.1 33.44N 35.59E 0–3 1.2L,1.1
GRAL V 25 22 40 36.0–.29 33.38N 35.61E 13–2 2.8,1.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=5.0km az=163.6.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=72.0.
NSSC Error ellipse: s-maj=2.8km s-min=5.5km az=-1.0.
GRAL Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.
ISC V 26 08 24 35.1–1.1 34.33N–.05 36.63E–.03 10–9 28 0-2
ISCJB V 26 08 24 35.1–.86 34.38N–.05 36.64E–.04 10–5 ¶601614954
NSSC V 26 08 24 35.4–1.4 34.37N 36.67E 11–6 2.1L
CSEM V 26 08 24 35.2–.27 34.37N 36.63E 8 2.8L
GRAL V 26 08 24 38.0–.30 34.31N 36.56E 1–13 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=5.6km az=177.7.
NSSC Error ellipse: s-maj=4.9km s-min=5.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=2.0.
GRAL Error ellipse: s-maj=1.7km s-min=2.8km az=-1.0.

ISC V 28 13 01 17.6–1.5 34.59N–.03 36.69E–.04 9–13 32 0-2
CSEM V 28 13 01 18.9–.48 34.59N 36.64E 12 2.9L ¶601614960
NSSC V 28 13 01 18.5–3.0 34.58N 36.62E 5–18 2.2L
GRAL V 28 13 01 20.6–.28 34.41N 36.78E 4–3 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=7.8km az=57.0.
NSSC Error ellipse: s-maj=10.3km s-min=20.9km az=-1.0.
GRAL Error ellipse: s-maj=3.6km s-min=2.4km az=-1.0.
ISC V 28 22 17 58.7–.99 33.31N–.03 35.41E–.04 23–10 37 0-2
NSSC V 28 22 17 52.2–4.0 33.57N 35.06E 24–20 1.8L,1.4 ¶601614958
CSEM V 28 22 17 58.6–.56 33.29N 35.38E 25–5 3.0L,1.4
ISCJB V 28 22 17 59.2–.71 33.31N–.03 35.37E–.06 23–6 3.0L,1.4
GRAL V 28 22 18 00.8–.18 33.31N 35.39E 2–2 3.0,1.4
ISC Event type ke.
NSSC Error ellipse: s-maj=12.6km s-min=28.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.9km s-min=9.5km az=95.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.5km az=16.6.
GRAL Error ellipse: s-maj=0.3km s-min=0.7km az=-1.0.
ISC V 29 19 17 32.6–.85 33.02N–.01 36.02E–.02 11–7 201 0-9
HLW V 29 19 17 29.5 33.36N 36.12E 20–16 3.6L ¶16594417
CSEM V 29 19 17 32.6–.10 33.01N 36.00E 8 3.4
NSSC V 29 19 17 32.8–2.0 33.00N 36.08E 4–7 3.3L,1.7
ISCJB V 29 19 17 32.5–.34 33.02N–.01 35.95E–.02 14–2 3.3L,1.7
JSO V 29 19 17 32.5–.45 33.05N 35.99E 0–164 3.3L,1.7
GII V 29 19 17 33.2–.00 33.01N 35.88E 7 3.4,1.7
GRAL V 29 19 17 34.2–.55 33.03N 35.92E 4–2 3.4,1.7
NIC V 29 19 17 34.0–.20 33.05N 35.95E 13 3.3L,1.7
ISK V 29 19 17 36.0 33.36N 35.57E 4 4.3,1.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=101.0.
NSSC Error ellipse: s-maj=3.0km s-min=5.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.0km az=7.5.
JSO Error ellipse: s-maj=80.4km s-min=38.9km az=-1.0.
GII Event type ke.
GRAL Error ellipse: s-maj=1.5km s-min=3.0km az=-1.0.
ISC V 29 19 19 33.6–1.1 33.04N–.02 35.90E–.05 8–8 54 0-3
ISCJB V 29 19 19 33.4–.84 33.04N–.02 35.91E–.07 8–5 ¶601614962
CSEM V 29 19 19 33.6–.16 33.04N 35.93E 8 2.8
GII V 29 19 19 34.3–.20 33.02N 35.85E 11–0 2.8
GRAL V 29 19 19 35.8–.22 33.09N 35.85E 0–4 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=3.4km az=8.7.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=1.5km az=103.0.
GII Event type ke.
GRAL Error ellipse: s-maj=0.9km s-min=1.9km az=-1.0.
ISC V 29 21 20 18.8–1.5 33.03N–.06 35.96E–.07 8–11 31 0-2
CSEM V 29 21 20 19.6–.34 33.03N 35.99E 2 2.8L ¶601614961
ISCJB V 29 21 20 20.3–1.8 32.90N–.09 35.8E–.10 15–22 2.8L
NSSC V 29 21 20 20.2–.82 33.01N 36.03E 7–8 1.6L,1.3
GRAL V 29 21 20 25.0–.27 33.29N 35.96E 2–13 2.8,1.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=2.9km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=22.1km s-min=5.7km az=136.3.
NSSC Error ellipse: s-maj=6.3km s-min=8.7km az=-1.0.
GRAL Error ellipse: s-maj=2.6km s-min=3.1km az=-1.0.
ISC V 30 09 05 51.3–1.5 34.35N–.08 36.86E–.05 8–13 28 0-2
ISCJB V 30 09 05 50.5–1.7 34.43N–.07 36.91E–.07 8–7 ¶601614967
GRAL V 30 09 05 51.6–.29 34.48N 36.85E 0–7 3.0
CSEM V 30 09 05 53.4–.52 34.34N 36.73E 15 1.9L
NSSC V 30 09 05 54.4–1.5 34.19N 36.89E 0–11 1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=8.4km az=25.0.
GRAL Error ellipse: s-maj=6.9km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.0km s-min=8.4km az=170.0.
NSSC Error ellipse: s-maj=9.0km s-min=5.0km az=-1.0.
ISC V 31 12 15 42.3–.98 34.43N–.02 36.69E–.02 10–9 53 0-2
GRAL V 31 12 15 40.7–.33 34.47N 36.84E 0–7 3.0 ¶601615034
ISCJB V 31 12 15 43.0–.55 34.40N–.02 36.71E–.03 5–4 3.0
NSSC V 31 12 15 42.8–1.3 34.39N 36.73E 2–3 2.1L
CSEM V 31 12 15 42.9–.18 34.40N 36.69E 2 2.1L
ISC Event type ke.
GRAL Error ellipse: s-maj=4.3km s-min=3.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=19.8.
NSSC Error ellipse: s-maj=1.7km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=114.0.
ISC VI 03 14 07 15.4–1.7 35.81N–.05 36.61E–.10 17–14 10 0-2
NSSC VI 03 14 07 11.8–1.3 35.90N 37.76E 0–13 1.5L ¶601586427
ISCJB VI 03 14 07 15.9–2.1 35.81N–.04 36.6E–.30 23–33 1.5L
DDA VI 03 14 07 18.1 35.99N 36.56E 6 2.7L
ISC Event type ke.
NSSC Error ellipse: s-maj=9.8km s-min=7.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=45.9km s-min=6.2km az=175.6.
ISC VI 04 11 41 46.5–.99 33.99N–.03 36.22E–.04 6 19 0-2
ISCJB VI 04 11 41 47.2–.57 33.97N–.03 36.19E–.05 6 ¶601615041
CSEM VI 04 11 41 47.4 33.99N 36.23E 7 2.8L
NSSC VI 04 11 41 47.5–.79 33.94N 36.23E 0–5 1.7L
GRAL VI 04 11 41 47.4–.30 33.99N 36.23E 7–14 2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=4.5.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NSSC Error ellipse: s-maj=2.7km s-min=4.7km az=-1.0.
GRAL Error ellipse: s-maj=1.0km s-min=5.9km az=-1.0.
ISC VI 04 23 02 40.2–1.2 33.83N–.03 35.72E–.08 26–10 23 0-1
NSSC VI 04 23 02 38.4–1.4 33.88N 35.55E 0–14 1.6L ¶601615040
GRAL VI 04 23 02 39.9–.26 33.81N 35.77E 28–2 2.9
CSEM VI 04 23 02 39.9 33.81N 35.77E 28 2.9L
ISCJB VI 04 23 02 40.5–1.1 33.84N–.04 35.66E–.08 24–7 2.9L
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC VI 06 15 15 00.4–.87 33.80N–.03 35.78E–.06 16–8 22 0-2
ISCJB VI 06 15 15 00.8–.64 33.78N–.03 35.70E–.07 17–6 ¶601615042
CSEM VI 06 15 15 00.8 33.79N 35.78E 15 2.7L
NSSC VI 06 15 15 00.9–1.3 33.77N 35.72E 11–5 1.5L
GRAL VI 06 15 15 00.8–.27 33.79N 35.78E 15–3 2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=4.9km az=166.1.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NSSC Error ellipse: s-maj=2.9km s-min=7.3km az=-1.0.
GRAL Error ellipse: s-maj=0.7km s-min=2.5km az=-1.0.
ISC VI 07 04 16 50.7–2.8 33.13N–.08 35.3E–.10 29–13 22 1-2
NSSC VI 07 04 16 53.7–1.1 33.03N 35.76E 103–9 1.6L ¶601615045
CSEM VI 07 04 16 57.3 33.36N 35.44E 6 2.9L
GRAL VI 07 04 16 57.3–.29 33.36N 35.44E 6–3 2.9
ISC Event type ke.
NSSC Error ellipse: s-maj=4.8km s-min=11.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=2.4km s-min=2.7km az=-1.0.
ISC VI 07 09 07 51.3–1.2 34.43N–.03 36.63E–.04 18–9 25 0-2
NSSC VI 07 09 07 51.6–1.4 34.45N 36.65E 14–4 2.3L ¶601615044
ISCJB VI 07 09 07 52.4–.73 34.43N–.04 36.66E–.05 20–8 2.3L
CSEM VI 07 09 07 53.9–.18 34.42N 36.56E 27–1 3.2L
GRAL VI 07 09 07 54.7–.30 34.47N 36.54E 29–3 3.2
ISC Event type ke.
NSSC Error ellipse: s-maj=3.2km s-min=5.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=5.7km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=1.3km az=105.0.
GRAL Error ellipse: s-maj=8.6km s-min=5.7km az=-1.0.
ISC VI 08 21 26 33.6–1.1 33.27N–.03 35.75E–.04 14–7 30 0-2
ISCJB VI 08 21 26 33.6–.80 33.28N–.03 35.74E–.05 13–4 ¶601615047
NSSC VI 08 21 26 34.1–1.1 33.26N 35.79E 10–3 2.0L,0.8
GRAL VI 08 21 26 36.5–.29 33.39N 35.80E 10–1 2.9,0.8
CSEM VI 08 21 26 36.5 33.39N 35.80E 10 2.9L,0.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.7km az=159.8.
NSSC Error ellipse: s-maj=2.1km s-min=5.3km az=-1.0.
GRAL Error ellipse: s-maj=2.5km s-min=2.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL VI 09 09 39 06.3–.27 33.78N 35.78E 4–8 2.7
CSEM VI 09 09 39 06.3 33.78N 35.78E 3 2.7L ¶601615051
GRAL Error ellipse: s-maj=0.6km s-min=1.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NSSC VI 13 03 33 00.6–3.0 33.91N 35.89E 2–15 2.0L,1.7
¶603482792
NSSC Error ellipse: s-maj=6.4km s-min=21.3km az=-1.0.
GRAL VI 13 03 33 27.2–.26 33.87N 35.84E 0–20 3.1
CSEM VI 13 03 33 27.2 33.87N 35.84E 0 3.1L ¶601615075
GRAL Error ellipse: s-maj=0.7km s-min=1.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 13 20 28 43.3–1.1 33.89N–.03 35.85E–.03 3–10 57 0-2
GII VI 13 20 28 41.5–.00 33.91N 35.90E 1 2.0 ¶601615073
CSEM VI 13 20 28 43.1–.37 33.91N 35.84E 2 2.9L
GRAL VI 13 20 28 43.7–.27 33.87N 35.84E 5–8 2.9
NSSC VI 13 20 28 43.6–.80 33.85N 35.81E 0–5 1.7L
ISC Event type ke.
GII Event type ke.
CSEM Event type ke. Error ellipse: s-maj=14.0km s-min=5.6km az=96.0.
GRAL Error ellipse: s-maj=0.7km s-min=2.0km az=-1.0.
NSSC Error ellipse: s-maj=6.8km s-min=8.2km az=-1.0.
ISC VI 14 11 44 10.3–1.0 33.77N–.03 35.92E–.04 13–10 22 0-1
ISCJB VI 14 11 44 10.3–.64 33.77N–.04 35.92E–.05 9–7 ¶601615081
GRAL VI 14 11 44 10.8–.29 33.77N 35.94E 5–13 2.7
CSEM VI 14 11 44 10.8 33.77N 35.94E 4 2.7L
NSSC VI 14 11 44 10.8–1.1 33.75N 35.93E 9–5 1.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=43.9.
GRAL Error ellipse: s-maj=1.0km s-min=2.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NSSC Error ellipse: s-maj=6.7km s-min=6.2km az=-1.0.
ISC VI 15 09 50 41.5–.87 33.62N–.02 35.97E–.03 12–8 35 0-2
ISCJB VI 15 09 50 41.9–.42 33.63N–.02 35.95E–.03 5–4 ¶601615084
CSEM VI 15 09 50 41.5 33.59N 35.96E 15 3.0L
GRAL VI 15 09 50 41.5–.26 33.59N 35.96E 16–4 3.0
NSSC VI 15 09 50 42.5–1.5 33.61N 35.98E 6–5 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=153.6.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=2.2km s-min=1.4km az=-1.0.
NSSC Error ellipse: s-maj=2.3km s-min=4.7km az=-1.0.
ISC VI 15 13 45 32.0–1.1 33.87N–.03 35.84E–.04 5–13 26 0-2
GRAL VI 15 13 45 32.2–.28 33.88N 35.85E 3–14 2.8 ¶601615082
NSSC VI 15 13 45 32.8–1.3 33.83N 35.84E 0–4 1.8L,1.1
CSEM VI 15 13 45 32.2 33.88N 35.85E 2 2.8L,1.1
ISC Event type ke.
GRAL Error ellipse: s-maj=0.8km s-min=2.0km az=-1.0.
NSSC Error ellipse: s-maj=2.0km s-min=8.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 15 21 45 39.5–.98 36.98N–.03 36.06E–.02 15–8 35 0-18
CSEM VI 15 21 45 38.4–.43 37.04N 36.05E 5 2.6 ¶17555978
ISCJB VI 15 21 45 39.2–.56 36.98N–.04 36.08E–.03 3–6 2.6
ISK VI 15 21 45 39.0 36.99N 36.09E 4 2.6
DDA VI 15 21 45 39.0 36.97N 36.07E 7 2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=8.5km az=19.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=168.5.
ISC VI 16 13 52 22.3–1.2 33.87N–.03 35.83E–.04 1–12 25 0-2
CSEM VI 16 13 52 22.3 33.87N 35.84E 0 3.0L ¶601615087
GRAL VI 16 13 52 22.3–.26 33.87N 35.84E 0–37 3.0
NSSC VI 16 13 52 22.6–1.8 33.85N 35.86E 0–7 1.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=0.7km s-min=1.5km az=-1.0.
NSSC Error ellipse: s-maj=3.2km s-min=11.1km az=-1.0.
ISC VI 18 06 45 12.2–1.7 36.89N–.06 39.22E–.03 3–12 40 1-2
DDA VI 18 06 45 11.5 36.89N 39.22E 7 2.9 ¶17556054
ISK VI 18 06 45 12.4 36.98N 39.26E 2 3.0
CSEM VI 18 06 45 12.6–.38 36.92N 39.24E 2 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.5km az=175.0.
ISC VI 18 19 45 38.2–1.1 33.02N–.04 35.95E–.05 12–10 18 0-2
ISCJB VI 18 19 45 38.2–.70 33.02N–.03 35.95E–.05 10–6 ¶601615089
NSSC VI 18 19 45 38.5–.58 33.01N 35.98E 7–3 1.3L
GRAL VI 18 19 45 38.9–.32 33.01N 35.97E 0–7 2.6
CSEM VI 18 19 45 38.9 33.01N 35.97E 0 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.6km az=157.4.
NSSC Error ellipse: s-maj=1.3km s-min=2.3km az=-1.0.
GRAL Error ellipse: s-maj=3.2km s-min=6.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 20 10 00 09.9–2.4 35.13N–.05 35.2E–.10 19–6 16 1-2
NSSC VI 20 10 00 08.5–2.5 35.16N 35.17E 7–27 1.9L ¶601615100
GRAL VI 20 10 00 12.1–.29 35.06N 35.34E 8–4 3.1
ISC Event type ke.
NSSC Error ellipse: s-maj=6.2km s-min=31.8km az=-1.0.
GRAL Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0.
ISC VI 20 13 41 07.5–1.3 34.65N–.03 36.46E–.05 16–12 26 1-2
ISCJB VI 20 13 41 08.9–.62 34.67N–.03 36.39E–.07 20–7 ¶601615098
NSSC VI 20 13 41 08.4–1.2 34.65N 36.43E 8–5 1.7L
CSEM VI 20 13 41 08.3–.45 34.68N 36.42E 20 3.0L
GRAL VI 20 13 41 10.3–.28 34.68N 36.34E 20–10 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=4.3km az=1.5.
NSSC Error ellipse: s-maj=2.4km s-min=11.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=20.0km s-min=4.5km az=104.0.
GRAL Error ellipse: s-maj=2.7km s-min=6.4km az=-1.0.
ISC VI 21 15 54 19.8–1.0 36.36N–.03 36.83E–.05 17–9 30 0-2
DDA VI 21 15 54 19.7 36.37N 36.86E 7 2.8 ¶601587379
CSEM VI 21 15 54 19.7 36.37N 36.86E 7 2.8
ISCJB VI 21 15 54 20.5–.48 36.38N–.04 36.89E–.08 28–9 2.8
NSSC VI 21 15 54 20.3–1.5 36.40N 36.92E 23–8 2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=3.7km az=26.0.
NSSC Error ellipse: s-maj=4.4km s-min=9.7km az=-1.0.
ISC VI 24 23 06 59.9–.90 34.25N–.02 36.39E–.03 4–6 77 0-4
JSO VI 24 23 06 57.7–2.0 34.56N 36.71E 30–999 3.3 ¶601615111
IASPE VI 24 23 06 59.7–1.0 34.23N–.03 36.39E–.03 4–7 3.3
CSEM VI 24 23 06 59.5–.39 34.29N 36.35E 2 3.4L
NSSC VI 24 23 06 59.0–1.1 34.23N 36.42E 0–3 2.8L,1.0
GII VI 24 23 06 59.6–.00 34.21N 36.29E 1 2.2,1.0
GRAL VI 24 23 07 00.1–.30 34.26N 36.39E 0–5 3.4,1.0
ISC Event type ke.
JSO Error ellipse: s-maj=49.6km s-min=305.3km az=-1.0.
IASPE Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=123.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=6.3km az=83.0.
NSSC Error ellipse: s-maj=1.3km s-min=3.8km az=-1.0.
GII Event type ke.
GRAL Error ellipse: s-maj=1.3km s-min=1.4km az=-1.0.
ISC VI 24 23 49 15.1–1.1 33.16N–.02 35.52E–.03 5–10 75 0-4

ISCJB VI 24 23 49 15.5–.38 33.14N–.02 35.43E–.03 9–3 ¶601615110
CSEM VI 24 23 49 15.7–.14 33.15N 35.45E 5 2.2
GRAL VI 24 23 49 16.4–.28 33.11N 35.46E 0–3 3.1
NSSC VI 24 23 49 16.7–1.5 33.10N 35.54E 0–7 2.3L,1.4
GII VI 24 23 49 16.7–.00 32.98N 35.42E 1 2.2,1.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=23.8.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=2.5km az=103.0.
GRAL Error ellipse: s-maj=1.9km s-min=1.8km az=-1.0.
NSSC Error ellipse: s-maj=3.3km s-min=11.2km az=-1.0.
GII Event type ke.
ISC VI 25 11 06 56.6–1.5 33.32N–.05 35.78E–.05 5–11 22 0-2
ISCJB VI 25 11 06 56.1–1.1 33.31N–.04 35.75E–.06 3–6 ¶601615122
NSSC VI 25 11 06 56.3–.95 33.31N 35.78E 0–4 1.7L
GRAL VI 25 11 06 57.3–.32 33.33N 35.83E 0–36 2.8
CSEM VI 25 11 06 57.3 33.33N 35.83E 0 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=5.3km az=143.7.
NSSC Error ellipse: s-maj=2.4km s-min=5.9km az=-1.0.
GRAL Error ellipse: s-maj=4.5km s-min=3.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 25 17 42 22.1–.92 33.80N–.02 35.74E–.04 9–8 30 0-2
NSSC VI 25 17 42 19.6–1.3 33.78N 35.52E 3–6 1.8L ¶601615117
ISCJB VI 25 17 42 22.1–.55 33.79N–.02 35.69E–.05 5–7 1.8L
CSEM VI 25 17 42 22.3 33.80N 35.75E 8 3.0L
GRAL VI 25 17 42 22.3–.26 33.80N 35.75E 9–3 3.0
ISC Event type ke.
NSSC Error ellipse: s-maj=2.6km s-min=8.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.7km az=173.8.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=0.6km s-min=1.4km az=-1.0.
NSSC VI 26 09 00 09.4–1.4 35.00N 36.70E 10–5 1.8L
¶601711551
NSSC Error ellipse: s-maj=2.4km s-min=4.6km az=-1.0.
ISC VI 30 13 39 58.6–.93 33.79N–.03 35.77E–.04 8–11 25 0-1
ISCJB VI 30 13 39 58.8–.66 33.79N–.04 35.74E–.08 8–10 ¶601615146
NSSC VI 30 13 39 58.0–1.5 33.76N 35.63E 23–8 2.1L
CSEM VI 30 13 39 59.2 33.79N 35.77E 0 2.9L
GRAL VI 30 13 39 59.2–.26 33.79N 35.77E 0–15 2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=5.1km az=162.7.
NSSC Error ellipse: s-maj=4.9km s-min=13.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
GRAL Error ellipse: s-maj=0.6km s-min=1.2km az=-1.0.

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ISC I 02 13 14 17.7–1.2 36.80N–.03 43.25E–.02 6–8 3.9b 283 0-70
NSSC I 02 13 14 13.1–3.1 37.38N 43.54E 166–42 3.5L,2.7 ¶15902848
MOS I 02 13 14 16.7–1.7 36.63N 43.15E 12 4.0b,2.7
IDC I 02 13 14 16.7–.82 36.81N 43.20E 0 3.8,3.7
ISCJB I 02 13 14 17.6–.68 36.76N–.02 43.30E–.02 11–4 3.9b,3.5s
ISK I 02 13 14 18.7 36.88N 43.21E 10 4.1L,3.5s
AZER I 02 13 14 20.9–1.7 36.66N 43.27E 54–150 4.1L,3.5s
BJI I 02 13 14 20.4 36.70N 43.30E 38 4.8b,4.7b
CSEM I 02 13 14 20.3–.13 36.87N 43.20E 15 4.0b,4.7b
NEIC I 02 13 14 21.4–1.5 36.66N 43.28E 38–17 4.2b,4.7b
DDA I 02 13 14 21.5 37.10N 42.97E 5 4.1L,4.7b
TEH I 02 13 14 22.2 36.94N 43.40E 10 4.1L,4.7b
ISN I 02 13 14 29.6–2.5 36.39N 43.30E 0–8 3.6L,4.7b
ISC Event type ke.
NSSC Error ellipse: s-maj=27.9km s-min=34.7km az=-1.0.
MOS Error ellipse: s-maj=9.3km s-min=5.4km az=86.7.
IDC Error ellipse: s-maj=17.6km s-min=13.0km az=167.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=154.7.
AZER Error ellipse: s-maj=16.1km s-min=12.5km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=159.0.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=11.9km az=85.0.
DDA Event type ke.
ISN Error ellipse: s-maj=25.6km s-min=17.5km az=-1.0.
ISC I 04 22 54 41.6–1.3 36.39N–.04 41.23E–.04 4–15 23 1-2
NSSC I 04 22 54 39.4–1.4 36.28N 41.17E 86–13 1.8L ¶601608348
CSEM I 04 22 54 41.5–.47 36.37N 41.23E 5 1.8L
DDA I 04 22 54 47.2 36.74N 41.53E 6 2.9
ISC Event type ke.
NSSC Error ellipse: s-maj=6.6km s-min=13.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=7.3km az=140.0.
DDA Event type ke.
TEH I 25 17 08 57.5 34.13N 43.79E 18 2.5L
ISN I 25 17 08 54.4–93 34.02N 44.06E 0–999 2.6L ¶15998171
CSEM I 25 17 09 00.5–.44 33.69N 44.25E 15 2.6L
ISN Error ellipse: s-maj=2.7km s-min=1.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=12.3km s-min=5.6km az=88.0.
ISC I 30 16 51 35.8–1.9 36.41N–.05 41.84E–.03 11–14 52 1-3
ISCJB I 30 16 51 34.1–1.7 36.26N–.08 41.82E–.04 6–15 ¶16358480
CSEM I 30 16 51 34.2–.74 36.19N 41.84E 10 2.5L
ISK I 30 16 51 35.5 36.43N 41.86E 8 3.2
DDA I 30 16 51 35.4 36.42N 41.84E 16 3.2
NSSC I 30 16 51 35.1–1.5 36.43N 41.10E 152–11 2.5L,1.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=5.4km az=171.2.
CSEM Event type ke. Error ellipse: s-maj=19.3km s-min=8.3km az=167.0.
DDA Event type ke.
NSSC Error ellipse: s-maj=9.4km s-min=14.8km az=-1.0.
ISC II 12 16 12 38.3–1.9 33.8N–.40 45.0E–.10 10 10 1-4
ISN II 12 16 12 36.9–.48 33.92N 45.00E 1–3 3.1L ¶16358586
CSEM II 12 16 12 38.2–.52 34.16N 44.90E 5 3.1L
TEH II 12 16 12 41.4 33.96N 45.12E 7 3.1L
ISC Event type ke.
ISN Error ellipse: s-maj=3.8km s-min=1.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=14.0km s-min=7.8km az=146.0.
TEH II 12 16 33 41.1 34.22N 44.95E 17 2.6L
CSEM II 12 16 33 40.2–.77 34.26N 45.03E 2 2.5L ¶16358585
ISN II 12 16 33 41.4–.30 34.10N 44.87E 0 2.5L
CSEM Event type ke. Error ellipse: s-maj=30.4km s-min=5.4km az=144.0.
ISN Error ellipse: s-maj=2.7km s-min=1.6km az=-1.0.
TEH II 12 16 34 17.9 34.14N 44.94E 7 3.0L
ISN II 12 16 34 06.2–41 34.13N 44.91E 0–163 3.0L ¶16358589
CSEM II 12 16 34 15.6–.23 34.26N 44.87E 2 3.0L
ISN Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=3.1km az=146.0.
ISC III 04 13 08 24.7–1.3 36.48N–.05 42.62E–.04 10–11 45 1-3
NSSC III 04 13 08 24.9–1.6 36.70N 42.60E 0–91 2.6L ¶16495063
ISCJB III 04 13 08 25.5–1.2 36.54N–.05 42.64E–.07 2–10 2.6L
CSEM III 04 13 08 27.7–.48 36.57N 42.73E 20 2.9
ISK III 04 13 08 27.9 36.65N 42.72E 22 3.2
DDA III 04 13 08 29.9 36.65N 42.18E 7 3.2
ISC Event type ke.
NSSC Error ellipse: s-maj=24.6km s-min=170.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.0km az=23.9.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=6.2km az=140.0.
ISN III 15 13 54 39.0–.30 35.63N 44.67E 0 2.8L
TEH III 15 13 54 38.2 35.68N 44.75E 10 2.8L ¶16630577
ISN Error ellipse: s-maj=1.8km s-min=2.6km az=-1.0.
TEH III 17 20 51 37.1 34.17N 43.90E 18 3.0L
ISN III 17 20 51 35.3–.30 33.90N 43.22E 0 3.0L ¶16630640
ISN Error ellipse: s-maj=1.6km s-min=3.1km az=-1.0.
ISC III 22 11 03 41.4–2.5 36.7N–.10 42.54E–.04 12–14 18 1-2
ISK III 22 11 03 41.5 36.69N 42.50E 8 2.3 ¶16495528
ISCJB III 22 11 03 41.9–1.9 36.69N–.10 42.53E–.05 11–10 2.3
CSEM III 22 11 03 42.7–.72 36.71N 42.58E 15 2.3
DDA III 22 11 03 46.1 37.52N 42.41E 37 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=7.0km az=178.3.
CSEM Event type ke. Error ellipse: s-maj=18.0km s-min=8.6km az=171.0.
ISC III 23 10 14 03.1–4.6 35.4N–.20 44.0E–.10 35 13 0-4
ISN III 23 10 14 03.6–.30 35.55N 44.65E 0 3.1L ¶16596691
TEH III 23 10 14 12.9 35.99N 44.68E 20 3.1L
CSEM III 23 10 14 12.9 35.99N 44.68E 20 3.1L
ISC Event type ke.
ISN Error ellipse: s-maj=0.7km s-min=1.6km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 26 20 36 07.8–1.3 36.57N–.04 42.35E–.02 9–9 87 1-10
ISN III 26 20 36 05.7–1.9 36.53N 42.37E 35–999 3.7L ¶16596692
TEH III 26 20 36 06.9 36.53N 42.07E 18 3.3L
DDA III 26 20 36 06.3 36.52N 42.37E 14 3.3L
CSEM III 26 20 36 08.4–.20 36.55N 42.41E 10 3.7L
ISC Event type ke.
ISN Error ellipse: s-maj=6.9km s-min=43.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.4km az=7.0.
ISC IV 16 02 19 02.5–1.4 36.14N–.04 43.74E–.03 5–11 71 1-7
ISN IV 16 02 19 05.8–.30 36.21N 44.15E 0 3.2L ¶602212866
CSEM IV 16 02 19 05.3–.33 36.14N 43.73E 20–0 2.8L
ISK IV 16 02 19 06.2 36.53N 44.36E 5 3.1L
TEH IV 16 02 19 08.0 36.17N 44.23E 4 2.8L
NSSC IV 16 02 19 16.2–.40 35.89N 42.61E 13–22 2.5,2.3L
DDA IV 16 02 19 33.6 36.16N 43.97E 23 3.4,2.3L
ISC Event type ke.
ISN Error ellipse: s-maj=0.7km s-min=3.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=6.7km az=168.0.
NSSC Error ellipse: s-maj=5.6km s-min=26.6km az=-1.0.
TEH IV 25 15 33 30.2 34.75N 44.70E 4 2.9L
ISN IV 25 15 33 28.7–.30 34.82N 44.67E 0 2.9L ¶602004091
CSEM IV 25 15 33 30.2 34.75N 44.70E 4 2.9L
ISN Error ellipse: s-maj=2.8km s-min=1.5km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 26 03 56 54.0–4.7 34.7N–.20 44.1E–.30 35 5 1-2
ISN IV 26 03 56 52.3–.30 34.70N 44.38E 0 2.9L ¶602004095
TEH IV 26 03 56 53.7 34.60N 44.37E 5 2.8L
ISC Event type ke.
ISN Error ellipse: s-maj=3.0km s-min=0.1km az=-1.0.
ISC IV 28 23 25 32.6–1.4 36.80N–.04 41.82E–.03 1–12 48 1-4
ISN IV 28 23 25 30.7–.85 37.14N 42.14E 0–4 3.1L ¶16649520
NSSC IV 28 23 25 31.7–.85 36.88N 41.88E 0–10 2.3L
ISK IV 28 23 25 31.9 36.80N 41.83E 5 2.9
ISCJB IV 28 23 25 32.6–.84 36.79N–.03 41.86E–.03 5–7 2.9
CSEM IV 28 23 25 32.7–.24 36.80N 41.84E 2 2.7
DDA IV 28 23 25 33.4 36.91N 41.78E 2 2.7
ISC Event type ke.
ISN Error ellipse: s-maj=11.0km s-min=12.5km az=-1.0.
NSSC Error ellipse: s-maj=8.7km s-min=13.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.1km az=37.5.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=143.0.
ISC IV 29 22 18 30.7–2.6 34.8N–.10 44.8E–.10 35 16 1-4
ISN IV 29 22 18 24.9–1.2 34.81N 44.79E 0–6 3.1L ¶602004135
ISCJB IV 29 22 18 28.4–.57 34.81N–.04 44.78E–.06 33 3.1L
CSEM IV 29 22 18 28.5 34.80N 44.79E 21 3.1L
TEH IV 29 22 18 28.5 34.80N 44.79E 21 3.1L
ISC Event type ke.
ISN Error ellipse: s-maj=9.2km s-min=33.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.5km az=150.9.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 29 22 42 36.6–1.0 35.22N–.06 44.80E–.05 10 28 0-6
ISN IV 29 22 42 34.2–1.2 35.27N 44.88E 0–6 3.3L ¶602004136
ISCJB IV 29 22 42 35.4–.46 35.24N–.04 44.84E–.04 10 3.3L
CSEM IV 29 22 42 37.5 35.23N 44.80E 17 3.3L
TEH IV 29 22 42 37.5 35.23N 44.80E 17 3.3L
ISC Event type ke.
ISN Error ellipse: s-maj=5.8km s-min=11.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.0km az=35.5.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 30 00 38 01.3–.63 35.11N–.05 44.95E–.05 10 3.7b 62 1-81
ISCJB IV 30 00 37 59.8–.41 35.05N–.05 44.90E–.05 10 3.7b,3.1s ¶602004139
IDC IV 30 00 38 00.5–1.1 35.26N 44.76E 0 3.8L,3.7
ISK IV 30 00 38 09.7 36.07N 45.31E 5 4.6,4.5L
ISN IV 30 00 38 17.1–.30 36.55N 44.38E 0 3.7L,4.5L
CSEM IV 30 00 38 49.3 35.75N 40.08E 0 3.0L,4.5L
NSSC IV 30 00 38 49.3–.88 35.75N 40.09E 0–6 3.0L,4.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=24.4.
IDC Error ellipse: s-maj=23.6km s-min=13.1km az=171.0.
ISN Error ellipse: s-maj=0.4km s-min=3.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NSSC Error ellipse: s-maj=4.8km s-min=6.6km az=-1.0.
TEH IV 30 13 23 47.2 34.67N 44.52E 18 2.9L
ISN IV 30 13 23 41.4–.30 34.98N 44.32E 0 2.9L ¶602004147
ISN Error ellipse: s-maj=2.5km s-min=2.1km az=-1.0.
TEH V 01 05 56 16.8 35.41N 44.79E 10 2.7L
ISN V 01 05 56 13.6–.30 35.59N 44.53E 0 2.7L ¶602004151
CSEM V 01 05 56 14.7–.32 35.49N 44.80E 2 2.7L
ISN Error ellipse: s-maj=1.8km s-min=3.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=79.9km s-min=5.0km az=33.0.
TEH V 01 06 52 58.5 34.91N 44.57E 1 3.1L
ISN V 01 06 52 53.9–.30 35.12N 44.42E 0 3.1L ¶602004152
CSEM V 01 06 53 00.0–1.0 35.03N 44.76E 2 3.1L
ISN Error ellipse: s-maj=2.3km s-min=2.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=30.6km s-min=13.2km az=46.0.
TEH V 01 08 16 06.2 35.55N 44.76E 5 2.8L
ISN V 01 08 16 02.6–.30 35.69N 44.61E 0 2.8L ¶602004156
CSEM V 01 08 16 05.2–.34 35.54N 44.75E 2 2.8L
ISN Error ellipse: s-maj=1.5km s-min=3.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=91.7km s-min=5.5km az=33.0.
TEH V 01 08 21 05.2 35.11N 44.86E 29 3.0L
CSEM V 01 08 21 00.0–.72 35.05N 44.65E 2 3.0L ¶602004157
ISN V 01 08 21 06.4–.30 35.58N 44.32E 0 3.0L
CSEM Event type ke. Error ellipse: s-maj=31.4km s-min=7.0km az=35.0.
ISN Error ellipse: s-maj=1.9km s-min=2.8km az=-1.0.
TEH V 21 17 48 05.9 34.78N 44.65E 18 2.8L
CSEM V 21 17 48 05.7–.96 34.78N 44.73E 10 2.8L ¶602004344
ISN V 21 17 48 05.1–.30 34.87N 44.62E 0 2.8L
CSEM Event type ke. Error ellipse: s-maj=42.2km s-min=7.9km az=30.0.
ISN Error ellipse: s-maj=2.7km s-min=1.4km az=-1.0.
ISN VI 24 23 49 19.0–.30 36.50N 43.07E 0 2.8L
¶602004626
ISN Error ellipse: s-maj=1.9km s-min=0.9km az=-1.0.

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INMG II 11 07 04 10.5–1.1 37.30N 8.56W 14–5 1.2L
CSEM II 11 07 04 10.5 37.30N 8.56W 14 1.2L ¶16298961
IGIL II 11 07 04 10.0 37.30N 8.56W 16 1.1L
INMG Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 26 07 36 28.2–.90 37.35N–.02 8.34W–.02 18–2 432 0-13
CSEM III 26 07 36 28.9–.16 37.36N 8.34W 15 4.4L ¶16360616
LDG III 26 07 36 28.6–.19 37.27N 8.30W 10 3.9L
SFS III 26 07 36 29.0 37.40N 8.40W 8 3.8L
NEIC III 26 07 36 29.4 37.41N 8.41W 8 3.8
INMG III 26 07 36 30.8–1.4 37.30N 8.43W 21–1 4.0L,3.7
IGIL III 26 07 36 30.9 37.29N 8.42W 21 4.1L,3.7
MDD III 26 07 36 30.1–.23 37.41N 8.40W 10–0 4.0,3.7

CNRM III 26 07 36 30.6 37.17N 8.56W 30 3.7,3.7
ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=53.0.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=148.0.
SFS Event type ke.
NEIC Event type fe. Felt [IV] at Silves and [II] at Albufeira, Almancil, Boliqueime, Lagoa, Loule and Portimao. Also felt at Alportel, Armacao de Pera, Beja, Castro Verde, Ferreiras, Monchique, Odemira, Olhao, Santo Andre and Sao Bartolomeu de Messines. Felt at Ayamonte, Spain. After MDD.
INMG Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=61.0.
MDD Event type fe. Error ellipse: s-maj=2.7km s-min=2.2km az=164.0. EMS: II INTENSIDAD MAXIMA ESPAA. EMS: IV INTENSIDAD MAXIMA (INSTITUTO METEOROLOGIA-PORTUGAL). PRXIMO.

ISC IV 20 08 09 01.6–.88 37.37N–.02 8.48W–.02 18–3 160 0-6
CSEM IV 20 08 09 01.9–.15 37.38N 8.47W 15 3.0L **¶16448748**
MDD IV 20 08 09 02.8–.24 37.37N 8.49W 11–0 2.6
IGIL IV 20 08 09 03.4 37.34N 8.49W 10 2.3L
INMG IV 20 08 09 03.1–1.6 37.35N 8.49W 12–3 2.4L,1.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=25.0.
MDD Error ellipse: s-maj=3.1km s-min=2.1km az=150.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=2.3km s-min=2.2km az=44.0.

ISC V 11 21 48 22.4–1.9 37.04N–.05 9.43W–.05 9–9 275 0-11
CSEM V 11 21 48 22.6–.23 36.75N 9.64W 30 3.9L **¶16525519**
MDD V 11 21 48 22.3–.85 36.68N 9.79W 42–27 4.7b
IGIL V 11 21 48 23.2 36.67N 9.72W 31 2.8L
CNRM V 11 21 48 23.6 36.67N 9.41W 30 3.4
INMG V 11 21 48 23.2–.94 36.67N 9.73W 31–6 2.9L
LDG V 11 21 48 23.7–.63 37.11N 9.33W 10 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.4km az=71.0.
MDD Error ellipse: s-maj=7.9km s-min=5.6km az=79.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=60.0.
LDG Event type ke. Error ellipse: s-maj=12.3km s-min=6.7km az=42.0.

ISC VI 24 13 27 29.0–1.1 38.18N–.02 9.28W–.04 30–12 259 1-10
INMG VI 24 13 27 31.9–1.7 38.16N 9.26W 29–4 2.8L **¶16679637**
IGIL VI 24 13 27 31.9 38.15N 9.27W 31 2.8L
MDD VI 24 13 27 31.2–.67 38.18N 9.29W 27–6 2.9
CSEM VI 24 13 27 31.6–.18 38.20N 9.18W 40 3.7L
ISC Event type ke.
INMG Event type ke. Error ellipse: s-maj=5.3km s-min=2.0km az=80.0.
MDD Error ellipse: s-maj=7.2km s-min=2.8km az=76.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.1km az=68.0.

ISC VI 28 02 15 45.8–.80 41.22N–.02 8.88W–.03 10 237 0-6
ISCJB VI 28 02 15 44.8–.37 41.18N–.01 8.83W–.04 10 **¶16683883**
CSEM VI 28 02 15 46.1–.16 41.22N 8.88W 15 3.5L
MDD VI 28 02 15 47.8–.47 41.23N 8.92W 22–1 2.7
IGIL VI 28 02 15 48.4 41.22N 8.84W 24 2.7
INMG VI 28 02 15 48.8–1.5 41.23N 8.83W 23–3 2.8,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=1.9km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=1.9km az=103.0.
MDD Error ellipse: s-maj=5.0km s-min=2.7km az=98.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.1km s-min=1.5km az=101.0.

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ISC I 04 00 54 47.6–1.5 42.62N–.03 9.38W–.05 14–9 229 0-10
CSEM I 04 00 54 49.1–.22 42.62N 9.23W 10 3.1L **¶15902947**
LDG I 04 00 54 50.7–.23 42.66N 9.22W 10 3.1L
MDD I 04 00 54 50.4–.82 42.60N 9.23W 6–4 2.7
INMG I 04 00 54 51.0–1.8 42.60N 9.20W 3–4 2.7,2.6L
IGIL I 04 00 54 51.2 42.61N 9.19W 9 2.3L,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.4km az=103.0.
LDG Event type ke. Error ellipse: s-maj=4.9km s-min=2.5km az=98.0.
MDD Event type fe. Error ellipse: s-maj=7.2km s-min=3.9km az=97.0. EMS: II INTENSIDAD MAXIMA. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=6.0km s-min=2.6km az=83.0.

ISC I 05 05 12 21.8–1.2 37.03N–.03 4.80W–.02 8–10 105 0-7
CSEM I 05 05 12 21.0–.14 37.06N 4.82W 5 2.9L **¶15925536**
SFS I 05 05 12 22.0 37.02N 4.83W 0 2.4L
MDD I 05 05 12 22.5–.34 36.99N 4.81W 10–0 2.3
INMG I 05 05 12 22.8–1.7 37.02N 4.82W 13–6 2.2L
LDG I 05 05 12 22.2–.12 37.00N 4.82W 2 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.0km az=5.0.
SFS Event type ke.
MDD Error ellipse: s-maj=3.7km s-min=2.8km az=4.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=27.0.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=13.0.

MDD I 12 20 12 07.6–1.0 37.02N 4.82W 10–2 1.3
CSEM I 12 20 12 06.7–.17 37.04N 4.79W 5 1.3L **¶600888381**
MDD Error ellipse: s-maj=6.7km s-min=5.8km az=6.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=179.0.

MDD I 12 20 13 32.2–.77 37.02N 4.82W 12–5 1.4
CSEM I 12 20 13 30.8–.25 37.05N 4.82W 10 1.4L **¶600888382**
MDD Error ellipse: s-maj=5.4km s-min=4.6km az=165.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=4.3km az=4.0.

MDD I 12 20 26 58.1–.85 37.02N 4.88W 10–3 1.2
CSEM I 12 20 26 57.1–.23 37.06N 4.86W 8 2.1L **¶600888385**
MDD Error ellipse: s-maj=5.9km s-min=5.0km az=176.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=11.0.

ISC I 13 02 01 40.6–.80 37.09N–.02 4.75W–.02 11–6 240 0-7
SFS I 13 02 01 41.0 37.02N 4.82W 0 2.9L **¶15925931**
MDD I 13 02 01 41.9–.24 36.99N 4.75W 11–0 2.9
ISCJB I 13 02 01 41.2–.39 37.24N–.02 4.83W–.02 8–2 2.9
IGIL I 13 02 01 41.8 37.03N 4.83W 0 2.9
LDG I 13 02 01 41.7–.12 36.98N 4.81W 2 3.4L
INMG I 13 02 01 41.7–1.3 37.05N 4.80W 5–2 3.0L
CSEM I 13 02 01 42.3–.16 37.15N 4.81W 13–0 3.6L
ISC Event type ke.
SFS Event type ke.
MDD Event type fe. Error ellipse: s-maj=2.8km s-min=2.3km az=11.0. EMS: II INTENSIDAD MAXIMA. PRXIMO.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.2km az=176.9.
LDG Event type ke.
INMG Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.7km az=40.0.

ISC I 13 17 42 54.2–.00 37.06N–.02 4.76W–.01 11–8 330 0-7
ISCJB I 13 17 42 53.5–.29 37.17N–.02 4.78W–.01 5–2 **¶15925970**
CSEM I 13 17 42 54.6–.09 37.09N 4.77W 5 3.6L
SFS I 13 17 42 54.0 37.04N 4.86W 0 3.1L
LDG I 13 17 42 55.6–.12 37.01N 4.83W 2 3.7L
INMG I 13 17 42 56.5–1.7 37.00N 4.65W 24–4 3.3L
IGIL I 13 17 42 56.0 36.95N 4.71W 15 3.0L
MDD I 13 17 42 56.0–.23 37.01N 4.76W 11–0 3.0
CNRM I 13 17 43 00.0 37.06N 4.89W 30 3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=8.2.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=2.0.
SFS Event type ke.
LDG Event type ke.
INMG Event type ke. Error ellipse: s-maj=2.9km s-min=2.7km az=147.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=2.1km az=176.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.

MDD II 11 16 29 27.8–.41 37.02N 4.81W 0 1.7
SFS II 11 16 29 27.0 37.03N 4.80W 0 1.7L **¶601020705**
CSEM II 11 16 29 27.0–.12 37.03N 4.80W 5 1.7L
MDD Error ellipse: s-maj=4.0km s-min=3.3km az=35.0. PRXIMO.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=14.0.

ISC III 01 06 21 36.0–.99 37.28N–.02 4.21W–.01 8–8 333 0-12
ISCJB III 01 06 21 34.9–.29 37.39N–.02 4.26W–.01 1–2 **¶16166897**
SFS III 01 06 21 36.0 37.18N 4.24W 0 3.5L
CSEM III 01 06 21 36.1–.11 37.26N 4.23W 5 4.1L
MDD III 01 06 21 37.1–.18 37.19N 4.23W 4–2 3.4
IGIL III 01 06 21 37.1 37.20N 4.23W 2 3.1L
LDG III 01 06 21 37.2–.10 37.16N 4.22W 2 3.4L
INMG III 01 06 21 38.6–1.6 37.17N 4.19W 20–3 3.4L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=2.5.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=16.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=180.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=174.0.
INMG Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=4.0.

ISC III 23 10 25 54.6–1.3 38.01N–.03 0.50W–.03 11–9 189 1-8
NEIC III 23 10 25 55.4 37.92N 0.36W 0 3.1 **¶16349361**
SFS III 23 10 25 56.0 37.95N 0.43W 11 3.1L
MDD III 23 10 25 56.6–.63 37.97N 0.47W 5–3 3.0
LDG III 23 10 25 56.1–.21 37.95N 0.41W 2 3.1L
INMG III 23 10 25 57.4–1.9 38.00N 0.54W 11–5 3.0L
CSEM III 23 10 25 57.6–.24 38.06N 0.68W 10 3.5L
ISC Event type fe.
NEIC Event type fe. Felt at Torrevieja. After MDD.
SFS Event type ke.
MDD Event type fe. Error ellipse: s-maj=6.0km s-min=2.9km az=131.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=147.0.
INMG Event type ke. Error ellipse: s-maj=5.6km s-min=3.2km az=122.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.8km az=131.0.

MDD III 26 05 04 13.8–.83 42.62N 9.18W 6–5 2.0
CSEM III 26 05 04 13.5–.41 42.61N 9.13W 15 2.5L **¶16630988**
INMG III 26 05 04 13.8–1.4 42.61N 9.22W 0 2.0L
MDD Error ellipse: s-maj=8.3km s-min=3.5km az=79.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=4.1km az=92.0.
INMG Event type ke. Error ellipse: s-maj=6.7km s-min=2.6km az=88.0.

ISC IV 03 22 17 49.9–1.4 42.60N–.03 9.31W–.05 13–9 155 0-7
ISCJB IV 03 22 17 49.6–.73 42.51N–.02 9.22W–.05 12–3 **¶16406030**
CSEM IV 03 22 17 50.6–.26 42.58N 9.20W 10 2.9L
MDD IV 03 22 17 50.7–1.1 42.61N 9.21W 12–7 2.6
INMG IV 03 22 17 51.8–1.3 42.60N 9.19W 0 2.4L
IGIL IV 03 22 17 51.9 42.62N 9.26W 11 2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=9.7.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.1km az=103.0.
MDD Error ellipse: s-maj=9.7km s-min=5.1km az=85.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=3.8km s-min=1.8km az=92.0.

ISC IV 07 15 53 44.0–.47 37.60N–.02 2.46W–.01 9–2 3.7b 440 0-66
ISCJB IV 07 15 53 43.1–.34 37.76N–.02 2.56W–.01 0–1 3.7b **¶16413599**
IDC IV 07 15 53 43.8–1.8 37.65N 2.30W 0 3.6,3.5
INMG IV 07 15 53 45.0–1.5 37.51N 2.45W 4–2 3.7,3.6L
MDD IV 07 15 53 45.2–.25 37.50N 2.44W 10–0 3.6,3.6L
LDG IV 07 15 53 45.5–.11 37.48N 2.45W 2 3.6L,3.6L
SFS IV 07 15 53 45.0 37.52N 2.45W 1 3.4L,3.6L
CSEM IV 07 15 53 45.4–.13 37.60N 2.54W 10 4.0L,3.6L
IGIL IV 07 15 53 46.0 37.51N 2.45W 12 3.3L,3.6L
STR IV 07 15 53 55.6–.27 38.22N 2.12W 2 3.5L,3.6L
CRAAG IV 07 15 54 25.6 36.18N 0.82E 2.5L,3.6L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.2.
IDC Error ellipse: s-maj=34.1km s-min=17.9km az=33.0.
INMG Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=140.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=2.0km az=153.0. EMS : IV INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=1.4km az=141.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.7km az=154.0.
STR Event type ke.

ISC IV 08 15 07 10.1–.99 41.23N–.02 1.16W–.02 3–7 3.7b 843 1-80
CSEM IV 08 15 07 10.5–.06 41.20N 1.14W 2 4.5L,3.8W **¶16414580**
IGIL IV 08 15 07 11.8 41.16N 1.07W 2 3.5L,3.8W
INMG IV 08 15 07 12.7–1.9 41.18N 1.09W 6–3 4.0L,3.8W
CRAAG IV 08 15 07 13.0 41.16N 1.07W 4.0L,3.8W
NEIC IV 08 15 07 13.0 41.18N 1.09W 11 3.8W,3.8W
SFS IV 08 15 07 13.0 41.16N 1.07W 10 3.8L,3.8W
MDD IV 08 15 07 13.0–.20 41.18N 1.08W 11–0 4.1,3.8W
LDG IV 08 15 07 13.3–.06 41.19N 1.06W 10 4.5L,3.9
IDC IV 08 15 07 14.0–3.8 41.13N 1.20W 24–27 4.1L,3.8
STR IV 08 15 07 17.6–.16 41.51N 0.92W 5 4.2L,3.8
ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=137.0.
INMG Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=108.0.
NEIC Event type fe. Felt [IV] in the Villar de los Navarros area. After MDD.
SFS Event type ke.
MDD Event type fe. Error ellipse: s-maj=2.3km s-min=1.7km az=134.0. EMS: IV-V INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=133.0.
IDC Error ellipse: s-maj=18.6km s-min=12.7km az=144.0.
STR Event type ke.

ISC IV 22 00 10 14.6–1.1 37.47N–.03 2.33W–.02 5–9 340 0-16
ISCJB IV 22 00 10 14.8–.40 37.61N–.02 2.42W–.02 5–2 **¶16451677**
CSEM IV 22 00 10 15.3–.12 37.47N 2.34W 5 3.6L
SFS IV 22 00 10 15.0 37.42N 2.29W 0 3.0L
INMG IV 22 00 10 15.8–1.6 37.41N 2.28W 6–3 3.1L
IGIL IV 22 00 10 15.9 37.42N 2.30W 0 3.1L
MDD IV 22 00 10 15.6–.26 37.42N 2.29W 0 3.0
LDG IV 22 00 10 16.3–.14 37.38N 2.27W 2 3.0L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.2km az=160.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=156.0.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=127.0.
MDD Event type fe. Error ellipse: s-maj=2.6km s-min=2.3km az=128.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=146.0.

ISC IV 29 23 24 57.2–1.0 39.63N–.02 1.21W–.02 11–9 371 1-9
ISCJB IV 29 23 24 55.9–.28 39.68N–.01 1.35W–.02 2–2 **¶16485200**
CSEM IV 29 23 24 57.4–.08 39.63N 1.24W 2 3.5L
MDD IV 29 23 24 59.8–.26 39.59N 1.20W 11–0 3.1
SFS IV 29 23 24 59.0 39.58N 1.20W 10 2.9L
LDG IV 29 23 24 59.7–.07 39.57N 1.16W 10 3.3L
INMG IV 29 23 24 59.6–1.8 39.60N 1.22W 0 3.0L
IGIL IV 29 23 24 59.8 39.59N 1.20W 10 3.0L
STR IV 29 23 25 15.3–.39 39.89N 1.14W 10 3.3L
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=39.6.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.3km az=128.0.
MDD Event type fe. Error ellipse: s-maj=3.2km s-min=1.8km az=121.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
SFS Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=126.0.
INMG Event type ke. Error ellipse: s-maj=2.8km s-min=1.4km az=109.0.
STR Event type ke.

ISC V 02 23 30 09.2–.91 37.99N–.02 6.53W–.02 28–8 347 0-10
CNRM V 02 23 30 06.6 38.01N 6.71W 30 3.6 **¶16487930**
CSEM V 02 23 30 08.1–.07 38.00N 6.54W 10 3.9L
INMG V 02 23 30 09.6–1.4 37.97N 6.55W 13–2 3.4L,3.3
IGIL V 02 23 30 09.2 37.97N 6.55W 7 2.7L,3.3
LDG V 02 23 30 10.5–.12 37.97N 6.56W 20 3.1L,3.3
MDD V 02 23 30 10.3–.19 37.99N 6.57W 20–1 3.4,3.3

SFS V 02 23 30 10.0 37.98N 6.56W 20 3.5L,3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=11.0.
INMG Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=29.0.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=5.0.
MDD Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=24.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
SFS Event type ke.
ISC V 11 15 05 12.7–.60 37.73N–.02 1.71W–.02 5–3 4.3b,3.6s 784 0-86
IDC V 11 15 05 12.8–.74 37.64N 1.59W 0 4.2,4.2L **¶16505628**
CSEM V 11 15 05 12.0–.07 37.75N 1.72W 0 4.8L,4.5W
CRAAG V 11 15 05 12.0 37.70N 1.63W 4.5L,4.5W
NEIC V 11 15 05 13.1 37.69N 1.67W 0 4.5L,4.5W
MDD V 11 15 05 13.5–.15 37.72N 1.71W 2–3 4.6b,4.5
INMG V 11 15 05 13.0–1.0 37.70N 1.70W 0 4.5L,4.2
STR V 11 15 05 13.0–.77 37.72N 1.67W 5 4.5L,4.2
MOS V 11 15 05 13.2–1.5 37.96N 1.79W 10 4.4b,4.2
LDG V 11 15 05 13.0–.10 37.60N 1.65W 2 4.5L,4.2
IGIL V 11 15 05 13.9 37.70N 1.68W 0 4.2L,4.2
SFS V 11 15 05 13.0 37.70N 1.67W 0 4.5L,4.2
CNRM V 11 15 05 15.7 37.73N 1.65W 30 4.2,4.2
ISC Event type fe.
IDC Error ellipse: s-maj=16.8km s-min=15.9km az=122.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=167.0.
NEIC Event type fe. Felt [II] at Lorca and Murcia. Also felt at Aguilas, Ciudad Real, Mazarron and Velez Rubio. After MDD.
MDD Event type fe. Error ellipse: s-maj=1.5km s-min=1.4km az=166.0. EMS VI INTENSIDAD MAXIMA. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=1.4km s-min=1.0km az=142.0.
STR Event type ke.
MOS Error ellipse: s-maj=7.7km s-min=3.3km az=64.6.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=142.0.
SFS Event type ke.
ISC V 11 16 47 26.0–.44 37.65N–.02 1.69W–.02 7–2 5.2b,4.7s 2311 0-149
BJI V 11 16 47 23.7 37.70N 1.70W 5 5.4s,5.3b **¶16505634**
MOS V 11 16 47 24.6–1.2 37.74N 1.67W 10 5.3b,4.6s
IDC V 11 16 47 24.9–.40 37.64N 1.63W 0 4.8L,4.8
CSEM V 11 16 47 25.3–.06 37.71N 1.65W 2 5.4L,5.3b
SFS V 11 16 47 25.0 37.69N 1.67W 0 5.1L,5.3b
NEIC V 11 16 47 25.7 37.70N 1.67W 1 5.6L,5.3b
CRAAG V 11 16 47 25.0 37.68N 1.68W 5.1W,5.3b
INMG V 11 16 47 25.5–1.9 37.72N 1.69W 1–2 5.2L,4.5
GCMT V 11 16 47 25.7–.20 37.70N 1.65W 12 5.1W,4.5
MDD V 11 16 47 26.0–.15 37.72N 1.71W 4 5.4,4.5
ISCJB V 11 16 47 27.0–.07 37.72N–.01 1.63W–.01 24 5.1b,4.6s
IGIL V 11 16 47 26.4 37.70N 1.68W 0 4.8L,4.6s
STR V 11 16 47 27.0–.48 37.77N 1.67W 5 5.3L,4.6s
CNRM V 11 16 47 27.5 37.71N 1.50W 25 4.6,4.6s
LDG V 11 16 47 28.2–.14 37.58N 1.72W 25 5.6L,4.8s
ISC Event type de.
MOS Error ellipse: s-maj=5.4km s-min=2.4km az=61.0.
IDC Error ellipse: s-maj=11.5km s-min=10.6km az=133.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=165.0.
SFS Event type ke.
NEIC Event type de. At least ten people killed and dozens injured in the Lorca area. Felt [VI] at Lorca, [V] at Alhama de Murcia and [IV] at Huercal-Overa, Mazarron, Murcia, Lumbreras and Totana. Felt in much of southeastern Spain and in the Madrid area. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. After MDD. Moment Tensor Solution. s10 Moment tensor: Scale 10^{16}Nm; M_{rr}0.84 $M_{\theta\theta}$-5.02 $M_{\phi\phi}$4.18 $M_{r\theta}$-0.47 $M_{\theta\phi}$-0.42 $M_{\phi r}$1.89 Best double couple: NP1:ϕ_s45.00000°,δ70.00000°,λ15.00000°. NP2:ϕ_s310.00000°,δ76.00000°,λ159.00000°. Principal axes: T 5.0700,Plg24.0000°,Azm266.0000°; N 0.0000,Plg65.0000°,Azm97.0000°; P -5.0700,Plg4.0000°,Azm358.0000° M_o5.10000×10^{16} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s113.00000°,δ42.00000°,λ157.00000°. NP2:ϕ_s220.00000°,δ75.00000°,λ50.00000°. Principal axes: T Plg45.0000°,Azm90.0000°; N Plg0.0000°,Azm0.0000°; P Plg20.0000°,Azm339.0000°
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=142.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c68; s110,c199; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.43±.11 $M_{\theta\theta}$-6.19±.08; $M_{\phi\phi}$2.76±.11; $M_{r\theta}$1.71±.26; $M_{\theta\phi}$-0.87±.08; $M_{\phi r}$-0.73±.32; Best double couple: NP1:ϕ_s111.00000°,δ61.00000°,λ126.00000°. NP2:ϕ_s234.00000°,δ45.00000°,λ43.00000°. Principal axes: T 4.2440,Plg57.0000°,Azm71.0000°; N 2.2990,Plg31.0000°,Azm271.0000°; P -6.5430,Plg9.0000°,Azm175.0000° M_o5.39300×10^{16}
MDD Event type fe. Error ellipse: s-maj=1.5km s-min=1.4km az=164.0. EMS: VII INTENSIDAD MAXIMA. PRXIMO.
ISCJB Event type de. Error ellipse: s-maj=1.7km s-min=1.1km az=164.9.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=2.3km az=109.0.
ISC V 11 16 53 13.9–.95 37.71N–.03 1.69W–.02 9–6 121 0-7
INMG V 11 16 53 14.9–.98 37.72N 1.67W 6–3 2.9L **¶16505636**
CSEM V 11 16 53 14.3–.15 37.69N 1.69W 12 3.5L
IGIL V 11 16 53 15.4 37.66N 1.63W 11 3.5L
MDD V 11 16 53 15.2–.21 37.71N 1.71W 2–4 3.8b,2.8
SFS V 11 16 53 15.0 37.66N 1.62W 11 2.9L,2.8
ISC Event type ke.
INMG Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=162.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=168.0.
MDD Error ellipse: s-maj=2.0km s-min=1.7km az=61.0. PRXIMO.
SFS Event type ke.
ISC V 11 19 28 18.2–1.0 37.72N–.02 1.72W–.02 11–8 221 0-16
ISCJB V 11 19 28 17.5–.36 37.79N–.02 1.76W–.02 12–2 **¶16506308**
SFS V 11 19 28 18.0 37.73N 1.66W 0 2.9L
MDD V 11 19 28 19.0–.19 37.73N 1.69W 2–4 2.9
CSEM V 11 19 28 18.1–.14 37.73N 1.72W 5 3.3L
INMG V 11 19 28 18.5–.92 37.70N 1.69W 0 2.8L
IDC V 11 19 28 19.3–3.0 37.72N 1.82W 0 3.3,3.2L
LDG V 11 19 28 19.3–.14 37.70N 1.66W 2 2.9L,3.2L
IGIL V 11 19 28 19.1 37.74N 1.67W 1 2.1L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=153.2.
SFS Event type ke.
MDD Error ellipse: s-maj=1.8km s-min=1.7km az=3.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=158.0.
INMG Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=156.0.
IDC Error ellipse: s-maj=32.0km s-min=19.5km az=22.0.
LDG Event type ke. Error ellipse: s-maj=3.6km s-min=2.0km az=151.0.
ISC V 11 20 37 44.2–1.1 37.74N–.02 1.72W–.02 6–8 4.0b,3.0s 429 0-60
ISCJB V 11 20 37 43.3–.30 37.84N–.02 1.80W–.01 8–2 3.8b,2.9s **¶16506310**
IDC V 11 20 37 43.7–1.1 37.69N 1.69W 0 4.1L,4.0
CSEM V 11 20 37 44.4–.09 37.73N 1.72W 5 4.3L,3.9W
CRAAG V 11 20 37 44.0 37.76N 1.72W 3.9W,3.9W
MDD V 11 20 37 45.4–.17 37.73N 1.70W 4 4.0,3.9W
SFS V 11 20 37 45.0 37.68N 1.64W 6 3.9L,3.9W
LDG V 11 20 37 45.2–.12 37.65N 1.63W 2 4.1L,3.9W
INMG V 11 20 37 45.5–1.0 37.76N 1.68W 5–1 3.9L,3.9W
IGIL V 11 20 37 45.8 37.68N 1.64W 6 3.6L,3.9W
STR V 11 20 37 48.3–.73 37.95N 1.67W 5 4.2L,3.9W
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.7km az=163.8.
IDC Error ellipse: s-maj=22.7km s-min=14.4km az=49.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=161.0.
MDD Event type fe. Error ellipse: s-maj=1.8km s-min=1.6km az=177.0. EMS: IV INTENSIDAD MAXIMA.
SFS Event type ke.
LDG Event type ke. Error ellipse: s-maj=3.1km s-min=1.5km az=143.0.
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=131.0.
STR Event type ke.
MDD V 21 21 35 28.7–1.6 38.45N 2.41W 0 0.8
CSEM V 21 21 35 28.7 38.45N 2.41W 0 0.8L **¶601469296**
MDD Error ellipse: s-maj=22.8km s-min=4.6km az=138.0. PRXIMO SIN SOLUCIN.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MDD V 28 17 24 19.4–1.0 41.76N 3.00E 0 1.1
LDG V 28 17 24 18.4–.22 41.74N 3.03E 2 1.5L **¶16575408**
CSEM V 28 17 24 19.2–.57 41.79N 2.96E 5 1.1L
MDD Error ellipse: s-maj=7.4km s-min=4.2km az=131.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=3.4km s-min=1.8km az=132.0.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=3.4km az=141.0.
ISC VI 05 12 10 17.9–1.1 37.04N–.03 5.31W–.02 17–9 97 0-3
CSEM VI 05 12 10 17.6–.12 37.10N 5.38W 12 2.7L **¶16949426**
INMG VI 05 12 10 18.7–1.3 37.06N 5.33W 16–3 2.0L
MDD VI 05 12 10 19.0–.31 37.06N 5.34W 18–4 1.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=7.0.
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=72.0.
MDD Error ellipse: s-maj=3.8km s-min=2.7km az=178.0. PRXIMO.
ISC VI 08 17 14 47.2–1.6 43.45N–.05 9.22W–.07 24 187 1-9
ISCJB VI 08 17 14 45.7–.61 43.42N–.03 9.12W–.06 24 **¶16581044**
CSEM VI 08 17 14 46.9–.24 43.37N 9.13W 15 3.4L
MDD VI 08 17 14 48.3–1.4 43.34N 9.13W 25–7 3.8b,2.7
INMG VI 08 17 14 49.0–1.2 43.34N 9.25W 15–3 2.7L,2.7
LDG VI 08 17 14 49.3–.30 43.35N 9.15W 20 2.9L,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=19.8.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.7km az=101.0.
MDD Error ellipse: s-maj=10.8km s-min=8.4km az=105.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=6.1km s-min=2.5km az=93.0.
LDG Event type ke. Error ellipse: s-maj=6.6km s-min=3.2km az=96.0.

(378) Pyrenees.

MDD II 08 20 32 08.5–.65 42.94N 0.09W 0 0.6
LDG II 08 20 32 06.9–.61 42.74N 0.05W 2 1.3,1.3L **¶16019813**
CSEM II 08 20 32 08.1–.24 42.92N 0.09W 2 1.3L,1.3L
MDD Error ellipse: s-maj=11.2km s-min=2.6km az=166.0.
LDG Event type ke. Error ellipse: s-maj=15.9km s-min=3.1km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=2.1km az=166.0.
MDD V 11 17 12 35.0–.83 42.93N 0.82W 7–14 0.9
CSEM V 11 17 12 34.5–.05 42.94N 0.81W 10 0.9L **¶16525516**
LDG V 11 17 12 34.7–.11 42.94N 0.82W 2–2 1.7,1.6L
MDD Error ellipse: s-maj=3.7km s-min=2.5km az=158.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=168.0.
LDG Event type ke. Error ellipse: s-maj=4.1km s-min=0.5km az=15.0.
ISC V 12 18 00 08.7–.79 43.14N–.02 0.22W–.01 17–5 463 0-7
ISCJB V 12 18 00 07.4–.20 43.22N–.01 0.26W–.01 6–1 **¶16506977**
CSEM V 12 18 00 08.9–.07 43.16N 0.22W 5 3.5L
MRB V 12 18 00 09.8 43.05N 0.25W 0–2 2.8L
STR V 12 18 00 10.3–.09 43.11N 0.20W 2 3.1L
MDD V 12 18 00 10.3–.24 43.09N 0.22W 4–3 2.9
LDG V 12 18 00 10.7–.06 43.12N 0.20W 2 3.5L,3.4
INMG V 12 18 00 11.0–1.1 42.85N 0.19W 5–3 2.6L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=162.6.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=151.0.
MRB Event type ke. Error ellipse: s-maj=2.8km s-min=0.7km az=314.0.
STR Event type ke.
MDD Error ellipse: s-maj=2.6km s-min=1.6km az=169.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=146.0.
INMG Event type ke. Error ellipse: s-maj=6.4km s-min=4.0km az=83.0.
ISC V 14 10 25 10.9–.62 43.10N–.02 0.19W–.01 16–4 498 0-8
ISCJB V 14 10 25 09.4–.18 43.20N–.01 0.19W–.01 8–1 **¶16510269**
CSEM V 14 10 25 10.7–.06 43.14N 0.16W 5 3.5L
STR V 14 10 25 11.3–.10 43.04N 0.20W 5 3.5L
LDG V 14 10 25 11.4–.05 43.04N 0.23W 2 3.6L,3.4
MRB V 14 10 25 12.0 43.09N 0.20W 10–1 2.9L,3.4
MDD V 14 10 25 12.1–.21 43.08N 0.18W 4–3 3.3,3.4
INMG V 14 10 25 12.6–1.0 43.04N 0.18W 0–2 2.8L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=160.1.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=152.0.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=22.0.
MRB Event type ke. Error ellipse: s-maj=2.5km s-min=0.4km az=295.0.
MDD Error ellipse: s-maj=2.4km s-min=1.6km az=171.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=2.9km s-min=1.4km az=17.0.
ISC V 22 14 45 11.9–.84 43.02N–.02 1.29W–.02 18–3 413 0-8
CSEM V 22 14 45 12.0–.08 43.00N 1.27W 10 3.3L **¶16532391**
MDD V 22 14 45 12.8–.14 42.99N 1.28W 4–2 3.0
INMG V 22 14 45 12.9–1.1 42.98N 1.29W 1–2 2.7L
STR V 22 14 45 13.8–.25 43.09N 1.20W 3 3.0L
LDG V 22 14 45 13.3–.05 43.02N 1.27W 2 3.4L,3.2
IGIL V 22 14 45 14.5 42.98N 1.29W 2 3.4L,3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=158.0.
MDD Event type fe. Error ellipse: s-maj=1.5km s-min=1.1km az=45.0. EMS: III INTENSIDAD MAXIMA. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=44.0.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=149.0.
ISC V 25 04 06 53.9–.93 42.91N–.02 1.44W–.02 12–7 208 0-6
CSEM V 25 04 06 53.3–.13 42.91N 1.44W 5 3.0L **¶16539631**
MDD V 25 04 06 54.2–.19 42.86N 1.44W 1–3 2.6
STR V 25 04 06 54.6–.16 42.92N 1.44W 6 2.9L
LDG V 25 04 06 54.6–.11 42.89N 1.44W 2 3.1L,2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=168.0.
MDD Event type fe. Error ellipse: s-maj=2.5km s-min=1.6km az=136.0. EMS: II INTENSIDAD MAXIMA. PRXIMO.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.2km s-min=2.0km az=6.0.
MDD V 28 17 24 51.1–.25 42.85N 1.49W 4–2 1.0
CSEM V 28 17 24 50.5–.06 42.84N 1.48W 8 1.0L **¶16575409**
LDG V 28 17 24 50.7–.05 42.85N 1.49W 4 1.7L,1.3
MDD Error ellipse: s-maj=2.2km s-min=1.2km az=150.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=83.0.
LDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=76.0.

(379) Near south coast of France.

ISC II 03 03 16 05.5–.67 43.78N–.02 7.51E–.01 11 196 0-5
ISCJB II 03 03 16 05.6–.33 43.86N–.02 7.44E–.02 11 **¶16000616**
LDG II 03 03 16 06.2–.07 43.80N 7.54E 15 3.1L,3.0
CSEM II 03 03 16 06.1–.25 43.82N 7.48E 17–1 3.2L,3.0
GEN II 03 03 16 06.7 43.79N 7.56E 10 2.7L,3.0
ROM II 03 03 16 07.0–.39 43.84N 7.57E 21–3 2.7L,2.5
STR II 03 03 16 09.1–.47 43.80N 7.46E 3 2.9L,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=167.0.
LDG Event type ke. Error ellipse: s-maj=1.3km s-min=1.0km az=162.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=156.0.
ROM Event type ke. Error ellipse: s-maj=6.5km s-min=1.7km az=23.0.
STR Event type ke.
MDD III 01 00 48 46.9–.81 43.24N 3.81E 12–1 1.0
CSEM III 01 00 48 45.0–.21 43.26N 3.81E 10 1.8L **¶16173012**
LDG III 01 00 48 45.7–.14 43.23N 3.81E 3 1.8L,1.7
MDD Error ellipse: s-maj=6.2km s-min=4.0km az=142.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=164.0.
LDG Event type ke. Error ellipse: s-maj=3.0km s-min=1.6km az=177.0.
MDD III 01 00 49 15.4–.46 43.23N 3.82E 8–7 1.5
CSEM III 01 00 49 14.2–.14 43.26N 3.79E 10 2.3L **¶16173015**
LDG III 01 00 49 15.0–.07 43.24N 3.81E 3 2.2,2.2L
MDD Error ellipse: s-maj=5.6km s-min=3.3km az=137.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=150.0.
LDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=146.0.

ISC IV 26 23 11 48.7–.86 43.94N–.02 7.76E–.02 18–3 166 0-5
GEN IV 26 23 11 49.7 43.91N 7.72E 6 2.3L ¶16463255
ISCJB IV 26 23 11 49.2–.32 43.95N–.02 7.72E–.03 27–2 2.3L
ROM IV 26 23 11 49.3–.23 43.95N 7.73E 7–3 2.4L
STR IV 26 23 11 49.7–.27 43.95N 7.75E 5 2.6L
LDG IV 26 23 11 49.7–.10 43.95N 7.74E 3 2.8,2.8L
CSEM IV 26 23 11 49.0–.20 43.98N 7.72E 5 2.8L,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.2km az=162.0.
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=41.0.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=155.0.
ISC VI 19 06 42 46.7–.85 43.89N–.02 7.75E–.02 14–4 72 0-2
ISCJB VI 19 06 42 46.5–.46 43.91N–.02 7.71E–.03 12–3 ¶16658751
CSEM VI 19 06 42 46.8–.18 43.90N 7.75E 8 2.5L
LDG VI 19 06 42 46.9–.22 43.87N 7.80E 2 2.5L,2.1
ROM VI 19 06 42 46.6–.13 43.94N 7.69E 3–2 1.9L,1.8
GEN VI 19 06 42 47.0 43.91N 7.71E 8 1.7L,1.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.6km az=139.1.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=83.0.
LDG Event type ke. Error ellipse: s-maj=4.6km s-min=3.4km az=54.0.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.4km az=59.0.

(380) Corsica.

ISC VI 21 05 30 35.2–1.1 43.78N–.03 8.61E–.03 16–9 72 0-2
ISCJB VI 21 05 30 35.1–.70 43.77N–.03 8.59E–.04 10–3 ¶16658786
CSEM VI 21 05 30 35.5–.28 43.76N 8.60E 10 2.7L
GEN VI 21 05 30 37.1 43.86N 8.58E 3 1.8L
ROM VI 21 05 30 37.1–.34 43.89N 8.54E 7–1 2.3,1.9L
LDG VI 21 05 30 38.3–.19 43.62N 8.47E 10 2.4L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.7km az=31.7.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.4km az=35.0.
ROM Event type ke. Error ellipse: s-maj=3.4km s-min=1.9km az=127.0.
LDG Event type ke. Error ellipse: s-maj=5.6km s-min=2.7km az=48.0.
ISC VI 23 13 50 33.9–1.1 43.81N–.03 8.63E–.02 19–3 87 0-3
ISCJB VI 23 13 50 33.9–.52 43.83N–.03 8.57E–.03 13–3 ¶16646402
CSEM VI 23 13 50 34.7–.24 43.84N 8.59E 15 2.8L
LDG VI 23 13 50 34.2–.09 43.81N 8.65E 10 2.8,2.7L
ROM VI 23 13 50 35.0–.17 43.86N 8.59E 10–5 2.4,2.3L
GEN VI 23 13 50 35.2 43.85N 8.59E 2 2.2L,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=0.1.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=179.0.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=51.0.
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.9km az=4.0.

(381) Central Italy.

ISC I 02 09 04 10.1–1.1 43.47N–.04 13.89E–.03 7–10 42 0-2
ROM I 02 09 04 08.5–.41 43.49N 13.96E 5 2.5,2.0L ¶15925532
CSEM I 02 09 04 09.8–.21 43.43N 13.91E 2 2.5,2.0L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=4.5km s-min=2.6km az=50.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=142.0.
ROM I 06 06 54 00.3–.08 43.12N 12.81E 10–0 1.7,1.1L
CSEM I 06 06 54 00.3 43.12N 12.81E 10 1.7,1.1L ¶600305016
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 09 10 58 21.5–.95 42.11N–.02 13.28E–.02 6–7 3.7b 320 0-75
ISCJB I 09 10 58 20.0–.25 42.11N–.01 13.22E–.02 4–2 3.6b ¶15910809
ROM I 09 10 58 20.4–.09 42.11N 13.34E 8–1 3.8L
IDC I 09 10 58 21.3–1.1 42.14N 13.17E 0 3.9,3.6
CSEM I 09 10 58 21.0–.14 42.09N 13.22E 2 4.2L,3.6
LDG I 09 10 58 21.3–.07 42.12N 13.33E 2 3.4L,3.6
PDG I 09 10 58 21.6–.59 42.10N 13.32E 1–1 3.9L,3.6
PRU I 09 10 58 22.3 42.05N 13.55E 0 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=38.2.
ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.8km az=83.0.
IDC Error ellipse: s-maj=19.1km s-min=16.4km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=39.0.
LDG Event type ke. Error ellipse: s-maj=2.2km s-min=1.3km az=44.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.8km az=0.0.
ROM I 09 14 42 33.2–.23 42.60N 13.10E 7–2 1.5,0.8L
¶600305170
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.0km az=49.0.
ROM I 10 03 30 47.5–.07 42.27N 13.51E 10–0 1.8,0.9L
¶600305239
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.3km az=27.0.
ROM I 12 00 16 55.5–.10 42.24N 13.49E 4–2 1.8,0.8L
¶600305340
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=0.3km az=22.0.
ISC I 13 18 55 17.9–.64 42.11N–.02 13.26E–.02 4–4 172 0-10
ROM I 13 18 55 17.6–.08 42.11N 13.33E 8–1 3.5L ¶15925971
ISCJB I 13 18 55 18.1–.23 42.12N–.02 13.26E–.02 11–2 3.5L
CSEM I 13 18 55 18.7–.13 42.11N 13.24E 2 4.0L
PRU I 13 18 55 18.4 41.95N 13.54E 0 4.0L
LDG I 13 18 55 19.2–.12 42.04N 13.24E 10 3.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=10.4.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=172.0.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=26.0.
ROM I 15 20 06 01.6–.25 43.78N 13.33E 9–1 1.8,1.3L
CSEM I 15 20 06 02.0–.36 43.82N 13.32E 2 1.8L,1.3L ¶600305560
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.3km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.1km az=174.0.
ROM I 16 03 45 57.4–.24 43.77N 13.32E 9–0 2.0,1.1L
CSEM I 16 03 45 57.5–.19 43.79N 13.33E 12 2.0,1.1L ¶600305587
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.4km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=155.0.
ISC I 16 06 51 51.1–.99 43.41N–.03 13.71E–.03 33–4 60 0-2
ISCJB I 16 06 51 50.6–.57 43.43N–.03 13.75E–.05 42–9 ¶600305595
CSEM I 16 06 51 50.7–.15 43.41N 13.73E 40 2.6L
ROM I 16 06 51 50.1–.21 43.39N 13.75E 35–1 2.2,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=135.0.
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=84.0.
ISC I 17 23 21 10.4–.76 42.59N–.02 13.23E–.02 13–4 147 0-7
IASPE I 17 23 21 10.0–.82 42.58N–.02 13.24E–.02 14–5 ¶15934886
ROM I 17 23 21 09.9–.07 42.57N 13.26E 11–0 3.0,2.8L
CSEM I 17 23 21 10.1–.10 42.58N 13.20E 8 3.5L,2.8L
PDG I 17 23 21 10.2–.26 42.57N 13.25E 14–0 2.9L,2.8L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=65.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=57.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=33.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.8km az=0.0.
ROM I 19 08 34 41.2–.45 43.73N 10.42E 5 2.0,1.6L
CSEM I 19 08 34 42.4–.69 43.73N 10.40E 2 1.6L,1.6L ¶600305754
GEN I 19 08 34 42.4 43.77N 10.45E 2 1.6L,1.6L
ROM Event type ke. Error ellipse: s-maj=6.9km s-min=2.4km az=89.0.
CSEM Event type ke. Error ellipse: s-maj=17.1km s-min=7.9km az=96.0.
ISC I 19 14 06 59.0–.85 42.58N–.02 12.55E–.02 7–5 115 0-7
IASPE I 19 14 06 58.7–.93 42.58N–.02 12.56E–.02 9–5 ¶15938529
ISCJB I 19 14 06 58.3–.31 42.58N–.02 12.55E–.03 10–2
CSEM I 19 14 06 58.8–.14 42.58N 12.55E 2 3.8L
ROM I 19 14 06 58.4–.08 42.59N 12.58E 7–0 3.1,3.0L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=65.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=145.2.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=58.0.
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=57.0.
ROM I 19 17 36 28.0–.05 43.43N 12.46E 8–0 1.8,1.4L
CSEM I 19 17 36 28.0 43.43N 12.46E 8 1.8,1.4L ¶600305767
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.5km az=108.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 19 19 36 55.1–.99 43.47N–.02 10.59E–.02 18–4 126 0-7
GEN I 19 19 36 54.7 43.43N 10.62E 2 2.6L ¶15940545
CSEM I 19 19 36 54.3–.19 43.42N 10.55E 5 2.8L
ROM I 19 19 36 54.8–.14 43.46N 10.62E 4 2.9,2.5L
ISCJB I 19 19 36 55.3–.36 43.50N–.02 10.50E–.03 27–4 2.9,2.5L
LDG I 19 19 36 55.5–.06 43.43N 10.59E 5 2.8L,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.1km az=14.0.
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=1.2km az=59.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=38.1.
LDG Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=166.0.
ROM I 20 14 01 11.6–.06 42.87N 13.12E 8–0 2.1L
CSEM I 20 14 01 11.6 42.87N 13.12E 8 2.1L ¶602426841
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 20 14 01 38.7–.85 42.89N–.02 13.28E–.03 12–5 59 0-2
ROM I 20 14 01 41.5–.06 42.87N 13.12E 8–0 2.1L ¶601902800
ISCJB I 20 14 01 42.0–.39 42.88N–.02 13.12E–.04 9–4 2.1L
CSEM I 20 14 01 42.0–.15 42.88N 13.12E 8 2.5L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=155.4.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=65.0.
ROM I 20 14 02 11.5–.07 42.88N 13.12E 8–0 1.6L
CSEM I 20 14 02 11.5 42.88N 13.12E 8 1.6L ¶602426842
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM I 26 03 12 19.1–.06 43.50N 12.38E 10–0 1.8,1.0L
CSEM I 26 03 12 19.1 43.50N 12.38E 10 1.8,1.0L ¶600306232
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM I 26 07 20 37.7–.06 43.36N 12.54E 11–0 1.5,0.9L
CSEM I 26 07 20 37.7 43.36N 12.54E 11 1.5,0.9L ¶600306241
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=94.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM I 26 15 51 27.3–.06 43.50N 12.38E 10–0 1.9,1.2L
CSEM I 26 15 51 27.3 43.50N 12.38E 10 1.9,1.2L ¶600306254
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM I 29 17 41 35.5–.42 43.39N 12.48E 7–5 1.3,0.8L
CSEM I 29 17 41 35.5 43.39N 12.48E 7 1.3,0.8L ¶600306408
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=1.4km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 02 04 42 45.0–.09 42.40N 13.35E 13–1 1.6,1.2L
¶600311320
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=61.0.
ROM II 03 20 42 10.2–.06 42.60N 13.12E 11–0 1.8L,1.5
¶600312573
ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.8km az=28.0.
ROM II 03 20 44 04.1–.08 42.59N 13.13E 11 1.9,1.8L
CSEM II 03 20 44 04.1 42.59N 13.13E 11 1.9,1.8L ¶600312574
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=65.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 04 12 26 03.5–.15 42.62N 13.12E 9–1 1.6L
¶600312609
ROM Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=32.0.
ROM II 08 22 13 24.7–.07 43.01N 12.99E 12–1 1.5,1.0L
¶600312805
ROM Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=146.0.
ROM II 09 00 45 10.6–.25 43.40N 12.48E 8–3 1.7,0.9L
CSEM II 09 00 45 10.6 43.40N 12.48E 8 1.7,0.9L ¶600312822
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.3km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 09 13 34 13.2–.06 42.98N 13.13E 11–0 1.7,1.2L
CSEM II 09 13 34 13.2 42.98N 13.13E 11 1.7,1.2L ¶600312840
ROM Event type ke. Error ellipse: s-maj=0.8km s-min=0.7km az=50.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 09 22 35 47.3–.16 43.01N 12.86E 6–1 1.9,1.1L
CSEM II 09 22 35 47.3 43.01N 12.86E 6 1.9,1.1L ¶600312861
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=75.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 10 04 06 00.2–.86 42.30N–.02 13.65E–.02 6–6 72 0-3
ROM II 10 04 05 59.9–.14 42.30N 13.64E 7–1 2.5,2.0L ¶16018373
ISCJB II 10 04 06 00.6–.41 42.29N–.02 13.65E–.05 7–6 2.5,2.0L
CSEM II 10 04 06 00.6–.17 42.30N 13.63E 2 2.4L,2.0L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.2km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=3.2km az=151.6.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=71.0.
ROM II 11 05 04 28.2–.38 42.75N 13.04E 12–8 1.5,0.9L
CSEM II 11 05 04 28.2 42.75N 13.04E 12 1.5,0.9L ¶600313828
ROM Event type ke. Error ellipse: s-maj=4.6km s-min=2.1km az=105.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 12 17 26 44.1–.82 42.68N–.02 13.01E–.02 11–5 70 0-3
ROM II 12 17 26 43.6–.07 42.68N 13.02E 10–0 2.3,1.9L ¶16022198
IASPE II 12 17 26 44.1–.98 42.68N–.02 13.01E–.02 11–6 2.3,1.9L
ISCJB II 12 17 26 44.1–.42 42.68N–.02 13.00E–.03 10–4 2.3,1.9L
CSEM II 12 17 26 44.2–.11 42.68N 13.00E 8 2.5L,1.9L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=64.0.
IASPE Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=55.2. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=136.8.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=48.0.
ROM II 15 14 23 07.3–.08 42.46N 13.31E 11–0 1.4,1.1L
CSEM II 15 14 23 07.3 42.46N 13.31E 11 1.4,1.1L ¶600314011
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=65.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 15 15 39 39.0–.15 42.45N 13.30E 14–2 1.9,1.4L
CSEM II 15 15 39 39.0 42.45N 13.30E 14 1.9,1.4L ¶600314019
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.2km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 15 15 39 42.9–.12 42.46N 13.30E 15–1 2.0,1.7L
CSEM II 15 15 39 42.9 42.46N 13.30E 15 2.0,1.7L ¶600314022
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 15 20 28 27.6–.92 43.74N–.03 13.38E–.02 14–6 48 0-2
CSEM II 15 20 28 27.9–.20 43.74N 13.38E 2 2.6L ¶600314036
ROM II 15 20 28 27.4–.20 43.75N 13.38E 10–1 2.1,1.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=162.0.
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.4km az=31.0.
ROM II 16 10 47 32.0–.11 43.45N 13.01E 8–1 1.6,1.2L
CSEM II 16 10 47 32.0 43.45N 13.01E 8 1.6,1.2L ¶600314053

ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 17 22 51 52.1–.08 43.20N 12.59E 9–1 1.6,0.9L
CSEM II 17 22 51 52.1 43.20N 12.59E 9 1.6,0.9L ¶600314093
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=75.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 18 04 26 28.1–.20 43.20N 12.59E 9–1 1.5,1.1L
CSEM II 18 04 26 28.1 43.20N 12.59E 9 1.5,1.1L ¶600314116
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 18 04 27 43.3–.21 42.55N 13.09E 8–1 1.2,0.9L
CSEM II 18 04 27 43.3 42.55N 13.09E 8 1.2,0.9L ¶600314117
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 18 09 03 23.9–.11 43.45N 13.03E 9–0 1.6,1.2L
CSEM II 18 09 03 23.9 43.45N 13.03E 9 1.6,1.2L ¶600314126
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 19 03 39 38.6–.29 42.37N 13.37E 8–2 1.7,1.3L
¶600314144
ROM Event type ke. Error ellipse: s-maj=3.9km s-min=1.6km az=43.0.
ROM II 20 08 47 16.4–.04 42.78N 12.74E 10 1.7,1.3L
CSEM II 20 08 47 16.4 42.78N 12.74E 10 1.7,1.3L ¶600314206
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.3km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 20 19 23 54.8–.08 42.53N 13.19E 10–0 2.1,1.4L
CSEM II 20 19 23 54.8 42.53N 13.19E 10 2.1,1.4L ¶600314221
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 22 00 08 56.1–.07 42.36N 13.35E 10–0 2.4,2.3L
CSEM II 22 00 08 56.2–.17 42.37N 13.37E 10 2.8L,2.3L ¶16057216
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=67.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=74.0.
ROM II 22 02 08 47.1–.29 42.35N 13.88E 10 1.9,1.5L
¶600314271
ROM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=173.0.
ROM II 22 08 41 34.5–.12 42.59N 12.71E 6–1 2.1,1.7L
CSEM II 22 08 41 34.5 42.59N 12.71E 6 2.1,1.7L ¶600314286
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.0km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 23 13 39 56.3–.35 42.59N 13.12E 7–3 1.2,1.0L
¶600314315
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=8.0.
ROM II 28 00 14 45.2–.05 42.87N 13.03E 10–0 1.8,1.1L
CSEM II 28 00 14 45.2 42.87N 13.03E 10 1.8,1.1L ¶600314424
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=66.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 28 01 11 14.4–.90 43.55N–.03 13.39E–.02 30–6 84 0-3
ISCJB II 28 01 11 14.2–.39 43.56N–.03 13.44E–.04 29–4 ¶600314425
CSEM II 28 01 11 14.3–.14 43.55N 13.40E 30 2.9L
ROM II 28 01 11 14.2–.20 43.57N 13.38E 32–2 2.4,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.2km az=20.2.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.6km az=3.0.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=79.0.
ROM III 01 14 17 14.8–.16 43.39N 12.49E 8–2 1.6L,1.4
CSEM III 01 14 17 14.8 43.39N 12.49E 8 1.4,1.4 ¶600314476
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=50.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 05 11 13 47.2–.07 42.57N 13.23E 13–0 1.7,1.5L
CSEM III 05 11 13 47.2 42.57N 13.23E 13 1.7,1.5L ¶600314571
ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.3km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 05 17 13 03.9–.08 42.57N 13.24E 10–0 2.1,1.9L
CSEM III 05 17 13 03.9 42.57N 13.24E 10 2.1,1.9L ¶600314577
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 06 02 05 43.0–.08 42.56N 13.11E 10–0 1.8,1.3L
CSEM III 06 02 05 42.5–.20 42.59N 13.10E 19–0 1.8,1.3L ¶600314598
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.6km az=6.0.
ROM III 06 15 57 35.3–.08 42.55N 13.10E 7–0 1.5,1.1L
CSEM III 06 15 57 35.3 42.55N 13.10E 7 1.5,1.1L ¶600314628
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.2km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 06 21 16 00.7–.16 42.57N 13.24E 6–1 1.2,0.7L
CSEM III 06 21 16 00.7 42.57N 13.24E 6 1.2,0.7L ¶600314633
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 08 22 51 55.0–.11 42.04N 13.47E 9–1 2.3,1.7L
CSEM III 08 22 51 55.0 42.04N 13.47E 9 2.3,1.7L ¶600314699
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=76.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 09 04 47 55.6–.25 43.04N 13.23E 30–3 1.7,1.2L
CSEM III 09 04 47 55.6 43.04N 13.23E 30 1.7,1.2L ¶600314720
ROM Event type ke. Error ellipse: s-maj=3.8km s-min=1.8km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 09 11 37 08.6–.38 42.93N 12.71E 9–1 1.6,0.8L
CSEM III 09 11 37 08.6 42.93N 12.71E 9 1.6,0.8L ¶600314729
ROM Event type ke. Error ellipse: s-maj=4.4km s-min=1.5km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 09 17 09 44.7–.25 43.34N 13.26E 8–0 1.8,1.2L
CSEM III 09 17 09 44.7 43.34N 13.26E 8 1.8,1.2L ¶600314743
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=110.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 10 21 30 05.5–.18 42.57N 13.24E 5–1 1.2,0.3L
CSEM III 10 21 30 05.5 42.57N 13.24E 5 1.2,0.3L ¶600314812
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 11 11 30 54.3–.12 43.32N 13.23E 7–1 2.1,1.6L
CSEM III 11 11 30 54.3 43.32N 13.23E 7 2.1,1.6L ¶600314830
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.4km az=88.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 11 15 06 59.6–.09 42.50N 13.07E 11–0 2.0,1.9L
CSEM III 11 15 06 59.6 42.50N 13.07E 11 2.0,1.9L ¶16305001
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 11 18 01 10.1–.17 42.57N 13.24E 6–1 1.2
CSEM III 11 18 01 10.1 42.57N 13.24E 6 1.2 ¶600314836
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 11 22 30 02.9–.07 42.83N 13.08E 11–0 1.5,0.6L
CSEM III 11 22 30 02.9 42.83N 13.08E 11 1.5,0.6L ¶600314839
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=0.7km az=82.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 11 23 42 01.4–.08 43.14N 12.56E 10–1 1.8,0.7L
CSEM III 11 23 42 01.4 43.14N 12.56E 10 1.8,0.7L ¶600314843
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=111.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 12 07 14 38.4–.09 42.55N 13.10E 6–0 1.5,0.9L
CSEM III 12 07 14 38.4 42.55N 13.10E 6 1.5,0.9L ¶600314861
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 12 15 40 04.3–.07 42.96N 13.11E 11–0 1.6,1.4L
CSEM III 12 15 40 04.3 42.96N 13.11E 11 1.6,1.4L ¶600314869
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=102.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 12 22 16 16.7–.15 42.84N 12.93E 8–1 1.7,1.6L
CSEM III 12 22 16 16.7 42.84N 12.93E 8 1.7,1.6L ¶600314874
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ROM III 12 22 19 54.7–.05 43.30N 12.57E 9–0 1.8,1.2L
CSEM III 12 22 19 54.7 43.30N 12.57E 9 1.8,1.2L ¶600314875
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.5km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 13 22 00 37.6–.15 42.54N 13.03E 9–0 1.4,1.1L
CSEM III 13 22 00 37.6 42.54N 13.03E 9 1.4,1.1L ¶600314900
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 13 22 36 33.5–.05 42.87N 12.97E 11–0 1.4L,1.4
CSEM III 13 22 36 33.5 42.87N 12.97E 11 1.4,1.4 ¶600314902
ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=72.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 14 16 28 52.4–.17 42.56N 13.09E 10–1 1.4,0.8L
CSEM III 14 16 28 52.4 42.56N 13.09E 10 1.4,0.8L ¶600314923
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 15 06 20 58.0–.07 42.57N 13.17E 8–0 1.3,1.0L
¶600314946
ROM Event type ke. Error ellipse: s-maj=0.8km s-min=0.2km az=37.0.
ROM III 15 10 26 56.5–.44 43.76N 11.45E 9–4 2.4,2.1L
CSEM III 15 10 26 56.5 43.76N 11.45E 9 2.4,2.1L ¶16315886
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 15 16 02 38.3–.05 42.58N 13.22E 7–0 1.2,1.1L
¶600314957
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.2km az=122.0.
ROM III 15 20 10 00.4–.49 42.53N 13.26E 7–3 1.5L,1.4
¶600314966
ROM Event type ke. Error ellipse: s-maj=5.9km s-min=2.0km az=171.0.
ROM III 16 07 57 27.0–.09 42.55N 13.33E 17–0 1.5L,1.4
CSEM III 16 07 57 27.0 42.55N 13.33E 17 1.4,1.4 ¶600314983
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.6km az=129.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 18 07 21 44.4–.10 43.20N 12.58E 10–0 1.7,1.1L
CSEM III 18 07 21 44.4 43.20N 12.58E 10 1.7,1.1L ¶600315054
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 18 13 07 16.0–.08 42.98N 13.00E 11–0 1.8,1.2L
CSEM III 18 13 07 16.0 42.98N 13.00E 11 1.8,1.2L ¶600315067
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 18 23 59 07.3–.06 43.50N 12.37E 9–0 1.7,0.8L
CSEM III 18 23 59 07.3 43.50N 12.37E 9 1.7,0.8L ¶600315081
ROM Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 24 22 35 53.2–.11 42.21N 13.53E 8–1 1.8,0.9L
CSEM III 24 22 35 53.2 42.21N 13.53E 8 1.8,0.9L ¶600315314
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=93.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 24 23 21 14.6–.27 43.27N 12.79E 8–2 1.6,0.7L
¶600315316
ROM Event type ke. Error ellipse: s-maj=6.5km s-min=1.1km az=55.0.
ROM III 25 09 24 28.2–.52 43.39N 12.50E 18–5 1.6,1.1L
CSEM III 25 09 24 28.2 43.39N 12.50E 18 1.6,1.1L ¶600315342
ROM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=112.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 25 11 33 16.2–.12 43.00N 12.87E 7–1 1.9,1.5L
CSEM III 25 11 33 16.2 43.00N 12.87E 7 1.9,1.5L ¶600315351
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 28 14 31 11.9–.18 43.34N 13.27E 6–0 1.9,1.2L
CSEM III 28 14 31 11.9 43.34N 13.27E 6 1.9,1.2L ¶600315566
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 29 07 57 09.2–.31 42.79N 12.76E 10 1.7,1.3L
CSEM III 29 07 57 09.2 42.79N 12.76E 10 1.7,1.3L ¶600315600
ROM Event type ke. Error ellipse: s-maj=3.6km s-min=1.4km az=78.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 30 19 55 39.7–.13 42.55N 13.10E 9–0 1.7,1.2L
CSEM III 30 19 55 39.7 42.55N 13.10E 9 1.7,1.2L ¶600315671
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=45.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 02 13 15 20.0–.17 43.13N 13.46E 20–3 2.3,2.1L
CSEM IV 02 13 15 20.3–.17 43.11N 13.42E 20 2.7L,2.1L ¶600315831
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=80.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.8km az=79.0.
ROM IV 03 07 34 13.0–.05 42.42N 13.30E 6–0 1.4
¶600315900
ROM Event type ke. Error ellipse: s-maj=0.4km s-min=0.3km az=152.0.
ROM IV 08 15 09 07.4–.14 43.34N 13.22E 5–1 2.1,1.3L
CSEM IV 08 15 09 07.4 43.34N 13.22E 5 2.1,1.3L ¶600316163
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.5km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 09 02 15 15.2–.81 43.80N–.03 11.93E–.03 14–6 52 0-2
ISCJB IV 09 02 15 15.4–.59 43.81N–.04 11.96E–.06 13–6 ¶600316189
ROM IV 09 02 15 15.1–.09 43.81N 11.97E 8–1 2.5,1.9L
CSEM IV 09 02 15 15.7–.11 43.81N 11.96E 10 2.5L,1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=3.8km az=42.9.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=46.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=1.8km az=35.0.
ROM IV 09 06 11 15.6–.12 42.37N 13.40E 10–1 1.9,1.3L
CSEM IV 09 06 11 15.6 42.37N 13.40E 10 1.9,1.3L ¶600316199
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=37.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 10 04 49 20.0–.77 42.54N–.02 13.22E–.02 10–3 117 0-3
IASPE IV 10 04 49 19.9–.89 42.54N–.02 13.22E–.02 8–4 ¶16416037
ISCJB IV 10 04 49 19.5–.32 42.53N–.02 13.20E–.03 14–2
ROM IV 10 04 49 19.8–.06 42.53N 13.22E 8–0 2.7,2.3L
CSEM IV 10 04 49 19.9–.08 42.53N 13.20E 10 3.1L,2.3L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=55.8. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=143.6.
ROM Event type ke. Error ellipse: s-maj=1.0km s-min=0.9km az=67.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=58.0.
ROM IV 11 17 16 45.2–.34 43.40N 12.45E 7–3 1.4,0.8L
CSEM IV 11 17 16 45.2 43.40N 12.45E 7 1.4,0.8L ¶600316328
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=95.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 12 05 03 52.0–.20 42.36N 13.36E 9–1 1.7,1.1L
CSEM IV 12 05 03 52.0 42.36N 13.36E 9 1.7,1.1L ¶600316381
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 13 01 18 29.9–.04 42.86N 12.92E 11–0 1.5,1.0L
¶600316430
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.2km az=112.0.
ROM IV 13 22 45 58.6–.45 43.36N 12.50E 10–4 1.3,0.7L
CSEM IV 13 22 45 58.6 43.36N 12.50E 10 1.3,0.7L ¶600316456
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=75.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 18 19 24 38.9–.09 42.63N 12.78E 10–1 1.7,1.1L
CSEM IV 18 19 24 38.9 42.63N 12.78E 10 1.7,1.1L ¶600316656
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 19 11 49 55.8–.24 42.58N 13.38E 13–1 1.3,0.8L
CSEM IV 19 11 49 55.8 42.58N 13.38E 13 1.3,0.8L ¶600316693
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC IV 19 18 44 19.3–.88 42.91N–.02 13.66E–.02 26–5 84 0-3
ROM IV 19 18 44 18.7–.16 42.91N 13.70E 27–1 2.7,2.4L ¶16447768
ISCJB IV 19 18 44 19.0–.33 42.90N–.03 13.69E–.04 30–3 2.7,2.4L
CSEM IV 19 18 44 19.2–.11 42.91N 13.66E 24–1 2.9L,2.4L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.2km az=44.8.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=114.0.
ROM IV 19 22 47 12.5–.28 42.33N 13.13E 8–3 1.8
¶600316721
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=102.0.
ROM IV 21 00 03 10.8–.05 42.55N 13.30E 14–0 1.9,1.3L
CSEM IV 21 00 03 10.8 42.55N 13.30E 14 1.9,1.3L ¶600316787
ROM Event type ke. Error ellipse: s-maj=0.7km s-min=0.6km az=107.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 21 00 17 35.6–.31 43.35N 12.50E 12–4 1.5,0.6L
CSEM IV 21 00 17 35.6 43.35N 12.50E 12 1.5,0.6L ¶600316788
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=1.3km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 22 05 29 35.8–.09 42.95N 12.89E 10–0 1.6L,1.6
CSEM IV 22 05 29 35.8 42.95N 12.89E 10 1.6,1.6 ¶600316873
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 24 02 34 43.5–.13 43.67N 12.17E 9–0 1.8,0.9L
CSEM IV 24 02 34 43.5 43.67N 12.17E 9 1.8,0.9L ¶600316965
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 24 07 19 04.4–.71 43.53N–.02 12.13E–.01 13–4 3.5b 366 0-66
LDG IV 24 07 19 03.8–.12 43.60N 12.22E 2 3.2L ¶16453000
NEIC IV 24 07 19 03.0 43.60N 12.20E 9 3.3L
ISCJB IV 24 07 19 03.9–.18 43.58N–.01 12.11E–.02 21–2 3.4b,3.1s
ROM IV 24 07 19 03.7–.09 43.59N 12.20E 8–1 3.3L,3.1s
IASPE IV 24 07 19 04.1–.79 43.56N–.02 12.18E–.02 13–5 3.5b,3.1s
IDC IV 24 07 19 04.9–1.8 43.69N 12.31E 0 3.4b,3.4
CSEM IV 24 07 19 04.2–.09 43.54N 12.13E 10 3.6L,3.4
PRU IV 24 07 19 05.8 43.66N 12.58E 0 3.6L,3.4
STR IV 24 07 19 13.3–.41 43.93N 11.46E 10 3.2L,3.4
ISC Event type fe.
LDG Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=42.0.
NEIC Event type fe. Felt at San Giustino. After ROM.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.8km az=18.2.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=21.0.
IASPE Event type fe. Error ellipse: s-maj=2.9km s-min=2.0km az=29.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
IDC Error ellipse: s-maj=29.5km s-min=20.5km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=27.0.
STR Event type ke.
ROM IV 24 13 13 48.3–.08 43.35N 12.52E 10–0 1.5,0.8L
CSEM IV 24 13 13 50.4–.42 43.31N 12.41E 2 1.1L,0.8L ¶600316995
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=86.0.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=6.3km az=96.0.
ROM IV 24 13 23 07.9–.18 42.58N 13.20E 16–2 1.6,1.3L
CSEM IV 24 13 23 07.9 42.58N 13.20E 16 1.6,1.3L ¶600317000
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 24 16 28 02.0–.06 42.85N 13.04E 11–0 1.5,0.8L
CSEM IV 24 16 28 02.0 42.85N 13.04E 11 1.5,0.8L ¶600317008
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=85.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 25 19 39 25.9–.27 42.62N 13.12E 10–2 1.4,0.7L
¶600317083
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=35.0.
ROM IV 26 06 51 05.1–.29 42.90N 12.74E 10–1 1.6,0.6L
¶600317110
ROM Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=114.0.
ROM IV 26 21 38 32.7–.10 43.30N 12.57E 8–1 1.5,0.8L
CSEM IV 26 21 38 32.7 43.30N 12.57E 8 1.5,0.8L ¶600317131
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=66.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 28 01 54 53.8–.10 43.43N 12.47E 7–1 1.7,0.9L
CSEM IV 28 01 54 53.8 43.43N 12.47E 7 1.7,0.9L ¶600317192
ROM Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 28 05 20 01.0–.08 42.40N 13.39E 10–0 2.0,1.5L
CSEM IV 28 05 20 01.0 42.40N 13.39E 10 2.0,1.5L ¶16465964
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 28 05 21 01.7–.08 42.40N 13.39E 8–0 2.0,1.4L
CSEM IV 28 05 21 01.7 42.40N 13.39E 8 2.0,1.4L ¶602945455
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=1.0km az=89.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 29 22 07 34.4–.85 43.23N–.02 10.80E–.02 18–2 128 0-7
ISCJB IV 29 22 07 34.9–.29 43.21N–.02 10.73E–.03 25–3 ¶16485196
CSEM IV 29 22 07 34.8–.12 43.21N 10.77E 10 2.8L
LDG IV 29 22 07 35.9–.07 43.22N 10.83E 10 2.5L
ROM IV 29 22 07 35.4–.10 43.21N 10.84E 7–1 2.8,2.2L
GEN IV 29 22 07 36.0 43.22N 10.78E 2 2.0L,2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=27.6.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=24.0.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=57.0.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=64.0.
ROM IV 30 05 01 58.3–.11 42.59N 13.24E 7–1 2.0,1.5L
CSEM IV 30 05 01 58.3 42.59N 13.24E 7 2.0,1.5L ¶600317314
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 03 09 22 09.1–.21 42.31N 13.31E 10–1 1.4,0.9L
¶601643596
ROM Event type ke. Error ellipse: s-maj=4.8km s-min=0.7km az=40.0.
ISC V 04 19 46 37.8–.91 43.80N–.02 12.66E–.02 45–4 412 0-66
IDC V 04 19 46 31.4–2.0 43.59N 12.92E 0 3.7,3.6L ¶16495934
GEN V 04 19 46 35.6 43.65N 12.70E 4 2.9L,3.6L
ISCJB V 04 19 46 37.0–.17 43.79N–.01 12.64E–.02 68–3 3.2b,3.6L
LDG V 04 19 46 37.5–.08 43.79N 12.78E 30 3.2L,3.6L
ROM V 04 19 46 38.7–.08 43.77N 12.66E 37–0 3.3L,3.6L
CSEM V 04 19 46 38.5–.07 43.81N 12.63E 35 3.6L,3.6L
BEO V 04 19 46 39.9 43.98N 12.91E 28 3.4,3.6L
PRU V 04 19 46 46.3 44.55N 12.90E 0 3.4,3.6L
STR V 04 19 46 48.9–.46 44.45N 11.65E 10 3.4L,3.6L
ISC Event type ke.
IDC Error ellipse: s-maj=69.1km s-min=21.1km az=102.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=2.2km az=20.4.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=146.0.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=55.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=69.0.
BEO Event type ke.
STR Event type ke.
ROM V 08 21 15 10.6–.06 42.50N 13.34E 12–1 2.1L,2.1
CSEM V 08 21 15 10.6 42.50N 13.34E 12 2.1,2.1 ¶602385427
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=62.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 08 21 52 04.5–.25 42.51N 13.32E 14–3 1.4,1.2L
CSEM V 08 21 52 04.5 42.51N 13.32E 14 1.4,1.2L ¶601643933
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=62.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 11 10 27 11.2–.26 42.05N 12.95E 13–4 2.0,1.4L
CSEM V 11 10 27 11.2 42.05N 12.95E 13 2.0,1.4L ¶601644039
ROM Event type ke. Error ellipse: s-maj=3.4km s-min=1.5km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ROM V 11 19 14 55.3–.07 43.42N 12.43E 5–0 1.5,1.0L
CSEM V 11 19 14 55.3 43.42N 12.43E 5 1.5,1.0L ¶603793179
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.3km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 12 05 00 51.0–.13 42.26N 13.71E 10–1 1.9,1.0L
CSEM V 12 05 00 51.0 42.26N 13.71E 10 1.9,1.0L ¶601644097
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 12 18 36 18.4–.12 42.57N 13.08E 9–1 1.5,0.5L
¶601644124
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=122.0.
ISC V 13 20 46 01.1–.62 43.51N–.01 11.12E–.02 8–6 272 0-9
PRU V 13 20 45 59.1 43.35N 10.07E 66 ¶16509653
GEN V 13 20 46 00.8 43.42N 11.21E 6 3.2L
CSEM V 13 20 46 01.8–.09 43.50N 11.18E 10 3.7L
LDG V 13 20 46 02.1–.11 43.54N 11.23E 2 3.3L
ROM V 13 20 46 02.2–.08 43.52N 11.19E 11–0 3.1L
STR V 13 20 46 10.3–.57 43.94N 10.56E 5 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=24.0.
LDG Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=36.0.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=6.0.
STR Event type ke.
ROM V 14 04 44 08.5–.08 43.08N 12.99E 10–0 1.8,1.4L
CSEM V 14 04 44 08.5 43.08N 12.99E 10 1.8,1.4L ¶601644231
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 14 22 41 21.6–.15 42.51N 13.21E 11–0 1.3,0.5L
¶601644264
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=172.0.
CSEM V 14 22 42 08.4 42.53N 13.22E 10 1.2
ROM V 14 22 42 08.4–.39 42.53N 13.22E 10–2 1.2,0.5L ¶601644267
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=167.0.
ROM V 17 22 24 50.2–.05 43.42N 12.32E 9–0 2.0,1.5L
CSEM V 17 22 24 50.2 43.42N 12.32E 9 2.0,1.5L ¶601644360
ROM Event type ke. Error ellipse: s-maj=0.7km s-min=0.6km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 19 16 23 24.0–.12 43.42N 12.47E 7–1 1.6,1.1L
CSEM V 19 16 23 24.0 43.42N 12.47E 7 1.6,1.1L ¶601644477
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=66.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 20 03 28 54.0–.11 42.95N 13.13E 10–0 1.7
CSEM V 20 03 28 54.0 42.95N 13.13E 10 1.7 ¶603793183
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=72.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 21 19 18 00.0–.75 42.38N–.01 13.41E–.02 6–4 333 0-48
LDG V 21 19 17 57.5–.23 42.36N 13.44E 20 3.0L ¶16532051
PRU V 21 19 17 58.3 42.39N 13.27E 0 3.0L
ROM V 21 19 17 58.7–.06 42.37N 13.42E 9–0 3.3L
ISCJB V 21 19 17 58.5–.18 42.39N–.01 13.39E–.02 6–1 3.4b
IASPE V 21 19 17 58.9–.00 42.38N–.02 13.42E–.02 9–4 3.4b
CSEM V 21 19 17 59.0–.09 42.37N 13.37E 2 3.6L
IDC V 21 19 17 59.9–1.3 42.56N 13.19E 0 3.6,3.5
PDG V 21 19 17 59.0–.18 42.42N 13.46E 1–1 3.5L,3.5
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=7.3km s-min=4.9km az=52.0.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=58.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=136.1.
IASPE Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=53.5. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=40.0.
IDC Error ellipse: s-maj=23.5km s-min=14.2km az=93.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=2.6km az=0.0.
ROM V 21 21 34 19.0–.15 43.46N 10.98E 10 1.6,0.9L
¶601644563
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=13.0.
ROM V 22 01 14 34.7–.07 43.30N 12.74E 10–0 1.8,1.2L
CSEM V 22 01 14 34.7 43.30N 12.74E 10 1.8,1.2L ¶601644590
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 22 14 42 11.0–.06 42.89N 12.90E 10 1.4,0.9L
¶601644637
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=92.0.
ROM V 24 11 44 49.3–.22 43.34N 13.26E 6–1 1.8,1.0L
CSEM V 24 11 44 49.3 43.34N 13.26E 6 1.8,1.0L ¶601644705
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.2km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 24 12 40 55.5–.78 43.86N–.02 11.99E–.02 15–5 165 0-7
GEN V 24 12 40 54.6 43.89N 12.08E 1 2.8L ¶602385957
ISCJB V 24 12 40 55.9–.23 43.85N–.02 11.96E–.02 22–3 2.8L
ROM V 24 12 40 55.3–.11 43.87N 12.04E 4–1 3.0L
CSEM V 24 12 40 55.6–.10 43.88N 12.00E 5 3.5L
LDG V 24 12 40 56.2–.08 43.86N 12.01E 2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=19.4.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=46.0.
LDG Event type ke. Error ellipse: s-maj=2.4km s-min=1.5km az=29.0.
ROM V 24 12 41 51.6–.16 43.88N 12.03E 8–1 2.0
CSEM V 24 12 41 51.6 43.88N 12.03E 8 2.0 ¶603241710
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=50.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 24 12 42 33.3–.23 43.89N 12.02E 8–1 1.6,1.4L
CSEM V 24 12 42 33.3 43.89N 12.02E 8 1.6,1.4L ¶603241709
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.2km az=45.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 24 17 47 35.8–.93 43.94N–.04 12.04E–.02 13–7 48 0-2
ISCJB V 24 17 47 36.6–.63 43.91N–.06 12.05E–.05 3–13 ¶16538129
ROM V 24 17 47 36.3–.16 43.88N 12.02E 7–1 2.3,1.9L
CSEM V 24 17 47 36.9–.12 43.90N 12.04E 2 2.8L,1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=3.5km az=29.5.
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=1.0km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=1.5km az=22.0.
ROM V 24 17 54 33.1–.20 43.89N 12.02E 7–1 2.1,1.4L
CSEM V 24 17 54 33.8–.33 43.91N 12.05E 2 2.1,1.4L ¶601644728
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=1.0km az=37.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=4.8km az=22.0.
ROM V 24 18 03 00.0–.13 43.88N 12.02E 7–1 2.0,1.9L
CSEM V 24 18 03 00.0 43.88N 12.02E 7 2.0,1.9L ¶601644730
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 24 18 25 45.0–.77 43.84N–.02 11.97E–.01 16–4 222 0-7
ROM V 24 18 25 44.5–.15 43.87N 12.02E 6–1 3.1,2.9L ¶16538131
CSEM V 24 18 25 45.0–.11 43.82N 11.96E 15 3.1L,2.9L
ISCJB V 24 18 25 45.0–.21 43.85N–.02 11.94E–.02 24–2 3.1L,2.9L
LDG V 24 18 25 45.1–.11 43.90N 12.03E 2 3.1L,2.9L
GEN V 24 18 25 45.5 43.99N 11.96E 15 2.8L,2.9L
PRU V 24 18 25 47.3 43.94N 12.26E 1 2.8L,2.9L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=32.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=21.4.
LDG Event type ke. Error ellipse: s-maj=3.6km s-min=1.6km az=33.0.
ROM V 24 18 35 35.0–.18 43.90N 12.04E 6–1 2.6,2.0L
CSEM V 24 18 35 35.6–.22 43.91N 12.05E 10 2.7L,2.0L ¶16538132
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=2.3km az=25.0.

ISC V **24 18 40 41.3–.93** **43.89N–.06** **12.04E–.05** **15–7** **30 0-2**
CSEM V 24 18 40 41.5–.12 43.90N 12.04E 15 2.8L **¶601644742**
ROM V 24 18 40 41.7–.23 43.86N 12.00E 11–1 2.3,1.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=1.8km az=26.0.
ROM Event type ke. Error ellipse: s-maj=3.9km s-min=1.5km az=42.0.
ISC V **24 18 50 00.8–.92** **43.89N–.04** **12.01E–.03** **10–7** **44 0-2**
ISCJB V 24 18 50 00.7–.54 43.89N–.05 12.01E–.05 12–8 **¶601644745**
CSEM V 24 18 50 00.8–.15 43.89N 12.01E 10 2.5L
ROM V 24 18 50 00.3–.14 43.89N 12.01E 8–1 2.0,1.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=3.6km az=32.7.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.0km az=22.0.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=35.0.
ISC V **24 19 25 04.3–.77** **43.88N–.02** **11.94E–.02** **17–4** **136 0-6**
LDG V 24 19 25 03.7–.23 43.97N 12.10E 2 2.5L **¶16539600**
ISCJB V 24 19 25 04.6–.25 43.87N–.02 11.94E–.02 23–3 2.5L
CSEM V 24 19 25 04.0–.14 43.90N 11.97E 5 2.7L
ROM V 24 19 25 04.0–.15 43.87N 12.02E 5–1 2.7,2.2L
GEN V 24 19 25 05.0 43.80N 11.89E 2 2.1L,2.2L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.7km s-min=3.0km az=66.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=19.9.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=30.0.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=41.0.
ISC V **24 20 17 41.6–.86** **43.86N–.03** **12.01E–.02** **10–6** **65 0-3**
ROM V 24 20 17 40.8–.16 43.89N 12.04E 7–1 2.7,2.1L **¶16539601**
ISCJB V 24 20 17 41.2–.39 43.87N–.04 12.02E–.04 12–6 2.7,2.1L
CSEM V 24 20 17 41.5–.11 43.87N 12.02E 10 2.8L,2.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.2km az=39.2.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=32.0.
ROM V **24 20 22 17.3–.50** **43.86N** **12.13E** **6–3** **1.9L**
CSEM V 24 20 22 17.8–.17 43.93N 12.19E 2 1.9L **¶602385938**
ROM Event type ke. Error ellipse: s-maj=7.3km s-min=1.8km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=40.0.
ROM V **24 20 22 25.2–.20** **43.88N** **12.00E** **8–1** **2.3L**
CSEM V 24 20 22 25.2–.29 43.94N 12.04E 12 2.3L **¶603788865**
ROM Event type ke. Error ellipse: s-maj=3.3km s-min=1.3km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=2.8km az=27.0.
ISC V **24 21 01 46.5–.79** **43.89N–.02** **12.00E–.02** **15–5** **115 0-6**
GEN V 24 21 01 45.6 43.94N 12.08E 2 2.3L **¶16539605**
ISCJB V 24 21 01 46.8–.28 43.86N–.03 11.96E–.02 23–3 2.3L
CSEM V 24 21 01 46.5–.13 43.87N 11.97E 5 2.6L
ROM V 24 21 01 46.2–.17 43.89N 12.03E 7–1 2.3L
LDG V 24 21 01 47.4–.23 43.86N 12.03E 2 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.5km az=21.2.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.1km az=29.0.
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=37.0.
LDG Event type ke. Error ellipse: s-maj=5.3km s-min=3.1km az=54.0.
ISC V **24 21 23 16.2–.82** **43.80N–.02** **11.95E–.02** **11–6** **62 0-4**
ISCJB V 24 21 23 16.0–.38 43.84N–.03 12.01E–.04 11–5 **¶16539606**
ROM V 24 21 23 15.2–.15 43.89N 12.05E 7–1 2.2L
CSEM V 24 21 23 16.5–.16 43.81N 11.98E 10 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.5km az=41.4.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=39.0.
ISC V **24 21 25 46.0–.85** **43.96N–.02** **12.03E–.02** **17–5** **114 0-7**
ROM V 24 21 25 46.7–.16 43.89N 12.04E 6–1 2.7,2.5L **¶16539607**
LDG V 24 21 25 46.1–.28 43.99N 12.08E 2 2.6L,2.5L
ISCJB V 24 21 25 47.6–.28 43.85N–.02 11.96E–.03 23–3 2.6L,2.5L
CSEM V 24 21 25 47.5–.15 43.85N 11.98E 5 3.0L,2.5L
GEN V 24 21 25 47.6 43.93N 12.00E 6 2.4L,2.5L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=54.0.
LDG Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=82.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=28.2.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=38.0.
ISC V **24 21 31 38.7–.98** **43.87N–.05** **12.01E–.03** **11–7** **48 0-2**
CSEM V 24 21 31 38.7–.21 43.88N 12.02E 10 2.5L **¶601644772**
ROM V 24 21 31 38.0–.20 43.89N 12.03E 6–1 2.4,1.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=2.1km az=28.0.
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=1.2km az=41.0.
ISC V **24 21 44 27.4–.76** **43.83N–.02** **11.97E–.02** **13–5** **204 0-48**
IDC V 24 21 44 25.6–1.6 43.88N 11.97E 0 3.4,3.4b **¶602385936**
ROM V 24 21 44 26.8–.14 43.88N 12.02E 8–1 2.9L,3.4b
GEN V 24 21 44 26.7 43.93N 12.07E 13 2.8L,3.4b
ISCJB V 24 21 44 27.5–.23 43.83N–.02 11.95E–.02 22–2 3.4b,3.4b
CSEM V 24 21 44 27.6–.12 43.81N 11.97E 10 3.0L,3.4b
LDG V 24 21 44 28.6–.21 43.82N 11.99E 2 3.0L,3.4b
PRU V 24 21 44 31.2 44.03N 12.21E 0 3.0L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=33.6km s-min=15.9km az=94.0.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=18.7.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=34.0.
LDG Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=57.0.
ROM V **24 21 45 18.1–.18** **43.89N** **12.03E** **7–1** **1.8L**
CSEM V 24 21 45 18.1 43.89N 12.03E 7 1.8L **¶603742745**
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.0km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V **24 22 03 00.1–.81** **43.84N–.03** **11.98E–.02** **10–5** **3.7b** **119 0-62**
CSEM V 24 22 02 59.6–.10 43.84N 11.99E 10 3.2L **¶16539610**
ROM V 24 22 02 59.2–.12 43.88N 12.02E 8–1 3.1L
ISCJB V 24 22 02 59.7–.30 43.87N–.03 11.97E–.03 17–3 3.6b,2.8s
LDG V 24 22 03 00.8–.21 43.83N 11.98E 2 3.2L,2.8s
IDC V 24 22 03 00.1–1.3 43.95N 12.06E 0 3.5b,3.4
PRU V 24 22 03 02.1 43.87N 12.28E 8 3.5b,3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=28.0.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=26.2.
LDG Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=52.0.
IDC Error ellipse: s-maj=34.6km s-min=17.6km az=97.0.
ISC V **24 22 03 53.3–.73** **43.84N–.02** **11.96E–.01** **9–4** **4.2b** **543 0-80**
ROM V 24 22 03 51.9–.12 43.87N 12.03E 4–1 3.9L **¶16546358**
GEN V 24 22 03 51.3 43.88N 12.10E 3 3.8L
NEIC V 24 22 03 52.0 43.84N 12.03E 1 4.3b
LDG V 24 22 03 52.7–.14 43.88N 12.19E 5 4.1L
IDC V 24 22 03 52.5–.94 43.87N 12.16E 0 3.9,3.8
PRU V 24 22 03 52.6 43.88N 12.19E 0 4.3,3.8
ISCJB V 24 22 03 52.8–.21 43.84N–.01 11.93E–.02 20–2 4.1b,3.0s
CSEM V 24 22 03 53.2–.08 43.82N 11.95E 10 4.4b,4.0L
MOS V 24 22 03 53.6–1.2 43.97N 11.98E 17 4.4b,4.0L
STR V 24 22 04 17.3–.22 44.83N 9.83E 10 3.7L,4.0L
ISC Event type fe.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=15.0.
NEIC Event type fe. Felt [III] at Cesena, Faenza and Forli. After ROM.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=3.0km az=11.0.
IDC Error ellipse: s-maj=15.4km s-min=13.8km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=14.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=28.0.
MOS Error ellipse: s-maj=6.3km s-min=4.2km az=81.1.
STR Event type ke.
ROM V **24 22 24 30.2–.11** **42.52N** **13.22E** **6–0** **1.6,0.7L**
¶16539613
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=167.0.

ROM V **24 22 25 14.8–.16** **43.89N** **12.02E** **7–1** **2.5,1.8L**
CSEM V 24 22 25 14.8 43.89N 12.02E 7 2.5,1.8L **¶603798877**
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V **24 22 36 58.7–.71** **43.85N–.02** **11.93E–.02** **14–5** **146 0-7**
ISCJB V 24 22 36 58.8–.24 43.88N–.02 11.93E–.02 23–3 **¶16539614**
IASPE V 24 22 36 58.7–.82 43.85N–.03 11.94E–.02 13–5
ROM V 24 22 36 58.3–.09 43.87N 12.01E 4–1 2.9,2.5L
CSEM V 24 22 36 58.4–.11 43.90N 11.95E 5 2.8L,2.5L
GEN V 24 22 36 58.2 43.89N 11.99E 4 2.4L,2.5L
LDG V 24 22 36 59.7–.15 43.87N 11.95E 2 2.7L,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=18.0.
IASPE Event type ke. Error ellipse: s-maj=4.2km s-min=2.3km az=29.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=28.0.
LDG Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=47.0.
ISC V **24 22 43 01.5–.79** **43.89N–.02** **11.97E–.01** **16–5** **126 0-6**
ISCJB V 24 22 43 01.5–.27 43.91N–.02 11.94E–.02 23–3 **¶16539616**
CSEM V 24 22 43 01.8–.10 43.86N 11.97E 16–1 2.8L
ROM V 24 22 43 01.3–.12 43.89N 12.02E 6–1 2.4L
LDG V 24 22 43 02.5–.21 43.85N 12.00E 2 2.5L
GEN V 24 22 43 02.7 43.86N 11.91E 13 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.5km az=19.8.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.8km az=20.0.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.0km az=7.0.
LDG Event type ke. Error ellipse: s-maj=4.7km s-min=3.1km az=55.0.
ISC V **24 22 59 55.2–.81** **43.91N–.02** **11.99E–.02** **14–5** **88 0-3**
ROM V 24 22 59 55.0–.14 43.89N 12.02E 6–1 2.5,2.1L **¶16539617**
CSEM V 24 22 59 55.5–.14 43.88N 12.00E 5 2.9L,2.1L
GEN V 24 22 59 57.1 43.97N 11.89E 4 1.9L,2.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=52.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.2km az=19.0.
ISC V **24 23 16 45.6–1.1** **43.97N–.04** **12.03E–.02** **15–8** **56 0-3**
ROM V 24 23 16 46.8–.18 43.87N 12.05E 5–1 2.5,1.8L **¶601644798**
ISCJB V 24 23 16 47.5–.42 43.85N–.03 12.00E–.03 13–5 2.5,1.8L
CSEM V 24 23 16 47.7–.16 43.84N 12.01E 10 2.5L,1.8L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.4km az=33.5.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=25.0.
ISC V **24 23 18 44.2–.73** **43.83N–.02** **11.91E–.02** **17–3** **143 0-7**
PRU V 24 23 18 37.4 43.18N 12.33E 0 **¶602385932**
GEN V 24 23 18 41.7 43.93N 12.17E 1 2.9L
LDG V 24 23 18 42.9–.16 43.93N 11.99E 10 3.2L
ROM V 24 23 18 43.6–.18 43.89N 12.03E 6–2 2.1L
ISCJB V 24 23 18 44.2–.27 43.88N–.02 11.98E–.03 19–3 2.1L
CSEM V 24 23 18 44.1–.09 43.87N 11.98E 10 2.1L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.7km s-min=2.2km az=53.0.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=6.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=18.7.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=48.0.
ISC V **24 23 18 52.9–.86** **43.94N–.03** **12.03E–.03** **12–6** **61 0-48**
IDC V 24 23 18 49.4–1.4 44.37N 11.80E 0 3.5b,3.3 **¶16539618**
ISCJB V 24 23 18 52.0–.58 44.01N–.04 12.03E–.05 18–7 3.5b,2.7s
ROM V 24 23 18 52.8–.18 43.90N 12.03E 7 3.0L,2.7s
CSEM V 24 23 18 52.8 43.90N 12.03E 7 3.0L,2.7s
ISC Event type ke.
IDC Error ellipse: s-maj=42.6km s-min=19.0km az=103.0.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=31.2.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V **24 23 26 06.8–.18** **43.89N** **12.02E** **7–1** **2.2,1.5L**
CSEM V 24 23 26 06.8 43.89N 12.02E 7 2.2,1.5L **¶601644800**
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=41.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V **24 23 32 55.4–.82** **43.96N–.02** **12.04E–.02** **17–5** **122 0-6**
LDG V 24 23 32 56.7–.10 43.91N 12.03E 10 2.4L **¶16539620**
ROM V 24 23 32 56.5–.16 43.88N 12.03E 6–1 2.8,2.3L
CSEM V 24 23 32 56.8–.11 43.85N 11.96E 15 3.1L,2.3L
ISCJB V 24 23 32 57.0–.26 43.87N–.02 11.95E–.02 21–3 3.1L,2.3L
GEN V 24 23 32 57.1 43.89N 11.98E 4 2.1L,2.3L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.2km s-min=1.3km az=60.0.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=22.9.
ISC V **25 00 05 42.4–.80** **43.86N–.02** **12.00E–.01** **11–5** **3.6b** **299 0-66**
GEN V 25 00 05 40.6 43.94N 12.13E 9 3.3L **¶16539621**
IDC V 25 00 05 41.7–1.3 43.92N 12.03E 0 3.6,3.5
CSEM V 25 00 05 41.7–.10 43.86N 12.01E 5 3.6L,3.5
ROM V 25 00 05 41.6–.19 43.87N 12.02E 6–2 3.1L,3.5
ISCJB V 25 00 05 42.3–.21 43.88N–.02 11.96E–.02 20–2 3.5b,3.5
LDG V 25 00 05 43.8–.17 43.74N 12.09E 10 3.4L,3.5
PRU V 25 00 05 44.0 43.90N 12.28E 6 3.4L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=31.9km s-min=19.7km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=45.0.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.4km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=20.2.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=19.0.
ISC V **25 00 07 58.9–.78** **43.84N–.02** **11.99E–.02** **12–5** **3.5b** **221 0-66**
IDC V 25 00 07 57.8–1.4 43.87N 12.13E 0 3.5,3.3 **¶602386032**
CSEM V 25 00 07 58.8–.09 43.84N 12.00E 10 3.4L,3.3
ROM V 25 00 07 58.1–.15 43.87N 12.03E 7–1 3.1L,3.3
ISCJB V 25 00 07 58.7–.23 43.87N–.02 11.96E–.02 21–2 3.4b,3.3
LDG V 25 00 07 59.2–.39 43.71N 12.19E 10 3.3L,3.3
GEN V 25 00 07 59.0 43.90N 11.99E 14 3.1L,3.3
PRU V 25 00 08 02.0 43.95N 12.32E 7 3.1L,3.3
ISC Event type ke.
IDC Error ellipse: s-maj=36.6km s-min=20.8km az=101.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=28.0.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.2km az=8.7.
LDG Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=98.0.
ROM V **25 00 10 53.4–.16** **43.88N** **12.03E** **7–2** **2.1,1.8L**
CSEM V 25 00 10 53.4 43.88N 12.03E 7 2.1,1.8L **¶603241713**
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=59.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V **25 00 29 30.6–.22** **43.88N** **12.02E** **7–2** **2.2,1.3L**
CSEM V 25 00 29 30.6 43.88N 12.02E 7 2.2,1.3L **¶601644821**
ROM Event type ke. Error ellipse: s-maj=3.3km s-min=1.6km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V **25 01 42 01.4–.83** **43.85N–.02** **12.01E–.02** **11–5** **145 0-7**
GEN V 25 01 41 59.8 43.91N 12.12E 5 2.7L **¶16539625**
ISCJB V 25 01 42 00.9–.26 43.85N–.02 11.99E–.02 15–2 2.7L
ROM V 25 01 42 00.5–.14 43.89N 12.05E 5–1 2.7L
CSEM V 25 01 42 01.5–.11 43.84N 12.01E 10 3.0L
LDG V 25 01 42 02.7–.63 43.77N 12.04E 2 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=14.7.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=39.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=30.0.
LDG Event type ke. Error ellipse: s-maj=12.7km s-min=7.6km az=99.0.
ISC V **25 02 04 32.4–1.0** **43.95N–.04** **12.03E–.03** **18–2** **44 0-2**

ISCJB V 25 02 04 33.8–.62 43.88N–.05 12.02E–.06 15–8 ¶601644854
ROM V 25 02 04 33.4–.21 43.88N 12.04E 6–2 2.4,1.8L
CSEM V 25 02 04 34.1–.20 43.88N 12.02E 10 2.5L,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.6km s-min=3.9km az=37.5.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.6km az=26.0.
ISC V 25 02 26 06.6–1.1 43.98N–.04 11.99E–.02 15–8 52 0-2
ROM V 25 02 26 07.7–.20 43.90N 12.03E 6–2 2.5,1.8L ¶601644862
ISCJB V 25 02 26 08.2–.53 43.89N–.04 12.00E–.05 13–7 2.5,1.8L
CSEM V 25 02 26 08.5–.15 43.88N 12.00E 10 2.5L,1.8L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=7.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=3.8km az=39.8.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=29.0.
ISC V 25 04 06 54.9–.85 43.88N–.03 12.03E–.02 12–6 81 0-6
ROM V 25 04 06 54.6–.15 43.88N 12.03E 5–1 2.5L ¶16539632
ISCJB V 25 04 06 55.0–.39 43.90N–.03 12.01E–.03 18–4 2.5L
CSEM V 25 04 06 55.1–.14 43.88N 12.03E 10 2.9L
LDG V 25 04 06 56.9–.56 43.83N 12.01E 5 2.6L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.1km az=24.7.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.1km az=30.0.
LDG Event type ke. Error ellipse: s-maj=15.1km s-min=7.9km az=47.0.
ISC V 25 04 07 46.4–.77 43.85N–.02 11.98E–.02 12–5 3.7b 263 0-70
ROM V 25 04 07 45.5–.15 43.86N 12.02E 5–1 3.4L ¶16575933
ISCJB V 25 04 07 46.1–.21 43.87N–.02 11.95E–.02 21–2 3.5b,3.0s
GEN V 25 04 07 46.5 43.93N 11.95E 2 3.2L,3.0s
CSEM V 25 04 07 46.3–.09 43.84N 11.98E 10 3.7L,3.0s
LDG V 25 04 07 47.1–.20 43.79N 12.07E 5 3.5L,3.0s
PRU V 25 04 07 47.9 43.95N 12.23E 0 3.5L,3.0s
IDC V 25 04 07 47.2–1.4 44.12N 12.20E 0 3.7,3.6
STR V 25 04 08 01.9–.53 44.34N 10.48E 5 3.4L,3.6
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=13.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=179.1.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=23.0.
LDG Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=121.0.
IDC Error ellipse: s-maj=28.6km s-min=21.1km az=110.0.
STR Event type ke.
ISC V 25 04 30 36.7–.87 43.87N–.04 12.01E–.03 12–7 50 0-2
CSEM V 25 04 30 36.5–.17 43.88N 12.00E 15 2.9L ¶16539633
ROM V 25 04 30 36.2–.22 43.88N 12.03E 7–2 2.5,2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.3km az=22.0.
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=48.0.
ROM V 25 05 36 10.2–.19 43.46N 12.44E 6–2 1.7
CSEM V 25 05 36 10.2 43.46N 12.44E 6 1.7 ¶603788867
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 05 36 50.7–.16 43.88N 12.03E 6–1 2.3L
CSEM V 25 05 36 51.2–.14 43.88N 12.01E 10 3.1L ¶602386027
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=13.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=19.0.
ISC V 25 11 14 16.8–.87 43.92N–.03 12.00E–.02 15–6 67 0-2
ROM V 25 11 14 16.8–.15 43.90N 12.02E 7–1 2.6,2.3L ¶16543244
CSEM V 25 11 14 17.0–.14 43.90N 12.00E 15 2.9L,2.3L
GEN V 25 11 14 18.6 43.91N 11.90E 4 2.1L,2.3L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=1.8km az=27.0.
ROM V 25 12 03 47.2–.16 43.89N 12.01E 7–1 2.4,2.0L
CSEM V 25 12 03 47.2 43.89N 12.01E 7 2.4,2.0L ¶603788869
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.2km az=41.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 12 04 22.0–.10 43.88N 12.00E 8–0 1.5L
CSEM V 25 12 04 22.0 43.88N 12.00E 8 1.5L ¶602386009
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 12 04 58.3–.10 43.88N 12.00E 8–0 1.8L
CSEM V 25 12 04 58.3 43.88N 12.00E 8 1.8L ¶603788870
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 12 07 41.7–.81 43.89N–.02 11.97E–.02 12–5 146 0-7
ISCJB V 25 12 07 41.7–.26 43.89N–.02 11.96E–.02 17–4 ¶602386005
ROM V 25 12 07 41.1–.14 43.88N 12.01E 6–1 2.8L
CSEM V 25 12 07 41.3–.10 43.90N 12.00E 5 3.4L
GEN V 25 12 07 42.0 43.98N 11.95E 2 2.5L
LDG V 25 12 07 43.0–.92 43.75N 11.98E 2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=25.9.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=39.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=36.0.
LDG Event type ke. Error ellipse: s-maj=19.6km s-min=9.1km az=86.0.
CSEM V 25 12 08 29.9 43.89N 12.01E 7 1.6
ROM V 25 12 08 29.9–.12 43.89N 12.01E 7–1 1.7L,1.6 ¶16544930
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=30.0.
ROM V 25 12 09 55.1–.17 43.90N 12.01E 7–1 1.9,1.7L
CSEM V 25 12 09 55.1 43.90N 12.01E 7 1.9,1.7L ¶602386004
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 12 10 42.4–.19 43.89N 12.02E 7–1 2.1L
CSEM V 25 12 10 42.4 43.89N 12.02E 7 2.1L ¶603742747
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.1km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 12 11 32.2–.11 43.89N 12.01E 8–0 1.8L
CSEM V 25 12 11 32.2 43.89N 12.01E 8 1.8L ¶602386000
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 12 12 11.7–.12 43.89N 12.00E 8–0 1.8L
CSEM V 25 12 12 11.7 43.89N 12.00E 8 1.8L ¶602385995
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 25 12 12 53.5–.15 43.89N 12.02E 7–1 2.3L
CSEM V 25 12 12 54.1–.17 43.90N 12.01E 10 2.9L ¶603742748
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.1km az=27.0.
ROM V 25 12 13 10.1–.17 43.88N 12.00E 8–1 2.2L
CSEM V 25 12 13 10.1 43.88N 12.00E 8 2.2L ¶16544932
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.2km az=37.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 12 20 30.1–.94 43.88N–.04 12.00E–.03 10–7 52 0-2
ISCJB V 25 12 20 29.8–.55 43.90N–.06 12.02E–.06 12–9 ¶16544933
ROM V 25 12 20 29.3–.14 43.90N 12.02E 6–1 2.5,1.8L
CSEM V 25 12 20 30.0–.16 43.89N 12.01E 10 2.5L,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=3.7km az=36.6.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.0km az=27.0.
ROM V 25 15 42 01.9–.23 43.89N 12.01E 6–2 1.2L
CSEM V 25 15 42 01.9 43.89N 12.01E 6 1.2L ¶601645000
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=1.4km az=45.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 25 21 56 05.6–.82 43.88N–.03 12.03E–.02 13–6 69 0-3
ROM V 25 21 56 05.3–.12 43.87N 12.03E 8–1 2.5,2.0L ¶601645049
CSEM V 25 21 56 05.5–.14 43.87N 12.02E 15 2.6L,2.0L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=27.0.

ROM V 25 22 59 26.6–.11 42.86N 13.26E 9–1 1.6,0.9L
CSEM V 25 22 59 26.6 42.86N 13.26E 9 1.6,0.9L ¶601645060
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 26 01 51 41.9–.81 43.85N–.02 11.99E–.02 12–5 77 0-3
ISCJB V 26 01 51 41.5–.32 43.88N–.03 12.01E–.03 12–3 ¶602386074
ROM V 26 01 51 41.4–.13 43.87N 12.02E 7–1 2.1L
CSEM V 26 01 51 41.9–.14 43.83N 11.98E 15 2.7L
GEN V 26 01 51 42.2 43.76N 12.09E 44 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=29.0.
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=38.0.
ROM V 26 01 52 17.1–.14 43.87N 12.02E 8–1 2.1L
CSEM V 26 01 52 17.1 43.87N 12.02E 8 2.1L ¶603241716
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 26 04 04 00.1–.87 43.88N–.04 12.02E–.03 12–7 50 0-3
ISCJB V 26 04 03 59.9–.62 43.89N–.05 11.99E–.07 16–9 ¶601645087
CSEM V 26 04 03 59.9–.16 43.88N 12.01E 12 2.5L
ROM V 26 04 03 59.7–.13 43.88N 12.01E 10–1 2.4,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.6km az=138.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.3km az=22.0.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=41.0.
ISC V 26 04 26 25.4–.84 43.88N–.04 12.00E–.03 9–6 58 0-2
ISCJB V 26 04 26 24.8–.59 43.90N–.04 11.98E–.04 13–6 ¶17216372
ROM V 26 04 26 24.6–.20 43.89N 12.00E 7–1 2.4,1.9L
CSEM V 26 04 26 25.1–.21 43.89N 11.99E 10 2.6L,1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.8km az=31.9.
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.8km az=20.0.
ISC V 29 07 25 25.3–1.0 43.13N–.02 11.01E–.03 18–4 58 0-3
ISCJB V 29 07 25 24.9–.38 43.13N–.02 11.01E–.06 15–6 ¶16575418
LDG V 29 07 25 24.8–.99 43.14N 11.06E 2 2.4L
CSEM V 29 07 25 25.0–.15 43.13N 10.94E 5 3.2L
ROM V 29 07 25 25.4–.13 43.10N 11.02E 8 2.3,2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=3.6km az=13.9.
LDG Event type ke. Error ellipse: s-maj=21.7km s-min=15.7km az=102.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=92.0.
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=1.3km az=97.0.
ISC V 31 05 23 05.7–.76 43.86N–.02 11.98E–.02 12–4 156 0-7
ISCJB V 31 05 23 05.5–.23 43.87N–.02 11.96E–.02 21–3 ¶16551599
CSEM V 31 05 23 05.2–.11 43.87N 11.99E 10 2.9L
ROM V 31 05 23 05.2–.13 43.87N 12.00E 8–1 3.0,2.5L
LDG V 31 05 23 06.6–.15 43.81N 11.99E 5 2.8L,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=25.2.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=42.0.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=27.0.
LDG Event type ke. Error ellipse: s-maj=4.2km s-min=2.2km az=63.0.
ROM VI 02 07 25 22.1–.07 42.58N 13.24E 11–0 1.9,1.7L
CSEM VI 02 07 25 22.1 42.58N 13.24E 11 1.9,1.7L ¶601651056
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 03 17 07 10.3–.09 43.89N 11.98E 9–1 0.9L
CSEM VI 03 17 07 10.3 43.89N 11.98E 9 0.9L ¶601651172
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 05 08 49.6–.10 43.68N 12.14E 10–1 1.5,0.6L
CSEM VI 04 05 08 49.6 43.68N 12.14E 10 1.5,0.6L ¶601651282
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 05 49 38.8–.09 43.68N 12.13E 10–1 1.7,0.9L
CSEM VI 04 05 49 38.8 43.68N 12.13E 10 1.7,0.9L ¶603801072
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.1km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 05 50 26.3–.06 43.68N 12.13E 10–0 2.5,2.0L
CSEM VI 04 05 50 26.3 43.68N 12.13E 10 2.5,2.0L ¶17216381
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 12 54 00.0–.08 43.87N 11.99E 10–1 0.9L
¶601651373
ROM Event type ke. Error ellipse: s-maj=3.0km s-min=0.9km az=17.0.
ROM VI 04 12 54 04.0–.07 43.89N 11.99E 9–0 1.8,1.3L
CSEM VI 04 12 54 04.0 43.89N 11.99E 9 1.8,1.3L ¶601651376
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 13 12 00.3–.11 43.87N 11.99E 11–1 1.2L
CSEM VI 04 13 12 00.3 43.87N 11.99E 11 1.2L ¶601651387
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 13 12 03.8–.07 43.88N 11.99E 9–0 2.2,1.5L
CSEM VI 04 13 12 03.8 43.88N 11.99E 9 2.2,1.5L ¶601651390
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=13.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 36 28.7–.09 43.67N 12.11E 10–0 1.9,1.2L
CSEM VI 04 14 36 28.7 43.67N 12.11E 10 1.9,1.2L ¶601651418
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=55.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 40 15.1–.11 43.88N 11.98E 7–1 2.2L
CSEM VI 04 14 40 15.1 43.88N 11.98E 7 2.2L ¶601651423
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 41 10.3–.11 43.88N 11.98E 8–1 1.5L
CSEM VI 04 14 41 10.3 43.88N 11.98E 8 1.5L ¶603731173
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 41 30.9–.09 43.88N 11.98E 8–0 2.4L
CSEM VI 04 14 41 30.9 43.88N 11.98E 8 2.4L ¶603731172
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 44 23.9–.10 43.88N 11.98E 8–0 2.0L
CSEM VI 04 14 44 23.9 43.88N 11.98E 8 2.0L ¶603731174
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 44 55.3–.10 43.88N 11.98E 8–0 2.0L
CSEM VI 04 14 44 55.3 43.88N 11.98E 8 2.0L ¶602728887
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 04 14 48 12.3–.83 43.88N–.03 11.99E–.02 10–5 74 0-2
ISCJB VI 04 14 48 12.2–.46 43.88N–.03 11.98E–.03 14–4 ¶603482751
ROM VI 04 14 48 12.1–.10 43.87N 11.98E 7–1 2.4L
CSEM VI 04 14 48 12.4–.13 43.87N 11.98E 12 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=2.6km az=30.4.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=1.8km az=29.0.
ROM VI 04 14 48 27.9–.53 43.89N 11.98E 8–6 1.6L
CSEM VI 04 14 48 27.9 43.89N 11.98E 8 1.6L ¶602728885
ROM Event type ke. Error ellipse: s-maj=3.5km s-min=1.6km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 14 51 12.7–.10 43.88N 11.98E 9–1 2.1,1.4L
CSEM VI 04 14 51 12.7 43.88N 11.98E 9 2.1,1.4L ¶603731175
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 04 14 51 59.7–.82 43.89N–.03 11.99E–.02 12–5 60 0-2
ISCJB VI 04 14 51 59.7–.50 43.90N–.03 11.98E–.03 14–4 ¶17216385
CSEM VI 04 14 51 59.8–.13 43.88N 11.98E 15 3.0L

ROM VI 04 14 51 59.7–.09 43.88N 11.98E 8–0 2.5,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.0km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=1.9km az=32.0.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=26.0.
ISC VI 04 16 12 03.3–.81 43.85N–.02 11.94E–.02 10–5 3.9b 249 0-70
ROM VI 04 16 12 01.9–.09 43.88N 11.99E 8–1 3.0L ¶602728880
ISCJB VI 04 16 12 01.9–.28 43.89N–.02 11.90E–.02 14–2 3.7b,2.7s
LDG VI 04 16 12 02.2–.21 43.96N 12.12E 2 3.6L,2.7s
CSEM VI 04 16 12 02.0–.14 43.88N 11.95E 5 3.4L,2.7s
IDC VI 04 16 12 02.8–1.0 43.93N 12.19E 0 3.7,3.7b
PRU VI 04 16 12 04.8 44.01N 12.17E 6 3.7,3.7b
STR VI 04 16 12 11.6–.28 44.20N 11.21E 10 3.8L,3.7b
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=166.1.
LDG Event type ke. Error ellipse: s-maj=5.9km s-min=3.2km az=163.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.6km az=28.0.
IDC Error ellipse: s-maj=23.0km s-min=12.8km az=110.0.
STR Event type ke.
ROM VI 04 16 12 04.0–.07 43.88N 11.98E 8–0 3.6L
CSEM VI 04 16 12 04.1–.13 43.88N 11.93E 10 3.9L ¶16557043
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=42.0.
ISC VI 04 16 24 46.0–.74 43.91N–.02 12.00E–.02 12–4 274 0-48
GEN VI 04 16 24 45.7 43.84N 12.04E 1 3.1L ¶16557045
LDG VI 04 16 24 46.6–.22 43.82N 12.09E 2 3.4L
IDC VI 04 16 24 46.0–1.5 43.93N 12.17E 0 3.6b,3.5
ISCJB VI 04 16 24 46.5–.21 43.92N–.02 11.91E–.02 21–2 3.6b,3.5
ROM VI 04 16 24 46.7–.12 43.88N 11.98E 7–1 3.1L,3.5
CSEM VI 04 16 24 46.9–.10 43.86N 11.94E 10 3.5L,3.5
PRU VI 04 16 24 50.2 43.99N 12.37E 12 3.5L,3.5
STR VI 04 16 24 54.1–.25 44.21N 11.24E 10 3.4L,3.5
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=5.7km s-min=4.7km az=178.0.
IDC Error ellipse: s-maj=28.1km s-min=14.5km az=107.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=17.5.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=37.0.
STR Event type ke.
ROM VI 04 16 50 39.3–.10 43.89N 11.99E 9–0 1.8,1.1L
CSEM VI 04 16 50 39.3 43.89N 11.99E 9 1.8,1.1L ¶603801073
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 16 51 22.9–.10 43.89N 11.98E 9–0 2.1L
CSEM VI 04 16 51 22.9 43.89N 11.98E 9 2.1L ¶17216387
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 18 06 24.2–.07 43.89N 11.99E 9–0 1.6
CSEM VI 04 18 06 24.2 43.89N 11.99E 9 1.6 ¶603482754
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 04 18 06 51.2–.68 43.85N–.02 11.94E–.01 11–4 4.0b 493 0-75
GEN VI 04 18 06 48.1 43.85N 12.11E 1 3.6L ¶16557055
ROM VI 04 18 06 50.2–.09 43.87N 11.98E 7–1 3.6L
ISCJB VI 04 18 06 50.4–.18 43.90N–.01 11.93E–.01 23–2 3.7b
LDG VI 04 18 06 50.2–.11 43.87N 12.11E 2 3.7L
NEIC VI 04 18 06 50.0 43.89N 11.98E 9 3.3L
PDG VI 04 18 06 50.7–.95 43.89N 11.98E 12–1 3.7L
CSEM VI 04 18 06 50.7–.08 43.85N 11.95E 10 3.8L
IDC VI 04 18 06 50.3–.83 43.93N 12.03E 0 3.8,3.7
PRU VI 04 18 06 52.8 43.91N 11.99E 21 3.8,3.7
STR VI 04 18 06 59.8–.21 44.27N 11.19E 10 3.7L,3.7
ISC Event type fe.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=10.0.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.4km az=17.9.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=2.3km az=5.0.
NEIC Event type fe. Felt at Florence and in parts of Emilia-Romagna and Tuscany. After ROM.
PDG Event type ke. Error ellipse: s-maj=1.1km s-min=1.2km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=23.0.
IDC Error ellipse: s-maj=14.3km s-min=10.8km az=96.0.
STR Event type ke.
ROM VI 04 19 00 32.9–.08 43.89N 11.98E 10–0 1.2L
CSEM VI 04 19 00 32.9 43.89N 11.98E 10 1.2L ¶603798860
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 19 00 40.1–.10 43.87N 11.98E 7–1 2.3,1.9L
CSEM VI 04 19 00 40.1 43.87N 11.98E 7 2.3,1.9L ¶603798859
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 19 01 13.8–.08 43.89N 11.99E 9–0 1.9L
CSEM VI 04 19 01 13.8 43.89N 11.99E 9 1.9L ¶602728869
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 19 24 45.6–.10 43.89N 11.98E 9–1 1.8,1.3L
CSEM VI 04 19 24 45.6 43.89N 11.98E 9 1.8,1.3L ¶17216393
ROM Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 04 19 25 44.3–.82 43.89N–.02 12.00E–.02 12–5 94 0-2
ROM VI 04 19 25 44.5–.10 43.88N 11.99E 8–1 2.7,2.1L ¶603482753
CSEM VI 04 19 25 44.5–.15 43.90N 12.01E 10 2.8L,2.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=1.8km az=28.0.
ROM VI 04 20 13 52.9–.08 43.87N 11.98E 8–0 2.8,2.3L
GEN VI 04 20 13 52.6 44.00N 12.06E 12 2.2L,2.3L ¶602728865
CSEM VI 04 20 13 53.1–.11 43.83N 11.93E 15 2.7L,2.3L
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=1.7km az=31.0.
ROM VI 04 20 13 57.7–.09 43.83N 11.97E 6–1 2.7,2.3L
CSEM VI 04 20 13 58.1–.13 43.83N 11.94E 15 2.8L,2.3L ¶603798861
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=35.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.2km az=40.0.
ISC VI 04 22 18 36.8–.75 43.93N–.01 12.02E–.01 14–4 341 0-9
LDG VI 04 22 18 36.7–.19 43.84N 12.18E 2 3.4L ¶16557181
GEN VI 04 22 18 36.1 43.94N 12.17E 10 3.4L
ISCJB VI 04 22 18 37.5–.18 43.88N–.01 11.93E–.02 23–2 3.4L
ROM VI 04 22 18 37.5–.10 43.86N 11.99E 7–1 3.4L
CSEM VI 04 22 18 37.7–.08 43.85N 11.96E 12 3.6L
PRU VI 04 22 18 39.0 43.95N 12.34E 0 3.6L
STR VI 04 22 18 46.7–.30 44.21N 11.06E 10 3.4L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.9km s-min=3.5km az=160.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=13.9.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=30.0.
STR Event type ke.
ROM VI 04 22 51 35.5–.09 43.87N 11.99E 7–1 2.5,2.0L
GEN VI 04 22 51 33.3 44.00N 12.22E 9 1.9L,2.0L ¶601651670
CSEM VI 04 22 51 35.5 43.87N 11.99E 7 2.5,2.0L
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 04 23 00 03.9–.05 43.87N 11.98E 9–0 1.7,1.5L
¶603814385
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.5km az=20.0.
ROM VI 04 23 00 25.5–.09 43.88N 11.97E 8–1 2.6,1.8L
GEN VI 04 23 00 24.5 43.91N 12.07E 8 2.0L,1.8L ¶17216396
CSEM VI 04 23 00 25.7–.09 43.88N 11.96E 10 2.7L,1.8L
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=26.0.
ROM VI 05 06 22 48.0–.19 43.90N 11.97E 9–1 1.9,1.0L
CSEM VI 05 06 22 48.0 43.90N 11.97E 9 1.9,1.0L ¶601653203
ROM Event type ke. Error ellipse: s-maj=3.3km s-min=1.1km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 05 10 41 40.2–.08 43.88N 12.00E 9–0 2.1,1.2L
CSEM VI 05 10 41 40.2 43.88N 12.00E 9 2.1,1.2L ¶601653274
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 06 11 26 43.4–.76 43.86N–.02 11.95E–.01 14–4 185 0-7
ISCJB VI 06 11 26 43.5–.21 43.86N–.02 11.92E–.02 22–2 ¶602728917
ROM VI 06 11 26 43.2–.09 43.88N 11.99E 8–1 2.8L
GEN VI 06 11 26 43.2 44.04N 12.03E 7 2.6L
CSEM VI 06 11 26 43.3–.11 43.88N 11.94E 5 3.2L
LDG VI 06 11 26 44.1–.13 43.85N 11.97E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=13.9.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=37.0.
LDG Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=56.0.
ROM VI 06 11 26 54.0–.09 42.44N 13.26E 14–1 1.6
CSEM VI 06 11 26 54.0 42.44N 13.26E 14 1.6 ¶603801074
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=95.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 06 11 27 33.8–.10 43.90N 11.99E 9–1 2.7L
CSEM VI 06 11 27 33.8–.20 43.91N 12.00E 15 3.1L ¶603801075
GEN VI 06 11 27 34.3 44.15N 12.02E 13 2.6L
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=2.0km az=30.0.
ROM VI 06 16 55 09.0–.26 43.90N 11.99E 8–3 1.8,1.3L
¶601653445
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=173.0.
ROM VI 07 15 06 16.0–.03 43.48N 12.55E 10–0 1.6L,1.6
CSEM VI 07 15 06 16.0 43.48N 12.55E 10 1.6,1.6 ¶601653539
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.4km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 07 17 25 25.5–.78 43.87N–.02 11.98E–.02 11–5 154 0-7
GEN VI 07 17 25 24.6 44.04N 12.12E 7 2.6L ¶16570222
ISCJB VI 07 17 25 25.5–.25 43.90N–.02 11.97E–.02 19–3 2.6L
CSEM VI 07 17 25 25.6–.09 43.86N 11.98E 12 3.1L
ROM VI 07 17 25 25.3–.11 43.89N 12.00E 8–1 2.7L
LDG VI 07 17 25 25.6–.49 43.76N 12.08E 2 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.3km az=28.2.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=32.0.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.0km az=21.0.
LDG Event type ke. Error ellipse: s-maj=9.2km s-min=6.7km az=112.0.
ROM VI 07 17 26 25.4–.20 43.89N 12.00E 8–2 1.4L
¶603814384
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=167.0.
ROM VI 07 17 40 07.0–.12 43.89N 12.00E 10–1 1.5
CSEM VI 07 17 40 07.0 43.89N 12.00E 10 1.5 ¶17216403
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 07 17 40 39.9–.09 43.89N 11.97E 8–0 2.1,1.9L
CSEM VI 07 17 40 39.9 43.89N 11.97E 8 2.1,1.9L ¶603798863
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 08 00 57 35.6–.08 43.91N 12.00E 10–0 1.7,1.2L
¶601653709
ROM Event type ke. Error ellipse: s-maj=0.8km s-min=0.2km az=170.0.
ROM VI 08 00 57 55.3–.09 43.89N 12.00E 8–1 1.5,1.4L
CSEM VI 08 00 57 55.3 43.89N 12.00E 8 1.5,1.4L ¶601653706
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 08 00 58 16.7–.07 43.89N 12.00E 9–0 1.4,1.3L
CSEM VI 08 00 58 16.7 43.89N 12.00E 9 1.4,1.3L ¶601653712
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 08 01 59 07.0–.17 42.27N 13.61E 5–2 1.9,1.4L
CSEM VI 08 01 59 07.0 42.27N 13.61E 5 1.9,1.4L ¶601653725
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 08 01 59 59.3–.17 43.50N 12.26E 6–1 1.5,0.9L
CSEM VI 08 01 59 59.3 43.50N 12.26E 6 1.5,0.9L ¶601653728
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=47.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 08 03 17 44.9–.09 43.89N 11.99E 8–0 2.4,1.9L
CSEM VI 08 03 17 44.9 43.89N 11.99E 8 2.4,1.9L ¶601653746
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 08 09 58 40.5–.11 43.68N 12.13E 8–1 2.1,1.5L
¶601653764
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=9.0.
ROM VI 09 10 16 38.0–.14 43.33N 13.23E 3–1 2.1,1.4L
CSEM VI 09 10 16 38.0 43.33N 13.23E 3 2.1,1.4L ¶601653839
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 09 10 48 50.6–.06 43.40N 12.48E 7–0 1.3,1.1L
CSEM VI 09 10 48 50.6 43.40N 12.48E 7 1.3,1.1L ¶601653840
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.3km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 09 23 01 29.1–.05 43.41N 12.50E 8–0 2.2,2.0L
CSEM VI 09 23 01 30.0–.10 43.40N 12.50E 5 2.6L,2.0L ¶602729070
ROM Event type ke. Error ellipse: s-maj=0.7km s-min=0.7km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=17.0.
ROM VI 09 23 02 28.6–.10 43.16N 12.79E 9–0 1.6L
CSEM VI 09 23 02 28.6 43.16N 12.79E 9 1.6L ¶603801076
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.0km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 10 00 13 27.5–.23 43.90N 12.02E 8–1 1.8,1.1L
CSEM VI 10 00 13 27.5 43.90N 12.02E 8 1.8,1.1L ¶601653893
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=2.1km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 10 01 15 25.0–.10 43.89N 11.99E 8–0 1.9,1.2L
CSEM VI 10 01 15 25.0 43.89N 11.99E 8 1.9,1.2L ¶601653896
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 10 04 25 27.5–.80 43.81N–.02 11.97E–.02 10–5 138 0-6
ISCJB VI 10 04 25 27.1–.23 43.81N–.02 11.97E–.02 14–2 ¶602729108
CSEM VI 10 04 25 27.7–.08 43.80N 11.97E 10 3.2L
ROM VI 10 04 25 27.2–.08 43.82N 11.98E 7–0 2.7L
LDG VI 10 04 25 28.5–.29 43.78N 11.98E 2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=34.6.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.3km az=36.0.
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=11.0.
LDG Event type ke. Error ellipse: s-maj=7.3km s-min=4.5km az=49.0.
ROM VI 10 04 26 25.1–.05 43.82N 11.99E 9–0 1.6L,1.6
CSEM VI 10 04 26 25.1 43.82N 11.99E 9 1.6,1.6 ¶603801077
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 10 05 23 02.1–.07 43.82N 11.99E 8–1 1.6L
CSEM VI 10 05 23 02.1 43.82N 11.99E 8 1.6L ¶603482760
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=12.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 10 05 23 35.7–.07 43.82N 11.99E 9–0 1.9,1.6L
CSEM VI 10 05 23 35.7 43.82N 11.99E 9 1.9,1.6L ¶603482761
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 10 05 24 22.5–.81 43.82N–.02 11.98E–.02 12–5 82 0-4
ROM VI 10 05 24 22.5–.07 43.82N 11.98E 9–0 2.4L ¶17216456
CSEM VI 10 05 24 22.6–.10 43.82N 11.98E 15 3.2L

ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.5km az=30.0.
ROM VI 10 06 17 54.5–.09 43.88N 12.00E 9–1 1.6L
CSEM VI 10 06 17 54.5 43.88N 12.00E 9 1.6L ¶603795433
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=6.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 10 06 18 07.6–.08 43.88N 12.00E 8–0 1.7L
CSEM VI 10 06 18 07.6 43.88N 12.00E 8 1.7L ¶17216457
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 12 10 15 51.4–.13 43.89N 11.99E 8–1 2.1,1.4L
CSEM VI 12 10 15 51.4 43.89N 11.99E 8 2.1,1.4L ¶601654139
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 12 19 13 52.5–.06 43.90N 11.98E 8–0 1.5,0.7L
¶601654149
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.4km az=88.0.
ROM VI 14 23 09 22.0–.10 42.68N 11.93E 8–1 2.4L
CSEM VI 14 23 09 22.4–.13 42.69N 11.95E 2 3.0L ¶602729159
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=125.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=139.0.
ROM VI 14 23 10 00.1–.19 42.68N 11.95E 8–1 1.9L
CSEM VI 14 23 10 00.1 42.68N 11.95E 8 1.9L ¶603801079
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.6km az=127.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 17 11 33 10.3–.79 43.12N–.02 12.51E–.01 13–4 231 0-7
GEN VI 17 11 33 08.0 43.27N 12.87E 2 3.1L ¶16621540
LDG VI 17 11 33 09.9–.24 43.13N 12.56E 2 3.2L
ISCJB VI 17 11 33 10.1–.23 43.11N–.01 12.53E–.02 11–1 3.2L
ROM VI 17 11 33 10.2–.08 43.13N 12.56E 9–0 3.3L
CSEM VI 17 11 33 10.5–.13 43.09N 12.51E 5 4.0L
PRU VI 17 11 33 13.0 43.22N 12.76E 0 4.0L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=5.7km s-min=3.7km az=161.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=142.9.
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=147.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=173.0.
ISC VI 18 03 52 13.0–1.1 44.00N–.07 13.84E–.05 17–10 40 1-1
ROM VI 18 03 52 10.6–.28 44.09N 13.96E 10 2.5,1.8L ¶601654413
CSEM VI 18 03 52 12.7–.32 43.97N 13.84E 10 2.8L,1.8L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=4.7km az=144.0.
ISC VI 18 21 42 19.1–.88 43.06N–.02 13.26E–.03 9–7 99 0-5
ISCJB VI 18 21 42 18.7–.30 43.06N–.02 13.25E–.04 11–4 ¶17216531
CSEM VI 18 21 42 18.9–.12 43.06N 13.25E 5 3.5L
ROM VI 18 21 42 18.3–.09 43.07N 13.24E 7–0 2.8,2.7L
VIE VI 18 21 42 19.1–.60 43.05N 13.27E 8 2.5b,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.4km az=165.5.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=76.0.
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=70.0.
VIE Event type ke. Error ellipse: s-maj=22.8km s-min=4.2km az=83.0.
ISC VI 19 05 26 48.5–.80 43.89N–.03 11.99E–.02 12–5 71 0-5
ISCJB VI 19 05 26 48.4–.34 43.91N–.03 11.99E–.04 14–4 ¶16632965
ROM VI 19 05 26 48.7–.11 43.88N 12.00E 8–1 2.6,2.3L
CSEM VI 19 05 26 49.1–.18 43.88N 11.97E 10 2.7L,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.8km az=37.5.
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=163.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.2km az=62.0.
ROM VI 19 13 25 26.4–.56 42.27N 13.42E 11–3 1.9,1.5L
CSEM VI 19 13 25 26.4 42.27N 13.42E 11 1.9,1.5L ¶601654464
ROM Event type ke. Error ellipse: s-maj=12.1km s-min=2.6km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 20 03 15 06.9–.13 42.53N 13.24E 12–0 1.5,1.3L
¶601654532
ROM Event type ke. Error ellipse: s-maj=5.5km s-min=1.2km az=60.0.
ROM VI 20 23 04 26.4–.16 43.88N 12.01E 10–1 1.9,1.1L
CSEM VI 20 23 04 26.4 43.88N 12.01E 10 1.9,1.1L ¶601654585
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.0km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 21 01 40 16.0–.15 42.61N 13.08E 12–1 1.6,0.8L
CSEM VI 21 01 40 16.0 42.61N 13.08E 12 1.6,0.8L ¶601654607
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 21 02 10 50.3–.76 43.80N–.01 12.33E–.01 18–4 200 0-7
LDG VI 21 02 10 49.7–.05 43.80N 12.35E 20 2.6L ¶16638818
GEN VI 21 02 10 49.3 43.59N 12.35E 1 2.3L
IASPE VI 21 02 10 50.2–.78 43.79N–.02 12.33E–.02 16–4 2.3L
ROM VI 21 02 10 50.4–.10 43.80N 12.34E 14–2 2.6L
CSEM VI 21 02 10 50.3–.08 43.79N 12.34E 12 3.4L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=171.0.
IASPE Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=29.6. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=39.0.
ROM VI 21 04 43 46.9–.19 43.36N 11.13E 5 1.7,0.9L
¶601654615
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=29.0.
ISC VI 22 12 53 14.9–.81 43.88N–.02 11.95E–.02 11–5 82 0-4
ISCJB VI 22 12 53 14.5–.34 43.89N–.03 11.96E–.03 11–3 ¶17216535
CSEM VI 22 12 53 14.8–.11 43.87N 11.95E 10 2.8L
ROM VI 22 12 53 14.4–.13 43.88N 11.97E 8–1 2.7,2.3L
GEN VI 22 12 53 16.0 43.83N 11.91E 7 2.2L,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.8km az=28.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=37.0.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=35.0.
ROM VI 22 14 38 35.3–.15 43.29N 12.51E 11–1 1.6,1.1L
CSEM VI 22 14 38 35.3 43.29N 12.51E 11 1.6,1.1L ¶601654748
ROM Event type ke. Error ellipse: s-maj=4.3km s-min=1.0km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 22 20 14 14.8–.07 43.63N 12.58E 11–0 1.7,1.0L
CSEM VI 22 20 14 14.8 43.63N 12.58E 11 1.7,1.0L ¶601654762
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 24 10 02 12.3–.26 43.33N 13.29E 5–0 1.9,1.1L
¶601654899
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=0.8km az=77.0.
ISC VI 26 00 08 45.1–.78 43.89N–.02 11.96E–.02 12–4 118 0-7
ISCJB VI 26 00 08 45.0–.30 43.93N–.03 11.97E–.02 15–4 ¶16681513
ROM VI 26 00 08 45.0–.09 43.88N 11.96E 8–1 2.7,2.3L
CSEM VI 26 00 08 45.2–.11 43.89N 11.98E 10 3.1L,2.3L
GEN VI 26 00 08 46.0 43.82N 11.92E 2 2.2L,2.3L
LDG VI 26 00 09 05.0–.16 44.74N 10.80E 25 2.2L,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=23.1.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.7km az=36.0.
LDG Event type ke. Error ellipse: s-maj=4.1km s-min=1.7km az=84.0.
ROM VI 26 00 18 09.0–.12 43.90N 11.96E 10–1 1.1L
¶603482806
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.3km az=170.0.
ISC VI 26 00 18 55.6–.77 43.90N–.02 11.93E–.02 15–4 121 0-7
ISCJB VI 26 00 18 54.9–.35 43.96N–.03 11.92E–.03 18–4 ¶16681514
ROM VI 26 00 18 55.6–.10 43.89N 11.97E 8–0 2.5,2.1L
CSEM VI 26 00 18 55.6–.10 43.89N 11.95E 15 2.9L,2.1L
LDG VI 26 00 18 55.8–.16 43.91N 12.00E 2 2.2L,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.0km az=11.3.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.7km az=28.0.
LDG Event type ke. Error ellipse: s-maj=3.3km s-min=1.7km az=86.0.
ROM VI 26 12 28 29.2–.08 42.66N 13.16E 11–1 1.8,1.7L
CSEM VI 26 12 28 29.2 42.66N 13.16E 11 1.8,1.7L ¶601655101
ROM Event type ke. Error ellipse: s-maj=3.0km s-min=0.8km az=78.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 06 04 20.3–.11 43.44N 13.00E 9–1 1.7,0.6L
CSEM VI 29 06 04 20.3 43.44N 13.00E 9 1.7,0.6L ¶601655293
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 09 40 35.6–.23 42.97N 13.02E 15–3 1.9L,1.7
CSEM VI 29 09 40 35.6 42.97N 13.02E 15 1.7,1.7 ¶601655304
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=53.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 19 48 56.7–.14 42.32N 13.49E 10–1 1.8,0.9L
CSEM VI 29 19 48 56.7 42.32N 13.49E 10 1.8,0.9L ¶601655327
ROM Event type ke. Error ellipse: s-maj=4.7km s-min=0.9km az=28.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 21 02 07.6–.41 42.37N 13.50E 7–2 2.0,1.1L
CSEM VI 29 21 02 07.6 42.37N 13.50E 7 2.0,1.1L ¶601655332
ROM Event type ke. Error ellipse: s-maj=6.0km s-min=2.0km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 21 54 49.8–.04 43.38N 12.51E 9–0 1.8,1.1L
CSEM VI 29 21 54 49.8 43.38N 12.51E 9 1.8,1.1L ¶601655335
ROM Event type ke. Error ellipse: s-maj=0.5km s-min=0.5km az=24.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 30 04 18 55.8–.09 42.86N 12.99E 9–0 1.5,0.7L
¶601655374
ROM Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=50.0.

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ISC II 09 00 45 18.6–1.1 43.96N–.02 15.89E–.02 7–9 281 1-45
BEO II 09 00 45 18.0–.77 44.00N 15.66E 0 3.1 ¶16019927
ISCJB II 09 00 45 19.0–.52 44.00N–.01 15.84E–.02 2–4 3.3b
ROM II 09 00 45 18.7–.11 43.91N 15.95E 5 2.9L
PDG II 09 00 45 19.3–.62 43.95N 15.84E 2–1 3.2L
IDC II 09 00 45 19.7–2.1 44.09N 16.19E 0 3.5,3.3
CSEM II 09 00 45 19.7–.09 43.95N 15.83E 2 3.4L,3.3
VIE II 09 00 45 19.0–.57 43.87N 16.05E 10 3.1L,2.8b
PRU II 09 00 45 20.7 43.98N 16.02E 0 3.1L,2.8b
LDG II 09 00 45 20.2–.11 43.99N 15.77E 2 3.1L,2.8b
ATH II 09 00 46 10.0 41.97N 19.99E 33–50 1.2L,2.8b
ISC Event type ke.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=141.4.
ROM Event type ke. Error ellipse: s-maj=3.5km s-min=1.4km az=144.0.
PDG Event type ke. Error ellipse: s-maj=1.0km s-min=0.9km az=90.0.
IDC Error ellipse: s-maj=24.9km s-min=19.6km az=63.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=25.0.
VIE Error ellipse: s-maj=5.8km s-min=4.8km az=151.0.
LDG Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=153.0.
ATH Event type ke. Error ellipse: s-maj=57.1km s-min=8.1km az=310.0. Analyst: F.HALARIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 11 00 37 57.7–1.2 43.91N–.07 15.77E–.07 10 14 1-2
¶602903501
ISC Event type ke.
ISC II 11 14 52 53.2–1.6 42.70N–.04 17.07E–.04 20–5 82 0-4
BEO II 11 14 52 51.9–1.1 42.80N 16.95E 9–3 2.5 ¶16168058
ISCJB II 11 14 52 52.5–.86 42.67N–.04 17.01E–.04 20–6 2.5
CSEM II 11 14 52 53.3–.21 42.67N 17.06E 20–0 2.6L
PDG II 11 14 52 54.5–.21 42.73N 17.24E 24–0 2.5L
ISC Event type ke.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=3.6km az=31.5.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=33.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.2km az=0.0.
ISC III 07 10 05 33.2–1.1 42.13N–.02 17.63E–.02 2–10 146 1-6
CSEM III 07 10 05 32.7–.13 42.12N 17.60E 2 3.1L ¶16401037
ROM III 07 10 05 33.2–.14 42.14N 17.60E 6–1 3.1L
PDG III 07 10 05 34.0–.68 42.10N 17.67E 9–1 3.1L
BEO III 07 10 05 35.6–.78 42.15N 17.71E 15–4 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.2km az=138.0.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=155.0.
PDG Event type ke. Error ellipse: s-maj=1.0km s-min=1.9km az=0.0.
BEO Event type ke.
ISC IV 01 06 35 13.8–1.3 43.89N–.02 15.54E–.02 3–11 95 1-4
CSEM IV 01 06 35 14.3–.09 43.89N 15.55E 2 2.9 ¶600315769
ROM IV 01 06 35 14.3–.18 43.84N 15.64E 10 2.9,2.4L
BEO IV 01 06 35 14.6–.85 43.82N 15.60E 0 2.8,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=12.0.
ROM Event type ke. Error ellipse: s-maj=7.8km s-min=1.7km az=149.0.
BEO Event type ke.
ISC IV 08 00 06 55.1–2.9 42.9N–.10 15.59E–.08 5–19 33 2-3
BEO IV 08 00 06 55.1–1.2 42.98N 15.56E 0 2.5 ¶601258582
CSEM IV 08 00 06 57.2–.86 43.04N 15.80E 5 2.5L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=21.8km s-min=8.7km az=31.0.
ISC IV 09 18 11 27.1–1.1 41.94N–.02 17.50E–.03 18–6 53 1-4
ISCJB IV 09 18 11 24.6–.39 41.97N–.03 17.52E–.05 9–9 ¶16415857
CSEM IV 09 18 11 26.1–.24 41.95N 17.49E 10 2.1L
ROM IV 09 18 11 27.9–.53 41.87N 17.35E 5 2.7,2.3L
BEO IV 09 18 11 34.2–.98 42.20N 17.73E 0 2.1,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=2.9km az=31.4.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.5km az=121.0.
ROM Event type ke. Error ellipse: s-maj=6.8km s-min=3.7km az=54.0.
BEO Event type ke.
ISC IV 13 07 35 45.8–2.6 42.97N–.08 15.69E–.07 12–14 37 1-6
ISCJB IV 13 07 35 43.9–1.3 43.02N–.06 15.68E–.07 3–6 ¶601242542
CSEM IV 13 07 35 44.9–.39 42.94N 15.65E 10 3.1L
VIE IV 13 07 35 46.1–.97 43.07N 15.71E 5–4 2.6b,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=4.0km az=41.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=3.2km az=40.0.
VIE Error ellipse: s-maj=17.1km s-min=5.4km az=82.0.
ISC IV 15 02 12 54.5–1.2 42.99N–.02 15.63E–.02 6–10 154 1-6
PRU IV 15 02 12 55.1 42.97N 15.49E 0 ¶16436927
ROM IV 15 02 12 55.2–.37 43.01N 15.64E 10 3.0,2.9L
PDG IV 15 02 12 55.5–.64 42.98N 15.62E 16–1 3.1L,2.9L
CSEM IV 15 02 12 57.0–.09 42.99N 15.60E 20 3.0,2.9L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=6.3km s-min=2.9km az=59.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.1km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=172.0.
ISC IV 20 06 45 59.3–1.1 42.99N–.02 15.46E–.03 18–7 252 1-81
CSEM IV 20 06 45 58.6–.07 42.97N 15.62E 2 3.2L ¶16448743
LDG IV 20 06 45 58.2–.06 42.94N 15.57E 10 3.6L
IDC IV 20 06 45 58.3–1.8 43.13N 15.67E 0 3.8,3.5
ROM IV 20 06 45 58.6–.28 43.00N 15.67E 10 3.2L,3.5
PDG IV 20 06 45 58.8–.49 43.01N 15.63E 10–1 3.5L,3.5
PRU IV 20 06 45 59.6 43.05N 15.81E 1 3.5L,3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=167.0.

LDG Event type ke. Error ellipse: s-maj=2.2km s-min=1.1km az=23.0.
IDC Error ellipse: s-maj=35.4km s-min=20.2km az=63.0.
ROM Event type ke. Error ellipse: s-maj=4.9km s-min=2.4km az=58.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
ISC IV 20 14 04 37.8–1.1 43.00N–.02 15.46E–.03 20–4 3.6b 316 1-89
ROM IV 20 14 04 36.2–.24 43.00N 15.75E 10 3.4L **¶602212969**
LDG IV 20 14 04 36.7–.08 42.97N 15.62E 10 3.7L
PDG IV 20 14 04 36.6–.51 43.02N 15.68E 7–1 3.5L
CSEM IV 20 14 04 37.7–.07 42.95N 15.63E 10 3.4L
PRU IV 20 14 04 38.5 43.06N 15.54E 0 3.4L
IDC IV 20 14 04 39.7–5.2 43.06N 15.68E 29–34 3.6,3.5
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=4.2km s-min=1.8km az=54.0.
LDG Event type ke. Error ellipse: s-maj=3.3km s-min=1.4km az=22.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=174.0.
IDC Error ellipse: s-maj=32.3km s-min=19.9km az=55.0.
ISC IV 21 22 15 26.5–1.6 42.93N–.03 15.51E–.04 9–14 137 1-6
CSEM IV 21 22 15 25.8–.12 42.96N 15.60E 2 2.4L **¶16456413**
BEO IV 21 22 15 25.8–.78 42.79N 15.54E 0 2.6
ROM IV 21 22 15 26.3–.21 42.97N 15.63E 10 2.4L
VIE IV 21 22 15 26.1–.69 42.95N 15.66E 10 2.6L,2.4b
PRU IV 21 22 15 26.6 42.95N 15.69E 5 2.6L,2.4b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=3.0km az=145.0.
BEO Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=59.0.
VIE Error ellipse: s-maj=9.5km s-min=5.1km az=93.0.
ISC IV 24 06 04 26.0–1.2 43.02N–.02 15.68E–.03 1–11 146 1-6
ROM IV 24 06 04 25.5–.39 43.10N 15.88E 20 2.9L **¶16452998**
CSEM IV 24 06 04 28.9–.10 42.99N 15.62E 20 3.4L
PRU IV 24 06 04 28.6 43.14N 16.00E 0 3.4L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=6.1km s-min=3.2km az=53.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=103.0.
ISC IV 24 13 14 26.5–1.5 44.94N–.04 13.54E–.05 19–3 75 1-2
CSEM IV 24 13 14 25.7–.61 44.97N 13.50E 10 2.8L **¶600316998**
ROM IV 24 13 14 26.7–1.1 44.98N 13.37E 10 2.5,1.8L
VIE IV 24 13 14 28.4–1.4 45.01N 13.70E 0 1.9L,1.5b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.7km az=57.0.
ROM Event type ke. Error ellipse: s-maj=21.9km s-min=11.1km az=102.0.
VIE Error ellipse: s-maj=8.9km s-min=8.0km az=32.0.
ISC IV 26 13 34 30.5–1.1 42.06N–.03 15.60E–.02 19–3 79 0-3
ROM IV 26 13 34 28.8–.43 42.12N 15.67E 6–3 2.7L **¶16460948**
CSEM IV 26 13 34 29.1–.39 42.11N 15.60E 10 2.7L
ISCJB IV 26 13 34 30.1–.75 42.14N–.04 15.61E–.04 15–7 2.7L
ISC Event type ke.
ROM Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC IV 28 05 12 21.1–1.1 40.57N–.03 18.94E–.02 26–13 99 1-5
ROM IV 28 05 12 20.9–.26 40.56N 18.92E 26–4 3.2L **¶16465554**
ISCJB IV 28 05 12 21.3–1.8 40.54N–.03 18.90E–.03 27–18 3.2L
CSEM IV 28 05 12 22.2–.16 40.54N 18.92E 30 3.2L
THE IV 28 05 12 22.5 40.50N 18.87E 30–5 3.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.6km az=20.2.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.5km az=14.0.
THE Event type ke. Error ellipse: s-maj=6.5km s-min=1.5km az=304.0.
ISC IV 28 05 19 39.8–1.1 40.58N–.02 18.90E–.02 13–9 187 1-5
ISCJB IV 28 05 19 39.0–.60 40.49N–.02 18.88E–.02 2–4 **¶16465556**
TIR IV 28 05 19 40.2 40.46N 19.98E 25 3.3L
ROM IV 28 05 19 40.8–.18 40.56N 18.92E 28 3.2L
PDG IV 28 05 19 40.6–.59 40.57N 18.91E 13–1 2.9L
CSEM IV 28 05 19 41.7–.13 40.46N 18.86E 20 2.5L
THE IV 28 05 19 43.3 40.49N 19.16E 6–2 2.9L
BEO IV 28 05 19 48.4–.85 40.98N 19.04E 0 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.5km az=37.9.
ROM Event type ke. Error ellipse: s-maj=4.6km s-min=2.8km az=7.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.1km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=18.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.5km az=200.0.
BEO Event type ke.
ISC V 02 04 20 20.2–1.2 42.99N–.03 15.61E–.03 2–11 115 1-5
ISCJB V 02 04 20 20.1–.81 43.03N–.02 15.65E–.03 4–6 **¶601242614**
CSEM V 02 04 20 20.4–.12 43.00N 15.62E 2 2.6L
ROM V 02 04 20 20.5–.49 43.03N 15.67E 10 2.6L
VIE V 02 04 20 20.9–.66 42.99N 15.67E 8 2.6L,2.5b
BEO V 02 04 20 22.0–1.1 43.01N 15.70E 0 2.8,2.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.2km az=168.8.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=140.0.
ROM Event type ke. Error ellipse: s-maj=7.9km s-min=4.3km az=52.0.
VIE Error ellipse: s-maj=8.9km s-min=5.3km az=78.0.
BEO Event type ke.
ISC V 05 09 38 46.4–1.9 44.30N–.06 14.69E–.08 0–12 39 1-3
CSEM V 05 09 38 46.4–.55 44.30N 14.71E 2 3.1L **¶601242631**
VIE V 05 09 38 48.9–1.3 44.44N 14.73E 8 2.3L,2.1b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=5.9km az=64.0.
VIE Error ellipse: s-maj=9.5km s-min=7.3km az=102.0.
ISC VI 08 09 37 11.9–1.1 43.00N–.04 14.10E–.04 31–7 52 0-2
ROM VI 08 09 37 09.9–.40 43.04N 14.23E 22–5 2.6L **¶17216404**
CSEM VI 08 09 37 09.9 43.04N 14.23E 22 2.6L
ISCJB VI 08 09 37 12.6–.67 42.90N–.05 14.03E–.06 37–8 2.6L
ISC Event type ke.
ROM Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
CSEM VI 22 06 24 27.7–1.0 43.88N 15.61E 2 1.3L
BEO VI 22 06 24 40.8–1.2 43.96N 16.84E 0 1.3 **¶601259084**
CSEM Event type ke. Error ellipse: s-maj=26.8km s-min=12.7km az=45.0.
BEO Event type ke.
ISC VI 27 18 35 56.8–1.2 40.09N–.04 18.54E–.03 55–17 90 1-5
ROM VI 27 18 35 53.0–.55 40.11N 18.81E 20 3.1L **¶16683866**
CSEM VI 27 18 35 55.8–.10 40.10N 18.59E 20 3.1L
ISCJB VI 27 18 35 56.2–.93 40.07N–.04 18.59E–.03 33–10 3.1L
THE VI 27 18 35 56.4 39.93N 18.62E 12–2 3.2L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=9.0km s-min=3.8km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.1km az=17.0.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=2.8km az=21.6.
THE Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=330.0.

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ISC I 01 02 48 02.8–.98 43.18N–.01 18.73E–.01 5–8 149 0-7
ISCJB I 01 02 48 02.1–.34 43.20N–.01 18.74E–.02 4–3 **¶15902471**
CSEM I 01 02 48 02.6–.12 43.18N 18.74E 2 3.1L
PDG I 01 02 48 03.1–.18 43.17N 18.74E 1–1 2.8,2.8L
BEO I 01 02 48 03.4–.28 43.15N 18.73E 14–3 2.8,2.8L
PRU I 01 02 48 05.0 43.30N 18.82E 0 2.8,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=39.3.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.4km az=119.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.7km az=0.0.
BEO Event type ke.
ISC I 01 04 46 25.8–.90 43.17N–.01 18.76E–.02 6–7 141 0-5
CSEM I 01 04 46 25.3–.12 43.17N 18.76E 2 2.5L **¶16017919**
PDG I 01 04 46 25.3–.20 43.18N 18.73E 8–1 2.6,2.6L
BEO I 01 04 46 26.2–.27 43.16N 18.79E 10–3 2.6,2.6L
VIE I 01 04 46 35.7–.63 43.91N 18.56E 10 2.2b,1.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.1km az=103.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.8km az=0.0.
BEO Event type ke.
VIE Error ellipse: s-maj=9.0km s-min=4.7km az=31.0.
ISC I 01 22 43 55.9–.98 41.08N–.03 22.09E–.02 12–8 44 0-2
SKO I 01 22 43 54.8 41.03N 22.07E 21 1.5L,1.2 **¶600871232**
ISCJB I 01 22 43 55.5–.56 41.07N–.04 22.09E–.03 0–8 1.5L,1.2
CSEM I 01 22 43 55.9–.16 41.08N 22.10E 10 3.0,1.2
ATH I 01 22 43 56.1 41.09N 22.11E 7 3.0,1.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.3km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=10.0.
ATH Error ellipse: s-maj=1.0km s-min=0.6km az=-1.0.
ISC I 03 07 57 49.2–.95 43.20N–.02 18.71E–.02 6–8 157 0-7
CSEM I 03 07 57 48.8–.13 43.19N 18.74E 2 3.0L **¶15908052**
PDG I 03 07 57 49.8–.34 43.17N 18.75E 3–1 3.0,3.0L
BEO I 03 07 57 49.2–.27 43.19N 18.75E 0 2.9,3.0L
PRU I 03 07 57 51.5 43.33N 18.88E 0 2.9,3.0L
ATH I 03 07 58 34.3 40.68N 21.57E 10–3 2.9,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=96.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.2km az=0.0.
BEO Event type ke.
ATH Error ellipse: s-maj=2.2km s-min=1.5km az=-1.0.
ISC I 03 07 59 26.7–1.0 43.17N–.01 18.70E–.02 4–8 3.4b 200 0-58
CSEM I 03 07 59 26.6–.12 43.18N 18.70E 5 3.5L **¶15908053**
IDC I 03 07 59 26.9–1.4 43.15N 18.50E 0 3.5L,3.4
LDG I 03 07 59 26.9–.10 43.15N 18.78E 2 3.9L,3.4
PDG I 03 07 59 27.3–.19 43.15N 18.77E 3–1 3.4,3.4L
BEO I 03 07 59 27.4–.25 43.18N 18.77E 0 3.3,3.4L
ROM I 03 07 59 28.6–.35 43.21N 18.66E 10 3.5L,3.4L
PRU I 03 07 59 28.9 43.12N 18.79E 15 3.5L,3.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.6km az=90.0.
IDC Error ellipse: s-maj=27.3km s-min=16.4km az=52.0.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=159.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
BEO Event type ke.
ROM Event type ke. Error ellipse: s-maj=6.5km s-min=4.4km az=80.0.
BEO I 03 12 25 32.2–.36 43.14N 18.82E 0 1.8
CSEM I 03 12 25 30.6–.20 43.16N 18.75E 10 1.8L **¶601254276**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.0km az=134.0.
ISC I 04 02 00 16.9–1.1 41.27N–.09 22.68E–.04 12–11 32 0-2
ISCJB I 04 02 00 16.4–1.2 41.2N–.10 22.76E–.08 5–20 **¶600871282**
CSEM I 04 02 00 16.8–.42 41.31N 22.70E 17–2 2.6
SKO I 04 02 00 16.3 41.31N 22.67E 15 1.2L,0.7
ATH I 04 02 00 17.1 41.29N 22.68E 22–1 2.6,0.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.0km s-min=7.4km az=162.3.
CSEM Event type ke. Error ellipse: s-maj=10.9km s-min=7.6km az=6.0.
ATH Error ellipse: s-maj=1.2km s-min=0.7km az=-1.0.
ISC I 04 07 44 29.8–.85 43.18N–.02 18.76E–.02 9–6 135 0-6
CSEM I 04 07 44 29.7–.17 43.18N 18.76E 2 2.7L **¶16017938**
PDG I 04 07 44 30.1–.13 43.17N 18.76E 3–0 2.9,2.8L
BEO I 04 07 44 30.9–.28 43.16N 18.77E 0 2.9,2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=117.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
BEO Event type ke.
ISC I 04 08 15 37.8–1.0 44.27N–.02 17.96E–.02 11–9 207 0-6
PDG I 04 08 15 36.9–.58 44.22N 17.92E 5–1 3.2,3.1L **¶15908085**
PRU I 04 08 15 36.6 44.07N 17.86E 14 3.2,3.1L
CSEM I 04 08 15 37.0–.11 44.27N 17.97E 2 3.1L,3.1L
VIE I 04 08 15 37.6–.67 44.32N 18.06E 10 3.0L,2.9b
BEO I 04 08 15 37.1–.35 44.24N 17.90E 3–2 3.0L,2.9b
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=1.1km s-min=2.5km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=47.0.
VIE Error ellipse: s-maj=6.8km s-min=5.1km az=128.0.
BEO Event type ke.
BEO I 04 16 24 28.2–.76 43.01N 18.70E 14–1 1.6
CSEM I 04 16 24 27.7–.25 43.02N 18.75E 1 1.6L **¶601254294**
BEO Event type ke.
CSEM Event type sr. Error ellipse: s-maj=6.0km s-min=4.1km az=126.0. Suspected Mining induced.
ISC I 04 18 00 22.4–1.3 44.90N–.03 15.10E–.05 3–25 10 0-1
¶602601986
ISC Event type ke.
ISC I 05 19 14 02.4–.90 43.13N–.02 18.81E–.02 7–6 114 0-4
ISCJB I 05 19 14 01.7–.32 43.14N–.02 18.81E–.03 8–3 **¶16017942**
CSEM I 05 19 14 01.9–.14 43.14N 18.80E 2 2.4L
PDG I 05 19 14 02.6–.20 43.13N 18.79E 4–1 2.5,2.4L
BEO I 05 19 14 03.2–.27 43.09N 18.86E 12–2 2.5,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=31.5.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=120.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
BEO Event type ke.
ISC I 06 17 16 20.2–.81 41.31N–.02 22.67E–.02 9–5 86 0-3
SKO I 06 17 16 18.6 41.31N 22.67E 15 1.9L,1.3 **¶16868805**
ISCJB I 06 17 16 18.6–.49 41.39N–.02 22.68E–.04 7–4 1.9L,1.3
CSEM I 06 17 16 19.3–.20 41.35N 22.66E 2 2.2L,1.3
ATH I 06 17 16 19.7 41.30N 22.67E 19–0 2.9,1.3
THE I 06 17 16 20.3 41.31N 22.68E 0–1 2.1L,1.3
BEO I 06 17 16 21.4–.49 41.39N 22.57E 0 2.2,1.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.7km az=170.4.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=72.0.
ATH Error ellipse: s-maj=0.7km s-min=0.4km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=349.0.
BEO Event type ke.
BEO I 06 20 59 57.5–.33 43.15N 18.81E 11–6 2.0
CSEM I 06 20 59 56.9–.17 43.17N 18.81E 2 2.2L **¶601254333**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=124.0.
ISC I 07 02 26 26.3–.98 43.18N–.02 18.71E–.02 5–8 154 0-7
PRU I 07 02 26 23.8 43.14N 19.13E 0 **¶15916099**
TIR I 07 02 26 25.6 43.02N 18.40E 14 3.5L
CSEM I 07 02 26 26.5–.14 43.17N 18.75E 2 3.1L
PDG I 07 02 26 26.9–.17 43.16N 18.76E 5–2 3.0,3.0L
BEO I 07 02 26 27.0–.28 43.17N 18.71E 0 3.0,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.9km az=115.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
BEO Event type ke.
ISC I 07 13 25 31.4–.88 45.89N–.02 15.96E–.02 14–6 98 0-3
ISCJB I 07 13 25 29.9–.40 45.90N–.02 16.02E–.03 6–3 **¶600022901**
CSEM I 07 13 25 30.9–.14 45.89N 15.98E 5 2.7L
LJU I 07 13 25 30.5 45.91N 16.00E 11 2.1L
VIE I 07 13 25 32.2–.26 45.95N 15.87E 10–1 2.2L,2.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=147.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=46.0.
VIE Error ellipse: s-maj=1.7km s-min=1.0km az=127.0.
BEO I 07 13 41 55.4–.20 43.74N 20.64E 0 1.9
CSEM I 07 13 41 54.4–.14 43.73N 20.65E 2 1.9L **¶601254348**
BEO Event type ke.

CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=13.0.
LJU I 07 23 31 36.0 46.00N 15.29E 5 0.0L
CSEM I 07 23 31 34.9–.40 46.10N 15.34E 2 0.0L ¶600022905
CSEM Event type ke. Error ellipse: s-maj=12.2km s-min=8.1km az=146.0.
LJU I 08 11 18 45.8 45.67N 15.18E 18 0.7L
CSEM I 08 11 18 45.8 45.67N 15.18E 0 0.7L ¶600022911
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 09 17 42 43.7–1.0 43.64N–.01 18.65E–.02 8–9 143 0-7
CSEM I 09 17 42 43.4–.12 43.64N 18.63E 2 3.0L ¶15916162
PDG I 09 17 42 43.9–.34 43.60N 18.64E 12–0 3.0L,2.9
BEO I 09 17 42 44.3–.29 43.65N 18.62E 3–2 2.9,2.9
PRU I 09 17 42 47.1 43.83N 18.70E 0 2.9,2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=96.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.8km az=0.0.
BEO Event type ke.
BEO I 10 21 14 06.4–1.0 42.43N 21.54E 0 1.8
CSEM I 10 21 14 04.9–.31 42.43N 21.53E 5 1.8L ¶601108730
SKO I 10 21 14 05.6 42.42N 21.61E 3 0.1
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.7km az=94.0.
ISC I 12 17 10 18.3–1.5 44.85N–.04 15.05E–.07 7–13 17 0-1
¶602602039
ISC Event type ke.
ISC I 12 18 13 20.7–1.3 44.89N–.04 15.06E–.07 7–11 22 0-1
¶602602040
ISC Event type ke.
ISC I 13 01 49 39.3–1.1 41.29N–.06 22.74E–.03 19–3 24 0-2
ISCJB I 13 01 49 38.5–1.0 41.25N–.10 22.84E–.07 11–13 ¶600871569
CSEM I 13 01 49 38.7–.38 41.28N 22.78E 18–1 2.8
SKO I 13 01 49 39.7 41.24N 22.74E 15 0.4L,0.2
ATH I 13 01 49 39.0 41.27N 22.75E 26–2 2.8,0.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=7.1km az=158.9.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=5.3km az=172.0.
ATH Error ellipse: s-maj=2.4km s-min=1.0km az=-1.0.
ISC I 13 07 55 50.2–.82 42.60N–.02 19.94E–.02 2–5 114 0-3
CSEM I 13 07 55 49.8–.14 42.58N 19.93E 2 2.5L ¶16014116
PDG I 13 07 55 49.9–.29 42.61N 19.94E 4–1 2.5,2.5L
IASPE I 13 07 55 50.1–.98 42.59N–.02 19.94E–.02 3–5 2.5,2.5L
BEO I 13 07 55 50.9–.32 42.58N 19.95E 0 2.2,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=164.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
IASPE Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=154.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
BEO Event type ke.
ISC I 13 11 41 14.5–1.2 43.35N–.02 17.47E–.02 2–10 116 1-5
VIE I 13 11 41 14.0–.39 43.28N 17.78E 10 2.8b,2.5L ¶16014119
PDG I 13 11 41 14.8–.19 43.36N 17.50E 5–0 2.9L,2.5L
CSEM I 13 11 41 15.1–.21 43.37N 17.53E 2 2.8L,2.5L
BEO I 13 11 41 15.6–.49 43.39N 17.47E 0 2.7,2.5L
ISC Event type ke.
VIE Error ellipse: s-maj=4.6km s-min=3.5km az=53.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.9km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=2.9km az=46.0.
BEO Event type ke.
ISC I 13 12 22 14.2–.95 43.77N–.01 20.76E–.01 8–8 158 0-4
CSEM I 13 12 22 13.8–.10 43.77N 20.75E 2 2.9L ¶16014120
BEO I 13 12 22 14.6–.18 43.76N 20.75E 5–2 2.9
PDG I 13 12 22 14.2–.29 43.75N 20.74E 8–0 3.1,3.0L
SOF I 13 12 22 17.2 43.37N 21.01E 2 3.1,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=131.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
PDG I 15 10 18 23.4–.28 42.55N 19.96E 3–2 2.3,2.3L
CSEM I 15 10 18 23.6–.18 42.56N 19.96E 2 2.3L,2.3L ¶16014123
BEO I 15 10 18 24.3–.34 42.53N 19.99E 0 1.9,2.3L
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=149.0.
BEO Event type ke.
ISC I 15 10 31 15.5–.95 42.56N–.02 19.94E–.02 2–7 108 0-2
CSEM I 15 10 31 15.4–.13 42.56N 19.94E 2 2.4L ¶16014124
PDG I 15 10 31 15.3–.21 42.56N 19.95E 4–1 2.5,2.4L
BEO I 15 10 31 16.3–.34 42.53N 19.96E 0 2.2,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=162.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
BEO Event type ke.
ISC I 17 05 03 48.7–.92 45.46N–.03 14.45E–.02 8–6 135 0-2
ISCJB I 17 05 03 47.3–.56 45.40N–.03 14.45E–.03 5–5 ¶600022965
ROM I 17 05 03 47.5–1.1 45.27N 14.34E 10 2.6,2.1L
CSEM I 17 05 03 48.0–.26 45.41N 14.43E 5 2.7L,2.1L
LJU I 17 05 03 48.2 45.45N 14.45E 12 1.7L,2.1L
VIE I 17 05 03 48.2–.51 45.43N 14.45E 7–2 2.1L,1.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=2.9km az=14.8.
ROM Event type ke. Error ellipse: s-maj=25.6km s-min=10.9km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=10.0.
VIE Error ellipse: s-maj=3.2km s-min=1.9km az=171.0.
ISC I 17 13 20 32.9–1.0 41.81N–.02 22.24E–.02 11–10 62 1-2
SKO I 17 13 20 31.6 41.84N 22.23E 15 2.4L,2.0 ¶16869002
ATH I 17 13 20 32.8 41.80N 22.25E 5–4 2.9,2.0
CSEM I 17 13 20 32.6–.13 41.82N 22.22E 10 2.2L,2.0
THE I 17 13 20 33.9 41.76N 22.24E 11–2 2.2L,2.0
SOF I 17 13 20 33.0 41.81N 22.27E 8 2.2L,2.0
BEO I 17 13 20 33.9–.42 41.80N 22.21E 0 2.1,2.0
ISC Event type ke.
ATH Error ellipse: s-maj=2.2km s-min=1.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=70.0.
THE Event type ke. Error ellipse: s-maj=4.4km s-min=1.3km az=228.0.
BEO Event type ke.
BEO I 17 14 00 52.8–.31 44.15N 20.31E 0 1.6
CSEM I 17 14 00 52.3–.22 44.12N 20.31E 2 1.6L ¶601254436
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=169.0.
SKO I 17 14 02 19.5 41.63N 22.33E 20 1.7L,1.2
¶601108766
ISC I 18 22 38 46.7–.81 42.59N–.02 19.95E–.02 3–5 150 0-5
IASPE I 18 22 38 46.6–1.0 42.58N–.02 19.94E–.02 3–6 ¶601902671
CSEM I 18 22 38 46.5–.13 42.58N 19.94E 2 2.8L
PDG I 18 22 38 46.8–.25 42.58N 19.93E 2–1 2.8,2.8L
BEO I 18 22 38 47.4–.33 42.58N 19.95E 0 2.4,2.8L
ATH I 18 22 39 11.2 41.37N 21.34E 36–6 3.4,2.8L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=136.9. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=165.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.8km az=0.0.
BEO Event type ke.
ATH Error ellipse: s-maj=16.1km s-min=10.8km az=-1.0.
ISC I 19 04 13 54.8–.94 43.19N–.02 18.72E–.02 6–7 115 0-5
CSEM I 19 04 13 54.4–.18 43.18N 18.73E 2 2.3L ¶601902778
PDG I 19 04 13 54.6–.22 43.19N 18.72E 7–0 2.3,2.3L
BEO I 19 04 13 55.5–.41 43.17N 18.77E 0 2.1,2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=108.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
BEO Event type ke.
ISC I 19 09 37 11.1–.90 43.17N–.02 18.72E–.02 8–7 129 0-5
ISCJB I 19 09 37 10.2–.42 43.20N–.02 18.71E–.03 0–4 ¶16014139
CSEM I 19 09 37 10.8–.17 43.17N 18.73E 2 3.0L
PDG I 19 09 37 10.9–.21 43.17N 18.72E 11–0 3.1,3.0L
BEO I 19 09 37 11.4–.33 43.15N 18.70E 6–2 2.9,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=39.4.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.1km az=89.0.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.5km az=0.0.
BEO Event type ke.
LJU I 19 19 21 52.3 45.86N 15.25E 6 0.4L
CSEM I 19 19 21 52.3 45.86N 15.25E 0 -0.4L ¶600022997
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 19 20 57 16.6–2.6 46.36N–.06 16.9E–.10 13–10 50 0-2
VIE I 19 20 57 15.7–.24 46.41N 16.87E 7–5 2.0L ¶600022999
CSEM I 19 20 57 16.2–.53 46.36N 16.86E 10 2.5L
LJU I 19 20 57 17.2 46.34N 16.78E 26 1.7L
ISC Event type ke.
VIE Error ellipse: s-maj=4.2km s-min=1.3km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.2km az=51.0.
PDG I 20 10 21 30.4–.21 43.16N 18.73E 12–1 1.8L
CSEM I 20 10 21 29.3–.20 43.20N 18.69E 15 1.8L ¶16014145
BEO I 20 10 21 30.7–.93 43.16N 18.70E 18–5 1.6
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.8km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.3km az=123.0.
BEO Event type ke.
CSEM I 20 11 44 37.0–.30 43.18N 18.69E 10 1.9L
PDG I 20 11 44 37.6–.18 43.16N 18.73E 12–1 2.0,1.9L ¶16014149
BEO I 20 11 44 38.9–.46 43.09N 18.76E 12–5 1.8,1.9L
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=2.9km az=119.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
BEO Event type ke.
ISC I 20 14 25 38.6–.00 43.17N–.02 18.71E–.02 5–9 82 0-3
CSEM I 20 14 25 38.6–.18 43.15N 18.74E 2 2.5L ¶16014153
PDG I 20 14 25 38.5–.21 43.17N 18.73E 12–1 2.5,2.5L
BEO I 20 14 25 39.0–.36 43.19N 18.72E 0 2.2,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=122.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
BEO Event type ke.
ISC I 20 15 09 15.8–.84 43.18N–.02 18.75E–.02 11–5 124 0-7
CSEM I 20 15 09 15.6–.16 43.17N 18.75E 5 3.0L ¶15960443
PDG I 20 15 09 15.6–.14 43.17N 18.72E 12–0 3.1,3.0L
BEO I 20 15 09 16.1–.32 43.14N 18.72E 11–3 2.9,3.0L
PRU I 20 15 09 18.2 43.31N 18.86E 6 2.9,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=100.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.4km az=0.0.
BEO Event type ke.
ISC I 20 15 20 05.7–.85 43.17N–.02 18.74E–.02 10–6 142 0-7
CSEM I 20 15 20 05.4–.15 43.19N 18.76E 5 3.2L ¶15960444
BEO I 20 15 20 05.7–.32 43.18N 18.72E 6–3 3.2
PDG I 20 15 20 05.5–.37 43.17N 18.72E 11–0 3.2,3.2L
PRU I 20 15 20 08.2 43.25N 18.80E 11 3.2,3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=83.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.9km az=0.0.
ISC I 20 19 05 49.5–.97 41.71N–.02 22.30E–.02 12–9 80 0-3
CSEM I 20 19 05 49.0–.11 41.73N 22.31E 8 2.2L ¶16871491
SKO I 20 19 05 49.0 41.68N 22.27E 21 2.1L,1.1
BEO I 20 19 05 49.7–.37 41.71N 22.26E 8–4 2.1,1.1
ATH I 20 19 05 50.8 41.66N 22.36E 13–3 2.8,1.1
THE I 20 19 05 50.0 41.69N 22.33E 12–1 2.2L,1.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=64.0.
BEO Event type ke.
ATH Error ellipse: s-maj=1.5km s-min=1.6km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=162.0.
PDG I 20 23 26 17.7–.15 43.14N 18.73E 12–1 1.6L
CSEM I 20 23 26 17.4–.24 43.15N 18.70E 2 1.6L ¶16014166
BEO I 20 23 26 19.1–.46 43.08N 18.78E 10–8 1.4
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.8km az=129.0.
BEO Event type ke.
ISC I 21 02 10 27.1–.96 45.52N–.02 14.82E–.02 19–2 92 0-2
CSEM I 21 02 10 26.7–.15 45.53N 14.82E 17–1 2.8L ¶600023017
LJU I 21 02 10 26.4 45.54N 14.82E 20 2.0L
ISCJB I 21 02 10 27.5–.38 45.53N–.02 14.82E–.03 17–5 2.0L
VIE I 21 02 10 27.8–.31 45.61N 14.82E 12–1 2.1L,1.8b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=42.3.
VIE Error ellipse: s-maj=2.5km s-min=1.1km az=163.0.
BEO I 21 06 44 17.1–.28 43.73N 20.66E 0 1.4
CSEM I 21 06 44 17.1 43.73N 20.66E 0 1.4L ¶601254456
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 21 09 51 24.4–1.0 43.05N–.01 21.94E–.02 4–9 140 0-6
CSEM I 21 09 51 24.1–.09 43.05N 21.93E 2 2.9L ¶601069925
THE I 21 09 51 24.8 43.02N 21.95E 0–1 2.5L
SOF I 21 09 51 25.0 42.98N 21.93E 8 2.5L
BEO I 21 09 51 25.1–.32 43.05N 21.94E 0 2.9
SKO I 21 09 51 26.2 42.99N 21.93E 2 2.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=84.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=0.5km az=341.0.
BEO Event type ke.
ISC I 21 13 25 26.2–.97 43.14N–.02 18.73E–.02 6–8 89 0-3
ISCJB I 21 13 25 25.0–.40 43.18N–.02 18.70E–.03 1–6 ¶16014175
CSEM I 21 13 25 25.5–.21 43.16N 18.71E 2 2.5L
BEO I 21 13 25 26.9–.29 43.13N 18.73E 10–3 2.3
PDG I 21 13 25 26.2–.12 43.14N 18.74E 6–1 2.5L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=21.6.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=105.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
ISC I 21 14 20 53.9–.97 43.19N–.01 18.56E–.02 8–7 293 0-12
ISCJB I 21 14 20 53.7–.28 43.21N–.01 18.61E–.02 6–2 ¶15960465
CSEM I 21 14 20 54.6–.10 43.20N 18.63E 2 3.5
LDG I 21 14 20 55.9–.08 43.18N 18.72E 10 3.9L
BEO I 21 14 20 55.2–.28 43.19N 18.59E 8–2 3.3
PDG I 21 14 20 55.4–.17 43.17N 18.71E 12–0 3.5,3.5L
THE I 21 14 20 57.4 43.06N 18.79E 2–1 3.7L,3.5L
PRU I 21 14 20 57.3 43.31N 18.87E 0 3.7L,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=165.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=54.0.
LDG Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=33.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.4km az=0.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=128.0.
ISC I 22 00 48 45.1–.49 43.21N–.01 18.619E–.01 5–3 3.7b 581 0-90
CSEM I 22 00 48 45.4–.08 43.21N 18.67E 2 4.0L ¶15960476
ROM I 22 00 48 45.9–.40 43.14N 18.78E 10 4.1L
PDG I 22 00 48 45.5–.42 43.17N 18.70E 9–1 4.0L,3.9
NEIC I 22 00 48 45.0 43.17N 18.70E 9 4.0L,3.9

LDG I 22 00 48 46.0–.06 43.22N 18.79E 10 4.4L,3.9
BEO I 22 00 48 46.0–.42 43.20N 18.71E 4–2 3.7,3.9
IDC I 22 00 48 46.3–.70 43.26N 18.52E 0 3.8,3.7
PRU I 22 00 48 47.4 43.24N 18.71E 0 3.8,3.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=41.0.
ROM Event type ke. Error ellipse: s-maj=7.1km s-min=3.6km az=74.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.1km az=0.0.
NEIC Event type se. After PDG.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=25.0.
BEO Event type ke.
IDC Error ellipse: s-maj=12.5km s-min=9.6km az=57.0.
ISC I 22 01 02 03.6–.68 43.19N–.01 18.70E–.02 8–4 229 0-10
LDG I 22 01 02 03.1–.08 43.15N 18.75E 10 3.3L **¶15960477**
CSEM I 22 01 02 04.8–.15 43.18N 18.78E 10 3.5L
PDG I 22 01 02 04.1–.20 43.14N 18.75E 7–1 3.5,3.5L
BEO I 22 01 02 05.1–.31 43.19N 18.80E 0 3.0,3.5L
PRU I 22 01 02 06.6 43.21N 18.77E 14 3.0,3.5L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=79.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
BEO Event type ke.
BEO I 22 01 49 32.6–.42 43.17N 18.81E 0 2.0
CSEM I 22 01 49 30.5–.34 43.14N 18.73E 2 2.0L **¶601254474**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.3km az=140.0.
ISC I 22 02 20 23.0–.96 43.16N–.01 18.68E–.02 7–8 136 0-5
CSEM I 22 02 20 23.1–.15 43.16N 18.71E 5 2.6L **¶16014198**
BEO I 22 02 20 23.2–.45 43.15N 18.64E 0 2.5
PDG I 22 02 20 23.4–.27 43.16N 18.75E 14–0 2.6,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.6km az=96.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.8km az=0.0.
ISC I 22 06 39 11.7–.83 42.83N–.02 18.53E–.02 15–5 112 0-4
ISCJB I 22 06 39 10.8–.36 42.86N–.02 18.53E–.03 9–3 **¶16014199**
BEO I 22 06 39 10.7–.57 42.79N 18.49E 8–2 2.3
CSEM I 22 06 39 11.0–.17 42.85N 18.53E 5 2.6L
PDG I 22 06 39 11.2–.19 42.83N 18.53E 15–0 2.6,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=3.1km az=13.8.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=57.0.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.6km az=0.0.
BEO I 22 07 29 33.5–.69 43.23N 18.64E 11–8 1.9
CSEM I 22 07 29 31.5–.32 43.26N 18.57E 2 1.9L **¶601254481**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.6km az=136.0.
ISC I 22 14 37 55.9–.86 43.16N–.02 18.72E–.02 10–6 118 0-3
ISCJB I 22 14 37 55.0–.40 43.19N–.02 18.72E–.03 1–3 **¶16014202**
CSEM I 22 14 37 55.4–.18 43.16N 18.72E 5 2.8L
PDG I 22 14 37 55.7–.27 43.16N 18.76E 14–1 2.8,2.8L
BEO I 22 14 37 56.5–.48 43.13N 18.74E 5–2 2.4,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=25.1.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=110.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.8km az=0.0.
BEO Event type ke.
ISC I 22 19 02 30.9–.92 43.21N–.01 19.03E–.02 5–7 155 0-6
ISCJB I 22 19 02 30.0–.29 43.25N–.02 19.02E–.02 3–3 **¶16014203**
CSEM I 22 19 02 30.6–.10 43.21N 19.04E 2 2.8L
PDG I 22 19 02 30.9–.14 43.22N 19.02E 5–0 2.8,2.8L
BEO I 22 19 02 31.1–.38 43.16N 19.02E 0 2.6,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=43.6.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=113.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.3km az=0.0.
BEO Event type ke.
ISC I 23 02 23 29.3–.96 43.16N–.01 18.70E–.02 6–8 119 0-5
CSEM I 23 02 23 28.9–.20 43.17N 18.72E 2 2.5L **¶16014231**
BEO I 23 02 23 29.6–.45 43.13N 18.72E 0 2.3
PDG I 23 02 23 29.2–.37 43.15N 18.74E 12–1 2.5,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.9km az=104.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=1.0km az=0.0.
ISC I 23 04 40 47.6–.95 41.31N–.03 22.66E–.03 12–6 36 0-2
ISCJB I 23 04 40 47.2–.62 41.28N–.05 22.68E–.05 18–5 **¶600871891**
CSEM I 23 04 40 47.4–.30 41.28N 22.68E 16–1 3.0
SKO I 23 04 40 47.1 41.32N 22.66E 15 1.2L,0.7
ATH I 23 04 40 49.7 41.12N 22.68E 24–6 3.0,0.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.5km az=167.6.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=6.2km az=9.0.
ATH Error ellipse: s-maj=3.7km s-min=3.9km az=-1.0.
ISC I 23 20 28 57.5–1.1 43.16N–.02 18.73E–.02 6–9 93 0-5
ISCJB I 23 20 28 56.6–.41 43.19N–.02 18.75E–.03 3–3 **¶601254520**
CSEM I 23 20 28 57.2–.17 43.17N 18.74E 2 2.5L
BEO I 23 20 28 58.2–.55 43.16N 18.73E 4–2 2.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=37.2.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=128.0.
BEO Event type ke.
ISC I 23 22 34 09.6–1.1 42.19N–.02 20.72E–.02 2–10 105 1-5
SKO I 23 22 34 09.8 42.21N 20.68E 4 2.4L,1.6 **¶600871905**
CSEM I 23 22 34 10.1–.23 42.19N 20.71E 2 2.2L,1.6
BEO I 23 22 34 11.7–.25 42.26N 20.74E 0 2.1,1.6
ATH I 23 22 34 16.2 41.89N 21.10E 11–1 3.3,1.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.9km az=67.0.
BEO Event type ke.
ATH Error ellipse: s-maj=1.2km s-min=1.0km az=-1.0.
ISC I 24 01 26 37.8–.93 43.20N–.02 18.68E–.02 2–6 4.2b,4.1s 909 0-91
BJI I 24 01 26 35.7 43.48N 18.59E 4 4.2b,4.1s **¶15963053**
ISCJB I 24 01 26 36.5–.25 43.217N–.01 18.65E–.01 3–2 4.1b,4.0s
SKO I 24 01 26 37.5 43.33N 18.72E 1 4.1b,4.0s
BEO I 24 01 26 37.8–.32 43.18N 18.68E 0 4.2,4.0s
ROM I 24 01 26 37.8–.27 43.14N 18.86E 10 4.4L,4.0s
LDG I 24 01 26 37.9–.07 43.20N 18.80E 10 4.6L,4.0s
IDC I 24 01 26 37.7–.58 43.20N 18.66E 0 4.0,3.9L
MOS I 24 01 26 38.0–1.3 43.15N 18.45E 22 4.3b,3.9L
PDG I 24 01 26 38.2–.25 43.15N 18.72E 7–0 4.2,4.2L
NEIC I 24 01 26 38.3 43.15N 18.73E 6 4.4L,4.2L
CSEM I 24 01 26 38.4–.07 43.20N 18.66E 5 4.2b,4.2L
THE I 24 01 26 39.6 43.12N 18.65E 2–2 4.4L,4.2L
PRU I 24 01 26 40.7 43.21N 18.77E 10 3.9,4.2L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=145.8.
BEO Event type ke.
ROM Event type ke. Error ellipse: s-maj=5.0km s-min=1.8km az=75.0.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=1.6km az=32.0.
IDC Error ellipse: s-maj=10.0km s-min=8.5km az=38.0.
MOS Error ellipse: s-maj=4.8km s-min=2.8km az=114.2.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
NEIC Event type fe. Felt at Podgorica. Also felt at Mostar, Bosnia and Herzegovina. After PDG.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=43.0.
THE Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=257.0.
ISC I 24 03 20 41.3–.98 43.17N–.02 18.70E–.02 6–8 97 0-4
CSEM I 24 03 20 40.7–.16 43.17N 18.71E 2 2.5L **¶601254525**
BEO I 24 03 20 41.8–.41 43.11N 18.73E 0 2.3
PDG I 24 03 20 41.1–.18 43.16N 18.73E 11–0 2.6,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=109.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.6km az=0.0.
BEO I 24 05 12 06.2–.40 43.15N 18.75E 0 1.5
CSEM I 24 05 12 04.6–.36 43.17N 18.70E 2 1.5L **¶601254535**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=5.2km az=139.0.
BEO I 24 21 33 58.7–.38 43.10N 18.78E 12–4 1.7
CSEM I 24 21 33 57.7–.27 43.09N 18.79E 2 1.7L **¶601254563**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=152.0.
ISC I 25 03 44 40.3–.86 43.19N–.01 18.71E–.02 9–6 161 0-7
ISCJB I 25 03 44 39.2–.35 43.21N–.02 18.68E–.02 5–3 **¶15972754**
CSEM I 25 03 44 39.7–.13 43.19N 18.70E 2 3.0L
PDG I 25 03 44 40.0–.20 43.17N 18.73E 13–0 3.1,3.0L
BEO I 25 03 44 40.7–.25 43.14N 18.70E 13–3 2.7,3.0L
PRU I 25 03 44 42.1 43.32N 18.86E 1 2.7,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=32.8.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=79.0.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.5km az=0.0.
BEO Event type ke.
ISC I 25 03 56 55.3–.89 43.20N–.01 18.67E–.02 9–7 195 0-11
ISCJB I 25 03 56 54.9–.32 43.21N–.01 18.68E–.02 6–2 **¶15968978**
LDG I 25 03 56 55.7–.12 43.21N 18.69E 2 3.7L
CSEM I 25 03 56 55.1–.13 43.18N 18.64E 5 3.2L
BEO I 25 03 56 56.5–.25 43.18N 18.74E 5–2 3.0
PDG I 25 03 56 56.0–.22 43.17N 18.72E 10–0 3.2,3.2L
PRU I 25 03 56 58.9 43.26N 18.82E 12 3.2,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=26.5.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.6km az=45.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
ISC I 25 09 12 11.3–.94 43.16N–.02 18.72E–.02 7–7 93 0-3
CSEM I 25 09 12 10.8–.18 43.16N 18.73E 2 2.6L **¶16014277**
BEO I 25 09 12 11.7–.29 43.10N 18.76E 3–2 2.5
PDG I 25 09 12 11.3–.16 43.15N 18.75E 12–0 2.7,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=110.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.4km az=0.0.
ISC I 25 18 54 56.7–.95 43.16N–.02 18.71E–.02 6–8 103 0-4
CSEM I 25 18 54 56.4–.17 43.15N 18.73E 2 2.6L **¶16014280**
PDG I 25 18 54 56.6–.30 43.16N 18.73E 11–1 2.7,2.6L
BEO I 25 18 54 57.6–.28 43.10N 18.77E 0 2.4,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=106.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=1.0km az=0.0.
BEO Event type ke.
ISC I 26 01 27 09.1–.83 43.18N–.01 18.70E–.02 11–6 190 0-10
ISCJB I 26 01 27 08.1–.38 43.22N–.02 18.68E–.03 3–4 **¶15972773**
PDG I 26 01 27 09.4–.20 43.17N 18.72E 11–0 3.3,3.2L
CSEM I 26 01 27 09.2–.13 43.19N 18.74E 2 3.4L,3.2L
BEO I 26 01 27 09.5–.30 43.17N 18.70E 11–3 3.2,3.2L
LDG I 26 01 27 09.4–.10 43.18N 18.76E 10 3.7L,3.2L
PRU I 26 01 27 11.6 43.37N 18.93E 3 3.7L,3.2L
TIR I 26 01 27 19.7 42.41N 18.35E 47 3.2L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=32.5.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.5km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=65.0.
BEO Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=18.0.
BEO I 26 03 13 40.2–.23 43.79N 20.72E 4–3 2.3
CSEM I 26 03 13 39.4–.18 43.78N 20.73E 2 2.3L **¶601254607**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.1km az=17.0.
ISC I 27 08 14 06.2–.90 43.17N–.02 18.73E–.02 8–6 95 0-3
CSEM I 27 08 14 05.7–.20 43.17N 18.74E 2 2.2L **¶16014294**
PDG I 27 08 14 05.9–.33 43.17N 18.74E 12–1 2.3,2.2L
BEO I 27 08 14 06.9–.30 43.15N 18.78E 0 2.1,2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=115.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=1.1km az=0.0.
BEO Event type ke.
ISC I 27 11 24 41.8–1.1 43.41N–.03 17.04E–.03 7–9 116 1-5
CSEM I 27 11 24 41.2–.20 43.38N 17.02E 2 2.7L **¶16014295**
BEO I 27 11 24 42.8–.84 43.46N 17.17E 0 2.7
PDG I 27 11 24 44.0–.12 43.18N 17.12E 12–0 2.9L
VIE I 27 11 24 45.0–.83 43.66N 17.23E 8 2.6b,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=2.2km az=43.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.7km az=0.0.
VIE Error ellipse: s-maj=14.7km s-min=5.9km az=65.0.
ISC I 28 09 02 45.0–.82 43.16N–.02 18.89E–.02 7–5 94 0-3
ISCJB I 28 09 02 44.5–.32 43.16N–.02 18.91E–.03 4–3 **¶16014306**
CSEM I 28 09 02 44.7–.13 43.15N 18.91E 2 2.5L
PDG I 28 09 02 44.7–.20 43.16N 18.88E 12–0 2.5,2.5L
BEO I 28 09 02 46.8–.48 43.13N 19.01E 8–2 2.3,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=113.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
BEO Event type ke.
ISC I 28 23 15 10.2–.88 43.17N–.02 18.73E–.02 8–6 111 0-5
CSEM I 28 23 15 09.9–.15 43.16N 18.74E 2 2.6L **¶16014308**
PDG I 28 23 15 09.8–.15 43.16N 18.71E 11–0 2.6,2.5L
BEO I 28 23 15 11.0–.30 43.15N 18.77E 4–2 2.4,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=92.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.4km az=0.0.
BEO Event type ke.
ISC I 30 15 02 52.3–1.2 45.10N–.03 14.87E–.04 7–11 26 0-1
¶602602041
ISC Event type ke.
ISC I 31 03 12 19.3–.86 43.16N–.01 18.60E–.02 15–6 241 0-33
ISCJB I 31 03 12 17.9–.33 43.22N–.01 18.55E–.02 4–2 3.5b **¶15995124**
TIR I 31 03 12 18.6 43.24N 18.50E 13 3.8L
IDC I 31 03 12 19.1–1.1 43.18N 18.85E 0 3.5,3.5b
CSEM I 31 03 12 19.5–.14 43.22N 18.59E 2 3.6L,3.5b
BEO I 31 03 12 20.1–.75 43.08N 18.69E 6–2 3.3,3.5b
LDG I 31 03 12 20.3–.06 43.18N 18.68E 2 3.6L,3.5b
PDG I 31 03 12 20.5–.17 43.16N 18.72E 10–0 3.4,3.4L
PRU I 31 03 12 23.7 43.30N 18.85E 8 3.4,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=1.0.
IDC Error ellipse: s-maj=16.0km s-min=14.2km az=14.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.0km az=29.0.
BEO Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=25.0.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.4km az=0.0.
ISC I 31 04 13 25.3–.86 43.18N–.01 18.70E–.02 10–6 136 0-7
PDG I 31 04 13 24.8–.31 43.20N 18.71E 12–0 3.0,3.0L **¶15995128**
CSEM I 31 04 13 25.1–.15 43.18N 18.72E 2 3.1L,3.0L
BEO I 31 04 13 26.0–.53 43.17N 18.75E 0 2.8,3.0L
PRU I 31 04 13 28.9 43.27N 18.84E 15 2.8,3.0L

ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.8km az=87.0.
BEO Event type ke.
ISC I 31 17 18 26.9–.89 43.19N–.01 18.74E–.02 7–7 158 0-7
ISCJB I 31 17 18 25.9–.35 43.21N–.02 18.74E–.02 2–3 ¶15995137
CSEM I 31 17 18 26.8–.12 43.18N 18.76E 2 3.1L
PDG I 31 17 18 27.1–.15 43.16N 18.77E 11–0 3.1,3.0L
BEO I 31 17 18 28.0–.54 43.19N 18.80E 9–2 2.9,3.0L
PRU I 31 17 18 30.3 43.32N 18.90E 8 2.9,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=31.8.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=88.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.4km az=0.0.
BEO Event type ke.
ISC II 01 15 39 27.1–1.2 42.05N–.03 19.63E–.02 0–10 92 0-4
PDG II 01 15 39 26.9–.08 42.06N 19.62E 8–1 2.3,2.2L ¶16168011
CSEM II 01 15 39 26.6–.27 42.03N 19.64E 2 2.2L,2.2L
BEO II 01 15 39 27.2–.81 41.99N 19.69E 2–3 2.1,2.2L
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.2km az=176.0.
BEO Event type ke.
ISC II 02 05 13 55.6–1.1 42.83N–.03 18.20E–.02 4–9 67 0-4
ISCJB II 02 05 13 54.9–.55 42.85N–.03 18.21E–.03 1–4 ¶601254716
BEO II 02 05 13 55.7–.34 42.84N 18.18E 5–2 2.2
CSEM II 02 05 13 55.4–.17 42.82N 18.21E 2 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=9.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=21.0.
ISC II 03 15 36 22.8–.85 43.17N–.01 18.73E–.02 10–6 144 0-7
CSEM II 03 15 36 22.4–.14 43.16N 18.74E 2 2.8L ¶16008941
BEO II 03 15 36 22.8–.28 43.10N 18.75E 5–2 2.6
PDG II 03 15 36 22.5–.17 43.16N 18.71E 11–0 2.9,2.8L
PRU II 03 15 36 23.3 43.15N 18.70E 5 2.9,2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=96.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.4km az=0.0.
BEO II 04 15 25 48.6–.32 43.14N 18.77E 0 1.8
¶601254763
BEO Event type ke.
BEO II 04 17 05 07.1–.33 43.13N 18.76E 0 1.7
CSEM II 04 17 05 06.0–.16 43.14N 18.74E 2 2.1L ¶601254765
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=123.0.
BEO II 04 20 52 27.3–.78 43.07N 19.00E 0 1.5
CSEM II 04 20 52 25.0–.26 43.07N 18.92E 15 1.5L ¶601254767
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.7km az=147.0.
ISC II 04 21 41 58.7–.82 42.28N–.02 20.86E–.02 3–8 133 0-5
CSEM II 04 21 41 59.1–.25 42.27N 20.84E 2 2.7L ¶16168023
SKO II 04 21 41 59.3 42.25N 20.81E 5 2.7L,1.6
PDG II 04 21 41 59.5–.36 42.34N 20.81E 10–0 2.7L,1.6
BEO II 04 21 42 00.5–.61 42.28N 20.88E 0 2.3,1.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.4km az=165.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=90.0.
BEO Event type ke.
ISC II 05 09 27 39.6–1.0 43.86N–.02 17.10E–.03 12–8 231 1-11
BEO II 05 09 27 38.8–.55 43.84N 16.92E 17–5 3.5 ¶16008966
CSEM II 05 09 27 39.2–.13 43.85N 17.12E 2 3.5L
PDG II 05 09 27 40.8–.41 43.91N 17.38E 2–1 3.5L
LDG II 05 09 27 40.6–.15 43.95N 17.18E 2 3.6L
PRU II 05 09 27 41.3 43.93N 17.42E 0 3.6L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=37.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.6km az=0.0.
LDG Event type ke. Error ellipse: s-maj=5.8km s-min=3.1km az=15.0.
ISC II 05 12 20 52.4–1.1 43.85N–.02 17.26E–.03 7–10 60 1-3
CSEM II 05 12 20 52.6–.27 43.85N 17.24E 2 2.5L ¶601254781
BEO II 05 12 20 53.0–.50 43.88N 17.25E 0 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.2km az=54.0.
BEO Event type ke.
ISC II 05 12 25 53.1–.91 45.73N–.02 15.65E–.03 8–6 62 0-2
ISCJB II 05 12 25 52.7–.48 45.72N–.02 15.61E–.04 6–5 ¶600312659
VIE II 05 12 25 52.7–.38 45.72N 15.63E 10–1 2.1L,1.9b
LJU II 05 12 25 52.5 45.72N 15.62E 14 0.0L,1.9b
CSEM II 05 12 25 53.1–.20 45.73N 15.63E 2 2.6L,1.9b
ROM II 05 12 25 53.9–1.0 45.76N 15.73E 10 2.5,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=153.2.
VIE Error ellipse: s-maj=2.3km s-min=1.4km az=130.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=64.0.
ROM Event type ke. Error ellipse: s-maj=18.2km s-min=11.5km az=29.0.
LJU II 06 23 50 28.3 46.02N 14.29E 7 0.0L
CSEM II 06 23 50 28.3 46.02N 14.29E 0 0.1L ¶601123781
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU II 08 01 48 33.5 45.88N 15.87E 10 0.0L
¶601123786
ISC II 08 16 29 45.5–1.0 43.90N–.02 17.25E–.02 6–7 3.6b 542 1-81
NEIC II 08 16 29 46.0–.34 43.88N 17.11E 10 4.0L ¶16019812
CSEM II 08 16 29 45.7–.07 43.87N 17.23E 2 4.1s,4.0L
IDC II 08 16 29 45.8–1.1 44.01N 17.37E 0 3.8,3.8L
ROM II 08 16 29 45.5–.19 43.87N 17.36E 10 4.0L,3.8L
VIE II 08 16 29 46.5–.58 43.88N 17.42E 10 4.1s,4.0L
BEO II 08 16 29 46.2–.45 43.92N 17.23E 4–3 4.0,4.0L
PDG II 08 16 29 46.1–.59 43.97N 17.38E 3–1 4.0L,3.9
LDG II 08 16 29 46.0–.07 43.94N 17.27E 2 4.2L,3.9
THE II 08 16 29 48.1 43.69N 17.36E 0–3 3.9L,3.9
PRU II 08 16 29 49.0 44.05N 17.33E 0 3.9L,3.9
STR II 08 16 29 55.2–.93 44.07N 16.37E 5 4.3L,3.9
ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.2km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=39.0.
IDC Error ellipse: s-maj=18.9km s-min=11.2km az=45.0.
ROM Event type ke. Error ellipse: s-maj=4.1km s-min=1.6km az=96.0.
VIE Error ellipse: s-maj=6.8km s-min=5.6km az=112.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.
LDG Event type ke. Error ellipse: s-maj=2.4km s-min=1.4km az=26.0.
THE Event type ke. Error ellipse: s-maj=5.9km s-min=0.7km az=328.0.
STR Event type ke.
ISC II 08 18 26 14.1–1.2 45.18N–.04 14.55E–.05 8–14 11 0-1
¶602903498
ISC Event type ke.
ISC II 08 21 57 07.7–1.3 45.19N–.04 14.54E–.05 7–12 13 1-1
¶602903499
ISC Event type ke.
ISC II 09 18 11 29.3–1.3 45.16N–.04 14.55E–.06 10 10 0-1
¶602903500
ISC Event type ke.
BEO II 09 19 14 25.9–.23 43.76N 20.57E 0 1.3
CSEM II 09 19 14 25.9 43.76N 20.57E 0 1.3L ¶601254883
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 11 02 53 26.8–1.0 42.19N–.02 20.71E–.01 6–9 155 0-6
CSEM II 11 02 53 27.1–.13 42.21N 20.70E 2 2.7L ¶16168055
SKO II 11 02 53 27.6 42.22N 20.71E 5 2.7L,1.8
PDG II 11 02 53 27.4–.34 42.24N 20.68E 11–0 2.5L,1.8
BEO II 11 02 53 28.1–.31 42.20N 20.71E 6–3 2.3,1.8
THE II 11 02 53 30.3 42.10N 20.93E 0–2 2.7L,1.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=39.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=1.2km az=319.0.
ISC II 11 03 27 22.6–1.1 42.21N–.02 20.69E–.01 5–9 171 0-6
CSEM II 11 03 27 22.6–.11 42.21N 20.69E 2 2.6L ¶16168056
THE II 11 03 27 22.8 42.26N 20.67E 1–1 3.0L
BEO II 11 03 27 23.6–.31 42.19N 20.70E 8–2 2.6
PDG II 11 03 27 23.0–.35 42.25N 20.67E 11–0 2.7L
SKO II 11 03 27 23.4 42.24N 20.70E 4 3.0L,2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=30.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=349.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
ISC II 11 03 29 33.8–1.1 42.22N–.02 20.70E–.01 5–9 196 1-7
CSEM II 11 03 29 34.1–.10 42.23N 20.70E 2 3.0L ¶16168057
SKO II 11 03 29 34.5 42.22N 20.71E 5 3.2L,2.4
PDG II 11 03 29 34.4–.40 42.25N 20.65E 12–0 3.1,3.0L
BEO II 11 03 29 35.2–.26 42.23N 20.71E 8–3 2.9,3.0L
THE II 11 03 29 36.0 42.34N 20.65E 27–3 3.3L,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=40.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.0km az=1.0.
LJU II 11 03 30 47.7 45.85N 15.18E 11 0.0L
CSEM II 11 03 30 48.2–.36 45.88N 15.20E 5 1.4L ¶601123814
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=5.7km az=177.0.
LJU II 12 03 06 24.8 45.99N 14.41E 0 0.0L
¶601123821
ISC II 12 11 10 37.5–.96 43.85N–.02 17.13E–.02 16–7 216 1-10
CSEM II 12 11 10 37.0–.13 43.82N 17.15E 2 3.2L ¶16024715
ISCJB II 12 11 10 37.8–.67 43.86N–.02 16.96E–.02 26–6 3.2L
BEO II 12 11 10 37.3–.49 43.91N 17.17E 4–3 3.2
LDG II 12 11 10 37.8–.06 43.87N 17.26E 2 3.3L
PDG II 12 11 10 37.8–.41 43.87N 17.26E 3–0 3.3L
PRU II 12 11 10 41.4 44.11N 17.35E 0 3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.6km az=34.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=26.7.
BEO Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=33.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.9km az=0.0.
LJU II 13 19 03 18.7 45.60N 15.36E 7 0.0L
CSEM II 13 19 03 19.5–.17 45.63N 15.32E 2 1.0L ¶601123833
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=82.0.
SKO II 14 03 44 35.0 41.34N 21.08E 2 1.9L,0.9
¶601108880
LJU II 14 17 25 04.0 45.63N 14.26E 15 0.0L
CSEM II 14 17 25 04.0 45.63N 14.26E 0 0.6L ¶601123842
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM II 15 00 12 26.2–.24 43.22N 18.70E 10 1.4L
BEO II 15 00 12 27.8–.37 43.28N 18.67E 0 1.6 ¶16168070
PDG II 15 00 12 27.5–.20 43.19N 18.79E 9–1 1.4L
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.6km az=123.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
LJU II 15 04 34 31.4 46.13N 14.83E 10 0.0L
CSEM II 15 04 34 31.4 46.13N 14.83E 0 0.5L ¶601123847
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH II 16 14 31 55.3 41.67N 22.38E 26–1 1.7L
BEO II 16 14 31 54.8–.76 41.58N 22.12E 0 1.7 ¶600896585
CSEM II 16 14 31 55.7–.19 41.67N 22.35E 2 1.7L
SKO II 16 14 31 56.2 41.67N 22.31E 2 1.7L
ATH Event type ke. Error ellipse: s-maj=4.5km s-min=1.2km az=162.0. Analyst: CHARALAMPAKIS ML Amplitudes are expressed in micrometres All distances are expressed in km.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.9km az=78.0.
ISC II 17 09 28 24.9–.91 43.15N–.02 18.74E–.02 8–7 89 0-3
CSEM II 17 09 28 24.4–.17 43.16N 18.73E 2 2.4L ¶16168080
PDG II 17 09 28 24.6–.20 43.15N 18.75E 13–0 2.5,2.4L
BEO II 17 09 28 25.5–.27 43.14N 18.80E 0 2.2,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.2km az=112.0.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.4km az=0.0.
BEO Event type ke.
ISC II 23 01 12 46.8–.81 43.20N–.01 18.83E–.02 7–5 182 0-7
CSEM II 23 01 12 46.4–.11 43.19N 18.85E 2 3.1L ¶16168096
PDG II 23 01 12 46.3–.21 43.20N 18.82E 11–0 3.2,3.1L
BEO II 23 01 12 47.3–.25 43.15N 18.86E 0 2.8,3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=90.0.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.4km az=0.0.
BEO Event type ke.
ISC II 24 23 48 40.2–.96 43.29N–.02 17.96E–.02 16–8 65 0-3
ISCJB II 24 23 48 39.5–.45 43.31N–.02 18.04E–.03 7–3 ¶601255003
CSEM II 24 23 48 40.0–.20 43.31N 18.04E 5 2.5L
BEO II 24 23 48 40.3–.33 43.29N 17.94E 18–3 2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.3km az=151.9.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=3.1km az=67.0.
BEO Event type ke.
ISC II 25 09 53 43.7–1.1 42.69N–.02 18.46E–.02 2–9 128 0-5
CSEM II 25 09 53 43.7–.20 42.67N 18.48E 2 2.6L ¶16168117
PDG II 25 09 53 43.4–.15 42.68N 18.46E 5–2 2.7,2.6L
BEO II 25 09 53 44.1–.41 42.64N 18.47E 0 2.4,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=62.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.3km az=0.0.
BEO Event type ke.
ISC II 26 04 24 21.4–1.1 41.41N–.01 21.05E–.01 1–9 226 0-6
TIR II 26 04 24 13.0–1.4 41.49N 20.09E 7 2.9L ¶16168141
ATH II 26 04 24 19.9 41.48N 21.04E 9–1 2.9L
SOF II 26 04 24 20.9 41.46N 21.05E 2 2.9
CSEM II 26 04 24 21.8–.13 41.38N 21.07E 2 3.0L
PDG II 26 04 24 21.5–.48 41.42N 21.03E 6–0 3.2L
THE II 26 04 24 21.5 41.43N 21.06E 0–2 3.0L
SKO II 26 04 24 22.0 41.41N 21.01E 8 3.2L,2.6
BEO II 26 04 24 22.2–.39 41.33N 21.08E 0 2.9,2.6
ISC Event type ke.
TIR Error ellipse: s-maj=2.7km s-min=4.2km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.5km az=177.0. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=54.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=1.2km az=328.0.
BEO Event type ke.
ISC II 27 02 45 08.0–.98 42.10N–.01 20.50E–.01 8–7 3.6b 296 0-43
TIR II 27 02 45 04.2–1.9 42.18N 20.53E 8–15 3.5L ¶16168216
IDC II 27 02 45 07.8–.93 42.10N 20.47E 0 3.6,3.5
ISCJB II 27 02 45 07.2–.31 42.12N–.01 20.50E–.02 1–2 3.6b,3.5
SKO II 27 02 45 08.5 42.11N 20.51E 2 3.3L,2.5
CSEM II 27 02 45 08.1–.11 42.11N 20.48E 2 3.5L,2.5
PDG II 27 02 45 08.0–.31 42.14N 20.49E 11–0 3.3,3.3L

BEO II 27 02 45 08.6–.24 42.06N 20.55E 0 2.9,3.3L
THE II 27 02 45 09.9 42.08N 20.67E 0–3 3.2L,3.3L
LDG II 27 02 45 11.4 42.22N 20.69E 30 3.2L,3.3L
PRU II 27 02 45 12.2 42.33N 20.76E 1 3.2L,3.3L
SOF II 27 02 45 14.3 42.28N 21.00E 15 3.3,3.3L
ISC Event type ke.
TIR Error ellipse: s-maj=19.0km s-min=29.1km az=-1.0.
IDC Error ellipse: s-maj=15.4km s-min=11.9km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=31.7.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.2km az=29.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=5.8km s-min=1.6km az=325.0.
LDG Event type ke.
BEO II 27 07 44 57.1–.50 42.69N 18.91E 0 1.7
CSEM II 27 07 44 55.5–.63 42.71N 18.85E 5 1.7L **¶601255021**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=8.3km az=173.0.
ISC II 27 18 24 05.0–1.1 43.89N–.02 17.25E–.02 5–10 98 1-6
BEO II 27 18 24 03.4–.58 43.91N 16.82E 9–5 2.8 **¶16168292**
CSEM II 27 18 24 05.4–.23 43.89N 17.26E 2 2.9L
PRU II 27 18 24 08.3 43.88N 17.06E 13 2.9L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=52.0.
ISC III 01 11 53 38.2–1.1 43.87N–.02 17.23E–.02 5–10 80 1-4
CSEM III 01 11 53 38.2–.24 43.88N 17.31E 2 2.7L **¶601241555**
BEO III 01 11 53 38.1–.47 43.89N 17.15E 8–4 2.7
VIE III 01 11 53 43.5–.53 44.22N 17.39E 10 2.6b,2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.4km az=55.0.
BEO Event type ke.
VIE Error ellipse: s-maj=7.1km s-min=3.6km az=40.0.
ISC III 04 11 00 25.2–1.0 43.13N–.02 17.65E–.02 7–9 97 0-4
PDG III 04 11 00 25.0–.21 43.13N 17.66E 1–0 2.5L **¶16401030**
BEO III 04 11 00 25.6–.42 43.10N 17.58E 6–3 2.4
CSEM III 04 11 00 25.2–.31 43.13N 17.66E 2 2.4L
VIE III 04 11 00 30.2–.59 43.44N 17.86E 10 2.5b,2.2L
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.2km az=58.0.
VIE Error ellipse: s-maj=5.1km s-min=4.1km az=171.0.
ISC III 04 23 52 24.1–1.1 44.72N–.02 18.56E–.02 6–9 129 0-4
ISCJB III 04 23 52 22.8–.39 44.73N–.02 18.56E–.02 3–3 **¶601241571**
CSEM III 04 23 52 23.5–.10 44.73N 18.57E 2 2.5L
BEO III 04 23 52 24.6–.27 44.70N 18.54E 11–2 2.3
VIE III 04 23 52 27.0–.65 44.78N 18.23E 6 2.7b,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=44.0.
BEO Event type ke.
VIE Error ellipse: s-maj=11.8km s-min=4.4km az=32.0.
ISC III 05 00 15 46.5–1.0 45.30N–.02 18.62E–.02 11–9 96 1-3
CSEM III 05 00 15 46.6–.19 45.27N 18.57E 10 2.4L **¶601255060**
BEO III 05 00 15 47.6–.31 45.31N 18.65E 15–3 2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=58.0.
BEO Event type ke.
BEO III 05 02 47 27.7–.30 43.41N 19.12E 1–5 1.4
CSEM III 05 02 47 27.7 43.41N 19.12E 1 1.4L **¶601255063**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BEO III 06 03 15 44.7–.25 43.58N 20.33E 3–2 1.6
CSEM III 06 03 15 44.7 43.58N 20.33E 3 1.6L **¶601255072**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
SKO III 06 22 03 48.2 41.76N 22.96E 1 1.9L,1.4
¶601108922
BEO III 06 22 19 08.9–.21 43.76N 20.72E 0 1.4
CSEM III 06 22 19 08.9 43.76N 20.72E 0 1.4L **¶601255075**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BEO III 06 23 10 55.0–.41 41.83N 22.85E 0 1.4
¶601255076
BEO Event type ke.
ISC III 07 11 34 47.6–1.1 41.79N–.02 22.91E–.03 13–10 65 1-3
CSEM III 07 11 34 46.8–.19 41.85N 22.91E 15 2.2L **¶16872289**
ISCJB III 07 11 34 46.4–.67 41.86N–.03 22.87E–.07 10–10 2.2L
SKO III 07 11 34 47.5 41.81N 22.94E 15 2.6L,2.0
ATH III 07 11 34 48.0 41.77N 22.90E 27–3 2.2L,2.0
BEO III 07 11 34 48.9–.67 41.82N 22.86E 2–1 2.3,2.0
THE III 07 11 34 49.6 41.71N 22.94E 21–0 2.2L,2.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=2.6km az=70.0.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=4.5km az=178.7.
ATH Event type ke. Error ellipse: s-maj=4.2km s-min=1.7km az=161.0. Analyst: Chousianitis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=338.0.
ISC III 09 01 50 21.5–.89 42.20N–.02 19.38E–.02 14–6 110 0-5
CSEM III 09 01 50 21.4–.20 42.21N 19.40E 8 2.4L **¶16401039**
PDG III 09 01 50 21.2–.11 42.20N 19.37E 20–0 2.5,2.4L
ISCJB III 09 01 50 21.3–.38 42.21N–.02 19.39E–.03 11–2 2.5,2.4L
BEO III 09 01 50 22.3–.38 42.23N 19.42E 10–2 2.3,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=173.0.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.3km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=3.2km az=3.9.
BEO Event type ke.
LJU III 09 04 46 01.1 45.69N 15.50E 12 0.6L
CSEM III 09 04 46 01.1 45.69N 15.49E 0 0.6L **¶601123977**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 09 18 16 48.9–1.2 43.10N–.04 20.84E–.03 7–9 38 0-1
ISCJB III 09 18 16 48.1–.92 43.10N–.04 20.85E–.03 14–15 **¶601255096**
BEO III 09 18 16 50.0–.37 43.09N 20.84E 0 1.5
CSEM III 09 18 16 50.0 43.09N 20.84E 0 1.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=3.7km az=19.7.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BEO III 10 09 09 51.0–.44 43.66N 22.05E 0 1.4
CSEM III 10 09 09 50.6–.26 43.64N 22.00E 2 1.4L **¶601255099**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.2km az=94.0.
LJU III 11 14 54 09.4 46.07N 14.73E 8 1.1L
CSEM III 11 14 54 09.4 46.07N 14.73E 0 1.1L **¶601123983**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU III 11 15 40 45.3 46.07N 14.72E 8 1.2L
CSEM III 11 15 40 45.3 46.07N 14.72E 0 1.2L **¶601123984**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BEO III 11 23 21 45.0–.27 43.45N 20.34E 3–2 1.7
CSEM III 11 23 21 44.1–.17 43.46N 20.35E 2 1.7L **¶601255109**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.6km az=33.0.
LJU III 12 06 57 44.9 45.91N 14.08E 14 1.1L
CSEM III 12 06 57 44.9 45.91N 14.08E 0 1.1L **¶601123988**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 12 07 13 28.4–1.1 42.18N–.03 20.60E–.02 6–9 102 0-4
CSEM III 12 07 13 28.4–.28 42.16N 20.59E 2 2.2L **¶16401049**
PDG III 12 07 13 28.3–.20 42.30N 20.65E 10–0 2.4L
BEO III 12 07 13 29.6–.40 42.15N 20.61E 4–4 2.2
SKO III 12 07 13 29.1 42.13N 20.59E 2 2.4L,1.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.5km az=1.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.4km az=90.0.
BEO Event type ke.
ISC III 12 12 53 42.5–1.1 42.46N–.02 21.64E–.03 6–9 53 0-2
ISCJB III 12 12 53 41.7–.48 42.47N–.02 21.63E–.04 1–6 **¶601108931**
CSEM III 12 12 53 42.3–.21 42.46N 21.61E 8 2.1L
SKO III 12 12 53 42.4 42.44N 21.56E 15 2.5L,1.7
BEO III 12 12 53 43.5–.34 42.46N 21.60E 12–3 2.4,1.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.6km az=1.1.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.4km az=89.0.
BEO Event type ke.
LJU III 12 22 36 44.1 45.96N 15.37E 6 0.2L
CSEM III 12 22 36 44.0 45.96N 15.37E 0 0.2L **¶601123990**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU III 13 03 08 23.7 46.77N 14.32E 0 0.9L
¶601123993
LJU III 13 03 42 23.3 46.20N 16.18E 26 1.0L
¶601123994
ISC III 16 21 52 58.2–.83 42.35N–.01 19.47E–.01 18–4 252 0-12
TIR III 16 21 52 47.7 42.32N 19.52E 8 3.4L **¶16340045**
PRU III 16 21 52 56.9 42.22N 19.68E 0 3.4L
LDG III 16 21 52 57.9–.06 42.45N 19.57E 2 3.8L
THE III 16 21 52 58.7 42.36N 19.54E 0–3 3.1L
BEO III 16 21 52 58.9–.28 42.33N 19.54E 16–2 3.2
PDG III 16 21 52 58.0–.50 42.35N 19.51E 14–0 3.7,3.6L
ISCJB III 16 21 52 58.7–.25 42.37N–.02 19.39E–.02 24–2 3.7,3.6L
CSEM III 16 21 52 58.3–.12 42.36N 19.44E 10 3.6L,3.6L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=14.0.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.1km az=286.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.6km az=32.7.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.6km az=17.0.
LJU III 17 05 17 29.3 46.53N 14.62E 6 0.3L
¶601124025
LJU III 18 00 58 45.0 46.03N 14.78E 11 0.2L
CSEM III 18 00 58 45.0 46.03N 14.78E 0 0.2L **¶601124035**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU III 18 19 30 00.8 46.39N 15.07E 0 0.1L
¶601124040
LJU Rockburst.
LJU III 20 01 39 47.7 45.65N 15.32E 0 0.3L
CSEM III 20 01 39 47.7 45.65N 15.32E 0 0.3L **¶601124056**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 20 08 12 20.7–1.1 42.33N–.03 19.46E–.02 14–9 77 0-4
CSEM III 20 08 12 20.4–.21 42.31N 19.48E 20–0 1.8L **¶16401076**
PDG III 20 08 12 21.1–.08 42.34N 19.47E 17–0 2.1,2.0L
BEO III 20 08 12 21.0–.62 42.32N 19.45E 13–5 1.8,2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=160.0.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
BEO Event type ke.
ISC III 21 00 04 12.7–.95 44.83N–.02 17.09E–.02 4–7 382 0-44
NEIC III 21 00 04 12.0 44.88N 17.18E 8 3.6L,3.5L **¶16349265**
ISCJB III 21 00 04 12.5–.33 44.86N–.01 17.14E–.02 6–2 3.0b,3.5L
CSEM III 21 00 04 12.8–.08 44.82N 17.11E 2 3.6L,3.5L
PDG III 21 00 04 12.6–.50 44.87N 17.18E 10–1 3.5L,3.5L
LDG III 21 00 04 12.5–.05 44.89N 17.21E 2 3.4L,3.5L
BEO III 21 00 04 13.8–.34 44.83N 17.26E 0 3.3,3.5L
IDC III 21 00 04 13.8–1.1 44.94N 17.12E 0 3.7L,3.4
PRU III 21 00 04 13.3 44.83N 16.97E 0 3.7L,3.4
ROM III 21 00 04 14.4–.30 44.82N 17.03E 10 3.5L,3.4
VIE III 21 00 04 15.3–.97 44.98N 17.18E 10 3.2L,3.0b
ISC Event type fe.
NEIC Event type fe. Felt [II] at Banja Luka. After PDG.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=1.6km az=39.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=30.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.
LDG Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=31.0.
BEO Event type ke.
IDC Error ellipse: s-maj=16.4km s-min=11.7km az=50.0.
ROM Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=58.0.
VIE Error ellipse: s-maj=11.1km s-min=7.3km az=164.0.
ISC III 22 16 17 03.7–.92 42.33N–.02 19.52E–.02 14–7 104 0-4
CSEM III 22 16 17 03.2–.20 42.35N 19.56E 2 2.5L **¶16401085**
ISCJB III 22 16 17 03.1–.34 42.36N–.02 19.57E–.02 6–4 2.5L
PDG III 22 16 17 03.0–.10 42.33N 19.52E 23–0 2.6,2.5L
BEO III 22 16 17 04.0–.28 42.36N 19.54E 11–3 2.3,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=171.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=152.7.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
BEO Event type ke.
ISC III 24 04 02 44.3–1.0 42.68N–.02 18.21E–.02 4–9 174 0-7
TIR III 24 04 02 32.9 42.49N 17.75E 37 3.5L **¶16401089**
CSEM III 24 04 02 44.7–.16 42.66N 18.22E 2 3.0L
BEO III 24 04 02 44.5–.51 42.61N 18.11E 5–3 3.1
PDG III 24 04 02 45.0–.43 42.71N 18.26E 8–0 3.0,3.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.9km az=25.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
ISC III 24 07 18 43.5–2.5 44.3N–.10 15.32E–.05 12–13 10 0-2
¶603515468
ISC Event type ke.
ISC III 24 18 27 08.9–1.1 43.74N–.02 18.59E–.02 4–10 106 0-5
CSEM III 24 18 27 09.1–.16 43.75N 18.64E 2 2.6L **¶601242500**
BEO III 24 18 27 10.0–.27 43.76N 18.57E 0 2.5
VIE III 24 18 27 13.9–.78 44.08N 18.60E 10 2.5b,2.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.9km az=41.0.
BEO Event type ke.
VIE Error ellipse: s-maj=10.7km s-min=4.9km az=18.0.
ISC III 24 23 22 06.5–1.1 45.21N–.03 14.76E–.04 10–10 38 0-1
CSEM III 24 23 22 06.0–.21 45.20N 14.74E 15 2.3L **¶601242501**
VIE III 24 23 22 08.5–.52 45.34N 14.76E 5 1.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.1km az=64.0.
VIE Error ellipse: s-maj=3.4km s-min=1.8km az=177.0.
ISC III 25 00 38 46.5–1.2 45.17N–.03 14.75E–.03 12–9 62 0-2
CSEM III 25 00 38 46.1–.34 45.15N 14.76E 15 2.6L **¶601242502**
VIE III 25 00 38 49.6–.32 45.34N 14.80E 5 1.9L,1.4b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.5km az=2.0.
VIE Error ellipse: s-maj=1.9km s-min=1.2km az=2.0.
ISC III 25 07 33 50.5–1.1 45.20N–.02 14.74E–.03 8–10 64 0-1
CSEM III 25 07 33 50.6–.13 45.20N 14.75E 10 2.9L **¶601242503**
ISCJB III 25 07 33 50.0–.59 45.21N–.02 14.77E–.04 15–10 2.9L
VIE III 25 07 33 51.8–.37 45.28N 14.79E 9–3 2.3L,1.9b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=65.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.5km az=155.4.
VIE Error ellipse: s-maj=2.4km s-min=1.2km az=169.0.
ISC III 25 09 14 37.5–1.1 45.20N–.03 14.76E–.04 12–12 30 0-1
CSEM III 25 09 14 37.6–.18 45.20N 14.77E 10 2.5L **¶602003528**
ISCJB III 25 09 14 37.4–.68 45.20N–.03 14.78E–.06 7–14 2.5L

ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 25 10 55 38.8–1.3 45.14N–.04 14.72E–.04 9–10 50 0-2
CSEM III 25 10 55 40.2–.28 45.20N 14.74E 10 2.6L ¶601242504
VIE III 25 10 55 41.0–.50 45.27N 14.73E 7–2 1.9L,1.4b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=4.0km az=37.0.
VIE Error ellipse: s-maj=3.1km s-min=1.7km az=0.0.
LJU III 25 13 02 51.7 45.93N 14.97E 7 1.2L
CSEM III 25 13 02 51.7 45.93N 14.97E 0 1.2L ¶601124092
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 25 15 05 14.1–1.3 45.20N–.04 14.73E–.05 9–15 16 0-1
¶603515470
ISC Event type ke.
ISC III 26 22 16 10.5–.79 45.48N–.02 16.49E–.02 15–5 106 0-4
VIE III 26 22 16 09.8–.41 45.57N 16.61E 8–1 2.3L,1.9b ¶16373248
LJU III 26 22 16 09.1 45.47N 16.58E 0 2.2L,1.9b
PRU III 26 22 16 10.4 45.50N 16.44E 0 2.2L,1.9b
CSEM III 26 22 16 11.0–.15 45.48N 16.43E 10 2.7L,1.9b
BEO III 26 22 16 14.8–.77 45.52N 16.70E 0 2.5,1.9b
ISC Event type ke.
VIE Error ellipse: s-maj=3.7km s-min=1.5km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=31.0.
BEO Event type ke.
PDG III 28 17 20 51.9–.09 43.15N 18.74E 11–0 2.2L,2.0
CSEM III 28 17 20 51.3–.27 43.16N 18.75E 10 2.2L,2.0 ¶16401382
BEO III 28 17 20 51.9–.32 43.09N 18.81E 9–5 1.8,2.0
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.1km az=117.0.
BEO Event type ke.
ISC III 29 02 55 05.2–1.1 41.83N–.01 22.13E–.01 1–9 209 1-8
SKO III 29 02 55 04.7 41.83N 22.10E 15 3.2L,2.8 ¶16872588
SOF III 29 02 55 05.5 41.86N 22.16E 4 2.9,2.8
BEO III 29 02 55 05.6–.34 41.78N 22.08E 13–3 2.9,2.8
CSEM III 29 02 55 05.2–.09 41.85N 22.10E 2 3.1L,2.8
THE III 29 02 55 06.1 41.80N 22.15E 1–0 3.0L,2.8
ATH III 29 02 55 06.2 41.77N 22.16E 19–1 2.8L,2.8
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=81.0.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=337.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=163.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC III 29 08 48 28.1–1.1 42.43N–.02 21.53E–.03 9–9 49 0-3
CSEM III 29 08 48 27.9–.19 42.42N 21.54E 5 2.5L ¶601108981
BEO III 29 08 48 28.0–.33 42.40N 21.46E 0 2.4
SKO III 29 08 48 28.1 42.41N 21.56E 15 2.4L,1.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=89.0.
BEO Event type ke.
LJU III 30 01 33 30.9 46.17N 15.03E 11 0.0L
CSEM III 30 01 33 30.9 46.17N 15.03E 0 0.0L ¶601124141
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 30 04 01 39.7–.92 42.44N–.02 19.21E–.02 19–2 77 0-4
IASPE III 30 04 01 39.5–.91 42.44N–.02 19.21E–.02 19–2 ¶16401469
PDG III 30 04 01 39.4–.11 42.43N 19.19E 20–0 1.7L
CSEM III 30 04 01 39.2–.24 42.44N 19.21E 18–2 1.7L
BEO III 30 04 01 40.1–.61 42.40N 19.31E 15–3 1.5
ISCJB III 30 04 01 40.2–.39 42.41N–.02 19.18E–.03 17–4 1.5
ISC Event type ke.
IASPE Event type ke. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
PDG Event type ke.
CSEM Event type ke.
BEO Event type ke.
ISCJB Event type ke.
LJU IV 01 07 52 31.5 46.05N 14.76E 9 0.5L
CSEM IV 01 07 52 31.5 46.04N 14.76E 0 0.5L ¶601124160
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU IV 03 13 13 57.2 45.79N 15.43E 2 0.5L
CSEM IV 03 13 13 57.2 45.79N 15.43E 0 0.5L ¶601124173
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 03 17 15 04.3–1.1 43.77N–.02 20.74E–.02 1–10 74 0-4
CSEM IV 03 17 15 04.0–.13 43.76N 20.74E 2 2.5L ¶601258547
BEO IV 03 17 15 05.0–.21 43.76N 20.73E 0 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=37.0.
BEO Event type ke.
ISC IV 04 02 18 13.7–.92 45.54N–.02 16.54E–.02 10–7 149 0-5
PRU IV 04 02 18 07.8 45.27N 15.75E 0 ¶16413430
CSEM IV 04 02 18 13.8–.14 45.53N 16.54E 2 2.9L
LJU IV 04 02 18 13.6 45.47N 16.47E 0 2.2L
BEO IV 04 02 18 14.5–1.1 45.60N 16.58E 10–5 2.7
VIE IV 04 02 18 15.5–1.6 45.60N 16.42E 11–9 2.5L,2.2b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.4km az=34.0.
BEO Event type ke.
VIE Error ellipse: s-maj=9.9km s-min=4.7km az=115.0.
BEO IV 04 09 35 01.8–1.3 44.40N 18.24E 0 1.4
¶601258553
BEO Event type ke.
SKO IV 06 13 06 24.0 41.11N 22.45E 2 0.7L,0.5
¶601109000
LJU IV 08 18 39 06.0 46.39N 15.07E 0 1.0L
¶601124222
LJU Rockburst.
ISC IV 09 16 49 26.4–.96 44.79N–.02 17.97E–.02 6–8 106 0-6
ISCJB IV 09 16 49 25.3–.36 44.82N–.02 17.99E–.02 4–3 ¶601242531
CSEM IV 09 16 49 26.3–.08 44.81N 17.97E 5 2.8L
BEO IV 09 16 49 27.2–.35 44.86N 17.99E 9–2 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=33.8.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=1.5km az=30.0.
BEO Event type ke.
LJU IV 11 22 06 14.2 45.77N 14.85E 2 0.5L
CSEM IV 11 22 06 14.2 45.77N 14.85E 0 0.5L ¶601124250
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
VIE IV 11 23 13 47.9–.30 46.39N 15.08E 0 0.9L,0.3b
CSEM IV 11 23 13 47.8–.21 46.39N 15.09E 1 0.9L,0.3b ¶601242539
VIE Event type sr. Error ellipse: s-maj=2.5km s-min=1.4km az=5.0. Suspected Mining induced.
CSEM Event type sr. Error ellipse: s-maj=6.4km s-min=3.5km az=80.0. Suspected Mining induced.
ISC IV 12 05 58 30.8–1.1 46.04N–.02 16.92E–.02 11–9 113 0-5
BEO IV 12 05 58 23.2–.89 46.24N 16.17E 0 3.1 ¶16436693
ISCJB IV 12 05 58 29.1–.48 46.07N–.02 16.98E–.03 4–3 3.1
LJU IV 12 05 58 30.3 46.05N 16.94E 27 2.4L
CSEM IV 12 05 58 30.2–.16 46.05N 16.95E 5 3.3L
PRU IV 12 05 58 33.2 46.30N 17.11E 4 3.3L
ISC Event type ke.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=135.5.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=30.0.
ISC IV 12 06 51 08.0–1.0 46.04N–.01 16.92E–.01 18–3 190 0-6
BEO IV 12 06 50 55.9–.77 46.37N 15.75E 0 3.3 ¶16436694
CSEM IV 12 06 51 06.9–.10 46.06N 16.95E 5 3.0L
LJU IV 12 06 51 07.4 46.06N 16.91E 27 2.6L
ISCJB IV 12 06 51 08.1–.41 46.05N–.02 16.96E–.02 19–4 2.6L
PRU IV 12 06 51 09.3 46.28N 17.02E 0 2.6L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=23.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=137.1.
ISC IV 13 04 42 38.4–1.0 41.83N–.02 22.97E–.03 9–12 44 1-2
ISCJB IV 13 04 42 37.5–.50 41.84N–.02 22.94E–.05 7–7 ¶601070317
CSEM IV 13 04 42 37.9–.16 41.83N 22.95E 10 2.4L
SKO IV 13 04 42 37.2 41.83N 23.05E 27 1.9L,1.5
BEO IV 13 04 42 39.5–.36 41.83N 22.92E 0 1.8,1.5
THE IV 13 04 42 39.3 41.77N 23.01E 4–0 2.4L,1.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.5km az=179.5.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=74.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=179.0.
LJU IV 15 07 00 32.4 46.39N 15.07E 0 1.0L
¶601124262
LJU Rockburst.
LJU IV 15 08 42 30.9 46.39N 15.07E 0 1.0L
¶601124266
LJU Rockburst.
BEO IV 15 12 06 02.8–.37 44.12N 20.43E 0 1.2
CSEM IV 15 12 06 02.8 44.12N 20.43E 0 1.2L ¶601258616
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH IV 15 19 37 12.0 41.29N 22.68E 16–5 1.2L
SKO IV 15 19 37 09.3 41.44N 22.58E 15 1.7L,1.5 ¶600916195
CSEM IV 15 19 37 11.5–.37 41.32N 22.64E 5 1.7L,1.5
ATH Event type ke. Error ellipse: s-maj=5.1km s-min=1.4km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=172.0.
ISC IV 16 17 16 17.1–1.0 44.38N–.02 17.73E–.02 7–7 3.6b 573 0-93
ISCJB IV 16 17 16 15.7–.32 44.406N–.01 17.71E–.01 2–2 3.9s,3.5b ¶16445566
BEO IV 16 17 16 16.5–.28 44.36N 17.65E 0 3.7,3.5b
IDC IV 16 17 16 16.7–.68 44.32N 17.52E 0 3.8,3.7
ROM IV 16 17 16 17.7–.37 44.35N 17.80E 10 4.0L,3.7
PDG IV 16 17 16 17.4–.79 44.41N 17.83E 12–1 3.8,3.8L
LDG IV 16 17 16 17.3–.06 44.42N 17.86E 10 3.9L,3.8L
CSEM IV 16 17 16 17.0–.06 44.38N 17.73E 2 4.1L,3.8L
PRU IV 16 17 16 18.4 44.43N 17.76E 0 4.1L,3.8L
THE IV 16 17 16 18.1 44.46N 17.62E 29–22 3.6L,3.8L
TIR IV 16 17 16 27.8 42.37N 16.85E 7 4.0L,3.8L
STR IV 16 17 16 29.9–5.7 44.65N 16.52E 5 3.9L,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=35.7.
BEO Event type ke.
IDC Error ellipse: s-maj=15.7km s-min=9.2km az=63.0.
ROM Event type ke. Error ellipse: s-maj=6.4km s-min=2.9km az=63.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.8km az=0.0.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=38.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=28.0.
THE Event type ke. Error ellipse: s-maj=26.2km s-min=3.4km az=320.0.
STR Event type ke.
LJU IV 17 05 10 29.4 45.60N 14.26E 15 0.6L
CSEM IV 17 05 10 29.4 45.60N 14.26E 0 0.6L ¶601124275
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 17 18 30 34.1–.79 45.52N–.02 16.46E–.01 11–5 261 0-8
BEO IV 17 18 30 27.9–.66 45.67N 15.92E 0 3.2 ¶16445586
LJU IV 17 18 30 32.9 45.47N 16.47E 0 2.9L
ISCJB IV 17 18 30 33.4–.28 45.55N–.01 16.43E–.02 12–2 2.9L
CSEM IV 17 18 30 33.5–.09 45.54N 16.47E 2 3.6L
PDG IV 17 18 30 34.1–.82 45.52N 16.53E 11–2 3.1L
LDG IV 17 18 30 34.4–.22 45.61N 16.68E 10 3.0L
PRU IV 17 18 30 36.8 45.76N 16.44E 0 3.0L
ISC Event type ke.
BEO Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=1.9km az=147.7.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=38.0.
PDG Event type ke. Error ellipse: s-maj=1.3km s-min=2.1km az=0.0.
LDG Event type ke. Error ellipse: s-maj=5.1km s-min=4.9km az=124.0.
ISC IV 17 20 03 27.7–1.1 44.15N–.02 18.10E–.02 4–10 112 1-7
PRU IV 17 20 03 27.1 43.97N 18.44E 16 ¶16445588
CSEM IV 17 20 03 28.2–.12 44.14N 18.12E 2 2.5L
BEO IV 17 20 03 28.9–.33 44.15N 18.02E 4–2 2.5
VIE IV 17 20 03 32.5–.89 44.41N 18.05E 8 2.6b,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=53.0.
BEO Event type ke.
VIE Error ellipse: s-maj=13.0km s-min=7.4km az=60.0.
ISC IV 18 14 18 00.4–.70 41.19N–.01 22.86E–.01 13–4 3.5b 317 0-71
ISCJB IV 18 14 17 59.6–.28 41.23N–.01 22.87E–.02 10–2 3.5b ¶16489763
CSEM IV 18 14 17 59.9–.09 41.20N 22.86E 5 3.4L
SKO IV 18 14 17 59.1 41.16N 22.85E 21 3.0L,3.0
ATH IV 18 14 17 59.4 41.22N 22.87E 21–0 3.5L,3.0
PDG IV 18 14 17 59.9–.60 41.23N 22.83E 12–0 3.5L,3.0
IASPE IV 18 14 18 00.0–.79 41.21N–.02 22.85E–.02 15–4 3.5b,3.0
SOF IV 18 14 18 00.0 41.23N 22.89E 4 3.6,3.0
THE IV 18 14 18 00.5 41.21N 22.85E 12–0 3.4L,3.0
IDC IV 18 14 18 03.1–4.6 41.29N 22.83E 29–36 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=36.8.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=43.0.
ATH Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=176.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.7km az=0.0.
IASPE Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=13.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=11.0.
IDC Error ellipse: s-maj=21.9km s-min=13.7km az=14.0.
SKO IV 18 14 23 46.6 41.22N 22.83E 15 1.2L,1.0
¶601109021
LJU IV 19 06 08 02.7 46.63N 15.12E 4 0.6L
¶601124287
LJU IV 19 21 50 08.3 45.73N 15.09E 6 0.8L
CSEM IV 19 21 50 08.3–.09 45.74N 15.10E 10 1.5L ¶601124292
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=49.0.
VIE IV 20 01 02 27.4–.59 46.39N 15.09E 0 0.7L,0.3b
LJU IV 20 01 02 27.1 46.39N 15.07E 0 1.0L,0.3b ¶601124293
VIE Event type sr. Error ellipse: s-maj=4.7km s-min=2.9km az=177.0. Suspected Mining induced.
LJU Rockburst.
ISC IV 21 22 36 50.7–.81 41.16N–.02 22.85E–.02 11–5 52 0-4
ATH IV 21 22 36 49.9 41.21N 22.86E 14–2 2.1L ¶600916366
SKO IV 21 22 36 49.3 41.06N 22.83E 15 1.9L,1.7
ISCJB IV 21 22 36 50.3–.42 41.18N–.03 22.86E–.04 10–3 1.9L,1.7
CSEM IV 21 22 36 51.2–.27 41.13N 22.88E 20–0 2.1L,1.7
BEO IV 21 22 36 51.9–1.4 41.14N 22.41E 0 1.6,1.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=332.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.0km az=37.7.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=6.0km az=43.0.
BEO Event type ke.
ISC IV 23 05 43 06.0–2.0 45.33N–.06 16.0E–.10 13 7 1-1
¶603516112
ISC Event type ke.
ISC IV 27 11 13 50.4–.86 42.99N–.02 18.37E–.01 12–6 183 0-7
ISCJB IV 27 11 13 49.5–.32 43.02N–.01 18.34E–.02 6–2 ¶16466103
CSEM IV 27 11 13 50.2–.13 43.00N 18.38E 5 3.3L
PDG IV 27 11 13 50.3–.37 42.99N 18.40E 16–0 3.3,3.3L
BEO IV 27 11 13 50.5–.25 42.97N 18.33E 12–2 3.1,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=142.1.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=46.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.

BEO Event type ke.
ISC IV 28 23 30 44.6–.77 44.76N–.02 17.31E–.02 8–5 4.2b,3.6s 873 0-125
THE IV 28 23 30 35.9 45.18N 16.96E 4–25 4.3L,3.6s **¶16482371**
ISCJB IV 28 23 30 41.7–.28 44.755N–.01 17.34E–.01 1–2 4.2b,3.6s
LDG IV 28 23 30 43.0–.09 44.77N 17.34E 10 4.4L,3.6s
BEO IV 28 23 30 43.5–.29 44.78N 17.31E 9–2 4.4,3.6s
CSEM IV 28 23 30 43.3–.05 44.74N 17.34E 2 4.5L,4.3b
IDC IV 28 23 30 43.3–.53 44.78N 17.25E 0 4.1,4.0L
MOS IV 28 23 30 43.0–1.3 44.77N 17.17E 10 4.3b,4.0L
NEIC IV 28 23 30 44.9–1.4 44.81N 17.28E 9–10 4.4L,4.3b
PDG IV 28 23 30 44.1–.53 44.74N 17.33E 21–1 4.2,4.2L
ROM IV 28 23 30 44.4–.28 44.74N 17.31E 10 4.5L,4.2L
PRU IV 28 23 30 46.3 44.81N 17.36E 14 4.3,4.2L
TIR IV 28 23 30 53.4 44.01N 16.22E 5 4.5L,4.2L
STR IV 28 23 31 01.2–.39 44.99N 15.56E 10 4.5L,4.2L
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=33.0km s-min=3.5km az=323.0.
ISCJB Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=34.6.
LDG Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=30.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=34.0.
IDC Error ellipse: s-maj=10.0km s-min=7.5km az=51.0.
MOS Error ellipse: s-maj=4.6km s-min=4.1km az=132.5.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.6km az=196.0. Moment Tensor Solution.
s20 Moment tensor: Scale 10^{15}Nm; M_{rr}-0.18 $M_{\theta\theta}$-1.47 $M_{\phi\phi}$1.65 $M_{r\theta}$0.49 $M_{\theta\phi}$1.90 $M_{\phi r}$0.52
Best double couple: NP1:ϕ_s340.00000°,δ76.00000°,λ175.00000°. NP2:ϕ_s71.00000°
,δ85.00000°,λ14.00000°. Principal axes: T 2.7100,Plg13.0000°,Azm296.0000°
; N -0.3200,Plg75.0000°,Azm91.0000°; P -2.3900,Plg6.0000°,Azm204.0000°
M_o2.60000×10^{15}
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.8km az=0.0.
ROM Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=68.0.
STR Event type ke.
LJU V 04 09 54 19.1 46.01N 15.69E 5 1.2L
CSEM V 04 09 54 19.1 46.01N 15.69E 0 1.2L **¶601124427**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 04 15 00 40.9–1.1 43.93N–.03 16.96E–.04 9–10 106 1-4
CSEM V 04 15 00 44.6–.25 43.89N 17.31E 2 2.7L **¶16553231**
BEO V 04 15 00 44.6–.51 43.88N 17.19E 13–4 2.6
PDG V 04 15 00 44.6–.36 43.88N 17.25E 3–0 2.9L
VIE V 04 15 00 44.9–2.4 44.01N 17.92E 8 2.5b,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.7km az=58.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=2.3km az=0.0.
VIE Error ellipse: s-maj=32.2km s-min=17.6km az=48.0.
ISC V 05 07 28 05.8–.90 45.03N–.03 14.76E–.03 10 36 0-2
¶603797392
ISC Event type ke.
LJU V 05 16 02 52.8 46.39N 15.07E 0 1.8L
¶601124439
LJU Rockburst.
ISC V 06 01 53 43.7–.89 43.88N–.02 17.27E–.02 1–8 180 1-10
BEO V 06 01 53 43.3–.50 43.87N 17.15E 6–3 3.0 **¶16501733**
CSEM V 06 01 53 44.2–.14 43.88N 17.30E 2 3.0L
PDG V 06 01 53 44.9–.44 43.95N 17.43E 4–0 3.1L
LDG V 06 01 53 44.3–.13 43.83N 17.08E 10 3.2L
PRU V 06 01 53 49.5 44.25N 17.52E 0 3.2L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=41.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.2km az=0.0.
LDG Event type ke. Error ellipse: s-maj=5.3km s-min=2.6km az=30.0.
ISC V 06 09 54 02.1–1.1 43.12N–.02 18.14E–.02 6–9 91 0-3
CSEM V 06 09 54 01.9–.22 43.12N 18.15E 2 2.5L **¶16553235**
BEO V 06 09 54 02.8–.30 43.13N 18.11E 12–3 2.3
PDG V 06 09 54 02.1–.21 43.11N 18.15E 13–0 2.6,2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=67.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
ISC V 06 23 44 52.4–.85 45.00N–.01 14.98E–.02 11–6 3.8b 805 0-78
ISCJB V 06 23 44 51.6–.24 45.021N–.01 14.98E–.01 13–1 3.8b,3.5s **¶602920609**
LDG V 06 23 44 52.0–.07 45.09N 15.13E 2 4.2L,3.5s
NEIC V 06 23 44 52.3 45.00N 15.03E 9 4.2L,4.0b
CSEM V 06 23 44 52.2–.05 45.00N 14.97E 5 4.6L,4.0b
IDC V 06 23 44 52.1–.87 45.09N 15.15E 0 3.9,3.8L
PDG V 06 23 44 52.3–.79 45.01N 14.99E 13–1 4.5,4.4L
ROM V 06 23 44 52.3–.10 44.95N 15.04E 10 4.2L,4.4L
VIE V 06 23 44 53.6–.59 45.08N 15.02E 6 4.2L,3.8b
BEO V 06 23 44 53.4–1.7 45.16N 15.15E 0 4.2,3.8b
PRU V 06 23 44 53.2 45.08N 15.14E 0 4.0,3.8b
STR V 06 23 45 01.6–.30 45.26N 14.37E 5 4.3L,3.8b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=36.1.
LDG Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=21.0.
NEIC Event type fe. Felt at Rijeka. After ZAG.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=37.0.
IDC Error ellipse: s-maj=14.2km s-min=9.1km az=54.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.8km az=0.0.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=73.0.
VIE Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=147.0.
BEO Event type ke.
STR Event type ke.
ISC V 08 09 47 11.9–.78 41.99N–.01 21.28E–.02 9–5 3.4b 313 0-70
PRU V 08 09 47 04.8 41.64N 21.53E 0 3.4b **¶602920612**
TIR V 08 09 47 09.0 40.06N 21.18E 25 3.2L
IDC V 08 09 47 10.6–1.1 42.05N 21.09E 0 3.5b,3.5
SOF V 08 09 47 10.9 41.97N 21.35E 15 2.8,3.5
ISCJB V 08 09 47 10.2–.35 42.04N–.01 21.30E–.02 0–2 3.4b,3.5
NEIC V 08 09 47 11.4–.58 42.01N 21.25E 5 3.4L,3.5
SKO V 08 09 47 11.2 41.93N 21.29E 15 3.4L,3.1
CSEM V 08 09 47 11.4–.09 42.01N 21.28E 2 3.5L,3.1
PDG V 08 09 47 11.3–.54 42.03N 21.29E 9–0 3.5L,3.4
THE V 08 09 47 11.9 42.01N 21.30E 2–3 3.5L,3.4
BEO V 08 09 47 12.2–.36 42.01N 21.27E 13–2 3.2,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=24.6km s-min=15.1km az=34.0.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.7km az=143.2.
NEIC Event type fe. Error ellipse: s-maj=8.8km s-min=6.5km az=131.0. Felt [II] at Skopje.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=50.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
THE Event type ke. Error ellipse: s-maj=3.9km s-min=1.7km az=18.0.
BEO Event type ke.
ISC V 10 06 00 37.0–1.0 45.20N–.02 16.05E–.03 12–9 55 0-3
CSEM V 10 06 00 37.6–.22 45.22N 15.98E 2 2.7L **¶601242653**
VIE V 10 06 00 49.5–.37 45.87N 15.34E 10 1.7L,1.2b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.5km az=56.0.
VIE Error ellipse: s-maj=4.6km s-min=2.6km az=56.0.
SKO V 12 14 31 10.3 41.02N 22.36E 2 1.4L,1.0
¶601109123
LJU V 14 08 45 08.3 45.64N 14.25E 15 1.4L
CSEM V 14 08 45 08.5–.10 45.64N 14.24E 15 2.0L **¶16529946**
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=53.0.
ISC V 14 23 32 30.6–.99 42.01N–.01 20.86E–.02 10–7 3.8b 522 0-58
SKO V 14 23 32 28.9 41.99N 20.74E 11 3.8L,3.0 **¶602920615**
ISCJB V 14 23 32 29.4–.29 42.051N–.01 20.83E–.01 4–2 3.8b,3.0
ATH V 14 23 32 29.8 42.04N 20.89E 14–1 3.5L,3.0
IDC V 14 23 32 29.8–.88 42.00N 20.76E 0 3.7,3.7b
CSEM V 14 23 32 30.4–.06 42.03N 20.78E 2 3.6L,3.7b
LDG V 14 23 32 30.3–.15 41.99N 20.91E 2 3.9L,3.7b
PDG V 14 23 32 30.1–.52 42.02N 20.86E 2–0 3.7,3.7L
THE V 14 23 32 30.4 42.07N 20.89E 1–1 3.6L,3.7L
BEO V 14 23 32 31.3–.25 42.04N 20.89E 11–2 3.3,3.7L
TIR V 14 23 32 31.6 42.13N 20.79E 50 3.9L,3.7L
PRU V 14 23 32 33.1 42.00N 20.59E 4 3.9L,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=145.5.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=173.0.
IDC Error ellipse: s-maj=13.2km s-min=10.6km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=50.0.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=175.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.4km az=90.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=341.0.
BEO Event type ke.
LJU V 18 21 58 25.5 45.95N 15.35E 7 0.0L
CSEM V 18 21 58 25.6 45.95N 15.35E 0 0.0L **¶601124632**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
BEO V 20 07 39 38.4–.52 44.25N 21.90E 0 1.2
CSEM V 20 07 39 38.4 44.25N 21.90E 0 1.2L **¶601258772**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 20 12 28 40.4–1.1 43.73N–.02 17.71E–.02 8–10 94 1-3
PDG V 20 12 28 40.9–.22 43.69N 17.71E 3–0 2.7L **¶16553243**
CSEM V 20 12 28 40.4–.20 43.73N 17.71E 2 2.7L
BEO V 20 12 28 41.6–.52 43.76N 17.72E 3–3 2.5
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=1.0km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.8km az=62.0.
BEO Event type ke.
LJU V 23 01 58 34.1 45.38N 14.47E 7 1.2L
CSEM V 23 01 58 33.5–.42 45.34N 14.44E 10 2.1L **¶601124665**
VIE V 23 01 58 34.3–.77 45.39N 14.51E 6 1.8L
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.2km az=14.0.
VIE Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=173.0.
ISC V 24 11 54 54.2–1.0 42.37N–.02 21.62E–.03 9–9 63 0-3
ISCJB V 24 11 54 53.0–.45 42.38N–.02 21.60E–.04 3–4 **¶601078268**
CSEM V 24 11 54 53.8–.19 42.37N 21.63E 5 2.3L
BEO V 24 11 54 54.1–.36 42.35N 21.64E 8–2 2.2
SKO V 24 11 54 56.2 42.20N 21.57E 20 2.3L
THE V 24 11 54 57.9 42.12N 21.78E 0–2 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.8km az=166.2.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.1km az=82.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=4.0.
PDG V 24 18 15 07.6–.21 42.84N 18.59E 13–1 1.9,1.8L
CSEM V 24 18 15 06.9–.22 42.86N 18.56E 10 1.8L,1.8L **¶16553250**
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.7km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.8km az=98.0.
BEO V 24 18 15 08.3–.55 44.92N 20.25E 11–5 1.5
CSEM V 24 18 15 08.3 44.92N 20.25E 11 1.5L **¶601258786**
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
SKO V 24 19 22 29.0 41.35N 22.49E 15 1.2L
¶602917397
ISC V 25 21 19 13.8–1.3 43.45N–.03 17.42E–.03 4–10 114 1-4
CSEM V 25 21 19 13.3–.26 43.48N 17.39E 2 2.8L **¶16553251**
PDG V 25 21 19 15.0–.22 43.40N 17.47E 2–0 2.8L
BEO V 25 21 19 16.2–.52 43.53N 17.55E 0 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=3.3km az=54.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=1.1km az=0.0.
BEO Event type ke.
ISC V 27 17 45 17.2–1.2 43.43N–.02 17.31E–.03 0–10 91 1-3
CSEM V 27 17 45 17.3–.28 43.42N 17.31E 2 2.6L **¶16553253**
PDG V 27 17 45 19.7–.26 43.37N 17.43E 6–0 2.6L
BEO V 27 17 45 19.1–.58 43.39N 17.37E 0 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=55.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.2km az=0.0.
BEO Event type ke.
BEO V 27 18 39 05.1–.41 41.80N 22.83E 0 1.4
SKO V 27 18 39 04.9 41.78N 22.91E 2 1.4 **¶601109176**
BEO Event type ke.
LJU V 31 12 53 13.0 45.35N 14.79E 10 1.0L
VIE V 31 12 53 12.9–.71 45.31N 14.79E 6 1.7L,1.4b **¶601124717**
CSEM V 31 12 53 12.8–.20 45.31N 14.79E 2 1.8L,1.4b
VIE Event type ke. Error ellipse: s-maj=4.9km s-min=2.2km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=90.0.
ISC V 31 23 13 56.1–.83 42.91N–.01 18.60E–.02 20–3 164 0-6
ISCJB V 31 23 13 55.9–.27 42.92N–.02 18.56E–.02 21–3 **¶16553272**
BEO V 31 23 13 55.4–.27 42.92N 18.58E 12–2 2.6
PDG V 31 23 13 55.3–.30 42.90N 18.61E 24–0 3.0,3.0L
CSEM V 31 23 13 56.5–.13 42.88N 18.63E 20–0 3.0L,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=10.1.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=1.0km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.7km az=63.0.
ISC VI 01 08 27 54.1–1.1 43.72N–.02 17.16E–.02 4–7 3.9b 435 1-125
THE VI 01 08 27 27.7 45.17N 15.71E 2–47 3.9b **¶16558663**
BEO VI 01 08 27 51.4–.62 43.68N 16.76E 9–4 3.6
IDC VI 01 08 27 53.6–.92 43.77N 17.19E 0 3.9,3.8
ROM VI 01 08 27 53.2–.19 43.69N 17.37E 10 3.7L,3.8
CSEM VI 01 08 27 54.2–.09 43.71N 17.17E 2 3.8L,3.8
PDG VI 01 08 27 54.0–.93 43.72N 17.21E 3–2 3.8,3.8L
MOS VI 01 08 27 55.0–.99 43.79N 17.16E 14 4.1b,3.8L
LDG VI 01 08 27 55.1–.10 43.76N 17.15E 10 3.8L,3.8L
PRU VI 01 08 27 56.0 43.77N 17.25E 0 3.8L,3.8L
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=63.1km s-min=51.5km az=328.0.
BEO Event type ke.
IDC Error ellipse: s-maj=17.8km s-min=10.8km az=46.0.
ROM Event type ke. Error ellipse: s-maj=4.2km s-min=1.6km az=94.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=39.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.0km az=0.0.
MOS Error ellipse: s-maj=7.2km s-min=4.2km az=101.0.
LDG Event type ke. Error ellipse: s-maj=3.1km s-min=2.6km az=24.0.
ISC VI 01 15 43 41.3–.91 43.15N–.02 18.72E–.02 9–7 86 0-3
PDG VI 01 15 43 40.8–.17 43.17N 18.75E 15–0 2.5,2.5L **¶16717024**
CSEM VI 01 15 43 41.0–.24 43.16N 18.73E 5 2.5L,2.5L
BEO VI 01 15 43 41.3–.44 43.15N 18.63E 0 2.4,2.5L
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.5km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.7km az=107.0.
BEO Event type ke.
LJU VI 02 12 24 45.4 46.11N 15.58E 4 0.5L
¶601124739
CSEM VI 02 17 28 26.3 45.72N 14.35E 0 0.7L
LJU VI 02 17 28 26.3 45.72N 14.35E 1 0.7L **¶601124743**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU VI 03 01 11 50.2 45.74N 15.69E 7 0.4L
CSEM VI 03 01 11 50.2 45.74N 15.69E 0 0.4L **¶601124747**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
SKO VI 03 15 40 17.4 41.65N 22.43E 8 1.0L,0.7
¶601109192
LJU VI 05 05 40 12.7 46.06N 15.67E 5 0.1L
CSEM VI 05 05 40 12.7 46.06N 15.67E 0 0.1L **¶601124758**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
LJU VI 08 15 00 25.4 46.39N 15.07E 0 3.0L
CSEM VI 08 15 00 25.4–99 46.39N 15.07E 0 3.0L **¶601124776**

LJU Rockburst.
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.
ISC VI 08 19 48 01.8–1.1 43.31N–.02 17.64E–.02 6–9 134 1-6
BEO VI 08 19 48 00.9–.57 43.29N 17.45E 0 2.7 ¶16580628
PDG VI 08 19 48 01.8–.10 43.31N 17.66E 2–0 2.9L
CSEM VI 08 19 48 02.2–.22 43.29N 17.64E 2 2.9L
ISC Event type ke.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.3km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=2.9km az=44.0.
LJU VI 09 10 00 44.6 46.39N 15.07E 0 0.9L
¶601124782
LJU Rockburst.
ISC VI 10 06 17 45.9–.79 45.84N–.02 14.94E–.01 12–5 114 0-3
ISCJB VI 10 06 17 45.3–.30 45.84N–.02 14.94E–.02 14–3 ¶16593355
IASPE VI 10 06 17 45.9–.80 45.84N–.02 14.94E–.01 12–5
CSEM VI 10 06 17 45.8–.09 45.83N 14.94E 10 2.5L
VIE VI 10 06 17 45.8–.43 45.87N 14.92E 12 2.6L,1.9b
LJU VI 10 06 17 45.5 45.83N 14.93E 14 2.5L,1.9b
PRU VI 10 06 17 50.5 46.06N 14.95E 7 2.5L,1.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=15.1.
IASPE Event type ke. Error ellipse: s-maj=2.7km s-min=2.1km az=176.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=8.0.
VIE Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=158.0.
ISC VI 11 06 40 46.0–1.0 43.24N–.02 21.62E–.02 7–9 62 0-2
CSEM VI 11 06 40 46.7–.19 43.25N 21.60E 2 2.5L ¶601258969
BEO VI 11 06 40 47.3–.26 43.23N 21.61E 0 2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=3.2km az=59.0.
BEO Event type ke.
LJU VI 13 20 02 51.8 45.92N 14.60E 8 0.9L
VIE VI 13 20 02 51.9–.22 45.91N 14.62E 6 1.1L ¶601124812
CSEM VI 13 20 02 52.0–.07 45.92N 14.59E 5 1.5L
VIE Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=122.0.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=20.0.
BEO VI 13 23 48 48.2–.33 44.21N 20.13E 4–3 1.4
CSEM VI 13 23 48 48.2 44.21N 20.13E 4 1.4L ¶601259000
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM VI 14 10 50 48.7–99 46.39N 15.07E 0
LJU VI 14 10 50 48.7 46.39N 15.07E 0 0.1L ¶601124819
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.
LJU Rockburst.
PDG VI 15 12 54 53.2–.05 42.46N 19.27E 22–0 1.8,1.7L
CSEM VI 15 12 54 53.2–.15 42.46N 19.28E 19–0 1.7L,1.7L ¶16714283
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.1km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.1km az=7.0.
ISC VI 15 21 07 26.8–.98 45.30N–.02 14.81E–.02 14–7 82 0-2
VIE VI 15 21 07 26.8–.97 45.31N 14.78E 8 2.1L,1.8b ¶601124829
CSEM VI 15 21 07 26.3–.17 45.27N 14.76E 5 2.5L,1.8b
LJU VI 15 21 07 26.0 45.31N 14.78E 23 1.6L,1.8b
ISC Event type ke.
VIE Event type ke. Error ellipse: s-maj=6.7km s-min=2.5km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=26.0.
CSEM VI 16 10 22 31.4 46.39N 15.07E 0
LJU VI 16 10 22 31.4 46.39N 15.07E 0 0.4L ¶601124844
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.
LJU Rockburst.
ISC VI 17 05 31 06.4–1.1 43.82N–.02 16.43E–.02 15–7 4.2b 534 1-71
PDG VI 17 05 31 04.9–.55 43.76N 16.55E 5–1 4.2,4.1L ¶16631889
LDG VI 17 05 31 04.9–.07 43.78N 16.51E 2 4.0L,4.1L
MOS VI 17 05 31 04.3–1.0 43.78N 16.42E 12 4.3b,4.1L
CSEM VI 17 05 31 05.4–.08 43.79N 16.51E 2 4.2L,4.1L
NEIC VI 17 05 31 06.4–.37 43.80N 16.45E 10 4.6b,4.2L
PRU VI 17 05 31 06.2 43.83N 16.76E 0 4.6,4.2L
BEO VI 17 05 31 06.3–.29 43.86N 16.53E 0 3.9,4.2L
IDC VI 17 05 31 09.6–1.2 43.86N 16.60E 40–12 3.8,3.8
ISC Event type fe.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=54.0.
MOS Error ellipse: s-maj=5.5km s-min=4.1km az=92.5.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=36.0.
NEIC Event type fe. Error ellipse: s-maj=5.7km s-min=5.1km az=63.0. Felt at Split.
BEO Event type ke.
IDC Error ellipse: s-maj=12.5km s-min=9.7km az=49.0.
LJU VI 17 05 40 24.3 46.39N 15.07E 0 3.5L
¶601124848
LJU Rockburst.
LJU VI 17 05 43 38.8 46.39N 15.07E 0 3.5L
¶601124849
LJU Rockburst.
ISC VI 17 06 16 17.9–1.2 43.85N–.03 16.53E–.02 4–10 133 1-3
PDG VI 17 06 16 15.6–.14 43.90N 16.14E 16–2 2.8L ¶16714287
ROM VI 17 06 16 17.0–.40 43.78N 16.76E 10 2.7L
BEO VI 17 06 16 18.2–.37 43.76N 16.53E 0 2.5
CSEM VI 17 06 16 18.5–.13 43.84N 16.53E 2 2.7L
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=2.0km s-min=3.8km az=0.0.
ROM Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=27.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=24.0.
LJU VI 20 06 04 06.4 45.84N 15.46E 8 0.4L
¶601124863
ISC VI 21 03 20 41.9–1.2 44.18N–.04 16.74E–.03 18–4 50 1-3
BEO VI 21 03 20 36.5–.96 44.12N 16.18E 0 2.6 ¶601259076
CSEM VI 21 03 20 40.6–.15 44.04N 16.73E 2 2.4L
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=2.6km az=38.0.
ISC VI 21 11 00 41.5–.93 42.30N–.02 19.50E–.02 10–7 94 0-4
PDG VI 21 11 00 40.5–.10 42.28N 19.47E 20–0 2.6,2.5L ¶16714292
ISCJB VI 21 11 00 41.3–.44 42.25N–.03 19.48E–.03 17–5 2.6,2.5L
CSEM VI 21 11 00 41.0–.18 42.29N 19.49E 10 2.5L,2.5L
BEO VI 21 11 00 42.0–.31 42.35N 19.58E 5–3 2.1,2.5L
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.7km az=169.4.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=177.0.
BEO Event type ke.
SKO VI 22 00 57 15.2 41.10N 21.21E 21 2.4L,2.3
¶601109211
CSEM VI 22 15 06 28.5–99 46.39N 15.07E 0
LJU VI 22 15 06 28.5 46.39N 15.07E 0 0.9L ¶601124891
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.
LJU Rockburst.
LJU VI 22 23 32 00.0 46.39N 15.07E 0 0.0L
¶601124901
LJU Rockburst.
CSEM VI 22 23 55 30.7–2.0 46.89N 14.78E 2 0.4L
LJU VI 22 23 55 30.7 46.39N 15.07E 0 0.0L ¶601124902
VIE VI 22 23 55 32.0–3.0 46.47N 15.08E 0 0.4L
CSEM Event type sr. Error ellipse: s-maj=32.3km s-min=19.5km az=172.0. Suspected Mining induced.

LJU Rockburst.
VIE Event type sr. Error ellipse: s-maj=17.5km s-min=3.2km az=137.0. Suspected Mining induced.
CSEM VI 23 23 03 21.7–99 46.39N 15.07E 0
LJU VI 23 23 03 21.7 46.39N 15.07E 0 0.4L ¶601124913
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.
LJU Rockburst.
ISC VI 26 22 54 32.4–1.0 45.16N–.04 14.75E–.06 9 13 0-1
¶603802220
ISC Event type ke.
LJU VI 28 07 08 31.6 46.39N 15.07E 0 0.0L
CSEM VI 28 07 08 31.6 46.39N 15.07E 0 0.0L ¶601124939
LJU Rockburst.
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.
LJU VI 28 07 25 58.8 46.39N 15.07E 0 0.0L
¶601124940
LJU Rockburst.
LJU VI 30 01 03 07.5 45.91N 15.20E 2 0.0L
CSEM VI 30 01 03 07.6 45.91N 15.20E 0 0.0L ¶601124957
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

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ISC II 13 16 57 32.7–2.1 35.90N–.08 8.76W–.06 26–13 237 1-10
MDD II 13 16 57 31.5–.71 35.67N 8.97W 30 3.0 ¶16022467
LDG II 13 16 57 32.2–.17 35.75N 8.92W 15 3.3L
IGIL II 13 16 57 32.2 35.67N 8.94W 31 2.7L
INMG II 13 16 57 32.7–1.1 35.68N 8.95W 31 2.7L
CSEM II 13 16 57 33.7–.28 35.93N 8.75W 20 3.5L
CNRM II 13 16 57 34.3 35.44N 8.78W 21 3.2
ISC Event type ke.
MDD Error ellipse: s-maj=8.5km s-min=5.2km az=83.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=39.0.
INMG Event type ke. Error ellipse: s-maj=4.5km s-min=2.3km az=77.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.2km az=42.0.
ISC II 15 00 26 29.3–1.4 35.95N–.04 8.60W–.04 32–11 390 1-14
MDD II 15 00 26 30.8–.59 35.87N 8.72W 30 3.5 ¶16024891
IGIL II 15 00 26 31.9 35.90N 8.67W 31 3.5L
SFS II 15 00 26 31.0 36.00N 8.40W 0 3.4L
INMG II 15 00 26 32.4–1.2 35.93N 8.66W 27–7 3.5L,2.8
LDG II 15 00 26 32.1–.23 35.92N 8.70W 30 4.0L,2.8
CNRM II 15 00 26 32.7 35.65N 8.67W 30 3.6,2.8
CSEM II 15 00 26 33.5–.25 36.11N 8.48W 30 4.5L,2.8
ISC Event type ke.
MDD Error ellipse: s-maj=6.2km s-min=3.8km az=59.0. PRXIMO.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=50.0.
LDG Event type ke. Error ellipse: s-maj=4.4km s-min=2.8km az=38.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=2.5km az=42.0.
ISC III 01 22 10 04.9–3.1 36.8N–.10 9.6W–.10 62–14 76 1-4
CSEM III 01 22 10 05.8–.38 36.84N 9.58W 30 3.7b ¶16630508
INMG III 01 22 10 05.8–1.1 36.73N 9.68W 31 1.6L
MDD III 01 22 10 05.3–1.7 36.75N 9.68W 43–32 3.7b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.1km az=64.0.
INMG Event type ke. Error ellipse: s-maj=8.7km s-min=5.7km az=64.0.
MDD Error ellipse: s-maj=14.6km s-min=13.8km az=88.0. PRXIMO.
ISC III 31 23 49 47.0–1.8 36.57N–.06 8.10W–.03 4–12 96 1-4
CSEM III 31 23 49 52.6–.42 36.62N 8.09W 30 1.3L ¶16401591
INMG III 31 23 49 53.6–1.4 36.59N 8.18W 23–6 1.3L
MDD III 31 23 49 53.0–1.1 36.56N 8.13W 42–24 3.7b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=4.9km az=21.0.
INMG Event type ke. Error ellipse: s-maj=8.6km s-min=6.8km az=153.0.
MDD Error ellipse: s-maj=10.4km s-min=6.7km az=12.0. PRXIMO.
ISC IV 20 03 40 00.4–1.7 36.55N–.06 9.67W–.06 10 343 1-12
MDD IV 20 03 40 00.4–.82 36.47N 9.82W 0 3.6 ¶16448738
SFS IV 20 03 40 02.0 36.43N 9.97W 48 4.2L
CNRM IV 20 03 40 02.6 36.21N 9.87W 30 3.6
LDG IV 20 03 40 03.1 36.43N 9.92W 30 3.6
INMG IV 20 03 40 03.2–1.7 36.50N 9.81W 12–5 3.4L,2.9
IGIL IV 20 03 40 03.1 36.40N 9.83W 22 3.4L,2.9
CSEM IV 20 03 40 05.0–.31 36.66N 9.59W 20 4.5L,2.9
ISC Event type ke.
MDD Error ellipse: s-maj=7.5km s-min=5.6km az=72.0. PRXIMO.
SFS Event type ke.
LDG Event type ke.
INMG Event type ke. Error ellipse: s-maj=5.7km s-min=2.3km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=49.0.
ISC IV 26 19 50 43.8–2.7 36.62N–.09 9.76W–.09 25–14 142 1-5
MDD IV 26 19 50 45.5–1.8 36.57N 9.83W 47–42 4.0b ¶16462186
CSEM IV 26 19 50 46.2–.35 36.73N 9.65W 20 3.2L
IGIL IV 26 19 50 46.3 36.57N 9.77W 29 1.9L
INMG IV 26 19 50 46.3–1.4 36.63N 9.73W 18–5 2.2,1.9L
ISC Event type ke.
MDD Error ellipse: s-maj=17.3km s-min=10.8km az=50.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=45.0.
INMG Event type ke. Error ellipse: s-maj=6.0km s-min=4.2km az=49.0.
ISC V 11 15 55 29.1–1.7 36.47N–.05 9.63W–.06 32–12 193 1-7
MDD V 11 15 55 30.7–1.0 36.44N 9.72W 44–41 4.1b ¶16505631
IGIL V 11 15 55 31.7 36.50N 9.59W 14 2.4L
CSEM V 11 15 55 32.0–.28 36.56N 9.53W 30 3.6L
INMG V 11 15 55 32.0–.87 36.52N 9.59W 18–3 2.6L
CNRM V 11 15 55 35.2 36.03N 9.75W 30 3.4
ISC Event type ke.
MDD Error ellipse: s-maj=10.1km s-min=6.7km az=83.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.9km az=68.0.
INMG Event type ke. Error ellipse: s-maj=3.4km s-min=2.2km az=58.0.
ISC V 11 20 14 51.0–3.3 36.8N–.10 9.8W–.20 9–14 68 1-4
MDD V 11 20 14 54.2–2.0 36.76N 9.93W 49–45 3.5b ¶16882095
CSEM V 11 20 14 55.0–.56 36.84N 9.79W 30 2.0L
INMG V 11 20 14 55.0–.95 36.74N 9.91W 31 1.6L
ISC Event type ke.
MDD Error ellipse: s-maj=19.7km s-min=16.4km az=62.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=7.9km az=69.0.
INMG Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=75.0.
ISC V 21 00 11 34.9–1.1 36.47N–.04 9.85W–.05 10 296 1-10
ISCJB V 21 00 11 35.6–.65 36.51N–.03 9.66W–.04 10 ¶16531580
IGIL V 21 00 11 36.7 36.28N 9.95W 28 2.8L
MDD V 21 00 11 36.6–1.1 36.46N 10.00W 20–25 3.1
CNRM V 21 00 11 36.3 36.20N 9.87W 30 3.4
INMG V 21 00 11 37.1–.91 36.29N 9.96W 31–15 3.0L,2.7
CSEM V 21 00 11 38.1–.23 36.49N 9.79W 30 3.1L,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.3km az=136.3.
MDD Error ellipse: s-maj=27.4km s-min=5.8km az=51.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=3.5km s-min=1.9km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=50.0.
ISC VI 16 05 01 46.7–2.6 36.75N–.10 9.72W–.09 10 91 1-4
MDD VI 16 05 01 49.4–1.6 36.72N 9.76W 44–37 3.7b ¶16716887
INMG VI 16 05 01 50.0–1.2 36.74N 9.67W 21–4 1.6L
CSEM VI 16 05 01 50.1–.37 36.81N 9.64W 30 1.6L
IGIL VI 16 05 01 50.0 36.75N 9.68W 19 1.5L
ISC Event type ke.
MDD Error ellipse: s-maj=15.0km s-min=14.0km az=172.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=6.0km s-min=5.6km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.2km az=22.0.
ISC VI 19 11 58 39.2–4.0 34.5N–.20 8.97W–.10 10 77 3-5
CNRM VI 19 11 58 34.6 34.33N 9.04W 10 3.1 ¶16632977
CSEM VI 19 11 58 37.9–.37 34.23N 8.94W 30 2.8L

MDD	VI	19 11 58 38.3–1.6	34.19N	9.08W	30–24	3.7b	
INMG	VI	19 11 58 41.0–1.0	34.26N	9.07W	31	2.0L	

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=4.7km az=82.0.
MDD Error ellipse: s-maj=17.4km s-min=5.4km az=80.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=8.5km s-min=5.3km az=89.0.

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MDD	**I**	**12 20 22 58.2–.85**	**36.98N**	**4.99W**	**11–2**	**1.3**		
CSEM	I	12 20 22 58.3–.22	37.01N	4.85W	5	1.8L		¶600888384

MDD Error ellipse: s-maj=6.4km s-min=5.7km az=102.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=3.6km az=5.0.

ISC	**I**	**24 14 36 51.8–1.7**	**36.01N–.07**	**7.35W–.03**	**16–10**		**184**	**1-8**
MDD	I	24 14 36 52.7–1.0	36.05N	7.36W	0	2.9		¶15963056
IGIL	I	24 14 36 52.9	35.81N	7.46W	30	2.6L		
SFS	I	24 14 36 53.0	36.07N	7.32W	0	2.9L		
INMG	I	24 14 36 53.5–1.4	35.88N	7.44W	20–11	2.6L		
CSEM	I	24 14 36 53.4–.32	36.12N	7.32W	10	3.5L		

ISC Event type ke.
MDD Error ellipse: s-maj=10.2km s-min=4.5km az=24.0. PRXIMO.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=9.7km s-min=2.9km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=2.9km az=25.0.

ISC	**II**	**09 11 37 18.5–.44**	**35.66N–.01**	**4.58W–.02**	**101–4**		**266**	**1-8**
ISCJB	II	09 11 37 19.4–.27	35.67N–.02	4.66W–.02	90–5			¶16014962
SFS	II	09 11 37 20.0	35.61N	4.57W	95	3.3L		
CSEM	II	09 11 37 20.8–.14	35.63N	4.58W	80	3.3b		
CNRM	II	09 11 37 21.2	35.42N	4.35W	3	3.3		
MDD	II	09 11 37 21.6–.44	35.66N	4.57W	87–7	3.6b		
LDG	II	09 11 37 22.0–.38	35.86N	4.45W	30	3.9L		
INMG	II	09 11 37 22.0–1.9	35.75N	4.52W	85–5	3.3L		
IGIL	II	09 11 37 22.3	35.84N	4.77W	0	3.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.8km az=153.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=3.2km az=128.0.
MDD Error ellipse: s-maj=3.8km s-min=3.6km az=26.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=9.9km s-min=5.4km az=9.0.
INMG Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=43.0.

MDD	**II**	**11 07 03 57.9–1.3**	**36.42N**	**5.86W**	**27–8**	**1.4**		
SFS	II	11 07 03 58.0	36.47N	6.09W	0	1.5L		¶601020700
CSEM	II	11 07 03 58.2–.57	36.56N	6.05W	5	1.4L		

MDD Error ellipse: s-maj=9.3km s-min=5.1km az=153.0. PRXIMO.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=9.5km az=41.0.

ISC	**II**	**18 01 10 08.9–.56**	**35.63N–.02**	**4.48W–.02**	**24–4**	**4.1b**	**535**	**1-152**
NEIC	II	18 01 10 07.0–.40	35.56N	4.50W	10	4.2b,4.1L		¶602001833
CSEM	II	18 01 10 07.9–.13	35.58N	4.50W	10	3.7,4.1L		
SFS	II	18 01 10 08.0	35.56N	4.55W	0	3.7L,4.1L		
MDD	II	18 01 10 09.7–.58	35.56N	4.52W	15–5	3.8,4.1L		
IGIL	II	18 01 10 09.0	35.56N	4.55W	2	3.8L,4.1L		
LDG	II	18 01 10 09.9–.54	35.86N	4.47W	2	4.1L,4.1L		
CNRM	II	18 01 10 10.0	34.56N	4.46W	18	3.7,4.1L		
IDC	II	18 01 10 10.3–.65	35.57N	4.48W	34–4	4.3L,3.8		
INMG	II	18 01 10 11.2–1.2	35.72N	4.65W	9–4	3.7L,3.6		

ISC Event type ke.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=5.3km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.7km az=145.0.
SFS Event type ke.
MDD Error ellipse: s-maj=3.3km s-min=3.1km az=138.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=11.8km s-min=5.8km az=172.0.
IDC Error ellipse: s-maj=16.7km s-min=10.6km az=97.0.
INMG Event type ke. Error ellipse: s-maj=6.1km s-min=2.5km az=172.0.

ISC	**III**	**01 10 26 24.3–.82**	**35.14N–.03**	**4.73W–.02**	**98–6**		**280**	**1-10**
ISCJB	III	01 10 26 24.8–.36	35.24N–.02	4.77W–.02	94–5			¶16168329
CSEM	III	01 10 26 25.8–.18	35.14N	4.69W	80	3.7b		
LDG	III	01 10 26 26.4–.45	35.33N	4.74W	81–6	3.7L		
SFS	III	01 10 26 26.0	35.10N	4.68W	77	3.7L		
MDD	III	01 10 26 26.4–.52	35.13N	4.69W	77–12	3.7b		
IGIL	III	01 10 26 26.9	35.11N	4.69W	77	3.0L		
INMG	III	01 10 26 27.3–1.7	35.22N	4.74W	39–14	3.2L		
CNRM	III	01 10 26 30.6	34.82N	4.92W	25	3.2		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=16.5.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=129.0.
LDG Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=1.0.
SFS Event type ke.
MDD Error ellipse: s-maj=4.4km s-min=4.0km az=74.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=5.0.

ISC	**III**	**01 18 22 43.3–1.5**	**36.67N–.06**	**7.51W–.02**	**9–10**		**101**	**1-5**
CSEM	III	01 18 22 45.0–.34	36.63N	7.52W	20	1.8L		¶16414895
INMG	III	01 18 22 45.9–1.2	36.60N	7.51W	15–4	1.8L		
IGIL	III	01 18 22 45.5	36.58N	7.51W	17	1.3L		
MDD	III	01 18 22 46.1–1.1	36.56N	7.56W	30–28	4.3b		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.8km az=20.0.
INMG Event type ke. Error ellipse: s-maj=6.2km s-min=2.6km az=53.0.
MDD Error ellipse: s-maj=14.7km s-min=6.0km az=15.0. PRXIMO.

ISC	**III**	**06 07 17 29.0–.84**	**36.61N–.04**	**7.63W–.03**	**10**		**368**	**1-11**
ISCJB	III	06 07 17 28.0–.35	36.61N–.02	7.60W–.02	10			¶16196708
IGIL	III	06 07 17 30.8	36.50N	7.71W	13	3.1L		
CNRM	III	06 07 17 30.6	36.46N	7.81W	30	3.4		
SFS	III	06 07 17 31.0	36.57N	7.73W	0	3.1L		
CSEM	III	06 07 17 31.9–.22	36.68N	7.59W	20	3.7L		
MDD	III	06 07 17 31.9–.72	36.56N	7.70W	24–7	3.1		
INMG	III	06 07 17 32.0–1.5	36.54N	7.73W	21–4	3.1L,3.0		
LDG	III	06 07 17 33.4–.44	36.83N	7.33W	20	3.5L,3.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=1.9km az=31.0.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.1km az=31.0.
MDD Error ellipse: s-maj=6.7km s-min=2.9km az=35.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=44.0.
LDG Event type ke. Error ellipse: s-maj=9.5km s-min=5.1km az=28.0.

ISC	**III**	**21 08 03 57.7–1.5**	**36.37N–.06**	**7.75W–.03**	**26–13**		**105**	**1-5**
CSEM	III	21 08 03 59.6–.30	36.40N	7.80W	60	3.9b		¶16406742
MDD	III	21 08 03 59.9–1.2	36.35N	7.84W	49–32	3.9b		
INMG	III	21 08 04 00.6–1.3	36.34N	7.84W	31	2.0L		
IGIL	III	21 08 04 01.7	36.46N	7.87W	31	2.0L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=3.3km az=21.0.
MDD Error ellipse: s-maj=13.6km s-min=6.5km az=12.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=34.0.

MDD	**IV**	**02 16 03 21.5–.50**	**36.51N**	**3.67W**	**0**	**2.0**		
CSEM	IV	02 16 03 20.6–.27	36.51N	3.67W	5	2.0L		¶601021024
SFS	IV	02 16 03 21.0	36.51N	3.67W	0	2.0L		

MDD Error ellipse: s-maj=4.3km s-min=3.7km az=17.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.9km az=4.0.
SFS Event type ke.

ISC	**IV**	**06 03 43 56.0–1.3**	**35.71N–.07**	**4.49W–.03**	**126–6**	**3.6b**	**316**	**1-67**
IDC	IV	06 03 43 52.4–1.0	35.57N	4.34W	97–12	3.5,3.3		¶16410401
IGIL	IV	06 03 43 53.9	35.55N	4.50W	1	3.3L,3.3		
MDD	IV	06 03 43 55.5–.88	35.53N	4.48W	112–7	2.9b,3.3		
INMG	IV	06 03 43 56.2–1.7	35.56N	4.46W	115–9	3.1L,3.3		
SFS	IV	06 03 43 56.0	35.54N	4.55W	57	4.1L,3.3		
ISCJB	IV	06 03 43 57.2–.48	35.88N–.03	4.54W–.02	134–3	3.3b,3.3		
LDG	IV	06 03 43 57.7–.36	35.86N	4.46W	100	2.8L,3.3		
CSEM	IV	06 03 43 58.3–.25	35.84N	4.54W	114–2	2.9b,3.3		

ISC Event type ke.
IDC Error ellipse: s-maj=30.7km s-min=8.7km az=94.0.
MDD Error ellipse: s-maj=9.0km s-min=4.4km az=173.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=5.2km s-min=3.5km az=168.0.
SFS Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.9km az=174.9.
LDG Event type ke. Error ellipse: s-maj=8.0km s-min=3.8km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=2.7km az=171.0.

ISC	**IV**	**19 04 14 35.2–.96**	**36.92N–.05**	**5.28W–.03**	**16–4**		**36**	**0-2**
ISCJB	IV	19 04 14 34.8–.64	37.04N–.04	5.32W–.05	13–5			¶16707359
CSEM	IV	19 04 14 35.4–.29	37.01N	5.29W	15	1.5L		
MDD	IV	19 04 14 36.7–.59	36.99N	5.26W	10–2	1.5		
SFS	IV	19 04 14 37.0	36.90N	5.20W	26	4.6L		
INMG	IV	19 04 14 37.4–1.6	37.02N	5.15W	0	1.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=5.8km az=148.1.
CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=5.0km az=11.0.
MDD Error ellipse: s-maj=6.2km s-min=4.3km az=3.0. PRXIMO.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=5.2km s-min=2.9km az=88.0.

MDD	**IV**	**29 08 45 40.9–2.1**	**35.30N**	**3.64W**	**0**	**2.1**		
CSEM	IV	29 08 45 40.9	35.30N	3.64W	0	2.1L		¶601021194

MDD Error ellipse: s-maj=19.5km s-min=8.4km az=163.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**V**	**04 20 20 54.4–1.2**	**35.39N–.03**	**4.05W–.02**	**4–9**	**3.4b**	**281**	**1-68**
IDC	V	04 20 20 54.6–1.2	35.30N	4.32W	0	3.4,3.4L		¶16495935
IGIL	V	04 20 20 54.7	35.29N	4.05W	0	2.4L,3.4L		
MDD	V	04 20 20 54.8–.34	35.34N	4.03W	0	2.5,3.4L		
SFS	V	04 20 20 54.0	35.29N	4.04W	0	2.6L,3.4L		
CSEM	V	04 20 20 55.4–.14	35.37N	4.14W	10	2.5L,3.4L		
CNRM	V	04 20 20 57.2	35.54N	4.26W	30	3.5,3.4L		
INMG	V	04 20 20 57.2–1.1	35.41N	4.18W	4–4	2.6L,3.4L		

ISC Event type ke.
IDC Error ellipse: s-maj=42.1km s-min=15.2km az=91.0.
MDD Error ellipse: s-maj=3.7km s-min=3.0km az=18.0. PRXIMO.
SFS Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.7km az=100.0.
INMG Event type ke. Error ellipse: s-maj=2.6km s-min=2.5km az=152.0.

ISC	**VI**	**18 22 46 10.0–.84**	**36.45N–.03**	**7.98W–.03**	**10**		**326**	**1-13**
SFS	VI	18 22 46 12.0	36.40N	8.06W	60	4.0L		¶16632953
CNRM	VI	18 22 46 13.2	36.16N	7.97W	11	3.3		
INMG	VI	18 22 46 13.6–1.4	36.48N	8.03W	15–3	3.0L,2.8		
LDG	VI	18 22 46 13.9–.30	36.64N	7.81W	70–3	3.4L,2.8		
IGIL	VI	18 22 46 13.4	36.46N	8.05W	14	3.0L,2.8		
MDD	VI	18 22 46 13.2–.90	36.44N	7.99W	26–11	2.9,2.8		
CSEM	VI	18 22 46 14.7–.22	36.58N	7.88W	60	3.9L,2.8		

ISC Event type ke.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=4.3km s-min=2.4km az=49.0.
LDG Event type ke. Error ellipse: s-maj=6.6km s-min=3.3km az=35.0.
MDD Error ellipse: s-maj=9.1km s-min=3.7km az=31.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.3km az=32.0.

(387) Western Mediterranean Sea.

ISC	**I**	**03 19 02 02.2–1.8**	**39.41N–.09**	**6.20E–.06**	**10**		**80**	**3-8**
LDG	I	03 19 02 05.9–.24	39.35N	6.27E	20	3.1L		¶15902938
CSEM	I	03 19 02 06.0–.32	39.50N	6.09E	20	4.2b		

ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=5.4km s-min=2.5km az=147.0.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=3.7km az=145.0.

ISC	**IV**	**02 13 29 13.1–.90**	**37.07N–.05**	**2.82E–.05**	**12**		**39**	**0-5**
ISCJB	IV	02 13 29 12.9–.60	37.09N–.04	2.75E–.06	12			¶16403926
CSEM	IV	02 13 29 13.6–.30	37.01N	2.78E	10	3.7b		
MDD	IV	02 13 29 13.8–.54	37.06N	2.82E	0	3.7b		
CRAAG	IV	02 13 29 14.0	36.92N	2.82E		3.0L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.0km az=144.7.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=6.0km az=56.0.
MDD Error ellipse: s-maj=12.3km s-min=4.6km az=60.0. PRXIMO.

ISC	**IV**	**13 18 36 48.7–.77**	**37.11N–.03**	**3.68E–.04**	**10**		**172**	**1-8**
ISCJB	IV	13 18 36 48.0–.53	37.17N–.03	3.64E–.04	10			¶16424731
CSEM	IV	13 18 36 48.5–.47	36.91N	3.83E	5	3.9L		
MDD	IV	13 18 36 49.7–.79	36.96N	3.75E	0	4.1b		
CRAAG	IV	13 18 36 49.4	36.85N	3.65E		3.9L		
LDG	IV	13 18 36 54.9–.27	37.41N	3.27E	2	2.9L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.5km az=20.4.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=5.8km az=123.0.
MDD Error ellipse: s-maj=10.3km s-min=5.1km az=108.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=5.4km s-min=3.3km az=153.0.

ISC	**IV**	**23 21 54 58.8–.49**	**37.13N–.02**	**3.77E–.02**	**12**		**117**	**1-8**
CRAAG	IV	23 21 54 58.2	36.85N	3.76E		3.5L		¶16452977
MDD	IV	23 21 54 59.8–.48	37.02N	3.75E	0	3.9b		
ISCJB	IV	23 21 55 00.1–.56	37.23N–.03	3.60E–.04	12	3.9b		
CSEM	IV	23 21 55 02.8–.31	37.10N	3.67E	30	3.5L		
LDG	IV	23 21 55 03.1–.94	37.09N	3.46E	30	3.0L		

ISC Event type ke.
MDD Error ellipse: s-maj=5.8km s-min=5.0km az=85.0. PRXIMO.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.2km az=9.9.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=6.0km az=112.0.
LDG Event type ke. Error ellipse: s-maj=19.1km s-min=11.0km az=159.0.

(389) Tyrrhenian Sea.

ISC	**II**	**15 00 56 53.5–.52**	**39.75N–.06**	**14.82E–.05**	**319–5**	**3.5b**	**292**	**1-91**
ROM	II	15 00 56 49.9–.40	39.59N	15.04E	348–5	3.5L		¶16024893
ISCJB	II	15 00 56 52.9–.21	39.67N–.03	14.78E–.03	329–2	3.4b		
LDG	II	15 00 56 52.0–.15	39.61N	14.48E	323	2.8L		
CSEM	II	15 00 56 53.7–.19	39.66N	14.87E	325–2	3.7L		
IDC	II	15 00 56 54.3–.53	39.77N	14.73E	330–7	3.9,3.3		
THE	II	15 00 56 57.7	39.58N	15.55E	297–1	3.9,3.3		

ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=6.3km s-min=4.1km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=27.3.
LDG Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.0km az=7.0.
IDC Error ellipse: s-maj=9.2km s-min=8.6km az=50.0.
THE Event type ke. Error ellipse: s-maj=5.5km s-min=1.7km az=267.0.

ISC	**V**	**19 14 50 53.6–.40**	**39.18N–.03**	**15.00E–.03**	**282–3**	**4.7b**	**1722**	**0-127**
ROM	V	19 14 50 51.5–.15	39.07N	15.13E	298–2	4.6L		¶16529266
PDG	V	19 14 50 51.2–.57	39.25N	15.01E	292–2	4.2L		
LDG	V	19 14 50 53.1–.14	39.20N	14.99E	280	3.0s		
CRAAG	V	19 14 50 53.0	39.05N	15.18E		4.7L		
CSEM	V	19 14 50 53.8–.06	39.29N	14.92E	273	5.0L,4.6b		
MOS	V	19 14 50 53.6–1.1	39.18N	14.95E	293	4.7b,4.6b		
ISCJB	V	19 14 50 53.4–.08	39.16N–.01	14.96E–.01	289–0	4.6b,4.6b		
NEIC	V	19 14 50 54.0–.24	39.21N	14.96E	292–2	4.8b,4.7W		
IDC	V	19 14 50 54.6–.65	39.22N	14.86E	290–6	4.9,4.4		

ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=106.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.0km az=0.0.
LDG Event type ke. Error ellipse: s-maj=6.4km s-min=3.8km az=55.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=11.0.
MOS Error ellipse: s-maj=4.6km s-min=2.9km az=71.4.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=10.9.
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.3km az=200.0.
IDC Error ellipse: s-maj=7.2km s-min=6.7km az=131.0.

ISC	**VI**	**22 19 48 24.9–.52**	**39.90N–.05**	**14.87E–.05**	**321–5**	**3.5b**	**277**	**0-84**
ROM	VI	22 19 48 21.8–.24	39.83N	15.07E	342–3	3.5L		¶16645782
CSEM	VI	22 19 48 23.0–.29	39.90N	15.09E	344–3	3.7L		
ISCJB	VI	22 19 48 24.4–.21	39.87N–.02	14.84E–.03	326–2	3.4b		
LDG	VI	22 19 48 24.8–.11	39.86N	14.81E	322	3.4b		
IDC	VI	22 19 48 25.7–.89	39.98N	14.77E	331–11	3.8,3.2		

ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=4.7km s-min=2.4km az=94.0.

CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=5.9km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.7km az=168.5.
LDG Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=9.0.
IDC Error ellipse: s-maj=11.6km s-min=10.3km az=23.0.

(390) Southern Italy.

ROM I 09 08 03 50.5–.14 41.84N 13.80E 4–5 1.5,0.7L ¶600305158
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=0.5km az=50.0.
ROM I 10 12 46 15.4–.14 40.84N 16.39E 11 2.2,1.8L
CSEM I 10 12 46 03.5–1.7 41.37N 17.20E 10 2.2,1.8L **¶16868916**
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.6km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=59.0km s-min=25.2km az=152.0.
ISC I 14 02 55 32.3–.90 39.01N–.04 15.87E–.05 117–6 3.6b 101 0-48
IDC I 14 02 55 24.1–1.3 39.53N 16.12E 0 3.7b,3.6 **¶15925986**
ISCJB I 14 02 55 31.9–.41 39.07N–.04 15.90E–.07 120–4 3.6b,3.6
PDG I 14 02 55 32.9–.38 39.01N 16.06E 112–4 3.5L,3.6
CSEM I 14 02 55 33.9–.18 39.04N 15.98E 100 3.7L,3.6
ROM I 14 02 55 33.1–.19 38.99N 15.76E 111–3 3.7L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=45.0km s-min=19.1km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=3.9km az=32.4.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=2.2km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=8.2km s-min=3.9km az=122.0.
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.6km az=113.0.
ROM I 21 13 24 22.2–.44 38.61N 17.98E 10 2.6,2.5L
CSEM I 21 13 24 20.6–.74 38.61N 18.01E 19 2.6,2.5L **¶600305881**
ROM Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=14.6km s-min=8.0km az=157.0.
ISC I 27 04 06 53.6–.98 41.47N–.02 16.10E–.02 19–2 129 0-6
ROM I 27 04 06 52.5–.12 41.46N 16.12E 2 2.8L,2.8 **¶600306310**
ISCJB I 27 04 06 53.4–.28 41.50N–.02 16.13E–.03 24–3 2.8L,2.8
CSEM I 27 04 06 53.6–.11 41.46N 16.09E 20 3.7L,2.8
ATH I 27 04 07 38.5 39.60N 19.57E 33–5 3.2,2.8
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.8km az=62.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=150.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=78.0.
ATH Error ellipse: s-maj=8.3km s-min=2.8km az=-1.0.
ROM I 29 08 03 07.2–.24 39.90N 15.82E 10–1 1.9,1.8L
CSEM I 29 08 03 07.2 39.90N 15.82E 10 1.9,1.8L **¶600306397**
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=17.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 01 07 20 26.9–.08 39.92N 16.18E 5 1.8,1.4L
CSEM II 01 07 20 26.9 39.92N 16.18E 5 1.8,1.4L **¶600311297**
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 10 06 49 00.9–.20 39.88N 16.00E 7–1 2.2,1.8L
CSEM II 10 06 49 00.9 39.88N 16.00E 7 2.2,1.8L **¶16018378**
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 17 07 53 22.7–.19 39.84N 16.08E 8 1.9,1.8L
CSEM II 17 07 53 22.7 39.84N 16.08E 8 1.9,1.8L **¶16029836**
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 17 07 54 13.6–.17 39.84N 16.08E 7–2 2.1L,2.0
CSEM II 17 07 54 13.6 39.84N 16.08E 7 2.0,2.0 **¶602892332**
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.6km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 25 19 22 55.0–.20 40.59N 15.56E 9–0 1.6,1.2L
CSEM II 25 19 22 55.0 40.59N 15.56E 9 1.6,1.2L **¶600314346**
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 05 18 44 40.8–.85 41.63N–.02 15.66E–.02 28–5 174 0-5
CSEM III 05 18 44 40.7–.08 41.64N 15.65E 20 3.7L **¶16196388**
ISCJB III 05 18 44 40.5–.23 41.68N–.02 15.67E–.02 28–2 3.7L
ROM III 05 18 44 40.7–.08 41.62N 15.65E 25–1 2.8L,2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.5km az=154.2.
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=1.1km az=35.0.
ISC III 08 06 47 56.4–.87 41.81N–.02 15.90E–.02 26–4 121 0-7
ROM III 08 06 47 55.7–.22 41.82N 15.93E 28–1 3.2L **¶16268372**
ISCJB III 08 06 47 55.7–.34 41.87N–.02 15.90E–.03 28–3 3.2L
CSEM III 08 06 47 56.5–.12 41.80N 15.89E 27–1 3.8L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.8km s-min=2.3km az=41.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=75.0.
ISC III 08 19 11 23.0–1.1 41.72N–.03 15.56E–.02 16–9 49 0-3
ROM III 08 19 11 22.3–.15 41.75N 15.58E 23–2 2.1L,2.0 **¶16269133**
CSEM III 08 19 11 23.2–.22 41.69N 15.55E 15 2.9L,2.0
ISCJB III 08 19 11 23.2–.46 41.75N–.03 15.56E–.03 18–6 2.9L,2.0
ISC Event type ke.
ROM Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ROM III 12 00 01 51.1–.18 40.39N 16.24E 28–2 1.7,1.3L
CSEM III 12 00 01 51.1 40.39N 16.24E 28 1.7,1.3L **¶600314851**
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=115.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 14 17 40 12.7–.80 41.18N–.02 14.75E–.02 11–5 84 0-3
IASPE III 14 17 40 12.8–.82 41.18N–.02 14.75E–.02 10–5 **¶16314304**
CSEM III 14 17 40 12.5–.13 41.18N 14.73E 12 2.7L
ROM III 14 17 40 12.3–.10 41.18N 14.74E 8–1 2.5,2.2L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=50.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=40.0.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=38.0.
ROM III 18 07 10 50.6–.19 40.91N 16.65E 6–2 1.9,1.4L
CSEM III 18 07 10 50.6 40.91N 16.65E 6 1.9,1.4L **¶600315053**
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 25 16 18 13.0–1.1 38.87N–.03 16.91E–.04 13–7 3.6b 84 0-62
ROM III 25 16 18 11.8–.30 38.87N 16.95E 2–2 3.5L **¶16359894**
IDC III 25 16 18 11.8–1.2 38.87N 16.95E 0 3.6b,3.5
CSEM III 25 16 18 11.3–.37 38.84N 17.00E 5 4.3L,3.5
ISCJB III 25 16 18 12.6–.83 38.87N–.03 17.02E–.06 17–7 3.9s,3.5b
ISC Event type ke.
ROM Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC III 25 18 31 32.8–.96 38.91N–.02 16.93E–.03 16–6 4.0b,3.6s 204 0-92
IDC III 25 18 31 30.9–.81 38.95N 16.88E 0 3.8,3.8b **¶16445500**
ROM III 25 18 31 31.5–.18 38.87N 16.97E 1 3.8L,3.8b
PDG III 25 18 31 32.1–.17 38.99N 17.08E 10–1 3.6L,3.8b
CSEM III 25 18 31 32.9–.18 38.88N 16.97E 20 4.5L,3.8b
ISCJB III 25 18 31 32.3–.51 38.92N–.02 17.06E–.04 21–4 3.8b,3.6s
TIR III 25 18 32 06.2 40.34N 19.07E 37 2.0L,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=15.6km s-min=13.5km az=147.0.
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.2km az=109.0.
PDG Event type ke. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=2.3km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=2.7km az=33.5.
ROM IV 02 16 25 37.9–.11 39.90N 16.00E 8–0 1.6L
CSEM IV 02 16 25 37.9 39.90N 16.00E 8 1.6L **¶603458267**
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 02 16 25 46.1–.91 39.89N–.04 15.98E–.03 8–5 47 0-3
ISCJB IV 02 16 25 45.6–.78 39.86N–.05 15.98E–.04 9–4 **¶602212473**
ROM IV 02 16 25 45.6–.13 39.90N 15.99E 8–1 2.7L
CSEM IV 02 16 25 46.0–.27 39.87N 15.97E 8 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=4.5km az=28.5.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=27.0.
ISC IV 04 13 11 51.6–.86 41.67N–.02 14.88E–.02 23–5 112 0-6
IASPE IV 04 13 11 51.5–.92 41.69N–.02 14.89E–.02 24–5 **¶16407602**
ISCJB IV 04 13 11 51.7–.23 41.69N–.02 14.87E–.03 24–3
CSEM IV 04 13 11 51.9–.12 41.64N 14.85E 20 3.6L
ROM IV 04 13 11 51.0–.11 41.69N 14.90E 26–2 3.4L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=26.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.9km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=13.0.
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.3km az=37.0.
ISC IV 12 03 32 56.3–.67 41.59N–.02 15.89E–.02 13–4 3.7b 527 0-90
LDG IV 12 03 32 55.9–.05 41.60N 15.98E 10 3.9L **¶17208877**
IDC IV 12 03 32 55.6–.85 41.74N 16.01E 0 3.9,3.8b
CSEM IV 12 03 32 55.7–.08 41.58N 15.82E 10 4.2L,3.8b
ROM IV 12 03 32 55.7–.14 41.59N 16.01E 7–1 3.9L,3.8b
NEIC IV 12 03 32 55.0 41.66N 16.12E 10 3.9L,3.8b
PDG IV 12 03 32 56.2–.59 41.62N 16.01E 10–0 3.7L,3.8b
ISCJB IV 12 03 32 56.5–.22 41.62N–.01 15.95E–.01 18–2 3.7b,3.8b
PRU IV 12 03 32 58.4 41.62N 16.27E 19 3.7b,3.8b
ISC Event type fe.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=20.0.
IDC Error ellipse: s-maj=15.1km s-min=12.4km az=57.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=21.0.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=39.0.
NEIC Event type fe. Felt [IV] at Manfredonia and Monte Sant'Angelo. Felt widely in northern Puglia. After ROM.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.7km az=32.7.
ROM IV 17 20 56 18.8–.22 40.34N 15.78E 9–1 0.8L
CSEM IV 17 20 56 18.8 40.34N 15.78E 9 0.8L **¶600316613**
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 23 03 03 44.7–.75 41.87N–.02 13.63E–.02 8–4 133 0-6
IASPE IV 23 03 03 44.3–.86 41.88N–.02 13.64E–.02 6–5 **¶16452506**
ISCJB IV 23 03 03 44.5–.23 41.90N–.02 13.65E–.02 5–3
ROM IV 23 03 03 44.3–.06 41.88N 13.65E 8–0 3.0,2.7L
CSEM IV 23 03 03 44.8–.11 41.89N 13.63E 2 3.3L,2.7L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=47.2. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=135.4.
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.1km az=39.0.
ISC IV 26 21 38 49.7–1.1 41.39N–.02 15.90E–.02 16–9 83 0-3
CSEM IV 26 21 38 49.8–.14 41.38N 15.88E 19–0 2.3 **¶16463253**
ROM IV 26 21 38 49.3–.09 41.38N 15.89E 4 2.3,2.1L
ISCJB IV 26 21 38 50.2–.32 41.40N–.02 15.89E–.03 25–4 2.3,2.1L
ISC Event type ke.
CSEM Event type ke.
ROM Event type ke.
ISCJB Event type ke.
ISC IV 28 03 14 03.6–1.2 38.92N–.02 16.10E–.03 57–6 139 0-7
ISCJB IV 28 03 14 03.0–.42 38.92N–.02 16.09E–.04 63–5 **¶16872964**
CSEM IV 28 03 14 03.8–.13 38.91N 16.09E 54–3 4.0L
ROM IV 28 03 14 03.7–.08 38.93N 16.05E 49–2 3.2L
BEO IV 28 03 14 05.6–1.3 38.87N 16.91E 0 3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.0km az=32.9.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=1.9km az=122.0.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=112.0.
BEO Event type ke.
ROM IV 28 23 28 44.7–.17 41.68N 13.87E 10–1 1.9,0.9L ¶600317229
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=125.0.
ISC IV 30 17 18 49.4–.83 41.78N–.02 15.85E–.02 26–4 115 0-20
ISCJB IV 30 17 18 48.7–.31 41.83N–.02 15.87E–.03 27–3 **¶16485484**
CSEM IV 30 17 18 49.0–.11 41.80N 15.86E 20 3.0L
ROM IV 30 17 18 49.1–.16 41.77N 15.85E 26–1 3.0L,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=156.2.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=79.0.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=59.0.
ISC V 01 15 46 58.7–1.3 41.97N–.05 15.32E–.03 17–10 24 0-2
ROM V 01 15 46 59.7–.29 41.92N 15.31E 10 2.1L,2.0 **¶16485966**
CSEM V 01 15 47 00.2–.33 41.88N 15.25E 2 2.8L,2.0
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=4.3km s-min=2.2km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.0km az=3.0.
ROM V 05 03 34 03.7–.08 41.75N 13.72E 12–1 2.3,2.1L
CSEM V 05 03 34 03.7 41.75N 13.72E 12 2.3,2.1L **¶603742742**
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=22.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 05 03 34 53.6–.12 41.76N 13.73E 11–1 1.4
CSEM V 05 03 34 53.6 41.76N 13.73E 11 1.4 **¶602385350**
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=76.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 08 21 16 09.8–.22 41.76N 13.75E 13–2 1.8,1.2L
CSEM V 08 21 16 09.8 41.76N 13.75E 13 1.8,1.2L **¶603793177**
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 11 01 30 55.5–1.2 39.14N–.02 16.09E–.03 78–5 182 0-7
ISCJB V 11 01 30 54.5–.36 39.16N–.02 16.12E–.03 86–4 **¶16503612**
PDG V 11 01 30 55.6–.65 39.18N 16.18E 70–3 3.6L
CSEM V 11 01 30 56.7–.12 39.17N 16.11E 60 4.0L
ROM V 11 01 30 57.3–.11 39.13N 16.00E 55–2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.8km az=23.9.
PDG Event type ke. Error ellipse: s-maj=1.2km s-min=2.1km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.6km az=114.0.
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=101.0.
ROM V 11 09 38 56.9–.11 41.75N 13.74E 13–2 1.9,1.3L
CSEM V 11 09 38 56.9 41.75N 13.74E 13 1.9,1.3L **¶601644037**
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=52.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 11 19 13 42.2–.09 41.75N 13.72E 11 2.1L
CSEM V 11 19 13 42.2 41.75N 13.72E 11 2.1L **¶602385508**
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=0.2km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 11 19 14 04.8–.07 41.76N 13.72E 11–0 2.1L,2.0
CSEM V 11 19 14 04.8 41.76N 13.72E 11 2.0,2.0 **¶603793178**
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=39.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 14 08 16 07.8–.07 41.76N 13.73E 12–1 1.8,1.0L
CSEM V 14 08 16 07.8 41.76N 13.73E 12 1.8,1.0L **¶601644235**
ROM Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 15 12 28 17.2–.49 40.76N 16.27E 8–5 1.8,1.3L

CSEM V 15 12 28 17.2 40.76N 16.27E 8 1.8,1.3L ¶601644301
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 18 19 08 22.5–.11 41.76N 13.72E 12–1 2.0,1.3L
CSEM V 18 19 08 22.5 41.76N 13.72E 12 2.0,1.3L ¶601644420
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 20 03 29 26.7–.09 40.70N 15.45E 6–1 2.8,2.1L
CSEM V 20 03 29 26.7 40.70N 15.45E 6 2.8,2.1L ¶602385867
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.3km az=150.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 20 03 29 29.1–.19 41.76N 13.74E 11–4 1.9,1.1L
CSEM V 20 03 29 29.1 41.76N 13.74E 11 1.9,1.1L ¶603793184
ROM Event type ke. Error ellipse: s-maj=9.7km s-min=1.9km az=68.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 21 18 39 00.7–.11 41.75N 13.73E 13–1 1.5,1.0L
¶601644557
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=27.0.
ROM V 22 10 28 15.5–.09 41.56N 14.27E 13–1 1.8,1.1L
CSEM V 22 10 28 15.5 41.56N 14.27E 13 1.8,1.1L ¶601644628
ROM Event type ke. Error ellipse: s-maj=0.8km s-min=0.4km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 26 04 14 38.6–.10 40.45N 15.76E 11–1 1.9,1.3L
CSEM V 26 04 14 38.6 40.45N 15.76E 11 1.9,1.3L ¶601645094
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 27 13 13 35.3–.09 41.63N 14.35E 13–1 1.5,1.3L
¶601645680
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=0.3km az=65.0.
ISC V 27 21 24 32.7–.98 41.79N–.04 15.83E–.03 28–4 70 0-3
ISCJB V 27 21 24 32.6–.55 41.82N–.03 15.82E–.05 28–3 ¶16601785
ROM V 27 21 24 32.3–.21 41.79N 15.85E 29–1 2.3L
CSEM V 27 21 24 33.1–.25 41.77N 15.81E 27–1 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.8km az=45.0.
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=50.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=4.0km az=29.0.
ROM V 28 00 33 56.8–.19 41.60N 15.74E 10–7 2.3,1.7L
CSEM V 28 00 33 56.8 41.60N 15.74E 10 2.3,1.7L ¶601645695
ROM Event type ke. Error ellipse: s-maj=7.1km s-min=2.4km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 03 21 56 00.4–.12 40.62N 15.49E 7–1 2.6L
CSEM VI 03 21 56 01.0–.15 40.61N 15.50E 10 3.0L ¶16556893
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=98.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.5km az=54.0.
ISC VI 04 23 33 48.9–1.0 41.27N–.02 15.92E–.02 18–5 160 0-3
ROM VI 04 23 33 49.1–.12 41.25N 15.89E 6–1 2.9,2.6L ¶16557184
CSEM VI 04 23 33 49.2–.13 41.27N 15.88E 5 3.5L,2.6L
ISCJB VI 04 23 33 50.1–.25 41.27N–.02 15.90E–.02 19–4 3.5L,2.6L
ISC Event type ke.
ROM Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ROM VI 07 08 59 02.6–.18 40.68N 16.67E 5 1.9,1.8L
CSEM VI 07 08 59 02.6 40.68N 16.67E 5 1.9,1.8L ¶601653535
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=56.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 09 00 21 23.9–.10 40.30N 16.00E 10–1 2.4,2.2L
CSEM VI 09 00 21 23.6–.12 40.28N 16.00E 20 2.9L,2.2L ¶601653817
ROM Event type ke. Error ellipse: s-maj=1.3km s-min=1.1km az=19.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=147.0.
ISC VI 11 20 44 23.4–.87 41.72N–.03 15.95E–.02 18–2 183 0-3
ISCJB VI 11 20 44 23.3–.39 41.75N–.02 15.96E–.02 20–2 ¶16591637
ROM VI 11 20 44 23.3–.09 41.71N 15.94E 19–0 2.7L,2.6
CSEM VI 11 20 44 23.1–.13 41.74N 15.95E 20 3.6L,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.2km az=36.8.
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=41.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.4km az=39.0.
ISC VI 12 12 20 11.1–.70 39.52N–.08 15.16E–.06 285–8 89 1-48
ISCJB VI 12 12 20 10.8–.47 39.48N–.06 15.13E–.06 293–5 3.3b ¶16591659
CSEM VI 12 12 20 10.8–.13 39.45N 15.24E 300 3.4L
ROM VI 12 12 20 10.1–.36 39.38N 15.25E 299–6 3.1L
LDG VI 12 12 20 10.5–.34 39.46N 15.08E 295 3.4L
IDC VI 12 12 20 14.9–1.1 39.67N 14.88E 329–19 3.5,3.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=7.1km az=18.1.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.4km az=42.0.
ROM Event type ke. Error ellipse: s-maj=9.9km s-min=4.2km az=101.0.
LDG Event type ke. Error ellipse: s-maj=13.3km s-min=7.7km az=22.0.
IDC Error ellipse: s-maj=23.2km s-min=19.2km az=18.0.
ROM VI 15 19 02 59.8–.64 41.81N 15.44E 8–4 2.2,1.5L
CSEM VI 15 19 02 59.8 41.81N 15.44E 8 2.2,1.5L ¶601654299
ROM Event type ke. Error ellipse: s-maj=14.7km s-min=3.7km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 18 16 14 16.7–.73 39.07N–.07 15.34E–.08 264–6 3.4b 102 1-71
ISCJB VI 18 16 14 16.6–.45 39.03N–.05 15.49E–.10 271–4 3.4b ¶16631908
CSEM VI 18 16 14 16.8 38.97N 15.42E 266 3.2L
ROM VI 18 16 14 16.8–.27 38.97N 15.42E 266–4 3.2L
IDC VI 18 16 14 17.1–.62 39.21N 15.06E 267–15 3.6,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=7.8km az=12.9.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM Event type ke. Error ellipse: s-maj=5.1km s-min=2.7km az=110.0.
IDC Error ellipse: s-maj=25.3km s-min=17.2km az=46.0.
ROM VI 22 23 40 09.6–.40 39.04N 15.52E 273–5 2.6L
CSEM VI 22 23 40 09.6 39.04N 15.52E 273 2.6L ¶601654774
ROM Event type ke. Error ellipse: s-maj=18.0km s-min=5.4km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 22 53 07.6–.35 39.45N 16.82E 28–3 2.1,1.3L
CSEM VI 29 22 53 07.6 39.45N 16.82E 28 2.1,1.3L ¶601655338
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=84.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

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ISC I 02 03 01 03.0–.70 41.94N–.02 20.47E–.02 10 170 1-9
TIR I 02 03 00 58.1–2.9 41.98N 20.42E 5–13 3.3L ¶16017921
THE I 02 03 01 01.6 42.10N 20.49E 1–4 2.8L
PDG I 02 03 01 01.4–.55 41.89N 20.39E 4–1 2.8,2.8L
CSEM I 02 03 01 02.7–.21 41.92N 20.49E 5 3.0L,2.8L
SKO I 02 03 01 02.5 41.84N 20.54E 7 2.7L,2.3
BEO I 02 03 01 02.6–.27 41.90N 20.45E 0 2.7L,2.3
ISCJB I 02 03 01 02.6–.28 41.93N–.02 20.48E–.02 10 2.7L,2.3
ISC Event type ke.
THE Event type ke.
PDG Event type ke.
CSEM Event type ke.
BEO Event type ke.
ISCJB Event type ke.
ISC I 02 23 19 32.5–.92 41.77N–.02 19.72E–.02 16–7 305 0-7
ROM I 02 23 19 19.4–.07 41.77N 20.93E 10 3.5L ¶16017924
ISCJB I 02 23 19 32.8–.32 41.76N–.01 19.65E–.02 26–3 3.5L
BEO I 02 23 19 32.8–.28 41.81N 19.89E 6–2 2.8
CSEM I 02 23 19 33.6–.08 41.78N 19.67E 20 3.4L
THE I 02 23 19 33.1 41.89N 19.92E 0–3 2.8L
PDG I 02 23 19 34.2–.13 41.88N 19.68E 11–0 3.1,3.0L
ATH I 02 23 19 36.0 41.63N 20.01E 30–7 3.6,3.0L
ISC Event type ke.
ROM Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=148.7.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=48.0.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=1.0km az=13.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.4km az=90.0.
ATH Error ellipse: s-maj=5.1km s-min=4.4km az=-1.0.
THE I 05 17 56 06.3 40.27N 19.81E 0–4 2.0L
CSEM I 05 17 55 56.0–.94 40.56N 19.13E 10 3.1 ¶16868204
ATH I 05 17 56 06.6 40.24N 19.95E 21–1 3.1
THE Event type ke. Error ellipse: s-maj=6.5km s-min=1.6km az=308.0.
CSEM Event type ke. Error ellipse: s-maj=29.9km s-min=8.2km az=78.0.
ATH Error ellipse: s-maj=1.3km s-min=1.3km az=-1.0.
ISC I 05 19 25 45.9–1.1 40.08N–.02 19.83E–.02 8–9 164 0-6
TIR I 05 19 25 44.8 39.97N 20.03E 25 3.3L ¶16868205
ATH I 05 19 25 44.1 40.14N 19.77E 15–1 3.3
ISCJB I 05 19 25 44.6–.58 40.10N–.02 19.81E–.03 1–4 3.3
CSEM I 05 19 25 45.6–.13 40.10N 19.83E 2 2.9L
THE I 05 19 25 46.0 40.06N 19.78E 0–1 2.7L
ROM I 05 19 25 46.0–.30 40.04N 19.89E 10 2.9L
ISC Event type ke.
ATH Error ellipse: s-maj=1.3km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.0km az=42.4.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=48.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=248.0.
ROM Event type ke. Error ellipse: s-maj=4.2km s-min=2.4km az=77.0.
ISC I 06 16 06 23.7–1.1 41.84N–.02 20.15E–.02 2–10 93 1-3
TIR I 06 16 06 21.4 41.85N 20.08E 30 2.9L ¶16017944
CSEM I 06 16 06 23.9–.15 41.85N 20.12E 2 2.1L
PDG I 06 16 06 24.5–.17 41.86N 20.06E 12–0 2.5,2.4L
BEO I 06 16 06 24.5–.30 41.81N 20.16E 10–3 2.1,2.4L
SKO I 06 16 06 25.5 41.77N 20.14E 1 2.1,2.4L
ATH I 06 16 06 27.1 41.73N 20.17E 31–9 3.4,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=49.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=0.8km az=0.0.
BEO Event type ke.
ATH Error ellipse: s-maj=5.7km s-min=4.4km az=-1.0.
ISC I 09 01 41 11.6–1.1 41.30N–.03 20.19E–.02 4–10 61 0-3
SKO I 09 01 41 11.9 41.28N 20.12E 12 ¶600871428
BEO I 09 01 41 11.1–.86 41.23N 20.23E 0 2.1
CSEM I 09 01 41 12.4–.25 41.35N 20.15E 2 2.1L
ATH I 09 01 41 15.9 41.18N 20.32E 22–1 3.3
ISC Event type ke.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.2km az=43.0.
ATH Error ellipse: s-maj=1.5km s-min=1.6km az=-1.0.
ISC I 09 20 18 02.6–.90 41.44N–.02 19.55E–.03 13–7 117 0-5
TIR I 09 20 17 59.8–2.9 41.58N 19.59E 5–19 2.1L ¶16014105
ATH I 09 20 18 02.0 41.44N 19.53E 15–2 3.0
CSEM I 09 20 18 02.4–.24 41.43N 19.52E 5 2.1L
SKO I 09 20 18 02.2 41.52N 19.58E 5 2.1L
BEO I 09 20 18 02.9–.65 41.42N 19.56E 9–2 2.1
PDG I 09 20 18 03.2–.33 41.46N 19.60E 10–0 2.0L
ISC Event type ke.
TIR Error ellipse: s-maj=5.6km s-min=11.2km az=-1.0.
ATH Error ellipse: s-maj=3.6km s-min=2.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.1km az=57.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=1.2km az=0.0.
BEO I 09 20 42 29.1–.75 41.39N 19.53E 10–4 2.0
CSEM I 09 20 42 28.4–.45 41.39N 19.44E 8 2.0L ¶16868857
TIR I 09 20 42 28.4 41.46N 19.53E 6 2.0L
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=5.0km az=32.0.
ISC I 09 23 07 37.5–1.1 40.68N–.02 19.82E–.03 10–9 58 1-5
TIR I 09 23 07 35.6 40.61N 20.13E 8 2.0L ¶16868858
BEO I 09 23 07 36.5–.96 40.49N 20.06E 0 2.3
ATH I 09 23 07 37.7 40.70N 19.86E 5–3 3.1
CSEM I 09 23 07 37.8–.36 40.65N 19.88E 2 3.1
SKO I 09 23 07 39.0 40.71N 19.90E 5 3.1
ISC Event type ke.
BEO Event type ke.
ATH Error ellipse: s-maj=0.7km s-min=1.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=6.6km az=78.0.
ISC I 12 00 03 32.2–1.1 40.85N–.05 19.56E–.06 11 18 1-2
ISCJB I 12 00 03 31.7–.72 40.88N–.05 19.55E–.07 11 ¶600871518
ATH I 12 00 03 34.5 40.77N 19.81E 23–2 3.1
CSEM I 12 00 03 36.0–1.5 40.73N 19.82E 20 1.7L
SKO I 12 00 03 37.0 41.83N 20.28E 17 1.7L,1.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=6.4km az=149.6.
ATH Error ellipse: s-maj=3.5km s-min=4.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=47.4km s-min=8.3km az=124.0.
TIR I 12 14 43 26.6 41.39N 19.55E 7
¶601991445
ATH I 14 23 06 37.7 40.28N 19.83E 13–1 3.2
CSEM I 14 23 06 37.7 40.28N 19.83E 13 3.2 ¶600871610
ATH Error ellipse: s-maj=1.6km s-min=1.9km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 15 01 16 56.1–1.1 41.51N–.02 20.47E–.02 7–10 42 0-3
SKO I 15 01 16 54.4 41.51N 20.44E 25 1.8L,1.0 ¶600871615
ATH I 15 01 16 54.2 41.61N 20.49E 6–4 2.9,1.0
CSEM I 15 01 16 55.4–.24 41.54N 20.46E 10 1.8L,1.0
BEO I 15 01 16 56.6–.71 41.53N 20.49E 20–2 1.8,1.0
ISC Event type ke.
ATH Error ellipse: s-maj=1.6km s-min=0.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=40.0.
BEO Event type ke.
ISC I 17 16 58 25.6–1.0 41.52N–.02 20.25E–.02 8–9 102 0-3
TIR I 17 16 58 17.6–5.9 41.25N 20.23E 7–999 3.3L ¶16014128
ATH I 17 16 58 23.5 41.57N 20.17E 5 3.3
PDG I 17 16 58 25.6–.29 41.53N 20.22E 8–0 2.4L
CSEM I 17 16 58 25.2–.16 41.54N 20.27E 5 2.1L
BEO I 17 16 58 26.4–.65 41.52N 20.26E 18–7 2.0
SKO I 17 16 58 26.2 41.49N 20.21E 8 2.1L,1.4
ISC Event type ke.
TIR Error ellipse: s-maj=9.1km s-min=14.7km az=-1.0.
ATH Error ellipse: s-maj=1.9km s-min=2.2km az=-1.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.9km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.6km az=44.0.
BEO Event type ke.
ISC I 17 18 44 00.5–1.1 41.89N–.02 20.14E–.02 4–10 93 1-5
CSEM I 17 18 44 00.4–.30 41.92N 20.16E 10 2.0L ¶16014129
SKO I 17 18 44 01.6 41.92N 20.10E 15 2.1L,1.9
BEO I 17 18 44 01.7–.36 41.92N 20.15E 9–5 2.0,1.9
PDG I 17 18 44 01.2–.11 41.93N 20.08E 7–0 2.5L,1.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.7km az=51.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.2km az=0.0.
ISC I 17 18 50 53.8–.78 41.57N–.02 20.48E–.02 2–8 185 1-8
ATH I 17 18 50 53.8 41.60N 20.47E 9–1 3.0 ¶16014130
THE I 17 18 50 54.5 41.59N 20.48E 1–4 2.7L
CSEM I 17 18 50 54.9–.13 41.55N 20.47E 2 2.8L
PDG I 17 18 50 54.5–.31 41.52N 20.42E 3–0 3.0L
SKO I 17 18 50 54.0 41.52N 20.45E 9 2.8L,2.1
BEO I 17 18 50 55.4–.34 41.56N 20.47E 5–3 2.5,2.1
ISC Event type ke.
ATH Error ellipse: s-maj=1.6km s-min=0.8km az=-1.0.
THE Event type ke. Error ellipse: s-maj=4.4km s-min=1.2km az=277.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.4km az=47.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.5km az=90.0.
BEO Event type ke.

ATH I 19 04 14 20.2 41.65N 20.00E 23–2 3.0
CSEM I 19 04 14 20.2–.59 41.68N 19.86E 15 3.0 ¶16014135
ATH Error ellipse: s-maj=5.2km s-min=4.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=13.3km s-min=12.0km az=146.0.
BEO I 27 18 44 46.9–1.4 41.71N 19.29E 0 2.1
CSEM I 27 18 44 46.7–1.0 41.70N 19.59E 2 2.1L ¶601254640
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=20.8km s-min=10.1km az=153.0.
ISC I 28 06 03 27.2–.75 41.53N–.01 20.24E–.01 7–6 3.5b 232 0-70
IDC I 28 06 03 23.4–2.5 41.21N 20.05E 0 3.5,3.4 ¶16014305
TIR I 28 06 03 24.5–2.5 41.61N 20.25E 6–720 3.5L,3.4
ATH I 28 06 03 26.7 41.60N 20.20E 15–3 3.6,3.4
BEO I 28 06 03 27.5–.56 41.48N 20.29E 0 3.1,3.4
THE I 28 06 03 27.9 41.57N 20.32E 0–3 3.4L,3.4
SKO I 28 06 03 28.1 41.47N 20.19E 14 3.6L,3.2
PDG I 28 06 03 28.2–.61 41.55N 20.22E 12–1 3.4,3.4L
CSEM I 28 06 03 28.0–.10 41.54N 20.24E 2 3.6,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=41.3km s-min=17.5km az=14.0.
TIR Error ellipse: s-maj=4.2km s-min=13.2km az=-1.0.
ATH Error ellipse: s-maj=3.8km s-min=3.5km az=-1.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=4.0km s-min=1.4km az=321.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.8km az=51.0.
ISC I 29 02 46 53.8–1.4 41.4N–.10 20.10E–.03 3–13 21 0-2
ISCJB I 29 02 46 52.7–1.7 41.4N–.10 20.08E–.05 7–6 ¶16871637
ATH I 29 02 46 52.9 41.40N 20.05E 18–1 3.0
TIR I 29 02 46 52.8 41.23N 20.05E 7 2.5L
CSEM I 29 02 46 53.4–.52 41.36N 20.10E 2 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.0km s-min=5.7km az=3.8.
ATH Error ellipse: s-maj=2.8km s-min=2.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=20.5km s-min=5.3km az=12.0.
ISC II 01 17 33 38.7–1.0 40.66N–.02 19.84E–.02 9–8 3.6b 360 1-78
PRU II 01 17 33 36.8 40.44N 19.80E 0 3.6b ¶16002072
IDC II 01 17 33 37.4–1.1 40.70N 19.76E 0 3.7,3.6
ATH II 01 17 33 38.8 40.68N 19.87E 13–1 3.4L,3.6
ROM II 01 17 33 39.0–.22 40.68N 19.86E 10 3.7L,3.6
THE II 01 17 33 39.1 40.67N 19.92E 0–2 3.4L,3.6
CSEM II 01 17 33 39.5–.10 40.66N 19.80E 10 3.4L,3.6
LDG II 01 17 33 39.1–.13 40.69N 19.82E 2 3.7L,3.6
PDG II 01 17 33 40.1–.49 40.75N 19.78E 11–1 3.5L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=14.3km az=155.0.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=208.0. Analyst: M.Papanikolaou
ML Amplitudes are expressed in micrometres All distances are expressed in km.
ROM Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=104.0.
THE Event type ke. Error ellipse: s-maj=2.9km s-min=0.6km az=307.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=42.0.
LDG Event type ke. Error ellipse: s-maj=5.7km s-min=3.0km az=31.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
ISC II 02 08 52 39.3–1.2 41.59N–.04 20.77E–.03 5–11 37 0-5
CSEM II 02 08 52 39.5–.26 41.61N 20.77E 5 2.5L ¶601108821
BEO II 02 08 52 39.0–.44 41.53N 20.81E 5–3 2.3
SKO II 02 08 52 40.3 41.63N 20.74E 12 2.5L,1.9
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=5.3km az=138.0.
BEO Event type ke.
BEO II 02 16 25 20.2–.99 41.17N 20.04E 0 2.1
TIR II 02 16 25 17.7 41.46N 20.34E 11 2.4L ¶16171880
SKO II 02 16 25 18.7 41.37N 20.01E 15 2.1L,1.7
CSEM II 02 16 25 19.5–.83 41.15N 19.99E 2 2.1L,1.7
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.3km s-min=6.3km az=29.0.
ISC II 03 02 24 33.2–1.2 41.80N–.03 19.48E–.02 1–10 105 0-4
CSEM II 03 02 24 33.0–.27 41.78N 19.45E 2 2.4L ¶16168015
PDG II 03 02 24 33.2–.12 41.80N 19.46E 12–0 2.5,2.4L
BEO II 03 02 24 34.4–.39 41.82N 19.48E 0 2.4,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.4km az=42.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.3km az=0.0.
BEO Event type ke.
ISC II 03 19 40 35.1–1.1 41.90N–.03 19.48E–.02 4–9 107 0-4
ISCJB II 03 19 40 34.0–.55 41.88N–.03 19.48E–.03 0–3 ¶16168017
CSEM II 03 19 40 34.8–.22 41.89N 19.48E 2 2.6L
BEO II 03 19 40 35.5–.33 41.89N 19.48E 0 2.3
PDG II 03 19 40 35.1–.09 41.93N 19.50E 10–0 2.7,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=31.4.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=21.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
ISC II 04 13 38 19.8–1.0 41.80N–.02 19.49E–.02 6–7 3.7b 259 0-92
IDC II 04 13 38 18.1–1.1 41.66N 19.43E 0 3.9,3.7 ¶16008951
BEO II 04 13 38 19.5–.36 41.72N 19.44E 0 3.4,3.7
CSEM II 04 13 38 20.5–.16 41.82N 19.45E 2 3.5L,3.7
PDG II 04 13 38 20.2–.12 41.85N 19.47E 12–0 3.5,3.5L
PRU II 04 13 38 20.1 41.71N 19.48E 0 3.5,3.5L
ISCJB II 04 13 38 20.5–.40 41.85N–.02 19.41E–.02 11–2 3.6b,3.5L
THE II 04 13 38 21.0 41.80N 19.38E 4–9 3.3L,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=16.6km s-min=13.7km az=3.0.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=43.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.2km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=137.5.
THE Event type ke. Error ellipse: s-maj=10.5km s-min=1.3km az=316.0.
TIR II 05 13 38 18.6–1.7 41.89N 19.54E 6–13 3.6L
¶602358585
TIR Error ellipse: s-maj=23.3km s-min=18.9km az=-1.0.
ATH II 07 01 25 10.4 40.71N 19.94E 5–31 1.9L
CSEM II 07 01 25 09.8–.31 40.72N 19.83E 2 1.9L ¶16171883
TIR II 07 01 25 10.3 40.68N 19.98E 7 2.7L
ATH Event type ke. Error ellipse: s-maj=31.6km s-min=1.1km az=0.0. Analyst: CHARALAMPAKIS
ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=5.8km az=64.0.
BEO II 07 12 07 41.1–.89 41.68N 19.49E 0 1.9
¶601254809
BEO Event type ke.
ISC II 07 17 26 05.6–1.0 41.21N–.02 20.28E–.02 4–9 175 0-7
BEO II 07 17 26 02.2–.76 40.91N 20.22E 0 3.1 ¶16168032
ATH II 07 17 26 03.5 41.45N 20.33E 24–1 2.8L
TIR II 07 17 26 04.2 41.28N 20.34E 7 3.3L
SKO II 07 17 26 05.7 41.22N 20.27E 6 2.9L,2.3
CSEM II 07 17 26 05.5–.15 41.20N 20.27E 2 2.8L,2.3
THE II 07 17 26 06.3 41.26N 20.43E 7–2 2.8L,2.3
PDG II 07 17 26 06.4–.78 41.27N 20.18E 2–1 3.4,3.3L
ISC Event type ke.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.2km az=9.0. Analyst: Agalos ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=48.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=78.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.7km az=0.0.
ISC II 07 18 37 52.8–1.2 40.59N–.04 19.88E–.07 7 20 1-2
ISCJB II 07 18 37 53.1–1.1 40.60N–.04 19.8E–.10 7 ¶600896264
CSEM II 07 18 37 53.4–.50 40.58N 19.89E 2 1.8L
ATH II 07 18 37 53.2 40.62N 19.88E 27–2 1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=5.3km az=173.3.
CSEM Event type ke. Error ellipse: s-maj=11.8km s-min=6.6km az=83.0.
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.5km az=303.0. Analyst: Papanikolaou ML
Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 07 23 47 12.6–.96 40.11N–.02 19.78E–.02 15–8 152 0-6
TIR II 07 23 47 08.4 40.03N 20.52E 16 3.3L ¶16171884
THE II 07 23 47 12.5 40.13N 19.77E 0–1 2.6L
ATH II 07 23 47 12.1 40.12N 19.79E 17–1 2.7L
CSEM II 07 23 47 12.3–.17 40.14N 19.75E 2 2.6L
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=266.0.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=100.0. Analyst: E.Daskalaki ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.0km az=67.0.
ISC II 08 03 26 03.8–1.0 41.22N–.02 20.29E–.02 6–9 169 0-5
BEO II 08 03 26 02.7–.94 41.02N 20.21E 0 2.6 ¶16168035
ATH II 08 03 26 02.8 41.29N 20.34E 10–1 2.4L
PDG II 08 03 26 03.5–.31 41.24N 20.29E 5–0 2.7L
SKO II 08 03 26 03.4 41.18N 20.26E 10 2.5L,1.8
CSEM II 08 03 26 03.9–.16 41.19N 20.29E 2 2.4L,1.8
THE II 08 03 26 03.6 41.28N 20.35E 0–1 2.4L,1.8
ISC Event type ke.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=234.0. Analyst: A.ANDREOU ML
Amplitudes are expressed in micrometres All distances are expressed in km.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=2.7km az=44.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=28.0.
ISC II 08 03 56 44.6–.94 41.21N–.01 20.26E–.01 12–7 3.5b 428 0-72
TIR II 08 03 56 40.7–5.4 41.29N 20.36E 25–27 3.2L ¶16019724
IDC II 08 03 56 42.3–1.4 41.16N 19.96E 0 3.6,3.5
BEO II 08 03 56 42.3–.66 40.94N 20.15E 0 3.5,3.5
ATH II 08 03 56 43.9 41.27N 20.31E 20–0 3.5L,3.5
LDG II 08 03 56 43.9–.09 41.26N 20.24E 2 3.3L,3.5
SKO II 08 03 56 44.7 41.22N 20.27E 7 3.5L,2.7
ISCJB II 08 03 56 44.0–.37 41.21N–.01 20.25E–.02 8–3 3.5s,3.4b
ROM II 08 03 56 44.1–.33 41.22N 20.29E 10 3.4L,3.4b
PDG II 08 03 56 44.3–.85 41.24N 20.26E 7–1 3.7,3.6L
CSEM II 08 03 56 44.4–.08 41.20N 20.25E 2 3.6s,3.5L
THE II 08 03 56 45.8 41.26N 20.42E 6–2 3.3L,3.5L
ISK II 08 03 56 46.0 41.20N 20.44E 10 3.2,3.5L
VIE II 08 03 56 46.9–.48 41.22N 19.99E 10 3.6s,3.1b
ISC Event type ke.
TIR Error ellipse: s-maj=54.6km s-min=30.1km az=-1.0.
IDC Error ellipse: s-maj=20.8km s-min=14.7km az=25.0.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=200.0. Analyst: diakogianni ML
Amplitudes are expressed in micrometres All distances are expressed in km.
LDG Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=20.0.
ISCJB Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=38.7.
ROM Event type ke. Error ellipse: s-maj=5.2km s-min=2.4km az=70.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.9km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.8km az=41.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=1.2km az=91.0.
VIE Error ellipse: s-maj=7.2km s-min=3.5km az=77.0.
ISC II 08 04 36 57.9–1.0 41.18N–.02 20.23E–.02 8–9 121 0-5
BEO II 08 04 36 54.5–.89 40.84N 19.86E 0 2.4 ¶16168037
TIR II 08 04 36 56.6 41.29N 20.33E 5 2.5L
ATH II 08 04 36 57.2 41.30N 20.32E 18–2 2.3L
CSEM II 08 04 36 57.0–.27 41.11N 20.21E 2 2.3L
SKO II 08 04 36 57.7 41.14N 20.21E 1 2.2L,1.6
PDG II 08 04 36 58.3–.14 41.24N 20.22E 6–0 2.5L,1.6
ISC Event type ke.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.4km s-min=1.2km az=206.0. Analyst: diakogianni ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.5km az=35.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.3km az=90.0.
ISC II 12 00 21 47.6–1.1 41.83N–.02 19.49E–.02 2–9 127 0-5
SKO II 12 00 21 45.8 41.81N 19.40E 43 2.4L,1.8 ¶16168063
CSEM II 12 00 21 46.9–.30 41.77N 19.46E 2 2.6L,1.8
PDG II 12 00 21 47.1–.11 41.81N 19.47E 9–0 2.8,2.6L
BEO II 12 00 21 48.1–.47 41.75N 19.36E 11–3 2.5,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.5km az=37.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.3km az=0.0.
BEO Event type ke.
ISC II 12 09 53 21.7–1.1 41.71N–.02 20.33E–.02 4–10 104 1-2
TIR II 12 09 53 19.3 41.82N 20.39E 7 2.9L ¶16168064
CSEM II 12 09 53 21.3–.21 41.70N 20.31E 5 2.2L
PDG II 12 09 53 21.4–.21 41.74N 20.33E 7–0 2.5L
SKO II 12 09 53 22.0 41.71N 20.30E 8 2.2L,1.6
BEO II 12 09 53 22.7–.32 41.69N 20.32E 11–4 2.2,1.6
THE II 12 09 53 22.2 41.72N 20.43E 0–3 2.2L,1.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=37.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.4km az=0.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=5.5km s-min=1.8km az=301.0.
ISC II 14 09 17 43.0–1.0 40.49N–.02 19.43E–.02 15–7 4.2b 423 1-123
TIR II 14 09 17 40.4 40.47N 19.48E 0 4.0L ¶16168854
IDC II 14 09 17 40.7–.69 40.45N 19.58E 0 4.0,4.0b
ATH II 14 09 17 41.1 40.53N 19.27E 29–1 4.3L,4.0b
BEO II 14 09 17 41.2–1.1 40.36N 19.30E 6–5 3.5,4.0b
PDG II 14 09 17 43.5–.58 40.53N 19.54E 13–1 3.7L,4.0b
THE II 14 09 17 44.1 40.48N 19.48E 13–2 4.1L,4.0b
CSEM II 14 09 17 44.5–.09 40.46N 19.47E 20 4.1L,4.0b
NEIC II 14 09 17 45.5 40.44N 19.52E 10 4.1L,4.0L
PRU II 14 09 17 45.4 40.49N 19.57E 10 4.1L,4.0L
ISC Event type ke.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=13.0.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=271.0. Analyst: F.Halaris ML
Amplitudes are expressed in micrometres All distances are expressed in km.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=273.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.7km az=57.0.
NEIC Event type se. After ATH.
ISC II 15 14 48 29.3–1.0 41.22N–.03 20.24E–.03 7–10 61 0-2
ATH II 15 14 48 26.9 41.36N 20.16E 48–8 2.2L ¶16168071
CSEM II 15 14 48 27.5–.67 40.95N 20.09E 2 2.2L
SKO II 15 14 48 28.2 41.00N 20.16E 1 2.2L
TIR II 15 14 48 28.2 41.25N 20.30E 0 2.3L
BEO II 15 14 48 28.6–1.1 40.95N 20.10E 0 2.3
PDG II 15 14 48 29.3–.20 41.25N 20.30E 3–1 2.4L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=10.6km s-min=1.7km az=257.0. Analyst: Koutrakis ML
Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=15.5km s-min=5.4km az=30.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
ISC II 16 09 24 40.2–1.1 41.51N–.02 20.02E–.02 1–10 88 0-3
TIR II 16 09 24 39.4 41.47N 20.03E 12 2.9L ¶16168077
CSEM II 16 09 24 40.2–.38 41.46N 19.95E 2 2.4L
SKO II 16 09 24 40.0 41.47N 19.96E 14 2.4L
PDG II 16 09 24 40.1–.09 41.52N 20.00E 2–0 2.6L
BEO II 16 09 24 42.7–.35 41.48N 20.00E 0 2.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=53.0.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
BEO Event type ke.
ISC II 21 05 57 03.9–1.1 40.58N–.01 19.91E–.02 6–9 258 1-9

TIR II 21 05 56 59.1–2.2 40.68N 19.94E 7–999 3.8L ¶16168092
BEO II 21 05 57 00.7–.66 40.31N 19.79E 0 3.2
PDG II 21 05 57 02.9–.44 40.52N 19.87E 5–1 3.3L
SKO II 21 05 57 03.8 40.49N 19.92E 0 3.2L,2.4
ATH II 21 05 57 04.5 40.60N 20.01E 15–1 3.0L,2.4
CSEM II 21 05 57 04.2–.13 40.58N 19.88E 2 3.0L,2.4
THE II 21 05 57 05.0 40.64N 19.98E 0–1 3.2L,2.4
ISC Event type ke.
TIR Error ellipse: s-maj=4.6km s-min=25.3km az=-1.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=1.3km s-min=1.1km az=90.0.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=110.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=60.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=267.0.
ISC II 21 07 14 17.0–1.1 40.73N–.01 19.84E–.02 7–9 200 1-5
SKO II 21 07 14 13.9 40.65N 19.61E 33 ¶16168093
ATH II 21 07 14 17.0 40.73N 19.88E 19–1 2.7L
CSEM II 21 07 14 17.4–.15 40.71N 19.85E 2 2.7L
BEO II 21 07 14 17.9–.83 40.68N 19.74E 13–3 2.6
THE II 21 07 14 18.2 40.71N 19.95E 0–1 2.7L
PDG II 21 07 14 22.4–.25 41.05N 19.88E 7–0 2.8L
TIR II 21 07 14 29.4 40.68N 19.94E 7 2.7L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=281.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=68.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=250.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.
ISC II 22 16 02 56.8–1.6 40.47N–.03 19.56E–.03 15–12 37 1-2
TIR II 22 16 02 49.4–5.3 40.45N 19.61E 20–999 3.1L ¶16171889
ATH II 22 16 02 56.5 40.47N 19.56E 29–1 2.4L
CSEM II 22 16 02 57.0–.20 40.47N 19.58E 15 2.4L
ISC Event type ke.
TIR Error ellipse: s-maj=9.1km s-min=18.4km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.9km az=284.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=4.4km az=86.0.
ATH II 24 19 48 58.0 40.73N 19.91E 33–4 2.1L
TIR II 24 19 48 52.2 40.65N 19.63E 7 2.6L ¶16170150
CSEM II 24 19 48 58.4–.34 40.72N 19.90E 15 2.1L
ATH Event type ke. Error ellipse: s-maj=4.1km s-min=1.3km az=6.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=5.2km az=77.0.
ISC III 02 10 29 14.3–.94 41.91N–.01 20.16E–.01 14–6 3.9b 482 1-123
IDC III 02 10 29 11.3–.97 41.73N 20.07E 0 3.8,3.8b ¶16193942
LDG III 02 10 29 13.8–.08 41.95N 20.17E 2 3.9L,3.8b
ISCJB III 02 10 29 14.3–.28 41.98N–.01 20.17E–.02 8–2 3.9b,3.8b
MOS III 02 10 29 14.4–.97 41.90N 20.07E 19 4.1b,3.8b
THE III 02 10 29 14.5 42.02N 20.22E 1–1 3.5L,3.8b
PDG III 02 10 29 14.2–.51 41.92N 20.18E 8–0 3.9,3.9L
CSEM III 02 10 29 15.0–.11 41.92N 20.12E 10 4.0b,3.8s
SKO III 02 10 29 15.3 41.87N 20.14E 10 3.3L,3.0
BEO III 02 10 29 15.0–.27 41.92N 20.19E 9–2 3.6,3.0
VIE III 02 10 29 16.3–.40 41.88N 19.96E 10 3.8s,3.6b
PRU III 02 10 29 16.2 41.69N 20.19E 22 3.8s,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=17.2km s-min=11.6km az=27.0.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=35.0.
ISCJB Event type ke. Error ellipse: s-maj=2.2km s-min=1.5km az=139.4.
MOS Error ellipse: s-maj=7.0km s-min=4.5km az=107.8.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=339.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=42.0.
BEO Event type ke.
VIE Error ellipse: s-maj=5.8km s-min=2.9km az=69.0.
ISC III 02 14 06 28.7–1.4 41.76N–.04 20.17E–.02 1–10 88 0-3
CSEM III 02 14 06 30.9–.33 41.88N 20.16E 2 2.3L ¶16401027
PDG III 02 14 06 31.7–.12 41.90N 20.10E 9–0 2.7L
BEO III 02 14 06 32.4–.34 41.90N 20.18E 4–3 2.3
SKO III 02 14 06 32.3 41.86N 20.12E 10 1.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=175.0.
PDG Event type ke. Error ellipse: s-maj=0.2km s-min=0.4km az=0.0.
BEO Event type ke.
ISC III 05 14 00 50.5–.94 41.84N–.02 19.65E–.02 13–7 3.4b 183 0-59
CSEM III 05 14 00 50.3–.16 41.86N 19.67E 2 3.1L ¶16401036
ISCJB III 05 14 00 50.1–.39 41.89N–.02 19.71E–.03 3–2 3.2b
IDC III 05 14 00 50.6–6.7 41.34N 19.83E 31–48 3.3,3.3
PDG III 05 14 00 50.6–.40 41.87N 19.66E 11–0 3.1,3.1L
TIR III 05 14 00 51.4 41.81N 19.39E 2 3.4L,3.1L
THE III 05 14 00 51.1 42.01N 19.88E 0–3 3.0L,3.1L
BEO III 05 14 00 51.0–.31 41.87N 19.69E 2–2 3.0,3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=36.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.6km az=142.9.
IDC Error ellipse: s-maj=42.6km s-min=21.5km az=172.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.8km az=0.0.
THE Event type ke. Error ellipse: s-maj=3.5km s-min=0.9km az=21.0.
BEO Event type ke.
ISC III 06 06 19 04.3–.98 40.54N–.03 19.94E–.04 7 21 1-1
TIR III 06 06 18 59.5 40.50N 20.03E 7 2.6L ¶16445696
ATH III 06 06 19 04.2 40.56N 19.94E 27–3 2.5L
ISCJB III 06 06 19 04.5–.72 40.56N–.05 19.90E–.07 7 2.5L
CSEM III 06 06 19 04.5–.20 40.53N 19.94E 10 2.5L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.5km az=230.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.4km az=22.1.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=90.0.
BEO III 08 02 28 27.5–.44 41.82N 20.15E 10–6 2.0
CSEM III 08 02 28 26.5–.24 41.85N 20.18E 2 2.0L ¶601255082
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=117.0.
ISC III 08 08 32 41.0–1.1 41.85N–.02 20.15E–.02 5–9 176 1-6
PDG III 08 08 32 40.7–.42 41.86N 20.16E 11–0 3.2,3.2L ¶16401038
ISCJB III 08 08 32 40.7–.37 41.87N–.02 20.17E–.02 3–2 3.2,3.2L
SKO III 08 08 32 41.5 41.86N 20.17E 11 3.2,3.2L
THE III 08 08 32 41.4 41.94N 20.22E 6–3 3.2L,3.2L
CSEM III 08 08 32 41.0–.15 41.85N 20.15E 2 2.7L,3.2L
BEO III 08 08 32 41.8–.29 41.80N 20.18E 15–3 2.7,3.2L
TIR III 08 08 32 43.7–2.8 41.73N 20.20E 38–607 3.3L,3.2L
ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.7km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.3km az=137.4.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=0.8km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.6km az=36.0.
BEO Event type ke.
TIR Error ellipse: s-maj=20.6km s-min=12.0km az=-1.0.
ISC III 12 08 45 00.2–1.2 41.26N–.04 20.01E–.02 4–9 127 0-6
TIR III 12 08 44 55.0–1.7 41.27N 20.05E 7–999 2.9L ¶603049589
PDG III 12 08 45 00.5–.20 41.31N 20.00E 8–0 3.0L
CSEM III 12 08 45 00.2–.47 41.25N 20.02E 2 2.8L
BEO III 12 08 45 00.2–.51 41.17N 20.01E 0 2.8
SKO III 12 08 45 00.4 41.28N 20.01E 4 2.8
ISC Event type ke.
TIR Error ellipse: s-maj=14.0km s-min=15.0km az=-1.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.5km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=4.6km az=16.0.
BEO Event type ke.

ISC III 16 02 51 19.1–1.0 41.24N–.04 20.08E–.04 7–8 33 0-5
CSEM III 16 02 51 18.9–.20 41.25N 20.09E 5 2.2L ¶16445775
ATH III 16 02 51 18.4 41.26N 20.07E 16–2 2.2L
TIR III 16 02 51 18.3 41.27N 20.12E 7 2.1L
SKO III 16 02 51 19.7 41.24N 20.02E 3 2.1L
ISCJB III 16 02 51 19.0–.66 41.30N–.04 20.08E–.04 11–5 2.1L
ISC Event type ke.
CSEM Event type ke.
ATH Event type ke. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke.
ISC III 17 03 15 54.7–.84 41.77N–.02 19.31E–.02 15–6 254 0-44
IDC III 17 03 15 51.8–1.9 41.67N 19.29E 0 3.6,3.4 ¶16401067
THE III 17 03 15 54.8 41.81N 19.33E 0–3 3.4L,3.4
ISCJB III 17 03 15 54.4–.34 41.80N–.01 19.30E–.02 12–2 3.4b,3.4
CSEM III 17 03 15 54.6–.11 41.79N 19.30E 5 3.8s,3.4L
ATH III 17 03 15 55.9 41.66N 19.35E 21–1 3.0L,3.4L
PDG III 17 03 15 55.2–.21 41.83N 19.37E 15–0 3.4,3.4L
VIE III 17 03 15 55.4–.83 41.78N 19.23E 10 3.8s,3.2b
BEO III 17 03 15 55.3–.38 41.78N 19.31E 7–2 3.2,3.2b
ISC Event type ke.
IDC Error ellipse: s-maj=25.4km s-min=15.4km az=6.0.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=1.1km az=254.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=147.9.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=54.0.
ATH Event type ke. Error ellipse: s-maj=3.8km s-min=1.8km az=117.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
VIE Error ellipse: s-maj=10.7km s-min=7.3km az=24.0.
BEO Event type ke.
ISC III 21 09 03 45.4–1.1 41.25N–.02 20.32E–.01 0–10 262 0-7
ATH III 21 09 03 44.7 41.30N 20.34E 12–0 3.1L ¶16401081
BEO III 21 09 03 45.7–.66 41.16N 20.34E 0 3.3
THE III 21 09 03 45.5 41.28N 20.33E 0–1 3.4L
SKO III 21 09 03 45.7 41.14N 20.22E 10 3.4L,2.5
CSEM III 21 09 03 46.0–.12 41.22N 20.30E 2 3.1L,2.5
PDG III 21 09 03 46.6–.73 41.27N 20.23E 4–1 3.5L,2.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=6.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=155.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=51.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.3km az=0.0.
ISC III 24 04 09 52.8–1.1 41.75N–.03 19.71E–.03 9–9 57 0-2
TIR III 24 04 09 32.9 41.79N 19.75E 7 2.4L ¶602003472
CSEM III 24 04 09 52.7–.44 41.79N 19.75E 5 2.2L
PDG III 24 04 09 52.6–.07 41.76N 19.71E 11–0 2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=6.9km az=51.0.
PDG Event type ke. Error ellipse: s-maj=0.1km s-min=0.2km az=0.0.
ISC III 25 04 58 06.6–1.2 41.06N–.04 20.27E–.03 4–12 47 0-3
ATH III 25 04 58 05.7 41.16N 20.30E 24–3 2.0L ¶16445499
SKO III 25 04 58 06.9 41.06N 20.23E 1 2.0L,1.6
BEO III 25 04 58 07.9–.93 40.99N 20.12E 0 2.1,1.6
CSEM III 25 04 58 08.0–.22 40.98N 20.34E 2 2.0L,1.6
TIR III 25 04 58 32.9 41.29N 20.39E 7 2.4L,1.6
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=5.8km s-min=1.0km az=29.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
BEO Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=56.0.
ISC III 26 23 05 08.7–1.4 41.00N–.07 20.18E–.04 7–11 22 0-3
ATH III 26 23 05 08.6 41.00N 20.09E 20–4 2.0L ¶16445501
CSEM III 26 23 05 08.6–.26 41.00N 20.15E 8 2.0L
TIR III 26 23 05 09.2 40.26N 20.33E 7 2.6L
SKO III 26 23 05 10.6 41.13N 20.22E 6 1.9L,1.4
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.3km s-min=1.1km az=325.0. Analyst: KOLLIGRI ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=19.0.
ISC IV 01 16 50 50.1–1.0 41.96N–.02 20.31E–.02 10–9 104 1-3
THE IV 01 16 50 48.3 42.37N 20.64E 26–14 2.7L ¶16495901
PDG IV 01 16 50 49.4–.25 41.95N 20.36E 11–0 2.5L
CSEM IV 01 16 50 50.4–.27 41.99N 20.31E 10 2.5L
BEO IV 01 16 50 53.0–.36 42.02N 20.37E 7–4 2.2
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=20.7km s-min=1.3km az=38.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.5km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=35.0.
BEO Event type ke.
ATH IV 22 00 30 23.0 40.93N 19.93E 13–2 2.0L
SKO IV 22 00 30 22.2 41.01N 19.84E 40 2.0L ¶16545165
CSEM IV 22 00 30 23.9–.31 41.01N 19.90E 20 2.0L
TIR IV 22 00 30 41.0 40.91N 19.95E 2 2.6L
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=59.0.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=6.3km az=52.0.
ISC IV 23 03 20 02.4–1.1 41.53N–.02 19.42E–.02 4–9 203 0-8
TIR IV 23 03 19 41.5 41.55N 19.28E 12 3.3L ¶16489768
ISCJB IV 23 03 20 01.8–.43 41.53N–.02 19.39E–.02 4–3 3.3L
CSEM IV 23 03 20 02.5–.12 41.53N 19.39E 5 2.6L
ATH IV 23 03 20 02.8 41.49N 19.48E 16–2 2.6L
PDG IV 23 03 20 03.3–.42 41.60N 19.56E 5–1 2.9,2.8L
THE IV 23 03 20 03.3 41.64N 19.26E 28–4 2.7L,2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=140.6.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=56.0.
ATH Event type ke. Error ellipse: s-maj=5.4km s-min=1.9km az=6.0.
PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.2km az=0.0.
THE Event type ke. Error ellipse: s-maj=4.3km s-min=1.0km az=306.0.
ISC IV 26 22 07 52.3–1.1 41.62N–.02 20.09E–.02 6–9 101 0-5
CSEM IV 26 22 07 52.4–.30 41.60N 20.08E 10 2.3L ¶16489773
SKO IV 26 22 07 52.7 41.62N 20.06E 11 2.3L
PDG IV 26 22 07 52.1–.35 41.67N 20.13E 12–0 2.5L
BEO IV 26 22 07 53.5–.34 41.59N 20.17E 8–3 2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.3km az=35.0.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
BEO Event type ke.
ISC V 14 08 45 52.3–.92 41.69N–.01 20.91E–.01 14–6 4.2b,3.5s 739 0-122
MOS V 14 08 45 50.1–1.1 41.65N 20.75E 14 4.4b,3.5s ¶602920614
ATH V 14 08 45 50.7 41.75N 20.95E 14–1 3.8L,3.5s
IDC V 14 08 45 50.1–.82 41.68N 20.84E 0 3.9,3.8
ISCJB V 14 08 45 51.1–.27 41.734N–.01 20.89E–.01 10–2 4.2b,3.7s
PDG V 14 08 45 51.4–.66 41.72N 20.94E 6–1 4.1,4.1L
SKO V 14 08 45 51.0 41.66N 20.87E 18 4.2L,3.8
THE V 14 08 45 51.5 41.71N 20.90E 2–0 3.9L,3.8
TIR V 14 08 45 51.8 41.85N 20.96E 14 3.9L,3.8
CSEM V 14 08 45 52.4–.07 41.70N 20.91E 10 4.3b,4.1W
NEIC V 14 08 45 52.8–.36 41.74N 20.81E 10 4.5b,4.2L
BEO V 14 08 45 52.4–.31 41.68N 20.92E 14–2 4.0,4.2L
LDG V 14 08 45 52.3–.13 41.74N 20.98E 10 4.1L,4.2L
PRU V 14 08 45 54.7 41.70N 20.68E 4 4.5,4.2L
ISC Event type ke.
MOS Error ellipse: s-maj=5.7km s-min=3.6km az=109.2.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=176.0.
IDC Error ellipse: s-maj=15.4km s-min=11.2km az=27.0.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.3km az=156.7.
PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
THE Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=307.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=60.0.

NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.7km az=180.0. Felt [IV] at Gostivar, [III] at Tetovo and [II] at Skopje. Also felt at Bogovinje, Kicevo, Kondovo, Negotino and Saraj. Felt at Pristina and Urosevac, Kosovo. Moment Tensor Solution. s15 Moment tensor: Scale 10^{15} Nm; M_{rr}-0.61 $M_{\theta\theta}$1.61 $M_{\phi\phi}$-1.00 $M_{r\theta}$-0.33 $M_{\theta\phi}$0.15 $M_{\phi r}$0.80 Best double couple: NP1: ϕ_s228.00000°,δ57.00000°,λ-156.00000°. NP2:ϕ_s125.00000°,δ70.00000°,λ-35.00000°. Principal axes: T 1.6600,Plg8.0000°,Azm179.0000°; N 0.0000,Plg50.0000°,Azm279.0000° ; P -1.6600,Plg39.0000°,Azm83.0000° $M_0$1.70000×10^{15}

BEO Event type ke.

LDG Event type ke. Error ellipse: s-maj=4.1km s-min=2.3km az=1.0.

ISC	**V**	**14 09 11 41.5–1.0**	**41.69N–.02**	**20.98E–.02**	**14–11**		**100**	**0-5**
SKO	V	14 09 11 40.8	41.66N	20.91E	17	2.7L,2.0		**¶16553238**
CSEM	V	14 09 11 41.7–.23	41.69N	20.99E	2	2.3L,2.0		
BEO	V	14 09 11 42.6–.36	41.73N	20.96E	4–3	2.3,2.0		
PDG	V	14 09 11 42.0–.17	41.70N	20.92E	4–0	2.6L,2.0		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=4.1km az=25.0.

BEO Event type ke.

PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.3km az=0.0.

ISC	**V**	**17 04 31 58.9–1.2**	**41.48N–.03**	**20.48E–.02**	**3–11**		**43**	**0-3**
TIR	V	17 04 31 57.8	41.51N	20.54E	7	2.6L		**¶602920616**
SKO	V	17 04 31 58.7	41.48N	20.50E	10	2.0L,1.5		
CSEM	V	17 04 31 59.4–.27	41.50N	20.50E	5	1.9L,1.5		
BEO	V	17 04 32 00.2–.37	41.50N	20.51E	4–4	1.9,1.5		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.5km az=50.0.

BEO Event type ke.

ISC	**V**	**18 06 32 26.9–.90**	**41.22N–.01**	**19.49E–.01**	**16–7**		**261**	**0-6**
ATH	V	18 06 32 25.2	41.26N	19.39E	18–3	3.0L		**¶602921336**
ROM	V	18 06 32 26.6–.27	41.21N	19.44E	10–2	3.1L,3.1		
ISCJB	V	18 06 32 27.7–.48	41.22N–.02	19.43E–.02	20–4	3.1L,3.1		
PDG	V	18 06 32 27.4–.66	41.24N	19.54E	10–1	3.2L,3.1		
THE	V	18 06 32 27.8	41.24N	19.45E	13–2	3.0L,3.1		
CSEM	V	18 06 32 28.3–.11	41.22N	19.44E	20	3.9L,3.1		
TIR	V	18 06 32 28.2–1.6	41.23N	19.43E	18–22	3.3L,3.1		
BEO	V	18 06 32 30.6–.29	41.49N	19.99E	2–2	2.6,3.1		

ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=7.3km s-min=1.6km az=326.0.

ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=149.0.

ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.3km az=0.4.

PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.

THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=268.0.

CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=56.0.

TIR Error ellipse: s-maj=17.5km s-min=19.1km az=-1.0.

BEO Event type ke.

ISC	**V**	**22 00 14 12.9–1.1**	**41.69N–.01**	**20.91E–.01**	**4–9**		**208**	**0-5**
PDG	V	22 00 14 12.9–.34	41.69N	20.90E	2–0	2.9L		**¶602920618**
CSEM	V	22 00 14 12.9–.11	41.71N	20.93E	2	2.6L		
ATH	V	22 00 14 12.1	41.71N	20.94E	14–1	2.5L		
SKO	V	22 00 14 12.8	41.63N	20.93E	15	2.8L,2.3		
BEO	V	22 00 14 13.5–.32	41.68N	20.92E	9–3	2.4,2.3		
TIR	V	22 00 14 13.1–3.9	41.64N	20.91E	7–25	3.0L,2.3		
THE	V	22 00 14 13.1	41.72N	20.94E	0–1	2.6L,2.3		

ISC Event type ke.

PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.

CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=55.0.

ATH Event type ke. Error ellipse: s-maj=2.8km s-min=1.3km az=171.0.

BEO Event type ke.

TIR Error ellipse: s-maj=51.3km s-min=33.7km az=-1.0.

THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=338.0.

ISC	**V**	**24 10 59 04.9–1.1**	**41.59N–.02**	**20.26E–.02**	**3–10**		**105**	**0-3**
TIR	V	24 10 59 03.4	40.64N	20.27E	5	2.8L		**¶602920620**
CSEM	V	24 10 59 05.3–.22	41.60N	20.19E	2	2.8L		
PDG	V	24 10 59 05.0–.16	41.58N	20.23E	11–0	2.9L		
BEO	V	24 10 59 06.0–.38	41.59N	20.25E	0	2.4		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=34.0.

PDG Event type ke. Error ellipse: s-maj=0.3km s-min=0.3km az=0.0.

BEO Event type ke.

ISC	**V**	**24 11 01 34.2–1.0**	**41.56N–.01**	**20.22E–.02**	**12–9**		**162**	**0-3**
ATH	V	24 11 01 31.6	41.75N	20.21E	11–2	2.7L		**¶602920621**
TIR	V	24 11 01 34.6	41.49N	20.27E	7	3.5L		
CSEM	V	24 11 01 34.9–.15	41.57N	20.26E	5	2.7L		
PDG	V	24 11 01 34.5–.44	41.59N	20.21E	4–1	3.1L		
THE	V	24 11 01 34.5	41.61N	20.33E	2–1	2.8L		
BEO	V	24 11 01 35.1–.33	41.53N	20.24E	7–2	2.7		

ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.0km az=183.0.

CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.8km az=58.0.

PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.9km az=0.0.

THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=294.0.

BEO Event type ke.

ISC	**V**	**30 15 25 52.2–1.0**	**41.92N–.02**	**20.13E–.02**	**12–9**		**101**	**1-4**
CSEM	V	30 15 25 51.2–.23	41.97N	20.20E	2	2.8L		**¶16553259**
PDG	V	30 15 25 52.4–.23	41.92N	20.09E	14–0	2.9,2.8L		
SKO	V	30 15 25 52.5	41.94N	20.12E	0	2.9,2.8L		
BEO	V	30 15 25 52.4–.28	41.98N	20.17E	4–3	2.3,2.8L		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=3.5km az=21.0.

PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.6km az=0.0.

BEO Event type ke.

ISC	**V**	**30 15 27 44.4–1.1**	**41.92N–.02**	**20.16E–.02**	**5–9**		**177**	**1-6**
ISCJB	V	30 15 27 43.8–.32	41.95N–.01	20.16E–.02	2–2			**¶602920625**
TIR	V	30 15 27 43.4	41.96N	20.19E	18	3.1L		
THE	V	30 15 27 44.9	42.13N	20.26E	21–5	3.0L		
CSEM	V	30 15 27 44.4–.12	41.93N	20.16E	2	3.1L		
SKO	V	30 15 27 45.2	41.94N	20.11E	0	3.1L		
BEO	V	30 15 27 45.4–.28	41.93N	20.18E	10–2	2.6		
PDG	V	30 15 27 46.1–.44	41.97N	20.02E	12–1	3.1,3.1L		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=137.4.

THE Event type ke. Error ellipse: s-maj=6.4km s-min=0.8km az=324.0.

CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=46.0.

BEO Event type ke.

PDG Event type ke. Error ellipse: s-maj=0.7km s-min=1.0km az=0.0.

ISC	**V**	**31 10 37 54.4–1.3**	**41.82N–.02**	**20.26E–.03**	**0–11**		**71**	**1-2**
CSEM	V	31 10 37 55.9–.33	41.84N	20.21E	2	2.0L		**¶602920627**
BEO	V	31 10 37 56.9–.39	41.88N	20.25E	0	2.0		
PDG	V	31 10 37 56.2–.25	41.82N	20.14E	11–0	2.5L		
SKO	V	31 10 37 56.1	41.88N	20.16E	16	2.5L		
TIR	V	31 10 37 57.4	41.76N	20.29E	8	2.4L		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.5km az=66.0.

BEO Event type ke.

PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=90.0.

ISC	**VI**	**09 16 16 34.2–.98**	**40.69N–.01**	**19.88E–.02**	**12–6**	**4.2b,3.2s**	**927**	**1-123**
PRU	VI	09 16 16 28.8	40.29N	19.46E	0	4.5,3.2s		**¶603247069**
ROM	VI	09 16 16 31.4–.34	40.56N	20.22E	10	4.3L,3.2s		
ATH	VI	09 16 16 32.7	40.77N	19.81E	13–1	3.9L,3.2s		
IDC	VI	09 16 16 32.4–.67	40.66N	19.78E	0	4.0,4.0b		
MOS	VI	09 16 16 33.3–1.0	40.71N	19.68E	18	4.4b,4.0b		
TIR	VI	09 16 16 33.8	40.74N	19.88E	15	4.1L,4.0b		
NEIC	VI	09 16 16 33.0	40.72N	19.86E	7	4.5b,4.1L		
LDG	VI	09 16 16 34.6–.08	40.68N	19.86E	10	4.2L,4.1L		
THE	VI	09 16 16 34.4	40.68N	19.92E	2–1	4.1L,4.1L		
PDG	VI	09 16 16 34.3–.72	40.70N	19.81E	11–1	4.0,4.0L		
CSEM	VI	09 16 16 35.0–.06	40.70N	19.83E	10	4.6b,4.3L		
BEO	VI	09 16 16 38.3–.71	40.81N	19.98E	21–3	3.9,4.3L		

ISC Event type ke.

ROM Event type ke. Error ellipse: s-maj=5.7km s-min=2.0km az=119.0.

ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=162.0.

IDC Error ellipse: s-maj=11.4km s-min=9.8km az=33.0.

MOS Error ellipse: s-maj=4.8km s-min=3.3km az=103.3.

NEIC Event type fe. Felt at Ballsh and Berat. After TIR.

LDG Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=39.0.

THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=139.0.

PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.

CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=45.0.

BEO Event type ke.

ISC	**VI**	**22 12 46 49.4–.87**	**41.28N–.02**	**19.64E–.02**	**15–6**		**224**	**0-7**
ATH	VI	22 12 46 47.8	41.44N	19.62E	25–1	3.0L		**¶16714295**
SKO	VI	22 12 46 48.2	41.24N	19.53E	11	3.4L,3.1		
PDG	VI	22 12 46 49.3–.63	41.32N	19.66E	17–1	3.4,3.4L		
CSEM	VI	22 12 46 49.3–.14	41.31N	19.64E	10	3.0L,3.4L		
THE	VI	22 12 46 50.5	41.38N	19.76E	8–4	3.4L,3.4L		
ISCJB	VI	22 12 46 50.1–.42	41.29N–.02	19.66E–.03	20–3	3.4L,3.4L		

ISC Event type ke.

ATH Event type ke.

PDG Event type ke.

CSEM Event type ke.

THE Event type ke.

ISCJB Event type ke.

ISC	**VI**	**27 08 35 26.0–.98**	**41.25N–.02**	**20.14E–.02**	**6–8**		**199**	**0-7**
ATH	VI	27 08 35 24.6	41.24N	20.11E	20–1	2.7L		**¶16714299**
BEO	VI	27 08 35 24.1–.82	41.06N	20.14E	0	2.5		
PDG	VI	27 08 35 25.8–.14	41.29N	20.13E	8–0	3.0L		
SKO	VI	27 08 35 25.5	41.22N	20.13E	12	3.0L		
CSEM	VI	27 08 35 25.7–.13	41.28N	20.17E	2	2.7L		
THE	VI	27 08 35 26.1	41.32N	20.21E	0–2	2.8L		

ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=30.0.

BEO Event type ke.

PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.3km az=90.0.

CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.2km az=55.0.

THE Event type ke. Error ellipse: s-maj=2.9km s-min=1.3km az=297.0.

ISC	**VI**	**27 12 33 45.6–.94**	**41.25N–.02**	**20.09E–.02**	**18–2**		**103**	**0-3**
ATH	VI	27 12 33 44.8	41.27N	20.17E	9–5	2.5L		**¶16714300**
BEO	VI	27 12 33 44.9–.69	41.10N	20.03E	0	1.9		
CSEM	VI	27 12 33 45.5–.23	41.21N	20.06E	2	2.5L		
SKO	VI	27 12 33 45.5	41.25N	20.13E	6	2.5L		
PDG	VI	27 12 33 46.9–.19	41.35N	20.04E	2–0	2.9L		

ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=5.0km s-min=1.1km az=302.0.

BEO Event type ke.

CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.6km az=51.0.

PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.

(392) Greece-Albania border region.

ISC	**I**	**01 03 05 56.9–1.1**	**39.23N–.03**	**19.90E–.04**	**32–9**		**93**	**0-7**
ISCJB	I	01 03 05 56.1–.59	39.18N–.03	19.91E–.05	26–4			**¶16868170**
CSEM	I	01 03 05 56.2–.28	39.18N	19.91E	20	3.4		
ATH	I	01 03 05 56.7	39.20N	19.99E	32–1	3.4		
THE	I	01 03 05 57.2	39.17N	20.04E	12–2	2.4L		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=3.9km az=162.8.

CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.2km az=67.0.

ATH Error ellipse: s-maj=0.9km s-min=1.3km az=-1.0.

THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=333.0.

ISC	**I**	**01 06 45 32.2–.99**	**39.96N–.02**	**20.57E–.03**	**14–10**		**48**	**0-2**
ATH	I	01 06 45 31.9	39.97N	20.58E	21–1	3.1		**¶600871206**
ISCJB	I	01 06 45 32.2–.68	39.99N–.03	20.55E–.06	16–8	3.1		
CSEM	I	01 06 45 32.2–.26	39.98N	20.57E	11–1	3.1		

ISC Event type ke.

ATH Error ellipse: s-maj=0.6km s-min=0.6km az=-1.0.

ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.8km az=29.1.

CSEM Event type ke. Error ellipse: s-maj=6.8km s-min=3.9km az=118.0.

ISC	**I**	**06 23 05 15.1–1.0**	**39.47N–.01**	**20.85E–.02**	**3–9**		**173**	**0-7**
ATH	I	06 23 05 14.8	39.47N	20.84E	10–1	3.4,2.9L		**¶16868811**
THE	I	06 23 05 15.3	39.47N	20.86E	0–1	2.5L,2.9L		
CSEM	I	06 23 05 15.5–.13	39.45N	20.84E	2	3.4,2.9L		
TIR	I	06 23 05 16.3	39.47N	20.82E	3	2.9L,2.9L		

ISC Event type ke.

ATH Error ellipse: s-maj=0.5km s-min=0.4km az=-1.0.

THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=313.0.

CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=56.0.

ISC	**I**	**09 06 59 23.6–1.1**	**40.70N–.01**	**20.32E–.02**	**3–10**		**220**	**1-6**
ATH	I	09 06 59 22.8	40.73N	20.31E	10–1	3.3		**¶16868845**
BEO	I	09 06 59 22.5–.71	40.47N	20.33E	10–3	2.5		
CSEM	I	09 06 59 24.2–.12	40.69N	20.35E	2	2.2L		
THE	I	09 06 59 24.6	40.71N	20.37E	0–2	2.4L		
SKO	I	09 06 59 25.0	40.69N	20.40E	20	2.3L,1.7		
TIR	I	09 06 59 26.1	43.57N	20.34E	14	2.6L,1.7		

ISC Event type ke.

ATH Error ellipse: s-maj=1.3km s-min=1.0km az=-1.0.

BEO Event type ke.

CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.1km az=74.0.

THE Event type ke. Error ellipse: s-maj=2.2km s-min=1.0km az=278.0.

SKO	**I**	**11 22 38 03.4**	**40.49N**	**20.95E**	**18**	**1.4L,1.0**		**¶601108732**
ISC	**I**	**13 22 52 19.5–1.3**	**40.18N–.02**	**20.00E–.03**	**3–11**		**73**	**0-3**
ATH	I	13 22 52 18.5	40.20N	19.98E	5–3	3.3		**¶16868953**
THE	I	13 22 52 18.9	40.20N	19.93E	0–5	2.1L		
CSEM	I	13 22 52 19.7–.42	40.18N	20.04E	2	2.1L		

ISC Event type ke.

ATH Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0.

THE Event type ke. Error ellipse: s-maj=6.5km s-min=1.2km az=309.0.

CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=102.0.

ISC	**I**	**14 18 50 25.8–1.0**	**39.78N–.03**	**20.75E–.03**	**16–11**		**31**	**0-1**
ISCJB	I	14 18 50 25.2–.57	39.80N–.05	20.75E–.05	19–6			**¶600871608**
CSEM	I	14 18 50 25.2–.28	39.77N	20.75E	17–2	3.1		
ATH	I	14 18 50 25.1	39.79N	20.76E	22–2	3.1		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.7km az=167.8.

CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.2km az=162.0.

ATH Error ellipse: s-maj=1.4km s-min=1.2km az=-1.0.

ATH	**I**	**16 17 22 30.4**	**39.91N**	**20.85E**	**14–2**	**2.7**		
CSEM	I	16 17 22 30.4	39.91N	20.85E	14	2.7		**¶600871655**

ATH Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0.

CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**I**	**18 07 04 26.6–.80**	**39.71N–.02**	**20.31E–.02**	**12–5**		**77**	**0-6**
ISCJB	I	18 07 04 26.7–.49	39.72N–.03	20.31E–.03	5–5			**¶16871440**
ATH	I	18 07 04 26.8	39.70N	20.31E	11–1	3.1		
THE	I	18 07 04 26.8	39.72N	20.30E	10–1	2.3L		
CSEM	I	18 07 04 26.6–.22	39.72N	20.30E	2	3.1		
TIR	I	18 07 04 26.2–2.8	39.77N	20.23E	5–25	2.4L		

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.2km az=30.2.

ATH Error ellipse: s-maj=0.6km s-min=0.4km az=-1.0.

THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=198.0.

CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=94.0.

TIR Error ellipse: s-maj=5.1km s-min=17.1km az=-1.0.

ISC	**I**	**19 00 16 02.8–.99**	**39.86N–.02**	**20.88E–.02**	**5–9**		**92**	**0-2**
CSEM	I	19 00 16 02.3–.20	39.87N	20.88E	2	2.2L		**¶16871455**
THE	I	19 00 16 02.7	39.84N	20.87E	0–2	2.2L		
ATH	I	19 00 16 02.5	39.85N	20.89E	9–2	3.1		

ISC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=121.0.

THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.7km az=307.0.

ATH Error ellipse: s-maj=0.9km s-min=1.0km az=-1.0.

ISC	**I**	**19 01 21 32.5–1.1**	**40.13N–.02**	**20.00E–.02**	**10–9**		**116**	**0-6**
TIR	I	19 01 21 28.8–.46	40.10N	19.64E	2–4	3.0L		**¶16871457**
ATH	I	19 01 21 30.5	40.22N	19.90E	6–1	2.8		
THE	I	19 01 21 31.0	40.19N	19.94E	0–2	2.2L		

CSEM I 19 01 21 32.1–.30 40.17N 20.02E 2 2.2L
ISC Event type ke.
TIR Error ellipse: s-maj=2.8km s-min=1.7km az=-1.0.
ATH Error ellipse: s-maj=1.1km s-min=1.6km az=-1.0.
THE Event type ke. Error ellipse: s-maj=3.2km s-min=1.0km az=302.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=86.0.
ISC I 19 18 59 33.0–.91 39.46N–.01 20.39E–.02 4–6 3.7b,3.0s 393 0-122
IDC I 19 18 59 32.4–.74 39.47N 20.40E 0 3.9,3.8 **¶15942569**
CSEM I 19 18 59 33.7–.14 39.43N 20.32E 2 3.8L,3.8
ATH I 19 18 59 33.0 39.46N 20.39E 8–0 3.8L,3.6
THE I 19 18 59 33.3 39.47N 20.39E 0–1 3.6L,3.6
PDG I 19 18 59 34.2–.96 39.48N 20.36E 4–2 3.5L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=14.4km s-min=12.5km az=10.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.2km az=56.0.
ATH Error ellipse: s-maj=0.3km s-min=0.3km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.6km az=289.0.
PDG Event type ke. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0.
ISC I 19 19 12 21.7–.61 39.45N–.01 20.34E–.02 7–4 3.8b 333 0-72
IDC I 19 19 12 20.4–.85 39.54N 20.48E 0 3.7,3.7b **¶15940544**
ATH I 19 19 12 21.4 39.48N 20.39E 9–0 3.5L,3.5
CSEM I 19 19 12 22.2–.14 39.45N 20.37E 2 3.5,3.5
THE I 19 19 12 22.2 39.48N 20.39E 2–1 3.5L,3.5
PDG I 19 19 12 22.5–.56 39.47N 20.41E 4–1 3.4L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=16.4km s-min=14.0km az=12.0.
ATH Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.3km az=53.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=9.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
ISC I 19 20 23 00.9–1.0 39.86N–.02 20.88E–.02 5–9 109 0-6
THE I 19 20 23 00.5 39.87N 20.91E 0–2 2.4L **¶16871472**
ATH I 19 20 23 00.4 39.88N 20.84E 5–1 3.5
CSEM I 19 20 23 01.0–.18 39.85N 20.90E 2 3.5
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.6km az=348.0.
ATH Error ellipse: s-maj=0.5km s-min=0.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=101.0.
ATH I 22 00 19 24.8 39.33N 20.93E 23–2 2.9
CSEM I 22 00 19 24.7–.17 39.34N 20.94E 16–1 2.9 **¶600871851**
ATH Error ellipse: s-maj=0.6km s-min=0.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.4km az=59.0.
ISC I 25 12 57 13.1–1.2 40.71N–.03 20.73E–.05 16–9 38 0-2
ATH I 25 12 57 12.8 40.72N 20.71E 17–1 3.0 **¶600871971**
CSEM I 25 12 57 12.8 40.72N 20.71E 17 3.0
ISC Event type ke.
ATH Error ellipse: s-maj=2.0km s-min=2.1km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 25 12 58 41.0–1.4 40.72N–.03 20.67E–.04 19–3 44 0-2
ATH I 25 12 58 40.9 40.72N 20.67E 19–1 3.0 **¶600871972**
CSEM I 25 12 58 40.9 40.72N 20.67E 19 3.0
ISC Event type ke.
ATH Error ellipse: s-maj=1.4km s-min=1.5km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 25 13 06 03.8–.98 40.72N–.02 20.71E–.02 9–9 125 0-3
SKO I 25 13 06 00.9 40.64N 20.50E 4 3.0L,2.1 **¶16014278**
TIR I 25 13 06 03.8 40.70N 20.79E 7 3.2L,2.1
ATH I 25 13 06 03.4 40.73N 20.70E 4 3.1,2.1
PDG I 25 13 06 03.5–.45 40.73N 20.73E 1–1 3.0L,2.1
THE I 25 13 06 03.5 40.73N 20.70E 4–1 3.0L,2.1
CSEM I 25 13 06 03.8–.15 40.67N 20.76E 2 3.1,2.1
ISC Event type ke.
ATH Error ellipse: s-maj=3.2km s-min=2.0km az=-1.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.9km az=0.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.7km az=165.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.9km az=70.0.
ISC I 26 09 45 56.8–1.1 40.74N–.03 20.73E–.03 15–8 64 0-3
THE I 26 09 45 55.5 40.74N 20.63E 13–0 2.4L **¶16871572**
SKO I 26 09 45 56.8 40.81N 20.78E 15 1.8L,1.4
ATH I 26 09 45 56.5 40.75N 20.72E 5–3 3.2,1.4
CSEM I 26 09 45 57.2–.56 40.74N 20.74E 2 3.2,1.4
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=289.0.
ATH Error ellipse: s-maj=1.5km s-min=1.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=7.4km az=114.0.
ISC I 26 10 39 22.3–1.1 40.75N–.02 20.76E–.02 4–9 121 0-3
SKO I 26 10 39 19.9 40.69N 20.48E 9 2.6L,2.1 **¶16871574**
THE I 26 10 39 21.4 40.73N 20.64E 2–14 2.8L,2.1
ISCJB I 26 10 39 22.4–.57 40.73N–.02 20.74E–.03 6–4 2.8L,2.1
CSEM I 26 10 39 22.4–.20 40.72N 20.74E 2 3.3,2.1
ATH I 26 10 39 22.3 40.75N 20.76E 18–1 3.3,2.1
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=14.6km s-min=0.9km az=126.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=31.6.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=89.0.
ATH Error ellipse: s-maj=1.4km s-min=1.3km az=-1.0.
ISC I 26 11 03 36.0–1.1 40.77N–.02 20.74E–.02 4–9 120 0-4
SKO I 26 11 03 33.1 40.71N 20.48E 12 2.6L,1.9 **¶16871575**
THE I 26 11 03 34.7 40.74N 20.64E 15–0 3.0L,1.9
ISCJB I 26 11 03 35.8–.60 40.74N–.02 20.75E–.03 4–4 3.0L,1.9
ATH I 26 11 03 36.4 40.74N 20.79E 20–1 3.3,1.9
CSEM I 26 11 03 37.3–.19 40.70N 20.82E 5 3.3,1.9
BEO I 26 11 03 44.3–1.0 41.00N 20.66E 27–0 2.3,1.9
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=290.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.1km az=160.9.
ATH Error ellipse: s-maj=1.7km s-min=1.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.7km az=74.0.
BEO Event type ke.
ISC I 26 11 11 12.9–1.0 40.72N–.01 20.71E–.02 7–8 379 0-10
ATH I 26 11 11 11.9 40.79N 20.72E 17–0 3.6 **¶16014286**
SKO I 26 11 11 11.7 40.71N 20.66E 18 3.2L,2.5
THE I 26 11 11 12.1 40.75N 20.66E 0–1 3.4L,2.5
CSEM I 26 11 11 12.9–.09 40.70N 20.72E 2 3.2L,2.5
BEO I 26 11 11 13.7–.81 40.69N 20.84E 10–6 3.2,2.5
PDG I 26 11 11 13.2–.54 40.75N 20.75E 7–1 3.4L,2.5
ISC Event type ke.
ATH Error ellipse: s-maj=1.1km s-min=1.0km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.8km az=310.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=1.8km az=65.0.
BEO Event type ke.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=1.0km az=0.0.
ISC I 26 14 44 28.9–.00 40.74N–.02 20.76E–.02 11–9 100 0-3
ISCJB I 26 14 44 28.4–.56 40.77N–.02 20.76E–.03 8–4 **¶16871577**
CSEM I 26 14 44 28.2–.16 40.75N 20.72E 5 2.7
SKO I 26 14 44 28.1 40.73N 20.72E 15 2.4L,1.7
THE I 26 14 44 28.7 40.72N 20.74E 0–2 2.4L,1.7
ATH I 26 14 44 28.9 40.74N 20.80E 21–1 2.7,1.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.5km az=175.2.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=101.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.6km az=325.0.
ATH Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
ISC I 26 17 29 53.6–1.2 40.68N–.03 20.75E–.04 5–12 46 0-2
SKO I 26 17 29 52.9 40.71N 20.73E 21 1.7L,1.3 **¶600872023**
CSEM I 26 17 29 53.7–.28 40.68N 20.77E 2 3.1,1.3
ATH I 26 17 29 54.6 40.65N 20.81E 7–1 3.1,1.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=116.0.
ATH Error ellipse: s-maj=0.6km s-min=0.5km az=-1.0.
ISC I 26 20 17 37.9–1.4 40.71N–.03 20.71E–.06 16–11 30 0-2
CSEM I 26 20 17 38.3–.43 40.71N 20.71E 5 2.9 **¶600872032**
ATH I 26 20 17 38.0 40.72N 20.70E 18–2 2.9
SKO I 26 20 17 38.0 40.72N 20.71E 17 1.4L,1.0
ISCJB I 26 20 17 39.1–.86 40.74N–.04 20.8E–.10 16–10 1.4L,1.0
ISC Event type ke.
CSEM Event type ke.
ISCJB Event type ke.
ISC I 26 20 52 33.7–1.1 40.73N–.03 20.71E–.04 15–9 36 0-2
ATH I 26 20 52 32.9 40.77N 20.66E 11–3 3.0 **¶600872033**
CSEM I 26 20 52 33.7–.36 40.73N 20.70E 2 3.0
SKO I 26 20 52 33.4 40.75N 20.74E 18 1.4L,1.0
ISC Event type ke.
ATH Error ellipse: s-maj=1.8km s-min=1.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=98.0.
ISC I 26 21 00 58.9–1.0 40.70N–.03 20.74E–.04 7 32 0-2
ISCJB I 26 21 00 58.9–.72 40.70N–.04 20.77E–.07 7 **¶600872034**
ATH I 26 21 00 58.7 40.71N 20.74E 18–2 3.0
CSEM I 26 21 00 58.7–.28 40.71N 20.72E 5 3.0
SKO I 26 21 00 59.4 40.77N 20.82E 15 1.6L,1.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.1km az=179.5.
ATH Error ellipse: s-maj=2.0km s-min=2.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.5km az=96.0.
ISC I 26 22 05 12.2–1.2 40.76N–.02 20.69E–.03 6–9 78 0-6
ISCJB I 26 22 05 12.8–.69 40.72N–.02 20.71E–.04 3–4 **¶16871586**
CSEM I 26 22 05 12.4–.19 40.73N 20.68E 2 2.2L
ATH I 26 22 05 12.1 40.77N 20.71E 15–1 3.2
SKO I 26 22 05 12.8 40.81N 20.65E 26 1.9L,1.5
THE I 26 22 05 12.8 40.72N 20.71E 0–2 2.2L,1.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.8km az=9.3.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=112.0.
ATH Error ellipse: s-maj=1.7km s-min=1.8km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.7km s-min=0.6km az=320.0.
ISC I 26 23 52 51.2–1.4 40.77N–.03 20.69E–.05 3–11 38 0-2
ATH I 26 23 52 50.9 40.79N 20.72E 5 3.1 **¶600872040**
CSEM I 26 23 52 51.9–.38 40.73N 20.76E 2 3.1
SKO I 26 23 52 52.1 40.74N 20.75E 15 1.8L,1.4
ISC Event type ke.
ATH Error ellipse: s-maj=2.6km s-min=2.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.2km az=101.0.
ISC I 26 23 55 09.8–1.3 40.72N–.03 20.66E–.04 20–6 31 0-2
CSEM I 26 23 55 09.8–.52 40.71N 20.68E 5 3.2 **¶600872041**
ATH I 26 23 55 09.2 40.74N 20.64E 15–3 3.2
SKO I 26 23 55 13.2 40.92N 20.91E 18 1.1L,0.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.5km s-min=7.0km az=86.0.
ATH Error ellipse: s-maj=1.7km s-min=1.7km az=-1.0.
ISC I 27 04 42 03.9–1.8 40.72N–.03 20.64E–.09 15–10 25 0-2
ATH I 27 04 42 03.2 40.74N 20.62E 18–0 2.9 **¶600872046**
ISCJB I 27 04 42 04.3–1.5 40.72N–.05 20.7E–.20 25–7 2.9
CSEM I 27 04 42 04.5–.71 40.71N 20.68E 15 2.9
SKO I 27 04 42 05.2 40.75N 20.77E 20 1.5L,1.1
ISC Event type ke.
ATH Error ellipse: s-maj=0.6km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=7.6km az=171.6.
CSEM Event type ke. Error ellipse: s-maj=16.3km s-min=6.8km az=80.0.
ISC I 27 09 05 39.6–1.3 40.74N–.03 20.67E–.05 11–14 30 0-2
SKO I 27 09 05 40.0 40.72N 20.74E 20 2.0L,1.7 **¶600872050**
ISCJB I 27 09 05 40.3–.84 40.70N–.04 20.75E–.07 3–9 2.0L,1.7
CSEM I 27 09 05 40.2–.29 40.71N 20.71E 5 2.7,1.7
ATH I 27 09 05 40.0 40.73N 20.70E 9–1 2.7,1.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=6.3km az=11.3.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=106.0.
ATH Error ellipse: s-maj=0.7km s-min=0.6km az=-1.0.
ISC I 29 18 16 21.8–1.0 40.71N–.03 20.74E–.04 14–9 38 0-2
CSEM I 29 18 16 21.6–.43 40.72N 20.73E 5 3.1 **¶600872156**
SKO I 29 18 16 22.0 40.77N 20.79E 15 1.6L,1.3
ATH I 29 18 16 22.0 40.71N 20.75E 18–2 3.1,1.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=7.3km az=105.0.
ATH Error ellipse: s-maj=3.0km s-min=2.0km az=-1.0.
ISC I 30 16 41 42.1–1.1 40.72N–.02 20.73E–.03 9–10 59 0-4
CSEM I 30 16 41 41.2–.36 40.70N 20.75E 2 3.4 **¶600872180**
ATH I 30 16 41 42.4 40.72N 20.74E 21–1 3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=6.9km az=89.0.
ATH Error ellipse: s-maj=1.2km s-min=1.1km az=-1.0.
ISC I 30 20 16 03.9–1.1 40.72N–.02 20.72E–.03 9–9 49 0-6
TIR I 30 20 16 00.0–2.1 40.70N 20.78E 3–999 2.8L **¶16871653**
ISCJB I 30 20 16 04.3–.70 40.71N–.03 20.74E–.05 17–8 2.8L
ATH I 30 20 16 04.0 40.71N 20.75E 20–1 3.1
SKO I 30 20 16 04.4 40.78N 20.78E 15 1.8L,1.4
CSEM I 30 20 16 04.2–.25 40.69N 20.75E 10 3.1,1.4
ISC Event type ke.
TIR Error ellipse: s-maj=4.9km s-min=18.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.5km az=143.5.
ATH Error ellipse: s-maj=1.4km s-min=1.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=5.0km az=51.0.
THE II 09 04 38 32.5 40.63N 20.90E 18–4 1.9L
CSEM II 09 04 38 31.5–.17 40.61N 20.83E 16–1 1.9L **¶601069998**
THE Event type ke. Error ellipse: s-maj=4.2km s-min=0.9km az=227.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=1.7km az=66.0.
ISC II 18 08 28 14.3–.93 40.97N–.02 20.78E–.02 8–7 85 0-3
SKO II 18 08 28 13.3 40.89N 20.80E 1 2.2L,1.7 **¶600896642**
ATH II 18 08 28 13.7 41.02N 20.76E 14–1 2.3L,1.7
CSEM II 18 08 28 14.8–.20 40.95N 20.80E 2 2.3L,1.7
BEO II 18 08 28 14.7–.72 40.88N 20.83E 0 2.6,1.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.8km s-min=0.9km az=210.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.8km az=56.0.
BEO Event type ke.
ISC II 23 09 08 57.1–1.1 40.74N–.02 20.75E–.02 5–9 87 0-3
TIR II 23 09 08 52.1–2.2 40.68N 20.76E 3–999 2.5L **¶16170149**
BEO II 23 09 08 55.0–1.0 40.42N 20.83E 0 2.5
ATH II 23 09 08 56.3 40.72N 20.72E 22–1 2.5L
SKO II 23 09 08 57.7 40.72N 20.73E 8 2.3L,1.7
CSEM II 23 09 08 57.6–.24 40.70N 20.82E 2 2.3L,1.7
THE II 23 09 08 57.0 40.73N 20.70E 5–1 2.5L,1.7
ISC Event type ke.
TIR Error ellipse: s-maj=5.0km s-min=18.7km az=-1.0.
BEO Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=140.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.2km az=86.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=130.0.
ISC II 23 11 23 29.2–1.0 40.69N–.01 20.73E–.02 5–9 216 0-5
BEO II 23 11 23 25.6–.73 40.19N 20.77E 5–3 3.1 **¶16168097**
TIR II 23 11 23 27.1–1.6 40.74N 20.71E 2–999 3.2L
ATH II 23 11 23 28.4 40.72N 20.73E 20–1 3.1L
CSEM II 23 11 23 29.9–.12 40.66N 20.79E 2 3.1L
PDG II 23 11 23 29.3–.57 40.72N 20.76E 1–1 3.2L
THE II 23 11 23 29.3 40.70N 20.71E 4–0 3.0L
SKO II 23 11 23 29.6 40.71N 20.71E 6 2.9L,2.5
ISC Event type ke.
BEO Event type ke.
TIR Error ellipse: s-maj=3.5km s-min=15.3km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=110.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.

CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.5km az=66.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.1km az=0.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.4km az=149.0.
ATH III 02 14 14 42.3 39.43N 20.65E 4–8 2.1L
CSEM III 02 14 14 42.4–.20 39.42N 20.65E 2 2.1L ¶16872223
THE III 02 14 14 42.1 39.44N 20.64E 11–6 2.1L
ATH Event type ke. Error ellipse: s-maj=8.7km s-min=0.9km az=223.0. Analyst: Orfanogiannaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.6km az=47.0.
THE Event type ke. Error ellipse: s-maj=6.3km s-min=0.6km az=15.0.
ATH III 11 14 59 58.8 39.38N 20.41E 15–6 1.6L
CSEM III 11 14 59 58.8 39.38N 20.41E 15 1.6L ¶600897134
ATH Event type ke. Error ellipse: s-maj=6.3km s-min=1.2km az=3.0. Analyst: Ch. Ventouzi ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 12 08 16 43.1–1.1 40.17N–.02 20.47E–.02 9–9 96 1-4
TIR III 12 08 16 38.1–1.6 40.21N 20.45E 2–999 3.1L ¶17194320
ATH III 12 08 16 42.5 40.19N 20.42E 29–1 2.8L
ISCJB III 12 08 16 42.4–1.2 40.23N–.02 20.40E–.04 11–9 2.8L
THE III 12 08 16 43.4 40.18N 20.48E 4–1 2.8L
CSEM III 12 08 16 43.1–.16 40.19N 20.45E 10 2.8L
SKO III 12 08 16 44.2 39.97N 20.85E 24 2.8L
ISC Event type ke.
TIR Error ellipse: s-maj=2.9km s-min=13.9km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=3.2km s-min=1.2km az=124.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=13.6.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=303.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.9km az=95.0.
THE III 14 16 07 27.8 39.63N 20.61E 17–2 1.8L
CSEM III 14 16 07 27.8 39.63N 20.61E 17 1.8L ¶601070195
THE Event type ke. Error ellipse: s-maj=5.1km s-min=0.7km az=223.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 31 23 59 31.1–.72 39.67N–.02 20.37E–.02 11–5 3.4b 213 0-45
IDC III 31 23 59 29.2–1.3 39.72N 20.52E 0 3.5,3.5b ¶16476042
ATH III 31 23 59 30.8 39.67N 20.39E 11–0 2.8L,3.5b
ISCJB III 31 23 59 30.8–.38 39.70N–.02 20.27E–.02 11–2 3.4b,3.5b
CSEM III 31 23 59 31.3–.14 39.68N 20.35E 2 3.2L,3.5b
THE III 31 23 59 31.0 39.64N 20.42E 1–1 3.2L,3.5b
ISC Event type ke.
IDC Error ellipse: s-maj=23.4km s-min=18.8km az=93.0.
ATH Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=266.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.5km az=155.3.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=107.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=309.0.
ISC IV 06 03 20 00.1–.83 39.78N–.02 19.87E–.02 10–6 103 0-6
ISCJB IV 06 03 19 59.6–.53 39.80N–.02 19.82E–.04 6–4 ¶16881429
ATH IV 06 03 19 59.4 39.79N 19.85E 14–1 2.7L
CSEM IV 06 03 20 00.2–.22 39.80N 19.89E 2 2.7L
THE IV 06 03 20 00.3 39.79N 19.90E 0–1 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.7km s-min=3.5km az=149.8.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=272.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.6km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.8km az=267.0.
ISC IV 18 22 47 29.1–1.2 40.41N–.02 20.72E–.02 80–5 223 0-6
SKO IV 18 22 47 29.0 40.30N 21.04E 54 ¶16489764
ATH IV 18 22 47 28.3 40.43N 20.75E 80–2 2.6L
ISCJB IV 18 22 47 28.7–.30 40.41N–.02 20.73E–.02 82–4 2.6L
CSEM IV 18 22 47 29.6–.10 40.40N 20.73E 74–2 2.6L
THE IV 18 22 47 29.6 40.42N 20.71E 73–1 2.6L
PDG IV 18 22 47 30.1–.56 40.43N 20.69E 60–1 2.8L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.2km az=73.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=149.1.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=100.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=1.2km az=0.0.
ISC IV 20 18 53 23.3–1.1 40.95N–.02 20.54E–.02 4–10 115 0-3
SKO IV 20 18 53 22.4 40.92N 20.51E 27 2.2L,1.8 ¶16489765
ATH IV 20 18 53 23.0 40.97N 20.53E 20–1 2.3L,1.8
CSEM IV 20 18 53 23.6–.13 40.93N 20.54E 2 2.2L,1.8
THE IV 20 18 53 23.3 40.97N 20.52E 0–1 2.3L,1.8
PDG IV 20 18 53 24.3–.27 41.06N 20.57E 6–0 2.6L,1.8
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.8km s-min=1.1km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.3km az=48.0.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.9km az=333.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.6km az=0.0.
ISC IV 21 04 56 56.7–.92 40.96N–.02 20.55E–.02 14–8 111 0-6
SKO IV 21 04 56 55.5 40.93N 20.51E 15 2.0L,1.7 ¶16881684
ATH IV 21 04 56 55.8 40.97N 20.56E 19–1 2.4L,1.7
ISCJB IV 21 04 56 57.0–.55 40.96N–.02 20.59E–.03 9–5 2.4L,1.7
CSEM IV 21 04 56 56.6–.15 40.93N 20.57E 2 1.8L,1.7
THE IV 21 04 56 57.2 40.94N 20.60E 3–1 2.6L,1.7
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.9km az=351.0.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.6km az=35.8.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.0km az=72.0.
THE Event type ke. Error ellipse: s-maj=2.1km s-min=0.7km az=128.0.
ISC IV 21 13 30 29.0–1.1 40.92N–.02 20.52E–.02 4–9 90 0-5
ATH IV 21 13 30 28.1 40.96N 20.53E 20–2 2.6L ¶16545162
SKO IV 21 13 30 28.1 40.91N 20.50E 15 2.4L,2.0
TIR IV 21 13 30 28.0 40.93N 20.56E 6 3.1L,2.0
CSEM IV 21 13 30 29.1–.15 40.92N 20.53E 2 2.4L,2.0
THE IV 21 13 30 29.3 40.93N 20.57E 0–1 2.7L,2.0
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=1.2km az=340.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=64.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=63.0.
ISC IV 21 15 24 33.5–1.2 40.93N–.03 20.57E–.03 8–10 41 0-5
CSEM IV 21 15 24 33.9–.20 40.90N 20.57E 5 2.0L ¶16545163
TIR IV 21 15 24 33.4 40.93N 20.56E 4 2.6L
SKO IV 21 15 24 34.8 40.95N 20.58E 13 2.0L,1.6
ATH IV 21 15 24 35.5 40.82N 20.71E 27–2 2.3L,1.6
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.8km az=61.0.
ATH Event type ke. Error ellipse: s-maj=4.3km s-min=1.2km az=130.0.
ISC IV 23 19 20 04.1–.97 40.94N–.02 20.53E–.02 10–8 137 0-6
TIR IV 23 19 20 02.4–3.3 40.94N 20.55E 2–999 ¶16545166
ISCJB IV 23 19 20 03.7–.49 40.95N–.02 20.54E–.03 5–4
ATH IV 23 19 20 03.4 40.97N 20.53E 22–1 2.6L
SKO IV 23 19 20 04.5 40.96N 20.59E 15 2.2L,1.7
CSEM IV 23 19 20 04.0–.13 40.92N 20.54E 2 2.4L,1.7
THE IV 23 19 20 05.7 40.89N 20.64E 6–0 2.7L,1.7
ISC Event type ke.
TIR Error ellipse: s-maj=9.6km s-min=26.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=142.7.
ATH Event type ke. Error ellipse: s-maj=1.7km s-min=0.8km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=56.0.
THE Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=128.0.
ISC IV 26 19 32 13.9–1.0 40.92N–.02 20.54E–.02 6–9 177 0-6
ATH IV 26 19 32 13.0 40.99N 20.52E 16–2 2.4L ¶16489772
SKO IV 26 19 32 13.3 40.87N 20.44E 4 2.3L,1.7
TIR IV 26 19 32 13.6 40.97N 20.56E 8 2.6L,1.7
CSEM IV 26 19 32 13.9–.11 40.91N 20.53E 5 2.2L,1.7
BEO IV 26 19 32 14.3–.75 40.89N 20.53E 6–4 2.2,1.7
THE IV 26 19 32 14.9 40.90N 20.62E 6–0 2.3L,1.7
PDG IV 26 19 32 14.0–.25 40.98N 20.54E 11–0 2.6L,1.7
ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=4.4km s-min=1.7km az=149.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=51.0.
BEO Event type ke.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=118.0.
PDG Event type ke. Error ellipse: s-maj=0.4km s-min=0.5km az=0.0.
ATH V 08 00 54 30.6 39.36N 20.83E 13–6 1.3L
CSEM V 08 00 54 30.6 39.36N 20.83E 13 1.3L ¶600916799
THE V 08 00 55 53.0 36.41N 25.39E 3–1 1.4L
ATH Event type ke. Error ellipse: s-maj=6.5km s-min=0.8km az=299.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.4km az=252.0.
ATH V 12 07 43 01.1 39.34N 20.97E 31–2 1.7L
CSEM V 12 07 43 01.1 39.34N 20.97E 31 1.7L ¶600916906
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
THE V 22 02 03 28.3 40.51N 20.97E 9–0 2.3L
ATH V 22 02 03 26.8 40.48N 20.98E 27–0 2.1L ¶601109150
CSEM V 22 02 03 27.3–.13 40.49N 20.96E 13–1 2.1L
SKO V 22 02 03 28.4 40.47N 20.99E 0 2.0L,1.7
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=129.0.
ATH Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=308.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=2.0km az=112.0.
THE V 22 03 11 11.2 40.52N 20.99E 11–0 2.0L
SKO V 22 03 11 09.2 40.40N 20.90E 0 0.8L,0.3 ¶16882368
CSEM V 22 03 11 10.7–.18 40.53N 20.97E 8 2.0L,0.3
ATH V 22 03 11 10.2 40.53N 20.96E 20–0 1.8L,0.3
THE Event type ke. Error ellipse: s-maj=0.6km s-min=0.3km az=117.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.4km az=121.0.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=125.0.
SKO V 22 03 30 25.2 40.51N 20.99E 0 1.2L,0.7
¶601109152
THE V 22 03 55 15.4 40.56N 20.81E 2–22 1.3L
CSEM V 22 03 55 14.1–.64 40.55N 20.71E 2 1.3L ¶601078246
SKO V 22 03 55 18.6 40.55N 21.03E 12 1.3L,0.8
THE Event type ke. Error ellipse: s-maj=22.9km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=3.7km az=95.0.
ISC V 22 06 36 19.3–.87 40.52N–.02 20.96E–.03 14–5 71 0-2
ATH V 22 06 36 18.3 40.52N 20.92E 20–1 2.0L ¶16882373
ISCJB V 22 06 36 19.2–.55 40.52N–.02 20.94E–.04 10–3 2.0L
CSEM V 22 06 36 19.1–.14 40.51N 20.95E 10 2.0L
THE V 22 06 36 19.5 40.52N 20.97E 11–0 2.0L
SKO V 22 06 36 20.7 40.56N 21.01E 15 2.0L
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=1.0km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.6km az=11.5.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=103.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.4km az=111.0.
ISC V 22 07 49 23.8–.84 39.25N–.01 20.55E–.02 15–5 3.9b 487 0-122
IDC V 22 07 49 21.2–.77 39.27N 20.49E 0 4.0,4.0b ¶16535838
ISCJB V 22 07 49 22.9–.36 39.25N–.01 20.48E–.02 8–2 4.0b,4.0b
ATH V 22 07 49 23.2 39.25N 20.56E 17–0 3.8L,4.0b
PDG V 22 07 49 23.9–1.1 39.27N 20.55E 10–1 3.9L,4.0b
THE V 22 07 49 23.9 39.25N 20.55E 0–0 3.9L,4.0b
CSEM V 22 07 49 24.2–.09 39.24N 20.52E 10 3.8L,4.0b
NEIC V 22 07 49 27.1–.49 39.26N 20.59E 44–6 4.0b,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=14.6km s-min=12.9km az=21.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=146.4.
ATH Event type ke. Error ellipse: s-maj=0.8km s-min=0.5km az=262.0.
PDG Event type ke. Error ellipse: s-maj=1.0km s-min=1.0km az=90.0.
THE Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=234.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=53.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.0km az=188.0.
ISC V 22 08 14 50.7–.93 39.26N–.01 20.57E–.02 11–8 174 0-7
ISCJB V 22 08 14 50.5–.44 39.27N–.01 20.48E–.03 8–3 ¶16553246
THE V 22 08 14 50.9 39.26N 20.56E 0–1 3.0L
ATH V 22 08 14 50.8 39.26N 20.57E 14–3 2.9L
CSEM V 22 08 14 51.1–.18 39.25N 20.55E 10 2.9L
PDG V 22 08 14 52.0–.29 39.31N 20.50E 18–1 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.0km az=152.9.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=259.0.
ATH Event type ke. Error ellipse: s-maj=3.7km s-min=0.6km az=285.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=68.0.
PDG Event type ke. Error ellipse: s-maj=1.4km s-min=0.9km az=90.0.
ISC V 23 04 02 31.9–1.0 40.51N–.02 20.97E–.04 17–6 45 0-2
TIR V 23 04 02 31.2 40.54N 20.90E 7 2.0L ¶602920619
ISCJB V 23 04 02 31.9–.81 40.52N–.03 20.92E–.06 11–4 2.0L
CSEM V 23 04 02 31.8–.26 40.50N 20.95E 12 2.7L
ATH V 23 04 02 31.5 40.51N 20.97E 21–3 2.6L
THE V 23 04 02 31.7 40.51N 20.90E 11–1 2.7L
SKO V 23 04 02 33.3 40.56N 21.00E 14 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.2km az=11.3.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.5km az=102.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.6km az=162.0.
THE Event type ke. Error ellipse: s-maj=1.8km s-min=0.6km az=94.0.
SKO V 23 04 33 04.1 40.47N 20.92E 11 1.6L,1.3
¶601109161
THE V 24 09 07 15.9 40.52N 20.98E 13–0 2.3L
CSEM V 24 09 07 16.4–.39 40.52N 21.06E 5 2.2L ¶16882423
ATH V 24 09 07 16.4 40.50N 21.05E 15–2 2.2L
SKO V 24 09 07 18.1 40.65N 21.03E 19 2.2L
THE Event type ke. Error ellipse: s-maj=0.8km s-min=0.3km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=6.7km az=130.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=1.2km az=303.0.
SKO V 24 13 33 29.2 40.41N 20.92E 0
¶601109167
THE V 24 17 34 44.1 39.52N 20.50E 0–1 2.3L
CSEM V 24 17 34 43.9–.13 39.54N 20.51E 5 2.3L ¶16882433
ATH V 24 17 34 43.8 39.54N 20.51E 13–3 2.2L
THE Event type ke. Error ellipse: s-maj=1.9km s-min=0.5km az=310.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.2km az=92.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=0.9km az=289.0.
ISC V 28 01 03 51.0–.86 39.26N–.01 20.47E–.02 13–5 4.5b,3.4s 937 0-122
TIR V 28 01 03 48.9–.84 39.15N 20.42E 20–5 4.0L,3.4s ¶602920622
HLW V 28 01 03 48.4 39.57N 21.10E 33–24 4.4L,3.4s
ISCJB V 28 01 03 50.2–.39 39.30N–.01 20.39E–.01 9–2 4.4b,3.4s
MOS V 28 01 03 51.8–1.2 39.32N 20.43E 30 4.6b,3.4s
ATH V 28 01 03 51.9 39.28N 20.54E 21–0 4.1L,3.4s
CSEM V 28 01 03 51.1–.11 39.23N 20.41E 10 4.4b,4.2W
PDG V 28 01 03 51.0–.96 39.29N 20.51E 6–1 4.2,4.1L
THE V 28 01 03 52.0 39.26N 20.52E 1–0 4.2L,4.1L
NEIC V 28 01 03 52.0 39.26N 20.52E 1 4.5b,4.4W
IDC V 28 01 03 54.9–1.4 39.34N 20.56E 40–12 4.2,4.2
ISC Event type ke.
TIR Error ellipse: s-maj=6.4km s-min=9.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=135.4.
MOS Error ellipse: s-maj=5.0km s-min=3.1km az=75.8.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=282.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=52.0.
PDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.8km az=90.0.
THE Event type ke. Error ellipse: s-maj=0.5km s-min=0.2km az=269.0.
NEIC Event type se. After THE. Moment Tensor Solution. s26 Moment tensor: Scale 10^{15}Nm; M_{rr}2.91 $M_{\theta\theta}$-0.13 $M_{\phi\phi}$-2.78 $M_{r\theta}$1.63 $M_{\theta\phi}$2.43 $M_{\phi r}$-1.82 Best double couple: NP1:ϕ_s343.00000° ,δ29.00000°,λ110.00000°. NP2:ϕ_s140.00000°,δ63.00000°,λ79.00000°. Principal axes: T 3.7200,Plg70.0000°,Azm26.0000°; N 1.2400,Plg10.0000°,Azm145.0000° ; P -4.9500,Plg17.0000°,Azm238.0000° $M_0$4.50000×10^{15}
IDC Error ellipse: s-maj=13.4km s-min=10.0km az=171.0.
ISC V 28 07 27 52.7–.97 39.27N–.01 20.52E–.02 10–6 4.1b 564 0-94
TIR V 28 07 27 48.9 39.66N 19.83E 8 3.7L ¶602920624

ISCJB	V	28 07 27 51.7–.41	39.27N–.01	20.43E–.02	3–2	4.2b			
IDC	V	28 07 27 51.1–.80	39.33N	20.66E	0	4.2b,4.1			
ATH	V	28 07 27 52.5	39.25N	20.54E	18–1	3.9L,4.1			
PDG	V	28 07 27 52.8–.55	39.29N	20.50E	7–1	3.9L,4.1			
BEO	V	28 07 27 52.7–.76	39.25N	20.37E	1–7	3.8,4.1			
CSEM	V	28 07 27 52.7–.08	39.26N	20.48E	2	4.2b,4.1			
NEIC	V	28 07 27 52.5	39.25N	20.54E	18	4.1b,3.9L			
THE	V	28 07 27 53.4	39.25N	20.54E	0–0	3.8L,3.9L			
MOS	V	28 07 27 55.3–1.2	39.42N	20.59E	35	4.3b,3.9L			
SOF	V	28 07 28 06.5	39.90N	21.27E	110	3.4,3.9L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=143.9.								
IDC	Error ellipse: s-maj=14.8km s-min=12.5km az=178.0.								
ATH	Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=25.0.								
PDG	Event type ke. Error ellipse: s-maj=0.6km s-min=0.9km az=0.0.								
BEO	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=2.3km s-min=1.4km az=50.0.								
NEIC	Event type se. After ATH.								
THE	Event type ke. Error ellipse: s-maj=0.6km s-min=0.2km az=267.0.								
MOS	Error ellipse: s-maj=8.8km s-min=6.0km az=83.1.								
ISC	**V**	**28 18 04 13.4–1.0**	**39.24N–.01**	**20.52E–.02**	**8–7**	**3.7b**	**249**	**0-68**	
IDC	V	28 18 04 11.8–.88	39.30N	20.66E	0	3.8b,3.7			**¶16553257**
PDG	V	28 18 04 12.8–.28	39.09N	20.29E	22–3	3.5L,3.7			
ISCJB	V	28 18 04 13.5–.46	39.25N–.02	20.46E–.02	8–3	3.7b,3.7			
CSEM	V	28 18 04 13.6–.13	39.23N	20.50E	2	3.4L,3.7			
ATH	V	28 18 04 13.3	39.23N	20.56E	12–1	3.4L,3.7			
THE	V	28 18 04 14.3	39.25N	20.56E	0–1	3.4L,3.7			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=19.2km s-min=15.2km az=66.0.								
PDG	Event type ke. Error ellipse: s-maj=3.7km s-min=1.7km az=90.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=1.9km az=145.4.								
CSEM	Event type ke. Error ellipse: s-maj=3.4km s-min=1.9km az=55.0.								
ATH	Event type ke. Error ellipse: s-maj=1.9km s-min=0.8km az=261.0.								
THE	Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=261.0.								
ISC	**V**	**31 05 24 16.9–.99**	**39.24N–.01**	**20.53E–.02**	**7–7**	**3.6b**	**264**	**0-45**	
TIR	V	31 05 24 15.9	39.26N	20.34E	28	3.1L			**¶602920626**
BEO	V	31 05 24 15.1–.89	39.09N	20.56E	0	3.1			
IDC	V	31 05 24 15.2–1.0	39.36N	20.73E	0	3.7,3.7b			
ISCJB	V	31 05 24 16.4–.41	39.26N–.01	20.49E–.02	6–3	3.5b,3.7b			
ATH	V	31 05 24 16.8	39.25N	20.56E	14–1	3.1L,3.7b			
CSEM	V	31 05 24 16.7–.09	39.25N	20.52E	2	3.5L,3.7b			
THE	V	31 05 24 16.9	39.27N	20.54E	0–1	3.5L,3.7b			
PDG	V	31 05 24 17.3–.65	39.29N	20.46E	7–1	3.5L,3.7b			
ISC	Event type ke.								
BEO	Event type ke.								
IDC	Error ellipse: s-maj=17.8km s-min=16.1km az=87.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=1.9km az=149.9.								
ATH	Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=262.0.								
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=59.0.								
THE	Event type ke. Error ellipse: s-maj=1.5km s-min=0.4km az=254.0.								
PDG	Event type ke. Error ellipse: s-maj=0.8km s-min=1.3km az=0.0.								
ISC	**VI**	**09 14 32 32.8–.94**	**39.10N–.01**	**20.65E–.02**	**8–6**	**4.0b,3.0s**	**382**	**0-122**	
IDC	VI	09 14 32 31.8–.81	39.18N	20.56E	0	4.0,4.0b			**¶603247068**
ISCJB	VI	09 14 32 32.1–.41	39.08N–.01	20.56E–.02	7–3	3.9b,3.0s			
PDG	VI	09 14 32 32.6–.70	39.13N	20.64E	2–1	3.8L,3.0s			
THE	VI	09 14 32 32.6	39.10N	20.66E	17–0	3.8L,3.0s			
CSEM	VI	09 14 32 32.6–.12	39.09N	20.59E	2	3.6L,3.0s			
ATH	VI	09 14 32 32.6	39.08N	20.64E	8–1	3.6L,3.0s			
TIR	VI	09 14 32 35.7–1.4	39.15N	20.62E	2–376	3.5L,3.0s			
BEO	VI	09 14 32 38.1–.87	39.49N	20.24E	0	3.7,3.0s			
SOF	VI	09 14 32 47.7	39.89N	21.47E	2	3.6,3.0s			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=15.9km s-min=14.2km az=51.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.4km s-min=1.8km az=149.7.								
PDG	Event type ke. Error ellipse: s-maj=0.7km s-min=0.8km az=0.0.								
THE	Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=41.0.								
CSEM	Event type ke. Error ellipse: s-maj=3.7km s-min=1.9km az=54.0.								
ATH	Event type ke. Error ellipse: s-maj=1.5km s-min=0.6km az=246.0.								
TIR	Error ellipse: s-maj=13.8km s-min=13.4km az=-1.0.								
BEO	Event type ke.								
ISC	**VI**	**10 03 30 22.8–1.1**	**40.13N–.02**	**20.06E–.02**	**6–10**		**103**	**0-4**	
TIR	VI	10 03 30 14.7	40.14N	20.08E	4	3.3L			**¶603247071**
BEO	VI	10 03 30 21.9–1.1	39.87N	20.00E	18–6	2.9			
THE	VI	10 03 30 22.0	40.18N	20.01E	0–1	2.8L			
ATH	VI	10 03 30 22.9	40.13N	20.06E	7–2	2.6L			
CSEM	VI	10 03 30 23.7–.24	40.13N	20.04E	2	2.6L			
ISC	Event type ke.								
BEO	Event type ke.								
THE	Event type ke. Error ellipse: s-maj=2.2km s-min=0.7km az=307.0.								
ATH	Event type ke. Error ellipse: s-maj=2.7km s-min=1.4km az=215.0.								
CSEM	Event type ke. Error ellipse: s-maj=6.0km s-min=3.9km az=77.0.								
ISC	**VI**	**12 05 01 18.7–1.5**	**40.19N–.04**	**20.45E–.05**	**2–14**		**21**	**1-1**	
TIR	VI	12 05 01 11.3–3.1	40.23N	19.98E	5–999	2.5L			**¶603247072**
CSEM	VI	12 05 01 18.8–.41	40.16N	20.37E	10	2.4L			
THE	VI	12 05 01 20.3	40.10N	20.46E	10–2	2.4L			
ISC	Event type ke.								
TIR	Error ellipse: s-maj=6.5km s-min=75.7km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=9.8km s-min=6.1km az=101.0.								
THE	Event type ke. Error ellipse: s-maj=2.5km s-min=0.6km az=307.0.								
ISC	**VI**	**17 01 28 47.4–1.0**	**39.98N–.02**	**20.72E–.02**	**5–7**	**3.9b**	**404**	**0-59**	
ISCJB	VI	17 01 28 47.0–.40	39.99N–.01	20.72E–.02	4–3	3.8b,3.6s			**¶16621507**
SKO	VI	17 01 28 46.6	39.87N	20.70E	1	3.8b,3.6s			
THE	VI	17 01 28 47.8	40.00N	20.74E	0–2	3.8L,3.6s			
ATH	VI	17 01 28 47.0	39.99N	20.74E	19–1	3.6L,3.6s			
IDC	VI	17 01 28 48.8–3.8	40.02N	20.67E	14–28	3.8,3.8b			
CSEM	VI	17 01 28 48.0–.09	39.97N	20.73E	2	3.6L,3.8b			
PDG	VI	17 01 28 48.2–.60	40.02N	20.79E	8–1	3.5L,3.8b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=138.7.								
THE	Event type ke. Error ellipse: s-maj=2.0km s-min=0.6km az=300.0.								
ATH	Event type ke. Error ellipse: s-maj=1.3km s-min=0.8km az=296.0.								
IDC	Error ellipse: s-maj=11.9km s-min=10.4km az=24.0.								
CSEM	Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=52.0.								
PDG	Event type ke. Error ellipse: s-maj=0.6km s-min=0.9km az=0.0.								
ISC	**VI**	**21 04 42 11.9–1.0**	**39.07N–.01**	**20.56E–.02**	**7–8**	**3.5b**	**216**	**0-45**	
ISCJB	VI	21 04 42 11.7–.52	39.08N–.02	20.47E–.03	7–4	3.5b			**¶16731103**
IDC	VI	21 04 42 11.9–1.4	39.23N	20.65E	0	3.6,3.6b			
ATH	VI	21 04 42 12.5	39.07N	20.62E	7–1	3.0L,3.6b			
CSEM	VI	21 04 42 12.2–.17	39.07N	20.52E	2	3.3L,3.6b			
THE	VI	21 04 42 12.7	39.08N	20.58E	0–2	3.3L,3.6b			
BEO	VI	21 04 42 18.7–.78	39.50N	20.33E	0	3.1,3.6b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.1km s-min=2.3km az=154.7.								
IDC	Error ellipse: s-maj=31.0km s-min=24.9km az=130.0.								
ATH	Event type ke. Error ellipse: s-maj=1.9km s-min=0.7km az=228.0.								
CSEM	Event type ke. Error ellipse: s-maj=4.5km s-min=2.3km az=62.0.								
THE	Event type ke. Error ellipse: s-maj=2.3km s-min=0.6km az=263.0.								
BEO	Event type ke.								
ISC	**VI**	**26 21 27 28.6–.78**	**39.73N–.02**	**20.43E–.02**	**16–5**	**3.5b**	**236**	**0-45**	
IDC	VI	26 21 27 25.8–1.2	39.81N	20.55E	0	3.6,3.5			**¶16721008**
CSEM	VI	26 21 27 28.5–.14	39.76N	20.40E	2	3.2L,3.5			
ATH	VI	26 21 27 28.5	39.74N	20.42E	16–1	3.2L,3.5			
THE	VI	26 21 27 28.8	39.72N	20.44E	0–2	3.3L,3.5			
ISCJB	VI	26 21 27 28.1–.54	39.77N–.02	20.30E–.03	11–4	3.5b,2.9s			
SKO	VI	26 21 27 30.3	39.71N	20.49E	9	3.5b,2.9s			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=25.8km s-min=18.2km az=64.0.								
CSEM	Event type ke. Error ellipse: s-maj=3.9km s-min=2.7km az=54.0.								
ATH	Event type ke. Error ellipse: s-maj=1.1km s-min=0.7km az=301.0.								
THE	Event type ke. Error ellipse: s-maj=2.4km s-min=0.7km az=323.0.								
ISCJB	Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=152.2.								
ISC	**VI**	**29 00 41 16.5–1.2**	**40.13N–.02**	**20.01E–.03**	**0–10**		**66**	**0-4**	
TIR	VI	29 00 41 02.4	40.14N	19.91E	261	2.0L			**¶603247081**
SKO	VI	29 00 41 14.0	40.01N	19.94E	3	2.0L			
THE	VI	29 00 41 15.1	40.20N	19.87E	0–2	2.5L			
CSEM	VI	29 00 41 15.7–.34	40.16N	19.91E	2	2.4L			
ATH	VI	29 00 41 16.1	40.13N	19.95E	10–5	2.4L			
ISC	Event type ke.								
THE	Event type ke. Error ellipse: s-maj=2.8km s-min=0.9km az=303.0.								
CSEM	Event type ke. Error ellipse: s-maj=7.3km s-min=4.3km az=84.0.								
ATH	Event type ke. Error ellipse: s-maj=5.8km s-min=1.8km az=254.0.								
ISC	**VI**	**30 00 38 03.4–.96**	**39.23N–.01**	**20.58E–.02**	**8–7**	**3.5b**	**212**	**0-45**	
ISCJB	VI	30 00 38 03.0–.43	39.24N–.01	20.56E–.03	3–4	3.4b			**¶16881127**
CSEM	VI	30 00 38 03.4–.19	39.23N	20.54E	5	3.0L			
ATH	VI	30 00 38 03.1	39.23N	20.60E	10–1	2.9L			
THE	VI	30 00 38 03.4	39.24N	20.61E	3–0	3.0L			
IDC	VI	30 00 38 33.2–59	41.88N	24.38E	0	3.5,3.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=2.2km az=160.0.								
CSEM	Event type ke. Error ellipse: s-maj=5.3km s-min=2.9km az=63.0.								
ATH	Event type ke. Error ellipse: s-maj=1.5km s-min=0.7km az=259.0.								
THE	Event type ke. Error ellipse: s-maj=0.9km s-min=0.3km az=258.0.								
IDC	Error ellipse: s-maj=1079.0km s-min=60.8km az=45.0.								
CSEM	**VI**	**30 03 11 20.1**	**39.48N**	**20.85E**	**14**	**1.5L**			
ATH	VI	30 03 11 12.8	39.27N	21.11E	74–21	1.9L			**¶602486480**
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ATH	Event type ke. Error ellipse: s-maj=21.7km s-min=9.6km az=253.0.								

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ISC	**I**	**20 12 51 35.5–1.4**	**34.93N–.08**	**16.4W–.10**	**10**		**116**	**2-12**	
CSEM	I	20 12 51 38.1–.30	34.95N	16.39W	30	4.9L			**¶15947710**
CNRM	I	20 12 51 39.9	34.87N	16.23W	30	4.3			
MDD	I	20 12 51 39.8–.96	34.92N	16.29W	30	4.4b			
INMG	I	20 12 51 42.4–2.5	35.01N	16.41W	10	3.3L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=10.9km s-min=3.0km az=117.0.								
MDD	Error ellipse: s-maj=15.9km s-min=4.5km az=123.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=12.2km s-min=2.9km az=117.0.								
ISC	**III**	**04 22 37 06.1–.72**	**32.12N–.03**	**16.02W–.04**	**10**		**104**	**1-12**	
CSEM	III	04 22 37 07.9–.19	32.17N	15.83W	10	4.3b			**¶16630515**
MDD	III	04 22 37 12.8–.42	32.14N	16.27W	50	4.3b			
INMG	III	04 22 37 15.9–1.9	32.14N	16.24W	10	3.2L,3.1			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.6km az=111.0.								
MDD	Error ellipse: s-maj=6.2km s-min=4.3km az=77.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=105.0.								
ISC	**IV**	**15 15 03 52.8–.85**	**32.30N–.04**	**15.22W–.05**	**10**		**66**	**1-10**	
CSEM	IV	15 15 03 59.5–.19	32.72N	15.21W	40	4.3b			**¶16707007**
MDD	IV	15 15 04 00.9–.18	32.75N	15.21W	48–17	4.3b			
INMG	IV	15 15 04 03.3–.93	32.76N	15.20W	10	2.8L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=128.0.								
MDD	Error ellipse: s-maj=4.9km s-min=1.6km az=113.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=4.5km s-min=2.6km az=157.0.								
ISC	**V**	**08 11 07 36.4–1.2**	**32.39N–.05**	**15.80W–.07**	**10**		**32**	**1-4**	
ISCJB	V	08 11 07 37.0–1.1	32.26N–.05	15.81W–.08	10				**¶16882039**
CSEM	V	08 11 07 37.8–.55	32.47N	15.72W	20	2.3L			
MDD	V	08 11 07 37.9–1.4	32.42N	15.72W	0	3.6b			
INMG	V	08 11 07 41.4–.47	32.69N	15.56W	10	2.3L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=12.1km s-min=4.6km az=145.3.								
CSEM	Event type ke. Error ellipse: s-maj=17.3km s-min=6.9km az=49.0.								
MDD	Error ellipse: s-maj=16.6km s-min=8.8km az=43.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=4.8km s-min=4.6km az=169.0.								
ISC	**V**	**09 15 13 19.2–1.4**	**33.58N–.05**	**17.27W–.08**	**10**		**97**	**1-11**	
CSEM	V	09 15 13 20.8–.66	33.55N	17.36W	10	4.4b			**¶16501830**
MDD	V	09 15 13 23.4–1.6	33.48N	17.30W	20–17	4.4b			
INMG	V	09 15 13 25.2–.85	33.47N	17.52W	10	3.2L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=17.8km s-min=4.9km az=99.0.								
MDD	Error ellipse: s-maj=14.7km s-min=13.0km az=105.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=6.4km s-min=1.9km az=102.0.								
ISC	**V**	**11 23 23 36.1–.47**	**33.86N–.05**	**12.14W–.04**	**10**	**4.5b,3.7s**	**951**	**4-149**	
IDC	V	11 23 23 33.9–.70	33.59N	12.11W	0	5.5L,4.3			**¶16506315**
LDG	V	11 23 23 33.7–.22	33.58N	12.13W	2	4.5L,4.3			
ISCJB	V	11 23 23 34.6–.28	33.85N–.03	12.17W–.03	10	4.3b,3.7s			
MDD	V	11 23 23 34.4–1.2	33.59N	12.49W	30–17	5.4b,3.7s			
SFS	V	11 23 23 34.0	33.57N	12.40W	37	5.4L,3.7s			
NEIC	V	11 23 23 34.8	33.58N	12.45W	15	4.6b,3.7s			
PDA	V	11 23 23 36.7	33.73N	12.33W	40	5.4L,3.7s			
CNRM	V	11 23 23 36.7	33.58N	12.38W	30	4.4,3.7s			
MOS	V	11 23 23 36.2–1.1	33.89N	12.13W	14	4.7b,3.7s			
CSEM	V	11 23 23 36.9–.21	33.86N	12.16W	10	4.5b,3.7s			
IGIL	V	11 23 23 37.2	33.74N	12.35W	20	4.2L,3.7s			
INMG	V	11 23 23 40.0–1.6	33.73N	12.35W	5	4.2L,4.0			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=17.3km s-min=14.9km az=73.0.								
LDG	Event type ke. Error ellipse: s-maj=8.5km s-min=5.2km az=113.0.								
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=153.4.								
MDD	Error ellipse: s-maj=12.4km s-min=3.9km az=129.0. PRXIMO.								
SFS	Event type ke.								
NEIC	Event type se. After MDD.								
MOS	Error ellipse: s-maj=12.2km s-min=3.0km az=52.0.								
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=4.6km az=174.0.								
INMG	Event type ke. Error ellipse: s-maj=4.1km s-min=2.2km az=135.0.								
ISC	**VI**	**14 21 48 40.5–.89**	**33.73N–.06**	**15.29W–.07**	**10**		**78**	**1-10**	
CSEM	VI	14 21 48 42.8–.61	34.34N	16.13W	30	3.7b			**¶16598342**
MDD	VI	14 21 48 43.8–1.2	34.34N	16.08W	30	3.7b			
INMG	VI	14 21 48 46.7–2.4	34.38N	16.20W	31	2.7L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=31.0km s-min=5.4km az=126.0.								
MDD	Error ellipse: s-maj=26.4km s-min=5.5km az=130.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=17.8km s-min=3.9km az=120.0.								

(394) Canary Islands region.

ISC	**I**	**19 14 49 30.0–.96**	**30.17N–.03**	**15.90W–.06**	**10**		**89**	**2-15**	
CSEM	I	19 14 49 33.2–.20	30.18N	15.92W	30	4.6b			**¶15938531**
MDD	I	19 14 49 34.6–.51	30.15N	15.88W	30	4.6b			
INMG	I	19 14 49 37.2–2.7	30.15N	15.78W	10	3.6L			
CNRM	I	19 14 49 38.6	30.28N	15.61W	30	3.8			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=7.4km s-min=4.3km az=117.0.								
MDD	Error ellipse: s-maj=8.4km s-min=4.5km az=130.0. PRXIMO.								
INMG	Event type ke. Error ellipse: s-maj=6.5km s-min=3.4km az=95.0.								
MDD	**II**	**03 07 25 40.2–.99**	**29.92N**	**15.30W**	**0**	**2.5**			
CSEM	II	03 07 25 41.4	29.97N	15.28W	72	3.5b			**¶16000623**
MDD	Error ellipse: s-maj=8.9km s-min=2.9km az=177.0. PRXIMO TT-MODEL: CANARY.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
MDD	**II**	**04 16 42 23.3–.16**	**28.87N**	**15.29W**	**20**	**2.6**			
CSEM	II	04 16 42 23.1	28.84N	15.29W	45	4.0b			**¶16005335**
MDD	Error ellipse: s-maj=1.9km s-min=1.2km az=162.0. PRXIMO TT-MODEL: CANARY.								
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.								
ISC	**IV**	**16 11 59 42.1–.83**	**29.64N–.03**	**17.16W–.04**	**10**		**60**	**1-13**	
ISCJB	IV	16 11 59 41.2–.48	29.69N–.02	16.99W–.05	10				**¶16440449**
CSEM	IV	16 11 59 45.8–.27	29.60N	17.17W	60	4.0b			
MDD	IV	16 11 59 49.5–.26	29.43N	17.15W	65–6	4.0b			
INMG	IV	16 11 59 49.3–2.1	29.63N	17.19W	10	3.2L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=6.2km s-min=3.4km az=0.2.								
CSEM	Event type ke. Error ellipse: s-maj=9.4km s-min=4.8km az=101.0.								
MDD	Error ellipse: s-maj=3.6km s-min=1.5km az=172.0. PRXIMO TT-model: canary.								
INMG	Event type ke. Error ellipse: s-maj=6.2km s-min=3.5km az=93.0.								

ISC VI 19 18 39 01.3–1.9 27.3N–.10 15.65W–.04 10 26 1-2
ISCJB VI 19 18 39 01.3–1.4 27.27N–.08 15.72W–.06 10 ¶16633284
CSEM VI 19 18 39 06.7 27.39N 15.66W 47 4.0b
MDD VI 19 18 39 06.7–.71 27.39N 15.66W 47–18 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=7.1km az=178.8.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
MDD Error ellipse: s-maj=11.3km s-min=1.8km az=177.0. PRXIMO TT-MODEL: CANARY.

(395) Morocco.

ISC I 06 00 51 17.8–.93 32.38N–.05 6.30W–.05 14–8 66 0-6
ISCJB I 06 00 51 17.7–.79 32.50N–.04 6.46W–.05 10–7 ¶16176329
CSEM I 06 00 51 18.1–.34 32.38N 6.31W 10 2.9
MDD I 06 00 51 18.6–.41 32.37N 6.35W 0 3.5b
CNRM I 06 00 51 19.0 32.29N 6.24W 3 2.9
INMG I 06 00 51 20.5–1.2 32.59N 6.00W 0 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=4.3km az=38.6.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=5.6km az=125.0.
MDD Error ellipse: s-maj=8.1km s-min=2.9km az=129.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=9.6km s-min=7.9km az=138.0.
ISC I 12 16 15 22.8–.94 32.92N–.03 5.18W–.04 24–7 30 0-5
CSEM I 12 16 15 22.9–.33 32.90N 5.18W 20 2.8 ¶600888374
CNRM I 12 16 15 23.9 33.04N 5.18W 35 2.8
MDD I 12 16 15 23.7–.49 32.88N 5.20W 13–8 3.5b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=6.5km az=110.0.
MDD Error ellipse: s-maj=6.6km s-min=4.8km az=112.0. PRXIMO.
MDD I 19 20 14 45.5–1.9 33.56N 4.45W 22–12 3.5b
CNRM I 19 20 14 43.9 33.72N 4.37W 30 2.5 ¶600888479
CSEM I 19 20 14 44.8–.63 33.57N 4.47W 30 3.5b
MDD Error ellipse: s-maj=16.6km s-min=9.5km az=105.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=17.1km s-min=5.3km az=103.0.
ISC II 10 21 25 40.2–.65 34.29N–.02 2.91W–.03 11–4 115 1-63
CSEM II 10 21 25 39.8–.36 34.18N 2.71W 10 3.6 ¶16020421
MDD II 10 21 25 40.1–.73 34.23N 2.76W 0 4.0b
CNRM II 10 21 25 42.2 34.43N 2.86W 35 3.6
IDC II 10 21 25 45.7–1.4 34.68N 2.75W 0 3.8L,3.3
CRAAG II 10 21 25 47.0 34.69N 2.65W 4.1L,3.3
LDG II 10 21 25 47.5–.39 34.78N 2.65W 30 3.1L,3.3
INMG II 10 21 25 48.5–1.5 34.75N 2.59W 15–6 2.6L,3.3
SFS II 10 21 25 48.0 34.70N 2.64W 13 4.1L,3.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=5.3km az=127.0.
MDD Error ellipse: s-maj=10.7km s-min=4.9km az=115.0. PRXIMO.
IDC Error ellipse: s-maj=38.5km s-min=16.1km az=124.0.
LDG Event type ke. Error ellipse: s-maj=8.2km s-min=4.4km az=165.0.
INMG Event type ke. Error ellipse: s-maj=7.3km s-min=4.3km az=121.0.
SFS Event type ke.
ISC II 14 06 02 56.1–.47 32.05N–.03 5.90W–.02 11–2 4.4b 584 1-152
IDC II 14 06 02 54.2–.65 32.07N 5.98W 0 4.8L,4.3 ¶16022734
MOS II 14 06 02 54.5–1.1 32.04N 5.87W 10 4.5b,4.3
NEIC II 14 06 02 55.7–1.3 32.01N 5.91W 8–8 4.5b,4.3
BJI II 14 06 02 55.4 32.44N 5.96W 8 5.1s,4.9
CNRM II 14 06 02 56.1 31.95N 5.78W 0 4.3,4.9
IGIL II 14 06 02 56.2 32.07N 5.70W 1 4.1L,4.9
INMG II 14 06 02 57.4–2.8 32.19N 6.07W 0 4.2L,4.9
MDD II 14 06 02 57.6–1.1 32.02N 5.90W 11–8 4.7b,4.9
CSEM II 14 06 02 57.8–.17 32.11N 5.95W 20 4.7L,4.5b
LDG II 14 06 02 58.2–.29 32.19N 6.14W 30 3.9L,4.5b
SFS II 14 06 03 10.0 33.11N 5.83W 10 5.3L,4.5b
CRAAG II 14 06 03 10.0 33.11N 5.83W 5.3L,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=17.3km s-min=14.1km az=116.0.
MOS Error ellipse: s-maj=14.6km s-min=5.6km az=64.5.
NEIC Event type fe. Error ellipse: s-maj=7.2km s-min=6.7km az=148.0. Felt at Casablanca, Er Rachidia, Ouarzazat and Rabat.
INMG Event type ke. Error ellipse: s-maj=32.2km s-min=12.4km az=73.0.
MDD Error ellipse: s-maj=7.2km s-min=4.7km az=149.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=4.2km az=144.0.
LDG Event type ke. Error ellipse: s-maj=7.2km s-min=6.7km az=81.0.
SFS Event type ke.
ISC II 15 01 15 00.7–1.5 34.97N–.03 3.77W–.02 28–13 3.4b 210 1-68
IDC II 15 01 14 56.6–1.2 34.99N 3.91W 0 3.7L,3.4 ¶16024894
SFS II 15 01 14 59.0 34.99N 3.79W 0 3.0L,3.4
INMG II 15 01 15 00.8–1.5 34.87N 3.77W 29–18 2.8L,3.4
MDD II 15 01 15 00.1–.42 35.01N 3.80W 0 2.7,3.4
CSEM II 15 01 15 01.1–.16 35.01N 3.82W 20 3.4L,3.4
LDG II 15 01 15 01.8–.36 35.04N 3.80W 2 2.9L,3.4
CNRM II 15 01 15 02.5 34.95N 3.73W 22 3.7,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=41.5km s-min=13.7km az=102.0.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=11.9km s-min=5.4km az=173.0.
MDD Error ellipse: s-maj=4.8km s-min=3.0km az=179.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=3.1km az=135.0.
LDG Event type ke. Error ellipse: s-maj=7.3km s-min=3.4km az=168.0.
MDD II 21 12 18 48.1–.68 33.63N 6.13W 0 3.9b
CSEM II 21 12 18 46.2 32.81N 4.49W 30 3.2 ¶601020743
CNRM II 21 12 18 46.2 32.81N 4.49W 30 3.2
MDD Error ellipse: s-maj=7.2km s-min=5.6km az=97.0. PRXIMO.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 01 13 24 26.6–1.3 33.18N–.03 7.17W–.05 73–15 78 1-6
ISCJB III 01 13 24 25.7–.56 33.24N–.03 7.18W–.07 81–13 ¶16630505
CSEM III 01 13 24 26.1–.27 33.20N 7.23W 20 4.1b
INMG III 01 13 24 27.4–1.1 33.30N 7.26W 10 2.2L
MDD III 01 13 24 27.2–1.2 33.17N 7.19W 20–10 4.1b
CNRM III 01 13 24 29.2 33.15N 7.17W 30 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.4km az=8.3.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=4.9km az=84.0.
INMG Event type ke. Error ellipse: s-maj=13.3km s-min=3.7km az=130.0.
MDD Error ellipse: s-maj=9.7km s-min=4.8km az=85.0. PRXIMO.
MDD III 01 18 19 20.3–.90 32.01N 5.74W 7–7 4.0b
CSEM III 01 18 19 18.3–.46 31.99N 5.73W 5 4.0b ¶601020778
CNRM III 01 18 19 20.2 31.98N 5.73W 1 3.1
MDD Error ellipse: s-maj=7.1km s-min=4.7km az=163.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=6.7km az=158.0.
ISC III 28 08 08 35.3–1.6 34.91N–.03 3.81W–.04 3–13 81 1-5
CSEM III 28 08 08 36.5–.27 34.88N 3.75W 10 3.1 ¶601020992
MDD III 28 08 08 36.9–.53 34.87N 3.78W 0 2.2
CNRM III 28 08 08 38.3 34.82N 3.59W 11 3.1
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.4km az=141.0.
MDD Error ellipse: s-maj=6.8km s-min=4.8km az=148.0. PRXIMO.
ISC IV 06 15 37 17.1–4.2 32.5N–.20 7.5W–.10 10 35 5-6
MDD IV 06 15 37 13.8–3.7 32.27N 7.56W 0 3.7b ¶16705827
INMG IV 06 15 37 13.8–.78 32.11N 8.05W 31 2.5L
CSEM IV 06 15 37 18.1–.38 32.49N 7.47W 20 3.7b
ISC Event type ke.
MDD Error ellipse: s-maj=48.9km s-min=28.2km az=72.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=12.4km s-min=7.3km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=6.0km az=66.0.
MDD IV 11 15 41 33.6–3.0 32.26N 7.46W 0 3.8b
INMG IV 11 15 41 34.6–.88 32.17N 7.36W 31 2.5L,2.4 ¶16558870
IGIL IV 11 15 41 35.3 32.05N 7.46W 76 2.5L,2.4
CSEM IV 11 15 41 37.9–.41 32.43N 7.44W 30 3.8b,2.4
MDD Error ellipse: s-maj=46.9km s-min=25.8km az=86.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=14.0km s-min=6.4km az=88.0.
CSEM Event type ke. Error ellipse: s-maj=13.2km s-min=7.2km az=83.0.
ISC IV 22 14 11 28.6–3.6 32.7N–.20 7.62W–.08 10 111 4-7
MDD IV 22 14 11 22.3–2.3 32.32N 7.74W 0 4.2b ¶16451857
IGIL IV 22 14 11 24.5 32.26N 7.65W 25 4.2b
INMG IV 22 14 11 24.1–.87 32.46N 7.57W 0 2.7L
CSEM IV 22 14 11 26.6–.40 32.63N 7.66W 10 2.7L
ISC Event type ke.
MDD Error ellipse: s-maj=26.3km s-min=19.9km az=101.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=8.9km s-min=4.7km az=86.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=7.1km az=101.0.
MDD IV 25 22 57 11.9–3.9 34.42N 2.35W 0 3.7b ¶601021169
MDD Error ellipse: s-maj=70.3km s-min=32.9km az=84.0. PRXIMO SIN SOLUCIN.
MDD IV 28 13 04 27.1–2.7 32.32N 7.69W 0 4.3b
IGIL IV 28 13 04 27.8 32.33N 7.67W 0 4.3b ¶16476109
INMG IV 28 13 04 28.8–.94 32.26N 7.66W 31 2.9,2.5L
CSEM IV 28 13 04 31.0–.32 32.61N 7.64W 10 4.3b,2.5L
MDD Error ellipse: s-maj=38.7km s-min=23.0km az=88.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=9.4km s-min=5.2km az=89.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.6km az=86.0.
ISC IV 29 02 55 16.7–.99 32.66N–.03 5.25W–.03 30–9 44 0-6
CSEM IV 29 02 55 16.3–.26 32.64N 5.26W 15 3.0 ¶601021191
MDD IV 29 02 55 17.4–.55 32.63N 5.25W 16–6 3.5b
CNRM IV 29 02 55 17.6 32.61N 5.21W 17 3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.6km az=129.0.
MDD Error ellipse: s-maj=5.7km s-min=4.4km az=126.0. PRXIMO.
ISC IV 30 22 25 58.1–2.1 30.97N–.06 7.05W–.04 16–14 83 1-8
CSEM IV 30 22 25 57.2–.38 30.90N 7.06W 10 4.3b ¶16708431
CNRM IV 30 22 25 57.6 30.78N 7.02W 4 3.2
MDD IV 30 22 25 58.1–1.6 30.83N 7.04W 11–12 4.3b
INMG IV 30 22 25 59.6–1.2 31.07N 7.19W 0 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=4.9km az=154.0.
MDD Error ellipse: s-maj=11.3km s-min=6.4km az=163.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=17.0km s-min=8.4km az=94.0.
ISC V 01 04 50 35.6–1.5 32.72N–.06 5.39W–.05 6–11 199 0-11
MDD V 01 04 50 33.3–.56 32.50N 5.07W 2–5 4.3b ¶16485953
INMG V 01 04 50 34.6–1.5 32.57N 5.15W 10 3.0L
CNRM V 01 04 50 34.5 32.56N 4.91W 30 3.5
CSEM V 01 04 50 36.3–.27 32.67N 5.33W 15 3.5
IGIL V 01 04 50 36.1 32.50N 5.09W 24 3.0L
ISC Event type ke.
MDD Error ellipse: s-maj=5.3km s-min=4.1km az=85.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=5.4km s-min=4.3km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.7km az=127.0.
ISC V 01 05 10 45.7–1.3 32.23N–.04 5.84W–.04 11–13 139 0-10
INMG V 01 05 10 47.6–.69 32.36N 5.78W 0 2.4L ¶16485955
IGIL V 01 05 10 47.1 32.09N 6.19W 0 2.4L
MDD V 01 05 10 47.9–.79 32.18N 5.82W 18–5 4.4b
CSEM V 01 05 10 48.3–.23 32.25N 5.86W 30 3.3
CNRM V 01 05 10 49.3 32.25N 5.85W 30 3.3
ISC Event type ke.
INMG Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=84.0.
MDD Error ellipse: s-maj=6.6km s-min=5.0km az=134.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.9km az=124.0.
MDD V 02 14 15 14.4–3.6 32.29N 7.68W 0 3.6b
INMG V 02 14 15 14.6–.64 32.20N 7.76W 18–6 2.4L ¶16881924
CSEM V 02 14 15 18.1–.57 32.56N 7.63W 10 2.5L
MDD Error ellipse: s-maj=56.4km s-min=32.0km az=93.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=9.9km s-min=7.9km az=123.0.
CSEM Event type ke. Error ellipse: s-maj=15.6km s-min=10.8km az=87.0.
INMG V 03 13 05 48.5–.81 32.32N 7.66W 22–3 2.6L
IGIL V 03 13 05 45.2 32.29N 6.37W 2 2.3L ¶16489806
MDD V 03 13 05 47.0–2.6 32.35N 7.61W 0 4.0b
CSEM V 03 13 05 50.9–.22 32.64N 7.55W 10 3.1L
INMG Event type ke. Error ellipse: s-maj=8.8km s-min=3.6km az=99.0.
MDD Error ellipse: s-maj=39.6km s-min=22.7km az=91.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=4.0km az=90.0.
MDD VI 02 12 40 18.6–3.0 32.26N 7.60W 0 3.6b
INMG VI 02 12 40 20.2–.48 32.31N 7.90W 10 2.4L ¶16717029
IGIL VI 02 12 40 21.3 32.21N 7.99W 23 2.4L
CSEM VI 02 12 40 22.7–.36 32.56N 7.54W 10 3.6b
MDD Error ellipse: s-maj=37.8km s-min=26.5km az=83.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.6km s-min=3.3km az=121.0.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=6.2km az=72.0.
ISC VI 19 04 35 48.6–.86 30.65N–.04 9.25W–.05 10 98 1-11
MDD VI 19 04 35 50.3–.56 30.59N 9.14W 0 4.4b ¶601466160
CSEM VI 19 04 35 50.0–.19 30.57N 9.11W 10 3.4
CNRM VI 19 04 35 51.3 30.63N 9.41W 30 3.4
INMG VI 19 04 36 22.6–.86 32.81N 8.29W 15 2.4L
ISC Event type ke.
MDD Error ellipse: s-maj=10.9km s-min=4.4km az=116.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.7km az=118.0.
INMG Event type ke. Error ellipse: s-maj=12.6km s-min=4.2km az=82.0.

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ISC I 05 13 26 58.5–.85 36.63N–.04 5.09E–.03 13 75 0-6
CRAAG I 05 13 26 56.4 36.61N 5.09E 3.2L ¶15997095
ISCJB I 05 13 26 58.5–.40 36.73N–.04 5.04E–.05 13 3.2L
CSEM I 05 13 26 58.9–.20 36.62N 5.06E 5 3.2L
MDD I 05 13 26 59.5–.42 36.62N 5.07E 0 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=3.6km az=42.3.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=4.1km az=31.0.
MDD Error ellipse: s-maj=6.5km s-min=4.2km az=34.0. PRXIMO.
ISC I 06 00 18 30.7–.89 36.64N–.04 5.19E–.03 13 96 0-11
ISCJB I 06 00 18 30.7–.45 36.78N–.03 5.04E–.04 13 ¶15906292
CSEM I 06 00 18 31.3–.23 36.67N 5.12E 10 3.6L
MDD I 06 00 18 31.6–.42 36.63N 5.10E 0 3.9b
CRAAG I 06 00 18 32.4 36.51N 5.23E 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=42.6.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.5km az=39.0.
MDD Error ellipse: s-maj=7.4km s-min=4.2km az=45.0. PRXIMO.
ISC I 06 01 37 53.6–1.0 36.96N–.04 3.60E–.05 12 61 0-6
ISCJB I 06 01 37 53.7–.61 37.03N–.03 3.47E–.06 12 ¶15906295
CSEM I 06 01 37 53.3–.50 36.98N 3.74E 2 3.6L
CRAAG I 06 01 37 54.0 36.86N 3.60E 3.6L
MDD I 06 01 37 54.2–.75 36.96N 3.64E 0 3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=168.9.
CSEM Event type ke. Error ellipse: s-maj=15.6km s-min=6.8km az=100.0.
MDD Error ellipse: s-maj=10.2km s-min=4.9km az=87.0. PRXIMO.
ISC I 08 20 54 23.1–1.4 36.49N–.07 1.64E–.04 13–12 46 0-5
CRAAG I 08 20 54 21.5 36.38N 1.76E 3.0L ¶15910784
CSEM I 08 20 54 23.5–.32 36.46N 1.62E 10 2.3L
MDD I 08 20 54 24.2–.65 36.48N 1.63E 0 3.3b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=5.6km az=115.0.
MDD Error ellipse: s-maj=8.6km s-min=5.3km az=124.0. PRXIMO.
ISC I 08 21 11 56.9–.94 36.44N–.04 1.65E–.03 19–2 3.5b 269 0-79
CRAAG I 08 21 11 54.5 36.40N 1.72E 4.2L ¶15910785
IDC I 08 21 11 54.2–1.1 36.36N 1.63E 0 3.7,3.6L
LDG I 08 21 11 55.0–.15 36.56N 1.58E 10 3.3L,3.6L
SFS I 08 21 11 55.0 36.41N 1.76E 5 4.3L,3.6L
INMG I 08 21 11 56.3–1.3 36.42N 1.75E 14–10 2.9L,3.6L
MDD I 08 21 11 56.0–.39 36.46N 1.69E 0 4.2b,3.6L
ISCJB I 08 21 11 56.1–.50 36.52N–.02 1.59E–.02 27–5 3.5s,3.4b
CSEM I 08 21 11 56.0–.16 36.37N 1.66E 15 3.7L,3.4b
IGIL I 08 21 11 56.3 36.41N 1.77E 5 3.7L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=24.1km s-min=20.8km az=149.0.

LDG Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=140.0.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=10.2km s-min=2.9km az=139.0.
MDD Error ellipse: s-maj=4.6km s-min=3.8km az=134.0. PRXIMO.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=2.8km az=159.2.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=146.0.

ISC	**I**	**11 01 33 12.8–1.1**	**36.83N–.03**	**3.60E–.04**	**15–8**		**83**	**0-7**
CRAAG	I	11 01 33 12.7	36.84N	3.56E		2.4L		¶15917539
CSEM	I	11 01 33 14.3–.22	36.80N	3.53E	10	3.6b		
MDD	I	11 01 33 14.6–.55	36.83N	3.53E	0	3.6b		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.4km az=69.0.
MDD Error ellipse: s-maj=7.6km s-min=4.2km az=75.0. PRXIMO.

ISC	**I**	**14 06 27 51.4–1.2**	**36.57N–.04**	**3.47E–.04**	**23–9**		**49**	**0-6**
CRAAG	I	14 06 27 50.6	36.54N	3.42E		3.4L		¶15925988
ISCJB	I	14 06 27 51.2–.65	36.62N–.05	3.40E–.07	23–8	3.4L		
CSEM	I	14 06 27 51.3–.23	36.54N	3.44E	8	4.0b		
MDD	I	14 06 27 51.8–.45	36.54N	3.42E	0	4.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=7.8km az=33.1.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.7km az=76.0.
MDD Error ellipse: s-maj=7.1km s-min=4.2km az=83.0. PRXIMO.

ISC	**I**	**22 06 10 26.2–.62**	**36.36N–.03**	**2.96E–.02**	**9–5**	**3.4b**	**279**	**0-76**
LDG	I	22 06 10 25.7–.17	36.24N	2.78E	2	3.8L		¶15957581
SFS	I	22 06 10 26.0	36.09N	2.91E	0	4.4L		
IDC	I	22 06 10 26.3–1.1	36.04N	2.89E	0	3.8L,3.7		
CRAAG	I	22 06 10 27.0	36.21N	2.94E		4.1L,3.7		
MDD	I	22 06 10 27.4–.42	36.15N	2.87E	0	4.3b,3.7		
CSEM	I	22 06 10 28.3–.20	36.33N	3.00E	30	4.4W,4.1L		
CNRM	I	22 06 10 39.0	36.03N	2.85E	30	4.3,4.1L		

ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=4.0km s-min=2.0km az=152.0.
SFS Event type ke.
IDC Error ellipse: s-maj=23.9km s-min=18.0km az=150.0.
MDD Error ellipse: s-maj=6.2km s-min=3.4km az=0.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.9km az=167.0.

ISC	**I**	**24 16 08 11.9–1.4**	**36.87N–.04**	**2.37E–.03**	**26–13**	**3.3b**	**224**	**1-69**
IDC	I	24 16 08 08.9–1.1	36.78N	2.25E	0	4.2L,3.4		¶15963057
CSEM	I	24 16 08 11.9–.14	36.80N	2.33E	20	4.5L,3.4		
CRAAG	I	24 16 08 11.5	36.79N	2.36E		4.5L,3.4		
LDG	I	24 16 08 11.2–.18	36.90N	2.33E	25	3.8L,3.4		
MDD	I	24 16 08 12.7–.79	36.81N	2.35E	19–10	4.3b,3.4		
SFS	I	24 16 08 13.0	36.99N	2.23E	0	4.4L,3.4		

ISC Event type ke.
IDC Error ellipse: s-maj=26.7km s-min=23.0km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=163.0.
LDG Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=151.0.
MDD Error ellipse: s-maj=6.8km s-min=5.3km az=136.0. PRXIMO.
SFS Event type ke.

ISC	**I**	**28 10 40 52.6–1.4**	**35.98N–.05**	**4.09E–.03**	**2–9**	**3.6b**	**98**	**0-86**
IDC	I	28 10 40 52.4–.75	36.02N	3.95E	0	3.9,3.8L		¶15977707
CRAAG	I	28 10 40 52.5	35.96N	4.02E		4.2L,3.8L		
ISCJB	I	28 10 40 53.7–.71	36.08N–.04	4.04E–.03	12–5	3.6b,2.5s		
MDD	I	28 10 40 53.2–.53	35.91N	4.08E	0	4.2b,2.5s		
CSEM	I	28 10 40 53.1–.27	35.96N	4.07E	2	4.2L,2.5s		

ISC Event type ke.
IDC Error ellipse: s-maj=20.8km s-min=15.4km az=173.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=3.8km az=13.7.
MDD Error ellipse: s-maj=11.5km s-min=3.8km az=18.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=7.0.

ISC	**II**	**02 18 44 19.7–1.1**	**35.79N–.04**	**0.50E–.04**	**10**		**37**	**0-4**
ISCJB	II	02 18 44 19.4–.83	35.80N–.07	0.39E–.06	10			¶16000609
CRAAG	II	02 18 44 19.6	35.77N	0.57E		3.1L		
CSEM	II	02 18 44 19.8–.47	35.79N	0.43E	5	3.1L		
MDD	II	02 18 44 20.1–.65	35.76N	0.41E	0	3.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.5km az=25.7.
CSEM Event type ke. Error ellipse: s-maj=16.2km s-min=8.0km az=26.0.
MDD Error ellipse: s-maj=8.4km s-min=5.4km az=35.0. PRXIMO SOLUCIN POBRE.

ISC	**II**	**03 14 37 07.6–.86**	**36.68N–.04**	**4.76E–.03**	**13**		**61**	**1-6**
CRAAG	II	03 14 37 07.2	36.54N	4.68E		3.9L		¶16002365
ISCJB	II	03 14 37 08.1–.43	36.75N–.04	4.71E–.05	13	3.9L		
CSEM	II	03 14 37 08.2–.17	36.65N	4.76E	2	3.9L		
MDD	II	03 14 37 09.2–.47	36.63N	4.75E	0	3.9b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.1km az=41.8.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=31.0.
MDD Error ellipse: s-maj=7.2km s-min=4.9km az=20.0. PRXIMO.

ISC	**II**	**05 16 14 32.1–.98**	**35.94N–.04**	**1.82E–.04**	**16**		**53**	**0-5**
CRAAG	II	05 16 14 29.8	35.93N	1.82E		3.5L		¶16007308
ISCJB	II	05 16 14 32.6–.74	36.05N–.05	1.77E–.04	16	3.5L		
CSEM	II	05 16 14 32.5–.33	35.96N	1.81E	15	3.5L		
MDD	II	05 16 14 32.8–.66	35.98N	1.82E	0	3.8b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.9km az=166.4.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.3km az=164.0.
MDD Error ellipse: s-maj=7.9km s-min=5.4km az=162.0. PRXIMO.

ISC	**II**	**07 02 44 46.1–2.6**	**33.5N–.10**	**0.93E–.06**	**10**		**69**	**2-7**
CRAAG	II	07 02 44 41.0	33.09N	0.71E		3.5L		¶16007797
MDD	II	07 02 44 46.2–2.6	33.40N	0.95E	0	3.8b		
CSEM	II	07 02 44 50.0–.86	33.70N	0.90E	10	3.5L		

ISC Event type ke.
MDD Error ellipse: s-maj=25.6km s-min=16.3km az=173.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=12.0km az=174.0.

ISC	**II**	**08 08 19 12.2–.86**	**36.48N–.04**	**2.88E–.04**	**18**		**104**	**0-9**
LDG	II	08 08 19 12.9–.23	36.52N	2.69E	2	3.6L		¶16009500
CSEM	II	08 08 19 13.3–.43	36.52N	2.85E	5	3.7L		
CRAAG	II	08 08 19 13.4	36.37N	2.69E		3.7L		
ISCJB	II	08 08 19 14.1–.49	36.57N–.03	2.79E–.04	18	3.7L		
MDD	II	08 08 19 15.0–.39	36.39N	2.70E	0	4.0b		

ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=5.5km s-min=5.0km az=133.0.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=7.4km az=131.0.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=15.4.
MDD Error ellipse: s-maj=5.5km s-min=4.3km az=35.0. PRXIMO.

ISC	**II**	**08 12 48 37.4–1.0**	**36.41N–.07**	**2.76E–.06**	**18**		**18**	**0-3**
CRAAG	II	08 12 48 36.5	36.38N	2.75E		2.7L		¶16168040
CSEM	II	08 12 48 36.5	36.38N	2.75E	0	2.7L		
ISCJB	II	08 12 48 37.6–.81	36.47N–.06	2.68E–.08	18	2.7L		
MDD	II	08 12 48 37.7–5.5	36.36N	2.62E	0–53	3.2b		

ISC Event type ke.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.6km az=146.1.
MDD Error ellipse: s-maj=57.0km s-min=9.2km az=77.0. PRXIMO SIN SOLUCIN.

ISC	**II**	**09 14 09 50.9–.94**	**36.45N–.04**	**1.78E–.04**	**14**		**57**	**0-6**
ISCJB	II	09 14 09 51.2–.54	36.57N–.03	1.71E–.05	14			¶16016445
CSEM	II	09 14 09 51.8–.29	36.49N	1.73E	10	3.5L		
MDD	II	09 14 09 52.1–.59	36.52N	1.73E	0	3.8b,2.7		
CRAAG	II	09 14 09 54.9	36.23N	1.57E		3.5L,2.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=3.9km az=11.4.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.2km az=107.0.
MDD Error ellipse: s-maj=7.7km s-min=5.2km az=107.0. PRXIMO.

ISC	**II**	**09 23 20 06.6–.77**	**36.41N–.03**	**2.92E–.03**	**18**		**68**	**0-6**
CRAAG	II	09 23 20 06.4	36.43N	2.92E		3.6L		¶16017972
ISCJB	II	09 23 20 07.4–.58	36.50N–.04	2.83E–.05	18	3.6L		
CSEM	II	09 23 20 07.3–.29	36.36N	2.96E	15	3.6L		
MDD	II	09 23 20 07.6–.41	36.41N	2.85E	0	3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=5.1km az=30.8.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.2km az=126.0.
MDD Error ellipse: s-maj=6.1km s-min=4.5km az=61.0. PRXIMO.

ISC	**II**	**20 05 54 13.9–.59**	**36.82N–.04**	**5.29E–.02**	**13**		**164**	**1-11**
CRAAG	II	20 05 54 12.0	36.70N	5.23E		3.8L		¶16032968
LDG	II	20 05 54 13.4–.23	36.81N	5.20E	10	3.3L		
ISCJB	II	20 05 54 13.9–.34	36.93N–.03	5.22E–.03	13	3.3L		
CSEM	II	20 05 54 14.2–.20	36.72N	5.28E	10	3.8L		
MDD	II	20 05 54 14.5–.33	36.68N	5.21E	0	4.1b		
SFS	II	20 05 54 16.0	36.83N	5.21E	0	4.3L		

ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=5.0km s-min=4.6km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=43.9.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.6km az=34.0.
MDD Error ellipse: s-maj=6.1km s-min=3.4km az=37.0. PRXIMO.
SFS Event type ke.

ISC	**II**	**26 02 35 32.8–.53**	**36.92N–.04**	**3.60E–.02**	**12**	**3.7b**	**279**	**0-85**
IDC	II	26 02 35 30.9–.88	36.84N	3.53E	0	4.3L,3.8		¶16159038
CRAAG	II	26 02 35 31.2	36.85N	3.55E		4.0L,3.8		
NEIC	II	26 02 35 32.6–.51	36.80N	3.53E	10	4.2b,3.9L		
ISCJB	II	26 02 35 32.3–.26	37.04N–.02	3.47E–.02	12	3.7b,3.9L		
LDG	II	26 02 35 32.4–.27	37.07N	3.49E	10	3.6L,3.9L		
MDD	II	26 02 35 33.2–.36	36.91N	3.55E	0	4.2b,3.9L		
CSEM	II	26 02 35 33.1–.12	36.89N	3.57E	10	4.0L,3.9L		
SFS	II	26 02 35 36.0	36.94N	3.54E	27	4.3L,3.9L		

ISC Event type ke.
IDC Error ellipse: s-maj=23.3km s-min=16.2km az=162.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.2km az=176.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.6km az=172.4.
LDG Event type ke. Error ellipse: s-maj=6.3km s-min=3.4km az=147.0.
MDD Error ellipse: s-maj=4.9km s-min=3.9km az=84.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=3.3km s-min=3.1km az=146.0.
SFS Event type ke.

ISC	**III**	**01 06 50 46.6–.94**	**36.94N–.04**	**3.70E–.03**	**12**		**61**	**0-6**
CRAAG	III	01 06 50 45.8	36.89N	3.71E		2.9L		¶16414893
ISCJB	III	01 06 50 46.9–.54	36.99N–.03	3.61E–.05	12	2.9L		
CSEM	III	01 06 50 47.4–.20	36.88N	3.68E	10	2.9L		
MDD	III	01 06 50 51.7–2.5	37.20N	3.61E	0	4.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.3km az=169.5.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.1km az=87.0.
MDD Error ellipse: s-maj=24.0km s-min=14.9km az=147.0. PRXIMO.

ISC	**III**	**01 20 02 48.4–.91**	**36.97N–.04**	**3.58E–.04**	**12**		**62**	**0-7**
CRAAG	III	01 20 02 47.0	36.96N	3.47E		3.8L		¶16170158
ISCJB	III	01 20 02 49.4–.66	37.13N–.03	3.46E–.07	12	3.8L		
MDD	III	01 20 02 49.3–.65	36.97N	3.50E	0	4.0b		
CSEM	III	01 20 02 50.1–.34	36.96N	3.49E	20	3.8L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.3km az=0.6.
MDD Error ellipse: s-maj=10.8km s-min=5.3km az=84.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=5.8km az=91.0.

ISC	**III**	**12 12 25 50.3–.81**	**36.61N–.03**	**1.00E–.03**	**16**		**51**	**1-4**
ISCJB	III	12 12 25 52.7–.47	36.55N–.03	1.20E–.05	16			¶16410456
CSEM	III	12 12 25 53.3–.26	36.49N	1.24E	15	3.0L		
CRAAG	III	12 12 25 53.0	36.40N	1.18E		3.0L		
MDD	III	12 12 25 54.4–.80	36.47N	1.31E	18–9	3.2b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.8km az=162.9.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.9km az=73.0.
MDD Error ellipse: s-maj=9.0km s-min=7.6km az=134.0. PRXIMO.

ISC	**III**	**12 14 41 02.6–.82**	**36.15N–.05**	**6.68E–.04**	**9**	**3.1b**	**40**	**0-23**
CRAAG	III	12 14 40 59.6	36.15N	6.66E		3.7L		¶16410457
ISCJB	III	12 14 41 02.0–.51	36.19N–.06	6.62E–.04	9	3.1b		
IDC	III	12 14 41 01.1–1.7	35.93N	6.62E	0	3.9L,3.3		
CSEM	III	12 14 41 02.4–.52	36.14N	6.69E	2	3.7L,3.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.4km az=0.5.
IDC Error ellipse: s-maj=32.7km s-min=23.5km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=15.0km s-min=6.6km az=162.0.

ISC	**III**	**16 14 28 20.5–.90**	**36.67N–.04**	**2.65E–.03**	**18**		**41**	**0-5**
CRAAG	III	16 14 28 17.9	36.64N	2.57E		3.7L		¶16327733
CSEM	III	16 14 28 20.4–.20	36.67N	2.60E	5	4.1b		
ISCJB	III	16 14 28 20.4–.55	36.78N–.03	2.62E–.05	18	4.1b		
MDD	III	16 14 28 21.9–.48	36.66N	2.70E	16	4.1b		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.7km az=2.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.8km az=167.0.
MDD Error ellipse: s-maj=6.3km s-min=5.9km az=54.0. PRXIMO.

ISC	**III**	**17 18 48 57.8–1.7**	**35.3N–.10**	**2.06E–.05**	**10**		**38**	**1-5**
MDD	III	17 18 48 58.0–1.9	35.21N	2.02E	0	4.2b		¶16334562
ISCJB	III	17 18 48 58.6–1.2	35.36N–.09	1.98E–.06	10	4.2b		
CSEM	III	17 18 48 58.2–.56	35.32N	2.02E	2	3.2L		
CRAAG	III	17 18 48 58.8	35.38N	1.81E		3.2L		

ISC Event type ke.
MDD Error ellipse: s-maj=22.8km s-min=8.0km az=170.0. PRXIMO.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=7.1km az=179.9.
CSEM Event type ke. Error ellipse: s-maj=13.4km s-min=5.4km az=170.0.

ISC	**III**	**25 04 14 43.8–.85**	**36.54N–.04**	**1.50E–.04**	**14**		**153**	**0-9**
ISCJB	III	25 04 14 43.8–.37	36.62N–.02	1.40E–.03	14			¶16359653
CRAAG	III	25 04 14 44.0	36.51N	1.46E		3.5L		
MDD	III	25 04 14 45.8–1.0	36.38N	1.58E	65–19	3.8b		
CSEM	III	25 04 14 46.1–.24	36.44N	1.44E	30	3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.0km az=0.9.
MDD Error ellipse: s-maj=9.6km s-min=7.8km az=136.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=5.1km az=161.0.

ISC	**III**	**26 12 25 31.5–.90**	**37.00N–.04**	**2.77E–.04**	**12**		**57**	**0-6**
CRAAG	III	26 12 25 31.4	36.96N	2.77E		3.2L		¶16361368
ISCJB	III	26 12 25 31.6–.55	37.10N–.03	2.69E–.05	12	3.2L		
CSEM	III	26 12 25 33.1–.28	36.99N	2.78E	20	3.6b		
MDD	III	26 12 25 33.7–.47	36.98N	2.85E	20	3.6b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=150.0.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=5.8km az=63.0.
MDD Error ellipse: s-maj=10.3km s-min=4.6km az=59.0. PRXIMO.

ISC	**III**	**31 18 48 19.9–1.0**	**35.39N–.06**	**0.14E–.03**	**16**		**128**	**0-10**
CSEM	III	31 18 48 20.2–.40	35.36N	0.14E	10	4.0L		¶16401574
MDD	III	31 18 48 20.8–.42	35.42N	0.09E	0	4.3b		
SFS	III	31 18 48 21.0	35.48N	0.05E	0	4.3L		
ISCJB	III	31 18 48 21.0–.51	35.53N–.04	0.06E–.03	16	4.3L		
CRAAG	III	31 18 48 21.7	35.46N	0.24E		4.0L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=4.3km az=176.0.
MDD Error ellipse: s-maj=5.8km s-min=3.4km az=161.0. PRXIMO.
SFS Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=6.2.

ISC	**III**	**31 21 32 47.8–1.4**	**34.5N–.10**	**7.02E–.07**	**10**		**12**	**2-56**
IDC	III	31 21 32 43.5–2.9	35.01N	6.17E	0	3.1,3.1		¶16410025
CRAAG	III	31 21 32 48.6	34.60N	7.02E		3.3L,3.1		
ISCJB	III	31 21 32 48.1–1.2	34.40N–.10	7.0E–.20	10	3.1b,3.1		
CSEM	III	31 21 32 48.6	34.60N	7.02E	0	3.3L,3.1		

ISC Event type ke.
IDC Error ellipse: s-maj=79.1km s-min=27.2km az=135.0.
ISCJB Event type ke. Error ellipse: s-maj=19.9km s-min=13.9km az=9.5.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**IV**	**13 19 51 59.4–1.3**	**35.77N–.07**	**6.40E–.03**	**10**		**48**	**0-8**
ISCJB	IV	13 19 51 58.0–1.7	35.6N–.10	6.36E–.08	10			¶16491140
CSEM	IV	13 19 51 58.6–.46	35.66N	6.41E	2	3.3L		
CRAAG	IV	13 19 51 58.6	35.81N	6.27E		3.3L		
MDD	IV	13 19 52 00.1–1.4	35.71N	6.37E	0	4.5b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.1km s-min=6.5km az=158.3.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=4.2km az=160.0.

MDD Error ellipse: s-maj=14.7km s-min=5.6km az=160.0. PRXIMO.
ISC IV 14 15 17 16.7–1.1 36.20N–.05 1.64E–.03 13–8 44 0-4
CRAAG IV 14 15 17 15.2 36.15N 1.65E 3.1L ¶16427707
ISCJB IV 14 15 17 16.7–.84 36.26N–.06 1.59E–.05 14–7 3.1L
CSEM IV 14 15 17 16.6–.21 36.21N 1.62E 5 3.1L
MDD IV 14 15 17 17.3–.58 36.19N 1.61E 0 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.7km az=4.8.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=7.0.
MDD Error ellipse: s-maj=7.6km s-min=5.6km az=166.0. PRXIMO.
ISC IV 14 19 31 31.3–.86 36.59N–.05 4.73E–.03 10 128 1-9
CRAAG IV 14 19 31 28.1 36.56N 4.76E 3.6L ¶16436911
ISCJB IV 14 19 31 31.6–.41 36.76N–.03 4.71E–.04 10 3.6L
CSEM IV 14 19 31 32.3–.21 36.52N 4.75E 2 3.6L
MDD IV 14 19 31 33.1–.40 36.53N 4.74E 0 4.2b
LDG IV 14 19 31 38.6–.14 36.88N 4.44E 30 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=4.0km az=150.3.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.8km az=28.0.
MDD Error ellipse: s-maj=6.0km s-min=4.3km az=27.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=153.0.
ISC IV 19 19 33 06.4–.87 36.40N–.03 2.81E–.03 18 74 0-6
CRAAG IV 19 19 33 05.6 36.41N 2.83E 3.8L ¶16448724
CSEM IV 19 19 33 06.7–.24 36.38N 2.74E 10 3.8L
MDD IV 19 19 33 07.0–.43 36.40N 2.74E 0 4.0b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.0km az=176.0.
MDD Error ellipse: s-maj=5.7km s-min=4.6km az=32.0. PRXIMO.
ISC IV 23 13 28 51.2–1.7 35.78N–.03 1.60W–.03 28–16 219 1-10
CRAAG IV 23 13 28 46.7 36.43N 0.90W 3.0L ¶16452801
SFS IV 23 13 28 48.0 35.68N 1.56W 0 2.9L
IGIL IV 23 13 28 48.9 35.68N 1.56W 0 2.9L
MDD IV 23 13 28 48.2–.79 35.66N 1.52W 0 2.9
INMG IV 23 13 28 49.2–1.6 35.66N 1.47W 16–11 2.7L
CSEM IV 23 13 28 49.1–.23 35.69N 1.62W 10 2.9L
LDG IV 23 13 28 51.8 35.85N 1.55W 70 2.9L
CNRM IV 23 13 28 53.3 35.56N 1.51W 30 3.7
ISC Event type ke.
SFS Event type ke.
MDD Error ellipse: s-maj=8.4km s-min=4.5km az=144.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=7.7km s-min=4.3km az=142.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=158.0.
LDG Event type ke.
ISC IV 27 02 37 22.8–1.0 36.08N–.04 3.95E–.02 8–7 81 0-7
CRAAG IV 27 02 37 20.6 36.11N 3.97E 3.2L ¶16463260
CSEM IV 27 02 37 22.9–.27 36.10N 3.93E 2 3.9b
MDD IV 27 02 37 23.4–.45 36.02N 3.93E 0 3.9b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=5.3km az=10.0.
MDD Error ellipse: s-maj=9.3km s-min=3.8km az=20.0. PRXIMO.
ISC IV 30 12 44 22.7–1.2 36.99N–.05 3.04E–.07 12 38 0-6
ISCJB IV 30 12 44 22.7–.75 37.02N–.04 2.91E–.07 12 ¶16485475
CRAAG IV 30 12 44 22.6 36.92N 3.11E 3.0L
CSEM IV 30 12 44 23.1–.46 36.97N 2.97E 5 3.0L
MDD IV 30 12 44 23.3–.79 36.97N 3.05E 0 3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=5.7km az=159.3.
CSEM Event type ke. Error ellipse: s-maj=14.6km s-min=8.8km az=76.0.
MDD Error ellipse: s-maj=16.2km s-min=4.8km az=79.0. PRXIMO.
ISC V 04 14 42 08.5–.94 36.54N–.03 1.72E–.04 14 55 0-5
ISCJB V 04 14 42 08.8–.52 36.62N–.03 1.64E–.05 14 ¶16493782
CRAAG V 04 14 42 09.4 36.47N 1.69E 3.4L
CSEM V 04 14 42 09.8–.30 36.49N 1.67E 15 3.4L
MDD V 04 14 42 10.5–.85 36.50N 1.68E 13–12 4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.9km az=5.0.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=5.7km az=105.0.
MDD Error ellipse: s-maj=10.1km s-min=6.9km az=148.0. PRXIMO.
CRAAG V 04 20 34 43.0 35.15N 4.44E 3.6L
¶16558919
ISC V 06 01 10 05.8–.85 36.94N–.04 2.73E–.03 14 82 0-9
CRAAG V 06 01 10 04.9 36.84N 2.70E 3.5L ¶16497775
ISCJB V 06 01 10 06.5–.53 37.07N–.03 2.63E–.04 14 3.5L
CSEM V 06 01 10 06.0–.24 36.95N 2.69E 2 3.8b
MDD V 06 01 10 06.9–1.2 36.94N 2.76E 6–16 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=14.9.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=83.0.
MDD Error ellipse: s-maj=12.8km s-min=6.4km az=120.0. PRXIMO.
ISC V 06 03 24 46.1–.88 36.95N–.04 2.74E–.04 14 61 0-9
CRAAG V 06 03 24 45.3 36.85N 2.72E 3.3L ¶16497779
ISCJB V 06 03 24 46.3–.52 37.04N–.03 2.70E–.05 14 3.3L
CSEM V 06 03 24 46.1–.22 36.96N 2.71E 2 3.3L
MDD V 06 03 24 46.7–.46 36.98N 2.76E 0 3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=4.1km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.5km az=85.0.
MDD Error ellipse: s-maj=7.1km s-min=4.6km az=52.0. PRXIMO.
ISC V 07 16 58 54.2–.98 36.97N–.05 2.76E–.04 14 39 0-5
CRAAG V 07 16 58 53.7 36.83N 2.70E 3.1L ¶16498629
ISCJB V 07 16 58 54.5–.67 37.03N–.04 2.71E–.07 14 3.1L
CSEM V 07 16 58 55.2–.28 36.92N 2.86E 20 3.7b
MDD V 07 16 58 56.0–.60 36.92N 2.86E 20–19 3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.1km az=170.2.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.4km az=90.0.
MDD Error ellipse: s-maj=25.0km s-min=8.3km az=108.0. PRXIMO.
ISC V 07 17 12 48.7–.90 36.88N–.04 2.73E–.03 14 41 0-5
CRAAG V 07 17 12 47.9 36.93N 2.70E 3.6L ¶16498631
ISCJB V 07 17 12 48.9–.56 36.99N–.04 2.64E–.05 14 3.6L
CSEM V 07 17 12 49.0–.30 36.94N 2.66E 2 3.9b
MDD V 07 17 12 50.3–.61 36.89N 2.82E 20–19 3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.9km az=158.9.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=7.3km az=55.0.
MDD Error ellipse: s-maj=23.2km s-min=8.0km az=111.0. PRXIMO.
ISC V 13 23 02 38.8–.87 36.67N–.05 4.65E–.03 13 61 1-6
CRAAG V 13 23 02 37.1 36.58N 4.72E 3.3L ¶16557866
ISCJB V 13 23 02 39.3–.45 36.83N–.04 4.61E–.05 13 3.3L
CSEM V 13 23 02 39.1–.26 36.68N 4.61E 2 3.3L
MDD V 13 23 02 39.8–.47 36.67N 4.64E 0 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.1km az=41.2.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=5.8km az=22.0.
MDD Error ellipse: s-maj=7.4km s-min=4.8km az=24.0. PRXIMO.
ISC V 14 23 36 12.4–.79 36.92N–.03 2.72E–.03 14 145 0-29
IDC V 14 23 36 10.9–2.5 37.08N 2.69E 0 3.5L,3.2 ¶16512081
ISCJB V 14 23 36 11.9–.37 37.01N–.02 2.64E–.03 14 2.9s,2.8b
CRAAG V 14 23 36 12.0 36.85N 2.71E 3.8L,2.8b
CSEM V 14 23 36 12.5–.22 36.89N 2.68E 10 3.8L,2.8b
MDD V 14 23 36 13.3–.84 36.91N 2.75E 9–10 3.9b,2.8b
ISC Event type ke.
IDC Error ellipse: s-maj=46.5km s-min=26.5km az=24.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=3.4km az=166.3.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=5.0km az=62.0.
MDD Error ellipse: s-maj=7.8km s-min=5.8km az=115.0. PRXIMO.
ISC V 18 20 54 37.4–.92 36.93N–.05 3.40E–.04 12 45 0-6
CRAAG V 18 20 54 34.9 36.86N 3.49E 3.5L ¶16528319
ISCJB V 18 20 54 37.5–.62 36.97N–.03 3.33E–.06 12 3.5L
CSEM V 18 20 54 38.4–.20 36.82N 3.34E 15 3.5b
MDD V 18 20 54 39.1–1.2 36.84N 3.35E 12–12 3.5b

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.8km az=168.3.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=79.0.
MDD Error ellipse: s-maj=14.9km s-min=6.0km az=58.0. PRXIMO.
ISC V 24 10 44 24.9–1.9 32.96N–.09 0.15W–.06 10 85 2-8
CSEM V 24 10 44 27.5–.64 33.05N 0.30W 10 4.2L ¶16537230
MDD V 24 10 44 29.6–1.7 33.06N 0.51W 0 4.2b
CNRM V 24 10 44 36.9 33.30N 0.90W 30 4.2
CRAAG V 24 10 44 38.1 34.01N 0.22E 4.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=16.0km s-min=8.0km az=133.0.
MDD Error ellipse: s-maj=22.1km s-min=9.2km az=127.0. PRXIMO.
ISC VI 03 02 02 32.7–.98 36.55N–.05 3.30E–.03 18 39 0-5
CRAAG VI 03 02 02 31.2 36.50N 3.26E 3.3L ¶16555906
ISCJB VI 03 02 02 32.2–.62 36.58N–.04 3.25E–.06 18 3.3L
MDD VI 03 02 02 32.1–.68 36.53N 3.27E 26–8 3.6b
CSEM VI 03 02 02 32.6–.33 36.53N 3.29E 10 3.6b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.3km az=142.3.
MDD Error ellipse: s-maj=9.7km s-min=7.1km az=86.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=6.7km az=61.0.
ISC VI 04 02 23 57.6–1.3 36.25N–.06 1.71E–.04 16–8 38 0-4
CRAAG VI 04 02 23 56.5 36.21N 1.72E 2.6L ¶16556903
ISCJB VI 04 02 23 57.5–.78 36.35N–.09 1.69E–.07 15–13 2.6L
CSEM VI 04 02 23 57.4–.23 36.20N 1.69E 10 3.3b
MDD VI 04 02 23 58.0–.74 36.24N 1.69E 0 3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=6.8km az=155.7.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=4.6km az=168.0.
MDD Error ellipse: s-maj=9.6km s-min=6.3km az=156.0. PRXIMO.
ISC VI 04 22 42 36.4–1.1 36.4N–.10 7.91E–.03 10 18 0-2
ISCJB VI 04 22 42 38.0–.66 36.3N–.10 7.85E–.05 10 ¶16856236
CSEM VI 04 22 42 37.8–.16 36.30N 7.84E 8 3.1
CRAAG VI 04 22 42 38.5 36.37N 7.66E 3.6L
TUN VI 04 22 42 41.2 36.33N 8.36E 15 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=5.6km az=178.8.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=2.8km az=179.0.
TUN Event type ke.
CRAAG VI 07 22 37 31.3 36.50N 5.43E 3.5L
CSEM VI 07 22 37 31.3 36.50N 5.43E 0 3.5L ¶16856533
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 08 04 13 28.7–1.1 36.86N–.04 3.53E–.04 15–8 76 0-9
ISCJB VI 08 04 13 29.4–.77 36.96N–.05 3.47E–.06 22–12 ¶16575910
CSEM VI 08 04 13 29.6–.19 36.86N 3.51E 8 3.3L
CRAAG VI 08 04 13 29.1 36.80N 3.48E 3.3L
MDD VI 08 04 13 29.9–.57 36.88N 3.52E 0 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=44.5.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.5km az=73.0.
MDD Error ellipse: s-maj=7.9km s-min=4.1km az=74.0. PRXIMO.
ISC VI 08 22 29 57.0–.87 36.59N–.05 1.72E–.03 14 43 0-4
ISCJB VI 08 22 29 57.0–.54 36.63N–.03 1.70E–.05 14 ¶16581048
MDD VI 08 22 29 56.4–.81 36.69N 1.66E 0 3.5b
CRAAG VI 08 22 29 56.1 36.48N 1.77E 2.8L
CSEM VI 08 22 29 57.2–.32 36.60N 1.71E 10 3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=9.7.
MDD Error ellipse: s-maj=7.7km s-min=4.5km az=115.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=6.4km az=106.0.
ISC VI 09 15 49 05.7–.88 35.89N–.04 0.37W–.04 16 31 0-3
MDD VI 09 15 49 07.1–1.8 35.68N 0.24W 59–21 3.6b ¶16856714
ISCJB VI 09 15 49 08.1–.67 35.80N–.05 0.32W–.05 16 3.6b
CSEM VI 09 15 49 08.4–.33 35.65N 0.21W 30 2.9L
CRAAG VI 09 15 49 08.1 35.69N 0.13W 2.9L
ISC Event type ke.
MDD Error ellipse: s-maj=10.2km s-min=6.0km az=155.0. PRXIMO.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.2km az=25.2.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=8.3km az=23.0.
ISC VI 12 06 18 36.6–1.9 34.57N–.10 0.88W–.05 10 51 1-5
CRAAG VI 12 06 18 32.4 34.33N 0.94W 3.6L ¶16726435
ISCJB VI 12 06 18 38.4–1.1 34.74N–.06 0.89W–.05 10 3.6L
CSEM VI 12 06 18 39.0–.82 34.63N 0.86W 20 3.8b
MDD VI 12 06 18 41.4–1.9 34.77N 0.91W 42–36 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.1km az=165.4.
CSEM Event type ke. Error ellipse: s-maj=16.4km s-min=10.3km az=179.0.
MDD Error ellipse: s-maj=15.7km s-min=8.1km az=174.0. PRXIMO.
ISC VI 18 19 06 22.9–.83 36.27N–.04 2.57E–.02 18 128 0-9
CRAAG VI 18 19 06 21.0 36.27N 2.53E 3.9L ¶16632947
ISCJB VI 18 19 06 22.9–.47 36.40N–.03 2.49E–.03 18 3.9L
MDD VI 18 19 06 22.9–.41 36.26N 2.54E 0 4.0b
CSEM VI 18 19 06 22.4–.18 36.22N 2.54E 10 4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=143.7.
MDD Error ellipse: s-maj=5.8km s-min=3.7km az=5.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.0km az=165.0.
ISC VI 21 02 07 04.8–.82 36.94N–.04 2.70E–.03 14 121 0-9
CRAAG VI 21 02 07 03.8 36.89N 2.71E 3.5L ¶16638817
ISCJB VI 21 02 07 05.0–.44 37.06N–.02 2.64E–.04 14 3.5L
MDD VI 21 02 07 05.6–.36 36.94N 2.70E 0 3.7b,1.9
CSEM VI 21 02 07 05.4–.19 36.90N 2.69E 10 3.5L,1.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=22.3.
MDD Error ellipse: s-maj=5.7km s-min=3.7km az=37.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=4.4km az=38.0.
ISC VI 21 02 19 21.1–.84 36.93N–.04 2.75E–.03 14 47 0-6
CRAAG VI 21 02 19 19.2 36.92N 2.70E 3.4L ¶16638819
ISCJB VI 21 02 19 20.6–.52 37.02N–.03 2.71E–.05 14 3.4L
CSEM VI 21 02 19 20.8–.24 36.96N 2.71E 5 3.8b
MDD VI 21 02 19 21.6–.55 36.95N 2.72E 0 3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=153.7.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.8km az=55.0.
MDD Error ellipse: s-maj=10.2km s-min=4.5km az=51.0. PRXIMO.
CRAAG VI 21 02 21 52.9 36.88N 2.73E 2.6L
CSEM VI 21 02 21 52.9 36.88N 2.73E 0 2.6L ¶16726452
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 21 20 22 52.7–.92 36.61N–.05 4.75E–.03 13 35 1-6
ISCJB VI 21 20 22 53.1–.57 36.65N–.05 4.70E–.07 13 ¶16643043
CSEM VI 21 20 22 53.2–.24 36.59N 4.71E 5 3.6b
MDD VI 21 20 22 53.3–1.0 36.66N 4.70E 0 3.6b
CRAAG VI 21 20 22 53.3 36.48N 4.77E 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.8km az=44.5.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=5.3km az=37.0.
MDD Error ellipse: s-maj=14.0km s-min=9.8km az=27.0. PRXIMO.
ISC VI 25 07 35 09.5–.95 36.23N–.05 3.21E–.03 15 34 0-5
ISCJB VI 25 07 35 08.8–.67 36.25N–.05 3.15E–.07 15 ¶16681197
CRAAG VI 25 07 35 08.0 36.25N 3.21E 3.1L
MDD VI 25 07 35 09.8–.47 36.23N 3.19E 0 3.9b
CSEM VI 25 07 35 09.4–.26 36.29N 3.24E 2 3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.6km az=44.0.
MDD Error ellipse: s-maj=8.0km s-min=4.2km az=24.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=5.6km az=42.0.

(397) Tunisia.

ISC I 05 03 26 13.1–.60 36.57N–.04 9.62E–.03 10 3.5b 86 0-72
TUN I 05 03 26 08.7 36.49N 9.67E 28 3.3 ¶15905619
IDC I 05 03 26 12.4–.92 36.54N 9.94E 0 3.8L,3.5

ISCJB I 05 03 26 12.1–.31 36.62N–.03 9.63E–.04 10 3.3b,3.5
CSEM I 05 03 26 13.4–.16 36.53N 9.66E 10 3.3,3.5
ROM I 05 03 26 15.8–1.9 36.75N 9.78E 10 3.1L,3.5
LDG I 05 03 26 16.7–.48 36.68N 9.87E 10 3.3L,3.5
ISC Event type ke.
TUN Event type ke.
IDC Error ellipse: s-maj=29.4km s-min=8.9km az=120.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.9km az=163.7.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.6km az=45.0.
ROM Event type ke. Error ellipse: s-maj=32.6km s-min=7.5km az=43.0.
LDG Event type ke. Error ellipse: s-maj=10.5km s-min=5.5km az=134.0.
ISC IV 04 23 27 12.4–4.7 35.1N–.40 10.7E–.40 10 3.6b 6 4-54
IDC IV 04 23 27 13.1–6.2 35.33N 10.98E 0 3.7,3.7b **¶17199820**
ISC Event type ke.
IDC Error ellipse: s-maj=111.9km s-min=39.5km az=40.0.
ISC V 20 09 10 00.5–.00 34.39N–.06 9.60E–.08 10 10 1-74
CSEM V 20 09 09 56.3 34.38N 9.59E 37 3.1 **¶17204026**
TUN V 20 09 09 56.3 34.38N 9.59E 37 3.1
IDC V 20 09 09 59.4–2.2 34.49N 10.23E 0 3.7,3.4
ISCJB V 20 09 10 00.7–.92 34.41N–.08 9.6E–.10 10 3.3b,3.4
ISC Event type ke.
CSEM Event type ke.
TUN Event type ke.
ISCJB Event type ke.
ISC V 23 01 01 02.1–.81 37.45N–.04 10.56E–.04 10 46 1-52
CSEM V 23 01 01 01.8–.41 37.44N 10.60E 10 3.7L **¶16533394**
ISCJB V 23 01 01 01.5–.39 37.55N–.04 10.61E–.04 10 3.4b,2.6s
IDC V 23 01 01 02.8–1.4 37.33N 10.75E 0 3.6L,3.5
ROM V 23 01 01 03.0–.19 37.69N 10.77E 10 3.7L,3.5
LDG V 23 01 01 07.0–.96 37.84N 10.17E 2 2.9L,3.5
CRAAG V 23 01 01 07.0 37.85N 10.58E 4.3b,3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=12.6km s-min=9.5km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=27.3.
IDC Error ellipse: s-maj=22.4km s-min=16.1km az=155.0.
ROM Event type ke. Error ellipse: s-maj=4.7km s-min=1.4km az=48.0.
LDG Event type ke. Error ellipse: s-maj=22.7km s-min=5.5km az=127.0.
ISC V 23 02 24 05.9–.65 37.55N–.05 10.66E–.03 10 3.7b,3.2s 122 1-71
IDC V 23 02 24 04.8–.88 37.55N 10.55E 0 3.6,3.6b **¶16533398**
ISCJB V 23 02 24 05.2–.31 37.60N–.03 10.57E–.03 10 3.6b,3.3s
ROM V 23 02 24 06.4–.41 37.60N 10.67E 10 3.4L,3.3s
LDG V 23 02 24 06.6–.16 37.40N 10.52E 10 3.3L,3.3s
CSEM V 23 02 24 06.1–.25 37.56N 10.56E 10 3.4L,3.3s
CRAAG V 23 02 24 08.9 37.33N 10.56E 4.3b,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=14.1km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=4.4km s-min=3.4km az=9.2.
ROM Event type ke. Error ellipse: s-maj=8.5km s-min=3.2km az=45.0.
LDG Event type ke. Error ellipse: s-maj=4.9km s-min=3.1km az=173.0.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=4.6km az=16.0.
ISC V 23 02 26 01.0–.66 37.58N–.05 10.58E–.05 10 3.9b 73 1-83
ISCJB V 23 02 25 59.1–.35 37.59N–.04 10.50E–.03 10 3.7b **¶16552250**
IDC V 23 02 25 59.1–.79 37.49N 10.57E 0 3.9,3.8b
CSEM V 23 02 26 01.0–.45 37.65N 10.65E 10 3.5L,3.8b
ROM V 23 02 26 02.3–.45 37.82N 10.85E 10 3.5L,3.8b
LDG V 23 02 26 02.9–.15 37.38N 10.46E 30 3.3L,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=25.8.
IDC Error ellipse: s-maj=19.5km s-min=14.7km az=136.0.
CSEM Event type ke. Error ellipse: s-maj=17.1km s-min=4.6km az=26.0.
ROM Event type ke. Error ellipse: s-maj=10.6km s-min=4.0km az=38.0.
LDG Event type ke. Error ellipse: s-maj=4.1km s-min=3.8km az=105.0.

(398) Sicily.

ISC I 07 17 28 10.0–1.3 38.28N–.03 15.21E–.03 149–6 215 0-8
ISCJB I 07 17 28 10.2–.39 38.29N–.03 15.24E–.03 144–3 **¶15908885**
ROM I 07 17 28 10.1–.26 38.28N 15.19E 148–3 2.9L
CSEM I 07 17 28 10.6–.16 38.31N 15.19E 141–1 3.3L
THE I 07 17 28 14.4 37.95N 15.87E 0–6 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.5km az=44.8.
ROM Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=144.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=136.0.
THE Event type ke. Error ellipse: s-maj=10.6km s-min=1.3km az=245.0.
ROM I 25 07 42 19.9–.92 38.96N 15.75E 35–5 2.2,2.0L
CSEM I 25 07 42 19.9 38.96N 15.75E 35 2.2,2.0L **¶600306056**
ROM Event type ke. Error ellipse: s-maj=20.0km s-min=3.4km az=119.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 10 06 49 49.8–.09 38.20N 15.18E 9–1 2.6L,2.5
CSEM II 10 06 49 49.8 38.20N 15.18E 9 2.5,2.5 **¶602892330**
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM II 27 09 44 26.1–.42 38.31N 14.21E 232–7 2.9L
CSEM II 27 09 44 26.1 38.31N 14.21E 232 2.9L **¶600314394**
ROM Event type ke. Error ellipse: s-maj=18.4km s-min=3.2km az=162.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 09 04 23 50.6–1.3 37.82N–.02 15.40E–.02 15–12 125 0-11
CSEM III 09 04 23 51.2–.10 37.82N 15.41E 20 4.6L **¶16293281**
ROM III 09 04 23 51.0–.23 37.82N 15.41E 11–2 3.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.7km az=123.0.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.3km az=116.0.
ISC III 19 01 21 32.4–.62 38.45N–.04 11.94E–.04 12 3.6b 103 1-71
ROM III 19 01 21 32.4–.36 38.53N 11.94E 16–4 3.5L **¶16338025**
IDC III 19 01 21 32.1–1.0 38.38N 11.89E 0 3.6b,3.6
CSEM III 19 01 21 34.0–.27 38.43N 11.99E 20–0 3.5L,3.6
LDG III 19 01 21 39.0–.28 38.41N 11.24E 2 3.7L,3.6
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=5.1km s-min=4.6km az=7.0.
IDC Error ellipse: s-maj=24.0km s-min=17.0km az=113.0.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=4.3km az=39.0.
LDG Event type ke. Error ellipse: s-maj=7.4km s-min=4.8km az=60.0.
ROM III 30 17 51 45.7–.13 38.59N 15.50E 178–2 2.1L
CSEM III 30 17 51 45.7 38.59N 15.50E 178 2.1L **¶600315665**
ROM Event type ke. Error ellipse: s-maj=5.8km s-min=1.7km az=121.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 31 11 26 36.1–.09 38.26N 15.14E 10–0 2.0L,2.0
CSEM III 31 11 26 36.1 38.26N 15.14E 10 2.0,2.0 **¶603348001**
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=67.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM III 31 11 27 17.8–.11 38.28N 15.15E 8–1 2.7L
CSEM III 31 11 27 17.8 38.28N 15.15E 8 2.7L **¶16872637**
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 02 09 02 05.8–.86 38.46N–.04 12.35E–.03 13 62 1-8
ISCJB IV 02 09 02 03.9–.52 38.44N–.04 12.27E–.05 13 **¶16403642**
ROM IV 02 09 02 06.6–.43 38.44N 12.34E 23–5 3.4L
CSEM IV 02 09 02 07.5–.24 38.45N 12.40E 20 3.4L
LDG IV 02 09 02 10.3–1.4 38.40N 12.39E 25 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=3.7km az=37.2.
ROM Event type ke. Error ellipse: s-maj=5.8km s-min=3.7km az=86.0.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=4.6km az=37.0.
LDG Event type ke. Error ellipse: s-maj=86.2km s-min=14.5km az=39.0.
ROM IV 03 18 07 21.4–.08 38.17N 15.20E 9–0 2.3L
CSEM IV 03 18 07 21.4 38.17N 15.20E 9 2.3L **¶602212486**
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=113.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 03 18 07 51.7–.12 38.17N 15.19E 9–1 1.9L
CSEM IV 03 18 07 51.7 38.17N 15.19E 9 1.9L **¶603458268**
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.0km az=104.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 21 08 01 39.9–.11 37.68N 14.05E 37–1 2.1L
CSEM IV 21 08 01 39.9 37.68N 14.05E 37 2.1L **¶16872824**
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.9km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 21 08 02 08.8–.11 37.67N 14.00E 38 2.8L,2.7
CSEM IV 21 08 02 08.8 37.67N 14.00E 38 2.7,2.7 **¶603458266**
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=1.1km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 23 12 58 53.6–.14 37.92N 14.89E 33–1 2.2L
CSEM IV 23 12 58 53.6 37.92N 14.89E 33 2.2L **¶603458271**
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM IV 23 12 59 29.4–.13 37.90N 14.93E 33–1 2.7L
CSEM IV 23 12 59 29.4 37.90N 14.93E 33 2.7L **¶16872878**
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=134.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 25 07 44 12.2–.98 38.40N–.03 13.64E–.02 20–5 3.9b 217 0-71
ISCJB IV 25 07 44 11.5–.35 38.43N–.02 13.58E–.02 29–4 3.7b **¶16456706**
CSEM IV 25 07 44 12.2–.10 38.39N 13.61E 20 4.6L
THE IV 25 07 44 12.2 38.24N 13.76E 18–14 3.6L
ROM IV 25 07 44 12.1–.12 38.39N 13.67E 24–2 3.8L
LDG IV 25 07 44 13.7–.13 38.33N 13.73E 30 3.6L
IDC IV 25 07 44 15.6–1.9 38.42N 13.61E 38–21 3.5L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=16.2.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.4km az=25.0.
THE Event type ke. Error ellipse: s-maj=18.6km s-min=1.2km az=259.0.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.9km az=51.0.
LDG Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=39.0.
IDC Error ellipse: s-maj=23.6km s-min=17.2km az=85.0.
ROM IV 30 17 07 48.4–.21 38.55N 14.49E 15–3 2.9L
CSEM IV 30 17 07 48.4 38.55N 14.49E 15 2.9L **¶16873008**
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=1.2km az=176.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 05 15 41 52.8–.13 37.79N 14.98E 28–2 2.6L
CSEM V 05 15 41 52.8 37.79N 14.98E 28 2.6L **¶603788857**
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.1km az=102.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 05 15 42 49.9–.10 37.79N 14.95E 28–2 2.8L
CSEM V 05 15 42 49.9 37.79N 14.95E 28 2.8L **¶602385326**
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=0.7km az=101.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 05 16 45 01.1–.28 37.81N 14.96E 32–3 2.0L,1.9
CSEM V 05 16 45 01.1 37.81N 14.96E 32 1.9,1.9 **¶601643719**
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=113.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 03 28 55.3–.11 37.79N 14.96E 28–2 2.4L
CSEM V 06 03 28 55.3 37.79N 14.96E 28 2.4L **¶603788860**
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=102.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 03 29 40.6–.12 37.79N 14.98E 27–2 2.5L
CSEM V 06 03 29 40.6 37.79N 14.98E 27 2.5L **¶602385404**
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 06 15 12 35.8–.69 37.79N–.02 14.94E–.02 25–4 3.5b,3.3s 225 0-83
IDC V 06 15 12 32.3–1.3 37.71N 15.28E 0 3.7L,3.6 **¶16497798**
LDG V 06 15 12 34.3–.08 37.78N 14.96E 10 3.6L,3.6
CSEM V 06 15 12 35.5–.12 37.80N 14.89E 20 4.5L,3.6
ISCJB V 06 15 12 35.3–.21 37.80N–.02 14.95E–.03 32–2 3.4b,3.3s
PDG V 06 15 12 35.3–.49 37.80N 14.94E 22–0 4.1L,3.3s
ROM V 06 15 12 35.0–.09 37.79N 14.96E 28–1 4.2L,3.3s
BEO V 06 15 12 37.1–1.9 38.02N 14.55E 15 4.0,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=28.8km s-min=12.9km az=136.0.
LDG Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=121.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.2km az=30.0.
PDG Event type ke. Error ellipse: s-maj=0.6km s-min=0.8km az=0.0.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=114.0.
BEO Event type ke.
ROM V 06 15 17 37.2–.09 37.79N 14.96E 25–1 3.2L
CSEM V 06 15 17 37.2 37.79N 14.96E 25 3.2L **¶602385372**
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=106.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 15 18 30.8–.13 37.79N 14.95E 25–2 3.3L
CSEM V 06 15 18 30.8 37.79N 14.95E 25 3.3L **¶603793175**
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=117.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 15 38 26.1–.21 37.80N 14.96E 30–3 2.2L
CSEM V 06 15 38 26.1 37.80N 14.96E 30 2.2L **¶603788862**
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 15 38 37.8–.26 37.80N 14.97E 27–3 2.2L
CSEM V 06 15 38 37.8 37.80N 14.97E 27 2.2L **¶602385370**
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=120.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 16 53 49.2–.12 38.26N 15.12E 9–1 1.6,1.3L
CSEM V 06 16 53 49.2 38.26N 15.12E 9 1.6,1.3L **¶603793176**
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 16 54 49.0–.11 37.79N 14.97E 26–2 3.1L
CSEM V 06 16 54 49.0 37.79N 14.97E 26 3.1L **¶16873089**
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=113.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 19 28 49.8–.09 37.79N 14.96E 26–1 3.5L
CSEM V 06 19 28 49.8 37.79N 14.96E 26 3.5L **¶601643815**
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=111.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 20 01 19.6–.07 38.27N 15.13E 9–0 2.5L
CSEM V 06 20 01 19.6 38.27N 15.13E 9 2.5L **¶603788864**
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 06 20 01 44.9–.11 38.27N 15.13E 9–1 2.6L
CSEM V 06 20 01 44.9 38.27N 15.13E 9 2.6L **¶602385363**
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 11 01 45 35.6–.08 37.79N 14.96E 27–1 3.5L
CSEM V 11 01 45 35.6 37.79N 14.96E 27 3.5L **¶601644022**
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.0km az=104.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 15 02 10 23.8–.15 37.90N 14.90E 34–2 2.2L
CSEM V 15 02 10 23.8 37.90N 14.90E 34 2.2L **¶603793180**
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=148.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 15 02 10 47.0–.13 37.90N 14.89E 33–2 2.4L
CSEM V 15 02 10 47.0 37.90N 14.89E 33 2.4L **¶16873180**
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 20 22 25 39.4–.39 38.38N 15.52E 134–5 1.8L
CSEM V 20 22 25 39.4 38.38N 15.52E 134 1.8L **¶601644527**
ROM Event type ke. Error ellipse: s-maj=8.9km s-min=5.0km az=128.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 21 10 02 10.2–.21 38.43N 13.66E 5 3.6L
CSEM VI 21 10 02 10.2 38.43N 13.66E 5 3.6L **¶16863536**
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=2.4km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 23 22 02 47.6–.83 38.06N–.02 14.81E–.02 9–5 4.2b,3.9s 930 0-127
NEIC VI 23 22 02 46.0 38.06N 14.76E 7 4.3b,4.1L **¶16649785**
ROM VI 23 22 02 46.7–.17 38.06N 14.78E 7–1 4.4L,4.1L
MOS VI 23 22 02 46.8–.93 38.10N 14.85E 14 4.6b,4.1L

CRAAG VI 23 22 02 46.0 38.06N 14.76E 4.2b,4.1L
LDG VI 23 22 02 46.5–.11 38.04N 14.83E 10 3.9L,4.1L
PDG VI 23 22 02 47.6–.80 38.03N 14.84E 20–1 4.2L,4.1L
CSEM VI 23 22 02 48.3–.08 38.06N 14.88E 10 5.2L,4.4b
IDC VI 23 22 02 49.3–1.8 38.07N 14.73E 22–14 4.1,4.1
THE VI 23 22 02 51.2 38.06N 15.01E 33–74 4.5L,4.1
ISC Event type fe.
NEIC Event type fe. Felt in the Catania-Messina-Palermo area. After ROM.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=137.0.
MOS Error ellipse: s-maj=6.1km s-min=3.3km az=64.2.
LDG Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=29.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=0.9km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.7km az=6.0.
IDC Error ellipse: s-maj=11.7km s-min=10.0km az=113.0.
THE Event type ke. Error ellipse: s-maj=74.0km s-min=1.6km az=0.0.
ROM VI 24 08 33 56.9–.22 38.37N 13.58E 10 2.0,1.8L
CSEM VI 24 08 33 56.9 38.37N 13.58E 10 2.0,1.8L **¶603482803**
ROM Event type ke. Error ellipse: s-maj=3.3km s-min=2.1km az=47.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 24 08 34 08.5–.10 38.02N 14.76E 8–1 2.0,1.6L
CSEM VI 24 08 34 08.5 38.02N 14.76E 8 2.0,1.6L **¶602729525**
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=152.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 24 14 37 36.8–.10 38.04N 14.75E 5–1 2.9L
CSEM VI 24 14 37 36.8 38.04N 14.75E 5 2.9L **¶602729504**
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=136.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 24 14 37 49.7–.19 38.06N 14.74E 3–2 2.8L
CSEM VI 24 14 37 49.7 38.06N 14.74E 3 2.8L **¶603801080**
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=1.2km az=162.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 24 17 35 01.8–.09 38.04N 14.74E 8–1 2.2L
CSEM VI 24 17 35 01.8 38.04N 14.74E 8 2.2L **¶602729501**
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.0km az=174.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 24 17 35 21.3–.11 38.04N 14.74E 6–1 1.5L
CSEM VI 24 17 35 21.3 38.04N 14.74E 6 1.5L **¶603482804**
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 27 21 15 19.1–.06 38.02N 14.74E 9–0 2.2,2.1L
CSEM VI 27 21 15 19.1 38.02N 14.74E 9 2.2,2.1L **¶603731180**
ROM Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 27 22 13 45.1–.82 38.04N–.02 14.73E–.02 11–5 99 0-8
ISCJB VI 27 22 13 45.3–.29 38.06N–.03 14.73E–.03 15–4 **¶16863569**
ROM VI 27 22 13 45.2–.09 38.04N 14.74E 8–1 3.5L
CSEM VI 27 22 13 45.3–.12 38.03N 14.74E 10 4.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=150.4.
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=140.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.1km az=136.0.
ROM VI 27 22 19 22.6–.09 38.02N 14.72E 9–1 1.9L
CSEM VI 27 22 19 22.6 38.02N 14.72E 9 1.9L **¶16863570**
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.6km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 27 22 19 38.1–.11 38.04N 14.75E 7–1 2.5L
CSEM VI 27 22 19 38.1 38.04N 14.75E 7 2.5L **¶603798865**
ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM VI 29 19 33 35.7–.07 38.03N 14.73E 11–0 1.5,1.1L
¶601655325
ROM Event type ke. Error ellipse: s-maj=0.4km s-min=0.2km az=169.0.

(399) Ionian Sea.

ISC I 07 16 55 01.5–1.4 37.09N–.04 20.88E–.04 7–10 104 1-3
THE I 07 16 55 01.5 37.06N 20.89E 8–1 2.7L **¶16868822**
CSEM I 07 16 55 02.1–.47 37.10N 20.94E 0–1 3.5
ATH I 07 16 55 02.3 37.11N 20.91E 8–1 3.5
ISC Event type ke.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=228.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.3km az=48.0.
ATH Error ellipse: s-maj=0.8km s-min=0.8km az=-1.0.
ISC I 11 03 57 20.9–.99 37.94N–.03 20.98E–.02 11–8 75 0-2
ISCJB I 11 03 57 20.6–.60 37.94N–.03 21.00E–.03 3–5 **¶16868919**
ATH I 11 03 57 20.4 37.91N 20.97E 5–3 3.0
CSEM I 11 03 57 20.5–.21 37.93N 20.97E 10 2.3L
THE I 11 03 57 21.1 37.98N 21.00E 16–1 2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=3.4km az=28.1.
ATH Error ellipse: s-maj=0.7km s-min=0.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=45.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=5.0.
ISC I 14 21 51 04.3–1.5 37.74N–.04 19.73E–.03 8–9 3.8b 301 1-98
IDC I 14 21 51 01.7–1.1 37.62N 19.75E 0 3.7,3.7b **¶16014122**
ATH I 14 21 51 02.3 37.70N 19.68E 11–1 3.4L,3.7b
ISCJB I 14 21 51 03.2–.67 37.81N–.03 19.62E–.02 9–4 4.7s,3.6b
CSEM I 14 21 51 04.6–.24 37.78N 19.78E 2 3.4L,3.6b
THE I 14 21 51 04.9 37.71N 19.79E 0–2 3.4L,3.6b
PDG I 14 21 51 07.8–.71 38.04N 19.86E 13–2 3.5L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=19.0km s-min=17.2km az=129.0.
ATH Error ellipse: s-maj=1.6km s-min=1.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=29.3.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=2.6km az=30.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=249.0.
PDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=0.0.
ISC I 14 21 52 34.4–1.2 37.65N–.05 19.74E–.06 12 3.6b 63 1-46
ATH I 14 21 52 32.9 37.70N 19.63E 4–2 3.7 **¶17190216**
CSEM I 14 21 52 32.9 37.70N 19.64E 4 3.7
ISCJB I 14 21 52 34.9–.85 37.60N–.04 19.78E–.07 12 3.4b
IDC I 14 21 52 37.3–5.0 37.98N 20.42E 0 3.6,3.5
ISC Event type ke.
ATH Error ellipse: s-maj=1.9km s-min=2.4km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=6.4km az=4.7.
IDC Error ellipse: s-maj=114.3km s-min=24.8km az=51.0.
ATH I 15 10 18 12.4 37.95N 20.48E 13–2 3.1
CSEM I 15 10 18 12.4 37.95N 20.48E 13 3.1 **¶600871624**
ATH Error ellipse: s-maj=1.3km s-min=1.7km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 18 09 36 51.6–1.7 37.43N–.04 20.38E–.05 1–10 148 1-4
ATH I 18 09 36 51.7 37.42N 20.34E 17–1 3.5 **¶16871441**
CSEM I 18 09 36 53.1–.39 37.44N 20.41E 10 2.5L
THE I 18 09 36 53.8 37.50N 20.48E 0–2 2.5L
ISC Event type ke.
ATH Error ellipse: s-maj=1.6km s-min=1.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=4.2km az=54.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=235.0.
ISC I 27 10 56 47.5–1.6 37.61N–.04 20.38E–.05 6–10 92 1-6
CSEM I 27 10 56 47.2–.41 37.61N 20.38E 2 3.1L **¶16871599**
THE I 27 10 56 48.4 37.64N 20.40E 3–1 3.1L
ATH I 27 10 56 48.1 37.63N 20.40E 6–3 3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=3.9km az=59.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=1.1km az=76.0.
ATH Error ellipse: s-maj=1.0km s-min=1.5km az=-1.0.
ISC I 31 11 30 50.2–1.6 37.34N–.04 20.35E–.03 8–10 3.9b 149 1-80
ISCJB I 31 11 30 47.9–1.0 37.30N–.03 20.22E–.03 4–7 3.7b **¶16019286**
CSEM I 31 11 30 48.3–.21 37.24N 20.22E 2 3.7L
THE I 31 11 30 50.5 37.27N 20.39E 0–0 3.7L
IDC I 31 11 30 56.1–1.4 37.44N 20.45E 58–15 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=7.5.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.9km az=33.0.
THE Event type ke. Error ellipse: s-maj=1.2km s-min=0.4km az=228.0.
IDC Error ellipse: s-maj=14.1km s-min=9.2km az=10.0.
ATH II 04 02 16 12.4 37.19N 20.76E 13–2 2.4L
CSEM II 04 02 16 12.4 37.19N 20.76E 13 2.4L **¶600896139**
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.6km az=49.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 06 15 49 10.1–2.1 37.28N–.05 19.89E–.06 16–13 101 1-8
CSEM II 06 15 49 08.8–.44 37.25N 19.86E 2 2.8L **¶16871781**
THE II 06 15 49 08.5 37.24N 19.78E 0–3 3.1L
ATH II 06 15 49 08.6 37.33N 19.89E 9–1 2.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.4km s-min=4.8km az=41.0.
THE Event type ke. Error ellipse: s-maj=5.5km s-min=1.4km az=239.0.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.6km az=66.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 06 23 50 54.7–1.5 37.60N–.03 20.38E–.04 2–10 152 1-8
ISCJB II 06 23 50 53.8–.93 37.63N–.03 20.28E–.05 2–6 **¶16871794**
CSEM II 06 23 50 54.9–.29 37.63N 20.34E 2 3.2L
ATH II 06 23 50 55.3 37.64N 20.42E 18–1 3.2L
THE II 06 23 50 56.0 37.63N 20.41E 0–2 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.7km s-min=4.9km az=138.3.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=46.0.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=60.0. Analyst: A.Plessa ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=1.1km az=240.0.
ISC II 07 07 53 00.0–1.2 37.45N–.02 20.81E–.03 5–9 3.6b 207 1-46
ATH II 07 07 52 60.0 37.44N 20.77E 14–0 3.2L **¶16397780**
CSEM II 07 07 53 00.5–.25 37.44N 20.80E 2 3.6L
THE II 07 07 53 01.0 37.47N 20.85E 0–1 3.3L
IDC II 07 07 53 01.8–7.0 37.92N 21.45E 0 3.5,3.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=1.3km s-min=0.6km az=48.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.0km az=49.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=239.0.
IDC Error ellipse: s-maj=135.2km s-min=29.3km az=63.0.
ATH II 08 09 00 56.9 37.58N 20.34E 14–1 2.3L
CSEM II 08 09 00 57.4–.59 37.60N 20.38E 2 2.8L **¶16871850**
THE II 08 09 00 57.6 37.61N 20.38E 3–1 2.8L
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.4km az=62.0. Analyst: SpLiakopoulos ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=10.1km s-min=5.1km az=63.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=1.3km az=246.0.
ISC II 08 20 16 12.4–2.2 37.62N–.06 20.41E–.09 4–11 44 1-2
CSEM II 08 20 16 12.1–.31 37.63N 20.36E 2 2.5L **¶16871865**
ATH II 08 20 16 12.7 37.64N 20.42E 18–4 2.4L
THE II 08 20 16 13.8 37.69N 20.43E 2–2 2.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=2.4km az=67.0.
ATH Event type ke. Error ellipse: s-maj=6.5km s-min=2.0km az=55.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.0km s-min=0.5km az=234.0.
ISC II 11 17 45 31.5–1.2 38.96N–.03 19.79E–.04 30–11 82 1-7
CSEM II 11 17 45 31.6–.25 38.94N 19.83E 20 2.7L **¶16871919**
THE II 11 17 45 31.9 38.94N 19.90E 15–0 2.7L
ATH II 11 17 45 31.1 38.93N 19.88E 32–1 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=2.9km az=67.0.
THE Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=61.0.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=68.0. Analyst: Agalos ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISC II 16 03 20 10.1–.65 37.86N–.05 19.85E–.03 12 3.7b 135 1-70
IDC II 16 03 20 07.8–.92 37.88N 20.02E 0 3.7,3.7b **¶16168076**
ISCJB II 16 03 20 08.9–.43 37.86N–.03 19.74E–.03 12 3.7b,3.7b
THE II 16 03 20 08.1 37.77N 19.77E 0–4 3.4L,3.7b
TIR II 16 03 20 09.1–5.9 38.14N 21.31E 0–999 3.4L,3.7b
ATH II 16 03 20 10.9 37.85N 19.93E 20–4 2.9L,3.7b
PDG II 16 03 20 11.3–.70 37.95N 19.90E 13–2 3.5L,3.7b
CSEM II 16 03 20 11.1–.42 37.95N 19.93E 2 3.4L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=18.0km s-min=15.9km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.4km az=39.1.
THE Event type ke. Error ellipse: s-maj=5.3km s-min=2.2km az=274.0.
TIR Error ellipse: s-maj=999.9km s-min=523.6km az=-1.0.
ATH Event type ke. Error ellipse: s-maj=8.1km s-min=2.7km az=46.0. Analyst: A. Ganas ML Amplitudes are expressed in micrometres All distances are expressed in km.
PDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.6km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.2km az=34.0.
ISC II 19 11 14 00.4–1.6 37.72N–.04 19.77E–.05 3–10 104 1-8
CSEM II 19 11 14 03.1–.36 37.76N 19.87E 2 3.2L **¶16872068**
ATH II 19 11 14 03.1 37.76N 19.93E 14–1 2.9L
THE II 19 11 14 04.2 37.78N 19.96E 0–2 3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=4.9km az=37.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=66.0. Analyst: K.L. ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=1.8km az=266.0.
ISC II 20 15 11 30.2–1.1 37.86N–.03 19.90E–.02 15–7 4.2b,3.8s 594 1-80
ATH II 20 15 11 25.5 37.71N 19.67E 5–1 3.9L,3.8s **¶16057008**
BJI II 20 15 11 26.8 37.92N 19.79E 12 5.0b,4.7b
IDC II 20 15 11 28.0–.72 37.86N 20.12E 0 4.1,4.0
ROM II 20 15 11 29.0–.40 37.70N 20.11E 20 4.2L,4.0
PDG II 20 15 11 29.6–.49 37.85N 19.90E 12–1 4.2L,4.0
TIR II 20 15 11 30.3 38.26N 19.36E 0 4.1L,4.0
NEIC II 20 15 11 30.3–.32 37.83N 19.95E 10 4.1L,4.0
CSEM II 20 15 11 30.8–.09 37.86N 19.91E 10 4.4b,4.0
THE II 20 15 11 30.1 37.82N 19.91E 0–1 4.3L,4.0
ISCJB II 20 15 11 30.8–.50 37.88N–.02 19.87E–.01 23–4 4.2b,3.8s
ISC Event type ke.
ATH Event type ke. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
ROM Event type ke.
PDG Event type ke.
NEIC Event type se.
CSEM Event type ke.
THE Event type ke.
ISCJB Event type ke.
ISC II 20 15 17 48.9–2.4 37.59N–.08 19.82E–.08 1–12 43 1-6
CSEM II 20 15 17 49.9 37.60N 19.88E 13 2.6L **¶600896691**
ATH II 20 15 17 49.9 37.60N 19.88E 13–1 2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=55.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
ATH II 20 15 30 30.2 37.68N 19.78E 14–3 2.4L
CSEM II 20 15 30 30.2 37.68N 19.78E 14 2.4L **¶600896692**
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.5km az=23.0. Analyst: A.ANDREOU ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 21 00 47 36.8–1.6 37.66N–.04 19.68E–.05 10–9 3.5b 126 1-46
ATH II 21 00 47 33.7 37.55N 19.55E 4–2 3.2L **¶16398636**
ISCJB II 21 00 47 35.9–1.0 37.65N–.04 19.59E–.04 4–8 3.5b
IDC II 21 00 47 36.5–1.5 37.76N 19.94E 0 3.6,3.5
CSEM II 21 00 47 37.2–.32 37.63N 19.69E 2 2.9L,3.5
THE II 21 00 47 38.0 37.67N 19.72E 0–2 2.9L,3.5
ISC Event type ke.

ATH Event type ke. Error ellipse: s-maj=5.1km s-min=2.0km az=64.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.4km az=24.3.
IDC Error ellipse: s-maj=35.3km s-min=24.8km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.0km az=32.0.
THE Event type ke. Error ellipse: s-maj=3.6km s-min=1.2km az=234.0.

ISC	**II**	**22 06 52 46.9–2.0**	**37.78N–.05**	**19.81E–.07**	**3–11**		**81**	**1-5**
CSEM	II	22 06 52 49.9–.50	37.80N	19.98E	2	3.2L		¶16872125
ATH	II	22 06 52 49.1	37.75N	19.99E	12–2	2.9L		
THE	II	22 06 52 51.5	37.81N	20.09E	0–4	3.2L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=6.5km az=91.0.
ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.5km az=55.0. Analyst: M.Papanikolaou ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=4.5km s-min=1.7km az=205.0.

ISC	**II**	**22 16 37 39.7–1.5**	**37.77N–.04**	**19.76E–.04**	**2–9**	**3.6b**	**178**	**1-61**
ATH	II	22 16 37 37.8	37.71N	19.65E	6–1	3.5L		¶16398761
CSEM	II	22 16 37 42.2–.33	37.83N	19.88E	2	3.6L		
THE	II	22 16 37 43.0	37.82N	19.97E	0–2	3.6L		
IDC	II	22 16 37 47.7–3.3	37.90N	19.94E	55–34	3.5,3.4L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.5km s-min=1.5km az=63.0. ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.1km az=32.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=1.2km az=226.0.
IDC Error ellipse: s-maj=30.2km s-min=24.6km az=93.0.

ATH	**III**	**17 03 36 29.6**	**37.94N**	**20.08E**	**19–2**	**2.5L**		
CSEM	III	17 03 36 29.6	37.94N	20.08E	19	2.5L		¶600897371

ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.4km az=61.0. Analyst: F.Halaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ATH	**IV**	**06 18 49 56.1**	**37.44N**	**20.54E**	**28–2**	**1.8L**		
CSEM	IV	06 18 49 56.1	37.44N	20.54E	28	1.8L		¶600915978

ATH Event type ke. Error ellipse: s-maj=3.0km s-min=1.2km az=47.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**IV**	**08 16 39 56.6–1.8**	**37.33N–.05**	**20.45E–.06**	**12–9**	**3.5b**	**81**	**1-46**
ISCJB	IV	08 16 39 55.6–1.3	37.29N–.04	20.37E–.05	3–8	3.3b		¶16706073
ATH	IV	08 16 39 55.3	37.27N	20.36E	18–1	3.2L		
IDC	IV	08 16 39 56.0–1.4	37.50N	20.62E	0	3.5,3.5		
CSEM	IV	08 16 39 56.9–.45	37.31N	20.45E	2	3.3L,3.5		
THE	IV	08 16 39 58.3	37.37N	20.51E	0–1	3.3L,3.5		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.8km az=153.0.
ATH Event type ke. Error ellipse: s-maj=3.9km s-min=1.3km az=53.0.
IDC Error ellipse: s-maj=45.3km s-min=24.7km az=123.0.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=3.8km az=57.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=222.0.

ISC	**IV**	**26 04 24 25.6–.92**	**37.51N–.03**	**20.90E–.03**	**16–6**		**177**	**0-8**
ISCJB	IV	26 04 24 24.0–.64	37.45N–.03	20.77E–.03	16–4			¶16881818
ATH	IV	26 04 24 24.6	37.51N	20.89E	22–1	3.3L		
CSEM	IV	26 04 24 24.9–.21	37.50N	20.87E	10	3.3L		
THE	IV	26 04 24 24.5	37.51N	20.88E	0–1	3.4L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.3km az=136.7.
ATH Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=43.0.
CSEM Event type ke. Error ellipse: s-maj=4.6km s-min=2.8km az=46.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.5km az=234.0.

ATH	**V**	**01 09 04 39.2**	**37.08N**	**20.77E**	**21–1**	**2.5L**		
CSEM	V	01 09 04 39.2	37.08N	20.77E	21	2.5L		¶600916644

ATH Event type ke. Error ellipse: s-maj=2.9km s-min=0.9km az=46.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**V**	**02 10 17 28.7–1.4**	**37.79N–.03**	**19.92E–.04**	**6–9**	**3.9b**	**190**	**1-46**
ATH	V	02 10 17 24.8	37.66N	19.73E	5–1	3.6L		¶16708589
ISCJB	V	02 10 17 26.4–.77	37.74N–.03	19.84E–.03	1–5	3.8b		
BEO	V	02 10 17 27.5–1.1	37.70N	19.72E	0	3.5		
IDC	V	02 10 17 27.4–1.5	37.80N	20.24E	0	3.8,3.8		
CSEM	V	02 10 17 28.2–.31	37.73N	19.93E	2	3.5L,3.8		
THE	V	02 10 17 29.6	37.75N	20.02E	2–2	3.5L,3.8		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=1.4km az=91.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=13.3.
BEO Event type ke.
IDC Error ellipse: s-maj=33.3km s-min=27.4km az=115.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=3.9km az=29.0.
THE Event type ke. Error ellipse: s-maj=2.3km s-min=1.1km az=239.0.

ISC	**V**	**03 22 24 52.1–1.1**	**37.90N–.03**	**16.70E–.03**	**61–10**		**234**	**1-14**
ISCJB	V	03 22 24 51.5–.31	37.96N–.02	16.75E–.03	73–6			¶16491552
PDG	V	03 22 24 51.0–.52	37.91N	16.57E	82–3	3.8L		
ROM	V	03 22 24 52.1–.16	37.78N	16.68E	38–1	3.3L		
CSEM	V	03 22 24 52.7–.15	37.94N	16.75E	30	3.3L		
THE	V	03 22 24 55.5	38.00N	16.98E	28–3	3.5L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.2km az=144.6.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=1.6km az=0.0.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.4km az=166.0.
THE Event type ke. Error ellipse: s-maj=4.0km s-min=0.7km az=225.0.

ISC	**V**	**07 23 54 31.7–1.3**	**37.12N–.03**	**20.77E–.03**	**13–8**	**3.6b**	**320**	**1-74**
PDG	V	07 23 54 32.7–.63	37.17N	20.77E	16–1	3.7L		¶16553237
CSEM	V	07 23 54 32.6–.24	37.13N	20.77E	10	3.3L		
THE	V	07 23 54 33.0	37.14N	20.83E	0–4	3.5L		
ATH	V	07 23 54 33.1	37.16N	20.86E	20–1	3.3L		
IDC	V	07 23 54 35.7–1.9	37.11N	20.91E	46–22	3.5,3.5		

ISC Event type ke.
PDG Event type ke. Error ellipse: s-maj=1.4km s-min=1.5km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=2.7km az=35.0.
THE Event type ke. Error ellipse: s-maj=4.7km s-min=1.1km az=223.0.
ATH Event type ke. Error ellipse: s-maj=2.7km s-min=0.8km az=47.0.
IDC Error ellipse: s-maj=30.5km s-min=20.7km az=13.0.

ISC	**V**	**08 19 29 49.8–1.5**	**37.10N–.04**	**20.76E–.04**	**4–11**		**159**	**1-8**
ISCJB	V	08 19 29 49.2–.91	37.05N–.04	20.71E–.04	1–6			¶16882026
CSEM	V	08 19 29 50.0–.35	37.08N	20.72E	2	3.5L		
ATH	V	08 19 29 50.7	37.11N	20.78E	18–1	3.5L		
THE	V	08 19 29 51.6	37.11N	20.81E	1–3	3.7L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=4.1km az=39.2.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.9km az=31.0.
ATH Event type ke. Error ellipse: s-maj=2.1km s-min=0.8km az=54.0.
THE Event type ke. Error ellipse: s-maj=3.3km s-min=1.1km az=223.0.

ISC	**V**	**09 04 34 49.6–1.6**	**37.57N–.04**	**20.32E–.05**	**10–9**		**72**	**0-6**
ATH	V	09 04 34 49.2	37.54N	20.29E	11–3	2.9L		¶16882047
CSEM	V	09 04 34 49.0–.40	37.53N	20.27E	2	2.9L		
THE	V	09 04 34 50.2	37.56N	20.34E	4–0	2.9L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.0km s-min=1.6km az=68.0.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.7km az=63.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=55.0.

ISC	**V**	**15 16 04 46.3–1.3**	**37.37N–.03**	**20.21E–.04**	**13–8**	**3.6b**	**152**	**1-61**
IDC	V	15 16 04 45.6–1.2	37.56N	20.21E	0	3.6,3.5		¶16709956
ISCJB	V	15 16 04 46.3–.95	37.33N–.03	20.14E–.04	15–7	3.5b,3.2s		
CSEM	V	15 16 04 46.6–.32	37.36N	20.26E	0–1	3.3L,3.2s		
ATH	V	15 16 04 46.9	37.39N	20.23E	14–1	3.3L,3.2s		
THE	V	15 16 04 48.1	37.39N	20.34E	1–1	3.3L,3.2s		

ISC Event type ke.
IDC Error ellipse: s-maj=22.8km s-min=18.7km az=79.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=135.5.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.1km az=54.0.
ATH Event type ke. Error ellipse: s-maj=3.6km s-min=1.3km az=61.0.
THE Event type ke. Error ellipse: s-maj=1.5km s-min=0.5km az=235.0.

ATH	**V**	**15 20 37 47.1**	**37.61N**	**20.39E**	**24–2**	**1.5L**		
CSEM	V	15 20 37 47.2	37.61N	20.39E	24	1.5L		¶600917007

ATH Event type ke. Error ellipse: s-maj=5.2km s-min=1.4km az=62.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**V**	**16 08 14 54.9–1.4**	**37.33N–.03**	**20.18E–.03**	**0–9**	**3.9b,2.8s**	**245**	**1-74**
IDC	V	16 08 14 54.8–.88	37.42N	20.45E	0	3.8,3.7		¶16560080
ATH	V	16 08 14 55.5	37.36N	20.18E	13–0	3.4L,3.7		
CSEM	V	16 08 14 55.8–.26	37.35N	20.18E	2	3.6L,3.7		
THE	V	16 08 14 57.6	37.41N	20.30E	0–1	3.6L,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=20.9km s-min=16.2km az=117.0.
ATH Event type ke. Error ellipse: s-maj=1.6km s-min=0.7km az=54.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=51.0.
THE Event type ke. Error ellipse: s-maj=1.3km s-min=0.5km az=194.0.

ISC	**V**	**18 10 54 10.1–2.0**	**37.40N–.05**	**20.27E–.07**	**13–12**		**74**	**1-3**
ATH	V	18 10 54 09.7	37.38N	20.24E	15–1	2.1L		¶16882272
CSEM	V	18 10 54 10.0–.38	37.38N	20.24E	2	2.4L		
THE	V	18 10 54 12.9	37.56N	20.34E	0–3	2.4L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=1.1km az=57.0.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=4.0km az=66.0.
THE Event type ke. Error ellipse: s-maj=4.3km s-min=1.4km az=238.0.

ISC	**VI**	**11 12 34 09.5–.90**	**37.93N–.02**	**20.92E–.02**	**18–2**		**73**	**0-2**
ATH	VI	11 12 34 08.9	37.93N	20.90E	21–2	1.6L		¶16882988
THE	VI	11 12 34 08.1	37.96N	20.92E	28–2	2.1L		
ISCJB	VI	11 12 34 09.5–.49	37.93N–.02	20.91E–.03	8–3	2.1L		
CSEM	VI	11 12 34 09.0–.32	37.91N	20.92E	10	2.1L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=254.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.8km az=280.0.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=142.6.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.9km az=55.0.

ATH	**VI**	**20 21 29 30.5**	**37.64N**	**20.58E**	**11–4**	**1.7L**		
CSEM	VI	20 21 29 30.5	37.64N	20.58E	11	1.7L		¶602547091

ATH Event type ke. Error ellipse: s-maj=4.5km s-min=1.1km az=64.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**VI**	**24 05 06 33.3–.79**	**37.61N–.02**	**20.96E–.02**	**17–5**	**3.8b**	**203**	**0-46**
IDC	VI	24 05 06 30.9–1.2	37.67N	20.99E	0	3.9b,3.7		¶16731344
ISCJB	VI	24 05 06 32.1–.60	37.57N–.02	20.85E–.03	10–4	3.8b,3.7		
THE	VI	24 05 06 33.4	37.61N	20.98E	0–1	3.4L,3.7		
ATH	VI	24 05 06 33.3	37.62N	20.99E	14–1	3.4L,3.7		
CSEM	VI	24 05 06 33.1–.25	37.60N	20.95E	2	3.4L,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=20.0km az=136.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.5km az=158.4.
THE Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=220.0.
ATH Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=307.0.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.1km az=47.0.

ISC	**VI**	**24 06 53 30.6–.88**	**37.55N–.02**	**20.93E–.02**	**13–5**	**4.3b**	**697**	**0-122**
IDC	VI	24 06 53 28.9–.63	37.59N	21.05E	0	4.2,4.2b		¶16652969
HLW	VI	24 06 53 29.1	37.88N	21.27E	33–8	5.4,4.2b		
MOS	VI	24 06 53 30.9–1.1	37.63N	20.95E	25	4.6b,4.2b		
NEIC	VI	24 06 53 30.6	37.58N	20.96E	21	4.7b,4.3L		
ATH	VI	24 06 53 30.9	37.56N	20.95E	15–0	4.2L,4.3L		
ISCJB	VI	24 06 53 31.2–.30	37.55N–.01	20.86E–.01	25–2	4.4b,4.3L		
ROM	VI	24 06 53 31.3–.43	37.30N	20.78E	10–2	4.1L,4.3L		
THE	VI	24 06 53 31.0	37.59N	20.96E	0–2	4.3L,4.3L		
PDG	VI	24 06 53 31.7–.67	37.63N	20.96E	11–1	4.2L,4.3L		
CSEM	VI	24 06 53 32.2–.13	37.54N	20.90E	20	4.6b,4.3L		

ISC Event type ke.
IDC Error ellipse: s-maj=14.3km s-min=11.4km az=162.0.
MOS Error ellipse: s-maj=8.6km s-min=4.4km az=65.8.
NEIC Event type se. After ATH.
ATH Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=13.9.
ROM Event type ke. Error ellipse: s-maj=7.3km s-min=2.5km az=18.0.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=0.8km az=216.0.
PDG Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.4km az=34.0.

ATH	**VI**	**24 06 58 14.3**	**37.60N**	**20.98E**	**16–4**	**2.4L**		
CSEM	VI	24 06 58 14.3	37.60N	20.98E	16	2.4L		¶602547194

ATH Event type ke. Error ellipse: s-maj=4.3km s-min=0.8km az=254.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**VI**	**24 16 21 47.0–1.3**	**37.62N–.03**	**20.99E–.03**	**2–11**		**114**	**1-4**
ATH	VI	24 16 21 46.3	37.58N	20.96E	11–2	3.3L		¶16881017
THE	VI	24 16 21 47.3	37.62N	21.00E	0–2	3.4L		
CSEM	VI	24 16 21 47.6–.30	37.63N	21.01E	2	3.4L		

ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=2.6km s-min=1.0km az=38.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.7km az=250.0.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=3.7km az=52.0.

ISC	**VI**	**30 07 27 53.2–1.2**	**37.63N–.06**	**20.98E–.03**	**18–4**		**40**	**0-1**
CSEM	VI	30 07 27 52.8–.25	37.61N	20.98E	15	2.2L		¶16881137
ATH	VI	30 07 27 52.7	37.62N	20.99E	21–3	2.2L		
THE	VI	30 07 27 52.1	37.56N	20.99E	22–0	2.5L		
ISCJB	VI	30 07 27 53.0–1.1	37.59N–.06	20.97E–.06	19–12	2.5L		

ISC Event type ke.
CSEM Event type ke.
ATH Event type ke.
THE Event type ke.
ISCJB Event type ke.

(400) Central Mediterranean Sea.

ISC	**I**	**01 00 05 58.2–1.7**	**34.73N–.05**	**22.38E–.05**	**10–11**	**3.8b**	**151**	**1-47**
ISCJB	I	01 00 05 56.7–1.3	34.69N–.04	22.30E–.04	2–10	3.7b		¶15902443
IDC	I	01 00 05 57.5–1.1	34.74N	22.51E	0	4.0b,3.8		
ATH	I	01 00 05 58.8	34.77N	22.39E	20–2	3.7,3.8		
THE	I	01 00 05 58.9	34.74N	22.34E	0–4	3.4L,3.8		
CSEM	I	01 00 05 59.3–.53	34.76N	22.43E	2	3.7,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.9km az=18.7.
IDC Error ellipse: s-maj=22.2km s-min=16.2km az=0.0.
ATH Error ellipse: s-maj=2.3km s-min=1.7km az=-1.0.
THE Event type ke. Error ellipse: s-maj=8.7km s-min=1.4km az=225.0.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=4.3km az=25.0.

ISC	**I**	**03 03 50 01.0–1.2**	**35.47N–.04**	**21.53E–.04**	**19–3**	**3.6b**	**259**	**1-47**
ATH	I	03 03 49 59.8	35.41N	21.49E	16–1	3.7,3.4L		¶16394740
IDC	I	03 03 49 59.2–1.1	35.62N	21.57E	0	3.6,3.6		
ISCJB	I	03 03 50 03.2–.80	35.59N–.03	21.64E–.04	15–7	3.5b,3.6		
CSEM	I	03 03 50 03.1–.33	35.61N	21.69E	2	3.1L,3.6		
THE	I	03 03 50 05.5	35.60N	21.69E	22–4	3.1L,3.6		

ISC Event type ke.
ATH Error ellipse: s-maj=1.1km s-min=1.5km az=-1.0.
IDC Error ellipse: s-maj=22.0km s-min=16.3km az=4.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=3.4km az=135.8.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=3.4km az=40.0.
THE Event type ke. Error ellipse: s-maj=5.0km s-min=0.8km az=231.0.

ISC	**I**	**04 05 36 17.8–1.0**	**35.73N–.04**	**21.75E–.04**	**49–12**	**3.7b**	**275**	**1-79**
IDC	I	04 05 36 11.6–1.0	35.78N	21.89E	0	3.8,3.7		¶16021248
ATH	I	04 05 36 16.3	35.68N	21.72E	45	3.7L,3.6		
ISCJB	I	04 05 36 17.0–.40	35.73N–.02	21.74E–.03	64–5	3.7b,3.6		
CSEM	I	04 05 36 17.3–.16	35.70N	21.72E	30	4.2W,3.6L		
THE	I	04 05 36 17.8	35.79N	21.82E	21–5	3.6L,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=21.2km s-min=16.9km az=162.0.
ATH Error ellipse: s-maj=0.9km s-min=1.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=2.9km az=138.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.3km az=55.0.
THE Event type ke. Error ellipse: s-maj=5.8km s-min=1.0km az=229.0.

ISC	**I**	**06 22 04 19.6–1.9**	**35.39N–.06**	**22.63E–.05**	**22–17**		**108**	**1-4**
ISCJB	I	06 22 04 18.6–1.1	35.36N–.05	22.58E–.05	28–8			¶16868808
ATH	I	06 22 04 18.3	35.38N	22.58E	35–4	3.5		
CSEM	I	06 22 04 19.2–.25	35.39N	22.63E	20	2.7L		

THE I 06 22 04 20.3 35.39N 22.64E 24–2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=4.4km az=35.6.
ATH Error ellipse: s-maj=2.1km s-min=2.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.5km s-min=2.4km az=38.0.
THE Event type ke. Error ellipse: s-maj=2.4km s-min=0.9km az=42.0.
ATH I 09 11 49 44.9 35.27N 21.23E 40–8 3.5
CSEM I 09 11 49 44.9 35.27N 21.23E 40 3.5 **¶600871437**
ATH Error ellipse: s-maj=3.3km s-min=3.7km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ATH I 12 22 49 55.3 35.56N 21.02E 28–7 3.6
CSEM I 12 22 49 55.3 35.56N 21.03E 27 3.6 **¶600871560**
ATH Error ellipse: s-maj=4.0km s-min=5.1km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 13 21 38 55.7–1.8 35.45N–.03 22.71E–.04 18–7 3.7b 166 1-78
CSEM I 13 21 38 56.4–.16 35.45N 22.72E 20 3.6 **¶16395750**
HLW I 13 21 38 56.7 35.72N 23.09E 30–12 3.4
ATH I 13 21 38 57.1 35.55N 22.79E 43–2 3.6,3.3L
THE I 13 21 38 57.9 35.53N 22.80E 17–1 3.4L,3.3L
IDC I 13 21 39 00.5–2.1 35.74N 22.90E 74–21 3.7,3.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=2.8km az=56.0.
ATH Error ellipse: s-maj=2.0km s-min=2.1km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=28.0.
IDC Error ellipse: s-maj=23.8km s-min=17.2km az=42.0.
ISC I 13 22 19 27.5–.65 35.54N–.04 22.80E–.03 53–6 3.8b 222 1-80
CSEM I 13 22 19 26.0–.28 35.46N 22.62E 30 3.7 **¶16395754**
ISCJB I 13 22 19 26.9–.37 35.55N–.03 22.74E–.04 71–3 3.7b
HLW I 13 22 19 26.0 35.77N 23.18E 30–12 3.9
ATH I 13 22 19 28.0 35.61N 22.86E 46–3 3.7,3.5L
THE I 13 22 19 28.2 35.55N 22.80E 21–2 3.7L,3.5L
IDC I 13 22 19 29.1–1.5 35.67N 22.79E 67–13 3.9,3.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=4.6km az=47.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.3km az=135.7.
ATH Error ellipse: s-maj=1.6km s-min=1.6km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.6km s-min=0.9km az=34.0.
IDC Error ellipse: s-maj=15.4km s-min=11.1km az=22.0.
ATH I 14 23 06 44.7 34.99N 22.73E 38–7 3.6
CSEM I 14 23 06 44.7 34.99N 22.73E 38 3.6 **¶600871611**
ATH Error ellipse: s-maj=4.1km s-min=3.8km az=-1.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 15 09 23 37.1–1.3 35.94N–.03 21.53E–.03 11–8 4.2b,3.3s 332 1-76
IDC I 15 09 23 35.9–.75 36.05N 21.74E 0 4.0b,3.9 **¶16019224**
CSEM I 15 09 23 37.3–.21 35.92N 21.57E 4 3.9L,3.9
ATH I 15 09 23 37.0 35.82N 21.56E 23–4 3.9L,3.7
THE I 15 09 23 38.2 35.93N 21.55E 5–1 3.9L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=16.2km s-min=12.8km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=48.0.
ATH Error ellipse: s-maj=2.5km s-min=2.5km az=-1.0.
THE Event type ke. Error ellipse: s-maj=1.6km s-min=0.6km az=237.0.
ISC I 18 04 12 15.7–1.4 35.93N–.04 22.12E–.04 12–9 141 1-3
ISCJB I 18 04 12 15.9–.95 35.92N–.04 22.11E–.04 14–7 **¶16871439**
ATH I 18 04 12 15.9 35.90N 22.14E 26–2 3.5,3.2L
CSEM I 18 04 12 16.2–.32 35.94N 22.15E 10 3.0L,3.2L
THE I 18 04 12 16.8 35.98N 22.14E 13–2 3.0L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=3.3km az=43.3.
ATH Error ellipse: s-maj=1.6km s-min=1.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=3.5km az=45.0.
THE Event type ke. Error ellipse: s-maj=2.0km s-min=0.8km az=83.0.
ISC I 20 19 20 28.0–1.5 35.31N–.04 22.88E–.04 1–11 79 1-14
ISCJB I 20 19 20 27.2–1.1 35.30N–.04 22.89E–.05 3–6 **¶16871492**
CSEM I 20 19 20 27.3–.53 35.28N 22.89E 2 2.9L
ATH I 20 19 20 28.5 35.33N 22.89E 29–2 3.4
THE I 20 19 20 29.0 35.34N 22.93E 0–2 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=4.0km az=41.7.
CSEM Event type ke. Error ellipse: s-maj=12.4km s-min=4.9km az=43.0.
ATH Error ellipse: s-maj=2.3km s-min=2.4km az=-1.0.
THE Event type ke. Error ellipse: s-maj=2.5km s-min=0.9km az=211.0.
ISC I 29 08 02 04.1–.62 35.91N–.05 21.58E–.04 39–2 4.0b 186 1-121
IDC I 29 08 01 58.9–.71 35.96N 21.77E 0 4.1,4.1s **¶15979162**
CSEM I 29 08 02 00.8–.38 35.90N 21.59E 2 3.6L,4.1s
ATH I 29 08 02 01.1 35.84N 21.54E 23–1 3.9L,4.1s
ISCJB I 29 08 02 04.1–.54 35.94N–.04 21.59E–.04 58–5 4.1s,3.9b
THE I 29 08 02 04.5 36.00N 21.69E 18–3 3.6L,3.9b
ISC Event type ke.
IDC Error ellipse: s-maj=16.3km s-min=14.0km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=4.0km az=40.0.
ATH Error ellipse: s-maj=1.4km s-min=1.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=4.0km az=34.7.
THE Event type ke. Error ellipse: s-maj=3.8km s-min=1.0km az=226.0.
ATH II 09 11 20 59.7 35.30N 21.49E 58–23 2.6L
CSEM II 09 11 21 01.0–.40 35.28N 21.47E 40 2.7L **¶16871888**
THE II 09 11 21 02.7 35.43N 21.44E 32–50 2.7L
ATH Event type ke. Error ellipse: s-maj=23.8km s-min=1.2km az=48.0. Analyst: D.Makaris ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=8.5km s-min=4.5km az=43.0.
THE Event type ke. Error ellipse: s-maj=50.7km s-min=1.7km az=134.0.
ISC II 23 21 14 11.2–1.3 36.00N–.03 21.85E–.03 3–8 3.9b 236 1-80
IDC II 23 21 14 09.9–.89 36.06N 21.98E 0 3.8,3.7 **¶16398815**
ATH II 23 21 14 11.7 36.01N 21.87E 14–1 3.6L,3.7
CSEM II 23 21 14 12.4–.23 36.00N 21.87E 2 3.6L,3.7
THE II 23 21 14 13.0 36.04N 21.88E 2–0 3.6L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=19.3km s-min=13.5km az=9.0.
ATH Event type ke. Error ellipse: s-maj=2.9km s-min=1.0km az=50.0. Analyst: Daskalaki ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=2.3km az=45.0.
THE Event type ke. Error ellipse: s-maj=1.4km s-min=0.6km az=226.0.
ISC III 06 00 11 15.8–.80 33.77N–.05 24.71E–.06 10 3.6b 56 1-61
ISCJB III 06 00 11 14.8–.62 33.67N–.04 24.72E–.07 10 3.7b,2.9s **¶17193314**
IDC III 06 00 11 15.0–1.3 34.03N 24.51E 0 3.8b,3.7
ATH III 06 00 11 17.6 33.85N 24.73E 18–1 2.4L,3.7
CSEM III 06 00 11 17.9–.44 33.72N 24.68E 20 2.4L,3.7
HLW III 06 00 11 22.5 33.90N 25.10E 33–14 3.3,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=3.7km az=151.9.
IDC Error ellipse: s-maj=36.9km s-min=22.3km az=146.0.
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=2.1km az=21.0. Analyst: Chousianitis ML Amplitudes are expressed in micrometres All distances are expressed in km.
CSEM Event type ke. Error ellipse: s-maj=16.0km s-min=4.7km az=61.0.
ISC III 12 09 04 32.0–1.9 36.46N–.06 20.47E–.05 13–10 128 1-11
CSEM III 12 09 04 33.9–.38 36.49N 20.62E 2 3.5L **¶16872336**
ATH III 12 09 04 33.5 36.50N 20.57E 19–3 3.5L
THE III 12 09 04 34.8 36.52N 20.64E 2–2 3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.3km s-min=4.4km az=25.0.
ATH Event type ke. Error ellipse: s-maj=5.3km s-min=1.9km az=64.0. Analyst: A.FOKAEFS ML Amplitudes are expressed in micrometres All distances are expressed in km.
THE Event type ke. Error ellipse: s-maj=2.8km s-min=1.5km az=14.0.
ISC IV 03 23 53 40.9–.77 35.76N–.03 21.96E–.02 17–4 4.6b,3.8s 739 1-121
HLW IV 03 23 53 34.5 36.03N 22.21E 7–13 4.1L,3.8s **¶16406033**
BJI IV 03 23 53 36.7 36.19N 21.63E 10 5.1b,4.8b
ISCJB IV 03 23 53 38.2–.20 35.64N–.02 21.88E–.02 10 4.6b,3.8s
ATH IV 03 23 53 39.0 35.64N 21.90E 12–1 4.3L,3.8s
IDC IV 03 23 53 38.5–.42 35.77N 22.08E 0 4.5,4.5
NEIC IV 03 23 53 38.9 35.64N 21.90E 12 4.5b,4.3L
THE IV 03 23 53 39.1 35.60N 21.84E 0–2 4.5L,4.3L
CSEM IV 03 23 53 40.0–.13 35.66N 21.89E 10 4.8b,4.3L
MOS IV 03 23 53 41.3–1.1 35.85N 21.99E 26 4.8b,4.3L
PDG IV 03 23 53 43.0–.30 35.98N 21.63E 14–3 4.5L,4.3L
GII IV 03 23 53 47.4–.18 35.20N 22.74E 10 4.5b,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=13.6.
ATH Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=41.0.
IDC Error ellipse: s-maj=11.0km s-min=9.9km az=170.0.
NEIC Event type se. After ATH.
THE Event type ke. Error ellipse: s-maj=3.4km s-min=1.0km az=217.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=18.0.
MOS Error ellipse: s-maj=7.0km s-min=3.5km az=85.7.
PDG Event type ke. Error ellipse: s-maj=4.4km s-min=1.2km az=90.0.
GII Event type ke.
ISC IV 07 15 28 10.1–1.4 35.58N–.04 21.93E–.04 1–9 3.9b 133 1-76
IDC IV 07 15 28 09.8–1.0 35.73N 22.03E 0 3.7,3.7b **¶16705936**
ATH IV 07 15 28 10.6 35.60N 21.91E 6–1 3.4L,3.7b
ISCJB IV 07 15 28 11.4–1.2 35.55N–.03 21.86E–.04 10–9 3.7b,3.7b
THE IV 07 15 28 11.6 35.66N 21.99E 0–3 3.5L,3.7b
CSEM IV 07 15 28 13.4–.40 35.68N 21.99E 2 3.5L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=22.2km s-min=16.4km az=174.0.
ATH Event type ke. Error ellipse: s-maj=2.2km s-min=0.9km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.2km az=38.3.
THE Event type ke. Error ellipse: s-maj=4.0km s-min=1.1km az=205.0.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=4.3km az=40.0.
ISC IV 08 12 46 25.9–1.5 35.71N–.05 21.92E–.04 11–9 3.7b 50 1-76
ATH IV 08 12 46 24.2 35.62N 21.87E 8–3 3.3L **¶16706055**
CSEM IV 08 12 46 26.5–.46 35.70N 21.97E 2 3.5L
THE IV 08 12 46 27.1 35.76N 21.98E 0–2 3.5L
IDC IV 08 12 46 29.7–3.3 35.73N 21.99E 40–36 3.6,3.5
ISC Event type ke.
ATH Event type ke. Error ellipse: s-maj=4.9km s-min=1.4km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=4.9km az=34.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.6km az=249.0.
IDC Error ellipse: s-maj=31.8km s-min=17.8km az=169.0.
ROM IV 23 22 10 58.2–.27 35.88N 14.88E 5 3.5L
¶16872880
ROM Event type ke. Error ellipse: s-maj=3.7km s-min=1.4km az=137.0.
ISC IV 24 09 21 18.8–1.9 35.9N–.10 14.89E–.08 10 33 0-7
ISCJB IV 24 09 21 18.0–1.7 35.8N–.10 14.82E–.10 10 **¶16872905**
ROM IV 24 09 21 18.4–.35 35.82N 14.91E 9 3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=9.5km az=156.3.
ROM Event type ke. Error ellipse: s-maj=5.2km s-min=2.1km az=141.0.
ISC IV 24 09 25 27.4–2.1 35.89N–.07 14.87E–.05 1–12 84 0-6
ROM IV 24 09 25 28.0–.47 35.83N 14.89E 9 3.7L **¶16453005**
NEIC IV 24 09 25 28.0 35.81N 14.89E 20 3.5L
CSEM IV 24 09 25 29.9–.50 35.93N 14.85E 10 3.7L
ISC Event type fe.
ROM Event type ke. Error ellipse: s-maj=6.9km s-min=2.2km az=143.0.
NEIC Event type fe. Felt [III] at Birkirkara and San Giljan and [II] at Sliema and Tarxien. Also felt at Kalkara, Kirkop, Luqa, Masaskala, Melieha, Msida, Paola, Pieta, San Gwann, San Pawl il-Bahar, Valletta, Zabbar and Zejtun. After ROM.
CSEM Event type ke. Error ellipse: s-maj=11.3km s-min=5.0km az=147.0.
ISC IV 24 13 02 14.3–1.0 35.95N–.04 14.82E–.04 11–7 3.6b 166 0-74
ISCJB IV 24 13 02 12.4–.75 35.82N–.03 14.89E–.03 19–5 3.4b,2.7s **¶16453013**
NEIC IV 24 13 02 12.0 35.82N 14.88E 20 4.1L,2.7s
ROM IV 24 13 02 12.0–.31 35.83N 14.91E 10 4.3L,2.7s
IDC IV 24 13 02 13.2–1.1 36.00N 14.75E 0 3.6,3.6
CSEM IV 24 13 02 13.2–.41 35.84N 14.84E 15 4.1L,3.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=153.8.
NEIC Event type fe. Felt [III] at Birkirkara and Sliema. Also felt at Attard, Balzan, Birzebugia, Bormla, Dingli, Ghaxaq, Gudja, Gzira, Marsascala, Mqabba, Naxxar, Qormi, Rabat, San Gwann, Swieqi, Tarxien, Valletta, Xghajra, Zabbar and Zebbug. Felt in southeastern Sicily. After ROM.
ROM Event type ke. Error ellipse: s-maj=4.7km s-min=1.7km az=146.0.
IDC Error ellipse: s-maj=19.7km s-min=16.3km az=166.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=4.6km az=164.0.
ROM IV 26 04 10 28.3–.43 35.76N 14.97E 18–3 3.5L
¶16459959
ROM Event type ke. Error ellipse: s-maj=10.9km s-min=5.4km az=81.0.
ISC VI 22 00 55 59.3–.88 35.46N–.05 22.56E–.03 49–8 3.7b 239 1-78
CSEM VI 22 00 55 56.9–.45 35.44N 22.50E 10 3.5L **¶16731183**
ATH VI 22 00 55 59.9 35.56N 22.67E 36–2 3.4L
IDC VI 22 00 56 02.5–2.0 35.74N 22.61E 60–21 3.7,3.7L
THE VI 22 00 56 02.0 35.58N 22.73E 22–1 3.5L,3.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=4.4km az=28.0.
ATH Event type ke. Error ellipse: s-maj=3.3km s-min=1.0km az=54.0.
IDC Error ellipse: s-maj=20.8km s-min=15.1km az=6.0.
THE Event type ke. Error ellipse: s-maj=2.2km s-min=0.8km az=47.0.
ISC VI 30 07 10 14.9–1.0 34.93N–.05 21.99E–.04 24–6 4.0b,3.7s 168 1-87
IDC VI 30 07 10 12.2–1.1 34.94N 22.09E 0 4.1b,4.1 **¶16704500**
ATH VI 30 07 10 13.9 34.96N 21.99E 16–3 3.6L,4.1
THE VI 30 07 10 15.9 34.88N 21.85E 30–6 3.8L,4.1
CSEM VI 30 07 10 16.9–.78 34.96N 22.02E 20 3.6L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=20.7km s-min=15.7km az=22.0.
ATH Event type ke. Error ellipse: s-maj=5.1km s-min=1.3km az=30.0.
THE Event type ke. Error ellipse: s-maj=7.4km s-min=1.0km az=223.0.
CSEM Event type ke. Error ellipse: s-maj=19.0km s-min=6.2km az=34.0.

(401) Near coast of Libya.
IDC III 04 16 23 56.1–785 30.72N 23.44E 0
¶17193242
IDC Error ellipse: s-maj=484.8km s-min=166.7km az=98.0.
IDC III 24 02 14 36.5–496 31.50N 15.83E 0
¶17198273
IDC Error ellipse: s-maj=247.0km s-min=128.8km az=153.0.
IDC III 27 23 14 52.0–357 31.60N 13.26E 0
¶17198866
IDC Error ellipse: s-maj=146.9km s-min=113.9km az=144.0.
IDC III 28 00 21 38.9–11 31.65N 13.77E 0 2.8,2.8
¶17198872
IDC Error ellipse: s-maj=109.1km s-min=95.9km az=63.0.
IDC III 28 01 08 11.8–12 31.74N 13.44E 0 2.7,2.7
¶17198877
IDC Error ellipse: s-maj=108.9km s-min=107.3km az=128.0.
IDC III 28 01 43 29.1–355 31.52N 13.46E 0
¶17198882
IDC Error ellipse: s-maj=152.1km s-min=109.9km az=146.0.
IDC III 28 02 11 03.0–19 31.43N 14.22E 0 3.1,3.1
¶17198887
IDC Error ellipse: s-maj=202.5km s-min=122.3km az=139.0.
IDC III 28 21 30 32.6–361 31.18N 13.82E 0
¶17198869
IDC Error ellipse: s-maj=151.4km s-min=119.4km az=148.0.
IDC III 28 22 35 16.8–347 31.40N 13.94E 0
¶17199006
IDC Error ellipse: s-maj=151.3km s-min=127.3km az=147.0.
IDC III 28 23 02 04.3–347 31.58N 13.35E 0
¶17199008
IDC Error ellipse: s-maj=158.3km s-min=114.6km az=144.0.
IDC III 29 00 41 36.6–347 31.67N 12.75E 0
¶17199015
IDC Error ellipse: s-maj=162.3km s-min=104.5km az=147.0.
IDC III 29 19 47 29.1–560 31.14N 15.32E 0
¶17199104
IDC Error ellipse: s-maj=272.5km s-min=135.2km az=156.0.

IDC IV 26 23 12 12.9–407 31.70N 12.78E 0
¶17202193
IDC Error ellipse: s-maj=154.3km s-min=110.2km az=151.0.
IDC V 24 16 37 14.1–999 31.87N 12.00E 0
¶17204390
IDC Error ellipse: s-maj=419.6km s-min=93.3km az=150.0.
IDC VI 22 19 51 04.9–829 30.68N 13.14E 0
¶17206775
IDC Error ellipse: s-maj=366.9km s-min=130.8km az=136.0.
IDC VI 22 20 01 34.0–976 30.39N 13.40E 0
¶17206777
IDC Error ellipse: s-maj=424.9km s-min=160.7km az=128.0.

SEISMIC REGION 32.
Atlantic Ocean.

(402) North Atlantic Ocean.

ISC I 09 15 00 45.1–2.9 39.37N–.05 13.6W–.20 10 132 4-7
IGIL I 09 15 00 47.0 39.33N 13.75W 10 2.2L **¶15910816**
MDD I 09 15 00 48.7–1.9 39.36N 13.40W 0 3.8b
INMG I 09 15 00 51.2–1.4 39.34N 13.77W 10 2.4L
CSEM I 09 15 00 51.6–.47 39.39N 13.10W 10 2.9L
ISC Event type ke.
MDD Error ellipse: s-maj=17.8km s-min=12.1km az=70.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=8.8km s-min=4.9km az=80.0.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.8km az=74.0.
TRN I 10 05 02 50.7 11.69N 60.00W 27 3.5
¶600305267
ISC I 15 00 24 24.0–.44 14.26N–.07 18.97W–.08 10 4.5b,3.4s 197 14-166
BJI I 15 00 24 21.8 14.54N 19.33W 6 4.6b,3.4s **¶15931015**
MOS I 15 00 24 21.0–.94 13.99N 18.91W 10 4.6b,3.4s
IDC I 15 00 24 21.7–.61 14.14N 19.03W 0 4.4,4.2
ISCJB I 15 00 24 22.3–.35 14.19N–.06 18.97W–.06 10 4.4b,3.5s
NEIC I 15 00 24 24.2–.28 14.28N 19.02W 10 4.5b,3.5s
CSEM I 15 00 24 24.5–.17 14.29N 19.05W 10 4.6b,3.5s
ISC Event type ke.
MOS Error ellipse: s-maj=15.2km s-min=6.4km az=57.1.
IDC Error ellipse: s-maj=21.5km s-min=12.8km az=142.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=7.1km az=136.2.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.3km az=125.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=7.0km az=126.0.
ISC I 16 08 33 18.4–.45 17.18N–.09 26.52W–.07 10 4.5b,4.0s 85 18-90
ISCJB I 16 08 33 16.8–.32 17.19N–.06 26.48W–.05 10 4.3b,4.0s **¶15931181**
IDC I 16 08 33 16.7–.52 17.11N 26.51W 0 4.3,4.2
CSEM I 16 08 33 17.5–.20 17.24N 26.49W 2 4.8b,4.2
NEIC I 16 08 33 18.5–.28 17.14N 26.53W 10 4.8b,4.2
GCMT I 16 08 33 18.5–.40 17.28N 26.49W 14–2 4.8W,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=7.0km az=175.9.
IDC Error ellipse: s-maj=14.2km s-min=12.1km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=11.6km s-min=8.4km az=162.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.1km az=168.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s14,c15; s81,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.04±.08 $M_{\theta\theta}$1.46±.09; $M_{\phi\phi}$-1.49±.09; $M_{r\theta}$-0.31±.18; $M_{\theta\phi}$-1.04±.10; $M_{\phi r}$0.11±.17; Best double couple: NP1:ϕ_s333.00000°,δ83.00000° ,λ8.00000°. NP2:ϕ_s242.00000°,δ82.00000°,λ173.00000°. Principal axes: T 1.8490,Plg10.0000°,Azm198.0000°; N -0.0230,Plg80.0000°,Azm15.0000° ; P -1.8200,Plg0.0000°,Azm108.0000° $M_0$1.83400×10^{16}
ISC I 21 16 15 43.4–.61 20.07N–.03 66.06W–.03 19–2 5.3b,4.5s 1013 2-161
IDC I 21 16 15 40.8–.33 20.07N 66.00W 0 5.1,5.1 **¶15954511**
MOS I 21 16 15 40.6–1.2 20.12N 66.20W 10 5.3b,4.5s
ISCJB I 21 16 15 42.2–.89 20.14N–.02 66.06W–.02 19–6 5.2b,4.5s
NEIC I 21 16 15 45.0 20.07N 66.01W 29 5.3,5.3b
GCMT I 21 16 15 45.0–.20 20.30N 66.11W 12 5.2W,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=11.0km s-min=9.2km az=70.0.
MOS Error ellipse: s-maj=6.1km s-min=4.8km az=104.4.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.2km az=30.2.
NEIC Event type fe. Felt [III] at Aibonito, Bayamon, Caguas, Guaynabo and San Juan; [II] at Carolina, Cidra and Toa Baja. Felt in much of Puerto Rico, including at Mayaguez and Ponce. Felt [II] on Saint Thomas, Virgin Islands. Also felt on Saint John. Felt at Barahona and Santo Domingo, Dominican Republic. After RSPR. Moment Tensor Solution. s22 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.80 $M_{\theta\theta}$2.58 $M_{\phi\phi}$0.22 $M_{r\theta}$-0.13 $M_{\theta\phi}$1.55 $M_{\phi r}$0.60 Best double couple: NP1:ϕ_s230.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s77.00000° ,δ45.00000°,λ-70.00000°. Principal axes: T 3.3500,Plg1.0000°,Azm333.0000° ; N -0.4000,Plg14.0000°,Azm243.0000°; P -2.9500,Plg76.0000°,Azm69.0000° $M_0$3.20000×10^{16}
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c69; s97,c168; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.42±.16 $M_{\theta\theta}$4.10±.13; $M_{\phi\phi}$0.32±.16; $M_{r\theta}$3.02±.42; $M_{\theta\phi}$4.35±.12; $M_{\phi r}$1.85±.49; Best double couple: NP1:ϕ_s239.00000°,δ61.00000° ,λ-88.00000°. NP2:ϕ_s54.00000°,δ29.00000°,λ-94.00000°. Principal axes: T 7.9660,Plg16.0000°,Azm327.0000°; N -2.5250,Plg2.0000°,Azm57.0000° ; P -5.4360,Plg74.0000°,Azm154.0000° $M_0$6.70100×10^{16}
ISC II 10 00 34 19.9–3.1 40.10N–.05 13.7W–.20 10 97 4-8
MDD II 10 00 34 22.4–2.3 40.12N 13.62W 0 3.9b **¶16017973**
INMG II 10 00 34 24.6–.96 40.11N 14.04W 10 2.2L
CSEM II 10 00 34 25.0–.45 40.08N 13.33W 10 2.9L
ISC Event type ke.
MDD Error ellipse: s-maj=20.2km s-min=15.5km az=78.0. PRXIMO SIN SOLUCIN.
INMG Event type ke. Error ellipse: s-maj=7.7km s-min=4.7km az=91.0.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.8km az=82.0.
RSPR II 13 18 41 50.9 19.89N 68.25W 51–28 3.4
¶16024743
RSPR Event type ke.
ISC II 19 08 13 28.1–1.4 57.62N–.10 51.0W–.10 10 11 5-14
OTT II 19 08 13 31.5–.95 57.70N 50.92W 18 3.3L **¶16056979**
ISC Event type ke.
OTT Event type ke. Error ellipse: s-maj=4.4km s-min=8.9km az=-1.0. Labrador Sea. 582km northeast from Aillik, Nl.
ISC II 19 21 09 38.5–1.8 11.96N–.04 59.79W–.08 98–15 39 1-9
TRN II 19 21 09 37.1 11.93N 59.81W 103 3.5 **¶600743881**
ISCJB II 19 21 09 38.1–.74 11.97N–.03 59.83W–.06 104–8 3.5
FUNV II 19 21 09 41.7 11.77N 59.72W 96 3.2W
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=4.3km az=21.7.
IDC III 05 23 09 11.5–424 18.70N 59.87W 0
¶17193311
IDC Error ellipse: s-maj=237.4km s-min=153.6km az=109.0.
ISC III 11 20 26 55.9–3.4 43.13N–.09 14.0W–.20 10 139 4-9
MDD III 11 20 26 56.6–2.1 43.19N 14.04W 0 4.3b **¶16308471**
INMG III 11 20 26 58.4–1.1 43.39N 14.41W 10 2.4L
IGIL III 11 20 26 59.2 43.02N 14.22W 0 2.4L
CSEM III 11 20 27 00.2–.42 43.04N 13.71W 10 3.0L
ISC Event type ke.
MDD Error ellipse: s-maj=19.9km s-min=17.0km az=97.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=8.0km s-min=6.2km az=114.0.
CSEM Event type ke. Error ellipse: s-maj=8.0km s-min=6.3km az=120.0.
ISC III 21 15 55 00.9–1.8 19.17N–.08 68.27W–.04 1–12 3.6b 54 1-159
IDC III 21 15 55 00.5–.99 19.17N 68.28W 0 4.0,3.8 **¶16341369**
RSPR III 21 15 55 04.9 19.32N 68.29W 18–5 3.6,3.8
NEIC III 21 15 55 05.7–.47 19.13N 68.25W 35 3.6,3.8
ISC Event type fe.
IDC Error ellipse: s-maj=28.5km s-min=20.0km az=31.0.
RSPR Event type ke.
NEIC Event type fe. Error ellipse: s-maj=11.2km s-min=5.6km az=205.0. Felt [III] at Mayaguez, Puerto Rico.
ISC III 29 14 45 49.4–.66 44.55N–.02 11.08W–.03 10 228 2-11
MDD III 29 14 45 50.9–1.6 44.54N 11.56W 20 4.1b **¶16389117**
LDG III 29 14 45 51.8–.28 44.66N 11.55W 25 3.6L
CSEM III 29 14 45 52.6–.52 44.32N 11.35W 20 3.4L
INMG III 29 14 45 52.8–1.7 44.62N 11.78W 10 2.6L
ISC Event type ke.
MDD Error ellipse: s-maj=14.5km s-min=8.8km az=109.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=5.5km s-min=3.0km az=102.0.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=5.8km az=103.0.
INMG Event type ke. Error ellipse: s-maj=7.5km s-min=3.6km az=100.0.
RSPR III 29 15 11 52.7 19.13N 68.22W 72–8 3.5
¶16389118
RSPR Event type ke.
ISC IV 07 12 05 28.9–1.5 3.2N–.30 48.5W–.20 10 4.1b 9 12-91
ISCJB IV 07 12 05 26.7–1.3 3.0N–.30 48.5W–.10 10 3.9b **¶17200108**
IDC IV 07 12 05 28.1–2.0 3.47N 48.41W 0 4.6L,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.5km s-min=13.8km az=157.2.
IDC Error ellipse: s-maj=68.7km s-min=27.4km az=0.0.
ISC IV 15 16 45 50.2–1.4 42.81N–.09 56.13W–.06 10 3.5b 57 5-58
IDC IV 15 16 45 46.8–1.4 42.56N 55.82W 0 4.0,3.8 **¶16445539**
NEIC IV 15 16 45 52.2 42.74N 56.01W 18 4.0L,3.8
OTT IV 15 16 45 52.2–.82 42.74N 56.01W 18 4.0L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=36.2km s-min=24.5km az=15.0.
NEIC Event type se. After OTT.
OTT Event type ke. Error ellipse: s-maj=5.6km s-min=3.3km az=-1.0. Atlantic Ocean. 475km southeast from Louisbourg, Ns.
ISC IV 18 15 38 03.7–.41 32.51N–.06 65.66W–.04 10 4.5b 247 1-161
BJI IV 18 15 38 00.9 32.40N 65.66W 7 4.5b **¶16445605**
ISCJB IV 18 15 38 02.2–.23 32.54N–.03 65.60W–.03 10 4.3b
IDC IV 18 15 38 02.7–.66 32.55N 65.67W 0 4.9L,4.2
NEIC IV 18 15 38 03.9–.98 32.46N 65.60W 10–6 4.6b,4.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=3.5km az=23.5.
IDC Error ellipse: s-maj=17.8km s-min=14.4km az=4.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.9km az=56.0. Felt [II] at Hamilton and Saint George.
RSPR IV 20 22 55 00.6 19.64N 68.20W 82–12 3.6
¶16449642
RSPR Event type ke.
MDD IV 26 12 11 17.4–4.7 41.13N 12.08W 0 3.7b
¶601021173
MDD Error ellipse: s-maj=58.8km s-min=40.5km az=42.0. PRXIMO SIN SOLUCIN.
ISC V 01 12 38 57.0–2.9 50.05N–.05 6.8W–.10 4–12 48 1-8
LDG V 01 12 38 46.9–.77 50.77N 7.57W 10 2.7L **¶16497377**
CSEM V 01 12 38 59.3–1.5 49.95N 6.56W 10 2.0L
BGS V 01 12 39 00.5–1.6 50.05N 6.64W 10 2.0L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=19.2km s-min=15.3km az=40.0.
CSEM Event type ke. Error ellipse: s-maj=34.6km s-min=11.8km az=114.0.
BGS Error ellipse: s-maj=18.0km s-min=17.0km az=-1.0.
RSPR V 01 21 41 45.6 19.28N 68.32W 68–7 3.5
¶16486831
RSPR Event type ke.
ISC V 04 15 26 18.6–.62 6.2N–.10 48.5W–.10 10 4.2b 25 13-166
ISCJB V 04 15 26 17.1–.50 6.19N–.10 48.53W–.09 10 4.1b **¶16577987**
IDC V 04 15 26 17.2–.61 6.18N 48.52W 0 4.3,4.1
NEIC V 04 15 26 18.7–.30 6.17N 48.51W 10 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=12.5km az=154.2.
IDC Error ellipse: s-maj=20.1km s-min=17.7km az=136.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.5km az=137.0.
ISC V 07 07 15 29.8–2.7 40.33N–.04 13.8W–.10 10 188 4-8
IGIL V 07 07 15 28.7 40.34N 14.27W 10 2.6L **¶16498412**
MDD V 07 07 15 31.0–1.6 40.32N 13.85W 0 4.5b
INMG V 07 07 15 33.4–.81 40.36N 14.24W 10 2.7L
CSEM V 07 07 15 34.5–.31 40.31N 13.49W 10 3.3L
ISC Event type ke.
MDD Error ellipse: s-maj=14.8km s-min=10.2km az=86.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.4km s-min=2.5km az=89.0.
CSEM Event type ke. Error ellipse: s-maj=5.8km s-min=4.0km az=87.0.
ISC V 27 02 48 16.6–2.2 11.75N–.06 59.2W–.10 33–4 40 1-5
TRN V 27 02 48 17.6 11.82N 59.32W 32 3.8 **¶601036330**
FUNV V 27 02 48 21.8 11.70N 59.40W 112 3.0W
ISC Event type ke.
RSPR V 27 13 27 55.8 19.31N 68.14W 120–9 3.3
¶16601779
RSPR Event type ke.
RSPR VI 02 23 08 57.2 19.77N 68.40W 137–8 3.5
¶16555893
RSPR Event type ke.
RSPR VI 03 04 26 38.0 19.70N 68.75W 122–15 3.8
¶16556881
RSPR Event type ke.
ISC VI 07 00 06 26.9–1.0 6.5N–.20 50.1W–.20 10 4.0b 8 12-87
IDC VI 07 00 06 24.0–1.6 6.16N 50.22W 0 5.3L,4.2 **¶17205439**
ISC Event type ke.
IDC Error ellipse: s-maj=52.3km s-min=27.0km az=2.0.
RSPR VI 08 20 57 56.3 19.35N 68.42W 53–8 3.6
¶16578091
RSPR Event type ke.
RSPR VI 15 07 10 51.3 19.78N 68.93W 117–5 3.7
¶16598363
RSPR Event type ke.
TRN VI 28 05 53 36.6 14.53N 57.77W 120 4.5
¶601259143

(403) Northern Mid-Atlantic Ridge.

ISC I 01 20 44 09.4–.59 25.8N–.10 45.1W–.10 12 4.3b,3.7s 25 21-90
ISCJB I 01 20 44 07.5–.46 25.82N–.08 45.11W–.10 12 4.1b,3.6s **¶16007500**
IDC I 01 20 44 07.7–.62 25.83N 45.10W 0 4.2,4.0b
NEIC I 01 20 44 09.1–.31 25.80N 45.10W 10 4.5b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=11.0km az=41.2.
IDC Error ellipse: s-maj=18.6km s-min=15.2km az=153.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.6km az=131.0.
ISC I 02 12 12 41.2–.52 27.2N–.10 44.40W–.08 16 4.5b,3.7s 132 22-176
MOS I 02 12 12 38.4–1.0 27.20N 44.40W 10 4.7b,3.7s **¶15902841**
IDC I 02 12 12 38.4–.60 27.24N 44.38W 0 4.4,4.3
ISCJB I 02 12 12 39.7–.37 27.25N–.08 44.40W–.04 16 4.4b,3.8s
NEIC I 02 12 12 40.1–.22 27.22N 44.35W 10 4.5b,3.8s
ISC Event type se.
MOS Error ellipse: s-maj=13.9km s-min=6.6km az=53.9.
IDC Error ellipse: s-maj=18.4km s-min=13.7km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=5.5km az=171.9.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=4.4km az=177.0.
ISC I 06 16 36 11.9–.34 20.25N–.07 45.75W–.05 10 5.2b,4.3s 470 15-128
MOS I 06 16 36 09.9–.91 20.26N 45.75W 10 4.9b,4.3s **¶15908152**
IDC I 06 16 36 09.9–.50 20.27N 45.75W 0 4.3s,4.3
ISCJB I 06 16 36 10.3–.23 20.27N–.04 45.77W–.03 10 5.1b,4.3s
NEIC I 06 16 36 12.0–.20 20.23N 45.74W 10 5.2b,4.3s
GCMT I 06 16 36 12.0–.20 20.29N 45.62W 12 5.1W,4.3s
ISC Event type se.
MOS Error ellipse: s-maj=8.6km s-min=7.8km az=40.6.
IDC Error ellipse: s-maj=14.9km s-min=14.1km az=119.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.7km az=177.0.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.5km az=177.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s112,c182; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.11±.14 $M_{\theta\theta}$0.09±.14; $M_{\phi\phi}$6.02±.12; $M_{r\theta}$0.45±.52; $M_{\theta\phi}$0.50±.13; $M_{\phi r}$-1.28±.43; Best double couple: NP1:ϕ_s360.00000°,δ51.00000° ,λ-96.00000°. NP2:ϕ_s190.00000°,δ39.00000°,λ-82.00000°. Principal axes: T 6.1880,Plg6.0000°,Azm94.0000°; N 0.0920,Plg5.0000°,Azm4.0000° ; P -6.2830,Plg82.0000°,Azm234.0000° $M_0$6.23500×10^{16}

ISC I 07 01 19 16.7–.29 20.12N–.06 45.66W–.05 9 5.1b,4.9s 784 15-176
ISCJB I 07 01 19 14.9–.18 20.16N–.03 45.70W–.02 9 5.0b,4.9s **¶15908414**
IDC I 07 01 19 14.8–.40 20.18N 45.73W 0 4.9,4.9s
MOS I 07 01 19 15.2–1.1 20.19N 45.74W 10 5.1b,4.6s
BJI I 07 01 19 16.0 20.10N 45.60W 10 5.7b,5.4s
GCMT I 07 01 19 16.7–.10 20.30N 45.60W 12 5.5W,5.4s
NEIC I 07 01 19 16.7–.17 20.11N 45.62W 10 5.2b,5.4s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=2.5km az=173.9.
IDC Error ellipse: s-maj=12.1km s-min=9.9km az=156.0.
MOS Error ellipse: s-maj=8.2km s-min=5.5km az=48.3.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c110; s131,c262; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.76±.02 $M_{\theta\theta}$-0.05±.02; $M_{\phi\phi}$1.81±.02; $M_{r\theta}$-0.09±.07; $M_{\theta\phi}$0.27±.02; $M_{\phi r}$-0.53±.06; Best double couple: NP1:$\phi_9$9.00000°,δ53.00000°,λ-90.00000°. NP2:ϕ_s188.00000°,δ37.00000°,λ-91.00000°. Principal axes: T 1.9260,Plg8.0000°,Azm98.0000°; N -0.0870,Plg0.0000°,Azm188.0000°; P -1.8370,Plg82.0000°,Azm281.0000° $M_0$1.88200×10^{17}
NEIC Event type se. Error ellipse: s-maj=4.9km s-min=3.0km az=176.0.
IDC I 09 19 45 13.1–4.0 12.68N 44.51W 0 4.2s,4.2
¶17189789

IDC Error ellipse: s-maj=121.4km s-min=42.2km az=16.0.
ISC I 11 13 55 48.0–1.0 52.2N–.20 31.7W–.10 14 3.7b,3.6s 13 23-149
ISCJB I 11 13 55 46.5–.96 52.3N–.20 31.7W–.20 14 3.7s,3.6b **¶17189922**
IDC I 11 13 55 46.0–1.0 52.22N 31.71W 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.9km s-min=14.9km az=27.3.
IDC Error ellipse: s-maj=35.4km s-min=17.6km az=24.0.
ISC I 18 07 49 44.1–.35 34.36N–.07 36.83W–.05 12 4.9b,4.2s 631 7-110
IDC I 18 07 49 42.0–.47 34.42N 36.88W 0 4.4,4.3 **¶15933582**
MOS I 18 07 49 42.0–.99 34.40N 36.91W 10 4.7b,4.3
BJI I 18 07 49 42.1 34.40N 36.90W 10 5.7b,5.2s
ISCJB I 18 07 49 42.3–.21 34.43N–.05 36.97W–.02 12 4.8b,4.3s
NEIC I 18 07 49 44.0–.17 34.42N 36.84W 10 5.0b,4.3s
PDA I 18 07 49 43.9 34.12N 36.84W 10 5.0b,4.3s
CSEM I 18 07 49 44.0–.11 34.47N 36.83W 10 5.0b,4.3s
GCMT I 18 07 49 44.0–.20 34.44N 36.87W 12 5.1W,4.3s
ISC Event type ke.
IDC Error ellipse: s-maj=13.4km s-min=11.0km az=166.0.
MOS Error ellipse: s-maj=12.8km s-min=6.4km az=57.6.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=2.8km az=173.7.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=2.9km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=3.4km az=175.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c49; s108,c179; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.14±.12 $M_{\theta\theta}$3.04±.13; $M_{\phi\phi}$3.11±.10; $M_{r\theta}$0.98±.43; $M_{\theta\phi}$2.95±.09; $M_{\phi r}$-0.27±.41; Best double couple: NP1:ϕ_s233.00000°,δ48.00000°,λ-79.00000°. NP2:ϕ_s37.00000°,δ43.00000°,λ-102.00000°. Principal axes: T 6.0460,Plg2.0000°,Azm315.0000°; N 0.2470,Plg8.0000°,Azm45.0000°; P -6.2830,Plg82.0000°,Azm208.0000° $M_0$6.16400×10^{16}
ISC I 21 02 19 38.2–.41 49.92N–.07 30.90W–.05 10 4.5b,3.8s 291 16-152
BJI I 21 02 19 35.6 49.90N 30.90W 10 5.1b,5.1s **¶15957988**
IDC I 21 02 19 36.8–.51 49.92N 30.90W 0 4.2,4.1L
ISCJB I 21 02 19 36.6–.27 49.90N–.06 30.89W–.04 10 4.5b,3.7s
MOS I 21 02 19 36.5–.74 49.93N 30.90W 10 4.8b,3.7s
CSEM I 21 02 19 38.3–.10 49.95N 30.89W 10 4.6b,3.7s
NEIC I 21 02 19 38.5–.19 49.90N 30.89W 10 4.7b,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=16.3km s-min=10.1km az=14.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=3.9km az=6.2.
MOS Error ellipse: s-maj=9.4km s-min=6.7km az=55.7.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=3.1km az=5.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.3km az=187.0.
ISC I 23 20 28 50.7–2.0 27.2N–.40 44.4W–.20 22 3.9b,3.6s 12 22-92
IDC I 23 20 28 47.5–2.1 27.27N 44.36W 0 4.0,3.8 **¶17190831**
ISCJB I 23 20 28 49.2–1.7 27.3N–.30 44.4W–.20 22 3.9b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 05 58 09.2–.62 52.1N–.10 30.06W–.08 14 3.9b,3.4s 32 14-149
ISCJB I 30 05 58 07.7–.52 52.11N–.09 30.04W–.10 14 3.9b,3.4s **¶16136176**
IDC I 30 05 58 07.5–.72 52.10N 30.04W 0 4.2L,3.9
NEIC I 30 05 58 09.0–.39 52.12N 30.01W 10 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=7.8km az=18.3.
IDC Error ellipse: s-maj=19.9km s-min=12.7km az=14.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=6.5km az=195.0.
IDC II 15 22 43 14.4–3.8 22.13N 45.10W 0 3.9,3.7
¶17192327

IDC Error ellipse: s-maj=168.5km s-min=30.4km az=24.0.
IDC II 16 15 52 31.9–2.0 22.83N 44.80W 0 4.1,3.8b
¶17192374

IDC Error ellipse: s-maj=68.9km s-min=23.6km az=15.0.
ISC II 17 00 07 04.8–.56 22.4N–.10 45.18W–.08 14 4.3b,3.9s 39 16-75
ISCJB II 17 00 07 02.7–.42 22.29N–.09 45.17W–.06 14 4.3b,3.8s **¶16398376**
IDC II 17 00 07 02.9–.71 22.42N 45.08W 0 4.2,3.9
NEIC II 17 00 07 04.0–.41 22.30N 45.17W 10 4.7b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=7.6km az=177.2.
IDC Error ellipse: s-maj=20.9km s-min=18.1km az=2.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.9km az=175.0.
ISC II 19 01 54 16.5–.78 10.7N–.20 41.3W–.10 18 4.1b,3.7s 21 17-87
IDC II 19 01 54 13.9–.90 10.68N 41.29W 0 4.0,3.9b **¶16310790**
ISCJB II 19 01 54 14.8–.56 10.7N–.10 41.31W–.09 18 4.0b,3.6s
NEIC II 19 01 54 15.3–.52 10.74N 41.30W 10 4.3b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=30.1km s-min=18.6km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=17.6km s-min=11.8km az=163.4.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=10.8km az=163.0.
ISC II 19 14 42 06.4–.51 46.92N–.09 27.17W–.06 10 4.5b,3.8s 152 15-152
MOS II 19 14 42 04.7–1.3 46.94N 27.31W 10 4.9b,3.8s **¶16056984**
IDC II 19 14 42 04.9–.61 46.93N 27.19W 0 4.3L,4.3
ISCJB II 19 14 42 04.5–.39 46.86N–.06 27.29W–.06 10 4.5b,3.8s
NEIC II 19 14 42 06.4–.33 46.97N 27.18W 10 4.6b,3.8s
CSEM II 19 14 42 06.3–.21 46.98N 27.19W 10 4.7b,3.8s
BJI II 19 14 42 06.0 46.90N 27.30W 10 5.2b,5.0s
ISC Event type ke.
MOS Error ellipse: s-maj=11.6km s-min=6.7km az=53.1.
IDC Error ellipse: s-maj=18.9km s-min=10.4km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.1km az=23.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=5.1km az=197.0.
CSEM Event type ke. Error ellipse: s-maj=11.1km s-min=6.4km az=16.0.
ISC II 23 12 20 16.5–1.1 34.4N–.20 36.9W–.10 12 4.0b,3.7s 25 26-92
ISCJB II 23 12 20 14.7–.91 34.4N–.20 36.93W–.09 12 4.0b,3.7s **¶17192743**
IDC II 23 12 20 14.8–1.3 34.49N 36.88W 0 4.2,4.0
NEIC II 23 12 20 16.1–.67 34.41N 36.91W 10 4.6b,4.0
GCMT II 23 12 20 24.0–.50 34.73N 36.77W 14–1 4.8W,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.4km s-min=10.4km az=5.6.
IDC Error ellipse: s-maj=40.9km s-min=16.3km az=6.0.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=7.8km az=5.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c27; s63,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.75±.14 $M_{\theta\theta}$1.02±.11; $M_{\phi\phi}$0.73±.09; $M_{r\theta}$0.50±.23; $M_{\theta\phi}$0.66±.06; $M_{\phi r}$-0.83±.19; Best double couple: NP1:ϕ_s29.00000°,δ52.00000°,λ-119.00000°. NP2:ϕ_s251.00000°,δ47.00000°,λ-59.00000°. Principal axes: T 1.5570,Plg3.0000°,Azm139.0000°; N 0.5900,Plg22.0000°,Azm48.0000°; P -2.1460,Plg68.0000°,Azm236.0000° $M_0$1.85200×10^{16}
ISC II 26 05 49 40.4–.48 52.18N–.08 31.33W–.06 14 4.2b,3.7s 90 14-149
ISCJB II 26 05 49 38.4–.34 52.15N–.06 31.36W–.06 14 4.2b,3.6s **¶16168144**
IDC II 26 05 49 38.1–.53 52.15N 31.34W 0 4.2,4.1L
NEIC II 26 05 49 39.6–.28 52.15N 31.37W 10 4.6b,4.1L
CSEM II 26 05 49 39.5–.16 52.22N 31.35W 10 4.6b,4.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.2km az=15.5.
IDC Error ellipse: s-maj=15.8km s-min=10.0km az=4.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=4.7km az=187.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=5.3km az=17.0.
IDC II 28 06 47 27.1–1.3 33.14N 39.34W 0 4.0,3.7b
¶17192984

IDC Error ellipse: s-maj=48.8km s-min=22.8km az=19.0.
IDC II 28 13 22 53.4–.86 22.71N 45.06W 0 4.1,3.8b
¶17192999

IDC Error ellipse: s-maj=27.4km s-min=19.8km az=176.0.
ISC III 11 17 45 18.8–.73 28.5N–.20 43.6W–.10 12 4.4b 27 29-70
IDC III 11 17 45 16.9–.88 28.56N 43.62W 0 4.2,4.0 **¶16442237**
ISCJB III 11 17 45 17.0–.53 28.5N–.10 43.64W–.08 12 4.3b,4.0
NEIC III 11 17 45 18.5–.42 28.44N 43.64W 10 4.7b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=30.1km s-min=18.4km az=20.0.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=9.2km az=14.7.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=7.3km az=194.0.
ISC III 11 19 43 30.6–.63 28.5N–.10 43.64W–.10 12 4.4b 26 21-81
ISCJB III 11 19 43 28.8–.51 28.5N–.10 43.71W–.08 12 4.4b **¶16476145**
IDC III 11 19 43 28.7–.87 28.44N 43.64W 0 4.4,4.2
NEIC III 11 19 43 30.3–.53 28.47N 43.68W 10 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=10.2km az=10.9.
IDC Error ellipse: s-maj=29.0km s-min=16.2km az=12.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=10.7km az=192.0.
IDC III 11 20 10 26.7–1.2 27.94N 43.75W 0 3.9,3.7
¶17194076

IDC Error ellipse: s-maj=33.4km s-min=24.3km az=18.0.
ISC III 11 20 12 22.7–.57 28.5N–.10 43.54W–.08 12 4.5b 36 21-90
ISCJB III 11 20 12 20.9–.47 28.48N–.09 43.60W–.07 12 4.4b **¶16451985**
IDC III 11 20 12 20.5–.69 28.40N 43.63W 0 4.3,4.2
NEIC III 11 20 12 22.3–.44 28.47N 43.57W 10 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=8.5km az=178.8.
IDC Error ellipse: s-maj=19.3km s-min=13.9km az=1.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.2km az=178.0.
ISC III 11 20 17 01.9–.87 28.4N–.20 43.6W–.10 12 4.2b 11 31-87
ISCJB III 11 20 17 00.4–.74 28.4N–.20 43.6W–.10 12 4.1b **¶17194077**
IDC III 11 20 17 00.1–.89 28.38N 43.61W 0 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=16.7km az=11.3.
IDC Error ellipse: s-maj=27.7km s-min=20.9km az=10.0.
ISC III 16 07 37 20.0–.57 28.4N–.10 43.66W–.08 12 4.7b,4.3s 328 16-126
IDC III 16 07 37 17.6–.66 28.38N 43.73W 0 4.4,4.3b **¶16327718**
MOS III 16 07 37 17.6–1.2 28.39N 43.70W 10 4.9b,4.3b
ISCJB III 16 07 37 18.3–.37 28.43N–.08 43.74W–.03 12 4.6b,4.1s
BJI III 16 07 37 19.6 28.50N 43.70W 10 4.9b,4.1s
NEIC III 16 07 37 19.7–.27 28.35N 43.67W 10 4.8b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=13.7km az=171.0.
MOS Error ellipse: s-maj=11.0km s-min=8.6km az=61.1.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=4.0km az=174.9.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=3.8km az=175.0.
ISC III 16 07 38 14.6–.69 28.3N–.10 43.7W–.10 12 4.3b 32 44-91
IDC III 16 07 38 12.9–.74 28.36N 43.73W 0 4.3,4.1 **¶17196381**
ISCJB III 16 07 38 13.3–.55 28.4N–.10 43.70W–.08 12 4.3b,4.1
NEIC III 16 07 38 14.6–.36 28.38N 43.68W 10 4.6b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=23.1km s-min=16.2km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=9.7km az=176.1.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.6km az=176.0.
IDC III 16 07 40 55.3–6.2 28.51N 43.19W 0 3.9,3.6
¶17196382

IDC Error ellipse: s-maj=198.0km s-min=34.7km az=87.0.
IDC III 16 07 42 55.5–1.1 28.44N 43.78W 0 3.9,3.6
¶17196384

IDC Error ellipse: s-maj=36.3km s-min=26.7km az=45.0.
ISC III 16 07 47 37.5–.88 28.4N–.20 43.8W–.10 14 3.8b 13 45-86
IDC III 16 07 47 35.3–.93 28.40N 43.76W 0 4.1,3.8 **¶17196385**
ISCJB III 16 07 47 35.8–.75 28.4N–.20 43.8W–.10 14 3.8b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC III 16 07 49 40.5–2.8 28.72N 43.65W 0 3.7,3.4
¶17196386

IDC Error ellipse: s-maj=134.6km s-min=27.6km az=28.0.
ISC III 16 07 54 49.9–.89 28.4N–.20 43.7W–.10 12 3.9b 9 45-76
IDC III 16 07 54 48.0–.97 28.42N 43.75W 0 3.9,3.7 **¶17196388**
ISCJB III 16 07 54 48.1–.79 28.5N–.20 43.7W–.10 12 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 16 07 55 40.8–4.1 28.45N 43.63W 0 3.9,3.6
¶17196391

IDC Error ellipse: s-maj=138.0km s-min=32.6km az=90.0.
ISC III 16 13 21 47.8–.94 12.0N–.20 46.3W–.20 10 4.2b 7 37-84
IDC III 16 13 21 46.2–1.1 12.04N 46.26W 0 4.2,4.1 **¶17196463**
ISCJB III 16 13 21 46.1–.85 12.1N–.20 46.3W–.20 10 4.1b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 23 17 05 46.9–.39 15.28N–.07 45.35W–.07 10 4.7b,4.2s 95 15-175
ISCJB III 23 17 05 45.1–.28 15.30N–.05 45.33W–.04 10 4.7b,4.1s **¶16462142**
IDC III 23 17 05 45.2–.41 15.38N 45.32W 0 4.5,4.4b
NEIC III 23 17 05 46.8–.21 15.33N 45.27W 10 5.0b,4.4b
GCMT III 23 17 05 46.8–.30 15.21N 45.09W 12 4.9W,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=5.8km az=159.3.
IDC Error ellipse: s-maj=13.1km s-min=10.5km az=119.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=5.4km az=159.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c26; s83,c120; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.83±.09 $M_{\theta\theta}$-0.43±.10; $M_{\phi\phi}$1.26±.10; $M_{r\theta}$0.92±.29; $M_{\theta\phi}$-2.80±.07; $M_{\phi r}$0.65±.25; Best double couple: NP1:ϕ_s282.00000°,δ72.00000°,λ-160.00000°. NP2:ϕ_s185.00000°,δ71.00000°,λ-19.00000°. Principal axes: T 3.3390,Plg0.0000°,Azm53.0000°; N -0.2640,Plg63.0000°,Azm323.0000°; P -3.0770,Plg27.0000°,Azm144.0000° $M_0$3.20800×10^{16}
ISC III 24 01 00 17.5–.47 15.86N–.10 46.60W–.08 10 4.4b,3.8s 36 13-93
ISCJB III 24 01 00 15.8–.35 15.86N–.07 46.62W–.06 10 4.2b,3.8s **¶16452773**
IDC III 24 01 00 16.0–.50 15.87N 46.61W 0 4.4,4.4L
NEIC III 24 01 00 17.6–.27 15.86N 46.60W 10 4.6b,4.4L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=7.5km az=153.5.
IDC Error ellipse: s-maj=14.9km s-min=12.6km az=158.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.8km az=153.0.
IDC III 26 21 02 13.6–1.8 30.24N 41.95W 0 3.9,3.6b
¶17198686

IDC Error ellipse: s-maj=67.7km s-min=23.8km az=15.0.
ISC III 27 03 19 19.0–.53 10.2N–.10 40.88W–.09 10 4.2b,3.7s 31 17-88
IDC III 27 03 19 17.3–.62 10.21N 40.83W 0 4.1,4.0b **¶16481128**
ISCJB III 27 03 19 17.3–.42 10.25N–.07 40.89W–.07 10 4.0b,3.8s
NEIC III 27 03 19 19.2–.33 10.27N 40.90W 10 4.4b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=19.1km s-min=14.4km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=9.7km az=142.8.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=7.9km az=140.0.
IDC IV 03 17 51 00.6–1.1 16.53N 46.40W 0 4.0,3.7b
¶17199680

IDC Error ellipse: s-maj=29.8km s-min=27.7km az=16.0.
ISC IV 04 22 15 47.5–4.0 50.0N–.20 27.5W–.60 10 4.0b,3.1s 6 20-66
IDC IV 04 22 15 45.6–4.5 49.99N 27.61W 0 3.9b,3.8 **¶17199815**

ISC Event type ke.
IDC Error ellipse: s-maj=109.2km s-min=31.3km az=81.0.
ISC IV 09 01 51 42.3–.84 16.6N–.10 46.5W–.10 13 4.2b,3.4s 18 14-79
ISCJB IV 09 01 51 40.4–.70 16.7N–.10 46.5W–.10 13 4.1b,3.5s **¶16529578**
IDC IV 09 01 51 40.4–.99 16.64N 46.55W 0 4.2,4.0
NEIC IV 09 01 51 41.9–.51 16.63N 46.50W 10 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=15.9km az=23.3.
IDC Error ellipse: s-maj=28.0km s-min=23.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.7km s-min=11.8km az=115.0.
ISC IV 09 02 02 53.7–.95 16.5N–.20 46.5W–.20 13 4.0b,3.1s 13 14-80
ISCJB IV 09 02 02 51.9–.78 16.5N–.10 46.5W–.20 13 3.9b,3.0s **¶16529580**
IDC IV 09 02 02 51.6–1.0 16.50N 46.60W 0 4.0,3.8b
NEIC IV 09 02 02 53.2–.69 16.47N 46.50W 10 4.1b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.9km s-min=17.1km az=166.0.
IDC Error ellipse: s-maj=30.6km s-min=24.6km az=87.0.
NEIC Event type se. Error ellipse: s-maj=19.2km s-min=14.9km az=80.0.
IDC IV 10 10 32 30.0–1.6 34.67N 36.59W 0 3.7,3.4
¶17200450
IDC Error ellipse: s-maj=95.7km s-min=27.9km az=29.0.
ISC IV 10 20 15 21.2–.95 14.7N–.20 45.2W–.30 12 4.0b,3.1s 8 20-82
ISCJB IV 10 20 15 19.2–.82 14.7N–.10 45.2W–.20 12 3.9b,3.1s **¶16506279**
IDC IV 10 20 15 19.2–.98 14.69N 45.23W 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.9km s-min=17.2km az=20.7.
IDC Error ellipse: s-maj=38.6km s-min=22.3km az=106.0.
ISC IV 14 01 51 49.6–2.9 27.1N–.60 44.6W–.20 16 3.9b,3.9s 14 22-88
IDC IV 14 01 51 47.2–3.0 27.12N 44.56W 0 4.0,3.8 **¶17200977**
ISCJB IV 14 01 51 48.5–2.4 27.3N–.50 44.6W–.10 16 3.9b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 15 00 28 01.8–.55 30.1N–.10 42.16W–.08 10 4.3b,4.1s 55 23-89
ISCJB IV 15 00 28 00.1–.37 30.09N–.08 42.17W–.05 10 4.3b,4.0s **¶16445520**
IDC IV 15 00 28 00.2–.58 30.08N 42.15W 0 4.3,4.1
NEIC IV 15 00 28 01.8–.28 30.08N 42.15W 10 4.7b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=6.7km az=172.4.
IDC Error ellipse: s-maj=16.3km s-min=13.5km az=1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.3km az=185.0.
IDC IV 17 05 41 25.4–2.6 22.76N 45.41W 0 3.9,3.6
¶17201285
IDC Error ellipse: s-maj=81.7km s-min=24.3km az=14.0.
IDC IV 17 05 55 13.4–10 21.12N 46.19W 0 3.7,3.6b
¶17201288
IDC Error ellipse: s-maj=386.2km s-min=35.6km az=27.0.
IDC IV 19 12 46 14.0–2.1 30.75N 41.42W 0 3.9,3.6
¶17201500
IDC Error ellipse: s-maj=62.3km s-min=22.3km az=15.0.
ISC IV 19 20 30 29.4–.35 43.69N–.06 28.93W–.05 14 4.7b,4.2s 604 6-146
MOS IV 19 20 30 28.1–.88 43.82N 28.96W 12 4.7b,4.1s **¶16448726**
BJI IV 19 20 30 28.8 44.59N 29.45W 11 5.0b,5.0b
IDC IV 19 20 30 28.0–.59 43.80N 28.89W 0 4.6L,4.4
ISCJB IV 19 20 30 28.3–.17 43.74N–.05 28.98W–.02 14 4.6b,4.2s
CSEM IV 19 20 30 29.3–.11 43.77N 28.95W 10 4.7b,4.2s
GCMT IV 19 20 30 29.2–.20 43.68N 28.73W 13–1 5.0W,4.2s
NEIC IV 19 20 30 29.2–.19 43.70N 28.93W 10 4.8b,4.2s
ISC Event type ke.
MOS Error ellipse: s-maj=8.9km s-min=6.3km az=47.1.
IDC Error ellipse: s-maj=17.0km s-min=11.4km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=2.2km az=1.8.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=2.8km az=5.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c52; s108,c162; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.00±.10 $M_{\theta\theta}$0.84±.10; $M_{\phi\phi}$0.16±.08; $M_{r\theta}$0.54±.22; $M_{\theta\phi}$3.32±.08; $M_{\phi r}$0.13±.19; Best double couple: NP1:ϕ_s273.00000°,δ88.00000°,λ-10.00000°. NP2:ϕ_s3.00000°,δ80.00000°,λ-178.00000°. Principal axes: T 3.8860,Plg6.0000°,Azm318.0000°; N -1.0090,Plg80.0000°,Azm83.0000°; P -2.8760,Plg8.0000°,Azm227.0000° M_o3.38100×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=2.9km az=183.0.
ISC IV 20 05 21 06.7–.61 30.8N–.10 41.57W–.08 13 4.4b,3.6s 82 26-172
ISCJB IV 20 05 21 04.9–.45 30.80N–.10 41.60W–.06 13 4.4b,3.6s **¶16450786**
IDC IV 20 05 21 04.4–.83 30.78N 41.55W 0 4.2,4.0
MOS IV 20 05 21 04.0–.98 30.72N 41.58W 10 4.6b,4.0
NEIC IV 20 05 21 06.2–.34 30.82N 41.55W 10 4.6b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=6.8km az=169.6.
IDC Error ellipse: s-maj=25.5km s-min=15.5km az=176.0.
MOS Error ellipse: s-maj=14.6km s-min=6.7km az=49.5.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.6km az=177.0.
ISC IV 22 14 43 28.1–.61 15.6N–.10 46.66W–.10 17 4.3b,3.6s 22 14-82
IDC IV 22 14 43 25.5–.61 15.66N 46.58W 0 4.3,4.1 **¶16596724**
ISCJB IV 22 14 43 26.2–.48 15.7N–.10 46.69W–.08 17 4.1b,3.6s
NEIC IV 22 14 43 26.9–.47 15.67N 46.66W 10 4.1b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=20.8km s-min=14.9km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=9.4km az=150.2.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=9.5km az=150.0.
IDC IV 23 19 51 52.8–5.0 22.44N 45.12W 0 3.8,3.6
¶17201902
IDC Error ellipse: s-maj=139.7km s-min=25.8km az=172.0.
IDC IV 25 02 59 45.7–2.5 23.52N 45.14W 0 3.8,3.6
¶17202006
IDC Error ellipse: s-maj=79.1km s-min=24.8km az=16.0.
ISC IV 25 07 39 56.1–.82 49.5N–.20 28.48W–.10 17 3.9b,3.5s 24 16-151
IDC IV 25 07 39 53.1–.91 49.48N 28.54W 0 4.0L,3.9 **¶16649377**
ISCJB IV 25 07 39 54.1–.69 49.5N–.10 28.5W–.10 17 3.8b,3.5s
NEIC IV 25 07 39 54.9–.53 49.51N 28.49W 10 4.4b,3.5s
CSEM IV 25 07 39 54.9 49.51N 28.49W 10 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=29.1km s-min=15.1km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=20.0km s-min=9.7km az=12.2.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=8.1km az=192.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC IV 27 01 26 14.7–1.9 33.12N 39.33W 0 3.7,3.4
¶17202201
IDC Error ellipse: s-maj=52.5km s-min=26.9km az=16.0.
ISC IV 29 09 13 25.8–.56 28.2N–.10 46.3W–.10 10 4.3b,3.0s 35 21-88
ISCJB IV 29 09 13 24.2–.44 28.13N–.08 46.28W–.08 10 4.2b,3.2s **¶16505576**
IDC IV 29 09 13 24.4–.56 28.15N 46.30W 0 4.3,4.1
NEIC IV 29 09 13 26.0–.31 28.14N 46.28W 10 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=10.2km az=160.2.
IDC Error ellipse: s-maj=17.3km s-min=14.1km az=129.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.2km az=164.0.
ISC V 01 18 51 04.5–1.4 31.7N–.30 40.8W–.10 14 3.6b 11 30-83
ISCJB V 01 18 51 02.7–1.2 31.7N–.30 40.8W–.10 14 3.5b,3.5s **¶17202551**
IDC V 01 18 51 02.3–1.5 31.66N 40.78W 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.4km s-min=16.7km az=4.2.
IDC Error ellipse: s-maj=48.4km s-min=19.6km az=2.0.
IDC V 03 23 55 09.4–1.1 24.31N 46.06W 0 3.9,3.8b
¶17202720
IDC Error ellipse: s-maj=34.1km s-min=21.9km az=155.0.
IDC V 04 17 35 21.9–1.8 52.05N 30.33W 0 4.2L,3.6
¶16708821
IDC Error ellipse: s-maj=45.6km s-min=31.1km az=48.0.
ISC V 05 03 35 13.2–.85 52.1N–.20 30.34W–.10 10 3.6b,3.2s 14 16-66
ISCJB V 05 03 35 11.4–.73 52.1N–.10 30.4W–.10 10 3.5b,3.2s **¶17202810**
IDC V 05 03 35 11.8–.90 52.08N 30.33W 0 4.4L,3.7
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=11.0km az=7.1.
IDC Error ellipse: s-maj=26.9km s-min=15.1km az=10.0.
ISC V 06 16 20 39.8–.51 32.34N–.05 40.18W–.04 12–2 5.1b,4.6s 993 19-178
BJI V 06 16 20 35.9 32.54N 40.93W 7 5.6b,5.1b **¶16497808**
ISCJB V 06 16 20 38.4–.15 32.36N–.03 40.20W–.02 13 5.0b,4.5s
IDC V 06 16 20 38.1–.32 32.38N 40.17W 0 4.8,4.7
MOS V 06 16 20 38.2–.98 32.37N 40.15W 10 5.2b,4.4s
GCMT V 06 16 20 39.6–.20 32.46N 40.15W 12 5.3W,4.4s
NEIC V 06 16 20 39.6–.19 32.33N 40.08W 10 5.2b,4.4s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=1.9km az=173.9.
IDC Error ellipse: s-maj=11.4km s-min=8.4km az=133.0.
MOS Error ellipse: s-maj=6.5km s-min=4.6km az=53.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s55,c70; s117,c203; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.91±.01 $M_{\theta\theta}$0.09±.01; $M_{\phi\phi}$0.82±.01; $M_{r\theta}$0.42±.05; $M_{\theta\phi}$0.27±.01; $M_{\phi r}$-0.26±.04; Best double couple: NP1:ϕ_s356.00000°,δ53.00000°,λ-119.00000°. NP2:ϕ_s219.00000°,δ45.00000°,λ-57.00000°. Principal axes: T 0.9180,Plg4.0000°,Azm106.0000°; N 0.2040,Plg23.0000°,Azm14.0000°; P -1.1210,Plg67.0000°,Azm206.0000° M_o1.01900×10^{17}
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.4km az=173.0.
IDC V 10 00 42 29.8–1.1 25.16N 45.48W 0 3.8,3.6
¶17203158
IDC Error ellipse: s-maj=31.9km s-min=24.3km az=8.0.
IDC V 10 01 12 51.7–.96 25.14N 45.50W 0 4.0,3.7
¶17203160
IDC Error ellipse: s-maj=29.6km s-min=21.2km az=179.0.
IDC V 12 20 11 16.0–2.0 46.67N 27.93W 0 4.7L,3.7
¶17203501
IDC Error ellipse: s-maj=111.0km s-min=29.6km az=40.0.
IDC V 14 23 45 28.4–1.3 50.85N 30.16W 0 3.6,3.4
¶17203646
IDC Error ellipse: s-maj=51.9km s-min=21.0km az=25.0.
IDC V 14 23 46 23.0–1.1 50.85N 30.21W 0 3.8,3.6b
¶17203649
IDC Error ellipse: s-maj=61.3km s-min=21.9km az=19.0.
ISC V 18 01 18 26.5–.79 16.5N–.10 46.7W–.20 13 4.1b,3.3s 15 14-85
ISCJB V 18 01 18 24.8–.64 16.48N–.09 46.8W–.10 13 4.0b,3.4s **¶16591590**
IDC V 18 01 18 24.6–1.0 16.47N 46.67W 0 4.1,3.9b
NEIC V 18 01 18 26.0–.51 16.47N 46.72W 10 4.2b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=13.3km az=8.0.
IDC Error ellipse: s-maj=35.9km s-min=20.9km az=107.0.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=10.6km az=99.0.
ISC V 20 16 12 07.2–.92 23.0N–.20 45.0W–.10 21 3.8b,3.5s 10 20-74
IDC V 20 16 12 04.0–1.0 22.98N 44.97W 0 4.0,3.7 **¶17204057**
ISCJB V 20 16 12 05.4–.79 23.0N–.20 45.0W–.10 21 3.8b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC V 21 16 30 30.9–.65 31.28N–.07 41.09W–.06 13–3 4.9b,3.9s 481 20-171
IDC V 21 16 30 28.9–.43 31.30N 41.10W 0 4.5,4.4 **¶16531804**
BJI V 21 16 30 28.8 31.30N 41.00W 10 5.2b,4.8b
MOS V 21 16 30 29.0–.97 31.30N 41.07W 10 5.1b,4.1s
ISCJB V 21 16 30 30.3–.24 31.28N–.06 41.08W–.02 19 4.8b,3.9s
GCMT V 21 16 30 30.4–.40 31.49N 40.98W 14–1 5.0W,3.9s
NEIC V 21 16 30 30.4–.26 31.25N 41.02W 10 5.0b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.0km az=160.0.
MOS Error ellipse: s-maj=8.3km s-min=5.0km az=51.9.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=2.5km az=175.4.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s11,c12; s87,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.79±.24 $M_{\theta\theta}$1.26±.17; $M_{\phi\phi}$1.53±.15; $M_{r\theta}$-0.66±.43; $M_{\theta\phi}$1.44±.09; $M_{\phi r}$-1.92±.38; Best double couple: NP1:ϕ_s29.00000°,δ63.00000°,λ-102.00000°. NP2:ϕ_s235.00000°,δ29.00000°,λ-67.00000°. Principal axes: T 3.4180,Plg17.0000°,Azm128.0000°; N 0.1050,Plg11.0000°,Azm35.0000°; P -3.5220,Plg70.0000°,Azm274.0000° M_o3.47000×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=4.0km az=178.0.
IDC VI 01 07 26 46.0–2.0 43.03N 29.22W 0 3.7,3.6b
¶17204869
IDC Error ellipse: s-maj=62.2km s-min=29.6km az=40.0.
ISC VI 04 10 18 06.0–.60 29.1N–.10 43.2W–.10 10 4.3b,3.8s 36 24-152
ISCJB VI 04 10 18 04.3–.43 29.06N–.09 43.23W–.07 10 4.2b,3.8s **¶16725940**
IDC VI 04 10 18 04.4–.69 29.06N 43.21W 0 4.2,4.1b
NEIC VI 04 10 18 06.0–.27 29.07N 43.20W 10 4.5b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=8.2km az=172.5.
IDC Error ellipse: s-maj=22.0km s-min=15.4km az=166.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.4km az=173.0.
ISC VI 05 20 27 26.5–1.2 44.5N–.20 28.2W–.20 20 3.6b,3.4s 7 27-80
IDC VI 05 20 27 23.5–1.3 44.52N 28.17W 0 3.7,3.6b **¶17205354**
ISCJB VI 05 20 27 24.6–1.0 44.5N–.20 28.2W–.20 20 3.6b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 07 15 43 54.7–.73 10.8N–.20 41.1W–.10 10 4.3b,3.7s 19 20-87
ISCJB VI 07 15 43 53.1–.56 10.8N–.10 41.07W–.09 10 4.2b,3.7s **¶16679580**
IDC VI 07 15 43 53.2–.76 10.83N 41.08W 0 4.3,4.1b
NEIC VI 07 15 43 54.8–.55 10.79N 41.07W 10 4.5b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=12.1km az=160.2.
IDC Error ellipse: s-maj=27.5km s-min=16.4km az=164.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=11.9km az=160.0.
IDC VI 17 06 14 06.2–1.1 48.75N 27.93W 0 3.8,3.6b
¶17206369
IDC Error ellipse: s-maj=39.8km s-min=27.1km az=16.0.
ISC VI 21 16 02 28.9–.90 23.8N–.20 45.4W–.10 12 4.0b,3.4s 9 20-96
ISCJB VI 21 16 02 27.3–.77 23.8N–.20 45.4W–.10 12 3.9b,3.5s **¶17206684**
IDC VI 21 16 02 27.1–.99 23.77N 45.35W 0 4.1,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.6km s-min=16.4km az=175.6.
IDC Error ellipse: s-maj=31.3km s-min=20.4km az=1.0.
ISC VI 23 16 50 06.5–.57 34.6N–.10 36.86W–.08 12 4.4b,3.5s 101 27-92
ISCJB VI 23 16 50 04.6–.39 34.56N–.09 36.87W–.06 12 4.3b,3.4s **¶16731313**
IDC VI 23 16 50 05.2–.84 34.64N 36.83W 0 4.1,4.0
NEIC VI 23 16 50 06.1–.35 34.56N 36.81W 10 4.6b,4.0
CSEM VI 23 16 50 06.2–.21 34.60N 36.82W 10 4.6b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.4km s-min=6.3km az=170.9.
IDC Error ellipse: s-maj=25.9km s-min=17.6km az=163.0.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=5.8km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=13.1km s-min=6.7km az=169.0.
IDC VI 28 03 24 59.7–1.6 30.76N 41.68W 0 3.8,3.6
¶17207110
IDC Error ellipse: s-maj=52.6km s-min=22.5km az=7.0.

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PDA I 02 11 48 50.4–.78 36.88N 24.25W 10 3.8,3.0L
CSEM I 02 11 48 50.4 36.88N 24.25W 10 3.0L,3.0L **¶16876223**
PDA Event type ke. Error ellipse: s-maj=5.5km s-min=4.1km az=76.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 18 16 48 07.9–.76 37.47N 24.71W 5 3.7,3.0L
CSEM I 18 16 48 07.9 37.47N 24.71W 5 3.0L,3.0L **¶16871454**
PDA Event type ke. Error ellipse: s-maj=5.7km s-min=1.7km az=78.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 23 01 59 03.7–1.1 36.96N 24.05W 10 4.0,3.4L
CSEM I 23 01 59 03.7 36.96N 24.05W 10 3.4L,3.4L **¶16871543**
PDA Event type ke. Error ellipse: s-maj=7.0km s-min=5.3km az=59.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA II 03 19 02 59.7–1.1 36.94N 24.39W 5 3.7,2.8L
CSEM II 03 19 02 59.7 36.94N 24.39W 5 2.8L,2.8L **¶16871721**
PDA Event type ke. Error ellipse: s-maj=6.6km s-min=5.3km az=104.0.

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC II 21 20 08 15.7–1.5 36.8N–.30 32.9W–.20 10 3.6b 11 29-81
ISCJB II 21 20 08 14.2–1.3 36.8N–.30 33.0W–.20 10 3.8b,3.4s ¶17192657
IDC II 21 20 08 14.2–1.7 36.78N 32.93W 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.7km s-min=16.0km az=154.4.
IDC Error ellipse: s-maj=57.7km s-min=20.8km az=156.0.
PDA III 13 23 25 56.5–.37 37.51N 24.82W 4–3 3.7,2.6L
CSEM III 13 23 25 56.5 37.51N 24.82W 4 2.6L,2.6L ¶16872364
PDA Event type ke. Error ellipse: s-maj=5.9km s-min=1.0km az=72.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 01 07 12 27.0–.38 37.53N 24.85W 0–9 2.7,2.4L
CSEM IV 01 07 12 27.0 37.53N 24.85W 0 2.4L,2.4L ¶16872642
PDA Event type ke. Error ellipse: s-maj=14.3km s-min=1.0km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 18 12 08 23.5–1.1 37.31N 24.71W 5 3.9,3.4L
CSEM IV 18 12 08 23.5 37.31N 24.71W 5 3.4L,3.4L ¶16872781
PDA Event type ke. Error ellipse: s-maj=7.0km s-min=2.4km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC IV 23 08 25 21.0–5.1 37.41N 33.15W 0 4.1s,4.1
¶17201863
IDC Error ellipse: s-maj=138.6km s-min=36.6km az=85.0.
ISC IV 24 07 40 52.9–.83 36.9N–.10 33.5W–.10 10 3.7s,3.7b 13 3-84
ISCJB IV 24 07 40 50.9–.75 36.8N–.10 33.6W–.10 10 3.7s,3.7b ¶17201940
IDC IV 24 07 40 51.1–.91 36.69N 33.56W 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=13.0km az=146.7.
IDC Error ellipse: s-maj=27.7km s-min=19.5km az=178.0.
PDA V 09 06 06 51.1–1.2 36.85N 24.29W 10 4.0,3.7L
CSEM V 09 06 06 51.1 36.85N 24.29W 10 3.7L,3.7L ¶602385437
PDA Event type ke. Error ellipse: s-maj=6.9km s-min=4.9km az=56.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 13 01 39 33.6–1.1 36.88N 23.96W 10 3.7,3.0L
CSEM V 13 01 39 33.6 36.88N 23.96W 10 3.0L,3.0L ¶602385601
PDA Event type ke. Error ellipse: s-maj=7.7km s-min=5.4km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 19 14 20 17.1–1.4 41.9N–.10 30.2W–.40 10 3.4b 6 2-73
ISCJB V 19 14 20 18.7–1.1 42.04N–.09 30.1W–.20 10 3.4b,3.1s ¶17203975
IDC V 19 14 20 19.6–1.3 42.67N 29.69W 0 3.7,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.6km s-min=10.4km az=16.9.
IDC Error ellipse: s-maj=54.3km s-min=28.1km az=31.0.
ISC V 28 21 45 25.1–.34 36.83N–.06 33.14W–.04 10 4.8b,4.1s 856 3-163
ISCJB V 28 21 45 22.9–.17 36.81N–.04 33.23W–.02 10 4.8b,4.1s ¶16551408
PDA V 28 21 45 23.7–.69 36.64N 33.40W 5 4.8b,3.8L
CSEM V 28 21 45 23.8–.11 36.83N 33.18W 2 4.9b,3.8L
IDC V 28 21 45 23.1–.54 36.79N 33.18W 0 4.5,4.4
NEIC V 28 21 45 25.0–.17 36.78N 33.19W 10 4.9b,4.4
MOS V 28 21 45 26.7–1.1 36.81N 33.20W 33 5.0b,4.3s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.8km s-min=1.8km az=173.4.
PDA Event type ke. Error ellipse: s-maj=6.4km s-min=3.4km az=88.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=2.4km az=176.0.
IDC Error ellipse: s-maj=14.9km s-min=11.4km az=174.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=2.2km az=176.0.
MOS Error ellipse: s-maj=7.6km s-min=4.9km az=135.2.
IDC V 29 08 31 07.8–1.5 36.72N 33.14W 0 3.7,3.4
¶17204684
IDC Error ellipse: s-maj=60.3km s-min=24.6km az=19.0.
ISC VI 04 04 36 59.8–1.1 36.8N–.10 23.84W–.06 49–26 75 1-14
CSEM VI 04 04 37 06.8 36.83N 24.12W 10 3.6L ¶602386204
PDA VI 04 04 37 06.8–1.2 36.83N 24.12W 10 4.1,3.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA Event type ke. Error ellipse: s-maj=7.9km s-min=5.5km az=52.0.
PDA VI 19 07 18 00.7–1.3 37.30N 23.60W 10 3.5,2.7L
CSEM VI 19 07 18 00.7 37.30N 23.60W 10 2.7L,2.7L ¶602386274
PDA Event type ke. Error ellipse: s-maj=13.1km s-min=9.2km az=67.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 25 19 42 30.6–.89 37.18N 24.57W 10 3.6,2.9L
CSEM VI 25 19 42 30.6 37.18N 24.57W 10 2.9L,2.9L ¶602386297
PDA Event type ke. Error ellipse: s-maj=6.2km s-min=2.5km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

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PDA I 03 13 05 49.2–.92 37.90N 26.18W 1–3 3.7,3.1L
CSEM I 03 13 05 49.2 37.90N 26.18W 1 3.1L,3.1L ¶16876224
PDA Event type ke. Error ellipse: s-maj=4.8km s-min=1.4km az=30.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 15 21 15 45.6–.93 38.73N 26.79W 8–9 3.5,2.7L
CSEM I 15 21 15 45.6 38.73N 26.79W 8 2.7L,2.7L ¶16876233
PDA Event type ke. Error ellipse: s-maj=14.2km s-min=3.0km az=20.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 22 03 57 33.2–.43 38.58N 28.71W 7–2 1.2L
CSEM I 22 03 57 33.2 38.58N 28.71W 7 1.2L ¶601902867
PDA Event type ke. Error ellipse: s-maj=4.7km s-min=1.3km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 22 19 58 00.5–.91 38.60N 29.65W 5 3.5,3.0L
CSEM I 22 19 58 00.5 38.60N 29.65W 5 3.0L,3.0L ¶16871534
PDA Event type ke. Error ellipse: s-maj=9.6km s-min=6.4km az=173.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 25 05 22 59.7–.80 39.37N 29.89W 14–10 3.5,3.1L
CSEM I 25 05 22 59.7 39.37N 29.89W 14 3.1L,3.1L ¶16871568
PDA Event type ke. Error ellipse: s-maj=10.3km s-min=5.2km az=29.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA I 31 02 22 52.1–.76 39.45N 29.74W 10 3.6,2.6L
CSEM I 31 02 22 52.1 39.45N 29.74W 10 2.6L,2.6L ¶16871669
PDA Event type ke. Error ellipse: s-maj=13.5km s-min=6.2km az=56.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA II 01 13 57 42.6–1.0 38.64N 29.66W 5 3.6,2.7L
CSEM II 01 13 57 42.6 38.64N 29.66W 5 2.7L,2.7L ¶16871687
PDA Event type ke. Error ellipse: s-maj=19.7km s-min=9.6km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA II 03 05 35 39.2–1.2 38.19N 26.65W 0–4 3.7,3.6L
CSEM II 03 05 35 39.2 38.19N 26.65W 0 3.6L,3.6L ¶602000983
PDA Event type ke. Error ellipse: s-maj=6.6km s-min=1.4km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 02 19 45 33.2–.39 39.36N 29.80W 10 3.5,2.6L
CSEM III 02 19 45 33.2 39.36N 29.80W 10 2.6L,2.6L ¶16872228
PDA Event type ke. Error ellipse: s-maj=6.6km s-min=2.8km az=47.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 04 02 05 33.3–.34 39.40N 29.80W 10 3.6,2.6L
CSEM III 04 02 05 33.3 39.40N 29.80W 10 2.6L,2.6L ¶16872257
PDA Event type ke. Error ellipse: s-maj=5.5km s-min=2.2km az=49.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 04 08 32 37.8–.72 38.04N 26.49W 4–4 3.6,2.5L
CSEM III 04 08 32 37.8 38.04N 26.49W 4 2.5L,2.5L ¶16872258
PDA Event type ke. Error ellipse: s-maj=4.7km s-min=1.6km az=31.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 09 01 22 36.8–.74 38.61N 29.46W 3–9 3.7,3.1L
CSEM III 09 01 22 36.8 38.61N 29.46W 3 3.1L,3.1L ¶16872302
PDA Event type ke. Error ellipse: s-maj=8.5km s-min=7.1km az=83.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 10 08 42 41.4–.49 38.45N 29.80W 10 3.5,2.6L
CSEM III 10 08 42 41.4 38.45N 29.80W 10 2.6L,2.6L ¶16872309
PDA Event type ke. Error ellipse: s-maj=10.5km s-min=3.9km az=169.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 12 09 19 11.6–.57 38.90N 29.11W 8–4 3.6,2.4L
CSEM III 12 09 19 11.6 38.90N 29.11W 8 2.4L,2.4L ¶16872345
PDA Event type ke. Error ellipse: s-maj=6.8km s-min=3.7km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 12 18 06 20.2–.92 38.75N 26.73W 0–4 3.6,3.2L
CSEM III 12 18 06 20.2 38.75N 26.73W 0 3.2L,3.2L ¶16872347
PDA Event type ke. Error ellipse: s-maj=6.5km s-min=1.4km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 16 01 45 18.8–.88 38.06N 26.23W 2–3 3.6,3.0L
CSEM III 16 01 45 18.8 38.06N 26.23W 2 3.0L,3.0L ¶16872418
PDA Event type ke. Error ellipse: s-maj=6.3km s-min=1.0km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 18 21 57 17.7–.53 38.60N 29.69W 10 3.5,3.2L
CSEM III 18 21 57 17.7 38.60N 29.69W 10 3.2L,3.2L ¶16872441
PDA Event type ke. Error ellipse: s-maj=9.8km s-min=4.3km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA III 29 13 06 11.0–.29 38.99N 28.99W 1–5 3.5,2.3L
CSEM III 29 13 06 11.0 38.99N 28.99W 1 2.3L,2.3L ¶16872607
PDA Event type ke. Error ellipse: s-maj=6.9km s-min=1.3km az=95.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 02 15 29 54.6–.94 39.44N 29.86W 10 3.5,2.9L
CSEM IV 02 15 29 54.6 39.44N 29.86W 10 2.9L,2.9L ¶16872646
PDA Event type ke. Error ellipse: s-maj=17.9km s-min=8.1km az=44.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 08 23 16 08.9–1.0 38.65N 28.59W 7–4 3.7,3.3L
CSEM IV 08 23 16 08.9 38.65N 28.59W 7 3.3L,3.3L ¶16872670
PDA Event type ke. Error ellipse: s-maj=4.3km s-min=2.5km az=63.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 10 23 49 45.5–1.3 37.96N 25.88W 10–6 3.6,2.1L
CSEM IV 10 23 49 45.5 37.96N 25.88W 10 2.1L,2.1L ¶16872685
PDA Event type ke. Error ellipse: s-maj=7.6km s-min=2.3km az=42.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 11 17 58 30.0–.84 38.57N 29.24W 2–6 3.5,3.1L
CSEM IV 11 17 58 30.0 38.57N 29.24W 2 3.1L,3.1L ¶16872690
PDA Event type ke. Error ellipse: s-maj=7.3km s-min=5.9km az=57.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 11 20 23 32.5–.59 38.55N 29.26W 3–6 3.6,2.3L
CSEM IV 11 20 23 32.5 38.55N 29.26W 3 2.3L,2.3L ¶16872693
PDA Event type ke. Error ellipse: s-maj=6.5km s-min=6.4km az=28.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 12 04 38 35.7–1.1 39.02N 29.01W 5 3.7,2.9L
CSEM IV 12 04 38 35.7 39.02N 29.01W 5 2.9L,2.9L ¶16872698
PDA Event type ke. Error ellipse: s-maj=7.3km s-min=4.3km az=99.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 12 20 07 08.7–.81 39.03N 29.03W 5 3.5,2.6L
CSEM IV 12 20 07 08.7 39.03N 29.03W 5 2.6L,2.6L ¶16872706
PDA Event type ke. Error ellipse: s-maj=6.4km s-min=3.6km az=100.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 17 07 54 26.1–.77 39.49N 29.73W 10 3.5,2.4L
CSEM IV 17 07 54 26.1 39.49N 29.73W 10 2.4L,2.4L ¶16872768
PDA Event type ke. Error ellipse: s-maj=16.5km s-min=5.5km az=55.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 18 10 03 21.0–1.0 38.58N 29.24W 2–6 3.7L,3.6
CSEM IV 18 10 03 21.0 38.58N 29.24W 2 3.7L,3.6 ¶16872777
PDA Event type ke. Error ellipse: s-maj=6.5km s-min=6.3km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 18 10 53 22.5–.65 39.41N 29.86W 10 3.5,3.1L
CSEM IV 18 10 53 22.5 39.41N 29.86W 10 3.1L,3.1L ¶16872779
PDA Event type ke. Error ellipse: s-maj=11.9km s-min=5.0km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 22 18 02 59.7–1.1 38.22N 26.55W 0–4 3.5,3.3L
CSEM IV 22 18 02 59.7 38.22N 26.55W 0 3.3L,3.3L ¶16872869
PDA Event type ke. Error ellipse: s-maj=7.5km s-min=1.5km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 23 10 24 14.9–.88 38.78N 29.00W 3–5 3.5,3.4L
CSEM IV 23 10 24 14.9 38.78N 29.00W 3 3.4L,3.4L ¶16872882
PDA Event type ke. Error ellipse: s-maj=6.7km s-min=3.3km az=62.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 23 16 15 33.0–1.1 38.62N 29.25W 3–4 3.8,3.6L
CSEM IV 23 16 15 33.0 38.62N 29.25W 3 3.6L,3.6L ¶16872884
PDA Event type ke. Error ellipse: s-maj=6.9km s-min=5.1km az=178.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 23 20 34 28.3–.83 38.68N 29.39W 0–11 3.5,2.3L
CSEM IV 23 20 34 28.3 38.68N 29.39W 0 2.3L,2.3L ¶16872891
PDA Event type ke. Error ellipse: s-maj=15.4km s-min=10.7km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 23 23 21 22.4–1.2 38.62N 29.24W 2–7 3.5,2.9L
CSEM IV 23 23 21 22.4 38.62N 29.24W 2 2.9L,2.9L ¶16872896
PDA Event type ke. Error ellipse: s-maj=7.6km s-min=7.1km az=75.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 27 21 20 49.0–1.2 38.61N 29.21W 1–6 3.8,3.2L
CSEM IV 27 21 20 49.0 38.61N 29.21W 1 3.2L,3.2L ¶16872948
PDA Event type ke. Error ellipse: s-maj=8.4km s-min=6.8km az=77.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 27 22 13 09.0–.88 38.58N 29.26W 3–7 3.6,3.4L
CSEM IV 27 22 13 09.0 38.58N 29.26W 3 3.4L,3.4L ¶16872950
PDA Event type ke. Error ellipse: s-maj=9.1km s-min=5.9km az=62.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 28 14 34 55.7–.89 38.62N 29.19W 3–4 3.5,2.7L
CSEM IV 28 14 34 55.7 38.62N 29.19W 3 2.7L,2.7L ¶16872976
PDA Event type ke. Error ellipse: s-maj=7.0km s-min=5.9km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 28 18 07 17.8–.64 38.60N 29.23W 4–3 3.5,2.6L
CSEM IV 28 18 07 17.8 38.60N 29.23W 4 2.6L,2.6L ¶16872978
PDA Event type ke. Error ellipse: s-maj=5.8km s-min=4.3km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 29 03 57 52.3–.90 39.30N 27.67W 5 3.6,2.6L
CSEM IV 29 03 57 52.3 39.30N 27.67W 5 2.6L,2.6L ¶16872996
PDA Event type ke. Error ellipse: s-maj=5.8km s-min=2.5km az=175.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA IV 29 17 41 05.9–.89 38.65N 29.22W 3–4 3.5,2.7L
CSEM IV 29 17 41 05.9 38.65N 29.22W 3 2.7L,2.7L ¶16872997
PDA Event type ke. Error ellipse: s-maj=7.7km s-min=5.7km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 01 17 31 59.5–.92 38.61N 29.26W 2–5 3.8,3.8L
CSEM V 01 17 31 59.5 38.61N 29.26W 2 3.8L,3.8L ¶602385217
PDA Event type ke. Error ellipse: s-maj=6.0km s-min=4.5km az=99.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 03 04 18 31.7–.88 38.75N 26.73W 0–4 3.6,2.1L
CSEM V 03 04 18 31.7 38.75N 26.73W 0 2.1L,2.1L ¶602385263
PDA Event type ke. Error ellipse: s-maj=6.6km s-min=1.7km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 20 19 22 35.2–.97 38.63N 29.27W 10–6 3.5,1.8L
CSEM V 20 19 22 35.2 38.63N 29.27W 10 1.8L,1.8L ¶602385816
PDA Event type ke. Error ellipse: s-maj=12.6km s-min=8.0km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 22 01 12 22.5–1.2 38.46N 26.79W 0–5 3.5,2.5L
CSEM V 22 01 12 22.5 38.46N 26.79W 0 2.5L,2.5L ¶602385891
PDA Event type ke. Error ellipse: s-maj=8.3km s-min=1.5km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 23 07 23 48.8–.99 38.60N 28.56W 8–6 4.0,3.8L
CSEM V 23 07 23 48.8 38.60N 28.56W 8 3.8L,3.8L ¶602385910
PDA Event type ke. Error ellipse: s-maj=6.4km s-min=2.7km az=82.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 23 08 47 23.4–1.2 38.48N 26.78W 0–7 3.5,2.4L
CSEM V 23 08 47 23.4 38.48N 26.78W 0 2.4L,2.4L ¶602385916
PDA Event type ke. Error ellipse: s-maj=12.7km s-min=3.6km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA V 24 17 30 14.7–.61 39.45N 29.74W 10 3.6,2.4L
CSEM V 24 17 30 14.7 39.45N 29.74W 10 2.4L,2.4L ¶602385941
PDA Event type ke. Error ellipse: s-maj=14.9km s-min=5.5km az=48.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM VI 02 00 32 48.7 38.53N 26.73W 0 2.3L
PDA VI 02 00 32 48.7–1.1 38.53N 26.73W 0–5 3.6,2.3L ¶602386196
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

PDA Event type ke. Error ellipse: s-maj=9.3km s-min=1.5km az=31.0.
PDA VI 05 15 53 40.9–1.1 39.54N 29.75W 15–10 3.9,3.2L
CSEM VI 05 15 53 40.9 39.54N 29.75W 15 3.2L,3.2L ¶602386210
PDA Event type ke. Error ellipse: s-maj=7.6km s-min=6.5km az=9.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 05 15 59 50.9–.72 39.47N 29.81W 10 3.6,2.5L
CSEM VI 05 15 59 50.9 39.47N 29.81W 10 2.5L,2.5L ¶602386211
PDA Event type ke. Error ellipse: s-maj=12.1km s-min=5.0km az=51.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 18 04 14 22.8–1.2 39.48N 29.78W 10 3.9,3.4L
CSEM VI 18 04 14 22.8 39.48N 29.78W 10 3.4L,3.4L ¶602386259
PDA Event type ke. Error ellipse: s-maj=8.1km s-min=3.3km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 18 04 29 35.7–1.1 39.41N 29.87W 14–9 4.0,3.2L
CSEM VI 18 04 29 35.7 39.41N 29.87W 14 3.2L,3.2L ¶602386261
PDA Event type ke. Error ellipse: s-maj=5.9km s-min=5.7km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 18 04 41 53.2–.86 39.46N 29.83W 10 3.5,2.3L
CSEM VI 18 04 41 53.2 39.46N 29.83W 10 2.3L,2.3L ¶602386262
PDA Event type ke. Error ellipse: s-maj=10.0km s-min=5.9km az=55.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 18 21 29 38.0–.73 39.50N 29.83W 13–999 3.5,2.3L
CSEM VI 18 21 29 38.0 39.50N 29.83W 13 2.3L,2.3L ¶602386265
PDA Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 26 23 02 14.3–1.3 37.16N 25.06W 2–7 3.7,2.9L
CSEM VI 26 23 02 14.3 37.16N 25.06W 2 2.9L,2.9L ¶602386304
PDA Event type ke. Error ellipse: s-maj=7.2km s-min=3.2km az=92.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
PDA VI 30 12 10 02.6–1.1 36.94N 25.77W 15 3.6,3.4L
CSEM VI 30 12 10 02.6 36.94N 25.77W 15 3.4L,3.4L ¶602386322
PDA Event type ke. Error ellipse: s-maj=3.4km s-min=2.1km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

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ISC I 11 21 57 09.1–.89 7.3N–.10 34.6W–.20 12 3.6b 7 13-79
ISCJB I 11 21 57 07.4–.77 7.2N–.10 34.6W–.20 12 3.6b ¶17189949
IDC I 11 21 57 07.4–1.0 7.35N 34.64W 0 4.0,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.6km s-min=16.7km az=27.6.
IDC Error ellipse: s-maj=35.0km s-min=24.1km az=157.0.
ISC I 15 04 01 26.8–.73 7.7N–.20 38.5W–.10 10 4.0b,3.2s 12 25-72
ISCJB I 15 04 01 25.1–.60 7.7N–.10 38.5W–.10 10 3.9b,3.2s ¶16031144
IDC I 15 04 01 25.6–.87 7.66N 38.51W 0 3.9,3.8b
NEIC I 15 04 01 26.7–.50 7.68N 38.52W 10 4.3b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=14.6km az=163.4.
IDC Error ellipse: s-maj=32.6km s-min=19.5km az=150.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=12.5km az=165.0.
IDC I 22 03 17 48.2–1.4 0.47S 19.87W 0 3.8,3.8
¶17190711
IDC Error ellipse: s-maj=118.7km s-min=25.3km az=154.0.
IDC II 01 19 57 00.9–2.6 9.27N 40.32W 0 4.0,3.8b
¶17191508
IDC Error ellipse: s-maj=101.1km s-min=20.7km az=15.0.
ISC II 03 17 38 50.2–.61 0.6N–.10 25.92W–.10 14 4.2b,4.0s 21 12-150
ISCJB II 03 17 38 48.9–.59 0.6N–.10 25.82W–.08 14 4.1b,4.0s ¶16328647
IDC II 03 17 38 48.2–.71 0.59N 25.86W 0 4.5L,4.3
NEIC II 03 17 38 49.6–.44 0.57N 25.90W 10 4.1b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=11.0km az=162.0.
IDC Error ellipse: s-maj=23.0km s-min=16.7km az=160.0.
NEIC Event type se. Error ellipse: s-maj=16.0km s-min=8.6km az=150.0.
ISC II 08 21 45 08.2–.81 7.7N–.10 38.4W–.10 10 4.0b,3.4s 9 14-80
IDC II 08 21 45 07.4–.87 8.07N 38.54W 0 4.1,3.9 ¶17191913
ISC Event type ke.
IDC Error ellipse: s-maj=30.9km s-min=18.7km az=164.0.
IDC II 17 17 11 06.9–5.9 7.79N 38.09W 0 3.9s,3.9
¶17192435
IDC Error ellipse: s-maj=173.1km s-min=40.5km az=15.0.
ISC II 21 00 10 08.5–.59 0.8N–.10 27.19W–.10 15 4.1b,3.9s 17 11-154
ISCJB II 21 00 10 06.8–.54 0.9N–.10 27.10W–.09 15 4.0b,3.9s ¶16363007
IDC II 21 00 10 06.7–.66 0.99N 27.19W 0 4.1,4.0
NEIC II 21 00 10 07.6–.54 0.84N 27.17W 10 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=11.5km az=164.3.
IDC Error ellipse: s-maj=25.4km s-min=16.8km az=162.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=11.3km az=158.0.
IDC II 24 21 30 30.0–1.4 2.72N 30.77W 0 3.9,3.8
¶17192808
IDC Error ellipse: s-maj=72.7km s-min=24.8km az=153.0.
IDC II 25 13 11 51.9–75 1.66N 26.83W 0 4.1,4.1b
¶17192838
IDC Error ellipse: s-maj=1779.0km s-min=71.9km az=21.0.
ISC II 26 22 19 40.0–.54 7.73N–.09 38.78W–.10 10 4.5b,3.8s 37 14-127
BJI II 26 22 19 38.5 7.80N 38.80W 10 5.5b,4.8 ¶16160477
ISCJB II 26 22 19 39.2–.41 7.97N–.08 38.85W–.07 10 4.3b,3.8s
IDC II 26 22 19 39.3–.64 7.96N 38.88W 0 4.7L,4.2
NEIC II 26 22 19 41.0–.29 7.96N 38.85W 10 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=10.1km az=24.6.
IDC Error ellipse: s-maj=19.3km s-min=15.0km az=154.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=7.1km az=203.0.
ISC II 27 03 13 22.0–.92 4.6N–.20 32.6W–.10 11 4.0b,3.8s 13 11-96
ISCJB II 27 03 13 20.4–.79 4.6N–.20 32.5W–.10 11 3.9b,3.8s ¶16339062
IDC II 27 03 13 20.5–1.4 4.65N 32.56W 0 4.1,3.9
NEIC II 27 03 13 21.8–.57 4.60N 32.57W 10 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=27.0km s-min=15.0km az=169.2.
IDC Error ellipse: s-maj=50.0km s-min=23.1km az=158.0.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=11.0km az=169.0.
ISC II 27 04 08 23.5–.45 4.28N–.07 32.51W–.09 11 4.2b,3.9s 49 11-157
ISCJB II 27 04 08 22.2–.36 4.33N–.08 32.51W–.07 11 4.1b,3.9s ¶16339063
IDC II 27 04 08 22.3–.53 4.43N 32.50W 0 4.3,4.2
NEIC II 27 04 08 23.7–.31 4.41N 32.50W 10 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=7.7km az=143.3.
IDC Error ellipse: s-maj=20.5km s-min=12.4km az=141.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.3km az=139.0.
IDC III 10 00 27 30.2–3.2 3.29N 31.33W 0 4.2,4.1s
¶17193592
IDC Error ellipse: s-maj=101.4km s-min=30.8km az=176.0.
IDC III 10 18 00 06.5–1.6 2.80N 31.26W 0 4.2,4.0
¶17193644
IDC Error ellipse: s-maj=51.5km s-min=29.0km az=172.0.
IDC III 10 18 03 02.6–3.4 2.79N 31.30W 0 3.9,3.7
¶17193645
IDC Error ellipse: s-maj=107.5km s-min=32.9km az=175.0.
ISC III 10 18 06 39.9–2.5 2.6N–.50 31.3W–.20 10 3.9b 8 20-85
ISCJB III 10 18 06 38.2–2.1 2.6N–.40 31.3W–.20 10 3.8b ¶17193646
IDC III 10 18 06 39.0–2.5 2.57N 31.23W 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=62.0km s-min=22.9km az=4.8.
IDC Error ellipse: s-maj=74.0km s-min=28.3km az=3.0.
IDC III 11 04 51 24.5–4.5 3.05N 31.37W 0 4.0,3.7b
¶17193679
IDC Error ellipse: s-maj=169.1km s-min=30.7km az=179.0.
IDC III 11 05 00 18.6–6.6 1.79N 31.67W 0 3.6,3.4
¶17193680
IDC Error ellipse: s-maj=272.5km s-min=35.4km az=1.0.
ISC III 11 09 09 25.1–.49 7.02N–.09 33.89W–.09 15 4.7b 31 13-99
IDC III 11 09 09 22.8–.58 7.04N 33.91W 0 4.7,4.6 ¶16476123
ISCJB III 11 09 09 23.3–.38 7.00N–.07 33.86W–.07 15 4.6b,4.6
NEIC III 11 09 09 24.4–.28 7.02N 33.88W 10 4.6b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=13.4km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=9.6km az=144.5.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=7.1km az=143.0.
IDC III 19 13 56 25.3–6.2 7.02N 34.74W 0 3.8,3.6
¶17197250
IDC Error ellipse: s-maj=224.3km s-min=30.8km az=8.0.
ISC III 22 05 12 42.3–1.0 1.1S–.30 24.8W–.20 22 3.9b 9 12-151
IDC III 22 05 12 39.5–1.0 0.96S 24.74W 0 4.1,3.9 ¶17197929
ISC Event type ke.
IDC Error ellipse: s-maj=40.1km s-min=24.0km az=161.0.
ISC III 22 09 14 39.1–.79 6.3N–.10 33.4W–.20 10 3.9b 9 12-82
ISCJB III 22 09 14 37.3–.69 6.2N–.10 33.3W–.10 10 3.7b ¶17197970
IDC III 22 09 14 37.7–1.0 6.32N 33.42W 0 4.1,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.9km s-min=15.5km az=32.9.
IDC Error ellipse: s-maj=33.7km s-min=21.8km az=160.0.
ISC III 26 01 58 30.0–.77 8.1N–.20 37.9W–.10 16 4.0b,3.4s 17 14-91
IDC III 26 01 58 27.3–.88 8.19N 37.93W 0 4.1,3.8b ¶16480957
ISCJB III 26 01 58 28.3–.61 8.1N–.10 37.93W–.10 16 3.9b,3.4s
NEIC III 26 01 58 29.0–.44 8.13N 37.91W 10 4.1b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=28.0km s-min=21.9km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=14.7km az=166.0.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.7km az=166.0.
ISC III 26 11 38 54.2–.39 0.69N–.09 29.29W–.08 19 4.6b,4.1s 98 9-155
IDC III 26 11 38 51.5–.51 0.84N 29.26W 0 4.7L,4.5 ¶16361367
ISCJB III 26 11 38 52.9–.31 0.82N–.07 29.19W–.05 19 4.6b,4.1s
NEIC III 26 11 38 53.1–.28 0.80N 29.25W 10 4.9b,4.1s
GCMT III 26 11 38 53.1–.40 1.00N 29.10W 28–1 5.0W,4.1s
BJI III 26 11 38 53.0 0.80N 29.20W 10 5.3b,5.1
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=12.7km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=5.7km az=157.1.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=5.8km az=148.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c14; s71,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.24±.19 $M_{\theta\theta}$1.54±.20; $M_{\phi\phi}$-1.78±.19; $M_{r\theta}$0.34±.24; $M_{\theta\phi}$-3.03±.15; $M_{\phi r}$0.42±.24; Best double couple: NP1:ϕ_s256.00000°,δ86.00000° ,λ-173.00000°. NP2:ϕ_s165.00000°,δ83.00000°,λ-4.00000°. Principal axes: T 3.3370,Plg2.0000°,Azm31.0000°; N 0.3120,Plg82.0000°,Azm289.0000° ; P -3.6490,Plg8.0000°,Azm121.0000° $M_0$3.49300×10^{16}
IDC IV 10 01 50 06.8–1.4 0.37S 19.26W 0 3.8,3.7L
¶17200400
IDC Error ellipse: s-maj=49.7km s-min=31.9km az=159.0.
ISC IV 12 00 02 42.6–.38 5.54N–.08 32.70W–.07 10 4.3b 115 12-158
ISCJB IV 12 00 02 41.0–.31 5.58N–.07 32.66W–.05 10 4.3b ¶16505342
IDC IV 12 00 02 41.4–.46 5.61N 32.69W 0 4.2,4.1
NEIC IV 12 00 02 42.6–.27 5.53N 32.71W 10 4.8b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.8km az=179.8.
IDC Error ellipse: s-maj=15.4km s-min=13.0km az=150.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.7km az=155.0.
ISC IV 13 20 57 36.5–.47 0.8N–.10 26.75W–.08 17 4.5b 61 11-153
ISCJB IV 13 20 57 34.9–.36 0.85N–.08 26.74W–.06 17 4.5b ¶16505364
IDC IV 13 20 57 34.0–.46 0.88N 26.75W 0 4.8L,4.5
NEIC IV 13 20 57 35.5–.26 0.83N 26.74W 10 4.6b,4.5
GCMT IV 13 20 57 35.5–.40 0.85N 26.75W 12 5.1W,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=6.9km az=152.9.
IDC Error ellipse: s-maj=19.2km s-min=11.2km az=141.0.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=6.0km az=150.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c10; s91,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.70±.22 $M_{\theta\theta}$0.83±.21; $M_{\phi\phi}$-0.12±.21; $M_{r\theta}$-0.19±.65; $M_{\theta\phi}$-5.29±.14; $M_{\phi r}$-0.01±.61; Best double couple: NP1:ϕ_s87.00000°,δ90.00000° ,λ-178.00000°. NP2:ϕ_s357.00000°,δ88.00000°,λ0.00000°. Principal axes: T 5.6670,Plg1.0000°,Azm222.0000°; N -0.7040,Plg88.0000°,Azm98.0000° ; P -4.9630,Plg2.0000°,Azm312.0000° $M_0$5.31500×10^{16}
ISC IV 14 07 42 31.6–.78 0.4N–.20 25.0W–.10 10 4.1b 15 13-149
IDC IV 14 07 42 29.9–.79 0.42N 24.95W 0 4.5s,4.5 ¶17200996
ISCJB IV 14 07 42 30.2–.75 0.5N–.20 24.9W–.10 10 4.5s,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC IV 25 04 22 21.9–1.2 8.75N 39.41W 0 3.7,3.4
¶17202011
IDC Error ellipse: s-maj=40.7km s-min=27.9km az=166.0.
IDC IV 25 04 22 46.6–1.2 8.66N 39.43W 0 4.0,3.8
¶17202014
IDC Error ellipse: s-maj=42.3km s-min=26.7km az=164.0.
ISC IV 25 07 19 24.0–.50 0.53S–.08 19.98W–.08 19 4.4b,3.9s 48 9-148
IDC IV 25 07 19 21.5–.73 0.45S 19.96W 0 4.8L,4.3 ¶16476078
BJI IV 25 07 19 21.0 0.50S 20.00W 10 4.8L,4.3
ISCJB IV 25 07 19 22.3–.39 0.56S–.05 19.90W–.05 19 4.3b,3.9s
NEIC IV 25 07 19 22.7–.34 0.52S 19.99W 10 4.6b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=33.2km s-min=14.4km az=139.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=7.7km az=136.4.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=6.8km az=142.0.
IDC V 01 01 07 02.1–3.0 2.03N 30.62W 0 3.9,3.7
¶17202489
IDC Error ellipse: s-maj=98.4km s-min=27.0km az=172.0.
IDC V 01 18 40 36.6–3.9 8.68N 40.72W 0 3.6,3.4
¶17202548
IDC Error ellipse: s-maj=165.1km s-min=32.7km az=10.0.
ISC V 05 06 14 57.4–.52 8.14N–.10 38.17W–.09 16 4.2b,3.7s 40 14-94
IDC V 05 06 14 54.8–.62 8.18N 38.17W 0 4.2,4.1 ¶16578001
ISCJB V 05 06 14 55.7–.38 8.14N–.08 38.15W–.07 16 4.1b,3.6s
NEIC V 05 06 14 56.5–.29 8.16N 38.17W 10 4.4b,3.6s
CSEM V 05 06 14 56.7–.15 8.19N 38.18W 10 4.5b,3.6s
ISC Event type ke.
IDC Error ellipse: s-maj=21.5km s-min=14.3km az=153.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.2km az=143.1.
NEIC Event type ke. Error ellipse: s-maj=9.4km s-min=7.0km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=7.3km az=141.0.
IDC V 12 00 25 46.9–29 0.07S 26.48W 0 3.8,3.8
¶17203442
IDC Error ellipse: s-maj=745.9km s-min=73.6km az=14.0.
ISC V 15 13 08 15.4–.58 0.46N–.05 25.61W–.04 19–2 5.5s,5.1b 704 12-152
BJI V 15 13 08 11.5 0.50N 25.60W 10 5.9s,5.8 ¶16512102
NEIC V 15 13 08 12.0–.00 0.46N 25.60W 15 5.9s,5.8
NEIC V 15 13 08 13.1–.26 0.57N 25.65W 10 6.1W,6.1W
GCMT V 15 13 08 13.1–.10 0.87N 25.62W 13–0 6.1W,6.1W
IDC V 15 13 08 13.8–.43 0.47N 25.53W 0 5.4L,5.4
ISCJB V 15 13 08 14.3–1.1 0.66N–.04 25.94W–.02 13–7 5.5s,5.0b
MOS V 15 13 08 15.8–1.7 1.19N 25.97W 10 5.4b,5.0b
NEIC V 15 13 08 28.5–.00 1.21N 25.63W 19 5.4b,5.0b
ISC Event type se.
NEIC Event type se. Moment Tensor Solution. s58 Moment tensor: Scale 10^{18}Nm; M_{rr}0.01 $M_{\theta\theta}$0.14 $M_{\phi\phi}$-0.15 $M_{r\theta}$-0.57 $M_{\theta\phi}$-1.33 $M_{\phi r}$0.69 Best double couple: NP1:ϕ_s359.00000° ,δ76.00000°,λ24.00000°. NP2:ϕ_s263.00000°,δ66.00000°,λ165.00000°. Principal axes: T 1.7800,Plg26.0000°,Azm223.0000°; N -0.4200,Plg62.0000°,Azm26.0000° ; P -1.3600,Plg6.0000°,Azm129.0000° $M_0$1.60000×10^{18}
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=5.1km az=168.0. Moment Tensor Solution. s84 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.08 $M_{\theta\theta}$0.36 $M_{\phi\phi}$-0.28 $M_{r\theta}$0.11 $M_{\theta\phi}$-1.42 $M_{\phi r}$0.04 Best double couple: NP1:ϕ_s264.00000°,δ88.00000°,λ-176.00000°. NP2:ϕ_s174.00000° ,δ86.00000°,λ-2.00000°. Principal axes: T 1.5000,Plg2.0000°,Azm39.0000° ; N -0.0800,Plg85.0000°,Azm283.0000°; P -1.4200,Plg4.0000°,Azm129.0000° $M_0$1.50000×10^{18}

GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s133,c287; s138,c505;Duration: 2s7 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.08±.01 $M_{\theta\theta}$0.24±.01; $M_{\phi\phi}$-0.15±.01; $M_{r\theta}$0.29±.02; $M_{\theta\phi}$-1.57±.01; $M_{\phi r}$-0.07±.02; Best double couple: NP1:ϕ_s86.00000°,δ88.00000°,λ170.00000°. NP2:ϕ_s177.00000°,δ80.00000°,λ2.00000°. Principal axes: T 1.6640,Plg9.0000°,Azm41.0000° ; N -0.1080,Plg80.0000°,Azm253.0000°; P -1.5550,Plg5.0000°,Azm132.0000° $M_0$1.61000×10^{18}

IDC Error ellipse: s-maj=14.6km s-min=10.4km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.8km az=166.3.
MOS Error ellipse: s-maj=9.7km s-min=4.7km az=58.2.
NEIC Event type se. Moment Tensor Solution. s56 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.22 $M_{\theta\theta}$0.33 $M_{\phi\phi}$-0.11 $M_{r\theta}$-1.05 $M_{\theta\phi}$-1.72 $M_{\phi r}$0.61 Best double couple: NP1:ϕ_s0.00000°,δ63.00000°,λ9.00000°. NP2:ϕ_s266.00000°,δ82.00000°,λ153.00000°. Principal axes: T 2.3900,Plg25.0000°,Azm220.0000°; N -0.7100,Plg62.0000°,Azm71.0000° ; P -1.6800,Plg13.0000°,Azm316.0000° $M_0$2.00000×10^{18}

IDC	**V**	**21 20 49 00.0–1.3**	**1.28N**	**28.89W**	**0**	**4.0,3.9**				**¶17204164**
IDC		Error ellipse: s-maj=98.5km s-min=23.9km az=155.0.								
ISC	**V**	**26 23 29 20.5–.98**	**0.6N–.40**	**25.2W–.20**	**10**	**3.8b,3.4s**	**9**	**14-149**		
ISCJB	V	26 23 29 18.9–.84	0.7N–.30	25.2W–.20	10	3.9b,3.4s				**¶16631862**
IDC	V	26 23 29 19.1–1.2	0.56N	25.14W	0	3.8,3.8b				
NEIC	V	26 23 29 20.5–.51	0.56N	25.15W	10	4.2b,3.8b				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=53.7km s-min=13.9km az=156.6.								
IDC		Error ellipse: s-maj=71.1km s-min=25.3km az=150.0.								
NEIC		Event type se. Error ellipse: s-maj=32.8km s-min=10.0km az=156.0.								
ISC	**VI**	**16 22 17 28.1–.34**	**7.15N–.06**	**35.89W–.07**	**10**	**4.7b,4.0s**	**179**	**13-131**		
BJI	VI	16 22 17 25.9	7.20N	35.90W	10	5.6b,5.1s				**¶16628216**
ISCJB	VI	16 22 17 26.3–.22	7.24N–.05	35.90W–.04	10	4.6b,4.0s				
IDC	VI	16 22 17 26.8–.47	7.44N	36.02W	0	5.0L,4.4				
NEIC	VI	16 22 17 28.1–.19	7.25N	35.91W	10	4.9b,4.4				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=151.1.								
IDC		Error ellipse: s-maj=16.4km s-min=10.8km az=135.0.								
NEIC		Event type se. Error ellipse: s-maj=5.8km s-min=4.1km az=151.0.								
ISC	**VI**	**20 16 01 06.9–.60**	**2.4N–.10**	**31.1W–.10**	**10**	**3.9b,3.5s**	**16**	**10-157**		
ISCJB	VI	20 16 01 05.3–.58	2.5N–.10	31.0W–.10	10	3.9b,3.5s				**¶17206608**
IDC	VI	20 16 01 05.8–.64	2.59N	31.04W	0	4.6L,4.2				
ISC		Event type ke.								
ISCJB		Event type ke. Error ellipse: s-maj=21.2km s-min=12.3km az=39.5.								
IDC		Error ellipse: s-maj=22.6km s-min=16.2km az=134.0.								
IDC	**VI**	**23 04 31 52.7–1.1**	**8.76N**	**39.48W**	**0**	**4.0,3.8b**				**¶17206799**
IDC		Error ellipse: s-maj=43.8km s-min=21.2km az=166.0.								
ISC	**VI**	**24 02 06 51.6–.44**	**0.6N–.10**	**25.47W–.08**	**12**	**4.9b,4.3s**	**293**	**12-152**		
IDC	VI	24 02 06 49.7–.66	0.65N	25.46W	0	4.4,4.2b				**¶16681337**
ISCJB	VI	24 02 06 50.7–.40	0.88N–.09	25.54W–.04	10	4.8b,4.2s				
BJI	VI	24 02 06 51.0	0.70N	25.50W	10	5.6b,5.3b				
GCMT	VI	24 02 06 51.5–.20	0.68N	25.44W	12	5.2W,5.3b				
NEIC	VI	24 02 06 51.5–.22	0.60N	25.39W	10	4.9b,5.3b				
ISC		Event type se.								
IDC		Error ellipse: s-maj=26.3km s-min=15.8km az=145.0.								
ISCJB		Event type se. Error ellipse: s-maj=13.2km s-min=5.3km az=168.9.								

GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c45; s74,c126; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.50±.17 $M_{\theta\theta}$-0.53±.18; $M_{\phi\phi}$6.03±.14; $M_{r\theta}$-2.89±.70; $M_{\theta\phi}$0.58±.14; $M_{\phi r}$-2.26±.46; Best double couple: NP1:ϕ_s27.00000°,δ61.00000°,λ-66.00000°. NP2:ϕ_s165.00000°,δ37.00000°,λ-126.00000°. Principal axes: T 6.6440,Plg13.0000°,Azm100.0000°; N 0.4360,Plg21.0000°,Azm195.0000° ; P -7.0820,Plg66.0000°,Azm340.0000° $M_0$6.86300×10^{16}

NEIC		Event type se. Error ellipse: s-maj=7.5km s-min=4.1km az=160.0.								
IDC	**VI**	**26 14 54 23.4–1.4**	**7.01N**	**33.89W**	**0**	**4.0,3.7**				**¶17207003**
IDC		Error ellipse: s-maj=69.6km s-min=27.5km az=166.0.								

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IDC	**I**	**22 06 42 33.9–3.5**	**2.49S**	**11.82W**	**0**	**4.2,4.0b**				**¶17190723**
IDC		Error ellipse: s-maj=100.4km s-min=71.6km az=125.0.								
IDC	**I**	**27 01 55 13.3–5.0**	**1.03S**	**14.63W**	**0**	**4.0,4.0**				**¶17191071**
IDC		Error ellipse: s-maj=162.1km s-min=101.7km az=145.0.								
ISC	**II**	**12 02 53 14.1–.48**	**0.05N–.05**	**17.02W–.05**	**5–2**	**5.4b,5.2s**	**1189**	**8-146**		
BJI	II	12 02 53 12.9	0.07N	16.98W	7	6.1b,5.6b				**¶16021308**
ISCJB	II	12 02 53 12.7–.15	0.01N–.03	16.98W–.02	8	5.3b,5.2s				
IDC	II	12 02 53 13.8–.40	0.19N	17.10W	0	5.7L,5.1				
MOS	II	12 02 53 13.5–.93	0.16N	17.00W	10	5.7b,5.4s				
NEIC	II	12 02 53 15.1–.15	0.08N	17.02W	10	5.5b,5.4s				
GCMT	II	12 02 53 15.1–.10	0.31N	17.05W	15	5.7W,5.4s				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=4.8km s-min=2.1km az=156.0.								
IDC		Error ellipse: s-maj=15.0km s-min=9.9km az=151.0.								
MOS		Error ellipse: s-maj=8.4km s-min=3.8km az=58.0.								
NEIC		Event type se. Error ellipse: s-maj=5.1km s-min=2.8km az=158.0.								

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s94,c177; s130,c316;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.28±.04 $M_{\theta\theta}$0.77±.04; $M_{\phi\phi}$-1.04±.04; $M_{r\theta}$1.17±.12; $M_{\theta\phi}$-3.24±.03; $M_{\phi r}$-1.28±.12; Best double couple: NP1: ϕ_s175.00000°,δ77.00000°,λ22.00000°. NP2:ϕ_s79.00000°,δ69.00000°,λ166.00000°. Principal axes: T 4.0090,Plg25.0000°,Azm38.0000°; N -0.4780,Plg65.0000°,Azm205.0000° ; P -3.5290,Plg5.0000°,Azm306.0000° $M_0$3.76900×10^{17}

ISC	**II**	**14 06 26 13.0–1.2**	**0.4N–.20**	**17.0W–.20**	**10**	**3.8b**	**9**	**9-146**		
ISCJB	II	14 06 26 11.1–1.1	0.5N–.20	17.0W–.10	10	3.7b				**¶17192226**
IDC	II	14 06 26 11.2–1.4	0.38N	16.98W	0	3.9,3.9				
ISC		Event type ke.								
ISCJB		Event type ke. Error ellipse: s-maj=30.3km s-min=14.7km az=153.4.								
IDC		Error ellipse: s-maj=48.6km s-min=25.2km az=148.0.								
ISC	**II**	**15 21 59 03.7–.32**	**0.22S–.05**	**17.84W–.05**	**23**	**5.1b,4.6s**	**695**	**8-146**		
MOS	II	15 21 59 00.7–.87	0.00S	17.86W	10	5.3b,4.6s				**¶16026461**
IDC	II	15 21 59 00.5–.51	0.03S	17.93W	0	5.3L,4.8				
BJI	II	15 21 59 01.5	0.10S	18.00W	15	5.6b,5.4s				
ISCJB	II	15 21 59 02.2–.15	0.17S–.03	17.89W–.02	23	5.0b,4.6s				
GCMT	II	15 21 59 02.5–.10	0.11N	17.90W	18–0	5.4W,4.6s				
NEIC	II	15 21 59 02.5–.21	0.04S	17.93W	10	5.2b,4.6s				
ISC		Event type se.								
MOS		Error ellipse: s-maj=10.4km s-min=4.8km az=58.5.								
IDC		Error ellipse: s-maj=18.4km s-min=10.3km az=149.0.								
ISCJB		Event type se. Error ellipse: s-maj=4.6km s-min=2.7km az=164.3.								

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c161; s124,c228; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.02 $M_{\theta\theta}$0.46±.02; $M_{\phi\phi}$-0.49±.02; $M_{r\theta}$0.32±.05; $M_{\theta\phi}$-1.35±.02; $M_{\phi r}$-0.22±.04; Best double couple: NP1:ϕ_s79.00000°,δ80.00000°,λ169.00000°. NP2:ϕ_s171.00000°,δ79.00000°,λ10.00000°. Principal axes: T 1.5160,Plg15.0000°,Azm35.0000°; N -0.0680,Plg75.0000°,Azm216.0000° ; P -1.4480,Plg0.0000°,Azm125.0000° $M_0$1.48200×10^{17}

NEIC		Event type se. Error ellipse: s-maj=7.0km s-min=3.8km az=163.0.								
IDC	**II**	**19 12 33 52.4–10**	**0.10S**	**13.65W**	**0**	**3.8,3.8**				**¶17192533**
IDC		Error ellipse: s-maj=278.3km s-min=58.2km az=163.0.								
ISC	**II**	**21 02 03 36.7–.54**	**1.23S–.09**	**15.98W–.09**	**20**	**4.2b,3.7s**	**33**	**7-144**		
IDC	II	21 02 03 33.3–.68	1.26S	15.95W	0	4.2,4.1				**¶16172969**
ISCJB	II	21 02 03 34.8–.45	1.25S–.07	15.96W–.07	20	4.1b,3.7s				
NEIC	II	21 02 03 35.1–.41	1.21S	15.94W	10	4.4b,3.7s				
ISC		Event type se.								
IDC		Error ellipse: s-maj=19.4km s-min=17.2km az=147.0.								
ISCJB		Event type se. Error ellipse: s-maj=12.1km s-min=8.9km az=135.5.								
NEIC		Event type se. Error ellipse: s-maj=11.5km s-min=9.2km az=128.0.								
IDC	**II**	**23 19 01 29.7–1.6**	**0.05S**	**16.68W**	**0**	**4.3L,4.2**				**¶17192754**
IDC		Error ellipse: s-maj=102.7km s-min=28.3km az=151.0.								
ISC	**III**	**08 20 23 32.7–.73**	**0.3N–.10**	**17.13W–.10**	**10**	**4.2b,3.8s**	**22**	**8-93**		
ISCJB	III	08 20 23 30.4–.51	0.27N–.09	17.10W–.07	10	4.2b,3.8s				**¶16403017**
IDC	III	08 20 23 31.6–.98	0.37N	17.09W	0	4.7L,4.3				
NEIC	III	08 20 23 32.4–.56	0.25N	17.18W	10	4.7b,4.3				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=14.3km s-min=8.5km az=157.6.								
IDC		Error ellipse: s-maj=28.0km s-min=15.5km az=156.0.								
NEIC		Event type se. Error ellipse: s-maj=16.1km s-min=11.2km az=150.0.								
IDC	**IV**	**15 18 11 55.3–1.7**	**0.19S**	**16.42W**	**0**	**4.5L,4.1**				**¶17201159**
IDC		Error ellipse: s-maj=60.2km s-min=25.7km az=141.0.								
ISC	**V**	**01 04 39 33.6–.30**	**1.20S–.05**	**14.39W–.06**	**10**	**4.7b,4.3s**	**332**	**7-143**		
IDC	V	01 04 39 31.9–.45	1.14S	14.42W	0	4.8L,4.5				**¶16485952**
ISCJB	V	01 04 39 32.2–.20	1.24S–.04	14.47W–.03	10	4.8b,4.3s				
MOS	V	01 04 39 32.2–1.1	1.20S	14.54W	10	4.9b,4.3s				
NEIC	V	01 04 39 33.7–.20	1.22S	14.44W	10	4.9b,4.3s				
GCMT	V	01 04 39 33.7–.20	0.99S	14.40W	18–1	5.0W,4.3s				
ISC		Event type se.								
IDC		Error ellipse: s-maj=13.5km s-min=11.2km az=150.0.								
ISCJB		Event type se. Error ellipse: s-maj=6.3km s-min=3.9km az=148.3.								
MOS		Error ellipse: s-maj=12.8km s-min=5.9km az=64.6.								
NEIC		Event type se. Error ellipse: s-maj=6.4km s-min=4.3km az=146.0.								

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c71; s105,c154; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.31±.12 $M_{\theta\theta}$2.52±.11; $M_{\phi\phi}$-2.21±.11; $M_{r\theta}$0.39±.22; $M_{\theta\phi}$-3.75±.09; $M_{\phi r}$0.96±.23; Best double couple: NP1:ϕ_s163.00000°,δ81.00000°,λ-11.00000°. NP2:ϕ_s255.00000°,δ79.00000°,λ-171.00000°. Principal axes: T 4.5920,Plg1.0000°,Azm209.0000°; N -0.0630,Plg76.0000°,Azm305.0000° ; P -4.5310,Plg14.0000°,Azm119.0000° $M_0$4.56100×10^{16}

ISC	**V**	**13 13 50 29.1–.93**	**0.6S–.10**	**9.6W–.20**	**10**	**4.1b,3.5s**	**20**	**8-149**		
IDC	V	13 13 50 26.3–1.4	0.86S	9.78W	0	4.3L,4.2				**¶16709775**
ISCJB	V	13 13 50 27.6–.87	0.6S–.10	9.6W–.20	10	4.0b,3.4s				
ISC		Event type ke.								
ISCJB		Event type ke.								
IDC	**V**	**30 21 53 23.1–12**	**1.02S**	**16.12W**	**0**	**4.0,4.0**				**¶17204789**
IDC		Error ellipse: s-maj=366.6km s-min=88.3km az=170.0.								
ISC	**VI**	**04 18 04 44.7–1.4**	**1.5S–.20**	**16.1W–.20**	**12**	**4.2b,3.7s**	**17**	**6-144**		
ISCJB	VI	04 18 04 42.9–1.4	1.5S–.20	16.2W–.20	12	4.2b,3.7s				**¶16856328**
IDC	VI	04 18 04 42.8–2.4	1.51S	16.10W	0	4.0,4.0				
NEIC	VI	04 18 04 43.7–.97	1.60S	16.15W	10	4.9b,4.0				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=29.9km s-min=24.4km az=146.2.								
IDC		Error ellipse: s-maj=68.6km s-min=30.1km az=81.0.								
NEIC		Event type se. Error ellipse: s-maj=26.5km s-min=21.1km az=99.0.								
IDC	**VI**	**09 02 20 29.6–4.8**	**0.32S**	**15.44W**	**0**	**4.0,4.0**				**¶17205583**
IDC		Error ellipse: s-maj=370.0km s-min=51.5km az=139.0.								
IDC	**VI**	**09 07 05 36.1–8.8**	**3.01S**	**13.11W**	**0**	**3.7,3.7**				**¶17205603**
IDC		Error ellipse: s-maj=365.1km s-min=115.2km az=147.0.								
IDC	**VI**	**10 23 00 24.1–9.1**	**0.94S**	**12.66W**	**0**	**4.2b,4.0**				**¶17205739**
IDC		Error ellipse: s-maj=190.6km s-min=36.2km az=106.0.								
ISC	**VI**	**17 12 46 10.8–.57**	**0.2S–.10**	**15.9W–.10**	**10**	**4.5b,3.9s**	**21**	**8-145**		
ISCJB	VI	17 12 46 09.2–.44	0.10S–.10	15.94W–.09	10	4.4b,3.9s				**¶16730798**
IDC	VI	17 12 46 09.3–.82	0.12S	15.98W	0	4.3,4.2				
NEIC	VI	17 12 46 10.9–.41	0.12S	15.92W	10	4.6b,4.2				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=15.9km s-min=9.9km az=141.5.								
IDC		Error ellipse: s-maj=30.1km s-min=19.2km az=130.0.								
NEIC		Event type se. Error ellipse: s-maj=15.9km s-min=9.2km az=145.0.								

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IDC	**I**	**03 02 40 02.0–4.7**	**11.48S**	**13.16W**	**0**	**3.6,3.6b**				**¶17189285**
IDC		Error ellipse: s-maj=115.4km s-min=38.1km az=67.0.								
IDC	**I**	**03 05 10 25.2–4.0**	**6.37S**	**11.60W**	**0**	**4.1,4.0**				**¶17189294**
IDC		Error ellipse: s-maj=133.3km s-min=78.6km az=131.0.								
IDC	**I**	**11 15 41 32.7–4.2**	**6.42S**	**10.94W**	**0**	**4.1,4.1s**				**¶17189925**
IDC		Error ellipse: s-maj=102.8km s-min=33.9km az=72.0.								
IDC	**I**	**11 15 43 18.7–1.4**	**6.42S**	**10.59W**	**0**	**4.1,4.0**				**¶17189926**
IDC		Error ellipse: s-maj=36.1km s-min=29.8km az=143.0.								
ISC	**I**	**11 15 45 33.1–.92**	**6.3S–.20**	**10.8W–.10**	**10**	**4.2b,4.2s**	**17**	**4-97**		
ISCJB	I	11 15 45 31.4–.80	6.3S–.10	10.8W–.10	10	4.1b,4.1s				**¶15998104**
IDC	I	11 15 45 31.4–1.1	6.25S	10.64W	0	4.1s,4.1				
NEIC	I	11 15 45 32.5–.87	6.43S	10.75W	10	4.6b,4.1				
GCMT	I	11 15 45 32.5–.30	6.38S	11.28W	17–1	5.0W,4.1				
ISC		Event type se.								
ISCJB		Event type se. Error ellipse: s-maj=19.3km s-min=15.0km az=161.5.								
IDC		Error ellipse: s-maj=32.0km s-min=21.1km az=162.0.								
NEIC		Event type se. Error ellipse: s-maj=20.2km s-min=17.0km az=82.0.								

GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c30; s89,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.50±.22 $M_{\theta\theta}$0.30±.13; $M_{\phi\phi}$3.20±.16; $M_{r\theta}$1.44±.39; $M_{\theta\phi}$-0.26±.09; $M_{\phi r}$0.50±.35; Best double couple: NP1:ϕ_s194.00000°,δ51.00000°,λ-66.00000°. NP2:ϕ_s338.00000°,δ45.00000°,λ-117.00000°. Principal axes: T 3.2460,Plg4.0000°,Azm267.0000°; N 0.7840,Plg19.0000°,Azm358.0000° ; P -4.0270,Plg71.0000°,Azm166.0000° $M_0$3.63600×10^{16}

IDC	**I**	**11 15 49 05.5–5.1**	**6.63S**	**11.31W**	**0**	**3.9,3.8**				**¶17189927**
IDC		Error ellipse: s-maj=128.7km s-min=38.2km az=67.0.								
IDC	**I**	**14 14 57 27.4–1.1**	**8.20S**	**13.67W**	**0**	**3.7,3.7b**				**¶17190181**
IDC		Error ellipse: s-maj=23.5km s-min=13.1km az=150.0.								
ISC	**I**	**14 15 00 29.2–1.5**	**8.2S–.20**	**13.6W–.10**	**17**	**4.0s,3.9b**	**8**	**1-100**		
IDC	I	14 15 00 26.6–1.4	8.13S	13.56W	0	3.9b,3.9				**¶17190182**
ISCJB	I	14 15 00 27.8–1.1	8.1S–.20	13.51W–.07	17	4.0s,3.8b				
GCMT	I	14 15 00 32.0–.50	8.18S	13.51W	20–1	4.9W,3.8b				
ISC		Event type ke.								
IDC		Error ellipse: s-maj=39.2km s-min=14.5km az=2.0.								
ISCJB		Event type ke. Error ellipse: s-maj=26.9km s-min=10.5km az=177.5.								

GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c20; s67,c88; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.40±.27 $M_{\theta\theta}$0.01±.17; $M_{\phi\phi}$2.40±.19; $M_{r\theta}$-0.62±.32; $M_{\theta\phi}$-0.05±.11; $M_{\phi r}$0.06±.29; Best double couple: NP1:ϕ_s165.00000°,δ47.00000°,λ-109.00000°. NP2:ϕ_s12.00000°,δ46.00000°,λ-71.00000°. Principal axes: T 2.4020,Plg1.0000°,Azm268.0000°; N 0.1530,Plg14.0000°,Azm178.0000° ; P -2.5500,Plg76.0000°,Azm2.0000° $M_0$2.47600×10^{16}

IDC	**I**	**20 01 25 57.0–7.0**	**5.29S**	**11.50W**	**0**	**3.6s,3.6**				**¶17190590**
IDC		Error ellipse: s-maj=206.4km s-min=119.7km az=139.0.								
ISC	**III**	**01 02 01 02.4–.89**	**5.6S–.20**	**11.5W–.20**	**13**	**4.3s,4.1b**	**15**	**4-97**		
ISCJB	III	01 02 01 00.9–.71	5.6S–.10	11.5W–.10	13	4.4s,4.0b				**¶17193030**
IDC	III	01 02 01 00.4–1.0	5.64S	11.52W	0	4.4,4.4s				
ISC		Event type ke.								
ISCJB		Event type ke. Error ellipse: s-maj=20.3km s-min=15.7km az=33.2.								
IDC		Error ellipse: s-maj=27.5km s-min=23.5km az=117.0.								
ISC	**III**	**01 03 46 29.8–.40**	**5.64S–.08**	**11.31W–.07**	**13**	**4.9b,4.6s**	**207**	**4-146**		
MOS	III	01 03 46 28.2–.77	5.52S	11.39W	10	5.2b,4.6s				**¶16166894**
BJI	III	01 03 46 28.2	5.60S	11.40W	10	5.6b,5.2b				
IDC	III	01 03 46 28.0–.56	5.60S	11.39W	0	4.5s,4.4				
ISCJB	III	01 03 46 28.6–.30	5.56S–.06	11.35W–.05	13	4.8b,4.6s				
NEIC	III	01 03 46 29.6–.25	5.61S	11.37W	10	5.2b,4.6s				
GCMT	III	01 03 46 29.6–.20	5.53S	11.46W	12	5.2W,4.6s				
ISC		Event type se.								
MOS		Error ellipse: s-maj=13.9km s-min=5.5km az=63.6.								
IDC		Error ellipse: s-maj=16.6km s-min=13.1km az=142.0.								
ISCJB		Event type se. Error ellipse: s-maj=9.4km s-min=5.9km az=139.7.								

NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.7km az=146.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c86; s115,c194; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.78±.01 $M_{\theta\theta}$0.04±.01; $M_{\phi\phi}$0.73±.01; $M_{r\theta}$0.14±.05; $M_{\theta\phi}$-0.21±.01; $M_{\phi r}$-0.23±.04; Best double couple: NP1:ϕ_s340.00000°,δ54.00000°,λ-95.00000°. NP2:ϕ_s169.00000°,δ36.00000°,λ-83.00000°. Principal axes: T 0.8400,Plg9.0000°,Azm73.0000°; N -0.0130,Plg4.0000°,Azm343.0000°; P -0.8270,Plg80.0000°,Azm228.0000° $M_0$0.83400×10^{17}

IDC III 01 07 56 48.5–6.4 5.58S 11.27W 0 3.9,3.9 ¶17193051

IDC Error ellipse: s-maj=340.2km s-min=111.8km az=131.0.

IDC III 16 14 37 57.3–2.2 11.39S 12.96W 0 4.1,4.1b
GCMT III 16 14 37 52.0–.40 11.04S 13.12W 22–1 4.9W,4.1b **¶17196472**

IDC Error ellipse: s-maj=96.0km s-min=16.4km az=141.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c19; s61,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.89±.25 $M_{\theta\theta}$0.77±.14; $M_{\phi\phi}$2.12±.16; $M_{r\theta}$1.80±.24; $M_{\theta\phi}$-0.11±.08; $M_{\phi r}$1.20±.23; Best double couple: NP1:ϕ_s209.00000°,δ64.00000°,λ-71.00000°. NP2:ϕ_s351.00000°,δ32.00000°,λ-123.00000°. Principal axes: T 2.4690,Plg17.0000°,Azm285.0000°; N 1.3770,Plg17.0000°,Azm20.0000°; P -3.8500,Plg66.0000°,Azm152.0000° $M_0$3.15900×10^{16}

ISC III 19 03 03 17.6–.46 10.33S–.08 13.12W–.08 14 4.8b,4.4s 84 2-144
ISCJB III 19 03 03 15.7–.34 10.32S–.06 13.11W–.06 14 4.6b,4.4s **¶16461973**
IDC III 19 03 03 15.8–.67 10.28S 13.06W 0 4.4,4.4
NEIC III 19 03 03 16.9–.22 10.27S 13.10W 10 4.8b,4.4
GCMT III 19 03 03 16.9–.40 10.36S 13.08W 24–1 5.1W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=7.0km az=143.8.
IDC Error ellipse: s-maj=20.1km s-min=16.3km az=153.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=5.5km az=146.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c24; s58,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.59±.39 $M_{\theta\theta}$2.28±.22; $M_{\phi\phi}$3.31±.23; $M_{r\theta}$-1.41±.33; $M_{\theta\phi}$-0.60±.11; $M_{\phi r}$0.26±.29; Best double couple: NP1:ϕ_s144.00000°,δ51.00000°,λ-100.00000°. NP2:ϕ_s340.00000°,δ40.00000°,λ-77.00000°. Principal axes: T 3.6670,Plg6.0000°,Azm241.0000°; N 2.1700,Plg8.0000°,Azm151.0000°; P -5.8370,Plg80.0000°,Azm5.0000° $M_0$4.75200×10^{16}

ISC III 19 03 08 21.6–1.1 10.2S–.20 13.0W–.20 10 4.4b 24 2-87
IDC III 19 03 08 19.1–3.8 10.19S 13.21W 0 4.4,4.3 **¶16479302**
ISCJB III 19 03 08 20.1–.85 10.1S–.20 13.1W–.10 10 4.3b,4.3
NEIC III 19 03 08 21.8–.64 10.12S 13.06W 10 4.5b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=103.4km s-min=64.9km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=26.2km s-min=16.1km az=148.7.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=11.9km az=151.0.

IDC III 19 10 52 02.5–4.0 10.47S 13.19W 0 3.9,3.8 ¶16479421

IDC Error ellipse: s-maj=106.0km s-min=36.1km az=59.0.

ISC III 19 10 52 27.9–.63 10.31S–.10 13.08W–.09 14 4.3b 26 2-95
IDC III 19 10 52 26.1–.90 10.25S 13.13W 0 4.3,4.2 **¶17197195**
ISCJB III 19 10 52 26.2–.50 10.31S–.07 13.03W–.07 14 4.3b,4.2
NEIC III 19 10 52 27.3–.48 10.30S 13.08W 10 4.7b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=17.9km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=8.3km az=136.4.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.4km az=194.0.

IDC III 19 16 06 09.2–7.1 11.10S 12.53W 0 4.1,4.1 ¶17197270

IDC Error ellipse: s-maj=200.5km s-min=148.6km az=126.0.

ISC III 19 18 30 28.6–.84 10.3S–.10 13.3W–.10 10 4.5b,4.3s 40 2-95
ISCJB III 19 18 30 26.9–.64 10.24S–.09 13.15W–.07 10 4.5b,4.3s **¶16479536**
IDC III 19 18 30 26.8–1.2 10.25S 13.18W 0 4.3,4.3
NEIC III 19 18 30 28.6–.68 10.28S 13.18W 10 5.0b,4.3
GCMT III 19 18 30 28.6–.20 10.22S 13.27W 12 5.1W,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.1km s-min=8.4km az=31.9.
IDC Error ellipse: s-maj=51.5km s-min=25.7km az=100.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=14.8km az=87.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c76; s113,c179; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.61±.13 $M_{\theta\theta}$0.42±.12; $M_{\phi\phi}$5.19±.11; $M_{r\theta}$2.96±.38; $M_{\theta\phi}$-1.28±.10; $M_{\phi r}$1.82±.37; Best double couple: NP1:ϕ_s190.00000°,δ56.00000°,λ-61.00000°. NP2:ϕ_s325.00000°,δ44.00000°,λ-126.00000°. Principal axes: T 5.6290,Plg6.0000°,Azm260.0000°; N 1.5720,Plg24.0000°,Azm353.0000°; P -7.2010,Plg65.0000°,Azm156.0000° $M_0$6.41500×10^{16}

ISC III 19 18 43 03.6–.32 10.29S–.06 13.20W–.06 14 5.1b,4.8s 411 2-150
IDC III 19 18 43 01.4–.43 10.32S 13.16W 0 4.7,4.7 **¶16339531**
BJI III 19 18 43 01.1 10.20S 13.20W 10 5.6b,5.3s
MOS III 19 18 43 01.7–.95 10.14S 13.25W 10 5.4b,4.8s
ISCJB III 19 18 43 02.1–.24 10.23S–.04 13.21W–.04 14 5.0b,4.8s
NEIC III 19 18 43 03.2–.20 10.25S 13.23W 10 5.3b,4.8s
GCMT III 19 18 43 03.2–.10 10.26S 13.19W 12 5.4W,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=12.5km s-min=11.5km az=143.0.
MOS Error ellipse: s-maj=13.4km s-min=5.1km az=62.6.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=166.5.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.6km az=143.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c124; s134,c253; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.50±.02 $M_{\theta\theta}$0.05±.02; $M_{\phi\phi}$1.45±.02; $M_{r\theta}$0.41±.06; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$-0.02±.05; Best double couple: NP1:ϕ_s336.00000°,δ48.00000°,λ-109.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-70.00000°. Principal axes: T 1.4990,Plg2.0000°,Azm79.0000°; N 0.1030,Plg14.0000°,Azm349.0000°; P -1.6050,Plg76.0000°,Azm177.0000° $M_0$1.55200×10^{17}

ISC III 26 14 23 04.5–2.4 7.2S–.20 12.7W–.50 19 4.2b,3.5s 12 2-100
IDC III 26 14 23 00.3–3.0 7.25S 12.92W 0 4.2,4.2b **¶17198645**
ISC Event type ke.
IDC Error ellipse: s-maj=88.7km s-min=30.0km az=76.0.

IDC IV 03 16 33 43.5–8.8 9.43S 15.00W 0 3.6s,3.6 ¶17199670

IDC Error ellipse: s-maj=413.3km s-min=149.4km az=140.0.

IDC IV 03 17 22 20.8–5.2 10.21S 13.89W 0 4.0b,4.0 ¶17199676

IDC Error ellipse: s-maj=248.3km s-min=99.6km az=117.0.

IDC IV 03 17 27 04.4–5.3 9.95S 13.46W 0 4.1,3.9 ¶17199677

IDC Error ellipse: s-maj=272.2km s-min=24.3km az=138.0.

ISC IV 09 03 30 04.5–.86 11.6S–.10 14.0W–.10 7 4.2b,3.5s 13 3-75
IDC IV 09 03 30 01.6–3.4 12.03S 13.62W 0 4.1,4.0b **¶16529582**
ISCJB IV 09 03 30 02.6–.73 11.6S–.10 14.0W–.10 7 4.1b,3.5s
NEIC IV 09 03 30 04.9–.64 11.61S 14.03W 10 4.3b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=153.8km s-min=20.9km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=21.3km s-min=11.7km az=135.8.
NEIC Event type se. Error ellipse: s-maj=19.4km s-min=10.5km az=137.0.

GCMT V 09 05 25 12.0–.40 11.07S 13.03W 20–1 4.9W ¶600128281

GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c22; s68,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.67±.21 $M_{\theta\theta}$0.78±.12; $M_{\phi\phi}$1.89±.13; $M_{r\theta}$1.06±.29; $M_{\theta\phi}$-0.70±.07; $M_{\phi r}$-0.28±.22; Best double couple: NP1:ϕ_s319.00000°,δ55.00000°,λ-106.00000°. NP2:ϕ_s165.00000°,δ38.00000°,λ-69.00000°. Principal axes: T 2.3400,Plg9.0000°,Azm60.0000°; N 0.6260,Plg13.0000°,Azm328.0000°; P -2.9710,Plg74.0000°,Azm184.0000° $M_0$2.65600×10^{16}

IDC V 12 05 19 19.4–8.0 9.59S 13.97W 0 3.9,3.8b ¶17203456

IDC Error ellipse: s-maj=231.9km s-min=146.9km az=149.0.

ISC V 12 07 04 19.2–.67 10.0S–.10 13.26W–.09 10 4.4b,4.0s 44 2-131
IDC V 12 07 04 15.2–1.4 10.52S 12.93W 0 4.2b,4.2 **¶16709672**
NEIC V 12 07 04 18.6–.63 10.12S 13.15W 10 5.2b,4.2
GCMT V 12 07 04 18.6–.40 10.52S 13.01W 12–1 4.8W,4.2
BJI V 12 07 04 19.2 10.10S 13.10W 10 5.6b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=36.4km s-min=29.0km az=166.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.5km az=151.0.
GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s68,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.69±.15 $M_{\theta\theta}$0.51±.09; $M_{\phi\phi}$1.18±.10; $M_{r\theta}$-0.26±.28; $M_{\theta\phi}$-0.49±.06; $M_{\phi r}$-0.41±.23; Best double couple: NP1:ϕ_s344.00000°,δ51.00000°,λ-75.00000°. NP2:ϕ_s142.00000°,δ42.00000°,λ-107.00000°. Principal axes: T 1.4590,Plg5.0000°,Azm64.0000°; N 0.3340,Plg11.0000°,Azm155.0000°; P -1.7950,Plg78.0000°,Azm312.0000° $M_0$1.62700×10^{16}

ISC V 31 05 04 09.5–.52 11.1S–.10 13.5W–.10 10 4.2b,3.9s 31 2-96
ISCJB V 31 05 04 07.6–.40 11.12S–.08 13.52W–.08 10 4.1b,3.9s **¶16702365**
IDC V 31 05 04 07.9–.53 11.12S 13.51W 0 4.3,4.2
NEIC V 31 05 04 09.4–.34 11.12S 13.52W 10 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=8.8km az=41.7.
IDC Error ellipse: s-maj=18.7km s-min=12.4km az=145.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.1km az=138.0.

ISC VI 02 12 30 28.7–.34 11.51S–.05 13.34W–.06 20 4.8b,4.6s 175 3-135
IDC VI 02 12 30 24.9–.53 11.56S 13.16W 0 4.5,4.5 **¶16554427**
MOS VI 02 12 30 25.5–1.4 11.58S 13.32W 10 5.0b,4.5
BJI VI 02 12 30 26.2 11.50S 13.50W 10 5.7b,5.5b
NEIC VI 02 12 30 27.1–.32 11.70S 13.21W 10 5.2b,5.5b
ISCJB VI 02 12 30 27.4–.26 11.44S–.04 13.42W–.04 20 4.7b,4.6s
GCMT VI 02 12 30 27.1–.20 11.57S 13.22W 12 5.2W,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=13.1km az=159.0.
MOS Error ellipse: s-maj=17.3km s-min=7.5km az=61.4.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=7.9km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=5.1km az=169.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s58,c72; s103,c182; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.65±.14 $M_{\theta\theta}$-3.02±.14; $M_{\phi\phi}$2.37±.14; $M_{r\theta}$-1.79±.38; $M_{\theta\phi}$6.33±.11; $M_{\phi r}$-2.06±.38; Best double couple: NP1:ϕ_s260.00000°,δ77.00000°,λ17.00000°. NP2:ϕ_s166.00000°,δ73.00000°,λ167.00000°. Principal axes: T 7.6080,Plg21.0000°,Azm124.0000°; N -0.3850,Plg69.0000°,Azm296.0000°; P -7.2220,Plg3.0000°,Azm33.0000° $M_0$7.41500×10^{16}

ISC VI 08 01 18 54.1–.44 11.45S–.08 13.19W–.08 13 4.5b,3.9s 60 3-96
ISCJB VI 08 01 18 52.1–.33 11.40S–.06 13.17W–.06 13 4.4b,3.9s **¶16577421**
IDC VI 08 01 18 52.1–.58 11.32S 13.22W 0 4.4,4.3
NEIC VI 08 01 18 53.5–5.8 11.45S 13.17W 9–36 4.7b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.7km az=140.2.
IDC Error ellipse: s-maj=19.2km s-min=14.3km az=160.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=7.6km az=143.0.

(409) South Atlantic Ocean.

ISC V 02 12 24 06.1–.70 40.34S–.08 57.9W–.10 10 4.3b 22 4-152
ISCJB V 02 12 24 05.2–.76 40.21S–.07 57.8W–.10 10 4.1b **¶16708603**
IDC V 02 12 24 05.1–.73 40.24S 57.89W 0 4.3,4.3
NEIC V 02 12 24 06.7–.37 40.24S 57.90W 10 4.0b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=9.7km az=4.4.
IDC Error ellipse: s-maj=28.1km s-min=20.0km az=61.0.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.7km az=63.0.

IDC V 13 04 17 24.4–349 45.53S 64.72W 0 ¶17203523

IDC Error ellipse: s-maj=189.0km s-min=163.4km az=59.0.

(410) Southern Mid-Atlantic Ridge.

ISC I 03 02 27 54.0–.56 12.4S–.10 14.8W–.10 15 4.1b,4.0s 24 3-146
IDC I 03 02 27 51.9–.58 12.37S 14.81W 0 4.2,4.1 **¶15968903**
ISCJB I 03 02 27 52.4–.51 12.4S–.10 14.79W–.10 15 4.0s,4.0b
NEIC I 03 02 27 53.1–.37 12.43S 14.81W 10 4.1b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=17.0km az=158.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=13.3km az=159.5.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=11.0km az=146.0.

ISC I 04 18 17 36.9–.64 44.4S–.10 15.8W–.10 10 4.5b,4.5s 19 28-146
ISCJB I 04 18 17 35.1–.53 44.35S–.09 15.7W–.10 10 4.5b,4.5s **¶15930105**
IDC I 04 18 17 35.5–.72 44.25S 15.78W 0 4.4s,4.4
NEIC I 04 18 17 36.9–.44 44.27S 15.78W 10 4.6b,4.4
GCMT I 04 18 17 36.9–.20 44.71S 15.69W 12 5.1W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=13.2km az=43.5.
IDC Error ellipse: s-maj=22.7km s-min=19.6km az=179.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=12.0km az=171.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s52,c67; s107,c172; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.48±.10 $M_{\theta\theta}$1.14±.11; $M_{\phi\phi}$4.34±.09; $M_{r\theta}$-0.66±.38; $M_{\theta\phi}$-2.05±.08; $M_{\phi r}$-0.23±.31; Best double couple: NP1:ϕ_s147.00000°,δ46.00000°,λ-100.00000°. NP2:ϕ_s341.00000°,δ45.00000°,λ-80.00000°. Principal axes: T 5.3410,Plg0.0000°,Azm244.0000°; N 0.2240,Plg7.0000°,Azm154.0000°; P -5.5650,Plg83.0000°,Azm338.0000° $M_0$5.45300×10^{16}

IDC I 04 19 00 44.8–9.7 44.87S 14.85W 0 4.0b,4.0 ¶17189448

IDC Error ellipse: s-maj=558.4km s-min=69.4km az=130.0.

IDC I 04 19 59 29.0–2.4 45.63S 13.45W 0 3.9,3.9b ¶17189451

IDC Error ellipse: s-maj=178.0km s-min=25.5km az=123.0.

ISC I 16 23 47 10.0–.60 21.0S–.10 11.6W–.10 16 4.1b 21 12-127
IDC I 16 23 47 07.5–2.3 21.01S 11.58W 0 4.1,4.0 **¶16057182**
ISCJB I 16 23 47 08.2–.49 21.02S–.09 11.57W–.09 16 4.0b,4.0
NEIC I 16 23 47 09.1–.30 21.02S 11.57W 10 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=93.2km s-min=22.6km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=10.7km az=141.8.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.7km az=141.0.

ISC I 16 23 54 06.1–.99 20.0S–.20 11.9W–.20 16 4.1b,4.0s 9 11-73
IDC I 16 23 54 03.6–3.7 19.98S 11.85W 0 4.0,3.9 **¶16057183**
ISCJB I 16 23 54 04.0–.87 20.0S–.20 11.8W–.20 16 4.1b,3.9s
NEIC I 16 23 54 05.1–.72 20.00S 11.85W 10 4.1b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=170.1km s-min=31.2km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=28.4km s-min=16.6km az=136.1.
NEIC Event type se. Error ellipse: s-maj=24.3km s-min=14.1km az=137.0.

ISC I 17 00 08 36.4–.37 21.16S–.08 11.54W–.08 16 4.7b,4.4s 132 12-150
IDC I 17 00 08 33.9–.46 21.11S 11.51W 0 4.5,4.4 **¶15931198**
MOS I 17 00 08 34.0–.79 21.12S 11.56W 10 4.6b,4.3s
ISCJB I 17 00 08 34.7–.26 21.13S–.05 11.53W–.06 16 4.6b,4.4s
GCMT I 17 00 08 35.6–.20 21.06S 11.48W 12 5.0W,4.4s
NEIC I 17 00 08 35.6–.25 21.12S 11.48W 10 4.9b,4.4s
BJI I 17 00 08 35.0 21.10S 11.40W 10 5.1b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=12.7km az=148.0.
MOS Error ellipse: s-maj=15.4km s-min=9.6km az=60.9.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.6km az=41.7.
GCMT Error ellipse: s-maj=1.1km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c49; s94,c144; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.99±.10 $M_{\theta\theta}$0.45±.11; $M_{\phi\phi}$3.54±.09; $M_{r\theta}$1.03±.42; $M_{\theta\phi}$-0.32±.10; $M_{\phi r}$-0.87±.32; Best double couple: NP1:ϕ_s342.00000°,δ53.00000°,λ-103.00000°. NP2:ϕ_s184.00000°,δ39.00000°,λ-73.00000°. Principal axes: T 3.7020,Plg7.0000°,Azm82.0000°; N 0.5970,Plg11.0000°,Azm351.0000°; P -4.2960,Plg77.0000°,Azm206.0000° $M_0$3.99900×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.6km az=147.0.

ISC I 17 01 35 33.0–.33 21.06S–.07 11.63W–.06 16 5.1b,5.0s 275 12-150
MOS I 17 01 35 30.3–.97 21.00S 11.66W 10 4.9b,4.9s **¶15931199**
IDC I 17 01 35 30.4–.50 21.00S 11.62W 0 4.9s,4.9
ISCJB I 17 01 35 31.1–.23 21.01S–.05 11.59W–.05 16 5.0s,5.0b
NEIC I 17 01 35 31.8–.26 21.04S 11.55W 10 5.3b,5.0b

GCMT I 17 01 35 31.8–.10 20.98S 11.49W 12 5.4W,5.0b
ISC Event type se.
MOS Error ellipse: s-maj=15.0km s-min=7.4km az=63.4.
IDC Error ellipse: s-maj=17.6km s-min=13.2km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.6km az=42.7.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.8km az=153.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s82,c112; s121,c243; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.50±.02 $M_{\theta\theta}$0.12±.02; $M_{\phi\phi}$1.38±.02; $M_{r\theta}$0.35±.06; $M_{\theta\phi}$-0.20±.02; $M_{\phi r}$-0.08±.05; Best double couple: NP1:ϕ_s340.00000°,δ49.00000° ,λ-105.00000°. NP2:ϕ_s182.00000°,δ44.00000°,λ-73.00000°. Principal axes: T 1.4160,Plg3.0000°,Azm81.0000°; N 0.1590,Plg11.0000°,Azm350.0000° ; P -1.5740,Plg78.0000°,Azm184.0000° $M_0$1.49500×10^{17}
IDC I 17 01 49 44.7–3.2 20.94S 12.22W 0 4.4s,4.4
¶17190361
IDC Error ellipse: s-maj=203.8km s-min=66.2km az=124.0.
IDC I 17 01 59 36.9–7.1 19.77S 14.60W 0 4.0,4.0
¶17190362
IDC Error ellipse: s-maj=445.0km s-min=134.3km az=110.0.
ISC I 25 01 09 35.3–.50 47.6S–.10 15.42W–.09 10 4.5b,4.0s 36 24-151
ISCJB I 25 01 09 33.8–.43 47.55S–.08 15.5W–.10 10 4.6b,4.0s **¶16022420**
IDC I 25 01 09 33.9–.77 47.57S 15.42W 0 4.5,4.4b
NEIC I 25 01 09 35.4–.38 47.54S 15.43W 10 4.7b,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=10.7km az=23.0.
IDC Error ellipse: s-maj=29.8km s-min=15.8km az=165.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=9.2km az=166.0.
IDC I 30 10 55 23.4–1.6 31.44S 13.10W 0 4.1b,4.1
¶17191316
IDC Error ellipse: s-maj=175.2km s-min=42.8km az=104.0.
IDC II 02 07 01 25.6–3.0 43.21S 15.07W 0 4.3,4.2b
¶17191525
IDC Error ellipse: s-maj=103.4km s-min=35.7km az=152.0.
ISC II 02 13 47 51.3–.66 42.7S–.10 16.1W–.20 10 4.2b,3.8s 20 34-152
IDC II 02 13 47 48.9–1.2 42.83S 15.80W 0 4.2,4.1b **¶16026080**
ISCJB II 02 13 47 50.0–.73 42.7S–.10 16.1W–.30 10 4.4b,3.8s
NEIC II 02 13 47 51.3–.41 42.66S 16.18W 10 5.1b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=44.2km s-min=32.6km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=26.6km s-min=17.8km az=180.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=15.4km az=117.0.
IDC II 11 09 41 19.3–4.2 22.85S 10.31W 0 4.1b,4.1
¶17192067
IDC Error ellipse: s-maj=351.9km s-min=48.2km az=116.0.
IDC II 12 09 51 17.6–6.4 37.81S 17.51W 0 4.0,3.9
¶17192110
IDC Error ellipse: s-maj=355.5km s-min=35.9km az=137.0.
ISC II 15 09 21 39.2–1.2 14.0S–.20 14.4W–.10 22–10 4.8b,4.0s 108 5-147
ISCJB II 15 09 21 35.8–.69 13.9S–.10 14.37W–.10 10 4.7b,4.0s **¶16168859**
IDC II 15 09 21 35.9–.84 13.96S 14.39W 0 4.6,4.5b
MOS II 15 09 21 36.5–.91 13.74S 14.48W 10 5.2b,4.5b
NEIC II 15 09 21 37.4–.38 14.00S 14.37W 10 5.1b,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.0km s-min=10.7km az=153.2.
IDC Error ellipse: s-maj=28.6km s-min=17.7km az=152.0.
MOS Error ellipse: s-maj=26.6km s-min=7.6km az=64.1.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=7.8km az=153.0.
ISC II 25 10 09 36.1–.56 41.0S–.10 16.5W–.10 10 4.4b,4.0s 27 31-160
ISCJB II 25 10 09 34.4–.56 40.9S–.10 16.5W–.10 10 4.4b,3.9s **¶16398898**
IDC II 25 10 09 34.6–.74 40.97S 16.56W 0 4.4,4.2
NEIC II 25 10 09 36.1–.41 40.97S 16.52W 10 4.8b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=12.3km az=145.5.
IDC Error ellipse: s-maj=27.0km s-min=20.2km az=158.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=11.4km az=164.0.
ISC II 25 10 32 36.5–.56 41.0S–.10 16.4W–.10 10 4.3b,4.1s 25 30-143
ISCJB II 25 10 32 34.8–.46 41.00S–.07 16.4W–.10 10 4.5b,4.1s **¶16398903**
IDC II 25 10 32 34.6–.91 41.10S 16.42W 0 4.2,4.2b
NEIC II 25 10 32 36.4–.37 40.99S 16.40W 10 4.8b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=10.2km az=178.1.
IDC Error ellipse: s-maj=29.6km s-min=21.5km az=9.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=10.7km az=206.0.
ISC III 09 12 21 51.9–.62 29.0S–.10 12.6W–.10 10 4.2b 16 8-146
ISCJB III 09 12 21 50.1–.59 29.00S–.10 12.6W–.10 10 4.3b,4.0s **¶16442207**
IDC III 09 12 21 50.2–1.0 29.00S 12.63W 0 4.3,4.2
NEIC III 09 12 21 51.9–.42 28.95S 12.64W 10 4.1b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.9km s-min=13.0km az=29.9.
IDC Error ellipse: s-maj=39.5km s-min=18.3km az=156.0.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=10.6km az=125.0.
ISC III 22 13 31 28.7–.20 33.12S–.04 15.94W–.04 10 6.0b,5.9s 1668 5-160
MOS III 22 13 31 26.8–.89 33.05S 15.99W 10 6.1b,5.9s **¶16342438**
ISCJB III 22 13 31 27.5–.14 33.06S–.03 16.09W–.03 10 5.9s,5.9b
NEIC III 22 13 31 27.6–.10 33.10S 15.98W 5 6.2,6.1b
IDC III 22 13 31 27.4–.30 33.10S 15.98W 0 5.7s,5.7
GCMT III 22 13 31 28.5–.10 33.11S 15.74W 12 5.9W,5.7
NEIC III 22 13 31 28.0–.00 33.09S 15.98W 12 5.9W,5.7
BJI III 22 13 31 30.0 32.95S 16.10W 20 6.3s,6.1b
ISC Event type se.
MOS Error ellipse: s-maj=13.9km s-min=12.1km az=90.6.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=2.8km az=158.3.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.4km az=163.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s250.00000°,δ5.00000° ,λ90.00000°. NP2:ϕ_s70.00000°,δ85.00000°,λ90.00000°. Principal axes: T Plg50.0000° ,Azm340.0000°; N Plg0.0000°,Azm0.0000°; P Plg40.0000°,Azm160.0000°
IDC Error ellipse: s-maj=11.8km s-min=8.6km az=166.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c191; s140,c438;Duration: 2s2 Moment tensor: Scale 10^{18}Nm; M_{rr}0.93±.01 $M_{\theta\theta}$-0.71±.01; $M_{\phi\phi}$-0.22±.01; $M_{r\theta}$-0.22±.02; $M_{\theta\phi}$-0.29±.01; $M_{\phi r}$-0.09±.02; Best double couple: NP1: ϕ_s245.00000°,δ52.00000°,λ91.00000°. NP2:ϕ_s65.00000°,δ38.00000°,λ89.00000°. Principal axes: T 0.9630,Plg83.0000°,Azm158.0000°; N -0.0870,Plg0.0000°,Azm65.0000° ; P -0.8760,Plg7.0000°,Azm335.0000° $M_0$0.92000×10^{18}
NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{17}Nm; M_{rr}5.87 $M_{\theta\theta}$-5.17 $M_{\phi\phi}$-0.70 $M_{r\theta}$1.36 $M_{\theta\phi}$-2.26 $M_{\phi r}$1.73 Best double couple: NP1:ϕ_s58.00000° ,δ55.00000°,λ78.00000°. NP2:ϕ_s257.00000°,δ37.00000°,λ106.00000°. Principal axes: T 6.3500,Plg76.0000°,Azm288.0000°; N 0.0600,Plg9.0000°,Azm64.0000° ; P -6.4100,Plg8.0000°,Azm155.0000° $M_0$6.40000×10^{17}
ISC III 22 14 45 19.0–.34 33.22S–.07 15.87W–.07 10 4.9b 110 5-152
ISCJB III 22 14 45 17.4–.29 33.26S–.05 15.85W–.07 10 5.6s,4.9b **¶16350009**
IDC III 22 14 45 17.5–.47 33.17S 15.87W 0 4.8,4.7
NEIC III 22 14 45 19.1–.20 33.18S 15.90W 10 5.1b,4.7
BJI III 22 14 45 19.3 33.10S 15.90W 10 5.9s,5.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.7km az=150.5.
IDC Error ellipse: s-maj=16.6km s-min=14.5km az=174.0.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=6.4km az=173.0.
IDC III 22 16 45 25.5–2.5 34.88S 18.53W 0 4.1,4.1
¶17198041
IDC Error ellipse: s-maj=59.9km s-min=50.3km az=31.0.
ISC III 22 20 01 31.0–.63 33.2S–.10 15.9W–.10 10 4.6b,3.7s 26 5-151
ISCJB III 22 20 01 29.3–.56 33.2S–.10 15.87W–.10 10 4.4b,3.9s **¶16480299**
IDC III 22 20 01 29.5–1.1 33.24S 15.86W 0 4.2,4.1b
NEIC III 22 20 01 31.2–.47 33.16S 15.91W 10 4.7b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=12.0km az=175.6.
IDC Error ellipse: s-maj=39.3km s-min=18.3km az=0.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=10.4km az=171.0.
IDC III 23 19 49 52.7–1.8 32.93S 16.41W 0 4.1,4.1b
¶17198241
IDC Error ellipse: s-maj=139.1km s-min=48.8km az=117.0.
IDC III 24 03 34 44.1–2.3 31.70S 14.33W 0 4.2,4.2b
¶17198281
IDC Error ellipse: s-maj=76.9km s-min=26.7km az=139.0.
IDC III 24 23 28 36.4–1.5 33.24S 15.99W 0 4.2,4.1
¶17198417
IDC Error ellipse: s-maj=44.6km s-min=27.0km az=178.0.
ISC III 26 11 15 37.3–.61 14.0S–.10 14.55W–.10 14 4.3b,3.9s 26 5-134
ISCJB III 26 11 15 35.6–.49 14.02S–.09 14.55W–.08 14 4.3b,3.9s **¶16459594**
IDC III 26 11 15 35.0–.66 14.00S 14.54W 0 4.4,4.3b
NEIC III 26 11 15 36.6–.43 14.03S 14.54W 10 4.1b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=11.1km az=171.9.
IDC Error ellipse: s-maj=18.8km s-min=15.3km az=173.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=9.9km az=183.0.
ISC IV 07 00 26 45.7–.51 41.6S–.10 16.3W–.10 10 4.5b,4.0s 32 31-146
ISCJB IV 07 00 26 44.0–.48 41.64S–.08 16.3W–.10 10 4.6b,3.9s **¶16577713**
IDC IV 07 00 26 45.0–.78 41.55S 16.26W 0 4.3,4.2b
NEIC IV 07 00 26 45.7–.34 41.61S 16.35W 10 5.1b,4.2b
GCMT IV 07 00 26 45.7–.50 41.89S 16.29W 23–1 5.0W,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=12.2km az=178.3.
IDC Error ellipse: s-maj=29.8km s-min=22.3km az=78.0.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=11.9km az=97.0.
GCMT Error ellipse: s-maj=5.6km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c40; s55,c71; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.56±.27 $M_{\theta\theta}$1.55±.22; $M_{\phi\phi}$2.01±.19; $M_{r\theta}$1.44±.31; $M_{\theta\phi}$-0.95±.12; $M_{\phi r}$0.19±.26; Best double couple: NP1:ϕ_s305.00000°,δ54.00000° ,λ-107.00000°. NP2:ϕ_s153.00000°,δ40.00000°,λ-68.00000°. Principal axes: T 2.8580,Plg7.0000°,Azm47.0000°; N 1.1110,Plg14.0000°,Azm315.0000° ; P -3.9690,Plg74.0000°,Azm164.0000° $M_0$3.41400×10^{16}
IDC IV 15 11 02 06.1–5.4 12.02S 15.30W 0 3.8,3.7
¶17201123
IDC Error ellipse: s-maj=354.8km s-min=102.5km az=120.0.
ISC IV 18 05 33 51.4–.65 33.1S–.10 15.9W–.10 10 4.2b,3.6s 16 5-151
ISCJB IV 18 05 33 49.7–.58 33.1S–.10 15.9W–.10 10 4.2b,3.7s **¶17201393**
IDC IV 18 05 33 49.8–.67 33.08S 15.94W 0 4.3,4.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.7km s-min=14.4km az=151.5.
IDC Error ellipse: s-maj=23.3km s-min=18.6km az=145.0.
ISC IV 19 23 29 13.0–.67 44.39S–.06 16.02W–.06 14–3 5.4b,5.2s 458 8-171
IDC IV 19 23 29 09.7–.40 44.32S 15.96W 0 5.1s,5.1 **¶16448731**
ISCJB IV 19 23 29 11.2–.21 44.52S–.05 16.21W–.06 10 5.3b,5.1s
MOS IV 19 23 29 11.9–1.2 44.55S 15.67W 11 5.6b,5.1s
NEIC IV 19 23 29 13.0–.44 44.47S 15.85W 16–2 5.6b,5.4W
GCMT IV 19 23 29 13.0–.10 44.58S 15.71W 12 5.5W,5.4W
BJI IV 19 23 29 13.2 44.40S 16.10W 17 5.5b,5.5s
NEIC IV 19 23 29 14.0–.00 44.41S 15.86W 16 5.5b,5.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=12.5km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=144.7.
MOS Error ellipse: s-maj=18.8km s-min=11.3km az=80.2.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=6.8km az=170.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c142; s126,c315;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.97±.02 $M_{\theta\theta}$0.28±.02; $M_{\phi\phi}$1.68±.02; $M_{r\theta}$0.11±.06; $M_{\theta\phi}$-0.47±.02; $M_{\phi r}$0.24±.05; Best double couple: NP1: ϕ_s168.00000°,δ48.00000°,λ-84.00000°. NP2:ϕ_s338.00000°,δ42.00000°,λ-97.00000°. Principal axes: T 1.8340,Plg3.0000°,Azm253.0000°; N 0.1530,Plg5.0000°,Azm344.0000° ; P -1.9940,Plg84.0000°,Azm131.0000° $M_0$1.91400×10^{17}
NEIC Event type se. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.43 $M_{\theta\theta}$0.50 $M_{\phi\phi}$0.93 $M_{r\theta}$-0.07 $M_{\theta\phi}$-0.60 $M_{\phi r}$0.50 Best double couple: NP1:ϕ_s153.00000° ,δ54.00000°,λ-80.00000°. NP2:ϕ_s317.00000°,δ37.00000°,λ-103.00000°. Principal axes: T 1.4300,Plg9.0000°,Azm236.0000°; N 0.1000,Plg7.0000°,Azm327.0000° ; P -1.5300,Plg78.0000°,Azm97.0000° $M_0$1.50000×10^{17}
IDC IV 20 04 58 15.3–9.5 44.62S 15.04W 0 4.0,4.0b
¶17201587
IDC Error ellipse: s-maj=540.7km s-min=70.1km az=130.0.
IDC IV 20 07 48 32.5–1.0 44.20S 15.98W 0 4.2,4.1b
¶17201600
IDC Error ellipse: s-maj=33.2km s-min=26.5km az=143.0.
ISC IV 21 09 48 04.7–.99 12.1S–.10 14.8W–.10 10 4.1b,3.7s 19 3-146
IDC IV 21 09 48 02.8–1.3 12.23S 14.76W 0 4.1,4.1 **¶17201703**
ISCJB IV 21 09 48 03.1–.82 12.07S–.09 14.8W–.10 10 4.0b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 24 21 09 33.5–.38 35.70S–.08 17.19W–.08 10 5.1s,4.9b 76 4-162
ISCJB IV 24 21 09 30.5–.33 35.81S–.07 17.02W–.06 10 5.1s,4.8b **¶16453176**
IDC IV 24 21 09 31.4–.63 35.60S 16.94W 0 4.9s,4.9
GCMT IV 24 21 09 32.7–.10 35.49S 16.93W 18–0 5.7W,4.9
NEIC IV 24 21 09 32.7–.40 35.70S 16.99W 10 5.6W,5.1s
NEIC IV 24 21 09 35.0–.00 35.27S 17.47W 15 5.6W,5.1s
BJI IV 24 21 09 36.8 35.30S 17.50W 10 5.6b,5.3s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=7.2km az=4.7.
IDC Error ellipse: s-maj=22.5km s-min=17.1km az=169.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c206; s133,c355;Duration: 1s6 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21±.04 $M_{\theta\theta}$-1.30±.04; $M_{\phi\phi}$1.51±.04; $M_{r\theta}$-0.65±.09; $M_{\theta\phi}$3.38±.03; $M_{\phi r}$0.79±.09; Best double couple: NP1: ϕ_s170.00000°,δ83.00000°,λ-166.00000°. NP2:ϕ_s78.00000°,δ76.00000°,λ-8.00000°. Principal axes: T 3.7890,Plg4.0000°,Azm303.0000°; N 0.0360,Plg74.0000°,Azm197.0000° ; P -3.8210,Plg15.0000°,Azm34.0000° $M_0$3.80500×10^{17}
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=10.3km az=177.0.
NEIC Event type se. Moment Tensor Solution. s19 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$0.60 $M_{r\theta}$-1.20 $M_{\theta\phi}$2.70 $M_{\phi r}$-1.50 Best double couple: NP1:ϕ_s267.00000° ,δ71.00000°,λ20.00000°. NP2:ϕ_s170.00000°,δ70.00000°,λ160.00000°. Principal axes: T 3.8000,Plg27.0000°,Azm128.0000°; N -1.0000,Plg62.0000°,Azm306.0000° ; P -2.7000,Plg0.0000°,Azm38.0000° $M_0$3.00000×10^{17}
ISC IV 24 22 44 15.5–.43 35.8S–.10 17.07W–.07 10 5.3s,4.8b 104 4-163
ISCJB IV 24 22 44 14.5–.27 35.38S–.05 17.03W–.06 10 5.4s,4.8b **¶16459938**
IDC IV 24 22 44 14.2–.58 35.51S 17.00W 0 4.8s,4.8
NEIC IV 24 22 44 15.8–.35 35.42S 16.96W 10 5.6W,5.4s
GCMT IV 24 22 44 16.1–.10 35.47S 16.82W 20–0 5.6W,5.4s
NEIC IV 24 22 44 16.0–.00 35.44S 17.42W 15 5.6W,5.4s
BJI IV 24 22 44 18.7 35.20S 17.00W 10 5.9s,5.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=7.1km az=155.6.
IDC Error ellipse: s-maj=19.9km s-min=15.6km az=177.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.7km az=177.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s75,c117; s116,c274;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.04±.04 $M_{\theta\theta}$-1.06±.04; $M_{\phi\phi}$1.09±.04; $M_{r\theta}$-0.49±.09; $M_{\theta\phi}$2.35±.04; $M_{\phi r}$0.94±.10; Best double couple: NP1: ϕ_s168.00000°,δ85.00000°,λ-159.00000°. NP2:ϕ_s77.00000°,δ69.00000°,λ-5.00000°. Principal axes: T 2.7050,Plg11.0000°,Azm301.0000°; N 0.1590,Plg68.0000°,Azm180.0000° ; P -2.8740,Plg18.0000°,Azm35.0000° $M_0$2.78900×10^{17}
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{17}Nm; M_{rr}0.60 $M_{\theta\theta}$-0.20 $M_{\phi\phi}$-0.40 $M_{r\theta}$-1.30 $M_{\theta\phi}$2.80 $M_{\phi r}$0.30 Best double couple: NP1:ϕ_s273.00000° ,δ86.00000°,λ26.00000°. NP2:ϕ_s181.00000°,δ64.00000°,λ175.00000°. Principal axes: T 2.7000,Plg20.0000°,Azm140.0000°; N 0.7000,Plg63.0000°,Azm280.0000° ; P -3.4000,Plg15.0000°,Azm44.0000° $M_0$3.00000×10^{17}
ISC V 05 20 30 36.1–.45 22.51S–.10 12.8W–.10 10 4.4b,4.0s 45 14-151
ISCJB V 05 20 30 34.4–.35 22.50S–.07 12.81W–.09 10 4.4b,4.0s **¶16497766**
IDC V 05 20 30 34.6–.48 22.45S 12.87W 0 4.4,4.3
NEIC V 05 20 30 36.1–.25 22.47S 12.81W 10 4.7b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=9.4km az=25.2.
IDC Error ellipse: s-maj=19.4km s-min=14.7km az=131.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.0km az=140.0.

ISC	V	**14 23 22 39.7–.63**	**44.8S–.10**	**15.3W–.10**	**10**	**4.3b,4.0s**	**24**	**36-151**
ISCJB	V	14 23 22 37.9–.67	44.8S–.10	15.3W–.20	10	4.2b,4.0s		**¶16590013**
IDC	V	14 23 22 38.0–.87	44.78S	15.28W	0	4.2,4.0		
NEIC	V	14 23 22 39.9–.41	44.77S	15.31W	10	4.6b,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=16.6km az=136.7.
IDC Error ellipse: s-maj=30.4km s-min=24.9km az=138.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=14.5km az=141.0.

GCMT	V	**16 16 17 04.0–.40**	**20.63S**	**11.37W**	**28–1**	**5.0W**		

¶600128282

GCMT Error ellipse: s-maj=3.3km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c23; s76,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.60±.26 $M_{\theta\theta}$0.03±.16; $M_{\phi\phi}$2.57±.17; $M_{r\theta}$2.24±.28; $M_{\theta\phi}$0.66±.13; $M_{\phi r}$-0.58±.21; Best double couple: NP1:ϕ_s346.00000°,δ53.00000°,λ-130.00000°. NP2:ϕ_s221.00000°,δ52.00000°,λ-49.00000°. Principal axes: T 2.7310,Plg1.0000°,Azm103.0000°; N 1.2550,Plg31.0000°,Azm13.0000°; P -3.9900,Plg59.0000°,Azm194.0000° $M_0$3.36000×10^{16}

IDC	VI	**07 04 51 38.2–2.3**	**44.14S**	**15.67W**	**0**	**4.2,4.1**		
GCMT	VI	07 04 51 44.0–.50	44.76S	15.45W	28–1	5.0W,4.1		**¶17205449**

IDC Error ellipse: s-maj=91.0km s-min=24.0km az=172.0.
GCMT Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c44; s61,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.59±.27 $M_{\theta\theta}$1.14±.19; $M_{\phi\phi}$2.46±.19; $M_{r\theta}$-1.34±.28; $M_{\theta\phi}$-1.05±.12; $M_{\phi r}$-1.49±.26; Best double couple: NP1:ϕ_s354.00000°,δ55.00000°,λ-65.00000°. NP2:ϕ_s135.00000°,δ42.00000°,λ-121.00000°. Principal axes: T 3.1210,Plg7.0000°,Azm66.0000°; N 1.2630,Plg20.0000°,Azm159.0000°; P -4.3750,Plg69.0000°,Azm318.0000° $M_0$3.74800×10^{16}

IDC	VI	**07 05 07 31.4–7.9**	**43.75S**	**17.62W**	**0**	**3.8,3.8**		

¶17205450

IDC Error ellipse: s-maj=424.4km s-min=73.3km az=134.0.

IDC	VI	**07 05 10 57.6–3.9**	**43.80S**	**15.94W**	**0**	**4.1,3.9**		

¶16856549

IDC Error ellipse: s-maj=137.5km s-min=44.9km az=156.0.

ISC	VI	**07 05 11 14.2–.42**	**44.2S–.10**	**15.97W–.07**	**16**	**5.3s,4.7b**	**102**	**29-170**
NEIC	VI	07 05 11 11.9–.33	44.44S	15.82W	10	5.3s,5.0b		**¶17205451**
GCMT	VI	07 05 11 11.9–.20	44.44S	15.73W	12	5.3W,5.0b		
IDC	VI	07 05 11 11.0–.57	44.14S	15.92W	0	4.4,4.4		
BJI	VI	07 05 11 13.6	44.10S	15.90W	10	5.4b,5.4s		

ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=14.8km s-min=8.1km az=173.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s78,c119; s125,c227; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.34±.02 $M_{\theta\theta}$0.18±.03; $M_{\phi\phi}$1.17±.02; $M_{r\theta}$-0.14±.07; $M_{\theta\phi}$-0.32±.02; $M_{\phi r}$-0.04±.06; Best double couple: NP1:ϕ_s158.00000°,δ45.00000°,λ-98.00000°. NP2:ϕ_s349.00000°,δ45.00000°,λ-82.00000°. Principal axes: T 1.2660,Plg0.0000°,Azm253.0000°; N 0.0970,Plg6.0000°,Azm163.0000°; P -1.3540,Plg84.0000°,Azm345.0000° $M_0$1.31000×10^{17}

IDC Error ellipse: s-maj=22.0km s-min=13.6km az=3.0.

IDC	VI	**07 05 13 19.3–3.8**	**43.75S**	**16.55W**	**0**	**4.1,3.9**		

¶17205453

IDC Error ellipse: s-maj=131.2km s-min=39.5km az=158.0.

IDC	VI	**07 05 17 24.6–1.1**	**44.14S**	**15.92W**	**0**	**4.1,4.0**		

¶17205454

IDC Error ellipse: s-maj=33.6km s-min=31.8km az=76.0.

ISC	VI	**07 05 18 33.6–.28**	**44.24S–.07**	**16.11W–.06**	**16**	**5.3s,5.2b**	**290**	**28-159**
IDC	VI	07 05 18 30.2–.47	44.17S	15.92W	0	5.4s,5.4		**¶16560659**
MOS	VI	07 05 18 31.7–1.2	44.33S	15.74W	10	5.2b,5.4		
ISCJB	VI	07 05 18 31.9–.27	44.33S–.06	16.24W–.07	16	5.4s,5.2b		
GCMT	VI	07 05 18 32.4–.10	44.39S	15.75W	12	5.6W,5.2b		
NEIC	VI	07 05 18 32.4–.20	44.18S	16.04W	10	5.3b,5.2b		
BJI	VI	07 05 18 32.5	44.20S	16.10W	10	5.6s,5.5b		

ISC Event type se.
IDC Error ellipse: s-maj=17.8km s-min=12.3km az=0.0.
MOS Error ellipse: s-maj=19.6km s-min=10.1km az=83.2.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=7.6km az=171.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s92,c144; s131,c356;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-3.24±.03 $M_{\theta\theta}$0.32±.03; $M_{\phi\phi}$2.92±.03; $M_{r\theta}$-0.12±.12; $M_{\theta\phi}$-0.60±.03; $M_{\phi r}$0.04±.10; Best double couple: NP1: ϕ_s166.00000°,δ46.00000°,λ-92.00000°. NP2:ϕ_s349.00000°,δ44.00000°,λ-87.00000°. Principal axes: T 3.0520,Plg1.0000°,Azm258.0000°; N 0.1930,Plg2.0000°,Azm168.0000°; P -3.2440,Plg88.0000°,Azm4.0000° $M_0$3.14800×10^{17}

NEIC Event type se. Error ellipse: s-maj=9.4km s-min=7.2km az=174.0.

IDC	VI	**07 05 49 18.9–9.5**	**44.90S**	**14.95W**	**0**	**3.8,3.8**		

¶17205455

IDC Error ellipse: s-maj=550.3km s-min=74.3km az=129.0.

IDC	VI	**07 08 24 59.9–2.8**	**44.15S**	**16.06W**	**0**	**4.5,4.5b**		

¶17205467

IDC Error ellipse: s-maj=229.9km s-min=30.6km az=118.0.

IDC	VI	**13 03 13 40.5–1.9**	**46.96S**	**13.50W**	**0**	**4.0,4.0**		

¶16730377

IDC Error ellipse: s-maj=102.1km s-min=37.1km az=75.0.

ISC	VI	**13 03 14 12.7–.63**	**47.0S–.10**	**13.3W–.10**	**10**	**4.2b**	**21**	**30-152**
ISCJB	VI	13 03 14 11.2–.57	47.0S–.10	13.3W–.10	10	4.2b		**¶17206026**
IDC	VI	13 03 14 11.3–.70	46.93S	13.24W	0	4.2,4.2		
NEIC	VI	13 03 14 12.7–.35	46.96S	13.27W	10	4.7b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=12.5km az=177.9.
IDC Error ellipse: s-maj=22.7km s-min=19.6km az=2.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=8.8km az=179.0.

IDC	VI	**13 03 16 24.1–1.2**	**46.99S**	**13.28W**	**0**	**4.1,4.0**		

¶17206028

IDC Error ellipse: s-maj=53.6km s-min=25.3km az=90.0.

ISC	VI	**13 13 47 39.1–.61**	**47.8S–.10**	**12.0W–.10**	**10**	**4.1b,3.7s**	**26**	**17-152**
ISCJB	VI	13 13 47 37.2–.60	47.74S–.09	12.0W–.10	10	4.1b,3.7s		**¶16684527**
IDC	VI	13 13 47 37.7–.72	47.71S	11.97W	0	4.1,4.0b		
NEIC	VI	13 13 47 39.1–.35	47.75S	11.98W	10	4.6b,4.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=11.5km az=148.0.
IDC Error ellipse: s-maj=25.2km s-min=20.3km az=28.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=10.1km az=63.0.

(411) Tristan da Cunha region.

GCMT	V	**07 17 21 52.0–.30**	**40.05S**	**15.81W**	**17–0**	**5.0W**		

¶600128280

GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c23; s88,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.33±.19 $M_{\theta\theta}$0.63±.12; $M_{\phi\phi}$2.70±.14; $M_{r\theta}$-1.51±.39; $M_{\theta\phi}$-0.87±.07; $M_{\phi r}$0.14±.33; Best double couple: NP1:ϕ_s141.00000°,δ54.00000°,λ-112.00000°. NP2:ϕ_s356.00000°,δ42.00000°,λ-63.00000°. Principal axes: T 3.0890,Plg6.0000°,Azm247.0000°; N 0.7530,Plg18.0000°,Azm155.0000°; P -3.8440,Plg71.0000°,Azm356.0000° $M_0$3.46600×10^{16}

ISC	V	**25 12 28 45.6–.38**	**34.75S–.07**	**15.14W–.08**	**10**	**4.8s,4.7b**	**70**	**3-152**
ISCJB	V	25 12 28 44.1–.32	34.75S–.05	15.11W–.08	10	4.7b,4.6s		**¶16544934**
IDC	V	25 12 28 44.2–.62	34.67S	15.16W	0	4.5s,4.5		
BJI	V	25 12 28 45.7	34.70S	15.10W	10	5.5b,5.3s		
GCMT	V	25 12 28 45.7–.10	34.68S	14.96W	12	5.2W,5.3s		
NEIC	V	25 12 28 45.7–.24	34.73S	15.09W	10	5.0b,5.3s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.8km az=151.8.
IDC Error ellipse: s-maj=24.9km s-min=16.9km az=151.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s68,c92; s113,c179; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.71±.01 $M_{\theta\theta}$-0.01±.01; $M_{\phi\phi}$0.72±.01; $M_{r\theta}$0.21±.04; $M_{\theta\phi}$0.17±.01; $M_{\phi r}$0.04±.03; Best double couple: NP1:ϕ_s207.00000°,δ50.00000°,λ-70.00000°. NP2:ϕ_s358.00000°,δ44.00000°,λ-112.00000°. Principal axes: T 0.7630,Plg3.0000°,Azm283.0000°; N 0.0050,Plg15.0000°,Azm14.0000°; P -0.7680,Plg75.0000°,Azm181.0000° $M_0$0.76500×10^{17}

NEIC Event type se. Error ellipse: s-maj=8.1km s-min=7.6km az=72.0.

ISC	V	**25 18 22 06.9–1.6**	**35.9S–.40**	**15.2W–.20**	**10**	**3.9s**	**5**	**3-151**
IDC	V	25 18 22 04.6–1.2	34.97S	15.49W	0	4.1,4.0		**¶17204465**

ISC Event type ke.
IDC Error ellipse: s-maj=31.7km s-min=28.8km az=27.0.

(412) Bouvet Island region.

ISC	I	**07 20 03 13.2–.35**	**54.79S–.07**	**1.07W–.08**	**10**	**4.7b,4.2s**	**70**	**16-164**
ISCJB	I	07 20 03 11.5–.33	54.69S–.06	1.1W–.10	10	4.7b,4.2s		**¶15909038**
IDC	I	07 20 03 11.5–.43	54.71S	0.95W	0	4.6,4.6		
GCMT	I	07 20 03 13.0–.40	54.73S	0.40W	20–1	5.1W,4.6		
NEIC	I	07 20 03 13.0–.26	54.76S	0.97W	10	4.9b,4.6		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=7.8km az=14.7.
IDC Error ellipse: s-maj=15.5km s-min=14.1km az=89.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c40; s81,c107; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.77±.35 $M_{\theta\theta}$1.26±.23; $M_{\phi\phi}$3.51±.22; $M_{r\theta}$1.87±.43; $M_{\theta\phi}$1.44±.13; $M_{\phi r}$-0.96±.36; Best double couple: NP1:ϕ_s8.00000°,δ48.00000°,λ-116.00000°. NP2:ϕ_s224.00000°,δ48.00000°,λ-64.00000°. Principal axes: T 4.2130,Plg0.0000°,Azm116.0000°; N 1.2870,Plg19.0000°,Azm26.0000°; P -5.4990,Plg71.0000°,Azm207.0000° $M_0$4.85600×10^{16}

NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.7km az=116.0.

ISC	I	**12 00 41 15.4–.73**	**54.8S–.10**	**0.9W–.20**	**10**	**4.5b,4.0s**	**15**	**16-160**
ISCJB	I	12 00 41 13.9–.70	54.66S–.09	0.9W–.30	10	4.5b,4.0s		**¶16151116**
IDC	I	12 00 41 14.1–.80	54.68S	0.83W	0	4.5,4.4b		
NEIC	I	12 00 41 15.5–.48	54.71S	0.84W	10	4.4b,4.4b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.2km s-min=13.4km az=174.9.
IDC Error ellipse: s-maj=28.5km s-min=21.6km az=75.0.
NEIC Event type se. Error ellipse: s-maj=17.7km s-min=11.4km az=82.0.

ISC	I	**12 10 13 12.1–.79**	**54.9S–.10**	**0.2E–.20**	**10**	**4.6b,3.8s**	**16**	**17-161**
ISCJB	I	12 10 13 10.4–.78	54.9S–.10	0.2E–.20	10	4.7b,3.8s		**¶16022605**
IDC	I	12 10 13 10.4–.83	54.80S	0.27E	0	4.5,4.3b		
NEIC	I	12 10 13 11.9–.65	54.90S	0.23E	10	4.6b,4.3b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.1km s-min=13.8km az=158.0.
IDC Error ellipse: s-maj=29.0km s-min=20.9km az=73.0.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=13.8km az=73.0.

ISC	IV	**15 07 08 35.8–.55**	**54.04S–.09**	**2.0W–.10**	**10**	**4.4b,4.2s**	**26**	**17-159**
ISCJB	IV	15 07 08 34.2–.53	53.99S–.07	2.0W–.20	10	4.5b,4.0s		**¶16440144**
IDC	IV	15 07 08 34.4–.65	54.03S	1.94W	0	4.3,4.2b		
NEIC	IV	15 07 08 35.8–.33	54.04S	2.00W	10	5.1b,4.2b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=10.2km az=177.1.
IDC Error ellipse: s-maj=22.3km s-min=20.6km az=92.0.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.8km az=93.0.

ISC	V	**12 03 41 01.0–.43**	**54.74S–.07**	**1.60E–.10**	**10**	**4.9b,4.1s**	**47**	**17-161**
ISCJB	V	12 03 40 59.1–.40	54.55S–.06	1.7E–.10	10	4.8b,4.1s		**¶16506962**
IDC	V	12 03 40 59.1–.58	54.64S	1.68E	0	4.5,4.4b		
NEIC	V	12 03 41 00.8–.34	54.65S	1.63E	10	5.1b,4.4b		
GCMT	V	12 03 41 00.8–.20	54.62S	2.04E	29–1	5.2W,4.4b		
BJI	V	12 03 41 01.3	54.70S	1.40E	10	5.5b,5.1s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=8.3km az=179.1.
IDC Error ellipse: s-maj=18.8km s-min=17.2km az=134.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=9.9km az=86.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c73; s103,c159; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.21±.18 $M_{\theta\theta}$6.30±.16; $M_{\phi\phi}$-6.09±.15; $M_{r\theta}$-1.38±.26; $M_{\theta\phi}$-0.32±.12; $M_{\phi r}$1.40±.26; Best double couple: NP1:ϕ_s136.00000°,δ89.00000°,λ-18.00000°. NP2:ϕ_s227.00000°,δ72.00000°,λ-179.00000°. Principal axes: T 6.6090,Plg12.0000°,Azm183.0000°; N -0.2030,Plg72.0000°,Azm315.0000°; P -6.4060,Plg13.0000°,Azm90.0000° $M_0$6.50800×10^{16}

(413) Southwest of Africa.

ISC	I	**26 14 15 12.4–.56**	**52.70S–.09**	**19.1E–.20**	**10**	**4.4b,3.7s**	**24**	**20-154**
ISCJB	I	26 14 15 10.8–.49	52.69S–.07	18.9E–.20	10	4.5b,3.8s		**¶15977985**
IDC	I	26 14 15 10.9–.60	52.46S	19.52E	0	4.3,4.2b		
NEIC	I	26 14 15 13.0–6.7	52.67S	19.06E	14–41	4.4b,4.2b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=9.8km az=2.9.
IDC Error ellipse: s-maj=29.4km s-min=17.5km az=54.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=10.1km az=86.0.

ISC	I	**28 04 37 15.2–.38**	**52.77S–.08**	**18.7E–.10**	**10**	**4.4b,4.0s**	**74**	**20-166**
ISCJB	I	28 04 37 13.5–.36	52.74S–.06	18.7E–.10	10	4.5b,4.0s		**¶15978002**
IDC	I	28 04 37 13.1–.49	52.79S	18.85E	0	4.4,4.3		
NEIC	I	28 04 37 15.0–.24	52.78S	18.78E	10	4.6b,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=8.3km az=7.5.
IDC Error ellipse: s-maj=21.1km s-min=16.3km az=63.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=8.1km az=96.0.

ISC	I	**28 06 06 58.0–.47**	**52.72S–.08**	**18.9E–.10**	**10**	**4.4b,3.7s**	**34**	**19-166**
ISCJB	I	28 06 06 56.4–.41	52.74S–.06	18.9E–.20	10	4.4b,3.7s		**¶15979828**
IDC	I	28 06 06 56.3–.58	52.73S	18.95E	0	4.3,4.2		
NEIC	I	28 06 06 57.8–.32	52.76S	18.95E	10	4.6b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=8.5km az=1.3.
IDC Error ellipse: s-maj=22.9km s-min=16.6km az=77.0.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=8.6km az=88.0.

ISC	III	**19 17 04 36.0–.96**	**52.5S–.10**	**13.8E–.30**	**10**	**4.4b**	**9**	**21-151**
IDC	III	19 17 04 32.7–1.0	52.76S	13.52E	0	4.4,4.3		**¶17197281**
ISCJB	III	19 17 04 34.0–.75	52.5S–.10	13.8E–.30	10	4.3b,3.8s		

ISC Event type ke.
ISCJB Event type ke.

ISC	V	**04 09 56 40.1–.89**	**51.7S–.20**	**13.5E–.30**	**10**	**4.0s,3.8b**	**9**	**21-163**
IDC	V	04 09 56 38.7–.87	51.66S	13.43E	0	4.1s,4.1		**¶17202742**

ISC Event type ke.
IDC Error ellipse: s-maj=46.4km s-min=28.6km az=53.0.

ISC	VI	**02 02 49 56.3–.78**	**52.2S–.20**	**14.1E–.20**	**10**	**4.3b,3.8s**	**19**	**20-164**
IDC	VI	02 02 49 55.0–.84	52.26S	14.07E	0	4.2,4.0b		**¶16640727**
NEIC	VI	02 02 49 56.4–.37	52.23S	14.12E	10	4.4b,4.0b		

ISC Event type se.
IDC Error ellipse: s-maj=36.6km s-min=24.6km az=21.0.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=10.2km az=59.0.

(738) Reykjanes Ridge.

ISC	I	**03 12 14 00.5–.66**	**59.7N–.10**	**30.08W–.08**	**14**	**3.9s,3.8b**	**35**	**6-142**
ISCJB	I	03 12 13 58.5–.54	59.67N–.10	30.2W–.10	14	3.8s,3.8b		**¶16031087**
IDC	I	03 12 13 58.2–.75	59.64N	30.10W	0	4.3L,4.0		
NEIC	I	03 12 13 59.4–.45	59.64N	30.14W	10	4.2b,4.0		
CSEM	I	03 12 13 59.4–.19	59.69N	30.15W	10	4.2b,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.9km s-min=8.7km az=8.0.
IDC Error ellipse: s-maj=20.7km s-min=12.6km az=4.0.
NEIC Event type se. Error ellipse: s-maj=12.1km s-min=7.3km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=5.9km az=6.0.

ISC	I	**23 02 55 45.9–.87**	**56.8N–.10**	**34.0W–.10**	**13**	**4.2b,4.0s**	**14**	**10-146**
IDC	I	23 02 55 43.9–.93	56.79N	33.99W	0	4.2,4.1b		**¶17190773**
ISCJB	I	23 02 55 44.3–.77	56.86N–.08	33.9W–.20	13	4.0b,3.8s		

ISC Event type ke.
ISCJB Event type ke.

IDC	II	**01 15 42 26.3–3.7**	**52.23N**	**32.81W**	**0**	**3.5,3.5b**		

¶17191491

IDC Error ellipse: s-maj=130.9km s-min=39.3km az=74.0.

ISC	II	**11 06 34 40.7–.63**	**54.5N–.20**	**35.26W–.09**	**10**	**3.7b,3.6s**	**20**	**18-148**
ISCJB	II	11 06 34 39.0–.56	54.5N–.10	35.3W–.10	10	3.7b,3.6s		**¶17192053**
IDC	II	11 06 34 39.2–.62	54.46N	35.27W	0	3.9,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=9.7km az=14.5.
IDC Error ellipse: s-maj=22.8km s-min=13.1km az=13.0.

IDC	II	**16 09 44 49.7–1.7**	**53.85N**	**35.33W**	**0**	**3.5,3.3**		

¶17192360

IDC Error ellipse: s-maj=74.9km s-min=26.1km az=176.0.

ISC II 16 18 25 19.2–1.4 54.2N–.30 35.3W–.20 10 3.9b,3.8s 10 38-148
ISCJB II 16 18 25 17.3–1.4 54.2N–.20 35.3W–.30 10 3.9s,3.7b ¶17192379
IDC II 16 18 25 18.0–1.5 54.27N 35.25W 0 3.9s,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.7km s-min=22.4km az=32.5.
IDC Error ellipse: s-maj=40.7km s-min=26.3km az=28.0.
ISC II 22 12 35 56.6–1.1 55.0N–.30 35.5W–.20 10 3.5b,3.4s 7 18-148
ISCJB II 22 12 35 54.7–.95 55.0N–.20 35.5W–.20 10 3.4b,3.4s ¶17192703
IDC II 22 12 35 55.2–1.1 55.02N 35.44W 0 3.7,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.5km s-min=17.1km az=18.5.
IDC Error ellipse: s-maj=43.1km s-min=21.0km az=16.0.
IDC III 01 06 37 23.4–3.1 52.58N 35.35W 0 3.7,3.6s
¶17193047
IDC Error ellipse: s-maj=89.4km s-min=27.9km az=10.0.
ISC III 24 05 17 22.4–.34 59.53N–.05 30.35W–.03 16 4.6b 266 6-152
IDC III 24 05 17 19.4–.56 59.41N 30.37W 0 4.2,4.1 ¶16357306
ISCJB III 24 05 17 21.0–.17 59.60N–.03 30.25W–.04 16 4.5s,4.5b
CSEM III 24 05 17 20.1–.11 59.56N 30.25W 2 4.7b,4.5b
BJI III 24 05 17 20.2 59.88N 30.61W 10 5.2b,4.8s
NEIC III 24 05 17 21.8–.19 59.47N 30.33W 10 4.7b,4.8s
REY III 24 05 17 23.9 58.92N 26.93W 10 4.7b,4.8s
ISC Event type ke.
IDC Error ellipse: s-maj=17.5km s-min=10.4km az=9.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=167.2.
CSEM Event type ke. Error ellipse: s-maj=5.5km s-min=3.3km az=166.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.5km az=184.0.
ISC III 24 05 23 26.4–.40 59.50N–.06 30.20W–.05 14 4.7b,4.0s 242 6-142
IDC III 24 05 23 23.9–.55 59.50N 30.27W 0 4.1,4.1s ¶16357307
BJI III 24 05 23 23.2 59.32N 29.72W 10 5.1b,4.9s
ISCJB III 24 05 23 24.6–.18 59.61N–.03 30.27W–.04 14 4.5b,4.1s
CSEM III 24 05 23 25.3–.08 59.54N 30.27W 10 4.7b,4.1s
NEIC III 24 05 23 25.6–.16 59.48N 30.29W 10 4.7b,4.1s
REY III 24 05 23 26.1 58.59N 26.05W 10 3.4L,3.4L
ISC Event type ke.
IDC Error ellipse: s-maj=16.7km s-min=12.0km az=0.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.8km az=152.3.
CSEM Event type ke. Error ellipse: s-maj=4.1km s-min=2.9km az=173.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.1km az=188.0.
REY Event type ke.
ISC IV 11 01 31 28.0–1.0 58.0N–.20 32.6W–.10 18 3.8b,3.5s 13 9-69
IDC IV 11 01 31 25.2–1.1 57.97N 32.59W 0 3.8,3.7 ¶17200517
ISCJB IV 11 01 31 26.1–.86 58.0N–.20 32.7W–.20 18 3.7b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 03 17 03.2–.96 57.9N–.20 32.4W–.10 18 3.9b,3.5s 16 12-69
IDC IV 11 03 17 00.5–.95 57.95N 32.37W 0 3.9,3.8 ¶17200521
ISCJB IV 11 03 17 01.4–.73 57.9N–.10 32.4W–.20 18 3.7b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 12 21 32 03.9–.70 58.0N–.10 32.30W–.09 18 4.0b,3.7s 30 9-144
IDC IV 12 21 32 00.9–.77 57.94N 32.38W 0 4.0,3.9b ¶16587476
ISCJB IV 12 21 32 02.1–.62 58.0N–.10 32.4W–.10 18 3.9b,3.8s
NEIC IV 12 21 32 02.5–.49 57.99N 32.40W 10 4.2b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=13.9km az=9.0.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=10.6km az=14.3.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=8.8km az=191.0.
ISC IV 12 23 31 49.3–.56 58.13N–.08 32.56W–.07 18 4.6s,4.0b 40 9-68
ISCJB IV 12 23 31 47.8–.44 58.19N–.07 32.5W–.10 18 4.5s,4.0b ¶16587481
IDC IV 12 23 31 47.2–.64 58.24N 32.45W 0 4.1,4.1
NEIC IV 12 23 31 48.5–.42 58.23N 32.42W 10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=7.6km az=3.9.
IDC Error ellipse: s-maj=17.3km s-min=11.0km az=15.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.0km az=195.0.
ISC IV 12 23 32 32.6–.56 58.03N–.09 32.38W–.06 18 4.2b 58 9-68
ISCJB IV 12 23 32 30.9–.39 58.09N–.06 32.38W–.08 18 4.2b,3.9s ¶16505352
IDC IV 12 23 32 30.1–.67 58.03N 32.41W 0 4.3,4.1
NEIC IV 12 23 32 31.4–.35 58.05N 32.38W 10 4.4b,4.1
CSEM IV 12 23 32 31.1–.16 58.05N 32.38W 10 4.5b,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.8km az=1.0.
IDC Error ellipse: s-maj=20.8km s-min=10.2km az=2.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=5.1km az=187.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=4.8km az=1.0.
IDC IV 12 23 38 38.7–.96 57.87N 32.57W 0 3.7,3.4
¶17200822
IDC Error ellipse: s-maj=52.5km s-min=18.6km az=23.0.
IDC IV 12 23 38 58.6–.97 58.22N 32.16W 0 3.9,3.6
¶17200825
IDC Error ellipse: s-maj=45.1km s-min=18.6km az=20.0.
ISC IV 12 23 42 05.8–1.1 57.6N–.20 32.6W–.10 10 3.9b 12 9-70
ISCJB IV 12 23 42 04.0–.90 57.7N–.20 32.5W–.20 10 3.8b ¶17200826
IDC IV 12 23 42 04.7–1.1 57.78N 32.47W 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.9km s-min=15.0km az=173.3.
IDC Error ellipse: s-maj=33.5km s-min=18.3km az=4.0.
IDC IV 13 09 18 47.9–1.3 57.90N 32.50W 0 3.8,3.5b
¶17200881
IDC Error ellipse: s-maj=48.7km s-min=25.1km az=28.0.
ISC IV 13 09 38 37.1–.84 57.9N–.20 32.6W–.10 18 3.7b,3.6s 10 9-69
IDC IV 13 09 38 34.3–.82 57.92N 32.53W 0 3.9,3.6 ¶17200884
ISCJB IV 13 09 38 35.1–.67 57.9N–.20 32.6W–.20 18 3.7b,3.6s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 09 24 33.1–.95 53.0N–.20 35.2W–.10 13 3.5b,2.9s 13 19-150
ISCJB IV 20 09 24 31.6–.84 53.1N–.20 35.2W–.10 13 3.6b,3.0s ¶17201609
IDC IV 20 09 24 31.3–1.1 53.06N 35.18W 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.1km s-min=11.4km az=11.0.
IDC Error ellipse: s-maj=35.9km s-min=17.0km az=14.0.
IDC VI 11 00 07 55.1–1.2 57.38N 33.30W 0 3.8,3.5b
¶17205744
IDC Error ellipse: s-maj=55.4km s-min=21.4km az=30.0.
IDC VI 11 05 02 23.1–1.2 57.67N 32.78W 0 3.9L,3.7
¶17205754
IDC Error ellipse: s-maj=39.0km s-min=20.6km az=31.0.
IDC VI 19 20 31 56.2–2.0 56.05N 35.73W 0 3.6,3.4b
¶17206546
IDC Error ellipse: s-maj=78.2km s-min=34.6km az=50.0.
IDC VI 20 20 51 47.5–2.1 53.65N 34.97W 0 3.6,3.4
¶17206625
IDC Error ellipse: s-maj=195.8km s-min=32.0km az=43.0.
IDC VI 20 20 52 57.6–1.8 53.30N 35.48W 0 3.6,3.4
¶16731075
IDC Error ellipse: s-maj=76.2km s-min=30.6km az=42.0.
ISC VI 20 20 53 21.4–.66 53.4N–.20 35.39W–.09 16 3.8b 17 19-149
IDC VI 20 20 53 18.9–.77 53.39N 35.40W 0 3.9,3.8 ¶17206626
ISCJB VI 20 20 53 19.8–.61 53.4N–.10 35.4W–.10 16 3.8b,3.8
NEIC VI 20 20 53 20.4–.40 53.39N 35.41W 10 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=27.3km s-min=16.3km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=20.4km s-min=11.0km az=8.6.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=8.2km az=189.0.
ISC VI 20 20 58 33.2–.89 53.4N–.20 35.4W–.10 16 3.6b 12 19-149
IDC VI 20 20 58 30.7–.98 53.42N 35.42W 0 3.8,3.7L ¶17206628
ISCJB VI 20 20 58 31.4–.81 53.4N–.20 35.4W–.20 16 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 20 21 00 57.9–.79 53.4N–.20 35.4W–.10 16 3.7b 16 19-149
IDC VI 20 21 00 55.4–.76 53.37N 35.40W 0 4.0,4.0L ¶16731081
ISCJB VI 20 21 00 56.4–.72 53.4N–.10 35.4W–.20 16 3.7b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 20 21 01 26.3–.38 53.44N–.08 35.31W–.06 16 4.6b 201 16-149
IDC VI 20 21 01 23.6–.46 53.45N 35.33W 0 4.3,4.2 ¶17206630
ISCJB VI 20 21 01 24.6–.24 53.45N–.06 35.28W–.05 16 4.5b,3.0s
NEIC VI 20 21 01 25.3–.68 53.44N 35.27W 9–4 4.7b,3.0s
CSEM VI 20 21 01 25.2–.10 53.47N 35.28W 10 4.7b,3.0s
ISC Event type ke.
IDC Error ellipse: s-maj=15.1km s-min=11.2km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.1km az=4.4.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=3.6km az=185.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.6km az=4.0.
ISC VI 20 21 16 50.9–.36 53.51N–.07 35.40W–.05 16 4.7b 500 14-149
IDC VI 20 21 16 48.0–.56 53.41N 35.34W 0 4.3,4.1 ¶16645423
ISCJB VI 20 21 16 49.2–.15 53.46N–.04 35.41W–.03 16 5.0s,4.6b
NEIC VI 20 21 16 50.0–.17 53.43N 35.29W 10 4.8b,4.6b
CSEM VI 20 21 16 50.0–.08 53.51N 35.33W 10 4.7b,4.6b
GCMT VI 20 21 16 50.0–.40 53.74N 35.24W 18–1 5.1W,4.6b
ISC Event type ke.
IDC Error ellipse: s-maj=18.6km s-min=11.8km az=5.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.5km az=176.4.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=2.9km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.9km az=7.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c27; s65,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.86±.43 $M_{\theta\theta}$-0.11±.30; $M_{\phi\phi}$4.97±.33; $M_{r\theta}$3.99±.80; $M_{\theta\phi}$0.06±.22; $M_{\phi r}$-0.66±.64; Best double couple: NP1:ϕ_s332.00000°,δ57.00000°,λ-126.00000°. NP2:ϕ_s205.00000°,δ47.00000°,λ-49.00000°. Principal axes: T 5.0250,Plg5.0000°,Azm87.0000°; N 2.1360,Plg29.0000°,Azm354.0000°; P -7.1570,Plg60.0000°,Azm186.0000° $M_0$6.09100×10^{16}
ISC VI 20 21 19 58.6–.36 53.52N–.08 35.40W–.05 16 4.8b,4.5s 393 13-149
IDC VI 20 21 19 55.8–.62 53.47N 35.41W 0 4.5,4.5s ¶16646051
ISCJB VI 20 21 19 56.8–.15 53.43N–.04 35.48W–.03 16 4.7b,4.5s
GCMT VI 20 21 19 57.7–.20 53.57N 35.21W 12 5.1W,4.5s
NEIC VI 20 21 19 57.7–.78 53.46N 35.31W 9–4 4.9b,4.5s
CSEM VI 20 21 19 57.7–.10 53.51N 35.34W 10 4.8b,4.5s
ISC Event type ke.
IDC Error ellipse: s-maj=20.1km s-min=13.2km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=2.6km az=2.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s92,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.00±.19 $M_{\theta\theta}$0.16±.20; $M_{\phi\phi}$5.84±.14; $M_{r\theta}$1.33±.77; $M_{\theta\phi}$0.94±.15; $M_{\phi r}$-1.11±.64; Best double couple: NP1:ϕ_s356.00000°,δ51.00000°,λ-107.00000°. NP2:ϕ_s202.00000°,δ42.00000°,λ-71.00000°. Principal axes: T 6.0590,Plg4.0000°,Azm98.0000°; N 0.3470,Plg13.0000°,Azm7.0000°; P -6.4090,Plg76.0000°,Azm206.0000° $M_0$6.23400×10^{16}
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=3.8km az=185.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.5km az=10.0.
ISC VI 26 02 54 38.8–.90 52.9N–.20 35.3W–.10 13 4.1b,3.2s 22 19-150
ISCJB VI 26 02 54 37.2–.70 52.9N–.10 35.3W–.10 13 4.0b,3.1s ¶16731480
IDC VI 26 02 54 37.2–1.4 52.91N 35.20W 0 3.9,3.8
NEIC VI 26 02 54 38.3–.41 52.89N 35.27W 10 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=11.6km az=4.4.
IDC Error ellipse: s-maj=33.5km s-min=24.1km az=40.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=7.5km az=184.0.

(739) Azores-Cape St. Vincent Ridge.

ISC I 03 09 44 17.4–1.3 36.94N–.05 13.00W–.08 10 3.5b 285 3-35
IDC I 03 09 44 12.5–3.1 36.63N 13.35W 0 4.3L,3.8 ¶15902915
MDD I 03 09 44 15.5–1.0 36.81N 13.48W 30 4.6b,3.8
LDG I 03 09 44 15.6–.30 36.71N 13.54W 25 4.1L,3.8
ISCJB I 03 09 44 15.6–.53 36.88N–.03 12.94W–.04 10 3.4b,3.8
IGIL I 03 09 44 16.1 36.73N 13.45W 32 3.5L,3.8
INMG I 03 09 44 18.6–1.5 36.80N 13.50W 10 3.5L,3.8
CNRM I 03 09 44 18.7 36.75N 13.13W 30 3.9,3.8
CSEM I 03 09 44 20.7–.33 36.99N 12.96W 30 4.2L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=61.5km s-min=25.6km az=86.0.
MDD Error ellipse: s-maj=10.0km s-min=7.4km az=99.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=7.3km s-min=4.8km az=123.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=4.5km az=141.7.
INMG Event type ke. Error ellipse: s-maj=5.2km s-min=3.2km az=121.0.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=5.1km az=74.0.
ISC I 10 23 00 02.1–4.1 37.26N–.10 13.1W–.20 10 70 3-7
MDD I 10 23 00 00.7–2.9 37.20N 13.26W 0 3.6b ¶15917536
INMG I 10 23 00 01.1–1.1 37.01N 13.70W 10 2.4L
CSEM I 10 23 00 03.2–.42 37.24N 13.01W 10 2.8L
ISC Event type ke.
MDD Error ellipse: s-maj=27.3km s-min=22.3km az=162.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=8.1km s-min=7.4km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=6.7km az=167.0.
ISC I 13 21 30 54.4–4.0 35.6N–.10 11.3W–.20 10 80 2-6
MDD I 13 21 30 53.7–2.3 35.57N 11.37W 0 3.5b ¶15925976
INMG I 13 21 30 54.6–.85 35.53N 11.45W 10 2.0L
IGIL I 13 21 30 54.1 35.52N 11.44W 10 1.7L
CSEM I 13 21 30 55.5–.37 35.67N 11.24W 10 3.5b
ISC Event type ke.
MDD Error ellipse: s-maj=38.6km s-min=19.4km az=138.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=8.2km s-min=4.9km az=120.0.
CSEM Event type ke. Error ellipse: s-maj=8.7km s-min=6.5km az=134.0.
MDD I 14 11 12 26.9–2.2 36.08N 10.13W 0 2.2
IGIL I 14 11 12 26.9 36.05N 10.21W 0 1.3L ¶15994849
CSEM I 14 11 12 27.1–.35 36.12N 10.11W 10 2.2L
INMG I 14 11 12 27.1–1.1 36.02N 10.24W 10 1.9L
MDD Error ellipse: s-maj=27.9km s-min=19.0km az=134.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=6.1km az=117.0.
INMG Event type ke. Error ellipse: s-maj=10.2km s-min=6.9km az=109.0.
ISC I 18 09 48 40.0–2.4 37.29N–.06 13.1W–.10 10 137 3-8
IGIL I 18 09 48 39.0 37.19N 13.25W 1 2.7L ¶15934901
MDD I 18 09 48 40.3–2.6 37.22N 13.14W 0 4.0b
INMG I 18 09 48 41.5–1.3 37.00N 13.52W 10 3.0L
CSEM I 18 09 48 43.2–.39 37.35N 12.89W 10 3.7L
ISC Event type ke.
MDD Error ellipse: s-maj=24.6km s-min=18.4km az=45.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=6.9km s-min=5.4km az=81.0.
CSEM Event type ke. Error ellipse: s-maj=6.9km s-min=5.7km az=61.0.
ISC II 03 23 22 47.3–.86 37.05N–.03 10.17W–.04 13 326 1-14
ISCJB II 03 23 22 48.8–.57 37.05N–.02 10.02W–.04 13 ¶16002873
CNRM II 03 23 22 49.8 36.70N 10.59W 30 3.6
MDD II 03 23 22 50.2–.83 36.97N 10.37W 30 3.6
IGIL II 03 23 22 50.5 36.91N 10.35W 30 3.4L
SFS II 03 23 22 50.0 36.90N 10.30W 30 3.6L
LDG II 03 23 22 51.3–.17 37.01N 10.35W 30 3.6L
INMG II 03 23 22 51.2–.98 36.94N 10.34W 31 3.4L,3.2
CSEM II 03 23 22 51.9–.31 37.08N 10.12W 30 4.4L,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=2.8km az=144.9.
MDD Error ellipse: s-maj=7.7km s-min=5.5km az=58.0. PRXIMO.
SFS Event type ke.
LDG Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=45.0.
INMG Event type ke. Error ellipse: s-maj=3.7km s-min=2.1km az=67.0.
CSEM Event type ke. Error ellipse: s-maj=6.2km s-min=3.5km az=58.0.
ISC II 04 20 16 53.1–3.5 37.03N–.09 13.5W–.20 10 176 4-10
MDD II 04 20 16 53.4–1.2 36.82N 13.78W 30 4.2b ¶16006240
IGIL II 04 20 16 54.4 36.98N 13.50W 1 2.5L
INMG II 04 20 16 56.1–1.0 36.79N 13.82W 10 2.8L
CSEM II 04 20 16 57.6–.28 37.11N 13.21W 10 3.5L
ISC Event type ke.

MDD Error ellipse: s-maj=14.6km s-min=10.6km az=140.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=125.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=4.5km az=39.0.
ISC II 07 10 48 22.6–4.0 36.8N–.10 11.0W–.20 10 54 2-5
MDD II 07 10 48 22.0–2.9 36.60N 11.29W 30 3.5b **¶16358543**
CSEM II 07 10 48 23.3–.43 36.74N 11.06W 20 2.7L
INMG II 07 10 48 23.1–.95 36.57N 11.27W 31 1.9L
ISC Event type ke.
MDD Error ellipse: s-maj=29.8km s-min=22.2km az=118.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=6.2km az=100.0.
INMG Event type ke. Error ellipse: s-maj=9.1km s-min=5.9km az=95.0.
ISC II 15 18 21 01.8–2.0 37.02N–.06 13.4W–.10 10 282 4-14
IGIL II 15 18 21 00.1 36.77N 13.86W 25 3.3L **¶16026147**
MDD II 15 18 21 00.6–.94 36.78N 13.82W 30 4.2b
ISCJB II 15 18 21 02.2–.56 37.00N–.03 13.23W–.04 10 4.2b
LDG II 15 18 21 02.4–.14 36.81N 13.76W 25 3.7L
INMG II 15 18 21 03.4–.97 36.76N 13.87W 10 3.3L
CSEM II 15 18 21 04.1–.27 36.99N 13.26W 10 4.0L
CNRM II 15 18 21 09.3 36.56N 13.37W 30 3.5
ISC Event type ke.
MDD Error ellipse: s-maj=10.6km s-min=7.8km az=128.0. PRXIMO.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.7km az=145.5.
LDG Event type ke. Error ellipse: s-maj=2.9km s-min=2.5km az=135.0.
INMG Event type ke. Error ellipse: s-maj=4.2km s-min=2.1km az=131.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=94.0.
ISC II 17 18 16 39.3–3.5 37.32N–.10 13.6W–.20 10 89 4-7
MDD II 17 18 16 40.1–2.6 37.29N 13.61W 0 3.6b **¶16030508**
CSEM II 17 18 16 43.5–.59 37.41N 13.33W 10 3.2L
INMG II 17 18 16 43.4–.95 36.97N 13.87W 10 2.5L
ISC Event type ke.
MDD Error ellipse: s-maj=22.4km s-min=16.0km az=37.0. PRXIMO SOLUCIN POBRE.
CSEM Event type ke. Error ellipse: s-maj=11.4km s-min=7.8km az=27.0.
INMG Event type ke. Error ellipse: s-maj=11.4km s-min=9.6km az=133.0.
ISC III 06 07 37 09.7–3.1 36.8N–.10 11.3W–.10 10 153 2-8
MDD III 06 07 37 13.3–1.6 36.68N 11.37W 30 3.9b **¶16196709**
INMG III 06 07 37 14.5–1.3 36.66N 11.36W 39–21 2.1L
CSEM III 06 07 37 15.8–.37 36.86N 11.14W 30 2.1L
ISC Event type ke.
MDD Error ellipse: s-maj=13.6km s-min=11.4km az=54.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=6.2km s-min=4.5km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.4km az=54.0.
ISC III 11 21 57 32.6–2.5 36.65N–.07 12.5W–.10 10 237 3-10
MDD III 11 21 57 37.2–1.5 36.78N 12.38W 0 4.4b **¶16406725**
IGIL III 11 21 57 37.9 36.81N 12.39W 0 2.6L
INMG III 11 21 57 38.3–1.1 36.53N 12.74W 10 2.8L
CSEM III 11 21 57 39.7–.29 36.87N 12.15W 10 3.4L
ISC Event type ke.
MDD Error ellipse: s-maj=13.5km s-min=9.7km az=50.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.4km s-min=3.2km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=51.0.
ISC IV 07 07 00 06.1–3.7 37.49N–.10 14.5W–.20 10 100 4-7
MDD IV 07 07 00 08.5–2.5 37.48N 14.47W 0 4.2b **¶16705891**
INMG IV 07 07 00 10.3–1.3 37.28N 14.77W 0 2.5L
CSEM IV 07 07 00 11.8–.54 37.61N 14.14W 5 3.3L
ISC Event type ke.
MDD Error ellipse: s-maj=23.4km s-min=17.5km az=31.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=10.1km s-min=7.7km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=11.0km s-min=7.9km az=30.0.
ISC IV 10 05 22 20.9–2.2 36.82N–.06 12.3W–.10 10 352 3-14
MDD IV 10 05 22 22.0–.99 36.75N 12.34W 0 4.7b **¶16416038**
ISCJB IV 10 05 22 23.4–.57 36.93N–.03 12.09W–.04 10 4.7b
IGIL IV 10 05 22 23.6 36.83N 12.33W 1 3.4L
LDG IV 10 05 22 24.3–1.1 36.79N 12.25W 30 3.6L
INMG IV 10 05 22 25.0–1.7 36.67N 12.57W 0 3.4L,3.3
CNRM IV 10 05 22 26.7 36.34N 12.42W 30 3.8,3.3
CSEM IV 10 05 22 26.6–.27 36.89N 12.17W 30 4.2L,3.3
ISC Event type ke.
MDD Error ellipse: s-maj=9.8km s-min=7.2km az=94.0. PRXIMO.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=4.1km az=139.8.
LDG Event type ke. Error ellipse: s-maj=21.0km s-min=16.9km az=46.0.
INMG Event type ke. Error ellipse: s-maj=4.8km s-min=3.8km az=85.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.8km az=70.0.
ISC IV 18 11 04 57.9–1.2 36.57N–.05 11.17W–.07 10 385 2-26
ISCJB IV 18 11 04 57.4–.45 36.53N–.02 11.10W–.04 10 3.0b **¶16444283**
LDG IV 18 11 05 00.7–.38 36.48N 11.42W 30 3.8L
MDD IV 18 11 05 00.5–.64 36.45N 11.38W 65–28 4.7b
SFS IV 18 11 05 00.0 36.48N 11.30W 47 4.9L
IDC IV 18 11 05 01.1–4.1 36.51N 10.80W 0 4.8L,3.9
CSEM IV 18 11 05 01.4–.28 36.53N 11.15W 30 4.3L,3.9
INMG IV 18 11 05 01.7–1.9 36.46N 11.36W 31–7 3.4L,3.3
IGIL IV 18 11 05 01.3 36.56N 11.17W 3 3.3L,3.3
CNRM IV 18 11 05 03.8 36.29N 11.06W 30 3.7,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.5km az=3.7.
LDG Event type ke. Error ellipse: s-maj=7.2km s-min=6.6km az=53.0.
MDD Error ellipse: s-maj=7.8km s-min=5.6km az=116.0. PRXIMO.
SFS Event type ke.
IDC Error ellipse: s-maj=69.1km s-min=28.4km az=106.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=75.0.
INMG Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=117.0.
ISC IV 19 17 40 17.9–1.2 36.34N–.07 10.52W–.09 37–3 352 2-147
IDC IV 19 17 40 13.3–2.3 36.15N 10.55W 0 4.8L,3.6 **¶16447765**
NEIC IV 19 17 40 14.4–.87 36.19N 10.56W 10 4.0b,3.6
MDD IV 19 17 40 15.7–.85 36.31N 10.49W 0 3.5,3.6
CSEM IV 19 17 40 16.4–.29 36.33N 10.39W 10 4.3L,3.6
SFS IV 19 17 40 16.0 36.25N 10.70W 30 3.5L,3.6
CNRM IV 19 17 40 17.9 36.20N 10.40W 30 3.6,3.6
INMG IV 19 17 40 18.4–1.8 36.24N 10.62W 31–10 3.3L,2.9
LDG IV 19 17 40 18.4–.20 36.28N 10.64W 30 3.7L,2.9
IGIL IV 19 17 40 18.4 36.25N 10.58W 31 3.3L,2.9
ISC Event type ke.
IDC Error ellipse: s-maj=60.1km s-min=31.2km az=90.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=7.5km az=95.0.
MDD Error ellipse: s-maj=8.5km s-min=6.1km az=87.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=74.0.
SFS Event type ke.
INMG Event type ke. Error ellipse: s-maj=5.8km s-min=3.4km az=65.0.
LDG Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=46.0.
ISC IV 20 21 46 55.2–3.4 37.24N–.09 13.5W–.20 10 113 4-7
IGIL IV 20 21 46 57.5 37.24N 13.44W 0 1.6L **¶16449640**
MDD IV 20 21 46 58.2–2.1 37.23N 13.40W 0 3.9b
CSEM IV 20 21 47 00.9–.59 37.36N 13.12W 5 2.8L
INMG IV 20 21 47 00.4–1.1 36.98N 13.67W 0 2.1L
ISC Event type ke.
MDD Error ellipse: s-maj=20.4km s-min=15.2km az=20.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=8.6km az=31.0.
INMG Event type ke. Error ellipse: s-maj=7.4km s-min=6.7km az=1.0.
ISC IV 22 11 13 15.8–2.4 37.98N–.08 19.8W–.10 10 76 4-12
MDD IV 22 11 13 18.4–3.3 37.78N 19.93W 0 4.6b **¶16707712**
CSEM IV 22 11 13 22.7–.47 37.66N 19.40W 10 3.8L
INMG IV 22 11 13 22.1–3.4 37.86N 20.29W 10 3.3L
ISC Event type ke.
MDD Error ellipse: s-maj=34.8km s-min=15.9km az=115.0. PRXIMO SIN SOLUCIN.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=5.0km az=129.0.
INMG Event type ke. Error ellipse: s-maj=20.2km s-min=7.4km az=162.0.
ISC IV 23 19 55 05.6–2.7 37.27N–.06 13.6W–.10 10 302 4-26
MDD IV 23 19 55 03.0–1.3 37.24N 13.97W 0 4.5b **¶16452969**
IGIL IV 23 19 55 04.8 37.35N 13.90W 3 3.0L
CNRM IV 23 19 55 05.7 37.15N 13.89W 30 3.9
INMG IV 23 19 55 05.3–1.9 37.00N 14.25W 10 3.2L
CSEM IV 23 19 55 07.1–.29 37.27N 13.55W 10 3.8L
LDG IV 23 19 55 07.2–1.3 37.67N 13.53W 2 3.3L
ISC Event type ke.
MDD Error ellipse: s-maj=13.3km s-min=8.8km az=90.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=5.5km s-min=2.6km az=129.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=4.6km az=88.0.
LDG Event type ke. Error ellipse: s-maj=24.2km s-min=19.3km az=63.0.
ISC IV 27 19 56 51.8–1.8 35.93N–.06 10.39W–.08 10 221 2-8
ISCJB IV 27 19 56 53.0–.56 35.97N–.03 10.19W–.04 10 **¶16465537**
CSEM IV 27 19 56 53.7–.31 35.92N 10.29W 10 3.8L
MDD IV 27 19 56 54.0–.94 35.95N 10.33W 0 3.0
CNRM IV 27 19 56 56.9 35.78N 10.30W 30 3.6
INMG IV 27 19 56 57.3–1.0 36.04N 10.33W 10 2.7,2.6L
IGIL IV 27 19 56 57.4 35.90N 10.40W 31 2.6L,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=3.5.
CSEM Event type ke. Error ellipse: s-maj=7.6km s-min=4.7km az=92.0.
MDD Error ellipse: s-maj=10.2km s-min=6.9km az=94.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=70.0.
ISC V 11 08 56 32.8–3.1 37.56N–.08 13.2W–.10 10 175 3-8
IGIL V 11 08 56 34.8 37.59N 13.17W 0 2.4L **¶16504102**
MDD V 11 08 56 36.2–1.6 37.56N 13.06W 0 4.3b
INMG V 11 08 56 38.4–.90 37.41N 13.40W 10 2.7L
CSEM V 11 08 56 39.4–.32 37.69N 12.79W 10 3.4L
ISC Event type ke.
MDD Error ellipse: s-maj=14.9km s-min=11.8km az=54.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=86.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=4.6km az=59.0.
ISC V 18 22 52 51.2–3.7 37.62N–.09 15.1W–.20 10 156 5-9
MDD V 18 22 52 51.8–2.0 37.55N 15.19W 0 4.1b **¶16528322**
IGIL V 18 22 52 52.2 37.58N 15.24W 0 2.5L
INMG V 18 22 52 52.5–1.9 37.33N 15.66W 10 2.7L
CSEM V 18 22 52 56.2–.35 37.64N 14.80W 10 3.1L
ISC Event type ke.
MDD Error ellipse: s-maj=18.9km s-min=16.2km az=31.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=7.9km s-min=4.4km az=124.0.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=24.0.
ISC V 24 00 44 50.9–1.9 35.60N–.08 17.0W–.10 10 118 3-11
MDD V 24 00 44 54.2–2.2 35.39N 16.91W 0 4.1b **¶16536043**
INMG V 24 00 44 56.6–2.1 35.65N 17.36W 10 2.8L
CSEM V 24 00 44 59.1–.70 35.18N 16.32W 10 3.4L
ISC Event type ke.
MDD Error ellipse: s-maj=30.3km s-min=6.8km az=121.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=14.2km s-min=3.7km az=115.0.
CSEM Event type ke. Error ellipse: s-maj=25.8km s-min=7.7km az=134.0.
ISC V 25 02 58 50.5–3.3 37.25N–.09 13.1W–.20 10 163 3-8
IGIL V 25 02 58 51.4 37.20N 13.14W 0 2.4L **¶16539630**
MDD V 25 02 58 51.4–1.8 37.20N 13.08W 0 4.2b
INMG V 25 02 58 53.5–.83 37.06N 13.42W 10 2.6L
CSEM V 25 02 58 54.5–.36 37.37N 12.83W 10 3.4L
ISC Event type ke.
MDD Error ellipse: s-maj=16.3km s-min=13.5km az=34.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=4.3km s-min=3.6km az=92.0.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=5.5km az=41.0.
ISC VI 04 03 56 41.1–.31 36.49N–.01 11.33W–.01 10 290 2-13
ISCJB VI 04 03 56 43.6–.45 36.54N–.03 11.14W–.04 10 **¶16556905**
CSEM VI 04 03 56 46.3–.18 36.48N 11.32W 30 3.6L
MDD VI 04 03 56 46.5–.55 36.47N 11.39W 30 4.3b
INMG VI 04 03 56 47.9–1.9 36.48N 11.37W 31–8 2.9,2.9L
IGIL VI 04 03 56 47.5 36.47N 11.36W 31 2.6L,2.9L
LDG VI 04 03 56 47.9–.22 36.54N 11.34W 20 3.1L,2.9L
CNRM VI 04 03 56 49.1 36.40N 11.05W 30 3.6,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=30.2.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.6km az=128.0.
MDD Error ellipse: s-maj=7.1km s-min=4.7km az=126.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=116.0.
LDG Event type ke. Error ellipse: s-maj=4.3km s-min=3.1km az=46.0.
ISC VI 20 12 00 30.4–3.7 37.1N–.10 12.7W–.20 10 100 3-7
MDD VI 20 12 00 31.0–2.1 37.10N 12.76W 0 3.6b **¶16638804**
INMG VI 20 12 00 32.1–.77 36.87N 13.17W 10 2.1L
IGIL VI 20 12 00 32.0 37.13N 12.73W 1 1.4L
CSEM VI 20 12 00 33.3–.36 37.18N 12.56W 10 2.7L
ISC Event type ke.
MDD Error ellipse: s-maj=19.6km s-min=16.1km az=45.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=5.7km s-min=4.8km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=5.6km az=38.0.
ISC VI 28 23 28 37.4–3.9 37.5N–.10 13.8W–.20 10 87 4-7
MDD VI 28 23 28 35.2–2.6 37.39N 13.98W 0 3.9b **¶16684792**
INMG VI 28 23 28 37.2–.80 37.34N 14.35W 10 2.2L
CSEM VI 28 23 28 39.0–.34 37.56N 13.66W 10 2.7L
ISC Event type ke.
MDD Error ellipse: s-maj=25.4km s-min=19.6km az=40.0. PRXIMO.
INMG Event type ke. Error ellipse: s-maj=9.0km s-min=5.5km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.0km az=44.0.

SEISMIC REGION 33.
Indian Ocean.

(415) Eastern Gulf of Aden.

ISC I 05 22 14 22.9–1.3 13.7N–.20 50.57E–.08 21 3.6b,3.3s 15 2-57
IDC I 05 22 14 16.0–1.8 12.98N 51.00E 0 3.7,3.6 **¶17189548**
ISCJB I 05 22 14 20.1–.00 13.5N–.10 50.60E–.05 21 3.5b,3.2s
DHMR I 05 22 14 22.8–2.6 13.81N 50.54E 47–609 3.8L,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=45.6km s-min=19.9km az=164.0.
ISCJB Event type ke. Error ellipse: s-maj=18.5km s-min=6.5km az=170.3.
DHMR Error ellipse: s-maj=146.9km s-min=617.6km az=-1.0.
ISC I 06 09 08 12.3–.97 14.2N–.20 51.50E–.08 21 3.8b,3.3s 14 2-89
IDC I 06 09 08 09.0–1.1 14.01N 51.62E 0 4.3L,3.8 **¶17189579**
ISCJB I 06 09 08 10.4–.72 14.1N–.20 51.49E–.05 21 3.7b,3.4s
DHMR I 06 09 08 15.5–.35 14.15N 51.11E 13–69 4.7L,3.4s
ISC Event type ke.
IDC Error ellipse: s-maj=37.0km s-min=22.8km az=162.0.
ISCJB Event type ke. Error ellipse: s-maj=22.9km s-min=6.3km az=174.2.
DHMR Error ellipse: s-maj=128.7km s-min=60.0km az=-1.0.
ISC I 12 04 27 25.3–.73 13.44N–.10 50.46E–.08 21 4.1b,3.8s 27 2-89
IDC I 12 04 27 21.4–.78 13.27N 50.62E 0 4.1,4.0 **¶16002290**
NEIC I 12 04 27 22.9–.42 13.30N 50.63E 10 4.0b,4.0
ISCJB I 12 04 27 23.1–.53 13.40N–.07 50.45E–.05 21 4.0b,3.8s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 05 21 22 43.8–.57 13.18N–.09 50.97E–.07 16 3.9b 23 2-110
IDC II 05 21 22 41.7–1.3 13.12N 51.11E 0 3.9,3.9L **¶16328737**
ISCJB II 05 21 22 42.2–.49 13.18N–.09 50.99E–.06 16 4.1b,3.3s
NEIC II 05 21 22 43.2–.29 13.13N 51.11E 10 4.2b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=32.2km s-min=24.5km az=6.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=7.7km az=21.8.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=7.3km az=168.0.
IDC II 11 14 28 15.1–1.4 13.30N 51.31E 0 3.5,3.4b
¶17192079
IDC Error ellipse: s-maj=43.8km s-min=30.5km az=167.0.
ISC II 20 09 09 58.1–.48 13.70N–.04 51.64E–.04 10–2 5.1b,4.7s 835 3-169
BJI II 20 09 09 50.2 13.04N 51.14E 10 5.3b,5.1b **¶16032970**
STR II 20 09 09 53.4–.00 13.96N 52.60E 4.8b,5.1b
ISCJB II 20 09 09 56.2–.18 13.67N–.03 51.63E–.02 10 5.0b,4.7s
OMAN II 20 09 09 56.3–.16 13.80N 51.61E 0 5.0b,4.7s
MOS II 20 09 09 56.0–.85 13.67N 51.59E 10 5.3b,4.7s
IDC II 20 09 09 56.3–.47 13.65N 51.67E 0 4.9L,4.8
SFS II 20 09 09 58.0 13.67N 51.60E 10 5.2L,4.8

GCMT II 20 09 09 58.0–.10 13.84N 51.47E 21–0 5.4W,4.8
CSEM II 20 09 09 58.2–.13 13.71N 51.64E 10 5.1b,4.8
NEIC II 20 09 09 58.0–.22 13.67N 51.64E 10 5.2b,4.8
DHMR II 20 09 10 03.4–.74 13.58N 50.77E 0–66 5.2b,4.8
ISN II 20 09 10 12.7–1.9 13.99N 55.05E 339–29 3.7L,4.8
ISC Event type ke.
STR Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.5km az=17.3.
OMAN Error ellipse: s-maj=19.3km s-min=9.2km az=304.0.
MOS Error ellipse: s-maj=7.1km s-min=3.7km az=101.5.
IDC Error ellipse: s-maj=11.3km s-min=10.6km az=146.0.
SFS Event type ke.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s94,c163; s115,c231; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.02 $M_{\theta\theta}$1.10±.02; $M_{\phi\phi}$-1.18±.03; $M_{r\theta}$0.13±.04; $M_{\theta\phi}$0.96±.02; $M_{\phi r}$0.47±.05; Best double couple: NP1:ϕ_s205.00000°,δ89.00000° ,λ-162.00000°. NP2:ϕ_s115.00000°,δ72.00000°,λ-1.00000°. Principal axes: T 1.5080,Plg12.0000°,Azm338.0000°; N 0.1120,Plg72.0000°,Azm209.0000° ; P -1.6260,Plg13.0000°,Azm71.0000° $M_0$1.56700×10^{17}
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=4.0km az=176.0.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=4.5km az=182.0.
DHMR Error ellipse: s-maj=22.4km s-min=151.4km az=-1.0.
ISN Error ellipse: s-maj=37.9km s-min=76.1km az=-1.0.
DHMR III 09 18 20 37.8–9.1 13.47N 49.52E 53–210 3.9L
¶601875854
DHMR Error ellipse: s-maj=155.2km s-min=155.5km az=-1.0.
DHMR III 10 01 35 27.6–9.5 13.46N 49.46E 45–240 3.7L
¶601875857
DHMR Error ellipse: s-maj=142.8km s-min=171.3km az=-1.0.
DHMR III 11 01 28 33.1–1.3 14.71N 51.18E 0–18 3.9L
¶601875859
DHMR Error ellipse: s-maj=48.1km s-min=26.7km az=-1.0.
ISC IV 02 09 56 18.0–.84 14.6N–.10 52.15E–.08 15 3.9b,3.3s 19 3-126
IDC IV 02 09 56 15.8–.92 14.60N 52.29E 0 3.9,3.8b **¶17199512**
ISCJB IV 02 09 56 16.2–.64 14.7N–.10 52.13E–.06 15 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC V 31 00 36 20.8–.84 12.56N–.05 47.19E–.05 11–4 4.5b,3.8s 255 2-127
ISCJB V 31 00 36 18.4–1.8 12.46N–.04 47.22E–.03 9–11 4.5b,3.7s **¶16554405**
IDC V 31 00 36 18.7–.52 12.44N 47.35E 0 4.3,4.3
MOS V 31 00 36 18.6–1.0 12.38N 47.30E 10 4.8b,4.3
DHMR V 31 00 36 19.6–1.8 12.56N 46.85E 4–20 4.3L,4.3
CSEM V 31 00 36 20.5–.17 12.43N 47.30E 10 4.6b,4.3
NEIC V 31 00 36 20.3–3.6 12.41N 47.29E 11–22 4.5b,4.3
DSN V 31 00 36 21.4–.90 13.61N 45.66E 15 4.5b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.6km az=2.0.
IDC Error ellipse: s-maj=15.3km s-min=11.9km az=104.0.
MOS Error ellipse: s-maj=10.4km s-min=5.2km az=93.5.
DHMR Error ellipse: s-maj=14.7km s-min=15.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=6.6km az=160.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.0km az=117.0.
DSN Error ellipse: s-maj=120.7km s-min=4.8km az=124.0.
ISC VI 09 19 02 27.5–.53 12.45N–.07 47.39E–.06 14 4.3b,3.8s 83 2-128
IDC VI 09 19 02 25.4–.63 12.45N 47.58E 0 4.1,4.1 **¶16593336**
ISCJB VI 09 19 02 25.8–.38 12.49N–.05 47.40E–.03 14 4.2b,3.8s
NEIC VI 09 19 02 27.0–.42 12.43N 47.50E 10 4.6b,3.8s
CSEM VI 09 19 02 27.2–.28 12.48N 47.39E 10 4.7b,3.8s
DHMR VI 09 19 02 28.7–1.7 12.57N 46.99E 5–18 4.4L,3.8s
ISN VI 09 19 02 39.7–1.6 12.37N 47.46E 94–13 4.5L,3.8s
ISC Event type ke.
IDC Error ellipse: s-maj=15.5km s-min=13.9km az=109.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.0km az=14.2.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=7.7km az=139.0.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=8.0km az=4.0.
DHMR Error ellipse: s-maj=14.0km s-min=14.7km az=-1.0.
ISN Error ellipse: s-maj=11.6km s-min=47.6km az=-1.0.
ISC VI 10 17 46 58.6–.41 12.58N–.06 47.50E–.05 14 4.3b,3.1s 139 2-128
ISCJB VI 10 17 46 56.7–.32 12.51N–.05 47.51E–.03 14 4.3b,3.1s **¶16856889**
CSEM VI 10 17 46 56.8–.17 12.51N 47.56E 2 4.4b,3.1s
IDC VI 10 17 46 56.4–.69 12.42N 47.64E 0 4.1,4.0
NEIC VI 10 17 46 57.7–.26 12.44N 47.61E 10 4.4b,4.0
DHMR VI 10 17 47 00.5–1.2 12.60N 47.03E 13–13 4.0L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.7km az=3.8.
CSEM Event type ke. Error ellipse: s-maj=7.9km s-min=5.9km az=167.0.
IDC Error ellipse: s-maj=17.1km s-min=15.0km az=154.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=5.1km az=157.0.
DHMR Error ellipse: s-maj=9.9km s-min=10.8km az=-1.0.
ISC VI 10 18 16 54.0–.51 12.39N–.07 47.44E–.06 14 4.4b,3.2s 99 2-92
IDC VI 10 18 16 52.6–.97 12.48N 47.59E 0 3.9b,3.9 **¶16856892**
ISCJB VI 10 18 16 53.0–.41 12.50N–.06 47.50E–.04 14 4.4b,3.2s
CSEM VI 10 18 16 53.3–.26 12.53N 47.52E 2 4.7b,3.2s
NEIC VI 10 18 16 54.4–.42 12.47N 47.65E 10 4.7b,3.2s
DHMR VI 10 18 16 56.6–1.6 12.54N 46.99E 9–19 3.8L,3.2s
ISC Event type ke.
IDC Error ellipse: s-maj=27.3km s-min=19.9km az=159.0.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.2km az=11.6.
CSEM Event type ke. Error ellipse: s-maj=12.1km s-min=7.4km az=10.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=7.9km az=180.0.
DHMR Error ellipse: s-maj=13.7km s-min=16.0km az=-1.0.
ISC VI 12 01 18 24.1–.94 12.4N–.10 47.17E–.08 10 3.7b,3.2s 17 2-62
ISCJB VI 12 01 18 23.0–.72 12.46N–.07 47.20E–.05 10 3.7b,3.2s **¶17205806**
IDC VI 12 01 18 22.7–1.6 12.33N 47.35E 0 3.7,3.6
DHMR VI 12 01 18 25.6–1.5 12.48N 46.96E 16–17 4.0L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=6.8km az=12.0.
IDC Error ellipse: s-maj=36.5km s-min=24.6km az=166.0.
DHMR Error ellipse: s-maj=12.4km s-min=14.8km az=-1.0.
ISC VI 13 21 43 36.1–.60 12.58N–.09 48.11E–.08 12 4.2b,3.5s 41 4-91
IDC VI 13 21 43 34.9–.88 12.64N 48.21E 0 4.1,3.9 **¶16730429**
ISCJB VI 13 21 43 35.1–.46 12.73N–.08 48.11E–.05 12 4.2b,3.5s
NEIC VI 13 21 43 35.7–.53 12.47N 48.16E 10 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=24.5km s-min=19.5km az=166.0.
ISCJB Event type ke. Error ellipse: s-maj=10.9km s-min=7.0km az=4.8.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=9.7km az=208.0.

(416) Socotra region.

ISC III 02 19 40 23.1–2.1 13.4N–.20 57.0E–.30 10 3.7b 8 10-84
IDC III 02 19 40 21.1–2.0 13.36N 56.92E 0 3.9,3.7 **¶17193158**
ISCJB III 02 19 40 21.7–1.7 13.5N–.20 57.0E–.30 10 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.

(417) Arabian Sea.

IDC IV 05 03 16 45.8–7.6 10.10N 64.18E 0 3.6,3.5b
¶17199840
IDC Error ellipse: s-maj=204.4km s-min=31.4km az=144.0.

(421) Carlsberg Ridge.

ISC I 03 03 04 17.0–1.6 2.7N–.30 66.4E–.30 20 3.5b 7 10-147
IDC I 03 03 04 14.2–1.4 2.67N 66.48E 0 3.7,3.5 **¶17189287**
ISCJB I 03 03 04 15.1–1.4 2.7N–.20 66.5E–.30 20 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC I 17 01 01 11.5–1.2 3.47N 65.94E 0 3.7,3.5
¶17190359
IDC Error ellipse: s-maj=44.9km s-min=25.8km az=41.0.
IDC II 03 06 24 49.0–2.7 7.58N 59.65E 0 3.7,3.6
¶17191576
IDC Error ellipse: s-maj=67.9km s-min=29.9km az=168.0.
IDC II 11 05 20 31.4–2.6 1.47N 67.14E 0 3.8,3.7b
¶17192050
IDC Error ellipse: s-maj=88.4km s-min=29.1km az=68.0.
IDC III 09 18 05 54.1–1.1 1.51N 66.34E 0 3.8,3.6
¶17193572
IDC Error ellipse: s-maj=34.3km s-min=25.9km az=17.0.
ISC III 11 21 39 36.1–.66 9.18N–.10 58.15E–.10 11 4.4b 92 14-127
IDC III 11 21 39 34.4–.67 9.19N 58.13E 0 4.6,4.6s **¶16409252**
ISCJB III 11 21 39 34.7–.52 9.28N–.07 58.03E–.07 11 4.7s,4.4b
NEIC III 11 21 39 36.0–.39 9.21N 58.08E 10 4.5b,4.4b
VIE III 11 21 39 35.6 9.47N 58.13E 0 4.3b,4.4b
CSEM III 11 21 39 36.4–.23 9.24N 58.10E 10 4.6b,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=20.2km s-min=12.6km az=133.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=8.6km az=37.9.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=6.8km az=127.0.
VIE Event type ke.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=7.8km az=130.0.
ISC III 18 05 07 36.9–.71 2.2S–.10 68.1E–.10 15 4.2b 40 5-152
IDC III 18 05 07 34.1–.91 2.26S 68.04E 0 4.2,4.0b **¶16442629**
ISCJB III 18 05 07 34.8–.58 2.20S–.09 68.04E–.10 15 4.2b,3.5s
NEIC III 18 05 07 35.9–.35 2.23S 68.05E 10 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=20.5km az=39.0.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=11.6km az=146.2.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.3km az=223.0.
ISC III 23 16 08 23.5–.89 0.3S–.20 67.2E–.10 10 4.0b 15 7-150
ISCJB III 23 16 08 21.7–.67 0.3S–.10 67.2E–.10 10 4.1b,3.6s **¶16450729**
IDC III 23 16 08 22.1–.83 0.35S 67.14E 0 4.2L,4.1
NEIC III 23 16 08 23.5–.46 0.32S 67.15E 10 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=13.9km az=142.5.
IDC Error ellipse: s-maj=25.7km s-min=20.7km az=140.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=10.2km az=146.0.
IDC IV 03 19 34 43.4–4.4 2.36S 67.81E 0 3.8,3.7b
¶17199694
IDC Error ellipse: s-maj=108.4km s-min=40.2km az=173.0.
IDC IV 07 08 09 27.3–5.7 2.62S 68.39E 0 4.1,3.8
¶17200088
IDC Error ellipse: s-maj=144.0km s-min=41.4km az=81.0.
ISC IV 27 11 55 54.7–.77 1.7N–.10 66.9E–.10 13 4.3b,3.8s 22 9-148
ISCJB IV 27 11 55 52.8–.58 1.7N–.10 66.96E–.09 13 4.2b,3.7s **¶16577902**
IDC IV 27 11 55 52.6–.66 1.66N 66.90E 0 4.2,4.1b
NEIC IV 27 11 55 54.1–.47 1.64N 66.96E 10 4.6b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=12.0km az=143.4.
IDC Error ellipse: s-maj=19.1km s-min=17.6km az=134.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=10.6km az=149.0.
ISC V 05 02 13 46.3–.61 6.58N–.09 60.38E–.09 10 4.3b,4.0s 56 17-99
ISCJB V 05 02 13 44.6–.43 6.56N–.06 60.32E–.07 10 4.2b,4.0s **¶16497716**
IDC V 05 02 13 44.4–.74 6.50N 60.34E 0 4.1,4.0
NEIC V 05 02 13 46.3–.49 6.51N 60.38E 10 4.5b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=8.6km az=169.7.
IDC Error ellipse: s-maj=18.7km s-min=16.9km az=171.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=10.2km az=166.0.
IDC V 05 17 05 01.9–.99 6.75N 60.17E 0 4.4,4.3
¶17202869
IDC Error ellipse: s-maj=43.5km s-min=24.0km az=177.0.
IDC V 05 17 06 18.4–1.1 6.69N 60.31E 0 4.5s,4.5
¶17202870
IDC Error ellipse: s-maj=39.6km s-min=26.3km az=17.0.
IDC V 05 17 26 02.3–1.1 6.76N 60.28E 0 3.7,3.6
¶17202873
IDC Error ellipse: s-maj=30.0km s-min=21.9km az=168.0.
ISC V 09 21 39 30.7–.31 1.53N–.04 68.18E–.05 10 4.8b,4.2s 250 8-151
ISCJB V 09 21 39 28.4–.22 1.43N–.03 68.11E–.03 10 4.7b,4.2s **¶16503267**
IDC V 09 21 39 28.6–.46 1.42N 68.15E 0 5.9L,4.6
MOS V 09 21 39 28.3–1.2 1.44N 68.09E 10 5.0b,4.6
GCMT V 09 21 39 30.2–.40 1.34N 68.23E 29–2 5.0W,4.6
NEIC V 09 21 39 30.2–.22 1.41N 68.12E 10 4.9b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.0km az=144.0.
IDC Error ellipse: s-maj=14.0km s-min=12.0km az=155.0.
MOS Error ellipse: s-maj=9.2km s-min=5.8km az=96.2.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c16; s71,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.85±.34 $M_{\theta\theta}$3.00±.20; $M_{\phi\phi}$-2.16±.20; $M_{r\theta}$1.13±.26; $M_{\theta\phi}$1.00±.14; $M_{\phi r}$-3.08±.48; Best double couple: NP1:ϕ_s302.00000°,δ74.00000° ,λ-39.00000°. NP2:ϕ_s44.00000°,δ53.00000°,λ-159.00000°. Principal axes: T 3.3150,Plg13.0000°,Azm357.0000°; N 1.6090,Plg48.0000°,Azm102.0000° ; P -4.9330,Plg39.0000°,Azm256.0000° $M_0$4.12400×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=5.4km az=188.0.
IDC V 21 04 25 23.6–2.0 3.35S 67.62E 0 3.9,3.8
¶17204108
IDC Error ellipse: s-maj=57.4km s-min=27.4km az=65.0.
IDC VI 01 17 48 38.1–3.7 1.95S 68.36E 0 3.7,3.6b
¶17204913
IDC Error ellipse: s-maj=95.6km s-min=35.0km az=64.0.
ISC VI 06 13 45 58.0–1.8 3.8N–.30 64.1E–.30 10 4.1b,3.2s 10 12-145
ISCJB VI 06 13 45 57.0–1.5 3.9N–.20 64.3E–.30 10 4.0b,3.2s **¶16646377**
IDC VI 06 13 45 56.6–1.6 3.83N 64.17E 0 4.1,3.9b
NEIC VI 06 13 45 58.0–1.1 3.78N 64.13E 10 4.4b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=50.0km s-min=18.1km az=147.7.
IDC Error ellipse: s-maj=58.1km s-min=22.4km az=58.0.
NEIC Event type se. Error ellipse: s-maj=39.8km s-min=15.9km az=57.0.
ISC VI 10 05 24 31.3–1.3 6.2N–.30 60.5E–.20 10 3.8s,3.6b 8 16-89
ISCJB VI 10 05 24 29.4–1.1 6.2N–.20 60.5E–.10 10 3.8s,3.5b **¶17205686**
IDC VI 10 05 24 29.6–1.4 6.20N 60.54E 0 3.7s,3.7
GCMT VI 10 05 24 32.0–.40 6.21N 60.63E 12 4.8W,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.4km s-min=18.8km az=10.9.
IDC Error ellipse: s-maj=39.4km s-min=23.6km az=12.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c30; s60,c80; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.43±.07 $M_{\theta\theta}$1.00±.07; $M_{\phi\phi}$0.43±.08; $M_{r\theta}$-0.26±.27; $M_{\theta\phi}$-0.50±.06; $M_{\phi r}$-1.27±.30; Best double couple: NP1:ϕ_s334.00000° ,δ63.00000°,λ-62.00000°. NP2:ϕ_s104.00000°,δ38.00000°,λ-133.00000°. Principal axes: T 1.3980,Plg14.0000°,Azm44.0000°; N 0.7450,Plg25.0000°,Azm141.0000° ; P -2.1420,Plg61.0000°,Azm288.0000° $M_0$1.77000×10^{16}
IDC VI 10 05 35 39.7–1.5 6.35N 60.46E 0 3.6,3.5b
¶17205687
IDC Error ellipse: s-maj=42.1km s-min=30.0km az=27.0.
ISC VI 10 11 48 09.1–.89 0.8N–.10 67.35E–.09 10 4.0b,3.3s 22 8-149
ISCJB VI 10 11 48 07.0–.76 0.8N–.10 67.31E–.09 10 4.1b,3.4s **¶16856869**
IDC VI 10 11 48 07.7–1.0 0.80N 67.25E 0 4.3L,4.0
NEIC VI 10 11 48 08.8–.66 0.72N 67.26E 10 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=11.1km az=24.3.
IDC Error ellipse: s-maj=32.7km s-min=19.8km az=43.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=10.3km az=206.0.
ISC VI 15 03 42 38.2–.53 4.85N–.09 62.23E–.07 16 4.5b,3.6s 147 14-143
BJI VI 15 03 42 28.4 4.03N 61.61E 10 4.9b,4.6b **¶16601820**
MOS VI 15 03 42 35.6–1.1 4.88N 62.21E 10 4.8b,4.6b
IDC VI 15 03 42 35.6–.52 4.93N 62.24E 0 4.4,4.2b
ISCJB VI 15 03 42 36.5–.33 4.88N–.05 62.18E–.04 16 4.5b,3.6s
NEIC VI 15 03 42 37.4–.27 4.86N 62.22E 10 4.9b,3.6s
ISC Event type se.
MOS Error ellipse: s-maj=10.1km s-min=6.4km az=105.2.

IDC Error ellipse: s-maj=17.1km s-min=12.5km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=6.1km az=165.2.
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=6.2km az=145.0.

ISC	**VI**	**23 05 23 13.1–1.2**	**7.4N–.20**	**59.6E–.20**	**25**	**3.9b**	**17**	**17-79**
IDC	VI	23 05 23 09.1–1.2	7.45N	59.57E	0	3.9,3.8b		¶16731286
NEIC	VI	23 05 23 10.7–.94	7.43N	59.57E	10	4.0b,3.8b		
ISCJB	VI	23 05 23 11.4–.97	7.5N–.10	59.6E–.10	25	3.8b,3.5s		

ISC Event type se.
NEIC Event type se.
ISCJB Event type se.

(425) South Indian Ocean.

IDC	**I**	**18 19 47 26.9–3.4**	**38.07S**	**51.55E**	**0**	**4.0L,3.8**		
								¶17190503

IDC Error ellipse: s-maj=114.5km s-min=36.2km az=54.0.

ISC	**I**	**23 23 28 09.1–1.6**	**26.7S–.30**	**79.9E–.20**	**10**	**3.8b**	**9**	**20-86**
ISCJB	I	23 23 28 07.5–1.3	26.6S–.20	79.9E–.20	10	3.8b,3.4s		¶16135639
IDC	I	23 23 28 07.4–1.7	26.69S	79.81E	0	3.8,3.8b		
NEIC	I	23 23 28 09.1–.94	26.68S	79.87E	10	4.2b,3.8b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=40.0km s-min=18.4km az=32.6.
IDC Error ellipse: s-maj=60.0km s-min=31.9km az=24.0.
NEIC Event type se. Error ellipse: s-maj=28.2km s-min=13.0km az=214.0.

ISC	**I**	**30 04 04 04.9–.71**	**37.4S–.20**	**51.4E–.10**	**10**	**4.2b,3.7s**	**20**	**19-153**
ISCJB	I	30 04 04 03.4–.56	37.4S–.10	51.4E–.10	10	4.2b,3.7s		¶16136170
IDC	I	30 04 04 03.1–.97	37.54S	51.32E	0	4.2,4.1b		
NEIC	I	30 04 04 04.7–.50	37.34S	51.37E	10	4.4b,4.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.4km s-min=13.1km az=20.0.
IDC Error ellipse: s-maj=46.8km s-min=19.7km az=20.0.
NEIC Event type se. Error ellipse: s-maj=20.8km s-min=12.4km az=199.0.

ISC	**I**	**30 13 29 07.9–.56**	**37.5S–.10**	**51.5E–.10**	**10**	**4.2b,3.8s**	**31**	**19-158**
ISCJB	I	30 13 29 06.4–.43	37.46S–.09	51.5E–.10	10	4.2b,3.8s		¶16024669
IDC	I	30 13 29 06.4–.70	37.43S	51.48E	0	4.1,4.0b		
NEIC	I	30 13 29 07.9–.35	37.53S	51.43E	10	4.5b,4.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.2km s-min=11.8km az=18.9.
IDC Error ellipse: s-maj=32.9km s-min=17.1km az=13.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=10.2km az=214.0.

ISC	**I**	**30 14 19 32.5–1.2**	**37.5S–.40**	**51.5E–.20**	**10**	**4.0b,3.6s**	**10**	**24-158**
ISCJB	I	30 14 19 30.9–1.0	37.6S–.40	51.5E–.20	10	3.8b,3.6s		¶16024670
IDC	I	30 14 19 31.2–.94	37.49S	51.57E	0	4.0,3.9b		
NEIC	I	30 14 19 32.6–.71	37.44S	51.52E	10	4.0b,3.9b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=55.5km s-min=16.2km az=13.7.
IDC Error ellipse: s-maj=67.7km s-min=20.0km az=16.0.
NEIC Event type se. Error ellipse: s-maj=45.7km s-min=14.4km az=14.0.

ISC	**I**	**30 17 25 23.0–1.2**	**37.8S–.20**	**51.1E–.30**	**16**	**4.2b,3.8s**	**10**	**19-151**
ISCJB	I	30 17 25 20.7–1.2	37.7S–.10	51.0E–.30	16	4.1b,3.8s		¶16136225
IDC	I	30 17 25 21.5–2.5	37.74S	51.37E	0	4.2,4.0		
NEIC	I	30 17 25 22.0–.70	37.75S	51.13E	10	4.3b,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=39.1km s-min=18.4km az=162.8.
IDC Error ellipse: s-maj=100.5km s-min=37.3km az=47.0.
NEIC Event type se. Error ellipse: s-maj=25.8km s-min=13.5km az=69.0.

ISC	**I**	**30 19 44 41.5–1.0**	**37.4S–.40**	**51.4E–.20**	**10**	**3.9b**	**12**	**24-153**
ISCJB	I	30 19 44 39.8–.82	37.4S–.40	51.4E–.20	10	3.8b		¶17191360
IDC	I	30 19 44 39.9–.95	37.39S	51.39E	0	4.0,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=56.4km s-min=14.5km az=16.3.
IDC Error ellipse: s-maj=59.1km s-min=18.4km az=19.0.

ISC	**I**	**30 19 51 50.9–.46**	**37.7S–.10**	**51.62E–.10**	**10**	**4.6b,3.9s**	**64**	**19-172**
ISCJB	I	30 19 51 49.4–.43	37.51S–.10	51.70E–.10	10	4.5b,3.9s		¶15990270
BJI	I	30 19 51 49.7	38.40S	51.30E	10	5.2b,5.1s		
IDC	I	30 19 51 49.7–.57	37.47S	51.64E	0	4.4,4.3b		
NEIC	I	30 19 51 51.1–.34	37.54S	51.66E	10	4.8b,4.3b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=11.0km az=18.1.
IDC Error ellipse: s-maj=26.9km s-min=17.1km az=20.0.
NEIC Event type se. Error ellipse: s-maj=15.8km s-min=10.9km az=18.0.

ISC	**I**	**31 01 39 54.2–1.2**	**37.6S–.40**	**51.5E–.20**	**10**	**4.1b**	**7**	**50-158**
IDC	I	31 01 39 52.7–1.1	37.54S	51.49E	0	4.2,4.0		¶17191375

ISC Event type ke.
IDC Error ellipse: s-maj=56.6km s-min=27.0km az=15.0.

ISC	**I**	**31 01 40 42.7–1.2**	**37.6S–.40**	**51.7E–.20**	**10**	**4.0b**	**8**	**50-158**
IDC	I	31 01 40 41.2–1.1	37.57S	51.74E	0	4.1,3.9		¶17191378

ISC Event type ke.
IDC Error ellipse: s-maj=53.6km s-min=27.2km az=17.0.

IDC	**I**	**31 03 23 31.1–.92**	**37.29S**	**51.38E**	**0**	**4.3,4.1b**		
								¶17191384

IDC Error ellipse: s-maj=50.6km s-min=25.7km az=19.0.

ISC	**I**	**31 03 43 03.8–.62**	**37.5S–.20**	**51.7E–.10**	**10**	**4.3b,3.7s**	**26**	**19-158**
ISCJB	I	31 03 43 02.9–.54	37.4S–.10	51.9E–.10	10	4.2b,3.6s		¶16022427
IDC	I	31 03 43 02.2–.71	37.44S	51.70E	0	4.3,4.2		
NEIC	I	31 03 43 03.9–.48	37.45S	51.79E	10	4.5b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.0km s-min=12.5km az=33.1.
IDC Error ellipse: s-maj=30.7km s-min=16.7km az=23.0.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=13.1km az=32.0.

IDC	**II**	**12 12 31 21.3–3.3**	**34.74S**	**56.28E**	**0**	**3.8,3.6**		
								¶17192116

IDC Error ellipse: s-maj=335.6km s-min=28.1km az=24.0.

IDC	**III**	**03 06 58 47.5–1.9**	**35.21S**	**54.03E**	**0**	**3.7,3.5**		
								¶17193176

IDC Error ellipse: s-maj=98.4km s-min=34.9km az=25.0.

ISC	**III**	**08 21 56 40.1–.78**	**34.4S–.10**	**57.7E–.20**	**10**	**4.9b**	**36**	**14-151**
ISCJB	III	08 21 56 38.6–.65	34.34S–.10	57.8E–.20	10	4.3b,3.5s		¶16442204
IDC	III	08 21 56 39.8–2.2	34.29S	57.96E	0	4.3,4.1b		
NEIC	III	08 21 56 40.4–.49	34.35S	57.69E	10	4.9b,4.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.5km s-min=12.2km az=152.8.
IDC Error ellipse: s-maj=75.9km s-min=26.7km az=45.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=10.9km az=56.0.

ISC	**IV**	**10 00 26 31.8–1.0**	**56.4S–.20**	**112.1E–.30**	**10**	**3.8b**	**8**	**25-156**
ISCJB	IV	10 00 26 30.1–.90	56.3S–.10	112.1E–.40	10	3.7b		¶17200392
IDC	IV	10 00 26 30.2–.97	56.35S	112.09E	0	4.1,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.5km s-min=16.8km az=20.8.
IDC Error ellipse: s-maj=43.0km s-min=20.5km az=112.0.

IDC	**V**	**10 06 59 22.8–4.5**	**27.62S**	**60.97E**	**0**	**3.7,3.5**		
								¶17203186

IDC Error ellipse: s-maj=174.4km s-min=42.1km az=47.0.

(426) Chagos Archipelago region.

IDC	**I**	**04 22 33 10.6–2.4**	**7.80S**	**68.57E**	**0**	**3.8,3.6**		
								¶17189460

IDC Error ellipse: s-maj=59.6km s-min=35.6km az=43.0.

ISC	**I**	**10 03 21 35.9–.32**	**5.44S–.05**	**68.66E–.06**	**13**	**5.0b,4.2s**	**447**	**2-155**
BJI	I	10 03 21 28.3	5.94S	68.14E	10	5.1b,4.8b		¶15914932
MOS	I	10 03 21 33.7–.98	5.35S	68.60E	10	5.5s,5.1b		
IDC	I	10 03 21 34.1–.45	5.29S	68.60E	0	4.6,4.5b		
ISCJB	I	10 03 21 34.3–.27	5.36S–.05	68.57E–.04	13	4.8b,4.4s		
NEIC	I	10 03 21 35.5–.25	5.32S	68.55E	10	5.0b,4.4s		
GCMT	I	10 03 21 35.5–.30	5.44S	68.63E	12–1	4.9W,4.4s		

ISC Event type se.
MOS Error ellipse: s-maj=9.1km s-min=5.0km az=108.5.
IDC Error ellipse: s-maj=14.8km s-min=13.1km az=34.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.5km az=171.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.8km az=175.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s20,c24; s64,c90; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.15±.17 $M_{\theta\theta}$-0.23±.10; $M_{\phi\phi}$2.39±.12; $M_{r\theta}$-0.23±.37; $M_{\theta\phi}$-0.61±.07; $M_{\phi r}$-0.82±.25; Best double couple: NP1:ϕ_s358.00000°,δ55.00000°,λ-76.00000°. NP2:ϕ_s156.00000°,δ37.00000°,λ-108.00000°. Principal axes: T 2.6440,Plg9.0000°,Azm79.0000°; N -0.2900,Plg11.0000°,Azm171.0000°; P -2.3490,Plg76.0000°,Azm310.0000° $M_0$2.49700×10^{16}

ISC	**I**	**22 15 35 27.4–1.4**	**7.5S–.30**	**68.9E–.10**	**10**	**3.8b,3.6s**	**15**	**2-149**
IDC	I	22 15 35 24.6–1.7	7.57S	68.73E	0	3.9,3.7		¶17190751

ISC Event type ke.
IDC Error ellipse: s-maj=56.6km s-min=28.1km az=58.0.

ISC	**II**	**03 18 33 52.6–1.5**	**5.3S–.30**	**68.5E–.20**	**13**	**4.0b,3.6s**	**17**	**3-146**
ISCJB	II	03 18 33 50.4–1.7	5.3S–.30	68.5E–.20	13	4.0b,3.7s		¶16328649
IDC	II	03 18 33 50.7–1.5	5.27S	68.55E	0	4.0,3.9b		
NEIC	II	03 18 33 52.7–.81	5.18S	68.60E	10	4.2b,3.9b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=44.0km s-min=21.8km az=33.6.
IDC Error ellipse: s-maj=44.6km s-min=25.9km az=37.0.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=16.8km az=220.0.

ISC	**III**	**29 12 58 32.3–.41**	**4.08S–.07**	**68.38E–.07**	**10**	**4.7b,4.6s**	**110**	**3-154**
BJI	III	29 12 58 29.8	4.15S	68.35E	10	5.1b,4.8s		¶16389109
IDC	III	29 12 58 30.7–.51	4.00S	68.38E	0	4.6,4.6s		
ISCJB	III	29 12 58 30.5–.28	4.02S–.05	68.36E–.05	10	4.6s,4.5b		
NEIC	III	29 12 58 32.4–.27	4.00S	68.37E	10	4.8b,4.5b		
GCMT	III	29 12 58 32.4–.30	4.09S	68.36E	15	5.1W,4.5b		

ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=12.9km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=6.2km az=146.3.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.9km az=173.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c19; s82,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.98±.25 $M_{\theta\theta}$-3.75±.19; $M_{\phi\phi}$5.73±.18; $M_{r\theta}$-1.12±.82; $M_{\theta\phi}$-1.34±.18; $M_{\phi r}$1.21±.65; Best double couple: NP1:ϕ_s130.00000°,δ81.00000°,λ-156.00000°. NP2:ϕ_s36.00000°,δ67.00000°,λ-10.00000°. Principal axes: T 6.1430,Plg10.0000°,Azm261.0000°; N -1.8000,Plg65.0000°,Azm150.0000°; P -4.3430,Plg23.0000°,Azm355.0000° $M_0$5.24300×10^{16}

IDC	**IV**	**10 10 52 14.7–3.8**	**5.01S**	**69.01E**	**0**	**3.7,3.6**		
								¶17200452

IDC Error ellipse: s-maj=126.3km s-min=33.1km az=64.0.

ISC	**IV**	**18 21 39 53.8–1.4**	**7.8S–.20**	**68.2E–.10**	**15**	**4.0b,3.9s**	**23**	**3-157**
IDC	IV	18 21 39 50.6–1.3	7.99S	67.95E	0	4.1,3.9		¶16631130
ISCJB	IV	18 21 39 52.4–1.1	7.7S–.20	68.23E–.07	15	4.0b,3.8s		
NEIC	IV	18 21 39 52.3–.92	7.94S	67.99E	10	4.1b,3.8s		

ISC Event type se.
IDC Error ellipse: s-maj=42.6km s-min=22.4km az=42.0.
ISCJB Event type se. Error ellipse: s-maj=27.3km s-min=6.6km az=15.5.
NEIC Event type se. Error ellipse: s-maj=26.4km s-min=15.5km az=220.0.

IDC	**V**	**01 13 28 42.1–9.3**	**3.48S**	**69.54E**	**0**	**3.6,3.5b**		
								¶17202523

IDC Error ellipse: s-maj=299.7km s-min=28.3km az=66.0.

IDC	**V**	**09 23 53 34.3–1.1**	**8.12S**	**68.03E**	**0**	**4.0,3.8**		
								¶17203155

IDC Error ellipse: s-maj=38.4km s-min=26.1km az=20.0.

IDC	**V**	**09 23 56 11.7–14**	**7.71S**	**68.23E**	**0**	**3.6,3.6**		
								¶17203156

IDC Error ellipse: s-maj=342.6km s-min=63.5km az=179.0.

ISC	**V**	**10 04 35 31.6–2.5**	**8.0S–.40**	**69.1E–.30**	**10**	**3.8b,3.8s**	**11**	**3-149**
IDC	V	10 04 35 31.7–2.3	7.76S	68.89E	0	3.9,3.8		¶17203172

ISC Event type ke.
IDC Error ellipse: s-maj=66.5km s-min=39.4km az=152.0.

ISC	**V**	**10 06 37 05.0–.59**	**7.10S–.09**	**68.36E–.07**	**10**	**4.8b,4.3s**	**162**	**3-157**
IDC	V	10 06 36 57.7–.73	7.36S	68.14E	0	4.1s,4.1		¶16502537
ISCJB	V	10 06 37 03.3–.71	7.2S–.10	68.45E–.05	10	4.6b,4.2s		
MOS	V	10 06 37 05.8–1.5	6.74S	68.66E	10	5.0b,4.2s		
NEIC	V	10 06 37 05.3–.47	7.00S	68.33E	10	4.9b,4.2s		
GCMT	V	10 06 37 05.3–.20	7.86S	67.89E	12	5.0W,4.2s		

ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=19.4km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=16.6km s-min=5.8km az=16.3.
MOS Error ellipse: s-maj=14.9km s-min=7.6km az=97.9.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=15.0km az=224.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c32; s91,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.88±.10 $M_{\theta\theta}$-2.55±.08; $M_{\phi\phi}$3.43±.09; $M_{r\theta}$-0.93±.28; $M_{\theta\phi}$-1.09±.10; $M_{\phi r}$-0.59±.27; Best double couple: NP1:ϕ_s32.00000°,δ77.00000°,λ-21.00000°. NP2:ϕ_s127.00000°,δ69.00000°,λ-166.00000°. Principal axes: T 3.6620,Plg5.0000°,Azm81.0000°; N -0.4640,Plg65.0000°,Azm183.0000°; P -3.1960,Plg24.0000°,Azm348.0000° $M_0$3.42900×10^{16}

ISC	**V**	**10 08 00 27.4–.41**	**7.77S–.09**	**68.02E–.06**	**15**	**4.3b,4.0s**	**111**	**3-157**
ISCJB	V	10 08 00 25.7–.37	7.73S–.07	68.08E–.03	15	4.3b,4.0s		¶16577247
IDC	V	10 08 00 25.2–.53	7.70S	67.93E	0	4.2,4.1		
NEIC	V	10 08 00 26.6–.23	7.74S	67.92E	10	4.8b,4.1		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=4.5km az=2.1.
IDC Error ellipse: s-maj=16.6km s-min=14.3km az=7.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=7.0km az=161.0.

ISC	**V**	**10 10 50 39.6–1.1**	**7.0S–.20**	**68.1E–.20**	**12**	**4.2b**	**21**	**3-156**
IDC	V	10 10 50 36.7–.84	7.24S	67.65E	0	5.5s,5.5		¶16709410
ISCJB	V	10 10 50 37.7–.87	7.0S–.20	68.1E–.20	12	5.5s,4.1b		
NEIC	V	10 10 50 38.1–.69	7.26S	67.79E	10	4.4b,4.1b		

ISC Event type se.
IDC Error ellipse: s-maj=27.2km s-min=19.3km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=26.0km s-min=16.8km az=43.8.
NEIC Event type se. Error ellipse: s-maj=22.3km s-min=16.8km az=38.0.

IDC	**V**	**10 16 51 32.9–2.0**	**7.86S**	**68.32E**	**0**	**3.9,3.7**		
								¶16709494

IDC Error ellipse: s-maj=88.5km s-min=25.3km az=46.0.

ISC	**V**	**10 16 52 19.5–.51**	**8.2S–.10**	**68.22E–.07**	**15**	**4.3b**	**50**	**3-158**
ISCJB	V	10 16 52 17.7–.42	8.10S–.08	68.16E–.05	15	4.3b		¶17203311
IDC	V	10 16 52 17.4–.57	8.10S	68.13E	0	4.3,4.2		
NEIC	V	10 16 52 18.8–.31	8.12S	68.14E	10	4.6b,4.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=7.6km az=175.6.
IDC Error ellipse: s-maj=17.5km s-min=14.7km az=161.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=7.8km az=156.0.

ISC	**V**	**11 04 59 28.6–.75**	**8.0S–.20**	**68.2E–.20**	**15**	**4.2b**	**25**	**3-149**
IDC	V	11 04 59 26.0–.76	7.97S	68.20E	0	4.3,4.2b		¶16580974
ISCJB	V	11 04 59 26.6–.67	8.0S–.10	68.2E–.10	15	4.2b,3.6s		
NEIC	V	11 04 59 27.6–.41	7.98S	68.20E	10	4.3b,3.6s		

ISC Event type se.
IDC Error ellipse: s-maj=25.0km s-min=21.1km az=33.0.
ISCJB Event type se. Error ellipse: s-maj=18.8km s-min=17.7km az=155.3.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=13.2km az=141.0.

ISC	**V**	**11 07 27 59.4–1.6**	**8.0S–.30**	**68.1E–.30**	**15**	**4.1b**	**17**	**3-149**
ISCJB	V	11 07 27 57.1–1.6	8.0S–.20	68.0E–.30	15	4.1b		¶16709565
IDC	V	11 07 27 57.1–1.4	8.01S	68.07E	0	4.2,4.1b		
NEIC	V	11 07 27 58.6–.80	8.00S	68.06E	10	4.0b,4.1b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=45.9km s-min=18.9km az=137.0.
IDC Error ellipse: s-maj=45.0km s-min=21.6km az=48.0.
NEIC Event type se. Error ellipse: s-maj=26.4km s-min=13.1km az=48.0.

ISC	**V**	**11 10 52 14.3–.45**	**8.08S–.10**	**68.1E–.10**	**15**	**4.4b,4.0s**	**69**	**3-157**
IDC	V	11 10 52 11.7–.45	8.07S	68.13E	0	4.3,4.2		¶16633262
ISCJB	V	11 10 52 12.6–.39	8.02S–.07	68.13E–.08	15	4.3b,4.0s		
NEIC	V	11 10 52 13.4–.27	8.04S	68.11E	10	4.6b,4.0s		

ISC Event type se.
IDC Error ellipse: s-maj=14.5km s-min=13.5km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=10.3km az=23.5.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=8.6km az=121.0.

ISC	**V**	**12 11 00 10.6–2.4**	**7.3S–.30**	**68.6E–.30**	**10**	**3.9b,3.6s**	**8**	**3-148**
IDC	V	12 11 00 06.3–1.2	7.44S	67.99E	0	4.2,4.0b		¶17203475

ISC Event type ke.
IDC Error ellipse: s-maj=39.8km s-min=30.0km az=154.0.

IDC	**V**	**13 11 27 02.5–1.8**	**8.03S**	**68.17E**	**0**	**3.9,3.8**		

¶17203545
IDC Error ellipse: s-maj=53.3km s-min=31.9km az=44.0.
IDC V 16 03 03 18.0–1.8 8.07S 68.07E 0 3.8,3.6
¶17203724
IDC Error ellipse: s-maj=56.5km s-min=29.8km az=48.0.
ISC V 29 20 59 06.3–.37 4.91S–.05 68.61E–.05 13 4.7b,4.6s 214 3-155
ISCJB V 29 20 59 04.1–.31 5.02S–.05 68.53E–.04 13 4.6b,4.5s ¶16551541
IDC V 29 20 59 04.6–.54 4.89S 68.53E 0 5.0L,4.5
MOS V 29 20 59 04.7–1.5 4.81S 68.62E 10 5.1b,4.5s
NEIC V 29 20 59 05.8–.33 4.91S 68.61E 10 4.9b,4.5s
GCMT V 29 20 59 05.8–.10 4.93S 68.51E 12 5.3W,4.5s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.5km az=21.2.
IDC Error ellipse: s-maj=16.3km s-min=13.0km az=10.0.
MOS Error ellipse: s-maj=9.9km s-min=6.4km az=94.2.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.8km az=192.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s81,c116; s119,c232; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.28±.02 $M_{\theta\theta}$-1.06±.02; $M_{\phi\phi}$1.34±.02; $M_{r\theta}$-0.26±.05; $M_{\theta\phi}$-0.22±.02; $M_{\phi r}$0.04±.04; Best double couple: NP1:ϕ_s131.00000°,δ80.00000°,λ-167.00000°. NP2:ϕ_s39.00000°,δ77.00000°,λ-10.00000°. Principal axes: T 1.3620,Plg2.0000°,Azm265.0000°; N -0.2090,Plg73.0000°,Azm167.0000°; P -1.1550,Plg16.0000°,Azm355.0000° $M_0$1.25900×10^{17}
ISC VI 20 19 51 57.2–.55 7.93S–.10 68.12E–.06 15 4.4b,4.0s 58 3-157
ISCJB VI 20 19 51 55.0–.43 7.86S–.08 68.16E–.03 15 4.2b,4.0s ¶16731066
IDC VI 20 19 51 55.3–.77 7.76S 67.84E 0 4.1,4.0
NEIC VI 20 19 51 57.3–.61 7.72S 67.87E 10 4.8b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=4.1km az=176.6.
IDC Error ellipse: s-maj=22.1km s-min=19.2km az=180.0.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=15.1km az=151.0.
ISC VI 23 02 21 57.1–1.5 8.3S–.20 68.4E–.10 10 3.9b 12 3-158
IDC VI 23 02 21 53.4–1.6 8.66S 68.16E 0 4.0,3.8 ¶17206792
ISC Event type ke.
IDC Error ellipse: s-maj=38.9km s-min=25.9km az=38.0.
ISC VI 25 08 11 54.7–2.5 5.41S–.07 72.61E–.09 8–18 4.1b 20 2-76
IDC VI 25 08 11 54.2–1.8 5.41S 72.50E 0 4.1,4.0 ¶17206912
ISC Event type ke.
IDC Error ellipse: s-maj=59.1km s-min=24.0km az=51.0.
ISC VI 30 13 13 53.0–1.2 7.2S–.20 68.2E–.10 12 4.1b,3.8s 27 3-157
ISCJB VI 30 13 13 51.7–1.0 7.0S–.20 68.3E–.10 12 4.0b,3.9s ¶16731854
IDC VI 30 13 13 51.4–1.2 7.12S 68.06E 0 4.1,4.0b
NEIC VI 30 13 13 53.0–.76 7.08S 68.09E 10 4.4b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=29.6km s-min=9.4km az=32.8.
IDC Error ellipse: s-maj=38.5km s-min=18.5km az=43.0.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=12.6km az=222.0.
ISC VI 30 13 22 36.0–.79 7.3S–.20 68.0E–.10 12 4.1b 26 3-157
ISCJB VI 30 13 22 34.0–.90 7.2S–.20 68.0E–.10 12 4.2s,4.0b ¶16731855
IDC VI 30 13 22 34.0–1.0 7.27S 67.95E 0 4.2s,4.2
NEIC VI 30 13 22 35.1–.70 7.34S 68.00E 10 4.4b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.9km s-min=16.0km az=28.7.
IDC Error ellipse: s-maj=29.6km s-min=18.8km az=30.0.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=13.2km az=214.0.

(427) Mauritius-Reunion region.

IDC II 06 22 02 25.1–1.1 20.05S 66.77E 0 4.1,4.0b
¶17191834
IDC Error ellipse: s-maj=37.6km s-min=22.6km az=75.0.
IDC II 22 22 15 29.1–4.3 19.75S 65.95E 0 4.0,3.8b
¶17192729
IDC Error ellipse: s-maj=123.2km s-min=33.4km az=60.0.
ISC III 26 23 44 18.2–.78 20.0S–.20 66.8E–.10 16 4.0b 15 13-138
IDC III 26 23 44 15.4–.81 20.03S 66.67E 0 4.0,3.9 ¶16481091
ISCJB III 26 23 44 16.3–.65 20.0S–.10 66.8E–.10 16 3.9b,3.9
NEIC III 26 23 44 17.3–.57 20.00S 66.78E 10 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=26.3km s-min=20.0km az=38.0.
ISCJB Event type se. Error ellipse: s-maj=19.1km s-min=14.8km az=9.5.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=14.1km az=191.0.
ISC III 31 02 48 06.0–.71 20.0S–.10 66.5E–.10 16 4.2b,4.2s 23 10-138
ISCJB III 31 02 48 03.8–.52 20.0S–.10 66.5E–.10 16 4.2s,4.1b ¶16475893
IDC III 31 02 48 03.2–.65 20.00S 66.53E 0 4.2s,4.2
NEIC III 31 02 48 04.9–.39 20.03S 66.51E 10 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=13.7km az=44.1.
IDC Error ellipse: s-maj=19.6km s-min=17.9km az=157.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=10.8km az=132.0.
IDC IV 14 21 13 49.1–4.4 17.47S 65.98E 0 3.9,3.7
¶17201063
IDC Error ellipse: s-maj=129.2km s-min=32.4km az=62.0.
IDC V 21 01 14 46.9–1.4 18.14S 66.29E 0 4.2,4.2s
¶17204102
IDC Error ellipse: s-maj=45.8km s-min=26.4km az=29.0.

(428) Southwest Indian Ridge.

ISC I 01 11 45 08.8–.59 39.1S–.10 46.2E–.10 10 4.1b 21 20-154
ISCJB I 01 11 45 07.0–.51 39.1S–.10 46.2E–.10 10 4.1b ¶16002849
IDC I 01 11 45 07.1–.55 39.13S 46.27E 0 4.1,4.0
NEIC I 01 11 45 08.5–.41 39.12S 46.25E 10 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=11.4km az=26.9.
IDC Error ellipse: s-maj=21.1km s-min=16.5km az=29.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=10.9km az=206.0.
IDC I 09 20 02 46.9–2.9 28.90S 61.88E 0 3.9,3.7
¶17189790
IDC Error ellipse: s-maj=93.2km s-min=38.3km az=49.0.
IDC I 09 20 47 27.7–3.2 28.42S 62.77E 0 4.0,3.7
¶17189793
IDC Error ellipse: s-maj=98.3km s-min=35.8km az=53.0.
IDC I 22 00 28 15.3–1.4 28.33S 63.24E 0 3.8,3.7
¶17190705
IDC Error ellipse: s-maj=133.0km s-min=24.7km az=17.0.
IDC I 30 19 13 18.3–1.6 35.69S 53.48E 0 4.0,3.8
¶17191356
IDC Error ellipse: s-maj=131.7km s-min=28.6km az=28.0.
IDC II 08 22 57 44.5–1.6 28.81S 62.10E 0 3.8,3.7
¶17191917
IDC Error ellipse: s-maj=54.8km s-min=33.7km az=19.0.
ISC II 18 03 40 45.2–1.0 39.1S–.30 46.5E–.20 18 4.0b,3.2s 16 20-154
IDC II 18 03 40 42.3–.98 38.97S 46.61E 0 4.1b,4.1 ¶16305020
NEIC II 18 03 40 43.8–.69 39.08S 46.58E 10 4.2b,4.1
ISCJB II 18 03 40 44.4–1.1 39.0S–.30 46.7E–.30 18 4.0b,3.2s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC II 19 18 03 13.5–.70 30.1S–.10 60.8E–.10 10 4.1b,3.5s 13 17-147
ISCJB II 19 18 03 11.4–.59 30.1S–.10 60.8E–.10 10 4.2b,3.5s ¶16362994
IDC II 19 18 03 12.4–1.0 30.01S 60.97E 0 4.0,3.9
NEIC II 19 18 03 13.3–.53 30.07S 60.81E 10 4.9b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.0km s-min=12.6km az=32.9.
IDC Error ellipse: s-maj=31.4km s-min=25.0km az=56.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=12.0km az=213.0.
ISC III 05 16 49 56.7–1.2 38.6S–.40 46.5E–.20 10 3.8b 10 22-153
ISCJB III 05 16 49 54.8–1.1 38.7S–.40 46.5E–.30 10 3.7b,2.0s ¶17193296
IDC III 05 16 49 55.1–1.2 38.63S 46.53E 0 3.9,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=57.5km s-min=17.8km az=29.8.
IDC Error ellipse: s-maj=61.6km s-min=20.3km az=30.0.
IDC III 11 03 23 41.6–13 29.90S 61.41E 0 3.7,3.4
¶17193675
IDC Error ellipse: s-maj=834.0km s-min=56.7km az=33.0.
IDC IV 11 13 01 44.0–2.9 28.48S 62.67E 0 4.1,3.8
¶17200621
IDC Error ellipse: s-maj=91.9km s-min=43.8km az=49.0.
IDC IV 16 10 22 51.1–2.5 32.10S 57.51E 0 3.8,3.6b
¶17201208
IDC Error ellipse: s-maj=86.3km s-min=35.0km az=49.0.
ISC IV 25 23 35 45.8–2.0 30.8S–.50 59.3E–.30 10 4.0b 7 16-148
IDC IV 25 23 35 42.9–2.1 30.98S 59.08E 0 4.1,3.9 ¶17202092
ISCJB IV 25 23 35 43.4–2.1 30.9S–.50 59.3E–.40 10 3.9b,3.8s
ISC Event type ke.
ISCJB Event type ke.
ISC V 03 16 39 07.3–.59 35.4S–.10 53.9E–.20 17 4.3b,3.5s 30 14-165
IDC V 03 16 39 04.6–.67 35.58S 53.80E 0 4.3,4.2 ¶16577971
ISCJB V 03 16 39 05.8–.50 35.59S–.10 53.8E–.10 17 4.2b,3.5s
NEIC V 03 16 39 06.1–.35 35.59S 53.76E 10 4.7b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=25.8km s-min=16.1km az=31.0.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=11.9km az=140.2.
NEIC Event type se. Error ellipse: s-maj=14.0km s-min=10.0km az=49.0.
ISC V 04 03 01 47.6–1.0 31.7S–.20 58.9E–.20 10 3.9b 7 17-149
ISCJB V 04 03 01 45.6–.95 31.8S–.20 58.9E–.20 10 3.7b ¶17202726
IDC V 04 03 01 46.1–.97 31.70S 58.85E 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.4km s-min=18.1km az=40.5.
IDC Error ellipse: s-maj=39.7km s-min=24.4km az=35.0.
ISC V 07 11 11 24.9–.51 31.83S–.08 57.2E–.10 11 4.2b,3.6s 30 11-153
IDC V 07 11 11 22.9–.67 32.02S 57.32E 0 4.3,4.3L ¶16631222
ISCJB V 07 11 11 23.1–.43 31.94S–.08 57.3E–.10 11 4.4b,3.5s
NEIC V 07 11 11 24.6–.34 31.91S 57.34E 10 4.4b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=27.3km s-min=16.6km az=26.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=10.9km az=151.6.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=9.6km az=61.0.
IDC V 19 02 01 58.7–15 33.76S 54.95E 0 3.9,3.7
¶17203928
IDC Error ellipse: s-maj=785.7km s-min=61.8km az=40.0.
IDC V 23 21 25 24.8–2.2 34.64S 53.81E 0 4.0,3.8
¶17204322
IDC Error ellipse: s-maj=93.2km s-min=28.2km az=40.0.
IDC V 27 03 36 34.9–13 33.96S 54.74E 0 3.9,3.6
¶17204542
IDC Error ellipse: s-maj=693.2km s-min=62.8km az=40.0.
IDC V 27 05 51 42.9–7.4 28.73S 62.74E 0 3.9,3.6b
¶17204546
IDC Error ellipse: s-maj=415.4km s-min=52.5km az=34.0.
ISC V 28 02 19 46.7–.77 36.1S–.20 52.5E–.20 18 4.0b,3.6s 14 18-159
IDC V 28 02 19 43.8–.93 36.15S 52.52E 0 4.2,4.0b ¶16631877
ISCJB V 28 02 19 44.6–.74 36.1S–.20 52.5E–.10 18 4.0b,3.6s
NEIC V 28 02 19 45.3–.45 36.09S 52.46E 10 4.0b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=52.5km s-min=21.5km az=12.0.
ISCJB Event type se. Error ellipse: s-maj=28.7km s-min=16.7km az=10.3.
NEIC Event type se. Error ellipse: s-maj=20.6km s-min=12.9km az=187.0.
IDC V 30 00 37 10.4–3.2 37.24S 50.91E 0 3.8,3.7
¶17204733
IDC Error ellipse: s-maj=285.0km s-min=24.5km az=27.0.
IDC V 31 19 31 47.5–6.0 34.23S 55.12E 0 3.9,3.7
¶17204842
IDC Error ellipse: s-maj=238.2km s-min=45.3km az=49.0.
IDC VI 01 15 47 40.1–3.2 35.74S 47.60E 0 3.8,3.5
¶17204905
IDC Error ellipse: s-maj=573.4km s-min=58.5km az=10.0.
ISC VI 02 07 27 57.0–.62 30.1S–.10 60.4E–.10 10 4.2b,3.7s 18 17-147
IDC VI 02 07 27 55.3–.68 30.15S 60.67E 0 4.2,4.2L ¶16856084
NEIC VI 02 07 27 56.8–.39 30.14S 60.64E 10 4.5b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=17.9km az=49.0.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=9.3km az=40.0.
ISC VI 08 04 56 36.1–.85 36.4S–.20 52.5E–.20 10 4.2b 10 24-153
ISCJB VI 08 04 56 34.3–.77 36.4S–.20 52.6E–.20 10 4.0b ¶17205528
IDC VI 08 04 56 34.5–.79 36.37S 52.57E 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.4km s-min=18.9km az=30.3.
IDC Error ellipse: s-maj=42.0km s-min=21.1km az=32.0.

(429) Mid-Indian Ridge.

ISC I 01 05 48 54.7–1.6 20.4S–.30 67.8E–.20 15 4.0b,3.5s 7 14-81
ISCJB I 01 05 48 52.7–1.3 20.4S–.20 67.8E–.20 15 3.9b,3.5s ¶17189112
IDC I 01 05 48 52.2–1.4 20.42S 67.74E 0 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.6km s-min=25.4km az=31.4.
IDC Error ellipse: s-maj=40.7km s-min=26.8km az=30.0.
ISC I 06 04 00 56.5–.51 15.0S–.10 67.01E–.09 16 4.5b,3.7s 50 9-163
ISCJB I 06 04 00 54.8–.37 14.95S–.08 67.04E–.07 16 4.5b,3.7s ¶15977974
IDC I 06 04 00 54.2–.51 14.93S 67.01E 0 4.4,4.3
NEIC I 06 04 00 55.7–.29 14.93S 67.03E 10 4.7b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=8.7km az=162.2.
IDC Error ellipse: s-maj=19.1km s-min=12.7km az=175.0.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=7.0km az=166.0.
IDC I 08 07 38 31.4–3.0 14.82S 66.65E 0 3.4s,3.4
¶17189680
IDC Error ellipse: s-maj=114.3km s-min=43.5km az=59.0.
ISC I 09 05 39 02.2–.82 10.7S–.20 66.7E–.10 14 4.2b,3.5s 27 6-159
IDC I 09 05 38 59.9–.68 10.67S 66.69E 0 4.2,4.0b ¶16022595
ISCJB I 09 05 39 00.4–.66 10.6S–.10 66.7E–.10 14 4.0b,3.5s
NEIC I 09 05 39 01.6–.34 10.66S 66.68E 10 4.5b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=17.5km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=14.7km az=10.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.2km az=191.0.
ISC I 11 06 23 43.3–.78 14.8S–.20 66.9E–.20 16 4.2b,4.0s 21 9-152
IDC I 11 06 23 40.5–.71 14.84S 66.91E 0 4.2,4.1 ¶16151047
ISCJB I 11 06 23 41.6–.67 14.8S–.10 66.9E–.10 16 4.1b,3.9s
NEIC I 11 06 23 42.2–.48 14.81S 66.91E 10 4.5b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=17.8km az=30.0.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=16.4km az=36.3.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=12.8km az=222.0.
ISC I 13 09 30 30.4–.82 15.0S–.20 67.0E–.10 16 4.3b,3.7s 21 9-152
IDC I 13 09 30 27.8–.71 14.96S 67.00E 0 4.4,4.3b ¶16151229
ISCJB I 13 09 30 28.6–.61 14.9S–.10 67.1E–.10 16 4.3b,3.8s
NEIC I 13 09 30 29.4–.52 14.99S 67.04E 10 4.1b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=18.3km az=22.0.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=14.8km az=9.7.
NEIC Event type se. Error ellipse: s-maj=15.2km s-min=13.0km az=191.0.
ISC I 15 10 02 30.6–.84 15.1S–.20 66.9E–.10 16 4.3b,3.9s 30 9-163
IDC I 15 10 02 28.3–.88 15.05S 66.88E 0 4.3,4.1 ¶16032773
ISCJB I 15 10 02 29.1–.74 15.1S–.10 66.9E–.10 16 4.2b,3.9s
NEIC I 15 10 02 29.5–.50 15.15S 66.91E 10 4.5b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=29.3km s-min=20.6km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=16.4km az=176.1.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=13.9km az=168.0.
ISC I 18 17 00 02.0–1.6 26.3S–.30 72.0E–.20 10 3.7b 8 19-81
ISCJB I 18 17 00 00.3–1.3 26.3S–.30 72.1E–.20 10 3.6b,3.0s ¶17190492
IDC I 18 17 00 00.5–1.5 26.33S 72.01E 0 3.8,3.7b

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.0km s-min=22.6km az=27.7.
IDC Error ellipse: s-maj=49.6km s-min=25.1km az=30.0.
ISC I 18 19 00 24.8–.65 26.3S–.10 71.8E–.10 10 4.5b,3.8s 68 19-175
IDC I 18 19 00 22.9–.69 26.26S 71.76E 0 4.3,4.2b **¶16032788**
ISCJB I 18 19 00 23.2–.52 26.3S–.10 71.9E–.10 10 4.5b,3.8s
MOS I 18 19 00 23.2–.94 26.32S 71.89E 10 4.6b,3.8s
NEIC I 18 19 00 24.4–.42 26.31S 71.76E 10 4.8b,3.8s
BJI I 18 19 00 27.0 26.30S 71.90E 33 5.3b,5.0s
ISC Event type se.
IDC Error ellipse: s-maj=24.2km s-min=16.6km az=34.0.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=11.3km az=31.3.
MOS Error ellipse: s-maj=17.4km s-min=10.4km az=103.5.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=9.9km az=220.0.
ISC I 20 07 38 24.1–1.6 27.4S–.30 72.8E–.20 10 3.6b 8 20-81
ISCJB I 20 07 38 22.4–1.3 27.4S–.30 72.8E–.20 10 3.7b,3.2s **¶17190607**
IDC I 20 07 38 22.5–1.5 27.34S 72.76E 0 4.0,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.1km s-min=23.0km az=26.0.
IDC Error ellipse: s-maj=48.9km s-min=27.0km az=22.0.
IDC I 20 09 26 40.5–1.8 27.50S 72.63E 0 3.9,3.8
¶17190612
IDC Error ellipse: s-maj=55.9km s-min=36.2km az=15.0.
ISC I 24 15 52 54.0–.78 23.0S–.20 69.44E–.10 10 4.4s,4.0b 26 16-171
IDC I 24 15 52 53.4–.66 22.50S 69.78E 0 4.3s,4.3 **¶15990752**
NEIC I 24 15 52 54.8–.59 22.59S 69.68E 10 5.0b,4.3
GCMT I 24 15 52 54.8–.10 22.73S 69.17E 16–0 5.2W,4.3
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=16.8km az=6.0.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=14.5km az=174.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c92; s113,c193; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.82±.02; $M_{r\theta}$0.07±.04; $M_{\theta\phi}$0.35±.01; $M_{\phi r}$0.14±.04; Best double couple: NP1:ϕ_s58.00000°,δ87.00000°,λ8.00000°. NP2:ϕ_s327.00000°,δ82.00000°,λ177.00000°. Principal axes: T 0.9210,Plg8.0000°,Azm283.0000°; N -0.1420,Plg81.0000°,Azm78.0000°; P -0.7800,Plg4.0000°,Azm192.0000° $M_0$0.85000×10^{17}
ISC I 25 23 57 29.4–.81 18.89S–.07 67.27E–.06 12–4 5.0b,4.2s 489 12-167
BJI I 25 23 57 22.9 19.24S 66.80E 10 5.1b,4.9s **¶15965861**
ISCJB I 25 23 57 25.9–2.4 18.88S–.05 67.36E–.04 1–14 4.9b,4.2s
IDC I 25 23 57 27.2–.47 18.86S 67.36E 0 4.8,4.7
MOS I 25 23 57 27.5–.81 18.79S 67.41E 10 5.1b,4.7
NEIC I 25 23 57 29.1–.16 18.85S 67.35E 10 5.1b,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.6km az=162.9.
IDC Error ellipse: s-maj=16.2km s-min=12.8km az=20.0.
MOS Error ellipse: s-maj=9.8km s-min=5.5km az=105.1.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=4.5km az=168.0.
ISC I 28 03 51 11.6–1.6 26.1S–.30 71.1E–.20 11 3.9b 8 18-81
ISCJB I 28 03 51 09.8–1.3 26.1S–.30 71.1E–.20 11 3.8b,3.5s **¶17191171**
IDC I 28 03 51 09.8–1.5 26.04S 71.02E 0 4.0,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.1km s-min=24.4km az=30.9.
IDC Error ellipse: s-maj=45.8km s-min=27.0km az=32.0.
ISC I 28 20 07 42.9–1.0 40.8S–.20 81.2E–.20 10 4.4b,3.9s 28 27-156
ISCJB I 28 20 07 40.9–.89 40.7S–.20 81.2E–.20 10 4.2b,3.9s **¶16136067**
IDC I 28 20 07 42.1–1.2 40.64S 81.24E 0 4.2,4.0
NEIC I 28 20 07 42.3–.88 40.87S 81.08E 10 4.6b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.2km s-min=16.7km az=12.5.
IDC Error ellipse: s-maj=44.5km s-min=24.5km az=14.0.
NEIC Event type se. Error ellipse: s-maj=31.0km s-min=18.3km az=187.0.
ISC I 28 23 57 41.1–.95 41.05S–.07 80.85E–.08 7–5 4.8s,4.8b 98 11-168
ISCJB I 28 23 57 38.5–7.0 41.03S–.07 80.85E–.07 1–44 4.9b,4.7s **¶15979151**
IDC I 28 23 57 39.8–.67 40.97S 80.86E 0 4.5s,4.5
BJI I 28 23 57 40.7 41.00S 80.90E 10 5.2b,5.1s
NEIC I 28 23 57 41.6–.23 41.02S 80.83E 10 5.1b,5.1s
GCMT I 28 23 57 41.6–.20 41.11S 80.75E 12 5.2W,5.1s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=9.4km az=174.7.
IDC Error ellipse: s-maj=25.8km s-min=16.9km az=26.0.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=6.5km az=147.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s66,c90; s105,c175; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.05±.01 $M_{\theta\theta}$0.79±.01; $M_{\phi\phi}$-0.73±.01; $M_{r\theta}$0.09±.03; $M_{\theta\phi}$-0.12±.01; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s229.00000°,δ90.00000°,λ-172.00000°. NP2:ϕ_s139.00000°,δ82.00000°,λ0.00000°. Principal axes: T 0.8080,Plg6.0000°,Azm4.0000°; N -0.0550,Plg82.0000°,Azm230.0000°; P -0.7530,Plg6.0000°,Azm95.0000° $M_0$0.78100×10^{17}
ISC I 29 00 27 43.4–.60 41.2S–.10 80.8E–.20 10 4.4s,4.0b 27 27-172
ISCJB I 29 00 27 41.4–.49 41.13S–.09 80.9E–.20 10 4.3s,4.0b **¶16136080**
IDC I 29 00 27 41.9–.76 41.19S 80.76E 0 4.4s,4.4
NEIC I 29 00 27 43.3–.40 41.17S 80.75E 10 4.2b,4.4
GCMT I 29 00 27 43.3–.20 41.14S 80.73E 12 5.1W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=12.2km az=172.4.
IDC Error ellipse: s-maj=25.5km s-min=21.6km az=66.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=11.4km az=85.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c49; s93,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.16±.12 $M_{\theta\theta}$4.95±.10; $M_{\phi\phi}$-4.79±.10; $M_{r\theta}$0.53±.31; $M_{\theta\phi}$-0.76±.10; $M_{\phi r}$0.77±.32; Best double couple: NP1:ϕ_s230.00000°,δ87.00000°,λ-170.00000°. NP2:ϕ_s139.00000°,δ80.00000°,λ-3.00000°. Principal axes: T 5.0510,Plg5.0000°,Azm4.0000°; N -0.0670,Plg79.0000°,Azm246.0000°; P -4.9840,Plg10.0000°,Azm95.0000° $M_0$5.01700×10^{16}
IDC II 02 05 28 41.3–1.6 41.11S 78.18E 0 4.1,4.0
¶17191523
IDC Error ellipse: s-maj=76.0km s-min=26.3km az=20.0.
ISC II 12 02 17 08.3–1.2 10.6S–.20 66.3E–.10 14 4.0b 16 6-159
IDC II 12 02 17 06.0–1.1 10.58S 66.27E 0 3.9,3.8 **¶16196332**
ISCJB II 12 02 17 06.4–1.1 10.5S–.20 66.3E–.10 14 3.9b,3.8
NEIC II 12 02 17 07.5–.66 10.56S 66.29E 10 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=37.0km s-min=27.5km az=35.0.
ISCJB Event type se. Error ellipse: s-maj=25.1km s-min=18.3km az=15.2.
NEIC Event type se. Error ellipse: s-maj=17.9km s-min=13.8km az=185.0.
IDC II 13 16 52 33.9–1.6 25.43S 70.02E 0 3.9,3.8
¶17192163
IDC Error ellipse: s-maj=49.0km s-min=27.7km az=36.0.
ISC II 15 05 56 02.0–.68 16.1S–.20 67.6E–.10 10 4.3s,4.2b 21 10-157
ISCJB II 15 05 55 59.8–.52 16.0S–.10 67.62E–.10 10 4.4s,4.2b **¶16398240**
IDC II 15 05 56 00.3–.66 16.01S 67.58E 0 4.3s,4.3
NEIC II 15 05 56 01.9–.54 16.07S 67.56E 10 4.3b,4.3
GCMT II 15 05 56 01.9–.10 16.06S 67.21E 13–1 5.2W,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.2km s-min=13.2km az=10.1.
IDC Error ellipse: s-maj=24.8km s-min=17.1km az=16.0.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=14.4km az=193.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c94; s103,c180; Duration: 1ϑ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.15±.02 $M_{\theta\theta}$-0.70±.02; $M_{\phi\phi}$0.84±.02; $M_{r\theta}$-0.14±.04; $M_{\theta\phi}$0.32±.01; $M_{\phi r}$-0.11±.04; Best double couple: NP1:ϕ_s56.00000°,δ88.00000°,λ-12.00000°. NP2:ϕ_s146.00000°,δ78.00000°,λ-178.00000°. Principal axes: T 0.9290,Plg7.0000°,Azm102.0000°; N -0.1470,Plg78.0000°,Azm226.0000°; P -0.7820,Plg10.0000°,Azm11.0000° $M_0$0.85500×10^{17}
ISC II 16 10 43 25.4–.76 35.2S–.20 78.8E–.10 10 4.3b,4.2s 19 28-162
ISCJB II 16 10 43 23.6–.58 35.2S–.10 78.9E–.10 10 4.3b,4.3s **¶16362984**
IDC II 16 10 43 24.2–1.1 34.99S 78.86E 0 4.2s,4.2
NEIC II 16 10 43 25.3–.45 35.17S 78.83E 10 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.0km s-min=14.6km az=173.6.
IDC Error ellipse: s-maj=43.1km s-min=21.2km az=2.0.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=11.7km az=175.0.
ISC II 18 13 13 23.9–1.6 21.9S–.30 68.8E–.20 19 3.9b,3.6s 7 15-77
IDC II 18 13 13 20.8–1.4 21.85S 68.79E 0 4.0,3.8 **¶17192482**
ISCJB II 18 13 13 21.9–1.3 21.9S–.30 68.8E–.20 19 3.8b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC II 18 13 38 36.0–4.2 22.18S 68.37E 0 4.1,3.9b
¶17192483
IDC Error ellipse: s-maj=121.9km s-min=30.1km az=57.0.
ISC II 18 13 58 44.1–1.0 21.8S–.20 69.0E–.20 19 4.1b,3.3s 17 14-87
IDC II 18 13 58 41.0–.95 21.77S 69.01E 0 4.0,3.9b **¶16398485**
ISCJB II 18 13 58 42.1–.82 21.7S–.20 69.0E–.10 19 4.0b,3.3s
NEIC II 18 13 58 42.6–.54 21.74S 69.01E 10 4.6b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=28.5km s-min=21.5km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=22.0km s-min=19.1km az=177.1.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=12.8km az=178.0.
ISC II 18 16 01 13.8–1.6 14.3S–.30 65.8E–.30 13 3.8b 10 9-156
IDC II 18 16 01 12.0–1.5 14.26S 65.90E 0 3.8,3.6 **¶17192491**
ISC Event type ke.
IDC Error ellipse: s-maj=50.0km s-min=28.6km az=58.0.
IDC II 18 21 47 32.9–1.4 24.06S 69.39E 0 3.6,3.5
¶17192505
IDC Error ellipse: s-maj=43.8km s-min=26.9km az=28.0.
IDC II 26 12 28 02.6–5.8 31.56S 76.66E 0 3.7,3.6
¶17192905
IDC Error ellipse: s-maj=201.5km s-min=35.9km az=39.0.
ISC II 28 09 13 43.1–.77 20.13S–.07 67.31E–.06 5–4 4.9b,4.4s 278 13-168
BJI II 28 09 13 37.6 20.52S 66.84E 10 5.2b,5.0s **¶16161191**
IDC II 28 09 13 41.9–.48 20.08S 67.45E 0 4.6,4.5
MOS II 28 09 13 42.2–.97 20.06S 67.44E 10 5.0b,4.5
NEIC II 28 09 13 43.8–.25 20.11S 67.40E 10 5.1b,4.5
ISCJB II 28 09 13 43.3–.27 20.11S–.05 67.41E–.04 17 4.8b,4.3s
GCMT II 28 09 13 43.8–.20 20.09S 67.32E 18–1 5.1W,4.3s
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.8km az=169.0.
MOS Error ellipse: s-maj=10.7km s-min=6.9km az=90.2.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.2km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.6km az=156.7.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c59; s102,c160; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.97±.19 $M_{\theta\theta}$5.49±.18; $M_{\phi\phi}$-4.52±.16; $M_{r\theta}$0.98±.38; $M_{\theta\phi}$-3.58±.15; $M_{\phi r}$-0.81±.40; Best double couple: NP1:ϕ_s153.00000°,δ88.00000°,λ10.00000°. NP2:ϕ_s62.00000°,δ80.00000°,λ178.00000°. Principal axes: T 6.8170,Plg9.0000°,Azm18.0000°; N -1.0970,Plg80.0000°,Azm164.0000°; P -5.7160,Plg6.0000°,Azm287.0000° $M_0$6.26700×10^{16}
ISC III 02 14 16 29.6–1.6 22.7S–.40 69.4E–.30 10 3.8b 8 15-78
IDC III 02 14 16 28.0–1.6 22.73S 69.37E 0 3.9,3.8b **¶16318196**
ISCJB III 02 14 16 27.6–1.4 22.8S–.30 69.4E–.30 10 3.8b,3.3s
NEIC III 02 14 16 29.6–1.0 22.73S 69.38E 10 4.5b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=52.3km s-min=28.6km az=37.0.
ISCJB Event type se. Error ellipse: s-maj=45.8km s-min=24.3km az=36.5.
NEIC Event type se. Error ellipse: s-maj=36.0km s-min=19.3km az=215.0.
ISC III 02 14 44 44.7–1.6 22.7S–.30 69.3E–.20 10 3.8b 9 15-78
ISCJB III 02 14 44 42.7–1.3 22.7S–.20 69.3E–.20 10 3.8b **¶17193138**
IDC III 02 14 44 43.0–1.5 22.72S 69.30E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.0km s-min=24.2km az=34.4.
IDC Error ellipse: s-maj=46.0km s-min=26.1km az=39.0.
IDC III 02 14 45 29.5–1.4 22.69S 69.31E 0 3.8,3.7
¶17193141
IDC Error ellipse: s-maj=51.4km s-min=26.3km az=32.0.
ISC III 04 01 57 04.8–1.4 27.9S–.30 74.9E–.20 10 4.1b,3.7s 18 20-145
IDC III 04 01 57 03.2–1.3 27.89S 74.89E 0 4.1,4.0 **¶16339066**
ISCJB III 04 01 57 03.1–1.0 27.9S–.20 75.0E–.20 10 4.1b,3.7s
NEIC III 04 01 57 04.5–.78 27.95S 74.88E 10 4.5b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=41.7km s-min=24.8km az=24.0.
ISCJB Event type se. Error ellipse: s-maj=31.1km s-min=17.0km az=28.3.
NEIC Event type se. Error ellipse: s-maj=24.3km s-min=14.0km az=208.0.
IDC III 04 01 59 08.8–3.0 27.90S 74.86E 0 4.0,3.8
¶17193216
IDC Error ellipse: s-maj=90.1km s-min=32.7km az=46.0.
ISC III 09 01 04 16.1–.77 16.4S–.20 67.0E–.10 13 4.2b,3.4s 19 10-154
ISCJB III 09 01 04 14.2–.63 16.4S–.10 67.0E–.10 13 4.1b,3.4s **¶16400365**
IDC III 09 01 04 14.3–1.6 16.33S 66.99E 0 4.2,4.0b
NEIC III 09 01 04 15.7–.46 16.40S 66.99E 10 4.3b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=15.0km az=44.7.
IDC Error ellipse: s-maj=54.5km s-min=23.4km az=47.0.
NEIC Event type se. Error ellipse: s-maj=14.2km s-min=11.7km az=225.0.
ISC III 09 20 16 30.9–.71 9.1S–.20 67.45E–.10 13 4.4s,4.2b 27 4-158
ISCJB III 09 20 16 29.2–.51 9.1S–.10 67.47E–.06 13 4.4s,4.1b **¶16409226**
IDC III 09 20 16 29.5–.66 9.16S 67.40E 0 4.4s,4.4
NEIC III 09 20 16 31.0–.51 9.16S 67.41E 10 4.7b,4.4
GCMT III 09 20 16 31.0–.30 9.18S 67.17E 15 5.1W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=7.7km az=164.3.
IDC Error ellipse: s-maj=20.5km s-min=15.0km az=153.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=9.4km az=152.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s16,c16; s79,c106; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.38±.25 $M_{\theta\theta}$-4.47±.18; $M_{\phi\phi}$4.10±.17; $M_{r\theta}$-1.38±.71; $M_{\theta\phi}$1.22±.18; $M_{\phi r}$1.21±.67; Best double couple: NP1:ϕ_s143.00000°,δ89.00000°,λ-158.00000°. NP2:ϕ_s52.00000°,δ68.00000°,λ-1.00000°. Principal axes: T 4.5310,Plg14.0000°,Azm275.0000°; N 0.5550,Plg68.0000°,Azm145.0000°; P -5.0800,Plg16.0000°,Azm10.0000° $M_0$4.80600×10^{16}
IDC III 10 00 13 56.3–5.2 29.63S 75.37E 0 3.7,3.6
¶17193591
IDC Error ellipse: s-maj=176.5km s-min=32.3km az=41.0.
ISC III 10 15 22 51.0–.54 9.2S–.10 67.14E–.07 18 4.4b,3.9s 69 5-158
BJI III 10 15 22 48.5 9.10S 67.20E 5 5.0b,4.8s **¶16304929**
IDC III 10 15 22 48.0–.52 9.22S 67.24E 0 4.2,4.1b
ISCJB III 10 15 22 49.3–.36 9.22S–.07 67.19E–.06 18 4.4b,3.9s
NEIC III 10 15 22 49.8–.37 9.15S 67.21E 10 4.5b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=17.6km s-min=12.3km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=7.1km az=150.2.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=8.1km az=155.0.
ISC III 20 13 51 52.6–.43 40.25S–.10 78.24E–.09 10 4.6s,4.3b 46 29-174
ISCJB III 20 13 51 50.8–.35 40.28S–.08 78.26E–.08 10 4.5s,4.4b **¶16358661**
IDC III 20 13 51 51.2–.50 40.21S 78.24E 0 4.6s,4.6
NEIC III 20 13 51 52.7–.23 40.24S 78.24E 10 4.9b,4.6
GCMT III 20 13 51 52.7–.20 40.25S 78.22E 12 5.2W,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.3km s-min=9.2km az=170.5.
IDC Error ellipse: s-maj=17.9km s-min=13.0km az=3.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=6.2km az=179.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s49,c63; s89,c146; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.20±.18 $M_{\theta\theta}$-5.01±.19; $M_{\phi\phi}$5.21±.17; $M_{r\theta}$-0.30±.48; $M_{\theta\phi}$4.84±.15; $M_{\phi r}$0.46±.48; Best double couple: NP1:ϕ_s157.00000°,δ89.00000°,λ-176.00000°. NP2:ϕ_s67.00000°,δ86.00000°,λ-1.00000°. Principal axes: T 7.1520,Plg2.0000°,Azm292.0000°; N -0.1820,Plg85.0000°,Azm169.0000°; P -6.9680,Plg4.0000°,Azm22.0000° $M_0$7.06000×10^{16}
ISC III 21 00 44 18.0–.58 40.3S–.10 78.5E–.10 10 4.4s,4.0b 20 29-156
IDC III 21 00 44 16.4–.72 40.22S 78.52E 0 4.3s,4.3 **¶16479866**
ISCJB III 21 00 44 16.2–.51 40.3S–.10 78.5E–.10 10 4.4s,4.0b
NEIC III 21 00 44 17.9–.47 40.27S 78.53E 10 4.7b,4.0b

GCMT III 21 00 44 17.9–.20 40.19S 78.14E 14–1 5.0W,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=21.2km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=15.1km s-min=14.3km az=140.0.
NEIC Event type se. Error ellipse: s-maj=15.5km s-min=15.4km az=51.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c40; s88,c140; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.23±.12 $M_{\theta\theta}$-4.10±.14; $M_{\phi\phi}$3.87±.13; $M_{r\theta}$-0.88±.26; $M_{\theta\phi}$0.58±.10; $M_{\phi r}$0.14±.23; Best double couple: NP1:ϕ_s140.00000°,δ83.00000°,λ-171.00000°. NP2:ϕ_s49.00000°,δ81.00000°,λ-7.00000°. Principal axes: T 3.9130,Plg1.0000°,Azm274.0000°; N 0.4000,Plg79.0000°,Azm177.0000°; P -4.3130,Plg11.0000°,Azm4.0000° $M_0$4.11300×10^{16}

ISC III 25 07 18 31.2–.68 12.7S–.10 66.3E–.10 10 4.0b,3.6s 22 8-154
ISCJB III 25 07 18 29.2–.51 12.6S–.10 66.37E–.09 10 4.1b,3.6s **¶16480727**
IDC III 25 07 18 29.3–.73 12.64S 66.41E 0 3.9,3.8b
NEIC III 25 07 18 31.1–.39 12.67S 66.34E 10 4.6b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=11.7km az=154.0.
IDC Error ellipse: s-maj=27.1km s-min=19.7km az=166.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.0km az=154.0.
ISC III 29 23 45 25.9–1.9 10.5S–.20 66.5E–.20 14 3.9b,3.6s 10 6-96
IDC III 29 23 45 23.1–2.2 10.56S 66.38E 0 4.1,3.9 **¶17199127**
ISCJB III 29 23 45 23.8–1.4 10.5S–.20 66.5E–.10 14 3.9b,3.7s
ISC Event type ke.
ISCJB Event type ke.
IDC IV 02 17 30 57.6–2.2 40.31S 78.82E 0 3.9s,3.9
¶17199553
IDC Error ellipse: s-maj=112.7km s-min=38.2km az=9.0.
IDC IV 16 08 28 50.6–.90 21.41S 68.71E 0 4.0,3.9b
¶17201203
IDC Error ellipse: s-maj=28.0km s-min=24.3km az=26.0.
IDC IV 18 06 40 50.0–3.0 13.36S 65.38E 0 3.8,3.6
¶17201398
IDC Error ellipse: s-maj=115.1km s-min=38.6km az=54.0.
ISC IV 18 07 03 03.8–.67 35.4S–.10 78.6E–.20 14 4.2b,3.8s 19 28-152
IDC IV 18 07 03 01.7–.88 35.31S 78.62E 0 4.2,4.1b **¶16631135**
ISCJB IV 18 07 03 02.1–.55 35.5S–.10 78.6E–.20 14 4.3b,3.9s
NEIC IV 18 07 03 03.1–.45 35.41S 78.56E 10 4.7b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=32.4km s-min=21.5km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=14.7km az=143.3.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=12.8km az=52.0.
ISC IV 18 08 05 13.0–.79 35.3S–.20 78.4E–.10 14 4.3b,3.5s 16 28-152
IDC IV 18 08 05 10.7–1.3 35.27S 78.39E 0 4.1,4.0b **¶16631137**
ISCJB IV 18 08 05 11.4–.68 35.3S–.10 78.5E–.20 14 4.2b,3.5s
NEIC IV 18 08 05 12.4–.47 35.32S 78.41E 10 4.8b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=51.2km s-min=23.7km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=20.6km s-min=17.9km az=12.7.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=13.1km az=189.0.
ISC IV 19 05 19 10.1–.45 33.13S–.10 78.1E–.10 10 4.3b,3.9s 42 26-176
ISCJB IV 19 05 19 08.3–.39 33.16S–.08 78.09E–.09 10 4.3b,3.9s **¶16631142**
IDC IV 19 05 19 08.5–.50 33.14S 78.05E 0 4.2,4.2
NEIC IV 19 05 19 10.1–.25 33.17S 78.03E 10 4.7b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=10.5km az=150.3.
IDC Error ellipse: s-maj=18.3km s-min=14.3km az=0.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.5km az=163.0.
IDC IV 20 08 18 28.6–7.6 17.93S 68.08E 0 3.8,3.6
¶17201602
IDC Error ellipse: s-maj=444.7km s-min=35.3km az=37.0.
IDC IV 24 05 23 27.0–2.4 16.71S 66.31E 0 3.7,3.6b
¶17201928
IDC Error ellipse: s-maj=91.6km s-min=25.5km az=43.0.
IDC IV 24 20 00 18.6–1.0 8.94S 67.35E 0 3.8,3.7
GCMT IV 24 20 00 24.0–.30 9.11S 67.37E 16–1 4.9W,3.7 **¶17201980**
IDC Error ellipse: s-maj=28.6km s-min=23.5km az=39.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c29; s72,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.00±.13 $M_{\theta\theta}$-2.48±.11; $M_{\phi\phi}$2.47±.11; $M_{r\theta}$-0.74±.34; $M_{\theta\phi}$0.95±.10; $M_{\phi r}$0.11±.33; Best double couple: NP1:ϕ_s55.00000°,δ80.00000°,λ-11.00000°. NP2:ϕ_s146.00000°,δ79.00000°,λ-170.00000°. Principal axes: T 2.6470,Plg1.0000°,Azm101.0000°; N 0.2000,Plg75.0000°,Azm193.0000°; P -2.8540,Plg15.0000°,Azm10.0000° $M_0$2.75100×10^{16}

IDC IV 30 12 12 48.0–2.6 15.38S 66.64E 0 3.8,3.7b
¶17202455
IDC Error ellipse: s-maj=94.0km s-min=36.4km az=54.0.
IDC V 01 14 51 23.9–1.3 22.00S 68.90E 0 3.9,3.7
¶17202527
IDC Error ellipse: s-maj=48.6km s-min=21.8km az=27.0.
IDC V 01 16 24 05.0–15 22.09S 68.30E 0 3.8,3.6
¶17202534
IDC Error ellipse: s-maj=516.6km s-min=39.7km az=54.0.
IDC V 01 16 24 26.3–5.8 21.99S 68.71E 0 4.0,3.8
¶17202537
IDC Error ellipse: s-maj=155.8km s-min=39.8km az=62.0.
IDC V 01 17 22 23.5–16 24.10S 70.76E 0 3.4,3.2
¶17202540
IDC Error ellipse: s-maj=541.4km s-min=44.1km az=51.0.
ISC V 03 17 04 52.0–.58 35.4S–.10 78.7E–.10 14 4.1b,3.9s 25 28-152
ISCJB V 03 17 04 50.3–.43 35.42S–.09 78.8E–.10 14 4.3b,3.9s **¶16708718**
IDC V 03 17 04 50.0–.80 35.37S 78.72E 0 4.1,3.9
NEIC V 03 17 04 51.4–.42 35.34S 78.73E 10 5.1b,3.9
GCMT V 03 17 04 51.4–.40 35.41S 78.69E 29–2 5.0W,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=11.6km az=33.4.
IDC Error ellipse: s-maj=30.0km s-min=20.6km az=21.0.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=10.5km az=204.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c28; s58,c84; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.59±.24 $M_{\theta\theta}$-2.75±.19; $M_{\phi\phi}$3.34±.19; $M_{r\theta}$0.48±.33; $M_{\theta\phi}$-0.11±.16; $M_{\phi r}$-1.40±.29; Best double couple: NP1:ϕ_s134.00000°,δ87.00000°,λ158.00000°. NP2:ϕ_s226.00000°,δ68.00000°,λ4.00000°. Principal axes: T 3.7970,Plg18.0000°,Azm88.0000°; N -0.9390,Plg68.0000°,Azm306.0000°; P -2.8580,Plg13.0000°,Azm182.0000° $M_0$3.32800×10^{16}

IDC V 04 18 30 13.9–4.4 23.91S 69.06E 0 3.9,3.7
¶17202781
IDC Error ellipse: s-maj=125.3km s-min=33.7km az=55.0.
IDC V 07 12 02 20.6–5.4 24.53S 68.52E 0 4.2,4.0
¶17202984
IDC Error ellipse: s-maj=151.7km s-min=36.1km az=58.0.
ISC V 07 12 03 56.0–.33 23.94S–.06 69.41E–.06 10 4.9b,4.4s 353 16-172
IDC V 07 12 03 54.1–.42 23.89S 69.55E 0 4.6,4.5 **¶16498623**
MOS V 07 12 03 54.3–.76 23.88S 69.64E 10 5.0b,4.5
ISCJB V 07 12 03 54.3–.21 23.92S–.04 69.56E–.04 10 4.8b,4.3s
GCMT V 07 12 03 55.8–.20 23.68S 69.45E 13–0 5.0W,4.3s
BJI V 07 12 03 55.9 23.90S 69.50E 10 5.0b,4.9s
NEIC V 07 12 03 55.8–.17 23.90S 69.50E 10 5.0b,4.9s
ISC Event type se.
IDC Error ellipse: s-maj=14.1km s-min=12.0km az=28.0.
MOS Error ellipse: s-maj=11.1km s-min=5.7km az=104.8.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=5.8km az=5.6.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c36; s99,c157; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.54±.18 $M_{\theta\theta}$1.10±.10; $M_{\phi\phi}$2.44±.12; $M_{r\theta}$0.08±.27; $M_{\theta\phi}$-1.37±.07; $M_{\phi r}$1.49±.30; Best double couple: NP1:ϕ_s160.00000°,δ56.00000°,λ-77.00000°. NP2:ϕ_s317.00000°,δ36.00000°,λ-109.00000°. Principal axes: T 3.5130,Plg10.0000°,Azm241.0000°; N 0.4110,Plg11.0000°,Azm333.0000°; P -3.9240,Plg75.0000°,Azm109.0000° $M_0$3.71800×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.5km az=193.0.
IDC V 07 12 08 41.2–19 24.60S 68.50E 0 3.8,3.6
¶17202985
IDC Error ellipse: s-maj=618.6km s-min=44.2km az=52.0.
IDC V 07 12 18 45.9–7.1 24.79S 68.20E 0 4.2,4.0b
¶17202987
IDC Error ellipse: s-maj=236.8km s-min=38.6km az=51.0.
IDC V 09 01 46 55.8–3.1 24.00S 69.59E 0 3.9,3.9
¶17203094
IDC Error ellipse: s-maj=108.4km s-min=26.1km az=44.0.
ISC V 09 23 49 46.6–1.0 7.9S–.20 68.0E–.20 15 3.9b 9 40-149
ISCJB V 09 23 49 44.6–.89 7.8S–.20 68.1E–.20 15 3.8b **¶17203153**
IDC V 09 23 49 44.3–.94 7.88S 68.01E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.8km s-min=21.8km az=16.3.
IDC Error ellipse: s-maj=33.3km s-min=23.2km az=27.0.
IDC V 09 23 51 50.9–.79 8.00S 67.97E 0 3.9,3.8
¶17203154
IDC Error ellipse: s-maj=24.5km s-min=19.3km az=170.0.
IDC V 10 03 34 47.4–1.5 13.29S 66.52E 0 4.0,3.9
¶17203167
IDC Error ellipse: s-maj=58.9km s-min=24.2km az=47.0.
IDC V 10 06 25 39.5–1.6 7.01S 67.92E 0 3.8s,3.8
¶17203183
IDC Error ellipse: s-maj=59.2km s-min=22.9km az=48.0.
ISC V 10 06 29 25.0–.91 7.8S–.20 67.98E–.09 12 4.0b 16 3-157
ISCJB V 10 06 29 23.2–.78 7.7S–.20 68.01E–.07 12 3.9b,3.2s **¶17203184**
IDC V 10 06 29 23.4–.92 7.74S 67.89E 0 4.0,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=9.3km az=9.5.
IDC Error ellipse: s-maj=28.7km s-min=21.9km az=21.0.
IDC V 10 09 28 33.4–1.6 8.01S 67.91E 0 4.3,4.0
¶17203209
IDC Error ellipse: s-maj=55.0km s-min=30.1km az=49.0.
ISC V 10 09 35 15.9–.63 7.9S–.10 68.0E–.10 15 4.3b 23 3-149
ISCJB V 10 09 35 13.2–.60 7.9S–.10 68.05E–.06 15 4.2b **¶17203211**
NEIC V 10 09 35 15.2–.70 7.85S 67.94E 10 4.5b
IDC V 10 09 35 16.9–1.3 7.54S 67.32E 0 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.3km s-min=9.2km az=179.5.
NEIC Event type se. Error ellipse: s-maj=23.1km s-min=16.0km az=170.0.
IDC Error ellipse: s-maj=44.7km s-min=20.3km az=141.0.
IDC V 10 09 42 09.2–2.3 8.37S 67.90E 0 4.3,4.1
¶17203212
IDC Error ellipse: s-maj=73.6km s-min=33.1km az=34.0.
ISC V 10 22 26 54.8–.73 7.6S–.10 68.0E–.10 12 4.4b,3.8s 38 3-157
ISCJB V 10 22 26 52.6–.46 7.56S–.08 68.01E–.08 12 4.3b,3.8s **¶16709521**
IDC V 10 22 26 52.8–.71 7.60S 67.96E 0 4.1,4.0
NEIC V 10 22 26 54.3–.41 7.61S 67.95E 10 4.7b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=10.9km az=41.8.
IDC Error ellipse: s-maj=21.6km s-min=18.0km az=133.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=10.3km az=136.0.
ISC V 15 08 02 49.7–1.1 8.1S–.20 67.9E–.20 15 4.0b 12 4-157
ISCJB V 15 08 02 48.0–.86 8.1S–.20 68.0E–.10 15 3.9b,3.7s **¶17203676**
IDC V 15 08 02 47.4–.97 8.11S 67.93E 0 4.1,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.4km s-min=19.9km az=14.8.
IDC Error ellipse: s-maj=28.6km s-min=22.4km az=33.0.
ISC V 19 07 14 44.9–.75 10.3S–.20 66.4E–.10 14 4.2b,4.1s 34 6-152
ISCJB V 19 07 14 42.8–.59 10.3S–.10 66.38E–.10 14 4.2b,4.1s **¶16710269**
IDC V 19 07 14 42.7–.70 10.34S 66.39E 0 4.3,4.1
NEIC V 19 07 14 44.3–.40 10.35S 66.38E 10 4.6b,4.1
GCMT V 19 07 14 44.3–.20 10.51S 66.28E 12–1 5.1W,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=13.3km az=161.5.
IDC Error ellipse: s-maj=20.4km s-min=16.9km az=174.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=10.1km az=159.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c26; s83,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.15±.21 $M_{\theta\theta}$0.87±.13; $M_{\phi\phi}$2.28±.15; $M_{r\theta}$3.05±.54; $M_{\theta\phi}$-1.47±.10; $M_{\phi r}$3.25±.52; Best double couple: NP1:ϕ_s197.00000°,δ73.00000°,λ-65.00000°. NP2:ϕ_s319.00000°,δ29.00000°,λ-144.00000°. Principal axes: T 3.8010,Plg24.0000°,Azm268.0000°; N 2.4730,Plg24.0000°,Azm10.0000°; P -6.2740,Plg55.0000°,Azm138.0000° $M_0$5.03800×10^{16}

ISC V 23 13 44 20.4–.98 9.7S–.20 67.0E–.10 15 3.9b,3.2s 17 5-151
ISCJB V 23 13 44 18.3–.93 9.7S–.20 67.08E–.08 15 3.8b,3.2s **¶16593312**
IDC V 23 13 44 18.4–.99 9.70S 66.83E 0 3.9,3.8b
NEIC V 23 13 44 19.8–.63 9.70S 66.82E 10 4.0b,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.9km s-min=11.6km az=172.9.
IDC Error ellipse: s-maj=33.0km s-min=23.2km az=160.0.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=15.6km az=156.0.
ISC V 25 07 09 08.8–.54 8.0S–.10 67.96E–.10 15 4.5b,3.5s 49 3-157
IDC V 25 07 09 06.5–.55 8.00S 67.94E 0 4.5,4.4b **¶16710885**
ISCJB V 25 07 09 07.0–.40 7.95S–.08 67.96E–.07 15 4.5b,3.5s
NEIC V 25 07 09 07.8–.30 8.03S 67.94E 10 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=17.4km s-min=14.0km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=9.4km az=137.3.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.9km az=146.0.
ISC V 26 11 08 14.0–.93 13.2S–.20 66.6E–.20 10 4.3b,3.8s 38 8-162
ISCJB V 26 11 08 11.9–.90 13.2S–.20 66.6E–.10 10 4.2b,3.8s **¶16710968**
IDC V 26 11 08 12.3–.88 13.23S 66.58E 0 4.3,4.1b
NEIC V 26 11 08 14.2–.41 13.20S 66.60E 10 4.6b,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.8km s-min=15.6km az=30.2.
IDC Error ellipse: s-maj=32.4km s-min=18.7km az=31.0.
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=11.3km az=211.0.
ISC V 26 16 38 41.5–.36 8.15S–.07 67.98E–.05 15 4.7b,3.7s 133 3-158
IDC V 26 16 38 38.8–.57 8.20S 67.89E 0 4.3,4.2b **¶16710992**
ISCJB V 26 16 38 39.6–.27 8.16S–.05 67.91E–.04 15 4.6b,3.6s
NEIC V 26 16 38 40.2–.27 8.25S 67.85E 10 4.9b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=18.5km s-min=14.9km az=29.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.4km az=10.6.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=5.4km az=202.0.
ISC V 27 20 27 37.5–.29 12.74S–.06 66.32E–.05 10 5.0b,4.6s 500 8-161
BJI V 27 20 27 30.8 13.16S 65.71E 10 5.2b,5.0s **¶16551210**
ISCJB V 27 20 27 35.7–.21 12.74S–.04 66.31E–.03 10 4.8b,4.5s
IDC V 27 20 27 35.7–.42 12.72S 66.40E 0 4.4b,4.4
MOS V 27 20 27 36.0–1.1 12.61S 66.39E 10 5.2b,4.4
GCMT V 27 20 27 38.1–.20 12.93S 66.49E 12 5.0W,4.4
NEIC V 27 20 27 38.1–.74 12.72S 66.34E 15–4 5.1b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.3km az=2.8.
IDC Error ellipse: s-maj=13.6km s-min=11.0km az=157.0.
MOS Error ellipse: s-maj=9.2km s-min=5.4km az=98.1.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c34; s92,c141; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.27±.11 $M_{\theta\theta}$2.28±.10; $M_{\phi\phi}$0.98±.11; $M_{r\theta}$-1.16±.35; $M_{\theta\phi}$-1.97±.09; $M_{\phi r}$-2.16±.42; Best double couple: NP1:ϕ_s333.00000°,δ55.00000°,λ-53.00000°. NP2:ϕ_s100.00000°,δ49.00000°,λ-131.00000°. Principal axes: T 3.7260,Plg3.0000°,Azm38.0000°; N 0.9480,Plg30.0000°,Azm130.0000°; P -4.6760,Plg60.0000°,Azm302.0000° $M_0$4.20100×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.3km az=189.0.
ISC V 27 20 28 46.6–.34 12.84S–.07 66.36E–.06 10 4.9b 173 8-161
ISCJB V 27 20 28 45.1–.25 12.72S–.05 66.39E–.04 10 4.7b,4.6s **¶16577334**
IDC V 27 20 28 45.6–.46 12.70S 66.41E 0 4.3,4.3
NEIC V 27 20 28 46.9–.21 12.74S 66.35E 10 5.0b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.7km az=170.2.
IDC Error ellipse: s-maj=15.4km s-min=12.3km az=159.0.

NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.0km az=171.0.
IDC VI 07 21 36 03.1–7.6 16.38S 64.77E 0 3.9,3.7
¶17205516

IDC Error ellipse: s-maj=619.3km s-min=53.3km az=32.0.
IDC VI 10 17 00 32.9–6.5 15.14S 65.61E 0 4.0,3.7
¶17205721

IDC Error ellipse: s-maj=507.4km s-min=48.2km az=33.0.

ISC	**VI**	**16 00 05 05.8–.65**	**33.5S–.10**	**77.8E–.10**	**10**	**4.8b**	**30**	**26-150**
ISCJB	VI	16 00 05 04.1–.56	33.57S–.10	78.0E–.20	10	4.8b		**¶16730592**
IDC	VI	16 00 05 04.6–1.1	33.51S	77.85E	0	4.5,4.5		
NEIC	VI	16 00 05 05.7–.55	33.60S	77.85E	10	5.1b,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=14.0km az=7.3.
IDC Error ellipse: s-maj=41.8km s-min=28.6km az=67.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=16.1km az=111.0.
IDC VI 16 14 59 37.4–29 41.41S 80.30E 0 3.9,3.8
¶17206326

IDC Error ellipse: s-maj=704.9km s-min=53.3km az=46.0.
IDC VI 17 22 07 59.4–3.3 23.75S 69.84E 0 3.7,3.7
¶16730835

IDC Error ellipse: s-maj=117.4km s-min=33.4km az=42.0.

ISC	**VI**	**17 22 08 20.9–.56**	**23.95S–.05**	**69.44E–.05**	**15–3**	**5.0b,5.0s**	**377**	**12-172**
IDC	VI	17 22 08 17.8–.46	23.91S	69.60E	0	5.0s,5.0		**¶17206416**
BJI	VI	17 22 08 17.4	23.88S	69.02E	14	5.3b,5.3s		
ISCJB	VI	17 22 08 19.4–.21	23.93S–.04	69.59E–.04	17	5.0s,4.9b		
GCMT	VI	17 22 08 19.9–.10	23.77S	69.51E	12	5.4W,4.9b		
NEIC	VI	17 22 08 19.9–.22	23.88S	69.53E	10	5.1b,4.9b		
MOS	VI	17 22 08 19.4–1.1	23.91S	69.65E	17	5.3b,4.6s		

ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=13.1km az=36.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=5.3km az=1.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c137; s123,c252; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.43±.02 $M_{\theta\theta}$0.35±.01; $M_{\phi\phi}$1.08±.01; $M_{r\theta}$0.17±.04; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$0.53±.04; Best double couple: NP1:ϕ_s166.00000°,δ54.00000°,λ-73.00000°. NP2:ϕ_s318.00000°,δ39.00000°,λ-112.00000°. Principal axes: T 1.4460,Plg8.0000°,Azm244.0000°; N 0.1330,Plg14.0000°,Azm336.0000°; P -1.5820,Plg74.0000°,Azm124.0000° $M_0$1.51400×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.2km s-min=5.9km az=187.0.
MOS Error ellipse: s-maj=11.3km s-min=5.9km az=104.7.

ISC	**VI**	**17 22 28 54.0–1.1**	**23.9S–.30**	**69.7E–.10**	**10**	**4.0b**	**15**	**16-152**
ISCJB	VI	17 22 28 52.2–.96	23.9S–.20	69.7E–.10	10	3.9b,3.7s		**¶16714864**
IDC	VI	17 22 28 52.5–1.0	23.85S	69.70E	0	4.0,4.0b		
NEIC	VI	17 22 28 54.1–.58	23.84S	69.70E	10	4.2b,4.0b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=34.1km s-min=15.6km az=10.9.
IDC Error ellipse: s-maj=38.8km s-min=18.2km az=19.0.
NEIC Event type se. Error ellipse: s-maj=21.5km s-min=10.0km az=191.0.

ISC	**VI**	**24 04 33 37.9–.00**	**30.3S–.20**	**75.5E–.20**	**10**	**3.8b**	**9**	**23-84**
ISCJB	VI	24 04 33 36.1–.86	30.3S–.20	75.6E–.20	10	3.8b		**¶17206843**
IDC	VI	24 04 33 36.3–.92	30.30S	75.51E	0	4.0,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.5km s-min=21.1km az=138.7.
IDC Error ellipse: s-maj=32.7km s-min=23.2km az=51.0.

ISC	**VI**	**24 04 34 07.4–.00**	**30.3S–.20**	**75.5E–.20**	**10**	**3.8b**	**9**	**52-84**
ISCJB	VI	24 04 34 05.6–.88	30.3S–.20	75.6E–.20	10	3.8b		**¶17206846**
IDC	VI	24 04 34 05.8–.99	30.26S	75.48E	0	4.0,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=30.2km s-min=21.6km az=138.8.
IDC Error ellipse: s-maj=33.7km s-min=23.7km az=44.0.

ISC	**VI**	**24 05 12 10.1–.33**	**12.72S–.07**	**66.30E–.07**	**10**	**4.8b**	**620**	**8-161**
ISCJB	VI	24 05 12 08.4–.27	12.68S–.05	66.36E–.04	10	4.7b		**¶16652961**
BJI	VI	24 05 12 08.3	12.70S	66.30E	10	5.7b,5.6s		
MOS	VI	24 05 12 08.5–1.0	12.62S	66.40E	10	5.2b,5.6s		
IDC	VI	24 05 12 08.2–.42	12.73S	66.40E	0	4.4,4.4		
NEIC	VI	24 05 12 10.2–.17	12.72S	66.35E	10	5.1b,4.4		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.0km az=177.1.
MOS Error ellipse: s-maj=10.0km s-min=5.3km az=100.5.
IDC Error ellipse: s-maj=12.2km s-min=11.9km az=8.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.9km az=215.0.

ISC	**VI**	**24 05 18 50.3–.65**	**12.70S–.06**	**66.22E–.06**	**17–3**	**5.0b**	**752**	**8-161**
BJI	VI	24 05 18 43.4	12.96S	65.77E	10	5.5b,5.5s		**¶16652962**
ISCJB	VI	24 05 18 47.4–.22	12.65S–.04	66.24E–.03	10	4.9b,5.5s		
MOS	VI	24 05 18 47.2–.91	12.64S	66.32E	10	5.2b,5.5s		
IDC	VI	24 05 18 47.0–.42	12.73S	66.38E	0	4.7,4.7		
NEIC	VI	24 05 18 49.0–.15	12.70S	66.25E	10	5.3b,4.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.5km az=5.6.
MOS Error ellipse: s-maj=8.3km s-min=5.0km az=100.1.
IDC Error ellipse: s-maj=12.2km s-min=11.8km az=35.0.
NEIC Event type se. Error ellipse: s-maj=5.6km s-min=4.6km az=187.0.

ISC	**VI**	**24 05 28 48.5–.37**	**12.74S–.08**	**66.22E–.08**	**10**	**4.8b**	**231**	**8-161**
ISCJB	VI	24 05 28 46.8–.28	12.72S–.06	66.27E–.05	10	5.1s,4.7b		**¶16652963**
MOS	VI	24 05 28 46.8–1.0	12.68S	66.23E	10	5.2b,4.7b		
IDC	VI	24 05 28 46.8–.45	12.70S	66.32E	0	4.5,4.5		
NEIC	VI	24 05 28 48.5–.19	12.73S	66.26E	10	5.1b,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=7.3km az=163.4.
MOS Error ellipse: s-maj=11.5km s-min=7.8km az=84.4.
IDC Error ellipse: s-maj=13.8km s-min=13.1km az=124.0.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.7km az=130.0.

ISC	**VI**	**24 08 53 45.9–.42**	**10.73S–.10**	**66.65E–.08**	**14**	**4.5b,3.9s**	**72**	**6-159**
IDC	VI	24 08 53 43.6–.46	10.69S	66.66E	0	4.4,4.3		**¶16731359**
ISCJB	VI	24 08 53 44.1–.32	10.69S–.07	66.67E–.06	14	4.5b,4.0s		
NEIC	VI	24 08 53 45.4–.23	10.71S	66.66E	10	4.9b,4.0s		

ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=12.8km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.7km az=163.8.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.4km az=163.0.

ISC	**VI**	**30 13 37 26.4–.63**	**7.22S–.05**	**67.94E–.05**	**9–3**	**4.9b,4.8s**	**501**	**3-157**
BJI	VI	30 13 37 18.5	7.86S	67.51E	5	5.4b,5.3s		**¶16702459**
ISCJB	VI	30 13 37 24.9–.23	7.14S–.04	67.96E–.03	10	4.9b,4.7s		
IDC	VI	30 13 37 25.1–.43	7.10S	68.01E	0	4.8s,4.8		
MOS	VI	30 13 37 25.3–1.1	7.09S	67.96E	12	5.2b,4.9s		
NEIC	VI	30 13 37 26.2–.22	7.11S	68.01E	10	5.2b,4.9s		
GCMT	VI	30 13 37 26.2–.10	7.26S	67.92E	12	5.4W,4.9s		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.3km az=176.5.
IDC Error ellipse: s-maj=13.4km s-min=12.3km az=139.0.
MOS Error ellipse: s-maj=8.1km s-min=5.1km az=99.4.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.0km az=162.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s79,c123; s122,c244; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.42±.02 $M_{\theta\theta}$0.76±.02; $M_{\phi\phi}$0.65±.02; $M_{r\theta}$0.41±.04; $M_{\theta\phi}$-0.85±.01; $M_{\phi r}$0.19±.04; Best double couple: NP1:ϕ_s297.00000°,δ51.00000°,λ-111.00000°. NP2:ϕ_s149.00000°,δ44.00000°,λ-66.00000°. Principal axes: T 1.5710,Plg3.0000°,Azm42.0000°; N -0.0200,Plg16.0000°,Azm311.0000°; P -1.5530,Plg73.0000°,Azm144.0000° $M_0$1.56200×10^{17}

(430) South of Africa.

ISC	**I**	**07 19 28 34.4–.27**	**53.65S–.05**	**25.01E–.06**	**10**	**5.1b,4.8s**	**169**	**17-168**
MOS	I	07 19 28 33.4–1.4	53.57S	25.06E	10	5.0b,4.8s		**¶15909037**
IDC	I	07 19 28 33.2–.37	53.53S	25.30E	0	4.8,4.8		
ISCJB	I	07 19 28 33.0–.25	53.48S–.04	25.11E–.10	10	5.0b,4.8s		
BJI	I	07 19 28 34.7	53.50S	25.10E	10	5.6b,5.6b		
GCMT	I	07 19 28 34.5–.10	53.39S	25.50E	12	5.4W,5.6b		
NEIC	I	07 19 28 34.5–.21	53.52S	25.19E	10	5.2b,5.6b		

ISC Event type se.
MOS Error ellipse: s-maj=24.7km s-min=10.0km az=87.9.
IDC Error ellipse: s-maj=15.3km s-min=11.5km az=82.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.2km az=176.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s90,c147; s105,c192; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.00±.02 $M_{\theta\theta}$1.09±.02; $M_{\phi\phi}$-1.09±.02; $M_{r\theta}$0.31±.06; $M_{\theta\phi}$1.22±.02; $M_{\phi r}$-0.18±.06; Best double couple: NP1:ϕ_s291.00000°,δ88.00000°,λ-12.00000°. NP2:ϕ_s21.00000°,δ78.00000°,λ-178.00000°. Principal axes: T 1.6640,Plg7.0000°,Azm337.0000°; N 0.0230,Plg78.0000°,Azm103.0000°; P -1.6860,Plg10.0000°,Azm245.0000° $M_0$1.67500×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.4km az=81.0.

ISC	**I**	**09 11 40 27.4–.84**	**51.8S–.10**	**28.3E–.20**	**10**	**3.8b**	**9**	**20-81**
ISCJB	I	09 11 40 25.9–.70	51.73S–.09	28.2E–.30	10	3.8b		**¶17189756**
IDC	I	09 11 40 25.9–.85	51.75S	28.28E	0	3.8,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.7km s-min=12.7km az=170.7.
IDC Error ellipse: s-maj=34.9km s-min=16.1km az=82.0.
IDC I 24 05 54 53.3–1.1 53.24S 26.38E 0 4.0,3.8b
¶17190864

IDC Error ellipse: s-maj=86.2km s-min=27.7km az=49.0.

ISC	**I**	**25 05 39 37.1–.33**	**52.92S–.08**	**22.17E–.09**	**10**	**4.8b,4.4s**	**148**	**20-170**
IDC	I	25 05 39 35.0–.48	52.89S	22.17E	0	4.6,4.6b		**¶15964367**
ISCJB	I	25 05 39 35.6–.33	52.91S–.06	22.2E–.10	10	4.7b,4.4s		
MOS	I	25 05 39 36.4–1.6	52.78S	22.34E	10	4.8b,4.4s		
GCMT	I	25 05 39 37.5–.20	53.04S	22.24E	12	5.1W,4.4s		
NEIC	I	25 05 39 37.5–.22	52.91S	22.34E	10	5.0b,4.4s		

ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=16.8km az=69.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=8.0km az=14.9.
MOS Error ellipse: s-maj=27.0km s-min=13.3km az=90.9.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c47; s85,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.15±.12 $M_{\theta\theta}$4.71±.11; $M_{\phi\phi}$0.43±.11; $M_{r\theta}$0.76±.40; $M_{\theta\phi}$-1.09±.10; $M_{\phi r}$0.21±.39; Best double couple: NP1:ϕ_s279.00000°,δ49.00000°,λ-95.00000°. NP2:ϕ_s108.00000°,δ41.00000°,λ-84.00000°. Principal axes: T 5.0190,Plg4.0000°,Azm13.0000°; N 0.2040,Plg4.0000°,Azm283.0000°; P -5.2240,Plg84.0000°,Azm147.0000° $M_0$5.12200×10^{16}
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=9.4km az=108.0.

ISC	**I**	**26 07 31 12.3–1.3**	**52.9S–.30**	**22.5E–.30**	**10**	**3.8b**	**7**	**22-156**
IDC	I	26 07 31 12.1–.91	53.28S	22.72E	0	4.0s,4.0		**¶17191018**

ISC Event type ke.
IDC Error ellipse: s-maj=55.3km s-min=29.9km az=29.0.

ISC	**II**	**26 00 14 23.4–.99**	**48.4S–.20**	**31.6E–.20**	**12**	**4.1b,3.4s**	**16**	**18-157**
ISCJB	II	26 00 14 21.6–1.2	48.4S–.20	31.6E–.30	12	4.2b,3.4s		**¶16363031**
IDC	II	26 00 14 21.5–.98	48.07S	32.09E	0	4.0b,3.9		
NEIC	II	26 00 14 23.4–.84	48.34S	31.68E	10	4.2b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=35.1km s-min=16.5km az=42.1.
IDC Error ellipse: s-maj=53.2km s-min=23.1km az=45.0.
NEIC Event type se. Error ellipse: s-maj=28.2km s-min=18.9km az=47.0.

ISC	**IV**	**15 18 40 12.8–.73**	**48.1S–.10**	**31.7E–.30**	**12**	**4.0b,3.7s**	**19**	**18-99**
ISCJB	IV	15 18 40 11.1–.56	48.1S–.10	31.7E–.30	12	4.2b,3.7s		**¶16587529**
IDC	IV	15 18 40 11.6–1.3	48.01S	32.10E	0	3.9b,3.9		
NEIC	IV	15 18 40 12.4–.42	48.10S	31.86E	10	4.6b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=32.0km s-min=9.9km az=152.9.
IDC Error ellipse: s-maj=75.7km s-min=17.6km az=59.0.
NEIC Event type se. Error ellipse: s-maj=24.6km s-min=7.7km az=63.0.

ISC	**IV**	**26 08 08 27.3–.58**	**52.8S–.10**	**27.1E–.10**	**10**	**4.3b,3.5s**	**31**	**17-168**
IDC	IV	26 08 08 25.6–.57	52.88S	27.01E	0	4.3,4.2b		**¶16577896**
ISCJB	IV	26 08 08 26.4–.55	52.76S–.09	27.1E–.20	10	4.4b,3.4s		
NEIC	IV	26 08 08 27.5–.41	52.83S	27.03E	10	4.6b,3.4s		

ISC Event type se.
IDC Error ellipse: s-maj=25.1km s-min=17.7km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=12.6km az=175.3.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=11.8km az=72.0.

ISC	**VI**	**06 04 01 19.0–1.1**	**52.6S–.20**	**27.7E–.30**	**10**	**4.1b,3.2s**	**7**	**21-87**
ISCJB	VI	06 04 01 17.2–.91	52.5S–.20	27.6E–.40	10	3.9b,3.0s		**¶17205383**
IDC	VI	06 04 01 17.3–.95	52.55S	27.73E	0	4.1,3.9b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.6km s-min=21.1km az=44.9.
IDC Error ellipse: s-maj=44.1km s-min=23.1km az=49.0.

ISC	**VI**	**13 10 42 03.9–1.2**	**53.4S–.20**	**23.3E–.30**	**10**	**3.9b**	**6**	**22-150**
ISCJB	VI	13 10 42 01.8–1.2	53.3S–.20	23.1E–.50	10	3.8b,3.2s		**¶17206042**
IDC	VI	13 10 42 02.5–1.2	53.29S	23.51E	0	4.0,3.8b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.8km s-min=23.9km az=8.8.
IDC Error ellipse: s-maj=77.0km s-min=33.3km az=62.0.
IDC VI 18 00 07 18.8–17 49.92S 28.49E 0 3.9,3.7
¶17206424

IDC Error ellipse: s-maj=1404.0km s-min=37.4km az=46.0.

ISC	**VI**	**22 05 55 08.3–.80**	**48.7S–.20**	**30.5E–.30**	**10**	**4.0b,3.2s**	**13**	**18-152**
IDC	VI	22 05 55 07.6–.86	48.72S	31.06E	0	3.8,3.8		**¶17206729**

ISC Event type ke.
IDC Error ellipse: s-maj=53.0km s-min=17.3km az=63.0.

(431) Prince Edward Islands region.

ISC	**I**	**02 22 30 54.8–1.0**	**44.2S–.20**	**38.9E–.30**	**10**	**3.9b**	**7**	**19-147**
ISCJB	I	02 22 30 53.4–.87	44.2S–.20	38.8E–.40	10	3.9b		**¶17189262**
IDC	I	02 22 30 53.4–.90	44.15S	38.91E	0	4.1,4.0		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.9km s-min=16.3km az=145.0.
IDC Error ellipse: s-maj=46.2km s-min=21.3km az=53.0.

ISC	**I**	**02 22 42 02.4–.81**	**44.1S–.20**	**38.8E–.20**	**10**	**3.9b**	**10**	**25-147**
ISCJB	I	02 22 42 00.8–.70	44.1S–.10	38.7E–.30	10	3.8b		**¶17189263**
IDC	I	02 22 42 00.8–.71	44.10S	38.81E	0	4.1,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=28.4km s-min=17.2km az=153.9.
IDC Error ellipse: s-maj=29.1km s-min=19.6km az=59.0.

ISC	**I**	**02 22 52 34.2–.74**	**44.2S–.10**	**38.7E–.20**	**10**	**4.3b**	**14**	**19-149**
ISCJB	I	02 22 52 32.7–.64	44.2S–.10	38.6E–.20	10	4.1b		**¶17189264**
IDC	I	02 22 52 32.7–.64	44.18S	38.73E	0	4.4,4.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=14.5km az=153.8.
IDC Error ellipse: s-maj=23.2km s-min=17.5km az=64.0.
IDC I 15 15 15 10.8–1.3 44.32S 38.11E 0 4.3L,4.0
¶17190261

IDC Error ellipse: s-maj=116.9km s-min=30.3km az=43.0.

IDC	**III**	**14 11 06 59.0–2.8**	**44.64S**	**37.45E**	**0**	**3.8,3.8b**		
								¶17195142

IDC Error ellipse: s-maj=108.0km s-min=73.9km az=102.0.

ISC	**V**	**10 21 52 55.6–.49**	**46.99S–.09**	**33.4E–.20**	**10**	**4.4b,4.0s**	**45**	**17-158**
ISCJB	V	10 21 52 54.0–.38	46.97S–.07	33.4E–.20	10	4.3b,4.0s		**¶16709519**
IDC	V	10 21 52 54.1–.61	46.92S	33.57E	0	4.5,4.3		
NEIC	V	10 21 52 55.6–.32	46.95S	33.52E	10	4.8b,4.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.4km s-min=8.0km az=160.4.
IDC Error ellipse: s-maj=30.7km s-min=13.5km az=62.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=7.4km az=68.0.

ISC	**V**	**12 13 45 13.5–.85**	**44.5S–.10**	**37.8E–.20**	**10**	**4.0b,3.5s**	**11**	**19-156**
ISCJB	V	12 13 45 11.5–.72	44.5S–.10	37.7E–.20	10	4.1b,3.5s		**¶17203482**
IDC	V	12 13 45 11.4–.87	44.54S	37.90E	0	4.3b,4.3		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.8km s-min=13.6km az=154.5.
IDC Error ellipse: s-maj=31.4km s-min=21.5km az=61.0.
IDC VI 19 18 31 57.0–1.2 44.74S 36.47E 0 3.6,3.6b
¶17206539

IDC Error ellipse: s-maj=48.3km s-min=28.6km az=54.0.

(435) Southeast Indian Ridge.

IDC I 02 08 40 51.8–1.4 49.90S 110.69E 0 4.0,3.8
¶17189202

IDC Error ellipse: s-maj=53.8km s-min=29.2km az=93.0.

IDC I 30 13 22 22.8–2.8 46.70S 109.05E 0 3.5,3.4 ¶17191328
IDC Error ellipse: s-maj=194.9km s-min=54.3km az=129.0.
IDC II 04 06 54 13.9–2.8 46.01S 96.43E 0 4.2,4.0 ¶17191641
IDC Error ellipse: s-maj=80.5km s-min=45.3km az=26.0.
IDC II 04 07 30 27.0–48 47.08S 95.91E 0 4.1,4.0s ¶17191642
IDC Error ellipse: s-maj=1142.0km s-min=49.5km az=22.0.
ISC II 04 08 34 32.4–.79 46.2S–.20 96.0E–.20 12 4.7s,4.5b 13 18-154
ISCJB II 04 08 34 30.3–.75 46.1S–.10 95.9E–.20 12 4.5b,4.5s **¶16009353**
IDC II 04 08 34 30.1–.82 46.27S 95.98E 0 4.7s,4.6
NEIC II 04 08 34 31.5–1.0 46.06S 95.90E 10 5.0b,4.6
GCMT II 04 08 34 32.0–.20 46.46S 95.85E 12–1 5.1W,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.2km s-min=14.3km az=43.3.
IDC Error ellipse: s-maj=29.0km s-min=20.1km az=137.0.
NEIC Event type se. Error ellipse: s-maj=32.7km s-min=15.9km az=141.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c45; s96,c145; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.55±.15 $M_{\theta\theta}$-5.27±.15; $M_{\phi\phi}$5.82±.18; $M_{r\theta}$-0.58±.36; $M_{\theta\phi}$-2.21±.12; $M_{\phi r}$1.13±.40; Best double couple: NP1:ϕ_s304.00000°,δ86.00000°,λ170.00000°. NP2:ϕ_s35.00000°,δ80.00000°,λ4.00000°. Principal axes: T 6.4560,Plg10.0000°,Azm259.0000°; N -0.7360,Plg79.0000°,Azm101.0000°; P -5.7190,Plg4.0000°,Azm350.0000° M_o6.08800×10^{16}
IDC II 04 16 43 26.7–1.9 45.72S 96.72E 0 4.4s,4.4 ¶17191673
IDC Error ellipse: s-maj=66.8km s-min=25.7km az=5.0.
IDC II 04 16 45 44.1–4.1 47.02S 95.36E 0 4.5s,4.5 ¶17191674
IDC Error ellipse: s-maj=110.1km s-min=41.8km az=22.0.
ISC II 04 21 44 26.4–.75 41.5S–.20 85.2E–.10 10 4.5b,4.2s 16 24-146
ISCJB II 04 21 44 24.6–.66 41.5S–.10 85.2E–.20 10 4.4b,4.1s **¶16328708**
NEIC II 04 21 44 26.4–.37 41.52S 85.23E 10 4.5b,4.1s
IDC II 04 21 44 26.2–5.7 41.36S 85.41E 0 4.1,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.0km s-min=16.6km az=154.6.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=10.1km az=154.0.
IDC Error ellipse: s-maj=150.3km s-min=48.6km az=34.0.
IDC II 08 21 00 32.6–2.2 49.82S 110.79E 0 3.8,3.7 ¶17191908
IDC Error ellipse: s-maj=54.3km s-min=51.9km az=101.0.
IDC II 08 21 01 15.9–2.4 49.86S 111.08E 0 4.0,3.7 ¶17191911
IDC Error ellipse: s-maj=57.3km s-min=54.8km az=127.0.
IDC II 27 11 45 07.7–3.3 41.68S 84.89E 0 4.3,4.0b ¶17192949
IDC Error ellipse: s-maj=101.9km s-min=36.6km az=25.0.
ISC III 06 10 24 23.6–1.6 41.4S–.40 85.3E–.20 10 4.2s,4.1b 12 24-156
ISCJB III 06 10 24 22.6–1.4 41.2S–.30 85.4E–.20 10 4.2s,4.0b **¶17193343**
IDC III 06 10 24 22.1–1.7 41.37S 85.25E 0 4.2s,4.1
GCMT III 06 10 24 24.0–.20 41.32S 84.96E 22–1 5.0W,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.6km s-min=19.2km az=19.5.
IDC Error ellipse: s-maj=59.4km s-min=23.9km az=19.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c41; s95,c135; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.16±.15 $M_{\theta\theta}$3.88±.14; $M_{\phi\phi}$-4.04±.14; $M_{r\theta}$1.29±.24; $M_{\theta\phi}$-0.45±.11; $M_{\phi r}$-0.10±.20; Best double couple: NP1:ϕ_s140.00000°,δ78.00000°,λ13.00000°. NP2:ϕ_s47.00000°,δ78.00000°,λ168.00000°. Principal axes: T 4.3090,Plg17.0000°,Azm3.0000°; N -0.2440,Plg73.0000°,Azm182.0000°; P -4.0660,Plg0.0000°,Azm273.0000° M_o4.18700×10^{16}
IDC III 21 22 29 17.5–2.9 38.82S 85.76E 0 4.2,4.0 ¶17197767
IDC Error ellipse: s-maj=87.1km s-min=32.0km az=37.0.
IDC III 22 02 35 56.9–3.7 50.14S 113.40E 0 4.0,3.7 ¶17197899
IDC Error ellipse: s-maj=573.0km s-min=63.9km az=124.0.
ISC III 30 07 25 48.4–1.8 48.2S–.20 99.4E–.40 12 4.1b 9 17-156
IDC III 30 07 25 46.1–1.9 48.16S 99.22E 0 4.3,4.1 **¶17199172**
ISCJB III 30 07 25 47.7–4.2 48.2S–.30 100E–1.0 12 4.0b,4.0s
ISC Event type ke.
ISCJB Event type ke.
IDC III 30 09 01 57.0–2.6 48.05S 98.96E 0 4.2,4.0 ¶17199182
IDC Error ellipse: s-maj=85.3km s-min=31.6km az=111.0.
IDC IV 04 03 01 40.9–2.6 49.60S 106.46E 0 4.4,4.1 ¶17199730
IDC Error ellipse: s-maj=111.5km s-min=30.7km az=101.0.
IDC IV 14 15 24 48.7–3.5 50.26S 112.30E 0 3.7,3.6 ¶17201036
IDC Error ellipse: s-maj=138.2km s-min=28.7km az=101.0.
ISC IV 16 15 41 57.9–.81 41.5S–.20 85.1E–.20 10 4.0b,3.8s 10 24-146
ISCJB IV 16 15 41 56.3–.72 41.5S–.20 85.1E–.20 10 4.0b,3.8s **¶17201238**
IDC IV 16 15 41 56.5–.85 41.51S 85.10E 0 4.1,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.9km s-min=17.9km az=3.4.
IDC Error ellipse: s-maj=29.2km s-min=21.8km az=3.0.
IDC IV 19 17 19 16.2–5.7 48.87S 110.91E 0 4.0,3.7 ¶17201526
IDC Error ellipse: s-maj=246.2km s-min=57.0km az=112.0.
IDC IV 19 19 44 18.8–1.4 48.48S 107.78E 0 4.1,3.8 ¶17201535
IDC Error ellipse: s-maj=55.2km s-min=28.0km az=95.0.
IDC IV 26 15 45 38.3–11 42.17S 84.25E 0 4.0,3.8 ¶17202160
IDC Error ellipse: s-maj=278.9km s-min=46.9km az=46.0.
IDC VI 04 07 42 29.1–8.3 47.31S 99.90E 0 4.0,3.8 ¶17205169
IDC Error ellipse: s-maj=212.0km s-min=30.9km az=112.0.
IDC VI 11 21 50 51.0–3.5 50.40S 112.84E 0 3.8,3.6 ¶17205798
IDC Error ellipse: s-maj=145.0km s-min=29.4km az=101.0.
IDC VI 30 09 37 04.1–5.1 50.30S 113.48E 0 4.0,3.8 ¶17207246
IDC Error ellipse: s-maj=197.1km s-min=50.9km az=105.0.
IDC VI 30 16 40 28.9–7.0 50.17S 112.73E 0 4.1,3.8 ¶17207268
IDC Error ellipse: s-maj=293.1km s-min=54.8km az=107.0.

(437) South of Australia.

ISC IV 08 06 05 24.8–.33 42.47S–.07 120.28E–.09 10 4.9b,3.9s 328 9-157
IDC IV 08 06 05 22.8–.55 42.47S 120.29E 0 4.7,4.7 **¶16414249**
ISCJB IV 08 06 05 23.1–.29 42.52S–.05 120.29E–.08 10 4.8b,3.9s
BJI IV 08 06 05 23.0 42.50S 120.10E 6 5.3s,5.2b
NEIC IV 08 06 05 24.6–.23 42.46S 120.16E 10 4.8b,5.2b
GCMT IV 08 06 05 24.6–.40 42.35S 120.18E 20–1 5.0W,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=16.2km az=109.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.7km az=13.2.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.4km az=111.0.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c24; s67,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}3.85±.31 $M_{\theta\theta}$-0.73±.18; $M_{\phi\phi}$-3.12±.21; $M_{r\theta}$0.43±.39; $M_{\theta\phi}$-0.33±.11; $M_{\phi r}$-1.53±.39; Best double couple: NP1:ϕ_s179.00000°,δ57.00000°,λ82.00000°. NP2:ϕ_s14.00000°,δ34.00000°,λ102.00000°. Principal axes: T 4.2200,Plg77.0000°,Azm65.0000°; N -0.7640,Plg7.0000°,Azm184.0000°; P -3.4610,Plg11.0000°,Azm275.0000° M_o3.84100×10^{16}
IDC V 29 12 55 46.6–8.2 42.67S 125.22E 0 3.8,3.6 ¶17204701
IDC Error ellipse: s-maj=425.2km s-min=26.2km az=97.0.

IDC VI 23 22 19 24.0–6.5 65.78S 138.62E 0 4.3,4.0 ¶17206837
IDC Error ellipse: s-maj=655.7km s-min=38.0km az=74.0.

(740) Owen Fracture Zone region.

ISC I 19 13 43 59.7–1.2 14.3N–.20 53.3E–.20 10 3.7b,3.4s 8 10-87
ISCJB I 19 13 43 58.1–.99 14.2N–.20 53.3E–.20 10 3.6b,3.5s **¶17190562**
IDC I 19 13 43 58.1–1.2 14.23N 53.34E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.2km s-min=22.7km az=163.9.
IDC Error ellipse: s-maj=30.3km s-min=30.1km az=84.0.
ISC I 21 19 20 35.7–1.5 14.4N–.20 56.2E–.20 18 3.9b,3.1s 9 9-85
IDC I 21 19 20 32.4–1.6 14.30N 56.15E 0 3.9,3.7 **¶17190693**
ISCJB I 21 19 20 34.4–1.2 14.5N–.10 56.2E–.20 18 3.9b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC II 02 13 57 35.5–.90 14.11N–.09 56.66E–.06 21–9 4.5b,4.0s 179 9-128
BJI II 02 13 57 25.4 13.49N 56.03E 10 5.3b,4.8s **¶15998203**
IDC II 02 13 57 32.4–.83 14.09N 56.81E 0 4.2,4.1
ISCJB II 02 13 57 32.2–1.5 14.06N–.07 56.64E–.05 12–9 4.4b,3.9s
NEIC II 02 13 57 33.7–.49 14.03N 56.74E 10 4.7b,3.9s
MOS II 02 13 57 35.1–1.5 14.03N 56.67E 33 4.9b,3.9s
CSEM II 02 13 57 37.2–.27 14.09N 56.72E 30 4.7b,3.9s
ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=15.5km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=11.9km s-min=7.0km az=17.8.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=8.8km az=31.0.
MOS Error ellipse: s-maj=10.7km s-min=5.5km az=97.0.
CSEM Event type ke. Error ellipse: s-maj=12.3km s-min=8.6km az=27.0.
ISC II 05 21 47 04.9–.70 14.5N–.10 54.65E–.10 17 3.8b 20 12-95
IDC II 05 21 47 02.6–1.6 14.52N 54.67E 0 4.2L,3.8 **¶16328743**
ISCJB II 05 21 47 03.1–.60 14.46N–.09 54.61E–.08 17 3.9b,3.7s
NEIC II 05 21 47 03.9–.41 14.45N 54.67E 10 4.0b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=31.3km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=11.3km az=8.8.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.8km az=187.0.
ISC II 09 19 24 07.7–.49 11.85N–.04 57.80E–.04 15–2 4.8b,4.2s 575 9-130
BJI II 09 19 24 00.8 11.59N 57.41E 10 5.1b,4.8b **¶16017967**
IDC II 09 19 24 05.0–.41 11.75N 57.86E 0 4.7L,4.6
GCMT II 09 19 24 06.7–.20 11.77N 57.68E 15–1 5.0W,4.6
NEIC II 09 19 24 06.7–.21 11.81N 57.78E 10 5.0b,4.6
ISCJB II 09 19 24 08.0–1.3 11.81N–.03 57.73E–.02 31–9 4.8b,4.2s
MOS II 09 19 24 08.2–1.1 11.78N 57.73E 33 5.1b,4.1s
CSEM II 09 19 24 08.5–.12 11.83N 57.77E 20 4.9b,4.1s
DHMR II 09 19 24 17.2–2.7 13.39N 57.35E 2–999 5.4b,4.1s
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=9.4km az=15.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c80; s97,c168; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.38±.10 $M_{\theta\theta}$-3.08±.10; $M_{\phi\phi}$3.46±.11; $M_{r\theta}$0.87±.18; $M_{\theta\phi}$-2.82±.09; $M_{\phi r}$-1.19±.22; Best double couple: NP1:ϕ_s114.00000°,δ84.00000°,λ165.00000°. NP2:ϕ_s206.00000°,δ75.00000°,λ6.00000°. Principal axes: T 4.8920,Plg15.0000°,Azm69.0000°; N -0.7160,Plg73.0000°,Azm273.0000°; P -4.1740,Plg6.0000°,Azm161.0000° M_o4.53300×10^{16}
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.3km az=208.0.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=3.3km az=17.6.
MOS Error ellipse: s-maj=7.0km s-min=3.9km az=111.3.
CSEM Event type ke. Error ellipse: s-maj=6.1km s-min=4.5km az=27.0.
DHMR Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC III 05 03 09 46.3–.86 13.6N–.10 57.4E–.20 10 3.8b 11 10-83
ISCJB III 05 03 09 43.7–.94 13.6N–.10 57.3E–.20 10 3.6b,2.8s **¶17193262**
IDC III 05 03 09 43.8–1.0 13.47N 57.33E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.4km s-min=18.4km az=171.6.
IDC Error ellipse: s-maj=26.4km s-min=24.3km az=14.0.
IDC IV 12 19 32 27.3–2.6 14.60N 54.70E 0 3.7,3.6 ¶17200800
IDC Error ellipse: s-maj=70.5km s-min=37.3km az=68.0.
ISC IV 20 06 17 48.6–1.2 14.6N–.20 55.7E–.20 22 3.7b,3.1s 10 23-85
IDC IV 20 06 17 45.1–1.2 14.60N 55.69E 0 4.0,3.8b **¶17201595**
ISCJB IV 20 06 17 46.8–.92 14.6N–.10 55.6E–.10 22 3.7b,3.1s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 20 06 43 17.4–.80 14.8N–.10 55.6E–.10 10 4.0b,3.2s 13 9-127
ISCJB IV 20 06 43 15.7–.62 14.8N–.10 55.6E–.10 10 3.9b,3.2s **¶17201598**
IDC IV 20 06 43 15.8–.79 14.77N 55.65E 0 4.1,3.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.6km s-min=13.2km az=33.3.
IDC Error ellipse: s-maj=24.3km s-min=18.5km az=129.0.
IDC V 06 20 05 44.1–3.0 14.36N 57.00E 0 3.7,3.6 ¶17202949
IDC Error ellipse: s-maj=86.6km s-min=39.5km az=66.0.
ISC V 29 02 14 35.7–1.1 14.2N–.20 53.8E–.20 10 3.7b,2.9s 8 10-87
ISCJB V 29 02 14 34.3–.79 14.2N–.10 53.7E–.10 10 3.7b,2.9s **¶17204665**
IDC V 29 02 14 34.1–1.0 14.16N 53.79E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.2km s-min=17.6km az=38.6.
IDC Error ellipse: s-maj=27.1km s-min=24.6km az=148.0.

(741) Indian Ocean Triple Junction.

IDC II 13 05 39 13.1–3.0 27.79S 65.66E 0 4.0,3.9 ¶17192141
IDC Error ellipse: s-maj=94.6km s-min=33.2km az=50.0.
ISC III 27 06 00 19.0–1.4 27.6S–.30 65.8E–.20 10 3.9b 11 21-147
IDC III 27 06 00 17.5–1.3 27.53S 65.80E 0 4.0,4.0 **¶17198741**
ISCJB III 27 06 00 17.2–1.3 27.6S–.30 65.8E–.20 10 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC IV 13 07 51 38.6–1.6 27.2S–.40 67.2E–.20 10 3.7b 8 20-145
ISCJB IV 13 07 51 36.7–1.3 27.2S–.30 67.2E–.20 10 3.6b **¶17200879**
IDC IV 13 07 51 36.8–1.4 27.17S 67.16E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.4km s-min=23.1km az=24.6.
IDC Error ellipse: s-maj=54.8km s-min=23.9km az=25.0.
ISC V 03 20 00 55.6–1.1 26.8S–.20 67.4E–.10 10 4.2b 40 20-168
ISCJB V 03 20 00 54.1–.69 26.8S–.10 67.5E–.10 10 4.2b,3.4s **¶16708735**
IDC V 03 20 00 54.5–1.1 26.74S 67.47E 0 4.1,4.0b
NEIC V 03 20 00 55.4–.49 26.85S 67.42E 10 4.5b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.8km s-min=11.6km az=21.6.
IDC Error ellipse: s-maj=37.1km s-min=20.4km az=16.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=9.0km az=202.0.
IDC V 08 03 08 29.3–3.6 26.43S 66.11E 0 3.7,3.6 ¶17203021
IDC Error ellipse: s-maj=136.0km s-min=29.0km az=43.0.
IDC VI 29 23 42 24.5–4.3 27.41S 66.62E 0 3.9,3.7 ¶17207224
IDC Error ellipse: s-maj=155.2km s-min=36.2km az=47.0.

(742) Western Indian-Antarctic Ridge.

ISC I 01 18 37 45.4–.46 49.11S–.09 121.5E–.10 13 4.6b,4.0s 38 16-157
ISCJB I 01 18 37 43.4–.36 49.14S–.06 121.5E–.10 13 4.6b,4.0s **¶15902653**
IDC I 01 18 37 43.5–.59 49.10S 121.48E 0 4.6,4.6b
NEIC I 01 18 37 44.9–.42 49.16S 121.56E 10 4.9b,4.6b
GCMT I 01 18 37 44.9–.40 49.08S 121.67E 13–2 5.0W,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=7.9km az=13.3.
IDC Error ellipse: s-maj=25.3km s-min=14.2km az=109.0.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=10.1km az=108.0.

GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c21; s74,c104; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.02±.20 $M_{\theta\theta}$-1.91±.20; $M_{\phi\phi}$1.90±.22; $M_{r\theta}$-1.25±.54; $M_{\theta\phi}$-4.03±.16; $M_{\phi r}$0.01±.47; Best double couple: NP1:ϕ_s103.00000°,δ87.00000° ,λ-165.00000°. NP2:ϕ_s12.00000°,δ75.00000°,λ-3.00000°. Principal axes: T 4.5570,Plg9.0000°,Azm237.0000°; N 0.1480,Plg75.0000°,Azm113.0000° ; P -4.6980,Plg13.0000°,Azm329.0000° $M_0$4.62800×10^{16}

IDC I 06 09 32 04.0–4.3 49.45S 125.03E 0 4.1,3.8b ¶17189582

IDC Error ellipse: s-maj=244.8km s-min=27.2km az=92.0.

ISC I 17 21 48 31.6–1.0 49.3S–.20 127.3E–.30 10 4.0b 8 17-150

ISCJB I 17 21 48 29.7–1.2 49.3S–.10 127.5E–.50 10 4.0b **¶17190430**

IDC I 17 21 48 30.1–1.1 49.32S 127.33E 0 4.3,4.1

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=45.8km s-min=19.4km az=3.8.

IDC Error ellipse: s-maj=50.1km s-min=23.2km az=96.0.

IDC I 20 13 35 45.0–3.0 49.11S 125.17E 0 4.0,3.8 ¶17190623

IDC Error ellipse: s-maj=72.9km s-min=49.5km az=149.0.

ISC II 04 22 33 45.0–.54 48.72S–.09 126.3E–.10 13 4.4b 36 16-149

IDC II 04 22 33 42.8–.93 48.75S 126.31E 0 4.3,4.1 **¶16328711**

ISCJB II 04 22 33 43.9–.52 48.68S–.08 126.4E–.10 13 4.7b,3.8s

NEIC II 04 22 33 44.5–.31 48.71S 126.25E 10 4.5b,3.8s

ISC Event type se.

IDC Error ellipse: s-maj=44.0km s-min=23.8km az=93.0.

ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=11.9km az=23.9.

NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=98.0.

ISC II 04 22 37 53.4–.43 48.75S–.08 126.5E–.10 10 4.6b,3.9s 73 16-150

BJI II 04 22 37 47.2 49.74S 127.34E 10 5.2b,5.1s **¶16007301**

ISCJB II 04 22 37 51.9–.41 48.76S–.06 126.5E–.10 10 4.6b,4.0s

IDC II 04 22 37 51.6–.75 48.75S 126.39E 0 4.4,4.2

NEIC II 04 22 37 53.4–.27 48.72S 126.43E 10 4.5b,4.2

GCMT II 04 22 37 53.4–.40 48.91S 126.39E 21–1 5.0W,4.2

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=8.6km az=25.1.

IDC Error ellipse: s-maj=40.3km s-min=20.7km az=93.0.

NEIC Event type se. Error ellipse: s-maj=10.5km s-min=7.0km az=107.0.

GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c26; s55,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.25±.28 $M_{\theta\theta}$3.24±.19; $M_{\phi\phi}$-0.99±.19; $M_{r\theta}$-0.89±.28; $M_{\theta\phi}$1.60±.10; $M_{\phi r}$0.38±.34; Best double couple: NP1:ϕ_s96.00000°,δ58.00000° ,λ-56.00000°. NP2:ϕ_s224.00000°,δ46.00000°,λ-132.00000°. Principal axes: T 3.8630,Plg7.0000°,Azm162.0000°; N -1.1770,Plg29.0000°,Azm256.0000° ; P -2.6880,Plg60.0000°,Azm60.0000° $M_0$3.27600×10^{16}

IDC II 12 13 53 01.3–5.8 49.47S 119.83E 0 3.9,3.7 ¶17192118

IDC Error ellipse: s-maj=565.0km s-min=68.2km az=110.0.

IDC II 14 20 08 05.7–2.7 49.34S 121.40E 0 3.8,3.5 ¶17192263

IDC Error ellipse: s-maj=256.4km s-min=56.8km az=112.0.

ISC II 14 20 09 42.5–1.8 49.6S–.30 122.4E–.30 10 4.2b,3.7s 11 16-150

IDC II 14 20 09 40.9–1.8 49.61S 122.20E 0 4.3,4.2 **¶16339742**

NEIC II 14 20 09 42.5–1.1 49.60S 122.37E 10 4.4b,4.2

ISC Event type se.

IDC Error ellipse: s-maj=46.9km s-min=40.3km az=123.0.

NEIC Event type se. Error ellipse: s-maj=23.8km s-min=22.6km az=91.0.

IDC II 14 20 41 54.6–2.9 49.59S 122.26E 0 4.1,3.9b ¶17192264

IDC Error ellipse: s-maj=75.7km s-min=46.1km az=163.0.

IDC II 18 06 06 22.1–2.4 49.24S 127.76E 0 4.6,4.4 ¶17192462

IDC Error ellipse: s-maj=79.5km s-min=38.4km az=125.0.

IDC II 18 16 48 05.1–4.2 48.68S 126.59E 0 4.0,3.7b ¶17192493

IDC Error ellipse: s-maj=110.3km s-min=62.5km az=134.0.

IDC II 21 09 35 13.2–4.5 48.32S 126.85E 0 4.1,4.0

GCMT II 21 09 35 04.0–.50 48.80S 127.62E 18–1 4.8W,4.0 **¶17192626**

IDC Error ellipse: s-maj=112.4km s-min=62.7km az=137.0.

GCMT Error ellipse: s-maj=10.0km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c30; s61,c81; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.32±.23 $M_{\theta\theta}$1.83±.15; $M_{\phi\phi}$0.49±.15; $M_{r\theta}$0.48±.32; $M_{\theta\phi}$-0.31±.11; $M_{\phi r}$-0.24±.45; Best double couple: NP1:ϕ_s285.00000°,δ52.00000° ,λ-87.00000°. NP2:ϕ_s100.00000°,δ38.00000°,λ-94.00000°. Principal axes: T 1.9590,Plg7.0000°,Azm13.0000°; N 0.4300,Plg3.0000°,Azm103.0000° ; P -2.3890,Plg83.0000°,Azm214.0000° $M_0$2.17400×10^{16}

IDC II 23 00 32 09.8–1.1 50.51S 115.61E 0 4.6,4.4b ¶17192730

IDC Error ellipse: s-maj=102.3km s-min=22.8km az=121.0.

IDC II 25 10 21 39.7–3.7 49.48S 126.19E 0 3.8,3.7 ¶17192830

IDC Error ellipse: s-maj=73.6km s-min=59.9km az=60.0.

IDC II 25 10 29 08.3–2.8 50.17S 116.18E 0 4.1,4.0 ¶17192833

IDC Error ellipse: s-maj=62.5km s-min=50.3km az=167.0.

IDC II 26 03 37 10.4–3.9 49.44S 126.40E 0 3.9,3.9 ¶17192877

IDC Error ellipse: s-maj=69.9km s-min=64.1km az=39.0.

IDC III 08 15 09 51.2–4.1 49.52S 125.36E 0 4.2,4.1 ¶17193473

IDC Error ellipse: s-maj=72.6km s-min=61.0km az=43.0.

ISC III 12 21 29 38.2–2.1 49.7S–.40 120.5E–.20 10 4.0b 9 16-148

IDC III 12 21 29 37.5–2.3 49.58S 120.44E 0 4.2,4.0b **¶16449495**

NEIC III 12 21 29 38.1–1.1 49.70S 120.46E 10 4.2b,4.0b

ISC Event type se.

IDC Error ellipse: s-maj=61.2km s-min=47.9km az=171.0.

NEIC Event type se. Error ellipse: s-maj=32.9km s-min=18.5km az=166.0.

ISC III 12 21 30 48.1–1.4 50.2S–.30 120.0E–.30 10 4.1b 9 16-148

IDC III 12 21 30 47.0–3.1 50.08S 120.00E 0 4.2,4.0b **¶16449496**

NEIC III 12 21 30 48.0–.71 50.21S 120.05E 10 4.0b,4.0b

ISC Event type se.

IDC Error ellipse: s-maj=81.5km s-min=50.4km az=170.0.

NEIC Event type se. Error ellipse: s-maj=26.6km s-min=19.3km az=125.0.

IDC III 17 13 11 27.2–2.4 48.97S 125.09E 0 4.2,4.0 ¶17196721

IDC Error ellipse: s-maj=107.7km s-min=26.3km az=95.0.

ISC III 27 15 11 00.5–.79 49.7S–.10 125.6E–.30 10 4.1b,3.5s 13 17-150

IDC III 27 15 10 58.9–1.1 49.73S 125.62E 0 4.4,4.2 **¶16481096**

ISCJB III 27 15 10 58.8–.66 49.69S–.09 125.6E–.40 10 4.4b,3.5s

NEIC III 27 15 11 00.5–.48 49.69S 125.59E 10 4.6b,3.5s

ISC Event type se.

IDC Error ellipse: s-maj=50.6km s-min=22.9km az=92.0.

ISCJB Event type se. Error ellipse: s-maj=34.7km s-min=10.3km az=11.7.

NEIC Event type se. Error ellipse: s-maj=27.8km s-min=8.4km az=102.0.

ISC IV 01 14 12 58.0–.38 49.84S–.07 117.8E–.10 10 4.9b 75 15-158

ISCJB IV 01 14 12 56.3–.31 49.86S–.05 117.8E–.10 10 5.5s,4.7b **¶16403915**

IDC IV 01 14 12 57.0–.50 49.68S 117.60E 0 4.7,4.6

NEIC IV 01 14 12 58.0–.37 49.77S 117.84E 10 4.9b,4.6

BJI IV 01 14 12 57.4 50.11S 117.46E 24 5.5s,5.4b

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=7.3km az=10.6.

IDC Error ellipse: s-maj=20.6km s-min=16.4km az=121.0.

NEIC Event type se. Error ellipse: s-maj=16.0km s-min=10.0km az=112.0.

ISC IV 02 02 48 29.6–.69 49.6S–.10 126.0E–.20 10 4.1b,3.7s 18 17-150

GCMT IV 02 02 48 24.0–.40 49.63S 125.92E 26–1 4.9W,3.7s **¶17199486**

ISCJB IV 02 02 48 27.0–.59 49.60S–.08 126.1E–.30 10 4.0b,3.7s

IDC IV 02 02 48 29.3–1.1 49.49S 126.46E 0 4.4,4.2

NEIC IV 02 02 48 30.2–.66 49.55S 126.21E 10 4.4,4.2

ISC Event type se.

GCMT Error ellipse: s-maj=4.4km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c24; s58,c78; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.90±.20 $M_{\theta\theta}$1.49±.17; $M_{\phi\phi}$-0.59±.14; $M_{r\theta}$1.04±.27; $M_{\theta\phi}$2.25±.09; $M_{\phi r}$-1.37±.27; Best double couple: NP1:ϕ_s277.00000°,δ67.00000° ,λ-29.00000°. NP2:ϕ_s19.00000°,δ64.00000°,λ-155.00000°. Principal axes: T 2.9350,Plg2.0000°,Azm328.0000°; N 0.3360,Plg54.0000°,Azm62.0000° ; P -3.2700,Plg36.0000°,Azm236.0000° $M_0$3.10300×10^{16}

ISCJB Event type se. Error ellipse: s-maj=27.5km s-min=10.5km az=9.5.

IDC Error ellipse: s-maj=53.9km s-min=21.4km az=93.0.

NEIC Event type se. Error ellipse: s-maj=31.7km s-min=13.8km az=94.0.

IDC IV 07 21 46 16.9–53 48.90S 124.57E 0 3.8,3.7 ¶17200170

IDC Error ellipse: s-maj=883.4km s-min=116.0km az=9.0.

IDC IV 08 14 00 36.0–1.4 49.69S 117.50E 0 4.2,3.9 ¶17200249

IDC Error ellipse: s-maj=61.9km s-min=26.4km az=91.0.

IDC IV 10 04 04 04.4–4.0 47.41S 124.82E 0 4.2,4.1 ¶17200415

IDC Error ellipse: s-maj=142.2km s-min=27.2km az=141.0.

ISC IV 11 16 05 11.8–.51 49.26S–.08 127.5E–.10 10 4.9b,4.0s 40 15-149

IDC IV 11 16 05 09.7–.75 49.21S 127.19E 0 4.8,4.6b **¶16525109**

ISCJB IV 11 16 05 10.7–.44 49.22S–.06 127.6E–.10 10 4.9b,4.0s

NEIC IV 11 16 05 11.8–.45 49.21S 127.27E 10 4.9b,4.0s

ISC Event type se.

IDC Error ellipse: s-maj=39.4km s-min=18.0km az=104.0.

ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=9.2km az=8.6.

NEIC Event type se. Error ellipse: s-maj=15.1km s-min=9.4km az=111.0.

IDC IV 22 10 56 20.9–4.1 50.46S 115.86E 0 3.9,3.6 ¶17201806

IDC Error ellipse: s-maj=464.7km s-min=41.4km az=115.0.

ISC IV 27 18 56 40.8–.66 48.9S–.10 124.0E–.10 10 4.8b,4.0s 32 16-149

ISCJB IV 27 18 56 39.3–.58 48.87S–.09 124.1E–.10 10 4.7b,4.0s **¶16631211**

IDC IV 27 18 56 39.8–.89 48.83S 124.10E 0 4.5,4.3

NEIC IV 27 18 56 41.1–.57 48.83S 124.05E 10 4.8b,4.3

ISC Event type se.

ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=12.3km az=31.7.

IDC Error ellipse: s-maj=40.5km s-min=22.7km az=91.0.

NEIC Event type se. Error ellipse: s-maj=14.3km s-min=12.7km az=73.0.

IDC IV 28 00 27 33.2–3.5 48.57S 123.45E 0 4.2,4.0 ¶17202268

IDC Error ellipse: s-maj=111.6km s-min=63.0km az=112.0.

ISC IV 28 05 20 39.0–1.2 48.9S–.10 124.1E–.30 10 3.9b,3.8s 8 16-146

ISCJB IV 28 05 20 36.9–1.1 48.9S–.10 124.1E–.30 10 3.9b,3.7s **¶17202282**

IDC IV 28 05 20 37.7–1.3 48.83S 124.05E 0 4.4,4.2

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=30.6km s-min=17.3km az=170.5.

IDC Error ellipse: s-maj=47.2km s-min=23.8km az=89.0.

ISC V 04 04 50 06.2–.30 49.25S–.05 120.85E–.07 10 5.1b,4.5s 340 15-158

IDC V 04 04 50 04.8–.53 49.27S 121.10E 0 4.9,4.8 **¶16497609**

ISCJB V 04 04 50 04.4–.25 49.22S–.04 120.81E–.07 10 5.0b,4.6s

MOS V 04 04 50 05.0–1.8 49.19S 120.85E 10 5.3b,4.6s

GCMT V 04 04 50 06.1–.10 49.17S 120.83E 15 5.3W,4.6s

NEIC V 04 04 50 06.1–.22 49.24S 120.85E 10 5.1b,4.6s

BJI V 04 04 50 06.6 48.87S 120.29E 10 5.2b,5.1b

ISC Event type se.

IDC Error ellipse: s-maj=23.8km s-min=15.5km az=118.0.

ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.9km az=14.9.

MOS Error ellipse: s-maj=20.1km s-min=9.3km az=80.1.

GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s69,c107; s99,c181; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.11±.02 $M_{\theta\theta}$0.63±.01; $M_{\phi\phi}$-0.51±.02; $M_{r\theta}$0.40±.05; $M_{\theta\phi}$0.78±.01; $M_{\phi r}$-0.13±.05; Best double couple: NP1:ϕ_s287.00000°,δ87.00000° ,λ-24.00000°. NP2:ϕ_s19.00000°,δ66.00000°,λ-176.00000°. Principal axes: T 1.1010,Plg14.0000°,Azm335.0000°; N -0.0850,Plg66.0000°,Azm100.0000° ; P -1.0160,Plg19.0000°,Azm240.0000° $M_0$1.05900×10^{17}

NEIC Event type se. Error ellipse: s-maj=9.4km s-min=6.3km az=102.0.

ISC V 09 15 17 23.8–1.6 49.8S–.20 116.7E–.50 10 4.0b,3.6s 12 15-152

IDC V 09 15 17 22.4–1.8 49.74S 116.74E 0 4.0,3.8 **¶16577244**

NEIC V 09 15 17 23.4–.99 49.71S 116.56E 10 4.2b,3.8

ISC Event type se.

IDC Error ellipse: s-maj=78.9km s-min=26.8km az=103.0.

NEIC Event type se. Error ellipse: s-maj=45.0km s-min=10.3km az=109.0.

IDC V 28 12 41 23.5–3.2 48.40S 122.25E 0 3.7,3.6 ¶17204629

IDC Error ellipse: s-maj=83.4km s-min=46.3km az=166.0.

IDC V 29 05 27 49.2–3.5 48.76S 122.51E 0 3.8s,3.8 ¶17204673

IDC Error ellipse: s-maj=123.0km s-min=65.1km az=116.0.

ISC V 29 18 41 08.6–2.5 49.0S–.20 121.7E–.60 13 3.9b 6 15-147

IDC V 29 18 41 06.6–2.5 48.96S 121.65E 0 4.1,3.9 **¶17204716**

ISC Event type ke.

IDC Error ellipse: s-maj=105.0km s-min=25.2km az=99.0.

IDC VI 19 11 49 32.1–1.3 51.32S 138.95E 0 4.1,3.9 ¶17206525

IDC Error ellipse: s-maj=109.0km s-min=23.4km az=84.0.

SEISMIC REGION 34.
Eastern North America.

(439) Manitoba.

NEIC I 15 01 05 46.7 50.96N 101.75W 1 3.1 ¶601989344

NEIC Event type fe. Felt in the Esterhazy area, Saskatchewan. After OTT.

(444) Davis Strait.

ISC IV 05 19 42 36.4–.54 67.40N–.05 54.33W–.04 10 3.8b,3.0s 53 2-65

ISCJB IV 05 19 42 34.5–.42 67.38N–.04 54.39W–.08 10 3.6b,3.0s **¶16411035**

IDC IV 05 19 42 37.2–.76 67.21N 53.96W 0 3.9,3.8

NEIC IV 05 19 42 38.1 67.24N 54.07W 18 4.3,3.9b

OTT IV 05 19 42 38.1–.29 67.24N 54.07W 18 4.3,3.9b

ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.4km az=0.4.

IDC Error ellipse: s-maj=29.8km s-min=10.6km az=177.0.

NEIC Event type se. After OTT.

OTT Event type ke. Error ellipse: s-maj=4.4km s-min=1.7km az=-1.0. West coast of Greenland.

ISC V 10 23 24 19.0–.77 60.17N–.06 57.47W–.07 10 3.5b 29 6-38

IDC V 10 23 24 20.4–1.3 60.17N 57.01W 0 3.9,3.7 **¶16505616**

OTT V 10 23 24 21.5–.41 60.20N 57.20W 21 4.2L,4.1W

ISC Event type ke.

IDC Error ellipse: s-maj=30.4km s-min=15.4km az=140.0.

OTT Event type ke. Error ellipse: s-maj=2.2km s-min=3.9km az=-1.0. LAlbertaRADOR Sea Seismic Zone. 406km northeast from Nutak, Nl.

(447) Southern Quebec.

OTT III 29 16 04 35.5–.14 46.57N 76.96W 20 3.5

NEIC III 29 16 04 35.6 46.57N 76.96W 18 3.5 **¶16389120**

OTT Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. 67km northeast from Deep River, Ontario Western Quebec Seismic Zone.

NEIC Event type fe. Felt [II] at Ottawa, Ontario. Also felt at Cornwall and Toronto. Felt at Montreal, Quebec and at La Fargeville, New York. After OTT.

(448) Gaspe Peninsula.

OTT VI 16 07 20 40.2–.11 48.27N 69.65W 23 3.8

NEIC VI 16 07 20 40.2 48.27N 69.65W 23 3.8 **¶16621485**

OTT Event type fe. Error ellipse: s-maj=1.1km s-min=0.7km az=-1.0. 21km southwest from Les Escoumins, Qc. Felt Felt in Les Escoumins, Riviere-du-Loup, Sacre-Coeur, Tadoussac, Trois-Pistoles, Cacouna, Les Bergeronnes, Chicoutimi, La Malbaie, L''Anse-Saint-Jean, LaSalle, Longue-Rive, Mascouche, Notre-Dame- du-Portage, Saint-Alexandre-de-Kamouraska, Saint-Eloi, Saint-Simeon, St-Arsene, St-Clements, and St-Urbain, Qc.

NEIC Event type fe. Felt in the Chicoutimi-Longue-Rive-Saint-Urbain area. Also felt at Cacouna, LaSalle, Mascouche, Montreal, Notre-Dame-du-Portage, Riviere-du-Loup, Saint-Alexandre-de-Kamouraska, Saint-Arsene, Saint-Clements, Saint-Eloi and Trois-Pistoles. Felt at Jackman, Maine. After OTT.

(456) Montana.

ISC	**I**	**16 07 52 48.6–.62**	**46.80N–.03**	**112.20W–.03**	**0**		**99**	**0-26**
IDC	I	16 07 52 48.9–.73	46.76N	112.23W	0	3.6,3.4		**¶15954486**
ISCJB	I	16 07 52 49.3–.29	46.77N–.02	112.29W–.03	0	3.1b,3.4		
NEIC	I	16 07 52 50.0	46.79N	112.18W	15	3.7L,3.4		

ISC Event type fi.
IDC Error ellipse: s-maj=9.6km s-min=7.5km az=55.0.
ISCJB Event type fi. Error ellipse: s-maj=3.7km s-min=2.4km az=44.7.
NEIC Event type fi. Felt [III] at Helena and Canyon Creek and [II] at Clancy and East Helena. Also felt at Billings, Missoula, White Sulphur Springs and Wolf Creek. A sinkhole opened to an old mining stope on Mount Belmont and a haystack collapsed near Sieben. After BUT.

IDC	**VI**	**05 16 02 59.2–400**	**47.89N**	**107.47W**	**0**			**¶17205339**

IDC Error ellipse: s-maj=164.4km s-min=111.0km az=85.0.

(457) Eastern Idaho.

ISC	**I**	**26 05 10 09.6–.80**	**42.54N–.02**	**111.58W–.03**	**4–7**		**127**	**0-20**
IDC	I	26 05 10 08.8–.74	42.72N	111.72W	0	3.3,3.1		**¶15968995**
NEIC	I	26 05 10 11.1	42.42N	111.50W	6	3.7L,3.1		

ISC Event type fe.
IDC Error ellipse: s-maj=12.6km s-min=5.4km az=162.0.
NEIC Event type fe. Felt [III] at Grace and Preston; [II] at Bern, Lava Hot Springs, Montpelier and Soda Springs. Also felt at Bancroft, Downey, Paris, Pocatello and Thatcher. After SLC.

ISC	**IV**	**05 07 05 27.0–.37**	**44.66N–.02**	**112.03W–.02**	**10**	**4.5b,3.7s**	**280**	**1-123**
ISCJB	IV	05 07 05 25.7–.12	44.71N–.01	112.05W–.02	10	4.3b,3.8s		**¶16501961**
BJI	IV	05 07 05 25.0	44.60N	112.10W	12	4.9b,4.8b		
IDC	IV	05 07 05 25.5–.44	44.63N	112.07W	0	4.3,4.1		
NEIC	IV	05 07 05 26.0	44.61N	112.09W	12	4.5b,4.4L		
GCMT	IV	05 07 05 26.0–.50	44.69N	112.05W	12	4.6W,4.4L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=39.5.
IDC Error ellipse: s-maj=9.4km s-min=6.0km az=51.0.
NEIC Event type fe. Felt [III] at Lima and [II] at Bozeman, Butte, Dillon and Helena. Also felt at Anaconda, Corvallis, Hamilton, Missoula, Stevensville, Sula, Twin Bridges, West Yellowstone and Whitehall. Felt [II] at Ashton, Dubois, Rexburg and Saint Anthony, Idaho. Also felt at Challis, Idaho Falls, Ketchum, Monteview, North Fork, Spencer, Swan Valley and Victor. Felt at Brigham City, Utah. After BUT. Moment Tensor Solution. s69 Moment tensor: Scale 10^{15} Nm; M_{rr}-0.38 $M_{\theta\theta}$3.99 $M_{\phi\phi}$-3.61 $M_{r\theta}$0.70 $M_{\theta\phi}$2.03 $M_{\phi r}$-1.05 Best double couple: NP1: ϕ_s300.00000°,δ82.00000°,λ-15.00000°. NP2:ϕ_s32.00000°,δ75.00000°,λ-172.00000°. Principal axes: T 4.5400,Plg5.0000°,Azm347.0000°; N -0.0700,Plg73.0000°,Azm94.0000° ; P -4.4700,Plg16.0000°,Azm255.0000° M_o4.50000×10^{15}
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s129,c188;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.17±.04 $M_{\theta\theta}$0.78±.04; $M_{\phi\phi}$-0.61±.04; $M_{r\theta}$0.04±.13; $M_{\theta\phi}$0.31±.03; $M_{\phi r}$-0.37±.12; Best double couple: NP1:ϕ_s36.00000°,δ73.00000°,λ-158.00000°. NP2: ϕ_s299.00000°,δ69.00000°,λ-19.00000°. Principal axes: T 0.8510,Plg3.0000°,Azm167.0000° ; N 0.0210,Plg62.0000°,Azm72.0000°; P -0.8730,Plg28.0000°,Azm259.0000° M_o0.86200×10^{16}

(459) Yellowstone region.

ISC	**V**	**08 04 32 20.3–.68**	**44.80N–.02**	**110.99W–.02**	**10**		**52**	**0-18**
ISCJB	V	08 04 32 19.4–.34	44.84N–.02	110.92W–.03	10			**¶16577236**
NEIC	V	08 04 32 20.0	44.80N	110.99W	8	3.1L		
IDC	V	08 04 32 24.0–4.1	44.64N	110.97W	28–31	3.1L,2.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.7km az=163.5.
NEIC Event type se. After SLC.
IDC Error ellipse: s-maj=24.4km s-min=20.2km az=26.0.

(460) Wyoming.

ISC	**III**	**10 01 38 13.2–1.0**	**42.87N–.02**	**104.10W–.02**	**6–9**		**176**	**1-14**
NEIC	III	10 01 38 13.7–.31	42.86N	104.09W	5	2.9		**¶16359831**
IDC	III	10 01 38 14.0–1.3	43.14N	104.51W	0	3.3,3.2		

ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=4.4km s-min=3.9km az=78.0. Felt [II] at Lusk.
IDC Error ellipse: s-maj=21.3km s-min=8.4km az=152.0.

ISC	**IV**	**01 12 56 27.4–.94**	**43.02N–.02**	**110.29W–.02**	**0–7**	**3.8b**	**210**	**1-66**
IDC	IV	01 12 56 27.2–.54	43.01N	110.39W	0	4.0,3.8		**¶16403137**
NEIC	IV	01 12 56 28.4–.18	43.01N	110.27W	5	4.1b,3.9W		

ISC Event type fe.
IDC Error ellipse: s-maj=9.2km s-min=4.8km az=16.0.
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=87.0. Felt [III] at Bondurant, Dubois and Wilson; [II] at Daniel, Freedom, Jackson, Lander and Thayne. Also felt at Alta, Auburn, Cora, Etna, Green River, Kelly, Riverton and Rock Springs. Felt at Victor, Idaho. Moment Tensor Solution. s14 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.02 $M_{\theta\theta}$-0.21 $M_{\phi\phi}$5.23 $M_{r\theta}$1.17 $M_{\theta\phi}$0.66 $M_{\phi r}$-6.79 Best double couple: NP1:ϕ_s200.00000°,δ20.00000°,λ-65.00000°. NP2:ϕ_s354.00000°,δ72.00000°,λ-99.00000°. Principal axes: T 8.6100,Plg26.0000° ,Azm91.0000°; N 0.0000,Plg8.0000°,Azm356.0000°; P -8.6200,Plg62.0000°,Azm250.0000° M_o8.60000×10^{14}

(470) Southern Ontario.

OTT	**II**	**23 14 21 32.4–.13**	**42.16N**	**82.43W**	**5**	**3.0**		
NEIC	II	23 14 21 32.4	42.16N	82.43W	5	3.0		**¶16136369**

OTT Event type fe. Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0. 14km northeast from Leamington, On, Felt Felt in the Wheatley area Eastern Background Seismic Zone.
NEIC Event type fe. Felt [III] in the Chatham-Essex-Kingsville area. After OTT.

ISC	**III**	**16 17 36 54.8–.99**	**45.62N–.02**	**74.57W–.02**	**15–7**	**3.8b**	**171**	**0-148**
BJI	III	16 17 36 52.0	45.60N	74.50W	18	4.5		**¶16327748**
NEIC	III	16 17 36 56.0	45.58N	74.55W	13	4.3,4.0b		
OTT	III	16 17 36 56.0–.06	45.58N	74.55W	13–1	4.3,4.0b		
IDC	III	16 17 36 55.9–1.1	45.58N	74.66W	0	4.0,3.8		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Hawkesbury; [III] at Alexandria, Casselman, Rockland and Vankleek Hill; [II] at Cornwall, Kanata and Ottawa, Ontario. Felt [III] at Rigaud and Saint-Jerome; [II] at Lachute, Laurentides, Montreal and Saint-Sauveur-des-Monts, Quebec. Felt widely in the Ottawa and Saint Lawrence Valleys as far as Fort Coulonge, Kingston and Shawinigan. Felt [III] at Ogdensburg and [II] at Chateaugay, Massena, Plattsburgh and Potsdam, New York. Felt [II] at Milton, Vermont. Felt in much of northern New York and northern Vermont. Also felt at Hudson, New Hampshire and at West Newfield, Maine. After OTT. Moment Tensor Solution. s10 Moment tensor: Scale 10^{14}Nm; M_{rr}0.91 $M_{\theta\theta}$0.09 $M_{\phi\phi}$-1.00 $M_{r\theta}$-1.11 $M_{\theta\phi}$0.37 $M_{\phi r}$1.13 Best double couple: NP1:ϕ_s186.00000°,δ21.00000° ,λ134.00000°. NP2:ϕ_s320.00000°,δ75.00000°,λ75.00000°. Principal axes: T 1.8900,Plg57.0000°,Azm210.0000°; N 0.0000,Plg14.0000°,Azm324.0000° ; P -1.8900,Plg28.0000°,Azm62.0000° M_o1.90000×10^{14}
OTT Event type fe. 6km southeast from Hawkesbury, Ontario Felt Western Quebec Seismic Zone.
IDC Error ellipse: s-maj=26.4km s-min=9.8km az=126.0.

(471) Ohio.

OTT	**III**	**17 10 53 09.1–.13**	**41.14N**	**80.71W**	**5**	**2.7**		
NEIC	III	17 10 53 09.5	41.11N	80.68W	5	2.6		**¶16339111**

OTT Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. Ohio, U.S.A. 170km southeast from Blenheim, On Eastern Background Seismic Zone.
NEIC Event type fe. Felt at Youngstown. After OGSO.

ISC	**VI**	**05 15 35 20.2–1.3**	**41.00N–.02**	**82.04W–.02**	**1–10**		**100**	**1-7**
NEIC	VI	05 15 35 21.1	41.03N	82.08W	5	3.0		**¶16577396**
OTT	VI	05 15 35 22.1–.13	41.03N	82.08W	5	3.5		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Creston, Lodi, Spencer and West Salem; [II] at Barberton, Homerville, Medina, Polk and Seville. Felt in much of the Akron-Mansfield-Wellington-Wooster area. After OGSO.
OTT Event type fe. Ohio, U.S. Felt. 128km south from Leamington, On Felt in Ohio.

(472) New York.

ISC	**V**	**07 06 45 09.7–.95**	**44.73N–.03**	**73.89W–.02**	**18–6**		**76**	**0-4**
ISCJB	V	07 06 45 09.8–.42	44.74N–.03	73.88W–.03	22–4			**¶16501774**
NEIC	V	07 06 45 10.8	44.67N	73.84W	10	2.6L		
OTT	V	07 06 45 10.4–.07	44.76N	73.88W	18	2.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.1km az=168.8.
NEIC Event type fe. Felt at Ellenburg Depot and Lyon Mountain. After LDO.
OTT Event type ke. 43km southeast from Huntingdon, Qc Western Quebec Seismic Zone.

ISC	**VI**	**16 04 03 16.4–.93**	**44.49N–.02**	**74.33W–.02**	**15–6**		**79**	**0-5**
ISCJB	VI	16 04 03 15.8–.46	44.53N–.02	74.33W–.02	13–2			**¶16679623**
OTT	VI	16 04 03 16.4–.21	44.49N	74.31W	18	2.6		
NEIC	VI	16 04 03 17.0	44.52N	74.28W	8	2.6L		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.8km az=26.3.
OTT Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=-1.0. 67km south from Huntingdon, Qc Western Quebec Seismic Zone.
NEIC Event type fe. Felt at Lake Clear, Paul Smiths, Saranac Lake and Vermontville. After LDO.

(478) Utah.

ISC	**I**	**03 12 06 37.9–1.3**	**38.23N–.03**	**112.28W–.03**	**8–8**	**4.7b,4.0s**	**490**	**0-123**
BJI	I	03 12 06 33.1	37.95N	112.59W	5	5.4b,5.1s		**¶15902919**
ISCJB	I	03 12 06 36.3–.11	38.23N–.01	112.25W–.01	10	4.6b,4.0s		
NEIC	I	03 12 06 36.0	38.25N	112.34W	5	4.6L,4.6W		
MOS	I	03 12 06 36.3–1.3	38.20N	112.30W	10	4.8b,4.6W		
IDC	I	03 12 06 36.3–.38	38.20N	112.33W	0	4.5,4.5b		
GCMT	I	03 12 06 36.0–.50	38.21N	112.30W	12	4.8W,4.5b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.8km s-min=1.5km az=174.5.
NEIC Event type fe. Felt [IV] at Kingston and Panguitch; [III] at Beaver and Marysvale; [II] at Milford, Monroe and Parowan. Also felt at Antimony, Beryl, Cedar City, Draper, Greenville, Joseph, Kanab, Loa, Modena, Richfield, Saint George, Salt Lake City, Sandy, Saratoga Springs, Sevier, Tooele and Torrey. Felt [II] at Page, Arizona. Also felt at Flagstaff. Felt at Henderson, Las Vegas and Mesquite, Nevada. After SLC. Moment Tensor Solution. Best double couple: NP1:ϕ_s183.00000°,δ28.00000°,λ-133.00000°. NP2:ϕ_s50.00000° ,δ70.00000°,λ-70.00000°. Principal axes: T 1.0000,Plg22.0000°,Azm125.0000° ; N 0.0000,Plg19.0000°,Azm223.0000°; P -1.0000,Plg60.0000°,Azm349.0000°
MOS Error ellipse: s-maj=9.9km s-min=5.9km az=95.1.
IDC Error ellipse: s-maj=8.1km s-min=6.0km az=37.0.
GCMT Error ellipse: s-maj=4.4km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c22; s72,c100; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.81±.12 $M_{\theta\theta}$-0.57±.11; $M_{\phi\phi}$1.37±.10; $M_{r\theta}$-0.96±.42; $M_{\theta\phi}$0.99±.08; $M_{\phi r}$-0.54±.34; Best double couple: NP1:ϕ_s57.00000°,δ73.00000° ,λ-48.00000°. NP2:ϕ_s164.00000°,δ44.00000°,λ-156.00000°. Principal axes: T 2.0650,Plg18.0000°,Azm117.0000°; N -0.3830,Plg40.0000°,Azm222.0000° ; P -1.6850,Plg45.0000°,Azm8.0000° M_o1.87500×10^{16}

ISC	**I**	**03 20 23 45.7–.92**	**38.33N–.04**	**112.49W–.03**	**7**		**36**	**0-24**
ISCJB	I	03 20 23 44.9–.44	38.30N–.04	112.43W–.05	7	3.0b		**¶16031096**
IDC	I	03 20 23 44.4–1.4	38.27N	112.49W	0	3.2,3.2b		
NEIC	I	03 20 23 45.0	38.24N	112.34W	2	3.2L,3.2b		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=5.6km az=27.2.
IDC Error ellipse: s-maj=16.5km s-min=9.9km az=163.0.
NEIC Event type fe. Felt at Beaver, Monroe, Nephi and Teasdale. After SLC.

ISC	**I**	**05 18 23 08.3–.85**	**38.97N–.04**	**111.25W–.03**	**10**		**22**	**0-24**
NEIC	I	05 18 23 07.0	39.00N	111.38W	8	2.4L		**¶16395018**
ISCJB	I	05 18 23 08.4–.67	39.02N–.06	111.48W–.07	10	2.6b		
IDC	I	05 18 23 08.7–2.5	38.92N	110.68W	0	3.1,3.0		

ISC Event type se.
NEIC Event type se. After SLC.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.9km az=35.0.
IDC Error ellipse: s-maj=29.2km s-min=10.1km az=139.0.

ISC	**I**	**06 03 18 09.9–.68**	**38.32N–.02**	**112.41W–.02**	**10**		**81**	**0-24**
NEIC	I	06 03 18 09.0	38.26N	112.33W	3	3.1L		**¶15928044**
IDC	I	06 03 18 09.4–1.9	38.31N	112.29W	0	3.1,3.1L		

ISC Event type se.
NEIC Event type se. After SLC.
IDC Error ellipse: s-maj=19.2km s-min=9.4km az=156.0.

ISC	**I**	**06 06 14 15.9–1.4**	**38.27N–.03**	**112.34W–.04**	**3–12**		**24**	**1-24**
IDC	I	06 06 14 12.1–1.1	38.38N	111.08W	0	3.4L,3.1		**¶16007674**
NEIC	I	06 06 14 16.0	38.25N	112.33W	5	2.9L,3.1		

ISC Event type se.
IDC Error ellipse: s-maj=13.9km s-min=11.1km az=143.0.
NEIC Event type se. After SLC.

ISC	**I**	**06 22 31 03.6–.87**	**38.26N–.02**	**112.32W–.02**	**4–8**		**105**	**0-24**
NEIC	I	06 22 31 04.0	38.26N	112.33W	3	3.5L		**¶15927182**
IDC	I	06 22 31 04.7–.78	38.45N	112.20W	0	3.4,3.3		

ISC Event type se.
NEIC Event type se. After SLC.
IDC Error ellipse: s-maj=11.6km s-min=8.0km az=49.0.

ISC	**I**	**07 22 51 09.0–1.2**	**38.34N–.02**	**112.42W–.03**	**0–11**		**57**	**0-24**
NEIC	I	07 22 51 07.0	38.26N	112.33W	1	3.3L		**¶16017952**
IDC	I	07 22 51 10.9–2.3	38.57N	112.46W	0	3.2,3.2b		

ISC Event type fe.
NEIC Event type fe. Felt at Beaver. After SLC.
IDC Error ellipse: s-maj=27.0km s-min=9.2km az=150.0.

ISC	**I**	**12 08 46 30.1–1.6**	**38.26N–.04**	**112.33W–.04**	**4–12**		**50**	**0-33**
NEIC	I	12 08 46 29.0	38.24N	112.34W	5	3.7W,3.6L		**¶15928082**
IDC	I	12 08 46 29.6–.69	38.34N	112.25W	0	3.6,3.6b		

ISC Event type fe.
NEIC Event type fe. Felt at Cedar City and Marysvale. After SLC. Moment Tensor Solution. s14 Moment tensor: Scale 10^{14}Nm; M_{rr}-3.87 $M_{\theta\theta}$0.98 $M_{\phi\phi}$2.89 $M_{r\theta}$-2.10 $M_{\theta\phi}$1.72 $M_{\phi r}$-2.60 Best double couple: NP1:ϕ_s205.00000°,δ25.00000°,λ-100.00000°. NP2:ϕ_s36.00000° ,δ65.00000°,λ-85.00000°. Principal axes: T 5.1200,Plg20.0000°,Azm122.0000° ; N 0.0000,Plg4.0000°,Azm214.0000°; P -5.1300,Plg69.0000°,Azm315.0000° M_o5.10000×10^{14}
IDC Error ellipse: s-maj=8.0km s-min=7.3km az=37.0.

ISC	**II**	**14 01 09 43.5–1.2**	**40.42N–.02**	**111.86W–.02**	**1–11**		**74**	**0-22**
NEIC	II	14 01 09 43.0	40.38N	111.92W	5	2.8L		**¶16136344**
IDC	II	14 01 09 44.3–1.5	40.43N	111.84W	0	3.6L,3.2		

ISC Event type fe.
NEIC Event type fe. Felt [III] at Draper and Saratoga Springs and [II] at Eagle Mountain, Herriman and Lehi. Also felt at Pleasant Grove, Riverton, Salt Lake City and South Jordan. After SLC.
IDC Error ellipse: s-maj=27.2km s-min=7.9km az=144.0.

ISC	**IV**	**07 05 10 55.8–.71**	**39.00N–.04**	**111.48W–.03**	**7**		**59**	**2-24**
ISCJB	IV	07 05 10 53.4–.46	38.98N–.03	111.44W–.04	7	3.1b		**¶16512213**
NEIC	IV	07 05 10 54.0	39.00N	111.38W	7	2.8L		
IDC	IV	07 05 10 56.0–.94	39.04N	111.36W	0	3.3,3.2		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.4km az=43.1.
NEIC Event type se. After SLC.
IDC Error ellipse: s-maj=13.8km s-min=9.9km az=111.0.

ISC	**V**	**08 11 32 47.2–1.1**	**39.10N–.05**	**111.26W–.05**	**10**		**28**	**2-24**
IDC	V	08 11 32 41.9–3.6	38.82N	110.95W	0	3.2,3.1		**¶16577237**
NEIC	V	08 11 32 43.0	39.00N	111.37W	1	2.7L,3.1		
ISCJB	V	08 11 32 45.5–.61	39.03N–.05	111.28W–.05	10	2.9b,3.1		

ISC Event type se.
NEIC Event type se. After SLC.
ISCJB Event type se.

(479) Colorado.

ISC	**II**	**13 11 44 52.1–.56**	**37.08N–.02**	**104.95W–.02**	**10**	**3.5b**	**122**	**0-96**
IDC	II	13 11 44 51.2–.83	37.03N	104.98W	0	3.8,3.6		**¶16024732**
NEIC	II	13 11 44 52.6–.39	37.01N	104.94W	5	3.6L,3.6		

ISC Event type fe.
IDC Error ellipse: s-maj=24.2km s-min=9.6km az=80.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=5.8km az=78.0. Felt [II] at Trinidad. Also felt at Weston. Felt at Raton, New Mexico.

ISC	**IV**	**10 09 33 41.5–.77**	**40.37N–.03**	**106.97W–.03**	**5**		**49**	**1-23**
ISCJB	IV	10 09 33 41.0–.45	40.39N–.03	106.99W–.05	5	3.2b		**¶16509629**
NEIC	IV	10 09 33 41.6–.50	40.39N	106.94W	5	3.4L		
IDC	IV	10 09 33 43.2–2.1	40.69N	107.23W	0	4.2L,3.3		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.4km az=145.1.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=5.8km az=216.0.
IDC Error ellipse: s-maj=27.7km s-min=14.0km az=73.0.

ISC	**V**	**09 23 28 53.0–.55**	**37.14N–.02**	**104.84W–.02**	**10**	**3.7b,3.1s**	**108**	**0-94**
NEIC	V	09 23 28 52.8–.51	37.02N	104.78W	5	4.0b,3.9L		**¶16503270**
ISCJB	V	09 23 28 53.1–.25	37.12N–.02	104.71W–.02	10	3.8b,3.3s		

IDC V 09 23 28 53.2–.78 37.20N 104.75W 0 3.9,3.8b
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=6.2km az=171.0. Felt [III] at Weston and [II] at Trinidad. Also felt at Aguilar, Boncarbo, La Junta, La Veta and Walsenburg. Moment Tensor Solution. s31 Moment tensor: Scale 10^{14}Nm; M_{rr}-4.81 $M_{\theta\theta}$0.09 $M_{\phi\phi}$4.72 $M_{r\theta}$1.30 $M_{\theta r}$1.72 $M_{\phi r}$-0.91 Best double couple: NP1:ϕ_s215.00000°,δ45.00000°,λ-65.00000°. NP2: ϕ_s2.00000°,δ50.00000°,λ-113.00000°. Principal axes: T 5.3100,Plg3.0000°,Azm108.0000° ; N 0.0000,Plg17.0000°,Azm17.0000°; P -5.3100,Plg72.0000°,Azm206.0000° M_o5.30000×10^{14}
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=32.9.
IDC Error ellipse: s-maj=15.3km s-min=9.3km az=72.0.
ISC V 11 19 06 14.5–.85 37.18N–.02 104.73W–.02 4–6 3.9b 217 0-96
IDC V 11 19 06 14.0–.70 37.15N 104.78W 0 4.1,4.0b **¶16506948**
NEIC V 11 19 06 15.3–.20 37.10N 104.67W 5 3.9L,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=20.2km s-min=11.3km az=76.0.
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=199.0. Felt [III] at Weston and [II] at Trinidad. Also felt at Aguilar, La Junta and Walsenburg. Moment Tensor Solution. s21 Moment tensor: Scale 10^{14}Nm; M_{rr}-6.19 $M_{\theta\theta}$0.12 $M_{\phi\phi}$6.07 $M_{r\theta}$0.26 $M_{\theta\phi}$0.95 $M_{\phi r}$-1.12 Best double couple: NP1:ϕ_s193.00000°,δ40.00000°,λ-84.00000°. NP2:ϕ_s5.00000° ,δ50.00000°,λ-95.00000°. Principal axes: T 6.3100,Plg5.0000°,Azm99.0000° ; N 0.0000,Plg4.0000°,Azm8.0000°; P -6.3100,Plg84.0000°,Azm240.0000° M_o6.30000×10^{14}
ISC VI 06 05 24 49.4–.65 40.43N–.02 107.06W–.02 10 137 1-23
IDC VI 06 05 24 48.2–1.6 40.50N 107.11W 0 3.8L,3.5 **¶16577400**
ISCJB VI 06 05 24 49.2–.22 40.47N–.02 107.08W–.02 10 3.1b,3.5
NEIC VI 06 05 24 49.6–.23 40.42N 107.03W 5 3.5L,3.5
ISC Event type se.
IDC Error ellipse: s-maj=57.8km s-min=13.1km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=2.4km s-min=2.3km az=32.4.
NEIC Event type se. Error ellipse: s-maj=3.1km s-min=2.8km az=66.0.

(485) Missouri-Illinois border region.

ISC VI 07 08 10 34.2–.97 38.13N–.02 90.91W–.02 15–7 4.3b 579 1-131
ISCJB VI 07 08 10 33.1–.47 38.160N–.01 90.96W–.01 15–4 4.3b,3.7s **¶16560661**
IDC VI 07 08 10 34.7–2.5 38.17N 90.96W 15–19 4.2,4.2L
NEIC VI 07 08 10 36.7 38.08N 90.90W 21 4.2b,3.9W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.5km az=155.3.
IDC Error ellipse: s-maj=13.3km s-min=9.7km az=177.0.
NEIC Event type fe. Felt [IV] at Arcadia, Fletcher, Potosi and Westphalia; [III] in the Camdenton-Louisiana-Perryville area. Also felt [III] in the Carbondale-Pittsfield area, Illinois. Felt throughout central Missouri and southwestern Illinois and in parts of northern Arkansas, eastern Kansas and western Kentucky. After CERI. Moment Tensor Solution. s51 Moment tensor: Scale 10^{14}Nm; M_{rr}1.41 $M_{\theta\theta}$0.90 $M_{\phi\phi}$-2.31 $M_{r\theta}$3.04 $M_{\theta\phi}$6.71 $M_{\phi r}$1.40 Best double couple: NP1:ϕ_s4.00000°,δ67.00000°,λ164.00000°. NP2:ϕ_s100.00000° ,δ75.00000°,λ24.00000°. Principal axes: T 7.8500,Plg27.0000°,Azm323.0000° ; N -0.1700,Plg62.0000°,Azm130.0000°; P -7.6700,Plg5.0000°,Azm230.0000° M_o7.80000×10^{14}

(486) New Madrid region, Missouri.

ISC II 07 04 10 52.3–1.2 36.72N–.03 89.48W–.03 6–11 24 0-4
ISCJB II 07 04 10 52.0–.69 36.70N–.03 89.51W–.03 4–6 **¶601793007**
NEIC II 07 04 10 52.0 36.72N 89.52W 6 2.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=10.8.
NEIC Event type se. After CERI.
ISC V 19 08 41 08.9–1.7 36.76N–.03 90.81W–.06 2–12 30 1-3
NEIC V 19 08 41 10.5 36.82N 90.79W 9 2.5 **¶17340844**
ISC Event type fe.
NEIC Event type fe. Felt at Festus, Poplar Bluff and Wentzville. After CERI.

(497) Northwestern Texas-Oklahoma border region.

ISC I 08 02 48 52.1–.69 35.82N–.02 102.40W–.02 10 114 1-8
ISCJB I 08 02 48 50.4–.28 35.78N–.02 102.62W–.02 10 **¶16158957**
NEIC I 08 02 48 52.0–.48 35.82N 102.37W 5 2.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.2km az=170.4.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.7km az=62.0.

(498) Western Texas.

ISC III 13 20 16 20.2–1.2 32.98N–.03 100.85W–.03 6–8 3.7b 191 1-125
IDC III 13 20 16 19.3–.72 33.04N 100.82W 0 4.2s,4.2 **¶16314259**
NEIC III 13 20 16 20.6–.39 33.00N 100.77W 5 4.0b,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=16.0km s-min=8.4km az=119.0.
NEIC Event type fe. Error ellipse: s-maj=7.5km s-min=5.3km az=161.0. Felt [III] at Snyder. Also felt at Eastland, Joshua, McKinney, Midland and Novice. Moment Tensor Solution. s30 Moment tensor: Scale 10^{14}Nm; M_{rr}-4.33 $M_{\theta\theta}$1.49 $M_{\phi\phi}$2.84 $M_{r\theta}$-3.07 $M_{\theta\phi}$4.18 $M_{\phi r}$1.12 Best double couple: NP1:ϕ_s191.00000°,δ48.00000°,λ-138.00000°. NP2:ϕ_s70.00000° ,δ60.00000°,λ-50.00000°. Principal axes: T 6.5300,Plg7.0000°,Azm133.0000° ; N 0.0000,Plg34.0000°,Azm227.0000°; P -6.5300,Plg55.0000°,Azm33.0000° M_o6.50000×10^{14}
ISC V 02 19 07 14.8–.77 33.04N–.03 100.79W–.03 10 128 1-8
ISCJB V 02 19 07 13.9–.27 33.05N–.02 100.84W–.02 10 **¶16489791**
NEIC V 02 19 07 15.0–.39 33.06N 100.79W 5 3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=140.0.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.3km az=185.0. Felt at Snyder.

(499) Oklahoma.

ISC I 04 18 31 35.5–.80 35.55N–.02 97.25W–.01 10–5 145 0-9
IASPE I 04 18 31 35.7–.85 35.55N–.02 97.25W–.02 12–5 **¶601792860**
NEIC I 04 18 31 36.0 35.56N 97.24W 4 2.9
ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=3.4km s-min=3.2km az=70.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
NEIC Event type fe. Felt [IV] at Harrah and [III] at Choctaw. Also felt at Edmond, Newalla, Oklahoma City, Shawnee and Spencer. After TUL.
ISC II 04 02 06 29.4–.80 35.48N–.02 97.40W–.01 10–5 105 0-7
IASPE II 04 02 06 28.9–.84 35.49N–.02 97.40W–.02 12–5 **¶601792990**
ISCJB II 04 02 06 29.0–.32 35.49N–.01 97.39W–.02 7–2
NEIC II 04 02 06 29.0 35.48N 97.40W 5 2.6
ISC Event type fe.
IASPE Event type fe. Error ellipse: s-maj=3.1km s-min=2.9km az=3.1. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type fe. Error ellipse: s-maj=2.2km s-min=2.1km az=148.9.
NEIC Event type fe. Felt [III] at Oklahoma City and [II] at Choctaw. Also felt at Spencer. After TUL.
ISC V 19 02 46 45.6–.88 35.58N–.02 97.20W–.02 14–7 122 0-8
ISCJB V 19 02 46 45.4–.45 35.60N–.01 97.19W–.02 5–4 **¶16529256**
NEIC V 19 02 46 46.0 35.59N 97.20W 3 2.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=2.3km az=28.9.
NEIC Event type fe. Felt [III] at Harrah and [II] at Luther. Also felt at Choctaw and Oklahoma City. After TUL.

(502) Arkansas.

ISC II 14 18 28 38.8–1.4 35.33N–.03 92.31W–.04 2–12 37 1-3
NEIC II 14 18 28 39.0 35.33N 92.30W 6 2.5 **¶16852134**
ISC Event type fe.
NEIC Event type fe. Felt at Quitman. After CERI.
ISC II 15 22 35 22.6–.96 35.23N–.02 92.36W–.02 5–7 82 0-7
ISCJB II 15 22 35 22.2–.49 35.22N–.02 92.38W–.02 1–3 **¶16398297**
NEIC II 15 22 35 23.1 35.27N 92.37W 6 2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=159.8.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Damascus. After CERI.
ISC II 16 10 53 12.9–1.1 35.29N–.02 92.38W–.02 5–10 64 1-5
NEIC II 16 10 53 13.8 35.28N 92.37W 6 2.6 **¶601793098**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC II 16 14 39 07.5–1.1 35.26N–.02 92.36W–.02 2–10 99 0-5
NEIC II 16 14 39 08.2 35.28N 92.37W 6 2.7 **¶601793104**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Pine Bluff. After CERI.
ISC II 16 15 52 35.1–1.3 35.26N–.03 92.36W–.02 1–11 82 0-7
ISCJB II 16 15 52 35.2–.67 35.26N–.02 92.37W–.02 4–5 **¶601793108**
NEIC II 16 15 52 36.0 35.28N 92.37W 6 2.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=165.1.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC II 16 17 07 02.2–.71 35.27N–.02 92.38W–.02 10 122 0-6
ISCJB II 16 17 07 02.1–.21 35.25N–.02 92.37W–.02 10 **¶601793110**
NEIC II 16 17 07 02.3 35.27N 92.37W 6 2.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.8km az=156.4.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway and Malvern. After CERI.
ISC II 16 21 46 16.1–.83 35.28N–.03 92.35W–.01 6–6 231 0-11
ISCJB II 16 21 46 15.5–.43 35.27N–.01 92.39W–.01 2–3 **¶16030497**
NEIC II 16 21 46 17.1 35.27N 92.36W 7 3.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=1.7km az=153.6.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Fairfield Bay, Hot Springs National Park, Little Rock, Quitman and Vilonia. After CERI.
ISC II 16 23 05 52.9–1.4 35.24N–.03 92.34W–.03 2–11 51 0-4
ISCJB II 16 23 05 52.7–.75 35.25N–.02 92.32W–.03 1–5 **¶16852142**
NEIC II 16 23 05 54.0 35.26N 92.36W 5 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=32.6.
NEIC Event type fe. Felt at Greenbrier. After CERI.
ISC II 17 01 36 44.8–.71 35.27N–.03 92.35W–.02 10 68 0-6
ISCJB II 17 01 36 45.2–.26 35.25N–.02 92.37W–.02 10 **¶601793141**
NEIC II 17 01 36 45.0 35.28N 92.35W 6 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=155.0.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC II 17 02 53 25.3–1.1 35.26N–.02 92.38W–.02 3–8 129 0-22
NEIC II 17 02 53 26.0 35.27N 92.36W 6 3.2 **¶16852146**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Enola. After CERI.
ISC II 17 04 09 39.2–1.2 35.26N–.03 92.35W–.02 3–11 57 0-5
NEIC II 17 04 09 40.0 35.27N 92.35W 6 2.6 **¶601793148**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. Also felt at Edgemont. After CERI.
ISC II 17 06 02 43.9–1.3 35.25N–.02 92.36W–.03 2–11 52 0-5
ISCJB II 17 06 02 43.2–.75 35.24N–.02 92.31W–.04 2–5 **¶16398389**
NEIC II 17 06 02 44.0 35.26N 92.35W 6 2.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=3.7km az=18.2.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC II 17 10 49 47.5–1.1 35.26N–.03 92.36W–.02 7–8 3.5b 407 0-66
IDC II 17 10 49 47.4–.86 35.40N 92.40W 0 4.1L,3.9 **¶16030164**
NEIC II 17 10 49 48.0 35.28N 92.36W 6 4.1b,3.8W
ISC Event type fe.
IDC Error ellipse: s-maj=17.1km s-min=9.1km az=176.0.
NEIC Event type fe. Felt [IV] at Quitman; [III] at Greenbrier and Vilonia; [II] at Conway, Fayetteville and Mountain View. Felt widely in central and northern Arkansas. Also felt in parts of southern Missouri. After CERI. Moment Tensor Solution. s13 Moment tensor: Scale 10^{14} Nm; M_{rr}-0.02 $M_{\theta\theta}$4.52 $M_{\phi\phi}$-4.51 $M_{r\theta}$-2.11 $M_{\theta\phi}$3.83 $M_{\phi r}$-0.98 Best double couple: NP1: ϕ_s296.00000°,δ75.00000°,λ12.00000°. NP2:ϕ_s203.00000°,δ78.00000°,λ165.00000°. Principal axes: T 6.7200,Plg19.0000°,Azm160.0000°; N -0.8100,Plg71.0000°,Azm346.0000° ; P -5.9200,Plg2.0000°,Azm250.0000° M_o6.40000×10^{14}
ISC II 17 14 58 13.4–1.3 35.26N–.03 92.35W–.04 2–11 42 0-5
NEIC II 17 14 58 14.0 35.27N 92.37W 6 2.8 **¶16362987**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway. After CERI.
ISC II 17 18 19 08.3–1.3 35.26N–.03 92.34W–.04 3–11 39 0-5
ISCJB II 17 18 19 07.9–.88 35.26N–.02 92.33W–.03 5–6 **¶16852145**
NEIC II 17 18 19 09.0 35.26N 92.36W 5 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=12.6.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC II 17 22 06 44.1–1.2 35.26N–.02 92.37W–.02 3–10 66 0-7
NEIC II 17 22 06 45.2 35.27N 92.37W 6 3.1,2.7 **¶16032014**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Batesville, Conway, Mountain Home, Norfork and Yellville. After CERI.
ISC II 18 01 24 28.2–1.3 35.26N–.02 92.32W–.03 3–11 62 0-5
NEIC II 18 01 24 29.0 35.25N 92.34W 6 2.5 **¶601793211**
ISC Event type fe.
NEIC Event type fe. Felt at Greenbrier. After CERI.
ISC II 18 04 24 18.9–.76 35.26N–.02 92.37W–.02 10 106 0-6
ISCJB II 18 04 24 18.1–.29 35.24N–.02 92.33W–.02 10 **¶601793223**
NEIC II 18 04 24 19.0 35.26N 92.36W 7 2.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=2.5km az=8.9.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. After CERI.
ISC II 18 04 42 23.7–1.2 35.27N–.02 92.42W–.02 2–10 97 0-13
NEIC II 18 04 42 25.0 35.26N 92.36W 7 2.6 **¶16305023**
ISC Event type se.
NEIC Event type se. After CERI.
ISC II 18 04 59 49.1–.92 35.28N–.02 92.37W–.01 7–6 3.2b 353 1-44
IDC II 18 04 59 49.1–.94 35.39N 92.42W 0 4.2L,3.7 **¶16031275**
NEIC II 18 04 59 50.0 35.26N 92.37W 5 4.0,3.9W
ISC Event type fe.
IDC Error ellipse: s-maj=20.5km s-min=9.4km az=177.0.
NEIC Event type fe. Felt [IV] at Greenbrier and Vilonia; [III] at Conway; [II] at Batesville, Benton, Leslie and Quitman. Widely felt in central, northcentral and northwestern Arkansas. Also felt at West Plains, Missouri. After CERI. Moment Tensor Solution. M_o8.30000×10^{14}
ISC II 18 05 02 02.4–1.1 35.27N–.03 92.38W–.03 7–8 38 0-3
ISCJB II 18 05 02 02.2–.69 35.25N–.02 92.38W–.02 4–4 **¶601793224**
NEIC II 18 05 02 02.7 35.26N 92.36W 6 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=3.2km az=163.8.
NEIC Event type fe. Felt [III] at Conway and Greenbrier. After CERI.
ISC II 18 08 13 34.1–1.1 35.27N–.03 92.38W–.02 5–7 4.1s,4.0b 175 0-112
IDC II 18 08 13 34.0–.61 35.34N 92.38W 0 4.3L,4.0 **¶16158802**
BJI II 18 08 13 34.5 35.19N 93.13W 11 4.8s,4.0
NEIC II 18 08 13 35.0 35.27N 92.38W 6 4.4,4.2b
ISC Event type fe.
IDC Error ellipse: s-maj=11.4km s-min=7.7km az=180.0.
NEIC Event type fe. Felt [IV] at Damascus and Greenbrier; [III] at Conway and Vilonia; [II] at Batesville, Benton, Cotter, Mabelvale, Mountain View and Quitman. Felt in much of central and northern Arkansas. Also felt in parts of southern Missouri and at Stilwell, Oklahoma. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s293.00000°,δ74.00000° ,λ19.00000°. NP2:ϕ_s198.00000°,δ72.00000°,λ163.00000°. Principal axes: T 1.6800,Plg25.0000°,Azm156.0000°; N -0.3800,Plg65.0000°,Azm332.0000° ; P -1.3000,Plg1.0000°,Azm65.0000°
ISC II 18 11 53 33.9–.90 35.25N–.02 92.36W–.02 7–6 68 0-5
ISCJB II 18 11 53 33.8–.48 35.24N–.02 92.38W–.02 3–3 **¶601793270**
NEIC II 18 11 53 34.3 35.26N 92.35W 7 2.7
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=163.4.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway. After CERI.
ISC II 18 12 18 23.9–.69 35.28N–.02 92.38W–.02 10 121 0-7
ISCJB II 18 12 18 24.1–.21 35.25N–.02 92.36W–.02 10 **¶601793272**
NEIC II 18 12 18 24.4 35.27N 92.37W 6 3.2
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.9km az=156.2.

NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Batesville, Center Ridge, Enola, Marcella, Mountain View and Searcy. After CERI.
ISC II 18 13 06 49.7–1.1 35.26N–.02 92.35W–.04 10–10 40 0-3
NEIC II 18 13 06 50.0 35.26N 92.36W 7 2.5 **¶16362990**
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Greenbrier and [II] at Conway. Also felt at Heber Springs. After CERI.
ISC II 18 16 04 22.2–1.3 35.24N–.03 92.34W–.04 5–11 35 0-6
ISCJB II 18 16 04 21.9–.80 35.22N–.02 92.31W–.05 7–6 **¶16362992**
NEIC II 18 16 04 23.0 35.24N 92.36W 7 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.1km az=2.5.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway and Vilonia. After CERI.
ISC II 19 04 51 35.9–.92 35.28N–.02 92.38W–.02 5–7 73 0-5
NEIC II 19 04 51 36.0 35.27N 92.36W 6 2.5 **¶16327674**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. After CERI.
ISC II 20 15 14 59.7–.96 35.26N–.03 92.38W–.02 7–7 177 0-17
NEIC II 20 15 15 00.0 35.26N 92.38W 5 3.7,3.6W **¶16172968**
IDC II 20 15 15 04.3–5.3 35.43N 92.92W 0 4.1L,3.8
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Blytheville, Cabot, Cave City, Damascus, Edgemont, Enola, Marshall and Quitman. After CERI. Moment Tensor Solution. s40 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.08 $M_{\theta\theta}$1.81 $M_{\phi\phi}$-1.73 $M_{r\theta}$-0.05 $M_{\theta\phi}$2.04 $M_{\phi r}$0.52 Best double couple: NP1:ϕ_s110.00000°,δ80.00000°,λ-5.00000°. NP2:ϕ_s201.00000° ,δ85.00000°,λ-170.00000°. Principal axes: T 2.7500,Plg4.0000°,Azm335.0000° ; N 0.0000,Plg79.0000°,Azm227.0000°; P -2.7500,Plg11.0000°,Azm66.0000° $M_0$2.80000×10^{14}
IDC Error ellipse: s-maj=80.6km s-min=16.4km az=108.0.
ISC II 20 18 22 04.6–1.2 35.25N–.03 92.36W–.02 6–10 47 1-6
NEIC II 20 18 22 05.0 35.26N 92.35W 6 2.7 **¶601793402**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Little Rock. After CERI.
ISC II 21 04 27 55.5–.92 35.28N–.02 92.39W–.02 6–7 80 0-8
NEIC II 21 04 27 56.0 35.27N 92.36W 4 2.8 **¶16852154**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Quitman. After CERI.
ISC II 21 05 42 45.4–.96 35.27N–.03 92.35W–.02 8–7 51 0-11
NEIC II 21 05 42 45.8 35.27N 92.36W 4 2.6 **¶601793426**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC II 21 10 59 13.8–1.3 35.27N–.02 92.38W–.03 2–12 52 1-5
NEIC II 21 10 59 14.0 35.26N 92.38W 7 2.5 **¶16852152**
ISC Event type fe.
NEIC Event type fe. Felt at Greenbrier. After CERI.
ISC II 21 16 17 31.7–.72 35.27N–.03 92.37W–.02 12–5 116 0-15
IDC II 21 16 17 30.9–.97 35.39N 92.38W 0 3.8L,3.6 **¶16172971**
ISCJB II 21 16 17 31.1–.50 35.24N–.02 92.35W–.02 4–4 3.8L,3.6
NEIC II 21 16 17 32.0 35.27N 92.39W 6 3.3,3.2W
ISC Event type fe.
IDC Error ellipse: s-maj=18.3km s-min=8.8km az=168.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=157.4.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. Also felt at Edgemont and Jacksonville. After CERI. Moment Tensor Solution. s9 Moment tensor: Scale 10^{13}Nm; M_{rr}-2.93 $M_{\theta\theta}$8.56 $M_{\phi\phi}$-5.63 $M_{r\theta}$1.95 $M_{\theta\phi}$1.02 $M_{\phi r}$4.64 Best double couple: NP1:ϕ_s125.00000°,δ55.00000° ,λ-20.00000°. NP2:ϕ_s227.00000°,δ74.00000°,λ-143.00000°. Principal axes: T 9.1200,Plg12.0000°,Azm352.0000°; N 0.0000,Plg50.0000°,Azm247.0000° ; P -9.1200,Plg37.0000°,Azm91.0000° $M_0$9.10000×10^{13}
ISC II 21 16 21 57.5–.96 35.24N–.03 92.38W–.02 6–8 44 0-3
ISCJB II 21 16 21 57.1–.61 35.22N–.02 92.39W–.02 1–4 **¶601793439**
NEIC II 21 16 21 58.0 35.25N 92.39W 6 2.6
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=2.9km az=149.7.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway. After CERI.
ISC II 21 17 31 59.0–1.3 35.23N–.02 92.39W–.04 4–12 51 0-5
ISCJB II 21 17 31 58.8–.79 35.23N–.03 92.38W–.04 2–7 **¶16425186**
NEIC II 21 17 31 59.0 35.25N 92.36W 7 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.8km s-min=4.1km az=21.4.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Conway. After CERI.
ISC II 21 23 10 19.7–1.3 35.27N–.03 92.43W–.03 3–11 33 1-8
NEIC II 21 23 10 20.0 35.25N 92.39W 5 3.0 **¶16852153**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Damascus and Quitman. After CERI.
ISC II 24 00 29 01.7–1.2 35.27N–.03 92.26W–.03 7–11 42 1-5
NEIC II 24 00 29 03.0 35.28N 92.33W 5 2.6 **¶16852168**
ISC Event type se.
NEIC Event type se. After CERI.
ISC II 24 04 43 16.8–.88 35.28N–.02 92.35W–.02 6–6 96 0-8
ISCJB II 24 04 43 16.7–.47 35.27N–.02 92.34W–.02 5–3 **¶16155412**
NEIC II 24 04 43 17.0 35.29N 92.34W 5 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.4km az=170.9.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Quitman. After CERI.
ISC II 24 12 18 48.7–1.4 35.29N–.03 92.35W–.03 2–11 68 1-5
NEIC II 24 12 18 49.5 35.30N 92.35W 4 2.8 **¶16425205**
ISC Event type fe.
NEIC Event type fe. Felt at Greenbrier and Quitman. After CERI.
ISC II 24 15 07 10.5–.87 35.28N–.02 92.34W–.02 13–6 123 0-20
NEIC II 24 15 07 11.0 35.27N 92.33W 4 3.1,2.7 **¶16160041**
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Greenbrier. Also felt at Quitman and Rose Bud. After CERI.
ISC II 24 16 30 52.3–.97 35.30N–.02 92.35W–.02 4–8 87 0-8
NEIC II 24 16 30 53.1 35.28N 92.34W 5 2.6 **¶16160042**
ISC Event type se.
NEIC Event type se. After CERI.
ISC II 24 17 28 12.9–1.3 35.27N–.03 92.35W–.04 9–11 39 0-3
NEIC II 24 17 28 13.0 35.26N 92.35W 4 2.5 **¶16425206**
ISC Event type fe.
NEIC Event type fe. Felt at Cabot, Greenbrier and Jacksonville. After CERI.
ISC II 25 09 49 00.7–.80 35.27N–.02 92.35W–.02 9–6 284 0-20
ISCJB II 25 09 48 59.8–.41 35.29N–.01 92.39W–.01 3–3 **¶16158495**
IDC II 25 09 49 00.0–1.0 35.28N 92.35W 0 3.9L,3.7
NEIC II 25 09 49 01.4 35.28N 92.37W 6 3.6,3.5W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.8km az=149.6.
IDC Error ellipse: s-maj=17.3km s-min=9.5km az=176.0.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Quitman. Also felt at Batesville, Conway, Mountain Home, Pangburn, Paris, Rogers and Sage. After CERI. Moment Tensor Solution. s17 Moment tensor: Scale 10^{14}Nm; M_{rr}0.40 $M_{\theta\theta}$1.50 $M_{\phi\phi}$-1.90 $M_{r\theta}$-0.79 $M_{\theta\phi}$0.50 $M_{\phi r}$-0.41 Best double couple: NP1:ϕ_s310.00000°,δ65.00000°,λ15.00000°. NP2:ϕ_s214.00000° ,δ76.00000°,λ154.00000°. Principal axes: T 2.0100,Plg28.0000°,Azm169.0000° ; N 0.0000,Plg61.0000°,Azm8.0000°; P -2.0100,Plg8.0000°,Azm264.0000° $M_0$2.00000×10^{14}
ISC II 25 13 16 46.7–1.2 35.24N–.03 92.31W–.04 10–12 28 0-8
NEIC II 25 13 16 48.0 35.25N 92.35W 4 2.5 **¶601793600**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. After CERI.
ISC II 26 14 35 01.2–.94 35.29N–.02 92.35W–.02 6–7 119 0-15
ISCJB II 26 14 35 00.7–.49 35.28N–.02 92.33W–.02 4–3 **¶16160469**
IDC II 26 14 35 00.9–1.1 35.31N 92.28W 0 3.6,3.3
NEIC II 26 14 35 02.0 35.28N 92.35W 3 3.3W,3.3
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=166.7.
IDC Error ellipse: s-maj=21.7km s-min=10.0km az=167.0.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Bee Branch, Conway, Edgemont, Hot Springs National Park, Marshall, Quitman, Searcy and Vilonia. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ75.00000°,λ5.00000°. NP2:ϕ_s204.00000° ,δ85.00000°,λ165.00000°. Principal axes: T 1.0500,Plg14.0000°,Azm158.0000° ; N 0.0000,Plg74.0000°,Azm6.0000°; P -1.0500,Plg7.0000°,Azm250.0000°
ISC II 28 01 44 02.5–1.3 35.27N–.03 92.35W–.03 3–11 35 0-4
ISCJB II 28 01 44 02.2–.84 35.26N–.02 92.32W–.04 3–6 **¶16349993**
NEIC II 28 01 44 03.0 35.27N 92.36W 5 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.1km s-min=4.1km az=7.8.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway and Quitman. After CERI.
ISC II 28 05 00 49.5–.19 35.33N–.01 92.30W–.01 10 4.5b,4.2s 746 0-136
ISCJB II 28 05 00 47.5–.11 35.347N–.01 92.26W–.01 10 4.5b,4.2s **¶16160704**
IDC II 28 05 00 48.7–.46 35.30N 92.33W 0 4.8L,4.5
MOS II 28 05 00 49.4–1.2 35.24N 92.27W 17 4.6b,4.2s
BJI II 28 05 00 49.6 35.29N 92.41W 10 5.6b,5.3s
GCMT II 28 05 00 50.2–.30 35.38N 92.37W 12 4.8W,5.3s
NEIC II 28 05 00 50.2 35.27N 92.34W 4 5.0,4.7W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.4km s-min=1.3km az=33.6.
IDC Error ellipse: s-maj=10.2km s-min=7.6km az=7.0.
MOS Error ellipse: s-maj=5.9km s-min=5.5km az=5.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s8,c8; s78,c105; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.48±.09 $M_{\theta\theta}$1.92±.08; $M_{\phi\phi}$-1.44±.08; $M_{r\theta}$-0.61±.25; $M_{\theta\phi}$0.96±.07; $M_{\phi r}$-0.43±.26; Best double couple: NP1:ϕ_s211.00000°,δ89.00000° ,λ161.00000°. NP2:ϕ_s301.00000°,δ71.00000°,λ1.00000°. Principal axes: T 2.3470,Plg14.0000°,Azm164.0000°; N -0.5990,Plg71.0000°,Azm28.0000° ; P -1.7530,Plg13.0000°,Azm257.0000° $M_0$2.05000×10^{16}
NEIC Event type fe. Felt [V] at Greenbrier and [IV] at Bee Branch, Clinton, Concord, Conway, Damascus, Edgemont, Enola, Glencoe, Higden, Hindsville, Judsonia, Kingston, Lepanto, Lockesburg, Oil Trough, Onia, Parthenon, Quitman, Roland, Timbo, Tuckerman, West Helena and Witts Springs. Felt [III] in much of central and northern Arkansas, in parts of eastern Oklahoma and southern Missouri and in the Memphis, Tennessee area. Also felt in parts of Alabama, Illinois, Indiana, Kansas, Kentucky, Louisiana, Mississippi and Texas. After CERI. Moment Tensor Solution. Best double couple: NP1:ϕ_s295.00000°,δ80.00000° ,λ-5.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ-170.00000°. Principal axes: T 1.1900,Plg4.0000°,Azm160.0000°; N 0.0000,Plg79.0000°,Azm52.0000° ; P -1.1900,Plg11.0000°,Azm251.0000°
ISC II 28 05 17 59.5–.76 35.24N–.02 92.36W–.02 7–5 130 0-13
ISCJB II 28 05 17 59.2–.32 35.23N–.02 92.36W–.01 7–2 **¶16166756**
NEIC II 28 05 18 00.3 35.27N 92.37W 4 3.8W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=165.0.
NEIC Event type fe. Felt [IV] at Greenbrier, [III] at Batesville and Mountain View and [II] at Benton, Conway, Fairfield Bay, Jonesboro and Searcy. Felt widely in Arkansas and southern Missouri and as far as Memphis, Tennessee and Tulsa, Oklahoma. After CERI. Moment Tensor Solution. s8 Moment tensor: Scale 10^{14}Nm; M_{rr}2.08 $M_{\theta\theta}$2.80 $M_{\phi\phi}$-4.88 $M_{r\theta}$-2.46 $M_{\theta\phi}$2.50 $M_{\phi r}$-1.42 Best double couple: NP1:ϕ_s305.00000°,δ60.00000°,λ25.00000°. NP2:ϕ_s202.00000° ,δ69.00000°,λ148.00000°. Principal axes: T 5.6800,Plg38.0000°,Azm161.0000° ; N 0.0000,Plg52.0000°,Azm352.0000°; P -5.6900,Plg5.0000°,Azm255.0000° $M_0$5.70000×10^{14}
ISC II 28 06 32 43.8–.84 35.29N–.02 92.35W–.02 6–5 55 0-5
ISCJB II 28 06 32 43.8–.43 35.28N–.02 92.37W–.02 4–3 **¶16442161**
NEIC II 28 06 32 44.2 35.28N 92.34W 5 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=160.6.
NEIC Event type fe. Felt [III] at Conway and [II] at Greenbrier. Also felt at Center Ridge, Quitman and Vilonia. After CERI.
ISC II 28 08 46 10.3–.69 35.33N–.02 92.31W–.02 10–4 230 0-15
ISCJB II 28 08 46 10.3–.33 35.31N–.01 92.37W–.01 6–2 **¶16166758**
IDC II 28 08 46 11.0–.95 35.46N 92.28W 0 4.1L,3.8
NEIC II 28 08 46 11.7 35.28N 92.34W 2 3.4W,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.3km s-min=2.0km az=165.0.
IDC Error ellipse: s-maj=16.4km s-min=8.6km az=161.0.
NEIC Event type fe. Felt [III] at Greenbrier. Felt widely in central and northern Arkansas and in parts of southern Missouri. After CERI. Moment Tensor Solution. s14 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.08 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-1.28 $M_{r\theta}$-0.34 $M_{\theta\phi}$1.06 $M_{\phi r}$0.28 Best double couple: NP1: ϕ_s206.00000°,δ75.00000°,λ-175.00000°. NP2:ϕ_s115.00000°,δ85.00000°,λ-15.00000°. Principal axes: T 1.7600,Plg7.0000°,Azm161.0000°; N 0.0000,Plg74.0000°,Azm277.0000° ; P -1.7600,Plg14.0000°,Azm70.0000° $M_0$1.80000×10^{14}
ISC II 28 13 15 52.7–1.1 35.28N–.02 92.35W–.02 4–9 53 0-4
ISCJB II 28 13 15 52.5–.65 35.28N–.02 92.36W–.02 1–5 **¶601793689**
NEIC II 28 13 15 53.4 35.27N 92.34W 4 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.9km az=178.5.
NEIC Event type fe. Felt [V] at Greenbrier. Felt in parts of central Arkansas. After CERI.
ISC II 28 14 08 51.2–.92 35.28N–.02 92.33W–.02 6–6 53 0-3
ISCJB II 28 14 08 50.9–.49 35.26N–.02 92.33W–.02 5–3 **¶601793690**
NEIC II 28 14 08 51.5 35.28N 92.34W 4 2.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=160.8.
NEIC Event type fe. Felt [IV] at Greenbrier and [III] at Conway. Felt in parts of central Arkansas. After CERI.
ISC III 01 03 35 28.9–1.3 35.25N–.03 92.36W–.03 10–11 42 1-6
NEIC III 01 03 35 29.0 35.25N 92.36W 5 2.7 **¶16349996**
ISC Event type fe.
NEIC Event type fe. Felt at Alexander, Bryant, Conway, Harrison, Kingston, Morrilton and Western Grove. After CERI.
ISC III 01 10 56 19.1–.80 35.32N–.02 92.36W–.02 7–5 160 0-18
NEIC III 01 10 56 20.2 35.29N 92.34W 2 3.2W **¶16442164**
ISC Event type fe.
NEIC Event type fe. Felt at Benton, Conway, De Valls Bluff, Gassville, Harrison, Pine Bluff, Quitman, Sheridan and Springdale. Also felt at Memphis, Tennessee. After CERI. Moment Tensor Solution. s4 Moment tensor: Scale 10^{13}Nm; M_{rr}0.95 $M_{\theta\theta}$5.25 $M_{\phi\phi}$-6.20 $M_{r\theta}$-2.24 $M_{\theta\phi}$5.43 $M_{\phi r}$-2.12 Best double couple: NP1:ϕ_s295.00000°,δ70.00000°,λ10.00000°. NP2: ϕ_s202.00000°,δ81.00000°,λ160.00000°. Principal axes: T 8.1500,Plg21.0000°,Azm157.0000° ; N 0.0000,Plg68.0000°,Azm358.0000°; P -8.5100,Plg7.0000°,Azm250.0000° $M_0$8.50000×10^{13}
ISC III 02 08 25 21.3–1.4 35.22N–.03 92.34W–.03 1–11 37 1-5
NEIC III 02 08 25 23.0 35.23N 92.38W 6 2.5 **¶16852189**
ISC Event type se.
NEIC Event type se. After CERI.
ISC III 03 15 31 48.8–.84 35.27N–.02 92.35W–.02 8–6 163 0-10
NEIC III 03 15 31 49.4 35.27N 92.37W 6 3.1W **¶601793740**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway, Marshall and Quitman. After CERI. Moment Tensor Solution. s5 Moment tensor: Scale 10^{13}Nm; M_{rr}0.10 $M_{\theta\theta}$6.27 $M_{\phi\phi}$-6.37 $M_{r\theta}$-0.79 $M_{\theta\phi}$-1.06 $M_{\phi r}$0.06 Best double couple: NP1:ϕ_s320.00000°,δ85.00000°,λ5.00000°. NP2:ϕ_s230.00000°,δ85.00000°,λ175.00000°. Principal axes: T 6.4600,Plg7.0000° ,Azm185.0000°; N 0.0000,Plg83.0000°,Azm5.0000°; P -6.4600,Plg0.0000°,Azm275.0000° $M_0$6.50000×10^{13}
ISC III 03 15 55 24.7–.77 35.27N–.02 92.40W–.02 14–5 246 0-15
NEIC III 03 15 55 24.9 35.24N 92.39W 7 3.5W **¶601793741**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway and Edgemont. Also felt at Batesville, Clinton, Hardy, Heber Springs, Higden, Marshall, Mountain View, North Little Rock, Quitman, Timbo, Vilonia, West Helena, White Hall, Wynne and Yellville. After CERI. Moment Tensor Solution. s19 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.13 $M_{\theta\theta}$2.13 $M_{\phi\phi}$-2.00 $M_{r\theta}$-0.08 $M_{\theta\phi}$0.68 $M_{\phi r}$0.52 Best double couple: NP1:ϕ_s125.00000°,δ80.00000°,λ-10.00000°. NP2:ϕ_s217.00000° ,δ80.00000°,λ-170.00000°. Principal axes: T 2.2400,Plg0.0000°,Azm351.0000° ; N 0.0000,Plg76.0000°,Azm260.0000°; P -2.2400,Plg14.0000°,Azm81.0000° $M_0$2.20000×10^{14}
ISC III 03 17 02 55.8–.96 35.26N–.02 92.37W–.02 8–8 59 0-11
NEIC III 03 17 02 56.1 35.25N 92.37W 4 2.5 **¶16359828**
ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Quitman. After CERI.
ISC III 03 19 03 03.7–.96 35.27N–.03 92.35W–.03 6–8 36 0-4
NEIC III 03 19 03 04.2 35.25N 92.36W 4 2.5 **¶16442182**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.
ISC III 07 22 06 45.9–1.3 35.23N–.02 92.41W–.03 7–11 65 1-5
NEIC III 07 22 06 46.0 35.23N 92.39W 5 2.7 **¶16915393**
ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Choctaw and Conway. After CERI.
ISC III 09 20 48 29.8–.91 35.26N–.02 92.38W–.02 9–7 169 0-16
NEIC III 09 20 48 31.0 35.24N 92.40W 6 3.5,3.3W **¶16930184**

ISC Event type fe.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Batesville, Beebe, Blytheville, Damascus, Hector, Horseshoe Bend, Jacksonville, Lonsdale, Nashville, Sherwood and Vilonia. Felt at Leasburg, Poplar Bluff and West Plains, Missouri. After CERI. Moment Tensor Solution. $M_0$1.30000×10^{14}

ISC	**III**	**09 22 17 40.6–.90**	**35.28N–.03**	**92.34W–.03**	**10**		**68**	**1-5**
NEIC	III	09 22 17 41.0	35.27N	92.34W	4	2.6		**¶16915394**
ISCJB	III	09 22 17 41.0–.45	35.25N–.02	92.32W–.03	10	2.6		

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Greenbrier and [II] at Conway. Also felt at Morrilton and Sherwood. After CERI.
ISCJB Event type fe.

ISC	**III**	**10 10 58 36.4–.88**	**35.30N–.02**	**92.38W–.03**	**10**		**73**	**1-8**
ISCJB	III	10 10 58 36.9–.43	35.28N–.02	92.31W–.03	10			**¶16915395**
NEIC	III	10 10 58 36.0	35.29N	92.34W	2	2.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=12.3.
NEIC Event type fe. Felt at Greenbrier. After CERI.

ISC	**III**	**10 11 52 57.0–.86**	**35.31N–.02**	**92.34W–.03**	**10**		**73**	**1-7**
NEIC	III	10 11 52 57.0	35.29N	92.34W	3	2.8		**¶16915396**
ISCJB	III	10 11 52 57.8–.42	35.29N–.02	92.33W–.03	10	2.8		

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Benton, Clinton, Conway, Little Rock and Quitman. After CERI.
ISCJB Event type fe.

ISC	**III**	**11 14 18 28.2–1.4**	**35.29N–.03**	**92.38W–.05**	**4–13**		**34**	**1-5**
NEIC	III	11 14 18 28.0	35.27N	92.34W	4	2.6		**¶16930186**

ISC Event type fe.
NEIC Event type fe. Felt at Cabot and Conway. After CERI.

ISC	**III**	**13 05 07 39.1–1.3**	**35.31N–.02**	**92.37W–.04**	**6–11**		**43**	**1-5**
NEIC	III	13 05 07 39.0	35.31N	92.31W	5	2.5		**¶16477249**

ISC Event type fe.
NEIC Event type fe. Felt at Conway, Edgemont and Greenbrier. After CERI.

ISC	**III**	**13 09 11 40.8–1.1**	**35.31N–.02**	**92.33W–.02**	**1–10**		**57**	**1-5**
NEIC	III	13 09 11 41.2	35.30N	92.31W	5	2.5		**¶16314241**

ISC Event type se.
NEIC Event type se. After CERI.

ISC	**III**	**14 00 23 24.2–1.4**	**35.27N–.03**	**92.35W–.04**	**4–10**		**41**	**1-8**
NEIC	III	14 00 23 25.0	35.26N	92.35W	6	2.6		**¶16918862**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. After CERI.

ISC	**III**	**17 17 59 46.4–1.3**	**35.23N–.03**	**92.37W–.03**	**1–11**		**44**	**1-5**
NEIC	III	17 17 59 47.0	35.24N	92.39W	5	3.0		**¶16918863**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Blevins, Ida, Little Rock and Pangburn. Felt at West Plains, Missouri. After CERI.

ISC	**III**	**21 04 33 17.4–.94**	**35.24N–.02**	**92.43W–.03**	**7–7**		**44**	**0-5**
ISCJB	III	21 04 33 16.4–.69	35.21N–.02	92.37W–.04	5–4			**¶16374394**
NEIC	III	21 04 33 17.0	35.23N	92.39W	6	2.6		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.3km az=1.9.
NEIC Event type se. After CERI.

ISC	**III**	**22 19 56 05.4–.76**	**35.25N–.02**	**92.40W–.02**	**8–4**		**140**	**0-26**
NEIC	III	22 19 56 05.4	35.24N	92.40W	5	3.3		**¶16509589**

ISC Event type fe.
NEIC Event type fe. Felt [IV] at Conway and [III] at Greenbrier. Also felt at Benton and Vilonia. After CERI.

ISC	**III**	**22 22 02 18.2–1.2**	**35.30N–.02**	**92.42W–.03**	**3–11**		**48**	**1-6**
NEIC	III	22 22 02 19.0	35.25N	92.38W	6	2.5		**¶16918864**

ISC Event type fe.
NEIC Event type fe. Felt at Conway, Greenbrier and Little Rock. After CERI.

ISC	**III**	**30 07 50 30.1–1.4**	**35.27N–.02**	**92.31W–.04**	**2–11**		**56**	**1-5**
NEIC	III	30 07 50 31.0	35.27N	92.34W	4	2.5		**¶16918868**

ISC Event type se.
NEIC Event type se. After CERI.

ISC	**III**	**30 08 28 52.3–1.4**	**35.29N–.02**	**92.32W–.04**	**4–10**		**43**	**1-5**
NEIC	III	30 08 28 53.0	35.27N	92.34W	4	2.5		**¶16918869**

ISC Event type se.
NEIC Event type se. After CERI.

ISC	**IV**	**07 02 34 49.6–.98**	**35.29N–.02**	**92.42W–.02**	**7–8**		**295**	**0-17**
ISCJB	IV	07 02 34 49.4–.52	35.28N–.01	92.41W–.02	8–4			**¶16424633**
NEIC	IV	07 02 34 50.0	35.23N	92.37W	6	3.4W		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.9km az=25.0.
NEIC Event type fe. Felt [IV] at Greenbrier; [III] at Damascus and Vilonia; [II] at Conway, Little Rock, Mountain Home and Mountain View. Also felt at Alpena, Arkadelphia, Benton, Cabot, Cave City, Choctaw, Enola, Fayetteville, Fort Smith, Hardy, Harrison, Huntsville, Kingston, Lakeview, Mabelvale, Maumelle, Mayflower, North Little Rock, Prairie Grove, Quitman and Rogers. After CERI. Moment Tensor Solution. s12 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.12 $M_{\theta\theta}$1.36 $M_{\phi\phi}$-1.24 $M_{r\theta}$0.23 $M_{\theta\phi}$1.01 $M_{\phi r}$0.74 Best double couple: NP1:ϕ_s115.00000°,δ65.00000°,λ-5.00000°. NP2:ϕ_s207.00000°,δ85.00000°,λ-155.00000°. Principal axes: T 1.8200,Plg14.0000°,Azm338.0000°; N 0.0000,Plg65.0000°,Azm217.0000°; P -1.8200,Plg21.0000°,Azm74.0000° $M_0$1.80000×10^{14}

ISC	**IV**	**07 10 03 34.0–1.4**	**35.25N–.03**	**92.36W–.04**	**4–12**		**38**	**1-5**
NEIC	IV	07 10 03 34.6	35.24N	92.36W	3	2.5		**¶16577717**

ISC Event type fe.
NEIC Event type fe. Felt at Conway and Greenbrier. After CERI.

ISC	**IV**	**07 23 11 09.3–.93**	**35.25N–.02**	**92.38W–.02**	**8–7**	**3.6b**	**328**	**0-44**
ISCJB	IV	07 23 11 08.3–.45	35.27N–.01	92.37W–.01	8–3	3.5b		**¶16414236**
NEIC	IV	07 23 11 09.0	35.25N	92.37W	6	4.0b,3.9W		
IDC	IV	07 23 11 09.4–.95	35.20N	92.30W	0	3.9,3.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.8km az=21.5.
NEIC Event type fe. Felt [IV] at Greenbrier, [III] at Quitman and Vilonia and [II] at Conway. Felt widely in central and northwestern Arkansas. Also felt in parts of southern Missouri and at Collierville, Tennessee. After CERI. Moment Tensor Solution. s25 Moment tensor: Scale 10^{14}Nm; M_{rr}0.42 $M_{\theta\theta}$5.03 $M_{\phi\phi}$-5.45 $M_{r\theta}$-1.53 $M_{\theta\phi}$4.67 $M_{\phi r}$-2.10 Best double couple: NP1:ϕ_s295.00000°,δ70.00000°,λ5.00000°. NP2:ϕ_s203.00000°,δ85.00000°,λ160.00000°. Principal axes: T 7.4900,Plg17.0000°,Azm157.0000°; N 0.0000,Plg69.0000°,Azm11.0000°; P -7.4900,Plg11.0000°,Azm251.0000° $M_0$7.50000×10^{14}
IDC Error ellipse: s-maj=19.5km s-min=9.5km az=170.0.

ISC	**IV**	**08 03 27 57.5–1.1**	**35.27N–.02**	**92.40W–.02**	**3–8**		**199**	**0-16**
NEIC	IV	08 03 27 58.0	35.26N	92.39W	6	3.2		**¶16529571**

ISC Event type fe.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Conway, Mountain View, Quitman and Vilonia. After CERI.

ISC	**IV**	**08 06 47 43.6–.90**	**35.24N–.02**	**92.37W–.02**	**6–7**		**53**	**0-4**
ISCJB	IV	08 06 47 43.3–.46	35.25N–.02	92.38W–.02	2–3			**¶16424646**
NEIC	IV	08 06 47 43.9	35.24N	92.36W	4	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.3km s-min=2.7km az=177.2.
NEIC Event type fe. Felt at Greenbrier. After CERI.

ISC	**IV**	**08 12 46 38.6–.85**	**35.24N–.02**	**92.39W–.02**	**6–6**		**47**	**0-4**
ISCJB	IV	08 12 46 38.3–.38	35.24N–.02	92.39W–.02	3–3			**¶16577753**
NEIC	IV	08 12 46 39.0	35.24N	92.37W	6	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=3.1km az=144.9.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Vilonia. After CERI.

ISC	**IV**	**08 13 16 48.1–.90**	**35.23N–.03**	**92.35W–.04**	**13–7**		**44**	**0-5**
ISCJB	IV	08 13 16 47.8–.55	35.24N–.02	92.35W–.04	5–5			**¶16587447**
NEIC	IV	08 13 16 48.0	35.24N	92.37W	6	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=3.6km az=13.3.
NEIC Event type fe. Felt at Conway and Greenbrier. After CERI.

ISC	**IV**	**08 14 56 32.0–.78**	**35.27N–.02**	**92.34W–.03**	**11–5**	**4.0b,3.5s**	**335**	**0-101**
IDC	IV	08 14 56 31.7–.81	35.43N	92.38W	0	4.2L,4.0		**¶16414578**
NEIC	IV	08 14 56 32.0	35.26N	92.36W	6	3.9W,3.9b		

ISC Event type fe.
IDC Error ellipse: s-maj=15.3km s-min=10.6km az=168.0.

NEIC Event type fe. Felt [IV] at Damascus, Greenbrier and Mayflower; [III] at Bentonville, Fort Smith, Higden and Van Buren; [II] at Benton, Conway, Fayetteville, Little Rock, Springdale and Stuttgart. Felt widely in central and northwestern Arkansas. After CERI. Moment Tensor Solution. s25 Moment tensor: Scale 10^{14}Nm; M_{rr}-0.34 $M_{\theta\theta}$6.72 $M_{\phi\phi}$-6.38 $M_{r\theta}$0.49 $M_{\theta\phi}$3.59 $M_{\phi r}$2.03 Best double couple: NP1:ϕ_s120.00000°,δ75.00000°,λ-5.00000°. NP2:ϕ_s211.00000°,δ85.00000°,λ-165.00000°. Principal axes: T 7.7600,Plg7.0000°,Azm345.0000°; N 0.0000,Plg74.0000°,Azm229.0000°; P -7.7600,Plg14.0000°,Azm77.0000° $M_0$7.80000×10^{14}

ISC	**IV**	**08 16 02 38.9–.90**	**35.26N–.03**	**92.34W–.03**	**11–8**		**41**	**0-7**
NEIC	IV	08 16 02 39.0	35.25N	92.37W	6	2.9		**¶17226703**

ISC Event type se.
NEIC Event type se. After CERI.

ISC	**IV**	**08 16 46 19.1–1.0**	**35.25N–.02**	**92.38W–.02**	**5–9**		**123**	**0-11**
ISCJB	IV	08 16 46 18.6–.47	35.25N–.01	92.36W–.02	3–3			**¶16424648**
NEIC	IV	08 16 46 19.0	35.26N	92.38W	6	3.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.4km az=165.7.
NEIC Event type fe. Felt [III] at Greenbrier and [II] at Conway. Also felt at Batesville, Bauxite, Benton, Damascus, Eureka Springs, Fayetteville, Harrison, Hot Springs National Park, Kingston, Midway, Shirley, Springdale and West Memphis. After CERI.

ISC	**IV**	**09 23 27 10.1–1.1**	**35.48N–.02**	**92.33W–.03**	**8–10**		**46**	**0-5**
NEIC	IV	09 23 27 10.0	35.48N	92.30W	0	2.6		**¶17236553**

ISC Event type se.
NEIC Event type se. After CERI.

ISC	**IV**	**16 20 44 41.7–.91**	**35.37N–.02**	**92.67W–.01**	**11–7**		**127**	**0-9**
ISCJB	IV	16 20 44 41.5–.37	35.35N–.01	92.67W–.02	4–3			**¶16476056**
NEIC	IV	16 20 44 42.0	35.35N	92.67W	3	3.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.2km az=4.4.
NEIC Event type fe. Felt at Cabot and Solgohachia. After CERI.

ISC	**IV**	**18 21 52 34.4–.84**	**35.25N–.02**	**92.38W–.03**	**7–5**		**39**	**0-2**
ISCJB	IV	18 21 52 34.1–.39	35.26N–.02	92.41W–.03	2–4			**¶16648972**
NEIC	IV	18 21 52 34.5	35.24N	92.35W	5	2.6		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.3km az=0.1.
NEIC Event type fe. Felt at Greenbrier. After CERI.

ISC	**IV**	**19 10 33 09.3–.78**	**35.26N–.02**	**92.38W–.02**	**5–4**		**137**	**0-16**
ISCJB	IV	19 10 33 08.5–.26	35.26N–.01	92.35W–.01	8–1			**¶16449049**
IASPE	IV	19 10 33 09.1–1.2	35.27N–.03	92.38W–.03	6–6			
NEIC	IV	19 10 33 09.3	35.25N	92.36W	3	3.5b,3.3		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=1.8km az=7.4.
IASPE Event type fe. Error ellipse: s-maj=5.0km s-min=4.0km az=68.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Antoine, Beebe, Benton, Cabot, Conway and Vilonia. After CERI.

ISC	**IV**	**23 19 32 41.1–.83**	**35.24N–.02**	**92.39W–.02**	**7–5**		**78**	**0-5**
ISCJB	IV	23 19 32 40.8–.36	35.25N–.02	92.36W–.02	5–2			**¶16476066**
NEIC	IV	23 19 32 41.2	35.24N	92.37W	7	2.7		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.4km az=21.8.
NEIC Event type fe. Felt [III] at Greenbrier. Also felt at Alexander. After CERI.

ISC	**IV**	**24 05 12 11.5–1.1**	**35.23N–.03**	**92.40W–.02**	**4–9**		**40**	**0-7**
ISCJB	IV	24 05 12 11.0–.54	35.23N–.02	92.37W–.03	5–4			**¶17236555**
NEIC	IV	24 05 12 12.0	35.23N	92.37W	4	2.6		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.2km az=39.4.
NEIC Event type se. After CERI.

ISC	**IV**	**24 06 18 56.5–.80**	**35.22N–.02**	**92.40W–.02**	**5–5**		**180**	**0-11**
ISCJB	IV	24 06 18 56.2–.28	35.22N–.01	92.39W–.01	7–2			**¶16476070**
NEIC	IV	24 06 18 57.0	35.23N	92.38W	6	3.2		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.9km az=10.3.
NEIC Event type fe. Felt [III] at Conway, Damascus and Greenbrier. Also felt at Mountain Home and Rose Bud. After CERI.

ISC	**IV**	**24 08 47 05.0–.80**	**35.23N–.02**	**92.41W–.02**	**5–5**		**117**	**0-9**
ISCJB	IV	24 08 47 04.6–.31	35.22N–.01	92.40W–.01	4–2			**¶16476071**
NEIC	IV	24 08 47 05.0	35.23N	92.38W	5	2.9		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.5km s-min=2.1km az=3.3.
NEIC Event type fe. Felt at Benton, Conway and Greenbrier. After CERI.

ISC	**V**	**07 13 08 28.7–.84**	**35.24N–.02**	**92.38W–.02**	**9–5**		**87**	**0-9**
ISCJB	V	07 13 08 28.6–.36	35.25N–.02	92.36W–.02	7–3			**¶16684761**
NEIC	V	07 13 08 29.0	35.25N	92.38W	6	3.1		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.5km az=137.2.
NEIC Event type fe. Felt [II] at Conway and Greenbrier. Also felt at Benton, Damascus, Harrison and Mountain Veiw. After CERI.

ISC	**V**	**13 17 14 32.3–.87**	**35.26N–.02**	**92.37W–.02**	**5–5**		**82**	**0-6**
ISCJB	V	13 17 14 31.5–.32	35.27N–.02	92.36W–.02	6–2			**¶16719706**
NEIC	V	13 17 14 32.1	35.26N	92.36W	4	2.8		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=2.5km az=8.2.
NEIC Event type fe. Felt [II] at Greenbrier. Also felt at Benton and Quitman. After CERI.

ISC	**V**	**14 14 36 38.8–.92**	**35.20N–.03**	**92.22W–.03**	**8–6**		**33**	**0-4**
ISCJB	V	14 14 36 38.4–.59	35.18N–.02	92.19W–.03	8–3			**¶16717018**
NEIC	V	14 14 36 39.0	35.20N	92.21W	7	2.5		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.7km az=42.3.
NEIC Event type fe. Felt at Conway. After CERI.

(508) Western Florida.

ISC	**II**	**18 23 15 32.9–.87**	**30.11N–.06**	**87.89W–.04**	**10**		**51**	**3-141**
ISCJB	II	18 23 15 31.7–.57	30.21N–.04	87.91W–.03	10	4.0b		**¶16342614**
IDC	II	18 23 15 31.6–3.5	30.18N	88.11W	0	4.2,4.0		
NEIC	II	18 23 15 32.0–.85	30.08N	88.00W	5	3.5,4.0		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.0km az=11.3.
IDC Error ellipse: s-maj=66.2km s-min=12.6km az=151.0.
NEIC Event type fe. Error ellipse: s-maj=12.9km s-min=5.5km az=181.0. Felt at Gulfport, Moss Point, Ocean Springs and Pearl. Felt [IV] on Dauphin Island; [III] at Bon Secour, Daphne and Gulf Shores; [II] at Foley and Mobile, Alabama. Also felt at Fairhope, Loxley, Magnolia Springs, Orange Beach and Prattville. Felt [II] at Pensacola, Florida. Also felt at Blountstown, Defuniak Springs, McDavid, Navarre, Niceville, Panama City, Port Saint Joe, Shalimar and Tallahassee.

(513) Off east coast of United States.

IDC	**II**	**24 22 05 54.9–575**	**30.05N**	**77.83W**	**0**			**¶17192809**

IDC Error ellipse: s-maj=306.2km s-min=154.1km az=37.0.

IDC	**III**	**09 16 57 03.0–687**	**29.10N**	**78.74W**	**0**			**¶17193568**

IDC Error ellipse: s-maj=340.4km s-min=205.1km az=40.0.

IDC	**V**	**16 13 02 15.2–999**	**30.64N**	**79.67W**	**0**			**¶17203752**

IDC Error ellipse: s-maj=1232.0km s-min=283.5km az=155.0.

(514) Florida Peninsula.

IDC	**IV**	**13 18 57 17.5–778**	**29.43N**	**82.55W**	**0**			**¶17200930**

IDC Error ellipse: s-maj=377.6km s-min=232.8km az=35.0.

(516) Eastern Arizona-Sonora border region.

MEX	**IV**	**15 19 36 38.6–1.6**	**31.25N**	**109.15W**	**16–37**	**3.9**		**¶602596204**

MEX Error ellipse: s-maj=16.8km s-min=17.3km az=-1.0.

(518) Texas-Mexico border region.

ISC	**IV**	**28 01 03 40.5–1.2**	**30.71N–.03**	**105.59W–.03**	**2–8**	**4.2b**	**180**	**1-127**

IDC IV 28 01 03 40.7–.61 30.74N 105.77W 0 4.3,4.1b ¶16483643
NEIC IV 28 01 03 42.0–1.6 30.74N 105.71W 6–11 4.4,4.4b
MEX IV 28 01 03 42.7–.47 30.66N 105.57W 10 4.4,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=20.0km s-min=5.7km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=6.4km s-min=4.2km az=195.0. Felt at El Paso and Van Horn, Texas.
MEX Error ellipse: s-maj=4.9km s-min=5.5km az=-1.0.
ISC IV 28 03 56 22.6–.77 30.65N–.04 105.79W–.03 10 62 1-21
ISCJB IV 28 03 56 22.7–.42 30.61N–.04 105.81W–.03 10 ¶16577908
MEX IV 28 03 56 25.7–.54 30.66N 105.54W 10 4.1
NEIC IV 28 03 56 25.6–.51 30.74N 105.78W 10 4.1,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.8km az=170.9.
MEX Error ellipse: s-maj=5.2km s-min=6.0km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=4.0km az=2.0.
ISC IV 28 04 58 34.2–.54 30.69N–.04 105.66W–.02 10 3.5b 61 1-127
IDC IV 28 04 58 32.0–1.3 30.82N 105.89W 0 4.3L,4.0 ¶16483646
ISCJB IV 28 04 58 33.4–.33 30.70N–.03 105.74W–.03 10 3.6b,3.3s
NEIC IV 28 04 58 34.6–1.8 30.68N 105.75W 9–13 4.1,4.1b
MEX IV 28 04 58 35.8–.90 30.71N 105.54W 10 4.1,4.1b
ISC Event type fe.
IDC Error ellipse: s-maj=32.5km s-min=7.9km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.4km az=174.6.
NEIC Event type fe. Error ellipse: s-maj=6.8km s-min=4.8km az=187.0. Felt at El Paso, Texas. Moment Tensor Solution. s17 Moment tensor: Scale 10^{14}Nm; M_{rr}-2.10 $M_{\theta\theta}$-1.10 $M_{\phi\phi}$3.20 $M_{r\theta}$-0.24 $M_{\theta\phi}$-0.97 $M_{\theta r}$-1.92 Best double couple: NP1:ϕ_s6.00000°,δ65.00000°,λ-68.00000°. NP2:ϕ_s143.00000°,δ33.00000°,λ-128.00000°. Principal axes: T 3.9600,Plg17.0000° ,Azm80.0000°; N -1.0800,Plg20.0000°,Azm176.0000°; P -2.8900,Plg63.0000° ,Azm312.0000° $M_0$3.50000×10^{14}
MEX Error ellipse: s-maj=9.0km s-min=10.6km az=-1.0.
ISC IV 30 01 07 15.9–.76 30.78N–.03 105.86W–.02 10 61 1-8
ISCJB IV 30 01 07 15.3–.48 30.79N–.04 105.75W–.03 10 ¶16577920
NEIC IV 30 01 07 16.8–.43 30.76N 105.75W 10 4.6,4.2L
MEX IV 30 01 07 16.7–1.0 30.58N 105.45W 20–65 4.6,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=180.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=3.6km az=180.0.
MEX Error ellipse: s-maj=30.8km s-min=30.7km az=-1.0.
ISC V 02 11 43 27.4–.87 30.74N–.03 105.70W–.04 7–5 4.3b,3.5s 262 1-127
IDC V 02 11 43 26.2–.56 30.74N 105.76W 0 4.3,4.1 ¶16487757
NEIC V 02 11 43 28.2–.30 30.73N 105.72W 10 4.5,4.3b
MEX V 02 11 43 28.6–.59 30.75N 105.66W 5–12 4.5,4.3b
ISC Event type fe.
IDC Error ellipse: s-maj=15.6km s-min=5.6km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.4km az=193.0. Felt at Ciudad Juarez. Felt [II] at El Paso, Texas. Felt at Santa Teresa, New Mexico. Moment Tensor Solution. s42 Moment tensor: Scale 10^{15}Nm; M_{rr}-2.25 $M_{\theta\theta}$0.00 $M_{\phi\phi}$2.25 $M_{r\theta}$-0.35 $M_{\theta\phi}$-0.60 $M_{\theta r}$-1.30 Best double couple: NP1:ϕ_s152.00000°,δ33.00000°,λ-114.00000°. NP2:ϕ_s0.00000° ,δ60.00000°,λ-75.00000°. Principal axes: T 2.6900,Plg14.0000°,Azm79.0000° ; N 0.0000,Plg13.0000°,Azm172.0000°; P -2.6900,Plg71.0000°,Azm304.0000° $M_0$2.70000×10^{15}
MEX Error ellipse: s-maj=10.3km s-min=10.5km az=-1.0.
ISC V 02 11 58 35.5–1.0 30.78N–.05 105.73W–.05 10 25 1-7
ISCJB V 02 11 58 35.1–.54 30.77N–.04 105.70W–.04 10 ¶17330113
NEIC V 02 11 58 36.4–.66 30.74N 105.70W 10 3.3L
MEX V 02 11 58 39.1–.29 30.81N 105.65W 10–5 4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=4.8km az=149.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.9km az=156.0.
MEX Error ellipse: s-maj=3.3km s-min=3.8km az=-1.0.
ISC V 02 13 40 30.6–.78 30.65N–.03 105.66W–.03 10 37 1-11
ISCJB V 02 13 40 31.1–.49 30.65N–.03 105.64W–.04 10 ¶16577955
NEIC V 02 13 40 32.6–.73 30.69N 105.75W 10 3.3L
MEX V 02 13 40 33.6–.32 30.68N 105.57W 5 4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=22.9.
NEIC Event type se. Error ellipse: s-maj=10.5km s-min=9.5km az=131.0.
MEX Error ellipse: s-maj=3.5km s-min=6.2km az=-1.0.
ISC V 02 13 55 36.5–.65 30.82N–.04 105.69W–.03 5–3 4.5b 307 1-127
IDC V 02 13 55 35.7–.58 30.80N 105.68W 0 4.3,4.2b ¶16487763
NEIC V 02 13 55 36.8–1.3 30.73N 105.67W 5–9 4.4,4.4b
MEX V 02 13 55 38.8–.42 30.76N 105.63W 5 4.4,4.4b
ISC Event type fe.
IDC Error ellipse: s-maj=17.3km s-min=6.5km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=193.0. Felt at Ciudad Juarez. Felt [II] at El Paso, Texas. Also felt at San Elizario and Sierra Blanca. Moment Tensor Solution. $M_0$2.80000×10^{15}
MEX Error ellipse: s-maj=4.3km s-min=4.6km az=-1.0.
ISC V 03 02 58 30.1–.61 30.83N–.03 105.68W–.03 10 130 1-74
ISCJB V 03 02 58 28.0–.26 30.72N–.03 105.68W–.02 10 3.9b ¶16488872
IDC V 03 02 58 28.5–.90 30.77N 105.78W 0 4.0,4.0b
NEIC V 03 02 58 30.2–.33 30.67N 105.73W 10 4.0b,3.8W
MEX V 03 02 58 30.6–.27 30.88N 105.49W 20–9 4.5,3.8W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.2km s-min=2.5km az=8.4.
IDC Error ellipse: s-maj=20.0km s-min=6.6km az=47.0.
NEIC Event type fe. Error ellipse: s-maj=5.1km s-min=3.2km az=188.0. Felt at El Paso, Texas. Moment Tensor Solution. s55 Moment tensor: Scale 10^{14}Nm; M_{rr}-5.49 $M_{\theta\theta}$-0.40 $M_{\phi\phi}$5.90 $M_{r\theta}$-1.75 $M_{\theta\phi}$-2.05 $M_{\theta r}$-3.03 Best double couple: NP1:ϕ_s142.00000°,δ38.00000°,λ-126.00000°. NP2:ϕ_s5.00000°,δ60.00000°,λ-65.00000°. Principal axes: T 7.0000,Plg12.0000° ,Azm77.0000°; N 0.0000,Plg21.0000°,Azm172.0000°; P -7.0000,Plg65.0000°,Azm321.0000° $M_0$7.00000×10^{14}
MEX Error ellipse: s-maj=3.1km s-min=4.0km az=-1.0.
MEX V 03 05 35 12.5–.28 31.20N 105.81W 5 4.1
¶602597593
MEX Error ellipse: s-maj=13.5km s-min=8.8km az=-1.0.
MEX V 03 11 42 04.9–.59 30.53N 105.42W 7–26 4.1
NEIC V 03 11 42 03.8–.93 30.49N 105.68W 10 2.8L ¶17330115
MEX Error ellipse: s-maj=13.4km s-min=20.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=11.2km az=144.0.
MEX V 04 02 21 15.1–.88 30.45N 105.13W 5 4.0
¶602597603
MEX Error ellipse: s-maj=10.6km s-min=14.3km az=-1.0.
ISC V 04 16 26 26.0–1.0 30.71N–.05 105.85W–.04 10 45 2-8
ISCJB V 04 16 26 25.4–.50 30.77N–.04 105.81W–.04 10 ¶16495931
NEIC V 04 16 26 27.0–.55 30.71N 105.79W 10 3.8L,3.7W
MEX V 04 16 26 28.1–.78 30.74N 105.65W 10 4.3,3.7W
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.5km az=7.6.
NEIC Event type se. Error ellipse: s-maj=8.1km s-min=6.0km az=177.0. Moment Tensor Solution. s23 Moment tensor: Scale 10^{14}Nm; M_{rr}-3.39 $M_{\theta\theta}$0.00 $M_{\phi\phi}$3.39 $M_{r\theta}$-0.71 $M_{\theta\phi}$-1.24 $M_{\theta r}$-1.96 Best double couple: NP1:ϕ_s144.00000°,δ36.00000°,λ-121.00000°. NP2:ϕ_s0.00000° ,δ60.00000°,λ-70.00000°. Principal axes: T 4.1700,Plg13.0000°,Azm76.0000° ; N 0.0000,Plg17.0000°,Azm170.0000°; P -4.1700,Plg68.0000°,Azm311.0000° $M_0$4.20000×10^{14}
MEX Error ellipse: s-maj=7.6km s-min=7.9km az=-1.0.
ISC V 05 05 20 08.9–.68 30.73N–.03 105.59W–.03 10 47 2-8
ISCJB V 05 05 20 09.1–.47 30.78N–.04 105.79W–.03 10 ¶602597614
MEX V 05 05 20 09.7–.42 30.65N 105.56W 5 4.4
NEIC V 05 05 20 10.0–.46 30.79N 105.76W 10 3.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=10.3.
MEX Error ellipse: s-maj=3.8km s-min=4.1km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.8km az=176.0.
MEX V 05 20 11 39.5–.28 30.82N 105.63W 8–10 4.2
¶602597620
MEX Error ellipse: s-maj=5.7km s-min=6.7km az=-1.0.
ISC V 06 00 24 23.3–.98 30.76N–.05 105.67W–.04 10 21 2-5
ISCJB V 06 00 24 24.4–.62 30.76N–.04 105.69W–.04 10 ¶602597621
NEIC V 06 00 24 26.1–.62 30.75N 105.73W 10 2.8L
MEX V 06 00 24 28.5–.55 30.72N 105.66W 10–11 4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=5.1km az=158.6.
NEIC Event type se. Error ellipse: s-maj=9.9km s-min=7.8km az=151.0.
MEX Error ellipse: s-maj=5.9km s-min=7.1km az=-1.0.
ISC V 06 00 45 57.9–.86 30.87N–.05 105.70W–.03 10 27 2-7
ISCJB V 06 00 45 57.7–.71 30.96N–.05 105.64W–.03 10 ¶16684748
NEIC V 06 00 45 59.3–1.1 30.81N 105.71W 10 2.8L
MEX V 06 00 46 03.5–.50 30.92N 105.68W 16–13 4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.1km az=172.1.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=9.0km az=172.0.
MEX Error ellipse: s-maj=10.8km s-min=10.4km az=-1.0.
MEX V 06 07 26 47.0–.52 30.63N 105.53W 5 3.9
¶602597625
MEX Error ellipse: s-maj=7.6km s-min=8.4km az=-1.0.
MEX V 06 12 56 42.1–.31 30.70N 105.43W 7–14 4.0
¶602597627
MEX Error ellipse: s-maj=10.6km s-min=13.1km az=-1.0.
ISC V 07 04 51 00.3–.52 30.67N–.03 105.80W–.02 10 3.7b 121 1-125
ISCJB V 07 04 50 59.0–.28 30.69N–.03 105.72W–.02 10 3.6b ¶16498618
IDC V 07 04 50 59.1–.73 30.76N 105.69W 0 4.0b,3.9
NEIC V 07 04 51 00.9–.39 30.64N 105.73W 10 4.1,3.9b
MEX V 07 04 51 01.6–.58 30.70N 105.59W 10 4.1,3.9b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.7km az=180.0.
IDC Error ellipse: s-maj=21.0km s-min=8.4km az=43.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.8km az=5.0. Felt [II] at Ciudad Juarez. Felt at El Paso, Texas.
MEX Error ellipse: s-maj=4.0km s-min=4.6km az=-1.0.
ISC V 08 13 24 46.3–.99 30.66N–.05 105.62W–.04 10 21 1-11
MEX V 08 13 24 46.4–.75 30.67N 105.10W 15 3.7 ¶602597649
ISCJB V 08 13 24 48.5–.56 30.70N–.04 105.82W–.07 10 3.7
NEIC V 08 13 24 49.6–.82 30.75N 105.81W 10 3.1L
ISC Event type se.
MEX Error ellipse: s-maj=9.8km s-min=10.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.8km az=170.6.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=8.2km az=176.0.
ISC V 08 13 46 14.9–.97 30.76N–.06 105.75W–.04 10 36 1-8
ISCJB V 08 13 46 15.2–.48 30.75N–.04 105.68W–.04 10 ¶602597650
NEIC V 08 13 46 16.5–.45 30.72N 105.76W 10 3.2L
MEX V 08 13 46 16.6–.98 30.68N 105.37W 15 3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.9km az=178.6.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=5.4km az=176.0.
MEX Error ellipse: s-maj=9.9km s-min=12.1km az=-1.0.
ISC V 08 13 57 58.9–.93 30.88N–.04 105.70W–.04 10 26 1-7
ISCJB V 08 13 57 58.6–.65 30.87N–.05 105.73W–.04 10 ¶602597651
NEIC V 08 13 57 58.5–.59 30.71N 105.75W 10 2.9L
MEX V 08 13 58 02.0–.32 30.91N 105.67W 9–9 3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.1km az=170.8.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.4km az=87.0.
MEX Error ellipse: s-maj=5.6km s-min=6.9km az=-1.0.
ISC V 08 19 07 38.5–1.1 31.01N–.06 105.79W–.04 10 19 2-7
NEIC V 08 19 07 32.1–1.4 30.81N 105.31W 10 3.0L ¶16713921
MEX V 08 19 07 34.6–.38 30.52N 105.15W 16–115 4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=23.1km s-min=10.2km az=166.0.
MEX Error ellipse: s-maj=41.8km s-min=112.1km az=-1.0.
ISC V 08 22 54 53.4–.78 30.36N–.03 105.48W–.03 10 41 1-7
MEX V 08 22 54 55.4–.61 30.49N 104.99W 20–74 4.0 ¶16500456
NEIC V 08 22 54 59.9–.79 30.74N 105.74W 10 3.3L
ISC Event type se.
MEX Error ellipse: s-maj=7.9km s-min=17.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.1km az=133.0.
ISC V 09 06 40 19.7–1.3 30.84N–.04 105.69W–.03 16–9 76 1-18
NEIC V 09 06 40 19.1–.39 30.76N 105.69W 10 3.9,3.8L ¶16719694
MEX V 09 06 40 19.8–.46 30.79N 105.62W 4–13 3.9,3.8L
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=6.1km s-min=4.1km az=178.0. Felt at El Paso, Texas.
MEX Error ellipse: s-maj=10.5km s-min=10.6km az=-1.0.
MEX V 10 14 34 33.1–1.3 30.32N 105.03W 13–154 3.9
¶602597680
MEX Error ellipse: s-maj=92.7km s-min=129.1km az=-1.0.
ISC V 10 18 41 17.0–.79 30.70N–.03 105.65W–.03 10 44 1-7
NEIC V 10 18 41 18.4–.81 30.72N 105.72W 10 3.4L ¶16719697
MEX V 10 18 41 19.9–.41 30.66N 105.42W 16–22 3.8
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.5km az=7.0.
MEX Error ellipse: s-maj=16.5km s-min=20.3km az=-1.0.
MEX V 13 04 28 28.7–.71 30.64N 105.36W 16–43 3.9
¶602597710
MEX Error ellipse: s-maj=33.1km s-min=42.2km az=-1.0.
ISC V 13 12 49 16.4–1.1 30.77N–.05 105.43W–.03 10 28 2-7
ISCJB V 13 12 49 14.6–.64 30.79N–.04 105.35W–.03 10 ¶602597714
NEIC V 13 12 49 16.3–1.2 30.76N 105.45W 10 2.6L
MEX V 13 12 49 18.5–.47 30.83N 105.30W 14–35 3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.8km az=168.2.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=11.0km az=171.0.
MEX Error ellipse: s-maj=10.8km s-min=37.7km az=-1.0.
MEX V 13 17 16 35.0–.71 30.80N 105.56W 11–23 3.8
¶602597717
MEX Error ellipse: s-maj=10.6km s-min=16.1km az=-1.0.
ISC V 14 22 07 48.8–1.0 30.74N–.05 105.77W–.04 10 40 1-15
MEX V 14 22 07 49.2–.97 30.57N 105.33W 15–64 3.9 ¶602597740
ISCJB V 14 22 07 50.0–.56 30.84N–.04 105.77W–.04 10 3.9
NEIC V 14 22 07 51.1–.62 30.82N 105.74W 10 3.9,3.7L
ISC Event type fe.
MEX Error ellipse: s-maj=47.3km s-min=57.9km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=152.9.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=6.2km az=162.0. Felt at El Paso, Texas.
ISC V 17 20 08 18.9–.77 30.79N–.04 105.77W–.03 10 51 1-19
ISCJB V 17 20 08 19.4–.50 30.78N–.04 105.78W–.04 10 ¶16725922
NEIC V 17 20 08 20.0–.60 30.75N 105.74W 10 4.2,4.1L
MEX V 17 20 08 22.2–1.1 30.81N 105.63W 10 4.2,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=169.3.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.8km az=192.0.
MEX Error ellipse: s-maj=9.9km s-min=10.7km az=-1.0.
ISC V 19 10 35 21.3–.81 30.72N–.03 105.70W–.04 10 37 1-7
ISCJB V 19 10 35 22.3–.49 30.70N–.04 105.62W–.04 10 ¶16722571
NEIC V 19 10 35 23.5–.56 30.80N 105.69W 10 3.4W
MEX V 19 10 35 26.6–.63 30.75N 105.44W 20–30 3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=5.1km az=154.5.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.9km az=181.0. Moment Tensor Solution. s13 Moment tensor: Scale 10^{14}Nm; M_{rr}-1.50 $M_{\theta\theta}$0.25 $M_{\phi\phi}$1.25 $M_{r\theta}$-0.12 $M_{\theta\phi}$-0.34 $M_{\theta r}$-0.63 Best double couple: NP1:ϕ_s154.00000°,δ35.00000°,λ-105.00000°. NP2:ϕ_s353.00000° ,δ57.00000°,λ-79.00000°. Principal axes: T 1.4600,Plg11.0000°,Azm75.0000° ; N 0.1900,Plg9.0000°,Azm167.0000°; P -1.6500,Plg76.0000°,Azm295.0000° $M_0$1.60000×10^{14}
MEX Error ellipse: s-maj=5.3km s-min=7.5km az=-1.0.
ISC V 19 11 56 47.3–.89 30.75N–.04 105.69W–.03 10 31 2-7
NEIC V 19 11 56 49.9–.99 30.72N 105.59W 10 2.9L ¶16722574
MEX V 19 11 56 53.1–.37 30.68N 105.51W 24–18 4.2
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=18.2km s-min=8.8km az=179.0.
MEX Error ellipse: s-maj=5.3km s-min=7.4km az=-1.0.
ISC V 25 10 03 00.8–.91 30.72N–.04 105.64W–.04 10 23 1-11

NEIC V 25 10 03 01.1–.45 30.70N 105.63W 10 2.8L ¶16543240
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.7km az=96.0.
ISC V 27 01 41 28.2–.72 30.82N–.04 105.71W–.03 10 110 1-11
ISCJB V 27 01 41 25.1–.33 30.80N–.04 105.66W–.02 10 ¶16873299
NEIC V 27 01 41 28.2–.59 30.80N 105.76W 10 3.6L
MEX V 27 01 41 29.2–.31 30.89N 105.64W 8–61 4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.7km az=4.9.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.2km az=169.0.
MEX Error ellipse: s-maj=8.7km s-min=64.8km az=-1.0.
ISC V 27 01 49 08.0–.81 31.03N–.04 105.72W–.03 10 45 1-7
ISCJB V 27 01 49 06.8–.59 31.14N–.04 105.72W–.04 10 ¶16577327
NEIC V 27 01 49 08.9–1.0 30.98N 105.78W 10 3.0L
MEX V 27 01 49 10.3–.33 31.11N 105.66W 9–91 4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.7km az=146.7.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=9.1km az=172.0.
MEX Error ellipse: s-maj=7.6km s-min=97.4km az=-1.0.
MEX V 29 21 34 03.4–.80 30.71N 105.57W 10 4.0
¶602597884
MEX Error ellipse: s-maj=7.7km s-min=8.7km az=-1.0.

(523) Central Mexico.

MEX II 02 23 02 42.8–.52 18.17N 98.14W 61–7 3.6
¶601136920
MEX Error ellipse: s-maj=2.4km s-min=2.2km az=-1.0.
MEX II 08 19 53 56.1–1.2 20.91N 99.40W 5 3.5
¶601136959
MEX Error ellipse: s-maj=56.5km s-min=49.2km az=-1.0.
MEX III 09 17 15 43.4–.27 18.36N 97.42W 72–3 3.7
¶601137209
MEX Error ellipse: s-maj=2.4km s-min=3.4km az=-1.0.
MEX III 26 17 08 15.1–.53 21.52N 99.22W 8–9 4.0
NEIC III 26 17 08 15.1 21.52N 99.22W 8 4.0 ¶16512198
MEX Error ellipse: s-maj=7.8km s-min=6.0km az=-1.0.
NEIC Event type se. After MEX.
MEX V 08 01 33 11.0–.51 18.12N 98.26W 60–6 3.5
¶602597646
MEX Error ellipse: s-maj=2.1km s-min=2.4km az=-1.0.
ISC VI 25 00 41 28.5–1.7 21.32N–.03 99.40W–.04 5–12 4.3b 60 1-55
MEX VI 25 00 41 29.7–.87 21.32N 99.36W 8 4.4 ¶16681351
NEIC VI 25 00 41 30.3–.48 21.35N 99.46W 10 4.2b,4.2
IDC VI 25 00 41 34.5–3.8 21.44N 99.13W 35–33 3.6,3.5
ISC Event type fe.
MEX Error ellipse: s-maj=7.4km s-min=8.6km az=-1.0.
NEIC Event type fe. Error ellipse: s-maj=9.2km s-min=6.7km az=98.0. Felt at Queretaro and San Juan del Rio.
IDC Error ellipse: s-maj=64.1km s-min=18.1km az=50.0.
ISC VI 25 04 31 24.0–1.2 21.24N–.03 99.36W–.03 10–8 4.1b 244 1-131
MEX VI 25 04 31 21.1–.78 21.56N 98.95W 16–86 4.3 ¶16731417
IDC VI 25 04 31 22.7–1.3 21.29N 99.31W 0 3.9,3.8
NEIC VI 25 04 31 23.2–1.3 21.25N 99.31W 3–10 4.3,4.1b
ISC Event type se.
MEX Error ellipse: s-maj=67.7km s-min=50.5km az=-1.0.
IDC Error ellipse: s-maj=41.4km s-min=15.5km az=53.0.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=4.5km az=76.0.
ISC VI 27 08 05 47.7–1.3 21.44N–.03 99.28W–.05 9–10 41 1-20
ISCJB VI 27 08 05 49.3–1.7 21.41N–.05 99.26W–.06 13–13 ¶602598183
MEX VI 27 08 05 49.2–.91 21.48N 99.22W 8 4.0
NEIC VI 27 08 05 49.2 21.48N 99.22W 8 4.0,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=6.8km az=145.6.
MEX Error ellipse: s-maj=15.9km s-min=15.3km az=-1.0.
NEIC Event type se. After MEX.
MEX VI 29 12 46 30.7–.79 21.23N 99.47W 31–40 3.8
¶602598202
MEX Error ellipse: s-maj=24.4km s-min=20.7km az=-1.0.

(524) Jalisco.

MEX I 11 09 55 57.5–.74 19.35N 103.74W 94–5 4.3
NEIC I 11 09 55 57.5 19.35N 103.74W 94 4.3 ¶16158960
MEX Error ellipse: s-maj=3.8km s-min=4.9km az=-1.0.
NEIC Event type se. After MEX.
MEX III 10 22 48 32.4–.29 19.39N 104.00W 11–3 3.6
¶601137221
MEX Error ellipse: s-maj=3.3km s-min=5.9km az=-1.0.
MEX V 02 04 24 03.2–.73 19.09N 103.05W 62–14 3.8
¶602597586
MEX Error ellipse: s-maj=3.7km s-min=5.3km az=-1.0.
MEX V 15 16 00 19.4–.81 20.01N 104.02W 8–9 3.8
¶602597751
MEX Error ellipse: s-maj=3.0km s-min=4.4km az=-1.0.
MEX VI 01 08 14 27.3–.49 20.77N 104.74W 16–10 3.6
¶602597896
MEX Error ellipse: s-maj=3.4km s-min=15.5km az=-1.0.

(525) Veracruz.

MEX II 06 08 50 42.3–1.0 19.27N 97.44W 20–348 3.8
¶601136943
MEX Error ellipse: s-maj=8.4km s-min=7.5km az=-1.0.
MEX II 10 03 52 30.0–.75 19.20N 97.44W 5 3.8
¶601136974
MEX Error ellipse: s-maj=5.8km s-min=4.4km az=-1.0.
MEX IV 11 23 08 47.5–.53 18.00N 96.68W 84–6 3.7
¶602596100
MEX Error ellipse: s-maj=3.7km s-min=4.1km az=-1.0.
MEX V 13 00 33 43.2–.36 18.82N 96.42W 31–9 4.0
NEIC V 13 00 33 43.3 18.84N 96.43W 27 4.0 ¶602597704
MEX Error ellipse: s-maj=3.8km s-min=6.8km az=-1.0.
NEIC Event type se. After MEX.
MEX V 14 02 26 23.1–.61 18.84N 96.59W 18–36 3.7
¶602597725
MEX Error ellipse: s-maj=3.7km s-min=5.1km az=-1.0.
MEX V 20 21 54 27.1–.56 19.29N 96.11W 16–24 3.9
¶602597810
MEX Error ellipse: s-maj=2.0km s-min=4.4km az=-1.0.

(527) Bay of Campeche.

ISC I 23 05 46 15.3–.54 19.39N–.04 92.08W–.04 10 4.5b 137 1-116
IDC I 23 05 46 12.6–1.4 19.32N 91.97W 0 4.0,3.7 ¶15959236
ISCJB I 23 05 46 14.2–.28 19.35N–.03 92.17W–.03 10 4.3b,3.7
MEX I 23 05 46 16.1–.39 19.50N 92.12W 10 4.3,3.7
NEIC I 23 05 46 16.2–.31 19.30N 92.11W 10 4.4b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=35.9km s-min=24.6km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.6km az=149.9.
MEX Error ellipse: s-maj=3.5km s-min=4.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.1km az=41.0.
MEX II 10 12 29 58.6–.80 19.47N 92.19W 15–25 4.0
NEIC II 10 12 29 58.6 19.47N 92.19W 15 4.0 ¶16358570
MEX Error ellipse: s-maj=17.3km s-min=13.2km az=-1.0.
NEIC Event type se. After MEX.
MEX III 08 19 09 36.3–.51 18.16N 94.58W 34–5 4.2
NEIC III 08 19 09 36.3 18.16N 94.58W 34 4.2 ¶16484582
MEX Error ellipse: s-maj=5.4km s-min=3.3km az=-1.0.
NEIC Event type se. After MEX.

SEISMIC REGION 35.
Eastern South America.

(528) Brazil.

ISC I 08 11 49 21.8–.69 13.51S–.06 49.05W–.06 10 3.8b 17 2-147
ISCJB I 08 11 49 19.5–.58 13.41S–.04 49.09W–.05 10 3.6b ¶17189695
IDC I 08 11 49 21.9–.97 13.55S 48.95W 0 4.1L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.9km s-min=6.4km az=172.2.
IDC Error ellipse: s-maj=26.4km s-min=17.7km az=54.0.
ISC V 18 19 13 38.9–.81 14.65S–.08 56.24W–.06 10 11 5-64
ISCJB V 18 19 13 36.6–.71 14.81S–.10 56.18W–.05 10 3.9b ¶17203902
IDC V 18 19 13 38.6–1.4 14.78S 56.27W 0 4.1,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.4km s-min=6.5km az=177.3.
IDC Error ellipse: s-maj=37.4km s-min=20.3km az=171.0.

SEISMIC REGION 36.
Northwestern Europe.

(533) United Kingdom.

ISC I 03 21 03 07.0–.79 54.22N–.02 1.48W–.03 25–6 321 0-51
NAO I 03 21 03 06.8–6.0 54.27N 1.11W 2.8L ¶15902942
CSEM I 03 21 03 06.3–.12 54.18N 1.45W 10 3.6L
IDC I 03 21 03 06.6–1.6 54.26N 1.46W 0 3.4,3.4b
LDG I 03 21 03 08.6–.14 54.13N 1.53W 10 3.7L,3.4b
NEIC I 03 21 03 09.4 54.17N 1.65W 6 3.6L,3.4b
BGS I 03 21 03 28.8–1.1 54.17N 1.65W 7 2.6L,3.4b
ISC Event type fe.
NAO Error ellipse: s-maj=0.6km s-min=0.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=82.0.
IDC Error ellipse: s-maj=25.3km s-min=13.0km az=36.0.
LDG Event type ke. Error ellipse: s-maj=4.0km s-min=2.7km az=61.0.
NEIC Event type fe. Felt [III] at Bedale, Bingley, Boroughbridge, Harrogate, Leyburn, Northallerton, Ripon, Settle and Thirsk; [II] at Baildon, Batley, Bradford, Halifax, Hebden Bridge, Huddersfield, Ilkley, Keighley, Kendal, Hull, Leeds, Newcastle, Skipton, Stockton-on-Tees, Wakefield and York. Felt widely in northern England. After BGS.
BGS Error ellipse: s-maj=14.0km s-min=33.6km az=-1.0.
IDC I 10 16 00 19.0–665 57.48N 1.27W 0
¶17189868
IDC Error ellipse: s-maj=373.9km s-min=224.2km az=111.0.
ISC I 23 06 02 47.6–.82 56.80N–.02 5.54W–.03 18–3 243 0-15
CSEM I 23 06 02 45.7–.28 56.70N 5.86W 10 3.5L ¶15959238
LDG I 23 06 02 47.9–.07 56.81N 5.76W 16 3.8L
BGS I 23 06 02 49.3–.82 56.82N 5.78W 16–4 3.5L
NEIC I 23 06 02 49.3 56.82N 5.78W 16 3.5L
BER I 23 06 02 49.7–.69 56.82N 5.83W 13–3 3.2,3.1L
NAO I 23 06 02 52.4–6.6 56.94N 5.26W 21–25 3.2,3.1L
ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=8.6km s-min=3.1km az=92.0.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=1.0km az=83.0.
BGS Error ellipse: s-maj=1.9km s-min=7.0km az=-1.0.
NEIC Event type fe. Felt [IV] in the Fort William area. Felt throughout the Inverness-Oban-Kyle of Lochalsh area and in much of central Scotland. After BGS.
BER Error ellipse: s-maj=1.8km s-min=6.0km az=-1.0.
NAO Error ellipse: s-maj=0.1km s-min=0.5km az=-1.0.
IDC III 01 14 19 48.7–582 55.14N 1.45W 0
¶17193075
IDC Error ellipse: s-maj=411.9km s-min=193.4km az=136.0.
BGS III 21 12 33 12.1–.48 52.41N 2.18W 8–10 1.3L
CSEM III 21 12 33 12.1 52.41N 2.18W 8 1.3L ¶16499016
BGS Error ellipse: s-maj=1.1km s-min=2.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 23 13 43 37.0–.94 50.52N–.02 3.66W–.02 19–3 174 0-8
ISCJB VI 23 13 43 36.1–.61 50.45N–.02 3.53W–.06 18–8 ¶16646400
CSEM VI 23 13 43 37.2–.10 50.50N 3.66W 15 3.4L
LDG VI 23 13 43 37.4–.10 50.58N 3.75W 10 3.4L,3.1
NEIC VI 23 13 43 38.1 50.57N 3.73W 3 2.7L,3.1
BGS VI 23 13 43 38.1–.46 50.57N 3.73W 3–4 2.7L,3.1
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=3.5km az=168.0.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=1.9km az=64.0.
LDG Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=62.0.
NEIC Event type fe. Felt [IV] in Devon. After BGS.
BGS Error ellipse: s-maj=1.9km s-min=2.3km az=-1.0.

(534) North Sea.

IDC I 04 12 10 45.5–709 54.18N 3.83E 0
¶17189420
IDC Error ellipse: s-maj=311.7km s-min=142.4km az=119.0.
IDC I 10 09 28 19.0–676 55.19N 0.08W 0
¶17189835
IDC Error ellipse: s-maj=370.4km s-min=214.0km az=106.0.
IDC I 10 09 41 34.9–719 55.01N 0.09W 0
¶17189837
IDC Error ellipse: s-maj=386.6km s-min=210.6km az=105.0.
IDC II 01 09 20 42.7–808 55.23N 2.37E 0
¶17191467
IDC Error ellipse: s-maj=456.1km s-min=169.8km az=132.0.
IDC II 02 10 41 55.2–510 55.33N 0.68W 0
¶17191537
IDC Error ellipse: s-maj=327.4km s-min=167.0km az=124.0.
IDC II 02 15 39 28.5–995 54.96N 3.15E 0
¶17191551
IDC Error ellipse: s-maj=429.1km s-min=167.3km az=115.0.
IDC II 10 11 58 07.2–469 54.95N 0.10E 0
¶17192010
IDC Error ellipse: s-maj=333.0km s-min=190.3km az=117.0.
IDC II 14 14 54 25.3–604 56.48N 0.17W 0
¶17192246
IDC Error ellipse: s-maj=339.7km s-min=211.8km az=110.0.
IDC II 17 14 54 40.6–999 57.80N 2.17E 0
¶17192427
IDC Error ellipse: s-maj=434.8km s-min=203.3km az=115.0.
IDC II 17 15 15 57.0–999 57.35N 2.17E 0
¶17192428
IDC Error ellipse: s-maj=551.0km s-min=239.2km az=102.0.
IDC II 22 15 12 15.7–711 57.81N 0.27W 0
¶17192710
IDC Error ellipse: s-maj=380.9km s-min=208.1km az=113.0.
IDC II 23 13 21 43.8–710 56.34N 7.28E 0
¶17192745
IDC Error ellipse: s-maj=301.5km s-min=158.5km az=132.0.
IDC II 24 11 39 16.8–587 55.89N 0.03E 0
¶17192786
IDC Error ellipse: s-maj=330.8km s-min=196.9km az=111.0.
IDC II 24 15 48 26.8–661 54.07N 1.73E 0
¶17192792
IDC Error ellipse: s-maj=351.6km s-min=184.2km az=107.0.
IDC II 24 15 59 32.6–623 54.28N 1.42E 0
¶17192794
IDC Error ellipse: s-maj=339.2km s-min=187.6km az=107.0.
IDC II 28 22 09 14.4–712 54.66N 0.10E 0
¶17193024
IDC Error ellipse: s-maj=378.5km s-min=195.7km az=105.0.
IDC III 01 15 46 40.4–756 56.72N 6.51E 0
¶17193079
IDC Error ellipse: s-maj=324.3km s-min=165.0km az=130.0.
IDC III 01 18 16 22.0–429 55.21N 0.02E 0
¶17193087
IDC Error ellipse: s-maj=297.7km s-min=173.7km az=123.0.
IDC III 01 19 36 55.6–712 54.68N 0.07E 0
¶17193093

IDC Error ellipse: s-maj=379.3km s-min=188.3km az=107.0.
IDC III 02 14 55 55.6–738 54.98N 6.70E 0
¶17193144

IDC Error ellipse: s-maj=321.1km s-min=143.2km az=130.0.
IDC III 02 16 26 50.2–609 55.11N 0.16E 0
¶17193148

IDC Error ellipse: s-maj=342.1km s-min=188.4km az=111.0.
IDC III 02 17 53 15.6–999 54.32N 1.04E 0
¶17193154

IDC Error ellipse: s-maj=513.9km s-min=137.6km az=118.0.
IDC III 08 19 16 16.4–487 56.04N 7.25E 0
¶17193487

IDC Error ellipse: s-maj=321.8km s-min=208.7km az=142.0.
IDC III 08 19 19 54.4–581 56.60N 0.55W 0
¶17193488

IDC Error ellipse: s-maj=351.7km s-min=171.2km az=99.0.
IDC III 22 15 22 15.8–999 54.54N 1.50E 0
¶17197884

IDC Error ellipse: s-maj=494.5km s-min=139.5km az=120.0.
IDC III 31 10 40 45.6–949 54.00N 4.61E 0
¶17199286

IDC Error ellipse: s-maj=402.9km s-min=158.7km az=117.0.

(536) Sweden.

ISC I 13 04 51 40.1–.93 65.79N–.01 22.09E–.02 11–7 244 0-13
NAO I 13 04 51 38.7–.70 65.78N 22.14E 2.7L ¶15962863
IDC I 13 04 51 39.4–.79 65.81N 22.50E 0 2.9,2.9
ISCJB I 13 04 51 39.4–.58 65.81N–.02 22.05E–.05 12–4 2.9,2.9
UPP I 13 04 51 40.3–.10 65.81N 22.11E 7–1 2.0L,2.9
CSEM I 13 04 51 40.2–.09 65.82N 22.10E 10 2.0L,2.9
HEL I 13 04 51 40.5–.10 65.81N 22.13E 10–1 2.4L,2.3L
BER I 13 04 51 40.4–3.7 65.79N 22.19E 0–9 2.8,2.7L
ISC Event type ke.
IDC Error ellipse: s-maj=13.7km s-min=6.8km az=101.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=20.5.
UPP Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Probable volcanic.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=108.0.
HEL Error ellipse: s-maj=0.5km s-min=0.6km az=-1.0.
BER Error ellipse: s-maj=4.7km s-min=12.7km az=-1.0.
IDC II 01 17 01 00.7–666 56.27N 13.32E 0
¶17191495

IDC Error ellipse: s-maj=220.8km s-min=157.7km az=167.0.
ISC II 27 14 38 37.3–1.1 64.25N–.02 20.53E–.02 1–10 92 0-6
CSEM II 27 14 38 37.5–.16 64.27N 20.53E 2 2.1L ¶17192954
UPP II 27 14 38 37.9–.20 64.24N 20.52E 2–3 2.0L
HEL II 27 14 38 38.4–.10 64.24N 20.52E 2–0 2.1L,2.0L
IDC II 27 14 38 38.1–.85 64.26N 20.59E 0 2.7,2.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=123.0.
UPP Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Probable volcanic.
HEL Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0.
IDC Error ellipse: s-maj=9.8km s-min=7.9km az=103.0.
ISC III 25 23 17 06.1–.89 61.87N–.01 17.04E–.02 7–7 138 0-5
CSEM III 25 23 17 06.2–.17 61.86N 17.11E 2 1.7L ¶16360601
ISCJB III 25 23 17 06.3–.48 61.87N–.02 17.12E–.05 9–3 1.7L
HEL III 25 23 17 06.9–.10 61.86N 17.05E 6 1.8L,1.7L
UPP III 25 23 17 06.5–.10 61.87N 17.07E 6–1 1.7L,1.7L
NAO III 25 23 17 06.7–1.4 61.63N 17.20E 1.6L,1.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=106.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=4.8.
HEL Error ellipse: s-maj=0.4km s-min=0.5km az=-1.0.
UPP Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Probable volcanic.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
ISC III 27 11 34 18.7–1.0 59.99N–.02 12.86E–.02 16–9 113 0-11
NAO III 27 11 34 19.5–1.0 59.96N 12.79E 10–8 2.0L ¶16389103
ISCJB III 27 11 34 19.9–.48 60.02N–.03 12.78E–.04 23–5 2.0L
CSEM III 27 11 34 19.8–.12 60.01N 12.77E 15 1.9L
IDC III 27 11 34 21.0–1.2 60.12N 12.90E 0 3.6,3.5
BER III 27 11 34 20.0–2.9 59.98N 12.87E 4–6 3.1,2.0L
UPP III 27 11 34 20.6–.20 59.99N 12.88E 21–1 1.9L,2.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=1.3.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=174.0.
IDC Error ellipse: s-maj=13.6km s-min=4.8km az=16.0.
BER Error ellipse: s-maj=4.4km s-min=5.7km az=-1.0.
UPP Error ellipse: s-maj=0.0km s-min=0.0km az=-1.0. Probable volcanic.

(538) France.

ISC I 27 06 04 14.2–1.0 49.98N–.02 1.80W–.02 31–11 171 1-7
CSEM I 27 06 04 13.2–.12 49.94N 1.82W 15 3.3L ¶16002315
BGS I 27 06 04 13.9–.86 50.00N 1.91W 5–7 2.5L
LDG I 27 06 04 14.2–.10 49.92N 1.95W 10 3.3L,3.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=66.0.
BGS Error ellipse: s-maj=1.3km s-min=4.9km az=-1.0.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=175.0.
ISC II 05 00 39 38.7–.60 45.88N–.01 1.42W–.02 7–4 411 1-10
CSEM II 05 00 39 39.3–.10 45.88N 1.42W 2 3.9L ¶16006251
LDG II 05 00 39 41.1–.06 45.89N 1.47W 2 3.9,3.9L
INMG II 05 00 39 43.4–.80 46.02N 1.46W 31 2.7L,3.9L
STR II 05 00 39 44.4–.13 45.71N 1.19W 5 3.9L,3.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=122.0.
LDG Event type ke. Error ellipse: s-maj=1.4km s-min=1.0km az=122.0.
INMG Event type ke. Error ellipse: s-maj=9.6km s-min=5.5km az=115.0.
STR Event type ke.
ISC II 19 06 14 29.8–1.0 47.11N–.01 1.53E–.01 15–9 294 1-4
CSEM II 19 06 14 29.5–.08 47.12N 1.54E 5 3.6L ¶16158807
LDG II 19 06 14 31.2–.04 47.11N 1.53E 4 3.6,3.5L
STR II 19 06 14 32.8–.28 47.07N 1.75E 5 3.3L,3.5L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=16.0.
LDG Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=179.0.
STR Event type ke.
ISC III 07 20 45 49.9–.79 49.71N–.02 3.69E–.02 17–8 224 0-6
CSEM III 07 20 45 50.2–.09 49.69N 3.70E 10 2.9L ¶16294212
LDG III 07 20 45 50.6–.09 49.76N 3.73E 2 2.9,2.9L
STR III 07 20 45 51.3–.37 49.67N 3.81E 2 3.0L,2.9L
UCC III 07 20 45 52.7–.27 49.76N 3.81E 18–1 2.3L,2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=127.0.
LDG Event type ke. Error ellipse: s-maj=1.8km s-min=1.4km az=155.0.
STR Event type ke.
UCC Event type ke.
LDG III 09 21 19 44.1–.08 45.55N 6.90E 2 1.6,1.5L
GEN III 09 21 19 44.7 45.57N 6.92E 9 0.6L,1.5L ¶16321864
CSEM III 09 21 19 44.0–.10 45.56N 6.86E 10 1.2L,1.5L
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=90.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=156.0.
LDG III 11 21 43 50.8–.11 45.47N 7.00E 2 1.4,1.1L
CSEM III 11 21 43 50.8 45.47N 7.00E 2 1.1L,1.1L ¶16322233
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=60.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 17 10 01 13.9–1.1 44.30N–.02 1.61W–.02 2–10 159 1-5
CSEM III 17 10 01 14.3–.13 44.31N 1.59W 2 2.9L ¶16349062
LDG III 17 10 01 16.1–.07 44.29N 1.64W 2 2.9L
MDD III 17 10 01 16.8–1.2 44.25N 1.59W 0 2.0
STR III 17 10 01 16.3–.65 42.51N 2.16W 5 2.9L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=93.0.
LDG Event type ke. Error ellipse: s-maj=1.7km s-min=1.1km az=101.0.
MDD Error ellipse: s-maj=11.1km s-min=8.1km az=20.0. PRXIMO.
STR Event type ke.
ISC III 17 16 08 51.7–.82 44.48N–.02 6.91E–.02 14–6 77 0-2
CSEM III 17 16 08 51.5–.07 44.48N 6.90E 15 2.4L ¶16331395
ROM III 17 16 08 52.4–.31 44.50N 6.97E 10–1 2.2,1.7L
LDG III 17 16 08 52.1–.04 44.49N 6.92E 2 2.7,2.6L
GEN III 17 16 08 52.1 44.47N 6.90E 5 1.7L,2.6L
ISCJB III 17 16 08 52.3–.31 44.48N–.02 6.94E–.03 15–6 1.7L,2.6L
ISC Event type ke.
CSEM Event type ke.
ROM Event type ke.
LDG Event type ke.
ISCJB Event type ke.
LDG IV 02 23 23 23.7–.08 44.10N 6.89E 2 1.6,1.3L
CSEM IV 02 23 23 23.7 44.10N 6.89E 2 1.3L,1.3L ¶16414368
LDG Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=80.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 06 07 29 50.8–.47 43.08N–.01 0.03E–.01 14–3 354 0-7
CSEM IV 06 07 29 50.7–.08 43.10N 0.02E 10 3.2L ¶16410407
MRB IV 06 07 29 51.6 42.98N 0.02W 4–2 2.7L
MDD IV 06 07 29 51.8–.20 43.03N 0.02E 8–3 3.0
LDG IV 06 07 29 51.7–.05 43.05N 0.02E 6 3.3L,3.0
STR IV 06 07 29 52.1–.06 43.03N 0.02W 3 2.7L,3.0
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=167.0.
MRB Event type ke. Error ellipse: s-maj=1.1km s-min=0.3km az=56.0.
MDD Error ellipse: s-maj=2.4km s-min=1.5km az=0.0. PRXIMO.
LDG Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=163.0.
STR Event type ke.
ISC IV 13 02 51 45.7–.78 45.80N–.02 0.22W–.02 17–4 156 0-4
CSEM IV 13 02 51 44.9–.11 45.82N 0.21W 10 2.7L ¶16450332
LDG IV 13 02 51 46.3–.05 45.81N 0.21W 4 2.8,2.7L
STR IV 13 02 51 46.1–.37 45.93N 0.19W 2.8L,2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.9km az=65.0.
LDG Event type ke. Error ellipse: s-maj=1.1km s-min=0.8km az=65.0.
STR Event type ke.
ISC IV 16 23 49 28.2–.45 44.28N–.01 6.21E–.01 17–2 359 1-6
ISCJB IV 16 23 49 27.4–.21 44.31N–.01 6.15E–.02 13–2 ¶16450354
MDD IV 16 23 49 28.7–.65 44.26N 6.22E 17–6 3.7b
CSEM IV 16 23 49 28.4–.09 44.29N 6.20E 12 2.7L
STR IV 16 23 49 29.6–.08 44.27N 6.22E 4 2.8L
GEN IV 16 23 49 29.5 44.29N 6.22E 1 2.4L
LDG IV 16 23 49 29.2–.04 44.27N 6.25E 3 3.1,2.8L
ROM IV 16 23 49 30.2–.49 44.28N 6.32E 10 2.7,2.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=135.7.
MDD Error ellipse: s-maj=4.4km s-min=3.8km az=91.0. PRXIMO.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=26.0.
STR Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.0km s-min=0.8km az=75.0.
ROM Event type ke. Error ellipse: s-maj=6.4km s-min=3.0km az=63.0.
ISC V 05 18 44 56.1–.95 47.92N–.01 6.50E–.01 17–2 260 0-6
ISCJB V 05 18 44 53.3–.19 47.91N–.01 6.41E–.01 8–2 ¶16504042
STR V 05 18 44 54.1–.07 47.94N 6.38E 8 2.7L
CSEM V 05 18 44 54.8–.09 47.89N 6.45E 19–1 2.9L
LDG V 05 18 44 55.9–.06 47.91N 6.49E 15 2.9,2.9L
BGR V 05 18 44 55.7–.77 47.92N 6.47E 10 2.5L,2.9L
BNS V 05 18 44 58.2–.32 47.94N 6.44E 4 2.3L,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=147.1.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.5km az=142.0.
LDG Event type ke. Error ellipse: s-maj=1.3km s-min=1.0km az=137.0.
BGR Event type ke. Error ellipse: s-maj=6.7km s-min=3.3km az=64.0.
BNS Event type ke.
LDG V 13 23 31 26.5–.08 45.56N 6.92E 2 1.8,1.6L
CSEM V 13 23 31 25.6–.11 45.58N 6.91E 12 1.4L,1.6L ¶601614898
GEN V 13 23 31 26.2 45.61N 6.92E 4 0.8L,1.6L
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=78.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=154.0.
LDG VI 12 16 30 59.0–.07 44.54N 6.41E 25 1.5L,1.4
CSEM VI 12 16 30 57.5–.12 44.49N 7.27E 10 1.5L,1.4 ¶601615068
GEN VI 12 16 30 58.2 44.47N 7.25E 13 1.0L,1.4
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.2km az=92.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=72.0.
ISC VI 15 17 21 18.3–.81 44.48N–.01 6.86E–.02 13–5 162 0-4
CSEM VI 15 17 21 17.9–.11 44.47N 6.85E 2 2.8L ¶16658667
ROM VI 15 17 21 17.8–.34 44.46N 6.88E 7–2 2.5,2.3L
ISCJB VI 15 17 21 17.6–.23 44.47N–.01 6.87E–.02 10–3 2.5,2.3L
GEN VI 15 17 21 18.1 44.48N 6.87E 11 2.1L,2.3L
LDG VI 15 17 21 18.4–.05 44.49N 6.88E 2 2.8,2.7L
STR VI 15 17 21 18.5–.11 44.49N 6.92E 5 2.6L,2.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.8km az=48.0.
ROM Event type ke. Error ellipse: s-maj=3.5km s-min=1.5km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=148.9.
LDG Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=50.0.
STR Event type ke.
ISC VI 15 19 50 37.0–.83 44.47N–.01 6.85E–.02 13–6 183 0-6
GEN VI 15 19 50 36.9 44.47N 6.87E 0 2.0L ¶16603761
ROM VI 15 19 50 36.7–.43 44.47N 6.87E 7–2 2.5,2.2L
ISCJB VI 15 19 50 36.6–.23 44.46N–.01 6.85E–.02 12–2 2.5,2.2L
LDG VI 15 19 50 37.5–.06 44.49N 6.89E 2 2.7,2.5L
STR VI 15 19 50 37.8–.13 44.50N 6.97E 5 2.5L,2.5L
CSEM VI 15 19 50 37.0–.11 44.47N 6.85E 5 2.6L,2.5L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=4.4km s-min=1.9km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=148.9.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=44.0.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.0km az=47.0.

(541) Belgium.

ISC V 09 16 34 20.0–.71 50.84N–.01 5.71E–.01 14 228 0-5
ISCJB V 09 16 34 20.3–.24 50.83N–.01 5.76E–.02 14 ¶16502523
IASPE V 09 16 34 20.9–.88 50.85N–.02 5.71E–.01 24–4
CSEM V 09 16 34 20.5–.16 50.82N 5.72E 15 2.7L
BGR V 09 16 34 20.8–.52 50.85N 5.69E 22–0 2.2L
LDG V 09 16 34 21.3–.18 50.82N 5.74E 21 2.7,2.5L
UCC V 09 16 34 21.9 50.84N 5.69E 20 1.9L,2.5L
BNS V 09 16 34 22.4–.68 50.87N 5.80E 18–3 1.9L,2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=164.4.
IASPE Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=155.7. GT5 selection from ISC bulletin. GT5 identified by Bond˜¡r and McLaughlin (2009) selection criteria. Bond˜¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.5km az=159.0.
BGR Event type ke. Error ellipse: s-maj=6.7km s-min=3.3km az=90.0.
LDG Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=159.0.
UCC Event type ke.
BNS Event type ke.
UCC VI 12 02 33 49.8 50.47N 5.81E 19 -0.1L
CSEM VI 12 02 33 49.5–.09 50.48N 5.82E 15 -0.1L ¶602729132
UCC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=115.0.
UCC VI 12 02 34 18.7 50.48N 5.80E 19 0.3L
CSEM VI 12 02 34 18.8–.07 50.48N 5.80E 10 0.3L ¶602729129
UCC Event type ke.

CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.2km az=76.0.
UCC VI 13 00 16 07.5 50.44N 5.94E 16 1.2L
CSEM VI 13 00 16 06.6–.15 50.45N 5.95E 19 1.9L ¶16596666
LDG VI 13 00 16 07.2–.06 50.46N 5.96E 17 2.2,2.0L
UCC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=53.0.
LDG Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=5.0.

(543) Germany.

IDC I 04 14 41 48.9–528 48.06N 11.04E 0
¶17189429

IDC Error ellipse: s-maj=186.2km s-min=41.7km az=65.0.
IDC I 04 14 52 11.2–578 48.58N 11.05E 0
¶17189432

IDC Error ellipse: s-maj=200.4km s-min=39.2km az=81.0.
ISC I 27 01 24 16.8–.41 47.55N–.01 9.832E–.01 10 486 0-8
STR I 27 01 24 15.7–.24 47.42N 9.85E 5 3.3L ¶15970230
ISCJB I 27 01 24 15.1–.13 47.579N–.01 9.88E–.01 10 3.3L
ROM I 27 01 24 17.5–.30 47.56N 9.80E 22–2 3.0L,2.9
CSEM I 27 01 24 17.4–.09 47.52N 9.87E 15 3.7L,2.9
PRU I 27 01 24 17.8 47.56N 9.88E 31 3.7L,2.9
LDG I 27 01 24 17.5–.08 47.59N 9.92E 30 3.2L,3.0
ZUR I 27 01 24 18.1 47.48N 9.84E 31–0 3.3L,3.0
BGR I 27 01 24 18.4–.16 47.53N 9.83E 20–0 3.1L,3.0
VIE I 27 01 24 19.0–.37 47.50N 9.92E 14–2 3.5L,2.8b
ISC Event type ke.
STR Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.4km s-min=1.2km az=172.3.
ROM Event type ke. Error ellipse: s-maj=3.4km s-min=1.9km az=7.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=1.0.
LDG Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=158.0.
ZUR Event type ke.
BGR Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=5.0.
VIE Event type fe. Error ellipse: s-maj=2.8km s-min=1.6km az=153.0. felt 4 ems98 in Northern Bregenzerwald / Vorarlberg.
IDC I 27 17 16 27.8–999 48.62N 11.86E 0
¶17191132

IDC Error ellipse: s-maj=726.6km s-min=33.1km az=78.0.
WBNET I 29 02 55 05.2 50.23N 12.44E 8 0.3L
PRU I 29 02 55 04.5 50.26N 12.44E 10 0.3L ¶15995056
PRU West Bohemia.
WBNET I 29 03 26 17.7 50.23N 12.44E 8 0.7L
PRU I 29 03 26 16.8 50.24N 12.41E 10 0.7L ¶15995059
PRU West Bohemia.
ISC II 14 12 50 42.0–.67 50.33N–.01 7.77E–.01 13 354 0-7
ISCJB II 14 12 50 40.7–.17 50.33N–.01 7.90E–.02 13 ¶16024758
CSEM II 14 12 50 41.8–.11 50.33N 7.84E 12 3.6L
BGR II 14 12 50 42.7–.20 50.37N 7.88E 10 3.1L
LDG II 14 12 50 43.0–.07 50.35N 7.80E 11 3.5L,3.4
UCC II 14 12 50 43.0–.54 50.41N 7.81E 7–3 2.6L,3.4
STR II 14 12 50 43.2–.23 50.30N 7.83E 10 3.2L,3.4
BNS II 14 12 50 44.0–.40 50.34N 7.81E 9–3 2.9L,3.4
PRU II 14 12 50 44.9 50.41N 8.03E 12 2.9L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=168.1.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=2.0km az=145.0.
BGR Event type ke. Error ellipse: s-maj=3.3km s-min=2.2km az=3.0.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=152.0.
UCC Event type ke.
STR Event type ke.
BNS Event type ke.
ISC II 14 17 23 31.7–.73 50.33N–.01 7.75E–.01 17–4 475 0-15
CSEM II 14 17 23 31.6–.09 50.32N 7.80E 10 4.0L ¶16024761
IDC II 14 17 23 32.4–1.8 50.36N 7.81E 0 3.7,3.6
LDG II 14 17 23 32.8–.06 50.34N 7.79E 11 3.9L,3.8
UCC II 14 17 23 32.4–.39 50.37N 7.78E 5–2 3.3L,3.8
BGR II 14 17 23 32.6–.18 50.37N 7.85E 10 3.4L,3.8
STR II 14 17 23 33.8–.24 50.23N 7.82E 10 3.6L,3.8
BNS II 14 17 23 33.3–.56 50.35N 7.80E 11–3 3.2L,3.8
PRU II 14 17 23 35.6 50.36N 8.08E 17 3.2L,3.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.7km az=158.0.
IDC Error ellipse: s-maj=22.7km s-min=10.9km az=64.0.
LDG Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=165.0.
UCC Event type ke.
BGR Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=166.0.
STR Event type ke.
BNS Event type ke.
ISC II 16 11 05 20.8–1.9 48.40N–.05 9.81E–.09 9–13 29 1-4
ISCJB II 16 11 05 19.0–1.4 48.46N–.04 9.9E–.10 3–8 ¶16030276
CSEM II 16 11 05 19.2–.72 48.44N 9.75E 10 2.7L
VIE II 16 11 05 20.5–1.2 48.38N 9.81E 10–3 2.1L,1.9b
PRU II 16 11 05 22.7 48.38N 9.88E 0 2.1L,1.9b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.8km s-min=4.6km az=21.7.
CSEM Event type ke. Error ellipse: s-maj=14.4km s-min=5.2km az=111.0.
VIE Error ellipse: s-maj=6.9km s-min=5.2km az=163.0.
WBNET II 19 03 26 10.7 50.26N 12.30E 11 0.2L
¶601643321

IDC II 23 13 18 41.6–6.2 49.19N 11.34E 0
¶17192744

IDC Error ellipse: s-maj=43.4km s-min=41.8km az=4.0.
LDG II 28 01 46 50.5–.07 48.37N 9.01E 10 1.3L
¶16166751

LDG Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=147.0.
WBNET III 11 15 35 47.3 50.26N 12.30E 10 0.5L
¶601643346

WBNET III 12 06 58 50.1 50.26N 12.30E 11 0.5L
PRU III 12 06 58 50.5 50.26N 12.27E 1 0.5L ¶16330865
PRU Bad Brambach.
WBNET III 12 09 36 08.6 50.25N 12.44E 9
PRU III 12 09 36 09.9 50.27N 12.46E 0 ¶16330868
PRU West Bohemia.
WBNET III 12 09 58 34.8 50.25N 12.44E 9
PRU III 12 09 58 36.1 50.27N 12.47E 0 ¶16330870
PRU West Bohemia.
WBNET III 12 12 16 44.7 50.24N 12.44E 9 0.5L
PRU III 12 12 16 45.0 50.25N 12.40E 3 0.5L ¶16330876
PRU West Bohemia.
WBNET III 12 12 39 36.9 50.24N 12.45E 9 0.4L
PRU III 12 12 39 36.2 50.30N 12.43E 3 0.4L ¶16330884
PRU West Bohemia.
WBNET III 12 12 46 46.8 50.24N 12.44E 9 0.5L
¶601643375

WBNET III 12 12 49 13.0 50.24N 12.44E 9 0.7L
PRU III 12 12 49 13.6 50.27N 12.47E 2 0.7L ¶16330890
PRU West Bohemia.
WBNET III 12 12 49 21.8 50.25N 12.44E 9 0.4L
PRU III 12 12 49 22.4 50.27N 12.46E 2 0.4L ¶16330893
PRU West Bohemia.
WBNET III 12 12 51 33.2 50.24N 12.44E 9 0.4L
PRU III 12 12 51 33.9 50.27N 12.46E 2 0.4L ¶16330895
PRU West Bohemia.
WBNET III 12 12 55 18.1 50.24N 12.44E 9 0.5L
¶601643390

WBNET III 12 13 03 22.2 50.24N 12.44E 9 0.6L
PRU III 12 13 03 22.8 50.27N 12.46E 3 0.6L ¶16330900
PRU West Bohemia.
WBNET III 12 13 03 31.1 50.24N 12.44E 9 0.2L
¶16330903

WBNET III 12 13 04 07.5 50.24N 12.44E 9 0.5L
PRU III 12 13 04 08.1 50.27N 12.47E 2 0.5L ¶601643391
PRU West Bohemia.
WBNET III 12 13 10 13.8 50.24N 12.44E 9 0.1L
PRU III 12 13 10 14.3 50.27N 12.46E 3 0.1L ¶16330904
PRU West Bohemia.
WBNET III 12 13 10 56.6 50.24N 12.44E 9
¶16330905

WBNET III 12 13 11 26.3 50.24N 12.44E 9 0.4L
PRU III 12 13 11 26.6 50.26N 12.48E 3 0.4L ¶601643397
PRU West Bohemia.
PRU III 12 13 11 34.4 50.27N 12.48E 3
¶603354268

PRU West Bohemia.
WBNET III 12 13 30 31.3 50.25N 12.44E 9 0.2L
PRU III 12 13 30 31.7 50.27N 12.47E 3 0.2L ¶601643412
PRU West Bohemia.
WBNET III 12 13 52 15.8 50.24N 12.44E 9 0.9L
PRU III 12 13 52 16.2 50.24N 12.40E 3 0.9L ¶601643414
PRU West Bohemia.
WBNET III 12 14 19 29.9 50.25N 12.44E 10 0.7L
PRU III 12 14 19 30.2 50.25N 12.40E 2 0.7L ¶601643418
PRU West Bohemia.
WBNET III 12 14 53 26.7 50.24N 12.44E 9 0.1L
PRU III 12 14 53 27.2 50.27N 12.47E 2 0.1L ¶16330922
PRU West Bohemia.
WBNET III 12 15 59 49.5 50.25N 12.44E 9
PRU III 12 15 59 50.1 50.27N 12.47E 0 ¶16330932
PRU West Bohemia.
WBNET III 12 16 19 12.8 50.25N 12.44E 9 0.2L
PRU III 12 16 19 13.6 50.27N 12.46E 1 0.2L ¶16330933
PRU West Bohemia.
WBNET III 12 20 29 06.8 50.25N 12.45E 10 0.4L
PRU III 12 20 29 07.5 50.27N 12.46E 3 0.4L ¶16330944
PRU West Bohemia.
WBNET III 12 22 46 26.8 50.25N 12.44E 9 0.1L
PRU III 12 22 46 27.3 50.27N 12.47E 3 0.1L ¶16330952
PRU West Bohemia.
WBNET III 12 23 21 07.8 50.25N 12.44E 8
PRU III 12 23 21 08.2 50.27N 12.46E 3 ¶16330953
PRU West Bohemia.
WBNET III 13 11 52 07.0 50.25N 12.45E 10 0.4L
PRU III 13 11 52 07.7 50.27N 12.47E 2 0.4L ¶16331051
PRU West Bohemia.
WBNET III 14 14 03 15.3 50.23N 12.44E 8 0.3L
¶601643431

LDG III 16 23 48 01.3–.39 51.43N 6.21E 2 2.4L
¶16349060

LDG Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=24.0.
ISC V 25 07 22 41.3–.87 47.50N–.02 9.84E–.02 29–5 106 0-2
CSEM V 25 07 22 41.6–.14 47.51N 9.84E 30 2.6L ¶16539636
VIE V 25 07 22 41.9–.59 47.52N 9.92E 14 2.3L,1.2b
ZUR V 25 07 22 41.5 47.49N 9.83E 30–1 2.1L,1.2b
BGR V 25 07 22 41.8–.51 47.52N 9.85E 21–1 1.9L,1.2b
LDG V 25 07 22 42.2–.22 47.53N 9.78E 15 2.2L,1.2b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=2.8km az=18.0.
VIE Event type ke. Error ellipse: s-maj=4.8km s-min=2.0km az=157.0.
ZUR Event type ke.
BGR Event type ke. Error ellipse: s-maj=5.6km s-min=2.2km az=10.0.
LDG Event type ke. Error ellipse: s-maj=4.9km s-min=3.7km az=40.0.
WBNET VI 12 16 00 32.6 50.21N 12.45E 10 0.2L
¶601654104

WBNET VI 13 00 14 52.1 50.22N 12.44E 10 0.2L
PRU VI 13 00 14 52.6 50.20N 12.39E 3 0.2L ¶16613916
PRU West Bohemia.
ISC VI 14 21 14 40.6–.78 47.17N–.02 9.52E–.02 13–4 125 0-4
IASPE VI 14 21 14 40.7–.79 47.17N–.02 9.52E–.02 13–5 ¶16614318
CSEM VI 14 21 14 40.9–.10 47.17N 9.52E 15 2.1L
BGR VI 14 21 14 41.8–.48 47.15N 9.50E 10 1.7L
ZUR VI 14 21 14 41.0 47.18N 9.54E 9–0 1.9L
LDG VI 14 21 14 41.2–.09 47.15N 9.54E 10 2.6,2.2L
ROM VI 14 21 14 42.3–.25 47.07N 9.54E 6–1 2.1,1.0L
STR VI 14 21 14 43.6–.57 47.22N 9.38E 5 2.1L,1.0L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=32.6. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=1.6km az=26.0.
BGR Event type ke. Error ellipse: s-maj=4.4km s-min=4.4km az=1.0.
ZUR Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=39.0.
ROM Event type ke. Error ellipse: s-maj=3.7km s-min=1.4km az=19.0.
STR Event type ke.
LDG VI 18 22 46 35.8–.05 50.14N 7.89E 7 2.3,2.3L
¶16632954

LDG Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=72.0.
WBNET VI 22 14 29 47.1 50.20N 12.45E 10 0.5L
¶601654679

WBNET VI 22 14 39 01.9 50.20N 12.45E 10 0.1L
¶601654688

WBNET VI 22 14 39 03.2 50.20N 12.45E 10 1.0L
¶601654691

WBNET VI 22 14 46 04.9 50.19N 12.46E 11 1.5L
¶601654709

WBNET VI 22 14 54 03.8 50.20N 12.45E 10 1.1L
¶601654710

WBNET VI 22 14 54 05.1 50.20N 12.45E 10 0.6L
¶601654713

(544) Switzerland.

ZUR I 04 17 18 34.0 46.32N 7.56E 3–1 1.0L
CSEM I 04 17 18 33.9–.07 46.32N 7.56E 5 1.8L ¶16464713
GEN I 04 17 18 34.3 46.28N 7.55E 10 0.5L
ZUR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=167.0.
ISC I 07 01 25 57.9–.76 46.76N–.01 9.96E–.01 14–4 156 0-4
ISCJB I 07 01 25 57.5–.25 46.75N–.02 10.01E–.02 10–2 ¶15908415
CSEM I 07 01 25 57.8–.11 46.75N 9.98E 2 2.8L
VIE I 07 01 25 57.8–.14 46.76N 10.02E 10–1 2.5L,1.8b
IASPE I 07 01 25 57.6–.81 46.76N–.02 9.98E–.02 12–4 2.5L,1.8b
ROM I 07 01 25 57.8–.16 46.76N 10.01E 10–1 2.4,2.1L
LDG I 07 01 25 58.0–.06 46.74N 10.00E 10 2.3L,2.1L
ZUR I 07 01 25 58.1 46.76N 10.00E 8–1 2.3L,2.1L
PRU I 07 01 25 59.1 46.78N 10.06E 2 2.3L,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=174.2.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.9km az=10.0.
VIE Error ellipse: s-maj=1.0km s-min=0.9km az=57.0.
IASPE Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=159.0. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=2.8km s-min=1.3km az=6.0.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.2km az=17.0.
ZUR Event type ke.
ISC I 08 20 28 44.3–.65 46.30N–.01 7.49E–.01 13–4 267 0-6
ISCJB I 08 20 28 43.7–.19 46.30N–.01 7.45E–.02 4–2 ¶15925600
STR I 08 20 28 44.8–.31 46.29N 7.53E 5 2.6L
ROM I 08 20 28 44.6–.25 46.27N 7.51E 11–2 2.2,1.9L
GEN I 08 20 28 44.2 46.32N 7.50E 13 1.9L,1.9L

ZUR	I	08 20 28 44.7	46.31N	7.51E	4–1	2.4L,1.9L		
CSEM	I	08 20 28 44.5–.08	46.29N	7.49E	2	2.6L,1.9L		
LDG	I	08 20 28 45.2–.04	46.29N	7.53E	4	2.6,2.6L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.0km s-min=1.8km az=16.3.							
STR	Event type ke.							
ROM	Event type ke. Error ellipse: s-maj=2.5km s-min=1.7km az=150.0.							
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=129.0.							
LDG	Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=114.0.							
ISC	**I**	**08 20 48 17.0–.44**	**46.306N–.01**	**7.492E–.01**	**11–3**		**609**	**0-10**
ISCJB	I	08 20 48 15.7–.16	46.313N–.01	7.46E–.01	0–2			**¶15910783**
STR	I	08 20 48 17.2–.14	46.26N	7.55E	5	3.3L		
BNS	I	08 20 48 17.2–.61	46.17N	7.47E	5	3.3L		
ROM	I	08 20 48 17.9–.11	46.24N	7.53E	11–0	3.0L,3.0		
CSEM	I	08 20 48 17.0–.07	46.29N	7.50E	5	3.6L,3.0		
GEN	I	08 20 48 17.4	46.27N	7.51E	17	3.0L,3.0		
NEIC	I	08 20 48 17.3	46.31N	7.51E	7	3.4L,3.3L		
ZUR	I	08 20 48 17.3	46.31N	7.51E	7–0	3.3L,3.3L		
LDG	I	08 20 48 18.1–.05	46.29N	7.52E	7	3.6,3.5L		
BGR	I	08 20 48 18.9–.45	46.37N	7.41E	5	3.5L,3.5L		
PRU	I	08 20 48 19.5	46.27N	7.62E	12	3.5L,3.5L		
ISC	Event type fe.							
ISCJB	Event type fe. Error ellipse: s-maj=1.6km s-min=1.3km az=136.7.							
STR	Event type ke.							
BNS	Event type ke.							
ROM	Event type ke. Error ellipse: s-maj=1.0km s-min=0.5km az=153.0.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=139.0.							
NEIC	Event type fe. Felt [III] at Sierre. Also felt at Montana and Sion. After ZUR.							
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=1.1km s-min=0.9km az=126.0.							
BGR	Event type ke. Error ellipse: s-maj=5.6km s-min=5.6km az=100.0.							
ISC	**I**	**08 22 20 26.1–.65**	**46.30N–.01**	**7.50E–.01**	**10–4**		**540**	**0-8**
ISCJB	I	08 22 20 25.0–.17	46.314N–.01	7.46E–.01	0–2			**¶15910788**
CSEM	I	08 22 20 26.2–.07	46.30N	7.50E	5	3.6L		
ROM	I	08 22 20 26.7–.09	46.25N	7.53E	11–0	2.9L		
GEN	I	08 22 20 26.4	46.27N	7.51E	16	2.8L		
BNS	I	08 22 20 26.3–.65	46.17N	7.47E	5	3.0L		
ZUR	I	08 22 20 26.3	46.31N	7.51E	7–0	3.3L		
LDG	I	08 22 20 27.2–.06	46.29N	7.53E	7	3.4,3.4L		
BGR	I	08 22 20 28.4–.45	46.38N	7.44E	5	3.4L,3.4L		
STR	I	08 22 20 28.0–.13	46.37N	7.48E	5	3.2L,3.4L		
PRU	I	08 22 20 31.4	46.24N	7.90E	11	3.2L,3.4L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=22.2.							
CSEM	Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=136.0.							
ROM	Event type ke. Error ellipse: s-maj=1.7km s-min=0.6km az=120.0.							
BNS	Event type ke.							
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=129.0.							
BGR	Event type ke. Error ellipse: s-maj=7.8km s-min=5.6km az=42.0.							
STR	Event type ke.							
ISC	**I**	**08 23 32 29.4–.78**	**46.30N–.01**	**7.51E–.01**	**12–5**		**391**	**0-7**
CSEM	I	08 23 32 29.2–.07	46.29N	7.51E	5	3.1L		**¶15910791**
STR	I	08 23 32 29.3–.13	46.27N	7.55E	5	2.8L		
NEIC	I	08 23 32 29.6	46.31N	7.61E	5	3.0L,2.8L		
ROM	I	08 23 32 29.9–.19	46.25N	7.51E	11–1	2.7,2.4L		
GEN	I	08 23 32 29.7	46.27N	7.51E	14	2.4L,2.4L		
ZUR	I	08 23 32 29.6	46.31N	7.51E	7–0	2.8L,2.4L		
LDG	I	08 23 32 30.2–.05	46.28N	7.52E	7	2.9,2.9L		
PRU	I	08 23 32 32.5	46.31N	7.66E	4	2.9,2.9L		
ISC	Event type fe.							
CSEM	Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=134.0.							
STR	Event type ke.							
NEIC	Event type fe. Felt at Sierre. After ZUR.							
ROM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=164.0.							
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=120.0.							
ZUR	**I**	**12 22 58 16.5**	**46.53N**	**9.56E**	**4–2**	**1.7L**		
ROM	I	12 22 58 15.8–.20	46.53N	9.60E	5–3	1.8,1.2L		**¶16460978**
CSEM	I	12 22 58 16.3–.07	46.54N	9.57E	10	2.2L,1.2L		
VIE	I	12 22 58 17.7–.44	46.57N	9.69E	10–4	1.9L,1.2b		
ZUR	Event type ke.							
ROM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=165.0.							
CSEM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.2km az=157.0.							
VIE	Error ellipse: s-maj=2.6km s-min=1.4km az=67.0.							
ZUR	**I**	**15 18 56 57.5**	**46.30N**	**8.17E**	**3–2**	**0.5L**		
CSEM	I	15 18 56 57.5	46.30N	8.17E	3	0.5L		**¶16460981**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**I**	**15 22 02 08.7–.91**	**46.12N–.02**	**8.02E–.02**	**11–5**		**82**	**0-2**
ISCJB	I	15 22 02 08.2–.43	46.10N–.02	8.01E–.03	14–4			**¶15938494**
ROM	I	15 22 02 08.8–.25	46.11N	8.02E	11–1	2.1,1.7L		
IASPE	I	15 22 02 08.5–1.0	46.12N–.02	8.02E–.02	12–5	2.1,1.7L		
GEN	I	15 22 02 08.9	46.13N	8.00E	9	1.6L,1.7L		
CSEM	I	15 22 02 08.4–.06	46.11N	8.01E	15	2.5L,1.7L		
LDG	I	15 22 02 08.9–.05	46.12N	8.02E	7	2.4,2.2L		
ZUR	I	15 22 02 09.1	46.12N	8.02E	7–1	1.8L,2.2L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=141.7.							
ROM	Event type ke. Error ellipse: s-maj=4.1km s-min=2.0km az=178.0.							
IASPE	Event type ke. Error ellipse: s-maj=3.0km s-min=2.8km az=139.6. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
CSEM	Event type ke. Error ellipse: s-maj=1.5km s-min=1.0km az=128.0.							
LDG	Event type ke. Error ellipse: s-maj=1.2km s-min=0.6km az=124.0.							
ZUR	Event type ke.							
ZUR	**II**	**01 23 56 58.1**	**46.04N**	**6.89E**	**3–1**	**1.1L**		
GEN	II	01 23 56 57.8	46.01N	6.92E	1	0.6L		**¶602000927**
CSEM	II	01 23 56 57.5–.15	46.02N	6.88E	5	1.1L		
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.3km s-min=1.5km az=84.0.							
ZUR	**III**	**03 06 42 13.3**	**46.41N**	**8.54E**	**9–2**	**1.0L**		
CSEM	III	03 06 42 13.3	46.41N	8.54E	9	1.0L		**¶603310062**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ZUR	**III**	**12 15 37 42.0**	**46.32N**	**7.56E**	**5–2**	**1.0L**		
CSEM	III	12 15 37 42.0	46.32N	7.56E	5	1.0L		**¶16461497**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**III**	**15 08 02 53.6–.85**	**46.03N–.02**	**6.90E–.03**	**11–7**		**86**	**0-3**
CSEM	III	15 08 02 52.8–.09	46.04N	6.83E	10	2.1L		**¶603145369**
ZUR	III	15 08 02 53.8	46.03N	6.89E	3–2	1.5L		
LDG	III	15 08 02 53.8–.06	46.04N	6.84E	2	2.2L,2.1		
GEN	III	15 08 02 54.2	46.01N	6.95E	15	1.3L,2.1		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.8km az=72.0.							
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=82.0.							
ZUR	**III**	**25 04 10 55.4**	**46.32N**	**7.56E**	**6–2**	**0.8L**		
CSEM	III	25 04 10 55.2–.10	46.30N	7.57E	8	0.8L		**¶16462178**
GEN	III	25 04 10 55.6	46.27N	7.56E	14	0.3L		
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=145.0.							
ISC	**III**	**30 13 01 10.8–.42**	**47.58N–.01**	**7.802E–.01**	**13–2**		**358**	**0-4**
ISCJB	III	30 13 01 10.5–.15	47.562N–.01	7.78E–.01	11–1			**¶16392166**
IASPE	III	30 13 01 11.2–.74	47.58N–.01	7.81E–.01	16–4			
CSEM	III	30 13 01 11.3–.06	47.57N	7.78E	15	3.0L		
ZUR	III	30 13 01 11.9	47.57N	7.82E	13–0	2.5L		
LDG	III	30 13 01 12.2–.03	47.57N	7.81E	10	3.0L,2.8		
GEN	III	30 13 01 12.9	47.60N	7.69E	49	2.5L,2.8		
STR	III	30 13 01 12.1–.15	47.60N	7.82E	5	2.6L,2.8		
ROM	III	30 13 01 12.0–.31	47.56N	7.86E	3	2.4,2.2L		
BGR	III	30 13 01 12.3–.32	47.58N	7.81E	10	2.6L,2.2L		
VIE	III	30 13 01 18.1–.64	47.30N	8.36E	9–2	2.6L,1.8b		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=39.5.							
IASPE	Event type ke. Error ellipse: s-maj=2.1km s-min=1.8km az=3.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
CSEM	Event type ke. Error ellipse: s-maj=1.3km s-min=1.2km az=151.0.							
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=141.0.							
STR	Event type ke.							
ROM	Event type ke. Error ellipse: s-maj=3.4km s-min=1.8km az=171.0.							
BGR	Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=60.0.							
VIE	Error ellipse: s-maj=4.0km s-min=3.4km az=5.0.							
ISC	**IV**	**09 15 17 32.8–.85**	**46.04N–.02**	**6.86E–.02**	**12–6**		**81**	**0-3**
ISCJB	IV	09 15 17 31.9–.30	46.05N–.02	6.80E–.03	14–3			**¶16424655**
ZUR	IV	09 15 17 33.8	46.04N	6.87E	2–2	1.3L		
CSEM	IV	09 15 17 33.1–.09	46.03N	6.85E	5	1.9L		
LDG	IV	09 15 17 33.8–.04	46.03N	6.88E	2	2.2,2.0L		
GEN	IV	09 15 17 34.4	46.00N	6.94E	10	1.0L,2.0L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.1km s-min=2.8km az=155.4.							
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=66.0.							
LDG	Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=91.0.							
ISC	**IV**	**12 08 45 06.6–.69**	**47.39N–.01**	**7.851E–.01**	**18–3**		**344**	**0-4**
BGR	IV	12 08 45 06.7–.35	47.40N	7.83E	10	2.4L		**¶16418182**
ZUR	IV	12 08 45 06.6	47.39N	7.86E	12–0	2.4L		
STR	IV	12 08 45 06.5–.19	47.40N	7.86E	5	2.5L		
CSEM	IV	12 08 45 06.1–.07	47.39N	7.83E	15	2.9L		
LDG	IV	12 08 45 06.9–.05	47.39N	7.85E	12	2.9,2.9L		
GEN	IV	12 08 45 12.1	47.06N	7.75E	0	2.0L,2.9L		
ISC	Event type ke.							
BGR	Event type ke. Error ellipse: s-maj=2.2km s-min=2.2km az=27.0.							
ZUR	Event type ke.							
STR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=163.0.							
LDG	Event type ke. Error ellipse: s-maj=1.0km s-min=0.8km az=140.0.							
ISC	**IV**	**12 19 40 48.3–.77**	**46.20N–.01**	**7.32E–.01**	**11–4**		**189**	**0-3**
ISCJB	IV	12 19 40 46.8–.21	46.21N–.01	7.24E–.02	12–2			**¶16424697**
CSEM	IV	12 19 40 47.5–.07	46.19N	7.29E	10	2.3L		
GEN	IV	12 19 40 48.6	46.16N	7.36E	12	1.5L		
LDG	IV	12 19 40 48.3–.04	46.20N	7.32E	6	2.4,2.3L		
IASPE	IV	12 19 40 48.5–.89	46.20N–.02	7.32E–.02	6–5	2.4,2.3L		
STR	IV	12 19 40 48.3–.32	46.17N	7.33E	5	2.2L,2.3L		
ZUR	IV	12 19 40 48.1	46.21N	7.33E	6–1	1.8L,2.3L		
ROM	IV	12 19 40 49.0–.19	46.17N	7.43E	10–2	1.9,1.7L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=2.5km s-min=2.1km az=173.9.							
CSEM	Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=85.0.							
LDG	Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=95.0.							
IASPE	Event type ke. Error ellipse: s-maj=2.5km s-min=2.3km az=4.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
STR	Event type ke.							
ZUR	Event type ke.							
ROM	Event type ke. Error ellipse: s-maj=4.1km s-min=2.1km az=83.0.							
ISC	**IV**	**17 09 56 42.7–.92**	**47.34N–.03**	**7.34E–.03**	**12–5**		**67**	**0-3**
ISCJB	IV	17 09 56 42.9–.48	47.36N–.03	7.26E–.03	12–3			**¶16450357**
STR	IV	17 09 56 42.9–1.0	47.32N	7.33E	10	1.7L		
ZUR	IV	17 09 56 43.6	47.36N	7.34E	7–1	1.4L		
CSEM	IV	17 09 56 43.4–.16	47.36N	7.30E	10	1.8L		
LDG	IV	17 09 56 43.8–.06	47.36N	7.34E	7	1.9L,1.8		
ISC	Event type fe.							
ISCJB	Event type fe. Error ellipse: s-maj=4.6km s-min=3.6km az=162.6.							
STR	Event type ke.							
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=3.2km s-min=2.4km az=154.0.							
LDG	Event type ke. Error ellipse: s-maj=1.2km s-min=1.0km az=154.0.							
ZUR	**IV**	**24 06 47 47.7**	**46.86N**	**7.12E**	**6–2**	**1.2L**		
LDG	IV	24 06 47 47.4–.22	46.78N	7.21E	7	1.8,1.6L		**¶602945447**
CSEM	IV	24 06 47 48.1–.14	46.83N	7.14E	5	1.6L,1.6L		
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=3.7km s-min=1.5km az=119.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=107.0.							
ZUR	**V**	**07 13 09 42.3**	**46.35N**	**6.95E**	**2–0**	**0.9L**		
CSEM	V	07 13 09 42.3	46.35N	6.95E	2	0.9L		**¶603241687**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ZUR	**V**	**13 15 53 42.3**	**46.24N**	**7.75E**	**3–1**	**1.1L**		
CSEM	V	13 15 53 42.3	46.24N	7.75E	3	1.1L		**¶603241699**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ZUR	**V**	**14 05 42 23.7**	**47.00N**	**9.05E**	**9–4**	**1.3L**		
CSEM	V	14 05 42 23.7	47.00N	9.05E	9	1.3L		**¶603241700**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ZUR	**V**	**15 04 17 20.7**	**46.19N**	**7.67E**	**2–1**	**1.2L**		
CSEM	V	15 04 17 20.5–.04	46.18N	7.66E	5	1.7L		**¶603241701**
GEN	V	15 04 17 20.7	46.17N	7.67E	5	0.7L		
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=0.9km s-min=0.8km az=99.0.							
ZUR	**V**	**29 01 12 37.0**	**46.29N**	**7.60E**	**3–2**	**0.6L**		
CSEM	V	29 01 12 37.0	46.29N	7.60E	3	0.6L		**¶16637513**
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**V**	**30 12 01 03.4–1.1**	**46.28N–.03**	**8.71E–.03**	**33–2**		**39**	**0-1**
ROM	V	30 12 01 03.9–.18	46.28N	8.69E	11	1.8,1.4L		**¶16637521**
CSEM	V	30 12 01 04.5–.18	46.27N	8.66E	10	1.8,1.4L		
ZUR	V	30 12 01 04.8	46.28N	8.70E	5–2	1.8L,1.4L		
ISC	Event type ke.							
ROM	Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=158.0.							
CSEM	Event type ke. Error ellipse: s-maj=4.0km s-min=3.3km az=117.0.							
ZUR	Event type ke.							
ZUR	**VI**	**10 15 31 49.5**	**47.70N**	**8.47E**	**12–1**	**1.1L**		
LDG	VI	10 15 31 49.8–.06	47.71N	8.46E	10	1.5L		**¶603482757**
CSEM	VI	10 15 31 49.8–.16	47.74N	8.43E	10	1.6L		
ZUR	Event type ke.							
LDG	Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=168.0.							
CSEM	Event type ke. Error ellipse: s-maj=3.8km s-min=2.6km az=33.0.							
ZUR	**VI**	**25 10 00 18.7**	**46.22N**	**7.66E**	**3–1**	**1.0L**		
CSEM	VI	25 10 00 18.5–.06	46.21N	7.66E	5	1.0L		**¶603482805**
GEN	VI	25 10 00 18.9	46.18N	7.66E	2	0.7L		
ZUR	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=1.4km s-min=1.3km az=108.0.							

(545) Northern Italy.

ROM	**I**	**08 11 33 43.8–.25**	**45.98N**	**7.89E**	**11–2**	**1.6**		
CSEM	I	08 11 33 43.9–.07	45.96N	7.93E	10	1.6		**¶15928047**
ZUR	I	08 11 33 44.4	45.97N	7.95E	7–1	1.5L		
GEN	I	08 11 33 44.0	45.97N	7.93E	10	1.5L		
ROM	Event type ke. Error ellipse: s-maj=10.2km s-min=2.5km az=114.0.							
CSEM	Event type ke. Error ellipse: s-maj=2.0km s-min=1.2km az=117.0.							
ZUR	Event type ke.							
CSEM	**I**	**12 15 47 57.0**	**45.83N**	**13.68E**	**0**	**0.7L**		
LJU	I	12 15 47 57.1	45.83N	13.69E	14	0.7L		**¶600022933**

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 15 13 15 56.4–.94 44.05N–.03 8.64E–.02 17–6 113 0-3
CSEM I 15 13 15 56.3–.29 44.12N 8.62E 19–0 2.8L ¶15994861
LDG I 15 13 15 56.2–.10 44.17N 8.70E 25 2.6L,2.3
ISCJB I 15 13 15 56.7–.65 44.04N–.03 8.70E–.04 15–7 2.6L,2.3
ROM I 15 13 15 57.2–.25 44.10N 8.58E 10–1 2.2L,2.2
GEN I 15 13 15 57.2 44.07N 8.60E 12 2.2L,2.2
STR I 15 13 15 58.4–.42 43.97N 8.64E 10 2.6L,2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=4.3km az=149.0.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=60.0.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=4.6km az=143.8.
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.5km az=160.0.
STR Event type ke.
ISC I 15 19 35 16.6–1.1 45.95N–.03 10.19E–.03 10–16 29 0-1
ISCJB I 15 19 35 16.5–.73 45.95N–.04 10.18E–.05 8–14 ¶602426839
ROM I 15 19 35 16.2–.15 45.93N 10.17E 10 2.1,1.4L
CSEM I 15 19 35 16.5–.10 45.95N 10.18E 10 1.4L,1.4L
ZUR I 15 19 35 16.4 45.95N 10.19E 2–3 1.4L,1.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=5.5km az=170.4.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.9km az=28.0.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.9km az=31.0.
ZUR Event type ke.
ISC I 15 20 32 46.1–.79 44.41N–.02 7.09E–.02 15–5 74 0-2
ISCJB I 15 20 32 46.6–.32 44.40N–.02 7.10E–.03 17–5 ¶15994864
GEN I 15 20 32 46.7 44.39N 7.05E 5 1.8L
CSEM I 15 20 32 46.2–.11 44.40N 7.06E 5 2.6L
LDG I 15 20 32 46.4–.04 44.41N 7.09E 2 2.6L,2.5
ROM I 15 20 32 46.4–.26 44.41N 7.11E 9–1 2.1,1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.5km s-min=2.7km az=148.9.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=62.0.
LDG Event type ke. Error ellipse: s-maj=1.1km s-min=0.6km az=70.0.
ROM Event type ke. Error ellipse: s-maj=5.0km s-min=1.3km az=61.0.
ISC I 23 02 24 37.2–.88 46.15N–.02 12.19E–.02 8–7 57 0-1
ROM I 23 02 24 36.9–.29 46.14N 12.20E 10–5 2.1,1.3L ¶600305949
CSEM I 23 02 24 37.6–.11 46.15N 12.20E 5 2.1,1.3L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=5.6km s-min=3.7km az=116.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=145.0.
ISC I 31 03 51 55.2–.79 44.42N–.01 7.04E–.02 15–5 97 0-2
CSEM I 31 03 51 55.2–.08 44.42N 7.01E 5 2.4L ¶16002338
LDG I 31 03 51 55.7–.05 44.42N 7.03E 4 2.5L,2.4
ISCJB I 31 03 51 55.7–.28 44.42N–.02 7.06E–.03 17–5 2.5L,2.4
GEN I 31 03 51 55.7 44.41N 7.04E 10 2.0L,2.4
STR I 31 03 51 55.7–.11 44.42N 7.01E 5 2.2L,2.4
ROM I 31 03 51 55.6–.39 44.43N 7.06E 11–1 2.2,1.8L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=71.0.
LDG Event type ke. Error ellipse: s-maj=1.2km s-min=0.8km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=4.0km s-min=2.4km az=159.8.
STR Event type ke.
ROM Event type ke. Error ellipse: s-maj=5.7km s-min=1.8km az=68.0.
ISC II 09 17 06 56.1–.88 44.36N–.02 11.49E–.02 22–5 80 0-5
ISCJB II 09 17 06 55.8–.44 44.39N–.03 11.47E–.03 28–4 ¶16016448
CSEM II 09 17 06 55.9–.18 44.36N 11.49E 19–0 2.5L
ROM II 09 17 06 55.8–.24 44.37N 11.50E 23–3 2.4,1.9L
LDG II 09 17 06 55.9–.26 44.43N 11.73E 20 2.5L,1.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.6km az=6.5.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.8km az=30.0.
ROM Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=49.0.
LDG Event type ke. Error ellipse: s-maj=5.8km s-min=2.7km az=52.0.
ISC II 11 09 56 07.2–.90 46.04N–.02 10.55E–.02 6–4 74 0-2
ISCJB II 11 09 56 06.4–.42 46.05N–.02 10.56E–.03 10–5 ¶16461097
CSEM II 11 09 56 06.9–.09 46.04N 10.55E 5 2.5L
ROM II 11 09 56 06.4–.18 46.04N 10.55E 10–1 2.0,1.7L
ZUR II 11 09 56 07.3 46.03N 10.55E 5–1 1.7L,1.7L
VIE II 11 09 56 07.8–.26 46.09N 10.61E 11–1 2.1L,2.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=3.4km az=138.9.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=43.0.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=156.0.
ZUR Event type ke.
VIE Error ellipse: s-maj=1.8km s-min=1.0km az=31.0.
ISC II 17 09 35 30.2–.85 44.55N–.02 10.17E–.02 26–5 166 0-6
ROM II 17 09 35 29.3–.21 44.57N 10.03E 26–3 2.7L ¶16030161
GEN II 17 09 35 29.1 44.60N 10.25E 25 2.5L
ISCJB II 17 09 35 29.9–.22 44.55N–.02 10.17E–.02 34–5 2.5L
VIE II 17 09 35 30.7–.54 44.61N 10.38E 10–4 2.8L,2.5b
CSEM II 17 09 35 30.1–.15 44.56N 10.17E 25–1 2.9L,2.5b
LDG II 17 09 35 30.6–.14 44.56N 10.20E 10 2.8L,2.5b
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=124.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.4km az=160.6.
VIE Error ellipse: s-maj=6.8km s-min=2.7km az=114.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.8km az=162.0.
LDG Event type ke. Error ellipse: s-maj=3.6km s-min=2.4km az=45.0.
ISC II 20 21 18 26.5–1.2 46.28N–.04 12.85E–.03 13–7 32 0-1
ISCJB II 20 21 18 26.6–1.4 46.29N–.04 12.84E–.05 13–10 ¶600314227
CSEM II 20 21 18 26.8–.18 46.28N 12.84E 10 1.7
ROM II 20 21 18 26.6–.16 46.32N 12.86E 5–3 1.7,0.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.2km az=161.8.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.6km az=168.0.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=19.0.
ISC II 22 10 47 16.2–.77 44.15N–.01 7.23E–.01 14–5 233 0-6
CSEM II 22 10 47 16.5–.11 44.16N 7.22E 10 3.4L ¶16066050
ISCJB II 22 10 47 16.3–.21 44.15N–.01 7.20E–.02 19–3 3.4L
ROM II 22 10 47 16.6–.28 44.18N 7.23E 11–1 2.9L
GEN II 22 10 47 16.8 44.15N 7.21E 5 3.1L
LDG II 22 10 47 17.3–.06 44.13N 7.26E 3 3.3,3.3L
STR II 22 10 47 17.7–.11 44.11N 7.24E 5 3.0L,3.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=48.0.
ISCJB Event type ke. Error ellipse: s-maj=2.7km s-min=2.4km az=0.6.
ROM Event type ke. Error ellipse: s-maj=3.7km s-min=1.4km az=41.0.
LDG Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=59.0.
STR Event type ke.
ROM III 05 17 13 49.2–.37 44.81N 9.36E 36–2 2.2L,2.2
GEN III 05 17 13 49.7 44.87N 9.63E 25 1.8L,2.2 ¶600314578
CSEM III 05 17 13 49.8–.27 44.86N 9.64E 19–0 2.2,2.2
ROM Event type ke. Error ellipse: s-maj=12.1km s-min=3.1km az=92.0.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=4.1km az=73.0.
ISC III 05 21 48 58.2–.78 46.82N–.01 10.14E–.01 15–5 209 0-5
CSEM III 05 21 48 58.3–.08 46.81N 10.14E 15 2.6L ¶16245340
VIE III 05 21 48 59.4–.33 46.81N 10.21E 5–9 2.4L,1.6b
LDG III 05 21 48 59.6–.04 46.78N 10.15E 10 2.3L,1.6b
ZUR III 05 21 48 59.3 46.79N 10.17E 11–1 2.3L,1.6b
ROM III 05 21 48 59.6–.20 46.76N 10.14E 10–1 2.4,2.0L
PRU III 05 21 49 02.5 46.92N 10.22E 8 2.4,2.0L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=173.0.
VIE Error ellipse: s-maj=1.8km s-min=1.2km az=26.0.
LDG Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=52.0.
ZUR Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.0km s-min=1.5km az=29.0.
ROM III 06 02 06 18.4–.10 44.32N 11.52E 24–1 2.2L
GEN III 06 02 06 15.5 44.31N 11.79E 6 1.6L ¶16196701
CSEM III 06 02 06 18.9–.12 44.30N 11.52E 20 2.2L

ROM Event type ke. Error ellipse: s-maj=1.8km s-min=1.5km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=80.0.
ROM III 06 21 36 29.9–.23 44.84N 10.87E 36–6 2.2,2.0L
CSEM III 06 21 36 30.5–.56 44.91N 10.75E 15 2.2,2.0L ¶600314634
ROM Event type ke. Error ellipse: s-maj=9.1km s-min=4.8km az=158.0.
CSEM Event type ke. Error ellipse: s-maj=14.3km s-min=9.1km az=92.0.
ISC III 06 21 37 05.1–1.2 46.80N–.03 10.21E–.03 11–7 28 0-1
CSEM III 06 21 37 04.9–.20 46.81N 10.12E 2 1.7L ¶602707346
ZUR III 06 21 37 05.4 46.79N 10.17E 7–3 1.2L
VIE III 06 21 37 05.2–.14 46.81N 10.18E 5 1.2L,0.8b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=117.0.
ZUR Event type ke.
VIE Error ellipse: s-maj=1.3km s-min=1.0km az=142.0.
ISC III 11 15 10 38.9–1.8 45.65N–.06 10.71E–.07 6–7 32 0-3
CSEM III 11 15 10 38.4–.53 45.63N 10.69E 2 2.2b ¶601241588
VIE III 11 15 10 39.8–1.3 45.71N 10.65E 10 3.1L,2.2b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.2km s-min=5.0km az=43.0.
VIE Error ellipse: s-maj=9.3km s-min=6.8km az=33.0.
ISC III 12 03 50 48.4–1.0 45.68N–.03 10.74E–.02 5–7 38 0-1
ROM III 12 03 50 47.8–.16 45.68N 10.75E 4–2 2.0,1.6L ¶600314854
ISCJB III 12 03 50 48.2–.89 45.68N–.04 10.74E–.04 9–8 2.0,1.6L
CSEM III 12 03 50 48.5–.09 45.67N 10.74E 2 2.2L,1.6L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=1.5km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=4.2km az=1.3.
CSEM Event type ke.
ISC III 16 11 19 14.5–.90 45.67N–.02 10.72E–.02 5–7 101 0-2
ROM III 16 11 19 14.1–.14 45.69N 10.75E 3–1 2.5L,2.5 ¶16322673
CSEM III 16 11 19 14.6–.14 45.69N 10.74E 2 2.9L,2.5
GEN III 16 11 19 15.1 45.74N 10.71E 0 2.2L,2.5
VIE III 16 11 19 18.6–.66 45.85N 10.89E 5–2 2.6L,2.1b
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.1km az=25.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=3.0.
VIE Error ellipse: s-maj=4.0km s-min=3.5km az=30.0.
ISC III 22 05 23 25.5–1.2 45.34N–.05 11.04E–.02 14–7 80 0-3
ISCJB III 22 05 23 26.0–.69 45.40N–.04 11.07E–.04 15–4 ¶16341534
ROM III 22 05 23 26.2–.50 45.36N 11.03E 11–6 2.3,2.0L
CSEM III 22 05 23 26.1–.24 45.38N 11.04E 15 2.6L,2.0L
VIE III 22 05 23 27.3–.36 45.50N 11.02E 10–1 2.5L,1.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=3.7km az=22.7.
ROM Event type ke. Error ellipse: s-maj=5.2km s-min=2.1km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.3km az=23.0.
VIE Error ellipse: s-maj=2.2km s-min=1.6km az=5.0.
VIE III 22 08 28 44.8–.17 46.80N 10.18E 3 0.4L
¶601242496
VIE Error ellipse: s-maj=1.6km s-min=1.1km az=160.0.
ISC III 22 20 23 19.7–.85 44.21N–.02 12.28E–.02 14–5 123 0-4
ISCJB III 22 20 23 19.4–.30 44.22N–.02 12.27E–.03 15–4 ¶16342642
CSEM III 22 20 23 20.4–.10 44.20N 12.29E 20 3.2L
ROM III 22 20 23 20.2–.19 44.21N 12.30E 21–3 2.7,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.1km az=136.9.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=78.0.
ROM Event type ke. Error ellipse: s-maj=2.7km s-min=1.9km az=26.0.
LDG III 26 05 00 38.9–.04 44.62N 7.27E 2 1.7,1.5L
CSEM III 26 05 00 38.3–.18 44.61N 7.27E 10 1.4L,1.5L ¶16424580
GEN III 26 05 00 39.7 44.62N 7.20E 11 0.9L,1.5L
LDG Event type ke. Error ellipse: s-maj=0.9km s-min=0.5km az=59.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=73.0.
ISC III 28 13 45 29.3–.87 45.72N–.02 11.37E–.01 18–6 225 0-6
LDG III 28 13 45 28.7–.16 45.64N 11.41E 2 2.7L ¶16374433
ROM III 28 13 45 29.6–.17 45.78N 11.44E 2–2 2.9,2.7L
CSEM III 28 13 45 29.4–.13 45.74N 11.41E 12 3.3L,2.7L
VIE III 28 13 45 31.1–.21 45.84N 11.44E 9–0 2.9L,2.3b
PRU III 28 13 45 32.5 45.78N 11.59E 0 2.9L,2.3b
GEN III 28 13 45 32.0 45.80N 11.36E 13 2.5L,2.3b
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=3.6km s-min=2.5km az=123.0.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.1km az=158.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=160.0.
VIE Error ellipse: s-maj=1.4km s-min=0.7km az=22.0.
ISC III 28 20 12 39.6–.88 45.74N–.02 11.43E–.02 13–6 105 0-4
VIE III 28 20 12 38.5–.21 45.72N 11.42E 8–0 2.3L,1.7b ¶16375922
CSEM III 28 20 12 39.7–.13 45.77N 11.46E 10 2.5L,1.7b
ROM III 28 20 12 39.8–.20 45.74N 11.46E 10 2.4,1.9L
ISCJB III 28 20 12 39.5–.34 45.77N–.02 11.48E–.02 9–3 2.4,1.9L
PRU III 28 20 12 41.5 45.74N 11.58E 2 2.4,1.9L
ISC Event type ke.
VIE Error ellipse: s-maj=1.4km s-min=0.7km az=33.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=1.0.
ROM Event type ke. Error ellipse: s-maj=4.4km s-min=2.0km az=163.0.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.9km az=178.6.
LJU IV 01 08 10 46.1 45.62N 13.84E 0 0.7L
¶601124161
LJU Artificial.
ISC IV 02 08 59 39.8–.78 45.62N–.01 7.74E–.02 12–4 143 0-5
LDG IV 02 08 59 39.5–.06 45.62N 7.76E 2 2.6L,2.5 ¶16403579
ROM IV 02 08 59 39.0–.12 45.64N 7.72E 9–1 2.4,2.0L
ZUR IV 02 08 59 39.8 45.64N 7.74E 2–2 2.3L,2.0L
GEN IV 02 08 59 39.4 45.64N 7.71E 10 1.9L,2.0L
CSEM IV 02 08 59 39.3–.15 45.61N 7.72E 2 2.5L,2.0L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=1.4km s-min=0.8km az=98.0.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.3km az=132.0.
ZUR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.3km az=116.0.
ISC IV 06 03 31 46.8–.82 44.38N–.02 7.30E–.02 16–6 92 0-2
CSEM IV 06 03 31 46.8–.07 44.38N 7.29E 12 2.3L ¶16424622
ROM IV 06 03 31 46.6–.22 44.37N 7.27E 14–3 2.1,1.7L
LDG IV 06 03 31 47.0–.16 44.38N 7.34E 2 2.5,2.2L
GEN IV 06 03 31 47.5 44.35N 7.28E 14 1.9L,2.2L
ISCJB IV 06 03 31 47.4–.32 44.36N–.02 7.31E–.03 19–4 1.9L,2.2L
STR IV 06 03 31 48.7–.38 44.32N 7.32E 5 2.1L,2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=60.0.
ROM Event type ke. Error ellipse: s-maj=3.3km s-min=1.5km az=66.0.
LDG Event type ke. Error ellipse: s-maj=3.6km s-min=1.8km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=3.8km s-min=2.9km az=154.6.
STR Event type ke.
ISC IV 08 01 43 14.5–1.0 45.81N–.02 10.05E–.02 18–3 133 0-5
GEN IV 08 01 43 14.6 45.80N 9.99E 0 2.0L ¶16414241
CSEM IV 08 01 43 14.5–.09 45.82N 10.05E 15 2.4L
ISCJB IV 08 01 43 14.8–.31 45.82N–.02 10.04E–.03 26–5 2.4L
LDG IV 08 01 43 15.3–.08 45.83N 10.10E 10 2.1L
ROM IV 08 01 43 15.0–.13 45.82N 10.08E 14–4 2.4,2.1L
VIE IV 08 01 43 15.2–1.1 45.83N 10.18E 8 2.6L,1.8b
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.2km az=139.8.
LDG Event type ke. Error ellipse: s-maj=1.7km s-min=1.5km az=164.0.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=42.0.
VIE Error ellipse: s-maj=7.1km s-min=6.1km az=82.0.
ISC IV 19 20 04 41.8–.85 44.31N–.01 7.42E–.02 22–2 225 0-8
ISCJB IV 19 20 04 42.0–.20 44.30N–.01 7.41E–.02 23–2 ¶16448725
CSEM IV 19 20 04 41.8–.12 44.32N 7.36E 18–1 3.1L
IASPE IV 19 20 04 41.8–.92 44.31N–.02 7.42E–.02 22–2 3.1L
ROM IV 19 20 04 41.9–.19 44.33N 7.41E 17–3 3.1,2.8L

LDG IV 19 20 04 42.7–.07 44.29N 7.39E 10 3.1,3.0L
GEN IV 19 20 04 42.5 44.31N 7.39E 14 2.8L,3.0L
STR IV 19 20 04 43.2–.19 44.28N 7.29E 5 3.0L,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.1km az=144.4.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=56.0.
IASPE Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=73.9. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=4.0km s-min=1.6km az=41.0.
LDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=63.0.
STR Event type ke.
ROM IV 26 19 53 42.3–.55 44.55N 10.28E 31–6 1.8,1.6L
CSEM IV 26 19 53 42.3 44.55N 10.28E 31 1.8,1.6L ¶603458272
ROM Event type ke. Error ellipse: s-maj=6.3km s-min=2.6km az=105.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 26 19 54 24.6–.87 44.58N–.02 10.38E–.02 25–5 112 0-5
GEN IV 26 19 54 23.6 44.64N 10.44E 0 1.9L ¶16462187
ISCJB IV 26 19 54 25.0–.27 44.56N–.02 10.35E–.03 26–3 1.9L
ROM IV 26 19 54 24.7–.12 44.56N 10.37E 25–2 1.7L
CSEM IV 26 19 54 24.7–.13 44.58N 10.37E 20 2.2L
LDG IV 26 19 54 25.0–.12 44.60N 10.43E 10 2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.0km az=37.1.
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.5km az=94.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.9km az=99.0.
LDG Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=105.0.
ISC IV 27 03 17 15.8–.86 44.25N–.02 11.49E–.02 18–4 203 0-6
CSEM IV 27 03 17 14.8–.09 44.29N 11.51E 15 2.7L ¶16463261
LDG IV 27 03 17 16.1–.16 44.22N 11.52E 10 2.6L
ROM IV 27 03 17 16.2–.14 44.23N 11.46E 18–2 2.6,2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=2.0km az=48.0.
LDG Event type ke. Error ellipse: s-maj=4.3km s-min=2.6km az=50.0.
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.5km az=39.0.
ISC IV 28 20 14 39.0–.84 44.64N–.01 10.02E–.01 18–2 390 0-7
ISCJB IV 28 20 14 37.5–.20 44.70N–.01 9.99E–.01 15–1 ¶602213104
GEN IV 28 20 14 37.6 44.73N 10.08E 0 3.0L
CSEM IV 28 20 14 38.2–.09 44.68N 10.01E 10 3.2L
ROM IV 28 20 14 38.8–.11 44.63N 10.00E 25–2 3.0L
LDG IV 28 20 14 39.6–.09 44.67N 10.09E 10 3.1L
PRU IV 28 20 14 40.1 44.71N 10.20E 9 3.1L
STR IV 28 20 14 45.0–.43 44.96N 9.28E 5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.1km s-min=1.6km az=151.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=161.0.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=122.0.
LDG Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=20.0.
STR Event type ke.
ROM IV 28 20 15 23.0–.17 44.63N 10.01E 21–5 2.3L
CSEM IV 28 20 15 22.7–.18 44.64N 10.00E 20–0 2.5L ¶603458273
GEN IV 28 20 15 22.0 44.69N 10.06E 20 2.5L
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=176.0.
CSEM Event type ke. Error ellipse: s-maj=3.5km s-min=2.7km az=1.0.
ISC IV 28 21 03 02.7–.87 44.65N–.02 10.03E–.01 19–6 256 0-6
GEN IV 28 21 03 01.8 44.72N 10.06E 0 2.5L ¶16482364
ISCJB IV 28 21 03 02.8–.22 44.64N–.02 10.02E–.02 29–2 2.5L
CSEM IV 28 21 03 02.4–.10 44.66N 10.03E 15 2.9L
ROM IV 28 21 03 02.6–.10 44.63N 10.02E 26–2 2.6L
LDG IV 28 21 03 03.5–.12 44.63N 10.10E 10 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=2.2km az=167.0.
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=144.0.
LDG Event type ke. Error ellipse: s-maj=2.8km s-min=2.3km az=59.0.
ISC IV 29 17 21 59.3–.81 46.83N–.02 12.38E–.01 12–5 160 0-3
VIE IV 29 17 21 59.4–.22 46.82N 12.37E 8–4 2.5L,1.8b ¶16485903
CSEM IV 29 17 21 59.5–.07 46.80N 12.36E 8 2.9L,1.8b
ISCJB IV 29 17 21 59.0–.23 46.82N–.02 12.36E–.02 7–3 2.9L,1.8b
ROM IV 29 17 22 00.3–.12 46.77N 12.37E 12–1 2.5,1.9L
PRU IV 29 17 22 01.2 46.88N 12.42E 0 2.5,1.9L
ZUR IV 29 17 22 01.4 46.83N 12.22E 13–2 2.2L,1.9L
ISC Event type fe.
VIE Event type fe. Error ellipse: s-maj=2.5km s-min=1.1km az=13.0. felt 3-4 ems98 at Innervillgraten / Tyrol.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.1km az=17.0.
ISCJB Event type fe. Error ellipse: s-maj=2.9km s-min=1.8km az=19.3.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.8km az=177.0.
ZUR Event type ke.
ISC IV 29 19 33 03.1–.80 44.39N–.01 7.33E–.02 18–4 196 0-5
ROM IV 29 19 33 03.4–.16 44.39N 7.32E 12–3 2.6,2.4L ¶16485189
ISCJB IV 29 19 33 03.1–.21 44.40N–.01 7.29E–.03 26–2 2.6,2.4L
CSEM IV 29 19 33 03.0–.09 44.41N 7.30E 10 2.7L,2.4L
LDG IV 29 19 33 04.1–.03 44.38N 7.32E 6 2.6,2.6L
GEN IV 29 19 33 04.1 44.37N 7.30E 11 2.7L,2.6L
STR IV 29 19 33 04.2–.07 44.38N 7.28E 5 2.7L,2.6L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.1km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=158.5.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.7km az=67.0.
LDG Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=65.0.
STR Event type ke.
ISC IV 30 07 43 09.9–2.6 44.94N–.03 12.06E–.05 38–4 47 0-2
ROM IV 30 07 43 08.8–.21 44.94N 12.14E 33–2 2.6,2.1L ¶600317323
ISCJB IV 30 07 43 09.4–.55 44.94N–.03 12.11E–.08 42–9 2.6,2.1L
CSEM IV 30 07 43 09.7–.13 44.93N 12.06E 40 3.1L,2.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=5.4km s-min=1.5km az=85.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.6km az=177.4.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=2.7km az=85.0.
ISC IV 30 10 06 41.0–.87 44.14N–.02 8.59E–.02 18–2 121 0-5
CSEM IV 30 10 06 40.8–.18 44.16N 8.55E 10 2.9L ¶16485267
ISCJB IV 30 10 06 41.6–.39 44.15N–.03 8.60E–.03 17–4 2.9L
GEN IV 30 10 06 41.3 44.15N 8.62E 14 2.1L
LDG IV 30 10 06 41.6–.12 44.21N 8.56E 10 2.7,2.7L
ROM IV 30 10 06 41.4–.14 44.16N 8.59E 10–1 2.3,2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=170.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.2km az=178.5.
LDG Event type ke. Error ellipse: s-maj=2.4km s-min=2.1km az=9.0.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.0km az=174.0.
ROM IV 30 22 41 58.1–.24 44.60N 10.06E 26–2 1.8,1.5L
CSEM IV 30 22 41 58.1 44.60N 10.06E 26 1.8,1.5L ¶600317355
ROM Event type ke. Error ellipse: s-maj=7.9km s-min=1.8km az=141.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 01 00 19 02.8–.89 44.13N–.02 8.51E–.02 18–2 150 0-5
CSEM V 01 00 19 02.8–.14 44.13N 8.51E 15 2.9L ¶16485946
ROM V 01 00 19 03.3–.19 44.12N 8.50E 11–1 2.3,2.2L
GEN V 01 00 19 03.3 44.12N 8.52E 12 2.3L,2.2L
LDG V 01 00 19 03.5–.07 44.13N 8.52E 10 2.6L,2.5
STR V 01 00 19 04.1–.46 44.17N 8.49E 5 2.5L,2.5
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=159.0.
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=1.2km az=171.0.
LDG Event type ke. Error ellipse: s-maj=1.2km s-min=1.1km az=150.0.
STR Event type ke.
LDG V 05 18 44 08.6–.14 44.61N 7.26E 2 1.6,1.4L
GEN V 05 18 44 08.7 44.59N 7.22E 14 0.6L,1.4L ¶16504038
CSEM V 05 18 44 08.1–.36 44.61N 7.27E 20 1.3L,1.4L
LDG Event type ke. Error ellipse: s-maj=2.8km s-min=1.4km az=85.0.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=5.0km az=86.0.
LDG V 06 00 26 22.4–.09 44.61N 7.27E 2 1.5,1.2L
CSEM V 06 00 26 22.4 44.61N 7.27E 2 1.2L,1.2L ¶16504048
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=0.9km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ROM V 11 17 44 18.0–.22 46.14N 11.99E 5 2.2,1.6L
CSEM V 11 17 44 18.2–.08 46.19N 11.97E 5 2.1L,1.6L ¶601242664
VIE V 11 17 44 18.2–.27 46.21N 11.94E 8 1.9L,1.5b
ROM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=134.0.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=8.0.
VIE Error ellipse: s-maj=2.0km s-min=1.6km az=18.0.
ROM V 22 04 25 23.2–.13 44.25N 11.65E 32–2 2.0L
CSEM V 22 04 25 23.2 44.25N 11.65E 32 2.0L ¶603793185
ROM Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=58.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC V 22 04 25 46.1–1.3 44.32N–.02 11.67E–.02 37–0 153 0-6
LDG V 22 04 25 45.9–.16 44.33N 11.86E 30 2.7L ¶16532368
ISCJB V 22 04 25 45.1–.32 44.32N–.02 11.65E–.03 57–4 2.7L
GEN V 22 04 25 46.4 44.09N 11.70E 14 2.3L
PRU V 22 04 25 46.5 44.41N 11.91E 11 2.3L
CSEM V 22 04 25 46.3–.16 44.33N 11.66E 30 2.8L
ROM V 22 04 25 47.2–.15 44.26N 11.61E 33–2 2.3L
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=2.9km az=146.1.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.7km az=135.0.
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=2.3km az=87.0.
ISC V 24 21 27 54.5–1.1 44.02N–.04 12.13E–.02 10–10 42 0-3
ROM V 24 21 27 55.9–.27 43.90N 12.06E 3–2 2.5,2.1L ¶601644770
ISCJB V 24 21 27 56.6–.58 43.91N–.07 12.03E–.08 14–11 2.5,2.1L
CSEM V 24 21 27 56.7–.22 43.92N 12.06E 10 2.8L,2.1L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.6km s-min=1.2km az=42.0.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=3.9km az=37.8.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.7km az=28.0.
ISC V 24 23 05 07.1–.85 46.66N–.02 10.44E–.02 12–5 75 0-15
IASPE V 24 23 05 07.1–.89 46.66N–.02 10.45E–.02 12–5 ¶16545940
VIE V 24 23 05 07.2–.18 46.67N 10.48E 8–2 2.0L,1.4b
CSEM V 24 23 05 07.0–.07 46.66N 10.46E 12 2.5L,1.4b
ZUR V 24 23 05 07.1 46.65N 10.45E 12–2 2.1L,1.4b
ROM V 24 23 05 07.1–.24 46.65N 10.43E 11–1 2.1,1.8L
ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.4km s-min=2.7km az=32.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
VIE Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=1.6km s-min=1.3km az=22.0.
ZUR Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=40.0.
ISC V 25 18 26 44.7–1.1 45.34N–.04 12.93E–.03 14–9 47 0-2
VIE V 25 18 26 45.1–1.2 45.40N 12.91E 8 2.1L,1.8b ¶601645021
CSEM V 25 18 26 45.0–.53 45.36N 12.95E 15 2.5L,1.8b
ROM V 25 18 26 45.2–.39 45.30N 13.00E 10 2.3,1.9L
ISC Event type ke.
VIE Event type ke. Error ellipse: s-maj=8.7km s-min=3.0km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=4.8km az=155.0.
ROM Event type ke. Error ellipse: s-maj=5.4km s-min=2.1km az=146.0.
ISC V 31 03 55 33.3–.81 45.98N–.02 12.84E–.01 13–5 117 0-3
VIE V 31 03 55 32.7–.36 45.96N 12.84E 10 2.4L,1.9b ¶16554409
ROM V 31 03 55 32.4–.15 45.98N 12.87E 5 2.7,2.1L
CSEM V 31 03 55 32.7–.14 45.97N 12.82E 10 2.5L,2.1L
PRU V 31 03 55 34.4 45.97N 12.84E 12 2.5L,2.1L
ISC Event type ke.
VIE Event type ke. Error ellipse: s-maj=3.0km s-min=1.5km az=11.0.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.0km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.7km az=3.0.
ISC VI 01 10 45 55.5–.93 46.01N–.02 12.82E–.02 8–8 124 0-2
ROM VI 01 10 45 54.5–.24 46.01N 12.85E 4–3 2.5,2.0L ¶601651006
VIE VI 01 10 45 55.9–.19 46.02N 12.86E 6 2.5L,2.1b
CSEM VI 01 10 45 55.0–.10 45.98N 12.81E 5 2.5L,2.1b
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=3.3km s-min=1.4km az=161.0.
VIE Event type ke. Error ellipse: s-maj=2.3km s-min=0.9km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.4km az=174.0.
ROM VI 03 21 57 52.1–.27 46.00N 12.81E 11 2.1,1.1L
VIE VI 03 21 57 52.6–.21 45.99N 12.82E 6 1.9L,1.6b ¶601651201
CSEM VI 03 21 57 53.1–.25 46.04N 12.81E 10 1.8L,1.6b
ROM Event type ke. Error ellipse: s-maj=4.3km s-min=2.1km az=168.0.
VIE Event type ke. Error ellipse: s-maj=2.1km s-min=1.1km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=12.0.
ISC VI 11 01 06 55.9–.84 45.96N–.02 7.49E–.02 11–6 81 0-3
ROM VI 11 01 06 55.6–.15 45.96N 7.54E 10 2.0,1.3L ¶16590036
ISCJB VI 11 01 06 55.8–.33 45.97N–.02 7.48E–.03 8–5 2.0,1.3L
GEN VI 11 01 06 56.3 45.96N 7.52E 3 1.2L,1.3L
CSEM VI 11 01 06 56.4–.13 45.95N 7.50E 2 1.8L,1.3L
LDG VI 11 01 06 56.6–.04 45.95N 7.54E 2 2.0,1.9L
ZUR VI 11 01 06 56.8 45.95N 7.54E 2–3 1.6L,1.9L
VIE VI 11 01 07 05.1–1.8 46.10N 7.92E 8 1.9L,1.6b
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.6km az=20.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=32.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.0km az=120.0.
LDG Event type ke. Error ellipse: s-maj=1.0km s-min=0.6km az=121.0.
ZUR Event type ke.
VIE Event type ke. Error ellipse: s-maj=17.9km s-min=11.8km az=158.0.
ISC VI 11 18 33 09.7–.82 45.85N–.02 10.23E–.01 16–6 198 0-5
ROM VI 11 18 33 09.6–.13 45.87N 10.25E 7–1 2.6,2.4L ¶16590050
LDG VI 11 18 33 09.2–.09 45.81N 10.16E 2 2.5L,2.4L
ZUR VI 11 18 33 09.5 45.85N 10.20E 4–4 2.4L,2.4L
CSEM VI 11 18 33 09.6–.11 45.88N 10.25E 10 3.1L,2.4L
GEN VI 11 18 33 10.6 45.88N 10.15E 1 2.3L,2.4L
VIE VI 11 18 33 11.5–.59 45.96N 10.35E 6–31 2.5L,1.6b
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.9km az=41.0.
LDG Event type ke. Error ellipse: s-maj=2.0km s-min=1.7km az=120.0.
ZUR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=176.0.
VIE Event type ke. Error ellipse: s-maj=3.6km s-min=2.1km az=22.0.
ISC VI 12 02 50 23.4–.74 44.44N–.02 9.37E–.01 17–4 475 0-20
ROM VI 12 02 50 22.8–.13 44.51N 9.39E 7–1 3.2L ¶16591645
GEN VI 12 02 50 22.8 44.56N 9.44E 1 3.2L
IDC VI 12 02 50 23.4–1.8 44.58N 9.49E 0 3.3,3.3L
CSEM VI 12 02 50 23.3–.10 44.45N 9.43E 10 3.6L,3.3L
ISCJB VI 12 02 50 23.6–.25 44.48N–.02 9.42E–.01 16–3 3.6L,3.3L
LDG VI 12 02 50 24.7–.08 44.47N 9.43E 2 3.4L,3.2
PRU VI 12 02 50 25.7 44.65N 9.61E 0 3.4L,3.2
STR VI 12 02 50 26.2–.22 44.53N 9.26E 10 3.5L,3.2
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.4km s-min=1.1km az=25.0.
IDC Error ellipse: s-maj=36.4km s-min=16.2km az=123.0.
CSEM Event type ke. Error ellipse: s-maj=2.9km s-min=1.9km az=177.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=167.6.
LDG Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=7.0.
STR Event type ke.
ISC VI 12 02 56 59.1–.80 44.50N–.02 9.43E–.02 15–5 89 0-5
ISCJB VI 12 02 56 58.6–.32 44.52N–.02 9.42E–.03 13–3 ¶603801078
ROM VI 12 02 56 58.6–.13 44.54N 9.41E 2–2 2.1L
CSEM VI 12 02 56 58.7–.17 44.50N 9.42E 5 2.1L
GEN VI 12 02 56 58.5 44.57N 9.45E 0 1.9L
LDG VI 12 02 56 59.4–.40 44.37N 9.50E 2 2.3L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=3.2km az=18.2.
ROM Event type ke. Error ellipse: s-maj=2.3km s-min=1.0km az=87.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=7.0.
LDG Event type ke. Error ellipse: s-maj=9.5km s-min=5.0km az=97.0.
ISC VI 12 02 57 32.8–.79 44.48N–.02 9.40E–.02 14–5 169 0-5
ROM VI 12 02 57 31.9–.14 44.54N 9.41E 6–2 2.6L **¶16617345**
ISCJB VI 12 02 57 32.0–.28 44.50N–.02 9.40E–.02 12–2 2.6L
GEN VI 12 02 57 32.5 44.56N 9.44E 4 2.5L
CSEM VI 12 02 57 32.4–.14 44.49N 9.41E 5 2.8L
LDG VI 12 02 57 34.0–.19 44.43N 9.38E 2 2.8L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.4km az=174.1.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.7km az=178.0.
LDG Event type ke. Error ellipse: s-maj=4.0km s-min=3.1km az=74.0.
ISC VI 12 09 07 04.4–.84 44.58N–.01 10.34E–.02 19–2 206 0-9
CSEM VI 12 09 07 03.8–.13 44.62N 10.34E 12 2.8L **¶16591655**
GEN VI 12 09 07 03.9 44.63N 10.40E 0 2.4L
ISCJB VI 12 09 07 04.6–.22 44.57N–.02 10.32E–.02 26–2 2.4L
LDG VI 12 09 07 04.8–.08 44.57N 10.34E 2 2.8L
ROM VI 12 09 07 04.4–.10 44.59N 10.34E 22–2 2.6,2.4L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=3.0km s-min=2.7km az=115.0.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.3km az=145.0.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.4km az=55.0.
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.4km az=74.0.
ROM VI 12 17 54 34.9–.15 44.54N 9.37E 5–0 1.8L
¶603482765
ROM Event type ke. Error ellipse: s-maj=2.4km s-min=0.5km az=79.0.
ROM VI 12 17 54 51.7–.22 44.54N 9.37E 3–0 1.8L
¶603482766
ROM Event type ke. Error ellipse: s-maj=3.9km s-min=0.8km az=79.0.
ISC VI 12 17 55 27.7–.81 44.49N–.02 9.42E–.01 13–5 293 0-7
ISCJB VI 12 17 55 26.6–.24 44.53N–.01 9.40E–.02 7–2 **¶16591673**
CSEM VI 12 17 55 26.9–.10 44.51N 9.41E 2 3.2L
ROM VI 12 17 55 27.0–.15 44.52N 9.41E 7–1 3.0L,2.9
GEN VI 12 17 55 27.1 44.56N 9.45E 1 3.0L,2.9
LDG VI 12 17 55 29.1–.14 44.41N 9.47E 10 3.2L,2.9
STR VI 12 17 55 29.8–.29 44.59N 9.27E 10 3.2L,2.9
PRU VI 12 17 55 30.3 44.64N 9.55E 0 3.2L,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=1.8km az=171.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.0km az=178.0.
ROM Event type ke. Error ellipse: s-maj=1.6km s-min=1.4km az=28.0.
LDG Event type ke. Error ellipse: s-maj=3.3km s-min=2.8km az=19.0.
STR Event type ke.
ROM VI 13 20 03 24.5–.27 45.87N 10.26E 8–3 2.0,1.3L
CSEM VI 13 20 03 24.6–.14 45.86N 10.22E 10 2.0,1.3L **¶601654188**
VIE VI 13 20 03 27.4–.95 46.00N 10.17E 10 1.4L,1.1b
ROM Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=114.0.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.7km az=20.0.
VIE Event type ke. Error ellipse: s-maj=6.7km s-min=4.8km az=59.0.
ISC VI 19 14 35 34.9–.71 44.15N–.02 10.81E–.01 14–4 3.9b 333 0-76
GEN VI 19 14 35 33.7 44.19N 10.85E 17 3.8L **¶16632979**
CSEM VI 19 14 35 34.5–.09 44.14N 10.81E 10 3.8L
ROM VI 19 14 35 34.1–.14 44.15N 10.82E 6–1 3.6L
ISCJB VI 19 14 35 34.4–.19 44.17N–.02 10.80E–.02 23–2 3.9b,3.5s
PRU VI 19 14 35 35.9 44.13N 10.97E 15 3.9b,3.5s
LDG VI 19 14 35 35.8–.10 44.15N 11.01E 15 3.6L,3.5s
IDC VI 19 14 35 36.4–5.2 44.21N 10.84E 18–35 3.7,3.7
BEO VI 19 14 35 58.4–1.0 44.87N 13.30E 0 3.4,3.7
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=2.4km s-min=1.8km az=11.0.
ROM Event type ke. Error ellipse: s-maj=1.7km s-min=1.3km az=174.0.
ISCJB Event type ke. Error ellipse: s-maj=2.8km s-min=1.9km az=7.3.
LDG Event type ke. Error ellipse: s-maj=3.0km s-min=2.3km az=8.0.
IDC Error ellipse: s-maj=20.7km s-min=13.8km az=105.0.
BEO Event type ke.
ISC VI 19 16 49 02.2–.74 44.16N–.01 10.77E–.01 18–4 292 0-87
GEN VI 19 16 49 01.3 44.19N 10.84E 18 3.5L **¶602729326**
LDG VI 19 16 49 02.9–.09 44.08N 10.88E 10 3.4L
IDC VI 19 16 49 02.6–1.4 44.33N 10.92E 0 3.7b,3.6
ISCJB VI 19 16 49 02.1–.20 44.14N–.02 10.75E–.02 25–2 4.1s,3.7b
ROM VI 19 16 49 02.2–.15 44.14N 10.81E 9–1 3.2L,3.7b
CSEM VI 19 16 49 02.3–.11 44.12N 10.80E 15 3.4L,3.7b
PRU VI 19 16 49 03.8 44.23N 11.06E 1 3.4L,3.7b
STR VI 19 16 49 10.6–.18 44.43N 10.06E 10 3.3L,3.7b
ISC Event type ke.
LDG Event type ke. Error ellipse: s-maj=2.4km s-min=1.6km az=167.0.
IDC Error ellipse: s-maj=25.5km s-min=15.5km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=172.9.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.5km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.3km az=3.0.
STR Event type ke.
ROM VI 19 16 49 39.1–.09 44.17N 10.82E 9–0 2.6L
CSEM VI 19 16 49 39.6–.14 44.20N 10.82E 10 3.0L **¶16632983**
GEN VI 19 16 49 39.2 44.16N 10.81E 19 2.9L
ROM Event type ke. Error ellipse: s-maj=1.2km s-min=0.7km az=171.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=1.9km az=12.0.
ISC VI 19 19 05 37.9–.88 44.16N–.02 10.80E–.02 18–3 122 0-5
ISCJB VI 19 19 05 37.7–.27 44.16N–.03 10.78E–.03 23–3 **¶16633285**
ROM VI 19 19 05 37.6–.11 44.17N 10.81E 9–1 2.4L
GEN VI 19 19 05 37.2 44.19N 10.84E 19 2.7L
CSEM VI 19 19 05 38.0–.15 44.18N 10.81E 12 2.7L
LDG VI 19 19 05 38.8–.50 44.07N 10.86E 10 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.1km az=178.2.
ROM Event type ke. Error ellipse: s-maj=1.5km s-min=0.9km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=169.0.
LDG Event type ke. Error ellipse: s-maj=11.1km s-min=4.4km az=103.0.
ISC VI 21 10 37 38.2–.85 44.68N–.02 7.23E–.02 17–6 78 0-2
ISCJB VI 21 10 37 37.6–.30 44.68N–.01 7.20E–.03 14–3 **¶16658790**
ROM VI 21 10 37 37.9–.17 44.67N 7.20E 17–3 2.1,1.8L
GEN VI 21 10 37 38.6 44.68N 7.23E 11 1.6L,1.8L
CSEM VI 21 10 37 38.1–.09 44.68N 7.23E 10 2.5L,1.8L
LDG VI 21 10 37 38.2–.10 44.69N 7.26E 2 2.5L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.4km az=165.8.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=2.4km az=95.0.
CSEM Event type ke. Error ellipse: s-maj=2.0km s-min=1.4km az=73.0.
LDG Event type ke. Error ellipse: s-maj=1.9km s-min=1.1km az=76.0.
ISC VI 23 15 02 10.7–.91 45.79N–.02 9.41E–.02 15–7 116 0-3
ZUR VI 23 15 02 10.3 45.81N 9.44E 10–3 2.4L **¶602729471**
ROM VI 23 15 02 10.8–.14 45.83N 9.39E 10 2.5,2.1L
CSEM VI 23 15 02 10.3–.13 45.84N 9.42E 15 2.5L,2.1L
VIE VI 23 15 02 11.5–.65 45.83N 9.58E 8 2.5L,2.1b
GEN VI 23 15 02 11.1 45.82N 9.40E 9 2.2L,2.1b
LDG VI 23 15 02 11.1–.06 45.86N 9.42E 10 2.5L,2.1b
ISC Event type ke.
ZUR Event type ke.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.5km az=180.0.
CSEM Event type ke. Error ellipse: s-maj=3.1km s-min=2.2km az=163.0.
VIE Event type ke. Error ellipse: s-maj=3.9km s-min=3.2km az=50.0.
LDG Event type ke. Error ellipse: s-maj=1.6km s-min=1.2km az=163.0.
ISC VI 23 23 19 20.5–.81 44.33N–.02 7.16E–.02 14–5 102 0-4
ISCJB VI 23 23 19 19.8–.27 44.32N–.02 7.13E–.02 11–2 **¶16649787**
ROM VI 23 23 19 20.2–.17 44.34N 7.18E 8–1 2.4,2.1L
GEN VI 23 23 19 20.5 44.32N 7.14E 8 1.9L,2.1L
CSEM VI 23 23 19 20.2–.07 44.33N 7.16E 10 2.6L,2.1L
LDG VI 23 23 19 20.8–.08 44.32N 7.17E 2 2.7L,2.4

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.3km az=140.7.
ROM Event type ke. Error ellipse: s-maj=3.2km s-min=0.9km az=60.0.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.3km az=54.0.
LDG Event type ke. Error ellipse: s-maj=2.1km s-min=1.4km az=46.0.
ISC VI 24 02 09 02.3–1.0 44.10N–.02 8.95E–.01 19–3 124 0-3
ISCJB VI 24 02 09 02.9–.33 44.05N–.03 8.97E–.02 20–5 **¶601615115**
ROM VI 24 02 09 02.7–.10 44.09N 8.97E 14–5 2.3,2.0L
CSEM VI 24 02 09 02.3–.14 44.08N 8.95E 15 2.8L,2.0L
LDG VI 24 02 09 02.7–.26 44.18N 8.99E 15 2.6L,2.4
GEN VI 24 02 09 03.0 44.08N 8.96E 4 1.9L,2.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=2.5km az=1.3.
ROM Event type ke. Error ellipse: s-maj=2.0km s-min=1.0km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.1km az=178.0.
LDG Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=86.0.
ISC VI 28 20 50 19.0–1.0 44.05N–.03 8.61E–.02 18–4 88 0-2
CSEM VI 28 20 50 18.8–.23 44.03N 8.61E 10 2.1L **¶601615140**
ISCJB VI 28 20 50 19.4–.53 44.05N–.04 8.62E–.04 24–5 2.1L
LDG VI 28 20 50 19.3–.33 44.07N 8.63E 15 2.5,2.1L
ROM VI 28 20 50 19.7–.28 44.09N 8.58E 9–1 2.0,1.6L
GEN VI 28 20 50 20.0 44.07N 8.61E 2 1.5L,1.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.2km az=168.0.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=164.7.
LDG Event type ke. Error ellipse: s-maj=6.7km s-min=4.0km az=44.0.
ROM Event type fe. Error ellipse: s-maj=2.9km s-min=1.9km az=155.0.
ISC VI 29 09 39 37.1–.84 45.82N–.02 12.62E–.01 14–6 185 0-5
ISCJB VI 29 09 39 35.6–.27 45.80N–.02 12.60E–.02 7–3 **¶16685785**
ROM VI 29 09 39 35.8–.30 45.79N 12.66E 5–2 3.0L,3.0
VIE VI 29 09 39 36.7–.22 45.83N 12.61E 10 3.2L,2.5b
CSEM VI 29 09 39 36.2–.11 45.81N 12.60E 10 3.5L,2.5b
PRU VI 29 09 39 38.3 45.85N 12.64E 0 3.5L,2.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=170.4.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.7km az=162.0.
VIE Event type ke. Error ellipse: s-maj=2.0km s-min=0.9km az=3.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.4km az=171.0.

(546) Austria.

ISC I 05 23 52 15.3–.91 47.71N–.01 15.92E–.02 11–7 122 0-4
IPEC I 05 23 52 14.9–.11 47.67N 16.06E 8–0 2.5L **¶15908142**
CSEM I 05 23 52 14.9–.17 47.71N 15.93E 2 3.3L
VIE I 05 23 52 14.9–.11 47.66N 15.95E 10–1 2.6L,2.0b
PRU I 05 23 52 16.5 47.74N 15.96E 2 2.6L,2.0b
ISC Event type fe.
IPEC Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=108.0.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=2.5km az=108.0.
VIE Event type fe. Error ellipse: s-maj=1.0km s-min=0.7km az=130.0. felt 4-5 ems98 at Gloggnitz / Lower Austria.
PRU N Of Gloggnitz.
VIE I 08 23 56 39.0–.28 47.34N 11.39E 9–3 1.4L
CSEM I 08 23 56 39.0 47.34N 11.39E 9 1.4L **¶601241351**
VIE Error ellipse: s-maj=3.8km s-min=0.8km az=15.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC I 29 06 11 58.9–1.0 47.15N–.02 14.64E–.02 6–10 90 1-4
ISCJB I 29 06 11 57.2–.34 47.18N–.02 14.61E–.03 3–6 **¶15995064**
VIE I 29 06 11 58.8–.14 47.12N 14.63E 3 2.3L,1.8b
CSEM I 29 06 11 58.6–.11 47.14N 14.62E 5 2.9L,1.8b
ROM I 29 06 11 59.0–.33 47.10N 14.68E 10 2.4,2.1L
PRU I 29 06 11 59.9 47.13N 14.64E 0 2.4,2.1L
BGR I 29 06 11 59.1–.38 47.14N 14.63E 10 2.4L,2.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.4km s-min=2.5km az=176.8.
VIE Error ellipse: s-maj=1.2km s-min=1.1km az=160.0.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.8km az=85.0.
ROM Event type ke. Error ellipse: s-maj=21.1km s-min=1.9km az=160.0.
BGR Event type ke. Error ellipse: s-maj=3.3km s-min=3.3km az=30.0.
ISC I 31 11 44 25.8–.98 47.26N–.02 10.72E–.02 10–7 66 0-3
ISCJB I 31 11 44 25.0–.38 47.25N–.02 10.73E–.03 14–4 **¶15995131**
VIE I 31 11 44 25.6–.25 47.25N 10.73E 9–5 2.7L,1.6b
CSEM I 31 11 44 25.6–.12 47.25N 10.72E 10 2.5L,1.6b
ROM I 31 11 44 26.2–.95 47.22N 10.78E 10 2.3,1.3L
BGR I 31 11 44 27.2–.44 47.26N 10.68E 10 2.4L,1.3L
PRU I 31 11 44 27.3 47.38N 10.70E 5 2.4L,1.3L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=3.2km az=153.9.
VIE Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=145.0. felt 4 ems98 at Imst / Tyrol.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=154.0.
ROM Event type ke. Error ellipse: s-maj=9.9km s-min=5.6km az=1.0.
BGR Event type fe. Error ellipse: s-maj=6.7km s-min=3.3km az=3.0.
ISC II 05 01 06 36.3–1.1 47.16N–.01 14.13E–.02 5–10 133 1-4
CSEM II 05 01 06 35.7–.07 47.19N 14.13E 2 3.1L **¶16008960**
VIE II 05 01 06 35.7–.13 47.15N 14.13E 10–2 2.5L,1.6b
PRU II 05 01 06 36.6 47.17N 14.16E 1 2.5L,1.6b
BGR II 05 01 06 36.6–.34 47.13N 14.06E 10 2.1L,1.6b
ROM II 05 01 06 38.2–.36 47.07N 14.09E 10 2.5,2.1L
ISC Event type fe.
CSEM Event type ke. Error ellipse: s-maj=1.7km s-min=1.2km az=112.0.
VIE Event type fe. Error ellipse: s-maj=1.3km s-min=0.9km az=176.0. felt 4 ems98 at Murau / Styria.
BGR Event type fe. Error ellipse: s-maj=5.6km s-min=3.3km az=74.0.
ROM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=171.0.
CSEM II 22 00 31 30.4–.17 47.79N 16.14E 15 1.5L
IPEC II 22 00 31 30.9–.08 47.76N 16.18E 13–1 2.0L **¶16154790**
VIE II 22 00 31 30.5–.12 47.76N 16.17E 14–1 2.3L,1.4b
PRU II 22 00 31 31.6 47.81N 16.16E 7 2.3L,1.4b
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=3.3km az=169.0.
IPEC Event type ke. Error ellipse: s-maj=1.0km s-min=0.7km az=115.0.
VIE Event type fe. Error ellipse: s-maj=1.3km s-min=1.0km az=144.0. felt 3-4 ems98 at Pitten / Lower Austria.
VIE III 07 11 24 58.2–.27 47.14N 11.18E 6–3 1.2b,0.9L
¶601241580
VIE Error ellipse: s-maj=1.8km s-min=1.2km az=59.0.
ISC III 11 01 06 33.1–.76 46.29N–.01 13.28E–.01 7–4 214 0-5
ROM III 11 01 06 32.6–.12 46.29N 13.28E 8–1 2.7,2.6L **¶16304058**
LJU III 11 01 06 32.9 46.29N 13.25E 10 2.4L,2.6L
IASPE III 11 01 06 33.1–.79 46.28N–.02 13.27E–.01 7–4 2.4L,2.6L
CSEM III 11 01 06 33.1–.10 46.29N 13.26E 2 3.0L,2.6L
PRU III 11 01 06 35.9 46.35N 13.35E 9 3.0L,2.6L
ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=1.9km s-min=1.6km az=155.0.
IASPE Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=0.7. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, <i>Seism. Res. Let.</i>, 80, 465-472, 2009.
CSEM Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=4.0.
LJU III 12 04 15 50.7 46.18N 13.93E 10 0.0L
CSEM III 12 04 15 50.7 46.18N 13.93E 0 0.0L **¶601123987**
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC III 12 08 01 19.3–1.0 47.41N–.01 12.44E–.01 8–8 431 0-9
ISCJB III 12 08 01 17.5–.18 47.450N–.01 12.41E–.01 2–1 **¶16330866**
CSEM III 12 08 01 19.4–.08 47.41N 12.44E 5 3.7L
LDG III 12 08 01 19.4–.10 47.41N 12.50E 2 3.4L
BGR III 12 08 01 20.8–.29 47.38N 12.50E 10 3.4L
VIE III 12 08 01 20.4–.25 47.35N 12.44E 6–2 3.5L,2.8b
ROM III 12 08 01 21.6–.41 47.34N 12.45E 10 3.2L,2.8b
PRU III 12 08 01 21.4 47.42N 12.53E 13 3.2L,2.8b
GEN III 12 08 01 23.4 47.45N 12.47E 27 3.6L,2.8b
STR III 12 08 01 25.6–.23 47.44N 12.07E 10 3.3L,2.8b
ISC Event type fe.

ISCJB Event type fe. Error ellipse: s-maj=1.6km s-min=1.6km az=27.4.
CSEM Event type ke. Error ellipse: s-maj=1.8km s-min=1.7km az=43.0.
LDG Event type ke. Error ellipse: s-maj=2.7km s-min=1.6km az=20.0.
BGR Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=161.0.
VIE Event type fe. Error ellipse: s-maj=2.1km s-min=1.0km az=18.0. felt 4-5 ems98 at Jochberg / Tyrol.
ROM Event type ke. Error ellipse: s-maj=6.1km s-min=2.2km az=22.0.
PRU Kitzbueheler Alps.
STR Event type ke.

LJU	**III**	**12 22 19 28.7**	**46.26N**	**13.58E**	**14**	**0.2L**	**¶601123989**
ROM	**III**	**13 11 11 52.9–.16**	**46.43N**	**13.04E**	**9–2**	**1.6,1.0L**	
CSEM	III	13 11 11 52.9	46.43N	13.04E	9	1.6,1.0L	**¶600314894**

ROM Event type ke. Error ellipse: s-maj=2.4km s-min=1.5km az=1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

ISC	**IV**	**01 06 00 27.1–.79**	**46.06N–.02**	**13.79E–.02**	**12–4**		**106 0-2**
ROM	IV	01 06 00 25.3–.48	46.08N	13.91E	8–2	2.5,2.0L	**¶600315768**
ISCJB	IV	01 06 00 26.7–.44	46.05N–.02	13.80E–.02	14–4	2.5,2.0L	
LJU	IV	01 06 00 26.7	46.06N	13.80E	14	1.9L,2.0L	
CSEM	IV	01 06 00 27.2–.10	46.06N	13.80E	10	2.4L,2.0L	
VIE	IV	01 06 00 27.4–.56	46.05N	13.81E	11–8	2.0L,1.5b	

ISC Event type ke.
ROM Event type ke. Error ellipse: s-maj=4.6km s-min=2.5km az=72.0.
ISCJB Event type ke. Error ellipse: s-maj=3.3km s-min=2.3km az=32.6.
CSEM Event type ke. Error ellipse: s-maj=2.2km s-min=1.7km az=32.0.
VIE Error ellipse: s-maj=3.5km s-min=2.1km az=23.0.

VIE	**IV**	**01 09 52 47.9–.41**	**47.49N**	**12.86E**	**0**		
CSEM	IV	01 09 52 48.7	47.50N	12.86E	0	1.4L	**¶601242517**

VIE Event type sr. Error ellipse: s-maj=3.5km s-min=3.3km az=4.0. Suspected Mining induced.
CSEM Event type sr. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0. Suspected Mining induced.

ISC	**IV**	**05 07 14 26.3–1.1**	**47.66N–.01**	**13.77E–.02**	**4–9**		**153 0-4**
VIE	IV	05 07 14 25.8–.41	47.66N	13.71E	1–8	3.1L,2.7b	**¶16413452**
IPEC	IV	05 07 14 26.1–.07	47.61N	13.76E	2–0	3.1L,2.7b	
CSEM	IV	05 07 14 26.4–.14	47.66N	13.77E	2	3.5L,2.7b	
BGR	IV	05 07 14 28.3–.21	47.67N	13.73E	10	3.2L,2.7b	
PRU	IV	05 07 14 29.4	47.80N	13.80E	0	3.2L,2.7b	

ISC Event type ke.
VIE Error ellipse: s-maj=5.0km s-min=3.0km az=169.0. felt 4 ems98 at Altaussee / Styria.
IPEC Event type ke. Error ellipse: s-maj=0.7km s-min=0.5km az=117.0.
CSEM Event type ke. Error ellipse: s-maj=2.8km s-min=2.5km az=127.0.
BGR Event type fe. Error ellipse: s-maj=3.3km s-min=3.3km az=66.0.

LJU	**IV**	**06 07 40 17.0**	**46.32N**	**13.64E**	**8**	**0.6L**	
CSEM	IV	06 07 40 17.4–.44	46.36N	13.65E	2	0.6L	**¶601124189**

CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=9.0km az=52.0.

ISC	**IV**	**10 17 13 10.4–.75**	**46.48N–.01**	**13.11E–.01**	**13–3**		**166 0-4**
IASPE	IV	10 17 13 10.4–.76	46.48N–.02	13.11E–.01	14–4		**¶16417130**
ROM	IV	10 17 13 10.8–.17	46.46N	13.10E	5	2.4,2.1L	
VIE	IV	10 17 13 10.7–.18	46.49N	13.09E	13–3	2.3L,1.7b	
CSEM	IV	10 17 13 11.0–.07	46.49N	13.10E	10	2.6L,1.7b	
PRU	IV	10 17 13 13.1	46.51N	13.10E	0	2.6L,1.7b	

ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=2.3km s-min=1.9km az=12.9. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=2.6km s-min=1.2km az=163.0.
VIE Error ellipse: s-maj=1.5km s-min=0.8km az=18.0.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=19.0.

VIE	**IV**	**14 04 57 00.5–.18**	**47.22N**	**14.70E**	**8**	**1.7L,1.3b**	
CSEM	IV	14 04 57 00.5–.13	47.22N	14.69E	10	2.1L,1.3b	**¶601242552**

VIE Error ellipse: s-maj=1.9km s-min=1.1km az=73.0.
CSEM Event type ke. Error ellipse: s-maj=3.2km s-min=2.0km az=74.0.

VIE	**IV**	**23 23 50 00.1–.35**	**47.06N**	**13.23E**	**0**	**1.2L,1.0b**	**¶601242587**

VIE Error ellipse: s-maj=3.6km s-min=1.9km az=6.0.

ISC	**IV**	**24 00 05 37.9–.78**	**46.29N–.01**	**13.65E–.01**	**10–4**		**230 0-5**
IASPE	IV	24 00 05 38.0–.78	46.29N–.02	13.65E–.01	11–4		**¶16452985**
ROM	IV	24 00 05 37.7–.27	46.30N	13.63E	5–2	2.9,2.3L	
LJU	IV	24 00 05 38.1	46.30N	13.65E	8	2.2L,2.3L	
CSEM	IV	24 00 05 38.2–.09	46.30N	13.65E	2	2.9L,2.3L	
VIE	IV	24 00 05 38.5–.24	46.31N	13.68E	5–4	2.5L,2.0b	
PRU	IV	24 00 05 39.1	46.27N	13.66E	0	2.5L,2.0b	

ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=2.3km s-min=1.8km az=11.3. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ROM Event type ke. Error ellipse: s-maj=3.0km s-min=2.0km az=79.0.
CSEM Event type ke. Error ellipse: s-maj=2.5km s-min=1.6km az=16.0.
VIE Error ellipse: s-maj=1.9km s-min=1.4km az=8.0.

LJU	**IV**	**25 00 58 57.2**	**46.35N**	**13.67E**	**9**	**0.1L**	
CSEM	IV	25 00 58 57.2	46.35N	13.67E	0	0.1L	**¶601124341**

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

LJU	**IV**	**26 01 07 19.5**	**46.32N**	**13.64E**	**8**	**0.5L**	
CSEM	IV	26 01 07 19.5	46.32N	13.64E	0	0.5L	**¶601124356**

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

CSEM	**V**	**17 22 50 58.9–.14**	**47.38N**	**13.69E**	**10**	**2.2L**	
VIE	V	17 22 50 59.0–.23	47.36N	13.70E	10	1.7L,1.2b	**¶16528554**
PRU	V	17 22 51 00.2	47.40N	13.69E	0	1.7L,1.2b	

CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=2.2km az=111.0.
VIE Event type ke. Error ellipse: s-maj=1.9km s-min=1.3km az=149.0.
PRU Near Schladming.

CSEM	**V**	**24 11 59 07.5–3.1**	**47.21N**	**10.70E**	**2**	**1.3L**	
VIE	V	24 11 59 02.1–.15	46.69N	10.45E	4	1.3L	**¶602385962**

CSEM Event type ke. Error ellipse: s-maj=66.1km s-min=25.3km az=128.0.
VIE Event type ke.

VIE	**V**	**24 20 34 24.4–.44**	**47.70N**	**12.83E**	**3**	**0.9L**	
CSEM	V	24 20 34 26.1–.33	47.72N	12.96E	15	1.6L	**¶16546356**
PRU	V	24 20 34 33.7	48.44N	15.16E	0	1.6L	

VIE Event type ke. Error ellipse: s-maj=3.5km s-min=1.4km az=74.0.
CSEM Event type ke. Error ellipse: s-maj=9.0km s-min=5.0km az=148.0.

CSEM	**VI**	**01 04 00 26.1**	**46.91N**	**13.94E**	**0**	**1.7L**	
VIE	VI	01 04 00 26.1–.19	46.91N	13.94E	0	1.7L,1.0b	**¶601124728**

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
VIE Event type ke. Error ellipse: s-maj=1.6km s-min=1.1km az=14.0.

ISC	**VI**	**04 14 36 25.9–1.1**	**47.69N–.02**	**15.78E–.02**	**4–10**		**62 0-3**
IPEC	VI	04 14 36 25.8–1.1	47.67N	15.86E	1–15	2.6L	**¶16558739**
VIE	VI	04 14 36 25.5–.29	47.64N	15.89E	5	2.6L,2.2b	
CSEM	VI	04 14 36 25.4–.17	47.71N	15.75E	2	2.6L,2.2b	
PRU	VI	04 14 36 26.6	47.71N	15.78E	0	2.6L,2.2b	

ISC Event type ke.
IPEC Event type ke. Error ellipse: s-maj=9.7km s-min=7.7km az=93.0.
VIE Event type ke. Error ellipse: s-maj=2.9km s-min=1.6km az=113.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=2.8km az=105.0.

ISC	**VI**	**13 20 20 55.1–1.0**	**47.62N–.01**	**14.36E–.02**	**6–9**		**93 0-4**
IPEC	VI	13 20 20 54.8–.07	47.60N	14.35E	3–1	2.0L	**¶16613935**
VIE	VI	13 20 20 54.7–.17	47.60N	14.34E	6	2.2L,1.6b	
CSEM	VI	13 20 20 54.6–.12	47.64N	14.35E	2	2.5L,1.6b	
BGR	VI	13 20 20 55.5–.41	47.63N	14.41E	10	2.0L,1.6b	
PRU	VI	13 20 20 56.1	47.66N	14.38E	3	2.0L,1.6b	

ISC Event type ke.
IPEC Event type ke. Error ellipse: s-maj=0.7km s-min=0.4km az=89.0.
VIE Event type ke. Error ellipse: s-maj=1.5km s-min=1.1km az=179.0.
CSEM Event type ke. Error ellipse: s-maj=2.6km s-min=2.0km az=110.0.
BGR Event type ke. Error ellipse: s-maj=5.6km s-min=4.4km az=87.0.
PRU E Of Spital Am Pyhrn.

LJU	**VI**	**20 20 49 07.6**	**46.29N**	**13.64E**	**4**	**0.4L**	
CSEM	VI	20 20 49 07.5–.26	46.32N	13.63E	2	0.4L	**¶601124875**

CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=4.4km az=138.0.

ISC	**VI**	**21 22 14 31.8–.77**	**47.25N–.01**	**11.26E–.01**	**10–4**		**367 0-8**
ISCJB	VI	21 22 14 30.7–.20	47.30N–.01	11.21E–.01	2–1		**¶16643045**
ROM	VI	21 22 14 31.9–.15	47.24N	11.27E	10	2.6L	
VIE	VI	21 22 14 31.8–.19	47.23N	11.24E	9–2	2.9L,2.3b	
CSEM	VI	21 22 14 31.7–.08	47.27N	11.27E	2	3.1L,2.3b	
IASPE	VI	21 22 14 31.8–.86	47.25N–.02	11.23E–.02	10–5	3.1L,2.3b	
BGR	VI	21 22 14 33.1–.20	47.23N	11.26E	10	2.7L,2.3b	
PRU	VI	21 22 14 33.7	47.32N	11.31E	4	2.7L,2.3b	
LDG	VI	21 22 14 33.7–.13	47.25N	11.31E	5	2.9L,2.3b	
STR	VI	21 22 14 37.7–.28	47.30N	10.88E	5	2.9L,2.3b	

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=1.7km s-min=1.5km az=162.6.
ROM Event type ke. Error ellipse: s-maj=2.1km s-min=1.2km az=167.0.
VIE Event type ke. Error ellipse: s-maj=1.2km s-min=1.0km az=2.0.
CSEM Event type ke. Error ellipse: s-maj=1.9km s-min=1.5km az=156.0.
IASPE Event type ke. Error ellipse: s-maj=3.5km s-min=2.8km az=6.8. GT5 selection from ISC bulletin. GT5 identified by Bondˆ¡r and McLaughlin (2009) selection criteria. Bondˆ¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
BGR Event type fe. Error ellipse: s-maj=3.3km s-min=2.2km az=167.0. Reports of slight damage of buildings like fissures in the plastering in the epicentral region.
PRU Near Innsbruck.
LDG Event type ke. Error ellipse: s-maj=3.7km s-min=2.5km az=25.0.
STR Event type ke.

(547) Czech and Slovak Republics.

ISC	**IV**	**19 05 17 39.1–.84**	**49.68N–.03**	**17.27E–.02**	**13–6**		**53 0-3**
ISCJB	IV	19 05 17 38.3–.39	49.70N–.02	17.15E–.03	7–4		**¶16450766**
VIE	IV	19 05 17 38.5–.64	49.72N	17.19E	6	2.6L,2.0b	
IPEC	IV	19 05 17 39.2–.03	49.69N	17.29E	13–0	2.0L,2.0b	
CSEM	IV	19 05 17 39.0–.15	49.68N	17.25E	8	2.8L,2.0b	

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.0km az=166.8.
VIE Error ellipse: s-maj=9.6km s-min=1.8km az=146.0.
IPEC Event type ke. Error ellipse: s-maj=0.1km s-min=0.1km az=11.0.
CSEM Event type ke. Error ellipse: s-maj=3.9km s-min=2.6km az=123.0.

(548) Poland.

ISC	**II**	**17 01 58 57.6–1.0**	**51.55N–.06**	**16.00E–.03**	**8**		**15 1-4** **¶602903482**

ISC Event type ke.

ISC	**III**	**01 20 18 41.3–1.3**	**51.42N–.06**	**16.29E–.04**	**0**		**28 1-3** **¶603515322**

ISC Event type ke.

ISC	**III**	**11 18 58 03.1–1.3**	**51.48N–.06**	**15.97E–.03**	**10**		**29 1-4** **¶603515454**

ISC Event type ke.

ISC	**III**	**22 17 26 50.8–2.4**	**51.6N–.10**	**16.07E–.08**	**10**		**14 1-2** **¶603515302**

ISC Event type ke.

PRU	**III**	**23 10 19 39.0**	**51.22N**	**19.10E**	**0**		
CSEM	III	23 10 19 38.4–2.3	51.21N	19.02E	5		**¶16373195**

PRU Belchatow.
CSEM Event type ke. Error ellipse: s-maj=46.9km s-min=18.8km az=26.0.

ISC	**IV**	**20 16 59 16.3–1.4**	**51.50N–.07**	**15.91E–.03**	**0**		**30 1-3** **¶603516114**

ISC Event type ke.

ISC	**IV**	**21 16 14 26.9–1.2**	**51.41N–.05**	**16.06E–.03**	**0**		**36 1-4** **¶603516115**

ISC Event type ke.

ISC	**IV**	**21 18 26 12.4–1.5**	**51.57N–.06**	**15.99E–.03**	**8–13**		**33 1-4** **¶603516116**

ISC Event type ke.

ISC	**IV**	**22 09 58 33.2–2.7**	**50.2N–.10**	**19.1E–.10**	**0**		**9 0-2** **¶603516074**

ISC Event type ke.

ISC	**IV**	**27 17 46 10.6–.81**	**50.13N–.04**	**19.05E–.02**	**0**		**32 0-4** **¶603516151**

ISC Event type ke.

ISC	**IV**	**30 03 33 22.0–1.1**	**50.06N–.05**	**19.19E–.06**	**5**		**10 0-2** **¶603516174**

ISC Event type ke.

ISC	**V**	**06 12 02 49.3–1.3**	**49.10N–.04**	**20.24E–.03**	**1–18**		**12 0-1** **¶603797413**

ISC Event type ke.

ISC	**V**	**08 13 09 45.2–1.9**	**51.49N–.09**	**15.99E–.05**	**0**		**27 1-3** **¶603797436**

ISC Event type ke.

ISC	**V**	**22 08 02 56.3–1.9**	**51.57N–.08**	**16.03E–.06**	**0**		**24 1-3** **¶603797439**

ISC Event type ke.

ISC	**V**	**29 00 37 59.6–1.6**	**51.48N–.07**	**16.05E–.04**	**0**		**29 1-3** **¶603797437**

ISC Event type ke.

ISC	**VI**	**07 11 48 49.7–1.5**	**51.56N–.06**	**15.99E–.03**	**2–13**		**35 1-4** **¶603802223**

ISC Event type ke.

(549) Hungary.

ISC	**I**	**26 20 23 22.4–.99**	**47.68N–.03**	**17.96E–.02**	**11–9**		**57 0-4**
ISCJB	I	26 20 23 21.9–.46	47.66N–.03	17.89E–.03	10–4		**¶15972782**
CSEM	I	26 20 23 22.4–.18	47.69N	17.95E	5	2.6L	
IPEC	I	26 20 23 22.2–.10	47.63N	17.91E	10–1	1.6L	
VIE	I	26 20 23 22.7–.33	47.68N	17.92E	13–2	2.2L,1.4b	
PRU	I	26 20 23 23.9	47.63N	17.83E	22	2.2L,1.4b	

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.3km az=26.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.0km az=42.0.
IPEC Event type ke. Error ellipse: s-maj=1.3km s-min=0.7km az=11.0.
VIE Error ellipse: s-maj=3.1km s-min=1.9km az=35.0.

ISC	**I**	**29 17 41 37.4–.82**	**47.47N–.01**	**18.29E–.01**	**2–5**	**4.0b,3.2s**	**877 0-87**
BJI	I	29 17 41 32.8	47.44N	17.71E	6	4.7b,4.7b	**¶15979854**
SIGU	I	29 17 41 35.9–.10	47.44N–.01	18.31E–.01	8–0	4.1b,4.7b	
ISCJB	I	29 17 41 36.4–.23	47.476N–.01	18.27E–.01	7–1	4.1b,3.3s	
LDG	I	29 17 41 36.9–.10	47.52N	18.41E	5	4.7L,4.6	
MOS	I	29 17 41 36.3–1.1	47.42N	18.28E	11	4.4b,4.6	
IDC	I	29 17 41 37.1–.67	47.38N	18.39E	0	4.4L,4.0	
IPEC	I	29 17 41 38.0–.07	47.46N	18.33E	12–1	4.3L,4.0	
PRU	I	29 17 41 38.4	47.47N	18.33E	0	4.3,4.0	
BEO	I	29 17 41 38.7–.86	47.41N	18.32E	7–5	4.4,4.0	
NEIC	I	29 17 41 38.4–.19	47.52N	18.33E	10	4.3W,4.3b	
PDG	I	29 17 41 38.0–.54	47.51N	18.34E	18–1	4.3L,4.3b	
CSEM	I	29 17 41 38.3–.05	47.50N	18.33E	10	4.9L,4.3W	
BGR	I	29 17 41 39.8–.82	47.49N	18.34E	10	4.6L,4.3W	
BNS	I	29 17 41 41.6–.80	47.29N	17.90E	10	4.7L,4.3W	

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.5km s-min=1.3km az=24.5.
LDG Event type ke. Error ellipse: s-maj=3.2km s-min=2.1km az=12.0.
MOS Error ellipse: s-maj=4.0km s-min=3.4km az=111.3.
IDC Error ellipse: s-maj=12.1km s-min=6.9km az=24.0.
IPEC Event type ke. Error ellipse: s-maj=0.8km s-min=0.6km az=12.0.
PRU Felt In Southern Slovakia.
BEO Event type ke.
NEIC Event type fe. Error ellipse: s-maj=3.6km s-min=2.6km az=181.0. Felt [V] at Kornye and [IV] at Csakvar, Komarom, Piliscsaba, Tatabanya, Torokbalint and Varpalota; [III] at Biatorbagy, Budakeszi, Budaors, Budapest, Nagykovacsi, Szekesfehervar, Tarjan, Tata, Vertesszolos and Zsambek. Felt [IV] at Nitra and Sturovo and [III] at Komarno, Levice and Nove Zamky, Slovakia. Also felt at Hainburg, Austria. Moment Tensor Solution. s17 Moment tensor: Scale 10^{15}Nm; M_{rr}0.00 $M_{\theta\theta}$-0.51 $M_{\phi\phi}$0.51 $M_{r\theta}$0.05 $M_{\theta\phi}$2.90 $M_{\phi r}$-0.52 Best double couple: NP1: ϕ_s265.00000°,δ80.00000°,λ0.00000°. NP2:ϕ_s355.00000°,δ90.00000°,λ-170.00000°. Principal axes: T 2.9900,Plg7.0000°,Azm130.0000°; N 0.0000,Plg80.0000°,Azm355.0000° ; P -2.9900,Plg7.0000°,Azm220.0000° $M_0$3.00000×10^{15}

PDG Event type ke. Error ellipse: s-maj=0.5km s-min=0.6km az=0.0.
CSEM Event type ke. Error ellipse: s-maj=1.5km s-min=1.3km az=37.0.
BGR Event type ke. Error ellipse: s-maj=11.1km s-min=4.4km az=114.0.
BNS Event type ke.
ISC I 30 20 58 45.5–.80 47.45N–.02 18.29E–.02 9–5 163 0-5
VIE I 30 20 58 43.7–.68 47.53N 18.56E 6 2.6L,2.3b **¶15995113**
ISCJB I 30 20 58 45.2–.30 47.47N–.02 18.32E–.02 11–2 2.6L,2.3b
IPEC I 30 20 58 45.5–.07 47.46N 18.32E 15–1 2.2L,2.3b
CSEM I 30 20 58 45.7–.09 47.46N 18.33E 8 2.7L,2.3b
PRU I 30 20 58 46.2 47.45N 18.31E 10 2.7L,2.3b
ISC Event type ke.
VIE Error ellipse: s-maj=8.3km s-min=5.4km az=57.0.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.1km az=140.0.
IPEC Event type ke. Error ellipse: s-maj=0.9km s-min=0.7km az=8.0.
CSEM Event type ke. Error ellipse: s-maj=2.7km s-min=1.8km az=48.0.
CSEM II 20 08 53 57.8 47.84N 19.15E 10 1.3L
¶602001920

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM III 10 01 06 56.7 47.46N 18.37E 10 0.7L
¶602002946

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM III 11 15 34 52.9 47.50N 18.36E 7 0.9L
¶602002965

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM III 12 02 42 01.4 47.44N 18.37E 12 1.0L
¶602003012

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM III 12 05 47 01.9 47.57N 19.40E 10 1.7L
¶602003010

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
CSEM III 13 22 56 49.0 47.67N 18.12E 6 1.0L
¶602003030

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC IV 23 04 36 22.0–.94 47.48N–.02 18.35E–.02 7–6 43 0-2
ISCJB IV 23 04 36 21.9–.49 47.49N–.03 18.34E–.04 10–3 **¶602213029**
CSEM IV 23 04 36 21.9 47.48N 18.35E 10 2.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=41.7.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

SEISMIC REGION 37.
Africa.

(552) Libya.

IDC III 28 03 24 57.2–315 27.41N 15.37E 0
¶17198896

IDC Error ellipse: s-maj=177.7km s-min=134.8km az=135.0.
IDC III 28 04 13 34.3–315 27.73N 15.40E 0
¶17198902

IDC Error ellipse: s-maj=176.4km s-min=132.5km az=136.0.
IDC VI 01 14 43 06.4–791 29.24N 13.41E 0
¶17204899

IDC Error ellipse: s-maj=326.8km s-min=118.1km az=139.0.
IDC VI 15 09 29 18.6–999 26.07N 17.40E 0
¶17206176

IDC Error ellipse: s-maj=442.5km s-min=125.5km az=130.0.
IDC VI 29 17 02 00.5–950 29.18N 14.32E 0
¶17207206

IDC Error ellipse: s-maj=404.9km s-min=134.6km az=127.0.
IDC VI 30 16 23 26.1–999 26.39N 17.64E 0
¶17207267

IDC Error ellipse: s-maj=532.4km s-min=171.6km az=137.0.

(553) Egypt.

IDC I 26 07 17 43.7–2.4 29.99N 34.80E 0 2.5,2.5
¶17191016

IDC Error ellipse: s-maj=35.7km s-min=7.5km az=86.0.
GII V 07 15 26 22.6–.27 29.03N 31.97E 50 3.5
¶602004213

GII Event type ke.

(554) Red Sea.

ISC I 20 14 23 57.8–1.7 19.3N–.30 39.0E–.20 18 3.8b,3.2s 7 9-78
IDC I 20 14 23 55.1–1.8 19.32N 39.03E 0 3.7,3.7b **¶17190625**
ISCJB I 20 14 23 56.2–1.4 19.4N–.30 39.0E–.20 18 3.8b,3.3s
ISC Event type ke.
ISCJB Event type ke.
SGS I 22 14 01 47.4 27.67N 34.31E 11
¶601989846

SGS II 03 16 44 14.9 26.04N 35.86E 22
¶602210568

ISC II 04 11 11 23.3–.45 18.58N–.06 39.71E–.08 10 4.4b,3.8s 40 5-97
ISCJB II 04 11 11 21.0–.34 18.48N–.05 39.77E–.05 10 4.3b,3.8s **¶16339707**
IDC II 04 11 11 21.4–.66 18.53N 39.75E 0 4.3,4.2
NEIC II 04 11 11 26.5–.87 18.52N 39.81E 36–9 4.3b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=6.9km az=25.3.
IDC Error ellipse: s-maj=18.9km s-min=13.5km az=122.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=5.2km az=97.0.
ISC II 20 01 27 04.6–.45 27.76N–.05 34.04E–.05 10 4.2b,3.2s 172 1-88
GII II 20 01 26 52.9–.00 26.88N 34.11E 16–0 4.4b,4.3 **¶16056994**
ISCJB II 20 01 27 02.8–.36 27.76N–.03 33.97E–.03 10 4.1b,3.3s
IDC II 20 01 27 02.9–.76 27.74N 34.01E 0 4.0,3.9
BJI II 20 01 27 03.0 27.90N 34.00E 5 4.9b,4.4b
CSEM II 20 01 27 04.7–.18 27.77N 34.03E 10 4.5b,4.4b
NEIC II 20 01 27 04.7–.31 27.82N 34.02E 10 4.5b,4.4b
SGS II 20 01 27 06.5 27.83N 34.14E 10 4.5b,4.4b
ISC Event type ke.
GII Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=4.3km az=166.3.
IDC Error ellipse: s-maj=15.7km s-min=11.4km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=5.1km az=98.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.4km az=6.0.
GII II 20 02 49 25.5–.00 27.03N 34.09E 15 3.3
SGS II 20 02 50 27.2 25.44N 37.21E 13 3.3 **¶602001921**
GII Event type ke.
ISC II 20 04 52 37.1–.55 27.76N–.05 34.16E–.05 10 4.1b,3.5s 91 1-91
GII II 20 04 52 26.9–.00 26.92N 34.19E 19 4.0b,3.8 **¶16327678**
ISCJB II 20 04 52 35.7–.42 27.77N–.04 34.09E–.03 10 4.0b,3.4s
IDC II 20 04 52 36.4–1.2 28.00N 34.08E 0 4.1,3.9
NEIC II 20 04 52 37.9–.48 28.03N 34.13E 10 4.2b,3.9
CSEM II 20 04 52 37.6–.35 27.88N 34.07E 10 4.2b,3.9
SGS II 20 04 52 38.9 27.87N 34.09E 13 4.2b,3.9
ISC Event type ke.
GII Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=173.1.
IDC Error ellipse: s-maj=26.0km s-min=16.1km az=160.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.5km az=143.0.
CSEM Event type ke. Error ellipse: s-maj=12.6km s-min=10.0km az=122.0.
ISC IV 16 23 54 36.8–.87 19.2N–.10 38.9E–.10 13 3.8b,3.5s 15 11-96
ISCJB IV 16 23 54 34.9–.67 19.18N–.09 38.86E–.10 13 3.8b,3.4s **¶17201271**
IDC IV 16 23 54 35.0–1.0 19.21N 38.86E 0 3.8,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.7km s-min=11.8km az=41.8.
IDC Error ellipse: s-maj=24.7km s-min=16.8km az=145.0.
IDC IV 28 13 32 37.9–3.0 18.67N 39.69E 0 3.6,3.6
¶17202304

IDC Error ellipse: s-maj=75.9km s-min=32.8km az=148.0.
ISC V 02 05 42 59.7–2.6 15.10N–.09 42.0E–.10 10 12 2-4
ARO V 02 05 43 09.3 15N–46 42E–100 15–99 3.3L **¶601124398**
ISC Event type ke.
ISC V 03 22 18 35.7–1.4 15.26N–.05 41.99E–.09 10 11 1-4
SGS V 03 22 18 38.8 15.25N 41.57E 17 **¶601124410**
ISCJB V 03 22 18 40.9–.84 15.35N–.05 42.13E–.08 10
ARO V 03 22 18 44.5 15N–31 42E–100 15–99 3.1L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 07 20 57 50.9–1.5 17.70N–.08 40.4E–.10 10 3.6b 20 2-73
SGS VI 07 20 57 47.8 17.84N 39.93E 28 3.6b **¶17205513**
IDC VI 07 20 57 49.3–16 17.52N 40.25E 0 3.5,3.5b
ISCJB VI 07 20 57 50.8–1.2 17.77N–.06 40.47E–.08 10 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 08 02 02 00.3–.87 17.91N–.08 40.65E–.08 10 4.1b,3.7s 14 2-61
SGS VI 08 02 01 59.2 17.60N 40.25E 25 4.1b,3.7s **¶16682669**
IDC VI 08 02 01 59.1–2.3 17.84N 40.33E 0 4.1,4.0
NEIC VI 08 02 02 00.6–.80 17.82N 40.33E 10 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=66.9km s-min=30.0km az=68.0.
NEIC Event type se. Error ellipse: s-maj=23.8km s-min=13.9km az=70.0.
ISC VI 08 02 29 43.4–.70 17.79N–.09 40.27E–.09 10 4.2b,3.6s 68 5-78
MOS VI 08 02 29 39.7–1.3 17.52N 40.34E 10 4.4b,3.6s **¶16577422**
IDC VI 08 02 29 40.2–1.5 17.59N 40.30E 0 4.1,4.0
ISCJB VI 08 02 29 41.4–.53 17.76N–.07 40.26E–.06 10 4.1b,3.6s
NEIC VI 08 02 29 43.2–.61 17.74N 40.25E 10 4.2b,3.6s
ISC Event type se.
MOS Error ellipse: s-maj=15.4km s-min=8.2km az=78.9.
IDC Error ellipse: s-maj=31.7km s-min=19.5km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=7.6km az=34.2.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.8km az=218.0.
ISC VI 08 04 38 55.6–1.3 17.0N–.20 40.5E–.10 10 3.7b 8 2-60
SGS VI 08 04 38 56.7 16.93N 40.06E 29 3.7b **¶17205527**
IDC VI 08 04 38 56.5–3.1 17.43N 40.34E 0 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=70.5km s-min=31.4km az=145.0.
ISC VI 08 11 19 11.8–.77 17.57N–.08 40.41E–.08 10 4.0b,3.4s 24 2-73
ISCJB VI 08 11 19 10.0–.64 17.52N–.07 40.37E–.06 10 3.9b,3.5s **¶16856657**
IDC VI 08 11 19 10.0–1.2 17.49N 40.23E 0 4.0,3.9
NEIC VI 08 11 19 11.5–.50 17.50N 40.27E 10 4.1b,3.9
SGS VI 08 11 19 11.4 17.55N 40.22E 22 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.8km s-min=6.7km az=35.8.
IDC Error ellipse: s-maj=26.0km s-min=22.7km az=163.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=7.6km az=65.0.
IDC VI 08 11 36 52.7–2.8 17.26N 40.50E 0 3.6,3.6b
¶17205553

IDC Error ellipse: s-maj=72.8km s-min=29.7km az=153.0.
IDC VI 09 20 56 41.2–2.9 17.60N 40.32E 0 3.4,3.4
¶17205660

IDC Error ellipse: s-maj=72.2km s-min=30.6km az=151.0.
ISC VI 22 23 43 15.8–.91 26.8N–.10 34.99E–.08 12 4.0b 77 3-89
ISCJB VI 22 23 43 13.8–.62 26.71N–.07 35.02E–.07 12 4.0b **¶16731271**
CSEM VI 22 23 43 14.1–.36 26.72N 35.04E 2 4.3b
IDC VI 22 23 43 14.1–1.2 26.83N 34.94E 0 3.9,3.8b
NEIC VI 22 23 43 15.5–.62 26.80N 34.99E 10 4.3b,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=8.4km az=168.3.
CSEM Event type ke. Error ellipse: s-maj=12.0km s-min=9.7km az=163.0.
IDC Error ellipse: s-maj=21.9km s-min=18.2km az=127.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.5km az=154.0.
SGS VI 30 10 50 38.4 27.74N 34.36E 16
GII VI 30 10 50 25.3–.00 26.87N 33.93E 5 4.1b,3.6 **¶602004673**
GII Event type ke.

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DHMR I 01 12 31 00.9–1.4 12.11N 43.95E 12–15 3.5L
¶601874922

DHMR Error ellipse: s-maj=12.5km s-min=7.3km az=-1.0.
DHMR I 01 22 52 14.0–2.2 12.01N 44.00E 15–167 3.6L
¶601874925

DHMR Error ellipse: s-maj=83.5km s-min=39.7km az=-1.0.
ISC I 02 20 09 02.5–.93 29.93N–.02 35.09E–.05 14–5 58 0-2
ISCJB I 02 20 09 01.9–.64 29.93N–.02 35.12E–.05 13–3 **¶601685460**
CSEM I 02 20 09 01.8–.21 29.91N 35.14E 10 2.0
GII I 02 20 09 02.3–.00 29.92N 35.08E 9 2.0
HLW I 02 20 09 02.5 29.96N 35.14E 10–3 2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=3.4km az=10.6.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.3km az=98.0.
GII Event type ke.
DHMR I 04 15 41 00.7–1.9 12.22N 43.92E 10–28 3.5L
¶601875247

DHMR Error ellipse: s-maj=22.7km s-min=9.6km az=-1.0.
DHMR I 04 22 17 15.0–.99 12.02N 44.12E 14–9 3.5L
¶601875251

DHMR Error ellipse: s-maj=9.0km s-min=5.7km az=-1.0.
DHMR I 04 23 20 43.9–1.3 12.05N 44.11E 10–16 4.1L
¶601875258

DHMR Error ellipse: s-maj=12.9km s-min=6.4km az=-1.0.
DHMR I 04 23 28 51.7–1.5 12.02N 44.13E 10–17 3.8L
¶601875259

DHMR Error ellipse: s-maj=14.0km s-min=7.3km az=-1.0.
DHMR I 04 23 40 54.6–1.5 12.11N 44.13E 12–18 3.6L
¶601875261

DHMR Error ellipse: s-maj=15.9km s-min=6.9km az=-1.0.
DHMR I 04 23 55 51.3–2.0 12.10N 43.91E 13–25 3.5L
¶601875262

DHMR Error ellipse: s-maj=20.4km s-min=12.0km az=-1.0.
DHMR I 04 23 58 55.3–.69 12.13N 44.13E 14–6 3.8L
¶601875263

DHMR Error ellipse: s-maj=6.1km s-min=3.8km az=-1.0.
DHMR I 05 00 00 15.0–.72 12.03N 44.18E 14–6 4.0L
¶601875264

DHMR Error ellipse: s-maj=6.2km s-min=4.3km az=-1.0.
DHMR I 05 00 02 25.0–1.4 12.11N 44.02E 7–17 4.0L
¶601875265

DHMR Error ellipse: s-maj=13.6km s-min=6.2km az=-1.0.
DHMR I 05 00 03 16.9–.82 12.13N 44.16E 14–10 3.7L
¶601875268

DHMR Error ellipse: s-maj=9.9km s-min=4.9km az=-1.0.
DHMR I 05 00 12 54.2–.88 12.09N 44.15E 11–19 3.6L
¶601875272

DHMR Error ellipse: s-maj=15.5km s-min=4.5km az=-1.0.
DHMR I 05 00 14 14.3–1.6 12.14N 44.11E 7–34 3.6L
¶601875273

DHMR Error ellipse: s-maj=24.4km s-min=8.1km az=-1.0.
ISC I 05 00 19 21.0–.78 12.12N–.06 44.01E–.06 4 3.9b,3.1s 20 1-63
DHMR I 05 00 19 17.8–1.3 11.92N 44.09E 14–11 4.0L,3.1s **¶17189466**
IDC I 05 00 19 22.0–4.8 12.17N 44.14E 0 3.7,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=11.2km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=102.7km s-min=39.6km az=24.0.
DHMR I 05 00 30 27.3–2.1 12.11N 44.15E 12–24 4.0L
¶601875274

DHMR Error ellipse: s-maj=19.4km s-min=11.7km az=-1.0.
DHMR I 05 00 39 48.2–1.0 12.04N 44.17E 15–10 3.5L
¶601875275

DHMR Error ellipse: s-maj=9.2km s-min=6.3km az=-1.0.
DHMR I 05 00 50 41.7–1.5 12.03N 44.06E 7–30 3.6L
¶601875277

DHMR Error ellipse: s-maj=22.5km s-min=8.1km az=-1.0.
DHMR I 05 00 57 11.4–1.1 12.01N 44.13E 14–12 3.6L

¶601875278
DHMR Error ellipse: s-maj=10.0km s-min=6.6km az=-1.0.
DHMR I 05 01 01 22.1–1.4 12.02N 44.15E 13–12 3.8L

¶601875279
DHMR Error ellipse: s-maj=10.7km s-min=8.0km az=-1.0.
DHMR I 05 01 11 31.8–1.2 12.02N 44.06E 14–13 4.1L

¶601875280
DHMR Error ellipse: s-maj=12.8km s-min=9.2km az=-1.0.
ISC I 05 01 32 30.5–.86 12.04N–.09 44.20E–.08 4 3.9b 20 1-94
DHMR I 05 01 32 25.3–1.1 12.00N 43.95E 14–16 4.4L ¶17189469
ISCJB I 05 01 32 28.7–.67 12.02N–.06 44.11E–.07 4 3.7b
IDC I 05 01 32 29.6–1.0 11.86N 44.18E 0 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=11.7km s-min=5.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=7.4km az=34.4.
IDC Error ellipse: s-maj=27.2km s-min=19.9km az=176.0.
DHMR I 05 01 39 37.4–.93 12.06N 44.15E 13–14 3.7L

¶601875281
DHMR Error ellipse: s-maj=15.7km s-min=10.6km az=-1.0.
DHMR I 05 01 46 07.5–2.0 12.09N 43.99E 13–23 3.8L

¶601875282
DHMR Error ellipse: s-maj=21.8km s-min=14.1km az=-1.0.
DHMR I 05 01 48 00.5–1.6 12.10N 43.92E 12–25 4.1L

¶601875283
DHMR Error ellipse: s-maj=21.1km s-min=8.7km az=-1.0.
DHMR I 05 02 06 37.9–1.7 12.02N 44.07E 12–34 4.1L

¶601875287
DHMR Error ellipse: s-maj=25.9km s-min=15.2km az=-1.0.
DHMR I 05 02 15 14.2–1.1 12.01N 44.15E 14–10 3.7L

¶601875289
DHMR Error ellipse: s-maj=9.0km s-min=5.9km az=-1.0.
DHMR I 05 02 37 35.2–1.2 12.02N 44.12E 11–21 3.8L

¶601875292
DHMR Error ellipse: s-maj=16.5km s-min=6.5km az=-1.0.
DHMR I 05 02 45 47.3–1.5 12.05N 44.14E 9–18 3.5L

¶601875293
DHMR Error ellipse: s-maj=15.9km s-min=7.2km az=-1.0.
DHMR I 05 03 43 51.2–1.3 12.01N 44.13E 12–11 4.1L

¶601875296
DHMR Error ellipse: s-maj=9.8km s-min=6.7km az=-1.0.
DHMR I 05 03 47 40.3–1.7 12.02N 44.12E 15–13 3.6L

¶601875297
DHMR Error ellipse: s-maj=12.4km s-min=8.5km az=-1.0.
DHMR I 05 04 20 37.3–1.4 12.01N 44.21E 17–10 4.1L

¶601875300
DHMR Error ellipse: s-maj=9.7km s-min=7.2km az=-1.0.
DHMR I 05 04 44 30.4–.94 12.16N 44.11E 13–283 3.5L

¶601875302
DHMR Error ellipse: s-maj=151.1km s-min=45.6km az=-1.0.
ISC I 05 04 55 00.2–1.3 12.1N–.10 44.15E–.09 4 3.5b,3.4s 12 1-94
DHMR I 05 04 54 56.5–2.1 12.04N 44.00E 13–21 4.1L,3.4s ¶17189477
ISCJB I 05 04 54 58.1–1.1 12.05N–.07 44.10E–.08 4 3.6b,3.3s
IDC I 05 04 55 00.1–2.2 12.18N 44.10E 0 3.8,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=21.3km s-min=12.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=10.3km az=29.6.
IDC Error ellipse: s-maj=78.2km s-min=27.2km az=165.0.
DHMR I 05 06 08 30.8–1.2 12.12N 44.14E 7–15 3.9L

¶601875303
DHMR Error ellipse: s-maj=11.8km s-min=5.6km az=-1.0.
ISC I 05 07 24 41.1–1.2 12.18N–.09 44.23E–.08 4 3.7b 18 1-53
DHMR I 05 07 24 37.9–1.3 12.09N 44.04E 16–12 4.1L ¶17189489
ISCJB I 05 07 24 38.1–.96 12.02N–.06 44.12E–.07 4 3.7b
IDC I 05 07 24 39.8–2.1 11.98N 44.29E 0 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=10.4km s-min=7.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=9.1km az=15.3.
IDC Error ellipse: s-maj=53.5km s-min=27.2km az=169.0.
ISC I 05 08 38 01.4–.81 12.01N–.07 44.08E–.06 4 3.9b 20 1-95
DHMR I 05 08 37 57.2–1.2 11.86N 44.08E 15–16 4.4L ¶17189494
ISCJB I 05 08 37 59.4–.67 11.91N–.06 44.12E–.05 4 3.8b
IDC I 05 08 38 00.8–1.1 11.93N 44.01E 0 4.0,3.9
ISC Event type ke.
DHMR Error ellipse: s-maj=12.8km s-min=6.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.8km az=137.5.
IDC Error ellipse: s-maj=30.3km s-min=14.9km az=159.0.
DHMR I 05 08 55 28.6–1.1 12.10N 44.05E 14–18 4.1L

¶601875305
DHMR Error ellipse: s-maj=12.2km s-min=11.6km az=-1.0.
DHMR I 05 09 31 11.2–1.5 12.12N 44.03E 12–22 4.0L

¶601875306
DHMR Error ellipse: s-maj=16.1km s-min=8.6km az=-1.0.
DHMR I 07 22 41 26.4–1.4 12.12N 43.97E 14–13 3.9L

¶601875316
DHMR Error ellipse: s-maj=11.5km s-min=6.8km az=-1.0.
ISC I 07 22 57 31.6–1.4 12.10N–.08 43.99E–.06 4 13 1-6
DHMR I 07 22 57 29.3–2.2 12.03N 43.89E 15–18 4.4L ¶601875317
ISC Event type ke.
DHMR Error ellipse: s-maj=13.2km s-min=9.5km az=-1.0.
DHMR I 07 23 23 24.9–1.1 12.12N 44.04E 11–13 3.5L

¶601875318
DHMR Error ellipse: s-maj=10.8km s-min=4.6km az=-1.0.
DHMR I 07 23 51 07.7–1.1 12.03N 44.00E 8–343 3.6L

¶601875320
DHMR Error ellipse: s-maj=206.1km s-min=69.2km az=-1.0.
DHMR I 10 01 21 36.6–1.2 12.19N 43.88E 11–29 3.6L

¶601875326
DHMR Error ellipse: s-maj=20.1km s-min=5.9km az=-1.0.
DHMR I 10 01 40 15.8–.54 12.14N 43.91E 15–40 3.7L

¶601875329
DHMR Error ellipse: s-maj=24.0km s-min=15.5km az=-1.0.
DHMR I 10 01 43 36.8–1.5 12.05N 43.99E 3–102 3.5L

¶601875333
DHMR Error ellipse: s-maj=69.8km s-min=48.3km az=-1.0.
DHMR I 10 01 45 00.1–1.9 12.00N 43.97E 14–323 3.6L

¶601875334
DHMR Error ellipse: s-maj=159.8km s-min=85.3km az=-1.0.
DHMR I 10 01 56 03.0–1.5 12.10N 43.88E 10–23 3.9L

¶601875339
DHMR Error ellipse: s-maj=19.5km s-min=7.9km az=-1.0.
DHMR I 10 02 06 44.1–.53 12.02N 43.83E 17–7 4.1L

¶601875340
DHMR Error ellipse: s-maj=5.9km s-min=3.1km az=-1.0.
DHMR I 10 02 10 03.9–1.5 12.05N 43.97E 14–174 3.5L

¶601875341
DHMR Error ellipse: s-maj=83.4km s-min=51.7km az=-1.0.
DHMR I 10 02 15 43.9–1.4 12.09N 43.92E 15–18 4.2L

¶601875342
DHMR Error ellipse: s-maj=13.5km s-min=6.5km az=-1.0.
DHMR I 10 02 21 45.7–1.4 12.00N 43.95E 13–43 4.2L

¶601875343
DHMR Error ellipse: s-maj=36.1km s-min=8.5km az=-1.0.
ISC I 10 02 29 57.0–.47 12.01N–.04 43.98E–.04 9–2 4.7b,4.5s 444 1-169
DHMR I 10 02 29 52.5–1.3 12.11N 43.89E 8–9 5.1L,4.5s ¶15914930
MOS I 10 02 29 54.9–.97 11.93N 44.07E 7 5.0b,4.5s
BJI I 10 02 29 54.1 12.10N 43.68E 11 5.2b,5.0s
ISCJB I 10 02 29 55.9–.22 12.02N–.03 44.00E–.02 10 4.7b,4.6s
IDC I 10 02 29 55.8–.54 12.01N 43.96E 0 4.6,4.6s
GCMT I 10 02 29 57.6–.20 12.10N 44.13E 12 5.2W,4.6s
NEIC I 10 02 29 57.6–.24 12.04N 43.99E 10 4.9b,4.6s
CSEM I 10 02 29 57.8–.19 12.04N 44.06E 10 5.1s,4.9b
ARO I 10 02 29 57.7 12N–9.0 44E–6.0 10–18 4.6L,4.9b
DSN I 10 02 29 58.8–22 12.12N 44.12E 15 5.1s,4.8b
OMAN I 10 02 30 00.3–35 12.14N 44.01E 12–1 5.1s,4.8b
ISC Event type fe.
DHMR Error ellipse: s-maj=9.9km s-min=5.6km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=4.1km az=98.1.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=2.8km az=151.6.
IDC Error ellipse: s-maj=13.1km s-min=7.9km az=148.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=35s. Moment Tensor Solution. s29,c36; s87,c160; Duration: 1s2 Moment tensor: Scale 10^{16}Nm; M_{rr}-6.42±.16 $M_{\theta\theta}$5.21±.12; $M_{\phi\phi}$1.21±.16; $M_{r\theta}$-2.00±.41; $M_{\theta\phi}$-1.95±.12; $M_{\phi r}$-1.18±.53; Best double couple: NP1:ϕ_s98.00000°,δ53.00000°,λ-107.00000°. NP2:ϕ_s305.00000°,δ40.00000°,λ-69.00000°. Principal axes: T 6.1690,Plg7.0000°,Azm200.0000°; N 0.8610,Plg14.0000°,Azm108.0000°; P -7.0300,Plg75.0000°,Azm316.0000° $M_0$6.59900×10^{16}
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.9km az=103.0. Felt at 'Adan.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.5km az=178.0.
DSN Error ellipse: s-maj=10.9km s-min=3.1km az=347.0.
OMAN Error ellipse: s-maj=4.3km s-min=1.5km az=315.0.
ISC I 10 02 35 28.6–1.1 12.07N–.09 43.93E–.08 4 13 1-4
DHMR I 10 02 35 24.8–1.2 12.02N 43.73E 11–51 4.0L ¶601123747
ISCJB I 10 02 35 29.3–.73 12.13N–.07 43.91E–.07 4 4.0L
ARO I 10 02 35 32.0 12N–3.0 44E–4.0 15–4 3.5L
ISC Event type ke.
ISCJB Event type ke.
ARO I 10 05 06 08.3 12N–8.0 44E–5.0 11–15 3.7L

¶601123748
DHMR I 10 10 34 44.1–1.8 12.04N 43.93E 7–23 3.5L

¶601875344
DHMR Error ellipse: s-maj=19.6km s-min=8.5km az=-1.0.
DHMR I 10 10 48 30.2–1.8 12.09N 43.89E 11–23 3.9L

¶601875345
DHMR Error ellipse: s-maj=18.4km s-min=8.2km az=-1.0.
DHMR I 15 17 25 14.1–1.4 12.02N 43.95E 11–18 4.1L

¶601875543
DHMR Error ellipse: s-maj=15.9km s-min=6.3km az=-1.0.
DHMR I 16 00 33 17.7–2.2 12.03N 43.95E 14–160 3.6L

¶601875547
DHMR Error ellipse: s-maj=80.0km s-min=40.6km az=-1.0.
ISC I 16 01 40 28.9–.99 12.06N–.08 44.05E–.07 10 3.7b 18 1-63
DHMR I 16 01 40 27.5–2.0 12.10N 43.96E 16–24 4.4L ¶17190284
ISCJB I 16 01 40 28.4–1.0 12.03N–.07 44.02E–.07 10 3.5b,3.2s
IDC I 16 01 40 28.3–3.0 11.79N 44.14E 0 3.6,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=15.9km s-min=8.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=8.6km az=139.2.
IDC Error ellipse: s-maj=81.8km s-min=31.7km az=164.0.
DHMR I 16 01 46 45.4–.85 12.09N 43.90E 10–10 3.6L

¶601875552
DHMR Error ellipse: s-maj=8.3km s-min=3.5km az=-1.0.
DHMR I 16 02 02 48.6–1.9 12.07N 43.96E 15–127 3.6L

¶601875555
DHMR Error ellipse: s-maj=63.4km s-min=32.7km az=-1.0.
DHMR I 16 02 29 09.0–2.2 12.06N 43.93E 14–148 3.7L

¶601875557
DHMR Error ellipse: s-maj=72.6km s-min=39.3km az=-1.0.
ISC I 16 02 38 58.6–1.6 12.2N–.10 44.18E–.08 4 3.9b 14 1-62
DHMR I 16 02 38 53.4–2.4 12.03N 43.94E 14–31 4.1L ¶17190287
IDC I 16 02 38 58.1–16 12.06N 44.34E 0 3.7,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=22.5km s-min=10.2km az=-1.0.
IDC Error ellipse: s-maj=330.8km s-min=57.4km az=22.0.
ISC I 16 02 46 29.1–2.0 12.24N–.07 44.21E–.07 4–12 3.8b,3.5s 19 1-63
DHMR I 16 02 46 23.8–2.0 12.11N 43.95E 9–24 4.3L,3.5s ¶17190289
IDC I 16 02 46 25.7–2.0 11.79N 44.05E 0 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=19.6km s-min=8.2km az=-1.0.
IDC Error ellipse: s-maj=52.6km s-min=27.3km az=173.0.
ISC I 16 03 11 05.6–1.2 12.2N–.10 43.8E–.10 4 3.7b 10 1-98
DHMR I 16 03 11 02.0–2.2 12.05N 43.95E 14–134 4.0L ¶17190292
ISCJB I 16 03 11 03.2–.86 12.05N–.08 43.98E–.07 4 4.1s,3.5b
IDC I 16 03 11 04.6–2.0 12.01N 43.86E 0 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=76.8km s-min=39.3km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.5km s-min=5.5km az=142.9.
IDC Error ellipse: s-maj=55.1km s-min=17.9km az=145.0.
ISC I 16 03 33 06.0–1.4 12.21N–.08 44.19E–.08 10 3.7b,3.3s 17 1-62
DHMR I 16 03 32 59.6–2.5 12.01N 43.95E 14–22 4.2L,3.3s ¶17190294
IDC I 16 03 33 01.6–7.5 11.82N 43.79E 0 3.7,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=19.5km s-min=12.6km az=-1.0.
IDC Error ellipse: s-maj=158.3km s-min=42.7km az=34.0.
DHMR I 16 03 43 26.3–1.6 12.12N 43.98E 12–14 4.2L

¶601875560
DHMR Error ellipse: s-maj=12.8km s-min=7.5km az=-1.0.
DHMR I 16 04 25 43.1–1.4 12.11N 44.23E 17–35 3.9L

¶601875561
DHMR Error ellipse: s-maj=53.3km s-min=51.5km az=-1.0.
ISC I 16 04 31 17.3–1.6 12.0N–.10 44.3E–.10 4 3.7b 12 1-63
IDC I 16 04 31 16.6–11 12.00N 44.37E 0 3.7,3.6 ¶17190297
DHMR I 16 04 31 19.1–1.4 12.14N 44.17E 16–13 3.9L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=259.2km s-min=50.9km az=16.0.
DHMR Error ellipse: s-maj=13.3km s-min=7.8km az=-1.0.
DHMR I 16 05 02 15.7–1.5 12.05N 44.08E 5–18 4.0L

¶601875563
DHMR Error ellipse: s-maj=14.5km s-min=6.7km az=-1.0.
DHMR I 16 05 15 38.9–.87 12.13N 44.14E 14–7 3.8L

¶601875564
DHMR Error ellipse: s-maj=6.6km s-min=4.2km az=-1.0.
DHMR I 16 05 35 25.9–1.3 12.07N 44.09E 14–11 3.8L

¶601875565
DHMR Error ellipse: s-maj=10.2km s-min=6.6km az=-1.0.
DHMR I 16 13 10 09.6–2.0 12.00N 44.08E 16–18 3.7L

¶601875569
DHMR Error ellipse: s-maj=18.0km s-min=11.6km az=-1.0.
DHMR I 17 07 44 16.8–1.1 12.06N 43.90E 2–37 3.5L

¶601875573
DHMR Error ellipse: s-maj=60.5km s-min=41.9km az=-1.0.
DHMR I 18 16 24 54.7–1.4 12.10N 43.98E 12–17 3.7L

¶601875578
DHMR Error ellipse: s-maj=13.6km s-min=5.8km az=-1.0.
DHMR I 18 16 29 21.8–.74 12.12N 43.98E 9–16 3.6L

¶601875579
DHMR Error ellipse: s-maj=12.1km s-min=3.8km az=-1.0.
DHMR I 18 16 32 54.6–2.6 12.03N 43.85E 12–164 3.9L

¶601875580
DHMR Error ellipse: s-maj=91.4km s-min=51.6km az=-1.0.
DHMR I 18 16 41 41.6–1.0 12.07N 44.10E 9–12 3.8L

¶601875581
DHMR Error ellipse: s-maj=9.7km s-min=5.0km az=-1.0.
DHMR I 18 16 53 24.2–3.3 12.15N 44.01E 15–38 3.7L

¶601875584
DHMR Error ellipse: s-maj=35.0km s-min=19.2km az=-1.0.
ISC I 18 16 58 25.1–.82 12.15N–.08 43.97E–.07 10 3.8b 17 1-63
ISCJB I 18 16 58 23.6–.72 12.02N–.08 43.99E–.07 10 3.6b,3.6s ¶17190491
DHMR I 18 16 58 23.0–1.8 12.06N 43.98E 15–124 4.2L,3.6s
IDC I 18 16 58 24.1–1.2 12.11N 43.86E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=5.4km az=142.5.
DHMR Error ellipse: s-maj=62.3km s-min=31.2km az=-1.0.

IDC Error ellipse: s-maj=42.5km s-min=15.1km az=148.0.
ISC I 18 17 02 28.0–.73 12.03N–.06 44.03E–.06 10 3.9b,3.3s 27 1-88
DHMR I 18 17 02 25.6–1.9 12.04N 44.00E 15–16 4.3L,3.3s ¶16151772
IDC I 18 17 02 26.7–1.4 11.78N 44.01E 0 3.9,3.8
ISCJB I 18 17 02 27.3–.54 12.04N–.04 44.01E–.05 10 3.9b,3.4s
NEIC I 18 17 02 29.2–.68 11.99N 43.99E 10 4.4b,3.4s
ISC Event type se.
DHMR Error ellipse: s-maj=16.4km s-min=9.9km az=-1.0.
IDC Error ellipse: s-maj=40.0km s-min=14.7km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.6km az=40.2.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=9.9km az=134.0.
DHMR I 18 17 20 31.8–2.2 12.05N 44.00E 15–201 3.5L
¶601875586

DHMR Error ellipse: s-maj=103.1km s-min=50.3km az=-1.0.
DHMR I 18 18 34 08.1–1.2 12.01N 44.18E 13–11 3.9L
¶601875590

DHMR Error ellipse: s-maj=10.1km s-min=6.6km az=-1.0.
ISC I 18 18 40 45.3–.75 12.11N–.05 43.91E–.06 10 3.6b,3.5s 23 1-88
DHMR I 18 18 40 43.0–1.7 11.99N 43.99E 17–21 4.1L,3.5s ¶17190499
ISCJB I 18 18 40 44.0–.71 11.94N–.06 44.05E–.05 10 3.6b,3.5s
IDC I 18 18 40 44.6–1.2 11.97N 43.93E 0 3.8,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=14.1km s-min=7.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.3km az=137.6.
IDC Error ellipse: s-maj=38.3km s-min=15.2km az=155.0.
ISC I 18 19 30 39.8–1.3 12.20N–.08 44.18E–.08 4 9 1-6
DHMR I 18 19 30 41.7–.89 12.09N 44.40E 90–12 3.7L ¶601875593
ISCJB I 18 19 30 42.2–1.2 12.24N–.08 44.32E–.08 4 3.7L
ISC Event type ke.
ISCJB Event type ke.
DHMR I 18 19 40 39.0–1.9 12.09N 44.06E 9–36 3.6L
¶601875594

DHMR Error ellipse: s-maj=27.8km s-min=9.5km az=-1.0.
DHMR I 18 19 53 44.9–.60 12.13N 44.06E 11–11 3.6L
¶601875596

DHMR Error ellipse: s-maj=8.1km s-min=2.6km az=-1.0.
DHMR I 18 20 48 20.1–1.0 12.04N 43.96E 14–70 3.8L
¶601875598

DHMR Error ellipse: s-maj=34.6km s-min=18.0km az=-1.0.
ISC I 19 11 21 17.6–2.6 30.0N–.10 36.34E–.09 5 20 1-3
HLW I 19 11 21 17.5 29.87N 36.63E 14–16 2.8,2.6L ¶601783292
SGS I 19 11 21 18.4 30.10N 36.20E 0 2.8,2.6L
ISC Event type ke.
DHMR I 22 15 42 10.7–2.4 12.16N 43.94E 16–28 3.7L
¶601875613

DHMR Error ellipse: s-maj=18.5km s-min=9.9km az=-1.0.
DHMR I 22 15 48 03.2–1.3 12.12N 43.98E 10–16 3.8L
¶601875614

DHMR Error ellipse: s-maj=14.0km s-min=5.6km az=-1.0.
DHMR I 25 01 34 22.2–1.4 12.10N 43.92E 8–18 3.5L
¶601875630

DHMR Error ellipse: s-maj=14.9km s-min=6.4km az=-1.0.
DHMR I 25 01 35 10.1–.80 12.11N 43.96E 14–10 3.6L
¶601875633

DHMR Error ellipse: s-maj=12.2km s-min=5.8km az=-1.0.
ISC I 26 12 44 16.4–1.7 29.97N–.08 36.3E–.10 10 25 2-4
NSSC I 26 12 44 11.6–.47 29.71N 35.93E 0–107 2.3L ¶601686229
ISCJB I 26 12 44 15.6–1.3 29.88N–.07 36.5E–.10 10 2.3L
HLW I 26 12 44 15.1 29.92N 36.64E 15–13 3.0L,2.5
CSEM I 26 12 44 15.9–.74 29.93N 36.34E 2 2.3L,2.5
ISC Event type ke.
NSSC Error ellipse: s-maj=155.6km s-min=32.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=4.9km az=36.5.
CSEM Event type ke. Error ellipse: s-maj=29.5km s-min=6.9km az=121.0.
DHMR I 28 07 27 54.7–1.3 12.09N 44.01E 13–13 3.5L
¶601875638

DHMR Error ellipse: s-maj=12.7km s-min=7.2km az=-1.0.
DHMR I 28 20 36 16.8–2.7 12.10N 43.89E 11–53 3.5L
¶601875640

DHMR Error ellipse: s-maj=40.9km s-min=13.3km az=-1.0.
DHMR I 29 06 11 18.1–1.2 12.03N 44.18E 18–11 3.7L
¶601875642

DHMR Error ellipse: s-maj=11.4km s-min=9.1km az=-1.0.
DHMR I 29 06 34 52.5–1.9 12.05N 44.16E 18–191 3.8L
¶601875643

DHMR Error ellipse: s-maj=93.9km s-min=46.7km az=-1.0.
DHMR I 30 01 28 30.8–1.6 12.04N 44.01E 15–14 3.6L
¶601875647

DHMR Error ellipse: s-maj=12.7km s-min=9.0km az=-1.0.
ISC I 30 02 57 04.0–2.6 12.25N–.09 44.09E–.06 4–13 3.4b 23 1-62
DHMR I 30 02 56 59.8–1.6 11.98N 44.01E 14–20 4.2L ¶601875663
IDC I 30 02 57 02.7–3.3 11.97N 43.93E 0 3.5,3.4
ISC Event type ke.
DHMR Error ellipse: s-maj=13.7km s-min=7.0km az=-1.0.
IDC Error ellipse: s-maj=91.5km s-min=27.9km az=162.0.
DHMR I 30 03 07 47.9–2.3 12.09N 44.03E 5–32 3.7L
¶601875667

DHMR Error ellipse: s-maj=29.8km s-min=11.8km az=-1.0.
DHMR I 30 03 10 46.1–.91 12.11N 43.98E 7–11 3.7L
¶601875668

DHMR Error ellipse: s-maj=8.8km s-min=3.8km az=-1.0.
DHMR I 30 03 17 42.2–1.8 12.00N 44.01E 10–21 4.1L
¶601875669

DHMR Error ellipse: s-maj=17.4km s-min=8.1km az=-1.0.
ISC I 30 03 19 26.5–1.3 12.01N–.09 44.17E–.07 10 3.7b,3.2s 26 1-53
DHMR I 30 03 19 22.8–1.7 11.93N 44.07E 10–17 4.5L,3.2s ¶17191286
ISCJB I 30 03 19 23.9–.95 11.82N–.06 44.12E–.07 10 3.6b,3.2s
IDC I 30 03 19 25.2–3.2 11.91N 44.11E 0 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=15.2km s-min=8.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.7km az=37.3.
IDC Error ellipse: s-maj=70.6km s-min=28.0km az=163.0.
DHMR I 30 03 31 49.4–.89 12.04N 44.04E 6–11 3.6L
¶601875675

DHMR Error ellipse: s-maj=10.1km s-min=4.5km az=-1.0.
ISC I 30 03 36 24.4–2.2 12.2N–.10 43.93E–.09 4 3.6b 13 1-63
DHMR I 30 03 36 22.0–1.6 12.07N 43.89E 6–19 4.2L ¶17191288
IDC I 30 03 36 24.8–3.1 11.90N 44.12E 0 3.5,3.5b
ISC Event type ke.
DHMR Error ellipse: s-maj=15.3km s-min=6.5km az=-1.0.
IDC Error ellipse: s-maj=82.5km s-min=33.0km az=164.0.
ISC I 30 03 48 33.4–1.3 12.05N–.06 43.92E–.05 3–8 4.3b,3.8s 127 1-95
DHMR I 30 03 48 27.9–1.6 12.03N 43.87E 7–17 4.6L,3.8s ¶15981235
BJI I 30 03 48 29.3 12.21N 43.35E 5 5.0b,4.8s
IDC I 30 03 48 31.8–.90 11.87N 43.89E 0 4.2,4.1
NEIC I 30 03 48 34.1–.42 11.94N 43.87E 10 4.8b,4.1
CSEM I 30 03 48 34.4–.31 11.93N 43.88E 10 4.7b,4.1
ISC Event type ke.
DHMR Error ellipse: s-maj=15.1km s-min=6.9km az=-1.0.
IDC Error ellipse: s-maj=21.8km s-min=13.4km az=161.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=8.0km az=137.0.
CSEM Event type ke. Error ellipse: s-maj=12.3km s-min=9.8km az=1.0.
DHMR I 30 04 04 29.5–1.2 12.17N 43.90E 12–14 3.7L
¶17191289

DHMR Error ellipse: s-maj=11.6km s-min=4.6km az=-1.0.
ISC I 30 04 05 14.1–1.3 12.0N–.10 44.06E–.09 4 4.1b,3.1s 16 1-63
ISCJB I 30 04 05 12.0–.93 11.94N–.06 44.02E–.07 4 4.0b,3.2s ¶601875679
IDC I 30 04 05 13.3–2.7 11.94N 43.98E 0 4.1,4.0b
DHMR I 30 04 05 14.4–.42 12.14N 44.02E 13–3 4.5L,4.0b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=7.6km az=33.1.

IDC Error ellipse: s-maj=66.9km s-min=25.9km az=168.0.
DHMR Error ellipse: s-maj=4.6km s-min=2.6km az=-1.0.
DHMR I 30 04 07 49.0–.65 12.21N 43.98E 14–7 3.8L
¶601875681

DHMR Error ellipse: s-maj=8.5km s-min=3.3km az=-1.0.
DHMR I 30 04 55 52.6–.98 12.08N 44.05E 13–9 3.6L
¶601875686

DHMR Error ellipse: s-maj=8.2km s-min=4.9km az=-1.0.
DHMR I 30 05 26 11.5–1.4 15.28N 43.80E 17–9 4.0L
¶601875689

DHMR Error ellipse: s-maj=4.9km s-min=5.0km az=-1.0.
DHMR I 30 06 01 19.5–.81 12.05N 43.96E 13–7 3.6L
¶601875691

DHMR Error ellipse: s-maj=7.8km s-min=4.4km az=-1.0.
DHMR I 30 06 03 36.5–1.4 12.07N 43.99E 15–15 3.6L
¶601875692

DHMR Error ellipse: s-maj=13.0km s-min=8.0km az=-1.0.
DHMR I 30 06 08 46.9–.86 12.01N 43.96E 12–10 4.0L
¶601875693

DHMR Error ellipse: s-maj=8.3km s-min=3.8km az=-1.0.
DHMR I 30 06 22 21.4–1.0 12.04N 43.99E 15–9 3.8L
¶601875694

DHMR Error ellipse: s-maj=8.5km s-min=5.2km az=-1.0.
DHMR I 30 06 45 46.5–1.6 12.09N 43.90E 14–106 3.9L
¶601875697

DHMR Error ellipse: s-maj=51.5km s-min=29.3km az=-1.0.
DHMR I 30 06 51 10.5–1.2 12.03N 43.99E 15–103 3.7L
¶601875698

DHMR Error ellipse: s-maj=48.2km s-min=24.1km az=-1.0.
DHMR I 30 07 05 50.3–1.1 12.01N 43.89E 10–14 3.8L
¶601875699

DHMR Error ellipse: s-maj=12.3km s-min=5.0km az=-1.0.
ISC I 30 07 25 14.1–1.3 12.07N–.09 44.08E–.08 10 3.8b 18 1-81
DHMR I 30 07 25 10.6–1.8 12.04N 43.98E 9–21 4.1L ¶17191299
ISCJB I 30 07 25 11.6–.96 11.91N–.06 44.04E–.07 10 4.1s,3.7b
IDC I 30 07 25 11.4–2.8 11.69N 44.14E 0 3.8,3.7b
ISC Event type ke.
DHMR Error ellipse: s-maj=17.6km s-min=7.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=7.9km az=41.0.
IDC Error ellipse: s-maj=71.0km s-min=26.7km az=164.0.
DHMR I 30 10 35 19.5–1.3 12.08N 44.22E 5–12 3.5L
¶601875702

DHMR Error ellipse: s-maj=12.4km s-min=7.8km az=-1.0.
DHMR I 30 15 06 37.6–.54 12.22N 44.21E 6–16 3.5L
¶601875704

DHMR Error ellipse: s-maj=23.7km s-min=18.3km az=-1.0.
DHMR I 30 17 51 21.4–.42 12.07N 43.91E 4–7 3.5L
¶601875705

DHMR Error ellipse: s-maj=6.1km s-min=2.1km az=-1.0.
DHMR I 30 19 53 54.3–1.5 12.00N 43.91E 10–18 3.9L
¶601875707

DHMR Error ellipse: s-maj=14.5km s-min=6.5km az=-1.0.
DHMR I 31 04 35 42.8–1.8 12.06N 43.84E 7–22 4.2L
¶601875711

DHMR Error ellipse: s-maj=17.9km s-min=7.6km az=-1.0.
DHMR I 31 05 56 02.9–1.3 12.07N 43.90E 10–18 3.7L
¶601875712

DHMR Error ellipse: s-maj=15.4km s-min=6.3km az=-1.0.
DHMR I 31 19 26 47.6–1.5 12.08N 43.78E 12–98 4.1L
¶601875715

DHMR Error ellipse: s-maj=46.2km s-min=29.4km az=-1.0.
DHMR II 01 10 22 06.4–1.6 12.06N 44.18E 27–52 3.9L
¶601875716

DHMR Error ellipse: s-maj=26.9km s-min=10.6km az=-1.0.
DHMR II 01 10 54 46.8–1.4 12.06N 43.89E 12–14 3.7L
¶601875717

DHMR Error ellipse: s-maj=12.8km s-min=7.8km az=-1.0.
DHMR II 01 11 17 14.8–2.0 12.11N 43.96E 4–19 3.5L
¶601875719

DHMR Error ellipse: s-maj=17.7km s-min=11.0km az=-1.0.
DHMR II 01 12 37 42.1–1.4 12.17N 44.18E 14–14 4.0L
¶601875723

DHMR Error ellipse: s-maj=12.0km s-min=6.8km az=-1.0.
DHMR II 03 02 00 19.8–2.2 12.08N 43.95E 11–41 3.6L
¶601875731

DHMR Error ellipse: s-maj=32.1km s-min=10.8km az=-1.0.
DHMR II 03 02 05 45.9–2.0 12.04N 43.95E 14–18 4.0L
¶601875732

DHMR Error ellipse: s-maj=16.0km s-min=10.1km az=-1.0.
DHMR II 03 02 11 11.7–1.6 12.16N 43.90E 12–34 3.8L
¶601875733

DHMR Error ellipse: s-maj=25.9km s-min=8.0km az=-1.0.
DHMR II 03 02 56 26.3–1.9 12.11N 44.03E 5–15 3.7L
¶601875738

DHMR Error ellipse: s-maj=15.4km s-min=9.1km az=-1.0.
DHMR II 03 03 02 39.0–1.5 12.07N 43.94E 7–27 4.0L
¶601875739

DHMR Error ellipse: s-maj=21.3km s-min=7.3km az=-1.0.
DHMR II 03 03 19 44.9–2.2 12.03N 43.98E 14–19 4.2L
¶601875741

DHMR Error ellipse: s-maj=17.2km s-min=11.2km az=-1.0.
DHMR II 03 03 51 14.7–1.9 12.12N 43.97E 7–25 3.8L
¶601875742

DHMR Error ellipse: s-maj=21.6km s-min=8.2km az=-1.0.
DHMR II 03 04 40 32.1–2.5 12.12N 43.99E 16–25 3.7L
¶601875743

DHMR Error ellipse: s-maj=21.8km s-min=12.6km az=-1.0.
DHMR II 03 05 02 00.2–1.7 12.05N 43.91E 3–15 3.5L
¶601875744

DHMR Error ellipse: s-maj=16.5km s-min=9.3km az=-1.0.
DHMR II 03 05 37 59.4–2.4 12.04N 43.90E 10–28 4.0L
¶601875745

DHMR Error ellipse: s-maj=23.0km s-min=10.0km az=-1.0.
DHMR II 03 14 19 03.8–1.6 12.27N 43.77E 7–41 3.5L
¶601875747

DHMR Error ellipse: s-maj=29.9km s-min=10.7km az=-1.0.
DHMR II 05 07 20 17.8–1.8 12.12N 43.89E 11–22 3.8L
¶601875752

DHMR Error ellipse: s-maj=17.6km s-min=7.2km az=-1.0.
DHMR II 05 09 15 32.2–1.5 12.13N 44.27E 14–13 3.7L
¶601875753

DHMR Error ellipse: s-maj=13.3km s-min=8.1km az=-1.0.
DHMR II 08 03 19 22.8–2.3 12.09N 43.90E 7–44 3.7L
¶601875765

DHMR Error ellipse: s-maj=33.8km s-min=10.3km az=-1.0.
DHMR II 08 08 15 19.7–2.2 12.20N 44.22E 12–26 3.9L
¶601875768

DHMR Error ellipse: s-maj=20.8km s-min=9.0km az=-1.0.
DHMR II 08 17 45 14.0–1.6 12.02N 43.92E 13–14 3.9L
¶601875769

DHMR Error ellipse: s-maj=13.0km s-min=8.1km az=-1.0.
DHMR II 08 22 25 55.7–2.1 12.02N 44.23E 19–15 3.9L
¶601875770

DHMR Error ellipse: s-maj=14.4km s-min=10.9km az=-1.0.
SGS II 09 11 15 46.0 25.20N 37.79E 19
¶602210770

DHMR II 12 14 55 23.2–1.6 12.11N 43.86E 5–19 4.1L
¶601875779

DHMR Error ellipse: s-maj=15.8km s-min=6.5km az=-1.0.
DHMR II 12 16 50 59.8–1.9 12.13N 43.89E 5–139 3.5L
¶601875781

DHMR Error ellipse: s-maj=144.7km s-min=47.4km az=-1.0.
DHMR II 12 16 54 54.1–1.5 12.10N 43.91E 6–22 3.8L ¶601875782

DHMR Error ellipse: s-maj=18.9km s-min=7.3km az=-1.0.
ISC II 12 17 18 23.2–.77 12.08N–.08 44.09E–.09 10 4.1b,3.3s 24 1-95
DHMR II 12 17 18 17.8–.80 12.09N 43.87E 13–8 4.8L,3.3s **¶16339726**
ISCJB II 12 17 18 21.6–.54 12.05N–.06 44.01E–.05 10 4.0b,3.4s
IDC II 12 17 18 21.3–1.1 11.80N 44.01E 0 4.0,3.9b
NEIC II 12 17 18 22.9–.74 11.88N 44.02E 10 4.3b,3.9b
ISC Event type se.
DHMR Error ellipse: s-maj=8.4km s-min=4.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=4.9km az=139.1.
IDC Error ellipse: s-maj=27.8km s-min=14.4km az=164.0.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=11.5km az=160.0.
DHMR II 12 17 39 16.3–.74 12.02N 43.94E 10–42 3.7L ¶601875786

DHMR Error ellipse: s-maj=48.0km s-min=22.9km az=-1.0.
ISC II 12 18 27 08.7–1.2 12.12N–.08 43.94E–.07 4 12 1-6
DHMR II 12 18 27 07.7–.90 12.08N 43.95E 3–8 4.0L **¶601875788**
ISC Event type ke.
DHMR Error ellipse: s-maj=9.2km s-min=5.3km az=-1.0.
DHMR II 12 19 42 18.8–.65 12.06N 43.96E 9–39 3.6L ¶601875791

DHMR Error ellipse: s-maj=43.2km s-min=18.8km az=-1.0.
DHMR II 12 22 24 29.8–1.6 12.14N 43.87E 10–26 3.7L ¶601875793

DHMR Error ellipse: s-maj=21.2km s-min=9.2km az=-1.0.
DHMR II 12 22 37 25.3–1.9 12.04N 43.94E 14–29 3.5L ¶601875794

DHMR Error ellipse: s-maj=127.6km s-min=66.3km az=-1.0.
ISC II 13 00 29 48.8–1.2 12.09N–.07 43.84E–.07 4 12 1-6
DHMR II 13 00 29 46.4–2.8 11.95N 43.88E 5–41 3.8L **¶601875796**
ISC Event type ke.
DHMR Error ellipse: s-maj=36.0km s-min=15.9km az=-1.0.
ISC II 13 02 02 39.2–1.1 12.11N–.07 43.92E–.05 4 14 1-6
DHMR II 13 02 02 37.8–1.4 12.01N 43.98E 6–8 4.2L **¶601875797**
ISC Event type ke.
DHMR Error ellipse: s-maj=7.6km s-min=5.4km az=-1.0.
DHMR II 13 02 08 44.4–1.8 12.01N 44.01E 4–11 4.1L ¶601875798

DHMR Error ellipse: s-maj=10.0km s-min=7.2km az=-1.0.
ARO II 13 03 41 48.2 12N–5.0 44E–7.0 15–8 3.6L ¶601123825

DHMR II 13 05 18 21.4–1.2 12.06N 44.58E 22–10 3.5L ¶601875799

DHMR Error ellipse: s-maj=24.1km s-min=44.3km az=-1.0.
DHMR II 16 07 58 12.0–2.1 12.17N 44.08E 12–20 4.3L ¶601875801

DHMR Error ellipse: s-maj=17.1km s-min=10.0km az=-1.0.
DHMR II 17 01 53 08.0–1.9 14.80N 43.94E 13–11 3.8L ¶601875803

DHMR Error ellipse: s-maj=3.5km s-min=6.5km az=-1.0.
ISC II 17 12 30 06.6–1.4 12.3N–.20 44.1E–.10 10 3.9b 11 1-63
IDC II 17 12 30 06.1–7.5 12.40N 44.13E 0 3.8,3.7 **¶17192416**
ISC Event type ke.
IDC Error ellipse: s-maj=164.3km s-min=42.8km az=36.0.
ISC II 17 12 59 51.4–1.2 12.20N–.09 44.15E–.08 10 3.8b 15 1-62
IDC II 17 12 59 50.8–2.1 12.38N 44.13E 0 3.8,3.7 **¶17192418**
ISC Event type ke.
IDC Error ellipse: s-maj=54.8km s-min=29.1km az=176.0.
DHMR II 17 13 16 12.2–1.6 12.22N 44.14E 0–4 3.9L ¶601875804

DHMR Error ellipse: s-maj=11.1km s-min=7.0km az=-1.0.
IDC II 17 14 37 33.5–9.1 12.06N 44.23E 0 3.5s,3.5 ¶17192426

IDC Error ellipse: s-maj=356.8km s-min=30.3km az=160.0.
DHMR II 18 04 29 09.8–1.8 12.14N 44.16E 20–123 4.0L ¶601875807

DHMR Error ellipse: s-maj=64.9km s-min=28.7km az=-1.0.
DHMR II 18 09 00 22.1–.72 12.08N 44.26E 16–6 3.6L ¶601875809

DHMR Error ellipse: s-maj=6.2km s-min=4.1km az=-1.0.
DHMR II 18 22 26 59.5–1.9 12.09N 43.94E 4–25 3.6L ¶601875811

DHMR Error ellipse: s-maj=21.4km s-min=8.3km az=-1.0.
DHMR II 18 22 33 58.9–1.7 12.05N 44.01E 13–17 3.6L ¶601875812

DHMR Error ellipse: s-maj=16.6km s-min=9.7km az=-1.0.
DHMR II 19 04 10 17.1–1.3 12.29N 44.06E 3–13 3.5L ¶601875817

DHMR Error ellipse: s-maj=13.5km s-min=6.1km az=-1.0.
ISC II 19 06 17 52.3–.87 12.16N–.06 44.41E–.07 10 3.7b,3.4s 19 1-62
IDC II 19 06 17 51.1–1.4 12.06N 44.36E 0 3.8,3.7b **¶17192520**
DHMR II 19 06 17 52.7–.90 12.12N 44.69E 21–6 4.7L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=46.4km s-min=16.6km az=155.0.
DHMR Error ellipse: s-maj=5.6km s-min=6.8km az=-1.0.
DHMR II 19 11 00 18.5–.99 12.07N 44.30E 21–115 3.6L ¶601875822

DHMR Error ellipse: s-maj=58.4km s-min=24.1km az=-1.0.
DHMR II 19 11 24 56.4–1.8 12.11N 44.26E 21–175 3.8L ¶601875823

DHMR Error ellipse: s-maj=87.2km s-min=40.1km az=-1.0.
DHMR II 19 13 27 20.2–.82 12.06N 44.37E 22–115 3.7L ¶601875825

DHMR Error ellipse: s-maj=59.3km s-min=22.2km az=-1.0.
ISC II 21 01 00 58.0–1.8 12.32N–.06 44.34E–.07 11–16 14 1-7
DHMR II 21 01 00 53.8–2.4 12.17N 44.23E 3–19 4.0L **¶601875830**
ISC Event type ke.
DHMR Error ellipse: s-maj=18.3km s-min=11.2km az=-1.0.
DHMR II 21 01 03 00.9–1.3 12.17N 44.24E 9–15 3.9L ¶601875831

DHMR Error ellipse: s-maj=12.0km s-min=5.4km az=-1.0.
ISC II 21 03 02 24.1–.84 12.02N–.06 44.34E–.07 10 4.0b,3.3s 22 1-62
DHMR II 21 03 02 19.3–2.1 11.85N 44.25E 16–26 4.4L,3.3s **¶17192614**
ISCJB II 21 03 02 21.4–.70 11.84N–.05 44.25E–.06 10 3.8b,3.3s
IDC II 21 03 02 21.1–1.6 11.70N 44.10E 0 4.0,3.9
ISC Event type ke.
DHMR Error ellipse: s-maj=20.5km s-min=10.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=5.7km az=38.0.
IDC Error ellipse: s-maj=44.5km s-min=17.6km az=165.0.
ISC II 21 18 49 14.0–1.8 12.21N–.07 44.21E–.07 8–11 3.8b,3.4s 23 1-94
DHMR II 21 18 49 08.8–2.5 12.00N 44.01E 15–22 4.3L,3.4s **¶17192652**
IDC II 21 18 49 11.0–1.9 11.85N 44.27E 0 3.9,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=19.0km s-min=12.7km az=-1.0.
IDC Error ellipse: s-maj=45.5km s-min=22.3km az=1.0.
DHMR II 22 09 40 34.1–1.3 12.22N 44.01E 6–28 3.6L ¶601875837

DHMR Error ellipse: s-maj=21.3km s-min=5.7km az=-1.0.
DHMR II 23 04 16 08.2–1.3 12.02N 44.19E 18–11 3.8L ¶601875838

DHMR Error ellipse: s-maj=9.6km s-min=6.6km az=-1.0.
DHMR II 25 03 37 21.2–1.3 12.09N 44.72E 21–7 4.2L ¶601875842

DHMR Error ellipse: s-maj=8.9km s-min=9.7km az=-1.0.
DHMR III 01 14 21 55.1–1.4 12.05N 43.85E 6–20 3.9L ¶601875847

DHMR Error ellipse: s-maj=18.0km s-min=7.1km az=-1.0.
ISC III 05 08 13 35.7–1.8 12.01N–.07 43.93E–.05 5–15 19 1-6
DHMR III 05 08 13 35.4–1.9 12.08N 43.87E 13–10 4.4L **¶601123954**
ISCJB III 05 08 13 36.0–1.2 12.05N–.07 43.93E–.05 2–10 4.4L
ARO III 05 08 13 38.9 12N–7.0 44E–6.0 11–14 3.4L
ISC Event type ke.
ISCJB Event type ke.
ISC III 09 18 24 37.6–1.6 12.06N–.06 43.86E–.05 1–14 22 1-6
DHMR III 09 18 24 36.3–1.4 12.05N 43.81E 12–11 4.4L **¶601123975**
ARO III 09 18 24 41.3 12N–7.0 44E–6.0 10–14 3.6L
ISC Event type ke.
DHMR III 13 13 32 17.2–.40 12.11N 44.03E 15–14 3.5L ¶601875864

DHMR Error ellipse: s-maj=19.9km s-min=15.2km az=-1.0.
DHMR III 13 13 40 52.7–.90 12.06N 44.16E 14–8 3.9L ¶601875865

DHMR Error ellipse: s-maj=7.4km s-min=4.6km az=-1.0.
DHMR III 13 13 54 16.1–.79 12.10N 44.04E 11–35 3.6L ¶601875866

DHMR Error ellipse: s-maj=34.3km s-min=12.6km az=-1.0.
DHMR III 13 14 00 33.6–.68 12.03N 44.11E 4–19 3.6L ¶601875867

DHMR Error ellipse: s-maj=34.3km s-min=28.8km az=-1.0.
ISC III 13 14 08 10.6–.72 12.19N–.06 44.15E–.06 4 4.0b 26 1-62
IDC III 13 14 08 07.5–1.4 11.75N 44.04E 0 4.0,3.9 **¶16407518**
DHMR III 13 14 08 08.7–1.4 12.04N 44.09E 9–16 4.4L,3.9
NEIC III 13 14 08 09.3–.88 11.85N 44.02E 10 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=37.0km s-min=14.7km az=164.0.
DHMR Error ellipse: s-maj=14.9km s-min=6.3km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=9.9km az=155.0.
DHMR III 13 14 17 52.1–1.3 12.04N 44.14E 17–11 3.5L ¶601875871

DHMR Error ellipse: s-maj=10.3km s-min=7.0km az=-1.0.
DHMR III 13 14 41 59.3–1.1 12.04N 44.15E 11–13 4.2L ¶601875874

DHMR Error ellipse: s-maj=10.6km s-min=5.5km az=-1.0.
DHMR III 13 14 57 05.7–.91 12.00N 44.17E 18–13 3.8L ¶601875876

DHMR Error ellipse: s-maj=10.2km s-min=4.3km az=-1.0.
DHMR III 13 15 02 05.2–1.3 12.09N 44.18E 17–11 3.5L ¶601875877

DHMR Error ellipse: s-maj=10.4km s-min=6.9km az=-1.0.
DHMR III 13 15 04 18.1–.67 12.07N 44.12E 12–7 3.9L ¶601875878

DHMR Error ellipse: s-maj=6.7km s-min=4.7km az=-1.0.
DHMR III 13 15 19 51.4–.95 12.06N 43.95E 12–29 3.8L ¶601875881

DHMR Error ellipse: s-maj=26.3km s-min=6.8km az=-1.0.
DHMR III 13 15 25 02.6–1.6 12.10N 44.15E 14–15 3.6L ¶601875882

DHMR Error ellipse: s-maj=13.2km s-min=8.3km az=-1.0.
DHMR III 13 15 27 02.9–.86 12.15N 44.17E 20–597 3.7L ¶601875883

DHMR Error ellipse: s-maj=236.2km s-min=216.9km az=-1.0.
DHMR III 13 15 29 38.9–1.1 12.00N 44.19E 18–8 4.1L ¶601875884

DHMR Error ellipse: s-maj=9.0km s-min=6.3km az=-1.0.
ISC III 13 15 41 52.2–.88 12.11N–.06 44.06E–.06 10 3.7b 19 1-63
DHMR III 13 15 41 47.0–1.2 11.97N 43.93E 11–10 4.2L **¶16477536**
IDC III 13 15 41 51.0–1.7 11.68N 44.08E 0 3.8,3.7
ISCJB III 13 15 41 51.3–.71 12.00N–.06 44.07E–.05 10 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC III 13 15 53 10.7–1.0 12.16N–.08 44.10E–.07 4 3.9b 19 1-63
DHMR III 13 15 53 06.2–1.2 11.90N 44.10E 14–10 4.4L **¶17194912**
IDC III 13 15 53 08.3–2.0 11.75N 44.12E 0 4.2s,4.2
ISC Event type ke.
DHMR Error ellipse: s-maj=10.3km s-min=7.3km az=-1.0.
IDC Error ellipse: s-maj=48.8km s-min=23.3km az=0.0.
ISC III 13 15 59 04.8–.94 12.02N–.07 44.09E–.07 10 4.0s,3.8b 20 1-53
DHMR III 13 15 59 02.0–1.9 12.06N 43.98E 11–23 4.4L,3.8b **¶17194914**
IDC III 13 15 59 03.0–1.6 11.76N 44.07E 0 4.0s,4.0
ISCJB III 13 15 59 03.3–.75 11.96N–.06 44.07E–.06 10 4.0s,3.7b
ISC Event type ke.
ISCJB Event type ke.
DHMR III 13 16 14 07.5–.32 12.14N 44.12E 6–4 3.5L ¶601875887

DHMR Error ellipse: s-maj=4.7km s-min=2.2km az=-1.0.
ISC III 13 16 17 33.0–.98 12.04N–.09 44.07E–.07 4 3.8b 13 1-63
DHMR III 13 16 17 29.4–.78 11.88N 44.10E 14–87 4.3L **¶17194916**
ISCJB III 13 16 17 30.8–.93 11.88N–.08 44.13E–.07 4 3.6b
IDC III 13 16 17 32.0–1.7 11.76N 44.03E 0 3.8,3.6
ISC Event type ke.
DHMR Error ellipse: s-maj=45.5km s-min=16.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=14.2km s-min=5.9km az=142.4.
IDC Error ellipse: s-maj=44.0km s-min=18.0km az=165.0.
DHMR III 13 16 36 58.4–.82 12.04N 44.17E 14–10 3.5L ¶601875888

DHMR Error ellipse: s-maj=8.8km s-min=5.8km az=-1.0.
DHMR III 13 16 53 18.9–1.7 12.07N 44.13E 18–20 3.6L ¶601875891

DHMR Error ellipse: s-maj=16.9km s-min=11.9km az=-1.0.
DHMR III 13 17 30 39.3–.89 12.04N 44.15E 9–20 3.6L ¶601875896

DHMR Error ellipse: s-maj=15.1km s-min=5.3km az=-1.0.
DHMR III 13 18 18 34.0–.78 12.09N 44.04E 17–56 3.9L ¶601875898

DHMR Error ellipse: s-maj=29.3km s-min=14.3km az=-1.0.
DHMR III 13 18 40 10.0–1.1 12.01N 44.11E 7–25 3.5L ¶601875899

DHMR Error ellipse: s-maj=18.8km s-min=6.7km az=-1.0.
DHMR III 13 18 44 38.7–1.1 12.05N 44.15E 8–25 3.8L ¶601875900

DHMR Error ellipse: s-maj=17.7km s-min=6.1km az=-1.0.
ISC III 13 18 50 39.0–1.8 12.17N–.09 44.07E–.09 4 8 1-6
DHMR III 13 18 50 37.7–1.0 12.12N 44.05E 11–27 4.0L **¶601875901**
ISCJB III 13 18 50 42.8–1.4 12.25N–.08 44.17E–.08 4 4.0L
ISC Event type ke.
ISCJB Event type ke.
DHMR III 13 20 42 47.9–1.3 12.01N 44.10E 10–29 3.8L ¶601875909

DHMR Error ellipse: s-maj=20.8km s-min=7.3km az=-1.0.
ISC III 13 21 55 03.0–1.3 12.20N–.07 44.24E–.07 4 10 1-6
DHMR III 13 21 55 00.7–1.5 12.02N 44.16E 12–33 3.8L **¶601875912**
ISC Event type ke.
DHMR Error ellipse: s-maj=23.2km s-min=8.6km az=-1.0.
DHMR III 15 20 49 58.0–1.1 12.06N 44.06E 5–13 3.7L ¶601875919

DHMR Error ellipse: s-maj=10.4km s-min=4.7km az=-1.0.
DHMR III 24 18 44 00.8–1.1 12.06N 43.89E 13–76 3.7L ¶601875940

DHMR Error ellipse: s-maj=37.0km s-min=21.0km az=-1.0.
DHMR III 26 08 51 47.4–2.2 12.11N 43.80E 11–43 3.5L ¶601875945

DHMR Error ellipse: s-maj=31.2km s-min=10.4km az=-1.0.
DHMR III 27 16 38 57.7–1.6 12.10N 43.90E 7–19 3.9L ¶601875946

DHMR Error ellipse: s-maj=15.6km s-min=7.0km az=-1.0.
DHMR III 28 23 23 23.0–1.8 12.04N 43.85E 9–23 3.7L ¶601875947

DHMR Error ellipse: s-maj=18.3km s-min=8.3km az=-1.0.
DHMR III 28 23 25 14.5–1.1 12.08N 43.91E 12–15 3.6L ¶601875948

DHMR Error ellipse: s-maj=15.4km s-min=6.7km az=-1.0.
ISC III 29 23 58 27.6–.97 12.23N–.06 43.94E–.07 10 3.9b 15 1-92
IDC III 29 23 58 25.6–2.3 11.74N 44.02E 0 3.9,3.8 ¶17199128
DHMR III 29 23 58 26.1–2.5 12.10N 44.00E 12–33 4.3L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=60.2km s-min=17.5km az=159.0.
DHMR Error ellipse: s-maj=27.8km s-min=11.8km az=-1.0.
ISC III 30 01 05 08.6–.90 12.18N–.07 44.18E–.07 4 3.6b,3.5s 20 1-62
DHMR III 30 01 05 04.7–1.7 12.11N 43.96E 7–21 4.2L,3.5s ¶17199132
IDC III 30 01 05 05.5–2.0 11.68N 44.12E 0 3.6,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=17.2km s-min=7.7km az=-1.0.
IDC Error ellipse: s-maj=45.4km s-min=12.7km az=158.0.
ISC III 30 01 15 48.6–.95 12.02N–.09 44.05E–.07 4 3.6b 21 1-63
IDC III 30 01 15 45.1–1.3 11.37N 44.17E 0 3.7,3.6 ¶17199134
DHMR III 30 01 15 47.0–1.9 12.12N 43.95E 11–21 4.2L,3.6
ISCJB III 30 01 15 47.2–.79 12.01N–.06 44.02E–.06 4 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 30 01 25 33.1–.73 12.11N–.07 44.02E–.06 10 3.8b,3.4s 29 1-63
DHMR III 30 01 25 28.3–1.4 12.08N 43.94E 10–14 4.7L,3.4s ¶17199136
ISCJB III 30 01 25 31.5–.62 12.05N–.05 44.01E–.05 10 3.8b,3.4s
IDC III 30 01 25 31.6–1.4 11.94N 44.00E 0 3.8,3.8
ISC Event type ke.
DHMR Error ellipse: s-maj=13.0km s-min=6.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.9km s-min=5.3km az=43.2.
IDC Error ellipse: s-maj=30.5km s-min=17.2km az=158.0.
ISC III 30 01 36 20.0–.98 12.13N–.08 44.07E–.08 4 3.7b 16 1-63
DHMR III 30 01 36 17.7–1.6 12.11N 44.00E 14–16 4.3L ¶17199139
ISCJB III 30 01 36 18.3–.81 12.04N–.06 44.05E–.06 4 3.5b
IDC III 30 01 36 18.9–2.2 11.86N 44.21E 0 3.7,3.6
ISC Event type ke.
DHMR Error ellipse: s-maj=15.0km s-min=9.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.5km az=137.8.
IDC Error ellipse: s-maj=54.7km s-min=13.2km az=155.0.
DHMR III 30 01 38 53.5–1.6 12.12N 43.89E 3–42 3.6L
¶601875953

DHMR Error ellipse: s-maj=34.3km s-min=8.8km az=-1.0.
ISC III 30 01 42 48.6–.73 12.06N–.04 44.17E–.05 3–4 4.6b,4.1s 213 1-128
DHMR III 30 01 42 42.5–1.4 11.93N 44.00E 5–14 5.1L,4.1s ¶16391170
BJI III 30 01 42 44.9 12.17N 43.49E 10 5.2b,4.8s
IDC III 30 01 42 47.0–.65 11.86N 44.03E 0 4.4,4.3
CSEM III 30 01 42 48.9–.44 11.88N 43.86E 10 4.5b,4.3
ISCJB III 30 01 42 48.0–.28 11.96N–.03 44.05E–.03 15 4.6b,4.1s
NEIC III 30 01 42 49.2–.28 11.99N 44.06E 10 4.9b,4.1s
ISC Event type ke.
DHMR Error ellipse: s-maj=13.0km s-min=7.1km az=-1.0.
IDC Error ellipse: s-maj=15.9km s-min=9.5km az=161.0.
CSEM Event type ke. Error ellipse: s-maj=17.6km s-min=13.9km az=112.0.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=4.6km az=148.0.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=5.6km az=29.0.
DHMR III 30 06 26 19.9–1.4 12.16N 43.85E 12–18 4.2L
¶601875958

DHMR Error ellipse: s-maj=14.5km s-min=6.2km az=-1.0.
DHMR IV 04 02 35 53.5–1.6 12.07N 43.93E 10–20 3.5L
¶601875965

DHMR Error ellipse: s-maj=15.7km s-min=7.2km az=-1.0.
DHMR IV 07 20 00 02.4–1.8 12.18N 43.73E 2–156 3.6L
¶601875973

DHMR Error ellipse: s-maj=154.2km s-min=27.5km az=-1.0.
DHMR IV 08 00 39 55.0–1.1 12.12N 44.00E 4–11 4.0L
¶601875975

DHMR Error ellipse: s-maj=10.5km s-min=6.3km az=-1.0.
DHMR IV 08 02 11 06.0–1.5 12.13N 43.88E 2–5 3.5L
¶601875977

DHMR Error ellipse: s-maj=13.0km s-min=7.0km az=-1.0.
DHMR IV 09 18 12 34.5–.49 12.02N 43.95E 14–6 3.8L
¶601875982

DHMR Error ellipse: s-maj=5.5km s-min=3.7km az=-1.0.
SGS IV 15 12 45 42.8 25.24N 37.79E 8
¶602596221

DHMR IV 19 08 45 06.4–1.1 12.15N 43.95E 14–12 4.1L
¶601875988

DHMR Error ellipse: s-maj=10.3km s-min=5.7km az=-1.0.
ISC IV 19 09 08 03.6–.38 12.02N–.04 43.97E–.04 10 4.6b,4.1s 266 1-104
DHMR IV 19 09 07 56.7–1.6 11.90N 43.99E 11–17 4.9L,4.1s ¶16449046
BJI IV 19 09 07 57.3 11.74N 43.36E 8 5.1b,4.7s
ARO IV 19 09 08 01.4 12N–9.0 44E–8.0 10–21 4.5L,4.7s
IDC IV 19 09 08 01.6–.91 11.91N 44.10E 0 4.2b,4.2
ISCJB IV 19 09 08 01.7–.24 11.96N–.03 44.02E–.03 10 4.5b,4.1s
MOS IV 19 09 08 02.0–1.1 11.92N 43.98E 12 4.8b,4.0s
CSEM IV 19 09 08 02.5–.26 12.00N 44.13E 2 4.8b,4.0s
NEIC IV 19 09 08 03.2–.47 11.92N 43.99E 10 4.8b,4.0s
OMAN IV 19 09 08 04.4–.07 11.90N 44.19E 14 4.8b,4.0s
DSN IV 19 09 08 10.9–1.2 12.66N 44.32E 14 5.1b,4.0s
ISC Event type ke.
DHMR Error ellipse: s-maj=16.2km s-min=8.5km az=-1.0.
IDC Error ellipse: s-maj=19.4km s-min=16.6km az=11.0.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=2.6km az=139.8.
MOS Error ellipse: s-maj=11.3km s-min=5.3km az=91.2.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=7.8km az=164.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.9km az=154.0.
OMAN Error ellipse: s-maj=48.7km s-min=16.3km az=310.0.
DSN Error ellipse: s-maj=18.9km s-min=7.5km az=3.0.
DHMR IV 19 09 16 12.9–1.3 12.13N 44.04E 2–14 3.8L
¶601875992

DHMR Error ellipse: s-maj=12.7km s-min=7.1km az=-1.0.
DHMR IV 19 09 17 49.3–1.4 12.06N 44.15E 8–17 4.2L
¶601875993

DHMR Error ellipse: s-maj=14.4km s-min=6.6km az=-1.0.
DHMR IV 19 09 20 51.6–1.7 12.08N 43.94E 13–20 3.9L
¶601875994

DHMR Error ellipse: s-maj=16.7km s-min=10.2km az=-1.0.
DHMR IV 19 09 29 49.8–1.4 12.02N 44.02E 2–6 4.0L
¶601875996

DHMR Error ellipse: s-maj=11.0km s-min=7.5km az=-1.0.
DHMR IV 19 09 46 30.4–1.7 12.05N 43.87E 9–36 3.8L
¶601875997

DHMR Error ellipse: s-maj=25.8km s-min=8.4km az=-1.0.
DHMR IV 19 09 51 03.7–1.8 12.12N 44.09E 30–15 4.3L
¶601876001

DHMR Error ellipse: s-maj=12.1km s-min=11.0km az=-1.0.
ISC IV 19 09 57 17.2–1.9 12.2N–.10 44.3E–.10 4 3.7b 9 2-47
DHMR IV 19 09 57 11.2–1.4 11.93N 44.16E 14–264 4.0L ¶17201490
IDC IV 19 09 57 12.8–3.8 11.68N 44.13E 0 3.6,3.6
ISC Event type ke.
DHMR Error ellipse: s-maj=139.1km s-min=41.3km az=-1.0.
IDC Error ellipse: s-maj=96.0km s-min=34.1km az=158.0.
DHMR IV 19 10 09 27.2–1.7 12.01N 43.96E 19–361 3.8L
¶601876002

DHMR Error ellipse: s-maj=184.9km s-min=72.5km az=-1.0.
DHMR IV 19 10 18 54.2–.96 12.06N 44.17E 7–13 3.8L
¶601876004

DHMR Error ellipse: s-maj=9.8km s-min=6.0km az=-1.0.
DHMR IV 19 11 24 38.2–.52 12.08N 44.00E 7–11 3.7L
¶601876006

DHMR Error ellipse: s-maj=8.5km s-min=3.2km az=-1.0.
DHMR IV 19 17 20 49.2–1.8 12.02N 43.92E 3–18 3.5L
¶601876007

DHMR Error ellipse: s-maj=19.0km s-min=11.2km az=-1.0.
DHMR IV 19 22 52 47.5–1.7 12.08N 43.87E 13–20 3.6L
¶601876011

DHMR Error ellipse: s-maj=16.4km s-min=9.4km az=-1.0.
DHMR IV 20 04 22 46.5–.54 12.02N 43.95E 10–11 4.1L
¶601876015

DHMR Error ellipse: s-maj=8.2km s-min=2.7km az=-1.0.
DHMR IV 21 10 01 27.3–1.2 12.13N 43.96E 12–20 4.2L
¶601876018

DHMR Error ellipse: s-maj=13.8km s-min=11.6km az=-1.0.
ISC IV 28 06 26 39.5–.76 12.30N–.06 44.15E–.06 10 3.7b 21 1-62
DHMR IV 28 06 26 33.9–1.2 11.96N 44.01E 15–21 4.4L ¶17202284
IDC IV 28 06 26 35.9–1.9 11.96N 44.10E 0 3.9,3.8
ISC Event type ke.
DHMR Error ellipse: s-maj=14.4km s-min=14.5km az=-1.0.
IDC Error ellipse: s-maj=46.8km s-min=21.4km az=175.0.
DHMR IV 28 06 31 05.3–.31 12.04N 44.12E 13–20 4.0L
¶601876021

DHMR Error ellipse: s-maj=12.1km s-min=9.9km az=-1.0.
ISC IV 28 06 52 07.0–1.1 12.11N–.07 44.01E–.07 4 15 1-2
ISCJB IV 28 06 52 06.8–1.0 11.93N–.08 44.10E–.07 4 ¶601124375
DHMR IV 28 06 52 07.7–.56 12.09N 44.03E 3–33 4.3L
ARO IV 28 06 52 09.7 12N–6.0 44E–3.0 11–11 3.6L
ISC Event type ke.
ISCJB Event type ke.
DHMR IV 28 07 02 02.4–.65 12.11N 44.11E 3–43 3.7L
¶601876022

DHMR Error ellipse: s-maj=28.4km s-min=20.2km az=-1.0.
ISC IV 28 07 13 36.3–1.2 12.05N–.08 44.02E–.08 4 12 1-2
ISCJB IV 28 07 13 36.9–1.0 11.93N–.09 44.10E–.08 4 ¶601124374
ARO IV 28 07 13 39.5 12N–3.0 44E–4.0 15–5 3.3L
ISC Event type ke.
ISCJB Event type ke.
DHMR IV 28 07 27 11.2–.36 12.12N 44.09E 3–21 3.8L
¶601876023

DHMR Error ellipse: s-maj=13.7km s-min=10.1km az=-1.0.
ISC IV 29 15 38 50.4–3.4 14.6N–.40 42.0E–.20 9 3.6b,2.9s 8 2-52
IDC IV 29 15 38 37.8–13 13.14N 41.67E 0 3.7,3.6b ¶601876024
DHMR IV 29 15 38 54.5–.84 15.05N 42.43E 2–40 3.8L,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=280.3km s-min=44.9km az=11.0.
DHMR Error ellipse: s-maj=13.5km s-min=55.7km az=-1.0.
ISC IV 29 16 41 32.9–.37 15.19N–.04 42.15E–.04 10 4.5b,3.8s 355 1-125
BJI IV 29 16 41 28.9 15.10N 41.59E 10 4.9b,4.5 ¶16485465
ISCJB IV 29 16 41 31.1–.18 15.13N–.02 42.12E–.02 10 4.5b,3.7s
IDC IV 29 16 41 31.3–.85 15.09N 42.06E 0 4.4,4.4
DHMR IV 29 16 41 31.8–.59 15.09N 42.36E 4–7 4.9L,4.4
STR IV 29 16 41 31.5–.00 14.97N 41.80E 4.6b,4.4
CSEM IV 29 16 41 32.3–.18 15.03N 42.06E 10 4.5b,4.4
MOS IV 29 16 41 32.2–1.3 15.11N 42.01E 20 4.7b,4.4
NEIC IV 29 16 41 32.1–4.6 15.09N 42.03E 10–30 4.6b,4.4
ARO IV 29 16 41 33.2 15N–41 42E–100 15–99 5.0L,4.4
DSN IV 29 16 41 49.8–4.6 16.66N 43.06E 10 5.2b,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.1km s-min=2.6km az=42.2.
IDC Error ellipse: s-maj=18.4km s-min=16.5km az=10.0.
DHMR Error ellipse: s-maj=4.2km s-min=5.3km az=-1.0.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.1km s-min=5.4km az=24.0.
MOS Error ellipse: s-maj=10.8km s-min=5.5km az=96.7.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.5km az=203.0.
DSN Error ellipse: s-maj=4.9km s-min=2.6km az=7.0.
ISC IV 30 02 21 13.8–3.3 15.20N–.05 42.18E–.06 0–20 3.8b,3.4s 20 1-78
SGS IV 30 02 21 08.6 14.94N 41.50E 18 3.8b,3.4s ¶17202426
DHMR IV 30 02 21 13.7–1.6 15.07N 42.29E 4–34 4.3L,3.4s
IDC IV 30 02 21 14.0–1.3 15.08N 42.08E 0 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=13.4km s-min=22.3km az=-1.0.
IDC Error ellipse: s-maj=29.3km s-min=23.6km az=85.0.
ISC IV 30 03 32 23.8–.91 15.13N–.07 42.28E–.07 8 3.5b 13 1-61
ISCJB IV 30 03 32 22.4–.71 15.13N–.05 42.22E–.05 8 3.5s,3.5b ¶17202428
IDC IV 30 03 32 22.5–1.3 15.13N 42.31E 0 3.7,3.6
DHMR IV 30 03 32 26.2–.62 14.98N 42.52E 2–22 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=7.1km az=135.4.
IDC Error ellipse: s-maj=32.7km s-min=23.7km az=90.0.
DHMR Error ellipse: s-maj=6.1km s-min=32.2km az=-1.0.
ISC IV 30 06 39 55.4–.41 15.12N–.05 42.18E–.05 10 4.4b,4.2s 281 1-125
ISCJB IV 30 06 39 54.0–.24 15.11N–.03 42.12E–.03 10 4.4b,4.1s ¶16485472
IDC IV 30 06 39 54.0–.97 15.08N 42.07E 0 4.4,4.3
DHMR IV 30 06 39 54.9–.84 15.06N 42.32E 2–57 4.1L,4.3
NEIC IV 30 06 39 55.0–.31 15.00N 42.06E 10 4.6b,4.3
MOS IV 30 06 39 55.6–.76 15.08N 42.08E 23 4.6b,4.3
CSEM IV 30 06 39 55.6–.17 15.08N 42.13E 10 4.5b,4.3
ARO IV 30 06 39 56.4 15N–53 42E–100 15–99 3.9L,4.3
ISC Event type ke.
ISCJB Event type ke.
NEIC Event type se.
CSEM Event type ke.
ISC IV 30 13 48 48.4–.44 15.07N–.05 42.16E–.05 10 4.1b,3.2s 115 2-88
DHMR IV 30 13 48 42.7–1.5 14.89N 42.10E 3–99 4.6L,3.2s ¶16485925
ISCJB IV 30 13 48 46.7–.31 15.09N–.03 42.15E–.04 10 4.2b,3.2s
IDC IV 30 13 48 46.8–.98 15.05N 42.12E 0 4.3,4.1
MOS IV 30 13 48 47.9–.99 15.14N 42.16E 17 4.5b,4.1
CSEM IV 30 13 48 48.4–.24 15.08N 42.16E 10 4.3b,4.1
NEIC IV 30 13 48 48.1–.52 15.04N 42.14E 10 4.3b,4.1
ARO IV 30 13 48 49.4 15N–26 42E–100 15–99 3.9L,4.1
ISC Event type ke.
ISCJB Event type ke.
CSEM Event type ke.
NEIC Event type se.
ISC IV 30 22 36 00.8–.38 15.19N–.05 42.28E–.04 8 4.4b,3.5s 306 1-125
DHMR IV 30 22 35 58.8–1.0 15.10N 42.30E 2–11 4.1L,3.5s ¶16485941
IDC IV 30 22 35 59.4–.67 15.12N 42.10E 0 4.3,4.2
CSEM IV 30 22 35 59.5–.15 15.15N 42.20E 2 4.5b,4.2
ISCJB IV 30 22 35 59.1–.21 15.21N–.03 42.20E–.02 8 4.4b,3.5s
MOS IV 30 22 36 00.8–.82 15.18N 42.24E 22 4.6b,3.5s
NEIC IV 30 22 36 01.1–.28 15.20N 42.24E 10 4.5b,3.5s
DSN IV 30 22 36 12.3–34 16.28N 42.65E 10 5.0b,3.5s
ISC Event type ke.
DHMR Error ellipse: s-maj=7.9km s-min=8.8km az=-1.0.
IDC Error ellipse: s-maj=14.8km s-min=14.2km az=45.0.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=39.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=30.2.
MOS Error ellipse: s-maj=10.2km s-min=5.1km az=93.7.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.2km az=47.0.
DSN Error ellipse: s-maj=13.4km s-min=2.1km az=3.0.
ISC V 01 09 49 17.1–1.2 15.1N–.20 42.30E–.08 8 3.8b 10 1-62
IDC V 01 09 49 15.6–2.6 14.98N 42.15E 0 3.7,3.6 ¶17202510
ISCJB V 01 09 49 16.2–1.0 15.2N–.10 42.23E–.06 8 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
SGS V 01 14 17 31.1 25.22N 37.79E 10
¶602744705

ISC V 01 21 55 17.6–3.1 15.22N–.04 42.20E–.09 28–25 3.6b 15 1-51
DHMR V 01 21 55 11.9–1.3 14.98N 42.18E 3–674 3.9L ¶17202563
IDC V 01 21 55 15.3–1.8 14.98N 41.67E 0 3.6,3.5
SGS V 01 21 55 16.0 15.13N 42.13E 18 3.6,3.5
ISC Event type ke.
DHMR Error ellipse: s-maj=270.2km s-min=999.9km az=-1.0.
IDC Error ellipse: s-maj=49.4km s-min=25.1km az=77.0.
ISC V 01 23 28 11.7–2.0 15.22N–.07 42.1E–.10 10 12 2-4
ISCJB V 01 23 28 10.6–1.7 15.23N–.05 42.1E–.10 10 ¶601876025

SGS V 01 23 28 11.6 15.17N 41.65E 23
DHMR V 01 23 28 11.9–.42 15.06N 42.30E 2–41 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.9km s-min=5.8km az=162.8.
DHMR Error ellipse: s-maj=15.9km s-min=22.5km az=-1.0.
ISC V 02 01 28 34.4–3.3 15.10N–.04 42.3E–.10 16–22 25 1-5
SGS V 02 01 28 30.5 14.93N 41.50E 26 ¶601124397
ISCJB V 02 01 28 33.9–2.0 15.19N–.03 42.12E–.07 9–15
DHMR V 02 01 28 35.6–1.2 15.06N 42.35E 2–33 3.5L
ARO V 02 01 28 37.6 15N–16 42E–61 15–99 3.4L
ISC Event type ke.
ISCJB Event type ke.
ISC V 02 09 40 11.7–1.0 14.9N–.20 42.1E–.10 10 3.4b 9 2-48
DHMR V 02 09 40 03.4–1.5 15.43N 42.02E 8–22 3.4L ¶17202602
IDC V 02 09 40 09.3–3.5 14.72N 42.17E 0 3.8,3.6
ISC Event type ke.
DHMR Error ellipse: s-maj=11.3km s-min=16.4km az=-1.0.
IDC Error ellipse: s-maj=73.5km s-min=35.5km az=151.0.
ISC V 02 14 32 33.6–1.2 12.04N–.07 43.91E–.07 4 18 1-4
ISCJB V 02 14 32 34.6–.86 11.95N–.06 43.98E–.06 4 ¶601124399
DHMR V 02 14 32 34.9–1.0 12.05N 43.93E 9–8 4.1L
ARO V 02 14 32 38.3 12N–8.0 44E–5.0 11–16 3.4L
ISC Event type ke.
ISCJB Event type ke.
DHMR V 02 16 35 18.9–.76 12.14N 43.96E 16–6 3.5L
¶601876026
DHMR Error ellipse: s-maj=5.1km s-min=4.6km az=-1.0.
ISC V 03 02 20 32.7–2.8 15.03N–.09 42.1E–.10 10 13 2-4
DHMR V 03 02 20 36.4–1.6 14.97N 42.27E 2–153 3.5L ¶601124407
ARO V 03 02 20 40.3 15N–25 42E–100 15–99 3.2L
ISC Event type ke.
ISC V 03 07 55 53.3–.84 14.85N–.06 42.30E–.07 8 3.6b 21 2-51
IDC V 03 07 55 54.3–3.0 15.00N 42.06E 0 3.7,3.6 ¶17202662
ARO V 03 07 56 04.4 14N–32 42E–100 15–99 3.8L,3.6
ISC Event type ke.
ISC V 03 09 40 35.9–1.6 12.08N–.06 43.89E–.06 7–15 17 1-4
DHMR V 03 09 40 35.9–1.9 12.07N 43.92E 10–15 4.3L ¶601124408
ARO V 03 09 40 39.2 12N–7.0 44E–3.0 10–11 3.5L
ISC Event type ke.
DHMR V 03 09 59 27.8–1.5 12.14N 43.97E 6–11 3.6L
¶601876028
DHMR Error ellipse: s-maj=9.9km s-min=8.1km az=-1.0.
ISC V 03 11 32 18.1–2.5 29.9N–.10 36.22E–.09 3 16 1-3
HLW V 03 11 32 18.4 29.93N 36.32E 10–12 3.1L,2.9 ¶601780734
SGS V 03 11 32 18.9 29.93N 36.19E 0 3.1L,2.9
ISC Event type ke.
ISC V 03 11 41 20.7–1.7 12.05N–.06 43.93E–.07 7–15 17 1-3
ISCJB V 03 11 41 20.4–1.2 12.00N–.07 43.95E–.07 4–10 ¶601124409
DHMR V 03 11 41 21.4–1.5 12.10N 43.93E 7–17 4.0L
ARO V 03 11 41 22.8 12N–10 44E–8.0 9–20 3.0L
ISC Event type ke.
ISCJB Event type ke.
ISC V 03 15 12 09.8–.99 15.12N–.06 42.25E–.07 10 3.9b,3.4s 25 1-86
DHMR V 03 15 12 06.4–1.3 15.17N 42.24E 9–46 4.3L,3.4s ¶16577969
IDC V 03 15 12 08.3–1.5 15.00N 41.67E 0 4.0,3.8
ISCJB V 03 15 12 09.1–.63 15.05N–.04 42.23E–.05 10 3.9b,3.4s
NEIC V 03 15 12 10.9–1.1 14.96N 42.27E 10 4.5b,3.4s
ARO V 03 15 12 11.2 15N–27 42E–100 15–99 3.6L,3.4s
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 03 18 50 32.9–.41 15.25N–.03 42.16E–.03 10 4.2b,4.0s 206 1-125
DHMR V 03 18 50 26.4–2.1 15.21N 41.95E 6–21 4.8L,4.0s ¶16497555
ISCJB V 03 18 50 30.6–.21 15.09N–.03 42.08E–.03 10 4.3b,3.9s
IDC V 03 18 50 30.8–.88 15.07N 42.03E 0 4.1,4.0L
SGS V 03 18 50 31.3 15.22N 41.92E 18 4.1,4.0L
NEIC V 03 18 50 32.0–.36 15.05N 42.06E 10 4.4b,4.0L
CSEM V 03 18 50 32.3–.20 15.07N 42.09E 10 4.4b,4.0L
ARO V 03 18 50 33.3 15N–18 42E–97 15–99 4.0L,4.0L
ISC Event type ke.
ISCJB Event type ke.
NEIC Event type se.
CSEM Event type ke.
SGS V 03 21 39 08.2 25.19N 37.79E 14
¶602744820
ISC V 04 03 12 05.2–2.8 15.3N–.10 42.1E–.10 10 15 1-4
DHMR V 04 03 12 06.8–3.1 15.14N 42.28E 17–43 3.8L ¶601124418
ARO V 04 03 12 09.0 15N–26 42E–95 15–99 3.3L
ISC Event type ke.
ISC V 04 15 45 42.3–.89 15.13N–.06 42.29E–.07 10 3.8b,3.6s 22 1-88
DHMR V 04 15 45 39.1–1.6 15.08N 42.28E 2–22 4.3L,3.6s ¶17202769
ISCJB V 04 15 45 40.2–.66 15.13N–.04 42.14E–.05 10 3.7b,3.6s
IDC V 04 15 45 40.0–1.2 15.01N 42.05E 0 4.0,3.9
ISC Event type ke.
DHMR Error ellipse: s-maj=10.7km s-min=32.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=5.8km az=143.0.
IDC Error ellipse: s-maj=32.8km s-min=16.0km az=76.0.
ISC V 04 20 45 26.4–1.7 12.06N–.06 43.89E–.06 10–14 20 1-4
DHMR V 04 20 45 25.8–1.9 12.02N 43.93E 9–13 4.2L ¶601124419
ARO V 04 20 45 29.9 12N–3.0 44E–3.0 5–5 3.6L
ISC Event type ke.
SGS V 07 23 34 28.9 25.44N 37.63E 13
¶602745036
ISC V 09 02 15 34.8–1.2 12.06N–.04 43.89E–.04 12–11 32 1-4
ISCJB V 09 02 15 34.4–1.1 11.98N–.06 43.94E–.06 2–10 ¶601124520
DHMR V 09 02 15 34.8–2.4 12.05N 43.90E 15–12 4.0L
ARO V 09 02 15 38.3 12N–5.0 44E–4.0 11–10 3.4L
ISC Event type ke.
ISCJB Event type ke.
ISC V 12 13 22 41.2–.90 12.06N–.06 44.45E–.06 10 3.7b,3.3s 24 1-81
IDC V 12 13 22 39.9–8.7 11.65N 44.74E 0 3.8,3.8b ¶17203480
DHMR V 12 13 22 39.1–2.3 12.01N 44.54E 9–19 4.7L,3.8b
ISCJB V 12 13 22 40.3–.74 11.99N–.05 44.52E–.06 10 3.9b,3.3s
ARO V 12 13 22 40.9 12N–87 45E–14 8–99 4.6L,3.3s
ISC Event type ke.
ISCJB Event type ke.
DHMR V 13 10 12 43.0–1.9 12.05N 44.53E 7–9 4.5L
¶601876039
DHMR Error ellipse: s-maj=10.2km s-min=8.2km az=-1.0.
DHMR V 14 23 26 47.0–1.6 12.10N 43.89E 10–11 3.6L
¶601876042
DHMR Error ellipse: s-maj=9.1km s-min=6.6km az=-1.0.
DHMR V 15 02 47 18.2–1.9 12.00N 44.59E 8–11 4.3L
¶601876044
DHMR Error ellipse: s-maj=11.2km s-min=8.6km az=-1.0.
DHMR V 15 04 26 30.5–1.5 12.18N 44.50E 2–7 4.0L
¶601876048
DHMR Error ellipse: s-maj=9.3km s-min=5.6km az=-1.0.
DHMR V 15 04 36 00.6–1.0 12.15N 44.48E 3–5 3.6L
¶601876049
DHMR Error ellipse: s-maj=6.5km s-min=4.3km az=-1.0.
ISC V 15 05 24 44.7–.73 12.07N–.05 44.47E–.06 10 3.9b,3.5s 31 1-94
DHMR V 15 05 24 38.9–1.4 11.96N 44.47E 5–6 4.8L,3.5s ¶16681499
ISCJB V 15 05 24 42.9–.59 11.98N–.04 44.49E–.05 10 3.9b,3.5s
IDC V 15 05 24 43.0–1.2 11.93N 44.41E 0 4.0,3.9
NEIC V 15 05 24 44.6–.71 11.96N 44.35E 10 4.0b,3.9
ISC Event type se.
DHMR Error ellipse: s-maj=7.0km s-min=6.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=5.5km az=26.4.
IDC Error ellipse: s-maj=31.5km s-min=15.5km az=160.0.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=10.3km az=153.0.

DHMR V 15 05 31 39.8–.97 12.09N 44.49E 3–4 3.6L
¶601876050
DHMR Error ellipse: s-maj=6.9km s-min=4.1km az=-1.0.
DHMR V 15 07 44 17.9–.83 12.11N 44.46E 10–8 3.8L
¶601876053
DHMR Error ellipse: s-maj=6.3km s-min=3.7km az=-1.0.
DHMR V 15 08 31 56.8–1.8 12.03N 44.47E 9–16 4.4L
¶601876054
DHMR Error ellipse: s-maj=12.4km s-min=7.6km az=-1.0.
DHMR V 15 08 34 48.4–1.1 12.11N 44.44E 8–8 3.8L
¶601876055
DHMR Error ellipse: s-maj=8.2km s-min=5.1km az=-1.0.
ISC V 19 03 16 35.2–1.3 12.12N–.08 44.07E–.07 10 3.5b,2.9s 17 1-48
DHMR V 19 03 16 30.5–1.7 12.01N 43.94E 9–12 4.4L,2.9s ¶17203935
IDC V 19 03 16 32.0–3.5 11.66N 44.05E 0 3.6,3.5b
ISCJB V 19 03 16 33.1–1.1 12.02N–.07 44.03E–.07 10 3.5b,3.0s
ISC Event type ke.
ISCJB Event type ke.
DHMR V 24 14 45 37.8–1.6 12.08N 43.94E 10–15 3.7L
¶601876069
DHMR Error ellipse: s-maj=10.7km s-min=7.5km az=-1.0.
SGS V 25 01 21 24.6 25.26N 37.78E 6
¶602746180
SGS V 25 21 13 26.5 25.20N 37.80E 17
¶602746206
SGS V 25 21 13 30.6 25.20N 37.80E 3
¶603789059
DHMR V 31 01 20 56.8–2.2 12.08N 43.94E 9–20 3.6L
¶601876079
DHMR Error ellipse: s-maj=14.2km s-min=9.9km az=-1.0.
SGS V 31 19 09 26.8 25.26N 37.79E 8
¶602746554
SGS V 31 23 32 57.1 25.25N 37.78E 9
¶602746563
DHMR VI 01 03 00 56.6–1.1 14.78N 42.11E 2–14 3.7L
CSEM VI 01 03 00 56.6 14.78N 42.11E 2 3.7L ¶601876080
DHMR Error ellipse: s-maj=4.0km s-min=11.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 01 09 26 20.8–2.0 14.77N–.05 42.27E–.06 3–13 4.1b 31 2-62
DHMR VI 01 09 26 16.9–1.4 14.80N 42.10E 2–13 4.3L ¶17204878
CSEM VI 01 09 26 16.9 14.80N 42.10E 2 4.3L
IDC VI 01 09 26 20.4–1.0 14.72N 42.22E 0 3.9,3.8
ISC Event type ke.
DHMR Error ellipse: s-maj=5.0km s-min=10.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC Error ellipse: s-maj=27.9km s-min=17.0km az=86.0.
ISC VI 01 16 22 38.4–1.6 14.90N–.05 42.13E–.07 10 3.9b 25 2-62
ARO VI 01 16 22 29.2 16N–14 42E–64 15–99 3.9L ¶17204906
DHMR VI 01 16 22 37.5–1.8 14.93N 42.10E 2–21 4.0L
CSEM VI 01 16 22 37.5 14.93N 42.10E 2 4.0L
ISCJB VI 01 16 22 39.4–.93 14.84N–.06 41.99E–.06 10 3.7b
IDC VI 01 16 22 41.9–15 14.57N 42.21E 0 3.8,3.7
SGS VI 01 16 23 06.9 16.70N 42.37E 11 3.8,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=7.7km s-min=32.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=6.7km az=36.7.
IDC Error ellipse: s-maj=346.1km s-min=48.6km az=11.0.
ISC VI 01 17 17 44.5–1.2 14.83N–.05 42.09E–.08 10 4.0b 24 2-62
ARO VI 01 17 17 31.7 16N–23 42E–100 15–99 3.9L ¶17204911
CSEM VI 01 17 17 40.9 14.81N 42.10E 4 4.1L
DHMR VI 01 17 17 40.9–.90 14.81N 42.10E 5–15 4.1L
ISCJB VI 01 17 17 42.2–.86 14.82N–.05 41.97E–.06 10 3.9b
IDC VI 01 17 17 43.7–3.8 14.76N 42.07E 0 3.8,3.8
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR Error ellipse: s-maj=3.6km s-min=13.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=6.3km az=17.7.
IDC Error ellipse: s-maj=106.7km s-min=17.1km az=89.0.
ISC VI 02 09 14 02.0–2.1 14.83N–.06 42.16E–.09 10 20 2-3
ARO VI 02 09 13 51.1 16N–13 42E–50 15–99 3.5L ¶601124736
CSEM VI 02 09 13 58.8 14.91N 42.05E 2 3.7L
DHMR VI 02 09 13 58.8–1.4 14.91N 42.05E 2–19 3.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR Error ellipse: s-maj=6.9km s-min=29.2km az=-1.0.
ISC VI 02 23 21 14.9–.70 12.04N–.06 43.98E–.06 4 4.0b,3.3s 39 1-94
DHMR VI 02 23 21 11.8–1.3 12.06N 43.97E 9–14 4.4L,3.3s ¶16713148
ISCJB VI 02 23 21 13.0–.59 12.00N–.04 44.00E–.05 4 4.1b,3.2s
IDC VI 02 23 21 13.8–1.4 11.94N 43.98E 0 4.0,3.8b
CSEM VI 02 23 21 14.7–.45 12.11N 43.98E 2 4.2b,3.8b
NEIC VI 02 23 21 15.9–.72 12.03N 43.89E 10 4.2b,3.8b
ISC Event type ke.
DHMR Error ellipse: s-maj=12.5km s-min=6.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.8km az=28.9.
IDC Error ellipse: s-maj=40.8km s-min=11.1km az=154.0.
CSEM Event type ke. Error ellipse: s-maj=16.4km s-min=10.7km az=130.0.
NEIC Event type se. Error ellipse: s-maj=20.9km s-min=11.9km az=146.0.
ISC VI 02 23 35 01.1–1.4 12.0N–.10 44.16E–.08 4 3.6b 15 1-63
DHMR VI 02 23 34 55.6–1.2 11.85N 44.01E 17–13 4.1L ¶17205043
IDC VI 02 23 34 57.3–10 11.49N 44.00E 0 3.7,3.6b
ISC Event type ke.
DHMR Error ellipse: s-maj=11.1km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=221.6km s-min=42.8km az=17.0.
DHMR VI 02 23 39 57.7–1.6 12.08N 44.08E 5–19 3.8L
CSEM VI 02 23 39 57.7 12.08N 44.08E 5 3.8L ¶601876082
DHMR Error ellipse: s-maj=15.6km s-min=7.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR VI 02 23 43 04.6–1.8 12.05N 44.01E 10–22 3.9L
CSEM VI 02 23 43 04.6 12.05N 44.01E 9 3.9L ¶601876083
DHMR Error ellipse: s-maj=17.6km s-min=8.4km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR VI 02 23 47 16.9–1.5 12.05N 44.10E 11–19 3.6L
CSEM VI 02 23 47 16.9 12.05N 44.10E 10 3.6L ¶601876084
DHMR Error ellipse: s-maj=16.2km s-min=7.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC VI 02 23 51 09.1–6.9 12.00N 44.40E 0 3.9,3.8
¶17205047
IDC Error ellipse: s-maj=143.2km s-min=41.9km az=35.0.
DHMR VI 03 00 08 29.6–.82 12.03N 43.93E 13–7 4.2L
CSEM VI 03 00 08 29.6 12.03N 43.93E 12 4.2L ¶601876087
DHMR Error ellipse: s-maj=6.8km s-min=4.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR VI 03 00 21 31.9–1.3 12.08N 43.94E 12–13 4.1L
CSEM VI 03 00 21 31.9 12.08N 43.94E 12 4.1L ¶601876089
DHMR Error ellipse: s-maj=12.0km s-min=7.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
SGS VI 05 04 53 31.7 25.20N 37.80E 19
¶602752143
IDC VI 12 16 52 07.4–9.5 14.85N 42.55E 0 4.3L,3.9
¶17205845
IDC Error ellipse: s-maj=401.3km s-min=31.3km az=99.0.
SGS VI 20 02 15 38.7 25.25N 37.79E 8
¶602752619
DHMR VI 26 10 55 48.1–1.2 13.93N 44.07E 23–4 3.8L
CSEM VI 26 10 55 48.1 13.93N 44.07E 23 3.8L ¶601876111
DHMR Error ellipse: s-maj=5.1km s-min=4.8km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.

(558) Ethiopia.

DHMR I 01 00 37 53.2–1.1 11.93N 43.88E 12–14 3.7L

¶601874918

DHMR Error ellipse: s-maj=10.4km s-min=5.1km az=-1.0.
DHMR I 03 11 28 37.5–1.8 12.00N 43.82E 13–22 3.9L

¶601874940

DHMR Error ellipse: s-maj=14.7km s-min=7.8km az=-1.0.
ISC I 10 03 44 07.2–.00 11.9N–.10 44.0E–.10 4 3.8b,3.4s 14 1-78
ISCJB I 10 03 44 05.4–.79 11.9N–.10 44.0E–.10 4 3.7b,3.5s ¶17189815
IDC I 10 03 44 06.4–1.5 11.82N 44.01E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=9.6km az=140.7.
IDC Error ellipse: s-maj=34.8km s-min=10.6km az=154.0.
DHMR I 13 00 16 49.3–1.4 11.91N 43.98E 15–18 4.0L

¶601875538

DHMR Error ellipse: s-maj=14.2km s-min=6.5km az=-1.0.
DHMR I 16 01 28 44.7–1.9 11.97N 43.99E 16–23 4.2L

¶601875551

DHMR Error ellipse: s-maj=18.0km s-min=8.1km az=-1.0.
DHMR I 16 02 24 16.5–.97 11.74N 43.95E 12–19 3.5L

¶601875556

DHMR Error ellipse: s-maj=13.3km s-min=9.3km az=-1.0.
ISC I 16 03 09 04.5–.00 12.0N–.10 43.97E–.10 4 3.8b 12 1-63
DHMR I 16 03 09 01.7–1.9 12.09N 43.95E 10–23 4.3L ¶17190291
ISCJB I 16 03 09 02.4–.70 12.02N–.06 44.01E–.05 4 3.7b
IDC I 16 03 09 03.3–1.5 11.77N 44.03E 0 3.6,3.6
ISC Event type ke.
DHMR Error ellipse: s-maj=18.4km s-min=7.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.0km az=137.0.
IDC Error ellipse: s-maj=51.2km s-min=15.9km az=161.0.
DHMR I 16 07 09 34.9–1.1 12.00N 43.98E 12–18 3.7L

¶601875568

DHMR Error ellipse: s-maj=13.5km s-min=5.0km az=-1.0.
DHMR I 18 16 16 09.8–1.2 11.98N 43.99E 8–14 4.3L

¶601875577

DHMR Error ellipse: s-maj=11.4km s-min=5.4km az=-1.0.
ISC I 18 17 23 58.4–.93 11.98N–.06 43.95E–.06 10 3.6b 19 1-63
DHMR I 18 17 23 58.1–1.8 12.05N 43.97E 15–16 3.9L ¶17190495
ISCJB I 18 17 23 59.4–.72 11.99N–.06 44.01E–.05 10 3.5b
IDC I 18 17 23 59.6–1.5 11.89N 43.96E 0 3.5,3.4b
ISC Event type ke.
DHMR Error ellipse: s-maj=14.4km s-min=9.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=5.2km az=137.3.
IDC Error ellipse: s-maj=63.7km s-min=15.9km az=156.0.
DHMR I 19 03 00 49.0–1.1 11.99N 43.82E 10–16 3.5L

¶601875601

DHMR Error ellipse: s-maj=13.2km s-min=5.9km az=-1.0.
DHMR I 19 03 08 50.3–.90 11.94N 43.93E 17–12 3.6L

¶601875602

DHMR Error ellipse: s-maj=8.8km s-min=4.0km az=-1.0.
DHMR I 19 06 29 15.6–1.5 11.99N 43.90E 13–117 3.6L

¶601875603

DHMR Error ellipse: s-maj=57.9km s-min=30.0km az=-1.0.
ISC I 30 02 28 42.8–.76 12.00N–.04 43.97E–.04 9–4 4.8b,4.4s 521 1-128
BJI I 30 02 28 39.8 12.05N 43.81E 10 5.3b,4.9s ¶15981233
DHMR I 30 02 28 40.2–2.0 12.04N 44.03E 11–20 5.2L,4.9s
ARO I 30 02 28 41.4 12N–7.0 44E–7.0 4–11 4.7L,4.9s
IDC I 30 02 28 41.1–.58 11.92N 43.98E 0 4.5b,4.5
ISCJB I 30 02 28 41.2–.19 11.94N–.02 44.00E–.02 10 4.7b,4.4s
MOS I 30 02 28 42.2–.93 12.00N 43.98E 14 5.1b,4.4s
CSEM I 30 02 28 43.6–.15 12.03N 44.04E 10 4.9b,4.4s
NEIC I 30 02 28 43.1–.26 11.99N 44.03E 10 5.0b,4.4s
GCMT I 30 02 28 44.3–.20 12.05N 44.25E 12 5.0W,4.4s
OMAN I 30 02 28 45.6–17 12.12N 44.12E 12–2 5.0W,4.4s
ISC Event type ke.
DHMR Error ellipse: s-maj=17.2km s-min=8.6km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.6km az=142.0.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.6km az=148.3.
MOS Error ellipse: s-maj=8.6km s-min=4.3km az=93.9.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.1km az=159.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=5.4km az=135.0. Felt at Ta'izz, Yemen.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=35s. Moment Tensor Solution. s27,c35; s81,c135; Duration: 1±3 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.13±.11 $M_{\theta\theta}$3.47±.08; $M_{\phi\phi}$0.65±.11; $M_{r\theta}$-1.26±.27; $M_{\theta\phi}$-1.26±.09; $M_{\phi r}$-0.89±.38; Best double couple: NP1:ϕ_s96.00000°,δ53.00000°,λ-109.00000°. NP2:ϕ_s305.00000°,δ41.00000°,λ-67.00000°. Principal axes: T 4.0470,Plg6.0000°,Azm199.0000°; N 0.5120,Plg15.0000°,Azm107.0000°; P -4.5630,Plg74.0000°,Azm311.0000° $M_0$4.30500×10^{16}
OMAN Error ellipse: s-maj=5.5km s-min=1.1km az=308.0.
DHMR I 30 03 23 28.9–2.2 11.90N 43.98E 4–29 3.8L

¶601875673

DHMR Error ellipse: s-maj=27.0km s-min=12.7km az=-1.0.
DHMR I 30 03 24 37.4–1.4 11.98N 43.57E 10–15 4.3L

¶601875674

DHMR Error ellipse: s-maj=13.1km s-min=8.1km az=-1.0.
DHMR I 30 04 35 48.4–1.6 11.91N 43.95E 2–23 3.5L

¶601875683

DHMR Error ellipse: s-maj=36.6km s-min=12.6km az=-1.0.
DHMR I 30 05 28 46.8–.79 11.99N 43.98E 5–15 3.8L

¶601875690

DHMR Error ellipse: s-maj=11.8km s-min=4.3km az=-1.0.
ISC I 30 06 28 48.8–.72 11.99N–.06 43.86E–.06 10 3.9b,3.4s 30 1-64
DHMR I 30 06 28 45.3–1.7 11.93N 43.91E 16–26 4.4L,3.4s ¶17191292
ISCJB I 30 06 28 47.9–.57 11.93N–.06 43.97E–.05 10 3.8b,3.5s
IDC I 30 06 28 48.1–1.4 11.80N 43.88E 0 4.0,3.9
ARO I 30 06 28 49.5 12N–9.0 44E–7.0 8–19 3.9L,3.9
ISC Event type ke.
ISCJB Event type ke.
DHMR I 30 07 35 23.2–1.9 11.98N 43.95E 14–18 3.7L

¶601875700

DHMR Error ellipse: s-maj=16.0km s-min=9.9km az=-1.0.
DHMR I 31 00 04 32.0–1.6 11.91N 43.76E 8–20 3.8L

¶601875708

DHMR Error ellipse: s-maj=14.7km s-min=7.4km az=-1.0.
DHMR I 31 06 02 30.8–1.8 11.96N 43.95E 13–145 3.7L

¶601875713

DHMR Error ellipse: s-maj=72.2km s-min=35.6km az=-1.0.
DHMR II 03 02 29 40.8–1.9 11.99N 43.87E 12–122 3.5L

¶601875735

DHMR Error ellipse: s-maj=68.8km s-min=36.8km az=-1.0.
ISC II 03 02 42 32.7–.85 11.89N–.09 44.00E–.07 10 3.7s,3.6b 19 1-78
DHMR II 03 02 42 22.4–1.3 11.86N 43.87E 2–8 4.5L,3.6b ¶17191570
IDC II 03 02 42 31.2–1.5 11.71N 44.06E 0 3.9,3.8
ISCJB II 03 02 42 32.1–.77 11.98N–.06 44.06E–.06 10 3.8s,3.6b
ISC Event type ke.
ISCJB Event type ke.
DHMR II 03 03 08 29.6–1.5 11.96N 43.95E 13–122 3.8L

¶601875740

DHMR Error ellipse: s-maj=61.5km s-min=29.4km az=-1.0.
ISC II 03 03 23 15.6–.87 11.96N–.06 43.97E–.05 10 4.0b,3.6s 21 1-78
IDC II 03 03 23 13.9–1.8 11.32N 44.25E 0 4.0,3.9b ¶17191571
DHMR II 03 03 23 15.7–2.1 12.08N 43.98E 12–13 4.3L,3.9b
ISCJB II 03 03 23 16.6–.73 11.97N–.06 44.04E–.05 10 3.9b,3.6s
ISC Event type ke.
ISCJB Event type ke.
DHMR II 08 06 33 08.5–2.0 11.98N 43.88E 11–34 3.9L

¶601875766

DHMR Error ellipse: s-maj=25.2km s-min=9.3km az=-1.0.
ARO II 09 06 18 07.6 10N–7.0 43E–25 15–98 4.7L

¶601123799

ISC II 11 09 33 12.3–1.0 11.55N–.05 42.65E–.04 7–8 3.9b 28 0-64
DHMR II 11 09 33 05.3–2.3 11.70N 42.03E 10–195 4.4L ¶17192065
ISCJB II 11 09 33 11.9–.69 11.52N–.06 42.65E–.05 15–4 3.8s,3.8b
IDC II 11 09 33 11.9–3.4 11.54N 42.65E 0 3.8,3.8b
ARO II 11 09 33 12.4 11.5N–.50 42.7E–.60 3–2 4.4L,3.8b
ISC Event type ke.
ISCJB Event type ke.
ARO II 12 04 49 07.0 11.5N–.50 42.7E–.50 2–2 3.7L

¶601123817

ISC II 14 16 29 01.4–1.1 11.52N–.06 42.70E–.04 8–10 11 0-5
ARO II 14 16 29 01.1 11.5N–.40 42.7E–.60 2–0 4.0L ¶601123835
ISC Event type ke.
DHMR II 21 03 21 04.8–1.7 11.93N 44.00E 9–29 3.6L

¶601875832

DHMR Error ellipse: s-maj=22.6km s-min=9.3km az=-1.0.
ARO III 08 20 46 34.4 11.6N–.30 42.7E–.50 3–1 3.6L

¶601123968

ARO III 08 20 57 11.4 11.6N–.30 42.7E–.40 3–1 3.6L

¶601123969

DHMR III 13 15 12 53.5–.50 11.94N 43.98E 7–8 4.0L

¶601875880

DHMR Error ellipse: s-maj=7.0km s-min=3.2km az=-1.0.
DHMR III 15 03 55 24.7–1.5 11.96N 43.90E 6–24 4.2L

¶601875916

DHMR Error ellipse: s-maj=19.3km s-min=8.4km az=-1.0.
DHMR III 15 04 02 25.7–1.4 11.95N 43.71E 14–23 3.7L

¶601875917

DHMR Error ellipse: s-maj=21.9km s-min=9.5km az=-1.0.
ISC III 15 20 40 33.3–2.7 11.97N–.07 44.00E–.07 5–26 14 1-6
DHMR III 15 20 40 32.7–1.4 11.90N 44.05E 14–11 4.1L ¶601875918
ISC Event type ke.
DHMR Error ellipse: s-maj=11.0km s-min=7.9km az=-1.0.
DHMR III 15 20 53 33.0–1.7 11.98N 43.89E 12–116 3.8L

¶601875920

DHMR Error ellipse: s-maj=65.1km s-min=34.6km az=-1.0.
DHMR III 16 22 25 50.7–.46 11.85N 43.63E 6–8 3.6L

¶601875923

DHMR Error ellipse: s-maj=5.2km s-min=5.9km az=-1.0.
ISC III 19 20 08 11.8–.65 6.68N–.04 38.54E–.05 17–3 4.9b,4.5s 381 2-130
BJI III 19 20 08 05.9 6.11N 38.31E 15 5.2b,5.0s ¶16339535
MOS III 19 20 08 09.4–.91 6.73N 38.55E 13 5.1b,4.3s
IDC III 19 20 08 09.3–.46 6.71N 38.53E 0 4.6,4.6b
GCMT III 19 20 08 10.4–.20 6.81N 38.62E 12 5.0W,4.6b
NEIC III 19 20 08 10.4–.20 6.66N 38.52E 10 5.0b,4.6b
ISCJB III 19 20 08 12.1–1.4 6.69N–.03 38.46E–.03 32–9 4.8b,4.4s
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c66; s107,c177;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.19±.08 $M_{\theta\theta}$1.15±.07; $M_{\phi\phi}$3.04±.09; $M_{r\theta}$0.68±.23; $M_{\theta\phi}$1.69±.06; $M_{\phi r}$-1.11±.25; Best double couple: NP1:ϕ_s17.00000°,δ51.00000°,λ-108.00000°. NP2:ϕ_s223.00000°,δ42.00000°,λ-70.00000°. Principal axes: T 4.0790,Plg4.0000°,Azm119.0000°; N 0.4360,Plg14.0000°,Azm28.0000°; P -4.5150,Plg76.0000°,Azm227.0000° $M_0$4.29700×10^{16}
NEIC Event type fe. Felt at Addis Ababa, Awassa and Dila.
ISCJB Event type fe.
ISC III 20 16 50 01.0–1.3 6.66N–.08 38.4E–.20 10 3.6b 9 2-60
ISCJB III 20 16 49 59.7–.81 6.55N–.05 38.6E–.30 10 3.6b,3.4s ¶17197499
IDC III 20 16 50 02.8–2.2 6.63N 39.02E 0 3.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.1km s-min=6.5km az=5.3.
IDC Error ellipse: s-maj=90.4km s-min=24.2km az=117.0.
ISC III 23 09 42 01.1–1.5 11.86N–.06 43.37E–.06 20–4 18 0-4
ISCJB III 23 09 42 01.7–.74 11.85N–.05 43.32E–.05 12–5 ¶601124084
DHMR III 23 09 42 01.5–1.3 12.02N 43.39E 8–14 3.8L
ARO III 23 09 42 02.3 12N–2.0 43E–1.0 6–3 3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC III 25 05 21 34.2–.89 15.33N–.04 39.78E–.04 15–5 4.8b,4.0s 500 3-125
DSN III 25 05 21 16.6–2.9 11.68N 40.78E 10 4.8b,4.0s ¶16359656
BJI III 25 05 21 26.2 15.05N 38.97E 10 5.1b,4.8b
MOS III 25 05 21 31.9–.91 15.33N 39.72E 10 5.1b,4.8b
IDC III 25 05 21 31.8–.47 15.29N 39.71E 0 4.7,4.7b
CSEM III 25 05 21 33.6–.12 15.29N 39.74E 10 4.8b,4.7b
NEIC III 25 05 21 33.4–.20 15.29N 39.74E 10 4.8b,4.7b
ISCJB III 25 05 21 34.8–.66 15.28N–.04 39.76E–.03 33–6 4.8b,4.0s
DHMR III 25 05 21 38.6–1.4 15.97N 40.49E 5–999 5.0b,4.0s
SGS III 25 05 21 41.2 15.58N 40.05E 17 5.0b,4.0s
ISC Event type fe.
DSN Error ellipse: s-maj=101.2km s-min=23.0km az=153.0.
MOS Error ellipse: s-maj=8.6km s-min=3.9km az=99.2.
IDC Error ellipse: s-maj=13.2km s-min=11.1km az=101.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=4.2km az=21.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=4.3km az=65.0. Felt at Asmara. Also felt at Adwa, Ethiopia.
ISCJB Event type fe. Error ellipse: s-maj=6.3km s-min=4.3km az=12.2.
DHMR Error ellipse: s-maj=487.4km s-min=943.2km az=-1.0.
DHMR III 25 16 26 56.9–1.0 11.93N 43.39E 10–13 3.7L

¶601875942

DHMR Error ellipse: s-maj=9.8km s-min=7.4km az=-1.0.
DHMR III 30 01 12 20.8–1.8 11.99N 43.89E 10–22 3.8L

¶601875952

DHMR Error ellipse: s-maj=17.7km s-min=8.4km az=-1.0.
ISC III 31 02 24 46.8–.68 11.97N–.05 43.91E–.05 10 4.0b 52 1-68
DHMR III 31 02 24 43.1–1.4 12.01N 43.91E 12–8 5.0L ¶16475887
ISCJB III 31 02 24 45.8–.50 11.96N–.05 43.96E–.04 10 4.0b
IDC III 31 02 24 46.0–1.2 11.88N 43.81E 0 4.1,4.0
NEIC III 31 02 24 47.9–.88 12.01N 43.78E 10 4.2b,4.0
ISC Event type se.
DHMR Error ellipse: s-maj=7.7km s-min=5.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=4.8km az=143.1.
IDC Error ellipse: s-maj=28.0km s-min=13.7km az=155.0.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=11.4km az=156.0.
ISC III 31 18 33 39.1–.38 13.27N–.05 41.86E–.04 10 4.5b,3.7s 293 2-126
DHMR III 31 18 33 32.5–1.2 13.23N 41.64E 5–11 4.7L,3.7s ¶16403116
BJI III 31 18 33 35.2 12.67N 42.04E 5 4.9b,4.5b
MOS III 31 18 33 36.9–1.1 13.12N 41.82E 10 4.7b,4.5b
IDC III 31 18 33 37.3–.72 13.22N 41.78E 0 4.4,4.4b
ISCJB III 31 18 33 37.7–.35 13.23N–.05 41.89E–.03 10 4.4b,3.7s
NEIC III 31 18 33 38.0–3.1 13.17N 41.83E 6–20 4.5b,3.7s
CSEM III 31 18 33 39.7–.44 13.27N 41.93E 10 4.5b,3.7s
DSN III 31 18 33 40.8–2.5 12.87N 42.55E 3 4.2b,3.7s
ISC Event type ke.
DHMR Error ellipse: s-maj=7.2km s-min=9.9km az=-1.0.
MOS Error ellipse: s-maj=11.0km s-min=5.1km az=93.9.
IDC Error ellipse: s-maj=16.1km s-min=13.0km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=4.3km az=3.9.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.6km az=170.0.
CSEM Event type ke. Error ellipse: s-maj=18.1km s-min=7.8km az=6.0.
DSN Error ellipse: s-maj=112.9km s-min=13.5km az=147.0.
DHMR IV 06 12 08 11.1–1.0 11.96N 43.88E 14–99 3.6L

¶601875966

DHMR Error ellipse: s-maj=48.9km s-min=26.7km az=-1.0.
DHMR IV 08 16 44 02.4–1.2 11.92N 43.93E 11–114 3.9L

¶601875979

DHMR Error ellipse: s-maj=65.7km s-min=32.7km az=-1.0.
ISC IV 11 08 12 12.2–.78 15.10N–.06 39.5E–.10 10 3.9b 11 5-52
IDC IV 11 08 12 11.2–1.2 15.23N 39.70E 0 3.9b,3.9 ¶17200539
ISC Event type ke.
IDC Error ellipse: s-maj=28.2km s-min=17.4km az=52.0.
ISC IV 19 10 32 08.5–.98 11.97N–.09 43.97E–.08 4 3.7b,3.0s 17 1-53
DHMR IV 19 10 32 04.7–.88 11.95N 44.04E 10–12 4.1L,3.0s ¶17201492
ISCJB IV 19 10 32 06.2–.83 11.91N–.06 44.03E–.07 4 3.6b,3.1s
IDC IV 19 10 32 07.1–1.6 11.79N 43.99E 0 3.9,3.7b
ISC Event type ke.

DHMR Error ellipse: s-maj=9.2km s-min=5.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=6.0km az=39.4.
IDC Error ellipse: s-maj=43.9km s-min=16.5km az=159.0.
DHMR IV 19 21 34 42.3–1.2 11.96N 43.92E 10–15 4.0L
¶601876010

DHMR Error ellipse: s-maj=12.0km s-min=6.0km az=-1.0.
ISC IV 21 19 07 11.7–.86 11.63N–.05 42.87E–.04 12–6 3.9b,2.9s 26 0-64
DHMR IV 21 19 07 07.9–1.2 11.67N 42.85E 13–15 4.4L,2.9s **¶17201733**
ISCJB IV 21 19 07 11.0–.46 11.61N–.06 42.86E–.06 20–4 3.7b,3.1s
IDC IV 21 19 07 10.5–22 11.62N 43.01E 0 3.8,3.7b
ARO IV 21 19 07 12.1 11.6N–.20 42.9E–.20 4–0 4.6L,3.7b
ISC Event type ke.
ISCJB Event type ke.
DHMR IV 22 23 27 21.6–.90 11.92N 43.89E 9–14 4.3L
¶601876019

DHMR Error ellipse: s-maj=10.7km s-min=6.3km az=-1.0.
ISC IV 26 01 21 16.1–.91 11.63N–.06 42.91E–.06 14–7 17 0-5
ISCJB IV 26 01 21 16.0–.59 11.64N–.07 42.87E–.07 18–8 **¶601124354**
DHMR IV 26 01 21 15.8–.32 11.89N 42.96E 6–4 3.9L
ARO IV 26 01 21 17.1 11.6N–.20 42.9E–.20 4–0 3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 01 34 52.8–1.1 11.64N–.04 42.86E–.05 10 15 0-4
DHMR IV 26 01 34 44.4–1.4 11.97N 42.05E 5–22 4.1L **¶601124355**
ISCJB IV 26 01 34 53.4–.55 11.62N–.04 42.87E–.06 10 4.1L
ARO IV 26 01 34 53.7 11.6N–.20 42.9E–.20 5–0 3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC V 10 14 24 04.8–1.8 11.99N–.06 43.98E–.06 6–15 22 1-4
ISCJB V 10 14 24 05.5–1.1 12.02N–.06 43.91E–.06 3–9 **¶601124525**
DHMR V 10 14 24 07.1–1.3 12.11N 43.92E 20–15 4.4L
ARO V 10 14 24 09.0 12N–5.0 44E–3.0 11–8 3.8L
ISC Event type ke.
ISCJB Event type ke.
DHMR V 15 11 11 17.0–.92 11.93N 43.69E 14–16 3.7L
¶601876056

DHMR Error ellipse: s-maj=10.1km s-min=9.7km az=-1.0.
ARO V 22 14 37 15.9 10N–15 43E–51 15–99 4.0L
¶601124658
ISC V 22 18 21 51.3–1.1 11.78N–.06 43.12E–.06 24–10 14 0-3
DHMR V 22 18 21 46.6–.34 11.75N 43.02E 5–7 3.4L **¶601124659**
ISCJB V 22 18 21 51.9–.63 11.74N–.08 43.12E–.08 22–9 3.4L
ARO V 22 18 21 53.1 11.8N–.40 43.1E–.50 6–1 3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC V 28 11 11 16.7–1.5 13.33N–.06 42.15E–.09 10 3.9b 13 2-79
DHMR V 28 11 11 09.5–1.3 13.10N 41.74E 30–12 3.9L **¶17204622**
IDC V 28 11 11 10.8–10 13.11N 41.22E 0 3.9L,3.8
ISC Event type ke.
DHMR Error ellipse: s-maj=13.4km s-min=8.8km az=-1.0.
IDC Error ellipse: s-maj=247.4km s-min=25.9km az=66.0.
ISC V 30 22 34 02.0–1.0 11.63N–.06 42.82E–.07 15–7 16 0-4
DHMR V 30 22 33 58.0–1.3 11.76N 42.66E 12–14 3.6L **¶601124705**
ISCJB V 30 22 34 01.8–.72 11.62N–.08 42.82E–.08 18–8 3.6L
ARO V 30 22 34 03.0 11.6N–.20 42.8E–.30 7–1 3.3L
ISC Event type ke.
ISCJB Event type ke.
ISC V 30 23 56 58.6–.96 11.66N–.05 42.83E–.05 13–8 20 0-5
DHMR V 30 23 56 53.9–1.3 11.73N 42.68E 6–12 3.9L **¶601124706**
ISCJB V 30 23 56 58.0–.97 11.68N–.07 42.76E–.08 12–8 3.9L
ARO V 30 23 56 59.8 11.6N–.30 42.8E–.40 7–2 3.4L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 02 00 57 11.4–2.6 14.97N–.08 42.0E–.10 10 23 2-4
ARO VI 02 00 57 01.1 16N–44 42E–100 15–99 3.7L **¶601124735**
DHMR VI 02 00 57 11.4–.73 14.79N 42.12E 14–9 4.0L
CSEM VI 02 00 57 11.4 14.79N 42.12E 13 4.0L
ISC Event type ke.
DHMR Error ellipse: s-maj=2.9km s-min=7.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR VI 03 04 34 45.8–1.8 11.99N 43.90E 11–22 3.9L
CSEM VI 03 04 34 45.8 11.99N 43.90E 11 3.9L **¶601876092**
DHMR Error ellipse: s-maj=17.8km s-min=8.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR VI 03 15 11 47.6–1.0 11.97N 43.69E 3–12 3.5L
¶601876093

DHMR Error ellipse: s-maj=7.3km s-min=11.3km az=-1.0.
ISC VI 12 15 37 05.7–.77 13.45N–.03 41.78E–.03 8–4 5.0b,4.2s 686 1-129
BJI VI 12 15 37 01.7 13.16N 41.63E 6 5.0b,5.0s **¶16591664**
ARO VI 12 15 37 02.3 13N–11 42E–9.0 3–15 4.7L,5.0s
DHMR VI 12 15 37 03.7–1.4 13.58N 41.90E 13–12 4.8L,5.0s
IDC VI 12 15 37 04.3–.44 13.39N 41.69E 0 4.7,4.6
NEIC VI 12 15 37 04.1–2.2 13.42N 41.69E 2–14 5.1b,4.6
GCMT VI 12 15 37 04.1–.20 13.49N 41.82E 12 5.1W,4.6
MOS VI 12 15 37 04.0–.84 13.38N 41.65E 10 5.2b,4.3s
CSEM VI 12 15 37 04.5–.10 13.44N 41.74E 2 5.0b,4.3s
STR VI 12 15 37 05.6–.00 13.31N 41.70E 5.1b,4.3s
ISCJB VI 12 15 37 05.2–.15 13.43N–.02 41.74E–.02 17 4.9b,4.3s
DSN VI 12 15 37 06.3–.80 13.36N 41.91E 11 5.1b,4.3s
ISC Event type ke.
DHMR Error ellipse: s-maj=6.8km s-min=9.6km az=-1.0.
IDC Error ellipse: s-maj=12.1km s-min=10.5km az=104.0.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=218.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c38; s87,c148; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.57±.13 $M_{\theta\theta}$2.54±.11; $M_{\phi\phi}$2.03±.13; $M_{r\theta}$-1.80±.46; $M_{\theta\phi}$-2.57±.10; $M_{\phi r}$-0.72±.43; Best double couple: NP1:ϕ_s114.00000° ,δ53.00000°,λ-114.00000°. NP2:ϕ_s330.00000°,δ43.00000°,λ-61.00000°. Principal axes: T 4.9490,Plg5.0000°,Azm220.0000°; N 0.3050,Plg19.0000°,Azm128.0000° ; P -5.2530,Plg70.0000°,Azm326.0000° $M_0$5.10100×10^{16}
MOS Error ellipse: s-maj=7.5km s-min=3.9km az=90.7.
CSEM Event type ke. Error ellipse: s-maj=4.7km s-min=3.3km az=18.0.
STR Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.1km s-min=2.4km az=29.7.
DSN Error ellipse: s-maj=28.4km s-min=9.3km az=122.0.
ISC VI 12 15 38 52.3–.65 13.40N–.08 41.77E–.09 10 4.3b 27 2-63
ISCJB VI 12 15 38 50.8–.51 13.46N–.07 41.74E–.10 10 4.2b **¶16684518**
IDC VI 12 15 38 50.6–.97 13.38N 41.73E 0 4.6L,4.3
NEIC VI 12 15 38 52.0–.66 13.34N 41.64E 10 4.0b,4.3
CSEM VI 12 15 38 52.2–.37 13.38N 41.65E 10 4.0b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.6km az=152.7.
IDC Error ellipse: s-maj=22.0km s-min=18.6km az=37.0.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=12.0km az=201.0.
CSEM Event type ke. Error ellipse: s-maj=16.8km s-min=13.0km az=44.0.
ISC VI 12 16 09 29.9–1.6 13.33N–.04 41.83E–.05 3–9 4.3b,4.0s 148 1-126
ARO VI 12 16 09 27.6 14N–5.0 42E–4.0 4–6 4.3L,4.0s **¶16593426**
IDC VI 12 16 09 29.5–.87 13.29N 41.77E 0 4.2,4.1
NEIC VI 12 16 09 30.9–.38 13.33N 41.76E 10 4.5b,4.1
CSEM VI 12 16 09 31.0–.18 13.32N 41.80E 10 4.5b,4.1
DHMR VI 12 16 09 32.0–1.2 13.20N 42.14E 14–11 4.3L,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=19.8km s-min=16.9km az=21.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=7.1km az=191.0.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=4.9km az=10.0.
DHMR Error ellipse: s-maj=6.2km s-min=8.6km az=-1.0.
ISC VI 12 16 12 03.5–1.4 13.31N–.03 41.84E–.04 14–8 4.6b,4.1s 307 1-126
ARO VI 12 16 12 01.1 13N–7.0 42E–6.0 3–10 5.1L,4.1s **¶16591666**
MOS VI 12 16 12 01.3–.86 13.32N 41.73E 10 4.9b,4.1s
IDC VI 12 16 12 01.5–.51 13.28N 41.81E 0 4.5,4.4
ISCJB VI 12 16 12 01.6–1.3 13.35N–.03 41.78E–.03 11–9 4.5b,4.1s
DHMR VI 12 16 12 02.2–1.1 13.14N 42.05E 7–9 4.8L,4.1s
CSEM VI 12 16 12 02.8–.16 13.32N 41.82E 10 4.5b,4.1s
NEIC VI 12 16 12 03.2–3.0 13.32N 41.78E 12–19 4.7b,4.1s
DSN VI 12 16 12 06.4–1.0 12.99N 42.68E 10 4.7b,4.1s
ISC Event type ke.
MOS Error ellipse: s-maj=9.7km s-min=4.9km az=84.1.
IDC Error ellipse: s-maj=13.6km s-min=11.3km az=105.0.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.2km az=24.7.
DHMR Error ellipse: s-maj=5.9km s-min=7.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=6.7km s-min=5.2km az=7.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=5.4km az=150.0.
DSN Error ellipse: s-maj=61.4km s-min=5.0km az=122.0.
IDC VI 12 16 20 06.0–21 12.98N 40.52E 0 4.2L,3.9
¶17205833

IDC Error ellipse: s-maj=462.2km s-min=36.1km az=60.0.
ISC VI 12 16 22 11.6–.74 13.34N–.05 41.85E–.06 10 3.9b 40 2-63
ISCJB VI 12 16 22 09.1–.66 13.23N–.07 41.74E–.04 10 3.9b **¶16684520**
IDC VI 12 16 22 09.7–1.2 13.29N 41.70E 0 4.1L,4.0
DHMR VI 12 16 22 09.0–.82 13.27N 41.92E 11–8 4.0L,4.0
CSEM VI 12 16 22 10.0–.34 13.27N 41.80E 2 4.2b,4.0
NEIC VI 12 16 22 11.2–.57 13.28N 41.72E 10 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=6.1km az=2.4.
IDC Error ellipse: s-maj=25.3km s-min=21.0km az=24.0.
DHMR Error ellipse: s-maj=4.8km s-min=7.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=8.1km az=10.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=9.4km az=41.0.
ISC VI 12 16 24 43.4–.70 13.37N–.03 41.74E–.04 6–4 4.7b,4.3s 348 1-126
BJI VI 12 16 24 39.6 13.03N 41.61E 4 4.9b,4.8b **¶16591668**
MOS VI 12 16 24 42.8–1.0 13.42N 41.68E 10 5.0b,4.3s
ARO VI 12 16 24 42.2 13N–5.0 42E–4.0 4–7 4.9L,4.3s
ISCJB VI 12 16 24 42.7–.20 13.38N–.03 41.74E–.03 11 4.6b,4.4s
CSEM VI 12 16 24 42.9–.15 13.39N 41.74E 2 4.6b,4.4s
DHMR VI 12 16 24 43.4–.87 13.23N 42.02E 11–8 4.8L,4.4s
IDC VI 12 16 24 43.1–.45 13.37N 41.70E 0 4.6,4.5
NEIC VI 12 16 24 44.1–.25 13.40N 41.73E 10 4.8b,4.5
DSN VI 12 16 24 47.8–.95 12.50N 43.20E 10 4.8b,4.5
SGS VI 12 16 25 22.8 16.15N 42.26E 26 4.8b,4.5
ISC Event type ke.
MOS Error ellipse: s-maj=10.2km s-min=5.0km az=85.2.
ISCJB Event type ke. Error ellipse: s-maj=4.2km s-min=3.2km az=37.6.
CSEM Event type ke. Error ellipse: s-maj=6.3km s-min=4.9km az=20.0.
DHMR Error ellipse: s-maj=4.5km s-min=6.5km az=-1.0.
IDC Error ellipse: s-maj=13.1km s-min=10.3km az=92.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=5.4km az=54.0.
DSN Error ellipse: s-maj=69.3km s-min=4.6km az=122.0.
ISC VI 12 16 27 49.9–.69 13.33N–.05 41.76E–.07 10 4.1b 45 1-63
IDC VI 12 16 27 48.4–1.1 13.31N 41.70E 0 4.0,4.0L **¶16684522**
ARO VI 12 16 27 48.0 13N–9.0 42E–9.0 2–9 4.1L,4.0L
ISCJB VI 12 16 27 48.4–.45 13.36N–.04 41.70E–.05 10 4.0b,3.3s
CSEM VI 12 16 27 49.0–.38 13.15N 41.63E 10 4.0L,3.3s
NEIC VI 12 16 27 49.9–.58 13.31N 41.65E 10 4.8b,3.3s
DHMR VI 12 16 27 54.5–1.4 13.26N 42.20E 16–15 4.0L,3.3s
ISC Event type ke.
IDC Error ellipse: s-maj=23.5km s-min=18.6km az=44.0.
ISCJB Event type ke. Error ellipse: s-maj=7.0km s-min=5.4km az=168.3.
CSEM Event type ke. Error ellipse: s-maj=14.5km s-min=12.2km az=146.0.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=10.7km az=101.0.
DHMR Error ellipse: s-maj=13.6km s-min=10.9km az=-1.0.
IDC VI 12 16 31 20.0–9.2 12.90N 40.84E 0 3.8L,3.6
¶17205834

IDC Error ellipse: s-maj=197.6km s-min=29.7km az=58.0.
ISC VI 12 16 33 11.1–.61 13.34N–.06 41.77E–.06 10 4.1b 69 2-77
ISCJB VI 12 16 33 09.6–.46 13.38N–.06 41.75E–.04 10 4.0b **¶16593428**
IDC VI 12 16 33 09.3–1.1 13.28N 41.73E 0 4.6L,4.1
NEIC VI 12 16 33 10.7–.39 13.29N 41.76E 10 4.3b,4.1
CSEM VI 12 16 33 10.0–.19 13.37N 41.79E 2 4.2L,4.1
DHMR VI 12 16 33 11.2–1.2 13.49N 41.94E 17–15 4.2L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.2km az=178.9.
IDC Error ellipse: s-maj=23.4km s-min=17.6km az=21.0.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.5km az=195.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.8km az=7.0.
DHMR Error ellipse: s-maj=11.2km s-min=11.1km az=-1.0.
IDC VI 12 16 38 02.5–11 13.19N 41.32E 0 3.8,3.8
¶17205835

IDC Error ellipse: s-maj=264.3km s-min=26.9km az=69.0.
ISC VI 12 16 41 12.5–1.2 13.26N–.07 41.77E–.10 10 3.6b 15 2-63
DHMR VI 12 16 41 09.7–1.6 13.31N 41.82E 9–21 4.1L **¶17205836**
IDC VI 12 16 41 12.3–1.9 13.36N 42.21E 0 3.7s,3.7
ISC Event type ke.
DHMR Error ellipse: s-maj=21.7km s-min=16.3km az=-1.0.
IDC Error ellipse: s-maj=52.2km s-min=26.9km az=80.0.
IDC VI 12 16 44 27.9–11 13.16N 41.24E 0 3.7,3.7
¶16730172

IDC Error ellipse: s-maj=260.8km s-min=28.0km az=67.0.
ISC VI 12 16 44 41.5–.76 13.45N–.05 41.93E–.06 10 4.0b 28 2-63
DHMR VI 12 16 44 31.8–1.2 13.10N 41.76E 7–11 4.1L **¶17205837**
CSEM VI 12 16 44 39.9–.19 13.38N 41.66E 2 4.7b
IDC VI 12 16 44 39.4–1.1 13.34N 41.65E 0 4.1L,4.0
ISCJB VI 12 16 44 40.2–.64 13.49N–.06 41.87E–.05 10 4.0b,4.0
NEIC VI 12 16 44 40.9–.57 13.34N 41.66E 10 4.7b,4.0
ISC Event type ke.
DHMR Error ellipse: s-maj=7.3km s-min=9.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=6.2km az=67.0.
IDC Error ellipse: s-maj=25.0km s-min=19.1km az=49.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.8km az=35.1.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.2km az=57.0.
ISC VI 12 16 47 47.5–1.2 13.35N–.07 41.9E–.10 10 3.8b 14 2-53
ISCJB VI 12 16 47 45.4–.96 13.31N–.08 41.78E–.07 10 3.6b **¶17205839**
IDC VI 12 16 47 45.3–2.0 13.31N 41.77E 0 4.0L,3.8
DHMR VI 12 16 47 48.8–.91 13.38N 42.08E 14–12 3.6L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=9.9km az=172.3.
IDC Error ellipse: s-maj=48.5km s-min=22.2km az=70.0.
DHMR Error ellipse: s-maj=8.7km s-min=8.5km az=-1.0.
IDC VI 12 16 48 31.9–20 14.74N 40.60E 0 4.7L,3.7
¶17205844

IDC Error ellipse: s-maj=532.0km s-min=38.7km az=79.0.
ISC VI 12 16 51 00.5–.71 13.36N–.06 41.84E–.06 10 3.7b 35 2-63
DHMR VI 12 16 50 55.8–1.6 13.14N 41.91E 2–758 4.3L **¶16684524**
ISCJB VI 12 16 50 58.7–.68 13.37N–.09 41.79E–.05 10 3.8b,3.5s
CSEM VI 12 16 50 59.2–.38 13.36N 41.84E 2 4.3b,3.5s
IDC VI 12 16 50 59.1–1.0 13.36N 41.66E 0 4.7L,4.0
NEIC VI 12 16 51 00.4–.60 13.35N 41.76E 10 4.3b,4.0
ISC Event type ke.
DHMR Error ellipse: s-maj=70.2km s-min=753.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=6.5km az=17.5.
CSEM Event type ke. Error ellipse: s-maj=15.3km s-min=9.0km az=21.0.
IDC Error ellipse: s-maj=23.4km s-min=17.2km az=39.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=10.1km az=217.0.
ISC VI 12 16 53 52.4–1.0 13.17N–.10 41.7E–.10 10 3.8b 11 2-55
IDC VI 12 16 53 51.8–1.3 13.31N 41.73E 0 4.0L,3.8 **¶17205846**
ISC Event type ke.
IDC Error ellipse: s-maj=27.2km s-min=21.1km az=62.0.
ISC VI 12 16 56 20.1–.87 13.23N–.06 41.80E–.07 10 3.9b,3.6s 25 2-88
ISCJB VI 12 16 56 18.4–.75 13.27N–.09 41.76E–.05 10 3.8b,3.6s **¶17205847**
IDC VI 12 16 56 18.3–1.3 13.25N 41.73E 0 4.0L,3.9
DHMR VI 12 16 56 22.7–.77 13.27N 42.12E 18–8 3.9L,3.9
CSEM VI 12 16 56 22.7 13.27N 42.12E 17 3.9L,3.9
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=7.4km az=171.4.
IDC Error ellipse: s-maj=28.0km s-min=23.4km az=27.0.
DHMR Error ellipse: s-maj=6.2km s-min=5.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
ISC VI 12 16 58 36.7–.86 13.28N–.10 41.8E–.10 10 3.8b 16 2-63
ISCJB VI 12 16 58 35.6–.68 13.41N–.07 41.8E–.10 10 3.8b **¶17205848**
IDC VI 12 16 58 35.3–1.1 13.30N 41.80E 0 4.3L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.9km s-min=8.1km az=157.8.
IDC Error ellipse: s-maj=23.3km s-min=18.4km az=53.0.
ISC VI 12 17 00 00.1–1.0 13.21N–.10 41.7E–.10 10 3.8b 25 2-56
IDC VI 12 16 59 59.9–1.4 13.40N 41.77E 0 4.0L,3.9 **¶16730184**
NEIC VI 12 17 00 00.6–1.5 13.31N 41.70E 10–2 4.2b,3.9L
ISC Event type se.
IDC Error ellipse: s-maj=31.6km s-min=19.3km az=50.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=10.2km az=207.0.
IDC VI 12 17 04 06.4–2.6 13.19N 41.39E 0 4.0L,3.8
¶17205849
IDC Error ellipse: s-maj=64.5km s-min=23.7km az=60.0.
IDC VI 12 17 06 04.1–2.1 13.17N 41.72E 0 3.7,3.7
¶17205850
IDC Error ellipse: s-maj=60.3km s-min=26.4km az=61.0.
ISC VI 12 17 09 06.5–1.2 13.04N–.09 41.1E–.10 10 4.2b 11 2-64
ISCJB VI 12 17 09 06.1–1.2 13.20N–.08 41.1E–.10 10 4.1b **¶16730188**
NEIC VI 12 17 09 06.3–1.1 12.97N 41.02E 10 4.5b
IDC VI 12 17 09 06.1–10 13.05N 41.08E 0 4.3L,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.7km s-min=10.5km az=153.4.
NEIC Event type se. Error ellipse: s-maj=24.5km s-min=17.4km az=107.0.
IDC Error ellipse: s-maj=226.3km s-min=26.1km az=63.0.
ISC VI 12 17 10 35.1–.66 12.96N–.07 41.63E–.10 10 4.0b 22 2-126
ISCJB VI 12 17 10 33.0–.61 12.93N–.08 41.69E–.09 10 3.9b **¶16730189**
IDC VI 12 17 10 33.7–1.1 12.96N 41.73E 0 4.0,3.9
NEIC VI 12 17 10 34.8–.49 12.91N 41.74E 10 4.0b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=12.0km az=158.5.
IDC Error ellipse: s-maj=24.7km s-min=18.9km az=26.0.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=10.1km az=80.0.
ISC VI 12 17 11 58.4–2.4 13.1N–.30 41.0E–.30 10 4.0b 8 2-64
ISCJB VI 12 17 11 57.7–2.0 13.2N–.20 41.1E–.30 10 3.9b **¶17205852**
IDC VI 12 17 11 57.1–2.7 13.09N 41.05E 0 4.0L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=49.8km s-min=10.2km az=147.5.
IDC Error ellipse: s-maj=63.2km s-min=22.8km az=50.0.
IDC VI 12 17 14 21.1–2.3 12.88N 41.58E 0 3.7,3.6
¶17205853
IDC Error ellipse: s-maj=63.7km s-min=25.2km az=53.0.
IDC VI 12 17 14 33.8–13 12.44N 41.68E 0 4.0,3.8
¶17205856
IDC Error ellipse: s-maj=278.4km s-min=45.4km az=12.0.
ISC VI 12 17 18 10.5–.72 13.33N–.03 41.81E–.04 14–4 4.8b,4.2s 499 1-126
ARO VI 12 17 18 06.6 13N–12 42E–11 4–19 5.0L,4.2s **¶16591671**
BJI VI 12 17 18 06.2 12.94N 41.73E 10 4.9b,4.9s
MOS VI 12 17 18 08.2–1.0 13.36N 41.75E 10 5.1b,4.2s
IDC VI 12 17 18 08.3–.53 13.27N 41.77E 0 4.6,4.6b
DHMR VI 12 17 18 08.9–1.6 13.33N 41.93E 30–10 4.8L,4.6b
ISCJB VI 12 17 18 09.2–.18 13.32N–.02 41.80E–.02 18 4.7b,4.2s
NEIC VI 12 17 18 09.6–.31 13.34N 41.77E 10 4.8b,4.2s
CSEM VI 12 17 18 09.7–.14 13.34N 41.83E 10 4.8b,4.2s
DSN VI 12 17 18 10.2–.48 13.29N 41.95E 10 5.5b,4.2s
STR VI 12 17 18 16.6–.00 13.87N 40.90E 4.9b,4.2s
ISC Event type ke.
MOS Error ellipse: s-maj=9.3km s-min=4.3km az=93.3.
IDC Error ellipse: s-maj=12.7km s-min=11.5km az=37.0.
DHMR Error ellipse: s-maj=8.2km s-min=9.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=18.7.
NEIC Event type se. Error ellipse: s-maj=6.8km s-min=6.1km az=204.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=3.6km az=7.0.
DSN Error ellipse: s-maj=15.3km s-min=6.2km az=122.0.
STR Event type ke.
IDC VI 12 17 19 37.8–5.6 13.36N 41.81E 0 4.1,4.0
¶17205857
IDC Error ellipse: s-maj=142.6km s-min=22.6km az=77.0.
ISC VI 12 17 24 06.3–.93 13.43N–.08 41.71E–.08 10 3.7b 16 2-63
DHMR VI 12 17 23 58.3–.86 13.28N 41.10E 71–999 4.4L **¶16730199**
ISCJB VI 12 17 24 04.3–.76 13.38N–.07 41.66E–.07 10 3.8b
IDC VI 12 17 24 04.7–1.3 13.34N 41.71E 0 4.4L,3.9
ISC Event type ke.
DHMR Error ellipse: s-maj=43.7km s-min=79.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.8km s-min=9.3km az=17.5.
IDC Error ellipse: s-maj=26.4km s-min=24.9km az=17.0.
ISC VI 12 17 24 39.2–.87 13.14N–.08 41.7E–.10 10 4.0b 18 2-63
ISCJB VI 12 17 24 37.6–.82 13.2N–.10 41.8E–.10 10 3.9b **¶17205858**
IDC VI 12 17 24 37.6–1.3 13.11N 41.79E 0 4.1,4.0
NEIC VI 12 17 24 38.9–.64 13.10N 41.78E 10 4.0b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=13.2km az=40.5.
IDC Error ellipse: s-maj=25.8km s-min=22.4km az=33.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=10.6km az=221.0.
ISC VI 12 17 32 53.7–1.6 13.3N–.10 42.0E–.30 10 3.8b 10 2-63
ISCJB VI 12 17 32 52.6–1.2 13.4N–.10 42.1E–.20 10 3.7b **¶17205861**
IDC VI 12 17 32 52.3–2.0 13.29N 42.04E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.6km s-min=14.4km az=164.3.
IDC Error ellipse: s-maj=49.1km s-min=23.7km az=65.0.
ISC VI 12 17 34 24.8–.67 13.26N–.08 41.7E–.10 10 4.0b 21 2-88
ISCJB VI 12 17 34 23.4–.54 13.36N–.06 41.70E–.09 10 4.0b,3.6s **¶17205862**
IDC VI 12 17 34 23.3–.79 13.28N 41.73E 0 4.1,4.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.7km s-min=7.7km az=157.3.
IDC Error ellipse: s-maj=18.0km s-min=15.9km az=75.0.
ISC VI 12 17 35 55.8–1.3 13.3N–.10 41.6E–.20 10 4.0b,3.6s 14 2-89
IDC VI 12 17 35 54.6–1.6 13.30N 41.67E 0 4.1,4.1L **¶17205863**
ISCJB VI 12 17 35 55.3–.93 13.45N–.08 41.7E–.20 10 3.9b,3.5s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 17 37 39.4–.71 13.27N–.10 41.6E–.10 10 4.1b 24 2-126
ISCJB VI 12 17 37 38.3–.61 13.39N–.07 41.6E–.10 10 4.1b,3.2s **¶17205864**
IDC VI 12 17 37 38.1–.89 13.30N 41.56E 0 4.2,4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=7.9km az=149.6.
IDC Error ellipse: s-maj=21.0km s-min=16.6km az=26.0.
ISC VI 12 17 39 05.2–.91 13.28N–.10 41.7E–.10 10 3.9b 11 2-63
IDC VI 12 17 39 03.9–1.2 13.29N 41.74E 0 4.1,4.0 **¶17205865**
ISCJB VI 12 17 39 04.1–.78 13.42N–.08 41.8E–.10 10 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 17 40 30.1–.90 13.2N–.10 41.6E–.20 10 3.8b 11 2-63
IDC VI 12 17 40 28.5–1.2 13.23N 41.60E 0 4.0,3.9 **¶17205866**
ISCJB VI 12 17 40 29.2–.78 13.41N–.09 41.6E–.10 10 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC VI 12 17 43 27.0–2.8 13.27N 41.93E 0 3.7,3.7
¶17205867
IDC Error ellipse: s-maj=76.8km s-min=27.5km az=74.0.
ISC VI 12 17 46 09.0–1.6 13.2N–.10 41.6E–.20 10 3.9b 9 2-63
IDC VI 12 17 46 07.7–1.8 13.19N 41.58E 0 4.0,4.0L **¶17205868**
ISCJB VI 12 17 46 08.2–1.2 13.3N–.10 41.6E–.20 10 3.8b,4.0L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 17 47 19.7–.47 13.22N–.06 41.66E–.07 10 4.4s,4.4b 204 2-126
IDC VI 12 17 47 18.4–.88 13.19N 41.77E 0 4.4,4.2 **¶16593432**
MOS VI 12 17 47 18.1–.94 13.28N 41.72E 10 4.8b,4.2
ISCJB VI 12 17 47 19.2–.33 13.41N–.05 41.75E–.05 10 4.6s,4.4b
NEIC VI 12 17 47 20.3–.50 13.33N 41.69E 10 4.7b,4.4b
CSEM VI 12 17 47 20.9–.26 13.39N 41.71E 10 4.4b,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=14.7km az=28.0.
MOS Error ellipse: s-maj=13.5km s-min=5.6km az=98.1.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.3km az=44.8.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=9.8km az=215.0.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=8.5km az=19.0.
IDC VI 12 17 47 49.9–2.3 13.33N 41.63E 0 4.1,4.0
¶17205871
IDC Error ellipse: s-maj=84.5km s-min=29.5km az=165.0.
ISC VI 12 17 48 38.9–.77 13.32N–.10 41.7E–.10 10 3.9b 16 2-63
ISCJB VI 12 17 48 37.7–.60 13.45N–.07 41.8E–.10 10 4.0b **¶17205874**
IDC VI 12 17 48 37.5–1.0 13.34N 41.73E 0 4.2,4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=7.8km az=151.4.
IDC Error ellipse: s-maj=24.7km s-min=17.0km az=38.0.
ISC VI 12 17 50 28.6–1.6 13.3N–.10 41.5E–.20 10 4.2b,3.9s 10 2-63
ISCJB VI 12 17 50 27.9–1.1 13.43N–.10 41.6E–.20 10 3.9b,3.7s **¶17205875**
IDC VI 12 17 50 27.5–1.9 13.30N 41.56E 0 4.2L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.7km s-min=8.8km az=155.8.
IDC Error ellipse: s-maj=46.1km s-min=19.3km az=54.0.
IDC VI 12 17 53 00.8–11 12.98N 41.38E 0 3.8,3.7
¶17205876
IDC Error ellipse: s-maj=274.8km s-min=32.7km az=69.0.
IDC VI 12 17 53 39.5–23 13.56N 40.90E 0 4.0,4.0
¶17205879
IDC Error ellipse: s-maj=536.1km s-min=256.6km az=72.0.
IDC VI 12 17 57 23.6–24 13.62N 41.53E 0 3.7,3.7
¶17205880
IDC Error ellipse: s-maj=555.3km s-min=292.1km az=72.0.
ISC VI 12 18 01 21.2–.54 13.17N–.05 41.84E–.05 10 4.2b,3.6s 100 2-79
DHMR VI 12 18 01 18.8–1.4 12.95N 41.79E 28–8 4.9L,3.6s **¶16593433**
ISCJB VI 12 18 01 19.6–.50 13.14N–.07 41.78E–.03 10 4.2b,3.7s
IDC VI 12 18 01 20.5–.78 13.17N 41.71E 0 4.3L,4.2
CSEM VI 12 18 01 21.0–.30 13.08N 41.84E 10 4.4b,4.2
NEIC VI 12 18 01 21.7–.54 13.20N 41.82E 10 4.4b,4.2
DSN VI 12 18 01 21.2–4.2 13.70N 41.32E 10 4.4b,4.2
ISC Event type ke.
DHMR Error ellipse: s-maj=7.8km s-min=8.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=4.9km az=178.5.
IDC Error ellipse: s-maj=17.2km s-min=16.4km az=72.0.
CSEM Event type ke. Error ellipse: s-maj=12.4km s-min=6.8km az=179.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=9.7km az=189.0.
DSN Error ellipse: s-maj=135.7km s-min=21.0km az=158.0.
IDC VI 12 18 04 22.8–4.7 13.03N 41.50E 0 3.9,3.8
¶17205881
IDC Error ellipse: s-maj=105.8km s-min=32.9km az=25.0.
IDC VI 12 18 05 03.5–5.2 13.37N 41.67E 0 3.9,3.8
¶17205884
IDC Error ellipse: s-maj=114.6km s-min=41.6km az=23.0.
ISC VI 12 18 05 57.4–.79 13.2N–.10 41.6E–.10 10 3.8b 17 2-66
ISCJB VI 12 18 05 56.6–.63 13.39N–.08 41.6E–.10 10 4.0s,3.8b **¶17205887**
IDC VI 12 18 05 56.1–1.2 13.23N 41.62E 0 4.1,4.1s
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.4km s-min=8.1km az=150.3.
IDC Error ellipse: s-maj=26.3km s-min=19.2km az=25.0.
IDC VI 12 18 07 03.5–10 13.18N 41.26E 0 3.9,3.9
¶17205888
IDC Error ellipse: s-maj=258.0km s-min=26.0km az=68.0.
IDC VI 12 18 09 06.0–4.5 13.07N 40.87E 0 4.0L,3.8
¶17205889
IDC Error ellipse: s-maj=100.8km s-min=24.0km az=54.0.
ISC VI 12 18 10 26.8–.74 13.26N–.06 41.85E–.07 10 4.0b 26 2-93
ISCJB VI 12 18 10 24.6–.69 13.24N–.08 41.67E–.05 10 3.9b,3.5s **¶17205890**
IDC VI 12 18 10 25.1–1.1 13.28N 41.69E 0 4.3L,4.0
DHMR VI 12 18 10 25.7–.68 13.14N 42.07E 2–17 4.0L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=7.4km az=170.5.
IDC Error ellipse: s-maj=23.4km s-min=17.9km az=41.0.
DHMR Error ellipse: s-maj=16.9km s-min=5.4km az=-1.0.
ISC VI 12 18 14 50.5–2.8 13.2N–.50 41.8E–.20 10 3.8b 7 39-63
ISCJB VI 12 18 14 48.4–2.6 13.2N–.50 41.8E–.20 10 3.8b **¶17205891**
IDC VI 12 18 14 48.9–3.0 13.19N 41.79E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=68.8km s-min=23.3km az=161.0.
IDC Error ellipse: s-maj=81.3km s-min=27.7km az=162.0.
IDC VI 12 18 15 39.3–6.8 13.42N 41.85E 0 3.7,3.6
¶17205894
IDC Error ellipse: s-maj=154.5km s-min=34.0km az=32.0.
ISC VI 12 18 22 35.9–1.9 13.2N–.20 41.6E–.30 10 4.2b 8 2-63
ISCJB VI 12 18 22 34.9–1.6 13.4N–.10 41.6E–.30 10 4.0b **¶17205896**
IDC VI 12 18 22 34.6–2.2 13.29N 41.58E 0 4.2L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=46.3km s-min=9.5km az=157.9.
IDC Error ellipse: s-maj=56.9km s-min=22.4km az=64.0.
ISC VI 12 18 23 32.0–2.0 13.5N–.50 41.6E–.20 10 3.9b 6 39-63
ISCJB VI 12 18 23 30.1–1.9 13.6N–.40 41.6E–.20 10 3.9b **¶17205899**
IDC VI 12 18 23 30.6–2.0 13.57N 41.56E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=65.1km s-min=24.2km az=162.8.
IDC Error ellipse: s-maj=68.8km s-min=26.1km az=164.0.
IDC VI 12 18 25 06.3–11 13.08N 40.92E 0 4.0L,3.8
¶17205900
IDC Error ellipse: s-maj=240.6km s-min=28.0km az=62.0.
ISC VI 12 18 26 13.2–.88 13.4N–.10 41.6E–.20 10 3.9b 12 2-79
ISCJB VI 12 18 26 12.0–.75 13.48N–.08 41.6E–.10 10 3.8b **¶17205901**
IDC VI 12 18 26 11.9–1.1 13.40N 41.63E 0 4.2L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.3km s-min=8.7km az=155.1.
IDC Error ellipse: s-maj=26.6km s-min=20.4km az=52.0.
IDC VI 12 18 26 46.6–4.8 13.15N 41.65E 0 3.9,3.8
¶17205904
IDC Error ellipse: s-maj=106.8km s-min=37.9km az=24.0.
IDC VI 12 18 27 59.3–24 13.32N 41.23E 0 3.7,3.7
¶17205905
IDC Error ellipse: s-maj=600.2km s-min=33.5km az=73.0.
IDC VI 12 18 28 34.9–3.6 12.25N 41.20E 0 3.8,3.7
¶17205908
IDC Error ellipse: s-maj=80.0km s-min=28.5km az=39.0.
ISC VI 12 18 29 48.1–.81 13.31N–.10 41.7E–.10 10 3.8b 14 2-63
IDC VI 12 18 29 46.8–1.1 13.31N 41.71E 0 4.0,3.9 **¶17205909**
ISCJB VI 12 18 29 47.1–.68 13.43N–.07 41.7E–.10 10 3.8b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 18 31 02.6–1.6 13.3N–.20 41.6E–.30 10 3.9b 10 2-63
ISCJB VI 12 18 31 02.0–1.3 13.5N–.10 41.7E–.20 10 3.8b **¶17205910**
IDC VI 12 18 31 01.2–2.0 13.31N 41.64E 0 4.1L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.2km s-min=9.0km az=159.1.
IDC Error ellipse: s-maj=48.9km s-min=20.6km az=61.0.
IDC VI 12 18 34 30.5–3.1 12.33N 41.48E 0 3.9,3.8
¶17205911
IDC Error ellipse: s-maj=70.5km s-min=24.7km az=45.0.
IDC VI 12 18 35 37.5–23 12.38N 40.50E 0 3.6,3.6
¶17205912
IDC Error ellipse: s-maj=562.0km s-min=219.4km az=73.0.

IDC VI 12 18 35 56.1–23 13.20N 41.06E 0 3.6,3.6
¶17205915
IDC Error ellipse: s-maj=562.4km s-min=214.0km az=71.0.
ISC VI 12 18 37 20.6–.98 13.3N–.10 41.6E–.20 10 4.2b 9 2-63
ISCJB VI 12 18 37 19.4–.86 13.45N–.09 41.6E–.10 10 4.0b **¶17205916**
IDC VI 12 18 37 19.4–1.2 13.35N 41.59E 0 4.1,4.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.0km s-min=9.6km az=153.7.
IDC Error ellipse: s-maj=26.4km s-min=21.5km az=44.0.
IDC VI 12 18 38 07.8–23 13.40N 40.55E 0 3.8,3.8b
¶17205919
IDC Error ellipse: s-maj=570.8km s-min=221.0km az=73.0.
ISC VI 12 18 38 32.4–.67 13.33N–.09 41.8E–.10 10 3.8b 17 2-63
ISCJB VI 12 18 38 31.8–.54 13.53N–.07 41.7E–.10 10 3.9b,3.5s **¶17205922**
IDC VI 12 18 38 31.8–.92 13.45N 41.74E 0 4.6L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=7.9km az=153.3.
IDC Error ellipse: s-maj=20.8km s-min=17.6km az=32.0.
ISC VI 12 18 40 04.8–.80 13.3N–.10 41.7E–.10 10 4.0b 15 2-80
ISCJB VI 12 18 40 03.5–.66 13.40N–.08 41.7E–.10 10 4.0b **¶17205923**
IDC VI 12 18 40 03.2–1.0 13.30N 41.71E 0 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.0km s-min=8.4km az=152.9.
IDC Error ellipse: s-maj=23.9km s-min=18.3km az=37.0.
ISC VI 12 18 45 09.9–1.9 13.2N–.40 41.7E–.20 10 3.8b 6 39-63
ISCJB VI 12 18 45 08.0–1.8 13.2N–.40 41.8E–.20 10 3.8b **¶17205924**
IDC VI 12 18 45 08.4–2.0 13.23N 41.74E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=55.7km s-min=24.6km az=163.4.
IDC Error ellipse: s-maj=63.4km s-min=26.7km az=163.0.
ISC VI 12 18 48 51.1–.49 13.22N–.05 41.93E–.05 10 4.2b,3.9s 96 2-126
DSN VI 12 18 48 48.6–2.9 11.94N 42.97E 10 4.2b,3.9s **¶16593434**
DHMR VI 12 18 48 48.9–.76 13.05N 42.02E 14–8 4.7L,3.9s
IDC VI 12 18 48 50.0–.74 13.32N 41.79E 0 4.4,4.3
ISCJB VI 12 18 48 50.1–.37 13.34N–.05 41.81E–.03 10 4.2b,3.9s
NEIC VI 12 18 48 51.5–.48 13.35N 41.82E 10 4.0b,3.9s
CSEM VI 12 18 48 51.6–.27 13.31N 41.90E 10 4.1b,3.9s
ISC Event type ke.
DSN Error ellipse: s-maj=134.0km s-min=24.3km az=143.0.
DHMR Error ellipse: s-maj=5.0km s-min=6.2km az=-1.0.
IDC Error ellipse: s-maj=16.3km s-min=15.1km az=13.0.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.6km az=1.9.
NEIC Event type se. Error ellipse: s-maj=10.8km s-min=10.0km az=122.0.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=8.1km az=15.0.
ISC VI 12 18 53 48.4–1.0 12.9N–.10 41.92E–.06 10 4.0b 27 2-63
IDC VI 12 18 53 49.6–1.1 13.32N 41.71E 0 4.1,4.1L **¶17205926**
CSEM VI 12 18 53 51.6 13.28N 42.11E 10 4.2L,4.1L
DHMR VI 12 18 53 51.6–.95 13.28N 42.11E 10–10 4.2L,4.1L
ISC Event type ke.
IDC Error ellipse: s-maj=26.2km s-min=17.5km az=16.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR Error ellipse: s-maj=5.3km s-min=7.5km az=-1.0.
ISC VI 12 18 54 53.9–.80 13.3N–.10 41.6E–.10 10 4.1b 15 2-63
ISCJB VI 12 18 54 52.7–.64 13.46N–.08 41.6E–.10 10 3.9b **¶17205927**
IDC VI 12 18 54 52.6–1.0 13.36N 41.61E 0 4.3L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.1km s-min=8.1km az=150.7.
IDC Error ellipse: s-maj=24.6km s-min=17.8km az=38.0.
ISC VI 12 18 56 12.9–.90 13.27N–.10 41.7E–.10 10 4.0b 18 2-63
ISCJB VI 12 18 56 11.8–.71 13.39N–.07 41.7E–.10 10 4.0b **¶16730270**
IDC VI 12 18 56 11.5–1.1 13.26N 41.72E 0 4.1,4.0
NEIC VI 12 18 56 12.8–.80 13.26N 41.77E 10 4.0b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=8.0km az=158.0.
IDC Error ellipse: s-maj=23.9km s-min=18.2km az=51.0.
NEIC Event type se. Error ellipse: s-maj=19.5km s-min=13.4km az=62.0.
ISC VI 12 19 02 57.8–.90 13.30N–.07 41.82E–.08 10 3.8b 21 2-63
ISCJB VI 12 19 02 56.0–.68 13.29N–.06 41.76E–.05 10 4.2s,3.9b **¶16730273**
IDC VI 12 19 02 56.0–1.3 13.26N 41.75E 0 4.2s,4.2
DHMR VI 12 19 02 57.4–1.2 13.38N 41.98E 15–10 4.4L,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.6km az=173.1.
IDC Error ellipse: s-maj=26.1km s-min=23.7km az=32.0.
DHMR Error ellipse: s-maj=6.1km s-min=8.5km az=-1.0.
IDC VI 12 19 03 26.0–2.2 13.37N 41.84E 0 4.3L,3.9
¶17205928
IDC Error ellipse: s-maj=59.5km s-min=28.4km az=71.0.
ISC VI 12 19 03 37.2–.54 13.43N–.07 41.69E–.08 10 4.3b 90 2-126
ISCJB VI 12 19 03 36.0–.40 13.44N–.05 41.78E–.05 10 4.3b,4.2s **¶17205930**
IDC VI 12 19 03 35.3–.93 13.34N 41.70E 0 4.5,4.4
CSEM VI 12 19 03 37.5–.33 13.45N 41.74E 10 4.2b,4.4
NEIC VI 12 19 03 37.2–.45 13.43N 41.73E 10 4.2b,4.4
DSN VI 12 19 03 40.3–4.9 13.59N 42.00E 10 4.2b,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=6.6km az=138.6.
IDC Error ellipse: s-maj=22.3km s-min=14.9km az=176.0.
CSEM Event type ke. Error ellipse: s-maj=13.7km s-min=13.3km az=54.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=8.2km az=71.0.
DSN Error ellipse: s-maj=168.6km s-min=30.2km az=154.0.
ISC VI 12 19 05 59.1–2.0 13.4N–.20 41.6E–.40 10 4.0b 8 2-63
ISCJB VI 12 19 05 57.8–1.7 13.5N–.10 41.7E–.30 10 3.8b **¶17205932**
IDC VI 12 19 05 57.7–2.4 13.40N 41.65E 0 4.2L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=46.8km s-min=9.7km az=161.4.
IDC Error ellipse: s-maj=59.5km s-min=21.9km az=66.0.
ISC VI 12 19 11 49.1–1.7 13.2N–.20 41.5E–.30 10 4.0b 10 2-64
IDC VI 12 19 11 47.8–2.1 13.27N 41.46E 0 4.2L,4.0 **¶17205933**
ISCJB VI 12 19 11 48.3–1.4 13.4N–.10 41.5E–.30 10 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
IDC VI 12 19 12 46.2–6.3 13.35N 41.43E 0 3.8,3.6
¶17205936
IDC Error ellipse: s-maj=134.7km s-min=43.3km az=35.0.
ISC VI 12 19 14 09.7–.80 13.4N–.10 41.6E–.10 10 3.9b 13 2-63
ISCJB VI 12 19 14 08.5–.66 13.50N–.08 41.7E–.10 10 3.8b **¶17205937**
IDC VI 12 19 14 08.4–1.1 13.42N 41.63E 0 4.4L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=8.3km az=151.9.
IDC Error ellipse: s-maj=25.7km s-min=18.6km az=40.0.
IDC VI 12 19 14 37.0–9.6 13.26N 41.51E 0 3.9,3.9
¶17205940
IDC Error ellipse: s-maj=206.4km s-min=37.6km az=10.0.
IDC VI 12 19 18 40.7–5.5 13.27N 41.80E 0 3.8,3.6
¶17205941
IDC Error ellipse: s-maj=128.0km s-min=33.7km az=24.0.
ISC VI 12 19 19 17.0–.79 12.74N–.09 41.82E–.08 10 4.0b 22 2-127
ISCJB VI 12 19 19 15.7–.69 12.83N–.08 41.74E–.06 10 4.0b **¶17205944**
DHMR VI 12 19 19 15.1–.43 12.85N 41.99E 5–11 4.3L
IDC VI 12 19 19 16.3–1.0 12.86N 41.72E 0 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=7.3km az=158.8.
DHMR Error ellipse: s-maj=11.9km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=24.0km s-min=17.9km az=21.0.
ISC VI 12 19 21 51.0–1.1 13.29N–.04 41.91E–.04 11–6 4.9b,4.3s 548 2-126
BJI VI 12 19 21 42.7 12.55N 41.54E 4 5.0b,5.0s **¶16591773**
STR VI 12 19 21 48.0–.00 13.12N 42.40E 5.2b,5.0s
ISCJB VI 12 19 21 48.6–.86 13.26N–.04 41.83E–.02 7–5 4.8b,4.4s
IDC VI 12 19 21 49.5–.46 13.30N 41.76E 0 4.7,4.6
MOS VI 12 19 21 49.5–.91 13.31N 41.82E 10 5.2b,4.3s
DHMR VI 12 19 21 49.1–1.5 13.15N 42.01E 14–14 5.0L,4.3s
NEIC VI 12 19 21 50.8–.29 13.30N 41.80E 10 5.0b,4.3s
GCMT VI 12 19 21 50.8–.20 13.48N 41.90E 12 5.0W,4.3s
CSEM VI 12 19 21 51.1–.14 13.30N 41.87E 10 4.9b,4.3s
DSN VI 12 19 21 51.9–3.1 13.27N 42.02E 10 5.4b,4.3s
ISC Event type ke.
STR Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.5km az=3.4.
IDC Error ellipse: s-maj=13.1km s-min=10.5km az=93.0.
MOS Error ellipse: s-maj=9.3km s-min=4.0km az=96.5.
DHMR Error ellipse: s-maj=8.9km s-min=11.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.3km s-min=5.9km az=221.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c30; s75,c129; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.23±.14 $M_{\theta\theta}$2.93±.11; $M_{\phi\phi}$0.30±.13; $M_{r\theta}$-0.69±.41; $M_{\theta\phi}$-2.23±.10; $M_{\phi r}$-1.04±.47; Best double couple: NP1:ϕ_s98.00000°,δ50.00000°,λ-122.00000°. NP2:ϕ_s322.00000°,δ49.00000°,λ-58.00000°. Principal axes: T 4.2060,Plg1.0000°,Azm210.0000°; N -0.4180,Plg24.0000°,Azm119.0000°; P -3.7820,Plg66.0000°,Azm301.0000° $M_0$3.99400×10^{16}
CSEM Event type ke. Error ellipse: s-maj=5.7km s-min=3.9km az=7.0.
DSN Error ellipse: s-maj=54.5km s-min=13.3km az=178.0.
ISC VI 12 19 23 55.7–.58 13.32N–.09 41.70E–.09 10 4.2b 46 2-126
ISCJB VI 12 19 23 54.2–.57 13.35N–.08 41.74E–.08 10 4.3b **¶16720906**
CSEM VI 12 19 23 54.6–.27 13.39N 41.71E 2 4.6b
IDC VI 12 19 23 54.2–.83 13.33N 41.67E 0 4.4,4.3
NEIC VI 12 19 23 55.5–.50 13.31N 41.72E 10 4.6b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=9.5km az=33.6.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=9.5km az=39.0.
IDC Error ellipse: s-maj=20.2km s-min=16.5km az=23.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.8km az=196.0.
ISC VI 12 19 24 05.6–1.1 13.5N–.20 41.7E–.10 10 4.4b 19 19-126
ISCJB VI 12 19 24 03.9–1.1 13.5N–.20 41.69E–.10 10 4.3b **¶17205947**
IDC VI 12 19 24 04.0–1.1 13.44N 41.69E 0 4.5,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.2km s-min=13.5km az=7.7.
IDC Error ellipse: s-maj=30.2km s-min=17.7km az=7.0.
ISC VI 12 19 25 54.8–1.4 13.0N–.30 41.8E–.10 10 4.4b 9 28-79
ISCJB VI 12 19 25 52.9–1.2 13.0N–.30 41.8E–.10 10 4.3b **¶17205948**
IDC VI 12 19 25 53.3–1.4 13.00N 41.79E 0 4.4,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.6km s-min=17.0km az=168.1.
IDC Error ellipse: s-maj=45.7km s-min=19.4km az=169.0.
ISC VI 12 19 27 30.5–.00 13.4N–.10 41.7E–.20 10 3.9b 7 2-63
ISCJB VI 12 19 27 29.1–.92 13.5N–.10 41.8E–.20 10 3.8b **¶17205949**
IDC VI 12 19 27 29.1–1.2 13.41N 41.75E 0 4.0,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.0km s-min=16.9km az=151.6.
IDC Error ellipse: s-maj=29.3km s-min=24.4km az=17.0.
ISC VI 12 19 27 49.3–1.8 13.4N–.20 41.6E–.30 10 3.9b 6 2-63
ISCJB VI 12 19 27 48.3–1.6 13.5N–.20 41.7E–.30 10 3.8b **¶17205952**
IDC VI 12 19 27 48.0–2.1 13.38N 41.65E 0 4.5L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=43.6km s-min=17.6km az=159.9.
IDC Error ellipse: s-maj=53.0km s-min=27.1km az=58.0.
IDC VI 12 19 29 20.9–24 12.30N 41.23E 0 3.8,3.7
¶17205953
IDC Error ellipse: s-maj=529.6km s-min=34.9km az=55.0.
ISC VI 12 19 31 19.8–.53 13.28N–.05 41.87E–.06 10 4.2b 81 2-126
ISCJB VI 12 19 31 18.1–.47 13.23N–.06 41.86E–.03 10 4.1b **¶16720907**
IDC VI 12 19 31 18.3–.72 13.21N 41.79E 0 4.4L,4.3
DHMR VI 12 19 31 18.0–1.4 13.30N 41.95E 21–14 4.8L,4.3
NEIC VI 12 19 31 19.8–.44 13.25N 41.80E 10 4.2b,4.3
CSEM VI 12 19 31 20.0–.29 13.28N 41.87E 10 4.0b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.5km s-min=4.8km az=179.8.
IDC Error ellipse: s-maj=17.8km s-min=14.5km az=138.0.
DHMR Error ellipse: s-maj=8.6km s-min=11.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.9km az=145.0.
CSEM Event type ke. Error ellipse: s-maj=11.2km s-min=8.3km az=173.0.
IDC VI 12 19 36 05.7–1.9 12.99N 41.79E 0 3.7,3.6
¶17205954
IDC Error ellipse: s-maj=50.6km s-min=24.2km az=177.0.
IDC VI 12 19 36 52.1–5.3 13.39N 42.30E 0 3.9,3.8
¶16730298
IDC Error ellipse: s-maj=110.1km s-min=33.3km az=33.0.
ISC VI 12 19 37 43.9–.47 13.45N–.06 41.63E–.06 10 4.4s,4.4b 152 2-126
ISCJB VI 12 19 37 42.2–.31 13.46N–.04 41.64E–.04 10 4.4s,4.3b **¶16720908**
IDC VI 12 19 37 42.5–.68 13.42N 41.62E 0 4.3,4.2
CSEM VI 12 19 37 43.9–.18 13.46N 41.65E 10 4.4b,4.2
NEIC VI 12 19 37 43.9–.37 13.44N 41.67E 10 4.8b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=30.2.
IDC Error ellipse: s-maj=15.0km s-min=14.5km az=98.0.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=6.4km az=24.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=7.3km az=157.0.
ISC VI 12 19 38 03.5–.54 13.20N–.07 41.73E–.09 10 4.5b 116 2-126
ISCJB VI 12 19 38 02.9–.42 13.35N–.06 41.76E–.06 10 4.5b **¶17205955**
IDC VI 12 19 38 02.4–.76 13.23N 41.71E 0 4.6,4.5
MOS VI 12 19 38 02.6–1.2 13.21N 41.77E 15 4.7b,4.5
NEIC VI 12 19 38 03.5–.58 13.23N 41.74E 10 4.5b,4.5
CSEM VI 12 19 38 05.2–.32 13.19N 41.82E 20 4.4b,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=6.6km az=139.0.
IDC Error ellipse: s-maj=17.1km s-min=14.9km az=13.0.
MOS Error ellipse: s-maj=14.4km s-min=6.4km az=87.9.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=10.9km az=209.0.
CSEM Event type ke. Error ellipse: s-maj=13.5km s-min=10.9km az=25.0.
ISC VI 12 19 43 22.4–.94 13.2N–.10 41.6E–.20 10 4.0b 11 2-63
ISCJB VI 12 19 43 20.7–.84 13.37N–.09 41.6E–.10 10 4.0s,3.9b **¶16730300**
IDC VI 12 19 43 20.5–1.2 13.26N 41.61E 0 4.2L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=9.2km az=154.2.
IDC Error ellipse: s-maj=26.2km s-min=21.3km az=47.0.
ISC VI 12 19 44 16.6–.37 13.46N–.05 41.78E–.05 10 4.7b 347 2-126
DHMR VI 12 19 44 07.3–1.6 13.32N 41.80E 3–44 4.6L **¶17205957**
BJI VI 12 19 44 09.6 12.89N 41.22E 10 4.9b,4.8s
ISCJB VI 12 19 44 14.8–.27 13.43N–.04 41.73E–.03 10 4.6b,4.8s
IDC VI 12 19 44 15.1–.59 13.40N 41.73E 0 4.5,4.5b
MOS VI 12 19 44 15.0–.86 13.46N 41.71E 10 5.0b,4.5b
CSEM VI 12 19 44 16.7–.16 13.45N 41.74E 10 4.7b,4.5b
NEIC VI 12 19 44 16.3–.35 13.41N 41.71E 10 4.8b,4.5b
STR VI 12 19 44 31.5–.00 15.75N 41.50E 4.8b,4.5b
ISC Event type ke.
DHMR Error ellipse: s-maj=15.6km s-min=42.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.6km az=2.9.
IDC Error ellipse: s-maj=13.7km s-min=12.8km az=67.0.
MOS Error ellipse: s-maj=10.1km s-min=4.7km az=92.9.
CSEM Event type ke. Error ellipse: s-maj=6.4km s-min=5.0km az=4.0.
NEIC Event type se. Error ellipse: s-maj=7.4km s-min=6.7km az=195.0.
STR Event type ke.
IDC VI 12 19 48 13.8–22 13.26N 40.15E 0 4.0s,4.0
¶17205959
IDC Error ellipse: s-maj=532.2km s-min=257.0km az=72.0.
ISC VI 12 19 48 35.5–.93 13.3N–.10 41.6E–.20 10 3.9b 9 2-63
ISCJB VI 12 19 48 34.5–.83 13.50N–.10 41.6E–.10 10 3.9b **¶17205962**
IDC VI 12 19 48 34.3–1.2 13.38N 41.59E 0 4.2L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=9.7km az=152.0.
IDC Error ellipse: s-maj=29.7km s-min=20.7km az=48.0.
ISC VI 12 19 49 16.5–1.7 13.2N–.30 41.7E–.20 10 4.2b 13 27-63
ISCJB VI 12 19 49 14.6–1.5 13.1N–.20 41.8E–.10 10 4.1b **¶16720909**
IDC VI 12 19 49 15.0–1.8 13.15N 41.72E 0 4.2,4.1

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.4km s-min=19.6km az=179.9.
IDC Error ellipse: s-maj=37.8km s-min=22.7km az=4.0.
ISC VI 12 19 51 24.0–1.8 13.1N–.30 41.8E–.10 10 3.7b 12 27-63
ISCJB VI 12 19 51 21.9–1.6 13.0N–.20 41.8E–.10 10 3.8b **¶17205963**
IDC VI 12 19 51 22.4–1.9 13.07N 41.76E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.1km s-min=18.2km az=177.5.
IDC Error ellipse: s-maj=43.6km s-min=22.4km az=1.0.
IDC VI 12 19 53 33.0–1.9 13.47N 41.89E 0 4.0L,3.6
¶17205964
IDC Error ellipse: s-maj=55.2km s-min=28.1km az=69.0.
IDC VI 12 19 55 54.6–2.4 12.67N 42.09E 0 3.9,3.9
¶17205965
IDC Error ellipse: s-maj=60.4km s-min=26.4km az=153.0.
ISC VI 12 19 56 26.8–1.1 13.4N–.10 41.8E–.20 10 3.8b 8 2-63
ISCJB VI 12 19 56 25.4–.00 13.5N–.10 41.8E–.20 10 3.8b **¶17205968**
IDC VI 12 19 56 25.4–1.5 13.45N 41.77E 0 4.1,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.3km s-min=14.9km az=147.0.
IDC Error ellipse: s-maj=37.4km s-min=22.5km az=38.0.
IDC VI 12 19 56 43.4–1.9 13.15N 41.72E 0 4.1,4.0
¶17205971
IDC Error ellipse: s-maj=50.0km s-min=27.7km az=171.0.
ISC VI 12 19 57 43.8–.66 13.35N–.09 41.7E–.10 10 4.0b 19 2-125
ISCJB VI 12 19 57 42.5–.53 13.47N–.07 41.66E–.09 10 4.0b,3.9s **¶16730317**
IDC VI 12 19 57 42.5–.89 13.38N 41.66E 0 4.2L,4.1
NEIC VI 12 19 57 43.9–.52 13.38N 41.67E 10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=7.7km az=150.0.
IDC Error ellipse: s-maj=20.8km s-min=17.2km az=29.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=10.4km az=214.0.
ISC VI 12 20 02 57.6–.95 13.3N–.10 41.6E–.10 10 4.0b 13 2-63
IDC VI 12 20 02 56.0–1.0 13.28N 41.57E 0 4.3L,4.0 **¶17205972**
ISCJB VI 12 20 02 56.2–.82 13.4N–.10 41.7E–.10 10 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 20 03 43.6–2.5 13.8N–.40 41.3E–.20 10 4.0b 9 27-63
ISCJB VI 12 20 03 41.7–2.1 13.7N–.30 41.4E–.20 10 3.8b **¶17205975**
IDC VI 12 20 03 42.2–2.5 13.78N 41.34E 0 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=48.4km s-min=22.1km az=164.6.
IDC Error ellipse: s-maj=57.8km s-min=25.6km az=163.0.
IDC VI 12 20 05 46.9–5.8 13.65N 41.74E 0 3.8,3.7
¶17205976
IDC Error ellipse: s-maj=133.5km s-min=43.3km az=25.0.
IDC VI 12 20 06 26.3–7.7 13.52N 41.63E 0 3.7,3.5
¶17205979
IDC Error ellipse: s-maj=188.8km s-min=35.9km az=2.0.
ISC VI 12 20 08 43.8–1.1 13.4N–.20 41.7E–.20 10 3.6b 6 2-53
ISCJB VI 12 20 08 42.5–.96 13.4N–.10 41.7E–.20 10 3.6b **¶17205980**
IDC VI 12 20 08 42.4–1.2 13.35N 41.69E 0 4.3L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.4km s-min=16.9km az=156.1.
IDC Error ellipse: s-maj=31.7km s-min=15.7km az=62.0.
ISC VI 12 20 10 10.0–.70 13.28N–.07 41.98E–.07 10 3.7b 26 2-126
ISCJB VI 12 20 10 09.8–.72 13.5N–.10 41.9E–.10 10 3.7b **¶16720910**
IDC VI 12 20 10 09.7–.80 13.58N 42.02E 0 4.2L,3.7
DHMR VI 12 20 10 11.4–.31 13.01N 42.34E 3–33 4.5L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.3km s-min=12.4km az=43.7.
IDC Error ellipse: s-maj=22.9km s-min=14.1km az=74.0.
DHMR Error ellipse: s-maj=21.4km s-min=22.1km az=-1.0.
ISC VI 12 20 10 55.0–1.0 13.2N–.20 41.66E–.09 10 4.2b 73 2-126
ISCJB VI 12 20 10 52.8–.97 13.1N–.10 41.72E–.07 10 4.3b **¶17205981**
IDC VI 12 20 10 53.4–1.2 13.16N 41.65E 0 4.3,4.3
NEIC VI 12 20 10 54.8–.66 13.15N 41.66E 10 4.1b,4.3
CSEM VI 12 20 10 55.0–.46 13.14N 41.71E 10 4.2b,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=10.4km az=2.4.
IDC Error ellipse: s-maj=27.8km s-min=16.7km az=168.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=8.9km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=19.2km s-min=10.3km az=178.0.
ISC VI 12 20 15 35.3–.67 13.22N–.07 41.91E–.08 10 4.0b 34 2-126
DHMR VI 12 20 15 30.3–1.5 13.34N 42.04E 2–154 4.4L **¶17205983**
ISCJB VI 12 20 15 35.0–.57 13.31N–.06 41.97E–.05 10 4.0b
IDC VI 12 20 15 34.2–.76 13.22N 41.66E 0 4.4L,4.1
ISC Event type ke.
DHMR Error ellipse: s-maj=75.3km s-min=277.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.1km s-min=6.9km az=8.7.
IDC Error ellipse: s-maj=18.7km s-min=12.7km az=52.0.
ISC VI 12 20 18 17.0–.64 13.41N–.07 41.75E–.07 10 4.2b 38 2-126
ISCJB VI 12 20 18 15.1–.50 13.35N–.06 41.75E–.04 10 4.1b **¶17205984**
IDC VI 12 20 18 15.3–.68 13.33N 41.63E 0 4.5L,4.2
DHMR VI 12 20 18 15.0–1.1 13.42N 42.03E 7–49 4.4L,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.0km az=0.4.
IDC Error ellipse: s-maj=17.3km s-min=12.3km az=48.0.
DHMR Error ellipse: s-maj=17.8km s-min=48.6km az=-1.0.
ISC VI 12 20 18 48.9–1.6 13.0N–.30 41.8E–.20 10 4.0b 10 28-126
ISCJB VI 12 20 18 46.5–1.6 12.9N–.30 41.8E–.10 10 4.0b **¶17205987**
IDC VI 12 20 18 47.4–1.6 12.93N 41.82E 0 4.2,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=40.6km s-min=19.0km az=176.6.
IDC Error ellipse: s-maj=43.8km s-min=21.7km az=175.0.
ISC VI 12 20 23 06.3–.54 13.45N–.06 41.79E–.06 10 4.2b 78 2-125
ISCJB VI 12 20 23 04.5–.41 13.39N–.05 41.78E–.04 10 4.2s,4.1b **¶16730333**
IDC VI 12 20 23 04.8–.61 13.36N 41.64E 0 4.3,4.2
NEIC VI 12 20 23 06.4–.42 13.39N 41.62E 10 4.3b,4.2
CSEM VI 12 20 23 06.7–.24 13.40N 41.67E 10 4.2b,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.2km az=13.2.
IDC Error ellipse: s-maj=15.1km s-min=11.8km az=67.0.
NEIC Event type se. Error ellipse: s-maj=10.0km s-min=9.1km az=92.0.
CSEM Event type ke. Error ellipse: s-maj=10.0km s-min=9.1km az=79.0.
ISC VI 12 20 26 07.8–.95 13.1N–.10 41.5E–.10 10 3.8b 11 2-64
ISCJB VI 12 20 26 06.4–.84 13.2N–.10 41.6E–.10 10 3.8b **¶17205988**
IDC VI 12 20 26 06.3–1.0 13.11N 41.53E 0 4.5L,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.6km s-min=14.1km az=137.7.
IDC Error ellipse: s-maj=25.4km s-min=13.5km az=50.0.
ISC VI 12 20 32 40.0–.44 13.44N–.03 41.73E–.03 7–2 5.3b,5.2s 1266 2-170
BJI VI 12 20 32 34.7 13.13N 41.53E 4 5.8b,5.6 **¶16591779**
IDC VI 12 20 32 38.2–.44 13.33N 41.71E 0 5.4s,5.3
ISCJB VI 12 20 32 39.2–.15 13.38N–.02 41.72E–.02 15 5.2b,5.2s
STR VI 12 20 32 39.6–.00 13.10N 41.20E 5.4b,5.2s
MOS VI 12 20 32 39.0–1.1 13.46N 41.69E 10 5.6b,5.0s
DHMR VI 12 20 32 39.8–1.0 13.56N 42.17E 9–30 5.3L,5.0s
NEIC VI 12 20 32 40.0–.00 13.46N 41.69E 15 5.3L,5.0s
SFS VI 12 20 32 40.0 13.42N 41.70E 10 5.3L,5.0s
GCMT VI 12 20 32 40.5–.10 13.58N 41.81E 12 5.6W,5.0s
CSEM VI 12 20 32 40.5–.10 13.42N 41.73E 10 5.6W,5.3b
DSN VI 12 20 32 40.2–.46 13.38N 41.93E 10 5.5b,5.3b
NEIC VI 12 20 32 40.5–.17 13.41N 41.74E 10 5.7W,5.6W
ISC Event type fe.
IDC Error ellipse: s-maj=12.5km s-min=9.2km az=64.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.2km az=23.0.
STR Event type ke.
MOS Error ellipse: s-maj=7.0km s-min=3.3km az=97.3.
DHMR Error ellipse: s-maj=4.3km s-min=27.0km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.15 $M_{\theta\theta}$1.26 $M_{\phi\phi}$0.89 $M_{r\theta}$0.72 $M_{\theta\phi}$-1.42 $M_{\phi r}$-1.23 Best double couple: NP1:ϕ_s322.00000°,δ61.00000°,λ-78.00000°. NP2:ϕ_s119.00000°,δ31.00000°,λ-109.00000°. Principal axes: T 2.8700,Plg15.0000°,Azm43.0000°; N -0.2800,Plg10.0000°,Azm136.0000° ; P -2.5900,Plg71.0000°,Azm258.0000° $M_0$2.70000×10^{17}
SFS Event type ke.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c143; s121,c299;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-2.45±.03 $M_{\theta\theta}$1.71±.03; $M_{\phi\phi}$0.74±.03; $M_{r\theta}$0.81±.08; $M_{\theta\phi}$-1.75±.02; $M_{\phi r}$0.29±.08; Best double couple: NP1: ϕ_s290.00000°,δ53.00000°,λ-113.00000°. NP2:ϕ_s145.00000°,δ43.00000°,λ-63.00000°. Principal axes: T 3.0810,Plg5.0000°,Azm36.0000°; N -0.3510,Plg18.0000°,Azm305.0000° ; P -2.7300,Plg71.0000°,Azm141.0000° $M_0$2.90600×10^{17}
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.2km az=26.0.
DSN Error ellipse: s-maj=14.3km s-min=5.8km az=124.0.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=3.6km az=47.0. Felt at Ta'izz, Yemen. Moment Tensor Solution. s20 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.49 $M_{\theta\theta}$2.01 $M_{\phi\phi}$-0.52 $M_{r\theta}$2.02 $M_{\theta\phi}$-2.68 $M_{\phi r}$0.94 Best double couple: NP1:ϕ_s265.00000°,δ73.00000°,λ-139.00000°. NP2:ϕ_s161.00000°,δ51.00000°,λ-22.00000°. Principal axes: T 4.0100,Plg14.0000° ,Azm28.0000°; N -0.1600,Plg46.0000°,Azm283.0000°; P -3.8500,Plg41.0000° ,Azm130.0000° $M_0$3.90000×10^{17}
IDC VI 12 20 36 37.0–539 14.56N 41.48E 0
¶17205991
IDC Error ellipse: s-maj=243.9km s-min=227.3km az=124.0.
IDC VI 12 20 37 57.9–29 10.08N 40.47E 0 3.7,3.7
¶17205992
IDC Error ellipse: s-maj=621.3km s-min=61.8km az=7.0.
IDC VI 12 20 44 37.5–1.4 13.45N 41.83E 0 4.0L,3.6
¶17205993
IDC Error ellipse: s-maj=40.2km s-min=16.7km az=61.0.
IDC VI 12 20 45 10.1–10 13.71N 41.53E 0 3.8,3.7
¶17205996
IDC Error ellipse: s-maj=247.0km s-min=36.0km az=178.0.
ISC VI 12 20 46 20.4–.88 13.3N–.10 41.8E–.10 10 3.8b 12 2-63
ISCJB VI 12 20 46 19.0–.75 13.4N–.10 41.8E–.10 10 4.3s,3.8b **¶17205997**
IDC VI 12 20 46 19.0–.93 13.31N 41.76E 0 4.5L,4.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=13.3km az=141.6.
IDC Error ellipse: s-maj=24.4km s-min=13.4km az=56.0.
ISC VI 12 20 53 13.7–1.1 13.3N–.20 41.8E–.20 10 3.7b 6 2-63
ISCJB VI 12 20 53 12.2–1.0 13.4N–.10 41.8E–.20 10 3.6b **¶17206001**
IDC VI 12 20 53 12.3–1.2 13.34N 41.77E 0 4.2L,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.0km s-min=18.0km az=170.1.
IDC Error ellipse: s-maj=27.4km s-min=15.7km az=67.0.
ISC VI 12 20 58 18.6–.75 13.4N–.10 41.68E–.08 10 4.0b 52 2-66
IDC VI 12 20 58 16.9–1.1 13.37N 41.62E 0 4.3L,4.2 **¶17206002**
ISCJB VI 12 20 58 17.1–.64 13.41N–.09 41.66E–.05 10 4.0b,4.2
NEIC VI 12 20 58 18.5–.56 13.43N 41.68E 10 4.0b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=23.4km s-min=16.5km az=14.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=7.2km az=5.4.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.7km az=198.0.
ISC VI 12 21 02 54.1–1.0 13.2N–.10 41.7E–.20 10 3.9b 8 2-63
ISCJB VI 12 21 02 52.7–.93 13.3N–.10 41.7E–.20 10 3.8b **¶16730349**
IDC VI 12 21 02 52.7–1.3 13.27N 41.65E 0 4.2L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=16.5km az=157.1.
IDC Error ellipse: s-maj=28.1km s-min=26.9km az=12.0.
ISC VI 12 21 03 22.3–.48 13.52N–.03 41.70E–.03 3–2 5.6b,5.1s 1387 2-143
BJI VI 12 21 03 16.4 13.23N 41.28E 4 5.5b,5.4s **¶17206003**
IDC VI 12 21 03 20.9–.39 13.38N 41.69E 0 5.2,5.2
ISCJB VI 12 21 03 21.2–.14 13.54N–.02 41.65E–.02 8 5.5b,5.0s
STR VI 12 21 03 22.6–.00 13.59N 41.60E 5.4b,5.0s
CSEM VI 12 21 03 22.5–.09 13.55N 41.68E 5 5.6b,5.4W
MOS VI 12 21 03 22.4–1.0 13.57N 41.60E 14 5.9b,5.0s
NEIC VI 12 21 03 23.2–.16 13.53N 41.64E 10 5.6b,5.1s
GCMT VI 12 21 03 23.1–.10 13.58N 41.80E 12 5.4W,5.1s
DHMR VI 12 21 03 23.6–.60 13.55N 42.24E 6–17 5.2L,5.1s
DSN VI 12 21 03 26.8–1.1 13.81N 41.96E 10 5.9b,5.1s
ISC Event type fe.
IDC Error ellipse: s-maj=9.9km s-min=8.6km az=52.0.
ISCJB Event type fe. Error ellipse: s-maj=3.2km s-min=2.0km az=19.9.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.3km s-min=3.0km az=19.0.
MOS Error ellipse: s-maj=6.7km s-min=3.1km az=99.1.
NEIC Event type fe. Error ellipse: s-maj=4.5km s-min=3.3km az=222.0. Felt [IV] at Mek'ele and [III] at Korem, Ethiopia. Felt [II] at Asmera, Eritrea. Also felt at Assab. Felt at Djibouti, Djibouti. Also felt at Aden and Al Hudaydah, Yemen.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s82,c118; s117,c263;Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.26±.02 $M_{\theta\theta}$1.17±.01; $M_{\phi\phi}$0.09±.02; $M_{r\theta}$0.46±.04; $M_{\theta\phi}$-0.57±.01; $M_{\phi r}$0.12±.04; Best double couple: NP1: ϕ_s280.00000°,δ54.00000°,λ-106.00000°. NP2:ϕ_s127.00000°,δ39.00000°,λ-69.00000°. Principal axes: T 1.4650,Plg8.0000°,Azm22.0000°; N -0.0800,Plg13.0000°,Azm290.0000° ; P -1.3810,Plg75.0000°,Azm142.0000° $M_0$1.42300×10^{17}
DHMR Error ellipse: s-maj=2.6km s-min=15.8km az=-1.0.
DSN Error ellipse: s-maj=18.2km s-min=10.4km az=178.0.
IDC VI 12 21 15 27.5–2.2 13.35N 41.65E 0 4.2L,3.8
¶17206006
IDC Error ellipse: s-maj=64.1km s-min=16.0km az=64.0.
ISC VI 12 21 17 11.2–.71 13.47N–.10 41.65E–.08 10 4.0b 42 2-63
ISCJB VI 12 21 17 09.6–.57 13.40N–.08 41.63E–.05 10 4.2b **¶16730353**
IDC VI 12 21 17 09.9–.96 13.39N 41.64E 0 4.0,3.9
NEIC VI 12 21 17 11.2–.47 13.41N 41.55E 10 4.6b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=7.6km az=2.4.
IDC Error ellipse: s-maj=23.0km s-min=14.0km az=53.0.
NEIC Event type se. Error ellipse: s-maj=10.6km s-min=8.1km az=203.0.
IDC VI 12 21 17 47.3–2.8 13.16N 41.26E 0 4.2L,3.9
¶17206009
IDC Error ellipse: s-maj=69.9km s-min=17.1km az=56.0.
IDC VI 12 21 20 22.0–1.3 13.15N 41.62E 0 3.7L,3.6
¶17206010
IDC Error ellipse: s-maj=34.5km s-min=15.8km az=56.0.
IDC VI 12 21 23 59.4–14 11.65N 41.22E 0 3.7,3.6
¶17206011
IDC Error ellipse: s-maj=296.0km s-min=47.5km az=12.0.
ISC VI 12 21 31 08.1–.80 13.3N–.10 41.61E–.09 10 4.1b 30 2-126
ISCJB VI 12 21 31 06.9–.64 13.44N–.09 41.60E–.06 10 4.2s,4.0b **¶16730359**
IDC VI 12 21 31 06.7–.88 13.34N 41.63E 0 4.5L,4.3
NEIC VI 12 21 31 08.7–4.5 13.34N 41.54E 13–29 4.6b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.4km az=0.3.
IDC Error ellipse: s-maj=26.3km s-min=13.5km az=56.0.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=8.7km az=181.0.
ISC VI 12 21 37 13.5–.83 13.30N–.03 41.87E–.05 12–5 4.4b 201 1-126
ISCJB VI 12 21 37 11.0–1.6 13.35N–.03 41.83E–.03 3–10 4.4b,4.2s **¶16593442**
ARO VI 12 21 37 11.6 13N–6.0 42E–5.0 5–8 5.0L,4.2s
IDC VI 12 21 37 12.0–.63 13.25N 41.73E 0 4.3,4.3
CSEM VI 12 21 37 13.4–.19 13.26N 41.79E 10 4.4b,4.3
NEIC VI 12 21 37 13.3–3.9 13.21N 41.79E 12–25 4.5b,4.3
DHMR VI 12 21 37 14.7–1.7 13.49N 42.21E 12–20 4.4L,4.3
SGS VI 12 21 37 53.7 16.29N 42.33E 17 4.4L,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.4km az=40.1.
IDC Error ellipse: s-maj=16.1km s-min=11.5km az=59.0.
CSEM Event type ke. Error ellipse: s-maj=7.8km s-min=5.8km az=5.0.
NEIC Event type se. Error ellipse: s-maj=7.9km s-min=6.9km az=176.0.
DHMR Error ellipse: s-maj=7.6km s-min=16.0km az=-1.0.
IDC VI 12 21 39 01.1–597 13.06N 41.18E 0
¶17206012
IDC Error ellipse: s-maj=278.0km s-min=205.0km az=82.0.

ISC VI 12 21 41 56.8–.41 13.39N–.04 41.69E–.05 10 4.5b,3.8s 211 1-126
ARO VI 12 21 41 55.0 13N–14 42E–15 1–14 4.9L,3.8s ¶16593443
ISCJB VI 12 21 41 55.5–.23 13.42N–.03 41.72E–.03 10 4.4b,3.9s
NEIC VI 12 21 41 55.8–3.1 13.38N 41.62E 2–20 4.6b,3.9s
IDC VI 12 21 41 55.4–.68 13.34N 41.66E 0 4.3,4.3
CSEM VI 12 21 41 57.1–.18 13.40N 41.65E 10 4.5b,4.3
DHMR VI 12 21 41 58.5–.56 13.64N 42.06E 9–59 4.5L,4.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.7km az=142.2.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=165.0.
IDC Error ellipse: s-maj=17.6km s-min=12.2km az=50.0.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=5.3km az=176.0.
DHMR Error ellipse: s-maj=19.6km s-min=33.4km az=-1.0.
IDC VI 12 22 14 39.7–15 13.84N 41.73E 0 3.5,3.4
¶17206013
IDC Error ellipse: s-maj=343.9km s-min=55.0km az=11.0.
ISC VI 12 23 24 33.9–.85 13.36N–.07 41.89E–.08 10 3.8b 15 2-63
ISCJB VI 12 23 24 32.5–.78 13.31N–.09 41.77E–.07 10 3.6b ¶17206014
IDC VI 12 23 24 32.5–.92 13.27N 41.72E 0 4.2L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.9km s-min=9.5km az=2.1.
IDC Error ellipse: s-maj=26.2km s-min=13.5km az=57.0.
ISC VI 13 01 42 17.7–3.8 13.5N–.10 41.7E–.20 10 12 1-2
ARO VI 13 01 42 18.5 13N–6.0 42E–6.0 1–6 4.0L ¶601124810
ISC Event type ke.
ISC VI 14 01 29 20.2–1.3 13.1N–.10 41.9E–.10 10 8 2-5
DHMR VI 14 01 29 16.1–1.3 13.20N 41.93E 6–16 4.1L ¶601876101
ISC Event type ke.
DHMR Error ellipse: s-maj=12.6km s-min=12.1km az=-1.0.
DHMR VI 14 20 51 08.7–1.2 12.84N 41.64E 2–14 3.5L
¶601876102
DHMR Error ellipse: s-maj=20.9km s-min=18.0km az=-1.0.
ARO VI 16 01 30 15.1 13N–8.0 42E–4.0 4–9 3.9L
¶601124831
ISC VI 16 03 47 03.8–1.8 13.24N–.06 41.8E–.10 10 17 1-4
DHMR VI 16 03 47 02.0–.80 13.26N 42.01E 6–8 4.2L ¶601124832
ARO VI 16 03 47 02.3 13N–5.0 42E–4.0 4–8 4.4L
ISCJB VI 16 03 47 04.8–1.3 13.29N–.06 41.91E–.09 10 4.4L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 08 30 27.8–2.2 13.43N–.06 41.7E–.10 10 17 1-4
DHMR VI 16 08 30 27.2–1.3 13.08N 41.94E 6–34 4.3L ¶601124833
ISCJB VI 16 08 30 30.6–1.4 13.34N–.07 41.86E–.10 10 4.3L
ARO VI 16 08 30 30.3 13N–7.0 42E–9.0 0–8 4.5L
ISC Event type ke.
ISCJB Event type ke.
ISC VI 16 10 47 56.6–2.8 13.52N–.09 41.6E–.20 10 12 2-4
ARO VI 16 10 47 58.1 13N–4.0 42E–2.0 8–3 4.0L ¶601124834
ISC Event type ke.
ARO VI 16 11 03 25.8 14N–7.0 42E–8.0 2–7 3.5L
¶601124835
ISC VI 17 09 16 12.0–.47 13.26N–.03 41.69E–.03 7–2 5.4b,5.4s 1549 2-175
BJI VI 17 09 16 08.5 13.22N 41.59E 4 5.8s,5.6 ¶16621538
DHMR VI 17 09 16 08.7–1.3 13.30N 41.85E 12–12 5.5L,5.6
ISCJB VI 17 09 16 10.6–.16 13.25N–.02 41.71E–.01 11 5.3b,5.3s
IDC VI 17 09 16 10.3–.46 13.20N 41.71E 0 5.3s,5.3b
MOS VI 17 09 16 10.8–.85 13.30N 41.70E 10 5.7b,5.2s
STR VI 17 09 16 11.3–.00 13.32N 41.80E 5.4b,5.2s
CSEM VI 17 09 16 11.0–.11 13.26N 41.75E 2 5.6W,5.4s
NEIC VI 17 09 16 12.6–.20 13.30N 41.73E 10 5.6W,5.5b
GCMT VI 17 09 16 12.6–.10 13.46N 41.76E 12 5.6W,5.5b
DSN VI 17 09 16 12.0–.02 13.17N 42.14E 10 5.7b,5.5b
ISC Event type fe.
DHMR Error ellipse: s-maj=7.2km s-min=11.0km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=1.9km az=16.0.
IDC Error ellipse: s-maj=12.8km s-min=8.7km az=57.0.
MOS Error ellipse: s-maj=7.7km s-min=3.4km az=95.4.
STR Event type ke.
CSEM Event type ke. Error ellipse: s-maj=4.8km s-min=3.1km az=16.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.5km az=219.0. Felt at Asmera, Eritrea, at Mek'ele, Ethiopia and at Al Hudaydah, Yemen. Moment Tensor Solution. s40 Moment tensor: Scale 10^{17}Nm; M_{rr}0.10 $M_{\theta\theta}$0.37 $M_{\phi\phi}$0.28 $M_{r\theta}$-0.52 $M_{\theta\phi}$-2.57 $M_{\phi r}$-1.46 Best double couple: NP1:ϕ_s3.00000°,δ87.00000°,λ-29.00000°. NP2:ϕ_s95.00000°,δ61.00000°,λ-176.00000°. Principal axes: T 2.7800,Plg18.0000°,Azm53.0000°; N 0.4300,Plg61.0000°,Azm177.0000°; P -3.2100,Plg23.0000°,Azm315.0000° $M_0$3.00000×10^{17}
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s108,c186; s129,c337;Duration: 1ᵍ6 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.62±.03 $M_{\theta\theta}$-0.86±.04; $M_{\phi\phi}$1.47±.04; $M_{r\theta}$-0.61±.09; $M_{\theta\phi}$-3.11±.03; $M_{\phi r}$0.17±.09; Best double couple: NP1: ϕ_s101.00000°,δ88.00000°,λ-169.00000°. NP2:ϕ_s10.00000°,δ79.00000°,λ-2.00000°. Principal axes: T 3.6820,Plg6.0000°,Azm235.0000°; N -0.6050,Plg79.0000°,Azm111.0000°; P -3.0810,Plg9.0000°,Azm326.0000° $M_0$3.38200×10^{17}
DSN Error ellipse: s-maj=3.3km s-min=1.1km az=303.0.
ISC VI 17 11 32 20.2–.95 12.88N–.09 41.75E–.09 10 4.0b 16 2-64
IDC VI 17 11 32 11.8–1.6 12.46N 40.67E 0 3.9,3.8 ¶17206383
ISCJB VI 17 11 32 19.5–1.1 12.99N–.09 41.74E–.07 10 3.8b,3.8
DHMR VI 17 11 32 23.6–.92 13.00N 42.17E 6–20 3.9L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=36.0km s-min=17.0km az=27.0.
ISCJB Event type ke. Error ellipse: s-maj=13.5km s-min=9.7km az=163.8.
DHMR Error ellipse: s-maj=8.0km s-min=19.5km az=-1.0.
ISC VI 17 23 44 57.8–1.5 13.40N–.10 41.75E–.10 10 8 3-5
DHMR VI 17 23 45 07.1–1.4 13.44N 42.00E 8–17 3.9L ¶601876105
ISC Event type ke.
DHMR Error ellipse: s-maj=11.7km s-min=13.5km az=-1.0.
DHMR VI 19 05 32 39.4–.64 13.05N 42.12E 16–8 4.0L
¶601876107
DHMR Error ellipse: s-maj=9.9km s-min=9.2km az=-1.0.
DHMR VI 19 05 47 23.0–1.7 13.27N 42.32E 7–40 4.0L
¶601876108
DHMR Error ellipse: s-maj=34.1km s-min=45.1km az=-1.0.
DHMR VI 21 11 02 40.6–1.5 13.57N 42.18E 37–10 3.6L
CSEM VI 21 11 02 40.6 13.57N 42.18E 37 3.6L ¶601876109
DHMR Error ellipse: s-maj=11.5km s-min=10.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC VI 23 08 32 24.5–652 13.08N 41.02E 0
¶17206809
IDC Error ellipse: s-maj=347.0km s-min=232.3km az=75.0.
DHMR VI 25 20 21 38.3–.63 12.89N 42.01E 16–8 3.8L
¶601876110
DHMR Error ellipse: s-maj=9.8km s-min=9.6km az=-1.0.

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ISC I 04 22 49 31.3–1.4 12.00N–.08 44.15E–.08 4 12 1-6
DHMR I 04 22 49 30.9–1.6 12.02N 44.04E 16–19 4.0L ¶601875254
ISC Event type ke.
DHMR Error ellipse: s-maj=13.4km s-min=7.1km az=-1.0.
DHMR I 04 22 56 27.4–1.6 11.97N 44.08E 16–179 3.5L
¶601875255
DHMR Error ellipse: s-maj=94.1km s-min=37.9km az=-1.0.
ISC I 04 23 00 43.5–1.5 11.71N–.10 44.14E–.09 10 12 1-6
DHMR I 04 23 00 44.1–1.1 11.83N 44.07E 13–9 4.3L ¶601875256
ISC Event type ke.
DHMR Error ellipse: s-maj=9.1km s-min=7.2km az=-1.0.
DHMR I 04 23 13 17.2–1.9 11.97N 44.19E 17–16 3.8L
¶601875257
DHMR Error ellipse: s-maj=14.2km s-min=11.6km az=-1.0.
DHMR I 04 23 32 31.7–2.2 11.96N 44.07E 13–24 3.8L
¶601875260
DHMR Error ellipse: s-maj=19.5km s-min=13.2km az=-1.0.
ISC I 04 23 43 04.6–2.4 11.86N–.09 44.03E–.09 6–16 3.8b 15 1-53
IDC I 04 23 43 02.9–1.8 11.65N 44.09E 0 3.8,3.7 ¶17189462
ISCJB I 04 23 43 04.0–2.3 11.81N–.07 44.14E–.07 15–16 3.6b,3.7
DHMR I 04 23 43 06.6–1.4 12.07N 44.16E 17–12 4.3L,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=54.0km s-min=16.9km az=165.0.
ISCJB Event type ke. Error ellipse: s-maj=14.1km s-min=6.8km az=137.9.
DHMR Error ellipse: s-maj=10.7km s-min=8.0km az=-1.0.
ISC I 04 23 48 51.8–.98 11.92N–.08 44.02E–.08 10 3.8b 16 1-63
DHMR I 04 23 48 48.9–.69 11.92N 44.08E 17–9 4.1L ¶17189463
ISCJB I 04 23 48 49.9–.79 11.87N–.06 44.08E–.06 10 3.7b
IDC I 04 23 48 50.7–1.6 11.89N 43.93E 0 3.7,3.6
ISC Event type ke.
DHMR Error ellipse: s-maj=7.0km s-min=3.2km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=10.3km s-min=5.5km az=137.6.
IDC Error ellipse: s-maj=71.0km s-min=15.5km az=156.0.
ISC I 04 23 52 24.4–.96 11.84N–.09 44.10E–.07 10 3.7b,3.4s 19 1-55
ISCJB I 04 23 52 23.0–.75 11.84N–.06 44.13E–.05 10 3.6b,3.5s ¶17189464
DHMR I 04 23 52 22.9–1.1 11.95N 44.12E 16–13 4.5L,3.5s
IDC I 04 23 52 22.6–1.6 11.66N 44.09E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.3km az=138.5.
DHMR Error ellipse: s-maj=11.5km s-min=5.1km az=-1.0.
IDC Error ellipse: s-maj=43.6km s-min=15.6km az=165.0.
DHMR I 05 02 10 46.2–1.8 11.97N 44.13E 15–15 3.8L
¶601875288
DHMR Error ellipse: s-maj=13.5km s-min=9.8km az=-1.0.
DHMR I 05 02 29 33.0–1.6 11.88N 44.12E 15–21 4.0L
¶601875291
DHMR Error ellipse: s-maj=16.0km s-min=7.5km az=-1.0.
ISC I 05 02 52 59.1–1.5 12.0N–.10 44.1E–.10 10 3.6b 12 1-63
DHMR I 05 02 52 51.6–1.8 11.81N 44.08E 12–23 4.2L ¶17189475
IDC I 05 02 52 55.5–3.0 11.43N 44.33E 0 3.5,3.5
ISCJB I 05 02 52 56.1–1.1 11.85N–.07 44.14E–.08 10 3.4b,3.5
ISC Event type ke.
ISCJB Event type ke.
DHMR I 05 03 13 19.9–1.4 11.93N 44.09E 14–11 3.7L
¶601875294
DHMR Error ellipse: s-maj=11.2km s-min=8.0km az=-1.0.
DHMR I 05 03 37 48.5–.84 11.97N 44.14E 18–10 3.8L
¶601875295
DHMR Error ellipse: s-maj=8.1km s-min=3.7km az=-1.0.
ISC I 05 04 18 49.9–1.3 11.99N–.07 44.12E–.07 10 14 1-6
ISCJB I 05 04 18 47.4–2.1 11.8N–.10 44.11E–.09 10 ¶601875299
DHMR I 05 04 18 49.3–1.6 11.97N 44.12E 17–19 4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=12.0km az=3.2.
DHMR Error ellipse: s-maj=13.2km s-min=6.6km az=-1.0.
DHMR I 05 04 37 43.5–.84 11.86N 44.11E 14–91 3.5L
¶601875301
DHMR Error ellipse: s-maj=47.7km s-min=16.6km az=-1.0.
DHMR I 07 00 36 41.3–1.6 11.93N 44.06E 14–15 3.5L
¶601875314
DHMR Error ellipse: s-maj=13.0km s-min=8.8km az=-1.0.
DHMR I 10 01 34 33.9–1.4 11.94N 44.01E 8–34 3.7L
¶601875328
DHMR Error ellipse: s-maj=24.0km s-min=16.6km az=-1.0.
DHMR I 16 01 53 50.7–1.5 11.91N 44.09E 15–26 3.6L
¶601875554
DHMR Error ellipse: s-maj=17.9km s-min=8.0km az=-1.0.
ISC I 16 02 09 38.3–5.0 11.9N–.20 44.0E–.10 4–25 3.8b,3.3s 12 1-64
DHMR I 16 02 09 37.7–2.4 11.99N 43.91E 10–28 4.3L,3.3s ¶17190285
IDC I 16 02 09 40.8–3.1 11.62N 44.18E 0 3.7,3.7b
ISC Event type ke.
DHMR Error ellipse: s-maj=23.2km s-min=10.5km az=-1.0.
IDC Error ellipse: s-maj=81.6km s-min=30.1km az=162.0.
DHMR I 16 02 49 56.6–1.7 11.93N 44.07E 15–15 3.7L
¶601875558
DHMR Error ellipse: s-maj=15.0km s-min=10.8km az=-1.0.
IDC I 16 04 05 11.4–3.2 11.72N 44.14E 0 3.4,3.4b
¶17190295
IDC Error ellipse: s-maj=85.8km s-min=34.5km az=163.0.
ISC I 16 04 20 15.8–2.1 11.8N–.20 44.3E–.20 4 3.4b,3.1s 9 1-63
ISCJB I 16 04 20 13.7–1.7 11.8N–.20 44.3E–.20 4 3.3b,3.2s ¶17190296
DHMR I 16 04 20 13.2–1.1 11.97N 43.93E 29–10 4.3L,3.2s
IDC I 16 04 20 15.3–3.2 11.63N 44.17E 0 3.5,3.5b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=39.5km s-min=9.4km az=42.3.
DHMR Error ellipse: s-maj=13.7km s-min=14.6km az=-1.0.
IDC Error ellipse: s-maj=84.3km s-min=36.5km az=159.0.
ISC I 16 04 42 09.4–2.9 11.7N–.10 44.25E–.10 12–20 4.0b,3.3s 17 1-63
ISCJB I 16 04 42 07.3–2.4 11.72N–.08 44.17E–.08 3–16 4.0b,3.4s ¶16031152
IDC I 16 04 42 08.9–2.3 11.69N 44.06E 0 3.9,3.9b
DHMR I 16 04 42 09.4–1.3 11.71N 44.39E 31–10 4.3L,3.9b
NEIC I 16 04 42 10.4–.86 11.74N 44.07E 10 4.0b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.3km s-min=6.3km az=138.1.
IDC Error ellipse: s-maj=58.4km s-min=16.7km az=158.0.
DHMR Error ellipse: s-maj=21.9km s-min=44.2km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=21.9km s-min=10.5km az=139.0.
DHMR I 16 04 53 41.4–.96 11.95N 44.03E 14–9 4.0L
¶601875562
DHMR Error ellipse: s-maj=7.8km s-min=5.2km az=-1.0.
ISC I 16 05 37 50.5–.60 11.86N–.06 44.09E–.06 4 4.1b,3.4s 34 1-94
ISCJB I 16 05 37 48.8–.48 11.83N–.04 44.08E–.05 4 4.0b,3.6s ¶16057178
IDC I 16 05 37 49.7–.91 11.82N 44.04E 0 4.1,4.0
DHMR I 16 05 37 50.7–1.8 12.06N 44.11E 3–9 4.4L,4.0
NEIC I 16 05 37 51.4–.42 11.84N 44.00E 10 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.9km az=36.7.
IDC Error ellipse: s-maj=23.1km s-min=10.2km az=156.0.
DHMR Error ellipse: s-maj=9.8km s-min=7.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.2km az=134.0.
DHMR I 16 06 13 31.8–1.3 11.93N 44.07E 12–15 3.9L
¶601875566
DHMR Error ellipse: s-maj=12.6km s-min=6.8km az=-1.0.
DHMR I 16 14 20 21.1–.96 11.89N 44.08E 14–94 3.8L
¶601875570
DHMR Error ellipse: s-maj=49.3km s-min=18.6km az=-1.0.
ISC I 18 16 35 54.9–.40 12.00N–.04 44.13E–.05 10 4.3b,3.6s 152 1-95
DHMR I 18 16 35 49.3–2.2 12.00N 43.99E 4–12 4.9L,3.6s ¶15937926
BJI I 18 16 35 52.4 12.19N 43.84E 10 5.0b,4.7s
IDC I 18 16 35 53.0–.81 11.86N 44.01E 0 4.2,4.1b
ISCJB I 18 16 35 53.1–.32 11.95N–.04 44.08E–.03 10 4.3b,3.5s
NEIC I 18 16 35 54.7–.37 11.90N 44.07E 10 4.8b,3.5s
MOS I 18 16 35 54.5–.94 12.06N 44.11E 13 4.5b,3.5s
CSEM I 18 16 35 55.1–.20 11.94N 44.10E 10 4.4b,3.5s
ISC Event type ke.
DHMR Error ellipse: s-maj=11.2km s-min=7.9km az=-1.0.
IDC Error ellipse: s-maj=19.5km s-min=12.6km az=157.0.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.8km az=143.6.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.9km az=146.0.
MOS Error ellipse: s-maj=14.7km s-min=6.4km az=94.2.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=6.7km az=156.0.
DHMR I 18 16 45 48.3–1.8 11.96N 44.04E 13–19 3.7L
¶601875582
DHMR Error ellipse: s-maj=15.9km s-min=10.6km az=-1.0.
ISC I 18 17 36 05.1–.85 11.98N–.07 44.04E–.07 10 3.7b,3.3s 23 1-63
DHMR I 18 17 36 03.1–2.0 12.08N 43.97E 11–24 4.2L,3.3s ¶17190497
ISCJB I 18 17 36 04.2–.70 11.97N–.05 44.04E–.05 10 3.5b,3.5s
IDC I 18 17 36 04.3–1.3 11.89N 44.00E 0 3.6,3.6
ISC Event type ke.

DHMR Error ellipse: s-maj=19.6km s-min=8.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=5.2km az=137.3.
IDC Error ellipse: s-maj=39.1km s-min=15.7km az=158.0.
DHMR I 18 21 22 08.9–1.8 11.96N 44.04E 15–142 3.6L
¶601875599

DHMR Error ellipse: s-maj=72.4km s-min=31.6km az=-1.0.
DHMR I 22 16 00 39.7–1.4 11.94N 44.02E 14–18 3.7L
¶601875616

DHMR Error ellipse: s-maj=13.2km s-min=6.6km az=-1.0.
DHMR I 30 01 33 54.9–1.4 11.92N 44.02E 13–12 4.2L
¶601875648

DHMR Error ellipse: s-maj=11.8km s-min=8.6km az=-1.0.
DHMR I 30 01 43 39.9–1.3 11.92N 44.02E 14–17 3.9L
¶601875650

DHMR Error ellipse: s-maj=13.2km s-min=6.1km az=-1.0.
DHMR I 30 01 56 57.3–.96 12.00N 44.07E 16–103 3.5L
¶601875654

DHMR Error ellipse: s-maj=54.1km s-min=22.7km az=-1.0.
ISC I 30 02 07 21.5–1.3 11.92N–.09 44.05E–.07 4 15 1-4
ISCJB I 30 02 07 21.8–.89 11.96N–.07 44.02E–.06 4 **¶601123752**
DHMR I 30 02 07 21.3–1.1 11.98N 43.96E 15–16 4.0L
ARO I 30 02 07 25.3 12N–2.0 44E–1.0 12–4 3.3L
ISC Event type ke.
ISCJB Event type ke.
ISC I 30 02 18 17.4–1.7 11.71N–.06 44.01E–.06 14–11 4.0b 36 1-94
DHMR I 30 02 18 14.2–1.1 11.91N 44.01E 11–14 4.6L **¶16136160**
ISCJB I 30 02 18 16.6–1.3 11.82N–.05 44.08E–.04 15–8 4.0b,3.8s
NEIC I 30 02 18 16.9–.61 11.68N 44.06E 10 4.1b,3.8s
IDC I 30 02 18 16.2–1.5 11.78N 43.98E 0 4.0,3.9
ARO I 30 02 18 19.0 12N–4.0 44E–3.0 11–8 4.1L,3.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC II 01 11 24 30.9–.36 11.83N–.04 44.04E–.04 4 4.6b,3.9s 308 1-129
DHMR II 01 11 24 27.9–1.6 11.95N 44.04E 4–7 4.8L,3.9s **¶15993436**
BJI II 01 11 24 27.7 11.69N 43.85E 6 5.3b,5.0s
ISCJB II 01 11 24 29.8–.24 11.86N–.03 44.07E–.02 4 4.6b,3.9s
CSEM II 01 11 24 30.7–.19 11.74N 44.01E 2 4.7b,3.9s
IDC II 01 11 24 30.9–.85 11.84N 44.00E 0 4.4,4.3
MOS II 01 11 24 30.5–1.0 11.82N 44.00E 10 4.9b,4.3
ARO II 01 11 24 31.3 12N–3.0 44E–2.0 11–5 4.4L,4.3
NEIC II 01 11 24 32.0–.32 11.78N 43.96E 10 4.8b,4.3
ISC Event type ke.
DHMR Error ellipse: s-maj=7.6km s-min=5.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=150.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.4km az=161.0.
IDC Error ellipse: s-maj=19.8km s-min=14.2km az=174.0.
MOS Error ellipse: s-maj=10.5km s-min=4.9km az=91.9.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.6km az=160.0.
DHMR II 03 02 48 50.5–1.4 11.86N 44.03E 39–11 3.5L
¶601875736

DHMR Error ellipse: s-maj=12.9km s-min=9.8km az=-1.0.
DHMR II 12 17 12 42.4–.97 11.95N 44.01E 14–12 3.7L
¶601875785

DHMR Error ellipse: s-maj=14.7km s-min=9.4km az=-1.0.
ISC II 13 05 12 16.7–1.9 11.7N–.10 44.3E–.10 10 14 1-4
ISCJB II 13 05 12 16.9–1.1 11.77N–.08 44.22E–.07 10 **¶601123826**
DHMR II 13 05 12 16.7–1.2 11.68N 44.33E 46–7 4.1L
ARO II 13 05 12 20.7 12N–4.0 44E–4.0 11–9 3.6L
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 11 33 54.7–.70 11.85N–.08 44.06E–.06 4 4.1b,3.5s 38 1-95
DHMR II 17 11 33 51.0–.90 11.87N 44.03E 13–23 4.8L,3.5s **¶16398405**
ISCJB II 17 11 33 53.3–.58 11.83N–.06 44.12E–.05 4 4.0b,3.6s
IDC II 17 11 33 54.0–1.1 11.66N 44.09E 0 4.1,4.0
NEIC II 17 11 33 55.4–.75 11.63N 44.10E 10 4.4b,4.0
ISC Event type se.
DHMR Error ellipse: s-maj=19.1km s-min=6.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=4.9km az=138.3.
IDC Error ellipse: s-maj=26.3km s-min=13.6km az=166.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=9.5km az=160.0.
ISC II 17 12 09 29.9–2.7 11.97N–.08 44.05E–.08 3–18 3.9b,3.5s 19 1-63
IDC II 17 12 09 29.0–1.4 11.83N 44.05E 0 4.0,3.9 **¶17192415**
ISC Event type ke.
IDC Error ellipse: s-maj=40.4km s-min=16.0km az=161.0.
ISC II 17 13 09 46.9–1.8 11.5N–.30 44.2E–.20 10 3.7b 10 6-63
IDC II 17 13 09 46.9–2.8 11.73N 44.25E 0 4.0s,4.0 **¶17192420**
ISC Event type ke.
IDC Error ellipse: s-maj=64.6km s-min=29.3km az=169.0.
ISC II 17 13 18 48.8–1.4 11.3N–.20 44.19E–.09 10 3.9b,3.3s 12 1-63
IDC II 17 13 18 49.4–2.2 11.64N 44.21E 0 3.9,3.8b **¶17192421**
ISC Event type ke.
IDC Error ellipse: s-maj=55.5km s-min=18.5km az=160.0.
ISC II 17 13 29 09.7–1.7 11.8N–.20 44.3E–.20 10 3.7b,3.4s 13 1-63
IDC II 17 13 29 07.1–3.0 11.57N 44.32E 0 3.7,3.7 **¶17192422**
ISC Event type ke.
IDC Error ellipse: s-maj=78.0km s-min=30.3km az=162.0.
ISC II 17 14 02 24.1–1.9 11.9N–.20 44.2E–.20 4 3.8b,3.4s 9 2-92
ISCJB II 17 14 02 21.6–1.4 11.8N–.20 44.2E–.20 4 3.6b,3.5s **¶17192424**
IDC II 17 14 02 23.6–2.8 11.88N 44.14E 0 3.7,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=34.5km s-min=10.4km az=41.5.
IDC Error ellipse: s-maj=67.1km s-min=30.0km az=165.0.
ISC II 17 14 15 06.0–1.3 11.7N–.10 44.15E–.09 10 3.8b 13 1-63
ISCJB II 17 14 15 07.7–.94 11.88N–.09 44.14E–.07 10 3.7b,2.8s **¶17192425**
IDC II 17 14 15 07.4–2.5 11.69N 44.10E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=5.7km az=142.9.
IDC Error ellipse: s-maj=65.1km s-min=17.1km az=159.0.
ISC II 17 16 00 12.9–.98 11.78N–.09 44.14E–.09 10 3.6b,3.2s 18 1-63
ISCJB II 17 16 00 11.1–.83 11.75N–.07 44.25E–.06 10 3.6b,3.3s **¶17192430**
IDC II 17 16 00 11.1–1.6 11.66N 44.18E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.7km s-min=6.2km az=138.7.
IDC Error ellipse: s-maj=43.0km s-min=16.2km az=167.0.
ISC II 17 17 44 55.4–1.2 11.4N–.20 44.17E–.08 10 3.6b,3.3s 9 1-63
IDC II 17 17 44 55.4–1.7 11.74N 44.09E 0 3.7,3.5 **¶17192437**
ISC Event type ke.
IDC Error ellipse: s-maj=45.8km s-min=17.2km az=165.0.
ISC II 17 18 43 03.2–1.6 12.0N–.20 44.1E–.20 4 3.8s,3.5b 11 1-86
ISCJB II 17 18 43 01.3–1.4 11.9N–.20 44.1E–.10 4 3.8s,3.6b **¶17192440**
IDC II 17 18 43 02.4–1.9 11.90N 44.08E 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.0km s-min=8.4km az=151.9.
IDC Error ellipse: s-maj=49.2km s-min=18.1km az=155.0.
IDC II 17 18 44 59.0–2.8 11.40N 44.40E 0 3.3,3.3
¶17192441

IDC Error ellipse: s-maj=77.3km s-min=22.5km az=163.0.
ISC II 17 20 49 20.2–1.2 11.2N–.10 44.17E–.08 10 3.9b,3.2s 11 1-63
IDC II 17 20 49 22.1–1.5 11.73N 44.07E 0 3.8,3.7b **¶17192444**
ISC Event type ke.
IDC Error ellipse: s-maj=42.3km s-min=15.4km az=163.0.
ISC II 17 21 03 23.6–1.2 11.9N–.20 44.1E–.10 4 4.2b,3.6s 18 1-77
ISCJB II 17 21 03 21.4–1.1 11.8N–.20 44.16E–.09 4 4.0b,3.7s **¶16339760**
IDC II 17 21 03 22.3–1.5 11.73N 44.09E 0 4.1,4.0
NEIC II 17 21 03 23.5–1.1 11.72N 44.14E 10 4.1b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.9km s-min=7.9km az=158.7.
IDC Error ellipse: s-maj=36.1km s-min=15.6km az=167.0.
NEIC Event type se. Error ellipse: s-maj=24.0km s-min=10.2km az=168.0.
ISC II 17 21 57 30.5–.79 11.7N–.10 44.11E–.08 10 3.8b 16 1-94
ISCJB II 17 21 57 29.0–.67 11.8N–.10 44.19E–.07 10 3.8b,3.8s **¶16339754**
IDC II 17 21 57 29.2–1.4 11.74N 44.12E 0 3.9,3.8
NEIC II 17 21 57 30.7–.51 11.75N 44.14E 10 4.0b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.5km s-min=8.1km az=164.3.
IDC Error ellipse: s-maj=39.8km s-min=15.6km az=165.0.
NEIC Event type se. Error ellipse: s-maj=13.8km s-min=8.9km az=169.0.
ISC II 17 23 17 37.9–1.1 11.6N–.20 44.2E–.10 10 3.8b,3.2s 11 1-63
ISCJB II 17 23 17 36.1–1.3 11.7N–.20 44.21E–.09 10 3.7b,3.2s **¶17192448**
IDC II 17 23 17 36.2–1.6 11.61N 44.15E 0 3.9,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.4km s-min=9.1km az=164.6.
IDC Error ellipse: s-maj=47.2km s-min=16.0km az=168.0.
ISC II 17 23 47 00.2–1.1 11.95N–.09 44.7E–.10 5 3.8b 13 1-62
ISCJB II 17 23 46 57.4–.97 11.8N–.10 44.8E–.10 5 3.7b,3.5s **¶17192450**
IDC II 17 23 46 59.0–7.0 11.81N 44.85E 0 3.8,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.7km s-min=8.9km az=141.0.
IDC Error ellipse: s-maj=144.7km s-min=42.8km az=36.0.
ISC II 18 00 08 55.4–1.2 11.4N–.20 44.0E–.10 10 3.7b 7 6-63
IDC II 18 00 08 54.4–4.6 11.47N 44.10E 0 3.9,3.7b **¶17192451**
ISC Event type ke.
IDC Error ellipse: s-maj=103.4km s-min=34.4km az=27.0.
ISC II 18 02 18 02.9–1.8 11.9N–.10 44.3E–.10 4 7 1-6
DHMR II 18 02 18 00.8–1.4 11.86N 44.18E 15–17 3.8L **¶601875806**
ISCJB II 18 02 18 05.4–1.7 11.9N–.10 44.4E–.10 4 3.8L
ISC Event type ke.
ISCJB Event type ke.
ISC II 18 03 02 21.6–.96 11.88N–.10 44.13E–.08 10 4.1b,3.3s 24 1-64
DHMR II 18 03 02 17.2–1.4 11.55N 44.34E 82–37 4.5L,3.3s **¶16305019**
ISCJB II 18 03 02 19.4–.66 11.83N–.06 44.16E–.05 10 3.9b,3.4s
IDC II 18 03 02 20.2–1.4 11.86N 44.06E 0 4.0,3.9
NEIC II 18 03 02 21.4–.80 11.85N 44.09E 10 4.3b,3.9
ISC Event type se.
DHMR Error ellipse: s-maj=9.3km s-min=7.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=5.2km az=139.2.
IDC Error ellipse: s-maj=37.8km s-min=14.9km az=160.0.
NEIC Event type se. Error ellipse: s-maj=19.1km s-min=9.3km az=156.0.
DHMR II 18 04 31 44.3–1.5 11.97N 44.19E 18–130 4.4L
¶601875808

DHMR Error ellipse: s-maj=68.3km s-min=25.1km az=-1.0.
ISC II 18 12 27 16.9–.92 12.0N–.10 44.12E–.08 4 4.0b,3.5s 22 1-64
DHMR II 18 12 27 07.9–1.0 11.54N 44.24E 23–14 4.3L,3.5s **¶16398479**
ISCJB II 18 12 27 14.6–.78 11.84N–.09 44.17E–.07 4 4.0b,3.6s
IDC II 18 12 27 15.1–1.4 11.65N 44.14E 0 4.2,4.0
NEIC II 18 12 27 16.4–.99 11.62N 44.18E 10 4.2b,4.0
ISC Event type se.
DHMR Error ellipse: s-maj=14.8km s-min=8.7km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=5.6km az=144.9.
IDC Error ellipse: s-maj=31.8km s-min=14.4km az=168.0.
NEIC Event type se. Error ellipse: s-maj=21.6km s-min=10.2km az=166.0.
ISC II 18 15 04 14.4–1.2 11.8N–.20 44.1E–.10 10 3.9b,3.3s 16 1-63
IDC II 18 15 04 12.0–1.6 11.59N 44.07E 0 3.9,3.8 **¶17192486**
ISCJB II 18 15 04 12.5–.92 11.8N–.10 44.12E–.08 10 3.7b,3.5s
ISC Event type ke.
ISCJB Event type ke.
IDC II 18 15 26 01.3–6.2 12.64N 45.15E 0 3.8,3.8b
¶17192488

IDC Error ellipse: s-maj=128.1km s-min=38.7km az=35.0.
ISC II 18 15 52 17.8–.95 11.9N–.20 44.05E–.09 4 3.8b 16 1-95
ISCJB II 18 15 52 16.0–.79 12.0N–.10 44.09E–.08 4 3.8b **¶17192489**
IDC II 18 15 52 17.0–1.1 11.92N 44.11E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.7km s-min=8.3km az=153.0.
IDC Error ellipse: s-maj=27.7km s-min=17.4km az=165.0.
ISC II 18 15 55 26.3–1.1 11.5N–.20 44.08E–.09 10 4.0b,3.6s 14 1-94
IDC II 18 15 55 24.7–1.2 11.52N 44.07E 0 4.0,3.9b **¶17192490**
ISCJB II 18 15 55 25.1–.94 11.6N–.20 44.13E–.07 10 3.8b,3.6s
ISC Event type ke.
ISCJB Event type ke.
IDC II 18 19 27 46.3–1.7 11.43N 44.16E 0 3.9,3.8
¶17192500

IDC Error ellipse: s-maj=47.9km s-min=15.6km az=171.0.
ISC II 18 19 29 25.2–.95 11.7N–.20 44.12E–.07 10 4.0b,3.1s 26 1-94
ISCJB II 18 19 29 23.8–.71 11.8N–.10 44.16E–.06 10 4.2b,3.1s **¶16362988**
IDC II 18 19 29 23.8–1.1 11.73N 44.10E 0 4.0,3.9
NEIC II 18 19 29 25.0–.66 11.68N 44.14E 10 4.7b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.6km s-min=7.4km az=163.5.
IDC Error ellipse: s-maj=25.5km s-min=14.3km az=170.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=8.9km az=175.0.
DHMR II 19 06 03 50.0–1.1 11.91N 44.31E 16–10 4.0L
¶601875818

DHMR Error ellipse: s-maj=13.1km s-min=13.6km az=-1.0.
ISC II 19 10 52 47.9–1.8 12.0N–.10 44.3E–.20 14 3.7b 10 1-63
IDC II 19 10 52 39.2–28 11.62N 43.26E 0 3.7,3.6 **¶17192530**
DHMR II 19 10 52 42.7–1.2 11.82N 44.24E 32–9 3.9L,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=600.4km s-min=91.8km az=57.0.
DHMR Error ellipse: s-maj=11.0km s-min=12.9km az=-1.0.
ISC II 19 11 19 44.3–.60 11.76N–.07 44.15E–.07 10 4.0b,3.6s 33 1-129
ISCJB II 19 11 19 42.5–.49 11.72N–.05 44.21E–.05 10 4.0b,3.7s **¶16398543**
DHMR II 19 11 19 42.3–1.7 11.69N 44.34E 39–12 4.5L,3.7s
IDC II 19 11 19 43.0–.88 11.66N 44.13E 0 4.1,4.0
NEIC II 19 11 19 44.4–.46 11.65N 44.12E 10 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=4.6km az=40.9.
DHMR Error ellipse: s-maj=13.5km s-min=13.2km az=-1.0.
IDC Error ellipse: s-maj=22.6km s-min=13.9km az=169.0.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.0km az=137.0.
ISC II 19 15 02 35.1–.74 11.92N–.06 44.25E–.06 10 4.0b,3.5s 26 1-94
ISCJB II 19 15 02 33.7–.59 11.81N–.05 44.32E–.05 10 3.9b,3.6s **¶16398555**
DHMR II 19 15 02 33.4–1.6 11.89N 44.35E 13–12 4.6L,3.6s
IDC II 19 15 02 33.8–.99 11.83N 44.23E 0 4.0,3.9b
NEIC II 19 15 02 35.2–.70 11.82N 44.21E 10 4.0b,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=5.0km az=41.3.
DHMR Error ellipse: s-maj=10.7km s-min=9.1km az=-1.0.
IDC Error ellipse: s-maj=28.5km s-min=17.1km az=174.0.
NEIC Event type se. Error ellipse: s-maj=19.8km s-min=12.1km az=168.0.
ISC II 21 00 39 38.3–.73 11.84N–.06 44.26E–.06 4 3.9b 25 1-64
DHMR II 21 00 39 34.8–2.1 11.85N 44.24E 3–9 4.2L **¶17192609**
ISCJB II 21 00 39 36.9–.61 11.81N–.05 44.36E–.06 4 3.7b,3.7s
IDC II 21 00 39 38.3–1.4 11.80N 44.26E 0 3.9,3.8
ISC Event type ke.
DHMR Error ellipse: s-maj=9.5km s-min=8.0km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=5.8km az=30.9.
IDC Error ellipse: s-maj=34.5km s-min=23.8km az=171.0.
DHMR II 22 03 58 11.0–2.0 11.94N 44.17E 16–35 3.6L
¶601875835

DHMR Error ellipse: s-maj=23.9km s-min=10.4km az=-1.0.
ISC II 25 22 29 51.7–.75 11.86N–.06 44.31E–.05 10 3.9b,3.4s 30 1-125
DHMR II 25 22 29 48.0–2.2 11.83N 44.29E 9–11 4.3L,3.4s **¶16363025**
ISCJB II 25 22 29 50.0–.53 11.73N–.04 44.37E–.04 10 3.9b,3.4s
IDC II 25 22 29 50.5–1.6 11.68N 44.27E 0 4.0,3.8
NEIC II 25 22 29 51.8–.65 11.65N 44.28E 10 4.2b,3.8
ISC Event type se.
DHMR Error ellipse: s-maj=10.6km s-min=8.1km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.9km az=34.4.
IDC Error ellipse: s-maj=39.9km s-min=15.0km az=165.0.
NEIC Event type se. Error ellipse: s-maj=15.1km s-min=10.0km az=168.0.

DHMR III 13 14 01 19.5–.31 12.00N 44.02E 3–3 4.0L
¶601875870

DHMR Error ellipse: s-maj=4.5km s-min=2.8km az=-1.0.
DHMR III 13 14 27 01.9–2.0 11.99N 44.07E 6–24 4.0L
¶601875872

DHMR Error ellipse: s-maj=19.3km s-min=9.4km az=-1.0.
DHMR III 13 14 32 57.8–2.2 11.81N 44.22E 15–73 4.2L
¶601875873

DHMR Error ellipse: s-maj=60.7km s-min=27.3km az=-1.0.
DHMR III 13 14 54 52.0–1.7 11.97N 44.16E 14–15 4.0L
¶601875875

DHMR Error ellipse: s-maj=14.6km s-min=9.9km az=-1.0.
DHMR III 13 15 08 37.8–1.3 11.99N 44.13E 7–16 4.2L
¶601875879

DHMR Error ellipse: s-maj=14.6km s-min=6.6km az=-1.0.

ISC	**III**	**13 15 34 59.9–.85**	**11.90N–.07**	**44.15E–.06**	**10**	**3.9b**	**28**	**1-80**
DHMR	III	13 15 34 55.5–1.2	11.87N	44.12E	10–10	4.6L		¶16409266
ISCJB	III	13 15 34 57.8–.66	11.82N–.05	44.18E–.05	10	4.5s,3.8b		
IDC	III	13 15 34 58.4–1.5	11.77N	44.05E	0	4.3s,4.3		
NEIC	III	13 15 35 00.2–.94	11.87N	44.01E	10	4.9b,4.3		

ISC Event type se.
DHMR Error ellipse: s-maj=7.4km s-min=5.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.2km az=137.9.
IDC Error ellipse: s-maj=37.5km s-min=15.2km az=162.0.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=11.3km az=151.0.
DHMR III 13 15 48 42.5–2.2 11.84N 44.14E 14–17 4.1L
¶601875885

DHMR Error ellipse: s-maj=17.1km s-min=13.4km az=-1.0.
DHMR III 13 16 02 31.6–.98 11.89N 44.07E 2–3 3.6L
¶601875886

DHMR Error ellipse: s-maj=7.8km s-min=5.8km az=-1.0.
IDC III 13 16 19 29.0–2.7 11.24N 44.10E 0 3.8,3.6
¶17194917

IDC Error ellipse: s-maj=77.9km s-min=19.9km az=3.0.

ISC	**III**	**13 16 20 39.7–1.5**	**11.8N–.30**	**44.1E–.10**	**4**	**3.8b**	**10**	**1-63**
ISCJB	III	13 16 20 37.9–1.3	11.8N–.20	44.2E–.10	4	3.7b		¶17194918
IDC	III	13 16 20 39.2–1.6	11.76N	44.22E	0	3.8,3.7b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.3km s-min=8.8km az=158.8.
IDC Error ellipse: s-maj=46.2km s-min=18.5km az=162.0.

ISC	**III**	**13 16 44 00.1–1.1**	**11.9N–.10**	**44.09E–.08**	**4**	**3.9b**	**15**	**1-53**
DHMR	III	13 16 43 57.6–.72	11.95N	44.09E	4–10	4.1L		¶17194924
ISCJB	III	13 16 43 58.5–.84	11.87N–.06	44.13E–.06	4	3.7b,3.5s		
IDC	III	13 16 43 59.4–1.6	11.76N	44.06E	0	3.8,3.8		

ISC Event type ke.
DHMR Error ellipse: s-maj=8.4km s-min=4.5km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=5.9km az=140.5.
IDC Error ellipse: s-maj=40.7km s-min=17.2km az=161.0.
DHMR III 13 17 25 06.5–.99 12.00N 44.04E 6–20 4.0L
¶601875895

DHMR Error ellipse: s-maj=14.3km s-min=5.8km az=-1.0.
DHMR III 13 18 02 14.4–.77 11.94N 44.09E 15–75 3.5L
¶601875897

DHMR Error ellipse: s-maj=39.3km s-min=15.6km az=-1.0.
DHMR III 13 19 29 17.4–1.2 11.87N 44.15E 12–11 3.7L
¶601875905

DHMR Error ellipse: s-maj=10.6km s-min=9.3km az=-1.0.

ISC	**III**	**13 20 16 44.8–.63**	**11.94N–.05**	**44.13E–.05**	**10**	**4.1b**	**47**	**1-94**
ISCJB	III	13 20 16 42.8–.49	11.81N–.04	44.18E–.04	10	4.0b		¶16477616
CSEM	III	13 20 16 43.8–.40	11.88N	44.08E	2	4.1b		
IDC	III	13 20 16 43.1–.99	11.86N	44.05E	0	4.1,4.0b		
NEIC	III	13 20 16 44.4–.61	11.90N	44.09E	10	4.1b,4.0b		
DHMR	III	13 20 16 44.9–1.5	12.01N	44.19E	13–7	4.7L,4.0b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=4.6km az=44.5.
CSEM Event type ke. Error ellipse: s-maj=17.2km s-min=11.3km az=126.0.
IDC Error ellipse: s-maj=24.9km s-min=13.8km az=160.0.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=9.5km az=131.0.
DHMR Error ellipse: s-maj=7.3km s-min=5.8km az=-1.0.

ISC	**III**	**13 20 18 02.9–.93**	**11.8N–.20**	**44.17E–.09**	**4**	**4.1b**	**10**	**1-63**
IDC	III	13 20 18 03.5–1.2	12.00N	44.20E	0	4.0,4.0		¶17194974

ISC Event type ke.
IDC Error ellipse: s-maj=37.9km s-min=20.0km az=141.0.

ISC	**III**	**14 00 29 15.8–1.7**	**11.8N–.10**	**44.2E–.10**	**4–19**		**14**	**1-6**
DHMR	III	14 00 29 17.8–1.9	12.01N	44.06E	6–22	4.1L		¶601875914

ISC Event type ke.
DHMR Error ellipse: s-maj=17.9km s-min=8.6km az=-1.0.

ISC	**III**	**15 13 28 22.2–2.1**	**11.9N–.10**	**44.15E–.09**	**14–17**		**17**	**1-3**
DHMR	III	15 13 28 20.2–1.6	11.91N	44.06E	14–42	3.8L		¶601124004
ARO	III	15 13 28 24.8	12N–59	44E–12	15–99	3.7L		

ISC Event type ke.
DHMR III 15 21 12 29.6–1.8 11.98N 44.06E 10–20 4.0L
¶601875921

DHMR Error ellipse: s-maj=16.5km s-min=8.0km az=-1.0.
DHMR III 21 03 27 07.1–1.5 11.84N 44.05E 13–25 4.0L
¶601875933

DHMR Error ellipse: s-maj=23.3km s-min=8.3km az=-1.0.
DHMR III 26 07 05 38.4–1.9 11.92N 44.01E 13–28 4.0L
¶601875944

DHMR Error ellipse: s-maj=33.9km s-min=25.8km az=-1.0.
IDC III 30 01 18 10.4–2.4 11.76N 44.11E 0 3.6,3.6
¶17199135

IDC Error ellipse: s-maj=57.1km s-min=13.2km az=159.0.

ISC	**III**	**30 01 27 51.7–.57**	**11.91N–.06**	**44.09E–.06**	**4**	**4.2b**	**61**	**1-95**
BJI	III	30 01 27 49.9	11.69N	44.19E	6	4.9b,4.6b		¶16392156
DHMR	III	30 01 27 49.4–1.5	11.97N	44.06E	15–13	4.7L,4.6b		
ISCJB	III	30 01 27 50.1–.41	11.90N–.04	44.07E–.05	4	4.3s,4.2b		
IDC	III	30 01 27 51.4–.92	11.83N	44.07E	0	4.1,4.0		
NEIC	III	30 01 27 52.4–.41	11.83N	44.05E	10	4.4b,4.0		

ISC Event type se.
DHMR Error ellipse: s-maj=11.7km s-min=8.9km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.1km az=41.0.
IDC Error ellipse: s-maj=21.0km s-min=14.0km az=164.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.7km az=156.0.
DHMR III 31 12 30 10.5–1.3 11.86N 44.03E 12–11 3.9L
¶601875963

DHMR Error ellipse: s-maj=11.6km s-min=8.7km az=-1.0.
DHMR IV 19 08 57 09.4–1.5 11.99N 44.03E 15–14 4.3L
¶601875990

DHMR Error ellipse: s-maj=12.4km s-min=9.1km az=-1.0.
DHMR IV 19 09 26 43.6–1.6 11.92N 44.20E 16–17 4.2L
¶601875995

DHMR Error ellipse: s-maj=13.8km s-min=10.4km az=-1.0.

ISC	**IV**	**19 09 37 53.6–1.2**	**11.86N–.05**	**44.06E–.05**	**1–7**	**4.4b,4.0s**	**253**	**1-97**
DHMR	IV	19 09 37 49.8–1.4	11.93N	44.05E	8–14	4.8L,4.0s		¶16449048
BJI	IV	19 09 37 50.1	11.61N	43.75E	8	5.0b,4.6b		
IDC	IV	19 09 37 53.0–.82	11.78N	43.99E	0	4.2,4.1b		
CSEM	IV	19 09 37 54.1–.25	11.85N	44.10E	2	4.6b,4.1b		
ARO	IV	19 09 37 54.5	12N–12	44E–10	7–25	4.5L,4.1b		
NEIC	IV	19 09 37 54.8–.44	11.82N	44.02E	10	4.7b,4.1b		
OMAN	IV	19 09 37 55.7–.49	11.90N	44.18E	11	4.7b,4.1b		
MOS	IV	19 09 37 55.1–.95	11.83N	44.01E	22	4.6b,4.0s		
DSN	IV	19 09 37 57.1–1.8	12.01N	44.07E	14	4.7b,4.0s		

ISC Event type ke.
DHMR Error ellipse: s-maj=12.6km s-min=7.4km az=-1.0.
IDC Error ellipse: s-maj=18.4km s-min=12.4km az=157.0.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=7.8km az=173.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.1km az=153.0.
OMAN Error ellipse: s-maj=27.0km s-min=12.0km az=340.0.
MOS Error ellipse: s-maj=11.3km s-min=5.1km az=88.7.
DSN Error ellipse: s-maj=28.0km s-min=16.4km az=178.0.

DHMR IV 19 09 50 24.7–.58 11.98N 44.01E 8–11 3.7L
¶601875998

DHMR Error ellipse: s-maj=8.5km s-min=3.2km az=-1.0.

ISC	**IV**	**28 06 36 58.5–.97**	**11.88N–.10**	**44.02E–.10**	**4**	**3.9b**	**18**	**1-63**
ISCJB	IV	28 06 36 56.6–.74	11.84N–.06	44.07E–.09	4	3.8b,3.5s		¶17202286
IDC	IV	28 06 36 57.8–1.9	11.87N	44.05E	0	4.0,3.8		
DHMR	IV	28 06 36 59.8–1.2	12.11N	44.25E	8–19	4.7L,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.1km az=12.6.
IDC Error ellipse: s-maj=45.4km s-min=21.6km az=178.0.
DHMR Error ellipse: s-maj=13.8km s-min=31.3km az=-1.0.

ISC	**IV**	**28 06 39 25.0–1.8**	**12.0N–.30**	**44.1E–.20**	**4**	**3.9b,3.1s**	**9**	**1-63**
ISCJB	IV	28 06 39 23.2–1.6	12.0N–.30	44.2E–.10	4	3.8b,3.2s		¶17202287
IDC	IV	28 06 39 24.5–2.0	11.99N	44.12E	0	3.9,3.8b		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.0km s-min=20.0km az=179.7.
IDC Error ellipse: s-maj=46.6km s-min=24.8km az=2.0.

ISC	**VI**	**02 23 50 04.9–1.6**	**11.9N–.10**	**44.1E–.10**	**4**	**3.5b**	**19**	**2-63**
IDC	VI	02 23 50 02.6–7.7	11.49N	44.16E	0	3.8,3.7		¶17205046
CSEM	VI	02 23 50 03.5	12.01N	44.11E	8	4.1L,3.7		
DHMR	VI	02 23 50 03.5–.87	12.01N	44.11E	8–11	4.1L,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=166.4km s-min=43.8km az=34.0.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
DHMR Error ellipse: s-maj=8.9km s-min=5.5km az=-1.0.

ISC	**VI**	**02 23 58 46.5–.89**	**11.94N–.08**	**44.11E–.07**	**4**	**4.0b**	**41**	**1-81**
DHMR	VI	02 23 58 40.6–1.4	11.85N	44.04E	7–15	4.4L		¶16713149
ISCJB	VI	02 23 58 44.3–.59	11.88N–.05	44.08E–.06	4	4.6s,3.9b		
IDC	VI	02 23 58 45.4–1.4	11.79N	44.05E	0	4.0,3.9		
NEIC	VI	02 23 58 46.2–.84	11.67N	44.04E	10	4.0b,3.9		
CSEM	VI	02 23 58 46.2–.42	11.96N	43.97E	2	4.0b,3.9		

ISC Event type ke.
DHMR Error ellipse: s-maj=14.3km s-min=8.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=9.0km s-min=6.2km az=31.9.
IDC Error ellipse: s-maj=33.7km s-min=11.0km az=160.0.
NEIC Event type se. Error ellipse: s-maj=19.7km s-min=9.2km az=167.0.
CSEM Event type ke. Error ellipse: s-maj=17.2km s-min=11.2km az=139.0.

(560) Northwestern Somalia.

IDC II 18 17 30 19.5–26 10.96N 43.01E 0 3.5,3.3
¶17192496

IDC Error ellipse: s-maj=556.3km s-min=76.2km az=56.0.

(567) Zaire.

ISC	**V**	**02 05 52 39.3–.58**	**8.59S–.05**	**27.63E–.10**	**10**	**4.0b,3.2s**	**27**	**5-120**
ISCJB	V	02 05 52 37.8–.46	8.54S–.04	27.5E–.10	10	3.9b,3.2s		¶16708559
IDC	V	02 05 52 38.6–.82	8.47S	27.58E	0	4.1,4.0		
LSZ	V	02 05 52 40.4–.92	8.12S	27.36E	26	4.1,4.0		
NEIC	V	02 05 52 40.1–.35	8.47S	27.70E	10	4.3b,4.0		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=5.8km az=10.7.
IDC Error ellipse: s-maj=33.7km s-min=16.8km az=98.0.
LSZ Error ellipse: s-maj=15.8km s-min=47.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=6.0km az=97.0.

(568) Uganda.

ISC	**I**	**17 08 22 27.2–.40**	**1.50N–.05**	**30.82E–.05**	**10**	**4.6b,4.1s**	**168**	**2-131**
ISCJB	I	17 08 22 25.7–.27	1.56N–.04	30.74E–.04	10	4.6b,4.1s		¶15931204
IDC	I	17 08 22 25.7–.63	1.58N	30.81E	0	4.4L,4.3		
MOS	I	17 08 22 26.1–1.1	1.56N	30.76E	13	4.6b,4.0s		
NEIC	I	17 08 22 27.6–.33	1.60N	30.77E	10	4.8b,4.0s		
BJI	I	17 08 22 30.8	2.07N	31.40E	14	5.2b,4.9s		

ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.5km s-min=4.6km az=151.7.
IDC Error ellipse: s-maj=16.2km s-min=14.4km az=71.0.
MOS Error ellipse: s-maj=13.5km s-min=5.5km az=88.3.
NEIC Event type fe. Error ellipse: s-maj=8.6km s-min=7.4km az=104.0. Felt at Beni. Also felt at Hoima, Mpigi and Wakiso, Uganda.

ISC	**III**	**15 03 25 19.2–.33**	**1.63N–.04**	**31.28E–.04**	**10**	**5.0b,4.5s**	**186**	**5-131**
IDC	III	15 03 25 17.2–.48	1.73N	31.22E	0	4.6b,4.6		¶16359833
ISCJB	III	15 03 25 17.4–.22	1.74N–.03	31.17E–.04	10	5.0b,4.5s		
MOS	III	15 03 25 17.4–1.2	1.78N	31.24E	10	5.2b,4.5s		
NEIC	III	15 03 25 19.4–.22	1.75N	31.23E	10	5.1b,4.5s		
BJI	III	15 03 25 19.5	2.12N	31.42E	10	5.2b,5.1s		
GCMT	III	15 03 25 19.4–.20	1.89N	31.02E	22–0	5.0W,5.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=15.8km s-min=11.8km az=111.0.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=4.6km az=13.4.
MOS Error ellipse: s-maj=11.5km s-min=6.7km az=76.3.
NEIC Event type fe. Error ellipse: s-maj=7.7km s-min=5.2km az=109.0. Felt [IV] at Masindi, [III] at Gulu and [II] at Entebbe and Kampala. Also felt at Fort Portal, Hoima, Iganga, Jinja, Lira, Luwero, Mpigi, Mubende, Namasuba, Tororo and Wakiso.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s48,c63; s78,c110; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.50±.20 $M_{\theta\theta}$2.70±.12; $M_{\phi\phi}$0.79±.15; $M_{r\theta}$1.34±.19; $M_{\theta\phi}$2.08±.09; $M_{\phi r}$0.68±.27; Best double couple: NP1:ϕ240.00000°,δ56.00000°,λ-87.00000°. NP2:ϕ54.00000°,δ34.00000°,λ-95.00000°. Principal axes: T 4.3210,Plg11.0000°,Azm328.0000°; N -0.5310,Plg3.0000°,Azm58.0000°; P -3.7920,Plg79.0000°,Azm161.0000° $M_0$4.05700×10^{16}

(570) Kenya.

ISC	**I**	**17 22 29 47.3–.86**	**0.4N–.10**	**36.18E–.10**	**10**	**3.8s,3.6b**	**11**	**2-98**
ISCJB	I	17 22 29 45.3–.63	0.40N–.09	36.18E–.07	10	3.7s,3.7b		¶17190432
IDC	I	17 22 29 46.5–.85	0.55N	36.20E	0	3.9,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=9.6km az=4.9.
IDC Error ellipse: s-maj=28.6km s-min=12.2km az=58.0.

ISC	**V**	**29 03 08 40.2–.65**	**2.41S–.06**	**39.51E–.06**	**10**	**4.0b,3.3s**	**28**	**3-72**
ISCJB	V	29 03 08 37.3–.45	2.54S–.05	39.58E–.05	10	3.9b,3.3s		¶16632927
IDC	V	29 03 08 38.1–1.0	2.50S	39.57E	0	4.0L,3.9		
NEIC	V	29 03 08 39.7–.43	2.51S	39.50E	10	4.0b,3.9		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.1km az=137.4.
IDC Error ellipse: s-maj=23.3km s-min=20.5km az=122.0.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.6km az=104.0.

(572) Lake Tanganyika region.

ISC	**III**	**19 19 44 10.1–.49**	**7.70S–.06**	**30.53E–.07**	**18**	**4.0b**	**33**	**5-72**
ISCJB	III	19 19 44 07.1–.48	7.71S–.05	30.48E–.07	18	3.8b		¶17197312
IDC	III	19 19 44 10.7–.62	7.63S	30.38E	24–2	4.0,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.7km s-min=6.1km az=32.3.
IDC Error ellipse: s-maj=20.7km s-min=12.5km az=102.0.

ISC	**III**	**22 02 14 58.0–.93**	**9.03S–.08**	**29.4E–.10**	**10**		**15**	**6-73**
ISCJB	III	22 02 14 56.0–.81	9.04S–.08	29.43E–.09	10	3.6b		¶16450714
IDC	III	22 02 14 57.4–1.6	8.92S	29.30E	0	4.1L,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.4km s-min=6.7km az=38.7.
IDC Error ellipse: s-maj=34.6km s-min=17.1km az=99.0.

ISC	**IV**	**03 04 37 59.9–.40**	**3.61S–.05**	**29.75E–.05**	**10**	**4.6b,3.9s**	**113**	**7-129**
BJI	IV	03 04 37 55.2	4.36S	29.37E	10	4.9b,4.9b		¶16404925
IDC	IV	03 04 37 56.9–.55	3.52S	29.50E	0	4.4,4.3		
ISCJB	IV	03 04 37 57.8–.26	3.69S–.04	29.52E–.06	10	4.6b,3.8s		
NEIC	IV	03 04 37 59.5–.38	3.64S	29.60E	10	4.7b,3.8s		

ISC Event type fe.
IDC Error ellipse: s-maj=18.6km s-min=10.9km az=93.0.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=5.3km az=3.8.
NEIC Event type fe. Error ellipse: s-maj=12.2km s-min=7.9km az=87.0. Felt [IV] at Bujumbura. Felt [II] at Kigali, Rwanda. Also felt at Butare. Felt at Kabare, Congo.

ISC	**IV**	**29 11 27 00.4–1.1**	**4.8S–.10**	**30.1E–.10**	**10**	**3.5b,3.2s**	**7**	**6-44**
ISCJB	IV	29 11 26 58.3–.93	4.8S–.10	30.15E–.10	10	3.5b,3.2s		¶17202374

IDC IV 29 11 26 58.9–1.4 4.85S 30.16E 0 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.3km s-min=11.7km az=145.1.
IDC Error ellipse: s-maj=30.7km s-min=22.0km az=129.0.
ISC V 01 16 05 24.0–1.3 4.7S–.10 28.53E–.09 10 3.7b 9 7-70
ISCJB V 01 16 05 22.4–1.2 4.6S–.10 28.6E–.10 10 3.5b ¶17202532
IDC V 01 16 05 22.3–1.5 4.68S 28.60E 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.2km s-min=14.8km az=147.6.
IDC Error ellipse: s-maj=40.0km s-min=24.7km az=128.0.
ISC VI 15 20 50 19.7–1.1 7.6S–.10 30.8E–.10 10 3.7b 9 5-71
IDC VI 15 20 50 18.1–1.4 7.57S 30.72E 0 4.5L,3.9 ¶16725681
ISC Event type ke.
IDC Error ellipse: s-maj=35.8km s-min=23.0km az=125.0.

(573) Tanzania.

IDC I 19 08 13 16.2–2.5 5.44S 36.15E 0 3.9L,3.7
¶17190538
IDC Error ellipse: s-maj=53.0km s-min=28.9km az=127.0.
ISC I 19 18 55 40.0–.90 5.54S–.09 35.67E–.09 10 3.7b 11 5-67
ISCJB I 19 18 55 37.9–.76 5.53S–.07 35.62E–.08 10 3.7b ¶16151869
IDC I 19 18 55 38.2–1.2 5.54S 35.71E 0 4.1L,3.8
NEIC I 19 18 55 39.8–.67 5.60S 35.68E 10 4.1b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.3km az=12.3.
IDC Error ellipse: s-maj=21.9km s-min=17.0km az=115.0.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=10.0km az=116.0.
ISC II 07 04 29 20.7–.87 10.0S–.20 33.3E–.30 10 12 2-71
IDC II 07 04 29 15.7–3.1 10.34S 32.82E 0 3.9L,3.7 ¶17191845
BUL II 07 04 29 25.0–1.7 10.10S 33.60E 168–377 4.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=415.9km s-min=24.7km az=114.0.
BUL Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC II 21 23 59 18.3–.48 4.64S–.04 35.65E–.06 10 4.3b 45 2-71
ISCJB II 21 23 59 16.9–.34 4.55S–.03 35.61E–.06 10 4.1b ¶16398701
IDC II 21 23 59 17.5–.61 4.62S 35.70E 0 4.6L,4.2
NEIC II 21 23 59 18.6–.31 4.62S 35.70E 10 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.6km az=171.1.
IDC Error ellipse: s-maj=15.6km s-min=10.6km az=79.0.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=5.8km az=102.0.
ISC IV 15 08 49 33.0–.29 4.27S–.04 35.71E–.07 10 4.8b,4.0s 253 2-147
BJI IV 15 08 49 25.4 4.80S 34.82E 10 5.0b,4.8b ¶16436936
ISCJB IV 15 08 49 31.3–.20 4.22S–.03 35.67E–.04 10 4.8b,4.0s
IDC IV 15 08 49 31.6–.43 4.22S 35.70E 0 4.6,4.5L
MOS IV 15 08 49 31.5–.90 4.17S 35.75E 10 4.9b,4.5L
NEIC IV 15 08 49 33.3–.15 4.25S 35.74E 10 4.9b,4.5L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.7km s-min=4.5km az=3.3.
IDC Error ellipse: s-maj=14.8km s-min=10.4km az=99.0.
MOS Error ellipse: s-maj=11.9km s-min=5.4km az=85.0.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.0km az=95.0. Felt [III] at Arusha. Also felt at Babati, Dodoma and Moshi. Felt [II] at Nairobi, Kenya. Also felt at Mombasa.
ISC IV 19 17 12 20.3–.92 5.50S–.06 35.7E–.20 10 3.8b 9 1-72
ISCJB IV 19 17 12 18.8–.83 5.48S–.06 35.6E–.10 10 3.7b ¶17201525
IDC IV 19 17 12 19.6–1.3 5.10S 34.90E 0 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.3km s-min=8.2km az=2.5.
IDC Error ellipse: s-maj=153.2km s-min=19.2km az=118.0.
ISC VI 10 08 28 13.5–.41 6.99S–.05 39.55E–.06 10 4.6b,4.0s 65 4-143
ISCJB VI 10 08 28 11.6–.32 7.02S–.04 39.60E–.05 10 4.4b,4.0s ¶16583948
IDC VI 10 08 28 11.9–.62 6.97S 39.73E 0 4.4,4.4L
BJI VI 10 08 28 12.9 7.10S 39.60E 10 5.0b,4.8b
NEIC VI 10 08 28 13.4–.35 7.08S 39.64E 10 4.8b,4.8b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=7.1km s-min=5.9km az=43.4.
IDC Error ellipse: s-maj=20.6km s-min=14.6km az=104.0.
NEIC Event type fe. Error ellipse: s-maj=10.9km s-min=7.0km az=103.0. Felt [III] at Dar es Salaam. Also felt at Mkuranga and Zanzibar.
IDC VI 24 15 54 31.4–2.7 8.26S 32.30E 0 4.2s,4.2
¶17206879
IDC Error ellipse: s-maj=69.6km s-min=29.5km az=156.0.

(576) Zambia.

ISC IV 26 18 50 53.9–1.0 11.1S–.20 32.9E–.20 10 10 6-72
ISCJB IV 26 18 50 52.1–.77 11.1S–.10 33.1E–.20 10 3.4b ¶17202177
IDC IV 26 18 50 52.1–1.5 10.92S 32.89E 0 3.9,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.5km s-min=6.8km az=36.7.
IDC Error ellipse: s-maj=94.4km s-min=19.4km az=121.0.
ISC V 21 15 58 54.2–1.3 10.2S–.20 32.6E–.50 10 9 5-72
IDC V 21 15 58 53.2–1.5 10.85S 34.07E 0 3.8b,3.7 ¶17204147
ISC Event type ke.
IDC Error ellipse: s-maj=263.9km s-min=13.6km az=114.0.

(577) Malawi.

ISC III 08 20 31 38.2–.44 11.36S–.05 34.50E–.06 10 4.0b,3.8s 50 5-144
ISCJB III 08 20 31 36.5–.35 11.35S–.05 34.40E–.06 10 4.0b,3.8s ¶16403018
IDC III 08 20 31 37.2–.71 11.35S 34.39E 0 4.2L,4.1
NEIC III 08 20 31 38.5–.32 11.37S 34.41E 10 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.0km az=33.2.
IDC Error ellipse: s-maj=21.7km s-min=12.9km az=128.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.4km az=114.0.

(578) Namibia.

ISC II 12 23 03 28.8–2.8 24.3S–.10 16.0E–.20 10 10 6-12
PRE II 12 23 03 27.0–3.6 23.95S 16.65E 5 3.9L ¶16022717
ISC Event type ke.
PRE Error ellipse: s-maj=29.2km s-min=31.5km az=-1.0.
PRE V 04 12 44 08.5–.49 28.24S 16.47E 5 3.6L
¶601191534
PRE Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0.

(579) Botswana.

PRE VI 17 17 29 41.7–1.4 20.98S 26.46E 5 4.0L
¶601654355
PRE Error ellipse: s-maj=9.9km s-min=5.6km az=-1.0.

(581) Mozambique.

ISC IV 21 12 43 35.3–3.0 21.6S–.10 33.0E–.10 15 15 3-13
PRE IV 21 12 43 27.6–2.8 21.35S 33.39E 5 4.2L ¶16503248
ISC Event type ke.
PRE Error ellipse: s-maj=16.9km s-min=16.4km az=-1.0.
ISC V 02 12 05 13.7–2.7 21.33S–.10 32.9E–.10 14 11 3-10
PRE V 02 12 05 08.6–1.2 21.15S 33.47E 10 3.9L ¶601191510
ISC Event type ke.
PRE Error ellipse: s-maj=9.4km s-min=9.4km az=-1.0.

(582) Mozambique Channel.

ISC VI 14 01 00 56.3–.71 17.8S–.10 41.98E–.07 10 3.5b 14 5-147
ISCJB VI 14 01 00 55.2–.65 17.8S–.10 41.89E–.08 10 3.4b ¶17206077
IDC VI 14 01 00 55.2–.88 17.78S 41.88E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=10.5km az=166.6.
IDC Error ellipse: s-maj=25.8km s-min=18.0km az=157.0.

(584) South Africa.

PRE I 01 09 15 33.4–2.0 28.65S 20.38E 5 3.5L
¶15902532
PRE Error ellipse: s-maj=7.2km s-min=6.2km az=-1.0.

PRE I 02 12 52 54.8–.64 28.70S 20.48E 5 3.5L
¶601190811
PRE Error ellipse: s-maj=3.8km s-min=2.8km az=-1.0.
PRE I 04 11 41 26.5–1.3 28.79S 20.50E 5 4.3L
¶15905602
PRE Error ellipse: s-maj=3.7km s-min=3.6km az=-1.0.
IDC I 05 16 03 59.5–1.8 27.12S 26.69E 0 3.7,3.7
¶17189519
IDC Error ellipse: s-maj=32.0km s-min=16.0km az=114.0.
ISC I 07 12 56 42.3–1.5 28.63S–.04 20.40E–.04 18–7 52 1-85
PRE I 07 12 56 41.3–1.7 28.63S 20.36E 5 4.7L ¶15910766
NEIC I 07 12 56 42.1 28.80S 20.48E 5 4.1b,4.0L
ISC Event type se.
PRE Error ellipse: s-maj=4.8km s-min=4.5km az=-1.0.
NEIC Event type se. After PRE.
PRE I 07 21 00 19.0–1.6 28.77S 20.44E 5 3.6L
¶15910771
PRE Error ellipse: s-maj=5.5km s-min=5.2km az=-1.0.
PRE I 11 05 31 53.6–1.9 28.78S 20.42E 5 3.7L
¶601190854
PRE Error ellipse: s-maj=6.2km s-min=5.7km az=-1.0.
PRE I 12 00 09 50.2–2.3 28.65S 20.43E 5 3.8L
¶601190864
PRE Error ellipse: s-maj=7.0km s-min=6.6km az=-1.0.
ISC I 12 06 14 21.9–.50 28.63S–.04 20.40E–.04 10 4.3b,3.5s 48 1-144
ISCJB I 12 06 14 20.5–.35 28.65S–.03 20.43E–.03 10 4.2b,3.5s ¶16151134
NEIC I 12 06 14 20.9 28.70S 20.36E 5 4.2L,3.5s
PRE I 12 06 14 21.0–2.4 28.69S 20.35E 5 4.9L,3.5s
IDC I 12 06 14 21.0–.67 28.65S 20.30E 0 4.3,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.8km az=159.8.
NEIC Event type se. After PRE.
PRE Error ellipse: s-maj=6.7km s-min=6.4km az=-1.0.
IDC Error ellipse: s-maj=20.6km s-min=14.9km az=82.0.
ISC I 13 17 36 57.4–1.4 28.61S–.04 20.40E–.04 18–7 4.3b 57 1-85
NEIC I 13 17 36 55.9 28.71S 20.40E 5 4.4b,4.1L ¶15931463
IDC I 13 17 36 55.4–1.3 28.64S 20.36E 0 4.3,4.3
PRE I 13 17 36 56.3–2.2 28.75S 20.45E 5 4.7L,4.3
ISC Event type se.
NEIC Event type se. After PRE.
IDC Error ellipse: s-maj=23.7km s-min=19.1km az=61.0.
PRE Error ellipse: s-maj=8.1km s-min=7.0km az=-1.0.
PRE I 18 11 37 36.6–1.8 26.99S 29.04E 5 3.9L
¶15940658
PRE Error ellipse: s-maj=3.8km s-min=3.8km az=-1.0.
PRE I 19 03 49 08.8–1.5 28.93S 20.59E 5 4.4L
¶15940663
PRE Error ellipse: s-maj=4.0km s-min=4.1km az=-1.0.
PRE I 23 20 44 02.3–1.5 28.65S 20.39E 5 3.8L
¶16014218
PRE Error ellipse: s-maj=5.6km s-min=4.7km az=-1.0.
ISC I 25 02 39 53.4–.62 28.73S–.05 20.41E–.04 10 4.1b,3.6s 35 1-145
ISCJB I 25 02 39 52.2–.45 28.80S–.04 20.44E–.04 10 4.0b,3.6s ¶16014267
PRE I 25 02 39 52.4–2.4 28.76S 20.43E 5 4.9L,3.6s
NEIC I 25 02 39 53.8 28.72S 20.40E 5 4.4L,4.4b
IDC I 25 02 39 54.1–1.4 28.43S 20.58E 0 4.0,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.5km az=150.5.
PRE Error ellipse: s-maj=6.9km s-min=6.8km az=-1.0.
NEIC Event type se. After PRE.
IDC Error ellipse: s-maj=30.0km s-min=17.6km az=20.0.
PRE I 28 01 29 06.6–2.0 28.51S 20.36E 5 4.1L
¶16014296
PRE Error ellipse: s-maj=7.4km s-min=5.7km az=-1.0.
IDC I 28 08 07 17.5–6.6 25.62S 28.70E 0 2.6,2.6
¶17191183
IDC Error ellipse: s-maj=63.3km s-min=32.3km az=43.0.
PRE I 30 05 18 34.0–.79 28.38S 20.32E 5 3.5L
¶16014333
PRE Error ellipse: s-maj=3.8km s-min=2.7km az=-1.0.
ISC II 03 08 11 27.0–1.3 24.96S–.05 27.4E–.10 7 11 1-5
ISCJB II 03 08 11 25.1–1.2 24.82S–.04 27.4E–.20 7 ¶601190955
PRE II 03 08 11 27.6–1.2 24.98S 27.45E 2 2.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.8km s-min=6.1km az=3.9.
PRE Error ellipse: s-maj=7.2km s-min=10.1km az=-1.0.
PRE II 05 05 47 39.5–1.3 28.88S 20.58E 5 3.5L
¶601190971
PRE Error ellipse: s-maj=4.7km s-min=5.8km az=-1.0.
ISC II 05 08 22 37.7–.91 28.78S–.06 20.47E–.05 10 23 0-11
PRE II 05 08 22 37.7–2.7 28.70S 20.41E 5 4.3L ¶601190976
ISCJB II 05 08 22 38.0–.72 28.86S–.06 20.48E–.05 10 4.3L
ISC Event type ke.
ISCJB Event type ke.
ISC II 09 13 22 25.7–1.0 28.78S–.08 20.56E–.06 10 15 1-11
ISCJB II 09 13 22 25.7–.74 28.85S–.06 20.57E–.05 10 ¶16018370
PRE II 09 13 22 25.4–2.2 28.79S 20.54E 5 4.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=5.3km az=145.4.
PRE Error ellipse: s-maj=7.4km s-min=6.2km az=-1.0.
PRE II 11 07 52 35.8–2.0 28.77S 20.49E 5 4.0L
¶16022713
PRE Error ellipse: s-maj=6.5km s-min=5.4km az=-1.0.
PRE II 11 07 58 52.7–1.5 28.76S 20.44E 5 3.6L
¶16022714
PRE Error ellipse: s-maj=7.3km s-min=5.1km az=-1.0.
ISC II 14 00 47 28.0–.79 26.39S–.04 27.51E–.03 13–5 33 0-47
ISCJB II 14 00 47 27.4–.41 26.39S–.03 27.56E–.03 17–3 3.9b ¶16025684
PRE II 14 00 47 27.5–3.1 26.45S 27.54E 2 3.0L
IDC II 14 00 47 27.9–3.4 26.40S 27.45E 0 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.2km az=149.1.
PRE Error ellipse: s-maj=5.3km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=63.4km s-min=16.6km az=112.0.
ISC II 21 21 19 12.9–.45 28.61S–.04 20.46E–.05 10 4.4b,3.4s 67 1-146
ISCJB II 21 21 19 11.2–.33 28.72S–.04 20.57E–.03 10 4.4b,3.4s ¶16398693
PRE II 21 21 19 11.8–2.2 28.80S 20.50E 5 4.7L,3.4s
IDC II 21 21 19 11.8–.88 28.66S 20.31E 0 4.3,4.2
NEIC II 21 21 19 12.7–.33 28.59S 20.36E 5 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.0km az=156.8.
PRE Error ellipse: s-maj=6.1km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=24.8km s-min=18.5km az=65.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.7km az=97.0.
ISC III 01 03 23 29.1–1.1 28.7S–.10 20.50E–.06 10 12 0-11
ISCJB III 01 03 23 27.6–.77 28.7S–.10 20.43E–.05 10 ¶16449391
PRE III 01 03 23 28.2–1.4 28.91S 20.54E 5 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.6km s-min=5.6km az=165.5.
PRE Error ellipse: s-maj=9.8km s-min=6.1km az=-1.0.
PRE III 09 08 52 44.6–1.5 28.64S 20.43E 5 3.9L
¶601191177
PRE Error ellipse: s-maj=5.7km s-min=3.9km az=-1.0.
ISC III 09 21 35 44.0–1.0 26.88S–.03 26.66E–.03 3–7 4.4b 70 0-145
PRE III 09 21 35 43.4–2.5 26.86S 26.69E 2 4.3L ¶16449422
ISCJB III 09 21 35 43.2–.44 26.91S–.03 26.65E–.03 9–2 4.6b
IDC III 09 21 35 44.3–.75 26.89S 26.63E 0 4.5,4.4
NEIC III 09 21 35 45.1–.37 26.82S 26.59E 5 4.7b,4.4
ISC Event type se.
PRE Error ellipse: s-maj=4.6km s-min=3.6km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=3.6km az=147.4.

IDC Error ellipse: s-maj=16.1km s-min=11.5km az=98.0.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.8km az=122.0.
ISC III 10 12 56 08.0–1.7 25.83S–.07 28.8E–.10 3 15 3-47
ISCJB III 10 12 56 05.0–1.8 25.89S–.08 28.9E–.20 3 3.4b ¶17193627
IDC III 10 12 56 06.4–2.5 26.06S 29.08E 0 3.4b,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.5km s-min=8.0km az=19.7.
IDC Error ellipse: s-maj=28.5km s-min=20.0km az=123.0.
ISC III 11 23 58 51.7–.96 28.73S–.08 20.49E–.05 10 23 0-45
ISCJB III 11 23 58 50.3–.68 28.79S–.07 20.54E–.05 10 3.9b ¶16425308
PRE III 11 23 58 51.3–2.0 28.76S 20.51E 5 4.3L
IDC III 11 23 58 54.2–4.0 27.84S 20.85E 0 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.1km s-min=5.4km az=161.9.
PRE Error ellipse: s-maj=7.6km s-min=6.0km az=-1.0.
IDC Error ellipse: s-maj=127.2km s-min=16.9km az=24.0.
ISC III 12 00 09 14.5–.98 26.42S–.04 27.31E–.04 7–8 26 0-9
ISCJB III 12 00 09 14.2–.59 26.42S–.03 27.32E–.04 11–4 ¶16449541
PRE III 12 00 09 14.6–1.2 26.41S 27.31E 2 3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.6km az=32.1.
PRE Error ellipse: s-maj=2.3km s-min=1.8km az=-1.0.
ISC III 19 14 40 17.1–1.1 26.37S–.03 27.44E–.03 5–9 27 0-6
PRE III 19 14 40 16.9–2.4 26.38S 27.45E 2 2.6L ¶601191245
ISC Event type ke.
PRE Error ellipse: s-maj=4.6km s-min=3.5km az=-1.0.
ISC III 27 05 55 17.7–1.4 27.80S–.04 26.57E–.04 13–10 33 1-47
IDC III 27 05 55 16.7–2.8 27.74S 26.62E 0 4.1b,4.0 ¶17198740
PRE III 27 05 55 16.5–2.0 27.83S 26.59E 2 3.4L,4.0
ISCJB III 27 05 55 17.3–.94 27.89S–.04 26.54E–.04 16–8 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 28 02 50 36.7–1.3 26.22S–.04 27.55E–.04 4–10 32 0-47
ISCJB III 28 02 50 34.7–1.0 26.16S–.04 27.56E–.05 2–7 3.3b ¶16448345
IDC III 28 02 50 36.5–1.6 26.27S 27.64E 0 3.5b,3.4
PRE III 28 02 50 37.5–1.6 26.41S 27.60E 2 2.7L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.3km az=38.9.
IDC Error ellipse: s-maj=21.3km s-min=17.7km az=105.0.
PRE Error ellipse: s-maj=3.7km s-min=3.5km az=-1.0.
ISC IV 05 00 16 30.5–.97 26.42S–.04 27.34E–.05 6–8 18 0-47
ISCJB IV 05 00 16 30.3–.57 26.42S–.04 27.36E–.04 10–4 3.8b ¶17199825
IDC IV 05 00 16 30.3–3.8 26.26S 26.97E 0 3.7b,3.5
PRE IV 05 00 16 30.4–2.0 26.42S 27.34E 2 2.4L,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=5.6km az=44.0.
IDC Error ellipse: s-maj=80.4km s-min=16.5km az=106.0.
PRE Error ellipse: s-maj=4.3km s-min=3.4km az=-1.0.
ISC IV 05 15 57 19.7–.00 26.43S–.03 27.54E–.04 19–2 3.9b 47 0-88
ISCJB IV 05 15 57 18.3–.43 26.36S–.03 27.53E–.03 24–3 3.7b ¶16506223
IDC IV 05 15 57 18.3–1.5 26.33S 27.66E 0 3.9L,3.8
PRE IV 05 15 57 18.5–2.9 26.44S 27.64E 2 3.4L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.7km az=24.7.
IDC Error ellipse: s-maj=20.8km s-min=19.0km az=56.0.
PRE Error ellipse: s-maj=4.6km s-min=4.6km az=-1.0.
ISC IV 06 23 34 53.9–.45 28.71S–.04 20.48E–.05 10 4.4b,3.3s 63 1-138
ISCJB IV 06 23 34 52.3–.30 28.67S–.03 20.54E–.03 10 4.3b,3.5s ¶16577709
PRE IV 06 23 34 52.8–2.6 28.75S 20.46E 5 4.8L,3.5s
IDC IV 06 23 34 52.7–.85 28.70S 20.23E 0 4.2,4.1
NEIC IV 06 23 34 53.2–.33 28.72S 20.32E 5 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.7km az=160.8.
PRE Error ellipse: s-maj=4.8km s-min=4.9km az=-1.0.
IDC Error ellipse: s-maj=24.1km s-min=18.9km az=79.0.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=7.3km az=83.0.
ISC IV 11 17 07 26.9–1.3 26.29S–.05 27.37E–.04 4–11 20 1-6
PRE IV 11 17 07 26.9–1.7 26.43S 27.44E 2 2.5L ¶601191396
ISC Event type ke.
PRE Error ellipse: s-maj=4.2km s-min=2.7km az=-1.0.
ISC IV 12 00 28 09.6–.97 26.38S–.04 27.43E–.04 10–8 30 0-9
ISCJB IV 12 00 28 09.7–.67 26.41S–.03 27.47E–.03 11–5 ¶16503225
PRE IV 12 00 28 09.4–2.9 26.41S 27.45E 2 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=3.9km az=157.7.
PRE Error ellipse: s-maj=5.2km s-min=3.8km az=-1.0.
ISC IV 14 03 57 48.8–1.1 26.43S–.03 27.42E–.03 6–8 29 0-72
ISCJB IV 14 03 57 48.7–.68 26.41S–.03 27.46E–.03 13–4 3.5b ¶16503230
PRE IV 14 03 57 48.6–2.5 26.43S 27.43E 2 3.3L
IDC IV 14 03 57 50.2–4.1 26.34S 27.09E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=153.4.
PRE Error ellipse: s-maj=4.0km s-min=3.9km az=-1.0.
IDC Error ellipse: s-maj=105.0km s-min=18.3km az=112.0.
ISC IV 18 04 27 33.1–.81 26.39S–.03 27.54E–.03 11–5 39 0-8
ISCJB IV 18 04 27 32.8–.37 26.38S–.03 27.56E–.03 15–4 ¶16503234
PRE IV 18 04 27 32.8–2.9 26.44S 27.55E 2 3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.4km az=147.2.
PRE Error ellipse: s-maj=4.0km s-min=3.8km az=-1.0.
ISC IV 18 07 54 17.5–.88 26.34S–.04 27.54E–.03 7–6 26 0-6
ISCJB IV 18 07 54 17.1–.47 26.34S–.03 27.55E–.03 9–3 ¶16503235
PRE IV 18 07 54 17.3–2.6 26.34S 27.53E 2 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.9km az=158.6.
PRE Error ellipse: s-maj=5.2km s-min=3.5km az=-1.0.
ISC IV 18 09 20 48.0–.90 26.33S–.04 27.52E–.03 13–6 28 0-6
ISCJB IV 18 09 20 48.3–.47 26.32S–.04 27.54E–.03 17–6 ¶16503236
PRE IV 18 09 20 48.3–2.9 26.36S 27.52E 2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.2km az=157.8.
PRE Error ellipse: s-maj=6.4km s-min=4.2km az=-1.0.
ISC IV 18 21 38 38.9–1.1 26.21S–.06 27.66E–.03 13–7 30 0-10
ISCJB IV 18 21 38 39.9–.54 26.28S–.05 27.70E–.03 10–3 ¶601191436
PRE IV 18 21 38 39.8–3.1 26.27S 27.68E 2 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.2km s-min=3.7km az=166.0.
PRE Error ellipse: s-maj=7.0km s-min=4.2km az=-1.0.
ISC IV 21 13 20 21.8–1.3 28.6S–.10 20.44E–.07 10 8 1-4
ISCJB IV 21 13 20 21.0–1.0 28.61S–.10 20.45E–.08 10 ¶601191450
PRE IV 21 13 20 21.1–1.3 28.63S 20.48E 5 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.2km s-min=5.9km az=150.0.
PRE Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0.
ISC IV 22 14 38 08.7–.89 24.00S–.04 29.04E–.05 10 16 2-6
PRE IV 22 14 38 11.8–1.4 23.82S 28.67E 5 2.9L ¶601191456
ISCJB IV 22 14 38 13.4–.75 23.97S–.05 28.94E–.07 10 2.9L
ISC Event type ke.
ISCJB Event type ke.
PRE IV 30 23 53 01.7–1.3 27.02S 26.77E 2 3.5L
¶601191504
PRE Error ellipse: s-maj=2.0km s-min=1.9km az=-1.0.
ISC V 04 04 08 26.4–1.1 26.42S–.04 27.40E–.04 8–8 28 0-9
ISCJB V 04 04 08 25.5–.76 26.39S–.04 27.38E–.04 10–5 ¶601191530
PRE V 04 04 08 26.0–1.4 26.44S 27.42E 2 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=3.8km az=138.7.
PRE Error ellipse: s-maj=3.9km s-min=2.7km az=-1.0.
ISC V 04 09 58 59.6–1.2 28.65S–.09 20.35E–.06 10 10 1-6
ISCJB V 04 09 59 01.0–1.1 28.5S–.10 20.39E–.07 10 ¶601191532
PRE V 04 09 59 01.2–1.1 28.46S 20.39E 5 3.6L

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.6km s-min=5.9km az=153.8.
PRE Error ellipse: s-maj=4.6km s-min=3.8km az=-1.0.
PRE V 05 10 11 42.4–1.9 28.81S 20.36E 5 4.2L
¶601191542
PRE Error ellipse: s-maj=3.7km s-min=6.6km az=-1.0.
PRE V 07 09 53 19.8–1.6 28.61S 20.47E 5 3.5L
¶601191565
PRE Error ellipse: s-maj=8.6km s-min=2.9km az=-1.0.
ISC V 14 14 10 43.1–1.5 32.78S–.04 22.08E–.04 25–13 59 1-57
NEIC V 14 14 10 41.4 32.88S 22.12E 5 4.1L,3.8b ¶16524503
PRE V 14 14 10 41.7–1.6 32.78S 22.14E 5 4.8L,3.8b
ISC Event type fe.
NEIC Event type fe. Felt [III] at George, Knysna and Plettenberg Bay; [II] at Mossel Bay. Also felt at Port Elizabeth and Somerset West. After PRE.
PRE Error ellipse: s-maj=3.6km s-min=3.1km az=-1.0.
ISC V 14 16 26 13.6–1.1 28.79S–.06 20.55E–.05 10 26 0-11
ISCJB V 14 16 26 12.8–.60 28.82S–.05 20.56E–.05 10 ¶16591973
PRE V 14 16 26 12.7–1.8 28.76S 20.49E 5 4.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=4.2km az=141.8.
PRE Error ellipse: s-maj=3.4km s-min=3.0km az=-1.0.
ISC V 16 05 16 18.1–.96 26.25S–.03 28.24E–.04 5–7 32 0-10
ISCJB V 16 05 16 17.8–.63 26.26S–.03 28.23E–.03 1–5 ¶601174414
PRE V 16 05 16 18.6–1.1 26.24S 28.21E 2 3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=152.2.
PRE Error ellipse: s-maj=2.5km s-min=1.6km az=-1.0.
ISC V 19 01 19 06.1–1.4 25.58S–.04 27.36E–.04 6–10 32 0-6
ISCJB V 19 01 19 05.8–.92 25.56S–.03 27.39E–.04 5–6 ¶601174565
PRE V 19 01 19 06.4–1.7 25.61S 27.34E 2 2.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=4.0km az=17.9.
PRE Error ellipse: s-maj=3.4km s-min=3.2km az=-1.0.
PRE V 22 00 44 56.2–1.0 28.70S 20.42E 5 1.8L
¶601174802
PRE Error ellipse: s-maj=2.7km s-min=2.2km az=-1.0.
ISC V 24 01 52 35.6–.95 26.35S–.03 27.33E–.03 12–6 33 0-9
ISCJB V 24 01 52 35.3–.52 26.34S–.03 27.32E–.03 6–4 ¶16592002
PRE V 24 01 52 35.5–1.6 26.36S 27.31E 2 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.8km az=162.7.
PRE Error ellipse: s-maj=2.9km s-min=2.0km az=-1.0.
ISC V 24 03 12 00.6–.93 26.43S–.03 27.31E–.03 12–6 40 0-10
ISCJB V 24 03 12 00.2–.49 26.40S–.03 27.30E–.03 10–3 ¶16592001
PRE V 24 03 12 00.5–1.4 26.43S 27.30E 2 3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=154.3.
PRE Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
ISC V 31 18 04 57.9–1.1 26.48S–.03 27.26E–.03 5–10 24 0-6
ISCJB V 31 18 04 57.9–.52 26.41S–.03 27.25E–.03 4–5 ¶16592018
PRE V 31 18 04 58.1–1.1 26.43S 27.26E 2 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=145.6.
PRE Error ellipse: s-maj=1.9km s-min=1.6km az=-1.0.
ISC VI 02 07 33 23.9–.87 26.41S–.03 27.39E–.03 6–6 28 0-9
ISCJB VI 02 07 33 23.6–.47 26.40S–.03 27.42E–.03 9–3 ¶16725935
PRE VI 02 07 33 23.9–1.8 26.41S 27.40E 2 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=4.3km az=43.6.
PRE Error ellipse: s-maj=3.2km s-min=2.6km az=-1.0.
ISC VI 09 00 11 18.7–1.6 25.68S–.05 27.19E–.05 5–11 3.8b 38 0-148
PRE VI 09 00 11 18.2–2.6 25.64S 27.21E 2 3.8L ¶17205580
IDC VI 09 00 11 19.3–1.6 25.66S 27.03E 0 3.9,3.9
ISC Event type ke.
PRE Error ellipse: s-maj=5.1km s-min=4.6km az=-1.0.
IDC Error ellipse: s-maj=54.0km s-min=16.8km az=110.0.
ISC VI 19 21 08 33.2–.95 26.81S–.04 26.71E–.03 7–7 30 0-7
ISCJB VI 19 21 08 33.6–.69 26.83S–.03 26.72E–.03 0–6 ¶16725695
PRE VI 19 21 08 33.6–1.5 26.83S 26.73E 2 2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.9km s-min=3.5km az=42.7.
PRE Error ellipse: s-maj=2.3km s-min=2.3km az=-1.0.
ISC VI 22 17 24 30.8–.84 26.45S–.03 27.38E–.03 10–6 32 0-9
ISCJB VI 22 17 24 30.7–.63 26.43S–.03 27.40E–.03 12–4 ¶16725712
PRE VI 22 17 24 30.8–2.0 26.46S 27.38E 2 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.7km az=139.0.
PRE Error ellipse: s-maj=3.1km s-min=3.1km az=-1.0.
ISC VI 22 21 02 50.7–.97 28.60S–.05 20.44E–.03 9–6 22 0-7
NAM VI 22 21 02 39.6–143 28.46S 23.40E 26–999 4.4 ¶601654658
ISCJB VI 22 21 02 50.3–.59 28.62S–.04 20.45E–.03 13–4 4.4
PRE VI 22 21 02 50.6–2.2 28.57S 20.44E 5 3.5L
ISC Event type ke.
NAM Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=14.4.
PRE Error ellipse: s-maj=7.1km s-min=4.1km az=-1.0.
PRE VI 22 21 04 05.6–2.0 29.62S 23.07E 5 3.4L
¶601654662
PRE Error ellipse: s-maj=8.0km s-min=16.8km az=-1.0.
ISC VI 22 21 10 04.8–1.0 28.67S–.05 20.44E–.03 8–8 34 0-11
ISCJB VI 22 21 10 04.0–.57 28.67S–.05 20.44E–.04 18–5 ¶601654661
PRE VI 22 21 10 04.4–2.1 28.62S 20.46E 5 3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.1km az=161.6.
PRE Error ellipse: s-maj=6.0km s-min=3.5km az=-1.0.
PRE VI 22 21 11 19.7–2.3 29.67S 22.80E 5 3.7L
¶601654663
PRE Error ellipse: s-maj=13.4km s-min=22.7km az=-1.0.
ISC VI 24 02 07 50.7–.91 26.41S–.03 27.32E–.03 11–6 31 0-8
ISCJB VI 24 02 07 50.4–.61 26.40S–.03 27.32E–.03 10–4 ¶16725719
PRE VI 24 02 07 50.7–2.0 26.42S 27.30E 2 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=4.1km az=44.9.
PRE Error ellipse: s-maj=3.4km s-min=2.8km az=-1.0.
ISC VI 25 13 38 23.0–.99 29.98S–.06 18.07E–.04 10 24 1-13
PRE VI 25 13 38 22.7–2.2 30.17S 17.90E 5 4.0L ¶601654952
NAM VI 25 13 38 37.1–123 27.98S 23.24E 31–999 4.4
ISC Event type ke.
PRE Error ellipse: s-maj=6.8km s-min=6.1km az=-1.0.
NAM Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC VI 28 05 15 51.0–.82 26.45S–.03 27.61E–.03 11–5 4.0b 63 0-88
ISCJB VI 28 05 15 50.6–.37 26.42S–.03 27.62E–.03 15–3 3.9b ¶16725734
PRE VI 28 05 15 50.6–2.9 26.47S 27.59E 2 3.4L
IDC VI 28 05 15 51.1–1.4 26.43S 27.57E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=3.4km az=142.7.
PRE Error ellipse: s-maj=3.9km s-min=4.0km az=-1.0.
IDC Error ellipse: s-maj=26.5km s-min=18.1km az=117.0.

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IDC I 05 12 22 23.3–24 22.85N 12.29W 0 3.5,3.5
¶17189504
IDC Error ellipse: s-maj=290.7km s-min=137.3km az=142.0.
IDC I 16 14 53 36.8–3.1 22.81N 11.54W 0 3.8,3.8b
¶17190335
IDC Error ellipse: s-maj=105.2km s-min=30.8km az=85.0.
ISC I 18 18 15 04.1–1.8 22.6N–.10 11.5W–.30 10 8 16-148
ISCJB I 18 18 15 03.6–1.6 22.7N–.10 11.4W–.20 10 3.5b ¶17190498
IDC I 18 18 15 06.3–2.7 22.90N 10.95W 0 3.6,3.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=28.4km s-min=11.7km az=158.4.
IDC Error ellipse: s-maj=88.8km s-min=31.3km az=77.0.
IDC II 09 15 31 53.7–3.4 22.84N 11.90W 0 3.6,3.6
¶17191949
IDC Error ellipse: s-maj=116.4km s-min=59.7km az=66.0.
IDC II 09 17 34 39.6–3.3 22.74N 11.76W 0 3.6,3.5
¶17191952
IDC Error ellipse: s-maj=114.5km s-min=58.4km az=66.0.
ISC II 22 08 59 51.1–1.8 22.7N–.20 11.5W–.30 10 3.8b 8 16-148
ISCJB II 22 08 59 49.4–1.6 22.7N–.20 11.5W–.20 10 3.6b **¶17192690**
IDC II 22 08 59 50.6–2.6 22.80N 11.29W 0 3.7,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.0km s-min=13.0km az=148.5.
IDC Error ellipse: s-maj=84.6km s-min=30.5km az=77.0.
ISC II 22 16 07 25.1–1.1 22.7N–.10 11.9W–.20 10 3.9b 11 12-149
ISCJB II 22 16 07 23.7–1.1 22.7N–.10 11.8W–.20 10 3.8b **¶17192714**
IDC II 22 16 07 23.7–1.1 22.82N 12.03W 0 3.9,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.3km s-min=10.9km az=145.2.
IDC Error ellipse: s-maj=32.6km s-min=28.6km az=99.0.
IDC II 22 17 08 54.7–3.0 22.69N 11.72W 0 3.6,3.6
¶17192718
IDC Error ellipse: s-maj=141.2km s-min=54.5km az=65.0.
ISC III 01 15 24 54.7–2.4 22.8N–.20 11.8W–.40 10 3.9b 8 16-149
IDC III 01 15 24 53.3–2.8 22.79N 11.88W 0 4.0,3.9 **¶17193077**
ISCJB III 01 15 24 53.3–2.5 22.8N–.10 11.8W–.50 10 3.9b,3.9
ISC Event type ke.
ISCJB Event type ke.
IDC IV 01 18 12 04.4–2.5 22.84N 11.53W 0 3.7,3.7
¶17199451
IDC Error ellipse: s-maj=77.6km s-min=28.8km az=80.0.
ISC IV 10 15 19 07.1–1.8 22.8N–.20 11.6W–.30 10 3.3b 8 16-148
IDC IV 10 15 19 03.2–1.5 22.84N 12.34W 0 3.8L,3.6 **¶17200476**
ISCJB IV 10 15 19 04.9–1.5 22.8N–.10 11.7W–.20 10 3.3b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 27 15 46 07.4–3.4 22.88N 11.78W 0 3.6,3.6
¶17202241
IDC Error ellipse: s-maj=124.3km s-min=64.5km az=67.0.
ISC V 12 11 01 41.4–2.7 22.3N–.20 12.5W–.40 10 6 16-149
ISCJB V 12 11 01 40.4–3.5 22.4N–.20 12.4W–.50 10 3.6b **¶17203476**
IDC V 12 11 01 43.0–2.7 22.47N 12.16W 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=71.9km s-min=20.1km az=172.6.
IDC Error ellipse: s-maj=79.1km s-min=35.9km az=91.0.
IDC V 20 11 23 39.8–2.1 22.06N 12.68W 0 3.7,3.6
¶17204035
IDC Error ellipse: s-maj=67.8km s-min=37.0km az=38.0.
IDC VI 03 18 36 48.0–3.2 22.55N 11.84W 0 3.6,3.6
¶17205112
IDC Error ellipse: s-maj=152.4km s-min=55.3km az=64.0.
IDC VI 06 11 55 23.6–2.4 22.80N 12.28W 0 3.8,3.6
¶17205409
IDC Error ellipse: s-maj=68.1km s-min=40.5km az=71.0.

SEISMIC REGION 38.
Australia.

(588) Northwest of Australia.

IDC II 07 17 20 46.1–4.2 12.10S 115.94E 0 3.3,3.2
¶17191867
IDC Error ellipse: s-maj=238.9km s-min=27.9km az=44.0.
ISC IV 17 18 41 18.6–.75 19.89S–.04 113.72E–.05 10–4 5.3b,4.4s 447 6-152
BJI IV 17 18 41 13.6 20.26S 113.96E 7 5.2b,5.1b **¶16442694**
ISCJB IV 17 18 41 16.3–1.1 19.89S–.03 113.75E–.03 6–6 5.2b,4.4s
IDC IV 17 18 41 17.3–.56 19.89S 113.73E 0 5.3L,5.2
MOS IV 17 18 41 17.2–1.0 19.85S 113.74E 10 5.4b,4.2s
GCMT IV 17 18 41 18.5–.10 19.85S 113.49E 26–0 5.3W,4.2s
NEIC IV 17 18 41 18.5–.25 19.92S 113.73E 10 5.3b,4.2s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=6.7km s-min=4.5km az=39.8.
IDC Error ellipse: s-maj=18.2km s-min=14.7km az=89.0.
MOS Error ellipse: s-maj=9.5km s-min=6.5km az=113.9.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s86,c142; s103,c185; Duration: 1$\hat{s}$1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.02 $M_{\theta\theta}$0.44±.01; $M_{\phi\phi}$-0.50±.02; $M_{r\theta}$0.47±.03; $M_{\theta\phi}$-0.85±.01; $M_{\phi r}$-0.20±.03; Best double couple: NP1:ϕ_s73.00000°,δ76.00000°,λ159.00000°. NP2:ϕ_s168.00000°,δ70.00000°,λ15.00000°. Principal axes: T 1.1700,Plg25.0000°,Azm30.0000°; N -0.1620,Plg65.0000°,Azm220.0000° ; P -1.0090,Plg4.0000°,Azm121.0000° M_o1.09000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=7.4km s-min=5.0km az=225.0. Felt [II] at Karratha. Also felt at Roebourne.

(590) Western Australia.

ISC I 11 03 11 36.0–.93 27.92S–.08 124.69E–.07 10 21 4-15
ISCJB I 11 03 11 33.8–.49 28.03S–.08 124.62E–.06 10 **¶16395492**
IDC I 11 03 11 34.3–2.4 28.17S 124.69E 0 3.8,3.7
AUST I 11 03 11 39.1–1.1 28.00S 124.49E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=5.7km az=154.3.
IDC Error ellipse: s-maj=37.3km s-min=24.8km az=154.0.
AUST Error ellipse: s-maj=0.2km s-min=0.1km az=319.0.
ISC IV 14 01 18 23.9–1.3 18.1S–.10 124.03E–.09 10 26 2-75
AUST IV 14 01 18 22.6–.44 18.20S 123.73E 20 **¶17316928**
IDC IV 14 01 18 22.4–2.8 17.80S 123.90E 0 4.1L,3.9
ISC Event type ke.
AUST Error ellipse: s-maj=6.1km s-min=4.2km az=149.0.
IDC Error ellipse: s-maj=94.0km s-min=24.0km az=27.0.
IDC IV 26 07 56 58.1–4.0 16.63S 128.47E 0 2.8,2.8
¶17202114
IDC Error ellipse: s-maj=48.7km s-min=15.2km az=0.0.
ISC V 07 05 23 32.8–.78 17.83S–.06 123.02E–.07 10 4.0b 27 3-144
ISCJB V 07 05 23 31.2–.44 17.75S–.04 122.99E–.05 10 3.8b **¶16578048**
IDC V 07 05 23 31.7–1.2 17.80S 122.84E 0 4.4,4.3
NEIC V 07 05 23 36.0 17.74S 122.88E 10 4.4b,4.0L
AUST V 07 05 23 36.1–1.6 17.75S 122.89E 10 4.4b,4.0L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.3km az=4.3.
IDC Error ellipse: s-maj=36.1km s-min=22.3km az=43.0.
NEIC Event type se. After AUST.
AUST Error ellipse: s-maj=2.9km s-min=0.9km az=317.0.
ISC V 09 08 18 08.8–1.8 27.28S–.09 113.3E–.20 10 16 3-147
IDC V 09 08 18 06.4–2.4 27.24S 113.11E 0 4.3,4.1 **¶16709246**
AUST V 09 08 18 10.0–.87 27.25S 112.97E 10 4.3,4.1
ISC Event type ke.
IDC Error ellipse: s-maj=49.6km s-min=43.7km az=123.0.
AUST Error ellipse: s-maj=2.1km s-min=0.1km az=261.0.
ISC V 20 20 03 26.7–.41 23.57S–.04 119.50E–.05 10 4.5b 92 5-120
ISCJB V 20 20 03 25.0–.26 23.58S–.03 119.49E–.04 10 4.7s,4.5b **¶16532334**
IDC V 20 20 03 26.1–.75 23.44S 119.30E 0 4.6L,4.3
NEIC V 20 20 03 29.0 23.46S 119.33E 9 4.7L,4.7b
AUST V 20 20 03 29.8–.27 23.46S 119.33E 9 4.7L,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=5.5km s-min=4.4km az=24.9.
IDC Error ellipse: s-maj=17.8km s-min=16.4km az=30.0.
NEIC Event type fe. Felt [II] at Port Hedland and Roebourne. Also felt at Karratha. After AUST.
AUST Error ellipse: s-maj=0.1km s-min=0.1km az=295.0.

(591) Northern Territory.

IDC I 04 06 07 21.0–1.1 19.85S 133.92E 0 4.1,4.1L
¶17189394
IDC Error ellipse: s-maj=19.9km s-min=8.4km az=14.0.
ISC II 21 21 59 35.1–.32 21.14S–.04 135.49E–.05 10 4.8b,3.0s 132 1-150
ISCJB II 21 21 59 33.5–.27 21.12S–.03 135.60E–.04 10 4.8b,2.9s **¶16057211**
IDC II 21 21 59 33.7–.55 21.13S 135.38E 0 4.6,4.6L
BJI II 21 21 59 33.4 21.10S 135.40E 10 5.1b,4.9s
NEIC II 21 21 59 36.0 20.90S 135.42E 1 4.4L,4.0W
AUST II 21 21 59 36.9–.70 20.90S 135.42E 1–3 4.4L,4.0W
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.4km az=162.9.
IDC Error ellipse: s-maj=14.3km s-min=10.6km az=80.0.
NEIC Event type se. After AUST. Moment Tensor Solution. s5 Moment tensor: Scale 10^{15}Nm; M_{rr}1.07 $M_{\theta\theta}$-0.19 $M_{\phi\phi}$-0.88 $M_{r\theta}$0.16 $M_{\theta\phi}$-0.41 $M_{\phi r}$0.35 Best double couple: NP1:ϕ_s205.00000°,δ35.00000°,λ90.00000°. NP2:ϕ_s25.00000°,δ55.00000°,λ90.00000°. Principal axes: T 1.1400,Plg80.0000°,Azm295.0000°; N 0.0000,Plg0.0000°,Azm25.0000° ; P -1.1400,Plg10.0000°,Azm115.0000° M_o1.10000×10^{15}
AUST Error ellipse: s-maj=7.5km s-min=2.2km az=24.0.
ISC III 07 04 20 38.6–.85 19.87S–.05 134.19E–.08 12 32 0-81
ISCJB III 07 04 20 36.4–.64 19.80S–.06 134.10E–.04 12 3.6b **¶16484531**
AUST III 07 04 20 37.0–.29 19.89S 134.07E 8 3.6b
IDC III 07 04 20 38.1–1.2 19.78S 134.18E 0 4.0,4.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.9km az=9.6.
AUST Error ellipse: s-maj=0.9km s-min=0.2km az=267.0.
IDC Error ellipse: s-maj=7.1km s-min=4.7km az=140.0.
IDC IV 01 08 17 40.4–6.0 18.87S 134.07E 0 3.5L,3.2
¶17199398
IDC Error ellipse: s-maj=37.4km s-min=11.2km az=167.0.
ISC V 01 21 40 21.2–1.0 19.87S–.07 133.98E–.08 12 28 0-14
ISCJB V 01 21 40 19.1–.61 19.85S–.05 133.90E–.04 12 **¶16708532**
AUST V 01 21 40 20.4–.05 19.88S 133.93E 5
IDC V 01 21 40 22.6–2.6 20.03S 134.65E 0 3.8,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.6km s-min=5.6km az=3.5.
AUST Error ellipse: s-maj=0.5km s-min=0.2km az=279.0.
IDC Error ellipse: s-maj=29.7km s-min=10.1km az=39.0.
IDC VI 21 04 12 43.4–1.4 19.87S 133.93E 0 3.8,3.8L
¶17206651
IDC Error ellipse: s-maj=9.0km s-min=3.4km az=101.0.

(592) South Australia.

IDC I 04 05 14 53.8–3.8 30.35S 138.29E 0 2.9,2.9
¶17189390
IDC Error ellipse: s-maj=93.2km s-min=18.2km az=46.0.
IDC I 06 05 14 54.4–3.2 30.22S 138.54E 0 2.9,2.9
¶17189569
IDC Error ellipse: s-maj=84.2km s-min=15.6km az=45.0.
IDC I 18 05 14 42.5–3.2 30.27S 138.45E 0 3.5,3.4
¶17190452
IDC Error ellipse: s-maj=84.1km s-min=17.9km az=47.0.
IDC I 19 05 23 36.5–2.9 30.12S 138.63E 0 3.0,3.0
¶17190530
IDC Error ellipse: s-maj=74.2km s-min=15.0km az=46.0.
IDC II 03 05 14 57.7–4.8 30.61S 138.19E 0 3.0,2.9
¶17191574
IDC Error ellipse: s-maj=105.2km s-min=18.1km az=39.0.
IDC II 09 05 14 54.9–2.9 30.10S 138.58E 0 3.0,3.0
¶17191930
IDC Error ellipse: s-maj=80.7km s-min=19.0km az=48.0.
IDC II 16 05 14 59.0–4.2 30.36S 138.38E 0 3.0,2.9
¶17192342
IDC Error ellipse: s-maj=111.9km s-min=17.9km az=42.0.
IDC II 20 15 30 38.9–5.0 31.88S 138.74E 0 3.5,3.3
¶17192591
IDC Error ellipse: s-maj=73.6km s-min=16.8km az=25.0.
IDC II 23 05 28 56.7–4.1 30.55S 138.18E 0 3.1,3.1
¶17192739
IDC Error ellipse: s-maj=93.2km s-min=16.8km az=40.0.
IDC III 01 05 26 56.0–3.2 29.91S 138.54E 0 3.2,3.1
¶17193042
IDC Error ellipse: s-maj=91.2km s-min=16.1km az=47.0.
IDC III 16 01 00 02.5–3.1 30.27S 138.55E 0 3.1,3.1
¶17196304
IDC Error ellipse: s-maj=78.0km s-min=14.9km az=44.0.
IDC III 17 05 15 01.3–3.7 30.40S 138.35E 0 3.5,3.4
¶17196619
IDC Error ellipse: s-maj=91.3km s-min=16.0km az=42.0.
ISC III 21 16 35 17.4–1.1 31.48S–.08 138.66E–.06 14 11 2-12
ISCJB III 21 16 35 15.7–.67 31.37S–.06 138.66E–.07 14 **¶16480003**
AUST III 21 16 35 18.3–1.9 31.49S 138.66E 18–14
IDC III 21 16 35 20.1–5.0 30.87S 139.16E 0 2.8,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.0km s-min=6.4km az=43.7.
AUST Error ellipse: s-maj=4.9km s-min=4.5km az=114.0.
IDC Error ellipse: s-maj=130.3km s-min=15.1km az=38.0.
IDC III 23 05 14 59.6–2.9 30.08S 138.73E 0 3.0,3.0
¶17198128
IDC Error ellipse: s-maj=86.0km s-min=14.8km az=46.0.
ISC III 26 19 22 47.9–1.2 27.48S–.09 135.5E–.10 10 14 4-10
ISCJB III 26 19 22 46.2–.89 27.49S–.08 135.6E–.10 10 **¶16481063**
AUST III 26 19 22 46.3–.00 27.48S 135.49E 10
IDC III 26 19 22 49.4–2.6 27.38S 135.80E 0 3.3,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.7km s-min=5.6km az=148.3.
AUST Error ellipse: s-maj=0.2km s-min=0.1km az=252.0.
IDC Error ellipse: s-maj=46.5km s-min=16.3km az=56.0.
IDC III 29 05 14 55.1–4.0 30.17S 138.67E 0 2.9,2.9
¶17199032
IDC Error ellipse: s-maj=135.8km s-min=16.9km az=44.0.
ISC III 31 20 28 19.7–1.1 30.67S–.09 137.11E–.09 10 7 2-11
IDC III 31 20 28 27.3–3.3 29.84S 137.51E 0 3.4,3.2 **¶17199350**
ISC Event type ke.
IDC Error ellipse: s-maj=64.6km s-min=15.5km az=46.0.
IDC IV 06 06 30 03.0–3.1 30.09S 138.69E 0 3.1,3.0
¶17199976
IDC Error ellipse: s-maj=97.6km s-min=17.4km az=45.0.
IDC IV 07 06 15 02.2–5.0 30.15S 138.33E 0 3.0,3.0
¶17200083
IDC Error ellipse: s-maj=166.1km s-min=27.6km az=48.0.
IDC IV 12 06 14 54.9–3.8 30.38S 138.41E 0 3.0,2.9
¶17200738
IDC Error ellipse: s-maj=102.0km s-min=21.0km az=44.0.
IDC IV 19 06 14 57.1–3.7 30.01S 138.83E 0 2.9,2.9
¶17201475
IDC Error ellipse: s-maj=140.9km s-min=17.7km az=46.0.
IDC IV 20 06 14 55.9–2.7 29.91S 138.85E 0 3.0,3.0
¶17201593
IDC Error ellipse: s-maj=93.0km s-min=15.2km az=48.0.
ISC IV 23 02 22 55.9–1.2 31.10S–.08 138.89E–.07 33 11 2-12
AUST IV 23 02 22 52.4–.00 31.03S 138.86E 10 **¶16707763**
ISCJB IV 23 02 22 54.1–.64 30.99S–.06 138.88E–.08 33
IDC IV 23 02 22 55.8–3.4 30.54S 139.52E 0 3.6,3.4
ISC Event type ke.
AUST Error ellipse: s-maj=0.1km s-min=0.1km az=358.0.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=6.3km az=143.0.
IDC Error ellipse: s-maj=114.2km s-min=15.8km az=45.0.
IDC IV 27 06 15 05.7–3.5 30.16S 138.69E 0 2.9,2.9
¶17202211
IDC Error ellipse: s-maj=102.6km s-min=16.6km az=44.0.
IDC V 02 06 14 60.0–3.8 30.51S 138.27E 0 2.8,2.8
¶17202584
IDC Error ellipse: s-maj=77.2km s-min=16.3km az=41.0.

IDC V 04 06 14 56.9–2.7 30.32S 138.36E 0 3.6,3.4 ¶17202731
IDC Error ellipse: s-maj=69.1km s-min=14.4km az=42.0.
IDC V 11 12 15 22.3–3.0 26.71S 133.10E 0 3.5,3.4 ¶17203389
IDC Error ellipse: s-maj=30.3km s-min=21.9km az=74.0.
IDC V 17 06 43 60.0–2.9 30.12S 138.61E 0 3.2,3.1 ¶17203793
IDC Error ellipse: s-maj=78.5km s-min=14.9km az=46.0.
IDC V 18 06 14 58.2–2.4 30.18S 138.54E 0 3.5,3.3 ¶17203856
IDC Error ellipse: s-maj=64.2km s-min=14.1km az=44.0.
ISC V 23 13 47 15.9–1.1 26.02S–.07 131.46E–.08 10 23 3-14
ISCJB V 23 13 47 13.9–.62 26.02S–.04 131.44E–.07 10 **¶16710717**
AUST V 23 13 47 13.8–.00 26.00S 131.42E 0
IDC V 23 13 47 15.9–6.8 25.97S 131.23E 17–33 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=6.1km az=12.7.
AUST Error ellipse: s-maj=0.1km s-min=0.1km az=285.0.
IDC Error ellipse: s-maj=56.5km s-min=30.8km az=73.0.
IDC V 25 06 14 58.4–2.7 30.35S 138.36E 0 3.7,3.5 ¶17204433
IDC Error ellipse: s-maj=66.2km s-min=14.3km az=42.0.
IDC V 25 22 05 23.4–5.4 31.97S 138.94E 0 3.2,3.1 ¶17204471
IDC Error ellipse: s-maj=81.9km s-min=17.6km az=22.0.
IDC V 31 06 14 52.8–4.8 30.56S 138.25E 0 2.9,2.9 ¶17204810
IDC Error ellipse: s-maj=110.8km s-min=17.2km az=39.0.
IDC VI 01 06 14 58.0–3.4 30.39S 138.36E 0 3.1,3.0 ¶17204865
IDC Error ellipse: s-maj=79.5km s-min=15.9km az=42.0.
IDC VI 07 06 15 00.1–3.0 29.92S 138.94E 0 2.9,2.9 ¶17205456
IDC Error ellipse: s-maj=116.1km s-min=16.9km az=48.0.
IDC VI 08 06 14 58.0–4.0 30.43S 138.27E 0 3.0,3.0 ¶17205536
IDC Error ellipse: s-maj=83.8km s-min=16.3km az=42.0.
IDC VI 15 06 15 00.1–5.0 30.28S 138.55E 0 3.0,3.0 ¶17206162
IDC Error ellipse: s-maj=167.3km s-min=24.4km az=45.0.
IDC VI 29 06 16 01.3–3.5 30.10S 138.68E 0 3.0,3.0 ¶17207172
IDC Error ellipse: s-maj=102.5km s-min=15.8km az=46.0.
IDC VI 30 06 15 00.7–2.6 30.26S 138.46E 0 3.5,3.4 ¶17207238
IDC Error ellipse: s-maj=69.0km s-min=14.2km az=43.0.

(594) Queensland.

IDC I 04 04 31 24.7–6.6 18.78S 138.43E 0 2.5,2.5 ¶17189387
IDC Error ellipse: s-maj=49.0km s-min=31.9km az=61.0.
IDC I 22 01 04 10.2–2.2 20.42S 140.72E 0 3.4,3.2 ¶17190707
IDC Error ellipse: s-maj=36.3km s-min=15.3km az=173.0.
ISC I 23 19 40 01.5–1.1 27.95S–.10 148.35E–.06 10 9 2-15
AUST I 23 19 40 06.1–.19 28.39S 148.52E 10 **¶16396644**
IDC I 23 19 40 11.8–7.7 28.08S 147.65E 0 3.7,3.7L
ISC Event type ke.
AUST Error ellipse: s-maj=3.3km s-min=2.4km az=132.0.
IDC Error ellipse: s-maj=73.9km s-min=35.5km az=103.0.
ISC III 15 06 08 00.1–1.1 17.34S–.06 146.33E–.07 10 28 2-15
ISCJB III 15 06 07 57.8–.93 17.28S–.06 146.23E–.08 10 **¶16478126**
IDC III 15 06 07 58.7–2.5 17.29S 146.16E 0 3.9,3.9
AUST III 15 06 07 59.1–.26 17.33S 146.25E 0 3.9,3.9
NEIC III 15 06 07 59.0 17.33S 146.25E 0 3.6L,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=11.4km s-min=8.5km az=153.6.
IDC Error ellipse: s-maj=29.1km s-min=23.1km az=87.0.
AUST Error ellipse: s-maj=3.4km s-min=2.6km az=44.0.
NEIC Event type fe. Felt at Innisfail. After AUST.
ISC IV 16 05 31 19.3–.27 20.01S–.04 147.68E–.04 10 5.2b,4.3s 354 1-153
BJI IV 16 05 31 15.1 19.95S 148.17E 7 5.1b,5.0b **¶16440103**
IDC IV 16 05 31 17.3–.54 19.89S 147.77E 0 4.9,4.8L
ISCJB IV 16 05 31 17.2–.20 20.06S–.03 147.68E–.03 10 5.1b,4.2s
MOS IV 16 05 31 18.0–1.3 19.88S 147.61E 10 5.2b,4.2s
NEIC IV 16 05 31 18.0 20.09S 147.76E 7 5.3L,5.2b
AUST IV 16 05 31 18.2–1.1 20.09S 147.76E 7–0 5.3L,5.2b
GCMT IV 16 05 31 18.0–.20 20.08S 147.77E 26–1 5.2W,5.2b
ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=11.9km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=4.1km s-min=3.7km az=165.8.
MOS Error ellipse: s-maj=9.3km s-min=7.3km az=109.7.
NEIC Event type fe. Felt [IV] at Ayr and Bowen; [III] at Charters Towers, Mackay, Moranbah and Townsville; [II] at Atherton, Brisbane, Emerald, Gold Coast, Ingham and Innisfail. Also felt at Bundaberg, Cairns, Coolum Beach, Maroochydore, Mooloolaba, Rockhampton, Toowoomba and Warwick. Felt at Casino, New South Wales. After AUST. Moment Tensor Solution. s7 Moment tensor: Scale 10^{16}Nm; M_{rr}0.01 $M_{\theta\theta}$-0.10 $M_{\phi\phi}$0.09 $M_{r\theta}$-1.60 $M_{\theta\phi}$3.19 $M_{\phi r}$0.81 Best double couple: NP1:ϕ_s182.00000°,δ66.00000°,λ-170.00000°. NP2:ϕ_s88.00000°,δ81.00000°,λ-25.00000°. Principal axes: T 3.2900,Plg11.0000°,Azm137.0000° ; N 0.6500,Plg64.0000°,Azm250.0000°; P -3.9500,Plg24.0000°,Azm42.0000° M_o3.70000×10^{16}
AUST Error ellipse: s-maj=0.9km s-min=0.3km az=30.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s53,c73; s87,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.95±.18 $M_{\theta\theta}$-0.25±.18; $M_{\phi\phi}$-0.69±.19; $M_{r\theta}$1.01±.35; $M_{\theta\phi}$6.33±.12; $M_{\phi r}$0.72±.34; Best double couple: NP1:ϕ_s92.00000°,δ82.00000°,λ10.00000°. NP2:ϕ_s0.00000°,δ80.00000°,λ171.00000°. Principal axes: T 6.1500,Plg13.0000°,Azm316.0000°; N 0.6610,Plg77.0000°,Azm130.0000° ; P -6.8120,Plg1.0000°,Azm226.0000° M_o6.48100×10^{16}
ISC IV 16 07 06 55.0–.84 20.34S–.06 147.60E–.09 10 4.3b 37 1-147
ISCJB IV 16 07 06 52.8–.63 20.37S–.05 147.57E–.06 10 4.4b **¶16442662**
NEIC IV 16 07 06 52.0 20.17S 147.68E 0 4.1L,4.0b
AUST IV 16 07 06 52.2–.36 20.17S 147.68E 0 4.1L,4.0b
IDC IV 16 07 06 52.2–1.9 20.37S 147.68E 0 3.9,3.9b
BJI IV 16 07 06 54.5 20.30S 147.60E 10 4.8b,4.5
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=8.2km s-min=6.7km az=139.5.
NEIC Event type fe. Felt [IV] at Bowen and [II] at Mackay and Townsville. Also felt at Atherton, Ayr, Emerald and Ingham. After AUST.
AUST Error ellipse: s-maj=5.9km s-min=1.8km az=20.0.
IDC Error ellipse: s-maj=37.4km s-min=20.0km az=15.0.
IDC V 02 05 21 19.6–2.5 22.45S 148.00E 0 3.7b,3.6 ¶17202580
IDC Error ellipse: s-maj=38.0km s-min=23.0km az=70.0.
IDC V 15 10 24 00.5–4.3 20.59S 139.26E 0 3.0,3.0 ¶17203686
IDC Error ellipse: s-maj=36.5km s-min=26.1km az=39.0.
IDC V 26 12 28 43.9–2.2 26.53S 147.12E 0 4.1,4.1L ¶17204506
IDC Error ellipse: s-maj=54.7km s-min=40.8km az=123.0.

(600) Near coast of South Australia.

ISC I 04 16 40 13.7–1.6 33.89S–.10 135.6E–.10 10 19 1-18
ISCJB I 04 16 40 11.5–1.1 33.97S–.10 135.68E–.09 10 **¶16394911**
AUST I 04 16 40 12.6–.38 34.06S 135.55E 0
IDC I 04 16 40 16.1–4.8 33.50S 135.66E 0 3.9,3.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=7.2km az=33.8.
AUST Error ellipse: s-maj=4.8km s-min=2.7km az=57.0.
IDC Error ellipse: s-maj=51.5km s-min=24.3km az=19.0.
ISC II 13 14 48 09.2–1.3 33.04S–.10 138.69E–.07 10 9 2-14
AUST II 13 14 48 09.8–.02 33.21S 138.63E 2 **¶16398116**
IDC II 13 14 48 18.0–5.6 32.23S 138.97E 0 2.9,2.9
ISC Event type ke.
AUST Error ellipse: s-maj=0.1km s-min=0.1km az=5.0.
IDC Error ellipse: s-maj=72.5km s-min=18.8km az=18.0.
IDC IV 22 15 18 17.2–5.7 32.58S 139.26E 0 3.1,3.0 ¶17201824
IDC Error ellipse: s-maj=66.5km s-min=19.5km az=9.0.
ISC V 04 12 29 17.7–1.0 32.19S–.08 137.96E–.05 10 15 1-18
ISCJB V 04 12 29 16.7–.68 32.02S–.06 138.00E–.06 10 **¶16708796**
AUST V 04 12 29 17.9–.85 32.27S 137.93E 0–5
IDC V 04 12 29 21.1–4.8 31.82S 138.11E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.0km az=36.8.
AUST Error ellipse: s-maj=4.7km s-min=3.3km az=171.0.
IDC Error ellipse: s-maj=64.5km s-min=16.9km az=28.0.
ISC V 22 18 16 14.1–.98 33.01S–.06 139.29E–.06 10 9 1-14
AUST V 22 18 16 18.2–.00 33.26S 139.33E 10 **¶16710644**
IDC V 22 18 16 20.5–7.0 32.60S 139.21E 0 3.2,3.1
ISC Event type ke.
AUST Error ellipse: s-maj=0.1km s-min=0.1km az=350.0.
IDC Error ellipse: s-maj=90.0km s-min=26.0km az=21.0.
ISC V 24 10 27 20.3–2.0 32.6S–.10 139.16E–.08 10 11 2-70
IDC V 24 10 27 19.4–3.2 32.58S 139.20E 0 4.1b,4.0 **¶16710802**
ISC Event type ke.
IDC Error ellipse: s-maj=50.0km s-min=23.2km az=12.0.
ISC V 24 12 45 56.2–1.9 32.6S–.10 139.22E–.09 10 10 2-85
IDC V 24 12 45 54.0–3.0 32.65S 139.14E 0 4.0,4.0L **¶17204381**
ISC Event type ke.
IDC Error ellipse: s-maj=52.9km s-min=27.8km az=19.0.
ISC V 28 10 34 54.2–1.0 33.09S–.06 139.23E–.06 10 13 0-14
ISCJB V 28 10 34 53.0–.78 33.01S–.06 139.3E–.10 10 **¶16711120**
AUST V 28 10 34 55.7–.00 33.28S 139.35E 10
IDC V 28 10 35 00.2–5.0 32.56S 139.31E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=7.8km az=162.1.
AUST Error ellipse: s-maj=0.2km s-min=0.1km az=350.0.
IDC Error ellipse: s-maj=56.3km s-min=19.2km az=11.0.

(603) Near southeast coast of Australia.

ISC VI 01 03 29 03.8–1.0 37.36S–.07 142.43E–.06 10 29 1-19
ISCJB VI 01 03 29 02.8–.80 37.46S–.07 142.40E–.09 10 **¶16684504**
AUST VI 01 03 29 04.3–.90 37.49S 142.43E 2–6
NEIC VI 01 03 29 04.0 37.49S 142.43E 2 3.8L
IDC VI 01 03 29 10.5–5.7 37.02S 141.34E 0 4.0,3.9L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=12.6km s-min=6.6km az=137.4.
AUST Error ellipse: s-maj=6.6km s-min=2.7km az=26.0.
NEIC Event type fe. Felt at Dunkeld and Halls Gap. After AUST.
IDC Error ellipse: s-maj=69.8km s-min=38.6km az=116.0.

SEISMIC REGION 39.
Pacific Basin.

(611) North Pacific Ocean.

IDC I 01 14 18 45.3–8.6 29.18N 144.08E 0 3.7,3.7s ¶17189138
IDC Error ellipse: s-maj=311.0km s-min=26.6km az=71.0.
ISC I 11 22 47 27.2–1.3 26.9N–.20 145.3E–.20 10 3.8b 9 18-72
ISCJB I 11 22 47 25.0–1.2 26.9N–.20 145.4E–.20 10 3.8b **¶17189951**
IDC I 11 22 47 25.6–1.4 26.87N 145.37E 0 3.8,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=31.3km s-min=21.8km az=158.3.
IDC Error ellipse: s-maj=41.1km s-min=26.7km az=78.0.
IDC I 11 23 11 54.9–11 26.94N 145.84E 0 3.7,3.6 ¶17189952
IDC Error ellipse: s-maj=421.3km s-min=31.4km az=73.0.
IDC I 16 10 36 53.4–7.7 27.03N 145.23E 0 3.7,3.6 ¶17190311
IDC Error ellipse: s-maj=297.6km s-min=20.8km az=74.0.
IDC I 16 17 03 35.3–16 27.10N 145.15E 0 3.8,3.6 ¶17190338
IDC Error ellipse: s-maj=598.0km s-min=31.6km az=74.0.
IDC I 29 07 22 35.3–1.4 22.17N 145.51E 0 3.8,3.7 ¶17191242
IDC Error ellipse: s-maj=67.1km s-min=25.1km az=92.0.
ISC I 31 14 46 32.6–.50 22.19N–.04 145.48E–.05 34–1 5.0b,4.1s 793 5-152
IDC I 31 14 46 26.9–.47 22.12N 145.58E 0 4.8,4.8 **¶15990275**
JMA I 31 14 46 30.6–.40 22.81N 145.84E 0 5.9,4.8
BJI I 31 14 46 30.7 22.03N 145.68E 49 5.2b,4.8b
MOS I 31 14 46 31.5–.91 22.25N 145.48E 35 5.2b,4.0s
ISCJB I 31 14 46 33.1–.14 22.25N–.03 145.47E–.02 48 5.0b,4.1s
NEIC I 31 14 46 34.3–.12 22.14N 145.46E 49 5.2b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=15.6km s-min=11.3km az=92.0.
JMA Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.
MOS Error ellipse: s-maj=7.7km s-min=4.4km az=101.9.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.8km az=13.1.
NEIC Event type se. Error ellipse: s-maj=3.5km s-min=3.4km az=142.0.
IDC II 01 01 36 07.1–1.6 22.68N 145.13E 0 3.5,3.4 ¶17191447
IDC Error ellipse: s-maj=52.7km s-min=31.2km az=82.0.
ISC II 01 07 38 08.8–1.1 22.2N–.20 145.9E–.20 10 3.7b 8 22-81
ISCJB II 01 07 38 07.2–.88 22.2N–.10 145.8E–.20 10 3.6b,2.5s **¶17191464**
IDC II 01 07 38 07.2–1.0 22.14N 145.93E 0 3.8,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.5km s-min=18.4km az=170.6.
IDC Error ellipse: s-maj=33.9km s-min=21.6km az=82.0.
ISC II 04 01 40 31.5–.66 22.56N–.09 145.1E–.10 10 4.0b 29 5-148
ISCJB II 04 01 40 29.6–.51 22.53N–.07 145.0E–.10 10 3.9b,3.2s **¶16029579**
IDC II 04 01 40 29.4–.66 22.48N 145.07E 0 4.2,4.1L
NEIC II 04 01 40 32.5–4.6 22.47N 145.06E 21–32 4.3b,4.1L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.1km s-min=7.6km az=155.3.
IDC Error ellipse: s-maj=23.7km s-min=17.3km az=94.0.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=10.3km az=93.0.
ISC II 11 00 48 29.4–.50 23.36N–.06 145.12E–.06 10 4.6b,4.2s 77 5-148
IDC II 11 00 48 20.1–.57 22.50N 144.74E 0 4.3,4.3L **¶16021076**
ISCJB II 11 00 48 27.0–.35 23.34N–.05 145.12E–.05 10 4.5b,4.0s
BJI II 11 00 48 26.1 23.30N 145.10E 20 5.1b,4.8s
NEIC II 11 00 48 29.0–.50 23.35N 145.09E 10 4.7b,4.8s
ISC Event type se.
IDC Error ellipse: s-maj=21.1km s-min=13.9km az=79.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=6.0km az=26.1.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=10.4km az=201.0.
ISC III 04 15 26 10.9–.61 22.31N–.08 145.5E–.10 36 4.0b 35 6-148
IDC III 04 15 26 05.1–.67 22.19N 145.67E 0 4.1,4.0 **¶16425230**
NEIC III 04 15 26 06.8–.43 22.28N 145.66E 10 4.3b,4.0
ISCJB III 04 15 26 09.3–.49 22.32N–.06 145.5E–.10 36 4.0b,4.0
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 04 15 28 06.3–1.3 22.5N–.20 145.7E–.20 10 4.0b 21 6-144
IDC III 04 15 28 02.9–.75 22.14N 145.68E 0 4.1,4.1L **¶16425231**
NEIC III 04 15 28 04.5–.49 22.18N 145.62E 10 4.3b,4.1L
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=17.1km az=82.0.
NEIC Event type se. Error ellipse: s-maj=16.9km s-min=10.2km az=75.0.
ISC III 14 01 08 06.9–.61 22.1N–.10 145.6E–.10 36 4.5b 50 6-148
IDC III 14 01 08 01.0–.65 22.06N 145.73E 0 4.6,4.5 **¶16409286**

ISCJB	III	14 01 08 05.2–.48	22.09N–.08	145.61E–.07	36	4.5b,4.5		
NEIC	III	14 01 08 07.9–1.7	22.08N	145.61E	47–14	4.4b,4.5		
ISC	Event type se.							
IDC	Error ellipse: s-maj=19.7km s-min=16.0km az=49.0.							
ISCJB	Event type se. Error ellipse: s-maj=12.5km s-min=9.3km az=23.1.							
NEIC	Event type se. Error ellipse: s-maj=10.7km s-min=9.1km az=151.0.							
ISC	**III**	**14 05 08 17.0–.82**	**22.2N–.10**	**145.4E–.20**	**36**	**4.0b**	**12**	**6-148**
IDC	III	14 05 08 11.6–.76	22.11N	145.62E	0	4.4,4.4L		**¶16477737**
ISCJB	III	14 05 08 15.2–.81	22.19N–.10	145.2E–.20	36	4.1b,4.4L		
ISC	Event type ke.							
ISCJB	Event type ke.							
IDC	**III**	**18 14 31 45.6–8.7**	**22.79N**	**146.21E**	**0**	**3.7,3.5**		
								¶17197029
IDC	Error ellipse: s-maj=310.9km s-min=35.6km az=75.0.							
ISC	**III**	**25 14 40 57.8–1.9**	**13.6N–.30**	**126.1W–.30**	**10**	**3.6b**	**11**	**26-149**
ISCJB	III	25 14 40 56.5–3.9	13.7N–.60	126.2W–.20	10	3.7b		**¶17198516**
IDC	III	25 14 40 59.5–1.7	14.09N	126.23W	0	4.0,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=83.0km s-min=31.7km az=169.7.							
IDC	Error ellipse: s-maj=38.5km s-min=37.9km az=85.0.							
IDC	**IV**	**17 20 47 00.5–327**	**0.83N**	**126.59W**	**0**			
								¶17201356
IDC	Error ellipse: s-maj=241.9km s-min=123.4km az=82.0.							
IDC	**IV**	**22 02 04 41.8–443**	**3.41N**	**129.69W**	**0**			
								¶17201771
IDC	Error ellipse: s-maj=284.9km s-min=174.5km az=80.0.							
ISC	**V**	**10 04 58 27.4–1.0**	**22.2N–.10**	**145.5E–.20**	**36**	**3.4b**	**8**	**6-86**
IDC	V	10 04 58 21.8–1.1	22.11N	145.67E	0	3.8,3.8L		**¶17203175**
ISCJB	V	10 04 58 25.7–.95	22.2N–.10	145.3E–.20	36	3.7s,3.4b		
ISC	Event type ke.							
ISCJB	Event type ke.							

(613) Hawaiian Islands.

NEIC	**I**	**08 12 31 50.0**	**19.34N**	**155.06W**	**9**	**3.5**		
								¶601989003
NEIC	Event type fe. Felt [III] at Captain Cook. Also felt at Hilo, Holualoa, Kailua Kona, Kea'au, Kurtistown, Pahoa and Papa'ikou. After HVO.							
NEIC	**II**	**10 18 30 12.0**	**19.38N**	**155.24W**	**4**	**3.8**		
								¶16358564
NEIC	Event type fe. Felt [III] at Volcano and [II] at Hawaii National Park. Also felt at Hilo, Mountain View and Papa'ikou. After HVO.							
NEIC	**II**	**25 00 12 33.0**	**21.18N**	**157.55W**	**19**	**3.6L,3.6L**		
								¶16158857
NEIC	Event type fe. Felt [III] at Honolulu, Kailua, Kane'ohe and Marine Corps Base Hawaii; [II] at 'Aiea, Camp Smith, Ewa Beach, Kapolei, Mililani Town, Waimanalo and Waipahu. Felt [III] at Kualapu'u and [II] at Kaunakakai, Moloka'i and [II] at Makawao, Maui. Felt on Lana'i and in much of O'ahu, Moloka'i and Maui. After HON.							
ISC	**III**	**11 08 58 25.3–1.7**	**19.54N–.08**	**155.1W–.10**	**14**	**5.0b**	**21**	**0-104**
BJI	III	11 08 58 24.0	19.30N	155.00W	15	5.6b		**¶16304096**
NEIC	III	11 08 58 25.7	19.34N	154.99W	9	4.6L		
ISC	Event type fe.							
NEIC	Event type fe. Felt [IV] at Hakalau, Mountain View, Pa'auilo, Papa'ikou and Pepeekeo; [III] at Captain Cook, Hawaii National Park, Hilo, Kea'au, Kurtistown, 'O'okala, Pahoa and Volcano; [II] at Honoka'a, Honomu, Kailua Kona, Ninole, Waikoloa and Waimea. Felt throughout the Island of Hawai'i and in parts of Maui, Moloka'i and O'ahu. After HVO.							
NEIC	**IV**	**02 20 09 17.0**	**19.34N**	**155.25W**	**0**	**3.6**		
								¶16577639
NEIC	Event type se. After HVO.							
NEIC	**V**	**21 02 17 40.4**	**20.12N**	**157.77W**	**16**	**3.5L**		
								¶16719711
NEIC	Event type se. After HVO.							

(614) Eastern Caroline Islands region.

IDC	**III**	**24 23 12 25.3–1.1**	**6.67N**	**147.59E**	**0**	**3.8,3.6**		
								¶17198415
IDC	Error ellipse: s-maj=46.5km s-min=21.9km az=102.0.							

(627) Cook Islands region.

IDC	**IV**	**11 22 39 40.3–42**	**17.17S**	**165.60W**	**0**	**4.4,4.2**		
								¶17200698
IDC	Error ellipse: s-maj=871.1km s-min=206.8km az=83.0.							

(632) South Pacific Ocean.

ISC	**I**	**27 06 37 20.8–.51**	**49.2S–.10**	**118.5W–.10**	**10**	**4.2b,3.8s**	**57**	**32-166**
ISCJB	I	27 06 37 19.7–.63	49.3S–.10	118.5W–.20	10	4.5b,3.8s		**¶16135912**
IDC	I	27 06 37 19.6–.61	49.27S	118.55W	0	4.5,4.2		
NEIC	I	27 06 37 21.2–.32	49.18S	118.52W	10	4.9b,4.2		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=17.6km s-min=16.1km az=21.2.							
IDC	Error ellipse: s-maj=36.6km s-min=20.2km az=167.0.							
NEIC	Event type se. Error ellipse: s-maj=14.7km s-min=11.4km az=176.0.							
ISC	**IV**	**01 10 39 56.2–.83**	**6.8S–.20**	**122.1W–.20**	**10**	**4.8b,3.8s**	**326**	**18-148**
ISCJB	IV	01 10 39 47.4–1.3	7.9S–.20	122.00W–.09	10	4.7b,3.8s		**¶16413018**
IDC	IV	01 10 39 54.4–1.2	6.84S	122.31W	0	4.6,4.4		
NEIC	IV	01 10 39 56.4–.55	6.84S	122.25W	10	4.8b,4.4		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=25.5km s-min=12.0km az=4.8.							
IDC	Error ellipse: s-maj=42.0km s-min=22.7km az=63.0.							
NEIC	Event type se. Error ellipse: s-maj=15.0km s-min=11.2km az=67.0.							
ISC	**VI**	**10 15 32 52.8–2.3**	**6.70S–.07**	**122.79W–.07**	**33–8**	**5.5b,4.5s**	**985**	**17-159**
ISCJB	VI	10 15 32 46.4–.36	6.81S–.05	122.63W–.04	10	5.4b,4.5s		**¶16587368**
IDC	VI	10 15 32 47.7–.56	6.54S	122.89W	0	4.9,4.8		
NEIC	VI	10 15 32 48.9–.23	6.73S	122.74W	10	5.5b,4.5s		
MOS	VI	10 15 32 48.4–1.0	6.51S	122.65W	10	5.5b,4.5s		
GCMT	VI	10 15 32 49.0–.20	6.57S	122.71W	12	5.1W,4.5s		
BJI	VI	10 15 32 49.4	6.70S	122.70W	10	5.4b,5.1s		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=7.2km s-min=5.0km az=20.1.							
IDC	Error ellipse: s-maj=22.3km s-min=15.0km az=69.0.							
NEIC	Event type se. Error ellipse: s-maj=5.8km s-min=4.8km az=72.0.							
MOS	Error ellipse: s-maj=12.8km s-min=5.3km az=79.9.							
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s64,c86; s118,c198; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.62±.10 $M_{\theta\theta}$-0.57±.10; $M_{\phi\phi}$-5.04±.09; $M_{r\theta}$-3.91±.32; $M_{\theta\phi}$0.08±.08; $M_{\phi r}$0.72±.27; Best double couple: NP1:ϕ_s332.00000°,δ56.00000°,λ59.00000°. NP2:ϕ_s199.00000°,δ45.00000°,λ127.00000°. Principal axes: T 7.5410,Plg64.0000°,Azm186.0000°; N -2.4100,Plg25.0000°,Azm351.0000° ; P -5.1250,Plg6.0000°,Azm84.0000° M_o6.33300×10^{16}							

SEISMIC REGION 40.
Arctic Zone.

(636) Eastern Kalaallit Nunaat.

ISC	**I**	**16 04 18 47.4–.74**	**65.11N–.07**	**39.13W–.07**	**10**	**3.6b**	**20**	**5-60**
ISCJB	I	16 04 18 46.0–.58	65.05N–.06	39.3W–.20	10	3.5s,3.5b		**¶15937914**
IDC	I	16 04 18 46.4–1.0	65.08N	39.15W	0	3.8,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=10.4km s-min=7.6km az=41.2.							
IDC	Error ellipse: s-maj=27.3km s-min=17.9km az=2.0.							
IDC	**V**	**22 04 49 14.0–999**	**68.58N**	**28.29W**	**0**			
								¶17204188
IDC	Error ellipse: s-maj=1061.0km s-min=298.3km az=124.0.							
ISC	**VI**	**15 21 14 18.4–.34**	**79.23N–.04**	**18.61W–.04**	**10**	**4.4b,3.1s**	**335**	**2-123**
ISCJB	VI	15 21 14 16.9–.22	79.28N–.03	18.9W–.20	10	4.3b,3.1s		**¶16614404**
MOS	VI	15 21 14 17.0–1.2	79.20N	18.74W	10	4.4b,3.1s		
IDC	VI	15 21 14 17.8–.58	79.21N	18.62W	0	4.2,4.1		
NEIC	VI	15 21 14 18.9–.25	79.21N	18.80W	10	4.4b,4.1		
CSEM	VI	15 21 14 18.9–.14	79.32N	18.24W	10	4.5b,4.1		
NAO	VI	15 21 14 25.3–10	78.99N	15.96W	12–120	4.8L,4.1		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=3.9km az=31.1.							
MOS	Error ellipse: s-maj=26.1km s-min=6.0km az=95.4.							
IDC	Error ellipse: s-maj=15.2km s-min=11.8km az=34.0.							
NEIC	Event type se. Error ellipse: s-maj=7.8km s-min=4.6km az=219.0.							
CSEM	Event type ke. Error ellipse: s-maj=6.5km s-min=4.9km az=40.0.							
NAO	Error ellipse: s-maj=0.7km s-min=1.0km az=-1.0.							

(637) Iceland region.

ISC	**II**	**27 09 06 00.4–.83**	**63.94N–.02**	**22.01W–.02**	**6–5**	**3.5b,3.5s**	**89**	**0-59**
ISCJB	II	27 09 05 59.0–.31	63.94N–.03	22.02W–.04	11–2	3.6s,3.5b		**¶16168251**
CSEM	II	27 09 05 59.5	63.93N	22.04W	5	3.3L,3.5b		
REY	II	27 09 05 59.5	63.93N	22.04W	5	3.3L,3.5b		
IDC	II	27 09 05 59.6–.99	64.00N	21.88W	0	3.9,3.6		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.3km s-min=2.7km az=170.4.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
IDC	Error ellipse: s-maj=21.1km s-min=10.5km az=104.0.							
ISC	**II**	**27 09 49 04.4–.72**	**63.94N–.03**	**22.02W–.02**	**10**	**3.5b**	**64**	**0-53**
IASPE	II	27 09 49 02.9–1.3	63.94N–.03	22.02W–.02	7–7	3.5b		**¶16168259**
ISCJB	II	27 09 49 02.6–.34	63.94N–.03	22.01W–.04	10	3.4b,3.4s		
CSEM	II	27 09 49 02.7	63.94N	22.03W	2	3.6L,3.4s		
REY	II	27 09 49 02.7	63.94N	22.03W	2	3.6L,3.4s		
IDC	II	27 09 49 03.4–1.2	63.78N	22.34W	0	3.7,3.5		
ISC	Event type ke.							
IASPE	Event type ke. Error ellipse: s-maj=4.0km s-min=2.5km az=174.1. GT5 selection from ISC bulletin. GT5 identified by Bond˙¡r and McLaughlin (2009) selection criteria. Bond˙¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=2.5km az=172.3.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
IDC	Error ellipse: s-maj=57.9km s-min=21.8km az=40.0.							
ISC	**II**	**27 17 27 37.2–.82**	**63.92N–.02**	**22.00W–.01**	**4–5**	**3.7b,3.6s**	**102**	**0-82**
ISCJB	II	27 17 27 36.3–.29	63.93N–.02	22.01W–.04	9–2	3.7b,3.6s		**¶16168290**
CSEM	II	27 17 27 36.6	63.91N	22.03W	5	3.7L,3.6s		
REY	II	27 17 27 36.6	63.91N	22.03W	5	3.7L,3.6s		
IDC	II	27 17 27 37.4–.85	63.98N	21.92W	0	3.8L,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=2.6km az=174.4.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
IDC	Error ellipse: s-maj=17.2km s-min=10.0km az=96.0.							
REY	**III**	**02 17 56 53.6**	**63.89N**	**22.05W**	**4**			
CSEM	III	02 17 56 53.6	63.89N	22.05W	4	3.2L		**¶600535861**
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**III**	**25 01 56 39.6–4.0**	**67.86N–.05**	**18.32W–.06**	**10–26**	**3.7s,3.6b**	**66**	**1-83**
ISCJB	III	25 01 56 38.9–1.1	67.91N–.03	18.3W–.10	15–8	3.6s,3.6b		**¶17198439**
IDC	III	25 01 56 38.4–.79	67.98N	18.50W	0	3.9,3.8		
REY	III	25 01 56 39.2	67.95N	18.09W	10	3.9,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=8.2km s-min=4.6km az=8.5.							
IDC	Error ellipse: s-maj=18.6km s-min=15.4km az=46.0.							
IDC	**V**	**01 22 16 32.1–3.1**	**61.15N**	**28.10W**	**0**	**3.6,3.6L**		
								¶17202565
IDC	Error ellipse: s-maj=79.3km s-min=24.2km az=163.0.							
ISC	**VI**	**03 14 04 10.6–.72**	**62.25N–.09**	**26.47W–.09**	**15**	**3.8b,3.1s**	**21**	**3-89**
IDC	VI	03 14 04 07.9–.79	62.14N	26.52W	0	4.0,4.0L		**¶17205100**
ISCJB	VI	03 14 04 08.7–.59	62.23N–.07	26.4W–.20	15	3.8b,3.1s		
ISC	Event type ke.							
ISCJB	Event type ke.							

(638) Iceland.

ISC	**I**	**13 09 06 38.7–.69**	**64.3N–.20**	**17.65W–.10**	**9**	**3.4b**	**12**	**2-58**
ISCJB	I	13 09 06 36.7–.64	64.3N–.10	17.3W–.20	9	3.5b,3.4s		**¶17190043**
IDC	I	13 09 06 37.3–.80	64.35N	17.55W	0	4.3L,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=21.0km s-min=8.1km az=27.4.							
IDC	Error ellipse: s-maj=27.8km s-min=14.3km az=36.0.							
ISC	**I**	**13 09 22 23.3–.71**	**64.45N–.02**	**17.32W–.02**	**4–4**	**4.0b,3.5s**	**122**	**0-60**
REY	I	13 09 22 22.4	64.42N	17.27W	0	4.0b,3.5s		**¶15925945**
CSEM	I	13 09 22 22.8–.15	64.48N	17.34W	2	2.7L,3.5s		
IASPE	I	13 09 22 22.3–1.2	64.43N–.02	17.28W–.02	2–9	4.0b,3.5s		
IDC	I	13 09 22 23.4–.64	64.38N	17.36W	0	4.1,3.9		
NEIC	I	13 09 22 24.8–.45	64.37N	17.39W	10	4.2b,3.9		
MOS	I	13 09 22 24.3–1.2	64.48N	17.04W	10	4.2b,3.9		
ISC	Event type ke.							
CSEM	Event type ke. Error ellipse: s-maj=4.7km s-min=3.6km az=142.0.							
IASPE	Event type ke. Error ellipse: s-maj=4.2km s-min=2.5km az=139.3. GT5 selection from ISC bulletin. GT5 identified by Bond˙¡r and McLaughlin (2009) selection criteria. Bond˙¡r and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.							
IDC	Error ellipse: s-maj=20.7km s-min=10.9km az=24.0.							
NEIC	Event type se. Error ellipse: s-maj=13.9km s-min=7.5km az=206.0.							
MOS	Error ellipse: s-maj=19.7km s-min=11.5km az=124.7.							
ISC	**II**	**12 10 05 41.5–1.0**	**64.57N–.02**	**20.61W–.02**	**6–8**	**3.6s,3.6b**	**171**	**0-54**
ISCJB	II	12 10 05 41.4–.46	64.59N–.01	20.61W–.04	13–3	3.5b,3.5s		**¶17192111**
REY	II	12 10 05 42.6	64.58N	20.60W	9	3.5b,3.5s		
CSEM	II	12 10 05 42.6	64.58N	20.60W	9	3.1L,3.5s		
IDC	II	12 10 05 42.9–.81	64.70N	20.62W	0	3.9L,3.8		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=3.0km s-min=2.1km az=33.5.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
IDC	Error ellipse: s-maj=30.0km s-min=6.2km az=6.0.							
ISC	**II**	**12 14 25 00.1–1.0**	**64.59N–.02**	**20.57W–.02**	**23–4**			**92 0-6**
ISCJB	II	12 14 24 59.6–.41	64.61N–.02	20.60W–.05	26–4			**¶600528424**
CSEM	II	12 14 25 01.1	64.60N	20.57W	10	3.2L		
REY	II	12 14 25 01.1	64.60N	20.57W	9	3.2L		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=4.0km s-min=3.4km az=167.5.							
CSEM	Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.							
ISC	**II**	**25 01 19 19.8–.57**	**64.4N–.10**	**17.42W–.07**	**9**	**3.9b**	**28**	**2-60**
ISCJB	II	25 01 19 18.4–.43	64.36N–.08	17.3W–.10	9	3.8b		**¶16339058**
IDC	II	25 01 19 18.8–.69	64.37N	17.38W	0	4.4L,3.9		
NEIC	II	25 01 19 19.9–.42	64.34N	17.44W	10	4.2b,3.9		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=12.4km s-min=6.9km az=24.7.							
IDC	Error ellipse: s-maj=19.0km s-min=12.3km az=27.0.							
NEIC	Event type se. Error ellipse: s-maj=11.7km s-min=7.1km az=33.0.							
ISC	**IV**	**03 14 09 05.5–.71**	**64.4N–.10**	**17.50W–.09**	**10**	**3.4b**	**15**	**2-53**
ISCJB	IV	03 14 09 04.0–.55	64.4N–.10	17.3W–.20	10	3.5b		**¶16499043**
IDC	IV	03 14 09 04.3–.84	64.45N	17.48W	0	4.1L,3.8		
NEIC	IV	03 14 09 05.5–.64	64.36N	17.57W	10	4.5b,3.8		
ISC	Event type se.							
ISCJB	Event type se. Error ellipse: s-maj=17.2km s-min=8.0km az=25.7.							
IDC	Error ellipse: s-maj=27.6km s-min=15.6km az=36.0.							
NEIC	Event type se. Error ellipse: s-maj=22.6km s-min=10.2km az=38.0.							
ISC	**V**	**21 18 44 17.6–.71**	**64.4N–.20**	**17.62W–.08**	**9**	**3.5b**	**16**	**2-53**
ISCJB	V	21 18 44 16.6–.54	64.5N–.10	17.4W–.10	9	3.5b		**¶17204155**
IDC	V	21 18 44 16.5–.93	64.40N	17.57W	0	3.7,3.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=19.3km s-min=7.2km az=15.2.							
IDC	Error ellipse: s-maj=27.1km s-min=15.4km az=21.0.							
ISC	**V**	**21 18 45 38.5–.69**	**64.4N–.20**	**17.71W–.08**	**9**	**3.6b**	**17**	**2-53**
ISCJB	V	21 18 45 37.2–.52	64.4N–.10	17.5W–.10	9	3.5b		**¶17204156**
IDC	V	21 18 45 37.4–.87	64.37N	17.69W	0	3.7,3.5		
ISC	Event type ke.							
ISCJB	Event type ke. Error ellipse: s-maj=18.7km s-min=7.0km az=18.9.							
IDC	Error ellipse: s-maj=27.4km s-min=14.7km az=22.0.							
ISC	**V**	**21 18 47 02.9–.81**	**64.40N–.02**	**17.33W–.02**	**3–5**	**3.8b**	**166**	**0-53**
IASPE	V	21 18 47 02.6–.87	64.41N–.02	17.34W–.02	8–6	3.8b		**¶17204157**
ISCJB	V	21 18 47 02.5–.31	64.41N–.02	17.35W–.04	7–2	3.6b		
CSEM	V	21 18 47 03.2	64.38N	17.27W	0	2.6L		
REY	V	21 18 47 03.2	64.38N	17.27W	0	2.6L		
IDC	V	21 18 47 03.7–.79	64.34N	17.49W	0	3.9,3.8		

ISC Event type ke.
IASPE Event type ke. Error ellipse: s-maj=3.7km s-min=2.0km az=135.5. GT5 selection from ISC bulletin. GT5 identified by Bondˆjr and McLaughlin (2009) selection criteria. Bondˆjr and McLaughlin, A new ground truth data set for seismic studies, Seism. Res. Let., 80, 465-472, 2009.
ISCJB Event type ke. Error ellipse: s-maj=3.7km s-min=2.0km az=138.3.
CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC Error ellipse: s-maj=24.9km s-min=13.4km az=27.0.

ISC	**V**	**21 18 53 23.0–.65**	**64.2N–.10**	**17.66W–.09**	**10**	**3.7b**	**20**	**2-60**
ISCJB	V	21 18 53 21.5–.47	64.2N–.10	17.6W–.20	10	3.6b		¶17204158
IDC	V	21 18 53 21.6–.79	64.20N	17.69W	0	3.8,3.7		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.9km s-min=6.4km az=24.9.
IDC Error ellipse: s-maj=26.2km s-min=13.2km az=30.0.

ISC	**V**	**21 18 58 26.3–.72**	**64.2N–.20**	**17.7W–.10**	**9**	**3.5b**	**16**	**2-53**
IDC	V	21 18 58 25.0–.86	64.25N	17.59W	0	3.7,3.6L		¶17204159
ISCJB	V	21 18 58 25.0–.52	64.2N–.20	17.6W–.20	9	3.4b,3.6L		

ISC Event type ke.
ISCJB Event type ke.

ISC	**V**	**21 19 05 53.8–.50**	**64.3N–.10**	**17.47W–.06**	**9**	**4.3b,3.4s**	**91**	**2-62**
ISCJB	V	21 19 05 52.8–.30	64.27N–.07	17.4W–.10	9	4.2b,3.3s		¶16710540
IDC	V	21 19 05 52.7–.89	64.24N	17.59W	0	4.2L,3.9		
CSEM	V	21 19 05 53.0–.15	64.33N	17.31W	2	4.4b,3.9		
NEIC	V	21 19 05 54.6–.30	64.30N	17.28W	10	4.4b,3.9		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=4.7km az=32.8.
IDC Error ellipse: s-maj=31.4km s-min=14.4km az=36.0.
CSEM Event type ke. Error ellipse: s-maj=10.5km s-min=4.6km az=35.0.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=4.7km az=218.0.

IDC	**V**	**21 19 16 58.0–276**	**64.69N**	**17.37W**	**0**			
								¶17204161

IDC Error ellipse: s-maj=152.6km s-min=142.1km az=143.0.

IDC	**V**	**21 21 25 10.8–249**	**63.76N**	**18.78W**	**0**			
								¶17204166

IDC Error ellipse: s-maj=148.7km s-min=132.2km az=28.0.

IDC	**V**	**21 23 38 11.6–445**	**64.18N**	**20.78W**	**0**			
								¶17204170

IDC Error ellipse: s-maj=389.3km s-min=149.6km az=40.0.

IDC	**V**	**22 01 40 28.5–272**	**63.88N**	**18.46W**	**0**			
								¶17204174

IDC Error ellipse: s-maj=184.6km s-min=143.3km az=25.0.

IDC	**V**	**22 04 49 13.3–418**	**64.21N**	**16.25W**	**0**			
								¶17204187

IDC Error ellipse: s-maj=288.3km s-min=154.3km az=92.0.

IDC	**V**	**22 05 49 13.7–392**	**64.03N**	**17.47W**	**0**			
								¶17204194

IDC Error ellipse: s-maj=269.5km s-min=156.8km az=87.0.

(639) Jan Mayen Island region.

ISC	**I**	**03 23 59 41.8–1.8**	**71.26N–.06**	**8.4W–.20**	**10**		**8**	**0-6**
ISCJB	I	03 23 59 40.7–1.5	71.30N–.05	8.2W–.70	10			¶16906162
BER	I	03 23 59 42.0–.43	71.13N	7.83W	10	3.2L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.7km s-min=7.6km az=2.9.
BER Error ellipse: s-maj=12.8km s-min=26.2km az=-1.0.

ISC	**I**	**06 03 23 58.6–.29**	**70.76N–.04**	**6.50W–.03**	**9**	**4.5b,3.8s**	**360**	**1-146**
BJI	I	06 03 23 55.3	70.70N	6.40W	10	5.0b,4.9s		¶15906299
NAO	I	06 03 23 57.0–3.6	70.75N	6.52W	15–43	4.8L,4.9s		
CSEM	I	06 03 23 57.3–.14	70.81N	6.34W	10	4.4b,4.9s		
MOS	I	06 03 23 57.1–1.2	70.94N	6.44W	10	4.5b,4.9s		
IDC	I	06 03 23 57.4–.47	70.89N	6.43W	0	4.3,4.2L		
ISCJB	I	06 03 23 57.3–.14	70.65N–.02	6.64W–.05	9	4.4b,3.8s		
BER	I	06 03 23 58.3–2.1	70.76N	6.48W	10	4.8L,4.6L		
NEIC	I	06 03 23 59.8–.21	70.88N	5.99W	10	4.6b,4.6L		
REY	I	06 03 24 02.3	70.27N	6.88W	10	4.6b,4.6L		

ISC Event type ke.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.2km az=1.0.
MOS Error ellipse: s-maj=14.7km s-min=4.9km az=98.8.
IDC Error ellipse: s-maj=15.0km s-min=10.1km az=47.0.
ISCJB Event type ke. Error ellipse: s-maj=2.6km s-min=2.2km az=173.2.
BER Error ellipse: s-maj=4.8km s-min=9.4km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=4.2km az=211.0.

ISC	**I**	**29 06 55 26.3–.43**	**70.87N–.02**	**6.91W–.02**	**6–2**	**6.0s,6.0b**	**3170**	**0-173**
IDC	I	29 06 55 24.9–.28	70.94N	6.99W	0	5.9,5.8		¶15979160
NAO	I	29 06 55 24.6–4.6	70.89N	6.71W	9–57	6.1L,5.8		
ISCJB	I	29 06 55 24.9–.05	70.886N–.01	7.03W–.02	10	6.0s,5.9b		
MOS	I	29 06 55 24.8–.90	70.93N	6.78W	10	6.1b,5.9s		
BJI	I	29 06 55 25.7	71.18N	6.50W	13	6.3s,6.0		
CSEM	I	29 06 55 25.6–.04	70.89N	6.89W	5	6.4s,6.2W		
GCMT	I	29 06 55 26.1–.10	70.99N	6.65W	17–0	6.2W,6.2W		
BER	I	29 06 55 26.0–2.5	70.79N	6.89W	10	6.1L,6.0L		
NEIC	I	29 06 55 26.0–.00	70.96N	6.78W	15	6.1L,6.0L		
NEIC	I	29 06 55 27.5–.07	70.93N	6.66W	15	6.5,6.2W		
REY	I	29 06 55 28.5	70.71N	8.39W	4	6.5,6.2W		
NEIC	I	29 06 55 34.5–.00	70.96N	6.90W	10	6.5,6.2W		

ISC Event type ke.
IDC Error ellipse: s-maj=8.7km s-min=6.8km az=38.0.
NAO Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=1.6km s-min=0.9km az=34.4.
MOS Error ellipse: s-maj=10.1km s-min=3.5km az=100.8.
CSEM Event type ke. Error ellipse: s-maj=2.1km s-min=1.3km az=41.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c284; s140,c523;Duration: 3s2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.34±.01 $M_{\theta\theta}$2.17±.02; $M_{\phi\phi}$-1.83±.01; $M_{r\theta}$-0.33±.04; $M_{\theta\phi}$1.79±.01; $M_{\phi r}$0.71±.04; Best double couple: NP1:ϕ_s113.00000°,δ78.00000°,λ-14.00000°. NP2:ϕ_s205.00000°,δ77.00000°,λ-168.00000°. Principal axes: T 2.8550,Plg1.0000°,Azm159.0000° ; N -0.0890,Plg72.0000°,Azm252.0000°; P -2.7670,Plg18.0000°,Azm69.0000° M_o2.81100×10^{18}
BER Error ellipse: s-maj=6.7km s-min=12.3km az=-1.0.
NEIC Event type se. Moment Tensor Solution. s47 Moment tensor: Scale 10^{18}Nm; M_{rr}0.21 $M_{\theta\theta}$1.66 $M_{\phi\phi}$-1.87 $M_{r\theta}$0.83 $M_{\theta\phi}$1.19 $M_{\phi r}$0.01 Best double couple: NP1:ϕ_s119.00000° ,δ79.00000°,λ19.00000°. NP2:ϕ_s26.00000°,δ71.00000°,λ168.00000°. Principal axes: T 2.3300,Plg21.0000°,Azm344.0000°; N -0.0700,Plg68.0000°,Azm148.0000° ; P -2.2600,Plg6.0000°,Azm252.0000° M_o2.30000×10^{18}
NEIC Event type se. Error ellipse: s-maj=2.5km s-min=1.5km az=213.0. Depth from synthetics of broadband displacement seismograms. Energy computed from BB mechanism. Moment Tensor Solution. s83 Moment tensor: Scale 10^{18}Nm; M_{rr}0.12 $M_{\theta\theta}$1.15 $M_{\phi\phi}$-1.28 $M_{r\theta}$0.41 $M_{\theta\phi}$0.72 $M_{\phi r}$0.44 Best double couple: NP1:ϕ_s121.00000°,δ67.00000°,λ7.00000°. NP2: ϕ_s28.00000°,δ84.00000°,λ157.00000°. Principal axes: T 1.5300,Plg20.0000°,Azm342.0000° ; N 0.0000,Plg67.0000°,Azm194.0000°; P -1.5400,Plg11.0000°,Azm77.0000° M_o1.50000×10^{18} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1: ϕ_s13.00000°,δ80.00000°,λ170.00000°. NP2:ϕ_s105.00000°,δ80.00000°,λ10.00000°. Principal axes: T Plg14.0000°,Azm329.0000°; N Plg0.0000°,Azm0.0000°; P Plg0.0000° ,Azm59.0000°
NEIC Event type se. Moment Tensor Solution. s42 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.30 $M_{\theta\theta}$1.97 $M_{\phi\phi}$-1.66 $M_{r\theta}$-0.43 $M_{\theta\phi}$1.59 $M_{\phi r}$-1.30 Best double couple: NP1:ϕ_s293.00000° ,δ60.00000°,λ-6.00000°. NP2:ϕ_s26.00000°,δ85.00000°,λ-150.00000°. Principal axes: T 2.8200,Plg17.0000°,Azm156.0000°; N -0.0700,Plg60.0000°,Azm35.0000° ; P -2.7500,Plg25.0000°,Azm254.0000° M_o2.80000×10^{18}

BER	**I**	**29 07 34 59.9–.71**	**70.94N**	**6.99W**	**3–257**	**2.7L**		
								¶16910677

BER Error ellipse: s-maj=47.6km s-min=999.9km az=-1.0.

BER	**I**	**29 08 28 39.6–.50**	**71.00N**	**6.99W**	**3–317**	**2.8L,1.9**		
								¶16910694

BER Error ellipse: s-maj=19.4km s-min=999.9km az=-1.0.

ISC	**I**	**29 09 31 39.4–1.0**	**70.89N–.08**	**7.10W–.06**	**16**		**42**	**0-11**
ISCJB	I	29 09 31 36.6–.64	70.77N–.04	6.8W–.10	16			¶602426847
NAO	I	29 09 31 37.8–2.9	70.88N	6.85W		3.1L		
CSEM	I	29 09 31 39.3–.19	70.85N	7.06W	15	3.3L		
BER	I	29 09 31 40.0–1.4	70.87N	7.00W	5–26	3.3L		
REY	I	29 09 31 49.8	70.82N	10.20W	10	3.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.3km az=34.5.
NAO Error ellipse: s-maj=0.5km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=150.0.
BER Error ellipse: s-maj=17.3km s-min=29.5km az=-1.0.

BER	**I**	**29 10 01 10.8–.37**	**70.93N**	**6.82W**	**3–425**	**3.5L**		
								¶16910722

BER Error ellipse: s-maj=81.5km s-min=999.9km az=-1.0.

ISC	**I**	**29 10 09 05.3–.69**	**70.94N–.06**	**7.34W–.04**	**16**	**3.4b**	**106**	**0-58**
IDC	I	29 10 09 01.5–7.1	71.38N	7.20W	0	3.7,3.6		¶15990260
ISCJB	I	29 10 09 02.9–.39	70.82N–.03	7.10W–.08	16	3.4b,3.6		
NAO	I	29 10 09 03.5–1.5	70.96N	6.93W		3.6L,3.6		
CSEM	I	29 10 09 04.2–.16	70.88N	7.18W	10	3.9L,3.6		
BER	I	29 10 09 05.3–1.5	70.89N	7.12W	8–21	3.9L,3.6L		
REY	I	29 10 09 07.1	70.82N	8.59W	10	3.9L,3.6L		

ISC Event type ke.
IDC Error ellipse: s-maj=133.2km s-min=36.5km az=150.0.
ISCJB Event type ke. Error ellipse: s-maj=4.3km s-min=3.4km az=143.4.
NAO Error ellipse: s-maj=0.3km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=3.3km az=147.0.
BER Error ellipse: s-maj=10.7km s-min=27.6km az=-1.0.

ISC	**I**	**29 10 25 19.2–.66**	**70.85N–.06**	**6.75W–.04**	**16**		**126**	**1-16**
IDC	I	29 10 25 16.3–1.3	70.83N	7.04W	0	3.8,3.7		¶16136112
ISCJB	I	29 10 25 17.3–.29	70.75N–.02	6.60W–.06	16	3.8,3.7		
CSEM	I	29 10 25 18.7–.15	70.83N	6.68W	10	3.7L,3.7		
NAO	I	29 10 25 18.8–5.6	70.86N	6.66W	6–71	3.9L,3.7		
BER	I	29 10 25 20.5–3.0	70.79N	6.78W	19–44	3.9L,3.7L		
REY	I	29 10 25 23.9	70.60N	8.01W	10	3.9L,3.7L		

ISC Event type ke.
IDC Error ellipse: s-maj=30.2km s-min=14.4km az=15.0.
ISCJB Event type ke. Error ellipse: s-maj=3.5km s-min=2.5km az=157.9.
CSEM Event type ke. Error ellipse: s-maj=4.2km s-min=2.7km az=168.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
BER Error ellipse: s-maj=14.1km s-min=65.8km az=-1.0.

BER	**I**	**29 10 57 42.5–.31**	**70.99N**	**6.95W**	**10**	**3.5L**		
								¶16910729

BER Error ellipse: s-maj=9.5km s-min=7.3km az=-1.0.

ISC	**I**	**29 11 00 04.3–.27**	**70.84N–.04**	**7.00W–.03**	**16**	**4.7b,3.8s**	**490**	**0-128**
NAO	I	29 11 00 00.9–3.6	70.89N	6.84W	11–47	4.7L,3.8s		¶15979653
IDC	I	29 11 00 01.5–.39	70.97N	6.92W	0	4.3,4.1L		
ISCJB	I	29 11 00 02.6–.14	70.75N–.02	7.13W–.04	16	4.5b,3.8s		
MOS	I	29 11 00 02.1–1.2	71.09N	6.87W	10	4.8b,3.8s		
BER	I	29 11 00 02.5–2.3	70.87N	6.90W	12–12	4.7L,4.2L		
BJI	I	29 11 00 02.3	71.40N	6.94W	9	5.1b,4.9s		
NEIC	I	29 11 00 03.6–.14	70.97N	6.79W	10	4.8b,4.9s		
CSEM	I	29 11 00 03.0–.09	70.89N	6.86W	12	4.7b,3.8s		
REY	I	29 11 00 06.5	70.50N	7.65W	10	4.7b,3.8s		

ISC Event type ke.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
IDC Error ellipse: s-maj=12.7km s-min=5.9km az=10.0.
ISCJB Event type ke. Error ellipse: s-maj=2.5km s-min=2.0km az=151.0.
MOS Error ellipse: s-maj=15.4km s-min=5.7km az=101.0.
BER Error ellipse: s-maj=5.0km s-min=12.7km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.7km s-min=2.7km az=212.0.
CSEM Event type ke. Error ellipse: s-maj=4.0km s-min=3.0km az=18.0.

ISC	**I**	**29 11 07 33.1–1.6**	**71.05N–.06**	**7.0W–.10**	**16**		**56**	**0-7**
CSEM	I	29 11 07 33.0–.52	70.92N	6.85W	10	3.6L		¶15995078
BER	I	29 11 07 34.1–.55	70.98N	6.94W	10	3.6L		
REY	I	29 11 07 37.8	70.69N	8.07W	10	3.6L		

ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.1km s-min=5.6km az=70.0.
BER Error ellipse: s-maj=16.4km s-min=11.5km az=-1.0.

ISC	**I**	**29 13 06 30.3–.63**	**70.90N–.05**	**6.80W–.04**	**16**		**94**	**0-58**
IDC	I	29 13 06 29.0–1.2	70.92N	6.59W	0	3.7,3.7		¶16005306
ISCJB	I	29 13 06 28.5–.36	70.76N–.03	6.67W–.07	16	3.2b,3.7		
NAO	I	29 13 06 29.5–4.5	70.88N	6.65W	5–55	3.5L,3.7		
CSEM	I	29 13 06 30.1–.17	70.84N	6.79W	10	3.7L,3.7		
BER	I	29 13 06 30.9–2.6	70.80N	6.77W	8–29	3.7L,3.5L		
REY	I	29 13 06 35.2	70.41N	7.34W	10	3.7L,3.5L		

ISC Event type ke.
IDC Error ellipse: s-maj=28.1km s-min=8.7km az=12.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=3.1km az=167.0.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.4km s-min=3.3km az=172.0.
BER Error ellipse: s-maj=11.1km s-min=42.1km az=-1.0.

BER	**I**	**29 18 02 37.6–.49**	**71.15N**	**6.83W**	**10**	**3.4L,2.3**		
								¶15995088

BER Error ellipse: s-maj=19.6km s-min=18.2km az=-1.0.

ISC	**I**	**29 18 33 45.9–.87**	**70.97N–.07**	**7.30W–.06**	**16**		**39**	**0-16**
ISCJB	I	29 18 33 42.6–.55	70.98N–.06	7.4W–.20	16			¶15995090
CSEM	I	29 18 33 44.9–.30	70.80N	6.75W	10	3.5L		
NAO	I	29 18 33 44.4–2.1	70.94N	6.89W		3.3L		
BER	I	29 18 33 45.9–2.0	70.80N	7.13W	15–89	3.5L,3.3L		
REY	I	29 18 33 49.3	70.51N	7.51W	10	3.5L,3.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=4.1km az=36.9.
CSEM Event type ke. Error ellipse: s-maj=20.0km s-min=5.4km az=128.0.
NAO Error ellipse: s-maj=0.4km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=43.8km s-min=224.5km az=-1.0.

ISC	**I**	**30 04 51 50.3–.82**	**70.86N–.06**	**6.72W–.05**	**9**		**60**	**1-16**
ISCJB	I	30 04 51 48.0–.49	70.78N–.03	6.62W–.09	9			¶16005310
NAO	I	30 04 51 49.5–4.6	70.93N	6.66W	5–55	3.1L		
CSEM	I	30 04 51 50.2–.17	70.87N	6.73W	10	3.3L		
BER	I	30 04 51 50.8–1.4	70.85N	6.70W	3–20	3.3L,3.1L		
REY	I	30 04 51 54.8	70.11N	5.96W	10	3.3L,3.1L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=4.3km az=161.3.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=4.5km s-min=3.3km az=172.0.
BER Error ellipse: s-maj=8.0km s-min=25.3km az=-1.0.

ISC	**I**	**30 10 10 04.3–.60**	**70.90N–.06**	**6.68W–.04**	**9**	**3.5b**	**74**	**1-58**
ISCJB	I	30 10 10 01.6–.36	70.83N–.03	6.50W–.07	9	3.5b		¶15981242
IDC	I	30 10 10 02.4–.86	70.97N	7.28W	0	3.7,3.6		
NAO	I	30 10 10 03.3–4.4	70.93N	6.56W	4–51	3.3L,3.6		
CSEM	I	30 10 10 04.9–.12	70.91N	6.76W	20	3.6L,3.6		
BER	I	30 10 10 05.0–1.9	70.84N	6.69W	7–23	3.6L,3.3L		
REY	I	30 10 10 08.2	70.33N	6.53W	10	3.6L,3.3L		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.0km az=8.0.
IDC Error ellipse: s-maj=21.0km s-min=10.4km az=11.0.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.4km az=179.0.
BER Error ellipse: s-maj=8.4km s-min=32.2km az=-1.0.

ISC	**I**	**30 16 27 59.3–1.3**	**70.75N–.05**	**6.87W–.04**	**7–9**	**3.6b,3.3s**	**166**	**1-78**
ISCJB	I	30 16 27 57.5–.65	70.75N–.03	6.64W–.06	17–6	3.6b,3.4s		¶15981253
IDC	I	30 16 27 58.1–.57	70.80N	7.35W	0	3.9,3.8		
NAO	I	30 16 27 58.0–4.5	70.81N	6.68W	5–54	4.1L,3.8		
CSEM	I	30 16 27 58.1–.13	70.81N	6.68W	5	4.0L,3.8		
REY	I	30 16 28 02.2	70.73N	8.16W	10	4.0L,3.8		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.0km az=151.7.
IDC Error ellipse: s-maj=19.0km s-min=9.5km az=27.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.7km az=158.0.

ISC	**I**	**30 16 36 01.3–.76**	**70.91N–.06**	**6.89W–.05**	**16**	**3.6b**	**77**	**0-65**
ISCJB	I	30 16 35 58.2–.40	70.87N–.03	6.65W–.09	16	3.5b		¶15995111
NAO	I	30 16 35 59.2–3.6	70.82N	6.76W	10–48	3.4L		
CSEM	I	30 16 36 00.4–.18	70.94N	6.83W	15	3.5L		
IDC	I	30 16 36 01.0–1.0	70.84N	6.04W	0	3.7,3.6		
BER	I	30 16 36 01.5–2.3	70.89N	6.87W	15–42	3.5L,3.6		

REY I 30 16 36 04.3 70.37N 6.68W 10 3.5L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.5km s-min=3.4km az=139.4.
NAO Error ellipse: s-maj=0.2km s-min=0.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.2km s-min=3.7km az=150.0.
IDC Error ellipse: s-maj=28.3km s-min=18.2km az=34.0.
BER Error ellipse: s-maj=13.2km s-min=45.5km az=-1.0.
ISC I 30 22 54 36.1–.56 70.99N–.09 6.86W–.05 16 3.1b 48 0-65
IDC I 30 22 54 33.5–.69 70.91N 7.31W 0 3.5,3.4 **¶16005313**
ISCJB I 30 22 54 34.2–.39 71.02N–.06 6.59W–.09 16 3.2s,3.1b
CSEM I 30 22 54 35.3–.37 70.99N 6.65W 2 3.5L,3.1b
BER I 30 22 54 36.6–2.6 70.90N 6.76W 10 4.3L,3.5L
NAO I 30 22 54 36.0–1.6 71.04N 6.79W 4.3L,3.5L
ISC Event type ke.
IDC Error ellipse: s-maj=23.7km s-min=9.1km az=21.0.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=4.1km az=179.1.
CSEM Event type ke. Error ellipse: s-maj=15.7km s-min=7.2km az=179.0.
BER Error ellipse: s-maj=13.2km s-min=15.7km az=-1.0.
NAO Error ellipse: s-maj=0.3km s-min=0.1km az=-1.0.
BER I 31 14 56 40.2–.37 71.19N 7.02W 12–2 2.6L
¶16910860
BER Error ellipse: s-maj=14.2km s-min=19.8km az=-1.0.
BER I 31 15 49 55.9–.57 71.18N 7.30W 10 3.5L
¶16910861
BER Error ellipse: s-maj=16.2km s-min=26.7km az=-1.0.
ISC II 05 00 01 21.1–.38 70.85N–.04 6.99W–.04 16 4.0b,3.4s 233 0-73
ISCJB II 05 00 01 18.7–.21 70.73N–.02 6.94W–.05 16 4.0b,3.3s **¶16006250**
NAO II 05 00 01 18.9–5.1 70.83N 6.86W 7–64 4.4L,3.3s
IDC II 05 00 01 18.7–.55 70.89N 7.34W 0 4.1,4.0L
CSEM II 05 00 01 19.7–.10 70.84N 6.94W 10 4.2b,4.0L
NEIC II 05 00 01 20.6–.22 70.88N 6.83W 10 4.1b,4.0L
BER II 05 00 01 22.3–3.7 70.85N 7.13W 7–34 4.4L,3.9L
REY II 05 00 01 23.9 70.65N 8.36W 10 4.4L,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=3.2km s-min=2.2km az=144.6.
NAO Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0.
IDC Error ellipse: s-maj=17.1km s-min=9.5km az=23.0.
CSEM Event type ke. Error ellipse: s-maj=3.6km s-min=2.8km az=156.0.
NEIC Event type se. Error ellipse: s-maj=5.4km s-min=3.9km az=220.0.
BER Error ellipse: s-maj=12.2km s-min=54.4km az=-1.0.
ISC II 05 16 44 56.3–.66 70.87N–.06 6.85W–.04 16 3.6b 118 0-37
IDC II 05 16 44 52.9–2.1 71.15N 7.34W 0 3.9,3.8 **¶16007309**
ISCJB II 05 16 44 53.8–.29 70.82N–.03 6.77W–.06 16 3.5b,3.8
NAO II 05 16 44 55.3–4.6 70.87N 6.81W 5–58 3.7L,3.8
CSEM II 05 16 44 56.0–.10 70.90N 6.92W 15 3.2L,3.8
BER II 05 16 44 56.7–2.2 70.86N 6.96W 10 3.7L,3.2L
REY II 05 16 45 02.3 69.98N 6.25W 10 3.7L,3.2L
ISC Event type ke.
IDC Error ellipse: s-maj=49.0km s-min=10.6km az=175.0.
ISCJB Event type ke. Error ellipse: s-maj=3.9km s-min=2.5km az=157.3.
NAO Error ellipse: s-maj=0.2km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.4km s-min=2.0km az=160.0.
BER Error ellipse: s-maj=8.7km s-min=10.3km az=-1.0.
ISC II 05 17 43 23.1–1.6 71.03N–.06 6.88W–.09 16 53 0-7
ISCJB II 05 17 43 22.9–1.2 70.81N–.04 6.9W–.20 16 **¶16910913**
CSEM II 05 17 43 24.1–.34 70.93N 6.94W 15 3.1L
BER II 05 17 43 24.3–.55 71.04N 6.92W 12–3 3.1L,2.8
REY II 05 17 43 28.4 70.46N 7.09W 17 3.1L,2.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.8km s-min=4.4km az=159.8.
CSEM Event type ke. Error ellipse: s-maj=6.6km s-min=3.9km az=61.0.
BER Error ellipse: s-maj=25.3km s-min=12.5km az=-1.0.
ISC III 06 05 25 47.2–.39 70.91N–.04 6.48W–.03 8–2 4.4b,3.7s 316 1-146
BJI III 06 05 25 45.1 70.90N 6.20W 10 4.9b,4.6s **¶16196706**
IDC III 06 05 25 45.4–.43 70.91N 6.20W 0 4.2,4.1
BER III 06 05 25 46.3–1.4 70.87N 6.23W 10 3.9L,4.1
ISCJB III 06 05 25 46.4–.99 70.77N–.02 6.55W–.05 13–6 4.3b,3.7s
CSEM III 06 05 25 46.6–.08 70.83N 6.42W 5 4.5b,3.7s
NEIC III 06 05 25 47.7–.16 70.90N 6.11W 10 4.6b,3.7s
REY III 06 05 25 48.8 70.97N 8.29W 10 4.6b,3.7s
ISC Event type ke.
IDC Error ellipse: s-maj=14.9km s-min=9.2km az=40.0.
BER Error ellipse: s-maj=20.3km s-min=18.7km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=2.9km az=172.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.7km az=21.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=3.3km az=214.0.
ISC III 17 02 31 57.1–.99 71.31N–.06 9.07W–.07 18 58 0-7
ISCJB III 17 02 31 54.7–.66 71.33N–.04 9.60W–.10 18 **¶16911944**
CSEM III 17 02 31 57.1–.83 71.26N 9.45W 10 3.0L
REY III 17 02 31 59.1 70.68N 8.18W 10 3.0L
BER III 17 02 31 59.0–.43 71.27N 8.96W 10 3.0L,2.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=4.6km az=170.8.
CSEM Event type ke. Error ellipse: s-maj=16.7km s-min=6.0km az=178.0.
BER Error ellipse: s-maj=3.2km s-min=13.0km az=-1.0.
ISC III 22 05 47 50.0–1.2 71.2N–.20 7.8W–.20 20 26 0-10
ISCJB III 22 05 47 48.0–.69 71.3N–.20 7.7W–.80 20 **¶16401086**
NAO III 22 05 47 48.3–4.2 71.10N 7.42W 4.0L
CSEM III 22 05 47 49.3–.18 71.22N 7.81W 10 3.4L
BER III 22 05 47 49.6–1.4 71.04N 7.43W 10 4.0L,3.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=46.3km s-min=4.5km az=39.8.
NAO Error ellipse: s-maj=0.9km s-min=0.5km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=26.4km s-min=2.8km az=130.0.
BER Error ellipse: s-maj=18.4km s-min=26.5km az=-1.0.
ISC III 24 17 00 20.9–.95 70.84N–.06 6.82W–.05 16 64 1-11
ISCJB III 24 17 00 17.9–.52 70.73N–.03 6.5W–.10 16 **¶16401094**
NAO III 24 17 00 18.5–3.6 70.75N 6.65W 3.3L
CSEM III 24 17 00 20.0–.16 70.80N 6.71W 10 3.5L
BER III 24 17 00 20.7–.97 70.74N 6.74W 10 3.5L,3.2L
REY III 24 17 00 24.4 70.52N 7.60W 10 3.5L,3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.3km s-min=3.6km az=24.1.
NAO Error ellipse: s-maj=0.5km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=3.7km s-min=2.8km az=126.0.
BER Error ellipse: s-maj=9.7km s-min=7.6km az=-1.0.
ISC III 25 01 37 49.3–.94 71.8N–.10 1.6W–.10 10 3.4b 9 8-66
ISCJB III 25 01 37 47.1–.83 71.79N–.09 1.4W–.40 10 3.2b **¶17198436**
IDC III 25 01 37 47.8–1.1 71.70N 1.68W 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.3km s-min=11.7km az=146.8.
IDC Error ellipse: s-maj=27.8km s-min=18.4km az=42.0.
ISC III 27 04 43 28.7–.81 70.61N–.07 13.5W–.10 10 3.2b,2.9s 29 2-58
IDC III 27 04 43 29.3–.92 70.80N 14.23W 0 3.6,3.5 **¶17198728**
REY III 27 04 43 30.4 70.26N 12.93W 10 3.6,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=26.0km s-min=16.1km az=51.0.
ISC IV 22 20 26 37.8–2.4 69.04N–.09 15.9W–.20 10 38 3-3
ISCJB IV 22 20 26 37.6–1.4 69.00N–.07 16.1W–.50 10 **¶600328747**
CSEM IV 22 20 26 38.9–.35 69.06N 15.86W 20 3.2L
REY IV 22 20 26 39.4 68.98N 15.88W 25 3.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=26.0km s-min=8.5km az=168.6.
CSEM Event type ke. Error ellipse: s-maj=12.8km s-min=3.9km az=72.0.
ISC V 02 08 39 40.5–.51 70.13N–.05 15.34W–.06 10 3.7b,3.1s 77 2-62
ISCJB V 02 08 39 37.8–.40 70.09N–.03 15.2W–.20 10 3.7b,3.2s **¶16489781**
CSEM V 02 08 39 37.3–.22 70.14N 15.12W 2 3.6L,3.2s
REY V 02 08 39 38.8 69.88N 14.00W 4 3.6L,3.2s
IDC V 02 08 39 40.2–.62 70.08N 15.98W 0 4.0,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.8km s-min=3.9km az=7.2.
CSEM Event type ke. Error ellipse: s-maj=10.7km s-min=4.4km az=100.0.
IDC Error ellipse: s-maj=21.6km s-min=12.0km az=28.0.
BER V 05 23 25 03.8–.96 71.52N 9.61W 3–999 2.6,2.4L
¶601004528
BER Error ellipse: s-maj=999.9km s-min=999.9km az=-1.0.
ISC V 13 16 53 32.1–3.9 71.2N–.20 7.2W–.20 16 10 0-6
BER V 13 16 53 30.7–.74 70.98N 7.03W 0–277 3.2L,2.8 **¶601004860**
ISC Event type ke.
BER Error ellipse: s-maj=20.9km s-min=999.9km az=-1.0.
ISC V 14 03 12 38.7–2.8 71.28N–.05 7.9W–.30 10 11 0-6
BER V 14 03 12 36.5–.78 71.00N 7.09W 0–303 3.0L **¶601004902**
ISC Event type ke.
BER Error ellipse: s-maj=19.9km s-min=999.9km az=-1.0.
BER V 21 19 46 29.9–1.2 71.05N 8.09W 10 3.6L,1.9
¶601005945
BER Error ellipse: s-maj=8.3km s-min=17.0km az=-1.0.
ISC VI 07 06 15 07.4–.45 71.78N–.05 11.60W–.05 10 4.3s,4.1b 107 1-93
ISCJB VI 07 06 15 05.4–.31 71.87N–.04 11.8W–.10 10 4.2s,4.0b **¶16577414**
IDC VI 07 06 15 05.5–.68 71.59N 11.84W 0 4.1,4.0s
BER VI 07 06 15 05.0–2.4 71.46N 12.03W 10 4.3L,3.3L
NEIC VI 07 06 15 07.5–.36 71.75N 11.79W 10 4.2b,3.3L
CSEM VI 07 06 15 07.1–.15 71.78N 11.81W 10 4.4b,3.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=4.9km az=44.7.
IDC Error ellipse: s-maj=23.9km s-min=13.4km az=32.0.
BER Error ellipse: s-maj=12.7km s-min=64.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=8.7km s-min=6.5km az=21.0.
CSEM Event type ke. Error ellipse: s-maj=5.9km s-min=5.0km az=25.0.
ISC VI 09 13 40 53.5–.99 70.91N–.06 7.02W–.06 16 56 0-11
NAO VI 09 13 40 50.8–3.7 70.71N 6.66W 3.7L **¶16596649**
CSEM VI 09 13 40 52.6–.27 70.81N 6.78W 10 3.8L
BER VI 09 13 40 55.4–1.8 70.72N 7.14W 10 3.8L,3.7L
REY VI 09 13 40 57.9 70.90N 9.35W 10 3.8L,3.7L
ISC Event type ke.
NAO Error ellipse: s-maj=0.5km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.0km s-min=4.9km az=142.0.
BER Error ellipse: s-maj=16.8km s-min=14.3km az=-1.0.
ISC VI 18 09 13 41.4–3.6 71.63N–.08 6.7W–.30 9 6 1-6
BER VI 18 09 13 43.0–.32 71.03N 5.93W 0 2.9,2.2L **¶601006373**
ISC Event type ke.
BER Error ellipse: s-maj=36.7km s-min=15.2km az=-1.0.
ISC VI 22 04 26 00.9–.71 70.86N–.09 6.73W–.04 16 48 1-58
ISCJB VI 22 04 25 59.3–.46 70.93N–.06 6.56W–.09 16 3.2b,2.9s **¶16646385**
NAO VI 22 04 25 59.0–2.0 70.78N 6.69W 3.7L,2.9s
CSEM VI 22 04 26 00.1–.31 70.83N 6.71W 10 4.0L,2.9s
BER VI 22 04 26 01.1–2.6 70.75N 6.85W 10 4.0L,3.7L
IDC VI 22 04 26 01.8–1.5 70.71N 6.32W 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.0km az=179.7.
NAO Error ellipse: s-maj=0.3km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.4km s-min=4.9km az=8.0.
BER Error ellipse: s-maj=14.5km s-min=15.0km az=-1.0.
IDC Error ellipse: s-maj=58.8km s-min=23.8km az=48.0.

(640) Greenland Sea.

ISC I 10 01 12 04.2–.39 78.42N–.05 2.08W–.04 10 4.0b,3.0s 88 3-122
IDC I 10 01 12 02.8–.42 78.43N 1.64W 0 4.1,4.0 **¶15925766**
ISCJB I 10 01 12 02.2–.29 78.35N–.04 1.8W–.20 10 4.0b,3.1s
CSEM I 10 01 12 03.3–.17 78.46N 1.56W 10 4.2b,3.1s
BER I 10 01 12 04.4–4.2 78.47N 0.52W 10 3.3L,2.5L
NEIC I 10 01 12 04.1–.31 78.47N 1.34W 10 4.2b,2.5L
NAO I 10 01 12 12.3–6.3 78.27N 2.62E 10–29 3.3L,2.5L
ISC Event type ke.
IDC Error ellipse: s-maj=14.4km s-min=8.9km az=28.0.
ISCJB Event type ke. Error ellipse: s-maj=6.4km s-min=4.6km az=24.1.
CSEM Event type ke. Error ellipse: s-maj=7.2km s-min=5.2km az=23.0.
BER Error ellipse: s-maj=28.1km s-min=93.5km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=5.7km az=26.0.
NAO Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0.
ISC I 20 12 30 27.7–1.2 75.49N–.05 8.88E–.09 10 3.6b,3.2s 42 2-67
ISCJB I 20 12 30 26.2–.91 75.51N–.05 8.9E–.30 10 3.5b,3.1s **¶15963024**
IDC I 20 12 30 26.1–1.4 75.46N 7.73E 0 3.8,3.8L
BER I 20 12 30 27.3–2.4 75.46N 8.14E 10 3.5L,2.4L
CSEM I 20 12 30 27.6–.51 75.53N 8.83E 10 2.4L,2.4L
NAO I 20 12 30 28.9–2.7 75.47N 9.41E 3.5L,2.4L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=6.6km az=166.8.
IDC Error ellipse: s-maj=27.3km s-min=17.5km az=58.0.
BER Error ellipse: s-maj=7.4km s-min=50.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=12.3km s-min=6.2km az=71.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
ISC III 04 15 36 50.0–1.6 73.08N–.07 6.3E–.10 11 35 4-14
IDC III 04 15 36 48.3–2.6 72.95N 5.72E 0 3.5,3.5 **¶16295201**
ISCJB III 04 15 36 48.5–1.0 73.00N–.05 6.4E–.30 11 3.5,3.5
NAO III 04 15 36 49.5–2.6 73.00N 6.12E 2.9L,3.5
CSEM III 04 15 36 50.4–.24 73.03N 6.28E 10 2.9L,3.5
BER III 04 15 36 50.4–1.6 72.98N 5.57E 10 2.9L,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=34.0km s-min=18.3km az=84.0.
ISCJB Event type ke. Error ellipse: s-maj=12.5km s-min=6.8km az=162.3.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=7.4km s-min=3.1km az=77.0.
BER Error ellipse: s-maj=7.4km s-min=45.6km az=-1.0.
ISC III 05 11 00 04.3–1.6 79.3N–.20 2.84E–.08 10 8 5-42
ISCJB III 05 11 00 02.6–1.6 79.3N–.20 2.2E–.40 10 3.2b **¶16245332**
IDC III 05 11 00 07.4–5.3 79.64N 5.53E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.2km s-min=9.4km az=179.7.
IDC Error ellipse: s-maj=101.0km s-min=33.9km az=77.0.
ISC III 07 23 03 56.4–.71 73.06N–.08 5.92E–.07 11 3.5b,3.4s 54 4-68
ISCJB III 07 23 03 54.6–.53 73.03N–.04 5.7E–.20 11 3.4b,3.3s **¶16269117**
IDC III 07 23 03 54.4–.91 72.93N 4.93E 0 3.8,3.6
NAO III 07 23 03 56.0–2.4 72.99N 5.84E 3.6L,3.6
CSEM III 07 23 03 58.0–.36 73.04N 6.12E 10 2.8L,3.6
BER III 07 23 04 00.3–3.4 73.09N 6.04E 10 3.6L,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.6km s-min=6.0km az=167.8.
IDC Error ellipse: s-maj=26.2km s-min=13.4km az=59.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.8km s-min=5.0km az=87.0.
BER Error ellipse: s-maj=9.5km s-min=62.0km az=-1.0.
ISC III 09 04 11 05.2–1.6 73.02N–.09 6.5E–.10 11 30 4-14
ISCJB III 09 04 11 01.9–1.4 73.02N–.06 5.9E–.50 11 **¶603049251**
BER III 09 04 11 04.7–2.3 73.01N 5.93E 1–50 3.0L
CSEM III 09 04 11 04.7–.38 73.03N 6.26E 10 3.0L
NAO III 09 04 11 04.3–2.3 73.01N 6.27E 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=8.7km az=2.1.
BER Error ellipse: s-maj=9.9km s-min=78.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=11.5km s-min=5.3km az=87.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
ISC III 15 11 45 45.4–1.5 73.02N–.09 6.6E–.10 11 29 4-13
ISCJB III 15 11 45 43.5–1.1 72.98N–.05 6.7E–.40 11 **¶603049810**
NAO III 15 11 45 44.1–2.5 72.99N 6.27E 3.0L
BER III 15 11 45 45.9–2.2 73.04N 6.18E 0–51 3.0L
CSEM III 15 11 45 45.0–.32 73.02N 6.36E 10 3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=7.8km az=176.8.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
BER Error ellipse: s-maj=8.9km s-min=79.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=4.2km az=90.0.

ISC	**III**	**19 02 34 00.1–.92**	**73.41N–.06**	**8.41E–.09**	**10**	**3.1b**	**37**	**4-41**	
ISCJB	III	19 02 33 59.0–.73	73.40N–.04	9.0E–.20	10	3.0b			**¶16401075**
IDC	III	19 02 33 58.4–1.0	73.27N	7.19E	0	3.5,3.3			
CSEM	III	19 02 34 00.3–.64	73.49N	8.05E	10	3.2L,3.3			
NAO	III	19 02 34 01.1–1.8	73.45N	8.52E		3.2L,3.3			
BER	III	19 02 34 02.1–3.4	73.45N	7.87E	15–86	3.2L,3.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.7km s-min=6.3km az=172.9.								
IDC	Error ellipse: s-maj=25.8km s-min=13.1km az=66.0.								
CSEM	Event type ke. Error ellipse: s-maj=26.6km s-min=8.8km az=96.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.								
BER	Error ellipse: s-maj=11.7km s-min=143.6km az=-1.0.								
ISC	**III**	**20 03 14 31.7–1.1**	**73.42N–.08**	**8.2E–.10**	**11**	**3.3b**	**30**	**4-41**	
CSEM	III	20 03 14 29.8–.67	73.41N	7.46E	10	3.0L			**¶16401077**
ISCJB	III	20 03 14 30.9–.89	73.45N–.06	8.8E–.30	11	3.1b			
IDC	III	20 03 14 30.7–1.4	73.34N	7.63E	0	3.6,3.5			
NAO	III	20 03 14 30.0–2.3	73.39N	7.79E		3.0L,3.5			
BER	III	20 03 14 31.5–1.9	73.40N	7.42E	12–41	3.0L,3.5			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=26.4km s-min=9.6km az=81.0.								
ISCJB	Event type ke. Error ellipse: s-maj=13.4km s-min=6.6km az=154.1.								
IDC	Error ellipse: s-maj=30.9km s-min=15.6km az=75.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
BER	Error ellipse: s-maj=10.1km s-min=80.2km az=-1.0.								
ISC	**III**	**20 09 09 57.9–.71**	**79.09N–.09**	**3.27E–.05**	**10**	**3.7b**	**53**	**2-66**	
ISCJB	III	20 09 09 56.4–.60	78.88N–.10	3.0E–.30	10	3.5b			**¶16401080**
IDC	III	20 09 09 57.5–.95	79.16N	2.73E	0	3.7,3.6			
BER	III	20 09 09 58.2–3.2	79.49N	4.91E	0–17	2.2,3.6			
NAO	III	20 09 09 59.4–3.5	79.40N	5.41E	1–16	3.5L,3.6			
CSEM	III	20 09 10 00.6–1.3	79.17N	5.64E	2	3.5L,3.6			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=14.8km s-min=6.1km az=21.5.								
IDC	Error ellipse: s-maj=24.0km s-min=16.1km az=29.0.								
BER	Error ellipse: s-maj=34.1km s-min=92.7km az=-1.0.								
NAO	Error ellipse: s-maj=0.4km s-min=0.2km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=31.8km s-min=14.4km az=160.0.								
ISC	**III**	**25 15 54 32.7–.83**	**74.68N–.06**	**9.58E–.09**	**10**	**3.6b,3.3s**	**40**	**3-62**	
ISCJB	III	25 15 54 31.1–.68	74.69N–.04	9.7E–.30	10	3.5b,3.3s			**¶16401161**
CSEM	III	25 15 54 31.9–1.1	74.66N	9.63E	10	3.6L,3.3s			
IDC	III	25 15 54 31.5–.92	74.52N	9.10E	0	3.8,3.7			
BER	III	25 15 54 32.4–2.1	74.63N	9.14E	4–23	3.6L,2.3L			
NAO	III	25 15 54 34.2–6.4	74.63N	9.75E	15–73	3.6L,2.3L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=10.9km s-min=5.8km az=6.8.								
CSEM	Event type ke. Error ellipse: s-maj=32.2km s-min=12.8km az=73.0.								
IDC	Error ellipse: s-maj=20.1km s-min=11.2km az=59.0.								
BER	Error ellipse: s-maj=9.0km s-min=73.1km az=-1.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.7km az=-1.0.								
ISC	**IV**	**14 15 52 06.7–.46**	**75.46N–.04**	**8.11E–.04**	**14–2**	**4.4b,3.9s**	**405**	**2-147**	
BJI	IV	14 15 52 03.6	75.57N	7.83E	9	5.0b,4.8s			**¶602602208**
MOS	IV	14 15 52 04.8–1.4	75.37N	8.31E	10	4.4b,4.8s			
CSEM	IV	14 15 52 04.0–.10	75.40N	7.99E	2	4.5b,3.4s			
IDC	IV	14 15 52 04.2–.53	75.38N	7.62E	0	4.2,4.1			
NEIC	IV	14 15 52 05.7–.21	75.36N	7.87E	10	4.5b,4.1			
BER	IV	14 15 52 08.3–4.3	75.54N	9.12E	3–35	4.3L,2.9			
NAO	IV	14 15 52 08.7–4.5	75.41N	8.96E	27–48	4.3L,2.9			
ISC	Event type ke.								
MOS	Error ellipse: s-maj=22.2km s-min=4.4km az=95.2.								
CSEM	Event type ke. Error ellipse: s-maj=5.0km s-min=3.1km az=66.0.								
IDC	Error ellipse: s-maj=13.6km s-min=9.5km az=66.0.								
NEIC	Event type se. Error ellipse: s-maj=6.0km s-min=3.8km az=65.0.								
BER	Error ellipse: s-maj=8.4km s-min=81.3km az=-1.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
ISC	**IV**	**21 00 12 04.8–1.0**	**73.85N–.05**	**9.94E–.10**	**10**	**3.0s**	**50**	**3-35**	
ISCJB	IV	21 00 12 03.2–.65	73.81N–.03	10.4E–.20	10	3.0s,2.9b			**¶16462908**
BER	IV	21 00 12 05.9–3.7	73.85N	9.64E	0–25	3.4L,2.7			
CSEM	IV	21 00 12 05.5–.31	73.93N	9.90E	10	3.4L,2.7			
NAO	IV	21 00 12 06.8–1.7	73.95N	10.72E		3.4L,2.7			
IDC	IV	21 00 12 08.0–4.5	73.43N	9.80E	0	3.4,3.2			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.5km s-min=4.2km az=164.0.								
BER	Error ellipse: s-maj=8.1km s-min=74.6km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=10.1km s-min=3.7km az=81.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.								
IDC	Error ellipse: s-maj=56.5km s-min=20.2km az=174.0.								
ISC	**IV**	**21 06 39 01.3–1.8**	**73.34N–.08**	**7.9E–.10**	**11**		**15**	**4-14**	
ISCJB	IV	21 06 38 59.8–1.1	73.32N–.05	8.2E–.30	11				**¶16707580**
IDC	IV	21 06 39 00.7–2.7	73.24N	7.64E	0	3.4,3.3			
BER	IV	21 06 39 02.7–1.8	73.36N	7.28E	10	2.1L,3.3			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=13.6km s-min=6.9km az=5.8.								
IDC	Error ellipse: s-maj=36.8km s-min=20.8km az=74.0.								
BER	Error ellipse: s-maj=6.2km s-min=62.2km az=-1.0.								
ISC	**V**	**01 09 56 30.7–1.7**	**79.8N–.20**	**1.06E–.08**	**10**		**38**	**2-43**	
CSEM	V	01 09 56 23.9–.46	80.41N	0.48W	10	3.2L			**¶16489778**
BER	V	01 09 56 27.7–5.7	80.49N	1.00E	15–134	3.3L,2.7L			
IDC	V	01 09 56 30.0–5.8	80.04N	0.90E	0	3.5,3.4			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=15.5km s-min=5.7km az=1.0.								
BER	Error ellipse: s-maj=97.9km s-min=234.3km az=-1.0.								
IDC	Error ellipse: s-maj=111.0km s-min=38.4km az=73.0.								
CSEM	**V**	**02 00 20 12.2–.78**	**79.38N**	**2.94E**	**10**	**2.5L**			
BER	V	02 00 20 15.2–4.4	79.92N	4.93E	10–385	2.9,2.4L			**¶16497396**
NAO	V	02 00 20 15.1–3.9	79.82N	5.51E		2.5L,2.4L			
CSEM	Event type ke. Error ellipse: s-maj=36.5km s-min=10.6km az=8.0.								
BER	Error ellipse: s-maj=194.1km s-min=999.9km az=-1.0.								
NAO	Error ellipse: s-maj=0.5km s-min=0.2km az=-1.0.								
ISC	**V**	**05 23 23 11.0–.53**	**79.10N–.07**	**2.91E–.04**	**10**	**3.8b,3.4s**	**75**	**2-120**	
ISCJB	V	05 23 23 10.0–.47	79.09N–.06	3.5E–.30	10	3.9b,3.4s			**¶16578015**
IDC	V	05 23 23 10.7–.61	79.16N	2.84E	0	4.1,4.0			
CSEM	V	05 23 23 11.5–.30	79.23N	4.21E	10	3.7L,4.0			
NEIC	V	05 23 23 11.2–.63	79.18N	2.64E	10	4.1b,4.0			
BER	V	05 23 23 14.7–1.4	79.15N	4.42E	10	3.7L,3.2L			
NAO	V	05 23 23 17.7–2.6	78.85N	5.87E		3.7L,3.2L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=10.0km s-min=5.9km az=27.5.								
IDC	Error ellipse: s-maj=17.2km s-min=10.6km az=47.0.								
CSEM	Event type ke. Error ellipse: s-maj=12.9km s-min=7.6km az=30.0.								
NEIC	Event type se. Error ellipse: s-maj=15.3km s-min=10.0km az=213.0.								
BER	Error ellipse: s-maj=12.8km s-min=50.1km az=-1.0.								
NAO	Error ellipse: s-maj=0.3km s-min=0.1km az=-1.0.								
ISC	**V**	**13 06 16 34.1–1.5**	**73.64N–.09**	**8.0E–.10**	**10**		**21**	**3-10**	
ISCJB	V	13 06 16 30.7–1.3	73.60N–.08	7.7E–.40	10				**¶16512057**
CSEM	V	13 06 16 37.8–.65	73.78N	9.26E	10	1.6L			
BER	V	13 06 16 37.7–2.1	73.68N	8.97E	0–27	2.9L,1.6L			
NAO	V	13 06 16 40.0–3.4	73.84N	10.25E		2.9L,1.6L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=15.9km s-min=9.3km az=147.9.								
CSEM	Event type ke. Error ellipse: s-maj=18.3km s-min=6.8km az=69.0.								
BER	Error ellipse: s-maj=11.6km s-min=80.6km az=-1.0.								
NAO	Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0.								
ISC	**V**	**16 20 12 42.3–.92**	**73.49N–.06**	**8.20E–.10**	**11**	**3.2b**	**49**	**3-41**	
ISCJB	V	16 20 12 40.0–.69	73.41N–.04	8.1E–.30	11	3.2b			**¶16530149**
IDC	V	16 20 12 40.8–1.0	73.36N	7.61E	0	3.5,3.4			
CSEM	V	16 20 12 42.2–.28	73.41N	7.86E	20	3.3L,3.4			
NAO	V	16 20 12 42.9–9.2	73.37N	7.61E	24–81	3.3L,3.4			
BER	V	16 20 12 43.5–3.8	73.39N	7.90E	15–58	3.3L,2.2			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=10.7km s-min=5.9km az=167.0.								
IDC	Error ellipse: s-maj=20.7km s-min=11.2km az=65.0.								
CSEM	Event type ke. Error ellipse: s-maj=9.9km s-min=3.5km az=87.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
BER	Error ellipse: s-maj=12.2km s-min=104.6km az=-1.0.								
ISC	**V**	**25 16 08 41.7–.44**	**74.23N–.04**	**9.60E–.05**	**10**	**4.2b,3.5s**	**179**	**3-122**	
IDC	V	25 16 08 39.1–.60	74.14N	8.81E	0	3.9,3.8			**¶16544940**
ISCJB	V	25 16 08 39.8–.33	74.25N–.03	9.6E–.20	10	4.2b,3.6s			
NEIC	V	25 16 08 40.9–.36	74.23N	9.13E	10	4.5b,3.6s			
MOS	V	25 16 08 40.5–1.6	74.38N	9.03E	10	4.4b,3.6s			
BER	V	25 16 08 40.1–3.0	74.19N	9.33E	10	3.9L,2.8L			
CSEM	V	25 16 08 40.6–.24	74.26N	9.55E	10	4.4b,2.8L			
NAO	V	25 16 08 42.5–4.1	74.28N	10.74E	2–37	3.9L,2.8L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=14.3km s-min=9.6km az=65.0.								
ISCJB	Event type ke. Error ellipse: s-maj=6.9km s-min=4.5km az=160.6.								
NEIC	Event type se. Error ellipse: s-maj=9.2km s-min=5.8km az=63.0.								
MOS	Error ellipse: s-maj=28.0km s-min=6.0km az=94.0.								
BER	Error ellipse: s-maj=6.8km s-min=30.0km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=10.1km s-min=5.7km az=70.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
ISC	**V**	**25 16 10 44.5–.77**	**74.27N–.06**	**9.93E–.10**	**10**	**3.6b**	**20**	**3-122**	
IDC	V	25 16 10 42.9–.88	74.18N	9.03E	0	3.8,3.7			**¶17204459**
ISCJB	V	25 16 10 43.4–.77	74.34N–.05	10.1E–.40	10	3.7b,3.7			
BER	V	25 16 10 45.8–1.5	74.26N	9.80E	10	2.5L,3.7			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=26.1km s-min=14.6km az=82.0.								
ISCJB	Event type ke. Error ellipse: s-maj=13.8km s-min=7.7km az=6.6.								
BER	Error ellipse: s-maj=15.3km s-min=43.0km az=-1.0.								
ISC	**V**	**25 16 55 37.3–.69**	**74.26N–.03**	**8.68E–.04**	**11–4**	**4.8b,4.2s**	**563**	**3-146**	
ISCJB	V	25 16 55 35.5–.12	74.22N–.02	8.92E–.08	10	4.7b,4.2s			**¶16544942**
IDC	V	25 16 55 35.9–.42	74.16N	8.79E	0	4.4,4.3			
MOS	V	25 16 55 35.4–1.2	74.24N	8.81E	10	5.0b,4.3			
CSEM	V	25 16 55 36.4–.11	74.27N	9.21E	10	5.0b,4.3			
NEIC	V	25 16 55 37.2–.13	74.17N	8.76E	10	4.9b,4.3			
BER	V	25 16 55 38.0–3.8	74.24N	9.21E	14–27	4.5L,3.1L			
NAO	V	25 16 55 40.0–4.5	74.19N	9.98E	26–47	4.5L,3.1L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=3.4km s-min=2.3km az=149.1.								
IDC	Error ellipse: s-maj=10.8km s-min=8.0km az=67.0.								
MOS	Error ellipse: s-maj=18.6km s-min=3.8km az=95.1.								
CSEM	Event type ke. Error ellipse: s-maj=5.4km s-min=3.5km az=54.0.								
NEIC	Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=53.0.								
BER	Error ellipse: s-maj=7.2km s-min=38.1km az=-1.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
ISC	**VI**	**04 04 23 49.3–.39**	**73.34N–.04**	**7.68E–.05**	**13**	**4.3b,4.0s**	**235**	**3-123**	
CSEM	VI	04 04 23 47.2–.14	73.36N	7.80E	2	4.7b,4.0s			**¶16556906**
IDC	VI	04 04 23 47.3–.56	73.29N	7.44E	0	4.0,4.0			
ISCJB	VI	04 04 23 47.7–.26	73.41N–.02	8.3E–.10	13	4.2b,3.9s			
MOS	VI	04 04 23 48.3–1.9	73.40N	8.51E	10	4.6b,3.9s			
NEIC	VI	04 04 23 48.8–.30	73.36N	7.77E	10	4.7b,3.9s			
BER	VI	04 04 23 49.1–2.3	73.33N	7.35E	10	4.0L,2.6L			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=6.1km s-min=3.7km az=79.0.								
IDC	Error ellipse: s-maj=15.1km s-min=9.8km az=69.0.								
ISCJB	Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=172.7.								
MOS	Error ellipse: s-maj=26.8km s-min=4.5km az=96.0.								
NEIC	Event type se. Error ellipse: s-maj=7.7km s-min=4.7km az=76.0.								
BER	Error ellipse: s-maj=4.2km s-min=25.9km az=-1.0.								
ISC	**VI**	**14 23 50 54.2–.90**	**73.30N–.06**	**7.57E–.08**	**13**	**3.5b,2.7s**	**53**	**3-60**	
IDC	VI	14 23 50 52.8–1.2	73.25N	7.20E	0	3.6,3.6			**¶16638209**
ISCJB	VI	14 23 50 53.2–.67	73.32N–.04	7.8E–.20	13	3.5b,2.7s			
NAO	VI	14 23 50 53.0–2.2	73.25N	7.16E		3.2L,2.7s			
CSEM	VI	14 23 50 55.3–.30	73.33N	7.86E	10	2.0L,2.7s			
BER	VI	14 23 50 56.5–2.7	73.33N	7.48E	8–29	3.2L,2.0L			
ISC	Event type ke.								
IDC	Error ellipse: s-maj=20.1km s-min=14.3km az=66.0.								
ISCJB	Event type ke. Error ellipse: s-maj=9.9km s-min=5.7km az=168.6.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
CSEM	Event type ke. Error ellipse: s-maj=9.4km s-min=3.7km az=81.0.								
BER	Error ellipse: s-maj=7.6km s-min=55.6km az=-1.0.								
ISC	**VI**	**20 22 19 27.6–.60**	**73.68N–.07**	**8.42E–.08**	**10**	**3.6b,3.0s**	**52**	**3-145**	
ISCJB	VI	20 22 19 25.2–.48	73.65N–.04	8.5E–.20	10	3.6b,3.1s			**¶17206635**
CSEM	VI	20 22 19 26.5–.82	73.66N	8.77E	10	2.4L,3.1s			
IDC	VI	20 22 19 26.6–.68	73.65N	8.05E	0	3.8,3.7			
BER	VI	20 22 19 27.4–1.8	73.74N	7.93E	0–268	2.4,2.4L			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.7km s-min=6.0km az=164.6.								
CSEM	Event type ke. Error ellipse: s-maj=28.3km s-min=9.4km az=80.0.								
IDC	Error ellipse: s-maj=15.4km s-min=11.6km az=68.0.								
BER	Error ellipse: s-maj=7.9km s-min=65.0km az=-1.0.								
ISC	**VI**	**20 23 31 02.4–.36**	**73.64N–.05**	**8.43E–.05**	**10**	**4.3b,3.4s**	**285**	**3-145**	
ISCJB	VI	20 23 31 00.6–.21	73.67N–.03	8.5E–.10	10	4.2b,3.4s			**¶16646054**
IDC	VI	20 23 31 00.9–.50	73.62N	8.10E	0	4.1,4.0			
MOS	VI	20 23 31 00.9–1.5	73.72N	8.48E	10	4.5b,4.0			
NAO	VI	20 23 31 01.3–2.0	73.66N	8.90E		3.8L,4.0			
NEIC	VI	20 23 31 02.5–.24	73.64N	8.33E	10	4.5b,4.0			
CSEM	VI	20 23 31 02.5–.12	73.69N	8.51E	14	4.4b,4.0			
BER	VI	20 23 31 03.9–3.0	73.72N	8.34E	23–59	3.8L,4.0			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=4.5km s-min=3.5km az=158.3.								
IDC	Error ellipse: s-maj=12.0km s-min=9.1km az=70.0.								
MOS	Error ellipse: s-maj=23.3km s-min=4.6km az=95.2.								
NAO	Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.								
NEIC	Event type se. Error ellipse: s-maj=5.7km s-min=4.2km az=68.0.								
CSEM	Event type ke. Error ellipse: s-maj=5.5km s-min=4.0km az=66.0.								
BER	Error ellipse: s-maj=8.9km s-min=33.6km az=-1.0.								
ISC	**VI**	**20 23 51 49.0–.66**	**73.65N–.07**	**8.39E–.08**	**10**	**3.4b**	**25**	**4-61**	
ISCJB	VI	20 23 51 47.0–.47	73.65N–.05	8.2E–.20	10	3.4b,3.3s			**¶17206639**
BER	VI	20 23 51 47.5–2.9	73.60N	6.62E	10–600	2.1L,3.3s			
IDC	VI	20 23 51 48.4–.74	73.61N	8.10E	0	3.6,3.5			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=8.4km s-min=6.4km az=158.7.								
BER	Error ellipse: s-maj=11.8km s-min=56.3km az=-1.0.								
IDC	Error ellipse: s-maj=18.4km s-min=11.5km az=63.0.								
ISC	**VI**	**24 22 56 25.4–.66**	**75.16N–.05**	**9.27E–.07**	**10**	**3.6b,3.3s**	**49**	**2-146**	
CSEM	VI	24 22 56 21.3–.19	75.18N	7.77E	10	3.4L,3.3s			**¶16684553**
ISCJB	VI	24 22 56 23.8–.53	75.17N–.04	9.4E–.20	10	3.6b,3.3s			
BER	VI	24 22 56 23.6–2.4	75.14N	8.26E	10	3.4L,2.1L			
IDC	VI	24 22 56 24.1–.84	75.11N	8.67E	0	3.8,3.7			
NAO	VI	24 22 56 30.8–6.6	75.30N	10.70E	22–63	3.4L,3.7			
ISC	Event type ke.								
CSEM	Event type ke. Error ellipse: s-maj=6.6km s-min=4.3km az=103.0.								
ISCJB	Event type ke. Error ellipse: s-maj=8.6km s-min=5.6km az=1.2.								
BER	Error ellipse: s-maj=7.4km s-min=34.9km az=-1.0.								
IDC	Error ellipse: s-maj=19.2km s-min=11.4km az=81.0.								
NAO	Error ellipse: s-maj=0.1km s-min=0.4km az=-1.0.								

(641) North of Svalbard.

ISC	**I**	**02 05 05 39.5–1.0**	**82.4N–.10**	**6.06W–.10**	**10**	**3.5b**	**9**	**6-74**	
IDC	I	02 05 05 38.8–1.3	82.69N	5.66W	0	3.7,3.5			**¶15908842**
ISC	Event type ke.								
IDC	Error ellipse: s-maj=48.5km s-min=21.6km az=40.0.								
ISC	**I**	**03 12 59 10.6–.52**	**85.40N–.07**	**13.70E–.09**	**10**	**3.8b,3.3s**	**38**	**7-75**	
ISCJB	I	03 12 59 08.8–.38	85.49N–.07	14.4E–.80	10	3.8b,3.4s			**¶16031088**
IDC	I	03 12 59 09.2–.57	85.59N	15.73E	0	4.0,3.8			
NEIC	I	03 12 59 10.8–.45	85.51N	14.97E	10	4.1b,3.8			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=10.2km s-min=8.0km az=38.8.								
IDC	Error ellipse: s-maj=18.7km s-min=11.9km az=62.0.								
NEIC	Event type se. Error ellipse: s-maj=13.3km s-min=8.9km az=64.0.								
ISC	**I**	**11 20 33 58.9–1.0**	**82.79N–.09**	**33.28E–.09**	**10**	**3.6b**	**40**	**5-71**	
ISCJB	I	11 20 33 57.6–.88	82.76N–.08	32.7E–.70	10	3.4b,3.1s			**¶15928076**
IDC	I	11 20 33 57.7–1.2	82.77N	35.08E	0	3.7,3.6			

CSEM I 11 20 34 00.6–.62 82.76N 31.87E 5 2.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.7km s-min=7.4km az=40.6.
IDC Error ellipse: s-maj=29.7km s-min=16.9km az=125.0.
CSEM Event type ke. Error ellipse: s-maj=13.8km s-min=10.3km az=156.0.
ISC I 22 21 08 20.6–.48 85.52N–.08 19.23E–.09 10 3.9b,3.1s 35 7-73
ISCJB I 22 21 08 18.8–.34 85.56N–.06 19.4E–.80 10 3.9b,3.1s **¶16152123**
IDC I 22 21 08 19.1–.62 85.58N 19.75E 0 3.9,3.8
NEIC I 22 21 08 20.7–.24 85.54N 19.14E 10 4.0b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.5km az=141.1.
IDC Error ellipse: s-maj=20.4km s-min=11.8km az=63.0.
NEIC Event type se. Error ellipse: s-maj=7.0km s-min=4.6km az=56.0.
BER III 10 13 53 50.5–2.5 81.15N 3.56W 0–186 1.9L
CSEM III 10 13 53 48.0–1.5 81.08N 3.96W 5 1.9L **¶16911916**
BER Error ellipse: s-maj=81.9km s-min=999.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=56.8km s-min=14.4km az=176.0.
IDC IV 04 02 52 09.6–2.0 83.85N 0.78E 0 3.7,3.6
¶17199727
IDC Error ellipse: s-maj=52.3km s-min=21.4km az=61.0.
ISC IV 08 17 55 41.3–.76 84.52N–.09 6.0E–.10 10 3.5b,3.3s 16 7-50
ISCJB IV 08 17 55 39.0–.64 84.53N–.10 5E–1.0 10 3.5b,3.3s **¶17200269**
IDC IV 08 17 55 40.6–.98 84.76N 7.31E 0 3.7,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=19.4km s-min=9.3km az=142.3.
IDC Error ellipse: s-maj=24.2km s-min=16.0km az=61.0.
ISC IV 14 02 13 43.3–2.3 80.3N–.20 1.98W–.06 10 17 3-11
BER IV 14 02 13 47.7–1.1 80.65N 0.29W 10 2.3,1.7L **¶16442644**
CSEM IV 14 02 13 48.9–.51 80.43N 0.55E 10 2.8L,1.7L
ISC Event type ke.
BER Error ellipse: s-maj=23.4km s-min=116.6km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=26.8km s-min=10.9km az=36.0.
ISC IV 20 13 50 52.0–.63 81.48N–.08 4.59W–.07 10 3.6b,3.4s 19 5-74
ISCJB IV 20 13 50 50.2–.54 81.43N–.07 5.0W–.40 10 3.6b,3.3s **¶17201621**
IDC IV 20 13 50 50.9–.71 81.61N 4.34W 0 3.9,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.9km s-min=8.6km az=150.2.
IDC Error ellipse: s-maj=20.3km s-min=13.7km az=45.0.
ISC IV 21 15 18 54.1–.59 82.62N–.09 5.84W–.07 10 3.9b 57 5-74
ISCJB IV 21 15 18 52.5–.44 82.72N–.06 6.1W–.50 10 3.9b,3.8s **¶16631150**
IDC IV 21 15 18 52.5–.93 82.79N 5.93W 0 3.8,3.8s
CSEM IV 21 15 18 54.1 82.71N 6.22W 10 4.2b,3.8s
NEIC IV 21 15 18 54.1–.46 82.71N 6.22W 10 4.2b,3.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.9km az=40.3.
IDC Error ellipse: s-maj=27.4km s-min=19.1km az=36.0.
CSEM Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.4km az=211.0.
IDC IV 26 09 28 35.3–5.4 85.36N 13.58E 0 3.5,3.4
¶17202121
IDC Error ellipse: s-maj=246.3km s-min=27.3km az=62.0.
ISC IV 27 16 56 39.5–.52 84.65N–.06 5.14E–.08 10 3.7b,3.5s 75 6-117
ISCJB IV 27 16 56 37.8–.40 84.66N–.04 5.2E–.70 10 3.8b,3.4s **¶16463994**
IDC IV 27 16 56 39.0–.58 84.83N 4.37E 0 4.2L,4.0
CSEM IV 27 16 56 39.5–.41 84.69N 5.40E 10 4.5L,4.0
NEIC IV 27 16 56 40.2–.49 84.75N 4.90E 10 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.3km s-min=5.7km az=156.3.
IDC Error ellipse: s-maj=18.5km s-min=11.1km az=61.0.
CSEM Event type ke. Error ellipse: s-maj=21.8km s-min=12.0km az=68.0.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.8km az=66.0.
ISC V 17 00 56 59.6–4.1 80.7N–.30 5.8W–.10 10 7 4-7
BER V 17 00 57 01.4–1.9 80.69N 5.89W 0–224 2.5,1.3L **¶601005016**
ISC Event type ke.
BER Error ellipse: s-maj=798.1km s-min=999.9km az=-1.0.
ISC V 29 08 07 04.0–2.9 81.7N–.20 4.25W–.07 10 15 4-12
BER V 29 08 07 04.6–.95 80.55N 8.79W 10 2.7,1.8L **¶16552269**
CSEM V 29 08 07 07.8–.91 79.06N 7.36W 10 1.8L,1.8L
ISC Event type ke.
BER Error ellipse: s-maj=342.0km s-min=509.7km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=63.6km s-min=19.7km az=178.0.
ISC VI 08 13 03 40.9–.55 81.54N–.07 3.76W–.06 10 3.7b,3.2s 69 4-74
ISCJB VI 08 13 03 39.0–.42 81.44N–.05 4.5W–.30 10 3.8b,3.2s **¶16581040**
CSEM VI 08 13 03 38.8–.22 81.61N 3.98W 2 3.9L,3.2s
IDC VI 08 13 03 39.3–.70 81.61N 4.34W 0 3.9L,3.8
NEIC VI 08 13 03 40.6–.44 81.59N 4.12W 10 4.4b,3.8
BER VI 08 13 03 43.4–1.1 81.42N 3.06W 0–65 3.9L,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.3km s-min=5.5km az=26.4.
CSEM Event type ke. Error ellipse: s-maj=9.8km s-min=6.1km az=32.0.
IDC Error ellipse: s-maj=19.2km s-min=13.6km az=45.0.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=7.4km az=218.0.
BER Error ellipse: s-maj=29.7km s-min=408.5km az=-1.0.

(642) Norwegian Sea.

ISC I 14 11 01 14.4–.90 74.02N–.05 10.47E–.07 10 3.3s,3.1b 50 2-43
ISCJB I 14 11 01 11.8–.69 74.04N–.04 10.0E–.20 10 3.2s,3.1b **¶15962867**
IDC I 14 11 01 12.8–1.1 73.92N 9.77E 0 3.4,3.3
CSEM I 14 11 01 12.5–.40 74.02N 9.88E 5 3.2L,3.3
BER I 14 11 01 12.9–3.2 73.88N 9.35E 10 3.2L,1.8L
NAO I 14 11 01 16.3–4.4 73.94N 10.18E 25–44 3.2L,1.8L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.0km s-min=5.8km az=175.4.
IDC Error ellipse: s-maj=25.1km s-min=11.3km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=5.9km az=91.0.
BER Error ellipse: s-maj=9.1km s-min=54.1km az=-1.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
ISC I 18 01 00 52.4–1.6 72.7N–.10 4.8E–.20 10 9 6-60
ISCJB I 18 01 00 49.4–1.5 72.71N–.09 4.7E–.60 10 3.1b **¶17190444**
IDC I 18 01 00 50.9–2.0 72.58N 4.52E 0 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.1km s-min=12.7km az=2.7.
IDC Error ellipse: s-maj=32.8km s-min=23.0km az=101.0.
ISC III 04 17 44 27.8–1.4 74.49N–.08 10.1E–.10 10 15 2-41
ISCJB III 04 17 44 26.4–1.1 74.51N–.05 10.3E–.30 10 3.0b **¶16484364**
IDC III 04 17 44 27.2–1.9 74.41N 9.89E 0 3.6,3.5
BER III 04 17 44 29.2–2.1 74.46N 9.58E 15–55 2.3L,2.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.3km s-min=7.6km az=170.7.
IDC Error ellipse: s-maj=36.3km s-min=11.4km az=77.0.
BER Error ellipse: s-maj=31.4km s-min=114.4km az=-1.0.
ISC III 06 20 50 31.2–.60 72.96N–.04 5.95E–.04 25–4 4.3b,3.5s 367 4-123
BJI III 06 20 50 27.9 73.07N 5.61E 23 5.0b,4.6s **¶16196814**
NAO III 06 20 50 27.9–2.2 72.98N 6.34E 3.6L,4.6s
IDC III 06 20 50 28.1–.48 72.95N 5.75E 0 3.9,3.9
MOS III 06 20 50 28.3–1.2 73.06N 6.25E 10 4.3b,3.9
CSEM III 06 20 50 28.9–.10 73.06N 6.00E 10 4.4b,3.9
BER III 06 20 50 30.5–3.0 73.02N 6.15E 10 3.6L,2.9
NEIC III 06 20 50 30.8–.89 73.03N 6.03E 20–5 4.6b,2.9
ISC Event type ke.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
IDC Error ellipse: s-maj=13.8km s-min=9.6km az=52.0.
MOS Error ellipse: s-maj=19.6km s-min=4.4km az=95.9.
CSEM Event type ke. Error ellipse: s-maj=4.9km s-min=3.3km az=58.0.
BER Error ellipse: s-maj=7.2km s-min=55.9km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=6.5km s-min=4.2km az=53.0.
ISC III 12 03 11 35.3–1.8 63.77N–.05 2.61E–.09 10 93 2-11
ISCJB III 12 03 11 36.9–.82 63.74N–.03 3.1E–.10 10 **¶603049548**
NAO III 12 03 11 36.7–2.7 63.80N 3.05E 2.4L
BER III 12 03 11 39.0–2.1 63.82N 2.51E 23–13 3.8,2.6L
CSEM III 12 03 11 39.3–.48 63.67N 3.07E 10 2.4L,2.6L
UPP III 12 03 11 42.6 63.66N 2.60E 40 1.5L,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.2km az=19.4.
NAO Error ellipse: s-maj=0.2km s-min=0.3km az=-1.0.
BER Error ellipse: s-maj=3.7km s-min=22.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.2km s-min=5.2km az=109.0.
ISC III 14 02 48 22.4–.72 72.23N–.08 1.99E–.08 10 3.5b 42 6-125
IDC III 14 02 48 20.9–.74 72.16N 1.31E 0 4.0s,4.0 **¶16311628**
ISCJB III 14 02 48 20.8–.61 72.25N–.05 2.4E–.20 10 4.2s,3.4b
BER III 14 02 48 22.3–3.3 72.11N 1.39E 10 3.4L,3.4b
CSEM III 14 02 48 22.0–.59 72.19N 1.98E 10 3.4L,3.4b
NAO III 14 02 48 22.0–3.5 72.12N 2.09E 3.4L,3.4b
ISC Event type ke.
IDC Error ellipse: s-maj=22.1km s-min=13.0km az=52.0.
ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=6.8km az=147.9.
BER Error ellipse: s-maj=19.6km s-min=85.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=16.6km s-min=6.6km az=76.0.
NAO Error ellipse: s-maj=0.2km s-min=0.4km az=-1.0.
IDC IV 03 13 44 28.1–3.0 72.52N 4.02E 0 3.6,3.5
¶17199658
IDC Error ellipse: s-maj=46.0km s-min=24.8km az=92.0.
ISC IV 16 08 29 04.2–1.8 62.01N–.05 2.26E–.06 14–12 73 1-12
CSEM IV 16 08 29 06.8–.37 61.90N 2.41E 10 2.2L **¶16445556**
BER IV 16 08 29 07.8–2.1 62.02N 2.28E 15–10 2.5,2.2L
NAO IV 16 08 29 09.4–6.3 62.23N 3.02E 10–26 2.0L,2.2L
UPP IV 16 08 29 12.2 61.73N 3.14E 0 1.4L,2.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.5km s-min=5.7km az=155.0.
BER Error ellipse: s-maj=6.8km s-min=15.0km az=-1.0.
NAO Error ellipse: s-maj=0.3km s-min=0.2km az=-1.0.
ISC IV 27 06 48 57.8–.98 74.86N–.05 10.7E–.10 10 3.3b,3.3s 25 2-62
IDC IV 27 06 48 55.5–.93 74.86N 9.08E 0 3.7,3.6 **¶16482434**
BER IV 27 06 48 59.8–3.4 74.93N 9.78E 24–125 2.9L,1.3
CSEM IV 27 06 49 01.7–.42 75.01N 12.20E 15 2.9L,1.3
NAO IV 27 06 49 01.0–1.7 75.06N 12.25E 2.9L,1.3
ISC Event type ke.
IDC Error ellipse: s-maj=22.4km s-min=11.1km az=87.0.
BER Error ellipse: s-maj=17.5km s-min=170.9km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=19.4km s-min=5.4km az=85.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
ISC V 31 03 40 53.2–1.2 72.02N–.07 4.18E–.09 10 58 5-59
IDC V 31 03 40 49.1–5.7 72.24N 3.02E 0 3.5,3.4 **¶16583937**
NAO V 31 03 40 50.3–3.4 71.86N 3.46E 2.7L,3.4
CSEM V 31 03 40 52.7–.69 72.00N 4.11E 5 2.1L,3.4
BER V 31 03 40 52.6–1.9 71.98N 3.32E 2–25 2.7L,2.5W
HEL V 31 03 40 55.2–.40 72.04N 4.31E 10 2.7L,2.5W
ISC Event type ke.
IDC Error ellipse: s-maj=98.9km s-min=33.3km az=162.0.
NAO Error ellipse: s-maj=0.1km s-min=0.3km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=18.1km s-min=8.5km az=69.0.
BER Error ellipse: s-maj=8.3km s-min=57.5km az=-1.0.
HEL Error ellipse: s-maj=2.8km s-min=3.6km az=-1.0.
ISC VI 03 05 29 06.0–1.4 72.69N–.09 6.7E–.10 10 13 4-60
ISCJB VI 03 05 29 03.4–1.3 72.66N–.06 6.2E–.40 10 3.4b **¶17205062**
IDC VI 03 05 29 06.1–3.9 72.41N 6.53E 0 3.4,3.3
BER VI 03 05 29 10.3–1.6 72.78N 7.24E 0–429 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=18.8km s-min=9.0km az=1.0.
IDC Error ellipse: s-maj=60.7km s-min=23.2km az=171.0.
BER Error ellipse: s-maj=18.1km s-min=144.5km az=-1.0.
ISC VI 28 10 02 59.5–1.1 64.97N–.06 0.63E–.06 10 154 4-12
ISCJB VI 28 10 03 01.0–.57 64.91N–.03 1.00E–.10 10 **¶16684164**
NAO VI 28 10 03 01.5–2.8 65.05N 0.98E 3.1L
CSEM VI 28 10 03 02.5–.33 64.98N 0.66E 10 3.1L
BER VI 28 10 03 04.3–3.3 65.04N 0.59E 15 4.1L,2.9
NEIC VI 28 10 03 05.7 65.05N 0.56E 15 4.4L,4.2L
BGS VI 28 10 03 05.7–.96 65.02N 0.44E 32–15 4.2L,4.2L
IDC VI 28 10 03 06.6–5.4 65.16N 1.66E 0 3.4,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.2km s-min=4.4km az=23.6.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.7km s-min=4.8km az=124.0.
BER Error ellipse: s-maj=6.6km s-min=17.1km az=-1.0.
NEIC Event type se. After BER.
BGS Error ellipse: s-maj=10.8km s-min=8.5km az=-1.0.
IDC Error ellipse: s-maj=54.2km s-min=28.3km az=89.0.
ISC VI 29 01 05 12.5–1.4 71.86N–.10 0.6E–.10 10 2.9s 17 6-59
ISCJB VI 29 01 05 10.8–1.1 71.91N–.09 0.7E–.30 10 3.4b,3.0s **¶17207160**
IDC VI 29 01 05 11.6–2.1 71.77N 0.46E 0 3.5,3.4
BER VI 29 01 05 15.5–3.2 71.93N 0.06W 15–60 1.9L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.0km s-min=10.5km az=148.6.
IDC Error ellipse: s-maj=36.7km s-min=23.6km az=115.0.
BER Error ellipse: s-maj=17.5km s-min=135.5km az=-1.0.

(643) Svalbard region.

ISC I 04 09 58 59.3–2.1 76.39N–.08 8.0E–.10 10 14 2-41
CSEM I 04 09 58 56.7–.13 76.18N 6.56E 10 1.7L **¶15908863**
BER I 04 09 59 01.9–.98 76.33N 7.64E 10 2.3,1.7L
IDC I 04 09 59 07.1–4.0 76.17N 10.45E 0 3.5,3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.6km s-min=3.4km az=11.0.
BER Error ellipse: s-maj=7.1km s-min=28.0km az=-1.0.
IDC Error ellipse: s-maj=72.8km s-min=28.9km az=72.0.
ISC I 06 06 35 33.0–.73 76.34N–.05 8.64E–.07 10 3.4b,3.3s 48 2-67
ISCJB I 06 06 35 31.8–.56 76.32N–.04 8.6E–.20 10 3.6b,3.4s **¶17189572**
IDC I 06 06 35 32.1–.77 76.25N 7.38E 0 3.8,3.7
CSEM I 06 06 35 32.8–1.2 76.39N 8.37E 10 2.6L,3.7
NAO I 06 06 35 35.9–2.0 76.33N 9.60E 3.5L,3.7
BER I 06 06 35 39.9–4.8 76.64N 10.15E 14–25 3.5L,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.8km az=139.4.
IDC Error ellipse: s-maj=18.9km s-min=11.8km az=59.0.
CSEM Event type ke. Error ellipse: s-maj=31.0km s-min=16.0km az=83.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
BER Error ellipse: s-maj=12.7km s-min=98.8km az=-1.0.
ISC I 11 10 40 11.7–.64 76.15N–.05 7.87E–.06 10 3.5s,3.4b 46 2-72
ISCJB I 11 10 40 10.7–.56 76.18N–.05 8.2E–.20 10 3.5s,3.5b **¶15925834**
CSEM I 11 10 40 10.7–.45 76.10N 7.59E 10 3.2L,3.5b
IDC I 11 10 40 12.0–.81 76.11N 7.40E 0 3.8,3.6
BER I 11 10 40 13.9–2.9 76.19N 7.69E 10 3.2L,2.6
NAO I 11 10 40 15.6–2.1 76.18N 9.39E 3.2L,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.9km az=38.0.
CSEM Event type ke. Error ellipse: s-maj=15.1km s-min=11.6km az=155.0.
IDC Error ellipse: s-maj=18.6km s-min=13.1km az=74.0.
BER Error ellipse: s-maj=8.9km s-min=71.2km az=-1.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
ISC I 18 17 00 45.1–.80 76.88N–.05 17.93E–.06 16 30 1-39
ISCJB I 18 17 00 43.4–.58 76.79N–.07 17.9E–.20 16 3.3b **¶15963017**
CSEM I 18 17 00 43.0–.10 76.89N 18.20E 2 3.2L
NAO I 18 17 00 44.0–1.0 76.86N 18.02E 7–10 3.2L
BER I 18 17 00 46.7–3.1 76.92N 18.36E 19–15 3.2L,3.0L
IDC I 18 17 00 55.7–3.1 76.37N 22.88E 0 3.5,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.4km s-min=5.2km az=29.8.
CSEM Event type ke. Error ellipse: s-maj=3.8km s-min=2.1km az=48.0.
BER Error ellipse: s-maj=6.1km s-min=35.9km az=-1.0.
IDC Error ellipse: s-maj=52.6km s-min=24.7km az=109.0.
ISC I 22 08 26 19.9–.46 76.87N–.04 17.99E–.05 16 3.7b 75 1-119
CSEM I 22 08 26 17.9–.25 76.95N 18.28E 2 3.7L **¶15963041**

IDC I 22 08 26 18.2–.53 76.91N 18.01E 0 3.9,3.7
ISCJB I 22 08 26 18.3–.33 76.84N–.03 17.9E–.20 16 3.7b,3.7
NAO I 22 08 26 18.3–1.1 76.84N 17.87E 7–11 3.7L,3.7
BER I 22 08 26 21.3–3.8 76.89N 18.27E 20–25 3.7L,3.7L
KOLA I 22 08 26 23.0 77.26N 23.94E 0 3.7L,3.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.9km s-min=4.7km az=61.0.
IDC Error ellipse: s-maj=17.3km s-min=8.7km az=67.0.
ISCJB Event type ke. Error ellipse: s-maj=6.0km s-min=3.8km az=146.4.
BER Error ellipse: s-maj=8.1km s-min=55.7km az=-1.0.
KOLA Event type ke.
ISC I 22 11 25 07.9–1.1 76.96N–.02 18.52E–.04 1–7 4.3b,3.7s 195 1-119
BJI I 22 11 25 05.5 77.00N 19.10E 5 4.7s,4.5 **¶15957618**
MOS I 22 11 25 08.0–1.6 76.93N 18.37E 12 4.5b,4.5
IDC I 22 11 25 08.2–.47 76.95N 18.18E 0 4.1,4.0
CSEM I 22 11 25 08.8–.16 76.96N 18.37E 10 4.6b,4.0
NAO I 22 11 25 08.5–1.0 76.88N 18.42E 10–9 4.4L,4.0
NEIC I 22 11 25 09.9–.28 76.99N 18.27E 10 4.6b,4.0
BER I 22 11 25 10.7–4.0 76.99N 19.15E 15–23 4.4L,4.3L
ISC Event type ke.
MOS Error ellipse: s-maj=31.0km s-min=5.4km az=93.7.
IDC Error ellipse: s-maj=14.5km s-min=8.1km az=75.0.
CSEM Event type ke. Error ellipse: s-maj=7.3km s-min=4.5km az=67.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.3km az=65.0.
BER Error ellipse: s-maj=7.9km s-min=59.1km az=-1.0.
ISC I 27 10 22 31.4–.99 76.72N–.07 17.75E–.06 10 23 1-8
ISCJB I 27 10 22 31.5–.90 76.9N–.10 18.1E–.20 10 **¶602426846**
CSEM I 27 10 22 31.6–.26 76.91N 18.14E 2 2.6L
NAO I 27 10 22 31.3–1.6 76.82N 18.00E 2–13 2.7L
BER I 27 10 22 34.4–2.9 76.87N 18.00E 15 2.7L,2.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.5km s-min=5.6km az=12.9.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.0km az=18.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=7.8km s-min=29.0km az=-1.0.
ISC I 28 06 24 35.7–.82 77.16N–.04 18.72E–.04 17 30 1-10
CSEM I 28 06 24 34.9–.29 77.18N 18.78E 12 2.1L **¶16005295**
NAO I 28 06 24 34.8–1.3 77.19N 18.92E 5–11 2.6L
ISCJB I 28 06 24 36.0–.75 77.07N–.07 18.8E–.20 17 2.6L
BER I 28 06 24 37.5–4.1 77.17N 18.74E 17–24 2.6L,2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=10.6km s-min=5.8km az=33.0.
ISCJB Event type ke. Error ellipse: s-maj=10.5km s-min=6.1km az=22.9.
BER Error ellipse: s-maj=9.4km s-min=50.2km az=-1.0.
ISC II 04 08 04 40.6–2.0 76.95N–.06 18.58E–.08 8–21 25 1-8
CSEM II 04 08 04 40.8–.17 76.95N 18.53E 10 3.0L **¶602734455**
NAO II 04 08 04 41.8–2.2 76.88N 18.26E 16–17 3.0L
BER II 04 08 04 43.3–3.6 76.85N 18.21E 19–31 3.0L,2.3L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=6.0km s-min=3.2km az=33.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=9.9km s-min=64.4km az=-1.0.
ISC II 14 15 31 59.3–.77 76.90N–.05 18.31E–.04 10 32 1-11
CSEM II 14 15 31 59.5–.28 76.98N 18.34E 12 2.6L **¶16025694**
NAO II 14 15 31 59.9–1.4 77.01N 18.48E 8–12 2.6L
BER II 14 15 32 02.5–3.1 77.03N 18.35E 16–15 2.6L,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=9.9km s-min=5.8km az=46.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=5.9km s-min=31.1km az=-1.0.
ISC III 17 17 32 14.6–2.2 77.72N–.07 8.7E–.10 10 19 1-9
CSEM III 17 17 32 13.8–.88 77.71N 8.84E 10 2.2L **¶603049892**
NAO III 17 17 32 14.9–2.0 77.68N 8.85E 2.2L
BER III 17 17 32 15.3–2.8 77.68N 8.33E 14–13 2.2L,1.7L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=17.5km s-min=9.2km az=84.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=10.0km s-min=64.9km az=-1.0.
ISC III 29 02 36 02.4–1.5 77.77N–.07 8.6E–.10 10 3.1b 25 1-65
CSEM III 29 02 35 58.6–.60 77.77N 7.56E 10 3.2L **¶16401383**
NAO III 29 02 36 01.5–2.0 77.77N 8.56E 3.2L
BER III 29 02 36 02.8–2.3 77.77N 8.29E 10 3.2L,2.4L
IDC III 29 02 36 03.3–1.3 77.59N 8.46E 0 3.5,3.4
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=18.2km s-min=14.2km az=175.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=8.8km s-min=59.8km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=14.9km az=138.0.
ISC IV 03 22 21 51.8–1.1 76.92N–.03 18.40E–.04 16–9 51 1-39
CSEM IV 03 22 21 51.0–.24 76.98N 18.97E 2 3.2L **¶16414382**
IDC IV 03 22 21 52.8–.85 77.14N 19.76E 0 3.6,3.6
NAO IV 03 22 21 52.3–.90 76.94N 18.71E 12–9 3.6L,3.6
BER IV 03 22 21 55.3–3.6 76.99N 18.59E 22–21 3.6L,3.2L
KOLA IV 03 22 22 00.4 76.43N 18.63E 0 3.6L,3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.8km s-min=4.3km az=60.0.
IDC Error ellipse: s-maj=19.0km s-min=7.5km az=69.0.
BER Error ellipse: s-maj=7.6km s-min=42.3km az=-1.0.
KOLA Event type ke.
ISC IV 05 04 07 56.0–3.0 76.10N–.05 10.47E–.10 16–19 30 1-11
CSEM IV 05 04 07 52.1–1.1 75.91N 7.69E 10 3.2L **¶16411018**
NAO IV 05 04 07 54.9–2.5 75.84N 9.45E 3.2L
BER IV 05 04 07 55.8–2.3 75.94N 8.10E 10 3.2L,2.3
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=28.4km s-min=11.7km az=72.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
BER Error ellipse: s-maj=7.6km s-min=54.7km az=-1.0.
ISC IV 07 17 20 53.8–1.1 78.34N–.06 8.47E–.07 10 3.3b 43 1-66
CSEM IV 07 17 20 49.2–.63 78.46N 6.92E 10 3.1L **¶16418689**
IDC IV 07 17 20 51.4–1.1 78.46N 7.17E 0 3.7,3.6
NAO IV 07 17 20 53.6–1.8 78.39N 8.30E 3.6L,3.6
BER IV 07 17 20 56.4–2.7 78.45N 8.54E 10 3.6L,3.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=21.3km s-min=11.9km az=178.0.
IDC Error ellipse: s-maj=19.0km s-min=13.0km az=19.0.
BER Error ellipse: s-maj=8.6km s-min=56.9km az=-1.0.
BER IV 25 18 47 16.4–1.4 76.95N 18.38E 16–11 1.5,1.1L
CSEM IV 25 18 47 14.0–.45 77.10N 18.86E 8 1.1L,1.1L **¶16912074**
BER Error ellipse: s-maj=6.3km s-min=29.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=10.3km s-min=7.4km az=11.0.
ISC V 05 01 57 54.5–1.6 77.07N–.04 19.57E–.06 5–11 49 1-65
CSEM V 05 01 57 55.0–.27 77.09N 19.42E 5 3.6L **¶16502603**
IDC V 05 01 57 55.5–.86 77.09N 19.51E 0 3.5,3.4
KOLA V 05 01 57 57.0 77.63N 26.87E 0 3.5,3.4
NAO V 05 01 57 57.0–1.5 77.03N 18.90E 11–12 3.6L,3.4
BER V 05 01 57 59.6–4.2 77.09N 18.93E 19–22 3.6L,3.2L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=8.4km s-min=3.7km az=59.0.
IDC Error ellipse: s-maj=23.6km s-min=7.5km az=69.0.
KOLA Event type ke.
BER Error ellipse: s-maj=8.4km s-min=76.9km az=-1.0.
ISC V 05 11 09 06.0–.74 77.08N–.03 18.45E–.04 23–5 4.4b,3.6s 384 1-147
IDC V 05 11 09 01.8–.35 77.04N 18.42E 0 4.2,4.1 **¶16497736**
MOS V 05 11 09 02.5–1.3 77.16N 18.85E 10 4.6b,4.1
ISCJB V 05 11 09 03.0–.72 77.12N–.02 18.7E–.10 14–4 4.3b,3.7s
NAO V 05 11 09 03.4–1.3 77.03N 18.96E 16–10 4.7L,3.7s
BER V 05 11 09 04.8–4.2 77.07N 19.17E 15–24 4.7L,4.3L
CSEM V 05 11 09 04.4–.09 77.14N 18.60E 15 4.4b,4.3L
NEIC V 05 11 09 06.0–1.2 77.11N 18.57E 23–9 4.5b,4.3L
ISC Event type ke.
IDC Error ellipse: s-maj=10.6km s-min=6.4km az=67.0.
MOS Error ellipse: s-maj=27.5km s-min=5.3km az=93.3.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.2km az=157.6.
BER Error ellipse: s-maj=9.3km s-min=65.0km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=5.1km s-min=3.0km az=64.0.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=3.3km az=68.0.
BER V 17 05 47 48.9–1.4 79.07N 5.44E 10 2.6L,2.3
¶601005020
BER Error ellipse: s-maj=23.6km s-min=65.6km az=-1.0.
ISC V 21 02 42 42.3–2.4 77.00N–.05 19.35E–.09 2–20 37 1-10
ISCJB V 21 02 42 40.6–.86 76.94N–.03 19.1E–.20 2–10 **¶603241707**
CSEM V 21 02 42 42.1–.16 76.96N 19.07E 12 3.2L
NAO V 21 02 42 43.3–1.1 76.95N 19.04E 16–10 3.2L
BER V 21 02 42 45.6–3.4 76.97N 19.05E 15–19 3.2L,2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=4.4km az=155.2.
CSEM Event type ke. Error ellipse: s-maj=5.4km s-min=2.8km az=56.0.
BER Error ellipse: s-maj=6.7km s-min=52.6km az=-1.0.
ISC V 24 05 23 22.0–1.2 77.42N–.07 7.94E–.08 10 21 2-9
ISCJB V 24 05 23 20.2–1.0 77.48N–.06 8.2E–.30 10 **¶602921146**
CSEM V 24 05 23 22.6–.72 77.51N 8.13E 10 2.6L
NAO V 24 05 23 24.8–2.7 77.58N 8.60E 7–20 2.6L
BER V 24 05 23 25.8–2.8 77.53N 8.58E 10 2.6L,2.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=8.4km az=42.5.
CSEM Event type ke. Error ellipse: s-maj=20.9km s-min=15.9km az=8.0.
NAO Error ellipse: s-maj=0.2km s-min=0.2km az=-1.0.
BER Error ellipse: s-maj=8.2km s-min=79.3km az=-1.0.
ISC V 31 06 45 41.5–2.6 79.1N–.20 5.1E–.10 10 31 1-19
CSEM V 31 06 45 36.4–.74 79.41N 3.33E 15 3.2L **¶16583938**
NAO V 31 06 45 41.5–3.8 79.14N 5.09E 3.2L
BER V 31 06 45 41.0–4.7 79.06N 3.67E 15–359 3.2L,2.6L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=35.4km s-min=8.7km az=4.0.
NAO Error ellipse: s-maj=0.4km s-min=0.2km az=-1.0.
BER Error ellipse: s-maj=89.7km s-min=999.9km az=-1.0.
ISC V 31 21 13 40.2–1.9 78.27N–.07 7.8E–.10 10 27 1-10
ISCJB V 31 21 13 39.0–1.0 78.33N–.06 7.5E–.30 10 **¶603241721**
CSEM V 31 21 13 40.3–.54 78.34N 7.60E 10 2.4L
NAO V 31 21 13 43.9–1.8 78.27N 8.57E 2.8L
BER V 31 21 13 46.0–3.8 78.27N 8.65E 15–23 2.8L,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=6.9km az=41.7.
CSEM Event type ke. Error ellipse: s-maj=14.5km s-min=10.2km az=162.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=12.8km s-min=93.9km az=-1.0.
ISC VI 09 17 13 04.3–1.5 78.14N–.07 8.6E–.10 10 3.4b 28 1-65
CSEM VI 09 17 13 00.0–.44 78.25N 7.44E 5 2.8L **¶16596651**
NAO VI 09 17 13 02.8–2.1 78.26N 8.41E 2.8L
IDC VI 09 17 13 03.6–1.9 78.22N 8.00E 0 3.5b,3.5
BER VI 09 17 13 03.6–3.3 78.27N 8.16E 1–20 2.8L,2.3L
ISC Event type ke.
CSEM Event type ke.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
IDC Error ellipse: s-maj=35.4km s-min=25.0km az=69.0.
BER Error ellipse: s-maj=14.7km s-min=81.0km az=-1.0.
ISC VI 10 03 57 27.8–.84 77.51N–.06 8.14E–.06 10 3.1s 34 1-89
ISCJB VI 10 03 57 24.2–.69 77.47N–.05 7.9E–.20 10 3.6b,3.2s **¶16596652**
CSEM VI 10 03 57 25.7–.60 77.55N 7.45E 10 3.0L,3.2s
NAO VI 10 03 57 28.8–2.6 77.49N 8.73E 5–15 3.0L,3.2s
IDC VI 10 03 57 29.2–2.2 77.37N 8.21E 0 3.7,3.7b
BER VI 10 03 57 32.0–1.9 77.55N 8.58E 15–9 3.0L,2.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.2km s-min=6.4km az=172.9.
CSEM Event type ke. Error ellipse: s-maj=16.9km s-min=14.4km az=155.0.
NAO Error ellipse: s-maj=0.1km s-min=0.2km az=-1.0.
IDC Error ellipse: s-maj=35.3km s-min=14.3km az=123.0.
BER Error ellipse: s-maj=6.2km s-min=41.7km az=-1.0.
ISC VI 10 21 23 15.0–1.4 76.14N–.06 24.26E–.06 18–8 35 0-7
CSEM VI 10 21 23 15.4–.35 76.17N 24.28E 15 2.4L **¶603482763**
NAO VI 10 21 23 15.5–1.1 76.15N 24.41E 16–10 2.4L
BER VI 10 21 23 16.7–4.2 76.13N 24.46E 14–18 2.4L,2.2
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=7.7km s-min=6.5km az=62.0.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
BER Error ellipse: s-maj=11.1km s-min=51.3km az=-1.0.
ISC VI 11 16 43 54.3–1.3 78.25N–.05 9.26E–.09 10 3.5b 30 1-66
NAO VI 11 16 43 52.2–2.2 78.40N 8.53E 3.4L **¶17205783**
CSEM VI 11 16 43 52.8–.50 78.34N 8.85E 8 3.4L
IDC VI 11 16 43 53.5–1.4 77.95N 8.43E 0 3.8,3.6
BER VI 11 16 43 53.3–2.1 78.40N 8.32E 10 3.4L,3.0L
ISC Event type ke.
NAO Error ellipse: s-maj=0.1km s-min=0.1km az=-1.0.
CSEM Event type ke. Error ellipse: s-maj=9.6km s-min=4.8km az=99.0.
IDC Error ellipse: s-maj=32.7km s-min=22.0km az=31.0.
BER Error ellipse: s-maj=7.1km s-min=51.1km az=-1.0.
ISC VI 16 00 07 20.2–1.2 77.07N–.05 18.92E–.03 15–10 49 1-16
ISCJB VI 16 00 07 18.0–.62 76.98N–.04 18.9E–.10 8–5 **¶603482799**
CSEM VI 16 00 07 19.2–.21 77.06N 18.90E 10 3.4L
NAO VI 16 00 07 20.1–.90 77.00N 18.85E 19–9 3.4L
BER VI 16 00 07 22.3–3.9 77.07N 18.88E 15 3.4L,3.0L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=4.1km az=35.4.
CSEM Event type ke. Error ellipse: s-maj=7.1km s-min=3.8km az=49.0.
BER Error ellipse: s-maj=7.0km s-min=39.5km az=-1.0.
BER VI 18 17 42 22.3–1.0 76.92N 18.74E 20–12 1.7,1.1L
¶601006375
BER Error ellipse: s-maj=7.9km s-min=14.5km az=-1.0.
BER VI 20 11 49 29.6–2.9 77.79N 8.94E 10 1.6,0.9L
¶601006382
BER Error ellipse: s-maj=12.7km s-min=82.8km az=-1.0.
ISC VI 24 18 27 51.5–1.1 77.11N–.03 18.98E–.04 12–8 3.9b 50 1-118
ISCJB VI 24 18 27 49.7–1.1 77.08N–.04 19.4E–.20 10–8 3.6b **¶16684552**
IDC VI 24 18 27 51.2–.95 77.21N 18.96E 0 3.7,3.5
CSEM VI 24 18 27 51.4–.30 77.13N 18.94E 10 3.2L,3.5
NAO VI 24 18 27 52.7–1.2 77.11N 18.77E 13–10 3.2L,3.5
BER VI 24 18 27 54.5–3.2 77.15N 18.83E 15–21 3.2L,2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.6km s-min=5.8km az=143.4.
IDC Error ellipse: s-maj=49.9km s-min=8.3km az=70.0.
CSEM Event type ke. Error ellipse: s-maj=9.5km s-min=5.5km az=51.0.
BER Error ellipse: s-maj=7.2km s-min=46.3km az=-1.0.

(644) North of Franz Josef Land.

ISC V 06 01 24 30.6–.71 86.62N–.07 43.8E–.10 10 3.7b,3.2s 15 9-64
ISCJB V 06 01 24 28.7–.57 86.64N–.06 44E–2.0 10 3.5b,3.2s **¶17202886**
IDC V 06 01 24 29.0–.80 86.72N 45.63E 0 3.8,3.6L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.9km s-min=8.9km az=174.3.
IDC Error ellipse: s-maj=27.8km s-min=13.1km az=91.0.

(650) Near coast of northwestern Siberia.

ISC V 24 01 38 42.6–.45 73.59N–.06 71.61E–.05 10 3.9b,3.1s 81 7-80
ISCJB V 24 01 38 40.5–.35 73.53N–.05 72.2E–.10 10 3.8b,3.1s **¶16549249**
MOS V 24 01 38 40.5–1.7 73.48N 72.40E 10 4.0b,3.1s
IDC V 24 01 38 40.9–.53 73.30N 72.49E 0 4.2L,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.8km s-min=5.7km az=28.8.
MOS Error ellipse: s-maj=24.0km s-min=7.8km az=87.5.
IDC Error ellipse: s-maj=12.5km s-min=11.2km az=93.0.

(651) North of Severnaya Zemlya.

ISC I 11 08 18 52.1–1.1 83.1N–.20 116.5E–.20 10 3.4b 8 15-80
ISCJB I 11 08 18 50.7–.96 83.1N–.20 116E–1.0 10 3.9s,3.4b ¶16395506
MOS I 11 08 18 50.8–1.1 83.10N 116.29E 10 4.1b,3.4b
IDC I 11 08 18 50.8–1.2 83.15N 116.30E 0 3.9s,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.4km s-min=15.1km az=163.0.
MOS Error ellipse: s-maj=99.9km s-min=33.9km az=89.8.
IDC Error ellipse: s-maj=42.8km s-min=19.5km az=162.0.
IDC II 14 14 48 39.8–1.4 84.08N 110.10E 0 3.8,3.6
¶17192245
IDC Error ellipse: s-maj=44.5km s-min=27.4km az=159.0.
ISC III 04 02 33 41.7–.56 85.62N–.04 86.72E–.05 16–3 4.7b,3.6s 563 11-158
BJI III 04 02 33 37.0 85.60N 87.20E 10 5.1b,4.9s ¶16194031
IDC III 04 02 33 38.8–.43 85.61N 86.07E 0 4.5,4.3
ISCJB III 04 02 33 38.8–1.3 85.71N–.02 86.6E–.40 10–7 4.7b,3.6s
MOS III 04 02 33 39.0–1.0 85.56N 87.78E 10 4.9b,3.6s
NEIC III 04 02 33 40.9–.13 85.59N 86.74E 10 4.8b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=8.8km az=121.0.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=2.7km az=20.8.
MOS Error ellipse: s-maj=67.2km s-min=4.6km az=88.3.
NEIC Event type se. Error ellipse: s-maj=5.2km s-min=2.7km az=116.0.
ISC IV 02 12 13 28.0–1.5 85.9N–.30 78.9E–.20 10 3.2b 7 11-39
ISCJB IV 02 12 13 24.8–1.0 85.8N–.10 79E–1.0 10 3.2b ¶17199522
IDC IV 02 12 13 24.9–1.2 85.59N 83.34E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=22.9km s-min=11.7km az=155.5.
IDC Error ellipse: s-maj=39.1km s-min=21.0km az=128.0.

(653) Near coast of northern Siberia.

ISC V 29 16 48 39.7–1.6 73.4N–.10 121.62E–.09 10 3.4b 16 3-94
YARS V 29 16 48 42.6–1.1 73.69N–.04 123.9E–.10 10 3.4b ¶17204711
IDC V 29 16 48 43.6–1.3 72.45N 120.64E 0 5.7L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=46.2km s-min=21.6km az=167.0.

(654) East of Severnaya Zemlya.

IDC III 01 02 27 36.0–1.5 78.45N 128.42E 0 3.6,3.3
¶17193032
IDC Error ellipse: s-maj=130.0km s-min=26.6km az=147.0.
ISC IV 20 02 16 53.6–.81 79.29N–.09 124.5E–.10 10 3.5b 9 8-83
ISCJB IV 20 02 16 51.8–.72 79.3N–.10 124.6E–.60 10 3.4b,2.9s ¶17201577
IDC IV 20 02 16 52.5–.98 79.45N 124.21E 0 5.7L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.7km s-min=14.8km az=1.6.
IDC Error ellipse: s-maj=30.7km s-min=19.6km az=158.0.
ISC IV 21 10 03 35.5–1.1 81.1N–.20 121.2E–.10 10 3.8b,3.0s 10 17-81
ISCJB IV 21 10 03 33.7–.97 81.0N–.20 121.3E–.70 10 3.6b,3.0s ¶16505465
IDC IV 21 10 03 34.1–1.3 81.10N 121.07E 0 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.6km s-min=14.6km az=172.6.
IDC Error ellipse: s-maj=40.6km s-min=18.4km az=168.0.

(655) Laptev Sea.

ISC VI 07 17 13 23.6–.82 74.8N–.10 131.5E–.10 10 3.8b,3.1s 14 3-94
ISCJB VI 07 17 13 21.5–.71 74.9N–.10 131.6E–.40 10 3.7b,3.1s ¶16856603
MOS VI 07 17 13 21.9–.43 74.85N 131.46E 12 4.4b,3.1s
IDC VI 07 17 13 22.3–1.1 74.73N 132.00E 0 5.7L,4.0
NEIC VI 07 17 13 23.2–.77 74.87N 131.57E 10 4.1b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=10.9km az=149.6.
MOS Error ellipse: s-maj=69.8km s-min=20.5km az=86.4.
IDC Error ellipse: s-maj=39.7km s-min=18.4km az=139.0.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=12.1km az=151.0.
ISC VI 09 04 06 00.2–.62 76.27N–.07 130.48E–.09 10 3.8b 28 5-150
MOS VI 09 04 05 58.5–1.6 76.28N 130.37E 9 4.1b ¶17205593
IDC VI 09 04 05 58.3–.91 76.51N 129.84E 0 6.0L,3.9
ISCJB VI 09 04 05 59.2–.52 76.22N–.05 130.1E–.30 10 3.6b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC VI 29 11 06 53.2–1.1 75.01N 133.38E 0 5.4L,3.8
¶17207193
IDC Error ellipse: s-maj=42.2km s-min=16.6km az=135.0.

SEISMIC REGION 41.
Eastern Asia.

(656) Southeastern Siberia.

YARS I 04 07 50 54.7–.70 58.16N–.03 132.39E–.03 10
¶601996236
YARS I 08 22 40 51.5–.90 56.94N–.08 120.90E–.04 10
¶601996239
YARS I 10 10 27 43.5–.10 56.97N–.01 123.03E–.01 10
¶601996241
SKHL I 10 18 57 58.0–.30 53.88N 128.68E 10–2 3.7b
¶600327044
SKHL I 11 02 42 51.8–.20 54.07N 127.50E 5–2 3.8b
¶600327046
ISC I 11 21 53 30.6–1.1 59.49N–.09 141.13E–.03 10 17 1-12
YARS I 11 21 53 30.7–.50 59.30N–.05 141.23E–.02 10 ¶601254389
NERS I 11 21 53 37.6 59.35N 141.79E 17
ISC Event type se.
NERS Event type se.
YARS I 13 10 54 50.8–.50 56.96N–.03 123.03E–.02 10
¶601996244
YARS I 15 04 50 05.3–.50 56.81N–.05 122.99E–.01 10
¶601989352
YARS I 15 10 50 12.5–.30 56.91N–.01 129.59E–.04 10
¶601989361
YARS I 15 13 04 13.8–.40 56.82N–.03 123.90E–.02 10
¶601989365
YARS I 15 17 09 29.5–.20 57.59N 125.84E–.03 10
¶601989378
YARS I 15 17 43 15.0–.10 56.78N–.01 122.53E–.01 10
¶601989381
ISC I 15 20 10 19.7–.95 55.72N–.02 122.99E–.02 0–8 60 1-8
SKHL I 15 20 10 20.6–.60 55.73N 122.93E 11–1 3.6b ¶600327052
YARS I 15 20 10 20.7–.20 55.80N–.01 122.95E–.01 10 3.6b
ISC Event type ke.
YARS I 16 19 08 02.3–1.0 56.78N–.04 131.3E–.10 10
¶601989444
YARS I 16 20 37 26.4–.40 56.49N–.02 123.60E–.04 10
¶601989448
YARS I 17 01 02 06.4–.40 57.85N–.02 128.06E–.04 10
¶601989466
YARS I 17 03 20 52.0–1.5 55.75N–.04 129.3E–.10 10
¶601989479
YARS I 17 12 23 15.4–.50 57.67N–.02 120.49E–.05 10
¶601989497
YARS I 17 12 39 21.1–.30 55.20N–.02 122.37E–.02 10
¶601989498
YARS I 18 06 53 01.0–1.0 57.18N–.04 125.49E–.06 10
¶601989549
YARS I 18 12 19 12.7–.20 57.71N–.01 125.01E–.04 10
¶601989569
YARS I 18 13 00 01.1–.70 56.41N–.01 124.59E–.04 10
¶601989570
YARS I 18 23 27 29.1–.30 57.35N–.02 120.93E–.02 10
¶601989586
YARS I 20 00 38 30.0–.10 56.98N–.01 120.99E–.01 10
¶601989659
YARS I 20 07 42 52.3–2.3 56.5N–.60 121.0E–.30 10
¶601989687
YARS I 20 22 35 09.5–.30 57.20N–.01 128.01E–.03 10
¶601989737
YARS I 21 11 51 18.9–.30 58.71N–.02 126.91E–.03 10
¶601989764
YARS I 21 11 53 52.6–1.0 57.88N–.04 128.95E–.08 10
¶601989765
ISC I 21 14 40 38.3–1.1 57.44N–.02 120.66E–.02 6–9 132 1-50
YARS I 21 14 40 39.1–.10 57.43N–.01 120.68E–.01 10 ¶16009473
BYKL I 21 14 40 39.8–.40 57.41N 120.64E
MOS I 21 14 40 41.5–2.6 57.30N 120.61E 10 4.4b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=31.5km s-min=21.1km az=48.7.
YARS I 23 00 29 28.6–.20 56.46N–.01 122.79E–.01 10
¶601989883
YARS I 24 10 31 48.7–.30 57.50N–.02 120.71E–.03 10
¶601989950
YARS I 24 15 01 49.9–.60 56.43N–.02 132.12E–.06 10
¶601989967
YARS I 25 05 39 13.0–.50 55.17N–.02 124.73E–.04 10
¶601990016
YARS I 25 10 50 49.5–.60 56.7N–.20 121.3E–.10 10
¶601990035
YARS I 25 13 42 14.9–.30 56.82N–.02 123.20E–.02 10
¶601990046
YARS I 26 05 00 27.7–.30 57.63N–.01 120.17E–.03 10
¶601990089
YARS I 27 00 50 31.4–1.0 56.3N–.10 122.48E–.08 10
¶601990143
YARS I 27 04 37 00.5–2.4 58.13N–.09 133.4E–.10 10
¶601990152
YARS I 27 15 57 50.3–.20 56.99N–.01 123.07E–.02 10
¶601990181
YARS I 27 16 51 39.7–.30 57.50N–.01 126.76E–.03 10
¶601990185
YARS I 28 04 01 43.6–.50 56.65N–.02 133.06E–.04 10
¶601990210
YARS I 28 07 58 47.8–.60 57.06N–.03 123.52E–.05 10
¶601990218
YARS I 28 10 34 48.1–.20 57.57N–.01 128.01E–.02 10
¶601990223
YARS I 28 13 58 53.5–.30 56.60N–.02 121.59E–.02 10
¶601990236
YARS I 28 16 59 44.9–.30 56.84N–.02 123.17E–.03 10
¶601990247
YARS I 29 08 27 35.9–.20 56.82N–.01 124.33E–.01 10
¶601990286
YARS I 29 19 04 08.0–1.4 57.85N–.06 120.80E–.06 10
¶601990309
YARS I 30 02 10 37.4–.20 56.36N–.01 122.83E–.02 10
¶601990347
YARS I 30 06 57 20.7–.10 57.45N–.01 120.74E–.01 10
¶601990358
YARS I 30 09 24 42.7–.20 57.46N–.01 120.76E–.02 10
¶601990362
YARS I 30 13 00 52.2–.20 57.44N–.01 120.72E–.02 10
¶601990373
YARS I 30 17 27 51.0–1.2 56.84N–.04 122.29E–.06 10
¶601990387
YARS I 31 04 10 14.5–2.2 57.76N–.09 123.07E–.05 10
¶601990429
YARS I 31 14 09 43.0–.20 56.89N–.01 123.14E–.02 10
¶601990456
YARS I 31 14 20 40.7–.90 57.33N–.05 120.80E–.04 10
¶601990458
YARS I 31 19 25 30.1–.70 56.34N–.08 122.94E–.04 10
¶601990477
YARS I 31 21 05 50.7–.20 57.47N–.01 120.85E–.02 10
¶601990482
YARS I 31 23 36 04.0–.20 56.87N–.01 123.16E–.02 10
¶601990495
SKHL II 01 20 39 19.5–.70 53.47N 133.84E 12–2 3.7b
¶600774587
IDC II 03 07 25 34.6–753 50.92N 130.14E 0
¶17191581
IDC Error ellipse: s-maj=279.3km s-min=130.2km az=161.0.
ISC II 05 12 42 15.1–.53 50.70N–.03 135.10E–.03 10 3.7b 46 1-74
ISCJB II 05 12 42 13.0–.38 50.67N–.03 134.99E–.05 10 3.8s,3.7b ¶17191738
SKHL II 05 12 42 14.5–.40 50.72N 134.99E 14–4 4.9b,4.0s
MOS II 05 12 42 15.9–2.0 50.64N 135.07E 15 4.2b,4.0s
IDC II 05 12 42 20.4–5.4 50.49N 134.95E 33–45 3.6,3.6
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=3.9km az=152.8.
SKHL Event type fe. Felt (III) at Dzhamku, Amgun', Harpichan; (II-III) at Gorniy, Solnechniy;. (II) at Komsomol'sk na Amure.
MOS Event type fe. Error ellipse: s-maj=14.2km s-min=10.3km az=108.6. Felt (III-IV) at Gorniy, Solnechniy; (III) at Dzhamku; (II-III) at Amgun', Kharpichan, Komsomol'sk-na-Amure. Moment Tensor Solution.
IDC Error ellipse: s-maj=20.7km s-min=17.7km az=121.0.
SKHL II 05 15 21 54.0–.40 50.80N 135.08E 10 3.7b
¶600774595
SKHL II 05 21 15 19.6–.40 50.90N 134.32E 10 3.9b
¶600774596
ISC II 15 19 09 28.8–1.2 57.33N–.03 120.71E–.02 5–10 87 1-15
YARS II 15 19 09 26.7–.20 57.46N–.01 120.82E–.02 10 ¶16166852
MOS II 15 19 09 28.9–3.5 57.36N 120.71E 8 4.6b
BYKL II 15 19 09 28.5–.31 57.38N 120.74E 4.6b
ISC Event type se.
MOS Error ellipse: s-maj=17.9km s-min=14.9km az=103.6.
BYKL Event type se.
ISC II 15 22 47 34.6–1.2 57.38N–.03 120.80E–.02 6–8 3.6b 99 1-58
YARS II 15 22 47 32.8–.20 57.46N–.01 120.80E–.02 10 3.6b ¶16166853
IDC II 15 22 47 34.1–1.9 57.39N 120.83E 0 3.7,3.5
BYKL II 15 22 47 35.0–.49 57.38N 120.75E 3.7,3.5
MOS II 15 22 47 38.4–1.8 58.29N 120.10E 10 4.6b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=47.2km s-min=16.0km az=154.0.
BYKL Event type se.
MOS Error ellipse: s-maj=12.8km s-min=8.9km az=84.5.
SKHL II 16 12 55 38.5–.30 54.08N 127.26E 7–3 3.9b
¶600774653
SKHL II 18 21 21 36.9–.40 52.89N 135.67E 24–6 4.0b
¶600774656
SKHL III 11 16 08 47.2–.10 53.93N 128.28E 19–4 4.1b
¶600847855
ISC III 16 17 04 09.9–.63 56.60N–.02 121.66E–.02 10–4 3.8b 202 0-86
YARS III 16 17 04 08.9–.10 56.63N–.01 121.56E–.01 10 3.8b ¶16390735
BYKL III 16 17 04 09.2–.33 56.62N 121.58E 10–3 3.8b
IDC III 16 17 04 09.7–.67 56.62N 121.58E 0 3.9,3.8
MOS III 16 17 04 10.7–1.7 56.62N 121.50E 25 4.2b,3.8
ISC Event type se.
BYKL Event type se.
IDC Error ellipse: s-maj=15.8km s-min=10.0km az=145.0.
MOS Error ellipse: s-maj=12.3km s-min=8.8km az=60.4.
ISC III 16 17 12 38.6–.45 56.61N–.02 121.59E–.02 12–2 4.9b,4.8s 794 0-150
BJI III 16 17 12 34.1 56.75N 122.01E 11 5.4s,5.0 ¶16327745
IDC III 16 17 12 36.9–.41 56.58N 121.56E 0 4.7,4.6
YARS III 16 17 12 36.1–.10 56.64N–.01 121.58E–.01 10 4.7,4.6
BYKL III 16 17 12 36.2–.33 56.63N 121.59E 9–4 5.3W,4.6

MOS III 16 17 12 37.3–1.1 56.52N 121.47E 16 5.1b,4.6s
ISCJB III 16 17 12 37.1–.10 56.61N–.02 121.33E–.02 10 4.8b,4.7s
NEIC III 16 17 12 41.0–.55 56.55N 121.39E 26–4 4.9b,4.7s
GCMT III 16 17 12 41.0–.20 56.68N 121.57E 16–1 5.1W,4.7s
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=7.9km az=151.0.
BYKL Event type se. FELT I=VI-V MSK at Yktali,IV at Ust-Nyukzha,Olekma, III-IV at Larba,) Chilchi,Berkakit, III at Novaya Chara, II at Lopcha). #STATIONS ALE FFC ANMO PET INCN SSE KMI LSA ABKT GNI ARU LVZ KBS. Moment Tensor Solution.
MOS Event type fe. Error ellipse: s-maj=6.4km s-min=4.9km az=94.8. Felt (III) at Khani, Chara. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.7km s-min=1.8km az=159.8.
NEIC Event type se. Error ellipse: s-maj=4.6km s-min=3.2km az=158.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s43,c60; s96,c180; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.41±.12 $M_{\theta\theta}$3.68±.11; $M_{\phi\phi}$-3.27±.12; $M_{r\theta}$-0.86±.29; $M_{\theta\phi}$3.38±.10; $M_{\phi r}$-0.49±.32; Best double couple: NP1:ϕ_s203.00000°,δ84.00000°,λ172.00000°. NP2:ϕ_s293.00000°,δ82.00000°,λ6.00000°. Principal axes: T 5.2250,Plg10.0000°,Azm158.0000°; N -0.5730,Plg80.0000°,Azm349.0000°; P -4.6470,Plg2.0000°,Azm248.0000° M_o4.93600×10^{16}

YARS III 16 18 22 26.8–.20 56.57N–.03 121.55E–.01 10
¶16390736

ISC III 16 18 22 48.7–.74 56.58N–.02 121.53E–.02 7–5 4.2s,4.0b 247 0-100
BJI III 16 18 22 45.5 56.84N 122.46E 15 4.1b,4.0b **¶602347571**
MOS III 16 18 22 48.1–1.8 56.53N 121.62E 10 4.3b,4.0b
YARS III 16 18 22 48.4–.10 56.60N–.01 121.56E–.01 10 4.3b,4.0b
BYKL III 16 18 22 48.6–.28 56.64N 121.60E 5–4 4.3b,4.0b
IDC III 16 18 22 49.6–.82 56.63N 121.49E 0 4.1,4.1s
NEIC III 16 18 22 50.9–.45 56.67N 121.56E 10 4.0b,4.1s
ISC Event type se.
MOS Error ellipse: s-maj=10.9km s-min=8.5km az=64.4.
BYKL Event type se.
IDC Error ellipse: s-maj=18.2km s-min=10.3km az=146.0.
NEIC Event type se. Error ellipse: s-maj=11.0km s-min=7.8km az=159.0.

ISC III 16 22 00 36.1–.79 56.59N–.02 121.56E–.02 4–5 4.2b,3.7s 208 0-150
BJI III 16 22 00 33.2 56.85N 122.17E 18 5.3L,4.2b **¶16390737**
BYKL III 16 22 00 35.5–.29 56.61N 121.61E 10–4 5.3L,4.2b
YARS III 16 22 00 35.4–.10 56.63N–.01 121.56E–.01 10 5.3L,4.2b
MOS III 16 22 00 36.9–1.4 56.49N 121.57E 22 4.6b,4.2b
IDC III 16 22 00 36.6–.55 56.67N 121.42E 0 4.2,4.1
NEIC III 16 22 00 38.0–.34 56.67N 121.48E 10 4.7b,4.1
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=8.0km s-min=6.5km az=89.7.
IDC Error ellipse: s-maj=13.7km s-min=9.0km az=155.0.
NEIC Event type se. Error ellipse: s-maj=10.2km s-min=5.9km az=173.0.

ISC III 17 13 41 50.8–.81 56.57N–.03 121.54E–.02 9–6 70 0-13
MOS III 17 13 41 49.3–2.4 56.67N 121.61E 7 4.3b **¶16390738**
BYKL III 17 13 41 51.5–.42 56.65N 121.56E 4–6 4.3b
YARS III 17 13 41 51.5–.40 56.65N–.03 121.56E–.03 10 4.3b
ISC Event type se.
BYKL Event type se.

YARS III 19 17 11 54.2–.20 56.66N–.01 121.57E–.02 10
¶602338402

ISC III 19 17 32 54.1–1.0 56.50N–.02 121.51E–.02 2–8 101 0-16
BYKL III 19 17 32 55.7–.44 56.69N 121.62E 4–8 **¶16390740**
YARS III 19 17 32 55.4–.10 56.60N–.01 121.52E–.01 10
MOS III 19 17 32 56.2–1.9 56.50N 121.38E 10 4.4b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=25.7km s-min=20.4km az=67.8.

ISC III 20 21 55 06.6–.55 56.52N–.02 121.56E–.02 9–3 3.6b 164 0-77
BJI III 20 21 55 02.9 56.77N 121.87E 15 4.4s,4.3L **¶16390741**
MOS III 20 21 55 05.9–1.5 56.53N 121.60E 10 4.0b,4.3L
YARS III 20 21 55 06.8–.10 56.62N–.01 121.54E–.01 10 4.0b,4.3L
BYKL III 20 21 55 06.4–.23 56.61N 121.55E 8–3 4.0b,4.3L
IDC III 20 21 55 07.5–.89 56.66N 121.45E 0 3.8,3.8
ISC Event type se.
MOS Error ellipse: s-maj=10.5km s-min=8.6km az=75.2.
BYKL Event type se.
IDC Error ellipse: s-maj=20.8km s-min=11.5km az=141.0.

IDC III 24 05 01 49.0–6.5 50.69N 131.29E 0
¶17198290

IDC Error ellipse: s-maj=127.2km s-min=41.7km az=78.0.

IDC III 25 08 36 20.9–6.2 50.40N 130.44E 0
¶17198470

IDC Error ellipse: s-maj=130.0km s-min=40.4km az=52.0.

ISC III 29 07 06 49.7–.91 55.41N–.04 135.46E–.04 10 28 3-9
SKHL III 29 07 06 51.0–.70 55.35N 135.35E 5–4 3.6b **¶600847982**
YARS III 29 07 06 56.1–.40 55.84N–.01 135.12E–.03 10 3.6b
ISC Event type ke.

IDC III 29 07 45 23.5–7.1 50.03N 129.77E 0
¶17199046

IDC Error ellipse: s-maj=139.2km s-min=43.8km az=29.0.

ISC III 29 17 38 50.5–.88 56.64N–.03 121.52E–.02 8–6 79 0-13
YARS III 29 17 38 51.6–.30 56.64N–.01 121.52E–.02 10 **¶16413008**
BYKL III 29 17 38 52.4–.34 56.62N 121.52E
MOS III 29 17 38 53.3–2.0 56.55N 121.43E 10 4.2b
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=31.6km s-min=19.8km az=50.7.

SKHL IV 01 06 51 09.1–.90 51.19N 131.24E 9–1 3.5b
¶600972775

ISC IV 02 07 18 24.1–.81 56.63N–.03 121.50E–.02 9–6 69 0-13
YARS IV 02 07 18 24.1–.20 56.67N–.01 121.53E–.02 10 **¶16446257**
BYKL IV 02 07 18 24.9–.46 56.63N 121.61E 14–5
ISC Event type se.
BYKL Event type se.

SKHL IV 08 17 12 16.4–.50 54.06N 122.79E 8–2 4.1b
¶600972861

ISC IV 09 09 00 08.0–.71 56.65N–.03 121.66E–.02 10 51 0-7
BYKL IV 09 09 00 08.9–.90 56.61N 121.64E **¶601137516**
YARS IV 09 09 00 09.8–.20 56.60N–.01 121.61E–.01 10
ISC Event type se.
BYKL Event type se.

SKHL IV 15 14 02 42.1–.30 51.69N 132.88E 7–3 3.5b
¶600972975

ISC IV 25 15 22 40.6–1.2 56.69N–.03 121.49E–.02 1–8 3.8b,3.0s 140 1-81
IDC IV 25 15 22 41.0–.74 56.64N 121.38E 0 3.9,3.9L **¶16476082**
MOS IV 25 15 22 40.1–1.5 56.60N 121.48E 9 4.5b,3.9L
BYKL IV 25 15 22 41.1–.30 56.62N 121.56E 4.5b,3.9L
BJI IV 25 15 22 41.9 56.95N 121.00E 5 4.4b,4.2b
YARS IV 25 15 22 41.0–.20 56.60N–.01 121.52E–.02 10 4.4b,4.2b
NEIC IV 25 15 22 42.3–.40 56.72N 121.44E 10 4.5b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=10.7km az=136.0.
MOS Error ellipse: s-maj=10.9km s-min=8.2km az=49.8.
BYKL Event type se.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.8km az=157.0.

ISC IV 25 22 13 49.1–1.9 56.60N–.03 121.52E–.02 2–12 4.0b,3.3s 192 1-83
MOS IV 25 22 13 47.8–1.1 56.66N 121.46E 8 4.6b,3.3s **¶16502289**
YARS IV 25 22 13 49.6–.20 56.61N–.01 121.53E–.02 10 4.6b,3.3s
BJI IV 25 22 13 49.7 56.75N 121.94E 31 5.0L,4.3b
BYKL IV 25 22 13 49.1–.32 56.64N 121.55E 4.4W,4.3b
IDC IV 25 22 13 53.0–3.9 56.60N 121.36E 28–29 4.0L,3.9
NEIC IV 25 22 13 54.5–.32 56.60N 121.34E 35 4.5b,3.9
ISC Event type se.
MOS Error ellipse: s-maj=8.3km s-min=7.5km az=89.5.
BYKL Event type se. #STATIONS MAJO INCN ENH KMI KURK KIEV LVZ KBS ALE. Moment Tensor Solution.
IDC Error ellipse: s-maj=12.4km s-min=9.8km az=130.0.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=6.4km az=161.0.

ISC IV 28 00 33 09.8–.48 56.61N–.03 121.54E–.02 10 3.4b 96 1-72
YARS IV 28 00 33 09.9–.10 56.60N–.01 121.51E–.01 10 3.4b **¶16502292**
BYKL IV 28 00 33 09.8–.44 56.63N 121.55E 3.4b
MOS IV 28 00 33 09.2–1.2 56.43N 121.44E 12 4.0b
IDC IV 28 00 33 10.3–1.1 56.57N 121.51E 0 3.7,3.7L
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=10.9km s-min=9.6km az=73.6.
IDC Error ellipse: s-maj=20.6km s-min=12.1km az=145.0.

ISC V 04 01 15 19.1–.66 56.66N–.02 121.69E–.02 10 105 0-13
MOS V 04 01 15 17.7–2.3 56.68N 121.70E 3 4.4b **¶16532957**
BYKL V 04 01 15 19.9–.22 56.58N 121.51E 2–3 4.4b
YARS V 04 01 15 19.5–.10 56.64N–.01 121.53E–.01 10 4.4b
ISC Event type se.
BYKL Event type se.

ISC VI 06 11 50 54.2–.46 56.61N–.02 121.52E–.02 10 3.5b,2.6s 106 1-57
BYKL VI 06 11 50 54.9–.52 56.66N 121.62E 3.5b,2.6s **¶16620910**
YARS VI 06 11 50 54.7–.20 56.65N–.01 121.59E–.01 10 3.5b,2.6s
MOS VI 06 11 50 55.0–1.2 56.58N 121.36E 13 4.2b,2.6s
IDC VI 06 11 50 55.9–1.4 56.67N 121.54E 0 3.7,3.7
ISC Event type se.
BYKL Event type se.
MOS Error ellipse: s-maj=12.8km s-min=9.4km az=85.3.
IDC Error ellipse: s-maj=30.4km s-min=15.9km az=139.0.

ISC VI 27 07 09 48.7–.90 56.65N–.03 121.45E–.02 8–7 53 0-14
YARS VI 27 07 09 48.6–.20 56.67N–.01 121.44E–.02 10 **¶601138222**
BYKL VI 27 07 09 49.8–.52 56.62N 121.48E 4–7
ISC Event type se.
BYKL Event type se.

(657) Priamurye-Northeastern China border region.

ISC I 07 23 34 10.6–.33 43.03N–.04 131.16E–.03 555–3 4.8b 1130 0-164
JMA I 07 23 34 08.0–.30 43.16N 131.49E 633 5.2 **¶15909046**
BJI I 07 23 34 10.0 43.22N 131.10E 560 5.2b,5.0b
MOS I 07 23 34 10.0–.85 43.08N 131.10E 561 4.8b,5.0b
SKHL I 07 23 34 10.9–.50 43.09N 131.19E 555–5 5.4b,5.1s
NEIC I 07 23 34 10.9–.22 43.01N 131.04E 553–3 4.8b,5.1s
ISCJB I 07 23 34 10.0–.14 43.03N–.02 131.06E–.02 552–1 4.8b,5.1s
IDC I 07 23 34 11.4–.47 43.07N 131.02E 560–5 5.1,4.3
ISC Event type se.
JMA Error ellipse: s-maj=3.3km s-min=4.1km az=-1.0.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=114.2.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.7km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.2km az=168.1.
IDC Error ellipse: s-maj=6.9km s-min=6.4km az=171.0.

SKHL II 01 05 02 11.2–.40 53.61N 125.39E 13–4 3.9b
¶600774586

SKHL III 08 15 50 27.5–1.3 47.23N 130.06E 10 3.8b
¶600847848

SKHL III 09 08 21 02.0–1.4 47.90N 130.62E 10 3.5b
¶600847850

SKHL IV 03 07 43 21.6–.60 48.95N 131.43E 9–3 4.4b
¶600972799

SKHL IV 03 23 36 35.1–.50 53.77N 125.48E 10–4 3.9b
¶600972800

SKHL IV 11 16 51 24.0–.70 48.89N 131.34E 8–1 3.9b
¶600972911

SKHL IV 18 00 22 09.1–1.4 48.83N 131.31E 6–4 3.8b
¶600973024

SKHL IV 18 02 41 34.5–.50 48.84N 131.29E 3–2 3.5b
¶600973025

ISC IV 21 03 08 26.5–.80 48.82N–.04 131.74E–.04 8 21 0-55
ISCJB IV 21 03 08 25.3–.85 48.96N–.05 131.94E–.07 8 3.5b **¶17201668**
IDC IV 21 03 08 27.1–1.8 48.82N 131.65E 8–13 3.7,3.6
SKHL IV 21 03 08 29.0–.40 48.83N 131.78E 21–3 4.0b,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.1km s-min=6.1km az=39.2.
IDC Error ellipse: s-maj=46.7km s-min=12.2km az=92.0.

ISC IV 26 04 00 05.8–1.3 48.24N–.05 130.81E–.08 10 10 3-24
BJI IV 26 04 00 04.1 48.12N 130.69E 6 3.7L **¶16459957**
SKHL IV 26 04 00 06.1–.80 48.21N 130.77E 15–4 4.2b
ISC Event type ke.

ISC V 10 15 26 05.1–.19 43.32N–.02 131.09E–.02 555–1 5.4b 2315 1-164
NIED V 10 15 26 00 43.50N 131.50E 680 5.5W **¶16503286**
JMA V 10 15 26 01.4–.20 43.52N 131.50E 632–4 5.6
ISCJB V 10 15 26 03.9–.13 43.28N–.01 130.95E–.02 546–1 5.4b
BJI V 10 15 26 03.1 43.30N 131.20E 560 6.1b,5.7b
SKHL V 10 15 26 04.3–.60 43.31N 131.17E 554–8 6.5,6.4
GCMT V 10 15 26 04.6–.60 43.61N 130.98E 564–4 5.7W,6.4
MOS V 10 15 26 04.0–.76 43.34N 131.11E 558 5.5b,6.4
NEIC V 10 15 26 04.6–.07 43.29N 130.94E 545 5.4b,6.4
IDC V 10 15 26 05.6–.21 43.33N 130.98E 555–2 5.6,4.7
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s261.00000°,δ7.00000°,λ16.00000°. NP2:ϕ_s155.00000°,δ88.00000°,λ97.00000°. M_o2.22000×10^{17}
JMA Error ellipse: s-maj=2.2km s-min=2.4km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=2.0km s-min=1.6km az=142.5.
GCMT Error ellipse: s-maj=6.7km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s47,c63;Duration: 1ŝ7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.74±.15 $M_{\theta\theta}$2.16±.23; $M_{\phi\phi}$-2.91±.26; $M_{r\theta}$1.53±.23; $M_{\theta\phi}$2.33±.22; $M_{\phi r}$-3.24±.23; Best double couple: NP1:ϕ_s298.00000°,δ86.00000°,λ-37.00000°. NP2:ϕ_s31.00000°,δ53.00000°,λ-175.00000°. Principal axes: T 3.1710,Plg22.0000°,Azm351.0000°; N 2.6010,Plg52.0000°,Azm112.0000°; P -5.7790,Plg29.0000°,Azm248.0000° M_o4.47500×10^{17}
MOS Error ellipse: s-maj=6.3km s-min=4.5km az=102.7.
NEIC Event type se. Error ellipse: s-maj=2.5km s-min=2.0km az=141.0.
IDC Error ellipse: s-maj=4.7km s-min=3.8km az=60.0.

ISC VI 07 17 02 08.5–.67 42.1N–.10 131.0E–.10 576 3.4b 22 2-80
ISCJB VI 07 17 02 07.5–.48 42.04N–.08 130.9E–.10 576 3.3b **¶17205499**
IDC VI 07 17 02 08.3–.59 42.03N 130.87E 572–6 3.8,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.1km s-min=10.8km az=18.6.
IDC Error ellipse: s-maj=11.4km s-min=11.4km az=64.0.

SKHL VI 09 23 19 07.7–.30 45.12N 130.87E 5 4.2b
¶16637889

(658) Northeastern China.

ISC I 15 00 43 44.2–.39 48.80N–.03 125.84E–.03 10 4.0b,3.6s 103 4-81
ISCJB I 15 00 43 41.5–.29 48.74N–.03 126.01E–.05 10 4.0b,3.5s **¶16057165**
SKHL I 15 00 43 42.7–.80 48.67N 125.92E 15–3 4.9b,4.5s
BJI I 15 00 43 42.0 48.59N 125.98E 10 4.8L,4.4b
MOS I 15 00 43 42.1–1.8 48.77N 126.06E 10 4.3b,4.4b
IDC I 15 00 43 42.5–.67 48.68N 125.86E 0 4.1,3.9
NEIC I 15 00 43 44.2–.42 48.66N 125.86E 10 4.2b,3.9
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.5km s-min=4.0km az=21.9.
SKHL Event type fe. Felt (II-III) at Blagoveshchensk.
MOS Event type fe. Error ellipse: s-maj=9.9km s-min=8.1km az=97.5. Felt (II-III) at Blagoveshchensk. Moment Tensor Solution.
IDC Error ellipse: s-maj=17.0km s-min=15.2km az=14.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=7.8km az=7.0. Felt [III] at Blagoveshchensk, Russia.

IDC II 06 09 45 52.9–5.4 39.25N 111.25E 0 3.7,3.6
¶16019437

IDC Error ellipse: s-maj=110.4km s-min=24.9km az=83.0.

IDC III 01 23 09 07.5–10 37.07N 112.56E 0 3.4,3.3
¶17193101

IDC Error ellipse: s-maj=249.1km s-min=39.4km az=179.0.

ISC III 06 17 51 35.2–.37 39.05N–.03 111.70E–.03 10 4.1b,3.8s 106 1-90
IDC III 06 17 51 32.0–.55 39.01N 111.82E 0 4.1,3.9 **¶16197850**
ISCJB III 06 17 51 32.3–.24 39.09N–.02 111.79E–.03 10 4.0b,3.7s

MOS III 06 17 51 33.0–1.7 39.00N 111.81E 18 4.4b,3.7s
NEIC III 06 17 51 34.1–1.3 39.02N 111.67E 9–9 4.2b,3.7s
BJI III 06 17 51 34.3 39.01N 111.76E 6 4.4b,4.4L
ISC Event type se.
IDC Error ellipse: s-maj=17.9km s-min=12.5km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=3.5km az=149.2.
MOS Error ellipse: s-maj=9.6km s-min=6.6km az=94.6.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.5km az=72.0.
ISC III 08 15 19 41.4–.53 42.02N–.04 112.42E–.04 10 3.7b,3.2s 63 1-69
ISCJB III 08 15 19 39.3–.39 41.93N–.03 112.58E–.05 10 3.6b,3.1s **¶16294216**
IDC III 08 15 19 39.9–.75 41.90N 112.67E 0 3.8,3.6
OBM III 08 15 19 40.0–.15 41.93N 112.71E 2 3.9L,3.6
BJI III 08 15 19 40.3 41.96N 112.71E 7 4.4b,4.4L
NEIC III 08 15 19 40.8–.71 41.97N 112.67E 10 4.4L,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.3km az=34.4.
IDC Error ellipse: s-maj=21.2km s-min=15.0km az=47.0.
OBM Error ellipse: s-maj=3.0km s-min=2.1km az=27.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.0km az=65.0.
ISC III 19 05 48 28.4–1.2 39.1N–.10 111.0E–.20 35 3.5b 9 9-72
IDC III 19 05 48 23.1–1.1 39.08N 111.09E 0 3.7,3.6 **¶17197140**
ISCJB III 19 05 48 26.2–1.1 39.2N–.10 111.1E–.30 33 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
BJI IV 26 03 15 52.7 39.35N 113.02E 8 3.7L
¶16459955

(659) North Korea.

IDC I 05 05 46 05.7–4.1 41.73N 126.97E 0 2.8,2.8
¶17189481
IDC Error ellipse: s-maj=50.4km s-min=17.1km az=112.0.
IDC II 18 15 25 58.1–1.7 41.73N 126.89E 0 3.5b,3.3
¶17192487
IDC Error ellipse: s-maj=22.4km s-min=17.1km az=107.0.
IDC III 06 08 58 14.5–3.0 42.16N 129.55E 0 2.5,2.5
¶17193337
IDC Error ellipse: s-maj=51.3km s-min=20.0km az=121.0.
IDC V 11 05 30 07.7–4.0 41.64N 127.36E 0 2.6,2.6
¶17203357
IDC Error ellipse: s-maj=48.8km s-min=18.0km az=113.0.
IDC V 19 09 38 21.6–3.1 42.25N 129.38E 0 2.6,2.6
¶17203958
IDC Error ellipse: s-maj=55.6km s-min=20.1km az=123.0.
IDC V 29 05 46 42.8–1.6 41.75N 130.90E 577–16 3.5,2.8
¶17204675
IDC Error ellipse: s-maj=37.3km s-min=22.6km az=2.0.
IDC VI 07 09 50 34.7–3.0 42.38N 129.06E 0 2.6,2.6
¶17205475
IDC Error ellipse: s-maj=45.9km s-min=15.7km az=120.0.

(660) Sea of Japan.

JMA I 10 02 47 20.1–.40 36.95N 135.59E 373–4 3.5
¶600517258
JMA Error ellipse: s-maj=3.3km s-min=2.7km az=-1.0.
ISC I 25 10 12 15.7–.64 38.85N–.04 135.79E–.04 35 3.7b 47 1-64
NIED I 25 10 12 00 38.90N 135.80E 5 3.7W **¶17190957**
IDC I 25 10 12 11.0–.81 38.84N 135.79E 0 3.7,3.6
ISCJB I 25 10 12 13.0–.35 38.86N–.02 135.78E–.03 33 3.5b,3.5s
JMA I 25 10 12 12.1–.20 38.86N 135.77E 29 4.1,3.5s
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s210.00000°,δ27.00000°,λ118.00000°. NP2:ϕ_s360.00000°,δ66.00000°,λ76.00000°. $M_0$4.54000×10^{14}
IDC Error ellipse: s-maj=20.2km s-min=16.5km az=78.0.
ISCJB Event type ke. Error ellipse: s-maj=3.6km s-min=3.5km az=35.2.
JMA Error ellipse: s-maj=1.1km s-min=1.7km az=-1.0.
ISC I 26 01 45 33.9–.82 38.3N–.10 134.15E–.09 447 3.1b 30 3-62
ISCJB I 26 01 45 33.1–.49 38.30N–.08 134.08E–.08 447 3.1b **¶17190999**
JMA I 26 01 45 33.5–.40 38.21N 134.17E 459–5 3.7
IDC I 26 01 45 34.0–1.3 38.33N 134.02E 440–25 3.6,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.3km s-min=5.9km az=29.1.
JMA Error ellipse: s-maj=3.3km s-min=3.5km az=-1.0.
IDC Error ellipse: s-maj=34.3km s-min=14.6km az=54.0.
ISC I 29 05 00 55.5–.85 39.6N–.10 132.68E–.10 500 2.9b 20 4-63
ISCJB I 29 05 00 55.2–.60 39.5N–.10 132.59E–.09 500 3.0b **¶17191236**
IDC I 29 05 00 56.5–1.2 39.63N 132.55E 516–16 3.4,2.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.2km s-min=7.7km az=18.8.
IDC Error ellipse: s-maj=36.9km s-min=17.5km az=58.0.
ISC II 07 21 05 43.4–.77 39.08N–.08 135.95E–.08 350 3.3b 25 2-65
ISCJB II 07 21 05 43.3–.49 39.12N–.06 135.87E–.07 350 3.2b **¶17191878**
JMA II 07 21 05 43.2–.30 38.96N 136.04E 381–3 3.0
IDC II 07 21 05 43.6–.74 39.04N 136.09E 364–10 3.8,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.4km s-min=6.6km az=26.9.
JMA Error ellipse: s-maj=2.2km s-min=1.7km az=-1.0.
IDC Error ellipse: s-maj=19.8km s-min=11.4km az=69.0.
JMA II 09 13 52 26.8 36.19N 135.95E 16 3.3
¶600527417
JMA Event type fe.
ISC II 14 21 26 50.6–.75 37.33N–.08 134.38E–.06 385 3.0b 32 1-66
JMA II 14 21 26 49.6–.20 37.27N 134.38E 416–3 3.4 **¶17192266**
ISCJB II 14 21 26 50.8–.39 37.47N–.06 134.27E–.06 385 3.0b
IDC II 14 21 26 51.0–1.1 37.28N 134.33E 400–14 3.5,2.9
ISC Event type ke.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=6.1km az=150.5.
IDC Error ellipse: s-maj=27.2km s-min=15.2km az=154.0.
ISC II 22 18 37 35.2–1.4 37.8N–.10 134.8E–.10 403 11 2-57
ISCJB II 22 18 37 34.8–.67 37.81N–.09 134.8E–.10 403 2.4b **¶17192720**
JMA II 22 18 37 35.7–.20 37.85N 134.72E 389–3 2.7
IDC II 22 18 37 39.1–1.2 38.03N 134.79E 331–20 3.5,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.6km s-min=12.2km az=179.3.
JMA Error ellipse: s-maj=3.3km s-min=2.6km az=-1.0.
IDC Error ellipse: s-maj=27.4km s-min=25.6km az=24.0.
ISC II 28 17 46 39.5–.90 37.0N–.10 135.6E–.10 350 3.3b 15 1-67
ISCJB II 28 17 46 39.6–.58 37.10N–.08 135.5E–.10 350 3.2b **¶17193011**
IDC II 28 17 46 39.9–1.2 36.96N 135.60E 361–14 3.5,2.9
JMA II 28 17 46 40.5–.40 36.93N 135.50E 349–4 3.0,2.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=9.4km az=34.9.
IDC Error ellipse: s-maj=21.0km s-min=18.2km az=90.0.
JMA Error ellipse: s-maj=2.2km s-min=3.6km az=-1.0.
ISC III 07 08 00 22.1–.82 38.31N–.10 134.52E–.08 419 2.9b 25 2-65
JMA III 07 08 00 21.3–.40 38.21N 134.60E 446 3.5 **¶17193400**
ISCJB III 07 08 00 21.2–.53 38.38N–.09 134.43E–.07 419 3.0b
IDC III 07 08 00 22.5–1.3 38.24N 134.30E 422–16 3.5,2.9
ISC Event type ke.
JMA Error ellipse: s-maj=5.6km s-min=4.4km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=6.8km az=8.0.
IDC Error ellipse: s-maj=22.9km s-min=15.9km az=59.0.
ISC III 09 14 59 05.3–.91 38.4N–.10 133.85E–.08 447 2.9b 26 3-52
JMA III 09 14 59 02.8–.70 38.33N 133.71E 485 3.5 **¶17193563**
ISCJB III 09 14 59 04.6–.50 38.38N–.06 133.81E–.07 447 2.8b
IDC III 09 14 59 05.4–1.2 38.31N 133.67E 439–22 3.4,2.6
ISC Event type ke.
JMA Error ellipse: s-maj=8.9km s-min=6.1km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=6.8km az=163.1.
IDC Error ellipse: s-maj=29.9km s-min=20.7km az=162.0.
JMA III 11 17 29 35.6–.20 35.86N 130.59E 1–2 4.1
¶602652793
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC III 14 01 00 13.6–3.6 38.53N 134.78E 449–50 3.8,3.1
¶17195030
IDC Error ellipse: s-maj=80.2km s-min=39.6km az=16.0.
IDC III 16 10 35 59.6–3.1 37.87N 135.91E 49–34 4.0,4.0s
¶17196438
IDC Error ellipse: s-maj=33.3km s-min=20.9km az=67.0.
ISC IV 28 03 21 43.2–.79 37.4N–.10 134.86E–.10 378 3.0b 19 2-66
ISCJB IV 28 03 21 42.7–.48 37.46N–.09 134.81E–.09 378 3.0b **¶17202275**
IDC IV 28 03 21 43.2–1.1 37.33N 134.84E 381–13 3.5,3.0
JMA IV 28 03 21 44.1–.30 37.36N 134.86E 377–4 3.1,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.7km s-min=8.4km az=31.7.
IDC Error ellipse: s-maj=18.0km s-min=14.4km az=77.0.
JMA Error ellipse: s-maj=2.2km s-min=1.8km az=-1.0.
IDC IV 29 07 13 12.0–1.7 41.80N 131.24E 551–17 3.3,2.6
¶17202357
IDC Error ellipse: s-maj=42.4km s-min=25.5km az=144.0.
ISC V 10 15 26 45.1–1.2 41.9N–.20 132.2E–.20 35 4.9b 13 20-62
IDC V 10 15 26 39.9–1.2 41.86N 132.21E 0 4.9,4.9 **¶17203294**
ISCJB V 10 15 26 42.5–1.1 41.8N–.20 132.2E–.20 33 4.9b,4.9
ISC Event type ke.
ISCJB Event type ke.
ISC VI 12 08 52 36.7–1.2 37.7N–.10 134.8E–.10 378 11 2-61
JMA VI 12 08 52 35.8–.40 37.69N 134.97E 403–4 2.9 **¶17205821**
IDC VI 12 08 52 36.3–1.3 37.72N 134.89E 393–21 3.3,2.8
ISCJB VI 12 08 52 37.1–.79 37.8N–.10 134.9E–.10 378 3.0b,2.8
ISC Event type ke.
ISCJB Event type ke.
ISC VI 13 18 51 39.3–.58 37.04N–.06 135.07E–.05 378–6 3.4b 75 1-81
NIED VI 13 18 51 00 37.00N 135.00E 420 4.2W **¶16720919**
ISCJB VI 13 18 51 38.5–.28 37.03N–.05 135.10E–.04 386–3 3.5b
JMA VI 13 18 51 38.8–.10 37.05N 135.04E 383–1 3.6
IDC VI 13 18 51 39.3–.62 37.08N 135.07E 376–8 4.0,3.4
ISC Event type ke.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s8.00000°,δ34.00000°,λ137.00000°. NP2:ϕ_s136.00000°,δ67.00000°,λ63.00000°. $M_0$2.64000×10^{15}
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=5.0km az=163.2.
JMA Error ellipse: s-maj=1.1km s-min=0.9km az=-1.0.
IDC Error ellipse: s-maj=13.7km s-min=11.3km az=154.0.
IDC VI 15 21 17 28.4–1.3 37.10N 135.21E 352–15 3.2,2.8
¶17206202
IDC Error ellipse: s-maj=27.8km s-min=20.9km az=99.0.
ISC VI 20 18 26 30.2–.93 37.10N–.08 135.18E–.08 350 2.9b 24 1-60
JMA VI 20 18 26 30.7–.30 36.96N 135.19E 362–3 2.8 **¶17206612**
IDC VI 20 18 26 30.6–1.1 36.98N 135.27E 369–16 3.6,3.0
ISCJB VI 20 18 26 31.3–.53 37.08N–.07 135.15E–.08 350 2.9b,3.0
ISC Event type ke.
ISCJB Event type ke.

(661) Primorye.

ISC II 25 17 00 17.6–.50 43.52N–.06 134.42E–.06 450 3.7b 93 2-75
MOS II 25 17 00 14.7–.92 43.65N 133.93E 405 3.9b **¶17192850**
ISCJB II 25 17 00 16.5–.24 43.57N–.04 134.40E–.04 450 3.6b
SKHL II 25 17 00 16.5–1.0 43.70N 134.21E 420–16 4.4s,4.3b
IDC II 25 17 00 17.4–.92 43.72N 134.06E 426–11 4.0,3.3
JMA II 25 17 00 19.4–.50 43.42N 134.85E 467 3.9,3.3
ISC Event type ke.
MOS Error ellipse: s-maj=10.7km s-min=8.0km az=90.1.
ISCJB Event type ke. Error ellipse: s-maj=4.9km s-min=3.8km az=23.2.
IDC Error ellipse: s-maj=17.5km s-min=10.0km az=68.0.
JMA Error ellipse: s-maj=3.3km s-min=5.7km az=-1.0.
ISC III 21 18 40 52.7–.87 42.4N–.10 133.1E–.10 476 3.5b 24 2-66
ISCJB III 21 18 40 51.4–.65 42.29N–.09 133.2E–.10 476 3.4b **¶17197733**
IDC III 21 18 40 53.4–1.0 42.35N 133.03E 490–12 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.1km s-min=9.4km az=38.0.
IDC Error ellipse: s-maj=15.5km s-min=11.6km az=122.0.
ISC IV 16 11 22 58.3–.76 42.38N–.09 133.0E–.10 476 3.5b 17 2-74
ISCJB IV 16 11 22 57.0–.57 42.31N–.07 133.0E–.10 476 3.4b **¶17201212**
IDC IV 16 11 22 58.5–.63 42.39N 132.86E 481–6 3.9,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.3km s-min=9.9km az=177.8.
IDC Error ellipse: s-maj=14.9km s-min=11.1km az=82.0.
IDC IV 21 10 41 32.7–565 51.88N 137.37E 0
¶17201709
IDC Error ellipse: s-maj=197.4km s-min=151.1km az=20.0.
ISC V 16 09 26 05.8–.79 45.2N–.10 137.29E–.08 350 3.2b 21 3-69
ISCJB V 16 09 26 05.1–.48 45.22N–.09 137.17E–.10 350 3.2b **¶17203740**
IDC V 16 09 26 06.3–1.2 45.28N 137.10E 344–13 3.7,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.3km s-min=7.7km az=29.2.
IDC Error ellipse: s-maj=17.4km s-min=15.8km az=67.0.

(662) Sakhalin Island.

SKHL I 06 04 07 43.1–.40 52.63N 142.78E 10 3.6b
¶600327041
SKHL I 06 22 35 14.5–.50 48.84N 142.30E 10 3.9b
¶600327042
SKHL I 13 03 27 03.7–.40 48.84N 142.17E 10 4.4b
¶600327051
ISC I 22 03 58 22.5–.92 48.81N–.03 142.27E–.05 11 22 0-7
ISCJB I 22 03 58 20.9–.53 48.79N–.02 142.11E–.07 11 **¶17267642**
SKHL I 22 03 58 20.2–1.2 48.75N 142.11E 9–3 4.0b
MOS I 22 03 58 21.6–2.8 48.77N 142.05E 8 4.0b
ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=6.4km s-min=3.2km az=178.8.
SKHL Event type fe. Felt (III) at Uglegorsk, Porech'ye, (II-III) at Krasnopol'ye.
MOS Event type fe. Error ellipse: s-maj=55.2km s-min=18.8km az=95.6. Felt (III) at Uglegorsk, Porech'ye, (II-III) at Krasnopol'ye. Moment Tensor Solution.
ISC I 24 21 39 22.8–1.2 50.74N–.03 143.81E–.04 16–7 4.6b,3.6s 228 1-151
MOS I 24 21 39 20.8–.85 50.78N 143.82E 13 4.6b,3.6s **¶15972744**
ISCJB I 24 21 39 20.3–.66 50.76N–.02 143.83E–.04 9–4 4.5b,3.6s
IDC I 24 21 39 20.5–.44 50.80N 143.78E 0 4.4,4.4
SKHL I 24 21 39 21.5–.80 50.73N 143.70E 11–2 4.9b,4.4s
BJI I 24 21 39 23.2 50.98N 143.83E 33 4.8b,4.6b
NEIC I 24 21 39 25.4–1.3 50.79N 143.75E 32–10 4.6b,4.6b
ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=8.0km s-min=4.5km az=96.8. Felt (III) at Aleksandrovsk-Sakhalinskiy, (II-III) at Tymovskoye. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=4.3km s-min=3.2km az=175.7.
IDC Error ellipse: s-maj=12.3km s-min=9.8km az=138.0.
SKHL Event type fe. Felt (III) at Aleksandrovsk-Sakhalinskiy, (II-III) Tymovskoye.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=3.9km az=134.0. Felt [III] at Aleksandrovsk-Sakhalinskiy and Tymovskoye.
SKHL I 28 17 04 32.3–.30 52.38N 142.86E 10 4.2b
¶600327059
SKHL II 03 12 20 05.3–.50 53.85N 142.64E 10 3.9b
¶600774592
SKHL II 05 14 36 50.9–1.1 52.61N 142.87E 10 4.0b,3.0s
¶600774597
SKHL II 06 07 51 07.6–.20 52.62N 142.88E 10 3.5b,2.8s
¶600774599
SKHL II 06 13 23 42.5–1.1 49.75N 142.75E 10 3.6b
¶600774600
ISC II 08 05 40 50.0–1.1 52.98N–.04 142.47E–.04 11–8 3.9b,3.3s 41 1-80
SKHL II 08 05 40 46.5–.80 52.93N 142.61E 10 4.6b,4.2s **¶16168817**
ISCJB II 08 05 40 48.3–.60 52.90N–.03 142.54E–.05 14–4 3.8b,3.4s
IDC II 08 05 40 48.6–.92 53.05N 142.54E 0 4.1,3.9b
MOS II 08 05 40 49.3–1.2 53.14N 142.56E 13 4.1b,3.9b

ISC Event type ke.
SKHL Event type fe. Felt (II) at Okha.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=4.4km az=139.7.
IDC Error ellipse: s-maj=24.8km s-min=16.4km az=165.0.
MOS Event type fe. Error ellipse: s-maj=20.4km s-min=10.0km az=82.0. Felt (II) at Okha. Moment Tensor Solution.

SKHL	**II**	**08 06 27 08.9–.70**	**53.02N**	**142.45E**	**10**	**3.8b**		**¶600774601**
SKHL	**II**	**08 07 38 38.1–2.5**	**54.05N**	**141.85E**	**10**	**3.7b**		**¶600774602**
SKHL	**II**	**08 19 15 33.3–.90**	**49.97N**	**141.91E**	**10**	**3.6b**		**¶600774603**
SKHL	**II**	**09 03 02 00.1–1.2**	**48.74N**	**142.74E**	**10**	**3.9b**		**¶600774605**
SKHL	**II**	**09 19 25 48.0–.60**	**52.55N**	**142.65E**	**11–2**	**4.5b**		**¶600774606**
SKHL	**II**	**12 18 57 22.7–.20**	**52.92N**	**142.59E**	**10**	**4.7b**		**¶600774650**
SKHL	**II**	**13 15 50 27.0–1.5**	**52.91N**	**142.68E**	**10**	**4.1b**		**¶600774651**
SKHL	**II**	**15 07 54 10.2–1.5**	**54.54N**	**142.51E**	**10**	**3.5b**		**¶600774652**
SKHL	**II**	**17 07 32 02.2–1.2**	**49.60N**	**142.35E**	**10**	**4.0b**		**¶600774654**
SKHL	**II**	**24 07 17 54.5–1.2**	**51.11N**	**141.76E**	**10**	**4.5b,4.4s**		**¶600774659**
SKHL	**II**	**24 21 35 48.3–1.3**	**51.21N**	**141.99E**	**10**	**3.7b**		**¶600774660**
SKHL	**II**	**25 05 50 37.6–.70**	**49.02N**	**142.35E**	**10**	**3.8b**		**¶600774662**
SKHL	**III**	**03 05 40 21.4–.80**	**48.26N**	**141.94E**	**10**	**3.6b**		**¶600847842**
ISC	**III**	**03 11 31 38.5–.61**	**48.27N–.03**	**141.79E–.04**	**5**	**3.6b**	**38**	**1-83**
ISCJB	III	03 11 31 36.9–.38	48.26N–.02	141.73E–.05	5	3.4b,3.1s		¶17193183
MOS	III	03 11 31 37.4–1.4	48.31N	141.67E	12	4.1b,3.1s		
IDC	III	03 11 31 37.3–.92	48.34N	141.57E	0	3.8,3.6		
SKHL	III	03 11 31 37.7–.40	48.28N	141.67E	10	4.3b,3.6		

ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=3.2km az=6.8.
MOS Error ellipse: s-maj=17.1km s-min=9.0km az=98.7.
IDC Error ellipse: s-maj=27.7km s-min=20.7km az=141.0.

ISC	**III**	**06 15 48 54.4–.79**	**52.17N–.03**	**142.29E–.03**	**10–4**	**4.9s,4.9b**	**764**	**1-151**
SKHL	III	06 15 48 50.5–1.2	52.20N	142.31E	10	5.8s,4.8b		¶16196734
BJI	III	06 15 48 50.0	52.28N	142.67E	10	5.0b,4.9s		
ISCJB	III	06 15 48 51.6–.51	52.16N–.02	142.30E–.03	3–3	4.8s,4.7b		
MOS	III	06 15 48 52.3–.98	52.15N	142.29E	8	4.9b,4.9s		
IDC	III	06 15 48 53.0–.42	52.22N	142.30E	0	4.6,4.5		
NEIC	III	06 15 48 54.6–.12	52.20N	142.21E	10	4.9b,4.5		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.4km az=148.6.
MOS Error ellipse: s-maj=6.9km s-min=3.8km az=95.6.
IDC Error ellipse: s-maj=10.8km s-min=8.7km az=144.0.
NEIC Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=153.0.

SKHL	**III**	**06 18 57 59.9–1.0**	**52.20N**	**142.15E**	**10**	**3.8b**		**¶600847845**
ISC	**III**	**07 18 56 02.0–1.1**	**51.87N–.03**	**142.82E–.04**	**7–6**	**4.0b,2.9s**	**74**	**1-88**
IDC	III	07 18 56 00.7–.58	51.89N	143.10E	0	4.2L,4.0		¶16409222
MOS	III	07 18 56 01.7–1.1	51.84N	143.04E	10	4.1b,4.0		
SKHL	III	07 18 56 00.9–.50	51.87N	142.62E	10	4.6b,3.8s		
ISCJB	III	07 18 56 02.0–.80	51.83N–.03	143.10E–.07	20–6	4.0b,3.1s		
NEIC	III	07 18 56 05.8–2.3	51.82N	143.13E	34–18	4.0b,3.1s		

ISC Event type fe.
IDC Error ellipse: s-maj=16.1km s-min=11.0km az=130.0.
MOS Event type fe. Error ellipse: s-maj=11.7km s-min=6.0km az=82.2. Felt (III-IV) at Nogliki. Moment Tensor Solution.
SKHL Event type fe. Felt (III-IV) at Nogliki.
ISCJB Event type fe. Error ellipse: s-maj=7.0km s-min=4.6km az=4.0.
NEIC Event type fe. Error ellipse: s-maj=10.0km s-min=6.8km az=120.0. Felt [IV] at Nogliki.

SKHL	**III**	**08 05 30 01.0–.80**	**52.03N**	**142.11E**	**10**	**3.7b**	**¶600847849**
SKHL	**III**	**09 10 14 45.1–.60**	**52.44N**	**142.97E**	**10**	**4.1b**	**¶600847851**
SKHL	**III**	**13 10 04 44.7–.10**	**50.56N**	**143.59E**	**10**	**3.9b**	**¶600847857**
SKHL	**III**	**13 16 55 07.7–.20**	**53.17N**	**142.96E**	**10**	**4.1b**	**¶600847858**
SKHL	**III**	**15 05 51 33.4–.60**	**48.65N**	**142.12E**	**10**	**3.9b**	**¶600847860**
SKHL	**III**	**15 21 12 22.5–1.9**	**51.71N**	**142.90E**	**10**	**3.6b**	**¶600847861**
SKHL	**III**	**16 19 00 16.8–.20**	**47.42N**	**143.20E**	**10**	**3.9b**	**¶600847865**
SKHL	**III**	**23 05 08 06.0–1.2**	**48.52N**	**142.17E**	**10**	**3.9b**	**¶600847973**
SKHL	**III**	**23 07 38 12.8–1.3**	**52.16N**	**142.16E**	**10**	**4.0b**	**¶600847974**
SKHL	**III**	**24 04 24 40.1–.90**	**48.86N**	**142.45E**	**10**	**4.5b**	**¶600847975**
SKHL	**IV**	**03 22 07 12.5–.70**	**54.16N**	**141.92E**	**10**	**4.2b**	**¶600972801**
SKHL	**IV**	**04 18 26 14.0–.70**	**52.05N**	**142.63E**	**10**	**4.3b**	**¶600972814**
SKHL	**IV**	**13 03 10 37.4–.80**	**51.95N**	**141.78E**	**10**	**3.8b**	**¶600972944**
SKHL	**IV**	**20 07 46 24.9–1.0**	**48.74N**	**141.97E**	**10**	**4.0b**	**¶600973078**
SKHL	**IV**	**22 19 32 50.5–.50**	**48.52N**	**141.76E**	**10**	**3.5b**	**¶600973110**
SKHL	**IV**	**25 06 43 18.6–.20**	**54.07N**	**142.28E**	**10**	**4.7b**	**¶600973152**
ISC	**V**	**14 11 26 46.1–.43**	**46.12N–.04**	**143.00E–.04**	**346–4**	**4.3b**	**357** **1-152**
NIED	V	14 11 26 00	46.00N	143.10E	400	4.4W	¶16512062
ISCJB	V	14 11 26 45.8–.15	46.15N–.03	142.99E–.03	348–2	4.2b	
MOS	V	14 11 26 45.6–.99	46.20N	142.94E	347	4.2b	
NEIC	V	14 11 26 46.2–.37	46.26N	142.93E	336–4	4.3b	
JMA	V	14 11 26 46.8–.30	45.97N	143.07E	350–3	4.6	
IDC	V	14 11 26 46.7–1.0	46.25N	142.96E	344–10	4.6,3.9	
SKHL	V	14 11 26 47.5–.50	46.10N	143.10E	341–28	5.8,5.3	

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s31.00000°,δ40.00000°,λ110.00000°. NP2:ϕ_s185.00000°,δ53.00000°,λ74.00000°. $M_0$3.93000×10^{15}
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.3km az=170.7.
MOS Error ellipse: s-maj=7.6km s-min=4.7km az=96.4.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=3.4km az=167.0.
JMA Error ellipse: s-maj=3.3km s-min=3.1km az=-1.0.
IDC Error ellipse: s-maj=9.5km s-min=7.6km az=153.0.

ISC	**V**	**26 07 33 26.4–.66**	**53.64N–.06**	**142.07E–.03**	**10**	**3.7b**	**27**	**1-77**
SKHL	V	26 07 33 23.1–1.0	53.90N	141.90E	10	4.6b,3.1s		¶17204488
MOS	V	26 07 33 23.6–1.7	53.56N	142.06E	10	4.1b,3.1s		
IDC	V	26 07 33 28.4–5.1	53.57N	141.95E	26–36	3.6,3.6		

ISC Event type ke.
MOS Error ellipse: s-maj=24.1km s-min=17.5km az=71.9.
IDC Error ellipse: s-maj=27.5km s-min=20.5km az=136.0.

ISC	**VI**	**11 07 19 39.2–1.3**	**51.72N–.03**	**142.84E–.05**	**5–9**	**3.6b**	**30**	**1-80**
SKHL	VI	11 07 19 36.3–.70	51.79N	142.84E	10	4.3s,4.2b		¶17205762
IDC	VI	11 07 19 39.9–.94	51.62N	142.79E	0	3.8,3.6		
MOS	VI	11 07 19 39.8–2.4	51.78N	142.88E	12	4.1b,3.6		

ISC Event type ke.
SKHL Event type fe. Felt (II) at Nysh.
IDC Error ellipse: s-maj=25.1km s-min=20.1km az=158.0.
MOS Event type fe. Error ellipse: s-maj=21.9km s-min=8.8km az=87.2. Felt (II) at Nysh. Moment Tensor Solution.

ISC	**VI**	**14 15 26 10.0–.99**	**46.95N–.03**	**142.22E–.04**	**12**		**16**	**0-9**
JMA	VI	14 15 26 07.4–.40	47.25N	142.27E	18	3.4		¶600640361
SKHL	VI	14 15 26 08.9–.30	46.99N	142.14E	10	4.5b		
ISCJB	VI	14 15 26 09.2–.61	46.99N–.03	142.15E–.05	12	4.5b		
MOS	VI	14 15 26 09.0–2.3	47.01N	142.14E	10	4.1b		

ISC Event type ke.
JMA Error ellipse: s-maj=3.3km s-min=4.5km az=-1.0.
SKHL Event type fe. Felt (IV) at Pyatirech'ye, Chaplanovo, (III) at Kholmsk.
ISCJB Event type fe. Error ellipse: s-maj=5.4km s-min=4.2km az=162.8.
MOS Event type fe. Error ellipse: s-maj=57.2km s-min=32.2km az=100.8. Felt (IV) at Pyatirech'e, Chaplanovo; (III) at Holmsk. Moment Tensor Solution.

ISC	**VI**	**15 22 38 50.1–.69**	**53.89N–.05**	**143.25E–.05**	**11**	**3.6b,2.7s**	**27**	**0-62**
ISCJB	VI	15 22 38 47.4–.56	53.70N–.06	143.23E–.08	11	3.7b,2.8s		¶17206205
IDC	VI	15 22 38 49.7–1.7	54.14N	143.09E	0	3.8,3.6		
MOS	VI	15 22 38 50.0–3.0	53.80N	143.36E	29	4.1b,3.6		
SKHL	VI	15 22 38 51.2–.70	53.27N	143.28E	10–1	4.6b,3.4s		

ISC Event type ke.
ISCJB Event type fe. Error ellipse: s-maj=10.0km s-min=4.6km az=149.1.
IDC Error ellipse: s-maj=46.9km s-min=19.7km az=164.0.
MOS Event type fe. Error ellipse: s-maj=23.8km s-min=13.2km az=76.5. Felt (II) at Oha, Nyvrovo. Moment Tensor Solution.
SKHL Event type fe. Felt (II) at Okha, Nyvrovo.

(663) Sea of Okhotsk.

SKHL	**II**	**06 00 27 48.3–.70**	**48.33N**	**147.85E**	**356–2**	**4.7s,4.3b**		**¶600774598**
ISC	**II**	**08 16 10 06.6–.37**	**53.10N–.04**	**153.46E–.04**	**509–3**	**4.5b**	**399**	**2-148**
BJI	II	08 16 10 01.5	53.11N	154.14E	504	4.9b,4.8b		¶16012716
KRSC	II	08 16 10 03.1–1.2	52.86N	153.92E	548–20	4.9L,4.8b		
ISCJB	II	08 16 10 05.9–.17	53.15N–.03	153.42E–.05	510–3	4.4b,4.8b		
MOS	II	08 16 10 05.6–1.1	53.00N	153.78E	533	4.7b,4.8b		
NEIC	II	08 16 10 06.6–.19	53.13N	153.41E	508	4.6b,4.8b		
IDC	II	08 16 10 07.8–.52	53.18N	153.35E	518–5	4.7,3.9		

ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.3km az=43.2.
MOS Error ellipse: s-maj=7.5km s-min=5.3km az=97.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=3.8km az=141.0.
IDC Error ellipse: s-maj=8.8km s-min=6.1km az=151.0.

ISC	**III**	**17 06 53 16.1–.59**	**46.90N–.04**	**145.26E–.04**	**31–4**	**4.0b**	**67**	**2-82**
MOS	III	17 06 53 13.4–1.5	47.00N	145.37E	24	4.1b		¶16461883
ISCJB	III	17 06 53 14.3–1.5	46.88N–.03	145.27E–.05	33–12	3.9b		
JMA	III	17 06 53 15.0–.40	46.58N	145.11E	0	4.2		
SKHL	III	17 06 53 15.7–.70	46.92N	145.24E	45–4	4.7b		
IDC	III	17 06 53 18.1–1.2	47.20N	145.21E	35–4	3.9,3.9		

ISC Event type ke.
MOS Error ellipse: s-maj=17.2km s-min=10.4km az=100.2.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=4.3km az=170.7.
JMA Error ellipse: s-maj=3.3km s-min=2.3km az=-1.0.
IDC Error ellipse: s-maj=31.4km s-min=14.0km az=172.0.

ISC	**IV**	**02 13 04 35.0–.55**	**47.07N–.05**	**144.19E–.05**	**35**	**3.7b**	**47**	**1-153**
IDC	IV	02 13 04 30.8–.75	47.35N	144.10E	0	3.9,3.7		¶17199526
ISCJB	IV	02 13 04 33.5–.38	47.12N–.04	144.23E–.07	33	3.6b,3.7		
MOS	IV	02 13 04 34.7–1.9	47.09N	144.18E	49	4.2b,3.7		
SKHL	IV	02 13 04 34.3–.40	47.18N	144.26E	44–4	4.2b,3.7		

ISC Event type ke.
IDC Error ellipse: s-maj=21.3km s-min=19.5km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=7.5km s-min=4.5km az=142.3.
MOS Error ellipse: s-maj=19.6km s-min=9.2km az=107.3.

ISC	**V**	**08 04 05 34.0–.65**	**53.35N–.09**	**153.72E–.07**	**491**	**3.2b**	**66**	**2-79**
MOS	V	08 04 05 33.8–.74	53.33N	153.66E	512	3.8b		¶16500476
ISCJB	V	08 04 05 34.1–.39	53.48N–.07	153.48E–.08	491	3.2b		
IDC	V	08 04 05 34.7–.70	53.37N	153.50E	506–8	3.7,3.0		
KRSC	V	08 04 05 35.5–1.8	53.19N	154.22E	503–25	4.7L,3.0		

ISC Event type se.
MOS Error ellipse: s-maj=16.1km s-min=11.8km az=56.4.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.2km az=175.4.
IDC Error ellipse: s-maj=14.7km s-min=12.8km az=159.0.
KRSC Event type se.

ISC	**V**	**09 12 16 04.7–.35**	**46.98N–.04**	**144.69E–.04**	**404–3**	**4.5b**	**846**	**1-112**
NIED	V	09 12 16 00	46.70N	144.70E	460	5.1W		¶16501820
MOS	V	09 12 16 03.7–.95	47.05N	144.62E	404	4.5b		
JMA	V	09 12 16 03.4–.40	46.67N	144.75E	442–4	5.0		
NEIC	V	09 12 16 04.6–.39	47.13N	144.57E	394–4	4.5b		
SKHL	V	09 12 16 04.5–.80	46.90N	144.70E	400–8	5.6,5.6		
ISCJB	V	09 12 16 04.0–.14	47.00N–.02	144.65E–.02	407–1	4.4b,5.6		
IDC	V	09 12 16 04.5–.84	47.07N	144.62E	400–9	4.9,4.1		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s57.00000°,δ75.00000°,λ-171.00000°. NP2:ϕ_s324.00000°,δ81.00000°,λ-15.00000°. $M_0$5.33000×10^{16}
MOS Error ellipse: s-maj=6.4km s-min=4.5km az=97.0.
JMA Error ellipse: s-maj=4.4km s-min=3.8km az=-1.0.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=2.6km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=3.3km s-min=2.2km az=157.4.
IDC Error ellipse: s-maj=9.2km s-min=7.0km az=136.0.

ISC	**V**	**25 10 02 52.4–.27**	**49.10N–.03**	**147.61E–.03**	**568–2**	**5.1b**	**1952**	**4-152**
NIED	V	25 10 02 00	48.70N	148.40E	620	5.3W		¶602608607
SKHL	V	25 10 02 49.6–1.2	49.12N	148.34E	557–5	5.9s,5.9		
JMA	V	25 10 02 49.3–.30	48.69N	148.40E	585	5.4,5.9		
ISCJB	V	25 10 02 51.1–.15	49.18N–.02	147.53E–.02	559–2	5.1b,5.9		
MOS	V	25 10 02 51.3–.78	49.14N	147.55E	563	5.3b,5.9		
BJI	V	25 10 02 51.2	49.09N	147.49E	557	5.2b,4.8b		
GCMT	V	25 10 02 52.4–.30	49.18N	147.52E	569–2	5.3W,4.8b		
NEIC	V	25 10 02 52.4–.21	49.16N	147.48E	562–2	5.1b,4.8b		
IDC	V	25 10 02 52.9–.42	49.14N	147.52E	570–4	5.6,4.7		

ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s302.00000°,δ45.00000°,λ-125.00000°. NP2:ϕ_s167.00000°,δ55.00000°,λ-60.00000°. $M_0$8.84000×10^{16}
JMA Event type fe. Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0.
ISCJB Event type fe. Error ellipse: s-maj=2.8km s-min=1.7km az=160.1.
MOS Error ellipse: s-maj=6.1km s-min=3.8km az=97.1.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. Moment Tensor Solution. s78,c118;Duration: 1§1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.47±.03 $M_{\theta\theta}$0.58±.04; $M_{\phi\phi}$-0.11±.04; $M_{r\theta}$-0.76±.04; $M_{\theta\phi}$-0.65±.04; $M_{\phi r}$-0.17±.04; Best double couple: NP1:ϕ_s87.00000°,δ75.00000°,λ-127.00000°. NP2:ϕ_s338.00000°,δ40.00000°,λ-24.00000°. Principal axes: T 1.1860,Plg21.0000°,Azm204.0000° ; N -0.0890,Plg36.0000°,Azm98.0000°; P -1.0970,Plg47.0000°,Azm318.0000° $M_0$1.14100×10^{17}
NEIC Event type se. Error ellipse: s-maj=2.8km s-min=1.6km az=150.0.
IDC Error ellipse: s-maj=5.8km s-min=4.8km az=151.0.

ISC	**V**	**28 13 33 04.7–.45**	**51.63N–.06**	**151.38E–.05**	**472**	**3.5b**	**162**	**3-77**
KRSC	V	28 13 33 03.1–1.5	51.28N	151.98E	548–39	4.5L		¶16551334
ISCJB	V	28 13 33 05.0–.23	51.69N–.04	151.10E–.05	472	3.5b		
MOS	V	28 13 33 04.6–.91	51.35N	151.82E	537	4.0b		
SKHL	V	28 13 33 05.3–.50	51.56N	151.39E	513–6	4.7b,4.5s		
IDC	V	28 13 33 06.3–.80	51.66N	151.41E	499–10	3.9,3.1		

ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.4km az=149.0.
MOS Error ellipse: s-maj=12.0km s-min=6.0km az=61.5.
IDC Error ellipse: s-maj=12.6km s-min=9.1km az=139.0.

ISC	**VI**	**05 06 49 20.6–.77**	**53.5N–.10**	**153.89E–.09**	**480**	**3.1b**	**40**	**2-79**
ISCJB	VI	05 06 49 20.3–.46	53.55N–.09	153.60E–.09	480	3.0b		¶16558270
MOS	VI	05 06 49 20.5–.80	53.48N	153.84E	502	3.8b		
IDC	VI	05 06 49 21.5–1.3	53.48N	153.82E	498–19	3.4,2.7		
KRSC	VI	05 06 49 22.0–2.4	53.36N	154.27E	494–29	4.2L,2.7		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.4km s-min=7.5km az=0.9.
MOS Error ellipse: s-maj=20.5km s-min=14.8km az=63.7.
IDC Error ellipse: s-maj=21.0km s-min=14.6km az=125.0.
KRSC Event type se.

ISC VI 08 00 28 26.7–.49 48.01N–.04 146.50E–.05 483–5 4.1b 466 3-153
NIED VI 08 00 28 00 47.60N 146.70E 560 4.6W **¶16580617**
JMA VI 08 00 28 26.1–.50 47.62N 146.72E 522 4.0
SKHL VI 08 00 28 26.7–.50 47.97N 146.67E 504–4 5.1b,4.9s
MOS VI 08 00 28 26.7–.98 48.16N 146.45E 489 4.1b,4.9s
ISCJB VI 08 00 28 26.2–.19 48.08N–.03 146.46E–.03 483–2 4.1b,4.9s
IDC VI 08 00 28 27.6–1.1 48.15N 146.43E 487–13 4.5,3.8
NEIC VI 08 00 28 27.5–.38 48.18N 146.39E 484–5 4.2b,3.8
ISC Event type se.
NIED Moment Tensor Solution. Best double couple: NP1:ϕ_s336.00000°,δ45.00000°,λ43.00000°. NP2:ϕ_s212.00000°,δ61.00000°,λ126.00000°. M_o8.49000×10^{15}
JMA Error ellipse: s-maj=6.7km s-min=6.0km az=-1.0.
MOS Error ellipse: s-maj=9.8km s-min=6.0km az=102.9.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.5km az=169.3.
IDC Error ellipse: s-maj=9.1km s-min=7.5km az=144.0.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=4.8km az=156.0.
KRSC VI 08 18 05 10.8–1.8 53.01N 154.61E 470–22 4.1L
MOS VI 08 18 05 10.8–.95 53.01N 154.61E 470 4.2b **¶16580428**
KRSC Event type se.
MOS Error ellipse: s-maj=32.0km s-min=23.6km az=162.2.
ISC VI 16 05 07 41.3–.69 46.76N–.08 144.8E–.10 450 3.2b 29 2-82
ISCJB VI 16 05 07 39.9–.43 46.81N–.05 144.8E–.10 450 3.2b **¶17206266**
JMA VI 16 05 07 41.9–.40 46.75N 144.80E 442 3.4
IDC VI 16 05 07 42.1–1.3 47.27N 144.57E 420–19 3.8,3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.1km s-min=5.5km az=16.4.
JMA Error ellipse: s-maj=5.6km s-min=6.1km az=-1.0.
IDC Error ellipse: s-maj=31.2km s-min=17.3km az=156.0.
ISC VI 18 13 35 31.8–.60 51.22N–.10 150.32E–.07 518 3.7b 60 4-76
KRSC VI 18 13 35 27.9–2.0 50.77N 150.91E 596–37 4.8L **¶16632945**
ISCJB VI 18 13 35 31.7–.37 51.37N–.08 150.17E–.07 518 3.7b
MOS VI 18 13 35 32.3–.61 51.34N 150.60E 547 4.0b
IDC VI 18 13 35 33.2–1.1 51.33N 150.53E 542–15 4.1,3.3
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=4.9km az=161.6.
MOS Error ellipse: s-maj=15.2km s-min=9.5km az=56.8.
IDC Error ellipse: s-maj=13.8km s-min=9.5km az=126.0.

(664) Southeastern China.

BJI I 01 09 07 41.3 33.57N 119.84E 18 3.6L
¶17539269
ISC I 15 04 02 02.1–.75 35.58N–.04 110.87E–.05 10 4.0b 37 2-64
IDC I 15 04 01 57.7–1.4 35.54N 111.33E 0 4.0,3.8 **¶16031145**
ISCJB I 15 04 01 58.2–.49 35.43N–.04 110.99E–.06 10 3.8b,3.8
NEIC I 15 04 02 00.5–.49 35.45N 111.01E 10 4.0L,4.0b
BJI I 15 04 02 03.6 35.60N 110.76E 10 4.0L,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=53.9km s-min=21.1km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.3km az=35.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=7.0km az=135.0.
ISC I 19 04 07 44.3–.31 30.65N–.03 117.14E–.03 10 4.7b,3.8s 220 2-146
ISCJB I 19 04 07 42.2–.17 30.64N–.02 117.12E–.02 10 4.6b,3.8s **¶15938055**
IDC I 19 04 07 43.1–.55 30.72N 116.96E 0 4.4,4.4b
BJI I 19 04 07 43.3 30.66N 117.10E 6 4.9b,4.8L
NEIC I 19 04 07 43.6 30.65N 117.10E 10 4.9b,4.8L
MOS I 19 04 07 45.9–.79 30.71N 117.00E 33 4.6b,4.8L
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.9km az=162.5.
IDC Error ellipse: s-maj=13.6km s-min=12.7km az=20.0.
NEIC Event type fe. Felt [III] at Hefei. Also felt at Anqing, Chizhou, Liyang, Ma'anshan, Nanjing and Wuhu. After BJI.
MOS Error ellipse: s-maj=12.0km s-min=6.3km az=115.4.
BJI I 21 15 56 09.6 32.88N 120.43E 11 3.6L
¶15967410
ISC III 07 16 19 45.6–.45 34.04N–.04 114.70E–.04 10 4.1b,3.1s 58 3-87
IDC III 07 16 19 43.3–.64 33.91N 114.65E 0 4.1,4.0 **¶17193423**
ISCJB III 07 16 19 43.5–.36 34.01N–.04 114.66E–.04 10 4.0b,3.2s
BJI III 07 16 19 43.6 33.99N 114.63E 10 4.6L,4.4b
ISC Event type ke.
IDC Error ellipse: s-maj=21.0km s-min=14.0km az=54.0.
ISCJB Event type ke. Error ellipse: s-maj=6.1km s-min=5.3km az=179.4.
BJI IV 20 16 15 55.6 36.08N 112.94E 5 3.7b,3.6L
¶17540116
IDC IV 28 10 01 35.1–1.3 26.45N 110.09E 0 4.2s,4.2
¶17202294
IDC Error ellipse: s-maj=80.1km s-min=22.0km az=68.0.
BJI V 20 10 32 31.8 36.21N 118.95E 6 3.8L
¶17542322
BJI VI 17 02 22 41.2 30.92N 116.92E 6 4.4b,4.3b
¶17536403

(665) Yellow Sea.

ISC I 12 01 19 50.1–.34 33.22N–.04 123.98E–.03 10 4.8b,4.1s 206 3-155
ISCJB I 12 01 19 48.2–.21 33.19N–.02 124.01E–.03 10 4.7b,4.1s **¶15934395**
IDC I 12 01 19 48.5–.56 33.28N 123.95E 0 4.3,4.2
BJI I 12 01 19 49.5 33.33N 123.90E 10 5.4L,4.8b
NEIC I 12 01 19 50.0–.24 33.29N 123.97E 10 4.9b,4.8b
MOS I 12 01 19 51.7–1.0 33.19N 124.00E 34 4.8b,4.0s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=3.1km az=136.0.
IDC Error ellipse: s-maj=13.4km s-min=11.8km az=26.0.
NEIC Event type fe. Error ellipse: s-maj=5.4km s-min=4.5km az=122.0. Felt [II] at Shanghai, China. Also felt at Ningbo, Suzhou and Wuxi.
MOS Error ellipse: s-maj=10.0km s-min=5.9km az=105.7.
ISC V 24 11 29 23.5–1.2 34.3N–.10 123.8E–.10 10 3.8b 8 5-73
ISCJB V 24 11 29 21.9–1.4 34.4N–.20 123.9E–.10 10 3.7b **¶17204377**
IDC V 24 11 29 21.2–1.6 34.18N 123.91E 0 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.4km s-min=14.4km az=7.7.
IDC Error ellipse: s-maj=35.3km s-min=18.0km az=172.0.

SEISMIC REGION 42.
Northeastern Asia, Northern Alaska to Greenland.

(670) Near north coast of eastern Siberia.

MOS I 12 04 16 07.6–2.8 70.43N 142.25E 4 4.3b
¶17216298
MOS Error ellipse: s-maj=51.4km s-min=17.3km az=92.6.
YARS I 19 09 30 18.8–4.9 70.7N–.20 142.5E–.30 10
¶601989618
YARS I 20 06 49 29.6–3.3 70.8N–.10 140.4E–.20 10
¶601989685
YARS I 27 15 46 44.0–.30 71.30N–.03 130.66E–.09 10
¶601990180
ISC II 18 00 26 55.3–.54 71.26N–.08 130.11E–.05 10 3.7b 31 1-91
IDC II 18 00 26 53.0–.86 71.17N 130.35E 0 3.9,3.7 **¶17192452**
ISCJB II 18 00 26 53.3–.42 71.17N–.06 130.4E–.10 10 3.7b,3.7
YARS II 18 00 26 54.3–.80 71.1N–.10 130.3E–.20 10 3.7b,3.7
MOS II 18 00 26 54.1–1.6 71.30N 130.22E 15 4.1b,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=29.1km s-min=17.3km az=146.0.
ISCJB Event type ke. Error ellipse: s-maj=9.2km s-min=5.7km az=15.2.
MOS Error ellipse: s-maj=30.6km s-min=15.1km az=83.7.

(671) Eastern Siberia.

ISC I 01 01 34 01.1–.81 63.92N–.09 159.76E–.06 10 3.6b 33 2-86
IDC I 01 01 34 00.4–.84 64.36N 159.37E 0 4.7L,3.9 **¶16394541**
MOS I 01 01 34 00.0–1.3 64.03N 159.96E 10 4.1b,3.9
NERS I 01 01 34 07.2 63.67N 159.47E 33 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=43.6km s-min=13.7km az=153.0.
MOS Error ellipse: s-maj=48.9km s-min=17.6km az=59.9.
NERS Event type se.
YARS I 16 13 07 36.0–.10 67.67N–.01 141.43E–.02 10
¶601989427
YARS I 17 08 18 11.5–.30 66.20N–.01 130.36E–.05 10
¶601989488
YARS I 18 06 48 57.8–.30 62.64N–.03 145.02E–.03 10
¶601989548
KRSC I 18 08 35 25.4–.54 60.64N 166.74E 11–2 3.8L
¶17190469
KRSC Event type se.
YARS I 20 19 14 27.6–.60 65.47N–.03 136.57E–.08 10
¶601989724
ISC I 21 13 29 38.9–.71 65.10N–.03 139.75E–.03 10 33 2-11
NERS I 21 13 29 40.9 65.17N 139.83E 10 **¶601254451**
YARS I 21 13 29 41.2–.20 65.13N–.01 139.98E–.03 10
ISC Event type se.
NERS Event type se.
ISC I 23 01 46 58.8–.72 60.73N–.07 165.56E–.06 15 3.6b 20 0-65
MOS I 23 01 46 55.7–.98 60.82N 165.51E 5 4.0b **¶17190772**
KRSC I 23 01 46 55.3–.67 60.85N 165.51E 4–5 4.2L
IDC I 23 01 46 55.9–1.4 60.50N 165.62E 0 4.6L,3.7
ISCJB I 23 01 46 57.3–.53 60.85N–.05 165.6E–.10 15 3.6b,3.7
ISC Event type se.
KRSC Event type se.
ISCJB Event type se.
ISC I 28 11 46 47.6–.72 65.41N–.03 139.18E–.03 10 28 2-12
YARS I 28 11 46 49.9–.20 65.45N–.01 139.17E–.01 10 **¶601254643**
NERS I 28 11 46 49.8 65.35N 139.12E 33
ISC Event type se.
NERS Event type se.
KRSC I 28 22 15 19.4–1.1 60.97N 167.51E 17–7 4.0L
¶17191219
KRSC Event type se.
KRSC II 04 17 18 50.3–.99 61.77N 171.80E 6–5 4.1L
¶17191682
KRSC Event type se.
KRSC II 08 12 23 16.8–1.0 60.63N 166.93E 4–4 3.8L
¶16017963
KRSC Event type se.
ISC II 19 16 59 03.1–1.1 60.6N–.20 166.42E–.09 24 3.5b 11 7-88
IDC II 19 16 58 59.5–.96 60.48N 166.52E 0 4.7L,3.6 **¶17192542**
ISCJB II 19 16 59 01.4–.83 60.7N–.20 166.3E–.10 24 3.3b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 26 14 08 56.7–2.1 66.37N–.07 154.5E–.10 10 13 4-11
YARS II 26 14 08 47.5–.40 66.0N–.10 155.0E–.30 10 **¶601255014**
NERS II 26 14 09 18.8 66.10N 152.67E 33
ISC Event type se.
NERS Event type se.
ISC III 03 03 06 37.4–.46 63.25N–.04 150.95E–.03 10 3.8b 57 1-147
ISCJB III 03 03 06 35.5–.34 63.27N–.03 150.94E–.06 10 3.8b **¶16461104**
IDC III 03 03 06 35.6–.58 63.29N 150.87E 0 4.3L,4.0
MOS III 03 03 06 36.8–1.4 63.38N 150.95E 18 4.0b,4.0
NERS III 03 03 06 38.8 63.26N 150.90E 22 4.0b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=3.4km az=38.8.
IDC Error ellipse: s-maj=13.3km s-min=8.1km az=34.0.
MOS Error ellipse: s-maj=21.9km s-min=10.0km az=90.0.
NERS Event type se.
ISC III 04 08 53 15.7–.38 59.83N–.04 146.08E–.03 10 4.1b 105 2-150
ISCJB III 04 08 53 13.6–.25 59.80N–.03 146.16E–.05 10 4.0b **¶16310107**
MOS III 04 08 53 14.4–.82 59.76N 145.92E 14 4.5b
IDC III 04 08 53 14.0–.51 59.78N 146.12E 0 4.2,4.0
NERS III 04 08 53 15.3 59.80N 146.20E 0 4.2,4.0
NEIC III 04 08 53 16.2–2.4 59.79N 146.04E 13–15 4.2b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.7km az=141.4.
MOS Error ellipse: s-maj=13.1km s-min=7.0km az=83.8.
IDC Error ellipse: s-maj=13.4km s-min=7.6km az=5.0.
NERS Event type se.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=4.6km az=180.0.
ISC III 17 23 50 05.3–.41 60.84N–.04 165.70E–.05 15 4.2b 103 0-84
KRSC III 17 23 50 03.4–.88 60.75N 166.20E 41–13 5.3L **¶16461902**
ISCJB III 17 23 50 03.8–.23 60.86N–.03 165.69E–.06 15 4.2b,3.3s
IDC III 17 23 50 03.1–.81 60.96N 165.74E 0 5.3L,4.2
BJI III 17 23 50 04.3 61.36N 165.54E 19 4.9b,4.5b
MOS III 17 23 50 06.1–.92 60.85N 165.64E 34 4.5b,4.5b
NEIC III 17 23 50 08.6–.93 60.93N 165.59E 37–8 4.5b,4.5b
ISC Event type se.
KRSC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.4km az=39.1.
IDC Error ellipse: s-maj=25.4km s-min=9.8km az=170.0.
MOS Error ellipse: s-maj=13.0km s-min=6.2km az=83.6.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=4.6km az=172.0.
KRSC V 08 18 53 05.0–.77 60.72N 167.24E 24–4 3.5L
¶16500479
KRSC Event type se.
KRSC V 29 08 38 01.1–.77 60.78N 166.60E 4–2 3.5L
¶16551470
KRSC Event type se.
ISC VI 20 00 12 55.2–.62 60.66N–.04 165.71E–.05 15 3.7b,3.0s 32 0-57
KRSC VI 20 00 12 51.8–.44 60.71N 165.60E 6–3 4.7L,3.0s **¶16638793**
MOS VI 20 00 12 52.1–1.7 60.72N 165.66E 7 3.9b,3.0s
ISCJB VI 20 00 12 53.7–.41 60.70N–.04 165.58E–.08 15 3.8b,3.2s
IDC VI 20 00 12 54.2–1.4 60.84N 165.62E 0 5.1L,3.8
NEIC VI 20 00 12 58.9–.88 60.83N 165.57E 35 4.0b,3.8
ISC Event type fe.
KRSC Event type se. FELT [II-III] at Tilichiki; [II] at Korf.
MOS Event type fe. Error ellipse: s-maj=20.3km s-min=10.6km az=85.6. Felt (II) at Tilichiki, Korf. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=6.0km s-min=5.2km az=146.4.
IDC Error ellipse: s-maj=38.3km s-min=12.7km az=168.0.
NEIC Event type fe. Error ellipse: s-maj=24.1km s-min=8.7km az=169.0. Felt [II] at Korf and Tilichiki.

(675) Beaufort Sea.

OTT IV 22 23 29 02.9–1.2 75.67N 130.36W 18 3.9L
¶601735043
OTT Event type ke. Error ellipse: s-maj=6.7km s-min=8.5km az=-1.0. 306km west from Mould Bay, Nt.

(676) Northern Alaska.

ISC II 01 04 04 43.4–.74 70.23N–.05 143.42W–.04 10 3.7b 62 2-59
ISCJB II 01 04 04 42.1–.46 70.21N–.04 143.10W–.09 10 3.6b **¶15995153**
NEIC II 01 04 04 44.5 70.19N 143.53W 18 3.4L
IDC II 01 04 04 44.1–1.2 70.33N 143.64W 0 3.8,3.8b
PGC II 01 04 04 46.0–9.7 70.30N 143.05W 5 3.0L,3.8b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=4.1km az=161.6.
NEIC Event type se. After AEIC.
IDC Error ellipse: s-maj=29.4km s-min=20.5km az=54.0.
PGC Event type ke. Error ellipse: s-maj=3.3km s-min=0.7km az=-1.0. 198km east of Prudhoe Bay, Ak Northern Alaska.
ISC II 13 21 53 41.1–1.2 67.95N–.06 155.97W–.07 10 37 2-58
ISCJB II 13 21 53 38.9–.81 67.95N–.05 156.2W–.20 10 3.3b **¶16398142**
IDC II 13 21 53 39.1–1.8 68.07N 156.35W 0 3.8,3.4
NEIC II 13 21 53 40.1 67.97N 156.11W 10 3.4L,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=6.7km az=19.0.

IDC Error ellipse: s-maj=69.2km s-min=23.0km az=35.0.
NEIC Event type se. After AEIC.
ISC III 01 01 07 07.5–1.0 68.76N–.04 147.24W–.05 10 39 2-55
NEIC III 01 01 07 07.9 68.71N 147.40W 8 3.0L **¶16400349**
ISCJB III 01 01 07 07.3–.51 68.68N–.03 147.1W–.10 10 3.4b
IDC III 01 01 07 10.8–1.7 68.59N 147.37W 0 3.6,3.3
ISC Event type se.
NEIC Event type se. After AEIC.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=4.8km az=6.7.
IDC Error ellipse: s-maj=29.4km s-min=18.8km az=84.0.
ISC III 10 06 19 00.4–1.6 67.84N–.08 152.69W–.09 10 36 1-35
IDC III 10 06 18 58.9–3.1 67.91N 153.26W 0 3.5,3.3 **¶16442213**
ISCJB III 10 06 18 58.4–.81 67.90N–.05 152.7W–.10 10 3.3b,3.3
NEIC III 10 06 19 01.6 67.70N 152.60W 6 3.2L,3.3
ISC Event type se.
IDC Error ellipse: s-maj=38.4km s-min=26.2km az=114.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=6.4km az=35.8.
NEIC Event type se. After AEIC.
ISC IV 06 23 51 13.2–.75 69.30N–.06 144.41W–.04 14 3.8b 72 2-49
ISCJB IV 06 23 51 13.2–.39 69.21N–.03 144.21W–.08 14 3.7b **¶16413289**
PGC IV 06 23 51 14.0–17 69.52N 144.86W 20 3.5L
IDC IV 06 23 51 15.0–1.4 69.15N 144.75W 0 3.8,3.7b
NEIC IV 06 23 51 16.1 69.15N 144.81W 14 3.3L,3.7b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.8km s-min=3.4km az=142.9.
PGC Event type ke. Error ellipse: s-maj=3.3km s-min=1.2km az=-1.0. 155km Ese of Prudhoe Bay, Ak Northern Alaska.
IDC Error ellipse: s-maj=23.0km s-min=18.5km az=47.0.
NEIC Event type se. After AEIC.
ISC IV 09 21 13 23.5–1.1 69.13N–.06 144.54W–.04 10 35 2-14
ISCJB IV 09 21 13 21.7–.54 69.18N–.04 144.37W–.09 10 **¶16487707**
NEIC IV 09 21 13 24.1 69.15N 144.66W 13 2.8L
PGC IV 09 21 13 25.2–.02 69.10N 144.66W 13 2.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.5km s-min=4.5km az=166.7.
NEIC Event type se. After AEIC.
PGC Event type ke. 191km Ese of Prudhoe Bay, Ak Northern Alaska.
ISC IV 15 00 38 46.6–1.1 68.06N–.05 153.77W–.07 10 44 2-58
ISCJB IV 15 00 38 44.5–.75 68.16N–.05 153.9W–.10 10 3.5b **¶16489761**
IDC IV 15 00 38 45.9–1.8 68.33N 154.02W 0 3.6,3.5b
NEIC IV 15 00 38 50.0 68.02N 153.84W 29 3.1L,3.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=6.8km az=31.0.
IDC Error ellipse: s-maj=34.9km s-min=21.6km az=37.0.
NEIC Event type se. After AEIC.
ISC V 21 08 33 23.1–.57 65.48N–.05 166.86W–.03 15–3 5.0b,4.1s 1046 0-149
BJI V 21 08 33 19.0 65.40N 166.90W 10 5.0b,4.9b **¶16531596**
MOS V 21 08 33 21.8–.97 65.50N 166.71W 16 5.3b,4.2s
NEIC V 21 08 33 21.7 65.36N 166.83W 19 5.2L,5.0b
IDC V 21 08 33 21.2–.45 65.51N 166.70W 0 4.9,4.8
GCMT V 21 08 33 21.7–.20 65.44N 166.90W 12 5.0W,4.8
ISCJB V 21 08 33 21.2–.11 65.55N–.02 166.60W–.03 11 5.0b,4.2s
ISC Event type fe.
NEIC Event type fe. Felt [II] at Nome. Also felt at Wales. After AEIC. Moment Tensor Solution. s72 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.89 $M_{\theta\theta}$1.60 $M_{\phi\phi}$0.30 $M_{r\theta}$-0.65 $M_{\theta\phi}$-0.54 $M_{\phi r}$0.78 Best double couple: NP1:ϕ_s123.00000°,δ59.00000°,λ-77.00000°. NP2:ϕ_s279.00000° ,δ33.00000°,λ-111.00000°. Principal axes: T 1.9900,Plg13.0000°,Azm203.0000° ; N 0.2100,Plg11.0000°,Azm296.0000°; P -2.2000,Plg73.0000°,Azm65.0000° M_o2.10000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c56; s98,c138;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-3.27±.07 $M_{\theta\theta}$2.95±.08; $M_{\phi\phi}$0.31±.06; $M_{r\theta}$-0.32±.26; $M_{\theta\phi}$-1.49±.06; $M_{\phi r}$1.02±.22; Best double couple: NP1:ϕ_s128.00000°,δ52.00000°,λ-72.00000°. NP2:ϕ_s280.00000°,δ41.00000°,λ-111.00000°. Principal axes: T 3.6960,Plg6.0000°,Azm205.0000°; N -0.1600,Plg14.0000°,Azm297.0000° ; P -3.5410,Plg75.0000°,Azm93.0000° M_o3.61800×10^{16}
ISCJB Event type fe.
NEIC V 22 14 49 06.8 65.49N 166.62W 10 3.5L
¶602607412
NEIC Event type se. After AEIC.

(677) Northern Yukon Territory.

ISC I 19 21 45 49.1–.74 66.45N–.04 135.88W–.05 10 3.2b 42 2-42
ISCJB I 19 21 45 47.5–.41 66.47N–.04 135.5W–.10 10 3.1b **¶15940548**
IDC I 19 21 45 49.1–1.0 66.49N 135.94W 0 3.8,3.4
PGC I 19 21 45 51.8–.02 66.47N 135.68W 20 4.0L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.4km s-min=4.1km az=37.8.
IDC Error ellipse: s-maj=15.3km s-min=10.4km az=116.0.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=-1.0. 120km southwest of Fort McPherson, Nt Northern Yukon Territory, Canada.
PGC II 04 11 01 38.7–.01 65.33N 134.22W 5 3.6L
¶16007292
PGC Event type ke. 235km south of Fort McPherson, Nt Northern Yukon Territory, Canada.
ISC IV 13 01 30 30.3–.70 65.25N–.04 138.64W–.04 10 73 1-28
ISCJB IV 13 01 30 29.1–.39 65.21N–.03 138.47W–.07 10 3.2b **¶16424703**
PGC IV 13 01 30 30.8–1.2 65.26N 138.91W 1 3.3L
IDC IV 13 01 30 31.2–.91 65.29N 138.92W 0 3.4,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.4km s-min=2.9km az=40.6.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=-1.0. 136km Nne of Dawson, Yt Northern Yukon Territory, Canada.
IDC Error ellipse: s-maj=14.8km s-min=9.6km az=175.0.
ISC V 15 12 20 57.5–.59 65.17N–.04 133.41W–.04 10 61 3-65
ISCJB V 15 12 20 56.2–.33 65.19N–.04 133.38W–.06 10 3.6b **¶16523218**
IDC V 15 12 20 58.3–.80 65.38N 133.71W 0 3.7,3.7L
PGC V 15 12 20 59.6–.02 65.28N 133.53W 5 3.8L,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.6km s-min=2.6km az=153.0.
IDC Error ellipse: s-maj=11.6km s-min=9.5km az=36.0.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=-1.0. 243km Sse of Fort McPherson, Nt Northern Yukon Territory, Canada.
PGC VI 06 15 42 44.0–.03 65.88N 134.75W 20 3.5L
¶16575893
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.5km az=-1.0. 174km Ssw of Fort McPherson, Nt Northern Yukon Territory, Canada.
PGC VI 12 06 16 40.6–.07 66.90N 135.67W 20 3.3L
¶16873429
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=-1.0. 80km Wsw of Fort McPherson, Nt Northern Yukon Territory, Canada.
ISC VI 17 20 15 07.3–.61 66.33N–.03 134.92W–.04 10 98 2-52
IDC VI 17 20 15 07.5–1.1 66.22N 135.20W 0 3.9,3.8b **¶16645082**
PGC VI 17 20 15 09.9–.03 66.22N 135.16W 15 4.1L,3.9W
ISC Event type ke.
IDC Error ellipse: s-maj=31.5km s-min=11.5km az=2.0.
PGC Event type ke. Error ellipse: s-maj=1.1km s-min=0.4km az=-1.0. 139km Ssw of Fort McPherson, Nt Northern Yukon Territory, Canada.
ISC VI 28 14 41 45.0–.71 65.19N–.04 132.94W–.05 10 36 3-65
ISCJB VI 28 14 41 43.9–.47 65.19N–.04 133.1W–.10 10 3.5b **¶16684588**
PGC VI 28 14 41 46.5 65.23N 133.10W 1 3.9L
IDC VI 28 14 41 47.3–2.4 65.33N 133.18W 18–17 3.7,3.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=6.6km s-min=4.9km az=24.4.
PGC Event type ke. 253km Sse of Fort McPherson, Nt Northern Yukon Territory, Canada.
IDC Error ellipse: s-maj=11.5km s-min=8.5km az=27.0.

(678) Queen Elizabeth Islands.

OTT II 07 15 48 07.2–1.1 80.36N 98.44W 18 3.6L
¶601724213
OTT Event type ke. Error ellipse: s-maj=5.6km s-min=6.0km az=-1.0. 203km northeast from Isachsen, Nu.

(679) Northwest Territories.

ISC III 08 21 57 12.7–.77 62.29N–.05 124.38W–.04 8 62 3-21
ISCJB III 08 21 57 11.4–.29 62.29N–.03 124.42W–.05 8 2.5b **¶16295213**
IDC III 08 21 57 13.2–.83 62.22N 124.44W 0 3.7,3.4
PGC III 08 21 57 14.2–.03 62.33N 124.42W 1 3.9L,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.0km s-min=3.0km az=174.3.
IDC Error ellipse: s-maj=13.8km s-min=7.8km az=163.0.
PGC Event type ke. 176km west of Fort Simpson, Nt Nw Territories - Nunavut, Canada.
PGC III 18 07 14 25.8–.44 69.09N 132.40W 25 3.8L
¶601724307
PGC Event type ke. 97km northeast of Inuvik, Nt Northwest Territories, Canada.
ISC VI 12 16 25 48.7–.52 62.03N–.05 124.28W–.04 5 4.0b 81 3-93
ISCJB VI 12 16 25 46.6–.26 61.97N–.03 124.25W–.05 5 3.7b **¶16593427**
NEIC VI 12 16 25 49.8 61.93N 124.11W 1 4.2b,4.1W
PGC VI 12 16 25 49.8–.04 61.93N 124.11W 1 4.3L,4.1W
IDC VI 12 16 25 50.0–.64 61.89N 124.12W 0 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=4.6km s-min=3.0km az=172.0.
NEIC Event type se. After OTT. Moment Tensor Solution. M_o2.00000×10^{15}
PGC Event type ke. 151km west of Fort Simpson, Nt Nw Territories - Nunavut, Canada.
IDC Error ellipse: s-maj=14.2km s-min=7.9km az=169.0.

(680) Western Kalaallit Nunaat.

ISC II 14 18 41 53.8–.97 71.90N–.04 55.07W–.07 10 18 3-11
ISCJB II 14 18 41 53.1–.71 71.98N–.05 54.7W–.20 10 **¶16026130**
OTT II 14 18 41 56.5–.22 71.95N 54.68W 18 3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.4km s-min=6.3km az=154.4.
OTT Event type ke. Error ellipse: s-maj=1.1km s-min=2.1km az=-1.0. Western Greenland. 527km northeast from Clyde River, Nu.

(681) Baffin Bay.

ISC I 11 22 40 18.1–1.1 74.43N–.06 70.66W–.06 10 12 2-12
OTT I 11 22 40 23.9–.53 74.56N 70.12W 18 3.4L **¶15925879**
ISC Event type ke.
OTT Event type ke. Error ellipse: s-maj=4.4km s-min=5.0km az=-1.0. Baffin Bay Seismic Zone. 323km northeast from Pond Inlet, Nu.
ISC III 21 18 11 05.2–.93 75.32N–.07 72.70W–.05 10 16 4-17
OTT III 21 18 11 19.7–.65 75.22N 72.88W 18 3.0L **¶601724328**
ISC Event type ke.
OTT Event type ke. Error ellipse: s-maj=5.6km s-min=4.5km az=-1.0. Baffin Bay. 250km east from Craig Harbour, Nu Eastern Arctic Background Seismic Zone.
OTT IV 25 22 41 25.5–.41 72.70N 69.56W 18 3.7L
¶601735051
OTT Event type ke. Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. Baffin Bay Seismic Zone. 252km northeast from Clyde River, Nu.
ISC V 28 13 35 53.0–.89 72.60N–.06 67.30W–.07 10 21 2-15
ISCJB V 28 13 35 50.7–.58 72.69N–.05 67.4W–.10 10 **¶16551336**
OTT V 28 13 35 57.1–.40 72.55N 67.08W 18 3.1L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.3km s-min=5.4km az=147.2.
OTT Event type ke. Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. Baffin Bay Seismic Zone. 240km northeast from Clyde River, Nu.
ISC VI 03 19 27 55.7–.33 74.05N–.04 72.99W–.04 10 4.3b,3.4s 156 4-128
ISCJB VI 03 19 27 53.3–.21 74.01N–.03 73.1W–.10 10 4.3b,3.4s **¶16577380**
IDC VI 03 19 27 55.1–.51 74.22N 72.56W 0 4.1,4.0L
OTT VI 03 19 27 55.3–.40 74.23N 72.96W 10 4.9L,4.3W
NEIC VI 03 19 27 56.2 74.23N 72.86W 18 4.9L,4.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=5.1km s-min=3.2km az=137.4.
IDC Error ellipse: s-maj=16.2km s-min=11.6km az=150.0.
OTT Event type ke. Error ellipse: s-maj=2.2km s-min=2.7km az=-1.0. Baffin Bay Seismic Zone. 235km northeast from Pond Inlet, Nu.
NEIC Event type se. After OTT.
ISC VI 07 09 58 47.0–.81 71.18N–.06 67.27W–.06 10 26 1-14
ISCJB VI 07 09 58 44.7–.58 71.09N–.07 67.3W–.10 10 **¶16577418**
OTT VI 07 09 58 49.7–.50 71.15N 67.23W 18 3.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.4km s-min=5.5km az=164.1.
OTT Event type ke. Error ellipse: s-maj=3.3km s-min=3.6km az=-1.0. 91km northeast from Clyde River, Nu Baffin Bay Seismic Zone.
ISC VI 14 07 00 20.8–.93 74.1N–.10 61.58W–.06 10 19 1-11
ISCJB VI 14 07 00 19.2–.72 74.1N–.10 61.8W–.30 10 **¶16596675**
OTT VI 14 07 00 24.2–.23 74.05N 61.12W 18 2.7L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.9km s-min=4.4km az=152.4.
OTT Event type ke. Error ellipse: s-maj=4.4km s-min=3.1km az=-1.0. Eastern Baffin Bay. 475km northeast from Clyde River, Nu Eastern Arctic Background Seismic Zone.

(682) Baffin Island region.

OTT V 10 17 53 05.7–.25 68.04N 67.62W 18 3.6
¶601735078
OTT Event type ke. Error ellipse: s-maj=3.3km s-min=1.7km az=-1.0. 160km west from Qikiqtarjuaq, Nu Baffin Island Seismic Zone, Nt.

SEISMIC REGION 43.
Southeastern and Antarctic Pacific Ocean.

(683) Southeastcentral Pacific Ocean.

ISC IV 19 23 21 25.8–3.0 16.1S–.60 90.8W–.40 10 3.9b 8 15-145
IDC IV 19 23 21 24.9–3.0 15.98S 90.75W 0 4.1,3.9 **¶17201561**
ISC Event type ke.
IDC Error ellipse: s-maj=97.2km s-min=31.6km az=32.0.

(684) Southern East Pacific Rise.

ISC I 13 00 37 33.4–.46 35.1S–.10 105.7W–.10 10 4.8b,3.9s 87 28-167
IDC I 13 00 37 31.9–.50 35.14S 105.70W 0 4.5,4.4 **¶16151207**
ISCJB I 13 00 37 32.4–.40 35.22S–.07 105.6W–.10 10 4.7b,3.9s
NEIC I 13 00 37 33.2–.34 35.28S 105.66W 10 4.8b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=17.2km az=176.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=9.6km az=157.9.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=11.7km az=66.0.
ISC I 26 02 55 08.0–.56 49.9S–.10 114.5W–.10 14 4.4b,4.3s 23 30-168
IDC I 26 02 55 06.3–.65 50.09S 114.34W 0 4.4,4.3 **¶15990759**
NEIC I 26 02 55 07.6–.41 50.07S 114.32W 10 4.6b,4.3
GCMT I 26 02 55 07.6–.30 50.15S 114.14W 17–1 5.0W,4.3
ISC Event type se.
IDC Error ellipse: s-maj=35.9km s-min=18.4km az=152.0.
NEIC Event type se. Error ellipse: s-maj=20.3km s-min=11.6km az=151.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c39; s82,c116; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.40±.17 $M_{\theta\theta}$1.75±.18; $M_{\phi\phi}$-1.35±.16; $M_{r\theta}$0.78±.43; $M_{\theta\phi}$3.83±.16; $M_{\phi r}$1.00±.43; Best double couple: NP1:ϕ_s11.00000°,δ85.00000° ,λ166.00000°. NP2:ϕ_s102.00000°,δ76.00000°,λ5.00000°. Principal axes: T 4.6220,Plg14.0000°,Azm325.0000°; N -0.6400,Plg75.0000°,Azm172.0000° ; P -3.9770,Plg7.0000°,Azm57.0000° M_o4.29900×10^{16}
IDC II 03 11 22 11.1–1.2 34.71S 108.91W 0 4.3,4.1
¶16009344
IDC Error ellipse: s-maj=44.1km s-min=25.7km az=24.0.
IDC II 03 16 15 01.2–3.7 34.68S 109.20W 0 4.0,3.7
¶17191602
IDC Error ellipse: s-maj=195.7km s-min=40.7km az=111.0.
IDC II 10 09 46 11.3–1.5 35.31S 111.85W 0 4.1,4.0
¶16029781
IDC Error ellipse: s-maj=55.6km s-min=39.6km az=173.0.
ISC II 23 14 39 41.1–1.2 24.6S–.30 116.1W–.30 12 3.9b,3.7s 11 17-153
IDC II 23 14 39 39.5–1.2 24.62S 116.06W 0 4.2,3.9 **¶16193676**
NEIC II 23 14 39 41.2–1.0 24.54S 116.01W 10 4.0b,3.9

ISC Event type se.
IDC Error ellipse: s-maj=47.9km s-min=28.3km az=43.0.
NEIC Event type se. Error ellipse: s-maj=41.6km s-min=24.8km az=49.0.
ISC II 26 19 24 21.6–.43 54.5S–.10 119.3W–.10 10 5.1s,4.8b 55 29-164
IDC II 26 19 24 18.6–.62 54.90S 119.27W 0 5.0s,5.0 **¶16172997**
ISCJB II 26 19 24 19.6–.50 54.58S–.09 119.3W–.20 10 5.0s,4.8b
NEIC II 26 19 24 21.0–.44 54.66S 119.31W 10 5.1b,4.8b
GCMT II 26 19 24 21.0–.10 54.57S 119.41W 12 5.4W,4.8b
BJI II 26 19 24 22.9 54.60S 119.30W 10 5.6b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=46.0km s-min=19.9km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=12.3km az=142.1.
NEIC Event type se. Error ellipse: s-maj=21.8km s-min=16.0km az=133.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s95,c164; s116,c208; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.08±.02 $M_{\theta\theta}$0.69±.02; $M_{\phi\phi}$-0.61±.02; $M_{r\theta}$-0.24±.05; $M_{\theta\phi}$1.39±.02; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s103.00000°,δ89.00000° ,λ-9.00000°. NP2:ϕ_s193.00000°,δ81.00000°,λ-179.00000°. Principal axes: T 1.5950,Plg6.0000°,Azm148.0000°; N -0.0770,Plg81.0000°,Azm278.0000° ; P -1.5180,Plg7.0000°,Azm57.0000° $M_0$1.55600×10^{17}
ISC III 06 20 52 01.3–.81 35.5S–.20 105.9W–.40 15 4.0b,3.8s 12 28-153
IDC III 06 20 51 59.7–1.4 35.39S 106.12W 0 4.2,4.0 **¶16298662**
ISC Event type ke.
IDC Error ellipse: s-maj=79.3km s-min=38.7km az=111.0.
ISC III 11 00 14 48.4–.29 53.15S–.10 117.75W–.08 10 5.4s,5.2b 146 29-176
IDC III 11 00 14 46.7–.39 53.23S 117.85W 0 5.3s,5.3 **¶16461280**
ISCJB III 11 00 14 47.0–.29 53.23S–.08 117.8W–.10 10 5.4s,5.0b
MOS III 11 00 14 47.4–1.7 53.27S 117.66W 10 5.5s,5.4b
NEIC III 11 00 14 48.3–.21 53.21S 117.84W 10 5.4s,5.3b
GCMT III 11 00 14 48.3–.10 53.27S 118.18W 16–0 5.7W,5.3b
BJI III 11 00 14 50.4 54.40S 116.80W 10 5.5s,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=13.1km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.8km az=147.2.
MOS Error ellipse: s-maj=26.2km s-min=15.0km az=67.8.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=6.7km az=149.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c229; s130,c269;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.32±.04 $M_{\theta\theta}$-2.41±.05; $M_{\phi\phi}$2.73±.04; $M_{r\theta}$0.65±.13; $M_{\theta\phi}$-3.00±.04; $M_{\phi r}$-0.16±.12; Best double couple: NP1: ϕ_s291.00000°,δ88.00000°,λ-170.00000°. NP2:ϕ_s200.00000°,δ80.00000°,λ-2.00000°. Principal axes: T 4.1490,Plg5.0000°,Azm65.0000°; N -0.2840,Plg80.0000°,Azm303.0000° ; P -3.8690,Plg9.0000°,Azm156.0000° $M_0$4.00900×10^{17}
ISC III 11 10 23 01.9–.62 52.4S–.20 118.0W–.10 10 4.9b 17 34-152
IDC III 11 10 23 00.4–1.4 53.05S 118.02W 0 4.9,4.6 **¶16476139**
ISCJB III 11 10 23 00.1–.55 52.4S–.20 118.0W–.20 10 5.0b,4.6
NEIC III 11 10 23 01.7–.46 52.40S 118.03W 10 5.0b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=180.5km s-min=27.2km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=27.8km s-min=12.6km az=163.6.
NEIC Event type se. Error ellipse: s-maj=25.0km s-min=11.4km az=164.0.
IDC IV 02 14 10 39.7–1.5 23.66S 115.60W 0 4.1,3.8s
¶17199533
IDC Error ellipse: s-maj=56.4km s-min=39.6km az=28.0.
IDC V 08 03 47 42.0–.94 56.54S 124.52W 0 4.3,4.1
GCMT V 08 03 47 44.0–.20 55.69S 124.83W 25–1 5.1W,4.1 **¶16506288**
IDC Error ellipse: s-maj=61.7km s-min=24.1km az=160.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c69; s93,c133; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.65±.18 $M_{\theta\theta}$3.39±.16; $M_{\phi\phi}$-2.73±.15; $M_{r\theta}$-0.11±.33; $M_{\theta\phi}$4.51±.13; $M_{\phi r}$-1.09±.34; Best double couple: NP1:ϕ_s18.00000°,δ86.00000° ,λ-168.00000°. NP2:ϕ_s287.00000°,δ78.00000°,λ-4.00000°. Principal axes: T 5.8370,Plg5.0000°,Azm152.0000°; N -0.5300,Plg78.0000°,Azm36.0000° ; P -5.3010,Plg11.0000°,Azm243.0000° $M_0$5.56900×10^{16}
IDC V 12 21 36 45.8–2.4 23.59S 115.36W 0 4.0,3.7
¶17203507
IDC Error ellipse: s-maj=95.3km s-min=43.6km az=29.0.
ISC V 16 07 21 13.4–.89 34.9S–.20 110.9W–.20 10 4.0b,3.9s 11 24-151
IDC V 16 07 21 11.6–.82 34.74S 110.99W 0 4.2,4.0b **¶16528177**
GCMT V 16 07 21 12.0–.30 35.40S 111.06W 20–1 4.9W,4.0b
ISC Event type ke.
IDC Error ellipse: s-maj=32.1km s-min=26.9km az=152.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s26,c32; s71,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.61±.13 $M_{\theta\theta}$-0.40±.12; $M_{\phi\phi}$1.01±.10; $M_{r\theta}$-0.47±.21; $M_{\theta\phi}$-2.31±.08; $M_{\phi r}$-0.28±.18; Best double couple: NP1:ϕ_s100.00000° ,δ78.00000°,λ-166.00000°. NP2:ϕ_s7.00000°,δ77.00000°,λ-12.00000°. Principal axes: T 2.7220,Plg1.0000°,Azm233.0000°; N -0.4360,Plg72.0000°,Azm141.0000° ; P -2.2840,Plg18.0000°,Azm324.0000° $M_0$2.50300×10^{16}
ISC V 18 06 00 18.2–.84 54.3S–.30 119.9W–.20 10 3.9b,3.8s 13 33-164
IDC V 18 06 00 16.8–.73 54.26S 119.96W 0 4.3,4.1 **¶16545168**
ISC Event type ke.
IDC Error ellipse: s-maj=46.6km s-min=25.7km az=152.0.
ISC V 18 06 26 05.7–.74 54.1S–.20 120.4W–.30 10 4.0b,3.6s 14 30-168
IDC V 18 06 26 04.4–.73 54.08S 120.50W 0 4.4,4.1 **¶16545169**
ISC Event type ke.
IDC Error ellipse: s-maj=45.3km s-min=23.0km az=137.0.
IDC V 30 03 00 13.8–1.3 54.08S 119.12W 0 4.0,3.8s
¶16554080
IDC Error ellipse: s-maj=65.9km s-min=29.0km az=155.0.
ISC VI 01 15 14 29.7–1.5 33.2S–.30 109.6W–.30 10 4.0b 11 41-157
IDC VI 01 15 14 28.6–1.2 33.15S 109.57W 0 4.5,4.1 **¶17204902**
ISC Event type ke.
IDC Error ellipse: s-maj=40.8km s-min=38.1km az=14.0.
ISC VI 02 11 43 36.5–1.1 34.3S–.30 108.7W–.30 10 4.0s,3.7b 11 26-163
IDC VI 02 11 43 35.8–1.0 34.14S 108.69W 0 4.1,3.9 **¶16578064**
GCMT VI 02 11 43 36.0–.40 34.85S 109.06W 15–2 4.8W,3.9
ISC Event type ke.
IDC Error ellipse: s-maj=40.8km s-min=37.6km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s19,c21; s63,c83; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.26±.12 $M_{\theta\theta}$-1.24±.10; $M_{\phi\phi}$1.50±.11; $M_{r\theta}$-0.68±.34; $M_{\theta\phi}$-1.28±.08; $M_{\phi r}$0.17±.30; Best double couple: NP1:ϕ_s115.00000°,δ84.00000° ,λ-159.00000°. NP2:ϕ_s22.00000°,δ69.00000°,λ-7.00000°. Principal axes: T 2.0770,Plg10.0000°,Azm247.0000°; N -0.1350,Plg68.0000°,Azm131.0000° ; P -1.9420,Plg19.0000°,Azm340.0000° $M_0$2.01000×10^{16}
ISC VI 17 03 54 09.1–1.3 23.7S–.30 115.5W–.20 10 4.1b 12 32-153
ISCJB VI 17 03 54 07.8–4.4 23.6S–.60 115.5W–.70 10 4.2s,3.9b **¶16713635**
IDC VI 17 03 54 08.0–1.2 23.61S 115.46W 0 4.2s,4.2
NEIC VI 17 03 54 09.1–.92 23.67S 115.51W 10 4.2b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=128.8km s-min=26.9km az=135.8.
IDC Error ellipse: s-maj=49.7km s-min=29.8km az=28.0.
NEIC Event type se. Error ellipse: s-maj=42.1km s-min=21.3km az=206.0.
ISC VI 20 02 27 15.7–.60 49.9S–.20 115.4W–.20 10 4.3b,3.9s 21 31-168
ISCJB VI 20 02 27 14.3–.71 50.0S–.20 115.2W–.30 10 4.4b,4.0s **¶16720952**
IDC VI 20 02 27 14.5–.63 49.88S 115.42W 0 4.6,4.4b
NEIC VI 20 02 27 15.9–.36 49.95S 115.35W 10 4.4b,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=27.7km s-min=18.5km az=37.5.
IDC Error ellipse: s-maj=32.4km s-min=22.0km az=153.0.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=12.9km az=143.0.
ISC VI 20 04 22 11.2–.62 49.6S–.10 115.4W–.20 10 4.3b 20 31-156
IDC VI 20 04 22 09.7–.82 49.48S 115.59W 0 4.2s,4.2 **¶16720954**
ISCJB VI 20 04 22 10.0–.78 49.5S–.10 115.4W–.30 10 4.3b,4.2s
NEIC VI 20 04 22 10.8–.59 49.43S 115.60W 10 4.3b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=35.3km s-min=20.9km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=29.2km s-min=16.1km az=34.2.
NEIC Event type se. Error ellipse: s-maj=25.7km s-min=16.0km az=125.0.
ISC VI 20 04 25 17.9–.59 49.7S–.20 115.7W–.10 10 4.5b,4.4s 26 29-156
IDC VI 20 04 25 15.7–.93 50.00S 115.52W 0 4.5s,4.5 **¶16645421**
ISCJB VI 20 04 25 16.3–.68 49.8S–.20 115.5W–.20 10 4.5s,4.4b
NEIC VI 20 04 25 17.5–.50 49.73S 115.57W 10 4.7b,4.4b
GCMT VI 20 04 25 17.5–.20 49.77S 115.27W 18–1 5.1W,4.4b
ISC Event type se.
IDC Error ellipse: s-maj=48.7km s-min=27.0km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=28.4km s-min=16.2km az=145.4.
NEIC Event type se. Error ellipse: s-maj=25.2km s-min=15.6km az=149.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c42; s90,c127; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.82±.17 $M_{\theta\theta}$3.75±.18; $M_{\phi\phi}$-2.94±.15; $M_{r\theta}$3.41±.55; $M_{\theta\phi}$3.09±.12; $M_{\phi r}$2.16±.45; Best double couple: NP1:ϕ_s26.00000°,δ86.00000° ,λ145.00000°. NP2:ϕ_s119.00000°,δ55.00000°,λ5.00000°. Principal axes: T 6.9850,Plg27.0000°,Azm337.0000°; N -2.5430,Plg55.0000°,Azm201.0000° ; P -4.4500,Plg21.0000°,Azm78.0000° $M_0$5.71800×10^{16}
ISC VI 27 17 02 33.7–.43 55.79S–.09 123.1W–.10 12 5.1s,4.7b 54 30-179
IDC VI 27 17 02 31.0–.58 55.95S 123.03W 0 5.0s,5.0 **¶16685960**
ISCJB VI 27 17 02 31.1–.46 55.89S–.07 123.4W–.20 12 5.1s,4.8b
NEIC VI 27 17 02 32.9–.35 56.00S 123.20W 10 5.2b,5.1s
GCMT VI 27 17 02 32.9–.10 56.00S 123.02W 14–0 5.4W,5.1s
BJI VI 27 17 02 34.1 56.10S 123.00W 10 5.3b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=18.5km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=10.4km az=174.9.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=11.1km az=138.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c158; s118,c218; Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$0.90±.03; $M_{\phi\phi}$-0.77±.02; $M_{r\theta}$-0.25±.05; $M_{\theta\phi}$1.50±.02; $M_{\phi r}$-0.08±.04; Best double couple: NP1:ϕ_s285.00000°,δ86.00000° ,λ7.00000°. NP2:ϕ_s194.00000°,δ83.00000°,λ176.00000°. Principal axes: T 1.8120,Plg7.0000°,Azm150.0000°; N -0.1510,Plg82.0000°,Azm314.0000° ; P -1.6610,Plg2.0000°,Azm59.0000° $M_0$1.73600×10^{17}
IDC VI 29 19 42 42.2–1.4 24.17S 115.95W 0 4.3,4.0b
¶17207216
IDC Error ellipse: s-maj=84.3km s-min=38.5km az=11.0.

(685) Easter Island region.

ISC I 21 21 48 47.8–.75 26.6S–.20 114.3W–.10 14 4.3b,3.6s 17 14-150
IDC I 21 21 48 42.9–1.2 27.07S 115.20W 0 4.5,4.2b **¶15968942**
NEIC I 21 21 48 49.5–.66 26.20S 113.79W 10 4.2b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=54.5km s-min=25.5km az=52.0.
NEIC Event type se. Error ellipse: s-maj=24.6km s-min=14.0km az=196.0.
IDC II 19 21 00 11.4–3.8 24.67S 113.69W 0 3.9s,3.9
¶16176400
IDC Error ellipse: s-maj=400.7km s-min=70.2km az=99.0.
ISC II 28 23 42 18.7–.49 29.4S–.10 111.99W–.08 16 5.0s,5.0b 242 22-168
IDC II 28 23 42 15.8–.82 29.36S 112.24W 0 5.0s,5.0 **¶16168959**
ISCJB II 28 23 42 17.1–.69 29.4S–.10 112.02W–.09 16 5.1s,4.9b
GCMT II 28 23 42 17.4–.10 29.65S 112.28W 18–0 5.5W,4.9b
NEIC II 28 23 42 17.4–.35 29.47S 112.06W 10 5.1b,4.9b
BJI II 28 23 42 18.8 29.40S 112.10W 10 5.6b,5.5s
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=21.4km az=27.0.
ISCJB Event type se. Error ellipse: s-maj=16.9km s-min=8.7km az=25.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c152; s127,c247; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{\theta\theta}$-2.40±.03; $M_{\phi\phi}$2.56±.04; $M_{r\theta}$-0.68±.08; $M_{\theta\phi}$0.01±.03; $M_{\phi r}$-0.26±.07; Best double couple: NP1:ϕ_s44.00000°,δ83.00000° ,λ-15.00000°. NP2:ϕ_s136.00000°,δ75.00000°,λ-173.00000°. Principal axes: T 2.5850,Plg6.0000°,Azm91.0000°; N 0.0060,Plg73.0000°,Azm200.0000° ; P -2.5930,Plg16.0000°,Azm359.0000° $M_0$2.58900×10^{17}
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=8.9km az=63.0.
ISC III 01 00 53 45.4–.55 29.64S–.06 112.13W–.04 4–3 5.9s,5.5b 1022 17-168
ISCJB III 01 00 53 44.2–.20 29.60S–.03 112.03W–.04 7 5.9s,5.4b **¶16166888**
IDC III 01 00 53 44.5–.39 29.50S 111.99W 0 5.8s,5.8
MOS III 01 00 53 45.4–1.4 29.53S 111.96W 10 5.9s,5.4b
NEIC III 01 00 53 46.0–.00 30.21S 112.11W 15 5.9s,5.4b
NEIC III 01 00 53 46.3–.21 29.70S 111.98W 10 6.0W,6.0s
GCMT III 01 00 53 46.3–.10 29.68S 112.26W 20–0 6.1W,6.0s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.7km az=38.6.
IDC Error ellipse: s-maj=16.6km s-min=13.7km az=178.0.
MOS Error ellipse: s-maj=13.7km s-min=7.0km az=83.8.
NEIC Event type se. Moment Tensor Solution. s13 Moment tensor: Scale 10^{18}Nm; M_{rr}0.06 $M_{\theta\theta}$-1.07 $M_{\phi\phi}$1.01 $M_{r\theta}$-0.54 $M_{\theta\phi}$0.51 $M_{\phi r}$0.52 Best double couple: NP1:ϕ_s148.00000° ,δ88.00000°,λ-148.00000°. NP2:ϕ_s56.00000°,δ58.00000°,λ-2.00000°. Principal axes: T 1.2700,Plg20.0000°,Azm277.0000°; N 0.2000,Plg58.0000°,Azm151.0000° ; P -1.4700,Plg23.0000°,Azm16.0000° $M_0$1.40000×10^{18}
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=5.6km az=102.0. Moment Tensor Solution. $M_0$2.50000×10^{18}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s130,c271; s142,c491;Duration: 2s6 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.04±.01 $M_{\theta\theta}$-1.37±.01; $M_{\phi\phi}$1.40±.01; $M_{r\theta}$-0.32±.02; $M_{\theta\phi}$0.53±.01; $M_{\phi r}$-0.03±.02; Best double couple: NP1:ϕ_s55.00000°,δ84.00000°,λ-11.00000°. NP2:ϕ_s146.00000° ,δ79.00000°,λ-174.00000°. Principal axes: T 1.5010,Plg3.0000°,Azm101.0000° ; N 0.0250,Plg78.0000°,Azm206.0000°; P -1.5310,Plg12.0000°,Azm10.0000° $M_0$1.51600×10^{18}
ISC III 14 04 34 45.9–1.8 27.4S–.30 113.4W–.30 10 4.4b,4.2s 9 35-150
IDC III 14 04 34 44.7–1.6 27.38S 113.39W 0 4.7,4.3 **¶17195067**
ISC Event type ke.
IDC Error ellipse: s-maj=49.0km s-min=34.9km az=43.0.
IDC III 17 20 44 56.4–11 23.12S 112.46W 0 4.0,3.7
¶17196806
IDC Error ellipse: s-maj=497.9km s-min=256.3km az=82.0.
IDC IV 02 21 50 55.8–7.0 30.67S 108.80W 0 4.3,3.8
¶17199578
IDC Error ellipse: s-maj=468.8km s-min=55.2km az=105.0.
ISC V 08 20 39 48.1–1.0 30.3S–.20 112.2W–.20 10 4.4b,4.2s 18 4-153
IDC V 08 20 39 46.6–1.5 30.20S 112.11W 0 4.3,4.2 **¶16506290**
NEIC V 08 20 39 48.5–1.0 30.22S 111.97W 10 4.5b,4.2
GCMT V 08 20 39 52.0–.30 29.79S 111.93W 21–1 5.0W,4.2
ISC Event type se.
IDC Error ellipse: s-maj=58.4km s-min=38.3km az=34.0.
NEIC Event type se. Error ellipse: s-maj=38.5km s-min=27.7km az=224.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s30,c38; s79,c108; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.42±.16 $M_{\theta\theta}$-2.78±.12; $M_{\phi\phi}$3.20±.13; $M_{r\theta}$-1.47±.26; $M_{\theta\phi}$-0.84±.11; $M_{\phi r}$-0.70±.21; Best double couple: NP1:ϕ_s35.00000°,δ78.00000° ,λ-25.00000°. NP2:ϕ_s130.00000°,δ66.00000°,λ-167.00000°. Principal axes: T 3.3880,Plg8.0000°,Azm84.0000°; N 0.2620,Plg63.0000°,Azm191.0000° ; P -3.6500,Plg26.0000°,Azm350.0000° $M_0$3.51900×10^{16}
ISC V 24 15 38 10.4–1.6 23.0S–.40 112.3W–.30 10 3.8b,3.5s 9 42-153
IDC V 24 15 38 09.1–1.3 22.89S 112.24W 0 4.1,3.8 **¶17204388**
ISC Event type ke.
IDC Error ellipse: s-maj=50.8km s-min=39.1km az=35.0.
ISC VI 07 09 32 24.4–.39 28.15S–.08 113.16W–.08 10 4.9b,4.4s 150 20-166
ISCJB VI 07 09 32 22.3–.30 28.15S–.05 113.17W–.08 10 4.8b,4.3s **¶16561018**
IDC VI 07 09 32 22.6–.59 28.03S 113.17W 0 4.6,4.4
BJI VI 07 09 32 24.5 28.20S 112.90W 10 5.5s,5.3
GCMT VI 07 09 32 24.1–.20 28.31S 113.14W 17–1 5.0W,5.3
NEIC VI 07 09 32 24.1–.23 28.19S 113.12W 10 4.9b,5.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.8km az=166.6.
IDC Error ellipse: s-maj=22.7km s-min=16.8km az=71.0.
GCMT Error ellipse: s-maj=1.1km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c48; s92,c143; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.06±.13 $M_{\theta\theta}$-3.96±.13; $M_{\phi\phi}$4.02±.13; $M_{r\theta}$-1.61±.33; $M_{\theta\phi}$0.36±.12; $M_{\phi r}$-0.74±.30; Best double couple: NP1:ϕ_s47.00000°,δ85.00000° ,λ-22.00000°. NP2:ϕ_s139.00000°,δ68.00000°,λ-174.00000°. Principal axes: T 4.2040,Plg12.0000°,Azm95.0000°; N 0.3320,Plg67.0000°,Azm214.0000° ; P -4.5400,Plg20.0000°,Azm1.0000° $M_0$4.37200×10^{16}

NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.2km az=79.0.
ISC VI 11 14 53 03.5–.94 26.8S–.20 114.7W–.20 10 4.2b,3.9s 17 33-167
ISCJB VI 11 14 53 01.4–2.5 26.8S–.40 114.9W–.50 10 4.0b,3.9s **¶17205776**
IDC VI 11 14 53 02.1–.91 26.74S 114.69W 0 4.4,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=80.7km s-min=21.2km az=141.0.
IDC Error ellipse: s-maj=37.7km s-min=25.0km az=51.0.

(686) West Chile Rise.

IDC I 18 22 58 02.9–4.1 44.70S 81.20W 0 4.3,4.1
¶17190510
IDC Error ellipse: s-maj=102.0km s-min=32.5km az=175.0.
IDC I 31 01 30 38.8–3.5 38.51S 93.86W 0 4.0,3.8
¶17191374
IDC Error ellipse: s-maj=102.0km s-min=46.3km az=169.0.
ISC I 31 04 31 49.3–1.7 38.0S–.30 94.1W–.20 25 4.0b 8 18-162
IDC I 31 04 31 45.6–1.9 38.02S 94.14W 0 4.4,4.2b **¶17191386**
ISCJB I 31 04 31 48.6–2.2 37.9S–.30 94.0W–.30 25 4.0b,4.2b
ISC Event type ke.
ISCJB Event type ke.
ISC I 31 04 37 09.6–1.5 38.1S–.30 93.8W–.10 25 4.0s,3.9b 10 18-162
IDC I 31 04 37 05.0–2.2 38.15S 93.94W 0 4.3,4.1 **¶16009333**
ISCJB I 31 04 37 08.5–1.3 38.0S–.20 93.7W–.10 25 3.9s,3.9b
ISC Event type ke.
ISCJB Event type ke.
IDC III 17 01 46 55.3–1.7 35.43S 93.74W 0 4.3,4.0
¶17196599
IDC Error ellipse: s-maj=53.7km s-min=31.2km az=57.0.
IDC IV 02 03 30 36.9–3.9 38.12S 93.19W 0 4.2,3.9s
¶17199495
IDC Error ellipse: s-maj=106.9km s-min=36.9km az=20.0.
IDC IV 05 09 50 36.9–1.1 41.86S 84.06W 0 4.0,3.8
¶17199877
IDC Error ellipse: s-maj=38.5km s-min=27.8km az=99.0.
ISC IV 15 10 33 29.8–.74 36.2S–.10 97.1W–.20 10 4.4b,3.9s 31 21-172
IDC IV 15 10 33 23.7–2.7 36.68S 97.64W 0 4.5,4.1 **¶16440445**
ISCJB IV 15 10 33 27.6–.81 36.3S–.10 97.2W–.10 10 4.5b,3.9s
BJI IV 15 10 33 28.9 35.38S 97.62W 10 4.5b,3.9s
NEIC IV 15 10 33 29.8–.74 36.18S 97.14W 10 4.5b,3.9s
ISC Event type se.
IDC Error ellipse: s-maj=79.5km s-min=29.8km az=33.0.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=13.0km az=42.1.
NEIC Event type se. Error ellipse: s-maj=20.5km s-min=13.7km az=48.0.
IDC IV 20 17 56 13.0–5.0 40.92S 89.19W 0 4.1,4.0
GCMT IV 20 17 56 08.0–.30 41.32S 89.29W 15 4.9W,4.0 **¶17201632**
IDC Error ellipse: s-maj=129.1km s-min=43.7km az=12.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c41; s76,c97; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.23±.12 $M_{\theta\theta}$0.26±.12; $M_{\phi\phi}$-0.03±.12; $M_{r\theta}$-0.51±.36; $M_{\theta\phi}$-2.82±.07; $M_{\phi r}$-0.14±.34; Best double couple: NP1:ϕ_s89.00000°,δ86.00000°,λ-169.00000°. NP2:ϕ_s358.00000°,δ79.00000°,λ-4.00000°. Principal axes: T 2.9630,Plg5.0000°,Azm223.0000°; N -0.1740,Plg79.0000°,Azm107.0000°; P -2.7890,Plg10.0000°,Azm314.0000° $M_0$2.87600×10^{16}
ISC V 08 22 33 53.7–.46 41.60S–.09 83.62W–.09 10 5.0b,4.2s 119 10-171
IDC V 08 22 33 50.1–.80 41.99S 83.86W 0 4.3,4.2 **¶16501810**
ISCJB V 08 22 33 53.0–.44 41.48S–.09 83.43W–.10 10 4.9b,4.2s
NEIC V 08 22 33 53.2–.91 41.91S 83.75W 13–5 5.1b,4.2s
GCMT V 08 22 33 53.2–.20 41.63S 84.11W 12–1 5.0W,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=27.1km s-min=23.7km az=102.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=9.2km az=31.1.
NEIC Event type se. Error ellipse: s-maj=12.4km s-min=9.2km az=214.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s27,c34; s81,c109; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-2.72±.16 $M_{\theta\theta}$-0.03±.09; $M_{\phi\phi}$2.74±.11; $M_{r\theta}$2.99±.42; $M_{\theta\phi}$-0.63±.08; $M_{\phi r}$-0.08±.24; Best double couple: NP1:ϕ_s312.00000°,δ64.00000°,λ-124.00000°. NP2:ϕ_s189.00000°,δ42.00000°,λ-41.00000°. Principal axes: T 3.0360,Plg13.0000°,Azm66.0000°; N 1.6210,Plg30.0000°,Azm329.0000°; P -4.6620,Plg57.0000°,Azm176.0000° $M_0$3.84900×10^{16}
IDC V 09 20 54 05.6–2.8 38.80S 92.33W 0 4.3,4.1
¶17203147
IDC Error ellipse: s-maj=85.2km s-min=47.3km az=157.0.
IDC V 11 20 35 08.5–3.9 36.67S 96.30W 0 4.1,3.9
GCMT V 11 20 35 20.0–.50 36.94S 96.29W 15–3 4.9W,3.9 **¶17203432**
IDC Error ellipse: s-maj=106.2km s-min=34.9km az=31.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s35,c40; s64,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.46±.12 $M_{\theta\theta}$-0.30±.11; $M_{\phi\phi}$-0.15±.12; $M_{r\theta}$1.17±.39; $M_{\theta\phi}$-2.06±.14; $M_{\phi r}$0.16±.20; Best double couple: NP1:ϕ_s88.00000°,δ85.00000°,λ149.00000°. NP2:ϕ_s181.00000°,δ59.00000°,λ5.00000°. Principal axes: T 2.1590,Plg25.0000°,Azm40.0000°; N 0.4390,Plg59.0000°,Azm261.0000°; P -2.5970,Plg18.0000°,Azm139.0000° $M_0$2.37800×10^{16}
IDC VI 09 20 35 28.5–10 37.90S 91.85W 0 4.4,4.2
¶17205658
IDC Error ellipse: s-maj=283.9km s-min=34.0km az=2.0.
ISC VI 17 03 17 33.2–1.2 36.8S–.20 94.2W–.20 10 4.5s,4.4b 20 19-158
ISCJB VI 17 03 17 31.0–1.6 36.9S–.20 94.3W–.20 10 4.5s,4.3b **¶16645079**
IDC VI 17 03 17 31.0–1.7 36.95S 94.25W 0 4.6,4.5s
NEIC VI 17 03 17 33.0–.64 36.83S 94.24W 10 4.4b,4.5s
GCMT VI 17 03 17 33.0–.20 37.34S 94.53W 17–1 5.1W,4.5s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=36.8km s-min=15.3km az=33.0.
IDC Error ellipse: s-maj=46.1km s-min=28.6km az=4.0.
NEIC Event type se. Error ellipse: s-maj=17.3km s-min=11.1km az=203.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s46,c56; s97,c137; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.44±.17 $M_{\theta\theta}$0.09±.16; $M_{\phi\phi}$0.35±.16; $M_{r\theta}$0.13±.37; $M_{\theta\phi}$-5.71±.15; $M_{\phi r}$-0.69±.38; Best double couple: NP1:ϕ_s181.00000°,δ89.00000°,λ7.00000°. NP2:ϕ_s91.00000°,δ83.00000°,λ179.00000°. Principal axes: T 5.9860,Plg5.0000°,Azm46.0000°; N -0.4660,Plg83.0000°,Azm185.0000°; P -5.5200,Plg4.0000°,Azm315.0000° $M_0$5.75300×10^{16}
IDC VI 20 18 31 50.6–1.2 37.47S 94.01W 0 4.4L,4.3
¶17206613
IDC Error ellipse: s-maj=37.4km s-min=28.2km az=99.0.

(688) East of North Island.

ISC I 06 13 57 14.8–2.3 35.6S–.20 179.1W–.30 41 18 3-150
IDC I 06 13 57 13.9–3.2 35.32S 179.66W 0 3.9,3.7 **¶17189597**
ISCJB I 06 13 57 14.5–1.6 35.6S–.10 179.2W–.20 41 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 09 23 27 00.7–.80 35.32S–.08 179.7W–.10 41 4.4b 38 3-162
IDC I 09 23 26 55.7–1.3 35.03S 179.77W 0 4.7,4.5b **¶16057158**
NEIC I 09 23 27 01.5–3.7 35.23S 179.91W 35–27 4.5b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=42.5km s-min=35.8km az=14.0.
NEIC Event type se. Error ellipse: s-maj=16.4km s-min=13.9km az=149.0.
ISC I 10 08 45 17.9–2.2 35.4S–.20 179.1W–.30 41 26 3-149
IDC I 10 08 45 16.1–2.9 35.30S 179.54W 0 4.4,4.3b **¶17189832**
ISCJB I 10 08 45 17.6–1.3 35.4S–.10 179.2W–.20 41 4.1b,3.9s
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 16 32 57.2–2.0 36.5S–.10 179.2W–.20 35 33 2-157
WEL I 27 16 32 57.9–.46 36.48S 179.20W 33 3.9L **¶17191124**
IDC I 27 16 33 00.2–1.9 35.30S 179.97E 0 3.8,3.6
ISC Event type ke.
WEL Event type ke. Error ellipse: s-maj=5.0km s-min=4.9km az=90.0.
IDC Error ellipse: s-maj=74.7km s-min=43.0km az=21.0.
ISC II 27 05 56 23.6–2.0 35.1S–.10 179.9W–.20 43 19 3-149
IDC II 27 05 56 16.8–3.0 35.02S 179.62W 0 4.2,4.0 **¶17192936**
ISC Event type ke.
IDC Error ellipse: s-maj=70.9km s-min=45.0km az=128.0.
ISC III 29 13 20 49.9–.74 38.97S–.06 179.93W–.06 10 4.5b 211 2-154
ISCJB III 29 13 20 46.3–.73 38.94S–.04 179.61W–.07 10 4.5b **¶16391423**
NEIC III 29 13 20 51.2 38.65S 179.69W 34 4.7L,4.6b
WEL III 29 13 20 51.2–.41 38.67S 179.68W 33 4.7L,4.6b
IDC III 29 13 20 52.9–.93 37.55S 179.65E 0 4.7,4.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=4.8km az=164.8.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=4.1km s-min=2.1km az=90.0.
IDC Error ellipse: s-maj=28.1km s-min=24.5km az=168.0.
WEL IV 17 18 03 12.1–.63 41.21S 179.18W 33 4.1L
¶601003881
WEL Event type ke. Error ellipse: s-maj=6.2km s-min=3.8km az=90.0.
ISC IV 19 04 29 33.2–.66 35.04S–.07 179.1W–.10 42 4.4b,4.2s 60 3-158
IDC IV 19 04 29 27.6–.81 34.97S 179.23W 0 4.7,4.6 **¶16505438**
ISCJB IV 19 04 29 29.7–.84 35.14S–.05 178.9W–.10 42 4.5b,4.1s
NEIC IV 19 04 29 33.1–2.0 35.06S 179.25W 36–16 4.4b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=30.8km s-min=21.9km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=6.9km az=18.9.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=13.8km az=52.0.
ISC IV 21 07 53 59.5–2.5 35.4S–.20 178.9W–.30 43 19 3-150
IDC IV 21 07 53 58.7–3.5 35.21S 179.55W 0 4.0,3.8 **¶17201695**
ISC Event type ke.
IDC Error ellipse: s-maj=80.8km s-min=38.2km az=121.0.
WEL IV 23 22 41 27.0–.67 40.46S 179.92W 33 3.5L
¶16452982
WEL Event type ke. Error ellipse: s-maj=7.3km s-min=2.6km az=90.0.
ISC IV 28 00 27 14.7–1.2 36.8S–.10 179.3W–.10 28 35 2-156
IDC IV 28 00 27 10.8–1.4 36.48S 179.34W 0 4.3,4.2b **¶17202267**
ISCJB IV 28 00 27 12.5–1.1 36.8S–.10 179.2W–.10 28 4.0b,4.2b
WEL IV 28 00 27 13.7–.45 36.63S 179.16W 33 4.2L,4.2b
ISC Event type ke.
IDC Error ellipse: s-maj=43.3km s-min=33.0km az=150.0.
ISCJB Event type ke. Error ellipse: s-maj=21.6km s-min=9.4km az=146.5.
WEL Event type ke. Error ellipse: s-maj=5.4km s-min=3.9km az=0.0.
WEL V 05 23 29 55.9–.51 36.82S 179.03W 33 3.8L
¶601004556
WEL Event type ke. Error ellipse: s-maj=6.1km s-min=5.2km az=0.0.
ISC V 11 06 11 26.2–.42 36.48S–.04 179.60W–.04 34–1 5.4b,4.5s 489 2-175
NEIC V 11 06 11 23.0–.21 36.33S 179.49W 10 5.3b,4.5s **¶16503619**
WEL V 11 06 11 22.9–.51 36.27S 179.08W 33 5.8L,4.5s
GCMT V 11 06 11 23.0–.10 36.25S 179.22W 14–0 5.3W,4.5s
ISCJB V 11 06 11 25.9–.16 36.49S–.03 179.58W–.03 38 5.3b,4.5s
MOS V 11 06 11 25.8–1.1 36.29S 179.62W 33 5.2b,4.8s
BJI V 11 06 11 26.5 36.51S 179.74W 42 5.5b,5.4b
IDC V 11 06 11 28.9–1.6 36.28S 179.52W 53–14 5.2L,4.9
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=7.6km s-min=3.7km az=136.0. Felt on the east coast of the North Island.
WEL Event type fe. Error ellipse: s-maj=4.8km s-min=3.0km az=90.0. Felt between Auckland, Southland and Gisborne, maximum reported intensity MM. 4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s88,c153; s106,c191; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.07±.02 $M_{\theta\theta}$-0.23±.02; $M_{\phi\phi}$1.30±.02; $M_{r\theta}$-0.05±.04; $M_{\theta\phi}$0.22±.01; $M_{\phi r}$-0.00±.03; Best double couple: NP1:ϕ_s12.00000°,δ45.00000°,λ-85.00000°. NP2:ϕ_s184.00000°,δ45.00000°,λ-95.00000°. Principal axes: T 1.3300,Plg0.0000°,Azm98.0000°; N -0.2600,Plg4.0000°,Azm188.0000°; P -1.0730,Plg86.0000°,Azm4.0000° $M_0$1.20200×10^{17}
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.3km az=138.0.
MOS Error ellipse: s-maj=10.8km s-min=9.7km az=81.5.
IDC Error ellipse: s-maj=11.8km s-min=8.7km az=163.0.
WEL V 19 08 43 40.4–.32 36.15S 179.82W 33 3.5L
¶601005099
WEL Event type ke. Error ellipse: s-maj=3.7km s-min=2.2km az=90.0.
ISC V 21 10 36 20.0–1.8 36.5S–.10 179.1W–.10 10 4.2b 42 2-150
IDC V 21 10 36 29.3–3.1 35.89S 179.22E 0 4.2,4.1b **¶17204128**
ISC Event type ke.
IDC Error ellipse: s-maj=64.3km s-min=33.5km az=112.0.
WEL V 23 11 05 27.6–.66 36.36S 179.70W 33 3.8L
¶16537225
WEL Event type ke. Error ellipse: s-maj=6.5km s-min=5.7km az=90.0.
WEL V 29 00 02 18.9–.64 38.66S 179.79W 33 3.5L
¶601006228
WEL Event type ke. Error ellipse: s-maj=6.5km s-min=3.2km az=90.0.
WEL VI 07 03 16 14.5–.63 37.65S 179.91W 33 3.7L
¶16578074
WEL Event type ke. Error ellipse: s-maj=6.2km s-min=3.5km az=90.0.
WEL VI 08 07 28 34.4–.42 37.08S 179.18W 33 3.7L
¶16578084
WEL Event type ke. Error ellipse: s-maj=5.6km s-min=4.6km az=0.0.
WEL VI 19 21 41 51.2–.50 37.53S 179.50W 12 3.6L
¶601027705
WEL Event type ke. Error ellipse: s-maj=5.2km s-min=4.4km az=0.0.
ISC VI 23 02 40 59.2–1.1 36.92S–.09 179.21W–.07 18 4.5b 62 2-156
ISCJB VI 23 02 40 56.8–.74 36.84S–.07 179.09W–.07 18 4.5b **¶16646160**
IDC VI 23 02 40 57.0–1.5 36.67S 179.29W 0 4.6,4.6b
NEIC VI 23 02 40 58.4 36.79S 178.94W 33 4.4b,4.3L
WEL VI 23 02 40 58.0–.74 36.76S 178.93W 33 4.3L,4.3L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.0km s-min=6.6km az=146.2.
IDC Error ellipse: s-maj=47.7km s-min=29.6km az=155.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=6.8km s-min=6.4km az=0.0.
ISC VI 28 09 58 14.8–3.2 37.69S–.05 179.45W–.06 31–24 141 2-151
IDC VI 28 09 58 12.1–2.3 37.01S 179.70W 0 4.8,4.5 **¶16684586**
NEIC VI 28 09 58 12.8 37.52S 179.27W 22 4.3L,4.5
WEL VI 28 09 58 14.0–.37 37.51S 179.30W 33 4.3L,4.5
ISC Event type ke.
IDC Error ellipse: s-maj=93.4km s-min=36.5km az=158.0.
NEIC Event type se. After WEL.
WEL Event type ke. Error ellipse: s-maj=3.7km s-min=2.6km az=90.0.
WEL VI 28 10 37 11.0–.76 37.51S 179.36W 33 4.1L
¶601027996
WEL Event type ke. Error ellipse: s-maj=7.1km s-min=4.5km az=90.0.
WEL VI 28 11 14 40.2–.68 37.53S 179.39W 33 3.8L
¶601027999
WEL Event type ke. Error ellipse: s-maj=6.3km s-min=4.3km az=90.0.
WEL VI 28 21 05 42.4–.18 37.56S 179.75W 12 3.8L
¶601028014
WEL Event type ke. Error ellipse: s-maj=2.8km s-min=1.7km az=0.0.

(691) Pacific-Antarctic Ridge.

IDC I 11 19 49 40.0–3.0 61.55S 161.17W 0 4.2,4.0
¶15940507
IDC Error ellipse: s-maj=82.0km s-min=47.8km az=76.0.
ISC I 13 16 04 17.7–.71 58.2S–.20 139.9W–.20 10 4.5b 14 32-157
ISCJB I 13 16 04 15.7–1.0 58.1S–.30 139.9W–.30 10 4.5b **¶16022167**
IDC I 13 16 04 16.3–.79 58.17S 139.92W 0 4.4,4.2
NEIC I 13 16 04 17.6–.67 58.38S 139.83W 10 4.9b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=37.0km s-min=21.4km az=1.7.
IDC Error ellipse: s-maj=39.5km s-min=28.9km az=175.0.
NEIC Event type se. Error ellipse: s-maj=27.7km s-min=20.5km az=197.0.
ISC I 19 00 39 29.2–.90 57.0S–.30 142.3W–.20 10 4.7s,4.2b 13 28-154
ISCJB I 19 00 39 27.3–1.1 57.0S–.20 142.4W–.30 10 4.7s,4.1b **¶15968925**
IDC I 19 00 39 27.4–.76 56.44S 142.38W 0 4.6s,4.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=36.1km s-min=19.7km az=24.1.
IDC Error ellipse: s-maj=110.8km s-min=22.8km az=176.0.

IDC I 20 12 03 11.6–8.2 57.13S 140.90W 0 4.1,3.8
¶17190620

IDC Error ellipse: s-maj=640.5km s-min=58.6km az=155.0.
IDC I 25 19 02 50.6–10 54.40S 129.40W 0 4.2,4.1
GCMT I 25 19 02 48.0–.20 55.70S 124.21W 24–1 5.1W,4.1 **¶17190980**
IDC Error ellipse: s-maj=430.7km s-min=107.6km az=125.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s56,c78; s88,c134; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.30±.18 $M_{\theta\theta}$3.19±.20; $M_{\phi\phi}$-2.89±.15; $M_{r\theta}$-1.11±.24; $M_{\theta\phi}$4.46±.12; $M_{\phi r}$1.23±.23; Best double couple: NP1:ϕ_s106.00000°,δ81.00000° ,λ-15.00000°. NP2:ϕ_s198.00000°,δ75.00000°,λ-171.00000°. Principal axes: T 5.5770,Plg4.0000°,Azm153.0000°; N 0.1480,Plg73.0000°,Azm256.0000° ; P -5.7240,Plg17.0000°,Azm62.0000° M_o5.65100×10^{16}
ISC I 29 11 58 18.5–.34 63.07S–.07 164.13W–.07 10 5.3s,5.1b 145 17-175
ISCJB I 29 11 58 16.3–.32 63.09S–.06 164.4W–.10 10 5.3s,5.1b **¶15979848**
IDC I 29 11 58 16.1–.54 62.77S 164.21W 0 5.1s,5.0
GCMT I 29 11 58 17.8–.10 63.21S 164.59W 12 5.6W,5.0
NEIC I 29 11 58 17.8–.25 62.96S 164.22W 10 5.5W,5.4s
BJI I 29 11 58 19.9 63.00S 164.20W 10 5.7b,5.5s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=6.5km az=38.7.
IDC Error ellipse: s-maj=26.3km s-min=15.6km az=23.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s93,c148; s127,c280;Duration: 1s5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.75±.03 $M_{\theta\theta}$3.02±.03; $M_{\phi\phi}$-2.27±.03; $M_{r\theta}$-0.69±.08; $M_{\theta\phi}$0.37±.03; $M_{\phi r}$0.46±.08; Best double couple: NP1: ϕ_s130.00000°,δ85.00000°,λ-19.00000°. NP2:ϕ_s221.00000°,δ71.00000°,λ-174.00000°. Principal axes: T 3.1570,Plg10.0000°,Azm177.0000°; N -0.6970,Plg70.0000°,Azm295.0000° ; P -2.4560,Plg17.0000°,Azm84.0000° M_o2.80600×10^{17}
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=36.0. Moment Tensor Solution. s17 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21 $M_{\theta\theta}$2.09 $M_{\phi\phi}$-1.88 $M_{r\theta}$0.11 $M_{\theta\phi}$0.69 $M_{\phi r}$-0.45 Best double couple: NP1:ϕ_s36.00000°,δ80.00000°,λ-171.00000°. NP2:ϕ_s305.00000° ,δ81.00000°,λ-10.00000°. Principal axes: T 2.2100,Plg1.0000°,Azm350.0000° ; N -0.1000,Plg76.0000°,Azm84.0000°; P -2.1100,Plg14.0000°,Azm260.0000° M_o2.20000×10^{17}
ISC II 05 08 42 42.0–.62 55.2S–.30 130.5W–.10 10 4.6b,4.1s 22 32-160
ISCJB II 05 08 42 40.3–.49 55.3S–.30 130.4W–.20 10 4.5b,4.1s **¶16009358**
IDC II 05 08 42 40.3–.64 55.31S 130.50W 0 4.6,4.4
NEIC II 05 08 42 41.9–.33 55.16S 130.50W 10 4.8b,4.4
GCMT II 05 08 42 41.8–.30 54.94S 130.62W 25–1 5.0W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=41.4km s-min=11.8km az=165.7.
IDC Error ellipse: s-maj=55.3km s-min=17.0km az=169.0.
NEIC Event type se. Error ellipse: s-maj=28.2km s-min=9.1km az=167.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s21,c23; s60,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.40±.20 $M_{\theta\theta}$2.30±.21; $M_{\phi\phi}$-1.90±.17; $M_{r\theta}$0.15±.35; $M_{\theta\phi}$2.73±.12; $M_{\phi r}$-0.11±.32; Best double couple: NP1:ϕ_s289.00000°,δ89.00000° ,λ-3.00000°. NP2:ϕ_s19.00000°,δ87.00000°,λ-179.00000°. Principal axes: T 3.6460,Plg1.0000°,Azm334.0000°; N -0.3920,Plg86.0000°,Azm85.0000° ; P -3.2540,Plg3.0000°,Azm244.0000° M_o3.45000×10^{16}
ISC II 13 17 56 44.6–2.1 54.6S–.30 130.6W–.60 10 4.0s,3.8b 7 32-158
IDC II 13 17 56 43.4–1.9 54.64S 130.72W 0 4.2,4.0 **¶16029794**
ISC Event type ke.
IDC Error ellipse: s-maj=81.4km s-min=42.3km az=109.0.
ISC II 21 20 10 58.4–.55 62.6S–.10 158.6W–.10 10 4.7b,4.4s 26 19-156
ISCJB II 21 20 10 57.0–.55 62.54S–.09 158.7W–.20 10 4.6b,4.4s **¶16176406**
IDC II 21 20 10 57.0–.61 62.85S 158.71W 0 4.6,4.5
NEIC II 21 20 10 58.0–.49 62.40S 158.51W 10 4.9b,4.5
GCMT II 21 20 10 58.0–.20 62.78S 158.63W 12 5.2W,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=13.1km az=143.1.
IDC Error ellipse: s-maj=64.0km s-min=15.9km az=16.0.
NEIC Event type se. Error ellipse: s-maj=22.1km s-min=13.5km az=200.0.
GCMT Error ellipse: s-maj=4.4km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c39; s80,c119; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.89±.16 $M_{\theta\theta}$7.45±.14; $M_{\phi\phi}$-2.56±.16; $M_{r\theta}$-1.11±.44; $M_{\theta\phi}$-0.34±.14; $M_{\phi r}$2.40±.53; Best double couple: NP1:ϕ_s119.00000°,δ58.00000° ,λ-53.00000°. NP2:ϕ_s244.00000°,δ48.00000°,λ-134.00000°. Principal axes: T 7.5810,Plg6.0000°,Azm183.0000°; N -1.1460,Plg31.0000°,Azm277.0000° ; P -6.4350,Plg58.0000°,Azm84.0000° M_o7.00800×10^{16}
ISC III 05 02 33 22.2–.72 56.7S–.20 141.6W–.10 10 4.5b,3.9s 21 32-167
ISCJB III 05 02 33 20.3–.82 56.8S–.20 141.6W–.20 10 4.7b,3.9s **¶16298654**
IDC III 05 02 33 20.9–.78 56.53S 141.79W 0 4.5,4.3b
NEIC III 05 02 33 22.2–.37 56.68S 141.64W 10 4.6b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.6km s-min=15.8km az=16.2.
IDC Error ellipse: s-maj=49.9km s-min=23.9km az=176.0.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=10.4km az=188.0.
GCMT III 10 15 59 04.0–.30 57.11S 141.15W 27–1 4.9W
¶16337995
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c28; s62,c78; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.17±.20 $M_{\theta\theta}$2.35±.20; $M_{\phi\phi}$-2.18±.16; $M_{r\theta}$0.40±.30; $M_{\theta\phi}$2.02±.11; $M_{\phi r}$0.87±.29; Best double couple: NP1:ϕ_s204.00000°,δ89.00000° ,λ-162.00000°. NP2:ϕ_s114.00000°,δ72.00000°,λ-1.00000°. Principal axes: T 3.2590,Plg11.0000°,Azm338.0000°; N -0.1500,Plg72.0000°,Azm208.0000° ; P -3.1090,Plg13.0000°,Azm71.0000° M_o3.18400×10^{16}
IDC III 13 15 53 18.6–4.2 65.21S 178.16W 0 4.1,3.9
¶17194913
IDC Error ellipse: s-maj=131.3km s-min=41.9km az=72.0.
IDC III 17 07 16 14.0–23 64.94S 173.28W 0 3.8,3.8L
¶17196644
IDC Error ellipse: s-maj=558.7km s-min=56.5km az=84.0.
IDC III 19 02 17 15.2–2.0 55.85S 142.44W 0 3.9,3.7
¶17197122
IDC Error ellipse: s-maj=403.5km s-min=47.1km az=177.0.
ISC III 22 19 09 16.8–.82 62.9S–.10 158.0W–.20 10 4.5s,4.5b 13 19-147
ISCJB III 22 19 09 14.8–.89 62.8S–.10 158.3W–.30 10 4.5s,4.5b **¶16358664**
IDC III 22 19 09 14.4–.93 62.59S 157.97W 0 4.5b,4.5
GCMT III 22 19 09 15.3–.10 62.92S 158.38W 18–0 5.3W,4.5
NEIC III 22 19 09 15.3–.78 62.66S 157.88W 10 4.6b,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=23.0km s-min=16.3km az=177.6.
IDC Error ellipse: s-maj=37.6km s-min=27.0km az=14.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c112; s108,c167; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21±.02 $M_{\theta\theta}$1.32±.03; $M_{\phi\phi}$-1.11±.02; $M_{r\theta}$-0.18±.05; $M_{\theta\phi}$0.31±.02; $M_{\phi r}$0.28±.05; Best double couple: NP1:ϕ_s127.00000°,δ82.00000° ,λ-16.00000°. NP2:ϕ_s219.00000°,δ75.00000°,λ-172.00000°. Principal axes: T 1.3730,Plg5.0000°,Azm173.0000°; N -0.1350,Plg73.0000°,Azm281.0000° ; P -1.2380,Plg16.0000°,Azm82.0000° M_o1.30600×10^{17}
NEIC Event type se. Error ellipse: s-maj=29.4km s-min=24.3km az=75.0.
ISC III 24 13 20 13.7–.83 55.2S–.30 130.3W–.20 10 3.9b,3.9s 11 32-161
ISCJB III 24 13 20 12.3–1.1 55.4S–.40 130.2W–.40 10 3.8b,3.8s **¶16399139**
IDC III 24 13 20 12.2–.75 55.12S 130.34W 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=66.8km s-min=24.6km az=154.0.
IDC Error ellipse: s-maj=50.5km s-min=25.8km az=160.0.
IDC III 28 22 05 58.4–1.4 55.53S 140.41W 0 4.0s,4.0
¶17199002
IDC Error ellipse: s-maj=587.3km s-min=33.7km az=173.0.
IDC IV 02 01 10 35.2–4.8 56.18S 142.86W 0 4.0,3.7
¶17199474
IDC Error ellipse: s-maj=442.3km s-min=56.8km az=158.0.
ISC IV 02 01 18 47.3–1.4 56.8S–.30 141.9W–.30 10 4.0b 10 33-163
IDC IV 02 01 18 45.9–1.2 56.77S 141.91W 0 4.1,4.0b **¶17199476**
ISC Event type ke.
IDC Error ellipse: s-maj=81.9km s-min=37.1km az=178.0.
ISC IV 09 12 42 32.6–.59 58.9S–.20 159.5W–.10 10 4.7b,3.5s 25 23-157
ISCJB IV 09 12 42 31.4–.74 58.9S–.20 159.5W–.20 10 4.5b,3.5s **¶16462818**
IDC IV 09 12 42 31.1–.61 58.80S 159.41W 0 4.5,4.3b
NEIC IV 09 12 42 32.4–.41 58.81S 159.49W 10 4.9b,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.1km s-min=16.6km az=8.1.
IDC Error ellipse: s-maj=36.0km s-min=19.8km az=11.0.
NEIC Event type se. Error ellipse: s-maj=18.7km s-min=14.4km az=11.0.
ISC IV 18 07 23 42.8–.54 54.4S–.20 131.5W–.10 10 4.7b,3.7s 27 31-159
ISCJB IV 18 07 23 41.2–.55 54.4S–.20 131.5W–.20 10 4.6b,3.7s **¶16462839**
IDC IV 18 07 23 41.4–.55 54.40S 131.57W 0 4.6,4.4
NEIC IV 18 07 23 42.6–.33 54.34S 131.56W 10 4.8b,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=24.6km s-min=13.1km az=152.7.
IDC Error ellipse: s-maj=36.1km s-min=17.3km az=157.0.
NEIC Event type se. Error ellipse: s-maj=18.3km s-min=11.1km az=159.0.
GCMT IV 19 05 23 20.0–.40 54.12S 133.17W 27–2 5.0W
¶16462845
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c25; s66,c86; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.14±.22 $M_{\theta\theta}$2.52±.19; $M_{\phi\phi}$-2.38±.18; $M_{r\theta}$1.96±.34; $M_{\theta\phi}$2.06±.13; $M_{\phi r}$2.56±.38; Best double couple: NP1:ϕ_s27.00000°,δ90.00000° ,λ135.00000°. NP2:ϕ_s118.00000°,δ45.00000°,λ1.00000°. Principal axes: T 4.8660,Plg30.0000°,Azm333.0000°; N -0.7330,Plg45.0000°,Azm207.0000° ; P -4.1340,Plg30.0000°,Azm82.0000° M_o4.50000×10^{16}
ISC IV 19 09 31 34.7–2.0 57.1S–.40 142.7W–.30 10 4.2b,3.9s 9 28-151
IDC IV 19 09 31 33.2–2.2 56.53S 142.81W 0 4.2,4.0 **¶16462846**
GCMT IV 19 09 31 36.0–.40 56.78S 141.75W 27–2 4.9W,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=427.5km s-min=45.4km az=177.0.
GCMT Error ellipse: s-maj=4.4km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c25; s61,c76; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.22±.21 $M_{\theta\theta}$2.24±.20; $M_{\phi\phi}$-2.01±.17; $M_{r\theta}$0.78±.35; $M_{\theta\phi}$2.02±.12; $M_{\phi r}$0.81±.31; Best double couple: NP1:ϕ_s23.00000°,δ86.00000° ,λ161.00000°. NP2:ϕ_s114.00000°,δ71.00000°,λ4.00000°. Principal axes: T 3.3450,Plg16.0000°,Azm337.0000°; N -0.4380,Plg71.0000°,Azm191.0000° ; P -2.9010,Plg10.0000°,Azm70.0000° M_o3.12300×10^{16}
ISC IV 20 11 02 54.3–.51 62.89S–.10 164.8W–.10 10 4.6s,4.5b 37 17-166
ISCJB IV 20 11 02 52.4–.56 62.90S–.08 164.8W–.20 10 4.9b,4.6s **¶16485028**
IDC IV 20 11 02 53.2–.55 62.88S 164.75W 0 4.7,4.6
NEIC IV 20 11 02 54.4–.33 62.93S 164.83W 10 4.8b,4.6
GCMT IV 20 11 02 54.4–.10 63.25S 164.94W 13–1 5.3W,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=11.2km az=161.7.
IDC Error ellipse: s-maj=27.1km s-min=16.6km az=27.0.
NEIC Event type se. Error ellipse: s-maj=11.7km s-min=9.6km az=65.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c119; s100,c155; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$0.77±.02; $M_{\phi\phi}$-0.64±.02; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$0.70±.02; $M_{\phi r}$-0.05±.03; Best double couple: NP1:ϕ_s203.00000°,δ87.00000° ,λ176.00000°. NP2:ϕ_s293.00000°,δ86.00000°,λ3.00000°. Principal axes: T 1.0670,Plg5.0000°,Azm158.0000°; N -0.1340,Plg85.0000°,Azm347.0000° ; P -0.9320,Plg1.0000°,Azm248.0000° M_o0.99900×10^{17}
IDC IV 26 11 40 42.9–1.3 54.41S 136.47W 0 4.1,4.0
¶16485048
IDC Error ellipse: s-maj=198.6km s-min=32.9km az=168.0.
IDC IV 28 09 38 32.0–12 59.33S 141.22W 0 4.0,3.7
¶17202292
IDC Error ellipse: s-maj=1048.0km s-min=46.7km az=158.0.
IDC IV 29 17 23 11.7–3.6 57.16S 145.49W 0 3.9,3.7
¶17202399
IDC Error ellipse: s-maj=288.5km s-min=52.8km az=161.0.
IDC V 02 10 37 39.3–6.8 55.82S 145.58W 0 3.9,3.7
¶17202610
IDC Error ellipse: s-maj=599.0km s-min=62.4km az=160.0.
ISC V 03 04 35 29.5–1.0 56.1S–.30 140.3W–.30 10 4.0b,3.8s 10 29-152
IDC V 03 04 35 28.7–1.3 55.73S 140.72W 0 4.0,3.8 **¶16495918**
ISC Event type ke.
IDC Error ellipse: s-maj=145.5km s-min=37.2km az=165.0.
ISC V 13 03 36 50.6–.34 59.48S–.08 151.17W–.08 10 5.3s,4.9b 110 23-174
ISCJB V 13 03 36 48.7–.34 59.45S–.07 151.4W–.10 10 5.3s,5.0b **¶16509467**
IDC V 13 03 36 48.6–.48 59.34S 151.61W 0 5.3s,5.3
GCMT V 13 03 36 50.5–.10 59.64S 151.31W 15–0 5.7W,5.3
NEIC V 13 03 36 50.5–.29 59.44S 151.35W 10 5.3s,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=9.1km az=177.8.
IDC Error ellipse: s-maj=23.4km s-min=15.0km az=1.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s113,c204; s124,c329;Duration: 1s7 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.25±.03 $M_{\theta\theta}$3.36±.04; $M_{\phi\phi}$-3.11±.04; $M_{r\theta}$-0.69±.08; $M_{\theta\phi}$2.24±.03; $M_{\phi r}$-0.14±.06; Best double couple: NP1: ϕ_s298.00000°,δ85.00000°,λ7.00000°. NP2:ϕ_s207.00000°,δ83.00000°,λ174.00000°. Principal axes: T 4.1700,Plg9.0000°,Azm163.0000°; N -0.3630,Plg81.0000°,Azm335.0000° ; P -3.8110,Plg1.0000°,Azm73.0000° M_o3.99100×10^{17}
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=10.1km az=191.0.
ISC VI 19 11 05 30.1–.41 55.02S–.08 128.89W–.10 14 4.9s,4.6b 60 32-176
ISCJB VI 19 11 05 27.8–.43 55.07S–.07 129.0W–.20 14 4.8s,4.6b **¶16638742**
IDC VI 19 11 05 28.7–.67 54.54S 130.09W 0 4.8s,4.8
NEIC VI 19 11 05 29.6–.39 54.89S 129.49W 10 4.9b,4.9s
GCMT VI 19 11 05 29.6–.10 55.33S 128.73W 18–0 5.5W,4.9s
BJI VI 19 11 05 29.0 55.20S 128.60W 10 5.2s,5.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=9.4km az=179.8.
IDC Error ellipse: s-maj=30.0km s-min=23.4km az=134.0.
NEIC Event type se. Error ellipse: s-maj=22.2km s-min=13.3km az=139.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s110,c206; s126,c241; Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.33±.02 $M_{\theta\theta}$1.43±.03; $M_{\phi\phi}$-1.09±.02; $M_{r\theta}$-0.07±.05; $M_{\theta\phi}$1.80±.02; $M_{\phi r}$0.24±.05; Best double couple: NP1:ϕ_s198.00000°,δ85.00000° ,λ-173.00000°. NP2:ϕ_s107.00000°,δ84.00000°,λ-5.00000°. Principal axes: T 2.3680,Plg1.0000°,Azm332.0000°; N -0.3000,Plg82.0000°,Azm235.0000° ; P -2.0620,Plg8.0000°,Azm63.0000° M_o2.21500×10^{17}
ISC VI 24 23 15 02.4–.55 53.6S–.10 134.3W–.10 10 4.4b,4.0s 23 30-157
ISCJB VI 24 23 15 00.8–.48 53.6S–.10 134.3W–.10 10 4.4b,3.9s **¶16711257**
IDC VI 24 23 15 01.2–.86 53.63S 134.29W 0 4.3,4.2
NEIC VI 24 23 15 02.4–.32 53.58S 134.32W 10 4.6b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=11.5km az=177.5.
IDC Error ellipse: s-maj=38.0km s-min=23.3km az=165.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.7km az=179.0.
ISC VI 27 11 42 07.1–.64 54.5S–.20 128.1W–.10 10 4.6b,4.5s 20 32-159
IDC VI 27 11 42 05.4–.64 54.47S 128.13W 0 4.5s,4.5 **¶16711263**
ISCJB VI 27 11 42 06.2–.50 54.7S–.10 128.2W–.20 10 4.5s,4.5b
NEIC VI 27 11 42 07.4–.41 54.60S 128.15W 10 4.6b,4.5b
GCMT VI 27 11 42 07.4–.20 55.05S 127.45W 12–1 5.0W,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=29.1km s-min=18.1km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=21.8km s-min=14.5km az=39.2.
NEIC Event type se. Error ellipse: s-maj=19.3km s-min=13.0km az=136.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c47; s102,c156; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.17±.12 $M_{\theta\theta}$3.36±.15; $M_{\phi\phi}$-2.19±.11; $M_{r\theta}$-0.85±.32; $M_{\theta\phi}$3.40±.10; $M_{\phi r}$0.74±.29; Best double couple: NP1:ϕ_s108.00000°,δ80.00000° ,λ-17.00000°. NP2:ϕ_s201.00000°,δ73.00000°,λ-169.00000°. Principal axes: T 5.0070,Plg4.0000°,Azm155.0000°; N -0.8430,Plg70.0000°,Azm257.0000° ; P -4.1650,Plg19.0000°,Azm64.0000° M_o4.58600×10^{16}

(692) Southern Pacific Ocean.

ISC IV 04 07 50 46.6–.54 48.5S–.10 87.1W–.20 10 4.8b 127 23-173
IDC IV 04 07 50 44.9–.94 48.55S 87.05W 0 4.6,4.4 **¶16577649**
NEIC IV 04 07 50 46.0–.34 48.70S 86.84W 10 5.0b,4.4
ISCJB IV 04 07 50 46.5–2.6 48.3S–.50 86.9W–.40 10 4.8b,4.4
ISC Event type se.

NEIC Event type se.
ISCJB Event type se.

(756) Southeast of Easter Island.

ISC I 01 14 11 56.7–.66 41.2S–.10 90.2W–.10 10 4.3s,4.2b 22 15-172
ISCJB I 01 14 11 55.5–.75 41.2S–.10 90.2W–.20 10 4.3s,4.2b **¶16022579**
IDC I 01 14 11 55.4–.73 41.20S 90.28W 0 4.5,4.3
NEIC I 01 14 11 56.7–.59 41.14S 90.17W 10 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=14.9km az=174.6.
IDC Error ellipse: s-maj=26.0km s-min=20.8km az=102.0.
NEIC Event type se. Error ellipse: s-maj=17.2km s-min=14.5km az=169.0.
ISC I 03 23 10 16.0–.65 41.2S–.10 90.66W–.10 10 4.6s,4.3b 25 15-156
ISCJB I 03 23 10 13.5–.77 41.2S–.10 90.8W–.10 10 4.5s,4.2b **¶15930104**
IDC I 03 23 10 13.6–.75 41.20S 90.87W 0 4.5s,4.5
NEIC I 03 23 10 15.0–.54 41.16S 90.87W 10 4.5b,4.5
GCMT I 03 23 10 15.0–.20 41.26S 90.72W 18–0 5.3W,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.5km s-min=14.9km az=148.7.
IDC Error ellipse: s-maj=24.3km s-min=19.9km az=118.0.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=12.6km az=199.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s80,c122; s108,c193; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10±.02 $M_{\theta\theta}$0.18±.02; $M_{\phi\phi}$-0.08±.02; $M_{r\theta}$0.17±.05; $M_{\theta\phi}$-1.28±.02; $M_{\phi r}$0.07±.05; Best double couple: NP1:ϕ_s267.00000°,δ86.00000° ,λ-172.00000°. NP2:ϕ_s177.00000°,δ82.00000°,λ-4.00000°. Principal axes: T 1.3390,Plg3.0000°,Azm42.0000°; N -0.0750,Plg81.0000°,Azm291.0000° ; P -1.2640,Plg8.0000°,Azm132.0000° M_o1.30100×10^{17}
ISC I 28 06 40 09.6–.72 36.3S–.10 99.6W–.10 10 4.7b,4.0s 61 23-171
IDC I 28 06 40 07.3–1.0 36.37S 99.66W 0 4.6,4.3 **¶15979829**
ISCJB I 28 06 40 08.7–.87 36.1S–.20 99.5W–.10 10 4.7b,4.0s
NEIC I 28 06 40 08.9–.44 36.40S 99.58W 10 4.8b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=19.6km az=20.0.
ISCJB Event type se. Error ellipse: s-maj=23.3km s-min=10.6km az=18.9.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=7.9km az=201.0.
IDC II 25 17 22 14.6–5.1 41.15S 92.97W 0 4.4,4.1
¶17192852
IDC Error ellipse: s-maj=136.3km s-min=42.4km az=15.0.
IDC IV 10 09 27 26.5–3.3 36.69S 98.22W 0 4.3,4.0b
¶17200442
IDC Error ellipse: s-maj=96.1km s-min=30.3km az=31.0.
ISC IV 15 00 08 02.5–.72 35.9S–.20 101.6W–.10 10 4.1b,3.7s 14 25-155
IDC IV 15 00 08 00.8–1.2 36.00S 101.71W 0 4.4,4.0b **¶16577820**
ISCJB IV 15 00 08 01.5–.72 35.8S–.20 101.6W–.10 10 4.2b,3.8s
NEIC IV 15 00 08 02.7–.60 35.86S 101.60W 10 4.1b,3.8s
ISC Event type se.
IDC Error ellipse: s-maj=41.7km s-min=31.7km az=17.0.
ISCJB Event type se. Error ellipse: s-maj=24.9km s-min=15.4km az=1.3.
NEIC Event type se. Error ellipse: s-maj=24.9km s-min=15.4km az=179.0.
ISC IV 18 15 08 50.8–.94 36.1S–.20 101.5W–.20 10 4.6b 13 25-155
IDC IV 18 15 08 48.7–1.2 36.16S 101.53W 0 4.4,4.1b **¶16529602**
ISCJB IV 18 15 08 49.7–.90 36.1S–.10 101.4W–.20 10 4.4b,4.1b
NEIC IV 18 15 08 50.6–.58 36.12S 101.50W 10 4.6b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=38.9km s-min=29.4km az=29.0.
ISCJB Event type se. Error ellipse: s-maj=26.2km s-min=17.0km az=140.5.
NEIC Event type se. Error ellipse: s-maj=18.8km s-min=15.1km az=53.0.
ISC IV 20 15 35 32.9–.45 41.31S–.09 89.74W–.08 10 4.7b,4.1s 72 14-177
ISCJB IV 20 15 35 31.8–.36 41.28S–.06 89.65W–.10 10 4.6b,4.1s **¶16450794**
IDC IV 20 15 35 31.6–.63 41.23S 89.81W 0 4.8,4.5
BJI IV 20 15 35 32.0 41.30S 89.60W 10 4.8b,4.7s
NEIC IV 20 15 35 33.1–.33 41.28S 89.63W 10 4.7b,4.7s
GCMT IV 20 15 35 33.1–.20 41.42S 89.63W 22–1 5.0W,4.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=8.5km az=149.3.
IDC Error ellipse: s-maj=23.5km s-min=22.6km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=9.8km az=66.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s54,c65; s91,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.73±.15 $M_{\theta\theta}$1.33±.14; $M_{\phi\phi}$-0.59±.13; $M_{r\theta}$-0.34±.21; $M_{\theta\phi}$-4.38±.11; $M_{\phi r}$0.50±.21; Best double couple: NP1:ϕ_s354.00000°,δ88.00000° ,λ6.00000°. NP2:ϕ_s264.00000°,δ84.00000°,λ178.00000°. Principal axes: T 4.9100,Plg6.0000°,Azm219.0000°; N -0.7820,Plg83.0000°,Azm11.0000° ; P -4.1270,Plg3.0000°,Azm129.0000° M_o4.51900×10^{16}
ISC IV 23 17 18 03.2–.85 36.0S–.20 104.1W–.30 10 4.1b 9 38-155
ISCJB IV 23 17 18 01.6–.83 36.1S–.20 104.2W–.30 10 4.0b,3.3s **¶17201895**
IDC IV 23 17 18 01.7–.80 36.08S 104.10W 0 4.4,4.1b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=37.4km s-min=21.3km az=7.5.
IDC Error ellipse: s-maj=40.3km s-min=21.7km az=97.0.
ISC V 13 19 47 37.8–.83 36.1S–.10 98.0W–.20 10 4.3b,4.0s 24 22-142
ISCJB V 13 19 47 35.9–.63 36.1S–.10 98.1W–.10 10 4.4b,4.0s **¶16528064**
IDC V 13 19 47 36.3–1.2 36.09S 98.08W 0 4.3,4.1
NEIC V 13 19 47 38.3–.77 36.03S 97.99W 10 4.4b,4.1
GCMT V 13 19 47 38.3–.20 36.37S 98.17W 24–1 5.0W,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=14.1km az=158.9.
IDC Error ellipse: s-maj=34.8km s-min=27.4km az=61.0.
NEIC Event type se. Error ellipse: s-maj=20.9km s-min=14.5km az=224.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s39,c52; s86,c122; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.04±.13 $M_{\theta\theta}$-0.69±.12; $M_{\phi\phi}$0.72±.13; $M_{r\theta}$0.58±.16; $M_{\theta\phi}$-3.88±.12; $M_{\phi r}$0.07±.16; Best double couple: NP1:ϕ_s275.00000°,δ88.00000° ,λ-172.00000°. NP2:ϕ_s185.00000°,δ82.00000°,λ-2.00000°. Principal axes: T 3.9880,Plg5.0000°,Azm50.0000°; N -0.0040,Plg82.0000°,Azm287.0000° ; P -3.9840,Plg7.0000°,Azm140.0000° M_o3.98600×10^{16}
ISC V 20 04 38 59.7–.41 41.30S–.07 89.10W–.08 10 4.9b,4.2s 139 13-165
IDC V 20 04 38 56.9–.70 41.62S 89.21W 0 4.6,4.4 **¶16530712**
ISCJB V 20 04 38 58.2–.32 41.36S–.06 89.13W–.08 10 4.8b,4.2s
GCMT V 20 04 38 59.0–.20 41.25S 89.14W 14–0 5.0W,4.2s
NEIC V 20 04 38 59.0–.26 41.46S 89.01W 10 4.9b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=20.3km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=6.5km az=44.5.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s41,c50; s85,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-4.17±.21 $M_{\theta\theta}$-0.03±.12; $M_{\phi\phi}$4.20±.14; $M_{r\theta}$0.23±.33; $M_{\theta\phi}$-1.14±.09; $M_{\phi r}$0.12±.25; Best double couple: NP1:ϕ_s169.00000°,δ45.00000° ,λ-85.00000°. NP2:ϕ_s342.00000°,δ45.00000°,λ-95.00000°. Principal axes: T 4.4880,Plg0.0000°,Azm256.0000°; N -0.2980,Plg4.0000°,Azm346.0000° ; P -4.1860,Plg86.0000°,Azm160.0000° M_o4.33700×10^{16}
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.9km az=63.0.
ISC V 30 15 44 19.5–1.3 37.0S–.20 96.8W–.20 10 4.4b,4.0s 11 21-103
ISCJB V 30 15 44 17.6–1.1 37.1S–.20 96.9W–.20 10 4.2b,4.1s **¶16554085**
IDC V 30 15 44 17.2–2.6 37.14S 96.88W 0 4.3,4.1
GCMT V 30 15 44 19.3–.30 37.03S 96.75W 25–1 5.0W,4.1
NEIC V 30 15 44 19.3–1.5 37.04S 96.85W 10 4.6b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.1km s-min=18.1km az=37.5.
IDC Error ellipse: s-maj=65.7km s-min=25.3km az=25.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s32,c37; s77,c94; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.36±.21 $M_{\theta\theta}$-0.10±.19; $M_{\phi\phi}$0.45±.17; $M_{r\theta}$0.92±.36; $M_{\theta\phi}$-4.10±.14; $M_{\phi r}$0.72±.34; Best double couple: NP1:ϕ_s273.00000°,δ79.00000° ,λ-167.00000°. NP2:ϕ_s181.00000°,δ77.00000°,λ-11.00000°. Principal axes: T 4.2900,Plg1.0000°,Azm47.0000°; N -0.0130,Plg73.0000°,Azm312.0000° ; P -4.2770,Plg17.0000°,Azm137.0000° M_o4.28400×10^{16}
NEIC Event type se. Error ellipse: s-maj=36.7km s-min=13.9km az=209.0.
ISC V 30 22 46 35.5–1.1 36.2S–.20 100.0W–.20 14 3.9b 7 23-102
ISCJB V 30 22 46 33.5–.97 36.1S–.20 100.1W–.20 14 3.8b,3.3s **¶17204793**
IDC V 30 22 46 33.1–1.1 36.12S 100.06W 0 4.2,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.3km s-min=22.4km az=141.7.
IDC Error ellipse: s-maj=30.5km s-min=25.9km az=51.0.
ISC VI 01 15 44 51.6–2.2 36.4S–.30 100.4W–.20 14 4.5s,4.0b 11 24-144
IDC VI 01 15 44 50.9–1.1 36.13S 100.23W 0 4.4,4.3 **¶16637530**
GCMT VI 01 15 44 52.2–.50 36.43S 100.07W 22–2 5.1W,4.3
NEIC VI 01 15 44 52.2–.77 36.15S 100.19W 10 4.2b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=28.6km s-min=26.0km az=50.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s17,c18; s77,c99; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.70±.44 $M_{\theta\theta}$-1.24±.29; $M_{\phi\phi}$2.93±.32; $M_{r\theta}$0.27±.52; $M_{\theta\phi}$-5.09±.28; $M_{\phi r}$2.65±.56; Best double couple: NP1:ϕ_s188.00000°,δ82.00000° ,λ-29.00000°. NP2:ϕ_s282.00000°,δ61.00000°,λ-171.00000°. Principal axes: T 6.8520,Plg14.0000°,Azm238.0000°; N -1.3660,Plg60.0000°,Azm353.0000° ; P -5.4960,Plg26.0000°,Azm141.0000° M_o6.17400×10^{16}
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=17.8km az=191.0.
ISC VI 02 08 14 12.6–.85 41.3S–.10 90.4W–.20 10 4.3b,3.7s 14 15-162
IDC VI 02 08 14 10.2–1.8 41.49S 90.47W 0 4.3,4.1 **¶16856088**
ISCJB VI 02 08 14 11.4–.90 41.3S–.10 90.4W–.20 10 4.3b,3.7s
NEIC VI 02 08 14 12.5–.66 41.27S 90.47W 10 4.4b,3.7s
ISC Event type se.
IDC Error ellipse: s-maj=49.1km s-min=28.9km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=20.1km s-min=16.6km az=4.3.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=15.4km az=116.0.
ISC VI 07 12 22 34.8–.74 37.1S–.10 96.0W–.20 10 4.6b,3.6s 31 20-148
IDC VI 07 12 22 32.9–1.1 37.12S 96.12W 0 4.8,4.5b **¶16578077**
ISCJB VI 07 12 22 33.4–.65 37.0S–.10 96.0W–.20 10 4.6b,3.5s
NEIC VI 07 12 22 34.8–.43 37.09S 96.04W 10 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=30.3km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=20.5km s-min=16.3km az=161.4.
NEIC Event type se. Error ellipse: s-maj=14.9km s-min=11.5km az=80.0.

SEISMIC REGION 44.
Galapagos Area.

(693) Eastcentral Pacific Ocean.

ISC II 08 11 46 50.2–1.3 4.9N–.30 98.3W–.40 10 3.7b 10 22-151
IDC II 08 11 46 48.4–1.2 4.83N 98.35W 0 4.1,3.8 **¶17191894**
ISC Event type ke.
IDC Error ellipse: s-maj=74.1km s-min=23.5km az=61.0.

(694) Central East Pacific Rise.

IDC I 27 23 31 18.4–14 2.93S 104.51W 0 3.6,3.5
¶17191157
IDC Error ellipse: s-maj=485.5km s-min=173.8km az=117.0.
IDC II 02 06 04 02.1–6.8 3.72S 104.53W 0 3.9,3.8
GCMT II 02 06 04 00.0–.80 4.59S 104.81W 29–2 4.9W,3.8 **¶16009341**
IDC Error ellipse: s-maj=220.3km s-min=143.5km az=89.0.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c22; s68,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.31±.19 $M_{\theta\theta}$0.33±.15; $M_{\phi\phi}$-0.02±.17; $M_{r\theta}$0.20±.25; $M_{\theta\phi}$2.59±.14; $M_{\phi r}$-0.43±.24; Best double couple: NP1:ϕ_s3.00000°,δ84.00000° ,λ-170.00000°. NP2:ϕ_s271.00000°,δ80.00000°,λ-6.00000°. Principal axes: T 2.7570,Plg3.0000°,Azm137.0000°; N -0.2220,Plg78.0000°,Azm34.0000° ; P -2.5340,Plg11.0000°,Azm227.0000° M_o2.64500×10^{16}
IDC II 05 10 57 38.2–11 6.63S 101.26W 0 3.9,3.7
¶17191731
IDC Error ellipse: s-maj=463.7km s-min=126.6km az=109.0.
IDC II 16 23 51 25.8–2.6 4.95S 105.64W 0 4.0s,4.0
GCMT II 16 23 51 36.0–.50 4.55S 105.99W 15 4.9W,4.0 **¶16176397**
IDC Error ellipse: s-maj=194.1km s-min=67.5km az=78.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s12,c12; s75,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.21±.10 $M_{\theta\theta}$0.84±.09; $M_{\phi\phi}$-0.62±.09; $M_{r\theta}$1.67±.32; $M_{\theta\phi}$1.92±.07; $M_{\phi r}$0.05±.32; Best double couple: NP1:ϕ_s278.00000°,δ89.00000° ,λ-39.00000°. NP2:ϕ_s9.00000°,δ51.00000°,λ-179.00000°. Principal axes: T 2.8440,Plg26.0000°,Azm331.0000°; N -0.4290,Plg51.0000°,Azm98.0000° ; P -2.4150,Plg27.0000°,Azm227.0000° M_o2.63000×10^{16}
ISC II 26 17 17 53.7–.33 9.23S–.07 109.68W–.07 20 5.2b,5.0s 804 21-159
IDC II 26 17 17 50.5–.75 9.16S 109.77W 0 4.8s,4.8 **¶602357348**
MOS II 26 17 17 51.6–1.1 9.02S 109.49W 10 5.3b,4.8
ISCJB II 26 17 17 51.8–.26 9.16S–.03 109.66W–.04 20 5.2b,4.9s
NEIC II 26 17 17 52.1–.21 9.23S 109.61W 10 5.2b,4.9s
GCMT II 26 17 17 52.1–.10 9.17S 109.73W 14–0 5.4W,4.9s
BJI II 26 17 17 53.2 9.20S 109.60W 10 5.7b,5.6s
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=15.0km az=57.0.
MOS Error ellipse: s-maj=15.4km s-min=5.9km az=87.9.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.2km az=148.6.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.1km az=62.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s93,c163; s122,c221; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.21±.02 $M_{\theta\theta}$0.85±.02; $M_{\phi\phi}$-0.64±.02; $M_{r\theta}$0.01±.03; $M_{\theta\phi}$1.36±.02; $M_{\phi r}$0.06±.04; Best double couple: NP1:ϕ_s194.00000°,δ89.00000° ,λ-177.00000°. NP2:ϕ_s104.00000°,δ87.00000°,λ-1.00000°. Principal axes: T 1.6590,Plg1.0000°,Azm329.0000°; N -0.2070,Plg87.0000°,Azm207.0000° ; P -1.4510,Plg2.0000°,Azm59.0000° M_o1.55500×10^{17}
IDC III 01 04 16 13.4–12 8.94S 108.66W 0 3.9,3.6
¶17193038
IDC Error ellipse: s-maj=336.7km s-min=141.7km az=143.0.
ISC III 05 17 01 13.1–1.5 13.8S–.30 111.5W–.20 10 4.4b,4.2s 14 24-150
NEIC III 05 17 01 13.0–1.1 13.84S 111.58W 10 4.7b,4.2s **¶16298660**
IDC III 05 17 01 12.7–1.7 13.74S 111.61W 0 4.2,4.1s
ISCJB III 05 17 01 12.6–2.4 13.7S–.30 111.5W–.30 10 4.2s,4.1b
GCMT III 05 17 01 13.0–.20 13.47S 111.29W 19–1 5.0W,4.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=34.8km s-min=20.8km az=223.0.
IDC Error ellipse: s-maj=54.3km s-min=32.2km az=48.0.
ISCJB Event type se. Error ellipse: s-maj=62.1km s-min=19.2km az=40.2.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c49; s99,c132; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.83±.12 $M_{\theta\theta}$1.80±.12; $M_{\phi\phi}$-0.97±.11; $M_{r\theta}$-0.21±.21; $M_{\theta\phi}$3.35±.10; $M_{\phi r}$0.27±.23; Best double couple: NP1:ϕ_s101.00000°,δ85.00000° ,λ-6.00000°. NP2:ϕ_s192.00000°,δ84.00000°,λ-175.00000°. Principal axes: T 4.0390,Plg0.0000°,Azm146.0000°; N -0.7820,Plg82.0000°,Azm238.0000° ; P -3.2610,Plg8.0000°,Azm56.0000° M_o3.65000×10^{16}
IDC III 23 08 01 03.8–9.8 7.27S 103.73W 0 4.1,3.8b
¶17198150
IDC Error ellipse: s-maj=321.8km s-min=164.8km az=115.0.
IDC III 23 10 08 50.2–4.9 9.12S 108.03W 0 4.1,4.0
¶17198168
IDC Error ellipse: s-maj=266.5km s-min=62.0km az=104.0.
IDC III 24 03 14 45.3–18 9.41S 108.00W 0 3.6,3.5
¶17198277
IDC Error ellipse: s-maj=639.0km s-min=205.7km az=121.0.
ISC IV 06 08 42 58.1–1.2 9.0S–.20 109.9W–.40 10 4.1s,3.8b 10 28-150
ISCJB IV 06 08 42 56.6–1.8 9.0S–.30 109.8W–.60 10 4.1s,3.7b **¶16462808**
IDC IV 06 08 42 56.6–1.2 8.99S 109.89W 0 4.1s,4.1
GCMT IV 06 08 42 56.0–.30 9.01S 109.29W 19–1 4.9W,4.1
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=92.7km s-min=21.1km az=158.6.
IDC Error ellipse: s-maj=54.6km s-min=28.7km az=79.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s25,c26; s91,c118; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.37±.11 $M_{\theta\theta}$0.96±.10; $M_{\phi\phi}$-0.59±.11; $M_{r\theta}$0.72±.21; $M_{\theta\phi}$2.67±.10; $M_{\phi r}$0.22±.21; Best double couple: NP1:ϕ_s98.00000°,δ87.00000° ,λ13.00000°. NP2:ϕ_s8.00000°,δ77.00000°,λ176.00000°. Principal axes: T 3.1110,Plg12.0000°,Azm324.0000°; N -0.4870,Plg77.0000°,Azm113.0000° ; P -2.6240,Plg7.0000°,Azm232.0000° M_o2.86800×10^{16}

IDC IV 16 07 33 31.6–3.0 3.87S 103.73W 0 3.9,3.7
¶17201198
IDC Error ellipse: s-maj=246.4km s-min=31.3km az=68.0.
ISC IV 26 10 43 08.3–.55 13.3S–.10 111.3W–.10 11 4.9s,4.7b 100 24-151
ISCJB IV 26 10 43 06.4–.67 13.37S–.09 111.3W–.10 11 4.9s,4.6b **¶16476088**
IDC IV 26 10 43 06.7–1.0 13.23S 111.29W 0 4.8s,4.8
NEIC IV 26 10 43 07.5–.46 13.38S 111.30W 10 4.8b,4.8
GCMT IV 26 10 43 07.5–.10 13.52S 111.21W 15 5.5W,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.3km s-min=11.0km az=154.1.
IDC Error ellipse: s-maj=37.8km s-min=19.4km az=52.0.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=10.3km az=71.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s99,c172; s120,c226; Duration: 1τ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.13±.02 $M_{\theta\theta}$0.82±.02; $M_{\phi\phi}$-0.68±.03; $M_{r\theta}$-0.22±.06; $M_{\theta\phi}$1.62±.02; $M_{\phi r}$0.56±.07; Best double couple: NP1:ϕ_s194.00000°,δ80.00000°,λ-164.00000°. NP2:ϕ_s101.00000°,δ75.00000°,λ-11.00000°. Principal axes: T 1.8600,Plg3.0000°,Azm327.0000°; N 0.0550,Plg71.0000°,Azm227.0000°; P -1.9170,Plg18.0000°,Azm58.0000° $M_0$1.88900×10^{17}
ISC V 10 15 05 22.4–.47 4.73S–.09 105.66W–.09 13 5.2s,4.9b 214 24-152
ISCJB V 10 15 05 19.7–.51 4.92S–.07 105.57W–.06 13 5.2s,4.8b **¶16505607**
IDC V 10 15 05 21.1–.98 4.68S 105.68W 0 5.1s,5.1
BJI V 10 15 05 21.8 4.80S 105.60W 10 5.6s,5.4
GCMT V 10 15 05 22.2–.10 4.57S 105.64W 16–0 5.5W,5.4
NEIC V 10 15 05 22.2–.40 4.74S 105.59W 10 5.2s,5.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=7.9km az=6.5.
IDC Error ellipse: s-maj=36.5km s-min=15.0km az=61.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s92,c162; s123,c242; Duration: 1τ4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.03 $M_{\theta\theta}$0.73±.03; $M_{\phi\phi}$-0.87±.04; $M_{r\theta}$0.03±.08; $M_{\theta\phi}$2.01±.03; $M_{\phi r}$0.08±.09; Best double couple: NP1:ϕ_s11.00000°,δ89.00000°,λ178.00000°. NP2:ϕ_s101.00000°,δ88.00000°,λ1.00000°. Principal axes: T 2.0950,Plg2.0000°,Azm326.0000°; N 0.1390,Plg88.0000°,Azm173.0000°; P -2.2350,Plg1.0000°,Azm56.0000° $M_0$2.16500×10^{17}
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=6.7km az=52.0.
ISC V 10 16 45 45.0–.41 4.77S–.08 105.59W–.08 10 5.0s,5.0b 418 23-152
ISCJB V 10 16 45 43.2–.38 4.81S–.05 105.60W–.04 10 5.1s,4.9b **¶16503287**
IDC V 10 16 45 43.4–.82 4.71S 105.75W 0 5.0s,5.0
MOS V 10 16 45 44.0–1.1 4.63S 105.37W 10 5.2b,5.0
GCMT V 10 16 45 45.1–.10 4.61S 105.55W 16–0 5.5W,5.0
NEIC V 10 16 45 45.1–.31 4.70S 105.52W 10 5.0b,5.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=5.2km az=27.7.
IDC Error ellipse: s-maj=29.7km s-min=15.8km az=56.0.
MOS Error ellipse: s-maj=18.4km s-min=6.8km az=97.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s90,c154; s129,c247; Duration: 1τ3 Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.03 $M_{\theta\theta}$0.72±.03; $M_{\phi\phi}$-0.75±.03; $M_{r\theta}$0.04±.07; $M_{\theta\phi}$1.86±.03; $M_{\phi r}$-0.21±.07; Best double couple: NP1:ϕ_s11.00000°,δ88.00000°,λ-174.00000°. NP2:ϕ_s281.00000°,δ84.00000°,λ-2.00000°. Principal axes: T 1.9900,Plg2.0000°,Azm146.0000°; N 0.0440,Plg84.0000°,Azm31.0000°; P -2.0340,Plg5.0000°,Azm236.0000° $M_0$2.01200×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=5.6km az=52.0.
ISC V 22 14 48 49.3–.86 4.3S–.10 105.4W–.10 13 4.2b,4.2s 15 23-152
IDC V 22 14 48 42.8–1.6 4.92S 106.40W 0 4.3s,4.3 **¶16545177**
GCMT V 22 14 48 44.6–.30 4.63S 105.45W 26–1 5.1W,4.3
NEIC V 22 14 48 44.6–1.4 4.88S 106.21W 10 4.5b,4.3
ISCJB V 22 14 48 47.9–.77 4.2S–.10 105.4W–.10 13 4.2s,4.1b
ISC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s28,c35; s91,c125;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.34±.20 $M_{\theta\theta}$1.37±.16; $M_{\phi\phi}$-1.02±.17; $M_{r\theta}$-0.25±.32; $M_{\theta\phi}$4.93±.14; $M_{\phi r}$-1.05±.30; Best double couple: NP1:ϕ_s187.00000°,δ90.00000°,λ168.00000°. NP2:ϕ_s277.00000°,δ78.00000°,λ0.00000°. Principal axes: T 5.3750,Plg9.0000°,Azm141.0000°; N -0.3740,Plg78.0000°,Azm6.0000°; P -4.9950,Plg8.0000°,Azm233.0000° $M_0$5.18500×10^{16}
NEIC Event type se.
ISCJB Event type se.
IDC VI 14 04 57 52.0–13 9.35S 107.81W 0 3.7,3.6
¶17206087
IDC Error ellipse: s-maj=508.2km s-min=100.8km az=122.0.
ISC VI 14 09 50 08.0–1.2 9.7S–.20 109.5W–.30 10 3.7s,3.7b 7 39-99
ISCJB VI 14 09 50 06.4–1.0 9.6S–.20 109.6W–.30 10 3.7s,3.6b **¶17206105**
IDC VI 14 09 50 06.4–1.2 9.70S 109.54W 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=38.0km s-min=21.4km az=165.0.
IDC Error ellipse: s-maj=46.2km s-min=26.1km az=75.0.

(695) West of Galapagos Islands.
IDC I 16 06 27 01.1–4.5 1.91N 97.70W 0 3.8,3.7
¶17190299
IDC Error ellipse: s-maj=171.2km s-min=46.1km az=47.0.
IDC IV 26 03 23 41.9–12 0.77N 97.86W 0 4.0,3.6
¶17202105
IDC Error ellipse: s-maj=548.4km s-min=210.5km az=70.0.

(757) Galapagos Triple Junction region.
ISC I 13 06 03 34.5–.78 3.1N–.10 104.0W–.20 10 4.4b,3.9s 27 15-149
ISCJB I 13 06 03 32.8–.99 3.0N–.10 104.1W–.20 10 4.3b,3.9s **¶15940513**
IDC I 13 06 03 32.5–.73 3.03N 104.19W 0 4.5,4.3
NEIC I 13 06 03 34.1–.54 2.98N 104.11W 10 4.7b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=30.0km s-min=11.0km az=153.2.
IDC Error ellipse: s-maj=39.1km s-min=14.9km az=60.0.
NEIC Event type se. Error ellipse: s-maj=20.0km s-min=10.4km az=63.0.
ISC IV 05 00 59 10.4–.53 2.04N–.08 101.98W–.08 10 4.7b,4.4s 424 12-151
IDC IV 05 00 59 07.8–.74 1.97N 102.16W 0 4.6,4.5b **¶16413202**
ISCJB IV 05 00 59 09.3–.41 2.17N–.05 101.81W–.05 10 4.7b,4.4s
NEIC IV 05 00 59 09.8–.30 1.94N 101.98W 10 4.8b,4.4s
GCMT IV 05 00 59 09.8–.20 1.92N 102.23W 12 5.2W,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=13.5km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.0km az=40.5.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=4.4km az=53.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s65,c92; s96,c152; Duration: 1τ0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.02 $M_{\theta\theta}$-0.66±.01; $M_{\phi\phi}$0.82±.02; $M_{r\theta}$-0.09±.04; $M_{\theta\phi}$0.39±.01; $M_{\phi r}$-0.03±.04; Best double couple: NP1:ϕ_s58.00000°,δ86.00000°,λ-7.00000°. NP2:ϕ_s149.00000°,δ83.00000°,λ-176.00000°. Principal axes: T 0.9190,Plg2.0000°,Azm104.0000°; N -0.1470,Plg82.0000°,Azm211.0000°; P -0.7710,Plg8.0000°,Azm14.0000° $M_0$0.84500×10^{17}
ISC IV 05 01 37 41.8–1.5 1.9N–.20 102.3W–.30 10 4.1b,3.9s 13 17-151
IDC IV 05 01 37 40.0–1.6 1.73N 102.43W 0 4.2,4.0b **¶16413206**
NEIC IV 05 01 37 41.2–1.1 1.67N 102.43W 10 4.6b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=58.3km s-min=17.9km az=51.0.
NEIC Event type se. Error ellipse: s-maj=32.0km s-min=13.3km az=51.0.
ISC V 01 19 44 11.4–.74 2.2N–.10 101.1W–.20 10 4.5b,3.4s 217 16-152
ISCJB V 01 19 44 09.3–.71 2.08N–.09 101.18W–.07 10 4.5b,3.5s **¶16684742**
IDC V 01 19 44 10.3–.94 2.27N 100.87W 0 4.5,4.2b
NEIC V 01 19 44 11.8–.47 2.27N 101.07W 10 4.6b,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=9.0km az=17.7.
IDC Error ellipse: s-maj=50.4km s-min=26.5km az=90.0.
NEIC Event type se. Error ellipse: s-maj=14.1km s-min=8.3km az=53.0.

SEISMIC REGION 45.
Macquarie Loop.

(701) West of Macquarie Island.
ISC I 03 16 43 28.8–.37 59.79S–.06 150.27E–.07 10 5.3s,5.0b 134 7-165
BJI I 03 16 43 26.3 59.90S 149.90E 10 5.6b,5.6b **¶15902935**
ISCJB I 03 16 43 27.4–.32 59.78S–.04 150.0E–.10 10 5.3s,4.9b
IDC I 03 16 43 27.4–.59 59.67S 150.00E 0 5.0s,5.0
GCMT I 03 16 43 28.7–.10 59.60S 149.85E 15–1 5.6W,5.0
NEIC I 03 16 43 28.7–.27 59.79S 149.90E 10 5.3s,5.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=6.1km az=0.8.
IDC Error ellipse: s-maj=24.2km s-min=15.4km az=92.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s95,c165; s111,c267;Duration: 1τ5 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{\theta\theta}$1.68±.04; $M_{\phi\phi}$-1.53±.03; $M_{r\theta}$-0.23±.07; $M_{\theta\phi}$-2.28±.03; $M_{\phi r}$-0.10±.06; Best double couple: NP1: ϕ_s72.00000°,δ89.00000°,λ-175.00000°. NP2:ϕ_s342.00000°,δ85.00000°,λ-1.00000°. Principal axes: T 2.8720,Plg3.0000°,Azm207.0000°; N -0.1500,Plg85.0000°,Azm82.0000°; P -2.7280,Plg4.0000°,Azm298.0000° $M_0$2.80000×10^{17}
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.3km az=99.0.
ISC I 04 06 06 04.5–.34 52.24S–.06 139.82E–.08 10 5.1b,4.9s 119 18-156
IDC I 04 06 06 02.0–.44 52.11S 139.73E 0 4.9,4.8 **¶16021249**
ISCJB I 04 06 06 02.3–.31 52.19S–.05 139.53E–.09 10 5.0b,4.8s
NEIC I 04 06 06 04.9–5.8 52.08S 139.51E 16–35 5.1b,4.8s
GCMT I 04 06 06 04.9–.10 52.11S 139.55E 12 5.4W,4.8s
BJI I 04 06 06 04.6 52.00S 139.60E 10 5.4b,5.3s
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=11.8km az=86.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=7.3km az=152.5.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=8.8km az=53.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s92,c144; s116,c212; Duration: 1τ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.25±.02 $M_{\theta\theta}$0.32±.02; $M_{\phi\phi}$-0.07±.02; $M_{r\theta}$-0.22±.06; $M_{\theta\phi}$-1.73±.02; $M_{\phi r}$-0.07±.06; Best double couple: NP1:ϕ_s87.00000°,δ87.00000°,λ-172.00000°. NP2:ϕ_s357.00000°,δ82.00000°,λ-3.00000°. Principal axes: T 1.8740,Plg3.0000°,Azm222.0000°; N -0.2300,Plg81.0000°,Azm110.0000°; P -1.6440,Plg8.0000°,Azm312.0000° $M_0$1.75900×10^{17}
IDC I 04 06 55 59.0–2.8 52.15S 140.42E 0 4.0,3.8
¶17189397
IDC Error ellipse: s-maj=146.9km s-min=45.7km az=89.0.
IDC I 06 19 14 08.8–1.8 54.30S 144.33E 0 3.9,3.7
¶17189607
IDC Error ellipse: s-maj=207.1km s-min=25.8km az=79.0.
ISC I 06 19 31 16.2–1.3 56.4S–.20 144.2E–1.0 10 4.2b,3.2s 11 21-151
IDC I 06 19 31 14.8–1.3 56.40S 143.92E 0 4.2,4.1b **¶16032749**
NEIC I 06 19 31 16.2–1.0 56.39S 144.00E 10 4.2b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=130.1km s-min=18.9km az=82.0.
NEIC Event type se. Error ellipse: s-maj=106.0km s-min=13.6km az=81.0.
ISC I 12 13 05 11.8–.41 57.41S–.07 147.81E–.09 10 5.0b,4.9s 172 15-155
IDC I 12 13 05 08.5–.56 57.10S 148.36E 0 4.8s,4.8 **¶15922058**
ISCJB I 12 13 05 09.5–.46 57.39S–.06 147.3E–.10 10 5.0b,4.8s
NEIC I 12 13 05 11.2–.42 57.32S 147.56E 10 5.2b,4.8s
GCMT I 12 13 05 11.1–.10 57.39S 147.43E 12 5.4W,4.8s
BJI I 12 13 05 12.0 57.06S 147.77E 8 5.8b,5.6b
MOS I 12 13 05 16.8–3.0 56.66S 149.04E 33 4.5b,5.6b
ISC Event type se.
IDC Error ellipse: s-maj=31.3km s-min=15.8km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=8.1km az=168.1.
NEIC Event type se. Error ellipse: s-maj=17.4km s-min=9.8km az=84.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tension Solution. s95,c152; s107,c198; Duration: 1τ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.02±.02 $M_{\theta\theta}$0.74±.02; $M_{\phi\phi}$-0.72±.02; $M_{r\theta}$-0.31±.05; $M_{\theta\phi}$-1.46±.02; $M_{\phi r}$-0.23±.05; Best double couple: NP1:ϕ_s77.00000°,δ85.00000°,λ-168.00000°. NP2:ϕ_s346.00000°,δ78.00000°,λ-5.00000°. Principal axes: T 1.6560,Plg5.0000°,Azm211.0000°; N 0.0460,Plg77.0000°,Azm99.0000°; P -1.7030,Plg12.0000°,Azm302.0000° $M_0$1.67900×10^{17}
MOS Error ellipse: s-maj=58.2km s-min=11.5km az=96.4.
ISC I 12 13 43 57.1–.83 52.8S–.10 140.0E–.40 10 4.1b,3.9s 12 20-147
ISCJB I 12 13 43 55.7–.82 52.7S–.10 140.1E–.90 10 4.1b,3.9s **¶15998115**
IDC I 12 13 43 56.0–.91 52.77S 139.66E 0 4.3,4.1
NEIC I 12 13 43 57.1–.56 52.80S 139.79E 10 4.4b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=77.2km s-min=12.7km az=173.5.
IDC Error ellipse: s-maj=67.4km s-min=18.9km az=83.0.
NEIC Event type se. Error ellipse: s-maj=43.8km s-min=11.5km az=83.0.
ISC I 12 18 56 09.5–.83 52.7S–.10 140.8E–.20 10 4.3b,4.0s 12 21-153
ISCJB I 12 18 56 07.6–.81 52.69S–.09 140.7E–.30 10 4.3b,3.8s **¶16151181**
IDC I 12 18 56 08.2–.80 52.72S 140.83E 0 4.4,4.3
NEIC I 12 18 56 10.3–.68 52.72S 140.77E 10 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=28.7km s-min=13.0km az=171.2.
IDC Error ellipse: s-maj=34.9km s-min=17.2km az=86.0.
NEIC Event type se. Error ellipse: s-maj=26.8km s-min=14.4km az=85.0.
ISC I 26 00 20 20.3–.53 53.0S–.10 140.8E–.10 10 4.8b,3.9s 35 19-153
ISCJB I 26 00 20 18.4–.55 52.91S–.08 140.9E–.10 10 4.8b,3.9s **¶16135818**
IDC I 26 00 20 19.3–.66 52.86S 140.81E 0 4.5,4.3
NEIC I 26 00 20 20.1–.39 52.95S 140.77E 10 4.9b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=11.6km az=174.3.
IDC Error ellipse: s-maj=30.9km s-min=22.3km az=75.0.
NEIC Event type se. Error ellipse: s-maj=12.5km s-min=11.5km az=92.0.
ISC II 04 08 06 57.5–.39 59.37S–.06 149.66E–.09 10 4.9b,4.7s 100 7-155
ISCJB II 04 08 06 55.9–.34 59.35S–.05 149.1E–.10 10 4.9b,4.7s **¶16005324**
IDC II 04 08 06 55.7–.62 59.21S 149.26E 0 4.7s,4.7
NEIC II 04 08 06 57.8–.35 59.30S 149.14E 10 4.9b,4.7
GCMT II 04 08 06 57.8–.10 59.22S 149.04E 12 5.3W,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.4km az=16.8.
IDC Error ellipse: s-maj=24.6km s-min=16.3km az=102.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=7.7km az=117.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c106; s99,c172; Duration: 1τ1 Moment tensor: Scale 10^{17}Nm; M_{rr}0.04±.02 $M_{\theta\theta}$0.51±.02; $M_{\phi\phi}$-0.55±.02; $M_{r\theta}$-0.30±.04; $M_{\theta\phi}$-0.94±.01; $M_{\phi r}$-0.06±.04; Best double couple: NP1:ϕ_s255.00000°,δ88.00000°,λ164.00000°. NP2:ϕ_s346.00000°,δ74.00000°,λ2.00000°. Principal axes: T 1.1040,Plg12.0000°,Azm209.0000°; N 0.0280,Plg74.0000°,Azm69.0000°; P -1.1320,Plg10.0000°,Azm301.0000° $M_0$1.11800×10^{17}
IDC II 20 21 00 32.7–3.1 55.82S 147.53E 0 4.3,4.0
¶17192602
IDC Error ellipse: s-maj=204.6km s-min=44.7km az=81.0.
IDC III 15 05 56 41.8–5.0 57.37S 149.42E 0 3.9s,3.9
¶17196049
IDC Error ellipse: s-maj=430.6km s-min=26.1km az=76.0.
IDC III 19 17 36 04.8–3.2 55.95S 147.05E 0 4.1,3.9s
¶17197286
IDC Error ellipse: s-maj=157.2km s-min=40.5km az=85.0.
ISC III 21 19 20 40.1–1.1 56.1S–.10 147.8E–.40 10 4.4b,3.9s 18 19-153
IDC III 21 19 20 38.0–1.5 55.93S 148.55E 0 4.5,4.3b **¶16480053**
NEIC III 21 19 20 39.8–.89 56.08S 147.86E 10 4.4b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=94.8km s-min=21.8km az=79.0.
NEIC Event type se. Error ellipse: s-maj=54.4km s-min=12.7km az=79.0.
IDC IV 19 21 52 48.7–3.9 57.90S 149.72E 0 3.8,3.6
¶17201546
IDC Error ellipse: s-maj=278.1km s-min=27.7km az=77.0.
IDC IV 21 20 42 16.4–3.3 56.36S 146.71E 0 3.9,3.7
¶17201742
IDC Error ellipse: s-maj=220.6km s-min=46.9km az=85.0.
IDC IV 25 05 05 47.5–1.4 53.27S 141.30E 0 3.9,3.8
¶17202018
IDC Error ellipse: s-maj=119.6km s-min=23.5km az=83.0.
ISC V 09 18 54 43.8–1.0 56.65S–.05 147.71E–.06 9–5 5.7s,5.6b 552 7-170
BJI V 09 18 54 41.5 56.60S 147.80E 5 6.0b,5.8s **¶16501969**
ISCJB V 09 18 54 42.3–.22 56.67S–.03 147.39E–.06 10 5.7s,5.5b

IDC V 09 18 54 42.1–.38 56.69S 147.36E 0 5.7,5.7s
NEIC V 09 18 54 42.0–.00 57.21S 146.84E 15 5.7,5.7s
GCMT V 09 18 54 43.7–.10 56.74S 147.32E 12 5.9W,5.7s
NEIC V 09 18 54 43.7–.18 56.65S 147.41E 9 5.9W,5.8W
MOS V 09 18 54 45.1–1.6 56.61S 148.12E 10 5.7b,5.7s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=4.4km az=164.5.
IDC Error ellipse: s-maj=17.6km s-min=12.0km az=92.0.
NEIC Event type se. Moment Tensor Solution. s6 Moment tensor: Scale 10^{17}Nm; M_{rr}1.94 $M_{\theta\theta}$3.21 $M_{\phi\phi}$-5.14 $M_{r\theta}$1.84 $M_{\theta\phi}$-6.87 $M_{\phi r}$2.80 Best double couple: NP1:ϕ_s255.00000° ,δ81.00000°,λ-166.00000°. NP2:ϕ_s163.00000°,δ77.00000°,λ-9.00000°. Principal axes: T 7.0800,Plg2.0000°,Azm28.0000°; N 2.8600,Plg74.0000°,Azm288.0000° ; P -9.9400,Plg15.0000°,Azm119.0000° $M_0$8.90000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s125,c263; s130,c417;Duration: 2s2 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.05±.01 $M_{\theta\theta}$0.44±.01; $M_{\phi\phi}$-0.38±.01; $M_{r\theta}$0.02±.02; $M_{\theta\phi}$-0.87±.01; $M_{\phi r}$-0.09±.02; Best double couple: NP1:ϕ_s347.00000°,δ89.00000°,λ-5.00000°. NP2:ϕ_s77.00000° ,δ85.00000°,λ-179.00000°. Principal axes: T 0.9960,Plg3.0000°,Azm33.0000° ; N -0.0530,Plg85.0000°,Azm160.0000°; P -0.9430,Plg4.0000°,Azm302.0000° $M_0$0.97000×10^{18}
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.2km az=139.0. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s15 Moment tensor: Scale 10^{17}Nm; M_{rr}0.95 $M_{\theta\theta}$1.58 $M_{\phi\phi}$-2.53 $M_{r\theta}$3.08 $M_{\theta\phi}$-6.31 $M_{\phi r}$-0.69 Best double couple: NP1: ϕ_s79.00000°,δ80.00000°,λ156.00000°. NP2:ϕ_s173.00000°,δ66.00000°,λ11.00000°. Principal axes: T 7.4800,Plg24.0000°,Azm34.0000°; N -0.1600,Plg64.0000°,Azm237.0000° ; P -7.3200,Plg9.0000°,Azm128.0000° $M_0$7.40000×10^{17}
MOS Error ellipse: s-maj=27.7km s-min=8.3km az=91.0.
ISC V 19 20 47 12.5–.66 57.1S–.10 147.9E–.20 10 4.4b 21 20-153
ISCJB V 19 20 47 10.2–.61 57.17S–.08 147.9E–.30 10 4.4b,4.2s **¶16710329**
IDC V 19 20 47 10.8–.88 57.15S 147.89E 0 4.3,4.3
NEIC V 19 20 47 12.4–.46 57.13S 147.79E 10 4.8b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=26.7km s-min=10.8km az=168.8.
IDC Error ellipse: s-maj=40.1km s-min=22.1km az=80.0.
NEIC Event type se. Error ellipse: s-maj=24.8km s-min=9.6km az=78.0.
IDC V 20 10 00 53.3–24 54.44S 141.29E 0 4.1,3.9b
¶17204028
IDC Error ellipse: s-maj=435.1km s-min=142.1km az=144.0.
ISC V 20 11 10 11.9–.43 53.62S–.07 141.0E–.10 10 4.7b,3.8s 73 19-153
ISCJB V 20 11 10 10.2–.42 53.62S–.05 140.8E–.10 10 4.7b,3.8s **¶16531781**
IDC V 20 11 10 10.0–.64 53.65S 140.72E 0 4.7,4.5b
NEIC V 20 11 10 11.4–.28 53.65S 140.80E 10 4.8b,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=7.5km az=12.6.
IDC Error ellipse: s-maj=24.4km s-min=19.3km az=88.0.
NEIC Event type se. Error ellipse: s-maj=9.0km s-min=7.2km az=86.0.
ISC V 20 11 29 12.5–.57 53.64S–.09 140.7E–.20 10 4.7b,3.7s 44 19-152
ISCJB V 20 11 29 11.0–.55 53.62S–.07 140.7E–.20 10 4.7b,3.8s **¶16545174**
IDC V 20 11 29 10.8–.67 53.64S 140.56E 0 4.7,4.6
NEIC V 20 11 29 12.5–.34 53.62S 140.66E 10 4.9b,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.3km s-min=10.3km az=177.5.
IDC Error ellipse: s-maj=31.0km s-min=18.3km az=77.0.
NEIC Event type se. Error ellipse: s-maj=14.7km s-min=7.7km az=88.0.
ISC V 20 15 36 15.2–1.1 53.6S–.20 141.0E–.20 10 4.0b,3.4s 9 22-148
ISCJB V 20 15 36 13.7–1.0 53.6S–.10 141.1E–.40 10 4.0b,3.4s **¶17204053**
IDC V 20 15 36 13.8–1.1 53.59S 141.06E 0 4.3,4.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=33.0km s-min=16.6km az=161.4.
IDC Error ellipse: s-maj=40.4km s-min=21.1km az=75.0.
ISC V 21 19 28 48.3–.74 53.63S–.10 141.3E–.20 10 4.7b,3.4s 23 19-71
ISCJB V 21 19 28 46.2–.49 53.59S–.07 141.1E–.20 10 4.5b,3.4s **¶16710543**
IDC V 21 19 28 46.9–1.4 53.62S 141.01E 0 4.2,4.0b
NEIC V 21 19 28 48.3–.44 53.60S 141.13E 10 4.7b,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.8km s-min=9.4km az=177.2.
IDC Error ellipse: s-maj=147.5km s-min=22.5km az=81.0.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=8.3km az=81.0.
IDC V 22 05 28 23.0–1.5 53.73S 140.38E 0 3.8,3.7
¶17204191
IDC Error ellipse: s-maj=165.0km s-min=23.0km az=82.0.
IDC V 22 06 21 38.7–1.4 53.61S 140.50E 0 4.0,3.8
¶17204197
IDC Error ellipse: s-maj=93.9km s-min=22.2km az=84.0.
IDC V 27 13 47 13.8–1.6 56.20S 146.68E 0 4.0,3.9
¶17204571
IDC Error ellipse: s-maj=165.1km s-min=23.5km az=79.0.
IDC V 30 13 38 05.5–2.9 58.11S 149.62E 0 3.7,3.7b
¶17204765
IDC Error ellipse: s-maj=215.0km s-min=27.6km az=76.0.
ISC VI 05 11 51 13.6–.51 55.84S–.04 147.24E–.04 14–2 6.4s,5.9b 1201 7-166
BJI VI 05 11 51 10.8 56.00S 146.55E 10 6.4s,6.2 **¶602897565**
IDC VI 05 11 51 10.5–.36 55.78S 146.80E 0 6.2,6.2s
ISCJB VI 05 11 51 11.1–.17 55.89S–.03 146.78E–.05 10 6.4s,5.8b
GCMT VI 05 11 51 12.0–.00 56.00S 146.91E 12 6.4W,5.8b
NEIC VI 05 11 51 12.0–.00 55.94S 146.59E 15 6.4W,5.8b
NEIC VI 05 11 51 12.0–.12 55.84S 146.62E 3 6.4s,6.4W
MOS VI 05 11 51 12.4–1.9 55.80S 146.66E 10 6.3s,5.7b
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=13.0km az=103.0.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=4.0km az=176.5.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s139,c343; s140,c592;Duration: 4s0 Moment tensor: Scale 10^{18} Nm; M_{rr}-0.19±.02 $M_{\theta\theta}$2.27±.02; $M_{\phi\phi}$-2.08±.02; $M_{r\theta}$0.37±.06; $M_{\theta\phi}$-5.14±.02; $M_{\phi r}$-0.09±.06; Best double couple: NP1:ϕ_s78.00000°,δ88.00000°,λ177.00000°. NP2:ϕ_s169.00000° ,δ87.00000°,λ2.00000°. Principal axes: T 5.6980,Plg4.0000°,Azm33.0000° ; N -0.2110,Plg86.0000°,Azm235.0000°; P -5.4890,Plg1.0000°,Azm124.0000° $M_0$5.59400×10^{18}
NEIC Event type se. Moment Tensor Solution. s15 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.16 $M_{\theta\theta}$2.86 $M_{\phi\phi}$-2.70 $M_{r\theta}$1.51 $M_{\theta\phi}$-4.34 $M_{\phi r}$1.82 Best double couple: NP1:ϕ_s255.00000° ,δ79.00000°,λ-160.00000°. NP2:ϕ_s161.00000°,δ71.00000°,λ-12.00000°. Principal axes: T 5.2700,Plg5.0000°,Azm27.0000°; N 0.7300,Plg67.0000°,Azm284.0000° ; P -6.0000,Plg21.0000°,Azm119.0000° $M_0$5.70000×10^{18}
NEIC Event type se. Error ellipse: s-maj=5.1km s-min=4.6km az=170.0. Moment Tensor Solution. $M_0$3.50000×10^{18} Moment Tensor Solution. s25 Moment tensor: Scale 10^{18}Nm; M_{rr}0.03 $M_{\theta\theta}$1.37 $M_{\phi\phi}$-1.40 $M_{r\theta}$2.91 $M_{\theta\phi}$-3.20 $M_{\phi r}$-0.37 Best double couple: NP1:ϕ_s79.00000° ,δ86.00000°,λ142.00000°. NP2:ϕ_s172.00000°,δ52.00000°,λ6.00000°. Principal axes: T 4.9500,Plg29.0000°,Azm28.0000°; N -0.9100,Plg52.0000°,Azm253.0000° ; P -4.0400,Plg22.0000°,Azm131.0000° $M_0$4.60000×10^{18}
MOS Error ellipse: s-maj=19.7km s-min=6.6km az=92.1.
IDC VI 05 23 54 42.9–2.3 56.40S 146.82E 0 3.9,3.7
¶17205371
IDC Error ellipse: s-maj=232.2km s-min=27.2km az=77.0.
IDC VI 06 09 48 13.5–3.0 59.00S 148.91E 0 3.7,3.6
¶17205404
IDC Error ellipse: s-maj=305.9km s-min=29.9km az=76.0.
IDC VI 10 03 03 56.5–3.3 57.16S 148.99E 0 4.0,3.8
¶17205679
IDC Error ellipse: s-maj=265.9km s-min=27.5km az=76.0.
ISC VI 17 00 30 01.0–.69 56.9S–.10 148.2E–.20 10 4.5b,4.1s 18 20-152
ISCJB VI 17 00 29 58.9–.71 56.87S–.08 148.0E–.30 10 4.4b,4.0s **¶16645077**
IDC VI 17 00 30 00.3–1.5 56.78S 148.01E 0 4.5,4.3
NEIC VI 17 00 30 01.1–.57 56.84S 148.13E 10 4.5b,4.3
GCMT VI 17 00 30 01.1–.30 56.99S 147.58E 12 5.0W,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.8km s-min=11.5km az=176.3.
IDC Error ellipse: s-maj=126.6km s-min=22.8km az=80.0.
NEIC Event type se. Error ellipse: s-maj=24.2km s-min=12.4km az=87.0.
GCMT Error ellipse: s-maj=3.3km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c29; s78,c117; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.02±.10 $M_{\theta\theta}$1.41±.08; $M_{\phi\phi}$-1.43±.10; $M_{r\theta}$-0.16±.26; $M_{\theta\phi}$-2.75±.07; $M_{\phi r}$-1.76±.26; Best double couple: NP1:ϕ_s346.00000° ,δ85.00000°,λ-28.00000°. NP2:ϕ_s78.00000°,δ62.00000°,λ-174.00000°. Principal axes: T 3.2970,Plg15.0000°,Azm35.0000°; N 0.4870,Plg62.0000°,Azm156.0000° ; P -3.7810,Plg23.0000°,Azm299.0000° $M_0$3.53900×10^{16}
IDC VI 18 20 02 10.8–3.5 55.73S 148.67E 0 3.8,3.7
¶17206488
IDC Error ellipse: s-maj=343.0km s-min=26.1km az=75.0.
ISC VI 22 15 53 29.4–.64 57.51S–.09 148.0E–.20 10 4.7b,3.8s 23 15-155
ISCJB VI 22 15 53 26.2–.65 57.53S–.08 147.9E–.30 10 4.9b,3.8s **¶16731241**
NEIC VI 22 15 53 30.6–.79 57.76S 147.92E 10 5.2b,3.8s
IDC VI 22 15 53 30.2–1.0 57.13S 147.70E 0 4.5,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.6km s-min=11.0km az=2.9.
NEIC Event type se. Error ellipse: s-maj=42.4km s-min=13.9km az=91.0.
IDC Error ellipse: s-maj=38.3km s-min=28.2km az=95.0.

(702) Balleny Islands region.

GCMT I 15 23 48 56.0–.20 62.27S 155.03E 12–1 5.1W
¶15940530
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c51; s76,c119; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.88±.19 $M_{\theta\theta}$4.62±.17; $M_{\phi\phi}$-3.74±.15; $M_{r\theta}$-1.18±.42; $M_{\theta\phi}$-3.37±.14; $M_{\phi r}$0.53±.42; Best double couple: NP1:ϕ_s335.00000°,δ84.00000° ,λ9.00000°. NP2:ϕ_s244.00000°,δ81.00000°,λ174.00000°. Principal axes: T 6.0490,Plg11.0000°,Azm200.0000°; N -1.1170,Plg79.0000°,Azm11.0000° ; P -4.9320,Plg2.0000°,Azm109.0000° $M_0$5.49000×10^{16}
ISC I 18 05 15 15.5–.61 64.7S–.10 176.0E–.10 10 4.7b,4.5s 30 13-162
ISCJB I 18 05 15 14.8–.59 64.71S–.08 175.4E–.30 10 4.6b,4.5s **¶15968921**
IDC I 18 05 15 14.3–.56 64.60S 175.81E 0 4.7,4.6b
NEIC I 18 05 15 15.6–.37 64.65S 175.81E 10 4.8b,4.6b
GCMT I 18 05 15 19.4–.20 64.45S 176.34E 12 5.3W,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.7km s-min=9.6km az=153.7.
IDC Error ellipse: s-maj=43.4km s-min=16.6km az=39.0.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=8.5km az=62.0.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s42,c53; s87,c150; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.79±.02 $M_{\theta\theta}$0.64±.01; $M_{\phi\phi}$0.14±.02; $M_{r\theta}$-0.53±.04; $M_{\theta\phi}$0.26±.01; $M_{\phi r}$-0.23±.05; Best double couple: NP1:ϕ_s66.00000°,δ63.00000° ,λ-90.00000°. NP2:ϕ_s247.00000°,δ27.00000°,λ-89.00000°. Principal axes: T 0.9390,Plg18.0000°,Azm157.0000°; N 0.0390,Plg0.0000°,Azm67.0000° ; P -0.9780,Plg72.0000°,Azm336.0000° $M_0$0.95900×10^{17}
ISC I 18 06 19 07.9–.47 64.6S–.10 176.4E–.10 10 4.8b,4.5s 39 14-158
ISCJB I 18 06 19 06.6–.52 64.62S–.10 176.1E–.30 10 4.8b,4.6s **¶15968922**
IDC I 18 06 19 06.4–.48 64.48S 176.61E 0 4.6,4.5
NEIC I 18 06 19 07.7–.32 64.56S 176.40E 10 4.7b,4.5
GCMT I 18 06 19 07.7–.20 64.41S 176.63E 12 5.2W,4.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=21.2km s-min=10.9km az=149.3.
IDC Error ellipse: s-maj=30.1km s-min=16.8km az=40.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=10.2km az=60.0.
GCMT Error ellipse: s-maj=4.4km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c52; s93,c145; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.74±.02 $M_{\theta\theta}$0.52±.02; $M_{\phi\phi}$0.22±.02; $M_{r\theta}$-0.41±.05; $M_{\theta\phi}$0.29±.01; $M_{\phi r}$-0.39±.05; Best double couple: NP1:ϕ_s52.00000°,δ64.00000° ,λ-96.00000°. NP2:ϕ_s245.00000°,δ27.00000°,λ-78.00000°. Principal axes: T 0.8870,Plg19.0000°,Azm146.0000°; N 0.0540,Plg5.0000°,Azm54.0000° ; P -0.9430,Plg70.0000°,Azm309.0000° $M_0$0.91500×10^{17}
IDC I 30 06 30 11.2–2.2 65.24S 179.94E 0 4.1,3.9
¶17191293
IDC Error ellipse: s-maj=73.7km s-min=40.8km az=69.0.
ISC II 03 14 51 01.7–.61 62.0S–.10 153.9E–.20 10 4.6s,4.4b 26 16-154
ISCJB II 03 14 50 59.5–.87 62.0S–.10 153.4E–.60 10 4.6s,4.4b **¶16009346**
IDC II 03 14 51 00.3–.70 61.87S 153.72E 0 4.6s,4.6
NEIC II 03 14 51 01.6–.56 61.95S 153.55E 10 4.2b,4.6
GCMT II 03 14 51 01.5–.10 62.00S 154.51E 13–1 5.4W,4.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=39.0km s-min=13.6km az=166.6.
IDC Error ellipse: s-maj=36.0km s-min=19.4km az=75.0.
NEIC Event type se. Error ellipse: s-maj=31.8km s-min=14.1km az=74.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s83,c128; s100,c174; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.12±.02 $M_{\theta\theta}$1.11±.02; $M_{\phi\phi}$-0.99±.02; $M_{r\theta}$-0.33±.06; $M_{\theta\phi}$-0.87±.02; $M_{\phi r}$0.23±.05; Best double couple: NP1:ϕ_s335.00000°,δ84.00000° ,λ13.00000°. NP2:ϕ_s244.00000°,δ77.00000°,λ174.00000°. Principal axes: T 1.5160,Plg13.0000°,Azm200.0000°; N -0.2000,Plg76.0000°,Azm358.0000° ; P -1.3160,Plg5.0000°,Azm109.0000° $M_0$1.41600×10^{17}
IDC II 24 23 30 16.9–4.4 62.38S 159.07E 0 4.3,4.3s
GCMT II 24 23 30 16.0–.20 62.00S 163.07E 17–0 5.3W,4.3s **¶16195207**
IDC Error ellipse: s-maj=292.6km s-min=33.4km az=71.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s74,c98; s102,c170; Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.25±.02 $M_{\theta\theta}$0.88±.02; $M_{\phi\phi}$-0.62±.02; $M_{r\theta}$-0.53±.06; $M_{\theta\phi}$-0.44±.01; $M_{\phi r}$0.28±.05; Best double couple: NP1:ϕ_s327.00000°,δ90.00000° ,λ31.00000°. NP2:ϕ_s237.00000°,δ59.00000°,λ179.00000°. Principal axes: T 1.2240,Plg22.0000°,Azm197.0000°; N -0.4290,Plg59.0000°,Azm328.0000° ; P -0.7950,Plg21.0000°,Azm98.0000° $M_0$1.00900×10^{17}
ISC III 02 22 44 47.9–.98 63.8S–.10 171.9E–.30 10 4.2s,3.9b 11 14-146
GCMT III 02 22 44 40.0–.30 63.75S 172.83E 21–2 5.0W,3.9b **¶16298653**
IDC III 02 22 44 46.6–1.1 63.74S 172.05E 0 4.3,4.1
ISCJB III 02 22 44 46.5–1.2 63.9S–.10 171.5E–.60 10 4.2s,3.9b
NEIC III 02 22 44 48.2–.70 63.87S 171.86E 10 4.2s,3.9b
ISC Event type se.
GCMT Error ellipse: s-maj=6.7km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s23,c25; s63,c87; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.72±.25 $M_{\theta\theta}$3.75±.21; $M_{\phi\phi}$-3.02±.17; $M_{r\theta}$-3.73±.55; $M_{\theta\phi}$0.33±.15; $M_{\phi r}$-0.29±.34; Best double couple: NP1:ϕ_s226.00000°,δ84.00000° ,λ144.00000°. NP2:ϕ_s320.00000°,δ54.00000°,λ8.00000°. Principal axes: T 5.8840,Plg30.0000°,Azm177.0000°; N -2.8010,Plg53.0000°,Azm37.0000° ; P -3.0770,Plg19.0000°,Azm278.0000° $M_0$4.48000×10^{16}
IDC Error ellipse: s-maj=61.8km s-min=30.6km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=40.8km s-min=16.0km az=162.1.
NEIC Event type se. Error ellipse: s-maj=31.2km s-min=14.0km az=76.0.
IDC III 09 02 45 20.4–1.5 65.63S 179.44E 0 4.3,4.1
¶17193506
IDC Error ellipse: s-maj=60.1km s-min=31.5km az=44.0.
ISC IV 22 17 06 30.0–1.0 62.2S–.10 163.7E–.40 10 4.0b 13 15-142
IDC IV 22 17 06 28.4–1.5 62.30S 163.54E 0 4.7s,4.6 **¶16591759**
GCMT IV 22 17 06 29.9–.30 62.19S 165.05E 22–2 5.2W,4.6
NEIC IV 22 17 06 29.9–.76 62.24S 163.70E 10 4.8b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=98.6km s-min=28.9km az=58.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s28,c30; s66,c96; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.89±.36 $M_{\theta\theta}$6.50±.31; $M_{\phi\phi}$-5.61±.26; $M_{r\theta}$-3.50±.57; $M_{\theta\phi}$-1.21±.23; $M_{\phi r}$0.56±.50; Best double couple: NP1:ϕ_s322.00000°,δ77.00000° ,λ18.00000°. NP2:ϕ_s228.00000°,δ73.00000°,λ167.00000°. Principal axes: T 8.0250,Plg22.0000°,Azm186.0000°; N -2.2830,Plg68.0000°,Azm357.0000° ; P -5.7410,Plg3.0000°,Azm95.0000° $M_0$6.88300×10^{16}
NEIC Event type se. Error ellipse: s-maj=36.7km s-min=9.0km az=72.0.
ISC IV 22 17 45 18.7–.54 62.16S–.07 164.6E–.10 10 4.6b,4.4s 55 8-161
IDC IV 22 17 45 16.9–.86 62.14S 164.69E 0 4.8L,4.6 **¶16631198**
ISCJB IV 22 17 45 17.2–.37 62.15S–.04 164.5E–.20 10 4.6b,4.4s
GCMT IV 22 17 45 18.6–.30 62.16S 165.13E 19–1 5.1W,4.4s
NEIC IV 22 17 45 18.6–.38 62.14S 164.46E 10 5.0b,4.4s
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=20.1km az=91.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=5.6km az=8.5.
GCMT Error ellipse: s-maj=4.4km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s24,c34; s84,c121; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.80±.29 $M_{\theta\theta}$5.97±.21; $M_{\phi\phi}$-4.17±.19; $M_{r\theta}$-2.93±.46; $M_{\theta\phi}$-1.01±.15; $M_{\phi r}$0.06±.45; Best double couple: NP1:ϕ_s230.00000°,δ83.00000° ,λ161.00000°. NP2:ϕ_s323.00000°,δ71.00000°,λ8.00000°. Principal axes:

T 7.0360,Plg18.0000°,Azm185.0000°; N -2.7350,Plg70.0000°,Azm30.0000°
; P -4.3010,Plg8.0000°,Azm278.0000° $M_0$5.66800×10^{16}
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=6.3km az=98.0.
IDC IV 25 10 13 38.0–4.0 63.18S 160.71E 0 3.6,3.4
¶17202038
IDC Error ellipse: s-maj=245.7km s-min=42.6km az=73.0.
ISC V 24 19 11 28.7–.94 64.8S–.10 178.7E–.20 10 4.8b,3.9s 21 14-148
ISCJB V 24 19 11 27.3–.64 64.70S–.07 178.6E–.40 10 4.6b,4.0s **¶16545196**
IDC V 24 19 11 27.2–2.7 64.81S 178.66E 0 4.9L,4.4
NEIC V 24 19 11 28.6–.72 64.78S 178.71E 10 4.8b,4.4
GCMT V 24 19 11 28.6–.40 64.73S 178.46E 29–2 5.0W,4.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.4km s-min=9.3km az=167.9.
IDC Error ellipse: s-maj=102.7km s-min=38.6km az=66.0.
NEIC Event type se. Error ellipse: s-maj=27.6km s-min=10.4km az=82.0.
GCMT Error ellipse: s-maj=7.8km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s22,c25; s64,c82; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}0.28±.25 $M_{\theta\theta}$3.24±.22; $M_{\phi\phi}$-3.52±.20; $M_{r\theta}$-1.57±.39; $M_{\theta\phi}$0.06±.15; $M_{\phi r}$0.94±.39; Best double couple: NP1:ϕ_s316.00000°,δ84.00000° ,λ28.00000°. NP2:ϕ_s223.00000°,δ62.00000°,λ173.00000°. Principal axes: T 3.9310,Plg24.0000°,Azm183.0000°; N -0.1650,Plg62.0000°,Azm328.0000° ; P -3.7680,Plg14.0000°,Azm86.0000° $M_0$3.85000×10^{16}
IDC V 30 23 19 39.6–2.2 64.17S 176.64E 0 3.9,3.7
¶17204794
IDC Error ellipse: s-maj=121.7km s-min=57.1km az=43.0.
IDC VI 07 07 14 40.1–5.1 61.39S 155.05E 0 4.1,4.0
GCMT VI 07 07 14 48.0–.40 61.30S 154.07E 17–2 4.9W,4.0 **¶17205461**
IDC Error ellipse: s-maj=285.9km s-min=38.9km az=75.0.
GCMT Error ellipse: s-maj=5.6km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s18,c20; s70,c95; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-0.43±.19 $M_{\theta\theta}$2.47±.13; $M_{\phi\phi}$-2.03±.13; $M_{r\theta}$0.16±.33; $M_{\theta\phi}$-1.97±.12; $M_{\phi r}$0.80±.39; Best double couple: NP1:ϕ_s154.00000°,δ79.00000° ,λ-14.00000°. NP2:ϕ_s247.00000°,δ76.00000°,λ-169.00000°. Principal axes: T 3.2150,Plg2.0000°,Azm201.0000°; N -0.1870,Plg72.0000°,Azm298.0000° ; P -3.0240,Plg17.0000°,Azm110.0000° $M_0$3.12000×10^{16}
IDC VI 14 02 47 11.5–2.3 65.03S 178.64E 0 4.2s,4.2
¶16603679
IDC Error ellipse: s-maj=77.6km s-min=41.0km az=69.0.
ISC VI 18 02 18 48.9–.44 63.64S–.08 172.1E–.10 10 4.8b,4.7s 74 14-161
ISCJB VI 18 02 18 47.1–.49 63.62S–.07 172.1E–.30 10 4.8b,4.7s **¶16645205**
IDC VI 18 02 18 47.7–.54 63.55S 172.12E 0 4.8,4.8s
NEIC VI 18 02 18 49.0–.28 63.64S 172.06E 10 4.7b,4.8s
GCMT VI 18 02 18 49.0–.10 63.48S 172.19E 12 5.4W,4.8s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=8.6km az=161.5.
IDC Error ellipse: s-maj=28.0km s-min=17.2km az=57.0.
NEIC Event type se. Error ellipse: s-maj=13.5km s-min=7.7km az=73.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c123; s103,c183; Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.14±.02 $M_{\theta\theta}$1.29±.02; $M_{\phi\phi}$-1.15±.02; $M_{r\theta}$-0.62±.04; $M_{\theta\phi}$0.16±.02; $M_{\phi r}$-0.16±.05; Best double couple: NP1:ϕ_s220.00000°,δ81.00000° ,λ159.00000°. NP2:ϕ_s314.00000°,δ70.00000°,λ9.00000°. Principal axes: T 1.5400,Plg21.0000°,Azm175.0000°; N -0.3620,Plg68.0000°,Azm18.0000° ; P -1.1770,Plg8.0000°,Azm268.0000° $M_0$1.35900×10^{17}
ISC VI 18 05 56 30.8–.43 64.41S–.06 172.66E–.10 10 5.0b,4.5s 64 14-158
IDC VI 18 05 56 23.2–.89 63.75S 171.51E 0 4.6,4.5 **¶16631896**
ISCJB VI 18 05 56 29.2–.41 64.28S–.04 172.5E–.30 10 4.9b,4.5s
BJI VI 18 05 56 31.0 64.30S 172.60E 10 5.5b,5.1s
GCMT VI 18 05 56 31.0–.10 63.46S 172.34E 12 5.4W,5.1s
NEIC VI 18 05 56 31.0–.44 64.30S 172.57E 10 5.1b,5.1s
ISC Event type se.
IDC Error ellipse: s-maj=60.0km s-min=26.0km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=6.0km az=177.8.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s96,c150; s109,c186; Duration: 1ŝ2 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.29±.02 $M_{\theta\theta}$1.66±.02; $M_{\phi\phi}$-1.37±.02; $M_{r\theta}$-0.83±.05; $M_{\theta\phi}$0.18±.02; $M_{\phi r}$-0.25±.05; Best double couple: NP1:ϕ_s222.00000°,δ85.00000° ,λ156.00000°. NP2:ϕ_s314.00000°,δ67.00000°,λ6.00000°. Principal axes: T 1.9850,Plg20.0000°,Azm175.0000°; N -0.5640,Plg66.0000°,Azm29.0000° ; P -1.4240,Plg12.0000°,Azm270.0000° $M_0$1.70400×10^{17}
NEIC Event type se. Error ellipse: s-maj=18.0km s-min=7.1km az=87.0.
IDC VI 18 06 50 09.8–6.1 63.48S 174.00E 0 4.1,4.1
¶16645206
IDC Error ellipse: s-maj=212.2km s-min=40.2km az=73.0.
ISC VI 20 17 47 57.4–1.6 61.3S–.10 156.2E–.50 10 4.1b 10 16-44
ISCJB VI 20 17 47 56.2–1.4 61.2S–.10 155.8E–.90 10 4.2s,4.2b **¶16731054**
IDC VI 20 17 47 57.3–2.3 61.17S 155.54E 0 4.4,4.3s
NEIC VI 20 17 47 58.1–1.4 61.16S 155.78E 10 4.1b,4.3s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=64.7km s-min=10.5km az=168.0.
IDC Error ellipse: s-maj=90.1km s-min=25.5km az=88.0.
NEIC Event type se. Error ellipse: s-maj=65.0km s-min=12.2km az=78.0.
ISC VI 27 20 04 17.9–.66 63.84S–.09 171.4E–.20 10 5.0s,4.4b 34 14-171
IDC VI 27 20 04 15.7–.83 63.24S 170.14E 0 4.9,4.9s **¶16685961**
GCMT VI 27 20 04 16.4–.10 63.30S 171.23E 12 5.4W,4.9s
NEIC VI 27 20 04 16.4–.61 63.58S 170.80E 10 5.0s,4.8b
BJI VI 27 20 04 17.0 63.80S 171.40E 10 5.3s,5.2b
ISC Event type se.
IDC Error ellipse: s-maj=35.8km s-min=23.2km az=70.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s101,c163; s106,c189; Duration: 1ŝ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.26±.02 $M_{\theta\theta}$1.70±.02; $M_{\phi\phi}$-1.45±.02; $M_{r\theta}$-0.99±.05; $M_{\theta\phi}$-0.26±.02; $M_{\phi r}$0.05±.05; Best double couple: NP1:ϕ_s228.00000°,δ76.00000° ,λ162.00000°. NP2:ϕ_s322.00000°,δ73.00000°,λ15.00000°. Principal axes: T 2.1300,Plg22.0000°,Azm185.0000°; N -0.6620,Plg67.0000°,Azm10.0000° ; P -1.4730,Plg2.0000°,Azm275.0000° $M_0$1.80100×10^{17}
NEIC Event type se. Error ellipse: s-maj=26.9km s-min=15.0km az=91.0.
ISC VI 27 20 31 46.2–.49 65.29S–.07 179.6E–.10 10 5.1b,4.8s 73 13-173
ISCJB VI 27 20 31 44.7–.45 65.29S–.05 179.1E–.20 10 4.8b,4.8s **¶16684573**
IDC VI 27 20 31 44.7–.68 65.17S 179.42E 0 4.7,4.7
BJI VI 27 20 31 46.8 65.30S 178.90E 10 5.6b,5.2s
NEIC VI 27 20 31 46.2–.33 65.28S 179.15E 10 5.3b,4.9s
GCMT VI 27 20 31 46.2–.20 65.19S 179.00E 19–1 5.3W,4.9s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=6.6km az=174.5.
IDC Error ellipse: s-maj=27.8km s-min=17.4km az=68.0.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=5.3km az=82.0.
GCMT Error ellipse: s-maj=3.3km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s62,c79; s95,c165; Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.16±.03 $M_{\theta\theta}$1.12±.03; $M_{\phi\phi}$-0.95±.03; $M_{r\theta}$-0.83±.08; $M_{\theta\phi}$-0.19±.02; $M_{\phi r}$-0.01±.05; Best double couple: NP1:ϕ_s229.00000° ,δ79.00000°,λ154.00000°. NP2:ϕ_s325.00000°,δ65.00000°,λ12.00000°. Principal axes: T 1.5420,Plg26.0000°,Azm184.0000°; N -0.5540,Plg62.0000°,Azm27.0000° ; P -0.9870,Plg9.0000°,Azm279.0000° $M_0$1.26400×10^{17}
ISC VI 30 04 21 19.7–.56 61.14S–.07 154.4E–.10 10 4.7b,4.6s 47 7-155
BJI VI 30 04 21 17.5 61.40S 154.00E 10 5.6b,5.4b **¶16702453**
ISCJB VI 30 04 21 18.8–.58 61.06S–.07 153.8E–.20 10 4.7b,4.7s
IDC VI 30 04 21 18.9–1.2 61.00S 153.93E 0 4.8,4.7
NEIC VI 30 04 21 19.3–.48 61.19S 153.98E 10 4.8b,4.7
GCMT VI 30 04 21 19.3–.20 61.06S 153.78E 12 5.3W,4.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=8.9km az=32.5.
IDC Error ellipse: s-maj=40.9km s-min=23.9km az=102.0.
NEIC Event type se. Error ellipse: s-maj=12.0km s-min=8.2km az=114.0.
GCMT Error ellipse: s-maj=2.2km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s75,c120; s99,c167; Duration: 1ŝ1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.03±.02 $M_{\theta\theta}$1.01±.02; $M_{\phi\phi}$-0.98±.02; $M_{r\theta}$0.04±.05; $M_{\theta\phi}$-0.82±.02; $M_{\phi r}$0.19±.06; Best double couple: NP1:ϕ_s154.00000°,δ85.00000° ,λ-7.00000°. NP2:ϕ_s245.00000°,δ83.00000°,λ-175.00000°. Principal axes: T 1.3070,Plg1.0000°,Azm200.0000°; N 0.0030,Plg81.0000°,Azm297.0000° ; P -1.3080,Plg9.0000°,Azm110.0000° $M_0$1.30700×10^{17}

IDC VI 30 11 34 57.1–3.7 61.26S 154.19E 0 4.3,4.1
¶17207251
IDC Error ellipse: s-maj=205.5km s-min=37.3km az=76.0.

SEISMIC REGION 46.
Andaman Islands to Sumatera.

(703) Andaman Islands region.

ISC I 01 17 36 08.5–1.8 14.40N–.06 93.09E–.05 18–10 4.4b,3.7s 143 1-134
IDC I 01 17 36 05.4–.49 14.33N 93.13E 0 4.4,4.3 **¶15902633**
BJI I 01 17 36 06.4 14.23N 93.15E 21 4.7b,4.5s
ISCJB I 01 17 36 06.6–.97 14.43N–.03 93.08E–.02 17–8 4.3b,3.7s
BKK I 01 17 36 07.5–2.2 15N–5.0 93E–19 0 4.6b,4.5b
MOS I 01 17 36 08.8–.89 14.34N 93.23E 36 4.8b,4.5b
DJA I 01 17 36 09.4–1.7 15N–7.0 93E–15 50–27 5.0b,4.7b
NEIC I 01 17 36 11.1–.81 14.39N 93.17E 38–8 4.7b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=12.1km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.9km az=17.1.
MOS Error ellipse: s-maj=9.7km s-min=7.2km az=98.3.
NEIC Event type se. Error ellipse: s-maj=7.6km s-min=6.9km az=75.0.
ISC I 06 21 02 13.7–.65 10.35N–.09 92.47E–.09 29 3.9b,3.4s 33 10-94
IDC I 06 21 02 08.9–1.0 10.22N 92.39E 0 4.0,3.9 **¶16007675**
ISCJB I 06 21 02 11.5–.47 10.32N–.06 92.48E–.07 29 3.9b,3.4s
NEIC I 06 21 02 14.5–.83 10.30N 92.47E 36–8 4.0b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=41.7km s-min=14.2km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=6.9km az=142.9.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.3km az=59.0.
ISC I 07 20 39 11.4–1.4 10.0N–.10 92.8E–.30 35 3.4b 7 10-147
IDC I 07 20 39 05.4–1.3 9.95N 92.60E 0 3.6,3.5b **¶17189658**
ISCJB I 07 20 39 09.8–1.5 10.1N–.10 92.9E–.30 33 3.5b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC I 12 23 54 32.1–.70 11.37N–.09 92.06E–.07 29 4.1b 48 10-123
IDC I 12 23 54 27.5–.78 11.34N 92.06E 0 4.1,4.1b **¶16151202**
ISCJB I 12 23 54 30.1–.45 11.32N–.05 92.13E–.05 29 4.2b,4.1b
NEIC I 12 23 54 32.2–2.3 11.30N 91.97E 31–4 4.4b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=24.9km s-min=15.9km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=7.8km s-min=6.5km az=164.8.
NEIC Event type se. Error ellipse: s-maj=18.6km s-min=12.9km az=65.0.
IDC I 16 23 42 55.1–1.0 12.57N 95.31E 0 3.8,3.6b
¶17190356
IDC Error ellipse: s-maj=83.2km s-min=20.4km az=46.0.
IDC I 18 19 57 43.8–1.3 12.36N 92.03E 0 3.5,3.4b
¶17190504
IDC Error ellipse: s-maj=44.7km s-min=21.4km az=54.0.
IDC I 21 18 00 31.2–1.7 13.90N 92.74E 0 3.9,3.8b
¶17190688
IDC Error ellipse: s-maj=44.4km s-min=24.1km az=71.0.
ISC I 22 04 18 46.1–1.4 13.8N–.20 92.9E–.20 32 3.5b 6 7-90
IDC I 22 04 18 41.2–1.5 13.76N 92.89E 0 3.8L,3.7 **¶17190714**
ISCJB I 22 04 18 44.1–1.3 13.8N–.20 92.9E–.20 32 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC I 27 22 01 12.4–1.4 14.0N–.20 93.0E–.20 29 3.4b 8 7-55
IDC I 27 22 01 06.3–1.7 13.72N 92.46E 0 3.5,3.5b **¶17191149**
ISCJB I 27 22 01 10.7–1.0 14.0N–.10 93.1E–.10 29 3.5b,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 10 24 22.6–.56 14.29N–.06 96.53E–.08 35 4.2b,3.6s 50 2-151
IDC II 01 10 24 17.1–.60 14.23N 96.50E 0 4.9L,4.4 **¶16337741**
ISCJB II 01 10 24 20.7–.40 14.31N–.05 96.54E–.04 33 4.3b,3.6s
BKK II 01 10 24 20.2–1.5 14N–7.0 97E–12 10 4.9,4.8b
NEIC II 01 10 24 22.5–.33 14.27N 96.55E 35 4.5b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=14.9km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=5.8km az=162.0.
NEIC Event type se. Error ellipse: s-maj=8.5km s-min=7.5km az=86.0.
ISC II 01 13 39 47.2–.37 10.61N–.03 94.04E–.03 25–2 5.3b,5.1s 560 2-167
IDC II 01 13 39 43.2–.37 10.60N 94.10E 0 4.8,4.8s **¶15995159**
BJI II 01 13 39 44.0 10.59N 93.95E 21 5.5b,5.4s
ISCJB II 01 13 39 44.6–.58 10.62N–.02 94.08E–.02 18–4 5.2b,5.1s
MOS II 01 13 39 46.2–1.2 10.71N 94.11E 29 5.5b,5.0s
NEIC II 01 13 39 47.0–1.7 10.62N 94.11E 22–11 5.6W,5.5b
GCMT II 01 13 39 47.0–.10 10.62N 94.27E 12 5.5W,5.5b
DJA II 01 13 39 51.2–.40 11N–3.0 95E–5.0 10 5.8,5.7b
BKK II 01 13 39 55.2–.40 11N–2.0 95E–5.0 10 5.5b,5.5
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Bangkok, Thailand. Moment Tensor Solution. s7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.29 $M_{\theta\theta}$-1.69 $M_{\phi\phi}$1.40 $M_{r\theta}$-0.30 $M_{\theta\phi}$2.24 $M_{\phi r}$-0.06 Best double couple: NP1: ϕ_s253.00000°,δ90.00000°,λ7.00000°. NP2:ϕ_s163.00000°,δ83.00000°,λ180.00000°. Principal axes: T 2.5900,Plg5.0000°,Azm118.0000°; N 0.2900,Plg83.0000°,Azm256.0000° ; P -2.8800,Plg4.0000°,Azm28.0000° $M_0$2.70000×10^{17}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s101,c158; s101,c230;Duration: 1ŝ3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.73±.02 $M_{\theta\theta}$0.26±.02; $M_{\phi\phi}$0.47±.03; $M_{r\theta}$1.22±.06; $M_{\theta\phi}$1.35±.02; $M_{\phi r}$-0.05±.06; Best double couple: NP1:ϕ_s259.00000°,δ75.00000°,λ-47.00000°. NP2:ϕ_s5.00000° ,δ45.00000°,λ-158.00000°. Principal axes: T 1.9790,Plg18.0000°,Azm318.0000° ; N -0.1000,Plg41.0000°,Azm65.0000°; P -1.8790,Plg43.0000°,Azm211.0000° $M_0$1.92900×10^{17}
ISC II 01 13 50 20.0–1.5 10.6N–.30 94.3E–.30 24 3.6b 8 38-92
IDC II 01 13 50 16.5–1.4 10.61N 94.36E 0 3.8,3.7 **¶17191484**
ISCJB II 01 13 50 18.1–1.3 10.6N–.20 94.3E–.30 24 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 18 42 19.3–1.2 10.5N–.20 94.2E–.20 19 3.8b 18 9-70
IDC II 01 18 42 16.3–1.2 10.50N 94.17E 0 3.9b,3.9 **¶17191500**
ISCJB II 01 18 42 17.5–.93 10.5N–.10 94.3E–.20 19 3.8b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC II 02 13 11 20.0–.38 14.01N–.04 92.98E–.05 32 4.2b 124 1-128
IDC II 02 13 11 14.5–.62 13.84N 92.92E 0 4.1,4.0 **¶16002353**
BJI II 02 13 11 15.0 13.55N 92.88E 33 4.8b,4.5s
ISCJB II 02 13 11 17.7–.29 13.94N–.03 92.92E–.03 32 4.2b,4.1s
MOS II 02 13 11 18.5–.97 13.91N 93.03E 38 4.4b,4.1s
NEIC II 02 13 11 19.1–.37 13.88N 93.01E 31 4.5b,4.1s
ISC Event type se.
IDC Error ellipse: s-maj=22.4km s-min=12.6km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=4.2km az=10.7.
MOS Error ellipse: s-maj=11.4km s-min=7.6km az=96.0.
NEIC Event type se. Error ellipse: s-maj=8.4km s-min=6.4km az=46.0.
ISC II 04 13 22 39.0–.76 12.88N–.09 93.68E–.10 58 3.9b 29 5-135
ISCJB II 04 13 22 37.4–.63 12.74N–.07 93.65E–.05 58 3.9b **¶17191650**
IDC II 04 13 22 40.4–6.2 13.00N 93.70E 75–56 4.6L,3.9
BKK II 04 13 23 07.5–3.3 14N–14 95E–25 10 4.3b,4.1b
ISC Event type ke.
ISCJB Event type ke.
IDC II 04 17 03 58.0–1.8 13.48N 92.21E 0 3.8L,3.6
¶17191678
IDC Error ellipse: s-maj=61.1km s-min=24.2km az=61.0.
ISC II 06 22 01 13.0–1.3 12.2N–.20 92.1E–.20 26 3.4b 8 9-75
ISCJB II 06 22 01 10.8–1.3 12.1N–.20 92.2E–.20 26 3.5b **¶17191833**
IDC II 06 22 01 20.9–9.4 12.45N 92.52E 85–77 3.9L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=27.1km s-min=23.0km az=38.7.
IDC Error ellipse: s-maj=80.2km s-min=20.4km az=55.0.
ISC II 11 18 14 55.4–.45 13.14N–.05 92.50E–.06 31 4.0b,3.5s 87 6-135
IDC II 11 18 14 50.5–.64 13.03N 92.50E 0 4.1,4.0 **¶16022445**

BJI II 11 18 14 50.6 12.59N 92.36E 36 4.6b,4.3s
BKK II 11 18 14 51.9–2.6 13N–6.0 92E–23 0 4.5b,4.2b
ISCJB II 11 18 14 53.2–.31 13.04N–.04 92.46E–.04 31 4.2b,3.5s
NEIC II 11 18 14 54.0–.36 12.91N 92.49E 30 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=22.3km s-min=13.3km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.5km az=135.2.
NEIC Event type se. Error ellipse: s-maj=7.5km s-min=7.0km az=196.0.
ISC II 13 00 12 06.3–.81 13.99N–.04 92.90E–.04 27–5 4.4b,3.6s 155 1-150
IDC II 13 00 12 01.9–.46 13.96N 92.87E 0 4.4,4.3 ¶16022454
MOS II 13 00 12 04.2–.80 13.92N 92.89E 27 4.6b,4.3
BJI II 13 00 12 04.1 13.69N 92.83E 42 5.0b,4.5s
NEIC II 13 00 12 07.3–.76 13.90N 92.93E 38–6 4.5b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=11.4km az=56.0.
MOS Error ellipse: s-maj=10.2km s-min=6.8km az=96.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=5.4km az=217.0.
IDC II 14 14 30 17.5–.98 11.78N 93.46E 31–6 3.7,3.6
¶17192244
IDC Error ellipse: s-maj=35.0km s-min=17.6km az=56.0.
ISC II 16 10 54 56.3–1.7 10.5N–.20 91.6E–.30 17 3.5b 8 11-74
IDC II 16 10 54 53.6–1.8 10.45N 91.57E 0 4.1,4.1s ¶602734471
ISCJB II 16 10 54 54.9–1.2 10.5N–.10 91.7E–.20 17 4.1s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC II 16 10 55 26.2–.44 10.56N–.04 91.67E–.04 22–2 4.7b,4.2s 316 2-147
IDC II 16 10 55 22.8–.51 10.61N 91.74E 0 4.4,4.3 ¶16398340
ISCJB II 16 10 55 23.0–.75 10.52N–.03 91.62E–.02 16–5 4.6b,4.1s
BJI II 16 10 55 24.4 10.42N 91.78E 30 5.1b,4.7b
DJA II 16 10 55 25.9–.30 10N–4.0 92E–3.0 10 5.2,5.2b
MOS II 16 10 55 26.2–1.1 10.65N 91.81E 37 4.9b,5.2b
NEIC II 16 10 55 26.2–.20 10.58N 91.74E 21 4.7b,5.2b
BKK II 16 10 55 27.9–.30 11N–3.0 92E–3.0 10 5.0b,4.7
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt at Port Blair.
ISC II 16 11 30 29.1–.82 10.6N–.10 91.7E–.10 17 3.8b 11 11-93
ISCJB II 16 11 30 26.9–.68 10.5N–.10 91.6E–.10 17 3.8b ¶17192365
IDC II 16 11 30 26.3–1.0 10.52N 91.61E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.8km s-min=15.1km az=141.6.
IDC Error ellipse: s-maj=33.1km s-min=16.9km az=60.0.
IDC II 18 22 52 13.8–2.0 12.34N 91.55E 0 3.6,3.5
¶17192511
IDC Error ellipse: s-maj=62.3km s-min=22.4km az=67.0.
IDC II 19 01 01 52.2–1.8 13.80N 92.52E 0 3.7,3.5
¶17192513
IDC Error ellipse: s-maj=57.7km s-min=22.1km az=63.0.
IDC III 05 02 24 46.9–7.1 10.39N 93.36E 145–63 3.7,3.5
¶17193259
IDC Error ellipse: s-maj=53.8km s-min=15.4km az=52.0.
ISC III 15 22 16 54.2–1.7 13.2N–.20 94.2E–.20 35 3.9b 20 7-134
IDC III 15 22 17 01.1–7.2 13.55N 93.91E 75–52 3.8,3.7 ¶17196277
ISC Event type ke.
IDC Error ellipse: s-maj=63.0km s-min=38.5km az=3.0.
ISC III 19 12 42 41.0–.46 12.95N–.04 92.41E–.04 28–3 4.7b,3.9s 319 1-161
IDC III 19 12 42 36.3–.38 12.92N 92.41E 0 4.6,4.6 ¶16339146
BJI III 19 12 42 36.5 12.66N 92.30E 24 4.8b,4.5b
BKK III 19 12 42 38.0–1.4 13N–3.0 92E–13 0 4.9b,4.8b
ISCJB III 19 12 42 38.8–.87 12.97N–.03 92.40E–.02 26–6 4.6b,3.9s
MOS III 19 12 42 38.7–.98 12.96N 92.48E 27 4.9b,3.9s
NEIC III 19 12 42 41.2–.18 12.95N 92.42E 30 4.8b,3.9s
DJA III 19 12 42 43.2–.50 13N–4.0 92E–4.0 59–9 5.9b,5.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 20 21 37 31.9–1.2 11.1N–.20 95.1E–.20 22 3.6b 7 8-76
IDC III 20 21 37 28.5–1.2 11.09N 95.12E 0 3.8,3.7b ¶17197554
ISCJB III 20 21 37 30.1–.00 11.1N–.10 95.2E–.20 22 3.6b,3.3s
ISC Event type ke.
ISCJB Event type ke.
IDC III 21 17 15 39.8–2.2 13.33N 92.71E 0 3.3L,3.2
¶17197712
IDC Error ellipse: s-maj=62.9km s-min=27.2km az=71.0.
ISC IV 02 10 30 09.4–1.7 10.5N–.20 91.5E–.30 17 3.8b 7 11-54
IDC IV 02 10 30 06.8–1.8 10.46N 91.45E 0 4.3L,4.0 ¶17199515
ISCJB IV 02 10 30 07.8–1.3 10.5N–.10 91.6E–.20 17 3.8b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 12 04 52.5–1.7 10.3N–.20 91.0E–.30 35 3.7b,3.3s 7 11-64
IDC IV 03 12 04 47.7–1.8 10.27N 91.07E 0 3.9L,3.8 ¶17199652
ISCJB IV 03 12 04 50.8–1.3 10.3N–.10 91.1E–.20 33 3.7b,3.3s
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 17 51 43.4–1.1 14.0N–.20 93.2E–.10 32 3.8b 10 7-91
IDC IV 03 17 51 38.2–1.2 13.87N 93.03E 0 3.8,3.7 ¶17199681
ISCJB IV 03 17 51 41.3–1.0 13.9N–.20 93.2E–.10 32 3.7b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC IV 03 19 04 16.7–3.8 11.10N 91.75E 0 3.5,3.3
¶17199688
IDC Error ellipse: s-maj=147.7km s-min=25.4km az=66.0.
ISC IV 04 06 24 58.8–1.4 14.0N–.20 93.2E–.20 32 3.6b 8 7-55
IDC IV 04 06 24 53.4–1.6 13.88N 92.97E 0 3.9L,3.8 ¶17199738
ISCJB IV 04 06 24 56.8–1.0 14.0N–.10 93.2E–.10 32 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 13 07 37 49.3–6.8 11.41N 94.06E 184–61 3.8,3.4
¶17200876
IDC Error ellipse: s-maj=63.9km s-min=13.4km az=53.0.
ISC IV 14 19 57 22.1–1.3 11.5N–.20 94.0E–.20 200 3.5b 17 8-75
ISCJB IV 14 19 57 20.2–1.1 11.5N–.20 94.0E–.20 200 3.4b ¶17201056
IDC IV 14 19 57 20.2–6.8 11.37N 93.91E 184–60 3.8,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.1km s-min=16.0km az=42.2.
IDC Error ellipse: s-maj=64.2km s-min=16.2km az=51.0.
ISC IV 15 12 42 57.8–.47 10.66N–.06 91.59E–.06 17 4.2b 53 2-146
BKK IV 15 12 42 43.5–2.1 10N–6.0 90E–20 10 4.9b,4.3b ¶16505389
IDC IV 15 12 42 55.0–.65 10.67N 91.69E 0 4.2,4.1b
ISCJB IV 15 12 42 56.4–.34 10.70N–.04 91.59E–.03 17 4.8s,4.2b
NEIC IV 15 12 43 00.6–1.6 10.69N 91.74E 37–15 4.3b,4.2b
DJA IV 15 12 43 04.1–.90 11N–4.0 92E–8.0 50–9 7.6,6.1b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 15 18 23 58.2–1.0 10.7N–.10 91.7E–.20 17 4.0b 26 10-75
IDC IV 15 18 23 55.7–1.1 10.69N 91.66E 0 3.9,3.8 ¶16587528
ISCJB IV 15 18 23 56.5–.61 10.68N–.07 91.75E–.10 17 4.0b,3.3s
NEIC IV 15 18 24 01.8–2.1 10.70N 91.75E 42–17 4.3b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=35.0km s-min=19.8km az=70.0.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=9.9km az=162.7.
NEIC Event type se. Error ellipse: s-maj=18.9km s-min=8.1km az=61.0.
ISC IV 18 01 06 52.9–.75 13.0N–.10 93.21E–.07 58 4.1b,3.2s 34 0-149
ISCJB IV 18 01 06 51.7–.38 13.11N–.05 93.28E–.05 58 4.0b,3.4s ¶16505420
IDC IV 18 01 06 52.7–4.9 12.98N 93.35E 55–42 4.2L,4.0
NEIC IV 18 01 06 52.6–1.9 12.97N 93.31E 55–15 4.4b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.3km az=36.7.
IDC Error ellipse: s-maj=27.2km s-min=16.4km az=45.0.
NEIC Event type se. Error ellipse: s-maj=16.1km s-min=8.8km az=51.0.

IDC IV 21 15 16 02.2–2.1 11.39N 92.69E 0 3.8L,3.6
¶17201722
IDC Error ellipse: s-maj=67.5km s-min=27.7km az=64.0.
IDC IV 24 06 19 14.6–1.7 13.06N 93.46E 0 4.3L,4.1
¶17201933
IDC Error ellipse: s-maj=56.9km s-min=27.3km az=60.0.
IDC IV 24 11 07 09.5–2.2 13.99N 93.01E 0 3.4,3.3L
¶17201958
IDC Error ellipse: s-maj=62.9km s-min=30.5km az=67.0.
ISC IV 24 17 35 40.4–.55 13.91N–.09 92.68E–.08 35 4.1b,3.4s 38 6-134
IDC IV 24 17 35 34.8–.57 13.90N 92.92E 0 4.1,4.0 ¶16505519
ISCJB IV 24 17 35 38.1–.47 13.95N–.06 92.75E–.05 33 4.0b,3.4s
BKK IV 24 17 36 14.5–2.9 15N–10 95E–27 10 5.2b,4.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 26 00 31 46.3–.86 13.7N–.10 92.77E–.09 29 3.9b 25 8-90
IDC IV 26 00 31 41.6–.85 13.51N 92.60E 0 4.0,4.0L ¶16681486
ISCJB IV 26 00 31 44.2–.57 13.63N–.08 92.74E–.09 29 3.8b,4.0L
NEIC IV 26 00 31 46.8–.41 13.58N 92.69E 35 4.0b,4.0L
ISC Event type se.
IDC Error ellipse: s-maj=33.7km s-min=17.3km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=9.1km az=137.1.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=8.4km az=221.0.
IDC V 01 21 57 40.4–2.2 10.26N 92.07E 0 3.8,3.7b
¶17202564
IDC Error ellipse: s-maj=70.7km s-min=22.5km az=69.0.
ISC V 02 20 32 00.9–.46 14.30N–.05 93.01E–.05 35 4.0b 67 1-89
IDC V 02 20 31 55.6–.74 14.29N 93.17E 0 4.2,4.2L ¶16708645
BKK V 02 20 31 57.8–2.2 15N–5.0 93E–20 10 4.9b,4.4b
ISCJB V 02 20 31 59.1–.30 14.38N–.04 93.13E–.03 33 4.1b,3.3s
NEIC V 02 20 32 01.1–.46 14.36N 93.25E 35 4.1b,3.3s
DJA V 02 20 32 07.8–.90 15N–6.0 94E–6.0 85–11 5.4b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 04 07 53 42.3–.80 10.1N–.20 93.2E–.20 43 3.9b 17 27-138
IDC V 04 07 53 36.0–.75 10.06N 93.13E 0 4.1,4.0 ¶17202736
ISCJB V 04 07 53 40.4–.73 10.1N–.20 93.2E–.20 43 3.9b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC V 05 22 03 28.8–.54 13.63N–.07 92.93E–.07 29 4.0b 30 8-96
ISCJB V 05 22 03 26.6–.41 13.58N–.06 92.90E–.07 29 4.2b ¶16578012
NEIC V 05 22 03 29.3–1.7 13.59N 92.88E 34–12 4.4b
IDC V 05 22 03 29.9–5.0 13.59N 92.92E 36–43 4.1L,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=6.8km az=145.3.
NEIC Event type se. Error ellipse: s-maj=6.1km s-min=4.9km az=73.0.
IDC Error ellipse: s-maj=29.1km s-min=16.3km az=50.0.
ISC V 07 16 25 41.1–1.3 13.9N–.20 92.9E–.20 32 3.5b 6 7-67
IDC V 07 16 25 36.2–1.2 13.83N 92.81E 0 3.6,3.5L ¶17202996
ISCJB V 07 16 25 38.9–1.0 13.9N–.20 92.9E–.20 32 3.5b,3.1s
ISC Event type ke.
ISCJB Event type ke.
IDC V 09 13 22 45.9–7.8 10.26N 91.23E 0 3.4,3.3
¶17203125
IDC Error ellipse: s-maj=400.5km s-min=22.8km az=59.0.
ISC V 11 18 41 10.6–1.3 13.8N–.20 92.6E–.20 29 3.6b 7 8-58
IDC V 11 18 41 06.2–1.2 13.72N 92.59E 0 3.6,3.6b ¶17203421
ISCJB V 11 18 41 08.4–1.0 13.8N–.10 92.7E–.20 29 3.6b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 04 49 41.2–1.1 13.8N–.10 93.3E–.10 41 4.0b 9 7-88
ISCJB V 20 04 49 39.3–.87 13.8N–.10 93.3E–.10 41 3.8b ¶17204015
IDC V 20 04 49 43.4–6.8 13.86N 93.37E 61–62 4.0L,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=17.8km s-min=11.8km az=144.4.
IDC Error ellipse: s-maj=40.9km s-min=18.7km az=51.0.
ISC V 27 18 33 31.9–1.0 14.0N–.10 93.2E–.10 32 3.6b 10 7-88
IDC V 27 18 33 26.9–.97 13.89N 93.05E 0 3.8,3.7b ¶17204582
ISCJB V 27 18 33 30.0–.83 14.0N–.10 93.26E–.10 32 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC V 28 06 22 12.3–.82 10.9N–.10 91.49E–.08 35 4.0b 30 10-72
IDC V 28 06 22 07.5–1.6 10.76N 91.79E 0 4.0,3.9b ¶16632922
ISCJB V 28 06 22 10.1–.56 10.73N–.09 91.65E–.06 35 4.0b,3.3s
NEIC V 28 06 22 12.6–.42 10.77N 91.77E 35 4.6b,3.3s
ISC Event type se.
IDC Error ellipse: s-maj=78.9km s-min=17.0km az=60.0.
ISCJB Event type se. Error ellipse: s-maj=14.0km s-min=6.7km az=23.5.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=9.0km az=56.0.
ISC V 28 13 00 24.9–.67 13.66N–.08 93.07E–.07 10 4.0b,3.4s 27 5-90
IDC V 28 13 00 22.0–.79 13.59N 93.00E 0 4.1,4.0 ¶16711132
BKK V 28 13 00 40.0–3.6 14N–13 94E–30 10 4.3b,4.2
ISC Event type ke.
ISC VI 09 09 51 03.1–.32 14.09N–.04 92.85E–.03 34–1 4.8b,3.5s 354 1-162
BKK VI 09 09 50 56.6–2.5 14N–5.0 93E–22 10 5.1b,4.8 ¶16580458
DJA VI 09 09 50 57.5–1.6 14N–6.0 92E–18 10 5.9,5.4b
ISCJB VI 09 09 50 59.0–.78 14.08N–.02 92.82E–.02 19–6 4.7b,3.6s
MOS VI 09 09 51 01.4–.89 14.09N 92.93E 38 4.9b,3.6s
BJI VI 09 09 51 02.2 14.08N 92.87E 42 4.8b,4.7b
IDC VI 09 09 51 03.1–.40 14.08N 92.92E 36–2 4.6,4.5L
NEIC VI 09 09 51 03.9–.64 14.12N 92.88E 40–6 4.9b,4.5L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=11.7.
MOS Error ellipse: s-maj=8.2km s-min=5.3km az=108.8.
IDC Error ellipse: s-maj=12.0km s-min=8.7km az=43.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=4.5km az=57.0.
ISC VI 11 16 43 27.7–.98 12.5N–.10 92.0E–.10 35 3.6b 16 9-58
IDC VI 11 16 43 21.8–1.1 12.41N 91.89E 0 3.7,3.7b ¶16856971
ISCJB VI 11 16 43 25.5–.74 12.52N–.08 92.10E–.08 33 3.6b,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC VI 15 22 31 34.8–1.1 12.59N 94.15E 0 4.0L,3.7
¶17206204
IDC Error ellipse: s-maj=36.4km s-min=22.6km az=44.0.
ISC VI 18 10 03 51.1–.45 13.71N–.05 92.90E–.05 29 4.2b 70 1-134
BKK VI 18 10 03 12.5–7.3 13N–25 90E–57 10 4.8b,4.8b ¶16720943
IDC VI 18 10 03 46.3–.53 13.57N 92.86E 0 4.4L,4.3
ISCJB VI 18 10 03 49.1–.34 13.64N–.04 92.79E–.03 29 4.2b,3.4s
NEIC VI 18 10 03 49.1–2.8 13.57N 92.89E 17–17 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=12.4km az=58.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.9km az=12.5.
NEIC Event type se. Error ellipse: s-maj=6.6km s-min=5.9km az=78.0.
IDC VI 20 19 06 47.9–3.6 13.24N 92.47E 0 3.8L,3.6
¶17206617
IDC Error ellipse: s-maj=68.7km s-min=35.7km az=105.0.
ISC VI 21 01 29 13.1–.89 12.6N–.10 93.5E–.10 58 4.0b 13 8-74
ISCJB VI 21 01 29 11.1–.71 12.64N–.09 93.59E–.10 58 3.9b ¶17206641
IDC VI 21 01 29 18.1–6.0 12.77N 93.69E 104–54 3.9,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.0km s-min=11.8km az=36.1.
IDC Error ellipse: s-maj=41.0km s-min=13.2km az=52.0.
IDC VI 22 07 24 27.2–2.1 13.47N 92.56E 0 3.8,3.6
¶17206736
IDC Error ellipse: s-maj=63.6km s-min=27.3km az=67.0.
IDC VI 27 06 20 19.4–9.4 11.76N 91.48E 0 3.6,3.5
¶17207054
IDC Error ellipse: s-maj=503.4km s-min=23.7km az=60.0.
IDC VI 30 09 44 26.4–7.6 10.81N 91.94E 0 3.8,3.6
¶17207247

IDC Error ellipse: s-maj=391.3km s-min=29.1km az=60.0.

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ISC	**I**	**03 18 22 39.6–.74**	**7.8N–.10**	**94.0E–.10**	**18**	**3.8b**	**26**	**7-91**	
IDC	I	03 18 22 36.8–.90	7.84N	93.89E	0	4.1L,3.9			¶16017930
ISCJB	I	03 18 22 37.6–.58	7.72N–.08	94.10E–.10	18	3.9b,3.4s			
NEIC	I	03 18 22 41.7–.65	7.76N	93.87E	35	4.4b,3.4s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=34.7km s-min=17.3km az=53.0.								
ISCJB	Event type se. Error ellipse: s-maj=16.8km s-min=6.4km az=141.4.								
NEIC	Event type se. Error ellipse: s-maj=17.9km s-min=10.5km az=66.0.								
ISC	**I**	**12 06 11 17.8–3.5**	**7.4N–.60**	**91.6E–1.0**	**35**	**3.7b**	**10**	**20-62**	
IDC	I	12 06 11 15.5–5.1	8.09N	92.56E	0	4.0s,4.0			¶17189973
ISC	Event type ke.								
IDC	Error ellipse: s-maj=266.7km s-min=20.5km az=58.0.								
IDC	**I**	**19 14 07 25.6–2.3**	**9.62N**	**92.49E**	**0**	**4.0L,3.6**			
									¶17190564
IDC	Error ellipse: s-maj=74.2km s-min=26.4km az=66.0.								
ISC	**I**	**20 20 32 13.7–.72**	**7.52N–.10**	**91.80E–.07**	**24**	**4.2b,3.5s**	**43**	**2-80**	
IDC	I	20 20 32 09.8–.88	7.50N	91.78E	0	4.1L,4.0			¶16151971
ISCJB	I	20 20 32 12.0–.58	7.53N–.07	91.82E–.05	24	4.1b,3.5s			
NEIC	I	20 20 32 15.2–1.2	7.48N	91.80E	37–11	4.5b,3.5s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=29.8km s-min=17.6km az=46.0.								
ISCJB	Event type se. Error ellipse: s-maj=11.5km s-min=5.9km az=28.3.								
NEIC	Event type se. Error ellipse: s-maj=11.0km s-min=10.1km az=191.0.								
ISC	**I**	**20 20 40 14.5–2.0**	**7.7N–.30**	**91.9E–.20**	**25**	**3.9b**	**13**	**11-120**	
IDC	I	20 20 40 12.9–8.1	7.91N	91.76E	0	4.0L,3.9			¶16151972
NEIC	I	20 20 40 16.3–1.7	7.70N	91.82E	38–12	4.1b,3.9			
ISC	Event type se.								
IDC	Error ellipse: s-maj=153.7km s-min=37.4km az=153.0.								
NEIC	Event type se. Error ellipse: s-maj=23.6km s-min=11.3km az=143.0.								
ISC	**I**	**23 16 09 14.0–.99**	**9.5N–.10**	**93.9E–.20**	**22**	**3.9s,3.7b**	**10**	**8-93**	
IDC	I	23 16 09 10.5–1.6	9.55N	93.95E	0	3.9,3.9b			¶17190815
ISCJB	I	23 16 09 11.8–.86	9.5N–.10	94.0E–.20	22	4.0s,3.8b			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**I**	**31 17 25 59.2–9.9**	**7.53N**	**91.69E**	**0**	**3.7,3.7**			
									¶17191424
IDC	Error ellipse: s-maj=195.6km s-min=88.1km az=159.0.								
IDC	**II**	**03 09 00 55.1–2.6**	**8.61N**	**91.47E**	**0**	**4.5L,3.7**			
									¶17191588
IDC	Error ellipse: s-maj=80.7km s-min=24.2km az=69.0.								
IDC	**II**	**05 15 46 14.0–81**	**7.16N**	**91.89E**	**0**	**3.6,3.6**			
									¶17191747
IDC	Error ellipse: s-maj=1486.0km s-min=131.0km az=3.0.								
ISC	**II**	**10 19 27 20.8–.44**	**9.13N–.07**	**92.55E–.07**	**31**	**4.2b**	**76**	**3-145**	
IDC	II	10 19 27 16.0–.54	9.14N	92.55E	0	4.2,4.2			¶16328794
ISCJB	II	10 19 27 18.6–.34	9.08N–.04	92.53E–.05	31	4.2b,4.2			
NEIC	II	10 19 27 20.2–2.3	9.12N	92.55E	28–16	4.4b,4.2			
ISC	Event type se.								
IDC	Error ellipse: s-maj=19.7km s-min=13.0km az=52.0.								
ISCJB	Event type se. Error ellipse: s-maj=8.1km s-min=5.0km az=139.8.								
NEIC	Event type se. Error ellipse: s-maj=8.9km s-min=6.9km az=49.0.								
IDC	**II**	**19 08 02 21.3–4.9**	**7.66N**	**91.57E**	**0**	**3.7,3.7**			
									¶17192525
IDC	Error ellipse: s-maj=135.7km s-min=45.7km az=126.0.								
IDC	**III**	**01 00 54 05.4–15**	**7.72N**	**91.52E**	**0**	**3.9L,3.6b**			
									¶17193028
IDC	Error ellipse: s-maj=284.9km s-min=68.7km az=165.0.								
ISC	**III**	**01 03 31 34.1–1.9**	**6.5N–.20**	**93.4E–.30**	**25**	**3.6b**	**7**	**13-50**	
IDC	III	01 03 31 29.5–2.1	6.42N	93.17E	0	4.4L,3.7			¶17193035
ISCJB	III	01 03 31 32.2–1.4	6.6N–.20	93.4E–.30	25	3.6b,3.7			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**III**	**01 10 23 34.8–22**	**7.32N**	**94.65E**	**241–190**	**3.8,3.3**			
									¶17193062
IDC	Error ellipse: s-maj=235.1km s-min=13.3km az=57.0.								
ISC	**III**	**07 07 56 53.3–1.5**	**9.7N–.20**	**93.2E–.30**	**45**	**3.7b**	**6**	**10-73**	
IDC	III	07 07 56 46.5–1.8	9.55N	92.95E	0	4.1L,4.0			¶17193399
ISCJB	III	07 07 56 51.6–1.3	9.7N–.10	93.3E–.20	45	3.7b,4.0			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**III**	**07 09 16 11.4–1.6**	**9.25N**	**93.13E**	**0**	**4.0L,3.8**			
									¶17193404
IDC	Error ellipse: s-maj=64.1km s-min=21.5km az=57.0.								
ISC	**III**	**09 13 57 27.8–.32**	**8.68N–.03**	**92.36E–.04**	**21–4**	**5.2b,4.3s**	**559**	**2-160**	
IDC	III	09 13 57 24.6–.32	8.71N	92.47E	0	4.8,4.8b			¶16295225
ISCJB	III	09 13 57 24.8–.67	8.66N–.02	92.36E–.02	15–4	5.1b,4.3s			
BJI	III	09 13 57 25.7	8.54N	92.45E	31	5.1b,5.1b			
NEIC	III	09 13 57 28.1–.32	8.66N	92.41E	24–2	5.3b,5.1b			
MOS	III	09 13 57 28.0–1.1	8.77N	92.47E	33	5.3b,4.4s			
DJA	III	09 13 57 32.6–.40	9N–3.0	93E–3.0	40–4	5.8b,5.3			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**III**	**10 10 47 36.8–.68**	**7.7N–.10**	**93.8E–.10**	**20**	**3.8b**	**15**	**7-90**	
ISCJB	III	10 10 47 34.7–.65	7.8N–.10	93.8E–.10	20	3.8b			¶17193615
IDC	III	10 10 47 42.1–3.5	7.75N	94.17E	81–32	3.9,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=21.7km s-min=8.1km az=140.0.								
IDC	Error ellipse: s-maj=36.6km s-min=15.0km az=54.0.								
ISC	**III**	**22 16 27 53.6–1.1**	**7.6N–.10**	**91.8E–.10**	**24**	**4.0b**	**20**	**11-72**	
IDC	III	22 16 27 50.0–1.1	7.59N	91.80E	0	3.9L,3.8			¶16449024
ISCJB	III	22 16 27 51.4–.79	7.50N–.10	91.78E–.10	24	4.0b,3.8			
NEIC	III	22 16 27 55.5–1.2	7.57N	91.75E	41–11	4.4b,3.8			
ISC	Event type se.								
IDC	Error ellipse: s-maj=34.4km s-min=19.1km az=52.0.								
ISCJB	Event type se. Error ellipse: s-maj=15.2km s-min=12.8km az=139.9.								
NEIC	Event type se. Error ellipse: s-maj=10.9km s-min=10.6km az=214.0.								
ISC	**IV**	**07 11 02 50.4–.70**	**6.8N–.10**	**94.4E–.10**	**26**	**4.2b**	**21**	**3-81**	
ISCJB	IV	07 11 02 48.9–.79	6.8N–.10	94.3E–.20	26	4.1b			¶16577719
IDC	IV	07 11 02 57.8–3.9	6.77N	94.53E	90–36	4.1,3.9			
NEIC	IV	07 11 02 59.3–1.9	6.59N	94.40E	111–19	4.2b,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=23.5km s-min=18.3km az=156.6.								
IDC	Error ellipse: s-maj=30.3km s-min=15.8km az=60.0.								
NEIC	Event type se. Error ellipse: s-maj=25.3km s-min=14.2km az=72.0.								
IDC	**IV**	**11 00 06 59.5–7.0**	**7.33N**	**94.14E**	**0**	**3.9,3.9**			
									¶17200511
IDC	Error ellipse: s-maj=154.6km s-min=83.8km az=132.0.								
ISC	**IV**	**16 01 52 59.9–1.1**	**6.0N–.20**	**94.0E–.20**	**48**	**3.9b**	**12**	**6-79**	
ISCJB	IV	16 01 52 58.0–.85	6.0N–.10	94.0E–.20	48	3.8b			¶17201185
IDC	IV	16 01 53 04.3–4.2	6.24N	94.24E	84–38	3.8,3.7			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=27.2km s-min=15.4km az=144.2.								
IDC	Error ellipse: s-maj=53.2km s-min=15.5km az=54.0.								
IDC	**IV**	**23 17 35 52.6–4.9**	**7.63N**	**93.81E**	**74–43**	**3.6,3.6**			
									¶17201896
IDC	Error ellipse: s-maj=70.8km s-min=20.3km az=54.0.								
ISC	**IV**	**30 11 12 15.2–.63**	**7.36N–.04**	**97.61E–.09**	**10**	**4.1b**	**23**	**1-94**	
DJA	IV	30 11 11 26.5–1.7	11N–8.0	95E–20	10	5.8b,5.3			¶16708400
ISCJB	IV	30 11 12 14.9–.50	7.47N–.05	97.67E–.07	10	3.9b,5.3			
IDC	IV	30 11 12 14.3–.87	7.37N	97.55E	0	4.0,4.0b			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=9.5km s-min=7.5km az=5.8.								
IDC	Error ellipse: s-maj=45.6km s-min=12.2km az=67.0.								
ISC	**V**	**07 20 48 30.9–.59**	**6.46N–.09**	**94.03E–.10**	**35**	**4.2b**	**45**	**3-79**	
ISCJB	V	07 20 48 28.5–.41	6.41N–.07	94.07E–.07	33	4.2b			¶16709118
NEIC	V	07 20 48 35.0–.94	6.35N	94.17E	82–9	4.5b			
IDC	V	07 20 48 35.9–8.2	6.40N	94.16E	86–73	3.8,3.8L			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=13.1km s-min=6.0km az=139.3.								
NEIC	Event type se. Error ellipse: s-maj=11.0km s-min=6.5km az=68.0.								
IDC	Error ellipse: s-maj=50.7km s-min=15.1km az=52.0.								
IDC	**V**	**24 18 52 54.5–2.4**	**7.36N**	**93.06E**	**0**	**3.5,3.5L**			
									¶17204398
IDC	Error ellipse: s-maj=87.0km s-min=24.6km az=64.0.								
ISC	**V**	**27 08 03 29.7–.61**	**6.2N–.10**	**94.3E–.10**	**64**	**4.1b**	**30**	**3-141**	
ISCJB	V	27 08 03 28.1–.47	6.21N–.08	94.26E–.09	64	4.1b			¶16632921
IDC	V	27 08 03 32.9–3.4	6.31N	94.56E	92–31	4.1,3.9			
NEIC	V	27 08 03 33.5–1.0	6.27N	94.54E	101–9	4.1b,3.9			
ISC	Event type se.								
ISCJB	Event type se. Error ellipse: s-maj=15.5km s-min=7.0km az=140.9.								
IDC	Error ellipse: s-maj=29.1km s-min=13.7km az=59.0.								
NEIC	Event type se. Error ellipse: s-maj=14.4km s-min=6.5km az=68.0.								
ISC	**VI**	**03 07 27 12.7–.28**	**9.69N–.02**	**92.58E–.03**	**54–2**	**5.9b,4.9s**	**1906**	**2-171**	
BJI	VI	03 07 27 08.2	9.42N	92.51E	43	5.3b,5.2b			¶602918549
ISCJB	VI	03 07 27 09.9–.31	9.63N–.02	92.50E–.01	45–2	5.9b,4.9s			
MOS	VI	03 07 27 09.5–.94	9.63N	92.51E	44	6.1b,5.0s			
KLM	VI	03 07 27 10.3	9.50N	92.21E	49	6.5s,5.6b			
NEIC	VI	03 07 27 10.0–.00	9.66N	92.53E	35	6.5s,5.6b			
GCMT	VI	03 07 27 11.8–.10	9.69N	92.63E	48–1	5.5W,5.6b			
NEIC	VI	03 07 27 11.8–.09	9.64N	92.46E	45	5.9b,5.9			
DJA	VI	03 07 27 12.5–.30	10N–3.0	92E–3.0	44–4	6.0b,5.8b			
IDC	VI	03 07 27 13.2–.57	9.68N	92.61E	56–4	5.6,5.4			
ISC	Event type ke.								
ISCJB	Event type ke. Error ellipse: s-maj=2.9km s-min=2.2km az=30.6.								
MOS	Error ellipse: s-maj=6.1km s-min=3.3km az=121.2.								
NEIC	Event type se. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.80 $M_{\theta\theta}$-0.60 $M_{\phi\phi}$1.50 $M_{r\theta}$0.40 $M_{\theta\phi}$-0.40 $M_{\phi r}$-1.60 Best double couple: NP1:ϕ_s342.00000° ,δ72.00000°,λ-98.00000°. NP2:ϕ_s187.00000°,δ19.00000°,λ-66.00000°. Principal axes: T 2.3000,Plg26.0000°,Azm79.0000°; N -0.7000,Plg7.0000°,Azm345.0000° ; P -1.7000,Plg61.0000°,Azm240.0000° $M_0$2.00000×10^{17}								
GCMT	Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s101,c169; s107,c219;Duration: 1s3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.82±.03 $M_{\theta\theta}$-0.65±.02; $M_{\phi\phi}$1.47±.03; $M_{r\theta}$-0.48±.02; $M_{\theta\phi}$-0.04±.02; $M_{\phi r}$-1.58±.04; Best double couple: NP1: ϕ_s18.00000°,δ74.00000°,λ-72.00000°. NP2:ϕ_s148.00000°,δ23.00000°,λ-138.00000°. Principal axes: T 2.2870,Plg27.0000°,Azm94.0000°; N -0.4870,Plg17.0000°,Azm193.0000° ; P -1.8010,Plg57.0000°,Azm311.0000° $M_0$2.04400×10^{17}								
NEIC	Event type se. Error ellipse: s-maj=3.8km s-min=2.5km az=215.0. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}-1.02 $M_{\theta\theta}$-0.44 $M_{\phi\phi}$1.46 $M_{r\theta}$-0.38 $M_{\theta\phi}$-0.20 $M_{\phi r}$-1.92 Best double couple: NP1:ϕ_s10.00000°,δ75.00000°,λ-77.00000°. NP2: ϕ_s150.00000°,δ20.00000°,λ-129.00000°. Principal axes: T 2.5000,Plg29.0000°,Azm90.0000° ; N -0.3300,Plg12.0000°,Azm187.0000°; P -2.1700,Plg58.0000°,Azm298.0000° $M_0$2.40000×10^{17}								
IDC	Error ellipse: s-maj=8.9km s-min=7.7km az=52.0.								
ISC	**VI**	**03 12 08 30.6–1.1**	**7.61N–.05**	**91.82E–.05**	**28–7**	**4.6b,3.4s**	**202**	**2-159**	
IDC	VI	03 12 08 26.4–.47	7.60N	91.82E	0	4.5L,4.4			¶16556044
BJI	VI	03 12 08 27.7	7.38N	91.74E	33	4.7b,4.6b			
ISCJB	VI	03 12 08 29.0–.24	7.52N–.04	91.81E–.03	33	4.5b,3.5s			
MOS	VI	03 12 08 29.6–.98	7.64N	91.83E	33	4.7b,3.5s			
NEIC	VI	03 12 08 31.7–.23	7.58N	91.88E	35	4.7b,3.5s			
DJA	VI	03 12 08 31.7–1.3	7N–3.0	92E–3.0	33–14	4.9,4.7			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
ISC	**VI**	**29 18 49 23.5–1.1**	**8.9N–.10**	**91.8E–.10**	**30**	**3.6b**	**14**	**11-52**	
IDC	VI	29 18 49 19.4–1.2	8.96N	91.82E	0	4.1L,3.8			¶17207212
ISCJB	VI	29 18 49 21.4–.82	8.92N–.09	91.81E–.09	30	3.6b,3.8			
ISC	Event type ke.								
ISCJB	Event type ke.								

(705) Off west coast of northern Sumatera.

ISC	**I**	**02 07 44 52.9–1.1**	**2.00N–.07**	**96.73E–.08**	**28**	**3.7b**	**16**	**1-53**	
IDC	I	02 07 44 46.5–1.9	1.70N	96.25E	0	3.7,3.6b			¶17189194
DJA	I	02 07 44 53.9–.80	2N–4.0	97E–6.0	10	3.3,3.3			
ISC	Event type ke.								
ISC	**I**	**02 10 27 48.3–1.9**	**2.4N–.20**	**95.6E–.20**	**25**	**3.6b**	**7**	**3-143**	
IDC	I	02 10 27 44.3–2.3	2.28N	95.49E	0	3.6,3.5b			¶17189207
ISCJB	I	02 10 27 46.2–1.8	2.3N–.20	95.5E–.20	25	3.5b,3.2s			
ISC	Event type ke.								
ISCJB	Event type ke.								
IDC	**I**	**04 01 34 03.2–4.1**	**2.95N**	**95.75E**	**0**	**3.4,3.3**			
									¶17189377
IDC	Error ellipse: s-maj=156.0km s-min=27.9km az=58.0.								
IDC	**I**	**04 05 35 27.0–2.2**	**4.95N**	**93.97E**	**0**	**3.7,3.5**			
									¶17189392
IDC	Error ellipse: s-maj=110.7km s-min=27.2km az=53.0.								
ISC	**I**	**07 03 09 59.3–.38**	**4.25N–.03**	**90.35E–.03**	**18–1**	**5.2s,5.2b**	**777**	**4-176**	
BJI	I	07 03 09 53.5	3.79N	90.13E	15	5.4s,5.3b			¶15908418
ISCJB	I	07 03 09 55.0–.73	4.25N–.02	90.37E–.02	2–4	5.2s,5.1b			
IDC	I	07 03 09 56.6–.34	4.30N	90.43E	0	4.8L,4.8			
NEIC	I	07 03 09 58.8–1.9	4.24N	90.41E	17–11	5.4b,5.2s			
GCMT	I	07 03 09 58.8–.10	4.20N	90.37E	14–0	5.5W,5.2s			
MOS	I	07 03 09 59.9–1.0	4.32N	90.38E	33	5.3b,4.9s			
KLM	I	07 03 10 00.3	4.18N	90.45E	20	6.4s,5.5b			
DJA	I	07 03 10 03.0–.20	5N–3.0	91E–2.0	10	5.7b,5.4b			
ISC	Event type se.								
ISCJB	Event type se.								
NEIC	Event type se.								
GCMT	nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s91,c146; s124,c243;Duration: 1s4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.05±.03 $M_{\theta\theta}$-1.24±.03; $M_{\phi\phi}$1.19±.03; $M_{r\theta}$-0.69±.08; $M_{\theta\phi}$-1.78±.03; $M_{\phi r}$-0.99±.10; Best double couple: NP1:ϕ_s17.00000°,δ85.00000°,λ-27.00000°. NP2:ϕ_s109.00000° ,δ63.00000°,λ-175.00000°. Principal axes: T 2.2830,Plg16.0000°,Azm66.0000° ; N 0.3410,Plg62.0000°,Azm188.0000°; P -2.6220,Plg22.0000°,Azm329.0000° $M_0$2.45200×10^{17}								
IDC	**I**	**10 07 04 29.4–4.1**	**4.33N**	**91.38E**	**0**	**4.3s,4.3**			
									¶17189825
IDC	Error ellipse: s-maj=148.5km s-min=29.1km az=59.0.								
ISC	**I**	**10 14 28 17.4–.92**	**2.3N–.10**	**94.72E–.10**	**21**	**4.2b**	**21**	**3-144**	
IDC	I	10 14 28 13.7–1.1	2.25N	94.50E	0	4.1,4.1b			¶15994812
ISCJB	I	10 14 28 15.7–.76	2.38N–.09	94.73E–.07	21	4.1b,3.1s			
NEIC	I	10 14 28 18.9–.71	2.31N	94.69E	35	4.1b,3.1s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=40.5km s-min=16.9km az=55.0.								
ISCJB	Event type se. Error ellipse: s-maj=14.0km s-min=7.9km az=25.9.								
NEIC	Event type se. Error ellipse: s-maj=14.2km s-min=10.1km az=222.0.								
ISC	**I**	**10 20 13 18.6–1.8**	**2.00N–.05**	**96.69E–.06**	**33–8**	**4.3b**	**76**	**1-145**	
BJI	I	10 20 13 11.9	1.54N	96.60E	28	4.8b,4.8s			¶16151013
IDC	I	10 20 13 13.1–.73	1.90N	96.57E	0	4.4,4.3			
DJA	I	10 20 13 15.8–.80	2N–4.0	96E–5.0	14	4.7b,4.5			
ISCJB	I	10 20 13 18.1–1.2	2.02N–.06	96.74E–.07	43–9	4.3b,3.3s			
NEIC	I	10 20 13 18.5–.37	1.94N	96.66E	35	4.3b,3.3s			
ISC	Event type se.								
IDC	Error ellipse: s-maj=23.7km s-min=13.8km az=45.0.								
ISCJB	Event type se. Error ellipse: s-maj=14.5km s-min=6.7km az=142.0.								
NEIC	Event type se. Error ellipse: s-maj=9.0km s-min=6.0km az=47.0.								
IDC	**I**	**15 13 20 50.3–23**	**1.81N**	**96.06E**	**0**	**3.7b,3.6**			
									¶17190248
IDC	Error ellipse: s-maj=465.5km s-min=43.0km az=13.0.								
IDC	**I**	**15 14 27 02.4–3.0**	**2.22N**	**95.84E**	**0**	**4.2L,4.0**			
									¶17190254
IDC	Error ellipse: s-maj=108.6km s-min=26.8km az=59.0.								
IDC	**I**	**15 14 37 56.3–2.6**	**2.49N**	**95.68E**	**0**	**3.7,3.6**			
									¶17190255
IDC	Error ellipse: s-maj=72.3km s-min=25.4km az=49.0.								
IDC	**I**	**15 14 38 43.7–2.3**	**1.84N**	**95.42E**	**0**	**3.8,3.7**			
									¶17190258

IDC Error ellipse: s-maj=61.1km s-min=25.7km az=52.0.
ISC I 16 18 00 00.4–1.8 2.1N–.20 95.8E–.20 27 3.4b 8 3-52
IDC I 16 17 59 56.4–1.8 2.09N 95.77E 0 3.7,3.6 ¶17190343
ISCJB I 16 17 59 58.4–1.3 2.1N–.10 95.8E–.20 27 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 12 23 10.0–.62 1.96N–.06 96.65E–.08 28 4.2b 40 1-143
IDC I 17 12 23 05.8–.85 1.92N 96.63E 0 4.3,4.2 ¶16151668
ISCJB I 17 12 23 08.0–.48 1.93N–.05 96.60E–.05 28 4.2b,4.2
DJA I 17 12 23 09.9–1.2 2N–4.0 97E–8.0 27–12 4.2,4.2
NEIC I 17 12 23 11.8–1.3 1.99N 96.74E 42–10 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=14.8km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=6.1km az=147.8.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=6.4km az=59.0.
IDC I 17 15 47 31.6–2.7 4.18N 94.21E 0 4.2L,3.8
¶17190414
IDC Error ellipse: s-maj=110.7km s-min=23.5km az=59.0.
IDC I 21 16 39 46.7–6.6 2.36N 95.68E 0 3.7b,3.7
¶17190684
IDC Error ellipse: s-maj=134.5km s-min=40.7km az=23.0.
ISC I 22 07 34 17.6–.41 2.94N–.03 95.55E–.04 30–2 5.3b,5.1s 589 2-173
IDC I 22 07 34 12.6–.36 2.90N 95.50E 0 4.8,4.7 ¶15957583
ISCJB I 22 07 34 15.2–.68 2.87N–.02 95.53E–.02 26–4 5.2b,5.2s
BJI I 22 07 34 15.4 2.95N 95.59E 26 5.4b,5.4s
MOS I 22 07 34 15.8–.96 2.93N 95.53E 31 5.5b,5.2s
DJA I 22 07 34 16.8–.20 3N–2.0 96E–2.0 10 5.9,5.7b
NEIC I 22 07 34 17.5–1.4 2.89N 95.52E 28–9 5.4b,5.7b
GCMT I 22 07 34 17.5–.40 2.48N 95.34E 36–1 5.2W,5.7b
KLM I 22 07 34 17.9 2.81N 95.51E 63 6.3s,5.4b
ISC Event type se.
IDC Error ellipse: s-maj=12.2km s-min=9.1km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=135.5.
MOS Error ellipse: s-maj=7.5km s-min=4.5km az=108.6.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=3.5km az=51.0.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s57,c70; s57,c76; Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}5.00±.37 $M_{\theta\theta}$-3.55±.29; $M_{\phi\phi}$-1.45±.35; $M_{r\theta}$3.72±.42; $M_{\theta\phi}$4.34±.25; $M_{\phi r}$-2.90±.47; Best double couple: NP1:ϕ_s128.00000°,δ64.00000° ,λ90.00000°. NP2:ϕ_s309.00000°,δ26.00000°,λ91.00000°. Principal axes: T 6.6360,Plg71.0000°,Azm37.0000°; N 1.9650,Plg0.0000°,Azm128.0000° ; P -8.6010,Plg19.0000°,Azm218.0000° $M_0$7.61800×10^{16}
ISC I 22 07 38 56.9–.40 2.90N–.03 95.50E–.03 28–2 5.5s,5.3b 598 2-173
BJI I 22 07 38 50.3 2.44N 95.36E 25 5.8s,5.6 ¶15957584
IDC I 22 07 38 51.4–.37 2.84N 95.44E 0 5.3,5.3s
ISCJB I 22 07 38 54.0–.63 2.87N–.02 95.51E–.02 20–4 5.5s,5.2b
MOS I 22 07 38 54.8–1.1 2.87N 95.50E 32 5.5b,5.5s
KLM I 22 07 38 55.7 2.84N 95.41E 47 6.3s,5.5L
GCMT I 22 07 38 56.5–.10 2.74N 95.32E 15 5.7W,5.5L
NEIC I 22 07 38 56.5–.23 2.90N 95.52E 24 5.6W,5.6b
DJA I 22 07 38 59.2–.20 3N–2.0 96E–2.0 10 6.2,5.8b
ISC Event type se.
ISCJB Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s107,c184; s103,c193;Duration: 1s5 Moment tensor: Scale 10^{17} Nm; M_{rr}1.20±.03 $M_{\theta\theta}$-0.73±.02; $M_{\phi\phi}$-0.47±.03; $M_{r\theta}$2.83±.08; $M_{\theta\phi}$0.68±.02; $M_{\phi r}$-3.45±.08; Best double couple: NP1:ϕ_s140.00000°,δ82.00000°,λ93.00000°. NP2:ϕ_s298.00000° ,δ8.00000°,λ68.00000°. Principal axes: T 4.6100,Plg53.0000°,Azm54.0000° ; N 0.0450,Plg3.0000°,Azm320.0000°; P -4.6570,Plg37.0000°,Azm228.0000° $M_0$4.63300×10^{17}
NEIC Event type se. Moment Tensor Solution. s29 Moment tensor: Scale 10^{17}Nm; M_{rr}3.15 $M_{\theta\theta}$0.49 $M_{\phi\phi}$-3.65 $M_{r\theta}$0.70 $M_{\theta\phi}$-0.46 $M_{\phi r}$-0.31 Best double couple: NP1:ϕ_s21.00000° ,δ45.00000°,λ111.00000°. NP2:ϕ_s172.00000°,δ49.00000°,λ71.00000°. Principal axes: T 3.3500,Plg75.0000°,Azm14.0000°; N 0.3600,Plg15.0000°,Azm185.0000° ; P -3.7100,Plg2.0000°,Azm276.0000° $M_0$3.50000×10^{17}
ISC I 22 09 28 32.6–1.2 5.3N–.20 93.9E–.20 43 3.9b 12 6-97
ISCJB I 22 09 28 30.7–.96 5.3N–.10 93.9E–.10 43 3.8b ¶17190730
IDC I 22 09 28 34.7–4.5 5.36N 94.14E 59–39 4.1L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.4km s-min=8.6km az=42.8.
IDC Error ellipse: s-maj=49.9km s-min=15.2km az=55.0.
IDC I 23 20 06 15.7–2.5 1.34N 96.38E 0 3.6,3.6b
¶17190829
IDC Error ellipse: s-maj=59.7km s-min=30.7km az=47.0.
ISC I 25 16 52 28.6–1.1 2.67N–.06 95.67E–.08 25 3.8b 23 2-54
IDC I 25 16 52 23.9–1.7 2.48N 95.51E 0 3.8,3.7 ¶17190974
ISCJB I 25 16 52 26.6–.74 2.61N–.05 95.60E–.06 25 3.8b,3.7
DJA I 25 16 52 27.2–.80 3N–3.0 96E–7.0 10 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 25 22 30 52.6–1.0 1.28N–.06 97.0E–.10 28 3.9b 25 1-56
IDC I 25 22 30 48.8–1.5 1.29N 96.98E 0 3.9,3.8 ¶17190991
ISCJB I 25 22 30 50.8–.75 1.31N–.06 96.91E–.07 28 3.8b,3.8
DJA I 25 22 30 56.1–.90 1N–4.0 97E–7.0 34–4 4.2b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 26 16 32 49.5–1.1 1.95N–.06 96.61E–.10 28 3.9b 21 1-53
IDC I 26 16 32 45.2–1.8 1.88N 96.55E 0 3.9,3.8b ¶17191048
ISCJB I 26 16 32 47.5–.91 1.89N–.05 96.49E–.08 28 3.8b,3.8b
DJA I 26 16 32 48.2–1.3 2N–3.0 97E–7.0 20–13 4.3b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 28 15 45 43.0–.47 1.97N–.04 96.71E–.04 24–2 4.9b,4.4s 320 1-145
BJI I 28 15 45 36.8 1.56N 96.70E 19 5.1b,4.8b ¶15978011
IDC I 28 15 45 39.3–.61 1.97N 96.77E 0 4.5,4.5b
NEIC I 28 15 45 40.5–.32 1.98N 96.73E 10 5.0b,4.5b
KLM I 28 15 45 41.4 1.98N 96.35E 30 6.0s,5.0b
MOS I 28 15 45 42.4–1.2 2.00N 96.80E 33 5.2b,4.7s
GCMT I 28 15 45 42.5–.60 1.49N 96.55E 40–2 4.9W,4.7s
ISCJB I 28 15 45 42.2–.83 1.97N–.03 96.71E–.03 29–6 4.8b,4.4s
DJA I 28 15 45 44.2–.70 2N–2.0 97E–4.0 19–6 5.2b,4.8b
ISC Event type se.
NEIC Event type se.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s38,c50; s54,c75;Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.81±.20 $M_{\theta\theta}$-1.25±.13; $M_{\phi\phi}$-0.56±.15; $M_{r\theta}$0.85±.15; $M_{\theta\phi}$1.71±.12; $M_{\phi r}$-1.17±.20; Best double couple: NP1:ϕ_s141.00000°,δ62.00000°,λ104.00000°. NP2:ϕ_s293.00000°,δ31.00000°,λ65.00000°. Principal axes: T 2.2970,Plg69.0000°,Azm81.0000°; N 0.7530,Plg13.0000°,Azm315.0000° ; P -3.0580,Plg16.0000°,Azm221.0000° $M_0$2.67800×10^{16}
ISCJB Event type se.
ISC I 28 16 25 27.3–1.3 1.92N–.06 96.4E–.10 28 3.8b 18 1-53
DJA I 28 16 25 23.6–.90 2N–3.0 96E–8.0 10 3.6,3.6 ¶17191201
IDC I 28 16 25 23.6–2.2 1.74N 96.39E 0 3.7,3.7b
ISCJB I 28 16 25 25.1–1.1 1.85N–.06 96.3E–.10 28 3.7b,3.7b
ISC Event type ke.
ISCJB Event type ke.
IDC I 31 18 47 36.0–2.7 5.11N 93.94E 0 3.9,3.9L
¶17191427
IDC Error ellipse: s-maj=106.5km s-min=24.3km az=61.0.
ISC I 31 22 12 38.2–.87 2.59N–.06 95.92E–.09 25 4.2b,3.8s 28 1-99
IDC I 31 22 12 33.7–1.7 2.50N 95.69E 0 4.1,4.1L ¶17191439
ISCJB I 31 22 12 36.6–.57 2.56N–.06 95.85E–.05 25 4.0b,3.9s
DJA I 31 22 12 40.5–.90 3N–5.0 96E–7.0 46–49 4.5b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC II 03 05 39 37.2–.44 3.44N–.05 95.78E–.05 38 4.7b,3.9s 193 1-146
KLM II 03 05 39 25.8 3.63N 94.94E 35 5.8s,4.5b ¶16000621
IDC II 03 05 39 31.5–.72 3.51N 95.86E 0 4.5,4.4b
BJI II 03 05 39 32.3 3.11N 95.52E 42 5.0b,4.5b
ISCJB II 03 05 39 35.4–.26 3.42N–.04 95.78E–.03 38 4.6b,3.8s
NEIC II 03 05 39 36.6–.23 3.45N 95.74E 35 4.7b,3.8s
DJA II 03 05 39 36.3–1.5 3N–4.0 96E–12 16–12 5.6,5.0b
MOS II 03 05 39 39.0–.93 3.61N 95.98E 66 4.8b,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=26.0km s-min=16.7km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.6km az=33.2.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=218.0.
MOS Error ellipse: s-maj=12.5km s-min=6.3km az=114.4.
ISC II 04 09 07 59.8–.65 5.66N–.09 93.30E–.07 29 4.4b 36 5-145
IDC II 04 09 07 55.4–.66 5.70N 93.29E 0 4.9,4.9s ¶16339705
ISCJB II 04 09 07 57.7–.56 5.63N–.08 93.23E–.06 29 4.8s,4.3b
NEIC II 04 09 08 00.6–.36 5.66N 93.23E 35 4.3b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=32.9km s-min=13.9km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=8.2km az=27.4.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=6.7km az=47.0.
ISC II 11 03 35 11.4–.97 0.2N–.10 94.45E–.08 35 4.1b 29 3-146
IDC II 11 03 35 05.5–2.9 0.06N 94.22E 0 4.2L,4.0 ¶16193673
ISCJB II 11 03 35 09.1–.76 0.24N–.09 94.40E–.06 33 4.0b,4.0
NEIC II 11 03 35 11.0–2.8 0.17N 94.33E 34–20 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=63.1km s-min=36.9km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=8.1km az=2.7.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.7km az=211.0.
ISC II 13 12 13 31.7–.90 2.50N–.05 95.79E–.08 25 4.1b 25 2-55
IDC II 13 12 13 28.4–1.6 2.57N 95.84E 0 3.9,3.9 ¶17192152
ISCJB II 13 12 13 29.6–.72 2.42N–.05 95.72E–.06 25 3.9b,3.9
DJA II 13 12 13 33.0–1.5 3N–5.0 96E–14 10 4.7b,4.7b
ISC Event type ke.
ISCJB Event type ke.
ISC II 15 08 42 07.4–1.7 2.0N–.20 96.8E–.20 28 3.9b,3.6s 7 2-65
IDC II 15 08 42 01.9–2.1 1.76N 96.46E 0 5.1L,4.0 ¶17192292
ISC Event type ke.
IDC Error ellipse: s-maj=49.4km s-min=26.7km az=50.0.
ISC II 19 22 05 40.1–.71 5.66N–.07 92.96E–.06 28 4.1b 46 2-79
IDC II 19 22 05 35.3–1.0 5.50N 92.93E 0 4.1,4.1L ¶16362997
NEIC II 19 22 05 36.3–2.7 5.52N 92.89E 7–17 4.3b,4.1L
ISCJB II 19 22 05 37.7–.54 5.50N–.06 92.97E–.04 28 4.0b,3.3s
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
IDC II 20 00 02 55.0–1.8 5.61N 93.02E 0 3.8,3.6
¶17192559
IDC Error ellipse: s-maj=45.2km s-min=28.7km az=52.0.
IDC II 21 22 39 05.5–2.0 4.90N 93.83E 0 3.8,3.7
¶17192663
IDC Error ellipse: s-maj=78.8km s-min=27.2km az=56.0.
IDC II 22 19 50 53.2–2.5 1.91N 96.03E 0 3.7,3.7L
¶17192723
IDC Error ellipse: s-maj=94.4km s-min=25.7km az=56.0.
IDC II 24 07 04 40.9–3.3 3.30N 93.90E 0 4.4L,4.0
¶17192774
IDC Error ellipse: s-maj=118.7km s-min=28.2km az=62.0.
ISC II 28 23 10 25.3–.35 3.89N–.04 95.85E–.04 55–2 4.8b,3.6s 428 1-160
MOS II 28 23 10 23.5–1.1 4.12N 96.01E 47 5.0b,3.6s ¶16166886
BJI II 28 23 10 23.5 4.10N 96.00E 34 4.8b,4.8b
ISCJB II 28 23 10 24.6–.46 3.88N–.02 95.90E–.03 66–4 4.7b,4.8b
KLM II 28 23 10 25.1 4.02N 95.78E 60 5.8s,4.9b
IDC II 28 23 10 26.0–.50 4.11N 95.94E 54–3 4.6,4.4
NEIC II 28 23 10 26.6–.61 3.97N 95.96E 63–5 5.0b,4.4
DJA II 28 23 10 28.3–.70 4N–3.0 96E–7.0 50–10 5.0b,5.0b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Meulaboh.
ISC III 01 05 42 09.6–2.7 2.00N–.05 96.4E–.10 24–18 3.9b 17 1-79
IDC III 01 05 42 05.0–1.8 1.69N 96.09E 0 4.4L,4.0 ¶17193043
DJA III 01 05 42 10.9–1.1 2N–3.0 97E–7.0 50–15 3.5,3.5
ISCJB III 01 05 42 10.3–1.9 2.02N–.05 96.5E–.10 38–17 3.8b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 14 10 32.8–.38 2.77N–.05 95.36E–.05 27 4.7b 168 2-159
BJI III 06 14 10 29.2 2.70N 95.43E 18 5.1b,4.8s ¶16245372
ISCJB III 06 14 10 31.4–.26 2.75N–.03 95.35E–.03 27 4.5b,4.3s
IDC III 06 14 10 34.4–8.7 2.77N 95.37E 33–65 4.5L,4.4
NEIC III 06 14 10 34.0–2.3 2.77N 95.40E 33–16 4.8b,4.4
DJA III 06 14 10 36.7–2.3 3N–3.0 96E–6.0 22–26 5.0b,4.8b
KLM III 06 14 10 44.5 2.84N 96.03E 50 5.2s,4.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.1km s-min=3.0km az=43.2.
IDC Error ellipse: s-maj=17.0km s-min=11.7km az=61.0.
NEIC Event type se. Error ellipse: s-maj=9.1km s-min=4.5km az=59.0.
IDC III 06 20 59 55.7–3.3 4.63N 94.31E 0 3.9L,3.7
¶17193381
IDC Error ellipse: s-maj=123.1km s-min=32.8km az=65.0.
ISC III 10 12 08 54.6–1.5 1.4N–.20 95.3E–.20 35 4.0b 10 4-144
IDC III 10 12 08 48.1–1.7 1.23N 94.85E 0 4.0b,3.9 ¶17193623
ISCJB III 10 12 08 52.1–1.5 1.4N–.20 95.2E–.20 33 4.0b,3.7s
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 09 52 25.4–1.2 0.69N–.07 96.0E–.10 35 3.6b 18 2-145
IDC III 16 09 52 21.3–3.4 0.69N 96.41E 0 3.6,3.6 ¶17196422
ISCJB III 16 09 52 22.9–.00 0.68N–.05 96.03E–.08 33 3.6b,3.6
DJA III 16 09 52 25.8–.70 1N–3.0 96E–8.0 125–11 4.9b,4.1
ISC Event type ke.
ISCJB Event type ke.
ISC III 16 22 56 19.9–3.9 1.9N–.50 95.0E–.20 21 4.0b 7 4-55
IDC III 16 22 56 16.3–5.8 1.88N 94.90E 0 4.0,4.0b ¶17196560
ISC Event type ke.
IDC Error ellipse: s-maj=114.9km s-min=40.2km az=13.0.
ISC III 20 04 35 50.2–1.7 1.98N–.08 96.3E–.20 35 3.5b 9 1-60
ISCJB III 20 04 35 48.2–1.2 1.95N–.07 96.2E–.10 35 3.5s,3.3b ¶17197384
DJA III 20 04 35 49.1–1.8 2N–5.0 96E–15 57–27 3.0,3.0
IDC III 20 04 35 52.6–10 2.97N 96.43E 0 3.5,3.4b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=14.8km s-min=9.4km az=5.6.
IDC Error ellipse: s-maj=495.5km s-min=33.0km az=55.0.
IDC III 26 09 41 57.5–3.1 2.41N 95.26E 0 4.0L,3.6
¶16480997
IDC Error ellipse: s-maj=121.5km s-min=27.7km az=57.0.
ISC III 26 22 54 35.6–1.0 3.0N–.20 90.86E–.10 35 3.8b 12 7-93
IDC III 26 22 54 30.2–1.6 2.90N 90.81E 0 4.0,4.0L ¶16481084
NEIC III 26 22 54 32.3–.86 2.96N 90.85E 10 4.0b,4.0L
ISCJB III 26 22 54 33.2–1.2 2.9N–.20 90.95E–.09 33 3.8b,4.0L
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 27 19 53 49.5–1.2 1.88N–.06 96.59E–.08 28 3.8b 19 1-55
IDC III 27 19 53 44.9–2.0 1.63N 96.32E 0 3.7,3.7b ¶17198840
DJA III 27 19 53 47.7–.90 2N–3.0 96E–7.0 10 4.0b,3.7
ISCJB III 27 19 53 48.3–.77 1.89N–.05 96.57E–.06 28 3.8b,3.7
ISC Event type ke.
ISCJB Event type ke.
IDC III 27 22 35 22.2–3.5 4.46N 94.92E 0 3.9,3.8
¶17198860
IDC Error ellipse: s-maj=139.1km s-min=26.6km az=57.0.
ISC III 29 20 25 48.4–2.0 1.8N–.20 96.2E–.20 35 3.6b 6 3-53
IDC III 29 20 25 43.2–2.3 1.72N 96.15E 0 3.7,3.6 ¶17199107
ISCJB III 29 20 25 46.1–1.7 1.7N–.20 96.1E–.20 33 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 29 20 44 50.1–.74 4.00N–.07 96.00E–.08 50 4.0b 28 2-80
IDC III 29 20 44 42.0–1.4 3.72N 95.51E 0 3.9,3.8 ¶17199110

ISCJB III 29 20 44 48.0–.58 3.94N–.07 95.91E–.08 50 4.0b,3.8
NEIC III 29 20 44 52.0–1.3 3.93N 95.98E 74–11 4.4b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=56.8km s-min=18.6km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=5.9km az=139.1.
NEIC Event type se. Error ellipse: s-maj=19.0km s-min=8.0km az=63.0.
ISC IV 02 00 07 43.7–.89 2.59N–.07 95.97E–.07 25 4.0b 18 1-81
IDC IV 02 00 07 46.7–5.0 2.54N 95.85E 48–44 3.8,3.8L ¶17199470
DJA IV 02 00 07 46.9–1.0 3N–5.0 96E–8.0 10 4.3b,3.9
ISC Event type ke.
IDC IV 02 12 35 32.3–10 3.20N 95.97E 0 4.0L,3.6
¶17199523
IDC Error ellipse: s-maj=198.5km s-min=102.8km az=152.0.
ISC IV 06 14 41 31.7–1.6 1.32N–.10 96.9E–.20 35 3.8b 8 1-53
IDC IV 06 14 41 30.0–4.1 1.91N 96.74E 0 3.7,3.6 ¶17200014
DJA IV 06 14 41 37.0–.70 1N–4.0 97E–9.0 27–6 2.9,2.9
ISC Event type ke.
ISC IV 07 15 45 47.6–1.9 1.1N–.10 96.9E–.20 25 3.6b 11 1-56
IDC IV 07 15 45 49.9–1.6 1.93N 96.94E 0 3.6,3.5 ¶17200129
DJA IV 07 15 45 54.7–2.3 1N–15 97E–16 10 3.3,3.3
ISC Event type ke.
ISC IV 08 22 07 30.7–.93 1.81N–.08 96.56E–.09 28 4.2b 17 1-64
IDC IV 08 22 07 26.7–2.0 1.80N 96.56E 0 4.0,3.8 ¶16509624
ISCJB IV 08 22 07 28.6–.72 1.80N–.07 96.51E–.07 28 4.2b,3.8
NEIC IV 08 22 07 30.8–2.4 1.83N 96.57E 28–18 4.3b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=41.9km s-min=25.4km az=38.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=9.3km az=163.5.
NEIC Event type se. Error ellipse: s-maj=13.0km s-min=6.8km az=74.0.
IDC IV 13 15 17 55.6–2.4 3.97N 93.88E 0 3.9L,3.8
¶17200909
IDC Error ellipse: s-maj=72.7km s-min=22.4km az=59.0.
ISC IV 14 14 33 19.8–1.7 1.40N–.08 96.9E–.10 28 3.4b 9 1-53
IDC IV 14 14 33 15.6–1.9 1.00N 96.59E 0 3.5,3.4 ¶17201032
ISCJB IV 14 14 33 19.2–1.0 1.22N–.07 96.85E–.08 28 3.4b,3.4
DJA IV 14 14 33 22.8–1.3 1N–5.0 97E–11 34–8 3.1,3.1
ISC Event type ke.
ISCJB Event type ke.
ISC IV 14 21 27 57.0–1.8 1.9N–.20 96.8E–.20 10 3.9b 8 1-56
DJA IV 14 21 27 34.9–6.2 1N–13 95E–32 20–117 4.0,4.0 ¶17201064
IDC IV 14 21 27 50.4–8.8 1.30N 97.39E 0 3.7,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=178.5km s-min=97.8km az=145.0.
IDC IV 19 19 53 16.1–2.8 4.66N 93.28E 0 3.5L,3.4
¶17201538
IDC Error ellipse: s-maj=107.5km s-min=32.3km az=61.0.
ISC IV 20 11 31 47.6–.44 4.70N–.05 94.44E–.05 42–3 4.5b,4.0s 196 2-159
BJI IV 20 11 31 43.3 4.41N 94.54E 38 4.6b,4.6b ¶16450790
ISCJB IV 20 11 31 46.8–.78 4.69N–.04 94.54E–.04 51–7 4.5b,3.9s
MOS IV 20 11 31 46.9–.96 4.73N 94.59E 53 4.8b,3.9s
IDC IV 20 11 31 48.4–.62 4.77N 94.55E 47–5 4.3,4.2
NEIC IV 20 11 31 48.0–.56 4.73N 94.54E 46–5 4.7b,4.2
KLM IV 20 11 31 49.7 4.80N 94.61E 10 5.7s,4.6b
DJA IV 20 11 31 50.8–.60 5N–3.0 95E–4.0 47–8 4.9b,4.6
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.
ISC IV 24 06 45 52.7–.98 1.13N–.09 96.81E–.09 25 4.0b 24 1-144
DJA IV 24 06 45 45.9–4.0 1N–17 96E–24 19–17 4.3b,4.2 ¶16577875
IDC IV 24 06 45 48.8–1.4 1.08N 96.80E 0 4.0,4.0
ISCJB IV 24 06 45 50.5–.65 1.09N–.06 96.77E–.07 25 4.0b,4.0
NEIC IV 24 06 45 54.3–.49 1.12N 96.88E 35 4.0b,4.0
ISC Event type ke.
IDC Error ellipse: s-maj=40.0km s-min=16.9km az=61.0.
ISCJB Event type ke. Error ellipse: s-maj=9.5km s-min=8.9km az=165.8.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=7.1km az=64.0.
ISC IV 24 23 20 09.1–2.0 5.0N–.20 92.6E–.20 27 3.8b 7 7-49
IDC IV 24 23 20 04.5–2.7 4.91N 92.45E 0 3.9L,3.7 ¶17201993
ISCJB IV 24 23 20 07.3–1.6 5.0N–.20 92.6E–.20 27 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 28 14 52 11.8–1.6 4.6N–.20 94.9E–.20 48 3.8b 9 4-79
IDC IV 28 14 52 15.1–7.6 4.75N 95.17E 74–57 3.7,3.6 ¶17202310
ISC Event type ke.
IDC Error ellipse: s-maj=114.1km s-min=18.4km az=54.0.
IDC IV 30 05 20 15.3–2.0 0.75N 96.99E 0 3.7,3.6b
¶17202437
IDC Error ellipse: s-maj=54.6km s-min=27.1km az=62.0.
DJA V 04 18 09 02.4–1.1 2N–4.0 97E–8.0 10 3.5,3.5
¶602004191
ISC V 05 10 42 17.7–.63 2.53N–.05 95.66E–.08 25 4.2b 47 2-143
IDC V 05 10 42 14.0–.98 2.58N 95.75E 0 4.2,4.2 ¶16708901
ISCJB V 05 10 42 15.5–.53 2.43N–.05 95.61E–.06 25 4.2b,4.2
NEIC V 05 10 42 18.7–3.6 2.59N 95.77E 31–24 4.1b,4.2
DJA V 05 10 42 18.0–1.1 3N–4.0 96E–10 10 5.1b,4.6b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC V 05 11 24 57.0–2.0 2.55N 95.74E 0 3.8,3.7
¶17202842
IDC Error ellipse: s-maj=88.0km s-min=21.7km az=54.0.
ISC V 11 03 14 21.7–1.4 3.7N–.10 93.69E–.09 19 4.0b 14 3-52
IDC V 11 03 14 18.8–7.2 3.79N 93.79E 0 4.0s,4.0 ¶17203347
DJA V 11 03 14 32.8–.90 3N–6.0 94E–7.0 54–32 6.1b,5.7
ISC Event type ke.
ISC V 12 08 32 40.9–.54 4.74N–.07 94.95E–.06 48 4.4b,3.6s 116 2-128
DJA V 12 08 32 38.6–1.1 5N–8.0 95E–8.0 186–9 6.0,5.1b ¶16506967
MOS V 12 08 32 38.4–.98 4.80N 95.22E 43 4.7b,5.1b
NEIC V 12 08 32 38.9–.41 4.59N 94.88E 35 4.5b,5.1b
ISCJB V 12 08 32 39.3–.38 4.77N–.06 95.05E–.04 48 4.4b,3.7s
IDC V 12 08 32 41.0–.76 4.71N 95.10E 55–5 4.2,4.0
ISC Event type se.
MOS Error ellipse: s-maj=19.4km s-min=7.5km az=114.4.
NEIC Event type se. Error ellipse: s-maj=12.2km s-min=5.9km az=218.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.5km az=27.7.
IDC Error ellipse: s-maj=26.5km s-min=12.7km az=44.0.
ISC V 21 02 25 07.4–.87 1.85N–.07 96.64E–.09 28 3.9b 25 1-143
IDC V 21 02 25 02.9–1.4 1.80N 96.53E 0 4.3L,3.9 ¶16601768
ISCJB V 21 02 25 05.5–.64 1.85N–.05 96.52E–.07 28 3.8b,3.9
DJA V 21 02 25 07.7–1.6 2N–6.0 97E–15 54–37 3.3,3.3
NEIC V 21 02 25 08.3–2.2 1.89N 96.62E 35–18 4.2b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=55.3km s-min=19.7km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.5km az=152.0.
NEIC Event type se. Error ellipse: s-maj=27.1km s-min=8.7km az=62.0.
IDC V 21 06 19 31.5–3.3 4.77N 93.61E 0 3.7,3.7L
¶17204113
IDC Error ellipse: s-maj=112.2km s-min=32.4km az=61.0.
ISC V 23 04 32 13.9–1.2 4.9N–.20 93.8E–.30 34 3.8b 9 14-91
IDC V 23 04 32 08.6–1.3 4.81N 93.75E 0 3.9,3.8b ¶17204279
ISCJB V 23 04 32 12.1–1.1 4.9N–.20 93.8E–.20 34 3.8b,3.8b
ISC Event type ke.
ISCJB Event type ke.
IDC V 23 19 08 26.3–2.8 5.12N 93.76E 0 3.8L,3.7
¶17204317
IDC Error ellipse: s-maj=106.7km s-min=23.9km az=62.0.
IDC V 30 17 48 17.2–3.5 2.03N 95.78E 0 3.6,3.5b
¶17204774
IDC Error ellipse: s-maj=135.3km s-min=28.1km az=58.0.
ISC V 30 21 46 48.3–.51 2.52N–.05 95.87E–.07 25 4.5b,3.4s 110 2-83
IDC V 30 21 46 44.6–.77 2.53N 95.91E 0 4.3,4.2 ¶16702341

ISCJB V 30 21 46 46.5–.32 2.48N–.04 95.85E–.04 25 4.4b,3.4s
DJA V 30 21 46 47.6–.90 3N–4.0 96E–9.0 10 5.2b,4.6
NEIC V 30 21 46 50.1–1.1 2.56N 95.93E 36–8 4.5b,4.6
ISC Event type se.
IDC Error ellipse: s-maj=26.7km s-min=11.9km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.7km az=137.3.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=4.4km az=56.0.
ISC VI 07 02 54 23.7–.26 1.14N–.03 96.74E–.04 35 4.9b,4.1s 391 1-159
IDC VI 07 02 54 18.0–.37 1.14N 96.69E 0 4.7,4.6 ¶16560657
KLM VI 07 02 54 19.6 1.22N 96.48E 21 5.8s,5.3L
BJI VI 07 02 54 20.4 0.78N 96.76E 43 5.1b,5.0b
MOS VI 07 02 54 21.7–.95 1.20N 96.72E 33 5.0b,4.1s
ISCJB VI 07 02 54 21.5–.17 1.13N–.02 96.76E–.02 33 4.8b,4.2s
DJA VI 07 02 54 22.2–.80 1N–2.0 97E–3.0 33–8 5.6b,5.2
GCMT VI 07 02 54 23.2–.30 1.20N 96.76E 13–1 4.9W,5.2
NEIC VI 07 02 54 23.2–1.6 1.14N 96.75E 34–11 5.0b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=59.0.
MOS Error ellipse: s-maj=8.7km s-min=5.0km az=107.2.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.4km az=37.0.
GCMT Error ellipse: s-maj=2.2km s-min=2.2km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s31,c36; s82,c115; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.97±.11 $M_{\theta\theta}$0.70±.07; $M_{\phi\phi}$1.27±.08; $M_{r\theta}$1.67±.24; $M_{\theta\phi}$-0.54±.05; $M_{\phi r}$-1.33±.22; Best double couple: NP1:ϕ_s314.00000°,δ70.00000°,λ-97.00000°. NP2:ϕ_s155.00000°,δ21.00000°,λ-70.00000°. Principal axes: T 2.5410,Plg25.0000°,Azm50.0000°; N 0.4630,Plg7.0000°,Azm316.0000°; P -3.0040,Plg64.0000°,Azm212.0000° $M_0$2.77200×10^{16}
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=3.7km az=56.0.
DJA VI 07 03 05 19.3–1.3 1N–5.0 97E–8.0 19–9 3.5,3.5
¶602004480
ISC VI 07 03 27 40.5–.86 1.11N–.05 96.80E–.06 48–7 4.4b,4.1s 123 1-150
IDC VI 07 03 27 33.6–.48 1.06N 96.61E 0 4.5L,4.4 ¶16577411
DJA VI 07 03 27 36.8–1.5 1N–3.0 97E–7.0 34–17 5.3b,5.0b
ISCJB VI 07 03 27 36.5–1.4 1.11N–.03 96.77E–.05 29–10 4.4b,4.0s
NEIC VI 07 03 27 37.2–2.6 1.08N 96.75E 24–18 4.5b,4.0s
KLM VI 07 03 27 38.7 1.09N 96.70E 43 5.6s,4.7b
BJI VI 07 03 27 38.5 0.91N 96.85E 60 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=18.7km s-min=12.2km az=59.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=5.0km az=160.1.
NEIC Event type se. Error ellipse: s-maj=11.1km s-min=5.3km az=60.0.
ISC VI 07 10 53 48.1–.58 1.15N–.05 96.94E–.06 25 4.5b 94 1-145
IDC VI 07 10 53 43.5–.95 1.03N 96.67E 0 4.4,4.3b ¶16577419
DJA VI 07 10 53 45.2–.60 1N–3.0 96E–6.0 53–12 5.0b,4.7b
ISCJB VI 07 10 53 46.2–.36 1.15N–.03 96.91E–.04 25 4.4b,3.2s
BJI VI 07 10 53 47.9 1.07N 97.07E 37 4.8b,4.6b
NEIC VI 07 10 53 49.3–.51 1.12N 96.90E 35 4.6b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=35.6km s-min=13.3km az=64.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.9km az=151.9.
NEIC Event type se. Error ellipse: s-maj=11.3km s-min=7.1km az=49.0.
ISC VI 08 15 57 27.1–1.4 3.91N–.06 95.91E–.09 56–11 4.2b 53 1-142
ISCJB VI 08 15 57 27.4–.94 3.91N–.05 95.93E–.07 77–8 4.1b ¶16684509
NEIC VI 08 15 57 28.4–1.1 3.90N 95.89E 70–9 4.3b
IDC VI 08 15 57 30.7–6.0 4.00N 95.94E 86–52 4.3L,4.2
DJA VI 08 15 57 30.5–1.1 4N–4.0 96E–7.0 20–5 4.2,4.2
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [II] at Meulaboh.
ISC VI 08 16 32 19.0–.34 1.17N–.03 96.75E–.03 23–1 5.3b,4.7s 893 1-157
BJI VI 08 16 32 15.5 1.01N 96.78E 20 5.5s,5.3 ¶16577432
IDC VI 08 16 32 15.3–.34 1.14N 96.76E 0 5.1,5.1b
KLM VI 08 16 32 17.3 1.19N 96.65E 10 6.2s,5.3b
NEIC VI 08 16 32 18.5–1.1 1.17N 96.78E 21–7 5.3b,5.3W
MOS VI 08 16 32 18.2–1.0 1.23N 96.75E 28 5.4b,4.7s
GCMT VI 08 16 32 18.5–.20 1.22N 96.70E 12 5.3W,4.7s
ISCJB VI 08 16 32 18.0–.65 1.16N–.02 96.77E–.02 29–4 5.2b,4.8s
DJA VI 08 16 32 19.9–.20 1N–2.0 97E–2.0 10 5.5b,5.4
ISC Event type fe.
NEIC Event type fe. Felt at Kuala Lumpur, Malaysia. Moment Tensor Solution. s18 Moment tensor: Scale 10^{16}Nm; M_{rr}-5.54 $M_{\theta\theta}$2.67 $M_{\phi\phi}$2.87 $M_{r\theta}$5.78 $M_{\theta\phi}$-2.01 $M_{\phi r}$-5.42 Best double couple: NP1:ϕ_s138.00000°,δ17.00000°,λ-86.00000°. NP2:ϕ_s314.00000°,δ73.00000°,λ-91.00000°. Principal axes: T 9.0600,Plg28.0000°,Azm45.0000°; N 0.7700,Plg1.0000°,Azm314.0000°; P -9.8300,Plg62.0000°,Azm222.0000° $M_9$9.50000×10^{16}
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s71,c105; s107,c188;Duration: 1s1 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.59±.01 $M_{\theta\theta}$0.27±.01; $M_{\phi\phi}$0.32±.01; $M_{r\theta}$0.89±.03; $M_{\theta\phi}$-0.25±.01; $M_{\phi r}$-0.32±.03; Best double couple: NP1:ϕ_s295.00000°,δ75.00000°,λ-100.00000°. NP2:ϕ_s151.00000°,δ18.00000°,λ-56.00000°. Principal axes: T 1.0360,Plg29.0000°,Azm33.0000°; N 0.1230,Plg10.0000°,Azm298.0000°; P -1.1590,Plg59.0000°,Azm191.0000° $M_0$1.09800×10^{17}
ISCJB Event type fe.
ISC VI 08 16 34 27.8–.66 1.1N–.10 96.7E–.10 35 4.4b 27 17-145
IDC VI 08 16 34 22.4–.64 1.11N 96.72E 0 4.4,4.3 ¶16684510
ISCJB VI 08 16 34 25.8–.52 1.12N–.08 96.75E–.10 33 4.3b,4.3
NEIC VI 08 16 34 27.7–.36 1.11N 96.72E 35 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=17.7km az=81.0.
ISCJB Event type se. Error ellipse: s-maj=14.6km s-min=11.6km az=155.6.
NEIC Event type se. Error ellipse: s-maj=11.8km s-min=9.1km az=65.0.
ISC VI 08 16 41 06.7–.92 0.99N–.08 96.49E–.09 35 4.0b 27 1-144
DJA VI 08 16 40 57.5–2.1 1N–8.0 96E–7.0 25–27 4.3,4.3 ¶16684511
IDC VI 08 16 41 01.2–1.6 0.81N 96.41E 0 4.0,3.9
ISCJB VI 08 16 41 05.1–.71 1.06N–.06 96.67E–.08 33 4.1b,3.9
NEIC VI 08 16 41 07.3–.70 1.08N 96.72E 35 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=53.9km s-min=16.9km az=56.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=8.3km az=154.3.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=9.9km az=67.0.
ISC VI 08 17 29 29.2–.88 1.09N–.07 96.62E–.08 35 3.9b 31 1-69
IDC VI 08 17 29 22.6–1.1 0.78N 96.31E 0 4.1L,3.9 ¶16856684
ISCJB VI 08 17 29 26.6–.63 1.07N–.04 96.59E–.06 33 3.8b,3.9
DJA VI 08 17 29 26.1–1.2 1N–3.0 97E–5.0 24–12 4.3b,4.1
NEIC VI 08 17 29 30.7–.79 1.09N 96.95E 35 4.0b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=31.0km s-min=14.7km az=68.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.3km az=167.8.
NEIC Event type se. Error ellipse: s-maj=17.1km s-min=9.4km az=63.0.
IDC VI 08 17 32 27.7–7.4 0.66N 96.43E 0 3.4,3.3
¶17205563
IDC Error ellipse: s-maj=348.6km s-min=23.1km az=56.0.
IDC VI 08 22 26 49.6–4.3 1.19N 96.83E 0 4.0,3.9
¶17205576
IDC Error ellipse: s-maj=213.6km s-min=27.1km az=53.0.
ISC VI 13 18 48 02.5–.77 1.81N–.06 97.0E–.10 28 4.1b 26 1-84
IDC VI 13 18 47 58.5–1.4 1.81N 97.19E 0 4.0,3.9 ¶16730420
ISCJB VI 13 18 47 59.9–.70 1.67N–.07 96.93E–.08 28 4.0b,3.9
DJA VI 13 18 47 59.4–1.1 2N–5.0 97E–10 75–15 7.2,4.2b
NEIC VI 13 18 48 05.0–1.2 1.83N 97.17E 49–11 4.4b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=50.1km s-min=19.6km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=9.3km az=165.2.
NEIC Event type se. Error ellipse: s-maj=17.0km s-min=9.2km az=77.0.
IDC VI 19 05 19 16.0–2.7 3.24N 95.35E 0 4.2L,4.1
¶17206508
IDC Error ellipse: s-maj=117.1km s-min=19.5km az=58.0.
ISC VI 24 01 54 41.4–.73 3.85N–.05 95.87E–.08 50 3.8b 31 1-80
IDC VI 24 01 54 34.6–1.2 3.87N 95.87E 0 4.6L,4.0 ¶16731337
ISCJB VI 24 01 54 39.5–.56 3.83N–.05 95.80E–.05 50 4.0b,3.6s
NEIC VI 24 01 54 41.4–1.4 3.88N 95.83E 50–12 4.0b,3.6s

DJA VI 24 01 54 43.9–.80 4N–5.0 96E–5.0 23–7 3.9,3.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC VI 24 08 36 06.0–3.1 1.91N 96.41E 0 4.4L,4.0
¶17206860
IDC Error ellipse: s-maj=113.1km s-min=26.8km az=59.0.
ISC VI 26 21 13 04.2–1.3 2.1N–.10 94.9E–.10 21 3.7b 11 2-52
IDC VI 26 21 12 58.5–3.0 1.77N 94.40E 0 4.0L,3.8 **¶17207025**
DJA VI 26 21 13 39.6–1.0 2N–5.0 98E–9.0 163–9 3.3,3.3
ISC Event type ke.

(706) Northern Sumatera.

ISC I 01 16 54 54.9–1.9 3.2N–.20 96.5E–.20 31 3.2b 7 2-52
IDC I 01 16 54 47.9–2.1 2.80N 95.90E 0 3.4,3.3 **¶17189148**
ISC Event type ke.
IDC Error ellipse: s-maj=65.5km s-min=20.6km az=57.0.
ISC I 01 21 45 14.9–1.3 1.6N–.20 100.1E–.30 166 3.5b 9 2-54
ISCJB I 01 21 45 14.4–1.0 1.7N–.20 100.2E–.20 166 3.3b **¶17189163**
IDC I 01 21 45 15.4–1.8 1.37N 99.58E 187–9 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=32.1km s-min=11.7km az=43.4.
IDC Error ellipse: s-maj=90.3km s-min=16.0km az=60.0.
DJA I 06 02 26 05.9–.30 3N–3.0 98E–2.0 10 4.2,4.2
¶601988875
IDC I 07 06 33 54.8–1.6 2.64N 99.47E 130–70 3.7,3.4
¶17189624
IDC Error ellipse: s-maj=303.7km s-min=19.5km az=55.0.
IDC I 08 20 50 12.9–2.8 1.27N 97.34E 0 3.6,3.6b
¶602426835
IDC Error ellipse: s-maj=115.9km s-min=21.7km az=59.0.
ISC I 10 03 10 47.2–.98 2.31N–.05 96.30E–.09 27 4.1b 23 1-81
IDC I 10 03 10 42.5–1.9 2.14N 96.14E 0 4.0,3.9b **¶17189812**
ISCJB I 10 03 10 45.3–.73 2.29N–.04 96.22E–.07 27 3.9b,3.9b
DJA I 10 03 10 46.6–1.5 2N–3.0 96E–7.0 27–16 4.4b,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 11 10 50 02.2–1.1 1.05N–.08 97.27E–.10 25 4.0b 15 0-54
IDC I 11 10 49 58.1–1.7 0.97N 97.24E 0 4.5L,3.8 **¶17189911**
DJA I 11 10 50 02.1–1.6 1N–9.0 97E–10 23–9 3.6,3.6
ISC Event type ke.
IDC I 11 21 16 14.4–.75 2.91N 99.03E 179–15 3.5,3.1
¶17189948
IDC Error ellipse: s-maj=88.9km s-min=15.3km az=61.0.
ISC I 14 03 55 28.5–.64 4.92N–.05 96.14E–.05 29 3.9b 32 1-93
IDC I 14 03 55 24.2–1.0 5.20N 96.26E 0 4.0L,3.8 **¶16002297**
ISCJB I 14 03 55 26.0–.45 5.00N–.05 96.02E–.05 29 3.8b,3.8s
DJA I 14 03 55 27.4–1.2 5N–4.0 96E–11 10 4.9b,4.2
NEIC I 14 03 55 30.8–.95 5.23N 96.20E 50–10 4.1b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=62.0km s-min=16.1km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=5.7km az=135.8.
NEIC Event type se. Error ellipse: s-maj=14.6km s-min=8.3km az=223.0.
ISC I 15 10 34 28.9–1.5 1.3N–.20 97.3E–.20 28 4.1b,3.4s 9 2-82
IDC I 15 10 34 24.1–1.6 1.25N 97.14E 0 4.2,4.0 **¶17190243**
ISCJB I 15 10 34 26.9–1.2 1.3N–.10 97.2E–.20 28 4.0b,3.4s
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 11 23 54.3–.31 2.48N–.03 96.29E–.03 28–1 5.7b,5.6s 1299 1-174
BJI I 15 11 23 50.7 2.44N 96.31E 22 6.0s,5.9b **¶15931118**
ISCJB I 15 11 23 51.6–.57 2.43N–.02 96.27E–.02 23–4 5.7b,5.6s
NEIC I 15 11 23 52.9–.13 2.49N 96.28E 17 5.8b,5.7
KLM I 15 11 23 53.6 2.45N 96.33E 9 6.8s,5.8b
MOS I 15 11 23 53.8–1.1 2.60N 96.33E 36 5.9b,5.5s
GCMT I 15 11 23 53.2–.10 2.26N 96.13E 17–0 5.8W,5.5s
DJA I 15 11 23 53.2–.20 2N–2.0 96E–3.0 10 6.1b,5.9
IDC I 15 11 23 55.0–2.5 2.56N 96.32E 33–18 5.4,5.4s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.3km az=44.0.
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.3km az=32.0. Felt [IV] at Sinabang. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s60 Moment tensor: Scale 10^{17}Nm; M_{rr}2.81 $M_{\theta\theta}$0.69 $M_{\phi\phi}$-3.50 $M_{r\theta}$2.16 $M_{\theta\phi}$1.39 $M_{\phi r}$-0.60 Best double couple: NP1:ϕ_s11.00000°,δ43.00000° ,λ137.00000°. NP2:ϕ_s135.00000°,δ62.00000°,λ55.00000°. Principal axes: T 4.1600,Plg57.0000°,Azm357.0000°; N -0.0200,Plg30.0000°,Azm153.0000° ; P -4.1500,Plg11.0000°,Azm249.0000° $M_0$4.20000×10^{17}
MOS Error ellipse: s-maj=7.5km s-min=4.2km az=115.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c218; s118,c280;Duration: 1s8 Moment tensor: Scale 10^{17}Nm; M_{rr}2.57±.04 $M_{\theta\theta}$-1.50±.03; $M_{\phi\phi}$-1.07±.04; $M_{r\theta}$3.32±.14; $M_{\theta\phi}$1.26±.02; $M_{\phi r}$-3.38±.15; Best double couple: NP1: ϕ_s135.00000°,δ76.00000°,λ92.00000°. NP2:ϕ_s306.00000°,δ14.00000°,λ81.00000°. Principal axes: T 5.4000,Plg59.0000°,Azm48.0000°; N -0.0240,Plg2.0000°,Azm314.0000° ; P -5.3760,Plg31.0000°,Azm223.0000° $M_0$5.38800×10^{17}
IDC Error ellipse: s-maj=12.2km s-min=9.2km az=52.0.
ISC I 15 11 36 07.1–.65 2.35N–.04 96.29E–.04 29–4 5.1s,5.0b 237 1-145
BJI I 15 11 36 00.9 1.94N 96.34E 24 5.4b,5.3s **¶15931120**
IDC I 15 11 36 03.0–.53 2.45N 96.36E 0 4.8,4.8L
NEIC I 15 11 36 04.5–.24 2.37N 96.26E 10 4.9b,4.8L
MOS I 15 11 36 05.7–1.1 2.44N 96.35E 33 5.1b,4.8L
ISCJB I 15 11 36 06.2–.57 2.29N–.03 96.27E–.03 41–5 4.9b,4.9s
DJA I 15 11 36 07.9–.30 2N–2.0 96E–3.0 19 6.3b,6.0
KLM I 15 11 36 09.5 2.46N 96.33E 35 5.8s,5.0b
ISC Event type se.
IDC Error ellipse: s-maj=19.4km s-min=11.3km az=39.0.
NEIC Event type se. Error ellipse: s-maj=5.9km s-min=3.8km az=214.0.
MOS Error ellipse: s-maj=12.6km s-min=6.2km az=106.1.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.1km az=143.9.
ISC I 15 11 45 19.7–.68 2.37N–.04 96.28E–.05 24–4 5.0b,4.9s 311 1-159
BJI I 15 11 45 15.4 2.02N 96.38E 29 5.7b,5.2b **¶15931122**
IDC I 15 11 45 16.2–.51 2.45N 96.40E 0 4.8,4.8b
NEIC I 15 11 45 17.6–.21 2.37N 96.27E 10 5.0b,4.8b
KLM I 15 11 45 18.9 2.42N 96.05E 27 6.1s,4.9b
ISCJB I 15 11 45 19.6–.59 2.33N–.03 96.28E–.04 40–5 5.0b,4.7s
MOS I 15 11 45 19.4–.97 2.49N 96.39E 33 5.2b,4.7s
DJA I 15 11 45 21.8–.30 2N–2.0 96E–3.0 27 6.1b,5.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 13 46 12.7–1.3 2.25N–.08 96.2E–.10 25 3.7b 12 1-52
IDC I 15 13 46 09.2–4.0 2.24N 96.14E 0 3.7,3.7 **¶17190252**
ISCJB I 15 13 46 11.0–1.1 2.20N–.07 96.07E–.10 25 3.6b,3.7
DJA I 15 13 46 15.3–1.2 2N–7.0 96E–12 92–21 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 15 52 44.9–2.1 2.4N–.20 96.2E–.20 27 3.8b 6 3-52
IDC I 15 15 52 40.4–2.3 2.25N 96.09E 0 3.7b,3.6 **¶17190264**
ISCJB I 15 15 52 42.3–1.7 2.2N–.20 96.1E–.20 27 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 16 26 08.6–.36 2.44N–.03 96.35E–.03 29–1 5.4b,5.2s 703 1-174
GCMT I 15 16 26 05.6–.20 2.30N 96.22E 12 5.5W,5.2s **¶15931161**
BJI I 15 16 26 05.7 2.37N 96.35E 26 5.6b,5.5s
NEIC I 15 16 26 05.6–.23 2.40N 96.29E 10 5.4W,5.3s
MOS I 15 16 26 07.7–.98 2.46N 96.38E 33 5.7b,5.0s
ISCJB I 15 16 26 07.7–.61 2.41N–.02 96.35E–.02 33–4 5.4b,5.1s
IDC I 15 16 26 08.9–1.6 2.46N 96.38E 31–11 5.0,4.9b
DJA I 15 16 26 08.8–.70 2N–2.0 96E–3.0 15–6 5.8b,5.6
KLM I 15 16 26 14.3 2.64N 96.56E 24 5.7s,5.3L
ISC Event type se.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s84,c134; s93,c142; Duration: 1s2 Moment tensor: Scale 10^{17}Nm; M_{rr}0.70±.02 $M_{\theta\theta}$-0.43±.02; $M_{\phi\phi}$-0.27±.02; $M_{r\theta}$1.16±.05; $M_{\theta\phi}$0.33±.01; $M_{\phi r}$-1.59±.06; Best double couple: NP1:ϕ_s143.00000°,δ81.00000° ,λ95.00000°. NP2:ϕ_s296.00000°,δ11.00000°,λ64.00000°. Principal axes: T 2.1120,Plg54.0000°,Azm59.0000°; N -0.0500,Plg5.0000°,Azm322.0000° ; P -2.0620,Plg35.0000°,Azm229.0000° $M_0$2.08700×10^{17}
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=4.9km az=210.0. Moment Tensor Solution. s46 Moment tensor: Scale 10^{17}Nm; M_{rr}1.02 $M_{\theta\theta}$-0.43 $M_{\phi\phi}$-0.59 $M_{r\theta}$0.68 $M_{\theta\phi}$0.99 $M_{\phi r}$-0.21 Best double couple: NP1:ϕ_s117.00000°,δ62.00000°,λ65.00000°. NP2:ϕ_s342.00000° ,δ37.00000°,λ128.00000°. Principal axes: T 1.3100,Plg64.0000°,Azm344.0000° ; N 0.3400,Plg22.0000°,Azm129.0000°; P -1.6500,Plg13.0000°,Azm225.0000° $M_0$1.50000×10^{17}
MOS Error ellipse: s-maj=8.1km s-min=4.4km az=115.9.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.8km az=36.7.
IDC Error ellipse: s-maj=13.5km s-min=8.4km az=38.0.
ISC I 15 17 20 49.4–.48 2.40N–.05 96.19E–.06 25 4.7b,4.4s 152 1-143
IDC I 15 17 20 45.3–.68 2.40N 96.23E 0 4.4b,4.4 **¶16032778**
BJI I 15 17 20 45.7 1.88N 96.20E 41 5.1b,4.9b
NEIC I 15 17 20 46.6–.32 2.32N 96.15E 10 4.7b,4.9b
ISCJB I 15 17 20 47.2–.31 2.31N–.04 96.17E–.03 25 4.6b,4.0s
MOS I 15 17 20 48.4–.81 2.36N 96.19E 33 4.7b,4.0s
DJA I 15 17 20 49.6–.60 2N–3.0 96E–6.0 10 5.7b,5.2
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 15 17 30 14.9–1.2 2.32N–.08 96.3E–.10 25 3.7b 13 1-52
IDC I 15 17 30 10.7–3.1 2.21N 96.11E 0 3.8L,3.7 **¶17190269**
ISCJB I 15 17 30 13.5–1.0 2.33N–.07 96.13E–.08 25 3.7b,3.7
DJA I 15 17 30 14.9–1.6 2N–4.0 96E–7.0 21–18 3.4,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC I 15 17 49 32.8–1.3 2.40N–.06 96.4E–.10 30 3.7b 12 1-53
IDC I 15 17 49 27.4–3.4 2.18N 95.93E 0 3.9L,3.8 **¶17190272**
ISCJB I 15 17 49 31.3–1.1 2.40N–.07 96.17E–.09 30 3.8s,3.5b
DJA I 15 17 49 33.4–1.0 2N–4.0 96E–10 101–12 3.1,3.1
ISC Event type ke.
ISCJB Event type ke.
ISC I 16 00 24 09.1–.99 2.24N–.06 96.08E–.09 27 4.0b,3.9s 26 1-88
IDC I 16 00 24 05.7–1.9 2.23N 96.12E 0 4.0,4.0s **¶16057176**
NEIC I 16 00 24 06.8–.73 2.21N 96.06E 10 4.0b,4.0s
ISCJB I 16 00 24 07.9–.74 2.29N–.06 96.09E–.06 27 4.2b,4.0s
DJA I 16 00 24 09.3–.90 2N–4.0 96E–7.0 10 3.7,3.7
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC I 17 06 50 42.8–.90 2.82N–.08 99.05E–.10 175–7 3.3b 16 0-46
ISCJB I 17 06 50 41.9–.67 2.80N–.08 99.06E–.10 180–7 3.3b **¶17190385**
IDC I 17 06 50 42.6–.76 2.79N 99.09E 169–19 3.6,3.3
DJA I 17 06 50 43.8–1.3 3N–4.0 99E–10 10 3.9,3.9
ISC Event type ke.
ISCJB Event type ke.
ISC I 17 13 20 48.6–1.3 2.14N–.08 96.48E–.09 33 3.2b 13 1-53
DJA I 17 13 20 46.8–1.0 2N–5.0 96E–9.0 10 3.2,3.2 **¶17190408**
ISCJB I 17 13 20 47.2–.95 2.06N–.07 96.46E–.08 33 3.3b,3.2
IDC I 17 13 21 02.5–5.9 2.48N 97.29E 145–42 3.4,3.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.2km s-min=10.1km az=150.0.
IDC Error ellipse: s-maj=90.9km s-min=19.9km az=57.0.
ISC I 18 11 33 45.0–.32 2.58N–.03 96.38E–.03 24–1 5.9s,5.7b 1363 1-174
BJI I 18 11 33 38.6 2.32N 96.15E 18 6.2b,6.2s **¶15934904**
IDC I 18 11 33 39.8–.36 2.61N 96.46E 0 5.5,5.5s
ISCJB I 18 11 33 41.4–.59 2.56N–.02 96.39E–.02 11–3 5.8s,5.7b
DJA I 18 11 33 44.6–.30 3N–3.0 96E–4.0 10 6.1b,5.8
GCMT I 18 11 33 44.4–.10 2.38N 96.17E 15 6.0W,5.8
MOS I 18 11 33 44.0–1.5 2.69N 96.42E 27 5.9b,5.6s
KLM I 18 11 33 45.2 2.71N 96.32E 19 6.5s,5.9b
NEIC I 18 11 33 45.1–.18 2.63N 96.40E 21 6.0,5.9W
NEIC I 18 11 33 45.0–.00 2.59N 96.44E 18 6.0,5.9W
ISC Event type fe.
IDC Error ellipse: s-maj=12.3km s-min=9.6km az=50.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.6km az=24.8.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s117,c234; s105,c239;Duration: 2s1 Moment tensor: Scale 10^{18}Nm; M_{rr}0.30±.01 $M_{\theta\theta}$-0.18±.00; $M_{\phi\phi}$-0.12±.01; $M_{r\theta}$0.71±.01; $M_{\theta\phi}$0.14±.00; $M_{\phi r}$-0.66±.01; Best double couple: NP1: ϕ_s133.00000°,δ81.00000°,λ91.00000°. NP2:ϕ_s306.00000°,δ9.00000°,λ83.00000°. Principal axes: T 1.0220,Plg54.0000°,Azm44.0000°; N -0.0060,Plg1.0000°,Azm312.0000° ; P -1.0160,Plg36.0000°,Azm222.0000° $M_0$1.01900×10^{18}
MOS Error ellipse: s-maj=7.2km s-min=4.0km az=116.0.
NEIC Event type fe. Error ellipse: s-maj=5.9km s-min=4.4km az=23.0. Felt [IV] at Sinabang. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s49 Moment tensor: Scale 10^{17}Nm; M_{rr}4.18 $M_{\theta\theta}$-1.10 $M_{\phi\phi}$-3.07 $M_{r\theta}$4.26 $M_{\theta\phi}$0.34 $M_{\phi r}$-2.88 Best double couple: NP1:ϕ_s134.00000° ,δ73.00000°,λ79.00000°. NP2:ϕ_s349.00000°,δ20.00000°,λ123.00000°. Principal axes: T 7.1100,Plg60.0000°,Azm28.0000°; N -1.9000,Plg11.0000°,Azm137.0000° ; P -5.2000,Plg27.0000°,Azm233.0000° $M_0$6.40000×10^{17}
NEIC Event type se. Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}2.05 $M_{\theta\theta}$-0.82 $M_{\phi\phi}$-1.23 $M_{r\theta}$6.28 $M_{\theta\phi}$1.30 $M_{\phi r}$-5.87 Best double couple: NP1:ϕ_s133.00000° ,δ82.00000°,λ88.00000°. NP2:ϕ_s327.00000°,δ7.00000°,λ104.00000°. Principal axes: T 8.7400,Plg52.0000°,Azm41.0000°; N 0.2600,Plg2.0000°,Azm133.0000° ; P -9.0000,Plg38.0000°,Azm225.0000° $M_0$8.90000×10^{17}
ISC I 18 11 46 48.1–1.2 2.41N–.07 96.27E–.09 30 3.7b 14 1-52
IDC I 18 11 46 43.1–1.7 2.31N 96.12E 0 3.8,3.8b **¶17190480**
DJA I 18 11 46 49.7–.90 4N–7.0 98E–5.0 10 3.6,3.6
ISC Event type ke.
ISC I 18 12 37 57.1–.47 2.40N–.06 96.16E–.06 25 4.6b 139 1-145
BJI I 18 12 37 53.7 2.05N 96.05E 39 5.2b,4.8b **¶15954491**
IDC I 18 12 37 53.6–.62 2.52N 96.33E 0 4.4,4.3
ISCJB I 18 12 37 54.6–.33 2.34N–.04 96.10E–.03 25 4.6s,4.6b
NEIC I 18 12 37 54.5–.37 2.38N 96.10E 10 4.6b,4.6b
MOS I 18 12 37 56.9–.99 2.58N 96.23E 33 4.7b,4.6b
DJA I 18 12 37 56.2–1.2 2N–5.0 96E–12 10 4.9b,4.7
KLM I 18 12 38 02.7 2.61N 96.49E 148 4.6b,4.2L
ISC Event type se.
IDC Error ellipse: s-maj=22.2km s-min=12.3km az=49.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.1km az=32.5.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=5.4km az=40.0.
MOS Error ellipse: s-maj=12.6km s-min=8.3km az=104.1.
ISC I 19 13 09 01.1–1.2 2.78N–.06 96.01E–.09 25 3.5b 15 1-53
IDC I 19 13 08 55.8–1.8 2.51N 95.66E 0 3.6,3.5s **¶17190560**
ISCJB I 19 13 08 59.9–1.1 2.68N–.06 96.01E–.10 25 3.5b,3.5s
DJA I 19 13 09 03.3–1.3 3N–4.0 96E–7.0 30–14 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC I 19 15 32 31.9–16 2.06N 96.23E 0 4.3b,4.2
¶17190568
IDC Error ellipse: s-maj=394.7km s-min=126.8km az=126.0.
ISC I 20 08 37 14.1–.91 2.1N–.10 96.3E–.10 27 4.1b 24 1-143
IDC I 20 08 37 09.9–1.4 1.94N 96.13E 0 4.0,4.0b **¶16151911**
ISCJB I 20 08 37 12.4–.62 2.06N–.08 96.24E–.06 27 4.0b,4.0b
NEIC I 20 08 37 14.2–2.7 2.05N 96.26E 26–19 4.3b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=47.0km s-min=19.7km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=6.7km az=36.8.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=7.2km az=224.0.
ISC I 25 03 09 00.8–.77 0.33N–.04 98.48E–.04 61–7 4.5b 157 0-145
BJI I 25 03 08 49.7 0.58S 98.44E 44 4.9b,4.7b **¶15966132**
IDC I 25 03 08 53.5–.64 0.43N 98.55E 0 4.9L,4.4
MOS I 25 03 08 56.7–1.2 0.53N 98.63E 33 4.8b,4.4
ISCJB I 25 03 08 57.5–.47 0.26N–.03 98.50E–.04 51–4 4.4b,3.8s

DJA I 25 03 08 58.9–.30 0N–2.0 98E–3.0 69–5 5.5b,4.9
KLM I 25 03 09 00.7 0.42N 98.43E 54 5.9s,4.5b
NEIC I 25 03 09 00.9–.79 0.45N 98.56E 53–6 4.7b,4.5b
ISC Event type fe.
IDC Error ellipse: s-maj=24.0km s-min=14.8km az=51.0.
MOS Error ellipse: s-maj=13.6km s-min=7.0km az=101.6.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=3.6km az=146.9.
NEIC Event type fe. Error ellipse: s-maj=9.8km s-min=5.3km az=222.0. Felt [II] at Natal, Sumatra.
ISC I 26 07 21 45.5–1.1 1.9N–.10 99.8E–.10 150 3.5b 12 1-47
ISCJB I 26 07 21 44.1–.82 1.9N–.10 99.9E–.10 150 3.6b **¶17191017**
IDC I 26 07 21 46.9–1.3 1.85N 99.65E 172–18 3.8,3.5
DJA I 26 07 21 59.4–1.3 2N–5.0 99E–12 69–14 3.0,3.0
ISC Event type ke.
ISCJB Event type ke.
ISC I 26 15 42 29.7–.30 2.17N–.03 96.81E–.03 24–1 5.9s,5.7b 1275 1-175
IDC I 26 15 42 25.3–.34 2.22N 96.88E 0 5.7,5.7s **¶601990108**
ISCJB I 26 15 42 26.8–.57 2.24N–.02 96.78E–.02 12–3 5.8s,5.6b
BJI I 26 15 42 27.0 2.18N 96.74E 24 6.1s,5.9
GCMT I 26 15 42 29.6–.10 1.87N 96.52E 23–0 6.0W,5.9
KLM I 26 15 42 29.5 2.18N 96.60E 38 6.5s,6.2b
MOS I 26 15 42 29.4–1.5 2.28N 96.89E 33 5.9b,5.7s
NEIC I 26 15 42 29.6–.14 2.21N 96.83E 23 6.1W,6.0W
DJA I 26 15 42 30.6–.10 2N–2.0 97E–2.0 10 6.1,6.0b
NEIC I 26 15 42 30.0–.00 2.20N 96.82E 23 6.1,6.0b
NEIC I 26 15 42 56.3–.00 1.81N 96.22E 27 6.1,6.0b
ISC Event type fe.
IDC Error ellipse: s-maj=11.0km s-min=9.0km az=51.0.
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.2km az=42.4.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s121,c262; s125,c373;Duration: 2s5 Moment tensor: Scale 10^{18}Nm; M_{rr}0.75±.01 $M_{\theta\theta}$-0.43±.01; $M_{\phi\phi}$-0.32±.01; $M_{r\theta}$0.66±.02; $M_{\theta\phi}$0.38±.01; $M_{\phi r}$-0.79±.02; Best double couple: NP1: ϕ_s138.00000°,δ72.00000°,λ95.00000°. NP2:ϕ_s304.00000°,δ19.00000°,λ76.00000°. Principal axes: T 1.2790,Plg63.0000°,Azm55.0000°; N -0.0070,Plg4.0000°,Azm317.0000° ; P -1.2720,Plg27.0000°,Azm225.0000° $M_0$1.27500×10^{18}
MOS Error ellipse: s-maj=6.5km s-min=3.8km az=114.1.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.5km az=34.0. Felt at Medan, Sumatra. Complex earthquake observed on broadband displacement seismograms. A small event is followed by a larger event about 5 seconds later. Depth from synthetics of broadband displacement seismograms based on first event. Energy computed from CMT mechanism. Moment Tensor Solution. s62 Moment tensor: Scale 10^{17}Nm; M_{rr}5.68 $M_{\theta\theta}$-2.54 $M_{\phi\phi}$-3.15 $M_{r\theta}$5.42 $M_{\theta\phi}$-0.69 $M_{\phi r}$-3.63 Best double couple: NP1:ϕ_s124.00000°,δ75.00000°,λ90.00000°. NP2:ϕ_s305.00000°,δ15.00000°,λ91.00000°. Principal axes: T 9.3900,Plg60.0000° ,Azm34.0000°; N -3.6000,Plg0.0000°,Azm124.0000°; P -5.8000,Plg30.0000°,Azm214.0000° $M_0$8.20000×10^{17}
NEIC Event type se. Moment Tensor Solution. s24 Moment tensor: Scale 10^{18}Nm; M_{rr}0.39 $M_{\theta\theta}$-0.17 $M_{\phi\phi}$-0.22 $M_{r\theta}$1.04 $M_{\theta\phi}$0.36 $M_{\phi r}$-1.24 Best double couple: NP1:ϕ_s140.00000° ,δ81.00000°,λ91.00000°. NP2:ϕ_s310.00000°,δ8.00000°,λ80.00000°. Principal axes: T 1.6100,Plg53.0000°,Azm52.0000°; N 0.1600,Plg1.0000°,Azm320.0000° ; P -1.7700,Plg37.0000°,Azm229.0000° $M_0$1.70000×10^{18}
NEIC Event type se. Moment Tensor Solution. s27 Moment tensor: Scale 10^{18}Nm; M_{rr}0.63 $M_{\theta\theta}$-0.31 $M_{\phi\phi}$-0.32 $M_{r\theta}$1.05 $M_{\theta\phi}$0.24 $M_{\phi r}$-0.76 Best double couple: NP1:ϕ_s321.00000° ,δ13.00000°,λ104.00000°. NP2:ϕ_s127.00000°,δ78.00000°,λ87.00000°. Principal axes: T 1.4700,Plg57.0000°,Azm33.0000°; N -0.0800,Plg3.0000°,Azm128.0000° ; P -1.3800,Plg33.0000°,Azm219.0000° $M_0$1.40000×10^{18}
IDC I 27 22 23 30.1–6.4 5.32N 97.09E 0 3.6,3.4
¶17191153
IDC Error ellipse: s-maj=356.6km s-min=27.5km az=57.0.
ISC I 30 15 49 44.5–1.4 4.81N–.04 96.10E–.05 23–10 4.4b,3.8s 116 1-147
IDC I 30 15 49 40.7–.57 4.94N 96.34E 0 4.4,4.2b **¶15981251**
ISCJB I 30 15 49 43.3–.88 4.74N–.03 96.01E–.04 30–6 4.3b,3.8s
DJA I 30 15 49 44.0–.40 5N–2.0 96E–3.0 10 5.4b,4.9
NEIC I 30 15 49 46.7–1.1 4.80N 96.23E 44–10 4.4b,4.9
BJI I 30 15 49 48.9 5.04N 96.12E 43 4.8b,4.5s
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=13.7km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=169.5.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=6.7km az=65.0.
DJA I 30 16 49 34.9–1.1 3N–4.0 99E–5.0 141–8 3.1,3.1
¶601990384
ISC II 02 08 40 05.7–1.7 2.1N–.20 96.7E–.30 28 3.8b 9 16-82
ISCJB II 02 08 40 03.2–1.3 1.9N–.20 96.5E–.30 28 3.9b **¶17191532**
IDC II 02 08 40 08.6–10 2.00N 96.65E 55–95 3.9,3.8
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=41.7km s-min=15.6km az=152.5.
IDC Error ellipse: s-maj=65.7km s-min=18.7km az=57.0.
DJA II 02 10 23 19.2–.90 5N–4.0 96E–14 13–9 3.7,3.7
¶602000941
ISC II 02 22 38 11.9–1.1 2.03N–.06 96.77E–.10 28 3.6b 16 1-53
IDC II 02 22 38 08.0–3.2 2.03N 97.00E 0 4.5L,3.9 **¶17191563**
ISCJB II 02 22 38 09.8–1.0 1.95N–.05 96.60E–.08 28 3.7b,3.9
DJA II 02 22 38 11.9–1.0 2N–4.0 97E–6.0 26–12 3.7b,3.6
ISC Event type ke.
ISCJB Event type ke.
DJA II 03 16 59 06.5–.90 3N–4.0 96E–5.0 10 3.6,3.6
¶602001011
ISC II 06 20 25 46.8–.63 2.84N–.05 99.02E–.06 179–5 3.8b 37 0-82
ISCJB II 06 20 25 45.7–.37 2.85N–.04 99.01E–.06 185–3 3.7b **¶17191827**
DJA II 06 20 25 46.7–.40 3N–3.0 99E–4.0 177–6 5.0b,4.3
IDC II 06 20 25 46.2–.35 2.79N 98.98E 173–3 3.9,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=9.7km s-min=6.8km az=172.0.
IDC Error ellipse: s-maj=20.7km s-min=10.1km az=61.0.
ISC II 07 08 08 36.6–.25 0.85N–.02 98.80E–.03 81–1 5.2b 960 1-177
BJI II 07 08 08 32.0 0.42N 98.86E 84 5.1b,4.9b **¶16168814**
KLM II 07 08 08 33.7 0.61N 98.45E 78 6.3s,5.3b
GCMT II 07 08 08 36.4–.20 0.78N 98.65E 96–2 5.1W,5.3b
ISCJB II 07 08 08 36.4–.24 0.83N–.02 98.78E–.02 91–2 5.1b,5.3b
IDC II 07 08 08 36.2–.40 0.90N 98.88E 77–2 5.0,4.7
NEIC II 07 08 08 36.4–.13 0.81N 98.82E 75 5.3b,4.7
DJA II 07 08 08 37.8–.20 1N–2.0 99E–2.0 68–2 5.6b,5.6
MOS II 07 08 08 37.3–1.1 0.95N 98.81E 95 5.3b,5.6
ISC Event type fe.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s61,c86; s83,c136; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.40±.14 $M_{\theta\theta}$-0.25±.13; $M_{\phi\phi}$-2.14±.15; $M_{r\theta}$-0.66±.08; $M_{\theta\phi}$0.23±.14; $M_{\phi r}$-4.59±.09; Best double couple: NP1:ϕ_s186.00000°,δ77.00000° ,λ95.00000°. NP2:ϕ_s345.00000°,δ14.00000°,λ69.00000°. Principal axes: T 5.3340,Plg58.0000°,Azm103.0000°; N -0.3310,Plg5.0000°,Azm5.0000° ; P -4.9950,Plg32.0000°,Azm272.0000° $M_0$5.16500×10^{16}
ISCJB Event type fe. Error ellipse: s-maj=3.4km s-min=2.3km az=140.4.
IDC Error ellipse: s-maj=9.5km s-min=6.0km az=90.0.
NEIC Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=46.0. Felt at Padang, Pariaman and Padangsidempuan, Sumatra.
MOS Error ellipse: s-maj=7.3km s-min=4.0km az=111.7.
IDC II 08 01 41 16.8–5.4 2.68N 100.05E 86–80 3.5,3.4
¶17191884
IDC Error ellipse: s-maj=134.5km s-min=27.0km az=50.0.
ISC II 09 05 37 26.2–1.2 1.40N–.06 97.14E–.10 25 3.8b 15 0-53
IDC II 09 05 37 20.5–7.0 1.11N 97.36E 0 4.3L,4.0 **¶17191932**
DJA II 09 05 37 26.5–.90 1N–4.0 97E–6.0 10 4.1b,3.7
ISC Event type ke.
ISC II 09 10 42 52.3–1.2 1.7N–.10 99.9E–.10 150 3.1b 9 1-48
ISCJB II 09 10 42 51.3–.91 1.8N–.20 100.0E–.10 150 3.2b **¶17191940**
IDC II 09 10 42 53.4–1.9 1.69N 99.58E 175–15 3.5,3.2
DJA II 09 10 43 13.4–.60 2N–13 99E–19 32–25 2.5,2.5
ISC Event type ke.
ISCJB Event type ke.
ISC II 11 05 42 51.1–.68 1.31N–.07 97.06E–.07 28 4.4b 52 1-144
IDC II 11 05 42 45.8–.85 1.10N 96.91E 0 4.3,4.2 **¶16160031**
BJI II 11 05 42 48.0 1.30N 97.10E 19 4.9b,4.4b
ISCJB II 11 05 42 49.4–.50 1.26N–.05 97.02E–.05 28 4.3b,3.6s
NEIC II 11 05 42 49.6–2.6 1.19N 96.98E 22–16 4.5b,3.6s
DJA II 11 05 42 51.4–1.0 1N–4.0 97E–7.0 11–6 4.4b,4.2
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
IDC II 14 07 01 21.3–8.3 5.25N 95.10E 0 3.4,3.3
¶17192228
IDC Error ellipse: s-maj=402.7km s-min=26.8km az=56.0.
ISC II 18 04 46 01.6–.62 2.40N–.06 96.29E–.08 30 4.2b 45 1-83
ISCJB II 18 04 45 59.8–.50 2.37N–.06 96.24E–.05 30 4.2b **¶16305024**
DJA II 18 04 46 00.1–3.0 2N–5.0 96E–10 12–24 5.1b,4.7b
NEIC II 18 04 46 03.0–.80 2.42N 96.33E 43–7 4.3b,4.7b
IDC II 18 04 46 04.1–5.4 2.47N 96.39E 49–46 4.7L,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.6km az=41.9.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.1km az=46.0.
IDC Error ellipse: s-maj=62.7km s-min=17.3km az=55.0.
IDC II 18 21 15 47.6–3.1 2.39N 97.21E 0 3.5,3.4
¶17192503
IDC Error ellipse: s-maj=131.2km s-min=26.5km az=55.0.
ISC II 18 23 12 05.4–.29 1.97N–.03 97.91E–.03 50–2 5.3b,4.5s 906 1-160
BJI II 18 23 12 01.9 1.84N 98.06E 46 5.2b,5.1b **¶16032243**
MOS II 18 23 12 03.9–.85 1.98N 97.96E 51 5.7b,4.5s
IDC II 18 23 12 04.9–.60 1.93N 97.96E 46–5 5.1,4.9
ISCJB II 18 23 12 05.5–.29 1.95N–.02 97.89E–.02 64–2 5.3b,4.9
GCMT II 18 23 12 05.6–.20 1.86N 97.77E 44–0 5.2W,4.9
NEIC II 18 23 12 05.6–.38 1.90N 97.89E 53–3 5.3b,4.9
DJA II 18 23 12 06.8–.20 2N–2.0 98E–3.0 51–2 5.5b,5.5
KLM II 18 23 12 06.5 1.96N 97.79E 44 5.8s,5.4b
ISC Event type fe.
MOS Error ellipse: s-maj=7.3km s-min=4.3km az=110.7.
IDC Error ellipse: s-maj=10.4km s-min=8.1km az=38.0.
ISCJB Event type fe. Error ellipse: s-maj=3.7km s-min=2.6km az=138.5.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s85,c131; s92,c163; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}0.67±.02 $M_{\theta\theta}$-0.26±.01; $M_{\phi\phi}$-0.40±.01; $M_{r\theta}$0.44±.01; $M_{\theta\phi}$0.36±.01; $M_{\phi r}$-0.26±.01; Best double couple: NP1:ϕ_s129.00000°,δ64.00000° ,λ79.00000°. NP2:ϕ_s333.00000°,δ28.00000°,λ111.00000°. Principal axes: T 0.8600,Plg69.0000°,Azm16.0000°; N 0.0020,Plg10.0000°,Azm134.0000° ; P -0.8610,Plg18.0000°,Azm227.0000° $M_0$0.86000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=4.6km s-min=3.4km az=222.0. Felt [III] on Nias.
ISC II 20 10 49 09.2–.90 2.07N–.05 96.74E–.10 28 3.9b 22 1-79
IDC II 20 10 49 04.2–1.5 1.90N 96.59E 0 4.0,4.0L **¶17192581**
ISCJB II 20 10 49 07.1–.72 1.99N–.06 96.57E–.08 28 3.9b,4.0L
DJA II 20 10 49 08.5–1.1 2N–4.0 97E–8.0 21–12 4.5b,4.4b
ISC Event type ke.
ISCJB Event type ke.
ISC II 20 14 32 23.3–.34 1.32N–.03 97.17E–.03 29–1 5.3b,4.6s 658 0-159
IDC II 20 14 32 21.7–2.7 1.32N 97.16E 18–16 4.9,4.9 **¶16057007**
BJI II 20 14 32 21.8 1.20N 97.30E 40 5.4b,5.3b
ISCJB II 20 14 32 22.7–.40 1.34N–.02 97.18E–.02 36–3 5.1b,4.6s
DJA II 20 14 32 22.9–.70 1N–3.0 97E–5.0 26–5 5.4b,5.3
MOS II 20 14 32 22.3–.79 1.39N 97.21E 33 5.6b,4.7s
NEIC II 20 14 32 24.9–.54 1.36N 97.20E 40–4 5.3b,4.7s
KLM II 20 14 32 24.4 1.31N 97.07E 38 5.9s,5.3b
ISC Event type fe.
IDC Error ellipse: s-maj=13.6km s-min=10.1km az=43.0.
ISCJB Event type fe. Error ellipse: s-maj=4.4km s-min=3.0km az=141.4.
MOS Error ellipse: s-maj=8.0km s-min=4.4km az=111.9.
NEIC Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=47.0. Felt [III] at Gunungsitoli. Felt [II] at Singkil, Sumatra.
ISC II 22 01 16 44.4–1.1 2.61N–.06 98.94E–.07 156–10 3.6b 16 0-80
IDC II 22 01 16 25.4–2.9 2.36N 98.46E 0 3.9,3.8 **¶17192668**
ISCJB II 22 01 16 43.5–.55 2.62N–.07 98.94E–.09 164–6 3.5b,3.8
DJA II 22 01 16 44.1–.70 3N–4.0 99E–5.0 156–11 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 24 22 54 16.7–.93 2.3N–.10 100.2E–.10 35 3.9b 10 3-84
IDC II 24 22 54 11.5–5.4 2.18N 100.12E 0 4.2s,4.2 **¶16363015**
ISCJB II 24 22 54 14.6–.65 2.3N–.10 100.19E–.07 33 4.2s,4.1b
NEIC II 24 22 54 20.7–1.9 2.31N 100.32E 71–21 4.1b,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=290.9km s-min=22.7km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=9.8km az=159.1.
NEIC Event type se. Error ellipse: s-maj=16.8km s-min=11.2km az=57.0.
IDC III 01 09 18 40.9–33 2.10N 97.83E 0 3.8,3.6
¶17193056
IDC Error ellipse: s-maj=641.2km s-min=250.0km az=143.0.
IDC III 01 14 13 25.9–11 4.50N 96.62E 250–109 3.7,3.3
¶17193074
IDC Error ellipse: s-maj=119.0km s-min=17.3km az=61.0.
ISC III 04 08 07 34.4–.75 1.63N–.06 99.65E–.05 166–7 3.9b 50 1-145
ISCJB III 04 08 07 33.5–.39 1.60N–.06 99.61E–.04 175–4 4.0b **¶16310106**
KLM III 04 08 07 33.8 1.65N 99.50E 168 4.3b,3.2L
NEIC III 04 08 07 34.4–.43 1.60N 99.74E 170–4 4.5b,3.2L
IDC III 04 08 07 34.0–.72 1.60N 99.73E 165–5 4.2,3.8
DJA III 04 08 07 35.0–1.1 2N–7.0 100E–6.0 166–26 3.8,3.8
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 05 03 46 04.8–2.0 4.62N–.09 96.3E–.20 33 7 1-46
DJA III 05 03 46 02.7–2.3 5N–10 96E–18 10 3.6,3.6 **¶17193266**
IDC III 05 03 46 03.5–12 4.18N 96.48E 0 4.5L,3.8
ISC Event type ke.
IDC Error ellipse: s-maj=349.4km s-min=46.9km az=78.0.
ISC III 05 07 25 15.2–1.2 2.1N–.10 96.3E–.10 28 4.2b 13 1-84
DJA III 05 07 25 11.4–4.4 2N–6.0 96E–37 17–25 5.1b,4.6b **¶602002636**
ISCJB III 05 07 25 12.8–1.1 2.0N–.10 96.3E–.10 28 4.1b,4.6b
IDC III 05 07 26 20.0–17 6.34N 95.91E 367–127 4.0,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=24.8km s-min=11.4km az=142.6.
IDC Error ellipse: s-maj=135.7km s-min=63.5km az=162.0.
DJA III 06 04 02 53.7–1.3 5N–7.0 96E–13 12–20 3.7b,3.6
¶602002671
ISC III 06 20 55 41.9–1.3 2.10N–.06 96.5E–.10 28 3.4b 13 1-53
IDC III 06 20 55 39.7–2.9 2.40N 96.07E 0 3.7,3.5 **¶17193380**
ISCJB III 06 20 55 39.6–1.1 2.06N–.06 96.33E–.10 28 3.6b,3.5
DJA III 06 20 55 44.3–1.6 2N–3.0 97E–10 38–19 4.3b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 06 21 17 51.6–.44 4.63N–.05 95.11E–.04 54–3 4.7b,3.4s 248 2-146
MOS III 06 21 17 50.2–1.0 4.75N 95.15E 50 5.0b,3.4s **¶16245380**
BJI III 06 21 17 50.4 4.39N 95.02E 83 5.0b,4.8b
ISCJB III 06 21 17 51.4–.56 4.57N–.03 95.12E–.04 69–5 4.5b,4.8b
IDC III 06 21 17 52.1–.59 4.70N 95.07E 51–4 4.3,4.2
NEIC III 06 21 17 53.1–.71 4.62N 95.12E 66–6 4.8b,4.2
DJA III 06 21 17 59.1–.50 4N–3.0 96E–6.0 105–8 4.7b,4.5b
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 09 13 02 05.6–.89 2.42N–.08 98.7E–.10 46 3.7b 12 1-80
IDC III 09 13 01 57.1–1.9 2.03N 98.08E 0 4.3L,3.9 **¶17193555**
ISCJB III 09 13 02 04.5–.68 2.43N–.08 98.78E–.09 46 3.6b,3.9
DJA III 09 13 02 08.2–.90 2N–4.0 98E–4.0 34–15 3.6,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC III 10 19 15 04.6–.96 1.2N–.20 99.9E–.20 200 3.7b 21 2-142
ISCJB III 10 19 15 03.9–.91 1.4N–.20 100.0E–.20 200 3.8b **¶17193649**
IDC III 10 19 15 05.0–.92 1.22N 99.83E 200–6 4.1,3.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=31.8km s-min=11.8km az=138.9.
IDC Error ellipse: s-maj=32.3km s-min=10.9km az=54.0.
ISC III 14 23 53 20.3–.70 2.72N–.06 96.05E–.07 25 4.1b 36 1-83
IDC III 14 23 53 16.6–1.3 2.78N 96.03E 0 4.1,4.0b **¶16478019**
DJA III 14 23 53 16.0–1.3 3N–5.0 96E–12 138–8 3.7,3.7
ISCJB III 14 23 53 18.2–.49 2.68N–.05 95.94E–.05 25 4.0b,3.5s
NEIC III 14 23 53 21.6–1.6 2.63N 95.93E 39–12 4.2b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=59.6km s-min=19.2km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.5km az=39.8.
NEIC Event type se. Error ellipse: s-maj=20.2km s-min=6.5km az=66.0.
IDC III 15 18 03 45.2–25 0.30N 97.18E 0 3.8b,3.7
¶17196207
IDC Error ellipse: s-maj=509.8km s-min=60.8km az=160.0.
ISC III 18 17 54 22.0–.95 2.91N–.07 96.16E–.08 31 4.1b 29 1-78
IDC III 18 17 54 16.1–1.6 2.74N 96.01E 0 3.8,3.8 **¶16479240**
ISCJB III 18 17 54 19.3–.70 2.82N–.08 96.08E–.07 31 4.0b,3.8
NEIC III 18 17 54 22.2–1.9 2.79N 96.25E 42–16 4.4b,3.8
DJA III 18 17 54 23.0–1.9 3N–6.0 96E–13 17–12 3.5,3.5
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC III 19 02 33 46.3–.41 0.79N–.03 97.40E–.04 27–2 5.1b,4.7s 467 1-150
IDC III 19 02 33 42.3–.37 0.84N 97.43E 0 4.9,4.9b **¶16338030**
BJI III 19 02 33 43.1 0.56N 97.49E 31 5.3b,5.2b
ISCJB III 19 02 33 45.5–.47 0.81N–.02 97.45E–.03 33–4 5.0b,4.7s
MOS III 19 02 33 45.8–.94 0.89N 97.49E 33 5.3b,4.7s
DJA III 19 02 33 46.4–.70 1N–3.0 97E–5.0 31–7 5.8b,5.7b
NEIC III 19 02 33 47.6–.54 0.83N 97.45E 36–4 5.2b,5.7b
GCMT III 19 02 33 47.6–.50 0.79N 97.36E 31–0 5.1W,5.7b
KLM III 19 02 33 48.1 0.81N 97.40E 39 6.0s,5.2b
ISC Event type fe.
IDC Error ellipse: s-maj=11.3km s-min=9.7km az=49.0.
ISCJB Event type fe. Error ellipse: s-maj=5.0km s-min=3.0km az=145.8.
MOS Error ellipse: s-maj=8.2km s-min=4.6km az=113.7.
NEIC Event type fe. Error ellipse: s-maj=4.8km s-min=2.9km az=51.0. Felt [III] at Gunungsitoli.
GCMT Error ellipse: s-maj=4.4km s-min=4.4km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s37,c48; s47,c60; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}6.18±.34 $M_{\theta\theta}$-2.39±.21; $M_{\phi\phi}$-3.80±.27; $M_{r\theta}$0.22±.29; $M_{\theta\phi}$1.19±.14; $M_{\phi r}$-1.78±.32; Best double couple: NP1:ϕ_s156.00000°,δ54.00000°,λ95.00000°. NP2:ϕ_s327.00000°,δ36.00000°,λ83.00000°. Principal axes: T 6.4880,Plg80.0000°,Azm90.0000°; N -1.7660,Plg4.0000°,Azm333.0000°; P -4.7320,Plg9.0000°,Azm242.0000° $M_0$5.61000×10^{16}
DJA III 20 05 55 35.1–.60 3N–3.0 97E–5.0 10 3.8,3.8
¶602003297
IDC III 20 21 47 48.5–4.5 2.87N 96.60E 0 3.6,3.5b
¶17197561
IDC Error ellipse: s-maj=179.9km s-min=28.3km az=58.0.
ISC III 21 19 34 00.6–.38 2.27N–.05 96.32E–.05 30 4.8b 146 1-145
IDC III 21 19 33 55.9–.49 2.29N 96.33E 0 4.6,4.5 **¶16341511**
BJI III 21 19 33 57.1 2.13N 96.45E 29 5.1b,5.0b
ISCJB III 21 19 33 58.8–.26 2.26N–.03 96.25E–.03 30 4.7b,4.3s
NEIC III 21 19 34 02.0–.84 2.27N 96.38E 44–7 4.7b,4.3s
DJA III 21 19 34 02.4–.40 2N–2.0 96E–4.0 10 5.4b,4.9b
KLM III 21 19 34 05.3 2.47N 96.52E 35 5.6s,4.9b
ISC Event type fe.
IDC Error ellipse: s-maj=16.3km s-min=10.7km az=42.0.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.3km az=40.9.
NEIC Event type fe. Error ellipse: s-maj=8.2km s-min=5.1km az=47.0. Felt [III] on Pulau Simeulue.
ISC III 21 19 39 14.5–.69 2.25N–.06 96.26E–.09 30 4.5b 43 1-143
IDC III 21 19 39 09.9–1.2 2.27N 96.28E 0 4.2,4.1 **¶16480056**
DJA III 21 19 39 11.9–1.1 2N–4.0 96E–9.0 10 4.6b,4.3
ISCJB III 21 19 39 12.4–.53 2.15N–.05 96.16E–.05 30 4.2b,4.3
NEIC III 21 19 39 16.2–2.4 2.30N 96.34E 46–16 4.7b,4.3
ISC Event type se.
IDC Error ellipse: s-maj=37.8km s-min=18.1km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.8km az=42.2.
NEIC Event type se. Error ellipse: s-maj=27.6km s-min=9.7km az=55.0.
IDC III 24 07 27 50.9–30 2.51N 99.86E 0 4.0,3.8
¶17198301
IDC Error ellipse: s-maj=563.9km s-min=251.2km az=146.0.
ISC III 25 09 14 29.6–.29 1.11N–.03 99.05E–.03 110–2 5.1b 859 1-177
BJI III 25 09 14 24.7 0.56N 99.13E 120 5.1b,5.1b **¶16359666**
ISCJB III 25 09 14 29.1–.21 1.15N–.02 99.06E–.02 114–2 5.0b,5.1b
IDC III 25 09 14 29.8–.41 1.16N 99.18E 107–3 4.9,4.6
KLM III 25 09 14 29.9 1.04N 98.82E 72 5.8s,5.0b
MOS III 25 09 14 29.9–1.3 1.25N 99.18E 118 5.1b,5.0b
NEIC III 25 09 14 30.5–.47 1.14N 99.08E 110–4 5.2b,5.0b
GCMT III 25 09 14 30.5–.20 1.27N 99.00E 111–1 5.2W,5.0b
DJA III 25 09 14 30.2–.20 1N–2.0 99E–2.0 103–2 5.7b,5.4
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] on Pulau Nias and at Sibolga.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s67,c96; s87,c151;Duration: 1s0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.49±.15 $M_{\theta\theta}$-3.81±.17; $M_{\phi\phi}$1.32±.20; $M_{r\theta}$1.77±.11; $M_{\theta\phi}$-5.71±.17; $M_{\phi r}$-3.40±.13; Best double couple: NP1:ϕ_s198.00000°,δ67.00000°,λ29.00000°. NP2:ϕ_s96.00000°,δ64.00000°,λ155.00000°. Principal axes: T 7.7750,Plg36.0000°,Azm58.0000°; N -0.2550,Plg54.0000°,Azm233.0000°; P -7.5190,Plg2.0000°,Azm326.0000° $M_0$7.64700×10^{16}
ISC III 26 03 19 09.3–.82 1.30N–.06 97.55E–.09 49–6 4.0b 34 0-143
IDC III 26 03 19 00.5–1.5 0.82N 97.13E 0 4.1,4.0 **¶16480966**
NEIC III 26 03 19 05.6–2.1 0.88N 97.26E 35–16 4.3b,4.0
ISCJB III 26 03 19 08.0–.76 1.21N–.06 97.45E–.08 58–5 4.0b,3.4s
DJA III 26 03 19 10.2–.30 1N–3.0 98E–4.0 35–6 3.8,3.8
ISC Event type se.
NEIC Event type se.
ISCJB Event type se.
ISC III 26 03 20 41.8–.63 0.95N–.07 97.17E–.08 25 4.4b 38 1-144
IDC III 26 03 20 38.1–.92 0.94N 97.09E 0 4.3,4.2 **¶16480967**
ISCJB III 26 03 20 39.8–.46 0.95N–.05 97.16E–.06 25 4.2b,4.0s
NEIC III 26 03 20 42.4–1.4 0.98N 97.20E 29–9 4.4b,4.0s
ISC Event type se.
IDC Error ellipse: s-maj=27.7km s-min=16.6km az=53.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=7.3km az=140.1.
NEIC Event type se. Error ellipse: s-maj=10.4km s-min=4.6km az=58.0.
ISC III 27 15 31 38.0–.92 1.0N–.10 98.15E–.07 32 3.9b 12 1-143
NEIC III 27 15 31 36.9–4.1 0.54N 97.33E 55–28 4.5b **¶16481097**
ISCJB III 27 15 31 36.3–.84 0.8N–.20 98.1E–.20 32 3.9b
IDC III 27 15 31 47.7–17 1.01N 98.25E 129–159 3.9L,3.7
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=60.6km s-min=15.3km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=31.1km s-min=8.3km az=136.2.
IDC Error ellipse: s-maj=76.9km s-min=16.1km az=56.0.
ISC III 28 11 18 54.4–1.6 2.2N–.10 96.2E–.20 28 3.8b 10 1-52
IDC III 28 11 18 50.1–2.1 2.07N 96.16E 0 3.9,3.9b **¶17198940**
ISCJB III 28 11 18 52.4–1.3 2.08N–.10 96.1E–.10 28 3.9b,3.9b
DJA III 28 11 18 54.5–3.9 2N–9.0 96E–39 16–18 4.4b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC III 29 06 59 35.9–.45 1.11N–.05 97.07E–.06 25 4.6b,3.9s 138 1-145
BJI III 29 06 59 29.4 0.56N 97.08E 23 4.9b,4.9b **¶16392136**
IDC III 29 06 59 31.8–.54 1.10N 97.11E 0 4.4b,4.4
ISCJB III 29 06 59 33.6–.32 1.03N–.04 97.08E–.03 25 4.5b,4.0s
DJA III 29 06 59 33.5–1.8 1N–6.0 97E–14 18–9 5.1b,4.8b
KLM III 29 06 59 38.5 1.14N 97.12E 47 5.4s,4.8b
NEIC III 29 06 59 38.1–.92 1.14N 97.21E 46–7 4.6b,4.8b
ISC Event type se.
IDC Error ellipse: s-maj=16.9km s-min=11.4km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=4.3km az=38.4.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=4.5km az=53.0.

ISC III 29 18 24 12.2–.67 0.53N–.07 98.40E–.07 43 4.2b 49 1-144
IDC III 29 18 24 04.7–1.1 0.29N 98.27E 0 4.0,4.0b **¶16475698**
ISCJB III 29 18 24 09.9–.45 0.47N–.05 98.29E–.07 43 4.1b,4.0b
NEIC III 29 18 24 13.8–.71 0.52N 98.41E 59–5 4.4b,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=32.5km s-min=18.4km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.7km az=157.4.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=5.2km az=49.0.
ISC IV 02 00 57 28.5–1.0 5.4N–.20 94.5E–.20 46 4.0b 14 5-99
ISCJB IV 02 00 57 26.7–.87 5.4N–.10 94.5E–.10 46 4.0b **¶17199473**
IDC IV 02 00 57 30.3–4.3 5.48N 94.69E 62–37 3.9,3.9L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=25.7km s-min=8.3km az=44.4.
IDC Error ellipse: s-maj=51.6km s-min=16.8km az=56.0.
ISC IV 02 15 24 26.7–1.2 2.13N–.08 96.4E–.10 28 4.1b 12 1-53
IDC IV 02 15 24 20.4–7.1 1.78N 96.28E 0 4.1b,4.0 **¶17199542**
DJA IV 02 15 24 24.1–2.7 2N–5.0 96E–25 21–18 4.6b,4.3b
ISCJB IV 02 15 24 25.6–.96 2.11N–.08 96.44E–.08 28 4.1b,4.3b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 05 13 50.1–.56 0.76N–.05 100.17E–.05 200 3.8b 52 1-145
ISCJB IV 03 05 13 49.3–.31 0.78N–.04 100.18E–.05 200 3.7b **¶17199617**
DJA IV 03 05 13 51.1–.30 1N–3.0 100E–3.0 189–8 4.5b,4.2b
IDC IV 03 05 13 51.7–1.9 0.77N 100.22E 212–16 4.1,3.6
KLM IV 03 05 13 56.9 1.12N 100.44E 129 4.3b,3.5L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=7.9km s-min=4.7km az=144.8.
IDC Error ellipse: s-maj=27.7km s-min=12.4km az=55.0.
ISC IV 03 11 05 37.0–1.1 3.41N–.05 97.80E–.04 17–7 4.1b 35 0-68
ISCJB IV 03 11 05 36.6–.70 3.35N–.04 97.85E–.05 27–6 3.9b,3.1s **¶17199649**
IDC IV 03 11 05 36.9–4.3 3.14N 97.79E 22–26 3.9,3.8
DJA IV 03 11 05 37.5–.30 3N–2.0 98E–3.0 10 5.3b,4.8
KLM IV 03 11 05 40.8 3.36N 97.96E 36 6.0s,4.2L
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.8km s-min=6.7km az=142.7.
IDC Error ellipse: s-maj=47.9km s-min=16.0km az=49.0.
ISC IV 03 12 48 11.7–2.0 3.7N–.20 97.71E–.07 35 11 0-45
ISCJB IV 03 12 48 11.3–2.0 3.6N–.20 97.72E–.07 33 3.2b **¶17199656**
DJA IV 03 12 48 13.5–.30 3N–2.0 98E–2.0 10 3.7,3.7
IDC IV 03 12 48 19.6–2.4 3.40N 99.54E 0 3.8L,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=29.2km s-min=7.3km az=166.7.
IDC Error ellipse: s-maj=46.4km s-min=12.8km az=143.0.
DJA IV 04 07 13 54.9–.40 3N–4.0 98E–4.0 10 3.8,3.8
¶602003842
ISC IV 04 18 36 47.7–1.2 2.33N–.07 96.1E–.10 25 3.9b 11 1-52
IDC IV 04 18 36 44.0–3.1 2.26N 96.18E 0 3.8,3.7 **¶17199802**
ISCJB IV 04 18 36 45.8–1.0 2.30N–.07 95.97E–.07 25 3.8b,3.7
DJA IV 04 18 36 45.6–1.1 2N–4.0 96E–7.0 10 4.2b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC IV 04 22 51 36.7–.98 2.33N–.06 96.21E–.10 28 4.1b 19 1-81
IDC IV 04 22 51 31.1–1.8 2.13N 96.13E 0 4.1,4.0 **¶17199816**
ISCJB IV 04 22 51 34.8–.72 2.31N–.05 96.16E–.05 28 4.0b,4.0
DJA IV 04 22 51 40.0–.90 2N–3.0 96E–8.0 26–14 3.8,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 06 13 49 52.7–66 3.50N 97.08E 0 3.6,3.6
¶17200009
IDC Error ellipse: s-maj=1244.0km s-min=149.3km az=175.0.
ISC IV 06 14 01 44.7–.31 1.63N–.02 97.17E–.03 31–1 6.0s,5.8b 1395 1-175
BJI IV 06 14 01 42.2 1.70N 97.25E 20 6.4,6.3s **¶16411055**
NEIC IV 06 14 01 42.6–.11 1.61N 97.09E 20 6.4,6.0W
ISCJB IV 06 14 01 42.3–.50 1.60N–.02 97.14E–.02 28–3 6.0s,5.8b
NEIC IV 06 14 01 43.0–.00 1.28N 97.15E 18 6.0s,5.8b
IDC IV 06 14 01 43.5–1.3 1.63N 97.29E 26–8 5.7,5.7s
GCMT IV 06 14 01 43.3–.10 1.40N 96.82E 24–0 5.9W,5.7s
MOS IV 06 14 01 43.1–.99 1.69N 97.22E 33 6.1b,5.9s
KLM IV 06 14 01 46.3 1.69N 97.13E 35 6.7s,6.0L
DJA IV 06 14 01 46.2–.40 2N–2.0 97E–2.0 36–3 6.1,6.0b
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Gunungsitoli, Nias and [III] at Sibolga, Sumatra. Also felt at Kuala Lumpur, Malaysia. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. s59 Moment tensor: Scale 10^{17}Nm; M_{rr}4.04 $M_{\theta\theta}$-0.86 $M_{\phi\phi}$-3.18 $M_{r\theta}$3.62 $M_{\theta\phi}$-0.46 $M_{\phi r}$-2.56 Best double couple: NP1:ϕ_s146.00000°,δ71.00000°,λ72.00000°. NP2:ϕ_s11.00000°,δ26.00000°,λ132.00000°. Principal axes: T 6.5900,Plg60.0000°,Azm30.0000°; N -2.3700,Plg17.0000°,Azm152.0000°; P -4.2200,Plg24.0000°,Azm250.0000° $M_0$5.80000×10^{17} Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s320.00000°,δ10.00000°,λ90.00000°. NP2:ϕ_s140.00000°,δ80.00000°,λ90.00000°. Principal axes: T Plg55.0000°,Azm50.0000°; N Plg0.0000°,Azm0.0000°; P Plg35.0000°,Azm230.0000°
ISCJB Event type fe.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s132.00000°,δ77.00000°,λ91.00000°. NP2:ϕ_s308.00000°,δ13.00000°,λ85.00000°. Principal axes: T 1.0700,Plg57.0000°,Azm44.0000°; N 0.0500,Plg0.0000°,Azm312.0000°; P -1.1300,Plg32.0000°,Azm222.0000°
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s118,c231; s113,c256;Duration: 2s1 Moment tensor: Scale 10^{17} Nm; M_{rr}5.24±.08 $M_{\theta\theta}$-2.01±.05; $M_{\phi\phi}$-3.23±.06; $M_{r\theta}$4.30±.12; $M_{\theta\phi}$2.40±.04; $M_{\phi r}$-3.83±.12; Best double couple: NP1:ϕ_s135.00000°,δ69.00000°,λ85.00000°. NP2:ϕ_s329.00000°,δ21.00000°,λ104.00000°. Principal axes: T 7.8530,Plg65.0000°,Azm36.0000°; N -0.2340,Plg5.0000°,Azm136.0000°; P -7.6190,Plg24.0000°,Azm229.0000° $M_0$7.73600×10^{17}
IDC IV 06 14 17 02.5–2.2 1.89N 97.06E 0 3.8,3.8
¶17200011
IDC Error ellipse: s-maj=56.3km s-min=26.9km az=48.0.
ISC IV 06 14 24 16.1–1.3 1.59N–.06 97.1E–.10 28 3.2b 12 1-53
IDC IV 06 14 24 09.9–1.7 1.15N 96.55E 0 3.5,3.4 **¶17200012**
ISCJB IV 06 14 24 13.7–.92 1.53N–.06 96.89E–.07 28 3.4b,3.4
DJA IV 06 14 24 14.5–1.1 2N–4.0 97E–8.0 20–9 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 06 14 31 04.6–.76 1.70N–.07 97.3E–.10 30 4.0b 25 0-82
DJA IV 06 14 30 59.9–.40 2N–2.0 98E–5.0 10 3.4,3.4 **¶17200013**
IDC IV 06 14 31 03.7–.96 1.51N 97.01E 27–4 3.8,3.7
ISC Event type ke.
IDC Error ellipse: s-maj=36.5km s-min=14.6km az=57.0.
IDC IV 07 00 24 57.6–3.2 0.36N 99.52E 0 3.8,3.7
¶17200065
IDC Error ellipse: s-maj=140.6km s-min=25.9km az=53.0.
ISC IV 07 16 21 41.0–1.3 5.4N–.10 94.2E–.20 46 3.7b 16 3-49
ISCJB IV 07 16 21 39.1–.90 5.2N–.10 94.1E–.10 46 3.7b **¶16577729**
NEIC IV 07 16 21 42.2–2.1 5.22N 94.19E 58–17 4.5b
IDC IV 07 16 21 50.3–13 5.44N 94.43E 124–114 3.9L,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=22.7km s-min=9.2km az=140.8.
NEIC Event type se. Error ellipse: s-maj=28.6km s-min=9.2km az=67.0.
IDC Error ellipse: s-maj=116.3km s-min=19.2km az=59.0.
IDC IV 11 12 29 08.5–1.9 1.74N 99.37E 171–8 3.8,3.4
¶17200614
IDC Error ellipse: s-maj=101.6km s-min=15.3km az=58.0.
IDC IV 12 15 33 25.9–10 5.63N 94.90E 267–96 3.2,2.7
¶17200785
IDC Error ellipse: s-maj=113.0km s-min=18.8km az=63.0.
ISC IV 13 07 22 53.6–.91 4.27N–.09 96.16E–.10 31 3.6b 17 1-142
DJA IV 13 07 22 45.7–.90 5N–4.0 96E–7.0 59–15 5.5b,5.0 **¶17200874**
IDC IV 13 07 22 49.1–1.3 4.25N 96.25E 0 3.7,3.5
ISCJB IV 13 07 22 51.6–.85 4.24N–.09 96.2E–.10 31 3.5b,3.5
ISC Event type ke.
ISCJB Event type ke.
IDC IV 14 13 08 27.5–9.4 3.06N 97.13E 66–64 3.7,3.5

¶17201028

IDC Error ellipse: s-maj=140.4km s-min=26.5km az=58.0.
ISC IV 14 14 31 46.2–1.1 1.27N–.06 97.0E–.10 28 3.8b 18 1-56
IDC IV 14 14 31 41.9–1.8 1.19N 97.05E 0 3.6,3.6b **¶17201031**
ISCJB IV 14 14 31 44.0–.94 1.23N–.05 96.92E–.10 28 3.6b,3.6b
DJA IV 14 14 31 45.7–.90 1N–3.0 97E–7.0 29–7 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 14 22 47 17.9–1.0 1.0N–.10 97.2E–.10 25 4.3b 25 1-88
IDC IV 14 22 47 14.1–1.4 0.95N 97.21E 0 4.1,4.1b **¶16577816**
ISCJB IV 14 22 47 16.3–.96 1.0N–.10 97.17E–.09 25 4.2b,4.1b
DJA IV 14 22 47 18.6–.50 2N–4.0 98E–4.0 10 3.6,3.6
NEIC IV 14 22 47 19.2–.61 0.96N 97.28E 35 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=34.8km s-min=23.8km az=43.0.
ISCJB Event type se. Error ellipse: s-maj=17.9km s-min=12.6km az=169.2.
NEIC Event type se. Error ellipse: s-maj=12.6km s-min=10.9km az=86.0.
ISC IV 18 12 05 43.7–1.0 0.25N–.07 98.54E–.06 48 3.7b 16 1-55
IDC IV 18 12 05 35.2–4.0 0.09N 98.40E 0 3.7,3.6b **¶17201410**
DJA IV 18 12 05 42.9–.50 0N–4.0 99E–3.0 10 3.9b,3.8
ISC Event type ke.
ISC IV 18 17 34 28.7–.84 1.81N–.09 99.7E–.10 138 3.9b 13 1-83
IDC IV 18 17 34 30.2–1.3 1.65N 99.51E 165–6 4.1,3.7 **¶17201433**
DJA IV 18 17 34 31.2–.90 2N–5.0 100E–5.0 146–13 3.3,3.3
ISC Event type ke.
ISC IV 18 22 40 36.1–.69 0.45N–.04 98.76E–.04 72–6 4.5b 190 1-143
BJI IV 18 22 40 26.8 0.52S 98.92E 66 4.8b,4.7s **¶16445789**
KLM IV 18 22 40 33.3 0.49N 98.38E 50 4.6b,4.7s
MOS IV 18 22 40 34.2–1.0 0.54N 98.96E 63 4.7b,4.7s
ISCJB IV 18 22 40 36.3–.39 0.52N–.03 98.78E–.04 83–3 4.4b,4.7s
IDC IV 18 22 40 36.9–3.0 0.50N 98.90E 75–26 4.3,4.1
NEIC IV 18 22 40 37.0–.59 0.48N 98.89E 76–5 4.6b,4.1
DJA IV 18 22 40 38.0–.70 1N–2.0 99E–3.0 39–8 5.2b,4.9
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC IV 21 19 49 58.6–.81 2.17N–.06 96.30E–.08 27 4.0b 25 1-79
IDC IV 21 19 49 53.9–1.4 2.01N 96.12E 0 3.8,3.8 **¶16596719**
DJA IV 21 19 49 55.8–1.0 2N–4.0 96E–7.0 58–17 4.5b,4.0
NEIC IV 21 19 50 00.4–5.5 2.12N 96.31E 44–43 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=44.0km s-min=19.7km az=47.0.
NEIC Event type se. Error ellipse: s-maj=59.1km s-min=10.3km az=57.0.
ISC IV 22 09 47 07.7–.56 5.23N–.07 97.00E–.07 35 4.3b,3.4s 35 0-140
DJA IV 22 09 47 01.8–.90 5N–5.0 97E–6.0 13–3 5.5b,4.9 **¶16631194**
ISCJB IV 22 09 47 06.1–.42 5.23N–.05 97.03E–.06 33 4.1b,3.4s
NEIC IV 22 09 47 10.1–1.8 5.03N 97.10E 59–15 4.2b,3.4s
IDC IV 22 09 47 10.8–3.1 4.97N 97.04E 67–27 4.2,4.2L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=6.1km az=143.6.
NEIC Event type se. Error ellipse: s-maj=22.7km s-min=10.8km az=67.0.
IDC Error ellipse: s-maj=30.1km s-min=13.8km az=68.0.
ISC IV 22 13 01 36.4–1.4 0.77N–.08 97.17E–.10 25 3.4b 13 1-54
IDC IV 22 13 01 33.7–1.8 0.87N 97.41E 0 3.4,3.3 **¶17201815**
ISCJB IV 22 13 01 34.0–1.0 0.74N–.06 96.99E–.08 25 3.3b,3.0s
DJA IV 22 13 01 37.1–1.3 1N–6.0 97E–7.0 26–5 3.2,3.2
ISC Event type ke.
ISCJB Event type ke.
ISC IV 22 22 03 41.0–1.8 0.9N–.20 97.7E–.30 27 3.6b 8 2-54
IDC IV 22 22 03 36.2–2.0 0.78N 97.49E 0 4.4L,3.6 **¶17201840**
ISCJB IV 22 22 03 38.5–1.4 0.8N–.10 97.5E–.20 27 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
IDC IV 23 00 06 44.2–7.2 5.46N 95.09E 0 3.7,3.6

¶17201844

IDC Error ellipse: s-maj=368.2km s-min=21.9km az=57.0.
ISC IV 23 16 20 39.0–1.1 0.3N–.10 98.58E–.10 43 3.8b 14 1-144
IDC IV 23 16 20 32.4–1.4 0.12N 98.48E 0 3.7b,3.7 **¶17201890**
ISCJB IV 23 16 20 36.7–.98 0.2N–.10 98.5E–.10 43 3.7b,3.7
DJA IV 23 16 20 41.9–1.9 1N–7.0 99E–6.0 11–18 3.5,3.5
ISC Event type ke.
ISCJB Event type ke.
ISC IV 24 21 45 35.8–1.2 0.7N–.10 97.3E–.20 23 3.5b 9 3-145
IDC IV 24 21 45 31.9–1.3 0.53N 97.10E 0 4.0,4.0s **¶17201987**
ISCJB IV 24 21 45 34.0–1.1 0.6N–.10 97.2E–.20 23 4.0s,3.5b
ISC Event type ke.
ISCJB Event type ke.
ISC IV 25 02 54 42.0–.95 0.43N–.07 98.08E–.07 29 3.5b 16 1-54
ISCJB IV 25 02 54 41.6–.93 0.48N–.08 98.00E–.08 29 3.4b **¶17202005**
IDC IV 25 02 54 41.7–7.3 1.19N 99.02E 0 3.5,3.4
DJA IV 25 02 54 46.6–.60 1N–4.0 98E–4.0 32–9 3.9,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC IV 25 15 50 51.3–5.9 1.59N 99.28E 0 3.6,3.5

¶17202056

IDC Error ellipse: s-maj=305.8km s-min=23.2km az=56.0.
ISC IV 27 01 21 28.5–1.4 0.8N–.10 97.2E–.10 27 3.4b 15 1-57
ISCJB IV 27 01 21 26.7–1.0 0.80N–.08 97.14E–.08 27 3.5b **¶17202200**
DJA IV 27 01 21 27.7–1.5 1N–10 97E–11 46–25 3.6,3.6
IDC IV 27 01 21 39.0–5.9 1.29N 97.86E 95–45 3.5,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=7.4km az=135.7.
IDC Error ellipse: s-maj=61.8km s-min=22.0km az=58.0.
ISC IV 27 04 55 29.3–.41 2.14N–.05 96.62E–.05 28 4.8b,4.1s 175 1-145
KLM IV 27 04 55 28.0 2.18N 96.45E 28 5.6s,4.8b **¶16463267**
ISCJB IV 27 04 55 27.4–.27 2.13N–.03 96.64E–.03 28 4.7b,4.1s
DJA IV 27 04 55 28.2–1.7 2N–3.0 97E–7.0 13–14 5.0b,4.9
MOS IV 27 04 55 28.0–1.1 2.14N 96.68E 33 5.1b,4.9
NEIC IV 27 04 55 31.1–.70 2.15N 96.71E 43–6 4.8b,4.9
IDC IV 27 04 55 31.1–2.5 2.17N 96.74E 43–22 4.6,4.6L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.6km az=44.6.
MOS Error ellipse: s-maj=10.2km s-min=6.1km az=100.5.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=4.3km az=54.0.
IDC Error ellipse: s-maj=15.5km s-min=10.9km az=46.0.
DJA IV 28 07 34 17.2–.30 3N–3.0 98E–3.0 10 4.0b,3.7

¶602004123

IDC IV 28 19 22 17.3–2.8 2.85N 99.59E 128–65 3.3,3.2

¶17202324

IDC Error ellipse: s-maj=212.9km s-min=22.5km az=55.0.
ISC IV 29 08 56 49.0–.26 4.04N–.03 95.80E–.03 58–1 5.7b,4.8s 1437 1-173
BJI IV 29 08 56 44.3 3.84N 95.67E 53 5.7b,5.3b **¶16482384**
MOS IV 29 08 56 47.3–1.0 4.20N 95.88E 54 6.0b,4.6s
GCMT IV 29 08 56 47.9–.20 3.97N 96.04E 75–1 5.4W,4.6s
ISCJB IV 29 08 56 47.9–.33 4.02N–.02 95.82E–.02 62–2 5.6b,4.6s
NEIC IV 29 08 56 47.7–.12 4.03N 95.76E 44 5.7,5.7b
IDC IV 29 08 56 48.9–.39 4.15N 95.91E 55–3 5.5,5.3b
DJA IV 29 08 56 49.5–.30 4N–2.0 96E–3.0 56–2 6.0,5.8b
ISC Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s85,c129; s109,c209;Duration: 1$3 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.03 $M_{\theta\theta}$0.83±.03; $M_{\phi\phi}$-0.66±.03; $M_{r\theta}$0.79±.02; $M_{\theta\phi}$-1.39±.03; $M_{\phi r}$0.18±.03; Best double couple: NP1:ϕ_s257.00000°,δ87.00000°,λ-152.00000°. NP2:ϕ_s166.00000°,δ62.00000°,λ-3.00000°. Principal axes: T 1.8380,Plg17.0000°,Azm28.0000° ; N -0.1260,Plg62.0000°,Azm263.0000°; P -1.7130,Plg21.0000°,Azm125.0000° $M_0$1.77600×10^{17}
ISCJB Event type fe.
NEIC Event type fe. Felt [IV] at Banda Aceh and [III] at Meulaboh. Depth from synthetics of broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. s10 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.56 $M_{\theta\theta}$0.18 $M_{\phi\phi}$0.38 $M_{r\theta}$1.06 $M_{\theta\phi}$-0.69 $M_{\phi r}$-0.25 Best double couple: NP1:ϕ_s288.00000°,δ76.00000°,λ-116.00000°. NP2: ϕ_s173.00000°,δ30.00000°,λ-29.00000°. Principal axes: T 1.4200,Plg26.0000°,Azm39.0000° ; N -0.0800,Plg26.0000°,Azm295.0000°; P -1.3400,Plg52.0000°,Azm168.0000° $M_0$1.40000×10^{17}
IDC IV 29 10 11 59.2–3.2 1.94N 99.25E 119–11 3.6,3.5

¶17202371

IDC Error ellipse: s-maj=180.5km s-min=24.8km az=55.0.
IDC IV 29 22 31 30.4–1.2 2.45N 99.13E 152–9 3.6,3.3

¶17202419

IDC Error ellipse: s-maj=93.1km s-min=17.6km az=59.0.
ISC IV 30 17 09 00.2–.71 1.06N–.08 98.92E–.06 86 4.1b 40 0-143
ISCJB IV 30 17 08 58.4–.57 0.97N–.06 98.88E–.05 86 4.0b **¶16485932**
IDC IV 30 17 09 00.8–2.6 1.04N 98.95E 94–17 4.0,3.8
NEIC IV 30 17 09 02.9–.50 1.16N 98.95E 109–4 4.2b,3.8
DJA IV 30 17 09 03.8–.40 1N–4.0 99E–4.0 86–7 3.9,3.9
KLM IV 30 17 09 03.0 1.16N 98.95E 122 5.6s,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.5km az=34.8.
IDC Error ellipse: s-maj=37.4km s-min=15.7km az=56.0.
NEIC Event type se. Error ellipse: s-maj=9.2km s-min=6.0km az=223.0.
ISC V 01 04 11 31.0–1.2 0.6N–.10 98.4E–.10 43 3.3b 10 1-70
IDC V 01 04 11 24.0–1.4 0.48N 98.20E 0 4.0s,4.0 **¶17202495**
ISCJB V 01 04 11 29.4–.97 0.55N–.09 98.36E–.08 43 3.9s,3.3b
DJA V 01 04 11 33.2–2.8 1N–7.0 99E–9.0 30–30 3.4,3.4
ISC Event type ke.
ISCJB Event type ke.
ISC V 01 05 21 46.9–.48 2.65N–.05 97.54E–.04 35 4.2b 54 1-86
KLM V 01 05 21 48.3 2.73N 97.61E 24 5.2s,4.0b **¶16587552**
NEIC V 01 05 21 50.3–.63 2.69N 97.68E 77–6 4.5b,4.0b
DJA V 01 05 21 50.9–.80 3N–3.0 98E–3.0 32–8 5.4b,4.9
IDC V 01 05 21 51.1–1.7 2.79N 97.73E 80–16 4.2,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=10.1km s-min=8.2km az=97.0.
IDC Error ellipse: s-maj=21.9km s-min=18.8km az=48.0.
ISC V 02 19 43 31.0–1.9 4.8N–.20 96.3E–.20 48 3.7b 12 4-46
KLM V 02 19 43 10.9 5.06N 94.85E 44 5.5s,4.4L **¶17202636**
IDC V 02 19 43 19.2–6.0 4.14N 95.01E 0 3.9,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=186.8km s-min=25.6km az=71.0.
DJA V 03 05 40 29.1–1.4 5N–5.0 96E–9.0 10 3.6,3.6

¶602004176

DJA V 03 13 05 32.3–.30 3N–3.0 98E–3.0 10 3.8,3.8

¶602004179

ISC V 04 19 04 21.0–.99 5.03N–.06 95.89E–.09 35 3.7b 16 1-47
IDC V 04 19 04 13.8–1.6 4.37N 95.13E 0 3.7,3.6b **¶17202784**
ISCJB V 04 19 04 19.1–.89 5.04N–.06 95.86E–.07 35 3.6b,3.6b
DJA V 04 19 04 21.8–.90 5N–3.0 96E–6.0 14–5 4.6b,4.0b
ISC Event type ke.
ISCJB Event type ke.
IDC V 04 20 15 31.0–1.7 4.29N 96.37E 0 3.7,3.6

¶17202790

IDC Error ellipse: s-maj=77.1km s-min=25.9km az=51.0.
ISC V 06 18 56 44.1–.67 0.74N–.08 99.79E–.07 150 4.0b 29 1-84
IDC V 06 18 56 26.3–2.8 0.25N 99.13E 0 3.9,3.8 **¶16709049**
ISCJB V 06 18 56 43.3–.50 0.66N–.09 99.8E–.10 150 4.1b,3.8
NEIC V 06 18 56 44.1–.79 0.76N 99.95E 138–7 5.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=165.7km s-min=21.6km az=52.0.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=7.1km az=144.3.
NEIC Event type se. Error ellipse: s-maj=21.2km s-min=9.1km az=55.0.
IDC V 09 12 27 16.1–8.2 4.75N 96.46E 229–78 3.7,3.2

¶17203123

IDC Error ellipse: s-maj=40.5km s-min=20.4km az=49.0.
ISC V 09 17 27 27.0–.59 5.26N–.05 94.18E–.06 54–4 4.5b,3.3s 98 2-142
ISCJB V 09 17 27 26.1–.85 5.22N–.05 94.20E–.06 65–7 4.4b,3.3s **¶16503265**
NEIC V 09 17 27 27.3–1.4 5.23N 94.25E 60–12 4.6b,3.3s
IDC V 09 17 27 27.5–.75 5.41N 94.37E 54–6 4.3,4.1
DJA V 09 17 27 28.6–.70 5N–5.0 95E–6.0 10 4.6b,4.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 12 07 41 09.3–.66 5.18N–.05 94.69E–.05 71–5 4.7b 219 2-142
IDC V 12 07 41 00.5–.67 5.15N 94.70E 0 4.6,4.5b **¶16506400**
NEIC V 12 07 41 06.0–.32 5.14N 94.60E 35 4.8b,4.5b
ISCJB V 12 07 41 07.3–.58 5.19N–.03 94.75E–.03 63–5 4.7b,4.5b
MOS V 12 07 41 07.0–1.1 5.27N 94.83E 57 5.0b,4.5b
DJA V 12 07 41 08.9–1.5 5N–3.0 95E–5.0 35–15 5.7b,5.2
ISC Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.
ISCJB Event type fe.
ISC V 12 08 04 31.8–.41 5.34N–.05 94.27E–.05 46 4.6b,3.9s 178 2-146
ISCJB V 12 08 04 29.8–.27 5.27N–.04 94.23E–.03 46 4.6b,3.9s **¶16506401**
MOS V 12 08 04 31.2–.94 5.30N 94.31E 60 4.8b,3.9s
NEIC V 12 08 04 32.6–.65 5.34N 94.31E 54–6 4.8b,3.9s
IDC V 12 08 04 32.2–.74 5.36N 94.30E 49–7 4.4,4.3
DJA V 12 08 04 38.2–.80 5N–3.0 95E–8.0 77–8 6.0,5.2b
ISC Event type fe.
ISCJB Event type fe.
NEIC Event type fe. Felt [III] at Banda Aceh.
ISC V 13 16 24 33.0–.42 2.03N–.04 96.67E–.05 28 4.5b,4.0s 119 1-84
IDC V 13 16 24 29.3–.95 2.08N 96.66E 0 4.4,4.3 **¶16709787**
ISCJB V 13 16 24 31.1–.28 2.02N–.03 96.61E–.03 28 4.6b,4.0s
NEIC V 13 16 24 32.7–1.6 2.02N 96.62E 26–11 4.5b,4.0s
DJA V 13 16 24 33.7–.50 2N–2.0 97E–4.0 10 4.8b,4.3
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC V 14 19 47 23.8–.53 2.63N–.04 96.96E–.05 33 4.3b,3.6s 53 1-81
NEIC V 14 19 47 25.7–.85 2.53N 96.95E 58–7 4.3b,3.6s **¶16527322**
DJA V 14 19 47 26.6–.40 3N–2.0 97E–3.0 10 4.6b,4.2
IDC V 14 19 47 29.3–7.6 2.67N 97.08E 85–68 4.1L,4.0
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=11.2km s-min=5.5km az=60.0.
IDC Error ellipse: s-maj=38.2km s-min=15.6km az=52.0.
ISC V 18 03 21 16.2–.48 4.25N–.04 97.58E–.04 170–4 4.3b 172 1-142
ISCJB V 18 03 21 15.6–.25 4.21N–.03 97.53E–.03 176–2 4.3b **¶16527343**
IDC V 18 03 21 16.7–.87 4.40N 97.53E 170–7 4.4,4.1
NEIC V 18 03 21 16.6–.53 4.23N 97.51E 173–5 4.6b,4.1
KLM V 18 03 21 18.0 4.22N 97.62E 154 5.4s,4.6b
DJA V 18 03 21 18.4–.60 4N–3.0 98E–4.0 143–5 5.3b,4.7
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
DJA V 18 12 50 45.3–.70 2N–4.0 99E–6.0 107–7 4.6b,3.8

¶602004320

ISC V 18 14 09 15.8–1.1 0.15N–.08 97.01E–.10 22 3.9b 17 1-145
DJA V 18 14 09 06.6–1.3 0S–7.0 97E–12 10 4.3b,4.1 **¶17203883**
ISCJB V 18 14 09 14.0–.88 0.12N–.06 97.02E–.08 22 3.8b,4.1
IDC V 18 14 09 13.2–2.6 0.13N 97.02E 0 4.3L,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=7.5km az=155.7.
IDC Error ellipse: s-maj=113.9km s-min=18.3km az=59.0.
ISC V 20 20 13 41.6–1.1 0.40N–.05 98.45E–.05 44–10 4.5b 140 1-159
IDC V 20 20 13 35.3–.46 0.47N 98.51E 0 4.7L,4.4 **¶16531783**
ISCJB V 20 20 13 41.7–.69 0.42N–.04 98.47E–.05 61–5 4.5b,4.4
NEIC V 20 20 13 42.0–.77 0.37N 98.51E 52–7 4.5b,4.4
DJA V 20 20 13 43.2–.80 1N–5.0 98E–5.0 29–9 4.7b,4.7
KLM V 20 20 13 44.5 0.60N 98.34E 65 6.0s,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=11.5km az=62.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.2km az=145.4.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=5.5km az=59.0.
ISC V 20 21 42 24.5–.73 0.36N–.06 99.85E–.07 35 3.8b 27 1-146

IDC V 20 21 42 20.2–1.1 0.65N 100.17E 0 3.8,3.7 ¶17204087
DJA V 20 21 42 21.8–.30 0N–3.0 100E–3.0 10 5.2b,4.6
ISCJB V 20 21 42 22.6–.42 0.35N–.05 99.88E–.06 33 3.7b,4.6
ISC Event type ke.
ISCJB Event type ke.
ISC V 20 23 20 19.5–.37 0.42N–.05 98.39E–.05 43 4.3b,3.3s 112 1-159
ISCJB V 20 23 20 17.3–.28 0.35N–.04 98.38E–.03 43 4.4b,3.3s ¶16531785
IDC V 20 23 20 19.6–.75 0.50N 98.57E 44–6 4.1,4.0L
DJA V 20 23 20 20.1–.80 0N–3.0 98E–3.0 29–9 4.8b,4.7
NEIC V 20 23 20 20.4–.62 0.38N 98.47E 55–5 4.6b,4.7
KLM V 20 23 20 21.1 0.22N 98.48E 48 6.0s,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.0km az=41.5.
IDC Error ellipse: s-maj=15.2km s-min=10.2km az=64.0.
NEIC Event type se. Error ellipse: s-maj=6.9km s-min=4.0km az=46.0.
IDC V 20 23 23 40.8–2.4 0.36N 98.65E 0 3.6,3.4b
¶17204097
IDC Error ellipse: s-maj=110.4km s-min=23.1km az=61.0.
ISC V 26 15 38 08.1–.40 1.86N–.04 97.84E–.05 46 4.5b,3.6s 138 1-146
KLM V 26 15 38 05.0 1.27N 97.79E 50 4.6b,4.4L ¶16546389
ISCJB V 26 15 38 06.3–.32 1.81N–.04 97.73E–.04 46 4.5b,3.4s
DJA V 26 15 38 08.9–.40 2N–2.0 98E–4.0 27–6 5.1b,4.7b
NEIC V 26 15 38 10.1–1.1 1.96N 97.93E 63–8 4.6b,4.7b
IDC V 26 15 38 10.6–2.7 1.93N 97.92E 67–22 4.3,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.2km az=143.7.
NEIC Event type se. Error ellipse: s-maj=12.9km s-min=5.8km az=46.0.
IDC Error ellipse: s-maj=26.6km s-min=16.4km az=49.0.
DJA V 26 17 59 31.8–.20 2N–2.0 99E–2.0 10 5.2b,4.6
¶602004384
ISC V 27 02 54 25.3–.62 0.27N–.05 97.14E–.07 23 4.1b 45 1-144
ISCJB V 27 02 54 23.7–.50 0.30N–.04 97.15E–.05 23 4.1b ¶16631867
NEIC V 27 02 54 24.6–4.0 0.30N 97.12E 15–25 4.2b
DJA V 27 02 54 26.1–1.6 0N–4.0 97E–8.0 33–21 4.3b,4.1
IDC V 27 02 54 26.6–.95 0.23N 97.05E 28–4 4.0,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.5km az=147.4.
NEIC Event type se. Error ellipse: s-maj=12.8km s-min=6.8km az=54.0.
IDC Error ellipse: s-maj=33.0km s-min=14.9km az=61.0.
ISC V 27 05 45 39.3–.38 4.69N–.05 96.69E–.06 150 4.6b 124 1-152
ISCJB V 27 05 45 37.8–.26 4.57N–.04 96.57E–.04 150 4.6b ¶16549384
IDC V 27 05 45 40.4–1.0 4.67N 96.79E 165–9 4.5,4.1
NEIC V 27 05 45 42.1–.51 4.61N 96.76E 179–4 4.8b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.3km az=148.0.
IDC Error ellipse: s-maj=20.1km s-min=8.2km az=49.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=4.8km az=60.0.
ISC V 27 07 11 52.7–.57 0.36N–.06 97.71E–.08 29 4.5b,3.6s 79 1-145
IDC V 27 07 11 47.9–.81 0.25N 97.66E 0 4.4,4.4b ¶16593314
ISCJB V 27 07 11 50.2–.43 0.24N–.04 97.65E–.05 29 4.5b,3.6s
DJA V 27 07 11 52.3–.50 0N–4.0 98E–5.0 10 5.6b,5.2
NEIC V 27 07 11 53.1–1.1 0.28N 97.69E 35–8 4.6b,5.2
ISC Event type se.
IDC Error ellipse: s-maj=24.8km s-min=14.5km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.4km az=143.8.
NEIC Event type se. Error ellipse: s-maj=13.2km s-min=4.9km az=57.0.
ISC V 27 08 01 28.7–1.1 0.42N–.07 97.97E–.10 29 3.3b 12 1-48
DJA V 27 08 01 24.1–1.5 0N–8.0 97E–13 51–9 3.7,3.7 ¶17204551
IDC V 27 08 01 26.8–7.8 0.96N 98.75E 0 3.6,3.4
ISC Event type ke.
IDC Error ellipse: s-maj=411.1km s-min=30.8km az=55.0.
ISC V 27 08 13 05.8–.48 0.16N–.05 97.57E–.06 29 4.7b,3.9s 116 1-145
IDC V 27 08 13 02.0–.78 0.28N 97.63E 0 4.5,4.4 ¶16549423
ISCJB V 27 08 13 04.4–.35 0.27N–.04 97.63E–.04 29 4.6b,3.9s
DJA V 27 08 13 05.9–.90 0N–5.0 98E–7.0 34–10 4.9b,4.9
NEIC V 27 08 13 06.2–1.5 0.30N 97.68E 27–9 4.7b,4.9
KLM V 27 08 13 10.3 0.35N 97.83E 59 5.5s,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=25.6km s-min=15.3km az=54.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.1km az=138.5.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=4.5km az=51.0.
ISC V 27 08 20 48.4–1.2 0.19N–.09 97.65E–.09 25 4.1b 17 1-55
DJA V 27 08 20 43.8–1.0 0S–7.0 97E–5.0 57–24 4.1,4.1 ¶17204553
IDC V 27 08 20 44.9–1.9 0.19N 97.66E 0 4.1,4.1b
ISCJB V 27 08 20 45.9–1.0 0.17N–.09 97.50E–.07 25 4.1b,4.1b
ISC Event type ke.
ISCJB Event type ke.
ISC V 27 09 43 49.7–.85 0.22N–.06 97.57E–.09 25 4.2b 31 1-144
IDC V 27 09 43 45.9–1.5 0.17N 97.58E 0 4.1,4.1b ¶16711043
ISCJB V 27 09 43 47.7–.63 0.22N–.04 97.52E–.05 25 4.2b,4.1b
DJA V 27 09 43 49.1–.90 0N–5.0 98E–7.0 37–9 4.1,4.1
NEIC V 27 09 43 51.5–.55 0.29N 97.71E 35 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=45.8km s-min=19.0km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=5.5km az=150.7.
NEIC Event type se. Error ellipse: s-maj=14.3km s-min=7.7km az=77.0.
ISC V 28 00 18 04.8–.77 0.74N–.06 97.49E–.08 29 4.2b 22 1-54
IDC V 28 00 18 00.1–2.1 0.63N 97.39E 0 4.5L,3.9 ¶16631874
ISCJB V 28 00 18 02.7–.63 0.72N–.05 97.33E–.06 29 4.1b,3.9
DJA V 28 00 18 04.0–1.0 1N–4.0 97E–8.0 26–6 3.4,3.4
NEIC V 28 00 18 05.2–1.1 0.68N 97.47E 33–8 4.4b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=52.5km s-min=27.2km az=61.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.3km az=156.3.
NEIC Event type se. Error ellipse: s-maj=8.9km s-min=7.3km az=81.0.
DJA V 28 15 00 27.8–.30 1N–3.0 98E–3.0 28–6 4.0b,3.8
¶602004407
ISC V 29 01 45 40.8–.80 2.62N–.08 99.0E–.10 150 3.4b 16 0-80
IDC V 29 01 45 41.3–.63 2.63N 99.08E 162–6 3.6,3.3 ¶17204663
DJA V 29 01 45 41.3–.90 3N–6.0 99E–7.0 172–14 3.4,3.4
ISC Event type ke.
IDC V 30 13 28 14.6–3.7 1.39N 98.70E 0 3.6,3.5
¶17204764
IDC Error ellipse: s-maj=156.7km s-min=21.3km az=58.0.
ISC V 31 01 17 43.4–1.0 1.3N–.10 98.8E–.20 90 3.9b 19 1-108
ISCJB V 31 01 17 41.5–.75 1.29N–.09 98.8E–.10 90 3.9b ¶17204801
IDC V 31 01 17 43.4–1.2 1.30N 98.82E 89–7 4.0,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=21.1km s-min=11.4km az=166.4.
IDC Error ellipse: s-maj=20.9km s-min=12.4km az=75.0.
IDC V 31 19 36 01.6–2.2 0.73N 97.34E 0 3.5,3.3
¶17204843
IDC Error ellipse: s-maj=59.3km s-min=24.5km az=68.0.
ISC V 31 20 13 41.0–.95 0.21N–.10 98.44E–.07 48 4.3b 31 1-81
IDC V 31 20 13 34.4–4.6 0.06N 98.45E 0 3.8b,3.7 ¶16702405
ISCJB V 31 20 13 39.0–.73 0.15N–.08 98.50E–.07 48 4.4b,3.7
NEIC V 31 20 13 40.8–1.1 0.19N 98.49E 44–8 4.6b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=141.4km s-min=42.8km az=115.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=9.7km az=24.6.
NEIC Event type se. Error ellipse: s-maj=14.4km s-min=7.6km az=217.0.
ISC VI 01 08 02 52.9–1.3 3.02N–.07 96.32E–.08 31 3.3b 11 1-50
IDC VI 01 08 02 46.2–1.9 2.66N 95.71E 0 3.4,3.3 ¶17204873
DJA VI 01 08 02 54.3–.80 3N–5.0 96E–5.0 10 3.4,3.4
ISC Event type ke.
ISC VI 03 05 42 59.1–1.5 4.77N–.07 96.0E–.10 29 3.8b 13 1-47
IDC VI 03 05 42 52.8–6.3 4.54N 95.68E 0 4.1,4.1L ¶17205063
DJA VI 03 05 42 56.5–1.2 5N–5.0 96E–10 10 4.7b,4.5
ISC Event type ke.
IDC VI 04 03 12 05.7–8.2 2.09N 98.15E 0 3.9,3.8
¶17205152
IDC Error ellipse: s-maj=395.3km s-min=28.9km az=55.0.
DJA VI 05 04 54 29.5–.70 0N–5.0 99E–5.0 59–16 3.9,3.9
¶602004469
IDC VI 05 07 09 55.5–3.0 0.94N 97.75E 0 3.6,3.5
¶17205287
IDC Error ellipse: s-maj=95.8km s-min=28.4km az=62.0.
ISC VI 05 20 04 14.2–.38 4.96N–.04 95.77E–.04 104–3 4.3b 177 1-147
ISCJB VI 05 20 04 13.9–.39 4.97N–.03 95.81E–.04 115–3 4.3b ¶16577397
BJI VI 05 20 04 13.2 4.80N 95.80E 104 4.5b,4.1b
NEIC VI 05 20 04 14.8–.75 4.99N 95.86E 110–7 4.5b,4.1b
IDC VI 05 20 04 14.4–.49 5.12N 95.95E 100–3 4.3,4.0
KLM VI 05 20 04 18.0 4.87N 95.99E 94 4.6b,4.5L
DJA VI 05 20 04 18.0–.30 5N–2.0 96E–3.0 92–3 5.5b,5.0
ISC Event type se.
ISCJB Event type se.
NEIC Event type se.
ISC VI 08 05 48 47.6–1.3 2.45N–.07 96.3E–.10 27 3.9b 12 1-52
IDC VI 08 05 48 39.1–3.0 1.80N 96.43E 0 4.1,4.0 ¶17205534
DJA VI 08 05 48 41.3–1.8 3N–9.0 96E–17 93–23 4.0b,3.8
ISCJB VI 08 05 48 45.0–1.0 2.24N–.07 96.31E–.08 27 3.9b,3.8
ISC Event type ke.
ISCJB Event type ke.
IDC VI 09 07 23 09.7–3.4 5.25N 94.84E 0 3.9,3.8
¶17205605
IDC Error ellipse: s-maj=138.0km s-min=21.6km az=61.0.
ISC VI 09 11 11 17.1–.84 1.60N–.08 99.59E–.09 166 3.6b 18 1-71
IDC VI 09 11 10 57.8–1.3 1.57N 99.51E 0 4.1,4.0 ¶17205616
ISCJB VI 09 11 11 16.6–.57 1.68N–.07 99.62E–.07 166 3.8b,4.0
DJA VI 09 11 11 19.0–.60 2N–5.0 99E–5.0 157–6 3.7,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC VI 10 22 49 42.5–.56 4.68N–.06 96.47E–.09 150 3.9b 32 0-85
ISCJB VI 10 22 49 41.2–.40 4.65N–.06 96.31E–.09 150 3.9b ¶17205738
DJA VI 10 22 49 44.4–.80 5N–4.0 96E–6.0 117–5 3.8,3.8
IDC VI 10 22 49 46.4–5.2 4.85N 96.40E 181–48 4.1,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=5.6km az=149.1.
IDC Error ellipse: s-maj=26.0km s-min=12.3km az=48.0.
ISC VI 12 02 35 18.6–1.7 2.46N–.09 96.3E–.20 37 3.9b 7 1-52
ISCJB VI 12 02 35 16.5–1.4 2.4N–.10 96.2E–.10 37 3.7b ¶17205812
DJA VI 12 02 35 16.1–4.9 2N–6.0 96E–47 14–19 4.0b,3.6
IDC VI 12 02 35 17.4–8.1 3.20N 97.47E 0 3.8,3.7
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=23.2km s-min=13.7km az=150.6.
IDC Error ellipse: s-maj=394.8km s-min=28.5km az=55.0.
ISC VI 13 11 41 43.9–1.4 1.2N–.10 97.1E–.10 25 4.1b 16 1-56
ISCJB VI 13 11 41 41.1–1.1 1.1N–.10 96.91E–.07 25 4.6s,4.1b ¶17206047
IDC VI 13 11 41 41.5–5.9 1.32N 97.12E 0 4.6s,4.6
DJA VI 13 11 41 42.6–1.8 1N–8.0 97E–11 19–9 4.4b,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 14 00 08 34.4–.35 1.78N–.03 99.07E–.03 29–2 5.2b,5.1s 861 1-177
IDC VI 14 00 08 28.1–.37 1.76N 99.10E 0 4.9,4.9s ¶602897630
KLM VI 14 00 08 28.3 1.64N 98.95E 10 6.2s,5.8L
BJI VI 14 00 08 29.4 1.37N 98.90E 24 5.7s,5.4
NEIC VI 14 00 08 32.5–.20 1.83N 99.23E 17 5.5W,5.5W
NEIC VI 14 00 08 33.0–.00 1.63N 99.28E 23 5.5W,5.5W
ISCJB VI 14 00 08 33.0–.61 1.82N–.02 99.16E–.02 25–4 5.1s,5.0b
MOS VI 14 00 08 34.7–2.0 2.05N 99.20E 33 5.4b,5.1s
GCMT VI 14 00 08 35.2–.10 1.85N 99.11E 21–0 5.5W,5.1s
DJA VI 14 00 08 35.7–.10 2N–2.0 99E–2.0 10 6.1,5.8
ISC Event type fe.
NEIC Event type fe. Felt [IV] at Sibolga and Tarutung and [III] at Medan. Also felt at Pematangsiantar. Felt [III] at Gunungsitoli, Nias. Felt [III] in the Kuala Lumpur area and at Subang Jaya; [II] at Kajang, Klang, Petaling Jaya and Shah Alam, Malaysia. Also felt at Kampung Gelugor, Sepang and Tanjong Karang. Moment Tensor Solution. s22 Moment tensor: Scale 10^{17}Nm; M_{rr}0.05 $M_{\theta\theta}$-1.66 $M_{\phi\phi}$1.61 $M_{r\theta}$0.28 $M_{\theta\phi}$0.93 $M_{\phi r}$-0.31 Best double couple: NP1:ϕ_s240.00000°,δ78.00000°,λ-2.00000°. NP2:ϕ_s330.00000°,δ88.00000°,λ-168.00000°. Principal axes: T 1.8900,Plg7.0000°,Azm104.0000° ; N 0.0800,Plg78.0000°,Azm339.0000°; P -1.9700,Plg10.0000°,Azm195.0000° $M_0$1.90000×10^{17} Moment Tensor Solution. s18 Moment tensor: Scale 10^{17}Nm; M_{rr}0.20 $M_{\theta\theta}$-1.34 $M_{\phi\phi}$1.14 $M_{r\theta}$-0.15 $M_{\theta\phi}$0.68 $M_{\phi r}$0.34 Best double couple: NP1:ϕ_s60.00000°,δ75.00000°,λ5.00000°. NP2:ϕ_s329.00000°,δ86.00000°,λ165.00000°. Principal axes: T 1.3900,Plg14.0000°,Azm283.0000°; N 0.1600,Plg74.0000°,Azm133.0000° ; P -1.5500,Plg8.0000°,Azm15.0000° $M_0$1.50000×10^{17}
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-1.60 $M_{\phi\phi}$1.70 $M_{r\theta}$0.60 $M_{\theta\phi}$0.60 $M_{\phi r}$-0.20 Best double couple: NP1:ϕ_s326.00000°,δ78.00000°,λ-165.00000°. NP2:ϕ_s233.00000°,δ76.00000°,λ-11.00000°. Principal axes: T 1.9000,Plg2.0000°,Azm99.0000°; N 0.1000,Plg71.0000°,Azm3.0000° ; P -1.9000,Plg17.0000°,Azm190.0000° $M_0$2.00000×10^{17}
ISCJB Event type fe.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s97,c160; s124,c250;Duration: 1♯4 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.03 $M_{\theta\theta}$-1.93±.03; $M_{\phi\phi}$1.86±.03; $M_{r\theta}$-0.73±.06; $M_{\theta\phi}$0.94±.02; $M_{\phi r}$-0.71±.06; Best double couple: NP1:ϕ_s239.00000°,δ85.00000°,λ25.00000°. NP2:ϕ_s147.00000°,δ65.00000°,λ175.00000°. Principal axes: T 2.4050,Plg21.0000°,Azm106.0000° ; N -0.1200,Plg65.0000°,Azm249.0000°; P -2.2850,Plg14.0000°,Azm10.0000° $M_0$2.34500×10^{17}
ISC VI 14 00 58 45.2–1.5 1.76N–.05 99.06E–.06 35 12 0-5
ISCJB VI 14 00 58 43.0–.79 1.69N–.07 99.23E–.07 33 ¶602004529
DJA VI 14 00 58 42.7–.30 2N–3.0 99E–4.0 10 4.0,4.0
ISC Event type ke.
ISCJB Event type ke.
ISC VI 14 03 01 30.7–.33 1.85N–.02 99.08E–.03 29–1 5.5s,5.3b 1254 1-177
BJI VI 14 03 01 24.2 1.39N 98.94E 23 6.0s,5.8 ¶16594456
IDC VI 14 03 01 25.6–.36 1.90N 99.13E 0 5.2s,5.2
ISCJB VI 14 03 01 29.1–.57 1.87N–.02 99.13E–.02 29–4 5.5s,5.2b
GCMT VI 14 03 01 29.8–.10 1.81N 99.11E 17–0 5.7W,5.2b
KLM VI 14 03 01 29.4 1.86N 99.25E 10 6.4s,5.8L
NEIC VI 14 03 01 29.0–.00 1.83N 99.13E 22 6.4s,5.8L
NEIC VI 14 03 01 29.8–.16 1.84N 99.11E 22 5.6W,5.6W
DJA VI 14 03 01 30.6–.10 2N–2.0 99E–2.0 10 5.9b,5.8
MOS VI 14 03 01 31.0–1.3 2.02N 99.15E 40 5.4b,5.4s
ISC Event type fe.
IDC Error ellipse: s-maj=14.0km s-min=9.8km az=63.0.
ISCJB Event type fe. Error ellipse: s-maj=3.5km s-min=2.7km az=135.1.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s114,c203; s125,c350;Duration: 1♯7 Moment tensor: Scale 10^{17}Nm; M_{rr}0.07±.04 $M_{\theta\theta}$-3.44±.04; $M_{\phi\phi}$3.37±.04; $M_{r\theta}$-2.09±.13; $M_{\theta\phi}$1.52±.04; $M_{\phi r}$-0.79±.11; Best double couple: NP1:ϕ_s57.00000°,δ87.00000°,λ-30.00000°. NP2:ϕ_s149.00000°,δ60.00000°,λ-177.00000°. Principal axes: T 4.1000,Plg19.0000°,Azm107.0000°; N 0.4540,Plg60.0000°,Azm232.0000° ; P -4.5580,Plg23.0000°,Azm8.0000° $M_0$4.32900×10^{17}
NEIC Event type se. Moment Tensor Solution. s28 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.10 $M_{\theta\theta}$-2.90 $M_{\phi\phi}$2.90 $M_{r\theta}$1.00 $M_{\theta\phi}$1.30 $M_{\phi r}$-0.50 Best double couple: NP1:ϕ_s328.00000°,δ80.00000°,λ-164.00000°. NP2:ϕ_s235.00000°,δ74.00000°,λ-9.00000°. Principal axes: T 3.2000,Plg4.0000°,Azm101.0000°; N 0.3000,Plg71.0000°,Azm357.0000° ; P -3.5000,Plg17.0000°,Azm192.0000° $M_0$3.00000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=6.0km s-min=4.1km az=46.0. Felt [IV] at Sibolga and Tarutung. Felt [III] at Gunungsitoli, Nias. Felt [III] at Subang Jaya and [II] at Ampang, Kampung Salak Tinggi, George Town, Kajang, Klang, Kuala Lumpur, Petaling Jaya and Shah Alam, Malaysia. Felt widely in the George Town-Melaka area. Moment Tensor Solution. s27 Moment tensor: Scale 10^{17}Nm; M_{rr}0.58 $M_{\theta\theta}$-2.93 $M_{\phi\phi}$2.35 $M_{r\theta}$0.35 $M_{\theta\phi}$1.20 $M_{\phi r}$0.11 Best double couple: NP1:ϕ_s327.00000°,δ83.00000°,λ180.00000°. NP2:ϕ_s57.00000°,δ90.00000°,λ7.00000°. Principal axes: T 2.6200,Plg5.0000°,Azm282.0000° ; N 0.5900,Plg83.0000°,Azm58.0000°; P -3.2100,Plg5.0000°,Azm192.0000° $M_0$3.00000×10^{17} Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}0.54 $M_{\theta\theta}$-2.92 $M_{\phi\phi}$2.38 $M_{r\theta}$-0.59 $M_{\theta\phi}$0.47 $M_{\phi r}$-0.03 Best double couple: NP1:ϕ_s50.00000°,δ85.00000°,λ-8.00000°. NP2:ϕ_s140.00000°,δ82.00000°,λ-175.00000°. Principal axes: T 2.4200,Plg2.0000°,Azm95.0000°; N 0.6300,Plg80.0000°,Azm200.0000° ; P -3.0500,Plg9.0000°,Azm5.0000° $M_0$2.80000×10^{17}

MOS Error ellipse: s-maj=7.4km s-min=4.1km az=108.6.
DJA VI 14 03 57 23.3–.30 2N–3.0 99E–4.0 10 3.8,3.8
¶602004532
ISC VI 14 04 59 10.7–.61 1.84N–.04 99.19E–.05 10 3.9b 25 0-142
ISCJB VI 14 04 59 11.7–.54 1.80N–.05 99.15E–.05 10 3.8b **¶16730450**
DJA VI 14 04 59 12.7–.20 2N–2.0 99E–3.0 10 4.2,4.2
IDC VI 14 04 59 26.3–9.8 2.07N 99.79E 148–92 3.8,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=8.1km s-min=5.7km az=140.6.
IDC Error ellipse: s-maj=42.5km s-min=15.0km az=58.0.
DJA VI 14 05 22 11.9–.30 2N–3.0 99E–3.0 10 4.0,4.0
¶602004534
DJA VI 14 10 41 57.7–.20 2N–2.0 99E–2.0 10 3.6,3.6
¶602004537
DJA VI 14 16 53 34.5–.20 2N–2.0 99E–2.0 10 3.7,3.7
¶602004543
IDC VI 14 19 03 37.0–29 1.88N 99.40E 439–362 3.5,2.8
¶17206132
IDC Error ellipse: s-maj=130.7km s-min=17.1km az=63.0.
DJA VI 15 23 53 48.2–.40 2N–4.0 99E–3.0 10 3.4,3.4
¶602004570
ISC VI 18 11 57 59.6–1.2 1.77N–.03 99.06E–.03 17–7 4.8b,4.7s 342 1-147
BJI VI 18 11 57 54.6 1.31N 98.78E 15 5.2b,5.1s **¶16631602**
ISCJB VI 18 11 57 57.0–.19 1.81N–.02 99.00E–.03 10 4.7b,4.5s
MOS VI 18 11 57 59.6–1.7 1.77N 99.12E 33 5.0b,4.5s
DJA VI 18 11 58 00.7–.20 2N–2.0 99E–2.0 10 5.7b,5.4
GCMT VI 18 11 58 01.0–.20 1.80N 99.12E 17–1 5.2W,5.4
KLM VI 18 11 58 02.0 1.80N 99.25E 20 6.1s,5.4L
NEIC VI 18 11 58 01.0–1.3 1.85N 99.11E 25–9 5.0W,4.9b
IDC VI 18 11 58 06.7–4.5 1.82N 99.14E 75–41 4.7,4.6s
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.9km s-min=2.6km az=143.6.
MOS Error ellipse: s-maj=10.4km s-min=5.7km az=111.6.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s40,c49; s100,c153; Duration: 1s0 Moment tensor: Scale 10^{17}Nm; M_{rr}-0.17±.02 $M_{\theta\theta}$-0.58±.02; $M_{\phi\phi}$0.74±.02; $M_{r\theta}$-0.21±.05; $M_{\theta\phi}$-0.11±.01; $M_{\phi r}$-0.49±.07; Best double couple: NP1:ϕ_s36.00000°,δ86.00000°,λ-40.00000°. NP2:ϕ_s129.00000°,δ51.00000°,λ-175.00000°. Principal axes: T 0.9560,Plg23.0000°,Azm89.0000°; N -0.2240,Plg50.0000°,Azm211.0000°; P -0.7310,Plg30.0000°,Azm345.0000° $M_0$0.84400×10^{17}
NEIC Event type fe. Error ellipse: s-maj=8.1km s-min=5.3km az=219.0. Felt [V] at Sibolga and [IV] at Sarulla and Tarutung. Felt [IV] at Petaling Jaya and [II] at Kuala Lumpur, Malaysia. Also felt at Balakong, Kajang-Sungai Chua, Klang, Nilai, Rawang, Shah Alam and Subang Jaya. Moment Tensor Solution. s14 Moment tensor: Scale 10^{16}Nm; M_{rr}-1.32 $M_{\theta\theta}$-3.30 $M_{\phi\phi}$4.62 $M_{r\theta}$1.08 $M_{\theta\phi}$-1.09 $M_{\phi r}$-0.26 Best double couple: NP1:ϕ_s215.00000°,δ72.00000°,λ-13.00000°. NP2:ϕ_s310.00000°,δ77.00000°,λ-161.00000°. Principal axes: T 4.7900,Plg4.0000°,Azm82.0000°; N -0.9200,Plg67.0000°,Azm343.0000°; P -3.8700,Plg22.0000°,Azm173.0000° $M_0$4.40000×10^{16}
IDC Error ellipse: s-maj=19.3km s-min=10.5km az=51.0.
IDC VI 18 12 01 07.5–1.5 1.41N 98.91E 0 4.5,4.3
¶17206461
IDC Error ellipse: s-maj=68.5km s-min=25.7km az=51.0.
DJA VI 18 12 07 02.5–.30 1N–3.0 99E–3.0 49–9 4.2,4.2
¶602004581
ISC VI 18 13 08 47.6–.83 1.70N–.06 99.23E–.07 10 3.5b 13 0-83
IDC VI 18 13 08 44.4–2.9 1.35N 98.65E 0 3.8,3.7 **¶17206462**
ISCJB VI 18 13 08 46.1–.63 1.79N–.07 99.28E–.08 10 3.6s,3.5b
DJA VI 18 13 08 47.5–.40 2N–4.0 99E–6.0 16–7 4.2,4.2
ISC Event type ke.
ISCJB Event type ke.
ISC VI 18 23 25 38.2–.39 4.38N–.04 96.48E–.04 33 4.4b 88 0-147
BJI VI 18 23 25 34.8 3.89N 96.59E 49 4.7b,4.4b **¶16684538**
ISCJB VI 18 23 25 36.0–.29 4.38N–.03 96.44E–.04 33 4.4b,3.4s
DJA VI 18 23 25 36.5–.60 4N–3.0 96E–8.0 18–6 4.7,4.6
KLM VI 18 23 25 38.6 4.44N 96.52E 42 4.6b,4.3L
NEIC VI 18 23 25 38.4–.73 4.44N 96.54E 38–6 4.7b,4.3L
IDC VI 18 23 25 43.5–9.0 4.59N 96.69E 75–83 4.1,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=148.8.
NEIC Event type se. Error ellipse: s-maj=7.8km s-min=4.7km az=53.0.
IDC Error ellipse: s-maj=23.8km s-min=13.0km az=51.0.
ISC VI 19 00 19 09.1–.55 1.72N–.04 99.07E–.04 10 3.9b,3.7s 39 1-90
IDC VI 19 00 19 04.9–1.3 1.32N 98.90E 0 3.9,3.8b **¶16730929**
ISCJB VI 19 00 19 08.7–.39 1.78N–.04 99.14E–.04 10 3.9b,3.8s
DJA VI 19 00 19 09.6–.20 2N–2.0 99E–2.0 10 4.2,4.2
NEIC VI 19 00 19 11.8–.82 1.32N 99.00E 53–9 4.1b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=47.3km s-min=24.4km az=47.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=143.1.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=8.6km az=88.0.
ISC VI 20 03 32 48.7–1.4 1.87N–.03 99.13E–.03 1–11 3.8b 31 0-58
IDC VI 20 03 32 46.8–3.5 1.59N 98.94E 0 4.6L,4.0 **¶16731007**
ISCJB VI 20 03 32 50.4–1.4 1.85N–.04 99.10E–.04 8–10 3.7b,4.0
DJA VI 20 03 32 51.6–.30 2N–3.0 99E–3.0 10 4.2,4.2
NEIC VI 20 03 32 54.0–.77 1.89N 98.96E 35 3.8b,4.2
KLM VI 20 03 33 00.7 2.03N 99.61E 52 4.5b,4.1L
ISC Event type fe.
IDC Error ellipse: s-maj=157.2km s-min=26.0km az=56.0.
ISCJB Event type fe. Error ellipse: s-maj=8.0km s-min=6.6km az=40.0.
NEIC Event type fe. Error ellipse: s-maj=14.3km s-min=13.1km az=91.0. Felt [III] at Sibolga and Tarutung.
ISC VI 20 04 00 08.1–.68 1.55N–.09 99.72E–.09 166 3.4b 23 1-83
ISCJB VI 20 04 00 07.3–.48 1.70N–.07 99.88E–.07 166 3.6b **¶17206572**
DJA VI 20 04 00 09.5–.50 1N–4.0 100E–4.0 166–6 3.6,3.6
IDC VI 20 04 00 09.8–9.6 1.47N 99.58E 186–89 3.9s,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=12.2km s-min=6.3km az=41.5.
IDC Error ellipse: s-maj=41.5km s-min=14.1km az=58.0.
DJA VI 21 08 12 06.1–.30 2N–3.0 99E–3.0 10 3.7,3.7
¶602004607
DJA VI 24 05 01 19.5–.50 5N–2.0 96E–6.0 16–4 4.0,3.9
¶602004622
IDC VI 30 15 04 22.0–8.9 1.25N 99.76E 0 3.7,3.5
¶17207262
IDC Error ellipse: s-maj=442.6km s-min=27.6km az=54.0.

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ISC I 24 21 37 52.6–7.5 34.2N–.80 68.0E–.20 10 5 9-23
IDC I 24 21 37 52.3–13 34.21N 67.85E 0 3.7b,3.4 **¶17190924**
NNC I 24 21 38 39.1–8.4 37.10N 70.63E 0 3.9b,3.5
ISC Event type ke.
IDC Error ellipse: s-maj=224.5km s-min=41.9km az=168.0.
NNC Event type se. Error ellipse: s-maj=71.2km s-min=62.9km az=94.0.
ISC II 05 14 15 20.3–2.0 32.3N–.10 67.8E–.20 35 18 3-86
IDC II 05 14 15 14.7–3.9 32.20N 67.99E 0 3.5,3.4 **¶17191742**
ISC Event type ke.
IDC Error ellipse: s-maj=129.2km s-min=46.1km az=124.0.
ISC II 26 08 07 30.1–1.3 34.5N–.10 70.2E–.20 10 3.5b 13 4-84
IDC II 26 08 07 28.6–1.3 34.44N 70.33E 0 3.5,3.4 **¶16398977**
ISCJB II 26 08 07 29.5–.94 34.53N–.07 70.3E–.20 10 3.4b,3.4
NNC II 26 08 07 40.8–4.1 35.18N 69.09E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=38.3km s-min=22.0km az=84.0.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=10.3km az=2.3.
NNC Event type se. Error ellipse: s-maj=66.4km s-min=32.3km az=92.0.
IDC IV 12 18 41 11.9–10 34.93N 70.21E 0 3.7,3.6s
¶17200798
IDC Error ellipse: s-maj=155.1km s-min=37.3km az=160.0.

ISC VI 01 03 43 32.6–.49 34.36N–.05 69.50E–.04 24 4.0b 113 0-84
NEIC VI 01 03 43 33.4–1.4 34.46N 69.20E 27–9 4.1b **¶16587344**
MOS VI 01 03 43 33.6–2.6 34.43N 69.75E 36 4.2b
NNC VI 01 03 43 36.5–4.0 34.68N 69.59E 0 4.8b,4.5
IDC VI 01 03 43 39.4–3.8 34.72N 69.85E 64–33 4.0,3.8
ISC Event type fe.
NEIC Event type fe. Error ellipse: s-maj=18.3km s-min=13.0km az=155.0. Felt [III] at Kabul. Also felt at Charikar.
MOS Error ellipse: s-maj=9.3km s-min=4.9km az=89.8.
NNC Event type se. Error ellipse: s-maj=33.8km s-min=29.8km az=80.0.
IDC Error ellipse: s-maj=25.3km s-min=14.5km az=9.0.
ISC VI 04 06 29 54.7–.52 34.38N–.05 69.37E–.05 24 4.2b,3.1s 127 0-84
ISCJB VI 04 06 29 53.1–.30 34.45N–.03 69.50E–.04 24 4.2b,3.1s **¶16577383**
BJI VI 04 06 29 53.1 34.72N 69.31E 17 4.7b,4.5b
MOS VI 04 06 29 54.6–.96 34.51N 69.44E 33 4.4b,4.5b
NEIC VI 04 06 29 54.4–1.4 34.45N 69.36E 16–8 4.5b,4.5b
NNC VI 04 06 29 58.4–3.9 34.46N 69.54E 108–46 4.2,3.7b
IDC VI 04 06 30 01.7–3.0 34.64N 69.57E 79–26 4.0,3.8
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.6km az=150.0.
MOS Error ellipse: s-maj=11.1km s-min=5.2km az=84.1.
NEIC Event type fe. Error ellipse: s-maj=10.6km s-min=8.0km az=152.0. Felt [III] at Kabul. Also felt at Bagrami, Charikar and Jabal us Saraj.
NNC Event type se. Error ellipse: s-maj=31.2km s-min=29.5km az=101.0.
IDC Error ellipse: s-maj=19.4km s-min=14.0km az=9.0.
ISC VI 04 12 01 16.2–.44 34.48N–.05 69.42E–.03 24 4.2b,3.2s 155 0-95
BJI VI 04 12 01 09.1 34.45N 69.10E 13 4.5b,4.4b **¶16557032**
IDC VI 04 12 01 12.6–.62 34.53N 69.49E 0 4.3,4.2
NEIC VI 04 12 01 14.8–1.3 34.47N 69.47E 16–8 4.3b,4.2
ISCJB VI 04 12 01 14.3–.30 34.50N–.03 69.59E–.04 24 4.2b,3.2s
MOS VI 04 12 01 15.2–.99 34.55N 69.61E 25 4.4b,3.2s
NNC VI 04 12 01 22.7–3.7 34.64N 69.47E 131–15 4.7,3.8b
ISC Event type fe.
IDC Error ellipse: s-maj=14.9km s-min=14.0km az=36.0.
NEIC Event type fe. Error ellipse: s-maj=8.4km s-min=6.9km az=151.0. Felt [III] at Kabul. Also felt at Bagrami and Charikar.
ISCJB Event type fe. Error ellipse: s-maj=4.7km s-min=3.2km az=143.5.
MOS Error ellipse: s-maj=9.1km s-min=4.8km az=85.4.
NNC Event type se. Error ellipse: s-maj=31.3km s-min=25.5km az=59.0.

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ISC I 01 13 13 02.5–.75 35.06N–.08 72.88E–.09 10 3.6b 27 5-82
ISCJB I 01 13 12 59.6–.56 34.95N–.06 72.92E–.09 10 3.5b **¶16150187**
IDC I 01 13 13 00.8–1.1 35.05N 72.84E 0 3.6,3.6b
NNC I 01 13 13 08.4–11 35.40N 72.20E 0 3.7b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.0km s-min=4.8km az=144.4.
IDC Error ellipse: s-maj=25.9km s-min=22.0km az=71.0.
NNC Event type se. Error ellipse: s-maj=165.8km s-min=74.6km az=103.0.
ISC I 04 22 56 31.1–.39 27.16N–.05 66.45E–.04 8 4.4b,4.0s 198 5-91
ISCJB I 04 22 56 29.4–.19 27.12N–.03 66.41E–.02 8 4.5b,3.9s **¶15905611**
IDC I 04 22 56 29.8–.64 27.10N 66.33E 0 4.2,4.1
MOS I 04 22 56 31.4–1.2 27.13N 66.36E 18 4.5b,4.1
BJI I 04 22 56 31.6 27.20N 66.20E 32 4.8b,4.5b
NEIC I 04 22 56 33.6–2.2 27.11N 66.31E 24–15 4.5b,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.3km s-min=2.5km az=29.4.
IDC Error ellipse: s-maj=16.6km s-min=12.6km az=26.0.
MOS Error ellipse: s-maj=8.7km s-min=5.0km az=107.7.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.2km az=167.0.
ISC I 04 23 05 18.0–.36 27.14N–.05 66.45E–.04 8 4.4b,3.8s 185 5-142
ISCJB I 04 23 05 15.9–.23 27.08N–.03 66.46E–.03 8 4.4b,3.8s **¶15908108**
IDC I 04 23 05 16.3–.54 27.09N 66.38E 0 4.3,4.3L
MOS I 04 23 05 20.9–1.6 27.11N 66.41E 37 4.6b,4.3L
NEIC I 04 23 05 21.4–.35 27.13N 66.38E 35 4.7b,4.3L
BJI I 04 23 05 22.0 27.45N 66.40E 33 5.0b,4.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.2km az=9.2.
IDC Error ellipse: s-maj=13.6km s-min=11.8km az=24.0.
MOS Error ellipse: s-maj=8.4km s-min=4.7km az=106.9.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.8km az=157.0.
ISC I 07 09 47 45.4–.32 27.76N–.04 66.81E–.04 35 4.5b,3.8s 231 5-143
IDC I 07 09 47 40.4–.50 27.81N 66.85E 0 4.4,4.3 **¶15927184**
NEIC I 07 09 47 41.8–2.4 27.80N 66.84E 9–15 4.7b,4.3
ISCJB I 07 09 47 43.4–.17 27.76N–.02 66.85E–.02 33 4.5b,3.7s
MOS I 07 09 47 43.1–1.1 27.89N 66.95E 23 4.6b,3.7s
BJI I 07 09 47 46.1 28.20N 67.01E 30 4.9b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=13.4km s-min=10.9km az=12.0.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.5km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.9km az=3.5.
MOS Error ellipse: s-maj=7.9km s-min=4.8km az=96.5.
ISC I 08 19 36 37.6–3.1 32.2N–.30 69.7E–.30 10 5 11-65
IDC I 08 19 36 36.2–4.7 32.12N 69.67E 0 3.2,3.2b **¶16395257**
ISC Event type ke.
IDC Error ellipse: s-maj=103.8km s-min=32.7km az=136.0.
ISC I 09 19 31 02.9–.89 30.3N–.10 67.7E–.10 14 3.5b 13 11-88
ISCJB I 09 19 31 00.8–.77 30.3N–.10 67.66E–.08 14 3.5b **¶17189788**
IDC I 09 19 31 04.2–3.6 31.04N 66.67E 0 3.6,3.6
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.0km s-min=10.6km az=178.0.
IDC Error ellipse: s-maj=139.9km s-min=23.0km az=135.0.
ISC I 11 12 48 48.2–.97 34.90N–.09 72.7E–.10 10 3.6b 12 5-83
IDC I 11 12 48 45.9–1.2 34.73N 72.85E 0 3.6,3.6b **¶17189917**
ISCJB I 11 12 48 47.4–1.4 35.0N–.10 72.7E–.20 10 3.5b,3.6b
ISC Event type ke.
ISCJB Event type ke.
ISC I 12 11 12 09.1–.97 29.5N–.10 68.1E–.10 24 3.7b 14 11-88
IDC I 12 11 12 06.0–1.2 29.61N 68.24E 0 3.8,3.7 **¶17189989**
ISCJB I 12 11 12 07.2–.89 29.6N–.10 68.2E–.10 24 3.6b,3.2s
ISC Event type ke.
ISCJB Event type ke.
ISC I 21 13 46 30.2–.50 29.34N–.05 69.48E–.05 29 4.0b,2.9s 76 3-88
IDC I 21 13 46 26.4–.65 29.25N 69.31E 0 4.1,4.0L **¶16152019**
ISCJB I 21 13 46 28.1–.34 29.26N–.04 69.50E–.04 29 3.9b,3.0s
NEIC I 21 13 46 29.9–.50 29.31N 69.36E 25 4.1b,3.0s
NNC I 21 13 46 37.3–4.0 29.77N 69.73E 39–33 4.0b,3.0s
ISC Event type se.
IDC Error ellipse: s-maj=16.3km s-min=13.1km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=4.1km az=28.3.
NEIC Event type se. Error ellipse: s-maj=10.3km s-min=8.8km az=160.0.
NNC Event type se. Error ellipse: s-maj=31.7km s-min=23.7km az=126.0.
ISC I 31 19 03 08.7–.71 30.31N–.09 67.61E–.08 17 3.6b 24 11-88
IDC I 31 19 03 05.6–1.2 30.15N 67.61E 0 3.7,3.7L **¶17191428**
ISCJB I 31 19 03 06.6–.58 30.23N–.08 67.54E–.07 17 3.5b,3.7L
ISC Event type ke.
ISCJB Event type ke.
ISC II 01 00 13 36.3–.65 30.21N–.09 67.78E–.09 24 3.8b 24 11-88
IDC II 01 00 13 32.8–.75 30.15N 67.72E 0 3.9,3.8 **¶16328600**
ISCJB II 01 00 13 34.3–.54 30.13N–.08 67.74E–.07 24 3.7b,3.0s
ISC Event type ke.
ISCJB Event type ke.
ISC II 04 18 11 14.6–.85 34.61N–.07 73.2E–.10 21 3.6b 29 5-82
ISCJB II 04 18 11 12.5–.65 34.67N–.05 73.4E–.10 21 3.7b **¶16328689**
NNC II 04 18 11 21.5–1.9 34.86N 73.18E 82–23 3.7,3.3b
IDC II 04 18 11 25.0–6.3 34.77N 73.21E 115–57 3.6,3.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=4.4km az=153.0.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=13.0km az=100.0.
IDC Error ellipse: s-maj=40.3km s-min=23.2km az=28.0.
ISC II 05 06 11 60.0–.80 30.53N–.07 69.82E–.06 19 3.8b 29 4-87

IDC II 05 06 11 56.8–2.7 30.48N 69.91E 0 3.8,3.7 ¶17191719
ISCJB II 05 06 11 58.2–.60 30.56N–.05 69.91E–.06 19 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 00 47 18.5–.95 31.60N–.09 72.36E–.08 35 3.4b 24 4-86
IDC II 06 00 47 14.6–2.6 31.87N 72.03E 0 3.6,3.5 ¶17191767
ISCJB II 06 00 47 16.5–.71 31.72N–.07 72.30E–.08 33 3.4s,3.3b
NDI II 06 00 47 23.4–1.0 31.39N 72.52E 10 3.3L,3.3b
ISC Event type ke.
IDC Error ellipse: s-maj=63.7km s-min=36.6km az=134.0.
ISCJB Event type ke. Error ellipse: s-maj=11.8km s-min=6.9km az=40.0.
NDI Error ellipse: s-maj=9.4km s-min=12.6km az=-1.0.
ISC II 06 14 25 13.6–1.4 34.7N–.10 73.4E–.20 10 19 8-79
ISCJB II 06 14 25 11.7–.87 34.69N–.07 73.6E–.10 10 3.9b ¶16397722
IDC II 06 14 25 11.1–1.8 34.47N 73.22E 0 4.0b,3.7
NNC II 06 14 25 26.2–15 35.73N 74.56E 0 3.8b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.9km s-min=4.8km az=150.8.
IDC Error ellipse: s-maj=48.5km s-min=24.4km az=72.0.
NNC Event type se. Error ellipse: s-maj=187.9km s-min=139.6km az=54.0.
IDC II 14 15 39 20.7–1.3 27.31N 66.37E 0 3.5,3.4
¶17192251
IDC Error ellipse: s-maj=41.8km s-min=25.6km az=146.0.
ISC II 14 15 40 49.9–.95 27.4N–.20 65.8E–.10 25 3.5b 11 8-83
IDC II 14 15 40 46.6–.99 27.41N 65.94E 0 3.7,3.6 ¶17192252
ISCJB II 14 15 40 48.1–.74 27.4N–.10 65.7E–.10 25 3.5b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC II 17 01 56 09.5–.74 35.27N–.08 71.69E–.08 10 3.7b 24 8-81
ISCJB II 17 01 56 08.3–.53 35.30N–.05 71.61E–.07 10 3.6b ¶16301860
IDC II 17 01 56 08.3–1.1 35.31N 71.69E 0 3.8,3.8L
NNC II 17 01 56 15.4–10 35.66N 70.87E 0 3.9b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.8km az=149.5.
IDC Error ellipse: s-maj=22.9km s-min=19.5km az=149.0.
NNC Event type se. Error ellipse: s-maj=106.9km s-min=73.7km az=138.0.
ISC II 25 13 48 34.6–.66 34.91N–.06 73.75E–.08 21 3.5b 34 5-83
IDC II 25 13 48 31.3–1.0 34.97N 73.81E 0 3.6,3.6b ¶16398911
ISCJB II 25 13 48 32.3–.46 34.93N–.04 73.84E–.07 21 3.5b,3.6b
NNC II 25 13 48 38.1–3.8 35.18N 73.52E 0 3.8b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=24.6km s-min=18.9km az=71.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=4.2km az=148.6.
NNC Event type se. Error ellipse: s-maj=30.8km s-min=22.1km az=155.0.
IDC II 25 18 47 04.1–6.0 28.21N 65.46E 0 3.6,3.6
¶17192858
IDC Error ellipse: s-maj=185.6km s-min=29.7km az=141.0.
IDC II 25 23 57 34.6–6.6 35.86N 71.42E 170–53 3.7,3.2b
¶17192870
IDC Error ellipse: s-maj=79.6km s-min=25.5km az=160.0.
ISC II 26 05 33 31.1–.60 31.04N–.06 70.40E–.06 16 3.7b 36 4-82
IDC II 26 05 33 28.9–.90 30.97N 70.18E 0 3.9,3.8 ¶17192886
ISCJB II 26 05 33 29.1–.42 31.04N–.05 70.46E–.05 16 3.7s,3.7b
NDI II 26 05 33 31.2–2.2 31.06N 70.24E 10 3.5L,3.7b
ISC Event type ke.
IDC Error ellipse: s-maj=21.1km s-min=18.3km az=45.0.
ISCJB Event type ke. Error ellipse: s-maj=7.7km s-min=4.4km az=35.1.
NDI Error ellipse: s-maj=15.5km s-min=16.2km az=-1.0.
ISC II 27 04 37 16.9–1.6 34.9N–.10 73.2E–.10 24 3.6b 17 5-83
IDC II 27 04 37 13.3–2.7 34.80N 73.00E 0 4.2,4.2s ¶16399086
NNC II 27 04 37 17.4–4.7 35.16N 73.19E 0 3.7b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=57.4km s-min=27.3km az=133.0.
NNC Event type se. Error ellipse: s-maj=53.2km s-min=35.5km az=33.0.
IDC III 02 13 05 40.2–26 30.38N 70.69E 0 3.9b,3.7
¶17193131
IDC Error ellipse: s-maj=495.4km s-min=67.6km az=163.0.
ISC III 09 07 07 46.4–2.2 34.3N–.20 73.9E–.30 26 3.4b 8 10-81
ISCJB III 09 07 07 45.0–1.7 34.4N–.10 74.0E–.30 26 3.2b ¶17193530
IDC III 09 07 07 49.1–2.0 34.83N 74.03E 0 3.5,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=35.3km s-min=9.8km az=150.0.
IDC Error ellipse: s-maj=61.3km s-min=25.0km az=77.0.
ISC III 18 10 27 11.8–.62 34.88N–.06 73.93E–.07 34 3.9b 49 5-129
IDC III 18 10 27 07.3–.69 34.90N 74.00E 0 4.1,4.0b ¶16479155
ISCJB III 18 10 27 09.6–.41 34.89N–.04 74.18E–.07 34 3.9b,4.0b
NEIC III 18 10 27 13.4–2.0 34.98N 74.00E 42–17 4.4b,4.0b
NNC III 18 10 27 15.2–11 35.24N 73.37E 0 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=15.2km az=62.0.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=4.0km az=156.0.
NEIC Event type se. Error ellipse: s-maj=18.5km s-min=11.1km az=211.0.
NNC Event type se. Error ellipse: s-maj=92.5km s-min=60.4km az=159.0.
ISC III 21 01 07 06.0–.61 30.12N–.06 69.89E–.05 12 3.9b 51 6-88
IDC III 21 01 07 04.4–.78 30.13N 69.85E 0 3.9,3.7 ¶16462032
ISCJB III 21 01 07 04.3–.45 30.20N–.04 69.94E–.04 12 3.8b,3.1s
NNC III 21 01 07 09.9–5.2 30.27N 70.12E 20–68 4.5,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=16.2km az=11.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=3.8km az=135.0.
NNC Event type se. Error ellipse: s-maj=71.1km s-min=27.5km az=142.0.
ISC III 21 01 25 40.5–.58 30.12N–.06 69.89E–.06 12 3.9b 68 6-88
IDC III 21 01 25 38.9–.77 30.13N 69.86E 0 3.9,3.8 ¶16450707
ISCJB III 21 01 25 38.8–.40 30.16N–.03 70.00E–.04 12 3.8b,3.4s
NEIC III 21 01 25 40.5–.44 30.15N 69.87E 10 4.0b,3.4s
NNC III 21 01 25 45.0–4.1 30.23N 69.97E 36–32 4.5,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=17.7km s-min=16.3km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.8km az=135.0.
NEIC Event type se. Error ellipse: s-maj=9.6km s-min=5.8km az=132.0.
NNC Event type se. Error ellipse: s-maj=30.7km s-min=23.5km az=104.0.
ISC IV 02 14 39 27.0–.61 33.79N–.05 72.55E–.07 34 3.8b 60 3-84
IDC IV 02 14 39 22.4–.81 33.89N 72.51E 0 4.0,3.9 ¶17199536
NDI IV 02 14 39 23.1–2.3 33.74N 72.07E 10 3.5L,3.9
ISCJB IV 02 14 39 24.8–.39 33.81N–.03 72.70E–.07 34 3.8b,3.9
NNC IV 02 14 39 31.2–1.2 33.93N 72.64E 77–11 4.4,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=15.4km az=51.0.
NDI Error ellipse: s-maj=15.1km s-min=19.3km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=2.9km az=157.1.
NNC Event type se. Error ellipse: s-maj=14.1km s-min=9.0km az=92.0.
ISC IV 03 22 35 12.3–3.3 31.3N–.20 71.0E–.20 35 11 4-12
NNC IV 03 22 35 15.2–4.6 31.81N 70.37E 0 3.8b,3.6 ¶16713882
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=88.1km s-min=36.1km az=101.0.
ISC IV 06 00 09 02.0–.97 34.8N–.10 73.8E–.10 34 3.7b 21 8-83
IDC IV 06 00 08 56.9–1.8 34.80N 73.85E 0 3.7b,3.6 ¶16455860
ISCJB IV 06 00 08 60.0–.67 34.81N–.08 73.9E–.10 34 3.6b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 11 20 44 34.6–.96 34.60N–.07 73.6E–.10 22 3.4b 24 3-83
IDC IV 11 20 44 30.0–1.2 34.37N 73.85E 0 3.6,3.5b ¶16706529
ISCJB IV 11 20 44 33.4–.84 34.64N–.05 73.8E–.10 22 3.3b,3.5b
NNC IV 11 20 44 46.3–5.8 35.36N 73.31E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=31.6km s-min=20.9km az=77.0.
ISCJB Event type se. Error ellipse: s-maj=16.4km s-min=4.6km az=157.8.
NNC Event type se. Error ellipse: s-maj=76.8km s-min=41.8km az=92.0.
ISC IV 19 00 14 44.6–2.1 31.3N–.10 73.6E–.10 35 10 2-12
ISCJB IV 19 00 14 41.0–1.4 31.23N–.08 73.53E–.09 33 ¶16852942
NDI IV 19 00 14 41.7–1.4 31.36N 73.38E 40–999 3.4L
NNC IV 19 00 14 59.2–7.9 32.73N 74.29E 0 3.8b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.9km s-min=7.9km az=39.6.
NDI Error ellipse: s-maj=10.0km s-min=24.5km az=-1.0.
NNC Event type se. Error ellipse: s-maj=130.6km s-min=60.2km az=84.0.
ISC IV 25 06 37 58.5–1.4 30.5N–.10 69.9E–.10 10 3.3b 7 5-87
IDC IV 25 06 37 57.8–5.0 30.49N 70.13E 0 3.5,3.5b ¶17202021
ISC Event type ke.
IDC Error ellipse: s-maj=132.3km s-min=79.0km az=121.0.
IDC V 02 20 16 53.7–13 29.67N 68.82E 0 3.6s,3.6
¶17202640
IDC Error ellipse: s-maj=476.0km s-min=30.8km az=141.0.
ISC V 13 15 35 38.9–.43 28.32N–.06 66.41E–.04 20 4.3b,3.5s 155 4-90
IDC V 13 15 35 36.0–.81 28.24N 66.37E 0 4.2,4.0L ¶16560052
ISCJB V 13 15 35 37.5–.27 28.35N–.04 66.39E–.03 20 4.3b,3.4s
MOS V 13 15 35 39.7–1.2 28.40N 66.41E 33 4.4b,3.4s
NEIC V 13 15 35 41.2–.25 28.29N 66.34E 35 4.5b,3.4s
ISC Event type se.
IDC Error ellipse: s-maj=18.8km s-min=14.7km az=6.0.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=8.4.
MOS Error ellipse: s-maj=9.4km s-min=6.1km az=97.9.
NEIC Event type se. Error ellipse: s-maj=6.2km s-min=4.4km az=187.0.
ISC V 15 06 48 32.4–.51 34.90N–.05 72.71E–.05 35 4.1b,3.1s 82 1-95
ISCJB V 15 06 48 30.3–.31 34.90N–.03 72.84E–.05 33 4.0b,3.4s ¶17203672
MOS V 15 06 48 30.4–1.3 34.82N 72.75E 33 4.3b,3.4s
NDI V 15 06 48 32.7–2.8 34.94N 72.54E 33 4.5L,3.4s
IDC V 15 06 48 37.9–2.6 35.16N 72.53E 69–22 4.1,3.9
NNC V 15 06 48 39.3–1.6 35.21N 72.77E 90–11 4.9,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=2.8km az=151.5.
MOS Error ellipse: s-maj=16.7km s-min=8.4km az=90.0.
NDI Error ellipse: s-maj=16.4km s-min=17.5km az=-1.0.
IDC Error ellipse: s-maj=18.0km s-min=12.3km az=145.0.
NNC Event type se. Error ellipse: s-maj=13.0km s-min=8.6km az=179.0.
ISC V 15 07 51 02.7–.78 33.06N–.08 73.68E–.09 15 3.7b 36 2-80
NDI V 15 07 50 52.5–2.1 32.24N 71.84E 39–669 3.9L ¶16709927
ISCJB V 15 07 51 01.1–.61 33.15N–.06 73.82E–.09 15 3.6b,3.6s
IDC V 15 07 51 07.9–6.4 33.23N 73.72E 54–58 3.7,3.6
NNC V 15 07 51 14.4–3.8 33.49N 73.72E 90–34 3.5b,3.6
ISC Event type se.
NDI Error ellipse: s-maj=190.9km s-min=541.5km az=-1.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=5.1km az=148.5.
IDC Error ellipse: s-maj=42.7km s-min=16.8km az=38.0.
NNC Event type se. Error ellipse: s-maj=44.1km s-min=27.3km az=94.0.
ISC V 20 18 52 03.4–.81 29.7N–.10 69.88E–.05 12 3.8b 19 5-81
IDC V 20 18 52 01.8–.92 29.85N 69.73E 0 3.9,3.8 ¶17204070
ISC Event type ke.
IDC Error ellipse: s-maj=26.3km s-min=21.5km az=19.0.
ISC V 30 03 45 07.4–.34 32.03N–.04 70.06E–.04 29 4.3b,3.5s 183 3-86
IDC V 30 03 45 03.5–.53 32.10N 69.90E 0 4.3,4.2 ¶16551562
ISCJB V 30 03 45 06.3–.21 32.17N–.02 70.15E–.03 29 4.2b,3.5s
MOS V 30 03 45 08.4–1.3 32.24N 70.17E 36 4.4b,3.5s
NNC V 30 03 45 09.9–2.5 32.15N 70.26E 53–20 4.5,4.2b
NEIC V 30 03 45 09.1–1.1 32.16N 70.01E 40–10 4.5b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=13.0km s-min=12.5km az=41.0.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.4km az=154.8.
MOS Error ellipse: s-maj=9.1km s-min=5.3km az=91.0.
NNC Event type se. Error ellipse: s-maj=20.1km s-min=17.5km az=75.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=7.2km az=165.0.
ISC V 30 07 37 35.2–.76 29.7N–.10 69.38E–.07 10 3.8b,3.2s 18 6-121
ISCJB V 30 07 37 33.4–.77 29.7N–.10 69.5E–.10 10 3.8b,3.1s ¶17204746
IDC V 30 07 37 33.8–.87 29.69N 69.43E 0 4.0,3.9
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.9km s-min=12.2km az=152.4.
IDC Error ellipse: s-maj=20.3km s-min=19.3km az=108.0.
ISC VI 02 19 00 44.7–1.0 29.3N–.20 65.7E–.20 35 3.4b 8 9-84
IDC VI 02 19 00 39.8–1.3 29.28N 65.92E 0 3.6,3.4 ¶17205017
ISCJB VI 02 19 00 42.5–.78 29.2N–.10 65.6E–.20 33 3.3b,2.7s
ISC Event type ke.
ISCJB Event type ke.
ISC VI 03 02 28 30.2–.42 34.77N–.05 72.96E–.06 24 4.1b 107 3-83
NDI VI 03 02 28 21.8–2.6 34.87N 72.23E 15–363 4.2b,4.0L ¶16646362
IDC VI 03 02 28 26.4–.63 34.71N 72.95E 0 4.2,4.1
ISCJB VI 03 02 28 28.5–.32 34.76N–.03 73.02E–.05 24 4.0b,4.1
MOS VI 03 02 28 30.9–1.0 34.74N 72.93E 43 4.4b,4.1
NEIC VI 03 02 28 33.4–1.3 34.76N 72.90E 50–11 4.2b,4.1
NNC VI 03 02 28 36.0–2.0 34.90N 73.06E 85–21 4.3,4.0b
ISC Event type se.
NDI Error ellipse: s-maj=292.0km s-min=286.4km az=-1.0.
IDC Error ellipse: s-maj=15.1km s-min=13.8km az=39.0.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.3km az=154.6.
MOS Error ellipse: s-maj=12.1km s-min=5.6km az=93.5.
NEIC Event type se. Error ellipse: s-maj=10.7km s-min=6.9km az=207.0.
NNC Event type se. Error ellipse: s-maj=15.5km s-min=11.9km az=169.0.
ISC VI 03 04 55 54.7–.49 28.91N–.07 66.76E–.05 35 4.0b,3.4s 87 6-89
IDC VI 03 04 55 49.9–.70 28.88N 66.63E 0 4.1,4.0 ¶16646368
ISCJB VI 03 04 55 51.6–.27 28.73N–.04 66.76E–.03 33 4.0b,3.5s
NEIC VI 03 04 55 55.0–.44 28.93N 66.62E 35 4.3b,3.5s
MOS VI 03 04 55 55.0–1.2 29.01N 66.66E 46 4.6b,3.5s
ISC Event type se.
IDC Error ellipse: s-maj=16.6km s-min=13.6km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.5km az=166.9.
NEIC Event type se. Error ellipse: s-maj=9.7km s-min=7.1km az=137.0.
MOS Error ellipse: s-maj=13.4km s-min=7.1km az=84.0.
ISC VI 03 05 03 02.0–.55 28.65N–.08 66.76E–.05 35 3.8b 47 6-89
IDC VI 03 05 02 58.1–.77 28.79N 66.66E 0 4.1L,4.0 ¶17205059
ISCJB VI 03 05 02 59.2–.33 28.58N–.06 66.79E–.03 33 3.8s,3.7b
ISC Event type ke.
ISCJB Event type ke.
ISC VI 05 12 48 22.2–.66 35.19N–.06 71.77E–.07 35 3.7b 36 4-83
ISCJB VI 05 12 48 19.8–.41 35.10N–.04 71.82E–.05 33 3.9b ¶16856386
IDC VI 05 12 48 25.2–3.1 35.28N 71.80E 63–27 3.9,3.7
NNC VI 05 12 48 26.0–4.1 35.24N 71.65E 130–17 3.9,3.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.2km az=148.6.
IDC Error ellipse: s-maj=18.3km s-min=16.1km az=179.0.
NNC Event type se. Error ellipse: s-maj=32.0km s-min=23.1km az=178.0.
ISC VI 06 17 28 42.9–1.0 34.72N–.09 71.2E–.10 50 3.5b 18 4-83
ISCJB VI 06 17 28 41.1–.82 34.73N–.06 71.2E–.10 50 3.5b ¶17205423
IDC VI 06 17 28 46.6–6.5 34.91N 71.17E 80–58 3.5,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.6km s-min=6.7km az=153.2.
IDC Error ellipse: s-maj=40.3km s-min=22.3km az=12.0.
ISC VI 07 09 08 29.0–.36 32.25N–.03 72.28E–.04 44–3 4.4b,3.2s 277 0-93
ISCJB VI 07 09 08 24.6–.88 32.31N–.02 72.35E–.03 18–6 4.3b,3.4s ¶16577417
NEIC VI 07 09 08 29.7–1.1 32.30N 72.35E 48–9 4.6b,3.4s
IDC VI 07 09 08 29.2–.47 32.27N 72.24E 43–3 4.3L,4.2
MOS VI 07 09 08 29.6–.87 32.45N 72.41E 55 4.6b,4.2
NDI VI 07 09 08 30.1–2.6 31.89N 72.33E 10–40 4.6b,4.5L
BJI VI 07 09 08 31.5 32.80N 71.80E 40 4.7L,4.4b
NNC VI 07 09 08 36.4–2.0 32.78N 72.31E 73–16 4.8,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.5km az=145.3.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=6.7km az=162.0.
IDC Error ellipse: s-maj=12.7km s-min=9.2km az=18.0.
MOS Error ellipse: s-maj=8.0km s-min=4.2km az=107.4.
NDI Error ellipse: s-maj=24.4km s-min=35.1km az=-1.0.
NNC Event type se. Error ellipse: s-maj=15.1km s-min=13.0km az=159.0.
ISC VI 20 02 32 44.1–2.3 28.6N–.30 69.5E–.20 35 3.7b 8 21-89
IDC VI 20 02 32 38.5–2.3 28.47N 69.52E 0 3.7s,3.7 ¶17206565

ISCJB	VI	20 02 32 41.8–2.1	28.5N–.30	69.6E–.30	33	3.7s,3.6b		
ISC		Event type ke.						
ISCJB		Event type ke.						

(711) Southwestern Kashmir.

ISC	**I**	**24 16 36 11.8–1.7**	**34.01N–.07**	**74.8E–.20**	**10**		**17**	**0-27**
NDI	I	24 16 36 09.3–.93	34.27N	74.71E	10	2.9L		¶17190905
ISCJB	I	24 16 36 10.3–.81	33.97N–.05	74.8E–.10	10	3.3b		
IDC	I	24 16 36 12.8–2.7	34.16N	74.98E	0	3.4,3.3		
ISC		Event type ke.						
NDI		Error ellipse: s-maj=12.0km s-min=17.1km az=-1.0.						
ISCJB		Event type ke. Error ellipse: s-maj=16.8km s-min=5.5km az=162.7.						
IDC		Error ellipse: s-maj=63.8km s-min=25.2km az=60.0.						
ISC	**II**	**27 17 59 19.0–.69**	**34.60N–.08**	**74.26E–.10**	**35**	**3.4b**	**30**	**4-83**
IDC	II	27 17 59 13.4–.87	34.39N	73.98E	0	3.7,3.5		¶16399121
ISCJB	II	27 17 59 16.6–.50	34.56N–.06	74.30E–.09	33	3.4b,3.5		
NNC	II	27 17 59 22.0–6.3	34.97N	74.06E	0	3.5b,3.2		
ISC		Event type se.						
IDC		Error ellipse: s-maj=31.1km s-min=17.1km az=54.0.						
ISCJB		Event type se. Error ellipse: s-maj=12.8km s-min=4.3km az=144.0.						
NNC		Event type se. Error ellipse: s-maj=51.4km s-min=33.2km az=168.0.						
ISC	**V**	**12 02 00 27.0–.87**	**33.18N–.07**	**74.01E–.09**	**10**	**3.7b**	**20**	**3-78**
ISCJB	V	12 02 00 25.0–.72	33.14N–.07	73.9E–.10	10	3.7b		¶17203449
IDC	V	12 02 00 25.1–1.3	33.06N	73.70E	0	3.7,3.6		
ISC		Event type ke.						
ISCJB		Event type ke. Error ellipse: s-maj=15.5km s-min=6.4km az=146.1.						
IDC		Error ellipse: s-maj=34.8km s-min=25.6km az=71.0.						

SEISMIC REGION 48.
Hindu Kush and Pamir.

(713) Central Kazakhstan.

ISC	**I**	**05 05 27 19.0–2.4**	**42.29N–.06**	**69.42E–.10**	**7–11**		**20**	**0-10**
NNC	I	05 05 27 16.6–4.0	42.21N	69.25E	0	3.2b,2.9		¶16414740
SOME	I	05 05 27 18.3	42.22N	69.30E	5	3.2b,2.9		
KRNET	I	05 05 27 21.1–.10	42.07N	69.34E		2.7b,2.9		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=24.9km s-min=18.3km az=64.0.						
ISC	**I**	**10 10 58 12.8–.30**	**43.80N–.02**	**70.53E–.02**	**10**	**4.0s,3.7b**	**166**	**1-74**
BJI	I	10 10 58 06.8	44.30N	69.74E	10	4.5b,4.4L		¶601091726
KRNET	I	10 10 58 11.6–.10	43.68N	70.10E		4.7b,4.4L		
IDC	I	10 10 58 11.7–.73	43.72N	70.39E	0	4.0,4.0		
NNC	I	10 10 58 12.2–.46	43.77N	70.45E	4–6	4.5b,4.2		
MOS	I	10 10 58 12.5–1.4	43.87N	70.34E	18	4.0b,4.2		
NEIC	I	10 10 58 13.3–.42	43.82N	70.36E	10	4.2b,4.2		
SOME	I	10 10 58 14.5	43.73N	70.48E	10	3.1s,4.2		
ISC		Event type se.						
IDC		Error ellipse: s-maj=11.4km s-min=6.9km az=23.0.						
NNC		Event type se. Error ellipse: s-maj=4.7km s-min=2.9km az=0.0.						
MOS		Error ellipse: s-maj=8.3km s-min=6.0km az=97.4.						
NEIC		Event type se. Error ellipse: s-maj=7.8km s-min=5.9km az=212.0.						
ISC	**I**	**10 11 01 12.1–1.0**	**43.62N–.04**	**70.43E–.04**	**10**		**79**	**0-7**
KRNET	I	10 11 01 07.0–.10	43.84N	70.21E		4.2b		¶16416150
SOME	I	10 11 01 08.5	43.90N	70.42E	15	3.4s		
NNC	I	10 11 01 08.5–.51	43.67N	70.43E	13–21	4.6b,4.0		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=11.0km s-min=1.7km az=176.0.						
ISC	**I**	**19 14 41 34.6–1.2**	**42.34N–.05**	**70.83E–.02**	**4–13**		**36**	**1-5**
NNC	I	19 14 41 33.3–5.4	42.30N	70.66E	0	2.6b,2.5		¶16449303
SOME	I	19 14 41 35.2	42.38N	70.77E	5	2.6b,2.5		
KRNET	I	19 14 41 35.0–.10	42.32N	70.81E		2.4b,2.5		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=39.9km s-min=16.0km az=34.0.						
ISC	**I**	**26 04 18 55.1–1.8**	**42.15N–.06**	**69.28E–.05**	**11–10**	**3.9s,3.7b**	**64**	**0-95**
IDC	I	26 04 18 53.7–1.0	42.17N	69.35E	0	4.1,4.0s		¶16396839
NNC	I	26 04 18 54.5–1.1	42.18N	69.08E	8–8	4.0b,3.8		
SOME	I	26 04 18 55.9	42.18N	69.28E	0	2.6s,3.8		
ISC		Event type se.						
IDC		Error ellipse: s-maj=17.3km s-min=10.8km az=173.0.						
NNC		Event type se. Error ellipse: s-maj=6.4km s-min=5.6km az=24.0.						
IDC	**I**	**28 01 41 11.1–431**	**46.80N**	**65.23E**	**0**			**¶17191163**
IDC		Error ellipse: s-maj=181.9km s-min=137.0km az=162.0.						
KRNET	**III**	**12 13 19 24.4–.10**	**43.32N**	**74.89E**	**14**	**1.5b**		**¶601092191**
ISC	**III**	**17 13 14 02.1–1.1**	**43.23N–.04**	**74.75E–.02**	**6–10**		**47**	**0-3**
KNET	III	17 13 14 01.7–.28	43.25N	74.76E	5–8	1.7L		¶16630658
KRNET	III	17 13 14 01.3–.10	43.25N	74.75E	14	2.5b		
NNC	III	17 13 14 02.7–2.1	43.20N	74.77E	0	2.5b,2.2		
ISC		Event type se.						
KNET		Error ellipse: s-maj=2.4km s-min=1.3km az=56.0.						
NNC		Event type se. Error ellipse: s-maj=15.4km s-min=6.5km az=161.0.						
ISC	**III**	**18 09 36 27.3–.77**	**43.05N–.02**	**74.87E–.01**	**14–5**	**4.2b,3.6s**	**236**	**0-123**
IDC	III	18 09 36 24.9–.65	43.01N	74.99E	0	4.2,4.1		¶16339126
ISCJB	III	18 09 36 25.3–.42	43.16N–.02	74.83E–.02	5–3	4.0b,3.6s		
BJI	III	18 09 36 25.8	42.96N	74.74E	18	4.6b,4.5L		
NNC	III	18 09 36 25.8–.34	43.06N	74.89E	0	4.8b,4.5		
KNET	III	18 09 36 26.1–.30	42.99N	74.93E	18–2	4.5L,4.5		
KRNET	III	18 09 36 27.1–.10	43.00N	74.92E	20	5.2b,4.5		
SOME	III	18 09 36 27.2	43.15N	74.83E	10	3.4s,4.5		
MOS	III	18 09 36 27.5–1.7	43.12N	74.83E	28	4.4b,4.5		
NEIC	III	18 09 36 28.9–.68	43.11N	74.77E	21–5	4.3b,4.1W		
ISC		Event type fe.						
IDC		Error ellipse: s-maj=14.8km s-min=6.4km az=131.0.						
ISCJB		Event type fe. Error ellipse: s-maj=3.0km s-min=1.9km az=162.2.						
NNC		Event type se. Error ellipse: s-maj=3.2km s-min=1.2km az=160.0.						
KNET		Error ellipse: s-maj=2.5km s-min=1.7km az=11.0.						
MOS		Event type fe. Error ellipse: s-maj=7.7km s-min=5.8km az=71.6. Felt (IV) at Bishkek; (II-III) at Almaty. Moment Tensor Solution.						
NEIC		Event type fe. Error ellipse: s-maj=9.8km s-min=6.5km az=146.0. Felt [III] at Bishkek, Kyrgyzstan. Also felt at Tokmak. Felt [II] at Almaty, Kazakhstan. Moment Tensor Solution. s6 Moment tensor: Scale 10^{15}Nm; M_{rr}0.55 $M_{\theta\theta}$-1.50 $M_{\phi\phi}$0.94 $M_{r\theta}$-0.04 $M_{\theta\phi}$-0.74 $M_{\phi r}$0.83 Best double couple: NP1:ϕ_s294.00000°,δ62.00000°,λ157.00000°. NP2:ϕ_s35.00000° ,δ70.00000°,λ30.00000°. Principal axes: T 1.7200,Plg35.0000°,Azm257.0000° ; N 0.0000,Plg54.0000°,Azm66.0000°; P -1.7200,Plg5.0000°,Azm163.0000° $M_0$1.70000×10^{15}						
ISC	**III**	**20 08 39 35.9–.99**	**43.31N–.03**	**74.83E–.02**	**16–8**		**87**	**0-5**
KNET	III	20 08 39 36.5–.54	43.26N	74.86E	19–2	2.4L		¶16633163
NNC	III	20 08 39 37.4–.67	43.22N	74.88E	0	3.4b,3.0		
SOME	III	20 08 39 37.5	43.28N	74.85E	10	3.4b,3.0		
KRNET	III	20 08 39 37.0–.10	43.28N	74.85E	18	3.0b,3.0		
ISC		Event type se.						
KNET		Error ellipse: s-maj=4.1km s-min=2.1km az=2.0.						
NNC		Event type se. Error ellipse: s-maj=5.2km s-min=2.1km az=163.0.						
ISC	**III**	**22 07 12 03.3–1.3**	**43.61N–.04**	**74.51E–.03**	**9–10**		**60**	**0-3**
SOME	III	22 07 12 04.5	43.62N	74.55E	15			¶16647776
NNC	III	22 07 12 04.4–.87	43.57N	74.57E	0	3.2b,2.8		
KRNET	III	22 07 12 04.8–.10	43.57N	74.57E	21	2.8b,2.8		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=5.6km s-min=3.3km az=166.0.						
ISC	**III**	**23 20 19 44.1–.74**	**43.01N–.02**	**74.91E–.01**	**17–5**		**131**	**0-31**
IDC	III	23 20 19 42.6–.75	43.05N	74.91E	0	3.6,3.6		¶16480507
KRNET	III	23 20 19 43.9–.10	42.99N	74.92E	19	4.1b,3.6		
KNET	III	23 20 19 43.2–.46	42.99N	74.91E	18–2	3.5L,3.6		
ISCJB	III	23 20 19 43.3–.45	43.04N–.02	74.89E–.02	2–3	3.3b,3.6		
NNC	III	23 20 19 43.2–.37	43.03N	74.91E	0	4.1b,3.9		
SOME	III	23 20 19 44.0	43.03N	74.92E	10	4.1b,3.9		
ISC		Event type se.						
IDC		Error ellipse: s-maj=13.0km s-min=5.6km az=123.0.						
KNET		Error ellipse: s-maj=3.9km s-min=2.2km az=178.0.						
ISCJB		Event type se. Error ellipse: s-maj=3.8km s-min=2.0km az=157.2.						
NNC		Event type se. Error ellipse: s-maj=3.7km s-min=1.2km az=161.0.						
ISC	**IV**	**16 02 06 42.5–2.7**	**42.2N–.20**	**67.2E–.10**	**35**		**10**	**2-10**
NNC	IV	16 02 06 40.6–5.0	42.49N	67.42E	0	3.5b,3.1		¶16852818
SOME	IV	16 02 06 43.7	42.17N	67.75E	0	3.5b,3.1		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=64.9km s-min=15.9km az=17.0.						
ISC	**V**	**02 07 41 53.3–.56**	**41.94N–.06**	**65.87E–.04**	**10**	**3.9b**	**68**	**3-91**
IDC	V	02 07 41 50.8–.94	41.56N	65.69E	0	3.9,3.8		¶16708572
ISCJB	V	02 07 41 52.2–.49	42.09N–.04	65.85E–.04	10	4.6s,3.8b		
NEIC	V	02 07 41 53.3–.68	41.86N	65.86E	10	4.1b,3.8b		
NNC	V	02 07 41 56.5–1.9	42.11N	65.95E	28–12	4.1b,3.6		
SOME	V	02 07 42 02.9	42.12N	66.47E	10	4.1b,3.6		
ISC		Event type se.						
IDC		Error ellipse: s-maj=15.2km s-min=10.3km az=20.0.						
ISCJB		Event type se. Error ellipse: s-maj=6.5km s-min=4.0km az=10.1.						
NEIC		Event type se. Error ellipse: s-maj=13.5km s-min=8.7km az=189.0.						
NNC		Event type se. Error ellipse: s-maj=13.9km s-min=6.2km az=36.0.						
ISC	**V**	**31 07 27 16.5–.99**	**43.24N–.04**	**74.71E–.02**	**11–8**		**45**	**0-3**
NNC	V	31 07 27 15.5–8.1	42.26N	75.21E	0	2.6b,1.9		¶17061057
SOME	V	31 07 27 15.5	43.18N	74.62E	0	2.6b,1.9		
KRNET	V	31 07 27 16.3–.10	43.24N	74.74E	13	1.7b,1.9		
ISC		Event type ke.						
NNC		Error ellipse: s-maj=60.4km s-min=20.7km az=156.0.						
ISC	**VI**	**16 10 57 24.0–.40**	**43.16N–.04**	**66.96E–.03**	**10**	**4.0b,3.1s**	**135**	**2-88**
ISCJB	VI	16 10 57 21.5–.28	43.17N–.03	66.76E–.03	10	3.9b,3.5s		¶16628210
NNC	VI	16 10 57 22.0–.86	43.11N	66.79E	0	4.7b,4.4		
IDC	VI	16 10 57 23.6–.66	43.03N	66.98E	0	4.2,4.2L		
BJI	VI	16 10 57 23.3	43.25N	67.05E	6	4.6b,4.4b		
SOME	VI	16 10 57 24.2	43.22N	67.03E	0	3.9s,4.4b		
MOS	VI	16 10 57 25.4–1.5	43.21N	66.98E	27	4.2b,4.4b		
NEIC	VI	16 10 57 25.1–.42	43.16N	67.00E	10	4.7b,4.4b		
ISC		Event type se.						
ISCJB		Event type se. Error ellipse: s-maj=4.2km s-min=3.1km az=33.3.						
NNC		Event type se. Error ellipse: s-maj=9.0km s-min=6.2km az=66.0.						
IDC		Error ellipse: s-maj=11.6km s-min=8.2km az=11.0.						
MOS		Error ellipse: s-maj=7.2km s-min=6.0km az=66.6.						
NEIC		Event type se. Error ellipse: s-maj=8.0km s-min=5.8km az=182.0.						
ISC	**VI**	**19 19 43 39.7–1.2**	**42.44N–.05**	**70.68E–.03**	**23–16**		**31**	**1-4**
NNC	VI	19 19 43 39.4–2.8	42.40N	70.59E	21–20	2.8b,2.3		¶17237537
SOME	VI	19 19 43 40.7	42.38N	70.67E	10	2.8b,2.3		
KRNET	VI	19 19 43 41.1–.10	42.43N	70.86E	20	2.3b,2.3		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=16.7km s-min=9.8km az=14.0.						
ISC	**VI**	**22 09 38 33.8–1.1**	**42.12N–.04**	**70.33E–.03**	**8–9**		**42**	**0-10**
NNC	VI	22 09 38 33.1–.45	42.12N	70.28E	0	3.5b,3.3		¶17242778
SOME	VI	22 09 38 33.1	42.15N	70.33E	0	3.5b,3.3		
ISCJB	VI	22 09 38 34.8–.69	42.13N–.03	70.26E–.04	12–5	3.5b,3.3		
KRNET	VI	22 09 38 35.0–.10	42.05N	70.40E		3.0b,3.3		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=4.7km s-min=3.3km az=109.0.						
ISCJB		Event type se. Error ellipse: s-maj=5.0km s-min=4.5km az=24.7.						
ISC	**VI**	**24 00 18 46.1–1.6**	**43.38N–.04**	**69.69E–.05**	**6–10**		**61**	**1-10**
KRNET	VI	24 00 18 46.8–.10	43.61N	69.77E		3.2b		¶17266125
NNC	VI	24 00 18 46.2–.72	43.40N	69.58E	5–8	3.7b,3.4		
SOME	VI	24 00 18 47.5	43.30N	69.60E	0	3.7b,3.4		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=9.5km s-min=5.1km az=14.0.						

(714) Southeastern Uzbekistan.

NNC	**II**	**20 23 48 46.1–.65**	**39.51N**	**67.69E**	**20–4**	**3.8b,3.4**		**¶16531981**
NNC		Event type se. Error ellipse: s-maj=5.3km s-min=1.9km az=74.0.						
ISC	**VI**	**26 06 27 51.3–3.5**	**40.69N–.08**	**68.6E–.20**	**35**		**16**	**2-5**
KRNET	VI	26 06 27 51.8–.10	41.05N	69.55E		2.4b		¶17267932
NNC	VI	26 06 27 53.2–2.0	41.04N	69.54E	0	2.8b,2.4		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=29.0km s-min=13.3km az=113.0.						

(715) Tajikistan.

ISC	**I**	**02 15 08 21.5–1.3**	**38.02N–.09**	**72.5E–.10**	**200**		**25**	**4-17**
NNC	I	02 15 08 28.9–3.5	38.39N	72.51E	184–47	3.3,2.4b		¶16328265
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=36.2km s-min=20.8km az=17.0.						
ISC	**I**	**05 15 46 25.0–1.0**	**39.83N–.07**	**70.34E–.04**	**16**	**3.8b**	**60**	**0-87**
IDC	I	05 15 46 20.4–.91	39.56N	70.41E	0	3.7,3.6		¶601091684
NNC	I	05 15 46 22.9–2.7	39.80N	70.18E	0	4.1b,3.9		
KRNET	I	05 15 46 23.3–.10	39.61N	70.74E		4.0b,3.9		
ISC		Event type se.						
IDC		Error ellipse: s-maj=15.7km s-min=11.8km az=150.0.						
NNC		Event type se. Error ellipse: s-maj=24.3km s-min=12.2km az=0.0.						
NNC	**I**	**06 19 04 43.5–1.9**	**38.48N**	**68.88E**	**0**	**3.7b,3.3**		**¶16414812**
NNC		Event type se. Error ellipse: s-maj=15.2km s-min=11.7km az=166.0.						
NNC	**I**	**11 20 21 32.5–1.8**	**38.02N**	**69.70E**	**13–6**	**3.7b,3.3**		**¶16425091**
NNC		Event type se. Error ellipse: s-maj=13.0km s-min=7.3km az=15.0.						
ISC	**I**	**12 07 21 53.7–1.8**	**39.2N–.20**	**69.61E–.10**	**10**		**16**	**4-18**
NNC	I	12 07 21 45.1–4.7	38.59N	69.24E	0	4.1b,3.8		¶16395584
IDC	I	12 07 21 46.6–3.6	38.63N	70.17E	0	3.6,3.6		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=44.4km s-min=26.7km az=179.0.						
IDC		Error ellipse: s-maj=51.0km s-min=19.5km az=169.0.						
ISC	**I**	**12 13 52 19.8–2.1**	**38.4N–.10**	**72.93E–.10**	**150**	**3.6b**	**27**	**4-67**
IDC	I	12 13 52 16.8–4.9	38.15N	73.12E	145–42	3.8,3.5b		¶16395611
NNC	I	12 13 52 22.2–4.0	38.62N	72.88E	187–61	3.4,2.5b		
ISC		Event type se.						
IDC		Error ellipse: s-maj=49.1km s-min=39.2km az=128.0.						
NNC		Event type se. Error ellipse: s-maj=46.6km s-min=23.1km az=11.0.						
ISC	**I**	**15 09 14 28.0–2.0**	**40.94N–.08**	**70.90E–.10**	**5–20**		**16**	**1-3**
SOME	I	15 09 14 24.7	43.97N	70.18E	5			¶601091773
KRNET	I	15 09 14 28.2–.10	40.95N	70.76E	30	2.0b		
ISC		Event type ke.						
ISC	**I**	**17 01 26 31.7–.92**	**38.80N–.09**	**69.00E–.06**	**10**	**3.5b**	**44**	**4-85**
ISCJB	I	17 01 26 30.2–.76	38.93N–.07	68.83E–.05	10	3.4b		¶16396060
IDC	I	17 01 26 30.6–.83	38.50N	69.23E	19–4	3.6,3.5		
NNC	I	17 01 26 32.4–2.4	38.93N	69.06E	0	4.1b,3.7		
ISC		Event type se.						
ISCJB		Event type se. Error ellipse: s-maj=10.4km s-min=4.9km az=163.0.						
IDC		Error ellipse: s-maj=16.9km s-min=12.0km az=154.0.						
NNC		Event type se. Error ellipse: s-maj=21.4km s-min=12.1km az=175.0.						
ISC	**I**	**17 03 08 23.9–1.9**	**37.5N–.10**	**72.3E–.10**	**150**	**3.1b**	**22**	**5-80**
IDC	I	17 03 08 21.1–5.5	37.05N	72.42E	158–38	3.5,3.2b		¶16396069
NNC	I	17 03 08 32.6–4.7	38.12N	72.19E	226–73	3.2,2.0b		
ISC		Event type se.						
IDC		Error ellipse: s-maj=74.6km s-min=32.3km az=141.0.						
NNC		Event type se. Error ellipse: s-maj=58.5km s-min=34.4km az=29.0.						
ISC	**I**	**19 21 34 22.7–3.4**	**39.0N–.20**	**72.11E–.07**	**10**		**24**	**1-5**
KRNET	I	19 21 34 23.1–.10	38.94N	72.06E		3.2b		¶16449309
NNC	I	19 21 34 25.8–3.0	39.25N	72.16E	0	3.7b,3.3		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=21.1km s-min=17.8km az=9.0.						
ISC	**I**	**20 08 40 17.9–1.6**	**39.87N–.08**	**71.20E–.04**	**1–8**		**42**	**0-14**
SOME	I	20 08 40 17.5	39.77N	71.18E	10			¶16449321
KRNET	I	20 08 40 17.1–.10	39.83N	71.15E		3.3b		
NNC	I	20 08 40 24.2–1.5	40.06N	71.03E	8–5	3.6b,3.1		
ISC		Event type se.						
NNC		Event type se. Error ellipse: s-maj=11.1km s-min=5.8km az=2.0.						
ISC	**I**	**20 08 57 07.4–.76**	**37.36N–.06**	**72.15E–.09**	**130**	**3.6b**	**46**	**5-80**
ISCJB	I	20 08 57 06.7–.52	37.29N–.04	72.07E–.08	130	3.4b		¶16151913
IDC	I	20 08 57 07.8–5.6	37.36N	72.15E	119–41	3.7,3.4		
NNC	I	20 08 57 15.1–1.8	37.89N	71.92E	155–22	4.0,3.2b		

ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=4.8km az=155.0.
IDC Error ellipse: s-maj=50.1km s-min=33.9km az=153.0.
NNC Event type se. Error ellipse: s-maj=16.3km s-min=10.9km az=16.0.
ISC I 24 02 45 30.5–.23 38.40N–.02 72.85E–.02 102–1 6.0b 2163 2-152
BJI I 24 02 45 26.6 38.40N 72.70E 90 5.7b,5.7s **¶15959504**
SOME I 24 02 45 26.5 39.10N 72.70E 20 5.5s,5.7s
ISCJB I 24 02 45 28.0–.22 38.40N–.01 72.82E–.01 89–1 5.9b,5.7s
KRNET I 24 02 45 27.8–.10 38.63N 72.81E 6.6b,5.7s
IDC I 24 02 45 29.4–.95 38.32N 72.84E 97–8 5.7,5.4
NNC I 24 02 45 29.8–1.9 38.50N 72.58E 154–26 6.2,5.8b
MOS I 24 02 45 29.8–.89 38.49N 72.85E 108 6.2b,5.4s
NEIC I 24 02 45 30.0–.00 38.46N 72.75E 110 6.2b,5.4s
NEIC I 24 02 45 31.5–.10 38.41N 72.79E 110 6.0W,6.0W
GCMT I 24 02 45 31.5–.10 38.50N 72.78E 119–0 6.1W,6.0W
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=1.9km s-min=1.5km az=176.0.
IDC Error ellipse: s-maj=5.6km s-min=4.9km az=2.0.
NNC Event type se. Error ellipse: s-maj=19.2km s-min=11.3km az=170.0.
MOS Error ellipse: s-maj=4.4km s-min=3.1km az=117.7.
NEIC Event type se. Moment Tensor Solution. Best double couple: NP1:ϕ_s26.00000°,δ82.00000°,λ-53.00000°. NP2:ϕ_s126.00000°,δ37.00000°,λ-167.00000°. Principal axes: T 1.1600,Plg28.0000°,Azm87.0000°; N 0.4500,Plg37.0000°,Azm200.0000°; P -1.6000,Plg41.0000°,Azm330.0000°
NEIC Event type fe. Error ellipse: s-maj=3.0km s-min=2.1km az=185.0. Felt [II] at Dushanbe. Also felt at Istaravshan and Khujand. Felt [III] at Tashkent, Uzbekistan. Felt [III] at Islamabad, Pakistan. Also felt at Abbottabad, Lahore and Peshawar. Felt [II] at Delhi, India. Also felt at Kargil, Ludhiana, Noida and Srinagar. Felt at Kunduz, Afghanistan; Kashi, China; Shymkent, Kazakhstan; Osh, Kyrgyzstan. Depth from synthetics of broadband displacement seismograms. Moment Tensor Solution. Best double couple: NP1:ϕ_s14.00000°,δ74.00000°,λ-63.00000°. NP2:ϕ_s132.00000°,δ31.00000°,λ-149.00000°. Principal axes: T 0.9800,Plg25.0000°,Azm84.0000°; N 0.3900,Plg26.0000°,Azm187.0000°; P -1.3700,Plg53.0000°,Azm317.0000° Moment Tensor Solution. Broadband fault plane solution: P waves. NP1:ϕ_s195.00000°,δ15.00000°,λ-90.00000°. NP2:ϕ_s15.00000°,δ75.00000°,λ-90.00000°. Principal axes: T Plg30.0000°,Azm105.0000°; N Plg0.0000°,Azm0.0000°; P Plg60.0000°,Azm285.0000°
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s129,c302; s140,c437;Duration: 2s6 Moment tensor: Scale 10^{18}Nm; M_{rr}-0.27±.01 $M_{\theta\theta}$-0.70±.01; $M_{\phi\phi}$0.96±.01; $M_{r\theta}$-0.89±.01; $M_{\theta\phi}$-0.56±.01; $M_{\phi r}$-0.79±.01; Best double couple: NP1: ϕ_s27.00000°,δ81.00000°,λ-47.00000°. NP2:ϕ_s126.00000°,δ44.00000°,λ-167.00000°. Principal axes: T 1.3610,Plg24.0000°,Azm85.0000°; N 0.3670,Plg43.0000°,Azm199.0000°; P -1.7280,Plg38.0000°,Azm335.0000° $M_0$1.54500×10^{18}
NNC I 27 07 56 48.2–.83 38.69N 69.33E 0 3.7b,3.3
¶16464726
NNC Event type se. Error ellipse: s-maj=6.5km s-min=5.2km az=163.0.
ISC I 27 09 16 00.6–1.7 38.7N–.10 69.87E–.08 27 3.8b 26 4-79
IDC I 27 09 15 52.0–2.4 38.13N 70.01E 0 3.8b,3.7 **¶16396951**
NNC I 27 09 16 02.5–1.3 39.06N 69.86E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=39.7km s-min=19.2km az=153.0.
NNC Event type se. Error ellipse: s-maj=9.9km s-min=7.2km az=175.0.
ISC I 27 10 31 43.4–1.8 39.99N–.09 71.44E–.05 1–16 20 0-4
NNC I 27 10 31 43.8–6.4 39.85N 72.31E 0 3.3b,2.9 **¶16464738**
KRNET I 27 10 31 47.7–.10 40.28N 70.74E 2.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=46.4km s-min=26.8km az=172.0.
ISC I 28 11 55 01.8–3.5 40.9N–.10 69.71E–.10 13–16 16 1-4
KRNET I 28 11 55 03.1–.10 41.05N 69.45E 2.7b **¶16464779**
SOME I 28 11 55 03.3 40.93N 69.77E 10 2.7b
NNC I 28 11 55 08.7–9.3 41.03N 69.81E 0 3.1b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=69.4km s-min=46.7km az=37.0.
ISC I 28 13 22 27.6–2.6 40.91N–.06 69.5E–.10 17–14 18 1-4
SOME I 28 13 22 19.9 40.70N 69.57E 5 **¶16464781**
KRNET I 28 13 22 24.8–.10 41.07N 69.47E 2.7b
NNC I 28 13 22 27.5–8.3 40.93N 69.45E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=61.7km s-min=41.8km az=29.0.
ISC I 30 06 18 47.6–3.7 38.2N–.20 72.7E–.20 35 10 4-14
NNC I 30 06 18 50.6–4.8 38.59N 72.50E 0 3.9b,3.6 **¶16484083**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=56.7km s-min=34.8km az=92.0.
ISC II 05 05 12 21.0–3.3 37.7N–.20 72.3E–.10 113 13 3-6
NNC II 05 05 12 19.6–3.6 37.91N 72.23E 0 3.8b,3.4 **¶16498972**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.7km s-min=11.8km az=149.0.
ISC II 06 01 06 25.1–3.0 37.8N–.20 72.34E–.10 119 15 3-6
NNC II 06 01 06 24.7–2.9 38.02N 72.26E 0 3.7b,3.3 **¶16498988**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.5km s-min=9.2km az=148.0.
ISC II 08 17 18 50.6–1.9 37.4N–.10 72.1E–.20 130 16 5-17
ISCJB II 08 17 18 50.5–1.5 37.39N–.07 72.2E–.20 130 **¶16328778**
NNC II 08 17 18 55.3–2.9 37.88N 72.07E 0 3.7b,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=27.3km s-min=5.5km az=162.8.
NNC Event type se. Error ellipse: s-maj=26.7km s-min=21.7km az=75.0.
ISC II 12 04 25 15.6–.90 40.22N–.04 70.90E–.06 16–9 27 0-4
KRNET II 12 04 25 14.6–.10 40.30N 70.74E 9 2.3b **¶16509544**
SOME II 12 04 25 15.0 40.15N 71.03E 10 2.3b
NNC II 12 04 25 16.2–.51 40.25N 71.10E 5–3 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=5.6km s-min=1.7km az=143.0.
ISC II 12 14 43 34.1–1.4 39.39N–.07 71.28E–.06 10 26 1-5
KRNET II 12 14 43 31.4–.10 39.24N 71.38E 3.1b **¶16509559**
NNC II 12 14 43 31.4–1.6 38.78N 71.89E 0 3.9b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.5km s-min=5.2km az=148.0.
ISC II 12 17 41 31.5–.53 37.33N–.05 72.31E–.06 200 3.6b 60 4-82
IDC II 12 17 41 30.3–2.2 37.27N 72.23E 166–18 4.1,3.6 **¶16168843**
ISCJB II 12 17 41 32.2–.28 37.43N–.02 72.18E–.05 200 3.6b,3.6
NNC II 12 17 41 39.1–1.7 37.98N 72.21E 233–13 4.3,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=17.5km s-min=12.0km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.2km az=165.8.
NNC Event type se. Error ellipse: s-maj=15.6km s-min=9.9km az=14.0.
ISC II 17 17 35 48.2–.73 37.62N–.07 72.03E–.06 130 42 3-82
ISCJB II 17 17 35 46.7–.44 37.53N–.04 72.05E–.06 130 3.4b **¶16398429**
NNC II 17 17 35 51.5–2.4 37.88N 71.87E 138–33 4.1,3.2b
IDC II 17 17 35 52.3–6.4 37.91N 72.16E 145–61 3.8,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=4.6km az=147.7.
NNC Event type se. Error ellipse: s-maj=24.8km s-min=13.4km az=151.0.
IDC Error ellipse: s-maj=54.2km s-min=29.5km az=5.0.
ISC II 17 19 14 00.1–2.4 37.4N–.20 72.2E–.10 200 3.5b 19 3-67
IDC II 17 19 13 50.5–12 37.27N 71.48E 114–151 3.6,3.3 **¶16398436**
NNC II 17 19 14 03.4–7.5 37.71N 71.84E 234–101 3.2,2.0b
ISC Event type se.
IDC Error ellipse: s-maj=108.4km s-min=51.1km az=105.0.
NNC Event type se. Error ellipse: s-maj=92.6km s-min=39.5km az=136.0.
ISC II 20 10 24 09.0–1.3 40.99N–.03 69.61E–.04 4–13 22 0-5
SOME II 20 10 24 07.2 40.88N 69.68E 5 **¶16531970**
KRNET II 20 10 24 09.1–.10 40.95N 69.61E 18 2.6b
NNC II 20 10 24 11.7–1.0 40.93N 69.96E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.0km s-min=7.1km az=109.0.
ISC II 20 20 54 49.3–1.7 38.3N–.10 72.9E–.10 103 15 3-67
ISCJB II 20 20 54 47.5–1.6 38.2N–.10 73.0E–.10 103 3.3b **¶16398626**
IDC II 20 20 54 50.7–6.0 38.32N 73.08E 124–55 3.4,3.0
NNC II 20 20 54 52.4–5.6 38.56N 72.77E 21–54 3.6b,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=19.8km s-min=8.4km az=150.8.
IDC Error ellipse: s-maj=57.9km s-min=48.0km az=118.0.
NNC Event type se. Error ellipse: s-maj=60.2km s-min=12.6km az=143.0.
ISC II 22 02 36 33.6–1.7 37.7N–.10 73.3E–.10 10 15 4-80
ISCJB II 22 02 36 31.0–1.3 37.67N–.09 73.5E–.10 10 3.4b **¶16398707**
IDC II 22 02 36 32.4–2.3 37.81N 73.52E 0 3.4,3.4b
NNC II 22 02 36 34.4–6.9 37.84N 73.31E 0 3.9b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.8km s-min=12.7km az=17.5.
IDC Error ellipse: s-maj=45.7km s-min=23.5km az=126.0.
NNC Event type se. Error ellipse: s-maj=64.4km s-min=26.8km az=141.0.
ISC II 22 16 53 33.1–1.4 39.16N–.08 71.70E–.05 10 38 1-79
IDC II 22 16 53 22.9–5.0 37.96N 72.53E 0 3.6,3.5 **¶16398763**
KRNET II 22 16 53 31.9–.10 39.22N 71.78E 1 3.6b,3.5
ISCJB II 22 16 53 32.9–.00 39.12N–.06 71.77E–.06 10 3.2b,3.5
NNC II 22 16 53 33.8–2.1 39.20N 71.74E 0 4.0b,3.7
SOME II 22 16 53 34.2 39.52N 71.48E 0 4.0b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=81.0km s-min=38.4km az=175.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=6.7km az=173.5.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=10.8km az=142.0.
ISC II 22 18 32 28.7–1.4 39.18N–.07 71.69E–.04 10 42 1-15
ISCJB II 22 18 32 27.8–1.1 39.07N–.07 71.74E–.06 10 **¶16535983**
SOME II 22 18 32 27.5 39.25N 71.68E 0
KRNET II 22 18 32 28.1–.10 39.23N 71.77E 22 3.3b
NNC II 22 18 32 28.1–2.0 39.14N 71.71E 0 3.8b,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.3km az=6.3.
NNC Event type se. Error ellipse: s-maj=20.7km s-min=9.1km az=146.0.
ISC II 22 18 43 38.0–1.5 39.26N–.08 71.58E–.05 10 30 1-13
SOME II 22 18 43 34.3 39.40N 71.68E 0 **¶16535984**
NNC II 22 18 43 36.4–2.3 39.17N 71.69E 0 3.7b,3.2
KRNET II 22 18 43 36.9–.10 39.42N 71.84E 3.0b,3.2
ISCJB II 22 18 43 38.6–1.5 39.29N–.09 71.71E–.07 10 3.0b,3.2
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC II 22 20 02 23.1–.53 38.35N–.05 69.56E–.04 12 3.8b 83 1-91
ISCJB II 22 20 02 21.1–.36 38.27N–.03 69.66E–.04 12 3.7b,3.2s **¶16168905**
IDC II 22 20 02 21.6–.88 38.33N 69.71E 0 3.8,3.7
NNC II 22 20 02 22.2–1.4 38.37N 69.61E 0 4.1b,4.0
BJI II 22 20 02 23.0 38.50N 69.70E 10 3.9b,3.4L
MOS II 22 20 02 25.1–1.2 38.55N 69.69E 30 4.1b,3.4L
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.2km s-min=4.1km az=32.2.
IDC Error ellipse: s-maj=18.7km s-min=11.3km az=149.0.
NNC Event type se. Error ellipse: s-maj=12.3km s-min=3.8km az=7.0.
MOS Error ellipse: s-maj=10.4km s-min=6.5km az=80.8.
ISC II 24 19 03 24.6–1.4 40.85N–.04 71.01E–.04 16–11 82 1-51
IDC II 24 19 03 21.4–3.6 40.86N 71.35E 0 4.2b,3.9 **¶600203341**
KRNET II 24 19 03 21.2–.10 40.80N 71.25E 3.4b,3.9
SOME II 24 19 03 23.8 40.98N 71.28E 0 3.4b,3.9
NNC II 24 19 03 25.6–.73 41.03N 71.10E 4–5 3.9b,3.6
ISC Event type ke.
IDC Error ellipse: s-maj=48.3km s-min=20.8km az=177.0.
NNC Event type se. Error ellipse: s-maj=5.5km s-min=2.8km az=132.0.
ISC II 27 06 58 14.2–1.8 37.7N–.10 72.1E–.10 200 16 3-67
IDC II 27 06 58 12.6–6.1 37.48N 72.10E 183–54 3.6,3.1b **¶16399092**
ISCJB II 27 06 58 14.0–1.3 37.7N–.10 72.02E–.10 200 3.3b,3.1b
NNC II 27 06 58 16.3–3.4 37.95N 72.18E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=65.6km s-min=39.6km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=9.1km az=152.7.
NNC Event type se. Error ellipse: s-maj=32.1km s-min=10.5km az=155.0.
ISC II 27 16 56 23.8–1.3 40.68N–.04 70.99E–.05 13–13 20 1-12
SOME II 27 16 56 20.9 40.65N 71.03E 25 **¶16647717**
NNC II 27 16 56 21.7–.87 40.77N 70.91E 0 3.4b,3.0
KRNET II 27 16 56 23.8–.10 40.68N 71.02E 13 2.8b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=6.2km az=124.0.
ISC II 28 11 27 39.0–1.2 40.73N–.04 71.05E–.03 7–13 35 1-5
KRNET II 28 11 27 39.0–.10 40.72N 71.00E 11 2.6b **¶16647745**
NNC II 28 11 27 39.8–.89 40.74N 71.14E 0 3.2b,2.8
SOME II 28 11 27 40.1 40.72N 70.97E 15 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=7.0km az=128.0.
ISC III 01 12 00 16.3–.60 37.38N–.06 72.20E–.07 200 3.6b 41 3-139
IDC III 01 12 00 15.7–4.0 37.18N 72.33E 200–32 3.9,3.4 **¶16484171**
ISCJB III 01 12 00 16.0–.41 37.40N–.04 72.13E–.07 200 3.5b,3.4
NNC III 01 12 00 20.9–2.7 37.74N 72.10E 180–24 4.2,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=44.0km s-min=23.9km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.1km az=145.7.
NNC Event type se. Error ellipse: s-maj=29.2km s-min=12.0km az=148.0.
ISC III 02 12 28 16.2–.63 38.10N–.05 72.61E–.07 119 3.7b 35 3-82
IDC III 02 12 28 14.3–3.1 37.92N 72.59E 101–25 4.0,3.7 **¶16461102**
ISCJB III 02 12 28 15.1–.43 38.12N–.03 72.59E–.06 119 3.7b,3.7
NNC III 02 12 28 18.2–1.8 38.28N 72.38E 154–21 4.0,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=25.5km s-min=17.8km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.6km az=15.2.
NNC Event type se. Error ellipse: s-maj=18.1km s-min=7.4km az=147.0.
ISC III 02 23 22 08.1–1.7 37.8N–.10 72.57E–.10 119 17 3-67
IDC III 02 23 22 08.8–6.3 37.77N 72.68E 135–55 3.7,3.4b **¶16484269**
ISCJB III 02 23 22 09.4–1.5 38.0N–.10 72.50E–.09 119 3.7b,3.4b
NNC III 02 23 22 13.7–7.3 38.18N 72.13E 174–67 3.6,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=57.1km s-min=46.1km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=14.9km s-min=8.9km az=161.1.
NNC Event type se. Error ellipse: s-maj=68.4km s-min=30.8km az=145.0.
NNC III 05 11 25 43.6–2.0 37.96N 72.16E 0 3.8b,3.4
¶16557111
NNC Event type se. Error ellipse: s-maj=18.0km s-min=6.5km az=150.0.
ISC III 07 03 20 57.7–1.0 39.15N–.07 71.29E–.04 34 39 1-79
IDC III 07 03 20 51.8–1.6 39.00N 71.62E 0 4.0,4.0s **¶16484527**
KRNET III 07 03 20 51.7–.10 39.11N 71.25E 3.5b,4.0s
ISCJB III 07 03 20 55.3–1.0 39.06N–.06 71.10E–.05 34 3.8s,3.4b
NNC III 07 03 20 57.9–.99 39.37N 71.30E 0 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=15.0km az=140.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=5.9km az=179.9.
NNC Event type se. Error ellipse: s-maj=16.4km s-min=5.6km az=157.0.
ISC III 07 13 10 49.3–.90 40.36N–.04 71.73E–.03 10 42 1-5
KRNET III 07 13 10 47.3–.10 40.29N 71.71E 11 2.7b **¶16558810**
SOME III 07 13 10 47.4 40.33N 71.73E 0 2.7b
NNC III 07 13 10 49.3–.80 40.36N 71.76E 0 2.9b,2.5
ISCJB III 07 13 10 49.9–.64 40.19N–.05 71.71E–.04 10 2.9b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 10 06 31 26.1–1.2 40.04N–.04 71.17E–.03 7–11 29 0-4
KRNET III 10 06 31 25.8–.10 40.02N 71.21E 8 2.1b **¶16577573**
NNC III 10 06 31 27.8–1.2 40.07N 71.07E 7–8 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.1km s-min=2.9km az=164.0.
KRNET III 11 21 26 53.4–.10 40.03N 71.73E 1 5.3b
¶16587415
ISC III 11 23 47 13.0–.83 37.34N–.06 72.96E–.10 100 26 4-67
ISCJB III 11 23 47 13.7–.71 37.27N–.05 72.88E–.07 100 3.4b **¶16461279**
IDC III 11 23 47 16.0–6.6 37.42N 71.52E 172–46 4.2,3.6
ISC Event type ke.

ISCJB Event type ke. Error ellipse: s-maj=8.7km s-min=5.7km az=143.1.
IDC Error ellipse: s-maj=88.2km s-min=18.0km az=149.0.
IDC III 16 04 10 08.8–6.3 38.56N 69.98E 0 4.4,4.4s
¶17196332

IDC Error ellipse: s-maj=255.5km s-min=24.5km az=146.0.
ISC III 16 15 23 40.3–.52 37.17N–.05 72.06E–.07 142 3.8b 67 3-84
ISCJB III 16 15 23 39.5–.29 37.26N–.03 72.01E–.05 142 3.7b **¶16461819**
IDC III 16 15 23 44.0–3.5 37.63N 71.40E 119–31 4.1,3.7
NNC III 16 15 23 46.5–2.0 37.79N 71.57E 181–20 4.9,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.5km az=157.9.
IDC Error ellipse: s-maj=24.9km s-min=15.4km az=5.0.
NNC Event type se. Error ellipse: s-maj=18.0km s-min=10.8km az=15.0.
ISC III 19 05 41 46.5–1.1 38.4N–.10 69.36E–.09 12 3.5b 22 5-86
ISCJB III 19 05 41 44.7–.98 38.4N–.10 69.31E–.09 12 3.5b **¶16461975**
IDC III 19 05 41 44.1–1.2 38.30N 69.52E 0 3.8,3.6
NNC III 19 05 41 47.2–2.7 38.66N 69.22E 0 4.0b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=7.0km az=152.2.
IDC Error ellipse: s-maj=23.5km s-min=12.4km az=152.0.
NNC Event type se. Error ellipse: s-maj=27.6km s-min=14.2km az=167.0.
ISC III 20 19 45 30.2–1.9 37.6N–.10 72.12E–.10 200 19 3-67
IDC III 20 19 45 26.1–6.3 37.11N 72.47E 186–54 3.4,2.9b **¶16479813**
ISCJB III 20 19 45 29.6–1.2 37.61N–.08 72.11E–.09 200 2.8b,2.9b
NNC III 20 19 45 33.1–1.2 37.78N 71.99E 177–9 3.2,2.3b
ISC Event type se.
IDC Error ellipse: s-maj=74.6km s-min=39.4km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=12.5km s-min=8.6km az=154.0.
NNC Event type se. Error ellipse: s-maj=10.9km s-min=4.1km az=156.0.
ISC III 21 10 43 10.1–1.2 38.51N–.07 72.7E–.10 31 10 4-6
ISCJB III 21 10 43 08.3–.74 38.52N–.04 72.6E–.20 31 **¶16633208**
NNC III 21 10 43 12.6–2.3 38.91N 72.67E 0 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.1km s-min=6.0km az=1.7.
NNC Event type se. Error ellipse: s-maj=18.6km s-min=16.0km az=36.0.
NNC III 21 10 50 01.8–.63 39.18N 69.74E 0 3.5b,3.2
¶16633209

NNC Event type se. Error ellipse: s-maj=15.4km s-min=3.2km az=146.0.
NNC III 24 13 04 29.8–2.4 37.92N 72.03E 150–36 3.5,2.6b
¶16647849

NNC Event type se. Error ellipse: s-maj=31.6km s-min=19.0km az=69.0.
ISC III 25 03 51 30.5–2.1 39.2N–.10 69.71E–.08 10 31 1-14
NNC III 25 03 51 26.1–3.4 39.00N 69.80E 0 3.6b,3.1 **¶16647858**
KRNET III 25 03 51 27.3–.10 39.41N 69.55E 2.9b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=24.8km s-min=14.8km az=24.0.
ISC III 25 20 13 46.4–.76 37.19N–.06 72.04E–.08 142 3.8b 33 3-81
ISCJB III 25 20 13 45.7–.51 37.21N–.04 72.00E–.08 142 3.6b **¶16455726**
IDC III 25 20 13 47.2–5.3 37.33N 71.88E 129–31 3.7,3.5b
NNC III 25 20 13 53.4–1.9 37.74N 71.81E 158–25 3.9,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=4.8km az=158.9.
IDC Error ellipse: s-maj=61.1km s-min=23.5km az=151.0.
NNC Event type se. Error ellipse: s-maj=20.3km s-min=15.5km az=66.0.
ISC III 26 18 10 04.0–2.2 39.2N–.10 70.44E–.08 17 18 1-13
NNC III 26 18 09 59.5–2.6 38.88N 70.44E 0 3.6b,3.1 **¶16681425**
KRNET III 26 18 09 60.0–.10 39.18N 70.40E 2.9b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.9km s-min=12.1km az=23.0.
NNC III 30 11 12 41.2–1.5 38.33N 72.63E 0 3.7b,3.4
¶16684721

NNC Event type se. Error ellipse: s-maj=13.9km s-min=6.9km az=138.0.
ISC III 31 09 12 15.5–1.4 40.96N–.04 69.34E–.09 7–14 24 1-5
KRNET III 31 09 12 13.6–.10 41.03N 69.35E 2.7b **¶16705041**
SOME III 31 09 12 15.7 40.85N 69.70E 20 2.7b
NNC III 31 09 12 16.4–1.2 40.96N 69.73E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.6km s-min=7.7km az=117.0.
SOME III 31 12 25 01.1 40.75N 69.73E 20
¶16705057

ISC IV 01 22 41 19.1–1.9 39.83N–.08 71.81E–.05 1–18 12 1-3
NNC IV 01 22 41 19.4–3.8 39.65N 71.82E 0 2.7b,2.1 **¶16705205**
KRNET IV 01 22 41 19.3–.10 39.87N 71.79E 26 1.8b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=75.3km s-min=21.3km az=168.0.
ISC IV 02 06 38 56.3–.31 38.01N–.03 72.92E–.04 127 4.5b 348 2-152
ISCJB IV 02 06 38 55.0–.14 37.94N–.02 72.95E–.03 127 4.5b **¶16403575**
IDC IV 02 06 38 57.1–2.3 38.00N 72.91E 131–19 4.4,4.1
NEIC IV 02 06 38 57.3–.57 38.02N 72.90E 131–4 4.6b,4.1
MOS IV 02 06 38 57.7–.98 38.12N 72.95E 143 4.6b,4.1
BJI IV 02 06 38 59.3 37.97N 73.19E 164 4.7b,4.4b
NNC IV 02 06 39 01.5–1.4 38.43N 72.86E 172–7 4.7,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.3km az=154.9.
IDC Error ellipse: s-maj=17.0km s-min=10.0km az=165.0.
NEIC Event type se. Error ellipse: s-maj=6.0km s-min=3.8km az=157.0.
MOS Error ellipse: s-maj=6.5km s-min=4.0km az=107.7.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=9.9km az=25.0.
ISC IV 03 12 19 04.3–1.5 40.16N–.06 71.60E–.04 3–14 21 1-4
NNC IV 03 12 19 04.8–1.1 40.26N 71.63E 0 3.0b,2.7 **¶16713871**
KRNET IV 03 12 19 05.4–.10 40.00N 71.58E 2.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.7km s-min=3.3km az=40.0.
NNC IV 05 07 57 27.1–2.0 38.68N 69.86E 0 3.7b,3.3
¶16716954

NNC Event type se. Error ellipse: s-maj=14.6km s-min=11.5km az=34.0.
NNC IV 05 23 59 01.9–4.1 38.22N 72.60E 138–22 3.2,2.5b
¶16716978

NNC Event type se. Error ellipse: s-maj=34.4km s-min=10.0km az=151.0.
ISC IV 14 13 45 27.4–5.6 40.6N–.20 69.3E–.20 10 7 2-4
SOME IV 14 13 45 31.2 40.83N 69.28E 10 **¶16852729**
NNC IV 14 13 45 33.4–5.6 40.98N 69.54E 0 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.3km s-min=28.0km az=36.0.
ISC IV 15 05 57 32.7–1.7 40.91N–.10 71.2E–.10 15–24 12 2-3
SOME IV 15 05 57 35.5 41.08N 71.35E 0 **¶16852755**
NNC IV 15 05 57 35.5–1.4 41.03N 71.40E 0 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.6km s-min=5.3km az=66.0.
NNC IV 18 05 06 32.0–4.8 38.38N 72.04E 0 3.6b,3.2
¶16852897

NNC Event type se. Error ellipse: s-maj=36.7km s-min=23.1km az=168.0.
ISC IV 19 02 30 30.1–1.9 40.96N–.05 69.6E–.10 8–13 22 1-4
KRNET IV 19 02 30 28.7–.10 40.96N 69.52E 2.4b **¶16852945**
SOME IV 19 02 30 29.5 40.85N 69.82E 10 2.4b
NNC IV 19 02 30 30.7–2.1 40.86N 69.47E 0 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.3km s-min=8.5km az=58.0.
ISC IV 21 19 53 19.7–.84 40.30N–.03 71.31E–.03 10 45 0-13
KRNET IV 21 19 53 19.4–.10 40.28N 71.22E 17 2.8b **¶16872855**
ISCJB IV 21 19 53 20.3–.58 40.23N–.04 71.23E–.04 10 2.8b
NNC IV 21 19 53 20.4–2.8 40.24N 71.28E 0 3.3b,3.0
SOME IV 21 19 53 23.0 40.52N 71.38E 5 3.3b,3.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.2km az=163.1.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=13.2km az=49.0.
ISC IV 22 17 35 15.8–2.1 40.82N–.03 71.17E–.04 10–16 26 1-3
SOME IV 22 17 35 15.6 40.93N 71.25E 0 **¶16881740**
KRNET IV 22 17 35 17.0–.10 40.83N 71.20E 30 1.9b
NNC IV 22 17 35 19.5–2.4 41.03N 71.56E 0 2.5b,2.2
ISC Event type se.

NNC Event type se. Error ellipse: s-maj=27.0km s-min=11.1km az=59.0.
ISC IV 22 21 35 45.2–.57 37.97N–.05 72.69E–.08 119 3.5b 42 2-82
IDC IV 22 21 35 41.9–3.0 37.85N 72.66E 90–23 3.8,3.6 **¶16505494**
ISCJB IV 22 21 35 44.1–.34 38.02N–.03 72.56E–.07 119 3.5b,3.6
NNC IV 22 21 35 48.7–2.0 38.27N 72.37E 133–20 3.8,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=23.7km s-min=14.6km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=7.7km s-min=3.7km az=179.4.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=15.7km az=64.0.
ISC IV 22 23 24 27.9–1.1 40.98N–.02 71.72E–.02 10–7 3.8b 122 1-86
KRNET IV 22 23 24 27.8–.10 41.06N 71.81E 14 3.8b **¶16505497**
IDC IV 22 23 24 29.0–3.3 40.99N 71.96E 19–21 3.9,3.8
NNC IV 22 23 24 29.2–1.1 41.04N 71.86E 0 4.6b,4.5
SOME IV 22 23 24 30.4 41.17N 71.87E 10 3.4s,4.5
ISC Event type se.
IDC Error ellipse: s-maj=14.0km s-min=10.3km az=168.0.
NNC Event type se. Error ellipse: s-maj=11.1km s-min=5.3km az=62.0.
ISC IV 28 12 51 58.1–1.6 40.88N–.05 69.72E–.05 12–12 29 1-11
SOME IV 28 12 51 57.5 40.87N 69.65E 10 **¶16912168**
KRNET IV 28 12 51 58.0–.10 40.87N 69.63E 2.6b
NNC IV 28 12 52 01.3–2.6 40.94N 69.49E 141–79 3.2,2.2b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=47.5km s-min=16.3km az=30.0.
NNC IV 29 21 26 50.9–5.5 37.45N 72.16E 0 3.6b,3.2
¶16912212

NNC Event type se. Error ellipse: s-maj=44.8km s-min=21.1km az=148.0.
SOME IV 30 08 54 02.9 40.85N 69.58E 10
¶16912226

ISC IV 30 16 51 45.2–1.4 37.27N–.10 72.0E–.10 142 12 3-17
ISCJB IV 30 16 51 44.6–.86 37.31N–.05 72.1E–.10 142 **¶16912236**
NNC IV 30 16 51 50.5–2.9 37.73N 71.67E 137–41 3.8,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=6.4km az=168.2.
NNC Event type se. Error ellipse: s-maj=27.0km s-min=23.1km az=60.0.
ISC V 01 08 25 34.2–2.5 41.00N–.06 69.6E–.10 10 12 1-5
NNC V 01 08 25 32.8–4.3 40.89N 69.64E 0 3.1b,2.7 **¶16912261**
KRNET V 01 08 25 34.9–.10 40.79N 69.52E 2.8b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.3km s-min=14.9km az=22.0.
NNC V 01 08 31 57.4–3.0 38.12N 69.41E 0 3.6b,3.2
¶16912262

NNC Event type se. Error ellipse: s-maj=26.0km s-min=14.9km az=3.0.
ISC V 01 12 33 16.5–.71 40.20N–.04 71.84E–.03 10 3.6b 45 1-86
IDC V 01 12 33 13.8–.96 40.04N 71.84E 0 3.7,3.6b **¶16708482**
SOME V 01 12 33 17.7 40.23N 71.82E 0 3.7,3.6b
NNC V 01 12 33 18.6–3.2 40.23N 71.85E 10–18 3.9b,3.5
KRNET V 01 12 33 18.3–.10 40.13N 71.78E 30 3.6b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=20.3km s-min=13.7km az=135.0.
NNC Event type se. Error ellipse: s-maj=22.5km s-min=10.4km az=43.0.
ISC V 02 01 38 49.9–1.6 37.2N–.10 73.1E–.10 10 3.6b 26 3-80
SOME V 02 01 38 44.6 38.18N 70.98E 5 3.6b **¶16708546**
IDC V 02 01 38 50.3–3.0 37.47N 73.61E 0 3.7,3.6b
NNC V 02 01 38 51.3–3.0 37.22N 73.03E 143–34 3.5,2.7b
ISC Event type se.
IDC Error ellipse: s-maj=57.0km s-min=30.9km az=135.0.
NNC Event type se. Error ellipse: s-maj=30.3km s-min=24.4km az=79.0.
ISC V 04 21 08 17.7–1.5 39.04N–.09 71.36E–.06 10 3.5b 22 3-79
IDC V 04 21 08 08.9–3.0 38.16N 71.66E 0 3.6,3.6b **¶17202796**
SOME V 04 21 08 18.5 39.08N 71.40E 20 3.6,3.6b
ISC Event type ke.
IDC Error ellipse: s-maj=58.6km s-min=19.4km az=143.0.
ISC V 04 21 34 12.9–1.6 39.2N–.10 71.40E–.06 10 3.5b 21 3-42
SOME V 04 21 34 11.1 39.12N 71.33E 5 3.5b **¶17202798**
IDC V 04 21 34 17.6–15 38.70N 72.06E 107–93 3.5,3.1
ISC Event type ke.
IDC Error ellipse: s-maj=169.1km s-min=53.7km az=180.0.
ISC V 05 20 09 21.7–1.3 40.98N–.03 71.93E–.04 6–12 22 1-2
SOME V 05 20 09 21.4 41.08N 71.88E 5 **¶16915468**
KRNET V 05 20 09 22.2–.10 40.98N 71.96E 15 1.6b
NNC V 05 20 09 23.9–10 41.06N 72.06E 11–71 2.9b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=50.4km s-min=17.1km az=67.0.
NNC V 06 20 08 17.8–3.2 38.44N 72.28E 0 3.6b,3.2
¶16918919

NNC Event type se. Error ellipse: s-maj=33.3km s-min=10.1km az=152.0.
ISC V 13 08 13 23.6–1.6 39.56N–.06 71.95E–.04 7–12 29 1-4
KRNET V 13 08 13 23.1–.10 39.50N 72.02E 16 2.7b **¶16946149**
NNC V 13 08 13 28.6–10 39.37N 72.24E 24–84 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=70.8km s-min=20.2km az=140.0.
ISC V 14 05 53 47.0–.94 40.40N–.04 71.92E–.03 10 53 1-5
KRNET V 14 05 53 47.5–.10 40.42N 71.97E 20 3.3b **¶16946186**
ISCJB V 14 05 53 48.5–.62 40.31N–.04 72.07E–.04 10 3.3b
NNC V 14 05 53 48.8–1.3 40.42N 72.03E 0 3.5b,3.2
SOME V 14 05 53 48.5 40.47N 71.98E 5 3.5b,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.5km az=161.6.
NNC Event type se. Error ellipse: s-maj=15.0km s-min=9.0km az=128.0.
ISC V 16 14 47 06.1–1.7 39.64N–.07 71.95E–.04 6–13 42 1-6
KRNET V 16 14 47 07.2–.10 39.65N 71.92E 15 2.7b **¶16951420**
NNC V 16 14 47 08.8–2.6 39.63N 72.07E 0 3.3b,2.9
SOME V 16 14 47 12.5 40.07N 71.72E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.3km s-min=14.5km az=129.0.
ISC V 17 15 50 00.5–2.7 37.6N–.20 72.3E–.10 150 10 3-67
IDC V 17 15 49 51.3–4.7 39.37N 69.13E 0 3.7,3.7 **¶16951462**
NNC V 17 15 50 03.5–3.1 37.91N 72.17E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=208.0km s-min=21.6km az=149.0.
NNC Event type se. Error ellipse: s-maj=27.5km s-min=10.0km az=151.0.
NNC V 19 06 27 11.1–1.5 38.27N 69.13E 0 3.7b,3.3
¶16956153

NNC Event type se. Error ellipse: s-maj=17.5km s-min=6.8km az=51.0.
ISC V 19 12 13 55.8–1.4 37.3N–.10 72.45E–.09 150 3.7b 19 3-80
NNC V 19 12 14 03.2–3.6 37.76N 72.03E 172–75 3.6,2.6b **¶16710295**
IDC V 19 12 14 09.1–4.6 37.89N 72.31E 259–29 3.9,3.5b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=50.4km s-min=18.1km az=129.0.
IDC Error ellipse: s-maj=62.9km s-min=18.6km az=156.0.
NNC V 20 19 27 34.6–3.7 37.87N 72.15E 0 4.1b,3.7
¶16988766

NNC Event type se. Error ellipse: s-maj=32.6km s-min=12.6km az=154.0.
ISC V 22 05 48 28.7–1.4 38.0N–.10 72.57E–.08 119 3.4b 19 3-80
ISCJB V 22 05 48 27.4–1.1 37.95N–.07 72.59E–.08 119 3.4b **¶16710583**
IDC V 22 05 48 28.7–7.1 37.79N 72.82E 141–61 3.6,3.2
NNC V 22 05 48 32.2–2.3 38.17N 72.44E 139–34 3.5,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=7.4km az=147.7.
IDC Error ellipse: s-maj=60.2km s-min=35.0km az=149.0.
NNC Event type se. Error ellipse: s-maj=22.8km s-min=8.9km az=143.0.
ISC V 22 12 35 12.6–1.6 40.73N–.08 69.6E–.20 35 7 1-3
SOME V 22 12 35 04.7 40.72N 69.35E 5 **¶16988899**
NNC V 22 12 35 05.9–1.2 40.76N 69.69E 0 2.9b,2.5
ISCJB V 22 12 35 11.1–1.1 40.65N–.07 69.7E–.20 33 2.9b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 22 16 00 13.5–1.4 40.07N–.05 70.68E–.05 2–11 29 0-5
KRNET V 22 16 00 11.8–.10 39.97N 70.60E 2.8b **¶16988904**
SOME V 22 16 00 11.8 40.05N 70.67E 0 2.8b

NNC V 22 16 00 13.8–.57 40.09N 70.66E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.4km s-min=3.5km az=131.0.
NNC V 23 07 08 12.3–6.0 37.76N 72.07E 49–426 3.7b,3.3
¶16992673

NNC Event type se. Error ellipse: s-maj=59.3km s-min=26.5km az=117.0.
ISC V 24 22 16 45.9–2.1 40.06N–.09 71.47E–.04 10–15 19 0-3
KRNET V 24 22 16 46.3–.10 40.03N 71.52E 11 2.5b **¶16992724**
SOME V 24 22 16 48.3 40.07N 71.40E 10 2.5b
ISC Event type ke.
ISC V 26 00 04 58.6–1.5 39.06N–.10 70.33E–.07 17 23 1-14
KRNET V 26 00 04 54.4–.10 39.22N 70.00E 3.3b **¶17002827**
NNC V 26 00 04 54.2–1.4 38.68N 70.56E 0 4.0b,3.5
ISCJB V 26 00 04 58.7–1.0 39.09N–.07 70.29E–.05 17 4.0b,3.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 26 06 23 41.1–2.2 40.91N–.06 69.2E–.20 7–18 30 1-5
KRNET V 26 06 23 40.6–.10 40.93N 69.18E 3.0b **¶17002835**
SOME V 26 06 23 44.1 41.00N 69.67E 0 3.0b
NNC V 26 06 23 44.7–1.5 41.04N 69.62E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.8km s-min=9.7km az=117.0.
ISC V 26 10 02 05.7–.68 37.51N–.06 72.43E–.06 176 3.5b 35 3-82
ISCJB V 26 10 02 05.7–.43 37.52N–.04 72.42E–.07 176 3.5b **¶16710961**
SOME V 26 10 02 05.1 38.33N 71.98E 15 3.5b
IDC V 26 10 02 07.0–3.7 37.40N 72.45E 194–33 3.9,3.4
NNC V 26 10 02 11.6–2.8 37.93N 72.19E 191–34 3.6,2.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=3.9km az=155.5.
IDC Error ellipse: s-maj=30.4km s-min=25.5km az=19.0.
NNC Event type se. Error ellipse: s-maj=29.7km s-min=12.2km az=140.0.
ISC V 28 16 45 46.4–1.5 39.89N–.09 70.49E–.08 16 14 0-5
KRNET V 28 16 45 42.3–.10 39.81N 70.48E 2.1b **¶17029841**
ISCJB V 28 16 45 46.7–1.0 39.78N–.09 70.5E–.10 16 2.1b
NNC V 28 16 45 46.0–.76 40.11N 70.22E 0 3.2b,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=8.1km az=139.1.
NNC Event type se. Error ellipse: s-maj=20.7km s-min=5.4km az=126.0.
NNC V 29 09 21 30.6–10 37.70N 72.05E 5–146 4.0b,3.6
¶17030736

NNC Event type se. Error ellipse: s-maj=174.6km s-min=26.3km az=153.0.
ISC VI 01 01 13 21.6–1.6 39.2N–.10 71.80E–.06 33 26 1-5
KRNET VI 01 01 13 16.5–.10 39.34N 71.89E 2.3b **¶17061175**
ISCJB VI 01 01 13 18.0–1.4 39.10N–.08 71.78E–.07 33 2.3b
NNC VI 01 01 13 20.6–2.2 39.41N 72.02E 0 3.2b,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=7.7km az=173.0.
NNC Event type se. Error ellipse: s-maj=26.4km s-min=8.1km az=140.0.
ISC VI 01 22 44 49.8–1.7 39.38N–.09 71.97E–.05 10 38 1-4
KRNET VI 01 22 44 45.9–.10 39.36N 71.97E 2.7b **¶17061211**
ISCJB VI 01 22 44 48.9–.99 39.32N–.06 71.97E–.05 10 2.7b
NNC VI 01 22 44 51.1–2.6 39.42N 71.94E 0 3.7b,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.5km az=166.8.
NNC Event type se. Error ellipse: s-maj=27.7km s-min=13.1km az=137.0.
ISC VI 02 08 05 25.5–.74 37.30N–.06 72.12E–.06 130 3.7b 29 3-80
ISCJB VI 02 08 05 24.5–.54 37.27N–.05 72.14E–.07 130 3.5b **¶17204965**
IDC VI 02 08 05 26.3–4.1 37.24N 72.16E 141–28 3.8,3.4
NNC VI 02 08 05 32.8–1.3 37.73N 71.90E 142–18 3.7,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.1km az=158.7.
IDC Error ellipse: s-maj=44.8km s-min=19.3km az=147.0.
NNC Event type se. Error ellipse: s-maj=13.7km s-min=5.8km az=140.0.
ISC VI 02 23 09 07.6–1.9 39.51N–.07 71.85E–.05 2–13 25 1-4
ISCJB VI 02 23 09 07.9–1.6 39.38N–.09 71.94E–.06 2–15 **¶17205038**
KRNET VI 02 23 09 07.1–.10 39.44N 71.93E 2.7b
NNC VI 02 23 09 09.1–3.1 39.40N 71.88E 0 3.2b,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=7.3km az=177.3.
NNC Event type se. Error ellipse: s-maj=32.2km s-min=12.6km az=127.0.
ISC VI 03 04 52 04.9–1.6 40.47N–.07 71.91E–.06 22–6 14 1-3
NNC VI 03 04 52 03.8–2.0 40.50N 71.94E 0 2.5b,2.1 **¶17205058**
KRNET VI 03 04 52 04.1–.10 40.43N 71.97E 23 2.2b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.4km s-min=9.1km az=133.0.
ISC VI 05 20 41 35.5–.39 39.06N–.03 71.07E–.03 33 4.2b,3.3s 197 1-86
BJI VI 05 20 41 31.1 39.14N 70.97E 13 4.5b,4.3L **¶16722617**
KRNET VI 05 20 41 32.0–.10 39.02N 70.96E 4.4b,4.3L
MOS VI 05 20 41 33.2–1.1 39.09N 71.14E 24 4.5b,4.3L
ISCJB VI 05 20 41 34.2–.22 38.97N–.02 71.04E–.03 33 4.1b,3.2s
IDC VI 05 20 41 35.4–3.0 38.89N 71.05E 34–23 4.1,4.0
NEIC VI 05 20 41 36.9–1.7 39.02N 70.96E 47–13 4.5b,4.0
NNC VI 05 20 41 36.1–1.2 39.25N 70.76E 0 4.8b,4.6
ISC Event type se.
MOS Error ellipse: s-maj=7.4km s-min=5.5km az=107.4.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=3.0km az=171.1.
IDC Error ellipse: s-maj=18.0km s-min=9.7km az=3.0.
NEIC Event type se. Error ellipse: s-maj=17.6km s-min=7.9km az=184.0.
NNC Event type se. Error ellipse: s-maj=16.2km s-min=4.9km az=144.0.
ISC VI 06 10 01 56.6–1.3 40.18N–.04 71.70E–.03 11–11 36 1-5
SOME VI 06 10 01 55.8 40.12N 72.03E 5 **¶17208897**
KRNET VI 06 10 01 56.3–.10 40.14N 71.71E 18 3.1b
NNC VI 06 10 01 57.9–2.1 40.14N 71.75E 0 3.8b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.9km s-min=11.9km az=128.0.
ISC VI 10 22 20 53.7–1.5 39.62N–.06 70.47E–.06 1–12 34 1-5
NNC VI 10 22 20 51.9–3.2 39.24N 70.86E 0 3.5b,3.1 **¶17216488**
KRNET VI 10 22 20 52.6–.10 39.70N 70.30E 2.8b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=45.2km s-min=11.1km az=141.0.
ISC VI 12 14 35 40.4–1.2 39.58N–.04 71.48E–.03 5–12 27 0-5
KRNET VI 12 14 35 40.4–.10 39.62N 71.47E 6 2.4b **¶17218464**
NNC VI 12 14 35 44.6–1.7 39.64N 71.46E 0 3.3b,2.9
SOME VI 12 14 35 50.5 39.97N 71.53E 5 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.1km s-min=6.8km az=134.0.
ISC VI 17 05 28 39.5–.46 37.86N–.04 72.78E–.04 10 4.2b,3.4s 91 3-82
ISCJB VI 17 05 28 37.4–.38 37.79N–.03 72.71E–.06 10 4.1b,3.5s **¶16713637**
IDC VI 17 05 28 38.2–1.0 37.85N 72.83E 0 4.1,4.0
BJI VI 17 05 28 41.8 37.84N 73.07E 8 4.2b,4.2b
NNC VI 17 05 28 44.4–1.0 38.17N 72.69E 0 4.6b,4.3
NEIC VI 17 05 28 46.8–2.7 38.13N 72.71E 56–20 4.3b,4.3
MOS VI 17 05 28 48.9–1.9 38.33N 72.72E 75 4.3b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=3.7km az=154.9.
IDC Error ellipse: s-maj=19.8km s-min=18.0km az=154.0.
NNC Event type se. Error ellipse: s-maj=9.3km s-min=5.2km az=146.0.
NEIC Event type se. Error ellipse: s-maj=27.1km s-min=13.7km az=194.0.
MOS Error ellipse: s-maj=12.6km s-min=5.4km az=86.6.
ISC VI 23 19 18 39.3–.74 40.15N–.03 71.51E–.02 25–5 4.2b,3.1s 188 1-86
IDC VI 23 19 18 35.2–.75 40.15N 71.67E 0 4.1,4.0 **¶16720979**
BJI VI 23 19 18 37.9 40.11N 71.56E 16 4.4b,4.1b
KRNET VI 23 19 18 37.7–.10 40.24N 71.60E 20 4.4b,4.1b
MOS VI 23 19 18 38.8–1.2 40.13N 71.56E 33 4.4b,4.1b
SOME VI 23 19 18 38.6 40.25N 71.78E 10 3.8s,4.1b
ISCJB VI 23 19 18 39.3–.37 40.05N–.02 71.54E–.03 43–4 4.1b,3.0s
NEIC VI 23 19 18 40.4–2.6 40.31N 71.51E 29–19 4.4b,3.0s
NNC VI 23 19 18 40.2–2.1 40.33N 71.65E 6–8 4.5b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=15.0km s-min=9.9km az=157.0.
MOS Error ellipse: s-maj=9.2km s-min=6.9km az=84.1.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.2km az=137.3.
NEIC Event type se. Error ellipse: s-maj=11.5km s-min=7.0km az=175.0.
NNC Event type se. Error ellipse: s-maj=15.8km s-min=9.0km az=178.0.
ISC VI 27 19 42 22.2–1.4 40.18N–.04 69.79E–.04 11–9 3.7b 72 1-87
IDC VI 27 19 42 19.0–1.1 39.75N 69.83E 0 3.7,3.7b **¶17207096**
KRNET VI 27 19 42 21.1–.10 40.15N 69.75E 4.0b,3.7b
NNC VI 27 19 42 25.6–3.6 40.38N 69.57E 17–14 3.9b,3.6
SOME VI 27 19 42 29.2 40.38N 70.02E 0 3.9b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=20.5km s-min=15.5km az=164.0.
NNC Event type se. Error ellipse: s-maj=24.8km s-min=11.7km az=28.0.
ISC VI 29 04 53 07.2–1.7 40.22N–.05 69.99E–.05 1–11 46 1-12
KRNET VI 29 04 53 04.0–.10 39.98N 69.72E 3.0b **¶17270292**
SOME VI 29 04 53 07.2 40.15N 70.00E 5 3.0b
NNC VI 29 04 53 12.2–4.2 39.87N 69.39E 100 3.6,2.8b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.6km s-min=19.7km az=10.0.
SOME VI 29 07 04 46.6 40.27N 71.52E 30
¶603798866

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ISC I 01 18 12 12.2–2.8 41.0N–.10 74.03E–.06 1–17 15 1-3
NNC I 01 18 12 08.7–10 40.76N 73.83E 0 2.6b,2.2 **¶16405023**
KRNET I 01 18 12 11.7–.10 41.04N 74.06E 4 1.8b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=76.1km s-min=45.3km az=160.0.
ISC I 02 18 44 11.4–1.2 42.02N–.03 72.13E–.02 3–10 50 0-4
SOME I 02 18 44 11.5 42.05N 72.13E 10 **¶16405043**
KRNET I 02 18 44 12.0–.10 41.89N 72.28E 3 2.4b
NNC I 02 18 44 12.9–1.7 42.11N 72.10E 0 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.0km s-min=6.5km az=169.0.
ISC I 05 03 51 34.0–1.7 41.59N–.04 69.28E–.06 4–13 41 1-10
SOME I 05 03 51 33.9 41.60N 69.15E 0 **¶16414739**
KRNET I 05 03 51 34.0–.10 41.61N 69.14E 3.2b
NNC I 05 03 51 38.5–3.4 41.82N 69.18E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.8km s-min=22.8km az=111.0.
ISC I 05 06 11 06.5–.88 41.17N–.03 71.84E–.03 10 51 1-4
KRNET I 05 06 11 05.3–.10 41.15N 71.86E 1 2.9b **¶16414743**
SOME I 05 06 11 07.4 41.20N 71.88E 5 2.9b
ISCJB I 05 06 11 08.1–.52 41.12N–.04 71.80E–.04 10 2.9b
NNC I 05 06 11 09.3–2.8 41.30N 71.95E 0 3.1b,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.9km az=143.8.
NNC Event type se. Error ellipse: s-maj=20.0km s-min=18.3km az=134.0.
ISC I 05 11 57 12.6–.95 42.70N–.03 72.24E–.02 14–8 105 0-12
NNC I 05 11 57 11.7–.37 42.73N 72.21E 0 4.0b,3.9 **¶16414758**
KRNET I 05 11 57 12.8–.10 42.68N 72.28E 17 3.8b,3.9
SOME I 05 11 57 13.3 42.77N 72.28E 10 3.8b,3.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.6km s-min=1.9km az=42.0.
ISC I 06 00 04 18.9–1.6 41.32N–.05 69.88E–.07 4–16 19 1-5
KRNET I 06 00 04 16.1–.10 41.35N 69.76E 2.4b **¶16414767**
SOME I 06 00 04 19.6 41.37N 70.13E 0 2.4b
NNC I 06 00 04 20.0–3.2 41.33N 69.96E 0 3.0b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=15.5km az=37.0.
KRNET I 07 18 55 44.7–.10 41.28N 73.70E 7 1.9b
¶601988964

ISC I 09 13 31 43.7–1.1 42.74N–.03 72.27E–.02 11–10 77 0-6
KRNET I 09 13 31 44.8–.10 42.69N 72.35E 15 2.8b **¶16416105**
SOME I 09 13 31 44.3 42.75N 72.28E 15 2.8b
NNC I 09 13 31 44.2–.73 42.67N 72.18E 0 3.2b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.6km s-min=3.8km az=31.0.
ISC I 09 14 03 44.7–1.5 41.82N–.07 72.52E–.03 11–11 33 1-3
SOME I 09 14 03 43.5 41.70N 72.50E 10 **¶16416107**
KRNET I 09 14 03 44.4–.10 41.93N 72.51E 13 2.0b
NNC I 09 14 03 46.4–2.1 41.86N 72.45E 0 2.6b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.1km s-min=10.3km az=38.0.
ISC I 09 15 00 49.6–.95 42.18N–.02 73.58E–.02 5–7 111 0-9
KRNET I 09 15 00 49.1–.10 42.17N 73.58E 14 2.6b **¶16416109**
SOME I 09 15 00 49.2 42.18N 73.53E 5 2.6b
KNET I 09 15 00 50.6–.33 42.20N 73.70E 0 2.5L
NNC I 09 15 00 51.4–3.1 42.34N 73.56E 0 3.5b,3.1
ISC Event type se.
KNET Error ellipse: s-maj=2.3km s-min=1.7km az=106.0.
NNC Event type se. Error ellipse: s-maj=53.8km s-min=4.9km az=174.0.
ISC I 11 12 18 45.6–1.1 42.05N–.03 72.07E–.03 8–10 72 0-10
SOME I 11 12 18 45.3 42.08N 72.10E 0 **¶16425081**
KRNET I 11 12 18 45.7–.10 42.05N 72.08E 16 2.8b
NNC I 11 12 18 51.2–1.1 42.24N 72.30E 7–6 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.6km s-min=7.5km az=162.0.
NNC I 13 16 45 49.1–18 39.66N 72.42E 0 3.9b,3.5
¶600818913

NNC Event type se. Error ellipse: s-maj=138.8km s-min=105.1km az=169.0.
KRNET I 18 00 34 39.8–.10 39.50N 72.83E 2.0b
¶601989535

ISC I 18 08 45 44.4–1.2 41.59N–.04 73.39E–.02 8–10 102 1-12
KRNET I 18 08 45 43.0–.10 41.48N 73.33E 19 3.9b **¶16445655**
NNC I 18 08 45 44.9–.88 41.64N 73.30E 0 3.9b,3.6
SOME I 18 08 45 44.5 41.55N 73.30E 15 3.9b,3.6
KNET I 18 08 45 46.2–.61 41.65N 73.44E 17–3 3.4L,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.4km s-min=2.5km az=11.0.
KNET Error ellipse: s-maj=4.2km s-min=4.0km az=142.0.
ISC I 18 19 23 43.6–1.2 40.50N–.06 72.29E–.03 10 30 1-4
KRNET I 18 19 23 41.5–.10 40.46N 72.34E 1 2.4b **¶16445676**
SOME I 18 19 23 42.0 40.37N 72.17E 10 2.4b
NNC I 18 19 23 44.3–2.6 40.57N 72.25E 0 2.6b,2.2
ISCJB I 18 19 23 48.2–.85 40.57N–.06 72.08E–.06 10 2.6b,2.2
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC I 19 03 47 06.1–.24 39.25N–.03 72.15E–.02 33 4.9b,4.3s 694 1-152
IDC I 19 03 47 00.3–.38 39.18N 72.32E 0 4.8,4.7 **¶15938052**
BJI I 19 03 47 00.0 39.30N 72.00E 9 5.2L,5.1b
KRNET I 19 03 47 03.5–.10 39.04N 72.03E 5.7b,5.1b
ISCJB I 19 03 47 04.3–.12 39.17N–.02 72.19E–.02 33 4.9b,4.2s
SOME I 19 03 47 04.8 39.77N 72.32E 0 4.4s,4.2s
MOS I 19 03 47 04.8–1.1 39.48N 72.29E 33 5.0b,4.2s
NNC I 19 03 47 05.5–3.1 39.47N 72.22E 0 5.6b,5.4
NEIC I 19 03 47 06.5–.64 39.32N 72.25E 40–5 5.0b,5.4
ISC Event type fe.
IDC Error ellipse: s-maj=8.1km s-min=7.4km az=151.0.
ISCJB Event type fe. Error ellipse: s-maj=2.4km s-min=1.9km az=158.0.
MOS Error ellipse: s-maj=6.2km s-min=4.1km az=112.0.
NNC Event type se. Error ellipse: s-maj=26.9km s-min=16.7km az=20.0.
NEIC Event type fe. Error ellipse: s-maj=5.8km s-min=3.9km az=175.0. Felt at Andijon, Uzbekistan.
ISC I 19 03 58 50.0–3.2 39.1N–.10 72.6E–.10 31 12 2-4
KRNET I 19 03 58 53.2–.10 39.23N 72.14E 3.2b **¶16449277**
NNC I 19 03 58 59.9–8.1 39.49N 72.62E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=58.7km s-min=50.9km az=0.0.
ISC I 19 04 54 30.2–3.2 39.1N–.20 72.54E–.06 31 31 2-4
KRNET I 19 04 54 33.0–.10 39.15N 72.13E 3.1b **¶16449278**
NNC I 19 04 54 41.6–6.8 39.59N 72.67E 0 3.5b,3.2

ISC Event type se.
NNC Event type se. Error ellipse: s-maj=62.4km s-min=47.8km az=148.0.
KRNET I 20 12 26 04.3–.10 41.30N 71.60E 4 1.7b
¶601091822
ISC I 20 12 35 12.7–1.0 42.79N–.04 71.06E–.03 9–16 46 0-3
SOME I 20 12 35 12.3 42.77N 71.07E 0 **¶16449326**
NNC I 20 12 35 12.3–.28 42.79N 71.06E 0 2.7b,2.7
KRNET I 20 12 35 13.6–.10 42.72N 71.15E 11 2.4b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.4km s-min=0.6km az=27.0.
ISC I 20 12 47 00.5–1.8 40.14N–.09 72.12E–.06 7–12 16 1-4
KRNET I 20 12 47 03.5–.10 40.18N 72.05E 2.4b **¶601989702**
NNC I 20 12 47 06.7–4.3 40.48N 72.24E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.3km s-min=18.0km az=171.0.
ISC I 20 13 21 23.9–3.2 39.1N–.20 72.05E–.08 10 25 3-13
KRNET I 20 13 21 22.0–.10 38.90N 71.87E 3.3b **¶16449330**
NNC I 20 13 21 26.2–2.7 39.33N 72.27E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.2km s-min=13.9km az=3.0.
ISC I 20 18 04 31.6–2.0 40.85N–.07 73.32E–.03 2–16 49 1-4
NNC I 20 18 04 32.0–2.9 40.85N 73.29E 0 2.7b,2.3 **¶601989717**
SOME I 20 18 04 32.6 40.83N 73.27E 15 2.7b,2.3
KRNET I 20 18 04 34.0–.10 40.98N 73.31E 18 2.3b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.6km s-min=10.6km az=2.0.
ISC I 20 19 11 05.0–1.8 39.20N–.09 72.41E–.03 10 66 1-15
SOME I 20 19 11 04.8 39.23N 72.33E 10 **¶16449336**
KRNET I 20 19 11 08.1–.10 39.18N 72.11E 3.6b
NNC I 20 19 11 10.0–1.1 39.31N 72.10E 0 3.9b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.4km s-min=6.4km az=11.0.
ISC I 20 22 03 22.5–3.1 39.0N–.20 72.04E–.05 10 28 1-6
SOME I 20 22 03 19.7 39.42N 72.03E 10 **¶16449339**
KRNET I 20 22 03 23.6–.10 39.06N 72.03E 2.9b
NNC I 20 22 03 25.3–1.4 39.34N 72.09E 0–4 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.1km s-min=8.1km az=11.0.
ISC I 21 05 07 57.5–1.2 42.75N–.06 71.04E–.02 6–14 44 1-3
NNC I 21 05 07 57.4–.66 42.77N 71.04E 0 2.8b,2.5 **¶16451879**
SOME I 21 05 07 57.6 42.77N 71.03E 0 2.8b,2.5
KRNET I 21 05 07 59.2–.10 42.66N 71.14E 10 2.4b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.0km s-min=1.2km az=28.0.
NNC I 22 02 25 28.7–4.0 39.52N 72.37E 0 3.1b,2.8
¶16451915
NNC Event type se. Error ellipse: s-maj=30.7km s-min=23.2km az=11.0.
KRNET I 25 03 31 47.3–.10 42.16N 73.65E 13 1.9b
¶601091876
ISC I 27 03 34 36.9–1.3 41.56N–.03 71.43E–.03 6–11 44 0-5
NNC I 27 03 34 37.8–1.6 41.61N 71.41E 0 3.0b,2.8 **¶16464718**
KRNET I 27 03 34 37.8–.10 41.55N 71.50E 10 2.2b,2.8
SOME I 27 03 34 38.2 41.60N 71.33E 20 2.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.3km s-min=7.8km az=168.0.
KRNET I 27 19 24 17.0–.10 40.66N 73.31E 6 1.7b
¶601091899
KRNET I 28 01 39 54.3–.10 42.32N 73.45E 17 1.5b
¶600950526
ISC I 29 09 37 32.2–1.6 40.49N–.05 73.53E–.03 0–14 40 1-3
KRNET I 29 09 37 36.0–.10 40.68N 73.52E 28 2.2b **¶601990289**
NNC I 29 09 37 37.0–5.5 40.61N 73.39E 0 2.6b,2.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=40.8km s-min=26.0km az=0.0.
ISC I 29 17 25 52.1–2.2 40.60N–.08 73.30E–.07 1–12 18 0-3
KRNET I 29 17 25 49.3–.10 40.52N 73.34E 13 1.8b **¶600950543**
NNC I 29 17 26 00.5–5.4 40.92N 73.33E 0 2.2b,1.9
ISC Event type ke.
NNC Event type se. Error ellipse: s-maj=39.2km s-min=29.3km az=18.0.
ISC I 30 15 39 52.4–1.2 41.64N–.04 74.80E–.02 10–16 102 0-9
KRNET I 30 15 39 53.7–.10 41.74N 74.79E 15 3.1b **¶16484107**
KNET I 30 15 39 53.5–.66 41.72N 74.78E 12–4 2.6L
SOME I 30 15 39 54.6 41.73N 74.82E 5 2.6L
NNC I 30 15 39 55.8–1.8 41.83N 74.76E 0 4.1,3.4b
ISC Event type se.
KNET Error ellipse: s-maj=5.0km s-min=2.7km az=5.0.
NNC Event type se. Error ellipse: s-maj=23.0km s-min=5.1km az=176.0.
ISC I 31 01 22 34.6–1.2 40.87N–.03 72.82E–.03 0–11 35 0-3
KRNET I 31 01 22 33.8–.10 40.87N 72.93E 9 4.0b **¶16487806**
SOME I 31 01 22 36.4 40.97N 72.88E 5 4.0b
NNC I 31 01 22 37.1–.90 40.93N 72.66E 12–17 2.8b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.3km s-min=5.1km az=45.0.
ISC I 31 01 35 54.0–1.2 42.20N–.04 71.72E–.02 2–11 32 0-3
SOME I 31 01 35 54.0 42.12N 71.75E 0 **¶16487807**
KRNET I 31 01 35 54.6–.10 42.16N 71.82E 8 2.0b
NNC I 31 01 35 55.0–.74 42.44N 71.67E 0 2.8b,2.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.8km s-min=2.4km az=11.0.
ISC I 31 19 53 34.1–1.4 40.11N–.06 72.95E–.03 10 54 2-5
SOME I 31 19 53 35.5 40.23N 72.75E 0 **¶16487849**
KRNET I 31 19 53 35.8–.10 40.20N 72.79E 25 3.0b
NNC I 31 19 53 42.5–2.4 40.49N 72.79E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.3km s-min=14.3km az=5.0.
ISC II 01 22 37 15.9–1.2 42.93N–.03 72.42E–.02 3–11 63 0-6
SOME II 01 22 37 16.9 42.97N 72.42E 10 **¶16487894**
NNC II 01 22 37 16.6–1.1 42.88N 72.42E 0 2.6b,2.4
KRNET II 01 22 37 18.1–.10 42.85N 72.55E 7 2.4b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.3km s-min=6.1km az=84.0.
ISC II 02 12 11 56.0–1.7 39.37N–.07 72.47E–.04 12–11 3.7b 62 1-78
IDC II 02 12 11 54.7–1.6 39.37N 72.40E 0 3.6,3.6b **¶16397458**
KRNET II 02 12 11 57.2–.10 39.54N 72.52E 10 3.5b,3.6b
NNC II 02 12 12 01.0–2.4 39.77N 72.65E 0 4.0b,3.7
BJI II 02 12 12 01.7 39.70N 72.60E 15 3.7b,3.6L
ISC Event type se.
IDC Error ellipse: s-maj=28.3km s-min=17.8km az=156.0.
NNC Event type se. Error ellipse: s-maj=17.7km s-min=14.0km az=9.0.
ISC II 04 05 36 00.4–2.9 41.02N–.08 71.55E–.05 3–24 15 1-3
SOME II 04 05 35 59.1 40.97N 71.53E 0 **¶16498935**
NNC II 04 05 36 00.7–2.2 41.00N 71.61E 0 2.5b,2.3
KRNET II 04 05 36 01.6–.10 41.07N 71.47E 18 1.8b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.3km s-min=10.7km az=141.0.
ISC II 07 21 16 10.0–1.3 41.04N–.04 74.98E–.02 11–10 78 1-5
SOME II 07 21 16 07.6 40.85N 74.95E 5 **¶16019661**
NNC II 07 21 16 08.9–1.6 40.92N 74.88E 0 3.3b,2.9
KRNET II 07 21 16 10.5–.10 41.10N 74.98E 10 2.4b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.7km s-min=7.3km az=134.0.
ISC II 08 02 20 06.9–1.2 41.77N–.04 72.50E–.02 6–11 46 0-3
SOME II 08 02 20 06.6 41.67N 72.48E 20 **¶16501915**
KRNET II 08 02 20 08.4–.10 41.81N 72.53E 17 2.3b
NNC II 08 02 20 08.1–1.1 41.82N 72.55E 0 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.9km s-min=4.9km az=34.0.
ISC II 08 06 55 48.4–1.1 41.99N–.04 72.50E–.02 11–11 33 0-2
SOME II 08 06 55 48.3 41.98N 72.52E 10 **¶16501919**
KRNET II 08 06 55 48.3–.10 41.96N 72.49E 20 1.9b
NNC II 08 06 55 48.5–1.2 42.02N 72.50E 10–30 2.7b,2.1

ISC Event type se.
NNC Event type se. Error ellipse: s-maj=24.8km s-min=7.2km az=7.0.
ISC II 08 07 09 38.3–1.9 39.15N–.09 72.29E–.06 33 23 1-13
KRNET II 08 07 09 40.0–.10 39.23N 72.01E 2.9b **¶16501920**
NNC II 08 07 09 43.5–2.0 39.44N 71.97E 2–12 3.8b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.8km s-min=5.2km az=135.0.
ISC II 09 15 05 07.4–1.7 41.58N–.10 72.48E–.03 11–12 28 0-3
KRNET II 09 15 05 08.1–.10 41.60N 72.47E 18 2.2b **¶16506055**
NNC II 09 15 05 10.0–7.6 41.59N 72.45E 0 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=78.8km s-min=17.1km az=5.0.
ISC II 11 14 37 17.7–2.9 39.57N–.09 72.27E–.07 4–20 13 1-4
KRNET II 11 14 37 16.0–.10 39.50N 72.34E 2.0b **¶16509533**
NNC II 11 14 37 18.1–7.2 39.38N 72.43E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=82.3km s-min=25.9km az=139.0.
ISC II 13 03 28 13.2–1.0 41.63N–.04 71.38E–.02 14–7 3.7b 94 0-84
NNC II 13 03 28 10.7–1.6 41.55N 71.38E 0 3.8b,3.5 **¶16398090**
KRNET II 13 03 28 11.9–.10 41.61N 71.43E 13 3.4b,3.5
SOME II 13 03 28 13.8 41.73N 71.42E 5 3.4b,3.5
IDC II 13 03 28 13.5–3.4 41.50N 71.39E 21–24 3.6b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.7km s-min=9.8km az=15.0.
IDC Error ellipse: s-maj=15.8km s-min=10.5km az=177.0.
ISC II 13 10 15 37.0–1.2 41.36N–.04 72.89E–.02 8–11 73 1-7
KRNET II 13 10 15 37.9–.10 41.52N 72.84E 17 2.9b **¶16512130**
SOME II 13 10 15 37.5 41.32N 72.92E 15 2.9b
NNC II 13 10 15 40.5–1.8 41.41N 72.92E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.2km s-min=10.2km az=157.0.
ISC II 13 11 42 09.8–1.3 41.65N–.04 73.27E–.02 1–11 81 0-7
SOME II 13 11 42 09.1 41.53N 73.22E 15 **¶16512134**
KRNET II 13 11 42 10.0–.10 41.64N 73.26E 19 3.1b
NNC II 13 11 42 10.4–1.2 41.64N 73.27E 0 3.7b,3.4
KNET II 13 11 42 11.1–.64 41.68N 73.31E 15–3 2.8L,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.9km s-min=6.2km az=146.0.
KNET Error ellipse: s-maj=5.1km s-min=3.9km az=144.0.
ISC II 13 17 29 20.1–1.3 41.48N–.04 72.89E–.02 1–13 71 0-7
SOME II 13 17 29 19.5 41.45N 72.87E 0 **¶16512141**
KRNET II 13 17 29 20.3–.10 41.46N 72.88E 15 2.5b
NNC II 13 17 29 22.7–1.9 41.42N 72.86E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.3km s-min=11.2km az=158.0.
ISC II 14 00 23 27.0–1.1 41.40N–.03 72.09E–.03 12–11 49 0-4
SOME II 14 00 23 25.9 41.40N 72.05E 0 **¶16512148**
KRNET II 14 00 23 27.6–.10 41.42N 72.10E 18 2.3b
NNC II 14 00 23 28.1–1.1 41.45N 72.13E 0 3.3b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.5km s-min=8.3km az=144.0.
ISC II 16 02 30 20.1–1.8 39.42N–.09 72.81E–.05 10 40 2-6
ISCJB II 16 02 30 18.7–.95 39.31N–.06 72.83E–.05 10 **¶16524995**
KRNET II 16 02 30 20.3–.10 39.58N 72.67E 3.0b
NNC II 16 02 30 20.0–1.5 39.44N 72.73E 0 3.8b,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.8km s-min=5.3km az=158.2.
NNC Event type se. Error ellipse: s-maj=15.8km s-min=7.7km az=140.0.
ISC II 16 06 39 27.5–1.4 40.51N–.05 72.45E–.03 3–14 31 0-4
KRNET II 16 06 39 27.2–.10 40.49N 72.44E 8 2.4b **¶16524999**
SOME II 16 06 39 30.9 40.65N 72.48E 5 2.4b
NNC II 16 06 39 33.5–7.3 40.71N 72.60E 0 2.8b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=61.4km s-min=23.9km az=0.0.
ISC II 16 15 37 07.6–.98 42.24N–.03 73.11E–.02 11–9 87 0-8
KRNET II 16 15 37 07.2–.10 42.27N 73.08E 12 2.4b **¶16525022**
SOME II 16 15 37 08.5 42.25N 73.08E 15 2.4b
NNC II 16 15 37 09.2–1.1 42.31N 73.17E 0 2.7b,2.6
KNET II 16 15 37 09.8–.48 42.32N 73.23E 0 2.2L,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.7km s-min=3.5km az=175.0.
KNET Error ellipse: s-maj=3.5km s-min=2.3km az=81.0.
ISC II 17 15 47 07.9–1.9 39.84N–.07 72.77E–.05 5–13 40 1-13
KRNET II 17 15 47 05.5–.10 39.79N 72.90E 9 3.2b **¶16529488**
NNC II 17 15 47 08.5–2.1 39.77N 72.88E 0 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=12.1km az=151.0.
ISC II 18 06 52 14.5–1.1 42.74N–.04 72.29E–.02 9–10 64 0-3
NNC II 18 06 52 14.9–.74 42.69N 72.24E 0 3.0b,2.9 **¶16529504**
SOME II 18 06 52 15.0 42.85N 72.30E 5 3.0b,2.9
KRNET II 18 06 52 15.5–.10 42.68N 72.31E 16 3.0b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.2km s-min=3.7km az=35.0.
ISC II 18 09 22 03.8–2.1 41.03N–.05 69.70E–.07 16–15 24 1-5
KRNET II 18 09 21 57.1–.10 40.92N 68.99E 2.9b **¶16529522**
SOME II 18 09 21 59.9 40.90N 69.65E 5 2.9b
NNC II 18 09 22 03.5–4.9 41.04N 69.69E 0 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=42.6km s-min=25.1km az=16.0.
ISC II 18 22 15 22.3–1.1 41.10N–.02 72.71E–.02 7–7 4.0b,3.7s 146 1-94
IDC II 18 22 15 20.6–.68 40.94N 72.74E 0 4.0,3.9 **¶16301869**
ISCJB II 18 22 15 23.0–1.0 41.08N–.02 72.53E–.03 15–6 4.0b,3.9s
KRNET II 18 22 15 23.8–.10 41.13N 72.81E 14 4.5b,3.9s
SOME II 18 22 15 23.4 41.15N 72.77E 5 3.4s,3.9s
BJI II 18 22 15 25.0 41.20N 72.60E 30 4.0b,3.9s
NEIC II 18 22 15 26.5–1.3 41.04N 72.62E 40–10 4.2b,3.9s
NNC II 18 22 15 27.2–1.6 41.39N 72.70E 0 4.4b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=14.4km s-min=9.1km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.4km az=36.9.
NEIC Event type se. Error ellipse: s-maj=13.4km s-min=8.1km az=176.0.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=6.7km az=2.0.
ISC II 19 02 52 51.6–1.9 39.85N–.06 72.89E–.04 1–14 38 1-4
KRNET II 19 02 52 52.4–.10 39.90N 72.67E 10 3.2b **¶16531905**
NNC II 19 02 52 54.6–6.6 39.97N 72.87E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=81.2km s-min=31.2km az=143.0.
ISC II 19 12 28 34.5–1.7 40.41N–.07 72.14E–.07 10 9 2-3
SOME II 19 12 28 34.5 40.37N 72.07E 0 **¶16531935**
NNC II 19 12 28 35.4–1.3 40.46N 71.90E 0 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.0km s-min=7.5km az=131.0.
ISC II 20 00 14 09.0–2.2 39.3N–.10 72.38E–.07 10 12 1-4
KRNET II 20 00 14 11.7–.10 39.46N 72.27E 2.4b **¶16531949**
ISCJB II 20 00 14 13.3–1.5 39.36N–.08 72.29E–.08 10 2.4b
NNC II 20 00 14 14.1–.89 39.32N 72.19E 0 3.2b,2.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=7.1km az=153.8.
NNC Event type se. Error ellipse: s-maj=9.4km s-min=4.3km az=135.0.
ISC II 20 02 48 16.1–2.1 39.2N–.10 72.38E–.08 10 13 1-4
KRNET II 20 02 48 16.6–.10 39.21N 72.38E 2.4b **¶16531960**
ISCJB II 20 02 48 21.6–1.5 39.42N–.08 72.32E–.08 10 2.4b
NNC II 20 02 48 25.7–3.0 39.56N 72.20E 0 3.3b,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=7.3km az=153.8.
NNC Event type se. Error ellipse: s-maj=35.5km s-min=11.8km az=138.0.
ISC II 22 23 51 10.0–1.4 40.18N–.05 73.50E–.03 15–11 43 1-5
NNC II 22 23 51 10.9–2.4 40.13N 73.44E 0 2.9b,2.6 **¶16535993**
SOME II 22 23 51 12.8 40.22N 73.47E 5 2.9b,2.6
KRNET II 22 23 51 12.1–.10 40.18N 73.48E 14 2.5b,2.6
ISC Event type se.

NNC Event type se. Error ellipse: s-maj=32.0km s-min=7.8km az=139.0.
KRNET II 23 15 09 26.0–.10 41.85N 71.80E 21 2.5b ¶16545019

ISC II 25 03 36 47.0–.98 41.94N–.03 72.24E–.02 11–9 83 0-11
KRNET II 25 03 36 46.8–.10 41.97N 72.17E 14 3.3b ¶16552802
NNC II 25 03 36 48.5–1.1 41.88N 72.03E 0 3.7b,3.5
SOME II 25 03 36 52.2 42.30N 72.27E 5 3.7b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.1km s-min=6.9km az=178.0.
ISC II 26 05 22 23.0–.97 39.53N–.07 72.08E–.05 33 3.9b 30 1-78
IDC II 26 05 22 16.0–1.9 39.16N 72.42E 0 4.1,4.1s ¶16398966
KRNET II 26 05 22 20.1–.10 39.46N 71.90E 3.1b,4.1s
NNC II 26 05 22 22.1–1.5 39.51N 71.95E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=33.3km s-min=13.5km az=144.0.
NNC Event type se. Error ellipse: s-maj=15.7km s-min=9.4km az=139.0.
ISC III 01 00 47 33.9–1.3 41.59N–.05 71.37E–.04 9–13 23 0-3
KRNET III 01 00 47 35.3–.10 41.52N 71.51E 11 2.1b ¶16552885
NNC III 01 00 47 36.7–2.1 41.68N 71.38E 0 2.8b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.3km s-min=15.0km az=103.0.
ISC III 02 19 29 44.8–1.3 40.42N–.04 72.04E–.03 1–12 31 1-12
KRNET III 02 19 29 45.2–.10 40.35N 72.05E 3 2.9b ¶16553022
SOME III 02 19 29 48.0 40.48N 71.92E 5 2.9b
NNC III 02 19 29 48.1–3.9 40.39N 72.08E 3–22 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.5km s-min=14.9km az=142.0.
ISC III 03 08 15 21.8–1.6 42.54N–.05 71.54E–.04 1–17 22 1-3
KRNET III 03 08 15 23.4–.10 42.51N 71.59E 18 2.0b ¶16553041
NNC III 03 08 15 24.6–1.5 42.59N 71.47E 0 3.0b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.1km s-min=6.9km az=15.0.
ISC III 03 13 28 51.6–1.1 41.12N–.03 73.11E–.02 5–10 67 1-7
KRNET III 03 13 28 52.2–.10 41.11N 73.00E 21 2.5b ¶16553063
SOME III 03 13 28 53.6 41.20N 72.98E 5 2.5b
NNC III 03 13 28 54.8–2.3 41.06N 73.17E 0 3.5b,3.1
KNET III 03 13 28 55.2–.30 41.24N 73.19E 5–1 2.4L,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.4km s-min=11.4km az=157.0.
KNET Error ellipse: s-maj=3.2km s-min=1.8km az=118.0.
ISC III 04 10 47 40.9–3.3 41.1N–.20 71.12E–.05 11–21 12 1-4
SOME III 04 10 47 43.2 41.23N 71.10E 0 ¶16554946
NNC III 04 10 47 47.0–5.0 41.35N 71.18E 0 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=35.6km s-min=17.7km az=7.0.
ISC III 05 10 09 42.0–1.4 41.56N–.05 72.48E–.03 4–11 37 0-4
KRNET III 05 10 09 41.5–.10 41.53N 72.49E 20 2.2b ¶16557102
NNC III 05 10 09 41.6–.57 41.56N 72.44E 0 3.2b,2.7
SOME III 05 10 09 41.2 41.50N 72.47E 5 3.2b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=5.5km s-min=3.1km az=106.0.
ISC III 06 10 09 14.4–1.3 40.44N–.05 72.77E–.05 10 32 0-3
SOME III 06 10 09 12.4 40.38N 72.57E 5 ¶16557141
KRNET III 06 10 09 13.6–.10 40.45N 72.76E 10 2.9b
NNC III 06 10 09 14.6–1.6 40.41N 72.60E 0 3.0b,2.6
ISCJB III 06 10 09 16.9–1.0 40.41N–.06 72.68E–.06 10 3.0b,2.6
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 06 22 52 43.2–1.2 41.66N–.03 74.85E–.02 3–11 105 0-9
KNET III 06 22 52 43.4–.60 41.70N 74.86E 16–2 2.3L ¶16557168
KRNET III 06 22 52 43.1–.10 41.69N 74.86E 12 2.8b
NNC III 06 22 52 44.6–.74 41.75N 74.86E 0 3.4b,3.0
SOME III 06 22 52 44.0 41.72N 74.87E 10 3.4b,3.0
ISC Event type se.
KNET Error ellipse: s-maj=4.4km s-min=2.0km az=3.0.
NNC Event type se. Error ellipse: s-maj=4.5km s-min=3.7km az=175.0.
ISC III 07 21 16 01.6–1.1 39.85N–.08 72.25E–.03 10 34 1-4
KRNET III 07 21 16 00.6–.10 40.02N 72.28E 6 2.8b ¶16558805
ISCJB III 07 21 16 01.0–.80 39.85N–.05 72.21E–.05 10 2.8b
NNC III 07 21 16 01.3–1.2 40.00N 72.33E 0 3.2b,2.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.9km az=169.2.
NNC Event type se. Error ellipse: s-maj=11.9km s-min=4.8km az=19.0.
ISC III 10 16 07 37.0–1.2 41.84N–.03 72.57E–.02 2–11 75 0-5
SOME III 10 16 07 34.8 41.70N 72.48E 0 ¶16577603
KRNET III 10 16 07 36.7–.10 41.84N 72.53E 19 2.9b
NNC III 10 16 07 38.1–2.0 41.90N 72.50E 0–13 3.6b,3.0
KNET III 10 16 07 38.8–.59 41.88N 72.65E 10–3 2.8L,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.7km s-min=13.6km az=146.0.
KNET Error ellipse: s-maj=5.0km s-min=3.5km az=177.0.
ISC III 12 10 33 54.6–1.3 41.8N–.10 72.25E–.04 8–19 15 0-3
NNC III 12 10 33 54.5–1.5 41.76N 72.23E 0 2.6b,2.2 ¶16587430
KRNET III 12 10 33 55.0–.10 41.78N 72.23E 15 2.6b,2.2
ISCJB III 12 10 33 55.2–.84 41.82N–.07 72.20E–.06 6–9 2.6b,2.2
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 13 13 25 24.3–1.1 41.27N–.03 74.70E–.02 17–9 80 1-7
SOME III 13 13 25 24.7 41.30N 74.62E 0 ¶16591690
KRNET III 13 13 25 24.3–.10 41.28N 74.68E 16 3.4b
NNC III 13 13 25 25.6–1.5 41.26N 74.65E 0 4.1b,3.8
KNET III 13 13 25 26.0–.69 41.35N 74.67E 12–4 3.0L,3.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.6km s-min=10.8km az=125.0.
KNET Error ellipse: s-maj=5.0km s-min=3.6km az=1.0.
ISC III 13 15 58 15.3–1.1 41.39N–.02 73.13E–.02 11–9 86 1-75
IDC III 13 15 58 12.6–2.6 41.11N 73.32E 0 3.8,3.7 ¶16477542
SOME III 13 15 58 15.5 41.45N 72.98E 0 3.8,3.7
KRNET III 13 15 58 15.0–.10 41.36N 73.12E 14 3.6b,3.7
NNC III 13 15 58 16.3–.64 41.42N 73.01E 0 4.0b,3.8
KNET III 13 15 58 16.6–.64 41.39N 73.26E 0 3.3L,3.8
ISC Event type se.
IDC Error ellipse: s-maj=46.6km s-min=12.2km az=138.0.
NNC Event type se. Error ellipse: s-maj=7.0km s-min=4.3km az=83.0.
KNET Error ellipse: s-maj=5.8km s-min=4.2km az=136.0.
ISC III 13 18 46 08.4–1.2 40.72N–.03 73.28E–.03 3–16 45 0-4
SOME III 13 18 46 08.2 40.67N 73.17E 10 ¶16591696
NNC III 13 18 46 08.7–.76 40.65N 73.28E 0 3.0b,2.5
KRNET III 13 18 46 09.1–.10 40.72N 73.26E 17 2.5b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.0km s-min=3.9km az=80.0.
ISC III 14 08 43 33.3–1.4 41.68N–.08 72.47E–.03 9–11 24 0-3
ISCJB III 14 08 43 33.9–1.1 41.67N–.06 72.42E–.04 7–6 ¶16591710
KRNET III 14 08 43 33.6–.10 41.66N 72.44E 18 2.0b
SOME III 14 08 43 34.4 41.68N 72.35E 15 2.0b
NNC III 14 08 43 36.2–2.5 41.77N 72.44E 0 2.8b,2.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=4.6km az=176.1.
NNC Event type se. Error ellipse: s-maj=16.3km s-min=11.4km az=52.0.
ISC III 16 04 09 23.7–1.2 41.65N–.03 73.09E–.02 3–9 97 1-68
IDC III 16 04 09 21.4–2.2 41.34N 73.04E 0 3.7b,3.6 ¶16478455
SOME III 16 04 09 23.4 41.63N 73.05E 5 3.7b,3.6
KRNET III 16 04 09 23.8–.10 41.68N 73.15E 16 4.0b,3.6
KNET III 16 04 09 27.0–.62 41.76N 73.25E 17–3 3.6L,3.6
NNC III 16 04 09 27.5–.94 41.94N 73.04E 0 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=36.1km s-min=20.7km az=149.0.
KNET Error ellipse: s-maj=4.5km s-min=3.7km az=93.0.
NNC Event type se. Error ellipse: s-maj=10.5km s-min=3.2km az=173.0.

KNET III 18 22 02 09.8–.42 42.72N 74.92E 10–3 0.8L ¶601783543

KNET Error ellipse: s-maj=2.2km s-min=1.5km az=74.0.
ISC III 19 04 50 50.2–1.0 41.74N–.03 75.07E–.02 16–8 89 0-7
KRNET III 19 04 50 50.3–.10 41.76N 75.06E 17 2.7b ¶16630796
KNET III 19 04 50 50.6–.56 41.78N 75.10E 20–2 2.2L
SOME III 19 04 50 51.0 41.75N 75.08E 10 2.2L
NNC III 19 04 50 51.2–.85 41.82N 75.06E 0 2.9b,2.8
ISC Event type se.
KNET Error ellipse: s-maj=4.6km s-min=2.4km az=176.0.
NNC Event type se. Error ellipse: s-maj=5.1km s-min=3.0km az=3.0.
ISC III 20 17 45 21.7–1.4 40.65N–.04 73.39E–.03 3–14 32 1-3
KRNET III 20 17 45 21.2–.10 40.64N 73.37E 13 2.7b ¶16633184
SOME III 20 17 45 22.9 40.67N 73.35E 15 2.7b
NNC III 20 17 45 24.1–1.6 40.56N 73.57E 0 2.7b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=38.0km s-min=8.6km az=97.0.
ISC III 23 12 00 46.6–1.4 41.35N–.05 71.00E–.06 18–5 20 1-3
NNC III 23 12 00 43.8–2.4 41.14N 71.14E 0 2.6b,2.3 ¶16647815
KRNET III 23 12 00 44.1–.10 41.45N 70.74E 13 2.2b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=10.2km az=179.0.
ISC III 23 18 51 24.6–.87 41.89N–.03 72.04E–.02 9–6 98 0-15
IDC III 23 18 51 22.2–2.0 41.72N 71.97E 0 3.7,3.7 ¶16480490
KRNET III 23 18 51 23.8–.10 41.88N 72.03E 20 3.7b,3.7
SOME III 23 18 51 24.5 41.80N 72.05E 15 3.7b,3.7
NNC III 23 18 51 24.9–.67 41.92N 72.00E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=15.0km az=4.0.
NNC Event type se. Error ellipse: s-maj=4.6km s-min=3.9km az=136.0.
ISC III 25 10 21 19.1–.85 40.17N–.03 73.06E–.02 19–3 4.5b,4.0s 274 0-152
IDC III 25 10 21 16.2–.57 40.19N 73.19E 0 4.3,4.2 ¶16359668
NNC III 25 10 21 17.0–.80 40.18N 73.02E 0 4.7b,4.5
KRNET III 25 10 21 17.3–.10 40.29N 73.13E 13 4.6b,4.5
ISCJB III 25 10 21 17.8–.63 40.06N–.02 73.05E–.03 25–4 4.3b,4.1s
SOME III 25 10 21 17.8 40.33N 73.10E 5 3.8s,4.1s
BJI III 25 10 21 20.7 40.35N 73.04E 45 4.7b,4.6b
MOS III 25 10 21 21.8–1.5 40.32N 73.06E 50 4.6b,4.6b
NEIC III 25 10 21 23.1–.89 40.36N 73.08E 44–8 4.7b,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=12.0km s-min=10.0km az=153.0.
NNC Event type se. Error ellipse: s-maj=9.2km s-min=2.2km az=44.0.
ISCJB Event type se. Error ellipse: s-maj=3.5km s-min=2.7km az=179.6.
MOS Error ellipse: s-maj=8.1km s-min=5.0km az=87.0.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.9km az=159.0.
ISC III 29 05 51 55.5–1.1 39.35N–.07 72.43E–.03 10 3.6b 75 1-78
KRNET III 29 05 51 54.1–.10 39.31N 72.29E 3.7b ¶16475624
SOME III 29 05 51 56.8 39.38N 72.45E 0 3.7b
NNC III 29 05 51 56.5–2.9 39.25N 72.42E 0 4.0b,3.8
IDC III 29 05 51 58.0–1.5 39.46N 72.54E 0 3.6,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=10.2km az=169.0.
IDC Error ellipse: s-maj=26.5km s-min=15.6km az=144.0.
ISC III 29 23 43 21.3–2.0 39.52N–.10 72.53E–.04 10 60 1-5
KRNET III 29 23 43 13.3–.10 39.25N 72.34E 3.5b ¶16684689
SOME III 29 23 43 15.2 39.55N 72.23E 0 3.5b
NNC III 29 23 43 16.0–3.9 39.23N 72.48E 0 3.9b,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.4km s-min=14.7km az=174.0.
ISC IV 04 11 28 09.2–.89 42.18N–.02 74.38E–.01 18–8 94 0-4
KNET IV 04 11 28 09.2–.43 42.19N 74.39E 17–2 2.6L ¶601092357
KRNET IV 04 11 28 09.3–.10 42.18N 74.39E 20 2.9b
SOME IV 04 11 28 10.2 42.18N 74.35E 10 2.9b
ISC Event type ke.
KNET Error ellipse: s-maj=3.8km s-min=2.4km az=167.0.
ISC IV 05 23 00 14.5–.67 40.20N–.04 72.74E–.03 10 3.7b 79 1-77
IDC IV 05 23 00 12.2–2.6 40.15N 72.95E 0 3.8,3.7 ¶16506208
NNC IV 05 23 00 13.0–.64 40.16N 72.77E 0 3.8b,3.4
KRNET IV 05 23 00 12.5–.10 40.17N 72.76E 14 3.4b,3.4
SOME IV 05 23 00 17.2 41.13N 72.05E 0 3.4b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=55.8km s-min=12.6km az=136.0.
NNC Event type se. Error ellipse: s-maj=8.4km s-min=2.0km az=33.0.
ISC IV 06 04 08 02.7–1.2 40.25N–.03 72.87E–.02 7–9 3.5b 68 1-77
IDC IV 06 04 08 01.3–1.7 40.09N 72.78E 0 3.6,3.5 ¶16705758
KRNET IV 06 04 08 02.8–.10 40.20N 72.81E 9 3.6b,3.5
NNC IV 06 04 08 03.9–1.7 40.20N 72.84E 0 3.8b,3.4
SOME IV 06 04 08 05.1 40.25N 72.83E 10 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=30.0km s-min=13.0km az=146.0.
NNC Event type se. Error ellipse: s-maj=20.0km s-min=5.3km az=39.0.
ISC IV 06 16 41 00.6–1.5 40.54N–.04 72.40E–.03 5–13 35 1-6
KRNET IV 06 16 41 00.0–.10 40.56N 72.33E 23 2.5b ¶16717003
NNC IV 06 16 41 02.6–1.5 40.49N 72.40E 0 3.4b,3.0
SOME IV 06 16 41 05.4 40.80N 72.18E 5 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.6km s-min=7.7km az=45.0.
ISC IV 08 07 33 37.7–2.1 40.59N–.04 72.05E–.03 22–8 26 1-4
SOME IV 08 07 33 35.3 40.47N 71.98E 20 ¶16719601
NNC IV 08 07 33 36.7–1.6 40.62N 72.14E 0 2.6b,2.4
KRNET IV 08 07 33 36.2–.10 40.59N 72.07E 21 2.2b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.7km s-min=4.8km az=56.0.
ISC IV 09 12 30 25.9–.79 42.05N–.02 74.78E–.01 18–3 4.4b,3.9s 281 0-154
IDC IV 09 12 30 22.8–.45 41.92N 74.81E 0 4.5,4.4 ¶16506260
KNET IV 09 12 30 24.8–.38 42.06N 74.83E 18–2 4.7L,4.4
KRNET IV 09 12 30 24.8–.10 42.06N 74.82E 16 5.1b,4.4
BJI IV 09 12 30 24.9 42.23N 74.67E 27 4.7L,4.6b
NEIC IV 09 12 30 25.6–1.6 42.07N 74.82E 14–9 4.9b,4.6b
SOME IV 09 12 30 25.9 42.08N 74.82E 10 3.8s,4.6b
ISCJB IV 09 12 30 25.7–.34 42.01N–.02 74.74E–.02 24–2 4.3b,3.9s
NNC IV 09 12 30 25.4–1.0 42.14N 74.86E 0 5.2b,4.8
MOS IV 09 12 30 27.7–1.1 42.29N 74.74E 31 4.7b,4.8
ISC Event type fe.
IDC Error ellipse: s-maj=9.5km s-min=8.6km az=42.0.
KNET Error ellipse: s-maj=3.9km s-min=1.9km az=16.0.
NEIC Event type fe. Error ellipse: s-maj=8.3km s-min=5.3km az=172.0. Felt [III] at Bishkek.
ISCJB Event type fe. Error ellipse: s-maj=3.6km s-min=2.5km az=170.9.
NNC Event type se. Error ellipse: s-maj=9.2km s-min=4.2km az=155.0.
MOS Event type fe. Error ellipse: s-maj=7.1km s-min=4.5km az=97.3. Felt (III) at Bishkek. Moment Tensor Solution.
ISC IV 10 23 31 07.3–1.5 40.37N–.04 72.09E–.03 2–12 45 1-5
KRNET IV 10 23 31 07.6–.10 40.39N 72.13E 20 2.2b ¶16722555
SOME IV 10 23 31 08.7 40.53N 72.13E 0 2.2b
NNC IV 10 23 31 09.3–.66 40.51N 72.21E 0 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.0km s-min=2.1km az=51.0.
ISC IV 11 08 41 11.7–1.4 41.25N–.04 74.45E–.03 3–12 36 1-3
SOME IV 11 08 41 08.4 41.02N 74.47E 10 ¶16725857
KRNET IV 11 08 41 10.6–.10 41.23N 74.40E 12 2.1b
NNC IV 11 08 41 12.8–1.4 41.27N 74.31E 0 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=19.4km s-min=7.5km az=104.0.
ISC IV 14 04 36 12.8–1.2 41.93N–.03 72.31E–.02 3–12 36 0-3
KRNET IV 14 04 36 12.4–.10 41.93N 72.30E 12 2.6b ¶16852712
NNC IV 14 04 36 13.1–1.3 41.96N 72.27E 0 3.1b,2.8
SOME IV 14 04 36 13.4 41.92N 72.30E 5 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.7km s-min=6.6km az=95.0.
ISC IV 17 15 28 33.9–1.2 41.23N–.02 71.93E–.02 1–8 3.6b 99 1-76
IDC IV 17 15 28 29.9–2.1 40.88N 71.85E 0 4.1,4.1s ¶16707216

NNC IV 17 15 28 35.8–.77 41.21N 71.82E 3–4 3.9b,3.6
SOME IV 17 15 28 36.9 41.27N 71.90E 10 3.9b,3.6
KRNET IV 17 15 28 36.2–.10 41.21N 71.84E 20 3.4b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=34.0km s-min=15.4km az=169.0.
NNC Event type se. Error ellipse: s-maj=4.0km s-min=1.5km az=62.0.
ISC IV 22 23 35 12.5–1.2 41.08N–.03 71.88E–.03 2–12 55 1-5
NNC IV 22 23 35 13.6–3.0 40.99N 71.89E 0 3.3b,3.0 ¶16881746
KRNET IV 22 23 35 13.1–.10 41.07N 71.81E 18 2.6b,3.0
SOME IV 22 23 35 16.3 41.20N 71.83E 10 2.6b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.4km s-min=14.9km az=63.0.
ISC IV 24 07 48 46.2–1.1 41.08N–.03 71.83E–.04 16–10 23 1-3
KRNET IV 24 07 48 45.8–.10 41.07N 71.80E 16 1.8b ¶16884519
SOME IV 24 07 48 46.3 41.30N 72.08E 0 1.8b
NNC IV 24 07 48 48.3–2.4 41.06N 72.01E 122–29 2.5,1.1b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.0km s-min=5.9km az=67.0.
ISC IV 24 22 59 54.0–1.0 41.97N–.02 72.21E–.02 8–9 60 0-6
SOME IV 24 22 59 53.5 41.92N 72.17E 5 ¶16884544
KRNET IV 24 22 59 54.0–.10 41.94N 72.26E 9 3.1b
NNC IV 24 22 59 55.9–.81 42.02N 72.21E 0 3.7b,3.2
KNET IV 24 22 59 56.5–.57 42.03N 72.38E 0 2.5L,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=6.8km s-min=4.6km az=108.0.
KNET Error ellipse: s-maj=5.7km s-min=4.0km az=13.0.
ISC IV 25 08 11 13.5–1.3 39.59N–.05 72.79E–.02 5–8 3.6b 127 1-78
SOME IV 25 08 11 07.9 39.37N 72.80E 0 3.5s ¶16505525
BJI IV 25 08 11 07.0 39.30N 72.20E 5 4.2b,3.7s
KRNET IV 25 08 11 10.0–.10 39.38N 72.91E 15 3.7b,3.7s
NNC IV 25 08 11 12.5–1.3 39.40N 73.07E 0 4.4b,4.1
MOS IV 25 08 11 14.6–1.8 39.43N 72.83E 32 4.1b,4.1
IDC IV 25 08 11 15.9–3.1 39.36N 72.97E 38–21 3.8,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.9km s-min=6.2km az=136.0.
MOS Error ellipse: s-maj=12.5km s-min=6.2km az=91.9.
IDC Error ellipse: s-maj=30.8km s-min=14.4km az=162.0.
ISC IV 25 12 13 54.2–.41 41.09N–.02 71.66E–.02 13–2 3.9b 193 1-86
KRNET IV 25 12 13 53.4–.10 41.08N 71.60E 15 3.4b ¶16466070
NEIC IV 25 12 13 53.7–.67 41.00N 71.58E 10 4.4b
IDC IV 25 12 13 54.1–.70 40.94N 71.75E 16–2 3.9,3.9
SOME IV 25 12 13 56.1 41.10N 71.65E 10 3.0s,3.9
MOS IV 25 12 13 56.0–1.6 41.13N 71.47E 33 4.2b,3.9
NNC IV 25 12 13 57.2–1.0 41.10N 71.63E 19–5 4.4b,4.1
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=12.3km s-min=8.1km az=167.0.
IDC Error ellipse: s-maj=13.6km s-min=8.4km az=155.0.
MOS Error ellipse: s-maj=9.2km s-min=5.6km az=86.7.
NNC Event type se. Error ellipse: s-maj=6.1km s-min=3.1km az=66.0.
ISC IV 27 13 03 11.6–1.9 40.32N–.04 72.18E–.03 1–15 41 1-12
NNC IV 27 13 03 11.5–2.7 40.13N 72.07E 0 3.3b,3.2 ¶16912129
KRNET IV 27 13 03 12.8–.10 40.34N 72.14E 21 3.1b,3.2
SOME IV 27 13 03 15.8 40.47N 72.17E 20 3.1b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.8km s-min=7.5km az=38.0.
ISC V 03 07 53 54.8–1.2 40.97N–.03 73.72E–.02 5–13 64 1-7
SOME V 03 07 53 55.9 41.00N 73.72E 5 ¶16912325
KRNET V 03 07 53 55.5–.10 41.02N 73.69E 16 3.1b
NNC V 03 07 53 57.0–.49 41.00N 73.60E 0 3.6b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.4km s-min=3.0km az=93.0.
ISC V 06 18 26 51.9–1.7 39.43N–.08 72.00E–.04 3–14 25 1-4
KRNET V 06 18 26 52.3–.10 39.45N 72.02E 10 2.4b ¶16918914
NNC V 06 18 26 53.7–.97 39.62N 72.03E 0 2.9b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.5km s-min=5.0km az=170.0.
ISC V 07 01 57 07.2–1.7 39.48N–.09 72.37E–.04 2–13 17 1-4
NNC V 07 01 57 05.3–1.3 39.69N 72.05E 0 2.9b,2.7 ¶16918925
KRNET V 07 01 57 07.5–.10 39.58N 72.38E 20 2.5b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.6km s-min=6.7km az=172.0.
ISC V 10 02 50 05.2–1.4 39.74N–.06 72.65E–.04 2–12 26 1-4
KRNET V 10 02 50 04.0–.10 39.74N 72.62E 14 2.6b ¶16930261
NNC V 10 02 50 05.8–1.4 39.85N 72.66E 0 3.5b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.1km s-min=5.8km az=1.0.
ISC V 10 15 31 55.5–1.1 40.54N–.02 73.21E–.03 8–13 31 0-3
NNC V 10 15 31 54.3–1.6 40.62N 73.51E 0 3.6b,3.2 ¶16930281
KRNET V 10 15 31 55.5–.10 40.51N 73.16E 16 2.9b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=33.0km s-min=6.0km az=79.0.
ISC V 11 11 15 45.8–1.2 41.31N–.02 72.39E–.02 1–11 58 0-4
KRNET V 11 11 15 46.2–.10 41.31N 72.40E 22 3.0b ¶16930305
SOME V 11 11 15 46.2 41.33N 72.37E 10 3.0b
NNC V 11 11 15 47.2–.94 41.37N 72.51E 9–7 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=7.9km s-min=2.7km az=64.0.
ISC V 13 05 49 42.0–1.9 41.13N–.08 72.29E–.03 0–13 26 1-3
KRNET V 13 05 49 41.9–.10 41.13N 72.30E 16 2.0b ¶16946142
SOME V 13 05 49 42.6 41.12N 72.30E 5 2.0b
NNC V 13 05 49 45.0–3.1 41.22N 72.35E 0 2.5b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.8km s-min=15.7km az=10.0.
ISC V 14 23 32 58.5–1.6 40.00N–.06 72.56E–.04 6–10 39 1-13
KRNET V 14 23 32 55.5–.10 39.85N 72.65E 3 3.3b ¶16946224
NNC V 14 23 32 55.6–2.0 39.85N 72.90E 0 3.5b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.7km s-min=10.9km az=146.0.
ISC V 16 04 19 50.6–1.6 39.05N–.09 72.37E–.05 31 30 2-15
KRNET V 16 04 19 47.9–.10 39.25N 72.48E 2.6b ¶16951393
NNC V 16 04 19 50.9–2.0 39.37N 72.59E 0 3.8b,3.4
ISCJB V 16 04 19 51.4–1.2 39.11N–.06 72.53E–.06 31 3.8b,3.4
SOME V 16 04 19 57.2 39.90N 72.25E 0 3.8b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.6km s-min=11.9km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.5km az=165.8.
ISC V 17 02 32 42.0–.86 42.84N–.02 74.90E–.02 14–7 64 0-12
NNC V 17 02 32 41.2–.36 42.92N 74.86E 0 3.5b,3.4 ¶16951431
KRNET V 17 02 32 41.8–.10 42.87N 74.89E 20 3.6b,3.4
ISCJB V 17 02 32 42.1–.36 42.88N–.02 74.88E–.02 11–3 3.6b,3.4
SOME V 17 02 32 42.1 42.83N 74.90E 15 3.6b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=5.0km s-min=1.2km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.5km az=161.9.
ISC V 20 15 01 38.4–1.7 39.59N–.07 72.01E–.05 1–12 30 1-13
KRNET V 20 15 01 35.2–.10 39.41N 72.11E 3.0b ¶16988761
NNC V 20 15 01 41.0–3.8 39.41N 72.08E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=41.8km s-min=14.9km az=138.0.
ISC V 21 14 23 34.1–1.3 41.26N–.04 71.17E–.03 5–13 30 1-4
SOME V 21 14 23 30.8 40.92N 71.08E 30 ¶16988853
KRNET V 21 14 23 33.6–.10 41.30N 71.13E 21 2.4b
NNC V 21 14 23 34.1–5.4 41.18N 70.90E 0 3.0b,2.7
ISCJB V 21 14 23 36.5–1.2 41.17N–.06 71.10E–.07 19–16 3.0b,2.7
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 21 20 06 06.1–1.6 40.78N–.06 73.45E–.03 5–11 63 1-5
KRNET V 21 20 06 06.5–.10 40.80N 73.32E 13 3.0b ¶16988856
SOME V 21 20 06 08.6 40.90N 73.30E 0 3.0b
NNC V 21 20 06 09.9–2.3 40.84N 73.22E 0 3.6b,3.2

ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.9km s-min=12.1km az=170.0.
ISC V 22 11 50 13.5–1.1 40.61N–.05 73.27E–.03 10 33 0-4
ISCJB V 22 11 50 14.7–.81 40.54N–.05 73.24E–.05 10 ¶601092699
NNC V 22 11 50 15.8–2.2 40.73N 73.30E 0 2.9b,2.5
KRNET V 22 11 50 16.3–.10 40.76N 73.30E 26 2.5b,2.5
SOME V 22 11 50 16.6 40.78N 73.27E 0 2.5b,2.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.0km az=152.4.
NNC Event type se. Error ellipse: s-maj=16.5km s-min=9.8km az=178.0.
ISC V 24 09 01 02.9–1.2 41.56N–.04 74.65E–.02 5–10 77 1-8
SOME V 24 09 01 03.4 41.58N 74.62E 5 ¶16992707
KRNET V 24 09 01 03.2–.10 41.54N 74.64E 18 3.2b
NNC V 24 09 01 04.0–.65 41.61N 74.61E 0 3.5b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=4.2km s-min=2.8km az=162.0.
ISC V 28 23 08 14.7–1.4 42.33N–.03 71.32E–.03 2–14 45 1-4
NNC V 28 23 08 16.0–.84 42.37N 71.32E 0 2.9b,2.3 ¶17029850
KRNET V 28 23 08 16.6–.10 42.30N 71.39E 14 2.1b,2.3
SOME V 28 23 08 16.7 42.32N 71.28E 10 2.1b,2.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.5km s-min=2.2km az=19.0.
ISC VI 02 11 55 19.1–2.9 39.61N–.10 72.22E–.07 21–7 16 1-4
KRNET VI 02 11 55 16.2–.10 39.52N 72.23E 19 2.7b ¶17204996
NNC VI 02 11 55 22.0–3.6 39.70N 71.85E 0 3.2b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=45.0km s-min=10.0km az=128.0.
ISC VI 03 15 10 07.1–2.0 41.05N–.04 71.70E–.03 3–16 27 1-4
KRNET VI 03 15 10 07.6–.10 41.08N 71.70E 11 2.2b ¶17205102
SOME VI 03 15 10 07.6 41.07N 71.72E 10 2.2b
NNC VI 03 15 10 08.2–2.0 41.06N 71.73E 0 2.9b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.1km s-min=8.4km az=172.0.
ISC VI 03 19 19 17.0–1.4 39.35N–.04 72.81E–.03 10–9 3.6b 82 1-82
IDC VI 03 19 19 14.9–1.0 39.28N 73.07E 0 3.7,3.6 ¶17205117
KRNET VI 03 19 19 16.1–.10 39.35N 72.94E 25 4.0b,3.6
SOME VI 03 19 19 19.1 39.52N 73.10E 5 4.0b,3.6
NNC VI 03 19 19 19.6–1.4 39.52N 72.95E 1–9 4.1b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.3km s-min=15.1km az=156.0.
NNC Event type se. Error ellipse: s-maj=11.8km s-min=6.8km az=141.0.
ISC VI 03 22 04 42.6–2.2 39.49N–.10 72.79E–.08 33 18 1-4
NNC VI 03 22 04 31.9–1.3 39.44N 73.29E 0 3.1b,2.8 ¶17205131
KRNET VI 03 22 04 35.2–.10 39.37N 73.01E 22 2.5b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.8km s-min=6.5km az=130.0.
ISC VI 05 10 18 05.9–2.1 40.11N–.08 73.74E–.03 2–12 40 1-5
SOME VI 05 10 17 58.0 39.65N 73.92E 10 ¶17205309
NNC VI 05 10 18 04.5–2.1 40.05N 73.85E 0 3.1b,2.8
KRNET VI 05 10 18 08.5–.10 40.19N 73.72E 2.7b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.9km s-min=13.0km az=165.0.
ISC VI 06 20 10 59.6–1.4 41.22N–.04 72.10E–.03 5–11 31 1-3
SOME VI 06 20 10 58.8 41.18N 72.13E 5 ¶17208913
KRNET VI 06 20 10 58.4–.10 41.22N 72.04E 10 2.0b
NNC VI 06 20 10 60.0–4.3 41.14N 72.04E 0 2.9b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.0km s-min=20.2km az=158.0.
ISC VI 12 10 05 03.2–.00 41.41N–.05 72.89E–.02 11–9 53 0-5
KRNET VI 12 10 05 03.8–.10 41.40N 72.89E 16 2.6b ¶17218452
SOME VI 12 10 05 04.2 41.40N 72.85E 10 2.6b
NNC VI 12 10 05 05.3–1.5 41.47N 72.88E 0 2.7b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=11.0km s-min=6.1km az=33.0.
ISC VI 12 17 16 21.4–1.3 40.26N–.04 72.63E–.03 4–11 72 0-6
KRNET VI 12 17 16 22.5–.10 40.30N 72.53E 5 3.7b ¶17218467
SOME VI 12 17 16 24.7 40.47N 72.63E 0 3.7b
NNC VI 12 17 16 26.3–1.9 40.46N 72.58E 3–8 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.1km s-min=6.4km az=9.0.
ISC VI 13 00 51 38.7–1.5 39.64N–.06 72.73E–.05 17–8 3.6b 50 1-67
IDC VI 13 00 51 33.5–1.8 39.32N 73.00E 0 3.6,3.6b ¶17206018
KRNET VI 13 00 51 34.4–.10 39.50N 72.98E 13 3.3b,3.6b
NNC VI 13 00 51 39.4–2.4 39.60N 73.08E 0 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=27.3km s-min=15.2km az=139.0.
NNC Event type se. Error ellipse: s-maj=20.8km s-min=13.6km az=15.0.
ISC VI 19 11 18 04.3–1.1 41.97N–.03 72.18E–.02 6–10 38 0-3
KRNET VI 19 11 18 04.0–.10 41.98N 72.19E 12 2.4b ¶17237522
SOME VI 19 11 18 04.3 41.97N 72.22E 10 2.4b
NNC VI 19 11 18 05.0–1.4 42.07N 72.18E 6–10 3.0b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.4km s-min=7.3km az=42.0.
ISC VI 19 15 01 09.0–1.2 40.56N–.03 73.43E–.02 2–9 3.8b 115 0-68
IDC VI 19 15 01 07.3–1.9 40.42N 73.41E 0 3.8b,3.8 ¶601092885
NNC VI 19 15 01 09.7–1.3 40.55N 73.41E 0 4.1b,3.8
KRNET VI 19 15 01 10.0–.10 40.58N 73.30E 4.0b,3.8
SOME VI 19 15 01 11.5 40.62N 73.32E 5 3.3s,3.8
ISC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=12.3km az=138.0.
NNC Event type se. Error ellipse: s-maj=10.3km s-min=5.9km az=15.0.
ISC VI 19 17 21 28.3–1.2 42.41N–.03 71.25E–.02 1–11 64 0-6
NNC VI 19 17 21 28.1–1.4 42.32N 71.11E 9–23 3.6b,3.1 ¶17237535
SOME VI 19 17 21 30.3 42.35N 71.18E 5 3.6b,3.1
KRNET VI 19 17 21 30.3–.10 42.34N 71.27E 17 3.1b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=4.7km az=23.0.
ISC VI 21 14 47 38.9–.58 39.14N–.03 72.38E–.02 33–2 4.9b,4.2s 586 1-148
IDC VI 21 14 47 33.9–.43 39.15N 72.52E 0 4.8,4.8 ¶16640777
SOME VI 21 14 47 34.4 39.25N 72.50E 20 4.6s,4.8
NNC VI 21 14 47 35.0–2.7 39.11N 72.30E 0 5.4b,5.0
BJI VI 21 14 47 35.6 39.20N 72.28E 30 4.9b,4.9b
KRNET VI 21 14 47 36.3–.10 39.18N 72.34E 17 5.3b,4.9b
MOS VI 21 14 47 37.6–.90 39.25N 72.56E 33 5.1b,4.2s
ISCJB VI 21 14 47 38.7–.30 39.08N–.01 72.50E–.02 49–2 4.9b,4.2s
NEIC VI 21 14 47 40.9–.49 39.21N 72.50E 52–4 5.0b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=9.8km s-min=7.8km az=174.0.
NNC Event type se. Error ellipse: s-maj=21.1km s-min=17.0km az=10.0.
MOS Error ellipse: s-maj=5.5km s-min=4.3km az=110.8.
ISCJB Event type se. Error ellipse: s-maj=2.7km s-min=2.2km az=155.5.
NEIC Event type se. Error ellipse: s-maj=3.9km s-min=2.9km az=186.0.
ISC VI 21 20 10 17.1–1.5 40.17N–.04 72.24E–.03 2–11 76 1-11
KRNET VI 21 20 10 17.2–.10 40.06N 72.57E 27 3.6b ¶17240356
NNC VI 21 20 10 19.3–4.6 40.12N 72.50E 0 3.8b,3.5
SOME VI 21 20 10 20.5 40.50N 72.55E 10 3.8b,3.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.7km s-min=25.1km az=3.0.
ISC VI 22 08 58 45.6–1.9 39.20N–.10 72.25E–.06 10 20 0-4
KRNET VI 22 08 58 45.0–.10 39.21N 72.28E 15 2.9b ¶17242774
ISCJB VI 22 08 58 46.4–1.3 39.21N–.07 72.26E–.06 10 2.9b
NNC VI 22 08 58 47.5–2.2 39.26N 72.42E 0 3.6b,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=5.8km az=163.4.
NNC Event type se. Error ellipse: s-maj=23.0km s-min=7.3km az=135.0.
ISC VI 23 12 23 37.3–1.9 39.48N–.10 72.77E–.07 8–14 25 1-13
KRNET VI 23 12 23 36.3–.10 39.33N 72.81E 30 3.6b ¶17242828
ISCJB VI 23 12 23 37.4–1.4 39.37N–.07 72.81E–.07 23–10 3.6b
NNC VI 23 12 23 37.9–1.3 39.60N 72.73E 0 3.9b,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=7.2km az=149.5.

NNC Event type se. Error ellipse: s-maj=14.1km s-min=7.8km az=134.0.
ISC VI 25 09 16 38.0–1.7 41.06N–.04 69.72E–.05 16–14 25 1-5
KRNET VI 25 09 16 29.2–.10 41.11N 69.31E 2.9b ¶17266177
SOME VI 25 09 16 34.6 40.93N 69.68E 0 2.9b
NNC VI 25 09 16 38.9–.72 40.91N 69.85E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.0km s-min=5.1km az=112.0.
KRNET VI 25 10 04 59.7–.10 41.63N 73.88E 4 1.6b ¶601092916
KRNET VI 26 20 42 58.9–.10 39.42N 72.53E 4 2.4b ¶600952510
KRNET VI 26 20 43 03.9–.10 39.72N 72.38E 2.3b ¶601092927
ISC VI 28 13 41 33.8–2.7 41.05N–.05 69.84E–.07 8–17 27 1-5
SOME VI 28 13 41 30.0 40.87N 69.62E 20 ¶17270279
NNC VI 28 13 41 31.6–1.8 40.80N 69.90E 0 3.4b,3.0
KRNET VI 28 13 41 34.9–.10 40.94N 69.98E 2.7b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.3km s-min=8.6km az=37.0.
ISC VI 29 04 30 44.9–1.6 39.49N–.06 72.71E–.03 0–11 67 1-13
SOME VI 29 04 30 45.7 39.48N 72.67E 5 ¶17270291
KRNET VI 29 04 30 48.0–.10 39.53N 72.66E 7 3.7b
NNC VI 29 04 30 53.5–10 39.69N 72.63E 236–173 3.8,2.5b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=178.3km s-min=55.4km az=0.0.
KRNET VI 29 07 04 41.6–.10 41.80N 69.95E 1.8b ¶17270299
ISC VI 30 12 41 07.1–1.7 41.59N–.05 70.11E–.05 5–13 23 1-3
KRNET VI 30 12 41 05.5–.10 41.59N 69.93E 2.4b ¶17317251
ISCJB VI 30 12 41 06.7–1.2 41.55N–.03 70.06E–.07 2–9 2.4b
SOME VI 30 12 41 06.7 41.55N 70.13E 10 2.4b
NNC VI 30 12 41 06.8–1.1 41.62N 70.01E 0 2.8b,2.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.2km s-min=5.4km az=171.2.
NNC Event type se. Error ellipse: s-maj=10.5km s-min=7.9km az=102.0.

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ISC I 01 20 18 00.2–.41 36.33N–.04 71.37E–.05 118–4 4.0b 148 3-90
BJI I 01 20 17 57.3 36.54N 71.06E 80 4.6b,4.3b ¶16021228
ISCJB I 01 20 17 58.1–.40 36.26N–.02 71.47E–.03 113–5 3.9b,4.3b
MOS I 01 20 17 58.5–1.2 36.38N 71.34E 104 4.1b,4.3b
IDC I 01 20 18 00.9–.58 36.22N 71.15E 118–5 4.2,3.9
NNC I 01 20 18 05.3–2.5 36.94N 70.66E 134–37 4.8,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=3.2km az=158.2.
MOS Error ellipse: s-maj=9.0km s-min=5.5km az=100.7.
IDC Error ellipse: s-maj=12.3km s-min=10.1km az=43.0.
NNC Event type se. Error ellipse: s-maj=22.8km s-min=14.7km az=154.0.
ISC I 02 07 45 50.0–3.4 37.1N–.20 71.6E–.10 109 16 5-17
NNC I 02 07 45 55.3–3.1 37.43N 71.60E 174–54 3.6,2.7b ¶16405032
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.6km s-min=19.8km az=14.0.
ISC I 03 02 22 35.1–3.0 38.8N–.20 70.25E–.09 17 20 4-15
NNC I 03 02 22 35.5–1.3 38.98N 70.27E 0 3.8b,3.5 ¶16405051
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=10.2km s-min=8.0km az=173.0.
NNC I 04 12 59 09.8–6.4 37.14N 70.78E 0 3.7b,3.4 ¶16414726
NNC Event type se. Error ellipse: s-maj=59.1km s-min=42.9km az=133.0.
ISC I 05 10 03 24.3–.66 37.33N–.06 71.90E–.06 200 3.3b 51 5-80
ISCJB I 05 10 03 23.2–.39 37.24N–.04 71.93E–.05 200 3.3b ¶16021257
IDC I 05 10 03 23.6–3.0 37.29N 71.83E 180–22 3.7,3.2
NNC I 05 10 03 26.4–9.2 37.54N 71.43E 162–144 4.1,3.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=4.5km az=145.1.
IDC Error ellipse: s-maj=30.8km s-min=14.9km az=159.0.
NNC Event type se. Error ellipse: s-maj=84.6km s-min=50.7km az=19.0.
ISC I 06 18 59 02.9–1.5 36.7N–.10 71.04E–.10 100 3.3b 17 6-81
IDC I 06 18 58 57.2–5.1 36.31N 71.28E 66–36 3.7,3.6L ¶16395110
NNC I 06 18 59 03.0–4.6 36.65N 71.02E 98–93 3.5,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=55.1km s-min=19.8km az=160.0.
NNC Event type se. Error ellipse: s-maj=38.6km s-min=35.1km az=95.0.
ISC I 07 12 00 49.0–3.3 37.3N–.20 71.9E–.10 130 15 5-16
NNC I 07 12 00 55.1–4.4 37.75N 71.98E 211–71 3.7,2.7b ¶16414828
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=49.8km s-min=28.7km az=12.0.
ISC I 08 02 23 10.5–1.1 38.90N–.09 70.21E–.07 13 3.9b 38 4-79
IDC I 08 02 23 05.0–1.8 38.59N 70.76E 0 3.8b,3.7 ¶15998074
ISCJB I 08 02 23 08.3–.80 38.83N–.07 70.16E–.06 13 3.8b,3.7
NEIC I 08 02 23 09.2–7.7 38.80N 70.33E 15–46 4.2b,3.7
NNC I 08 02 23 11.6–4.0 39.00N 70.30E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=28.5km s-min=13.9km az=153.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=5.0km az=152.9.
NEIC Event type se. Error ellipse: s-maj=31.2km s-min=12.1km az=170.0.
NNC Event type se. Error ellipse: s-maj=31.7km s-min=20.2km az=175.0.
ISC I 08 10 10 11.1–1.5 36.2N–.10 71.1E–.10 100 3.4b 31 6-82
IDC I 08 10 10 08.8–5.1 35.89N 71.16E 94–31 3.7,3.5 ¶16395226
NNC I 08 10 10 17.3–4.2 36.66N 70.65E 102–92 3.9,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=58.9km s-min=21.9km az=152.0.
NNC Event type se. Error ellipse: s-maj=31.5km s-min=30.1km az=179.0.
ISC I 10 09 38 12.6–2.2 37.6N–.10 71.6E–.10 200 3.4b 23 5-80
IDC I 10 09 38 14.4–4.6 37.54N 71.92E 212–32 3.7,3.2 ¶16395421
NNC I 10 09 38 17.8–3.8 37.86N 71.95E 228–41 4.0,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=43.7km s-min=20.6km az=180.0.
NNC Event type se. Error ellipse: s-maj=36.2km s-min=27.9km az=16.0.
ISC I 14 19 19 10.9–.44 37.30N–.04 71.86E–.05 130 4.0b 134 3-80
IDC I 14 19 19 08.1–2.6 37.23N 71.78E 99–21 4.1,3.9 ¶15930941
ISCJB I 14 19 19 09.2–.27 37.27N–.02 71.93E–.04 130 4.0b,3.9
NEIC I 14 19 19 11.6–1.1 37.43N 71.89E 130–14 4.3b,3.9
BJI I 14 19 19 11.6 37.47N 71.96E 133 4.6b,4.4b
MOS I 14 19 19 12.6–1.1 37.51N 71.90E 146 4.1b,4.4b
NNC I 14 19 19 16.3–2.3 37.82N 71.62E 181–24 4.7,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=21.2km s-min=13.8km az=168.0.
ISCJB Event type se. Error ellipse: s-maj=4.8km s-min=2.9km az=169.9.
NEIC Event type se. Error ellipse: s-maj=16.3km s-min=13.3km az=103.0.
MOS Error ellipse: s-maj=14.2km s-min=6.1km az=92.3.
NNC Event type se. Error ellipse: s-maj=20.3km s-min=12.6km az=16.0.
ISC I 15 02 05 26.7–1.1 36.4N–.10 71.5E–.10 150 3.5b 41 6-82
IDC I 15 02 05 28.3–4.0 36.39N 71.50E 170–36 3.8,3.4 ¶16019220
NNC I 15 02 05 36.8–1.9 37.15N 71.35E 192–17 4.2,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=28.8km s-min=18.9km az=2.0.
NNC Event type se. Error ellipse: s-maj=17.9km s-min=10.5km az=37.0.
NNC I 15 11 57 05.4–3.3 37.15N 71.04E 230–70 3.6,2.4b ¶16442059
NNC Event type se. Error ellipse: s-maj=43.2km s-min=26.5km az=24.0.
ISC I 17 15 05 39.7–1.1 38.65N–.09 70.12E–.08 23 3.5b 32 4-84
NNC I 17 15 05 35.7–2.0 38.56N 70.30E 0 4.2b,4.0 ¶17190413
IDC I 17 15 05 35.4–1.4 38.51N 70.57E 0 3.8,3.8s
ISCJB I 17 15 05 37.7–.83 38.57N–.07 70.23E–.09 23 3.8s,3.6b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC I 18 23 14 44.3–.49 36.23N–.05 71.36E–.06 114 4.1b 129 2-84
IDC I 18 23 14 30.5–.75 35.88N 71.12E 0 4.3L,4.2 ¶16019236
NEIC I 18 23 14 40.6–1.8 36.15N 71.05E 77–14 4.7b,4.2
BJI I 18 23 14 42.3 36.49N 71.05E 81 4.2s,4.0b
ISCJB I 18 23 14 42.4–.23 36.24N–.02 71.31E–.04 114 4.1b,4.0b
MOS I 18 23 14 42.5–1.1 36.31N 71.17E 99 4.1b,4.0b
NNC I 18 23 14 45.6–5.3 36.62N 70.71E 126–66 5.0,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=17.2km s-min=14.3km az=178.0.
NEIC Event type se. Error ellipse: s-maj=15.7km s-min=8.9km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=174.5.
MOS Error ellipse: s-maj=12.0km s-min=6.5km az=90.7.
NNC Event type se. Error ellipse: s-maj=42.5km s-min=37.0km az=25.0.
ISC I 18 23 32 56.8–1.0 36.44N–.07 71.5E–.10 114 3.9b 28 6-81
IDC I 18 23 32 43.4–2.6 35.90N 71.52E 0 4.4,4.4s ¶16019237
ISCJB I 18 23 32 56.6–.62 36.46N–.05 71.66E–.09 114 3.7b,4.4s
NNC I 18 23 33 03.7–5.5 37.08N 71.19E 241–80 3.6,2.4b
ISC Event type se.
IDC Error ellipse: s-maj=53.8km s-min=25.4km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.3km az=158.4.
NNC Event type se. Error ellipse: s-maj=54.2km s-min=38.1km az=19.0.
ISC I 22 00 15 16.1–.69 36.36N–.06 71.41E–.09 119 4.0b 47 6-75
NEIC I 22 00 15 11.8–1.6 36.08N 71.33E 71–17 4.0b ¶16152049
IDC I 22 00 15 11.4–6.4 36.15N 71.37E 64–61 3.9,3.9s
ISCJB I 22 00 15 14.6–.56 36.32N–.05 71.42E–.08 119 4.0b,3.9s
NNC I 22 00 15 19.9–3.6 36.76N 71.06E 126–60 3.9,3.1b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=13.7km s-min=10.1km az=209.0.
IDC Error ellipse: s-maj=58.5km s-min=41.3km az=123.0.
ISCJB Event type se. Error ellipse: s-maj=9.8km s-min=6.1km az=27.1.
NNC Event type se. Error ellipse: s-maj=28.7km s-min=24.7km az=25.0.
ISC I 22 12 36 01.2–1.1 36.99N–.08 71.0E–.10 88 3.2b 29 6-82
IDC I 22 12 35 58.5–5.9 36.78N 71.15E 64–47 3.5,3.4 ¶16396552
ISCJB I 22 12 36 00.8–.87 37.04N–.06 71.1E–.10 88 3.1b,3.4
NNC I 22 12 36 05.8–2.5 37.29N 71.05E 112–57 3.9,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=43.5km s-min=35.7km az=50.0.
ISCJB Event type se. Error ellipse: s-maj=12.9km s-min=8.0km az=178.1.
NNC Event type se. Error ellipse: s-maj=20.7km s-min=20.0km az=144.0.
NNC I 25 12 58 32.0–4.0 37.04N 71.06E 184–58 3.7,2.6b ¶16461027
NNC Event type se. Error ellipse: s-maj=38.8km s-min=25.6km az=28.0.
ISC I 27 00 20 29.5–1.6 38.8N–.10 71.06E–.10 33 20 4-66
IDC I 27 00 20 25.0–2.6 38.82N 71.21E 0 3.3,3.3b ¶16396923
ISCJB I 27 00 20 26.7–1.2 38.72N–.08 70.96E–.09 33 3.1b,3.1s
NNC I 27 00 20 29.5–1.9 38.73N 71.08E 101–60 3.5,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=106.8km s-min=22.2km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.9km az=15.4.
NNC Event type se. Error ellipse: s-maj=18.4km s-min=13.0km az=32.0.
ISC I 27 17 42 00.3–.58 37.00N–.04 71.90E–.05 142 3.5b 44 5-81
ISCJB I 27 17 42 00.6–.43 37.03N–.04 71.83E–.06 142 3.5b ¶16019270
IDC I 27 17 42 01.8–4.2 37.01N 71.93E 173–26 4.3s,4.3
NEIC I 27 17 42 02.8–2.5 37.02N 71.99E 183–14 4.2b,4.3
NNC I 27 17 42 13.1–3.1 37.89N 72.12E 236–36 3.9,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=4.5km az=146.5.
IDC Error ellipse: s-maj=47.4km s-min=15.5km az=152.0.
NEIC Event type se. Error ellipse: s-maj=29.9km s-min=12.2km az=169.0.
NNC Event type se. Error ellipse: s-maj=32.7km s-min=20.0km az=14.0.
ISC I 27 21 04 02.3–.79 37.45N–.07 71.62E–.07 10 3.6b 35 5-80
ISCJB I 27 21 03 59.9–.51 37.46N–.04 71.60E–.07 10 3.6b ¶16397019
IDC I 27 21 04 05.6–8.1 37.51N 71.88E 30–56 3.7,3.6
NNC I 27 21 04 06.4–1.8 37.80N 71.54E 0 4.1b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=4.6km az=152.2.
IDC Error ellipse: s-maj=43.2km s-min=19.5km az=162.0.
NNC Event type se. Error ellipse: s-maj=14.0km s-min=13.1km az=62.0.
ISC I 28 08 48 39.1–1.3 36.15N–.08 71.4E–.20 114 3.6b 31 6-82
IDC I 28 08 48 34.5–5.4 35.93N 71.16E 82–34 3.8,3.6 ¶16397070
ISCJB I 28 08 48 36.5–.57 36.05N–.04 71.26E–.08 114 3.6b,3.6
NNC I 28 08 48 43.1–2.2 36.84N 70.93E 0 4.3b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=58.9km s-min=19.5km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=4.6km az=154.2.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=16.3km az=118.0.
ISC I 28 12 12 41.0–.52 37.01N–.04 71.44E–.07 10 4.0b 57 3-84
ISCJB I 28 12 12 39.6–.44 36.99N–.03 71.61E–.07 10 3.8b ¶16019272
IDC I 28 12 12 39.8–.88 37.01N 71.57E 0 4.0,3.9b
NEIC I 28 12 12 41.7–.84 37.02N 71.45E 10 4.1b,3.9b
NNC I 28 12 12 42.4–3.3 37.17N 71.20E 0 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.1km az=160.8.
IDC Error ellipse: s-maj=17.0km s-min=16.7km az=96.0.
NEIC Event type se. Error ellipse: s-maj=15.4km s-min=11.8km az=142.0.
NNC Event type se. Error ellipse: s-maj=30.3km s-min=24.5km az=39.0.
ISC I 29 06 50 27.6–1.5 38.6N–.10 70.25E–.08 27 27 4-79
IDC I 29 06 50 22.5–1.8 38.38N 70.52E 0 3.5,3.4 ¶16397130
ISCJB I 29 06 50 26.2–1.1 38.59N–.08 70.18E–.07 27 3.2b,3.4
NNC I 29 06 50 28.4–3.0 38.80N 70.47E 0 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=28.5km s-min=22.7km az=163.0.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=8.1km az=178.8.
NNC Event type se. Error ellipse: s-maj=23.1km s-min=17.3km az=174.0.
ISC I 29 14 34 58.6–.94 37.67N–.08 69.31E–.08 27 31 5-50
IDC I 29 14 34 50.7–5.1 37.00N 69.68E 0 4.0b,3.8 ¶16397150
ISCJB I 29 14 34 57.0–.65 37.65N–.04 69.31E–.08 27 3.9b,3.3s
NNC I 29 14 35 02.3–3.6 38.27N 69.04E 0 3.9b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=75.4km s-min=21.3km az=165.0.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=6.2km az=168.7.
NNC Event type se. Error ellipse: s-maj=32.1km s-min=16.8km az=167.0.
ISC I 29 23 29 38.2–.70 36.24N–.07 71.43E–.08 114 3.7b 44 6-81
IDC I 29 23 29 31.9–4.5 35.78N 71.45E 73–30 3.9,3.7 ¶16019278
ISCJB I 29 23 29 36.8–.46 36.21N–.04 71.47E–.07 114 3.7b,3.7
NNC I 29 23 29 42.8–3.6 36.73N 70.84E 96–74 4.0,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=44.5km s-min=20.1km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=4.5km az=155.1.
NNC Event type se. Error ellipse: s-maj=26.6km s-min=25.1km az=24.0.
IDC I 31 03 01 54.0–8.8 36.86N 71.16E 224–55 3.6,3.2
NNC I 31 03 01 55.5–2.5 37.37N 70.73E 333–136 3.1,1.7b ¶16397282
IDC Error ellipse: s-maj=95.3km s-min=76.4km az=122.0.
NNC Event type se. Error ellipse: s-maj=80.5km s-min=19.6km az=3.0.
ISC I 31 09 38 41.9–.64 37.29N–.05 71.87E–.09 150 3.7b 52 3-80
ISCJB I 31 09 38 41.0–.41 37.21N–.03 71.93E–.07 150 3.8b ¶16136286
IDC I 31 09 38 40.3–4.3 36.99N 72.00E 143–31 4.1,3.7
NNC I 31 09 38 50.8–1.0 37.94N 71.88E 240–8 4.0,3.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.6km az=163.5.
IDC Error ellipse: s-maj=38.4km s-min=18.9km az=167.0.
NNC Event type se. Error ellipse: s-maj=9.8km s-min=6.8km az=22.0.
NNC I 31 16 32 26.6–2.9 36.81N 71.03E 183–55 3.6,2.6b ¶16487844
NNC Event type se. Error ellipse: s-maj=31.9km s-min=20.0km az=46.0.
ISC II 02 02 31 53.9–.48 36.34N–.05 71.08E–.06 200 3.6b 79 3-84
ISCJB II 02 02 31 53.6–.32 36.36N–.03 71.01E–.05 200 3.6b ¶16168793
MOS II 02 02 31 55.4–1.0 36.41N 71.20E 229 4.0b
IDC II 02 02 31 55.6–2.3 36.33N 71.10E 220–21 4.1,3.5
NNC II 02 02 32 01.6–1.5 36.86N 70.99E 222–17 3.9,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.3km az=153.1.
MOS Error ellipse: s-maj=19.4km s-min=8.9km az=92.7.
IDC Error ellipse: s-maj=15.6km s-min=11.3km az=13.0.

NNC Event type se. Error ellipse: s-maj=14.1km s-min=10.2km az=17.0.
ISC II 02 05 29 18.6–.79 36.48N–.07 71.11E–.09 200 3.5b 38 6-84
ISCJB II 02 05 29 17.8–.57 36.47N–.04 70.94E–.08 200 3.3b ¶16397440
IDC II 02 05 29 18.0–3.9 36.41N 70.95E 195–35 3.9,3.4
NNC II 02 05 29 27.1–2.8 37.10N 70.91E 227–43 3.7,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.9km az=157.0.
IDC Error ellipse: s-maj=27.7km s-min=18.6km az=10.0.
NNC Event type se. Error ellipse: s-maj=29.6km s-min=18.3km az=10.0.
ISC II 02 12 24 28.2–3.2 37.6N–.20 71.9E–.20 130 10 5-66
NNC II 02 12 24 30.3–6.3 37.91N 71.71E 0 3.2b,2.7 ¶16397459
IDC II 02 12 24 34.9–12 37.49N 72.43E 297–127 3.5,2.8b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=51.0km s-min=42.7km az=140.0.
IDC Error ellipse: s-maj=99.4km s-min=56.2km az=170.0.
ISC II 02 21 02 24.3–3.1 36.7N–.20 71.2E–.10 100 19 6-17
NNC II 02 21 02 25.4–7.0 36.89N 70.76E 65–157 3.9,3.8b ¶16494092
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=58.7km s-min=46.3km az=135.0.
ISC II 04 01 29 02.9–1.7 38.0N–.10 70.34E–.09 10 11 5-19
NNC II 04 01 29 02.3–3.0 36.64N 70.37E 68–100 3.6,3.4b ¶16397546
IDC II 04 01 29 02.7–6.9 38.00N 70.21E 0 3.3,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=31.8km s-min=21.8km az=114.0.
IDC Error ellipse: s-maj=143.5km s-min=25.5km az=159.0.
ISC II 05 11 29 26.9–2.5 37.7N–.20 71.66E–.08 109 19 2-16
NNC II 05 11 29 26.6–3.6 37.71N 71.55E 164–41 3.7,3.0b ¶16498980
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.9km s-min=17.9km az=143.0.
ISC II 06 08 30 00.2–3.2 37.5N–.40 68.2E–.20 24 3.8b 15 6-80
IDC II 06 08 29 50.9–3.8 36.65N 68.60E 0 3.9,3.8 ¶16168809
ISCJB II 06 08 29 57.8–2.5 37.4N–.30 68.2E–.20 24 3.7b,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC II 06 10 49 40.9–.79 36.26N–.07 71.26E–.07 100 3.7b 30 3-81
ISCJB II 06 10 49 41.1–.83 36.33N–.07 71.14E–.07 100 3.5b ¶16397715
IDC II 06 10 49 41.8–5.4 36.33N 71.30E 91–31 3.7,3.5
NNC II 06 10 49 48.5–14 37.07N 70.97E 0 4.1b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=7.8km az=18.3.
IDC Error ellipse: s-maj=60.5km s-min=23.2km az=152.0.
NNC Event type se. Error ellipse: s-maj=149.5km s-min=66.3km az=148.0.
ISC II 06 16 53 56.0–1.0 36.37N–.08 71.4E–.10 100 3.9b 33 3-81
IDC II 06 16 53 48.9–7.2 35.86N 71.27E 53–36 3.6,3.5 ¶16168810
ISCJB II 06 16 53 54.0–.66 36.28N–.06 71.27E–.09 100 3.6b,3.5
NNC II 06 16 53 59.6–9.9 36.87N 70.44E 193–100 3.7,2.6b
ISC Event type se.
IDC Error ellipse: s-maj=88.0km s-min=28.3km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=5.5km az=148.3.
NNC Event type se. Error ellipse: s-maj=106.0km s-min=67.3km az=135.0.
ISC II 07 16 22 51.0–.35 36.47N–.03 71.49E–.04 114 4.3b 159 3-99
IDC II 07 16 22 37.2–.84 36.24N 71.43E 0 4.3,4.2 ¶16009153
MOS II 07 16 22 46.6–1.1 36.43N 71.35E 78 4.7b,4.2
BJI II 07 16 22 46.3 36.53N 71.10E 86 4.6b,4.3b
NEIC II 07 16 22 47.9–1.3 36.42N 71.34E 80–11 4.5b,4.3b
ISCJB II 07 16 22 49.1–.21 36.45N–.02 71.57E–.04 114 4.2b,4.3b
NNC II 07 16 22 50.9–1.2 36.70N 71.04E 127–13 4.9,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=17.0km s-min=13.7km az=137.0.
MOS Error ellipse: s-maj=8.4km s-min=4.5km az=93.5.
NEIC Event type se. Error ellipse: s-maj=11.6km s-min=7.3km az=200.0.
ISCJB Event type se. Error ellipse: s-maj=4.5km s-min=2.8km az=159.5.
NNC Event type se. Error ellipse: s-maj=12.0km s-min=7.8km az=159.0.
NNC II 08 00 30 46.0–1.8 36.84N 71.13E 0 3.7b,3.4
¶16501911
NNC Event type se. Error ellipse: s-maj=14.4km s-min=7.5km az=171.0.
ISC II 08 06 33 35.0–1.4 36.6N–.10 71.03E–.10 188 3.6b 29 3-81
ISCJB II 08 06 33 35.0–1.1 36.59N–.08 70.97E–.09 188 3.6b ¶16397821
IDC II 08 06 33 38.6–4.0 36.76N 71.06E 225–26 3.9,3.4b
NNC II 08 06 33 40.2–2.4 36.93N 70.85E 198–38 3.9,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=7.9km az=144.3.
IDC Error ellipse: s-maj=50.7km s-min=20.6km az=148.0.
NNC Event type se. Error ellipse: s-maj=23.6km s-min=16.2km az=17.0.
NNC II 09 05 46 28.5–8.7 37.83N 71.52E 0 3.5b,3.1
¶16506033
NNC Event type se. Error ellipse: s-maj=78.5km s-min=28.7km az=160.0.
ISC II 09 15 10 26.1–1.0 36.19N–.09 71.2E–.10 100 3.9b 27 3-82
IDC II 09 15 10 17.8–7.0 35.53N 71.10E 50–35 3.8,3.7 ¶16168822
NNC II 09 15 10 27.9–5.8 36.45N 70.79E 120–73 3.7,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=87.7km s-min=29.8km az=162.0.
NNC Event type se. Error ellipse: s-maj=54.0km s-min=37.3km az=154.0.
ISC II 11 17 09 54.3–.41 36.56N–.04 71.10E–.04 150 4.1b 146 3-84
IDC II 11 17 09 51.5–2.8 36.28N 71.16E 131–24 4.1,3.8 ¶16021083
ISCJB II 11 17 09 53.1–.22 36.55N–.02 71.17E–.03 150 4.0b,3.8
BJI II 11 17 09 53.8 36.73N 70.93E 165 4.6b,4.2b
NEIC II 11 17 09 54.9–.84 36.59N 71.05E 155–9 4.2b,4.2b
MOS II 11 17 09 54.1–.92 36.55N 71.26E 160 4.2b,4.2b
NNC II 11 17 09 58.2–1.2 36.85N 71.17E 147–12 4.8,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=19.8km s-min=12.1km az=6.0.
ISCJB Event type se. Error ellipse: s-maj=3.6km s-min=2.8km az=158.0.
NEIC Event type se. Error ellipse: s-maj=9.4km s-min=8.1km az=144.0.
MOS Error ellipse: s-maj=9.7km s-min=5.3km az=88.4.
NNC Event type se. Error ellipse: s-maj=12.4km s-min=6.6km az=158.0.
ISC II 11 23 46 18.8–1.1 37.23N–.09 71.28E–.07 200 3.4b 43 2-44
NEIC II 11 23 46 12.8–2.6 36.71N 71.46E 158–15 4.2b ¶16328803
IDC II 11 23 46 14.6–4.6 36.98N 71.26E 148–26 4.2s,4.2
NNC II 11 23 46 18.7–2.3 37.27N 71.35E 188–18 3.9,2.8b
ISC Event type se.
NEIC Event type se. Error ellipse: s-maj=32.0km s-min=12.6km az=164.0.
IDC Error ellipse: s-maj=56.7km s-min=16.4km az=151.0.
NNC Event type se. Error ellipse: s-maj=22.1km s-min=13.9km az=159.0.
NNC II 12 03 18 10.6–.91 38.60N 70.28E 0 3.6b,3.3
¶16509543
NNC Event type se. Error ellipse: s-maj=9.3km s-min=2.5km az=161.0.
ISC II 14 03 38 24.1–1.8 38.9N–.10 70.62E–.06 17 20 1-13
ISCJB II 14 03 38 23.9–1.3 38.95N–.09 70.55E–.09 17 ¶16512151
NNC II 14 03 38 23.3–1.9 38.97N 70.72E 0 3.5b,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.4km s-min=8.9km az=155.1.
NNC Event type se. Error ellipse: s-maj=22.8km s-min=5.7km az=149.0.
ISC II 14 07 35 31.4–.77 38.19N–.07 70.35E–.05 10 3.9b 66 1-86
IDC II 14 07 35 29.2–.91 38.06N 70.44E 0 4.1,3.9 ¶16398166
NNC II 14 07 35 30.4–3.6 38.15N 70.46E 0 4.3b,4.2
ISCJB II 14 07 35 30.1–.53 38.25N–.05 70.39E–.05 10 3.8b,4.2
BJI II 14 07 35 32.1 38.95N 70.17E 23 4.1b,3.5L
MOS II 14 07 35 32.5–1.8 38.29N 70.56E 20 4.4b,3.5L
NEIC II 14 07 35 36.4–2.3 38.38N 70.33E 46–18 4.3b,3.5L
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=15.5km az=167.0.
NNC Event type se. Error ellipse: s-maj=33.3km s-min=10.6km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=5.4km az=153.1.
MOS Error ellipse: s-maj=12.6km s-min=6.1km az=82.0.
NEIC Event type se. Error ellipse: s-maj=22.9km s-min=10.9km az=192.0.
ISC II 15 03 43 43.1–.69 37.30N–.07 71.88E–.06 200 3.3b 34 3-80
IDC II 15 03 43 41.7–3.3 37.17N 71.87E 174–23 3.6,3.2 ¶16398232
ISCJB II 15 03 43 42.5–.40 37.24N–.05 71.88E–.05 200 3.2b,3.2
NNC II 15 03 43 48.5–3.0 37.73N 71.79E 191–24 3.5,2.6b
ISC Event type se.
IDC Error ellipse: s-maj=35.1km s-min=14.7km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=40.2.
NNC Event type se. Error ellipse: s-maj=29.6km s-min=13.5km az=152.0.
ISC II 15 05 33 02.3–2.2 36.7N–.20 71.3E–.10 100 3.7b 15 3-44
NNC II 15 05 33 00.6–7.9 36.94N 71.23E 0 3.7b,3.4 ¶16398237
IDC II 15 05 33 03.6–9.0 36.68N 71.67E 116–67 3.5,3.4b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=65.7km s-min=32.7km az=174.0.
IDC Error ellipse: s-maj=79.1km s-min=59.3km az=155.0.
NNC II 15 07 17 09.3–4.8 36.89N 71.11E 0 3.5b,3.3
¶16524951
NNC Event type se. Error ellipse: s-maj=40.9km s-min=30.4km az=13.0.
NNC II 15 18 12 19.2–7.4 37.18N 71.40E 0 3.8b,3.4
¶16524985
NNC Event type se. Error ellipse: s-maj=62.7km s-min=28.3km az=169.0.
ISC II 15 22 54 48.2–2.5 36.9N–.20 71.2E–.10 200 21 3-81
NNC II 15 22 54 49.9–4.4 37.11N 71.57E 0 3.9b,3.5 ¶16398300
IDC II 15 22 54 51.5–8.4 37.03N 71.38E 235–52 3.5,3.2b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.6km s-min=14.7km az=168.0.
IDC Error ellipse: s-maj=79.5km s-min=57.4km az=176.0.
ISC II 16 00 17 04.7–1.2 37.01N–.10 71.0E–.10 250 3.3b 14 2-85
IDC II 16 00 16 54.4–16 36.21N 70.83E 148–157 3.6,3.3 ¶16398304
ISCJB II 16 00 17 03.3–.91 36.93N–.07 71.0E–.10 250 3.1b,3.3
NNC II 16 00 17 03.8–3.9 36.95N 70.72E 176–47 3.5,2.6b
ISC Event type se.
IDC Error ellipse: s-maj=90.8km s-min=29.0km az=7.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=9.3km az=17.9.
NNC Event type se. Error ellipse: s-maj=34.5km s-min=22.2km az=29.0.
NNC II 17 16 25 02.7–6.1 37.04N 71.16E 0 3.6b,3.3
¶16529489
NNC Event type se. Error ellipse: s-maj=51.0km s-min=25.2km az=172.0.
NNC II 18 12 33 16.5–2.1 37.23N 71.13E 205–20 3.6,2.6b
¶16529536
NNC Event type se. Error ellipse: s-maj=25.1km s-min=11.7km az=144.0.
ISC II 18 18 02 01.6–1.1 37.09N–.08 70.72E–.08 10 23 6-66
NNC II 18 18 02 18.5–13 37.02N 70.48E 227–210 3.6,2.6b ¶16529542
IDC II 18 18 02 26.0–3.7 40.45N 68.21E 0 4.5,4.5s
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=140.3km s-min=69.3km az=3.0.
IDC Error ellipse: s-maj=85.8km s-min=23.6km az=162.0.
ISC II 19 00 17 13.7–3.5 36.6N–.20 71.48E–.09 35 7 3-7
NNC II 19 00 17 17.1–5.9 37.06N 71.25E 0 3.6b,3.3 ¶16531901
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=49.2km s-min=23.5km az=172.0.
NNC II 20 05 23 00.1–1.5 38.82N 70.73E 0 3.8b,3.6
¶16531961
NNC Event type se. Error ellipse: s-maj=16.4km s-min=4.4km az=152.0.
ISC II 20 19 48 34.7–.42 37.21N–.04 71.71E–.05 106 3.7b 79 3-84
ISCJB II 20 19 48 33.0–.28 37.10N–.03 71.74E–.04 106 3.9b ¶16303265
BJI II 20 19 48 35.4 37.21N 71.73E 111 4.5b,4.4b
IDC II 20 19 48 35.3–2.3 37.18N 71.77E 112–21 4.1,3.8
NNC II 20 19 48 39.5–1.6 37.52N 71.48E 131–18 4.6,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.9km s-min=3.5km az=152.5.
IDC Error ellipse: s-maj=14.2km s-min=11.7km az=14.0.
NNC Event type se. Error ellipse: s-maj=15.3km s-min=8.4km az=159.0.
ISC II 21 07 58 44.7–1.1 36.51N–.08 71.45E–.10 100 22 3-17
ISCJB II 21 07 58 46.9–.75 36.60N–.05 71.59E–.09 100 ¶16301878
NNC II 21 07 58 53.3–1.7 37.13N 71.15E 187–14 4.0,2.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.6km az=155.0.
NNC Event type se. Error ellipse: s-maj=17.2km s-min=9.0km az=151.0.
ISC II 21 18 34 23.7–3.4 37.3N–.20 71.38E–.09 109 15 3-15
NNC II 21 18 34 24.8–2.7 37.38N 71.33E 127–46 3.5,2.7b ¶16535947
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.9km s-min=15.3km az=146.0.
NNC II 22 12 50 30.1–4.7 37.34N 71.23E 0 3.6b,3.0
¶16535980
NNC Event type se. Error ellipse: s-maj=40.1km s-min=17.3km az=169.0.
ISC II 22 21 02 28.4–1.2 37.7N–.10 72.00E–.07 200 3.4b 36 3-80
ISCJB II 22 21 02 25.9–.41 37.45N–.04 72.10E–.05 200 3.4b ¶16398777
IDC II 22 21 02 25.2–3.2 37.37N 72.12E 182–23 3.9,3.4
NNC II 22 21 02 30.5–2.8 37.78N 71.98E 202–30 3.8,2.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.6km az=136.2.
IDC Error ellipse: s-maj=33.9km s-min=14.7km az=157.0.
NNC Event type se. Error ellipse: s-maj=29.8km s-min=13.8km az=145.0.
ISC II 23 13 20 33.1–1.4 36.3N–.10 71.57E–.09 119 3.7b 19 3-66
IDC II 23 13 20 24.3–6.5 35.72N 71.73E 52–55 3.8,3.6 ¶16398798
ISCJB II 23 13 20 31.3–1.1 36.21N–.08 71.60E–.09 119 3.6b,3.6
NNC II 23 13 20 32.0–3.9 36.21N 71.58E 127–44 3.7,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=45.1km s-min=30.3km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=10.2km az=22.3.
NNC Event type se. Error ellipse: s-maj=33.5km s-min=22.4km az=158.0.
NNC II 23 17 03 58.7–2.1 37.08N 71.19E 0 3.7b,3.4
¶16545024
NNC Event type se. Error ellipse: s-maj=17.2km s-min=8.4km az=172.0.
ISC II 23 17 44 16.8–.54 37.20N–.06 69.83E–.05 36 3.8b,3.6s 81 2-96
IDC II 23 17 44 11.0–.82 37.02N 70.00E 0 4.0,3.9 ¶16168910
NNC II 23 17 44 12.2–2.1 37.13N 70.09E 0 4.6b,4.5
ISCJB II 23 17 44 14.7–.38 37.22N–.03 69.78E–.05 36 3.7b,3.6s
MOS II 23 17 44 14.4–1.5 37.19N 69.93E 33 4.0b,3.6s
NEIC II 23 17 44 17.1–1.3 37.11N 69.98E 41–11 4.1b,3.6s
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=13.8km az=175.0.
NNC Event type se. Error ellipse: s-maj=17.6km s-min=8.9km az=15.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=4.7km az=28.7.
MOS Error ellipse: s-maj=11.5km s-min=5.6km az=83.7.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.5km az=198.0.
NNC II 23 20 44 16.7–3.6 37.07N 70.78E 109–100 3.5,3.0b
¶16545027
NNC Event type se. Error ellipse: s-maj=40.0km s-min=25.6km az=137.0.
NNC II 24 00 57 43.6–2.9 37.30N 71.61E 0 3.7b,3.4
¶16545030
NNC Event type se. Error ellipse: s-maj=25.3km s-min=11.2km az=164.0.
ISC II 24 01 18 35.4–.79 36.34N–.08 71.48E–.07 10 3.7b 28 3-82
IDC II 24 01 18 33.2–1.4 36.19N 71.53E 0 3.9L,3.8 ¶16398824
NNC II 24 01 18 46.8–2.4 37.12N 71.19E 0 4.2b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=27.6km s-min=18.5km az=137.0.
NNC Event type se. Error ellipse: s-maj=20.5km s-min=8.9km az=173.0.
NNC II 24 14 02 42.2–4.0 37.76N 71.99E 0 3.6b,3.2
¶16545055
NNC Event type se. Error ellipse: s-maj=36.1km s-min=13.7km az=156.0.
ISC II 24 15 45 25.3–.72 36.40N–.07 71.24E–.06 100 3.6b 51 3-81
ISCJB II 24 15 45 23.7–.44 36.25N–.04 71.14E–.06 100 3.6b ¶16168917
IDC II 24 15 45 24.0–5.0 36.12N 71.25E 104–29 3.9,3.6
NNC II 24 15 45 33.9–1.8 36.94N 71.16E 138–16 4.4,3.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.1km s-min=3.8km az=140.6.
IDC Error ellipse: s-maj=55.6km s-min=19.1km az=172.0.
NNC Event type se. Error ellipse: s-maj=16.5km s-min=9.7km az=161.0.
NNC II 26 05 27 36.7–5.2 36.78N 71.03E 0 3.6b,3.2
¶16552849
NNC Event type se. Error ellipse: s-maj=42.7km s-min=23.5km az=176.0.
NNC II 27 00 54 10.4–1.5 38.96N 70.95E 0 4.1b,3.8
¶16647683
NNC Event type se. Error ellipse: s-maj=20.1km s-min=4.0km az=151.0.
ISC II 27 03 13 52.5–1.5 36.5N–.10 71.22E–.09 100 3.5b 22 3-66

IDC II 27 03 13 49.9–6.0 36.19N 71.45E 96–51 4.3s,4.3 ¶16399085
ISCJB II 27 03 13 53.2–1.2 36.63N–.09 71.21E–.09 100 3.5b,4.3
NNC II 27 03 13 58.0–2.7 36.89N 71.05E 138–30 3.9,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=59.4km s-min=36.1km az=137.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=8.7km az=152.1.
NNC Event type se. Error ellipse: s-maj=25.3km s-min=14.8km az=155.0.
NNC II 28 01 27 22.8–7.5 37.18N 70.38E 71–187 3.9,3.7b
¶16647728

NNC Event type se. Error ellipse: s-maj=74.0km s-min=62.2km az=30.0.
ISC II 28 01 52 11.9–.46 36.60N–.05 71.24E–.05 188 4.0b 61 3-84
ISCJB II 28 01 52 11.5–.29 36.60N–.03 71.18E–.04 188 3.8b ¶16168945
IDC II 28 01 52 11.5–2.5 36.40N 71.31E 196–22 4.1,3.7
NNC II 28 01 52 19.0–1.1 37.03N 71.16E 212–7 4.5,3.4b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.4km az=144.6.
IDC Error ellipse: s-maj=19.0km s-min=11.3km az=168.0.
NNC Event type se. Error ellipse: s-maj=11.7km s-min=6.4km az=157.0.
NNC II 28 15 39 08.2–4.0 38.03N 71.97E 13–43 3.5b,3.3
¶16647758

NNC Event type se. Error ellipse: s-maj=52.2km s-min=9.9km az=150.0.
ISC III 01 09 54 04.7–1.7 37.2N–.10 71.83E–.10 200 3.3b 18 3-81
IDC III 01 09 54 04.0–8.9 36.95N 71.95E 217–54 3.7,3.1 ¶16484158
NNC III 01 09 54 08.4–3.6 37.52N 71.79E 189–34 3.8,2.7b
ISC Event type se.
IDC Error ellipse: s-maj=91.4km s-min=27.0km az=7.0.
NNC Event type se. Error ellipse: s-maj=37.3km s-min=17.1km az=148.0.
ISC III 02 01 23 41.5–.45 37.15N–.03 71.49E–.03 103–4 4.3b 265 3-90
ISCJB III 02 01 23 39.9–.40 37.21N–.02 71.50E–.03 96–4 4.3b ¶16170168
BJI III 02 01 23 41.4 37.13N 71.55E 99 4.7b,4.6b
MOS III 02 01 23 41.0–1.1 37.20N 71.53E 108 4.3b,4.6b
NEIC III 02 01 23 42.3–.58 37.20N 71.51E 108–5 4.4b,4.6b
IDC III 02 01 23 42.4–.82 37.14N 71.53E 112–6 4.3,4.0
NNC III 02 01 23 44.5–2.0 37.56N 71.06E 154–20 4.7,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.6km az=157.8.
MOS Error ellipse: s-maj=7.0km s-min=4.8km az=106.0.
NEIC Event type se. Error ellipse: s-maj=5.0km s-min=4.4km az=155.0.
IDC Error ellipse: s-maj=12.6km s-min=10.1km az=172.0.
NNC Event type se. Error ellipse: s-maj=20.6km s-min=11.7km az=157.0.
NNC III 02 15 06 38.6–9.5 37.07N 70.89E 0 3.5b,3.2
¶16553016

NNC Event type se. Error ellipse: s-maj=82.1km s-min=44.9km az=5.0.
ISC III 03 14 58 40.4–1.1 36.62N–.07 71.42E–.08 100 23 3-17
ISCJB III 03 14 58 40.4–.64 36.62N–.05 71.56E–.09 100 ¶16553066
NNC III 03 14 58 48.2–2.4 37.09N 71.21E 145–31 3.7,2.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=4.9km az=151.2.
NNC Event type se. Error ellipse: s-maj=23.0km s-min=13.7km az=149.0.
ISC III 05 01 44 48.3–.68 36.61N–.06 71.15E–.06 100 3.3b 43 3-81
IDC III 05 01 44 46.9–4.1 36.50N 71.22E 60–30 4.0L,3.9 ¶16303219
ISCJB III 05 01 44 47.2–.48 36.64N–.04 71.27E–.06 100 3.4b,3.9
NNC III 05 01 44 53.8–1.5 37.00N 71.03E 116–18 4.1,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=43.5km s-min=20.4km az=162.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.4km az=151.7.
NNC Event type se. Error ellipse: s-maj=14.1km s-min=7.7km az=151.0.
ISC III 05 13 35 48.2–.34 36.59N–.04 71.59E–.04 200 4.1b 179 3-150
IDC III 05 13 35 46.0–2.2 36.52N 71.45E 169–20 4.2,3.8 ¶16245333
MOS III 05 13 35 45.7–1.0 36.62N 71.58E 176 4.2b,3.8
ISCJB III 05 13 35 47.6–.18 36.66N–.02 71.68E–.03 200 4.0b,3.8
NNC III 05 13 35 50.7–1.5 37.01N 71.39E 171–13 4.6,3.5b
BJI III 05 13 35 56.8 37.07N 72.33E 200 4.6b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=13.5km s-min=10.2km az=4.0.
MOS Error ellipse: s-maj=8.3km s-min=4.9km az=112.2.
ISCJB Event type se. Error ellipse: s-maj=4.1km s-min=2.7km az=145.7.
NNC Event type se. Error ellipse: s-maj=14.6km s-min=7.9km az=157.0.
NNC III 05 23 17 10.2–1.6 37.02N 71.10E 0 3.6b,3.2
¶16557125

NNC Event type se. Error ellipse: s-maj=13.1km s-min=6.4km az=173.0.
ISC III 06 10 57 30.1–.32 36.48N–.04 71.26E–.04 250 4.2b 162 3-150
ISCJB III 06 10 57 29.5–.18 36.46N–.02 71.28E–.03 250 4.1b ¶16196719
BJI III 06 10 57 29.1 36.46N 71.26E 235 4.5b,4.3b
NEIC III 06 10 57 29.5–.60 36.44N 71.29E 231–6 4.3b,4.3b
MOS III 06 10 57 29.2–.92 36.52N 71.20E 234 4.3b,4.3b
IDC III 06 10 57 31.1–.63 36.43N 71.18E 244–6 4.3,3.8
NNC III 06 10 57 33.6–1.3 36.86N 71.17E 217–11 5.1,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.6km az=151.8.
NEIC Event type se. Error ellipse: s-maj=9.5km s-min=5.7km az=134.0.
MOS Error ellipse: s-maj=9.5km s-min=5.0km az=89.2.
IDC Error ellipse: s-maj=10.0km s-min=8.8km az=18.0.
NNC Event type se. Error ellipse: s-maj=14.3km s-min=8.2km az=149.0.
ISC III 06 13 43 48.3–3.1 37.0N–.20 71.73E–.07 10 8 3-6
NNC III 06 13 43 52.1–5.6 37.21N 71.67E 0 3.6b,3.3 ¶16557152
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=46.3km s-min=24.7km az=150.0.
ISC III 06 15 49 30.9–1.8 36.6N–.10 71.05E–.09 100 21 3-44
IDC III 06 15 49 31.5–5.6 36.64N 70.98E 95–31 3.6,3.5b ¶16484492
NNC III 06 15 49 35.2–2.0 36.94N 70.88E 169–22 3.6,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=65.7km s-min=19.8km az=153.0.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=11.2km az=142.0.
NNC III 06 16 23 15.9–3.1 37.10N 71.46E 0 3.6b,3.2
¶16557157

NNC Event type se. Error ellipse: s-maj=25.6km s-min=11.0km az=167.0.
ISC III 08 03 42 09.7–.76 36.84N–.06 71.33E–.06 100 31 3-66
ISCJB III 08 03 42 10.0–.55 36.92N–.04 71.24E–.06 100 3.1b ¶16484593
IDC III 08 03 42 14.6–5.4 37.29N 71.08E 118–44 3.6,3.1
NNC III 08 03 42 16.2–1.2 37.28N 71.12E 139–14 3.6,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=5.7km az=140.3.
IDC Error ellipse: s-maj=61.9km s-min=16.3km az=156.0.
NNC Event type se. Error ellipse: s-maj=11.9km s-min=5.3km az=160.0.
ISC III 10 00 45 40.2–.58 36.43N–.05 71.11E–.06 100 3.9b 54 3-81
IDC III 10 00 45 36.5–4.3 35.93N 71.33E 96–29 4.0,3.7 ¶16461154
ISCJB III 10 00 45 39.6–.41 36.45N–.03 71.24E–.06 100 3.9b,3.7
NNC III 10 00 45 46.4–2.9 36.85N 70.81E 168–21 4.5,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=45.2km s-min=19.6km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.0km az=153.4.
NNC Event type se. Error ellipse: s-maj=26.0km s-min=12.8km az=167.0.
NNC III 11 05 32 35.2–4.9 37.11N 71.40E 0 3.5b,3.1
¶16587396

NNC Event type se. Error ellipse: s-maj=37.9km s-min=20.4km az=162.0.
NNC III 12 10 15 45.8–3.1 37.68N 71.32E 0 3.6b,3.1
¶16587428

NNC Event type se. Error ellipse: s-maj=28.5km s-min=9.3km az=166.0.
ISC III 13 02 40 34.3–2.2 37.2N–.20 71.43E–.08 106 19 3-44
NNC III 13 02 40 35.5–1.8 37.30N 71.35E 136–18 4.0,3.1b ¶17194672
IDC III 13 02 40 36.5–9.1 37.29N 71.64E 129–61 4.3s,4.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.2km s-min=6.5km az=161.0.
IDC Error ellipse: s-maj=86.5km s-min=49.9km az=158.0.
NNC III 13 03 31 00.3–12 37.33N 70.69E 0 3.7b,3.3
¶16591680

NNC Event type se. Error ellipse: s-maj=103.8km s-min=55.6km az=171.0.
IDC III 13 17 48 10.2–4.0 36.61N 71.15E 63–31 3.8L,3.7
¶17194928

IDC Error ellipse: s-maj=43.4km s-min=21.0km az=162.0.

NNC III 13 23 16 52.8–2.0 37.45N 69.64E 0 4.1b,3.8
¶16591700

NNC Event type se. Error ellipse: s-maj=17.0km s-min=7.5km az=28.0.
ISC III 14 12 18 17.9–.86 38.72N–.08 70.28E–.05 27 3.6b 36 1-86
NNC III 14 12 18 10.8–2.4 38.33N 69.99E 174–16 3.9,2.9b ¶16477855
IDC III 14 12 18 13.1–.94 38.61N 70.42E 0 3.8,3.7
ISCJB III 14 12 18 15.8–.67 38.68N–.07 70.21E–.06 27 3.6b,3.7
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 15 02 38 18.3–1.5 36.7N–.10 71.09E–.10 188 3.6b 21 3-66
IDC III 15 02 38 15.5–4.0 36.35N 71.18E 178–29 3.8,3.4b ¶16461781
ISCJB III 15 02 38 17.3–1.2 36.64N–.09 71.1E–.10 188 3.7b,3.4b
NNC III 15 02 38 23.9–1.6 37.06N 71.04E 211–15 3.9,2.7b
ISC Event type se.
IDC Error ellipse: s-maj=54.2km s-min=22.4km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=15.6km s-min=7.8km az=138.4.
NNC Event type se. Error ellipse: s-maj=15.7km s-min=7.3km az=156.0.
ISC III 15 05 00 06.2–.43 36.98N–.05 71.66E–.05 106 3.8b 71 3-84
ISCJB III 15 05 00 04.7–.31 37.06N–.03 71.71E–.05 106 3.8b ¶16461785
IDC III 15 05 00 08.8–.81 37.12N 71.74E 122–6 4.1,3.8
NNC III 15 05 00 11.1–1.5 37.48N 71.40E 137–11 4.9,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.9km s-min=3.5km az=154.0.
IDC Error ellipse: s-maj=13.0km s-min=11.4km az=169.0.
NNC Event type se. Error ellipse: s-maj=14.5km s-min=5.1km az=163.0.
ISC III 16 12 47 34.8–.62 36.52N–.06 71.37E–.07 250 3.7b 36 3-66
IDC III 16 12 47 29.7–3.8 36.10N 71.37E 198–29 4.1,3.8 ¶16461818
ISCJB III 16 12 47 35.0–.45 36.53N–.04 71.33E–.07 250 3.7b,3.8
NNC III 16 12 47 39.5–2.6 36.90N 71.17E 228–37 4.5,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=45.1km s-min=21.5km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.6km az=156.2.
NNC Event type se. Error ellipse: s-maj=26.4km s-min=16.9km az=15.0.
ISC III 18 07 58 23.2–1.5 36.9N–.10 72.04E–.09 142 3.1b 22 3-81
ISCJB III 18 07 58 23.5–1.4 37.07N–.09 71.9E–.10 142 3.1b ¶16479117
IDC III 18 07 58 26.6–5.2 37.01N 71.75E 183–41 3.7s,3.7
NNC III 18 07 58 33.9–.81 37.61N 71.76E 189–9 4.1,3.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=12.4km az=26.3.
IDC Error ellipse: s-maj=54.0km s-min=23.6km az=163.0.
NNC Event type se. Error ellipse: s-maj=9.6km s-min=3.8km az=141.0.
ISC III 18 21 42 44.4–.51 36.65N–.05 71.00E–.06 188 3.7b 49 3-84
IDC III 18 21 42 43.4–2.6 36.40N 71.08E 187–23 4.0,3.6 ¶16461941
ISCJB III 18 21 42 43.1–.35 36.57N–.03 71.03E–.05 188 3.7b,3.6
NNC III 18 21 42 50.5–1.7 37.08N 71.01E 204–15 4.4,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=16.8km s-min=12.8km az=177.0.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.1km az=144.7.
NNC Event type se. Error ellipse: s-maj=14.5km s-min=11.2km az=27.0.
NNC III 19 05 37 42.4–3.1 38.87N 70.44E 0 4.0b,3.7
¶16630797

NNC Event type se. Error ellipse: s-maj=23.5km s-min=17.2km az=3.0.
ISC III 19 10 21 47.8–.68 36.36N–.05 71.10E–.07 100 4.2b 47 3-84
IDC III 19 10 21 39.0–.92 36.05N 71.38E 0 4.1,4.1 ¶16461977
ISCJB III 19 10 21 48.1–.45 36.39N–.03 71.29E–.07 100 3.9b,4.1
NNC III 19 10 21 54.1–3.5 36.74N 70.92E 127–36 4.5,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=20.1km s-min=18.4km az=65.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=3.8km az=161.2.
NNC Event type se. Error ellipse: s-maj=26.6km s-min=18.3km az=18.0.
ISC III 20 11 54 00.7–.73 36.37N–.08 71.85E–.09 124 3.5b 28 3-81
IDC III 20 11 53 58.5–3.6 36.19N 71.35E 85–29 3.9,3.7 ¶16462000
NNC III 20 11 54 06.5–4.3 36.81N 70.97E 148–36 4.1,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=25.7km s-min=18.7km az=169.0.
NNC Event type se. Error ellipse: s-maj=37.6km s-min=18.1km az=167.0.
ISC III 21 12 09 58.1–.52 37.06N–.05 71.68E–.05 150 3.9b 70 3-81
ISCJB III 21 12 09 59.0–.31 37.18N–.02 71.91E–.05 150 3.8b ¶16462065
IDC III 21 12 09 58.8–3.2 37.14N 71.78E 120–24 4.2,3.9
NNC III 21 12 10 03.3–1.0 37.53N 71.63E 152–9 4.8,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=169.2.
IDC Error ellipse: s-maj=31.6km s-min=12.2km az=178.0.
NNC Event type se. Error ellipse: s-maj=10.3km s-min=4.4km az=159.0.
NNC III 21 15 45 28.6–1.7 37.03N 71.45E 155–23 3.5,2.5b
¶16633223

NNC Event type se. Error ellipse: s-maj=16.3km s-min=7.4km az=155.0.
ISC III 22 18 59 11.1–.89 36.23N–.08 71.13E–.07 102 3.7b 29 7-66
IDC III 22 18 59 08.5–5.0 35.98N 71.29E 75–36 4.0,3.7 ¶16462100
ISCJB III 22 18 59 10.1–.57 36.22N–.05 71.24E–.08 102 3.7b,3.7
NNC III 22 18 59 15.4–3.1 36.54N 71.10E 110–41 4.4,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=58.2km s-min=25.8km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=5.9km az=148.8.
NNC Event type se. Error ellipse: s-maj=25.7km s-min=22.5km az=41.0.
ISC III 23 00 45 15.8–.26 37.31N–.03 71.83E–.03 10 4.7b,4.2s 357 3-96
IDC III 23 00 45 13.9–.57 37.19N 71.81E 0 4.5,4.4 ¶16342656
ISCJB III 23 00 45 14.5–.16 37.28N–.02 71.82E–.03 10 4.6b,4.1s
NNC III 23 00 45 15.8–3.3 37.33N 71.34E 0 5.2b,5.0
NEIC III 23 00 45 16.1–.24 37.34N 71.82E 10 4.8b,5.0
BJI III 23 00 45 18.6 37.30N 71.70E 72 4.9b,4.7b
MOS III 23 00 45 20.9–1.3 37.47N 71.72E 53 4.8b,4.7b
ISC Event type se.
IDC Error ellipse: s-maj=12.6km s-min=10.7km az=5.0.
ISCJB Event type se. Error ellipse: s-maj=3.2km s-min=2.8km az=20.4.
NNC Event type se. Error ellipse: s-maj=27.1km s-min=20.9km az=172.0.
NEIC Event type se. Error ellipse: s-maj=5.7km s-min=4.8km az=177.0.
MOS Error ellipse: s-maj=5.9km s-min=3.7km az=93.7.
ISC III 23 00 53 03.1–1.8 36.9N–.20 71.8E–.20 10 3.7b 18 6-81
IDC III 23 00 52 59.1–2.5 36.49N 72.37E 0 3.9,3.8 ¶16480343
ISCJB III 23 00 53 01.6–1.2 37.02N–.09 71.6E–.10 10 3.7b,3.8
NNC III 23 00 53 05.5–4.4 37.24N 71.59E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=49.9km s-min=25.4km az=136.0.
ISCJB Event type se. Error ellipse: s-maj=17.1km s-min=9.1km az=40.1.
NNC Event type se. Error ellipse: s-maj=34.4km s-min=27.1km az=155.0.
ISC III 23 01 31 32.6–.81 37.05N–.07 71.88E–.09 10 3.8b 31 6-84
ISCJB III 23 01 31 29.4–.52 37.07N–.05 71.83E–.08 10 3.8b ¶16462120
NNC III 23 01 31 29.5–5.9 36.99N 71.73E 0 4.4b,4.1
IDC III 23 01 31 36.4–5.1 37.20N 71.92E 33–36 3.8,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.4km az=158.1.
NNC Event type se. Error ellipse: s-maj=49.0km s-min=35.8km az=149.0.
IDC Error ellipse: s-maj=23.7km s-min=17.4km az=14.0.
NNC III 23 16 52 26.1–2.5 37.14N 71.47E 163–25 3.5,2.5b
¶16647820

NNC Event type se. Error ellipse: s-maj=22.7km s-min=10.5km az=160.0.
ISC III 23 21 48 50.6–.76 36.98N–.07 71.96E–.09 200 3.3b 28 3-81
IDC III 23 21 48 49.4–5.1 36.83N 72.11E 200–37 3.7,3.2 ¶16462134
ISCJB III 23 21 48 50.6–.58 37.04N–.04 71.87E–.09 200 3.0b,3.2
NNC III 23 21 48 56.5–6.5 37.59N 71.21E 0 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=55.8km s-min=26.4km az=151.0.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.0km az=158.4.
NNC Event type se. Error ellipse: s-maj=51.7km s-min=39.9km az=164.0.
NNC III 24 22 12 00.8–3.0 38.54N 70.57E 0 3.9b,3.5
¶16647855

NNC Event type se. Error ellipse: s-maj=25.1km s-min=23.8km az=113.0.
ISC III 25 01 31 47.0–1.3 36.6N–.10 71.16E–.09 200 3.3b 30 4-81
ISCJB III 25 01 31 45.4–1.0 36.54N–.08 71.21E–.10 200 3.3b ¶16462168

IDC III 25 01 31 45.7–4.2 36.45N 71.34E 203–27 3.8,3.2b
NNC III 25 01 31 53.1–1.8 37.01N 71.17E 211–21 3.8,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.3km s-min=7.5km az=138.3.
IDC Error ellipse: s-maj=44.2km s-min=17.1km az=166.0.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=14.2km az=60.0.
ISC III 25 04 42 00.6–1.4 37.2N–.10 71.11E–.10 200 3.4b 22 3-81
IDC III 25 04 41 53.1–5.0 36.61N 71.23E 155–40 3.6,3.2 **¶16480767**
ISCJB III 25 04 41 58.9–1.2 37.05N–.09 71.27E–.10 200 3.2b,3.2
NNC III 25 04 42 02.1–2.2 37.26N 71.01E 165–37 3.8,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=49.0km s-min=31.1km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=14.2km s-min=9.3km az=147.8.
NNC Event type se. Error ellipse: s-maj=23.7km s-min=17.1km az=63.0.
NNC III 25 15 42 07.9–4.5 37.98N 71.50E 0 3.6b,3.3
¶16647898

NNC Event type se. Error ellipse: s-maj=34.8km s-min=26.6km az=170.0.
ISC III 27 20 15 54.8–.68 36.91N–.06 71.15E–.07 200 3.5b 25 3-84
IDC III 27 20 15 54.4–2.6 36.40N 71.01E 193–22 3.9,3.4 **¶16455754**
ISCJB III 27 20 15 56.2–.35 36.71N–.03 71.02E–.05 200 3.5b,3.4
NNC III 27 20 16 05.9–3.5 37.39N 71.32E 259–33 3.9,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=19.2km s-min=14.5km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=3.7km az=158.6.
NNC Event type se. Error ellipse: s-maj=40.3km s-min=30.8km az=67.0.
ISC III 28 03 26 46.2–.69 36.50N–.07 71.40E–.08 200 3.4b 31 4-84
IDC III 28 03 26 45.7–2.6 36.42N 71.36E 198–22 3.8,3.4 **¶16475453**
ISCJB III 28 03 26 46.0–.47 36.58N–.04 71.22E–.07 200 3.4b,3.4
NNC III 28 03 26 52.6–3.3 37.17N 70.84E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=19.6km s-min=15.1km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=5.3km az=161.7.
NNC Event type se. Error ellipse: s-maj=26.5km s-min=23.5km az=144.0.
NNC III 28 07 48 47.1–3.0 37.78N 71.45E 0 3.6b,3.2
¶16684624

NNC Event type se. Error ellipse: s-maj=23.3km s-min=19.8km az=160.0.
ISC III 29 13 15 26.7–.39 36.74N–.03 71.45E–.04 180–3 4.4b 337 3-150
ISCJB III 29 13 15 24.6–.30 36.73N–.02 71.51E–.03 170–3 4.5b **¶16389110**
MOS III 29 13 15 24.6–.84 36.71N 71.47E 172 4.5b
BJI III 29 13 15 26.0 36.81N 71.52E 176 4.8b,4.6b
NEIC III 29 13 15 26.9–.24 36.73N 71.48E 183 4.5b,4.6b
IDC III 29 13 15 27.0–.69 36.61N 71.42E 183–6 4.5,4.1
NNC III 29 13 15 29.5–2.2 37.09N 71.29E 184–19 5.3,4.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.6km az=149.9.
MOS Error ellipse: s-maj=7.3km s-min=4.0km az=90.2.
NEIC Event type se. Error ellipse: s-maj=5.3km s-min=4.8km az=159.0.
IDC Error ellipse: s-maj=9.6km s-min=7.9km az=17.0.
NNC Event type se. Error ellipse: s-maj=19.8km s-min=15.8km az=27.0.
ISC III 29 13 39 50.9–1.2 37.0N–.10 71.49E–.08 10 3.6b 31 3-81
ISCJB III 29 13 39 49.6–.89 37.09N–.08 71.47E–.08 10 3.5b **¶16475670**
IDC III 29 13 39 49.4–1.6 37.01N 71.77E 0 3.8,3.6
NNC III 29 13 39 50.7–3.5 37.08N 71.06E 0 4.3b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.2km s-min=7.4km az=148.3.
IDC Error ellipse: s-maj=32.0km s-min=17.2km az=149.0.
NNC Event type se. Error ellipse: s-maj=31.2km s-min=23.0km az=156.0.
NNC III 30 00 26 41.4–3.1 37.01N 71.51E 0 3.5b,3.2
¶16684690

NNC Event type se. Error ellipse: s-maj=28.0km s-min=11.6km az=171.0.
NNC III 30 05 18 54.5–1.6 37.78N 67.79E 11–9 3.7b,3.2
¶16684696

NNC Event type se. Error ellipse: s-maj=17.2km s-min=10.3km az=124.0.
ISC III 30 13 19 45.6–.44 36.44N–.04 71.37E–.05 250 3.8b 79 3-150
IDC III 30 13 19 42.8–2.3 36.24N 71.35E 210–20 4.2,3.7 **¶17199203**
ISCJB III 30 13 19 45.6–.27 36.48N–.03 71.42E–.05 250 3.8b,3.7
NNC III 30 13 19 49.4–.96 36.84N 71.20E 218–6 4.7,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=15.8km s-min=10.8km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.3km az=151.8.
NNC Event type se. Error ellipse: s-maj=10.5km s-min=4.8km az=159.0.
ISC III 30 19 17 01.3–.84 36.47N–.06 71.05E–.07 188 42 3-20
IDC III 30 19 16 59.4–7.9 36.23N 71.09E 132–48 4.0,3.7b **¶16455794**
ISCJB III 30 19 17 02.0–.50 36.47N–.04 71.08E–.07 188 4.0,3.7b
NNC III 30 19 17 06.8–1.3 36.84N 70.99E 158–10 4.5,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=117.2km s-min=28.7km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.3km az=154.7.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=6.9km az=161.0.
ISC IV 01 08 26 42.2–1.0 36.83N–.09 71.73E–.09 106 3.3b 26 3-84
ISCJB IV 01 08 26 40.0–.80 36.70N–.07 71.76E–.08 106 3.4b **¶16705119**
IDC IV 01 08 26 44.8–4.0 36.91N 71.79E 130–31 3.7,3.3
NNC IV 01 08 26 49.9–2.5 37.36N 71.49E 161–23 4.2,3.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=8.9km az=146.6.
IDC Error ellipse: s-maj=28.2km s-min=19.6km az=6.0.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=9.6km az=161.0.
ISC IV 02 02 14 55.0–1.4 36.2N–.10 71.01E–.09 100 3.8b 24 3-82
IDC IV 02 02 14 54.0–5.8 35.99N 71.08E 107–41 3.9,3.6 **¶16506153**
NNC IV 02 02 15 01.6–1.8 36.61N 70.87E 133–17 4.1,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=54.4km s-min=28.9km az=150.0.
NNC Event type se. Error ellipse: s-maj=15.3km s-min=7.9km az=169.0.
ISC IV 03 20 38 40.8–1.5 36.94N–.08 71.2E–.10 100 13 4-15
ISCJB IV 03 20 38 41.2–1.2 37.07N–.06 71.2E–.10 100 **¶16713877**
NNC IV 03 20 38 45.0–5.8 37.46N 71.02E 6–170 4.2b,3.9
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.0km s-min=9.2km az=179.2.
NNC Event type se. Error ellipse: s-maj=180.3km s-min=23.4km az=14.0.
ISC IV 03 22 28 32.7–.61 37.36N–.05 71.97E–.06 130 3.7b 30 3-80
ISCJB IV 03 22 28 32.2–.45 37.43N–.04 72.05E–.06 130 3.6b **¶17208873**
IDC IV 03 22 28 34.5–3.4 37.38N 72.08E 163–24 3.9,3.5
NNC IV 03 22 28 40.3–2.2 37.82N 71.84E 176–30 3.9,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=4.2km az=148.6.
IDC Error ellipse: s-maj=38.0km s-min=14.4km az=154.0.
NNC Event type se. Error ellipse: s-maj=30.4km s-min=17.0km az=67.0.
NNC IV 04 07 27 52.9–2.4 37.48N 71.61E 160–41 3.9,3.0b
¶16713897

NNC Event type se. Error ellipse: s-maj=31.6km s-min=18.5km az=62.0.
ISC IV 05 07 35 39.8–1.7 37.7N–.10 71.47E–.10 142 3.8b 20 3-80
IDC IV 05 07 35 18.0–9.0 36.06N 72.19E 35–49 3.8,3.7 **¶16705661**
NNC IV 05 07 35 35.5–1.6 37.46N 71.44E 159–29 3.2,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=78.2km s-min=29.4km az=164.0.
NNC Event type se. Error ellipse: s-maj=21.7km s-min=12.2km az=66.0.
NNC IV 05 10 35 03.1–2.3 37.15N 70.65E 0 3.5b,3.1
¶16716966

NNC Event type se. Error ellipse: s-maj=18.3km s-min=10.8km az=166.0.
ISC IV 05 17 06 34.9–1.1 37.25N–.08 71.7E–.10 150 27 3-80
ISCJB IV 05 17 06 35.0–.66 37.22N–.05 71.93E–.09 150 2.7b **¶16705710**
IDC IV 05 17 06 41.4–8.7 37.69N 71.69E 165–56 3.3,2.8
NNC IV 05 17 06 42.0–1.2 37.69N 71.81E 170–14 4.0,2.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.1km s-min=4.8km az=153.7.
IDC Error ellipse: s-maj=89.1km s-min=73.8km az=114.0.
NNC Event type se. Error ellipse: s-maj=15.6km s-min=8.0km az=52.0.
NNC IV 07 15 35 57.0–3.3 37.55N 71.53E 148–48 3.6,2.7b
¶16719574

NNC Event type se. Error ellipse: s-maj=31.3km s-min=27.0km az=74.0.
NNC IV 08 07 38 52.3–3.5 37.25N 70.76E 0 3.7b,3.3
¶16719602

NNC Event type se. Error ellipse: s-maj=30.4km s-min=21.9km az=151.0.
ISC IV 08 08 59 13.6–.65 37.10N–.06 71.66E–.08 106 3.6b 33 3-84
ISCJB IV 08 08 59 12.9–.47 37.12N–.04 71.68E–.08 106 3.6b **¶16706033**
IDC IV 08 08 59 13.8–3.0 37.04N 71.81E 106–25 3.8,3.6
NNC IV 08 08 59 20.7–3.7 37.70N 71.69E 204–39 4.3,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=4.1km az=158.5.
IDC Error ellipse: s-maj=22.6km s-min=19.2km az=148.0.
NNC Event type se. Error ellipse: s-maj=40.9km s-min=30.3km az=67.0.
ISC IV 08 17 23 51.7–1.5 37.3N–.10 70.95E–.09 200 3.5b 20 3-44
NNC IV 08 17 23 43.5–2.7 36.81N 70.63E 151–51 3.8,2.9b **¶16706077**
IDC IV 08 17 23 49.3–7.9 36.37N 71.36E 230–180 3.6,3.2b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.1km s-min=20.4km az=70.0.
IDC Error ellipse: s-maj=288.9km s-min=35.1km az=144.0.
ISC IV 09 17 22 40.1–.64 36.64N–.06 71.15E–.06 150 3.5b 38 4-84
ISCJB IV 09 17 22 39.0–.43 36.60N–.04 71.15E–.05 150 3.5b **¶16455891**
IDC IV 09 17 22 39.3–2.7 36.39N 71.27E 166–23 3.8,3.4
NNC IV 09 17 22 47.0–3.2 37.05N 71.09E 174–39 3.9,2.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=4.5km az=146.3.
IDC Error ellipse: s-maj=20.4km s-min=13.9km az=171.0.
NNC Event type se. Error ellipse: s-maj=32.9km s-min=22.4km az=43.0.
ISC IV 09 21 48 58.7–.68 36.82N–.06 71.19E–.07 88 3.7b 37 4-84
ISCJB IV 09 21 48 57.5–.47 36.83N–.03 71.23E–.06 88 3.6b **¶16455895**
IDC IV 09 21 48 57.5–3.3 36.67N 71.29E 78–27 3.9,3.6
NNC IV 09 21 49 03.5–2.9 37.19N 71.06E 142–49 3.8,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.6km az=163.0.
IDC Error ellipse: s-maj=27.5km s-min=18.6km az=169.0.
NNC Event type se. Error ellipse: s-maj=29.1km s-min=23.6km az=59.0.
NNC IV 10 17 09 51.0–2.4 37.48N 71.12E 0 3.6b,3.2
¶16722543

NNC Event type se. Error ellipse: s-maj=18.3km s-min=16.7km az=152.0.
NNC IV 10 20 09 26.2–4.2 37.13N 71.43E 228–51 3.8,2.8b
¶16722545

NNC Event type se. Error ellipse: s-maj=49.5km s-min=37.1km az=73.0.
ISC IV 11 12 29 17.5–.95 36.53N–.07 71.4E–.10 200 3.2b 32 4-84
ISCJB IV 11 12 29 16.2–.59 36.53N–.04 71.29E–.08 200 3.2b **¶16706455**
IDC IV 11 12 29 19.3–4.0 36.54N 71.69E 224–37 4.0,3.7
NNC IV 11 12 29 22.4–2.2 36.96N 71.20E 225–22 4.4,3.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=4.7km az=161.7.
IDC Error ellipse: s-maj=30.2km s-min=23.1km az=23.0.
NNC Event type se. Error ellipse: s-maj=23.0km s-min=18.0km az=55.0.
ISC IV 13 02 11 04.7–2.2 37.8N–.20 71.7E–.10 150 15 3-80
NNC IV 13 02 11 03.4–1.1 37.76N 71.68E 140–20 3.4,2.5b **¶16706691**
IDC IV 13 02 11 04.9–8.7 37.77N 71.82E 142–58 3.5,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.2km s-min=8.5km az=72.0.
IDC Error ellipse: s-maj=128.2km s-min=71.2km az=109.0.
ISC IV 13 16 44 19.4–2.1 37.3N–.20 71.0E–.10 100 16 3-80
IDC IV 13 16 44 13.8–20 36.63N 71.53E 84–105 3.5,3.3 **¶16706771**
NNC IV 13 16 44 21.4–1.8 37.39N 71.00E 119–50 3.2,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=209.7km s-min=61.0km az=178.0.
NNC Event type se. Error ellipse: s-maj=22.7km s-min=14.5km az=80.0.
NNC IV 14 18 54 24.5–2.5 36.89N 71.14E 137–53 3.5,2.8b
¶16852733

NNC Event type se. Error ellipse: s-maj=32.5km s-min=20.2km az=78.0.
ISC IV 15 00 12 01.5–1.5 37.1N–.10 71.9E–.10 250 3.1b 22 3-81
ISCJB IV 15 00 12 00.5–1.1 37.06N–.09 71.8E–.10 250 3.2b **¶16706937**
IDC IV 15 00 12 00.3–4.2 36.90N 71.98E 253–27 3.4,2.9b
NNC IV 15 00 12 07.4–3.1 37.46N 72.10E 258–26 3.0,1.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.2km s-min=8.0km az=40.8.
IDC Error ellipse: s-maj=53.3km s-min=22.2km az=149.0.
NNC Event type se. Error ellipse: s-maj=31.6km s-min=26.4km az=80.0.
ISC IV 15 20 24 05.2–.59 36.07N–.06 71.07E–.06 100 4.0b 42 4-84
ISCJB IV 15 20 24 03.7–.43 36.03N–.04 71.02E–.05 100 3.8b **¶16505393**
IDC IV 15 20 24 06.0–2.9 36.10N 70.96E 103–25 4.0,3.6
SOME IV 15 20 24 07.1 37.67N 72.13E 0 4.0,3.6
NNC IV 15 20 24 15.3–3.0 36.80N 71.03E 191–48 4.3,3.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=4.2km az=138.9.
IDC Error ellipse: s-maj=18.8km s-min=15.2km az=169.0.
NNC Event type se. Error ellipse: s-maj=36.8km s-min=23.2km az=62.0.
ISC IV 16 12 10 34.1–.99 36.31N–.08 71.5E–.10 114 3.4b 16 4-81
ISCJB IV 16 12 10 32.9–.70 36.29N–.05 71.5E–.10 114 3.3b **¶16707093**
IDC IV 16 12 10 33.3–7.6 36.12N 71.45E 105–52 3.6,3.3
NNC IV 16 12 10 43.9–5.0 36.96N 71.09E 166–169 3.4,2.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=6.7km az=165.0.
IDC Error ellipse: s-maj=84.2km s-min=40.1km az=151.0.
NNC Event type se. Error ellipse: s-maj=113.1km s-min=33.0km az=66.0.
ISC IV 16 15 45 45.2–2.7 37.8N–.20 68.4E–.10 10 15 5-80
NNC IV 16 15 45 46.9–2.7 38.02N 68.55E 0 3.4b,3.0 **¶16707114**
IDC IV 16 15 45 55.2–10.0 39.09N 68.15E 0 3.6,3.5b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.4km s-min=13.8km az=18.0.
IDC Error ellipse: s-maj=265.9km s-min=44.2km az=159.0.
ISC IV 17 03 21 06.9–.57 36.48N–.05 71.56E–.07 114 3.8b 49 3-81
IDC IV 17 03 21 03.8–5.2 36.19N 71.61E 91–40 3.9,3.6 **¶16505413**
ISCJB IV 17 03 21 06.1–.36 36.52N–.03 71.61E–.06 114 3.6b,3.6
NNC IV 17 03 21 11.6–1.1 36.90N 71.23E 153–15 4.2,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=49.9km s-min=25.5km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=3.6km az=160.2.
NNC Event type se. Error ellipse: s-maj=9.7km s-min=7.5km az=49.0.
ISC IV 18 01 20 02.6–.47 36.27N–.04 71.32E–.05 119 4.0b 124 2-84
IDC IV 18 01 19 55.3–3.4 36.07N 71.12E 42–30 4.2L,4.1 **¶16505421**
NEIC IV 18 01 19 59.3–1.8 36.21N 71.15E 76–15 4.2b,4.1
ISCJB IV 18 01 20 01.4–.28 36.40N–.02 71.34E–.05 119 4.0b,4.1
MOS IV 18 01 20 01.1–1.4 36.46N 71.18E 100 4.3b,4.1
NNC IV 18 01 20 05.6–4.2 36.75N 70.75E 168–41 4.8,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=20.0km s-min=15.3km az=165.0.
NEIC Event type se. Error ellipse: s-maj=15.9km s-min=10.7km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=2.9km az=168.7.
MOS Error ellipse: s-maj=11.5km s-min=5.0km az=86.7.
NNC Event type se. Error ellipse: s-maj=36.9km s-min=27.1km az=29.0.
ISC IV 18 14 54 04.7–1.2 37.06N–.09 71.1E–.10 10 3.3b 20 4-85
ISCJB IV 18 14 54 03.3–.96 37.03N–.06 71.2E–.10 10 3.3b **¶16707308**
NNC IV 18 14 54 05.8–4.3 37.13N 71.07E 0 3.9b,3.5
IDC IV 18 14 54 05.7–1.4 37.18N 72.19E 0 3.6,3.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.0km s-min=9.0km az=3.8.
NNC Event type se. Error ellipse: s-maj=34.6km s-min=24.3km az=163.0.
IDC Error ellipse: s-maj=36.9km s-min=18.8km az=83.0.
NNC IV 18 15 52 17.6–3.4 37.03N 70.97E 102–106 3.6,2.9b
¶16852917

NNC Event type se. Error ellipse: s-maj=43.5km s-min=26.1km az=79.0.
NNC IV 20 00 29 28.1–3.4 37.15N 70.36E 0 3.9b,3.5
¶16872791

NNC Event type se. Error ellipse: s-maj=25.9km s-min=21.5km az=0.0.
ISC IV 20 08 18 50.0–.34 37.75N–.04 68.70E–.03 10 4.5b,3.8s 159 3-86
ISCJB IV 20 08 18 48.2–.23 37.77N–.03 68.79E–.03 10 4.4b,3.9s **¶16448749**
NNC IV 20 08 18 49.9–2.1 37.92N 68.47E 0 4.9b,4.5
BJI IV 20 08 18 50.5 38.19N 68.87E 10 4.6b,4.6b
NEIC IV 20 08 18 52.2–1.8 37.83N 68.76E 22–12 4.6b,4.6b

IDC IV 20 08 18 52.7–2.9 37.71N 68.80E 33–22 4.3,4.2
MOS IV 20 08 18 52.4–1.1 37.93N 68.72E 35 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=3.6km az=168.8.
NNC Event type se. Error ellipse: s-maj=15.9km s-min=13.9km az=40.0.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=5.7km az=149.0.
IDC Error ellipse: s-maj=13.9km s-min=9.7km az=1.0.
MOS Error ellipse: s-maj=7.5km s-min=4.9km az=73.6.
ISC IV 20 23 38 36.8–.66 36.90N–.06 71.44E–.06 100 3.5b 34 4-84
ISCJB IV 20 23 38 36.0–.45 36.90N–.04 71.33E–.06 100 3.5b ¶16707553
IDC IV 20 23 38 36.4–3.3 36.83N 71.45E 85–28 3.7,3.5
NNC IV 20 23 38 40.7–8.9 37.25N 70.97E 88–252 4.1,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.1km az=146.3.
IDC Error ellipse: s-maj=29.2km s-min=21.6km az=33.0.
NNC Event type se. Error ellipse: s-maj=86.9km s-min=70.5km az=96.0.
NNC IV 21 22 00 24.6–2.4 37.05N 70.35E 0 3.7b,3.4
¶16872857
NNC Event type se. Error ellipse: s-maj=19.7km s-min=15.9km az=154.0.
ISC IV 22 16 03 23.8–1.6 37.2N–.10 71.72E–.09 142 2.9b 21 3-84
IDC IV 22 16 03 20.4–3.6 36.83N 72.09E 148–30 3.7,3.2 ¶16707736
NNC IV 22 16 03 30.5–1.7 37.57N 72.01E 202–16 3.5,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=30.5km s-min=24.5km az=162.0.
NNC Event type se. Error ellipse: s-maj=17.4km s-min=14.5km az=65.0.
NNC IV 22 16 44 33.6–4.8 37.84N 71.65E 101–95 3.8,3.1b
¶16881739
NNC Event type se. Error ellipse: s-maj=40.0km s-min=37.0km az=94.0.
NNC IV 22 20 00 44.7–3.4 37.78N 71.41E 0 3.5b,3.1
¶16881744
NNC Event type se. Error ellipse: s-maj=25.4km s-min=21.2km az=169.0.
ISC IV 23 10 53 38.7–1.9 37.1N–.10 70.5E–.10 100 18 4-81
IDC IV 23 10 53 34.2–8.3 36.68N 70.93E 76–55 3.5,3.5b ¶16707784
NNC IV 23 10 53 37.7–3.8 37.04N 70.54E 116–94 3.3,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=71.7km s-min=50.1km az=162.0.
NNC Event type se. Error ellipse: s-maj=38.1km s-min=29.8km az=73.0.
ISC IV 23 13 59 21.9–.43 37.38N–.04 71.81E–.05 117–4 4.2b 144 3-84
ISCJB IV 23 13 59 18.5–.53 37.35N–.02 71.82E–.05 95–6 4.1b ¶16505507
BJI IV 23 13 59 22.6 37.90N 71.70E 134 4.4b,4.3b
IDC IV 23 13 59 22.6–.78 37.43N 71.78E 117–5 4.1,3.9
MOS IV 23 13 59 22.3–1.3 37.55N 71.81E 125 4.3b,3.9
NEIC IV 23 13 59 22.7–.42 37.49N 71.74E 121 4.5b,3.9
NNC IV 23 13 59 26.3–2.4 37.89N 71.60E 168–23 4.3,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=3.4km az=160.3.
IDC Error ellipse: s-maj=13.3km s-min=10.3km az=1.0.
MOS Error ellipse: s-maj=8.2km s-min=5.7km az=107.7.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=7.1km az=176.0.
NNC Event type se. Error ellipse: s-maj=22.9km s-min=17.4km az=42.0.
NNC IV 23 17 21 08.7–1.6 37.54N 71.53E 144–31 3.5,2.7b
¶16881762
NNC Event type se. Error ellipse: s-maj=22.2km s-min=13.4km az=71.0.
ISC IV 23 22 00 07.5–3.4 39.0N–.10 70.6E–.10 17 14 1-5
KRNET IV 23 22 00 04.0–.10 39.01N 70.59E 2.9b ¶16881769
NNC IV 23 22 00 06.7–4.4 38.83N 70.76E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=34.6km s-min=23.9km az=16.0.
ISC IV 24 16 37 13.6–1.0 36.63N–.08 71.11E–.07 100 21 4-60
IDC IV 24 16 37 09.7–22 36.83N 71.16E 0 4.1,4.1s ¶16707885
ISCJB IV 24 16 37 11.8–.57 36.47N–.06 70.99E–.07 100 3.8b,4.1s
NNC IV 24 16 37 22.9–1.7 37.18N 71.14E 98–38 3.8,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=415.3km s-min=31.3km az=160.0.
ISCJB Event type se. Error ellipse: s-maj=9.9km s-min=6.0km az=42.2.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=13.1km az=82.0.
ISC IV 25 00 54 33.6–.36 36.23N–.03 72.21E–.03 97–3 5.0b 812 2-151
ISCJB IV 25 00 54 30.5–.34 36.25N–.01 72.22E–.02 79–3 5.0b ¶16456691
BJI IV 25 00 54 31.2 36.25N 72.28E 78 5.1b,5.1b
NEIC IV 25 00 54 33.0–.49 36.23N 72.18E 90–4 5.0b,5.1b
MOS IV 25 00 54 33.4–.93 36.27N 72.25E 106 5.1b,5.1b
IDC IV 25 00 54 34.3–1.7 36.24N 72.16E 102–15 5.0,4.7
NNC IV 25 00 54 38.9–1.5 36.62N 72.13E 167–13 5.5,4.7b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=2.6km s-min=2.1km az=39.6.
NEIC Event type fe. Error ellipse: s-maj=3.4km s-min=2.4km az=188.0. Felt at Peshawar. Also felt at Asadabad and Kabul, Afghanistan.
MOS Error ellipse: s-maj=4.9km s-min=3.3km az=118.0.
IDC Error ellipse: s-maj=9.5km s-min=7.0km az=177.0.
NNC Event type se. Error ellipse: s-maj=12.7km s-min=11.7km az=22.0.
ISC IV 25 05 15 46.2–.42 37.54N–.05 71.80E–.05 130 4.1b 143 3-82
IDC IV 25 05 15 43.7–2.3 37.44N 71.83E 108–21 4.2,3.9 ¶16456699
ISCJB IV 25 05 15 43.6–.22 37.42N–.02 71.98E–.04 130 4.0b,3.9
MOS IV 25 05 15 43.8–1.3 37.49N 71.79E 118 4.4b,3.9
BJI IV 25 05 15 43.8 37.39N 71.97E 112 4.5b,4.5b
NEIC IV 25 05 15 44.5–.76 37.50N 71.81E 113–7 4.2b,4.5b
NNC IV 25 05 15 47.3–1.4 37.75N 71.73E 176–14 4.2,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=14.9km s-min=11.6km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.3km az=177.2.
MOS Error ellipse: s-maj=8.6km s-min=4.8km az=90.5.
NEIC Event type se. Error ellipse: s-maj=7.3km s-min=6.5km az=130.0.
NNC Event type se. Error ellipse: s-maj=14.8km s-min=10.8km az=46.0.
ISC IV 25 19 34 24.2–1.2 36.89N–.07 71.0E–.10 100 21 4-81
ISCJB IV 25 19 34 23.7–.78 36.87N–.05 71.2E–.10 100 3.1b ¶16707994
IDC IV 25 19 34 28.1–7.0 37.20N 70.93E 96–48 3.3,3.1
NNC IV 25 19 34 30.7–4.6 37.53N 70.74E 12–129 3.5b,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=5.7km az=163.7.
IDC Error ellipse: s-maj=126.2km s-min=34.2km az=136.0.
NNC Event type se. Error ellipse: s-maj=127.1km s-min=18.1km az=16.0.
ISC IV 26 09 33 19.8–1.8 36.6N–.20 71.0E–.20 100 13 4-81
IDC IV 26 09 33 17.7–8.0 36.39N 71.29E 94–56 3.7L,3.6 ¶16708044
NNC IV 26 09 33 20.9–3.6 37.02N 70.74E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=92.0km s-min=36.3km az=141.0.
NNC Event type se. Error ellipse: s-maj=41.2km s-min=24.5km az=133.0.
ISC IV 26 15 30 08.8–.74 37.20N–.06 71.25E–.06 88 27 3-81
IDC IV 26 15 30 00.7–7.1 36.36N 71.50E 49–39 3.8,3.7 ¶16708081
ISCJB IV 26 15 30 07.6–.52 37.15N–.04 71.18E–.06 88 3.5b,3.7
NNC IV 26 15 30 17.2–2.3 37.74N 71.33E 155–31 3.5,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=95.4km s-min=24.6km az=161.0.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=5.3km az=143.1.
NNC Event type se. Error ellipse: s-maj=23.4km s-min=17.7km az=54.0.
ISC IV 27 00 25 05.0–.59 36.71N–.06 71.34E–.06 200 3.4b 42 4-84
IDC IV 27 00 25 01.4–2.7 36.47N 71.31E 155–22 3.9,3.5 ¶16505544
ISCJB IV 27 00 25 04.5–.39 36.74N–.04 71.37E–.05 200 3.4b,3.5
NNC IV 27 00 25 09.2–1.8 37.12N 71.22E 191–22 4.0,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=14.6km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.4km az=148.6.
NNC Event type se. Error ellipse: s-maj=19.7km s-min=14.0km az=68.0.
ISC IV 27 04 01 02.0–1.5 36.5N–.10 71.0E–.10 188 3.2b 17 4-81
ISCJB IV 27 04 00 60.0–1.2 36.29N–.09 71.1E–.10 188 3.2b ¶16708135
IDC IV 27 04 01 01.9–5.1 36.41N 71.10E 193–40 3.5,3.0
NNC IV 27 04 01 07.5–4.2 37.11N 70.55E 0 4.1b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.7km s-min=10.0km az=137.9.
IDC Error ellipse: s-maj=69.7km s-min=33.0km az=137.0.
NNC Event type se. Error ellipse: s-maj=33.0km s-min=24.9km az=165.0.

ISC IV 27 14 44 51.7–.00 37.74N–.09 71.99E–.08 113 3.8b 29 3-82
IDC IV 27 14 44 49.7–3.1 37.50N 72.21E 104–25 3.9,3.6 ¶16505553
NNC IV 27 14 44 56.3–1.2 38.03N 72.05E 135–15 4.2,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=26.1km s-min=20.1km az=173.0.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=9.9km az=74.0.
ISC IV 29 03 57 25.0–.40 36.60N–.04 71.24E–.05 227–3 4.0b 120 3-84
ISCJB IV 29 03 57 23.0–.30 36.63N–.02 71.23E–.04 218–4 3.9b ¶16505575
MOS IV 29 03 57 23.0–1.3 36.55N 71.40E 223 4.1b
IDC IV 29 03 57 24.9–.56 36.53N 71.25E 226–3 4.2,3.7
BJI IV 29 03 57 26.1 36.83N 71.37E 224 4.4b,4.3b
NNC IV 29 03 57 28.1–1.1 36.98N 71.10E 213–10 5.0,3.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.8km az=172.5.
MOS Error ellipse: s-maj=11.0km s-min=5.6km az=88.4.
IDC Error ellipse: s-maj=11.8km s-min=8.1km az=160.0.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=5.6km az=156.0.
NNC IV 30 08 23 09.8–5.3 37.19N 71.23E 0 3.5b,3.1
¶16912224
NNC Event type se. Error ellipse: s-maj=45.3km s-min=18.0km az=169.0.
NNC V 01 13 09 06.1–2.8 38.91N 70.68E 0 3.6b,3.2
¶16912267
NNC Event type se. Error ellipse: s-maj=21.7km s-min=12.7km az=21.0.
ISC V 01 21 35 05.1–.87 37.32N–.07 71.88E–.09 150 3.7b 23 3-80
ISCJB V 01 21 35 04.6–.66 37.33N–.04 71.79E–.09 150 3.4b ¶16708531
IDC V 01 21 35 06.8–6.5 37.23N 72.22E 176–58 3.6,3.2
NNC V 01 21 35 13.6–2.4 37.82N 72.12E 193–22 3.8,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.8km s-min=5.1km az=160.8.
IDC Error ellipse: s-maj=87.6km s-min=30.9km az=137.0.
NNC Event type se. Error ellipse: s-maj=24.9km s-min=19.2km az=66.0.
ISC V 02 06 31 56.2–1.5 37.8N–.20 69.36E–.10 12 3.7s,3.6b 23 5-80
IDC V 02 06 31 53.0–1.8 37.55N 69.56E 0 3.9,3.7 ¶16708564
NNC V 02 06 31 53.1–2.9 37.67N 69.36E 0 4.1b,3.6
ISCJB V 02 06 31 54.4–1.3 37.8N–.10 69.33E–.09 12 3.8s,3.4b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC V 02 21 35 43.1–1.3 36.9N–.10 71.2E–.10 200 3.2b 19 4-84
IDC V 02 21 35 35.3–7.4 36.34N 71.28E 132–57 3.6,3.3 ¶16708649
NNC V 02 21 35 39.1–2.8 37.02N 70.72E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=66.7km s-min=26.8km az=58.0.
NNC Event type se. Error ellipse: s-maj=23.2km s-min=19.6km az=135.0.
NNC V 03 02 17 32.5–1.7 37.43N 71.67E 158–32 3.8,2.8b
¶16912314
NNC Event type se. Error ellipse: s-maj=24.0km s-min=13.7km az=68.0.
ISC V 03 16 42 32.5–1.7 36.3N–.10 71.07E–.10 100 3.1b 21 3-81
IDC V 03 16 42 27.7–5.9 35.81N 71.39E 90–36 3.6,3.3 ¶16708717
ISCJB V 03 16 42 34.3–1.2 36.55N–.08 71.11E–.08 100 3.2b,3.3
NNC V 03 16 42 39.9–1.9 37.07N 71.06E 0 3.9b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=78.6km s-min=23.9km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.0km az=149.6.
NNC Event type se. Error ellipse: s-maj=16.1km s-min=7.3km az=166.0.
ISC V 05 21 05 56.0–.93 36.65N–.07 71.33E–.07 106 3.8b 33 4-44
IDC V 05 21 05 53.5–8.9 36.13N 71.68E 140–33 3.7,3.4b ¶16578010
ISCJB V 05 21 05 55.2–.54 36.62N–.04 71.30E–.06 106 3.9b,3.4b
SOME V 05 21 05 57.2 36.82N 71.53E 0 3.9b,3.4b
NNC V 05 21 06 04.9–2.7 37.16N 71.38E 176–34 3.7,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=127.5km s-min=26.9km az=157.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=5.0km az=148.6.
NNC Event type se. Error ellipse: s-maj=27.8km s-min=21.9km az=64.0.
NNC V 05 22 44 25.7–17 37.86N 71.67E 24–482 3.5b,3.1
¶16915471
NNC Event type se. Error ellipse: s-maj=465.7km s-min=70.2km az=10.0.
ISC V 06 14 27 57.2–.69 36.29N–.07 71.09E–.06 50 3.7b 35 3-84
ISCJB V 06 14 27 55.4–.58 36.25N–.05 71.16E–.07 50 3.7b ¶16578029
IDC V 06 14 27 58.2–3.5 36.21N 71.25E 66–29 3.9,3.9L
NNC V 06 14 28 06.1–2.2 36.90N 70.82E 165–17 4.0,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=6.7km az=142.1.
IDC Error ellipse: s-maj=24.7km s-min=21.5km az=7.0.
NNC Event type se. Error ellipse: s-maj=20.4km s-min=9.9km az=167.0.
NNC V 07 15 57 57.8–9.5 37.16N 71.38E 0 3.5b,3.1
¶16918953
NNC Event type se. Error ellipse: s-maj=78.7km s-min=26.4km az=162.0.
NNC V 07 21 21 26.1–4.0 37.89N 71.81E 0 3.7b,3.1
¶16918958
NNC Event type se. Error ellipse: s-maj=35.4km s-min=10.8km az=162.0.
ISC V 08 19 07 07.6–1.4 36.45N–.09 71.45E–.09 100 17 3-15
ISCJB V 08 19 07 06.8–.81 36.40N–.06 71.5E–.10 100 ¶16930220
NNC V 08 19 07 15.3–1.2 37.02N 71.22E 160–14 3.8,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.5km s-min=5.9km az=149.3.
NNC Event type se. Error ellipse: s-maj=11.3km s-min=5.2km az=158.0.
ISC V 08 23 52 45.9–1.6 36.5N–.10 71.1E–.10 188 3.4b 19 3-66
ISCJB V 08 23 52 45.6–1.3 36.51N–.09 71.3E–.10 188 3.5b ¶16709212
IDC V 08 23 52 46.8–4.0 36.33N 71.35E 211–30 3.7,3.2b
NNC V 08 23 52 55.5–.70 37.09N 71.08E 210–6 3.5,2.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.3km s-min=8.5km az=143.7.
IDC Error ellipse: s-maj=54.2km s-min=19.9km az=146.0.
NNC Event type se. Error ellipse: s-maj=6.8km s-min=3.2km az=157.0.
ISC V 09 07 07 38.8–1.7 37.6N–.10 68.33E–.09 10 18 5-80
NNC V 09 07 07 23.7–4.3 36.60N 67.55E 0 3.9b,3.6 ¶16709244
IDC V 09 07 07 29.7–3.1 36.54N 68.80E 0 3.8,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=36.3km s-min=30.8km az=148.0.
IDC Error ellipse: s-maj=52.1km s-min=22.7km az=157.0.
NNC V 10 15 49 26.6–2.5 37.18N 71.24E 0 3.6b,3.2
¶16930282
NNC Event type se. Error ellipse: s-maj=21.5km s-min=8.2km az=170.0.
NNC V 10 16 03 51.5–4.6 36.97N 71.03E 0 3.6b,3.3
¶16930283
NNC Event type se. Error ellipse: s-maj=37.9km s-min=15.9km az=173.0.
ISC V 10 23 54 16.3–1.9 37.2N–.10 71.66E–.09 150 20 3-19
IDC V 10 23 54 11.0–9.9 36.60N 71.88E 152–61 3.7,3.1 ¶16709527
SOME V 10 23 54 15.3 38.13N 71.78E 20 3.7,3.1
NNC V 10 23 54 19.8–3.0 37.66N 71.32E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=139.2km s-min=24.4km az=158.0.
NNC Event type se. Error ellipse: s-maj=23.2km s-min=18.5km az=160.0.
NNC V 11 21 35 24.6–2.9 37.27N 71.08E 18–82 3.6b,3.2
¶16930317
NNC Event type se. Error ellipse: s-maj=98.7km s-min=8.2km az=157.0.
NNC V 12 02 20 03.7–4.5 37.15N 71.58E 0 3.6b,3.2
¶601218236
NNC Event type se. Error ellipse: s-maj=37.0km s-min=16.2km az=164.0.
ISC V 12 07 39 14.5–.61 36.51N–.05 71.01E–.07 188 3.5b 42 3-84
IDC V 12 07 39 10.7–4.2 36.23N 70.82E 155–35 4.0,3.6 ¶17203465
ISCJB V 12 07 39 14.1–.45 36.56N–.03 71.11E–.07 188 3.5b,3.6
NNC V 12 07 39 19.2–1.9 36.94N 70.83E 178–37 4.0,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=29.9km s-min=19.1km az=34.0.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=3.7km az=162.2.
NNC Event type se. Error ellipse: s-maj=30.5km s-min=12.2km az=129.0.
ISC V 13 11 46 50.1–.64 36.76N–.06 71.35E–.06 200 3.5b 33 3-82
IDC V 13 11 46 46.8–3.2 36.39N 71.29E 162–27 3.9,3.4 ¶16709772
ISCJB V 13 11 46 49.7–.46 36.71N–.05 71.23E–.06 200 3.4b,3.4

NNC V 13 11 46 56.4–3.5 37.27N 71.16E 194–62 3.9,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=20.2km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.6km az=135.4.
NNC Event type se. Error ellipse: s-maj=53.9km s-min=21.1km az=129.0.
ISC V 13 12 38 44.2–1.6 36.8N–.10 71.42E–.10 114 3.6b 22 3-66
IDC V 13 12 38 40.0–6.0 36.44N 71.66E 96–53 3.7,3.5b **¶16560048**
ISCJB V 13 12 38 44.6–1.3 36.91N–.09 71.43E–.09 114 3.7b,3.5b
NNC V 13 12 38 46.4–2.6 37.00N 71.25E 137–39 3.6,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=59.5km s-min=38.9km az=128.0.
ISCJB Event type se. Error ellipse: s-maj=13.1km s-min=8.8km az=155.4.
NNC Event type se. Error ellipse: s-maj=25.3km s-min=14.8km az=146.0.
ISC V 13 21 39 30.0–.29 36.55N–.03 71.02E–.03 237–2 4.8b 688 3-151
ISCJB V 13 21 39 28.1–.24 36.58N–.02 71.00E–.02 229–2 4.7b **¶16509654**
MOS V 13 21 39 28.8–.85 36.62N 71.06E 236 4.9b
GCMT V 13 21 39 29.8–.40 36.78N 70.92E 235–3 5.0W
NEIC V 13 21 39 29.8–.41 36.59N 71.01E 232–4 4.9b
IDC V 13 21 39 30.6–.56 36.57N 71.04E 243–5 5.0,4.4
NNC V 13 21 39 34.4–1.4 36.99N 71.05E 204–35 5.6,4.5b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.0km s-min=2.3km az=26.0.
MOS Error ellipse: s-maj=5.3km s-min=3.6km az=112.3.
GCMT Error ellipse: s-maj=3.3km s-min=3.3km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s15,c16; s65,c91; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}2.32±.16 $M_{\theta\theta}$0.22±.19; $M_{\phi\phi}$-2.54±.18; $M_{r\theta}$0.56±.15; $M_{\theta\phi}$1.02±.16; $M_{\phi r}$2.88±.16; Best double couple: NP1:ϕ_s4.00000°,δ71.00000°,λ108.00000°. NP2:ϕ_s139.00000°,δ27.00000°,λ48.00000°. Principal axes: T 3.9030,Plg60.0000°,Azm300.0000°; N 0.0940,Plg17.0000°,Azm177.0000°; P -3.9930,Plg23.0000°,Azm80.0000° $M_0$3.94800×10^{16}
NEIC Event type fe. Error ellipse: s-maj=3.5km s-min=2.9km az=167.0. Felt at Kabul, Charikar and Nuristan. Also felt at Rawalpindi, Pakistan and at Dushanbe, Tajikistan.
IDC Error ellipse: s-maj=7.4km s-min=6.0km az=165.0.
NNC Event type se. Error ellipse: s-maj=35.5km s-min=9.4km az=119.0.
NNC V 14 02 01 45.7–3.0 38.77N 70.46E 0 3.8b,3.6
¶16946180
NNC Event type se. Error ellipse: s-maj=31.4km s-min=7.4km az=152.0.
ISC V 14 10 38 24.3–1.5 36.5N–.10 71.1E–.10 200 3.7b 16 3-81
ISCJB V 14 10 38 22.2–1.2 36.4N–.10 71.1E–.10 200 3.5b **¶16709843**
IDC V 14 10 38 23.7–4.7 36.24N 71.18E 216–38 3.8,3.3b
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=16.0km s-min=12.0km az=139.5.
IDC Error ellipse: s-maj=45.5km s-min=27.9km az=151.0.
ISC V 14 15 24 00.9–.93 36.70N–.08 71.01E–.08 188 3.3b 28 3-84
IDC V 14 15 23 56.7–4.4 36.27N 70.91E 181–39 3.6,3.1 **¶16709863**
ISCJB V 14 15 23 59.5–.59 36.66N–.04 71.01E–.07 188 3.4b,3.1
NNC V 14 15 24 04.8–1.6 36.97N 70.92E 196–16 3.9,2.9b
ISC Event type se.
IDC Error ellipse: s-maj=31.9km s-min=24.8km az=16.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.8km az=150.7.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=8.8km az=142.0.
ISC V 17 00 30 40.2–.24 36.58N–.03 71.22E–.03 237–1 4.9b 895 3-150
ISCJB V 17 00 30 38.3–.24 36.56N–.02 71.24E–.02 227–2 4.9b **¶16523248**
MOS V 17 00 30 38.4–.91 36.58N 71.25E 230 4.9b
NEIC V 17 00 30 39.6–.45 36.59N 71.20E 227–4 4.9b
IDC V 17 00 30 40.8–.35 36.58N 71.23E 240–2 5.0,4.5
NNC V 17 00 30 45.8–1.8 37.23N 71.22E 213–13 5.3,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.0km az=29.1.
MOS Error ellipse: s-maj=5.2km s-min=3.3km az=118.9.
NEIC Event type se. Error ellipse: s-maj=3.7km s-min=2.7km az=186.0.
IDC Error ellipse: s-maj=7.7km s-min=5.6km az=177.0.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=9.5km az=155.0.
NNC V 17 10 35 20.7–2.6 37.47N 71.34E 0 3.7b,3.3
¶16951451
NNC Event type se. Error ellipse: s-maj=21.5km s-min=10.1km az=165.0.
ISC V 17 21 54 11.7–.95 36.73N–.09 71.19E–.09 250 3.2b 21 3-82
IDC V 17 21 54 10.6–9.2 36.53N 71.16E 254–82 3.6,3.1 **¶16710136**
ISCJB V 17 21 54 11.5–.65 36.77N–.05 71.08E–.09 250 3.1b,3.1
NNC V 17 21 54 16.8–2.4 37.03N 71.20E 230 3.1,2.4b
ISC Event type se.
IDC Error ellipse: s-maj=61.3km s-min=23.2km az=32.0.
ISCJB Event type se. Error ellipse: s-maj=10.5km s-min=5.9km az=153.3.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=11.6km az=162.0.
ISC V 17 22 23 21.6–.77 36.45N–.06 71.59E–.07 106 3.7b 22 3-81
IDC V 17 22 23 27.1–5.8 36.65N 71.36E 158–32 3.9,3.5 **¶16710139**
NNC V 17 22 23 31.6–7.4 37.08N 71.54E 0 4.2b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=65.7km s-min=23.4km az=153.0.
NNC Event type se. Error ellipse: s-maj=59.7km s-min=27.2km az=164.0.
NNC V 18 06 37 41.1–4.6 37.03N 70.85E 0 3.5b,3.1
¶16956119
NNC Event type se. Error ellipse: s-maj=35.5km s-min=20.3km az=169.0.
ISC V 18 18 01 41.6–1.5 37.2N–.10 71.39E–.08 109 3.9b 28 3-44
IDC V 18 18 01 36.6–7.9 36.68N 71.68E 93–30 3.8,3.6b **¶16560098**
NNC V 18 18 01 44.6–1.5 37.35N 71.42E 133–18 4.1,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=113.5km s-min=25.9km az=155.0.
NNC Event type se. Error ellipse: s-maj=13.4km s-min=7.2km az=151.0.
NNC V 18 19 23 03.5–13 37.20N 71.21E 0 3.5b,3.1
¶16956142
NNC Event type se. Error ellipse: s-maj=106.1km s-min=54.9km az=166.0.
NNC V 20 07 38 31.6–4.6 37.06N 71.60E 0 3.6b,3.2
¶16988734
NNC Event type se. Error ellipse: s-maj=36.8km s-min=20.1km az=161.0.
NNC V 20 18 06 04.0–1.7 36.95N 71.05E 0 3.6b,3.3
¶16988765
NNC Event type se. Error ellipse: s-maj=13.6km s-min=8.0km az=171.0.
NNC V 20 19 31 16.6–1.6 38.81N 70.38E 0 3.5b,3.2
¶16988767
NNC Event type se. Error ellipse: s-maj=20.3km s-min=3.7km az=156.0.
ISC V 21 03 38 42.1–.79 36.56N–.07 71.19E–.09 188 3.3b 28 3-81
IDC V 21 03 38 34.9–5.1 36.12N 70.81E 112–35 4.2s,4.2 **¶16710474**
NNC V 21 03 38 43.5–3.1 36.84N 70.57E 168–34 4.0,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=49.0km s-min=19.9km az=153.0.
NNC Event type se. Error ellipse: s-maj=31.8km s-min=18.9km az=146.0.
NNC V 21 07 59 05.1–17 36.58N 71.94E 0 3.6b,3.3
¶16988846
NNC Event type se. Error ellipse: s-maj=141.2km s-min=74.2km az=165.0.
ISC V 21 22 39 58.5–.84 36.33N–.07 71.12E–.06 100 28 3-41
IDC V 21 22 39 56.9–9.8 36.08N 71.13E 84–43 3.8,3.6b **¶16710554**
ISCJB V 21 22 39 58.1–.54 36.35N–.04 71.32E–.07 100 3.9b,3.6b
NNC V 21 22 40 06.2–2.4 36.80N 70.99E 144–23 4.0,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=159.0km s-min=27.5km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.4km az=150.8.
NNC Event type se. Error ellipse: s-maj=21.0km s-min=12.6km az=157.0.
NNC V 22 01 21 12.0–2.7 37.59N 71.04E 0 3.5b,3.2
¶16988881
NNC Event type se. Error ellipse: s-maj=22.0km s-min=10.2km az=163.0.
NNC V 22 01 43 49.4–2.2 37.49N 71.77E 241–25 3.7,2.6b
¶16988882
NNC Event type se. Error ellipse: s-maj=30.5km s-min=12.4km az=137.0.
ISC V 22 18 09 58.2–.71 36.50N–.06 71.37E–.06 114 3.8b 47 3-66
IDC V 22 18 09 53.9–4.8 36.03N 71.55E 69–32 4.0L,3.8 **¶16873227**
NEIC V 22 18 09 53.2–4.0 36.15N 71.33E 50–27 4.1b,3.8
ISCJB V 22 18 09 57.5–.47 36.55N–.03 71.44E–.06 114 3.7b,3.8
NNC V 22 18 10 04.6–2.0 36.90N 71.19E 126–28 4.3,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=57.7km s-min=26.2km az=145.0.

NEIC Event type se. Error ellipse: s-maj=40.4km s-min=21.3km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.2km az=155.6.
NNC Event type se. Error ellipse: s-maj=18.9km s-min=12.2km az=153.0.
NNC V 22 19 06 57.1–5.6 36.84N 71.55E 0 3.6b,3.2
¶16988909
NNC Event type se. Error ellipse: s-maj=44.5km s-min=25.6km az=165.0.
ISC V 22 19 30 06.3–.91 36.81N–.07 71.27E–.07 200 3.4b 34 3-41
ISCJB V 22 19 30 04.9–.51 36.72N–.04 71.29E–.06 200 3.2b **¶16710650**
IDC V 22 19 30 06.8–5.0 36.90N 71.18E 172–30 3.8,3.3
NNC V 22 19 30 09.7–2.0 37.03N 71.22E 183–16 4.2,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=4.9km az=149.4.
IDC Error ellipse: s-maj=66.7km s-min=20.7km az=149.0.
NNC Event type se. Error ellipse: s-maj=20.1km s-min=11.1km az=153.0.
ISC V 24 05 27 53.0–.72 36.61N–.07 71.06E–.08 200 3.4b 26 3-84
ISCJB V 24 05 27 52.5–.51 36.57N–.05 71.02E–.07 200 3.3b **¶16710782**
IDC V 24 05 27 52.6–3.1 36.37N 71.00E 201–26 3.7,3.3
NNC V 24 05 27 59.5–5.1 37.07N 70.83E 215–44 3.8,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.0km az=145.6.
IDC Error ellipse: s-maj=30.6km s-min=21.8km az=167.0.
NNC Event type se. Error ellipse: s-maj=53.0km s-min=31.7km az=142.0.
ISC V 25 19 09 02.4–.72 36.20N–.07 71.07E–.06 100 3.8b 32 3-66
IDC V 25 19 09 01.9–4.8 36.08N 71.09E 83–32 3.8,3.5 **¶16560143**
ISCJB V 25 19 09 03.1–.49 36.31N–.05 71.01E–.07 100 3.7b,3.5
NNC V 25 19 09 11.2–2.6 36.91N 70.74E 163–29 3.8,2.9b
ISC Event type se.
IDC Error ellipse: s-maj=56.3km s-min=22.0km az=150.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=4.6km az=144.3.
NNC Event type se. Error ellipse: s-maj=26.6km s-min=16.7km az=140.0.
NNC V 26 06 48 24.8–3.3 36.96N 71.30E 0 3.8b,3.5
¶17002840
NNC Event type se. Error ellipse: s-maj=26.4km s-min=12.9km az=168.0.
NNC V 28 05 13 59.6–5.0 37.19N 71.64E 0 3.5b,3.2
¶17029823
NNC Event type se. Error ellipse: s-maj=40.2km s-min=20.7km az=160.0.
NNC V 28 21 34 38.6–3.1 37.61N 71.51E 0 3.6b,3.2
¶17029844
NNC Event type se. Error ellipse: s-maj=24.1km s-min=11.5km az=151.0.
ISC V 29 21 54 18.5–1.5 36.59N–.08 71.2E–.10 188 11 3-7
ISCJB V 29 21 54 18.3–.96 36.58N–.05 71.2E–.10 188 **¶17030748**
NNC V 29 21 54 24.5–1.5 37.00N 71.00E 197–27 3.8,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.3km s-min=6.8km az=159.7.
NNC Event type se. Error ellipse: s-maj=24.0km s-min=9.5km az=129.0.
NNC V 30 06 14 29.8–1.6 37.00N 71.12E 0 3.6b,3.2
¶17030758
NNC Event type se. Error ellipse: s-maj=12.7km s-min=7.4km az=168.0.
ISC V 30 15 45 00.7–.77 36.59N–.07 71.08E–.07 200 3.5b 33 3-66
ISCJB V 30 15 45 00.2–.51 36.59N–.04 71.01E–.07 200 3.4b **¶16702314**
IDC V 30 15 45 00.4–3.9 36.47N 71.15E 213–27 3.9,3.8
NNC V 30 15 45 07.4–.94 37.05N 70.94E 224–8 3.8,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=4.4km az=150.8.
IDC Error ellipse: s-maj=48.2km s-min=20.2km az=145.0.
NNC Event type se. Error ellipse: s-maj=10.7km s-min=5.9km az=144.0.
NNC V 30 19 13 49.0–4.2 37.08N 71.43E 0 3.7b,3.3
¶17030786
NNC Event type se. Error ellipse: s-maj=33.0km s-min=18.0km az=164.0.
NNC V 30 20 56 54.5–1.6 37.65N 71.43E 0 4.0b,3.6
¶17030788
NNC Event type se. Error ellipse: s-maj=14.5km s-min=5.7km az=162.0.
NNC V 31 07 58 30.6–3.7 36.99N 71.04E 0 3.7b,3.3
¶17061059
NNC Event type se. Error ellipse: s-maj=30.1km s-min=15.4km az=170.0.
NNC V 31 09 44 56.7–2.4 37.24N 71.15E 2–20 3.9b,3.5
¶17061065
NNC Event type se. Error ellipse: s-maj=23.5km s-min=10.5km az=152.0.
ISC V 31 13 39 54.2–1.1 36.44N–.09 71.49E–.09 150 3.1b 21 3-84
ISCJB V 31 13 39 53.0–.89 36.45N–.06 71.5E–.10 150 3.2b **¶16702390**
IDC V 31 13 39 56.0–4.6 36.39N 71.36E 174–40 3.7,3.3
NNC V 31 13 40 03.9–1.6 37.01N 71.38E 154–42 4.1,3.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=9.0km az=7.5.
IDC Error ellipse: s-maj=34.4km s-min=21.4km az=30.0.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=10.1km az=127.0.
NNC V 31 14 14 55.9–2.4 37.52N 71.58E 0 3.6b,3.2
¶17061078
NNC Event type se. Error ellipse: s-maj=19.5km s-min=9.0km az=156.0.
NNC V 31 14 43 31.5–6.3 37.26N 71.33E 20–185 3.5b,3.1
¶17061079
NNC Event type se. Error ellipse: s-maj=223.2km s-min=17.5km az=156.0.
NNC VI 03 17 07 12.4–3.3 38.42N 71.07E 5–39 4.1b,3.8
¶17205109
NNC Event type se. Error ellipse: s-maj=46.6km s-min=8.2km az=158.0.
NNC VI 05 05 46 30.0–1.8 36.47N 71.44E 107–87 3.5,2.8b
¶17205280
NNC Event type se. Error ellipse: s-maj=25.3km s-min=12.8km az=104.0.
ISC VI 05 18 20 45.1–.68 37.11N–.06 71.54E–.06 106 3.6b 37 3-66
IDC VI 05 18 20 42.9–4.8 36.94N 71.65E 73–34 3.8,3.7L **¶17205350**
ISCJB VI 05 18 20 44.6–.47 37.11N–.04 71.61E–.06 106 3.7b,3.7L
NNC VI 05 18 20 49.9–2.2 37.46N 71.29E 157–24 4.0,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=58.2km s-min=24.9km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=5.0km az=152.7.
NNC Event type se. Error ellipse: s-maj=23.1km s-min=12.3km az=150.0.
ISC VI 06 21 19 16.1–.81 36.44N–.07 71.39E–.06 114 3.7b 28 3-69
ISCJB VI 06 21 19 15.1–.61 36.46N–.05 71.53E–.07 114 3.6b **¶16722622**
IDC VI 06 21 19 16.0–4.6 36.39N 71.47E 102–31 3.8,3.7
NNC VI 06 21 19 21.3–1.2 36.86N 71.18E 132–21 4.1,3.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.8km az=178.8.
IDC Error ellipse: s-maj=53.2km s-min=22.9km az=142.0.
NNC Event type se. Error ellipse: s-maj=13.5km s-min=7.3km az=140.0.
ISC VI 07 01 16 06.6–.47 37.17N–.05 71.90E–.06 142 3.9b 70 3-84
ISCJB VI 07 01 16 04.9–.29 37.16N–.03 71.97E–.05 142 3.9b **¶16722623**
IDC VI 07 01 16 05.6–.95 37.05N 71.69E 122–7 4.1,3.8
NNC VI 07 01 16 06.7–1.4 37.42N 71.45E 119–21 4.4,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.3km az=164.2.
IDC Error ellipse: s-maj=16.7km s-min=11.0km az=9.0.
NNC Event type se. Error ellipse: s-maj=14.9km s-min=7.6km az=149.0.
NNC VI 07 08 01 25.5–3.6 37.15N 71.04E 199–35 3.8,2.6b
¶17218407
NNC Event type se. Error ellipse: s-maj=38.7km s-min=20.2km az=145.0.
NNC VI 08 05 38 46.9–2.3 36.92N 71.23E 0 3.8b,3.5
¶17216411
NNC Event type se. Error ellipse: s-maj=19.1km s-min=10.1km az=173.0.
NNC VI 08 12 50 09.1–2.6 37.73N 71.89E 0 3.6b,3.3
¶17216438
NNC Event type se. Error ellipse: s-maj=23.2km s-min=8.7km az=154.0.
ISC VI 08 17 30 24.8–2.6 37.8N–.20 71.81E–.09 113 16 3-15
SOME VI 08 17 30 19.2 38.38N 72.17E 20 **¶17216449**
NNC VI 08 17 30 24.6–2.2 37.77N 71.88E 120–35 3.7,3.0b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.1km s-min=10.7km az=147.0.
ISC VI 09 03 00 26.8–.76 36.52N–.07 71.01E–.08 188 3.6b 35 3-84
IDC VI 09 03 00 23.5–3.0 36.22N 70.91E 165–27 3.8,3.4 **¶16720890**
ISCJB VI 09 03 00 26.2–.47 36.53N–.04 70.92E–.07 188 3.5b,3.4
NNC VI 09 03 00 32.7–5.2 36.99N 70.69E 199–43 4.0,2.9b
ISC Event type se.

IDC Error ellipse: s-maj=23.1km s-min=16.6km az=15.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.8km az=147.9.
NNC Event type se. Error ellipse: s-maj=54.0km s-min=29.4km az=148.0.
NNC VI 09 03 03 59.4–1.8 37.59N 68.76E 0 3.3b,3.2
IDC VI 09 03 04 46.8–8.9 39.81N 72.60E 0 3.3,3.3 **¶17205589**
NNC Event type se. Error ellipse: s-maj=20.0km s-min=12.6km az=89.0.
IDC Error ellipse: s-maj=119.4km s-min=48.2km az=67.0.
ISC VI 09 21 17 56.7–1.0 36.66N–.07 71.50E–.07 114 3.6b 28 3-66
IDC VI 09 21 17 52.4–5.9 36.05N 71.49E 136–56 3.7,3.3b **¶17205664**
ISCJB VI 09 21 17 55.7–.84 36.59N–.05 71.4E–.10 114 3.6b,3.3b
NNC VI 09 21 18 04.9–3.4 37.09N 71.14E 190–26 3.9,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=58.5km s-min=41.8km az=129.0.
ISCJB Event type se. Error ellipse: s-maj=12.8km s-min=6.2km az=160.1.
NNC Event type se. Error ellipse: s-maj=32.2km s-min=17.0km az=153.0.
ISC VI 10 01 33 58.7–.48 36.29N–.05 71.24E–.05 100 3.8b 81 3-84
IDC VI 10 01 33 55.7–3.3 36.22N 71.17E 56–29 4.2L,4.0 **¶16685950**
ISCJB VI 10 01 33 57.7–.35 36.38N–.03 71.40E–.06 100 3.8b,4.0
MOS VI 10 01 33 58.2–1.2 36.45N 71.24E 88 4.1b,4.0
NEIC VI 10 01 33 59.3–2.4 36.43N 71.23E 85–20 4.2b,4.0
NNC VI 10 01 34 01.0–1.9 36.58N 71.05E 120–71 4.3,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=20.2km s-min=13.1km az=180.0.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.9km az=159.7.
MOS Error ellipse: s-maj=12.1km s-min=6.0km az=88.6.
NEIC Event type se. Error ellipse: s-maj=21.1km s-min=12.0km az=184.0.
NNC Event type se. Error ellipse: s-maj=29.3km s-min=13.5km az=111.0.
ISC VI 10 03 03 05.7–.77 37.25N–.07 71.68E–.06 106 3.6b 35 3-80
ISCJB VI 10 03 03 04.1–.45 37.16N–.04 71.77E–.06 106 3.6b **¶17205678**
IDC VI 10 03 03 05.0–4.6 36.97N 71.78E 106–29 3.8,3.5
NNC VI 10 03 03 10.6–2.4 37.55N 71.48E 128–38 4.0,3.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=5.0km az=148.2.
IDC Error ellipse: s-maj=55.1km s-min=21.8km az=152.0.
NNC Event type se. Error ellipse: s-maj=23.1km s-min=12.3km az=146.0.
ISC VI 10 08 47 03.9–1.6 36.57N–.10 71.0E–.10 100 8 3-7
ISCJB VI 10 08 47 02.7–1.1 36.55N–.08 71.0E–.10 100 **¶17216475**
NNC VI 10 08 47 06.9–10 36.99N 70.90E 0 3.6b,3.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.6km s-min=6.8km az=148.7.
NNC Event type se. Error ellipse: s-maj=83.4km s-min=48.3km az=173.0.
NNC VI 10 11 30 04.8–14 37.30N 71.75E 0 3.2b,2.9
¶17216485
NNC Event type se. Error ellipse: s-maj=119.5km s-min=58.0km az=158.0.
NNC VI 11 11 29 27.9–3.1 36.94N 71.15E 0 4.0b,3.6
¶17216518
NNC Event type se. Error ellipse: s-maj=25.6km s-min=14.3km az=177.0.
ISC VI 12 01 51 02.2–.81 36.15N–.07 71.10E–.07 100 3.7b 25 3-82
ISCJB VI 12 01 51 01.2–.64 36.13N–.06 71.20E–.09 100 3.6b **¶17205808**
IDC VI 12 01 51 01.2–6.5 36.14N 71.22E 62–36 3.9L,3.7
NNC VI 12 01 51 11.3–3.1 36.85N 70.49E 61–52 3.6b,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=5.6km az=147.3.
IDC Error ellipse: s-maj=71.8km s-min=24.9km az=149.0.
NNC Event type se. Error ellipse: s-maj=30.2km s-min=14.5km az=152.0.
NNC VI 12 15 35 29.4–.94 37.08N 71.10E 193–12 3.5,2.5b
¶17218466
NNC Event type se. Error ellipse: s-maj=12.4km s-min=5.8km az=137.0.
ISC VI 13 02 15 21.8–.41 36.46N–.04 71.24E–.04 188 4.0b 170 3-84
ISCJB VI 13 02 15 21.0–.23 36.42N–.02 71.18E–.03 188 4.0b **¶16594426**
IDC VI 13 02 15 22.8–2.5 36.29N 71.16E 203–23 4.3,3.8
MOS VI 13 02 15 22.9–1.1 36.49N 71.24E 208 4.1b,3.8
NEIC VI 13 02 15 23.4–.88 36.43N 71.28E 208–8 4.3b,3.8
BJI VI 13 02 15 23.1 36.51N 71.26E 207 4.5b,4.4b
NNC VI 13 02 15 26.8–2.6 36.75N 71.15E 205–23 5.2,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=2.6km az=153.3.
IDC Error ellipse: s-maj=15.2km s-min=8.9km az=175.0.
MOS Error ellipse: s-maj=9.8km s-min=4.9km az=88.1.
NEIC Event type se. Error ellipse: s-maj=16.5km s-min=7.6km az=142.0.
NNC Event type se. Error ellipse: s-maj=22.7km s-min=18.6km az=37.0.
ISC VI 14 22 58 28.0–.53 36.04N–.05 72.67E–.05 49 3.9b 64 3-83
IDC VI 14 22 58 21.0–.90 35.92N 72.69E 0 3.9,3.8 **¶16730507**
ISCJB VI 14 22 58 26.2–.34 35.99N–.03 72.62E–.06 49 4.0b,3.4s
NNC VI 14 22 58 29.1–5.0 37.53N 72.46E 0 4.1b,3.7
NEIC VI 14 22 58 31.8–1.5 36.10N 72.63E 83–13 4.3b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=18.9km s-min=18.3km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=7.3km s-min=4.5km az=156.8.
NNC Event type se. Error ellipse: s-maj=35.5km s-min=27.3km az=162.0.
NEIC Event type se. Error ellipse: s-maj=11.9km s-min=9.5km az=130.0.
NNC VI 15 10 03 34.8–12 37.49N 71.28E 0 3.5b,3.1
¶17221829
NNC Event type se. Error ellipse: s-maj=103.3km s-min=48.5km az=160.0.
NNC VI 15 17 18 03.9–4.0 37.87N 71.72E 223–65 3.5,2.3b
¶17221844
NNC Event type se. Error ellipse: s-maj=49.3km s-min=29.7km az=33.0.
ISC VI 15 22 23 41.8–1.3 36.59N–.08 71.2E–.10 150 20 6-16
NNC VI 15 22 23 53.7–2.6 37.32N 71.34E 216–45 3.6,2.5b **¶17221851**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.1km s-min=18.5km az=25.0.
ISC VI 20 02 59 07.2–.51 37.23N–.05 71.93E–.05 150 3.6b 60 5-82
IDC VI 20 02 59 06.6–2.9 37.19N 71.85E 117–23 3.9,3.6 **¶16731004**
ISCJB VI 20 02 59 07.2–.36 37.24N–.03 72.08E–.06 150 3.6b,3.6
NNC VI 20 02 59 14.8–1.8 37.79N 71.71E 168–21 4.2,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=23.2km s-min=14.3km az=167.0.
ISCJB Event type se. Error ellipse: s-maj=7.5km s-min=3.3km az=156.0.
NNC Event type se. Error ellipse: s-maj=16.4km s-min=11.6km az=25.0.
NNC VI 21 16 19 37.5–12 37.19N 71.46E 0 3.5b,3.1
¶17240353
NNC Event type se. Error ellipse: s-maj=102.5km s-min=53.1km az=161.0.
ISC VI 22 02 55 06.2–.72 36.49N–.06 71.30E–.07 200 3.3b 30 3-84
ISCJB VI 22 02 55 06.2–.56 36.51N–.04 71.33E–.07 200 3.3b **¶17206720**
IDC VI 22 02 55 07.5–3.5 36.48N 71.27E 224–35 3.8,3.2
NNC VI 22 02 55 12.6–1.6 36.88N 71.23E 204–14 4.2,2.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.7km s-min=4.8km az=155.4.
IDC Error ellipse: s-maj=32.2km s-min=19.3km az=162.0.
NNC Event type se. Error ellipse: s-maj=16.5km s-min=8.6km az=146.0.
ISC VI 24 13 47 39.9–1.4 36.5N–.10 71.0E–.10 188 3.5b 17 6-84
IDC VI 24 13 47 37.3–8.5 36.32N 70.99E 171–70 3.8s,3.8 **¶17206873**
ISCJB VI 24 13 47 38.9–1.0 36.42N–.08 71.1E–.20 188 3.4b,3.8
NNC VI 24 13 47 46.6–2.7 36.94N 70.81E 179–61 3.5,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=73.7km s-min=29.1km az=51.0.
ISCJB Event type se. Error ellipse: s-maj=19.2km s-min=11.4km az=6.8.
NNC Event type se. Error ellipse: s-maj=30.4km s-min=17.3km az=25.0.
ISC VI 24 18 13 00.2–1.3 37.07N–.08 71.7E–.10 109 11 5-15
ISCJB VI 24 18 12 59.5–1.1 37.11N–.05 71.8E–.10 109 **¶17266153**
NNC VI 24 18 13 06.9–1.9 37.51N 71.72E 170–45 3.5,2.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.7km s-min=6.3km az=167.0.
NNC Event type se. Error ellipse: s-maj=22.1km s-min=12.1km az=11.0.
NNC VI 25 08 20 54.5–4.0 38.38N 71.79E 0 3.7b,3.3
¶17266173
NNC Event type se. Error ellipse: s-maj=37.2km s-min=10.7km az=146.0.
NNC VI 27 12 38 39.3–4.8 37.21N 71.57E 0 3.6b,3.2
¶17267980
NNC Event type se. Error ellipse: s-maj=38.8km s-min=19.9km az=161.0.
NNC VI 29 03 27 25.1–5.1 37.50N 70.38E 117–149 3.7,3.0b
¶17270288
NNC Event type se. Error ellipse: s-maj=44.2km s-min=40.1km az=173.0.
ISC VI 29 13 58 48.4–.41 36.57N–.05 71.13E–.05 188 3.7b 80 3-84
ISCJB VI 29 13 58 47.6–.29 36.59N–.03 71.11E–.04 188 3.9b **¶16702444**
IDC VI 29 13 58 48.8–2.1 36.44N 71.09E 194–20 4.1,3.6
NEIC VI 29 13 58 50.7–.94 36.64N 71.18E 217–9 4.5b,3.6
NNC VI 29 13 58 56.6–.70 37.28N 71.07E 284–31 4.3,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=3.1km az=156.2.
IDC Error ellipse: s-maj=11.5km s-min=9.1km az=1.0.
NEIC Event type se. Error ellipse: s-maj=21.4km s-min=10.0km az=127.0.
NNC Event type se. Error ellipse: s-maj=15.9km s-min=5.5km az=174.0.
ISC VI 30 09 11 23.0–1.3 36.67N–.07 71.32E–.09 106 14 3-7
ISCJB VI 30 09 11 22.3–.81 36.68N–.05 71.42E–.09 106 **¶17317241**
NNC VI 30 09 11 24.5–4.7 37.03N 71.39E 0 3.9b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.2km az=156.9.
NNC Event type se. Error ellipse: s-maj=38.3km s-min=16.7km az=168.0.

(718) Hindu Kush region.

ISC I 02 03 36 15.3–.68 36.27N–.03 68.90E–.03 29–4 5.0b,4.2s 516 3-148
IDC I 02 03 36 10.5–.39 36.16N 68.96E 0 4.8,4.8 **¶15902754**
ISCJB I 02 03 36 13.2–.75 36.27N–.02 69.03E–.02 23–5 4.9b,4.2s
MOS I 02 03 36 15.1–1.0 36.27N 68.96E 41 5.0b,4.0s
NEIC I 02 03 36 15.2–1.6 36.19N 68.97E 28–11 5.0b,4.0s
GCMT I 02 03 36 15.2–.50 36.35N 68.89E 29–1 4.8W,4.0s
BJI I 02 03 36 17.2 36.43N 69.07E 44 5.2L,5.0b
NNC I 02 03 36 19.4–2.5 36.56N 68.66E 128–31 5.0,4.6b
ISC Event type se.
IDC Error ellipse: s-maj=9.3km s-min=8.0km az=179.0.
ISCJB Event type se. Error ellipse: s-maj=2.9km s-min=2.3km az=23.2.
MOS Error ellipse: s-maj=6.1km s-min=4.8km az=106.7.
NEIC Event type se. Error ellipse: s-maj=4.4km s-min=3.5km az=189.0.
GCMT Error ellipse: s-maj=3.3km s-min=5.6km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Moment Tensor Solution. s29,c35; s60,c93; Duration: 0 Moment tensor: Scale 10^{16}Nm; M_{rr}1.98±.20 $M_{\theta\theta}$0.14±.12; $M_{\phi\phi}$-2.11±.12; $M_{r\theta}$-0.33±.23; $M_{\theta\phi}$0.05±.09; $M_{\phi r}$0.43±.15; Best double couple: NP1:ϕ_s350.00000°,δ52.00000°,λ78.00000°. NP2:ϕ_s188.00000°,δ40.00000°,λ104.00000°. Principal axes: T 2.0780,Plg79.0000°,Azm211.0000°; N 0.0850,Plg9.0000°,Azm357.0000°; P -2.1580,Plg6.0000°,Azm88.0000° $M_0$2.11800×10^{16}
NNC Event type se. Error ellipse: s-maj=18.1km s-min=14.6km az=31.0.
ISC I 02 06 23 59.5–.29 36.29N–.04 68.84E–.04 43 4.6b,3.7s 254 2-148
IDC I 02 06 23 52.8–.45 36.12N 68.91E 0 4.5,4.4 **¶15902779**
MOS I 02 06 23 57.0–1.6 36.37N 68.83E 33 4.6b,4.4
ISCJB I 02 06 23 57.8–.16 36.36N–.02 68.91E–.03 43 4.5b,3.8s
NEIC I 02 06 23 58.5–.32 36.31N 68.89E 35 4.5b,3.8s
NNC I 02 06 23 59.6–3.2 36.68N 68.41E 20–33 4.9,4.8b
BJI I 02 06 24 03.5 36.61N 69.54E 35 4.8b,4.5b
ISC Event type se.
IDC Error ellipse: s-maj=11.6km s-min=9.9km az=1.0.
MOS Error ellipse: s-maj=7.1km s-min=4.5km az=91.6.
ISCJB Event type se. Error ellipse: s-maj=3.0km s-min=2.5km az=168.3.
NEIC Event type se. Error ellipse: s-maj=7.1km s-min=5.8km az=152.0.
NNC Event type se. Error ellipse: s-maj=33.0km s-min=17.9km az=6.0.
ISC I 03 10 22 57.7–.61 36.86N–.06 69.30E–.06 10 3.7b 57 5-86
ISCJB I 03 10 22 56.1–.41 36.83N–.03 69.28E–.05 10 3.6b **¶16021241**
IDC I 03 10 22 56.9–.78 36.79N 69.48E 0 3.8,3.7
NNC I 03 10 23 02.8–2.3 37.12N 69.23E 19–12 4.1b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=4.7km az=156.8.
IDC Error ellipse: s-maj=14.9km s-min=12.9km az=132.0.
NNC Event type se. Error ellipse: s-maj=17.3km s-min=13.7km az=159.0.
ISC I 03 11 32 31.2–2.2 36.4N–.10 70.3E–.10 100 25 6-41
NNC I 03 11 32 30.3–2.3 36.31N 70.38E 89–54 3.7,3.4b **¶16394778**
IDC I 03 11 32 33.2–8.6 36.51N 70.34E 107–61 3.6,3.4b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.8km s-min=16.5km az=116.0.
IDC Error ellipse: s-maj=68.1km s-min=39.7km az=6.0.
ISC I 03 14 21 39.3–.52 36.78N–.04 69.30E–.05 10 3.8b,3.5s 90 4-86
ISCJB I 03 14 21 38.0–.38 36.90N–.03 69.27E–.05 10 3.8b,3.4s **¶16021244**
MOS I 03 14 21 38.4–2.6 36.70N 69.40E 33 4.1b,3.4s
IDC I 03 14 21 38.4–.82 36.75N 69.34E 0 3.9,3.8
NNC I 03 14 21 43.0–.99 37.13N 69.21E 10–4 4.4b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=3.9km az=159.3.
MOS Error ellipse: s-maj=10.7km s-min=5.3km az=84.3.
IDC Error ellipse: s-maj=16.5km s-min=13.6km az=1.0.
NNC Event type se. Error ellipse: s-maj=7.1km s-min=6.1km az=165.0.
ISC I 03 14 32 02.1–.76 36.78N–.09 69.38E–.07 10 3.4b 28 6-85
IDC I 03 14 32 00.8–1.1 36.71N 69.49E 0 3.6,3.5 **¶16394788**
ISCJB I 03 14 32 01.2–.46 36.88N–.05 69.33E–.06 10 3.3b,3.5
NNC I 03 14 32 01.2–2.2 36.79N 68.97E 0 4.1b,3.7
ISC Event type se.
IDC Error ellipse: s-maj=21.0km s-min=16.3km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=6.1km az=136.4.
NNC Event type se. Error ellipse: s-maj=33.7km s-min=20.0km az=115.0.
ISC I 03 14 43 31.0–.33 36.98N–.03 69.38E–.04 10 4.2b,4.2s 166 4-86
ISCJB I 03 14 43 28.9–.21 36.96N–.02 69.40E–.03 10 4.1b,4.1s **¶15902927**
IDC I 03 14 43 28.1–.68 36.72N 69.42E 0 4.1,4.1s
NEIC I 03 14 43 31.0–5.6 37.01N 69.28E 10–36 4.5b,4.1s
MOS I 03 14 43 32.4–1.5 36.95N 69.37E 36 4.3b,4.1s
NNC I 03 14 43 35.9–2.1 37.37N 69.36E 4–11 4.7b,4.3
BJI I 03 14 43 41.3 37.36N 69.81E 92 4.7b,4.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.9km az=163.4.
IDC Error ellipse: s-maj=14.5km s-min=11.8km az=176.0.
NEIC Event type se. Error ellipse: s-maj=14.5km s-min=8.2km az=190.0.
MOS Error ellipse: s-maj=7.4km s-min=5.0km az=91.0.
NNC Event type se. Error ellipse: s-maj=16.0km s-min=12.3km az=141.0.
ISC I 03 15 14 00.9–.81 36.88N–.10 69.18E–.07 37 3.2b 24 6-81
IDC I 03 15 13 54.1–1.9 36.57N 69.31E 0 3.5,3.5L **¶17189332**
ISCJB I 03 15 13 59.7–.55 37.02N–.05 69.09E–.06 37 3.2b,3.5L
ISC Event type ke.
ISCJB Event type ke.
ISC I 03 17 46 01.1–.29 36.88N–.03 69.37E–.04 10 4.4b,4.1s 253 4-86
ISCJB I 03 17 45 59.7–.16 36.91N–.02 69.39E–.03 10 4.3b,4.1s **¶15908065**
IDC I 03 17 46 02.5–3.4 36.81N 69.39E 21–21 4.3,4.2
NEIC I 03 17 46 02.5–2.7 36.80N 69.35E 19–17 4.5b,4.2
MOS I 03 17 46 03.8–1.3 37.01N 69.38E 40 4.5b,4.0s
BJI I 03 17 46 05.6 37.18N 70.04E 10 4.8b,4.5b
NNC I 03 17 46 06.6–1.4 37.19N 69.21E 23–7 4.9b,4.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.1km s-min=2.3km az=152.2.
IDC Error ellipse: s-maj=11.7km s-min=9.5km az=176.0.
NEIC Event type se. Error ellipse: s-maj=6.4km s-min=4.8km az=173.0.
MOS Error ellipse: s-maj=6.2km s-min=4.4km az=96.8.
NNC Event type se. Error ellipse: s-maj=10.0km s-min=8.1km az=178.0.
ISC I 03 17 59 58.3–.72 36.89N–.06 69.23E–.06 10 4.1s,3.5b 33 6-86
ISCJB I 03 17 59 55.1–.43 36.83N–.04 69.21E–.05 10 4.1s,3.3b **¶16394808**
IDC I 03 17 59 55.6–.89 36.79N 69.42E 0 4.1,4.1s
NNC I 03 18 00 03.7–2.0 37.22N 69.56E 0 4.1b,3.7
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.8km az=147.1.
IDC Error ellipse: s-maj=16.1km s-min=14.8km az=102.0.
NNC Event type se. Error ellipse: s-maj=19.3km s-min=14.6km az=114.0.
ISC I 04 15 00 55.0–.42 36.75N–.05 69.22E–.05 10 3.9b,3.5s 106 4-86
BJI I 04 15 00 53.5 37.09N 68.95E 12 4.5b,4.3L **¶15964343**
ISCJB I 04 15 00 53.6–.27 36.80N–.03 69.21E–.03 10 3.8b,3.5s
IDC I 04 15 00 53.5–.77 36.71N 69.25E 0 3.9,3.8L
NNC I 04 15 00 55.6–3.4 36.98N 68.82E 0 4.3b,4.2
NEIC I 04 15 00 57.6–4.8 36.86N 69.23E 22–35 4.2b,4.2

MOS I 04 15 00 57.8–1.5 36.94N 69.17E 33 4.2b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.4km s-min=3.3km az=140.5.
IDC Error ellipse: s-maj=16.8km s-min=13.2km az=178.0.
NNC Event type se. Error ellipse: s-maj=30.1km s-min=27.0km az=30.0.
NEIC Event type se. Error ellipse: s-maj=18.1km s-min=9.5km az=186.0.
MOS Error ellipse: s-maj=9.4km s-min=5.7km az=85.3.
ISC I 05 00 12 41.2–3.3 36.7N–.20 70.2E–.20 200 13 6-15
NNC I 05 00 12 42.3–8.0 36.79N 70.20E 189–172 3.6,2.6b **¶16414733**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=87.2km s-min=44.8km az=16.0.
ISC I 05 03 08 01.7–1.4 36.6N–.10 71.0E–.10 188 3.4b 19 6-81
IDC I 05 03 07 59.3–4.7 36.31N 71.20E 183–35 3.6,3.2 **¶16021251**
ISCJB I 05 03 08 01.0–1.1 36.62N–.09 70.9E–.20 188 3.5b,3.2
NNC I 05 03 08 06.5–4.3 37.09N 70.97E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=47.5km s-min=26.5km az=147.0.
ISCJB Event type se. Error ellipse: s-maj=19.6km s-min=10.0km az=30.0.
NNC Event type se. Error ellipse: s-maj=43.3km s-min=32.0km az=102.0.
ISC I 05 07 56 22.7–.53 36.93N–.06 69.16E–.06 37 3.6b 42 4-86
IDC I 05 07 56 17.7–.84 36.76N 69.39E 0 3.9,3.8 **¶16021254**
ISCJB I 05 07 56 21.3–.44 36.96N–.04 69.25E–.06 37 3.6b,3.8
NNC I 05 07 56 23.6–6.5 37.08N 68.82E 99–119 4.0,3.7b
ISC Event type se.
IDC Error ellipse: s-maj=16.0km s-min=13.3km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.1km az=172.3.
NNC Event type se. Error ellipse: s-maj=49.7km s-min=45.5km az=37.0.
ISC I 05 21 39 29.1–2.6 36.6N–.20 70.1E–.20 10 11 6-81
IDC I 05 21 39 24.1–4.7 36.09N 70.31E 0 3.4,3.3 **¶16395037**
NNC I 05 21 39 33.3–4.4 37.14N 69.24E 13–20 3.5b,3.1
ISC Event type se.
IDC Error ellipse: s-maj=67.4km s-min=42.1km az=166.0.
NNC Event type se. Error ellipse: s-maj=40.2km s-min=28.8km az=126.0.
ISC I 06 21 11 08.7–.51 35.85N–.05 70.26E–.07 110 3.9b 70 2-84
ISCJB I 06 21 11 07.1–.35 35.73N–.03 70.24E–.05 110 3.9b **¶16021261**
IDC I 06 21 11 07.3–2.8 35.74N 69.98E 85–25 4.1,3.9
NNC I 06 21 11 16.8–2.5 36.40N 69.86E 149–22 4.4,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.2km az=158.7.
IDC Error ellipse: s-maj=18.7km s-min=12.0km az=14.0.
NNC Event type se. Error ellipse: s-maj=22.5km s-min=18.0km az=83.0.
ISC I 09 01 53 23.1–.73 36.40N–.06 70.80E–.06 100 3.6b 42 6-84
IDC I 09 01 53 17.1–3.3 35.98N 71.12E 61–28 3.8,3.7 **¶16395277**
ISCJB I 09 01 53 21.9–.57 36.37N–.04 70.84E–.06 100 3.6b,3.7
NNC I 09 01 53 25.4–6.0 36.56N 70.61E 104–112 4.5,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=19.0km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=6.5km s-min=6.0km az=22.1.
NNC Event type se. Error ellipse: s-maj=44.6km s-min=38.6km az=13.0.
ISC I 09 20 51 33.9–1.1 36.2N–.10 66.54E–.07 35 3.4b 33 7-62
IDC I 09 20 51 29.0–1.3 35.92N 66.61E 0 3.7,3.7 **¶16395354**
ISCJB I 09 20 51 32.0–.86 36.29N–.08 66.56E–.06 33 3.4b,3.7
NNC I 09 20 51 33.0–2.4 36.46N 66.62E 0 4.0b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=24.7km s-min=16.8km az=155.0.
ISCJB Event type se. Error ellipse: s-maj=11.9km s-min=5.9km az=156.3.
NNC Event type se. Error ellipse: s-maj=28.0km s-min=14.6km az=152.0.
ISC I 10 04 29 38.1–.91 36.17N–.08 70.78E–.07 102 3.4b 36 6-82
IDC I 10 04 29 32.5–6.0 35.69N 71.11E 57–37 3.9,3.8L **¶16395394**
ISCJB I 10 04 29 36.4–.51 36.09N–.04 70.74E–.06 102 3.5b,3.8L
NNC I 10 04 29 44.6–4.5 36.75N 70.32E 79–116 4.1,3.8b
ISC Event type se.
IDC Error ellipse: s-maj=78.8km s-min=24.7km az=146.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.6km az=141.3.
NNC Event type se. Error ellipse: s-maj=38.1km s-min=31.8km az=121.0.
ISC I 10 05 48 03.8–2.3 36.7N–.20 70.24E–.08 100 3.5b 26 6-83
IDC I 10 05 47 58.7–5.5 36.13N 70.52E 118–48 3.7,3.3 **¶16395400**
NNC I 10 05 48 05.3–3.1 36.72N 70.25E 108–59 3.9,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=40.6km s-min=30.7km az=178.0.
NNC Event type se. Error ellipse: s-maj=23.2km s-min=20.8km az=23.0.
ISC I 13 04 14 13.4–1.0 36.68N–.08 70.4E–.10 213 3.5b 31 5-44
ISCJB I 13 04 14 12.2–.66 36.66N–.05 70.37E–.09 213 3.5b **¶17190030**
IDC I 13 04 14 13.2–8.2 36.70N 70.30E 199–56 3.8,3.3
NNC I 13 04 14 16.2–5.3 36.91N 70.29E 204–56 3.4,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.0km s-min=5.7km az=157.0.
IDC Error ellipse: s-maj=72.2km s-min=23.1km az=10.0.
NNC Event type se. Error ellipse: s-maj=47.9km s-min=33.1km az=8.0.
ISC I 13 21 33 43.6–4.8 36.9N–.20 69.7E–.20 10 12 6-14
NNC I 13 21 33 45.7–10 36.88N 69.65E 140–253 3.7,2.9b **¶600818922**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=92.8km s-min=75.7km az=16.0.
ISC I 15 01 40 42.6–1.8 36.8N–.10 70.8E–.10 150 13 6-66
IDC I 15 01 40 37.9–8.8 36.55N 70.80E 111–58 3.6,3.1 **¶16395889**
ISCJB I 15 01 40 39.8–1.4 36.63N–.09 70.9E–.10 150 3.2b,3.1
NNC I 15 01 40 43.5–4.1 36.81N 70.83E 154–97 3.5,2.6b
ISC Event type se.
IDC Error ellipse: s-maj=124.9km s-min=23.8km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=15.2km s-min=10.8km az=34.4.
NNC Event type se. Error ellipse: s-maj=45.7km s-min=26.6km az=48.0.
ISC I 15 19 56 05.3–2.2 36.7N–.10 70.7E–.10 150 28 6-41
NNC I 15 19 56 06.7–1.8 36.81N 70.63E 152–21 3.7,3.0b **¶16395960**
IDC I 15 19 56 07.0–9.1 36.77N 70.90E 172–60 3.8,3.6b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.6km s-min=11.4km az=32.0.
IDC Error ellipse: s-maj=83.1km s-min=49.8km az=175.0.
ISC I 16 09 27 35.9–.68 36.51N–.06 70.45E–.09 213 3.5b 41 3-81
IDC I 16 09 27 30.9–3.4 36.12N 70.42E 181–25 3.9,3.4 **¶16151549**
ISCJB I 16 09 27 34.3–.40 36.48N–.04 70.38E–.07 213 3.5b,3.4
NNC I 16 09 27 35.9–7.5 37.17N 69.68E 0 3.9b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=33.0km s-min=16.3km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=7.9km s-min=4.5km az=161.4.
NNC Event type se. Error ellipse: s-maj=69.7km s-min=47.1km az=161.0.
ISC I 17 07 08 17.4–1.2 36.6N–.10 68.4E–.10 24 3.4b 23 7-107
IDC I 17 07 08 11.0–2.3 36.16N 68.63E 0 3.7,3.6 **¶16396089**
ISCJB I 17 07 08 15.9–1.1 36.69N–.10 68.4E–.10 24 3.3b,3.6
NNC I 17 07 08 21.0–3.9 36.65N 68.58E 111–74 3.6,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=53.1km s-min=19.0km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=8.9km az=141.4.
NNC Event type se. Error ellipse: s-maj=41.4km s-min=30.4km az=111.0.
ISC I 17 11 35 08.2–3.4 36.4N–.20 68.5E–.20 10 13 7-81
IDC I 17 11 35 03.9–3.0 36.02N 68.77E 0 3.5,3.5 **¶17190400**
NNC I 17 11 35 12.3–4.0 36.52N 68.90E 14–22 3.7b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=68.5km s-min=35.4km az=131.0.
NNC Event type se. Error ellipse: s-maj=40.4km s-min=26.5km az=107.0.
ISC I 17 16 51 01.3–2.2 36.4N–.20 69.40E–.08 48 32 7-44
IDC I 17 16 50 44.5–5.4 35.26N 69.63E 0 3.9b,3.7 **¶15931759**
NEIC I 17 16 50 51.2–4.1 35.40N 69.61E 48–31 4.8b,3.7
NNC I 17 16 51 07.1–3.5 36.65N 69.58E 145–57 3.9,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=87.0km s-min=24.8km az=159.0.
NEIC Event type se. Error ellipse: s-maj=40.5km s-min=17.6km az=203.0.
NNC Event type se. Error ellipse: s-maj=29.2km s-min=25.3km az=33.0.
ISC I 18 17 19 03.2–2.4 36.8N–.20 70.9E–.10 100 3.4b 23 6-81
IDC I 18 17 18 56.2–5.3 36.20N 71.35E 86–34 3.6,3.4 **¶16396220**
NNC I 18 17 19 03.5–4.4 36.81N 70.82E 128–110 3.5,3.0b
ISC Event type se.

IDC Error ellipse: s-maj=63.5km s-min=21.0km az=142.0.
NNC Event type se. Error ellipse: s-maj=36.1km s-min=30.1km az=18.0.
NNC I 19 06 26 52.8–4.6 36.82N 69.19E 0 3.6b,3.4
¶16449282
NNC Event type se. Error ellipse: s-maj=41.7km s-min=31.1km az=141.0.
NNC I 19 10 30 25.9–3.5 36.73N 69.97E 0 3.8b,3.2
¶16449294
NNC Event type se. Error ellipse: s-maj=35.9km s-min=24.7km az=129.0.
ISC I 20 11 44 35.8–1.3 36.5N–.10 70.8E–.20 188 3.3b 16 6-84
ISCJB I 20 11 44 34.3–.96 36.42N–.08 70.9E–.20 188 3.4b **¶16396381**
IDC I 20 11 44 36.8–5.8 36.45N 71.07E 200–47 3.9,3.4
NNC I 20 11 44 39.9–4.0 37.02N 70.68E 0 4.5b,4.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=20.2km s-min=10.6km az=9.2.
IDC Error ellipse: s-maj=54.6km s-min=22.3km az=50.0.
NNC Event type se. Error ellipse: s-maj=35.4km s-min=30.1km az=93.0.
ISC I 22 03 03 49.1–1.4 36.4N–.10 71.0E–.10 100 3.7b 32 6-81
IDC I 22 03 03 43.8–5.7 35.83N 71.49E 89–44 3.9s,3.9 **¶16396511**
ISCJB I 22 03 03 49.0–1.1 36.48N–.08 71.01E–.09 100 3.6b,3.9
NNC I 22 03 03 52.0–3.4 36.63N 70.78E 107–74 3.9,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=54.9km s-min=32.7km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=12.1km s-min=9.1km az=140.4.
NNC Event type se. Error ellipse: s-maj=26.9km s-min=25.1km az=70.0.
NNC I 23 03 50 36.9–3.0 36.99N 70.87E 0 3.8b,3.4
¶16453034
NNC Event type se. Error ellipse: s-maj=27.7km s-min=20.0km az=132.0.
NNC I 24 00 22 38.5–5.8 36.60N 70.47E 0 3.8b,3.5
¶16453059
NNC Event type se. Error ellipse: s-maj=49.8km s-min=43.5km az=129.0.
NNC I 26 08 47 26.8–6.8 36.58N 69.37E 0 3.5b,3.0
¶16461052
NNC Event type se. Error ellipse: s-maj=62.9km s-min=46.0km az=141.0.
ISC I 26 18 02 47.8–3.1 36.8N–.20 70.8E–.10 200 15 6-16
NNC I 26 18 02 47.5–3.7 36.84N 70.74E 178–60 3.9,2.9b **¶16461083**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=39.1km s-min=22.2km az=44.0.
NNC I 27 03 23 12.9–4.5 36.73N 70.56E 0 3.6b,3.2
¶16464716
NNC Event type se. Error ellipse: s-maj=48.0km s-min=33.3km az=115.0.
ISC I 30 05 12 45.2–2.0 36.5N–.10 69.1E–.10 48 9 7-50
IDC I 30 05 12 38.3–5.7 36.41N 69.35E 0 3.6,3.5 **¶16397186**
ISC Event type ke.
IDC Error ellipse: s-maj=104.7km s-min=22.4km az=153.0.
ISC I 31 03 46 25.7–1.3 36.6N–.10 68.36E–.08 24 3.5b 31 7-84
IDC I 31 03 46 19.2–1.3 36.14N 68.71E 0 3.7,3.6 **¶16397286**
ISCJB I 31 03 46 23.8–.87 36.60N–.08 68.38E–.07 24 3.4b,3.1s
NNC I 31 03 46 27.6–1.9 36.51N 68.44E 124–38 3.6,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=25.3km s-min=20.1km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=4.9km az=149.4.
NNC Event type se. Error ellipse: s-maj=16.8km s-min=14.2km az=135.0.
ISC I 31 04 11 53.4–.78 36.16N–.06 70.68E–.08 110 3.6b 64 6-84
IDC I 31 04 11 41.2–.88 35.77N 70.50E 0 4.0,3.9 **¶16022428**
NEIC I 31 04 11 51.5–2.5 36.06N 70.53E 72–19 4.1b,3.9
ISCJB I 31 04 11 53.3–.42 36.22N–.03 70.74E–.06 110 3.6b,3.9
NNC I 31 04 11 57.7–1.5 36.54N 70.45E 129–19 4.3,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=19.0km s-min=17.3km az=177.0.
NEIC Event type se. Error ellipse: s-maj=23.6km s-min=12.9km az=183.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=3.8km az=159.9.
NNC Event type se. Error ellipse: s-maj=12.0km s-min=9.4km az=37.0.
ISC I 31 10 43 50.6–2.9 36.7N–.20 70.8E–.10 100 18 6-16
NNC I 31 10 43 52.3–2.2 36.82N 70.84E 120–38 3.7,3.1b **¶16487834**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=17.1km s-min=15.9km az=14.0.
ISC II 01 16 59 08.8–2.9 37.0N–.20 70.6E–.10 200 17 6-16
NNC II 01 16 59 09.4–3.6 37.02N 70.69E 224–46 3.6,2.6b **¶16487883**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=34.4km s-min=23.5km az=22.0.
ISC II 02 13 26 32.1–1.8 36.4N–.10 70.15E–.08 110 3.8b 28 6-65
IDC II 02 13 26 21.9–6.1 35.61N 70.63E 72–43 3.7,3.5 **¶16397462**
NNC II 02 13 26 31.6–3.8 36.39N 70.23E 98–84 3.7,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=65.3km s-min=27.0km az=145.0.
NNC Event type se. Error ellipse: s-maj=32.5km s-min=28.1km az=122.0.
ISC II 04 19 28 18.8–.30 36.76N–.03 68.54E–.04 30 4.5b,4.1s 284 2-148
NNC II 04 19 28 07.8–1.4 36.18N 68.22E 11–8 5.0b,4.8 **¶16006238**
IDC II 04 19 28 13.9–.52 36.61N 68.49E 0 4.3,4.3
NEIC II 04 19 28 16.9–3.1 36.79N 68.56E 17–20 4.8b,4.3
ISCJB II 04 19 28 17.0–.17 36.78N–.02 68.62E–.02 30 4.5b,4.2s
BJI II 04 19 28 18.0 37.07N 68.65E 20 4.9b,4.9s
MOS II 04 19 28 19.1–1.4 36.91N 68.61E 45 4.8b,4.7s
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.6km s-min=9.0km az=179.0.
IDC Error ellipse: s-maj=12.8km s-min=9.9km az=177.0.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=6.2km az=198.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.6km az=26.6.
MOS Error ellipse: s-maj=5.8km s-min=4.3km az=94.8.
ISC II 04 20 46 45.7–1.6 36.8N–.20 68.41E–.10 30 15 7-81
IDC II 04 20 46 39.7–2.3 36.45N 68.66E 0 3.7b,3.6 **¶16397614**
ISCJB II 04 20 46 43.7–1.3 36.8N–.10 68.36E–.09 30 3.4b,3.6
NNC II 04 20 46 47.4–3.4 37.12N 68.31E 0 3.8b,3.4
ISC Event type se.
IDC Error ellipse: s-maj=47.3km s-min=21.7km az=145.0.
ISCJB Event type se. Error ellipse: s-maj=17.4km s-min=6.6km az=150.3.
NNC Event type se. Error ellipse: s-maj=40.3km s-min=25.6km az=116.0.
ISC II 04 23 17 16.9–2.8 36.5N–.30 68.5E–.10 24 9 8-81
IDC II 04 23 17 13.5–3.4 36.39N 68.72E 0 3.5,3.4 **¶17191702**
ISC Event type ke.
IDC Error ellipse: s-maj=67.8km s-min=24.4km az=148.0.
ISC II 05 11 10 03.8–.52 36.71N–.06 68.48E–.05 24 4.1b,3.6s 98 2-86
NNC II 05 11 09 59.3–2.1 36.63N 68.20E 0 4.5b,4.1 **¶16328722**
IDC II 05 11 09 59.7–.91 36.63N 68.50E 0 4.1,4.0
NEIC II 05 11 10 01.3–.61 36.68N 68.43E 10 4.2b,4.0
MOS II 05 11 10 01.3–1.2 36.82N 68.42E 17 4.3b,4.0
ISCJB II 05 11 10 01.4–.33 36.68N–.04 68.48E–.04 24 4.0b,3.6s
BJI II 05 11 10 06.2 37.02N 68.72E 33 4.9b,4.2b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=27.2km s-min=15.0km az=99.0.
IDC Error ellipse: s-maj=18.4km s-min=12.7km az=178.0.
NEIC Event type se. Error ellipse: s-maj=10.9km s-min=8.1km az=190.0.
MOS Error ellipse: s-maj=9.7km s-min=5.5km az=85.2.
ISCJB Event type se. Error ellipse: s-maj=5.3km s-min=4.2km az=15.3.
ISC II 05 12 21 53.6–2.1 36.3N–.20 70.99E–.10 100 19 3-81
IDC II 05 12 21 31.0–4.5 34.92N 70.93E 0 3.4,3.4 **¶16397658**
NNC II 05 12 21 58.9–4.5 36.71N 70.72E 147–42 3.7,2.9b
ISC Event type se.
IDC Error ellipse: s-maj=75.2km s-min=51.3km az=145.0.
NNC Event type se. Error ellipse: s-maj=40.1km s-min=24.7km az=159.0.
ISC II 06 14 53 07.7–1.0 36.56N–.08 70.09E–.09 213 27 2-85
IDC II 06 14 53 03.1–4.1 36.13N 70.24E 190–43 3.6,3.0 **¶16397724**
ISCJB II 06 14 53 07.0–.65 36.55N–.05 70.04E–.09 213 3.0b,3.0
NNC II 06 14 53 11.7–1.9 36.84N 70.18E 206–41 3.2,2.1b
ISC Event type se.
IDC Error ellipse: s-maj=41.0km s-min=26.8km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=10.7km s-min=5.6km az=151.6.
NNC Event type se. Error ellipse: s-maj=52.1km s-min=15.0km az=133.0.
NNC II 07 23 22 44.0–9.6 36.83N 71.00E 0 3.8b,3.4
¶16501910
NNC Event type se. Error ellipse: s-maj=75.3km s-min=45.7km az=174.0.

ISC II 08 03 48 19.7–1.5 36.6N–.10 70.77E–.08 100 3.4b 31 3-81
IDC II 08 03 48 17.8–8.2 36.43N 71.02E 88–56 3.7,3.5L ¶16397818
NNC II 08 03 48 18.9–1.6 36.61N 70.61E 140–15 3.8,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=65.6km s-min=28.9km az=3.0.
NNC Event type se. Error ellipse: s-maj=13.8km s-min=9.0km az=160.0.
ISC II 09 13 31 58.9–.76 36.48N–.07 70.82E–.09 188 3.5b 48 6-84
ISCJB II 09 13 31 58.5–.49 36.46N–.04 70.78E–.07 188 3.4b ¶16328786
IDC II 09 13 31 59.5–2.7 36.42N 71.01E 203–22 3.8,3.4
NNC II 09 13 32 10.1–11 37.23N 71.06E 250–133 3.8,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.4km s-min=4.3km az=153.1.
IDC Error ellipse: s-maj=21.1km s-min=15.3km az=172.0.
NNC Event type se. Error ellipse: s-maj=119.1km s-min=63.1km az=3.0.
NNC II 11 06 23 10.4–8.0 36.66N 70.71E 0 3.7b,3.2
¶16509506
NNC Event type se. Error ellipse: s-maj=66.8km s-min=38.7km az=9.0.
ISC II 12 06 32 16.4–2.2 36.3N–.20 69.4E–.10 48 22 3-82
IDC II 12 06 32 11.3–3.2 36.14N 69.93E 0 3.6,3.6 ¶16398051
NNC II 12 06 32 18.1–1.4 36.42N 69.30E 119–16 3.7,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=54.2km s-min=26.8km az=149.0.
NNC Event type se. Error ellipse: s-maj=14.1km s-min=11.8km az=146.0.
ISC II 12 11 52 41.7–3.7 36.0N–.20 69.9E–.10 10 18 3-17
NNC II 12 11 52 43.7–4.7 36.07N 69.91E 13–28 4.0b,3.7 ¶16509555
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=30.6km s-min=25.7km az=102.0.
NNC II 13 01 15 47.4–11 36.09N 70.74E 170–161 3.6,2.6b
¶16512116
NNC Event type se. Error ellipse: s-maj=128.6km s-min=82.6km az=143.0.
NNC II 14 07 10 17.6–3.1 36.94N 70.86E 0 3.7b,3.3
¶16512155
NNC Event type se. Error ellipse: s-maj=27.1km s-min=13.6km az=2.0.
ISC II 16 13 39 16.6–1.5 36.5N–.10 69.39E–.09 48 3.3b 24 7-81
IDC II 16 13 39 09.5–2.5 36.29N 69.64E 0 3.7,3.6 ¶16398346
ISCJB II 16 13 39 15.2–1.2 36.6N–.10 69.33E–.07 48 3.4b,3.3s
NNC II 16 13 39 19.1–4.0 36.71N 69.34E 31–31 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=43.1km s-min=24.1km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=16.0km s-min=7.0km az=160.1.
NNC Event type se. Error ellipse: s-maj=35.4km s-min=25.7km az=102.0.
ISC II 16 18 16 40.9–.38 36.38N–.03 69.52E–.03 28–2 4.7b,4.4s 345 3-96
BJI II 16 18 16 35.0 36.50N 69.30E 10 5.2L,5.1b ¶16029810
IDC II 16 18 16 36.4–.49 36.30N 69.58E 0 4.6,4.6
ISCJB II 16 18 16 37.7–.81 36.42N–.02 69.61E–.02 15–6 4.7b,4.4s
NEIC II 16 18 16 40.3–2.1 36.35N 69.53E 24–15 4.8b,4.4s
NNC II 16 18 16 41.5–1.6 36.53N 69.23E 33 5.3,5.3b
MOS II 16 18 16 41.2–1.1 36.49N 69.61E 39 5.1b,4.6s
ISC Event type se.
IDC Error ellipse: s-maj=10.8km s-min=8.0km az=173.0.
ISCJB Event type se. Error ellipse: s-maj=3.4km s-min=2.8km az=137.9.
NEIC Event type se. Error ellipse: s-maj=7.7km s-min=5.3km az=172.0.
NNC Event type se. Error ellipse: s-maj=13.4km s-min=11.7km az=72.0.
MOS Error ellipse: s-maj=5.7km s-min=4.2km az=107.6.
ISC II 16 18 56 20.9–1.3 36.6N–.10 69.35E–.08 48 3.6b 38 6-85
IDC II 16 18 56 11.7–.93 36.15N 69.58E 0 3.9,3.8 ¶16168866
ISCJB II 16 18 56 17.9–.75 36.51N–.07 69.46E–.08 48 3.7s,3.6b
NNC II 16 18 56 21.6–3.0 36.69N 69.49E 30–25 4.2b,4.1
ISC Event type se.
IDC Error ellipse: s-maj=18.4km s-min=15.4km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=7.0km az=142.4.
NNC Event type se. Error ellipse: s-maj=24.8km s-min=17.9km az=141.0.
ISC II 18 22 36 40.2–.51 36.60N–.05 70.93E–.06 188 3.8b 73 3-84
IDC II 18 22 36 38.3–2.6 36.35N 70.84E 170–24 4.1s,4.1 ¶16168876
ISCJB II 18 22 36 39.3–.33 36.56N–.03 70.90E–.05 188 3.7b,4.1
NEIC II 18 22 36 39.3–1.4 36.46N 70.87E 176–12 4.4b,4.1
NNC II 18 22 36 46.9–2.8 37.11N 70.77E 202–31 4.2,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=18.2km s-min=11.5km az=25.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.3km az=161.7.
NEIC Event type se. Error ellipse: s-maj=13.9km s-min=7.1km az=210.0.
NNC Event type se. Error ellipse: s-maj=24.7km s-min=18.0km az=29.0.
ISC II 19 20 11 15.5–1.4 36.41N–.09 70.8E–.10 200 15 7-17
ISCJB II 19 20 11 15.3–.85 36.33N–.05 71.0E–.10 200 ¶16531947
NNC II 19 20 11 19.9–4.3 36.69N 70.58E 144–70 3.7,3.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=5.7km az=155.7.
NNC Event type se. Error ellipse: s-maj=36.1km s-min=26.7km az=38.0.
ISC II 20 08 23 54.4–2.0 36.8N–.10 70.66E–.09 200 18 2-81
IDC II 20 08 23 51.4–9.5 36.56N 70.73E 191–62 3.7,3.1 ¶16398595
NNC II 20 08 23 55.6–2.2 36.90N 70.74E 175–23 3.6,2.7b
ISC Event type se.
IDC Error ellipse: s-maj=99.3km s-min=79.8km az=120.0.
NNC Event type se. Error ellipse: s-maj=23.7km s-min=14.4km az=147.0.
NNC II 23 05 37 08.2–2.8 36.60N 70.95E 0 3.5b,3.2
¶16544981
NNC Event type se. Error ellipse: s-maj=22.6km s-min=13.2km az=2.0.
NNC II 23 07 56 42.8–3.6 36.63N 69.73E 0 3.9b,3.5
¶16544985
NNC Event type se. Error ellipse: s-maj=29.4km s-min=22.4km az=28.0.
ISC II 23 19 08 33.8–.61 36.57N–.06 70.99E–.06 188 3.4b 46 6-84
IDC II 23 19 08 32.7–2.7 36.39N 71.03E 185–23 3.8,3.3 ¶16168911
ISCJB II 23 19 08 33.6–.41 36.50N–.04 70.97E–.06 188 3.5b,3.3
NNC II 23 19 08 42.1–3.7 37.12N 71.02E 206–39 3.7,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=21.5km s-min=15.3km az=174.0.
ISCJB Event type se. Error ellipse: s-maj=7.6km s-min=3.9km az=141.3.
NNC Event type se. Error ellipse: s-maj=32.2km s-min=24.0km az=28.0.
ISC II 23 23 09 23.4–.67 36.63N–.08 69.8E–.10 300 3.6b 33 3-85
ISCJB II 23 23 09 22.4–.47 36.70N–.05 69.76E–.10 300 3.5b ¶16398819
IDC II 23 23 09 23.1–3.5 36.61N 69.77E 296–36 4.0,3.3
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=11.6km s-min=5.5km az=151.4.
IDC Error ellipse: s-maj=23.4km s-min=12.8km az=27.0.
ISC II 24 07 30 29.2–.90 36.18N–.07 69.00E–.07 35 3.9b 38 3-64
IDC II 24 07 30 24.2–1.9 36.16N 69.18E 0 4.0,4.0b ¶16168916
NNC II 24 07 30 26.1–2.4 35.92N 69.11E 100–26 4.0,3.6b
ISCJB II 24 07 30 27.3–.53 36.26N–.05 68.98E–.05 35 3.8b,3.6b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC II 24 23 24 14.8–1.9 36.9N–.20 68.3E–.30 30 4 6-64
IDC II 24 23 24 16.7–6.0 38.06N 66.99E 0 3.4b,3.3 ¶17192811
NNC II 24 23 24 18.6–4.7 35.88N 69.81E 97–88 3.6,3.1b
ISC Event type ke.
IDC Error ellipse: s-maj=258.9km s-min=24.5km az=148.0.
NNC Event type se. Error ellipse: s-maj=49.5km s-min=35.9km az=110.0.
ISC II 25 05 19 36.7–2.1 36.7N–.10 70.99E–.08 100 23 3-81
NNC II 25 05 19 37.7–2.3 36.70N 70.97E 130–26 4.0,3.2b ¶16398882
IDC II 25 05 19 41.2–7.9 37.71N 69.42E 103–52 3.6,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=12.3km az=160.0.
IDC Error ellipse: s-maj=329.7km s-min=34.9km az=140.0.
ISC II 25 06 51 55.6–.54 36.51N–.05 70.34E–.06 204 3.5b 60 3-85
ISCJB II 25 06 51 54.1–.37 36.44N–.03 70.29E–.06 204 3.5b ¶16398887
IDC II 25 06 51 54.0–2.7 36.27N 70.32E 198–23 4.0,3.5
NNC II 25 06 52 01.0–1.2 36.94N 70.31E 207–9 4.1,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.8km s-min=3.7km az=155.1.
IDC Error ellipse: s-maj=18.7km s-min=14.1km az=0.0.
NNC Event type se. Error ellipse: s-maj=13.9km s-min=8.0km az=144.0.

ISC II 25 21 47 53.8–.61 35.26N–.07 68.16E–.07 35 4.1b 34 4-54
IDC II 25 21 47 49.0–6.2 35.14N 68.28E 0 3.8,3.8b ¶16363024
ISCJB II 25 21 47 51.6–.52 35.27N–.05 68.23E–.07 33 4.2b,3.8b
NEIC II 25 21 47 53.8–.52 35.25N 68.18E 35 4.0b,3.8b
NNC II 25 21 47 56.0–4.3 35.81N 67.74E 0 3.9b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=96.6km s-min=26.2km az=164.0.
ISCJB Event type se. Error ellipse: s-maj=9.0km s-min=6.9km az=32.5.
NEIC Event type se. Error ellipse: s-maj=9.8km s-min=8.4km az=98.0.
NNC Event type se. Error ellipse: s-maj=49.4km s-min=34.1km az=122.0.
ISC II 25 22 06 17.0–1.9 36.8N–.20 71.0E–.10 200 3.5b 21 3-81
IDC II 25 22 06 13.6–3.4 36.49N 71.02E 191–34 3.7,3.2b ¶16398942
NNC II 25 22 06 20.5–3.3 37.02N 70.84E 214–31 3.9,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=35.4km s-min=23.6km az=112.0.
NNC Event type se. Error ellipse: s-maj=39.9km s-min=20.5km az=146.0.
ISC II 27 23 42 21.7–1.9 36.4N–.10 70.47E–.08 100 20 3-22
IDC II 27 23 42 19.9–6.0 36.18N 70.53E 91–51 3.6,3.5b ¶16399131
NNC II 27 23 42 27.5–2.3 36.72N 70.45E 149–19 3.7,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=68.0km s-min=20.6km az=155.0.
NNC Event type se. Error ellipse: s-maj=21.1km s-min=12.8km az=166.0.
ISC II 28 04 44 47.8–.40 36.52N–.04 70.36E–.04 193–3 4.5b 282 2-149
BJI II 28 04 44 39.6 36.44N 69.58E 175 4.8b,4.4b ¶16160703
ISCJB II 28 04 44 46.6–.27 36.50N–.02 70.40E–.03 192–3 4.4b,4.4b
IDC II 28 04 44 47.6–.66 36.35N 70.40E 198–6 4.6,4.1
MOS II 28 04 44 47.1–.95 36.51N 70.40E 198 4.7b,4.1
NEIC II 28 04 44 48.1–.26 36.45N 70.41E 198 4.5b,4.1
NNC II 28 04 44 52.0–.84 36.90N 70.33E 198–4 5.3,4.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.7km s-min=2.8km az=153.2.
IDC Error ellipse: s-maj=9.9km s-min=8.2km az=180.0.
MOS Error ellipse: s-maj=7.0km s-min=4.2km az=91.0.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=4.2km az=146.0.
NNC Event type se. Error ellipse: s-maj=7.9km s-min=5.7km az=172.0.
ISC II 28 20 02 09.3–3.0 37.0N–.20 70.9E–.10 200 10 2-66
IDC II 28 20 01 39.5–14 35.44N 71.17E 0 3.4b,3.2 ¶16388255
NNC II 28 20 02 10.8–2.8 37.03N 70.95E 168–31 3.8,2.9b
ISC Event type se.
IDC Error ellipse: s-maj=505.3km s-min=30.2km az=139.0.
NNC Event type se. Error ellipse: s-maj=31.4km s-min=15.8km az=146.0.
IDC III 01 21 17 51.5–8.3 36.89N 70.90E 243–64 3.7,3.6
¶17193097
IDC Error ellipse: s-maj=83.3km s-min=64.3km az=165.0.
ISC III 02 12 45 18.7–.35 36.54N–.04 70.50E–.03 206–3 4.4b 257 2-149
BJI III 02 12 45 16.7 36.57N 70.51E 197 4.7b,4.3b ¶16173035
ISCJB III 02 12 45 16.7–.28 36.51N–.02 70.54E–.03 200–3 4.3b,4.3b
MOS III 02 12 45 17.4–.92 36.51N 70.53E 208 4.3b,4.3b
NEIC III 02 12 45 18.8–.24 36.50N 70.53E 208 4.7b,4.3b
IDC III 02 12 45 19.2–.60 36.43N 70.55E 215–5 4.5,4.0
NNC III 02 12 45 23.6–2.0 37.05N 70.52E 207–13 5.2,4.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.2km s-min=3.0km az=163.7.
MOS Error ellipse: s-maj=8.5km s-min=4.3km az=85.3.
NEIC Event type se. Error ellipse: s-maj=5.5km s-min=4.6km az=123.0.
IDC Error ellipse: s-maj=9.2km s-min=8.5km az=178.0.
NNC Event type se. Error ellipse: s-maj=20.7km s-min=11.3km az=162.0.
NNC III 04 23 07 23.6–1.7 36.75N 70.94E 12–6 3.6b,3.4
¶16554968
NNC Event type se. Error ellipse: s-maj=14.8km s-min=9.4km az=15.0.
ISC III 06 20 28 41.1–.84 35.99N–.07 70.63E–.07 110 3.6b 31 3-65
IDC III 06 20 28 39.2–5.0 35.84N 70.20E 67–34 3.7,3.6 ¶16303229
ISCJB III 06 20 28 39.2–.57 36.09N–.04 70.52E–.07 110 3.9b,3.6
NNC III 06 20 28 45.0–3.8 36.62N 70.53E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=55.7km s-min=20.9km az=156.0.
ISCJB Event type se. Error ellipse: s-maj=9.1km s-min=4.5km az=152.0.
NNC Event type se. Error ellipse: s-maj=29.5km s-min=16.7km az=1.0.
ISC III 07 05 46 16.8–1.8 37.0N–.10 70.58E–.08 200 3.4b 23 2-81
IDC III 07 05 46 07.3–5.4 36.21N 70.77E 165–41 3.7,3.3b ¶16484535
NNC III 07 05 46 17.1–1.9 37.02N 70.60E 203–15 3.8,2.6b
ISC Event type se.
IDC Error ellipse: s-maj=57.2km s-min=32.7km az=142.0.
NNC Event type se. Error ellipse: s-maj=18.5km s-min=9.1km az=162.0.
NNC III 07 22 33 48.7–5.6 36.93N 70.71E 17–134 3.5b,3.2
¶16558803
NNC Event type se. Error ellipse: s-maj=137.1km s-min=23.5km az=12.0.
NNC III 08 14 43 10.8–2.4 36.64N 70.68E 0 3.7b,3.2
¶16558838
NNC Event type se. Error ellipse: s-maj=18.7km s-min=9.1km az=178.0.
ISC III 09 22 33 19.1–1.1 36.50N–.08 70.25E–.09 204 30 3-29
ISCJB III 09 22 33 17.7–.72 36.42N–.05 70.16E–.09 204 2.7b ¶16484733
NNC III 09 22 33 23.6–2.2 36.83N 70.19E 216–16 4.0,2.6b
IDC III 09 22 33 23.9–8.3 36.79N 70.24E 225–54 3.8,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.9km s-min=5.3km az=157.8.
NNC Event type se. Error ellipse: s-maj=22.8km s-min=11.6km az=160.0.
IDC Error ellipse: s-maj=74.4km s-min=37.7km az=14.0.
NNC III 11 06 19 49.7–5.2 36.39N 70.59E 0 5.0b,4.5
¶16587398
NNC Event type se. Error ellipse: s-maj=40.9km s-min=21.7km az=2.0.
ISC III 11 11 32 36.6–.57 36.46N–.05 70.52E–.07 204 4.4b 68 3-85
IDC III 11 11 32 33.9–4.0 36.17N 70.39E 180–35 4.8,4.3 ¶16461217
NEIC III 11 11 32 35.1–1.7 36.27N 70.55E 192–15 5.1b,4.3
ISCJB III 11 11 32 36.2–.36 36.48N–.03 70.54E–.06 204 4.5b,4.3
NNC III 11 11 32 41.0–.85 36.86N 70.34E 194–6 5.2,4.1b
ISC Event type se.
IDC Error ellipse: s-maj=22.9km s-min=17.8km az=24.0.
NEIC Event type se. Error ellipse: s-maj=17.8km s-min=9.7km az=202.0.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.2km az=162.2.
NNC Event type se. Error ellipse: s-maj=8.7km s-min=4.5km az=161.0.
NNC III 14 05 50 59.4–3.8 36.89N 70.70E 168–36 3.7,2.7b
¶16591706
NNC Event type se. Error ellipse: s-maj=36.0km s-min=17.7km az=164.0.
ISC III 15 09 00 11.0–.39 36.43N–.04 70.69E–.05 204 4.1b 98 3-150
ISCJB III 15 09 00 09.7–.25 36.47N–.03 70.70E–.04 204 4.1b ¶16461792
NEIC III 15 09 00 10.7–.99 36.44N 70.67E 198–9 4.4b
IDC III 15 09 00 11.9–.89 36.40N 70.64E 212–8 4.5,4.0
NNC III 15 09 00 17.5–2.9 37.09N 70.60E 212–25 5.2,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.0km s-min=3.1km az=150.8.
NEIC Event type se. Error ellipse: s-maj=9.3km s-min=6.6km az=161.0.
IDC Error ellipse: s-maj=11.4km s-min=9.0km az=168.0.
NNC Event type se. Error ellipse: s-maj=25.2km s-min=15.8km az=18.0.
NNC III 17 13 42 28.8–1.9 36.97N 70.98E 232–16 3.6,2.4b
¶16630660
NNC Event type se. Error ellipse: s-maj=18.6km s-min=9.2km az=156.0.
ISC III 18 08 43 40.0–1.3 36.5N–.10 70.18E–.09 213 3.1b 22 3-85
IDC III 18 08 43 38.6–3.3 36.26N 70.15E 212–28 3.8,3.3 ¶16479130
ISCJB III 18 08 43 39.5–1.0 36.51N–.08 70.15E–.10 213 3.1b,3.3
NNC III 18 08 43 45.2–1.4 36.90N 70.12E 224–12 4.0,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=33.8km s-min=23.2km az=159.0.
ISCJB Event type se. Error ellipse: s-maj=13.7km s-min=8.3km az=141.1.
NNC Event type se. Error ellipse: s-maj=14.5km s-min=8.1km az=151.0.
ISC III 19 01 09 09.5–1.4 35.9N–.10 66.91E–.07 35 3.5b 27 7-82
IDC III 19 01 09 03.1–2.6 35.66N 67.03E 0 3.8,3.8b ¶16479322
NNC III 19 01 09 05.3–2.6 36.04N 66.71E 0 3.8b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=48.3km s-min=18.2km az=162.0.
NNC Event type se. Error ellipse: s-maj=24.0km s-min=16.0km az=169.0.

ISC III 19 07 04 56.3–.54 36.29N–.06 69.46E–.05 35 4.0b 66 4-85
IDC III 19 07 04 50.7–.96 36.06N 69.57E 0 3.9,3.8 **¶16447645**
ISCJB III 19 07 04 54.8–.37 36.34N–.03 69.50E–.05 35 4.2b,3.8
NEIC III 19 07 04 54.2–3.6 36.15N 69.51E 21–24 4.6b,3.8
NNC III 19 07 04 58.3–3.7 36.79N 69.30E 0 4.3b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=19.7km s-min=17.0km az=178.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.6km az=157.5.
NEIC Event type se. Error ellipse: s-maj=15.3km s-min=7.7km az=184.0.
NNC Event type se. Error ellipse: s-maj=32.5km s-min=24.4km az=157.0.
ISC III 19 23 24 08.3–.50 35.84N–.05 70.69E–.06 102 3.8b 63 7-84
ISCJB III 19 23 24 07.4–.33 35.89N–.03 70.80E–.05 102 3.8b **¶16461968**
IDC III 19 23 24 07.8–2.9 35.87N 70.63E 82–26 4.1,3.8
NNC III 19 23 24 13.3–1.7 36.35N 70.49E 96–20 4.4,3.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.7km s-min=3.7km az=149.0.
IDC Error ellipse: s-maj=18.7km s-min=12.3km az=173.0.
NNC Event type se. Error ellipse: s-maj=13.7km s-min=12.0km az=148.0.
NNC III 20 14 33 08.9–.70 36.84N 70.37E 192–5 3.5,2.5b
¶16633179
NNC Event type se. Error ellipse: s-maj=7.2km s-min=3.5km az=160.0.
ISC III 21 05 28 20.2–.86 36.55N–.07 70.97E–.08 188 3.5b 26 3-81
ISCJB III 21 05 28 19.1–.66 36.52N–.05 70.90E–.08 188 3.5b **¶16479920**
IDC III 21 05 28 20.9–4.4 36.37N 71.31E 224–33 3.7,3.4
NNC III 21 05 28 28.0–1.0 37.06N 70.89E 210–7 3.7,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.6km s-min=6.6km az=161.5.
IDC Error ellipse: s-maj=43.3km s-min=23.1km az=158.0.
NNC Event type se. Error ellipse: s-maj=10.7km s-min=4.9km az=159.0.
NNC III 21 07 16 37.0–1.1 36.76N 70.83E 156–13 3.6,2.6b
¶16633201
NNC Event type se. Error ellipse: s-maj=11.0km s-min=5.5km az=160.0.
ISC III 21 09 49 01.8–.19 36.52N–.02 70.96E–.02 194–1 5.5b 1903 3-150
MOS III 21 09 48 59.4–.91 36.51N 70.96E 178 5.7b **¶16341179**
BJI III 21 09 49 00.6 36.65N 70.99E 186 5.5b,5.2b
ISCJB III 21 09 49 00.0–.21 36.52N–.01 70.98E–.01 187–2 5.5b,5.2b
GCMT III 21 09 49 01.6–.10 36.47N 70.73E 194–0 5.8W,5.2b
NEIC III 21 09 49 01.6–.45 36.49N 70.93E 190–4 5.8W,5.8W
IDC III 21 09 49 02.1–.41 36.46N 71.00E 198–3 5.7,5.2
NEIC III 21 09 49 02.0–.00 36.52N 70.92E 196 5.7,5.2
NNC III 21 09 49 07.7–1.5 37.03N 71.19E 229–13 6.4,5.2b
ISC Event type fe.
MOS Error ellipse: s-maj=5.1km s-min=3.5km az=111.2.
ISCJB Event type fe. Error ellipse: s-maj=2.0km s-min=1.5km az=25.0.
GCMT Error ellipse: s-maj=1.1km s-min=1.1km az=-1.0. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s123,c218; s141,c396;Duration: 1τ9 Moment tensor: Scale 10^{17}Nm; M_{rr}4.25±.05 $M_{\theta\theta}$-5.00±.06; $M_{\phi\phi}$0.74±.06; $M_{r\theta}$3.15±.05; $M_{\theta\phi}$-0.12±.06; $M_{\phi r}$2.90±.05; Best double couple: NP1:ϕ_s63.00000° ,δ67.00000°,λ67.00000°. NP2:ϕ_s292.00000°,δ32.00000°,λ134.00000°. Principal axes: T 6.5310,Plg61.0000°,Azm298.0000°; N -0.4150,Plg21.0000°,Azm73.0000° ; P -6.1230,Plg19.0000°,Azm171.0000° $M_0$6.32700×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.2km s-min=2.4km az=196.0. Felt [III] at Bagrami, Charikar, Jalalabad and Kabul; [II] at Baghlan and Jabal us Saraj. Felt [III] at Islamabad, Lahore and Peshawar; [II] at Rawalpindi, Pakistan. Felt in much of northeastern Afghanistan and northern Pakistan. Felt [III] at Delhi, Gurgaon, Jaipur and Noida; [II] at Chandigarh, India. Also felt at Ghaziabad. Felt [II] at Dushanbe, Tajikistan. Moment Tensor Solution. s32 Moment tensor: Scale 10^{17}Nm; M_{rr}5.09 $M_{\theta\theta}$-3.65 $M_{\phi\phi}$-1.44 $M_{r\theta}$2.04 $M_{\theta\phi}$-0.24 $M_{\phi r}$2.74 Best double couple: NP1:ϕ_s268.00000°,δ30.00000°,λ116.00000°. NP2:ϕ_s58.00000° ,δ63.00000°,λ76.00000°. Principal axes: T 6.4200,Plg69.0000°,Azm300.0000° ; N -2.0200,Plg13.0000°,Azm65.0000°; P -4.4100,Plg17.0000°,Azm159.0000° $M_0$5.70000×10^{17}
IDC Error ellipse: s-maj=6.8km s-min=5.0km az=16.0.
NEIC Event type se. Moment Tensor Solution. s16 Moment tensor: Scale 10^{17}Nm; M_{rr}3.96 $M_{\theta\theta}$-4.86 $M_{\phi\phi}$0.89 $M_{r\theta}$3.30 $M_{\theta\phi}$-0.68 $M_{\phi r}$2.77 Best double couple: NP1:ϕ_s60.00000° ,δ68.00000°,λ69.00000°. NP2:ϕ_s287.00000°,δ30.00000°,λ132.00000°. Principal axes: T 6.2000,Plg60.0000°,Azm298.0000°; N 0.1000,Plg19.0000°,Azm68.0000° ; P -6.3000,Plg20.0000°,Azm166.0000° $M_0$6.20000×10^{17}
NNC Event type se. Error ellipse: s-maj=14.2km s-min=12.8km az=37.0.
ISC III 22 01 11 17.5–1.7 36.3N–.10 70.45E–.09 110 21 3-65
IDC III 22 01 11 01.1–3.2 35.40N 70.72E 0 3.8b,3.6 **¶16480113**
ISCJB III 22 01 11 18.8–1.5 36.45N–.09 70.49E–.09 110 3.3b,3.6
NNC III 22 01 11 20.0–3.1 36.72N 70.52E 0 3.9b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=64.9km s-min=23.1km az=141.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=10.4km az=169.3.
NNC Event type se. Error ellipse: s-maj=24.2km s-min=11.6km az=1.0.
NNC III 24 08 36 38.7–5.2 36.76N 70.92E 179–96 3.6,2.6b
¶16647838
NNC Event type se. Error ellipse: s-maj=64.1km s-min=40.3km az=61.0.
ISC III 24 21 23 53.7–1.7 36.7N–.10 70.6E–.10 204 22 4-65
IDC III 24 21 23 49.6–6.5 36.38N 70.59E 172–59 3.9,3.4b **¶16480705**
ISCJB III 24 21 23 53.4–1.3 36.70N–.10 70.6E–.10 204 3.3b,3.4b
NNC III 24 21 23 55.9–1.5 36.84N 70.60E 193–19 4.3,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=69.1km s-min=38.9km az=144.0.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=10.1km az=139.0.
NNC Event type se. Error ellipse: s-maj=15.0km s-min=11.9km az=47.0.
ISC III 26 02 33 33.0–1.7 36.5N–.10 70.33E–.08 110 22 4-65
IDC III 26 02 33 14.6–3.2 35.44N 70.84E 0 3.7,3.7 **¶16480961**
ISCJB III 26 02 33 31.5–1.3 36.48N–.09 70.30E–.08 110 2.9b,3.7
NNC III 26 02 33 35.6–3.1 36.63N 70.37E 117–73 3.8,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=77.6km s-min=23.3km az=134.0.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=7.4km az=155.9.
NNC Event type se. Error ellipse: s-maj=29.3km s-min=24.0km az=85.0.
ISC III 26 15 59 11.7–2.2 36.2N–.20 68.7E–.10 30 20 5-47
NNC III 26 15 59 12.3–3.2 36.41N 68.71E 0 3.9b,3.6 **¶16481030**
IDC III 26 15 59 13.4–6.7 36.18N 68.82E 56–57 4.1,4.1s
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.0km s-min=20.3km az=155.0.
IDC Error ellipse: s-maj=89.2km s-min=25.9km az=154.0.
NNC III 26 21 05 56.5–3.4 36.96N 70.75E 0 3.6b,3.3
¶16455742
NNC Event type se. Error ellipse: s-maj=29.3km s-min=23.2km az=141.0.
NNC III 26 21 43 32.5–4.5 36.51N 70.01E 0 3.6b,3.2
¶16681430
NNC Event type se. Error ellipse: s-maj=37.3km s-min=28.5km az=161.0.
ISC III 27 00 18 51.5–.48 36.45N–.05 70.78E–.06 200 3.8b 68 3-81
IDC III 27 00 18 49.6–3.4 36.11N 70.82E 194–24 4.0,3.8 **¶16459608**
NEIC III 27 00 18 50.2–1.1 36.22N 70.76E 194–9 4.2b,3.8
ISCJB III 27 00 18 51.0–.30 36.42N–.03 70.70E–.05 200 3.8b,3.8
NNC III 27 00 18 58.3–2.0 36.95N 70.78E 230–19 4.4,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=35.6km s-min=13.2km az=152.0.
NEIC Event type se. Error ellipse: s-maj=11.4km s-min=7.3km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=5.7km s-min=3.7km az=156.0.
NNC Event type se. Error ellipse: s-maj=19.9km s-min=16.5km az=72.0.
ISC III 27 21 49 18.5–.57 36.37N–.06 70.76E–.06 100 3.7b 62 4-84
BJI III 27 21 49 17.9 36.43N 70.69E 77 4.2b,3.9b **¶16459618**
IDC III 27 21 49 18.0–.73 36.28N 70.74E 80–6 3.8,3.7
NNC III 27 21 49 18.6–2.8 36.93N 70.12E 0 4.3b,4.0
ISC Event type se.
IDC Error ellipse: s-maj=18.0km s-min=12.3km az=25.0.
NNC Event type se. Error ellipse: s-maj=22.8km s-min=18.0km az=161.0.
ISC III 28 02 29 22.7–.81 36.74N–.07 70.74E–.08 200 3.6b 39 4-81
IDC III 28 02 29 15.0–5.0 36.06N 70.78E 155–40 3.9,3.5 **¶16459619**
ISCJB III 28 02 29 22.0–.52 36.71N–.04 70.78E–.07 200 3.4b,3.5
NNC III 28 02 29 24.6–1.8 36.90N 70.62E 179–22 4.2,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=46.2km s-min=27.8km az=154.0.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.7km az=157.8.
NNC Event type se. Error ellipse: s-maj=18.0km s-min=13.7km az=52.0.
ISC III 28 06 13 31.1–1.7 36.7N–.10 70.03E–.09 213 20 4-29
ISCJB III 28 06 13 30.2–1.2 36.62N–.10 70.0E–.10 213 3.2b **¶16475471**
IDC III 28 06 13 31.1–5.2 36.71N 69.96E 216–44 3.6,3.0
NNC III 28 06 13 34.3–1.8 36.83N 70.04E 202–26 3.6,2.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.4km s-min=8.8km az=144.9.
IDC Error ellipse: s-maj=75.9km s-min=23.9km az=151.0.
NNC Event type se. Error ellipse: s-maj=18.9km s-min=14.8km az=58.0.
ISC III 28 09 25 24.8–1.0 36.50N–.09 71.0E–.10 188 3.4b 31 4-84
ISCJB III 28 09 25 23.2–.75 36.43N–.07 71.0E–.10 188 3.4b **¶16475492**
IDC III 28 09 25 23.8–4.1 36.30N 70.99E 188–35 3.8,3.3
NNC III 28 09 25 31.9–1.6 36.99N 70.98E 207–17 4.2,3.0b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=7.7km az=30.7.
IDC Error ellipse: s-maj=30.7km s-min=21.8km az=29.0.
NNC Event type se. Error ellipse: s-maj=16.9km s-min=13.8km az=61.0.
ISC III 29 20 12 26.7–2.1 36.8N–.20 70.4E–.10 200 20 4-50
IDC III 29 20 12 28.2–8.5 36.89N 70.36E 210–53 4.3s,4.3 **¶16475713**
NNC III 29 20 12 28.2–2.0 36.88N 70.39E 207–29 3.7,2.6b
ISC Event type se.
IDC Error ellipse: s-maj=86.9km s-min=38.0km az=170.0.
NNC Event type se. Error ellipse: s-maj=21.4km s-min=17.1km az=59.0.
NNC III 31 04 09 16.9–3.5 36.66N 70.18E 0 3.5b,3.1
¶16705019
NNC Event type se. Error ellipse: s-maj=27.7km s-min=14.1km az=8.0.
ISC IV 01 10 15 37.5–1.3 36.2N–.10 70.77E–.09 102 3.3b 24 3-84
IDC IV 01 10 15 36.4–5.6 35.99N 71.36E 92–44 3.7,3.4 **¶16705131**
ISCJB IV 01 10 15 39.0–1.1 36.39N–.08 70.78E–.09 102 3.3b,3.4
NNC IV 01 10 15 42.9–2.2 36.59N 70.59E 128–26 4.0,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=46.9km s-min=24.8km az=55.0.
ISCJB Event type se. Error ellipse: s-maj=11.6km s-min=9.7km az=147.6.
NNC Event type se. Error ellipse: s-maj=20.0km s-min=10.7km az=166.0.
ISC IV 01 13 50 54.0–.31 36.54N–.03 70.97E–.04 188–2 4.7b 372 3-150
ISCJB IV 01 13 50 51.5–.27 36.51N–.02 70.95E–.03 175–3 4.7b **¶16403145**
NEIC IV 01 13 50 52.9–.57 36.49N 70.98E 180–5 4.8b
BJI IV 01 13 50 52.4 36.58N 70.84E 190 5.1b,4.6b
MOS IV 01 13 50 52.2–.96 36.51N 71.01E 184 4.9b,4.6b
IDC IV 01 13 50 54.0–.43 36.48N 70.98E 191–3 4.7,4.3
NNC IV 01 13 50 57.4–2.0 36.94N 70.75E 190–13 5.0,4.2b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.8km s-min=2.3km az=147.3.
NEIC Event type fe. Error ellipse: s-maj=5.2km s-min=4.4km az=222.0. Felt at Charikar, Jalalabad and Kabul. Also felt at Mansehra and Peshawar, Pakistan.
MOS Error ellipse: s-maj=7.0km s-min=4.1km az=101.3.
IDC Error ellipse: s-maj=9.3km s-min=7.0km az=46.0.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=9.3km az=164.0.
NNC IV 02 07 16 13.0–2.9 36.52N 69.86E 156–72 3.5,2.7b
¶16705253
NNC Event type se. Error ellipse: s-maj=34.9km s-min=21.1km az=66.0.
NNC IV 02 07 19 54.6–6.7 36.98N 70.80E 3–199 3.6b,3.3
¶16705254
NNC Event type se. Error ellipse: s-maj=214.8km s-min=27.7km az=12.0.
ISC IV 02 15 53 24.9–1.4 37.0N–.10 70.96E–.09 200 3.3b 28 4-81
IDC IV 02 15 53 12.8–4.7 36.05N 71.02E 119–30 3.8,3.5 **¶16705316**
NNC IV 02 15 53 21.2–.94 36.78N 70.90E 165–13 4.1,3.1b
ISCJB IV 02 15 53 24.0–1.1 36.93N–.08 71.06E–.09 200 3.3b,3.1b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC IV 03 08 21 50.4–1.8 36.1N–.10 69.1E–.10 35 14 5-17
NNC IV 03 08 22 04.5–1.7 36.67N 69.62E 174–22 4.1,3.0b **¶16713863**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.6km s-min=11.4km az=52.0.
ISC IV 03 09 49 19.3–.59 36.12N–.06 70.57E–.06 110 3.9b 71 5-82
IDC IV 03 09 49 16.5–3.2 35.83N 70.51E 92–26 4.0,3.8 **¶16506171**
ISCJB IV 03 09 49 18.8–.47 36.22N–.04 70.68E–.06 110 3.8b,3.8
NNC IV 03 09 49 21.8–2.9 36.54N 70.00E 65–54 4.3,4.2b
MOS IV 03 09 49 21.6–1.6 36.43N 70.75E 120 4.1b,4.2b
BJI IV 03 09 49 23.1 36.65N 70.63E 90 4.0b,4.2b
ISC Event type se.
IDC Error ellipse: s-maj=26.8km s-min=15.5km az=171.0.
ISCJB Event type se. Error ellipse: s-maj=6.9km s-min=5.5km az=164.3.
NNC Event type se. Error ellipse: s-maj=22.1km s-min=20.9km az=124.0.
MOS Error ellipse: s-maj=12.7km s-min=6.5km az=91.7.
NNC IV 05 16 06 16.7–2.4 36.73N 70.29E 0 3.5b,3.0
¶16716972
NNC Event type se. Error ellipse: s-maj=19.8km s-min=15.9km az=155.0.
NNC IV 06 03 35 38.7–3.5 36.86N 70.74E 151–38 4.0,3.0b
¶16716983
NNC Event type se. Error ellipse: s-maj=32.1km s-min=15.9km az=164.0.
ISC IV 06 12 31 40.5–1.6 36.8N–.10 70.66E–.08 150 3.4b 25 2-81
IDC IV 06 12 31 31.1–5.8 36.05N 70.81E 111–32 3.9,3.5 **¶16705808**
NNC IV 06 12 31 39.0–2.5 36.67N 70.72E 130–26 4.0,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=67.1km s-min=22.3km az=164.0.
NNC Event type se. Error ellipse: s-maj=21.6km s-min=10.8km az=168.0.
ISC IV 06 14 11 59.0–.54 36.56N–.05 70.85E–.05 74–6 4.0b 78 2-84
ISCJB IV 06 14 11 58.7–.56 36.62N–.03 70.96E–.06 88–6 4.0b **¶16525082**
NEIC IV 06 14 11 60.0–.40 36.63N 70.98E 77 4.7b
IDC IV 06 14 11 59.4–.83 36.53N 70.99E 75–7 4.6s,4.6
NNC IV 06 14 12 03.8–7.6 36.97N 70.43E 133–106 4.5,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.2km s-min=4.4km az=163.4.
NEIC Event type se. Error ellipse: s-maj=8.6km s-min=6.6km az=127.0.
IDC Error ellipse: s-maj=13.5km s-min=13.1km az=56.0.
NNC Event type se. Error ellipse: s-maj=69.4km s-min=35.3km az=155.0.
NNC IV 08 20 48 40.5–3.8 36.97N 70.10E 0 3.6b,3.2
¶16719627
NNC Event type se. Error ellipse: s-maj=32.2km s-min=26.9km az=150.0.
ISC IV 09 17 35 17.0–2.8 36.9N–.20 70.9E–.10 200 14 4-37
IDC IV 09 17 35 16.9–22 36.68N 71.29E 254–136 3.6,3.2b **¶16706173**
NNC IV 09 17 35 20.1–2.2 37.09N 70.85E 226–28 3.5,2.3b
ISC Event type se.
IDC Error ellipse: s-maj=246.8km s-min=54.7km az=175.0.
NNC Event type se. Error ellipse: s-maj=24.5km s-min=19.8km az=68.0.
NNC IV 10 22 35 17.4–3.8 36.85N 70.44E 0–86 3.9b,3.7
¶16722552
NNC Event type se. Error ellipse: s-maj=91.1km s-min=18.6km az=12.0.
ISC IV 11 18 30 21.8–1.0 36.24N–.07 70.93E–.08 100 20 4-82
ISCJB IV 11 18 30 19.6–.75 36.20N–.05 70.92E–.07 100 3.3b **¶16706509**
IDC IV 11 18 30 21.9–9.6 36.27N 70.99E 81–64 3.5,3.4L
NNC IV 11 18 30 23.9–3.3 36.48N 70.64E 99–91 3.7,3.1b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=6.9km az=151.2.
IDC Error ellipse: s-maj=85.2km s-min=53.9km az=154.0.
NNC Event type se. Error ellipse: s-maj=40.6km s-min=26.3km az=95.0.
ISC IV 11 21 36 45.5–2.2 36.3N–.20 68.60E–.09 24 15 5-21
ISCJB IV 11 21 36 43.2–1.5 36.4N–.10 68.57E–.08 24 **¶16706540**
NNC IV 11 21 36 45.5–3.7 36.62N 68.45E 0 3.6b,3.3
IDC IV 11 21 36 48.1–14 37.09N 68.38E 0 3.5b,3.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=17.5km s-min=6.7km az=156.6.
NNC Event type se. Error ellipse: s-maj=31.7km s-min=24.0km az=161.0.
IDC Error ellipse: s-maj=293.8km s-min=28.0km az=164.0.
NNC IV 14 18 05 45.7–2.7 36.27N 70.39E 140–75 3.7,2.9b
¶16852732
NNC Event type se. Error ellipse: s-maj=36.3km s-min=21.8km az=81.0.
ISC IV 15 07 41 54.3–1.7 36.8N–.10 71.0E–.20 200 11 4-81
IDC IV 15 07 41 40.2–24 34.67N 72.69E 161–102 3.3,3.0 **¶16852763**

ISCJB IV 15 07 41 53.4–1.4 36.8N–.10 70.9E–.20 200 2.9b,3.0
NNC IV 15 07 41 56.6–2.7 37.11N 70.74E 0 3.6b,3.2
ISC Event type se.
IDC Error ellipse: s-maj=552.2km s-min=42.8km az=142.0.
ISCJB Event type se. Error ellipse: s-maj=21.5km s-min=11.3km az=27.1.
NNC Event type se. Error ellipse: s-maj=21.3km s-min=19.0km az=145.0.
ISC IV 16 10 35 46.0–1.8 36.8N–.10 70.8E–.10 150 3.4b 12 4-81
NNC IV 16 10 35 52.0–4.1 37.09N 70.79E 124–123 3.5,2.8b ¶16707082
IDC IV 16 10 35 54.5–9.1 37.19N 71.41E 220–58 3.5,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=51.3km s-min=31.5km az=69.0.
IDC Error ellipse: s-maj=88.3km s-min=39.5km az=1.0.
ISC IV 19 04 22 29.7–1.7 36.4N–.10 70.3E–.10 110 14 4-65
IDC IV 19 04 22 09.1–8.9 34.74N 71.30E 0 3.7b,3.5 ¶16852947
NNC IV 19 04 22 34.3–3.5 36.71N 70.46E 155–71 3.6,2.7b
ISC Event type se.
IDC Error ellipse: s-maj=279.3km s-min=28.1km az=135.0.
NNC Event type se. Error ellipse: s-maj=35.8km s-min=25.7km az=55.0.
ISC IV 21 03 42 41.9–.36 36.08N–.03 69.06E–.04 35 4.2b,4.0s 165 2-85
IDC IV 21 03 42 36.8–.66 35.96N 69.12E 0 4.2,4.1 ¶16450230
BJI IV 21 03 42 37.5 36.29N 68.94E 12 4.6b,4.6L
ISCJB IV 21 03 42 40.6–.23 36.13N–.02 69.17E–.03 35 4.1b,3.9s
NEIC IV 21 03 42 41.6–2.3 36.13N 69.09E 26–17 4.3b,3.9s
MOS IV 21 03 42 41.0–1.2 36.18N 69.06E 33 4.4b,3.9s
NNC IV 21 03 42 43.8–1.6 36.25N 68.74E 105–20 4.6,4.0b
ISC Event type se.
IDC Error ellipse: s-maj=14.3km s-min=11.5km az=1.0.
ISCJB Event type se. Error ellipse: s-maj=3.9km s-min=2.9km az=158.8.
NEIC Event type se. Error ellipse: s-maj=8.2km s-min=6.4km az=190.0.
MOS Error ellipse: s-maj=7.9km s-min=4.7km az=81.7.
NNC Event type se. Error ellipse: s-maj=12.0km s-min=11.1km az=8.0.
ISC IV 21 14 18 31.5–.36 36.40N–.04 70.54E–.04 151–3 4.3b 274 2-114
ISCJB IV 21 14 18 29.7–.34 36.41N–.02 70.67E–.03 143–4 4.3b ¶16450822
MOS IV 21 14 18 30.7–1.1 36.45N 70.66E 153 4.4b
BJI IV 21 14 18 30.6 36.50N 70.57E 147 5.2b,4.5b
NEIC IV 21 14 18 30.8–.63 36.39N 70.64E 142–6 4.5b,4.5b
IDC IV 21 14 18 32.0–.57 36.33N 70.61E 155–4 4.5,4.1
NNC IV 21 14 18 34.1–1.6 36.70N 70.43E 167–18 5.2,4.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.0km s-min=3.0km az=172.9.
MOS Error ellipse: s-maj=7.3km s-min=4.1km az=85.6.
NEIC Event type se. Error ellipse: s-maj=5.8km s-min=5.0km az=152.0.
IDC Error ellipse: s-maj=10.5km s-min=8.4km az=5.0.
NNC Event type se. Error ellipse: s-maj=15.2km s-min=11.4km az=46.0.
ISC IV 22 05 06 36.2–2.2 36.7N–.20 70.8E–.20 150 3.0b 12 6-82
IDC IV 22 05 06 33.3–6.4 36.30N 71.01E 158–50 3.6,3.2 ¶16707691
NNC IV 22 05 06 38.9–10 36.89N 70.60E 161–224 3.5,2.7b
ISC Event type se.
IDC Error ellipse: s-maj=57.2km s-min=24.7km az=41.0.
NNC Event type se. Error ellipse: s-maj=110.7km s-min=80.5km az=24.0.
ISC IV 25 09 33 37.0–1.7 36.1N–.20 70.8E–.10 150 3.5b 20 4-82
IDC IV 25 09 33 37.3–4.6 35.99N 70.80E 167–30 3.7,3.2 ¶16707951
NNC IV 25 09 33 47.0–1.6 36.85N 70.59E 180–26 3.8,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=57.1km s-min=21.6km az=150.0.
NNC Event type se. Error ellipse: s-maj=19.6km s-min=12.0km az=59.0.
ISC IV 26 02 51 16.0–.62 36.55N–.06 70.39E–.06 204 3.5b 52 3-81
IDC IV 26 02 51 11.2–3.7 36.10N 70.59E 177–26 3.8,3.4 ¶16505535
ISCJB IV 26 02 51 15.1–.36 36.56N–.03 70.41E–.05 204 3.5b,3.4
NNC IV 26 02 51 20.3–2.7 36.86N 70.56E 217–25 3.9,3.0b
SOME IV 26 02 51 20.5 37.77N 73.28E 15 3.9,3.0b
ISC Event type se.
IDC Error ellipse: s-maj=40.1km s-min=18.5km az=149.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.8km az=171.9.
NNC Event type se. Error ellipse: s-maj=27.4km s-min=21.4km az=44.0.
ISC IV 26 12 29 27.9–.80 36.7N–.10 69.68E–.10 300 3.3b 21 7-85
IDC IV 26 12 29 26.6–2.5 36.58N 69.79E 296–23 3.7,3.1 ¶17202132
ISCJB IV 26 12 29 27.2–.55 36.81N–.08 69.63E–.09 300 3.2b,3.1
ISC Event type ke.
ISCJB Event type ke.
NNC IV 29 06 04 36.4–1.0 36.56N 70.42E 176–13 3.6,2.6b
¶16912178
NNC Event type se. Error ellipse: s-maj=11.0km s-min=6.0km az=154.0.
ISC IV 29 06 27 38.9–1.3 36.7N–.10 70.60E–.08 150 3.2b 22 3-82
IDC IV 29 06 27 29.7–5.2 35.92N 70.83E 62–43 3.8L,3.7 ¶16708291
NNC IV 29 06 27 37.9–2.1 36.67N 70.56E 147–23 3.8,3.1b
ISCJB IV 29 06 27 38.6–1.2 36.73N–.08 70.62E–.09 150 3.2b,3.1b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC IV 29 13 00 13.6–.51 36.52N–.05 70.93E–.06 188 4.0b 58 3-84
IDC IV 29 13 00 11.9–2.5 36.37N 71.02E 176–21 4.1,3.7 ¶16505578
ISCJB IV 29 13 00 13.2–.33 36.52N–.03 70.90E–.05 188 3.9b,3.7
NNC IV 29 13 00 21.3–.76 37.03N 70.93E 203–5 4.0,2.9b
ISC Event type se.
IDC Error ellipse: s-maj=16.7km s-min=14.0km az=170.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=3.3km az=153.4.
NNC Event type se. Error ellipse: s-maj=7.2km s-min=3.3km az=163.0.
ISC IV 30 04 09 11.7–2.2 36.4N–.20 71.0E–.20 35 14 3-81
NNC IV 30 04 09 12.5–3.0 36.75N 70.65E 0 3.9b,3.6 ¶16708374
IDC IV 30 04 09 14.3–8.3 36.35N 71.37E 65–56 3.6,3.4L
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=23.7km s-min=15.2km az=3.0.
IDC Error ellipse: s-maj=74.1km s-min=54.1km az=153.0.
NNC IV 30 06 40 46.9–5.2 35.98N 69.40E 0 3.5b,3.2
¶16912220
NNC Event type se. Error ellipse: s-maj=39.0km s-min=29.1km az=17.0.
NNC V 02 01 47 47.1–4.2 36.83N 70.81E 182–78 3.5,2.5b
¶16912281
NNC Event type se. Error ellipse: s-maj=56.1km s-min=30.1km az=61.0.
ISC V 02 08 23 48.8–.66 36.52N–.06 69.85E–.08 250 3.2b 31 3-85
IDC V 02 08 23 46.8–3.6 36.25N 69.95E 235–32 3.6,3.0 ¶16708581
ISCJB V 02 08 23 48.0–.48 36.50N–.04 69.86E–.08 250 3.2b,3.0
NNC V 02 08 23 54.1–2.6 36.96N 69.77E 230 3.5,2.4b
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=14.6km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=8.5km s-min=5.7km az=1.4.
NNC Event type se. Error ellipse: s-maj=23.5km s-min=18.3km az=156.0.
ISC V 04 01 16 45.5–.61 35.98N–.05 70.42E–.05 110 3.5b 79 3-84
IDC V 04 01 16 43.6–3.1 35.85N 70.39E 81–26 3.9,3.7 ¶16577979
ISCJB V 04 01 16 45.0–.43 36.01N–.03 70.59E–.06 110 3.6b,3.7
MOS V 04 01 16 45.3–1.4 36.07N 70.43E 97 4.1b,3.7
NNC V 04 01 16 51.6–2.4 36.52N 70.17E 139–19 4.3,3.6b
ISC Event type se.
IDC Error ellipse: s-maj=23.5km s-min=17.8km az=10.0.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=4.4km az=154.9.
MOS Error ellipse: s-maj=12.9km s-min=5.6km az=85.3.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=12.4km az=173.0.
ISC V 06 07 49 18.4–1.3 36.6N–.10 70.9E–.10 188 3.1b 18 4-84
ISCJB V 06 07 49 17.7–1.1 36.52N–.08 70.9E–.10 188 3.1b ¶16708996
IDC V 06 07 49 20.3–6.6 36.51N 71.36E 203–53 3.4,3.0
NNC V 06 07 49 23.6–1.6 36.94N 70.75E 193–29 3.3,2.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=16.3km s-min=10.6km az=23.3.
IDC Error ellipse: s-maj=66.3km s-min=30.0km az=53.0.
NNC Event type se. Error ellipse: s-maj=21.8km s-min=12.8km az=61.0.
NNC V 07 05 45 31.1–1.4 36.83N 70.97E 145–17 3.6,2.7b
¶16918930
NNC Event type se. Error ellipse: s-maj=13.0km s-min=7.0km az=159.0.
ISC V 07 21 07 39.5–.74 36.19N–.08 70.84E–.07 35 3.9b 36 3-84
ISCJB V 07 21 07 37.6–.45 36.18N–.04 70.78E–.06 35 3.8b ¶16560927
IDC V 07 21 07 41.4–3.3 36.31N 71.03E 53–28 4.0,4.0L
NNC V 07 21 07 44.6–3.3 36.54N 70.57E 23–21 4.3b,4.0
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.2km az=143.7.
IDC Error ellipse: s-maj=25.6km s-min=17.6km az=10.0.
NNC Event type se. Error ellipse: s-maj=26.2km s-min=21.2km az=32.0.
NNC V 08 10 28 45.1–3.0 36.40N 70.16E 146–44 3.6,2.7b
¶16930205
NNC Event type se. Error ellipse: s-maj=29.5km s-min=18.1km az=156.0.
NNC V 10 02 06 09.8–3.0 36.85N 70.81E 0 3.7b,3.3
¶16930259
NNC Event type se. Error ellipse: s-maj=24.3km s-min=10.8km az=177.0.
ISC V 10 19 19 56.4–.59 35.48N–.05 70.90E–.06 90 3.8b 58 4-84
SOME V 10 19 19 54.3 37.07N 71.18E 20 3.8b ¶16560961
ISCJB V 10 19 19 55.3–.40 35.51N–.03 71.08E–.06 90 3.7b
IDC V 10 19 19 57.5–3.4 35.60N 70.85E 78–27 3.9,3.7
NNC V 10 19 20 03.0–2.1 35.94N 70.73E 144–16 4.1,3.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.2km s-min=3.9km az=156.0.
IDC Error ellipse: s-maj=26.0km s-min=15.4km az=165.0.
NNC Event type se. Error ellipse: s-maj=17.7km s-min=10.6km az=174.0.
ISC V 11 01 12 31.3–.54 36.57N–.05 70.93E–.05 188 3.8b 63 3-84
IDC V 11 01 12 30.0–2.6 36.47N 71.12E 167–23 4.1,3.7 ¶16560024
ISCJB V 11 01 12 30.9–.31 36.57N–.03 70.93E–.05 188 3.8b,3.7
NNC V 11 01 12 36.4–1.0 36.94N 70.79E 181–7 4.2,3.3b
ISC Event type se.
IDC Error ellipse: s-maj=20.6km s-min=17.0km az=46.0.
ISCJB Event type se. Error ellipse: s-maj=5.4km s-min=3.4km az=162.9.
NNC Event type se. Error ellipse: s-maj=9.7km s-min=5.1km az=162.0.
ISC V 11 18 56 22.9–1.2 36.63N–.09 70.98E–.09 188 15 3-17
ISCJB V 11 18 56 22.1–.78 36.61N–.06 71.0E–.10 188 ¶16873129
NNC V 11 18 56 27.5–1.4 36.95N 70.83E 190–14 3.6,2.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=6.1km az=151.8.
NNC Event type se. Error ellipse: s-maj=17.0km s-min=8.2km az=137.0.
ISC V 11 20 17 27.6–.51 36.48N–.05 70.88E–.05 188 3.7b 55 3-84
ISCJB V 11 20 17 26.7–.37 36.49N–.04 70.89E–.05 188 3.6b ¶16560036
IDC V 11 20 17 28.1–.89 36.39N 70.86E 188–7 4.0,3.6
NNC V 11 20 17 32.5–1.2 36.88N 70.82E 176–9 4.1,3.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.6km s-min=3.8km az=145.1.
IDC Error ellipse: s-maj=14.7km s-min=10.6km az=25.0.
NNC Event type se. Error ellipse: s-maj=12.1km s-min=6.9km az=155.0.
ISC V 12 19 13 34.1–.84 36.34N–.07 70.86E–.07 100 26 3-75
ISCJB V 12 19 13 35.7–.67 36.44N–.05 70.92E–.08 100 3.2b ¶16709715
IDC V 12 19 13 40.8–5.5 36.80N 70.61E 102–37 3.5,3.2
NNC V 12 19 13 43.2–4.2 37.05N 70.34E 180–46 3.8,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=5.4km az=143.0.
IDC Error ellipse: s-maj=64.1km s-min=17.0km az=152.0.
NNC Event type se. Error ellipse: s-maj=52.8km s-min=27.2km az=136.0.
ISC V 12 19 29 27.0–.86 36.15N–.08 70.07E–.07 124 26 3-65
ISCJB V 12 19 29 26.3–.56 36.17N–.05 70.07E–.06 124 3.6b ¶16709718
IDC V 12 19 29 27.1–5.0 36.13N 70.01E 117–38 4.0,3.5
NNC V 12 19 29 33.2–1.3 36.58N 70.02E 141–15 4.2,3.5b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.0km s-min=5.8km az=136.6.
IDC Error ellipse: s-maj=53.7km s-min=18.0km az=153.0.
NNC Event type se. Error ellipse: s-maj=14.1km s-min=8.5km az=142.0.
ISC V 12 22 47 39.7–.68 35.48N–.06 69.86E–.06 87 4.0b 50 3-65
ISCJB V 12 22 47 39.1–.52 35.55N–.04 69.90E–.06 87 3.8b ¶16709734
IDC V 12 22 47 41.3–4.2 35.64N 69.66E 78–31 4.0,3.6
NNC V 12 22 47 46.0–1.5 35.94N 69.77E 114–15 4.6,3.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.3km s-min=4.1km az=146.9.
IDC Error ellipse: s-maj=39.1km s-min=16.3km az=157.0.
NNC Event type se. Error ellipse: s-maj=13.2km s-min=10.0km az=165.0.
NNC V 13 09 02 08.9–11 36.84N 70.99E 14–235 4.0b,3.7
¶16946153
NNC Event type se. Error ellipse: s-maj=251.5km s-min=33.4km az=168.0.
ISC V 14 04 14 44.4–1.6 36.7N–.10 70.78E–.10 150 15 3-81
ISCJB V 14 04 14 43.8–1.5 36.66N–.09 70.8E–.10 150 2.9b ¶16709822
IDC V 14 04 14 44.4–7.4 36.81N 70.45E 148–49 3.2,2.8
NNC V 14 04 14 47.0–2.3 36.85N 70.72E 175–24 3.6,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.3km s-min=11.5km az=160.3.
IDC Error ellipse: s-maj=141.4km s-min=37.2km az=137.0.
NNC Event type se. Error ellipse: s-maj=23.8km s-min=14.1km az=139.0.
ISC V 14 10 21 34.9–.29 36.64N–.03 70.99E–.03 236–2 4.7b 586 3-150
ISCJB V 14 10 21 32.9–.26 36.64N–.02 71.01E–.02 225–2 4.6b ¶16510268
MOS V 14 10 21 34.4–.98 36.65N 71.08E 243 4.8b
NEIC V 14 10 21 35.5–.17 36.64N 71.03E 242 4.8b
IDC V 14 10 21 36.1–.53 36.60N 71.00E 249–5 4.9,4.4
NNC V 14 10 21 37.1–1.1 36.92N 70.97E 219–6 5.5,4.3b
ISC Event type fe.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=141.7.
MOS Error ellipse: s-maj=5.6km s-min=3.8km az=109.3.
NEIC Event type fe. Error ellipse: s-maj=4.2km s-min=3.8km az=142.0. Felt [II] at Kabul. Also felt at Baghlan, Charikar, Ishkashem and Nuristan.
IDC Error ellipse: s-maj=6.4km s-min=5.9km az=160.0.
NNC Event type se. Error ellipse: s-maj=10.1km s-min=5.9km az=159.0.
ISC V 14 21 07 21.8–.16 36.43N–.02 70.72E–.02 208–1 5.7b 2062 3-154
MOS V 14 21 07 17.9–.87 36.34N 70.74E 180 6.0b,5.1s ¶16512075
ISCJB V 14 21 07 19.9–.22 36.45N–.01 70.74E–.01 198–2 5.6b,5.1s
BJI V 14 21 07 20.9 36.55N 70.65E 208 6.1b,5.8b
IDC V 14 21 07 21.9–.33 36.33N 70.76E 208–2 5.9,5.4
GCMT V 14 21 07 22.2–.10 36.45N 70.62E 210–0 6.0W,5.4
NEIC V 14 21 07 22.0–.00 36.44N 70.74E 207 6.0W,5.4
NEIC V 14 21 07 22.2–.10 36.41N 70.75E 207 6.0W,5.9W
NNC V 14 21 07 25.6–1.5 36.96N 70.53E 214–8 7.0,5.7b
ISC Event type fe.
MOS Event type fe. Error ellipse: s-maj=4.9km s-min=3.4km az=113.0. Felt (III) at Dushanbe, Tashkent; (II) at Shymkent. Moment Tensor Solution.
ISCJB Event type fe. Error ellipse: s-maj=2.1km s-min=1.4km az=22.7.
IDC Error ellipse: s-maj=7.2km s-min=5.3km az=2.0.
GCMT nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Moment Tensor Solution. s119,c253; s130,c440;Duration: 2$\hat{s}$4 Moment tensor: Scale 10^{18} Nm; M_{rr}0.78±.01 $M_{\theta\theta}$-0.66±.01; $M_{\phi\phi}$-0.12±.01; $M_{r\theta}$0.74±.01; $M_{\theta\phi}$0.23±.01; $M_{\phi r}$-0.52±.01; Best double couple: NP1:ϕ_s121.00000°,δ70.00000°,λ97.00000°. NP2:ϕ_s281.00000°,δ21.00000°,λ72.00000°. Principal axes: T 1.2130,Plg64.0000°,Azm42.0000° ; N -0.0630,Plg6.0000°,Azm299.0000°; P -1.1500,Plg25.0000°,Azm206.0000° $M_0$1.18200×10^{18}
NEIC Event type se. Moment Tensor Solution. s34 Moment tensor: Scale 10^{17}Nm; M_{rr}6.40 $M_{\theta\theta}$-5.30 $M_{\phi\phi}$-1.10 $M_{r\theta}$6.58 $M_{\theta\phi}$1.72 $M_{\phi r}$-3.94 Best double couple: NP1:ϕ_s118.00000°,δ71.00000°,λ95.00000°. NP2:ϕ_s283.00000°,δ20.00000°,λ76.00000°. Principal axes: T 10.1000,Plg63.0000°,Azm36.0000°; N -0.6000,Plg4.0000°,Azm296.0000° ; P -9.5000,Plg25.0000°,Azm204.0000° $M_0$9.80000×10^{17}
NEIC Event type fe. Error ellipse: s-maj=3.1km s-min=2.5km az=204.0. Felt [III] at Bagrami, Charikar, Faizabad, Kabul and Qunduz; [II] at Jabal-os-Saraj, Jalalabad and Mazar-e Sharif. Also felt at Baghlan, Baghran and Basawul. Felt [IV] at Islamabad and [III] at Peshawar, Pakistan. Also felt at Abbottabad, Mingaora and Rawalpindi. Felt [III] at Dushanbe, Tajikistan. Also felt at Garm. Felt [III] at Tashkent, Uzbekistan. Felt [II] at Shymkent, Kazakhstan. Also felt at Taraz. Felt at Baramula, Chandigarh and Noida, India. Depth from broadband displacement seismograms. Energy computed from CMT mechanism. Moment Tensor Solution. Best double couple: NP1:ϕ_s119.00000°,δ68.00000°,λ97.00000°. NP2:ϕ_s282.00000°,δ23.00000°,λ74.00000°. Principal axes: T 1.0600,Plg66.0000°,Azm41.0000° ; N -0.0100,Plg6.0000°,Azm297.0000°; P -1.0500,Plg23.0000°,Azm204.0000°
NNC Event type se. Error ellipse: s-maj=14.5km s-min=7.9km az=157.0.
ISC V 15 22 10 26.6–.66 36.56N–.06 70.32E–.07 204 3.6b 40 3-82
IDC V 15 22 10 23.4–3.2 36.26N 70.40E 184–26 3.9,3.4 ¶16560077
ISCJB V 15 22 10 26.1–.45 36.60N–.04 70.33E–.05 204 3.5b,3.4

NNC V 15 22 10 30.2–1.2 36.81N 70.39E 194–11 4.4,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=27.7km s-min=19.6km az=19.0.
ISCJB Event type se. Error ellipse: s-maj=6.3km s-min=4.9km az=157.9.
NNC Event type se. Error ellipse: s-maj=14.9km s-min=7.9km az=144.0.
NNC V 15 23 13 19.4–1.4 36.81N 70.64E 181–19 3.5,2.5b
¶16949376

NNC Event type se. Error ellipse: s-maj=19.0km s-min=9.4km az=132.0.
NNC V 16 16 18 34.8–5.2 36.63N 67.85E 30–31 3.9b,3.7
¶16951422

NNC Event type se. Error ellipse: s-maj=44.1km s-min=28.3km az=130.0.
NNC V 17 01 59 03.5–5.8 36.82N 70.76E 0 4.0b,3.7
¶16951430

NNC Event type se. Error ellipse: s-maj=47.0km s-min=24.7km az=1.0.
NNC V 17 03 17 23.4–2.3 36.77N 70.82E 162–29 3.6,2.5b
¶16951433

NNC Event type se. Error ellipse: s-maj=24.7km s-min=17.6km az=129.0.
NNC V 18 12 51 33.1–1.9 36.86N 70.36E 189–33 3.8,2.7b
¶16956138

NNC Event type se. Error ellipse: s-maj=32.7km s-min=13.3km az=127.0.
ISC V 19 03 18 57.6–1.8 36.6N–.20 68.0E–.20 30 3.6b 14 2-81
IDC V 19 03 18 51.7–1.9 36.32N 68.19E 0 3.8,3.7 **¶17203936**
ISCJB V 19 03 18 55.5–1.5 36.6N–.20 68.0E–.20 30 3.5b,3.7
ISC Event type ke.
ISCJB Event type ke.
NNC V 20 08 54 17.8–3.5 36.30N 69.91E 0 3.9b,3.5
¶16988743

NNC Event type se. Error ellipse: s-maj=26.8km s-min=20.6km az=22.0.
ISC V 22 01 58 01.6–.89 36.25N–.08 70.70E–.07 100 3.7b 33 3-84
IDC V 22 01 57 58.6–3.2 35.95N 70.78E 80–27 3.9,3.6 **¶16560118**
NNC V 22 01 58 03.1–2.2 36.36N 70.73E 150–18 4.1,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=24.1km s-min=16.3km az=175.0.
NNC Event type se. Error ellipse: s-maj=18.9km s-min=12.2km az=163.0.
ISC V 22 05 08 34.9–2.3 36.9N–.20 70.9E–.10 200 3.5b 13 3-44
NNC V 22 05 08 35.6–3.2 37.08N 71.44E 0 4.0b,3.6 **¶16710579**
IDC V 22 05 08 36.5–9.3 36.91N 71.05E 221–56 3.6,3.2b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=25.4km s-min=13.8km az=164.0.
IDC Error ellipse: s-maj=97.2km s-min=43.7km az=165.0.
ISC V 22 06 41 38.6–1.6 36.3N–.10 70.81E–.09 102 3.5b 22 3-66
ISCJB V 22 06 41 39.2–1.3 36.43N–.09 70.64E–.09 102 3.5b **¶16710588**
IDC V 22 06 41 39.9–4.8 36.16N 70.90E 126–33 3.8,3.5b
NNC V 22 06 41 46.8–1.8 36.81N 70.55E 176–19 3.9,2.9b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=15.5km s-min=7.0km az=145.4.
IDC Error ellipse: s-maj=61.7km s-min=24.2km az=147.0.
NNC Event type se. Error ellipse: s-maj=18.8km s-min=11.0km az=141.0.
ISC V 23 09 06 56.4–1.1 36.5N–.10 69.7E–.10 150 3.3b 23 2-85
IDC V 23 09 06 52.0–5.0 36.20N 69.74E 118–44 3.8,3.5 **¶16710701**
ISCJB V 23 09 06 54.8–.78 36.49N–.06 69.74E–.09 150 3.2b,3.5
NNC V 23 09 06 58.6–1.8 36.72N 69.64E 151–25 4.1,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=21.4km az=25.0.
ISCJB Event type se. Error ellipse: s-maj=11.2km s-min=8.1km az=30.1.
NNC Event type se. Error ellipse: s-maj=25.0km s-min=13.3km az=132.0.
ISC V 23 10 52 03.6–.85 36.64N–.07 71.00E–.08 200 3.4b 28 3-84
IDC V 23 10 52 01.3–4.2 36.34N 71.00E 189–37 4.0s,4.0 **¶16560134**
ISCJB V 23 10 52 02.9–.63 36.65N–.05 70.98E–.08 200 3.4b,4.0
NNC V 23 10 52 09.1–4.9 37.22N 70.51E 247–58 4.0,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=32.0km s-min=16.8km az=36.0.
ISCJB Event type se. Error ellipse: s-maj=8.9km s-min=6.8km az=164.4.
NNC Event type se. Error ellipse: s-maj=73.0km s-min=32.5km az=128.0.
ISC V 26 21 05 58.2–.93 36.64N–.07 70.95E–.08 188 2.9b 25 3-84
IDC V 26 21 05 54.4–3.6 36.20N 71.17E 131–33 3.7,3.3 **¶16711011**
ISCJB V 26 21 05 57.1–.61 36.61N–.04 71.10E–.08 188 2.9b,3.3
NNC V 26 21 06 01.3–2.3 36.83N 70.98E 147–26 4.0,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=33.1km s-min=28.6km az=130.0.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=5.4km az=159.8.
NNC Event type se. Error ellipse: s-maj=22.4km s-min=12.7km az=149.0.
NNC V 26 23 02 38.7–1.9 36.83N 70.89E 150–25 3.5,2.8b
¶17002866

NNC Event type se. Error ellipse: s-maj=18.7km s-min=11.3km az=144.0.
NNC V 27 20 03 41.3–1.8 36.31N 70.45E 144–23 3.6,2.9b
¶17029818

NNC Event type se. Error ellipse: s-maj=18.3km s-min=12.9km az=137.0.
ISC V 29 10 12 18.7–1.5 36.5N–.10 70.9E–.10 188 15 3-84
ISCJB V 29 10 12 17.7–1.1 36.46N–.08 70.9E–.10 188 3.0b **¶16711200**
IDC V 29 10 12 20.0–10 36.48N 70.81E 212–59 3.6,3.1
NNC V 29 10 12 25.1–3.6 37.04N 71.17E 0 4.0b,3.6
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=14.5km s-min=10.6km az=171.9.
IDC Error ellipse: s-maj=207.5km s-min=44.2km az=87.0.
NNC Event type se. Error ellipse: s-maj=28.5km s-min=13.8km az=169.0.
NNC V 31 22 48 22.8–1.6 36.88N 70.58E 202–30 3.7,2.6b
¶17061084

NNC Event type se. Error ellipse: s-maj=29.6km s-min=11.6km az=122.0.
NNC VI 01 22 41 49.0–2.6 36.82N 70.74E 170–21 3.6,2.7b
¶17061210

NNC Event type se. Error ellipse: s-maj=24.0km s-min=14.1km az=157.0.
NNC VI 04 21 31 58.3–11 36.98N 70.92E 0 3.4b,3.0
¶17205254

NNC Event type se. Error ellipse: s-maj=93.5km s-min=53.9km az=174.0.
ISC VI 05 15 18 49.2–1.1 36.66N–.09 70.60E–.08 204 3.3b 23 3-85
IDC VI 05 15 18 42.8–9.7 36.18N 70.66E 152–88 3.7s,3.7 **¶17205337**
ISCJB VI 05 15 18 47.7–.81 36.60N–.06 70.66E–.09 204 3.3b,3.7
NNC VI 05 15 18 52.3–2.8 36.90N 70.51E 198–19 3.9,2.8b
ISC Event type se.
IDC Error ellipse: s-maj=41.6km s-min=24.1km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=10.0km s-min=8.2km az=17.3.
NNC Event type se. Error ellipse: s-maj=27.7km s-min=16.2km az=151.0.
ISC VI 09 14 16 23.7–.97 36.13N–.08 70.57E–.07 110 3.6b 30 3-82
IDC VI 09 14 16 20.1–3.5 35.77N 70.87E 87–28 3.8,3.6 **¶17205639**
ISCJB VI 09 14 16 22.0–.78 36.09N–.06 70.75E–.08 110 3.6b,3.6
NNC VI 09 14 16 25.8–4.6 36.28N 70.51E 157–35 3.9,3.4b
ISC Event type se.
IDC Error ellipse: s-maj=26.9km s-min=21.2km az=166.0.
ISCJB Event type se. Error ellipse: s-maj=9.4km s-min=8.1km az=15.2.
NNC Event type se. Error ellipse: s-maj=39.5km s-min=27.7km az=171.0.
ISC VI 11 16 26 27.3–.60 36.49N–.05 70.46E–.06 204 3.7b 44 3-75
IDC VI 11 16 26 23.0–3.6 36.16N 70.47E 177–24 3.9,3.4 **¶17205779**
ISCJB VI 11 16 26 26.9–.38 36.56N–.03 70.42E–.05 204 3.6b,3.4
NNC VI 11 16 26 30.7–1.2 36.76N 70.49E 182–11 4.2,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=39.2km s-min=15.2km az=152.0.
ISCJB Event type se. Error ellipse: s-maj=6.2km s-min=4.0km az=161.3.
NNC Event type se. Error ellipse: s-maj=13.0km s-min=7.5km az=146.0.
ISC VI 12 02 34 54.4–.66 36.11N–.06 68.70E–.06 30 3.8b,2.8s 54 3-86
IDC VI 12 02 34 49.9–1.1 35.90N 68.84E 0 3.9,3.8 **¶16702424**
ISCJB VI 12 02 34 53.6–.47 36.18N–.03 68.78E–.05 30 3.8b,2.8s
NEIC VI 12 02 34 55.4–.79 36.01N 68.80E 35 4.3b,2.8s
NNC VI 12 02 34 58.9–2.6 36.35N 68.61E 116–24 4.1,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=21.8km s-min=19.0km az=4.0.
ISCJB Event type se. Error ellipse: s-maj=6.4km s-min=4.6km az=166.0.
NEIC Event type se. Error ellipse: s-maj=13.1km s-min=11.0km az=152.0.
NNC Event type se. Error ellipse: s-maj=22.0km s-min=18.5km az=157.0.
NNC VI 15 12 20 06.0–9.8 36.88N 70.88E 0 3.5b,3.2
¶17221837

NNC Event type se. Error ellipse: s-maj=77.3km s-min=47.1km az=176.0.
ISC VI 17 01 44 06.9–1.9 36.6N–.10 70.9E–.10 188 3.3b 15 3-66
IDC VI 17 01 44 00.7–37 36.03N 71.22E 166–216 3.6,3.4s **¶17206358**
NNC VI 17 01 44 12.2–2.0 36.94N 70.79E 195–20 3.5,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=363.2km s-min=34.2km az=116.0.
NNC Event type se. Error ellipse: s-maj=24.6km s-min=12.0km az=136.0.
ISC VI 17 20 14 21.8–2.2 36.8N–.20 70.5E–.10 200 15 6-47
NNC VI 17 20 14 20.8–2.5 36.96N 70.57E 0 4.3b,3.9 **¶17206414**
IDC VI 17 20 14 21.7–9.0 36.79N 70.53E 202–54 3.8,3.3b
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.5km s-min=18.0km az=109.0.
IDC Error ellipse: s-maj=87.5km s-min=45.5km az=173.0.
ISC VI 18 13 24 17.4–1.5 36.6N–.10 70.8E–.10 188 17 6-84
IDC VI 18 13 24 15.6–9.7 36.37N 71.06E 157–72 3.6,3.2 **¶17206464**
ISCJB VI 18 13 24 17.6–1.1 36.56N–.07 71.0E–.10 188 3.2b,3.2
NNC VI 18 13 24 23.8–1.6 36.97N 70.85E 214–29 3.6,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=154.9km s-min=55.8km az=92.0.
ISCJB Event type se. Error ellipse: s-maj=13.4km s-min=9.4km az=176.9.
NNC Event type se. Error ellipse: s-maj=16.8km s-min=11.5km az=30.0.
ISC VI 19 21 40 05.1–2.3 36.4N–.20 70.1E–.10 100 16 6-20
IDC VI 19 21 40 03.0–6.5 36.30N 70.38E 71–56 3.9b,3.7 **¶17206551**
NNC VI 19 21 40 07.6–4.5 36.79N 70.07E 268–213 3.6,2.4b
ISC Event type se.
IDC Error ellipse: s-maj=80.6km s-min=25.9km az=149.0.
NNC Event type se. Error ellipse: s-maj=92.4km s-min=32.8km az=168.0.
NNC VI 20 19 01 03.5–2.0 36.87N 70.84E 0 3.8b,3.4
¶17240309

NNC Event type se. Error ellipse: s-maj=15.9km s-min=7.5km az=174.0.
ISC VI 21 20 53 35.5–2.5 36.9N–.20 70.6E–.10 200 19 6-65
IDC VI 21 20 53 26.7–6.7 36.15N 70.81E 177–62 3.7,3.2b **¶17206699**
NNC VI 21 20 53 33.4–3.9 36.82N 70.42E 163–57 4.3,3.1b
ISC Event type se.
IDC Error ellipse: s-maj=76.6km s-min=40.9km az=143.0.
NNC Event type se. Error ellipse: s-maj=33.2km s-min=24.4km az=24.0.
ISC VI 21 22 05 43.1–.99 36.03N–.08 70.29E–.07 100 17 6-21
ISCJB VI 21 22 05 41.3–.75 35.96N–.06 70.26E–.07 100 **¶17206704**
IDC VI 21 22 05 42.1–7.6 35.73N 70.28E 128–49 3.7b,3.6
NNC VI 21 22 05 48.5–4.4 36.79N 69.93E 0 3.8b,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.3km s-min=6.4km az=35.1.
IDC Error ellipse: s-maj=104.6km s-min=24.4km az=166.0.
NNC Event type se. Error ellipse: s-maj=39.3km s-min=28.2km az=145.0.
NNC VI 21 22 55 34.2–4.9 36.81N 69.81E 0 3.6b,3.2
¶17240358

NNC Event type se. Error ellipse: s-maj=46.0km s-min=31.1km az=140.0.
ISC VI 22 09 10 35.9–.82 36.61N–.07 70.79E–.08 200 3.1b 33 3-84
IDC VI 22 09 10 31.7–5.5 36.31N 70.73E 170–51 3.9,3.3 **¶17206741**
ISCJB VI 22 09 10 35.5–.63 36.62N–.05 70.79E–.08 200 3.2b,3.3
NNC VI 22 09 10 41.6–1.1 37.01N 70.74E 208–8 3.8,2.9b
ISC Event type se.
IDC Error ellipse: s-maj=39.1km s-min=26.3km az=18.0.
ISCJB Event type se. Error ellipse: s-maj=9.5km s-min=5.6km az=156.4.
NNC Event type se. Error ellipse: s-maj=12.2km s-min=6.6km az=147.0.
ISC VI 23 03 19 51.2–.71 36.54N–.06 70.82E–.06 100 3.9b 32 4-66
IDC VI 23 03 19 47.2–4.4 36.23N 71.09E 79–31 3.9,3.6 **¶16720975**
ISCJB VI 23 03 19 50.3–.83 36.53N–.06 70.88E–.07 100 3.8b,3.6
NNC VI 23 03 19 55.5–3.3 36.79N 70.62E 109–74 4.1,3.5b
ISC Event type se.
IDC Error ellipse: s-maj=45.9km s-min=18.9km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=9.7km s-min=6.5km az=143.5.
NNC Event type se. Error ellipse: s-maj=26.1km s-min=24.4km az=58.0.
ISC VI 24 06 11 10.4–.86 36.52N–.07 71.0E–.10 188 3.3b 17 6-84
IDC VI 24 06 11 07.4–6.0 36.31N 70.95E 160–56 3.8,3.4 **¶17206847**
ISCJB VI 24 06 11 09.3–.71 36.48N–.05 71.0E–.10 188 3.4b,3.4
NNC VI 24 06 11 13.9–2.8 37.03N 70.76E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=46.0km s-min=20.3km az=29.0.
ISCJB Event type se. Error ellipse: s-maj=12.7km s-min=6.8km az=164.3.
NNC Event type se. Error ellipse: s-maj=29.4km s-min=20.7km az=91.0.
ISC VI 24 18 42 27.2–1.6 36.55N–.09 70.5E–.10 100 9 6-15
ISCJB VI 24 18 42 26.3–1.3 36.59N–.06 70.6E–.20 100 **¶17266157**
NNC VI 24 18 42 31.9–6.1 36.83N 70.65E 170–124 3.5,2.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=18.1km s-min=6.9km az=161.2.
NNC Event type se. Error ellipse: s-maj=64.3km s-min=48.6km az=12.0.
ISC VI 24 23 19 09.4–2.2 36.58N–.10 70.4E–.20 10 10 6-8
NNC VI 24 23 19 16.8–3.6 37.16N 70.19E 0 3.6b,3.2 **¶17266163**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=41.4km s-min=27.9km az=105.0.
ISC VI 26 06 00 04.8–.71 36.47N–.06 70.70E–.09 200 3.4b 32 3-84
IDC VI 26 05 59 59.6–4.4 36.17N 70.34E 161–39 3.9,3.5 **¶16721000**
ISC Event type ke.
IDC Error ellipse: s-maj=28.6km s-min=16.7km az=23.0.
ISC VI 26 10 20 40.6–.59 35.88N–.05 69.78E–.06 100 3.6b 48 3-85
ISCJB VI 26 10 20 39.9–.45 35.92N–.04 69.87E–.06 100 3.6b **¶16721002**
IDC VI 26 10 20 41.8–.94 35.84N 69.73E 101–8 3.9,3.6
NNC VI 26 10 20 46.5–1.6 36.43N 69.50E 145–32 4.1,3.2b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.0km s-min=4.3km az=154.6.
IDC Error ellipse: s-maj=21.7km s-min=16.4km az=51.0.
NNC Event type se. Error ellipse: s-maj=30.4km s-min=12.6km az=118.0.
NNC VI 26 23 43 09.3–6.5 36.92N 70.79E 0 3.7b,3.3
¶17267953

NNC Event type se. Error ellipse: s-maj=50.8km s-min=44.7km az=148.0.
ISC VI 27 20 04 60.0–1.5 36.7N–.10 70.46E–.08 100 23 6-41
IDC VI 27 20 04 53.2–5.5 36.11N 70.84E 60–38 3.7,3.5 **¶17207097**
ISCJB VI 27 20 04 58.6–1.2 36.71N–.08 70.43E–.07 100 3.5b,3.5
NNC VI 27 20 05 01.5–4.0 36.77N 70.51E 115–75 3.7,3.2b
ISC Event type se.
IDC Error ellipse: s-maj=63.2km s-min=26.9km az=172.0.
ISCJB Event type se. Error ellipse: s-maj=12.6km s-min=6.8km az=156.0.
NNC Event type se. Error ellipse: s-maj=31.1km s-min=27.2km az=1.0.
ISC VI 27 21 51 21.5–1.5 36.9N–.10 70.31E–.09 200 3.5b 24 6-41
ISCJB VI 27 21 51 18.4–1.0 36.67N–.08 70.41E–.09 200 3.3b **¶17207101**
IDC VI 27 21 51 21.8–3.8 36.85N 70.35E 212–26 3.7,3.1b
NNC VI 27 21 51 22.6–2.2 36.95N 70.32E 210–27 3.9,2.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=11.5km s-min=8.8km az=149.2.
IDC Error ellipse: s-maj=42.5km s-min=17.8km az=168.0.
NNC Event type se. Error ellipse: s-maj=20.4km s-min=14.5km az=21.0.

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ISC I 01 03 04 25.9–1.8 39.87N–.09 73.43E–.05 10 26 1-4
NNC I 01 03 04 23.2–3.1 39.65N 73.72E 0 3.0b,2.6 **¶601988548**
KRNET I 01 03 04 25.7–.10 39.84N 73.43E 2.6b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=26.3km s-min=17.4km az=8.0.
NNC I 01 05 08 12.8–5.7 38.81N 73.81E 0 3.5b,3.1
¶16405006

NNC Event type se. Error ellipse: s-maj=42.0km s-min=33.7km az=157.0.
ISC I 02 11 08 08.2–.71 39.76N–.05 73.53E–.03 10 3.8b 88 1-85
SOME I 02 11 07 58.4 39.40N 73.72E 5 3.8b **¶15902820**
BJI I 02 11 08 01.9 39.45N 73.31E 5 4.0b,3.5L
KRNET I 02 11 08 09.0–.10 39.80N 73.51E 3.9b,3.5L
IDC I 02 11 08 08.7–3.7 39.45N 73.77E 32–27 3.7,3.7
NNC I 02 11 08 09.1–1.9 39.73N 73.74E 0 4.2b,3.9
ISC Event type se.
IDC Error ellipse: s-maj=18.1km s-min=13.8km az=4.0.
NNC Event type se. Error ellipse: s-maj=16.9km s-min=10.1km az=7.0.

NNC I 08 12 14 47.4–5.2 38.49N 74.60E 0 3.7b,3.3
¶16414850

NNC Event type se. Error ellipse: s-maj=38.3km s-min=32.9km az=147.0.
ISC I 10 07 36 53.6–.33 37.47N–.03 75.37E–.05 10 4.8s,4.7b 186 2-92
IDC I 10 07 36 51.4–.56 37.42N 75.28E 0 4.6,4.6s **¶15914937**
ISCJB I 10 07 36 52.1–.19 37.49N–.02 75.36E–.04 10 4.7s,4.5b
NNC I 10 07 36 53.8–2.6 37.50N 75.33E 0 4.7b,4.4
BJI I 10 07 36 55.5 37.52N 75.22E 50 4.7b,4.6L
MOS I 10 07 36 56.7–1.1 37.49N 75.27E 46 4.7b,4.6L
NEIC I 10 07 36 57.8–.90 37.51N 75.28E 43–7 4.7b,4.6L
ISC Event type se.
IDC Error ellipse: s-maj=13.6km s-min=10.6km az=39.0.
ISCJB Event type se. Error ellipse: s-maj=4.7km s-min=2.6km az=153.6.
NNC Event type se. Error ellipse: s-maj=23.6km s-min=17.4km az=20.0.
MOS Error ellipse: s-maj=9.3km s-min=4.9km az=94.5.
NEIC Event type se. Error ellipse: s-maj=8.3km s-min=6.9km az=192.0.
ISC I 11 20 43 13.0–1.3 37.56N–.10 75.2E–.10 135 20 5-16
ISCJB I 11 20 43 12.9–.91 37.55N–.09 75.3E–.20 135 **¶16328369**
NNC I 11 20 43 19.2–5.0 37.93N 74.99E 137–128 3.6,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=25.8km s-min=6.1km az=155.0.
NNC Event type se. Error ellipse: s-maj=53.9km s-min=38.6km az=21.0.
ISC I 20 13 49 14.0–2.0 39.53N–.09 73.46E–.04 10 45 2-5
SOME I 20 13 49 09.7 39.38N 73.20E 15 **¶15967241**
KRNET I 20 13 49 12.6–.10 39.34N 73.53E 3.0b
NNC I 20 13 49 17.4–2.2 39.42N 73.52E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.2km s-min=11.3km az=3.0.
ISC I 22 21 51 29.3–5.1 38.9N–.30 73.5E–.10 10 12 3-5
NNC I 22 21 51 32.7–2.9 39.04N 73.47E 0 3.7b,3.3 **¶15963743**
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.2km s-min=17.0km az=173.0.
KRNET I 26 05 57 24.3–.10 39.38N 73.57E 2.0b
¶601091890

KRNET I 27 02 15 46.7–.10 39.77N 73.35E 2.0b
¶601990147

ISC I 28 14 17 56.5–1.3 39.46N–.04 73.81E–.03 30–9 4.0b,3.1s 144 2-84
IDC I 28 14 17 51.5–.77 39.30N 73.90E 0 4.2,4.1 **¶15979650**
BJI I 28 14 17 52.0 39.46N 73.70E 4 4.4b,4.2b
KRNET I 28 14 17 53.4–.10 39.50N 74.07E 4.5b,4.2b
MOS I 28 14 17 55.2–1.8 39.44N 73.85E 32 4.3b,4.2b
NEIC I 28 14 17 59.1–2.4 39.56N 73.84E 49–18 4.3b,4.2b
NNC I 28 14 18 00.4–2.6 39.83N 73.76E 0 4.4b,4.2
ISC Event type se.
IDC Error ellipse: s-maj=14.6km s-min=12.9km az=149.0.
MOS Error ellipse: s-maj=9.8km s-min=4.8km az=94.5.
NEIC Event type se. Error ellipse: s-maj=24.7km s-min=11.8km az=181.0.
NNC Event type se. Error ellipse: s-maj=23.1km s-min=13.0km az=8.0.
ISC I 31 12 44 20.4–.66 38.34N–.07 74.01E–.07 124 3.2b 27 2-83
ISCJB I 31 12 44 19.9–.47 38.41N–.04 74.01E–.06 124 3.4b **¶16397316**
IDC I 31 12 44 19.5–2.9 38.24N 74.10E 118–24 3.6,3.3
BJI I 31 12 44 21.6 38.46N 74.26E 122 3.6b,3.3
NNC I 31 12 44 25.2–2.4 38.66N 73.92E 23–11 3.5b,3.1
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.4km s-min=5.1km az=152.8.
IDC Error ellipse: s-maj=22.8km s-min=17.5km az=164.0.
NNC Event type se. Error ellipse: s-maj=19.5km s-min=15.0km az=149.0.
ISC II 05 19 22 21.4–.94 37.26N–.06 75.89E–.09 105 23 5-14
ISCJB II 05 19 22 20.0–.43 37.27N–.05 75.85E–.08 105 **¶16019319**
NNC II 05 19 22 27.0–4.7 37.56N 75.51E 184–146 3.3,2.3b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.4km s-min=3.9km az=146.7.
NNC Event type se. Error ellipse: s-maj=66.2km s-min=23.3km az=139.0.
ISC II 07 00 00 02.0–.69 39.43N–.06 73.65E–.04 10 3.7b 59 2-84
BJI II 06 23 59 59.4 39.40N 73.32E 6 4.0b,3.6 **¶16168812**
ISCJB II 07 00 00 01.3–.59 39.42N–.06 73.36E–.05 10 3.6b,3.5s
IDC II 07 00 00 01.2–.88 39.37N 73.63E 0 3.9,3.7
MOS II 07 00 00 05.2–2.4 39.50N 73.44E 33 4.1b,3.7
NNC II 07 00 00 06.1–1.3 39.65N 73.46E 5–7 4.2b,3.8
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=8.6km s-min=5.5km az=159.1.
IDC Error ellipse: s-maj=16.0km s-min=12.9km az=114.0.
MOS Error ellipse: s-maj=12.8km s-min=6.0km az=85.2.
NNC Event type se. Error ellipse: s-maj=10.7km s-min=5.7km az=147.0.
ISC II 09 20 55 24.0–1.8 39.71N–.09 73.02E–.08 33 12 1-4
KRNET II 09 20 55 18.7–.10 39.54N 73.21E 2.8b **¶16506061**
NNC II 09 20 55 29.6–5.6 39.94N 72.65E 0 2.8b,2.5
ISCJB II 09 20 55 31.8–1.8 39.9N–.10 72.9E–.10 33 2.8b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC II 13 19 12 33.3–.43 39.56N–.02 73.71E–.02 33–1 4.8b,4.2s 435 1-153
SOME II 13 19 12 26.7 39.58N 73.60E 10 4.5s,4.2s **¶16022610**
IDC II 13 19 12 28.3–.51 39.44N 73.83E 0 4.6,4.5
KRNET II 13 19 12 30.7–.10 39.62N 73.76E 21 5.3b,4.5
BJI II 13 19 12 31.1 39.47N 73.68E 33 4.9b,4.7L
ISCJB II 13 19 12 31.8–.15 39.36N–.02 73.75E–.02 33 4.7b,4.1s
NNC II 13 19 12 32.7–1.8 39.65N 73.83E 0 5.2b,4.9
MOS II 13 19 12 34.6–.95 39.63N 73.84E 55 5.2b,4.2s
NEIC II 13 19 12 35.7–.75 39.54N 73.86E 60–7 4.9b,4.2s
ISC Event type se.
IDC Error ellipse: s-maj=10.6km s-min=8.5km az=138.0.
ISCJB Event type se. Error ellipse: s-maj=2.5km s-min=2.2km az=172.1.
NNC Event type se. Error ellipse: s-maj=17.0km s-min=10.2km az=157.0.
MOS Error ellipse: s-maj=5.7km s-min=4.1km az=111.8.
NEIC Event type se. Error ellipse: s-maj=6.7km s-min=5.1km az=179.0.
ISC II 13 21 19 29.3–1.1 39.67N–.05 73.81E–.04 10 41 2-14
KRNET II 13 21 19 26.9–.10 39.52N 73.78E 3.0b **¶16027321**
NNC II 13 21 19 31.3–3.7 39.72N 73.66E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=32.2km s-min=19.0km az=150.0.
ISC II 13 23 04 43.4–2.4 39.6N–.10 73.89E–.09 14 12 1-4
KRNET II 13 23 04 47.5–.10 39.69N 73.59E 2.1b **¶16512146**
NNC II 13 23 04 52.0–5.3 39.93N 73.59E 0 2.8b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=49.1km s-min=32.9km az=128.0.
ISC II 14 00 05 52.9–1.9 39.79N–.06 73.80E–.05 0–13 25 1-4
KRNET II 14 00 05 52.2–.10 39.73N 73.85E 5 2.0b **¶16027363**
NNC II 14 00 05 55.1–2.9 39.84N 73.75E 11–14 3.0b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.6km s-min=11.0km az=135.0.
ISC II 14 03 08 20.2–1.2 39.72N–.06 73.79E–.04 10 33 2-5
KRNET II 14 03 08 16.4–.10 39.40N 73.89E 2.2b **¶16027372**
SOME II 14 03 08 19.0 39.83N 73.25E 10 2.2b
NNC II 14 03 08 19.8–2.1 39.65N 73.72E 0 2.9b,2.5
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=21.8km s-min=9.3km az=139.0.
ISC II 15 08 53 33.0–2.1 39.74N–.08 73.89E–.07 2–15 24 1-4
KRNET II 15 08 53 30.7–.10 39.55N 73.88E 2.7b **¶16524956**
NNC II 15 08 53 30.8–2.9 39.65N 73.98E 0 3.0b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=29.2km s-min=11.0km az=139.0.
ISC II 18 12 23 14.2–1.6 39.67N–.07 73.01E–.04 0–14 32 1-6
KRNET II 18 12 23 16.6–.10 39.76N 72.93E 14 2.7b **¶16529535**
NNC II 18 12 23 20.7–1.8 39.87N 72.77E 0 3.4b,3.0
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.7km s-min=10.0km az=148.0.
ISC II 27 11 36 46.0–1.6 39.89N–.08 73.41E–.05 10 16 1-4
KRNET II 27 11 36 42.0–.10 39.81N 73.43E 2.7b **¶16647709**
ISCJB II 27 11 36 45.1–1.1 39.82N–.07 73.43E–.06 10 2.7b
NNC II 27 11 36 45.2–4.6 39.83N 73.35E 0 2.9b,2.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=10.1km s-min=6.2km az=165.0.
NNC Event type se. Error ellipse: s-maj=42.6km s-min=27.4km az=138.0.
ISC III 01 04 45 35.8–.97 39.75N–.05 73.41E–.03 10 3.5b 64 1-68
KRNET III 01 04 45 35.5–.10 39.63N 73.30E 3.6b **¶16484134**
IDC III 01 04 45 36.7–1.7 39.79N 72.88E 0 3.4b,3.3
SOME III 01 04 45 37.7 39.88N 73.32E 0 3.4b,3.3
NNC III 01 04 45 39.8–3.0 39.78N 73.60E 0 3.7b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=36.7km s-min=15.7km az=131.0.
NNC Event type se. Error ellipse: s-maj=28.8km s-min=18.6km az=149.0.
ISC III 01 04 52 52.6–1.7 39.71N–.07 73.40E–.04 4–13 37 1-6
SOME III 01 04 52 54.8 39.78N 73.43E 0 **¶16552889**
KRNET III 01 04 52 55.0–.10 39.65N 73.32E 2.4b
NNC III 01 04 53 00.2–2.8 39.89N 73.41E 0 3.2b,2.9
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=33.9km s-min=14.8km az=139.0.
ISC III 07 18 47 08.5–.33 38.05N–.04 74.27E–.04 200 4.1b 154 2-117
BJI III 07 18 47 05.6 38.17N 74.29E 176 4.7b,4.5b **¶16461123**
ISCJB III 07 18 47 06.9–.22 38.06N–.02 74.36E–.04 200 4.0b,4.5b
MOS III 07 18 47 06.5–.88 38.11N 74.30E 184 4.2b,4.5b
IDC III 07 18 47 08.3–.60 38.05N 74.42E 190–5 4.3,3.8
NNC III 07 18 47 09.2–5.0 38.29N 74.00E 188–31 4.8,3.7b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=4.6km s-min=3.3km az=161.4.
MOS Error ellipse: s-maj=8.5km s-min=5.1km az=88.8.
IDC Error ellipse: s-maj=10.0km s-min=8.9km az=2.0.
NNC Event type se. Error ellipse: s-maj=49.1km s-min=25.7km az=147.0.
ISC III 07 19 48 40.7–1.4 39.73N–.06 73.72E–.05 10 33 0-4
KRNET III 07 19 48 36.0–.10 39.57N 73.81E 2.9b **¶16558806**
NNC III 07 19 48 37.2–1.9 39.64N 73.85E 0 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=16.9km s-min=10.0km az=62.0.
ISC III 15 06 56 37.5–1.7 39.76N–.07 73.28E–.05 5–12 26 0-4
KRNET III 15 06 56 36.8–.10 39.70N 73.28E 10 2.5b **¶16594146**
NNC III 15 06 56 37.2–3.7 39.69N 73.59E 0 3.1b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=28.7km s-min=17.1km az=115.0.
ISC III 17 20 57 51.7–1.9 39.55N–.06 73.61E–.04 6–11 3.7b 66 0-82
KRNET III 17 20 57 50.0–.10 39.45N 73.46E 3.6b **¶16478997**
IDC III 17 20 57 50.5–1.1 39.40N 73.46E 0 3.9,3.9
BJI III 17 20 57 51.3 39.32N 73.17E 7 3.5L,3.9
NNC III 17 20 57 52.9–1.9 39.53N 73.40E 0 4.0b,3.6
SOME III 17 20 57 52.8 39.58N 73.15E 0 4.0b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=22.7km s-min=15.8km az=104.0.
NNC Event type se. Error ellipse: s-maj=24.1km s-min=9.7km az=102.0.
ISC III 20 18 50 35.6–1.9 39.78N–.09 73.97E–.05 10 27 0-4
KRNET III 20 18 50 33.9–.10 39.71N 73.98E 2.3b **¶16633186**
NNC III 20 18 50 34.0–1.6 39.74N 73.97E 0 2.7b,2.5
SOME III 20 18 50 34.0 39.78N 74.08E 5 2.7b,2.5
ISCJB III 20 18 50 35.6–1.4 39.58N–.08 73.90E–.07 10 2.7b,2.5
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC III 21 02 58 39.9–1.7 39.77N–.08 73.88E–.05 10 26 0-4
NNC III 21 02 58 35.8–1.2 39.53N 73.56E 0 2.6b,2.4 **¶16633196**
KRNET III 21 02 58 37.9–.10 39.70N 73.95E 2.7b,2.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=14.6km s-min=5.9km az=91.0.
ISC III 23 16 35 44.4–1.5 39.61N–.06 73.30E–.04 14–11 40 0-6
KRNET III 23 16 35 46.5–.10 39.66N 73.41E 3.5b **¶16647819**
NNC III 23 16 35 47.8–1.3 39.69N 73.52E 0 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=13.7km s-min=6.3km az=100.0.
ISC III 30 04 51 25.7–1.7 39.50N–.05 73.66E–.04 1–10 3.7b 58 1-82
IDC III 30 04 51 24.4–1.1 39.33N 73.72E 0 3.8,3.6 **¶16475775**
NNC III 30 04 51 26.3–.62 39.54N 73.72E 0 3.8b,3.5
KRNET III 30 04 51 26.0–.10 39.56N 73.75E 3.6b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=26.6km s-min=16.8km az=97.0.
NNC Event type se. Error ellipse: s-maj=6.8km s-min=3.3km az=72.0.
ISC IV 01 06 42 58.8–1.0 37.42N–.06 75.78E–.08 10 3.7b 26 2-80
SOME IV 01 06 42 52.0 37.60N 76.38E 15 3.7b **¶16410127**
BJI IV 01 06 42 57.8 37.52N 75.79E 6 3.7L
IDC IV 01 06 43 04.9–3.2 37.50N 75.87E 54–29 3.8,3.7
NNC IV 01 06 43 05.3–2.0 37.88N 75.95E 0 3.9b,3.5
ISC Event type se.
IDC Error ellipse: s-maj=25.8km s-min=21.0km az=71.0.
NNC Event type se. Error ellipse: s-maj=19.1km s-min=13.1km az=23.0.
ISC IV 01 16 37 39.6–1.5 39.62N–.06 73.38E–.04 10–9 3.6b 70 0-78
IDC IV 01 16 37 35.2–1.8 39.36N 73.64E 0 3.7,3.6 **¶16410071**
KRNET IV 01 16 37 36.0–.10 39.50N 73.62E 3.5b,3.6
NNC IV 01 16 37 38.3–1.8 39.58N 73.67E 0 3.9b,3.6
SOME IV 01 16 37 39.4 39.70N 73.68E 5 3.9b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=32.1km s-min=16.3km az=133.0.
NNC Event type se. Error ellipse: s-maj=17.8km s-min=8.7km az=72.0.
ISC IV 01 18 08 07.8–1.6 39.74N–.06 73.68E–.04 10–12 46 0-5
KRNET IV 01 18 08 09.8–.10 39.80N 73.65E 2.5b **¶16410062**
NNC IV 01 18 08 11.4–2.9 39.81N 73.49E 0 3.1b,2.8
SOME IV 01 18 08 13.2 39.88N 73.60E 10 3.1b,2.8
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=50.5km s-min=14.9km az=100.0.
ISC IV 03 04 46 00.6–2.4 39.90N–.09 73.07E–.05 3–24 13 0-4
NNC IV 03 04 46 00.6–.87 39.92N 72.93E 0 2.5b,2.1 **¶16713852**
KRNET IV 03 04 46 01.7–.10 39.84N 73.03E 2.0b,2.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=8.8km s-min=3.5km az=7.0.
ISC IV 06 01 12 00.6–1.4 39.55N–.07 73.29E–.04 10 51 0-6
SOME IV 06 01 11 52.0 39.43N 72.85E 0 **¶16716982**
KRNET IV 06 01 11 56.1–.10 39.42N 73.31E 2.7b
NNC IV 06 01 11 58.4–1.9 39.47N 73.48E 0 3.3b,2.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=22.3km s-min=8.6km az=104.0.
ISC IV 07 03 42 53.1–1.3 38.4N–.10 73.97E–.08 150 3.1b 24 2-79
IDC IV 07 03 42 49.9–5.0 37.97N 74.08E 139–37 3.6,3.2 **¶16415680**
ISCJB IV 07 03 42 51.4–1.0 38.30N–.08 73.99E–.08 150 3.2b,3.2
NNC IV 07 03 42 54.6–3.1 38.54N 73.80E 172–18 3.6,2.5b
ISC Event type se.
IDC Error ellipse: s-maj=48.3km s-min=24.3km az=169.0.
ISCJB Event type se. Error ellipse: s-maj=11.7km s-min=7.9km az=147.6.
NNC Event type se. Error ellipse: s-maj=29.9km s-min=15.2km az=140.0.
ISC IV 09 01 36 21.7–1.4 38.97N–.08 74.98E–.05 10 3.6b 40 2-69
NNC IV 09 01 36 17.9–6.0 38.27N 73.53E 0 4.0b,3.6 **¶16706112**
IDC IV 09 01 36 20.9–3.7 38.90N 75.01E 0 3.8,3.8b
SOME IV 09 01 36 22.4 39.03N 74.62E 0 3.8,3.8b
ISC Event type se.

NNC Event type se. Error ellipse: s-maj=47.7km s-min=40.1km az=66.0.
IDC Error ellipse: s-maj=84.5km s-min=18.4km az=101.0.
NNC IV 13 17 28 08.5–1.5 38.54N 73.06E 114–18 3.6,2.7b ¶16852699

NNC Event type se. Error ellipse: s-maj=11.5km s-min=10.5km az=89.0.
ISC IV 20 00 48 15.7–2.2 39.49N–.10 73.53E–.04 4–13 27 1-4
KRNET IV 20 00 48 15.5–.10 39.46N 73.59E 3.6b **¶16872793**
NNC IV 20 00 48 18.2–2.0 39.56N 73.51E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=39.1km s-min=10.6km az=91.0.
ISC IV 20 00 52 06.3–2.0 39.59N–.08 73.53E–.04 9–11 27 0-4
KRNET IV 20 00 52 04.0–.10 39.47N 73.64E 3.4b **¶16872794**
NNC IV 20 00 52 05.7–4.7 39.67N 74.00E 0 3.5b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=84.3km s-min=22.5km az=36.0.
ISC IV 26 09 26 44.2–1.7 38.3N–.10 73.46E–.07 140 38 2-68
SOME IV 26 09 26 40.8 39.07N 73.73E 15 **¶16708042**
IDC IV 26 09 26 44.3–6.6 38.20N 73.94E 172–56 3.6,3.1b
NNC IV 26 09 26 46.0–2.8 38.41N 73.63E 174–14 3.6,2.6b
ISCJB IV 26 09 26 46.0–1.3 38.37N–.08 73.56E–.07 140 3.3b,2.6b
ISC Event type se.
NNC Event type se.
ISCJB Event type se.
ISC IV 29 12 11 56.2–.80 37.99N–.06 75.7E–.10 100 3.6b 23 3-80
ISCJB IV 29 12 11 55.1–.58 37.94N–.05 75.6E–.10 100 3.6b **¶16491278**
IDC IV 29 12 11 57.9–5.2 38.04N 75.66E 113–36 3.6,3.3
NNC IV 29 12 12 01.4–2.6 38.54N 75.68E 0 3.8b,3.4
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=13.6km s-min=5.5km az=162.2.
IDC Error ellipse: s-maj=41.8km s-min=33.8km az=155.0.
NNC Event type se. Error ellipse: s-maj=18.9km s-min=14.7km az=161.0.
ISC IV 30 11 00 33.7–1.5 38.2N–.10 74.10E–.10 152 3.4b 21 2-79
IDC IV 30 11 00 34.3–5.2 38.04N 74.08E 166–35 3.5,3.1 **¶16491374**
NNC IV 30 11 00 36.8–2.1 38.39N 73.91E 166–14 3.2,2.0b
ISC Event type se.
IDC Error ellipse: s-maj=60.0km s-min=32.7km az=147.0.
NNC Event type se. Error ellipse: s-maj=20.9km s-min=10.1km az=139.0.
ISC V 06 19 47 43.6–2.0 39.61N–.07 73.95E–.05 4–11 34 1-4
KRNET V 06 19 47 45.6–.10 39.67N 73.89E 14 2.6b **¶16918916**
NNC V 06 19 47 45.8–1.1 39.86N 74.06E 0 2.9b,2.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=9.2km s-min=4.9km az=178.0.
KRNET V 08 13 49 53.2–.10 39.94N 73.10E 6 1.9b ¶601092615
ISC V 12 14 51 53.9–2.0 39.23N–.07 73.47E–.06 14–17 18 1-4
KRNET V 12 14 51 56.2–.10 39.29N 73.46E 2.7b **¶601092650**
NNC V 12 14 52 05.3–3.5 39.75N 73.56E 0 3.5b,3.1
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=43.7km s-min=14.0km az=132.0.
ISC V 29 23 52 45.9–.63 38.10N–.05 73.71E–.06 140 3.6b 36 4-80
ISCJB V 29 23 52 45.8–.39 38.17N–.04 73.64E–.06 140 3.5b **¶16711250**
IDC V 29 23 52 45.1–4.1 37.98N 73.61E 118–28 3.7,3.4b
NNC V 29 23 52 50.8–6.9 38.45N 73.52E 29–97 4.0b,3.5
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=7.1km s-min=4.5km az=155.0.
IDC Error ellipse: s-maj=45.7km s-min=24.1km az=143.0.
NNC Event type se. Error ellipse: s-maj=71.2km s-min=16.7km az=144.0.
ISC VI 02 09 49 11.1–1.0 38.07N–.06 73.13E–.06 127 13 3-15
ISCJB VI 02 09 49 10.2–.73 38.05N–.05 73.16E–.08 127 **¶17204981**
NNC VI 02 09 49 17.0–2.0 38.42N 72.85E 122–48 3.5,2.8b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=9.3km s-min=6.5km az=176.7.
NNC Event type se. Error ellipse: s-maj=20.0km s-min=7.4km az=138.0.
ISC VI 08 16 06 15.7–.58 38.30N–.05 73.49E–.05 107 3.7b 53 2-84
ISCJB VI 08 16 06 13.5–.32 38.15N–.03 73.54E–.05 107 3.6b **¶16589693**
IDC VI 08 16 06 13.5–2.8 38.01N 73.35E 91–24 3.9,3.7
BJI VI 08 16 06 17.2 38.27N 73.74E 138 3.7b,3.7
NNC VI 08 16 06 19.8–1.5 38.48N 73.25E 112–27 4.3,3.6b
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.0km s-min=3.7km az=163.9.
IDC Error ellipse: s-maj=22.3km s-min=17.3km az=24.0.
NNC Event type se. Error ellipse: s-maj=15.2km s-min=6.0km az=141.0.
ISC VI 11 03 09 45.3–1.5 39.58N–.04 73.10E–.03 10–11 36 1-4
KRNET VI 11 03 09 48.1–.10 39.64N 72.98E 16 3.1b **¶17216496**
NNC VI 11 03 09 48.0–1.2 39.50N 73.12E 0 3.6b,3.2
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=12.8km s-min=7.2km az=135.0.
ISC VI 11 06 34 43.4–1.6 39.61N–.06 73.03E–.05 9–10 33 1-13
KRNET VI 11 06 34 46.3–.10 39.68N 72.74E 12 3.5b **¶17216503**
NNC VI 11 06 34 46.1–1.6 39.49N 73.04E 0 3.7b,3.4
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=15.3km s-min=9.9km az=133.0.
ISC VI 20 21 49 36.8–.44 37.47N–.04 74.43E–.04 10 4.1b 93 2-80
ISCJB VI 20 21 49 35.0–.32 37.38N–.03 74.44E–.05 10 4.2b,3.3s **¶16720958**
IDC VI 20 21 49 35.8–.85 37.45N 74.48E 0 4.0,3.9
BJI VI 20 21 49 40.4 37.59N 74.75E 7 4.4b,4.2b
NNC VI 20 21 49 41.0–1.4 37.66N 74.39E 0 4.4b,4.2
NEIC VI 20 21 49 44.8–.91 37.63N 74.51E 72–8 4.5b,4.2
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=6.1km s-min=3.8km az=147.9.
IDC Error ellipse: s-maj=17.2km s-min=15.7km az=55.0.
NNC Event type se. Error ellipse: s-maj=12.1km s-min=6.4km az=149.0.
NEIC Event type se. Error ellipse: s-maj=8.8km s-min=6.6km az=200.0.
ISC VI 21 06 25 01.2–1.7 39.48N–.07 73.46E–.03 10–10 3.8b 76 1-68
KRNET VI 21 06 24 59.8–.10 39.51N 73.74E 3.6b **¶17206659**
SOME VI 21 06 25 00.3 39.63N 73.95E 15 3.6b
NNC VI 21 06 25 02.5–3.6 39.72N 73.96E 0 3.9b,3.5
IDC VI 21 06 25 04.6–3.0 39.63N 72.25E 0 3.8b,3.7
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=38.2km s-min=22.6km az=140.0.
IDC Error ellipse: s-maj=71.2km s-min=22.3km az=152.0.
ISC VI 22 23 35 38.1–1.6 39.56N–.06 73.41E–.05 14–9 44 1-68
KRNET VI 22 23 35 36.7–.10 39.60N 73.47E 3.6b **¶17206788**
NNC VI 22 23 35 40.1–2.1 39.80N 73.42E 0 3.6b,3.3
IDC VI 22 23 35 43.2–3.3 39.33N 71.56E 0 3.8b,3.6
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=18.3km s-min=12.3km az=162.0.
IDC Error ellipse: s-maj=89.4km s-min=23.0km az=151.0.
ISC VI 23 18 08 44.5–.55 37.41N–.05 74.57E–.06 10 3.6b,3.0s 38 2-82
ISCJB VI 23 18 08 41.7–.42 37.30N–.05 74.58E–.08 10 3.5b,3.0s **¶16686435**
IDC VI 23 18 08 42.0–.79 37.21N 74.52E 0 3.8,3.7
BJI VI 23 18 08 45.7 37.53N 74.74E 8 3.9b,3.7L
NNC VI 23 18 08 49.5–6.4 37.71N 74.57E 3–27 4.4b,4.0
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=10.0km s-min=5.1km az=146.9.
IDC Error ellipse: s-maj=17.6km s-min=14.3km az=68.0.
NNC Error ellipse: s-maj=49.6km s-min=28.7km az=38.0.
ISC VI 29 19 15 39.6–2.6 39.4N–.20 73.90E–.07 1–25 28 2-4
NNC VI 29 19 15 38.3–8.7 39.24N 73.84E 0 3.7b,3.3 **¶17270329**
KRNET VI 29 19 15 42.0–.10 39.79N 74.07E 3.2b,3.3
ISC Event type se.
NNC Event type se. Error ellipse: s-maj=64.0km s-min=47.3km az=165.0.

(720) Northwestern Kashmir.

ISC II 09 04 36 40.0–.25 36.09N–.03 73.18E–.03 26 4.7b,4.1s 358 2-151
IDC II 09 04 36 35.4–.49 36.10N 73.19E 0 4.5L,4.5 **¶16013120**
NNC II 09 04 36 38.7–3.0 36.20N 73.10E 0 5.1b,4.9
ISCJB II 09 04 36 38.4–.14 36.14N–.02 73.24E–.03 26 4.6b,4.1s
BJI II 09 04 36 38.4 36.18N 73.30E 24 4.9b,4.8b
MOS II 09 04 36 41.8–1.1 36.22N 73.28E 53 5.0b,4.1s
NEIC II 09 04 36 43.4–.68 36.24N 73.19E 54–6 4.9b,4.1s
ISC Event type fe.
IDC Error ellipse: s-maj=13.2km s-min=10.2km az=4.0.
NNC Event type se. Error ellipse: s-maj=27.0km s-min=22.1km az=145.0.
ISCJB Event type fe. Error ellipse: s-maj=3.1km s-min=2.3km az=157.8.
MOS Error ellipse: s-maj=6.3km s-min=3.9km az=98.4.
NEIC Event type fe. Error ellipse: s-maj=5.5km s-min=4.4km az=169.0. Felt in Gilgit-Baltistan and at Balakot, Batgram, Chitral, Islamabad, Mansehra and Swat, Pakistan. Also felt at Kargil, India.
ISC II 09 07 09 02.0–.78 36.13N–.07 73.29E–.09 48 3.3b 19 4-75
IDC II 09 07 08 57.8–2.2 36.53N 73.24E 0 3.8,3.7 **¶16397871**
ISCJB II 09 07 08 59.7–.66 36.14N–.06 73.3E–.10 48 3.5b,3.7
NNC II 09 07 09 01.7–5.9 36.29N 73.00E 0 3.4b,3.3
ISC Event type se.
IDC Error ellipse: s-maj=62.2km s-min=25.9km az=148.0.
ISCJB Event type se. Error ellipse: s-maj=13.0km s-min=5.7km az=149.4.
NNC Event type se. Error ellipse: s-maj=47.4km s-min=28.6km az=161.0.
ISC II 10 08 27 05.4–.81 36.04N–.07 73.31E–.09 48 3.3b 23 5-82
IDC II 10 08 26 59.2–2.3 36.08N 73.20E 0 3.8,3.6 **¶16328791**
ISCJB II 10 08 27 02.1–.57 35.93N–.06 73.31E–.09 48 3.4b,3.6
ISC Event type ke.
ISCJB Event type ke.
ISC IV 03 12 36 13.6–.64 35.85N–.06 73.22E–.08 26 3.7b 35 4-82
IDC IV 03 12 36 08.7–.97 35.70N 73.22E 0 3.8,3.7 **¶16705437**
ISCJB IV 03 12 36 11.9–.49 35.90N–.04 73.32E–.08 26 3.6b,3.7
NNC IV 03 12 36 18.2–2.2 36.20N 72.51E 0 3.8b,3.6
ISC Event type se.
IDC Error ellipse: s-maj=25.4km s-min=20.0km az=63.0.
ISCJB Event type se. Error ellipse: s-maj=10.2km s-min=4.6km az=158.6.
NNC Event type se. Error ellipse: s-maj=16.7km s-min=15.3km az=163.0.
ISC IV 07 17 55 01.7–1.7 35.7N–.20 73.7E–.40 10 3.6b 7 4-82
IDC IV 07 17 54 58.5–1.9 35.35N 73.17E 0 3.6,3.5b **¶16719576**
ISCJB IV 07 17 54 59.5–1.7 35.5N–.20 73.5E–.50 10 3.4b,3.5b
NNC IV 07 17 55 09.7–17 37.03N 71.01E 0 3.2b,2.9
ISC Event type se.
IDC Error ellipse: s-maj=69.8km s-min=28.8km az=74.0.
ISCJB Event type se. Error ellipse: s-maj=56.8km s-min=23.3km az=161.2.
NNC Event type se. Error ellipse: s-maj=126.7km s-min=89.0km az=174.0.
ISC VI 10 02 38 01.0–.37 36.08N–.04 73.07E–.04 26 4.3b,3.4s 151 2-83
IDC VI 10 02 37 57.1–.67 36.07N 72.98E 0 4.2,4.1 **¶16587355**
ISCJB VI 10 02 37 58.9–.26 36.02N–.02 73.06E–.05 26 4.2b,3.3s
MOS VI 10 02 38 03.9–.86 36.23N 73.06E 59 4.5b,3.3s
NEIC VI 10 02 38 05.2–.81 36.20N 73.04E 58–6 4.6b,3.3s
NNC VI 10 02 38 05.3–10 36.19N 73.28E 28–287 4.7b,4.3
BJI VI 10 02 38 09.5 36.33N 73.90E 57 4.4b,4.3b
ISC Event type se.
IDC Error ellipse: s-maj=14.8km s-min=12.7km az=23.0.
ISCJB Event type se. Error ellipse: s-maj=5.6km s-min=3.0km az=159.8.
MOS Error ellipse: s-maj=8.9km s-min=4.7km az=89.4.
NEIC Event type se. Error ellipse: s-maj=8.0km s-min=6.3km az=176.0.
NNC Event type se. Error ellipse: s-maj=234.3km s-min=33.7km az=159.0.

SEISMIC REGION 49.
Northern Eurasia.

(721) Finland.

ISC III 15 02 04 24.2–1.1 65.00N–.02 27.40E–.03 7–9 100 1-8
NAO III 15 02 04 24.4–.90 64.97N 27.35E 2.3L **¶16336075**
CSEM III 15 02 04 25.2–.19 65.03N 27.46E 8–0 2.0L
BER III 15 02 04 25.2–5.0 64.97N 27.24E 0–20 2.3L
ISCJB III 15 02 04 25.2–1.2 64.99N–.02 27.48E–.06 15–8 2.3L
HEL III 15 02 04 26.0–.00 64.98N 27.53E 17–1 2.3L,2.1L
ISC Event type ke.
CSEM Event type ke. Error ellipse: s-maj=5.3km s-min=3.1km az=126.0.
BER Error ellipse: s-maj=10.7km s-min=35.6km az=-1.0.
ISCJB Event type ke. Error ellipse: s-maj=4.7km s-min=2.7km az=27.9.
HEL Error ellipse: s-maj=0.3km s-min=0.4km az=-1.0.

(724) Baltic States-Belarus-Northwestern Russia.

IDC I 12 09 44 04.4–999 51.02N 48.44E 0 ¶17189984
IDC Error ellipse: s-maj=1042.0km s-min=128.2km az=89.0.
IDC I 17 13 06 30.3–463 56.30N 42.66E 0 ¶17190407
IDC Error ellipse: s-maj=176.1km s-min=62.2km az=100.0.
ISC I 19 08 59 01.8–2.1 52.5N–.20 35.3E–.20 10 7 3-63
IDC I 19 08 58 59.1–2.2 52.24N 35.78E 0 3.5,3.4 **¶17190542**
ISCJB I 19 08 59 00.0–1.9 52.5N–.10 35.3E–.30 10 3.3b,3.4
ISC Event type ke.
ISCJB Event type ke.
IDC I 21 16 26 56.1–623 63.38N 35.70E 0 ¶17190683
IDC Error ellipse: s-maj=291.2km s-min=131.0km az=157.0.
IDC II 02 09 00 13.3–4.7 52.70N 35.04E 0 3.5,3.4 ¶602734453
IDC Error ellipse: s-maj=63.8km s-min=17.1km az=122.0.
IDC II 02 09 35 53.4–324 56.17N 44.14E 0 ¶17191535
IDC Error ellipse: s-maj=129.6km s-min=78.6km az=106.0.
IDC II 10 08 43 23.4–335 54.34N 42.69E 0 ¶17192000
IDC Error ellipse: s-maj=143.3km s-min=80.7km az=134.0.
IDC II 10 09 52 38.7–343 54.10N 43.34E 0 ¶17192001
IDC Error ellipse: s-maj=147.6km s-min=85.5km az=134.0.
IDC II 14 15 07 49.0–420 54.68N 22.96E 0 ¶17192247
IDC Error ellipse: s-maj=158.0km s-min=125.9km az=53.0.
IDC II 16 08 07 39.4–393 54.46N 22.72E 0 ¶17192353
IDC Error ellipse: s-maj=149.0km s-min=120.5km az=54.0.
IDC II 16 09 00 02.6–2.4 52.37N 35.55E 0 3.8,3.6 ¶17192356
IDC Error ellipse: s-maj=30.6km s-min=12.9km az=121.0.
IDC II 16 10 20 07.2–654 63.65N 34.92E 0 ¶17192363
IDC Error ellipse: s-maj=311.4km s-min=132.0km az=156.0.
IDC II 16 12 06 31.5–662 63.72N 34.86E 0 ¶17192366
IDC Error ellipse: s-maj=315.0km s-min=134.5km az=155.0.
IDC II 21 13 39 03.9–831 53.12N 33.96E 0 ¶17192637
IDC Error ellipse: s-maj=340.9km s-min=95.7km az=31.0.
IDC II 24 10 22 25.1–610 63.76N 36.38E 0 ¶17192783
IDC Error ellipse: s-maj=288.2km s-min=133.1km az=160.0.
IDC II 25 11 28 41.6–999 56.75N 34.91E 0 ¶17192834
IDC Error ellipse: s-maj=887.7km s-min=33.0km az=90.0.
IDC II 25 13 30 43.4–999 56.79N 34.59E 0 ¶17192839
IDC Error ellipse: s-maj=825.9km s-min=36.7km az=92.0.
IDC II 26 03 11 27.0–368 62.16N 42.71E 0 ¶17192874
IDC Error ellipse: s-maj=167.4km s-min=113.2km az=8.0.
IDC II 26 03 23 03.9–406 60.54N 51.33E 0 ¶17192875
IDC Error ellipse: s-maj=183.3km s-min=146.2km az=32.0.
IDC II 26 16 21 04.9–999 56.77N 34.78E 0 ¶17192909
IDC Error ellipse: s-maj=839.0km s-min=33.1km az=91.0.
IDC III 01 09 12 33.6–314 56.28N 43.39E 0

¶17193055

IDC Error ellipse: s-maj=124.8km s-min=69.6km az=103.0.
IDC III 01 10 37 07.9–314 56.34N 43.15E 0

¶17193063

IDC Error ellipse: s-maj=125.0km s-min=67.8km az=102.0.
IDC III 01 11 21 08.5–999 56.47N 27.74E 0

¶17193066

IDC Error ellipse: s-maj=1524.0km s-min=120.9km az=84.0.
IDC III 01 11 34 35.9–314 56.36N 43.47E 0

¶17193069

IDC Error ellipse: s-maj=124.1km s-min=71.2km az=103.0.
IDC III 01 16 12 26.1–999 56.37N 23.35E 0

¶17193081

IDC Error ellipse: s-maj=1958.0km s-min=184.8km az=82.0.
IDC III 01 18 16 12.6–999 56.64N 28.97E 0

¶17193086

IDC Error ellipse: s-maj=1524.0km s-min=107.4km az=86.0.
IDC III 02 09 00 03.1–4.2 52.28N 35.79E 0 3.8,3.7

¶17193119

IDC Error ellipse: s-maj=50.0km s-min=15.9km az=111.0.
IDC III 02 11 34 47.7–314 56.21N 42.99E 0

¶17193127

IDC Error ellipse: s-maj=125.9km s-min=70.7km az=105.0.
IDC III 02 12 22 37.0–330 56.37N 44.61E 0

¶17193130

IDC Error ellipse: s-maj=132.5km s-min=81.2km az=103.0.
IDC III 02 14 15 35.5–969 51.83N 33.88E 0

¶17193135

IDC Error ellipse: s-maj=365.4km s-min=116.5km az=26.0.
IDC III 04 16 16 59.2–999 56.65N 33.25E 0

¶17193241

IDC Error ellipse: s-maj=976.6km s-min=57.4km az=87.0.
IDC III 04 16 34 54.3–999 56.41N 31.99E 0

¶17193243

IDC Error ellipse: s-maj=1083.0km s-min=64.3km az=82.0.
IDC III 10 11 37 37.5–999 56.70N 33.48E 0

¶17193618

IDC Error ellipse: s-maj=1146.0km s-min=46.9km az=88.0.
IDC III 10 13 27 04.4–999 56.95N 29.70E 0

¶17193629

IDC Error ellipse: s-maj=1435.0km s-min=111.5km az=90.0.
IDC III 10 15 23 21.3–999 56.65N 33.59E 0

¶17193636

IDC Error ellipse: s-maj=983.5km s-min=48.1km az=87.0.
IDC III 10 18 14 30.2–999 56.89N 32.78E 0

¶17193647

IDC Error ellipse: s-maj=1262.0km s-min=57.0km az=92.0.
IDC III 14 12 12 48.5–5.9 60.30N 29.55E 0 1.7,1.7

¶17195156

IDC Error ellipse: s-maj=48.4km s-min=37.2km az=126.0.
IDC III 14 14 00 02.5–5.7 60.44N 30.79E 0 1.9,1.9

¶17195169

IDC Error ellipse: s-maj=50.8km s-min=47.1km az=9.0.
IDC III 14 15 01 14.9–5.5 60.45N 29.29E 0

¶17195180

IDC Error ellipse: s-maj=45.9km s-min=33.6km az=124.0.
IDC III 14 15 16 58.0–5.5 60.47N 29.30E 0

¶17195182

IDC Error ellipse: s-maj=45.2km s-min=34.9km az=124.0.
IDC III 14 16 11 54.5–5.8 60.28N 29.54E 0 1.7,1.7

¶17195192

IDC Error ellipse: s-maj=47.3km s-min=34.4km az=126.0.
ISC III 18 09 00 04.7–1.9 52.9N–.10 34.4E–.20 10 10 3-62
IDC III 18 08 59 58.6–2.7 52.22N 35.55E 0 3.7,3.6 ¶17196978
ISCJB III 18 09 00 03.2–2.0 52.95N–.08 34.4E–.30 10 3.5s,3.4b
ISC Event type ke.
ISCJB Event type ke.
IDC III 24 09 02 58.2–1.9 59.64N 22.34E 0 3.3,3.2

¶17198312

IDC Error ellipse: s-maj=24.5km s-min=8.0km az=162.0.
CSEM III 25 09 39 03.8 56.92N 24.69E 0 1.8L

¶602003527

CSEM Event type ke. Error ellipse: s-maj=9999.9km s-min=9999.9km az=-99.0.
IDC III 28 13 41 50.6–436 51.20N 49.34E 0

¶17198958

IDC Error ellipse: s-maj=162.1km s-min=111.7km az=102.0.
IDC III 29 17 04 34.8–999 56.75N 29.60E 0

¶17199089

IDC Error ellipse: s-maj=1472.0km s-min=105.6km az=87.0.
IDC III 29 17 16 31.5–999 56.57N 30.85E 0

¶17199090

IDC Error ellipse: s-maj=1342.0km s-min=81.3km az=85.0.
ISC IV 01 08 00 02.9–1.1 52.48N–.08 35.37E–.09 10 3.3b 12 3-63
ISCJB IV 01 08 00 00.9–1.0 52.54N–.07 35.4E–.10 10 3.2b ¶17199396
IDC IV 01 08 00 01.9–1.3 52.13N 35.68E 0 3.6,3.5
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=13.2km s-min=9.7km az=24.9.
IDC Error ellipse: s-maj=16.9km s-min=9.5km az=128.0.
IDC IV 01 13 52 12.4–5.6 60.36N 30.57E 0 2.1,2.1

¶17199426

IDC Error ellipse: s-maj=55.0km s-min=46.1km az=22.0.
IDC IV 14 08 46 12.7–5.4 60.25N 29.39E 0

¶17200998

IDC Error ellipse: s-maj=35.7km s-min=30.0km az=38.0.
IDC IV 14 18 25 52.6–339 56.58N 30.30E 0

¶17201045

IDC Error ellipse: s-maj=140.6km s-min=80.1km az=90.0.
IDC IV 15 14 36 33.1–510 56.71N 29.29E 0

¶17201136

IDC Error ellipse: s-maj=192.6km s-min=106.3km az=87.0.
IDC IV 15 19 23 22.4–368 57.05N 29.42E 0

¶17201164

IDC Error ellipse: s-maj=154.7km s-min=124.1km az=116.0.
IDC IV 15 21 16 58.6–326 56.47N 30.13E 0

¶17201172

IDC Error ellipse: s-maj=133.2km s-min=84.9km az=91.0.
IDC IV 16 17 40 22.2–455 54.48N 41.91E 0

¶17201248

IDC Error ellipse: s-maj=171.3km s-min=76.8km az=131.0.
IDC IV 19 19 52 59.9–346 56.45N 29.24E 0

¶17201537

IDC Error ellipse: s-maj=143.8km s-min=89.3km az=89.0.
ISC IV 20 08 00 04.6–2.4 52.7N–.10 35.1E–.20 10 8 3-63
IDC IV 20 08 00 00.3–2.8 52.25N 35.81E 0 3.3,3.3s ¶17201601
ISC Event type ke.
IDC Error ellipse: s-maj=34.1km s-min=16.3km az=120.0.
ISC IV 25 02 38 33.6–1.2 59.1N–.20 50.02E–.08 10 8 5-22
ISCJB IV 25 02 38 29.3–.97 59.2N–.10 50.3E–.20 10 3.0s,2.9b ¶17202003
IDC IV 25 02 38 34.6–1.1 59.53N 50.68E 0 3.4,3.4
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=20.2km s-min=7.7km az=34.4.
IDC Error ellipse: s-maj=23.4km s-min=9.6km az=28.0.
IDC IV 26 14 16 50.0–289 50.74N 47.81E 0

¶17202148

IDC Error ellipse: s-maj=130.7km s-min=109.7km az=175.0.
IDC IV 26 14 56 45.5–485 56.91N 29.40E 0

¶17202154

IDC Error ellipse: s-maj=189.0km s-min=110.4km az=91.0.
ISC IV 29 08 00 23.3–2.5 52.9N–.10 34.5E–.20 10 7 4-62
IDC IV 29 08 00 18.5–2.4 52.58N 35.49E 0 3.5,3.3 ¶17202363
ISC Event type ke.

IDC Error ellipse: s-maj=32.9km s-min=13.8km az=114.0.
IDC V 04 17 48 05.1–445 61.46N 41.03E 0

¶17202776

IDC Error ellipse: s-maj=199.0km s-min=130.4km az=173.0.
IDC V 11 14 06 00.9–339 56.99N 29.77E 0

¶17203396

IDC Error ellipse: s-maj=141.1km s-min=89.1km az=99.0.
IDC V 11 16 02 52.4–355 56.77N 29.79E 0

¶17203408

IDC Error ellipse: s-maj=147.7km s-min=104.0km az=98.0.
IDC V 14 07 35 03.1–455 54.06N 42.37E 0

¶17203592

IDC Error ellipse: s-maj=170.1km s-min=83.2km az=132.0.
IDC V 18 07 59 49.1–2.6 52.45N 35.41E 0 3.7,3.5

¶17203865

IDC Error ellipse: s-maj=33.5km s-min=13.1km az=120.0.
IDC V 20 18 24 11.8–358 57.54N 29.85E 0

¶17204067

IDC Error ellipse: s-maj=151.7km s-min=109.9km az=118.0.
IDC V 24 14 19 56.4–342 53.06N 32.99E 0

¶17204385

IDC Error ellipse: s-maj=132.0km s-min=95.0km az=28.0.
IDC V 24 19 02 22.0–358 57.18N 29.85E 0

¶17204399

IDC Error ellipse: s-maj=152.0km s-min=96.7km az=102.0.
IDC V 26 15 15 07.3–346 52.75N 32.86E 0

¶17204513

IDC Error ellipse: s-maj=141.5km s-min=100.7km az=20.0.
IDC VI 01 07 59 29.0–2.7 52.17N 35.69E 0 3.4L,3.3

¶17204870

IDC Error ellipse: s-maj=39.6km s-min=10.4km az=132.0.
IDC VI 02 19 48 48.9–8.1 56.05N 52.87E 0

¶17205021

IDC Error ellipse: s-maj=131.0km s-min=55.5km az=167.0.
ISC VI 02 20 36 01.1–.90 56.6N–.10 53.01E–.08 10 10 3-25
ISCJB VI 02 20 35 58.4–.76 56.56N–.09 53.1E–.10 10 3.1b ¶17205022
IDC VI 02 20 36 01.6–.97 56.65N 53.10E 0 3.2,3.2
ISC Event type ke.
ISCJB Event type ke. Error ellipse: s-maj=15.5km s-min=8.1km az=34.8.
IDC Error ellipse: s-maj=16.0km s-min=9.8km az=24.0.
IDC VI 02 21 09 52.5–3.4 55.85N 52.97E 0 3.2,3.1

¶17205024

IDC Error ellipse: s-maj=80.3km s-min=14.2km az=5.0.
ISC VI 02 21 13 55.0–1.8 57.1N–.40 53.2E–.20 10 5 3-25
IDC VI 02 21 13 54.5–2.1 56.53N 53.15E 0 3.5,3.5 ¶17205025
ISC Event type ke.
IDC Error ellipse: s-maj=60.9km s-min=11.2km az=14.0.
IDC VI 02 21 38 39.6–7.7 55.78N 53.52E 0

¶17205029

IDC Error ellipse: s-maj=141.4km s-min=51.9km az=164.0.
IDC VI 02 22 00 45.8–428 55.96N 53.06E 0

¶17205031

IDC Error ellipse: s-maj=150.8km s-min=123.3km az=141.0.
IDC VI 02 22 23 46.7–7.5 56.25N 52.98E 0

¶17205035

IDC Error ellipse: s-maj=129.5km s-min=50.9km az=172.0.
IDC VI 02 22 48 06.0–401 56.09N 53.23E 0

¶17205036

IDC Error ellipse: s-maj=152.4km s-min=131.2km az=159.0.
IDC VI 02 23 10 08.6–384 56.44N 52.61E 0

¶17205039

IDC Error ellipse: s-maj=143.8km s-min=129.1km az=149.0.
IDC VI 16 19 09 58.9–363 57.38N 29.42E 0

¶17206339

IDC Error ellipse: s-maj=153.0km s-min=104.0km az=106.0.
IDC VI 16 21 15 26.0–339 56.58N 30.49E 0

¶17206347

IDC Error ellipse: s-maj=140.1km s-min=82.2km az=91.0.
IDC VI 17 08 00 19.9–4.8 52.39N 35.52E 0 3.4,3.3

¶17206373

IDC Error ellipse: s-maj=63.9km s-min=16.2km az=122.0.

(726) Northern and central Siberia.

YARS I 26 18 11 32.8–.90 68.58N–.03 129.2E–.10 10

¶601990125

YARS I 27 02 06 49.9–.80 71.14N–.03 128.9E–.20 10

¶601990144

ISC III 08 22 06 52.2–.47 68.18N–.03 127.53E–.04 10 3.7b 50 3-90
IDC III 08 22 06 51.5–.61 68.28N 127.33E 0 3.8,3.7 ¶17193498
ISCJB III 08 22 06 51.2–.35 68.20N–.03 127.4E–.10 10 3.6b,3.7
YARS III 08 22 06 55.6–.40 68.30N–.02 127.48E–.06 10 3.6b,3.7
ISC Event type ke.
ISCJB Event type ke.
ISC IV 21 00 10 39.5–.31 65.50N–.03 124.77E–.04 16–1 4.4b,2.8s 220 4-154
ISCJB IV 21 00 10 36.6–1.4 65.50N–.03 124.72E–.07 6–9 4.3b,2.8s ¶16449643
MOS IV 21 00 10 38.6–1.1 65.58N 124.50E 17 4.5b,2.8s
YARS IV 21 00 10 39.9–.30 65.09N–.04 125.95E–.04 10 4.5b,2.8s
IDC IV 21 00 10 40.7–.34 65.59N 124.78E 20–2 4.3,4.3
NEIC IV 21 00 10 40.9–1.9 65.60N 124.71E 22–14 4.5b,4.3
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=5.5km s-min=4.4km az=145.9.
MOS Error ellipse: s-maj=13.5km s-min=6.8km az=97.5.
IDC Error ellipse: s-maj=8.9km s-min=6.1km az=60.0.
NEIC Event type se. Error ellipse: s-maj=4.2km s-min=4.1km az=149.0.
ISC V 15 10 58 21.5–.75 72.8N–.10 120.96E–.07 10 3.6b 19 3-93
ISCJB V 15 10 58 19.8–.56 72.82N–.09 121.0E–.20 10 3.5b,3.1s ¶17203688
IDC V 15 10 58 19.9–.80 72.76N 121.12E 0 5.9L,3.8
YARS V 15 10 58 26.6–.90 73.14N–.03 123.36E–.09 10 5.9L,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 15 11 57 20.2–.79 72.86N–.09 121.32E–.07 10 3.7b 20 3-93
ISCJB V 15 11 57 17.9–.57 72.88N–.08 121.2E–.20 10 3.5b,3.0s ¶17203691
IDC V 15 11 57 18.5–.79 72.86N 121.15E 0 5.9L,3.8
YARS V 15 11 57 22.8–.80 73.25N–.02 123.24E–.07 10 5.9L,3.8
ISC Event type ke.
ISCJB Event type ke.
ISC V 16 06 49 59.0–.55 72.49N–.08 120.81E–.05 10 3.9b,3.0s 35 3-93
IDC V 16 06 49 57.6–.79 72.68N 120.72E 0 4.0,3.8 ¶17203729
YARS V 16 06 49 58.3–1.2 73.58N–.04 124.0E–.10 10 4.0,3.8
MOS V 16 06 49 58.3–2.0 72.81N 120.40E 9 4.0b,3.8
NEIC V 16 06 49 59.6–.57 72.78N 120.69E 10 4.1b,3.8
ISC Event type se.
IDC Error ellipse: s-maj=23.7km s-min=14.6km az=167.0.
MOS Error ellipse: s-maj=30.8km s-min=16.4km az=89.1.
NEIC Event type se. Error ellipse: s-maj=16.6km s-min=12.0km az=170.0.
ISC V 16 07 02 43.5–.70 72.59N–.10 120.73E–.06 10 3.5b 24 3-93
IDC V 16 07 02 41.9–.83 72.80N 120.99E 0 5.9L,3.8 ¶17203730
MOS V 16 07 02 42.8–1.2 72.89N 120.87E 10 3.9b,3.8
YARS V 16 07 02 46.4–1.0 73.18N–.03 123.0E–.10 10 3.9b,3.8
ISC Event type ke.
ISC V 20 04 51 45.2–.60 72.86N–.03 121.35E–.03 11–3 4.8b,3.9s 759 3-147
ISCJB V 20 04 51 42.1–1.1 72.90N–.02 121.56E–.06 4–6 4.8b,4.0s ¶16530098
IDC V 20 04 51 43.3–.38 72.80N 121.22E 0 4.7L,4.6
MOS V 20 04 51 43.2–.89 72.83N 121.43E 10 5.0b,4.0s
YARS V 20 04 51 46.4–.60 73.17N–.02 122.90E–.06 10 5.0b,4.0s
NEIC V 20 04 51 49.8–.71 72.81N 121.29E 47–6 4.8b,4.0s
ISC Event type se.
ISCJB Event type se. Error ellipse: s-maj=3.8km s-min=2.5km az=137.5.
IDC Error ellipse: s-maj=9.7km s-min=8.5km az=133.0.
MOS Error ellipse: s-maj=14.4km s-min=4.9km az=90.0.
NEIC Event type se. Error ellipse: s-maj=3.3km s-min=2.1km az=153.0.

SEISMOLOGICAL OBSERVATORIES

IN ALPHABETICAL ORDER OF STATION NAME WITH BASIC PARAMETERS

Station Name	*Code*	*Location*	*Geographical Co-ordinates*		*Altitude m*	*Remark*
100 Mile House	HM-BC	British Columbia,Canada	51.6550N	121.4756W	1128	From 1962-07-26 to 1962-10-05
1031 Sheenboro Crescent, Ottawa	OT001	Ontario,Canada	45.4788N	75.4745W	88	From 2001-11-15
1514 Bourcier, Ottawa	OT002	Ontario,Canada	45.4742N	75.5019W	84	From 2005-03-24
16, Winslow Court, Ottawa	OT004	Ontario,Canada	45.3644N	75.7746W	78	From 2005-03-24
2758 Massicotte Lane, Ottawa	OT008	Ontario,Canada	45.3496N	75.6418W	80	From 2005-06-29
29 Palms	TN-	California,U.S.A.	34.1983N	115.9500W	533	From 1962-02-01 to 1962-05-03
413	BUK	Nevada,U.S.A.	37.0505N	116.1890W	1490	From 1965-01-01 to 1970-12-31
416	LWN	Nevada,U.S.A.	36.6183N	116.3930W	808	From 1970-01-01 to 1999-08-25
4D Ranch, Culbertson	O29A	Nebraska,U.S.A.	40.1253N	100.7977W	826	From 2009-05-27 to 2011-04-04
4UR Ranch, Creede	S22A	Colorado,U.S.A.	37.7461N	106.8293W	2626	From 2008-06-15
5 Glenshane	B5GA	Barbados	13.0670N	59.5955W	35	
5 Mile Ranch, Herman	F33A	Minnesota,U.S.A.	45.8398N	96.2929W	313	From 2010-08-22 to 2012-06-07
7 Observatory Cres., Ottawa	OT012	Ontario,Canada	45.3942N	75.7167W	77	From 2001-09-24
959, Brant, Ottawa	OT006	Ontario,Canada	45.4292N	75.6500W	68	From 2006-03-03
9 Mile Ranch, Kaycee	I22A	Wyoming,U.S.A.	43.8924N	106.4840W	1430	From 2008-10-08 to 2010-09-07
A01	A01	Germany	52.2580N	7.3360E	47	
A02	A02	Germany	52.4220N	7.9350E	90	
A04	A04	Germany	52.1880N	8.0810E	140	
A05	A05	Germany	51.9490N	8.6840E	250	
A06	A06	Germany	51.6830N	7.4410E	65	
A07	A07	Germany	51.6960N	8.0100E	85	
A08	A08	Germany	51.6790N	8.9620E	340	
A09	A09	Germany	51.4920N	8.0640E	235	
A10E	A10E	Germany	51.4940N	8.4530E	360	
A11E	A11E	Germany	51.3000N	7.4140E	270	
A12	A12	Germany	51.2450N	7.1990E	325	
A13	A13	Germany	51.1310N	7.1350E	165	
A14	A14	Germany	50.9470N	7.4210E	350	
A15	A15	Germany	50.7500N	7.4490E	155	
A@15sbjarnarstat ir	IASB	Iceland	64.7480N	21.3250W	94	
A16E	A16E	Germany	50.8460N	6.8920E	100	
A17	A17	Germany	50.7680N	6.7230E	130	
A18	A18	Germany	50.5640N	8.0860E	370	
A19	A19	Germany	50.6050N	7.8100E	415	
A20	A20	Germany	50.7020N	8.2260E	380	
A21E	A21E	Germany	50.7750N	8.0400E	330	
A33	A33	Germany	51.9510N	7.4070E	165	
A50	A50	Germany	51.2180N	7.9930E	540	
A51	A51	Germany	51.1130N	7.8890E	300	
A52	A52	Germany	50.9770N	7.7550E	510	
A53	A53	Germany	50.8740N	7.6380E	390	
A54E	A54E	Germany	50.7240N	7.5550E	320	
A70	A70	Germany	50.8390N	6.8850E	115	
A71	A71	Germany	51.0360N	6.4320E	-300	
A72	A72	Germany	51.0050N	6.8200E	-300	
A80	A80	Germany	50.7410N	8.6390E	230	
A82	A82	Germany	51.0510N	9.1760E	225	
A83	A83	Germany	51.4260N	9.6840E	200	
A84	A84	Germany	51.5460N	9.9660E	270	
A85	A85	Germany	50.9160N	8.9430E	220	
Aachen	BA01	Nordrhein-Westfalen,Germany	50.7789N	6.0614E	216	From 2006-10-01
Aachen	AAC	Nordrhein-Westfalen,Germany	50.7833N	6.0833E	179	
Aaknes	AKN	Norway	62.1783N	6.9974E	508	From 2009-11-01
Aasiaat, Greenland	ASIG	Greenland	68.7060N	52.8710W	60	From 2004-05-11
Abakan	ABNR	Krasnoyarskiy Kray,Russia	53.7250N	91.4350E	125	From 2003-10-29
Abant	ABT	Turkey	40.6058N	31.3208E	1794	From 1991-01-01 to 1993-10-01
Abaselama	ABSE	Eritrea	14.8847N	39.3272E	2392	
Abashiri	ABJ	Abashiri,Japan	44.0150N	144.2830E	38	
Abashiri 2	ABJ2	Abashiri,Japan	43.8417N	143.8700E	180	From 1994-02-10 to 2001-08-03
Abashiri--Tokoro	JTKR	Abashiri,Japan	43.9707N	143.9082E	42	
Abastumani	ABS	Georgia,Georgia	41.7555N	42.8134E	1590	From 1940-01-01
Abbadia di Fiastra (Tolentino)	T0402	Italy	43.2213N	13.4063E	212	
Abbazia di Naro	NARO	Italy	43.6108N	12.5806E	271	From 2011-01-17
Abbeville	254A	Georgia,U.S.A.	31.9457N	83.2905W	78	From 2012-03-14
Abborrasen	ABB	Sweden	57.8450N	12.7860E	239	From 1980-01-01 to 1991-12-31
Abdulvahap	ADVT	Turkey	40.4332N	29.7383E	193	From 2006-05-19
Abeche	ABC	Chad	13.8272N	20.8444E	550	From 1965-01-01 to 1968-06-30
Aberdeen	ABE	Scotland,United Kingdom	57.1667N	2.1000W	12	
Aberfeldy	ABEM	Victoria,Australia	37.7194S	146.3890E	548	
Aberfoyle	EAB	Scotland,United Kingdom	56.1881N	4.3400W	250	From 1969-01-01
Aberstueckl	ABSI	Italy	46.7285N	11.3205E	1801	From 2006-12-13
Abfaltersbach	ABTA	Austria	46.7474N	12.5123E	1041	From 2006-12-13
Abgarm-Qazvin	QABG	Iran	35.7085N	49.5824E	2084	From 2012-04-20
Abha	ABHA	Saudi Arabia	18.2500N	42.7500E	2200	From 1988-11-01
Abilene, Hawley	ABTX	Texas,U.S.A.	32.6238N	99.6431W	502	From 2009-02-12
Abington	ABG	Pennsylvania,U.S.A.	40.1167N	75.1333W		
Abisko	ABK	Sweden	68.3417N	18.8167E	385	
Aboa	ABOA	Dronning Maud Land	73.0500S	13.4167W	200	From 2007-01-18
Abo Dabab	NADB	Egypt	25.3405N	34.5021E	295	
Abou Kooc	KOOC	Syria	33.6592N	36.7633E	1120	From 1994-12-01
Abou Rabah	RABH	Syria	34.4354N	37.2054E	738	From 1994-12-01
Abra de Ilog	ABP	Mindoro,Philippines	13.4440N	120.7270E		From 1976-02-01 to 1977-05-22
Abri du Galion	ABGF	Guadeloupe,France	16.0323N	61.6603W	1150	
Abries	OG22	Provence-Cote d'Azur,France	44.8227N	6.9452E	1810	
Abriola	ABRE	Italy	40.5008N	15.7601E	1542	
Absaloka Mine, Hardin	F21A	Montana,U.S.A.	45.8231N	107.1233W	1026	From 2008-08-12 to 2010-08-08
Absolon Red Butte, Lander	K19A	Wyoming,U.S.A.	42.8247N	108.8466W	1878	From 2007-11-08 to 2009-10-07
Abu 'Arish	ABAR	Saudi Arabia	16.9420N	42.9390E	135	From 1996-03-01
Abu Hadid	AAHD	Egypt	23.7474N	32.7511E	240	
Abu Rudays	HRDS	Egypt	28.7120N	33.2975E	260	
Abu Simbel	ASL	Egypt	22.3369N	31.6161E		From 1975-10-01
Abu Simbel	ABUS	Egypt	22.2500N	31.1372E	230	
Abuyama	ABU	Osaka,Japan	34.8603N	135.5740E	200	From 1966-07-08
Abymes - Guadeloupe	GABY	Guadeloupe,France	16.2706N	61.5044W	20	From 2005-02-01
Academy	AY-	South Dakota,U.S.A.	43.5278N	99.1083W	610	From 1962-07-14 to 1962-10-05
Academy	AY-SD	South Dakota,U.S.A.	43.5278N	99.1083W	610	From 1962-07-14 to 1962-10-05
Acapulco	ACX	Guerrero,Mexico	16.8694N	99.8583W	300	
Acapulco	ACP2	Mexico	16.8743N	99.8865W	167	From 2009-02-16
Acatlan	ACP	Puebla,Mexico	18.2078N	98.0597W	1250	
Accomac	S61A	Virginia,U.S.A.	37.6804N	75.6727W	58	
Accumuli	RM31	Italy	42.7023N	13.2331E	1034	From 2009-09-17 to 2010-02-15
Aceler^‡grafo del Angel	AANG	Ecuador	0.6208N	77.9397W	3011	
Acerenza	ACER	Italy	40.7867N	15.9427E	690	From 2007-07-05
Acheberg	ACHB	Switzerland	47.5876N	8.2543E	470	From 1983-06-01
Achilles Lake	ACKN	Northwest Territories,Canada	64.9915N	110.8708W	467	
Achnashellach	KAC	Scotland,United Kingdom	57.4999N	5.2982W	330	From 1983-01-01
Achvaich	MVH1	Scotland,United Kingdom	57.9250N	4.1825W	185	From 1984-01-01
Aci Sant'Antonio	EACI	Sicily,Italy	37.6140N	15.1290E	290	From 1994-10-01
Acomizza, Italy	ACOM	Italy	46.5480N	13.5130E	1788	
Acorn Hollow, Los Molinos	O03C	California,U.S.A.	39.9971N	122.0319W	85	From 2005-04-19 to 2007-09-06
Acoyapa	ACON	Nicaragua	11.9680N	85.1740W	107	
Acoyapa	ACY	Nicaragua	11.9977N	85.2252W	400	From 1975-01-01
Acquaformosa (CS)	T0702	Italy	39.7209N	16.0835E	882	From 2012-05-25
Acrocorinthos	ACOR	Greece	37.8902N	22.8692E	437	From 2008-12-29
Acton	ACTO	Ontario,Canada	43.6087N	80.0624W	360	From 1991-07-09
Adagdak	AD8	Alaska,U.S.A.	51.9806N	176.6000W	259	From 1974-01-01 to 1992-02-01
Adak	ADA	Alaska,U.S.A.	51.8633N	176.6550W		From 1949-07-01 to 1954-04-30
Adak	ADK	Alaska,U.S.A.	51.8837N	176.6840W	116	From 1966-01-01
Adak Island	AD-IS	Alaska,U.S.A.	51.8750N	176.6792W	61	
Adak Island	AD-	Alaska,U.S.A.	51.8750N	176.6792W	61	
Adam Dziewonski Observatory (Oak Ridge)	HRV	Massachusetts,U.S.A.	42.5064N	71.5583W	200	From 1975-08-01
Adamit	ADI	Israel	33.0789N	35.2250E	470	From 1983-07-01
Adams	ADN	New York,U.S.A.	43.8333N	76.1197W	137	From 1974-11-24 to 1977-07-27
Adamsville	O52A	Ohio,U.S.A.	40.1158N	81.8361W	331	From 2012-08-25
Adamuz	EADA	Spain	38.1673N	4.5771W	565	
Adana	ADAT	Turkey	37.0623N	35.3550E	150	From 1992-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Adana	ADT	Turkey	37.0638N	35.3550E	150	From 1979-12-01 to 1999-08-25
Adana	AKO	Turkey	37.4615N	35.4460E	450	From 2007-02-13
ADANA	SAIM	Turkey	37.9766N	36.0823E	1028	From 2011-10-19
Addanki	ADKI	Andhra Pradesh,India	15.8446N	79.9686E	49	From 2008-09-01
Addlestone Acy	ADSC	South Carolina,U.S.A.	32.8119N	80.0167W	6	
Adel	AOT	Oregon,U.S.A.	42.1665N	119.9033W	1370	
Adeladia	PADM	California,U.S.A.	35.6393N	120.8640W	471	
Adelaida	ADES	El Salvador	13.6583N	89.3583W	1200	From 1991-12-01
Adelaide	ADE	South Australia,Australia	34.9669S	138.7090E	655	From 1958-06-01
Adelanto	ADL	California,U.S.A.	34.5563N	117.4170W	900	From 1975-02-01
Adelanto Receiving Station	ADO	California,U.S.A.	34.5505N	117.4339W	908	From 2000-08-09
Adell	L07A	Oregon,U.S.A.	42.0187N	119.3398W	1816	From 2006-06-09 to 2008-04-17
Aden	ADEN	Yemen	12.7760N	44.9830E	41	From 1994-11-01
ADIBADRI	ABI	Uttar Pradesh,India	30.1520N	79.2084E	1595	From 2007-06-30
Adirondack	RSNY	New York,U.S.A.	44.5483N	74.5300W	396	
Adirondack Community College	ACCN	New York,U.S.A.	43.3843N	73.6678W	340	
Adis Abeba	AAE	Ethiopia	9.0292N	38.7656E	2442	From 1959-03-01
Adit at Lawrence Berkeley Lab, Berkeley, CA	VAK	California,U.S.A.	37.8775N	122.2489W	241	From 2010-08-31 to 3000-12-31
Adjabya	LJBD	Libya	30.9130N	20.1982E	49	
ADJUD	ADJ	Romania	46.0952N	27.1821E	102	From 2008-10-23
Administraci^‡n Zonal Eloy Alfaro - Quito	VIFL	Ecuador	0.2486S	78.5251W	2839	
Administraci^‡n Zonal Quitumbe - Quito	QUIB	Ecuador	0.2964S	78.5480W	2921	
Adndan	AADN	Egypt	22.1224N	31.5307E	260	
Adobe Creek	GACM	California,U.S.A.	38.8728N	122.8620W	985	
Adobe Valley	AVC	California,U.S.A.	37.9160N	118.7330W	2225	From 1975-07-01 to 1977-09-30
Adra	EXAD	Spain	36.7500N	3.0010W	24	
Adra	ADRA	Spain	36.7893N	3.0487W	0	
Adria, Italy	ADRI	Italy	45.0378N	12.0167E	1	From 2008-01-26
Adriano, Sevilla	E011	Spain	37.2103N	5.9905W	56	From 2007-09-23 to 2009-06-11
Aeknabara	AEKI	Sumatera,Indonesia	2.1017N	98.4536E	840	From 1991-01-01
Aeronautique	ZAM	Martinique,France	14.5727N	61.0287W	25	
Aery, Baudette	B34A	Minnesota,U.S.A.	48.4860N	94.6501W	354	From 2010-09-14 to 2012-08-02
Aespoe	ASPU	Sweden	57.4185N	16.5992E	10	From 2005-04-14
Afareaitu	AFR	Moorea,French Polynesia	17.5383S	149.7780W	50	
Afiamalu	AFI	Samoa Islands	13.9094S	171.7770W	706	From 1958-04-01
Afif	AFIF	Saudi Arabia	24.1010N	43.1800E	950	From 1990-03-01
'Afif	AFFS	Saudi Arabia	23.9267N	43.0005E	1090	
Afjeh	IAFJ	Iran	35.8560N	51.7125E	2750	From 1996-01-01
Afriz	AFRZ	Iran	33.4252N	59.0150E	1449	From 2013-11-10
Af¯ar-Bala (Ankara)	AFSR	Turkey	39.4468N	33.0707E	1055	From 2008-09-05
Aftenstjerne Lake, Greenland	ASSG	Greenland	82.1762N	38.1082W	318	From 2004-07-24
Afyonkarahisar	AFYO	Turkey	38.7871N	30.2988E	1081	From 2013-02-20
AFYON_Kizioren	KZIL	Turkey	38.2575N	30.1412E	1202	From 2011-09-26
Agadir Fac de Sc.	AFS	Morocco	30.4200N	9.5000W	75	From 2001-06-02
Agadir Oufela	AOF	Morocco	30.4400N	9.5600W	90	From 2001-06-02
Agalyk	AGL	Uzbekistan	39.5169N	66.8811E	865	From 1905-05-16
Agartala	AGT	Tripura,India	23.8833N	91.2500E	17	
Agas	AASA	Salta,Argentina	24.7977S	65.4038W	1180	From 1978-05-26
Agassiz Lake	AGAM	Alaska,U.S.A.	60.1542N	141.0330W	1024	
Agassiz National Wildlife Refuge	AGMN	Minnesota,U.S.A.	48.2978N	95.8619W	351	From 2006-09-20
Agave Hill	AGAC	California,U.S.A.	33.6384N	116.4011W	809	
Agdam	AGDM	Azerbaijan	40.1083N	47.1083E	500	From 2013-10-13
Agenahambo	AGE	Papua New Guinea	8.8136S	148.0990E	303	From 1963-08-01 to 1972-12-31
Aggia Anna	VAG	Greece	38.3161N	22.9003E	760	From 1982-10-01
Aghdareh	HAGD	Iran	34.8220N	49.1397E	2120	From 2011-04-01
AGIA	AGIA	Assam,India	26.0663N	90.4642E	75	From 2012-01-01
Agia Marina, Milos Island	MHLO	Greece	36.6898N	24.4017E	174	From 2010-06-04
Agia Thekli	AGT1	Greece	38.2505N	20.3840E	82	From 2014-02-11
Agillar	DAGI	Turkey	41.0778N	41.9142E	1188	From 2007-09-25
Agin	AGN	Turkey	38.9483N	38.7154E	914	From 1973-09-20
Agios Charalampos	AXAR	Greece	38.7664N	22.6590E	406	From 2008-04-01
Agios Efstratios	EFSA	Greece	39.5402N	24.9886E	12	From 2010-05-27
Agios Georgios	AGG	Greece	39.0222N	22.3303E	540	From 1989-04-01
AgiosGiorgios, Aigialia, West Greece	AGEO	Greece	38.2649N	22.0635E	-118	From 2000-05-15
Agios Ioannis, Aigialia, West Greece	AIOA	Greece	38.1939N	22.0587E	68	From 2000-05-15
Agios Nikolaos	AGN1	Crete,Greece	35.1879N	25.7155E	9	From 2011-09-01
Agios Nikonas	DYR	Greece	36.7622N	22.3337E	426	From 2008-07-01
Agira	CAGR	Sicily,Italy	37.6220N	14.4999E	548	From 2010-05-21
Agolada(Pontevedra)	EAGO	Spain	42.8027N	8.0892W	500	From 2010-03-24
Agordo	AGOR	Italy	46.2829N	12.0472E	631	From 2007-06-08
Agoura	AGOC	California,U.S.A.	34.1465N	118.7670W	259	
Agra	AGRA	Uttar Pradesh,India	27.2305N	77.9438E	0	
Agra	AGR	Uttar Pradesh,India	27.1333N	78.0167E	163	
Agrapidokambos, Nafpaktia, West Greece	AGRP	Greece	38.3959N	21.7228E	281	From 2012-06-20
Agrelo	AAGR	Mendoza,Argentina	33.0852S	68.8284W	1159	
Agri	AGRT	Turkey	39.6088N	42.9870E	1440	From 1997-08-26 to 2006-11-21
Agrihan Island	AGRI	Mariana Islands	18.7331N	145.6530E	25	From 1994-04-23
A¯r¯–/Merkez-Kocata¯	KOTA	Turkey	39.8022N	43.2058E	1822	From 2014-12-05
Agrinio	AGR2	Greece	38.6319N	21.4136E	97	From 2012-10-15
Agron	ERON	Spain	37.0185N	3.8058W	1304	From 1994-03-01
Agua Clara, Sierra Llorona en Colsn	ACLA	Panama	9.3650N	79.7065W	460	From 2004-10-01
Aguadilla	AGP	Puerto Rico	18.4075N	67.1410W	220	
Aguadilla, PR	AGPR	Puerto Rico	18.4675N	67.1112W	117	From 2004-10-01
Agualva	AGA	Azores,Portugal	38.7845N	27.1732W	80	From 1981-05-16 to 2000-05-17
Agualva, Azores	PAGU	Azores	38.7673N	27.1843W	250	From 2014-11-05
Aguas Belas	AGBLB	Pernambuco,Brazil	9.0387S	37.0454W	448	
Aguascalientes	AGX	Aguascalientes,Mexico	21.8787N	102.3010W		From 1988-01-01
Aguas Calientes	AGUN	Nicaragua	12.6667N	86.8367W	300	
Aguas Claras	ACAL	Costa Rica	10.6340N	85.0350W	767	
Aguni-jima	JAGN	Ryukyu Islands,Japan	26.5888N	127.2422E	12	
Agust^›n Codazzi, Colombia	CODC	Colombia	9.9350N	73.4442W	108	From 2011-07-24
Ahir Dag	KAHT	Turkey	37.6307N	36.8734E	1830	From 2003-11-05
Ahlen	BAHL	Nordrhein-Westfalen,Germany	51.7369N	7.8217E	92	
AHRAM	AHBU	Iran	28.8640N	51.2950E	80	From 2010-06-02
Ahram - Rada'a city Al-Baydha Gov. - Yemen	RADA	Yemen	14.4390N	44.8530E	2353	From 2001-09-22
Ahua	AHA	Hawaii,U.S.A.	19.3733N	155.2650W	1070	From 1958-01-01
Ahuacatlan	ANIG	Nayarit,Mexico	21.0538N	104.5207W	1009	From 2006-09-30
Ahuachapan	AHU	El Salvador	13.9217N	89.8458W	810	
Ahwaz	AHWZ	Iran	31.3300N	48.6438E	19	From 2010-04-27
Aiani, KOZANI	AIA1	Greece	40.1641N	21.8202E	460	From 2013-07-15
Aibetsu	AIB	Kamikawa,Japan	43.9067N	142.6461E	260	
Aicho	AICH	Tanzania,United Republic of Tanzania	3.6863S	35.5375E	992	
Aida	JAD	Okayama,Japan	34.9403N	134.1680E	170	
Aidlin Power Plant 1	AL1	California,U.S.A.	38.8382N	122.8835W	704	
Aidlin Power Plant 2	AL2	California,U.S.A.	38.8160N	122.8980W	657	
Aidlin Power Plant 3	AL3	California,U.S.A.	38.8275N	122.8569W	781	
Aidlin Power Plant 4	AL4	California,U.S.A.	38.8386N	122.8355W	661	
Aidlin Power Plant 6	AL6	California,U.S.A.	38.8000N	122.8613W	749	
Aigio	AIG2	Greece	38.2418N	22.0724E	123	From 2011-10-01
Aigle	AIGLE	Switzerland	46.3416N	6.9534E	800	From 1998-09-01
Aigle Rue de la Gare	SAIG	Switzerland	46.3168N	6.9667E	410	From 2012-02-01
Aigu^¡	OGAUY	Uruguay	34.3333S	54.7122W	257	From 2013-03-22
Aigurande	NE08	Centre,France	46.4200N	1.7300E	360	From 1982-11-01 to 1984-12-31
Aikawa	AIK	Niigata,Japan	38.0217N	138.2433E	35	
Ailbek	ABKT	Turkmenistan	37.9304N	58.1189E	678	
Ainahou	AIN	Hawaii,U.S.A.	19.3720N	155.4580W	1524	From 1973-04-26
'Ain El Ouahch	CAEH	Algeria	36.7800N	6.8500E	383	
'Ain N'Sour	EANR	Algeria	35.9500N	1.1000E	727	
Ain Smara	CASM	Algeria	36.2600N	6.4900E	680	
Ainzon	NE11	Spain	41.8140N	1.5170W	440	From 1983-01-01 to 2001-07-28
Aioi	JAI	Tokushima,Japan	33.7923N	134.4515E	165	
Airport Hangar	APH	New York,U.S.A.	43.8413N	74.4970W	564	From 1974-07-01 to 1983-10-31
Airport Road	AARM	California,U.S.A.	39.2762N	121.0250W	930	From 1976-07-20
Aisen	TS1	Chile	45.4585S	72.8232W	42	
Aisen	TS5	Chile	45.3217S	73.0883W	35	
Aisen	TS2	Chile	45.3748S	73.0350W	35	
Aisen	TS4	Chile	45.3720S	73.1268W	2	
Aisen	TS6	Chile	45.3950S	73.0060W	5	
Aisen	TS3	Chile	45.4077S	73.0662W	5	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Aitape	AITP	Papua New Guinea	3.1384S	142.3489E	2	
Ait Ouarda	AIT	Morocco	32.1100N	6.5110W		From 1980-06-01
Aizawl	AZL	Mizoram,India	23.7384N	92.6897E	969	
Aizu	AID	Fukushima,Japan	37.5667N	140.1170E	526	
AIZWAL	AIZW	Mizoram,India	23.7384N	92.6897E	969	From 2011-05-01
Ajaccio	AJAF	Corse,France	41.9833N	8.7302E	210	From 1991-12-03
Ajai Ranch	AJAR	Arizona,U.S.A.	34.8860N	110.5720W	1622	
Ajban	AJN	Abu Dhabi,United Arab Emirates	24.5626N	54.9865E	67	
Ajiro2	AJI	Shizuoka,Japan	35.0450N	139.0918E	59	
Ajlon	AJLJ	Jordan	32.3270N	35.7270E	1175	
Ajmer	AJM	Rajasthan,India	26.4792N	74.6431E	540	
Ajmer	AJMR	Rajasthan,India	26.4791N	74.6432E	540	
Akaike	JFA	Fukuoka,Japan	33.7120N	130.7952E	130	
Akama	AKM	Fukuoka,Japan	33.8122N	130.5972E	60	
Akamas	AKMC	Cyprus	35.0270N	32.3300E	416	From 1998-11-16
Akamas	AKMS	Cyprus	35.0180N	32.3350E	346	From 2013-07-01
Akaroa Harbour	AKCZ	South Island,New Zealand	43.8721S	172.9098E	374	From 2012-03-01
Akbulak array	ABKAR	Kazakhstan	49.2556N	59.9431E	243	From 2003-10-27
Akbulak array site	AB08	Kazakhstan	49.2387N	59.9280E	243	From 2003-10-27
Akbulak array site	AB09	Kazakhstan	49.2614N	59.9181E	238	From 2003-10-27
Akbulak array site	AB05	Kazakhstan	49.2736N	59.9431E	244	From 2003-10-27
Akbulak array site	AB02	Kazakhstan	49.2591N	59.9466E	241	From 2003-10-27
Akbulak array site	AB04	Kazakhstan	49.2578N	59.9371E	249	From 2003-10-27
Akbulak array site	AB31	Kazakhstan	49.2556N	59.9431E	243	From 2003-10-27
Akbulak array site	AB06	Kazakhstan	49.2611N	59.9693E	237	From 2003-10-27
Akbulak array site	AB03	Kazakhstan	49.2511N	59.9431E	243	From 2003-10-27
Akbulak array site	AB07	Kazakhstan	49.2410N	59.9593E	235	From 2003-10-27
Akbulak array site	AB01	Kazakhstan	49.2556N	59.9431E	243	From 2003-10-27
Akcadag	AKCD	Turkey	38.2956N	37.9224E	1376	From 2007-06-05
Akcakoca	AKC	Turkey	40.0244N	31.1808E	150	From 1979-12-01 to 1999-08-25
Akdag	AKDA	Turkey	40.1035N	41.3636E	1883	From 2012-11-08
Akdamar-Van	AKDM	Turkey	38.3285N	42.9800E	1662	From 2012-11-29
Akdeniz- K¯–br¯–s	AKDN	Cyprus	35.2977N	32.9677E	90	From 2008-11-19
Akfadou	AKF	Algeria	36.6333N	4.5667E	1545	
Akhalkalaki	AKH	Georgia,Georgia	41.4100N	43.4928E	1708	From 1950-01-01
Akhelmad	IAKL	Iran	36.6022N	58.7566E	2508	From 1997-03-01
Akhisar	AKS	Turkey	38.8790N	27.8130E	370	
Akhisar	AKHS	Turkey	38.8788N	27.8138E	370	From 2006-07-13
Akhty	AKT	Dagestan,Russia	41.4800N	47.7300E	1200	
Ak¯–nc¯–lar- K¯–br¯–s	AKIN	Cyprus	35.0153N	33.4661E	230	From 2008-11-18
Akirkeby	BSD*	Denmark	55.1139N	14.9147E	88	From 1981-11-03
Akita	AKI	Akita,Japan	39.7183N	140.1017E	10	
Akita	AKI1	Akita,Japan	39.7150N	140.1033E	2	From 1989-11-01
Akita 2	AKIJ	Akita,Japan	39.7350N	140.1417E	65	From 1990-04-25
Akitakoma	KOMT	Akita,Japan	39.7800N	140.7700E	680	
Akkeshi	AKK	Kushiro,Japan	43.0171N	144.8423E	80	From 1976-07-01
Akkeshi	JAK	Abashiri,Japan	42.9962N	144.6965E	20	
Akkus	AKKT	Turkey	40.7844N	37.0136E	1593	From 1992-01-01 to 1994-06-30
Akkuyli	AKUL	Tajikistan	38.4300N	68.5800E		
Akkuyu-Mersin	AKKU	Turkey	36.1587N	33.5508E	144	From 2011-07-01
Akkuyu-Mersin	AKK1	Turkey	36.1435N	33.5405E	4	From 2011-07-01
Akkuyu-Mersin	AKK2	Turkey	36.1373N	33.5486E	1	From 2011-07-01
Akola	AKL	Maharashtra,India	20.7028N	77.0153E	310	
Akosombo	AKGH	Ghana	6.2433N	0.0403E	377	From 1987-01-01
Akrata	AKR1	Greece	38.1536N	22.3133E	137	From 2012-09-01
AKSARAY - Altinkaya	AKSY	Turkey	38.6497N	33.7607E	973	From 2011-03-16
AK-SAY(Kyrgyzstan)	ASAI	Kyrgyzstan	40.9178N	76.5210E	3021	From 2009-07-29
Aktash	AKAR	Altayskiy Kray,Russia	50.3200N	87.6200E	1380	
Aktobe	AKB	Kazakhstan	50.2600N	58.1000E		
Aktoprak	AKTT	Turkey	37.4860N	34.4680E	1550	From 1993-01-01
Aktyubinsk	AKTK	Kazakhstan	50.4348N	58.0164E	379	From 1994-10-01 to 2005-07-20
Aktyubinsk	AKTO	Kazakhstan	50.4348N	58.0164E	314	From 2005-07-20
AKTYUBINSK INFRASONIC ARRAY REFERENCE POINT	AKAR	Kazakhstan	50.4070N	58.0348E	369	From 2006-05-11
Akulivik	AKVQ	Quebec,Canada	60.8080N	78.1912W	17	From 2006-09-15
Akureyri	AKU	Iceland	65.6867N	18.1067W	24	From 1964-07-31 to 2002-11-30
Akureyri	AKU-	Iceland	65.6717N	18.1000W		
Akutan	AKUT	Alaska,U.S.A.	54.1352N	165.7719W	19	
Akutan	AKA	Alaska,U.S.A.	54.1358N	165.7700W	12	
Akutan 1	AKA1	Alaska,U.S.A.	54.1358N	165.7700W	12	
Akutan 2	AKA2	Alaska,U.S.A.	54.1242N	165.7783W	90	From 1996-08-01 to 2004-01-14
Akutan 4	AKA4	Alaska,U.S.A.	54.1100N	165.7317W	135	From 1996-08-01 to 2004-01-14
Akutan 5	AKA5	Alaska,U.S.A.	54.1552N	165.8650W	225	From 1996-08-01 to 2004-01-14
Akutan Broad B.	AKBBA	Alaska,U.S.A.	54.0984N	165.9318W	310	
Akutan Green Grass	AKGG	Alaska,U.S.A.	54.1988N	165.9916W	326	
Akutan Harbor	AHB	Alaska,U.S.A.	54.1153N	165.8157W	447	
Akutan Long Valley	AKLV	Alaska,U.S.A.	54.1627N	165.9556W	551	
Akutan Morgan	AKMO	Alaska,U.S.A.	54.0912N	166.0106W	277	
Akutan Reef Bight	AKRB	Alaska,U.S.A.	54.1301N	166.0687W	334	
Akutan Spr's Bay	HSB	Alaska,U.S.A.	54.1868N	165.9124W	497	
Akutan Strait	AKSA	Alaska,U.S.A.	54.1358N	165.6967W	213	
Akutan Volcano	AKV	Alaska,U.S.A.	54.1262N	165.9627W	863	
Akutan Zero	ZRO	Alaska,U.S.A.	54.0916N	165.9780W	446	
Akyaka	EAK	Turkey	40.6862N	43.6069E	1613	From 2009-10-01
Akyazi	AKY	Turkey	40.6630N	30.6594E	110	From 1979-01-01 to 1999-08-25
Ala-Archa	AAK	Kyrgyzstan	42.6375N	74.4942E	1633	From 1990-09-01
Alabaster Cavern State Park	ACO	Oklahoma,U.S.A.	36.6986N	99.1461W	521	From 1977-06-22
Alagyaz	ALGS	Armenia	40.6800N	44.2867E	2050	
Alaid	ALID	Kamchatskaya Oblast',Russia	50.8690N	155.5500E	1400	From 2000-04-01
Al Ain	ALNE	United Arab Emirates	24.0561N	55.7509E	342	
Alamagan	ALMG	Mariana Islands	17.6010N	145.8380E	490	From 1991-01-01
Alamo	ALA	Nevada,U.S.A.	37.2417N	115.1150W		From 1971-01-01 to 1973-04-30
Alamocita Creek, Datil	X21A	New Mexico,U.S.A.	34.4457N	107.7857W	2141	From 2008-02-09 to 2009-12-04
Alamut, Qazvin	QALM	Iran	36.4320N	50.6465E	2211	From 2012-04-20
Aland	AAL	Finland	60.1780N	19.9936E	10	From 2004-04-15
Alanya-ANTALYA	ALAN	Turkey	36.5570N	32.0327E	215	From 2012-10-17
Al Areen	BEE	Bahrain	26.0167N	50.5217E		
Al Aritein	ARTJ	Jordan	32.2467N	36.8283E	1058	From 1987-02-23
Al Arnab	ARNB	Syria	35.8608N	35.9722E	930	From 1995-11-01
Alasht	IALA	Iran	36.0829N	52.8099E	2600	From 2000-08-01
Al Ashush, Dubai	ASUD	United Arab Emirates	24.6260N	55.3292E	132	From 2006-09-19
Alassa	ALAS	Libya	32.8425N	11.6138E	73	
Alausˆ›, Posada N	ALAU	Ecuador	2.2061S	78.8483W	2763	From 2012-07-18
Al 'Ayyat	AYT	Egypt	29.7044N	31.1529E	145	
Al Bad'	BDAS	Saudi Arabia	28.4300N	35.1000E	530	
Al Bad'	BADA	Saudi Arabia	28.5660N	34.9620E	495	From 1986-01-01
Albannette	OG18	Rhone-Alpes,France	45.1932N	6.4290E	1455	From 1990-12-04
Albanya	ALBA	Spain	42.3128N	2.7235E	400	
Al Bayda'	BDHA	Yemen	13.9750N	45.5670E	2000	From 1994-11-01
Albemarle	AE-NC	North Carolina,U.S.A.	35.4336N	80.0597W	183	From 1966-12-16 to 1966-12-20
Albemarle	AE-	North Carolina,U.S.A.	35.4336N	80.0597W	183	From 1966-12-16 to 1966-12-20
Alberni	ALB	British Columbia,Canada	49.2717N	124.8300W	25	From 1951-01-01
Albert Glenn Thornton	X60A	North Carolina,U.S.A.	34.5773N	77.9768W	12	From 2013-03-10
Alberton, Johannesburg	ALBD	South Africa	26.2596S	28.1391E	1585	From 2010-03-19
Alberton, Montana	ALMT	Montana,U.S.A.	47.0300N	114.4440W	1696	From 2006-10-20
Al Beshri	BSHR	Syria	35.6685N	39.8185E	852	From 2002-04-01
Albida	BIDA	Syria	35.0138N	36.3212E	930	From 1995-11-01
Alboran	EALB	Spain	35.9399N	3.0343W	20	
Alboran Island OBS	ALBO	Spain	35.9318N	3.0188W	-45	From 2009-10-03
Al Budayyi	BBU	Bahrain	26.2150N	50.4567E		From 1986-01-01
Albunol	EXAL	Spain	36.7910N	3.2030W	286	
Albuquerque	ABQ	New Mexico,U.S.A.	34.9425N	106.4570W	1849	From 1974-01-01
Albuquerque	W22A	New Mexico,U.S.A.	35.0719N	106.8674W	1813	From 2008-01-09 to 2010-02-07
Albuquerque	ALQ	New Mexico,U.S.A.	34.9425N	106.4575W	1849	
Albuquerque	ANMO	New Mexico,U.S.A.	34.9459N	106.4572W	1820	From 1974-08-01
Alcan	ALC	Alaska,U.S.A.	62.6225N	141.0080W	582	From 1979-09-25
Alcanar	ALCN	Spain	40.5500N	0.4800E	177	From 2009-10-05
Alcedo, Punta Alfaro	ALCE	Galapagos,Ecuador	0.4416S	91.9707W	980	From 2012-10-07
Alcochete	PACT	Portugal	38.7680N	8.8333W	30	
Alcott Elementary School	ALCT	Washington,U.S.A.	47.6475N	122.0370W	55	

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Alcoutim	PALC	Portugal	37.4647N 7.4758W	73	
Alcova	K21A	Wyoming,U.S.A.	42.6332N 107.2510W	1960	From 2008-07-16 to 2010-05-15
Aldan	ALDR	Sakha,Russia	58.6100N 125.4094E	682	
Alder Creek	ACK	Alaska,U.S.A.	65.9542N 162.1890W	377	
Alder Peak	PAPM	California,U.S.A.	35.9128N 121.3620W	1015	
Alders End	HAE	England,United Kingdom	52.0376N 2.5475W	224	From 1982-01-01
Alder Springs	GASB	California,U.S.A.	39.6547N 122.7160W	1354	From 2005-09-22
Alder Springs	GAS	California,U.S.A.	39.6548N 122.7150W	1219	From 1985-04-10
Al-Direh	DRHJ	Jordan	29.3580N 34.9620E	10	
Alefka	ALFC	Cyprus	35.1560N 32.5990E	520	From 1998-11-16
Alegheny College	ALLY	Pennsylvania,U.S.A.	41.6492N 80.1448W	390	
Alekseevka, NSO, Russia	ALXA	Novosibirskaya Oblast',Russia	54.9300N 82.5800E	125	From 2012-02-10
Alemaya	ALME	Ethiopia	9.4300N 42.0400E	2133	From 1988-01-01
Alert	ALE	Northwest Territories,Canada	82.5033N 62.3500W	65	From 1961-09-29
Alexander Bay	ALX	New York,U.S.A.	44.3225N 75.9279W	122	From 1976-08-01
Alexander City	AX2AL	Alabama,U.S.A.	32.7772N 86.1300W	213	From 1966-03-24 to 1967-01-16
Alexander City	AX-	Alabama,U.S.A.	32.8356N 86.1764W	183	From 1965-12-03 to 1965-12-13
Alexander City	AX-AL	Alabama,U.S.A.	32.8356N 86.1764W	183	From 1965-12-03 to 1965-12-13
Alexander City	AX2	Alabama,U.S.A.	32.7772N 86.1300W	213	From 1966-03-24 to 1967-01-16
Alexander Place, Bentonia	144A	Mississippi,U.S.A.	32.6304N 90.4226W	78	From 2011-03-22 to 2013-02-01
Alexander Ranch	ARDC	California,U.S.A.	35.4632N 120.9783W	91	
Alexander Valley	GAXM	California,U.S.A.	38.7108N 122.7550W	379	From 1973-09-21
Alexandra	AXZ	South Island,New Zealand	45.2656S 169.3313E	260	From 1996-03-07 to 2004-08-31
Alexandria	F34A	Minnesota,U.S.A.	45.7954N 95.2581W	419	From 2010-09-09 to 2012-07-24
Alexandroupolis	ALX2	Greece	40.8455N 25.8738E	35	From 2013-08-20
Alexandroupolis	ALN	Greece	40.8972N 26.0456E	110	From 1989-06-01
Alfacar	ALCS	Spain	37.2542N 3.5439W		From 1982-02-01 to 1982-03-01
Alfacar	AFC	Spain	37.2544N 3.5450W	1490	
Al Faqa, Dubai	FAQ	United Arab Emirates	24.7453N 55.5924E	203	From 2006-05-30
Al Fayyum	FYM	Egypt	29.6923N 31.0430E	210	
Alfred	ALFO	Ontario,Canada	45.6283N 74.8842W	0	From 2009-05-29
Alfred	AFO2	Ontario,Canada	45.6308N 74.8540W	53	
Alfred	ALF	New York,U.S.A.	42.2253N 77.7972W	671	From 1971-01-01 to 1978-09-30
Alfred	AFO1	Ontario,Canada	45.6282N 74.8824W	53	
Alftagrof	IALF	Iceland	63.4910N 19.1844W	132	From 2011-01-11
ALG	MOLA	Algeria	34.6300N 0.0100E	1039	
Algarobillo	CHP4	Peru	4.5019S 80.3600W	220	
Alger-Bouzareah	ABA	Algeria	36.8017N 3.0350E	345	From 1910-01-01
Al Ghardaqah	HHRG	Egypt	27.2193N 33.5691E	400	
Algiers University	ALG	Algeria	36.7717N 3.0583E	59	From 1949-01-01 to 1982-12-31
Algodonales	EXAO	Spain	36.8820N 5.4040W	370	From 2007-09-17
Algonquin Park	ALGO	Ontario,Canada	45.9544N 78.0509W	235	From 2009-04-27
Alhama Almeria	EXAA	Spain	36.9580N 2.5680W	528	
Alhama de Murcia	EALH	Spain	37.8581N 1.4197W	294	From 1986-01-01
Alhama Granada	EXAG	Spain	37.0160N 3.9860W	900	
Al Hawiyah	HWYS	Saudi Arabia	21.4349N 40.4177E		
Alia	ALJA	Italy	37.7490N 13.7537E	700	From 2008-02-14
Aliabad	ALIA	Iran	36.7000N 54.5000E	0	
Alibeck	GEYT	Turkmenistan	37.9295N 58.1171E	610	From 2009-12-16
ALIBECK ARRAY SITE A0	GYA0	Turkmenistan	37.9295N 58.1171E	593	From 2010-02-07
ALIBECK ARRAY SITE A0B	GYA0B	Turkmenistan	37.9295N 58.1171E	591	From 2010-02-07
ALIBECK ARRAY SITE A1	GYA1	Turkmenistan	37.9232N 58.1173E	606	From 2010-02-07
ALIBECK ARRAY SITE A2	GYA2	Turkmenistan	37.9355N 58.1213E	518	From 2010-02-07
ALIBECK ARRAY SITE A3	GYA3	Turkmenistan	37.9331N 58.1131E	609	From 2010-02-07
ALIBECK ARRAY SITE B1	GYB1	Turkmenistan	37.9205N 58.1259E	626	From 2010-02-07
ALIBECK ARRAY SITE B2	GYB2	Turkmenistan	37.9376N 58.1269E	551	From 2010-02-07
ALIBECK ARRAY SITE B3	GYB3	Turkmenistan	37.9430N 58.1158E	540	From 2010-02-07
ALIBECK ARRAY SITE B4	GYB4	Turkmenistan	37.9332N 58.0980E	584	From 2010-02-07
ALIBECK ARRAY SITE B5	GYB5	Turkmenistan	37.9206N 58.1085E	704	From 2010-02-07
Alicahue	ALH	Aconcagua,Chile	32.3700S 70.7928W	1890	From 1970-08-01
Alicante	EXAI	Spain	38.3550N 0.4870W	35	
Alicante	ALI	Spain	38.3553N 0.4873W	35	
Alice Springs	ASP	Northern Territory,Australia	23.6833S 133.8970E	600	From 1970-12-15 to 1982-02-15
Alice Springs	ASPA	Northern Territory,Australia	23.6669S 133.9010E	555	From 1982-02-17 to 2006-05-29
Alice Springs Array Beam Reference Point	ASAR	Northern Territory,Australia	23.6664S 133.9040E	607	
Alice Springs Array Site 1	AS01	Northern Territory,Australia	23.6647S 133.9510E	605	From 1986-01-01
Alice Springs Array Site 10	AS10	Northern Territory,Australia	23.6969S 133.9140E	607	From 1986-01-01
Alice Springs Array Site 11	AS11	Northern Territory,Australia	23.6783S 133.8980E	608	From 1986-01-01
Alice Springs Array Site 12	AS12	Northern Territory,Australia	23.6664S 133.9040E	607	From 1986-01-01
Alice Springs Array Site 13	AS13	Northern Territory,Australia	23.6519S 133.8940E	604	From 1986-01-01
Alice Springs Array Site 14	AS14	Northern Territory,Australia	23.6517S 133.9100E	620	From 1986-01-01
Alice Springs Array Site 15	AS15	Northern Territory,Australia	23.6356S 133.9120E	669	From 1986-01-01
Alice Springs Array Site 16	AS16	Northern Territory,Australia	23.6369S 133.9300E	676	From 1986-01-01
Alice Springs Array Site 17	AS17	Northern Territory,Australia	23.6644S 133.9920E	615	From 1986-01-01
Alice Springs Array Site 18	AS18	Northern Territory,Australia	23.6900S 133.9810E	592	From 1986-01-01
Alice Springs Array Site 19	AS19	Northern Territory,Australia	23.7044S 133.9630E	577	From 1986-01-01
Alice Springs Array Site 2	AS02	Northern Territory,Australia	23.6792S 133.9370E	619	From 1986-01-01
Alice Springs Array Site 3	AS03	Northern Territory,Australia	23.6744S 133.9200E	643	From 1986-01-01
Alice Springs Array Site 4	AS04	Northern Territory,Australia	23.6597S 133.9290E	666	From 1986-01-01
Alice Springs Array Site 5	AS05	Northern Territory,Australia	23.6492S 133.9470E	683	From 1986-01-01
Alice Springs Array Site 6	AS06	Northern Territory,Australia	23.6475S 133.9710E	663	From 1986-01-01
Alice Springs Array Site 7	AS07	Northern Territory,Australia	23.6656S 133.9700E	614	From 1986-01-01
Alice Springs Array Site 8	AS08	Northern Territory,Australia	23.6814S 133.9600E	594	From 1986-01-01
Alice Springs Array Site 9	AS09	Northern Territory,Australia	23.6994S 133.9410E	591	From 1986-01-01
Alice Springs Site	AS31	Northern Territory,Australia	23.6651S 133.9053E	627	From 2005-06-20
Alicudi	ACL	Sicily,Italy	38.5331N 14.3556E	140	
Alicudi	IACL	Sicily,Italy	38.5338N 14.3565E	181	From 2007-05-10
Aliki, Aigialia, West Greece	ALIK	Greece	38.2605N 22.1114E	-33	From 2000-04-16
Alishan	ALS	Taiwan region	23.5104N 120.8050E	2413	
Al Jahlan	JHLN	Syria	35.6725N 38.4411E	459	From 1995-04-01
Aljibe	ALJ	Spain	36.5299N 5.6494W	427	
Al Khamasin	KAMS	Saudi Arabia	20.3088N 44.5811E	325	
Al Kharijah	AKRG	Egypt	25.5032N 30.4985E	155	
Alki Wastewater Plant ANSS-SMO	ALKI	Washington,U.S.A.	47.5751N 122.4176W	1	From 2004-11-04
Alkurruntz	EALK	Spain	43.2197N 1.5071W	965	From 2003-07-30
All	MALI	Sicily,Italy	38.0530N 15.4000E	1005	From 1993-12-01
Alla	ALL	Buryatiya,Russia	54.7000N 110.7667E		
Alla	ALLA	Buryatiya,Russia	54.7000N 110.7667E		
Allagash	AGM	Maine,U.S.A.	47.0817N 69.0233W	238	From 1975-11-01 to 1999-01-31
Allahabad	ALBI	Uttar Pradesh,India	25.3090N 81.8085E	107	
Allapoint, Allagash	D62A	Maine,U.S.A.	47.0819N 69.0501W	189	From 2013-10-08
Allard Ranch, Norris	J28A	South Dakota,U.S.A.	43.4239N 101.2359W	835	From 2009-06-02 to 2011-05-05
Allegan	ACM	Michigan,U.S.A.	42.6475N 85.8517W	268	
Allendale	XAL	England,United Kingdom	54.8617N 2.2147W	462	From 1983-07-10
Allendale	NADM	California,U.S.A.	38.4599N 121.9704W	38	
Allen Road	ALRZ	North Island,New Zealand	38.5620S 176.3430E	405	From 2007-11-07
Allentown	O61A	New Jersey,U.S.A.	40.0934N 74.5530W	38	From 2013-05-29
Allentown	ATPA	Pennsylvania,U.S.A.	40.5767N 75.5886W	61	
Alliance	AI-NB	Nebraska,U.S.A.	42.1328N 103.2764W	1311	From 1962-11-07 to 1962-12-12
Alliance	AI-	Nebraska,U.S.A.	42.1328N 103.2764W	1311	From 1962-11-07 to 1962-12-12
Al Lith	LITH	Saudi Arabia	20.7161N 40.6161E	100	
Al Lith	LTHS	Saudi Arabia	20.2757N 40.4111E	121	
Allumiere - RM	TO02	Italy	42.1378N 11.8886E	410	From 2008-04-11 to 2009-04-02
Alma-Ata	AAA	Kazakhstan	43.2090N 76.9150E	920	From 1927-08-04
Alma-Ata	AA1	Kazakhstan	43.2717N 76.9467E	800	
Almaden	AMC	California,U.S.A.	37.1583N 121.8470W	244	From 1968-10-16
Almaden	JALM	California,U.S.A.	37.1583N 121.8470W	244	From 1968-10-16
Al Majma'ah	MJMA	Saudi Arabia	25.8550N 45.2890E	650	From 1990-03-01
Al Marj	MARJ	Libya	32.5818N 20.8757E	408	
Almaty	KNDC	Kazakhstan	43.2172N 76.9658E	900	From 2005-11-28
Almayashu	AML	Kyrgyzstan	42.1311N 73.6941E	3400	
Al-Mazaregh	MZRK	Syria	35.8266N 40.6525E	373	From 2002-04-01
Almeirim	AMRP	Portugal	39.1583N 8.5750W	160	From 1990-02-01 to 2009-05-30
Almeirim	ALMR	Portugal	39.1555N 8.5768W	165	
Almeria	EXAM	Spain	36.8520N 2.4590W	65	
Almeria	ALM	Spain	36.8525N 2.4598W	65	
ALMNKUR	MNKR	Syria	35.9425N 39.2708E	376	From 2002-04-01
Al Mukalla	MUKL	Yemen	14.4760N 49.0360E	41	
Al Mukha	MUKH	Yemen	13.3150N 43.2653E	0	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Al-Naaiem	NAY	Kuwait	29.2489N	47.2421E	218	
Alonissos	ALNA	Greece	39.1477N	23.8667E	51	From 2010-09-08
Alonnisos	AOS	Greece	39.1703N	23.8800E	200	From 1996-07-11
Alotau	ALTO	Papua New Guinea	10.2988S	150.4556E	158	From 2013-05-01
Alotau	ALOT	Papua New Guinea	10.2960S	150.4640E	200	From 1982-11-08 to 1984-02-03
Alotau	ALOA	Papua New Guinea	10.2983S	150.3770E	10	From 1984-02-03
ALPA Array Beam Reference Point	ALAR	Alaska,U.S.A.	65.0653N	147.5639W	626	
ALPA Array Site 31	AL31	Alaska,U.S.A.	65.0653N	147.5639W	626	
ALPA Array Site 32	AL32	Alaska,U.S.A.	65.1944N	147.3161W		
ALPA Array Site 33	AL33	Alaska,U.S.A.	65.0286N	147.1961W		
ALPA Array Site 35	AL5	Alaska,U.S.A.	64.9447N	147.8595W		From 1993-07-01
ALPA Array Site 36	AL36	Alaska,U.S.A.	65.0978N	148.0014W		
ALPA Array Site 37	AL37	Alaska,U.S.A.	65.2333N	147.7433W		
Alpe Faloria	AFL	Italy	46.5300N	12.1800E	2235	
Alpha Peak	APW	Washington,U.S.A.	46.6517N	122.6470W	457	
Alpine	ALPW	Wyoming,U.S.A.	43.1506N	110.9980W	1792	From 1986-01-01
Alpnach	APL	Switzerland	46.9496N	8.2428E	880	From 1992-12-01 to 2004-08-05
Al-Qirein	QRNJ	Jordan	32.3350N	35.5750E	-180	
Alquife, Granada	E015	Spain	37.1743N	3.1115W	1316	From 2007-06-27 to 2009-06-25
Al-Qurain	QRN	Kuwait	28.7444N	47.9177E	135	
Al-Radifah	RDF	Kuwait	28.9259N	47.5497E	180	
Al Salmeh	SLMH	Syria	36.2139N	37.9278E	510	From 1995-04-01
Al Shahba	SHBJ	Jordan	32.3025N	37.8280E	960	From 1987-10-24
Al Sharaya	SHRA	Saudi Arabia	21.4789N	39.9681E	413	From 1995-01-01
Al Sooda	SODA	Saudi Arabia	18.2900N	42.3740E	2600	From 1989-06-06
Alsterbro	ATR	Sweden	56.9950N	15.9180E	119	From 1980-01-01
Alston	ALST	Oregon,U.S.A.	46.1090N	123.0329W	198	
Alta	AAU	Utah,U.S.A.	40.5919N	111.6380W	2694	From 1974-11-01 to 1976-04-30
Altamira	ATB	Para,Brazil	3.2878S	52.2250W		
Altamura	AMUR	Italy	40.9071N	16.6041E	443	From 2005-08-03
Alta Sierra Campground	WASM	California,U.S.A.	35.7382N	118.5570W	1871	
Alta Urco	ALTA	Ecuador	2.4737S	78.9893W	2700	From 1996-03-05
Altdorf, Kantonsspital	SALTS	Switzerland	46.8821N	8.6383E	450	From 2012-10-01
Alteburg	ABH	Rheinland-Pfalz,Germany	49.8817N	7.5475E	618	From 1993-01-01
Alter Ridge	ALD	Washington,U.S.A.	45.8194N	120.0670W	427	From 1975-11-01
Altiaghaj	ATGJ	Azerbaijan	40.8610N	48.9380E	1133	From 2009-09-07
Altintas	ALT	Turkey	39.0552N	30.1103E	1060	From 1973-06-27
Altinyayla-SIVAS	CUALT	Turkey	39.2733N	36.7583E	1482	From 2010-07-06
Altmuhljura-Amtmannsdorf	ALTM	Bayern,Germany	48.9950N	11.5200E	430	From 2003-01-01
Alto Anchicaya	ANCC	Colombia	3.5153N	76.8667W	540	
Alto Bandera	DR10	Dominican Republic	18.8082N	70.6878W	2470	
Alto Boquete	APOP	Panama	8.7200N	82.5330W	1429	
Alto Masis	AMAS	Costa Rica	10.6115N	84.9930W	979	From 2000-01-01
Altona	ATO	Oklahoma,U.S.A.	35.7922N	98.1195W	364	From 1982-11-11
Altoona	AS-PA	Pennsylvania,U.S.A.	40.7331N	78.5239W	469	
Altos	ACH	Panama	8.6635N	79.9292W	900	
Alturitas	ALTV	Venezuela	9.7516N	72.4178W		
Altzomoni	IIA	Mexico D.F.,Mexico	19.1495N	98.6583W		
Al 'Udayn	UDYN	Yemen	13.9670N	43.9670E	1370	From 1994-11-01
Al Uja	UJAP	Palestine Territories	31.9520N	35.4644E	-192	From 2012-06-13
Alum Ck. St. Park	ACOH	Ohio,U.S.A.	40.2318N	82.9833W		
Alum Creek State Park	ACSO	Ohio,U.S.A.	40.2319N	82.9820W	288	From 2000-05-14
Alushta	ALU	Ukraine	44.6820N	34.4030E	61	
Al'Uyaynah	AYN	Saudi Arabia	28.8660N	36.0010E	770	From 1986-01-01
Alvares	PCAL	Portugal	40.0309N	8.0718W	454	From 2010-01-01
Alvey	ALVY	Oregon,U.S.A.	43.9981N	123.0158W	155	
Alvord Mountain	ALV	California,U.S.A.	35.0617N	116.6289W	640	
Al Wahab	WHAB	Syria	35.9171N	37.5520E	630	From 1995-04-01
Al Wajh	WAJH	Saudi Arabia	26.1760N	36.5600E	75	From 1988-06-20
Alzada	G24A	Montana,U.S.A.	45.3280N	104.4163W	1147	From 2008-11-25 to 2010-08-15
Al Zarqa	HSUJ	Jordan	32.1050N	36.1930E	613	From 2010-01-01
Amaminishikomi	JAMN	Ryukyu Islands,Japan	28.2430N	129.1750E	10	From 2009-03-01
Amami Oshima	JAM	Ryukyu Islands,Japan	28.4113N	129.6052E	15	
Amanu	AMN	Tuamotu,French Polynesia	17.8506S	140.8590W	2	From 1976-01-01
Amara	AMRR	Romania	44.6103N	27.3354E	67	
Amargosa	AMDNV	Nevada,U.S.A.	36.4526N	116.2809W	0	
Amargosa	AMR	California,U.S.A.	36.3975N	116.4745W	725	From 1978-07-24 to 2002-12-10
Amarillo	AZ-TX	Texas,U.S.A.	35.4300N	101.9306W	988	From 1963-08-28 to 1964-03-06
Amarillo	W29A	Texas,U.S.A.	35.1212N	101.6476W	1072	From 2009-01-21 to 2010-11-14
Amarillo	AZ-	Texas,U.S.A.	35.4300N	101.9306W	988	From 1963-08-28 to 1964-03-06
Amarillo	AMTX	Texas,U.S.A.	34.8837N	101.6808W	1010	From 2004-09-30
Amasra-Bartin	MASR	Turkey	41.7599N	32.4691E	330	From 2011-02-22
Amasugawa 1	AM1	Shiga,Japan	35.4444N	135.9186E	250	
Amasugawa 2	AM2	Shiga,Japan	35.4441N	135.9215E	180	
Amasya-Merkez	AMSY	Turkey	40.6370N	35.8347E	950	From 2013-05-30
Amatignak Island	AMA	Alaska,U.S.A.	51.2884N	179.1090W	503	From 1970-10-09 to 1973-04-30
Amatzia	AMAZ	Israel	31.5325N	34.9154E	396	From 2005-12-05
Amatzia	AMZI	Israel	31.4590N	34.9125E	151	
Ambar	AMP	Pakistan	34.0550N	72.4150E	361	From 1973-08-23 to 2009-09-20
Ambar	AMB1	Pakistan	34.0540N	72.4150E	320	From 2009-09-20
Ambato 1 (Municipio)	AAM1	Ecuador	1.2419S	78.6297W	2836	From 2011-12-17
Ambato 2 (Mercado Amˆ'rica)	AAM2	Ecuador	1.2691S	78.6109W	2664	From 2011-03-12
Ambatonomby	OBY	Madagascar	19.3680S	47.4570E	1625	
Amberd	AMBZ	Armenia	40.3880N	44.2590E	2200	
Amberson	O57A	Pennsylvania,U.S.A.	40.2104N	77.6354W	377	From 2013-05-22
Ambohiby	ATG	Madagascar	18.8790S	46.1880E	1520	From 1994-06-16
Ambohidratompo	OPO	Madagascar	18.5706S	47.1879E	1463	From 1978-11-17
Ambohimiarambe	ABM	Madagascar	19.7810S	47.3650E	1843	From 1982-03-23
Ambohimpanom	ABPO	Madagascar	19.0174S	47.2275E	1528	
Ambon	AAI	Ambon,Indonesia	3.6870S	128.1945E	80	From 1975-01-01
Ambon	AMO	Ambon,Indonesia	3.7000S	128.1670E		
Amboy	F04A	Washington,U.S.A.	45.9325N	122.4193W	211	From 2005-10-25 to 2008-10-27
Amboy	AB-	West Virginia,U.S.A.	39.3306N	79.5669W	914	
Amboy	AB-WV	West Virginia,U.S.A.	39.3306N	79.5669W	914	
Ambrˆ‡zfalva	AMBH	Hungary	46.3501N	20.7258E	95	From 2013-03-07
Ambulong	AMB	Luzon,Philippines	14.0833N	121.0500E	10	From 1910-01-01 to 1999-08-25
Amchitka	AMC*	Alaska,U.S.A.	51.4097N	179.2922E	0	From 1965-01-01 to 1966-01-01
Amchitka	AEB	Alaska,U.S.A.	51.3604N	179.2470E		
Amchitka	AC-IS	Alaska,U.S.A.	51.3894N	179.3425E	61	
Amchitka	ANB	Alaska,U.S.A.	51.6062N	178.7920E		From 1970-10-14 to 1971-04-30
Amchitka	AMKA	Alaska,U.S.A.	51.3783N	179.3019E	115	
Amchitka	AND	Alaska,U.S.A.	51.5623N	178.9530E	186	From 1970-07-18 to 1973-04-30
Amchitka	ANA	Alaska,U.S.A.	51.6277N	178.6560E		From 1969-08-25 to 1973-04-30
Amchitka	ASB	Alaska,U.S.A.	51.3604N	179.2470E		From 1969-05-25 to 1973-04-30
Amchitka	ASC	Alaska,U.S.A.	51.4631N	179.1580E		From 1969-07-28 to 1972-12-11
Amchitka	ASD	Alaska,U.S.A.	51.3907N	179.3420E		From 1969-05-29 to 1973-04-30
Amchitka	AWA	Alaska,U.S.A.	51.3746N	179.2530E		
Amchitka Central A	ACA	Alaska,U.S.A.	51.4809N	179.1190E	42	From 1971-05-08 to 1972-12-11
Amchitka Central B	ACB	Alaska,U.S.A.	51.4626N	179.0910E	47	From 1971-05-08 to 1972-06-30
Amchitka Central C	ACC	Alaska,U.S.A.	51.4843N	179.0430E	26	From 1971-05-08 to 1972-06-30
Amchitka Central D	ACD	Alaska,U.S.A.	51.4282N	179.1370E	37	From 1971-05-08 to 1972-06-30
Amchitka Central E	ACE	Alaska,U.S.A.	51.4005N	179.1730E	9	From 1971-05-08 to 1972-06-30
Amchitka Central F	ACF	Alaska,U.S.A.	51.5258N	178.9940E	62	From 1971-05-08 to 1972-06-30
Amchitka East	AME	Alaska,U.S.A.	51.3867N	179.2550E		
Amderma	AMDE	Arkhangel'skaya Oblast',Russia	69.7607N	61.6782E	48	From 2010-11-28
Amderma	AMD	Arkhangel'skaya Oblast',Russia	69.7667N	61.6833E		
AMECAMECA	AMVM	Mexico	19.1318N	98.7858W	2458	From 2009-08-18
Amedichi	ACHS	Sakha,Russia	57.0300N	122.8500E	930	From 1989-05-01 to 1989-08-31
Amelia	AMI	Italy	42.5851N	12.4286E		
Amelia	AM9	Italy	42.5851N	12.4286E		From 1980-06-01 to 1980-07-01
American Fork	AMF	Utah,U.S.A.	40.4020N	111.7880W	1445	
Americas 2	WILN	Nicaragua	12.1607N	86.1875W	20	
Americus	AMG	Georgia,U.S.A.	32.0594N	84.2177W	106	From 1973-09-01
Americus	253A	Georgia,U.S.A.	32.0612N	84.1294W	136	From 2012-03-10
Amite	445A	Louisiana,U.S.A.	30.7303N	90.3380W	51	From 2011-03-10 to 2012-12-08
Ammassalik, Greenland	ANGG	Greenland	65.6160N	37.6370W	0	From 2000-02-03
Amo	AMJ	Gifu,Japan	36.2494N	137.0280E	620	From 1975-08-05
Amorgos	AMOR	Greece	36.9898N	25.9863E	240	
Amorgos Island	AMGA	Greece	36.8316N	25.8938E	343	From 2012-05-31

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Amos	AMS	California,U.S.A.	33.1413N	115.2540W	140	From 1973-04-16 to 2008-02-22
Ampana	APSI	Sulawesi,Indonesia	0.9108S	121.6487E	0	From 2007-12-01
Amsterdam Island	AIS	Amsterdam Island,France	37.7966S	77.5694E	36	
Anacapa Island	AIC	California,U.S.A.	34.0133N	119.4370W	113	From 1973-02-23
Anaconda	AMM	Montana,U.S.A.	46.0942N	112.9510W	2051	
Anadia - AL	NBAN	Alagoas,Brazil	9.6686S	36.2746W	260	From 2011-08-31
Anadyr'	ANDR	Magadanskaya Oblast',Russia	64.7340N	177.4950E	55	
Anadyr, Chukotka	ANDR2	Magadanskaya Oblast',Russia	64.7186N	177.7404E	55	From 2005-12-26
Anadyr, Chukotka	ANSS	Magadanskaya Oblast',Russia	64.7830N	177.5830E	20	From 1980-11-10 to 1993-01-01
Anafi Island	ANAF	Greece	36.3567N	25.7726E	335	From 2012-03-07
Anaheim Lake	ALRB	British Columbia,Canada	52.5103N	125.0844W	1237	From 2006-08-30
Anamosa	L40A	Iowa,U.S.A.	42.0628N	91.2218W	242	From 2011-06-20 to 2013-11-27
Anan'yevo	ANVS	Kyrgyzstan	42.7830N	77.6670E	1860	
Anapa	ANN	Krasnodarskiy Kray,Russia	44.8000N	37.4330E	35	
Anarak	ANAR	Iran	33.1897N	53.7288E	1322	From 2011-04-01
Anatahan	ANA2	Mariana Islands	16.3412N	145.7115E	314	
Anatahan	ANAT	Mariana Islands	16.3530N	145.6560E	510	
Anatahan S. Rim	AFOK	Mariana Islands	16.3416N	145.6746E	418	
Ana Tenorio	PIAT	Ecuador	0.9971S	78.2616W	3021	From 2012-06-15
Anchorage	ANI*	Alaska,U.S.A.	61.2417N	149.8270W		From 1964-03-30 to 1964-06-27
Anchorage	AMU	Alaska,U.S.A.	61.1917N	149.8050W	53	From 1965-02-01 to 1975-12-05
Anchorage	ANH	Alaska,U.S.A.	61.2417N	149.8267W	30	From 1964-03-30 to 1964-06-27
Anchorite	ANCR	Nevada,U.S.A.	38.1732N	118.7537W	2250	
Ancon	PP10	Peru	11.7723S	77.1432W	56	
Ancona	ANS	Italy	43.5522N	13.4622E	295	From 1973-01-01
Ancona	AOI	Italy	43.5500N	13.6020E	530	
Andalgala	ANL	Catamarca,Argentina	27.6167S	66.3167W		
Andarivi	COLL	Bolivia	16.9221S	68.3147W	4329	From 1994-05-30 to 1995-01-14
Anderson	ANTN	Tennessee,U.S.A.	36.1717N	85.2313W	612	
Anderson Farm, Haxtun	N27A	Colorado,U.S.A.	40.8063N	102.5367W	1228	From 2008-12-04 to 2010-10-12
Anderson Peak	BAPM	California,U.S.A.	36.1758N	121.6430W	1219	
Anderson Ranch, Garber	U34A	Oklahoma,U.S.A.	36.4365N	97.5354W	345	From 2009-10-23 to 2011-09-02
Anderson Ranch, Keeline	K24A	Wyoming,U.S.A.	42.7225N	104.8152W	1593	From 2008-10-24 to 2010-09-10
Anderson Res.	CADM	California,U.S.A.	37.1638N	121.6258W		From 1967-08-25
Anderson Reservoir	ADR	California,U.S.A.	37.1638N	121.6258W	207	From 1967-08-25
Andimeshk	IAND	Iran	32.4250N	48.3556E	0	From 1998-01-01
Andirin	ANDN	Turkey	37.5800N	36.3452E	1142	From 2006-11-06
Andizhan	ANR	Uzbekistan	40.7550N	72.3600E	494	
Andong	KSADO	Republic of Korea	36.4121N	128.9488E	0	From 2007-12-26
Andong	KSAND	Republic of Korea	36.5687N	128.7057E	139	From 1999-04-16
Andorre	PAND	Andorra	42.5225N	1.5467E	1857	From 1991-10-25
Andretta	AND3	Italy	40.9298N	15.3331E	905	
Andrews Acres Farm, Gillet	L57A	Pennsylvania,U.S.A.	42.0005N	76.8492W	546	From 2013-08-29
Anegada	ABV	Virgin Islands	18.7298N	64.3320W	35	From 2004-06-01
Anegada Island	ABVI	Puerto Rico	18.7297N	64.3325W	8	
Anensky vrch	ANAC	Czech Republic	50.0745N	17.3790E	851	From 2001-02-01
Angavokely	AVY	Madagascar	18.9279S	47.7376E	1807	From 1973-01-01
Angela	AN-MA	Montana,U.S.A.	46.7522N	106.0917W	907	From 1964-11-16 to 1965-06-11
Angela	AN-	Montana,U.S.A.	46.7522N	106.0917W	907	From 1964-11-16 to 1965-06-11
Angel Island	CAIM	California,U.S.A.	37.8613N	122.4300W	223	From 1969-08-08
Angel Island	AGC	California,U.S.A.	37.8613N	122.4300W	223	From 1969-08-08
Angel Island	LT13	California,U.S.A.	37.8613N	122.4300W	223	From 1969-08-08
Angel's Peak	APK	Nevada,U.S.A.	36.3194N	115.5740W	2680	From 1975-06-15 to 1983-09-06
Angels Peak	APKW	Nevada,U.S.A.	36.3198N	115.5868W	2580	From 1983-09-06 to 2002-10-10
Angle Creek	ANCK	Alaska,U.S.A.	58.1988N	155.4940W	869	From 1996-08-01
Angle Creek Headwaters	ACHA	Alaska,U.S.A.	58.2107N	155.3260W	960	From 1996-08-01
Angle Mountain	ANGW	Wyoming,U.S.A.	43.8318N	110.1900W	2743	From 1990-09-01
Angol	AGCH	Maule,Chile	37.8093S	72.6964W	81	From 2005-12-20
Angol	ANGC	Malleco,Chile	37.7833S	72.7083W	70	From 1988-01-01
Angono	ARP	Luzon,Philippines	14.5380N	121.1530E	85	
Angora Road	ANWZ	North Island,New Zealand	40.4597S	176.4751E	132	From 2008-08-07
Angostura	ANGV	Venezuela	9.7050N	69.5217W	680	From 1984-01-01 to 1999-08-25
Angra dos Reis-Rio de Janeiro-Brazil	ESAR	Rio de Janeiro,Brazil	23.0207S	44.4403W	5	From 2006-09-03
Angra dos Reis-RJ	MAN01	Rio de Janeiro,Brazil	22.8652S	43.9641W	617	From 2011-01-30
Angra Heroismo	ADH	Azores,Portugal	38.6550N	27.2350W	83	
Angra Heroismo	ADH0	Azores,Portugal	38.6633N	27.2066W	100	From 1988-12-12 to 2000-05-17
Angren	ANE	Uzbekistan	41.0100N	70.2600E	951	
Angureal	ANGU	Ecuador	0.0468N	78.0083W	4680	From 2005-09-20
Aniakchak	ANKA	Alaska,U.S.A.	56.9058N	158.2290W	863	From 1994-08-01
Aniakchak	ANI	Alaska,U.S.A.	57.0417N	158.0400W	0	
Aniakchak	ANON	Alaska,U.S.A.	56.9198N	158.1716W	445	
Aniakchak	AZAC	Alaska,U.S.A.	56.8954N	158.2307W	1057	
Aniakchak Crater	ANIA	Alaska,U.S.A.	56.9056N	158.2293W	930	
Aniakchak Jack	AJAX	Alaska,U.S.A.	56.8895N	158.2215W	967	
Aniakchak Northeast	ANNE	Alaska,U.S.A.	56.9127N	158.0589W	705	
Aniakchak Northwest	ANNW	Alaska,U.S.A.	56.9664N	158.2149W	816	
Aniakchak Peak	ANPK	Alaska,U.S.A.	56.8418N	158.1261W	972	
Aniakchak Plenty Bear	ANPB	Alaska,U.S.A.	56.8024N	158.2808W	658	
Anillaco	AANI	La Rioja,Argentina	28.8123S	66.9375W	1400	
Anini-y	AAP	Panay,Philippines	10.4200N	121.9440E	50	
Anjarah	ANJJ	Jordan	32.3010N	35.7710E	1075	
Anjero-Sudjensk, Russia	ASR1	Kemerovskaya Oblast',Russia	56.0680N	85.9910E	262	From 2011-02-22
Anjilo	IANJ	Iran	35.4672N	53.9144E	2135	From 1999-05-01
Ankara	DAD	Turkey	39.9082N	32.7536E	875	From 2007-12-27 to 2012-12-02
Ankara	ANK	Turkey	39.9167N	32.8167E		
Ankara	ANTO	Turkey	39.8689N	32.7936E	883	From 1978-08-01
Anmore	ANMB	British Columbia,Canada	49.3187N	122.8585W	179	
Anmyeondo	KSANM	Republic of Korea	36.5000N	126.3000E	47	From 2002-11-07
Anna	AN1	Ohio,U.S.A.	40.4792N	84.1308W	323	From 1976-01-15 to 1999-08-25
Anna	AN8	Ohio,U.S.A.	40.2444N	84.2864W	302	
Anna	AN10	Ohio,U.S.A.	40.4728N	84.4700W	297	
Anna	AN12	Ohio,U.S.A.	40.9214N	84.1822W	226	
Anna	AN11	Ohio,U.S.A.	40.5639N	84.6803W	267	
Anna	AN3	Ohio,U.S.A.	40.5486N	83.8122W	326	
Anna	AN4	Ohio,U.S.A.	40.2219N	83.8978W	346	
Anna	AN7	Ohio,U.S.A.	40.8233N	83.8600W	281	
Anna	AN9	Ohio,U.S.A.	40.7111N	84.4969W	255	
Ann Arbor	AAM	Michigan,U.S.A.	42.3012N	83.6567W	172	From 1940-01-01
An Nimas	NAMS	Saudi Arabia	19.1702N	42.2021E	2328	
Anninata	KFL	Greece	38.1096N	20.7880E	264	From 2006-09-30
AnnSam, Waubun	D33A	Minnesota,U.S.A.	47.1404N	95.8448W	466	From 2010-08-28 to 2012-06-22
Annsville	ANNS	New York,U.S.A.	41.3140N	73.9132W	42	
Ano Chora	ANX	Greece	38.5933N	21.9209E	1019	From 2010-11-25
Anoyia	IDI	Crete,Greece	35.2880N	24.8900E	750	
Anpu	ANP	Taiwan region	25.1865N	121.5200E	826	From 1963-03-14
Anshas	MANS	Egypt	30.9560N	31.5180E	45	
Anshas	AANS	Egypt	30.2909N	31.3998E	30	
Anshuo	EAST	Taiwan region	22.3830N	120.8480E	445	
Antalya	ANTB	Turkey	36.8998N	30.6538E	20	From 2004-03-12
Antalya-Kepez	KEPZ	Turkey	36.9015N	31.6039E	615	From 2010-11-12
Antalya-Kumluca	AKUM	Turkey	36.3226N	30.3430E	69	From 2013-02-23
ANTANANARIVO INFRASONIC ARRAY REFERENCE POINT	IESMG	Madagascar	19.0109S	47.3050E	1385	From 2001-10-15
Antelope	ALPC	California,U.S.A.	34.6871N	118.2995W	753	
Antelope Grade	PAGM	California,U.S.A.	35.7325N	120.2504W	436	
Antelope Grade	PAGB	California,U.S.A.	35.7307N	120.2499W	480	
Antelope Island	ANU	Utah,U.S.A.	41.0397N	112.2320W	1353	From 1975-11-01 to 1991-08-27
Antelope Mountain	LAMM	California,U.S.A.	41.6098N	122.6256W	1769	
Antelope Range	ARUT	Utah,U.S.A.	37.7880N	113.4400W	1646	From 1980-12-01
Antelope Range	ANTCA	California,U.S.A.	37.9177N	118.5650W	2040	
Antelope Ridge	ANTR	New Mexico,U.S.A.	32.2637N	103.4110W	1056	From 1991-01-01
Antelope Valley	BAVM	California,U.S.A.	36.6459N	121.0301W	572	From 1975-07-02
Antenna a Mare	ME06	Italy	38.1595N	15.4647E	1134	From 2007-11-15 to 2008-04-15
Antennamare	ATN	Sicily,Italy	38.1595N	15.4647E	1130	
Antibes	ANTF	Provence-Cote d'Azur,France	43.5640N	7.1230E	54	From 2003-01-06
Anticline Ridge	PARM	California,U.S.A.	36.2492N	120.3420W	485	From 1975-09-05
Antigo	G41A	Wisconsin,U.S.A.	45.2118N	89.1816W	464	From 2011-08-20 to 2013-06-13
Antigua	ANG	Antigua,Antigua and Barbuda	17.1550N	61.8300W	27	From 1966-04-20
Antigua	AWI	Antigua,Antigua and Barbuda	17.1430N	61.8350W	23	From 1955-06-24 to 1963-10-06
Antikythira Island	ANKY	Greece	35.8670N	23.3012E	143	From 2008-07-23

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Antillo	AIO	Sicily,Italy	37.9712N 15.2330E	751	
Antioch	CACM	California,U.S.A.	36.9762N 121.7600W	74	From 1973-10-26
Antioch Church	ACTN	Tennessee,U.S.A.	36.3470N 89.3100W	143	
Antisana	ANTI	Ecuador	0.4492S 78.1612W	4510	From 1991-08-09
Antisana-Cuyuja	ANTC	Ecuador	0.0265S 78.4104W	2481	From 2012-07-12
Antisana-Guamanˆ›	ANTG	Ecuador	0.5031S 78.2546W	4210	From 2011-10-14
Antisana-La Mica	ANTM	Ecuador	0.5362S 78.2228W	4128	From 2011-11-24
Antisana-Sarahuasi	ANTS	Ecuador	0.4973S 78.1704W	4580	From 2011-11-25
Antlers	AL-OK	Oklahoma,U.S.A.	34.3581N 95.6125W	213	From 1962-07-04 to 1962-07-11
Antlers	AL-	Oklahoma,U.S.A.	34.3581N 95.6125W	213	From 1962-07-04 to 1962-07-11
Antofagasta	ANCH	Antofagasta,Chile	23.6803S 70.4085W	30	
Antofagasta	ANT	Antofagasta,Chile	23.7050S 70.4153W	80	From 1962-12-28
Antrodoco	LANT	Italy	42.4163N 13.0814E	484	From 2001-05-05
Antumapu	ANTU	Santiago,Chile	33.5691S 70.6335W	640	
Anvil Mountain	ANV	Alaska,U.S.A.	64.5655N 165.3720W	330	From 1976-08-01
Anzar Reservoir 9	AN9*	California,U.S.A.	37.0140N 122.0362W	129	
Anzar Road	HAZM	California,U.S.A.	36.8847N 121.5910W	122	From 1967-06-29
Anzar Road	ANZ	California,U.S.A.	36.8847N 121.5910W	122	From 1967-06-29
Aoalbol	IADA	Iceland	65.0190N 15.5750W	443	From 1998-09-19
Aobayama	AOB	Miyagi,Japan	38.2483N 140.8470E	87	From 1967-04-01
Aogashimamukaizawa	JAOM	Tokyo,Japan	32.4637N 139.7638E	336	From 2012-07-01
Aomori	AOM	Aomori,Japan	40.8167N 140.7833E	5	
Aomori	AOM1	Aomori,Japan	40.8200N 140.7733E	3	From 1989-12-01
Aomori 2	AOMJ	Aomori,Japan	40.5600N 140.3730E	8	From 1978-01-01
Aomori 3	AOM3	Aomori,Japan	40.7767N 140.8170E	150	From 1990-04-21
Aomorihigashidori	JAHD	Aomori,Japan	41.2653N 141.3373E	50	From 2012-07-01
Aomorirokkasho	JARK	Aomori,Japan	41.0073N 141.3663E	54	From 2012-07-01
Aou	AOU	Kochi,Japan	33.7923N 133.7710E	470	From 1972-04-01
Aouinet Torkoz	ANTZ	Morocco	28.4747N 9.8547W	300	From 1991-12-18
Aoulouz	ALZ	Morocco	30.6960N 8.1410W	800	
Ao Xicun	ZPLA	Taiwan region	23.9300N 117.7500E	0	From 2011-07-22
Apacha	APC	Kamchatskaya Oblast',Russia	52.9250N 157.1581E	100	
Apache	AP-	Oklahoma,U.S.A.	34.8331N 98.4358W	427	
Apache	AP-OK	Oklahoma,U.S.A.	34.8331N 98.4358W	427	
Apache Junction	GVA	Arizona,U.S.A.	33.4214N 111.5748W	506	From 1994-01-05
Apakhonchich	APN	Kamchatskaya Oblast',Russia	56.0000N 160.8300E	700	
Apatity	APZ9	Murmanskaya Oblast',Russia	67.5690N 33.4051E	200	
Apatity	APA	Murmanskaya Oblast',Russia	67.5690N 33.4051E	182	
Apatity Array Beam Reference Point	APAES	Murmanskaya Oblast',Russia	67.6061N 32.9931E	200	
Apatity Array Site A0	APA0	Murmanskaya Oblast',Russia	67.6061N 32.9923E	200	From 1992-09-01
Apatity Array Site A1	APA1	Murmanskaya Oblast',Russia	67.6079N 32.9928E	200	
Apatity Array Site A2	APA2	Murmanskaya Oblast',Russia	67.6054N 32.9965E	200	
Apatity Array Site A3	APA3	Murmanskaya Oblast',Russia	67.6057N 32.9878E	200	
Apatity Array Site B1	APB1	Murmanskaya Oblast',Russia	67.6068N 33.0037E	200	
Apatity Array Site B2	APB2	Murmanskaya Oblast',Russia	67.6024N 32.9979E	200	
Apatity Array Site B3	APB3	Murmanskaya Oblast',Russia	67.6029N 32.9847E	200	
Apatity Array Site B4	APB4	Murmanskaya Oblast',Russia	67.6079N 32.9816E	200	
Apatity Array Site B5	APB5	Murmanskaya Oblast',Russia	67.6106N 32.9934E	200	
Apecchio	APEC	Italy	43.5585N 12.4199E	488	From 2014-02-06
Apeiranthos	APE	Greece	37.0689N 25.5306E	620	From 1975-11-01
Aper	APER	Greece	35.5504N 27.1741E	250	
Apex site 3 Nunavut	AP3N	Northwest Territories,Canada	69.4586N 84.4616W	437	From 2005-08-17
Apia	API	Samoa Islands	13.8072S 171.7750W	2	From 1902-01-01
Apoyeque	APYN	Nicaragua	12.2338N 86.3500W	300	
Apoyeque	APY	Nicaragua	12.2277N 86.3528W	260	From 1975-01-01
Apoyo	APON	Nicaragua	11.9167N 86.0667W	600	
Appelbo	APP	Sweden	60.5390N 13.9280E	340	From 1969-01-01
Appiano	APPI	Italy	46.4787N 11.2281E	1056	From 2003-11-12
Appleton	J54A	New York,U.S.A.	43.2728N 78.6392W	112	From 2012-12-11
Apres Vouz Peak	AVOW	Wyoming,U.S.A.	43.6111N 110.8140W	2036	From 1986-01-01
Aqaba	AQBJ	Jordan	29.7280N 35.0500E	170	From 1989-10-23
Aqua Casa	AQ6*	Sicily,Italy	38.4856N 14.9317E		From 1966-04-01 to 1966-05-01
Aqua Vermelha	AGVB	Minas Gerais,Brazil	19.7394S 50.2331W	393	From 1993-03-01
Aquidauana	AQDB	Mato Grosso,Brazil	20.4758S 55.6997W	158	From 2003-07-01
Aquila	MMIG	Michoacan,Mexico	18.2885N 103.3455W	64	From 2006-07-08
Aracena	ARAC	Spain	37.8923N 6.5647W	675	
Aradan	ARDR	Altayskiy Kray,Russia	52.5800N 93.4300E	950	
Arado	A492	Costa Rica	10.2138N 85.5963W	0	From 2000-01-01
Araguaiana, MT - Brazil	ARAG	Mato Grosso,Brazil	15.7060S 51.8121W	237	From 2013-09-30
Arahi	RAHZ	North Island,New Zealand	38.9162S 177.0860E	472	From 2008-05-14
Arakani	ARKR	Dagestan,Russia	42.6028N 46.9944E	750	
Arakawa	K06	Iwate,Japan	39.4181N 141.5464E	363	
Araks	AKSZ	Armenia	40.1910N 43.8850E	1160	
Aral	ARLS	Kyrgyzstan	41.8610N 74.3230E	1640	
Aranda	RNDA	Australian Capital Territory,Australia	35.2580S 149.0820E	666	From 2007-01-01
Arangoiti	YARA	Spain	42.6477N 1.1902W	1303	From 2009-12-11
Aranguren	EARA	Spain	42.7727N 1.5797W	476	From 2005-07-07
Arapaho	V32A	Oklahoma,U.S.A.	35.7202N 99.0437W	533	From 2009-10-29 to 2011-09-01
Arapgir-MALATYA	ARPR	Turkey	39.0929N 38.3356E	1522	From 2013-09-06
Arapuni	ARA	North Island,New Zealand	38.0715S 175.6435E	65	From 1930-07-01 to 1972-10-31
Araqi	ARQ	Oman	23.3366N 56.5219E	400	From 2001-07-01
Ararat	ARRZ	Armenia	39.8540N 44.6970E	850	
'Arava Valley	ARVI	Israel	30.6400N 35.1870E		
Araxos	AXS	Greece	38.1962N 21.3763E	97	From 2009-05-27
ARAXOS	ARX	Greece	38.1897N 21.4135E	196	From 2006-01-06
Arbavere	ARBE	Estonia	59.4365N 25.9841E	71	From 2011-01-20
Arbois	ARBF	Provence-Cote d'Azur,France	43.4917N 5.3325E	185	From 1998-11-01
Arbon	K15A	Idaho,U.S.A.	42.6852N 112.5305W	1566	From 2007-07-24 to 2009-05-07
Arbon, Evangelische Kirche, TG	SARE	Switzerland	47.5149N 9.4303E	413	From 2014-12-19
Arbuckle	GARM	California,U.S.A.	38.9552N 122.2520W	268	
Arcadia	058A	Florida,U.S.A.	27.0569N 81.8049W	15	From 2012-03-11
Arcadia Dam	ADOK	Oklahoma,U.S.A.	35.6521N 97.3711W	316	
ARCALIA	ARCR	Romania	47.0855N 24.3537E	385	
Arcata	ARC	California,U.S.A.	40.8777N 124.0774W	30	From 1948-02-27
Arcavacata	ACI	Italy	39.3508N 16.2031E	300	From 1976-05-18
ARCESS Array Beam Reference Point	ARCES	Norway	69.5349N 25.5058E	403	
ARCESS Array Site A0	ARA0	Norway	69.5349N 25.5059E	403	
ARCESS Array Site A1	ARA1	Norway	69.5363N 25.5071E	411	
ARCESS Array Site A2	ARA2	Norway	69.5338N 25.5078E	392	
ARCESS Array Site A3	ARA3	Norway	69.5346N 25.5019E	402	
ARCESS Array Site B1	ARB1	Norway	69.5379N 25.5079E	414	
ARCESS Array Site B2	ARB2	Norway	69.5357N 25.5134E	397	
ARCESS Array Site B3	ARB3	Norway	69.5324N 25.5106E	376	
ARCESS Array Site B4	ARB4	Norway	69.5328N 25.4998E	378	
ARCESS Array Site B5	ARB5	Norway	69.5363N 25.4985E	405	
ARCESS Array Site C1	ARC1	Norway	69.5411N 25.5079E	381	
ARCESS Array Site C2	ARC2	Norway	69.5383N 25.5229E	395	
ARCESS Array Site C3	ARC3	Norway	69.5329N 25.5231E	376	
ARCESS Array Site C4	ARC4	Norway	69.5293N 25.5117E	377	
ARCESS Array Site C5	ARC5	Norway	69.5300N 25.4982E	374	
ARCESS Array Site C6	ARC6	Norway	69.5341N 25.4882E	395	
ARCESS Array Site C7	ARC7	Norway	69.5396N 25.4936E	362	
ARCESS Array Site D1	ARD1	Norway	69.5483N 25.5093E	395	
ARCESS Array Site D2	ARD2	Norway	69.5452N 25.5308E	366	
ARCESS Array Site D3	ARD3	Norway	69.5366N 25.5483E	331	
ARCESS Array Site D4	ARD4	Norway	69.5271N 25.5362E	371	
ARCESS Array Site D5	ARD5	Norway	69.5214N 25.5118E	351	
ARCESS Array Site D6	ARD6	Norway	69.5227N 25.4900E	413	
ARCESS Array Site D7	ARD7	Norway	69.5294N 25.4707E	413	
ARCESS Array Site D8	ARD8	Norway	69.5384N 25.4686E	368	
ARCESS Array Site D9	ARD9	Norway	69.5454N 25.4857E	359	
ARCESS Array Site E0	ARE0	Norway	69.5348N 25.5057E	403	
Arcevia	ARV	Italy	43.4977N 12.9410E	459	From 1983-06-01
Arcevia	ARVD	Italy	43.4981N 12.9415E	461	
Archaia Olimpia	AOL1	Greece	37.6433N 21.6248E	50	From 2010-12-01
Archidona, Tena	ARDO	Ecuador	0.9944S 77.8007W	677	
Archignac	ARH	Aquitaine,France	45.0097N 1.3117E	320	
Arcidosso	ARCI	Italy	42.8519N 11.4754E	1080	From 2005-05-04
Arctowski Station	AAS	South Shetland Islands	62.1600S 58.4625W	15	From 1978-04-01 to 2000-06-29

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Arden House	ARNY	New York,U.S.A.	41.3032N	74.1145W	430	
Ardmore	AM-	Oklahoma,U.S.A.	34.0478N	97.4114W	274	From 1961-12-08 to 1961-12-20
Ardmore	AM-OK	Oklahoma,U.S.A.	34.0478N	97.4114W	274	From 1961-12-08 to 1961-12-20
Ardon	ARNR	Severo-Osetinskaya,Russia	43.1801N	44.2841E	419	From 2001-01-31
Areado	AREB	Brazil	21.3625S	46.1234W	982	
Arecibo	APR	Puerto Rico	18.4422N	66.7247W	50	From 1975-11-14
Arecibo Observatory	AOPR	Puerto Rico	18.3466N	66.7539W	355	
Arenal	AR1	Costa Rica	10.4586N	84.7322W	595	
Arenal	PACM	Costa Rica	10.4840N	84.7670W	490	
Arenal	AREE	Ecuador	1.4823S	78.4213W	4005	
Arenal 1	ARE1	Costa Rica	10.4610N	84.7188W	359	From 2000-01-01
Arenal Observatory Lodge	AROL	Costa Rica	10.4373N	84.7092W	720	
Arenas del Rey	EXAR	Spain	36.9580N	3.8940W	927	
Arenillas	ARNL	Ecuador	3.5478S	80.0670W	44	From 2008-12-17
Arenosillo	ARNO	Spain	37.0988N	6.7322W	45	From 2014-06-01
Areopolis	ARE2	Greece	36.6664N	22.3833E	255	From 2011-09-15
Arequipa	ARE	Peru	16.4621S	71.4913W	2452	
Arette	NE10	Aquitaine,France	43.0860N	0.6990W	480	From 1982-11-01 to 2001-07-28
Arette	ATE	Aquitaine,France	43.0858N	0.7003W	480	From 1977-12-01
Argentiere	OGAG	Provence-Cote d'Azur,France	44.4547N	6.5410E	1300	
Argentine Island	AIA	Antarctic Peninsula	65.2500S	64.2667W	11	From 2001-01-10
Arges	ARR	Romania	45.3675N	24.6336E	871	
Argonne	AO-WS	Wisconsin,U.S.A.	45.6067N	88.9503W	518	
Argonne	AO-	Wisconsin,U.S.A.	45.6067N	88.9503W	518	
Argonne North	ARNI	Idaho,U.S.A.	43.6667N	112.6240W	1553	From 1990-08-14
Argostoli	ARG2	Greece	38.1784N	20.4878E	6	From 2012-09-01
Argostoli (Greece)	KES18	Greece	38.1635N	20.4990E	8	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES02	Greece	38.1663N	20.5090E	0	From 2011-09-16 to 2012-04-20
Argostoli (Greece)	KES16	Greece	38.1638N	20.5007E	5	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES04	Greece	38.1656N	20.5082E	0	From 2011-09-16 to 2012-04-20
Argostoli (Greece)	KER02	Greece	38.1663N	20.5105E	13	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES06	Greece	38.1649N	20.5075E	0	From 2011-09-16 to 2012-04-20
Argostoli (Greece)	KES08	Greece	38.1642N	20.5068E	0	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES11	Greece	38.1634N	20.5055E	0	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES13	Greece	38.1633N	20.5040E	0	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES14	Greece	38.1639N	20.5022E	1	From 2011-09-18 to 2012-04-20
Argostoli (Greece)	KES22	Greece	38.1599N	20.4949E	64	From 2011-09-17 to 2012-04-20
Argostoli (Greece)	KES29	Greece	38.1605N	20.5212E	0	From 2011-09-18 to 2012-04-20
Argyle Ridge	ARGU	Utah,U.S.A.	39.8228N	110.5437W	2828	
Arharly	ARXS	Kazakhstan	44.2130N	77.8270E	1010	From 2000-05-25
Arica	ARCH	Chile	18.4906S	70.2965W	58	From 2008-10-17
Arica	ARI	Tarapaca,Chile	18.5294S	70.1769W	250	
Ariccia	ARIC	Italy	41.7342N	12.6966E	550	From 2012-08-01
Arida	ARD	Wakayama,Japan	34.0859N	135.1620E	40	From 1958-12-01
Ariguani, Magdalena	ARGC	Colombia	9.8580N	74.2460W	187	From 2013-04-25
Arik	KRX	Kamchatskaya Oblast',Russia	53.3590N	158.6490E	1413	From 2009-08-01
Arisaig	KAR1	Scotland,United Kingdom	56.9188N	5.8290W	186	From 1983-01-01
Arizona State University	ASU	Arizona,U.S.A.	33.4163N	111.9350W	354	From 1971-11-01
Arkalochori	ARK1	Crete,Greece	35.1488N	25.2642E	384	From 2011-09-15
Arkansas Junction, Hobbs	127A	New Mexico,U.S.A.	32.6764N	103.3575W	1160	From 2008-03-16 to 2010-03-03
Arkaroola	ARKL	South Australia,Australia	30.2760S	139.3390E	520	
Arkdale	I41A	Wisconsin,U.S.A.	44.0592N	89.8697W	289	From 2011-08-03 to 2013-11-09
Arkhangelos	RHD	Greece	36.2161N	28.1261E	170	From 1966-07-10
Arkhangelos	ARG	Greece	36.2161N	28.1261E	170	From 1966-07-10
Arkhangelsk	ARHR	Arkhangel'skaya Oblast',Russia	64.5505N	40.5148E	23	From 2002-11-01
Arkhyz	ARXR	Russia	43.5620N	41.2747E	1501	From 2006-11-17
Arkit	ARK	Kyrgyzstan	41.7980N	71.9630E	1280	
Arlington	R26A	Colorado,U.S.A.	38.3009N	103.4470W	1304	From 2008-11-30 to 2010-10-18
Arlington Trafton Elementary School	ATES	Washington,U.S.A.	48.2364N	122.0592W	62	
Armento	ARME	Italy	40.3163N	16.0321E	989	
Armidale	ARMA	New South Wales,Australia	30.4183S	151.6293E	1112	From 1995-09-12
Armstrong Family, Eudora	Z43A	Arkansas,U.S.A.	33.2100N	91.2441W	39	From 2011-04-23 to 2013-02-17
Armutlu	ARMT	Turkey	40.5656N	28.8616E	418	
Army Bay	ABAZ	North Island,New Zealand	36.6002S	174.8323E	74	From 2008-10-13
Army Corps of Engineers Seattle ANSS	ACES	Washington,U.S.A.	47.5595N	122.3411W	55	From 2000-07-06
Arna	ARNS	Norway	60.4500N	5.4700E	30	From 2002-01-01
Arnica Sink	LASM	California,U.S.A.	41.5993N	121.5770W	2060	
Arnoeviken	ARNU	Sweden	61.6920N	17.3780E	100	From 2000-07-15
Arnold C. Orvedal, Lecompton	Q36A	Kansas,U.S.A.	38.9612N	95.4609W	306	From 2010-05-14 to 2012-03-07
Arnold Ranch	CAOM	California,U.S.A.	37.3493N	121.5330W	628	
Arnold Ranch	ARN	California,U.S.A.	37.3493N	121.5327W	628	
Arnstein	F51A	Ontario,Canada	45.9284N	79.9150W	239	From 2012-11-03
Aropaoanui	ARHZ	North Island,New Zealand	39.2631S	176.9959E	214	From 2010-03-11
Arp	ARPT	Tennessee,U.S.A.	35.7560N	89.6733W	122	
Arpino	LRP	Italy	41.6471N	13.5866E	317	From 2011-04-27
Arquata del Tronto	AQT1	Italy	42.7738N	13.2935E	770	From 2006-02-08
Ar Rass	ARSS	Saudi Arabia	25.8810N	43.2365E	720	
Arrayan	ARRY	Ecuador	1.5063S	78.4552W	2900	From 1994-10-29
Ar Rayn	RAYN	Saudi Arabia	23.5225N	45.5032E	631	
Ar Rifa	BRF	Bahrain	26.0733N	50.5833E		
Arriondas	EARI	Spain	43.3012N	5.2099W	680	
Arrone	ARRO	Italy	42.5792N	12.7656E	253	From 2011-10-01
Arroyo Pinares	AAPN	Spain	37.3077N	4.1210W	1160	
Arroyo Seco	AASM	California,U.S.A.	38.4300N	121.1090W	65	
Arshan	ARS	Irkutskaya Oblast',Russia	51.9203N	102.4233E	970	
Arslanbob	ARSB	Kyrgyzstan	41.3240N	72.9820E	1510	
Arsuz	ARST	Turkey	36.4550N	35.9400E	35	From 1997-03-01
Art	433A	Texas,U.S.A.	30.7544N	99.0910W	447	From 2009-11-10 to 2011-10-02
Arta	ART	Djibouti	11.5212N	42.8378E	710	From 1972-04-01 to 1976-12-31
Arta	ART2	Greece	39.1476N	20.9938E	195	From 2012-09-01
Arta Grotte	AGD	Djibouti	11.5290N	42.8240E	450	From 1985-03-09
Arta Observatory	ARO	Djibouti	11.5270N	42.8462E	680	From 1972-12-01
Arta Tunnel	ATD	Djibouti	11.5300N	42.8470E	610	
Artemida-Makistos	AMT	Greece	37.5324N	21.7089E	481	From 2008-12-22
Arthez-de-Bearn	ARTL	Aquitaine,France	43.4561N	0.5881W	210	
Arti	ARU	Sverdlovskaya Oblast',Russia	56.4293N	58.5615E	260	
Artic	ARTS	Armenia	40.5733N	43.9983E	2300	
Artigues	ARTF	Provence-Cote d'Azur,France	43.5870N	5.8050E	513	
Artvin	ARTV	Turkey	41.1849N	41.9283E	2034	From 2005-08-05
Artybash	ARTR	Altayskiy Kray,Russia	51.7980N	87.2810E	464	From 1980-07-26
Artyk	AYK2	Sakha,Russia	64.2050N	145.1320E	707	From 2002-04-25
Artyk	ATKR	Sakha,Russia	64.1800N	145.1333E	700	
Aruch	ARUZ	Armenia	40.2830N	44.0910E	1200	
Arusha	ARSH	Tanzania,United Republic of Tanzania	3.3855S	36.7213E	879	
Arusha	ARTT	Tanzania,United Republic of Tanzania	2.7256S	36.2817E		From 1993-01-01
Arviat, NU	ARVN	Nunavut,Canada	61.0898N	94.0648W	-16	From 2006-08-14
Arvin	ARVC	California,U.S.A.	35.1269N	118.8301W	258	From 1983-09-15
Arzberg	ARSA	Austria	47.2505N	15.5232E	577	From 1997-06-20
Arzignano	VARZ	Italy	45.5258N	11.3346E	199	From 2008-09-20
Asacha	ASAK	Kamchatskaya Oblast',Russia	52.3830N	157.9000E	922	From 2008-12-23
Asacha	ASHS	Kamchatskaya Oblast',Russia	52.3000N	157.9800E	386	From 1983-03-01 to 1983-04-01
Asagicarikuru	ASAT	Turkey	40.6936N	30.7439E	100	
Asahigawa	AHS	Shiribeshi,Japan	43.1339N	141.0460E	170	From 1974-04-20 to 1974-12-10
Asahikawa	ASAJ	Kamikawa,Japan	44.1165N	142.5968E	220	From 1978-01-01
Asahikawa	ASA	Kamikawa,Japan	43.7700N	142.3730E	112	
Asama Observatory	AVOE	Nagano,Japan	36.4011N	138.5720E	1406	From 1933-01-01
Asama Yama	ASM	Nagano,Japan	36.4000N	138.5670E		
Ascension	ASCN	Ascension	7.9327S	14.3601W	173	From 1994-10-01
ASCENSION HYDROACOUSTIC SITE N1	H10N1	Ascension	7.8457S	14.4802W	-2772	From 2010-01-24
ASCENSION HYDROACOUSTIC SITE N2	H10N2	Ascension	7.8278S	14.4875W	-2894	From 2010-01-24
ASCENSION HYDROACOUSTIC SITE N3	H10N3	Ascension	7.8409S	14.5017W	-2891	From 2010-01-24
ASCENSION HYDROACOUSTIC SITE S1	H10S1	Ascension	8.9412S	14.6484W	-2605	From 2010-01-24
ASCENSION HYDROACOUSTIC SITE S2	H10S2	Ascension	8.9591S	14.6453W	-2609	From 2010-01-24
ASCENSION HYDROACOUSTIC SITE S3	H10S3	Ascension	8.9527S	14.6629W	-2566	From 2010-01-24
Ascension Island Hydrophone Array Site 19	ASH19	Ascension	7.8250S	14.6020W	-125	
Ascension Island Hydrophone Array Site 21	ASH21	Ascension	7.9870S	14.4950W	-810	
Ascension Island Hydrophone Array Site 23	ASH23	Ascension	8.0697S	14.4175W	-841	
Ascension Island Hydrophone Array Site 24	ASH24	Ascension	8.0557S	14.4490W	-777	
Ascension Island Hydrophone Array Site 25	ASH25	Ascension	8.9465S	14.6500W	-1646	

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Ascension Island Hydrophone Array Site 26	ASH26	Ascension	8.9440S 14.6180W	-1661	
Ascension Island Hydrophone Array Site 27	ASH27	Ascension	7.8530S 14.3660W	-770	
Ascension Island Hydrophone Array Site 29	ASH29	Ascension	7.9490S 14.2660W	-824	
ASCENSION ISLAND INFRASONIC ARRAY REFERENCE POINT	ASCIE	Ascension	7.9377S 14.3752W	189	From 2005-04-14
Ascoli Pisceno	ALP	Italy	42.7803N 13.5761E	1370	From 1979-01-01
Asem Bagus	ABJI	Jawa,Indonesia	7.7957S 114.2342E	0	From 2007-12-01
Aserradero	ASE	Nicaragua	12.4747N 87.1903W		From 1977-02-03 to 1980-12-31
Asgata	ASGA	Cyprus	34.7860N 33.2480E	217	From 2013-07-01
Ashes, Strandquist	B32A	Minnesota,U.S.A.	48.3951N 96.5363W	335	From 2010-08-14 to 2012-06-09
Asheville	AVNC	North Carolina,U.S.A.	35.6240N 82.5310W	943	
Ashfield	BASO	Ontario,Canada	44.0133N 81.6648W	185	From 2007-08-01
Ash Flat	AFAR	Arkansas,U.S.A.	36.1333N 91.5312W	239	
Ashford Hill	AFH	England,United Kingdom	51.3439N 1.2197W	91	
Ashibetsu	JAB	Sorachi,Japan	43.5045N 142.2232E	187	
Ashikaga	JAG	Tochigi,Japan	36.4250N 139.4533E	241	
Ashiyiah	ASHO	Oman	24.6839N 56.0583E	546	From 2004-12-01
Ashizuri	ASZ	Kochi,Japan	32.7200N 133.0133E	32	From 1962-01-01
Ashkhabad	ASHT	Turkmenistan	37.9421N 58.3847E	262	From 2009-12-06
Ashkhabad	ASH	Turkmenistan	37.9500N 58.3500E	220	
Ashland	N51A	Ohio,U.S.A.	40.9183N 82.3748W	343	From 2012-08-28
Ashland	Z50A	Alabama,U.S.A.	33.2540N 85.9226W	370	From 2011-12-22
Ashland	ALO	Oregon,U.S.A.	42.2000N 122.7000W	720	
Ash Meadows, Armagosa	U10A	Nevada,U.S.A.	36.4193N 116.3297W	668	From 2006-06-17 to 2008-10-15
Ashnola River, Keremeos	A07A	British Columbia,Canada	49.0480N 120.3837W	1842	From 2006-10-14 to 2008-06-17
Ashorobuto	JAR	Kushiro,Japan	43.2968N 143.7695E	210	
Ashpeak Ranch, Duncan	119A	Arizona,U.S.A.	32.7663N 109.3029W	1406	From 2007-03-11 to 2009-01-18
Ashqof	ASHJ	Jordan	32.3440N 37.6190E	1100	
Ashtabula EMA	ACEO	Ohio,U.S.A.	41.7490N 80.7680W	293	
Ashtian	ASAO	Iran	34.5480N 50.0253E	2217	From 1998-03-28
Ashton Mining of Canada property	YOSQ	Quebec,Canada	52.8666N 72.1998W	649	From 2005-06-26
Askersund	ASKU	Sweden	58.8946N 14.8288E	150	From 2002-03-25
Askja	IASK	Iceland	65.0519N 16.6482W	955	From 2007-09-21
Askoy	ASK	Norway	60.4830N 5.1950E	50	From 1983-01-01
ASL Pad, Albuquerque Seismic Lab	TASM	New Mexico,U.S.A.	34.9455N 106.4600W	1862	From 2012-05-01
Asmera	ASME	Eritrea	15.3500N 38.9300E	2420	From 1988-01-01
Asmuli	IASM	Iceland	63.8340N 20.6150W	22	From 1990-01-03
Aso	ASO	Kumamoto,Japan	32.8833N 131.0170E	568	From 1928-01-01 to 1999-08-25
Asolfsskalaheidi	IASO	Iceland	63.5966N 19.7311W	673	From 2010-12-17
Asolo	ASOL	Italy	45.8003N 11.9023E	181	From 2011-11-17
Asolo, Italy	MASO	Italy	45.8040N 11.9164E	365	From 2010-06-22
Aso san	ASJ	Kumamoto,Japan	32.8767N 131.0750E	1143	
Aspremont	ASPF	Provence-Cote d'Azur,France	43.7682N 7.2583E	850	
Aspurt	YASP	Spain	42.7292N 1.1634W	692	From 2010-05-01
Aspy Farms, Fremont	M34A	Nebraska,U.S.A.	41.5025N 96.5830W	415	From 2010-05-30 to 2012-04-23
Asqua	ASQU	Italy	43.7967N 11.7893E	860	From 2007-10-25
Assab	ASSBE	Eritrea	13.0628N 42.6545E	191	
As Saff	HSAF	Egypt	29.6187N 31.5538E	450	
Assam	NGJA	Assam,India	26.7067N 91.6750E	60	
Assam	BKOA	Assam,India	25.9833N 91.2667E	50	
Asse, Remlingen/Germany	ASSE	Germany	52.1303N 10.6729E	-809	From 2007-07-01
Assergi	RM28	Italy	42.4024N 13.5486E	1482	From 2009-06-19 to 2009-08-31
Assisi	ASS	Italy	43.0630N 12.6517E	805	From 1983-05-01
Assisi San Benedetto	ASSB	Italy	43.0426N 12.6587E	734	From 2008-06-11
Astakos	AST1	Greece	38.5416N 21.0895E	3	From 2011-07-01
Astara	ASTR	Azerbaijan	38.5600N 48.7910E	148	From 2010-11-29
Astolofo Dutra	ATDB	Minas Gerais,Brazil	21.2900S 42.8606W		From 1995-12-01
Astor Pass	APNR	Nevada,U.S.A.	40.2300N 119.8665W	1471	
Aswan	ASW	Egypt	24.0782N 32.8888E	132	From 1975-10-01
Atacazo Ninahuilca	NINA	Ecuador	0.3903S 78.6185W	4000	From 2012-05-04
Atahualpa	ATAH	Peru	7.1351S 78.3944W	3165	
Atalanti	ATAL	Greece,Greece	38.6926N 23.0213E	290	From 2008-01-01
'Ataq	ATAQ	Yemen	14.5333N 46.8083E	0	
Atar	ATA	Djibouti	11.4537N 43.2052E	50	From 1972-04-01
Atar 1	ATR1	Israel	30.9700N 34.6300E	200	
Atchley Ranch, Grenville	U26A	New Mexico,U.S.A.	36.3945N 103.7439W	1861	From 2008-05-11 to 2010-04-19
Athabasca	ATHA	Alberta,Canada	54.7137N 113.3137W	551	From 2012-10-19
Athalassa	ATHAL	Cyprus	35.1410N 33.3960E	160	From 2013-07-01
Athens Obs.	ATU	Greece	37.9722N 23.7167E	95	From 1892-01-01
Athens Observatory	ATH	Greece	37.9722N 23.7167E	95	From 1892-01-01
Athens University	ATHU	Greece,Greece	37.9665N 23.7845E	308	From 2008-01-20
Athinios (Pelekanos)	THT1	Greece	36.3858N 25.4296E	0	From 2011-03-25
Atibaia	VAO2	Sao Paulo,Brazil	23.2250S 46.5417W	1120	From 1993-07-01
Atico	ATI	Peru	16.1711S 73.6203W	300	
Atikokan Iron Mine	ATKO	Ontario,Canada	48.8231N 91.6004W	382	
Atka	AA-IS	Alaska,U.S.A.	52.2117N 174.2036W	6	
Atka Island	ATKA	Alaska,U.S.A.	52.2027N 174.1955W	55	
ATLACOMULCO	ATVM	Mexico	19.7618N 99.8410W	2527	From 2009-01-01
Atlanta	ATL	Georgia,U.S.A.	33.4333N 84.3375W	272	From 1963-06-21
Atlanta	I12A	Idaho,U.S.A.	43.7945N 115.1328W	1849	From 2007-08-05 to 2009-07-28
Atlantic LNG	ALNG	Trinidad and Tobago	10.1814N 61.6882W		
Atlas Peak	NAPC	California,U.S.A.	38.4395N 122.2527W	716	
Atluck Lake	ATLB	British Columbia,Canada	50.2184N 127.0600W	266	From 2005-04-21
Atoka	AK-	Oklahoma,U.S.A.	34.3683N 96.0572W	183	From 1962-06-17 to 1962-06-28
Atoka	AK-OK	Oklahoma,U.S.A.	34.3683N 96.0572W	183	From 1962-06-17 to 1962-06-28
Atsumi	JYA	Yamagata,Japan	38.5930N 139.7138E	200	
Atsumi	ATM	Yamagata,Japan	38.5650N 139.6620E	180	From 1968-09-15
Atsumi	JAA	Aichi,Japan	34.6317N 137.1433E	30	
Attachie	ATC	British Columbia,Canada	56.2300N 121.4500W		
At Ta'if	TAIF	Saudi Arabia	21.2920N 40.3540E	1680	From 1989-02-01
Attica	ATT	New York,U.S.A.	42.8358N 78.1942W	470	From 1971-07-01 to 1976-01-16
Attock	CAM2	Pakistan	33.7350N 72.2340E	302	From 2009-09-20
Attu Island--Fox	ATTU	Alaska,U.S.A.	52.8821N 173.1643E	250	From 1993-07-01
Attu Island--Fox	FX1	Alaska,U.S.A.	52.8821N 173.1643E	250	From 1993-07-01
At Turbah	TRBA	Yemen	13.2310N 44.1150E	1860	
Atwood	P29A	Kansas,U.S.A.	39.6021N 100.9316W	929	From 2009-05-13 to 2011-04-03
Auburn	ABRN	New York,U.S.A.	42.9963N 76.4853W	224	
Auburn	ABN	Nebraska,U.S.A.	40.3911N 95.8506W	294	From 1977-11-18
Auburn Dam	ADC	California,U.S.A.	38.9448N 120.9680W	524	From 1972-02-01 to 1983-05-16
Auburn Hatchery	AHID	Idaho,U.S.A.	42.7654N 111.1004W	1960	
Auburntown	ABTN	Tennessee,U.S.A.	35.8855N 86.1090W	363	From 1984-01-01
Auchinoon	EAU	Scotland,United Kingdom	55.8454N 3.4474W	359	From 1969-01-01
Auckland	AUC	North Island,New Zealand	36.8607S 174.7777E	79	From 1941-04-04 to 1994-06-12
Augrabies	AUGR	Cape Province,South Africa	28.5940S 20.3380E	619	From 2011-03-30
Augspurger Mountain	APM	Washington,U.S.A.	45.7361N 121.6810W	865	
Augst-Roemermuseum	SAUR	Switzerland	47.5339N 7.7228E	290	From 2006-03-23
Augusta	AG-	Maine,U.S.A.	44.3728N 69.6628W	152	
Augusta	H39A	Wisconsin,U.S.A.	44.6797N 91.2833W	345	From 2011-08-12 to 2013-06-06
Augusta	AG-ME	Maine,U.S.A.	44.3728N 69.6628W	152	
Augusta	HAGA	Sicily,Italy	37.2850N 15.1550E	126	From 1994-05-01
Augusta-Monte Tauro	AGST	Sicily,Italy	37.2565N 15.2271E	70	
Auguste-Victoria Mine North	BAVN	Nordrhein-Westfalen,Germany	51.7380N 7.1220E	65	From 2011-02-21
Augustine Cone H	AUCH	Alaska,U.S.A.	59.3626N 153.4447W	916	From 2013-08-20
Augustine Domo	AUD	Alaska,U.S.A.	59.3626N 153.4260W	1208	From 1994-09-06
Augustine Flow	AUF	Alaska,U.S.A.	59.3878N 153.4590W	165	From 1975-09-01
Augustine H	AUH	Alaska,U.S.A.	59.3639N 153.4430W	890	From 1978-12-01
Augustine Island	AGI	Alaska,U.S.A.	59.3800N 153.4200W	580	From 1971-08-01 to 1976-01-31
Augustine Island	AUE	Alaska,U.S.A.	59.3590N 153.3720W	172	
Augustine Island	AUI	Alaska,U.S.A.	59.3352N 153.4270W	293	From 1978-04-01
Augustine Island	AU2	Alaska,U.S.A.	59.3703N 153.3780W	195	
Augustine Juegen Kienle	AUJK	Alaska,U.S.A.	59.3500N 153.4085W	377	
Augustine Junction	AUJA	Alaska,U.S.A.	59.4100N 153.4161W	22	From 2013-08-20
Augustine Lava	AUL	Alaska,U.S.A.	59.3822N 153.4350W	360	From 1980-10-29
Augustine Mound	AU22	Alaska,U.S.A.	59.3702N 153.3573W	105	From 2006-09-01
Augustine Mound	AUM	Alaska,U.S.A.	59.3708N 153.3530W	105	From 1975-09-01
Augustine NWest	AUNW	Alaska,U.S.A.	59.3782N 153.4768W	160	
Augustine Pinnacle	AUP	Alaska,U.S.A.	59.3623N 153.4210W	1033	From 1977-09-22
Augustine Qik'rtamen	AUQ	Alaska,U.S.A.	59.3549N 153.4143W	647	From 2013-08-20
Augustine SEast	AUSE	Alaska,U.S.A.	59.3414N 153.3975W	152	
Augustine-Summit	AGU	Alaska,U.S.A.	59.3600N 153.4310W	1226	From 1990-09-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Augustine West	AUW	Alaska,U.S.A.	59.3701N	153.4710W	276	From 1986-07-01
Auke Bay	ABF	Alaska,U.S.A.	58.3813N	134.6430W	3	From 1980-10-27
Auki	AUK	Solomon Islands,Papua New Guinea	8.7617S	160.7030E	91	
Aumenau	GWBC	Hessen,Germany	50.3938N	8.2696E	180	From 2001-12-04
Äli-Bayramli	ALIB	Azerbaijan	39.9580N	49.0060E	73	From 2003-08-01
Äppelbo	APO	Sweden	60.5390N	13.9280E	340	From 1969-01-01
Aurakhmat	AUR	Uzbekistan	41.5833N	70.1167E		
Auriere	AURF	Provence-Cote d'Azur,France	43.8873N	7.3275E	1040	
Aurillac	ACDF	Auvergne,France	44.9300N	2.4400E	640	From 2007-05-03
Aurora	Q49A	Indiana,U.S.A.	39.0050N	84.8956W	264	From 2012-06-24
Aurora	AR-WS	Wisconsin,U.S.A.	45.6967N	88.1422W	381	From 1962-06-06 to 1962-10-05
Aurora	AR-	Wisconsin,U.S.A.	45.6967N	88.1422W	381	From 1962-06-06 to 1962-10-05
Aus	AUSN	Namibia	26.6700S	16.2600E	1496	
Au Sable	ASNY	New York,U.S.A.	44.5340N	73.6740W	0	
Ausora	ASOR	Uttar Pradesh,India	28.7558N	77.7722E	0	
Aussois	OG24	Rhone-Alpes,France	45.2217N	6.7357E	1495	From 1993-12-17
Austin	P09A	Nevada,U.S.A.	39.5516N	117.1395W	1737	From 2006-04-14 to 2008-03-08
Austin	AT-NV	Nevada,U.S.A.	39.4814N	117.0739W	1981	From 1962-01-15 to 1963-07-01
Austin	AT-	Nevada,U.S.A.	39.4814N	117.0739W	1981	From 1962-01-15 to 1963-07-01
Austin	ATX	Texas,U.S.A.	30.3144N	97.8667W	280	
Austin	AUS	Texas,U.S.A.	30.2833N	97.7833W		
Austmannsbunga	IAUS	Iceland	63.6723N	19.0808W	1373	From 2011-12-15
Avacha	AVH	Kamchatskaya Oblast',Russia	53.2650N	158.7380E	900	
Avcilar-¨stanbul	AVCI	Turkey	40.9958N	28.7225E	90	From 2014-01-30
Avella	O54A	Pennsylvania,U.S.A.	40.1821N	80.3778W	357	From 2012-12-14
Avellanes	AVN	Spain	41.8837N	0.7518E	630	
Ave Maria	059Z	Florida,U.S.A.	26.3373N	81.4432W	8	From 2012-03-13
Averroes	AVE	Morocco	33.2981N	7.4133W	230	From 1937-06-01
Avery, Jackson	244A	Mississippi,U.S.A.	32.0422N	90.6856W	59	From 2011-03-19 to 2013-01-22
Avery Point	APT	Connecticut,U.S.A.	41.3160N	72.0639W	3	From 1972-01-07 to 1977-06-01
Avezzano	AZI	Italy	41.9884N	13.4357E		From 1987-01-01 to 1994-12-31
Avigliano	AVG3	Italy	40.7619N	15.7251E	1213	
Avigliano	UVAG	Italy	42.6522N	12.4276E	493	From 2008-02-20
Avola	HAVL	Sicily,Italy	36.9600N	15.1250E	455	From 1994-05-01
Avon	AVO	New South Wales,Australia	34.3764S	150.6150E	532	From 1958-01-01
Avondale Springs	ASTN	Tennessee,U.S.A.	36.3270N	83.4760W	730	
Avonos	AVNT	Turkey	38.7794N	34.8553E	1584	From 1998-01-01
AVREN	AVR	Bulgaria	43.1196N	27.6691E	304	From 2006-10-01
Avril sur Loire	AVF	Bourgogne,France	46.7906N	3.3526E	225	From 1977-10-19
Avril sur Loire	AVFP	Bourgogne,France	46.7919N	3.3569E	200	
AVT- Casa Castalda	ATCC	Italy	43.1851N	12.6399E	556	From 2009-12-16
AVT- Montelovesco	ATLO	Italy	43.3152N	12.4073E	583	From 2009-11-11
AVT- Monte Tezio	ATTE	Italy	43.1979N	12.3536E	928	From 2009-12-24
AVT- Monte Valcinella	ATVA	Italy	43.2786N	12.2853E	604	From 2009-11-11
AVT- Monte Valentino	ATVO	Italy	43.3821N	12.4066E	637	From 2009-10-27
Awaji shima	JAJ	Hyogo,Japan	34.3357N	134.9078E	109	
Awajishima-nagasawa	JAWN	Hyogo,Japan	34.4853N	134.9025E	211	From 2014-03-20
Awa shima	JAW	Niigata,Japan	38.4562N	139.2487E	70	
Awhitu Peninsula	AWAZ	North Island,New Zealand	37.0638S	174.6429E	-268	From 2010-12-14
Awoonga Dam	AWOON	Queensland,Australia	24.0773S	151.3147E	553	
Awoonga Dam 3	AWDQ	Queensland,Australia	24.0478S	151.3157E	110	From 1987-07-01
Ayacucho	PP07	Peru	13.0833S	74.2500W	2800	
Ayacucho	AYAC	Peru	13.1510S	74.2060W	2761	
Ayagualo	AYA	El Salvador	13.6294N	89.2894W		
Aya Nagar	AYAN	Delhi,India	28.4822N	77.1267E		From 2001-03-13
Ayaqueme	AYVM	Mexico D.F.,Mexico	19.1678N	98.9542W	2924	
Aybut	ABTO	Oman	17.3538N	53.2966E	650	From 2001-07-01
Aydincik	AYK	Turkey	36.1522N	33.3269E	50	From 1988-01-01
Ayd¨–n/Didim	DDIM	Turkey	37.4571N	27.2414E	93	From 2014-12-04
Ayd¨–ntepe-Bayburt	BAYT	Turkey	40.3935N	40.1410E	1675	From 2008-09-12
Ayenquera	AYE	Peru	17.0133S	71.6719W	240	
Aykdinkavak	AYKD	Turkey	37.4144N	36.8067E	580	From 2009-02-07
'Aynunah	AYUS	Saudi Arabia	28.1889N	35.2689E		
Ayr State High School	AUAYR	Queensland,Australia	19.5800S	147.4100E	13	From 2013-08-11
Ayseler	AYS	Turkey	36.8955N	31.5736E	565	From 1977-02-01
Ayvalik	AYVA	Turkey	39.3083N	26.6903E	82	From 2003-10-24
Azai	AZJ	Shiga,Japan	35.4772N	136.3239E	370	
Azarshahr	IAZR	Iran	37.6783N	45.9800E	2300	From 1995-08-01
Aznalcollar, Sevilla	E017	Spain	37.5720N	6.2290W	259	From 2007-11-15 to 2009-06-19
Azuc	AZUC	Colombia	3.6940N	76.1360W	3680	
Azucar	AZ1C	Colombia	3.7310N	76.1118W	3980	
Azuela	AZU1	Ecuador	0.0825S	77.5905W	1766	From 2003-04-22
Azuero	AZU	Panama	7.7917N	80.2740W	14	
B01	B01	Germany	50.6140N	6.6320E	345	
B02	B02	Germany	50.5760N	6.9450E	400	
B03	B03	Germany	50.6480N	7.3070E	320	
B04	B04	Germany	50.5730N	7.6870E	270	
B05	B05	Germany	50.4810N	6.5670E	500	
B06	B06	Germany	50.4300N	6.7730E	500	
B07	B07	Germany	50.4820N	7.0290E	230	
B08	B08	Germany	50.4630N	7.1680E	355	
B09	B09	Germany	50.4880N	7.4750E	150	
B10	B10	Germany	50.3350N	6.5770E	550	
B11	B11	Germany	50.3530N	6.8230E	435	
B12	B12	Germany	50.3690N	6.9690E	380	
B13	B13	Germany	50.3500N	7.3680E	140	
B14	B14	Germany	50.3460N	7.7490E	395	
B15	B15	Germany	50.2120N	6.9810E	425	
B16	B16	Germany	50.2210N	7.2350E	315	
B17	B17	Germany	50.2090N	7.4950E	320	
B18	B18	Germany	50.1650N	6.2070E	540	
B19	B19	Germany	50.1810N	6.5240E	540	
B20	B20	Germany	50.0510N	6.2990E	465	
B21	B21	Germany	50.0370N	6.5880E	345	
B22	B22	Germany	50.0320N	7.5180E	435	
B23	B23	Germany	49.9170N	6.3450E	345	
B24	B24	Germany	49.9210N	6.5740E	340	
B26	B26	Germany	49.9040N	7.3920E	400	
B27	B27	Germany	49.9010N	7.7140E	350	
B29	B29	Germany	49.7190N	6.7940E	450	
B30	B30	Germany	49.7590N	7.2400E	440	
B32	B32	Germany	49.7620N	7.7900E	250	
B33	B33	Germany	49.7620N	8.1860E	165	
B34	B34	Germany	49.5210N	7.7120E	280	
B35	B35	Germany	49.5160N	6.6090E	180	
B36	B36	Germany	49.5010N	6.7810E	275	
B37	B37	Germany	49.4820N	7.0320E	335	
B38	B38	Germany	49.5070N	7.4530E	225	
B39	B39	Germany	49.5050N	7.7770E	290	
B40	B40	Germany	49.1710N	6.8220E	300	
B41	B41	Germany	49.1970N	7.1450E	310	
B42	B42	Germany	49.1840N	7.4950E	340	
B43	B43	Germany	50.0270N	7.6830E	410	
B44	B44	Germany	50.0360N	7.9500E	345	
B46	B46	Germany	50.2130N	7.9910E	375	
B49	B49	Germany	50.4540N	8.0810E	235	
B50	B50	Germany	50.6220N	7.4310E	200	
B51	B51	Germany	50.4820N	7.2670E	110	
B52	B52	Germany	50.3490N	7.1980E	410	
B53	B53	Germany	50.2510N	7.0740E	490	
B54	B54	Germany	50.1770N	7.0430E	430	
B55	B55	Germany	50.1580N	6.9850E	400	
B56	B56	Germany	50.1110N	6.9710E	365	
B57	B57	Germany	50.0650N	6.9460E	380	
B58	B58	Germany	50.0280N	6.8720E	350	
B59	B59	Germany	50.0100N	6.8390E	365	
B60	B60	Germany	49.9660N	6.8270E	280	
B61	B61	Germany	49.9150N	6.7800E	340	
B62	B62	Germany	49.8720N	6.7110E	300	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
B63	B63	Germany	49.8490N	6.6590E	385	
B64	B64	Germany	49.8150N	6.6180E	305	
B65	B65	Germany	49.7620N	6.5600E	265	
B66	B66	Germany	49.6910N	6.4700E	160	
B67	B67	Germany	49.5570N	6.4720E	385	
B70	B70	Germany	50.2620N	6.6600E	380	
B71	B71	Germany	50.1950N	6.7400E	485	
B72	B72	Germany	50.1480N	6.8240E	415	
B73	B73	Germany	50.0260N	7.0710E	165	
B74	B74	Germany	49.9840N	7.1490E	130	
B75	B75	Germany	49.9390N	7.2170E	430	
B82	B82	Germany	50.5590N	6.2360E	530	
Ba@14rda@14	BRDA	Azerbaijan	40.2630N	47.1790E	103	From 2003-08-01
Baar Spital, ZG	SBAS	Switzerland	47.1938N	8.5170E	433	From 2014-10-16
Babate	BBTS	Senegal	14.6613N	16.5332W	0	
Babati	BBAT	Tanzania,United Republic of Tanzania	4.2048S	35.7610E	1337	
Babbit Peak	BABR	California,U.S.A.	39.6024N	120.1059W	2659	
Babushkin	BTMB	Buryatiya,Russia	51.7000N	105.8320E	550	From 1999-03-01
Bacau	BAC	Romania	46.5669N	26.9124E	169	From 1942-12-25
Bac Can	BCVB	Vietnam	21.8848N	105.7725E	51	From 2008-01-01
Baccana	BACM	Italy	44.2783N	10.0722E	450	From 1998-11-01
Baccarat	BACF	Lorraine,France	48.4440N	6.7390E	316	
Bac-Giang	BGV	Vietnam	21.2941N	106.2290E	15	From 1967-04-01
Bachatsky 1, Kuzbass, Russia	BJR1	Kemerovskaya Oblast'	54.2378N	86.0395E	369	From 2014-12-01
Bachatsky-2, Kuzbass, Russia	BJR2	Kemerovskaya Oblast'	54.2810N	86.1268E	300	From 2014-11-27
Bachatsky-4, Kuzbass, Russia	BJR4	Kemerovskaya Oblast'	54.3009N	86.2749E	217	From 2014-12-03
Bachelor Mtn.	BACC	California,U.S.A.	33.6122N	117.0406W	551	
Backbrunna	BACU	Sweden	59.8540N	17.1078E	100	From 2001-12-12
Backryungdo	KSBAR	Republic of Korea	37.9770N	124.7142E	0	From 2008-02-14
Bacolet	BOT	Trinidad and Tobago	11.1667N	60.7179W	30	
Bacon Ridge	BCRT	Tennessee,U.S.A.	35.7660N	84.5760W	409	
Baconsthorpe	ABA1	England,United Kingdom	52.8884N	1.1453E	74	From 1982-01-01
Badajoz	EXBA	Spain	38.8790N	6.9700W	185	
Badajoz	EBAD	Spain	38.7556N	7.0133W	221	
Badegauja	BADN	Nepal	28.7330N	81.1670E	1556	
Bademkaya	DBAD	Turkey	41.0183N	41.6947E	1139	From 2007-09-26
Badger Mountain	BDG	Washington,U.S.A.	46.2347N	119.3170W	475	From 1969-03-01
Badiali	BADI	Italy	43.5097N	12.2443E	430	From 2004-07-30
Bad Neuenahr-Ahrweiler	AHRW	Rheinland-Pfalz,Germany	50.5410N	7.0760E	90	From 2009-05-14
Badra	IBDR	Iraq	33.1100N	45.9300E	90	From 2009-01-01
Badran	BDRN	Syria	33.3408N	36.3095E	965	From 1994-12-01
Bad Reichenhall	BHG	Bayern,Germany	47.7214N	12.8789E	475	From 1972-03-01
Bad Segeberg	BSEG	Schleswig-Holstein,Germany	53.9353N	10.3169E	40	
Bad Urach	BUCH	Baden-Wurttemberg,Germany	48.4496N	9.3529E	785	From 2002-01-01
Baengnyeongdo	KSBRD	Republic of Korea	37.9677N	124.6303E	169	From 2001-11-06
Baffin Island 1	B1NU	Nunavut,Canada	68.4619N	71.5880W	181	
Baffin Island 2	B2NU	Nunavut,Canada	68.9216N	73.1966W	157	
Bafgh	IBAF	Iran	31.5902N	55.5673E	1485	From 1998-10-01
Baggett Ranch, Ozona	430A	Texas,U.S.A.	30.7866N	101.2362W	768	From 2009-02-14 to 2010-12-12
Baghdad	BHD	Iraq	33.2700N	44.3800E	32	From 1979-01-01
Bagley Icefield	BAGL	Alaska,U.S.A.	60.4901N	142.0895W	55	
Bagneres-Bigorre	BDB	Midi-Pyrenees,France	43.0650N	0.1483E	561	From 1960-01-01 to 1970-12-31
Bagni Di Lucca	BDI	Italy	44.0625N	10.5969E	830	From 1983-10-01
Bagolino	BAG8	Italy	45.8228N	10.4664E	807	From 2006-06-15
Bagra	BGP	Pakistan	33.9742N	73.0682E	777	
Baguashan	BGSB	Taiwan region	24.0570N	120.6106E	0	
Baguio	BAF*	Luzon,Philippines	16.4167N	120.6000E	1500	From 1972-01-01
Baguio City	BAG	Luzon,Philippines	16.4108N	120.5800E	1507	From 1909-01-01
Baguio City	BCP	Luzon,Philippines	16.4180N	120.6100E	1500	
Baguio City Dairy Farm	BCPH	Luzon,Philippines	16.3810N	120.5810E	1500	
Baguio Weather Station	BWP	Luzon,Philippines	16.4047N	120.6022E		
Bagumbayan, Sultan Kudarat, Philippines	SKMP	Mindanao,Philippines	6.5194N	124.5429E	100	From 2012-06-04
Bahadurgarh	BHGR	Haryana,India	28.6877N	76.9388E	0	
Bahawalnagar	BNGR	Punjab,India	29.9500N	73.2500E	157	From 2006-05-20
Bahia de Los Angeles	LAX	Baja California,Mexico	28.9467N	113.5670W	50	From 1971-12-31
Bahia Malaga	MALC	Colombia	4.0130N	77.3352W	75	
Bahia Solano	SOLC	Colombia	6.2265N	77.4087W	38	From 1994-01-01
Bahrah	BARA	Saudi Arabia	21.4400N	39.4710E	250	From 1995-04-01
Bahrah	BHRA	Saudi Arabia	21.4440N	39.9680E		From 1995-01-01 to 1999-08-25
Bahraich	BRCI	Uttar Pradesh,India	27.5667N	81.5833E	123	
BAHRAICH	BRCH	Uttar Pradesh	27.3400N	81.3500E	123	From 1981-08-31
Baia Mare	BMR	Romania	47.6736N	23.4960E	294	From 1979-01-01
Baidarnaya	BDR	Kamchatskaya Oblast',Russia	56.5680N	161.2080E	936	From 2005-10-08
Baie Comeau	CNQ	Quebec,Canada	49.3022N	68.0744W	200	From 1991-01-07
Baie du Lac Sali	BLSD	Djibouti	11.5908N	42.5178E	100	From 1987-01-01
Baie-St-Paul	BLBQ	Quebec,Canada	47.4275N	70.5156W	35	From 2009-11-05
Baie-St-Paul	BSPQ	Quebec,Canada	47.4400N	70.5100W	0	From 1979-05-24
Baijiatuau	BJT	Beijing,China	40.0183N	116.1680E	197	From 1995-01-01
Bailadores	BLV	Venezuela	8.1908N	71.8256W	1110	From 1969-08-01 to 1970-09-29
Bailesti	BAIL	Romania	44.0201N	23.3450E	103	From 2012-11-21
Bailey Peak	BAP	Utah,U.S.A.	38.5264N	112.7950W	2387	
Bailey Ranch, Gibbon	N31A	Nebraska,U.S.A.	40.8235N	98.9544W	687	From 2009-09-11 to 2011-08-18
Bainbridge School	BABE	Washington,U.S.A.	47.6058N	122.5353W	83	
Baing, Sumba	BASI	Sumba,Indonesia	10.2189S	120.5777E	80	From 2008-12-01
Bains de Bromines	BROM	Rhone-Alpes,France	45.9450N	6.0668E	535	From 1997-02-19
Baital	BTLS	Kazakhstan	45.0410N	74.0460E	341	From 2010-10-01
Baives	BAIF	Nord-Pas-de-Calais,France	50.0592N	4.2078E	215	From 1996-04-03
Bajamar	EBAJ	Spain	28.5399N	16.3434W	239	
Bajram Curri	BCI	Albania	42.3666N	20.0675E	500	
Bakacak	BKT	Turkey	40.1420N	29.1360E	1734	From 1978-09-01 to 1980-12-31
Bakel	BKL	Senegal	14.9024N	12.4648W	30	From 1976-11-01
Baker	E24A	Montana,U.S.A.	46.5608N	104.3073W	912	From 2008-11-12 to 2010-08-04
Baker	BKRC	California,U.S.A.	35.2693N	116.0703W	275	
Baker Lake	BLC	Northwest Territories,Canada	64.3167N	96.0167W	16	From 1965-07-26
Baker Lake, Hudson Bay	YBKN	Nunavut,Canada	64.3185N	96.0026W	25	From 2006-08-27
Bakersfield	BF-	California,U.S.A.	35.6481N	118.8575W	567	
Bakersfield	BF-CL	California,U.S.A.	35.6481N	118.8575W	567	
Baki	BAK	Azerbaijan	40.3720N	49.8180E	83	From 1903-01-01
Bakirkoy-Istanbul	HVHR	Turkey	40.9698N	28.8445E	22	From 2011-01-01
Bakonya	RHK1	Hungary	46.0948N	18.0720E	297	
Bakultala	BAKU	Andaman Islands,India	12.3036N	92.5139E	30	From 2012-01-01
Bakuriani	BKR	Georgia,Georgia	41.7337N	43.5032E	1798	From 1955-01-01
Bakuriani	BKRG	Georgia,Georgia	41.7596N	43.5223E	1655	From 2013-09-29
Bala	BALAT	Turkey	39.5562N	33.1198E	1288	From 2007-12-21
Bala	BBAL	Turkey	39.5427N	33.1230E	1312	From 2008-03-05
Balakot	BLKT	Pakistan	34.5300N	73.3300E	991	From 2007-10-10
Balboa, Cauca	BBAC	Colombia	2.0210N	74.2480W	1723	From 2013-04-26
Balboa Heights	BHP	Panama	8.9608N	79.5581W	36	From 1914-01-01 to 1977-03-31
Balcom Canyon	BALC	California,U.S.A.	34.3076N	118.9671W	258	
Balcova	BLCB	Turkey	38.3853N	27.0420E	150	From 2004-10-05
Bald Eagle	BED	District of Columbia,U.S.A.	38.8200N	77.0089W		
Bald Hill	BLH	Washington,U.S.A.	47.8368N	122.0320W	198	
Bald Knob	BK-AR	Arkansas,U.S.A.	35.3567N	91.6450W	122	From 1962-07-06 to 1963-04-10
Bald Knob	BK-	Arkansas,U.S.A.	35.3567N	91.6450W	122	From 1962-07-06 to 1963-04-10
Bald Knob	W42A	Arkansas,U.S.A.	35.2732N	91.5224W	71	From 2011-07-29 to 2013-03-07
Bald Mountain Lookout	CBLG	California,U.S.A.	37.7715N	118.8980W	2560	From 1984-01-01
Bald Mountain Lookout Tower, Alberta	BDMTA	Alberta	54.8129N	118.9149W	934	From 2014-07-30
Bald Peter	VBPM	Oregon,U.S.A.	44.6610N	121.6890W	1876	
Bald Peter	BPO	Oregon,U.S.A.	44.6519N	121.6890W	1957	From 1987-09-01
Baldwin	BA-	Wisconsin,U.S.A.	44.8994N	92.2722W	335	From 1962-10-11 to 1962-10-27
Baldwin	BA-WS	Wisconsin,U.S.A.	44.8994N	92.2722W	335	From 1962-10-11 to 1962-10-27
Baldwin Hills Oil	BHPC	California,U.S.A.	33.9905N	118.3617W	81	
Baldy	BALM	Alaska,U.S.A.	61.0362N	142.3450W	1300	From 1973-08-24
Baldy Mountain	GBMM	California,U.S.A.	39.1418N	122.4940W	975	
Baldy Mountain	BALA	Alaska,U.S.A.	55.1937N	162.7857W	329	From 1996-07-01
Baleine	SVL	St Vincent,Saint Vincent and the Grenadines	13.3680N	61.2040W	91	
Baler	BALP	Luzon,Philippines	15.7410N	121.5760E	50	
Balgarevo	KALB	Bulgaria	43.4059N	28.4162E	121	From 2012-11-20
Balikesir	BALB	Turkey	39.6400N	27.8800E	120	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Bal¯–kesir	KNL	Turkey	40.2707N	27.5261E	178	From 2006-09-07
Bal¯–kesir/Burhaniye-Dutluca	BUHA	Turkey	39.5011N	27.0769E	258	From 2014-12-01
BALIKESIR_Savastepe	STEP	Turkey	39.3767N	27.7183E	519	From 2011-09-29
Balikpapan	BKB	Kalimantan,Indonesia	1.2605S	116.8963E	0	
Balikpapan	BKB2	Kalimantan,Indonesia	1.2605S	116.8960E		
Baljurashi	BLJS	Saudi Arabia	19.9571N	41.6051E	2239	
Baljuvan	BLD	Tajikistan	38.3000N	69.6600E		
Ballabur	BAU	Azerbaijan	38.7100N	48.7800E	70	From 1984-01-01
Ballarat	BRAT	Victoria,Australia	37.5500S	143.9310E	9	
Ballidu	BAL	Western Australia,Australia	30.6065S	116.7072E	300	From 1982-08-27 to 1997-12-31
Ballidu	BLDU	Western Australia,Australia	30.6147S	116.7091E	280	From 1999-11-08
Ballon Servance	BSF	Franche Comte,France	47.8319N	6.7922E	1200	
Balmorhea	BM-TX	Texas,U.S.A.	30.9264N	103.8550W	1067	From 1962-01-20 to 1962-02-15
Balmorhea	BM-	Texas,U.S.A.	30.9264N	103.8550W	1067	From 1962-01-20 to 1962-02-15
Balmorhea Ranch, Pecos	327A	Texas,U.S.A.	31.3691N	103.4923W	784	From 2008-03-20 to 2010-02-13
Balsthal	BALST	Switzerland	47.3358N	7.6950E	908	From 2000-06-16
Baltah	BLIT	Tunisia	36.7130N	8.9528E	225	
Baltimore	BALH	Maryland,U.S.A.	39.2967N	76.6200W		From 1908-01-01 to 1916-01-01
Baltimore	BLVT	Vermont,U.S.A.	43.3488N	72.5853W	300	
Balya	BALY	Turkey	39.7403N	27.6195E	645	From 2007-05-24
Balzapamba Montalvo, CascadaMilagrosa	MONB	Ecuador	1.7674S	79.1951W	700	From 2012-07-25
Balzar	BALZ	Ecuador	1.3762S	79.9109W	34	From 2012-05-21
Bamboo Saint Ann	BBJ	Jamaica	18.3830N	77.2670W	641	From 1977-02-14
Bambui	BNC	Cameroon	6.0160N	10.2800E	1890	From 1987-02-17
Bamfield	BFSB	British Columbia,Canada	48.8336N	125.1361W	23	From 2013-11-15
Bamfield	B928	British Columbia,Canada	48.8337N	125.1345W	-227	
Bamfield Marine Station	BMSB	British Columbia,Canada	48.8356N	125.1355W	10	From 2003-03-07
Banah	BANOM	Oman	25.9233N	56.2996E	504	From 2004-12-01
Banawang	BNP	Luzon,Philippines	14.6188N	120.4140E	71	
Banca Lucia	BANL	Costa Rica	10.5197N	84.8320W	821	From 2000-01-01
Bancas Point	BCPM	Alaska,U.S.A.	59.9533N	139.6350W	396	From 1979-07-07
Bancroft	BANO	Ontario,Canada	45.0198N	77.9280W	360	From 2009-04-29
Banda Aceh	BSI	Sumatera,Indonesia	5.4964N	95.2961E	192	
Bandanaira	BNDI	Moluccas,Indonesia	4.5224S	129.9045E	16	From 2008-07-04
Bandar-abas	IBND	Iran	27.4489N	56.5399E	62	From 2006-07-01
Bandar-Abbas	BNDS	Iran	27.3993N	56.1713E	1500	From 2004-05-13
Bandar Lampung	BLSI	Sumatera,Indonesia	5.3676S	105.2452E	147	From 2005-01-01
Bandirma	BNT	Turkey	40.3561N	27.9200E	354	From 1984-01-01
Bandung	BND	Jawa,Indonesia	6.9000S	107.6500E	726	
Banff	BAN	Alberta,Canada	51.1717N	115.5580W	1500	From 1956-08-01 to 1966-09-22
Bangkinang	BKNI	Sumatera,Indonesia	0.3262N	101.0396E	65	From 2008-04-26
BangkokBB_BH_low_level	TMDB	Thailand	13.6684N	100.6068E	-47	
Bangong	ST19	Xizang Zizhiqu,China	32.0576N	89.1912E	4596	From 1998-07-10 to 1999-05-29
Bangong Suture	ST21A	Xizang Zizhiqu,China	32.2750N	89.0972E	4644	From 1998-07-24 to 1999-05-29
Bangor	BG-	Maine,U.S.A.	44.6344N	69.2214W	183	From 1961-11-04 to 1962-07-01
Bangor	BG-ME	Maine,U.S.A.	44.6344N	69.2214W	183	From 1961-11-04 to 1962-07-01
Bangor (NY)	BGR	New York,U.S.A.	44.8288N	74.3742W	297	From 1976-11-01
Bangui	BCAO	Central African Republic	4.4333N	18.5353E	336	From 1979-05-31 to 1999-08-25
Bangui	BNG	Central African Republic	4.4350N	18.5467E	378	
Bangula	BANG1	Malawi	16.5842S	35.1165E	96	From 2011-04-26
BANI	BANI	Dominican Republic	18.3923N	70.3582W	1038	From 1996-06-01
Bani Suef	NBNS	Egypt	28.6226N	31.2945E	295	From 2010-03-20
Bani Suef	HBNS	Egypt	28.9517N	31.2126E	210	
Banja Luka	BLY	Bosnia and Herzegovina	44.7488N	17.1839E	256	From 1975-05-01
Banjamegara	BJII	Jawa,Indonesia	7.3329S	109.7096E	629	From 2000-01-01
Banjar Baru	BBKI	Kalimantan,Indonesia	3.4625S	114.8411E	110	From 2005-01-01
Banks Island	BNKB	British Columbia	53.3318N	129.9017W	421	From 2014-08-20
Banloc	BANR	Romania	45.3825N	21.1355E	80	
Bannalp	BNALP	Switzerland	46.8705N	8.4250E	1540	From 1998-09-30
Bannockburn	BANM	Victoria,Australia	38.0515S	144.2498E	200	
Banos Encina	EBAN	Spain	38.1643N	3.7857W	460	From 1986-11-01
Banyuglugur	BLJI	Jawa,Indonesia	7.7450S	113.5950E	0	From 2007-12-01
Banyuwangi	BYJI	Jawa,Indonesia	8.2140S	114.3557E	0	From 2007-12-01
Baotou	BTO	Nei Monggol Zizhiqu,China	40.6056N	110.0208E	1114	
Baotou	PAO	Nei Monggol Zizhiqu,China	40.6056N	110.0208E	1114	
Baptist College of Charleston	BCS	South Carolina,U.S.A.	32.9797N	80.0653W	9	From 1976-03-31
Barahona	BRH1	Dominican Republic	18.2082N	71.0931W	30	From 2011-06-14
Baranello	BAI2	Italy	41.5092N	14.5531E	745	
Barangay Tapao	SIPH	Philippines	17.8917N	120.4580E	33	From 2005-10-19
Baratang	BTNG	Andaman Islands,India	12.1096N	92.4736E	28	From 2012-01-01
Barbacena	BARB	Minas Gerais,Brazil	21.2210S	43.8005W	1030	
Barbados	BDS	Barbados	13.1460N	59.6260W	110	From 1969-07-30
Barbados	BRB	Barbados	13.1220N	59.6060W	55	From 1955-06-30 to 1969-07-25
Barbados, Cave Hill Campus	BCHC	St Lucia	13.1339N	59.6305W	11	From 2013-05-01
Barbar	BRBR	Syria	33.4113N	35.9508E	1834	From 1994-12-01
Barbarano Romano - VT	TO08	Italy	42.2244N	12.0526E	463	From 2008-05-29 to 2009-04-02
Barber's Block	BBL	Dominica	15.5262N	61.4700W	365	From 1978-11-21
Barbuda	BWI	Barbuda,Antigua and Barbuda	17.6650N	61.7900W	30	From 1977-01-01
Barcellona Pozzo di Gotto	SBPG	Italy	38.1422N	15.2048E	59	From 2012-07-01
Barcelona	BARV	Venezuela	9.9839N	70.7456W	615	
Bardonecchia	BNI	Italy	45.0522N	6.6786E	1410	
Bare Mountain	BRO	Nevada,U.S.A.	36.7628N	116.6250W	920	From 1978-11-28
Barentsburg A	BRBA	Svalbard,Norway	78.0591N	14.2170E	6	From 2000-11-16
Barentsburg B	BRBB	Svalbard,Norway	78.0935N	14.2080E	38	From 2001-08-12
Bare Point	BPCB	British Columbia,Canada	48.9236N	123.7045W	31	From 2008-03-19
Bar Giyyora	BGIO	Israel	31.7221N	35.0878E	760	From 1986-08-11
Barguzin	BGZ	Buryatiya,Russia	53.6167N	109.6167E		
Barham	BHM	England,United Kingdom	51.2128N	1.1742E	100	
Bari	BAI*	Italy	41.1200N	16.8667E	0	
Bari	BAI	Italy	41.1070N	16.8790E	15	
Bariadhala	BRDH	Bangladesh	22.6770N	91.6425E	44	
Bari-Castellana	BRT	Italy	40.8778N	17.2036E	333	From 1978-01-01
Barichara	BARC	Colombia	6.5923N	73.1823W	1877	
Barinas	BRIV	Venezuela	8.6170N	70.4510W	0	
Baring Head	BHW	North Island,New Zealand	41.4082S	174.8712E	101	From 1975-11-27
Barisakho	BROG	Georgia,Georgia	42.4500N	44.9300E	1250	
Barisano	BRSN	Italy	44.2841N	12.0769E	20	
Barisciano	RM14	Italy	42.3454N	13.5722E	1105	From 2009-04-07 to 2009-08-31
Barje	BARS	Serbia	42.8165N	21.8153E	392	From 1996-03-07
Barkley Canyon	NCBC	British Columbia,Canada	48.4275N	126.1752W	-398	From 2009-09-01
Barkley Ridge	BARK	Alaska,U.S.A.	60.4035N	142.4911W	1141	
Barley Canyon	BRC	New Mexico,U.S.A.	35.8903N	106.7110W	2261	From 1976-06-01 to 1999-08-25
Barnard Glacier	BARN	Alaska,U.S.A.	61.0599N	141.6601W	1915	
Barnard House	BHS	St Vincent,Saint Vincent and the Grenadines	13.2963N	61.1272W	90	
Barnechea	BACH	Santiago,Chile	33.3528S	70.4917W	820	
Barney Top	BTU	Utah,U.S.A.	37.7557N	111.8743W	3235	
Baronissi	BSS	Italy	40.7906N	14.8061E	205	
Barra de Sao Francisco	BSFB	Espirito Santo,Brazil	18.8313S	40.8465W	185	
Barrage Abdel Moumen	BAM	Morocco	30.6661N	9.1661W		
Barrage El Makhazine	BMK	Morocco	34.9410N	5.8430W	166	From 1979-06-01 to 2001-10-26
Barrage Ibn Batouta	BBT	Morocco	35.6480N	5.7290W	60	From 1981-01-01
Barrage Mansour Eddahbi	BME	Morocco	30.9156N	6.7603W	1078	From 1975-03-01
Barrage Mohamed Ben Abdellah	BMB	Morocco	33.9422N	6.7511W	40	From 1978-01-01
Barrage Mohammed V	BMKM	Morocco	34.6590N	2.9340W	274	
Barra Mansa	BMA	Rio de Janeiro,Brazil	22.6950S	44.1536W	595	
Barranca, Santander	BRRC	Colombia	7.1072N	73.7120W	137	From 2009-01-01
Barranco	PFBV	Portugal	37.2715N	7.9808W	573	From 1996-01-01 to 2009-05-30
Barranco-do-Velho	PBDV	Portugal	37.2430N	7.9312W	468	From 2007-01-08
Barrancos	PBAR	Portugal	38.1750N	7.0390W	205	From 2007-01-01
Barreal	RTBS	San Juan,Argentina	31.6614S	69.4531W		
Barre de l'ile, St louis, Marie Galante	MAGL	Guadeloupe,France	15.9494N	61.2822W	157	From 2012-09-14
Barren Site	BNM	New Mexico,U.S.A.	34.1502N	106.6280W	2121	
Barre Substation	BREC	California,U.S.A.	33.8077N	117.9812W	24	
Barrett	BAR	California,U.S.A.	32.6801N	116.6721W	496	From 1952-01-17
Barrette	BAH	Hawaii,U.S.A.	21.3397N	158.0770W		From 1970-01-01 to 1999-08-25
Barrientos, Norte de Santander	CBRI	Colombia	7.7165N	72.7968W	1427	From 2009-09-01 to 2011-11-30
Barrier Glacier	BGL	Alaska,U.S.A.	61.2635N	152.3910W	1173	From 1989-01-01
Barrier Glacier Two	BGRM	Alaska,U.S.A.	60.7575N	152.4180W	985	From 1991-07-01
Barrio Florida	PWP	Puerto Rico	18.1350N	65.4450W	10	From 1975-03-01 to 1978-03-13

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Barrow	BRW	Alaska,U.S.A.	71.3033N	156.7480W		From 1965-01-01
Barrow	A21K	Alaska,U.S.A.	71.3221N	156.6175W	0	From 2014-05-28
Barrow	BRV	Alaska,U.S.A.	71.2742N	156.7850W	15	
Barry, Barry	P41A	Illinois,U.S.A.	39.6750N	91.0619W	215	From 2011-06-09 to 2013-04-13
Barry Inlet	BNB	British Columbia,Canada	52.5758N	131.7520W	765	From 1985-09-01
Barry Ridge	KBRM	California,U.S.A.	40.7298N	123.9560W	853	
Barter Island	BI1	Alaska,U.S.A.	70.1318N	143.6420W	10	From 1975-09-01 to 1999-08-25
Barter Island	BI2	Alaska,U.S.A.	69.6233N	145.8950W	1100	From 1975-09-01 to 1999-08-25
Barter Island	BI3	Alaska,U.S.A.	69.5967N	144.3710W	690	From 1975-09-01 to 1978-08-14
Barter Island	BI4	Alaska,U.S.A.	69.5202N	142.9800W	745	From 1975-09-01 to 1999-08-25
Bart¯–n	BTIN	Turkey	41.6362N	32.2504E	233	From 2011-02-02
Barton Gulch	BGMT	Montana,U.S.A.	45.2333N	112.0400W	2172	
Baru	BRU	Panama	8.8068N	82.5608W	3425	
Bar X Bar Ranch, Keystone	M28A	Nebraska,U.S.A.	41.3956N	101.3715W	1071	From 2009-05-14 to 2011-04-11
Basata	HBST	Egypt	29.2166N	34.7327E	240	
Baschi	MNBS	Kazakhstan	44.0790N	78.4010E	1290	From 2000-08-12
Basco	BAP*	Batan Islands,Philippines	20.4622N	121.9695E	10	
Basco	BBP	Batan Islands,Philippines	20.4411N	121.9640E	40	
Base Areonavale d'Aspretto	AJAC	Corse,France	41.9280N	8.7630E	27	From 2011-06-30
Basecamp	BASC	Jammu and Kashmir,India	34.9200N	77.2100E	3455	From 2012-01-01
Base Esperanza	ESPZ	Antarctic Peninsula	63.3981S	56.9964W	31	
Basel-Blauen	BBS	Switzerland	47.4644N	7.5092E	700	From 1974-06-01
Basel-Friedhofgasse	SBAF	Switzerland	47.5838N	7.5920E	248	From 1998-02-13
Basel, Klybeck	SBAK	Switzerland	47.5718N	7.5928E	252	From 2014-08-15
Basel, Mˆ…nster, BS	SBAM2	Switzerland	47.5556N	7.5922E	278	From 2013-11-01
Basel-PUK	SBAP	Switzerland	47.5724N	7.5644E	263	From 1998-05-11
Basel, St Johann, BS	SBAJ2	Switzerland	47.5670N	7.5823E	259	From 2013-11-01
Basel-Tropenhaus	SBAT	Switzerland	47.5586N	7.5817E	260	From 1992-05-05
Basel, Vogelsang, BS	SBAV	Switzerland	47.5633N	7.6080E	269	From 2013-11-01
Basel, Wirtschaftsgymnasium, BS	SBAW	Switzerland	47.5476N	7.6038E	271	From 2013-11-01
Basha	BASHA	Pakistan	35.4800N	73.6930E	1994	From 2007-09-01
Bashay	BASH	Tanzania,United Republic of Tanzania	4.0037S	35.3512E	1929	
Basiliko Farm, Boston	K54A	New York,U.S.A.	42.6097N	78.6908W	465	From 2013-05-15
Basin Creek	BCM	Montana,U.S.A.	45.8355N	112.5150W	1975	From 1980-11-12 to 1981-10-10
Basin Creek Farm, Marlvern	X40A	Arkansas,U.S.A.	34.4873N	92.8342W	158	From 2011-01-26
Basiran	BSRN	Iran	31.9651N	59.1259E	1416	
Baskale_VAN	BASK	Turkey	38.0523N	44.0040E	1931	From 2011-06-27
Basking Ridge	BRNJ	New Jersey,U.S.A.	40.6828N	74.5660W	50	
Basle	BAS	Switzerland	47.5400N	7.5817E	309	From 1934-01-01 to 1978-12-31
Basmakˆ§i-Afyon	BASM	Turkey	37.9193N	30.0498E	897	From 2013-11-19
Basra	BSR	Iraq	30.6000N	47.8000E		
Basset	K30A	Nebraska,U.S.A.	42.6742N	99.6131W	712	From 2009-09-19 to 2011-07-29
Basse Terre	BTG	Guadeloupe,France	15.9902N	61.7192W	42	From 1976-01-01
Bassetti Ranch	PBRM	California,U.S.A.	35.5485N	121.0090W	85	
Bass Mountain	LBMM	California,U.S.A.	40.7328N	122.3658W	841	
Bassoo Peak	BSMT	Montana,U.S.A.	47.8513N	114.7870W	1950	
Bastrop	536A	Texas,U.S.A.	30.0756N	97.0652W	115	From 2010-01-14 to 2011-11-08
Bata	RHK2	Hungary	46.1270N	18.7799E	147	
Batagay	BTGS	Sakha,Russia	67.6510N	134.6400E	110	
Batakoyurt	BTKR	Severo-Osetinskaya,Russia	43.3722N	44.5422E	597	From 2005-12-01
Batan	BATAN	Costa Rica	10.0978N	83.3761W	54	
Bataraza	BATP	Palawan,Philippines	8.7970N	117.8010E	54	
Bat Cave Butte	BATC	California,U.S.A.	33.4590N	115.8410W	-18	
Batelco	BTP	Luzon,Philippines	14.6909N	120.5150E	32	
Bates	BT-OR	Oregon,U.S.A.	44.6244N	118.7711W	1372	
Bates	BT-	Oregon,U.S.A.	44.6244N	118.7711W	1372	
Bates Ranch, Gandy	P13A	Utah,U.S.A.	39.4550N	114.0156W	1555	From 2007-03-01 to 2008-09-05
Bath	O42A	Illinois,U.S.A.	40.1956N	90.0812W	155	From 2011-06-12 to 2013-05-02
Bath	BATH	England,United Kingdom	51.4430N	2.3290W	127	From 2009-07-14
Bath County 1	BV1	Virginia,U.S.A.	38.1781N	79.6611W	768	From 1978-08-01
Bath County 2	BV2	Virginia,U.S.A.	38.1367N	79.9194W	610	From 1978-08-01
Bath County 3	BV3	Virginia,U.S.A.	38.2383N	79.7667W	750	From 1978-08-01
Bath County 4	BV4	Virginia,U.S.A.	38.3572N	79.8278W	814	From 1978-08-01
Bath Hotel, Nevis	NVBH	Nevis,Saint Kitts and Nevis	17.1169N	62.6168W	15	From 2002-05-02
Bathurst New Brunswick	BATG	New Brunswick,Canada	47.2767N	66.0599W	336	From 2005-10-22
Batken	BTK	Kyrgyzstan	40.0580N	70.8180E	1020	
Batman	BTMN	Turkey	37.8911N	41.2701E	959	From 2003-10-02
Batman	BTMT	Turkey	38.1923N	41.4888E	854	
Batoke	BTE	Cameroon	4.0481N	9.0869E	90	From 1985-03-01
Batrach	BTCH	Syria	36.0375N	36.4592E	803	From 1995-04-01
Bat Shelomo	BTI	Israel	32.6140N	35.0160E	300	
Battle Mountain	BMN	Nevada,U.S.A.	40.4315N	117.2218W	1594	From 1969-09-02
Batumi	BATM	Georgia,Georgia	41.6040N	41.6936E	298	From 2010-10-11
Baubata	PGBAU	New Britain,Papua New Guinea	5.3674S	151.0334E	251	
Bau Bau	BBSI	Buton,Indonesia	5.4875S	122.5704E	104	From 2005-01-01
Bau Bau, Buton	BSSI	Buton,Indonesia	6.1428S	120.4904E	114	From 2008-12-01
Baumata	BWTI	Timor,Indonesia	10.2000S	123.7000E		
Baumata	BATI	Indonesia	10.2065S	123.6633E	356	
Bautismo	BAUT	Venezuela	10.5065N	66.4820W	1976	From 1984-01-01 to 1999-08-25
Ba Vi	BVV	Vietnam	21.1022N	105.3687E	182	
Bavra	BAW	Armenia	41.1200N	43.8000E	2160	From 1977-01-01
Bavra	BVRS	Armenia	41.1250N	43.8067E	2160	
Bawean	BWJI	Bawean,Indonesia	5.8511S	112.6578E	58	From 2005-01-01
Baw Faw Mountain	BFW	Washington,U.S.A.	46.4867N	123.2150W	902	From 1972-10-25
Bayana	BAYN	Nepal	29.4700N	81.2000E	3050	From 1995-01-01
Bayan-Aul	BAYK	Kazakhstan	50.8200N	75.5500E	0	
Bayanday	BAY	Irkutskaya Oblast',Russia	53.0667N	105.5170E		
Bayano	BYN	Panama	9.1910N	78.8750W	120	
Bayan-Olgiy	BYO	Mongolia	48.9600N	89.9600E	2075	
Bay Bridge East	BBEB	California,U.S.A.	37.8216N	122.3298W	-30	
Bay Bridge East Pier 17	E17B	California,U.S.A.	37.8209N	122.3353W	-164	
Bay Bridge East Pier 7	E07B	California,U.S.A.	37.8185N	122.3469W	-142	
Bay Bridge West Pier 2	W02B	California,U.S.A.	37.7911N	122.3863W	-45	
Bay Bridge West Pier 5	W05B	California,U.S.A.	37.8011N	122.3758W	0	
BAYBURT	BAYB	Turkey	40.2586N	40.2576E	2015	From 2012-01-27
Bayer	BYRJ	Jordan	30.6400N	36.5000E	1030	
Baylor University	BUTX	Texas,U.S.A.	31.6917N	97.3483W	183	From 1992-11-01
Bay Minette	448A	Alabama,U.S.A.	30.9309N	87.8608W	25	From 2011-04-07
Bayram-Ali	BAT	Turkmenistan	37.6000N	62.1167E		
Baytree	DCA2	Alberta,Canada	55.7916N	119.8877W	819	
Baza	EXBZ	Spain	37.4900N	2.7750W	881	
BB Station	BBSR	Bermuda	32.3712N	64.6962W	-25	
Beach Ranch, Enterprise	F10A	Oregon,U.S.A.	45.9734N	117.2277W	1136	From 2006-08-23 to 2009-01-08
Beacon	BEAC	Western Australia,Australia	30.4511S	117.8687E	300	From 2009-03-19
Beaesweiler	BA12	Nordrhein-Westfalen,Germany	50.9091N	6.1863E	116	From 2006-10-01
Bean Ranch, Sierra Blanca	325A	Texas,U.S.A.	31.3711N	104.9712W	1666	From 2008-02-25 to 2010-01-16
Bear Butte	KBBM	California,U.S.A.	40.1970N	123.8500W	576	
Bear Canyon	BCU	Utah,U.S.A.	39.5983N	110.3710W	2438	From 1962-01-01 to 1977-03-31
Bear Canyon	BCYI	Idaho,U.S.A.	44.3108N	113.4050W	2194	From 1992-01-01
Bear Creek Country Club, Murrieta	BCCC	California,U.S.A.	33.5751N	117.2612W	391	From 2000-07-11 to 2005-08-08
Bear Creek Road	LT15	California,U.S.A.	37.1603N	122.0260W	660	From 1969-05-21
Bear Creek Road	JBCM	California,U.S.A.	37.1603N	122.0260W	660	From 1969-05-21
Beardsley Farm, Havre	B18A	Montana,U.S.A.	48.3943N	109.7775W	950	From 2007-11-14 to 2009-09-04
Bear Gulch	JBGM	California,U.S.A.	37.3420N	122.3390W	158	From 1971-11-02
Bear Gulch	BGH	California,U.S.A.	37.3420N	122.3390W	158	From 1971-11-02
Bear Mountain	BMTC	California,U.S.A.	35.1358N	118.5970W	1237	From 1976-08-01 to 2008-02-22
Bear Mountains	BMNM	New Mexico,U.S.A.	34.2750N	107.2600W	1972	
Bear Paw Mtn.	BPAW	Alaska,U.S.A.	64.1002N	150.9848W	619	
Bear River Range	BEI	Idaho,U.S.A.	42.1167N	111.7820W	1859	From 1974-10-01
Bear Valley	BVLM	California,U.S.A.	36.5749N	121.1901W	479	From 1970-09-03
Bear Valley	BVL	California,U.S.A.	36.5749N	121.1901W	479	From 1970-09-03
Bear Valley Observatory	BVC	California,U.S.A.	38.0397N	122.7930W	30	
Bear Valley Ranch, Parkfield	PKD	California,U.S.A.	35.9452N	120.5416W	583	From 1996-09-06
Beas, Huelva	E009	Spain	37.4192N	6.7651W	148	From 2007-09-26 to 2009-06-23
Beatrice	O34A	Nebraska,U.S.A.	40.1831N	96.6936W	409	From 2010-06-11 to 2012-04-18
Beatrice	BENE	Nebraska,U.S.A.	40.2167N	96.6025W	396	
Beatty	BEA	Nevada,U.S.A.	36.8833N	116.7670W		From 1972-01-01 to 1973-04-30
Beatty	BTY	Nevada,U.S.A.	36.8833N	116.7670W	1183	From 1971-01-01 to 1973-04-30
Beattyville	S51A	Kentucky,U.S.A.	37.6392N	83.5935W	286	From 2012-05-17

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Beaufort West	BEW	Cape Province,South Africa	32.3565S	22.5730E	870	From 1993-04-01 to 2001-03-03
Beaumont Base	BBSC	California,U.S.A.	33.9214N	116.9806W	785	
Beaver	BHUT	Utah,U.S.A.	38.2768N	112.6404W	1799	From 2008-06-09
Beaver	BVR	Pennsylvania,U.S.A.	40.7000N	80.3333W		
Beaver Butte	VBEM	Oregon,U.S.A.	45.0603N	121.5870W	1544	
Beaver Creek	BVCY	Yukon Territory,Canada	62.4141N	140.8606W	708	From 2010-08-14
Beaver Creek Array Beam Reference Point	BCAR	Alaska,U.S.A.	63.0656N	141.7851W	846	
Beaver Creek Array Site 1	BC01	Alaska,U.S.A.	63.0619N	141.8279W	746	
Beaver Creek Array Site 2	BC02	Alaska,U.S.A.	63.0440N	141.8021W	563	
Beaver Creek Array Site 3	BCA3	Alaska,U.S.A.	63.0656N	141.7851W	846	From 1993-07-01
Beaver Creek Array Site 4	BC04	Alaska,U.S.A.	63.0809N	141.7684W	790	
Beaver Creek Array Site 5	BC05	Alaska,U.S.A.	63.0610N	141.7534W	908	
Beaver Dam Saddle, Pierce	E12A	Idaho,U.S.A.	46.4151N	115.5705W	1555	From 2007-08-23 to 2009-07-23
Beaver Lake	BVK	Utah,U.S.A.	38.5464N	113.1050W	1707	
Beaver Lake Mountains	BKU	Utah,U.S.A.	38.5352N	113.1270W	1859	From 1980-12-01 to 1988-09-29
Beaver Mountain	BEAW	Wyoming,U.S.A.	43.2509N	110.6130W	2960	From 1990-09-01
Bebedouro	BB16B	Sao Paulo,Brazil	21.0333S	48.5855W	527	From 2009-01-01
Bebedouro	BB19B	Sao Paulo,Brazil	21.0659S	48.5276W	574	
Bebedouro	BB19	Sao Paulo,Brazil	21.0663S	48.5277W	566	
Bebedouro	BEB22	Sao Paulo,Brazil	21.0540S	48.5040W	537	
Bebedouro13	BE13	Sao Paulo,Brazil	21.0486S	48.5645W	532	
Becancour	BECQ	Quebec,Canada	46.3449N	72.4829W	24	From 2012-03-07
Becerrea'	EXBE	Spain	42.8530N	7.1590W	675	
Bechler	YPBE	Wyoming,U.S.A.	44.1495N	111.0390W	1966	
Becho	BCHG	Georgia,Georgia	43.0332N	42.5784E	1345	From 1983-01-01
Beckley	BL-	West Virginia,U.S.A.	37.7989N	81.3100W	610	From 1961-12-13 to 1965-07-23
Beckley	BL-WV	West Virginia,U.S.A.	37.7989N	81.3100W	610	From 1961-12-13 to 1965-07-23
Beckworth	BEKR	California,U.S.A.	39.8666N	120.3596W	1743	From 1996-10-02
Beclabito	T19A	New Mexico,U.S.A.	36.8299N	109.0249W	1736	From 2007-06-22 to 2009-03-03
Becsehely	BEHE	Hungary	46.4702N	16.7755E	298	From 2005-03-26
Bedford	BD-	Pennsylvania,U.S.A.	40.1333N	78.5078W	366	From 1962-12-22 to 1963-03-21
Bedford	BD-PA	Pennsylvania,U.S.A.	40.1333N	78.5078W	366	From 1962-12-22 to 1963-03-21
Bedland, Calhan	Q25A	Colorado,U.S.A.	38.9145N	104.2472W	2001	From 2008-06-08 to 2010-05-04
Bedord North Lawrence Stars, Bedford	Q47A	Indiana,U.S.A.	38.9362N	86.4261W	230	From 2011-11-07
Beebe Ranch	NBRM	California,U.S.A.	38.2610N	122.5510W	106	From 1970-08-14 to 2011-11-26
Beebe Ranch	BBR	California,U.S.A.	38.2610N	122.5510W	106	From 1970-08-14 to 2011-11-26
Beebe Ranch Broadband	NBRB	California,U.S.A.	38.2602N	122.5518W	94	
Beecher Island, Eckley	O27A	Colorado,U.S.A.	40.1900N	102.4794W	1206	From 2008-12-07 to 2010-10-13
Beegum Peak	LBPM	California,U.S.A.	40.3183N	122.8810W	1051	
Beenleigh	BEEN	Queensland,Australia	27.7276S	153.1980E	130	
Beerwah State High School	AUBSH	Queensland,Australia	26.8600S	152.9500E	26	From 2013-08-11
Beeville	835A	Texas,U.S.A.	28.2870N	97.8297W	57	From 2009-12-21 to 2011-11-13
Beibei	PEH	Sichuan,China	29.8367N	106.4180E	213	
Beijing	BJI	Beijing,China	40.0403N	116.1750E	43	
Beijing	PEK	Beijing,China	40.0403N	116.1750E	43	
Beijing	BJI2	Beijing,China	40.1017N	116.0820E		From 1977-03-01 to 1977-06-30
Beinan	TWGBT	Taiwan region	22.8176N	121.0799E	195	From 1996-03-08
Beirut	BEYL	Lebanon	33.8717N	35.4932E	49	From 2006-07-01
Beja	PBEJ	Portugal	38.0264N	7.8664W	270	From 1995-06-01
Bekalta	BKLT	Tunisia	35.6186N	10.9965E	25	
Bekescsaba	BKE	Hungary	46.6125N	17.8930E	95	From 1987-01-01 to 1984-12-31
Belacker	BAF	Alsace,France	47.8347N	6.9953E	1000	From 1974-10-01
Belaya Gora	YBGR	Sakha,Russia	68.5317N	146.1927E	36	From 2011-08-12
Belbasi	BBTK	Turkey	39.8422N	32.7603E	1200	From 1986-01-01
Belbasi Array Beam Reference Point	BRAR	Turkey	39.8535N	32.7608E	1243	
Belbasi Array Site 1	BR01	Turkey	39.8417N	32.7601E	1286	
Belbasi Array Site 2	BR02	Turkey	39.8488N	32.7654E	1270	
Belbasi Array Site 3	BR03	Turkey	39.8334N	32.7656E	1259	
Belbasi Array Site 31	BR31	Turkey	39.8535N	32.7608E	1243	
Belbasi Array Site 4	BR04	Turkey	39.8409N	32.7413E	1265	
Belbasi Array Site 5	BR05	Turkey	39.8481N	32.7469E	1265	
Belbasi Array Site 6	BR06	Turkey	39.8533N	32.7483E	1210	
Belbasi Site	BR00	Turkey	39.8535N	32.7608E	1243	
Belchertown	QUA2	Massachusetts,U.S.A.	42.2789N	72.3525W	168	
Belem	BEB	Para,Brazil	1.4500S	48.4450W	15	From 1987-01-01
Belen	BLNT	Turkey	36.4880N	36.1880E	555	From 1997-03-01
Belene	RAZAM	Bulgaria	43.6451N	25.1243E	82	From 2012-11-20
Belfast (SA)	BFT	Transvaal,South Africa	25.6867S	30.0433E	1868	From 1986-01-01
Belfond	SLB	St Lucia	13.8275N	61.0412W	600	
Belgrade	BGNE	Nebraska,U.S.A.	41.4083N	98.1502W	573	From 2008-10-18
Belgrade	BGY	Serbia	44.8026N	20.5158E	250	From 1990-01-01
Belgrano 2	BELA	Coats Land	77.8750S	34.6269W	262	From 2009-01-16
Belica	BELI	FYR Macedonia	41.6828N	21.2739E	523	From 2004-01-01
Belie Skali	BLSS	Sakhalinskaya Oblast',Russia	46.8390N	142.3180E	62	
Belie Skalie	BSK4	Sakhalinskaya Oblast',Russia	46.8395N	142.3184E	60	From 1996-01-01
Bella	BEL3	Italy	40.7153N	15.6369E	758	
Bella Bella	BBB	British Columbia,Canada	52.1847N	128.1130W	14	From 1986-12-05
Bella Coola	BCBC	British Columbia,Canada	52.3720N	126.7550W	0	From 2007-12-06
Bellamira	BLLM	El Salvador	13.4425N	88.2378W	642	
Bellaria	BLLA	Italy	44.1429N	12.4703E	1	From 2009-01-15
Bellavista	BELL	Ecuador	0.1823S	78.4618W	2985	From 2010-07-09
Belle Mtn. Joshua Tree, Twentynine Palms	BELC	California,U.S.A.	34.0006N	115.9982W	1388	From 2001-03-15
Belle Prairie	BPIL	Illinois,U.S.A.	38.2019N	88.5919W	133	
Belleterre	BELQ	Quebec,Canada	47.3980N	78.6874W	355	From 2007-08-22
Belleview	BE-	Florida,U.S.A.	28.9053N	82.0644W	21	From 1965-10-07 to 1967-01-16
Belleview	BE-FL	Florida,U.S.A.	28.9053N	82.0644W	21	From 1965-10-07 to 1967-01-16
Belle View Chopil	DBCT	Dominica	15.2707N	61.3456W	527	From 1989-12-01
Belleville	BVIL	Illinois,U.S.A.	38.5136N	89.9240W	162	
Belleville	BV-PA	Pennsylvania,U.S.A.	40.6844N	77.6233W	244	From 1962-11-08 to 1962-12-12
Belleville	BV-	Pennsylvania,U.S.A.	40.6844N	77.6233W	244	From 1962-11-08 to 1962-12-12
Bellevue	BVM	Martinique,France	14.7350N	61.0630W	694	From 1972-05-01
Bellevue State Park	BVD	Delaware,U.S.A.	39.7747N	75.4994W	58	From 1985-02-01
Bellfield	BFD	Victoria,Australia	37.1761S	142.5440E	235	From 1972-10-16 to 2006-05-29
Bellingham	BLL	Washington,U.S.A.	48.7389N	122.4850W	96	From 1961-12-01 to 1969-12-31
Bell Mountain	BLM*	Nevada,U.S.A.	39.1536N	118.0917W	1951	From 1972-01-13 to 1975-07-31
Bell Site, White Sands Missile Range	123A	New Mexico,U.S.A.	32.6349N	106.2622W	1206	From 2008-05-14 to 2010-01-19
Bell Springs	KBSM	California,U.S.A.	39.9178N	123.5950W	1134	
Bellville	BLE	Cape Province,South Africa	33.9000S	18.6450E	78	
Belmond	K37A	Iowa,U.S.A.	42.7669N	93.6388W	365	From 2010-10-11 to 2012-10-23
Belmont	SVB	St Vincent,Saint Vincent and the Grenadines	13.2720N	61.2520W	282	From 1978-06-06
Belmont College, St. Clairsville	BTCO	Ohio,U.S.A.	40.0772N	80.9659W	372	
Belogorka	BGK	Kyrgyzstan	42.6250N	74.2360E	1450	
Belogorka 2	BGK2	Kyrgyzstan	42.6451N	74.2274E	1640	
Belogornoye	BELG	Saratovskaya Oblast'	52.3934N	47.6244E	0	From 2014-03-03
Belogradchik	BLKB	Bulgaria	43.6227N	22.6750E	650	From 2012-11-20
BELONIA	BELO	Tripura,India	23.2485N	91.4472E	20	From 2011-05-01
Belsk	BEL	Poland	51.8355N	20.7888E	173	From 1965-11-03
Belted Range	BLT	Nevada,U.S.A.	37.4825N	116.1260W	1882	From 1979-05-30 to 2002-10-10
Belton	X54A	South Carolina,U.S.A.	34.5474N	82.3743W	213	From 2013-02-14
Beluga	BLGA	Alaska,U.S.A.	61.1765N	151.0313W	20	
Belurgan, Co Louth	ILTH	Ireland	54.0279N	6.3362W	20	From 2011-12-12
Belvedere	BELV	Provence-Cote d'Azur,France	44.0160N	7.3190E	800	From 2004-03-17
Belvidere	W49A	Tennessee,U.S.A.	35.1194N	86.2645W	251	From 2012-04-18
Belvue	BEK	Kansas,U.S.A.	39.2632N	96.1997W	349	From 1977-09-15 to 2001-07-15
Belyy Ugol+	BEYR	Russia	44.0120N	42.8170E	660	
Belyy Yar	BYAR	Khanty-Mansi Autonomous Okrug,Russia	61.4167N	73.4000E	91	
Bemidji	BEM	Minnesota,U.S.A.	47.4889N	94.8683W	426	From 1981-07-07
Benavides	934A	Texas,U.S.A.	27.6018N	98.5192W	144	From 2009-12-20 to 2011-11-16
Bench	BEH	Alaska,U.S.A.	66.0150N	149.8120W		From 1985-03-01
Bend	CKT	Alaska,U.S.A.	61.2008N	152.2060W	1036	From 1992-09-17
Bend	BEND	Oregon,U.S.A.	44.0669N	121.3267W	1141	
Bend	I05A	Oregon,U.S.A.	44.1626N	121.2675W	1011	From 2004-07-21 to 2008-01-30
Benevento	BNV	Italy	41.1333N	14.3000E	154	
Bengkulu	BGI	Sumatera,Indonesia	3.6500S	102.5670E		
Beni-Abbes	BAB	Algeria	30.1214N	2.1861W		
Beniarda	EBEN	Spain	38.7038N	0.2250W	764	
Beniarda presa Alicante	EBEN2	Spain	38.6763N	0.1904W	420	From 2012-05-31
Benidorm	EXBN	Spain	38.5450N	0.1310W	45	
Beni Messoud	BMD	Morocco	35.7803N	5.6997W	396	

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Beni Rached	EBNR	Algeria	36.2905N 1.5302E	636	
Ben Lomond Mountain, Santa Cruz County	JBNB	California,U.S.A.	37.1232N 122.1567W	761	From 2008-05-23
Ben Lomond (Santa Cruz Mountains)	BNLO	California,U.S.A.	37.1311N 122.1729W	794	From 2005-04-20 to 2007-09-02
Bennet, Jal	227A	New Mexico,U.S.A.	32.0120N 103.2924W	879	From 2008-03-21 to 2010-02-15
Bennett Dam	BDBC	British Columbia,Canada	56.1742N 122.2820W	700	From 1985-10-01
Benn Knob	BENN	North Carolina,U.S.A.	35.5650N 81.6610W	878	From 1982-01-22 to 2008-02-13
Benoni	BNON	South Africa	26.1580S 28.3190E	1683	From 2010-03-01
Bensberg	BNS	Nordrhein-Westfalen,Germany	50.9639N 7.1756E	200	From 1954-04-01
Bensberg	BA09	Nordrhein-Westfalen,Germany	50.9638N 7.1755E	200	From 2006-10-01
Benson	G34A	Minnesota,U.S.A.	45.2419N 95.6380W	316	From 2010-09-16 to 2012-07-26
Benson Hill Elementary School	RBEN	Washington,U.S.A.	47.4348N 122.1862W		
Benson Ranch	BENWA	Washington,U.S.A.	46.5188N 119.7170W	335	
Benton	BENR	California,U.S.A.	37.7155N 118.5730W	2490	From 1983-07-29
Benton	T44A	Missouri,U.S.A.	37.0860N 89.5896W	133	From 2011-07-23 to 2013-03-19
Beograd	BEO	Serbia	44.8093N 20.4714E	129	From 1910-06-01
Beppu	BEP	Oita,Japan	33.2833N 131.4830E	75	
Beppuamama	JBEP	Kumamoto,Japan	33.3363N 131.4072E	434	From 2010-02-01
Beqa	BQA	Fiji	18.3786S 178.1350E	439	From 1979-10-01
Berane	BEY	Montenegro	42.8718N 19.8931E	996	From 1982-12-25
Berane	IVA	Montenegro	42.8718N 19.8931E	996	From 1982-12-25
Berat	BERA1	Albania	40.7082N 19.9455E	265	From 2013-10-18
Berati	BERA	Albania	40.7027N 19.9494E	100	
Berchikul'	BRCR	Kemerovskaya Oblast',Russia	55.6400N 88.3200E	350	
Berchtesgaden	BGLD	Bayern,Germany	47.6524N 13.0125E	930	From 1999-10-22
Berda	BERT	Tunisia	34.2410N 9.0118E	320	
Berdun	YBER	Spain	42.5810N 0.9182W	632	From 2010-05-01
Beregovo	BERU	Ukraine	48.2336N 22.6464E	140	From 2000-07-12
Bereket-Mersin	BERE	Turkey	36.3474N 33.2229E	1379	From 2011-07-01
Berezeni	BERR	Romania	46.3589N 28.1501E	66	From 2001-11-08
Berezniki	BRZS	Kazakhstan	49.9820N 72.6780E	497	From 2010-09-01
Berezovaya	BERS	Kamchatskaya Oblast',Russia	52.2700N 158.4330E	10	From 1981-01-01 to 1994-12-31
Bergen	BER	Norway	60.3838N 5.3339E	50	From 1994-06-28
Bergen	BRGNA	Alberta,Canada	51.6769N 114.7269W	1246	From 2013-10-29
Berg Farm, Melba	J10A	Idaho,U.S.A.	43.4275N 116.7670W	748	From 2006-11-29 to 2008-07-24
Berggiesshubel	BRG	Sachsen,Germany	50.8732N 13.9428E	260	
Bergheim	BEG	Nordrhein-Westfalen,Germany	50.9613N 6.6557E	-95	From 1975-05-01 to 1994-12-01
Bergheim	BGUS	Saskatchewan,Canada	52.1960N 106.3980W	594	From 1999-01-01 to 2002-12-01
Bergheim Laurentius Kirche	BD01	Nordrhein-Westfalen,Germany	50.9593N 6.6355E	78	From 2001-01-01
Berg Lake	BERG	Alaska,U.S.A.	60.3928N 143.7018W	474	
Bergtoll Ranch, Theony	A21A	Montana,U.S.A.	48.9912N 106.9254W	779	From 2008-09-17 to 2010-07-19
Bergwerk Schwarze Crux	CRUX	Thuringen,Germany	50.6030N 10.7921E	718	From 2012-06-01
Bering	BKI	Kamchatskaya Oblast',Russia	55.2040N 165.9720E	10	
Bering Glacier BLM Camp	BGLC	Alaska,U.S.A.	60.1210N 143.2821W	10	
Berja	EBER	Spain	36.8979N 2.8896W	1690	
Berkeley--Byerly	BKS	California,U.S.A.	37.8762N 122.2356W	243	From 1962-01-01
Berkeley--Haviland	BRK	California,U.S.A.	37.8735N 122.2610W	49	From 1887-01-01
Berland Lookout Tower, Alberta	BRLDA	Alberta	54.0920N 117.4038W	1223	From 2014-07-30
Berlin	BNH	New Hampshire,U.S.A.	44.5906N 71.2564W	472	From 1963-01-01 to 1999-01-31
Berlin	BR-PA	Pennsylvania,U.S.A.	39.9242N 78.8447W	665	From 1962-12-30 to 1965-07-23
Berlin	BRN	Berlin,Germany	52.4188N 13.2031E	45	From 1972-07-01
Berlin--Free University	BRL	Berlin,Germany	52.4715N 13.2904E	-68	From 1970-01-01
Berlin--Lankwitz	BRNL	Berlin,Germany	52.4278N 13.3580E	42	From 1991-04-06
Berlin (NY)	BERL	New York,U.S.A.	42.6913N 73.3913W	549	
Berlin (Penn)	BR-	Pennsylvania,U.S.A.	39.9242N 78.8447W	665	From 1962-12-30 to 1965-07-23
Bermuda--Columbia	BEC	Bermuda	32.3794N 64.6811W	41	From 1939-02-03
BERMUDA INFRASONIC ARRAY REFERENCE POINTGB		Bermuda	32.3615N 64.6987W	-35	From 2008-11-10
Bermuda-Navy	BEN	Bermuda	32.2697N 64.8536W		
Bernadia	BERI	Italy	46.2367N 13.2433E	640	From 1977-05-06
Bernadia	BAD	Italy	46.2367N 13.2433E	640	From 1977-05-06
Bernardo	X22A	New Mexico,U.S.A.	34.5058N 107.0102W	1604	From 2008-01-10 to 2009-12-02
Bernardo	BDNM	New Mexico,U.S.A.	34.4960N 106.9130W	1505	From 1990-01-01
Bernie	BRNM	Missouri,U.S.A.	36.7236N 89.9978W	103	
Bernie	BRM	Missouri,U.S.A.	36.6333N 90.0597W	109	From 1969-01-01 to 1973-12-31
Bernies	BRNS	Egypt	23.8559N 34.1143E	332	
Berninapass	BERNI	Switzerland	46.4132N 10.0221E	2310	From 1998-08-01
Bern, Kleine Schanze	SBERN	Switzerland	46.9458N 7.4395E	544	From 2012-11-01
Bernov	BERN	Czech Republic	50.2321N 12.5117E	635	
Berrybush	BYB	Wales,United Kingdom	51.8994N 5.0958W	0	
Berryessa Peak	NBPM	California,U.S.A.	38.6678N 122.1930W	67	From 1974-05-10
Berryman	BRR	Missouri,U.S.A.	37.9533N 91.1750W	250	From 1960-01-01 to 1962-12-31
Ber_school_1	RORSS	Norway	64.8702N 11.2340E	0	From 2000-01-01
Ber_school_2	MELSS	Norway	66.8637N 13.7233E	29	From 2000-01-01
Bertagne	BERF	Provence-Cote d'Azur,France	43.3130N 5.6907E	1030	
Bertell Ranch	BRTC	California,U.S.A.	34.6115N 117.9630W	789	
Bertha Hill	BHI	Idaho,U.S.A.	46.7640N 115.7920W	1652	From 1971-10-01 to 1976-01-14
Berwen	BWZ	South Island,New Zealand	44.5301S 169.8831E	490	From 1991-01-20
Besancon	BES	Franche Comte,France	47.2497N 5.9875E	311	From 1950-01-01
Besboro Island	BBO	Alaska,U.S.A.	64.1212N 161.3050W	244	
Besenysz¯¶g	BSZH	Hungary	47.2996N 20.2670E	82	From 2013-09-11
Besham	BSM1	Pakistan	34.9030N 72.8610E	608	From 2012-01-01
Besiri	BEST	Turkey	37.8911N 41.2700E	959	From 2003-10-02 to 2013-02-01
Besmoynak	BMNS	Kazakhstan	43.1080N 75.6690E	1624	From 2004-05-18 to 2012-06-30
Bessie Mountain	BESE	Alaska,U.S.A.	58.5796N 134.8543W	870	
Betania	BETC	Colombia	2.6813N 75.4413W	540	From 1994-01-01
Bet Guvrin	GVI	Israel	31.6320N 34.9090E	390	From 1983-04-01 to 1999-08-25
Bethany	BETM	Missouri,U.S.A.	36.6119N 90.0593W	129	
Betharram	BTH	Aquitaine,France	43.1231N 0.2069W	325	From 1986-08-01 to 1995-12-31
Bethel	BQ-AK	Alaska,U.S.A.	60.7789N 161.8836W	46	
Bethel	BETH	Kentucky,U.S.A.	38.2467N 83.8531W	278	From 1980-10-26 to 1999-08-25
Bethel	MBET	Montserrat	16.7414N 62.1631W	350	From 1989-07-01
Bethel	BET	Alaska,U.S.A.	60.8078N 161.7720W		
Bethel	BHO	Oklahoma,U.S.A.	34.3808N 94.8673W	143	From 1981-03-30 to 1987-10-15
Bethesda, Antigua	ANBD	Antigua	17.0480N 61.7650W	26	From 2014-09-18
Bethesda--National Naval Medical Center	NHB	Maryland,U.S.A.	39.0016N 77.0837W	91	From 1962-01-01 to 1972-12-31
Betijoque	BETV	Venezuela	9.3795N 70.6730W	638	
Bet Lehem HaGelilit	BLGI	Israel	32.7334N 35.1913E	190	From 2007-11-19
Bet Oren	BRNI	Israel	32.7200N 34.9900E	400	From 1991-12-01
Bettingen Gewerbehaus	SBEG	Switzerland	47.5709N 7.6645E	377	From 2012-03-12
Betulia, Santander	BTLC	Colombia	6.9185N 73.2677W	1874	From 2009-09-01 to 2011-11-30
Beuda	CBEU	Spain	42.2567N 2.6769E	824	From 2007-05-01
Beulah	H45A	Michigan,U.S.A.	44.6232N 86.0440W	242	From 2012-11-09
Beulah Township	D49A	Ontario,Canada	47.2726N 81.3562W	416	From 2012-10-31
Beuren	BEU	Baden-Wurttemberg,Germany	48.5838N 9.4153E	443	From 1973-01-01 to 2002-03-08
Beverley	BEV	Jamaica	18.4517N 77.3000W	123	
Beverly	BVW	Washington,U.S.A.	46.8110N 119.8823W	670	
Beverly Hills	BVH	California,U.S.A.	34.0762N 118.3959W	39	
Beykoz	BEYT	Turkey	41.1590N 29.2910E	153	
Beylaqan	BLQ	Azerbaijan	39.7210N 47.5590E	300	From 2013-10-10
Bezymyanka	BZMS	Kamchatskaya Oblast',Russia	55.5620N 160.3850E	1486	
Bezymyannaya	BZMR	Kamchatskaya Oblast',Russia	55.9350N 160.4900E	1450	From 2006-08-01
Bezymyannyi-Griva	BZGR	Kamchatskaya Oblast',Russia	55.9400N 160.6960E	1152	From 2007-08-23
Bezymyannyi-West	BZWR	Kamchatskaya Oblast',Russia	55.9640N 160.4960E	1624	From 2007-08-23
Bhachau	BHAC	Gujarat,India	23.2800N 70.3400E	14	From 2012-01-01
Bhadarwah	BDGH	Jammu and Kashmir	32.9825N 75.7115E	1620	
Bhadarwah	BDRWA	Jammu and Kashmir	32.9618N 75.7235E	1732	
Bhakra	BHK	Punjab,India	31.4167N 76.4167E	410	From 1965-02-15
Bhandari	BHDI	Nagaland,India	26.2800N 94.1492E	700	
Bhannes	BHL	Lebanon	33.9042N 35.6542E	1000	From 1980-05-01
Bharisain	BHAR	Himachal Pradesh,India	30.0946N 79.2658E	2262	From 2012-01-01
Bharudia	BHRD	Gujarat,India	23.3060N 70.2427E	45	From 2012-01-01
Bhatsa	BHAT	Maharashtra,India	19.5196N 73.4020E	0	From 1983-07-01
Bhavnagar	BHV	Gujarat,India	21.7500N 72.1433E	7	From 2002-07-16
BHIKNUR	BNR	Andhra Pradesh,India	18.2325N 78.3932E	460	From 2000-01-01
Bhopal	BHPL	Madhya Pradesh,India	23.2410N 77.4245E	520	
Bhubaneshwar	BWNR	Orissa,India	20.2955N 85.8058E		
Bhuj	BHJ	Gujarat,India	23.2540N 69.6540E	80	From 1980-04-01
Bhuj	BHUJ	Gujarat,India	23.2540N 69.6540E		
Bhumibol Dam	BDT	Thailand	17.2443N 99.0030E	154	From 1976-01-01
Biak	BAKI	Irian Jaya,Indonesia	1.1914S 136.1070E	89	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Bialla	BIAL	New Britain,Papua New Guinea	5.3100S	151.0520E	160	From 1985-05-13
Bibbiana	BIBN	Italy	44.1320N	11.5130E	711	From 2005-04-23
Bibli¨¡n	BIBL	Ecuador	2.7600S	78.8880W	3073	From 2012-09-20
Biblis	WBH	Hessen,Germany	49.7047N	8.4151E	85	From 2004-09-17
B. Ibn Batouta	BIT	Morocco	35.6481N	5.7289W	60	
Bicaz	BIZ	Romania	46.9392N	26.1042E	410	
Biccari - m.te Cornacchia	MOCO	Italy	41.3700N	15.1580E	1049	From 2005-08-03
Bickleton	BLTW	Washington,U.S.A.	45.9150N	120.1770W	659	
Bidbid	BIDO	Oman	23.5211N	58.1269E	200	From 2001-07-01
Biddle	G23A	Montana,U.S.A.	45.2012N	105.3907W	1064	From 2008-11-23 to 2010-08-13
Bidston	BID	England,United Kingdom	53.4000N	3.0667W	60	
Bidwell	Q52A	Ohio,U.S.A.	38.9622N	82.2669W	228	From 2012-08-26
Bieber	WBG	Hessen,Germany	50.1716N	9.3459E	310	From 2003-12-15
Biel, Kongresshaus, BE	SBIK	Switzerland	47.1344N	7.2470E	430	From 2014-11-11
Bielow Farm, Ricketts	L35A	Iowa,U.S.A.	42.1123N	95.5448W	410	From 2010-06-07 to 2012-04-26
Bielsa	EBIE	Spain	42.6862N	0.1428E	2130	
Bielsko-Biala	MIKI	Poland	49.7884N	19.0603E	358	From 2005-06-15
Big Bar	N02C	California,U.S.A.	40.8220N	123.3057W	717	From 2005-06-29 to 2007-11-19
Big Bay de Noc Black Bears, Cooks	F44A	Michigan,U.S.A.	45.9737N	86.4226W	234	From 2011-09-18 to 2013-06-11
Big Bear	BBC	California,U.S.A.	34.2417N	116.9080W	2060	From 1951-06-21 to 1957-09-20
Big Bear Solar Observatory, Big Bear Lake	BBRC	California,U.S.A.	34.2623N	116.9207W	2069	From 2000-06-14
Big Bend	BBI	Idaho,U.S.A.	44.1762N	111.4290W	1950	From 1974-06-01 to 1980-07-24
Big Bend	BBM	Montana,U.S.A.	48.3764N	115.3280W	719	From 1971-02-01 to 1974-07-09
Big Bend Ranch, Presidio	626A	Texas,U.S.A.	29.5540N	104.1335W	979	From 2008-03-09 to 2010-02-07
Big Butte	BGB	Nevada,U.S.A.	37.0402N	116.2278W	1706	From 1979-01-23 to 2002-10-10
Big Chuckawalla Mtns, Desert Center	BC3	California,U.S.A.	33.6551N	115.4537W	1137	From 1991-05-08
Big Chuckwalla Mountains 2	BC2	California,U.S.A.	33.6570N	115.4612W	1185	From 1974-11-01 to 2008-02-22
Big Creek	BGN	Nevada,U.S.A.	41.6761N	118.5970W	1527	From 1974-03-01 to 1975-08-31
Big Creek Baldy	BCB	Montana,U.S.A.	48.6351N	115.5450W	1756	From 1972-07-02 to 1976-10-04
Big Creek Wildlife, Hattiesburg	346A	Mississippi,U.S.A.	31.3876N	89.4649W	91	From 2011-03-18
Big Creek, Yellow Pine	G12A	Idaho,U.S.A.	45.1285N	115.3257W	1780	From 2007-07-29 to 2009-07-25
Big Darby	GBDM	California,U.S.A.	39.4420N	123.3090W	655	
Big Dutch Hollow	BDU	Utah,U.S.A.	40.8742N	111.5340W	2198	From 1974-09-01 to 1989-04-24
Bigfork	BFM	Montana,U.S.A.	48.0672N	114.1000W	914	
Big Grassy Butte	GBI	Idaho,U.S.A.	43.9875N	112.0630W	1561	
Big Grassy Mountain	BGU	Utah,U.S.A.	40.9254N	113.0299W	1608	
Big Gulch	LBGM	California,U.S.A.	40.8023N	122.5897W	884	
Big Hill	BLW	North Island,New Zealand	41.3670S	175.4749E	340	From 1979-06-29 to 2004-06-08
Big Hole Peak	BHMT	Montana,U.S.A.	47.5825N	115.0370W	1628	
Big Horn, Sheridan	H21A	Wyoming,U.S.A.	44.6277N	107.0423W	1411	From 2008-07-25 to 2010-09-08
Big Horse Ranch, Ione	R04C	California,U.S.A.	38.2571N	120.9363W	115	From 2004-12-08 to 2007-12-04
Big Koniuji Island	BKJ	Alaska,U.S.A.	55.1567N	159.5590W	146	
Big Lost River	LRI	Idaho,U.S.A.	43.5283N	112.9480W	1509	From 1971-12-01 to 1999-08-25
Big Maria Mountains	BMM	California,U.S.A.	33.7567N	114.5860W	564	From 1974-04-01 to 1976-10-31
Big Mountain	BGM	Alaska,U.S.A.	59.3927N	155.2290W	625	From 1979-02-21
Big Mountain	BIG	Alaska,U.S.A.	59.3889N	155.2170W	567	From 1972-07-31 to 1978-09-08
Big Mountain	BBGM	California,U.S.A.	36.5780N	121.0392W	1065	From 1972-02-03 to 2011-11-26
Big Mountain Broadband	BBGB	California,U.S.A.	36.5785N	121.0396W	1089	
Big Muddy Lake	BMS	Saskatchewan,Canada	49.2117N	104.7930W	700	From 1977-07-11
Bigot	BIM	Martinique,France	14.5170N	61.0708W	425	From 1972-01-01
Big Rock Lookout	BROR	Oregon,U.S.A.	44.2674N	122.4520W	135	
Big Springs	BSPT	Tennessee,U.S.A.	35.7260N	84.1090W	334	From 1983-11-01
Big Stone Gap	BI-VA	Virginia,U.S.A.	36.8458N	82.7069W	549	From 1962-11-07 to 1962-12-12
Big Stone Gap	BI-	Virginia,U.S.A.	36.8458N	82.7069W	549	From 1962-11-07 to 1962-12-12
Bigte	NZB	Luzon,Philippines	14.8630N	121.1010E	227	
Big Timber	F18A	Montana,U.S.A.	45.9046N	109.7158W	1291	From 2007-09-18 to 2009-09-12
Big Trails, Ten Sleep	I21A	Wyoming,U.S.A.	43.8122N	107.2920W	1639	From 2008-07-29 to 2010-09-13
Biharamulo	BIHA	Tanzania,United Republic of Tanzania	2.6378S	31.3162E	1433	
Bijagual	LAJ	Costa Rica	9.8637N	84.1213W	1650	
Bijeljina	BLJ	Bosnia and Herzegovina	44.7830N	19.2670E	94	From 2002-07-05
Bilaspur	BLSP	Madhya Pradesh,India	22.1291N	82.1319E	398	
Bilaspur	BLPI	Madhya Pradesh,India	22.0833N	82.4167E	85	
Bila Voda	BVOC	Czech Republic	50.4338N	16.8908E	400	From 2012-02-14
Bilecik/Merkez-Dede RL	BILE	Turkey	40.1615N	29.8750E	999	
Bilibino	BILL	Magadanskaya Oblast',Russia	68.0389N	166.2711E	299	
Bilibino, Chukotka	BILI	Magadanskaya Oblast',Russia	68.0580N	166.4490E	283	From 1981-08-01 to 1992-04-30
Billerbeck	NE35	Nordrhein-Westfalen,Germany	51.9720N	7.3480E	166	
Billings	F20A	Montana,U.S.A.	45.8006N	108.1488W	1194	From 2008-07-23 to 2010-08-13
Billings	BS-MA	Montana,U.S.A.	45.7322N	108.8922W	1219	
Bima	BMNI	Sumba,Indonesia	8.5400S	118.6926E	63	From 2005-01-01
Bindweide	BIW	Rheinland-Pfalz,Germany	50.7308N	7.8373E	360	
Bingham Canyon	BIU	Utah,U.S.A.	40.5131N	112.1360W	2244	
Binghamton	BING	New York,U.S.A.	42.0757N	75.9767W	408	From 1978-10-18 to 1986-09-30
Binghamton	BINY	New York,U.S.A.	42.1993N	75.9861W	498	From 1993-08-17
Binghamton	BNY	New York,U.S.A.	42.0896N	75.9708W	291	From 1970-08-01
Bingley Moor	BMY	England,United Kingdom	53.8698N	1.8185W	235	
Bingol	BGOL	Turkey	38.9882N	40.6711E	1166	From 2011-01-07
Bingol	BINT	Turkey	38.8758N	40.4890E	1342	From 1997-08-21
BINGOL	BNGL	Turkey	38.9521N	41.1499E	1968	From 2005-07-11
Bing¶l	BNGB	Turkey	38.9913N	40.6790E	1180	From 2008-11-21
Bing¶l/Solhan-Merkez	SLHN	Turkey	38.9572N	41.0239E	1373	From 2014-12-02
Binningen	SBIS2	Switzerland	47.4511N	7.5835E	315	From 2008-12-01
Binsa	BIN	Democratic Republic of the Congo	4.3667S	15.2500E	450	From 1966-01-01 to 1999-08-25
Bintulu	BTM	Sarawak,Malaysia	3.2000N	113.0833E	156	
Biorka	BIO	Alaska,U.S.A.	56.8517N	135.5580W	61	From 1967-06-08 to 1970-05-31
Bi'r al Bayda'	BIDS	Saudi Arabia	26.8669N	36.9575E	200	
Biratnagar	BIRA	Nepal	26.4840N	87.2670E	12	From 2001-10-19 to 2002-10-30
Biratori	JBT	Hidaka,Japan	42.5898N	142.1337E	100	From 1995-04-01
Biratori 2	JBT2	Hidaka,Japan	42.7783N	142.3637E	170	
Birch Creek	BCKR	California,U.S.A.	37.6975N	118.3720W	1634	From 1984-09-13
Birch Farm	BFZ	North Island,New Zealand	40.6817S	176.2463E	283	From 1996-04-03
Birchfield Mountain	BFMT	Tennessee,U.S.A.	35.4880N	84.2270W	329	From 1983-11-09
Birch Hill	BRH	Alaska,U.S.A.	64.8648N	147.6400W	330	From 1970-07-09 to 1972-08-10
Bird Springs	WBSM	California,U.S.A.	35.5370N	118.1390W	1932	
Birdtown, Kershaw	BIRD	South Carolina,U.S.A.	34.6450N	80.4615W	131	
Birjand	BIRU	Iran	32.9000N	59.2000E	0	
Birlad	BIR	Romania	46.2664N	27.6264E	225	From 1979-01-01
Birley Grange	KBI1	England,United Kingdom	53.2543N	1.5279W	272	From 1988-01-01
Bir Mashi	BMSH	Saudi Arabia	28.8139N	34.8389E	50	From 1993-07-01
Birney	G22A	Montana,U.S.A.	45.2189N	106.2924W	1203	From 2008-11-22 to 2010-08-10
Birongo	BIRV	Venezuela	10.4756N	66.2693W	200	
Birsfelden, Friedhof	SBIF2	Switzerland	47.5543N	7.6278E	257	From 2014-08-15
Bi'r Shalatayn	HSHL	Egypt	23.1067N	35.3999E	155	
Bisaccia	BSC3	Italy	41.0120N	15.3852E	980	
Bisbee	318A	Arizona,U.S.A.	31.4390N	109.9907W	1576	From 2007-03-07 to 2009-01-20
Biscoitos	PBIS	Azores,Portugal	38.7613N	27.2527W	435	From 2003-03-01
Bishah	BISH	Saudi Arabia	20.0010N	42.5990E	800	From 1991-05-01
Bishkek	FRU	Kyrgyzstan	42.8333N	74.6167E	655	
Bishkek	FRU1	Kyrgyzstan	42.8100N	74.6300E	929	From 2010-06-30
Bishop	BP-CL	California,U.S.A.	37.3600N	118.6903W	2317	From 1963-04-16 to 1963-07-18
Bishop	BP-	California,U.S.A.	37.3600N	118.6903W	2317	From 1963-04-16 to 1963-07-18
Bishop	BHPR	California,U.S.A.	37.2995N	118.4870W	2171	From 1984-08-10
Bishop Farm, Joseph	G10A	Oregon,U.S.A.	45.2925N	117.1204W	1527	From 2006-08-24 to 2008-07-18
Bishrakh	BISR	Uttar Pradesh,India	28.5710N	77.4390E	0	
Bislig	BIP	Mindanao,Philippines	8.2250N	126.2500E	200	
Bislig	BIPH	Mindanao,Philippines	8.1840N	126.3610E	44	
Bismark Peak	BIS	Nevada,U.S.A.	39.1238N	119.6750W	1786	From 1978-03-01
Bisoca	BISRR	Romania	45.5481N	26.7099E	866	From 2012-12-06
BISOCA	BISC	Romania	45.5402N	26.6874E	950	From 2005-08-10
Bistriski jarek	BISS	Slovenia	46.6478N	15.1271E	480	From 1996-12-01
Bisya	BSY	Oman	22.7446N	57.1995E	450	From 2001-07-01
Bisya	BSYO	Oman	22.7310N	57.2402E	350	From 1998-05-26 to 2000-12-31
Bitlis	BTLK	Turkey	38.4070N	42.1060E	1545	
BITLIS_Adilcevaz	ADCV	Turkey	38.8080N	42.7245E	1774	From 2011-11-01
Bitlis-Merkez	BLIS	Turkey	38.4146N	42.1152E	1608	From 2013-03-21
Bitola	BIA	FYR Macedonia	41.0194N	21.3239E	720	From 1994-09-17
Bitter Crk WRge	BCW	California,U.S.A.	34.9401N	119.4131W	1101	
Bitterwater Creek	PBWM	California,U.S.A.	36.3150N	120.9290W	381	From 1972-01-27
Bitterwater Creek	BTW	California,U.S.A.	36.3150N	120.9290W	381	From 1972-01-27

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Bitterwater Pump Station	PBPM	California,U.S.A.	35.5791N	120.0775W	569	
Bixby	BIX	Oklahoma,U.S.A.	35.9780N	95.8461W	195	From 1990-08-01
Bjarnastaoir	IBJA	Iceland	63.9460N	21.3030W	57	From 1989-08-15
Bjornoya	BJO	Norway	74.5055N	19.1883E	18	
Bjornoya	BJO1	Norway	74.5020N	18.9990E	18	From 1994-08-25
Bjuv	BJUU	Sweden	56.0740N	13.0230E	100	From 2008-08-25
Black Birch	BBW	South Island,New Zealand	41.7108S	173.8785E	250	From 1991-11-27 to 2004-03-22
Blackbirch Station	BSWZ	North Island,New Zealand	41.7149S	173.8758E	277	From 2003-12-09
Blackbird State Forest	BBD	Delaware,U.S.A.	39.3461N	75.6767W	18	From 1977-01-01 to 1999-01-31
Blackburn lab bldg12	OTBB	Ontario,Canada	45.4068N	75.5548W	76	From 2002-05-23
Black Butte	BLK	Montana,U.S.A.	48.8547N	115.1180W	969	From 1971-02-07 to 1976-10-04
Black Butte	YPBB	Idaho,U.S.A.	45.0288N	111.1168W	2085	
Black Butte	BBN	New Mexico,U.S.A.	34.4078N	106.7460W	1524	From 1970-02-15 to 1971-12-18
Black Canyon	BLCC	California,U.S.A.	34.2436N	118.6731W	607	
Black Canyon North	BCHM	California,U.S.A.	36.0543N	117.7280W	1265	From 1975-09-26
Black Crater	BKCOR	Oregon,U.S.A.	44.2994N	121.6960W	1208	
Black Diamond Mines Park, Antioch	BDM	California,U.S.A.	37.9540N	121.8655W	219	From 1998-11-12
Blackfoot	J15A	Idaho,U.S.A.	43.3998N	112.4334W	1497	From 2007-08-09 to 2009-05-09
Black Forest	BFO	Baden-Wurttemberg,Germany	48.3301N	8.3296E	589	From 1974-10-01
Black Fox Mountain	LBFM	California,U.S.A.	41.3470N	121.8900W	1982	
Black Gap, Marathon	628A	Texas,U.S.A.	29.4862N	102.8885W	655	From 2008-03-05 to 2010-02-10
Black Gap (USAF), Gila Bend	114A	Arizona,U.S.A.	32.7513N	112.8830W	279	From 2008-02-05 to 2009-02-18
Black Hill	BLHA	Alaska,U.S.A.	55.7029N	162.0672W	378	From 1996-07-01
Black Hill	EBH	Scotland,United Kingdom	56.2481N	3.5081W	375	From 1969-01-01
Black Hills	RSSD	South Dakota,U.S.A.	44.1212N	104.0359W	2090	From 1981-08-10
Black Hill Station	BHHZ	North Island,New Zealand	39.4893S	176.0630E	776	From 2008-06-12
Black Mountain	BMRR	California,U.S.A.	40.1087N	120.2910W	2146	
Black Mountain	BLDC	California,U.S.A.	35.5338N	120.9067W	457	
Black Mountain	JBMM	California,U.S.A.	37.3182N	122.1530W	820	From 1975-02-24
Black Mountain	BLKC	California,U.S.A.	35.0880N	117.2190W	648	
Black Mountain	BMT*	Nevada,U.S.A.	37.2836N	116.5336W	1920	
Black Mountain	BMTN	Nevada,U.S.A.	37.2913N	116.6380W	2073	From 1983-04-15 to 2002-10-10
Black Mountain	BMUT	Utah,U.S.A.	41.9582N	111.2340W	2243	From 1979-10-01
Black Mountain, Craig	N21A	Colorado,U.S.A.	40.7600N	107.5196W	2235	From 2007-11-09 to 2009-10-23
Blacknest	BKN	England,United Kingdom	51.3642N	1.1869W	107	From 1973-02-22
Black Oak	GBOM	California,U.S.A.	38.8243N	122.8430W	879	From 1975-06-20
Black Peak	BPK	Arizona,U.S.A.	34.1247N	114.2100W	504	From 1974-04-01 to 1976-11-09
Black Pine Ridge	BPMT	Montana,U.S.A.	46.4375N	113.4463W	2408	
Black Rapids	BLR	Alaska,U.S.A.	63.5017N	145.8450W	809	From 1965-03-01 to 1999-08-25
Black Ridge (BLM), Bullfrog Basin	S17A	Utah,U.S.A.	37.6354N	110.8018W	1373	From 2007-07-28 to 2009-03-13
Black River	BRJ	Jamaica	18.0333N	77.8683W	8	From 1961-11-05 to 1964-03-07
Black Rk. Forest	BRNY	New York,U.S.A.	41.4140N	74.0119W	282	
Blackrock camp	BLAC	California,U.S.A.	34.0695N	116.3890W	1243	
Black Rock Valley	BRVW	Washington,U.S.A.	46.4853N	119.9912W	920	
Blacksburg	BLA	Virginia,U.S.A.	37.2113N	80.4205W	634	From 1962-09-04
Blacksburg	BAV	Virginia,U.S.A.	37.2221N	80.4250W	622	From 1973-09-01 to 2004-09-30
Blackshear	356A	Georgia,U.S.A.	31.3247N	82.1275W	36	From 2012-03-15
Black Stump Fm	BKZ	North Island,New Zealand	39.1657S	176.4926E	706	From 2004-02-11
Blacktail Mountain	BLMT	Montana,U.S.A.	48.0108N	114.3633W	2052	
Blakely	352A	Georgia,U.S.A.	31.4793N	84.9274W	101	From 2012-03-07
Blanch	U57A	North Carolina,U.S.A.	36.4319N	79.3364W	178	From 2013-04-21
Blanchard Fire Station	MBFM	California,U.S.A.	37.6785N	120.3630W	309	From 1976-11-03
Blanco	534A	Texas,U.S.A.	30.0284N	98.4753W	461	From 2009-11-06 to 2011-10-05
Blanding	BX-UT	Utah,U.S.A.	37.5633N	109.4347W	1707	From 1963-08-08 to 1964-03-18
Blanding	BX-	Utah,U.S.A.	37.5633N	109.4347W	1707	From 1963-08-08 to 1964-03-18
Blasjo	BLS5	Norway	59.4229N	6.4560E	540	From 1994-06-20
Blasjo	BLS	Norway	59.3900N	6.4490E	1170	From 1985-01-01 to 2003-04-05
Blasjo	BLS1	Norway	59.3910N	6.8270E	1160	From 1986-10-01 to 1991-01-10
Blasjo	BLS3	Norway	59.4250N	6.5150E	1130	From 1986-10-01 to 1991-01-10
Blasjo	BLS2	Norway	59.2940N	6.9270E	1190	From 1986-10-01 to 1991-01-10
Bleialf	BLI	Rheinland-Pfalz,Germany	50.2323N	6.2877E	468	
Blekinge	BLEU	Sweden	56.3040N	15.8145E	90	From 2002-11-05
Blewett	BW-	Washington,U.S.A.	47.3803N	120.6533W	884	
Blewett	BW-WA	Washington,U.S.A.	47.3803N	120.6533W	884	
Blindstream Canyon, Hanna	BSUT	Utah,U.S.A.	40.5365N	110.7612W	3211	From 2012-09-19
Blockade Glacier	BKG	Alaska,U.S.A.	61.0702N	152.2630W	1009	From 1991-07-01
Bloemfontein	BLF	Orange Free State,South Africa	29.1089S	26.1881E	1420	
Bloom-Carroll	BCSO	Ohio,U.S.A.	39.7940N	82.6980W	256	
Bloomer Hill	OBHM	California,U.S.A.	39.6517N	121.4620W	914	From 1975-09-06
Bloomfield	BY-IO	Iowa,U.S.A.	40.7692N	92.4525W	259	
Bloomington	BLO	Indiana,U.S.A.	39.1719N	86.5222W	246	From 1961-12-01
Bloomsburg	BB-PA	Pennsylvania,U.S.A.	41.1822N	76.5519W	305	From 1962-08-16 to 1962-10-05
Bloomsburg	BB-	Pennsylvania,U.S.A.	41.1822N	76.5519W	305	From 1962-08-16 to 1962-10-05
Blossom Village, Little Cayman	LCCY	Cayman Islands	19.6676N	80.0821W	5	From 2011-01-01
Blount Mountain	Y49A	Alabama,U.S.A.	33.8577N	86.4119W	362	From 2011-12-18
Blowhard Mountain	BHU	Utah,U.S.A.	37.5925N	112.8570W	3230	
Blowhole	BHT	Tennessee,U.S.A.	35.8470N	84.9450W	826	From 1981-10-23
Blue Bank Bayou	BBTN	Tennessee,U.S.A.	36.3870N	89.4570W	88	
Blue Knob State Park, Imler	O56A	Pennsylvania,U.S.A.	40.2683N	78.5663W	684	From 2010-11-05
Blue Mesa, Paradox Valley	PV22	Colorado,U.S.A.	38.5352N	108.7873W	1925	
Blue Mountain	BLM	Alaska,U.S.A.	58.0467N	156.3370W	550	From 1975-01-01
Blue Mountain	BMT	Alaska,U.S.A.	58.0467N	156.3370W	550	From 1975-01-01
Blue Mountain Lake	BML	New York,U.S.A.	43.8680N	74.4020W	305	From 1971-09-01 to 1973-10-31
Blue Mountains Array	BMO	Oregon,U.S.A.	44.8525N	117.3060W	1154	From 1962-01-01
Bluenose Ridge	KBNM	California,U.S.A.	39.8927N	123.1940W	1363	From 1979-11-09
Blue Ridge	BRDG	Arizona,U.S.A.	34.6260N	111.1760W	2057	From 1991-01-01
Blue Ridge	Z36A	Texas,U.S.A.	33.2702N	96.4344W	187	From 2010-06-06 to 2012-01-21
Blue Ridge	BLU	California,U.S.A.	34.4053N	117.7250W	1880	From 1975-02-01 to 2008-02-22
Blue Ridge Broadcasting Company	BRBC	North Carolina,U.S.A.	35.7390N	82.2860W	1976	From 1982-05-26 to 2008-02-13
Blue River	WGB	British Columbia,Canada	52.1023N	119.4650W	2012	From 1984-08-08 to 1986-07-31
Blue River	BLBC	British Columbia,Canada	52.0434N	119.2411W	2362	
Blum	BLMY	New York,U.S.A.	41.3297N	73.9550W	134	
Blyn Mountain	BLN	Washington,U.S.A.	48.0074N	122.9720W	585	From 1970-07-02
Blythe	Y12C	California,U.S.A.	33.7503N	114.5238W	196	From 2004-10-08
Blythe	Z55A	Georgia,U.S.A.	33.2211N	82.1359W	100	From 2012-04-06
Blythe	BLYC	California,U.S.A.	33.7503N	114.5238W	196	
Blytheville	V44A	Arkansas,U.S.A.	35.8282N	89.8954W	78	From 2011-05-14 to 2013-03-11
Boac	BOAC	Luzon,Philippines	13.4590N	121.8440E	29	
Boaco	BOA	Nicaragua	12.4818N	85.7178W	550	From 1975-01-01
Boaco	BOA1	Nicaragua	12.4872N	85.6945W	734	
BOACO BROADBAND	BOAB	Nicaragua	12.4491N	85.6663W	89	From 1995-02-02
Boa Vista	BOAV	Brazil	2.3953N	60.5225W	114	From 2013-11-11
Bobbio (Coli)	BOB	Italy	44.7669N	9.4478E	910	
Bobcaygeon	H53A	Ontario,Canada	44.5736N	78.5832W	292	From 2013-07-21
B¨¶bikon, Wasserreservoir Allmend, AG	BOBI	Switzerland	47.5463N	8.3399E	410	From 2013-12-09
Bob Jauregui Ranch	ABJM	California,U.S.A.	39.1653N	121.1910W	457	From 1976-07-27
Bob, Littlefork	B35A	Minnesota,U.S.A.	48.3603N	93.7261W	358	From 2010-10-19 to 2012-08-07
Bob Quinn Lake	BQB	British Columbia,Canada	57.0227N	130.2400W	1310	From 1981-10-09
Bobrof	AK4	Alaska,U.S.A.	51.8230N	177.4450W	8	
Boca de Chavon	ROBI	Dominican Republic	18.4100N	68.8400W	0	
Bocca Nuova	EBCN	Sicily,Italy	37.7521N	14.9858E	3135	From 2009-10-09
Bocca Seriola	CCE3	Italy	43.5170N	12.3548E	750	From 2011-02-08
Bochum	NE36	Nordrhein-Westfalen,Germany	51.4419N	7.2703E	85	
Bochum	BOC	Nordrhein-Westfalen,Germany	51.4894N	7.2139E	64	From 1907-01-01
Bochum--University	BUG	Nordrhein-Westfalen,Germany	51.4406N	7.2693E	85	From 1971-10-01
Bocsa	PKS6	Hungary	46.5998N	19.5645E	120	
Bodaibo	BOD	Irkutskaya Oblast',Russia	57.8189N	114.0039E	245	
Bodega del ICE en Pailas	GPS3	Costa Rica	10.7547N	85.3650W	639	From 2000-01-01
Bodie	BODR	California,U.S.A.	38.1628N	118.9702W	2195	
Bodon	BDN	Buryatiya,Russia	53.9000N	110.1000E	1000	
Bodrum	BODT	Turkey	37.0621N	27.3104E	379	From 2005-02-14
Boeing Everett	BEVT	Washington,U.S.A.	47.9200N	122.2700W	170	
Boeing Fire Protection	BSFP	Washington,U.S.A.	47.5200N	122.2983W	5	From 2004-07-07
Boeun	KSBON	Republic of Korea	36.5000N	127.8000E	332	From 2005-11-02
Bogazkoy	BGKT	Turkey	41.1810N	28.7730E	80	From 2002-01-01
Bogdanovka	BGD	Georgia,Georgia	41.2645N	43.5986E	1978	From 1954-01-01
Boggs Farm, Caney	T36A	Kansas,U.S.A.	37.0605N	95.8789W	243	From 2010-05-07 to 2012-03-02
Boggs Mountain	GBGM	California,U.S.A.	38.8140N	122.6790W	1125	From 1975-06-26
Boggy Peak	BPA	Antigua,Antigua and Barbuda	17.0460N	61.8570W	396	From 1980-07-09

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Bogi-Zagon	BZN	Tajikistan	38.4800N	69.8200E		
Bogner Ranch, Nez Perce	E11A	Idaho,U.S.A.	46.3559N	116.2092W	831	From 2006-11-13 to 2008-06-06
Bogoin	BGCA	Central African Republic	5.1761N	18.4242E	576	
Bogong Mts	BOV	Victoria,Australia	36.8078S	147.2270E	700	From 1963-01-01 to 1972-08-09
Bogota	BOCO	Colombia	4.5869N	74.0433W	3137	From 1977-12-01
Bogota	BOG	Colombia	4.6231N	74.0650W	2658	From 1941-09-01
Bogota, SGC	CBOG1	Colombia	4.6410N	74.0800W	2584	From 1995-11-28
Bohocortia	BOH	Aquitaine,France	43.1027N	1.0117W	1150	
Bohunice	BHC	Czech Republic	48.5786N	17.5289E	0	
Boiestown	BOIN	New Brunswick,Canada	46.4628N	66.4067W	86	From 2007-06-26
Boilermakers Shaker, Crown Point	M45A	Indiana,U.S.A.	41.3881N	87.2504W	216	From 2011-10-23
Boischatel	BCLQ	Quebec,Canada	46.9262N	71.1728W	180	From 2007-11-02
Bois d'Agland	BGF	Auvergne,France	46.5578N	2.8464E	390	
Boise	BSE	Idaho,U.S.A.	43.6500N	116.0920W		From 1975-05-01
Boisen	BOI	New Britain,Papua New Guinea	4.1878S	152.1990E	18	
Bois Riant Capesterre	BCG	Guadeloupe,France	16.0850N	61.6197W	442	
Boistfort Mountain	BMW	Washington,U.S.A.	46.4750N	123.2280W	870	
Bojanci	BOJS	Slovenia	45.5040N	15.2520E	256	From 2004-03-01
Bojnu@18rd	BJRD	Iran,Iran	37.7000N	57.4080E	1337	
Bojnurd	BJMA	Iran	37.9000N	55.9500E	0	
Bokaro	BOK	Bihar,India	23.7948N	85.8858E	282	
Bokaro	BOKR	Bihar,India	23.7948N	85.8859E	282	
BOKO	BOKO	Assam,India	25.9700N	91.2426E	50	From 2012-01-01
Bokosso	BKO	Cameroon	4.4181N	9.1411E	380	From 1985-02-13
Bolckow	O36A	Missouri,U.S.A.	40.1315N	94.9645W	306	From 2010-05-18 to 2012-03-14
Bolinao	BOLP	Luzon,Philippines	16.3810N	119.9130E	71	
Bolinger Road	BGC	California,U.S.A.	37.8162N	122.0620W	610	From 1969-08-23
Bolinger Road	LT16	California,U.S.A.	37.8162N	122.0620W	610	From 1969-08-23
Bolinger Road	CBRM	California,U.S.A.	37.8162N	122.0620W	610	From 1969-08-23
Bolivar	S39A	Missouri,U.S.A.	37.6910N	93.3226W	331	From 2010-12-12 to 2012-10-26
Bolivia	Y60A	North Carolina,U.S.A.	34.0046N	78.2163W	7	From 2013-02-27
Boljevac	BOLS	Serbia	43.8289N	21.9532E	267	From 2002-06-21
Bologna	BOL	Italy	44.4867N	11.3290E	80	
Bol'shaya Rechka	BLRR	Krasnoyarskiy Kray,Russia	53.0383N	92.4282E	558	From 2005-02-23
Bolshoi Rechka	BRHS	Buryatiya,Russia	52.0000N	106.4000E	459	
Bolshoye Goloustnoye	BGT	Irkutskaya Oblast',Russia	52.0453N	105.4070E	466	From 2011-06-14
BOLU	KIBS	Turkey	40.4197N	31.8524E	1199	From 2013-01-31
Bolvadin	BOLV	Turkey	38.7183N	30.9502E	1303	From 2007-05-30
Bolzano	BLZ	Italy	46.5049N	11.3468E	280	From 1971-05-06
Bolzano	BOSI	Italy	46.4952N	11.3185E	242	From 2006-12-13
Bombay	BOM	Maharashtra,India	18.8958N	72.8127E	6	
Bomdila	BMI	Arunachal Pradesh,India	27.2675N	92.4230E	2700	From 1983-07-01
Bomnak	BMKR	Amurskaya Oblast',Russia	54.7110N	128.8420E	342	
Bomnak	BMKS	Amurskaya Oblast',Russia	54.7000N	128.9000E	310	
Bom Sucesso	BSCB	Minas Gerais,Brazil	20.9977S	44.7737W	870	
Bomura	BHOK	Shiga,Japan	35.2447N	135.8728E	380	
Bonanza	DCA1	Alberta,Canada	56.0317N	119.9319W	485	
Bonanza King	LBKM	California,U.S.A.	41.0842N	122.6650W	1341	
Bonao	BON1	Dominican Republic	18.9423N	70.3955W	181	From 2011-06-15
Bondeno (FE)	T0805	Italy	44.9187N	11.3226E	4	From 2012-05-21 to 2012-08-27
Bonds Corner	BON	California,U.S.A.	32.6945N	115.2690W	14	From 1973-04-16 to 2008-02-22
Bone	J16A	Idaho,U.S.A.	43.2741N	111.6119W	2004	From 2007-07-25 to 2009-05-10
Bone	BNSI	Sulawesi,Indonesia	4.4005S	120.1065E	0	From 2007-12-01
BONGHWA	KSCHY	Republic of Korea	36.9378N	128.9167E	321	From 2000-11-22
Bonilla	BNAB	British Columbia,Canada	53.4933N	130.6370W	16	From 1987-12-04
Bonnechere River Park	BRPO	Ontario,Canada	45.6506N	77.5061W	170	
Bonneval	BOF	Rhone-Alpes,France	45.3540N	7.0300E	1800	From 1981-07-01
Bonny Gate	BNJ	Jamaica	18.3210N	76.9510W	485	
Bonnylands	HBL2	England,United Kingdom	52.0508N	3.0384W	400	From 1991-01-01
Book Cliffs East	BCE	Utah,U.S.A.	39.6131N	110.4084W	2666	
Boomskoye uschel'e	BOOM	Kyrgyzstan	42.4900N	75.9400E	1737	From 2010-06-05
Boondooma	BOON	Queensland,Australia	26.0951S	151.4521E	370	
Boondooma Dam	BDMQ	Queensland,Australia	26.1123S	151.4440E	320	
Booneville	X46A	Mississippi,U.S.A.	34.5564N	88.5844W	150	From 2011-12-08
Boorowa	BWA	New South Wales,Australia	34.4250S	148.4180E	656	From 1971-01-01
Boothbay	I64A	Maine,U.S.A.	43.9197N	69.6347W	17	From 2013-09-26
Boqe	ST04	Xizang Zizhiqu,China	30.9593N	90.1925E	4736	From 1998-07-16 to 1999-06-01
Boqueron	BOQS	El Salvador	13.7350N	89.2800W	1830	From 1991-12-01
Boquillas Ranch, Navajo N., Peach Springs	V14A	Arizona,U.S.A.	35.6339N	113.1053W	1731	From 2007-03-09 to 2008-11-07
Boraas	BORU	Sweden	57.6345N	12.7697E	175	From 2006-08-04
Boracho Peak	MT1	Texas,U.S.A.	30.9289N	104.3910W	1714	From 1977-06-01 to 2003-01-28
Borbona	RM20	Italy	42.5249N	13.1264E	804	From 2009-04-09 to 2009-08-26
Borcka	BCA	Turkey	41.4450N	41.6223E	500	
Borcka	DBOC	Turkey	41.3453N	41.6666E	615	From 2007-09-24
Bordano	BOO	Italy	46.3200N	13.1000E	444	From 1977-05-09
Bordano	BORI	Italy	46.3200N	13.1000E	444	From 1977-05-09
Bordesti	BRD	Romania	45.5536N	27.0288E	356	
Borealis Mine area, Hawthorne	TVH2	Nevada,U.S.A.	38.3782N	118.7564W	2174	
Borgarnes	BORG	Iceland	64.7474N	21.3268W	110	From 1994-07-31
Borgo	BL1	Italy	43.9802N	11.4342E		From 1977-11-01
Borgo	BSL	Italy	43.9802N	11.4342E		From 1977-11-01
Borgo San Lorenzo	BOSL	Italy	43.9400N	11.3800E	374	From 2007-02-02
Borgo Val di Taro	BVT	Italy	44.4864N	9.7750E	0	From 1975-09-01 to 1991-12-31
Borinquen Arriba	GB1A	Costa Rica	10.8185N	85.3983W	881	From 2000-01-01
Borland Lodge	BRZ	South Island,New Zealand	45.7776S	167.5388E	190	From 1979-08-22 to 1990-08-02
Bormio	BRMO	Italy	46.4761N	10.3731E	1380	
Bormio	BORM	Italy	46.4694N	10.3764E	1235	From 2006-11-29
Bornholm Skovbrynet	BSD	Denmark	55.1139N	14.9147E	88	From 1990-03-01
Bornova	KDAG	Turkey	38.4028N	27.2667E	997	From 1999-07-01
Boroldaу	BRLS	Kazakhstan	43.0300N	69.8360E	590	From 1989-10-30
Borongan	BESP	Samar,Philippines	11.6010N	125.4380E	48	
Borongxiang, Xizang Zizhiqu	XIXI	Xizang Zizhiqu,China	28.7408N	85.6903E	4660	From 2002-07-15 to 2002-11-01
Borovoye	BRVK	Kazakhstan	53.0581N	70.2828E	315	From 1994-09-01
Borovoye Array Beam Reference Point	BVAR	Kazakhstan	53.0249N	70.3885E	420	From 2002-07-06
Borovoye Array Site A0	BVA0	Kazakhstan	53.0249N	70.3885E	420	From 2002-07-06
Borovoye Array Site A1	BVA1	Kazakhstan	53.0249N	70.3886E	420	From 2002-07-06
Borovoye Array Site A2	BVA2	Kazakhstan	53.0189N	70.3912E	434	From 2002-07-06
Borovoye Array Site A3	BVA3	Kazakhstan	53.0268N	70.3785E	437	From 2002-07-06
Borovoye Array Site A4	BVA4	Kazakhstan	53.0290N	70.3963E	405	From 2002-07-06
Borovoye Array Site B5	BVB5	Kazakhstan	53.0247N	70.3662E	387	From 2002-07-06
Borovoye Array Site B6	BVB6	Kazakhstan	53.0361N	70.3762E	401	From 2002-07-06
Borovoye Array Site B7	BVB7	Kazakhstan	53.0379N	70.3950E	435	From 2002-07-06
Borovoye Array Site B8	BVB8	Kazakhstan	53.0216N	70.4108E	419	From 2002-07-06
Borovoye Array Site B9	BVB9	Kazakhstan	53.0123N	70.3857E	512	From 2002-07-06
Borrego Mountain	BRGC	California,U.S.A.	33.1712N	116.1740W	219	
Borrego Springs	BORC	California,U.S.A.	33.2682N	116.4172W	252	
Borschemich	BD11	Nordrhein-Westfalen,Germany	51.0823N	6.4302E	100	From 2001-01-01 to 2011-11-01
Borseda	BORS	Italy	44.2450N	9.8258E	510	From 1991-01-01 to 1999-08-25
Boryeong	KSPOR	Republic of Korea	36.3212N	126.5557E	15	From 2000-02-18
Boryeong	PORA	Republic of Korea	36.3278N	126.5575E	0	From 2012-10-05
Borzhomi	BOR	Georgia,Georgia	41.8333N	43.3833E	794	
Bosco Santo Pietro	HBSP	Sicily,Italy	37.1270N	14.4920E	254	From 2012-05-22
Boseong-gun	BOSB	Republic of Korea	34.7634N	127.2121E	-52	From 2012-10-18
Boshof	BOSA	South Africa	28.6137S	25.2560E	1200	From 1993-01-01
BOSHOF INFRASONIC ARRAY REFERENCE POINT	I47ZA	Orange Free State,South Africa	28.6211S	25.2352E	1306	From 2005-11-08
Bosilegrad	BOSS	Serbia	42.4961N	22.4800E	446	From 2010-08-04
Boslevi	BGLV	Georgia,Georgia	42.1740N	43.1828E	1046	From 2007-10-19
Bosley Butte	KBO	Oregon,U.S.A.	42.2123N	124.2260W	1008	
Boso 1	BSO1	Honshu,Japan	34.6535N	140.9780E	-4011	From 1988-01-01
Boso 2	BSO2	Honshu,Japan	34.7513N	140.7545E	-2090	From 1988-01-01
Boso 3	BSO3	Honshu,Japan	34.8017N	140.5103E	-1898	From 1988-01-01
Boso 4	BSO4	Honshu,Japan	34.9900N	140.3380E	-658	From 1988-01-01
Bosque Alegre	BOS	Cordoba,Argentina	31.5983S	64.5458W	1200	
Bostanabad	IBST	Iran	37.7000N	46.8920E	2100	From 1995-08-01
Boston College	BCX	Massachusetts,U.S.A.	42.3350N	71.1705W	61	
Botanikuri	BTNK	Georgia,Georgia	41.6832N	44.7988E	570	From 2011-12-27
Bothatogo	UBOT	Botswana	20.5400S	22.7400E	956	From 2001-01-01 to 2100-12-31
Bothel	BBO1	Scotland,United Kingdom	54.7367N	3.2464W	209	From 1992-01-01
Botiquin	BOTV	Venezuela	10.4037N	67.2167W	2375	From 2004-04-04

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Botkins High School	BHSO	Ohio,U.S.A.	40.4690N	84.1790W	304	
Botlikh	BTLR	Dagestan,Russia	42.6639N	46.2222E	870	
Botticino	BOTT	Italy	45.5494N	10.3095E	200	From 2009-10-27
Botticino Mattina	BOTM	Italy	45.5413N	10.3211E	156	From 2014-11-14
Bottle Rock Power	BRP	California,U.S.A.	38.8549N	122.7971W	905	
Bou Andas	CBND	Algeria	36.5275N	5.1255E	1575	
Bouganvilia	BVG	Guatemala	14.1080N	90.9397W	45	From 1978-06-01 to 1987-11-09
Bougnies	BBOU	Belgium	50.3888N	3.9447E	80	From 1985-03-29
Bouhanifia	ODJA	Algeria	35.3300N	0.1500W	645	From 2004-04-01
Boujaaouane	BOJ	Morocco	32.0310N	9.0680W	300	
Boulbra	BBA	Morocco	31.9120N	9.4710W		
Boulder	BO1	Colorado,U.S.A.	40.0128N	105.2520W	1669	
Boulder	BDC	Colorado,U.S.A.	40.0050N	105.1581W	1625	
Boulder	BDW	Wyoming,U.S.A.	42.7762N	109.5680W	2190	From 1977-06-20 to 1986-07-01
Boulder	BOU	Colorado,U.S.A.	40.0083N	105.2710W	1654	From 1953-12-01 to 1968-12-31
Boulder Array	PD06	Wyoming,U.S.A.	42.7667N	109.5580W	2224	From 1986-07-18
Boulder Array Site 6	BW06	Wyoming,U.S.A.	42.7667N	109.5583W	2224	From 1986-07-18
Boulder City	BCN	Nevada,U.S.A.	35.9808N	114.8340W	776	From 1938-02-01 to 1975-06-30
Boulder Dam	BDA	Arizona,U.S.A.	36.0154N	114.7370W	237	From 1941-04-01 to 1961-12-31
Boulder Hill, Kettleman City	V05C	California,U.S.A.	35.8667N	119.9028W	118	From 2005-04-11 to 2007-12-07
Boumerdes	ABMS	Algeria	36.7500N	3.4800E	97	From 2004-05-01
Boundary Peak	BNPN	Nevada,U.S.A.	37.9885N	118.3020W	2438	
Boundary Peak	BONR	Nevada,U.S.A.	37.9552N	118.3020W	2582	From 1974-07-01
Bountiful Peak	BPU	Utah,U.S.A.	40.9542N	111.8170W	2652	From 1974-10-01 to 1975-03-31
Bourheim	BD12	Nordrhein-Westfalen,Germany	50.9020N	6.3220E	-77	From 2004-08-01 to 2008-12-04
Bourrignon	BOURR	Switzerland	47.3938N	7.2302E	860	From 1998-09-01
Bovan	BOVS	Serbia	43.6351N	21.7057E	223	From 2009-11-03
Bowen Island	BIB	British Columbia,Canada	49.4060N	123.3060W	37	From 1983-01-20
Bowen Ranch, Douglas	K23A	Wyoming,U.S.A.	42.7546N	105.6251W	1612	From 2008-11-17 to 2010-09-09
Bowen Soft Rock	BW2S	Queensland,Australia	19.9984S	148.2230E	23	From 2012-08-03
Bowe Ranch, Endee	W27A	New Mexico,U.S.A.	35.0637N	103.0627W	1233	From 2008-05-09 to 2010-03-17
Bowland	LBO	England,United Kingdom	53.9789N	2.5728W	320	From 1989-01-01
Bowling Green	BGO	Ohio,U.S.A.	41.3781N	83.6592W	212	From 1963-09-01
Bowling Green	BGKY	Kentucky,U.S.A.	37.0055N	86.5232W	240	
Bowling Green	T48A	Kentucky,U.S.A.	37.1094N	86.3943W	218	From 2011-11-19
Bowling Green State University	BGSO	Ohio,U.S.A.	41.3812N	83.6404W	208	
Bowman	F25A	South Dakota,U.S.A.	45.9256N	103.4576W	912	From 2009-07-11 to 2011-06-23
Bowman	Z57A	South Carolina,U.S.A.	33.2970N	80.7039W	81	From 2013-02-20
Bowman	BOW	South Carolina,U.S.A.	33.3736N	80.6431W	35	From 1977-10-23
Bowman Hall	BHKY	Kentucky,U.S.A.	38.0350N	84.5050W	306	
Box Canyon	BOX	Nevada,U.S.A.	39.6153N	118.1763W	1283	
Box Lake	BOXN	Northwest Territories,Canada	63.8521N	109.7169W	436	
Boyabat	BOYT	Turkey	41.4206N	34.9036E	660	From 1994-05-01
Boyabat	BYBT	Turkey	41.4685N	34.7667E	85	From 1996-10-10
Boyalica	BOY	Turkey	40.4867N	29.5573E	30	From 1994-01-01
Boyer Ranch	BYX	Nevada,U.S.A.	39.9542N	117.9178W	1128	
Bozab	IBZA	Iran	34.4696N	47.8605E	2343	From 2004-01-01
Bozburun-Marmaris	BBRN	Turkey	36.6796N	28.0587E	194	From 2013-01-16 to 2013-12-01
Bozcaada	BOZC	Turkey	39.8419N	26.0528E	202	From 2003-10-16
Bozcaada-Canakkale	BOZD	Turkey	39.8314N	26.0705E	39	From 2011-03-27
Bozeman	BZM	Montana,U.S.A.	45.6669N	111.0450W	1490	From 1931-05-01 to 1968-03-31
Bozeman	BZE	Montana,U.S.A.	45.8060N	110.9330W	244	From 1974-01-01 to 1977-05-31
Bozeman Pass	BZMT	Montana,U.S.A.	45.6482N	110.7967W	1905	
Bozeman (W)	BOZ	Montana,U.S.A.	45.5970N	111.6297W	1592	From 1999-11-13
Bozkurt	BZK	Turkey	41.9600N	34.0035E	70	From 1992-07-01
Bozova	ATAB	Turkey	37.4696N	38.2949E	551	From 2005-06-24
BOZOYUK	AUBOZ	Turkey	39.9106N	30.0325E	825	From 2010-01-27
Bozyazi-Mersin	BOZY	Turkey	36.1068N	32.9763E	9	From 2011-09-02
Braaten, Kindred	E32A	North Dakota,U.S.A.	46.5927N	97.0701W	297	From 2010-08-10 to 2012-06-08
Brabster	OBR	Scotland,United Kingdom	58.6142N	3.1623W	89	From 1995-09-21
Bracie Corner	BRCN	New York,U.S.A.	44.4275N	75.5830W	83	
Bradely Ranch, Valier	B15A	Montana,U.S.A.	48.3129N	112.5619W	1222	From 2007-09-11 to 2009-08-14
Bradley Lake	BRLK	Alaska,U.S.A.	59.7642N	150.8860W	631	From 1980-11-28
Bradley Lake NE	BRNE	Alaska,U.S.A.	59.9108N	150.6520W	1219	From 1980-10-12 to 1984-06-29
Bradley Lake NW	BRNW	Alaska,U.S.A.	59.8375N	151.1690W	582	From 1980-10-03 to 1984-06-29
Bradley Lake SE	BRSE	Alaska,U.S.A.	59.7055N	150.6710W	975	From 1980-10-10
Bradley Lake SW	BRSW	Alaska,U.S.A.	59.6410N	151.0450W	951	From 1980-10-12 to 1984-06-29
Braganca	PBRG	Portugal	41.8048N	6.7413W	691	From 1995-06-01
Braggadocio	BRGM	Missouri,U.S.A.	36.2047N	89.8585W	78	
Braida Crags	BCZ	South Island,New Zealand	46.0051S	167.8398E	120	From 1990-05-28 to 1993-07-17
Brajici-Budva	BUM	Montenegro	42.3007N	18.8936E	822	From 2003-06-02
Branch Mountain	BCH	California,U.S.A.	35.1850N	120.0840W	1140	From 1976-08-01
Brandywine Creek State Park	BWD	Delaware,U.S.A.	39.7994N	75.5767W	62	From 1985-02-01
Branistea	BRAG	Romania	45.4425N	27.8331E	63	From 2013-10-23
Brankovina	VVOS	Serbia	44.3518N	19.9047E	0	
Brasilia	BDFB	Distrito Federal,Brazil	15.6412S	48.0141W	1095	From 1993-06-01
Brasilia	BAE	Distrito Federal,Brazil	15.8411S	47.8200W	1200	From 1968-01-03 to 1970-12-21
Brasilia Array	BCS*	Distrito Federal,Brazil	15.7660S	48.0388W	1255	From 1966-11-17 to 1970-12-21
Brasilia Array Centre Point	BAO	Distrito Federal,Brazil	15.6349S	47.9915W	1211	
Brasilia Array Site E1	BAE1	Distrito Federal,Brazil	15.6426S	47.9689W	1170	
Brasilia Array Site E2	BAE2	Distrito Federal,Brazil	15.6501S	47.9469W	1110	
Brasilia Array Site E3	BAE3	Distrito Federal,Brazil	15.6569S	47.9261W	1150	
Brasilia Array Site E4	BAE4	Distrito Federal,Brazil	15.6642S	47.9031W	1258	
Brasilia Array Site E5	BAE5	Distrito Federal,Brazil	15.6725S	47.8809W	1260	
Brasilia Array Site EE	BAEE	Distrito Federal,Brazil	15.7386S	47.6200W	1200	From 1971-01-01
Brasilia Array Site S1	BAS1	Distrito Federal,Brazil	15.6561S	47.9997W	1145	
Brasilia Array Site S2	BAS2	Distrito Federal,Brazil	15.6779S	48.0070W	1060	
Brasilia Array Site S3	BAS3	Distrito Federal,Brazil	15.6986S	48.0146W	1120	
Brasilia Array Site S4	BAS4	Distrito Federal,Brazil	15.7191S	48.0223W	1140	
Brasilia Array Site S5	BAS5	Distrito Federal,Brazil	15.7420S	48.0304W	1150	
Brasilia Array Site SE	BASE	Distrito Federal,Brazil	15.9572S	48.0706W	1200	From 1971-01-01
Brasilia Array Site W1	BAW1	Distrito Federal,Brazil	15.6282S	48.0129W	1150	
Brasilia Array Site W2	BAW2	Distrito Federal,Brazil	15.6214S	48.0186W	1200	
Brasilia Array Site W3	BAW3	Distrito Federal,Brazil	15.6126S	48.0575W	1265	
Brasilia Array Site W4	BAW4	Distrito Federal,Brazil	15.6053S	48.0794W	1200	From 1971-01-01
Brasilia Array Site WE	BAWE	Distrito Federal,Brazil	15.5909S	48.1139W	1340	From 1971-01-01
BRASILIA INFRASONIC ARRAY REFERENCE POINT	IDBR	Distrito Federal,Brazil	15.6380S	48.0164W	1185	From 2001-06-20
Brasilia (W)	BDF	Distrito Federal,Brazil	15.6638S	47.9033W	1260	From 1970-12-22
Brasopolis	BRAS	Minas Gerais,Brazil	22.5353S	45.5854W	1850	From 1986-03-12
Brasstown Bald	BBG	Georgia,U.S.A.	34.8740N	83.8110W	1355	From 1982-01-27 to 2008-02-13
Bratislava	BRA	Slovakia	48.1683N	17.1050E	270	
Bratislava	ZST	Slovakia	48.1961N	17.1025E	250	From 1976-07-01
Bratogost	BRY	Montenegro	42.9016N	18.5389E	1407	From 1983-12-25
Braunhartsberg	BHBD	Baden-Wurttemberg,Germany	48.2474N	9.0042E	933	From 1982-01-01
Brava--Cachaco	BCCH	Cape Verde Islands	14.8322N	24.6936W	660	
Breckenridge Mountain	WBMM	California,U.S.A.	35.4510N	118.5830W	2292	
Bredaryd	BYD	Sweden	57.0590N	13.1630E	152	From 1980-01-01 to 1991-12-31
Bredtraesk	BREU	Sweden	63.8908N	18.5777E	100	From 2000-04-28
Breislack	LKG	Guadeloupe,France	16.0447N	61.6583W	1380	
Bremgarten	BREM	Baden-Wurttemberg,Germany	47.9111N	7.6274E	210	From 2001-01-24
Bremner River	BMRM	Alaska,U.S.A.	60.9682N	144.6030W	823	From 1979-09-12
Brentwood	TBW	England,United Kingdom	51.6549N	0.2911E	82	From 1989-01-01
Bressanone	BRES	Italy	46.6987N	11.7341E	2454	From 2002-05-01
Brest	BST	Bretagne,France	48.3020N	4.0627W	288	From 1983-03-01
Brest	NE54	Belarus	52.5680N	23.8610E	200	
Bretten	BRET	Baden-Wurttemberg,Germany	49.0132N	8.6891E	267	From 2011-10-26
Brettingsstaoir	IBRE	Iceland	66.1230N	17.9100W	41	From 2001-01-25
Brewton	BO-	Alabama,U.S.A.	31.1697N	86.8597W	76	From 1965-12-02 to 1965-12-13
Brewton	BO-AL	Alabama,U.S.A.	31.1697N	86.8597W	76	From 1965-12-02 to 1965-12-13
Brewton	BRAL	Alabama,U.S.A.	31.1687N	87.0506W	61	From 2006-07-14
Brezje pri Sen	KBZS	Slovenia	45.9400N	15.4390E	217	
Brgy, Tapao	SIPP	Philippines	17.9230N	120.4580E	56	From 2006-10-01
Briangon	OG15	Provence-Cote d'Azur,France	44.9113N	6.6487E	1985	From 1993-01-20
Briano	GRDB	Italy	45.7095N	10.6661E	997	From 2011-06-01
Bricherasio	BHB	Italy	44.8417N	7.2633E	530	From 1990-05-17 to 2009-09-30
Brid	BRIU	Ukraine	48.3380N	23.0203E	167	From 2005-05-26
Bridge Bay	YPBR	Wyoming,U.S.A.	44.5367N	110.4395W	2383	
Bridge Creek, Tuttle	W34A	Oklahoma,U.S.A.	35.2352N	97.7733W	428	From 2009-10-26 to 2011-09-06
Bridgeport	BPT	Connecticut,U.S.A.	41.2221N	73.2422W	83	From 1972-01-07 to 1977-06-10

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Bridge Port	J48A	Michigan,U.S.A.	43.2986N	83.7849W	195	From 2012-10-13
Bridger	G20A	Montana,U.S.A.	45.2202N	108.2141W	1431	From 2008-08-14 to 2010-08-12
Bridgewater	E64A	Maine,U.S.A.	46.4184N	67.8285W	190	From 2013-09-18
Brienza	BRIE	Italy	40.4966N	15.6153E	980	
Brig	BRI	Switzerland	46.3153N	7.9956E	708	
Brigand Hill	TBH	Trinidad and Tobago	10.4840N	61.0670W	199	From 1978-04-11
Brigerbad	BIBA	Switzerland	46.3025N	7.9304E	660	From 2009-10-01
Brigham City	BCUT	Utah,U.S.A.	41.5123N	111.9822W	1676	
Brigham Young University	BYU	Utah,U.S.A.	40.2531N	111.6491W	1420	
Brig, Spital	SBRS	Switzerland	46.3170N	7.9814E	671	From 2012-08-27
Brijuni	BRJN	Croatia	44.9057N	13.7503E	26	From 2009-11-04
Brimhall	V20A	New Mexico,U.S.A.	35.7992N	108.4662W	1889	From 2008-02-16 to 2009-11-22
Brimstone Hill	BSK	St Kitts,Saint Kitts and Nevis	17.3470N	62.8400W	125	From 1980-07-09
Brinkman Farms, Chinook	B19A	Montana,U.S.A.	48.4551N	108.9443W	803	From 2008-09-03 to 2010-07-18
Brinnon	C04A	Washington,U.S.A.	47.7172N	122.9718W	53	From 2005-10-22 to 2008-02-18
Brione	BIE	Trentino,Italy	45.8835N	10.8738E	353	From 1981-06-15 to 1995-08-31
Briones	BRIB	California,U.S.A.	37.9189N	122.1518W	219	
Brisbane	SBRN	California,U.S.A.	37.6856N	122.4113W	-157	
Brisbane	BRS	Queensland,Australia	27.3917S	152.7750E	525	From 1963-01-01
Brisbane	BRSB	Australia	27.4781S	153.0311E	15	From 1937-09-01 to 1963-12-31
Brisbane 2 Soft	BN2S	Queensland,Australia	27.3293S	153.0477E	8	From 2009-01-01
Brisbane hardrock	BR1	Queensland,Australia	27.4306S	153.0237E	100	
Brisbane Hard Rock	BN1H	Queensland,Australia	27.4306S	153.0240E	71	From 2012-04-22
Brisbane softrock	BR2	Queensland,Australia	27.4314S	153.0693E	100	
BRISIGHELLA	BRIS	Italy	44.1499N	11.5107E	260	From 2010-05-26
Brite Ranch	MT4	Texas,U.S.A.	30.2731N	104.5700W	1469	From 1977-06-01 to 2003-01-28
Broad Law	EBL	Scotland,United Kingdom	55.7733N	3.0436W	365	From 1969-01-01
Broad Pass	BDP	Alaska,U.S.A.	63.2312N	149.2590W	709	From 1971-08-01 to 1976-09-30
Brockman Farm, Red Cloud	O32A	Nebraska,U.S.A.	40.2610N	98.2764W	579	From 2009-09-14 to 2011-08-19
Brocks Farm	BSCP	California,U.S.A.	32.7248N	115.0440W	43	
Brockton	B23A	Montana,U.S.A.	48.4643N	104.9909W	716	From 2008-09-17 to 2010-07-15
Brognaturo	ME04	Italy	38.5928N	16.3576E	907	From 2007-10-21 to 2008-06-29
Brojen	IBRJ	Iran	31.9080N	51.2600E	2354	From 1985-01-01
Broken Hill	BHA	Zambia	14.4467S	28.4683E	1206	
Bromley	BRUT	Utah,U.S.A.	40.6230N	111.8790W	1337	From 1990-08-22
Bronaber	WBR	Wales,United Kingdom	52.8560N	3.8941W	340	From 1985-01-01
Bronson	340A	Texas,U.S.A.	31.4167N	93.8896W	57	From 2010-02-19 to 2011-12-10
Bronte	231A	Texas,U.S.A.	31.9353N	100.3163W	574	From 2009-03-01 to 2011-02-10
Brookfield	BCT	Connecticut,U.S.A.	41.4933N	73.3839W	69	From 1975-06-10 to 1999-01-31
Brookside Elementary School	BRKS	Washington,U.S.A.	47.7555N	122.2884W	100	
Brooks Peninsula	BPBC	British Columbia,Canada	50.1572N	127.7710W	732	From 1991-10-01
Brookwood Res.	CBWM	California,U.S.A.	37.9242N	122.1070W	221	From 1971-04-28
Brookwood Reservoir	BKC	California,U.S.A.	37.9242N	122.1070W	221	From 1971-04-28
Brophy Road	ABRM	California,U.S.A.	39.1352N	121.4870W	24	From 1977-02-14
Brorfelde Observatory, Denmark	BFOD	Denmark	55.6200N	11.6700E	77	From 2011-12-14
Browne	BWN	Alaska,U.S.A.	64.1717N	149.4650W	365	From 1989-09-19
Brownlee Dam	BDID	Idaho,U.S.A.	44.7983N	116.8850W	1400	From 1990-07-01
Brown Mountain	BRTN	Tennessee,U.S.A.	36.3567N	82.8678W	630	From 1986-06-05
Brown Peak	BRPK	Alaska,U.S.A.	54.6455N	163.7408W	393	
Brown Place, Jackson	J17A	Wyoming,U.S.A.	43.3629N	110.7118W	1975	From 2007-10-25 to 2009-05-16
Bruarjokull	IBRU	Iceland	64.8290N	16.0880W	746	From 2004-12-29
Bruce Peninsula	BRCO	Ontario,Canada	44.2437N	81.4423W	273	From 2009-04-19
Bruguera	BRUG	Spain	42.2830N	2.1860E	1300	
Bruguera	CBRU	Spain	42.2855N	2.1801E	1327	
Brunna	FIBU	Sweden	59.9013N	17.3518E	52	
Brunswick	BRWK	Victoria,Australia	37.7608S	144.9493E	9	From 2008-09-20
Brunts Corner	BTCC	California,U.S.A.	33.0121N	115.2199W	39	
Bruntsheil	BBH	Scotland,United Kingdom	55.1333N	2.9299W	216	
Bruslee	BSLQ	Queensland,Australia	20.8670S	146.5640E	185	From 1984-03-02
Bryant	B05A	Washington,U.S.A.	48.2641N	122.0960W	154	From 2005-11-30 to 2008-02-20
Bryant College	BRYW	Connecticut,U.S.A.	41.9178N	71.5388W	380	
Bryant Ranch, Stanton	229A	Texas,U.S.A.	31.9671N	101.8107W	804	From 2009-02-09 to 2010-12-09
Bryn Du	SBD1	Wales,United Kingdom	52.9055N	3.2585W	489	From 1980-01-01
Bryson	PBYM	California,U.S.A.	35.8150N	121.0820W	335	
Bsor	BSO	Israel	31.2670N	34.4850E	140	From 1983-01-01 to 1991-12-31
Bua	MBU	Fiji	16.9728S	178.7217E	549	From 1981-11-01
Buan	KSPUA	Republic of Korea	35.7226N	126.7178E	11	From 2000-02-13
Buaraba 3	WBAQ	Queensland,Australia	27.3527S	152.3082E		From 1984-07-06
Bucak	BCK	Turkey	37.4608N	30.5890E	860	From 1973-05-18
Bucaramanga	BCR	Colombia	7.0194N	73.1764W	750	From 1972-10-01 to 1980-12-31
Bucaramanga	BMG	Colombia	7.0717N	73.0753W	1000	
Buchan	BUCN	Victoria,Australia	37.5287S	148.0976E	250	
Buchan	BUV	Victoria,Australia	37.4983S	148.1680E	100	From 1964-01-01 to 1966-12-31
Buchanan	D30A	North Dakota,U.S.A.	47.1082N	98.7576W	465	From 2009-08-07 to 2011-06-25
Buchanan	BIPS	New York,U.S.A.	41.2678N	73.9473W	24	
Bucharest	BUC2	Romania	44.3479N	26.0281E	77	From 1977-04-01
Bucharest	BUC1	Romania	44.3479N	26.0281E	77	From 1977-04-01
Bucharest	BUC	Romania	44.4136N	26.0967E	82	
Bucharest-Childs Park	BAPR	Romania	44.4059N	26.1190E	103	From 2003-11-06
Bucharest-Geological Museum	BGMR	Romania	44.4553N	26.0851E	123	From 1997-11-13
Bucharest-Geotec Company	BTMR	Romania	44.4370N	26.1067E	140	From 2001-01-10
Bucharest-INCERC-borehole	BBIR	Romania	44.4411N	26.1618E	-88	From 2002-10-29 to 2008-11-28
Bucharest-INCERC-Test Bldg	RBAR	Romania	44.4409N	26.1624E	115	From 2004-05-10 to 2008-11-28
Bucharest-Old Court	BVCR	Romania	44.4301N	26.1017E	112	From 2001-01-17
Bucharest-Scientist's House	BSTR	Romania	44.4457N	26.0984E	125	From 2000-10-31
Bucharest-Stefan cel Mare Str.	BLHR	Romania	44.4525N	26.1122E	149	From 2001-05-08
Buchberg	BUB	Switzerland	47.7490N	8.6030E	740	From 1971-12-01 to 1980-11-10
Buchs, Altendorf	SBUA2	Switzerland	47.1591N	9.4710E	464	From 2011-05-01
Buchserberg Malbun	SBUB	Switzerland	47.1459N	9.4342E	1371	From 2010-08-25
Buchs, Hochschule	SBUH	Switzerland	47.1726N	9.4740E	448	From 2012-09-03
Buckhannon	BZ-WV	West Virginia,U.S.A.	38.7983N	80.3494W	457	
Buckhannon	Q55A	West Virginia,U.S.A.	38.9952N	80.0812W	657	From 2012-12-17
Buckhannon	BZ-	West Virginia,U.S.A.	38.7983N	80.3494W	457	
Buckingham	BU-QB	Quebec,Canada	45.7675N	75.5403W	183	From 1962-07-24 to 1962-10-05
Buckingham	BU-	Quebec,Canada	45.7675N	75.5403W	183	From 1962-07-24 to 1962-10-05
Buck Lake	BUKO	Ontario,Canada	45.4423N	79.3989W	317	From 2009-05-19
Buckleboo	BBOO	South Australia,Australia	32.8102S	136.0588E	321	From 1995-12-08
Bucklebury West	BUW	England,United Kingdom	51.4094N	1.2244W	125	
Buck Mountain	BUCK	Oregon,U.S.A.	44.1973N	122.9862W	964	
Buckrabanyule	BUCM	Victoria,Australia	36.2384S	143.4981E	200	
Bucksport	BPM	Maine,U.S.A.	44.6317N	68.7893W	80	
Buco	VBU	Luzon,Philippines	14.0870N	120.9870E		
Bucovina Array	BURAR	Romania	47.6148N	25.2168E	1150	
Bucovina Ar. Site	BUR08	Romania	47.6440N	25.2002E	1214	
Bucovina Ar. Site	BUR07	Romania	47.6426N	25.2324E	1230	
Bucovina Ar. Site	BUR03	Romania	47.6085N	25.2178E	1202	
Bucovina Ar. Site	BUR05	Romania	47.6326N	25.2175E	1182	
Bucovina Ar. Site	BUR06	Romania	47.6169N	25.2444E	1211	
Bucovina Ar. Site	BUR04	Romania	47.6182N	25.2122E	1160	
Bucovina Ar. Site	BUR09	Romania	47.6164N	25.1902E	1253	
Bucovina Ar. Site	BUR01	Romania	47.6147N	25.2167E	1149	
Bucovina Ar. Site	BUR02	Romania	47.6187N	25.2209E	1142	
Bucures@17ti--IRSA	BUCF	Romania	44.5018N	26.1416E	83	
BUCURESTI	SGEB	Romania	44.3812N	26.1369E	80	From 2008-10-29
Bucuresti-Nicolae Titulescu	DTIR	Romania	44.4527N	26.0717E	91	From 2008-11-20
Budapest	BUD	Hungary	47.4836N	19.0239E	196	
Budderoo	BUDM	New South Wales,Australia	34.6763S	150.6707E	604	
Budock Water	CBW1	England,United Kingdom	50.1482N	5.1144W	94	From 1981-01-01
Budoia	BDO	D'Entrecasteaux Islands,Papua New Guinea	9.6789S	150.8490E	1	From 1969-07-23 to 1969-07-28
Budva	BDV	Montenegro	42.2834N	18.8279E	385	From 1983-12-25 to 2003-06-02
Buenavista	BUE	Veracruz,Mexico	19.4380N	96.5590W	200	
Buena Vista	BUEV	Costa Rica	10.7982N	85.4070W	807	From 2000-01-01
Buena Vista	BUS	Costa Rica	9.5553N	83.7583W	3487	
Buena Vista	BVA	Guatemala	14.6667N	90.6373W	2262	From 1973-03-01
Buenos Aires	BUAI	Costa Rica	10.8770N	85.3320W	392	
Buenos Aires	BAA	Buenos Aires,Argentina	34.5917S	58.4833W	25	
Buenos Aires	EDBA	Costa Rica	9.1630N	83.2750W	401	
Buenos Aires	BUAY	Trinidad and Tobago	10.1072N	61.6862W		
Buffalo	BUF	New York,U.S.A.	42.9255N	78.8528W	195	From 1912-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Buffalo Canyon	BFC	Nevada,U.S.A.	38.8940N	119.6080W	1734	From 1978-01-01
Buffalo-Larkin	BFF	New York,U.S.A.	42.8475N	78.6442W	230	From 1951-03-01 to 1999-08-25
Buffalo Meadows, Empire	N06A	Nevada,U.S.A.	40.7484N	119.8346W	1341	From 2006-07-12 to 2008-04-14
Buffelsbos	BUFB	Cape Province,South Africa	34.1510S	24.7420E	109	From 2008-09-24
Buffelsfontein	BFS	Transvaal,South Africa	26.8983S	26.7850E	1310	From 1983-01-01 to 2000-09-01
Buffelsfontein	BFSD	Transvaal,South Africa	26.8650S	26.7860E	1374	From 2008-04-07
Buffer Zone	CBZL	California,U.S.A.	37.6917N	121.7160W	175	From 1989-02-07
Buga	BUGC	Colombia	3.8933N	76.2569W	1200	
Bugetsay	BUGS	Kazakhstan	50.1200N	59.1000E	280	From 1974-07-13
Buhlerhohe	BUH	Baden-Wurttemberg,Germany	48.6755N	8.2284E	750	From 1967-02-01
Buia	BUA	Italy	46.2183N	13.1233E	320	From 1977-05-06
Buia	BUII	Italy	46.2183N	13.1233E	320	From 1977-05-06
Building 67, Lawrence Berkeley Lab, Berkeley, CA	BL67	California,U.S.A.	37.8749N	122.2543W	736	From 2011-04-15 to 3000-12-31
Building 88, Lawrence Berkeley Lab, Berkeley, CA	BL88	California,U.S.A.	37.8772N	122.2543W	602	From 2011-01-25 to 3000-12-31
Buin Zahra, Qazvin	QBNZ	Iran	35.6370N	50.1947E	2092	From 2012-03-01
Bujalance, Cordoba	E022	Spain	37.9010N	4.3819W	292	From 2007-09-25 to 2009-06-24
Buka	BUKA	Bougainville,Papua New Guinea	5.3958S	154.6809E	55	From 2013-05-28
Bukene	MKRE	Tanzania,United Republic of Tanzania	4.2818S	32.9037E	1174	
Bukit Timah Dairy	BTDF	Singapore	1.3608N	103.7729E	64	
Bukoba	BKBA	Tanzania,United Republic of Tanzania	1.3643S	31.8118E	1284	
Bulawayo	BUL	Zimbabwe	20.1433S	28.6133E	1341	From 1958-01-31
Bulawayo	BLWY	Zimbabwe	20.1400S	28.6100E	1348	
Bulengo	BULE	Democratic Republic of the Congo	1.6280S	29.1380E	1480	
Bulgan	BLGM	Mongolia	48.7900N	103.5300E	1210	
Bulgheria - Camerota	BULG	Italy	40.0783N	15.3776E	815	From 2006-08-07
Bullion Camp, Hudson Bay	BULN	Nunavut,Canada	66.3971N	93.1252W	330	From 2006-08-17
Bull Mountain	BMBC	British Columbia,Canada	56.0450N	122.1310W	1100	
Bull Pasture Mountain, McDowell	R56A	Virginia,U.S.A.	38.4071N	79.4031W	902	From 2013-06-22
Bull Run Dam	BULL	Oregon,U.S.A.	45.4461N	122.1547W	222	
Bulochka	BLCS	Kamchatskaya Oblast',Russia	53.1930N	158.7940E	500	
Bulolo	BLLO	Papua New Guinea	7.2020S	146.6200E	700	From 1988-06-10
Bulukumba	BKSI	Sulawesi,Indonesia	5.3219S	120.1224E	0	From 2007-12-01
Bulusan	VBN	Luzon,Philippines	12.7320N	124.0250E		
Buluus	BLSR	Sakha,Russia	61.3600N	129.0300E	105	From 2012-03-27
Bumble Bee	BBUT	Utah,U.S.A.	40.7455N	112.0112W	1291	
Bungee Jump	BUNG	Nepal	27.8772N	85.8908E	1191	From 2001-10-13 to 2002-10-23
Bunker Hill	BKHT	Tennessee,U.S.A.	35.5320N	83.9360W	843	From 1983-11-10
Bunkhouse Ranch, Marshall	139A	Texas,U.S.A.	32.6795N	94.3927W	59	From 2010-04-30 to 2012-01-24
Bunnell	658A	Florida,U.S.A.	29.4220N	81.2578W	11	From 2012-02-07
Bunnythorpe	BUN	North Island,New Zealand	40.2850S	175.6302E	60	From 1932-10-01 to 1968-11-12
Buntu Taipa	BUNI	Sulawesi,Indonesia	3.6578S	120.3230E	240	
Bunyan	BNN	Turkey	38.8520N	35.8460E	1350	
Burakin	WA4	Western Australia,Australia	30.6019S	117.2250E	320	From 1986-04-22
BURAR	BUR33	Romania	47.6351N	25.2008E	1249	From 2008-01-11
BURAR	BUR32	Romania	47.6330N	25.1805E	1328	From 2008-01-11
Burdekin Lookout	BURD	Queensland,Australia	20.6232S	147.1218E	291	
Burdett	R31A	Kansas,U.S.A.	38.2888N	99.5271W	667	From 2009-05-17 to 2011-03-19
Burdur/Bucak-Gˆ…ndo¯du	BUCA	Turkey	37.3277N	30.5593E	812	From 2014-12-05
BURDUR-Merkez	BRDR	Turkey	37.6963N	30.0613E	935	From 2011-09-26
Bureau des Mines et l'Energie	NQBME	Haiti	18.5627N	72.2968W	84	
Burgazada	BRGZ	Turkey	40.8810N	29.0642E	86	From 2009-01-01
Burgazada-Istanbul	BRGA	Turkey	40.8846N	29.0650E	67	From 2012-09-12
Burgeitz	BGG	Rheinland-Pfalz,Germany	50.2060N	7.3372E	140	From 1977-05-02
Burj al 'Arab	HBRG	Egypt	30.5743N	29.8393E	130	
Burke	BUI	Idaho,U.S.A.	47.4650N	115.7820W	590	
Burlington	K43A	Wisconsin,U.S.A.	42.7044N	88.3320W	264	From 2011-10-17 to 2013-11-27
Burlington	BUR	Vermont,U.S.A.	44.4800N	73.1967W	100	From 1932-12-01 to 1956-12-31
Burlington	RD01	Ontario,Canada	43.4109N	79.8356W	142	
Burlington	BUO	Ontario,Canada	43.3617N	79.7450W	88	From 1979-12-12 to 1980-05-01
Burma	BURJ	Jordan	32.2418N	35.8042E	1045	From 1983-09-01
Burn	BUWY	England,United Kingdom	53.7429N	1.0665W	5	
Burnet	434A	Texas,U.S.A.	30.8142N	98.2690W	462	From 2009-11-08 to 2011-10-03
Burnie High School	BNE	Tasmania,Australia	41.0625S	145.8653E	70	
Burns	BURN	Oregon,U.S.A.	43.5731N	119.1303W	1615	
Burnside Ranch, Stapleton	M29A	Nebraska,U.S.A.	41.4441N	100.6892W	952	From 2009-05-12 to 2011-04-07
Burnt Mountain Array Beam Reference Point	BMAR	Alaska,U.S.A.	67.4291N	144.5806W	767	From 2006-09-11
Burnt Mountain Array Site 1	BM01	Alaska,U.S.A.	67.4507N	144.5273W	474	From 2006-09-11
Burnt Mountain Array Site 2	BM02	Alaska,U.S.A.	67.4297N	144.4915W	539	From 2006-09-11
Burnt Mountain Array Site 3	BM03	Alaska,U.S.A.	67.4192N	144.6071W	813	From 2006-09-11
Burnt Mountain Array Site 3	BM3	Alaska,U.S.A.	67.4192N	144.6071W	813	From 1993-07-01
Burnt Mountain Array Site 4	BM04	Alaska,U.S.A.	67.4181N	144.5583W	525	From 2006-09-11
Burnt Mountain Array Site 5	BM05	Alaska,U.S.A.	67.4291N	144.5806W	767	From 2006-09-11
Burnt Peak	BTPC	California,U.S.A.	34.6823N	118.5740W	1702	
Burrinjuck	BJEM	New South Wales,Australia	34.9505S	148.6460E	400	
Burrinjuck Dam	BJDM	New South Wales,Australia	35.0041S	148.5819E	380	
Bursa	IGD	Turkey	40.2641N	29.2015E	165	From 2007-03-29
Burton	P54A	West Virginia,U.S.A.	39.6020N	80.4796W	473	From 2013-01-27
Burton Butte	BUOR	Oregon,U.S.A.	42.2785N	122.2453W	1797	
Burton Farm, Hornbeak	U44B	Tennessee,U.S.A.	36.3391N	89.3507W	136	From 2011-08-04 to 2013-03-09
Burvik	BURU	Sweden	64.5836N	21.3769E	100	From 2000-09-01
Burwash Landing	BH-	Yukon Territory,Canada	61.3706N	139.1414W	861	From 1965-10-16 to 1965-11-15
Burwash Landing	BH-YK	Yukon Territory,Canada	61.3706N	139.1414W	861	From 1965-10-16 to 1965-11-15
Busan	KSBUS	Republic of Korea	35.2486N	129.1125E	92	From 2001-12-28
Busan_acc	KSBSA	Republic of Korea	35.1048N	129.0319E	0	From 2007-12-12
Busby, Falmouth	M65A	Massachusetts,U.S.A.	41.5620N	70.6466W	22	From 2012-03-30
Bush Stream	BSP	South Island,New Zealand	43.8688S	170.1043E	750	From 1975-06-18 to 1983-11-21
Bushy Park	BSZ	North Island,New Zealand	39.7970S	174.9314E	150	From 1990-06-20 to 2003-11-28
Busso	BSSO	Italy	41.5461N	14.5938E	1010	From 2005-01-17
Butare	BTR	Rwanda	2.6167S	29.7333E	1648	
Butare	AST	Rwanda	2.6167S	29.7333E	1648	
Butcher Ranch, Price	P17A	Utah,U.S.A.	39.4730N	110.7400W	1687	From 2007-07-14 to 2009-05-21
Butedale	BUTB	British Columbia	53.0630N	128.4633W	1094	From 2014-08-21
Butembo	BTC	Democratic Republic of the Congo	0.1333N	29.2667E	1720	From 1969-01-01
Butler Butte	BBOR	Oregon,U.S.A.	42.8868N	122.6796W	1671	From 1992-06-01
Butler Peak	BTL	California,U.S.A.	34.2572N	117.0030W	2526	
Butner	BUNC	North Carolina,U.S.A.	36.1764N	78.7631W	122	
Buton	BTNI	Sulawesi,Indonesia	5.0000S	122.9170E		
Butte	F15A	Montana,U.S.A.	45.8409N	112.4929W	1995	From 2006-10-27 to 2009-07-10
Butte	BUT	Montana,U.S.A.	46.0133N	112.5630W	1758	
Butte a Klehm	BKM	Vanuatu	17.6683S	168.2430E	270	
Butte Creek Rim	LBCM	California,U.S.A.	40.8368N	121.3499W	1525	
Butterfield Farm, Chambers	L31A	Nebraska,U.S.A.	42.1760N	98.8387W	670	From 2009-09-10 to 2011-08-22
Buttle Lake	BTB	British Columbia,Canada	49.4683N	125.5210W	1640	From 1984-09-01
Butuan	BUTP	Mindanao,Philippines	8.9690N	125.6210E	68	
Butuan	BTN	Mindanao,Philippines	8.9333N	125.5330E	2	From 1914-01-01 to 1943-12-31
BUYEO	KSBUY	Republic of Korea	36.2683N	126.9204E	11	From 2006-11-24
Buynaksk	BUJR	Dagestan,Russia	42.8250N	47.1083E	480	
Buyukada	BASD	Turkey	40.8637N	29.1240E	127	From 2012-05-13
Buyukada	KRGZ	Turkey	40.8421N	29.1107E	7	From 2012-05-16
Buyukada	BUY	Turkey	40.8523N	29.1181E	100	From 2001-03-01
Buyukada	BADT	Turkey	40.8523N	29.1175E	175	
Buyukada-Istanbul	BUYA	Turkey	40.8694N	29.1278E	40	From 2012-09-12
Buyukkizoglu-Ladik(Samsun)	KIZO	Turkey	40.9005N	35.9334E	940	From 2013-12-04
Buzau	BUZR	Romania	45.1503N	26.8095E	139	From 2006-07-28
Buzias	BZS	Romania	45.6167N	21.6167E	260	
Buzzard Lagoon Road	JBZM	California,U.S.A.	37.0178N	121.7860W	213	From 1975-10-07
Buzz No.'s Place	BZNA	California,U.S.A.	33.4915N	116.6670W	1301	
Byrd	BYR	Marie Byrd Land	80.0167S	119.5170W	1515	From 1957-01-01 to 1969-01-31
Byrd (S.R.I.)	BSA	Marie Byrd Land	80.0055S	119.0430W	1449	
Byrd--Stanford Research Institute	BYA	Marie Byrd Land	80.0096S	119.4810W	1453	
Byrd--Stanford Research Institute	BY1	Marie Byrd Land	80.0055S	119.0430W	1449	
Byrd--Stanford Research Institute	BY2	Marie Byrd Land	80.0773S	119.6830W	1449	
Byrd--Stanford Research Institute	BY3	Marie Byrd Land	79.9456S	119.7180W	1452	
Byron Hot Springs	CBSM	California,U.S.A.	37.7968N	121.6460W	279	
Byron Hot Springs, Alameda County	CBSNC	California,U.S.A.	37.8178N	121.6413W	28	From 1982-04-20
Byron's Ledge	BYL	Hawaii,U.S.A.	19.4120N	155.2600W	1059	
Bystrovka, Novosibirskaya Oblast', Russia	BSTK	Novosibirskaya Oblast',Russia	54.5677N	82.6535E	118	From 2003-04-10
Bytom	BYT	Poland	50.3622N	18.9144E	283	From 1960-01-01 to 1972-01-01
Byxelkrok	BYXU	Sweden	57.2899N	17.0083E	10	From 2002-11-05

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Byzanz	BYZN	Turkey	40.8748N	28.9735E	19	From 2006-09-28
C01	C01	Belgium	50.6700N	4.5700E	147	
C02	C02	Belgium	50.6200N	4.9800E	140	
C03	C03	Belgium	50.6800N	5.2700E	117	
C04	C04	Belgium	50.2100N	5.0000E	190	
C05	C05	Belgium	50.4800N	4.9200E	160	
C06	C06	Belgium	50.3500N	5.5700E	190	
C07	C07	Belgium	50.2400N	5.9300E	475	
C08	C08	Belgium	50.3420N	6.3130E	485	
C11	C11	Belgium	50.0400N	5.4000E	550	
C12	C12	Belgium	50.0600N	5.7900E	430	
C13	C13	Belgium	49.9700N	5.2200E	325	
C14	C14	Belgium	49.8300N	5.3800E	400	
C16	C16	Belgium	49.8000N	5.1400E	290	
C18	C18	Belgium	50.6680N	4.5080E	125	
C@19adrg	CADS	Slovenia	46.2280N	13.7369E	700	From 2003-10-01
C@19res@19njevec Ostr	CRES	Slovenia	45.8260N	15.4569E	431	
C20	C20	Luxembourg	49.8660N	5.8580E	400	
C21	C21	Luxembourg	49.8100N	6.3280E	220	
C22	C22	Luxembourg	49.8070N	6.2670E	300	
C23	C23	Luxembourg	49.5970N	6.0040E	395	
CA02	CA02	Romania	47.0110N	27.4310E	414	
CA03	CA03	Romania	46.8470N	27.2880E	229	
CA04	CA04	Romania	46.6940N	27.1250E	239	
CA05	CA05	Romania	46.4860N	26.9970E	187	
CA06	CA06	Romania	46.3150N	26.8880E	421	
CA07	CA07	Romania	46.1980N	26.7430E	276	
CA08	CA08	Romania	45.9520N	26.5720E	632	
CA09	CA09	Romania	45.8910N	26.1880E	596	
CA10	CA10	Romania	45.7600N	26.2710E	1026	
CA11	CA11	Romania	45.3550N	26.0400E	673	
CA12	CA12	Romania	45.1940N	25.8930E	447	
CA13	CA13	Romania	45.0930N	25.8490E	402	
Ca@14lilabad	GLBA	Azerbaijan	39.2420N	48.3930E	147	From 2003-08-01
CA15	CA15	Romania	44.8570N	25.6430E	226	
CA16	CA16	Romania	44.7090N	25.5080E	220	
CA17	CA17	Romania	44.4220N	25.3220E	188	
CA18	CA18	Romania	44.1840N	25.1980E	122	
CA19	CA19	Romania	44.0020N	25.0210E	101	
CA20	CA20	Romania	43.8250N	24.8380E	127	
Cabaceiras do Paraguassu - BA	NBCP0	Bahia,Brazil	12.5886S	39.1810W	225	From 2011-09-27 to 2013-02-21
Cabaceiras do Paraguassu - BA	NBCP	Bahia,Brazil	12.5937S	39.1820W	232	From 2013-02-22
Cabagna-an	VCB	Negros,Philippines	10.3620N	123.1170E	550	
Caballo Blanco	CABA	Venezuela	7.8558N	71.5022W	1600	From 1984-01-01
Cabbage Hill	CHOR	Oregon,U.S.A.	45.5908N	118.5790W	1076	
Cabia	FCAB	Italy	46.4660N	13.0370E	752	From 2011-12-18
Cabildo	CBCH	Coquimbo,Chile	32.4269S	71.0689W	175	
Cable	O50A	Ohio,U.S.A.	40.1468N	83.6199W	399	From 2012-06-15
Cabo de Gata	ACBG	Spain	36.7687N	2.1938W	64	
Cabonga Reservoir	CBRQ	Quebec,Canada	47.3091N	76.4707W	307	
Cabo Pasado	CABP	Ecuador	0.3865S	80.4287W	125	From 2009-04-08
Caborca	CBS	Sonora,Mexico	30.7283N	112.1600W	300	From 1972-07-30
Cabo Rojo, PR	CRPR	Puerto Rico	18.0064N	67.1096W	4	From 2005-03-08
Cabramurra	CAB	New South Wales,Australia	35.9267S	148.4330E	1610	From 1959-01-01 to 1972-08-09
Cabramurra	CBR	New South Wales,Australia	35.9433S	148.3930E	1537	From 1972-08-09
Cabrayil	DZB	Azerbaijan	39.4100N	47.0300E	680	From 1981-01-01 to 1993-01-01
Cabril	PCAB	Portugal	41.7102N	8.0270W	577	
Cacacuatique	CAHU	El Salvador	13.7707N	88.2110W	1682	
Cacapava Do Sul	CPSB	Rio Grande do Sul,Brazil	30.4055S	53.4395W	227	
Cache Creek	CK-BC	British Columbia,Canada	50.8253N	121.3278W	518	From 1962-07-22 to 1962-10-05
Cache Creek	CK-	British Columbia,Canada	50.8253N	121.3278W	518	From 1962-07-22 to 1962-10-05
Cachucha Ranch	CCN	New Mexico,U.S.A.	36.8333N	106.8330W		
Cack Lake	CLSB	British Columbia,Canada	52.7587N	122.5551W	792	From 2006-09-02
Caconde	CACB	Sao Paulo,Brazil	21.6802S	46.7326W	1381	From 1993-03-01
Cactus City	CTCC	California,U.S.A.	33.6552N	115.9901W	538	
Cactus Flat W	WCFM	California,U.S.A.	36.2083N	117.9040W	1384	From 1975-09-26
Cactus Flat West	CFWM	California,U.S.A.	36.2083N	117.9040W	1384	From 1975-09-26
Cactus Peak	CTS	Nevada,U.S.A.	37.6565N	116.7251W	1877	From 1979-04-24 to 2002-10-10
Cactus Peak W	WCPM	California,U.S.A.	36.0710N	117.8500W	1494	From 1975-09-26
Cactus Peak West	CPTM	California,U.S.A.	36.0710N	117.8500W	1494	From 1975-09-26
Cadarache	CDR	Provence-Cote d'Azur,France	43.6750N	5.7669E	368	From 1962-01-10
Caddo, Fort Cobb	W33A	Oklahoma,U.S.A.	35.1518N	98.4686W	414	From 2009-10-27 to 2011-09-04
Cadiz	EXCA	Spain	36.5230N	6.2850W	57	
Cady Mountains	CAD	California,U.S.A.	34.8167N	116.3330W		
Cadyville	H59A	New York,U.S.A.	44.6455N	73.6905W	355	From 2013-08-24
Caete la Real, Malaga	E006	Spain	36.9491N	5.0446W	1039	From 2007-10-09 to 2009-06-23
Cafayete	FSA	Salta,Argentina	26.1112S	65.9792W	1655	
Cagayan de Oro	CGP	Mindanao,Philippines	8.4548N	124.6942E	50	From 1977-10-01
Cagayan Oro	OMP	Mindanao,Philippines	8.4550N	124.6940E	50	From 1977-10-01
Caggiano	CGG3	Italy	40.5420N	15.5225E	1067	
Cagliari Citta	CCI	Sardinia,Italy	39.2208N	9.1172E	50	
Cagliari Serpeddi	CA2	Sardinia,Italy	39.3622N	9.2971E	1050	From 1978-06-01
Cagliari Serpeddi	CGL	Sardinia,Italy	39.3622N	9.2972E	1050	From 1978-06-01
Cagnes-sur-Mer	CAGN	Provence-Cote d'Azur,France	43.6670N	7.1460E	96	From 2003-06-26
Caguas	CAG	Puerto Rico	18.2394N	66.0353W	350	From 1974-08-16 to 1975-07-17
Cahill	CAHL	Alaska,U.S.A.	58.0525N	155.3015W	807	From 1996-08-01
Cahill Ridge	JCHM	California,U.S.A.	37.5170N	122.3760W	323	
Cahto Peak	KCPM	California,U.S.A.	39.6863N	123.5824W	1261	From 1979-11-09
Cahuilla Valley	CAHC	California,U.S.A.	33.5037N	116.6985W	1219	
Cahul	KGL	Moldova	45.9050N	28.2010E	48	
Caicara del Orinoco	CAOV	Venezuela	7.3260N	66.3220W	72	From 2002-10-03
Caico	CAI	Rio Grande do Norte,Brazil	6.5260S	37.1380W	190	From 1983-05-31
Caiguire	CAIV	Venezuela	10.4695N	64.1731W	40	From 1993-04-01
Cairn Curran	CCRM	Victoria,Australia	36.9906S	143.9722E	230	
Cairnmuir Flats	CFC	South Island,New Zealand	45.1826S	169.2923E	576	From 1986-12-09 to 1996-04-28
Cairnmuir Mts	CMCZ	South Island,New Zealand	45.1476S	169.2751E	1039	From 1986-12-09 to 1996-04-29
Cairns Hard Rock	CN1H	Queensland,Australia	16.9110S	145.7110E	134	From 2012-01-01
Cairns-h seis/acc	CNS1	Queensland,Australia	16.9541S	145.7359E	129	
Cairns Soft Rock	CN2S	Queensland,Australia	17.0215S	145.7240E	59	From 2012-01-01
Cairns State High School	AUCSH	Queensland,Australia	16.9200S	145.7700E	17	From 2013-08-11
Cairo Montenotte	CKI	Italy	44.4197N	8.2786E	350	From 1983-10-01 to 2002-02-07
Cajamarca	PP16	Peru	7.1300S	78.5160W	2750	
Cakiroluk	DNZL	Turkey	37.6897N	29.0464E	1716	From 2002-11-06 to 2013-06-01
Calabasas	CALB	California,U.S.A.	34.1401N	118.6284W	276	From 1994-01-01 to 2002-12-31
Calabogie	G55A	Ontario,Canada	45.2532N	76.7187W	228	From 2012-11-09
Calabor	ECAL	Spain	41.9413N	6.7371W	950	
Calabrutti - M.te Cervialto	MCRV	Italy	40.7826N	15.1684E	1191	From 2005-07-10
Calachota	PP02	Peru	12.6273S	75.9783W	1655	
Calama	CAC	Antofagasta,Chile	22.4797S	69.0261W	2000	
Calar Alto	ACLR	Spain	37.1897N	2.5822W	1490	
Calaveras Res.	CALM	California,U.S.A.	37.4512N	121.7990W	265	From 1967-10-19
Calaveras Reservoir	CVR	California,U.S.A.	37.4512N	121.7990W	265	From 1967-10-19
Calcutta	CAL	West Bengal,India	22.5392N	88.3307E	6	
Caldarusani	CDB	Romania	44.6769N	26.2706E	85	From 1979-01-01 to 1999-08-25
Caldas Novas	COR2	Goias,Brazil	17.7433S	48.6892W	950	
Caldeira	CALA	Azores,Portugal	38.5814N	28.7019W	875	
Caldeiras da Ribeira Grande	PCALD	Azores,Portugal	37.7972N	25.4877W	272	From 2011-04-10
Caldera	CLD	Atacama,Chile	27.0833S	70.9333W		
Caldera	CDCH	Atacama,Chile	27.0674S	70.8215W	25	From 2004-07-30
Caldiran	CLDR	Turkey	39.1431N	43.9170E	2087	From 2004-12-16
Caldwell Ranch, Toyah	326A	Texas,U.S.A.	31.3165N	103.9786W	982	From 2008-03-19 to 2010-02-14
Calebasse	PMCB	Martinique,France	14.7968N	61.1487W	730	
Calectric	CLTC	California,U.S.A.	34.0928N	117.3169W	325	
Caledonia	S42A	Missouri,U.S.A.	37.7700N	90.7939W	315	From 2011-07-24 to 2013-04-07
Caledonia Mountain	LMN	New Brunswick,Canada	45.8520N	64.8060W	363	From 1981-10-28
Calern	CALN	Provence-Cote d'Azur,France	43.7522N	6.8894E	1430	From 1982-06-01
Calern	CALF	Provence-Cote d'Azur,France	43.7523N	6.9220E	1242	
Calero Reservoir	CB2	California,U.S.A.	37.1908N	121.7650W	230	From 1968-10-01 to 1968-10-16
Caleta Bueno	CTBN	Antofagasta,Chile	22.4550S	70.2515W	169	From 2007-11-25

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Caleta Campos	CCMX	Michoacan,Mexico	18.0533N	102.7500W		
Calhoun	X51A	Georgia,U.S.A.	34.5658N	84.8574W	214	From 2012-04-05
Calhoun Falls	CHF	South Carolina,U.S.A.	34.0247N	82.5867W	152	From 1977-02-14 to 1989-04-30
CALICANTO	CLCV	Venezuela	10.2633N	67.5936W	554	From 2004-06-30
Calice al Cornoviglio	CALI	Italy	44.2413N	9.8348E	410	From 1995-04-01 to 2009-09-30
Calico Hills	CDH1	Nevada,U.S.A.	36.8631N	116.3148W	1407	From 1980-02-01 to 2002-10-10
Calico Hills	CDH5	Nevada,U.S.A.	36.8631N	116.3148W	1077	From 1980-02-01 to 2002-10-10
Caliente	CQ-NV	Nevada,U.S.A.	37.9042N	114.4708W	1804	
Calif City Airpt	CCAC	California,U.S.A.	35.1525N	118.0165W	710	
California City	CALC	California,U.S.A.	35.1035N	117.9480W	722	
California State, Hayward	CSH	California,U.S.A.	37.6575N	122.0530W	170	From 1972-01-01
Calipatria	CLIC	California,U.S.A.	33.1408N	115.5270W	-59	
Cali,SGC	RAC02	Colombia	3.3720N	76.5300W	988	From 2011-09-25
Calistoga	CLS	California,U.S.A.	38.6367N	122.5850W	457	
Calitri	CLT3	Italy	40.9030N	15.4043E	525	
Calitri	CLTR	Italy	40.9000N	15.4408E	670	
Callahan	M02C	California,U.S.A.	41.3920N	122.8538W	960	From 2005-06-30 to 2007-11-14
Callao Caves	CVP	Luzon,Philippines	17.7030N	121.8220E	60	From 1976-05-01
Calls Hollow Road	CHRY	New York,U.S.A.	41.2081N	74.2211W	183	
Cal Nev Ari	W12A	Nevada,U.S.A.	35.3010N	114.8701W	774	From 2006-03-25 to 2008-10-14
Cal Poly Pomona	CPPC	California,U.S.A.	34.0602N	117.8090W	205	
Calstate	BAKC	California,U.S.A.	35.3444N	119.1044W	116	
Cal. St., Hayward	CSHM	California,U.S.A.	37.6575N	122.0530W	170	From 1972-01-01
Caltabellotta	CLTB	Sicily,Italy	37.5786N	13.2156E	957	
Caltech Broad	CBCC	California,U.S.A.	34.1401N	118.1275W	239	
Caltech Cellar	CACC	California,U.S.A.	34.1368N	118.1220W	230	
Caltech--GSA	GSA	California,U.S.A.	34.1368N	118.1283W	234	
Caltech Rob'n Pit	CRPC	California,U.S.A.	34.1362N	118.1271W	233	
Calugareni	CGN	Romania	44.1667N	26.0000E	78	
Calvario	CALV	Ecuador	1.5220S	77.9088W	1180	From 1994-01-21
Calvi	CVF	Corse,France	42.5675N	8.8694E	530	From 1975-10-01 to 1989-11-13
Calviac	CAF	Midi-Pyrenees,France	44.9258N	2.0644E	630	From 1977-09-01
Calvinia	CVNA	Cape Province,South Africa	31.4822S	19.7617E	1050	From 2004-03-01
Calvinia	CVN	Cape Province,South Africa	31.4500S	19.7617E	1050	
Calvizzano	CCLV	Italy	40.9093N	14.1639E	139	From 2008-10-01
Calx Mountain	CLX	Montana,U.S.A.	48.2084N	115.1330W	1975	
Camacho	PT10	Peru	12.0750S	76.9690W	274	From 1984-03-12
Camaiore	TCMO	Italy	43.9411N	10.3167E	41	From 2008-03-11
Cam and Jess, Hughton	140A	Louisiana,U.S.A.	32.6408N	93.5740W	56	From 2011-02-12 to 2012-11-10
Camapuan	CAMA	Mato Grosso,Brazil	19.5791S	54.1688W	482	
Camardi-Nigde	CMRD	Turkey	37.6623N	34.9902E	1234	From 2013-11-21
Camarillo Hills	CAMC	California,U.S.A.	34.2545N	119.0333W	268	
Camas Ranch	MFID	Idaho,U.S.A.	43.4151N	115.8278W	1302	
Cambria	PCBM	California,U.S.A.	35.5184N	121.0607W	164	
Cambridge	CAM	Massachusetts,U.S.A.	42.3833N	71.1167W	5	From 1908-01-01 to 1930-12-31
Cambridge Bay Array Beam Reference Point	CBAR	Northwest Territories,Canada	69.1266N	105.1120W	40	
Cambridge Bay Array Site 1	CB01	Northwest Territories,Canada	69.1760N	105.2093W		
Cambridge Bay Array Site 11	CB11	Northwest Territories,Canada	69.1509N	105.0547W		
Cambridge Bay Array Site 12	CB12	Northwest Territories,Canada	69.1371N	105.1172W		
Cambridge Bay Array Site 13	CB13	Northwest Territories,Canada	69.1183N	105.1862W		
Cambridge Bay Array Site 14	CB14	Northwest Territories,Canada	69.1305N	105.2570W		
Cambridge Bay Array Site 15	CB15	Northwest Territories,Canada	69.1426N	105.3316W		
Cambridge Bay Array Site 16	CB16	Northwest Territories,Canada	69.1722N	105.3412W		
Cambridge Bay Array Site 17	CB17	Northwest Territories,Canada	69.1991N	105.3583W		
Cambridge Bay Array Site 18	CB18	Northwest Territories,Canada	69.2125N	105.2905W		
Cambridge Bay Array Site 19	CB19	Northwest Territories,Canada	69.2322N	105.2324W		
Cambridge Bay Array Site 2	CB02	Northwest Territories,Canada	69.1939N	105.1457W		
Cambridge Bay Array Site 3	CB03	Northwest Territories,Canada	69.1620N	105.1299W		
Cambridge Bay Array Site 31	CB31	Northwest Territories,Canada	69.1266N	105.1120W		
Cambridge Bay Array Site 32	CB32	Northwest Territories,Canada	69.2420N	105.5848W		
Cambridge Bay Array Site 33	CB33	Northwest Territories,Canada	69.3894N	105.2630W		
Cambridge Bay Array Site 34	CB34	Northwest Territories,Canada	69.2688N	104.8210W		
Cambridge Bay Array Site 35	CB35	Northwest Territories,Canada	69.2628N	105.2073W		
Cambridge Bay Array Site 4	CB04	Northwest Territories,Canada	69.1483N	105.1999W		
Cambridge Bay Array Site 5	CB05	Northwest Territories,Canada	69.1592N	105.2594W		
Cambridge Bay Array Site 6	CB06	Northwest Territories,Canada	69.1885N	105.2779W		
Cambridge Bay Array Site 7	CB07	Northwest Territories,Canada	69.2033N	105.2156W		
Cambridge Bay Array Site 8	CB08	Northwest Territories,Canada	69.2228N	105.1513W		
Cambridge Bay Array Site 9	CB09	Northwest Territories,Canada	69.2125N	105.0797W		
Cambridge (NY)	CAMB	New York,U.S.A.	43.0488N	73.2967W	287	
Camden	249A	Alabama,U.S.A.	31.9752N	87.1225W	66	From 2012-01-21
Cameli-Denizli	CAME	Turkey	36.9435N	29.3023E	1391	From 2014-10-15
Camerino	CMR	Italy	43.1333N	13.0667E		
Camerino	CIO	Italy	43.1950N	13.1440E	956	
Camilla	353A	Georgia,U.S.A.	31.3474N	84.2172W	54	From 2012-03-09
Camiri	BS06	Bolivia	20.0393S	63.5187W	807	From 2012-06-01
Camlidere-ANKARA	CMDR	Turkey	40.4942N	32.4750E	1305	From 2011-08-05
Campagna	CMP3	Italy	40.6519N	15.0802E	958	
CAMPBELL BAY	CMBY	Andaman Islands,India	7.0109N	93.9266E	10	From 2008-02-13
Campbell Island	CBZ	Campbell Island,New Zealand	52.5508S	169.1590E	30	From 1966-12-01 to 1990-02-25
Campbellpur	CBP	Pakistan	33.7325N	72.2302E		From 1973-08-23 to 2009-09-20
Campbell River	CBB	British Columbia,Canada	50.0328N	125.3650W	317	From 1981-01-28
Camp Ben Lomond	JBLM	California,U.S.A.	37.1282N	122.1680W	792	From 1976-04-27
Camp Century	CCG	Greenland	77.1667N	61.1333W	1920	From 1962-11-30 to 1963-02-25
Camp Classen	CCOK	Oklahoma,U.S.A.	34.4577N	97.1556W	293	From 1994-08-10
Camp Creek Bald	CCNC	North Carolina,U.S.A.	36.0236N	82.7147W	1452	
Campeare	CAMV	Venezuela	10.5510N	63.3220W	1002	
Camp Elliot	CPE	California,U.S.A.	32.8889N	117.1051W	150	From 1972-11-01
Camp Elliot, Miramar	109C	California,U.S.A.	32.8889N	117.1051W	150	From 2004-05-04
Camp Garcia	CGV	Puerto Rico	18.1328N	65.3173W	130	From 1978-03-01 to 2002-10-10
Camp Murray	MURR	Washington,U.S.A.	47.1200N	122.5600W	10	
Campo	T27A	Colorado,U.S.A.	37.0614N	102.7214W	1366	From 2008-12-17 to 2010-11-08
Campo	CP-CL	California,U.S.A.	32.7289N	116.3711W	1189	From 1961-10-01 to 1966-03-31
Campo	CP-	California,U.S.A.	32.7289N	116.3711W	1189	From 1961-10-01 to 1966-03-31
Campo Grande	CGTX	Texas,U.S.A.	31.3267N	105.7100W	1305	
Campone	CM6*	Sicily,Italy	38.2069N	15.4603E	0	From 1966-01-01 to 1967-01-01
Campora	CMPR	Italy	40.3181N	15.3030E	732	From 2005-10-13
Campos	CMPB	Brazil,Brazil	21.7840S	41.4291W	56	
Campos-RJ	CAM01	Rio de Janeiro,Brazil	21.8257S	41.6574W	31	From 2011-01-30
Campotenese	T0715	Italy	39.8384N	16.0683E	1044	From 2011-11-28 to 2999-12-31
Campotosto	CAMP	Italy	42.5358N	13.4090E	1283	From 2003-10-06
Campotto Po	CMPO	Italy	44.5808N	11.8056E	2	From 2007-02-21
Camp Pendleton	CPT	California,U.S.A.	33.3025N	117.3400W	61	From 1975-01-01
Camp Six	KSXM	California,U.S.A.	41.8308N	123.8768W	1120	
Camp Six Broadband	KSXB	California,U.S.A.	41.8304N	123.8769W	1136	
Camp Tracy	CTU	Utah,U.S.A.	40.6925N	111.7503W	1731	
Campulung	CMP	Romania	45.2683N	25.0383E	598	From 1943-03-01
Campus Universitario de Almeria	AALM	Spain	36.8300N	2.4017W	10	
Camp Williams	CWU	Utah,U.S.A.	40.4459N	112.1020W	1945	From 1974-10-01
Camsell Lake	CAMN	Northwest Territories,Canada	63.7321N	110.8989W	420	
Cana Brava	CAN3	Goias,Brazil	13.0993S	48.2898W	333	From 2008-01-01
Canada Road	AN7*	California,U.S.A.	37.0254N	121.4845W	300	From 1967-10-13
Canada Road	CDC	California,U.S.A.	37.0254N	121.4845W	300	From 1967-10-13
Canada Road	HCAM	California,U.S.A.	37.0254N	121.4845W	300	From 1967-10-13
Canadian Museum of Nature	OTNM	Ontario,Canada	45.4121N	75.6891W	72	From 2003-06-11
Canakkale	CANB	Turkey	40.0167N	27.0624E	230	From 2004-10-02
ˆanakkale/Ayvac¯–k-Kocak¯¶y	KOCA	Turkey	39.5022N	26.1383E	292	From 2014-12-01
CANAKKALE_Bayramic	BAYC	Turkey	39.7413N	26.5469E	349	From 2011-09-30
ˆanakkale/Eceabat-Seddulbahir	ECEA	Turkey	40.0445N	26.1742E	23	From 2014-12-01
Canale Monterano - RM	TO03	Italy	42.1280N	12.0482E	223	From 2008-05-14 to 2009-04-02
Canalobre	ACU	Spain	38.5114N	0.4106W	580	From 1985-03-01
Canan¨ia-SP	JAC01	Sao Paulo,Brazil	24.8114S	48.1024W	297	From 2011-01-30
Canberra	CAN	Australian Capital Territory,Australia	35.3208S	148.9990E	700	From 2006-08-20
Canberra Magnetic Observatory	CNB	Australian Capital Territory,Australia	35.3150S	149.3630E	850	
Candarli	CAND	Turkey	38.9543N	26.8030E	158	From 2011-07-24
Candela	FG4	Italy	41.1319N	15.5175E	450	
Candelaria	PCAN	Azores,Portugal	38.4637N	28.4853W	400	
Candelaria	PCND	Azores,Portugal	38.4691N	28.4624W	650	From 2005-09-01
Candelaria	CANR	Nevada,U.S.A.	38.1097N	118.1932W	2015	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Candelarita	CANG	Costa Rica	9.8010N	84.3620W	294	
Candle	CDL	Alaska,U.S.A.	66.1140N	161.6570W	65	
Candoni, Negros Occidental, Philippines	CNOP	Negros	9.8277N	122.6394E	50	From 2014-04-09
Canebrake	CBKC	California,U.S.A.	32.8995N	116.2520W	414	
Cane Creek	CCAR	Arkansas,U.S.A.	33.9172N	91.7716W	72	
Canehill	V38A	Arkansas,U.S.A.	35.8626N	94.4077W	372	From 2010-06-15 to 2012-02-17
Canela	CNLB	Rio Grande do Sul,Brazil	29.3143S	50.8527W	705	
Caneva	CAE	Italy	46.0067N	12.4367E	870	From 1983-04-23
Canfield Road	NCFM	California,U.S.A.	38.3213N	122.7960W	98	From 1970-08-14
Canfranc	CANF	Spain	42.7637N	0.5175W	1205	From 2011-03-04
Canisius	CANY	New York,U.S.A.	42.9255N	78.8528W	192	From 1978-12-01 to 1982-03-18
Canisius College, New York, USA	CCNY	New York,U.S.A.	42.9273N	78.8551W	194	From 2013-12-05
Cankiri	CANT	Turkey	40.6061N	33.6196E	815	
Canlaon	VCN	Negros,Philippines	10.3970N	123.2070E	590	
Cannet Maures	CMF	Provence-Cote d'Azur,France	43.3573N	6.3895E	152	
Canning Dam	CANN	Western Australia,Australia	32.1522S	116.1277E	135	
Cannon Point	CAW	North Island,New Zealand	41.1072S	175.0665E	283	From 1976-05-11
Canoas	CDITO	Costa Rica	8.5733N	82.8727W	118	
Canossa - RE	RE02	Italy	44.5672N	10.4673E	500	From 2008-12-28 to 2009-02-12
Canovanas	CBYP	Puerto Rico	18.2716N	65.8566W	606	
Canovanas	CBYB	Puerto Rico	18.3000N	65.8000W	550	
Cantantal	ACAN	San Luis,Argentina	32.2742S	67.1885W	634	
Canterbury Laser	CRLZ	South Island,New Zealand	43.5747S	172.6232E	55	From 1996-02-22
Cantone	ATCA	Italy	43.5659N	12.2661E	687	From 2010-05-18
Cantwell	CNA	Alaska,U.S.A.	63.3964N	148.9450W	700	From 1971-08-01 to 1976-09-30
Canyon Day Junior High, Whiteriver	Y18A	Arizona,U.S.A.	33.7776N	110.0341W	1512	From 2007-04-11 to 2009-02-05
Canyon Junction	CJW	Wyoming,U.S.A.	44.7343N	110.4980W	2395	From 1974-10-01 to 1999-08-25
Canyon Junction	YPCJ	Wyoming,U.S.A.	44.7438N	110.4975W	2426	
Canyonlands National Park, Moab	R18A	Utah,U.S.A.	38.3862N	109.8942W	1828	From 2007-06-16 to 2009-03-07
Cao Bang	CBVB	Vietnam	22.6523N	106.1943E	222	From 2006-01-01
Capacho	CAPV	Venezuela	7.8650N	72.3140W	1800	From 2002-08-14
Cape Campbell	CCW	South Island,New Zealand	41.7491S	174.2172E	216	From 1981-01-16 to 2004-04-14
Cape Campbell	CMWZ	North Island,New Zealand	41.7490S	174.2139E	281	From 2003-06-15
Cape Cod National Seashore	L65A	Massachusetts,U.S.A.	42.0295N	70.0528W	50	From 2013-09-27
Cape D'Aguilar	HKCD	Hong Kong,China	22.2092N	114.2597E	40	From 1997-04-23
Cape Darby	CDY	Alaska,U.S.A.	64.3475N	162.7840W	561	
Cape Douglas	CDA	Alaska,U.S.A.	58.9553N	153.5290W	386	From 1974-01-01 to 1981-08-16
Cape Douglas	CDD	Alaska,U.S.A.	58.9298N	153.6430W	622	From 1981-08-22
Cape Frico	AR7	Costa Rica	9.8503N	85.1164W	582	From 1976-05-15 to 1999-08-25
Cape Girardeau	CGM	Missouri,U.S.A.	37.3167N	89.5333W	134	From 1938-01-01
Cape Gloucester Airport	CGA	New Britain,Papua New Guinea	5.4500S	148.4200E	15	
Cape Good Hope	CGH	Cape Province,South Africa	33.9333S	18.4833E	13	
Cape Hallett	HLL	Victoria Land	72.3139S	170.2170E	2	From 1957-04-01 to 1964-10-31
Cape Kidnappers	CKHZ	North Island,New Zealand	39.6582S	177.0777E	209	From 2007-08-29
Cape Leeuwin Hydroacoustic Site W1	H01W1	Western Australia,Australia	34.8930S	114.1540E	-2598	From 2010-01-24
Cape Leeuwin Hydroacoustic Site W2	H01W2	Western Australia,Australia	34.8985S	114.1338E	-2662	From 2010-01-24
Cape Leeuwin Hydroacoustic Site W3	H01W3	Western Australia,Australia	34.8832S	114.1361E	-2578	From 2010-01-24
Cape Reinga	CRZ	North Island,New Zealand	34.4302S	172.6799E	140	From 1967-10-09 to 1987-07-31
Cape Romanzof	CPR	Alaska,U.S.A.	61.7900N	165.9550W		
Cape Saint James	SJB	British Columbia,Canada	51.9367N	131.0144W	100	From 1982-09-17
Cape San Juan	CSJ	Puerto Rico	18.3830N	65.6180W	66	From 1975-04-01 to 1999-08-25
Cape Sarichef	CSA	Alaska,U.S.A.	54.5944N	164.8750W	152	From 1970-11-28 to 1971-05-18
Cape St.James	STJA	British Columbia,Canada	51.9372N	131.0155W	41	From 2012-11-09
Capetown	KCTM	California,U.S.A.	40.4758N	124.3360W	409	
Cape Town	CTO	Cape Province,South Africa	33.9500S	18.4500E	100	
Cape Wrath	RCR	Scotland,United Kingdom	58.6240N	4.9986W	100	From 1995-09-10
Cape Yakataga	CYT	Alaska,U.S.A.	60.0744N	142.4110W	323	From 1978-08-08 to 1980-09-22
Cape Yakataga	CYK	Alaska,U.S.A.	60.0830N	142.4850W	3	From 1989-01-01
Cap Guir	CGR	Morocco	30.6300N	9.8800W	65	From 2001-06-02
Capistrello	ACAP	Italy	41.9653N	13.3794E	657	From 2011-01-02
Capitan	Y24A	New Mexico,U.S.A.	33.9257N	105.4361W	1827	From 2008-04-24 to 2010-03-21
Capitol Peak	CPW	Washington,U.S.A.	46.9738N	123.1360W	792	From 1970-07-29
Capodarco di Fermo	CADA	Italy	43.1942N	13.7614E	148	From 2008-12-16
Capodimonte	CAP	Italy	40.8667N	14.2500E	129	
Capo d'Orlando	MCPD	Sicily,Italy	38.1200N	14.7300E	139	From 2012-06-13
Capo Mulini Mare	SN1	Italy	37.5476N	15.3975E	-2065	From 2006-02-09
Capo Vaticano	CV6*	Sicily,Italy	38.6089N	16.8842E		From 1966-04-01 to 1966-05-01
Capo Vaticano	CVI	Italy	38.5923N	15.9038E		From 1978-04-01
Capps Glacier	CGLM	Alaska,U.S.A.	61.3077N	152.0070W	1082	
Capra Ranch	CAPCA	California,U.S.A.	33.3882N	117.1949W	285	
Caprese Michel	CRE	Italy	43.6197N	11.9508E	1170	From 1983-10-01
Capriano del Colle	LEOD	Italy	45.4582N	10.1234E	92	From 2007-07-18
Capriolo	CAPR	Italy	45.6372N	9.9345E	215	From 2006-05-31
Caprock	Z26A	New Mexico,U.S.A.	33.2716N	103.9798W	1163	From 2008-04-17 to 2010-03-05
Cap Rock	CPRX	New Mexico,U.S.A.	33.0308N	103.8670W	1356	
Cap Spartel	CPS	Morocco	35.7910N	5.9100W	326	
Captain Cook	CPH	Hawaii,U.S.A.	19.4882N	155.9180W	323	From 1973-09-20
Captain Cook Nikiski	CAPN	Alaska,U.S.A.	60.7683N	151.1539W	47	From 2013-07-01
Capurgana	CAPC	Colombia	8.6353N	77.3515W	100	
Caracas	CARV	Venezuela	10.5037N	66.9289W	1035	From 2012-07-29
Caracas	CAR	Venezuela	10.5070N	66.9280W	1035	From 1962-05-24
Carapari	BB05	Bolivia	21.8322S	63.7390W	876	From 2012-03-08
Carapelle Calvisio	RM27	Italy	42.3018N	13.6799E	947	From 2009-06-18 to 2009-08-31
Caraveli	CRV	Peru	15.7844S	73.3731W	1780	
Caravelle	CRM	Martinique,France	14.7537N	60.9155W	180	From 1973-01-01
Carbondale	S44A	Illinois,U.S.A.	37.6936N	89.2551W	155	From 2011-05-20
Carcaliu	CFR	Romania	45.1780N	28.1362E	52	From 1977-03-01
Carcanieres	CARF	Midi-Pyrenees,France	42.7160N	2.1055E	1220	From 1998-07-10
Cardinia	CDNM	Victoria,Australia	37.9462S	145.4252E	252	
Cardoso	CRDM	Italy	44.0262N	10.4818E	370	From 2006-01-01 to 2013-02-05
Cardoso	CARD	Italy	44.0261N	10.4821E	380	From 2013-02-06
Careggine (LU)	T0916	Italy	44.1246N	10.3187E	871	From 2013-06-22
Carei	CEI	Romania	47.6850N	22.4585E	125	From 1979-01-01
Carey	J14A	Idaho,U.S.A.	43.3234N	113.5178W	1649	From 2007-08-11 to 2009-06-01
Cariacou	GRCU	Grenada	12.4711N	61.4529W	240	
Cariblanco	CBLA	Costa Rica	10.2773N	84.1830W	889	
Caribou	CBM	Maine,U.S.A.	46.9325N	68.1208W	250	From 1962-10-01 to 1994-12-31
Carife	CAFE	Italy	41.0280N	15.2366E	1070	From 2005-07-10
Carira, Sergipe, Brazil	CRRB	Sergipe,Brazil	10.2505S	37.5998W	237	From 2011-05-23 to 2013-02-22
Cariri, TO, Brazil	RET3	Tocantins,Brazil	11.8685S	49.2065W	279	From 2008-07-19 to 2012-06-09
Carlentini	HCRL	Sicily,Italy	37.2830N	15.0320E	190	From 1994-05-01
Carlisle	CARL	Western Australia,Australia	31.9835S	115.9267E	2	From 2009-02-14
Carloforte	CRL	Sardinia,Italy	39.1333N	8.3167E	18	
Carlsbad	CLN	New Mexico,U.S.A.	32.4027N	103.7320W	1094	From 1974-04-05
Carlsbad	CLNB	New Mexico,U.S.A.	32.2642N	103.8790W	1045	
Carlsbad 2	CLN2	New Mexico,U.S.A.	32.3552N	103.7740W	1100	
Carlsbad 4	CLN4	New Mexico,U.S.A.	32.3533N	104.0290W	975	
Carlsbad 6	CLN6	New Mexico,U.S.A.	32.5208N	103.8790W	1100	
Carlsbad 7	CLN7	New Mexico,U.S.A.	32.4132N	103.8080W	1033	
Carlsbad E Tower	CBET	New Mexico,U.S.A.	32.4205N	103.9900W	1042	
Carlson Angus Ranch, Regent	E26A	North Dakota,U.S.A.	46.4712N	102.4621W	806	From 2009-06-11 to 2011-06-24
Carlson Farm, Erwin	H32A	South Dakota,U.S.A.	44.5041N	97.4363W	573	From 2010-07-31 to 2012-07-21
Carlson Farm, Grass Valley	G06A	Oregon,U.S.A.	45.2357N	120.6351W	780	From 2006-08-15 to 2009-01-08
Carmanah Point Lighthouse	CPLB	British Columbia,Canada	48.6118N	124.7512W	40	
Carmen	CARM	Ecuador	0.2410S	79.4965W	2330	
Carmenet Vineyards, Sonoma	CVS	California,U.S.A.	38.3453N	122.4584W	295	From 1998-05-06
Carmichael	CRG	Guadeloupe,France	16.0542N	61.6592W	1370	
Carmignano	CRMI	Italy	43.7900N	10.9700E	490	From 2006-10-12
Carmo do Cajuru	CDCB	Minas Gerais,Brazil	20.2365S	44.7182W	880	From 1993-01-01
Carnagh Station	CNGZ	North Island,New Zealand	38.4837S	178.2075E	175	From 2006-07-21
Carnasaw Mountain Lookout Tower	CRO	Oklahoma,U.S.A.	34.1499N	94.5556W	302	From 1977-05-17 to 1980-07-23
Carnegie Institution of Washington	DTM	District of Columbia,U.S.A.	38.9567N	77.0644W	67	
Carney Farms, Richland	A22A	Montana,U.S.A.	48.9926N	105.9153W	861	From 2008-09-16 to 2010-07-15
Carnmenellis	CCA1	England,United Kingdom	50.1866N	5.2277W	210	From 1981-01-01
Carnsore Point	ECP	Ireland	52.1800N	6.3689W	5	From 1980-06-01 to 2002-01-06
Carolei	CARO	Italy	39.2540N	16.2190E	618	From 2006-08-07
CAROLEI	CAR1	Italy	39.2534N	16.2114E	679	From 2009-10-21
Carovilli	CRVI	Italy	41.7239N	14.3056E	910	
Carovilli	CII	Italy	41.7230N	14.3050E	910	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Carpegna, Italy	CPGN	Italy	43.8011N	12.3205E	1399	From 2008-12-10
Carpenter Ridge	PV23	Colorado,U.S.A.	38.4520N	109.0112W	2456	
Carpino	PCRP	Italy	41.8390N	15.8615E	124	From 2007-04-22
Carpinone	CPI2	Italy	41.5853N	14.3186E	750	
Carquinez Bridge	CRQB	California,U.S.A.	38.0558N	122.2249W	-63	
Carr	N24A	Colorado,U.S.A.	40.8271N	104.8824W	1695	From 2008-07-08 to 2010-05-18
Carrickbyrne, Co Wexford	IWEX	Ireland	52.3743N	6.7745W	179	
Carrickbyrne Hill	ECB	Ireland	52.3661N	6.7811W	125	From 1981-02-01
Carrier Mills	S45A	Illinois,U.S.A.	37.6774N	88.5804W	122	From 2011-05-19
Carrizo Plain	CARC	California,U.S.A.	35.3082N	119.8458W	765	
Carrizo Plain	CRR	California,U.S.A.	32.8868N	115.9692W	66	From 1973-04-06
Carrollton	Z47A	Alabama,U.S.A.	33.1990N	88.0696W	65	From 2011-04-16 to 2013-01-31
Carrot	PCA1	Scotland,United Kingdom	55.7007N	4.2550W	302	From 1983-01-01
Carruther's Hill	CASA	Cape Province,South Africa	34.6990S	19.5900E	187	
Cars	CARS	Ecuador	2.4357S	78.9482W	3940	
Carson	E27A	North Dakota,U.S.A.	46.4293N	101.5645W	738	From 2009-07-16 to 2011-06-06
Carson Hill	MCHM	California,U.S.A.	38.0187N	120.5100W	475	From 1972-04-19
Carson Hill	CRH	California,U.S.A.	38.0187N	120.5100W	475	From 1972-04-19
Cartagena	CART	Spain	37.5868N	1.0012W	65	
Carters Dam	CDG	Georgia,U.S.A.	34.6108N	84.6713W		From 1975-01-01
Carthage	CTNY	New York,U.S.A.	43.9879N	75.6453W	187	From 2005-11-08 to 2007-06-27
Carthage	CRNM	New Mexico,U.S.A.	33.9525N	106.7340W	1662	
Carthage	I57A	New York,U.S.A.	43.9377N	75.6599W	321	From 2013-08-26
Cartuja	CRT	Spain	37.1900N	3.5956W	774	
Caruaru	CAUB	Pernambuco,Brazil	8.1768S	36.0093W	479	From 2002-02-07
Caruaru-PE	NBCA	Pernambuco,Brazil	8.2258S	36.0130W	613	From 2011-04-09
Carupano	CRUV	Venezuela	10.6748N	63.2363W	20	From 1993-04-01
Carvers	Q09A	Nevada,U.S.A.	38.8340N	117.1816W	1703	From 2006-04-13 to 2008-03-22
Cary Ranch	CRY	California,U.S.A.	33.5654N	116.7373W	1128	
Caryville	CA-TN	Tennessee,U.S.A.	36.1444N	84.1897W	305	
Caryville	CA-	Tennessee,U.S.A.	36.1444N	84.1897W	305	
Casa Alexandra Alvarado - Tingo	TING	Ecuador	0.2825S	78.4486W	2453	
Casa Benchmark	MCBM	California,U.S.A.	37.6444N	118.8968W	2391	
Casablanca	COBS	Spain	40.7141N	1.3573E	-160	From 2007-11-01
Casacalenda	CSCL	Italy	41.6948N	14.8320E	905	From 2002-11-28
Casa Diablo	DBOG	California,U.S.A.	37.6528N	118.9180W	2243	From 1984-07-01
Casa Diablo Hot Springs	MCSM	California,U.S.A.	37.6549N	118.9058W	2417	From 1982-08-05
Casa Diablo Mountain	CASR	California,U.S.A.	37.5748N	118.5520W	2170	From 1980-06-01
Casa Hugo Yepes - Cumbaya	CUMY	Ecuador	0.1909S	78.4137W	2359	
Casa Juvan	CJV	California,U.S.A.	34.5305N	118.1440W	1341	
Casalattico (FR)	T0203	Italy	41.6187N	13.7213E	559	From 2009-10-08 to 2010-01-14
Casamaina	RM12	Italy	42.2620N	13.3924E	1412	From 2009-04-07 to 2009-05-25
Casa M˜¡quinas	CMAQ	Costa Rica	10.7020N	85.1943W	615	
Casa M˜¡quinas Las Pailas	APPA	Costa Rica	10.7583N	85.3590W	650	From 2000-01-01
Casa M˜¡quinas Miravalles	APGM	Costa Rica	10.7007N	85.1925W	636	From 2000-01-01
Casamari	CAS	Italy	41.6333N	13.3667E		
Casamicciola	OC9	Italy	40.7458N	13.9008E	123	From 1993-01-01
Casamicciola	CSM	Italy	40.7500N	13.9000E	123	
Casa Pap˜¡s Liliana Troncoso	LILI	Ecuador	0.2718S	78.5313W	2866	From 2010-08-20
Casa Patricio Ramon - Quito	PRAM	Ecuador	0.1449S	78.4947W	2840	
Casarave	BB07	Bolivia	14.8808S	64.4855W	170	From 2012-03-27
Casares, Malaga	E005	Spain	36.4294N	5.2660W	321	From 2008-02-14 to 2009-06-18
Casa Rosa Ranch, Morristown	Y15A	Arizona,U.S.A.	33.9535N	112.3331W	572	From 2007-03-20 to 2008-12-02
Casa Vinicio Caceres	FENY	Ecuador	0.1470S	78.4815W	2815	From 2010-08-20
Cascade Tunnel	CC-WA	Washington,U.S.A.	47.7692N	121.0836W	1036	
Cascajal	CASL	Costa Rica	9.9432N	84.6767W	24	
Cascavel-CE	NBCL	Ceara,Brazil	4.2243S	38.2910W	27	From 2011-05-26
Casco	K50A	Michigan,U.S.A.	42.7749N	82.6231W	191	From 2012-10-12
Case Bada	ECBD	Sicily,Italy	37.7795N	15.0863E	1420	From 1994-10-01
Case del Piano	ECPN	Sicily,Italy	37.7428N	14.9885E	2985	From 1993-11-01
Case del Vescovo	ECVS	Sicily,Italy	37.7030N	15.0177E	1950	From 1994-10-01
Case Giovannangeli - (Balsorano -AQ)	T0201	Italy	41.7780N	13.5745E	570	From 2009-06-12 to 2009-07-28
Casera Mimoias	CSMI	Italy	46.5120N	12.6520E	1635	
Casera Razzo	CSZ	Italy	46.4731N	12.6172E	1825	From 1988-01-01 to 1994-10-12
Casey	CASY	Enderby Land	66.2792S	110.5364E	154	
Casey Station	CSY	Wilkes Land	66.2894S	110.5290E	56	
Case Zampini	ECZM	Sicily,Italy	37.7308N	14.9040E	1342	From 1992-12-01
Cashca Tororas, San Jose de Chimbo	JSCH	Ecuador	1.7176S	78.9780W	2901	From 2012-07-26
Cashmere	CMZ	South Island,New Zealand	43.5845S	172.6398E	255	From 1978-09-07 to 1990-05-31
Casias Ranch, Antonito	T23A	Colorado,U.S.A.	37.0361N	106.0372W	2429	From 2008-06-06 to 2010-04-13
Casigua	CSV	Venezuela	8.5040N	72.5220W	50	
Casitas Dam	BCD	California,U.S.A.	34.3687N	119.3440W	213	From 1971-11-01
Casitas Lake	BCL	California,U.S.A.	34.4125N	119.3610W	177	From 1969-11-24 to 1971-10-05
Casmilo, Condeixa	PCAS	Portugal	40.0528N	8.4983W	343	From 2009-07-24
Casola in Lunigiana	TCSL	Italy	44.2000N	10.1817E	281	From 2004-05-20
Casper	K22A	Wyoming,U.S.A.	42.6507N	106.5240W	1686	From 2008-07-15
Casr Tuba	CSTJ	Jordan	31.1200N	36.6770E	760	From 1990-03-24
Casr Tuba	QTBJ	Jordan	31.1200N	36.6770E		From 1990-03-24
Cassa de la Selva	CCAS	Spain	41.8840N	2.9053E	197	From 2004-12-01
Cassano Ionio	CSI	Italy	39.7765N	16.2894E	507	From 1979-05-01
Cassano Irpino	CSSN	Italy	40.8608N	15.0239E	690	
Cassie Pea, Portland	U48A	Tennessee,U.S.A.	36.5107N	86.5402W	268	From 2011-12-10
Casso	CSO	Italy	46.2733N	12.3239E	1070	From 1988-01-01
Cassop	LCP	England,United Kingdom	54.7368N	1.4741W	185	From 1991-01-01
Castanea	MSRU	Sicily,Italy	38.2630N	15.5090E	335	From 1993-12-01
Castelbuono	CSLB	Sicily,Italy	37.9374N	14.0579E	583	
Castel del Monte	CDT	Italy	41.0820N	16.2740E	500	
Castel Frentano	CAFR	Italy	42.2273N	14.3470E	250	From 2006-11-15
Castella	LCAM	California,U.S.A.	41.1688N	122.2728W	689	
Castellane	OG32	Rhone-Alpes,France	43.8103N	6.5593E	1130	From 1991-05-03
Castelleone	CTL8	Italy	45.2763N	9.7622E	-78	From 2009-10-13
Castellina Chianti	CSNT	Italy	43.4722N	11.2911E	573	
Castello D'Argile (BO)	T0823	Italy	44.6862N	11.2771E	13	From 2012-05-26 to 2012-09-19
Castello di San Valentino (Castellarano) - RE	RE08	Italy	44.5237N	10.6998E	301	From 2008-12-28 to 2009-02-12
Castell'Umberto	ME07	Italy	38.0813N	14.8116E	739	From 2007-11-22 to 2008-05-11
Castelmola	ECML	Sicily,Italy	37.8692N	15.2637E	810	From 1994-10-01
Castelo Branco	PCBR	Portugal	39.8403N	7.4775W	180	From 1994-05-10
Castelo Branco, Faial, Azores	PFCBR	Azores	38.5215N	28.7168W	33	From 2014-11-03
Castelpoggio (MS)	T0911	Italy	44.1117N	10.0738E	519	From 2013-06-21
Castelsaraceno	BCSR	Italy	40.1620N	15.9911E	915	From 2011-02-06
Castel Tesino	CTI	Italy	46.0481N	11.6498E	1189	
Castelvetrano	CAVT	Sicily,Italy	37.6788N	12.7556E	158	From 2000-07-01
Castelvetrano	CVT	Sicily,Italy	37.6780N	12.7920E	0	From 1986-01-01
Castiglione	ECTS	Sicily,Italy	37.8820N	15.1210E	681	From 1989-07-01
Castiglione Aldobrando (Gubbio) - PG	AT04	Italy	43.2543N	12.4505E	595	From 2010-03-31
Castiglione della Pescaia	CASP	Italy	42.7908N	10.8652E	390	From 2007-05-30
Castiglione (Tornimparte)	RM15	Italy	42.2823N	13.2452E	1223	From 2009-04-09 to 2009-05-25
Castiglion Fiorentino	CAFI	Italy	43.3292N	11.9663E	547	From 2007-09-12
Castillo	CASI	Costa Rica	10.4350N	84.7362W	559	
Castillo	CASO	Costa Rica	10.4337N	84.7342W	575	From 2000-01-01
Castillo de Giribaile, Vilches, Jaen	E032	Spain	38.1135N	3.4898W	480	From 2008-06-04 to 2008-11-14
Castleberry Farm, Seminole	128A	Texas,U.S.A.	32.6213N	102.4850W	966	From 2009-02-06 to 2010-12-06
Castle Douglas	GCD	Scotland,United Kingdom	54.8638N	3.9417W	189	From 1989-01-01
Castle Hill	CAH	New South Wales,Australia	34.6433S	149.2420E	700	From 1970-01-01
Castle Mountain	CTM	California,U.S.A.	35.9317N	120.3370W	1189	From 1970-12-15
Castle Mountains	CMJ	Jamaica	18.1358N	76.3727W	333	
Castle Mt.	PCAM	California,U.S.A.	35.9317N	120.3370W	1189	From 1970-12-15
Castlepoint	CAZ	North Island,New Zealand	40.9025S	176.2264E	6	From 1968-02-20 to 1988-11-23
Castlepoint	CPWZ	North Island,New Zealand	40.9098S	176.2016E	131	From 2009-07-07
Castle Rock	CRC	California,U.S.A.	37.2417N	122.1300W	607	From 1966-03-01 to 1977-06-01
Castle Rock	CTR	New York,U.S.A.	43.8742N	74.4600W	585	From 1971-09-01
Castle Rocks	CAST	Alaska,U.S.A.	63.4193N	152.0820W	611	
Castle Rock Springs	GCRM	California,U.S.A.	38.7732N	122.7150W	719	From 1979-05-08
Castle Valley Ranch, Emery	Q16A	Utah,U.S.A.	38.9176N	111.1716W	1912	From 2007-05-31 to 2009-12-08
Castor Lake	CTLN	Yukon Territory,Canada	64.4287N	116.0189W	552	
Castries, St. Lucia	SLCP	St Lucia	14.0093N	60.9896W	28	From 2014-10-17
CASTRO	CTRO	Chile	42.4814S	73.7814W	92	From 2008-08-12
Castrocucco	CUC	Italy	39.9931N	15.8156E	665	
Castroreale	MCSR	Sicily,Italy	38.0640N	15.2500E	1010	From 1993-12-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Castro Verde	PCVE	Portugal	37.6320N	8.0390W	234	From 2007-12-11
Castrovirreyna	CST	Peru	13.2917S	75.3233W	3947	
Casumaru (Bondeno - FE)	T0822	Italy	44.8328N	11.3455E	6	From 2012-05-20 to 2012-11-27
Catak	CTK	Turkey	40.6900N	34.8261E	1250	From 1991-01-01
Catalca	CTTX	Turkey	41.3420N	28.3580E	378	
Catalca	CTT	Turkey	41.1473N	28.4297E	324	From 1978-08-01
Catalca	ELBA	Turkey	41.1469N	28.4307E	331	From 2005-09-20
Catalina Dam	CTD	California,U.S.A.	33.3549N	118.4444W	190	
Catalina I. Airport	CIAC	California,U.S.A.	33.4019N	118.4137W	467	
Catalina Island	CIU	California,U.S.A.	33.4458N	118.4830W	203	
Catalina Island Airport, Avalon	CIS	California,U.S.A.	33.4019N	118.4150W	477	From 1998-09-10 to 2008-07-16
Catamayo	CATE	Ecuador	3.9618S	79.3720W	1358	From 2008-12-12
Catania	CAT	Sicily,Italy	37.5142N	15.0972E	20	
Catanzaro	CATZ	Sicily,Italy	38.9000N	16.6170E		
Catapilco	CTP	Aconcagua,Chile	32.5717S	71.3117W	116	From 1970-08-01
Cataract Bedrock	CTBM	New South Wales,Australia	34.2648S	150.8107E	322	
Cataract Creek	CCAZ	Arizona,U.S.A.	35.6540N	112.2970W	1724	
Cataract Dam	CTDM	New South Wales,Australia	34.2672S	150.8023E	294	
Catarman	CNP	Samar,Philippines	12.5105N	124.6632E		From 1980-09-04
Cat Creek Ranch, Riddle	L11A	Idaho,U.S.A.	42.1669N	115.7541W	1511	From 2007-01-08 to 2008-08-14
Catelraimondo	CRM1	Italy	43.2101N	13.0580E	302	From 2011-04-07
Catenanuova	ECNV	Sicily,Italy	37.5956N	14.7125E	475	From 2007-01-30
Cat-ERZURUM	ECAT	Turkey	39.6062N	40.9742E	1910	From 2010-08-04
Catey	SNH1	Dominican Republic	19.2681N	69.7303W	2	From 2011-06-17
Catfish Pond	CNJ	New Jersey,U.S.A.	41.0358N	75.0042W	351	From 1973-02-01 to 1974-07-31
Cathedral Cave	CCM	Missouri,U.S.A.	38.0557N	91.2446W	222	From 2011-07-14
Catigliano (Citt˜ di Castello) - PG	AT07	Italy	43.4940N	12.0561E	442	From 2010-04-01
Catlettsburg	R52A	Kentucky,U.S.A.	38.3366N	82.6443W	300	From 2012-06-28
Catron	CATM	Missouri,U.S.A.	36.6129N	89.6472W	82	
Catuaro Arriba	CATA	Venezuela	10.6010N	63.0700W	360	
Cauayan	CAUP	Luzon,Philippines	16.9440N	121.8230E	50	
Cauldkaine Hill	ECK	Scotland,United Kingdom	55.1811N	3.1272W	336	From 1981-09-01
Caumsett State Park, Huntington	N62A	New York,U.S.A.	40.9313N	73.4677W	34	From 2013-09-09
Cauquenes	CAUQ	Maule,Chile	35.9698S	72.2275W	172	
Causey	Y27A	New Mexico,U.S.A.	33.8839N	103.1633W	1253	From 2008-04-18 to 2010-03-18
Cauta	CTAS	El Salvador	13.7489N	89.8653W	355	
Cavalese	CAV	Trentino,Italy	46.2945N	11.4619E	1074	From 1981-06-15 to 2000-12-31
Cavaso del Tomba, Italy	MTOM	Italy	45.8883N	11.8993E	897	From 2010-06-09
Cave	KCA	Kerguelen Islands,France	49.3480S	70.2180E		From 1974-02-01
Cave	LCAV	Italy	41.8162N	12.9386E	398	From 2009-11-11
Cavedale Road	NCDM	California,U.S.A.	38.3698N	122.4620W	620	From 1971-03-08
Cavedale Road	CRD	California,U.S.A.	38.3698N	122.4620W	620	From 1971-03-08
Cave del Predil	PRED	Italy	46.4428N	13.5650E	902	From 2010-07-20
Cave In Rock	CIRL	Illinois,U.S.A.	37.5119N	88.1081W	119	
Cave Junction	L02E	Oregon,U.S.A.	42.1580N	123.6026W	454	From 2012-10-10
Cave Junction	L02A	Oregon,U.S.A.	42.1560N	123.6018W	484	From 2005-12-16 to 2007-11-29
Cave Junction, OR	L02D	Oregon,U.S.A.	42.1578N	123.6031W	458	From 2009-11-08 to 2012-10-09
Cave Mountain	CAVC	California,U.S.A.	35.0523N	116.3392W	664	
Cavezzo	CAVE	Italy	44.8658N	11.0031E	23	From 2012-11-28
Caviahue	CANA	Neuquen,Argentina	37.8875S	71.0620W	1645	From 1993-11-08
Cavillon	CAVM	New South Wales,Australia	29.6478S	151.6238E	982	
Cavuskoy	CAVTT	Turkey	40.2022N	29.8425E	460	
Cavuskoy	CAVI	Turkey	40.2022N	29.8425E	460	From 1993-01-01
Cawcaw Swamp	CCS	South Carolina,U.S.A.	32.8161N	80.2553W	9	From 1976-03-31
Cayambe	CASW	Ecuador	0.0160N	78.0063W	4889	
Cayambe	CAYA	Ecuador	0.0715N	77.9901W	4143	From 1988-10-14
Cayambe Volc	ELAGU	Ecuador	0.0236S	77.9903W	4218	From 2002-12-12
Cayeli-Rize	CHAY	Turkey	41.0862N	40.7253E	72	From 2012-03-20
Cayeli-Rize	CHOM	Turkey	41.0970N	40.7611E	422	From 2012-03-21
Cayenne	CAY	French Guiana,France	4.9480N	52.3167W	25	From 1985-07-22
Cazenovia	CAZE	New York,U.S.A.	42.9313N	75.9200W	301	
CB02E	CB02E	Romania	45.9650N	25.5590E	427	
CB03E	CB03E	Romania	45.7940N	25.7720E	541	
CB04B	CB04B	Romania	45.6900N	26.0800E	675	
CB05A	CB05A	Romania	45.5880N	26.1470E	674	
CB05B	CB05B	Romania	45.6090N	26.1250E	668	
CB07E	CB07E	Romania	45.4830N	26.5910E	486	
CB09E	CB09E	Romania	45.3790N	26.9760E	247	
CB11E	CB11E	Romania	45.2220N	27.4270E	88	
CC01	CC01	Romania	47.0550N	25.9250E	591	
CC03E	CC03E	Romania	46.6690N	25.5510E	717	
CC05	CC05	Romania	46.2550N	25.2100E	721	
CC06A	CC06A	Romania	46.0790N	25.1480E	589	
CC06B	CC06B	Romania	46.0860N	24.9890E	602	
CC07	CC07	Romania	45.9290N	24.9260E	538	
CC08A	CC08A	Romania	45.6900N	24.7950E	687	
Cccc	CCCC	Cuba	21.2000N	77.7660W		
CD01	CD01	Romania	45.2600N	24.4250E	472	
CD04	CD04	Romania	44.8630N	24.3910E	400	
CD06	CD06	Romania	44.6420N	24.7620E	208	
CD07	CD07	Romania	44.4700N	24.4450E	167	
CD10	CD10	Romania	44.4960N	24.9600E	192	
CD11	CD11	Romania	44.2730N	24.7560E	179	
CD12	CD12	Romania	44.3080N	25.0860E	141	
CD14	CD14	Romania	44.3360N	25.6440E	126	
CD15	CD15	Romania	44.1960N	25.5010E	123	
CD16	CD16	Romania	44.0000N	25.5760E	109	
CD17	CD17	Romania	44.1710N	26.1350E	83	
CD19	CD19	Romania	44.3240N	26.4970E	96	
C.da Z Pietro	EZPO	Sicily,Italy	37.8230N	15.1068E	847	From 1994-10-01
CE01	CE01	Romania	46.3460N	26.4220E	438	
CE02	CE02	Romania	46.2130N	26.4460E	494	
CE03	CE03	Romania	46.1030N	26.8310E	370	
CE04	CE04	Romania	46.0730N	27.1300E	227	
CE05	CE05	Romania	46.0000N	26.6560E	528	
CE06	CE06	Romania	45.9890N	26.8750E	335	
CE07	CE07	Romania	45.9270N	27.0540E	314	
CE08	CE08	Romania	45.8660N	26.7280E	408	
CE09	CE09	Romania	45.7840N	26.7230E	419	
CE11	CE11	Romania	45.6760N	27.0440E	345	
CE13	CE13	Romania	46.0300N	26.0550E	625	
CE15	CE15	Romania	45.8190N	26.0060E	563	
CE16	CE16	Romania	45.6410N	25.7560E	637	
CE17	CE17	Romania	45.5120N	25.5080E	1036	
CE18	CE18	Romania	45.4370N	25.0490E	971	
CE19A	CE19A	Romania	45.1860N	25.4390E	457	
CE20	CE20	Romania	45.3040N	25.7230E	417	
CE21	CE21	Romania	45.4910N	25.9450E	1361	
CE22	CE22	Romania	45.5620N	26.8670E	362	
CE23	CE23	Romania	45.5200N	27.0500E	275	
CE24	CE24	Romania	45.4700N	26.7300E	386	
CE25	CE25	Romania	45.3270N	26.7370E	303	
Ceahlau	CEA	Romania	46.9758N	25.9511E	1699	From 1982-09-01 to 1989-01-01
Cebu City	CCP	Cebu,Philippines	10.3313N	123.9062E	36	
Cedar Bluff	CBKS	Kansas,U.S.A.	38.8140N	99.7374W	677	From 1994-09-01
Cedar Butte	CIB	Idaho,U.S.A.	43.4011N	112.9420W	1611	From 1979-11-18 to 1986-07-11
Cedar Butte	CBTI	Idaho,U.S.A.	43.3875N	112.9120W	1754	From 1986-07-11
Cedar City	CVH	Utah,U.S.A.	37.7151N	113.0641W	1724	From 2008-06-10
Cedar City	CCU	Utah,U.S.A.	37.6753N	113.0690W	1775	From 1968-12-01
Cedar City	S14A	Utah,U.S.A.	37.7601N	113.1684W	1746	From 2007-01-27 to 2008-10-08
Cedar City	CCUT	U.S.A.	37.5506N	113.3627W	2127	
Cedar City, Iron County	IAE	Utah,U.S.A.	37.6651N	113.0667W	1807	From 2008-07-09
Cedar City Park	CCPU	Utah,U.S.A.	37.6666N	113.0882W	1839	From 2009-09-03
Cedar Cove	CVE	Utah,U.S.A.	38.4642N	112.8520W	1890	
Cedar Creek	CDO	Oklahoma,U.S.A.	34.1904N	94.7726W	230	From 1980-08-01 to 1981-03-25
Cedar Creek Ranch, Saratoga	M22A	Wyoming,U.S.A.	41.4033N	106.5958W	2334	From 2007-11-25 to 2010-05-15
Cedaredge	CECO	Colorado,U.S.A.	38.9310N	107.9810W	1692	
Cedar Flats	CDFW	Washington,U.S.A.	46.1162N	122.0470W	780	
Cedar Hill Farm, Mount Bethel	N60A	Pennsylvania,U.S.A.	40.8704N	75.1000W	189	From 2013-06-12

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Cedar Moraine	CDMR	Washington,U.S.A.	47.4222N	121.7578W	479	
Cedar Mountain	CMU	Utah,U.S.A.	39.1713N	110.6190W	2332	From 1978-06-01 to 1990-08-14
Cedars of Lebanon	CLTN	Tennessee,U.S.A.	36.0912N	86.3315W	208	
Cedar Springs	CED	California,U.S.A.	34.2772N	117.3340W	1067	From 1965-03-01 to 1967-07-31
Cedar Springs	CSP	California,U.S.A.	34.2980N	117.3583W	1239	From 1969-07-01
Cedral	CDL2	Costa Rica	10.5252N	83.6873W	51	
Cedral	CDRL	Costa Rica	10.5252N	83.6873W	51	
Cedros	CEDR	Azores,Portugal	38.6341N	28.6986W	100	From 1993-04-07
Cedros	PCED	Azores,Portugal	38.6283N	28.7017W	200	
Cedros	CDRO	Azores,Portugal	38.6292N	28.6992W	195	
Ceglie Messapica	CGL1	Italy	40.6548N	17.4762E	303	
Ceiba Bonita	SDD09	Dominican Republic	19.2533N	69.6073W	465	
CEJHS Indians, Carlisle	Q46A	Indiana,U.S.A.	39.0231N	87.3575W	164	From 2011-11-08
Celerina	SCEL	Switzerland	46.5074N	9.8552E	1718	From 2009-08-01
Celeste	CEL	Italy	38.2594N	15.8939E	690	
Celico	CELI	Italy	39.4027N	16.5088E	1289	From 2011-10-20
Cemaes, Anglesey	WPS	Wales,United Kingdom	53.4004N	4.4986W	16	From 2011-03-10
Cemisgezek	CEM	Turkey	39.0579N	38.9234E	1076	From 1973-09-10
Cenerente	CNRT	Italy	43.1508N	12.3573E	393	From 2014-04-09
Centennial Lake Park	CLPO	Ontario,Canada	45.2460N	76.9642W	272	
Centennial Mountain	CMI	Idaho,U.S.A.	44.5253N	111.6220W	2377	
Center	D27A	North Dakota,U.S.A.	47.1081N	101.5254W	685	From 2009-07-17 to 2011-06-08
Center Grove, Livingston	439A	Texas,U.S.A.	30.7937N	94.7660W	90	From 2010-04-12 to 2011-12-13
Centerville	CV-TN	Tennessee,U.S.A.	35.7700N	87.3844W	183	From 1961-11-25 to 1962-10-05
Centerville	337A	Texas,U.S.A.	31.3159N	95.8854W	150	From 2010-02-16 to 2011-12-12
Centerville	CV-	Tennessee,U.S.A.	35.7700N	87.3844W	183	From 1961-11-25 to 1962-10-05
Centerville Road, Mineral	CVRD	Virginia,U.S.A.	38.0686N	77.8081W	100	
Centrahoma	X36A	Oklahoma,U.S.A.	34.5704N	96.3520W	211	From 2010-04-20 to 2012-02-02
Central Fire St	CFSC	California,U.S.A.	34.1054N	117.2829W	312	
Central Michigan University	MTPM	Michigan,U.S.A.	43.5872N	84.7743W	178	
Central Minnesota Array	CM4	Minnesota,U.S.A.	45.7500N	93.1019W	298	From 1977-01-01
Central Minnesota Array	CM1	Minnesota,U.S.A.	45.9337N	93.3528W	324	From 1977-01-01
Central Minnesota Array	CM3	Minnesota,U.S.A.	45.8747N	93.0097W	294	From 1977-01-01
Central Minnesota Array	CM6	Minnesota,U.S.A.	45.8599N	93.1977W	310	From 1977-01-01
Central Minnesota Array	CM2	Minnesota,U.S.A.	45.9741N	93.1618W	323	From 1977-01-01
Central Minnesota Array	CM5	Minnesota,U.S.A.	45.7830N	93.3234W	298	From 1977-01-01
Central Park	CPNY	New York,U.S.A.	40.7912N	73.9600W	27	
Central Site	MCEM	California,U.S.A.	37.9388N	120.5293W	373	
Centro de Investigaciones Geotecnicas	CIGS	El Salvador	13.6981N	89.1733W	616	From 1991-12-01 to 2003-03-28
Cent US Eq Cons	CUET	Tennessee,U.S.A.	35.0072N	89.9756W	104	
Cerbatana	CERBA	Costa Rica	9.8282N	84.3302W	1125	
Ceres	CER	Cape Province,South Africa	33.3617S	19.2933E	472	
Cerignola FG	CAPA	Italy	41.1583N	15.8169E	156	From 2014-02-28
Cerknica	CEY	Slovenia	45.7388N	14.4267E	579	From 1975-08-15
Cernavoda	CVDA	Romania	44.3336N	28.0374E	43	From 2010-11-16
Cernavoda	CVD	Romania	44.3145N	28.0326E	82	
Cernavoda-Power Plant	CVD1	Romania	44.3207N	28.0624E	20	From 2010-06-03
Cernica	CNCR	Romania	44.4439N	26.2619E	105	From 2004-08-17
Cerqua	RM30	Italy	42.5332N	13.0931E	885	From 2009-09-17 to 2010-02-16
Cerra Azul, Caleta Web	CEAZ	Galapagos,Ecuador	0.8073S	91.4074W	667	From 2012-10-09
Cerrejon, Guajira, Colombia	CRJC	Colombia	11.0200N	72.8820W	827	From 2014-11-26
Cerre-les-Noroy	CNF	Franche Comte,France	47.5828N	6.3177E	305	
Cerreto	CERT	Italy	41.9490N	12.9820E	755	From 2003-04-23
Cerreto di Spoleto	CRSP	Italy	42.8205N	12.9172E	540	From 2014-01-02
Cerrillo	CRX	Mexico D.F.,Mexico	19.4064N	99.6800W	2997	From 1978-11-29
Cerrillos	CLLP	Puerto Rico	18.0800N	66.5767W	195	From 1991-04-01 to 1999-08-25
Cerrillos	CELP	Puerto Rico	18.0749N	66.5792W	195	
Cerro Adams	ACR	Costa Rica	8.6532N	83.1680W	500	
Cerro Alto Campground	PCGM	California,U.S.A.	35.4253N	120.7390W	314	
Cerro Antonio	CANV	Venezuela	11.0390N	68.8280W	450	From 1993-04-01
CERRO ARCO	ARCO	Mendoza,Argentina	32.8415S	68.9322W	1557	From 1997-06-12
Cerro Azul	CZL	New Mexico,U.S.A.	36.2833N	105.9103W	2128	
Cerro Blanco	GYEB	Ecuador	2.1358S	80.0913W	379	From 2012-06-20
Cerro Blanco	BCO	San Juan,Argentina	31.4878S	68.8104W	1059	
Cerro Blanco	RTCB	San Juan,Argentina	31.4878S	68.8104W	1059	
Cerro Bola	CBX	Baja California,Mexico	32.3131N	116.6636W	1250	From 1982-01-05
Cerro Calan	CLCH	Santiago,Chile	33.3961S	70.5369W	865	
Cerro Castillo	GO09	Magallanes,Chile	51.2707S	72.3381W	372	
Cerro-Chispas-Manabi	CHIS	Ecuador	1.0493S	80.7260W	324	From 2006-11-10
Cerro Coronel	ACCO	San Juan,Argentina	30.5877S	69.0653W	2792	
Cerro de Hojas	HOJA	Ecuador	1.0505S	80.5460W	500	From 1993-01-22
Cerro de Hula	CHUH	Honduras	13.9417N	87.2333W	1720	
Cerro de Hule	HLH	Honduras	13.8375N	87.2583W	0	From 1990-07-01
Cerro del Durazano	CDN	New Mexico,U.S.A.	35.4546N	107.3480W	2591	From 1976-01-01
Cerro de Muerte	CDM	Costa Rica	9.5537N	83.7637W	3494	From 1984-03-07
Cerro de Punta	CDP	Puerto Rico	18.1751N	66.5913W	1300	From 1975-07-30
Cerro de Punta	CDPB	Puerto Rico	18.1700N	66.5900W	1300	
Cerro Diablo	CEDI	Venezuela	7.6540N	71.8850W	900	From 1984-01-01
Cerro El Oso	CEOS	Venezuela	9.0299N	68.3434W	404	From 1986-12-01
Cerro El Roble	ELRO	Santiago,Chile	32.9753S	71.0153W	2185	
Cerro Encantado	CEO	Oaxaca,Mexico	16.2333N	97.0183W	3000	
Cerro Gallo	CGAC	Costa Rica	10.0310N	84.4757W	1300	From 1996-01-01
Cerro Gallo 2	CGA2	Costa Rica	10.0162N	84.4655W	1200	
Cerro Gordo	CGO	California,U.S.A.	36.5504N	117.8029W	2795	
Cerro Gordo	CGVM	Mexico D.F.,Mexico	19.7500N	98.8293W		
Cerro Jefe	JEF	Panama	9.2188N	79.3738W	977	
Cerro Kenedy	KENC	Colombia	11.1108N	74.0477W	2560	
CERRO LA CRUZ	ACLC	La Rioja,Argentina	29.4255S	66.9520W	1650	From 1993-06-19
Cerro la Pandura	CPD	Puerto Rico	18.0368N	65.9151W	385	From 1975-07-30
Cerro Moro	ELMO	Venezuela	8.0131N	71.7169W	2100	From 1984-01-01
Cerron	CERV	Venezuela	10.3112N	70.6742W	1730	
Cerronegro	CEN	San Juan,Argentina	31.5758S	68.7542W	900	
Cerro Negro	ECEN	Ecuador	0.8238N	77.9713W	4230	From 1992-03-29
Cerro Negro	CENE	Venezuela	7.7639N	71.3228W	400	From 1984-01-01
Cerro Negro	CNGN	Nicaragua	12.5000N	86.6985W	515	
Cerro Pandura	CPDB	Puerto Rico	18.0600N	65.8600W	370	
Cerro Paranal	CPN1	Antofagasta,Chile	24.6259S	70.4040W	2600	From 2003-03-16
Cerro Prieto	CPBX	Baja California,Mexico	32.4178N	115.3040W	180	From 1981-10-02
Cerro San Cristobal	SCRT	Spain	36.6350N	6.1750W	73	
Cerro Tablazo, Cundinamarca	CTAB	Colombia	5.0113N	74.2043W	3500	From 2010-11-06
Cerro Toribio	GTV	Venezuela	7.6083N	63.1017W	380	
Cerro Valdivia	RTCV	San Juan,Argentina	31.8622S	68.5402W	670	
Cerro Valdivia	VAA	San Juan,Argentina	31.8617S	68.5412W	734	
Cerro Verde	CEVE	El Salvador	13.8278N	89.6240W	2035	From 2012-07-31
Cerro Villicun	RTLL	San Juan,Argentina	31.3292S	68.4748W	690	
Cervenica-Dubnik	CRVS	Slovakia	48.9022N	21.4614E	476	
Cesaproba (Montereale)	RM10	Italy	42.5090N	13.1864E	951	From 2009-04-07 to 2010-02-15
Cescau	CESL	Aquitaine,France	43.4019N	0.5319W	220	
Cesi	CESX	Italy	42.6100N	12.5800E	380	From 2008-07-18
CESI - Serravalle di Chienti	CESI	Italy	43.0049N	12.9046E	840	From 2007-01-08
Cesky Krumlov	CKRC	Czech Republic	48.8199N	14.3095E	497	From 2013-08-01
ˆe¨me	CESE	Turkey	38.3306N	26.2996E	95	From 2011-07-26
Cessapalombo	CSP1	Italy	43.0918N	13.2048E	1188	From 2006-07-12
Cesta pri Krskem	CESS	Slovenia	45.9734N	15.4631E	382	From 1996-12-01
Cetraro	CET2	Italy	39.5288N	15.9546E	675	From 2011-12-01
Ceuta	CEUT	Ceuta,Spain	35.8830N	5.3263W	100	
Ceuta	CEU	Spain	35.8987N	5.3731W	0	
Ceuta	ECEU	Spain	35.8978N	5.3768W	278	From 2007-04-11
Cevo	CEME	Montenegro	42.5467N	18.9177E	799	From 2010-11-01
Ceyhan	CEYT	Turkey	37.0100N	35.7480E	100	
CF01	CF01	Romania	46.7700N	26.3950E	242	
CF02	CF02	Romania	46.5120N	26.6490E	88	
CF04	CF04	Romania	46.7470N	27.6600E	265	
CF05	CF05	Romania	46.3070N	27.2990E	222	
CF06	CF06	Romania	46.3120N	27.5790E	140	
CF07	CF07	Romania	46.1600N	27.6590E	130	
CF08	CF08	Romania	45.9680N	27.3820E	132	
CF09	CF09	Romania	45.8800N	27.8570E	222	
CF10	CF10	Romania	45.6760N	28.0040E	117	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
CF11	CF11	Romania	45.3080N	27.8290E	60	
CF13	CF13	Romania	45.5750N	27.5430E	59	
Chaam	CHA2	Netherlands	51.5043N	4.9212E	-52	From 2011-06-09
Chaam	CHA5	Netherlands	51.5043N	4.9212E	-121	From 2011-06-09
Chaam	CHA3	Netherlands	51.5043N	4.9212E	-76	From 2011-06-09
Chaam	CHA4	Netherlands	51.5043N	4.9212E	-100	From 2011-06-09
Chaam	CHA1	Netherlands	51.5043N	4.9212E	-28	From 2011-06-09
Chabahar	CHBR	Iran	25.5950N	60.4820E	125	From 2009-10-23
Chacachacare	TCE	Trinidad and Tobago	10.6970N	61.7530W	240	
Chacalluta	AP01	Arica y Parinacota	18.3708S	70.3419W	21	From 2013-11-16
Chacarita	CCR	Buenos Aires,Argentina	34.5833S	58.4667W		
Cha da Macela	CMLA	Azores,Portugal	37.7637N	25.5243W	332	
Cha da Macela	CML	Azores,Portugal	37.7708N	25.5459W	291	From 1981-01-01
Chadas Angostura	CHCH	Santiago,Chile	33.9333S	70.6525W	680	From 1982-01-01
Chaffey Accelerograph	CHAM	New South Wales,Australia	31.3497S	151.1379E	553	
Chaffey Dam	CHFM	New South Wales,Australia	31.3265S	151.1164E	580	
Chagan-Uzun	CUR	Altayskiy Kray,Russia	50.1000N	88.3500E	1500	
Chagda	CGD	Sakha,Russia	58.7500N	130.6167E	178	
Chaguaramas	TCHG	Trinidad and Tobago	10.6800N	61.6600W	21	From 2004-07-03
Chagyl	CAGT	Turkmenistan	40.7820N	55.3860E	144	
Chaix Hills	CHX	Alaska,U.S.A.	60.0630N	141.1170W	1067	From 1974-09-04
Chaiyaphum	CHAI	Thailand	15.9018N	101.9864E	199	
Chakachamna Lake	CKL	Alaska,U.S.A.	61.1965N	152.3380W	1265	From 1989-01-01
Chakachatna North	CKN	Alaska,U.S.A.	61.2240N	152.1810W	735	From 1991-08-19
Chakachatna North Broadband	SPCN	Alaska,U.S.A.	61.2250N	152.1832W	735	
Chakrata	CKA	Himachal Pradesh,India	30.7187N	77.8659E	1990	From 2007-05-01
Chala	CLA	Peru	15.8603S	74.2433W	32	
Chala	CHAG	Georgia,Georgia	42.7279N	42.0265E	305	From 1973-01-01
Chalampe	CHAF	Alsace,France	47.8122N	7.5403E	-285	
Chalhuanca	PP08	Peru	14.2883S	73.2447W	3000	
Chalk River	CRLO	Ontario,Canada	46.0375N	77.3801W	168	
Chalk River	CKO	Ontario,Canada	45.9944N	77.4500W	191	From 1981-01-12
Chalk Rock	KCRM	California,U.S.A.	40.4263N	123.8190W	896	
Challavanipeta	CHLP	Andhra Pradesh,India	18.5058N	84.0573E	55	From 2008-09-01
Challis	CL-ID	Idaho,U.S.A.	44.4911N	114.3417W	2256	From 1966-05-23 to 1966-05-24
Challis	CL-	Idaho,U.S.A.	44.4911N	114.3417W	2256	From 1966-05-23 to 1966-05-24
Challis	H13A	Idaho,U.S.A.	44.5642N	114.2545W	1563	From 2006-12-30 to 2009-05-22
Chama	CNM	New Mexico,U.S.A.	36.9167N	106.5690W		
Chamberlain	CBC	California,U.S.A.	36.9314N	121.6618W	200	From 1969-01-01
Chamberlain	HCBM	California,U.S.A.	36.9314N	121.6618W	200	From 1969-01-01
Chamberlain Mountain	CHMT	Montana,U.S.A.	46.9143N	113.2520W	2077	
Chamberlain Ridge	GCBM	California,U.S.A.	39.3838N	123.5210W	560	
Chambon-Foret	CLF	Centre,France	48.0258N	2.2600E	145	
Chamela	CJM	Jalisco,Mexico	19.4990N	105.0430W	129	
Cham-Katzbach	CHKA	Bayern,Germany	49.2410N	12.6498E	276	From 2004-06-01
Champ du Feu	CDF	Alsace,France	48.4122N	7.2761E	1068	From 1972-11-22
Champion	E42A	Michigan,U.S.A.	46.4301N	87.9140W	475	From 2011-09-10 to 2013-06-09
Champorcher	CIRO	Italy	45.6019N	7.5682E	2516	From 2009-11-07
Chanaral	CAA	Atacama,Chile	26.3303S	70.6139W	2	From 1977-01-01
Chanarkot	CKP	Pakistan	34.0227N	72.7733E	1195	
Chanca	CNCB	Bolivia	16.8127S	67.9821W	4325	From 1982-01-01
Chanco	CNCO	Maule,Chile	35.7349S	72.5330W	50	From 2004-11-17
Changalane	CNG	Mozambique	26.2917S	32.1883E	100	From 1961-01-01
Changchun	HSK	Jilin,China	43.9167N	125.3000E	250	
Changchun	CNH	Jilin,China	43.8292N	125.3130E	236	From 1976-10-15 to 1999-08-25
Changchun	CN2	Jilin,China	43.8014N	125.4480E	230	From 1976-10-15
Changhua City	WCH	Taiwan region	24.0820N	120.5570E	17	From 1999-08-04
CHANGNYEONG	KSCHR	Republic of Korea	35.5440N	128.4907E	105	From 2006-12-30
Changuinola	CNI	Panama	9.4167N	82.5168W	20	From 1993-04-18
Changyeh	CYEH	Gansu,China	38.9333N	100.5833E	0	From 1955-01-01
Chania	CH01	Crete,Greece	35.5169N	24.0206E	1	From 2011-09-15
Chania	CHAN	Crete,Greece	35.5192N	24.0425E	34	From 2006-12-01
Chania	CH02	Crete,Greece	35.5144N	24.0315E	11	From 2011-09-15
Chanki	CHKI	Nagaland,India	26.4292N	94.3983E	950	
Channel	CHNM	Missouri,U.S.A.	36.0419N	89.9286W	74	
Channing	V28A	Texas,U.S.A.	35.7505N	102.2243W	1163	From 2009-01-17 to 2010-11-10
Chantaburi	CHAT	Thailand	12.5167N	102.1667E	22	From 1996-05-01
Chapadao Do Sul	CDSB	Mato Grosso,Brazil	18.7655S	52.8393W	750	
Chaparral, Anthony	223A	New Mexico,U.S.A.	32.0062N	106.4276W	1232	From 2008-03-28 to 2010-01-16
Chaparral WMA, Artesia Wells	833A	Texas,U.S.A.	28.3236N	99.3939W	171	From 2009-12-04
Chapelcross	BCC1	Scotland,United Kingdom	55.0153N	3.2201W	138	From 1992-01-01
Chapel Hill	CEH	North Carolina,U.S.A.	35.8908N	79.0928W	152	From 1975-08-01 to 2004-03-05
Chapel Hill	CHC	North Carolina,U.S.A.	35.9028N	79.0506W	149	From 1953-01-01 to 1970-12-31
Chapleau	D47A	Ontario,Canada	47.0558N	83.1038W	498	From 2012-10-25
Chaplin	CPL	Connecticut,U.S.A.	41.7890N	72.1072W	161	From 1972-01-19 to 1974-07-23
Chapman	Q34A	Kansas,U.S.A.	38.9214N	96.9408W	378	From 2010-05-09 to 2012-03-17
Chapri	CPA	Pakistan	32.9805N	71.4237E	335	
Chaqaral	CRCH	Atacama,Chile	26.3455S	70.6214W	10	From 2004-07-30
Chara	CRS	Irkutskaya Oblast',Russia	56.9000N	118.2689E	700	
Charan	CHTH	Iran	35.9080N	51.1260E	2250	From 2005-10-01
Charjew	CHDS	Turkmenistan	39.0750N	63.5930E	190	
Charlesbourg	CHQ	Quebec,Canada	46.8897N	71.3000W	145	From 1971-11-11 to 1982-07-04
Charleston	CHRM	Missouri,U.S.A.	36.8515N	89.3621W	93	
Charleston Southern University	CSU	South Carolina,U.S.A.	32.9860N	80.0707W		
Charley	NYC	Nevada,U.S.A.	37.1550N	116.1550W	1695	From 1971-01-01 to 1973-01-31
Charlottesville	CVVA	Virginia,U.S.A.	38.0218N	78.5321W	159	
Charlottesville	CVV	Virginia,U.S.A.	37.9814N	78.4608W	167	From 1978-07-01
Charlottesville	CVL	Virginia,U.S.A.	37.9814N	78.4608W	167	From 1978-07-01
Charlottesville	CTV	Virginia,U.S.A.	38.0326N	78.5228W	264	From 1973-07-04 to 1974-01-31
Charlottesville	CLT	Virginia,U.S.A.	38.0333N	78.5167W	150	From 1973-01-01 to 1973-12-31
Charly	CHAR	Ecuador	0.0867S	77.6708W	3315	From 2005-06-17
Charmoille	CHMF	Franche Comte,France	47.2483N	6.6517E	854	From 2010-12-01
Charnwood Forest	CWF	England,United Kingdom	52.7383N	1.3072W	186	From 1974-10-18
Charter Oak	COKM	Missouri,U.S.A.	36.7101N	89.7262W	87	
Charters Towers	CTA	Queensland,Australia	20.0883S	146.2540E	357	From 1957-09-15
Charters Towers	CTAO	Queensland,Australia	20.0883S	146.2540E	357	From 1976-10-09
Chase Mountain	VCMM	Oregon,U.S.A.	42.0955N	121.9890W	1889	
Chase Ranch	AN6*	California,U.S.A.	36.9577N	121.5840W	241	From 1967-10-05
Chase Ranch	CSR	California,U.S.A.	36.9577N	121.5840W	241	From 1967-10-05
Chase Ranch	HCRM	California,U.S.A.	36.9577N	121.5840W	241	From 1967-10-05
Chassel	D41A	Michigan,U.S.A.	47.0605N	88.5657W	271	From 2011-09-11 to 2013-11-26
Chateau	CNZ	North Island,New Zealand	39.1982S	175.5480E	1116	From 1959-12-15 to 2006-01-04
chˆcteau de Saumane	SAUF	Provence-Cote d'Azur,France	43.9377N	5.1064E	230	From 2012-07-03
chˆcteau la Riviˆœre	LRVF	Aquitaine,France	44.9478N	0.3100W	75	From 2011-03-25
Chateau Observatory	COVZ	North Island,New Zealand	39.1999S	175.5424E	1069	From 1998-03-25
CHATHAM INFRASONIC ARRAY REFERENCE POINT	I56NZ	Chatham Islands,New Zealand	43.9166S	176.4834W	14	From 2004-11-09
Chatham Island	CTZ	Chatham Islands,New Zealand	43.7355S	176.6172W	99	From 2007-12-18
Chatham Islands	CIZ	Chatham Islands,New Zealand	43.9550S	176.5660W	45	From 1932-08-01 to 2003-08-15
Chatra	CHA	Nepal	26.8333N	87.1667E	161	
Chats Falls	CFO	Ontario,Canada	45.4692N	76.2292W	70	From 1977-10-06 to 1979-02-16
Chaudanne	CHDN	Provence-Cote d'Azur,France	43.8481N	6.5408E	740	From 1993-09-01
Chaumont	CHAU	New York,U.S.A.	44.1375N	76.1742W	102	
Chauvay	CHVK	Kyrgyzstan	40.1333N	72.2167E	1760	From 1978-07-01 to 2010-05-31
Chauvin	645A	Louisiana,U.S.A.	29.4573N	90.5966W	1	From 2011-03-12 to 2012-12-09
Chavriata, Kefallonia	CHV1	Greece	38.1834N	20.3818E	0	From 2014-01-28
CHBT	CHBT	Thailand	12.7526N	102.3300E	4	From 2008-10-22
Cheb	CHE	Czech Republic	50.0794N	12.3761E	430	
Chebaa	SHBL	Lebanon	33.3483N	35.7438E	1422	From 2011-10-01
Cheddleton UK	CHDUK	England,United Kingdom	53.0675N	2.0425W	151	From 2010-03-24
Cheesecote Mountain, Pomona, NY	CMNY	New York	41.2039N	74.0469W	291	From 2014-08-01
Chefchaouen	CHEFC	Morocco	35.1100N	5.3400W	800	
Cheisacher	SULZ	Switzerland	47.5275N	8.1115E	670	From 2000-08-29
Chekchek	ICHK	Iran	32.2442N	54.4073E	2030	From 1998-10-01
Chekok	CKK	Alaska,U.S.A.	59.9597N	154.2330W	732	From 1972-07-29 to 1978-09-09
Chelan Butte	CBW	Washington,U.S.A.	47.8071N	120.0330W	1160	
Chelan Butte South	CBSW	Washington,U.S.A.	47.8046N	120.0410W	1073	From 1987-01-01
Cheltenham	CLH	Maryland,U.S.A.	38.7347N	76.8458W		From 1904-11-01 to 1928-12-31
Chemainus	AHCB	British Columbia,Canada	48.9325N	123.7373W	0	From 2004-04-17
Chemehuevi Mountains	CMH	California,U.S.A.	34.5530N	114.5720W	940	From 1975-02-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Chemin du LacGrosbois, Trois-Rives	D58A	Quebec,Canada	47.0954N	72.8826W	398	From 2013-08-16
Chemin Saint Guillaume, Saint Donat	E57A	Quebec,Canada	46.4117N	74.1471W	572	From 2013-08-06
Chemin Vers le Barrage, Saint-Michel-Des-Saints	D57A	Quebec,Canada	47.0172N	73.8878W	422	From 2013-08-18
Cheneyville 1850, Columbus	T37A	Kansas,U.S.A.	37.1230N	94.9176W	256	From 2010-05-20 to 2012-03-01
Chengdu	CNU	Sichuan,China	30.6603N	104.0110E	506	
Chengdu	CD2	Sichuan,China	30.9100N	103.7580E	628	
Chengdu	CDU	Sichuan,China	30.6603N	104.0110E	506	
Chengkung	CHKT	Taiwan region	23.0992N	121.3654E	33	
Chenhua	TWY	Taiwan region	25.2758N	121.5996E	20	From 1975-01-10
Chennai	MDRS	Tamil Nadu,India	13.0680N	80.2463E	15	
Cheonan	KSCEA	Republic of Korea	36.8231N	127.2575E	179	From 2004-12-10
CHEONGJU	KSCEJ	Republic of Korea	36.6351N	127.4390E	57	From 2000-11-21
Cheongsan-myeong	OKCB	Republic of Korea	36.3461N	127.7941E	61	From 2012-12-04
CHEONGSONG	KSCHS	Republic of Korea	36.3919N	129.0794E	247	From 2006-12-30
Cheorwon	KSCHW	Republic of Korea	38.1404N	127.3038E	154	From 2000-01-20 to 2002-11-28
Cheorwon	KSCWO	Republic of Korea	38.0833N	127.5167E	351	From 2003-11-30
Chepes	ACHE	La Rioja,Argentina	31.1610S	66.6637W	1470	
Chera	ECHE	Spain	39.5908N	0.9678W	643	From 1986-11-01
Cherat	CHER	Pakistan	33.8000N	71.9000E	1300	From 2011-03-15
Cherat	CEP	Pakistan	33.8235N	71.9090E	1376	
Cheremushki	CERR	Khakassia,Russia	52.8539N	91.4150E	400	
Chernabura Island	CNBA	Alaska,U.S.A.	54.8200N	159.5887W	94	From 1993-06-01
Chernivtsi	CHRU	Ukraine	48.2975N	25.9217E	240	From 1992-09-01
Chernovtsy	CRA	Ukraine	48.2833N	25.9333E	242	
Chernovtsy (B)	CRB	Ukraine	48.3000N	25.9333E		
Chernyshevskiy	YCRN	Sakha,Russia	63.0212N	112.4862E	319	From 2011-07-14
Cherokee Point, Campobello	W54A	South Carolina,U.S.A.	35.0857N	82.1859W	272	From 2013-02-15
Cherry Point	CPC	North Carolina,U.S.A.	34.9000N	76.8833W		From 1950-01-01 to 1956-12-31
Cherskiy	CES	Magadanskaya Oblast',Russia	68.7000N	161.2000E		
Chesbro Res.	JCBM	California,U.S.A.	37.1118N	121.6890W	192	From 1967-08-24
Chesbro Res. 1	CB1	California,U.S.A.	37.1638N	121.6258W		
Chesbro Res. 3	CB3	California,U.S.A.	37.2590N	121.6735W	329	
Chesbro Res. 4	CB4	California,U.S.A.	37.3493N	121.5327W		
Chesbro Res. 5	CB5	California,U.S.A.	37.2852N	121.7725W		
Chesbro Res. 6	CB6	California,U.S.A.	37.4513N	121.7990W	240	
Chesbro Res. 8	CB8	California,U.S.A.	37.1588N	121.8470W	280	
Chesbro Reservoir	CBO	California,U.S.A.	37.1118N	121.6890W	192	From 1967-08-24
Cheshme madani	CHMN	Iran	29.8608N	57.5396E	2923	From 2010-05-05
Cheshme Sefid, Kermanshah	KCHF	Iran	34.2750N	47.0404E	1714	
Chester	J61A	Vermont,U.S.A.	43.3462N	72.5535W	253	From 2013-09-06
Chester	O04C	California,U.S.A.	40.3200N	121.0860W	1513	From 2005-05-25 to 2007-11-27
Chesterland	M52A	Ohio,U.S.A.	41.5405N	81.3570W	382	From 2013-01-17
Chesterland	CCHE	Ohio,U.S.A.	41.5612N	81.3620W	365	
Chestnut Mountain	CMGA	Georgia,U.S.A.	34.6290N	85.0340W	478	
Cheticamp, Nova Scotia	CHEG	Nova Scotia,Canada	46.8084N	60.6745W	446	From 2005-10-19
Chet-Su	CHET	Uzbekistan	41.0600N	70.2400E	1136	
Chetwynd	CTC	British Columbia,Canada	55.6417N	121.7500W		From 1967-12-01 to 1973-04-06
Cheung Chau	CCHK	Hong Kong,China	22.2013N	114.0267E	73	
Chews Ridge	BCWM	California,U.S.A.	36.3067N	121.5660W	1518	
Cheyenne	M24A	Wyoming,U.S.A.	41.4676N	104.8248W	1816	From 2008-07-14 to 2010-05-11
Cheyenne	CY-	Wyoming,U.S.A.	41.4167N	104.8600W	1920	From 1962-07-06 to 1962-07-11
Cheyenne	CY-WY	Wyoming,U.S.A.	41.4167N	104.8600W	1920	From 1962-07-06 to 1962-07-11
Chiang Mai	CHG	Thailand	18.8138N	98.9438E	416	From 1963-03-01
Chiang Mai	CMMT	Thailand	18.8128N	98.9480E	399	From 2008-12-01
Chiang Mai	CHTO	Thailand	18.8138N	98.9438E	316	From 1977-06-01
Chiang Mai Array Beam Reference Point	CMAR	Thailand	18.4575N	98.9429E	307	
Chiang Mai Array Site 1	CM01	Thailand	18.4205N	98.9588E	292	
Chiang Mai Array Site 10	CM10	Thailand	18.4298N	99.0019E	341	
Chiang Mai Array Site 11	CM11	Thailand	18.3756N	98.9604E	320	
Chiang Mai Array Site 12	CM12	Thailand	18.4061N	98.9254E	330	
Chiang Mai Array Site 13	CM13	Thailand	18.4211N	98.9069E	303	
Chiang Mai Array Site 14	CM14	Thailand	18.4361N	98.9136E	322	
Chiang Mai Array Site 15	CM15	Thailand	18.4524N	98.9245E	324	
Chiang Mai Array Site 16	CM16	Thailand	18.4575N	98.9429E	358	
Chiang Mai Array Site 17	CM17	Thailand	18.4577N	98.9624E	325	
Chiang Mai Array Site 18	CM18	Thailand	18.4610N	98.9830E	314	
Chiang Mai Array Site 2	CM02	Thailand	18.4344N	98.9466E	305	
Chiang Mai Array Site 3	CM03	Thailand	18.4263N	98.9762E	304	
Chiang Mai Array Site 31	CM31	Thailand	18.4575N	98.9429E	306	
Chiang Mai Array Site 32	CM32	Thailand	18.6533N	98.8469E	292	
Chiang Mai Array Site 33	CM33	Thailand	18.8177N	98.9466E	358	
Chiang Mai Array Site 34	CM34	Thailand	18.8511N	99.1498E	315	
Chiang Mai Array Site 35	CM35	Thailand	18.6781N	99.1539E	283	
Chiang Mai Array Site 36	CM36	Thailand	18.5182N	99.0954E	310	
Chiang Mai Array Site 4	CM04	Thailand	18.3997N	98.9789E	336	
Chiang Mai Array Site 5	CM05	Thailand	18.4013N	98.9451E	336	
Chiang Mai Array Site 6	CM06	Thailand	18.4156N	98.9406E	332	
Chiang Mai Array Site 7	CM07	Thailand	18.4337N	98.9304E	302	
Chiang Mai Array Site 8	CM08	Thailand	18.4453N	98.9577E	295	
Chiang Mai Array Site 9	CM09	Thailand	18.4439N	98.9908E	345	
Chiangrai	CRAI	Thailand	20.2289N	100.3734E	356	
Chiangrai	CHRT	Thailand	19.8709N	99.7827E		From 1996-07-01
Chiapa de Corzo	CZC	Chiapas,Mexico	16.7120N	93.0200W	418	
Chiapas	LIBM	Chiapas,Mexico	17.2940N	93.0120W		
Chiapas	ARL	Chiapas,Mexico	17.4120N	93.1180W		
Chiapas	ZZA	Chiapas,Mexico	15.1333N	92.3167W		
Chiapas	PENM	Chiapas,Mexico	17.4360N	93.5280W		
Chiapas	PORM	Chiapas,Mexico	17.1790N	93.3950W		
Chiapas	UJZ	Chiapas,Mexico	15.0750N	92.0833W		
Chiapas	MARM	Chiapas,Mexico	17.2180N	92.6930W		
Chiapas	BJU	Chiapas,Mexico	16.8768N	93.1791W		
Chiapas	VGP	Chiapas,Mexico	17.3572N	93.6140W		
Chiapas	TANM	Chiapas,Mexico	16.9190N	93.1150W		
Chiapas	PAY	Chiapas,Mexico	17.4717N	93.4913W		
Chiapas	SIPM	Chiapas,Mexico	17.2230N	93.1570W		
Chiautla de Tapia	CHPM	Puebla,Mexico	18.2986N	98.6132W	1030	
Chiavari	CHV	Italy	44.3153N	9.3236E		
Chiawan	TWD	Taiwan region	24.0800N	121.5960E	30	From 1972-09-25
Chiayi	CHY	Taiwan region	23.4977N	120.4240E	27	
Chibit, Altay Republic, Russia	CHBI	Altayskiy Kray,Russia	50.3132N	87.5034E	1164	From 2003-08-12
Chibotane	CBTN	Mozambique	23.8405S	32.1843E	154	
Chibougamau	CHGQ	Quebec,Canada	49.9105N	74.3748W	405	From 2007-10-11
Chicago	CGI	Illinois,U.S.A.	41.9800N	87.7183W		
Chicago	CHK	Illinois,U.S.A.	41.7889N	87.5992W	180	From 1918-01-01 to 1967-12-31
Chicago-Loyola	CHI	Illinois,U.S.A.	41.9000N	87.6333W	183	From 1912-09-01
Chichaoua	CIA	Morocco	31.5650N	8.7590W	473	
Chichibu	CHJ	Saitama,Japan	35.9917N	139.0820E	219	
Chichibu	CHJJ	Saitama,Japan	36.0483N	138.9950E	187	From 1978-01-01
Chichijima	JCJ	Bonin Islands,Japan	27.0955N	142.1846E	164	From 2008-11-28
Chichi jima	CBI	Bonin Islands,Japan	27.0897N	142.1883E	3	From 1975-01-01
Chichi jima	CBIJ	Bonin Islands,Japan	27.0957N	142.1845E	145	
Chichinautzin	CHVM	Mexico D.F.,Mexico	19.0873N	99.1473W	3213	
Chichi shima	TTZ	Bonin Islands,Japan	27.0833N	142.1830E		
Chiclayo	CHP8	Peru	6.7650S	79.8650W	60	From 1982-08-01
Chico	CCO	California,U.S.A.	39.0642N	121.0090W	60	From 1972-02-23
Chicoasen	CSN	Chiapas,Mexico	16.9690N	93.1080W	320	
Chicoasen 1	CR1	Chiapas,Mexico	17.0453N	93.1152W	1200	
Chicoasen 2	CR2	Chiapas,Mexico	16.8850N	92.9580W	1743	
Chicoasen 3	CR3	Chiapas,Mexico	16.8143N	92.9547W	1200	
Chicoasen 4	CR4	Chiapas,Mexico	16.7172N	93.0748W	900	
Chicoasen 5	CR5	Chiapas,Mexico	16.8168N	93.1188W	1300	
Chicoasen 6	CR6	Chiapas,Mexico	16.9582N	93.2260W	1700	
Chicoasen 7	CR7	Chiapas,Mexico	17.2330N	93.1700W	1750	
Chicoutimi	CIQ	Quebec,Canada	48.2723N	70.7908W	273	
Chicoutimi-Nord	CHIQ	Quebec,Canada	48.4900N	71.0100W	0	From 1984-09-21
Chidago Canyon	MCDM	California,U.S.A.	37.5480N	118.4434W	1411	
Chidliak Camp Nunavut	CDKN	Northwest Territories,Canada	64.2348N	66.3440W	65	From 2009-08-20
Chieng Khoang	CKVB	Vietnam	21.5637N	103.6875E	337	
Chieng Lao	CLVV	Vietnam	21.6130N	103.9368E	237	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Chiengmai2	CMAI	Thailand	19.9325N	99.0453E	1502	
Chiesa Nuova, Poggio Renatico (FE)	CAS08	Italy	44.7726N	11.4322E	11	From 2012-05-22
Chiesuol del Fosso FE	T0820	Italy	44.7912N	11.5732E	7	From 2012-05-20 to 2012-07-09
Chignik	CHGN	Alaska,U.S.A.	56.3014N	158.4141W	16	
Chigu Township	TSCK	Taiwan region	23.1470N	120.0860E	13	From 2002-11-06
Chihuahua	CHH	Chihuahua,Mexico	28.6367N	106.0783W	1430	
Chihuahua	CHIX	Baja California,Mexico	32.4867N	115.2418W	15	From 1987-02-01
CHI Itaipu Binacional	VTF1	Parana,Brazil	25.4069S	54.4381W	259	From 1980-01-01
CHI Itaipu Binacional	ITF4	Parana,Brazil	25.3103S	54.2555W	354	From 1980-01-01
CHI Itaipu Binacional	ITF10	Parana,Brazil	24.7942S	54.2089W	463	From 1980-01-01
CHI Itaipu Binacional	MOND	Paraguay	25.6147S	54.6003W	177	From 1980-01-01
CHI Itaipu Binacional	ITF11	Paraguay	24.6469S	54.3886W	361	From 1980-01-01
CHI Itaipu Binacional	ITF6	Paraguay	25.1794S	54.6014W	308	From 1980-01-01
Chijiwa	CJA	Nagasaki,Japan	32.7842N	130.2106E	88	
Chilao Flats	CFL	California,U.S.A.	34.3330N	118.0239W	1560	
Chilao Flat Sta	CHFC	California,U.S.A.	34.3334N	118.0259W	1594	
Chilbolton	CLB	England,United Kingdom	51.1436N	1.4328W	80	From 1976-05-01 to 1999-08-25
Childara	CHLD	Tajikistan	38.7700N	70.3000E	1700	
Childress 1	CEC	Texas,U.S.A.	34.5720N	100.3260W	548	
Childress 2	CNE	Texas,U.S.A.	34.5838N	100.3100W	555	
Childress 3	CNO	Texas,U.S.A.	34.5780N	100.3350W	562	
Childress 4	CNW	Texas,U.S.A.	34.5917N	100.3600W	540	
Childress 5	CSE	Texas,U.S.A.	34.5558N	100.3310W	521	
Childress 6	CSW	Texas,U.S.A.	34.5570N	100.3480W	546	
Childress 7	CWT	Texas,U.S.A.	34.5703N	100.3440W	549	
Childs Glacier	CSG	Alaska,U.S.A.	60.6610N	144.8550W	678	From 1984-01-01
Chilecito	CCT	La Rioja,Argentina	29.1667S	67.5000W		
Chileka	CLK	Malawi	15.6800S	34.9767E	781	
Chilgok	KSCIG	Republic of Korea	36.0386N	128.3832E	0	From 2007-12-17
Chili	H40A	Wisconsin,U.S.A.	44.6220N	90.3905W	372	From 2011-08-05 to 2013-06-08
Chilik	CHL	Kazakhstan	43.5270N	78.3740E	760	
Chillagoe	CHIL	Queensland,Australia	17.1505S	144.5306E	423	
Chillan	CCHI	Bio-Bio,Chile	36.6027S	72.0772W	123	
Chilliwack	A06A	British Columbia,Canada	49.0983N	121.4804W	576	From 2006-10-18 to 2008-05-21
Chiloquin, OR	K04D	Oregon,U.S.A.	42.6246N	121.7535W	1315	From 2009-10-13
Chilquin	K04A	Oregon,U.S.A.	42.6133N	121.7307W	1305	From 2006-05-23 to 2007-10-27
Chimachoy	CIM	Guatemala	14.5838N	90.8667W	2450	From 1975-03-01 to 1999-08-25
Chimborazo	CHI1	Ecuador	1.4187S	78.8148W	4440	From 1992-02-13 to 2002-07-01
Chimborazo	CHIM	Ecuador	1.4203S	78.8614W	4100	From 1990-01-01 to 1991-12-31
Chimborazo Volcano	PORT	Ecuador	1.4633S	78.7732W	4469	From 2007-03-22
Chimeneas	EXCH	Spain	37.1320N	3.8240W	717	
Chimeneas	ACHM	Spain	37.1050N	3.8297W	862	
Chimkent	TCH	Kazakhstan	42.3190N	69.6030E		
Chimkent	CHM	Kazakhstan	42.3190N	69.6030E	512	
Chimney Peak	WCHM	California,U.S.A.	35.8830N	118.0750W	2475	
China Gardens	WCGM	California,U.S.A.	36.1900N	117.6240W	1689	From 1975-09-26
China Gardens South	CGSM	California,U.S.A.	36.1900N	117.6240W	1689	From 1975-09-26
China Grove, San Antonio	634A	Texas,U.S.A.	29.3815N	98.3515W	188	From 2009-12-06 to 2011-10-08
China Lake	CLC	California,U.S.A.	35.8158N	117.5975W	775	From 1949-07-08
China Lake	GPO	California,U.S.A.	35.6494N	117.6619W	705	
China Lake Receiver Site	WCXM	California,U.S.A.	35.7116N	117.5945W	654	
Chinameca	UCHI	El Salvador	13.5118N	88.3490W	565	
Chinandega	CHIN	Nicaragua	12.6430N	87.0270W	300	
China Poot	CNPM	Alaska,U.S.A.	59.5258N	151.2360W	564	
Chinchina	CHN	Colombia	4.9667N	75.6167W	1360	From 1949-08-01
Chingaza	CHIC	Colombia	4.6295N	73.7318W	3140	From 1994-01-01
Chingoma	CHGM	Mozambique	16.8531S	36.8383E	247	From 2010-05-25
Chin-men Tao	KNMB	Taiwan region	24.4638N	118.3884E	43	
Chino	CHNC	California,U.S.A.	33.9988N	117.6804W	208	
Chio	CHIO	Canary Islands,Spain	28.2398N	16.8162W	432	From 2004-05-27
Chios island	CHOS	Greece	38.3868N	26.0550E	842	From 2006-03-29
CHIPINGE	CHIPN	Zimbabwe	20.2334S	32.6466E	982	From 2013-02-25
Chirah Chowk	CHCP	Pakistan	33.6583N	73.2638E	579	
Chiredzi	CIR	Zimbabwe	21.0133S	31.5800E	430	
Chirikof Island	CHIR	Alaska,U.S.A.	55.8225N	155.6205W	234	
Chirikof Island	CHIA	Alaska,U.S.A.	55.8378N	155.5797W	250	
Chiripa	AR6	Costa Rica	10.4458N	84.9098W	1010	
Chiripa	CHPA	Costa Rica	10.4430N	84.9077W	1059	From 2000-01-01
Chironico	CHIR1	Switzerland	46.4198N	8.8330E	800	From 2005-12-15
Chisagues Bielsa	ECHI	Spain	42.6646N	0.1946E	1450	From 2010-12-09
Chistovodnoe	CHST	Sakhalinskaya Oblast',Russia	47.0220N	142.3080E	244	From 1990-01-09 to 1992-03-03
Chita	CIT	Chitinskaya Oblast',Russia	52.0211N	113.5519E	790	From 1970-01-01
Chita	CHTJ	Aichi,Japan	34.7303N	136.9066E	40	
Chita	CHIT	Bolivia	20.0756S	66.8851W	3862	From 1994-05-30 to 1995-05-10
CHITILA	GSMB	Romania	44.4813N	26.0273E	85	From 2008-10-30
Chitina Glacier	CTGM	Alaska,U.S.A.	60.9650N	141.3330W	1554	From 1979-09-05
Chitral	CHT1	Pakistan	35.9220N	71.8440E	1576	From 2009-08-20
Chitral	CHTL	Pakistan	35.8800N	71.7800E	1494	From 2007-10-10
Chittagong	CHT	Bangladesh	22.3500N	91.8167E	35	
Chitwood Farm, Usk	B10A	Washington,U.S.A.	48.2995N	117.2252W	585	From 2006-08-30 to 2008-06-11
Chiusi della Verna (AR)	AR03	Italy	43.7681N	11.9176E	752	From 2011-05-26 to 2011-09-30
Chize	CHIF	France	46.1330N	0.4080W	62	
Chizu	CZT	Tottori,Japan	35.2695N	134.2936E	300	
Chkalov	CKLZ	Armenia	40.9350N	44.6510E	1410	
Chkalova array site	CHK4	Kazakhstan	53.6952N	70.6431E	131	From 1995-08-11
Chkalova array site	CHK9	Kazakhstan	53.6975N	70.6002E	132	From 1995-08-11
Chkalova array site	CHK8	Kazakhstan	53.6796N	70.5731E	140	From 1995-08-11
Chkalova array site	CHK6	Kazakhstan	53.6509N	70.6324E	148	From 1995-08-11
Chkalova array site	CHK5	Kazakhstan	53.6716N	70.6592E	136	From 1995-08-11
Chkalova array site	CHK7	Kazakhstan	53.6539N	70.5869E	147	From 1995-08-11
Chkalovo	CHKZ	Kazakhstan	53.6761N	70.6153E	123	From 1994-07-23
Ch'k'valeri	CHVG	Georgia,Georgia	42.7183N	42.0841E	390	
CHN6	CHN6	Taiwan region	23.7352N	120.3953E	22	From 1994-01-25 to 1997-09-30
Chocan	CHP3	Peru	5.1800S	80.9619W	200	From 1979-12-01
Chocolate Mountain	CH2	California,U.S.A.	33.2962N	115.3360W	347	From 1977-12-01 to 2008-07-06
Chocolate Mountains	COT	California,U.S.A.	33.3052N	115.3530W	294	From 1973-04-16 to 2002-12-20
Choctaw High	OK006	Oklahoma,U.S.A.	35.4780N	97.2787W	358	
Chokchoi	CKH	Sakha,Russia	57.6500N	121.7200E	240	From 1989-06-01
Cholame Creek	CCRB	California,U.S.A.	35.9572N	120.5515W	350	
Cholame Hills	PCMM	California,U.S.A.	35.8055N	120.4096W	671	
Cholame Valley	CVC	California,U.S.A.	35.8242N	120.3510W		
Choma	CHMZ	Zambia	16.8333S	27.0667E	1278	From 1987-01-01
Chonco	CNR	Nicaragua	12.6725N	87.0722W	240	From 1975-01-01
Choranche	OG13	Rhone-Alpes,France	45.0733N	5.3995E	560	From 1989-08-11
Chor-Sady	CSD	Tajikistan	38.8500N	69.7800E		
Chorzow	CHZ	Poland	50.2925N	18.9917E	316	From 1960-01-01
Chorzow	CHZP	Poland	50.2910N	18.9920E	312	From 2009-11-11
Choshi	COJ	Chiba,Japan	35.7022N	140.8550E	-42	
Chosi	CHO	Chiba,Japan	35.7250N	140.8433E	27	
Chosi	CHOJ	Chiba,Japan	35.7027N	140.8587E	62	From 1986-11-08
Chosi	CHO1	Chiba,Japan	35.7367N	140.8617E	28	From 1986-08-22 to 1986-11-08
Chowiet Island	CHW	Alaska,U.S.A.	56.0333N	156.7120W	160	From 1974-01-01
Choya	CYA	Catamarca,Argentina	28.4417S	65.8020W	570	From 1971-02-01
Chr Bro Hi School	CBHT	Tennessee,U.S.A.	35.1326N	89.8657W	79	
Chr Cany lake	CCCA	California,U.S.A.	35.5249N	117.3645W	670	
Chrisman Ranch, Davenport	C09A	Washington,U.S.A.	47.8006N	118.2741W	495	From 2006-09-19 to 2009-01-08
Christchurch	CHR	South Island,New Zealand	43.5311S	172.6268E	8	From 1901-11-01 to 1991-09-02
Christianburg	CBT	Tennessee,U.S.A.	35.5394N	84.4206W	357	
Christianenhaus	CHRS	Thuringen,Germany	51.6084N	10.8183E	585	From 2011-10-01
Christmas Canyon	XMS	California,U.S.A.	35.5233N	117.3550W	704	
Christmas Creek	CKR	Alaska,U.S.A.	64.6680N	160.5305W	671	
Christmas Island	XMI	Christmas Island,Australia	10.4495S	105.6895E	277	From 1976-09-27
Christmas Island	XMIS	Christmas Island,Australia	10.4807S	105.6519E	243	From 2005-08-16
Christmas Valley	J06A	Oregon,U.S.A.	43.2515N	120.1528W	1407	From 2006-01-31 to 2008-04-10
Chrome Mountain	CRMT	Montana,U.S.A.	45.4558N	110.1402W	2941	
Chua Tram	CTVN	Vietnam	20.9382N	105.6888E	50	
Chuberi	CBRG	Georgia,Georgia	43.0617N	42.1768E	1148	From 1968-01-01
Chuchupate	CHP	California,U.S.A.	34.8083N	119.0120W	1590	From 1952-01-01 to 1952-11-30
Chudeng	CHUD	Xizang Zizhiqu,China	29.6981N	91.1361E	3771	From 2005-03-28

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Chuian-Garon	CGT	Tajikistan	38.6500N 69.1500E	1050	From 1965-01-01 to 1993-01-01
Chulitna	CUT	Alaska,U.S.A.	62.4047N 150.2690W	168	From 1986-07-18
Chul'man	CL1S	Sakha,Russia	56.8500N 124.9000E	650	From 1962-01-01 to 1986-12-31
Chul'man	CLNS	Sakha,Russia	56.8369N 124.8931E	704	
Chumby, Stover	R39A	Missouri,U.S.A.	38.3138N 93.0383W	290	From 2010-12-08 to 2012-09-14
Chumysh	CHMS	Kazakhstan	42.9986N 74.7513E	655	
Chuncheon	KSCHC	Republic of Korea	37.7776N 127.8145E	241	
Chungju	KSCHJ	Republic of Korea	36.8729N 127.9748E	219	
Chupsang	CHUS	Xizang Zizhiqu,China	29.9970N 90.7462E	4113	From 2005-08-25
Chupungnyeong	KSCPN	Republic of Korea	36.2169N 127.9913E	242	From 2000-02-24
CHUPUNGNYEONG	KSCPR	Republic of Korea	36.2210N 127.9719E	284	From 2006-12-30
Chuquichambi	CHUQ	Bolivia	17.9467S 67.8162W	4178	From 1995-01-01 to 1995-05-06
Chur	CHU	Switzerland	46.8499N 9.5367E	630	
Church	CHB	Alaska,U.S.A.	64.2577N 149.1700W	196	
Church Bay	WCB1	Wales,United Kingdom	53.3782N 4.5467W	139	From 1985-01-01
Church Hills	CHTN	Tennessee,U.S.A.	36.5847N 82.7200W	558	From 1983-02-10 to 1986-01-09
Churchill	CH-MT	Manitoba,Canada	58.6069N 93.8167W	38	From 1965-10-22 to 1965-11-09
Churchill	CH-	Manitoba,Canada	58.6069N 93.8167W	38	From 1965-10-22 to 1965-11-09
Chur Gewerbeschulhaus	SCUG	Switzerland	46.8561N 9.5238E	578	From 2011-11-25
Churui	JCH	Tokachi,Japan	42.6143N 143.3623E	120	
Chusal	CHS	Tajikistan	39.1000N 70.7667E	1670	
Chushkaly	CHKK	Kazakhstan	43.8540N 76.9880E	540	From 1989-05-11
Chusmiza	GO01	Chile	19.6685S 69.1942W	3809	
Chutung	TWR	Taiwan region	24.6401N 121.0786E	760	From 1974-02-11
Chuyangaron	CHGR	Tajikistan	38.6569N 69.1582E	1049	
Chvalec	CHVC	Czech Republic	50.5881N 16.0547E	598	From 2009-05-20
Chylin	CYP	Poland	51.2933N 23.3000E	100	From 1976-01-01 to 1991-12-31
Cibinong	KMSI	Sulawesi,Indonesia	0.5745N 123.9807E	0	From 2007-12-01
Cibinong	CGJI	Jawa,Indonesia	6.6135S 105.6929E	0	From 2007-12-01
Cibinong	CNJI	Jawa,Indonesia	7.3090S 107.1296E	0	From 2007-12-01
Cicekdag	CDAG	Turkey	39.6236N 34.3719E	1136	From 2005-03-23
Cicese	CCX	California,U.S.A.	31.8683N 116.6633W	30	
Cienega Rd	AN14*	California,U.S.A.	36.7092N 121.3430W	305	From 1969-05-29
Cienega Road	BCGM	California,U.S.A.	36.7092N 121.3430W	305	From 1969-05-29
Cifteler, Eskisehir	CIFT	Turkey	39.3612N 31.0625E	892	From 2013-03-15
CIGO, UAF Yankovich Road, Fairbanks	TCOL	Alaska,U.S.A.	64.8735N 147.8618W	178	From 2012-10-08
Cihanbeyli	CHBY	Turkey	38.5823N 32.8901E	1086	From 2010-06-29
Cilcuayo	CIVM	Mexico D.F.,Mexico	19.1032N 98.9858W	3530	
Cilicap	CLJI	Jawa,Indonesia	7.7187S 109.0150E	46	From 2005-01-01
Cilov Adasi	ZHI	Azerbaijan	40.3250N 50.5900E	-24	From 1968-01-01
Cima Grappa	CGRP	Italy	45.8800N 11.8000E	1757	
Cimarron	R21A	Colorado,U.S.A.	38.3685N 107.5501W	2260	From 2007-11-14 to 2010-02-07
CIMA - Sant'Angelo dei Lombardi	SALI3	Italy	40.9300N 15.1800E	872	
Cimerak	CMJI	Jawa,Indonesia	7.7837S 108.4485E	0	From 2007-12-01
Cimolais	CIMO	Italy	46.3100N 12.4400E	610	
Cinarcik-Koru-Yalova	SBT1	Turkey	40.7056N 29.1491E	-1260	From 2010-12-31
Cincinnati	CNN	Ohio,U.S.A.	39.1450N 84.4967W	203	From 1927-01-01 to 1963-12-31
Cinco Dias	PCON	Colombia	2.3280N 76.3970W	4294	
Cine	CIN	Turkey	37.6000N 28.0867E	120	From 1956-06-01
Cinebar	E04D	Washington,U.S.A.	46.5566N 122.5673W	204	From 2010-08-26
Cingoli	CING	Italy	43.3756N 13.1954E	626	From 2003-11-19
Ciorogarla	CIOR	Romania	44.4489N 25.8799E	138	From 2003-11-02
Cipolletti	CIP	Rio Negro,Argentina	38.9333S 68.1333W		
Cipreses	CICH	O'Higgins,Chile	34.3198S 70.4205W	1200	
Circle Bar Ranch, Crane	J08A	Oregon,U.S.A.	43.3580N 118.4743W	1229	From 2006-06-28 to 2009-01-08
Circle Bar Ranch, Sunflower	Y16A	Arizona,U.S.A.	33.8798N 111.4783W	1068	From 2007-03-21 to 2008-12-02
Circle Diamond K Ranch, Victoria	736A	Texas,U.S.A.	28.9550N 97.0673W	45	From 2010-04-18 to 2011-11-12
Circle Dot Ranch, Maxwell	U25A	New Mexico,U.S.A.	36.3998N 104.4081W	1845	From 2008-05-12 to 2010-04-15
Circle Ranch, Eureka	P11A	Nevada,U.S.A.	39.5530N 115.7536W	1787	From 2006-05-28 to 2008-09-09
Circular Butte	CRBI	Idaho,U.S.A.	43.8303N 112.6350W	1543	
C^›rculo Militar	CIRC	Ecuador	0.1963S 78.4875W	2791	From 2010-08-19
Cirque	CRQM	Alaska,U.S.A.	60.7567N 143.1390W	1853	From 1988-07-01
Cisc	CISC	Cuba	20.0020N 75.7710W		
Cisompet, Garut	CISI	Jawa,Indonesia	7.5557S 107.8153E	544	From 2008-07-21
Cisternazza	ECIS	Sicily,Italy	37.8360N 14.9953E	1342	From 1992-10-01
Citeko	CBJI	Jawa,Indonesia	6.4200S 106.8500E	0	
Citronelle, Rodrigues Island	RODM	Mauritius	19.6962S 63.4413E	300	
Citronen Fjord	CFJ	Greenland	83.0835N 28.3208W	60	From 2004-07-28 to 2007-05-12
Citt^ di Castello	CCPC	Italy	43.4779N 12.2539E	310	From 2011-10-01
Cittanova	ME10	Italy	38.3029N 16.1953E	728	From 2007-11-21 to 2009-02-05
Citt' di Castello	CDCA	Italy	43.4584N 12.2336E	50	From 2006-07-13
City College NY	CNY	New York,U.S.A.	40.8217N 73.9533W		
Ciudad Altamirano	CDAM	Guerrero,Mexico	18.3500N 100.6500W	300	
Ciudad Bolivar, Antioquia	CBOC	Colombia	5.8640N 76.0120W	1401	From 2013-08-07
Ciudad Guzman	CGX	Jalisco,Mexico	19.6917N 103.5080W	1530	
Ciudad Serdan	IISM	Puebla,Mexico	18.9880N 97.3768W		
Civita di Ruta - Ottati	CDRU	Italy	40.4896N 15.3046E	1057	From 2005-10-13
Civitanova Marche	CIMA	Italy	43.3059N 13.6701E	163	From 2010-03-15
Civitella Cesi - VT	TO09	Italy	42.1868N 12.0181E	220	From 2009-01-14 to 2009-04-02
CL01	CL01	Romania	45.8230N 26.3670E	1759	
CL02	CL02	Romania	45.7710N 26.5090E	1103	
CL03	CL03	Romania	45.6590N 26.5780E	369	
CL04	CL04	Romania	45.6020N 26.4090E	1641	
CL05	CL05	Romania	46.0310N 26.3850E	773	
Clabaugh Cattle Company, Gillette	H23A	Wyoming,U.S.A.	44.5620N 105.4007W	1213	From 2008-10-18 to 2010-09-06
Clairette	234A	Texas,U.S.A.	32.0040N 98.1368W	358	From 2009-11-17 to 2011-10-01
Clancy	CMT	Montana,U.S.A.	46.5167N 111.9330W	1402	From 1974-01-01
Clara Peak	CLP	New Mexico,U.S.A.	36.0358N 106.2400W	2591	From 1973-09-01
Clarenceville	G59A	Quebec,Canada	45.0807N 73.1809W	36	From 2013-09-17
Clark Canyon Reservoir	CCMT	Montana,U.S.A.	44.9150N 112.8740W	1926	From 1985-07-24 to 1989-08-30
Clarke City	SMQ	Quebec,Canada	50.2225N 66.7028W	344	
Clark Hill Reservoir	CH6	Georgia,U.S.A.	33.8792N 82.5194W	146	From 1975-12-01
Clark Hill Reservoir	LDVG	Georgia,U.S.A.	34.1478N 82.6833W	162	
Clark Hill Reservoir	BEVG	Georgia,U.S.A.	34.0893N 82.7333W	158	
Clark Hill Reservoir	IVAG	Georgia,U.S.A.	34.2721N 82.7460W	168	
Clark Hill Reservoir	CH5	Georgia,U.S.A.	33.7333N 82.3250W	132	From 1975-12-01
Clarkson	K49A	Michigan,U.S.A.	42.7835N 83.4556W	336	From 2012-10-11
Clark State Community College	CSCO	Ohio,U.S.A.	39.8950N 83.7980W	304	
Clarkstown	CLAR	New York,U.S.A.	41.1887N 74.0037W	76	
Clarksville	U47A	Tennessee,U.S.A.	36.4413N 87.2892W	145	From 2011-12-03
Clark Valley	GCK	California,U.S.A.	39.5438N 122.4367W	251	
Clatskanie	B023	Oregon,U.S.A.	46.1112N 123.0787W	-55	
Clausthal	CLZ	Niedersachsen,Germany	51.8416N 10.3724E	680	
Claut1	CLA1	Italy	46.2660N 12.5170E	612	
ClautB	CLAB	Italy	46.2720N 12.5120E	672	
Clavier	BCLA	Belgium	50.4196N 5.3029E	235	From 1991-10-29
Clay Center	CCNE	Nebraska,U.S.A.	40.5037N 97.9367W	529	
Clayton	CT-OK	Oklahoma,U.S.A.	34.4881N 95.1272W	305	From 1962-07-14 to 1962-10-05
Clayton	X37A	Oklahoma,U.S.A.	34.5892N 95.3713W	207	From 2010-04-21 to 2012-02-27
Clayton	CT-	Oklahoma,U.S.A.	34.4881N 95.1272W	305	From 1962-07-14 to 1962-10-05
Clayton Basin, Artesia	126A	New Mexico,U.S.A.	32.6462N 104.0204W	1032	From 2008-03-15 to 2010-02-16
Clayton Lake	E62A	Maine,U.S.A.	46.6201N 69.5227W	356	From 2013-10-09
Clear Creek Butte	CCB	Alaska,U.S.A.	64.6467N 147.8050W	219	From 1971-02-25
Clear Creek Ranch, Tonopah	Q10A	Nevada,U.S.A.	38.8247N 116.3999W	2027	From 2007-02-05 to 2008-09-13
Clear Mews	CMA	Alaska,U.S.A.	64.2900N 149.1800W	181	From 1964-01-01 to 1974-01-31
Clearmont	H22A	Wyoming,U.S.A.	44.5943N 106.3521W	1276	From 2008-10-09 to 2010-09-09
Cle Elum	D06A	Washington,U.S.A.	47.1935N 120.8445W	575	From 2006-09-12 to 2008-05-12
Clemmons Ranch, Yeso	X25A	New Mexico,U.S.A.	34.5271N 104.6621W	1494	From 2008-04-27 to 2010-03-20
Clermont-Ferrand	NE16	Auvergne,France	45.7630N 3.1112E	400	From 1984-11-01 to 2001-07-28
Clermont-Ferrand	CFF	Auvergne,France	45.7630N 3.1112E	400	From 1984-11-01
Cleve	CLV	South Australia,Australia	33.6911S 136.4960E	238	From 1963-10-01
Cleveland	CLE	Ohio,U.S.A.	41.4888N 81.5321W	328	
Cleveland	W51A	Tennessee,U.S.A.	35.1606N 84.7599W	260	From 2012-06-13
Cleveland Dam	CLVB	British Columbia,Canada	49.3817N 123.1447W	427	
Cleveland Museum of Natural History	CLEO	Ohio,U.S.A.	41.5120N 81.6140W	192	
Clever	T39A	Missouri,U.S.A.	37.0241N 93.3774W	366	From 2010-12-16 to 2012-10-28
Cliffside	CFM	Montana,U.S.A.	48.2081N 115.4580W	886	From 1971-02-01 to 1974-07-09
Cliffs of the Neuse	CNNC	North Carolina,U.S.A.	35.2393N 77.8901W	29	From 2006-06-26
Climax Mine	NYM	Nevada,U.S.A.	37.2313N 116.0520W	1603	From 1971-01-01 to 1973-01-31

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
CLINCENI	CLIR	Romania	44.3784N	25.9414E	88	From 2008-11-06
Clinton	E14A	Montana,U.S.A.	46.4162N	113.4926W	1675	From 2006-10-12 to 2009-06-12
Clinton	CLIN	New York,U.S.A.	41.8750N	73.8490W	168	From 1978-05-01 to 1983-02-25
Clinton	W59A	North Carolina,U.S.A.	35.1673N	78.4430W	60	From 2013-03-09
Clintwood	CI-VA	Virginia,U.S.A.	37.1936N	82.4158W	549	From 1962-10-15 to 1962-10-27
Clintwood	CI-	Virginia,U.S.A.	37.1936N	82.4158W	549	From 1962-10-15 to 1962-10-27
Cloghs, Cushendall	CLGH	Northern Ireland,United Kingdom	55.0828N	6.1106W	239	From 2012-01-30
Closani	CLO	Romania	45.0739N	22.8019E	335	From 1982-09-01
Cloverdale	GCVM	California,U.S.A.	38.7697N	123.0140W	150	From 1975-05-07
Clover Valley, Wells	N12A	Nevada,U.S.A.	40.8522N	115.0387W	1786	From 2006-05-10 to 2008-08-09
Cludinico	CLUD	Italy	46.4569N	12.8814E	635	From 2011-02-15
Cluj	CLU	Romania	46.7500N	23.6500E		
Cluj-Napoca	CJR	Romania	46.7133N	23.5981E	750	From 1979-01-01
Cluj-Napoca	CJR1	Romania	46.7661N	23.5514E	345	From 1985-12-01
Clyde	CYZ	South Island,New Zealand	45.1442S	169.3296E	606	From 1984-04-04 to 1987-02-26
Clyde River	CLRN	Nunavut,Canada	70.4743N	68.5871W	9	From 2011-01-13
CM02E	CM02E	Romania	45.3760N	26.3910E	526	
CM03E	CM03E	Romania	45.2650N	26.2670E	338	
CM05E	CM05E	Romania	44.8010N	26.2730E	105	
CM08E	CM08E	Romania	45.1890N	26.5780E	185	
CMO6E	CMO6E	Romania	44.8880N	26.0490E	191	
CMU Biological Station, Beaver Island	F45A	Michigan,U.S.A.	45.6837N	85.5156W	173	From 2011-09-23
CN03	CN03	Romania	46.2400N	27.8480E	278	
CN05	CN05	Romania	44.3450N	28.0450E	104	
CN07	CN07	Romania	45.1380N	26.5450E	750	
Coachella	COA	California,U.S.A.	32.8635N	115.1230W	35	From 1973-04-16
Coal Bank Pass, Durango	S21A	Colorado,U.S.A.	37.6620N	107.7917W	2723	From 2007-12-05 to 2009-11-09
Coamo	CCA	Puerto Rico	18.0696N	66.3263W	269	From 1977-02-15 to 1999-08-25
Coast Env Seattle	KDKW	Washington,U.S.A.	47.5950N	122.3335W	4	
Coatepeque	COAS	El Salvador	13.8867N	89.5719W	1260	
CO. Balc‘‡n	BS01	Bolivia	20.7323S	65.1945W	2897	From 2012-08-06
Cobalt	G13A	Idaho,U.S.A.	45.0931N	114.2329W	1538	From 2006-11-14 to 2009-06-04
Cobano	CAO	Costa Rica	9.7012N	85.1033W	263	From 1984-11-01
Cobar Meteorology Station	CMSA	New South Wales,Australia	31.5375S	145.6916E	220	From 2001-06-26
Cobar Meteorology Station	CMS	New South Wales,Australia	31.4867S	145.8283E	255	From 1982-12-06 to 1999-08-25
Cobb Dam	CDZ	South Island,New Zealand	41.0938S	172.7132E	780	From 1989-11-01 to 1990-04-30
Cobblestone Ranch, Loring	A20A	Montana,U.S.A.	48.8799N	107.9257W	868	From 2008-09-11 to 2010-07-20
Cobb Mountain	GCMM	California,U.S.A.	38.8058N	122.7550W	1286	From 1975-04-23
Cobb River	COB	South Island,New Zealand	41.0861S	172.7340E	213	From 1949-07-19 to 1990-02-25
Cobleskill	CONY	New York,U.S.A.	42.6658N	74.4688W	468	From 2001-07-14 to 2006-02-28
Cobquecura	COBQ	Bio-Bio,Chile	36.1077S	72.7440W	100	
Cobquecura	COCH	Bio-Bio,Chile	36.1313S	72.7883W	23	
Cochabamba	CCH	Bolivia	17.3842S	66.1342W	2650	
Cochancay	COHC	Ecuador	2.4662S	79.2546W	33	From 2012-05-23
Cochiti	COH	New Mexico,U.S.A.	35.5802N	106.3050W	1646	From 1976-01-01
Cochrane	CHRN	Chile	47.2493S	72.5903W	198	From 2009-09-07
Coco Island	ICCO	Costa Rica,Costa Rica	5.5436N	87.0567W	10	From 2007-09-23
Cocos Island	CCK	Cocos Islands,Australia	12.2000S	96.9000E		
Codavolpe	ECDV	Sicily,Italy	37.7010N	15.1620E	230	From 1994-10-01
Codazzi, Cesar	CCODA	Colombia	9.9350N	73.4430W	108	From 2012-03-08
Codolo	CODM	Italy	44.3908N	9.8500E	580	From 1999-03-01
Codrington	CPB	Barbuda,Antigua and Barbuda	17.6400N	61.8260W	5	From 1980-07-09
Codroy Newfoundland	CODG	Newfoundland,Canada	47.8406N	59.2535W	50	From 2005-10-06
Cody	CZ-	Nebraska,U.S.A.	42.8750N	101.2417W	975	
Cody	CZ-NB	Nebraska,U.S.A.	42.8750N	101.2417W	975	
Coen	COEN	Queensland,Australia	13.9574S	143.1749E	285	From 2002-10-03
Coe Ranch	COE	California,U.S.A.	37.2590N	121.6735W	329	From 1967-10-03 to 2011-07-23
Coe Ranch	CCOM	California,U.S.A.	37.2590N	121.6735W	329	From 1967-10-03 to 2011-07-23
Coe Ranch Number 3	CCOB	California,U.S.A.	37.2590N	121.6731W	371	
Cofrada	COFN	Nicaragua	12.1500N	86.1100W	50	
Cogollos-Vega	ECOG	Spain	37.2772N	3.5664W	1176	From 1990-06-13
Cohagen	D22A	Montana,U.S.A.	47.1498N	106.1797W	791	From 2008-09-06 to 2010-07-16
Cohasset Ridge	OCHM	California,U.S.A.	39.8758N	121.7660W	530	From 1976-12-17
Coimbra	COI	Portugal	40.2080N	8.4124W	140	
Coimbra	PCOI	Portugal	40.1585N	8.4662W	174	
Coker Ranch, Turkey	X30A	Texas,U.S.A.	34.4461N	100.8740W	698	From 2009-03-12 to 2011-02-11
Cokeville	L17A	Wyoming,U.S.A.	42.0995N	110.8727W	1996	From 2007-11-04 to 2009-05-06
Colby Mountain	LCMM	California,U.S.A.	40.1465N	121.5210W	1829	
Colchester	COV	Vermont,U.S.A.	44.5777N	73.1458W	85	From 1976-11-01 to 1980-08-31
Colchester	TCR	England,United Kingdom	51.8349N	0.9125E	40	From 1989-01-01
Cold Bay	CBY	Alaska,U.S.A.	55.1887N	162.7040W	20	From 1993-06-01
Cold Bay	CBA	Alaska,U.S.A.	55.1750N	162.7330W		
col de Turini - Moulinet	TURF	France	43.9749N	7.3919E	1640	
Col de Zad	CZD	Morocco	33.0330N	5.0430W	2356	From 1992-01-01
Coldfoot	COLD	Alaska,U.S.A.	67.2274N	150.2013W	377	From 2004-05-19
Cold Spring	COSP	New York,U.S.A.	41.4407N	73.9282W	128	
Cold Spring Mountain	GCSM	California,U.S.A.	39.0228N	123.5212W	695	
Cold Spring River	CSRY	New York,U.S.A.	43.9692N	74.1750W		From 1983-10-01 to 1986-10-31
Cold Springs	KCSM	California,U.S.A.	40.5377N	123.5130W	1640	From 1992-08-13
Cold Springs	CSPT	Tennessee,U.S.A.	35.7610N	83.8240W	335	From 1983-10-28
Col du Perthus	PERF	Languedoc-Rousillon,France	42.4856N	2.8742E	490	From 1989-01-01 to 1999-10-06
Coldwater Canyon	CWCR	California,U.S.A.	37.4948N	118.3060W	2000	From 1984-08-10 to 2002-10-10
Coldwater, Mount Saint Helens	B201	Washington,U.S.A.	46.3033N	122.2648W	752	
Coleburn Distillery	MCD	Scotland,United Kingdom	57.5828N	3.2542W	280	From 1981-06-01
Colegio 24 de Mayo	C24MA	Ecuador	0.1769S	78.4738W	2836	From 2010-07-02
Colegio Aleman	DSCH	Santiago,Chile	33.3985S	70.5688W	699	
Colegio Gonzalo Zaldumbide - Quito	ZALD	Ecuador	0.2666S	78.5412W	2870	
Coleman	CLM	Alberta,Canada	49.6350N	114.5200W		
Coleman	232A	Texas,U.S.A.	31.8880N	99.6469W	621	From 2009-03-07 to 2011-02-17
Coleman	I33A	South Dakota,U.S.A.	44.0475N	96.7989W	509	From 2010-08-01 to 2012-06-06
Colesburg	K40A	Iowa,U.S.A.	42.6999N	91.1383W	274	From 2011-06-10 to 2013-06-01
Coleville	R06C	California,U.S.A.	38.5226N	119.4509W	1698	From 2005-08-04 to 2008-03-15
Coley Creek	SCCK	South Carolina,U.S.A.	35.0228N	82.9915W	701	
Coleyville	CVJ	Jamaica	18.2262N	77.5348W	985	
Colfax	CF-	Wisconsin,U.S.A.	45.0942N	91.7664W	366	From 1962-11-04 to 1962-12-12
Colfax	CF-WS	Wisconsin,U.S.A.	45.0942N	91.7664W	366	From 1962-11-04 to 1962-12-12
Colider	CLDB	Mato Grosso,Brazil	10.8732S	55.7965W	298	From 2013-04-15 to 2099-01-01
Coligny	CGY	Transvaal,South Africa	26.3483S	26.3750E		From 1986-01-01 to 1999-01-31
Colima	CMX	Colima,Mexico	19.1808N	103.6910W	779	From 1986-01-01
Colima	COLM	Colima,Mexico	19.1808N	103.6910W	779	From 1986-01-01
Colinas	COLS	El Salvador	13.6652N	89.2987W	1105	
Collangettes	COLF	Auvergne,France	45.5178N	3.6945E	740	
Col Las Americas	LACH	Metropolitana,Chile	33.4518S	70.5308W	690	From 2006-04-01
Colle Ameno	AMEN	Italy	43.6088N	13.4444E	48	From 2012-09-27
Colle Belvedere (Rocca di Mezzo)	RM24	Italy	42.1710N	13.4724E	1565	From 2009-04-22 to 2009-09-01
Collebrencioni	RM07	Italy	42.4050N	13.4065E	1133	From 2009-04-06 to 2009-08-31
College	COLA	Alaska,U.S.A.	64.8738N	147.8511W	74	From 1996-01-01
College--Fairbanks	CMO	Alaska,U.S.A.	64.8600N	147.8350W	183	From 1949-01-01 to 1977-12-31
College Fiord	CFI	Alaska,U.S.A.	61.1827N	147.7670W	3	From 1974-07-31
College of the Siskiyous	LCSM	California,U.S.A.	41.4162N	122.3925W	1125	
College of Wooster	COWO	Ohio,U.S.A.	40.8158N	81.9378W	328	
College Outpost	COL	Alaska,U.S.A.	64.9000N	147.7933W	320	
Collenoveri	RM11	Italy	42.5382N	13.2772E	931	From 2009-04-07 to 2010-02-15
Collepietro	T0110	Italy	42.2264N	13.7791E	915	From 2009-09-02
Colle Roio	RM02	Italy	42.3430N	13.3283E	787	From 2009-04-06 to 2009-06-17
Colle San Martino	SMB1	Italy	41.3968N	14.7184E	819	
Colliano	COL3	Italy	40.6871N	15.3304E	1026	
Colliano	CLLN	Italy	40.7177N	15.3180E	1207	From 2004-09-23
Colli (Barete)	RM05	Italy	42.4387N	13.2588E	890	From 2009-04-06 to 2009-09-01
Collier Ranch, Chico	Z34A	Texas,U.S.A.	33.3712N	97.9158W	341	From 2009-11-10 to 2011-09-10
Collingwood	CLWO	Ontario,Canada	44.4491N	80.3013W	485	From 2009-05-20
Collinsville	HGA	Alabama,U.S.A.	34.2602N	85.8464W	384	
Collinsville	CVLQ	Queensland,Australia	20.5900S	147.6090E	102	From 1985-04-03
Collm	CLL	Sachsen,Germany	51.3077N	13.0026E	230	
Collurania	CLR	Italy	42.6667N	13.7167E		
COLO	COLO	Bolivia	19.0002S	62.0049W	396	From 1995-07-29 to 1995-08-08
Cologne	CLG	Nordrhein-Westfalen,Germany	50.9283N	6.9350E	0	
Colombo	COC	Sri Lanka	6.9000N	79.8667E	7	
Colome	CO-SD	South Dakota,U.S.A.	43.2867N	99.6703W	640	From 1962-07-06 to 1962-07-11

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Colome	CO-	South Dakota,U.S.A.	43.2867N	99.6703W	640	From 1962-07-06 to 1962-07-11
Colon	ECO	Panama	9.3638N	79.6937W	468	From 1990-10-17
Colon	ECO2	Panama	9.3218N	79.6837W	450	
Colon	COLN	O'Higgins,Chile	34.0667S	70.4567W	2160	
Colonesti	CLI	Romania	46.5500N	27.2833E	502	
Colonia	COLC	Costa Rica	10.6652N	85.2037W	445	From 2000-01-01
Colonia del Valle	CVM	Mexico D.F.,Mexico	19.3821N	99.1785W		
Colonia Sabana	CSB	Puerto Rico	18.2897N	66.1567W	470	From 1975-07-30
Colony High School	CHSA	Alaska,U.S.A.	61.6080N	149.2120W	112	
Colorado	COCR	Costa Rica	10.5527N	83.6708W	10	
Colorado Mnmt	CMCO	Colorado,U.S.A.	39.1026N	108.7380W	1756	
Coloredo	COLI	Italy	46.1333N	13.3783E	250	From 1977-05-06
Col San Antonio	HUMP	Puerto Rico	18.1421N	65.8498W	79	
Colson Canyon	SCCM	California,U.S.A.	34.9413N	120.1720W	610	
Colson Canyon	BCC	California,U.S.A.	34.9397N	120.1720W	610	From 1969-11-24 to 2005-08-08
Colter Canyon	COLW	Wyoming,U.S.A.	43.9623N	110.6960W	2079	From 1986-01-01
Colton High School	COLT	Oregon,U.S.A.	45.1703N	122.4369W	213	
Coltrane Farms	V57A	North Carolina,U.S.A.	35.8875N	79.7758W	223	From 2013-03-13
Columbia	CSC	South Carolina,U.S.A.	34.0000N	81.0333W	94	From 1931-01-01 to 1973-09-30
Columbia	COTN	Tennessee,U.S.A.	35.7842N	86.9707W	320	
Columbia College	CMB	California,U.S.A.	38.0346N	120.3865W	697	From 1986-11-06
Columbiana	Z49A	Alabama,U.S.A.	33.1942N	86.5311W	134	From 2011-12-19 to 2013-08-06
Columbo, Santorini Isl.	CMBO	Greece	36.4709N	25.4056E	108	From 2011-02-02
Columbus	CUN	Nebraska,U.S.A.	41.4789N	97.3800W	467	
Columbus	COLR	Nevada,U.S.A.	38.1447N	118.0542W	1835	
Columbus	J42A	Wisconsin,U.S.A.	43.3179N	89.1234W	313	From 2011-10-15 to 2013-06-11
Columbus Grove	N49A	Ohio,U.S.A.	40.9220N	84.1825W	225	From 2012-09-03
Col Varnada, Mel (BL)	VARN	Italy	45.9933N	12.1047E	870	From 2006-11-16
Colville	CLW	Washington,U.S.A.	48.5933N	117.8820W	585	From 1975-06-01 to 1976-11-30
Colville Lake	CLVN	Northwest Territories,Canada	67.0390N	126.0779W	263	From 2010-07-18
Colville Reservation, Omak	B08A	Washington,U.S.A.	48.3584N	119.3332W	696	From 2006-11-07 to 2008-11-12
Comanche National Grassland Park, Kim	T26A	Colorado,U.S.A.	37.1747N	103.5933W	1830	From 2009-01-10 to 2010-11-07
Combarbala	CMCH	Coquimbo,Chile	31.1735S	71.0013W	906	
Combarbal˜¡	CO02	Coquimbo	31.2037S	71.0002W	1190	From 2013-06-07
Combe Brimond	CBBF	Provence-Cote d'Azur,France	44.5965N	6.8535E	1980	From 1989-11-06
Combe Farm	DCO	England,United Kingdom	50.3200N	3.8724W	410	From 1982-01-01
Combovin	OG16	Rhone-Alpes,France	44.8500N	5.0975E	775	From 1990-04-05
Comb Ridge	CRTN	Tennessee,U.S.A.	36.1998N	83.8407W	488	
Comisariato del Ejercito Sur - Quito	COSF	Ecuador	0.2364S	78.5256W	2854	
Comitan	CCIG	Chiapas,Mexico	16.2820N	92.1370W	1500	
Comitan	COM	Chiapas,Mexico	16.2533N	92.1281W	1528	
Comitan 2	COM2	Chiapas,Mexico	16.2417N	92.1372W		
Commelle	OG08	Rhone-Alpes,France	45.4482N	5.2397E	550	From 1989-02-13
Complesso Universitario Monte Sant'Angelo	NAPI	Italy	40.8400N	14.1800E	120	
Compton	COOC	California,U.S.A.	33.8960N	118.2164W	-31	
Concepcio@15n	U14B	Concepcion,Chile	36.8579S	73.0798W	27	
Concepcion	CONN	Nicaragua	11.5642N	85.6257W	250	
Concepcion	CON	Concepcion,Chile	36.8281S	73.0450W	15	
Concepcion	CONC	Concepcion,Chile	36.8295S	73.0353W	60	
Concesio	CNCS	Italy	45.6060N	10.2170E	126	From 2006-05-03
Conchagua	CNCH	El Salvador	13.2763N	87.8337W	1056	
Con Chiusa Politi	EPOL	Sicily,Italy	37.8625N	14.9915E	830	From 1994-10-01
Con Con	CCCH	Valparaiso,Chile	32.9228S	71.5158W	45	
Concord--Diablo Valley College	CNC	California,U.S.A.	37.9667N	122.0720W	36	From 1960-09-12 to 1966-12-06
Concordia	CNK	Kansas,U.S.A.	39.5080N	97.7130W	465	From 1978-04-18 to 2001-07-15
Concordia, Antarctica	CCD	East Antarctica	75.1065S	123.3050E	3240	From 2007-01-01
Concrete	CE-WA	Washington,U.S.A.	48.5225N	121.6872W	274	From 1962-10-15 to 1962-10-27
Concrete	CE-	Washington,U.S.A.	48.5225N	121.6872W	274	From 1962-10-15 to 1962-10-27
Con Cuong	CCVB	Vietnam	19.0485N	104.8768E	30	From 2008-01-01
Conde	G31A	South Dakota,U.S.A.	45.2254N	98.2083W	393	From 2010-09-02 to 2012-06-27
Condor	PP03	Peru	13.5412S	75.5242W	1400	
Cone Mtn., Paradox Valley	PV21	Colorado,U.S.A.	38.5612N	108.9749W	2235	
Cone Peak	CPK	Hawaii,U.S.A.	19.3950N	155.3280W	1038	From 1967-11-01
Congro	PCNG	Azores,Portugal	37.7670N	25.3960W	578	From 2003-01-01
Conil	CNIL	Spain	36.3700N	6.0545W	63	
Connealy Angus Ranch, Whitman	L28A	Nebraska,U.S.A.	42.0073N	101.5196W	1155	From 2009-06-05 to 2011-04-09
Connel	CNL	Washington,U.S.A.	46.6530N	118.9170W	293	From 1970-06-01 to 1975-02-28
Connelly Farm, Tescott	Q33A	Kansas,U.S.A.	38.9982N	97.8327W	422	From 2009-10-27 to 2011-08-24
Conner	APYP	Luzon,Philippines	17.8620N	121.2430E	50	
Conniff Cattle Co., Rinco	122A	New Mexico,U.S.A.	32.6995N	107.0005W	1333	From 2008-02-01 to 2009-12-09
Co Noi	MUVB	Vietnam	21.3432N	104.1085E	485	
Cono NE Rev Volc	CONE	Ecuador	0.0699S	77.6425W	2685	From 2003-03-08
Conover	COWI	Wisconsin,U.S.A.	46.1003N	89.1369W	523	
Conrad Observatory	CSNA	Austria	47.9282N	15.8588E	1039	From 2006-12-13
Conrad Observatory	CONA	Austria	47.9282N	15.8618E	1046	
Constanta	CTISU	Romania	44.1840N	28.6491E	74	From 2012-10-31
CONSTANTA	CCF	Romania	44.1434N	28.6730E	35	From 2007-08-16
Constanta Port	TSCT	Romania	44.1608N	28.6572E	68	From 2013-05-10
Constantine	CCO1	England,United Kingdom	50.1357N	5.1957W	168	From 1981-01-01
Constantine	CNS	Algeria	36.3700N	6.6125E	670	
Constitucion	CONS	Maule,Chile	35.3229S	72.4131W	110	
Constitucion	CTCH	Maule,Chile	35.3308S	72.4119W	10	From 2004-09-08
Contact Creek	CNTC	Alaska,U.S.A.	58.2645N	155.8837W	1158	From 1996-08-01
Contao	CNTO	Chile	41.8022S	72.7182W	10	From 2008-05-06
Contigliano	LCNT	Italy	42.4114N	12.7680E	431	From 2007-04-04
Contrada Cassone	ECCS	Sicily,Italy	37.7105N	15.0643E	1500	From 1994-10-01
Contwyoto Lake 2	COWN	Northwest Territories,Canada	65.2679N	111.1860W	513	
Convento San Francisco - Quito	SANF	Ecuador	0.2193S	78.5159W	2882	
Convict Lake	MCVM	California,U.S.A.	37.5900N	118.8291W	2542	
Convict Lake	MCMM	California,U.S.A.	37.6094N	118.8736W	2219	
Conway	CW-AR	Arkansas,U.S.A.	35.1356N	91.9778W	152	From 1962-05-09 to 1962-06-09
Conway	CW-	Arkansas,U.S.A.	35.1356N	91.9778W	152	From 1962-05-09 to 1962-06-09
Cook Canyon	CKC	California,U.S.A.	34.1363N	117.1750W	550	
Cookes Peak, Deming	121A	New Mexico,U.S.A.	32.5324N	107.7851W	1652	From 2008-02-12
Cook Lake	COKN	Northwest Territories,Canada	63.2702N	108.7623W	357	From 2008-07-10
Cook Peak	WCOM	California,U.S.A.	35.6225N	118.4380W	1609	
Cook Ranch	COK	California,U.S.A.	32.8492N	115.7270W	-15	From 1973-04-16
Cooks Store, Concordia	Q38A	Missouri,U.S.A.	38.9609N	93.6182W	228	From 2010-12-03 to 2012-10-20
Coolgardie	COOL	Western Australia,Australia	30.8838S	121.1450E	500	From 1988-08-01 to 2006-05-29
Coonabarabran	EPSO	New South Wales,Australia	31.2601S	149.2209E	563	From 2009-12-01
Cooney Tunnel	COO	New South Wales,Australia	30.5778S	151.8917E	653	From 1974-08-17 to 1999-08-25
Coon Peak	CPU	Utah,U.S.A.	40.6731N	112.1900W	2228	From 1974-11-01
Cooper Cave	CPCT	Tennessee,U.S.A.	35.4498N	84.5218W	275	
Cooper Hill	PQ0	Maine,U.S.A.	44.9863N	67.4674W	219	
Cooper Landing	O22K	Alaska,U.S.A.	60.4814N	149.7241W	140	From 2014-05-21
Cooper Mountain	CMTX	Texas,U.S.A.	33.0105N	100.8420W	811	
Coopers Lake	CKM	Montana,U.S.A.	47.0666N	112.9100W	1353	From 1974-08-02 to 1976-10-31
Cooperstown	K59A	New York,U.S.A.	42.7750N	74.8525W	570	From 2013-09-15
Copaceanca	COPA	Romania	44.1343N	25.2172E	114	From 2012-11-07
Copaltepe	COPN	Nicaragua	12.1800N	86.5917W	150	
Copenhagen	COP	Denmark	55.6853N	12.4325E	13	From 1962-01-01
Copete-Rev Volc	ECOPE	Ecuador	0.1061S	77.6206W	2350	From 2003-02-17 to 2003-09-01
Copeton	COPM	New South Wales,Australia	29.9178S	150.9347E	571	
Copiapo	CPCH	Atacama,Chile	27.3580S	70.3530W	371	
Copiapo	CPP	Atacama,Chile	27.3542S	70.3511W	384	
Copiapo@15	GO03	Atacama,Chile	27.5937S	70.2347W	743	
Coppermine	CMC	Northwest Territories,Canada	67.8333N	115.0833W	31	From 1963-03-15 to 1969-12-06
Copper Mountain	CPM	California,U.S.A.	34.1540N	116.1970W	937	
Copperopolis	MCUM	California,U.S.A.	37.9732N	120.6195W	309	From 1972-04-19 to 2011-11-26
Copperopolis Broadband	MCUB	California,U.S.A.	37.9754N	120.6202W	408	
Coppito (AQ)	T0109	Italy	42.3600N	13.3382E	754	From 2009-04-08 to 2009-04-09
Coquitlam Dam	COQB	British Columbia,Canada	49.3542N	122.7747W	161	
Corbin	CNV	Virginia,U.S.A.	38.2050N	77.3733W	70	From 1978-07-01
Corbin Fredericksburg Observatory	CBN	Virginia,U.S.A.	38.2046N	77.3732W	70	From 1971-01-01
Corcelles	OG35	Rhone-Alpes,France	46.0445N	5.5715E	900	From 2008-04-04
Corcovado	CHP2	Peru	4.6161S	80.8131W	200	From 1979-12-01
Cord	V42A	Arkansas,U.S.A.	35.8060N	91.3900W	134	From 2011-05-13 to 2013-02-15
Cordova	CDI	Alaska,U.S.A.	60.4967N	145.4933W	65	From 1964-04-02 to 1964-05-08
Cordova	CVA	Alaska,U.S.A.	60.5465N	145.7490W	90	From 1971-08-31

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Cordova Ski Area	EYAK	Alaska,U.S.A.	60.5493N	145.7479W	146	
Cordoza Dairy	HCZM	California,U.S.A.	36.9090N	121.8000W	30	From 1975-11-13
Corfu	CRF	Washington,U.S.A.	46.8250N	119.3870W	189	From 1970-07-01
Corinaldo	COR1	Italy	43.6318N	13.0003E	237	From 2011-04-13
Corinaldo	CRN	Italy	43.6308N	12.9978E	271	
Corinaldo (AN)	AD04	Italy	43.6440N	13.0398E	227	From 2010-03-31
Cork	CORK	Ireland	51.8833N	8.4667W		From 1914-01-01 to 1942-12-31
Corleone	CORL	Sicily,Italy	37.8943N	13.3038E	660	From 2006-04-19
Corleto Perticara	COPE	Italy	40.3834N	16.0692E	800	
Corlu	CRLT	Turkey	41.1290N	27.7360E	230	From 2002-01-01
Corn Cob Canyon	HCOM	California,U.S.A.	36.8875N	121.7080W	134	From 1975-11-19
Corn Creek	U11A	Nevada,U.S.A.	36.4230N	115.3835W	867	From 2006-06-20 to 2008-10-13
Corn Creek, Alamo	T11A	Nevada,U.S.A.	37.2408N	115.2202W	1402	From 2007-02-11 to 2008-09-16
Cornell	CN-	Wisconsin,U.S.A.	45.1928N	91.1281W	320	From 1962-05-10 to 1962-06-28
Cornell	CN-WS	Wisconsin,U.S.A.	45.1928N	91.1281W	320	From 1962-05-10 to 1962-06-28
Cornellia Hill	CORN	Puerto Rico	18.1635N	67.1794W	8	
Corner Brook	CBK	Newfoundland,Canada	48.9197N	57.9697W	380	
Corning	P52A	Ohio,U.S.A.	39.6337N	82.1325W	293	From 2012-07-24
Cornuda	MCOR	Italy	45.8371N	11.9887E	394	From 2010-06-29
Cornuda	CRND	Italy	45.8349N	12.0786E	159	From 2011-11-04
Cornudas Mountain, Dell City	224A	Texas,U.S.A.	32.0760N	105.5226W	1487	From 2008-02-28 to 2010-01-16
Cornudas Mountains	MNTX	Texas,U.S.A.	31.6985N	105.3821W	404	From 2004-04-01
Coroa da Mata	PMAT	Azores,Portugal	37.8160N	25.4710W	240	From 2003-01-01
Coron	BUSP	Palawan,Philippines	12.0030N	120.1990E	66	
Corona	CRNC	California,U.S.A.	33.8757N	117.5611W	135	
Corona Quarry	COQ	California,U.S.A.	33.8605N	117.5097W	205	From 1976-01-01
Coronation Park	CORO	Tasmania,Australia	41.4522S	147.1450E	30	From 1996-01-01
Coronel Fontana	CFA	San Juan,Argentina	31.6048S	68.2375W	621	
Coronel Fontana	CFAA	San Juan,Argentina	31.6048S	68.2375W	577	From 2004-12-22
Corral Hollow	CSTL	California,U.S.A.	37.6392N	121.4980W	205	From 1981-02-18
Correggio	CODE	Italy	44.7980N	10.7150E	27	
Correggio Bag	ZAVE	Italy	44.7542N	10.7030E	33	
Correggio Fan	FANE	Italy	44.7670N	10.7362E	33	
Correggio Man	MAN1	Italy	44.7822N	10.7855E	29	
Correggio (RE)	T0815	Italy	44.8731N	11.7198E	1	From 2012-05-20 to 2012-09-18
Correggio--Silva	SILE	Italy	44.7550N	10.7970E	33	
Corrie	PCOU	Scotland,United Kingdom	55.9880N	4.1002W	267	From 1990-01-01 to 1991-01-01
Corte	CORF	Corse,France	42.2980N	9.1530E	475	From 2005-06-22
Cortez Mining, Crescent City	O10A	Nevada,U.S.A.	40.2917N	116.4999W	1470	From 2006-05-16 to 2008-08-15
Corum	CORM	Turkey	40.1785N	34.6302E	1292	From 2004-12-15
Corum	CTKT	Turkey	40.6231N	34.7897E	1650	From 2002-03-01
Corum-Alaca	COAL	Turkey	40.2548N	34.9860E	1154	From 2010-11-30
˙orum-Karg¯–	KAGI	Turkey	41.1384N	34.4782E	448	From 2013-02-28
Corum_Osmancik	CTAK	Turkey	40.6478N	34.7914E	1775	From 2011-05-31
Corvallis	COR	Oregon,U.S.A.	44.5857N	123.3030W	121	From 1950-12-01
Cosiguina	COS	Nicaragua	12.9580N	87.5752W	500	From 1975-01-01
Cosiguina Volcano	CSGN	Nicaragua	12.9763N	87.5588W	746	From 2012-01-01
Coso Basin North	CBHM	California,U.S.A.	35.9882N	117.7500W	890	From 1975-09-26
Coso Springs S	WCSM	California,U.S.A.	36.0263N	117.7670W	1143	From 1975-09-26
Coso Springs South	CSSM	California,U.S.A.	36.0263N	117.7670W	1143	From 1975-09-26
Costa Raja	CRJA	Sicily,Italy	37.8016N	13.0043E	560	From 2000-07-01
Cotabato	CTB	Mindanao,Philippines	7.2000N	124.2000E	50	
Cotabato--PC Hill	CTBH	Mindanao,Philippines	7.2210N	124.2460E	50	
Cotacachi	COTA	Ecuador	0.3350N	78.3378W	4020	From 1988-07-22
Cotacachi (Casa del Agua)	ACOT	Ecuador	0.2949N	78.2745W	2482	From 2012-03-29
Cotillion Park	DCA3	Alberta,Canada	56.1665N	119.6977W	284	
Cotoan	CTCR	Costa Rica	8.8962N	82.7593W	1620	From 1989-01-01
Cotopaxi 1	VC1	Ecuador	0.6420S	78.4030W	4103	From 1988-07-08
Cotopaxi Volc	COV1	Ecuador	0.6621S	78.3437W	4979	From 2001-12-15
Cotopaxi Volcano	BMOR	Ecuador	0.7308S	78.4588W	4337	From 2007-07-01
Cotopaxi Volcano	BVC2	Ecuador	0.6575S	78.4118W	4408	From 2007-07-01
Cotopaxi Volcano	BNAS	Ecuador	0.6713S	78.4805W	3919	From 2007-07-01
Cotopaxi Volcano	BREF	Ecuador	0.6697S	78.4405W	4859	From 2007-07-01
Cotopaxi Volcano	BTAM	Ecuador	0.6750S	78.3968W	4292	From 2007-07-01
Cotopaxi Volc (N)	PITA	Ecuador	0.5585S	78.4326W	3610	From 2001-12-03
Cotopaxi Vol south	MOV1	Ecuador	0.7132S	78.4405W	4782	From 2002-01-11
Cotton	D37A	Minnesota,U.S.A.	47.1581N	92.4262W	413	From 2010-08-29 to 2012-08-15
Cottongarden Point	CGPV	Virgin Islands	17.7635N	64.5842W	40	
Cotton Hill	PSDMB	Dominica	15.5850N	61.4570W	40	
Cottonwood	COTR	Nevada,U.S.A.	38.6417N	118.7718W	1890	
Cottonwood Avenue, Hayward	C055	California,U.S.A.	37.6574N	122.1104W	11	
Cottonwood Creek, Lone Pine	CWC	California,U.S.A.	36.4399N	118.0802W	1595	From 1965-10-15
Cottonwood Mountains	CTW	California,U.S.A.	33.6773N	115.8721W	504	From 1977-08-24
Cottonwood Point	CWPT	Missouri,U.S.A.	36.0091N	89.6264W	76	
CO. Tuti	BS10	Bolivia	17.4580S	65.8583W	4161	From 2011-11-09
County Road 4760 near Route FM1970, Timpson	ETX07	Texas,U.S.A.	31.8965N	94.4708W	107	
County Road 4772, Timpson	ETX01	Texas,U.S.A.	31.8747N	94.4278W	111	
Cournillens	SCOU	Switzerland	46.8540N	7.1037E	600	From 2008-04-16
Court-Saint-Etienne	BCES	Belgium	50.6061N	4.5767E	167	From 2010-07-13
Covasna	CVO	Romania	45.8222N	26.1739E	635	From 1982-09-01
Cove	G09A	Oregon,U.S.A.	45.2781N	117.7802W	1027	From 2006-08-11 to 2008-07-17
COVE	COVE	Costa Rica	10.7195N	84.4019W	124	
Cove Fort	CFU	Utah,U.S.A.	38.6189N	112.5390W	2012	
Cove Ranch, Picabo	J13A	Idaho,U.S.A.	43.3979N	114.1742W	1552	From 2006-12-09 to 2009-06-02
Covington	CVTN	Tennessee,U.S.A.	35.5415N	89.6435W	101	
Covington	O49A	Ohio,U.S.A.	40.1880N	84.3353W	292	From 2012-06-21
Cowboy Ranch, Jiggs	O11A	Nevada,U.S.A.	40.1313N	115.6570W	1948	From 2006-05-17 to 2008-08-12
Cow Camps Rge	CCRT	Tennessee,U.S.A.	35.4660N	84.0540W	940	From 1983-11-06
Cow Castle Creek	COW	South Carolina,U.S.A.	33.3817N	80.6993W	60	From 1977-10-23
Cowichan Lake Research St	CLRS	British Columbia	48.8203N	124.1309W	174	From 2014-09-11
Cowlitz River	CWZ	Washington,U.S.A.	46.4910N	122.0120W	305	
Cow Mountain	GCWM	California,U.S.A.	39.1308N	123.0760W	1089	
Coxcomb Mountains 2	CO2	California,U.S.A.	33.8472N	115.3447W	276	
Coxim-MS Brazil	COXM	Mato Grosso,Brazil	18.5328S	54.8183W	324	From 2011-09-26
Cox Ranch, Sanderson	528A	Texas,U.S.A.	30.1615N	102.7880W	1183	From 2008-03-18 to 2010-02-11
Coxs Mills	Q54A	West Virginia,U.S.A.	38.9836N	80.8338W	254	From 2013-01-28
Coyhaique	COYC	Patagonia,Argentina	45.5723S	72.0813W	235	From 2004-12-20
Coyote D'meter	CYD1	California,U.S.A.	37.5629N	122.0967W	-23	
Coyote Hills	LT8	California,U.S.A.	37.5590N	122.0940W	38	From 1966-12-15 to 1975-04-29
Coyote Hills	CYH	California,U.S.A.	37.5590N	122.0940W	38	From 1966-12-15 to 1975-04-29
Coyote Hills	CCYM	California,U.S.A.	37.5517N	122.0910W	67	From 1975-05-01
Coyote Hollow	CHOI	Idaho,U.S.A.	43.3125N	111.2130W	2103	From 1986-01-01
Coyote Mountain	COY	California,U.S.A.	33.3640N	116.3110W	232	From 1976-01-01 to 2008-06-11
Coyotepe	CYN	Nicaragua	11.9958N	86.0987W	345	From 2000-04-01
Coyote Point	JCPM	California,U.S.A.	37.5882N	122.3220W	14	
Cozia	COZ	Romania	45.3205N	24.3425E	1610	From 1982-09-01
CP-1	CPX	Nevada,U.S.A.	36.9300N	116.0550W	1285	From 1961-01-01 to 1991-01-14
CP-1	CPY	Nevada,U.S.A.	36.9319N	116.0559W	1304	From 1991-01-14 to 2002-10-10
CP-17	CPN	Nevada,U.S.A.	37.1438N	116.2710W	1759	From 1965-01-01 to 1970-12-31
CRAAG	ESS	Algeria	36.0000N	3.1000E	400	
Craco	CRAC	Italy	40.3650N	16.4350E	384	From 2006-02-22
Crafton Hills	CFT	California,U.S.A.	34.0352N	117.1110W	671	From 1975-01-01
Craig	CRAG	Alaska,U.S.A.	55.4689N	133.1230W	57	
Craig	CGC	Colorado,U.S.A.	40.5233N	107.5620W	1925	From 1970-01-01 to 1972-11-30
Craig Goch	HCG	Wales,United Kingdom	52.3225N	3.6567W	511	From 1980-11-01
Craigsville	CX-	West Virginia,U.S.A.	38.3231N	80.6403W	732	
Craigsville	CX-WV	West Virginia,U.S.A.	38.3231N	80.6403W	732	
CRAIOVA	CRAR	Romania	44.3250N	23.7999E	125	From 2004-06-28
CR and CF Franklin Farms, Melrose	X26A	New Mexico,U.S.A.	34.5508N	103.8103W	1393	From 2008-04-29 to 2010-03-19
Crane	KR-	Oregon,U.S.A.	43.4175N	118.5122W	1402	
Crane	KR-OR	Oregon,U.S.A.	43.4175N	118.5122W	1402	
Crater	A10	Costa Rica	10.4611N	84.7156W	830	
Crater GGP	CGGP	Ecuador	0.1765S	78.6058W	4400	From 1993-03-13
Crateri Nord Est	ECNE	Sicily,Italy	37.7653N	15.0019E	2957	From 2009-09-23
Crater Lake	VCLM	Oregon,U.S.A.	42.8785N	122.1200W	2048	
Crater Peak	CRP	Alaska,U.S.A.	61.2670N	152.1550W	1622	From 1981-08-26
Crater Peak Alternate	CPAM	Alaska,U.S.A.	61.2548N	152.1420W	1192	From 1992-10-29
Crater Peak Broadband	SPCP	Alaska,U.S.A.	61.2661N	152.1529W	1616	
Crater Peak Rim	CPKM	Alaska,U.S.A.	61.2633N	152.2330W	2017	From 1991-10-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Crater Peak Two	CP2	Alaska,U.S.A.	61.2642N	152.2420W	1981	From 1992-10-26
Craters of Moon	COMI	Idaho,U.S.A.	43.4618N	113.5940W	1890	From 1992-01-01
Crater Summit	SSV	St Vincent,Saint Vincent and the Grenadines	13.3270N	61.1930W	824	From 1979-01-16
Crawfordville	553A	Florida,U.S.A.	30.1890N	84.4317W	16	From 2012-02-07
Crazy Canyon	PCCM	California,U.S.A.	36.0898N	121.1636W	372	
Crazy Man Mountain	CZM	Washington,U.S.A.	46.4353N	122.5060W	620	From 1980-04-01
Creal Springs	CSIL	Illinois,U.S.A.	37.6319N	88.7900W	168	
Creekview Farms, Bingham Lake	I35A	Minnesota,U.S.A.	43.8565N	94.9829W	428	From 2010-07-28 to 2012-05-22
Creighton Mine,Sudbury	DSNO	Ontario,Canada	46.4715N	81.1870W	-1723	From 2006-11-09
Creighton Mine,Sudbury	SSNO	Ontario,Canada	46.4715N	81.1870W	277	From 2006-11-09
Crenshaw	X44A	Mississippi,U.S.A.	34.4998N	90.1462W	109	From 2011-05-10 to 2013-02-08
Crescent City	M01C	California,U.S.A.	41.8473N	124.1221W	38	From 2006-05-19 to 2007-11-16
Crescent Cliff	LCFM	California,U.S.A.	40.4863N	121.5240W	840	From 1976-11-12
Crested Butte, Gunnison	Q22A	Colorado,U.S.A.	38.8627N	106.9096W	2727	From 2007-12-18 to 2010-02-07
Crestline	CSL	California,U.S.A.	34.2497N	117.2780W	1490	
Crestview	450A	Florida,U.S.A.	30.8038N	86.5863W	77	From 2012-01-19
Crete	CR-NB	Nebraska,U.S.A.	40.6644N	96.8542W	442	From 1965-10-26 to 1966-10-14
Crete	CR2NB	Nebraska,U.S.A.	40.6367N	96.8483W	418	
Crete	CTN	Nebraska,U.S.A.	40.6222N	96.9483W	432	
Crete	CR-	Nebraska,U.S.A.	40.6644N	96.8542W	442	From 1965-10-26 to 1966-10-14
cr^te de Spivol - 06156, Venanson - Alpes-Maritimes,FRProvence-Alpes-Cote d'Azur	CRF	Provence-Alpes-Cote d'Azur	44.0559N	7.2366E	1357	From 2014-07-17
Creve Coeur	CCMO	Missouri,U.S.A.	38.7200N	90.4670W	152	
Crevison Peak	HCPM	California,U.S.A.	37.1945N	121.1850W	513	From 1979-11-15 to 1988-02-15
Cripan	ECRI	Spain	42.6089N	2.5100W	807	From 1986-10-01
Cripple Cowboy Ranch, Baxter Pass	P19A	Colorado,U.S.A.	39.6333N	108.9812W	2099	From 2007-08-21 to 2010-02-07
Cripps Ranch, Grass Range	D19A	Montana,U.S.A.	47.1646N	108.8800W	1047	From 2008-08-29 to 2010-06-05
CRISS	CRISS	Bolivia	19.3747S	65.9295W	3566	From 1994-05-30 to 1995-01-07
Cristalandia	CRIB	Tocantins,Brazil	10.5280S	49.0330W	305	
Criterion Ridge	CROR	Oregon,U.S.A.	44.9828N	120.9880W	1015	From 1987-08-01
Crittenden County--Downhole	CRID	Arkansas,U.S.A.	35.3020N	90.3330W	36	From 1982-03-16
Crittenden County--Surface	CRIS	Arkansas,U.S.A.	35.3020N	90.3330W	64	From 1981-12-16
Crivoux	CREF	Provence-Cote d'Azur,France	44.5495N	6.6228E	1680	From 1993-05-12
Crni Vrh	CRNS	Slovenia	46.0807N	14.2613E	689	
Crocker Grade	CRGC	California,U.S.A.	35.2422N	119.7249W	1169	From 1976-06-01
Crocket Farms Inc., Mclean	W30A	Texas,U.S.A.	35.1818N	100.5770W	870	From 2009-03-25 to 2011-02-15
Crockett	338A	Texas,U.S.A.	31.3567N	95.3106W	137	From 2010-02-18 to 2011-12-12
Croghan	DCN	Ireland	53.3439N	7.2767W	150	From 1976-11-01
Croghan	CROG	New York,U.S.A.	43.9050N	75.4125W	244	From 1977-07-27 to 1986-09-30
Cromwell	M47A	Indiana,U.S.A.	41.3594N	85.6214W	283	From 2012-09-05
Crook	LCK	England,United Kingdom	54.3595N	2.8715W	200	From 1989-01-01 to 1992-10-13
Crookston	C32A	Minnesota,U.S.A.	47.8255N	96.5281W	286	From 2010-10-23 to 2012-06-25
Crookwell	CKWL	New South Wales,Australia	34.4523S	149.4658E	910	From 2011-02-21
Cross D Ranch, Liberty	539A	Texas,U.S.A.	30.1084N	94.7236W	15	From 2010-04-13 to 2011-11-10
Cross Fire Station	CFS	South Carolina,U.S.A.	33.2787N	80.1693W	26	From 1988-05-30
Cross River	CRNY	New York,U.S.A.	41.3118N	73.5482W	293	From 1981-12-01
Crosstimbers Borehole	TUL0	Oklahoma,U.S.A.	35.9126N	95.7903W	-571	
Crossville	CS-TN	Tennessee,U.S.A.	35.8153N	85.1594W	579	From 1963-01-01 to 1963-03-21
Crossville	CS-	Tennessee,U.S.A.	35.8153N	85.1594W	579	From 1963-01-01 to 1963-03-21
Crow Canyon Rd	CCNM	California,U.S.A.	37.7915N	121.9480W	219	From 1976-02-05
Crow Canyon Road	CYC	California,U.S.A.	37.7915N	121.9480W	219	From 1976-02-05
Crowheart	J19A	Wyoming,U.S.A.	43.2649N	109.0531W	1782	From 2008-08-08 to 2010-09-12
Crowley Lake	CLKR	California,U.S.A.	37.5907N	118.8240W	2576	From 1979-11-01 to 2012-05-17
Crown Mine	CMN	Nevada,U.S.A.	40.8160N	117.5280W	1792	From 1964-01-01 to 1999-08-25
Crown Mines	CRWM	Transvaal,South Africa	26.2370S	28.0150E	1704	From 2010-02-10
Crown Point	CPI	Idaho,U.S.A.	43.8667N	116.3000W		
Crows Nest Canyon	CNCI	Idaho,U.S.A.	43.9290N	113.4530W	1914	From 1992-01-01
Crozet Islands	CRZF	Crozet Islands,France	46.4296S	51.8612E	140	From 1986-04-01
CROZET ISLANDS HYDROACOUSTIC SITE N1	H04N1	Crozet Islands,France	46.1608S	51.7792E	-1800	From 2003-10-02 to 2006-02-28
CROZET ISLANDS HYDROACOUSTIC SITE N2	H04N2	Crozet Islands,France	46.1644S	51.8025E	-1800	From 2003-10-02 to 2006-02-28
CROZET ISLANDS HYDROACOUSTIC SITE N3	H04N3	Crozet Islands,France	46.1772S	51.7832E	-1680	From 2003-10-02 to 2006-02-28
CROZET ISLANDS HYDROACOUSTIC SITE S1	H04S1	Crozet Islands,France	46.8409S	51.9130E	-1459	From 2003-10-02 to 2006-02-28
CROZET ISLANDS HYDROACOUSTIC SITE S2	H04S2	Crozet Islands,France	46.8536S	51.8935E	-1580	From 2003-10-02 to 2006-02-28
CROZET ISLANDS HYDROACOUSTIC SITE S3	H04S3	Crozet Islands,France	46.8354S	51.8870E	-1531	From 2003-10-02 to 2006-02-28
Crutchfield	CRU	Kentucky,U.S.A.	36.5950N	89.0200W	127	From 1974-07-12
CRUZ	CRUZ	Bolivia	19.1034S	66.2212W	4267	From 1994-05-30 to 1995-08-08
Cruzeiro do Sul	CZSB	Acre,Brazil	7.7299S	72.7049W	196	From 2014-07-17
Cruz Verde, Cundinamarca	CVER	Colombia	4.5213N	74.0737W	3608	From 2010-05-06
Crystal Lake	CLY	New York,U.S.A.	43.8513N	74.4490W	579	From 1971-09-01 to 1982-12-31
Crystal Lake, Glendora	XTL	California,U.S.A.	34.2960N	117.8622W	1643	
Crystal Springs Elementary School	CSEN	Washington,U.S.A.	47.8000N	122.2100W		
CS01	CS01	Romania	47.0970N	26.9260E	238	
CS02	CS02	Romania	46.9450N	26.5060E	341	
CS03	CS03	Romania	46.8050N	25.9090E	684	
CS04	CS04	Romania	46.6570N	26.0210E	1089	
CS05	CS05	Romania	46.3960N	25.8340E	673	
CS06	CS06	Romania	46.2260N	26.0980E	716	
CS07	CS07	Romania	46.0900N	25.6920E	553	
CS08	CS08	Romania	45.8450N	25.1900E	464	
Csakvar	PKSC	Hungary	47.3806N	18.4371E	200	
CSIRO Animal Health Laboratory	GEAM	Victoria,Australia	38.1530S	144.3890E	100	
CSNet OBS 1	OSC1	Cyprus	33.5000N	31.2768E	-2361	From 2014-01-01
CSNet OBS 4	OSC2	Cyprus	33.0749N	32.2669E	-1560	From 2014-01-01
Cs^‡kako	CSKK	Hungary	47.3631N	18.2605E	320	From 2009-05-08
Cu@15pira	CUPV	Venezuela	10.0570N	65.7880W	668	From 2002-10-23
Cuckoo	IP01	Virginia,U.S.A.	37.9572N	77.9112W	109	
Cucuta, Santo Domingo	CCUC3	Colombia	7.8730N	72.5070W	443	From 2005-10-20
Cuddapah	CUD	India	14.4759N	78.7661E	137	
Cudjo Caverns	CCVA	Virginia,U.S.A.	36.6030N	83.6670W	571	From 1982-10-06
Cuesta del Viento	ACDV	San Juan,Argentina	30.1708S	69.1197W	1572	
Cueva Verdes	CDLV	Canary Islands,Spain	29.1631N	13.4439W	37	
Cufi^–o, Nari^–o	CCUFI	Colombia	1.2270N	77.3460W	3813	From 2011-07-21
Cuglieri	CUG	Sardinia,Italy	40.1869N	8.5698E	445	
Cuicocha-Domo	CUIC	Ecuador	0.3040N	78.3611W	3165	From 2010-09-30
Cuicocha Este	CUSE	Ecuador	0.3053N	78.3991W	3354	From 2013-01-11
Cuicocha Oeste	CUSW	Ecuador	0.2862N	78.3508W	3027	From 2013-01-11
Cuida Lopez Mateos	AZVM	Mexico D.F.,Mexico	19.5848N	99.2830W	2409	From 2009-01-01
Cuipilapa	CUI	Costa Rica,Costa Rica	10.6577N	85.1640W	560	
Cukurca	CUKT	Turkey	37.2474N	43.6076E	1298	From 2005-10-01
Culebra	CULB	Puerto Rico	18.3260N	65.3010W	161	
Culebra	CUP	Puerto Rico	18.3350N	65.3090W	120	From 1975-07-01 to 1999-08-25
Culebra, Puerto Rico	CUPR	Puerto Rico	18.3074N	65.2825W	19	From 2011-06-01
Culiacan	CUL	Sinaloa,Mexico	24.8080N	107.3160W		
Cullowhee	W53A	North Carolina,U.S.A.	35.1696N	83.1630W	1180	From 2012-04-14
Cultus Mountains	CMW	Washington,U.S.A.	48.4237N	122.1190W	1190	
Cumana	CUM	Venezuela	10.4650N	64.1700W	24	From 1969-08-01
Cumanacoa	COAV	Venezuela	10.1580N	63.8270W	1232	
Cumbal	CMBC	Colombia	0.9408N	77.8250W	3420	From 1994-01-01
Cumberland Camp Nunavut	CMBN	Northwest Territories,Canada	65.6861N	64.4481W	289	From 2009-08-17
Cumberland Gap	CG-	Virginia,U.S.A.	36.6264N	83.2600W	396	From 1962-06-01 to 1965-07-23
Cumberland Gap	CG-VA	Virginia,U.S.A.	36.6264N	83.2600W	396	From 1962-06-01 to 1965-07-23
Cumberland Gap	CGTN	Tennessee,U.S.A.	36.5580N	83.7110W	704	From 1981-10-23 to 1982-04-03
Cumberland Plat.	CPO5	Tennessee,U.S.A.	35.6038N	85.5735W	570	
Cumberland Plateau	CPOT	Tennessee,U.S.A.	35.6038N	85.5735W	570	
Cumberland Plateau	RSCP	Tennessee,U.S.A.	35.6000N	85.5689W	581	
Cumberland Plateau	CPO	Tennessee,U.S.A.	35.5948N	85.5704W	574	From 1963-02-13 to 1999-08-25
Cumberland Plateau Observatory	CP-SO	Tennessee,U.S.A.	35.5947N	85.5706W	574	
Cumbre	CUMB	Ecuador	0.6700S	78.4300W	5820	
Cumbre, El Hierro	CCUM	Canary Islands,Spain	27.7459N	18.0301W	464	From 2011-07-01
Cummins Area School	AUCAS	South Australia,Australia	34.2600S	135.7200E	72	From 2013-08-11
Cumshewa	CWB	British Columbia,Canada	53.1581N	131.9970W	620	From 1985-09-01
Cunco	LC01	La Araucan^›a	38.8975S	71.8761W	406	From 2014-01-14
Cunda Adasi-Balikesir	CUND	Turkey	39.3361N	26.6685E	73	From 2011-04-02 to 2013-12-01
Cupa	CUPA	Ecuador	0.3665N	79.5000W	113	From 1994-08-08
Curacav^›	MT02	Metropolitana	33.2591S	71.1377W	323	From 2014-03-04
Curaglia	CUNA	Switzerland	46.6711N	8.8467E	1400	From 2009-12-02
Curarigua	CURV	Venezuela	10.0130N	69.9610W	750	From 2002-06-20
Curarrehue	GO06	Neuquen,Argentina	39.5839S	71.4720W	1250	
Curley Farm, La Sal	R19A	Utah,U.S.A.	38.2916N	109.2607W	2035	From 2007-06-24 to 2009-03-06
Currant	CU-NV	Nevada,U.S.A.	38.6772N	115.4550W	1646	From 1963-09-09 to 1964-03-09

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Currant	CU-	Nevada,U.S.A.	38.6772N	115.4550W	1646	From 1963-09-09 to 1964-03-09
Currant	CND	Nevada,U.S.A.	38.8320N	115.2900W	2292	From 1975-11-01
Currie	O12A	Nevada,U.S.A.	40.2679N	114.7454W	1743	From 2006-05-18 to 2008-09-03
Curry Mountain	PCRM	California,U.S.A.	36.0938N	120.4350W	296	From 1975-09-04
Cushendall	GCL	Northern Ireland,United Kingdom	55.0760N	6.1300W	275	From 1989-01-01
Cusmapa	CUS1	El Salvador	13.9125N	89.9463W	662	
Cusmapa	CUSS	El Salvador	13.9092N	89.9472W	678	
Cusp Creek	CCC	British Columbia,Canada	56.1233N	122.3000W		From 1967-12-01 to 1973-04-06
Cussignacco Udine	CUSI	Italy	46.0370N	13.2530E	90	
Cusua	CUSU	Ecuador	1.4428S	78.4805W	2700	
Cutbertbay	CUBY	Andaman Islands,India	12.3597N	92.5724E	14	From 2012-01-01
Cuyoaco	CUPM	Puebla,Mexico	19.6036N	97.6186W	2450	
Cuyo Island	CUYO	Palawan,Philippines	10.8500N	121.0180E	196	
Cuyupaya	BS05	Bolivia	17.0133S	66.9428W	3540	From 2011-11-08
Cuzco	CUS	Peru	13.5633S	71.8767W	3240	
Cuzco--Tambomachay	PR05	Peru	13.4780S	71.9590W	3858	
Cypress Bend	CBD	Missouri,U.S.A.	36.3170N	89.6510W	84	From 1985-06-21
CZ01	CZ01	Romania	44.8190N	26.0210E	156	
CZ03	CZ03	Romania	45.1890N	26.5790E	213	
CZ04	CZ04	Romania	44.8860N	26.5090E	97	
CZ05	CZ05	Romania	44.6770N	26.2530E	166	
CZ06	CZ06	Romania	44.7700N	26.9090E	93	
CZ07	CZ07	Romania	44.5410N	27.1330E	50	
CZ08	CZ08	Romania	44.7410N	27.2940E	66	
CZ10	CZ10	Romania	44.9860N	27.8010E	55	
CZA	CZA	Poland	53.2290N	17.0940E	169	
D01	D01	France	49.5850N	5.2670E	220	
D50	D50	France	49.4430N	6.3730E	240	
D51	D51	France	49.3120N	6.2810E	251	
D53	D53	France	49.0550N	5.9910E	332	
Dabaa	DABA	Egypt	31.0098N	28.2814E	92	
Dabaa2	DABAA	Egypt	31.0470N	28.5039E	25	
Dabajuro	DABV	Venezuela	10.9220N	70.6360W	152	From 2002-04-17
Dabeiba	DBBC	Colombia	7.0175N	76.2097W	756	
Dabeiba, Colombia	DBCC	Colombia	8.7800N	76.2100W	756	From 2008-06-01
Dabo	DSRI	Peninsular Malaysia,Malaysia	0.4793S	104.5778E	58	From 2005-01-01
Dabrowa Gornicza	DGP	Poland	50.3292N	19.2142E	275	
Daday	BALT	Turkey	41.5342N	33.3858E	1746	From 1994-06-01
Daecheong-do Republic of korea	DACB	Republic of Korea	37.8317N	124.7068E	71	From 2010-11-17
Daegu	KSDAG	Republic of Korea	35.7685N	128.8970E	263	From 2001-12-05
Daegwallycong	KSDGY	Republic of Korea	37.6904N	128.6742E	791	From 2001-12-11
Daejeon	KSTEJ	Republic of Korea	36.3681N	127.3712E	68	
Dafare	DAF	Djibouti	11.6077N	42.5292E	270	From 1976-03-01
Dagmar	DGMT	Montana,U.S.A.	48.4702N	104.1959W	646	From 2004-07-15
Dahal	DHLJ	Jordan	30.8200N	35.4020E	-80	From 1990-02-23
Dahanechah	IDAH	Iran	32.7390N	59.8680E	2277	From 2005-12-01
Dahlonega	X52A	Georgia,U.S.A.	34.6032N	83.8938W	481	From 2012-04-06
Dajia District, Taichung City	WDJ	Taiwan region	24.3478N	120.6403E	107	From 2013-01-18
Dakar	DAK	Senegal	14.6667N	17.4333W	30	
Dake	DAKH	Aomori,Japan	40.6311N	140.2725E	525	
Dakhla	HDK1	Egypt	25.5432N	29.4028E	570	From 2001-02-10
Dalandzadgad	DZD	Mongolia	43.5700N	104.4100E	1485	
Dalbeg	DLBQ	Queensland,Australia	20.1491S	147.2670E	116	From 1984-04-09
Dale	535A	Texas,U.S.A.	30.0290N	97.5711W	170	From 2009-12-16 to 2011-10-06
Dale-Ortello Valley, Anselmo	M30A	Nebraska,U.S.A.	41.5371N	99.8723W	853	From 2009-05-18 to 2011-04-10
Dalfsen	NE38	Netherlands	52.5038N	6.2592E	3	
Dalhousie	DLH	Himachal Pradesh,India	32.5417N	75.9667E	1960	
Dalia	MDAL	Morocco	35.9000N	5.4810W	30	From 2000-06-10
Dalian	DL2	Liaoning,China	38.9061N	121.6280E	62	From 1983-08-01
Dallas	J30A	South Dakota,U.S.A.	43.3248N	99.4922W	608	From 2009-09-17 to 2011-08-21
Dallas	DAL	Texas,U.S.A.	32.8461N	96.7839W	187	From 1953-12-14
Dallas	DLS	Texas,U.S.A.	32.8778N	96.7056W	169	From 1971-02-20 to 1975-12-31
Dalny	DALK	Kamchatskaya Oblast',Russia	53.0311N	158.7536E	67	From 2009-06-28
Dalselv	N1R6	Norway	66.2610N	13.9700E	85	
Dalton	DALG	Georgia,U.S.A.	34.6088N	85.0137W	457	
Dalton	DLT	California,U.S.A.	34.1700N	117.8108W	478	From 1950-07-20 to 1959-08-29
Dalton Mountain	DMMT	Montana,U.S.A.	46.8623N	112.7150W	2039	From 1987-11-19 to 1990-07-10
Dalton (NSW)	DLN	New South Wales,Australia	34.7237S	149.1788E	544	From 1961-01-01
Dalton Road	CDAL	California,U.S.A.	37.7300N	121.7280W	190	From 1980-02-01
Dalyan (Mudla)	DALT	Turkey	36.7691N	28.6371E	548	From 2004-08-17 to 2009-04-08
Dalyan (Mu¨la)	DALY	Turkey	36.8171N	28.6536E	3	From 2009-04-09
Daman	DMN	Nepal	27.6090N	85.1060E	2225	From 1980-03-27
Damascus University	DUSS	Syria	33.5110N	36.2880E	667	
Damavand	IDMV	Iran	35.5772N	52.0322E	2546	From 1996-01-01
Damavand	DAMV	Iran	35.6302N	51.9708E	2300	From 2004-01-19
Damoulianata-Kefalonia-Greece	DMLN	Greece	38.2385N	20.3734E	370	From 2014-09-01
Dampier	DAM	Western Australia,Australia	20.6667S	116.6670E		
Damshung	NING	Xizang Zizhiqu,China	30.3794N	90.9126E	4189	From 1998-08-05 to 1998-08-15
Damuels	DAVA	Austria	47.2867N	9.8803E	1602	
Dana Ranch, Cascade	D16A	Montana,U.S.A.	47.0308N	111.5492W	1427	From 2007-09-27 to 2009-07-14
Danby, Needles	DANC	California,U.S.A.	34.6375N	115.3812W	428	From 1998-09-22
Danda	WDT	Taiwan region	23.7560N	121.1330E	2550	
Dandelion	DAH	Hawaii,U.S.A.	19.3570N	155.6670W	3003	
Dane	DAN	Ontario,Canada	48.0667N	80.0167W		
Daneborg	DBG	Greenland	74.3071N	20.2193W	107	From 2010-08-11
Dangsing	DANN	Nepal	28.3500N	83.7600E	2500	From 1994-04-01
Daniels Canyon	DAU	Utah,U.S.A.	40.4125N	111.2560W	2771	From 1974-11-01
Danmarks Havn	DAG	Greenland	76.7714N	18.6547W	30	From 1972-09-14
Dannemora	DANY	New York,U.S.A.	44.8357N	73.7572W	507	From 1977-09-16 to 1982-05-13
Dannevirke	DNN	North Island,New Zealand	40.2007S	176.1085E	217	From 1932-07-01 to 1936-12-31
Dannevirke	DVHZ	North Island,New Zealand	40.2988S	176.1666E	469	From 2008-01-14
Dan Oppiter Farms, Dalhart	V27A	Texas,U.S.A.	35.7569N	102.8361W	1228	From 2009-04-14 to 2010-11-10
Danshui	NTST	Taiwan region	25.1644N	121.4492E	16	From 2008-10-15
Danville	A09A	Washington,U.S.A.	48.9752N	118.5851W	931	From 2006-09-13 to 2008-05-17
Daramalan College	AUDAR	Australian Capital Territory,Australia	35.2500S	149.1400E	575	From 2011-05-04
Daraweish	JRDJ	Jordan	30.7280N	35.6660E	1365	From 1990-04-26
Daraweish	JDRJ	Jordan	30.7280N	35.6660E	1365	From 1990-04-26
Darb Altahta	DRBT	Syria	36.8513N	39.8112E	596	From 2002-04-01
Darband	DAR1	Pakistan	34.3790N	72.8690E	671	From 2009-09-20
Darband	DBP	Pakistan	34.3760N	72.8710E	704	From 1973-08-23 to 2009-09-20
Darby	F13A	Montana,U.S.A.	45.7893N	114.3317W	1462	From 2006-10-18 to 2009-06-11
Dareh Seyedi	BDRS	Iran	33.9543N	48.8808E	2493	From 2013-09-10
Darel	DRL	Pakistan	35.7250N	73.6460E	2117	From 2007-09-01
Darende-Malatya	DARE	Turkey	38.5712N	37.4832E	1080	From 2007-07-31
Dar Kharkhour	DKH	Morocco	35.4880N	5.3608W	1237	
Dark Hollow, Roseland	S57A	Virginia,U.S.A.	37.7605N	78.9536W	264	From 2013-03-28
Darkhovein	SCNT	Iran	30.7070N	48.3901E	1	From 2010-08-11
Dar Kodiat	DKD	Morocco	30.3600N	9.1460W	345	From 2001-06-02
Darlington East Ontario	DREO	Ontario,Canada	43.8724N	78.7040W	94	From 2007-06-22
Darlington West	DRWO	Ontario,Canada	43.8719N	78.7300W	59	From 2007-06-20
Darmstadt	WBB	Hessen,Germany	49.8434N	8.6626E	240	From 2003-01-10
Darouich	DRWC	Syria	36.6211N	36.6667E	920	From 1995-08-01
Darpas	DARS	Armenia	40.8517N	44.4300E	1525	
Dartmouth	DRT	Victoria,Australia	36.5833S	147.4920E	950	From 1975-12-01
Dartmouth Bedrock	DDBM	Victoria,Australia	36.5578S	147.5115E	329	
Dartmouth Crest	DDCM	Victoria,Australia	36.5609S	147.5241E	494	
Dartmouth Digital	DTMM	Victoria,Australia	36.5293S	147.4686E	436	
Daru	DNG	Papua New Guinea	9.0885S	143.2060E	3	
Darwin	DAR	Northern Territory,Australia	12.4083S	130.8180E	6	
Darwin (Calif)	DAC	California,U.S.A.	36.2770N	117.5937W	1813	From 1960-06-01
Darwin High School	AUDHS	Northern Territories,Australia	12.4400S	130.8300E	26	From 2013-08-11
Darwin Parliament House	DPH	Northern Territory,Australia	12.4667S	130.8423E	45	From 2009-01-01
Darwin Rock Store	DRS	Northern Territory,Australia	12.4313S	130.8993E	44	From 2009-01-01
Dashabbas	IDSA	Iran	32.4828N	47.8416E	0	From 1998-01-01
Dashiqiu	XPSS	Taiwan region	26.9300N	120.1900E	0	From 2011-07-22
Dasu	KMD1	Pakistan	35.2600N	73.2300E	902	From 2012-01-01
Datca	DAT	Turkey	36.7290N	27.5778E	1100	From 2005-10-08
Datca-Mugla	DATC	Turkey	36.7592N	27.6606E	89	From 2011-04-07
Datong	TTC	Shanxi,China	40.1350N	113.2370E	1175	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Datong	NNSB	Taiwan region	24.4284N	121.3828E	1102	From 2006-03-23
Datong	NNSH	Taiwan region	24.4284N	121.3829E	1106	From 2011-01-05
Datong Township	NDT	Taiwan region	24.6025N	121.5128E	239	From 2013-01-18
Davao	DAP	Mindanao,Philippines	7.0667N	125.6000E	19	From 1972-01-01 to 1999-08-25
Davao City--Mintal	DMPH	Mindanao,Philippines	7.0830N	125.5080E	150	
Davao City (W)	DAV	Mindanao,Philippines	7.0700N	125.5790E	145	From 1964-08-24
Davao Weather Station	DWP	Mindanao,Philippines	7.1272N	125.6557E		
Davenport	DVW	Washington,U.S.A.	47.6383N	118.2260W	717	From 1975-06-01
Davenport	DPW	Washington,U.S.A.	47.8706N	118.2030W	892	From 1986-11-01
Davenport Ranch, Sheffield	429A	Texas,U.S.A.	30.6248N	101.8938W	804	From 2009-02-13 to 2010-12-11
David	DVD	Panama	8.4358N	82.4506W	20	From 1986-06-01
David-gareji	DGRG	Georgia,Georgia	41.4507N	45.3732E	690	
David Mesa, Paradox Valley	PV11	Colorado,U.S.A.	38.2989N	108.8727W	1882	
Da Vinci Academy	DAIL	Illinois,U.S.A.	41.9776N	88.3414W	647	
Davis	J33A	South Dakota,U.S.A.	43.3185N	96.9667W	400	From 2010-07-27 to 2012-05-17
Davis Peak	DPD	California,U.S.A.	35.2330N	120.7817W	488	
Davis Ranch, Arriba	P26A	Colorado,U.S.A.	39.5602N	103.3465W	1566	From 2008-12-02 to 2010-10-14
Davos	DAVON	Switzerland	46.8368N	9.7967E	2800	
Davos	DAVOS	Switzerland	46.8394N	9.7939E	2800	From 1974-09-10 to 2002-02-15
Davos/Dischmatal	DAVOX	Switzerland	46.7805N	9.8795E	1830	From 2002-07-25
Dawn	P38A	Missouri,U.S.A.	39.6248N	93.5321W	248	From 2010-11-28 to 2012-09-14
Dawson	DAWY	Yukon Territory,Canada	64.0655N	139.3910W	808	From 1992-09-30
Dawson City	DWY	Yukon Territory,Canada	64.0533N	139.4320W	346	From 1984-09-17
Dawson Falls	DFE	North Island,New Zealand	39.3257S	174.1039E	880	From 1993-12-14 to 2010-02-23
Dawson Inlet	DAWS	British Columbia,Canada	53.2340N	132.4782W	211	
Dawson Inlet, BC	DIB	British Columbia,Canada	53.2025N	132.4767W	68	From 2004-03-15
DAWSON INLET T-PHASE SITE S1	H02S1	British Columbia,Canada	53.2025N	132.4766W	66	From 2006-11-20
Daxi	WLTB	Taiwan region	24.8526N	121.2524E	27	From 2001-11-20
Day	DAY	Djibouti	11.7527N	42.6382E		
Dayton	DYTN	Tennessee,U.S.A.	35.4910N	85.0920W	580	
Dayton Farm, Ripley	P56A	West Virginia,U.S.A.	39.5044N	78.8386W	249	From 2013-05-22
Deadman Bay	DMB	Alaska,U.S.A.	57.0872N	153.9600W	300	From 1975-10-01
Deadman Creek	MDCM	California,U.S.A.	37.7097N	119.0419W	2493	
Deadman Peak	DMPK	New Mexico,U.S.A.	36.4264N	106.7760W	2664	From 1976-11-22
Dead Sea	DSI	Israel	31.5700N	35.3800E	200	
Dead Sea Dam 2	DSD2	Israel	31.1800N	35.4400E	-390	
Deagu-acc	KSDAU	Republic of Korea	35.8856N	128.6187E	0	From 2007-12-11
Deakin University, Geelong	GEXS	Victoria,Australia	38.2008S	144.2902E	83	From 2013-02-25
Dease Lake	DLBC	British Columbia,Canada	58.4372N	130.0270W	978	From 1994-09-28
Dease Lake	DLB	British Columbia,Canada	58.4270N	130.0610W	1210	
Death Valley	DV-CL	California,U.S.A.	35.8333N	116.1017W	792	From 1962-01-20 to 1962-04-23
Death Valley	DV-	California,U.S.A.	35.8333N	116.1017W	792	From 1962-01-20 to 1962-04-23
De Beque	P20A	Colorado,U.S.A.	39.4998N	108.3912W	1738	From 2007-12-08 to 2009-11-04
De Bilt	DBN	Netherlands	52.1017N	5.1767E	3	From 1908-08-01
Debin	DBI	Magadanskaya Oblast',Russia	62.3390N	150.7550E	332	
Debrecen	DEB	Hungary	47.5611N	21.6389E	0	
Decatur	N48A	Indiana,U.S.A.	40.8591N	85.0271W	250	From 2012-08-31
Deception Hills	DHAK	Alaska,U.S.A.	59.0912N	138.2136W	678	
Deception Island	DEC	South Shetland Islands	62.9833S	60.7167W	7	
Decorah	J39A	Iowa,U.S.A.	43.3354N	91.7062W	350	From 2011-06-12 to 2013-06-03
Dedoflistskaro	DDFL	Georgia,Georgia	41.4458N	46.1183E	856	From 2011-11-18
Deep Cove	DCZ	South Island,New Zealand	45.4647S	167.1535E	71	From 1991-05-28
Deep Springs	DSP	California,U.S.A.	37.3700N	117.9700W	0	
Deer Creek Reservoir	DCU	Utah,U.S.A.	40.4137N	111.5270W	1829	From 1974-11-01
Deer Hill, Carlsbad	225A	New Mexico,U.S.A.	32.1101N	104.8229W	1703	From 2008-03-26 to 2010-02-19
Deer Island	DRRA	Alaska,U.S.A.	54.9235N	162.2832W	380	
Deer Island	DRIA	Alaska,U.S.A.	54.9661N	162.2629W	457	From 1996-07-01
Deer Lake	DRLN	Newfoundland,Canada	49.2560N	57.5042W	238	From 1993-12-14
Deerlick Creek	DLC	Alabama,U.S.A.	33.2608N	87.4448W	137	
Deer Lodge	E15A	Montana,U.S.A.	46.4246N	112.6412W	1520	From 2006-10-10 to 2009-06-12
Degenried	ZUR	Switzerland	47.3692N	8.5809E	615	From 1913-01-01
Degeres	DGS	Kazakhstan	43.2420N	75.7720E	1262	From 1985-01-01
Degersheim	SGT03	Switzerland	47.3656N	9.1995E	920	From 2012-01-15
Dehradun	DHDN	Himachal Pradesh,India	30.3280N	78.0143E	619	From 2007-05-01
Dehra Dun	DDI	Uttar Pradesh,India	30.3225N	78.0556E	682	
Dehrash	IDHR	Iran	34.6997N	46.3867E	1866	From 2004-01-01
Deir Qamar	DQRL	Lebanon	33.7057N	35.5702E	963	From 2010-03-30
Dekalb	DEK	Illinois,U.S.A.	41.9331N	88.7650W	259	From 1987-01-01
Delaikoro	NDE	Fiji	16.5860S	179.3176E	941	From 1981-11-01
Delamar Landing Field, Caliente	S12A	Nevada,U.S.A.	37.6083N	114.8489W	1479	From 2007-02-10 to 2008-09-17
Delamar Mountains	DLM	Nevada,U.S.A.	37.6063N	114.7384W	1744	From 1978-06-08 to 2002-10-10
Del Amo	DLAC	California,U.S.A.	33.8482N	118.0962W	14	
Delano Plantation, Melville	443A	Louisiana,U.S.A.	30.7642N	91.7809W	10	From 2011-02-13 to 2012-11-28
Delary	DEL	Sweden	56.4700N	13.8700E	150	From 1969-10-25
Delary	DEL1	Sweden	56.4717N	13.8683E	150	From 1967-08-01 to 1969-10-24
Delaware Emergency Management Agency	DEMA	Delaware,U.S.A.	39.3187N	75.6098W	12	
Delaware (Ont)	DLA	Ontario,Canada	42.8583N	81.5733W	227	From 1975-06-01
Delcer	SLDE	St Lucia	13.8031N	61.0583W	246	
Delcommune	DCC	Democratic Republic of the Congo	10.5100S	25.4550E	1437	
Delhi	DH-NY	New York,U.S.A.	42.2442N	74.8883W	652	From 1961-10-28 to 1965-11-15
Delhi	DH-	New York,U.S.A.	42.2442N	74.8883W	652	From 1961-10-28 to 1965-11-15
Delisi	TBLG	Georgia,Georgia	41.7309N	44.7382E	510	From 1976-01-01
Dell	DLAR	Arkansas,U.S.A.	35.8097N	90.0080W	67	
Dellbruck	BA08	Nordrhein-Westfalen,Germany	50.9642N	7.0755E	58	From 2006-10-01
Delli Paoli	DPLY	New York,U.S.A.	41.2528N	73.9108W	67	
Dell Rapids	DL-SD	South Dakota,U.S.A.	43.8328N	96.7733W	488	From 1962-12-28 to 1963-03-21
Dell Rapids	DL-	South Dakota,U.S.A.	43.8328N	96.7733W	488	From 1962-12-28 to 1963-03-21
Delmo Park	DPM	Montana,U.S.A.	45.9690N	112.2690W	1855	From 1984-01-01 to 1985-07-22
Deloro Mine	DELO	Ontario,Canada	44.5177N	77.6186W	213	From 2009-05-29
Delphi	DLFA	Greece	38.4784N	22.4957E	560	From 2011-04-12
Delta	DELX	Baja California,Mexico	32.3552N	115.1872W	28	From 1987-02-01
Delta Junction E	DJE	Alaska,U.S.A.	64.0280N	145.6790W	378	From 1990-06-07 to 2002-12-20
Delta Microwave	DMW	Alaska,U.S.A.	64.0563N	145.7310W	346	From 1986-01-01
Del Valle	CL1	California,U.S.A.	37.5663N	121.6800W	250	From 1979-10-10
Del Valle	CDVM	California,U.S.A.	37.5663N	121.6800W	250	From 1979-10-10
Demacu	DEIG	Mexico D.F.,Mexico	20.3012N	99.0353W	1994	From 2003-06-28
Demirci	DEMI	Turkey	39.0428N	28.7162E	920	From 2007-05-21
Demirkent	DDEM	Turkey	40.8923N	41.7507E	1149	From 2007-09-26
Demirkopru	DKP	Turkey	38.6142N	28.3128E	250	
Demirkoy	DMK	Turkey	41.8216N	27.7572E	315	From 1970-08-01 to 2003-02-28
Demirtas	DMT	Turkey	40.2750N	29.0972E	140	From 1978-08-01 to 1999-08-25
Demmitville	DMV	Missouri,U.S.A.	36.7040N	89.7450W	89	
Demre-Antalya	DEMR	Turkey	36.2365N	29.9056E	168	From 2011-08-01
Denali Highway	DHY	Alaska,U.S.A.	63.0763N	147.3730W	1615	From 1993-07-06
Denizli	DENT	Turkey	37.7540N	29.0330E	637	
Denizli	UZP	Turkey	38.0313N	29.1746E	1203	From 2007-04-08
Denizli/¯ameli-Kal¯–nkoz	CAEL	Turkey	37.1229N	29.3199E	1386	From 2014-12-05
DENIZLI_Tavas	TAVA	Turkey	37.4657N	28.9132E	1016	From 2011-09-27
Denniston	DNS	South Island,New Zealand	41.7381S	171.7960E	600	From 1968-05-25 to 1968-07-02
Denniston North	DSZ	South Island,New Zealand	41.7449S	171.8046E	650	From 1990-02-18
Denny Creek	YPDC	Montana,U.S.A.	44.7095N	111.2397W	2025	
Denpasar	DNP	Bali,Indonesia	8.6772S	115.2102E	15	From 1968-01-01
Denpasar	IGBI	Bali,Indonesia	8.8181S	115.1456E	0	From 2005-01-01
Dent	DEI	Idaho,U.S.A.	46.6400N	116.1990W	960	From 1971-10-01 to 1974-07-25
Dent Fell	XDE	England,United Kingdom	54.5058N	3.4897W	291	From 1983-04-15
Denton	DNT	Texas,U.S.A.	33.2167N	97.1333W	208	From 1925-01-01 to 1999-08-25
Denver	DEN	Colorado,U.S.A.	39.7917N	105.0330W	1655	From 1909-08-01
Denville	DENJ	New Jersey,U.S.A.	40.9662N	74.4642W	298	
Deoband	DBND	Uttar Pradesh,India	29.7167N	77.7312E	210	From 2007-05-01
Deokjeokdo	KSDEI	Republic of Korea	37.2558N	126.1049E	0	From 2008-01-01
Deposit	DP-NY	New York,U.S.A.	42.0883N	75.4522W	579	From 1962-07-07 to 1962-07-17
Deposit	DP-	New York,U.S.A.	42.0883N	75.4522W	579	From 1962-07-07 to 1962-07-17
Deputatskiy	DEPR	Sakha,Russia	69.3920N	139.9020E	320	From 2003-08-27
Deqen	ST01	Xizang Zizhiqu,China	30.6497N	90.1335E	4792	From 1998-07-17 to 1999-05-27
Derazinda	DRP	Pakistan	31.7440N	70.2028E	638	
Derbent	DERT	Turkey	40.3558N	29.6760E	50	From 1994-01-01
Derbent	DRN	Dagestan,Russia	42.0300N	48.3300E	-28	
Derby	DVT	Vermont,U.S.A.	44.9620N	72.1709W	370	
Derby	DER	Colorado,U.S.A.	39.8678N	104.8840W		

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Derby Farms, Drakesville	N39A	Iowa,U.S.A.	40.8776N	92.5023W	260	From 2010-11-16 to 2012-12-05
DeRidder	441A	Louisiana,U.S.A.	30.7498N	93.1898W	53	From 2011-02-11 to 2012-12-06
Dersam	DNY	New York,U.S.A.	42.8363N	78.1688W	381	From 1971-07-01 to 1979-04-30
Derveni	DVI	Greece	38.1020N	22.4090E	410	From 2006-05-10
Desaguadero	DSG	Bolivia	16.5594S	69.0250W	3810	
Des Bee Dove	DBD	Utah,U.S.A.	39.3137N	111.0925W	2265	
Dese	DESE	Ethiopia	11.1180N	39.6352E	2538	From 1988-01-01
Desenzano Tresine	GRDT	Italy	45.4853N	10.5227E	137	From 2004-01-10
Desert	DES	Hawaii,U.S.A.	19.3367N	155.3880W	815	From 1958-07-01
Desert Coulee Ranch, Glasgow	C21A	Montana,U.S.A.	47.8264N	107.0960W	804	From 2008-09-04 to 2011-01-13
Desert Hot Springs	DHS	California,U.S.A.	33.9667N	116.5000W	330	From 1948-01-01 to 1949-03-31
Deserto Penisola Sorrentina	DPS	Italy	40.6100N	14.3651E	456	From 1972-12-01
Deserto P. S.	DP1	Italy	40.6100N	14.3651E	456	From 1972-12-01
Desert Rsrch Ctr	DREC	California,U.S.A.	32.8053N	115.4468W	-13	
Desert Studies Ctr	DSCC	California,U.S.A.	35.1426N	116.1039W	283	
Desert Tortoise Park	DTP	California,U.S.A.	35.2675N	117.8450W	951	
Desert View Tower, Jacumba	DVTC	California,U.S.A.	32.6591N	116.1006W	881	From 2001-06-22 to 2010-01-14
Desfina	DESF	Greece	38.4127N	22.5321E	750	From 2008-06-12
Desfina	DSF	Greece	38.4112N	22.5271E	699	From 2008-02-28
Des Moines	DMI	Iowa,U.S.A.	41.6000N	93.6833W	296	From 1934-12-20 to 1937-06-30
Despedida	DSPA	Tierra del Fuego,Argentina	53.9536S	68.2668W	150	
Dessel	BDSL	Belgium	51.2168N	5.0648E	22	From 2008-11-01
Detroit Lake	H04A	Oregon,U.S.A.	44.6837N	122.1862W	652	From 2005-11-09 to 2008-12-03
Deva	DEV	Romania	45.8833N	22.9033E	250	From 1970-02-01
Devers	DEVC	California,U.S.A.	33.9360N	116.5779W	337	
Devilbend	DVBM	Victoria,Australia	38.2874S	145.0977E	75	
Devil Canyon	DVL	California,U.S.A.	34.1998N	117.3280W	598	From 1974-12-01 to 1976-11-30
Devil Mountain	DMA	Alaska,U.S.A.	66.3100N	164.5200W	243	From 1977-08-01
Devils Kitchen North	DKNM	California,U.S.A.	36.0510N	117.8088W	1347	
Devils Point	DVP	Vanuatu	17.7253S	168.1870E		
Devils Postpile	MDPM	California,U.S.A.	37.6325N	119.0797W	2315	
Devils Postpile Broadband	MDPB	California,U.S.A.	37.6323N	119.0793W	2360	
Devrek	DVR	Turkey	41.1594N	32.0075E	960	From 1991-01-01
Dezadeash Lake	DLY	Yukon Territory,Canada	60.3700N	137.0650W	738	From 1978-11-20 to 1981-03-31
Dgnorisa	DGN	Georgia,Georgia	42.4666N	42.8333E	450	From 1979-01-01
Dhahab	HDHB	Egypt	28.7221N	34.6188E	20	
Dhahran	DHR	Saudi Arabia	26.3039N	50.1389E	72	
Dhama@18r BB	DHBB	Yemen	14.5710N	44.3900E	2460	
Dhamar	DHMR	Yemen	14.5610N	44.3870E	2429	From 1994-06-01
Dhamar	DAMY	Yemen	14.5725N	44.3917E	2488	
DHARAMSHALA	DHRM	Himachal Pradesh,India	32.2500N	76.3000E	1995	From 1998-09-20
Dharan Janob	DHJN	Saudi Arabia	17.6600N	43.4890E	2400	From 1990-06-13
Dharma Camp	DHRN	Northwest Territories,Canada	67.0331N	119.5088W	218	From 2009-07-15
Dharwar	DHD	Goa, Daman and Diu,India	15.4328N	74.9844E	755	
Dhodishal	DHO	Pakistan	35.5850N	73.7090E	1847	From 2007-09-01
Dholavira	DOLA	Gujarat,India	23.5249N	70.1302E	36	From 2012-01-01
DHUBRI	DHUB	Assam,India	26.0201N	89.9955E	33	From 2011-05-01
Diablo Creek	DCD	California,U.S.A.	35.2122N	120.8408W	238	
Diadem	DMP	South Island,New Zealand	44.4126S	169.8273E	820	From 1975-03-15 to 1983-11-21
Diamantina, MG	DIAM	Brazil	18.2966S	43.6721W	1346	From 2015-01-20
Diamer-Basha	DAM1	Pakistan	35.5140N	73.7590E	1199	From 2007-09-01
Diamond	T38A	Missouri,U.S.A.	37.0354N	94.2930W	349	From 2011-01-25 to 2012-10-28
Diamond D Ranch, Stanley	H12A	Idaho,U.S.A.	44.5494N	114.8554W	1777	From 2006-11-17 to 2009-07-27
Diamond G Ranch, Dubois	I18A	Wyoming,U.S.A.	43.7013N	109.8171W	2322	From 2007-10-26 to 2009-09-18
Diamond Head	DHH	Hawaii,U.S.A.	21.2632N	157.8006W	125	From 1985-05-01
Diamond Ranch	DIR	California,U.S.A.	36.3363N	120.3760W	496	From 1973-11-07 to 1975-06-16
Diamondview Rd.	KB5O	Ontario,Canada	45.3931N	76.1453W	98	From 2013-10-01
Dianopolis -TO	RET6	Tocantins,Brazil	11.4560S	46.8860W	516	From 2012-06-14
Diavik Mine	DVKN	Northwest Territories,Canada	64.5092N	110.3096W	420	
DIBRUGARH	DIBR	Assam,India	27.4676N	94.9112E	90	From 2011-05-01
Dickey	D2A	Maine,U.S.A.	47.1303N	69.1503W	402	From 1976-10-01 to 1999-08-25
Dickey	D3A	Maine,U.S.A.	47.0875N	69.1669W	259	From 1976-10-01 to 1999-08-25
Dickey	D6A	Maine,U.S.A.	47.0890N	69.4957W	430	
Dickey	D4A	Maine,U.S.A.	47.1881N	69.2767W	490	
Dickey	D1A	Maine,U.S.A.	47.0586N	69.0989W	305	From 1976-10-01 to 1999-01-31
Dickey	D5A	Maine,U.S.A.	47.0113N	69.2650W	365	
Dickinson College	DCP	Pennsylvania,U.S.A.	40.2040N	77.1970W	143	From 1990-01-14
Dider Farm, Eltopia	E08A	Washington,U.S.A.	46.4911N	119.0595W	233	From 2006-09-26 to 2008-12-03
Didima	DID	Greece	37.5063N	23.2368E	520	From 2006-04-10
Didim-Aydin	DIDI	Turkey	37.3766N	27.2398E	75	From 2011-04-19
Didyma	DIDY	Greece	37.4765N	23.2118E	1036	From 2008-10-13
Didziasalis	IDID	Lithuania	55.3148N	26.7390E	111	
Diego Aracena	TA01	Tarapacˆ¡	20.5657S	70.1807W	75	From 2013-11-21
Diego Carcia HYDROACOUSTIC SITE N1	H08N1	Chagos Archipelago	6.3421S	71.0143E	-3556	From 2010-01-24
Diego Carcia HYDROACOUSTIC SITE S1	H08S1	Chagos Archipelago	7.6453S	72.4744E	-3302	From 2010-01-24
Diego Garcia	DGAR	Chagos Archipelago	7.4121S	72.4525E	0	
Diego Garcia HYDROACOUSTIC SITE N2	H08N2	Chagos Archipelago	6.3251S	71.0001E	-3616	From 2010-01-24
Diego Garcia HYDROACOUSTIC SITE N3	H08N3	Chagos Archipelago	6.3454S	70.9919E	-3524	From 2010-01-24
Diego Garcia HYDROACOUSTIC SITE S2	H08S2	Chagos Archipelago	7.6453S	72.4933E	-3274	From 2010-01-24
Diego Garcia HYDROACOUSTIC SITE S3	H08S3	Chagos Archipelago	7.6275S	72.4838E	-3135	From 2010-01-24
DIEGO GARCIA INFRASONIC ARRAY REFERENCE POINT	DGAR	Chagos Archipelago	7.3778S	72.4842E	1	From 2002-12-18
Dienbien	DBV	Vietnam	21.3900N	103.0250E	1050	
Dierke Farm, Cannon Falls	H37A	Minnesota,U.S.A.	44.5812N	92.9181W	321	From 2010-09-27 to 2012-09-10
Difesa San Luca	DSB1	Italy	41.2872N	14.9769E	940	
Diga del Menta	ME05	Italy	38.1243N	15.8999E	1458	From 2007-10-22 to 2010-01-31
Digger Butte	LDBM	California,U.S.A.	40.4317N	121.7850W	1225	
Dighton	R30A	Kansas,U.S.A.	38.2844N	100.2769W	776	From 2009-04-16 to 2011-03-17
DIGLIPUR	DGPR	Andaman Islands,India	13.1776N	92.9305E	30	From 2008-01-27
Digne	OGDI	Provence-Cote d'Azur,France	44.1100N	6.3003E	770	
Digne	OG29	Rhone-Alpes,France	44.0925N	6.2650E	685	From 1991-01-22
Digorskoe uzhel'e	DIGR	Severo-Osetinskaya,Russia	42.8994N	43.5807E	1907	From 2003-11-01
Dikili	DKL	Turkey	39.0713N	26.9054E	45	From 2010-07-22
Dikmen	DIKM	Turkey	41.6496N	35.2578E	258	From 2006-06-27
Dilar	DILR	Spain	37.0430N	3.6188W	1100	
Dilar	EXDI	Spain	37.0680N	3.6010W	898	
Dili	DLI	East Timor,East Timor	8.5669S	125.5533E	0	
Dilla	DILA	Ethiopia	6.4343N	38.2867E	1432	
Dillingham	DLL	Alaska,U.S.A.	59.0000N	158.7000W	0	
Dillon	DI-	Montana,U.S.A.	45.1736N	112.4478W	1859	From 1966-05-23 to 1966-05-24
Dillon	G15A	Montana,U.S.A.	45.1660N	112.4887W	1857	From 2006-11-09 to 2009-06-09
Dillon	DLMT	Montana,U.S.A.	45.3625N	112.5964W	1569	
Dillon	DI-MA	Montana,U.S.A.	45.1736N	112.4478W	1859	From 1966-05-23 to 1966-05-24
Dillon Ranch	DIL	California,U.S.A.	36.8353N	121.6440W	204	From 1967-08-09
Dillon Ranch	HDLM	California,U.S.A.	36.8353N	121.6440W	204	From 1967-08-09
Dillon Ranch	AN5*	California,U.S.A.	36.8353N	121.6440W	204	From 1967-08-09
Dilts Ranch, Bill	J23A	Wyoming,U.S.A.	43.4036N	105.5524W	1499	From 2008-10-15 to 2010-09-08
Dimbokro	DBIC	Ivory Coast	6.6701N	4.8563W	25	
DIMBOKRO INFRASONIC ARRAY REFERENCE POINT	DIMI	Ivory Coast	6.6704N	4.8569W	156	From 2002-03-29
Dimitropoulo, Aigialia, West Greece	DIMT	Greece	38.2468N	22.0436E	72	From 2000-05-15
Dimitrovgrad	DIM	Bulgaria	42.0500N	25.5333E	160	
Dimmadalsˆ¡s	IDIM	Iceland	65.9615N	16.9319W	266	From 2008-11-20
Dimmitt	X28A	Texas,U.S.A.	34.5185N	102.1973W	1160	From 2009-01-22 to 2010-11-15
Dimona	DIMI	Israel	31.0080N	35.1020E	520	
Dine' College, Tsaile	U19A	Arizona,U.S.A.	36.2925N	109.2076W	2166	From 2008-02-21 to 2009-03-18
Dingess, Beckley	S54A	West Virginia,U.S.A.	37.7997N	81.3114W	636	From 2013-05-17
Dionisos Attiki	DION	Greece	38.0779N	23.9331E	457	From 2011-12-22
Dipolog	DIP	Mindanao,Philippines	8.6000N	123.3500E	3	From 1972-01-01 to 1972-10-31
Dipolog City	DCPH	Mindanao,Philippines	8.5830N	123.3520E	5	
Dique - Cabra Corral	AQCC	Salta,Argentina	25.2687S	65.3293W	1020	From 1996-08-30
Dirks Ranch, Alva	H24A	Wyoming,U.S.A.	44.7473N	104.5524W	1166	From 2008-10-20 to 2010-08-14
Disappointment Valley, Cahone	S20A	Colorado,U.S.A.	37.8300N	108.3605W	2355	From 2008-06-19 to 2009-11-11
Discovery Mine	DSMN	Northwest Territories,Canada	63.1799N	113.9004W	307	
Disk Island	DSK	Alaska,U.S.A.	60.5020N	147.6470W	15	From 1974-07-27 to 1975-10-18
Disney Wilderness Preserve, Florida	DWPF	Florida,U.S.A.	28.1103N	81.4327W	30	From 2010-09-24
Divibare	DIVS	Serbia	44.0982N	19.9917E	996	From 2003-09-27
Divide	DIV	Alaska,U.S.A.	61.1295N	145.7717W	931	
Divide	Q24A	Colorado,U.S.A.	38.9641N	105.1492W	2775	From 2008-06-28
Divnogorie	VORD	Voronezhskaya Oblast',Russia	50.9660N	39.2930E	94	From 1998-02-01
Divnogorsk	DVG	Krasnoyarskiy Kray,Russia	55.9561N	92.4036E	241	From 2001-12-18

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Divot King Ranch, Dilley	733A	Texas,U.S.A.	28.7192N	99.2939W	169	From 2009-12-03 to 2011-10-11
Dixie Hot Springs	DIXR	Nevada,U.S.A.	39.8022N	118.0820W	1143	From 1980-01-01
Dixie Valley	P08A	Nevada,U.S.A.	39.6946N	118.0800W	1040	From 2006-02-26 to 2008-03-11
Dixon Mills	248A	Alabama,U.S.A.	32.0940N	87.7393W	103	From 2011-04-08 to 2013-01-25
Dixon Ranch, Lance Creek	J24A	Wyoming,U.S.A.	43.3305N	104.6613W	1315	From 2008-10-25 to 2010-09-11
Diyadin	DYDN	Turkey	39.5436N	43.6889E	2010	From 2006-09-13
Diyarbakir	DIY	Turkey	37.8958N	40.2263E	900	From 1994-01-06
Diyarbakir	DIYA	Turkey	37.9234N	40.1208E	838	From 2006-12-18
Diyarbakir	DYBB	Turkey	37.9531N	40.1394E	826	From 2009-12-10
Diyarbakir_Hani	HANI	Turkey	38.4147N	40.3994E	923	From 2011-10-30
Djebel Ababsia	CABS	Algeria	36.2733N	7.4778E	1025	
Djebel Ababsia	ABSA	Algeria	36.2733N	7.4778E	1025	
Djebel Berber	OJBR	Algeria	35.5835N	0.3450E	800	
Djebel Bou Affroun	DFRA	Algeria	36.5450N	5.8769E	1187	
Djebel Bou Ahmed	EBHM	Algeria	36.3772N	1.0758E	829	
Djebel Bou Ietas	OBLS	Algeria	34.9750N	0.4420W	1053	
Djebel Bou Maad	EBOM	Algeria	36.4222N	2.2128E	1225	
Djebel Bou Yalou	EBYL	Algeria	36.4242N	1.8325E	1051	
Djebel Djouab	ADJB	Algeria	36.1577N	3.4380E	1140	
Djebel Guires	OJGS	Algeria	35.5045N	0.7497E	920	
Djebel Kef Guellal	OKGL	Algeria	36.0380N	0.6430E	560	
Djebel Ketaf	AKET	Algeria	36.0470N	3.8822E	1428	
Djebel Kodjel	OKJL	Algeria	35.0405N	0.1647E	1075	
Djebel Mahouada	EMHD	Algeria	36.2008N	2.9530E	1250	
Djebel Manchoura	CMAH	Algeria	36.6250N	7.4197E	795	
Djebel Midouna	OMID	Algeria	35.2800N	0.1900W	745	
Djebel Saadia	ESAD	Algeria	35.9167N	1.3572E	890	
Djebel Tachoubennt	ETHB	Algeria	36.0245N	1.7300E	1070	
Djebel Tanoua	ETAN	Algeria	35.9083N	2.3358E	1595	
Djebel Tarf	ATAF	Algeria	35.8737N	4.2772E	1000	
Djebel Teioualt	CTEI	Algeria	36.0630N	6.4063E	1285	
Djebel Tessala	OTSS	Algeria	35.2817N	0.7942W	1055	
Djerdap	DJES	Serbia	44.6660N	22.5200E	392	From 1996-05-20
Djoy, Khakassia, Russia	DJO	Khakassia,Russia	52.7818N	91.2180E	553	From 2003-11-16
Djoyskaya Sosnovka, Khakassia, Russia	DJOS	Khakassia,Russia	52.7945N	91.3984E	569	From 2011-02-03
Dmanisi	DMNS	Georgia,Georgia	41.3300N	44.2000E	1260	
Dmanisi	DMNI	Georgia	41.3291N	44.1902E	1256	From 2013-11-16
DMTO	DMTO	Oman	17.7163N	54.9475E	161	
Doab	IDOB	Iran	33.7874N	48.1774E	1935	From 2008-01-01
Doan Hung	DHV	Vietnam	21.6268N	105.1838E	70	
Dobbs Creek Ranch, Lacey	D04A	Washington,U.S.A.	47.1109N	122.8035W	31	From 2005-10-24 to 2008-03-29
Dobcross Hall	BDL	Scotland,United Kingdom	54.8030N	2.9385W	157	
Doboj	DOB	Bosnia and Herzegovina	44.7330N	18.1000E	165	From 2003-09-01
Dobrich	DOBAM	Bulgaria	43.5811N	27.8310E	246	From 2012-11-20
Dobrina	DOBS	Slovenia	46.1495N	15.4691E	425	From 1996-12-01
Dobrovo	DBY	Slovenia	45.9990N	13.5280E	100	From 1989-08-14 to 1989-08-17
Dobruska-Polom	DPC	Czech Republic	50.3502N	16.3222E	748	
Dobryanka	PR2R	Permskiy Kray,Russia	58.5482N	56.1868E	120	From 2002-02-14
Dochfour	MDO	Scotland,United Kingdom	57.4410N	4.3630W	366	From 1981-01-01
Dochia	DOC	Romania	46.9069N	26.5500E	330	From 1984-01-01 to 1988-08-15
Docker River	DOCK	Western Australia,Australia	24.8380S	129.0334E	650	
Doda	DODA	Jammu and Kashmir	33.1452N	75.5552E	1126	
Dodaira	DDR	Saitama,Japan	35.9983N	139.1930E	800	From 1966-04-01
Dodoma	DODM	Tanzania,United Republic of Tanzania	6.2070S	35.7562E	1183	
Dodoma	DOD	Tanzania,United Republic of Tanzania	6.2083S	35.7556E	1204	
Dodoma, Tanzania	DODT	Tanzania,United Republic of Tanzania	6.1900S	35.7500E	1114	From 2007-02-11
Dodoni	DDN	Greece	39.5314N	20.8449E	1108	From 2007-11-07
Dodson Butte	DBO	Oregon,U.S.A.	43.1192N	123.2430W	984	From 1990-08-01
Doe Ridge	MDRNC	California,U.S.A.	37.6379N	118.8357W	2191	
Doetra (Ölivone)	DOETR	Switzerland	46.5324N	8.8773E	1771	From 2005-12-15
Dog Skin Mountain	DSM	Nevada,U.S.A.	39.8672N	119.7087W	1804	
Dogwood	DWDM	Missouri,U.S.A.	36.7961N	89.4927W	89	
Dogwood	DWM	Missouri,U.S.A.	36.8050N	89.4900W	92	From 1974-11-20
Dogwood Acres, Gardner	D32A	North Dakota,U.S.A.	47.1354N	97.0164W	280	From 2010-08-15 to 2012-06-21
Doima	ST27	Xizang Zizhiqu,China	32.7437N	88.8506E	4867	From 1998-07-25 to 1999-06-05
Doi Son	DSV	Vietnam	20.5870N	105.9740E	70	
Dolbeau-Mistassini	DMCQ	Quebec,Canada	48.9646N	72.0680W	197	From 2009-09-15
Dolgoi Island	DOL	Alaska,U.S.A.	55.1485N	161.8636W	442	From 1996-07-01
Dolgoi Island	DLG	Alaska,U.S.A.	55.1410N	161.8358W	367	
Dolores	ABRA	Luzon,Philippines	17.6490N	120.7120E	50	
Dombai	DOMR	Stavropol'skiy Kray,Russia	43.2920N	41.6240E	1608	From 2006-10-25
Dombas	DOMB	Norway	62.0424N	9.0642E	660	
Domengine Ranch	PDRM	California,U.S.A.	36.3357N	120.3690W	488	
Domenigoni Valley Reservoir	DGR	California,U.S.A.	33.6500N	117.0095W	609	From 1993-03-17
Dome Shelter	DRZ	North Island,New Zealand	39.2753S	175.5635E	2692	From 1984-03-23
Dominica	DOM	Dominica	15.2960N	61.3910W	15	From 1953-02-03
Dominica; Chance, Portsmouth	MDPO	Dominica	15.5760N	61.4510W	8	From 2009-11-01
Dominical	EDDO	Costa Rica	9.2530N	83.8640W	40	
Dominica, Moore Park	MDMP	Dominica	15.5958N	61.4115W	180	From 2010-01-27
Dominica, Pennville	MDPV	Dominica	15.6275N	61.4220W	320	From 2010-01-27
Dominica, Vielle Case	MDVC	Dominica	15.6142N	61.4055W	100	From 2009-12-17
Domo	DOMO	Ecuador	0.3033N	78.3592W	3600	From 1994-04-01 to 1994-08-31
Domodossola	DMD	Italy	46.1167N	8.3000E	280	
Dompierre	DOMF	Nord-Pas-de-Calais,France	50.1288N	3.8610E	145	
Donald B. Munro Dr,	KB4O	Ontario,Canada	45.3743N	76.1633W	102	From 2013-10-01
Don Dixon Farm, Corydon	S46A	Kentucky,U.S.A.	37.6849N	87.7153W	125	From 2011-11-24
Dongducheon	KSDDC	Republic of Korea	37.9000N	127.0577E	112	From 2000-11-10
DONGHAE	KSTOH	Republic of Korea	37.5026N	129.1226E	40	From 2000-03-10
Dongobesh	DONB	Tanzania,United Republic of Tanzania	3.9110S	35.2540E	1472	
Dongo Capesterre	DOG	Guadeloupe,France	16.0320N	61.6178W	460	
Dongola	DON	Missouri,U.S.A.	37.1760N	89.9330W	165	From 1974-07-10
Don Marcelino, Davao Occidental, Philippines	DDMP	Mindanao,Philippines	6.1045N	125.7113E	100	From 2012-07-20
Donna J Jenkins	DJJ	California,U.S.A.	34.1062N	118.4551W	268	
Donnelly	H11A	Idaho,U.S.A.	44.7035N	116.0127W	1525	From 2006-10-27 to 2008-07-16
Donnelly Dome	DDM	Alaska,U.S.A.	63.7872N	145.8630W	920	From 1977-09-01
Donner Summit	DONR	California,U.S.A.	39.3517N	120.3205W	2268	
Don Santos Ranch	CDSM	California,U.S.A.	37.9663N	122.2530W	109	From 1973-11-15
Doolan Road	CDOM	California,U.S.A.	37.7300N	121.8350W	198	From 1970-07-29
Doolan Road	DOO	California,U.S.A.	37.7300N	121.8350W	198	From 1970-07-29
Doongara	DNGQ	Queensland,Australia	20.5550S	146.4750E	280	From 1984-02-29
DOOR	DOOR	Bolivia	19.3535S	67.2221W	3749	From 1994-05-30 to 1995-08-08
Dopca	DOPR	Romania	45.9674N	25.3887E	526	From 2005-08-31
Dorado de Cascales	CASC	Ecuador	0.1368N	77.3390W	1029	From 2012-07-12
Dora Dora	DRAM	Victoria,Australia	35.9654S	147.3754E	230	
Dorchester	DRC	South Carolina,U.S.A.	33.1075N	80.3883W	20	
Dorgali Grotta	DGI	Sardinia,Italy	40.3182N	9.6067E	343	
Dorot	DOR	Israel	31.5090N	34.6860E	130	
Dorr	K46A	Michigan,U.S.A.	42.6864N	85.7834W	213	From 2012-09-09
Dortyol	DRTT	Turkey	36.8400N	36.2480E	45	From 1994-03-01
Dortyol-Hatay	DORT	Turkey	36.8260N	36.1967E	27	From 2011-09-01 to 2013-12-01
Dos Bocas Dam	DOS	Puerto Rico	18.3294N	66.6789W	400	From 1974-08-16 to 1975-07-17
Dos Picos Cty Pk	DPP	California,U.S.A.	32.9986N	116.9415W	463	
Dos Rios de Upala	2RIO	Costa Rica,Costa Rica	10.5284N	85.2332W	619	
Dosso, Cento (FE)	T0803	Italy	44.7668N	11.3508E	9	From 2012-05-21 to 2012-08-27
Dosso del Sommo	DOSS	Italy	45.8808N	11.1884E	1660	From 2011-12-12
Dosso del Sommo	DDS	Italy	45.8808N	11.1884E	1664	From 1982-01-01 to 2011-12-12
Dot Lake	DOT	Alaska,U.S.A.	63.6487N	144.0620W	671	From 1986-01-01
Double 8 Ranch, Willits	P01C	California,U.S.A.	39.4690N	123.3375W	440	From 2005-08-24 to 2007-09-04
Double "B" Farms	T59A	Virginia,U.S.A.	36.9716N	77.5541W	63	From 2013-03-20
Double Butte	DB2	California,U.S.A.	33.7352N	117.0629W	591	
Double Diamond Ranch, Oakley	L13A	Idaho,U.S.A.	42.0886N	113.9444W	1482	From 2006-12-13 to 2008-08-07
Double Mountain	DBM	California,U.S.A.	34.9790N	118.3610W	1204	
Double T Ranch, Babb	A14A	Montana,U.S.A.	48.9725N	113.4218W	1420	From 2007-09-03 to 2009-08-13
Douglas	319A	Arizona,U.S.A.	31.3757N	109.2809W	1187	From 2007-03-06 to 2010-05-28
Douliou City	WDL	Taiwan region	23.7150N	120.5390E	41	From 1999-08-04
Douliu	WDLH	Taiwan region	23.6888N	120.5381E	69	From 2011-01-05
Dourbes	NE06	Belgium	50.0960N	4.5942E	225	From 1982-07-01 to 2001-07-28
Dourbes	DOU	Belgium	50.0960N	4.5950E	224	From 1982-07-01
Downhole Baldwin Hills	DHB	California,U.S.A.	34.0175N	118.3850W		From 1973-03-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Downie Pk Ridge	DPRB	British Columbia,Canada	51.5750N	118.1970W	2135	
Downie Slide	DOWB	British Columbia,Canada	51.5183N	118.5160W	594	
Downsview	DVO	Ontario,Canada	43.7833N	79.5167W	193	From 1975-08-01
Doyle Hill	DHN	New York,U.S.A.	42.8255N	78.1930W	491	
Dozier	350A	Alabama,U.S.A.	31.4207N	86.3353W	109	From 2012-01-21
DQM	DQM	Oman	19.9289N	57.5393E	169	
Dracevica, Montenegro	DRME	Montenegro	42.1867N	19.1843E	300	From 2009-06-09
Draeger Farm, Ripon	I42A	Wisconsin,U.S.A.	43.8908N	88.9134W	298	From 2011-09-28 to 2013-11-27
Dragan	DRR	Romania	46.7869N	22.7219E	955	From 1979-01-01 to 2004-03-05
Dragano-Lefkada	DRAG	Greece	38.6839N	20.5746E	348	From 2014-09-01
Dragasani	DRA	Romania	44.6786N	24.2561E	180	From 1978-01-01
Drage	N2B4	Norway	62.1190N	5.2430E	110	
Dragoon	218A	Arizona,U.S.A.	31.9737N	110.0464W	1486	From 2007-03-05 to 2009-01-20
Dragot	DRGI	Israel	31.5930N	35.3920E	12	
Drain, OR	I03D	Oregon,U.S.A.	43.6972N	123.3487W	140	From 2009-11-03
Drake	X35A	Oklahoma,U.S.A.	34.3995N	96.9731W	300	From 2010-04-18 to 2012-02-02
Drake Creek	DCID1	Idaho,U.S.A.	43.5945N	111.1845W	1871	
DRAMA	DRA2	Greece	41.1593N	24.1485E	110	From 2013-06-30
Dramaga	DBJI	Jawa,Indonesia	6.5538S	106.7497E	211	From 2005-01-01
Draper Farm, Castleford	K12A	Idaho,U.S.A.	42.6360N	114.9029W	1091	From 2006-12-11 to 2008-07-25
Dreilaegerbach Talsperre	DREG	Nordrhein-Westfalen,Germany	50.6630N	6.2330E	390	From 2006-11-01
Drenchia	DRE	Italy	46.1733N	13.6433E	810	From 1982-12-20
Drewsey	I08A	Oregon,U.S.A.	43.9104N	118.5692W	1189	From 2006-07-23 to 2008-04-06
Drift River	DFR	Alaska,U.S.A.	60.5920N	152.6860W	1097	From 1988-08-15
Dromana	DROM	Victoria,Australia	38.3482S	144.9598E	138	
Drossia	DRO	Greece	37.9523N	21.7104E	422	From 2009-07-16
Drum Mountains (BLM), Topaz	P14A	Utah,U.S.A.	39.5906N	113.0687W	1784	From 2007-06-12 to 2008-11-18
Drumtochty	EDR	Scotland,United Kingdom	56.9190N	2.5393W	388	From 1989-01-12
Dry Creek	GDCM	California,U.S.A.	38.7672N	123.2400W	772	From 1975-05-07
Dry Creek	MDYM	California,U.S.A.	37.6580N	119.0122W	2789	
Dry Creek	DCI	Idaho,U.S.A.	43.9548N	111.0960W	2020	From 1974-06-01 to 1980-07-24
Dry Ridge	DY-KY	Kentucky,U.S.A.	38.6497N	84.6433W	259	
Dry Ridge	DY-	Kentucky,U.S.A.	38.6497N	84.6433W	259	
Drytown Water District	ADWM	California,U.S.A.	38.4392N	120.8480W	251	From 1976-07-21
Dry Willow Peak	DWU	Utah,U.S.A.	38.1053N	112.9980W	2270	
Duane Minner, Soldier	P35A	Kansas,U.S.A.	39.5286N	96.0188W	418	From 2010-05-16 to 2012-03-16
Duarte Ranch	DUC	California,U.S.A.	38.0297N	122.0010W	168	From 1971-04-28
Duba	DBAS	Saudi Arabia	27.2100N	35.9700E	452	
Dubbo College Senior Campus	AUDCS	New South Wales,Australia	32.2300S	148.6300E	276	From 2013-05-29
Dubki	DBC	Dagestan,Russia	43.0200N	46.8300E	900	
Dublin	DSB	Ireland	53.2452N	6.3762W	236	From 1993-12-01
Dublin Merrion Square	DMS	Ireland	53.3406N	6.2486W	5	From 1990-11-01 to 2002-01-06
DUBNA INFRASONIC ARRAY REFERENCE POINT	I43RU	Moskovskaya Oblast',Russia	56.7214N	37.2176E	120	From 2009-05-20
Dubrovnik	DBR	Croatia	42.6470N	18.0790E	68	
Dubrovnik	DBRK	Croatia	42.6691N	18.1469E	293	
Dubuque	DBQ	Iowa,U.S.A.	42.5067N	90.6833W	244	From 1962-01-01
Ducktown	DCT	Tennessee,U.S.A.	35.0542N	84.4194W	508	
Duckwater	Q11A	Nevada,U.S.A.	38.8455N	115.6541W	1562	From 2006-06-08 to 2008-09-11
Dugan Ranch, Towner	B28A	North Dakota,U.S.A.	48.4492N	100.3616W	451	From 2009-08-10 to 2011-07-16
Dugi Otok	DUOK	Croatia	44.1131N	14.9318E	115	
Dugi Otok	DUGI	Croatia	43.9918N	15.0579E	299	
Dugout Coal Mine	DCM	Utah,U.S.A.	39.6950N	110.5833W	2537	
Dugway, Tooele County	DUG	Utah,U.S.A.	40.1950N	112.8133W	1477	From 1962-05-09
Duke of York Island	DOY	New Britain,Papua New Guinea	4.2170S	152.3980E	1	From 1983-11-17
Dulce	DNM	New Mexico,U.S.A.	36.9333N	106.9960W		
Duluth	DUL	Minnesota,U.S.A.	46.8200N	92.0833W	340	From 1952-01-01 to 1961-12-31
Dumoine, Pontiac MRC	E53A	Quebec,Canada	46.3784N	77.6638W	355	From 2012-09-12
Dumont d'Urville	DRV	Terre Adelie	66.6650S	140.0090E	40	
Dunai	DUYS	Sakha,Russia	73.9200N	124.4900E	5	From 1988-11-01 to 1995-02-01
Dundee	EDU	Scotland,United Kingdom	56.5475N	3.0142W	275	From 1969-01-01
Dunderburg Mountain	DBMY	New York,U.S.A.	41.2944N	73.9750W	27	
Dundo	DUN	Angola	7.4088S	20.8372E	709	From 1970-03-01
Dundret	DUNU	Sweden	67.1215N	20.5688E	500	From 2003-11-25
Dunedin	DNZ	South Island,New Zealand	45.8647S	170.5151E	15	From 1979-11-02 to 1991-08-31
Dunedin-Penfold	DND	South Island,New Zealand	45.8817S	170.5318E	100	From 1945-01-01 to 1983-10-31
Dungji	WDGT	Taiwan region	23.2600N	119.6600E	33	
Dungshr Township	TWDS	Taiwan region	24.2600N	120.8310E	367	From 2001-04-10
Dunmovintown East	DTEM	California,U.S.A.	36.0975N	117.9258W	1152	
Dunnerdale	CDU1	England,United Kingdom	54.3362N	3.1952W	355	From 1992-01-01
Dunnigan Hills	NDHM	California,U.S.A.	38.7655N	121.9120W	69	
Dunn Peak	DPI	Idaho,U.S.A.	47.2887N	116.8990W	1709	
Dunn Ranch,Anza	DNR	California,U.S.A.	33.5667N	116.6306W	1274	From 2001-10-22
DUNO	DUNO	Costa Rica	10.0791N	85.4937W	188	
Dunphy	N10A	Nevada,U.S.A.	40.7186N	116.5080W	1392	From 2006-05-02 to 2008-08-15
Dunsink Observatory	DDK	Ireland	53.3869N	6.3392W	85	From 1977-04-01 to 2002-01-06
Dunstable	K63A	New Hampshire,U.S.A.	42.6888N	71.5283W	68	From 2013-09-08
Duppenweiler	DUP	Rheinland-Pfalz,Germany	49.4113N	6.7863E	280	
Dupree	G27A	South Dakota,U.S.A.	45.3791N	101.9310W	761	From 2009-06-25 to 2011-05-26
Duragan	DGT	Turkey	41.4258N	35.0655E	255	From 1976-09-01
Durango	DR-CO	Colorado,U.S.A.	37.4647N	107.7833W	2225	From 1961-10-01 to 1964-12-30
Durango	DGC	Colorado,U.S.A.	37.2625N	107.8990W	2340	From 1970-01-01 to 1972-11-30
Durango	DR-	Colorado,U.S.A.	37.4647N	107.7833W	2225	From 1961-10-01 to 1964-12-30
Durant	DU-OK	Oklahoma,U.S.A.	34.0364N	96.2178W	198	From 1963-08-14 to 1964-03-09
Durant	DU-	Oklahoma,U.S.A.	34.0364N	96.2178W	198	From 1963-08-14 to 1964-03-09
Durant	Y36A	Oklahoma,U.S.A.	33.8996N	96.2848W	186	From 2010-04-26 to 2012-02-08
Durate Ranch	CDUM	California,U.S.A.	38.0297N	122.0010W	168	From 1971-04-28
Duren	BA11	Nordrhein-Westfalen,Germany	50.7666N	6.5010E	138	From 2006-10-01
Durham	DUR	England,United Kingdom	54.7684N	1.5850W	103	
Durham (NH)	DNH	New Hampshire,U.S.A.	43.1225N	70.8948W	24	From 1976-01-01
Durham Road	DREZ	North Island,New Zealand	39.1888S	174.2010E	272	From 2008-03-04
Durika	DRK0	Costa Rica	9.2630N	83.2450W	1475	
Durkee	H09A	Oregon,U.S.A.	44.6653N	117.6643W	1263	From 2006-07-29 to 2008-07-12
Duronia	DUI	Italy	41.6589N	14.4581E	918	
Dursunbey	DURS	Turkey	39.6011N	28.4742E	960	From 2007-05-29
Dursunbey	DST	Turkey	39.6040N	28.6191E	685	From 1975-10-22
Dursunbey	DRB	Turkey	39.5811N	28.6374E	620	From 1970-08-01 to 1975-10-22
D'Urville Island	DUWZ	South Island,New Zealand	40.8017S	173.9217E	484	From 2003-12-10
D'Urville Island	DIW	South Island,New Zealand	40.8005S	173.9222E	460	From 1990-04-18 to 2004-06-09
Dushanbe	DSH	Tajikistan	38.5583N	68.7750E	847	
Dusheti	DUS	Georgia,Georgia	42.0902N	44.7019E	946	From 1953-01-01
Dusing	DSN	New York,U.S.A.	42.8443N	78.1803W	412	From 1971-07-01 to 1976-01-16
Dusty Glacier	YUK7	Yukon Territory,Canada	60.5307N	138.1399W	1992	From 2010-08-24
Dutch Harbor	DHA	Alaska,U.S.A.	53.8950N	166.5330W		
Dutch Harbor	DUT	Alaska,U.S.A.	53.8983N	166.5370W	60	
Dutton Round Hill	DT1	Alaska,U.S.A.	55.1075N	162.2808W	210	From 1996-08-01
Dutton South Flank	DTNA	Alaska,U.S.A.	55.1493N	162.2520W	366	From 1996-08-01
Duxbury	DXB	Massachusetts,U.S.A.	42.0610N	70.6992W	8	
Duxbury	DUX	Massachusetts,U.S.A.	42.0686N	70.7678W	27	From 1976-10-01
D`…zce	YIGI	Turkey	40.9631N	31.4485E	353	From 2013-01-30
Dweir	DWR	Lebanon	33.3855N	35.4013E	420	
Dwight	DTN	Nebraska,U.S.A.	41.0217N	97.0358W	464	From 1980-08-25
Dyer Hill	DHW	Washington,U.S.A.	47.9605N	119.7690W	850	From 1975-06-01
Dyer Hill 2	DHW2	Washington,U.S.A.	47.9853N	119.7700W	884	
Dyersburg	DRTN	Tennessee,U.S.A.	36.1370N	89.3650W	137	From 1989-08-08
Dyersburg	DY1	Tennessee,U.S.A.	36.1917N	89.3917W	120	From 1969-01-01 to 1970-12-31
Dylym	DLMR	Dagestan,Russia	43.0700N	46.6300E	420	
Dyngjuhals	IDYN	Iceland	64.7909N	17.3663W	1209	From 2011-09-29
Dyngjujokull	DJK	Iceland	64.5041N	17.2357W	1683	From 2014-08-17
Dzhafr	DZH	Tajikistan	39.1000N	70.5833E	1650	
Dzhankel'dy	DZN	Uzbekistan	40.8500N	63.3400E	211	
Dzherino	DZE	Tajikistan	38.7800N	68.8300E		
Dzherino	DZET	Tajikistan	38.8055N	68.8270E	1200	From 2010-02-23
Dzhirgatal'	DZT	Tajikistan	39.2200N	71.2200E		
Dzhizak	DZI	Uzbekistan	40.1200N	67.8200E	384	
Dziouia	ODZI	Algeria	35.2900N	1.2300W	293	From 2005-01-01
e3183	WP22	Namibia	19.8847S	13.9487E	908	From 2011-05-15
e3369	WP04	Namibia	21.2304S	14.9014E	863	From 2010-10-26
e3371	WP05	Namibia	20.5439S	14.4625E	604	From 2010-10-27
e3372	WP08	Namibia	19.8747S	12.9770E	6	From 2010-11-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
e3376	WP21	Namibia	19.6217S	14.8483E	1233	From 2010-10-30
e3380	WP02	Namibia	21.3047S	14.4751E	677	From 2010-10-25
e3381	WP01	Namibia	21.3520S	15.4405E	960	From 2010-10-24
e3382	WP06	Namibia	20.2142S	15.0128E	1080	From 2010-10-28
e3385	WP20	Namibia	18.6871S	14.9460E	1139	From 2010-11-15
Eade Ranch	EADB	California,U.S.A.	35.8952N	120.4229W	254	
Eads	R27A	Colorado,U.S.A.	38.2859N	102.7980W	1201	From 2008-12-08 to 2010-11-07
Eagle	EGAK	Alaska,U.S.A.	64.7774N	141.1581W	296	
Eagle	P22A	Colorado,U.S.A.	39.5952N	106.7589W	2170	From 2008-06-22 to 2010-06-15
Eagle	EGC	Colorado,U.S.A.	39.6525N	106.8280W	2010	From 1970-01-01 to 1972-11-30
Eagle Butte	EBS	South Dakota,U.S.A.	44.9998N	101.2320W	735	From 1972-05-01
Eagle Creek	ECR	Idaho,U.S.A.	43.0540N	111.3710W	2086	
Eagle Field, Dos Palos	T05C	California,U.S.A.	36.8953N	120.6737W	46	From 2005-02-14 to 2007-09-03
Eagle Flat	EF-TX	Texas,U.S.A.	31.1764N	105.1300W	1433	From 1962-01-25 to 1962-05-03
Eagle Flat	EF-	Texas,U.S.A.	31.1764N	105.1300W	1433	From 1962-01-25 to 1962-05-03
Eagle Lake	637A	Texas,U.S.A.	29.4390N	96.3324W	45	From 2010-05-24 to 2011-11-06
Eagle Lake Field Station, Susanville	ELFS	California,U.S.A.	40.6183N	120.7279W	1553	From 2005-05-20 to 2007-10-09
Eagle Mountain	MT2	Texas,U.S.A.	30.8990N	105.0800W	2088	From 1977-03-01 to 2003-01-28
Eagle Mountain	EAG	California,U.S.A.	33.8490N	115.4730W	366	From 1974-11-01 to 2002-12-20
Eagle Plains	EPYK	Yukon Territory,Canada	66.3701N	136.7191W	717	From 2012-10-10
Eagle's Nest	EGN	New York,U.S.A.	43.8595N	74.4818W	549	From 1971-09-01 to 1983-10-31
Eagleton	EGMT	Montana,U.S.A.	48.0240N	109.7547W	1055	From 2005-11-17
Eaglette Bearden	Y41A	Arkansas,U.S.A.	33.8807N	92.6113W	99	From 2011-05-06 to 2013-02-15
Earlville	K58A	New York,U.S.A.	42.7633N	75.6473W	509	From 2013-08-29
Early Branch	157A	South Carolina,U.S.A.	32.6780N	80.9972W	21	From 2013-02-25
Early Rise 101	ER101	Ontario,Canada	47.9297N	83.1364W	457	
Early Rise 102	ER102	Ontario,Canada	48.1019N	82.6036W	457	
Early Rise 103	ER103	Ontario,Canada	48.2264N	82.1694W	305	
Early Rise 104	ER104	Ontario,Canada	48.3378N	81.7542W	396	
Early Rise 105	ER105	Ontario,Canada	48.4878N	81.2706W	305	
Early Rise 106	ER106	Ontario,Canada	48.5383N	80.7681W	274	
Early Rise 107	ER107	Ontario,Canada	48.5386N	80.2775W	305	
Early Rise 108	ER108	Ontario,Canada	48.5333N	79.8642W	457	
Early Rise 109	ER109	Quebec,Canada	48.7975N	79.3572W	290	
Early Rise 110	ER110	Quebec,Canada	48.8636N	78.8636W	305	
Early Rise 111	ER111	Quebec,Canada	48.6225N	78.3106W	305	
Early Rise 112	ER112	Quebec,Canada	48.6964N	77.9039W	320	
Early Rise 113	ER113	Quebec,Canada	48.8361N	77.4203W	290	
Early Rise 114	ER114	Quebec,Canada	49.1194N	77.0067W	305	
Early Rise 115	ER115	Quebec,Canada	49.3811N	76.5378W	305	
Early Rise 116	ER116	Quebec,Canada	49.5914N	76.0267W	305	
Early Rise 117	ER117	Quebec,Canada	49.8236N	75.6000W	305	
Early Rise 118	ER118	Quebec,Canada	49.8206N	75.1281W	381	
Early Rise 119	ER119	Quebec,Canada	49.7906N	74.6381W	381	
Early Rise 120	ER120	Quebec,Canada	49.9247N	74.2583W	396	
Early Rise 201	ER201	Quebec,Canada	49.5947N	74.2772W	381	
Early Rise 202	ER202	Quebec,Canada	49.3533N	74.0381W	46	
Early Rise 203	ER203	Quebec,Canada	49.1858N	73.6717W	381	
Early Rise 204	ER204	Quebec,Canada	49.0400N	73.3633W	381	
Early Rise 205	ER205	Quebec,Canada	48.8747N	72.9336W	351	
Early Rise 207	ER207	Quebec,Canada	48.5564N	72.3456W	123	
Early Rise 208	ER208	Quebec,Canada	48.4097N	71.9767W	137	
Early Rise 209	ER209	Quebec,Canada	48.4856N	71.6039W	168	
Early Rise 210	ER210	Quebec,Canada	48.3447N	71.1464W	152	
Early Rise 211	ER211	Quebec,Canada	48.2758N	70.7978W	274	
Early Rise 212	ER212	Quebec,Canada	48.1725N	70.2931W	183	
Early Rise 213	ER213	Quebec,Canada	48.0150N	70.0728W	244	
Early Rise 215	ER215	Quebec,Canada	47.8044N	69.4231W	152	
Early Rise 216	ER216	Quebec,Canada	47.6272N	69.0097W	290	
Early Rise 217	ER217	Quebec,Canada	47.4864N	68.6633W	366	
Early Rise 218	ER218	New Brunswick,Canada	47.4047N	68.3417W	175	
Early Rise 219	ER219	New Brunswick,Canada	47.2181N	67.9167W	183	
Early Rise 220	ER220	New Brunswick,Canada	47.0175N	67.7278W	173	
Early Rise 221	ER221	New Brunswick,Canada	46.9122N	67.3647W	213	
Early Rise 222	ER222	New Brunswick,Canada	46.8806N	66.9761W	442	
Early Rise 223	ER223	New Brunswick,Canada	46.8133N	66.6133W	396	
Early Rise 224	ER224	New Brunswick,Canada	46.5922N	66.2322W	122	
Early Rise 225	ER225	New Brunswick,Canada	46.5383N	65.8464W	31	
Early Rise 226	ER226	New Brunswick,Canada	46.3369N	65.5950W	46	
Early Rise 227	ER227	New Brunswick,Canada	46.1961N	65.1625W	61	
Early Rise 228	ER228	New Brunswick,Canada	46.1475N	64.9058W	152	
Early Rise 229	ER229	New Brunswick,Canada	46.0150N	64.5211W	76	
Early Rise 230	ER230	New Brunswick,Canada	45.9686N	64.1742W	46	
Early Rise 231	ER231	Nova Scotia,Canada	45.8667N	63.8197W	15	
Early Rise 232	ER232	Nova Scotia,Canada	45.7489N	63.4486W	31	
Early Rise 234	ER234	Nova Scotia,Canada	45.5922N	62.7147W	76	
Early Rise 235	ER235	Nova Scotia,Canada	45.5986N	62.3006W	61	
Early Rise 236	ER236	Nova Scotia,Canada	45.5822N	61.9044W	15	
Early Rise 237	ER237	Nova Scotia,Canada	45.6264N	61.5583W	46	
Early Rise 238	ER238	Nova Scotia,Canada	45.6239N	61.2200W	23	
Early Rise 239	ER239	Nova Scotia,Canada	45.6617N	60.8392W	15	
Early Rise 241	ER241	Nova Scotia,Canada	46.0281N	60.2061W	76	
Early Rise 242	ER242	Nova Scotia,Canada	46.1606N	59.9367W	15	
Early Rise 300	ER300	Pennsylvania,U.S.A.	40.4617N	80.1806W	287	
Early Rise 301	ER301	Pennsylvania,U.S.A.	40.2869N	79.9494W	311	
Early Rise 302	ER302	Pennsylvania,U.S.A.	40.0783N	79.7703W	317	
Early Rise 303	ER303	Pennsylvania,U.S.A.	39.8753N	79.5306W	616	
Early Rise 304	ER304	Maryland,U.S.A.	39.6958N	79.2636W	823	
Early Rise 306	ER306	West Virginia,U.S.A.	39.2528N	78.9119W	290	
Early Rise 307	ER307	West Virginia,U.S.A.	39.0336N	78.6531W	457	
Early Rise 308	ER308	Virginia,U.S.A.	38.8297N	78.4356W	270	
Early Rise 309	ER309	Virginia,U.S.A.	38.6222N	78.2317W	232	
Early Rise 310	ER310	Virginia,U.S.A.	38.3764N	78.0556W	122	
Early Rise 311	ER311	Virginia,U.S.A.	38.1644N	77.8139W	128	
Early Rise 312	ER312	Virginia,U.S.A.	37.9578N	77.5933W	67	
Early Rise 313	ER313	Virginia,U.S.A.	37.7381N	77.4308W	64	
Early Rise 314	ER314	Virginia,U.S.A.	37.5247N	77.1858W	37	
Early Rise 315	ER315	Virginia,U.S.A.	37.2964N	76.9653W	18	
Early Rise 316	ER316	Virginia,U.S.A.	37.0883N	76.7550W	24	
Early Rise 317	ER317	Virginia,U.S.A.	36.8811N	76.5819W	18	
Early Rise 318	ER318	Virginia,U.S.A.	36.6356N	76.3594W	3	
Early Rise 319	ER319	North Carolina,U.S.A.	36.3908N	76.1642W	6	
Ear Mountain	EAM	Alaska,U.S.A.	65.9193N	166.2420W	700	
Earnscleugh	EAZ	South Island,New Zealand	45.2311S	169.3083E	350	From 2004-11-01
Earthquake Lake	QLMT	Montana,U.S.A.	44.8307N	111.4300W	2064	From 1994-09-09
East Anglia University	AEU	England,United Kingdom	52.6201N	1.2347E	15	
East Aurora	EAN	New York,U.S.A.	42.7686N	78.6192W	282	
East Aurora area, Hawthorne	TVH3	Nevada,U.S.A.	38.3548N	118.8199W	2071	
East Bangong	ST18A	Xizang Zizhiqu,China	31.9747N	89.2051E	4611	From 1998-07-24 to 1998-08-16
East Boqe	ST06	Xizang Zizhiqu,China	31.1243N	90.0972E	5084	From 1998-07-16 to 1999-06-01
Eastbourne	TEB	England,United Kingdom	50.8188N	0.1459E	70	From 1989-01-01
East Braintree	EB-	Manitoba,Canada	49.6278N	95.6222W	312	From 1963-08-06 to 1964-08-12
East Braintree	EB-MT	Manitoba,Canada	49.6278N	95.6222W	312	From 1963-08-06 to 1964-08-12
Eastbrook	H65A	Maine,U.S.A.	44.6961N	68.2469W	98	From 2013-09-16
East Cape	ECZ	North Island,New Zealand	37.6919S	178.5464E	40	From 1934-10-01 to 1985-07-26
East Claridon	CECL	Ohio,U.S.A.	41.5470N	81.1020W	362	
East Dome	ESD	Washington,U.S.A.	46.1973N	122.1500W	1609	
East End Reserv.	EASTN	Queensland,Australia	23.8641S	150.9647E	139	
East Entrance	YPEE	Wyoming,U.S.A.	44.4905N	110.0010W	2134	
Easter Island	EIC	Easter Island,Chile	27.1581S	109.4340W	42	
EASTER ISLAND INFRASONIC ARRAY REFERENCE POINT	CEIPO	Easter Island,Chile	27.1273S	109.3627W	163	From 2005-03-17
East Falkland Island	EFI	Falkland Islands	51.6753S	58.0637W	110	
East Helena	E16A	Montana,U.S.A.	46.5336N	111.6764W	1398	From 2007-09-12 to 2009-07-13
East Kanab	EKU	Arizona,U.S.A.	37.0747N	112.4968W	1829	
East Lansing	LNSM	Michigan,U.S.A.	42.7310N	84.4770W	256	
East Machias	EMMT	Maine,U.S.A.	44.7833N	67.3533W	33	From 1932-07-01 to 1940-12-31
East Machias	EMMW	Maine,U.S.A.	44.7100N	67.4583W	35	
East Machias	EMM	Maine,U.S.A.	44.7392N	67.4894W	20	
East Mammoth Hills	MEMM	California,U.S.A.	37.6660N	118.9398W	2473	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
East Mesa	EMSC	California,U.S.A.	32.7392N	114.9852W	11	
East Pahranagat Range	EPR	Nevada,U.S.A.	37.1687N	115.1864W	1305	From 1979-01-23 to 2002-10-10
East Prairie	EPRM	Missouri,U.S.A.	36.7173N	89.3583W	88	
East Promontory	EPU	Utah,U.S.A.	41.3915N	112.4090W	1436	From 1975-09-01
east rand property ines	ERPM	Transvaal,South Africa	26.3433S	28.2418E	1611	From 2006-05-23
East Ridge	ERMT	Montana,U.S.A.	45.9932N	112.4560W	1928	From 1984-01-01 to 1987-10-01
East Ridge	PQ1	Maine,U.S.A.	44.9035N	67.3271W	93	
East Ridge Elementary School	EARN	Washington,U.S.A.	47.7400N	122.0400W	10	
Eastside	ESTR	Nevada,U.S.A.	38.0913N	118.3267W	2012	
East Tamaki Reservoir	ETAZ	North Island,New Zealand	36.9535S	174.9278E	-215	From 2010-02-12
East Traverse Mountains	ETU	Utah,U.S.A.	40.4772N	111.8440W	1884	From 1974-07-01 to 1983-11-30
East Waterloo Road, Luther	OK023	Oklahoma,U.S.A.	35.7247N	97.1623W	291	
East Wide Canyon	EWC	California,U.S.A.	33.9372N	116.3822W	466	
East Wray Mesa	PV17	Colorado,U.S.A.	38.2799N	108.9595W	1991	
Easy	EASY	Turkey	40.8747N	28.9713E	8	From 2006-09-29
Eatonton	ETG	Georgia,U.S.A.	33.2912N	83.3507W	137	From 1978-02-01
E Barbuda OBS	O6A	Barbuda,Antigua and Barbuda	17.7920N	61.0220W	-496	
Ebbets Pass	EBP	California,U.S.A.	38.5828N	119.8063W	2432	
Eben Emael	BEBN	Belgium	50.7965N	5.6772E	80	From 1986-04-01
Ebenezer Church	EBZ	Tennessee,U.S.A.	35.1410N	89.3510W	169	From 1980-05-15
Ebro Roquetas	EBRE	Spain	40.8228N	0.4940E	36	
Ebro Roquetas	EBR	Spain	40.8206N	0.4936E	50	
Ech Chlef	ECHA	Algeria	36.1500N	1.3667E	0	
Ech Chlef	ECHF	Algeria	36.1562N	1.3403E	207	
Echelle	ECG	Guadeloupe,France	16.0418N	61.6538W	1395	
Echery	ECH	Alsace,France	48.2158N	7.1583E	580	From 1967-10-31
Echo Falls	ECF	California,U.S.A.	34.4580N	119.0910W	1000	From 1975-11-01
Echo Lake	ELW	Washington,U.S.A.	47.4943N	121.8714W	267	
Echo Peak	EPM	Nevada,U.S.A.	37.2266N	116.3346W	2221	From 1990-09-18 to 2002-12-10
Echo Peak	EHN	Nevada,U.S.A.	37.2138N	116.3237W	2280	
Eclectic	150A	Alabama,U.S.A.	32.6067N	86.0220W	145	From 2012-01-18 to 2013-08-09
Ecole de Borzuat	SIEB	Switzerland	46.2955N	7.5351E	553	From 2012-01-27
Ecomontan@16a	MONT	El Salvador	13.8577N	89.6472W	2054	
Ecuador	ANGL	Ecuador	0.3929S	77.5444W	3360	From 1990-08-01
Ecuador Network	MECU	Ecuador	0.5375S	78.2442W	4090	
Ecuador Network	GECU	Ecuador	0.3172S	78.1897W	4350	
Ecuador Network	RECU	Ecuador	0.6420S	78.4030W		
Ecuador Network	AECU	Ecuador	0.2705S	78.4070W	3000	
Ecuador Network	PECU	Ecuador	0.3950S	78.6025W	3550	
Ecuador Network	CECU	Ecuador	0.4762S	77.8703W	2220	
Ecuador Network	IECU	Ecuador	0.4750S	78.3067W	3720	
Ecuador Network	BECU	Ecuador	0.4747S	78.5962W	3320	
Eden	EDEN	Ecuador	0.0367S	78.5212W	3270	
Eden Park BICEP	EPAZ	North Island,New Zealand	36.8755S	174.7436E	-343	From 2011-08-23
Edgard	545A	Louisiana,U.S.A.	30.0441N	90.4894W	3	From 2011-03-11 to 2012-12-09
Edgecumbe	EDRZ	North Island,New Zealand	38.1065S	176.7393E	780	From 1993-03-10
Edge Oya	EO1	Svalbard,Norway	77.6583N	21.2167E	4	From 1977-01-01
Edgerton	M48A	Ohio,U.S.A.	41.4846N	84.7171W	258	From 2012-07-22
Edgewood	ED-MI	Michigan,U.S.A.	43.2556N	84.4114W	213	From 1965-12-02 to 1965-12-13
Edgewood	ED-	Michigan,U.S.A.	43.2556N	84.4114W	213	From 1965-12-02 to 1965-12-13
Edificio de Ingenierˆ›a Civil	CIVI	Ecuador	0.2118S	78.4912W	2850	From 2010-08-24
Edinburgh	EDI	Scotland,United Kingdom	55.9233N	3.1861W	125	
Edincik	EDT	Turkey	40.3468N	27.8634E	270	From 1972-12-03
Edincik	EDC	Turkey	40.3468N	27.8634E	270	From 1972-12-03
Edirne	EDRB	Turkey	41.8470N	26.7440E	209	
Edirne/Enez-Cavuskoy	CAVK	Turkey	40.6917N	26.1677E	97	From 2014-12-01
Edirne-Kesan	KESN	Turkey	40.8259N	26.6800E	3071	From 2010-11-11
Edison Barstow Service Cntr. Barstow	RRX	California,U.S.A.	34.8753N	116.9968W	439	From 2000-11-08
Edison CC	ECCO	Ohio,U.S.A.	40.1580N	84.2130W	274	
Edith	EDIT	Tennessee,U.S.A.	35.8630N	89.5543W	148	
Edith	T22A	Colorado,U.S.A.	37.0138N	106.9030W	2224	From 2007-12-21 to 2010-02-07
Edmonton	T49A	Kentucky,U.S.A.	37.1050N	85.5334W	313	From 2012-05-21
Edmonton	EDM	Alberta,Canada	53.2217N	113.3500W	730	From 1963-04-01
Edmundbyers	EDMD	England,United Kingdom	54.8312N	1.9636W	337	From 2011-10-04
Edmundston	EBN	New Brunswick,Canada	47.4617N	68.2417W	195	From 1981-10-28
Edmundston, New Brunswick	EDMN	New Brunswick,Canada	47.4607N	68.2398W	186	From 2000-10-16
Edson Butte	KEBM	Oregon,U.S.A.	42.8722N	124.3342W	818	
Edwards Air Force Base 2, Rosamond	EDW2	California,U.S.A.	34.8811N	117.9939W	772	From 2004-05-04
Edwards Air Force Base,Rosamund	EDW	California,U.S.A.	34.8830N	117.9911W	789	From 1990-03-15 to 2004-08-03
EDZO	EDZN	Northwest Territories,Canada	62.7272N	116.0990W	244	From 2011-07-15
Eel River Conservation Camp, Redway	O01C	California,U.S.A.	40.1398N	123.8195W	137	From 2005-08-25 to 2007-11-17
Eenrum	ENM	Netherlands	53.4076N	6.4823E	1	
Eenrum	ENM2	Netherlands	53.4064N	6.4817E	-99	From 2010-01-22
Eenrum	ENM3	Netherlands	53.4064N	6.4817E	-149	From 2010-01-22
Eenrum	ENM4	Netherlands	53.4064N	6.4817E	-199	From 2010-01-22
Eenrum	ENM1	Netherlands	53.4064N	6.4817E	-49	From 2010-01-22
Effingham	EFO	Ontario,Canada	43.0917N	79.3117W	168	From 1979-07-06
EFORIE	EFOR	Romania	44.0795N	28.6323E	30	From 2008-11-12
Efpalio	EFP	Greece	38.4269N	21.9058E	115	From 2006-08-03
Efringen	EFR	Baden-Wurttemberg,Germany	47.6653N	7.5637E	280	From 1984-12-01
Eggersriet	SGT05	Switzerland	47.4418N	9.4559E	905	From 2012-01-15
Egilsstadhir	EGI	Iceland	65.2833N	14.3833W	25	
Egridir - ISPARTA	BAGO	Turkey	37.9905N	30.7886E	958	From 2010-07-06
Egvard	EGVZ	Armenia	39.2300N	46.5500E	0	
Egvekinot, Chukotka	EGV	Magadanskaya Oblast',Russia	66.3230N	179.1270W	18	From 1990-01-01 to 1994-12-31
Eidsvold	EIDS	Queensland,Australia	25.3691S	151.0817E	216	From 2002-11-06
Eielson Array	NPO	Alaska,U.S.A.	64.7714N	146.8865W	419	
Eielson Array Beam Reference Point	ILAR	Alaska,U.S.A.	64.7714N	146.8866W	419	
Eielson Array Broadband	ILB	Alaska,U.S.A.	64.7714N	146.8866W	419	From 1993-07-01
Eielson Array Site 1	IL1	Alaska,U.S.A.	64.7716N	146.8860W	418	From 1993-07-01
Eielson Array Site 10	IL10	Alaska,U.S.A.	64.7529N	146.8431W	586	
Eielson Array Site 11	IL11	Alaska,U.S.A.	64.7415N	146.8974W	444	
Eielson Array Site 12	IL12	Alaska,U.S.A.	64.7447N	146.9436W	366	
Eielson Array Site 13	IL13	Alaska,U.S.A.	64.7479N	146.9865W	367	
Eielson Array Site 14	IL14	Alaska,U.S.A.	64.7750N	146.9794W	223	
Eielson Array Site 15	IL15	Alaska,U.S.A.	64.7777N	146.9428W	336	
Eielson Array Site 16	IL16	Alaska,U.S.A.	64.7933N	146.9215W	382	
Eielson Array Site 17	IL17	Alaska,U.S.A.	64.8072N	146.8898W	357	
Eielson Array Site 18	IL18	Alaska,U.S.A.	64.7575N	146.7768W	554	
Eielson Array Site 19	IL19	Alaska,U.S.A.	64.7461N	146.7974W	549	
Eielson Array Site 2	IL02	Alaska,U.S.A.	64.7847N	146.8643W	261	
Eielson Array Site 3	IL03	Alaska,U.S.A.	64.7714N	146.8512W	440	
Eielson Array Site 4	IL04	Alaska,U.S.A.	64.7570N	146.8761W	528	
Eielson Array Site 5	IL05	Alaska,U.S.A.	64.7731N	146.9229W	389	
Eielson Array Site 6	IL06	Alaska,U.S.A.	64.7792N	146.9040W	262	
Eielson Array Site 7	IL07	Alaska,U.S.A.	64.7993N	146.8393W	401	
Eielson Array Site 8	IL08	Alaska,U.S.A.	64.7903N	146.7969W	505	
Eielson Array Site 9	IL09	Alaska,U.S.A.	64.7681N	146.7832W	494	
Eigenji	JEG	Shiga,Japan	35.1353N	136.3905E	433	From 1996-01-01
Eightmile Canyon	EMI	Idaho,U.S.A.	44.0742N	112.9260W	1963	From 1992-01-01
Ein Gedi	ENGI	Israel	31.4690N	35.3940E	-321	
Eisghbrachaidh	REB	Scotland,United Kingdom	58.1188N	5.2822W	100	From 1995-09-10
Ekalaka	F24A	Montana,U.S.A.	45.8452N	104.4448W	1105	From 2008-11-15 to 2010-08-06
Ekati Mine	EKTN	Northwest Territories,Canada	64.6984N	110.6095W	469	
Ekimchan	EKMR	Khabarovskiy Kray,Russia	53.0700N	132.9500E	543	
Ekimyata	PR6R	Permskiy Kray,Russia	58.1658N	56.0925E	163	From 2006-11-08
Ekona	EKC	Cameroon	4.2100N	9.3269E	450	From 1984-12-01
Eksjoe	EKSU	Sweden	57.5726N	15.3016E	250	From 2002-05-04
El Abra	ABR	Veracruz,Mexico	19.8070N	96.5345W	520	
El 'Aiyat	AUT	Egypt	29.6660N	31.1800E		
Elanda	ELDR	Altayskiy Kray,Russia	51.2170N	86.0900E	472	
El Angel	ANGS	El Salvador	13.8000N	89.1917W	850	From 1991-12-01
El Apazote	APG	Guatemala	15.0040N	90.4643W	1880	
Elat	EIL	Israel	29.6699N	34.9512E	210	From 1997-01-01
Elaudy	ELYF	Aquitaine,France	43.1700N	0.9917W	700	From 1985-02-01 to 1998-01-22
El?visluoto, Pyhˆjoki	OBF1	Finland	64.4100N	24.0400E	25	From 2013-08-01
El Ayoun	AYNT	Tunisia	35.5737N	8.9292E	1100	
Elazig	ELZ	Turkey	38.6894N	39.2064E	1180	From 1973-09-17 to 1974-05-31
Elazig	ELZG	Turkey	38.4978N	38.9844E	1640	From 2002-04-25

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Elazig	ELA	Turkey	38.6833N	39.2333E		
Elaz˘ˇ/Kovanc˘ˇlar-Tepebag	KOVA	Turkey	38.7057N	39.8126E	1101	From 2014-12-01
El Baul	BAUV	Venezuela	8.9433N	68.0415W	106	
El Cabril	ECAB	Spain	38.0753N	5.4186W	520	
EL CAFE	CAFV	Venezuela	10.2649N	68.0541W	1060	From 2004-05-25
El Cajon	ECA	California,U.S.A.	32.8000N	116.9500W	135	From 1949-01-01 to 1999-08-25
El Canelo	CACH	O'Higgins,Chile	34.1169S	70.6000W	1300	From 1990-11-06
El Cayaco	CAIG	Guerrero,Mexico	17.0478N	100.2673W	80	
El Centro	ECC	California,U.S.A.	32.7983N	115.5480W	-15	From 1956-11-28 to 1970-09-30
El Centro	ETC	Colombia	6.8625N	73.7694W	140	From 1975-01-31
Elche	EXEL	Spain	38.2660N	0.6980W	108	
El Chinero	ECBX	Baja California,Mexico	31.4720N	115.0513W	40	From 1983-05-17
Elcito	EL6	Italy	43.3293N	13.1017E	978	From 2005-09-01
Elco	ELC	Illinois,U.S.A.	37.2850N	89.2270W	153	From 1974-07-19
Elcoad	IELO	Spain	42.8432N	1.2366W	819	From 2008-07-18
El Crucero	CRUN	Nicaragua	11.9833N	86.3000W	930	
Elda	EXED	Spain	38.4720N	0.7910W	407	
Eldee	EEO	Ontario,Canada	46.6411N	79.0733W	398	From 1984-03-04
Eldivan	ELDT	Turkey	40.4900N	33.4269E	1596	From 1992-07-01
Eldon	D03D	Washington,U.S.A.	47.5347N	123.0894W	262	From 2010-08-25
Eldorado	EDMA	Misiones,Argentina	26.3635S	54.4305W	228	
El Dorado	EDK	Kansas,U.S.A.	37.7738N	96.7950W	418	From 1978-04-17 to 2001-07-15
Eldorado Mountains	EMN	Nevada,U.S.A.	35.9214N	114.7541W	785	From 1988-08-11 to 2002-10-10
Electric Lake	ELU	Utah,U.S.A.	39.6402N	111.2038W	2970	
El Ejido	EXEE	Spain	36.7750N	2.8130W	107	
Elena	ELND	Bulgaria	42.9287N	25.8751E	334	From 2012-11-20
Elephant Butte, Truth or Consequences	Z22A	New Mexico,U.S.A.	33.2555N	106.9639W	1497	From 2008-04-11 to 2010-03-20
Eleskirt	EATA	Turkey	39.8622N	42.4916E	2770	From 2009-10-04
El Faro	LFRS	El Salvador	13.6233N	89.0617W	1000	From 1991-12-01
Elgin	H56A	Ontario,Canada	44.5930N	76.2594W	137	From 2012-11-17
Elgin	L32A	Nebraska,U.S.A.	42.0045N	98.0080W	586	From 2010-07-18 to 2012-04-25
Elginfield	ELFO	Ontario,Canada	43.1930N	81.3163W	298	From 2009-05-21
Elginfield	ELF	Ontario,Canada	43.1933N	81.3150W	320	From 1975-06-01
Elgin, New Brunswick	ELNB	New Brunswick,Canada	45.8543N	65.1510W	158	From 2012-07-25
El Golfo de Santa Clara	EGM	Baja California,Mexico	31.6783N	114.4920W	5	From 1969-04-26
El Granada	JEGM	California,U.S.A.	37.5140N	122.4620W	202	From 1975-02-10
El Granado	EGRO	Spain	37.5342N	7.4831W	130	
El Guri	GURV	Venezuela	7.7600N	63.0850W	199	From 2003-05-15
Elham, Standardhill Farm (Kent)	ELSH	England,United Kingdom	51.1482N	1.1345E	126	From 2008-01-25
El Hato	EHV	Venezuela	8.8064N	70.8647W	3700	From 1974-01-01
El Hierro	CHIE	Canary Islands,Spain	27.7270N	17.9607W	170	From 1989-06-01
El Hierro	CTAN	Canary Islands,Spain	27.7544N	18.0543W	180	From 2011-07-01
El Hierro	CTIG	Canary Islands,Spain	27.7882N	17.9221W	53	From 2009-08-14
El Hiral	FRIJ	Panama	9.2220N	79.7260W	0	
El Hobo	HOBC	Colombia	4.3548N	76.1355W	1180	From 1987-01-01
Elida	Y26A	New Mexico,U.S.A.	33.9232N	103.8246W	1371	From 2008-04-18 to 2010-03-10
Elim	ELIM	Cape Province,South Africa	34.5967S	19.7450E	472	From 2000-01-01
Eliza Dome	EDB	British Columbia,Canada	49.8737N	127.1200W	189	
Elizondo	ELIZ	Spain	43.1639N	1.5285W	523	From 1992-12-03
El Julon, El Hierro	CJUL	Canary Islands,Spain	27.7296N	18.0823W	1282	From 2011-07-01
Elk Butte	EBI	Idaho,U.S.A.	46.8375N	116.1180W	1765	From 1987-01-01
Elk Chute Ditch	ECD	Missouri,U.S.A.	36.0600N	89.9400W	79	From 1975-09-25 to 1992-02-29
Elk City	F12A	Idaho,U.S.A.	45.7565N	115.2547W	1442	From 2006-11-03 to 2009-06-15
Elkhorn Farm, Martin	J27A	South Dakota,U.S.A.	43.2526N	102.0069W	1081	From 2009-08-01 to 2011-05-11
Elkhorn Ranch	BEHM	California,U.S.A.	36.6647N	121.1740W	342	From 1971-02-01
Elkhorn Ranch	EKH	California,U.S.A.	36.6647N	121.1740W	342	From 1971-02-01
Elkhorn Road	HERM	California,U.S.A.	36.7983N	121.7110W	69	
Elko	ELK	Nevada,U.S.A.	40.7448N	115.2390W	2210	From 1968-11-01
Elko	EKO	Nevada,U.S.A.	40.8122N	115.7760W	1615	From 1969-11-12
Elko Archery Club, Elko	N11A	Nevada,U.S.A.	40.8167N	115.7360W	1643	From 2006-05-03 to 2008-08-13
Elk River	EKR	California,U.S.A.	40.6953N	124.1390W	49	From 1974-06-20
Elk Rock	ERK	Washington,U.S.A.	46.3056N	122.3410W	1270	
El Ksiba	KIB	Morocco	32.5760N	6.0390W	935	
Ellensburg	EL-	Washington,U.S.A.	46.9242N	120.7300W	975	From 1962-05-28 to 1962-06-28
Ellensburg	EL-WA	Washington,U.S.A.	46.9242N	120.7300W	975	From 1962-05-28 to 1962-06-28
Ellensburg	EBG	Washington,U.S.A.	46.9097N	120.5680W	805	
Ellenville	ELNV	New York,U.S.A.	41.5000N	74.4398W	323	
Ellicott	JELM	California,U.S.A.	36.9273N	121.8270W	85	
Ellicott City	ECM	Maryland,U.S.A.	39.2613N	76.8842W	140	
Ellicott, Santa Cruz County	JELB	California,U.S.A.	36.9274N	121.8276W	81	From 2006-07-19
Elliot Lake	ELLO	Ontario,Canada	46.3832N	82.6639W	328	
Ellis	Q31A	Kansas,U.S.A.	39.0048N	99.3950W	680	From 2009-05-18 to 2011-03-20
El Lisan	LISJ	Jordan	31.2400N	35.4810E	-327	From 1990-02-23
Ellis Ranch, Medicine Bow	L22A	Wyoming,U.S.A.	42.0310N	106.4338W	2012	From 2007-11-26 to 2010-05-13
Ellisras	ERS	Transvaal,South Africa	23.6816S	27.7233E	840	From 1994-07-01 to 2003-11-21
Elliston	ELMT	Montana,U.S.A.	46.5222N	112.4945W	1981	From 1996-08-31
El Llanito	LLAV	Venezuela	10.4696N	66.8097W	875	From 1988-01-01
Ellsinore	EN-	Missouri,U.S.A.	36.8828N	90.5956W	152	From 1965-10-25 to 1966-02-25
Ellsinore	EN-MO	Missouri,U.S.A.	36.8828N	90.5956W	152	From 1965-10-25 to 1966-02-25
Ellsworth	ECT	Connecticut,U.S.A.	41.8346N	73.4113W	342	From 1976-01-28 to 1999-08-25
Ellsworth Farm, Hinsdale	B21A	Montana,U.S.A.	48.4278N	107.0166W	661	From 2008-09-05 to 2010-07-18
Elm	EMA	Alabama,U.S.A.	33.2210N	87.4738W	92	From 1971-01-09
Elma	ELM	New York,U.S.A.	42.8497N	78.6442W	216	From 1971-07-01 to 1976-07-28
Elmali	ELL	Turkey	36.7482N	29.9085E	1230	From 1973-11-29
El Manteco	GMV	Venezuela	7.3558N	62.5404W	248	
El Maslubiya	MASJ	Jordan	31.7290N	35.7183E	822	From 1983-09-01
El Mayor	EMX	Baja California,Mexico	31.9881N	115.2416W	10	From 1981-10-19
Elmendorf Base	EAFB	Alaska,U.S.A.	61.2335N	149.7718W	61	From 1994-06-24
Elmer	X32A	Oklahoma,U.S.A.	34.4214N	99.2854W	401	From 2009-10-25 to 2011-09-07
El Minia	TAMRE	Egypt	27.6821N	30.9175E	145	
El Mirage	ELMC	California,U.S.A.	34.5262N	117.6400W	986	
El Mirage 2	EL2	California,U.S.A.	34.5295N	117.5435W	1106	
Elmo	EO2TX	Texas,U.S.A.	32.6481N	96.1586W	158	
El Monte Cty Pk	EML	California,U.S.A.	32.8908N	116.8457W	161	
Elmore Ranch	ELRC	California,U.S.A.	33.1475N	115.8334W	-97	
Elmore Ranch	ERRC	California,U.S.A.	33.1168N	115.8227W	-56	
El Nido	ENPP	Palawan,Philippines	11.2060N	119.4250E	27	
Elora Gorge	ELGO	Ontario,Canada	43.6755N	80.4374W	377	
Elorza	ELOV	Venezuela	7.0010N	69.4830W	105	From 2003-04-03
Eloy	116A	Arizona,U.S.A.	32.5618N	111.7042W	477	From 2006-03-20 to 2008-12-05
Elp	ENV	Netherlands	52.8953N	6.6338E	17	
El Pangue	ELP	Valparaiso,Chile	33.2576S	71.2050W	680	From 1973-01-01
El Paso	EP-TX	Texas,U.S.A.	31.9328N	105.9667W	1615	From 1962-01-15 to 1962-05-04
El Paso	EPT	Texas,U.S.A.	31.7717N	106.5060W	1186	From 1961-02-01
El Paso	EP-	Texas,U.S.A.	31.9328N	105.9667W	1615	From 1962-01-15 to 1962-05-04
EL PAUJM	PAUV	Venezuela	10.1803N	67.2414W	1259	From 2004-07-15
El Pedregal	CO03	Coquimbo	30.8389S	70.6891W	1003	From 2014-02-11
El Pedroso, Sevilla	E019	Spain	37.7160N	5.8788W	125	From 2007-09-23 to 2009-06-16
Elp / Enerveen	ENV1	Netherlands	52.8944N	6.6337E	-33	From 2009-12-04
Elp / Enerveen	ENV2	Netherlands	52.8944N	6.6337E	-83	From 2009-12-04
Elp / Enerveen	ENV3	Netherlands	52.8944N	6.6337E	-133	From 2009-12-04
Elp / Enerveen	ENV4	Netherlands	52.8944N	6.6337E	-183	From 2009-12-04
El Pino	IIP	Mexico D.F.,Mexico	19.3469N	98.9180W	2650	
El Pocito	PEZE	Costa Rica	9.3826N	83.6775W	807	
El Prado	PRAV	Venezuela	9.2327N	70.8507W	662	
El Quisco	ELQ	Valparaiso,Chile	33.3953S	71.6889W	50	From 1973-01-01 to 1975-03-28
El Recreo	RREF	Colombia	4.9010N	75.3470W	4743	
El Retiro	RTR	El Salvador	13.8972N	89.6457W	1499	
El Rito	U23A	New Mexico,U.S.A.	36.3289N	106.1919W	2093	From 2008-05-21 to 2010-04-06
El Roble	ROCH	Santiago,Chile	32.9719S	71.0111W	2000	From 1981-12-04
El Roble	ROC1	Santiago,Chile	32.9759S	71.0156W	2191	
El Rosal	ROSC	Colombia	4.8400N	74.3200W	2987	From 1994-01-01
EL ROSAL, CUNDINAMARCA	CROSA	Colombia	4.8480N	74.3210W	2987	From 1994-07-08
El Salvador	ESC	Atacama,Chile	26.2300S	69.5100W	4700	
El Segundo	ESGS	California,U.S.A.	33.9163N	118.4200W	-100	From 1982-04-01
Elsinore Mountain	ELS	California,U.S.A.	33.6478N	117.4270W	853	
El Sosneado	COIS	Mendoza,Argentina	35.1080S	69.5937W	500	From 2012-01-01
El Tejon	TEJ	California,U.S.A.	35.2298N	118.6890W	634	
El Tigre	TGRV	Venezuela	8.8340N	64.1683W	293	From 1992-11-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
El Tocuyo	TOV	Venezuela	9.7925N	69.7926W	650	
Eltopia	ET3	Washington,U.S.A.	46.5773N	118.9375W	286	From 1990-09-12
Eltopia	ETP	Washington,U.S.A.	46.4648N	119.0590W	219	From 1969-03-01
Eltopia	ET2	Washington,U.S.A.	46.5350N	118.9500W	330	From 1989-04-05 to 2001-11-01
El Transito	AC05	Atacama	28.8364S	70.2738W	1287	From 2014-02-09
Eltsovka	ELT	Altayskiy Kray,Russia	53.2614N	86.2387E	235	From 1981-06-01
Eltsovka	ELT0	Altayskiy Kray,Russia	53.2559N	86.2745E	217	From 1962-07-05 to 1968-01-01
Elvey	ELV	Alaska,U.S.A.	64.8603N	147.8490W	180	From 1971-08-01 to 1972-08-31
El Viejo	A495	Costa Rica	10.3925N	85.4560W	0	From 2000-01-01
El Vigia	EVV	Veracruz,Mexico	18.4565N	95.3493W		From 1988-01-01
El Vigia	VIGV	Venezuela	8.8400N	71.3642W	417	
El Volcan	VOLV	Venezuela	10.4200N	66.8498W	1480	
Ely	EY-	Nevada,U.S.A.	39.4100N	115.3128W	2012	From 1963-04-21 to 1963-06-10
Ely	EY-NV	Nevada,U.S.A.	39.4100N	115.3128W	2012	From 1963-04-21 to 1963-06-10
Ely	EYMN	Minnesota,U.S.A.	47.9462N	91.4950W	475	From 1994-09-26
Ely	EY2NV	Nevada,U.S.A.	39.4314N	115.3178W	2012	From 1966-03-01 to 1966-03-12
Ely	EY2	Nevada,U.S.A.	39.4314N	115.3178W	2012	From 1966-03-01 to 1966-03-12
Ely	ELY	Nevada,U.S.A.	39.1313N	114.8920W	2011	
El Yeso	YECH	Santiago,Chile	33.6653S	70.0834W	2577	From 2006-04-21
Elyria	M51A	Ohio,U.S.A.	41.3321N	82.1831W	239	From 2012-08-29
El Yunque	EYP	Puerto Rico	18.3127N	65.7911W	1060	From 1975-07-30 to 1976-08-09
El Zacaton	ZAX	Baja California,Mexico	31.5137N	116.2730W	947	
Emae	EME	Vanuatu	17.0908S	168.3510E		
Emamgholi	IEMG	Iran	37.4155N	58.6522E	2565	From 1997-03-01
Embalse de El Pintado, Sevilla	E018	Spain	37.9803N	5.9548W	392	From 2007-09-16 to 2009-06-17
Embalse del Gaudalen, Jaen	E932	Spain	38.1496N	3.4708W	418	From 2009-02-12 to 2009-09-15
Embarrass	C37A	Minnesota,U.S.A.	47.7283N	92.1853W	447	From 2010-09-17 to 2012-08-14
Embd, Mattertal	EMBD	Switzerland	46.2165N	7.8322E	1180	From 2009-10-29
Emei	LIOB	Taiwan region	24.6456N	121.0156E	330	From 2002-12-12
Emerald Bay	EMB	California,U.S.A.	38.9747N	120.1027W	2122	
Emergency Operations Center, State Capitol Campus, Salt Lake City, UT, USA	EOC	Utah,U.S.A.	40.7770N	111.8891W	1356	From 2012-05-01
Emergency Operations Facility	EFD	California,U.S.A.	35.3205N	120.7250W	95	
Emma Park	EMUT	Utah,U.S.A.	39.8140N	110.8150W	2268	
Emmet	BEMM	California,U.S.A.	36.6613N	121.0960W	488	From 1970-08-14
Emmet	EMT	California,U.S.A.	36.6613N	121.0960W	488	From 1970-08-14
Emmethof	EMMET	Switzerland	47.4375N	8.0134E	700	From 2012-10-29
Emmingen-Liptingen DE	EMING	Switzerland	47.8928N	8.8425E	638	From 2013-04-29
Emosson	EMO	Switzerland	46.0482N	6.9620E	1800	From 1973-09-01 to 1980-12-31
Emosson-Mur	EMS	Switzerland	46.0700N	6.9310E	1800	From 1981-01-01 to 2002-01-02
Emosson Staumauer, Bunker	SEMOS	Switzerland	46.0678N	6.9352E	1950	From 2012-11-20
Empire Grade Rd	LT11	California,U.S.A.	37.0352N	122.1040W	442	From 1969-03-04 to 1976-04-30
Empire Grade Road	EGR	California,U.S.A.	37.0352N	122.1040W	442	From 1969-03-04 to 1976-04-30
Emporia	EM-KA	Kansas,U.S.A.	38.5247N	96.4728W	411	From 1965-09-14 to 1965-09-16
Emporia	EM-	Kansas,U.S.A.	38.5247N	96.4728W	411	From 1965-09-14 to 1965-09-16
Emporia	EMK	Kansas,U.S.A.	38.4465N	96.3172W	370	From 1977-08-15 to 2001-07-15
Emporia Municipal Airport, Emporia	R35A	Kansas,U.S.A.	38.3231N	96.1988W	365	From 2010-05-18 to 2012-03-15
Emporium	M56A	Pennsylvania,U.S.A.	41.4837N	78.1826W	493	From 2013-05-20
Encino	035A	Texas,U.S.A.	26.9379N	98.1023W	29	From 2010-01-12 to 2011-11-14
Ende, Flores	EDFI	Flores,Indonesia	8.7497S	121.6903E	914	From 2008-12-01
Endenburg	ENDD	Baden-Wurttemberg,Germany	47.7150N	7.7379E	635	From 1984-12-01
Endilloe	EDO	South Australia,Australia	32.3217S	138.0483E	300	From 1977-01-01
Endulen Rd	ENDA	Tanzania,United Republic of Tanzania	3.3762S	35.3372E	1067	
Enez	ENEZ	Turkey	40.7362N	26.1530E	101	From 2006-06-21
Engebretsen Ranch, Morrill	L25A	Nebraska,U.S.A.	42.1548N	103.9657W	1379	From 2008-11-22 to 2010-10-07
Enggano, Bengkulu	EGSI	Sumatera,Indonesia	5.3526S	102.2767E	35	From 2008-12-01
Engineer Hill	ENG	Alaska,U.S.A.	64.7352N	147.0460W	220	From 1971-09-07 to 1976-06-30
Engine Test Stand	ETS	Nevada,U.S.A.	36.8325N	116.3090W	1158	From 1965-01-01 to 1970-12-31
English Bluff	ENGB	British Columbia,Canada	49.0080N	123.0889W	55	
Engstlatt	ENGD	Baden-Wurttemberg,Germany	48.3125N	8.8729E	538	From 1982-01-01
Enilchek, Kyrgyzstan	ENEL	Kyrgyzstan	42.1529N	79.4550E	2739	From 2008-09-22
Eniwetok	EW-IS	Marshall Islands	11.3972N	162.3753E	3	From 1963-06-28 to 1963-09-13
Eniwetok	EW-	Marshall Islands	11.3972N	162.3753E	3	From 1963-06-28 to 1963-09-13
Eniwo	JEW	Ishikari,Japan	42.8402N	141.4498E	185	From 1995-02-01
Ennepetalsperre	ENTS	Nordrhein-Westfalen,Germany	51.2414N	7.4108E	300	From 2000-10-01
Ennis	136A	Texas,U.S.A.	32.4746N	96.5297W	113	From 2010-06-06 to 2012-01-19
Ens	RESF	Midi-Pyrenees,France	42.8077N	0.3385E	1270	From 1998-09-01
Ens	ENSF	Midi-Pyrenees,France	42.8047N	0.3356E	1300	
Ensenada	ENX	Baja California,Mexico	31.8835N	116.6626W	230	From 1981-08-03
Ensenada	ECX	Baja California,Mexico	31.8690N	116.6600W		
Enshi	ENH	Hubei,China	30.2718N	109.4870E	487	From 1986-01-01
Enta	IENT	Iceland	63.7010N	19.1823W	1355	From 2011-12-15
Entebbe	ENT	Uganda	0.0589N	32.4733E	1175	
Entiat	ETW	Washington,U.S.A.	47.6045N	120.3310W	1475	From 1986-10-01
Entracque	ENR	Italy	44.2267N	7.4203E	1040	From 1967-01-01
Entre Lagos	PUYE	Chile	40.6839S	72.6034W	209	
Enumclaw	D05A	Washington,U.S.A.	47.1881N	121.9888W	266	From 2005-11-21 to 2008-12-03
Enzan	ENZ	Yamanashi,Japan	35.7360N	138.8053E	807	
EOS1	EOS1	Taiwan region	24.5494N	122.1284E	-278	From 2011-09-22
Eparoz	IEPA	Spain	42.7794N	1.2669W	769	From 2008-07-18
Epen	ENN	Netherlands	50.7672N	5.9233E	120	From 1981-01-01 to 1996-02-27
Ephrata	EPW	Washington,U.S.A.	47.3522N	119.5960W	628	From 1975-06-01
Ephrata	EPH	Washington,U.S.A.	47.3536N	119.5960W	628	From 1983-03-01
Epi	EPI	Vanuatu	16.6950S	168.1160E		
Epidavros	EPID	Greece	37.6144N	23.1189E	444	From 2010-10-08
EPN Laboratorio de Estructuras	EPNL	Ecuador	0.2120S	78.4917W	2822	From 2010-08-24
Equi	EQUI	Italy	44.1660N	10.1530E	350	From 2012-05-14
Erbaa	ERBA	Turkey	40.6814N	36.7547E	655	From 2008-03-24
ERCIS-VAN	ERCV	Turkey	39.0198N	43.3380E	1681	From 2011-10-28
Erciyes	ERCT	Turkey	38.6031N	35.5142E	1915	From 1993-08-28 to 1998-05-01
Erdek	ERD	Turkey	40.4000N	27.8000E		From 1970-01-01 to 1972-12-31
Erdemli	MEST	Turkey	36.5869N	34.1453E	855	From 2003-12-12
Eremo	ERBM	Italy	44.4192N	10.4128E	919	
Erenkoy	EREN	Cyprus	35.5300N	34.1700E	88	
Eretria	ERET	Greece	38.4423N	23.8064E	810	From 2008-12-23
Eretria	EREA	Greece	38.4199N	23.9318E	475	From 2010-06-16
Erewhon	EWZ	South Island,New Zealand	43.5100S	170.8526E	650	From 1991-03-21 to 2001-07-03
Erian - IBB Gov. - Yemen	ERIN	Yemen	14.2300N	44.2300E	1600	From 1997-01-15 to 2005-10-22
Erice	ERC	Sicily,Italy	38.0376N	12.5873E	776	From 1978-02-01
Erice	ER1	Sicily,Italy	38.0376N	12.5873E	776	From 1978-02-01
Erie	ERP	Pennsylvania,U.S.A.	42.1333N	79.9833W		
Erie	ERPA	Pennsylvania,U.S.A.	42.1175N	79.9891W	306	From 2004-03-19
Erikli-Kesan	ERIK	Turkey	40.6708N	26.5132E	41	From 2008-07-02
Erimo	ERM	Hidaka,Japan	42.0150N	143.1571E	40	From 1976-07-01
Erimo	JEM	Hidaka,Japan	42.0158N	143.1573E	40	
Erithrai	VTH	Greece	38.2006N	23.3600E	756	From 1982-10-01
Erkin-Say	EKS2	Kyrgyzstan	42.6615N	73.7772E	1360	
Erkin-Say	EKS	Kyrgyzstan	42.6680N	73.7860E	1180	
Erlin	RLNB	Taiwan region	23.8911N	120.3594E	-60	From 2004-06-25
Ermenek	ERMK	Turkey	36.6416N	32.9128E	1855	From 2005-02-28
Ernestine	ERN	Alaska,U.S.A.	61.4442N	145.1120W	570	From 1971-09-16 to 1973-08-29
Ernies Place	ERPC	California,U.S.A.	32.7435N	115.6630W	-9	
EROS Data Center, Sioux Falls	ECSD	South Dakota,U.S.A.	43.7337N	96.6141W	478	From 2006-05-17
Erpfingen	ERPF	Baden-Wurttemberg,Germany	48.3447N	9.1744E	839	From 2010-03-01
Err	ERR	Morocco	32.3800N	6.3230W		From 1995-12-16
Errachidia	ZFT	Morocco	32.0340N	4.3520W	1800	From 1993-01-01
Er Rumman	RUMJ	Jordan	32.1820N	35.8275E	445	From 1983-09-01
Erto-Casso	ERT	Italy	46.2767N	12.3767E	775	From 1982-11-24 to 1988-01-01
Ertsjaerv	ERTU	Sweden	66.5541N	22.1895E	300	From 2004-04-17
Erzin	ERNS	Tyva,Russia	50.2630N	95.1550E	1105	
Erzincan	KRDT	Turkey	39.9167N	39.1183E	2810	From 1998-09-30 to 2003-08-14
Erzincan	EZC	Turkey	39.7520N	39.3533E	1500	From 1993-08-27
Erzincan	ERZN	Turkey	39.5866N	39.7220E	1310	From 2008-10-15
Erzurum	ERZ	Turkey	39.9150N	41.2767E	1850	From 1966-08-06
Erzurum	EZM	Turkey	39.9053N	41.3623E	2400	
Erzurum	ERZM	Turkey	39.9053N	41.3658E	2380	From 1996-01-01
Erzurum	ERZT	Turkey	39.9067N	41.2533E	1955	
Erzurum,Aziziye	EMRE	Turkey	40.0302N	40.9762E	2066	From 2013-09-24
Erzurum-¯spir	KRIK	Turkey	40.3374N	40.9271E	2025	From 2013-03-18
Erzurum, Merkez	ATA5	Turkey	39.9046N	41.2448E	1860	From 2014-02-28

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Erzurum, Palandoken	EJDE	Turkey	39.8337N	41.3035E	3151	From 2013-11-07
Erzyncan	ERZC	Turkey	39.7242N	39.5258E	1170	From 1998-01-01 to 1998-09-29
Esa-ala	ESA	D'Entrecasteaux Islands,Papua New Guinea	9.7384S	150.8140E	46	From 1965-01-01
Esa-ala	ESB	D'Entrecasteaux Islands,Papua New Guinea	9.6867S	150.9030E	60	From 1974-01-01
Esan	ESH	O shima,Japan	41.8842N	141.0112E	40	From 1976-07-01
Esanatoglia	SNTG	Italy	43.2550N	12.9406E	625	
Escape Road	ESR	Hawaii,U.S.A.	19.4113N	155.2390W	1177	From 1971-09-01
ESCO Site	ESCO	Democratic Republic of the Congo	1.6340S	29.1590E	1480	
Escot	ESCF	Aquitaine,France	43.0785N	0.5747W	570	
Escuela Geologia	SJS	Costa Rica	9.9392N	84.0542W	1196	
EscuelaIngenieria	EDC*	Santiago,Chile	33.4592S	70.6678W		
Escuela - Rosario de la Frontera	AERF	Salta,Argentina	25.7975S	64.9716W	800	From 1995-09-22
Esen Bulak	EBM	Mongolia	46.3900N	96.2600E	2160	
Esenkoy-Cinarcik-Yalova	SBT5	Turkey	40.6311N	28.8803E	-368	From 2010-06-09
Esentepe	ESE	Turkey	40.7556N	30.3242E	197	From 1991-01-01
Eskdalemuir	EKG	Scotland,United Kingdom	55.3339N	3.1923W	356	From 2002-11-12
Eskdalemuir	ESK	Scotland,United Kingdom	55.3167N	3.2050W	263	From 1964-03-19
Eskdalemuir	EKB	Scotland,United Kingdom	55.3339N	3.1923W	307	
Eskdalemuir Array	EKA	Scotland,United Kingdom	55.3331N	3.1592W	263	From 1962-05-01
Eskdalemuir Array Site B1	EKB1	Scotland,United Kingdom	55.3093N	3.1770W	274	
Eskdalemuir Array Site B10	EKB10	Scotland,United Kingdom	55.3769N	3.1292W	328	
Eskdalemuir Array Site B2	EKB2	Scotland,United Kingdom	55.3168N	3.1717W	313	
Eskdalemuir Array Site B3	EKB3	Scotland,United Kingdom	55.3249N	3.1682W	306	
Eskdalemuir Array Site B4	EKB4	Scotland,United Kingdom	55.3317N	3.1612W	300	
Eskdalemuir Array Site B5	EKB5	Scotland,United Kingdom	55.3393N	3.1563W	313	
Eskdalemuir Array Site B6	EKB6	Scotland,United Kingdom	55.3466N	3.1506W	337	
Eskdalemuir Array Site B7	EKB7	Scotland,United Kingdom	55.3541N	3.1454W	435	
Eskdalemuir Array Site B8	EKB8	Scotland,United Kingdom	55.3618N	3.1397W	400	
Eskdalemuir Array Site B9	EKB9	Scotland,United Kingdom	55.3690N	3.1348W	395	
Eskdalemuir Array Site R1	EKR1	Scotland,United Kingdom	55.3374N	3.1786W	355	
Eskdalemuir Array Site R10	EKR10	Scotland,United Kingdom	55.3104N	3.0609W	382	
Eskdalemuir Array Site R2	EKR2	Scotland,United Kingdom	55.3344N	3.1656W	349	
Eskdalemuir Array Site R3	EKR3	Scotland,United Kingdom	55.3306N	3.1530W	319	
Eskdalemuir Array Site R4	EKR4	Scotland,United Kingdom	55.3284N	3.1394W	336	
Eskdalemuir Array Site R5	EKR5	Scotland,United Kingdom	55.3254N	3.1263W	306	
Eskdalemuir Array Site R6	EKR6	Scotland,United Kingdom	55.3224N	3.1132W	394	
Eskdalemuir Array Site R7	EKR7	Scotland,United Kingdom	55.3194N	3.1001W	348	
Eskdalemuir Array Site R8	EKR8	Scotland,United Kingdom	55.3163N	3.0868W	419	
Eskdalemuir Array Site R9	EKR9	Scotland,United Kingdom	55.3137N	3.0732W	431	
Eskilstuna	ESKU	Sweden	59.2311N	16.3938E	50	From 2002-01-19
Eskisehir	ESKT	Turkey	39.5200N	30.8500E	1289	
Eskisehir	BORA	Turkey	39.8801N	30.4534E	960	From 2005-08-04
Eski¨ehir/Seyitgazi-Do¨an^§ay¨–r	SGAZ	Turkey	39.5293N	30.8387E	958	From 2014-11-24
Eskiyayla	EYL	Turkey	40.5658N	30.1250E	1160	From 1990-01-01
Eskypehyr	SEYT	Turkey	39.5200N	30.8500E	1172	From 1998-01-01
Esma-Masafi	MSFE	United Arab Emirates	25.3596N	56.1595E	524	
Espanola	ES-ON	Ontario,Canada	46.3189N	81.7928W	274	From 1962-11-12 to 1962-12-07
Espanola	ES-	Ontario,Canada	46.3189N	81.7928W	274	From 1962-11-12 to 1962-12-07
Espargos	SLES	Cape Verde Islands	16.7300N	22.9300W	67	From 2012-10-17
Esparros	EPF	Aquitaine,France	43.0308N	0.3400E	750	From 1977-07-07
Esparros	PYF	Aquitaine,France	43.0308N	0.3400E	750	From 1977-07-07
Esparza	EPA	Costa Rica	9.9877N	84.5965W	310	From 1984-03-17
Espegrend	EGD	Norway	60.2712N	5.2257E	20	From 1991-03-01
Espenschied	ESP	Hessen,Germany	50.0992N	7.8932E	398	
Espera	ESPR	Spain	36.8686N	5.8562W	135	
Esperanza - Manati, PR	EMPR	Puerto Rico	18.4770N	66.5296W	9	From 2011-07-01
Espira	FESP	Midi-Pyrenees,France	42.8199N	2.8222E	240	From 2008-10-01
Espiye-Giresun	ESPY	Turkey	40.9167N	38.7273E	430	From 2007-03-02
Espot	ESPO	Spain	42.5785N	1.1197E	1440	
Esso	ESO	Kamchatskaya Oblast',Russia	55.9250N	158.7000E	490	
Esso	ES2	Kamchatskaya Oblast',Russia	55.9150N	158.6830E	65	
Estacion Bilbao	BIL2	Ecuador	1.4553S	78.5025W	2381	From 2007-08-22
Estacion Edusismo	QTOE	Ecuador	0.1722S	78.4889W	2777	From 2007-01-01
Estacion Juarez	EJC	Chiapas,Mexico	17.6044N	93.1956W		
Estancia	EST	New Mexico,U.S.A.	34.8645N	105.7230W	2055	From 1976-06-01
Estanollee	X53A	Georgia,U.S.A.	34.5031N	83.3013W	240	From 2012-04-11
Esteban Cantu	ECNX	Baja California,Mexico	31.6570N	116.5978W	1040	
Esteli@15	ESTN	Nicaragua	13.1017N	86.3692W	862	
Estepa	ESTP	Spain	37.2713N	4.8662W	893	
Estepona	EXES	Spain	36.4230N	5.1520W	13	
Esterri de Cardos	CEST	Spain	42.6005N	1.2553E	1325	From 2006-06-01
Estevan Point	ETB	British Columbia,Canada	49.3763N	126.5380W	1	
E St Louis HE Ctr	STIL	Missouri,U.S.A.	38.6205N	90.1626W	131	
Estremoz	PESTR	Portugal	38.8672N	7.5902W	410	From 2006-07-01
Esutoru	ESU	Sakhalinskaya Oblast',Russia	49.0833N	142.0330E		
Eten	CHP7	Peru	6.9450S	79.8650W	200	
Ethiopia-Afar Geoscientific Lithospheric Experiment	KOTE	Ethiopia	9.3875N	39.3961E	2872	
Ethiopia-Afar Geoscientific Lithospheric Experiment	MECE	Ethiopia	8.5938N	40.3241E	1775	
Ethiopia-Afar Geoscientific Lithospheric Experiment	GTFE	Ethiopia	9.0034N	39.8376E	1036	
Ethiopia-Afar Geoscientific Lithospheric Experiment	DIKE	Ethiopia	8.0627N	39.5566E	2754	
Ethiopia-Afar Geoscientific Lithospheric Experiment	MEKE	Ethiopia	8.1623N	38.8330E	1897	
Ethiopia-Afar Geoscientific Lithospheric Experiment	MIEE	Ethiopia	9.2416N	40.7581E	1349	
Ethiopia-Afar Geoscientific Lithospheric Experiment	ADUE	Ethiopia	8.5404N	38.9019E	1750	
Ethiopia-Afar Geoscientific Lithospheric Experiment	WOLE	Ethiopia	8.5339N	37.9822E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	NURE	Ethiopia	8.7012N	39.7955E	1182	
Ethiopia-Afar Geoscientific Lithospheric Experiment	AREEX	Ethiopia	8.9385N	39.4188E	1826	
Ethiopia-Afar Geoscientific Lithospheric Experiment	ASEE	Ethiopia	7.9729N	39.1317E	2333	
Ethiopia-Afar Geoscientific Lithospheric Experiment	BORE	Ethiopia	8.7459N	39.5540E	1253	
Ethiopia-Afar Geoscientific Lithospheric Experiment	SENE	Ethiopia	9.1466N	39.0166E	2560	
Ethiopia-Afar Geoscientific Lithospheric Experiment	LEME	Ethiopia	8.6115N	38.6095E	2108	
Ethiopia-Afar Geoscientific Lithospheric Experiment	ANKE	Ethiopia	9.5927N	39.7339E	2981	
Ethiopia-Afar Geoscientific Lithospheric Experiment	BEDE	Ethiopia	8.9086N	40.7710E	1714	
Ethiopia-Afar Geoscientific Lithospheric Experiment	SHEE	Ethiopia	9.9996N	39.8946E	1298	
Ethiopia-Afar Geoscientific Lithospheric Experiment	DZEE	Ethiopia	8.7803N	38.9959E	1907	
Ethiopia-Afar Geoscientific Lithospheric Experiment	CHAE	Ethiopia	9.3118N	38.7624E	2646	
Ethiopia-Afar Geoscientific Lithospheric Experiment	MELE	Ethiopia	9.3106N	40.2008E	762	
Ethiopia-Afar Geoscientific Lithospheric Experiment	AWAE	Ethiopia	8.9895N	40.1659E	956	
Ethiopia-Afar Geoscientific Lithospheric Experiment	ADEE	Ethiopia	7.7909N	39.9068E	2485	
Ethiopia-Afar Geoscientific Lithospheric Experiment	DONE	Ethiopia	8.5090N	39.5504E	1312	
Ethiopia-Afar Geoscientific Lithospheric Experiment	AMME	Ethiopia	8.3031N	39.0934E	1670	
Ethiopia-Afar Geoscientific Lithospheric Experiment	INEE	Ethiopia	9.8954N	39.1431E	2686	
Ethiopia-Afar Geoscientific Lithospheric Experiment	GEWE	Ethiopia	10.0060N	40.5743E	600	
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10001	Ethiopia	9.9845N	38.2801E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10008	Ethiopia	9.9318N	38.3222E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10011	Ethiopia	9.9106N	38.3419E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10012	Ethiopia	9.9029N	38.3471E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10014	Ethiopia	9.8891N	38.3613E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10016	Ethiopia	9.8712N	38.3704E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10017	Ethiopia	9.8633N	38.3757E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10018	Ethiopia	9.8552N	38.3819E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10019	Ethiopia	9.8456N	38.3791E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10020	Ethiopia	9.8365N	38.3820E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10021	Ethiopia	9.8293N	38.3897E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10022	Ethiopia	9.8235N	38.3987E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10023	Ethiopia	9.8152N	38.4045E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10024	Ethiopia	9.8103N	38.4071E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10026	Ethiopia	9.8005N	38.4165E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10027	Ethiopia	9.7940N	38.4319E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10028	Ethiopia	9.7870N	38.4380E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10030	Ethiopia	9.7773N	38.4588E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10037	Ethiopia	9.7380N	38.5142E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10042	Ethiopia	9.6897N	38.5300E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10046	Ethiopia	9.6577N	38.5177E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10054	Ethiopia	9.6150N	38.5853E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10062	Ethiopia	9.5487N	38.5824E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10069	Ethiopia	9.4889N	38.5840E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10077	Ethiopia	9.4399N	38.6462E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10078	Ethiopia	9.4311N	38.6523E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E10079	Ethiopia	9.4208N	38.6553E		

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1108	Ethiopia	9.3667N 38.6711E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1108	Ethiopia	9.3391N 38.6930E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1109	Ethiopia	9.3062N 38.7293E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1109	Ethiopia	9.3025N 38.7516E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1110	Ethiopia	9.2831N 38.7820E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1110	Ethiopia	9.2595N 38.8064E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1111	Ethiopia	9.2552N 38.8513E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1111	Ethiopia	9.2176N 38.8727E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1111	Ethiopia	9.1989N 38.9238E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1814N 38.9275E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1743N 38.9325E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1662N 38.9374E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1603N 38.9452E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1536N 38.9528E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1478N 38.9611E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1112	Ethiopia	9.1357N 38.9622E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1113	Ethiopia	9.1116N 38.9875E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1113	Ethiopia	9.1282N 38.9986E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1113	Ethiopia	9.1313N 39.0029E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1113	Ethiopia	9.1189N 39.0490E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1114	Ethiopia	9.0946N 39.0664E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1114	Ethiopia	9.0560N 39.0930E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1115	Ethiopia	9.0196N 39.1200E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1116	Ethiopia	8.9825N 39.1244E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1115	Ethiopia	8.9679N 39.1301E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1115	Ethiopia	8.9697N 39.1386E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1116	Ethiopia	8.9301N 39.1470E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1117	Ethiopia	8.9084N 39.2359E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1117	Ethiopia	8.9010N 39.2419E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1117	Ethiopia	8.8738N 39.2631E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1117	Ethiopia	8.8637N 39.2567E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1117	Ethiopia	8.8539N 39.2494E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1117	Ethiopia	8.8447N 39.2442E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1118	Ethiopia	8.8353N 39.2471E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1118	Ethiopia	8.8282N 39.2529E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1118	Ethiopia	8.8183N 39.2546E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1118	Ethiopia	8.8107N 39.2600E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1118	Ethiopia	8.7879N 39.2743E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1118	Ethiopia	8.7696N 39.2749E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1119	Ethiopia	8.7544N 39.2798E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1119	Ethiopia	8.7499N 39.2884E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1119	Ethiopia	8.7158N 39.3380E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1119	Ethiopia	8.7087N 39.3427E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1119	Ethiopia	8.7053N 39.3603E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1120	Ethiopia	8.7112N 39.3783E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1120	Ethiopia	8.6983N 39.4005E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1121	Ethiopia	8.6210N 39.4402E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1121	Ethiopia	8.6142N 39.4545E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1121	Ethiopia	8.6058N 39.4518E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1121	Ethiopia	8.5958N 39.4545E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1121	Ethiopia	8.5801N 39.4548E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1122	Ethiopia	8.5289N 39.4794E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1123	Ethiopia	8.4971N 39.4660E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1123	Ethiopia	8.4882N 39.4628E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1123	Ethiopia	8.4786N 39.4597E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1123	Ethiopia	8.4683N 39.4636E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1125	Ethiopia	8.4572N 39.5926E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1125	Ethiopia	8.4177N 39.6326E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1126	Ethiopia	8.3894N 39.6572E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1126	Ethiopia	8.3633N 39.6719E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1127	Ethiopia	8.3269N 39.6711E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1127	Ethiopia	8.2853N 39.6596E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1127	Ethiopia	8.2712N 39.6898E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1128	Ethiopia	8.2488N 39.6946E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1128	Ethiopia	8.2122N 39.6980E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1128	Ethiopia	8.1799N 39.7123E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1129	Ethiopia	8.1775N 39.7186E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1129	Ethiopia	8.1272N 39.7164E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1130	Ethiopia	8.0962N 39.6904E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1130	Ethiopia	8.0741N 39.6860E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1130	Ethiopia	8.0316N 39.6884E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1131	Ethiopia	8.0160N 39.6868E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1131	Ethiopia	8.0067N 39.6849E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1131	Ethiopia	7.9882N 39.6861E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1131	Ethiopia	7.9763N 39.6889E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1131	Ethiopia	7.9790N 39.7160E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1131	Ethiopia	7.9734N 39.7244E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9671N 39.7338E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9563N 39.7394E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9471N 39.7438E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9340N 39.7520E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9115N 39.7699E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9049N 39.7769E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1132	Ethiopia	7.9015N 39.7844E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1133	Ethiopia	7.8917N 39.7894E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1133	Ethiopia	7.8840N 39.7944E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1133	Ethiopia	7.8732N 39.8074E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1133	Ethiopia	7.8654N 39.8120E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1133	Ethiopia	7.8508N 39.8356E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1134	Ethiopia	7.8338N 39.8570E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1134	Ethiopia	7.8277N 39.8648E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1134	Ethiopia	7.8059N 39.8842E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1134	Ethiopia	7.7984N 39.8896E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1134	Ethiopia	7.7950N 39.8979E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1134	Ethiopia	7.7822N 39.9192E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7810N 39.9368E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7768N 39.9455E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7724N 39.9544E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7659N 39.9611E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7539N 39.9743E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7457N 39.9814E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1135	Ethiopia	7.7360N 39.9921E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1136	Ethiopia	7.7259N 40.0091E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1136	Ethiopia	7.7272N 40.0575E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1136	Ethiopia	7.7252N 40.0676E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1137	Ethiopia	7.7060N 40.1015E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1137	Ethiopia	7.7068N 40.1353E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1137	Ethiopia	7.6889N 40.1664E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1138	Ethiopia	7.3815N 40.0146E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1138	Ethiopia	7.3812N 40.0223E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1138	Ethiopia	7.3837N 40.0420E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1139	Ethiopia	7.3861N 40.0815E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1139	Ethiopia	7.3886N 40.1083E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1139	Ethiopia	7.3868N 40.1252E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1140	Ethiopia	7.3826N 40.1661E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1140	Ethiopia	7.3718N 40.1924E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1140	Ethiopia	7.3791N 40.2298E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1141	Ethiopia	7.3579N 40.2559E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1141	Ethiopia	7.3406N 40.2609E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1141	Ethiopia	7.3232N 40.2640E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1141	Ethiopia	7.3163N 40.2653E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1143	Ethiopia	7.2252N 40.4086E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1143	Ethiopia	7.2309N 40.4216E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E1144	Ethiopia	7.2592N 40.4743E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E2221	Ethiopia	8.4083N 39.3809E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E2221	Ethiopia	8.4160N 39.3863E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E2221	Ethiopia	8.4352N 39.4053E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E2222	Ethiopia	8.4437N 39.4265E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E2222	Ethiopia	8.4473N 39.4356E		

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222222	Ethiopia	8.4537N 39.4412E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222223	Ethiopia	8.4608N 39.4459E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222442	Ethiopia	8.5310N 39.6357E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222555	Ethiopia	8.6169N 39.7147E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222566	Ethiopia	8.6251N 39.7220E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222700	Ethiopia	8.7126N 39.8146E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222822	Ethiopia	8.8415N 39.8276E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222844	Ethiopia	8.8622N 39.8311E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222855	Ethiopia	8.8699N 39.8348E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222866	Ethiopia	8.8787N 39.8395E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222888	Ethiopia	8.9004N 39.8422E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222911	Ethiopia	8.9347N 39.8425E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222922	Ethiopia	8.9461N 39.8405E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222933	Ethiopia	8.9596N 39.8395E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222944	Ethiopia	8.9728N 39.8376E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222955	Ethiopia	8.9853N 39.8359E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222966	Ethiopia	8.9960N 39.8369E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E222977	Ethiopia	9.0052N 39.8390E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223001	Ethiopia	9.0341N 39.8624E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223003	Ethiopia	9.0501N 39.8705E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223004	Ethiopia	9.0585N 39.8753E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223113	Ethiopia	9.1140N 39.9360E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223114	Ethiopia	9.1211N 39.9424E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223115	Ethiopia	9.1289N 39.9478E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223116	Ethiopia	9.1375N 39.9502E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223117	Ethiopia	9.1381N 39.9654E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223118	Ethiopia	9.1464N 39.9666E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223119	Ethiopia	9.1446N 39.9852E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223120	Ethiopia	9.1551N 39.9874E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223221	Ethiopia	9.1587N 39.9998E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223335	Ethiopia	9.1995N 40.1527E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223336	Ethiopia	9.2059N 40.1590E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223337	Ethiopia	9.2110N 40.1661E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223338	Ethiopia	9.2158N 40.1727E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223339	Ethiopia	9.2217N 40.1813E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223340	Ethiopia	9.2270N 40.1886E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223441	Ethiopia	9.2348N 40.1937E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223442	Ethiopia	9.2387N 40.1963E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223445	Ethiopia	9.2620N 40.2143E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223446	Ethiopia	9.2684N 40.2197E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223447	Ethiopia	9.2768N 40.2265E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223448	Ethiopia	9.2827N 40.2337E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223449	Ethiopia	9.2890N 40.2412E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223550	Ethiopia	9.2950N 40.2483E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223551	Ethiopia	9.3014N 40.2521E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223552	Ethiopia	9.3122N 40.2588E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223553	Ethiopia	9.3169N 40.2633E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223554	Ethiopia	9.3258N 40.2688E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223555	Ethiopia	9.3298N 40.2777E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223556	Ethiopia	9.3327N 40.2851E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223557	Ethiopia	9.3402N 40.2908E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223558	Ethiopia	9.3467N 40.2940E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223559	Ethiopia	9.3543N 40.3025E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223660	Ethiopia	9.3628N 40.3056E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223662	Ethiopia	9.3829N 40.3114E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223663	Ethiopia	9.3912N 40.3164E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223664	Ethiopia	9.3989N 40.3234E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223665	Ethiopia	9.4024N 40.3303E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223666	Ethiopia	9.4072N 40.3388E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223669	Ethiopia	9.4272N 40.3604E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223771	Ethiopia	9.4410N 40.3689E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223888	Ethiopia	9.6070N 40.4093E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E223946	Ethiopia	9.6749N 40.4409E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224225	Ethiopia	9.9548N 40.5346E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224228	Ethiopia	9.9843N 40.5433E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224300	Ethiopia	9.9993N 40.5563E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224311	Ethiopia	10.0065N 40.5679E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224322	Ethiopia	10.0131N 40.5799E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224333	Ethiopia	10.0215N 40.5871E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224344	Ethiopia	10.0295N 40.5973E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224377	Ethiopia	10.0558N 40.6225E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224411	Ethiopia	10.0942N 40.6377E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224449	Ethiopia	10.1850N 40.6458E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E224551	Ethiopia	10.2116N 40.6401E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231	Ethiopia	8.7774N 39.8644E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231005	Ethiopia	8.7062N 39.1952E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231007	Ethiopia	8.7400N 39.2184E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231110	Ethiopia	8.8089N 39.2790E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231144	Ethiopia	8.8937N 39.2718E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231116	Ethiopia	8.8349N 39.3179E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E231200	Ethiopia	8.9217N 39.3612E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232	Ethiopia	8.8473N 40.0089E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232005	Ethiopia	8.5746N 39.2167E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232007	Ethiopia	8.6364N 39.2331E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232009	Ethiopia	8.6872N 39.2605E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232112	Ethiopia	8.7816N 39.2994E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232113	Ethiopia	8.7827N 39.3278E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232144	Ethiopia	8.8009N 39.3395E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232118	Ethiopia	8.8719N 39.3942E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232221	Ethiopia	8.9198N 39.3957E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232224	Ethiopia	8.9690N 39.4533E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232225	Ethiopia	8.9828N 39.4685E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E232228	Ethiopia	9.0271N 39.5334E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E233	Ethiopia	8.9255N 39.9290E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E233010	Ethiopia	8.3064N 39.1021E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E233003	Ethiopia	8.2723N 39.1603E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E233004	Ethiopia	8.2542N 39.1722E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E233223	Ethiopia	8.2696N 39.6172E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E344	Ethiopia	7.2143N 38.5989E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E344004	Ethiopia	8.4369N 39.3198E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E344144	Ethiopia	8.1818N 39.2427E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355	Ethiopia	9.1336N 40.1681E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355118	Ethiopia	8.7897N 39.5794E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355200	Ethiopia	8.8460N 39.6028E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355211	Ethiopia	8.8670N 39.6103E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355223	Ethiopia	8.9172N 39.6368E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355224	Ethiopia	8.9302N 39.6506E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355225	Ethiopia	8.9445N 39.6694E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355227	Ethiopia	8.9498N 39.6902E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355228	Ethiopia	8.9535N 39.7111E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355229	Ethiopia	8.9553N 39.7217E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366	Ethiopia	9.1075N 40.0136E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366003	Ethiopia	8.6983N 39.5336E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366004	Ethiopia	8.7097N 39.5491E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366005	Ethiopia	8.7284N 39.5622E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366006	Ethiopia	8.7370N 39.5753E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366009	Ethiopia	8.7730N 39.6214E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366221	Ethiopia	8.7952N 39.5950E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377	Ethiopia	8.1744N 38.6964E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377001	Ethiopia	8.7519N 39.6672E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377002	Ethiopia	8.7305N 39.6766E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377004	Ethiopia	8.6967N 39.7088E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377006	Ethiopia	8.6668N 39.7481E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377113	Ethiopia	8.6022N 39.7792E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377144	Ethiopia	8.5848N 39.7906E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377155	Ethiopia	8.5690N 39.8019E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377266	Ethiopia	8.4714N 39.8093E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377229	Ethiopia	8.4320N 39.7420E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377330	Ethiopia	8.4161N 39.7241E		

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Ethiopia-Afar Geoscientific Lithospheric Experiment	E3738	Ethiopia	8.4074N	39.5713E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E3742	Ethiopia	8.5588N	39.5887E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E3743	Ethiopia	8.5774N	39.5989E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E339	Ethiopia	9.2415N	40.1334E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E340	Ethiopia	9.3616N	40.2172E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E341	Ethiopia	8.0096N	38.5325E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E342	Ethiopia	8.8790N	40.0961E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E343	Ethiopia	9.2549N	39.5022E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E344	Ethiopia	9.6722N	39.5249E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E345	Ethiopia	7.7881N	38.7948E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E346	Ethiopia	8.7090N	39.6909E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E347	Ethiopia	8.4649N	39.4532E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E348	Ethiopia	7.6239N	38.9907E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E349	Ethiopia	8.3144N	39.3212E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E350	Ethiopia	8.2739N	39.4958E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E351	Ethiopia	8.1485N	39.3478E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E352	Ethiopia	8.1380N	39.2405E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E353	Ethiopia	8.0433N	39.0114E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E354	Ethiopia	8.1182N	39.1385E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E355	Ethiopia	8.2950N	38.9492E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E356	Ethiopia	8.4622N	39.0637E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E357	Ethiopia	8.5848N	39.1320E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E358	Ethiopia	8.6909N	39.1826E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E359	Ethiopia	8.7059N	39.3516E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E360	Ethiopia	8.6215N	39.4488E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E361	Ethiopia	8.8974N	39.6229E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E363	Ethiopia	8.2600N	39.2359E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E364	Ethiopia	8.5680N	39.2907E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E366	Ethiopia	9.0326N	39.5300E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E367	Ethiopia	8.3844N	39.6810E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E368	Ethiopia	8.7821N	39.2628E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E369	Ethiopia	7.9296N	38.7216E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E370	Ethiopia	8.8823N	39.1544E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E371	Ethiopia	8.6935N	38.8955E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E372	Ethiopia	8.4871N	39.8329E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E373	Ethiopia	7.7375N	39.0262E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E374	Ethiopia	8.3564N	38.8456E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E375	Ethiopia	7.9141N	38.9512E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E376	Ethiopia	7.7245N	38.6537E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E377	Ethiopia	7.8643N	38.7914E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E378	Ethiopia	8.5931N	39.6977E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E379	Ethiopia	7.6294N	38.7056E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E380	Ethiopia	8.4781N	39.3106E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E382	Ethiopia	8.8459N	40.0096E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E383	Ethiopia	7.8019N	38.7919E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E384	Ethiopia	8.6983N	39.4005E		
Ethiopia-Afar Geoscientific Lithospheric Experiment	E385	Ethiopia	8.4572N	39.5926E		
Ethiopian Broadband Seismic Experiment	GOBAX	Ethiopia	7.0270N	39.9820E	2732	
Ethiopian Broadband Seismic Experiment	HIRN	Ethiopia	9.2224N	41.1059E	1816	
Ethiopian Broadband Seismic Experiment	DELE	Ethiopia	8.4393N	36.3259E	1969	
Ethiopian Broadband Seismic Experiment	BELAX	Ethiopia	6.9286N	38.4702E	1916	
Ethiopian Broadband Seismic Experiment	JIMA	Ethiopia	7.6840N	36.8310E	1664	
Ethiopian Broadband Seismic Experiment	TERC	Ethiopia	7.1446N	37.1747E	1390	
Ethiopian Broadband Seismic Experiment	WASH	Ethiopia	8.9895N	40.1659E	917	
Ethiopian Broadband Seismic Experiment	ARBA	Ethiopia	6.0672N	37.5564E	1273	
Ethiopian Broadband Seismic Experiment	HERO	Ethiopia	7.0263N	39.2769E	2374	
Ethiopian Broadband Seismic Experiment	HOSA	Ethiopia	7.5640N	37.8573E	2306	
Ethiopian Broadband Seismic Experiment	BDAR	Ethiopia	9.6721N	39.5254E	2802	
Ethiopian Broadband Seismic Experiment	WELK	Ethiopia	8.2946N	37.7818E	1896	
Ethiopian Broadband Seismic Experiment	DMRK	Ethiopia	10.3080N	37.7290E	2357	
Ethiopian Broadband Seismic Experiment	TEND	Ethiopia	11.7925N	41.0043E	419	
Ethiopian Broadband Seismic Experiment	NAZA	Ethiopia	8.5680N	39.2907E	1729	
Ethiopian Broadband Seismic Experiment	WANE	Ethiopia	10.1694N	40.6491E	606	
Ethiopian Broadband Seismic Experiment	DIYAX	Ethiopia	11.8343N	39.5956E	1922	
Ethiopian Broadband Seismic Experiment	FICH	Ethiopia	9.7822N	38.7372E	2825	
Ethiopian Broadband Seismic Experiment	CHEF	Ethiopia	6.1613N	38.2101E	1701	
Ethiopian Broadband Seismic Experiment	BAHI	Ethiopia	11.5743N	37.3934E	1793	
Ethiopian Broadband Seismic Experiment	GUDE	Ethiopia	8.9665N	37.7652E	2018	
Ethiopian Broadband Seismic Experiment	BIRH	Ethiopia	9.6723N	39.5253E	2805	
Ethiopian Broadband Seismic Experiment	KARAX	Ethiopia	10.4224N	39.9348E	1753	
Ethiopian Broadband Seismic Experiment	NEKE	Ethiopia	9.0890N	36.5235E	2080	
Ethiopian Broadband Seismic Experiment	BUTA	Ethiopia	8.1171N	38.3824E	2083	
Ethyl Lake Duckett	ELD	Alberta,Canada	54.5358N	110.3320W	564	From 1978-12-01
Etna Belvedere	EBEL	Sicily,Italy	37.7408N	15.0091E	2808	From 2004-09-14
Etna Monte Conca	EMCN	Italy	37.7912N	15.0335E	1911	From 2008-05-15
Etna Monte Frumento Supino	EMFS	Italy	37.7196N	14.9979E	2545	From 2004-07-20
Etowah	ETT	Tennessee,U.S.A.	35.3260N	84.4550W	588	From 1981-11-25
Etsaut	ETSF	Aquitaine,France	42.8986N	0.5592W	910	From 1996-04-03
Eue Claire	L46A	Michigan,U.S.A.	42.0127N	86.2955W	223	From 2012-09-08
Eugene	EUO	Oregon,U.S.A.	44.0294N	123.0689W	160	
Eugene	I03A	Oregon,U.S.A.	43.9726N	123.2777W	205	From 2005-11-18 to 2008-01-20
Eugowra	EUGM	New South Wales,Australia	33.4182S	148.3418E	290	
Eumseong	EMSB	Republic of Korea	36.9737N	127.6236E	207	From 2011-12-20
Eureka	F29A	South Dakota,U.S.A.	45.8336N	99.8273W	575	From 2009-08-21 to 2011-08-26
Eureka	EUNU	Nunavut,Canada	80.0533N	86.4158W	628	
Eureka	EUW	Washington,U.S.A.	46.3958N	118.5620W	367	From 1975-06-01
Eureka	EK-NV	Nevada,U.S.A.	39.2089N	115.7103W	1951	From 1963-11-11 to 1964-11-02
Eureka	EUR	Nevada,U.S.A.	39.4833N	115.9700W	2178	From 1958-05-01
Eureka	P10A	Nevada,U.S.A.	39.6202N	116.4639W	1874	From 2006-06-07 to 2008-09-08
Eureka Canyon	JECM	California,U.S.A.	37.0505N	121.8104W	399	From 1969-05-28 to 2011-07-26
Eureka Canyon	LT12	California,U.S.A.	37.0505N	121.8104W	399	From 1969-05-28 to 2011-07-26
Eureka Canyon	EUC	California,U.S.A.	37.0505N	121.8104W	399	From 1969-05-28 to 2011-07-26
Eureka Canyon	JECB	California,U.S.A.	37.0492N	121.8072W	365	
Eureka (L)	EK-	Nevada,U.S.A.	39.2089N	115.7103W	1951	From 1963-11-11 to 1964-11-02
Eureka Mesa	EUM	New Mexico,U.S.A.	36.0131N	106.8440W	2914	From 1976-01-13
Eureka Ridge	ERI	Idaho,U.S.A.	46.5347N	116.2750W	862	From 1971-10-01 to 1974-07-26
Eutaw	EU-AL	Alabama,U.S.A.	32.7792N	87.8739W	43	From 1963-07-02 to 1964-10-22
Eutaw	EU-	Alabama,U.S.A.	32.7792N	87.8739W	43	From 1963-07-02 to 1964-10-22
Eutaw	EU2AL	Alabama,U.S.A.	32.7964N	87.8847W	43	From 1966-11-12 to 1967-01-16
Eutaw	EU2	Alabama,U.S.A.	32.7964N	87.8847W	43	From 1966-11-12 to 1967-01-16
Evander	EVA	Transvaal,South Africa	26.5055S	29.0770E	1621	From 1981-01-01 to 1999-01-31
Evansville	EVIN	U.S.A.	37.9716N	87.5297W	140	
Evansville	F48A	Ontario,Canada	45.8278N	82.6185W	203	From 2012-11-13
Evensk	EVNR	Magadanskaya Oblast',Russia	61.9240N	159.2670E	75	From 2006-05-05
Evensk	EVES	Magadanskaya Oblast',Russia	61.9210N	159.2310E	22	From 1980-06-01 to 1993-07-01
Evensk	EVEN	Magadanskaya Oblast',Russia	61.9140N	159.2290E	17	From 2008-11-23
Everest	EVN	Nepal	27.9568N	86.8167E	5037	
Everett College ANSS-SMO	EVCC	Washington,U.S.A.	48.0073N	122.2055W	30	From 2001-08-28
Everett Gateway Middle School ANSS-SMO	EVGW	Washington,U.S.A.	47.8542N	122.1546W	122	From 2001-07-01
Everglades	EVE	Florida,U.S.A.	25.3873N	80.6828W	1	
Evergreen College	EGRN	Washington,U.S.A.	47.0733N	122.9781W	57	
Evora	NE27	Portugal	38.5320N	8.0130W		
Evora	EVO	Portugal	38.5320N	8.0130W	235	
Evrytania	EVR	Greece	38.9167N	21.8087E	1050	
E Wide Canyon 2	EW2	California,U.S.A.	33.9406N	116.4084W	639	
Ewing Young ES, Newberg ANSS-SMO	EYES	Oregon,U.S.A.	45.3294N	123.0577W	61	From 2002-09-01
Excelsior	EXC	Nevada,U.S.A.	38.3385N	118.3242W	1823	
Exmoor	HEX	England,United Kingdom	51.0668N	3.8025W	278	From 1991-01-01
Exogi	EXG	Greece	38.4609N	20.6327E	331	From 2010-06-09
Experimental Lakes	EPLO	Ontario,Canada	49.6737N	93.7258W	437	
Experiment Station	EXSG	California,U.S.A.	37.6137N	118.8310W	2153	From 1984-07-01
Extrema	ETMB	Rondonia,Brazil	9.8168S	66.2137W	118	From 2014-07-27
Eyrewell	EYCZ	South Island,New Zealand	43.4214S	172.3554E	150	From 2012-03-28
Eystri-Skogar	IESK	Iceland	63.5250N	19.4510W	95	From 2001-10-04
Ezine	EZN	Turkey	39.8258N	26.3253E	50	From 1970-08-01
FA05	FA05	Finland	62.5550N	31.2190E	152	
FA06	FA06	Finland	62.2260N	30.6110E	78	
FA07	FA07	Finland	61.9110N	29.9910E	83	
FA08	FA08	Finland	61.5510N	29.3600E	85	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
FA09	FA09	Finland	61.2100N	28.9450E	80	
FA10	FA10	Finland	60.9010N	28.2320E	63	
FA11	FA11	Finland	60.5370N	27.5550E	20	
Fabra	FBR	Spain	41.4164N	2.1250E	405	
Fabrichnaya	FAB	Kazakhstan	43.1470N	76.4470E	1050	
Fachingen	FACH	Rheinland-Pfalz,Germany	50.3563N	7.9938E	110	
Faenza	FAE	Italy	44.3056N	11.8833E	48	
Faenza	FAEN	Italy	44.2895N	11.8770E	41	From 2007-09-17
Fagnano	FAGN	Italy	42.2660N	13.5840E	760	From 2004-05-11
Fagurholsmyri	IFAG	Iceland	63.8750N	16.6540W	27	From 1999-05-14
Faicchio (BN)	T1012	Italia	41.2623N	14.4965E	598	From 2013-12-31 to 2014-03-03
Failaka Island	FKI	Kuwait	29.4471N	48.3132E	6	
Fairbairn	FAIR	Queensland,Australia	23.6565S	148.0772E	290	
Fairbanks	FB-AK	Alaska,U.S.A.	64.9519N	148.2842W	716	
Fairbanks	FBAS	Alaska,U.S.A.	64.7711N	146.8860W	400	
Fairbanks	FB2AK	Alaska,U.S.A.	64.9100N	147.4464W	343	
Fairbanks	FBK	Alaska,U.S.A.	64.8994N	148.0060W	330	From 1970-09-01 to 1972-04-30
Fairbanks	FBA	Alaska,U.S.A.	64.9000N	147.7933W	320	From 1978-08-13 to 1996-12-31
FAIRBANKS INFRASONIC ARRAY REFERENCE POINTS	GIUL	Alaska,U.S.A.	64.8750N	147.8611W	200	From 2002-09-17
Fairbanks--Long Period	FBAL	Alaska,U.S.A.	64.9100N	147.4464W	365	
Fairbourne	WFB	Wales,United Kingdom	52.6830N	4.0378W	325	From 1985-01-01
Fairfield	D25A	North Dakota,U.S.A.	47.1508N	103.3203W	850	From 2009-07-22 to 2011-06-18
Fair Harbour	FHRB	British Columbia,Canada	50.0537N	127.1186W	0	From 2009-03-12
Fairmont	FTW	Washington,U.S.A.	47.8767N	122.2010W	147	From 1975-09-24
Fairpoint	H26A	South Dakota,U.S.A.	44.6168N	102.7739W	879	From 2009-06-20 to 2011-06-02
Fairview Park	FPN1	Nevada,U.S.A.	39.2488N	118.1620W	2002	
Fairview Peak	FPN	Nevada,U.S.A.	39.2040N	118.1560W	2256	From 1971-09-30 to 1999-08-25
Faith Ranch, Carrizo Springs	832A	Texas,U.S.A.	28.2844N	99.9743W	238	From 2009-12-07 to 2011-10-12
Faja de Cima	FAC	Azores,Portugal	37.7732N	25.6505W	191	From 1981-01-01
Fakeheh	FKH	Lebanon	34.2448N	36.4102E	1152	From 2004-12-01
Fak Fak	FAKI	Irian Jaya,Indonesia	2.9192S	132.2489E	136	From 2008-11-27
Faliron Pireas	PIR2	Greece	37.9457N	23.6709E	17	From 2012-09-01
Falk	FKPU	Sweden	58.1591N	13.7241E	305	From 2004-08-07
Falkenberg	FALK	Bayern,Germany	49.8606N	12.2248E	465	
Falkenberg	FABU	Sweden	57.0011N	12.7184E	80	From 2006-10-07
Falkland Islands	FLK	Falkland Islands	51.8365S	58.4465W	10	From 1992-11-06
Fall Branch	U53A	Tennessee,U.S.A.	36.3644N	82.5765W	559	From 2012-05-21
Falling Springs	FAL	California,U.S.A.	34.3098N	117.8092W	2316	
Fallon	P07A	Nevada,U.S.A.	39.5399N	118.8893W	1218	From 2006-02-25 to 2008-03-10
Fall River	FLR	Massachusetts,U.S.A.	41.7167N	71.1215W	52	From 1975-03-24 to 1999-01-31
False Pass	FALS	Alaska,U.S.A.	54.8573N	163.4155W	45	
False Pass	FSP	Alaska,U.S.A.	54.9533N	163.4570W	200	
Falun	FALU	Sweden	60.4943N	15.8318E	150	From 2002-01-15
Famagusta	FAM	Cyprus	34.9961N	34.0019E	68	From 1987-02-01 to 1998-11-30
Famara	EFAM	Spain	29.1275N	13.5295W	135	
Fancy Village	SFAN	St Vincent,Saint Vincent and the Grenadines	13.3838N	61.1721W	229	
F and S Farms, Texico	X27A	New Mexico,U.S.A.	34.6469N	103.0974W	1304	From 2008-04-28 to 2010-03-16
Fangliau	SCZT	Taiwan region	22.3720N	120.6200E	74	
Fanning Island	FAN	Line Islands,Kiribati	4.0000N	159.6670W		
Fano	MFNN	Italy	43.8230N	13.0087E	24	From 2001-05-30
Fano Adriatico	RM18	Italy	42.5499N	13.5318E	853	From 2009-04-09 to 2009-06-23
Fanzolo, Italy	MFAN	Italy	45.7119N	11.9989E	65	From 2010-07-06
Faraa	FRAS	Saudi Arabia	21.0584N	40.5183E	1996	
Farallon Islands	NFIM	California,U.S.A.	37.6983N	123.0000W	107	From 1971-05-05
Farallon Islands	FARB	California,U.S.A.	37.6978N	123.0011W	-18	From 1997-03-15
Farasan al Kabir	FRSS	Saudi Arabia	16.7383N	42.1152E	66	
Faratahi	FRT	Tuamotu,French Polynesia	18.1700S	141.0420W	2	From 1976-01-01
Fardella	BFRD	Italy	40.1139N	16.1671E	753	From 2011-12-18
Farellones	FCH	Santiago,Chile	33.3276S	70.2906W	2770	From 1982-01-01
Fargo Canyon	FRGC	California,U.S.A.	33.7572N	116.0623W	887	
Faris Peak	WFAR	Alaska,U.S.A.	54.5371N	164.7765W	640	
Farley Peak	KFPM	California,U.S.A.	39.6392N	123.4240W	796	
Farmers Butte	FBO	Oregon,U.S.A.	44.3099N	122.5780W	1080	From 1991-09-01
Farmington	FARG	New Mexico,U.S.A.	36.7781N	108.1870W	1801	From 1977-10-01 to 1999-08-25
Farmland	O48A	Indiana,U.S.A.	40.2571N	85.1553W	300	From 2012-06-21
Farmville	FRV	Virginia,U.S.A.	37.2030N	78.3593W	216	From 1978-10-10 to 2004-09-30
Faro	FARH	Ecuador	0.0355S	78.5095W	3595	
Faro	FAR	Portugal	37.0189N	7.9722W	8	
Farra di Soligo, Italy	MPRO	Italy	45.9106N	12.1070E	281	From 2010-06-07
Farr-Stevens Ranch, Sargent	738A	Texas,U.S.A.	28.8404N	95.6481W	13	From 2010-02-16 to 2011-11-11
Farsala	FRS1	Thessaly,Greece	39.2935N	22.3844E	163	From 2011-06-15
Farson	L19A	Wyoming,U.S.A.	42.1012N	109.3575W	2034	From 2007-10-24 to 2009-10-15
Fartura	FRTB	Sao Paulo,Brazil	23.3435S	49.5635W	531	
Far West T-bar	FWVZ	North Island,New Zealand	39.2549S	175.5530E	2043	From 1999-05-11
Fasano	FASA	Italy	40.8162N	17.3541E	172	From 2011-04-14
Fath-abad	IFTB	Iran	38.0171N	46.3944E	2222	From 2008-01-01
Fatmalar	FAT	Turkey	36.9065N	31.5136E	472	From 1975-04-01
Faulkton	G30A	South Dakota,U.S.A.	45.1293N	99.1446W	496	From 2009-09-09 to 2011-07-12
Faultless	FA-NV	Nevada,U.S.A.	38.6406N	116.2228W	1920	
Fauresmith	FRS	Orange Free State,South Africa	29.7500S	25.3217E	1420	From 1985-01-01 to 2000-09-01
Favara	FA1	Sicily,Italy	37.3000N	13.6600E	330	From 1983-04-01
Favara	FAI	Sicily,Italy	37.2758N	13.6756E	149	From 1983-04-01
Favara	FAVR	Sicily,Italy	37.2671N	13.6669E	258	
Fayetteville	FAY	Arkansas,U.S.A.	36.0911N	94.1911W	404	From 1952-01-01 to 1969-07-31
Fayetteville	FAV	Arkansas,U.S.A.	36.1214N	94.1906W	387	From 1969-07-01
Fayid	FYD	Egypt	30.2930N	32.2310E	200	
Fayoum	RYAN	Egypt	29.0820N	30.2770E	123	From 2014-09-01
Faz. Rancharia - MS	FRNC1	Mato Grosso,Brazil	18.6011S	55.8295W	136	From 2011-07-14
FB03	FB03	Finland	63.2500N	32.0320E	190	
FB05	FB05	Finland	62.8120N	30.5960E	160	
FB06	FB06	Finland	62.4880N	30.0060E	90	
FB07	FB07	Finland	62.1300N	29.6020E	105	
FB08	FB08	Finland	61.8500N	28.7960E	105	
FB09	FB09	Finland	61.4650N	28.2050E	110	
FB10	FB10	Finland	61.1410N	27.6160E	110	
FB11	FB11	Finland	60.7860N	27.0180E	55	
FC03	FC03	Finland	63.9250N	30.9030E	185	
FC04	FC04	Finland	63.4330N	30.4140E	150	
FC05	FC05	Finland	63.0590N	29.8680E	145	
FC06	FC06	Finland	62.7630N	29.3750E	90	
FC07	FC07	Finland	62.4090N	28.7250E	100	
FC08	FC08	Finland	62.1060N	28.0630E	80	
FC09	FC09	Finland	61.7450N	27.4940E	115	
FC10	FC10	Finland	61.3880N	26.9450E	95	
FC11	FC11	Finland	61.0360N	26.3980E	75	
FD03	FD03	Finland	64.0570N	30.3050E	225	
FD04	FD04	Finland	63.6640N	29.8730E	157	
FD05	FD05	Finland	63.3490N	29.2370E	95	
FD06	FD06	Finland	63.0120N	28.6070E	145	
FD07	FD07	Finland	62.6560N	27.9950E	170	
FD08	FD08	Finland	62.3230N	27.3900E	127	
FD09	FD09	Finland	61.9890N	26.8780E	122	
FD11	FD11	Finland	61.2860N	25.7210E	105	
FD12	FD12	Finland	60.9490N	25.1580E	120	
FD14	FD14	Finland	60.1890N	24.1950E	45	
FD15	FD15	Finland	59.8430N	23.2460E	2	
FE03	FE03	Finland	64.2760N	29.8350E	178	
FE04	FE04	Finland	63.9340N	29.1020E	195	
FE05	FE05	Finland	63.5820N	28.5830E	183	
FE06	FE06	Finland	63.2810N	27.9110E	114	
FE07	FE07	Finland	62.9190N	27.4170E	90	
FE08	FE08	Finland	62.5910N	26.7350E	105	
FE09	FE09	Finland	62.1110N	26.3090E	195	
FE10	FE10	Finland	61.9020N	25.6600E	95	
FE11	FE11	Finland	61.5290N	25.0420E	150	
FE12	FE12	Finland	61.1890N	24.4610E	95	
FE13	FE13	Finland	60.8320N	23.9690E	122	
FE14	FE14	Finland	60.4820N	23.4690E	178	
FE15	FE15	Finland	60.1130N	22.9340E	80	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Feather Falls	FEA	California,U.S.A.	39.6191N	121.2460W	1227	From 1966-06-01 to 1969-01-31
Featherly Pass	FLP	Alaska,U.S.A.	57.7117N	156.2650W	485	From 1975-10-01
Federal Ranch	FRC	British Columbia,Canada	56.4417N	122.3830W		From 1967-12-01 to 1973-04-06
Fedgar	IFED	Iceland	64.0251N	19.6909W	432	From 2012-08-14
F¨f¨, Capesterre Belles Eaux	CBE	Guadeloupe,France	16.0697N	61.6071W	378	From 2012-09-17
Feichten	FETA	Austria	47.0211N	10.7291E	1632	From 2006-12-13
Feke	FEKT	Turkey	37.8070N	35.9070E	690	From 1993-01-01
Feldberg	FEL	Baden-Wurttemberg,Germany	47.8758N	8.0127E	1330	From 1961-01-01 to 1996-04-30
Feldberg im Schwarzwald	FELD	Baden-Wurttemberg,Germany	47.8763N	8.0040E	1465	From 1996-04-01
Felix, Anita	M36A	Iowa,U.S.A.	41.4537N	94.8021W	430	From 2010-11-06 to 2012-08-31
Fenais da Ajuda	PFAD	Azores,Portugal	37.8388N	25.3231W	291	From 2003-12-01
Fenestrelle	FENE	Italy	45.0302N	7.0627E	1000	From 1996-10-01 to 2009-09-30
Feng-lin	TWE*	Taiwan region	23.7367N	120.4255E	140	
Fenwick Farm, Montrose	R38A	Missouri,U.S.A.	38.1868N	93.9056W	237	From 2010-12-05 to 2012-09-29
Feodosiya	FEO	Ukraine	45.0190N	35.3900E	40	
Fergana	FRG	Uzbekistan	40.3833N	71.7833E	577	
Ferguson	FERR	Nevada,U.S.A.	38.5928N	118.1750W	1646	From 1976-03-01
Ferguson Farm, Pottsville	W40A	Arkansas,U.S.A.	35.1923N	93.0693W	108	From 2011-01-25 to 2012-11-06
Fermate	NQWLB	Haiti	18.4941N	72.3150W	905	
Fernandina1, Punta Espinoza	FER1	Galapagos,Ecuador	0.4881S	91.4481W	64	From 2012-10-09
Fernandina2, Punta Mangle	FER2	Galapagos,Ecuador	0.4665S	91.4106W	250	From 2012-10-09
Fernando de Noronha	FNDO	Brazil	3.8333S	32.4167W		
Ferndale	FER	California,U.S.A.	40.5767N	124.2620W	15	From 1933-01-01
Fern Forest	FEF	Hawaii,U.S.A.	19.4783N	155.1490W	691	
Fernie	FRN	British Columbia,Canada	49.4833N	114.9770W		
Ferrara borehole (Italy)	FERB	Italy	44.9014N	11.5400E	-129	From 2012-09-18
Ferrara-Casaglia	FERS	Italy	44.9035N	11.5406E	3	From 2012-12-21
Ferrara Citta	FECT	Italy	44.8675N	11.6264E	-55	
Ferry Basin	FBMT	Montana,U.S.A.	47.4068N	114.4222W	1518	
Feteiras	PFET	Azores,Portugal	37.8174N	25.7886W	342	From 2004-06-01
Fethiye	FETY	Turkey	36.6353N	29.0835E	452	From 2004-12-03
Fethiye-Mugla	FETI	Turkey	36.6901N	29.0962E	20	From 2011-04-21
FF02	FF02	Finland	64.7800N	30.0060E	225	
FF04	FF04	Finland	64.2070N	28.4750E	175	
FF05	FF05	Finland	63.8210N	27.9900E	170	
FF06	FF06	Finland	63.5020N	27.2050E	125	
FF07	FF07	Finland	63.1920N	26.5940E	113	
FF11	FF11	Finland	61.7980N	24.2870E	155	
FF12	FF12	Finland	61.3740N	23.8780E	125	
FF13	FF13	Finland	61.0550N	23.3430E	108	
FF14	FF14	Finland	60.6930N	22.8190E	177	
FF15	FF15	Finland	60.4160N	22.4430E	60	
FF30	FF30	Finland	64.4950N	29.0990E	220	
FF31	FF31	Finland	64.3770N	28.6720E	240	
FF32	FF32	Finland	64.3860N	29.4280E	230	
FF33	FF33	Finland	64.6210N	28.8150E	205	
FF90	FF90	Finland	62.4870N	25.4720E	194	
FF91	FF91	Finland	62.6540N	25.6920E	120	
FF92	FF92	Finland	62.4030N	25.9020E	120	
FF93	FF93	Finland	62.2890N	25.3070E	220	
FF94	FF94	Finland	62.5690N	25.0570E	237	
FG01	FG01	Finland	65.4380N	29.5580E	218	
FG02	FG02	Finland	65.1560N	29.1000E	220	
FG03	FG03	Finland	64.8240N	28.4120E	223	
FG04	FG04	Finland	64.4510N	27.7780E	221	
FG05	FG05	Finland	64.1480N	27.2050E	135	
FG06	FG06	Finland	63.7640N	26.5380E	142	
FG07	FG07	Finland	63.4190N	25.8970E	157	
FG08	FG08	Finland	63.0840N	25.3700E	128	
FG09	FG09	Finland	62.7210N	24.7910E	188	
FG10	FG10	Finland	62.3990N	24.2360E	150	
FG11	FG11	Finland	62.0890N	23.7340E	309	
FG12	FG12	Finland	61.6510N	23.1290E	62	
FG13	FG13	Finland	61.3080N	22.6850E	70	
FG14	FG14	Finland	60.9570N	22.1070E	64	
FH02	FH02	Finland	65.4120N	28.2690E	231	
FH03	FH03	Finland	65.0610N	27.6110E	213	
FH04	FH04	Finland	64.7040N	27.1100E	140	
FH05	FH05	Finland	64.3570N	26.5070E	115	
FH06	FH06	Finland	64.0260N	25.8150E	119	
FH07	FH07	Finland	63.6820N	25.1990E	112	
FH09	FH09	Finland	62.9610N	24.1320E	151	
FH10	FH10	Finland	62.6230N	23.5270E	127	
FH11	FH11	Finland	62.2400N	23.0670E	142	
FH12	FH12	Finland	61.9020N	22.3530E	111	
FH13	FH13	Finland	61.5610N	22.0080E	63	
FH14	FH14	Finland	61.2390N	21.4730E	108	
Fiamignano	FIAM	Italy	42.2680N	13.1172E	1070	From 2004-07-02
Ficken Ranch, Kirk	P27A	Colorado,U.S.A.	39.5559N	102.5782W	1286	From 2009-02-03 to 2010-10-16
Fickle Hill	FHC	California,U.S.A.	40.8017N	123.9850W	610	From 1968-12-01
Fiddyment Ranch	AFRM	California,U.S.A.	38.7923N	121.3490W	31	From 1976-12-02
Fields	L08A	Oregon,U.S.A.	42.1901N	118.3445W	1490	From 2006-06-19 to 2008-04-19
Fields Point	FPW	Washington,U.S.A.	47.9667N	120.2130W	352	From 1975-06-01
Fieri	FIER	Albania	40.7173N	19.5671E	15	From 2014-01-17
Fierza	FRZ	Albania	42.2813N	20.0382E		
Fiescheralp	FIESA	Switzerland	46.4353N	8.1104E	2338	From 2009-11-12
Fiesheim UWZ	BA04	Nordrhein-Westfalen,Germany	50.7620N	6.7941E	118	From 2006-10-01
Fife Lake	H46A	Michigan,U.S.A.	44.5397N	85.2034W	329	From 2012-11-08
Fig Tree	FGTQ	Queensland,Australia	20.9701S	147.7760E	220	From 1987-08-03
Figueroa Mtn.	FIGC	California,U.S.A.	34.7283N	119.9880W	945	
Fila Bonilla	FIBO	Costa Rica	10.0192N	83.7075W	2160	
Fila Carbon	FICA	Costa Rica	9.7375N	82.8945W	204	
Fila de Piedra	FIPE	Venezuela	7.9697N	71.2511W	600	From 1984-01-01
Filaki	VFI	Greece	39.2352N	22.5921E	360	From 1982-10-01
Fila Paraiso	ELPA	Venezuela	7.7917N	71.7253W	1285	From 1984-01-01
Filetto	RM08	Italy	42.3719N	13.5047E	1054	From 2009-04-06 to 2009-08-31
Filicudi I Eolie	IFIL	Sicily,Italy	38.5640N	14.5660E	200	From 1979-01-01
Filignano	CERA	Italy	41.5978N	14.0183E	800	From 2006-07-20
Fillmore	FM-	Utah,U.S.A.	39.2183N	112.2069W	1890	From 1961-10-07 to 1966-03-12
Fillmore	FM-UT	Utah,U.S.A.	39.2183N	112.2069W	1890	From 1961-10-07 to 1966-03-12
Fillmore	FIL	California,U.S.A.	34.4238N	118.8350W	243	
Fillmore	Q15A	Utah,U.S.A.	38.9995N	112.3793W	1477	From 2007-05-22 to 2008-11-15
Fillols	FILF	Languedoc-Rousillon,France	42.5603N	2.5603E	850	From 1998-09-09
Finale Ligure	FINB	Italy	44.1775N	8.3253E	85	From 2008-01-01
Finale Ligure	FIN	Italy	44.2092N	8.2083E	590	From 1984-01-01 to 2009-09-30
Finca la Perla	LAPC	Costa Rica	10.7675N	85.4328W	359	From 2000-01-01
Finca Las Im˜¡genes	GBS3	Costa Rica	10.7818N	85.4550W	359	From 2000-01-01
Fine	FINE	New York,U.S.A.	44.2650N	75.1670W	354	
FINESS Array Beam Reference Point	FINES	Finland	61.4436N	26.0771E	150	
FINESS Array Site A0	FIA0	Finland	61.4436N	26.0771E	156	From 1990-01-01
FINESS Array Site A1	FIA1	Finland	61.4445N	26.0793E	138	
FINESS Array Site A2	FIA2	Finland	61.4412N	26.0737E	162	
FINESS Array Site A3	FIA3	Finland	61.4447N	26.0716E	153	
FINESS Array Site B1	FIB1	Finland	61.4441N	26.0845E	165	
FINESS Array Site B2	FIB2	Finland	61.4391N	26.0818E	159	
FINESS Array Site B3	FIB3	Finland	61.4394N	26.0706E	176	
FINESS Array Site B4	FIB4	Finland	61.4436N	26.0650E	158	
FINESS Array Site B5	FIB5	Finland	61.4467N	26.0711E	143	
FINESS Array Site B6	FIB6	Finland	61.4469N	26.0808E	147	
FINESS Array Site C1	FIC1	Finland	61.4384N	26.0596E	158	
FINESS Array Site C2	FIC2	Finland	61.4488N	26.0612E	154	
FINESS Array Site C3	FIC3	Finland	61.4527N	26.0772E	133	
FINESS Array Site C4	FIC4	Finland	61.4489N	26.0899E	145	
FINESS Array Site C5	FIC5	Finland	61.4397N	26.0917E	161	
FINESS Array Site C6	FIC6	Finland	61.4346N	26.0760E	159	
Finlay Fork	FNC	British Columbia,Canada	55.9917N	123.2500W		
Finn Hill Junior High School	FINN	Washington,U.S.A.	47.7191N	122.2319W	10	
Finntorp	FINU	Sweden	59.4034N	12.4789E	229	From 2005-05-01
Finschhafen	FINC	Papua New Guinea	6.6167S	147.8570E	7	From 1992-05-20

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Finsterwolde	FSW	Netherlands	53.2146N	7.1204E	0	
Finsterwolde 1	FSW1	Netherlands	53.2135N	7.1195E	1	From 2010-04-29
Finsterwolde 2	FSW2	Netherlands	53.2135N	7.1195E	-74	From 2010-04-29
Finsterwolde 3	FSW3	Netherlands	53.2135N	7.1195E	-149	From 2010-04-29
Finsterwolde 4	FSW4	Netherlands	53.2135N	7.1195E	-224	From 2010-04-29
Finsterwolde 5	FSW5	Netherlands	53.2135N	7.1195E	-299	From 2010-04-29
Fintinele	FTB	Romania	46.6892N	23.0544E	1100	From 1979-01-01
Fiordimonte	FDMO	Italy	43.0365N	13.0873E	550	From 2008-03-27
Firariana	FRR	Madagascar	18.7169S	47.6000E	1555	From 1973-06-01 to 1978-11-16
Fira-Santorini	THR7	Greece	36.4224N	25.4284E	315	From 2010-03-06
Firavahana	FIRM	Madagascar	18.7002S	46.8786E	1748	From 2001-07-22
Firdgum	FDG3	Netherlands	53.2562N	5.5481E	-89	From 2009-10-13
Firdgum	FDG4	Netherlands	53.2562N	5.5481E	-119	From 2009-10-13
Firdgum	FDG1	Netherlands	53.2562N	5.5481E	-29	From 2009-10-13
Firdgum	FDG2	Netherlands	53.2562N	5.5481E	-59	From 2009-10-13
Fire Island	FIB	Alaska,U.S.A.	61.1662N	150.1753W	62	From 1996-01-01
Fire Island	FIS	Alaska,U.S.A.	61.1442N	150.2190W	76	From 1974-09-24 to 1976-05-04
Firenze	FIR	Italy	43.7739N	11.2550E	46	
Firoozkooh	IFIR	Iran	35.6415N	52.7536E	2380	From 1996-01-01
Firsovo	FRSO	Sakhalinskaya Oblast',Russia	47.6500N	142.5670E	5	From 1979-01-01 to 1981-01-01
First Sedna Site,Hudson Bay	SEDN	Nunavut,Canada	63.2502N	91.2081W	121	From 2006-08-24
Fish Creek	FSHM	Victoria,Australia	38.7565S	145.9996E	420	
Fish Creek Ranch, Battle Mountain	O09A	Nevada,U.S.A.	40.1697N	117.1899W	1491	From 2006-04-22 to 2008-03-08
Fish Haven	L16A	Idaho,U.S.A.	42.0149N	111.4319W	2013	From 2007-07-13 to 2009-05-06
Fish Lake Valley	FLV	Nevada,U.S.A.	37.8139N	117.9104W	1689	
Fishrie	MFI	Scotland,United Kingdom	57.6116N	2.2953W	220	From 1988-01-01
Fish Springs	FSU	Utah,U.S.A.	39.7225N	113.3910W	1487	From 1979-06-01
Fiskardo	FSK	Greece	38.4593N	20.5623E	113	From 2012-03-24
Fitzpatrick Place, Clyde Park	F17A	Montana,U.S.A.	45.9054N	110.6590W	1545	From 2007-10-21 to 2009-09-09
Fitzroy Crossing	FITX	Western Australia,Australia	18.1092S	125.6428E	110	From 1995-03-19 to 1996-09-11
Fitzroy Crossing	FITZ	Western Australia,Australia	18.0982S	125.6401E	117	From 1994-09-01
Fitzroy Falls	FTZM	New South Wales,Australia	34.6421S	150.4838E	711	
Fitzroy Harbor	FHO	Ontario,Canada	45.4550N	76.2170W	72	From 1979-04-01 to 1982-01-11
Fitzsimmons Farm, Good Thunder	I36A	Minnesota,U.S.A.	44.0191N	94.0143W	307	From 2010-09-20 to 2012-09-12
Fiumefreddo	EFIU	Sicily,Italy	37.7896N	15.2103E	97	From 2009-05-26
Fiuminata	FIU1	Italy	43.1886N	12.9316E	465	From 2011-03-14
Five Bridges	MFBM	California,U.S.A.	37.4293N	118.4289W	1348	
Five Rivers Env. Education Center, Delmar	K60A	New York,U.S.A.	42.6168N	73.8886W	79	From 2013-09-13
Fivizzano	TFIV	Italy	44.2360N	10.1210E	329	From 2002-08-01
Fivizzano	FIVI	Italy	44.2393N	10.1273E	380	From 2006-01-01
FJ01	FJ01	Finland	66.0370N	28.3050E	265	
FJ02	FJ02	Finland	65.6600N	27.6510E	215	
FJ03	FJ03	Finland	65.2970N	26.9640E	120	
FJ05	FJ05	Finland	64.6210N	25.7190E	47	
FJ06	FJ06	Finland	64.2760N	25.0890E	103	
FJ07	FJ07	Finland	63.9220N	24.4860E	84	
FJ08	FJ08	Finland	63.5490N	23.9140E	112	
FJ09	FJ09	Finland	63.1990N	23.3240E	87	
FJ11	FJ11	Finland	62.4210N	22.1420E	121	
FJ12	FJ12	Finland	62.1290N	21.6770E	68	
FK04	FK04	Finland	65.0860N	25.8930E	63	
FK05	FK05	Finland	64.8660N	24.9400E	10	
FK06	FK06	Finland	64.4990N	24.3210E	8	
FK07	FK07	Finland	64.1740N	23.7590E	12	
FK08	FK08	Finland	63.7910N	23.1810E	17	
FK09	FK09	Finland	63.4290N	22.6040E	20	
FK10	FK10	Finland	63.0690N	22.1040E	10	
FK11	FK11	Finland	62.6790N	21.6710E	71	
FKAF	FKAF	Finland	62.1110N	26.3090E	195	
Flaach	FLACH	Switzerland	47.5720N	8.5676E	370	From 2003-08-29
Flagg Ranch	FLWY	Wyoming,U.S.A.	44.0827N	110.6993W	2078	
Flagon Creek Properties, Pineville	342A	Louisiana,U.S.A.	31.3747N	92.3249W	37	From 2011-02-23 to 2012-12-02
Flag Point	VFP	Oregon,U.S.A.	45.3181N	121.4650W	1716	From 1980-10-01
Flagstaff	FS-AZ	Arizona,U.S.A.	35.0692N	111.3094W	1890	From 1961-10-14 to 1966-03-12
Flagstaff	FS-	Arizona,U.S.A.	35.0692N	111.3094W	1890	From 1961-10-14 to 1966-03-12
Flagstaff	W16A	Arizona,U.S.A.	35.0951N	111.5318W	2192	From 2007-04-27 to 2008-11-21
Flagstaff	FLAG	Arizona,U.S.A.	35.1667N	111.6430W	2115	From 1977-05-01
Flagstaff	FLG	Arizona,U.S.A.	35.2932N	111.7020W	2445	From 1966-11-01 to 1972-09-30
Flamenco Island	FLAM	Panama	8.9130N	79.5370W	79	
Flaming Gorge	FGU	Utah,U.S.A.	40.9264N	109.3860W	1982	From 1960-01-01 to 1976-06-30
Flanigan	O06A	Nevada,U.S.A.	40.1650N	119.8275W	1228	From 2006-02-24 to 2008-03-05
Flash Two Peak	FLSC	California,U.S.A.	34.9704N	117.0391W	990	From 1979-06-01
Flassans-sur-Issole	FLAF	Provence-Cote d'Azur,France	43.3827N	6.2549E	300	From 2012-02-27
Flat	FLA	Utah,U.S.A.	39.4700N	110.4380W	1670	From 1962-01-01 to 1977-03-31
Flatey	IFLA	Iceland	66.1610N	17.8480W	13	From 2000-11-09
Flat Gap	FGTN	Tennessee,U.S.A.	36.4340N	83.1950W	500	From 1991-12-19 to 2008-02-13
Flathead National Forest, Polebridge	A13A	Montana,U.S.A.	48.9330N	114.4135W	1199	From 2006-09-28 to 2009-08-06
Flat River	FRM	Missouri,U.S.A.	37.8358N	90.4864W	161	From 1969-01-01 to 1972-12-31
Flat Rock	FRNY	New York,U.S.A.	44.8350N	73.5883W	223	
Flat Rock, Escanaba	F43A	Michigan,U.S.A.	45.8313N	87.1694W	233	From 2011-09-13 to 2013-06-11
Flat Top 2	FL2	Washington,U.S.A.	46.1964N	122.3500W	1378	
Flavio Alfaro	FLFR	Ecuador	0.3574S	79.8427W	399	From 2008-12-10
Flechtingen	FLTG	Germany	52.3306N	11.2372E	98	From 2008-11-20
Fleetwood	FLT	Alabama,U.S.A.	33.2580N	87.4095W	128	From 1971-01-09
Flemingsburg	SLKY	Kentucky,U.S.A.	38.4260N	83.7510W	280	From 1989-02-15
Flemingsburg	FLKY	Kentucky,U.S.A.	38.4260N	83.7510W	280	From 1989-02-15
Fletcher	FLE	Vermont,U.S.A.	44.7227N	72.9517W		
Fletcher	FLET	Vermont,U.S.A.	44.7227N	72.9517W	366	From 1977-08-08
Fletcher Lake Big Creek, BC	FLLB	British Columbia,Canada	51.7390N	123.1059W	1189	From 2006-08-24 to 2008-06-10
Flin Flon	FFC	Saskatchewan,Canada	54.7250N	101.9780W	338	From 1965-02-22
Flin Flon Array Beam Reference Point	FLAR	Saskatchewan,Canada	54.7188N	101.9950W	229	
Flin Flon Array Site 1	FL01	Saskatchewan,Canada	54.7257N	101.9921W		
Flin Flon Array Site 10	FL10	Saskatchewan,Canada	54.7398N	101.9559W		
Flin Flon Array Site 11	FL11	Saskatchewan,Canada	54.7171N	101.9410W		
Flin Flon Array Site 12	FL12	Saskatchewan,Canada	54.6984N	101.9454W		
Flin Flon Array Site 13	FL13	Saskatchewan,Canada	54.6875N	101.9855W		
Flin Flon Array Site 14	FL14	Saskatchewan,Canada	54.6925N	102.0241W		
Flin Flon Array Site 15	FL15	Saskatchewan,Canada	54.7126N	102.0421W		
Flin Flon Array Site 16	FL16	Saskatchewan,Canada	54.7361N	102.0558W		
Flin Flon Array Site 17	FL17	Saskatchewan,Canada	54.7481N	102.0301W		
Flin Flon Array Site 18	FL18	Saskatchewan,Canada	54.7599N	101.9958W		
Flin Flon Array Site 2	FL02	Saskatchewan,Canada	54.7252N	101.9677W		
Flin Flon Array Site 3	FL03	Saskatchewan,Canada	54.7120N	101.9634W		
Flin Flon Array Site 31	FL31	Saskatchewan,Canada	54.7189N	101.9950W	229	
Flin Flon Array Site 4	FL04	Saskatchewan,Canada	54.7119N	101.9811W		
Flin Flon Array Site 5	FL05	Saskatchewan,Canada	54.7087N	102.0021W		
Flin Flon Array Site 6	FL06	Saskatchewan,Canada	54.7182N	102.0096W		
Flin Flon Array Site 7	FL07	Saskatchewan,Canada	54.7266N	102.0168W		
Flin Flon Array Site 8	FL08	Saskatchewan,Canada	54.7348N	101.9902W		
Flin Flon Array Site 9	FL09	Saskatchewan,Canada	54.7544N	101.9668W		
Flint Hills	HFHM	California,U.S.A.	36.8882N	121.4690W	101	From 1975-12-10
Flippin	FLPT	Tennessee,U.S.A.	36.4094N	89.3206W	131	
Florencia	CFLOR	Colombia	1.5850N	75.6560W	378	
Florencia	FLOC	Colombia	1.5827N	75.6527W	365	From 1994-01-01
Flores Is	FLOR	Azores,Portugal	39.4347N	31.1921W	605	From 1991-09-09
FLORES T-PHASE SITE N1	H07N1	Azores,Portugal	39.6912N	31.1196W	479	From 2005-05-04
FLORES T-PHASE SITE S1	H07S1	Azores,Portugal	39.3786N	31.2061W	478	From 2004-11-30
Florida	FLOM	Guerrero,Mexico	17.2255N	100.3887W	840	
Florina	FNA	Greece	40.7838N	21.3762E	750	From 1989-12-01
Florina	FLO2	Greece	40.7802N	21.4050E	670	From 2011-06-15
Florissant	FLO	Missouri,U.S.A.	38.8017N	90.3700W	160	From 1928-01-01 to 1971-08-31
Floro	FOO	Norway	61.5980N	5.0440E	10	From 1999-06-08
Flostrand	STOK2	Norway	66.3400N	13.3600E	20	From 2005-07-01
Flostrand	FLOS	Norway	66.3365N	13.3647E	20	From 2005-05-01
Flower Mountain	FMTX	Texas,U.S.A.	31.7720N	94.8050W	220	
Flueckinger Farm, Gordon	K27A	Nebraska,U.S.A.	42.7036N	102.2364W	1131	From 2008-11-16 to 2010-10-04
Flymyra	FLYU	Sweden	60.1282N	17.8846E	100	From 2002-01-13
FM Road 95, Garrison	ETX03	Texas,U.S.A.	31.8273N	94.5000W	102	
Fo^§a	FOCM	Turkey	38.7130N	26.7308E	34	From 2011-07-24

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Focsani	FOC	Romania	45.6950N	27.1833E	61	From 1942-07-12
Fodele	FODE	Crete,Greece	35.3797N	24.9576E	50	
Foel Wylfa	FOEL	Wales,United Kingdom	52.8898N	3.2012W	449	From 2008-10-30
Fofonovo	FFNB	Buryatiya,Russia	52.0470N	106.7640E	564	From 1999-08-01
Foggia	FGG	Italy	41.4500N	15.5514E		From 1977-11-01
Foggia	FG1	Italy	41.4500N	15.5514E		From 1977-11-01
Foggia	FOG	Italy	41.4500N	15.5514E		From 1977-11-01
Fogo--Pe de Pico	FPPC	Cape Verde Islands	14.9603N	24.3658W	1680	
Foia	PFFO	Portugal	37.3163N	8.5860W	799	From 1996-01-01 to 2009-05-30
Foira Santorini	SFIR	Greece	36.4224N	25.4284E	310	From 2012-01-30
Foligno	UFLG	Italy	42.9639N	12.7282E	324	From 2004-12-12
Foligno	FOL	Italy	42.9567N	12.7067E		
Folkestone	TFO1	England,United Kingdom	51.1135N	1.1409E	202	From 1989-01-01
Fond-Bernard	FNG	Guadeloupe,France	16.0603N	61.6867W	825	
Fontana	FON	California,U.S.A.	34.0996N	117.4387W	449	
Fontanafredda	FFNT	Italy	45.9791N	12.5863E	40	From 2002-01-30
Fontana Vidola	FNVD	Italy	44.1678N	11.1229E	950	From 2003-10-22
Fonte Corniale	FCOR	Italy	43.7692N	12.8146E	540	From 2014-01-09
Fontenelle, Green River	L18A	Wyoming,U.S.A.	41.9243N	110.0364W	2051	From 2007-11-03 to 2009-10-17
Fontinhas	FOT	Azores,Portugal	38.7411N	27.3361W		
Fontmartina	CFON	Spain	41.7623N	2.4356E	972	
Fontmartina	FONT	Spain	41.7622N	2.4338E	963	
Font Roja	AFON	Spain	38.6649N	0.5412W	1120	From 2008-12-23
Fool Peak	FLU	Utah,U.S.A.	39.3782N	112.1710W	1950	
Foothills Park , Santa Clara County	JFP	California,U.S.A.	37.3604N	122.1899W	291	From 2003-06-06
Forcatura	UFCT	Italy	43.0280N	12.8630E	851	From 2012-02-01
Forcella Aurine	FAU	Italy	46.2300N	11.9800E	1430	
Fordham	FOR	New York,U.S.A.	40.8631N	73.8856W	24	From 1910-01-01
Ford Ranch, Anza	FRD	California,U.S.A.	33.4948N	116.6022W	1000	From 2012-06-20 to 2012-12-12
Ford Ridge	FDU	Utah,U.S.A.	39.7568N	110.9900W	2975	From 1978-03-01 to 2004-03-05
Forest Bistro	DFBT	Dominica	15.2401N	61.3559W	83	
Forest City	W43A	Arkansas,U.S.A.	35.0877N	90.7061W	70	From 2011-07-30 to 2013-02-14
Forest Hill	FWV	West Virginia,U.S.A.	37.5817N	80.8117W	756	
Forest Hills Divide	AFDM	California,U.S.A.	38.9480N	120.9720W	549	From 1983-05-16
Forest Hill Site	AFHM	California,U.S.A.	39.0418N	120.7910W	1064	From 1976-07-20
Forest Lakes	X17A	Arizona,U.S.A.	34.3371N	110.8058W	2280	From 2007-04-13 to 2009-02-20
Forestry Corps, Argostoli (Cefalonia, Greece)	KEFOR	Greece	38.1623N	20.5068E	53	From 2014-02-05 to 2014-05-20
Forgia Vecchia	VL6*	Sicily,Italy	38.4089N	14.9611E		From 1966-04-01 to 1966-05-01
Formoso do Araguaia, TO, Brazil	RET2	Tocantins,Brazil	11.6983S	49.5342W	193	From 2008-07-18 to 2012-06-08
Forni Avoltri	FOA	Italy	46.5867N	12.7750E	880	From 1982-06-06 to 1988-01-01
Forni Avoltri	FVI	Italy	46.5966N	12.7804E	1024	
Forrest	FORT	Western Australia,Australia	30.7790S	128.0590E	165	From 1992-05-19
Forrest	FRTM	Victoria,Australia	38.5337S	143.7160E	230	
Forrest	FORR	Western Australia,Australia	30.8500S	128.1000E		From 1988-01-01 to 1992-05-17
Forrest Kerr	FKBC	British Columbia,Canada	56.7847N	130.6180W	1175	From 1989-10-10
Forsmark	FORU	Sweden	60.3870N	18.1801E	10	From 2005-05-12
Forsnaval	RFO	Scotland,United Kingdom	58.2133N	7.0052W	197	From 1995-09-10
Forsyth	FR-	Montana,U.S.A.	46.1000N	106.4403W	823	From 1963-07-07 to 1964-08-05
Forsyth	FR-MA	Montana,U.S.A.	46.1000N	106.4403W	823	From 1963-07-07 to 1964-08-05
Forsythe	AN2*	California,U.S.A.	36.7875N	121.4470W	41	From 1967-09-25 to 1971-04-27
Fortaleza - CE	FOR1	Ceara,Brazil	3.7785S	38.7681W	470	From 2002-09-30
Fort Charlotte	FCV	St Vincent,Saint Vincent and the Grenadines	13.1570N	61.2450W	194	
Fort Churchill	FCC	Manitoba,Canada	58.7617N	94.0867W	39	
Fort de France	FDF	Martinique,France	14.7333N	61.1503W	510	
Fort de Pagny la Blanche Cˆ·te (52)	PAGF	France,France	48.5551N	5.7251E	384	From 2008-11-05
Fort Gibson	GBO	Oklahoma,U.S.A.	35.8526N	95.1843W	302	From 1979-07-19 to 1984-12-30
FORTIN DE LA CUMBRE	FDCV	Venezuela	10.5407N	66.9537W	1472	From 2003-09-08
Fort Lent	NE42	Netherlands	51.8630N	5.8510E		
Fort MacArthur	FMA	California,U.S.A.	33.7125N	118.2850W	15	
Fort Macarthur Park, San Pedro	FMP	California,U.S.A.	33.7126N	118.2938W	89	From 2000-08-30
Fort Manro	FTMN	Punjab,India	29.9000N	70.0000E	1909	From 2010-10-15
Fort McLeod	FT-BC	British Columbia,Canada	54.9136N	122.8822W	914	From 1962-11-16 to 1962-12-09
Fort McLeod	FT-	British Columbia,Canada	54.9136N	122.8822W	914	From 1962-11-16 to 1962-12-09
Fort Nelson	FL-BC	British Columbia,Canada	58.8606N	122.8364W	655	From 1965-10-22 to 1965-11-15
Fort Nelson	FL-	British Columbia,Canada	58.8606N	122.8364W	655	From 1965-10-22 to 1965-11-15
Fort Nelson	FNBB	British Columbia,Canada	58.8904N	123.0097W	618	
Fort Nelson	FNBC	British Columbia,Canada	58.8418N	122.5737W	380	From 1998-02-09 to 2006-03-28
Fort Paine	FPAL	Alabama,U.S.A.	34.5403N	85.6113W	556	
Fort Payne	X50A	Alabama,U.S.A.	34.4596N	85.6486W	489	From 2011-12-16 to 2012-04-04
Fort Payne	X50B	Alabama,U.S.A.	34.4611N	85.6499W	494	From 2011-12-16
Fort Rock	J05A	Oregon,U.S.A.	43.2843N	121.2357W	1540	From 2006-07-17 to 2007-11-02
Fort Rock, OR	J05D	Oregon,U.S.A.	43.2848N	121.2347W	1541	From 2009-10-16
Fort Ross	FTR	California,U.S.A.	38.5227N	123.1610W	528	From 1975-01-22
Fort Saint-Gobain, Modane	OGMO	Rhone-Alpes,France	45.2084N	6.6850E	1080	From 1996-10-07
Fort Saint James	FSB	British Columbia,Canada	54.4767N	124.3280W	747	
Fort Saint James	FSJ	British Columbia,Canada	54.4633N	124.2800W	772	From 1965-05-12 to 1979-04-17
Fort Scott	S37A	Kansas,U.S.A.	37.7597N	94.8279W	260	From 2010-06-21 to 2012-03-03
Fort Shafter	SFTX	Texas,U.S.A.	29.9255N	104.3696W	1384	
Fort Sherman	FH-	Panama	9.3631N	79.9583W	15	From 1966-11-14 to 1966-12-20
Fort Sherman	FH-PM	Panama	9.3631N	79.9583W	15	From 1966-11-14 to 1966-12-20
Fort Simpson	FST	Northwest Territories,Canada	61.8400N	121.2750W	175	From 1986-01-09
Fort Simpson	FST1	Northwest Territories,Canada	61.7858N	121.2590W	175	From 1985-10-06 to 1986-01-09
Fort Smith	FSMA	Alberta,Canada	59.9862N	111.8218W	187	From 2010-09-12
Fort Stockton	FO-	Texas,U.S.A.	30.9017N	102.6978W	880	From 1964-06-21 to 1965-04-12
Fort Stockton	FO-TX	Texas,U.S.A.	30.9017N	102.6978W	880	From 1964-06-21 to 1965-04-12
Fort Tejon	FTC	California,U.S.A.	34.8708N	118.8918W	942	From 1952-11-21
Fortuna	FORC	Costa Rica	10.4665N	84.6698W	286	
Fortuna	FTA	Panama	8.6815N	82.2647W	629	
Fortuna Mine	FTM	Arizona,U.S.A.	32.5548N	114.3340W	263	From 1975-07-01 to 2009-04-08
Fort Valley	153A	Georgia,U.S.A.	32.6499N	83.8316W	160	From 2012-03-19
Fort Yukon	FY2	Alaska,U.S.A.	67.1245N	147.0970W	671	From 1975-09-01
Fort Yukon	FYU	Alaska,U.S.A.	66.5660N	145.2320W	137	From 1972-02-09
Fort Yukon	FY3	Alaska,U.S.A.	68.1472N	145.7000W	1439	From 1975-09-01 to 1978-08-14
Fort Yukon	FY5	Alaska,U.S.A.	67.1400N	143.2500W	558	From 1975-09-01
Fort Yukon	FY1	Alaska,U.S.A.	67.2667N	148.9700W	939	From 1975-09-01
Fort Yukon	FY4	Alaska,U.S.A.	67.4533N	146.2100W	792	From 1975-09-01 to 1978-08-14
Fosdinovo	FOSD	Italy	44.1076N	9.9971E	60	From 2013-06-23 to 2013-09-06
Fosdinovo	FS1	Italy	44.1267N	10.0250E		
Fosdinovo	FSI	Italy	44.1261N	10.0253E	0	From 1977-01-01 to 1979-12-31
Fossato di Vico	FOSV	Italy	43.2948N	12.7612E	559	From 2011-10-01
Fossombrone	FSSB	Italy	43.6922N	12.7775E	498	
Fouillouse	FOUF	Provence-Cote d'Azur,France	44.5292N	6.7819E		From 1983-01-01
Foulwind	FLW	South Island,New Zealand	41.7522S	171.5000E	20	From 1968-05-24 to 1968-07-02
Foumbot	FBT	Cameroon	5.4690N	10.5710E	1040	From 1987-02-17
Fountain	I45A	Michigan,U.S.A.	44.0361N	86.2348W	215	From 2012-11-05
Fountain Green	P16A	Utah,U.S.A.	39.6092N	111.6595W	1822	From 2007-05-28 to 2009-04-11
Fountain Ranch, Boone	R25A	Colorado,U.S.A.	38.1474N	104.2834W	1461	From 2008-06-04 to 2010-04-21
Fountain Ranch, Mena	X39A	Arkansas,U.S.A.	34.5105N	94.1138W	326	From 2011-01-29 to 2012-11-07
Fourare	FOE	Morocco	31.9880N	9.2610W		
Four Mile Canyon	FMC	Oregon,U.S.A.	45.6244N	120.0280W	305	From 1975-11-01
Fournols	FRNF	Limousin,France	45.3867N	2.5627E	670	
Fourpeaked Station 1	FOSS	Alaska,U.S.A.	58.7994N	153.6950W	546	
Fourpeaked Station 2	FONW	Alaska,U.S.A.	58.8348N	153.9184W	905	
Fourpeaked Volcano	FOPK	Alaska,U.S.A.	58.7580N	153.4739W	546	
Four Points	FPST	Tennessee,U.S.A.	35.9780N	89.4547W	106	
Four Seasons	FS03	Queensland,Australia	25.1068S	151.8667E	180	From 2001-02-16
Fox Airport	FOXC	California,U.S.A.	34.7443N	118.2326W	683	From 1981-03-01
Fox Creek	FXWY	Wyoming,U.S.A.	43.6381N	111.0268W	2254	
Fox Creek	FOX	California,U.S.A.	40.5212N	123.9920W	113	From 1974-06-19
Fox Den Farm, The Plains	Q58A	Virginia,U.S.A.	38.9413N	77.6820W	182	From 2013-06-21
Fox Glacier	FOZ	South Island,New Zealand	43.5321S	169.8155E	54	From 2004-10-13
Foz do Areia	FDA4	Parana,Brazil	26.1670S	51.7700W	0	
Foz do Areia	FDA5	Parana,Brazil	26.1498S	51.4552W	1000	From 1981-01-01
Foz do Areia	FDA	Parana,Brazil	25.9869S	51.5153W		From 1979-01-01
FP03	FP03	Karel'skaya,Russia	62.9310N	32.5330E	175	
FP05	FP05	Karel'skaya,Russia	62.2930N	32.1070E	160	
FR05	FR05	Karel'skaya,Russia	62.0040N	32.6750E	150	
Francis Marion National Forest	FMF	South Carolina,U.S.A.	32.9540N	79.8410W		From 1973-02-28 to 1973-10-02
Francis Peak	FPU	Utah,U.S.A.	41.0264N	111.8370W	2816	From 1974-09-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Franconia Notch	FNN	New Hampshire,U.S.A.	44.1600N	71.6817W	1060	From 1967-01-01 to 1975-12-31
Frandzen Federal Estate	FNF	California,U.S.A.	38.7707N	122.7657W	870	
Frank Field Bay, Greenland	FFBG	Greenland	82.1294N	56.0364W	20	From 2004-07-27
Frankford	I55A	Ontario,Canada	44.2161N	77.6817W	132	From 2012-11-15
Franklin	FN-WV	West Virginia,U.S.A.	38.5494N	79.5131W	910	From 1964-05-04 to 1965-11-12
Franklin	FKO	Oklahoma,U.S.A.	35.2613N	97.3861W	351	From 1987-01-01
Franklin	Z51A	Georgia,U.S.A.	33.3167N	85.1747W	249	From 2012-04-07
Franklin	FN-	West Virginia,U.S.A.	38.5494N	79.5131W	910	From 1964-05-04 to 1965-11-12
Franklin	FNO	Oklahoma,U.S.A.	35.2571N	97.4006W	357	From 1992-04-28
Franklin Camp	FCBC	British Columbia,Canada	48.9742N	124.7358W	255	From 2006-12-19 to 2007-02-15
Franklin College	FMPA	Pennsylvania,U.S.A.	40.0478N	76.3208W	121	
Franklin Falls Dam	FFD	New Hampshire,U.S.A.	43.4701N	71.6533W	131	
Frank Sound, Grand Cayman	FSCY	Cayman Islands	19.3129N	81.1835W	1	From 2011-01-01
Franktown	FK-	Colorado,U.S.A.	39.5867N	104.4617W	1803	From 1966-11-17 to 1967-06-26
Franktown	FK-CO	Colorado,U.S.A.	39.5867N	104.4617W	1803	From 1966-11-17 to 1967-06-26
Fraticciola Selvatica (Perugia) - PG	AT08	Italy	43.1834N	12.5482E	608	From 2010-04-01
Frazione Salia	C004	Italy	43.4481N	12.5161E	814	From 2011-02-09
Frdhf. Weidikon, ZR	EWZT1	Switzerland	47.3728N	8.5087E	410	From 2009-08-25
Frederick Butte	VFBM	Oregon,U.S.A.	43.6585N	120.2370W	1369	
Fred Haigh	FRED	Queensland,Australia	24.8985S	151.8970E	120	
Freedom	FDKY	Kentucky,U.S.A.	36.7900N	85.7942W	306	From 1987-03-27
Freed Ranch, Watford	C25A	North Dakota,U.S.A.	47.7124N	103.2558W	700	From 2009-07-25 to 2011-08-24
Fregona	FRE8	Italy	46.0150N	12.3552E	543	From 2011-03-31
Freiberg	FBE	Sachsen,Germany	50.9212N	13.3541E	44	From 2004-10-01
Freiburg im Breisgau	FBB	Baden-Wurttemberg,Germany	48.0016N	7.8532E	258	From 1994-01-01
Fremont	M50A	Ohio,U.S.A.	41.4035N	83.0428W	176	From 2012-07-18
Fremont Peak	HFPM	California,U.S.A.	36.7537N	121.4900W	705	From 1970-09-02
Fremont Peak	FRP	California,U.S.A.	36.7537N	121.4900W	705	From 1970-09-02
Frenchman Hills East	FHE	Washington,U.S.A.	46.9519N	119.4969W	455	
French Village	FVM	Missouri,U.S.A.	37.9840N	90.4260W	310	From 1972-09-01
Frenkendorf	SFRA	Switzerland	47.5036N	7.7091E	350	From 2007-12-31
Fresagrandinaria	FRES	Italy	41.9735N	14.6693E	414	From 2004-09-14
Fresno	FRE	California,U.S.A.	36.7683N	119.7970W	88	From 1935-11-28 to 1971-03-02
FREYUNG INFRASONIC ARRAY REFERENCE POINT	I26DE	Bayern,Germany	48.8516N	13.7131E	1111	From 2000-05-16
Friant	FRI	California,U.S.A.	36.9917N	119.7080W	119	From 1971-01-01
Friburgo-RJ	DUB01	Rio de Janeiro,Brazil	22.0810S	42.3742W	623	From 2011-01-30
Frijoles Canyon	FCN	New Mexico,U.S.A.	35.7719N	106.2500W	1945	From 1973-05-07 to 1973-07-31
Frink	FRK	California,U.S.A.	33.4021N	115.6384W	60	
Frissel Point	FRIS	Oregon,U.S.A.	44.2122N	122.1005W	1642	
Frobisher Bay	FRB	Northwest Territories,Canada	63.7467N	68.5467W	18	From 1972-11-30
Frobisher Bay	FBN	Northwest Territories,Canada	63.7467N	68.5467W	18	From 1972-09-14
Frobisher Bay	FBC	Northwest Territories,Canada	63.7333N	68.4667W	45	
Froelich Ranch	FROB	California,U.S.A.	35.9109N	120.4869W	231	
Frontone	FRON	Italy	43.5178N	12.7257E	515	From 2010-04-19
Front Royal	FTV	Virginia,U.S.A.	38.8661N	78.1689W	341	
Frosini	FROS	Italy	43.2097N	11.1562E	431	From 2010-05-17
Froya	FRO	Norway	61.7570N	4.8820E	20	
Fruitdale	H25A	South Dakota,U.S.A.	44.6215N	103.5981W	942	From 2009-06-19 to 2011-08-23
Fruska Gora	FGSL	Serbia	45.1571N	19.8104E	500	From 2006-01-01
Fruska Gora	FRGS	Serbia	45.1577N	19.8102E	500	From 2005-12-15
Fry Pan Ranch, Harper	J09A	Oregon,U.S.A.	43.3471N	117.7542W	1303	From 2006-08-07 to 2008-07-11
Fube	FUB	Shimane,Japan	35.2838N	133.1560E	190	From 1968-12-15 to 1975-05-01
Fuego	FGO	Guatemala	14.4457N	90.8405W	1410	From 1973-02-01
Fuego 2	FGO2	Guatemala	14.4387N	90.8358W	1335	From 1986-07-01
Fuego 3	FUG	Guatemala	14.4478N	90.8420W	1505	From 1987-03-01
Fuente Hervidero	AFUE	Spain	37.1133N	3.5068W	1586	
Fuerteventura	CFTV	Canary Islands,Spain	28.4138N	14.0833W	540	From 1985-12-01
Fuerteventura	CFUE	Canary Islands,Spain	28.6468N	13.9359W	180	From 2004-11-17
Fuhringer Ranch, Dutton	C16A	Montana,U.S.A.	47.8012N	111.7458W	1240	From 2007-09-02 to 2009-08-12
Fuji-kawa	FUJ	Yamanashi,Japan	35.2312N	138.4715E	140	
Fujikirizawa	K11	Iwate,Japan	39.4783N	141.5325E	527	
Fujinakano	JFNN	Shizuoka,Japan	35.1940N	138.6852E	167	From 2012-11-01
Fukue	FKJ	Nagasaki,Japan	32.6933N	128.8267E	26	
Fukue jima 2	JFU	Nagasaki,Japan	32.6555N	128.7495E	120	
Fukui	FKJD	Fukui,Japan	36.0941N	136.1233E	90	
Fukui	FUK	Fukui,Japan	36.0533N	136.2270E	10	
Fukuoka	FKK	Fukuoka,Japan	33.5800N	130.3800E	3	
Fukushima	FKS	Fukushima,Japan	37.7567N	140.4750E	69	
Fukushimafurudono	JFFD	Fukushima,Japan	37.0908N	140.5612E	354	From 2012-07-01
Fulgham	FMKY	Kentucky,U.S.A.	36.6640N	88.9090W	152	From 1986-10-30
Fuli	FULB	Taiwan region	23.1986N	121.2939E	376	From 2003-12-12
Fuller Ranch	FRTX	Texas,U.S.A.	32.9388N	100.8480W	689	From 1979-01-01 to 2003-01-28
Fullerton	FULC	California,U.S.A.	33.8717N	117.9225W	51	
Fullerton Airport	FLAS	California,U.S.A.	33.8713N	117.9750W	-400	From 1986-09-12
Fulton Ridge, Patton	S43A	Missouri,U.S.A.	37.5716N	90.0754W	263	From 2011-05-21 to 2013-04-14
Fumarole	FUM	California,U.S.A.	38.7932N	122.7879W	673	
Funafuti	FUNA	Tuvalu (Ellice Islands)	8.5259S	179.1966E	-1	
Funaoka	FOTD	Tottori,Japan	35.3305N	134.2672E	200	
Funatsu	FUN	Yamanashi,Japan	35.4983N	138.7630E	860	
Funchal	FUL	Madeira Islands,Portugal	32.6476N	16.8922W	58	From 1973-12-07
Funeral Mountains	FMT	California,U.S.A.	36.6375N	116.7826W	1079	From 1978-11-28
Funks Creek	GFC	California,U.S.A.	39.3266N	122.2889W	64	
FUNVISIS	FUNV	Venezuela	10.4690N	66.8100W	918	From 2000-08-09
Fuquene	FUQ	Colombia	5.4700N	73.7381W	2580	From 1957-12-01
Furan	JFR	Kamikawa,Japan	43.1635N	142.5935E	360	
Furi	FURI	Ethiopia	8.8967N	38.6783E	2560	
Furnace Creek,Death Valley	FURC	California,U.S.A.	36.4670N	116.8632W	-37	From 1996-11-19
Furnas	FRA	Azores,Portugal	37.7593N	25.3533W	557	From 1981-01-01
Furnas	FRA1	Azores,Portugal	37.7430N	25.3568W	555	From 2004-03-01
Furstenfeldbruck	FUR	Bayern,Germany	48.1655N	11.2763E	565	From 1996-11-19
Furth	WBA	Hessen,Germany	49.6544N	8.8183E	483	From 2001-10-25
Furtwangen	FWS	Baden-Wurttemberg,Germany	48.0530N	8.1976E	925	From 1969-03-01
Furusato	FURD	Kagoshima,Japan	31.5608N	130.6614E	360	
Fuscaldo	FSC	Italy	39.4189N	16.0425E	54	
Fusea	FUSE	Italy	46.4142N	13.0011E	520	From 2007-12-13
Fushiki	HKI	Toyama,Japan	36.7833N	137.0500E		
Fush Village	ETL	Taiwan region	24.1590N	121.6230E	415	From 1998-08-07
Fusio	FUSIO	Switzerland	46.4549N	8.6632E	1480	From 1999-08-16
Futaleuf""	LL02	Los Lagos	43.1906S	71.8484W	368	From 2014-09-12
Futaleufu@15	FUTA	Chile	43.1886S	71.8525W	354	
Futatsui	FUT	Akita,Japan	40.1467N	140.2167E	140	From 1967-12-29
Futbol	FUTB	Turkey	40.8649N	28.9934E	32	From 2006-09-26
FVAF	FVAF	Finland	63.0420N	22.6180E	55	
Fytoko, Volos	FYTO	Greece	39.4086N	22.9396E	192	From 2008-07-01
G1948 Merrick Township	E51A	Ontario,Canada	46.5333N	79.4924W	369	From 2012-10-21
G1974 Best Township, ON	D50A	Ontario,Canada	47.1668N	79.8412W	331	From 2012-10-19
Gabala	QBL	Azerbaijan	40.9460N	47.8370E	670	From 2011-04-22
Gabal Elzet	ZEIT	Egypt	27.8698N	33.5388E	232	
Gabbs	Q08A	Nevada,U.S.A.	38.8606N	117.9316W	1411	From 2006-03-02 to 2008-03-14
Gabbs	GAB	Nevada,U.S.A.	38.9752N	117.9130W		
Gabel Atot	ATOT	Egypt	28.1698N	33.8603E		
Gable Butte	GBB	Washington,U.S.A.	46.6082N	119.6270W	177	
Gable Mountain	GBL	Washington,U.S.A.	46.5983N	119.4600W	330	From 1969-03-01
Gabriel Gonzalez Videla	GGV	Antarctic Peninsula	64.8199S	62.8633W		
Gabriels	H58A	New York,U.S.A.	44.4176N	74.1798W	537	From 2013-08-25
Gafsa	GAF	Tunisia	34.4167N	8.8000E	314	From 1976-01-01
Gafsa	GFA	Tunisia	34.3382N	9.7265E	250	
Gaggia	GAGG	Italy	46.0835N	10.9587E	1617	From 2012-11-19
Gagliano Castelferrato	GALF	Italy	37.7107N	14.5665E	740	From 2006-10-27
Gagliole	GAG1	Italy	43.2381N	13.0674E	460	From 2011-03-15
Gaibana	GBAN	Nepal	28.6800N	81.6140E	2120	
Gaighat	GAIG	Nepal	26.8380N	86.6318E	166	From 2001-10-14 to 2002-06-03
Gainesville	GAI	Florida,U.S.A.	29.6458N	82.3394W	50	
Gaiserwald	SGT01	Switzerland	47.4316N	9.3185E	813	From 2012-01-15
Gala	GALA	Azerbaijan	40.4100N	50.1550E	22	From 2003-08-01
Gala Law	EGL1	Scotland,United Kingdom	55.8611N	2.7425W	245	
Gala Law	EGL	Scotland,United Kingdom	55.8617N	2.7383W	245	From 1969-01-01 to 1981-11-27
Galapagos Islands	GIE	Galapagos,Ecuador	0.7333S	90.3000W	30	From 1960-01-01
Galati	GISR	Romania	45.4411N	28.0541E	67	From 2013-04-17

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Galatos Road	GRRZ	North Island,New Zealand	38.3497S	176.1099E	522	From 2009-11-12
Galela, Maluku	GAMI	Moluccas,Indonesia	1.8381N	127.7879E	130	From 2008-12-01
Galena City School	GCSA	Alaska,U.S.A.	64.7461N	156.8792W	46	
Galera	GALE	Ecuador	0.8213N	80.0133W	25	From 1991-11-03 to 1992-04-28
Galerazamba	GAL	Colombia	10.7856N	75.2622W	21	From 1949-04-01
Gales Ferry	M63A	Connecticut,U.S.A.	41.4038N	72.0464W	44	From 2013-09-07
Galeton	GT-PA	Pennsylvania,U.S.A.	41.6317N	77.8111W	610	From 1962-05-31 to 1962-06-28
Galeton	GT-	Pennsylvania,U.S.A.	41.6317N	77.8111W	610	From 1962-05-31 to 1962-06-28
Galiano Island	GOBB	British Columbia,Canada	48.9493N	123.5105W	161	
Galiano Island	GOB	British Columbia,Canada	49.0122N	123.5830W	10	
Galich'ya Gora	LPSR	Voronezhskaya Oblast',Russia	52.6012N	38.9282E	136	From 2007-08-05
Galileo	GALC	California,U.S.A.	35.2137N	117.7547W	980	
Galion	GZ-OH	Ohio,U.S.A.	40.6600N	82.7833W	372	
Gallatin	GLT	Tennessee,U.S.A.	36.3620N	86.4980W	159	From 1981-11-10
Galloway	GAL1	Scotland,United Kingdom	54.8664N	4.7114W	117	From 1989-01-01
Galoa	NGA	Fiji	18.1919S	177.9979E	396	From 1979-10-01
Galt	O38A	Missouri,U.S.A.	40.1215N	93.4731W	266	From 2010-11-18 to 2012-09-27
Galvasay	GAY	Uzbekistan	41.5333N	69.9000E		
Gambarie	GMB	Italy	38.1681N	15.8289E	1300	
Gambatesa	GATE	Italy	41.5131N	14.9102E	487	From 2009-11-03
Gambell	GAMB	Alaska,U.S.A.	63.7767N	171.7008W	10	
Gameti Lake	GALN	Yukon Territory,Canada	64.1167N	117.3143W	340	
Ganado	V18A	Arizona,U.S.A.	35.7113N	109.9327W	1977	From 2007-05-11 to 2009-02-07
Ganagobie	GANF	Provence-Cote d'Azur,France	43.9976N	5.9087E	650	
Ganaly	GNL	Kamchatskaya Oblast',Russia	53.6950N	157.9419E	1200	
Gandia	EXGA	Spain	38.9660N	0.1780W	40	From 2003-09-24
Gandoh	GANDO	Jammu and Kashmir	33.0328N	75.9133E	1591	
Ganghwa	KSGAH	Republic of Korea	37.7076N	126.4465E	62	From 2009-01-01
Gangneung	KSKAN	Republic of Korea	37.7425N	128.8893E	25	From 2001-12-15
Gangseo	KSGSG	Republic of Korea	37.5485N	126.8446E	67	From 2007-12-12
Ganja	GANJ	Azerbaijan	40.6460N	46.3220E	574	From 2003-01-01
Ganja	KRV	Azerbaijan	40.6280N	46.3100E	532	From 1950-01-01
Ganjari	GJRN	Nepal	29.4800N	80.7400E	2934	
Ganki	GNK	Aomori,Japan	40.7322N	140.3366E	100	
Ganzirri	GZI	Sicily,Italy	38.2647N	15.6086E		
Gaotai	GTA	Gansu,China	39.4106N	99.8144E	1341	
Garchy	GRC	Bourgogne,France	47.2956N	3.0736E	191	From 1957-11-22
Gardenia Lake, NWT	GDLN	Northwest Territories,Canada	62.0199N	105.9943W	385	From 2008-07-16
Garden Prairie	L43A	Illinois,U.S.A.	42.1833N	88.7423W	266	From 2011-09-17 to 2013-06-14
Gard house	GARD	Turkey	40.8660N	28.9938E	7	From 2006-09-26
Gardner Draw, Artesia	125A	New Mexico,U.S.A.	32.6588N	104.6573W	1212	From 2008-03-13 to 2010-02-18
Gardner Farm	GRD	Utah,U.S.A.	40.5983N	111.9258W	1323	
Gardner Place, Afton	K17A	Wyoming,U.S.A.	42.7507N	110.9201W	1922	From 2007-11-03 to 2009-05-16
Gareloi East	GAEA	Alaska,U.S.A.	51.7830N	178.7468W	326	
Gareloi-Kavalga I.	GAKI	Alaska,U.S.A.	51.5544N	178.8121W	99	
Gareloi Lava Pt.	GALAA	Alaska,U.S.A.	51.7618N	178.7715W	315	
Gareloi North	GANO	Alaska,U.S.A.	51.8203N	178.8038W	451	
Gareloi Northeast	GANE	Alaska,U.S.A.	51.8189N	178.7767W	322	
Gareloi Southwest	GASW	Alaska,U.S.A.	51.7789N	178.8546W	248	
Gariep Dam	HVD	South Africa,South Africa	30.6050S	25.4967E	1433	
Garland	GL-	Texas,U.S.A.	32.9722N	96.6350W	168	
Garland	GL-TX	Texas,U.S.A.	32.9722N	96.6350W	168	
Garm	GAR	Tajikistan	39.0000N	70.3167E	1305	From 2005-10-22
Garm	GAM	Tajikistan	39.0000N	70.3167E	1305	
Garmisch-Partenkirchen	GAPA	Bayern,Germany	47.4970N	11.1170E	760	From 1991-01-01
Garmisch-Partenkirchen	GAP	Bayern,Germany	47.4767N	11.0644E	725	From 1973-06-01 to 2004-08-13
Garmisch-Partenkirchen	PART	Bayern,Germany	47.4970N	11.1130E	760	From 2003-01-01
Garner Mountain	LGMM	California,U.S.A.	41.5997N	121.8350W	1560	From 1988-10-23
Garner Valley	GVDA	California,U.S.A.	33.6689N	116.6738W	1341	
Garnes Mountain	GMI	Idaho,U.S.A.	43.7065N	111.3430W	2630	From 1974-06-01 to 1980-07-24
Garnett, Star City	Y42A	Arkansas,U.S.A.	33.8364N	91.7871W	77	From 2011-04-08 to 2013-02-16
Garni	GNI	Armenia	40.1495N	44.7414E	1583	From 1992-01-01
Garraf	CGAR	Spain	41.2944N	1.1339E	584	
Garret Mountain	GMTN	New Jersey,U.S.A.	40.8825N	74.1845W	165	From 1978-04-25
Garrett	L23A	Wyoming,U.S.A.	42.1143N	105.7012W	2153	From 2008-07-17 to 2010-05-14
Garrison	GARN	New York,U.S.A.	41.3603N	73.9240W	207	
Garrison Hill	GHW	Washington,U.S.A.	47.0417N	122.2720W	268	From 1975-09-24
Garrygala	GARG	Turkmenistan	38.4390N	56.2730E	315	
Garurganga	GARI	Uttar Pradesh,India	30.4525N	79.4445E	1500	From 1986-07-26
Garvey Reservoir	GVRC	California,U.S.A.	34.0497N	118.1199W	141	From 1987-10-08
Gary	239A	Texas,U.S.A.	32.0179N	94.4707W	100	From 2010-02-21 to 2011-12-11
Gary Mavity, Velonia	W41B	Arkansas,U.S.A.	35.1736N	92.2479W	95	From 2011-04-07
Garzon, Huila	GARC	Colombia	2.1870N	75.4930W	1999	From 2014-02-27
Gasbuggy	GB-NM	New Mexico,U.S.A.	36.6869N	107.2261W	2164	
Gaspe, Quebec	GASG	Quebec,Canada	48.9463N	66.1161W	261	From 2005-10-25
Gateway	GACO	Colorado,U.S.A.	38.6844N	108.9737W	1414	
Gauribidanur Array	GBA	Karnataka,India	13.6042N	77.4361E	686	From 1965-01-01
Gaurikund	GKD	Himachal Pradesh,India	30.6213N	79.0029E	1760	From 2007-05-01
Gavdhos	GVD	Crete,Greece	34.8391N	24.0874E	180	
Gavdhos	GAVD	Crete,Greece	34.8432N	24.0862E	175	
Gavdos	GVDS	Crete,Greece	34.8435N	24.0902E	164	From 2007-05-01
Gavelli	GAVE	Italy	42.6922N	12.8942E	1161	From 2006-09-26
Gavello, Mirandola (MO)	MIR04	Italy	44.9275N	11.1783E	8	From 2012-05-24
Gavieira, Arcos de Valdevez	PGAV	Portugal	41.9653N	8.2698W	1084	From 2008-10-27
Gavin Park	CGPM	California,U.S.A.	37.6453N	122.0100W	366	
Gaylord	GY-MN	Minnesota,U.S.A.	44.5047N	94.0547W	305	From 1962-07-05 to 1962-07-11
Gaylord	GY-	Minnesota,U.S.A.	44.5047N	94.0547W	305	From 1962-07-05 to 1962-07-11
Gaynekanda	GNKN	Nepal	28.6330N	81.3310E	1334	
Gaziantep	GAZ	Turkey	37.1721N	37.2113E	864	From 1989-07-01
Gaziantep	GZT	Turkey	37.3553N	37.5641E	1446	From 2002-03-01
Gaziantep	GZTT	Turkey	37.0361N	37.3125E	850	From 1992-01-01
Gaziantep	SOFT	Turkey	37.1278N	37.3458E	1209	From 1998-02-11 to 2002-08-07
Gazikoy-Tekirdag	GZKV	Turkey	40.7478N	27.3274E	30	From 2014-10-25
Gazipasa	GAZI	Turkey	36.2347N	32.3157E	394	From 2008-03-06
Gaz Metro	LNGQ	Quebec,Canada	45.6564N	73.5284W	25	From 1988-01-01
Gazzo Veronese (Italy)	GAZZ	Italy	45.1134N	11.0950E	12	From 2009-12-04
Gebbies Pass	GPZ	South Island,New Zealand	43.6946S	172.6446E	225	From 1956-11-20 to 1977-10-31
Gebel Alisa	AGAL	Egypt	23.4285N	32.8255E		
Gebel Marawa	AGMR	Egypt	23.5377N	32.5405E	237	
Gebel Rewraw	AGRW	Egypt	23.6450N	32.8097E		
Gebze	GEB	Turkey	40.8186N	29.4222E	240	From 1979-12-01 to 1999-08-25
Gebze	GBZT	Turkey	40.7889N	29.4450E	184	
Gebze-Kocaeli	LAFA	Turkey	40.7598N	29.3555E	38	From 2011-01-01
GEDABAY	GDB	Azerbaijan	40.7210N	45.7540E	1643	From 2010-12-22
Geddes	J31A	South Dakota,U.S.A.	43.2915N	98.7396W	491	From 2010-07-31 to 2012-05-18
Gedeh	GED	Jawa,Indonesia	7.8333S	113.8330E		
Gedikpinar	GEDT	Turkey	39.9737N	29.7232E	700	From 1994-01-01
Gediz	GDZ	Turkey	39.0888N	29.4811E	1367	From 2005-01-17
Gediz	GEDZ	Turkey	39.0444N	29.4104E	883	From 2010-10-21
Geehi	GEE	New South Wales,Australia	36.4197S	148.1830E	480	From 1958-01-01 to 1968-12-31
Gees Lookout	GEES	Tasmania,Australia	41.4453S	147.1236E	70	From 1995-04-07
Gegechkori	GEG	Georgia,Georgia	42.3500N	42.3833E	180	From 1957-01-01
Geita	GEIT	Tanzania,United Republic of Tanzania	2.8815S	32.2168E	1276	
Gemlik	GEMT	Turkey	40.4350N	29.1890E	220	From 2006-07-07
Gemona	GEPF	Italy	46.2750N	13.1386E	12	From 2008-07-17
Gemona	GMNA	Italy	46.2750N	13.2369E	270	
General Santos	GTP	Mindanao,Philippines	6.1333N	125.2167E		
General Santos City	GSPH	Mindanao,Philippines	6.0870N	124.9490E	1050	
Geneseo	GENY	New York,U.S.A.	42.7670N	77.8170W	0	From 2001-10-27 to 2007-07-02
Gen˜ve, Vieux-Billard	SGEV	Switzerland	46.2006N	6.1367E	373	From 2011-05-01
Genf, Marziano	SGEM	Switzerland	46.1927N	6.1304E	377	From 1992-06-05
Gennadi, Rhodes Island	RGE1	Greece	36.0269N	27.9305E	5	From 2012-08-01
Geno	GENO	Iran	27.4000N	56.1723E	1616	From 2010-04-30
Genoa	GNO	Nevada,U.S.A.	38.9292N	119.8530W	1646	
Genova	GEN	Italy	44.4181N	8.9301E	53	From 1963-01-01 to 1995-12-31
Genova University	GENL	Italy	44.4057N	8.9697E	80	From 1995-09-01
Genta-Ana	GENH	Iburi,Japan	42.5513N	140.8532E	150	
Gentilly	GNT	Quebec,Canada	46.3628N	72.3722W	10	From 1978-04-06
Gentvishi	GTS	Georgia,Georgia	43.3828N	41.2820E	740	From 2006-09-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Genyem	GENI	Irian Jaya,Indonesia	2.5927S	140.1678E	45	From 2009-11-24
Geochang	KSKUC	Republic of Korea	35.6676N	127.9079E	220	From 2000-02-24
Geochang	KSKCH	Republic of Korea	35.6140N	127.9188E	420	From 2006-12-30
Geological Survey, Reston	GSR	Virginia,U.S.A.	38.9479N	77.3696W	119	From 1975-06-01
Geophysical Institute, University of Alaska	GIA	Alaska,U.S.A.	64.8600N	147.8350W	158	From 1969-06-01 to 1971-01-31
George	J34A	Iowa,U.S.A.	43.2844N	95.9579W	432	From 2010-07-30 to 2012-05-17
Georgetown	Q50A	Ohio,U.S.A.	38.8436N	83.9790W	262	From 2012-06-24
Georgetown	GEO	District of Columbia,U.S.A.	38.9000N	77.0667W	29	From 1911-01-01
Georgetown	GTD	Delaware,U.S.A.	38.7414N	75.4144W	15	From 1977-01-01 to 1999-01-31
Georgetown Playfield ANSS-SMO	GTWN	Washington,U.S.A.	47.5512N	122.3220W	25	From 2004-08-01
Georgetown, SC	Z59A	South Carolina,U.S.A.	33.2414N	79.2780W	8	From 2013-02-23
Georgiana Molloy Anglican School, Busselton	AUBUS	West Australia,Australia	33.6600S	115.3800E	13	From 2012-09-26
GEORG VON NEUMAYER INFRASONIC ARRAY REFERENCE POINT	GEREF	Queen Maud Land	70.7011S	8.3029W	57	From 2009-07-01
Geraldton	GTO	Ontario,Canada	49.7450N	86.9617W	350	
Gerania Oros	MGER	Greece	37.9860N	23.2602E	600	
Gerede-Bolu	GRDE	Turkey	40.7995N	32.2116E	1350	From 2012-11-12
GERESS Array Beam Reference Point	GERES	Bayern,Germany	48.8451N	13.7016E	1137	
GERESS Array Site A0	GEA0	Bayern,Germany	48.8368N	13.7019E	1027	
GERESS Array Site A1	GEA1	Bayern,Germany	48.8363N	13.7039E	1009	
GERESS Array Site A2	GEA2	Bayern,Germany	48.8386N	13.7018E	1059	
GERESS Array Site A3	GEA3	Bayern,Germany	48.8350N	13.7000E	1017	
GERESS Array Site B1	GEB1	Bayern,Germany	48.8389N	13.7075E	1015	
GERESS Array Site B2	GEB2	Bayern,Germany	48.8395N	13.6986E	1092	
GERESS Array Site B3	GEB3	Bayern,Germany	48.8369N	13.6960E	1058	
GERESS Array Site B4	GEB4	Bayern,Germany	48.8327N	13.6989E	1006	
GERESS Array Site B5	GEB5	Bayern,Germany	48.8346N	13.7059E	976	
GERESS Array Site C1	GEC1	Bayern,Germany	48.8412N	13.7099E	1027	
GERESS Array Site C2	GEC2	Bayern,Germany	48.8451N	13.7016E	1137	
GERESS ARRAY SITE C2A	GEC2A	Bayern,Germany	48.8451N	13.7016E	1127	From 2008-08-12
GERESS ARRAY SITE C2B	GEC2B	Bayern,Germany	48.8451N	13.7016E	1127	From 2008-08-12
GERESS Array Site C3	GEC3	Bayern,Germany	48.8424N	13.6917E	1075	
GERESS Array Site C4	GEC4	Bayern,Germany	48.8352N	13.6875E	1103	
GERESS Array Site C5	GEC5	Bayern,Germany	48.8296N	13.6957E	1009	
GERESS Array Site C6	GEC6	Bayern,Germany	48.8268N	13.7091E	942	
GERESS Array Site C7	GEC7	Bayern,Germany	48.8354N	13.7145E	986	
GERESS Array Site D1	GED1	Bayern,Germany	48.8518N	13.7148E	1060	
GERESS Array Site D2	GED2	Bayern,Germany	48.8532N	13.6964E	999	
GERESS Array Site D3	GED3	Bayern,Germany	48.8465N	13.6818E	949	
GERESS Array Site D4	GED4	Bayern,Germany	48.8386N	13.6796E	1039	
GERESS Array Site D5	GED5	Bayern,Germany	48.8246N	13.6807E	1085	
GERESS Array Site D6	GED6	Bayern,Germany	48.8194N	13.6966E	1083	
GERESS Array Site D7	GED7	Bayern,Germany	48.8209N	13.7159E	959	
GERESS Array Site D8	GED8	Bayern,Germany	48.8332N	13.7261E	938	
GERESS Array Site D9	GED9	Bayern,Germany	48.8434N	13.7238E	987	From 1992-01-01
Gerfalco	GRFL	Italy	43.1475N	10.9764E	770	
Gerlach	N07A	Nevada,U.S.A.	40.7721N	118.9716W	1305	From 2006-02-21 to 2006-04-27
Gerlach	N07B	Nevada,U.S.A.	40.7797N	118.9711W	1302	From 2006-04-27 to 2008-03-18
Germantown	GERM	New York,U.S.A.	42.1570N	73.8113W	88	
Germi	GRMI	Iran	38.8081N	47.8938E	1300	From 2004-08-01
Geronimo	Z18A	Arizona,U.S.A.	33.0851N	110.0362W	812	From 2007-03-09 to 2009-01-18
GE Springer Mine, Mill City	N08A	Nevada,U.S.A.	40.7811N	118.1337W	1492	From 2006-02-15 to 2008-03-20
Gesves	BGES	Belgium	50.3845N	5.0869E	295	From 1997-11-15
Geumsan	KSMSA	Republic of Korea	36.1058N	127.4815E	210	From 2011-10-05
Gevas	GEVA	Turkey	38.3122N	43.0586E	1672	From 2008-10-31
Gevers	GAUS	Turkmenistan	37.9320N	58.9100E	148	
Geyser Peak	GGPM	California,U.S.A.	38.7647N	122.8440W	1054	From 1975-04-18
Geysers	GDXM	California,U.S.A.	38.8078N	122.7947W	910	
Gezan	GEZ	Tajikistan	39.4000N	67.7000E		
Ghadhada	GDD	Gujarat,India	23.8700N	70.3700E	-48	From 2012-01-01
Ghaleghazi	IGHG	Iran	34.3294N	46.5685E	2090	From 2004-01-01
Ghaloghah	IGLO	Iran	36.5024N	53.8302E	1963	From 2000-08-01
Ghamsar	QAM	Iran	33.7606N	51.4397E	1864	From 1985-01-01
Ghanteswor	GHAN	Nepal	29.1800N	80.6300E	2450	From 1995-01-01
Ghardimaou	GHAT	Tunisia	36.4958N	8.3048E	400	
Gharib	GRB	Egypt	28.2705N	32.7859E	460	
Gharneh	IGAR	Iran	32.4038N	52.0418E	2020	From 2005-04-06
Gharyan	GHAR	Libya	32.1220N	13.0863E	709	
Ghazvin	IGZV	Iran	36.3859N	50.2184E	2100	From 1996-01-01
Ghdames	LGHD	Libya	30.0167N	9.4422E	600	
Ghir-Karzin	GHIR	Iran	28.2855N	52.9867E	1200	From 2004-05-11
GHOM	GHVR	Iran	34.4800N	51.2950E	924	From 2007-05-01
Ghor Haditha	GHAJ	Jordan	31.3034N	35.5665E	-61	From 2012-05-08
Ghuzeima	GHZJ	Jordan	30.5300N	36.3250E	1048	From 1990-01-12
Gialos, Santorini	SNT1	Greece	36.4159N	25.4282E	12	From 2011-07-07
Gibalbin	GIBL	Spain	36.8301N	5.9674W	374	
Gibilmanna	GIB	Sicily,Italy	37.9894N	14.0267E	1000	
Gibon Southern Titans, Haubstabt	R46A	Indiana,U.S.A.	38.2124N	87.5114W	164	From 2011-11-14
Gidamilanda	GIDA	Tanzania,United Republic of Tanzania	3.7368S	35.0643E	1047	
Gifford Fjord, Baffin Island, Nunavut	GIFN	Northwest Territories,Canada	69.9945N	81.6380W	92	From 2005-08-19
Gifu	GIF	Gifu,Japan	35.3983N	136.7650E	13	
Gilahina Butte	GLB	Alaska,U.S.A.	61.4418N	143.8100W	845	From 1973-08-25
Gila River Indian Community, Laveen	Z15A	Arizona,U.S.A.	33.2893N	112.1581W	318	From 2007-04-14 to 2008-12-05
Gilbert	GBT	Nevada,U.S.A.	38.1630N	117.6840W	2137	
Gilbert Hill	GHI	Idaho,U.S.A.	46.4702N	116.3190W	920	From 1971-10-01 to 1976-01-14
Gilboa	GILB	New York,U.S.A.	42.4230N	74.4527W	335	
Gilead	W57A	North Carolina,U.S.A.	35.1529N	79.9928W	85	From 2013-03-08
Gileppe	GIP	Belgium	50.5922N	5.9742E		
Giles	GLS	Western Australia,Australia	25.0353S	128.2960E	600	From 1974-10-01 to 1978-04-11
Gilgit	GLGT	Pakistan	35.9000N	74.3000E	1478	From 2010-06-30
Gilhagi	IGIL	Iceland	66.0770N	16.3510W	134	From 1993-10-23
Gilleleje	GID	Denmark	56.1270N	12.1788E	10	
Gillis	GILR	Nevada,U.S.A.	38.7313N	118.5347W	1676	
Gilmore City	K36A	Iowa,U.S.A.	42.6381N	94.4507W	364	From 2010-10-12 to 2012-10-23
Gilmore Creek	GIL	Alaska,U.S.A.	64.9750N	147.4950W	350	
Gilmore Dome	GLM	Alaska,U.S.A.	64.9873N	147.3890W	820	From 1968-08-01
Gilmore Dome	GLN	Alaska,U.S.A.	64.9873N	147.3890W	820	From 1968-08-01
Gilroy Hot Springs	GHS	California,U.S.A.	37.0958N	121.4470W	778	From 1971-09-03
Gilroy Springs	HGSM	California,U.S.A.	37.0958N	121.4470W	778	From 1971-09-03
Gilroy West	HGWM	California,U.S.A.	37.0170N	121.6530W	131	From 1975-10-02
Gimchen	KSGIC	Republic of Korea	36.0799N	128.1024E	123	From 2007-12-12
Ginetes	SET2	Azores,Portugal	37.8435N	25.8066W	525	From 1998-09-01
Gioiosa Marea	ME15	Italy	38.1708N	14.8988E	116	From 2008-05-13 to 2010-01-31
Gippayama	GPY	Nagano,Japan	36.3944N	138.5000E	2033	
Giralia	GIRL	Western Australia,Australia	22.6430S	114.2340E	111	From 1995-09-04
Girard	L53A	Pennsylvania,U.S.A.	41.9539N	80.2598W	355	From 2013-01-16
Girardeau Bridge	CBMO	Missouri,U.S.A.	37.3036N	89.5236W	102	
Girdled Road	CGRR	Ohio,U.S.A.	41.6787N	81.1418W	334	
Giresun/Alucra	ALUC	Turkey	40.3442N	38.7698E	1574	From 2014-12-09
GIRESUNGRSN	GRSN	Turkey	40.9244N	38.2681E	536	From 2005-08-09
Girifalco	GRI	Italy	38.8221N	16.4200E	510	
Girl Scout Camp	GSCY	New York,U.S.A.	41.2661N	74.0039W	110	
Giron, Santander	GIRC	Colombia	7.0788N	73.1935W	1164	From 2010-06-05
Girov	GIRR	Romania	46.9551N	26.5008E	334	From 2010-08-18
Gisborne	GNZ	North Island,New Zealand	38.6424S	178.0227E	30	From 1963-07-01 to 1990-03-07
Gissar	GIS	Tajikistan	38.4667N	68.5667E		
Giuliano Di Roma	GIUL	Italy	41.5583N	13.2546E	566	From 2002-06-12
Giurgiulesti	GIUM	Moldova	45.4850N	28.2081E	106	From 2007-07-27
Giv'at Ha'Em	GEM	Israel	33.2105N	35.6631E	223	From 2013-03-01
Giv'at Hamore	GVMR	Israel	32.6200N	35.3700E	90	From 1991-12-01
Givet	GIVF	Nord-Pas-de-Calais,France	50.1022N	4.8233E	295	From 1996-04-03
Gizo	GIZ	Solomon Islands,Papua New Guinea	8.0986S	156.8420E	20	
Gjilan	GJIK	Kosovo	42.4616N	21.4359E	630	From 2008-07-06
Glacier Island	GLC	Alaska,U.S.A.	60.8907N	147.0720W	3	From 1972-07-24 to 1984-09-17
Glacier Island	GLI	Alaska,U.S.A.	60.8797N	147.0940W	429	From 1984-09-18
Glacier Lake	GLK	Washington,U.S.A.	46.5639N	121.6090W	1320	
Glacier Peak	GC-WA	Washington,U.S.A.	48.1622N	121.2822W	671	From 1962-11-08 to 1962-12-12
Glacier Peak	GPW	Washington,U.S.A.	48.1179N	121.1379W	2354	
Glacier Peak	GC-	Washington,U.S.A.	48.1622N	121.2822W	671	From 1962-11-08 to 1962-12-12
Glacier Shelter	GSZ	North Island,New Zealand	39.2702S	175.5619E	2600	From 1976-06-01 to 1984-03-22

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Gladstone	GLAD	Tasmania,Australia	40.9844S	148.0086E	146	From 1996-01-01
Gladstone Plant	GLADS	Queensland,Australia	23.8697S	151.2681E	117	
Gladstone Soft Rock	GD1S	Queensland,Australia	23.8421S	151.1690E	27	From 2011-10-10
Gladstone Stream	GSP	South Island,New Zealand	44.1320S	170.0181E	840	From 1975-04-01 to 1978-04-09
Gladwin	I47A	Michigan,U.S.A.	44.0193N	84.5096W	269	From 2012-11-06
Glafira	VGL	Greece	39.4456N	22.8842E	424	From 1982-10-01
Glaisdale, N Yorkshire Moors	GDLE	England,United Kingdom	54.4218N	0.8157W	228	From 2012-01-26
Glamis	GLA	California,U.S.A.	33.0515N	114.8271W	610	From 1966-12-19
Glashutten	GHA	Austria	47.4625N	16.3881E	500	
Glass	GLAT	Tennessee,U.S.A.	36.2694N	89.2876W	120	
Glass	GLST	Missouri,U.S.A.	36.2691N	89.2877W	122	
Glebe high school	OTGH	Ontario,Canada	45.4014N	75.6969W	74	From 2001-12-18
Glehn	BA17	Nordrhein-Westfalen,Germany	51.2516N	6.3657E	65	From 2006-10-01
Glen Almond	GAC	Quebec,Canada	45.7033N	75.4783W	62	From 1979-10-26
Glen Avon	GAV	California,U.S.A.	34.0225N	117.5049W	262	From 1976-01-01
Glenbawn Bedrock	GBBM	New South Wales,Australia	32.0925S	150.9725E	275	
Glenbawn Dam	GBAM	New South Wales,Australia	32.1114S	150.9993E	293	
Glen Canyon	GCA	Arizona,U.S.A.	36.9736N	111.5931W	1339	From 1960-08-01 to 1999-08-25
Glen Canyon Dam (NPS), Page	T16A	Arizona,U.S.A.	36.9839N	111.5060W	1177	From 2007-03-17 to 2008-11-19
Glen Cove	GCY	New York,U.S.A.	40.8583N	73.6300W	43	From 1965-02-01
Glendale	K02A	Oregon,U.S.A.	42.7667N	123.4898W	963	From 2006-05-26 to 2007-11-28
Glendive	D24A	Montana,U.S.A.	47.1152N	104.3270W	766	From 2008-09-19 to 2010-08-03
Glendive	GI-MA	Montana,U.S.A.	47.1928N	104.2194W	732	From 1963-07-17 to 1964-08-05
Glendive	GI-	Montana,U.S.A.	47.1928N	104.2194W	732	From 1963-07-17 to 1964-08-05
Glenfield	GFW	South Island,New Zealand	41.4550S	173.8307E	230	From 1991-11-26 to 2004-05-16
Glengowla, Co Galway	IGLA	Ireland	53.4195N	9.3750W	30	
Glenifferbraes	PGBU	Scotland,United Kingdom	55.8115N	4.4837W	199	From 1990-01-01 to 1991-01-01
Glenmaggie	GLMM	Victoria,Australia	37.9020S	146.7990E	160	
Glenmuick	GLE	South Island,New Zealand	42.8983S	173.0951E	74	From 1932-01-01 to 1936-12-31
Glennies Creek Dam	GLNM	New South Wales,Australia	32.3662S	151.2464E	160	
Glennville	256A	Georgia,U.S.A.	31.9799N	81.8878W	46	From 2012-03-16
Glenroy	BGRQ	Queensland,Australia	20.5492S	147.1050E	160	From 1981-02-16
Glenside	GLEN	South Australia,Australia	34.9435S	138.6310E	70	From 2001-08-02
Glenview	GGLM	California,U.S.A.	38.8967N	122.7760W	893	From 1975-04-18
Glhisar (BURDUR)	GLHS	Turkey	37.1560N	29.4983E	1100	From 2005-04-08
Globe	GE-	Arizona,U.S.A.	33.7756N	110.5281W	1475	From 1964-04-09 to 1965-10-04
Globe	GE-AZ	Arizona,U.S.A.	33.7756N	110.5281W	1475	From 1964-04-09 to 1965-10-04
Glory Hole Creek	GHO	Alaska,U.S.A.	61.7722N	148.9240W	1021	From 1984-09-11
Gloucester	GLO	Massachusetts,U.S.A.	42.6403N	70.7272W	15	From 1975-08-01
Gloversville	GLOV	New York,U.S.A.	43.0895N	74.3320W	292	
Glow Worm Lake	GLWN	Northwest Territories,Canada	64.7253N	109.3304W	449	
Glumsstadir	IGLU	Iceland	64.9806N	15.0854W	115	From 2005-11-01
Gnd/Air Tx Cntr	GATR	California,U.S.A.	34.5527N	120.5024W	590	
Gnome	GN-NM	New Mexico,U.S.A.	32.2625N	103.8569W	1036	From 1962-01-08 to 1962-02-15
Gnome	GN-	New Mexico,U.S.A.	32.2625N	103.8569W	1036	From 1962-01-08 to 1962-02-15
Gnosjoe	GNOU	Sweden	57.2900N	13.7560E	280	From 2006-10-09
Gnowangerup	GNOW	Western Australia,Australia	33.8728S	117.8999E	320	From 2008-01-28
Goa	GOA	Goa, Daman and Diu,India	15.4917N	73.8247E	58	From 1964-06-06
Go??abunga	IGOD	Iceland	63.6598N	19.3224W	1200	From 2006-09-06
Goat Mountain	VGTM	Oregon,U.S.A.	45.1498N	122.2650W	993	
Goat Mountain	GOAT	Alaska,U.S.A.	60.5810N	144.7271W	897	
Goat Mountain	GTM	California,U.S.A.	34.2946N	116.3560W	836	
Goat Mountain	GT2	Oregon,U.S.A.	45.1556N	122.2710W	823	From 1985-09-01
Gobbelet	GOBY	New York,U.S.A.	41.3294N	73.9219W	150	
Gobu	GOBA	Azerbaijan	40.4010N	49.7330E	183	From 2003-08-01
Gochang-gun	GOCB	Republic of Korea	35.3484N	126.5982E	-14	From 2012-11-16
Godfrey	GOGA	Georgia,U.S.A.	33.4112N	83.4666W	116	From 1993-03-09
Godhavn	GDH	Greenland	69.2500N	53.5333W	23	
Gofitskoye	GOF	Stavropol'skiy Kray,Russia	45.0580N	43.0430E	293	From 1994-03-19
Gogaran	GOGS	Armenia	40.9017N	44.1950E	1935	
Goheung	KSKOH	Republic of Korea	34.6090N	127.2733E	53	From 2000-02-10
Gokceada-Canakkale	GOKC	Turkey	40.1997N	25.9183E	118	From 2011-03-28
Golan-Tel Qazir	GLH	Israel	32.7140N	35.6500E	330	From 1986-06-26
Gold Coast 1 Soft	GC1S	Queensland,Australia	28.1617S	153.5115E	11	From 2009-01-01
Gold Coast 2 Fill	GC2F	Queensland,Australia	27.9122S	153.3958E	12	From 2009-01-01
Gold Coast Softrock	GC2	Queensland,Australia	28.1364S	153.4539E	60	
Gold Cst Hrdrock	GC1	Queensland,Australia	27.9487S	153.3618E	60	
Golden	GLD	Colorado,U.S.A.	39.7493N	105.2201W	1762	From 1974-01-01
Golden	GNM	New Mexico,U.S.A.	35.2496N	106.1930W	2417	From 1976-01-01
Golden	GOL	Colorado,U.S.A.	39.7003N	105.3711W	2359	From 1961-12-21 to 1999-08-25
Goldendale	F06A	Washington,U.S.A.	45.7664N	120.7817W	577	From 2006-08-26 to 2008-03-28
Golden Eagle	Q42A	Illinois,U.S.A.	38.9120N	90.5331W	175	From 2011-05-07
Goldfield	GF-NV	Nevada,U.S.A.	37.9175N	117.2017W	1707	From 1963-02-08 to 1963-03-29
Goldfield	S09A	Nevada,U.S.A.	37.7243N	117.2246W	1767	From 2006-04-12 to 2008-03-24
Goldfield	GF-	Nevada,U.S.A.	37.9175N	117.2017W	1707	From 1963-02-08 to 1963-03-29
Gold Hill	GHIB	California,U.S.A.	35.8323N	120.3473W	330	
Gold Hill	GHC	California,U.S.A.	35.8310N	120.3530W	433	From 1968-03-21
Gold Hill	PK1	California,U.S.A.	35.8310N	120.3530W	433	From 1968-03-21
Gold Hill	PGHM	California,U.S.A.	35.8310N	120.3530W	433	From 1968-03-21
Gold King Creek	GKC	Alaska,U.S.A.	64.1787N	147.9350W	490	From 1976-07-01
Gold Mountain	GMW	Washington,U.S.A.	47.5479N	122.7860W	506	From 1970-02-27
Gold Mountain	GMN	Nevada,U.S.A.	37.3004N	117.2598W	2169	From 1979-07-13
Gold River	GDR	British Columbia,Canada	49.7810N	126.0320W	100	From 1978-08-04
Gold Rush Inn	AGIM	California,U.S.A.	38.8447N	120.9810W	305	From 1976-01-28
Goldstone, Barstow	GSC	California,U.S.A.	35.3018N	116.8057W	1000	From 1961-11-07
Goldstream Park	GSTB	British Columbia,Canada	51.6600N	118.6850W	1340	
Goldstream Valley	GSV	Alaska,U.S.A.	64.9216N	147.9370W	302	From 1999-01-01 to 2013-08-25
Goldstream Valley	GSVT	Alaska,U.S.A.	63.3372N	142.9821W	497	From 2003-04-01 to 2013-08-25
Golhisar	GOLH	Turkey	37.2369N	29.5611E	1090	From 2005-03-25
Golis@17e	GOLS	Slovenia	46.0108N	15.6245E	559	
Golmarmara-Manisa	GOMA	Turkey	38.7076N	27.9173E	115	From 2012-09-04
Golondrinas	GOLV	Ecuador	0.2082N	79.1370W	404	From 2008-07-25
Golovnino	GLVR	Sakhalinskaya Oblast',Russia	43.7386N	145.5193E	10	From 2011-09-20
Golpazari	GLP	Turkey	40.2889N	30.3094E	560	From 1970-07-01
Golpazari	GPA	Turkey	40.2889N	30.3094E	560	From 1970-07-01
Goma	GOM	Democratic Republic of the Congo	1.6810S	29.2270E	1470	
Gonabad	GNKF	Iran	34.5000N	58.4000E	0	
Gonen	GET	Turkey	40.1083N	27.5667E	590	From 1978-09-01 to 1984-03-31
Gonen-Balikesir	GONE	Turkey	40.0466N	27.6860E	142	From 2008-06-27
Gongen	GON	Kagoshima,Japan	31.5825N	130.6858E	270	
Gongju	KSKOJ	Republic of Korea	36.4706N	127.1446E	100	From 2006-12-30
Gongju-si	KOJ2	Republic of Korea	36.4708N	127.1447E	92	From 2011-12-19
Gonzaga (MN)	T0825	Italy	44.9730N	10.8469E	6	From 2012-05-29 to 2012-08-09
Gonzales	VGZ	British Columbia,Canada	48.4139N	123.3240W	68	From 1982-03-23
Gonzanamˆ¡	GONZ	Ecuador	4.2370S	79.3946W	3128	From 2012-08-23
Goochland	GHV	Virginia,U.S.A.	37.7942N	78.1073W	107	From 1978-10-10
Good Intent, Atchison	P36A	Kansas,U.S.A.	39.6204N	95.2060W	313	From 2010-05-28 to 2012-03-14
Goodland	D36A	Minnesota,U.S.A.	47.1765N	93.1645W	434	From 2010-08-28 to 2012-08-09
Goodnow Flow	GNF	New York,U.S.A.	43.9152N	74.2302W		From 1983-10-01
Goodsprings	V11A	Nevada,U.S.A.	35.8384N	115.4305W	1117	From 2006-06-16 to 2008-10-14
Goonhilly	CGH1	England,United Kingdom	50.0507N	5.1649W	97	From 1981-01-01
GO Pecny, Ondrejov, Czech Republic	GOPC	Czech Republic	49.9140N	14.7870E	484	From 2009-06-01
Gorafe	GORA	Spain	37.4793N	3.0417W	868	
Gordon	GO-NB	Nebraska,U.S.A.	42.6328N	102.2739W	1097	From 1962-12-28 to 1963-03-21
Gordon	GO-	Nebraska,U.S.A.	42.6328N	102.2739W	1097	From 1962-12-28 to 1963-03-21
Gordon Butte	VGB	Oregon,U.S.A.	45.5157N	120.7780W	729	
Gordon Butte	VGBM	Oregon,U.S.A.	45.5157N	120.7780W	729	
Gordon, Harris	R36A	Kansas,U.S.A.	38.3237N	95.5040W	354	From 2010-03-28 to 2012-03-10
GORE	GORE	Germany	52.9900N	11.3070E	-278	
Gorelyy	GRL	Kamchatskaya Oblast',Russia	52.5519N	158.0733E	1250	
Gorenja Brezovica	GBAS	Slovenia	45.9348N	14.4423E	538	
Gorgona, Isla Gorgona	GR1C	Colombia	3.0027N	78.1668W	39	From 2013-12-05
Gori	GOR	Georgia,Georgia	41.9855N	44.1088E	648	From 1932-01-01
Goris	GRS	Armenia	39.5000N	46.3333E	1399	From 1951-01-01
Gorizia	FGRZ	Italy	45.9400N	13.6200E	59	From 2010-07-28
Gorje	GRJ	Slovenia	46.3833N	14.0833E	600	
Gorjuse	GORS	Slovenia	46.3170N	13.9950E	1086	From 2004-07-01
Gorka Klasztorna	GKP	Poland	53.2697N	17.2367E	115	From 2004-05-28
Gorkha	GKN	Nepal	28.0030N	84.6370E	1478	From 1983-07-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Gornja Briga	GBRS	Slovenia	45.5311N	14.8101E	610	From 2007-04-05
Gornji Cirnik	GCIS	Slovenia	45.8672N	15.6275E	320	From 2003-08-11
Gorno-Altaysk, Altai Republic, Russia	GALT	Altayskiy Kray,Russia	51.9590N	85.9460E	303	From 2012-08-27
Gornotaezhnoe	GRTS	Primorskiy Kray,Russia	43.7000N	132.1500E	220	From 1990-07-01
Gornotajezhnoje	GRTR	Primorskiy Kray,Russia	43.7073N	132.1565E	263	From 2006-07-24
Gornovodnoe	GRVS	Primorskiy Kray,Russia	43.7000N	134.7330E	270	From 1988-07-01
Gornyy	GRNR	Khabarovskiy Kray,Russia	50.7690N	136.4220E	450	
Gornyy	GOY	Sakhalinskaya Oblast',Russia	44.9167N	147.5670E		
Goroka	GRK	Papua New Guinea	6.0756S	145.3950E	1579	From 1968-01-25 to 1970-03-12
Goroka	GKA	Papua New Guinea	6.0583S	145.3920E	1634	From 1970-03-01 to 1972-11-22
Goroka	GRK1	Papua New Guinea	6.0700S	145.3940E	1695	
Gorontalo	GTOI	Moluccas,Indonesia	0.6358N	123.0105E	0	From 2005-01-01
Gorreto	GORR	Italy	44.6070N	9.2930E	621	From 2012-03-15
Gorron	GRR	Pays de la Loire,France	48.3883N	0.8583W	220	
Gortina	GOR1	Crete,Greece	35.0582N	24.9628E	161	From 2012-09-01
Gosan	KSGOS	Republic of Korea	33.2938N	126.1628E	71	From 2002-10-29
Gosan-ri	GOS1	Republic of Korea	33.3003N	126.2100E	84	From 2011-12-01
Gosnell	GNAR	Missouri,U.S.A.	35.9652N	90.0178W	71	
Gosnell High Sch.	GSAR	Missouri,U.S.A.	35.9618N	89.9694W	0	
Goteborg	NE01	Sweden	57.8010N	12.1320E	55	From 1983-02-01 to 1986-01-31
Goteborg	GOT	Sweden	57.6983N	11.9783E	66	
Gotemba	GTN	Shizuoka,Japan	35.3167N	138.9330E		
Gotland	GOTU	Sweden	57.6855N	18.5700E	50	From 2002-03-05
Gotsu	JGT	Shimane,Japan	35.0287N	132.3343E	50	
Gottingen	GTT	Niedersachsen,Germany	51.5464N	9.9642E	272	From 1899-01-01 to 2005-06-17
Gould Hall	GOU	Alaska,U.S.A.	61.1892N	149.8000W	71	From 1994-08-01
Goura	GUR	Greece	37.9363N	22.3423E	1081	From 2006-04-12
Gourbit	GRBF	Midi-Pyrenees,France	42.8413N	1.5367E	878	From 1989-01-01
Govalcot	GOV	Maharashtra,India	17.5400N	73.4883E	1	
Government House	GHSS	South Australia,Australia	34.9194S	138.6017E	42	From 2009-01-01
GOVORA	RMVG	Romania	45.0364N	24.2843E	260	From 2008-03-13
Gowlland Point	GOWB	British Columbia,Canada	48.7369N	123.1848W	29	
Goynuk	GYN	Turkey	40.3533N	30.7264E	1279	From 1991-01-01 to 1993-09-01
Gozaisho	GZS	Mie,Japan	35.0153N	136.4260E	1150	From 1963-10-01 to 1965-12-31
Gozaisho	GOZ	Mie,Japan	35.0153N	136.4260E	1150	From 1963-10-01 to 1965-12-31
Graceland, Paris	P45A	Illinois,U.S.A.	39.5277N	87.7439W	193	From 2011-11-16
Gracelyn & Ava, Whitmire	X55A	South Carolina,U.S.A.	34.4701N	81.6336W	153	From 2013-02-06
Grace West	PGWM	California,U.S.A.	35.1838N	120.6270W	148	
Graciosa	PGRA	Azores,Portugal	39.0293N	27.9813W	245	
GRACIOSA ISLAND INFRASONIC ARRAY REFERENCE POINT	LMZF	Azores,Portugal	39.0423N	28.0055W	284	From 2010-11-09
Grady	250A	Alabama,U.S.A.	31.9778N	86.2677W	152	From 2012-01-22
Graechen Ausblick	SGRA	Valais,Switzerland	46.1936N	7.8356E	1591	From 2010-12-21
Graesoe	GRAU	Sweden	60.3342N	18.5396E	100	From 2001-12-19
Grafenberg	GG-GR	Bayern,Germany	49.6922N	11.2153E	525	From 1965-03-02
Grafenberg	GRFO	Bayern,Germany	49.6909N	11.2203E	384	From 1978-10-01
Grafenberg Ar.	GG-	Bayern,Germany	49.6922N	11.2153E		From 1965-03-02
Grafenberg Ar.	SB-	Bayern,Germany	49.6919N	11.2217E	500	From 1965-03-02
Grafenberg Array	GRA4	Bayern,Germany	49.5655N	11.4359E	503	From 1978-01-01
Grafenberg Array	GRC2	Bayern,Germany	48.8680N	11.3750E	445	
Grafenberg Array	GRC3	Bayern,Germany	48.8904N	11.5851E	438	From 1979-01-01
Grafenberg Array	GRF	Bayern,Germany	49.6919N	11.2217E	500	From 1965-03-02
Grafenberg Array	GRC4	Bayern,Germany	49.0870N	11.5270E	503	
Grafenberg Array	GRB2	Bayern,Germany	49.2712N	11.6691E	552	From 1978-01-01
Grafenberg Array	GRB1	Bayern,Germany	49.3922N	11.6537E	494	From 1978-01-01
Grafenberg Array	GRB4	Bayern,Germany	49.4688N	11.5615E	507	From 1978-01-01
Grafenberg Array	GRA1	Bayern,Germany	49.6919N	11.2217E	500	From 1976-03-01
Grafenberg Array	GRB3	Bayern,Germany	49.3439N	11.8065E	517	From 1978-01-01
Grafenberg Array	GRB5	Bayern,Germany	49.1111N	11.6789E	525	From 1979-01-01
Grafenberg Array	GRA2	Bayern,Germany	49.6550N	11.3600E	512	From 1976-03-01
Grafenberg Array	GRC1	Bayern,Germany	48.9960N	11.5220E	512	From 1979-09-01
Grafenberg Array	GRA3	Bayern,Germany	49.7623N	11.3193E	455	From 1976-03-01
Grafton	GFN	New York,U.S.A.	42.7928N	73.4153W	518	From 1971-10-01 to 1976-07-28
Grahamstown	GRM	Cape Province,South Africa	33.3133S	26.5083E	610	From 1967-11-03
Grahamstown	GRH	Cape Province,South Africa	33.3100S	26.5750E	558	
Graiana	GRAM	Italy	44.4913N	10.0658E	850	From 1999-04-01
Gramalote, Santander	GRMC	Venezuela	7.7180N	72.8040W	1275	From 2010-07-01
Granada	NE14	Spain	37.1900N	3.5950W	774	From 1983-05-01 to 2001-07-28
Granastaoir	IGRA	Iceland	65.9180N	17.5790W	24	From 1993-10-21
Granbergs Dal	GBD	Sweden	59.4570N	14.5540E	150	From 1980-01-01 to 1991-12-31
Grand Ballon	GBF	Alsace,France	47.9027N	7.0990E	1350	
Grand-Bara	GBR	Djibouti	11.1520N	42.4630E	625	From 1981-05-04
Grand Bay	DGBT	Dominica	15.2390N	61.3290W	70	
Grand Be	GBMF	Martinique,France	14.7973N	61.1648W	800	
Grand Canyon	GCAZ	Arizona,U.S.A.	36.0440N	112.1280W	2294	From 1987-01-01
Grand Canyon West Ranch, Meadview	V13A	Arizona,U.S.A.	35.8522N	113.9840W	1402	From 2007-03-10 to 2008-10-17
Grand Cayman	GCM	Cayman Islands	19.2890N	81.3810W	5	From 1984-11-01 to 2000-12-31
Grand Coulee	GCW	Washington,U.S.A.	47.9414N	118.9800W	462	
Grand County Courthouse, Moab, UT	MGCU	Utah,U.S.A.	38.5743N	109.5482W	1241	From 2011-10-21
Grande Dixence	DIX	Switzerland	46.0801N	7.4082E	2410	From 1999-01-19
Grande-Etoile	GELF	Provence-Cote d'Azur,France	43.3836N	5.4275E	550	
Grandfather Mountain	GFM	North Carolina,U.S.A.	36.1110N	81.8070W	1726	From 1982-05-27
Grand Junction	GJC	Colorado,U.S.A.	39.0906N	108.5269W	1445	
Grand'Maison	GDM	Rhone-Alpes,France	45.2038N	6.1163E	1574	
Grand Marais	C39A	Minnesota,U.S.A.	47.8171N	90.1289W	341	From 2010-09-18 to 2012-08-11
Grand Marais Airport, Grand Marais	E44A	Michigan,U.S.A.	46.6199N	85.9214W	282	From 2011-09-21
Grand Rapids	GP-MN	Minnesota,U.S.A.	47.6644N	93.4894W	427	From 1964-09-02 to 1964-12-01
Grand Rapids	GP-	Minnesota,U.S.A.	47.6644N	93.4894W	427	From 1964-09-02 to 1964-12-01
Grand Remous	GRQ	Quebec,Canada	46.6067N	75.8600W	290	
Grand Saline	GA2TX	Texas,U.S.A.	32.6581N	95.7036W	119	
Grand Saline	GA3TX	Texas,U.S.A.	32.6597N	95.7036W	-94	
Grand Saline	GA-TX	Texas,U.S.A.	32.6569N	95.7044W	-86	
Grand Targhee Resort	TARW	Wyoming,U.S.A.	43.7638N	110.9910W	2091	From 1986-01-01
Grand Turk	GRTK	Turks and Caicos Islands	21.5115N	71.1327W	12	
Grand View Acres	T58A	Virginia,U.S.A.	36.9454N	78.5338W	167	From 2013-03-18
Grandview Point	GRAI	Idaho,U.S.A.	43.8093N	111.3360W	2231	
Grand Wintersberg	GWF	Alsace,France	48.9775N	7.6219E	580	From 1980-07-01
Grange	GNG	Trinidad and Tobago	11.1770N	60.7980W	36	
Granges-Gontardes	GGF	Rhone-Alpes,France	44.3667N	4.7667E	110	
Grangeville	F11A	Idaho,U.S.A.	45.8883N	116.1549W	1186	From 2006-11-04 to 2008-07-15
Granite Bay	GBY	Alaska,U.S.A.	60.4322N	147.9780W	495	From 1985-07-12
Granite Butte	GBM	Montana,U.S.A.	46.8593N	112.4560W	2237	From 1974-10-09 to 1976-10-04
Granite Creek	GRNC	Alaska,U.S.A.	60.7319N	141.7538W	2116	
Granite Creek	GCC	California,U.S.A.	37.0300N	121.9970W	122	From 1965-01-01
Granite Creek	YUK5	Yukon Territory,Canada	61.1315N	137.8593W	1619	From 2010-08-23
Granite Mountain	GMA	Alaska,U.S.A.	65.4287N	161.2320W	860	From 1970-09-17 to 1978-03-25
Granite Mountain	GMU	Utah,U.S.A.	40.5755N	111.7630W	1829	From 1970-08-01
Granite Mountains Research Center, Essex	GMRC	California,U.S.A.	34.7846N	115.6599W	1326	From 2006-04-04
Granite Pass	GRP	California,U.S.A.	34.8043N	115.6050W	1238	
Granite Peak	LGPM	California,U.S.A.	40.9125N	122.8290W	1290	From 1982-10-01
Granite Springs	M61A	New York,U.S.A.	41.3104N	73.7673W	190	From 2013-05-30
Graniteville	GVS	South Carolina,U.S.A.	33.5970N	81.8528W	100	From 1974-05-20 to 1976-08-09
Gran Sasso	GIGS	Italy	42.4500N	13.5690E	1000	From 2003-02-24
Grant Creek	GRCI	Idaho,U.S.A.	43.9667N	113.9890W	2341	From 1983-11-01
Grantham	GRAN	South Africa	32.3020S	22.1710E	866	From 2012-09-29
Grant Side Rd.	KB3O	Ontario,Canada	45.3783N	76.1509W	95	From 2013-10-01
Grantsville	GS-MD	Maryland,U.S.A.	39.6189N	79.1833W	762	
Grantsville	GS-	Maryland,U.S.A.	39.6189N	79.1833W	762	
Grant Village	H17A	Wyoming,U.S.A.	44.3951N	110.5762W	2400	From 2007-10-03
Grant Village	YPGV	Wyoming,U.S.A.	44.3808N	110.5453W	2430	
Grapevine	GV-	Texas,U.S.A.	32.8858N	96.9983W	152	From 1962-06-02 to 1965-12-31
Grapevine	GV-TX	Texas,U.S.A.	32.8858N	96.9983W	152	From 1962-06-02 to 1965-12-31
Grapevine	GVN	California,U.S.A.	36.9999N	117.3435W	844	From 1978-11-28
Grapevine Ranger Station, Death Valley	GRAC	California,U.S.A.	36.9961N	117.3662W	689	From 2001-04-18
Grass Mountain	GSM	Washington,U.S.A.	47.2032N	121.7940W	1305	From 1970-06-11
Grass Mountain	VGMM	Oregon,U.S.A.	43.5923N	122.5460W	1561	
Grassy Mountain	GMG	Georgia,U.S.A.	34.8627N	84.6703W	1097	From 1985-11-01
Gratio	GRT	Tennessee,U.S.A.	36.2640N	89.4250W	137	
Graus	EGRA	Spain	42.1952N	0.3160E	706	From 1990-12-12
Gravata	GRBR	Pernambuco,Brazil	8.2273S	35.6401W	470	From 2007-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Gravel Pit	MGPM	California,U.S.A.	37.6264N	118.9025W	2190	
Gravette	U38A	Arkansas,U.S.A.	36.4394N	94.3857W	389	From 2010-06-16 to 2012-02-19
Gray	T51A	Kentucky,U.S.A.	36.9655N	83.9454W	329	From 2012-05-31
Grayback Hills BLM, Clive	N14A	Utah,U.S.A.	40.8513N	113.1867W	1325	From 2007-02-20 to 2008-08-20
Gray Butte	LGBM	California,U.S.A.	41.3452N	122.1940W	2304	
Gray Hill	HGH	England,United Kingdom	51.6380N	2.8064W	210	From 1980-01-01
Grayling	GRLA	Alaska,U.S.A.	62.9063N	160.0626W	31	
Grayling	GLMI	Michigan,U.S.A.	44.8245N	84.6174W	387	From 2006-08-10
Grayling Creek	GCR	Montana,U.S.A.	44.7962N	111.1060W	2075	From 1973-01-01
Grays Lake	GRRI	Idaho,U.S.A.	42.9380N	111.4220W	2207	
Grayson	242A	Louisiana,U.S.A.	32.0617N	92.1521W	57	From 2011-02-21 to 2012-11-13
Graz	GRA	Austria	47.0767N	15.4483E	369	
Gr delle femmine	EGFM	Sicily,Italy	37.8197N	15.0210E	1700	From 1994-10-01
Great Barrier	GBZ	North Island,New Zealand	36.2160S	175.4814E	70	From 1967-10-14 to 1990-05-20
Great Barrier Island	GRZ	North Island,New Zealand	36.2502S	175.4578E	80	From 2010-05-13
Great Rift	GTRI	Idaho,U.S.A.	43.2440N	113.2410W	1547	From 1992-01-01
Great Sand Dunes National Park	SDCO	Colorado,U.S.A.	37.7456N	105.5012W	2569	From 2002-07-11
Great Sitkin	AD1	Alaska,U.S.A.	52.0233N	176.1520W	244	From 1974-01-01 to 1992-02-01
Great Sitkin Cape Kiugilak	GSCK	Alaska,U.S.A.	52.0119N	176.1620W	384	
Great Sitkin Middle Yoke	GSMY	Alaska,U.S.A.	52.0432N	176.0563W	418	
Great Sitkin Saddle Point	GSSP	Alaska,U.S.A.	52.0928N	176.1757W	295	
Great Sitkin Teapot Rock	GSTR	Alaska,U.S.A.	52.0943N	176.0591W	536	
Great Sitkin Triple Divide	GSTD	Alaska,U.S.A.	52.0559N	176.1447W	873	
Great Whale R.	GWR	Quebec,Canada	55.2767N	77.7433W	20	From 1972-09-14
Great Whale River	GWC	Quebec,Canada	55.2917N	77.7533W	8	From 1965-09-27 to 1972-09-01
Greaves Creek	GRVM	New South Wales,Australia	33.6618S	150.3091E	980	
Greenacres	MGOO	Washington,U.S.A.	47.6482N	117.1490W	637	From 2014-01-29
Greenback	GBTN	Tennessee,U.S.A.	35.6660N	84.2110W	326	From 1983-03-23 to 2006-07-06
Greenback	GRBT	Tennessee,U.S.A.	35.6740N	84.1970W	329	
Green Bank	GBV	West Virginia,U.S.A.	38.4300N	79.8438W	826	From 1976-11-15
Greenbrier Site X102	X102	Arkansas,U.S.A.	35.3798N	92.3115W	206	
Greenbrier Site X201	X201	Arkansas,U.S.A.	35.2927N	92.3623W	207	
Greenbrier Site X301	X301	Arkansas,U.S.A.	35.2386N	92.4002W	112	
Greenbush Farm, Park River	B31A	North Dakota,U.S.A.	48.4236N	97.6495W	279	From 2010-08-12 to 2012-06-23
Green Forest	U39A	Arkansas,U.S.A.	36.3823N	93.4805W	433	From 2011-01-26 to 2012-10-30
Green Hill Farm, Brenham	537A	Texas,U.S.A.	30.0799N	96.3155W	92	From 2010-01-31 to 2011-11-05
Green Lake	GLKZ	Kermadec Islands,New Zealand	29.2620S	177.9203W	30	From 2009-06-01
Green Mountain	GNW	Washington,U.S.A.	47.5644N	122.8253W	165	
Green Oak Ranch	GORC	California,U.S.A.	33.1537N	117.2292W	138	
Green Oak Ranch, Vista	VSTC	California,U.S.A.	33.1537N	117.2292W	138	From 1975-01-01
Greenough	D14A	Montana,U.S.A.	47.0816N	113.5062W	1444	From 2006-10-04 to 2009-07-16
Green Peter	VGPM	Oregon,U.S.A.	44.4833N	122.5820W	1212	
Greenpond	GPD	New Jersey,U.S.A.	41.0177N	74.4608W	360	
Green River Community College BBO	GRCC	Washington,U.S.A.	47.3116N	122.1807W	130	From 2004-09-01
Greensboro	Q60A	Maryland,U.S.A.	39.0016N	75.8429W	14	From 2013-05-28
Greensboro	148A	Alabama,U.S.A.	32.6469N	87.5710W	63	From 2012-01-16
Greensboro	GBG	Georgia,U.S.A.	33.4985N	83.2112W	173	From 1978-02-01
Greensboro	GBNC	North Carolina,U.S.A.	36.0678N	79.7450W	236	
Greensprings	IP04	Virginia,U.S.A.	38.0922N	78.0942W	166	
Green Top	GTTN	Tennessee,U.S.A.	35.8120N	83.6670W	917	
Greenvale	GVL	Victoria,Australia	37.6186S	144.9006E	187	From 1976-01-01 to 2009-09-03
Green Valley	217A	Arizona,U.S.A.	31.7748N	110.8162W	1412	From 2007-03-03 to 2008-12-06
Green Valley Road	GVR	California,U.S.A.	38.2807N	122.2150W	257	From 1971-04-30
Green Verdugo Microwave Site, Sunland	DECC	California,U.S.A.	34.2535N	118.3338W	519	From 2000-08-10
Greenville	GH-MS	Mississippi,U.S.A.	33.3292N	91.0353W	30	
Greenville	P60A	Delaware,U.S.A.	39.8113N	75.6358W	105	From 2013-04-28
Greenville	GRV	Missouri,U.S.A.	37.0533N	90.3950W	168	From 1964-01-01 to 1974-12-31
Greenville	T43A	Missouri,U.S.A.	37.0833N	90.2878W	167	From 2011-07-24 to 2013-04-15
Greenwater Valley	GWY	California,U.S.A.	36.1860N	116.6689W	1556	From 1988-04-01
Greenwater Valley	GWV	California,U.S.A.	36.1867N	116.6710W	1540	From 1978-07-24 to 1988-02-16
Greenwich	GWJ	Jamaica	18.0740N	76.7280W	1200	
Greenwood	L56A	New York,U.S.A.	42.1365N	77.5591W	688	From 2013-08-17
Greenwood	GWDE	Delaware,U.S.A.	38.8256N	75.6171W	19	From 1995-08-29 to 2001-06-29
Gregorio Matese	SGG	Italy	41.3867N	14.3788E	880	From 1977-01-01
Grenada	GRE	Grenada	12.0470N	61.7460W	15	From 1952-12-21
Grenada	LGRM	California,U.S.A.	41.6392N	122.4805W	780	
Grenada, Carriacou, Mt. Pleasant	GCMP	Grenada	12.4860N	61.4260W	39	From 2014-03-17
Grenada Fort Frederick, Mt. Wheldale, St. Georges	GRFF	Grenada	12.0492N	61.7376W	223	From 2014-03-04
Grenoble	GRN*	Rhone-Alpes,France	45.1833N	5.7000E	244	
Grenoble	GRN	Rhone-Alpes,France	45.2425N	5.7452E	1040	From 1980-02-01
Grenville	GRGR	Grenada	12.1324N	61.6540W	195	
Grenville Island	GRNB	British Columbia	53.8468N	129.9575W	461	From 2014-08-24
Gresham	PGO	Oregon,U.S.A.	45.4667N	122.4530W	237	From 1982-06-01
Gresik	GRJI	Jawa,Indonesia	6.9145S	112.4793E	0	From 2007-12-01
Greta Valley South Island, New Zealand	GVZ	South Island,New Zealand	42.9674S	173.0348E	400	From 2012-06-30
Gretna	GAN	Nebraska,U.S.A.	41.0214N	96.2469W	335	From 1977-12-13 to 1979-10-30
Grevena	GRE3	Greece	40.0848N	21.4383E	533	From 2011-06-15
Greybull	H20A	Wyoming,U.S.A.	44.4868N	107.9990W	1236	From 2008-07-26 to 2010-09-14
Greycliff	GCMT	Montana,U.S.A.	45.7912N	109.6672W	1530	
Greymouth	GRY	South Island,New Zealand	42.4483S	171.2151E	3	From 1932-11-01 to 1942-10-31
Griffith Obs. 2	GR2C	California,U.S.A.	34.1182N	118.3003W	342	
Griffith Observatory	GOC	California,U.S.A.	34.1130N	118.3020W	347	From 1965-06-01
Griffith Park	GFP	California,U.S.A.	34.1293N	118.3100W		From 1975-04-01
Grimsel Gerstenegg	GRIMS	Switzerland	46.5781N	8.3189E	1746	From 2011-08-01
Grimsey	IGRI	Iceland	66.5420N	18.0100W	36	From 1994-01-21
Grimsfjall	IGRF	Iceland	64.4070N	17.2670W	1710	From 2001-05-08
Grimsstaoir	IGRS	Iceland	65.6380N	16.1240W	378	From 1996-02-15
Grindav??k	IGRV	Iceland	63.8572N	22.4558W	52	From 1997-03-03
Grindle Hills	GRIN	Alaska,U.S.A.	60.2810N	143.3190W	625	
Grindstone Mountain	GROR	Oregon,U.S.A.	45.3513N	123.6620W	945	From 1986-05-01
Grise Fiord	GFNU	Nunavut,Canada	76.4180N	82.8998W	12	
Grit	GR2	Texas,U.S.A.	30.7864N	99.4161W	549	From 1967-05-19 to 1967-05-23
Grit	GR2TX	Texas,U.S.A.	30.7864N	99.4161W	549	From 1967-05-19 to 1967-05-23
Grit	GRI*	Texas,U.S.A.	30.7778N	99.3842W	518	From 1967-05-19 to 1967-05-23
Grit	GR1TX	Texas,U.S.A.	30.7778N	99.3842W	518	From 1967-05-19 to 1967-05-23
Griva	GRG	Greece	40.9567N	22.4014E	560	From 1981-01-01
Grizzlie Mountain	GMO	Oregon,U.S.A.	44.4391N	120.9560W	1689	
Grizzly Bear Lake	GBLN	Northwest Territories,Canada	64.1995N	112.9935W	392	
Grizzly Peak	GZU	Utah,U.S.A.	41.4255N	111.9750W	2646	
Grjothals	IGHS	Iceland	65.8578N	16.6272W	405	From 2008-03-19
Grjothals	IGHA	Iceland	65.8435N	16.6629W	396	From 2009-09-30
Grmije	GMRK	Kosovo	42.6588N	21.2197E	1026	From 2013-05-05
Grobnik	GROS	Slovenia	46.4610N	15.5018E	930	
Groom Lake Road	GLR	Nevada,U.S.A.	37.1994N	116.0175W	1446	From 1975-11-20 to 2002-10-10
Groom Range	GMR	Nevada,U.S.A.	37.3338N	115.7725W	1580	From 1979-01-23 to 2002-10-10
Grossbuechelberg	MGBB	Bayern,Germany	49.9720N	12.2150E	650	From 2001-03-12
Grosses Roches	GSQ	Quebec,Canada	48.9100N	67.1100W	398	From 1981-10-28
Grosshau	GSH	Nordrhein-Westfalen,Germany	50.7357N	6.3796E	367	From 1981-01-01
Grossmontoni	MOSI	Italy	46.6164N	10.5495E	1957	From 2006-12-13
Grota Negra	GRON	Azores,Portugal	37.7680N	25.5333W	577	From 2006-08-10
Grotte di Bossea	GBOS	Italy	44.2416N	7.8399E	897	From 2011-10-26
Ground Anchor Farm, New Bern	W61A	North Carolina,U.S.A.	35.1773N	76.9909W	6	From 2013-04-07
Ground Zero	ZOX	Nevada,U.S.A.	37.2360N	116.5160W		From 1965-01-01 to 1970-12-31
Ground Zero	GZN	Nevada,U.S.A.	37.2360N	116.5160W		From 1965-01-01 to 1970-12-31
Grouse Hill	LGHM	California,U.S.A.	41.6115N	121.6210W	2146	
Grouse Mountain	KGMM	California,U.S.A.	40.7588N	123.6740W	1615	
Grover	N25A	Colorado,U.S.A.	40.8132N	104.0873W	1607	From 2008-07-02 to 2010-05-18
Grover	GRX	Nevada,U.S.A.	39.6355N	117.9890W	1390	From 1980-01-01
Groznyy	GROC	Russia	43.2027N	45.7961E	198	From 2008-04-15
Groznyy	GRO	Chechnya,Russia	43.3200N	45.7500E	123	
Grundy	GD-VA	Virginia,U.S.A.	37.3928N	81.9778W	366	From 1962-07-21 to 1962-10-05
Grundy	GD-	Virginia,U.S.A.	37.3928N	81.9778W	366	From 1962-07-21 to 1962-10-05
Gruta Xavier	XAVN	Nicaragua	12.1487N	86.3263W	160	
Gruza	GRUS	Serbia	43.8886N	20.7153E	273	From 2002-05-01
Gryon	GRYON	Switzerland	46.2505N	7.1111E	1300	From 2002-10-10
G??ttrup	GOET	Denmark	57.0350N	9.2250E	5	From 1977-01-01 to 1989-12-31
Guacamaya	GUAC	Venezuela	10.1920N	67.2711W	1359	From 1987-06-01
Guadalajara	GUM	Jalisco,Mexico	20.6794N	103.3242W	1567	
Guadalajara 2	GUM2	Jalisco,Mexico	20.6667N	103.3000W	1543	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Guadaloupe-1	LZG	Guadeloupe,France	16.1408N	61.7755W	116	From 1997-01-01
Guadaloupe-2	PHG	Guadeloupe,France	16.0146N	61.6426W	981	From 2004-03-30
Guadaloupe-3	TBG	Guadeloupe,France	15.8522N	61.6455W	78	From 2004-11-26
Guadalupe	PT03	Peru	13.9917S	75.7967W	400	
Guadalupe Mountain	GDL2	New Mexico,U.S.A.	32.2003N	104.3640W	1213	
Guadarrama	GUD	Spain	40.6430N	4.1540W	1393	From 1979-07-01
Guadeloupe/Martinique T-Phase Site N1	H05N1	Guadeloupe,France	16.3164N	61.0567W	268	From 2000-09-18
Guadeloupe/Martinique T-Phase Site S1	H05S1	Guadeloupe,France	14.4250N	60.8367W	6	From 2000-09-18
Guagua Pichincha Codigem	GGPC	Ecuador	0.1788S	78.5968W	4420	From 2012-06-15
Guajares	EGUA	Spain	36.8337N	3.5654W	386	From 1991-01-10
Gualala	GGUM	California,U.S.A.	38.8565N	123.4980W	661	
Gualdo di Macerata	GUMA	Italy	43.0627N	13.9352E	574	From 2007-10-18
Guallil	GUAL	Ecuador	3.0718S	78.8142W	3265	From 1994-07-21
Guam	GUAMO	Missouri,U.S.A.	36.8892N	89.8390W	172	
Guam	GUMO	Mariana Islands	13.5891N	144.8686E	99	From 1975-08-01
Guam	GUAM	Mariana Islands	13.4717N	144.7483E		From 1914-01-01 to 1944-12-31
Guam	GUA	Mariana Islands	13.5397N	144.9141E	287	From 1963-04-01
GUANDACOL	AGUA	La Rioja,Argentina	29.4870S	68.4910W	1075	From 1996-09-26
Guangfu	EGFH	Taiwan region	23.6688N	121.4274E	132	From 2011-12-20
Guangzhou	CNT	Guangdong,China	23.0869N	113.3440E	11	
Guangzhou	GZH	Guangdong,China	23.0869N	113.3440E	11	
Guanica, Bosque Seco, PR	GBPR	Puerto Rico	17.9751N	66.8792W	15	From 2006-09-21
Guanoco	GUNV	Venezuela	10.1616N	62.9426W	60	
Guantanamo	GM-	Cuba	19.9669N	75.0872W	16	From 1963-11-19 to 1964-03-03
Guantanamo	GM-CU	Cuba	19.9669N	75.0872W	16	From 1963-11-19 to 1964-03-03
Guantanamo	GTMO	Cuba	20.0800N	75.1400W	0	
Guantanamo Bay	GBC	Cuba	19.9000N	75.1500W		
Guantanamo Bay	GTBY	Caribbean Sea,U.S.A.	19.9268N	75.1108W	79	
Guarapari	CAM3	Espirito Santo,Brazil	20.7288S	40.5222W	27	
Guarapari-ES	ALF01	Espirito Santo,Brazil	20.6169S	40.7252W	22	From 2011-01-30
Guarcino	GUAR	Italy	41.7945N	13.3123E	741	From 2003-05-29
Guardamar (Alicante)	EXGUA	Spain	38.0960N	0.6570W	20	From 2009-09-01
Guardaparques de Rinc˜‡n de la Vieja	GPS1	Costa Rica	10.7748N	85.3497W	846	From 2000-01-01
Guaruva-PR	TIJ01	Parana,Brazil	25.3235S	49.0046W	1049	From 2011-01-30
Guatemala Basin O.B.S. 2	GB02	Guatemala Basin,North Pacific Ocean	6.5569N	93.5519W	-3580	From 1979-05-01
Guatemala Basin O.B.S. 3	GB03	Guatemala Basin,North Pacific Ocean	7.8381N	94.3869W	-3730	From 1979-05-01
Guatemala Basin O.B.S. 4	GB04	Guatemala Basin,North Pacific Ocean	12.7400N	91.0161W	-5260	From 1979-06-01
Guatemala Basin O.B.S. 5	GB05	Guatemala Basin,North Pacific Ocean	12.6519N	90.9489W	-6010	From 1979-05-01
Guatemala Basin O.B.S. 6	GB06	Guatemala Basin,North Pacific Ocean	12.6939N	90.8519W	-5260	From 1979-06-01
Guatemala Basin O.B.S. 7	GB07	Guatemala Basin,North Pacific Ocean	12.7911N	90.9119W	-4460	From 1979-06-01
Guatemala Basin O.B.S. 8	GB08	Guatemala Basin,North Pacific Ocean	12.7169N	90.9369W	-5465	From 1979-05-01
Guatemala City	GCG	Guatemala	14.5862N	90.5328W	1502	From 1925-01-01
Guatemala OBS 1	GB01	Guatemala Basin,North Pacific Ocean	3.9981N	91.9981W	-2893	From 1979-05-01
Guayabo	MICM	Costa Rica	10.7010N	85.1990W	636	
Guayabo	TMIA	Costa Rica	10.7153N	85.1945W	670	
Guayabo de Bagaces	GUAB	Costa Rica	10.7075N	85.2292W	584	From 2000-01-01
Guayacanes	GUAY	Dominican Republic	18.4400N	69.4333W	0	
Guayaquil	AGUAY	Ecuador	2.0543S	79.9518W	30	From 2010-07-27
Guaymas	GUYB	Sonora,Mexico	27.8985N	110.8727W	-2	From 2012-08-03
Guaymas	GYM	Sonora,Mexico	27.9100N	110.9520W	15	
Guaynabo City	GCPR	Puerto Rico	18.3090N	66.0836W	113	From 2013-07-01
Guba	GUB	Democratic Republic of the Congo	10.6667S	26.4333E		
Gudauri	GUDG	Georgia,Georgia	42.4646N	44.4772E	2012	From 2007-11-13
Gudauri	GUDA	Georgia,Georgia	42.2752N	44.2837E	2011	From 2007-11-13
Guelma	CGMA	Algeria	36.4500N	7.4100E	336	
Guelma	CGUE	Algeria	36.4500N	7.4100E	336	
Guerrero	CGG	Guerrero,Mexico	16.6750N	98.4575W	400	
Guerrero	LLJ	Guerrero,Mexico	16.5642N	98.8847W		
Guerrero, Norte de Santander	GUEC	Colombia	7.8302N	72.9247W	2430	From 2008-07-15
Guia Canaria	GGC	Canary Islands,Spain	28.1197N	15.6367W	560	From 1984-11-01
Guildford	GILD	England,United Kingdom	51.2500N	0.5833W		
Guimar	GUI	Canary Islands,Spain	28.3208N	16.4405W	868	
Guinayangan	GQP	Philippines	13.9050N	122.4460E	50	
Guiria	GUIV	Venezuela	10.6470N	62.2230W	50	
Guiyang	GYA	Guizhou,China	26.4586N	106.6640E	1162	
Guiyang	KWA	Guizhou,China	26.4586N	106.6640E	1162	
Guiyang	HXI	Guizhou,China	26.4586N	106.6640E	1162	
Gukeng	WGK	Taiwan region	23.6860N	120.5620E	75	
Gulagac	GULA	Turkey	38.3443N	34.2360E	1128	From 2010-06-30
Gulek	GULE	Turkey	37.2837N	34.7765E	1625	From 2006-12-01
Guler Mountain	GULW	Washington,U.S.A.	45.9242N	121.5960W	1189	From 1986-07-31
Gulfidan-Ladik(Samsun)	GULF	Turkey	40.9140N	35.8790E	930	From 2013-12-05
Gulkana	GUL	Alaska,U.S.A.	62.2206N	145.4514W	600	From 1964-04-11 to 1964-05-07
Gulpinar-Canakkale	GPNR	Turkey	39.4560N	26.1332E	52	From 2011-03-26
Gulveren	GULT	Turkey	40.4323N	30.5150E	930	From 1993-01-01
Gumba	GUN	Nepal	27.9106N	85.8794E	2900	From 1985-03-01
Gum-Bashi	GUMR	Stavropol'skiy Kray,Russia	43.7756N	42.2472E	2312	
GUMI	KSGUM	Republic of Korea	36.2347N	128.2902E	48	From 2006-12-30
Gumukmas	GMJI	Jawa,Indonesia	8.2732S	113.4441E	0	From 2007-12-01
Gumuldur	GMLD	Turkey	38.0766N	26.9156E	10	From 2011-07-24
Gumushane	GUMT	Turkey	40.4600N	39.4800E	1326	
Gundaroo	GUND	New South Wales,Australia	35.0318S	149.2679E	600	From 2007-08-01
Gundogdu	GDDT	Turkey	40.3397N	29.0213E	575	From 1994-01-01
Guneyli	GNYT	Turkey	40.5638N	29.2795E	585	From 1994-01-01
Gungliau Township	TNGL	Taiwan region	25.0430N	121.9230E	12	From 2002-11-06
Gun Hill	BBGH	Barbados	13.1434N	59.5588W	180	
Gunib	GNBR	Dagestan,Russia	42.3889N	46.9639E	800	
Gunnerudssatern	GNN	Sweden	60.1336N	13.6956E	265	From 1969-01-01 to 1991-12-31
Gunsan	KSKUS	Republic of Korea	36.0168N	126.8336E	58	From 2000-02-05
GUNSAN	KSGUS	Republic of Korea	36.0371N	126.7819E	33	From 2006-12-30
Gun Site Peak	GSUT	Utah,U.S.A.	41.9063N	112.1210W	1783	From 1979-10-01 to 1980-07-31
Gunungsitoli	GSI	Nias,Indonesia	1.3039N	97.5755E	107	From 2005-09-30
Gunung Srandil	SCJI	Jawa,Indonesia	7.6810S	109.1689E	45	
Gunzen	GUNZ	Sachsen,Germany	50.3635N	12.3316E	669	From 2000-12-16
Guoxing	DPDB	Taiwan region	24.0334N	120.9264E	650	From 2005-01-24
Gura Zlata	GZR	Romania	45.3933N	22.7767E	850	From 1977-04-01
Guri	GUV	Venezuela	7.8086N	63.0974W	130	
Guri Network	GUV4	Venezuela	7.6083N	63.1017W	410	
Guri Network	GUV2	Venezuela	7.7816N	62.8176W	650	
Guri Network	GUV3	Venezuela	7.6009N	62.7614W	440	
Guri Network	GUV5	Venezuela	7.8944N	63.2120W	410	
Guri Network	GUV1	Venezuela	7.9478N	62.8554W	410	
Gurin_S¯VAS	CUGUR	Turkey	38.7237N	37.2719E	1401	From 2010-07-08
Guroymak-BITLIS	GURO	Turkey	38.5509N	42.0322E	1388	From 2011-10-29
Gusciola	GSCL	Italy	44.3506N	10.5878E	665	
Gushan	WSSB	Taiwan region	22.6418N	120.2618E	352	From 2002-12-01
Gusukube	JOGS	Ryukyu Islands,Japan	24.7600N	125.4063E	60	
Gutenstein	GUT	Baden-Wurttemberg,Germany	48.0709N	9.1153E	647	From 1997-10-14
Guthrie	V34A	Oklahoma,U.S.A.	35.8345N	97.5176W	329	From 2009-10-31 to 2011-09-03
Gut Margarthenhoehe	BD04	Nordrhein-Westfalen,Germany	50.9151N	6.5986E	80	From 2001-01-01 to 2013-09-24
Guttu	GTU	Himachal Pradesh,India	30.5269N	78.7477E	1880	From 2007-05-01
Guwahati	GWH	Assam,India	26.1500N	91.7300E		From 1982-12-01
GUWAHATI	GUWA	Assam,India	26.1933N	91.6914E	88	From 2011-05-01
Guyana, Caldas	GUY2C	Colombia	5.2240N	75.3650W	3605	From 2013-04-17
Guyana, Colombia	GUYC	Colombia	5.2237N	75.3902W	3600	From 2009-02-01 to 2013-04-26
Guyot Hills	GYO	Alaska,U.S.A.	60.1463N	141.4710W	183	From 1976-06-01
Guysborough	GBN	Nova Scotia,Canada	45.4078N	61.5128W	38	From 1983-05-03
Guzelce-Avcilar-Istanbul	SBT2	Turkey	40.8786N	28.5142E	-810	From 2010-11-03
Guzeripl'	GUZR	Russia	43.9963N	40.1184E	822	From 2012-06-15
Gvkgeada	GADA	Turkey	40.1909N	25.8986E	130	From 2006-07-06
Gvttingen	GTTG	Germany	51.5451N	9.9647E	279	From 2006-01-18
Gwangju	KSKWJ	Republic of Korea	35.1599N	126.9910E	213	From 2000-12-13
Gwangju-acc	KSGWJ	Republic of Korea	35.1731N	126.8915E	0	From 2007-01-01
Gwangyang	GWYB	Republic of Korea	34.9435N	127.6915E	32	From 2012-10-19
Gweek	CGW	England,United Kingdom	50.1006N	5.2228W	9	From 1993-01-01
Gygjarholskot	IGYG	Iceland	64.2810N	20.2150W	119	From 1989-12-10
Gyogryolbido	KSGBI	Republic of Korea	36.6250N	125.5590E	112	From 2007-12-12
Gythion	GTH2	Greece	36.7603N	22.5659E	3	
Gyula	GYL	Hungary	46.5981N	21.1718E	92	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Gyulagarak	TUNS	Armenia	40.9233N	44.4467E	1910	
Gyumri	GYMZ	Krasnodarskiy Kray,Russia	40.8100N	43.8310E	1560	
Gyumri	GMRZ	Armenia	40.8100N	43.8310E	1560	From 1945-01-01
Gyzyletrek	GZLA	Turkmenistan	37.6750N	54.7650E	55	
G?zelcaml?	GCAM	Turkey	37.7002N	27.2335E	38	From 2007-05-22
HAARP	HARP	Alaska,U.S.A.	62.4076N	145.1550W	600	
Haboro	HAB	Rumoi,Japan	44.3833N	141.7000E		
Hachijo jima	HJJ	Bonin Islands,Japan	33.1017N	139.7880E	80	
Hachijo jima 2	JHJ	Bonin Islands,Japan	33.1192N	139.7833E	153	
Hachijojimakashitate	JHCJ	Bonin Islands,Japan	33.0723N	139.7977E	170	From 2009-03-01
Hachinohe	HAC	Aomori,Japan	40.5250N	141.5270E	28	
Hachinohe 2	HACJ	Aomori,Japan	40.3972N	141.5460E	230	From 1991-03-08
Hacho	HACH	Spain	37.1890N	4.1218W	1025	
Hacienda Drive	AHDM	California,U.S.A.	39.0483N	121.0765W	483	
Hadbat Hakran	HKNS	Saudi Arabia	22.6420N	41.7158E		
Haddam	HDM	Connecticut,U.S.A.	41.4858N	72.5232W	24	From 1974-12-23 to 1999-01-31
Hadim	HDMB	Turkey	36.9640N	32.4860E	1946	From 2003-11-05
Hadley	I34A	Minnesota,U.S.A.	44.0392N	95.8600W	509	From 2010-07-27 to 2012-05-22
Hadley Quad	HAKY	Kentucky,U.S.A.	37.1057N	86.5849W	169	From 1987-06-26
HADONG	KSHAD	Republic of Korea	35.0797N	127.7696E	60	From 2006-12-30
Hadrut	HDR	Armenia	39.5220N	47.0310E	800	From 1998-01-01
Haedir	IHAE	Iceland	64.0261N	16.9886W	250	From 2013-09-12
Haenam	KSHAN	Republic of Korea	34.5727N	126.5693E	13	From 2001-09-08
Haflong	HLGA	Assam,India	25.1600N	93.0167E	662	From 1984-08-01
Hagersville	HGVO	Ontario,Canada	42.9607N	80.1264W	224	
Hagfors	HFS	Sweden	60.1335N	13.6945E	296	From 1969-01-01
Hagfors Array Site A1	HFSA1	Sweden	60.1383N	13.6955E	240	
Hagfors Array Site B1	HFSB1	Sweden	60.1382N	13.7011E	225	
Hagfors Array Site B2	HFSB2	Sweden	60.1431N	13.6988E	230	
Hagfors Array Site B3	HFSB3	Sweden	60.1433N	13.6884E	240	
Hagfors Array Site B4	HFSB4	Sweden	60.1384N	13.6860E	235	
Hagfors Array Site B5	HFSB5	Sweden	60.1351N	13.6935E	240	
Hagfors Array Site C1	HFSC1	Sweden	60.1344N	13.6968E	265	
Hagfors Array Site C2	HFSC2	Sweden	60.1335N	13.6973E	260	
Hagfors New Array Site A0	HFA0	Sweden	60.1420N	13.6850E	274	
Hagfors New Array Site A1	HFA1	Sweden	60.1444N	13.6846E	294	
Hagfors New Array Site A2	HFA2	Sweden	60.1406N	13.6806E	301	
Hagfors New Array Site A3	HFA3	Sweden	60.1405N	13.6896E	265	
Hagfors New Array Site B1	HFB1	Sweden	60.1482N	13.6824E	323	
Hagfors New Array Site B2	HFB2	Sweden	60.1421N	13.6729E	341	
Hagfors New Array Site B3	HFB3	Sweden	60.1370N	13.6820E	271	
Hagfors New Array Site B4	HFB4	Sweden	60.1384N	13.6943E	266	
Hagfors New Array Site B5	HFB5	Sweden	60.1467N	13.6964E	253	
Hagfors New Array Site C2	HFC2	Sweden	60.1335N	13.6945E	296	
Ha Giang	HGVB	Vietnam	22.8358N	104.9923E	119	From 2008-01-01
Hagimishima	JHGM	Yamaguchi,Japan	34.7827N	131.1414E	19	From 2013-07-01
Hagoal	HHAG	Egypt	29.9530N	32.0990E	490	
Hagol	HAGS	Egypt	24.3794N	34.9866E	333	
Hague Volcano	HAG	Alaska,U.S.A.	55.3171N	161.9042W	503	From 1996-07-01
Haha-jima-NKT	JHHJ	Bonin Islands,Japan	26.6297N	142.1780E	110	
Haha-jima-NKT2	JHH2	Bonin Islands,Japan	26.6328N	142.1757E	108	From 2013-04-01
Hahryggur	HAH	Iceland	64.1185N	21.2828W		
Haibara	HBR	Nara,Japan	34.5028N	135.9930E	390	
Haid-Arzberg	MHAI	Bayern,Germany	50.0225N	12.1762E	550	From 2001-03-13
Haifa	HAF	Israel	32.7790N	35.0240E	179	
Ha'il	HILS	Saudi Arabia	27.3835N	41.7917E	1080	
Hailar	HIA	Nei Monggol Zizhiqu,China	49.2667N	119.7420E	610	From 1987-03-01
Hailey	HL2ID	Idaho,U.S.A.	43.5618N	114.4149W	1784	
Hailey	HL2	Idaho,U.S.A.	43.5618N	114.4149W		From 1964-03-01 to 1967-12-31
Hailey	HL-ID	Idaho,U.S.A.	43.6472N	114.2506W	1890	From 1961-10-14 to 1964-03-07
Hailey	HLID	Idaho,U.S.A.	43.5625N	114.4138W	1772	From 1998-08-10
Hailey	HL-	Idaho,U.S.A.	43.6472N	114.2506W	1890	From 1961-10-14 to 1964-03-07
Haileybury School of Mines	HSMO	Ontario,Canada	47.3708N	79.6657W	306	From 2005-07-20
Hailstone	HLJ	Utah,U.S.A.	40.6103N	111.4000W	1926	From 1992-10-22
Haines Junction	HYT	Yukon Territory,Canada	60.8250N	137.5040W	1416	
HAIS	HAIS	Kamchatskaya Oblast',Russia	60.9300N	166.8000E	175	
Haiwee	HAI	California,U.S.A.	36.1367N	117.9470W	1150	From 1929-09-11 to 1965-10-27
Haiwee Spring South	HWSM	California,U.S.A.	36.1050N	117.7610W	1436	From 1975-09-26
Haiwe Spring S	WHSM	California,U.S.A.	36.1050N	117.7610W	1436	From 1975-09-26
Hajjah	HAJJ	Yemen	15.6990N	43.5990E	1650	From 1994-11-01
Hakkari	HKR	Turkey	37.5780N	43.7408E	1750	From 2004-06-18
HAKKARI	HAKT	Turkey	37.5579N	43.7071E	2153	From 2005-07-04
Hakkari_Y^…ksekova	YOVA	Turkey	37.5871N	44.2896E	1946	From 2011-11-29
Hakmana	HALK	Sri Lanka	6.0885N	80.6805E	117	From 2011-05-12
Hakodate	HAK	O shima,Japan	41.8150N	140.7583E	35	
Hakodate 2	HAKJ	O shima,Japan	41.8333N	140.7783E	80	From 1992-02-25
Hakui	JJH	Ishikawa,Japan	36.9250N	136.7817E	35	
Halaksitan	HLD	Djibouti	11.5965N	42.4323E	-75	From 1979-09-23
Halanga-Turnu Severin	RMGR	Romania	44.6627N	22.6922E	113	From 2008-08-29
Halavar	AIDS	Armenia	40.7783N	44.3800E	1800	
Halavar	MOLS	Armenia	40.7367N	44.4167E	1960	
Haldarsvik	FHV	Faeroe Islands	62.2597N	7.0984W		
Haleakala	HKL	Hawaii,U.S.A.	20.7106N	156.2590W	3051	From 1975-01-01
Haleakala	HLK	Hawaii,U.S.A.	20.7583N	156.2479W	2132	From 1958-09-01
Halema'uma'u Trail	HATHI	Hawaii,U.S.A.	19.4230N	155.2610W	1082	
Hale Pohaku	HPU	Hawaii,U.S.A.	19.7808N	155.4580W	3396	From 1969-08-18
Haliburton	G53A	Ontario,Canada	45.1222N	78.6237W	333	From 2012-11-18
Halifax	HAL	Nova Scotia,Canada	44.6377N	63.5920W	64	From 1915-01-01
Halim	HALM	Morocco	31.7680N	9.4700W	0	
Hallabat	HLBJ	Jordan	32.0775N	36.3025E	827	From 1987-01-01
Halle	HLE	Sachsen-Anhalt,Germany	51.4979N	11.9569E	92	
Hallett	HTT	South Australia,Australia	33.4306S	138.9220E	708	From 1962-06-01
Halley Bay	HBA	Coats Land	75.5167S	26.6000W		
Hallie	T52A	Kentucky,U.S.A.	37.1076N	82.9852W	436	From 2012-05-15
Hallimjungang-ro	HALB	Republic of Korea	33.4019N	126.2729E	26	From 2012-12-28
Hall Mountain, Copeland	A11A	Idaho,U.S.A.	48.9580N	116.3631W	1455	From 2006-10-10 to 2008-06-12
Halls	HALT	Tennessee,U.S.A.	35.9106N	89.3395W	85	
Hall's Lagoon	HLA	New South Wales,Australia	33.5226S	150.9160E	27	
Hallstavik	HVK	Sweden	60.0090N	18.5660E	20	From 1980-01-01 to 1991-12-31
Haltingen (BS)	HALTI	Switzerland	47.6069N	7.5933E	-295	From 2006-10-01
Hamada	HMD	Shimane,Japan	34.8933N	132.0730E	21	
Hamaker Mountain	HAMO	Oregon,U.S.A.	42.0690N	121.9710W	1999	From 1993-10-06
Hamakita	JHMK	Shizuoka,Japan	34.8162N	137.7587E	-700	From 2002-01-01
Hamamatsu	HMM	Shizuoka,Japan	34.7067N	137.7233E	33	
Hamamatsu 2	HMMJ	Shizuoka,Japan	34.8558N	137.7215E	150	From 1989-03-25
Hambach	BD05	Nordrhein-Westfalen,Germany	50.9366N	6.4832E	90	From 2001-01-01
Hambach Funkstation	BD08	Nordrhein-Westfalen,Germany	50.8842N	6.5017E	114	From 2001-01-01
Hamburg	HAM	Hamburg,Germany	53.4651N	9.9248E	30	From 1905-01-01
Hamburg	HMB	New York,U.S.A.	42.6545N	78.8525W	290	From 1971-09-01 to 1976-07-28
Hamden	M62A	Connecticut,U.S.A.	41.4423N	72.8939W	24	From 2013-09-12
Hamelton Butte	VHBM	Oregon,U.S.A.	42.7858N	121.3490W	1945	
Hamer Butte	HID	Idaho,U.S.A.	43.9631N	112.1640W	1527	From 1979-08-24 to 1999-08-25
H?mikon, D?likerfeld, LU	HAMIK	Switzerland	47.2451N	8.2706E	532	From 2013-12-09
Hamilton	HMT	Alaska,U.S.A.	60.3365N	144.2610W	620	From 1977-06-01
Hamilton	HML	Ontario,Canada	43.2500N	79.8500W		
Hamilton	HNY	New York,U.S.A.	42.8318N	75.5148W	500	From 1974-07-01 to 1978-08-31
Hamilton Opening	GHOM	California,U.S.A.	39.0444N	123.5400W	687	
Hamilton Ranch	HMR	California,U.S.A.	38.1547N	121.8003W	65	From 1971-04-29
Hamilton Ranch, Breckenridge	133A	Texas,U.S.A.	32.6083N	98.9162W	418	From 2009-11-12 to 2011-09-08
Hamitkoy-Ladik(Samsun)	HKOY	Turkey	40.8920N	35.9883E	1106	From 2013-12-06
Hamley Bridge	HML1	South Australia,Australia	34.4034S	138.5889E	73	From 2007-03-28
Hamman Mousa	HAMM	Egypt	28.2763N	33.5778E		
Hammer	RHAM	Bayern,Germany	47.8040N	12.7200E	799	From 2001-04-09
Hammerfest	HAMF	Norway	70.6424N	23.6843E	105	From 2010-06-11
Hammernes	N1R5	Norway	66.3870N	14.0330E	62	
Hamm, Michael-Ende-School	HMES	Nordrhein-Westfalen,Germany	51.6578N	7.7263E	56	From 2004-08-01
Hammonton	P61A	New Jersey,U.S.A.	39.6734N	74.7919W	22	From 2013-05-29
Hamra	HMRJ	Jordan	32.0450N	36.3110E	708	
Hamren	HMNA	Assam,India	25.9233N	92.6083E		From 1985-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Hamta	HMTJ	Jordan	32.2208N	35.8122E	550	From 1983-09-01 to 1984-09-30
Hamyang	HAMB	Republic of Korea	35.5115N	127.7456E	95	From 2012-11-02
Hanceville	HVA	Alabama,U.S.A.	34.0264N	86.7692W	195	
Handcock Road	HRRZ	North Island,New Zealand	38.3901S	176.2838E	590	From 2007-03-22
Haney	HNBB	British Columbia,Canada	49.2873N	122.5729W	392	From 2013-11-21
Haney	HYC	British Columbia,Canada	49.2656N	122.5730W	150	From 1975-09-01 to 1980-07-04
Haney	HNB	British Columbia,Canada	49.2744N	122.5790W	185	From 1980-06-20
Hanford	HAWA	Washington,U.S.A.	46.3925N	119.5326W	364	
Hanford	HAN	Washington,U.S.A.	46.6033N	119.4670W	329	
Hanford Gable Butte	HGB	Washington,U.S.A.	46.5977N	119.4620W	165	
Hania	HANT	Tunisia	35.8333N	10.3635E	165	
Hanimaadhoo	HMDM	Maldives	6.7731N	73.1822E	0	From 2008-01-22
Hanita	HNTI	Israel	33.0830N	35.1740E	301	
Hanksville Airport, Hanksville	R17A	Utah,U.S.A.	38.4187N	110.7109W	1357	From 2007-06-26 to 2009-03-10
Hannah	HH2ND	North Dakota,U.S.A.	48.9442N	98.6822W	488	From 1966-05-23
Hannah	HH-ND	Montana,U.S.A.	48.9481N	98.6925W	488	From 1963-07-22 to 1964-08-05
Hannah	HH-	Montana,U.S.A.	48.9481N	98.6925W	1100	From 1963-07-22 to 1964-08-05
Hannah	HH2	North Dakota,U.S.A.	48.9442N	98.6822W	488	From 1966-05-23
Hanning Flat	WHFM	California,U.S.A.	35.6962N	118.3490W	902	
Hanno	JHU	Saitama,Japan	35.8517N	139.2817E	245	
Hanoi	HNV	Vietnam	21.0481N	105.7970E	6	
Hanover	HNH	New Hampshire,U.S.A.	43.7053N	72.2856W	180	From 1975-06-15
Han Pijesak,BIH	HAPS	Bosnia and Herzegovina	44.0862N	18.9507E	1199	
Hansel Valley	HVU	Utah,U.S.A.	41.7797N	112.7750W	1609	
Hans M'sky res	HMSA	South Africa	23.7288S	30.6680E	474	
Hans Werner Braun Residence, San Diego	HWB	California,U.S.A.	33.0262N	116.9596W	478	
Hanuchal	HNL1	Pakistan	35.8390N	74.7080E	1440	From 2012-01-01
Hanur-Agry	AGRB	Turkey	39.5755N	42.9920E	1820	From 2006-11-21
Hanwell	HANN	New Brunswick,Canada	45.8818N	66.7677W	102	From 2013-01-13
HAPCHEON	KSHAC	Republic of Korea	35.5572N	128.1699E	33	From 2000-12-05
Happy Creek Ranch, Winnemucca	M08A	Nevada,U.S.A.	41.4483N	118.3792W	1288	From 2006-02-14 to 2008-04-02
Haql	HQL	Saudi Arabia	29.2700N	35.0469E	285	From 1986-01-01
Haql	HAQS	Saudi Arabia	29.0500N	34.9200E	320	
HARA	HARA	Ethiopia	9.2858N	43.2782E	1905	
Harad	HRAD	Yemen	16.4167N	43.0500E	0	
Harads	HARU	Sweden	66.1635N	20.9752E	105	From 2006-09-19
Harare	HARE	Zimbabwe	17.7000S	31.0100E	1501	
Harban	HAR1	Pakistan	35.4270N	73.6200E	2038	From 2007-09-01
Harbor Island ANSS-SMO	HART	Washington,U.S.A.	47.5838N	122.3501W	2	From 2005-02-09
Harden Midland Farm, Stronghurst	N41A	Illinois,U.S.A.	40.7077N	90.8552W	226	From 2011-08-23
Harding Lake	HDA	Alaska,U.S.A.	64.4091N	146.9482W	437	From 1977-09-01
Hardington	K33A	Nebraska,U.S.A.	42.6052N	97.0012W	507	From 2010-07-20 to 2012-05-12
Hard Times	NEV	Nevis,Saint Kitts and Nevis	17.1361N	62.5710W	244	From 1980-07-09
Hardware Ranch	HWUT	Utah,U.S.A.	41.6069N	111.5652W	1830	
Hardware Ranch	HRUT	Utah,U.S.A.	41.6073N	111.5650W	1720	
Hargill	035Z	Texas,U.S.A.	26.4630N	98.0683W	19	From 2010-01-09 to 2011-11-20
Harich	HARI	Armenia	40.6080N	44.0000E	1980	From 1994-11-01
Harlan Ranch	PHAM	California,U.S.A.	35.8360N	120.3980W	455	
Harlequin Lake	HQN	Alaska,U.S.A.	59.4517N	138.8770W	372	From 1974-10-01
Harlowton	E18A	Montana,U.S.A.	46.5663N	109.9137W	1459	From 2007-09-14 to 2009-09-08
Harm Buss Farm, Glidden	L36A	Iowa,U.S.A.	42.1009N	94.6676W	353	From 2010-11-07 to 2012-10-21
Harmony Heights	HHI	Idaho,U.S.A.	46.4757N	116.1470W	636	From 1971-10-01 to 1974-07-15
Harness Mountain	HSO	Oregon,U.S.A.	43.5258N	123.0900W	1020	From 1990-09-20
Haroharo	HARZ	North Island,New Zealand	38.0894S	176.5022E	740	From 1992-06-16 to 2004-04-30
Harold F. Ross	AHRM	California,U.S.A.	38.8543N	121.0700W	345	From 1976-01-29
Harpers Horsepen, Conroe	538A	Texas,U.S.A.	30.2219N	95.4900W	59	From 2010-01-28 to 2011-11-10
Harrah City Hall	OK007	Oklahoma,U.S.A.	35.4877N	97.1612W	325	
Harre	HARN	Nepal	28.4200N	81.6700E	1230	
Harrington	F57A	Quebec,Canada	45.8122N	74.6928W	178	From 2013-07-27
Harrisburg	HBAR	Arkansas,U.S.A.	35.5550N	90.6572W	74	
Harrisburg (Southeastern Illinois College)	HAIL	U.S.A.	37.7527N	88.4373W	123	
Harrisonburg	HBV	Virginia,U.S.A.	38.4383N	78.8725W	411	From 1971-06-01
Harrison Lake South	HLSB	British Columbia,Canada	49.2836N	121.7249W	18	
Harrison Mills	HRMB	British Columbia,Canada	49.2446N	121.9391W	3	
Harrison Substation	HAO	Oregon,U.S.A.	45.5092N	122.6567W	18	
Harris Ranch	HRC	California,U.S.A.	36.7700N	121.4130W	228	
Harrisville	H48A	Michigan,U.S.A.	44.7006N	83.3249W	244	From 2012-11-05
Harry Jones Memorial, Binghamton	L58A	New York,U.S.A.	42.0447N	75.8502W	447	From 2013-07-03
Harsova	HARR	Romania	44.6900N	27.9310E	118	
Hartford	S47A	Kentucky,U.S.A.	37.5946N	86.8779W	181	From 2012-06-07
Hartford	HAR	Connecticut,U.S.A.	41.7500N	72.6833W		From 1947-01-01 to 1954-12-31
Hartland	HTL	England,United Kingdom	50.9944N	4.4850W	91	From 1981-05-01
HartRAO	HRAO	South Africa	25.8902S	27.6859E	1375	From 2014-10-01
Harts Bluff	HBF	South Carolina,U.S.A.	32.9331N	80.3777W	10	From 1973-03-23
Hartsel	Q23A	Colorado,U.S.A.	38.9045N	105.8337W	2774	From 2008-06-25 to 2010-06-16
Hartselle	X48A	Alabama,U.S.A.	34.4517N	87.0452W	180	From 2011-12-14
Harvey Farm, Monticello	S19A	Utah,U.S.A.	37.7459N	109.1366W	2059	From 2007-06-23 to 2009-03-06
Harwood	Q59A	Maryland,U.S.A.	38.8644N	76.6548W	34	From 2013-04-19
Hasanabad	IHSB	Iran	35.4378N	51.2757E	1119	From 1996-01-01
Hashikami	HSH	Iwate,Japan	40.4117N	141.5830E	355	
Hashim	HSHJ	Jordan	29.4210N	35.4000E	1100	From 1989-09-04
Hashtrud	IHSH	Iran	38.3067N	47.2630E	2805	From 1995-08-01
Haskell	Z32A	Texas,U.S.A.	33.3066N	99.4783W	427	From 2009-03-10 to 2011-02-10
Hasliberg/Brienz	HASLI	Switzerland	46.7568N	8.1512E	1280	From 1999-03-01
Hassan Addkhil	HAD	Morocco	31.9950N	4.4550W	1124	
Hassela	HASU	Sweden	62.1532N	16.6136E	100	From 2000-04-13
Hasselmere	SFH	England,United Kingdom	51.0604N	0.6912W	260	
Hastings	HAS	North Island,New Zealand	39.6382S	176.8385E	10	From 1931-02-01 to 1946-12-22
Hastings	HT-MN	Minnesota,U.S.A.	44.8528N	92.8778W	274	From 1962-08-02 to 1962-10-05
Hastings	HT-	Minnesota,U.S.A.	44.8528N	92.8778W	274	From 1962-08-02 to 1962-10-05
Hastings Reserve	HAST	California,U.S.A.	36.3887N	121.5514W	542	From 2004-07-19 to 2007-09-02
Hastings State Park	BHSM	California,U.S.A.	36.3558N	121.5400W	646	From 1975-09-04
Hata	HATH	Aomori,Japan	41.3011N	140.9643E	180	
Hatay	HTY	Turkey	36.1212N	36.1378E	84	
Hatchie Coon Island	HCI	Arkansas,U.S.A.	35.6950N	90.3450W	67	
Hat Creek	LHCM	California,U.S.A.	40.8050N	121.5140W	1020	
Hat Creek Radio Observatory, Hat Creek	HATC	California,U.S.A.	40.8161N	121.4612W	1013	From 2005-05-19 to 2007-09-07
Hateruma jima	HATJ	Ryukyu Islands,Japan	24.0567N	123.8050E	15	From 1992-02-24
Hatgal	HTG	Mongolia	50.4600N	100.1700E	1680	
Hathaway	HAWT	Missouri,U.S.A.	36.2256N	89.6596W	81	
Hatillo	SDD06	Dominican Republic	19.0363N	70.2135W	240	
Hat Mesa	HTMS	New Mexico,U.S.A.	32.4725N	103.6340W	1192	From 1991-01-01
Hato, Curacao	HATO	Venezuela	12.1803N	68.9579W	40	From 2013-12-01
Hato Mayor	HTM1	Dominican Republic	18.7629N	69.2559W	130	
Hatta, Dubai	HATD	United Arab Emirates	24.8257N	56.1321E	340	From 2006-05-17
Hattaushi	HTUJ	Hokkaido,Japan	43.2050N	145.3288E	75	From 1997-04-09
Hattorf	HAT	Hessen,Germany	50.8297N	9.9442E	-592	From 1980-01-01
Haudompre	HAU	Lorraine,France	48.0056N	6.3481E	577	
Hauiti	HIZ	North Island,New Zealand	38.5129S	174.8557E	237	From 2004-02-03
Haukadalur	IHAU	Iceland	63.9690N	19.9650W	96	From 1989-12-08
Haulerwijk	HWF1	Netherlands	53.0710N	6.3512E	-43	From 2010-11-24 to 2010-11-24
Haulerwijk	HWF4	Netherlands	53.0710N	6.3512E	-193	From 2010-11-24 to 2010-11-24
Haulerwijk	HWF	Netherlands	53.0718N	6.3516E	6	
Haulerwijk	HWF3	Netherlands	53.0710N	6.3512E	-143	From 2010-11-24 to 2010-11-24
Haulerwijk	HWF2	Netherlands	53.0710N	6.3512E	-93	From 2010-11-24 to 2010-11-24
Haus	N2B5	Norway	61.9220N	5.5850E	30	
Hausauer Farms, Kief	C28A	North Dakota,U.S.A.	47.7157N	100.3871W	524	From 2009-08-13 to 2011-06-29
Hausen	HSND	Baden-Wurttemberg,Germany	48.3042N	9.1938E	709	From 1982-01-01
Hauterive	HTQ	Quebec,Canada	49.1917N	68.3939W	123	From 1982-04-15
Havelock	HVLK	Andaman Islands,India	12.0090N	92.9640E	60	From 2012-01-01
Havelock North	HNZ	North Island,New Zealand	39.6699S	176.8852E	18	From 1947-03-01 to 1953-03-31
Havelock North	HNHZ	North Island,New Zealand	39.6635S	176.8814E	10	From 1989-08-05 to 1997-08-04
Havelock Quarry	HKNB	New Brunswick,Canada	45.9783N	65.3801W	164	From 2013-09-05
Haverah Park	HPK	England,United Kingdom	53.9581N	1.6241W	227	From 1978-01-01
Haverstraw	HAVE	New York,U.S.A.	41.2325N	74.1113W	268	
Havilah	WHVM	California,U.S.A.	35.5099N	118.5190W	971	
Havilah	HAV	California,U.S.A.	35.5100N	118.5170W	990	From 1952-07-01 to 1952-09-04
Havirov	HAVC	Czech Republic	49.7630N	18.4770E	0	
Havre	HV-	Montana,U.S.A.	48.4222N	109.8222W	884	From 1965-10-25 to 1967-12-10

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Havre	HV-MA	Montana,U.S.A.	48.4222N	109.8222W	884	From 1965-10-25 to 1967-12-10
Havza	HAVZ	Turkey	41.0743N	35.7180E	575	From 2008-12-04
Hawaii-2 Observatory	H2O	North Pacific Ocean	27.8819N	141.9917W	-4947	
HawaiianBeaches	HBH	Hawaii,U.S.A.	19.5315N	154.8980W	92	
Hawaiian Volcano	HVO	Hawaii,U.S.A.	19.4211N	155.2930W	1240	From 1912-01-01
HAWAII INFRASONIC ARRAY REFERENCE POINT	I59US	Hawaii,U.S.A.	19.5915N	155.8936W	1076	From 2001-02-20
Hawaii Institute of Geophysics	HIG	Hawaii,U.S.A.	21.2847N	157.8190W	18	From 1964-05-01
Hawaii Isl. Ar.	HW-IS	Hawaii,U.S.A.	19.9803N	155.7056W	705	From 1963-07-24 to 1964-10-22
Hawaii Isl. Ar.	HW-	Hawaii,U.S.A.	19.9803N	155.7056W	705	From 1963-07-24 to 1964-10-22
Hawaii Preparatory Academy	HPAH	Hawaii,U.S.A.	20.0303N	155.6973W	755	
Haweek	HAWK	Syria	34.5211N	36.4055E	1000	From 1995-09-01
Hawker	HKER	South Australia,Australia	31.7642S	138.5524E	440	
Hawkesdale P12 School	AUHPC	Victoria,Australia	38.1100S	142.3200E	11	From 2013-05-18
Hawksbury Island	HWKB	British Columbia	53.5984N	129.1544W	778	From 2014-08-21
Hawk's Nest	HWKN	South Australia,Australia	29.9578S	135.2035E	180	From 1981-06-22
Hawks Nest	HKN	South Australia,Australia	30.0117S	135.1867E	171	
Hawk Springs	HK-WY	Wyoming,U.S.A.	41.6958N	104.3569W	1494	From 1962-07-17 to 1962-10-05
Hawk Springs	HK-	Wyoming,U.S.A.	41.6958N	104.3569W	1494	From 1962-07-17 to 1962-10-05
Hawqa	HWQ	Lebanon	34.2780N	35.9463E	1161	From 2001-02-01
HAYA	HAYA	Costa Rica	9.9801N	83.8428W	3245	
Hayfield	HAY	California,U.S.A.	33.7074N	115.6839W	413	From 1956-06-20
Hayfork Bally	KHBM	California,U.S.A.	40.6602N	123.2190W	1885	
Hayseed and Buckwheat Dairy Farm	HBDB	British Columbia,Canada	49.1697N	122.2135W	6	
Hay Springs	HS-	Nebraska,U.S.A.	42.4256N	102.7144W	1158	From 1962-05-09 to 1962-06-28
Hay Springs	HS-NB	Nebraska,U.S.A.	42.4256N	102.7144W	1158	From 1962-05-09 to 1962-06-28
Haystack Butte	HYS	California,U.S.A.	34.8638N	117.5690W	867	
Haystack Fork	HAYW	Wyoming,U.S.A.	43.6396N	110.3320W	2835	From 1990-09-01 to 2007-08-07
Haystack Lookout	HTW	Washington,U.S.A.	47.8035N	121.7690W	829	From 1975-06-11
Hayter Ranch, Fort Stockton	427A	Texas,U.S.A.	30.8498N	103.4018W	1031	From 2008-03-16 to 2010-02-12
Hayti	HATI	Missouri,U.S.A.	36.1770N	89.6760W	83	
Hazelwood Elementary School	RHAZ	Washington,U.S.A.	47.5405N	122.1857W	10	
Hazlehurst	255A	Georgia,U.S.A.	31.9263N	82.4758W	45	From 2012-04-04
Headley	HEA	England,United Kingdom	51.3583N	1.2639W	114	
Headquarters	HDQ	Colorado,U.S.A.	39.5583N	105.0790W	1683	From 1973-01-01 to 1976-11-30
Healdsburg	NHBM	California,U.S.A.	38.5893N	122.9090W	165	From 1975-02-21
Heard Island	HII	Heard Island,Australia	53.0200S	73.3850E	10	
Hearst Castle	PHCM	California,U.S.A.	35.6822N	121.1530W	514	
Hebbronville	034A	Texas,U.S.A.	27.0647N	98.6833W	155	From 2010-01-08 to 2011-11-17
Heber	HEB	Utah,U.S.A.	40.5015N	111.3358W	1925	
Heber	HR-	Arizona,U.S.A.	34.6697N	110.7664W	1875	From 1964-07-10 to 1965-10-04
Heber	HR-AZ	Arizona,U.S.A.	34.6697N	110.7664W	1875	From 1964-07-10 to 1965-10-04
Hebgen Lake	YHL	Montana,U.S.A.	44.8509N	111.1830W	2691	From 2011-09-02
Hebgen Ridge	YPHR	Idaho,U.S.A.	44.8523N	111.3160W	2060	
Hebron	O33A	Nebraska,U.S.A.	40.0755N	97.5845W	480	From 2010-05-19 to 2012-04-18
Hecla	F31A	South Dakota,U.S.A.	45.8598N	98.2525W	412	From 2010-09-07 to 2012-06-07
Hector,Ludlow	HEC	California,U.S.A.	34.8294N	116.3350W	920	From 1997-08-01
Heda	HEDN	Shizuoka,Japan	34.9591N	138.8126E	160	
Heda	HDAN	Shizuoka,Japan	34.9620N	138.8201E	250	
Hedekas	HED	Sweden	58.6800N	11.7780E	78	From 1980-01-01 to 1991-12-31
Heerlen	HEE	Netherlands	50.8850N	5.9817E	115	From 1926-04-18 to 1981-01-01
Heflinger Ranch	PHFM	California,U.S.A.	35.8816N	120.4016W	457	
Hefner Road	OK003	Oklahoma,U.S.A.	35.5493N	97.3358W	354	
Hegura jima	JHG	Ishikawa,Japan	37.8483N	136.9200E	12	
Heguri	JHE	Nara,Japan	34.6535N	135.6850E	260	
Hehuan Shan	WHF	Taiwan region	24.1450N	121.2650E	3395	
Heidelberg (Koenigstuhl)	HEI	Baden-Wurttemberg,Germany	49.3991N	8.7274E	560	From 1959-01-01
Heidenheim-Charlottenhoehle	HDH	Baden-Wurttemberg,Germany	48.5843N	10.2070E	501	From 1996-01-01
Heiheiahulu	HUL	Hawaii,U.S.A.	19.4188N	154.9790W	369	
Heiheiahulu Digital	HULD	Hawaii,U.S.A.	19.4160N	154.9750W	368	
Heimansgroeve	HGN	Netherlands	50.7640N	5.9317E	135	From 1993-03-01
Heimerzheim	BA15	Nordrhein-Westfalen,Germany	50.7117N	6.9275E	157	From 2006-10-01
Heinrich-Robert Mine	HRH	Nordrhein-Westfalen,Germany	51.6234N	7.7527E	-888	
Heinsberg	BA13	Nordrhein-Westfalen,Germany	51.0707N	6.0753E	42	From 2006-10-01
Heioarbar	IHEI	Iceland	64.2000N	21.2360W	162	From 1989-12-13
Hejung	EHC	Taiwan region	24.2680N	121.7330E	11	
Hel	PHL	Poland	54.6080N	18.8170E	1	
Helez	HLZ	Israel	31.6000N	34.6400E	100	
Helgoland	HLG	Schleswig-Holstein,Germany	54.1847N	7.8839E	41	
Hella	IHLA	Iceland	65.9440N	18.3870W	37	From 1995-02-01
Hells Half Acre	HHAI	Idaho,U.S.A.	43.2950N	112.3790W	1391	
Helmville	HLM	Montana,U.S.A.	46.8894N	112.9330W	1365	From 1974-09-03 to 1976-10-04
Helsinki	HEL	Finland	60.1756N	24.9570E	20	
Helvecia	HSFA	Santa Fe,Argentina	31.1028S	60.1108W	90	
Helwan	HLW	Egypt	29.8583N	31.3417E	135	From 1903-01-01
Hemet	HMTC	California,U.S.A.	33.7088N	117.0039W	582	
Hempstead	HE-TX	Texas,U.S.A.	30.1997N	96.0919W	67	From 1963-07-25 to 1964-03-16
Hempstead	HE-	Texas,U.S.A.	30.1997N	96.0919W	67	From 1963-07-25 to 1964-03-16
Hemsoen	HEMU	Sweden	62.6760N	18.0359E	100	From 2000-04-13
Hendek	HENT	Turkey	40.8231N	30.8992E	583	
Henderson Mound	HENM	Missouri,U.S.A.	36.7160N	89.4717W	88	
Hengchuen, Pingtung county	TSEB	Taiwan region	21.9000N	120.9000E	0	From 2005-01-01
Hengchun	TWKBT	Taiwan region	21.9406N	120.8125E	90	From 1996-03-21
Hengchun	HEN	Taiwan region	22.0055N	120.7381E	22	
Hengchun	TWK1	Taiwan region	21.9433N	120.8053E	90	From 1978-01-15
Heniu Mare	HNM	Romania	47.2775N	24.7339E	1580	From 1982-09-01 to 1989-01-01
Henniker	J62A	New Hampshire,U.S.A.	43.2262N	71.8127W	266	From 2013-09-07
Henry Mountain	HMU	Utah,U.S.A.	37.9380N	110.7418W	2430	From 2005-11-17
Heoinshofoi	IHED	Iceland	66.0810N	17.3100W	75	From 2000-09-25
Hepburn Lake, NWT	HPLN	Northwest Territories,Canada	66.3485N	115.3232W	479	From 2009-07-16
Heping	ST25	Xizang Zizhiqu,China	32.5373N	88.9403E	4601	From 1998-07-26 to 1999-01-16
Heping Village	EHP	Taiwan region	24.3100N	121.7410E	200	From 2001-05-01
Hepp	HPP	Alaska,U.S.A.	64.7905N	147.9590W	170	From 1971-11-09 to 1976-06-30
Herakleio	HRKL	Crete,Greece	35.3115N	25.1017E	90	From 2013-03-09
Herakleio	HER1	Crete,Greece	35.3172N	25.1021E	60	From 2012-10-15
Herakleio	HER2	Crete,Greece	35.3379N	25.1355E	36	From 2012-09-15
Herakleio	HER3	Crete,Greece	35.3296N	25.1065E	5	From 2012-09-15
Heraklion	IACM	Crete,Greece	35.3058N	25.0709E	43	From 2009-11-28
Herat	HRA	Afghanistan	34.3868N	62.2438E	1917	From 2012-12-12
Herceg Novi	HCY	Montenegro	42.4473N	18.4938E	321	From 1983-12-25
Herculane	HERR	Romania	44.8810N	22.4160E	246	From 2011-01-11
Hercules	HERB	California,U.S.A.	38.0124N	122.2622W	-18	
Herd Peak	LHEM	California,U.S.A.	41.6285N	122.2190W	2155	From 1981-01-15
Heredia	HDC	Costa Rica	10.0013N	84.1140W	1150	From 1984-03-17
Heredia 2	HDC2	Costa Rica	10.0237N	84.1167W	1220	From 1985-01-01
Heredia 3	HDC3	Costa Rica	10.0021N	84.1114W	1175	
Heredia 4	HDC4	Costa Rica	10.0020N	84.1113W	1175	
Hereke	HRT	Turkey	40.8217N	29.6680E	645	From 1980-01-01
Hereke-Izmit	HRTX	Turkey	40.8010N	29.6730E	573	From 2011-10-01
Heris	IHRS	Iran	38.3183N	47.0420E	2100	From 1995-08-01
Herkenbosch	HKB	Netherlands	51.1889N	6.1684E	74	
Hermanus	HER	Cape Province,South Africa	34.4250S	19.2250E	26	
Hermiston	HRO	Oregon,U.S.A.	45.8357N	119.3810W	172	
Hernandez Reservoir, Idria	U04C	California,U.S.A.	36.3627N	120.7828W	812	From 2004-12-05 to 2007-12-11
Hernandez Valley	PHRM	California,U.S.A.	36.3730N	120.8190W	750	From 1969-11-26
Hernandez Valley	HVC	California,U.S.A.	36.3730N	120.8190W	750	From 1969-11-26
Hernando Brdge	HDBT	Tennessee,U.S.A.	35.1534N	90.0581W	66	
Herne Bay Borehole	HBAZ	North Island,New Zealand	36.8501S	174.7304E	-44	From 2009-08-06
Heron Place, Grans Saline	137A	Texas,U.S.A.	32.5973N	95.7559W	141	From 2010-02-24 to 2012-01-22
Herstmonceux	HMNX	England,United Kingdom	50.8674N	0.3363E	26	From 2009-05-16
Hesperia	PHSM	California,U.S.A.	35.8238N	121.0538W	451	
Hesperia Broadband	PHSB	California,U.S.A.	35.8240N	121.0539W	475	
Hetta	HEF	Finland	68.4080N	23.6600E	380	From 2006-11-01
Heukewalde	HKWD	Thuringen,Germany	50.8298N	12.2681E	317	From 2008-05-06
Heuksando	KSHUK	Republic of Korea	34.6838N	125.4518E	79	From 1999-04-18
Heuksan-myeon	HUK2	Republic of Korea	34.6871N	125.4504E	95	From 2011-12-19
Hexham	HEXM	Victoria,Australia	37.9280S	142.7780E	220	
Heybeliada	HYBL	Turkey	40.8680N	29.0816E	32	From 2011-04-21
Heybeliada-Istanbul	HYBA	Turkey	40.8754N	29.0854E	65	From 2012-09-12
Heyderabad	HYR	Azerbaijan	39.7190N	44.8520E	848	From 2011-11-30

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Hiawatha	HWK	Kansas,U.S.A.	39.8022N 95.4965W	320	From 1978-10-05 to 2001-07-15
Hibok Hibok	VHH	Mindanao,Philippines	9.2330N 124.6720E	250	From 1993-01-01
Hickman	HICK	Kentucky,U.S.A.	36.5409N 89.2288W	141	
Hickory Valley	W45A	Tennessee,U.S.A.	35.1568N 89.1860W	187	From 2011-05-17 to 2013-03-07
Hicks Bay	HBZ	North Island,New Zealand	37.5974S 178.3015E	100	From 1985-06-28 to 2004-03-02
Hicks Ranch, Ibapah	O13A	Utah,U.S.A.	40.1314N 113.9814W	1573	From 2007-02-21 to 2008-09-01
Hidaka	HDK	Wakayama,Japan	33.9259N 135.1390E	30	From 1965-01-01 to 1974-04-03
Hidaka-Cho	HIC	Hidaka,Japan	42.8915N 142.4573E	330	From 1976-07-01
Hidakashinhidaka	JSHD	Hokkaido,Japan	42.4098N 142.4667E	79	From 2012-07-01
Hidalgo Marine Base	HDB	California,U.S.A.	34.4008N 116.2874W	875	
Hidalgo Mountain	HDG	California,U.S.A.	34.4289N 116.3058W	1302	From 1974-04-01 to 2010-04-28
Hidden Bay	AD4	Alaska,U.S.A.	51.6986N 176.6320W	213	From 1974-01-01 to 1992-02-01
Hidden Dam	MHDM	California,U.S.A.	37.1171N 119.8950W	147	
Hidden Lake	HKP	Pennsylvania,U.S.A.	41.0382N 75.0617W	337	From 1973-02-01 to 1974-07-31
Hierbabuena	HIER	Ecuador	2.7200S 79.4200W	2800	
Hierro	EHRO	Spain	27.7535N 18.1106W	135	
Higginbotham Farm, Almira	C08A	Washington,U.S.A.	47.7849N 119.0454W	783	From 2006-09-21 to 2008-05-14
Highclere	BDH	Barbados	13.2030N 59.5890W	308	From 1978-11-19
Highcliff Hill	HHSZ	South Island,New Zealand	45.8843S 170.5978E	375	From 2006-04-08 to 2008-06-26
High Heaven	VHHM	Oregon,U.S.A.	45.2647N 123.3090W	533	
High Hole Crater	LHHM	California,U.S.A.	41.5228N 121.5325W	1890	
High Hoyland	HHWY	England,United Kingdom	53.5867N 1.5974W	205	
Highland	HLNC	California,U.S.A.	34.1213N 117.2190W	236	
Highland Ranch	HLR	Colorado,U.S.A.	39.5372N 104.9740W	1782	From 1973-01-01 to 1976-11-30
Highland Springs	GHLM	California,U.S.A.	39.0405N 123.0190W	956	From 1975-06-01
Highlands Station	HLRZ	North Island,New Zealand	38.2519S 176.3522E	576	From 2008-12-03
High Level	HILA	Alberta,Canada	58.5561N 117.0203W	329	From 2009-10-19
Highline Community College ANSS-SMO	HICC	Washington,U.S.A.	47.3899N 122.2991W	115	From 2001-06-27
High Valley	GHVM	California,U.S.A.	39.0850N 122.7340W	1036	
Higuera	EHIG	Spain	28.5567N 17.8062W	845	
Higuey	HGY1	Dominican Republic	18.5930N 68.7169W	141	From 2011-11-13
Hikami	HMTD	Hyogo,Japan	35.2265N 135.0435E	250	
Hikimi	JHIK	Shimane,Japan	34.5313N 131.9292E	350	From 1997-12-01
Hikinohira	HIKD	Kagoshima,Japan	31.5803N 130.6439E	550	
Hikone	HIK	Shiga,Japan	35.2733N 136.2470E	87	
Hile	HILE	Nepal	27.0482N 87.3242E	2088	From 2002-05-31 to 2002-12-30
Hilina Pali	HLP	Hawaii,U.S.A.	19.2960N 155.3080W	707	From 1970-09-01
Hill Air Force Base, Hill AFB, UT, USA	HAFB	Utah,U.S.A.	41.1179N 111.9759W	1471	From 2012-05-03
Hillesheim	HILG	Rheinland-Pfalz,Germany	50.2918N 6.6788E	500	From 1998-01-01
Hilliard	456A	Florida,U.S.A.	30.7248N 82.0223W	26	From 2012-02-04
Hillman	G47A	Michigan,U.S.A.	45.1730N 83.8551W	239	From 2012-11-11
Hillsboro	R51A	Kentucky,U.S.A.	38.3001N 83.5834W	231	From 2012-06-27
Hillsdale 1, Hillsdale	L61A	New York,U.S.A.	42.1934N 73.5543W	275	From 2013-09-14
Hill Springs, Alberta	HSPGA	Alberta	49.3593N 113.6523W	1154	From 2014-07-31
Hilltop Ranch, Iowa Park	Y33A	Texas,U.S.A.	34.0081N 98.6256W	321	From 2009-11-08 to 2011-09-07
Hilo	HIL	Hawaii,U.S.A.	19.7178N 155.0878W	26	From 1922-01-01 to 2000-11-09
Hilton	J55A	New York,U.S.A.	43.2657N 77.8167W	97	From 2012-12-12
Hilton Creek	HTCR	California,U.S.A.	37.5298N 118.7710W	3012	From 1984-07-19
Himeji	HIM	Hyogo,Japan	34.8367N 134.6733E	39	
Himekami	HMK	Iwate,Japan	39.8483N 141.2467E	586	
Hinai	JAH	Akita,Japan	40.1887N 140.6358E	140	
Hinchinbrook Island	HIN	Alaska,U.S.A.	60.3968N 146.5020W	611	From 1974-10-03
Hinckley	HKM	Maine,U.S.A.	44.6564N 69.6408W	79	
Hindmarsh Valley	HMV1	South Australia,Australia	35.4903S 138.6369E	95	From 2008-12-28
Hinemaiaia	HATZ	North Island,New Zealand	38.8908S 176.0921E	506	From 1985-05-01
Hines	J07A	Oregon,U.S.A.	43.3736N 119.3105W	1273	From 2006-06-20 to 2008-04-04
Hinesburg	HBVT	Vermont,U.S.A.	44.3623N 73.0650W	342	
Hingarae	HITZ	North Island,New Zealand	38.7069S 175.7665E	458	From 1984-12-01 to 1991-06-21
Hinohara	HHR	Tokyo,Japan	35.7353N 139.0764E	595	
Hino-misaki	HNMJ	Wakayama,Japan	33.8811N 135.0661E	191	
Hinrichs Farm, Grantsburg	F37A	Wisconsin,U.S.A.	45.7243N 92.6264W	296	From 2011-08-28 to 2013-07-10
Hinsdale	L55A	New York,U.S.A.	42.1831N 78.4368W	633	From 2013-01-24
Hinteralfeld	HINF	Lorraine,France	47.8167N 6.8531E	720	From 1996-04-03
Hinton	HWV	West Virginia,U.S.A.	37.5906N 80.8408W	521	From 1978-04-01 to 1998-12-31
Hinze Dam	HINZ	Queensland,Australia	28.0511S 153.2807E	140	
Hiratsu	HRTT	Yamagata,Japan	39.0100N 139.9400E	40	
Hirodai	HRD	Aomori,Japan	40.5842N 140.4773E	50	
Hirogawara	HRG	Shizuoka,Japan	35.1584N 139.0586E	285	
Hiroka	JHK	Fukushima,Japan	37.2483N 139.0170E	195	From 1994-04-01
Hiroo	HOO	Tokachi,Japan	42.2917N 143.3200E	32	
Hiroo 2	HOOJ	Tokachi,Japan	42.3833N 143.2870E	-1	
Hirosakihyakuzawa	JHHS	Aomori,Japan	40.6518N 140.3590E	220	From 2012-07-01
Hiroshima	HIR1	Hiroshima,Japan	34.3950N 132.4650E	-4	From 1987-12-23
Hiroshima	HIR	Hiroshima,Japan	34.3633N 132.4370E	30	From 1935-01-01
Hiroshima 2	HIRJ	Hiroshima,Japan	34.4283N 132.5650E	412	From 1988-03-22
Hirz Mountain	LHMM	California,U.S.A.	40.8968N 122.2450W	1064	
Hisarcik	HIS	Turkey	40.4687N 29.9313E	970	From 1993-01-01
Hisarkoy	HSY	Cyprus	35.1734N 33.0552E	257	From 2005-05-11
Hitachi	JHO	Tochigi,Japan	36.6108N 140.5690E	215	From 1995-04-01
Hitachinakayamanoue	JHYU	Ibaraki,Japan	36.3405N 140.5868E	20	From 2012-07-01
Hittiya	HITJ	Jordan	29.7430N 35.8410E	1235	From 1989-10-29
Hiyama	JHY	Hiyama,Japan	41.6777N 140.0573E	30	
Hiyamasetana	JHST	Hokkaido,Japan	42.4225N 139.8767E	20	From 2012-07-01
HIZO	HIZO	Bolivia	19.6064S 68.3233W	3688	From 1994-05-30 to 1995-08-08
Hjoernedal	HJO	Greenland	70.3520N 28.1640W	40	From 2000-08-15 to 2002-08-12
H. Mason	HMO	Oregon,U.S.A.	45.5381N 122.5720W	64	From 1975-01-01
Hnaberd	HNAZ	Armenia	40.6330N 44.1440E	2150	
Hlnxe	BZER	Nordrhein-Westfalen,Germany	51.6207N 6.8695E	51	From 2004-12-08
Ho	HOGH	Ghana	6.6092N 0.4450E	372	From 1987-01-01
Hoa Binh	HBV2	Vietnam	20.7962N 105.3387E	80	
Hoa-Binh	HBVN	Vietnam	20.8259N 105.3520E	30	From 1979-07-27
Hoadley Peaks	LHOM	California,U.S.A.	40.6852N 122.7500W	1378	
Hoarfrost River	HFRN	Northwest Territories,Canada	62.8617N 109.2777W	153	From 2011-07-12
Hobart	HB-OK	Oklahoma,U.S.A.	35.1764N 98.9103W	491	From 1961-11-09 to 1963-04-10
Hobart	FNT	Tasmania,Australia	42.9265S 147.3540E	184	From 1957-01-01 to 1962-12-31
HOBART INFRASONIC ARRAY REFERENCE POINT	I05AU	Tasmania,Australia	42.4908S 147.6806E	350	From 2003-03-29
Hobart Mills	HBT	California,U.S.A.	39.4267N 120.1630W	1804	From 1973-04-01
Hobart Mills	HBM	California,U.S.A.	39.4017N 120.1530W	1804	From 1970-03-24 to 1973-04-30
Hobart (Okla)	HB-	Oklahoma,U.S.A.	35.1764N 98.9103W	491	From 1961-11-09 to 1963-04-10
Hobbs	HHAR	Arkansas,U.S.A.	36.2817N 93.9399W	421	
Hochheid	FSH	Rheinland-Pfalz,Germany	50.0763N 7.1087E	350	
Hochneukirch	BD09	Nordrhein-Westfalen,Germany	51.0963N 6.4650E	88	From 2001-01-01
Hockley	HKT	Texas,U.S.A.	29.9500N 95.8333W	-415	From 1973-06-01
Hodge	HOD	California,U.S.A.	34.8389N 117.2475W	807	
Hodges	HODGE	South Carolina,U.S.A.	34.2315N 82.2586W	150	
Hodges Ranch	BHRM	California,U.S.A.	36.7278N 121.2640W	213	
Hof	HOF	Bayern,Germany	50.3136N 11.8775E	566	From 1909-01-01 to 2004-08-13
Hoffart Farm, Langdon	A30A	North Dakota,U.S.A.	48.9402N 98.3009W	484	From 2009-08-19 to 2011-07-15
Hoffen	HOFF	Alsace,France	48.9417N 7.9639E	150	
Hogan Spring (BLM), Cisco	Q19A	Utah,U.S.A.	38.9553N 109.2630W	1283	From 2007-06-14 to 2009-04-26
Hogback Mountain	HOG	Oregon,U.S.A.	42.2424N 121.7057W	1887	
Hogback Ridge	GHGM	California,U.S.A.	39.1283N 122.8250W	903	From 1975-04-18
Hog Canyon	PHGM	California,U.S.A.	35.8760N 120.4840W	792	
Hoggard's Bluff	HOGG	Arkansas,U.S.A.	35.2216N 92.2410W	133	From 1985-08-01
Hogget Hill	HHP	South Island,New Zealand	44.3259S 170.3456E	490	From 1975-06-18 to 1983-11-21
Hogsback Ridge	HRU	Utah,U.S.A.	40.7862N 111.8848W	1640	
Hohbusch	HOBG	Nordrhein-Westfalen,Germany	50.9835N 7.3338E	270	From 1996-03-01
Hohenheim	HOH	Baden-Wurttemberg,Germany	48.7167N 9.2167E	396	From 1903-01-01 to 1934-01-31
Hohentengen	HTN	Baden-Wurttemberg,Germany	48.0293N 9.3784E	571	From 1984-01-01
Hohenwarte Talsperre	HWTS	Thuringen,Germany	50.5923N 11.4723E	555	From 2009-11-01
Hohe Rhon--Flad	HROE	Bayern,Germany	50.5366N 10.1574E	569	From 2002-12-10
Hohkeppel	HOK	Nordrhein-Westfalen,Germany	50.9803N 7.3122E	230	From 1976-06-01 to 1994-12-01
Hoima	HOI	Uganda	1.4180N 31.3420E	1094	From 1991-07-01
Hokigiyama	HOKE	Yamanashi,Japan	34.8488N 139.0413E	900	
Hokkaido University	HSS	Ishikari,Japan	42.9647N 141.2320E	215	
Hokoriku	HKJ	Fukui,Japan	35.9375N 136.2125E	20	
Hokuryu	JHR	Sorachi,Japan	43.7430N 141.7248E	195	
Holberg	HOLB	British Columbia,Canada	50.6405N 128.1320W	564	From 1991-08-01
Holcombe	G39A	Wisconsin,U.S.A.	45.2867N 91.1698W	350	From 2011-08-15 to 2013-11-13

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Holcomb Ridge	HOLC	California,U.S.A.	34.4582N	117.8451W	1160	
Holdsworth Station	HOWZ	North Island,New Zealand	40.8973S	175.5151E	475	From 2007-02-22
Hole	HLX	Nevada,U.S.A.	39.9337N	117.6632W	1219	
Holguin	HOL	Cuba	20.8940N	76.2630W	350	
Holguin	HLGC	Cuba	20.8900N	76.0600W	350	From 1999-09-01
Holladay	V46A	Tennessee,U.S.A.	35.8007N	88.1177W	162	From 2012-01-13
Holladay Fire Station, Holladay, Utah	HFSU	Utah,U.S.A.	40.6702N	111.8257W	1344	From 2010-08-17
Holland Mills	HMC	Quebec,Canada	45.7583N	75.6483W	175	
Holland Ranch, Erick	W31A	Oklahoma,U.S.A.	35.1864N	99.9435W	644	From 2009-03-22 to 2011-02-14
Holland Ranch, North Fork	M11A	Nevada,U.S.A.	41.4311N	115.7912W	1849	From 2006-05-06 to 2008-08-11
Hollywood	HWD	South Carolina,U.S.A.	32.7388N	80.2835W	9	
Hollywood	158A	South Carolina,U.S.A.	32.7364N	80.1935W	12	From 2013-02-24
Holman	HMNT	Northwest Territories,Canada	70.7631N	117.8058W	36	
Holmes Hill	YHH	Wyoming,U.S.A.	44.7883N	110.8505W	2717	
Holmfirth	LHO	England,United Kingdom	53.5451N	1.8548W	460	From 1991-01-01
Holstrom Ranch	JHLM	California,U.S.A.	37.1090N	121.8332W	908	From 1975-10-02
Holt	HLT	Alabama,U.S.A.	33.2223N	87.5077W	95	
Holter Research Foundation--Helena	HRF	Montana,U.S.A.	46.5943N	112.0440W	1256	
Holter Research Foundation--York Bridge	HRY	Montana,U.S.A.	46.7113N	111.8310W	1341	From 1980-11-08
Holt Ranch, Enterprise	S13A	Utah,U.S.A.	37.5808N	113.8604W	1698	From 2007-02-15 to 2008-10-09
Holy Cross	HCC	California,U.S.A.	36.9814N	121.7220W	159	From 1967-05-02 to 1975-10-12
Holy Mount Cemetery	HMCY	New York,U.S.A.	40.9648N	73.8032W	245	From 1985-12-01
Holy Rosary School	HOLY	Washington,U.S.A.	47.5654N	122.3839W	106	
Homack Ranch, Wilcox	118A	Arizona,U.S.A.	32.6399N	109.9697W	1440	From 2007-04-05 to 2009-01-21
Homborsund	HOMB	Norway	58.2702N	8.5052E	21	From 2008-11-20
Homer	HOM	Alaska,U.S.A.	59.6583N	151.6430W	198	From 1976-08-01
Homestead Farm, Martinsburg	P57A	West Virginia,U.S.A.	39.4835N	78.0126W	191	From 2013-05-21
Homestead National Monument	HMN	Nebraska,U.S.A.	40.2864N	96.8356W	368	From 1979-03-10 to 2001-07-15
Homyel'	NE57	Belarus	52.6030N	31.0810E	129	
Honcut	OHCM	California,U.S.A.	39.3357N	121.4840W	79	From 1975-08-05
Hondo	JHD	Kumamoto,Japan	32.4650N	130.1368E	70	
Hondo	HONK	Kumamoto,Japan	32.8761N	131.0780E	1167	
Honeyville	HONU	Utah,U.S.A.	41.6100N	111.9170W	1515	From 1989-06-13
Hong Kong Observatory	HKC	Hong Kong,China	22.3020N	114.1743E	27	From 1921-10-01
Hong Kong Po Shan	HKPS	Hong Kong,China	22.2776N	114.1415E	196	From 2009-10-01
Hongo	HGJ	Tokyo,Japan	35.7156N	139.7630E	19	From 1965-05-01
Hongo	HNG	Tokyo,Japan	35.7111N	139.7660E	18	
Honiara	HNR	Solomon Islands,Papua New Guinea	9.4316S	159.9470E	72	From 1960-10-01
Honjo	HJH	Akita,Japan	39.3383N	140.1730E	136	From 1975-04-01
Honjo	HJY	Akita,Japan	39.3383N	140.1730E	136	From 1975-04-01
Honolulu	HON	Hawaii,U.S.A.	21.3242N	158.0010W	2	From 1902-01-01
Honolulu	HNL	Hawaii,U.S.A.	21.3583N	157.8100W	243	From 1964-05-01 to 1974-12-31
Honuapo	HPO	Hawaii,U.S.A.	19.0889N	155.5540W	15	
Hood Meadows East	VHEM	Oregon,U.S.A.	45.3287N	121.6740W	1739	
Hoodsport	HDW	Washington,U.S.A.	47.6485N	123.0540W	1006	
Hope	HOPB	British Columbia,Canada	49.3873N	121.4205W	248	
Hope	HOJ	Jamaica	18.0045N	76.7494W	179	From 1965-08-21
Hope Bay	HOP	Jamaica	18.0220N	76.7500W	200	From 1961-11-01 to 1965-06-30
Hopedale	HDIL	Illinois,U.S.A.	40.5559N	89.2940W	219	From 2006-08-24
Hopen	HOPEN	Svalbard,Norway	76.5100N	25.0100E	25	From 2004-09-01
Hope Point	HOPE	South Georgia Islands	54.2836S	36.4879W	20	
Hope Ranch	PHPM	California,U.S.A.	35.9805N	120.6068W	548	
Hopewell Church	IP05	Virginia,U.S.A.	37.8303N	77.7557W	108	
Hopland Field Station, Hopland	HOPS	California,U.S.A.	38.9935N	123.0723W	299	From 1994-10-20
Hopovo Monastery	HOPOS	Serbia	45.1351N	19.8354E	310	From 2004-01-28
Hopper	HOPT	Tennessee,U.S.A.	36.3270N	89.4717W	125	
Hoqain	HOQ	Oman	23.5824N	57.3109E	350	From 2001-07-01
Horasan	HOMI	Turkey	40.0452N	41.9055E	2174	From 2006-09-18
Horco Molle	AHML	Tucuman,Argentina	26.7847S	65.3345W	670	From 1992-09-01
Horem	BA06	Nordrhein-Westfalen,Germany	50.9196N	6.7052E	73	From 2006-10-01
Hornachuelos	EHOR	Spain	37.8231N	5.2481W	160	From 1985-05-01
Hornachuelos	HORN	Spain	37.8466N	5.2582W	268	
Horndal	HRN	Sweden	60.2500N	16.4860E		From 1980-01-01
Hornillas	HORNC	Costa Rica	10.7125N	85.1783W	807	From 2000-01-01
Hornopire@15n	HOCH	Chile	41.9072S	72.4081W	165	
Hornsund	HSP	Svalbard,Norway	77.0082N	15.5504E		
Hornsund (broadband)	HSPB	Svalbard,Norway	77.0019N	15.5332E	10	
Horodok	HORU	Ukraine	49.2138N	26.4263E	340	From 2001-02-19
Horoka	HRK	Hokkaido,Japan	43.4663N	143.1287E	695	
Horominai	HORH	Iburi,Japan	42.4765N	140.9167E	235	
Horqueta	HOQC	Colombia	3.4680N	76.6337W	2220	From 1987-01-01
Horse Butte	YHB	Idaho,U.S.A.	44.7512N	111.1952W	2157	
Horse Canyon	HCU	Utah,U.S.A.	39.4883N	110.3450W	2134	From 1962-01-01 to 1977-03-31
Horsefly Mountain	VHYM	Oregon,U.S.A.	42.2645N	121.0490W	1932	
Horse Heaven Hills	HHH	Washington,U.S.A.	46.1717N	119.3840W	490	From 1987-03-01
Horse Mountain	KHMM	California,U.S.A.	40.8747N	123.7310W	1509	
Horse Pasture	SHEL	Saint Helena	15.9588S	5.7457W	537	From 1995-06-19
Horseshoe Bay	HBC	British Columbia,Canada	49.3775N	123.2760W		From 1951-01-01 to 1960-04-30
Horseshoe Beach	655A	Florida,U.S.A.	29.5107N	83.2552W	6	From 2012-02-15
Horse Springs, Datil	Y20A	New Mexico,U.S.A.	33.9085N	108.3769W	2177	From 2008-02-10 to 2009-12-06
Horse Wrangler Ranch, Akron	O26A	Colorado,U.S.A.	40.2422N	103.3128W	1413	From 2008-11-20 to 2010-10-13
Horta	HOR	Azores,Portugal	38.5267N	28.6300W	60	
Horta de San Juan	ERTA	Spain	40.9567N	0.3335E	547	
Hortiatis	HORT	Greece	40.5978N	23.0996E	933	From 2006-07-12
Horyu	HRJ	Ishikawa,Japan	37.3994N	137.1360E	275	
Hoseineyeh	IHOS	Iran	32.6793N	48.2365E	0	From 1998-01-01
Hoshina	HSJ	Nagano,Japan	36.5841N	138.2740E	490	From 1968-07-21
Hoskins	DAW	New Britain,Papua New Guinea	5.5500S	150.4670E	250	From 1969-11-02 to 1970-12-31
Hoskins	L33A	Nebraska,U.S.A.	42.1659N	97.2724W	556	From 2010-06-18 to 2012-04-30
Hososhima	JMH	Miyazaki,Japan	32.5717N	131.5883E	60	
Hossack Road	HSRZ	North Island,New Zealand	38.3113S	176.2449E	411	From 2010-04-13
Hot Caves	HTC	Hawaii,U.S.A.	19.2374N	155.3976W	381	
Hot Creek Range	HCR	Nevada,U.S.A.	38.2339N	116.4357W	2058	
Hotel Rinc^n de la Vieja Lodge	GPS2	Costa Rica	10.7525N	85.3520W	676	From 2000-01-01
Hotokeiwa	HTK	Nagano,Japan	36.3769N	138.5397E	1462	
Hot Spot	HSW	Washington,U.S.A.	46.5295N	119.5550W	217	From 1970-06-01 to 1971-10-31
Hotspring	HG4B	British Columbia,Canada	52.2931N	131.1975W	331	From 2012-11-10
Hotspring	HG3B	British Columbia,Canada	52.5766N	131.4435W	10	From 2012-11-13
Hot Springs	C13A	Montana,U.S.A.	47.6795N	114.5735W	976	From 2006-09-21 to 2009-08-04
Hot Springs Basin	YPHS	Wyoming,U.S.A.	44.7556N	110.3540W	2621	
Hot Springs Mountain	HOT	California,U.S.A.	33.3144N	116.5824W	1934	From 1976-01-01 to 2010-04-28
Houchin Ranch, La Veta	S24A	Colorado,U.S.A.	37.6407N	105.2126W	2672	From 2008-06-13 to 2010-04-16
Houelmont	HMG	Guadeloupe,France	15.9823N	61.7000W	420	
Houlton	HN-	Maine,U.S.A.	46.1619N	67.9858W	213	
Houlton	HN-ME	Maine,U.S.A.	46.1619N	67.9858W	213	
Houlton	HNME	Maine,U.S.A.	46.1599N	67.9867W	209	
Hourglass Bar Ranch, Mountainair	X23A	New Mexico,U.S.A.	34.5810N	106.1881W	1948	From 2008-04-19 to 2010-03-13
House Creek	GHCM	California,U.S.A.	38.6060N	123.1970W	518	From 1975-05-07
House Creek Ranch, Rogerson	L12A	Idaho,U.S.A.	42.1460N	115.0162W	1756	From 2006-12-21 to 2008-08-08
Houston	HOU	Texas,U.S.A.	29.7189N	95.4022W	5	
Houston	I39A	Minnesota,U.S.A.	43.8543N	91.5231W	393	From 2011-08-09 to 2013-06-05
Houston	Y46A	Mississippi,U.S.A.	33.8828N	88.8577W	109	From 2011-04-14 to 2013-02-06
Houston--Electro-Tech	HET	Texas,U.S.A.	29.7200N	95.4699W	6	From 1961-01-01 to 1965-04-30
Houston Renfrow, Canton	145A	Mississippi,U.S.A.	32.6035N	89.9287W	93	From 2011-03-25
Houvegnez	BHOU	Belgium	50.3537N	6.0051E	470	From 2012-08-02
Houxiangcun	PTMZ	Taiwan region	25.0400N	119.1200E	0	From 2011-07-22
Hovd	HBD	Mongolia	48.0100N	91.6500E	1410	
Hoven	G29A	South Dakota,U.S.A.	45.1926N	99.9234W	588	From 2009-09-10 to 2011-07-12
Howard	HD-PA	Pennsylvania,U.S.A.	40.9956N	77.5956W	369	From 1964-09-25 to 1965-01-25
Howard	HD-	Pennsylvania,U.S.A.	40.9956N	77.5956W	369	From 1964-09-25 to 1965-01-25
Howard City	J46A	Michigan,U.S.A.	43.3478N	85.6466W	275	From 2012-09-11
Howats Hill	BHH	Scotland,United Kingdom	55.0931N	3.2181W	216	
Howe Caverns	HCNY	New York,U.S.A.	42.6968N	74.3984W	273	
Howe Peak	HPI	Idaho,U.S.A.	43.7114N	113.0970W	2597	From 1972-10-01
Howes	H27A	South Dakota,U.S.A.	44.6329N	102.0775W	748	From 2009-06-10 to 2011-05-27
Howe Scarp	HWSI	Idaho,U.S.A.	43.9222N	113.1060W	1740	From 1992-01-01
Howrah	HOW	West Bengal,India	22.4167N	88.3092E	3	From 1952-01-01
Hoy	OHO	Orkney Islands,United Kingdom	58.8321N	3.2464W	172	From 1995-09-21
Hoyanger	HYA	Norway	61.1660N	6.1870E	30	From 1999-06-08

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Hoyt Mine	HYX	Nevada,U.S.A.	39.7728N	117.7630W	1661	From 1980-01-01
Hoyt Peak	HTU	Utah,U.S.A.	40.6753N	111.2200W	2575	From 1974-11-01
Hraun	IHRN	Iceland	66.1100N	20.1230W	15	From 1996-08-30
Hsiaoliuchiu	WLCT	Taiwan region	22.3480N	120.3620E	38	
Hsiaoliuchiu	TWP	Taiwan region	22.3460N	120.3625E	80	From 1978-01-02
Hsinchu	HSN	Taiwan region	24.8022N	120.9696E	34	
Hsinchu	SBCB	Taiwan region	24.7924N	120.9854E	126	From 2007-07-17
Hsinkong	SGK	Taiwan region	23.1000N	121.3670E	36	
Hsinkong	HSI	Taiwan region	23.1000N	121.3670E	36	
Hsinying	TWK	Taiwan region	23.2667N	120.4880E	590	From 1974-07-19
Huaiquique	TA02	Tarapacˆ¡	20.2705S	70.1311W	86	From 2014-02-24
Huajuapan	UTMO	Oaxaca,Mexico	17.8300N	97.8035W	1783	From 2003-11-18
Hualalai	HUH	Hawaii,U.S.A.	19.6847N	155.8357W	2193	From 1971-05-06
Hualan@16e@15	GO05	Maule,Chile	35.0098S	71.9297W	488	
Hualane	U65B	Maule,Chile	34.9642S	71.7886W	66	
Hualapai Mountain Park, Kingman	W13A	Arizona,U.S.A.	35.0990N	113.8854W	1988	From 2006-03-09 to 2010-05-28
Hualien Port	HWAP	Taiwan region	23.9800N	121.6200E	0	From 2001-08-27
Hualilan	HLN	San Juan,Argentina	30.7364S	68.9492W	2000	
Huancayo	HUA	Peru	12.0384S	75.3228W	3313	From 1932-04-01
Huanuco	HCO	Peru	9.8300S	76.2300W	1851	
Huara	HUAR	Chile	19.9320S	69.7261W	1135	From 2009-12-03
Huaraz	HUZ	Peru	9.5289S	77.5083W	3300	From 1972-01-01
Huarina	BS09	Bolivia	16.1890S	68.6120W	3858	From 2012-04-24
Huarmaca	HURP	Peru	5.5830S	78.4330W	2000	
Huasco	HUCH	Atacama,Chile	28.4641S	71.2215W	9	From 2005-04-19
Huatulco	HUIG	Oaxaca,Mexico	15.7684N	96.1082W	150	
Huaypira	CHP5	Peru	4.6050S	80.5011W	240	
Huckleberry Mountain	HBO	Oregon,U.S.A.	43.8443N	122.3200W	1615	From 1990-09-19
Huddart Park	JHPM	California,U.S.A.	37.4442N	122.3020W	347	
Huddler Ranch, Lake City	T32A	Kansas,U.S.A.	37.1797N	98.9247W	596	From 2009-10-12 to 2011-08-27
Hudiksvall	HUDU	Sweden	61.7364N	17.1194E	100	From 2005-10-15
Hudson	HUO	Ontario,Canada	50.0806N	92.0981W	367	From 1986-10-02
Hudson Bay High School ANSS-SMO	HUBA	Washington,U.S.A.	45.6307N	122.6526W	23	From 2002-09-12
Hue	HUV	Vietnam	16.4168N	107.5855E	8	
Hueftle Ranch, Cozad	N30A	Nebraska,U.S.A.	40.7957N	100.1001W	842	From 2009-05-21 to 2011-04-07
Huehuecho	HUES	El Salvador	13.7783N	89.0000W	910	From 1991-12-01
Huelma, Jaen	E025	Spain	37.7016N	3.4657W	1621	From 2007-06-22 to 2009-06-24
Huelva	EXHU	Spain	37.2740N	6.9310W	380	From 2008-06-01
Huescar	EHUE	Spain	37.8148N	2.5927W	980	From 1990-11-13
Huff	E28A	North Dakota,U.S.A.	46.5748N	100.6934W	579	From 2009-08-18 to 2011-06-06
Hugo	Y37A	Oklahoma,U.S.A.	33.9789N	95.6210W	165	From 2010-04-27 to 2012-01-30
Hugo	Q26A	Colorado,U.S.A.	38.9234N	103.5195W	1546	From 2008-12-04 to 2010-10-17
Hugoton	T29A	Kansas,U.S.A.	37.1565N	101.2942W	936	From 2009-04-08 to 2011-03-13
Hu-ho-hao-te	HHC	Nei Monggol Zizhiqu,China	40.8494N	111.5640E	1169	
Huhtala Lane, Santa Cruz County	JHUM	California,U.S.A.	37.2147N	122.1717W	234	From 2000-09-15
Huinay	HUNY	Chile	42.3790S	72.4143W	20	
Huiting Farm, Downs	P32A	Kansas,U.S.A.	39.6223N	98.6011W	524	From 2009-09-19 to 2011-08-23
Huitzitzil	HUG	Guatemala	14.0208N	91.3235W		From 1987-10-01
Huka	HUTZ	North Island,New Zealand	38.6319S	176.0944E	300	From 1985-09-26 to 1992-10-31
Hulbert	V37A	Oklahoma,U.S.A.	35.8830N	95.1410W	219	From 2010-06-11 to 2012-02-17
Hull Mountain	GHMM	California,U.S.A.	39.4954N	122.9310W	1456	
Hull Mountain	HUMO	Oregon,U.S.A.	42.6071N	122.9567W	554	From 2002-06-18
Humahuaca	HJA	Jujuy,Argentina	23.2078S	65.4095W	3170	
Humberstone	HMBC	Tarapaca,Chile	20.2782S	69.8879W	1152	
Humbligny	HYF	Centre,France	47.2685N	2.6394E	428	
Humboldt	X15A	Arizona,U.S.A.	34.4866N	112.2368W	1331	From 2006-03-22 to 2008-11-06
Humboldt	O35A	Nebraska,U.S.A.	40.2665N	95.9097W	342	From 2010-05-16 to 2012-04-21
Humboldt	V45A	Tennessee,U.S.A.	35.7403N	88.9591W	126	From 2011-05-15 to 2013-03-16
Hume Dam	HUMM	Victoria,Australia	36.1110S	147.0290E	190	
Humele	HUMR	Romania	44.5281N	24.9804E	247	From 2008-08-29
Humming Bird West	HBW	California,U.S.A.	38.8585N	122.8757W	985	
Humu'ula Sheep Station	HMH	North America,U.S.A.	19.6027N	155.4830W	2465	
Hundersingen	HUN	Baden-Wurttemberg,Germany	48.0792N	9.4083E	565	
Hundred Mile H.	HM-	British Columbia,Canada	51.6550N	121.4756W	1128	From 1962-07-26 to 1962-10-05
Hungry Hill Ranch, Wilson	Z29A	Texas,U.S.A.	33.2595N	101.7062W	938	From 2009-01-29 to 2010-12-04
Hungry Horse	HHM	Montana,U.S.A.	48.3494N	114.0280W	1100	From 1947-11-10 to 1979-12-16
Hungye	EHY	Taiwan region	23.5060N	121.3220E	237	
Hunish Island	HNSH	Yemen	13.6935N	42.7147E	80	From 2007-11-27
Hunter Liggett MR Jolon	V03C	California,U.S.A.	36.0214N	121.2356W	336	From 2005-02-23 to 2007-12-05
Hunter Patterson, Mansfield	240A	Louisiana,U.S.A.	32.0387N	93.7626W	119	From 2011-02-11 to 2012-12-01
Huntington	339A	Texas,U.S.A.	31.3331N	94.5560W	82	From 2010-02-18 to 2011-12-10
Huntoon Valley	HCK	Nevada,U.S.A.	38.0755N	118.5920W		
Huntoon Valley	HVL	Nevada,U.S.A.	39.1832N	118.5390W	1856	
Huntsville	M16A	Utah,U.S.A.	41.3146N	111.6298W	1872	From 2007-07-09 to 2009-04-21
Hunxe	BHXE	Nordrhein-Westfalen,Germany	51.6308N	6.8929E	159	
Hurbanovo	HRB	Slovakia	47.8736N	18.1928E	115	
Huron Fishing Bridge	PHBM	California,U.S.A.	36.2488N	120.0830W	100	
Hurricane	R53A	West Virginia,U.S.A.	38.3307N	81.9513W	294	From 2013-01-13
Hurricane	HHS	Utah,U.S.A.	37.1738N	113.2957W	987	From 2008-05-15
Hurricane	HUR	Alaska,U.S.A.	62.9778N	149.6360W	505	From 1971-08-01
Hurricane	T14A	Utah,U.S.A.	37.0615N	113.0840W	1529	From 2007-01-28 to 2008-10-10
Hurricane Hollow	HHT	Tennessee,U.S.A.	36.1711N	87.9014W	113	
Hurst Farm, Blanding	S18A	Utah,U.S.A.	37.6903N	109.9948W	2351	From 2007-06-25 to 2009-06-18
Hurt	T57A	Virginia,U.S.A.	36.9983N	79.2538W	230	From 2013-03-17
Husband	HUOR	Oregon,U.S.A.	44.1197N	121.8482W	2037	
Husbondi	IHUS	Iceland	64.2955N	17.6565W	1314	From 2013-06-06
Huson	D13A	Montana,U.S.A.	47.0943N	114.4587W	1000	From 2006-10-06 to 2009-07-17
Husum	HUSU	Sweden	63.3416N	19.2184E	100	From 2000-08-23
Huta Ginjang	HUTI	Sumatera,Indonesia	2.3153N	98.9711E	1600	
Hutbay	HUTB	Andaman Islands,India	10.3512N	92.3232E	22	From 2012-01-01
Hutch Mountain	HTCH	Arizona,U.S.A.	34.8060N	111.3940W	2559	
Huxley Gorge	HGP	South Island,New Zealand	44.1008S	169.8443E	590	From 1975-06-18 to 1983-11-21
Huzimizaka	HZA	Nagano,Japan	36.3992N	138.5411E	2232	
Hvannstoosfjoll	IHVA	Iceland	64.9550N	15.8690W	695	From 2004-12-29
Hvar	HVAR	Croatia	43.1780N	16.4490E	189	From 1986-10-01
Hveravellir	IHVE	Iceland	64.8700N	19.5670W	640	From 1996-08-30
Hwacheon	HWCB	Republic of Korea	38.2214N	127.6707E	292	From 2010-11-17
Hwalien	HWA	Taiwan region	23.9770N	121.6050E	16	
Hwange	HWZ	Zimbabwe	18.3302S	26.5034E	0	
Hwaseong-si	HAWB	Republic of Korea	37.0844N	126.7740E	48	From 2012-12-24
Hyde County Airport	V62A	North Carolina,U.S.A.	35.5612N	75.9570W	-3	
Hyde Park	HDU	Utah,U.S.A.	41.8044N	111.7650W	1853	From 1975-03-01
Hyderabad	HYD	Andhra Pradesh,India	17.4333N	78.4500E	528	
Hyderabad	HYB	Andhra Pradesh,India	17.4169N	78.5531E	510	From 1967-12-11
Hyderabad (broadband)	HYBB	Andhra Pradesh,India	17.4187N	78.5520E	522	From 2008-09-15
Hydra	YDRA	Greece	37.3495N	23.4653E	19	From 2011-10-24
Hylton High School	PPHYL	District of Columbia,U.S.A.	38.6500N	77.3800W	112	
Hysham	HY-	Montana,U.S.A.	45.9728N	107.0817W	975	From 1964-11-30 to 1965-09-19
Hysham	HY-MA	Montana,U.S.A.	45.9728N	107.0817W	975	From 1964-11-30 to 1965-09-19
Hyugahichiya	JHHC	Miyazaki,Japan	32.4432N	131.6368E	53	From 2012-07-01
HZTE	HZTE	Costa Rica	10.7137N	85.5954W	194	
I19DJ	I19DJ	Djibouti	11.4740N	43.1731E	21	From 2011-10-05
I37NO	I37NO	Norway	69.0741N	18.6076E	73	From 2013-12-17
Iasi	IAS	Romania	47.1933N	27.5617E	160	From 1951-12-10
Ibague, SGC	CIBA1	Colombia	4.4470N	75.2350W	1284	From 1995-06-26
Ibarra	IBAR	Ecuador	0.2871N	78.1065W	2360	
Ibarra (Universidad Catˆ‡lica)	AIB2	Ecuador	0.3428N	78.1042W	2225	From 2012-03-23
Ibbenbueren East	IBBE	Nordrhein-Westfalen,Germany	52.2998N	7.7943E	141	From 2005-12-01
Ibbenbueren South	IBBS	Nordrhein-Westfalen,Germany	52.2843N	7.7486E	169	From 2005-12-01
Ibbenburen	IBBN	Nordrhein-Westfalen,Germany	52.3072N	7.7566E	137	
Ibiza	EIBI	Balearic Islands,Spain	39.0269N	1.3436E	260	
Ibuki Yama	IBU	Shiga,Japan	35.3783N	136.3770E	30	
Iburiatsuma	JIAM	Iburi,Japan	42.6227N	141.9205E	12	From 2012-11-01
Ica	ICA	Peru	14.0750S	75.7250W	500	
Ice Cap	IC-GL	Greenland	77.9467N	39.1833W	2365	From 1966-07-06 to 1967-08-28
Ice Cap	IC-	Greenland	77.9467N	39.1833W	2365	From 1966-07-06 to 1967-08-28
Icelocation 2	IS2	Greenland	69.1660N	44.7357W	2220	
Icheon	KSICN	Republic of Korea	37.2907N	127.4167E	164	From 2003-11-28
Ichihara	ICH	Chiba,Japan	35.4009N	140.1768E	-146	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Ichinomiya	INMK	Tokushima,Japan	34.0284N	134.4663E	50	
Ichinomiyachiaki	JICN	Aichi,Japan	35.3020N	136.8430E	10	From 2012-11-01
Ichinoseki	JMK	Iwate,Japan	38.9518N	141.2198E	70	
Ichiyama	ICY	Yamanashi,Japan	34.9033N	138.9333E	210	
Icod de los Vinos	CICO	Canary Islands,Spain	28.3490N	16.7241W	785	From 2004-05-13
Idabel	Y38A	Oklahoma,U.S.A.	33.9278N	94.7311W	118	From 2010-04-28 to 2012-01-28
Idaho Array	IDA	Idaho,U.S.A.	43.7867N	113.0220W	1524	
Idaho Array 1	ID1	Idaho,U.S.A.	43.6200N	113.3280W	1638	
Idaho Array 2	ID2	Idaho,U.S.A.	43.5283N	112.8370W	1521	
Idaho Array 3	ID3	Idaho,U.S.A.	43.8575N	112.7080W	1460	
Idaho Array 4	ID4	Idaho,U.S.A.	43.7250N	112.7970W	1478	
Idaho Array 5	ID5	Idaho,U.S.A.	43.8983N	113.6160W	1829	
Idaho Springs	ISCO	Colorado,U.S.A.	39.7997N	105.6134W	2743	From 1996-10-17
Ideyld Park	J03A	Oregon,U.S.A.	43.3717N	122.9646W	292	From 2005-12-15 to 2007-10-31
Idfu	HEDF	Egypt	25.0945N	33.1818E	190	
Idjevan	IDJZ	Armenia	40.8820N	45.1460E	700	
Idriss Premier	IDR	Morocco	34.1660N	4.7500W	217	From 1979-06-01
Iengra	IENR	Sakha,Russia	56.2238N	124.8571E	860	From 2004-07-10
Iera Moni Metamorfosis, Varipetro, Chania, Crete	IMMV	Crete,Greece	35.4606N	23.9811E	230	From 2010-07-16
Ierapetra Chania	FRMA	Crete,Greece	35.0144N	25.7334E	33	From 2006-12-01
Ifrane	IFR	Morocco	33.5169N	5.1269W	1630	From 1964-11-01
Igarata	IGAB	Sao Paulo,Brazil	23.2525S	46.1165W	677	
IGDIR	IGDI	Turkey	39.8681N	44.0780E	860	From 2012-01-23
Iggoen	IGGU	Sweden	60.8730N	17.3160E	100	From 2000-03-27
Igitkin Island	GSIG	Alaska,U.S.A.	51.9864N	175.9250W	407	
Igloolik	IGL	Northwest Territories,Canada	69.3767N	81.8067W	38	From 1975-09-03
Igloolik	IGLN	Northwest Territories,Canada	69.3689N	81.8175W	43	
Igloolik, Nunavut	ILON	Northwest Territories,Canada	69.3712N	81.8242W	51	From 2005-08-23
Ignalina	IIGN	Lithuania	55.3503N	26.2225E	225	
Ignalina Nuclear	INPP	Lithuania	55.6056N	26.5667E	148	
Igoumenitsa	IGT	Greece	39.5325N	20.3325E	320	From 1989-04-01
Igron	IGR	Tajikistan	38.3000N	69.3000E	0	
IGS Nastaetten	NAST	Rheinland-Pfalz	50.1951N	7.8608E	290	From 2014-10-01
Iguala	III	Guerrero,Mexico	18.3760N	99.4680W	1740	
Igualata	IGUA	Ecuador	1.4900S	78.6387W	4430	
Iheya	JIH	Ryukyu Islands,Japan	27.0348N	127.9670E	25	
Iida	IJDJ	Nagano,Japan	35.4800N	137.9120E	528	From 1978-03-01
Iida	IID	Nagano,Japan	35.5100N	137.8367E	484	
Iida	IIDJ	Nagano,Japan	35.4800N	137.9120E	528	From 1978-03-01
Iinan	INA	Mie,Japan	34.4463N	136.3750E	160	From 1965-07-01 to 1970-07-31
IISEE	IIS	Tokyo,Japan	35.7097N	139.6970E	25	
Iizuka	IZK	Fukuoka,Japan	33.6500N	130.7000E		
Iizume	IZMH	Aomori,Japan	40.8338N	140.4985E	30	
Ikemajima	JIKM	Ryukyu Islands,Japan	24.9237N	125.2477E	11	From 2010-02-01
Iki	JII	Nagasaki,Japan	33.7955N	129.7320E	70	
Ikuma	JNM	Shimane,Japan	35.4958N	133.0297E	20	
Ikusaka	IKJ	Nagano,Japan	36.4218N	137.9440E	500	From 1968-07-01 to 1970-03-15
Ilam	ILAN	Nepal	26.9102N	87.9227E	1181	From 2001-10-17 to 2002-10-30
Ilan	ILA	Taiwan region	24.7656N	121.7479E	7	From 1936-01-01
Ilan	YLA	Taiwan region	24.7656N	121.7480E	7	From 1936-01-01
Ile d'Oleron	OLEF	Poitou-Charentes,France	45.9445N	1.3488W	3	From 1994-12-06
Ile-Ife	OAUI	Togo	7.5230N	4.5219E	257	From 2007-11-01
Ilet Lapin Martinique	ILAM	Martinique,France	14.7747N	60.8736W	34	From 2012-10-01
Ilgaz	ILGA	Turkey	41.0521N	33.7165E	2069	From 2007-07-02
Ili	ILI	Kazakhstan	43.8600N	77.0320E	540	
Iliamna	ILIM	Alaska,U.S.A.	60.0802N	152.9590W	823	
Iliamna	ILM	Alaska,U.S.A.	60.1820N	152.8160W	550	From 1971-08-07
Iliamna Low South	ILS	Alaska,U.S.A.	59.9576N	153.0681W	1125	
Iliamna NE	INE	Alaska,U.S.A.	60.0608N	153.0620W	1585	From 1990-08-29
Iliamna NW	INW	Alaska,U.S.A.	60.0677N	153.1325W	1219	From 1990-08-29 to 1994-12-31
Iliamna South	IVS	Alaska,U.S.A.	60.0092N	153.0810W	2332	From 1990-08-29
Iliamna Volcano East	IVE	Alaska,U.S.A.	60.0169N	153.0163W	1173	From 1996-01-01
Iliamna West	ILW	Alaska,U.S.A.	60.0600N	153.1360W	1722	From 1994-10-01
ilic-Erzincan	ILIC	Turkey	39.4520N	38.5678E	1280	From 2008-12-25
Illapel	ILCH	Coquimbo,Chile	31.6358S	71.1694W	350	
Illinizas Sur - Rasayacu	ILLI	Ecuador	0.7146S	78.7279W	3830	From 2011-10-21
Iloca	ILOC	Maule,Chile	34.9350S	72.1828W	7	
Iloilo	ILO	Panay,Philippines	10.7000N	122.5670E		
I.L. Ranch, Tuscararo	M10A	Nevada,U.S.A.	41.5220N	116.5396W	1687	From 2006-05-05 to 2008-08-18
Ilulissat	ILULI	Greenland	69.2121N	51.1048W	53	From 2009-07-14
Ilulissat, Greenland	ILUG	Greenland	69.2170N	51.1080W	45	From 2004-05-14
Ilw as Safayhah	ALWS	Saudi Arabia	29.3103N	35.0650E		
Imadeyama	IMAT	Iwate,Japan	39.1067N	141.7600E	519	
Imagane	IMG	Hiyama,Japan	42.3905N	140.1444E	90	
Imajo	IMJ	Fukui,Japan	35.7982N	136.3028E	240	
Imangra	IMNS	Amurskaya Oblast',Russia	56.6200N	120.7100E	540	From 1975-01-01 to 1979-12-31
Imbabura, San Roque	IMBA	Ecuador	0.2764N	78.1991W	3404	From 2011-10-24
Imerovigli	THT2	Crete,Greece	36.4351N	25.4218E	338	From 2011-11-05
Imi Mikki	IMK	Morocco	30.5239N	9.6517W	60	From 1991-12-17
Immerath	BD13	Nordrhein-Westfalen,Germany	51.0487N	6.4339E	96	From 2007-02-01
Imola, Italy	IMOL	Italy	44.3595N	11.7425E	-148	From 2010-08-10
Imperia	IMI	Italy	43.9105N	7.8932E	840	From 1983-01-01
Imperial Boulder Park, Ocotillo	IBP	California,U.S.A.	32.6611N	116.0929W	879	From 2010-04-06 to 2011-04-13
Imphal	IMP	Manipur,India	24.8311N	93.9466E	792	
Imsbach	IMS	Rheinland-Pfalz,Germany	49.5940N	7.9008E	350	
Imsil	KSIMS	Republic of Korea	35.6055N	127.2859E	246	From 2000-12-06
Imwonan-gil	IMWB	Republic of Korea	37.2380N	129.3419E	54	From 2012-12-23
In Amguel	IAA	Algeria	23.8222N	5.1750E		
INCERC-Sediu Central	INCR	Romania	44.4410N	26.1611E	88	From 2008-02-20
Inchbonnie	INZ	South Island,New Zealand	42.7245S	171.4441E	165	From 2011-01-26
Incheon	KSINC	Republic of Korea	37.4776N	126.6240E	68	
Inch Island, Co Donegal	IDGL	Ireland	55.0730N	7.5100W	122	
Inchon	INC	Republic of Korea	37.4833N	126.6330E	70	
Inchon	INCN	Republic of Korea	37.4830N	126.6330E	420	
Incio	EINC	Spain	42.6600N	7.3500W	739	
Independence	IND	California,U.S.A.	39.4343N	120.2920W	2146	
Independ'e Ridge	RIDG	Alaska,U.S.A.	63.7407N	144.8417W	888	
India	UMI	India	25.5167N	92.7333E		
Indiana Array	IN4	Indiana,U.S.A.	39.5697N	84.9029W		From 1980-01-01 to 1996-12-31
Indiana Array	IN3	Indiana,U.S.A.	39.2653N	85.7854W		From 1980-01-01 to 1996-12-31
Indiana Array	IN2	Indiana,U.S.A.	39.9390N	86.7831W		From 1980-01-01 to 1996-12-31
Indiana Array	IN1	Indiana,U.S.A.	40.5420N	85.8936W		From 1980-01-01 to 1996-12-31
Indiana State University	ISU	Indiana,U.S.A.	39.4714N	87.4075W	148	
Indian Gallows	SVG	St Vincent,Saint Vincent and the Grenadines	13.2450N	61.2780W	46	
Indian Hill Lake	IHLN	Northwest Territories,Canada	63.3052N	110.8911W	417	
Indian Lake	ILKN	Yukon Territory,Canada	64.2241N	115.1293W	266	
Indian Meadow	IMW	Wyoming,U.S.A.	43.8970N	110.9390W	2646	
Indian Mountain	IMA2	Alaska,U.S.A.	66.0688N	153.6871W	1318	
Indian Mountain	IMA	Alaska,U.S.A.	66.0685N	153.6790W	1380	
Indian Mountain Array Beam Reference Point	IMAR	Alaska,U.S.A.	65.9835N	153.7491W	372	
Indian Mountain Array Site 1	IM01	Alaska,U.S.A.	65.9969N	153.7225W	360	
Indian Mountain Array Site 2	IM02	Alaska,U.S.A.	66.0005N	153.7971W	645	
Indian Mountain Array Site 3	IM3	Alaska,U.S.A.	65.9835N	153.7490W	372	From 1993-07-01
Indian Mountain Array Site 4	IM04	Alaska,U.S.A.	65.9745N	153.7828W	587	
Indian Mountain Array Site 5	IM05	Alaska,U.S.A.	65.9751N	153.7253W	450	
Indianola	INDN	Nebraska,U.S.A.	40.1925N	100.4000W	762	
Indian Ridge	IRO	Oregon,U.S.A.	44.0053N	122.2543W	1642	
Indian Springs Canyon	ICU	Utah,U.S.A.	37.1497N	113.9235W	1451	
Indiantown	060A	Florida,U.S.A.	27.0361N	80.3618W	9	From 2012-03-15
Indian Trail	W56A	North Carolina,U.S.A.	35.1350N	80.5828W	177	From 2013-03-08
Indian Valley	PIVM	California,U.S.A.	35.9065N	120.6820W	497	From 1975-09-24
Indio Hills	INDC	California,U.S.A.	33.8162N	116.2300W	354	
Indio Mountain, Van Horn	425A	Texas,U.S.A.	30.7862N	104.9857W	1337	From 2008-03-15 to 2010-02-06
INEL Research	IRCI	Idaho,U.S.A.	43.5153N	112.0333W	1442	From 1990-03-15
Infanta	INF	Luzon,Philippines	14.7500N	121.6467E	5	
Ingas	INGI	Bali,Indonesia	8.8183S	115.1450E	202	
Inge Lehmann	ILG	Greenland	77.9467N	39.1833W	2401	
Ingelmoor High School	NIHS	Washington,U.S.A.	47.7413N	122.2226W	137	From 2002-06-04
Ingram Canyon, Westley	S04C	California,U.S.A.	37.5049N	121.3278W	310	From 2004-12-20 to 2007-09-03

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Ingram Point	VIPM	Oregon,U.S.A.	44.5082N	120.6190W	1731	
Ingram Ranch	ING	California,U.S.A.	32.9883N	115.3100W	2	From 1973-04-16 to 2010-04-28
INJE	KSIJA	Republic of Korea	37.9867N	128.1111E	224	From 2006-12-30
Ink	IK-AR	Arkansas,U.S.A.	34.6194N	94.1025W	305	From 1962-11-10 to 1962-12-13
Ink	IK-	Arkansas,U.S.A.	34.6194N	94.1025W	305	From 1962-11-10 to 1962-12-13
In-Ko-Pah, Jacumba	IKP	California,U.S.A.	32.6501N	116.1095W	906	From 1972-11-08 to 2010-04-28
Innaminka	INKA	South Australia,Australia	27.7410S	140.7456E	75	From 2013-07-17
Innsbruck	INN	Austria	47.2667N	11.4000E	575	
Innsbruck	IBK	Austria	47.2606N	11.3847E	580	From 1973-03-01
Inspiration	INS	California,U.S.A.	33.9356N	116.1940W	1700	From 1974-04-01 to 2010-04-28
Institut Agronomique	IAG	Guadeloupe,France	16.0840N	61.6000W	250	
Institut de recherche pour le d˜veloppement - Quito	IRDE	Ecuador	0.1972S	78.4810W	2810	
Institute	INSR	Kamchatskaya Oblast',Russia	53.0661N	158.6050E	175	
Institute of Geosciences in Tirana	TIR1	Albania	41.3357N	19.8078E	150	From 2014-01-15
Instituto de Ingenieria, UNAM	IIM	Mexico D.F.,Mexico	19.3260N	99.1820W	2275	
Instituto de Meteorologia, Lisbon	INMG	Portugal	38.7743N	9.1257W	93	From 1993-02-01
Instituto Hidrografico de la Armada	IHA	Valparaiso,Chile	33.0258S	71.6411W	88	From 1988-01-01
Interlachen	657A	Florida,U.S.A.	29.5852N	81.8665W	34	From 2012-02-08
Interlaken, Schloss	SINS	Switzerland	46.6869N	7.8642E	568	From 2012-10-01
InterUniversity Guayama PR	IGPR	Puerto Rico	17.9654N	66.1068W	24	From 2012-09-01
Intevep	INTV	Venezuela	10.3878N	67.0514W	1594	From 2004-01-23
Introdacqua	INTR	Italy	42.0115N	13.9046E	924	From 2003-08-29
Inubo	INB	Chiba,Japan	35.7031N	140.8603E	32	
Inukjuak	INUQ	Quebec,Canada	58.4509N	78.1186W	12	From 2006-09-12
Inuvik	INK	Northwest Territories,Canada	68.3070N	133.5200W	40	From 1969-02-22
Inuyama	INU	Aichi,Japan	35.3488N	137.0170E	140	From 1966-06-01
Inveralochy	INV	New South Wales,Australia	34.9650S	149.6670E	650	From 1959-01-01 to 1983-06-14
Inveralochy	IVN	New South Wales,Australia	34.9667S	149.6670E	650	From 1972-08-09 to 1983-06-14
Inveralochy	IVY	New South Wales,Australia	34.9722S	149.7180E	650	From 1983-06-14
Invergeldie, Comrie	INVG	Scotland,United Kingdom	56.4273N	4.0452W	279	From 2010-07-10
Inverness	IVSM	Victoria,Australia	36.1338S	147.0681E	330	
Invillino	FINV	Italy	46.4050N	12.9400E	359	From 2001-05-05
Iona Station	K51A	Ontario,Canada	42.7223N	81.5082W	217	From 2012-12-07
Ion Corvin	ICOR	Romania	44.1168N	27.8009E	121	From 2011-10-12
Ione	IO-NV	Nevada,U.S.A.	38.5258N	117.6389W	1737	
Ione	IO-	Nevada,U.S.A.	38.5258N	117.6389W	1737	
Ios island	IOSP	Greece	36.7233N	25.2890E	226	From 2012-03-07
Ipameri, GO	IPMB	Goias,Brazil	17.9830S	48.2117W	706	From 2012-10-26
Ipanguacu	IPA	Rio Grande do Norte,Brazil	5.6958S	36.8561W	65	From 1987-08-01
Ipeti	IPE	Panama	8.9772N	78.4933W	50	
Ipil	IPIL	Mindanao,Philippines	7.7880N	122.5710E	50	
Ipitacuapi	ITIT	Bolivia	20.2538S	63.1618W	823	From 1994-05-30 to 1995-08-08
IPOC Station PB01	PB01	Tarapaca,Chile	21.0432S	69.4874W	900	From 2006-02-21
IPOC Station PB02	PB02	Tarapaca,Chile	21.3197S	69.8960W	1015	From 2006-05-06
IPOC Station PB03	PB03	Antofagasta,Chile	22.0485S	69.7531W	1460	From 2006-05-19
IPOC Station PB04	PB04	Antofagasta,Chile	22.3337S	70.1492W	1530	From 2006-05-17
IPOC Station PB05	PB05	Chile	22.8528S	70.2023W	1150	From 2006-05-18
IPOC Station PB06	PB06	Antofagasta,Chile	22.7058S	69.5719W	1440	From 2007-03-04
IPOC Station PB07	PB07	Antofagasta,Chile	21.7267S	69.8862W	1560	From 2007-02-27
IPOC Station PB08	PB08	Tarapaca,Chile	20.1411S	69.1534W	3070	From 2007-03-01
IPOC Station PB09	PB09	Antofagasta,Chile	21.7964S	69.2419W	1530	From 2008-02-06
IPOC Station PB10	PB10	Antofagasta,Chile	23.5134S	70.5541W	250	From 2008-02-03
IPOC Station PB11	PB11	Tarapaca,Chile	19.7610S	69.6558W	1410	From 2008-12-05
IPOC Station PB12	PB12	Chile	18.6141S	70.3281W	908	From 2010-12-04
IPOC Station PB13	PB13	Chile	18.3359S	69.5016W	4730	From 2009-11-19 to 2011-10-30
IPOC Station PB14	PB14	Chile	24.6260S	70.4038W	2620	From 2009-07-10
IPOC Station PB15	PB15	Chile	23.2083S	69.4709W	1830	From 2011-04-17
IPOC Station PB16	PB16	Chile	18.3351S	69.5077W	4480	From 2011-11-03
Ipoh	IPM	Peninsular Malaysia,Malaysia	4.4795N	101.0255E	247	From 1979-05-26
Ipv	AIPV	Salta,Argentina	24.7874S	65.4197W	1180	From 2005-08-23
Iquique	ICC	Tarapaca,Chile	20.2840S	70.0350W	950	
Iquique	IQQ	Tarapaca,Chile	20.2408S	70.1278W		From 1976-01-01
Ira	IVT	Vermont,U.S.A.	43.5221N	73.0533W	295	
Irabujima	JIRB	Ryukyu Islands,Japan	24.8282N	125.1728E	19	From 2010-02-01
Iran Long-Period Array	IR4	Iran	35.2387N	50.9012E	1373	From 1976-01-01
Iran Long-Period Array	IR6	Iran	35.4737N	50.4256E	1540	From 1976-01-01
Iran Long-Period Array	IR2	Iran	35.6628N	50.8976E	1172	From 1976-01-01
Iran Long-Period Array	IR7	Iran	35.7028N	50.6089E	1305	From 1976-01-01
Iran Long-Period Array	IR5	Iran	35.2128N	50.5811E	1385	From 1976-01-01
Iran Long-Period Array	IR3	Iran	35.4761N	51.0238E	989	From 1976-01-01
Iran Long-Period Array	IR1	Iran	35.4160N	50.6890E	1347	From 1976-01-01
Iranshahr	IRSH	Iran	27.2000N	60.7000E	0	
Irapuato, Guanajuato	IGIG	Guanajuato,Mexico	20.7531N	101.3278W	1809	
Irene McRaven, Queen City	Z39A	Texas,U.S.A.	33.2418N	94.1822W	112	From 2010-04-27 to 2012-01-24
Irimote jima	IRI	Ryukyu Islands,Japan	24.3857N	123.7493E	9	From 1991-03-01
Iringa	IRIN	Tanzania,United Republic of Tanzania	7.7620S	35.6865E	1577	
Iriomote-Funauki	IRIF	Ryukyu Islands,Japan	24.3348N	123.7300E	5	From 2004-03-04
Iris	IRS	California,U.S.A.	33.1908N	115.4290W	-10	
IRIS PASSCAL Instrument Center, Socorro	Y22D	New Mexico,U.S.A.	34.0739N	106.9210W	1436	From 2007-09-29
IRIS PASSCAL Instrument Center, Socorro	Y22E	New Mexico,U.S.A.	34.0742N	106.9208W	1444	From 2011-03-28 to 2012-08-06
IRIS PASSCAL Instrument Center, Socorro	Y22C	New Mexico,U.S.A.	34.0741N	106.9211W	1436	From 2004-05-07 to 2007-09-28
Irkutsk	IRK	Irkutskaya Oblast',Russia	52.2431N	104.2711E	467	
Iron Bridge	E47A	Ontario,Canada	46.4547N	83.2777W	246	From 2012-11-09
Iron Canyon	IR2C	California,U.S.A.	34.3881N	118.3997W	562	
Iron Canyon	IRC	California,U.S.A.	34.3885N	118.4030W	533	From 1971-11-01 to 2010-04-28
Iron Mountain	NIMB	California,U.S.A.	38.5614N	122.2654W	550	
Iron Mountain	IMU	Utah,U.S.A.	38.6331N	113.1580W	1832	From 1988-09-29
Iron Mountain Pumping Sta,Desert Center	IRM	California,U.S.A.	34.1574N	115.1451W	567	From 2001-12-05
Iron Mountains	IRN	California,U.S.A.	34.1600N	115.1840W	980	
Iron Peak	KIPM	California,U.S.A.	39.8087N	123.4810W	1367	
Isaakyan	ISKY	Armenia	40.6000N	43.7000E	1435	
Isabella, Hillsboro	R34A	Kansas,U.S.A.	38.3008N	97.2470W	437	From 2010-05-17 to 2012-03-15
Isabella, Lake Isabella	ISA	California,U.S.A.	35.6628N	118.4740W	873	From 1946-03-16
Isangel	INH	Vanuatu	19.5472S	169.2730E	110	From 1970-06-10
Isanotski	ISTK	Alaska,U.S.A.	54.7321N	163.7063W	704	
Isanotski Lazaref River	ISLZ	Aleutian Islands, Alaska,U.S.A.	54.7260N	163.7110W	631	From 2009-01-01
Isanotski North	ISNN	Alaska,U.S.A.	54.8323N	163.7784W	466	
Ischia Osservatorio Casamicciola	IOCA	Italy	40.7468N	13.9014E	110	From 2011-02-09
Ise	ISE	Mie,Japan	34.4585N	136.7740E	440	From 1963-10-01
Ise	JIE	Mie,Japan	34.3917N	136.7067E	135	
Isfjord	ISF	Svalbard,Norway	78.0592N	13.6403E	5	
Ishigaki jima	ISI	Ryukyu Islands,Japan	24.3317N	124.1633E	6	
Ishigaki jima 2	JIJ	Ryukyu Islands,Japan	24.3635N	124.1428E	78	
Ishigakijimahirakubo	JISG	Ryukyu Islands,Japan	24.5870N	124.3107E	13	From 2010-02-01
Ishigaki Ryukyu Islands	ISHJ	Ryukyu Islands,Japan	24.3800N	124.2300E	50	
Ishihara	IHR	Kochi,Japan	33.6879N	133.4710E	510	From 1967-04-01 to 1999-08-25
Ishii	ISIK	Tokushima,Japan	34.0573N	134.4581E	27	
Ishikarishitsubu	JISS	Ishikari,Japan	43.2753N	141.4175E	60	From 2012-11-01
Ishinomaki	ISN	Miyagi,Japan	38.4250N	141.3030E	44	
Ishinomakikobuchihama	JIKH	Miyagi,Japan	38.3107N	141.4655E	58	From 2012-11-01
Ishipane	K05	Iwate,Japan	39.3822N	141.5139E	463	
Ishtion	ISH	Tajikistan	38.8333N	70.7833E	1880	
Isikli	IKL	Turkey	36.2386N	33.6853E	120	From 1988-01-01
Iskenderun	COBT	Turkey	36.5197N	36.2556E	1710	From 1994-02-17
Isla Aves	IAV	Venezuela	15.7000N	63.6000W	0	
Isla Barro Colorado	BCIP	Panama	9.1665N	79.8373W	61	
Isla Caja de Muertos, Puerto Rico	ICMP	Puerto Rico	17.8863N	66.5267W	9	From 2009-10-01
Isla Caja Muertos	ICM	Puerto Rico	17.8934N	66.5210W	7	
Isla de Alboran	ALR	Spain	35.9392N	3.0350W	10	From 1978-10-01 to 1999-08-25
Isla de Gorgona	GRGC	Colombia	3.0028N	78.1672W	64	From 2010-08-29
Isla de la Plata	ISPT	Ecuador	1.2621S	81.0736W	190	From 2008-12-18
Isla del Cano	IDC	Costa Rica	8.7133N	83.8698W	10	From 1987-01-01
Isla del Coco	ICO	Costa Rica	5.5461N	87.0555W	25	
Isla de Pascua	PSC	Easter Island,Chile	27.1583S	109.4340W	50	From 1965-08-01 to 1999-08-25
Isla de Pascua	VA02	Valpara˜so	27.1603S	109.4347W	49	From 2013-08-14
Isla de Providencia	PRVC	Colombia	13.3762N	81.3635W	63	From 2012-06-01
Isla Desecheo	IDE	Puerto Rico	18.3864N	67.4741W	203	From 1977-02-15
Isla Fernandina	FERN	Galapagos,Ecuador	0.2667S	91.4450W	3	
Isla Gorgona, Cauca	CGR1C	Colombia	3.0028N	76.1669W	46	From 2013-12-04

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Isla Guadalupe	IGM	Baja California,Mexico	28.8842N	118.2917W	65	
Isla Isabel II, Islas Chafarinas	CHAS	Morocco	35.1835N	2.4309W	86	From 2007-11-07 to 2009-04-12
Isla La Blanquilla	IBAV	Venezuela	11.8230N	64.5770W	100	From 2002-07-06
Isla La Orchila	ORCV	Venezuela	11.8120N	66.1940W	22	From 2003-01-15
Isla Las Cabras	ILCA	Chile	42.0606S	72.5367W	15	
Isla Los Monjes	IMOV	Venezuela	12.3590N	70.9020W	67	From 2003-10-10
Isla Los Testigos	ITEV	Venezuela	11.3550N	63.1320W	13	From 2002-07-10
Islamabad	ISBA	Pakistan	33.7000N	73.1000E	626	From 2010-11-28
Isla Mocha	BI04	Bio-Bio	38.4120S	71.6473W	26	From 2013-08-25
Isla Mona	IMR	Puerto Rico	18.0884N	67.8463W	55	From 1975-11-14 to 1977-01-10
Isla Mona	IMOB	Puerto Rico	18.0500N	67.8700W	93	
Isla Mona	IMO	Puerto Rico	18.1095N	67.9081W	3	From 1977-02-15
Island Lagoon	ILN	South Australia,Australia	31.3931S	136.8700E	137	
Isla Punˆ¡	ISPU	Ecuador	2.8078S	80.2415W	30	From 2012-12-05
Isla Saona	SAON	Dominican Republic	18.1833N	68.7667W	0	
Islas Juan Fernandez	IJF	Juan Fernandez Islands,Chile	33.6167S	78.8333W	6	
Islas Marias	IMM	Nayarit,Mexico	21.6200N	106.5800W		
Isla Socorro	SRR	Colima,Mexico	18.7254N	110.9524W	60	From 1974-01-01
Isla Socorro	H06N	Colima,Mexico	18.8600N	110.9900W	10	
Isle de Caille	GRIC	Grenada	12.2856N	61.5858W	46	From 2003-05-23
Isle of Man	WIM	Isle of Man	54.1472N	4.6735W	365	From 1985-01-01
Isle of Wight	SIW	England,United Kingdom	50.6711N	1.3747W	162	
Isle Royale National Park	C40A	Michigan,U.S.A.	47.9154N	89.1514W	216	From 2011-09-28
Ismay	E23A	Montana,U.S.A.	46.4978N	105.3062W	750	From 2008-10-30 to 2010-08-04
Ismayilli	ISM	Azerbaijan	40.8060N	48.2100E	926	From 1982-01-01 to 2003-01-01
Ismayilli	IML	Azerbaijan	40.7930N	48.1820E	728	From 2003-03-29
Ismayilll	ISL	Azerbaijan	40.8100N	48.1700E	755	From 2003-01-01
Isoka	IKZ	Zambia	10.1713S	32.6460E	1350	From 1984-01-01
Isola	ISO	Provence-Cote d'Azur,France	44.1833N	7.0500E	876	From 1960-01-01
Isola di Gorgona	GROG	Italy	43.4262N	9.8920E	118	From 2005-08-03
Isola Di Gorgona	GORG	Italy	43.4276N	9.8946E	228	From 2003-09-30 to 2005-08-03
Isola di Marettimo	IMT	Sicily,Italy	37.9567N	12.0783E		
Isola Levanzo	LV9	Sicily,Italy	37.9856N	12.3374E	20	
Isola Levanzo	LVI	Sicily,Italy	37.9861N	12.3389E	30	
Isole Tremiti	TREM	Italia	42.1239N	15.5108E	113	From 2014-06-11
Isortoq, Greenland	ISOG	Greenland	65.5480N	38.9757W	12	From 2007-07-24
Isparta	ISP	Turkey	37.8226N	30.5221E	1100	
Isparta/Yalvaˆ§-ˆzgˆ…ney	YVAC	Turkey	38.2709N	31.2395E	1185	From 2014-12-01
Ispir	EISP	Turkey	40.4873N	41.0080E	1200	From 2007-01-01 to 2012-08-31
Issarbe	ISSF	Aquitaine,France	43.0278N	0.7953W	1210	
Istanbul	ITU	Turkey	41.1062N	29.0148E	98	From 1989-01-02
Istanbul	IST	Turkey	41.0456N	28.9958E	50	From 1962-02-20 to 1989-01-02
Istanbul	IST1	Turkey	41.0433N	28.9850E	65	
Istanbul-Kandilli	ISK	Turkey	41.0656N	29.0592E	132	From 1935-01-01
Istric ta	ISRF	Romania	45.1186N	26.5433E	763	
Istrita	ISR	Romania	45.1188N	26.5431E	750	From 1977-03-01
ISU Calarasi	CLISU	Romania	44.1901N	27.3557E	59	From 2012-10-31
ISU Dolj	DJISU	Romania	44.2971N	23.8363E	160	From 2012-11-21
ISU Giurgiu	GRISU	Romania	43.8898N	25.9518E	66	From 2012-10-31
ISU Mehedinti	MHISU	Romania	44.6227N	22.6535E	102	From 2012-10-31
ISUMI INFRASONIC ARRAY REFERENCE POINT	I30JP	Chiba,Japan	35.3078N	140.3138E	52	From 2005-02-28
ISU Olt	OTISU	Romania	44.4278N	24.3755E	210	From 2012-10-31
ISU Teleorman	TRISU	Romania	43.9719N	25.3296E	87	From 2012-10-31
Itadori	ITD	Gifu,Japan	35.7238N	136.7804E	390	
Itaipu	ITB	Parana,Brazil	24.7936S	54.2089W	300	
Itaipu 1	ITB1	Parana,Brazil	24.6467S	54.3886W		From 1983-01-01
Itaipu 7	ITB7	Parana,Brazil	25.1222S	54.1753W	400	
Itaituba	ITTB	Para,Brazil	4.3672S	55.7343W	118	From 2014-05-05
Itaka	ITKT	Tanzania,United Republic of Tanzania	8.8728S	32.7830E	1590	From 1992-06-14
Itakohorinouchi	JIHU	Ibaraki,Japan	35.9658N	140.5258E	11	From 2012-07-01
Italian Canyon	ICI	Idaho,U.S.A.	44.3293N	112.9410W	2463	From 1992-01-01
Itanagar	INR	Arunachal Pradesh,India	27.0800N	93.6000E		From 1981-05-01
ITANAGAR	ITAN	Arunachal Pradesh,India	27.1446N	93.7219E	214	From 2011-05-01
Itanhaem-SP	PET01	Sao Paulo,Brazil	24.2901S	47.2753W	150	From 2011-01-30
Itaparica	ITR	Pernambuco,Brazil	8.7614S	38.4233W	321	
Itaparica 2	ITR2	Pernambuco,Brazil	9.0970S	38.2548W	375	
Itaparica 5	ITR5	Pernambuco,Brazil	8.9998S	38.4595W	315	
Itapeh - BA	NBIT	Bahia,Brazil	14.9307S	39.4345W	183	From 2011-10-13
Itaqui	ITQB	Rio Grande do Sul,Brazil	29.6714S	56.6241W	80	From 2013-12-01
Itatiaia	ITA	Rio de Janeiro,Brazil	22.3756S	44.7017W	2530	
Itaya	JFI	Fukuoka,Japan	33.4272N	130.3883E	660	
Itea	ITE1	Greece	38.4338N	22.4272E	14	From 2012-09-15
Itezhi-Tezhi	ITZ	Zambia	15.7465S	26.0157E	1106	From 1984-01-01
Ithaca	INY	New York,U.S.A.	42.4438N	76.4836W	238	From 1972-08-05
Ithaca	ITH	New York,U.S.A.	42.4500N	76.4833W	243	From 1909-01-01 to 1999-08-25
Ithaki	ITC1	Greece	38.3645N	20.7156E	1	From 2012-10-01
Ithomi	ITHO	Greece	37.1786N	21.9252E	400	
Ithomi	ITM	Greece	37.1797N	21.9267E	400	From 1974-10-01
Ito	ITO	Shizuoka,Japan	34.9667N	139.1000E		From 1937-06-01 to 1949-09-30
Itoigawa	ITGE	Niigata,Japan	37.0082N	137.9992E	270	
Itoiz	IPRE	Spain	42.8058N	1.3564W	530	From 2005-05-18
It Ong	MLVB	Vietnam	21.5060N	104.0315E	205	
Itumba	ITBT	Tanzania,United Republic of Tanzania	9.4287S	33.1858E	1270	From 1992-06-15
Iturama	ITRB	Minas Gerais,Brazil	19.7042S	50.3590W	431	From 2012-09-01 to 2099-01-01
Itzapa	ITG	Guatemala	14.5968N	90.8455W	2320	From 1984-07-01
Iul'tin	ILT	Magadanskaya Oblast',Russia	67.8700N	178.7300W	244	
Iuzhnay	IUG	Kazakhstan	42.1470N	70.0310E	1200	From 1989-09-01
Ivanjica	IVAS	Serbia	43.5764N	20.1524E	811	From 2008-10-22
Ivanof Bay	IVF	Alaska,U.S.A.	55.8958N	159.5300W	275	
Ivanovka	IVK	Irkutskaya Oblast',Russia	51.8009N	104.4140E	470	From 2011-05-29
Iverson Ranch	PIRM	California,U.S.A.	35.5544N	120.2234W	471	
IVIC	IVIV	Venezuela	10.4038N	66.9743W	2375	From 2004-02-17
Ivigtut	IVI	Greenland	61.2058N	48.1712W	15	From 2011-09-12
Ivujivik	IVKQ	Quebec,Canada	62.4184N	77.9113W	7	From 2006-09-16
Iwai-Kita	IWJ	Chiba,Japan	35.0981N	139.8714E	0	
Iwaki	IWK	Fukushima,Japan	37.0000N	140.9490E	35	
Iwakimizuishiyama	ONAJ	Fukushima,Japan	37.1017N	140.7983E	650	From 2002-03-28
Iwanai	IWN	Hokkaido,Japan	42.6705N	143.0462E	235	From 1976-07-01
Iwaosan	IWO	Mie,Japan	34.8825N	136.1322E	400	
Iwasaki	JIW	Aomori,Japan	40.5928N	140.0070E	330	
Iwateshizukuishi	JSZI	Iwate,Japan	39.7415N	140.9527E	256	From 2012-07-01
Iwatsuki	IWT	Saitama,Japan	35.9258N	139.7381E	-3501	
Iwo jima	YUO	Bonin Islands,Japan	24.7833N	141.3170E		
Ixhuatan	IHC	Chiapas,Mexico	17.2906N	93.0083W		
Ixpaco	IXG	Guatemala	14.1743N	90.4545W	1420	From 1984-10-01
Ixtacomitan	IXC	Chiapas,Mexico	17.4272N	93.1008W		
Ixtapalapa	IXT	Mexico D.F.,Mexico	19.4000N	99.1000W		
Iza	SRO1	Slovakia	47.7622N	18.2328E	111	From 2004-09-25
Izabela	IZAB	Slovakia	48.5689N	19.7126E	450	From 2013-11-20
Izee	I07A	Oregon,U.S.A.	44.0820N	119.5042W	1293	From 2006-07-21 to 2009-01-08
Izmir	IZM	Turkey	38.3978N	27.2625E	632	From 1973-03-18
Izmir	URLA	Turkey	38.3602N	26.5955E	495	From 2005-05-03
˜zmir	ZEY	Turkey	38.2389N	26.5033E	76	From 2007-11-30
˜zmir	DGB	Turkey	38.0521N	26.8826E	22	From 2007-04-04
˜zmir-Bergama	ZEDA	Turkey	38.9665N	27.0771E	174	From 2013-02-19
˜zmir/Urla-Zeytineli	ZEYE	Turkey	38.2390N	26.5032E	75	From 2014-12-02
Iznik	IZI	Turkey	40.3368N	29.4728E	910	From 1990-01-01
Iznik	IZN	Turkey	40.4338N	29.7605E	195	From 1978-11-01 to 1999-08-25
Izon-la-Bruisse	OG28	Rhone-Alpes,France	44.2582N	5.5975E	1040	From 1991-07-18
Izuhara	IZU	Nagasaki,Japan	34.1950N	129.2933E	18	
Izuhara	IZUJ	Nagasaki,Japan	34.1950N	129.2930E	3	From 1991-09-01
Izuhara 2	IZU2	Nagasaki,Japan	34.2273N	129.2733E	410	From 1991-02-26 to 2002-10-23
Izuhatsuma	JHTM	Shizuoka,Japan	34.9588N	139.0087E	230	From 2012-11-01
Izumi	IZT	Hyogo,Japan	34.9722N	134.8876E	230	
Izumi	JIU	Kumamoto,Japan	32.5733N	130.7933E	230	
Izumi 2	JIU2	Kumamoto,Japan	32.5453N	130.8145E	260	
Izumi3	JIU3	Kumamoto,Japan	32.5490N	130.8127E	250	From 2013-04-01
Izumosakaura	JISK	Shimane,Japan	35.5005N	132.8488E	166	From 2013-07-01
Izumozaki	JIZZ	Niigata,Japan	37.5317N	138.7095E	40	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Izushimoda	JIZS	Shizuoka,Japan	34.7178N	138.8782E	135	
Izvestkoviy	IZV	Kazakhstan	43.0360N	76.6130E	1720	From 1992-09-01
Izvoarele	IZVR	Romania	45.5432N	27.7672E	59	From 2013-09-28
Izvoarele B	IZVB	Romania	45.5619N	27.7686E	58	From 2013-10-05
Jabagly	JBG	Kazakhstan	42.4230N	70.5440E	1470	From 1991-09-01
Jabal Ad Dan - Dhamar Gov. - Yemen	ADDN	Yemen	14.3530N	43.8500E	2598	From 1997-01-20
Jabal al Asfar	ASF	Jordan	32.1723N	36.8972E	937	
Jabal al Khashab	KHB	Egypt	29.9280N	30.9750E	265	
Jabal al Moallq	JMOS	Saudi Arabia	29.1686N	35.1094E		
Jabal at Tayr	GTR	Egypt	25.5096N	30.5595E	160	
Jabal bu Thady	BTHT	Tunisia	35.1323N	10.2852E	240	
Jabal Farasan	FRJS	Saudi Arabia	22.5905N	39.3638E		
Jabal Katrina	HKAT	Egypt	28.5229N	33.9928E	1746	
Jabal Laban	LBNS	Saudi Arabia	21.0465N	39.9013E		
Jabal Madar	JMDO	Oman	22.3701N	58.1035E	350	From 2001-07-01
Jabal Masmas	HMSM	Egypt	22.8814N	31.8890E	380	
Jabal Moqyreh	JMQS	Saudi Arabia	28.8861N	35.8778E		
Jabalpur	JBP	Madhya Pradesh,India	23.1667N	79.9833E	0	
Jackboy Hill	MJHT	Montserrat	16.7672N	62.1698W	149	
Jackerath	JCK	Nordrhein-Westfalen,Germany	51.0350N	6.4309E	-240	From 1981-01-01
Jackman	JKM	Maine,U.S.A.	45.6555N	70.2426W	378	
Jack Peak	JPK	Alaska,U.S.A.	61.0552N	146.5978W	835	
Jackson	JS-TN	Tennessee,U.S.A.	35.6556N	88.6128W	152	From 1961-12-11 to 1962-06-28
Jackson	348A	Alabama,U.S.A.	31.4129N	87.9023W	57	From 2011-03-20 to 2013-01-25
Jackson	G14A	Montana,U.S.A.	45.2432N	113.4604W	2140	From 2006-11-10 to 2009-06-10
Jackson	JS-	Tennessee,U.S.A.	35.6556N	88.6128W	152	From 1961-12-11 to 1962-06-28
Jackson Bay	JCZ	South Island,New Zealand	44.0732S	168.7855E	1062	From 2004-06-23
Jackson Lake Dam	JLDW	Wyoming,U.S.A.	43.8562N	110.5873W	2074	
Jackson Lee, Bay Springs	246A	Mississippi,U.S.A.	32.0143N	89.1286W	113	From 2011-03-26
Jacksonville	238A	Texas,U.S.A.	32.0034N	95.1203W	126	From 2010-02-22 to 2011-12-11
Jacksonville	JAC	Florida,U.S.A.	30.4167N	81.6500W	9	From 1950-01-01 to 1956-12-31
Jacmel	JAKH	Haiti	18.2377N	72.5180W	47	
Jacoby Creek, Bayside	JCC	California,U.S.A.	40.8175N	124.0296W	27	From 2001-04-11
Jacura	JACV	Venezuela	11.0880N	68.8300W	349	From 2002-10-30
Jacuzzi	JCUZ	Hawaii,U.S.A.	19.3841N	155.1016W	753	
Jaen	EXJA	Spain	37.7720N	3.7890W	549	
Jaglot	DDJ	Pakistan	35.6900N	74.6040E	1575	From 2012-01-01
Jaguaretama	CS6B	Ceara,Brazil	5.4945S	38.6708W	112	From 2003-10-03 to 2005-06-16
Jahan bin	JHBN	Iran	32.2312N	50.6657E	2657	From 2011-01-01
Jahrom	JHRM	Iran	28.5053N	53.5771E	1019	From 2011-01-17
Jahuel	JACH	Aconcagua,Chile	32.6819S	70.5929W	1075	
Jaisalmer	JASL	Rajasthan,India	26.9243N	70.9030E	223	From 2002-01-18
Jajag, Banyuwangi	JAGI	Jawa,Indonesia	8.4702S	114.1521E	171	From 2008-07-21
Jakarta	DJA	Jawa,Indonesia	6.1833S	106.8362E	8	
Jalalah	GLL	Egypt	29.5772N	31.7081E	530	
Jalan Bani Buhassan	JLN	Oman	22.1505N	59.4108E	190	
Jama	JAMA	Ecuador	0.2612S	80.2058W	680	From 1992-02-05
Jamag	JMAG	Xizang Zizhiqu,China	29.6880N	91.6694E	4160	From 2004-06-14
JAMBI	JMBI	Jawa,Indonesia	1.6335S	103.6417E	0	From 2005-01-01
James Farms, Milford	R14A	Utah,U.S.A.	38.2987N	113.0213W	1542	From 2007-02-27 to 2008-09-18
Jamestown	P50A	Ohio,U.S.A.	39.6086N	83.7988W	318	From 2012-06-19
Jamestown	U50A	Tennessee,U.S.A.	36.4156N	84.8431W	474	From 2012-05-28
Jamestown	JMS1	South Australia,Australia	33.2045S	138.6092E	460	From 2011-06-29
Jamestown	JAS	California,U.S.A.	37.9466N	120.4393W	428	From 1964-01-01 to 1984-06-30
Jamestown	JAS1	California,U.S.A.	37.9267N	120.4210W	398	From 1984-07-03 to 1986-11-06
Jamestown Central School	AUJCS	South Australia,Australia	33.2000S	138.6100E	464	From 2013-08-11
Jammu	JMU	Jammu and Kashmir,India	32.7167N	74.9000E		
Janakpur	JANA	Nepal	26.7107N	85.9242E	77	From 2001-11-13 to 2002-06-03
Jandula	JAND	Spain	38.2200N	3.9700W	645	From 2006-05-01
Jangheung	KSJAH	Republic of Korea	34.6847N	126.9196E	0	From 2000-12-08
Jangngalda	ST34	Xizang Zizhiqu,China	33.4086N	88.7644E	4989	From 1998-07-10 to 1998-10-03
Jangpyeong	KUJA	Republic of Korea	34.8885N	128.6047E	-3	From 2012-10-09
Jangsu	KSJAS	Republic of Korea	35.6569N	127.5203E	407	From 2002-10-21
Janina	JAN	Greece	39.6567N	20.8508E	540	
Jan Mayen	JMIC	Norway	70.9866N	8.5052W	158	
Jan Mayen	JMI	Jan Mayen Island,Norway	70.9283N	8.7308W	50	From 1996-01-18
Jan Mayen East	JNE	Jan Mayen Island,Norway	70.9900N	8.2970W	57	From 1996-01-18
Jan Mayen West	JNW	Jan Mayen Island,Norway	71.0290N	8.4280W	95	From 1996-01-18
Jannena	JAN2	Greece	39.6640N	20.8519E	509	From 2011-06-15
Jannena	JAN3	Greece	39.6838N	20.8377E	476	From 2011-06-15
Januaria	JAN08	Minas Gerais,Brazil	15.0413S	44.2969W	710	From 2007-01-01 to 2008-12-31
Januaria	JANB	Minas Gerais,Brazil	15.0580S	44.3112W	686	From 2008-01-01
Januaria	JAN03	Minas Gerais,Brazil	15.1363S	44.2479W	622	From 2007-01-01 to 2008-12-31
Januaria	JAN06	Minas Gerais,Brazil	14.9963S	44.2909W	727	From 2007-01-01 to 2008-12-31
Januaria	JAN07	Minas Gerais,Brazil	15.0579S	44.3120W	686	From 2007-01-01 to 2008-12-31
Januaria	JAN09	Minas Gerais,Brazil	15.0373S	44.2457W	780	From 2007-01-01 to 2008-12-31
Jaout	JAU	Aquitaine,France	43.0380N	0.3693W	1545	
Jarabacoa	DR07	Dominican Republic	19.0856N	70.5981W	1030	
Jarash	JARJ	Jordan	32.2375N	35.9461E	840	From 1984-10-01
Jardin	JDN	Chiapas,Mexico	17.1650N	92.5000W	920	
Jarkent	DJR	Kazakhstan	44.3320N	79.7900E	1080	From 1987-09-01
Jarkhoshk	JRKH	Iran	35.9079N	60.3494E	1205	From 2011-10-26
Jarrell	435A	Texas,U.S.A.	30.7830N	97.5851W	247	From 2009-11-11 to 2010-01-15
Jarrell	435B	Texas,U.S.A.	30.7827N	97.5850W	248	From 2010-01-15
Jarrettsville	P59A	Maryland,U.S.A.	39.6101N	76.4327W	157	From 2013-04-27
Jask	JSK1	Iran	25.6379N	57.7701E	15	From 2013-05-15
Jasper	JA-	Minnesota,U.S.A.	43.8900N	96.3214W	518	
Jasper	JP-AT	Alberta,Canada	52.8972N	118.0903W	1128	
Jasper	Y48A	Alabama,U.S.A.	33.9131N	87.1696W	170	From 2011-12-17
Jasper	JP-	Alberta,Canada	52.8972N	118.0903W	1128	
Jasper	JA-MN	Minnesota,U.S.A.	43.8900N	96.3214W	518	
Jasper Ridge	JRSC	California,U.S.A.	37.4037N	122.2387W	70	From 1994-06-30
Jatai	JATB	Goias,Brazil	17.8929S	51.4929W	819	From 2004-01-07 to 2006-08-09
Jatiwangi	JCJI	Jawa,Indonesia	6.4900S	108.2700E	0	
Jato	JAT	Guatemala	14.3180N	91.6367W	68	From 1979-11-01
J.Aulia	JAWL	Sudan	15.2340N	32.4820E	426	From 2003-11-01
Jausiers	JAUF	Provence-Cote d'Azur,France	44.4292N	6.7500E	1585	From 1990-09-12
Javornik	JAVS	Slovenia	45.8934N	14.0643E	1100	From 2004-01-01
Jaww	BJA	Bahrain	25.9917N	50.6083E		
Jayapura	JAY	Irian Jaya,Indonesia	2.5148S	140.7047E	400	From 1973-04-01
Jazzator, Altay Republic, Russia	DGZ	Altayskiy Kray,Russia	49.7005N	87.4316E	1606	From 2003-08-20
J Bar K, Exeter	N33A	Nebraska,U.S.A.	40.7384N	97.4506W	475	From 2010-06-17 to 2012-04-22
Jbel Babet	JBB	Morocco	35.0130N	4.1980W	1230	From 1994-08-10
Jbel Lahdid	JHA	Morocco	31.7360N	9.4540W	725	
Jbel Ouklim	JOK	Morocco	31.4060N	5.5650W	1669	
J-C Ranch, Comstock	530A	Texas,U.S.A.	30.1489N	101.3379W	636	From 2009-02-24 to 2011-01-19
Jecheon	KSJEC	Republic of Korea	37.1538N	128.1912E	263	From 2000-11-20
Jeeralang Junction	JENM	Victoria,Australia	38.3507S	146.4197E	330	
Jefferson	P23A	Colorado,U.S.A.	39.3741N	105.8388W	3006	From 2008-06-24 to 2010-06-16
Jefferson College	JCMO	Illinois,U.S.A.	38.2575N	90.5585W	237	
Jehonathan	JNI	Israel	32.9500N	35.8270E	500	
Jehsanih	JEHI	Bali,Indonesia	8.0833S	115.2130E	60	
Jeju	KSJJU	Republic of Korea	33.4306N	126.5463E	542	From 2003-12-03
Jena	JE-LA	Louisiana,U.S.A.	31.7847N	92.0153W	46	From 1964-02-06 to 1967-01-16
Jena	JEN	Thuringen,Germany	50.9519N	11.5833E	193	
Jena (USA)	JE-	Louisiana,U.S.A.	31.7847N	92.0153W	46	From 1964-02-06 to 1967-01-16
Jenkinsville	JSC	South Carolina,U.S.A.	34.2817N	81.2603W	120	
Jenks	V36A	Oklahoma,U.S.A.	35.7863N	95.9425W	236	From 2010-06-10 to 2012-02-09
Jenolan Black	JBRM	New South Wales,Australia	33.7618S	150.0486E	1235	
Jenolan Caves	JNL	New South Wales,Australia	33.8257S	150.0219E	829	From 1959-01-01
Jensen Ranch, Palermo	B26A	North Dakota,U.S.A.	48.3762N	102.2341W	708	From 2009-07-29 to 2011-07-24
Jenson Cabin	JECI	Idaho,U.S.A.	44.3722N	114.1840W	2135	From 1983-12-01
Jeongeup	KSJEU	Republic of Korea	35.4935N	126.9298E	182	From 2003-11-26
JEONGSEON	KSJES	Republic of Korea	37.4303N	128.6654E	414	From 2006-12-30
Jeonju	KSCHO	Republic of Korea	35.8178N	127.1542E	53	From 1999-05-18
Jeonju	KSJEO	Republic of Korea	35.9379N	127.2928E	176	From 2007-12-12
Jerez de los Caballeros, Badajoz	E028	Spain	38.3553N	6.8073W	602	From 2007-09-13 to 2009-06-18
Jeri Cho Mine, NWT	JERN	Northwest Territories,Canada	66.0194N	111.4672W	476	From 2006-07-21 to 2010-07-20
Jermuk	DZR	Armenia	39.8800N	45.7000E	2115	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Jerome	JR-AZ	Arizona,U.S.A.	34.8256N	111.9903W	1311	From 1964-03-30 to 1965-10-04
Jerome	JR-	Arizona,U.S.A.	34.8256N	111.9903W	1311	From 1964-03-30 to 1965-10-04
Jersey	VJYM	Oregon,U.S.A.	44.9022N	120.9740W	951	
Jersey	JRS	Channel Islands,United Kingdom	49.1924N	2.0917W	53	From 1981-11-01
Jersey Dam (Crest)	JDC	Channel Islands,United Kingdom	49.1847N	2.0469W	39	From 1992-07-01
Jersey Dam (Gallery)	JDG	Channel Islands,United Kingdom	49.1947N	2.0469W	7	From 1992-07-01
Jerusalem	JER	Israel	31.7719N	35.1972E	770	From 1954-01-01
Jesolo	IESO	Italy	45.5200N	12.5500E	0	
Jessenland, Henderson	H36A	Minnesota,U.S.A.	44.5775N	93.9281W	311	From 2010-09-29 to 2012-09-10
Jettan, Norway	JETT	Norway	69.5557N	20.4095E	631	From 2014-11-05
Jette	JTMT	Montana,U.S.A.	47.7467N	114.2825W	1469	
Jewell Farm	JFWS	Wisconsin,U.S.A.	42.9143N	90.2481W	335	From 1992-07-29
Jhansi	JHNI	Uttar Pradesh,India	25.4658N	78.5395E	250	
Jialang	AXDP	Taiwan region	24.9000N	117.9700E	0	From 2011-07-22
Jiali	SCLT	Taiwan region	23.1750N	120.1940E	7	
Jianjiangzhen	LYJJ	Taiwan region	26.5500N	119.7600E	0	From 2011-07-22
Jian Township	EGA	Taiwan region	23.9730N	121.5630E	37	From 1998-08-07
Jiashian	SGST	Taiwan region	23.0820N	120.5830E	278	
Jicamarca	PT05	Peru	11.9548S	76.8693W	700	
Jicaral	JCR	Costa Rica	9.8498N	85.1118W	575	
Jichi Village	TEGC	Taiwan region	23.7090N	121.5400E	5	From 1999-08-04
Jillco Farms, Salem	S41A	Missouri,U.S.A.	37.5877N	91.7458W	376	From 2011-06-18
Jilotepec	JIL	Veracruz,Mexico	19.6307N	96.9333W	1330	
Jimani	JIDR	Dominican Republic	18.4910N	71.8507W	13	From 2010-01-22
Jim Creek	JCW	Washington,U.S.A.	48.1935N	121.9300W	616	
Jimena Frontera	EJIF	Spain	36.4513N	5.4688W	260	From 1988-05-20
Jimena Frontera	EJIM	Spain	36.4514N	5.4689W	260	From 1987-04-01 to 1988-05-19
Jim Sage Mountain	JSM	Idaho,U.S.A.	42.1313N	113.3825W	1524	
Jim Taylor Road, Stokes	V60A	North Carolina,U.S.A.	35.7650N	77.2629W	8	From 2013-04-06
Jindabyne	JIN	New South Wales,Australia	36.4394S	148.5930E	960	From 1958-01-01 to 1972-08-09
Jindo	KSJDO	Republic of Korea	34.4700N	126.3166E	477	From 2007-12-13
Jindrichovice	JIND	Czech Republic	50.2621N	12.6168E	722	
Jinju	KSCHI	Republic of Korea	35.2032N	128.1194E	21	From 1999-05-16
Jinju	KSJIN	Republic of Korea	35.1615N	128.0301E	72	From 2005-12-16
Jinotega	JIG	Nicaragua	13.2012N	85.7708W	1249	From 1975-01-01
Jiouru	SGLT	Taiwan region	22.7250N	120.4910E	30	
Jiquilpan	JQX	Baja California,Mexico	32.5080N	115.0710W	5	
Jiri	JIRN	Nepal	27.6600N	86.1900E	3064	From 1994-04-01
Jiri	JIRI	Nepal	27.6342N	86.2303E	1866	From 2001-10-15 to 2002-10-22
Jirik Farms, Max	C35A	Minnesota,U.S.A.	47.7007N	93.9763W	426	From 2010-09-14 to 2012-08-09
Jiuhuzhen	ZZJH	Fujian,China	24.4700N	117.6300E	0	From 2011-07-22
Jizan	JAZS	Saudi Arabia	17.0684N	42.9174E	173	
Jizan	JIZN	Saudi Arabia	16.9590N	42.8250E	100	From 1989-02-01
Joao Camara	JC04	Rio Grande do Norte,Brazil	5.4582S	35.6978W	120	
Joao Camara	JC06	Rio Grande do Norte,Brazil	5.5173S	35.7373W	130	
Joao Camara	JC20	Rio Grande do Norte,Brazil	5.6117S	35.7467W	120	
Joao Camara	JC05	Rio Grande do Norte,Brazil	5.4493S	35.7795W	140	
Joao Camara	JC1B	Rio Grande do Norte,Brazil	5.5703S	35.8525W	109	
Joaquin Canyon North	JCNB	California,U.S.A.	35.9390N	120.4311W	309	
Joaquin Canyon South	JCSB	California,U.S.A.	35.9212N	120.4340W	299	
Joaquin Lookout	JOAQ	New Mexico,U.S.A.	35.7708N	106.8410W	2768	From 1978-11-11
Joaquin Road	JJRM	California,U.S.A.	37.3447N	122.2010W	430	
Jocassee View	JVW	South Carolina,U.S.A.	34.9923N	82.9977W	554	
Jochberg	RJOB	Bayern,Germany	47.7372N	12.7957E	860	From 2001-05-15
Jocotitlan	JCM	Mexico D.F.,Mexico	19.7342N	99.7611W		From 1988-01-01
Jocotitlan	IIJ	Mexico:State,Mexico	19.7340N	99.7340W	3900	
Joensuu	JOF	Finland	62.9182N	31.3124E	180	From 1981-09-29
Joensuu	JOE	Finland	62.6517N	29.6950E	90	
Joes South Fork Station, Corydon	N38A	Iowa,U.S.A.	40.7931N	93.2350W	317	From 2010-11-15 to 2012-09-12
Johannesberg	BPI	Transvaal,South Africa	26.1750S	28.0300E	1700	
Johannesburg	JOH	Transvaal,South Africa	26.1817S	28.0750E	1806	
John Jarvie Ranch (BLM), Flaming Gorge	N19A	Utah,U.S.A.	40.8936N	109.1772W	1703	From 2007-08-18 to 2009-04-24
Johnnie	JON	Nevada,U.S.A.	36.4399N	116.1033W	939	From 1978-07-24 to 2002-12-10
Johnny Jack Ridge	KJJM	California,U.S.A.	40.2477N	124.3070W	725	
John Paul College, Kalgoorlie	AUKAL	West Australia,Australia	30.7600S	121.4800E	373	From 2012-09-16
John's Creek	JCE1	Oklahoma,U.S.A.	35.5812N	97.9003W	413	
John Shaw Road	KB2O	Ontario,Canada	45.3859N	76.1562W	95	From 2013-10-01
John Shaw Road, remote	KB6O	Ontario,Canada	45.3905N	76.1668W	90	From 2013-11-01
John Smith Road	HJSM	California,U.S.A.	36.8165N	121.2990W	215	From 1975-06-01
Johnson	JHN	Nebraska,U.S.A.	40.4469N	96.0175W	329	From 1978-12-01 to 2001-07-15
Johnson Can.	BJCM	California,U.S.A.	36.5470N	121.3920W	207	From 1969-06-18
Johnson Can.	AN15*	California,U.S.A.	36.5470N	121.3920W	207	From 1969-06-18
Johnson Canyon	JHC	California,U.S.A.	36.5470N	121.3920W	207	From 1969-06-18
Johnson Farm, Hartsville	X57A	South Carolina,U.S.A.	34.4643N	80.0940W	133	From 2013-02-09
Johnson Ranch, Cut Bank	A15A	Montana,U.S.A.	48.9777N	112.7327W	1236	From 2007-09-13 to 2009-08-13
Johns Peak	WJPM	California,U.S.A.	35.4109N	118.4820W	1090	
John Stanford Center Downhole Anss-SM	SSS1	Washington,U.S.A.	47.5818N	122.3311W	-20	From 2004-10-24
Johnston I.	JN-	Line Islands,Kiribati	16.7339N	169.5281W	3	From 1962-03-31 to 1962-08-02
Johnston Island	JN-IS	Johnston Island,U.S.A.	16.7339N	169.5281W	3	From 1962-03-31 to 1962-08-02
Johnston Island	JOHN	Johnston Island,U.S.A.	16.7329N	169.5292W	-36	
Jokulheimar	IJOK	Iceland	64.3153N	18.2255W	736	From 2011-09-27
Jolon Road	PJLM	North America,U.S.A.	36.0905N	121.1581W	240	
Jolon Road	JOL	California,U.S.A.	36.0837N	121.1690W	336	From 1969-06-18 to 2011-07-22
Jolon Road	PJRM	California,U.S.A.	36.0837N	121.1690W	336	From 1969-06-18 to 2011-07-22
Jones	149A	Alabama,U.S.A.	32.5983N	86.7916W	138	From 2012-01-17
Jonesboro	V43A	Arkansas,U.S.A.	35.7857N	90.5443W	74	From 2011-07-20 to 2013-03-12
Jones Farm, Ritzville	D09A	Washington,U.S.A.	47.0615N	118.3092W	540	From 2006-08-29 to 2008-06-10
Jones High Sch.	OK001	Oklahoma,U.S.A.	35.5611N	97.2895W	350	
Jones Ranch, Declo	K14A	Idaho,U.S.A.	42.5452N	113.1760W	1387	From 2006-12-28 to 2009-05-07
Joppolo	JOPP	Italy	38.6068N	15.8856E	500	From 2006-08-07
Jordan	JO-	Minnesota,U.S.A.	44.7069N	93.5083W	290	From 1962-07-13 to 1962-07-30
Jordan	JO-MN	Minnesota,U.S.A.	44.7069N	93.5083W	290	From 1962-07-13 to 1962-07-30
Jordan	GUIM	Panay,Philippines	10.6260N	122.5890E	50	
Jordan Butte	JBO	Oregon,U.S.A.	45.4616N	119.8370W	645	From 1982-09-01
Jordanelle	JLU	Utah,U.S.A.	40.6019N	111.4499W	2285	From 1981-09-28
Jordan Ranch	JRTX	Texas,U.S.A.	32.9340N	100.9530W	804	From 1979-01-01
Jordan River	JRBB	British Columbia,Canada	48.4300N	123.0522W	24	From 2008-05-13
Jordan Valley	JVI	Israel	31.9380N	35.3390E	680	From 1986-07-17
Jorden Valley SMO	JORV	Oregon,U.S.A.	42.9777N	117.0537W	1338	From 2004-07-01
Jorhat	JHI	Assam,India	26.7333N	94.1667E	84	From 1979-01-01
JORHAT	JORH	Assam,India	26.7430N	94.2513E	79	From 2011-05-01
Joseni	JOSR	Romania	46.7059N	25.5154E	749	From 2010-08-18
Joseph F. Staten	JFS	California,U.S.A.	35.3508N	117.6700W	1433	From 1979-06-01
Joseph's Coat	YJC	Wyoming,U.S.A.	44.7555N	110.3492W	2684	
Joshimath	JOSI	India	30.5558N	79.5582E	1889	From 2002-04-09
Joshua Ridge	JRC2	California,U.S.A.	35.9825N	117.8089W	1469	
Joshua Ridge West	JRWM	California,U.S.A.	35.9943N	117.8215W	1366	
Joshua Tree	NYJ	Nevada,U.S.A.	37.0080N	115.9750W	1286	From 1971-01-01 to 1973-01-31
Joshua Tree Park	JTR	California,U.S.A.	33.8140N	115.9002W	1372	
Josvafo	JOS	Hungary	48.4958N	20.5394E	280	
Jouge	JJG	Hiroshima,Japan	34.6412N	133.1543E	470	
Jozini	JOZ	Natal,South Africa	27.4450S	32.0783E	244	From 1976-07-01 to 1999-08-25
J Risha	RSHJ	Jordan	30.2610N	35.2330E	357	From 1989-12-15
J Risha	JRSJ	Jordan	30.2610N	35.2330E	357	From 1989-12-15
J. Sargeant Reynolds Community College	JSRW	Virginia,U.S.A.	37.6938N	77.8786W	67	
J Saunders Place	SNDA	California,U.S.A.	33.5519N	116.6129W	1358	
Jston Ridge Obs	JRO	Washington,U.S.A.	46.2751N	122.2178W	1280	
Juana Nunez	DR1	Dominican Republic	19.3114N	70.6961W		
Juana Nunez	DR01	Dominican Republic	19.3114N	70.6961W	505	
Juan Diaz	JUD	Costa Rica	10.1620N	85.5470W	844	From 1984-11-01
Juan Diaz 2	JUD2	Costa Rica	10.1670N	85.5412W	680	
Juan Diaz 3	JUD3	Costa Rica	10.1659N	85.5388W	665	
Juan Fernˆjndez	VA04	Juan Fernandez Islands	33.6427S	78.8299W	117	From 2014-05-27
Juan Fernandez Island Hydroacoustic Site N1	H03N1	Juan Fernandez Islands,Chile	33.4412S	78.9120W	-2657	From 2003-07-10 to 2010-02-28
Juan Fernandez Island Hydroacoustic Site N2	H03N2	Juan Fernandez Islands,Chile	33.4399S	78.9324W	-2765	From 2003-07-10 to 2010-02-28
Juan Fernandez Island Hydroacoustic Site N3	H03N3	Juan Fernandez Islands,Chile	33.4556S	78.9240W	-2316	From 2003-07-10 to 2010-02-28
Juan Fernandez Island Hydroacoustic Site S1	H03S1	Juan Fernandez Islands,Chile	33.8437S	78.9058W	-2700	From 2003-07-23 to 2004-05-01
Juan Fernandez Island Hydroacoustic Site S2	H03S2	Juan Fernandez Islands,Chile	33.8370S	78.9262W	-2722	From 2003-07-23 to 2004-05-01
Juan Fernandez Island Hydroacoustic Site S3	H03S3	Juan Fernandez Islands,Chile	33.8258S	78.9095W	-2619	From 2003-07-23 to 2004-05-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Jubany	JUBA	South Shetland Islands	62.2373S	58.6627W	16	
Jud	E30A	North Dakota,U.S.A.	46.5021N	98.9098W	544	From 2009-08-20 to 2011-06-25
Judd Hill Plantation	JHP	Arkansas,U.S.A.	35.6050N	90.5100W	68	
Jufra	LJFR	Libya	29.1018N	15.8128E	351	
Jug	JUM	New Mexico,U.S.A.	35.9050N	106.6680W	2400	
Jugenheim	JUG	Hessen,Germany	49.7667N	8.6000E		
Juive	JUI6	Ecuador	1.4244S	78.4686W	2422	From 2007-07-13
Juive	JUIV	Ecuador	1.4238S	78.4647W	2380	From 1992-02-04
Juive 3	JUI3	Ecuador	1.4218S	78.4767W	2425	
Juiz de Fora	JFO	Minas Gerais,Brazil	21.7277S	43.3254W	780	From 1990-08-01
Jujurieux	OG05	Franche Comte,France	46.0405N	5.4583E	400	
Jujuy	JUJ	Jujuy,Argentina	24.2458S	65.2728W	1270	
Julian	JULC	California,U.S.A.	33.0483N	116.6130W	1292	From 1978-04-01
Julich	JUE	Nordrhein-Westfalen,Germany	50.9100N	6.4070E	91	From 1974-11-01
Jumaytepeque	JMG	Guatemala	14.3387N	90.2703W	1815	From 1979-05-01
Jumilla	EXJU	Spain	38.4750N	1.3160W	520	
Jumkunaria	JUMK	Gujarat,India	23.3600N	70.3400E	-25	From 2012-01-01
Jumunjin	KSJMJ	Republic of Korea	37.8816N	128.7561E	75	From 2008-01-01
Junction	R15A	Utah,U.S.A.	38.2108N	112.2767W	1861	From 2007-05-21 to 2009-03-11
Junction City	JCT	Texas,U.S.A.	30.4794N	99.8022W	591	From 1965-03-01
Junction City	H41A	Wisconsin,U.S.A.	44.6164N	89.6534W	348	From 2011-08-11 to 2013-06-08
Juneau Island	JIS	Alaska,U.S.A.	58.2762N	134.3831W	10	From 1995-04-18
June Lake	JLK	Washington,U.S.A.	46.1467N	122.1530W	1049	
Jungingen	JUND	Baden-Wurttemberg,Germany	48.3301N	9.0408E	600	From 1976-01-01
Jungrangju	KSJUR	Republic of Korea	37.6136N	127.0886E	56	From 2007-01-01
Juni	PT11	Peru	11.5490S	75.7150W	4480	From 1983-09-21
Juniper Basin Ranch, Riddle	L10A	Idaho,U.S.A.	42.0773N	116.4711W	1537	From 2007-01-10 to 2008-08-16
Juniper Gulch	JGI	Idaho,U.S.A.	44.0925N	112.6770W	1657	From 1979-11-06
Juniper Hills	JNH	California,U.S.A.	34.4475N	117.9540W	1317	From 1977-11-01
Juniper Island	ISLE	Alaska,U.S.A.	60.6025N	142.3391W	1485	
Juniper Ridge	PJUM	California,U.S.A.	36.2270N	120.5935W	925	
Junjel	JNJ	Guatemala	15.3988N	91.4287W	3348	From 1980-01-01 to 1999-08-25
Juno	JU-TX	Texas,U.S.A.	30.1119N	101.0772W	533	From 1964-04-04 to 1964-08-11
Juno	JU-	Texas,U.S.A.	30.1119N	101.0772W	533	From 1964-04-04 to 1964-08-11
JuntasAbangares	JTS	Costa Rica	10.2908N	84.9525W	340	
Juntas del Toro	CO01	Coquimbo	29.9773S	70.0939W	2157	From 2013-02-13
Juquia	JUQB	Sao Paulo,Brazil	24.0930S	47.7163W	470	
Jurilovca	JURR	Romania	44.7661N	28.8769E	37	From 2013-11-06
Juriquilla Campus	JRQG	Queretaro de Arteaga,Mexico	20.7037N	100.4469W	1965	
Jwalamukhi	JWA	Himachal Pradesh,India	31.8667N	76.3333E		
Jwalamukhi	JWL	Himachal Pradesh,India	31.8700N	76.3706E	0	
Jyotipuram	JYP	Jammu and Kashmir,India	33.1083N	74.8500E		
Kaadhehdhoo	KAAM	Maldives	0.4926N	72.9949E	-1	From 2008-01-29
Kaahu Road	KUTZ	North Island,New Zealand	38.4891S	175.8233E	457	From 2010-04-15
Kaapuna	KUH	Hawaii,U.S.A.	19.2663N	155.8710W	524	From 1972-01-04
Kabakon Island	EDY	New Ireland,Papua New Guinea	4.2395S	152.3890E	5	
Kabaktan	KBKS	Sakha,Russia	56.6800N	122.4200E	1010	From 1989-05-01 to 1989-08-31
Kabansk	KAB	Buryatiya,Russia	52.0500N	106.6539E	468	
Kabd	KBD	Kuwait	29.1756N	47.6933E	124	
Kabsdagh	KBSD	Syria	37.0013N	40.5430E	562	From 2002-04-01
Kabul	KBL	Afghanistan	34.5408N	69.0432E	1920	
Kabul (SRO)	KAAO	Afghanistan	34.5408N	69.0432E	1920	From 1977-05-10
Kabul University	KBU	Afghanistan	34.5151N	69.1347E	1817	From 2005-11-24
Kabupaten Dompu	DBNI	Sumba,Indonesia	8.5019S	118.3121E	185	
Kace˘ov	KACW	Czech Republic	50.1436N	12.5172E	524	From 2004-01-01
Kadamtala	KATL	Andaman Islands,India	12.3656N	92.7500E	14	From 2012-01-01
Kaden, Bauxite	X41A	Arkansas,U.S.A.	34.4949N	92.5137W	102	From 2011-05-07 to 2013-02-16
Kadinhani	KDHN	Turkey	38.5211N	32.1164E	1122	From 2005-02-23
Kadzharan	KDR	Armenia	39.1500N	46.1000E	2155	From 1972-01-01
Kaena	KAE	Hawaii,U.S.A.	19.2892N	155.1320W	37	From 1973-05-08
Kaena Point	KPH	Hawaii,U.S.A.	21.5761N	158.2750W	110	From 1965-04-01 to 1976-12-31
Kaeng Krachan	PHET	Thailand	12.9100N	99.6300E	100	From 2008-01-01
Kafar-mosalman	IKFM	Iran	33.5244N	47.8469E	0	From 2008-01-01
Kafrein	KFNJ	Jordan	31.8617N	35.6760E	-90	From 1983-09-01
Kaftarguzar	KFTR	Tajikistan	38.8300N	70.1500E	1800	
Kaga	JKG	Ishikawa,Japan	36.2767N	136.3317E	25	
Kagalaska	AD3	Alaska,U.S.A.	51.7428N	176.3570W	198	From 1974-01-01 to 1992-02-01
Kagalaska Island	ETKA	Alaska,U.S.A.	51.8619N	176.4059W	290	
Kagoshima	KAG	Kagoshima,Japan	31.5508N	130.5508E	2	
Kagoshima 2	KAGJ	Kagoshima,Japan	31.1867N	130.8883E	200	
Kagssortoq	KAGG	Greenland	63.2485N	42.0349W	28	
Kahalu'u	KHLU	Hawaii,U.S.A.	19.5920N	155.8931W	958	
Kahama	HAMA	Tanzania,United Republic of Tanzania	3.8318S	32.6430E	1222	
Kahang-Kahang	KHKI	Bali,Indonesia	8.3643S	115.6080E		
Kaharoa	KARZ	North Island,New Zealand	38.0202S	176.2443E	405	From 2006-05-02
Kahnooj	KHNJ	Iran	27.9477N	57.7056E	492	From 2013-05-15
Kahramanmaras	KMRS	Turkey	37.5053N	36.9000E	590	From 2006-08-30
Kahramanmara˘	HCB	Turkey	37.3439N	36.9081E	516	From 2009-03-01
Kahramanmara˘/Dulkadiro˘lu	KAHM	Turkey	37.5167N	36.9870E	587	From 2014-10-31
KAHRAMANMARAS_ Elbistan	ELBS	Turkey	38.3243N	37.1327E	1260	From 2011-11-02
Kahui Hut	KHEZ	North Island,New Zealand	39.2942S	174.0145E	874	From 2009-05-21
Kahuku	KHU	Hawaii,U.S.A.	19.2461N	155.6150W	1937	From 1969-08-26
Kahului Airport	KHLH	Hawaii,U.S.A.	20.8972N	156.4264W	14	
Kahuranaki	KAHZ	North Island,New Zealand	39.7942S	176.8766E	638	From 2007-06-07
Kahutara	KHZ	South Island,New Zealand	42.4160S	173.5390E	20	From 1988-12-08
Kaiam	KIAM	Papua New Guinea	7.1124S	143.9224E	307	
Kaiamu	PGKAI	New Britain,Papua New Guinea	5.4659S	150.9134E	10	
Kaibab National Forest USFS, William	V15A	Arizona,U.S.A.	35.8191N	112.1731W	1891	From 2007-04-19 to 2008-11-21
Kaikoura	KKZ	South Island,New Zealand	42.4203S	173.6965E	109	From 1980-06-17 to 1989-06-08
Kaikoura West	KKY	South Island,New Zealand	42.4183S	173.6921E	101	From 1972-06-08 to 1980-06-17
Kailua Kona	KKH	Hawaii,U.S.A.	19.6567N	156.0186W	14	From 1975-01-01
Kaimai	KMRZ	North Island,New Zealand	37.8456S	175.9416E	542	From 2011-03-08
Kaimana, Papua	KMPI	Irian Jaya,Indonesia	3.6616S	133.7044E	0	From 2008-12-01
Kaimata	KAI	South Island,New Zealand	42.5241S	171.4088E	82	From 1942-09-01 to 1990-12-05
Kainokawa	KKW	Wakayama,Japan	33.8987N	135.4420E	260	
Kaiseraugst-Friedh	SKAF	Switzerland	47.5384N	7.7199E	270	From 2006-10-04
Kaiser Creek	KCC	California,U.S.A.	37.3236N	119.3187W	888	From 1995-12-09
Kaiserville	KVN	Nevada,U.S.A.	39.0510N	118.1000W	1829	From 1972-01-13
Kaitaia	KIT*	North Island,New Zealand	35.1083S	173.2650E	91	
Kaitanak	KTNR	Altayskiy Kray,Russia	50.1470N	85.4650E	979	
Kaizawa	KZW	Aomori,Japan	40.6915N	140.3631E	160	
Kajaani	KJN	Finland	64.0853N	27.7119E	250	
Kajaani	KJF	Finland	64.1992N	27.7147E	160	From 1970-07-09 to 1990-03-31
Kajisay	KDJ	Kyrgyzstan	42.1300N	77.1800E	1799	From 2011-04-15
Kakadu	KAKA	Northern Territory,Australia	12.7115S	132.4396E	100	
Kakadu	KDU	Northern Territory,Australia	12.6869S	132.4727E	46	From 2008-11-26
Kakani	KKN	Nepal	27.7900N	85.2800E	1920	From 1980-03-01
Kakaramea	KATZ	North Island,New Zealand	38.9749S	175.6949E	1327	From 1996-08-25
Kakegawa	JKKG	Shizuoka,Japan	34.7857N	137.9732E	-450	
Kakegawa	KGW	Shizuoka,Japan	34.8626N	138.0222E	69	
Kakegawashinomba	JKKS	Shizuoka,Japan	34.7510N	137.9857E	75	From 2012-11-01
Kakessio	OSIN	Tanzania,United Republic of Tanzania	3.3678S	35.0375E	1684	
Kakhk	KHI	Iran	34.1433N	58.6417E	1600	From 1971-04-01
Kakioka	KAK	Ibaraki,Japan	36.2317N	140.1930E	27	
Kakioka Outpost	KAKJ	Ibaraki,Japan	36.2050N	140.1730E	-80	From 1978-01-01
Kalaidasht	KLTT	Tajikistan	38.3800N	69.2900E	1800	From 1961-01-01 to 1995-01-01
Kalaidasht	KLD	Tajikistan	38.5300N	69.4800E		
Kalalua Cone	KLCH	Hawaii,U.S.A.	19.4058N	155.0680W	659	
Kalamaria	KLR1	Greece	40.5824N	22.9495E	54	From 2011-06-01
Kalamata	KLMT	Crete,Greece	37.0613N	22.0597E	6	From 2013-10-10
Kalamata	KAL3	Greece	39.3662N	21.9195E	126	From 2011-11-01
Kalamazoo	KZM	Michigan,U.S.A.	42.1528N	85.8211W		From 1978-02-01 to 1996-12-31
Kalaupapa	KPA	Hawaii,U.S.A.	21.1900N	156.9848W	4	
Kalavrita	KLV1	Greece	38.0326N	22.1080E	718	From 2011-10-01
Kalavryta, Achaia	KLV	Greece	38.0437N	22.1504E	758	From 2009-04-08
Kalayaan	KIPH	Spratly Islands	11.0530N	114.2840E	2	
Kalborn	LKLB	Luxembourg	50.1000N	6.1086E	320	From 1995-04-01
Kald??rsel	IKAS	Iceland	64.0229N	21.8520W	108	From 2006-02-03
Kalfafell	IKAL	Iceland	63.9480N	17.6870W	78	From 1996-10-22

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Kalgarh	KALG	Uttar Pradesh,India	29.5062N	78.7537E	0	
Kalgoorlie	KLG	Western Australia,Australia	30.7837S	121.4580E	360	From 1964-01-01 to 1986-05-12
Kalgoorlie	KLGA	Western Australia,Australia	30.7175S	121.4380E	390	From 1986-05-12 to 1988-08-10
Kalianget	KMMI	Jawa,Indonesia	7.0500S	113.9667E	0	
Kaliastana	KALI	Jawa,Indonesia	7.1064S	106.6590E	810	
Kalibo	KALP	Panay,Philippines	11.6780N	122.3380E	15	
Kaliningrad	KLNR	Kaliningradskaya Oblast',Russia	54.6044N	20.2094E	8	From 2009-04-10
Kalinino	KLN4	Sakhalinskaya Oblast',Russia	46.8480N	142.0104E	20	From 2003-01-01 to 2006-12-31
Kalithea	KALE	Greece,Greece	38.3911N	22.1398E	760	From 2008-01-01
Kalix	KALU	Sweden	65.8596N	23.3567E	30	From 2006-09-19
Kallithies, Rhodes Isl.	RKL1	Greece	36.3367N	28.1712E	70	From 2012-08-01
Kalltalsperre	KLL	Nordrhein-Westfalen,Germany	50.6467N	6.3113E	440	
Kalmit	KTD	Rheinland-Pfalz,Germany	49.3202N	8.0837E	670	From 1971-10-01
Kalnik	KALN	Croatia	46.1312N	16.4557E	580	
Kalocsa	KAL	Hungary	46.5286N	18.9764E	93	
Kaloudiana Chania	KLDN	Crete,Greece	35.4870N	23.6905E	44	From 2006-12-01
Kalpa	KLP	Himachal Pradesh,India	31.5333N	78.2500E	2724	
Kalwaria Paclawska	KWP	Poland	49.6314N	22.7075E	448	From 1999-06-24
Kamafusa	KMF	Miyagi,Japan	38.2100N	140.7017E	180	
Kamakawa 2	JKK2	Kamikawa,Japan	43.8728N	142.7480E	350	
Kamakura	KMK	Kanagawa,Japan	35.3167N	139.5500E		
Kaman	KAMT	Turkey	39.3690N	33.7130E	1161	
KAMANJAB	KJAB	Namibia	19.6200S	14.8480E	1071	From 2006-04-05
Kamaran Island	KAMRY	Yemen	15.3327N	42.6158E	23	From 2007-10-10
Kamar-syah	IKMR	Iran	33.5178N	48.3803E	0	From 2008-01-01
Kamata	KTJ	Shizuoka,Japan	34.9433N	139.0870E	58	From 1979-04-01 to 1990-03-20
Kamata 2	KTJJ	Shizuoka,Japan	34.9252N	139.0640E	175	From 1990-03-20
Kamata3	KTJ3	Shizuoka,Japan	34.9338N	139.0708E	156	From 2012-07-01
Kambah	KMBH	Australian Capital Territory,Australia	35.3892S	149.0786E	599	From 1985-12-15
Kambalda	KMBL	Western Australia,Australia	31.3669S	121.8821E	370	From 2000-11-28
Kamchatka Peninsula	KAMP	Kamchatskaya Oblast',Russia	56.0220N	163.0220E	97	From 1983-08-01 to 1983-08-31
Kamchatka temporary site	ST01S	Kamchatskaya Oblast',Russia	60.4330N	166.0600E	29	
Kamchatka temporary site	ST02S	Kamchatskaya Oblast',Russia	60.9610N	166.8530E	66	
Kamchatka temporary site	ST03S	Kamchatskaya Oblast',Russia	60.9850N	166.2250E	157	
Kamenistaya	KMNR	Kamchatskaya Oblast',Russia	55.7560N	160.2370E	1100	
Kamenistyi	UL2S	Sakha,Russia	65.4100N	144.8300E	670	From 1988-01-01 to 1988-12-31
Kamenskaya	KMSK	Kamchatskaya Oblast',Russia	62.4669N	166.2055E	45	From 2010-06-24
Kamenskoye	KAMR	Kamchatskaya Oblast',Russia	62.4560N	166.2100E	64	From 1994-10-10
Kamensk Uralskiy	KAUR	Sverdlovskaya Oblast',Russia	56.4318N	61.5030E	166	From 2007-04-02
Kameyama	KMYN	Mie,Japan	34.8670N	136.3500E	240	
Kameyama	KAM	Mie,Japan	34.8567N	136.4650E	71	
Kami	KMA	Albania	42.2620N	20.2428E		
Kamigamo	KGMK	Kyoto,Japan	35.0593N	135.7657E	180	
Kamigamo	KMM	Kyoto,Japan	35.0333N	135.7000E	190	
Kamikawa	JKK	Kamikawa,Japan	43.8117N	142.8472E	430	
Kamikawa-asahi	JKA	Kamikawa,Japan	44.1160N	142.6000E	220	From 2009-01-01
Kamikineusu	KMU	Hidaka,Japan	42.2386N	142.9670E	185	From 1967-07-01
Kamikuga	KKGU	Tochigi,Japan	36.5979N	139.6250E	280	From 1976-07-17
Kamimonzen	KV02	Miyazaki,Japan	31.9931N	130.8364E	430	
Kamimuroga	KRJ	Nagano,Japan	36.4164N	138.1510E	621	From 1968-07-01
Kaminaka	KMNK	Tokushima,Japan	33.7865N	134.3057E	280	
Kaminokuni	KKJ	Hiyama,Japan	41.7789N	140.1757E	70	
Kamitakara	KTJD	Gifu,Japan	36.2802N	137.3271E	760	
Kammena Vourla	KMV1	Greece	38.7794N	22.7846E	25	From 2013-01-15
Kamo	KAMZ	Armenia	40.8250N	43.9500E	1230	
kamogawauchiura	JKUC	Chiba,Japan	35.1597N	140.1992E	80	From 2012-11-01
Kamor	KAMOR	Switzerland	47.2896N	9.4875E	1730	
Kamor/St.Gall Rh.T	LIENZ	Switzerland	47.2946N	9.4927E	1720	From 2004-10-28
Kamuela	KML	Hawaii,U.S.A.	20.0317N	155.7000W	740	
Kamusenperˇ, Kalajoki	OBF7	Finland	64.1766N	24.0536E	39	From 2013-03-19
Kanab	KN-UT	Utah,U.S.A.	37.0228N	112.8275W	1737	From 1961-12-09 to 1999-08-25
Kanab	KNB	Utah,U.S.A.	37.0166N	112.8220W	1715	From 1968-11-01
Kanab	KEUT	Utah,U.S.A.	37.0503N	112.5293W	1514	From 2008-05-29
Kanab	KN-	Utah,U.S.A.	37.0228N	112.8275W	1737	From 1961-12-09 to 1999-08-25
Kanaga Island Cape Miga	KICM	Alaska,U.S.A.	51.9189N	177.1953W	183	
Kanaga Island Kanaga Volcano	KIKV	Alaska,U.S.A.	51.8788N	177.1704W	411	
Kanaga Island MID Benchmark	KIMD	Alaska,U.S.A.	51.7616N	177.2349W	183	
Kanaga Island North Cape	KINC	Alaska,U.S.A.	51.9314N	177.1276W	198	
Kanaga Island Round Head	KIRH	Alaska,U.S.A.	51.8996N	177.0935W	309	
Kanaga Island Westway Bight	KIWB	Alaska,U.S.A.	51.8531N	177.1508W	244	
Kanahau	KANH	Hawaii,U.S.A.	20.6933N	156.2913W	2745	
Kanaihara	KNJD	Shiga,Japan	35.5716N	136.2846E	300	
Kanaka Peak	KPK	California,U.S.A.	39.5833N	121.3050W	899	From 1969-01-01
Kanangra Walls	KANM	New South Wales,Australia	33.9966S	150.0668E	1206	
Kanayama	KNY	Fukushima,Japan	37.4004N	139.5580E	390	
Kanazawa	KAN	Ishikawa,Japan	36.5467N	136.6480E	28	
Kanazawa	KANJ	Ishikawa,Japan	36.5867N	136.6370E	0	From 1991-10-23
Kanazawa 2	KAN2	Ishikawa,Japan	36.5250N	136.7767E	530	From 1992-04-24
Kanchanaburi	KBR	Thailand	14.0167N	99.5333E	28	From 1986-12-01
Kandavu Island	KDV	Fiji	18.9655S	178.3470E	390	
Kandilli-Istanbul	KAVV	Turkey	41.0638N	29.0600E	139	From 2010-01-01
Kandira	KND	Turkey	41.0527N	30.1608E	50	From 1978-11-01 to 1999-08-25
Kanekii	KIH	Hawaii,U.S.A.	19.5093N	155.7650W	1841	
Kane Nui o Hamo	KNHH	Hawaii,U.S.A.	19.3794N	155.1693W	954	
Kaneyama	JYK	Yamagata,Japan	38.9178N	140.3590E	220	
Kangalassy	KNGL	Sakha,Russia	62.3470N	129.9710E	150	
kangal_SIVAS	CUKAN	Turkey	39.3163N	37.4667E	1523	From 2010-07-09
Kangasniemi	KAF	Finland	62.1128N	26.3061E	205	From 1977-08-31
Kangasniemi	NE62	Finland	62.1120N	26.3060E	124	
Kangerlussuaq 2	SF2	Greenland	66.9967N	50.6226W	0	
Kangerlussuaq 2	SFJD	Greenland	66.9960N	50.6215W	80	
Kangiqsualujjuaq	KAJQ	Quebec,Canada	58.6940N	65.9305W	46	From 2011-08-10
Kangiqsujuaq	KNGQ	Quebec,Canada	61.5849N	71.9483W	54	From 2011-08-05
Kangirsuk	KRSQ	Quebec,Canada	60.0220N	69.9912W	132	From 2011-08-07
Kangurt	KNR	Tajikistan	38.2500N	69.5300E		
Kano Inlet	KANO	British Columbia,Canada	53.2883N	132.6175W	221	
Kansas City	KC-	Missouri,U.S.A.	39.3558N	94.6714W	274	From 1965-10-17 to 1967-01-16
Kansas City	KC-MO	Missouri,U.S.A.	39.3558N	94.6714W	274	From 1965-10-17 to 1967-01-16
Kansas State University--Konza Prairie	KSU1	Kansas,U.S.A.	39.1009N	96.6094W	317	From 2003-05-28
Kantara	KANT	Cyprus	35.3830N	33.8800E	0	
Kantishna Hills	KTH	Alaska,U.S.A.	63.5530N	150.9220W	975	From 1988-08-15
Kanton	KNTN	Phoenix Islands,Kiribati	2.7744S	171.7190W	0	
Kanzaki	KZT	Hyogo,Japan	35.0739N	134.7933E	200	
Kaohsiung	KAU	Taiwan region	22.5679N	120.3080E	2	
Kaohsiung City	SNJT	Taiwan region	22.7533N	120.3352E	21	From 2013-01-18
Kaohsiung Port	KAUP	Taiwan region	22.5540N	120.3150E	0	From 2001-08-27
Kaoiki Faults	KFH	Hawaii,U.S.A.	19.4210N	155.4190W	1579	
Kapahiang	KSI	Sumatera,Indonesia	3.6517S	102.5929E	539	
Kapalarasan	KAPS	Kazakhstan	45.2850N	79.3570E	900	From 1989-09-01
Kapapala Ranch	KLH	Hawaii,U.S.A.	19.2733N	155.4450W	610	From 1969-10-02 to 2000-11-09
Kapiti Island	KIW	North Island,New Zealand	40.8609S	174.9098E	381	From 1978-04-10
Kapoho	KPO	Hawaii,U.S.A.	19.5003N	154.8420W	134	
Kapowsin	B941	Washington,U.S.A.	46.9868N	122.2190W	3	
Kappang	KPNG	Sulawesi,Indonesia	5.0153S	119.7508E	300	
Kappang	KAPI	Sulawesi,Indonesia	5.0142S	119.7517E	30	
Kap Tobin	KTG	Greenland	70.4167N	21.9833W	6	From 1980-09-30 to 2000-05-26
Kapuskasing	KAPO	Ontario,Canada	49.4504N	82.5079W	210	
Kapuskasing	KAO	Ontario,Canada	49.4483N	82.4850W	198	From 1982-09-18 to 1999-08-25
Kaputan	KAPZ	Armenia	40.3220N	44.6990E	1700	
Karabastau	KRBS	Kazakhstan	43.6960N	75.6750E	915	From 2013-09-10
Karabiga	KGT	Turkey	40.4517N	27.3033E	185	From 1984-03-14
Karabiga-Canakkale	KRBG	Turkey	40.3932N	27.2977E	76	From 2008-06-27
KARABUK-Merkez	KBUK	Turkey	41.2366N	32.6270E	548	From 2012-11-16
Karaburun	KRBN	Turkey	38.5935N	26.5536E	135	From 2011-07-24
Karacabey	KCT	Turkey	40.2656N	28.3567E	451	From 1983-06-01
Karacabey (Bursa)	KCTX	Turkey	40.2655N	28.3565E	451	From 2008-07-11
Karacayir	SVSK	Turkey	39.9170N	36.9980E		
Karachi	KCHI	Pakistan	24.9100N	67.1300E	34	From 2006-07-26
Karachi	KAR	Pakistan	24.9333N	67.1433E	34	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Karacoban	EKAR	Turkey	39.2559N	42.0640E	2129	From 2009-09-29
Karad	KARD	Maharashtra,India	17.3074N	74.1834E	618	
Karad	KAD	Maharashtra,India	17.3075N	74.1833E	582	From 1970-01-01
Karadeniz	KDE	Turkey	41.2889N	31.4250E	290	From 1982-07-01
Karadeniz Ereoli	KDZE	Turkey	41.3132N	31.4429E	410	From 2006-06-29
Karagaybulak	KBK	Kyrgyzstan	42.6564N	74.9478E	1760	
Karahalli	KHL	Turkey	38.3232N	29.5232E	940	From 1988-08-01
Karahalli	KHAL	Turkey	38.3703N	29.4917E	1141	From 2007-05-30
Karaikal	KRKL	Tamil Nadu,India	10.9000N	79.8667E		
Karaisali	KARA	Turkey	37.2607N	35.0546E	366	From 2005-08-26
Karaka Road Borehole	KBAZ	North Island,New Zealand	37.0947S	174.8886E	-148	From 2008-10-30
Karakunidake	KV06	Miyazaki,Japan	31.9494N	130.8711E	1100	
Karaman	KRMN	Turkey	37.1739N	33.2635E	1068	From 2014-02-07
Karaman7Kaz¨–mkarabekir	KKBE	Turkey	37.2196N	32.9404E	1118	From 2014-12-01
Karamursel	KMS	Turkey	40.6727N	29.5911E	280	From 1978-08-01 to 1999-08-25
Karamyk	DRK	Kyrgyzstan	39.4800N	71.8000E	2627	From 2011-03-12
Karanay	KRNR	Dagestan,Russia	42.8269N	46.9069E	1150	
Karangkates	KRKI	Jawa,Indonesia	8.1583S	112.4525E	0	
Karang Pucung	KPJI	Jawa,Indonesia	7.3330S	108.9310E	0	From 2007-12-01
Karang Ratu	KRAI	Ambon,Indonesia	3.3184S	128.3947E	124	
Karanos	KARN	Crete,Greece	35.4019N	23.9174E	420	From 2004-12-03
Karapiro	KRP	North Island,New Zealand	37.9232S	175.5377E	64	From 1951-06-15 to 1990-02-06
Karasker	IKSK	Iceland	64.1613N	16.4737W	940	From 2013-06-02
Karasu	KRUK	Kyrgyzstan	41.6200N	72.5800E	0	From 1960-10-01 to 1989-01-01
Karasu	KRU	Tajikistan	38.4800N	68.9700E		
Karatas	KRTS	Turkey	36.5731N	35.3749E	53	From 2005-08-25
Karatas-Adana	KRTD	Turkey	36.5933N	35.4157E	47	From 2011-09-01
Karatay Array	KKAR	Kazakhstan	43.1034N	70.5115E	520	From 2001-12-01
Karatay Array site	KK06	Kazakhstan	43.0944N	70.5255E	533	From 2001-12-01
Karatay Array site	KK31	Kazakhstan	43.1034N	70.5115E	520	From 2001-12-01
Karatay Array site	KK05	Kazakhstan	43.1170N	70.5235E	509	From 2001-12-01
Karatay Array site	KK08	Kazakhstan	43.1048N	70.4871E	539	From 2001-12-01
Karatay Array site	KK02	Kazakhstan	43.1034N	70.5115E	520	From 2001-12-01
Karatay Array site	KK01	Kazakhstan	43.1054N	70.5061E	525	From 2001-12-01
Karatay Array site	KK03	Kazakhstan	43.1028N	70.5012E	529	From 2001-12-01
Karatay Array site	KK04	Kazakhstan	43.1098N	70.5060E	525	From 2001-12-01
Karatay Array site	KK09	Kazakhstan	43.1224N	70.4995E	546	From 2001-12-01
Karatay Array site	KK07	Kazakhstan	43.0891N	70.5008E	528	From 2001-12-01
Karatobe	KTBS	Kazakhstan	43.7120N	76.6820E	766	From 1992-09-01
Karatu	KRTU	Tanzania,United Republic of Tanzania	3.3560S	35.5960E	862	
Kardeh	IKRD	Iran	36.7759N	58.5146E	2245	From 2004-06-01
Karewarewa	KRVZ	North Island,New Zealand	39.0944S	175.6412E	1207	From 2004-12-03
Karewarewa	KAVZ	North Island,New Zealand	39.0957S	175.6460E	1192	From 1993-11-12 to 2004-12-15
Kargi	KART	Turkey	41.1697N	34.3056E	1946	From 1992-01-01 to 1994-05-31
Kargicak-Mersin	KARG	Turkey	36.2030N	33.7087E	275	From 2013-04-18
Kariba Dam	KRB	Zimbabwe	16.5267S	28.7950E	805	From 1966-03-01 to 1999-08-25
Karkaralinsk	KKL	Kazakhstan	49.3300N	75.3800E	0	
Karkar Island	KKI	Papua New Guinea	4.5883S	145.9540E	460	From 1975-06-22
Karley and Nick, Howard	I32A	South Dakota,U.S.A.	44.0271N	97.4643W	493	From 2010-07-26 to 2012-06-06
Karliova-Bingol	KARO	Turkey	39.3089N	41.0493E	1820	From 2012-11-29
Karlovasi Samou	KRL1	Greece	37.7950N	26.7064E	10	From 2010-10-01
Karlskrona	KLS	Sweden	56.1650N	15.5917E	11	
Karlsruhe	KRL	Baden-Wurttemberg,Germany	49.0108N	8.4122E	114	From 1905-01-01
Karlsruhe West	KRW	Baden-Wurttemberg,Germany	49.0214N	8.3681E	110	
Karmit	KMTI	Israel	30.1044N	34.7251E	473	
Karmoy	KMY	Norway	59.2120N	5.2470E	58	From 1984-11-01
Karmrakar	KRMZ	Armenia	39.3110N	46.4760E	1480	
Karmrakar	KKRS	Armenia	39.3200N	46.4700E	1490	
Karoi	KRR	Zimbabwe	16.8517S	29.6183E	1380	From 1967-01-01 to 1978-12-31
Karoi	KRI	Zimbabwe	16.8307S	29.6151E	1343	
KARONGA	KARM1	Malawi	9.9541S	33.8954E	522	From 2010-08-05
Karpankyla	KU5	Finland	65.9146N	29.8862E	260	From 2003-11-05
Karpathos	KAP	Greece	35.5508N	27.1747E	250	From 1988-01-01 to 2003-02-24
Karpathos	KRPT	Crete,Greece	35.7611N	27.1981E	161	From 2007-05-01
Karpathos	KARP	Greece	35.5472N	27.1612E	528	
Karratha	KAA	Western Australia,Australia	20.7772S	116.8590E	15	From 1971-02-11 to 1972-08-09
Kars	KARS	Turkey	40.6276N	43.0788E	1450	From 1994-01-13
Kars	DIGO	Turkey	40.4147N	43.3742E	2278	From 2005-08-04
Karshahi	KRSH	Iran	33.9693N	52.1354E	1629	From 2012-04-01
Karterados	SAP2K	Greece	36.4108N	25.4457E	185	
Karterados, Santorini	SNT3	Greece	36.4130N	25.4471E	136	From 2011-05-26
Karuizawa	KAZ	Nagano,Japan	36.3383N	138.5500E	1001	
Karuizawa	KRZ	Nagano,Japan	36.3383N	138.5500E	1001	
Karymshinskiy	KRMR	Kamchatskaya Oblast',Russia	52.8300N	158.1300E	120	From 2002-07-01
Karymskiy	KII	Kamchatskaya Oblast',Russia	54.0360N	159.4490E	900	
Karystos	KARY	Greece	38.0321N	24.4370E	220	From 2008-06-16
Kas	AKAS	Turkey	36.2327N	29.6052E	1279	From 2005-03-24
Kasabonika Lake, First Nations Ontario	KASO	Ontario,Canada	53.5279N	88.6414W	192	From 2005-08-03
Kasai	JKS	Hyogo,Japan	34.9827N	134.8443E	150	
Kasama	KSMZ	Zambia	10.1715S	31.2255E	1392	
Kasempa	KMZ	Zambia	13.4555S	25.8337E	1223	From 1984-01-01
Kashi	KSH	Xinjiang Uygur Zizhiqu,China	39.5167N	75.9731E	1314	
Kashima	KSJ	Nagano,Japan	36.5762N	137.8050E	1010	From 1968-12-01 to 1969-03-31
Kashiwara	KAJ	Osaka,Japan	34.5000N	135.8000E	120	
Kashiwa-zaki	KZK	Niigata,Japan	37.2951N	138.5157E	220	
Kashiwa-zaki	KZJ	Niigata,Japan	37.3307N	138.5265E	100	
Kasma	KU7	Finland,Finland	65.7582N	28.8991E	265	From 2007-08-13
Kasperske Hory	KHC	Czech Republic	49.1309N	13.5782E	695	From 1973-01-01
Kasrt alli	KSRV	Syria	35.8641N	39.0026E	300	From 2005-01-01
Kassiopi	KASA	Greece	39.7463N	19.9354E	65	From 2010-08-18
Kassos Island	KSS1	Greece	35.4189N	26.9207E	0	From 2011-10-01
Kastamon¨—Araˆ§	PELI	Turkey	41.3005N	33.3117E	1057	From 2013-02-28
Kastamonu	KMON	Turkey	41.3738N	33.7839E	935	From 2013-09-23
Kastamonu	KAS	Turkey	41.3717N	33.7667E	850	From 1958-09-01
KASTAMONU	KAST	Turkey	41.4904N	33.9286E	677	From 2008-12-02
Kastamonu/Cide-Merkez	CIDE	Turkey	41.8821N	32.9471E	27	From 2014-12-01
Kastanea	KTI	Greece	40.3929N	22.1165E	1329	
Kastek	KST	Kazakhstan	43.0430N	75.9630E	1415	
Kastelli Heraklio	KSTL	Crete,Greece	35.3037N	25.0707E	70	From 2006-12-01
Kastellorizon	KSL	Greece	36.1500N	29.5833E	100	From 1988-01-01
Kastoria	KSO	Greece	40.5225N	21.2775E	740	From 1997-01-01
Kastoria	KAS2	Greece	40.5050N	21.2803E	657	From 2011-09-01
Kasumi	JKSM	Hyogo,Japan	35.5875N	134.6638E	85	
Kasumkent	KSMR	Dagestan,Russia	41.6028N	48.1278E	840	
Kaszmaul Farm, Murdock	S33A	Kansas,U.S.A.	37.5936N	98.0016W	471	From 2009-10-16 to 2011-08-26
Katale	KTL	Democratic Republic of the Congo	1.3247S	29.3838E	1600	From 1990-01-01
Katano	KTNK	Osaka,Japan	34.7716N	135.7053E	250	
Katas	KTAS	Punjab,India	32.7000N	72.6000E	655	From 2010-06-30
Katashina	JKT	Tochigi,Japan	36.7667N	139.2488E	933	
Katherine and Luke Keathley, Corsicana	236A	Texas,U.S.A.	31.9997N	96.5310W	118	From 2010-04-25 to 2012-01-20
Katherine High School	AUKAT	Northern Territories,Australia	14.4600S	132.2800E	122	From 2013-08-11
Katherine N.T. Australia	KATH	Northern Territory,Australia	14.4710S	132.2900E	206	From 2013-02-18
Katlanovo	KAY	FYR Macedonia	41.8958N	21.7017E	248	From 1969-01-01
Katmai	KAWH	Alaska,U.S.A.	58.3837N	154.7992W	777	
Katmai	KTM	Alaska,U.S.A.	58.3247N	155.3760W	945	From 1973-07-27 to 1975-08-24
Katmai Barrier Ridge	KABR	Alaska,U.S.A.	58.1312N	154.9692W	884	
Katmai Bkd Mtn	KBM	Alaska,U.S.A.	58.2750N	155.2017W	732	
Katmai Buttress	KABU	Alaska,U.S.A.	58.2704N	155.2822W	1065	
Katmai Hardscrabble Creek	KAHC	Alaska,U.S.A.	58.6490N	155.0060W	1250	
Katmai Hook Glacier	KAHG	Alaska,U.S.A.	58.4940N	154.5463W	923	
Katmai Ikagluik Creek	KAIC	Alaska,U.S.A.	58.4850N	155.0458W	734	
Katmai Knife Crk	KAKN	Alaska,U.S.A.	58.2970N	155.0611W	1049	
Katmai Mt Cerb's	KCE	Alaska,U.S.A.	58.2433N	155.1833W	777	
Katmai Pasha	KAPH	Alaska,U.S.A.	58.5968N	154.3468W	907	
Katmai Rainbow River	KARR	Alaska,U.S.A.	58.4978N	154.7033W	610	
Katmai Vly 10 NE	KVTA	Alaska,U.S.A.	58.3817N	155.2950W	457	
Katnaghbyur	KATS	Armenia	41.0183N	44.1850E	1795	
Katnajur	NB2S	Armenia	40.8150N	44.1717E	1800	
Kato	SKBJ	Hokkaido,Japan	43.2383N	143.0367E	460	From 2003-03-03

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Kato Achaia	KAC1	Greece	38.1381N	21.5481E	34	From 2012-10-01
Kato Vasiliki	VRS	Greece	38.3520N	21.6080E	340	From 2006-05-10
Katrineberg	KTN	Sweden	61.0660N	16.2840E		From 1980-01-01
Katsuura	KTR	Chiba,Japan	35.1478N	140.3153E	10	From 1988-01-01
Katsuyama	KADD	Fukui,Japan	36.0621N	136.5482E	380	
Katsuyama	KAJD	Fukui,Japan	36.0487N	136.5281E	300	
Kattavia Rhodes Isl.	RKT1	Greece	35.9534N	27.7685E	46	From 2012-08-01
Kauhava	NE63	Finland	63.0470N	22.6680E	55	
Kauri Point	KAAZ	North Island,New Zealand	36.8223S	174.7036E	80	From 1998-05-23 to 2009-09-08
Kaushut	KAH	Turkmenistan	37.4500N	59.4830E	257	
Kautokeino	KTK1	Norway	69.0117N	23.2371E	340	From 1989-01-01
Kautokeino	KTK4	Norway	69.0081N	23.2347E		
Kautokeino	KTK2	Norway	69.0075N	23.2374E		From 1989-01-01 to 2003-04-05
Kautokeino	KTK5	Norway	69.0096N	23.2273E		
Kautokeino	KTK6	Norway	69.0100N	23.2360E	340	
Kautokeino	KTK3	Norway	69.0067N	23.2352E		From 1989-01-01 to 2003-04-05
Kavak	KVT	Turkey	41.0806N	36.0464E	650	From 1976-08-01
Kavala	KAVA	Greece	40.9967N	24.5137E	157	From 2008-05-16
Kavala	KVLA	Greece	40.9370N	24.3859E	122	From 2010-08-25
Kavieng	KAVG	New Ireland,Papua New Guinea	2.5816S	150.8066E	20	From 2013-06-03
Kavieng	KVG	New Ireland,Papua New Guinea	2.5878S	150.8120E	10	From 1974-05-01 to 2013-06-01
Kavieng	KAV	New Ireland,Papua New Guinea	2.5733S	150.8170E	4	From 1971-08-25 to 1974-05-31
Kavouri	KVR	Greece	37.8278N	23.7695E	60	
Kawah Idjen	KIJ	Jawa,Indonesia	8.0667S	114.2330E		
Kawai	KWJ	Shiga,Japan	35.5154N	136.2494E	170	
Kawasaki	HRM	Kanagawa,Japan	35.5506N	139.6792E	-536	
Kawatabi	KWT	Miyagi,Japan	38.7533N	140.7600E	260	
Kawauchi	JFK	Fukushima,Japan	37.3665N	140.8745E	520	
Kawazu	KWZ	Shizuoka,Japan	34.7625N	138.9900E	65	
Kaweka Forest	KWHZ	North Island,New Zealand	39.4240S	176.4228E	799	From 2010-06-02
Kawich Peak	KP-NV	Nevada,U.S.A.	37.8975N	116.4592W	2134	
Kawich Range	KRNA	Nevada,U.S.A.	37.7417N	116.3803W	1980	From 1980-04-23 to 2002-10-10
Kayabasi	BDRM	Turkey	37.0653N	27.4442E	368	From 2003-05-26
Kayabe	JKB	O shima,Japan	41.8877N	141.0325E	10	
Kayacik-Havza(Samsun)	KAYA	Turkey	40.9468N	35.7490E	890	From 2013-12-05
Kayak Island	KAIM	Alaska,U.S.A.	59.9268N	144.4160W	311	
Kayak Island	KYK	Alaska,U.S.A.	59.8683N	144.5230W	375	From 1974-10-02 to 1999-08-25
Kaye Shedlock's, Cheyenne Wells	KSCO	Colorado,U.S.A.	39.0112N	102.6273W	1382	From 2008-10-28
Kayrak	KYR	Turkey	36.3517N	33.5253E	1210	From 1988-01-01
Kayseri	GUNE	Turkey	38.9025N	35.6250E	1235	From 2013-01-31
KAYSERI_Yahyali	YAHY	Turkey	38.0947N	35.3630E	1230	From 2011-05-31
Kazeroun	IKAZ	Iran	29.7796N	51.8400E	2805	From 2002-10-01
Kazerun	KAZ1	Iran	29.6252N	51.6395E	850	From 2014-07-08
Kaziranga	KZI	Assam,India	26.5767N	93.4083E	130	From 1983-02-01
Kazreti	KZR	Georgia,Georgia	41.3815N	44.4153E	740	From 2003-01-01
Kazreti	KZRT	Georgia,Georgia	41.3866N	44.3987E	723	From 2012-08-24
Kealakekua	KLK	Hawaii,U.S.A.	19.5220N	155.9200W	505	From 1964-01-28 to 1974-01-31
Kealakomo	KEA	Hawaii,U.S.A.	19.3083N	155.1600W	201	
Keanaka@18ko'i	KKO	Hawaii,U.S.A.	19.3978N	155.2660W	1146	
Keanakolu	KKU	Hawaii,U.S.A.	19.8898N	155.3430W	1863	
Keban	KEB	Turkey	38.7978N	38.7278E	739	From 1974-05-28
Keben-Mersin	KEBE	Turkey	36.4470N	33.7132E	769	From 2011-07-01
Kecel	PKS2	Hungary	46.4920N	19.2131E	106	
Kechabta	KCHT	Tunisia	37.1100N	9.9400E	565	
Kecovo	KECS	Slovakia	48.4832N	20.4856E	345	From 2003-12-15
Kecskemet	KEC	Hungary	46.9122N	19.6983E	122	
Kedomdong	KEDI	Lombok,Indonesia	8.4870S	116.1130E	560	From 1991-01-01
Kedougou	KED*	Senegal	12.5687N	12.2112W		From 1976-08-01
Kedougou	KED	Senegal	12.9258N	12.3214W		From 1974-08-01 to 1976-08-01
Kedougou	KDS	Senegal	12.5687N	12.2112W	110	From 1976-05-01
Kedougou	KDG	Senegal	12.9258N	12.3214W		
Keefer Ranch, Vananda	E21A	Montana,U.S.A.	46.5408N	107.0757W	834	From 2008-08-10 to 2010-08-05
Keeler	KEEL	Oregon,U.S.A.	45.5502N	122.8951W	67	
Keelung Port	KLUP	Taiwan region	25.1330N	121.7410E	0	From 2001-04-10
Keen Camp Maintenance Station	KEE	California,U.S.A.	33.6383N	116.6530W	1366	From 1975-02-01
Keen Mountain	KMV	Virginia,U.S.A.	37.2083N	82.0258W	500	From 1969-01-01 to 1969-12-31
Keepit Bedrock	KPTM	New South Wales,Australia	30.8851S	150.4819E	295	
Keepit Dam	KPAM	New South Wales,Australia	30.8791S	150.4902E	264	
Keeseville	KSVO	New York,U.S.A.	44.5424N	73.6861W	388	
Keetly	KLJ	Utah,U.S.A.	40.6308N	111.4050W	1992	From 1992-10-30
Kefar Szold	KSDI	Israel	33.1920N	35.6590E	123	
Kef Ayad	AKAY	Algeria	36.3063N	4.9353E	1485	
Kef el Ahmar	CKHR	Algeria	36.0167N	5.5122E	1280	
Kef-Lekhel	CKFL	Algeria	36.4000N	6.7200E	1229	From 2004-12-01
Keg River	KV-AT	Alberta,Canada	56.8303N	117.3239W	305	From 1965-10-12 to 1965-11-15
Keg River	KV-	Alberta,Canada	56.8303N	117.3239W	305	From 1965-10-12 to 1965-11-15
Kehvi	KEH	Georgia,Georgia	42.3082N	43.9339E	1031	From 2007-12-29
Keihoku	JWK2	Soya,Japan	45.3162N	141.8975E	60	
Keihoku	KHK	Kyoto,Japan	35.1774N	135.6623E	260	
Keimoes	KEIM	Cape Province,South Africa	28.7040S	20.9680E	760	From 2010-12-22
Kejulik	KJL	Alaska,U.S.A.	58.0540N	155.5732W	792	From 1996-08-01
Kekaha	KEKH	Hawaii,U.S.A.	21.9829N	159.7110W	54	From 2007-07-18
Kekajˆ⁄rvi, Ylivieska	OBF6	Finland	64.1389N	24.5666E	70	From 2013-03-20
Kekliktepe	KEKT	Turkey	40.4853N	29.2422E	950	From 1994-01-01
Kelakatan	KELI	Bali,Indonesia	8.2167S	114.4910E	591	
Kelbejer	KBJ	Azerbaijan	40.1500N	46.0900E	1350	From 1984-01-01 to 1993-01-01
Kelkit	KELT	Turkey	40.1486N	39.2556E	1912	From 2003-11-06
Kellerberrin	KLBR	Western Australia,Australia	31.5915S	117.7546E	320	From 1999-10-13
Kellerberrin	KLB	Western Australia,Australia	31.5923S	117.7600E	300	From 1981-09-23 to 2006-05-29
Kellogg	KGI	Idaho,U.S.A.	47.4883N	116.0820W	1400	From 1970-01-01 to 1975-01-31
Kelly Canyon	KCI	Idaho,U.S.A.	43.6688N	111.6640W	1902	
Kelly Hill Caves	KELC	South Australia,Australia	35.9825S	136.9111E	100	
Kelly School	KSWY	Wyoming,U.S.A.	43.6226N	110.6280W	2031	
Kelsey	KELB	British Columbia,Canada	48.6611N	123.5701W	53	
Kelsey Bay	KBB	British Columbia,Canada	50.3847N	126.0280W	1310	From 1986-08-23
Kelsey New	KLNB	British Columbia,Canada	48.6611N	123.5706W	53	
Keltepe	KLT	Turkey	40.6435N	30.1006E	1601	From 1978-09-01 to 1980-12-31
Kelud	KEL	Jawa,Indonesia	8.1000S	112.9000E		
Kemaliye	KEMA	Turkey	39.2688N	38.4932E	1026	From 2006-10-19
Kemer-ANTALYA	KEMT	Turkey	36.6037N	30.5559E	0	From 2012-10-10
Kemerovo	KEM	Kemerovskaya Oblast',Russia	55.3429N	86.0886E	122	From 2005-05-19
Kempfer Cattle CO., St. Cloud	859A	Florida,U.S.A.	28.0592N	80.8984W	13	From 2012-02-15
Kenai	KEN	Alaska,U.S.A.	60.6167N	151.1533W	10	From 1964-04-04 to 1964-06-26
Kendall Valley, Cora	J18A	Wyoming,U.S.A.	43.2112N	110.0200W	2357	From 2007-11-05 to 2009-05-17
Kendari	KDI	Sulawesi,Indonesia	3.9574S	122.6192E	55	From 2005-01-01
Kendrikon	KNT	Greece	41.1619N	22.8981E	380	From 1981-01-01
Kenedy	735A	Texas,U.S.A.	28.8553N	97.8081W	90	From 2009-12-18 to 2011-11-13
Kennady Lake	KNDN	Northwest Territories,Canada	63.4193N	109.2013W	421	
Kennard Place, Willow Creek	F16A	Montana,U.S.A.	45.7843N	111.6262W	1350	From 2007-10-18 to 2009-07-11
Kennedy	BKA	Alabama,U.S.A.	33.6339N	87.9690W	122	
Kennewick	KE-WA	Washington,U.S.A.	46.1400N	119.2775W	396	
Kennewick	KE-	Washington,U.S.A.	46.1400N	119.2775W	396	
Kent Elementary ANSS-SMO	KNEL	Washington,U.S.A.	47.3805N	122.2519W	14	From 2004-08-01
Kentfield	KFC	California,U.S.A.	37.9550N	122.5530W	6	
Kentland	N45A	Indiana,U.S.A.	40.8479N	87.5118W	206	From 2011-10-12
Kenton	E41A	Michigan,U.S.A.	46.4643N	88.9636W	377	From 2011-09-10 to 2013-06-08
Kent School, Kent	KSCT	Connecticut,U.S.A.	41.7261N	73.4842W	114	
Kent State University	KSUO	Ohio,U.S.A.	41.1509N	81.3504W	370	
Kepong	FRIM	Peninsular Malaysia,Malaysia	3.2370N	101.6250E	98	From 1996-01-01
Keramoti	KERA	Crete,Greece	35.3692N	23.5577E	240	
Keravat	KRT	New Britain,Papua New Guinea	4.3529S	152.0520E	20	From 1966-11-18 to 1969-04-07
Keravat	KET	New Britain,Papua New Guinea	4.3331S	152.0360E	17	From 1969-03-26 to 1970-12-31
Keravat (AS076)	KRVT	New Britain,Papua New Guinea	4.3068S	152.0260E	105	From 2013-03-17
Kerch	KERU	Ukraine	45.3100N	36.4600E	50	From 1997-05-01
Kerema	KRG	Papua New Guinea	7.9597S	145.7690E	14	
Keren	KERI	Israel	30.9900N	34.4900E	360	
Kereru	KRHZ	New Zealand	39.6431S	176.3701E	530	From 2008-04-28
KERGUELEN INFRASONIC ARRAY REFERENCE POINT	I23FR	Kerguelen Islands,France	49.3458S	70.2416E	84	From 2007-12-10
kERI	KRI1	Greece	37.6621N	20.8172E	178	From 2012-11-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Kerinci	KRJI	Sumatera,Indonesia	2.0912S	101.4619E	811	From 2005-01-01
kERKIRA	KRK1	Greece	39.6179N	19.9163E	16	From 2010-10-01
Kerkira	KEK	Greece	39.7130N	19.7987E	280	From 1989-03-01
Kerman	KRBR	Iran	29.9822N	56.7605E	2576	From 2004-06-01
Kerman	KRBA	Iran	29.9797N	56.7523E		
Kermanshah	KER	Iran	34.3850N	47.1319E	1330	
Kermit	KM5	Texas,U.S.A.	31.8317N	103.0317W	874	From 1976-10-15 to 1999-08-25
Kermit	KT4	New Mexico,U.S.A.	31.9100N	103.3152W	948	From 1976-01-17 to 1999-08-25
Kermit	KT7	New Mexico,U.S.A.	31.7092N	103.3060W	847	From 1975-11-13 to 1999-08-25
Kermit	KM6	Texas,U.S.A.	31.9825N	102.8632W	1030	From 1976-10-16 to 1999-08-25
Kermit	KM3	Texas,U.S.A.	31.6777N	103.2092W		
Kermit	KM2	Texas,U.S.A.	32.0925N	103.0718W	932	
Kermit	KTT	Texas,U.S.A.	31.5436N	102.8820W	795	From 1975-11-10
Kermit	KT2	New Mexico,U.S.A.	32.0894N	103.1020W	927	From 1976-01-20 to 1976-12-15
Kermit	KT9	New Mexico,U.S.A.	31.7178N	102.8810W	869	From 1976-01-17 to 1976-10-14
Kermit	KT5	New Mexico,U.S.A.	32.0680N	103.3260W		From 1976-03-24 to 1976-10-15
Kermit	KTX	Texas,U.S.A.	31.5305N	103.2897W	847	From 1976-01-16 to 1999-08-25
Kermit	KT8	New Mexico,U.S.A.	31.7067N	103.0972W	840	From 1976-01-16 to 1999-08-25
Kermit	KIT	Texas,U.S.A.	31.5436N	102.8820W	795	
Kermit	KT3	New Mexico,U.S.A.	31.6227N	103.2888W	855	
Kermit	KIE	Texas,U.S.A.	31.6068N	103.1957W	828	
Kermit	KTE	Texas,U.S.A.	31.5278N	103.0970W	799	From 1976-01-15 to 1976-10-14
Kermit	KT1	New Mexico,U.S.A.	32.0683N	103.3290W	930	From 1975-11-08 to 1999-08-25
Kermit	KME	Texas,U.S.A.	31.5782N	103.1200W	816	From 1976-10-14 to 1999-08-25
Kermit	KM9	Texas,U.S.A.	31.7482N	102.8563W	888	From 1976-10-14 to 1999-08-25
Kermit	KKT	Texas,U.S.A.	31.6227N	103.2890W		
Kern-Tulare	WKTM	California,U.S.A.	35.7940N	118.4420W	890	
Kerr Lake	PKLM	California,U.S.A.	35.7730N	120.3399W	422	
Kerrville	533A	Texas,U.S.A.	30.0718N	99.0351W	556	From 2009-11-07 to 2011-10-05
Kesennumamotoyoshi	JKMT	Miyagi,Japan	38.8108N	141.4738E	67	From 2012-11-01
Keshet	KSHT	Israel	32.9820N	35.8110E	719	From 1991-05-01
Keskin Array Beam Reference Point	BRTR	Turkey	39.7250N	33.6390E	1440	
Keskin Array Site 101	BR101	Turkey	39.7254N	33.6391E	1437	
Keskin Array Site 102	BR102	Turkey	39.7355N	33.6486E	1525	
Keskin Array Site 103	BR103	Turkey	39.7196N	33.6570E	1488	
Keskin Array Site 104	BR104	Turkey	39.7074N	33.6414E	1346	
Keskin Array Site 105	BR105	Turkey	39.7180N	33.6173E	1431	
Keskin Array Site 106	BR106	Turkey	39.7338N	33.6180E	1372	
Keskin Array Site 131	BR131	Turkey	39.7253N	33.6390E	1414	
Keskin MP Array Beam Reference Point	BRMAR	Turkey	39.8417N	32.7760E	1257	
Keskin MP Array Site 231	BR231	Turkey	39.8417N	32.7760E	1196	
Keskin MP Array Site 232	BR232	Turkey	39.9285N	32.9820E	1071	
Keskin MP Array Site 233	BR233	Turkey	39.7935N	32.9813E	1	
Keskin MP Array Site 234	BR234	Turkey	39.6519N	32.8001E	1002	
Keskin MP Array Site 235	BR235	Turkey	39.7413N	32.5916E	1217	
Keskin MP Array Site 236	BR236	Turkey	39.8795N	32.5511E	1035	
Keskin MP Array Site 237	BR237	Turkey	40.0187N	32.7304E	1045	
Kesra	KEST	Tunisia	35.7318N	9.3460E	885	
KESRA INFRASONIC ARRAY REFERENCE POINTI	48TN	Tunisia	35.8052N	9.3230E	848	From 2006-06-02
Kestanelik-??atalca	CTKS	Turkey	41.2364N	28.5066E	47	From 2007-09-28
Keswick	CKE	England,United Kingdom	54.5877N	3.1059W	304	
Keswick, Cumbria	KESW	England,United Kingdom	54.5886N	3.1048W	282	From 2008-09-04
Ketchikan	KCN	Alaska,U.S.A.	55.3343N	131.6325W	20	
Ketetahi	KETZ	North Island,New Zealand	39.0987S	175.6519E	1208	From 1985-05-01 to 1992-01-22
Keti	KETS	Armenia	40.8783N	43.8500E	1750	
Ketmen	KTMS	Kazakhstan	43.4460N	80.3520E	1509	From 2000-08-18
Kettenpom Peak	KKPM	California,U.S.A.	40.1458N	123.3350W	1244	
Kettle Butte	KBI	Idaho,U.S.A.	43.5907N	112.3770W	1698	From 1992-01-01
Kettleman Hills	PKEM	California,U.S.A.	36.0615N	120.1090W	288	
Ketumbeine	KETU	Tanzania,United Republic of Tanzania	2.8245S	36.2997E	1253	
Keumsan	KSKMS	Republic of Korea	36.1016N	127.4837E	171	From 2000-12-23
Keung Shan	HKLI	Hong Kong,China	22.2417N	113.8787E	100	From 1997-04-23
Keuruu	KEF	Finland	62.1672N	24.8703E	215	From 1977-08-31
Kevo	KEV1	Finland	69.7558N	27.0125E	97	
Kevo	KEV	Finland	69.7553N	27.0067E	80	From 1967-06-01
Kew	KEW	England,United Kingdom	51.4683N	0.3131W	5	
Kewanee	KEWM	Missouri,U.S.A.	36.6981N	89.5926W	85	
Key Point	KYP	California,U.S.A.	34.1018N	118.8795W	700	
Keysborough Secondary College	AUKSC	Victoria,Australia	37.9700S	145.1600E	50	From 2013-05-09
Keystone College	KSPA	Pennsylvania,U.S.A.	41.5570N	75.7681W	297	
Keyworth	KEY2	England,United Kingdom	52.8790N	1.0770W	76	
Keyworth	KEY1	England,United Kingdom	52.8779N	1.0757W	59	
Kfar Ka'horesh	HRSH	Israel	32.7000N	35.2800E	416	
KGF	KGF	Karnataka,India	12.9483N	78.2541E	876	From 1999-01-01
Kgwebe Hills	KBH1	Botswana	20.7020S	23.0510E	1042	From 2001-01-01 to 2100-12-31
Khabarovsk	KHBR	Khabarovskiy Kray,Russia	48.4740N	135.0560E	81	From 2006-05-17
Khabarovsk	HABR	Khabarovskiy Kray,Russia	48.4730N	135.0510E	81	From 2005-04-01
Khabaz	KBZ	Stavropol'skiy Kray,Russia	43.7286N	42.8975E		
Khafra	HKFR	Egypt	22.5891N	31.3047E	340	
Khaishi	KHS	Georgia,Georgia	42.9427N	42.1893E	644	From 1967-01-01
Khait	KHAT	Tajikistan	39.1700N	70.8800E	1800	
khalkal	ADB	Iran	37.3700N	48.2000E	1576	
Khamasin	KMSA	Saudi Arabia	20.3710N	44.4950E	715	From 1988-11-01
Khamis Mushayt	KMTA	Saudi Arabia	18.1660N	42.8650E	2000	
Khamis Mushayt	KMTU	Saudi Arabia	18.1660N	42.8650E	2000	From 1990-06-13
Khanabri	KHS1	Pakistan	35.6630N	73.9450E	1818	From 2007-09-01
Khanabri-I	KHB1	Pakistan	35.5740N	73.8520E	1222	From 2007-09-01
Khancoban	KHA	New South Wales,Australia	36.2136S	148.1290E	435	From 1968-09-06
Khandyga	KHG	Sakha,Russia	62.6500N	135.5500E	105	
Khani	KHNS	Amurskaya Oblast',Russia	57.0400N	121.0100E	390	From 1967-01-01 to 2005-01-01
Khani	KHN	Sakha,Russia	56.9211N	119.7892E	690	From 2005-12-01
Khani	KHNR	Sakha,Russia	56.9210N	119.9790E	690	From 2005-12-11
Khanty-Mansiysk	HMA	Khanty-Mansi Autonomous Okrug,Russia	61.0333N	69.1167E	91	
Khaolaem Dam	KHLT	Thailand	14.7970N	98.5893E	164	
Khao Laem Dam	KHT	Thailand	14.7848N	98.5925E	173	From 1982-10-01
Khapcheranga	KPC	Buryatiya,Russia	49.7039N	112.3789E	953	
Kharagpur	ITKG	West Bengal,India	22.3191N	87.3707E	40	From 2012-01-01
Kharino, NSO, Russia	KHAR	Novosibirskaya Oblast',Russia	54.6132N	83.5897E	130	From 2011-10-09
Kharkheh	IKAR	Iran	32.4833N	48.1543E	0	From 1998-01-01
Kharsali	KSLI	Himachal Pradesh,India	30.9745N	78.4395E	2555	From 2007-05-01
Khatum	KTMO	Oman	23.4841N	57.6854E	85	From 1998-07-13
Khatystyr	KHY	Amurskaya Oblast',Russia	55.7000N	121.5000E	470	
Khaybar	KBRS	Saudi Arabia	25.7886N	39.2644E	200	
Kheis	KHE	Arkhangel'skaya Oblast',Russia	80.6167N	58.0500E	21	
Khelvachauri	KHEL	Georgia,Georgia	41.5742N	41.6963E	32	From 2003-01-01
Khenifra	KHF	Morocco	32.9830N	5.7070W	1060	
Khetri	KHET	Rajasthan,India	28.0740N	75.8063E	330	From 2001-08-01
Khezeriat	SKHZ	Iran	30.9498N	48.5347E	6	From 2010-08-11
Khinaliq	XNQ	Azerbaijan	41.1720N	48.1400E	1985	From 2010-11-10
Khiner	KHI1	Pakistan	35.4360N	74.1510E	1240	From 2007-09-01
Khingansk	KNGS	Yevreyskaya Avtonomnaya Oblast',Russia	49.1220N	131.1920E	520	From 1979-08-12 to 1984-04-30
Khios Island	XIO	Greece	38.2567N	26.0408E	210	From 1997-01-01
Khitrov Hills	KHIT	Alaska,U.S.A.	60.4432N	143.2490W	1101	
Khnkoyan	XYB	Armenia	40.8350N	44.0200E	1780	
Khodutka, Kamchatskaya Oblast',Russia	KDTR	Kamchatskaya Oblast',Russia	51.8090N	158.0770E	40	From 2011-09-09
Khodzhikent	KDK	Uzbekistan	41.6167N	69.9667E		
Kholmsk	KHLM	Sakhalinskaya Oblast',Russia	47.0550N	142.0520E	45	From 2008-10-10
Khomeyn	KHMZ	Iran	33.7390N	49.9590E	1985	From 2009-01-12
Khomkaen	KHON	Thailand	16.3378N	102.8230E	134	
Khong Chiam	UBPT	Thailand	15.2800N	105.4700E	120	From 2008-01-01
Khon Kaen	KKTK	Thailand	16.3370N	102.8230E	140	From 2001-01-01
Khonsa	KOI	Arunachal Pradesh,India	26.9833N	95.5000E	785	From 1979-01-01
Khor El Raml	AKRL	Egypt	23.6634N	32.7211E	205	
Khorog	KHO	Tajikistan	37.4833N	71.5333E	2199	
Khorongon	KHR	Tajikistan	38.6667N	68.7833E		
Khor Sakr	AKSR	Egypt	23.6372N	33.0208E		
Khovu-Aksy	HVS	Krasnoyarskiy Kray,Russia	51.1358N	93.7022E	1075	From 2007-04-25
Khrisi	XRY	Crete,Greece	34.8748N	25.6943E	21	
Khumson	KHUM	Tajikistan	41.6800N	69.9500E	850	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Khunzakh	XNZR	Dagestan,Russia	42.5417N	46.7050E	1640	
Khuramsha	HRMR	Buryatiya,Russia	51.6280N	106.9550E	620	From 1997-04-01
Khuzdar	KHUZ	Pakistan	27.7800N	66.6000E	1244	From 2007-11-10
Khvani	KHVA	Georgia,Georgia	42.1902N	43.5236E	829	From 2007-10-03
Kiagna River	KIAG	Alaska,U.S.A.	60.9236N	142.3587W	1773	
Kiajanaja	KJA	Guatemala	15.7398N	91.7827W	2280	From 1980-10-01 to 1999-08-25
Kiara Terrace	KIA	Pakistan	34.1133N	72.7133E	497	
Kiasar	IKIA	Iran	36.2070N	53.6837E	2167	From 2000-08-01
Kibati	KBTI	Democratic Republic of the Congo	1.5690S	29.2770E	2000	
Kibaya	KIBA	Tanzania,United Republic of Tanzania	5.3052S	36.5743E	1520	
Kibumba	KBBA	Democratic Republic of the Congo	1.5190S	29.3328E	2029	
Kibwezi	KIBK	Kenya	2.3400S	38.0460E	775	From 1996-06-01
Kidapawan	KCP	Mindanao,Philippines	7.0090N	125.0900E	598	
Kidman Hollow	KDUT	Utah,U.S.A.	41.7213N	112.0290W	1829	From 1978-10-01
Kiev	KIEV	Ukraine	50.6944N	29.2083E	123	
Kiffisia	KIF1	Greece	38.0773N	23.8146E	307	From 2012-09-01
Kigali	KIG	Rwanda	1.9634S	30.0633E	1545	From 2008-10-09
Kigoma	KGMA	Tanzania,United Republic of Tanzania	4.8782S	29.6337E	820	
Kiinagashima	JKN	Mie,Japan	34.2483N	136.2633E	90	
Kijevo	KIJV	Croatia	44.0050N	16.4050E	413	From 2004-04-07
Kijyo	JKJ	Miyazaki,Japan	32.2483N	131.4150E	380	
Kikaishima	JZK	Ryukyu Islands,Japan	28.3145N	129.9720E	130	
Kika Raxquin	KIK	Guatemala	14.8130N	91.4105W	3200	From 1980-10-01
Kilembe	KIL	Uganda	0.2000N	30.0080E	1372	From 1991-07-01
Kilenge	KCM	New Britain,Papua New Guinea	5.4833S	148.3830E	15	From 1975-03-01 to 1980-09-05
Kilima Mbogo	KMBO	Kenya	1.1268S	37.2523E	1940	
Killari	KLRI	Andhra Pradesh,India	18.0693N	76.5977E	614	From 2009-09-10
Killbear Provincial Park	KLBO	Ontario,Canada	45.3566N	80.2132W	177	From 2009-05-19
Kilmashogue	DKM	Ireland	53.2553N	6.2644W	280	From 1976-11-01 to 2002-01-06
Kilpisjarvi	KIF	Finland	69.0044N	20.8018E	0	
Kilyos	KLYT	Turkey	41.2530N	29.0420E	30	From 2002-01-01
Kim	S26A	Colorado,U.S.A.	37.6216N	103.4711W	1394	From 2008-12-06 to 2010-11-07
Kimball Elementary School	KIMB	Washington,U.S.A.	47.5752N	122.3016W	100	
Kimball Pass	KMP	Alaska,U.S.A.	61.5143N	145.0300W	1103	From 1977-08-04
Kimbe	BULU	New Britain,Papua New Guinea	5.5345S	150.3159E	25	From 2013-02-24
Kimbe	KMBE	New Britain,Papua New Guinea	5.5590S	150.1530E	10	
Kimbe	KMB	New Britain,Papua New Guinea	5.4833S	150.1000E	23	From 1969-11-22 to 1999-08-25
Kimberley	KIM	Orange Free State,South Africa	28.7517S	24.7800E	1321	
Kinaliada	KNAL	Turkey	40.9035N	29.0458E	8	From 2012-05-18
Kincaid Ranch	HKRM	California,U.S.A.	36.9017N	121.4260W	66	From 1975-07-03
Kincaid Ranch, Fort Stockton	428A	Texas,U.S.A.	30.7263N	102.6847W	982	From 2008-03-10 to 2010-02-13
Kincumber High School	AUKHS	New South Wales,Australia	33.4600S	151.3800E	27	From 2013-05-22
Kindia	KING	Guinea	9.9638N	12.8685W	410	From 1991-07-01
King	U56A	North Carolina,U.S.A.	36.3472N	80.3829W	363	From 2013-04-24
King County	TKCO	Washington,U.S.A.	47.5369N	122.3004W	0	
King Edward Point	KEP	South Georgia Islands	54.2800S	36.4800W		From 1972-03-01 to 1999-08-25
King George, VA	R59A	Virginia,U.S.A.	38.2000N	77.1164W	35	From 2013-04-18
Kingman	KG-	Arizona,U.S.A.	35.6417N	113.9078W	1067	From 1963-04-19 to 1963-07-11
Kingman	KG-AZ	Arizona,U.S.A.	35.6417N	113.9078W	1067	From 1963-04-19 to 1963-07-11
Kingman	KG-AS	Arizona,U.S.A.	35.6417N	113.9078W	1067	
King Ranch	KRC	California,U.S.A.	35.3267N	119.7450W	680	
Kingsbay	KBS	Svalbard,Norway	78.9256N	11.9417E	74	From 1994-11-05
Kingsbury	G63A	Maine,U.S.A.	45.1147N	69.6186W	363	From 2013-09-22
Kingscourt	DMU	Ireland	53.8989N	6.9106W	280	From 1976-11-01
Kingscourt	DMUB	Ireland	53.9000N	6.9086W	280	From 1994-04-11
Kings Mountain	KMOR	Oregon,U.S.A.	45.6355N	123.4900W	975	From 1982-09-01
Kings Mountain, Blacksburg	KMSC	South Carolina,U.S.A.	35.1420N	81.3333W	240	From 2008-10-13
Kings Tableland	KTLM	New South Wales,Australia	33.8621S	150.4042E	720	
Kingston	KGNO	Ontario,Canada	44.2272N	76.4934W	89	
Kingston	KIN	Jamaica	17.9737N	76.7851W	32	From 1937-01-01 to 1978-12-09
Kingsville	KVTX	Texas,U.S.A.	27.5459N	97.8929W	14	
Kingsville	L50A	Ontario,Canada	42.0430N	82.8095W	187	From 2012-12-09
Kinkasan	KSN	Miyagi,Japan	38.2717N	141.5883E		
Kinmen	KNM	Taiwan region	24.4167N	118.4333E	13	
Kinomoto	KNJ	Wakayama,Japan	34.2623N	135.1250E	20	From 1965-06-02 to 1965-11-30
Kinomoto	KMT	Wakayama,Japan	34.2623N	135.1250E	20	From 1965-06-02 to 1965-11-30
Kiomboi	KIOM	Tanzania,United Republic of Tanzania	3.5833S	34.4722E	1487	
Kipapa	KIP	Hawaii,U.S.A.	21.4233N	158.0140W	73	
Kipawa	MLQ1	Quebec,Canada	46.8036N	78.9873W	299	
Kipourio	KPRO	Greece	39.9549N	21.3632E	837	From 2011-03-30
Kipp Ranch, Antelope Well	320A	New Mexico,U.S.A.	31.3369N	108.5284W	1414	From 2008-02-16 to 2010-01-19
Kipuka Nene	KNH	Hawaii,U.S.A.	19.3350N	155.2900W	924	From 1967-09-21
Kiractepe	KRCT	Turkey	41.0814N	32.8792E	1449	From 1993-07-01 to 1994-06-30
Kirbyville	440A	Texas,U.S.A.	30.7456N	93.9587W	59	From 2010-05-22 to 2011-12-07
Kirchzarten	KIZ	Baden-Wurttemberg,Germany	47.9562N	7.9182E	445	From 1987-01-01
Kirikhan	KRH	Turkey	36.4922N	36.3466E	220	From 1979-12-01 to 1999-08-25
KIRIKKALE	DELI	Turkey	39.9979N	33.9204E	1169	From 2013-01-15
Kiri Road	TKEZ	North Island,New Zealand	39.3877S	174.0077E	330	From 1993-12-14 to 1996-04-01
Kirishev	KIRR	Kamchatskaya Oblast',Russia	55.9530N	160.3420E	1475	From 2006-08-01
Kirishima Volcano	KV01	Kagoshima,Japan	31.9447N	130.8478E	1215	
Kiritimati	XMAS	Kiribati	2.0448N	157.4453W	1	
K¯–rka- Seyitgazi ESKISEHIR	AUKIR	Turkey	39.2772N	30.5308E	1088	From 2010-06-20
Kirkby Lonsdale	LKL	England,United Kingdom	54.2185N	2.5345W	396	From 1989-01-01 to 1992-10-14
Kirkenes	KRK	Norway	69.7242N	30.0625E	25	
Kirkland Lake	KLO	Ontario,Canada	48.2060N	79.9950W	350	
Kirkland Lake	KLC	Ontario,Canada	48.1447N	80.0292W	310	
Kirkland Lake	KILO	Ontario,Canada	48.4970N	79.7233W	322	
K¯–rklareli	KIRK	Turkey	41.7817N	27.0972E	258	From 2013-02-09
K¯–rklareli/Merkez-Arma¯an	ARMN	Turkey	41.8639N	27.4289E	406	From 2014-11-28
K¯–rklareli/Vize-Akp¯–nar	VIZE	Turkey	41.5785N	27.8400E	345	From 2014-11-28
Kirk Michael	IOMK	Isle of Man	54.2605N	4.5662W	188	From 2012-02-09
Kirksville	O39A	Missouri,U.S.A.	40.2544N	92.5438W	282	From 2010-12-08 to 2012-09-27
Kirkuk	IKRK	Iraq	35.4000N	44.3400E	331	From 2009-01-01
Kirkwood Meadows Resort, Kirkwood	R05C	California,U.S.A.	38.7028N	120.0755W	2366	From 2005-08-05 to 2007-10-05
Kirov	KIRV	Kirovskaya Oblast',Russia	58.5850N	49.4158E	0	
Kirovokan	KIRO	Armenia	40.7867N	44.4917E	1400	
Kirovskiy	KROS	Amurskaya Oblast',Russia	54.4330N	126.9710E	455	
K¯–r¯ehir-Merkez	KIRS	Turkey	39.1329N	33.9168E	981	From 2013-03-02
Kiruna	KIR	Sweden	67.8400N	20.4167E	390	
Kishima-dake	KISK	Kumamoto,Japan	32.8926N	131.0669E	1105	
Kishinev	KIS	Moldova	46.9980N	28.8180E	185	
Kishinomiya	KISE	Wakayama,Japan	34.2220N	135.3000E	75	
Kishtwar	KSHWR	Jammu and Kashmir	33.3118N	75.7773E	1780	
Kislovodsk	KIV	Stavropol'skiy Kray,Russia	43.9553N	42.6863E	1054	
Kislovodsk Array Beam Reference Point	KVAR	Stavropol'skiy Kray,Russia	43.9557N	42.6952E	1196	
Kislovodsk Array Site 0	KIV0	Stavropol'skiy Kray,Russia	43.9557N	42.6952E	1196	
Kislovodsk Array Site 1	KIV1	Stavropol'skiy Kray,Russia	43.9570N	42.6946E	1196	
Kislovodsk Array Site 2	KIV2	Stavropol'skiy Kray,Russia	43.9554N	42.6970E	1196	
Kislovodsk Array Site 3	KIV3	Stavropol'skiy Kray,Russia	43.9547N	42.6939E	1196	
Kissamos	KIS1	Crete,Greece	35.4940N	23.6590E	15	From 2011-10-01
Kitadaitoujima	JKDJ	Ryukyu Islands,Japan	25.9496N	131.2969E	41	From 2013-07-01
Kitadake	KITD	Kagoshima,Japan	31.5992N	130.6461E	450	
Kita-Gairin	NRMH	Iburi,Japan	42.5479N	140.8392E	484	
Kitakami	KGJ	Iwate,Japan	39.3883N	141.5650E	376	
Kitakata	JKIT	Miyazaki,Japan	32.6245N	131.4535E	180	From 1997-03-01
Kitausu	KITH	Iburi,Japan	42.5239N	140.8104E	120	
Kite	155A	Georgia,U.S.A.	32.6219N	82.4665W	93	From 2012-03-21
Kithairon Oros	MKIT	Greece	38.1842N	23.2599E	1406	
Kithira	KYTH	Greece	36.2652N	23.0468E	465	
Kitimat	KITB	British Columbia,Canada	54.0779N	128.6369W	12	From 2014-03-20
Kitsap County Moderate Risk Waste Facility	KIMR	Washington,U.S.A.	47.5031N	122.7672W	100	
Kitsap County North Road Shed	KINR	Washington,U.S.A.	47.7517N	122.6431W	100	
Kitsap County Wastewater Treatment Plant	KITP	Washington,U.S.A.	47.6750N	122.6297W	100	
Kitwe	KTWE	Zambia	12.8140S	28.2090E	1227	
Kiyosumi	KIY	Chiba,Japan	35.1500N	140.1830E	290	
Kiyosumi	KYS	Chiba,Japan	35.1977N	140.1480E	180	From 1966-04-01
Kizel	KIZR	Permskiy Kray,Russia	59.0497N	57.6555E	296	From 1999-01-01 to 2003-10-22
Kizilcal	KIZT	Turkey	38.8800N	31.8800E	1202	
Kizimen	KZV	Kamchatskaya Oblast',Russia	55.1130N	160.2940E	1509	From 2009-11-10

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Kizyl-Arvat	KAT	Turkmenistan	39.0280N	56.2700E	200	
Klagenfurt	KFA	Austria	46.6483N	14.3278E	450	
Klamath Falls	L04D	Oregon,U.S.A.	42.2180N	122.3046W	1437	From 2010-07-30
Klamath Falls	KFO	Oregon,U.S.A.	42.2667N	121.7450W	1439	From 1962-01-01
Klamath Falls	L04A	Oregon,U.S.A.	42.1750N	121.8910W	1336	From 2006-05-24 to 2007-10-26
Klamath Falls	KFAL	Oregon,U.S.A.	42.2577N	121.7851W	1326	
Klaveano Farm, Fernwood	D11A	Idaho,U.S.A.	47.0477N	116.3353W	849	From 2006-11-11 to 2008-06-07
Klein Altendorf	BA10	Nordrhein-Westfalen,Germany	50.6131N	6.9945E	186	From 2006-10-01
Kleinbodungen	KBDG	Thuringen,Germany	51.3334N	10.8669E	425	From 2008-06-18 to 2012-02-17
Klepka	KLEP	Magadanskaya Oblast',Russia	59.7511N	151.4910E	78	From 2009-12-28 to 2010-03-02
Klimovskoe	KLMR	Arkhangel'skaya Oblast',Russia	60.8539N	39.5186E	157	From 2003-11-25
Klindworth Farms, Hogeland	A19A	Montana,U.S.A.	48.9286N	108.7429W	971	From 2008-08-27 to 2010-07-20
Klokotos Trikala	THL	Thessaly,Greece	39.5647N	22.0145E	107	From 2006-09-22
Kloof	KLOF	South Africa	26.3498S	27.6100E	1631	From 2006-08-16
Kluane	KEY	Yukon Territory,Canada	61.0500N	138.5020W	785	From 1979-03-09 to 1981-07-25
Kluang	KGM	Peninsular Malaysia,Malaysia	2.0157N	103.3190E	103	
Klutina	KLU	Alaska,U.S.A.	61.4928N	145.9200W	1012	From 1972-08-09
Klyuchi	KLY	Kamchatskaya Oblast',Russia	56.3130N	160.6520E	100	
Knez@19ji Dol	KNDS	Slovenia	45.5279N	14.3806E	1024	From 2004-01-01
Knife Ck. Glacier	KCG	Alaska,U.S.A.	58.3076N	155.1114W	762	
Knight Island	KNIM	Alaska,U.S.A.	60.3487N	147.7360W	434	
Knik Glacier	KNK	Alaska,U.S.A.	61.4125N	148.4560W	595	
Knox Farm, Ray	B25A	North Dakota,U.S.A.	48.2716N	103.1613W	705	From 2009-07-28 to 2011-07-24
Knox Ranch	KNO	California,U.S.A.	35.4833N	118.5280W	1090	From 1952-07-01 to 1952-11-10
Knoxville	HPKT	Tennessee,U.S.A.	35.9260N	83.8790W	305	From 1980-03-25 to 1991-04-01
Kobayashi Ranch	KBY	California,U.S.A.	33.0402N	115.7010W	-51	From 1975-02-01 to 1976-05-31
Kobdi	AY1S	Sakha,Russia	64.2000N	145.5100E	800	From 1971-06-08 to 1971-12-31
Kobe	KOB	Hyogo,Japan	34.6883N	135.1800E	58	
Kobe	KBE	Hyogo,Japan	34.7345N	135.1778E	440	
Kobuan	KOA	Bougainville,Papua New Guinea	6.2241S	155.6190E	65	From 1969-12-07 to 1972-11-30
Kobugahara	KBH	Tochigi,Japan	36.6550N	139.5286E	700	
Kocaeli-Kandira	KAND	Turkey	41.0943N	30.1922E	75	From 2010-11-25
Kochi	KOC	Kochi,Japan	33.5533N	133.5370E	-1	
Kochiharuno	JKHR	Kochi,Japan	33.5100N	133.4988E	26	From 2012-11-01
Kodaikanal	KOD	Tamil Nadu,India	10.2333N	77.4667E	2345	From 1910-01-01
Kodera	KDT	Japan	34.9183N	134.7127E	200	From 1970-10-01 to 1972-06-01
Kodiak	KD1	Alaska,U.S.A.	57.7467N	152.4920W		From 1964-04-21 to 1964-05-10
Kodiak	KD2	Alaska,U.S.A.	57.7583N	152.4930W		From 1964-04-10 to 1964-05-03
Kodiak	KD3	Alaska,U.S.A.	57.7483N	152.5150W		From 1964-05-14 to 1964-08-17
Kodiak Island	KDAK	Alaska,U.S.A.	57.7828N	152.5835W	64	
Kodiak Island	KDC	Alaska,U.S.A.	57.7478N	152.4920W	13	From 1964-04-02 to 2004-04-03
Kodinsk	KDN	Krasnoyarskiy Kray,Russia	58.5910N	99.1920E	296	From 2007-09-28
Koelnbreinsperre	KBA	Austria	47.0784N	13.3447E	1721	From 1981-11-01
Koeppel	KOE	Rheinland-Pfalz,Germany	50.4253N	7.7317E	540	
Koester Ranch, Padroni	N26A	Colorado,U.S.A.	40.8289N	103.2221W	1284	From 2008-12-08 to 2010-10-11
Koforidua	KOGH	Ghana	6.0842N	0.2431W	483	From 1987-01-01
Kofu	KFU	Yamanashi,Japan	35.7426N	138.5683E	590	
Kofu	KOF	Yamanashi,Japan	35.6650N	138.5567E	274	
Kog	KOGS	Slovenia	46.4481N	16.2503E	240	From 2004-03-01
Kogok River	KGR	Alaska,U.S.A.	63.1692N	162.0667W	320	
Kohala	KOH	Hawaii,U.S.A.	20.1282N	155.7800W	1166	
Kohestak	KHSK	Iran	26.7568N	57.0528E	40	From 2010-04-30
KOHEUNG	KOHB	Republic of Korea	34.6184N	127.2758E	68	From 2009-09-24
Koh Gabri	KHGB	Iran	30.3755N	56.4768E	2057	From 2010-05-05
Kohima	KHM	Nagaland,India	25.6631N	94.0761E	1630	From 1979-01-01
KOHIMA	KOHI	Nagaland,India	25.7203N	94.1081E	1353	From 2011-05-01
Kohlern	KOSI	Italy	46.4630N	11.3778E	1604	From 2006-12-13
Kohler Place, Littleton	P24A	Colorado,U.S.A.	39.5144N	104.9082W	1861	From 2008-06-10 to 2010-05-05
Kohls Ranch	KH-AZ	Arizona,U.S.A.	34.4833N	111.0342W	2286	From 1964-04-02 to 1964-06-18
Kohls Ranch	KH-	Arizona,U.S.A.	34.4833N	111.0342W	2286	From 1964-04-02 to 1964-06-18
Kohzaman	HKZM	Iran	35.3775N	48.9045E	2334	From 2011-04-01
Koide	K12	Iwate,Japan	39.4575N	141.4989E	534	
Koidern River	KRY	Yukon Territory,Canada	61.9700N	140.4080W	686	
Koike	KOID	Kagoshima,Japan	31.5872N	130.6128E	40	
Kokohu	KNZ	North Island,New Zealand	39.0217S	177.6737E	32	From 1998-10-19
Kokoji	K04	Iwate,Japan	39.3611N	141.5192E	477	
Kokpek	KPKS	Kazakhstan	43.4660N	78.6840E	1137	From 2004-06-09
Kokstad	KSD	Cape Province,South Africa	30.5410S	29.4167E	1350	From 1993-03-01
Kolacno	KOLL	Slovakia	48.5787N	18.4024E	290	From 2002-12-01
Kolahrood	IKLH	Iran	33.3190N	51.5787E	2280	From 2000-09-01
Kolaka, Sulawesi	KKSI	Sulawesi,Indonesia	4.1718S	121.6513E	89	From 2008-12-01
Kolanjah	KLNJ	Iran	31.0084N	51.5921E	2950	From 2011-04-01
Kolari	KLF	Finland	67.2347N	23.9640E	208	From 2014-11-11
Kolasin	KOME	Montenegro	42.8505N	19.5152E	1030	From 2011-07-26
Kolay	KOL	Turkey	41.4243N	35.7961E	145	From 1976-09-01
Koldanda	KOLN	Nepal	27.7700N	83.6000E	1830	From 1994-04-01
KOLHAPUR, MAHARASTRA	KOLH	Maharashtra,India	16.8338N	74.2813E	563	From 2002-07-02
Koln Dom Grabung	BA19	Nordrhein-Westfalen,Germany	50.9412N	6.9577E	48	From 2006-10-01
K˜¶ln Uni	BA26	Nordrhein-Westfalen,Germany	50.9261N	6.9329E	47	From 2013-05-11
Koln University	BA07	Nordrhein-Westfalen,Germany	50.9259N	6.9243E	50	From 2006-10-01 to 2012-08-01
Kolonicke sedlo	KOLS	Slovakia	48.9333N	22.2731E	460	From 2004-09-01
Komaba	KOM	Saitama,Japan	35.6500N	139.7630E	38	
Komagane	KGN	Yamanashi,Japan	35.7518N	137.9719E	629	
Komaggas	KOMG	Cape Province,South Africa	29.7970S	17.4837E	299	
Komakuk Beach	KBT	Yukon Territory,Canada	69.5937N	140.1820W	15	From 1981-08-08
Komarou	KOMA	Tajikistan	39.1000N	70.4000E		
Komasi	IKOM	Iran	34.1745N	47.5102E	1502	From 2004-01-01
Komatsu	KMJD	Ishikawa,Japan	36.3645N	136.5057E	70	
Komatsu	KMD	Ishikawa,Japan	36.3135N	136.4916E	70	
Komgaron	KMGR	Severo-Osetinskaya,Russia	43.0572N	44.8659E	740	From 2010-08-07
Komotini	KMT1	Greece	41.1159N	25.4067E	52	From 2011-12-15
Kompina	KMC	Cameroon	4.3861N	9.5781E	85	From 1984-12-14
Komsomolabad	KOMS	Tajikistan	38.9000N	69.9500E		
Komsomolskaya	KMSR	Severo-Osetinskaya,Russia	43.3708N	44.2924E	348	From 2005-08-11
Konawaena	KNW	Hawaii,U.S.A.	19.5133N	155.9180W	495	From 1922-01-01 to 1960-12-31
Kondoa	KOND	Tanzania,United Republic of Tanzania	4.9088S	35.7908E	1357	
Konedobu	KDB	Papua New Guinea	9.4717S	147.1600E	40	From 1968-01-01
Kongan	KGNI	Nagaland,India	26.7558N	94.8383E	500	
Kongsberg	KON	Norway	59.6491N	9.5982E	216	
Kongsberg	KONO	Norway	59.6491N	9.5982E	216	From 1991-06-28
Konigsberg	KNG	Kaliningradskaya Oblast',Russia	54.8333N	20.5000E	33	
Konitsa	KNS	Greece	40.0596N	20.7592E	1090	From 2008-02-28
Konitsa	KNS1	Greece	40.0480N	20.7524E	618	From 2010-10-01
Konogogo	EKN	New Ireland,Papua New Guinea	3.4888S	152.1850E	270	
Konpirayama	KONH	Iburi,Japan	42.5541N	140.8168E	230	
Konsvik	STOK1	Norway	66.5000N	13.1200E	36	From 2005-07-01
Konsvik	KONS	Norway	66.4992N	13.1193E	36	From 2005-07-01
Konya/Alt˜–ntekin	ALIN	Turkey	38.2985N	32.8785E	1073	From 2014-12-01
KONYA_Doganhisar	DOGA	Turkey	38.1058N	31.6682E	1452	From 2011-10-04
Konya-Eregli	KERG	Turkey	37.4146N	34.1250E	1365	From 2010-11-10
Konya-Kulu	KKUL	Turkey	39.1713N	32.9173E	1178	From 2010-11-11
Konya-Meram	KMER	Turkey	37.7685N	32.3680E	1231	From 2010-11-11
Konya/Seydi˜ehir-Tara˜^§˜–	SEDI	Turkey	37.4511N	31.7549E	1255	From 2014-12-01
Konya--Tatoy	KONT	Turkey	37.9453N	32.3605E	550	
Koohdasht(Tabas)	TKDS	Iran	33.6134N	57.1221E	1222	From 2011-08-01
Kookooligit Mountain	KKLA	Alaska,U.S.A.	63.5888N	170.3755W	655	From 1980-07-01
Kooshah	IKOO	Iran	32.4241N	59.0044E	2245	From 2005-12-01
Kootwijk	NE32	Netherlands	52.1790N	5.8120E	40	
Kopaniny	KOCW	Czech Republic	50.2652N	12.2336E	575	From 1994-01-01
Kop Dagi	KOPT	Turkey	40.0179N	40.4972E	2489	From 2006-09-18
Kophill	SKP1	England,United Kingdom	51.7218N	0.8096W	212	From 1993-01-01
Koprukoy-ERZURUM	KOPR	Turkey	39.9916N	41.8534E	1675	From 2012-11-28
Kopyto	KPT	Kamchatskaya Oblast',Russia	55.9661N	160.2219E	1004	
Kora	KORR	Severo-Osetinskaya,Russia	43.0861N	44.0677E	621	From 2005-11-03
Korca	KBN	Albania	40.6236N	20.7874E	870	
Korea Array	KSRS	Republic of Korea	37.4540N	127.9230E		
Korhogo	LKO	Ivory Coast	9.5444N	5.5889W	435	From 1989-06-01
Korinthos	KOR2	Greece	37.9401N	22.9494E	31	From 2012-09-01
Korintji-Dempo	KKD	Sumatera,Indonesia	3.7000S	102.9330E		

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Korkueli	KORT	Turkey	37.0007N	30.3503E	1304	From 2008-03-06
Korkuteli	KORK	Turkey,Turkey	37.0007N	30.3503E	1304	
Koro	KRO	Fiji	17.3141S	179.3920E	522	From 1981-11-01
Korolevo	KORU	Ukraine	48.1573N	23.1339E	150	From 1998-07-15
Koror	KOR	Caroline Islands,Palau	7.3350N	134.4850E	30	From 1950-01-01 to 1958-12-31
Korovin Flat Point	KOFP	North America,U.S.A.	52.2751N	174.0972W	662	
Korovin Northeast	KONE	Alaska,U.S.A.	52.3936N	174.1193W	253	
Korovin Northwest	KONW	Alaska,U.S.A.	52.3980N	174.2080W	334	
Korovin Southeast	KOSE	Alaska,U.S.A.	52.3450N	174.0500W	625	
Korovin Volcano	KOKV	Alaska,U.S.A.	52.3610N	174.1640W	776	
Korovin West	KOWE	Alaska,U.S.A.	52.3657N	174.2507W	527	
Kortright Cn Earth Rangers Ctr, Woodbridge	I53A	Ontario,Canada	43.8238N	79.5912W	195	From 2012-11-28
Koryaka	KOK	Kamchatskaya Oblast',Russia	53.2919N	158.6361E	1050	
Koryakskii	KRER	Kamchatskaya Oblast',Russia	53.3040N	158.7490E	1847	From 2009-01-15
Kosan Boka	KIC	Ivory Coast	6.3606N	4.7411W	176	From 1967-06-01
Koshkarbay	KOSH	Kazakhstan	53.0300N	69.0600E	330	From 1972-12-01 to 1975-04-01
Kos Island	KOSK	Crete,Greece	36.7516N	26.9785E	7	From 2012-05-10
Kosmodemyansk	KOS	Sakhalinskaya Oblast',Russia	44.1000N	145.8830E		
Kosmos	KOSW	Washington,U.S.A.	46.4613N	122.1910W	828	
Kosov	KSV	Ukraine	48.3150N	25.0667E	450	
Kosovska,, Mitrovica	KMIS	Serbia	42.9179N	20.8377E	0	From 2008-01-01
Koster	KSR	Transvaal,South Africa	25.8517S	26.8972E	1623	
Kota Agung	KASI	Sumatera,Indonesia	5.5236S	104.4967E	0	From 2007-12-01
Kotabaru	KBKI	Borneo,Indonesia	3.2995S	116.1670E	0	From 2007-12-01
Kotabumi	KLI	Sumatera,Indonesia	4.8630S	104.8567E	32	
Kotacane, Aceh	KCSI	Sumatera,Indonesia	3.5220N	97.7715E	204	From 2008-12-01
Kota Kinabalu	KKM	Sabah,Malaysia	6.0443N	116.2147E	830	
Kota Tinggi	MYKOM	Peninsular Malaysia,Malaysia	1.7900N	103.8500E	0	From 2006-03-24
Kothagudem	KGD	Andhra Pradesh,India	17.5767N	80.6571E	0	
Kothi	KOTI	Himachal Pradesh,India	32.3077N	77.2000E	2527	From 1985-08-01
Kotkhai	KKHI	Himachal Pradesh,India	31.1015N	77.5814E	2240	From 2007-05-01
Kotohata	K07	Iwate,Japan	39.4164N	141.6564E	554	
Kotokel	KELR	Buryatiya,Russia	52.7600N	108.0800E	460	From 2005-11-03
Kottamaia	KEG	Egypt	29.9275N	31.8292E	460	From 1991-01-01
Kottamia	KOT	Egypt	29.9276N	31.8292E	507	
Kotyrbulak	KOTS	Kazakhstan	43.2340N	77.1120E	1630	From 1996-09-01
Kotzebue	KTA	Alaska,U.S.A.	66.8500N	162.6100W	26	From 1976-08-01
Koumac	KOU	New Caledonia	20.5619S	164.2810E	17	
Koumac, New Caledonia	KOUNC	New Caledonia	20.5507S	164.2861E	88	From 2011-03-17
Koumaradei	KOUM	Greece	37.7041N	26.8377E	340	
Kourou	KOG	French Guiana,France	5.2070N	52.7320W	10	
Koussour	KSU	Djibouti	11.5335N	42.4463E	370	From 1975-11-01
Kouya	JWY	Wakayama,Japan	34.2183N	135.5930E	795	
Kovokta	KVO	Buryatiya,Russia	56.1400N	113.0500E	1280	
Kowa	KOWA	Mali	14.4967N	4.0167W	280	
Kowarra	KOWM	Victoria,Australia	35.7885S	144.5201E	102	
Kowen Forest	KOW	Australian Capital Territory,Australia	35.2883S	149.2980E	792	
Koyama	KOY	Shizuoka,Japan	35.3500N	138.9830E		
Koyna Nagar	KNI	Maharashtra,India	17.3967N	73.7500E	630	From 1963-10-11 to 1999-08-25
Kozaga	JWZ	Wakayama,Japan	33.5305N	135.7148E	230	
Kozan	KOZT	Turkey	37.4805N	35.8267E	381	From 2005-08-25
Kozan	KOZTB	Turkey	37.4360N	35.8180E	150	From 1993-03-01
Kozani	KZN	Greece	40.3067N	21.7708E	900	
Kozani	KOZ2	Greece	40.3052N	21.7838E	745	From 2011-04-01
Kozel'skiy	KZL	Kamchatskaya Oblast',Russia	53.2010N	158.8940E	950	
Kozjak Brana	KOZJ	FYR Macedonia	41.8778N	21.1950E	533	From 2004-01-01
Kozu shima	JKO	Bonin Islands,Japan	34.1867N	139.1367E	138	
Kozyr	KOZR	Kamchatskaya Oblast',Russia	56.0660N	159.8960E	450	
Kozyr	KOZ*	Kamchatskaya Oblast',Russia	56.0660N	159.8960E		
Kozyrevsk	KOZ	Kamchatskaya Oblast',Russia	56.0580N	159.8732E	450	
K-Podol'skiy	KMPD	Ukraine	48.5630N	26.4600E	121	
Krabesse	KRAM	Morocco	31.7030N	9.3400W		
Krabi	KRAB	Thailand	8.2215N	99.1965E	58	
Krakow	KRA	Poland	50.0561N	19.9397E	223	From 1954-01-01 to 1992-04-30
Kraliky	KRLC	Czech Republic	50.0753N	16.7817E	754	From 2007-11-01
Kramer	KM-	California,U.S.A.	34.8811N	117.2567W	853	From 1963-04-01 to 1966-03-31
Kramer	KM-CL	California,U.S.A.	34.8811N	117.2567W	853	From 1963-04-01 to 1966-03-31
KRANIDI	KRND	Greece	37.3830N	23.1502E	140	From 2010-06-08
Krashen	COLK	Armenia	40.8800N	43.9650E	1860	
Kraslice	KRCW	Czech Republic	50.3316N	12.5304E	760	From 1994-01-01
KrasnayaPolyana	KPR	Krasnodarskiy Kray,Russia	43.6667N	40.2000E	450	
Krasnaya Polyana	RPOR	Krasnodarskiy Kray,Russia	43.6996N	40.2662E	600	From 2010-03-01
Krasnodar	KGUR	Krasnodarskiy Kray,Russia	45.0216N	39.0297E	66	
Krasnogorka	KRS	Kazakhstan	43.2500N	75.1667E		
Krasnovodsk	KRF	Turkmenistan	40.0130N	53.0030E	10	
Krasnoyarsk	KRAR	Krasnoyarskiy Kray,Russia	56.0120N	92.8729E	123	From 1999-12-24
Krefeld	NE39	Nordrhein-Westfalen,Germany	51.3425N	6.5375E	40	
Kremmling	O22A	Colorado,U.S.A.	40.1618N	106.5470W	2747	From 2008-06-21 to 2010-06-14
Kremsmunster	KMR	Austria	48.0565N	14.1319E	379	From 1958-01-01
Kreppuhraun	IKRE	Iceland	64.7837N	16.3828W	760	From 2006-11-01
Krestovskiy	KRSR	Kamchatskaya Oblast',Russia	56.2169N	160.5653E	1120	
Krib	KRIT	Tunisia	36.3383N	9.0748E	640	
Kristallenia	KRIS	Crete,Greece	35.1780N	25.5030E	850	
Krokottuvotn	IKVO	Iceland	65.7140N	16.8810W	572	From 2002-06-23
Krokur	IKRO	Iceland	64.0980N	21.1200W	147	From 1996-10-08
Kromhout	KROM	Cape Province,South Africa	34.1438S	24.6212E	75	
Kronoki	KRN	Kamchatskaya Oblast',Russia	54.5961N	161.1339E	50	
Krupnik	KKB	Bulgaria	41.8667N	23.0833E	434	
Krusevo	KRUS	FYR Macedonia	41.3689N	21.2488E	1015	From 2006-09-01
Krutoberegovo	KBG	Kamchatskaya Oblast',Russia	56.2550N	162.7050E	30	
Krutoberegovo 1	KBTR	Kamchatskaya Oblast',Russia	56.2081N	162.8189E	200	
Krutsinger Ranch, Parks	O28A	Nebraska,U.S.A.	40.1262N	101.7735W	1032	From 2009-05-28 to 2011-04-06
Krysuvik	IKRI	Iceland	63.8780N	22.0760W	146	From 1992-12-01
Ksara	KSA	Lebanon	33.8233N	35.8900E	920	
Ksar Es Souk	KES	Morocco	31.9950N	4.4550W	1124	From 1973-02-01 to 1976-10-31
Kshj	KSHJ	Jordan	30.2740N	36.9660E	1005	From 1995-08-01
Ksiaz	KSP	Poland	50.8428N	16.2931E	353	From 1970-01-01
KU8	KU8	Finland	66.0287N	27.9436E	270	From 2009-09-25
Kuala Lumpur	KLM	Peninsular Malaysia,Malaysia	3.1025N	101.6450E	46	
Kuala Trengganu	KTGM	Peninsular Malaysia,Malaysia	5.3280N	103.1340E	56	From 1994-01-01
Kuala Trengganu	KTMY	Peninsular Malaysia,Malaysia	5.3283N	103.1356E	33	
Kuangyinshan	TWS1	Taiwan region	25.1008N	121.4177E	60	From 1981-01-05
Kuaotunu	KUZ	North Island,New Zealand	36.7452S	175.7209E	76	From 1990-10-11
Kubaka	GOLD	Magadanskaya Oblast',Russia	63.6780N	159.9570E	726	From 2003-01-14
Kubataba	KUBR	Stavropol'skiy Kray,Russia	43.8000N	43.4097E	665	
Kuba-Taba	KBTC	Stavropol'skiy Kray,Russia	43.8166N	43.4084E	687	From 2006-11-10
Kubokawa	JKU	Kochi,Japan	33.3095N	133.0633E	340	
Kubrat	KUBB	Bulgaria	43.8024N	26.4941E	261	From 2012-11-20
Kucevo	KUBS	Serbia	44.4123N	21.6749E	389	From 2010-07-14
Kuching	KSM	Sarawak,Malaysia	1.4733N	110.3083E	66	
Kuchinoerabu	JKC	Ryukyu Islands,Japan	30.4620N	130.1957E	20	
Kuchiyama	KCY	Tokushima,Japan	33.9970N	134.1422E	260	
Kucino	KUC	Moskovskaya Oblast',Russia	55.7500N	37.9667E	155	
Kuckum	BD14	Nordrhein-Westfalen,Germany	51.0813N	6.3925E	74	From 2012-07-22
Kudamatsu	JKD	Yamaguchi,Japan	34.0540N	131.8738E	220	
Kudat	KDM	Sabah,Malaysia	6.9160N	116.8330E	3	
Kuemmerle Ranch, Upton	I24A	Wyoming,U.S.A.	43.8594N	104.6263W	1338	From 2008-10-23 to 2010-08-16
Kufra	LKFR	Libya	24.1613N	23.2122E	413	
Kufra	KFRA	Syria	35.2125N	36.7996E	650	From 1994-12-01
Kugaaruk Camp, Nunavut	KUGN	Nunavut,Canada	68.0898N	90.0616W	165	From 2007-08-18
Kugluktuk,NWT	KUKN	Northwest Territories,Canada	67.8226N	115.0899W	320	From 2010-07-21
Kujiedanarisawa	JKEN	Iwate,Japan	40.2057N	141.7098E	74	From 2012-11-01
Kukesi	KKS	Albania	42.0756N	20.4113E	300	
Kukul	KKG	Guatemala	14.9750N	92.0360W	960	From 1979-11-01
Kukurantumi	KUK	Ghana	6.1890N	0.3690W	198	From 1973-03-01
Kula-Manisa	KULA	Turkey	38.5144N	28.6607E	915	From 2007-02-21
Kul'dur	KLR	Yevreyskaya Avtonomnaya Oblast',Russia	49.2300N	131.7500E	298	From 1954-01-01
Kulet Umm Tiheiwat	NMAN	Egypt	23.9169N	33.0737E	275	
Kulim	KULM	Peninsular Malaysia,Malaysia	5.2900N	100.6500E	74	From 2003-11-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Kulin High School, Kulin	AUKUL	West Australia,Australia	32.6700S	118.1500E	312	From 2012-09-20
Kulkuduk	KLKU	Uzbekistan	42.5400N	63.3000E	361	
Kullorsuaq	KULLO	Greenland	74.5805N	57.2201W	44	From 2009-07-17
Kultieth River Mountain	KULT	Alaska,U.S.A.	60.2479N	142.7214W	1006	
Kulu	KULR	Magadanskaya Oblast',Russia	61.8890N	147.4310E	655	From 1980-01-01
Kulu	KULU	Turkey	39.0426N	33.0023E	1121	From 2010-06-29
Kuludalsa	IKUD	Iceland	64.3210N	21.8750W	28	From 1996-06-28
Kulusuk, Greenland	KULG	Greenland	65.5752N	37.1788W	50	From 2004-08-02
Kulyab	KUL	Tajikistan	37.9200N	69.7800E	600	From 1947-01-01 to 1995-01-01
Kumagaya	KMG	Saitama,Japan	36.1466N	139.3833E	31	
Kumamoto	KUM	Kumamoto,Japan	32.8100N	130.7100E	39	
Kumamoto 2	KUMJ	Kumamoto,Japan	32.5350N	130.8280E	170	
Kumano	KMN	Wakayama,Japan	33.9677N	136.0580E	300	
Kumaryk	KUMR	Uzbekistan	41.2000N	69.3000E	404	
Kumba	KBC	Cameroon	4.6531N	9.4131E	375	From 1985-03-17
Kumbag-Tekirdag	SBT4	Turkey	40.8281N	27.5354E	-1144	From 2010-12-22
Kume jima	KMJ	Ryukyu Islands,Japan	26.3350N	126.8067E	4	
Kume jima 2	JKE	Ryukyu Islands,Japan	26.3260N	126.7860E	71	
Kumisi	KYM	Georgia,Georgia	41.6300N	44.7300E	420	
Kumisi	KMSG	Georgia,Georgia	41.6211N	44.7754E	420	From 1982-01-01
Kumluca	MARK	Turkey	36.2748N	30.4356E	973	From 2003-12-08
Kumora	KMO	Buryatiya,Russia	55.8869N	111.2006E	480	
Kumora	KUM*	Buryatiya,Russia	55.8869N	111.2006E	480	
Kumukh	KMKR	Dagestan,Russia	42.1311N	47.0989E	1950	
Kundal	KUDL	Haryana,India	28.1442N	76.4892E	0	
Kunene	KNN	Democratic Republic of the Congo	1.4800S	29.0670E	1800	
Kunene	KNN1	Democratic Republic of the Congo	1.4873S	29.0707E	1896	
Kungur	PR3R	Permskiy Kray,Russia	57.4437N	57.0059E	116	From 2003-04-03
Kungurtug, Tuva Republic, Russia	KNGR	Tyva,Russia	50.6043N	97.5171E	1311	From 2011-10-11
Kuni	JGK	Gumma,Japan	36.5620N	138.6397E	645	
Kunigami	JOW	Ryukyu Islands,Japan	26.8322N	128.2745E	220	
Kunimi	JKI	Oita,Japan	33.6323N	131.5690E	120	
Kunming	KUN	Yunnan,China	25.1233N	102.7400E	1945	
Kunming	KMI	Yunnan,China	25.1233N	102.7400E	1940	
Kunneppu	KNP	Abashiri,Japan	43.7599N	143.7124E	190	
Kunszentmiklos	PKS7	Hungary	47.0473N	19.1609E	95	
Kununurra	KNA	Western Australia,Australia	15.7500S	128.7667E	150	From 1965-11-01 to 2008-08-20
Kununurra	KNRA	Western Australia,Australia	15.6769S	128.7627E	101	From 2008-08-21
Kuosheng	TWX	Taiwan region	25.1988N	121.6616E	40	From 1975-01-10
Kupang	KUP	Timor,Indonesia	10.1678S	123.5860E	52	
Kupang	KUG	Timor,Indonesia	10.1513S	123.6050E	52	From 1973-01-01
Kupang	KUPT	Timor,Indonesia	10.1513S	123.6050E		
Kupecik-Ladik(Samsun)	KUPE	Turkey	40.8765N	36.0489E	1050	From 2013-12-06
Kupiano	KPN	Papua New Guinea	10.0746S	148.1810E	20	
Kupiano	KUPN	Papua New Guinea	10.0769S	148.1840E	10	From 1983-12-14
Kurahashi	JHM	Hiroshima,Japan	34.1395N	132.5293E	60	
Kuram	KURS	Kazakhstan	43.4880N	78.1700E	840	From 1980-09-01
Kuranda	KDA	Queensland,Australia	16.8250S	145.6300E	365	From 1959-11-01 to 1964-12-31
Kurayoshi	KYTD	Tottori,Japan	35.4392N	133.8339E	100	
Kurayoshi	JKR	Tottori,Japan	35.3783N	133.8198E	174	
Kurchatov	KURK	Kazakhstan	50.7154N	78.6202E	184	From 1995-03-26
Kurchatov Array	KURBB	Kazakhstan	50.6226N	78.5304E	200	From 2006-09-20
Kurchatov Array Site 1	KUR01	Kazakhstan	50.7216N	78.5634E	163	From 2006-09-20
Kurchatov Array Site 10	KUR10	Kazakhstan	50.5236N	78.4977E	203	From 2006-09-20
Kurchatov Array Site 11	KUR11	Kazakhstan	50.6019N	78.6863E	200	From 2006-09-20
Kurchatov Array Site 12	KUR12	Kazakhstan	50.6061N	78.6551E	202	From 2006-09-20
Kurchatov Array Site 13	KUR13	Kazakhstan	50.6102N	78.6242E	224	From 2006-09-20
Kurchatov Array Site 14	KUR14	Kazakhstan	50.6144N	78.5927E	217	From 2006-09-20
Kurchatov Array Site 15	KUR15	Kazakhstan	50.6185N	78.5615E	198	From 2006-09-20
Kurchatov Array Site 16	KUR16	Kazakhstan	50.6269N	78.4993E	193	From 2006-09-20
Kurchatov Array Site 17	KUR17	Kazakhstan	50.6318N	78.4690E	184	From 2006-09-20
Kurchatov Array Site 18	KUR18	Kazakhstan	50.6353N	78.4368E	191	From 2006-09-20
Kurchatov Array Site 19	KUR19	Kazakhstan	50.6394N	78.4057E	180	From 2006-09-20
Kurchatov Array Site 2	KUR02	Kazakhstan	50.7017N	78.5566E	167	From 2006-09-20
Kurchatov Array Site 20	KUR20	Kazakhstan	50.6436N	78.3746E	182	From 2006-09-20
Kurchatov Array Site 21	KUR21	Kazakhstan	50.6222N	78.5311E	240	
Kurchatov Array Site 3	KUR03	Kazakhstan	50.6820N	78.5500E	173	From 2006-09-20
Kurchatov Array Site 4	KUR04	Kazakhstan	50.6622N	78.5434E	176	From 2006-09-20
Kurchatov Array Site 5	KUR05	Kazakhstan	50.6424N	78.5366E	181	From 2006-09-20
Kurchatov Array Site 6	KUR06	Kazakhstan	50.6028N	78.5239E	194	From 2006-09-20
Kurchatov Array Site 7	KUR07	Kazakhstan	50.5831N	78.5172E	200	From 2006-09-20
Kurchatov Array Site 8	KUR08	Kazakhstan	50.5632N	78.5108E	199	From 2006-09-20
Kurchatov Array Site 9	KUR09	Kazakhstan	50.5433N	78.5043E	199	From 2006-09-20
Kurday	KRD	Kazakhstan	43.3833N	75.0500E	900	
Kurdemir	KDMR	Azerbaijan	40.3760N	48.1840E	39	From 2009-10-26
Kurdzhali	KDZ	Bulgaria	41.6500N	25.4167E	409	
Kure	KRE	Hiroshima,Japan	34.2333N	132.5670E		
Kuril'sk	KUR	Sakhalinskaya Oblast',Russia	45.2333N	147.8667E	25	
Kurino-dake	KV04	Miyazaki,Japan	31.9422N	130.8133E	1020	
Kurkur	AKUR	Egypt	23.8940N	32.7760E		
Kurmenty	KRM	Kazakhstan	42.9870N	78.2750E	2151	
Kuroka	JGF	Gifu,Japan	35.6008N	137.3572E	580	
Kuromamegawa	KMGE	Nagano,Japan	36.4200N	138.5456E	1557	
Kuro-shima	JKRS	Ryukyu Islands,Japan	24.2375N	124.0092E	9	
Kuroyon	KYJ	Toyama,Japan	36.5640N	137.6692E	1390	
Kurravaara	KUA	Sweden	67.9542N	20.3368E	360	
Kurthwood	341A	Louisiana,U.S.A.	31.3334N	93.1681W	93	From 2011-03-08 to 2012-11-15
Kurtkulagi	KRTT	Turkey	36.9220N	35.8810E	100	From 1994-01-01
Kurty	KUU	Kazakhstan	43.8930N	76.3390E	550	
Kurucasile-Bartin	KURC	Turkey	41.8456N	32.7430E	144	From 2011-12-14
Kurukshetra	KKR	Haryana,India	29.9615N	76.8207E	257	From 1974-01-01
Kurvinen	KU1	Finland	65.5646N	29.5583E	240	From 2003-06-26
Kurzu	KRYG	Georgia,Georgia	42.5826N	42.2841E	310	From 1973-01-01
Kusadasi-Aydin	KUSD	Turkey	37.8604N	27.2868E	321	From 2011-04-20
Kushihara	KHJ	Gifu,Japan	35.2576N	137.4088E	343	
Kushima	JJK	Miyazaki,Japan	31.4800N	131.2847E	235	
Kushima--Naru	JNAR	Miyazaki,Japan	31.5265N	131.2717E	80	
Kushiro	KUS	Kushiro,Japan	42.9750N	144.3917E	33	
Kushiro	KSUJ	Kushiro,Japan	43.1000N	144.7950E	-30	From 1978-01-01
Kushiro	KUSJ	Kushiro,Japan	43.1000N	144.7950E	-30	From 1978-01-01
Kushirohamanaka	JKHN	Kushiro,Japan	43.0828N	145.1608E	48	From 2012-11-01
Kuta	KUTA	Papua New Guinea	5.9200S	144.2233E	2017	
Kutahya	KUTH	Turkey	39.3955N	30.0213E	1300	From 2012-03-02
KUTAHYA	AUKUT	Turkey	39.9555N	30.0213E	1085	From 2010-06-20
K¯…tahya/Merkez-And¯–z	ANDZ	Turkey	39.5094N	29.8990E	1122	From 2014-11-25
Kutsugahara	KUT	Hiroshima,Japan	34.9528N	132.8160E	336	From 1968-05-06 to 1974-12-27
Kuturchin	KTRR	Krasnoyarskiy Kray,Russia	54.9377N	94.2144E	350	From 2004-11-26
Kutztown	KTZ	Pennsylvania,U.S.A.	40.5117N	75.7800W	148	From 1967-10-01
Kuujjuarapik	KJKQ	Quebec,Canada	55.2769N	77.7455W	15	From 2011-08-13
Kuujjuuaa	KUQ	Quebec,Canada	58.1090N	68.4113W	54	From 1990-01-21
Kuzuini	KUZU	Turkey	36.7735N	37.0750E	701	From 2007-12-07
Kuzumaki	JKZ	Iwate,Japan	39.9845N	141.3298E	620	
Kvetna	KVC	Czech Republic	50.2059N	12.5152E	580	From 2003-05-14
Kwajalein Atoll	KWAJ	Marshall Islands	8.8019N	167.6130E		
Kwanting	KWNG	Beijing,China	40.2400N	115.6050E	0	From 1955-01-01
Kyakhta	KYA	Buryatiya,Russia	50.3667N	106.4500E		
Kyburz Flat	KBF	California,U.S.A.	39.5068N	120.2120W	2079	From 1973-04-01
Kyela	KYLA	Tanzania,United Republic of Tanzania	9.5987S	33.8673E	516	
Kyle	KYL	Scotland,United Kingdom	57.3197N	5.6506W	105	From 1984-01-01 to 1986-04-18
Kymi	KYM1	Greece	38.6338N	24.1057E	218	From 2010-10-01
Kymi, Euboea Island, Greece	KYMI	Greece	38.6331N	24.1001E	258	From 2014-04-01
Kyoto	KYO	Kyoto,Japan	35.0117N	135.7350E	42	
Kyparissia	MES3	Greece	37.2488N	21.6725E	87	From 2011-10-14
Kyparissia	KYP2	Greece	37.2498N	21.6669E	34	From 2011-09-01
Kyrgizsay	KGSKZ	Kazakhstan	43.3280N	79.4920E	1368	From 2004-06-03
Ky Son	KSVV	Vietnam	20.8750N	105.3590E	30	From 2005-03-15
Kythira	KTHR	Crete,Greece	36.2606N	23.0042E	315	From 2007-05-01
Kythira Island - Agia Moni	KTHA	Greece	36.2566N	23.0621E	360	From 2013-06-18
Kyusyur	KYU	Sakha,Russia	70.6800N	127.3700E	20	From 1985-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Kyzart	KZA	Kyrgyzstan	42.0778N	75.2496E	3520	
Kyzyl	KZLR	Krasnoyarskiy Kray,Russia	51.7050N	94.4538E	603	From 2003-12-24
Kyzyl-Adyr	KZAD	Kyrgyzstan	42.6590N	71.6000E	900	
Kyzyldzhar	KYZD	Tajikistan	41.5500N	70.0100E	1428	
Kziot	KZIT	Israel	30.9063N	34.3972E	248	
Kzylasker	KZAKZ	Kazakhstan	43.1360N	76.2240E	1085	From 2004-05-07
La Aguada	AGV	Venezuela	8.5630N	71.0900W	3516	
La Almunia	NE11*	Spain	41.4770N	1.3720W	370	
Labasa	LBSA	Fiji	16.5540S	179.2890E	185	
Labassere	LABF	Midi-Pyrenees,France	43.0475N	0.0737E	750	From 1997-03-01
la Bastide-des-Jourdans	BSTF	Provence-Cote d'Azur,France	43.8800N	5.6450E	500	From 2010-07-08
Labe	LABG	Guinea	11.2328N	12.3322W	1130	From 1991-07-01
La Belle	O40A	Missouri,U.S.A.	40.1212N	91.8740W	206	From 2010-12-09 to 2012-09-12
Labete	LBT	Solomon Islands,Papua New Guinea	8.3167S	157.2670E		
Labinsk	LABN	Krasnodarskiy Kray,Russia	44.6413N	40.7236E	290	From 2008-09-26
La Bonita	BONI	Ecuador	0.4528N	77.5290W	2040	From 2012-08-08
Laboratory Soil Mechanics	LSM1	Greece	40.6281N	22.9600E	-2	From 2012-04-01
Laboratory Soil Mechanics	LSM0	Greece	40.6281N	22.9600E	38	From 2012-04-01
Labuha	LBMI	Bacan,Indonesia	0.6379S	127.5008E	114	From 2005-01-01
Labuhan Bajo, Sumatra	LBFI	Flores,Indonesia	8.4800S	119.8900E	123	From 2008-12-01
Lac	LACI	Albania	41.6363N	19.7094E	55	
Lac	LACR	Severo-Osetinskaya,Russia	42.8270N	44.2970E	1271	From 2004-08-13
La Caˆ–ada	LCND	El Salvador	13.3090N	87.8903W	165	From 2011-11-25
La Casta Ranch, Jordon	D21A	Montana,U.S.A.	47.0658N	106.9939W	934	From 2008-08-21 to 2010-07-10
Lac Aux requins	LARD	Djibouti	11.5787N	42.5066E	100	From 1999-01-01
Lacayo	LCY	El Salvador	13.4233N	88.2945W	1001	
Lac Daplat, Pontiac, MRC	E54A	Quebec,Canada	46.4339N	77.1869W	277	From 2012-09-07
Lac Daran	DAQ	Quebec,Canada	47.9644N	71.2425W	939	From 1988-12-15
Lac de Gras North	LDGN	Northwest Territories,Canada	64.6786N	110.5224W	422	
Lac de Gras South	LGSN	Northwest Territories,Canada	64.3337N	110.1307W	440	
Lac de Lave	LDLD	Djibouti	11.5837N	42.4985E	137	From 1987-01-01
Lac des Isle Mine	LDIO	Ontario,Canada	49.1750N	89.5955W	500	
Lac-des-Plages	DHLQ	Quebec,Canada	45.9963N	74.8853W	193	
Lac du Bonnet	ULM	Manitoba,Canada	50.2497N	95.8750W	281	From 1984-09-04
LAC DU BONNET INFRASONIC ARRAY REFERENCE POINT	LBCA	Manitoba,Canada	50.2015N	96.0269W	247	From 1999-05-04
La Ceiba	CEIV	Venezuela	9.4098N	71.0359W	4	
La Ceiba	LCBS	El Salvador	13.6550N	88.9783W	710	From 1991-12-01
Lac Etchemin	E61A	Quebec,Canada	46.4312N	70.4890W	527	From 2013-08-06
Lac Fusel, La Vallee-de-La-Gatineau	D54A	Quebec,Canada	47.1520N	76.6570W	415	From 2012-09-02
La Chapelle	CABF	Franche Comte,France	46.6111N	6.0875E	1070	From 1996-04-03
La Chartreuse	BLCH	Belgium	50.6395N	5.5988E	100	From 1991-02-01
La Chataigneraie	LCHF	Poitou-Charentes,France	46.6693N	0.7417W	166	
La Cienega, Culver City	LCGC	California,U.S.A.	34.0003N	118.3779W	108	
La Clusaz	OG04	Rhone-Alpes,France	45.9137N	6.4380E	1330	From 1991-09-11
Lacona	LCNA	New York,U.S.A.	43.6442N	75.9260W	396	
La Concha	LHG	Guatemala	14.4450N	91.1825W	600	From 1979-05-01
Laconia	LANH	New Hampshire,U.S.A.	43.5910N	71.4900W	200	
Lacq	LACL	Aquitaine,France	43.4350N	0.7269W	195	
Lacq-Usine	USIL	Aquitaine,France	43.4169N	0.6378W	95	
La Cruz	CRZC	Costa Rica	10.9533N	85.5967W	325	
La Cruz	CRZ1	Costa Rica	11.0723N	85.6352W	270	
La Cruz	CRUC	Colombia	1.5677N	76.9510W	2761	From 1994-01-01
Lac Salanfe	SALAN	Switzerland	46.1441N	6.9730E	1885	From 2001-07-11
Lac Senin/Sanetsch	SENIN	Switzerland	46.3633N	7.2993E	2035	From 2002-02-06
Lac Sinclair, Quebec	LSQ1	Quebec,Canada	45.7898N	76.1525W	215	From 2007-06-30
La Cuchilla	LACU	Venezuela	7.8767N	71.3906W	800	From 1984-01-01
La Cueva	LCV	New Mexico,U.S.A.	35.8828N	106.6740W	2652	From 1973-09-01 to 1999-08-25
La Culata	CUV	Venezuela	8.7490N	71.0600W	2940	
La Cumbre	CMG	Guatemala	14.6707N	89.7853W	1802	
La Cumbre 2	CMG2	Guatemala	14.6608N	89.7867W	1710	From 1988-01-01
La Cumbre Peak	LPC	California,U.S.A.	34.4965N	119.7130W	1190	From 1969-11-01
Lac Vacive, Pontiac, Mrc	D53A	Quebec,Canada	47.0795N	77.7001W	347	From 2012-09-01
La Danta	LADA	Venezuela	7.9389N	71.6131W	1200	From 1984-01-01
Ladd Mountain	LMW	Washington,U.S.A.	46.6680N	122.2910W	1195	From 1975-06-30
La Desirade	DEG	Guadeloupe,France	16.3132N	61.0598W	575	From 1988-03-01
La D"sirade Island	GDSD	Guadeloupe,France	16.3128N	61.0660W	270	From 2010-12-10
La Diana	DIAC	Colombia	3.2913N	76.1973W	1520	From 1987-01-01
La Diferencia	DR6	Dominican Republic	19.2328N	70.9915W		
La Diferencia	DR06	Dominican Republic	19.2328N	70.9915W		
Ladik-KONYA	LADK	Turkey	38.2000N	32.3648E	1168	From 2007-06-19
Ladron	LAZ	New Mexico,U.S.A.	34.4020N	107.1390W	1853	
Ladron Mountain	LAD	New Mexico,U.S.A.	34.4583N	107.0370W	1768	From 1976-01-01
La Druitiere	LDF	Basse-Normandie,France	48.5936N	0.1222W	290	From 1982-09-28
Lady	LDJ	Utah,U.S.A.	40.5815N	111.4087W	2217	From 1992-09-30
Ladybower, Peak District	LBWR	England,United Kingdom	53.4016N	1.7248W	353	From 2011-12-08
Lae	LUNA	Papua New Guinea	6.7337S	147.0098E	96	From 2012-12-01
Lae	LAE	Papua New Guinea	6.6731S	146.9130E	50	From 1966-01-01 to 1970-05-18
Lae	LAT	Papua New Guinea	6.6651S	147.0020E	72	From 1970-05-18
Laela	LAEL	Tanzania,United Republic of Tanzania	8.5662S	32.0592E	1598	
Lae--Mount Lunaman	LML	Papua New Guinea	6.7351S	147.0090E	100	From 1979-01-01
Lafayette	LA-GA	Georgia,U.S.A.	34.8572N	85.4500W	610	From 1965-12-03 to 1965-12-13
Lafayette	LAF	Rhode Island,U.S.A.	41.5508N	71.5067W	40	From 1976-03-25 to 1977-06-10
Lafayette	LA-	Georgia,U.S.A.	34.8572N	85.4500W	610	From 1965-12-03 to 1965-12-13
Lafayette	SFIN	Indiana,U.S.A.	40.3790N	87.0967W	165	From 2008-10-09
La Foliniere	FLN	Basse-Normandie,France	48.7625N	0.4819W	240	
La Follette	LF-TN	Tennessee,U.S.A.	36.4697N	83.8286W	366	
La Follette	U51A	Tennessee,U.S.A.	36.3786N	84.0165W	472	From 2012-05-30
La Follette	LF-	Tennessee,U.S.A.	36.4697N	83.8286W	366	
La Foret Royale	FRF	Provence-Cote d'Azur,France	43.5607N	6.6468E	310	From 1981-07-01
La Frestale	LFF	Aquitaine,France	44.9395N	0.7402E	200	From 1985-07-17
La Fuente	LORF	Costa Rica	10.0432N	83.7268W	2430	
La Fuente	LFU	El Salvador	13.7487N	89.1138W	732	
Lagarterita	LGT	Panama	9.0745N	79.9150W	50	
Lagarto - SE	NBLA	Sergipe,Brazil	10.9925S	37.7890W	192	From 2011-09-03
Lageado - TO	LJDO	Tocantins,Brazil	9.7698S	48.2893W	273	From 2011-06-26
Lagoa do Fogo	LFA	Azores,Portugal	37.7726N	25.4831W	693	From 1981-01-01
Lago Colima	CLMC	Colombia	3.8814N	76.5630W	1480	From 1988-11-01
Lago de Cote	AR2	Costa Rica	10.5614N	84.8933W	763	
Lagodekhi	LGD	Georgia,Georgia	41.8347N	46.2423E	420	From 1968-01-01
Lago del Careser	CARE	Trentino,Italy	46.4252N	10.6945E	2605	From 2002-08-10
Lago del Serru	LSD	Italy	45.4595N	7.1343E	2285	From 1985-01-01
La Gomera	EGOM	Canary Islands,Spain	28.1594N	17.2096W	0	From 2003-05-19
La Gonave Hosp	WSYH	Haiti	18.8330N	72.8628W	29	
Lagor	LAGL	Aquitaine,France	43.4061N	0.6650W	190	
Lago Ritom (SBB)	RITOM	Switzerland	46.5345N	8.6780E	1822	From 2005-12-15
La Grande	LTQ	Quebec,Canada	53.7017N	76.0850W	313	From 1980-05-01 to 1982-11-17
La Grande	LCQ	Quebec,Canada	53.5411N	76.9731W	293	From 1978-10-13
La Grande	LGOR	Oregon,U.S.A.	45.2164N	118.0010W	1200	From 1991-07-01
La Grande	LBQ	Quebec,Canada	53.5360N	77.3540W	183	From 1979-07-27
La Grande	LAQ	Quebec,Canada	53.8073N	77.0200W	183	From 1978-10-15
La Grande	LDQ	Quebec,Canada	53.8061N	77.4281W	198	
La Grande	LGQ	Quebec,Canada	53.6920N	77.7250W	190	From 1976-08-04 to 1980-05-17
La Grande 3	LRQ	Quebec,Canada	53.7014N	76.0589W	284	From 1984-04-02
La Grande 3	LXQ	Quebec,Canada	53.7223N	76.0222W	195	From 1986-12-16
La Grande 3	JCQ	Quebec,Canada	53.4672N	75.8242W	320	
La Grande 3	JBQ	Quebec,Canada	53.6103N	75.6053W	381	
La Grande 3	JAQ	Quebec,Canada	53.8022N	75.7211W	366	From 1981-03-23 to 1999-08-25
La Grande 4	LG4Q	Quebec,Canada	53.6269N	74.0972W	168	
La Grande 4	LQQ	Quebec,Canada	53.8458N	73.4883W	311	From 1983-02-23 to 1984-03-11
La Grande 4	KBQ	Quebec,Canada	53.9778N	73.2850W	472	From 1983-01-01 to 1984-03-11
La Grande 4	KAQ	Quebec,Canada	53.9833N	73.5230W	472	From 1983-01-01 to 1984-03-12
La Grande 4	KCQ	Quebec,Canada	53.8328N	73.1319W	457	From 1983-01-01 to 1984-03-11
La Grange	LGAR	Arkansas,U.S.A.	34.6520N	90.6560W	100	From 1979-08-07
La Guardia	BB02	Bolivia	17.8982S	63.3242W	528	From 2011-11-14
Lagu-Hvolar	IHVO	Iceland	63.5260N	18.8480W	196	From 1999-10-20
Laguna Cedeˆ–o	CEDE	Costa Rica	10.4868N	84.7035W	686	From 2000-01-01
Laguna Cube	LGCB	Ecuador	0.3821N	79.5753W	160	From 2008-12-03
Laguna Mountains	LGA	Arizona,U.S.A.	32.7597N	114.4930W	68	
Laguna Peak, Port Hueneme	BLG	California,U.S.A.	34.1082N	119.0659W	416	From 1999-06-13

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Laguna Tiscapa	TISN	Nicaragua	12.1425N	86.2693W	200	
Laguna Verde	LVIG	Veracruz,Mexico	19.7232N	96.4177W	41	
Laguna Verde	LVVM	Veracruz,Mexico	19.7380N	96.4488W		From 1988-01-01
Laguna Verde	LAV	Valparaiso,Chile	33.0874S	71.7462W	60	
Laguneta	LAGU	Venezuela	9.7700N	69.7650W	800	From 1986-01-01
Lagunillas	LGN	Venezuela	10.1450N	71.2700W	-3	From 1969-08-01
Lagunillas	LAGV	Venezuela	10.2239N	71.1593W	100	
Lagunnoye	LAGR	Sakhalinskaya Oblast',Russia	44.0556N	145.7861E	28	From 2011-09-20
Lahad Datu	MYLDM	Sabah,Malaysia	5.1800N	118.5000E	0	From 2006-03-24
Lahat	LHSI	Sumatera,Indonesia	3.8267S	103.5233E	0	From 2007-12-01
La Hesperia	HSPR	Ecuador	0.3515S	78.8502W	1387	From 2008-11-24
La Honda	LT5	California,U.S.A.	37.3313N	122.2800W	226	From 1966-12-18 to 1970-05-01
Lahore	LAH	Pakistan	31.5500N	74.3333E	210	From 1952-01-01 to 1968-12-31
Laichau	LUV	Vietnam	22.0519N	103.1590E	1100	
Lai Chau	LCVN	Vietnam	22.0387N	103.1543E	1100	
L'Aileron	AIL	Martinique,France	14.8010N	61.1080W	879	From 1971-03-01 to 1999-08-25
Lailor River, Nunavut	LAIN	Northwest Territories,Canada	69.1086N	83.5361W	320	From 2005-08-18
Laimos Florinas	LMS2	Greece	40.8350N	21.1418E	923	From 2012-09-01
La Independencia	AGZ	Colombia	4.9350N	72.4670W	223	
Laja	LAJA	Bio-Bio	37.2809S	72.7112W	84	From 2013-06-20
Lajitas	LTX	Texas,U.S.A.	29.3339N	103.6670W	1013	From 1984-09-12
Lajitas Array Beam Reference Point	TXAR	Texas,U.S.A.	29.3338N	103.6670W	1013	
Lajitas Array Site 10	TX10	Texas,U.S.A.	29.3307N	103.7025W	1033	
Lajitas Array Site 11	TX11	Texas,U.S.A.	29.3343N	103.6676W	1021	From 2006-08-02
Lajitas Array Site 2	TX02	Texas,U.S.A.	29.3297N	103.6575W	952	
Lajitas Array Site 3	TX03	Texas,U.S.A.	29.3310N	103.6740W	990	
Lajitas Array Site 32	TX32	Texas,U.S.A.	29.3340N	103.6677W	1013	From 2006-08-02
Lajitas Array Site 4	TX04	Texas,U.S.A.	29.3397N	103.6672W	1013	
Lajitas Array Site 5	TX05	Texas,U.S.A.	29.3202N	103.6523W	957	
Lajitas Array Site 6	TX06	Texas,U.S.A.	29.3187N	103.6815W	1007	
Lajitas Array Site 7	TX07	Texas,U.S.A.	29.3397N	103.6890W	1038	
Lajitas Array Site 8	TX08	Texas,U.S.A.	29.3510N	103.6765W	1015	
Lajitas Array Site 9	TX09	Texas,U.S.A.	29.3433N	103.6598W	1001	
Lajitas Ar. Site	TX31	Texas,U.S.A.	29.3342N	103.6678W	1025	
Lajitas Ar. Site	TX00	Texas,U.S.A.	29.3338N	103.6670W	1013	
Lajitas B3	LTB3	Texas,U.S.A.	29.3397N	103.6672W	1013	
La Jolla	LJC	California,U.S.A.	32.8633N	117.2530W	8	From 1927-05-05 to 1975-11-30
La Jonquera	EJON	Spain	42.4487N	2.8886E	570	
La Joya	LJY	New Mexico,U.S.A.	34.3365N	106.8960W	1532	
La Joya	LAJO	Bolivia	17.7777S	67.4777W	3788	From 1994-05-30 to 1995-05-06
La Joyeuse, Anse Bertrand	ABD	Guadeloupe,France	16.4743N	61.4881W	10	From 2012-09-17
Lakadia	LAKD	Gujarat,India	23.2051N	70.3445E	71	From 2012-01-01
Lake	LKWY	Wyoming,U.S.A.	44.5652N	110.4000W	2424	From 1995-10-19
Lakebay	D04D	Washington,U.S.A.	47.1786N	122.7723W	37	From 2010-08-19
Lakebay	D04E	Washington,U.S.A.	47.1786N	122.7715W	45	From 2012-10-11
Lake Benmore	LBZ	South Island,New Zealand	44.3856S	170.1844E	438	From 2004-06-04
Lake Butler	556A	Florida,U.S.A.	30.0015N	82.4057W	45	From 2012-02-06
Lake Butte	YPLB	Wyoming,U.S.A.	44.5113N	110.2720W	2565	
Lake Butte	YPLA	Wyoming,U.S.A.	44.5127N	110.2687W	2580	
Lake Cedric, Chanute	S36A	Kansas,U.S.A.	37.7240N	95.5923W	299	From 2010-03-16 to 2012-03-02
Lake Chabot	CLCB	California,U.S.A.	37.7379N	122.0649W	309	
Lake Chabot	CLCM	California,U.S.A.	37.7380N	122.0640W	312	From 1972-11-21 to 2008-07-16
Lake Chabot	LKC	California,U.S.A.	37.7380N	122.0640W	312	From 1972-11-21 to 2008-07-16
Lake Charles	LCAR	Arkansas,U.S.A.	36.0695N	91.1543W	103	
Lake Charles	541A	Louisiana,U.S.A.	30.0596N	93.1875W	0	From 2011-02-26 to 2012-12-06
Lake County Forest Preserve, Grayslake	L44A	Illinois,U.S.A.	42.1782N	87.9119W	202	From 2011-10-10
Lake De Bois	LDBN	Northwest Territories,Canada	66.7219N	124.9431W	294	From 2010-07-17
Lake Erie College	LECO	Ohio,U.S.A.	41.7090N	81.2500W	204	
Lake Grace	LKGR	Western Australia,Australia	33.1036S	118.4590E	295	From 2011-01-28
Lake Granby, Granby	O23A	Colorado,U.S.A.	40.2109N	105.9178W	2635	From 2008-07-06 to 2010-06-14
Lakehead University	LHC	Ontario,Canada	48.4167N	89.2667W	196	From 1969-02-28 to 1986-09-24
Lake Helen	758A	Florida,U.S.A.	28.9621N	81.1996W	16	From 2012-02-13
Lake Helena	LHM	Montana,U.S.A.	46.6756N	111.9430W	1117	From 1974-10-09 to 1976-10-04
Lake Herman	NLHM	California,U.S.A.	38.1198N	122.1480W	177	
Lake Hughes	LHU	California,U.S.A.	34.6710N	118.4110W	1036	From 1976-06-01
Lake Jocassee	BG3	South Carolina,U.S.A.	34.9930N	82.9317W	384	
Lake Junction	YPLK	Wyoming,U.S.A.	44.5697N	110.3865W	2390	
Lakeland CC	LCCO	Ohio,U.S.A.	41.6380N	81.3640W	231	
Lakeland CC 2, Kirtland	LCCO2	Ohio,U.S.A.	41.6390N	81.3570W	245	
Lake Magadi	MALJ	Tanzania,United Republic of Tanzania	3.1913S	35.4707E	2360	
Lake Margaret	MARG	Tasmania,Australia	41.9995S	145.5516E	700	
Lake Mead	LM-	Nevada,U.S.A.	36.5825N	114.5353W	536	From 1961-11-25 to 1962-05-14
Lake Mead	LM-NV	Nevada,U.S.A.	36.5825N	114.5353W	536	From 1961-11-25 to 1962-05-14
Lake Mikany	MIKA	Tasmania,Australia	40.8781S	145.1811E	40	
Lake Minchumina	CHUM	Alaska,U.S.A.	63.8827N	152.3147W	58	
Lake Moeraki	LMZ	South Island,New Zealand	43.7150S	169.2696E	10	From 1990-11-08 to 2004-07-31
Lake Mountain	LMUT	Utah,U.S.A.	40.3151N	111.9320W	1593	
Lake Mountain	LMU	Utah,U.S.A.	40.2831N	111.9370W	2316	From 1974-09-01 to 1980-03-31
Lake Ozonia	LONY	New York,U.S.A.	44.6197N	74.5829W	440	From 2005-10-06
Lake Ozonia	LOZ	New York,U.S.A.	44.6197N	74.5829W	440	
Lake Rotokare	LREZ	North Island,New Zealand	39.4602S	174.4027E	165	From 2010-01-27
Lake Saint Peter	G54A	Ontario,Canada	45.3979N	78.0898W	465	From 2013-07-22
Lakeshore Drive, S. Francisco	J061	California,U.S.A.	37.7306N	122.4974W	22	
Lake Shores	LSU	Utah,U.S.A.	40.1322N	111.7301W	1375	
Lakeside	LSCT	Connecticut,U.S.A.	41.6784N	73.2244W	318	From 1993-08-04 to 2007-02-06
Lake Taylor	LTZ	South Island,New Zealand	42.7816S	172.2710E	648	From 1989-10-12
Lakeview	L05A	Oregon,U.S.A.	42.0472N	120.8336W	1751	From 2006-06-16 to 2007-10-24
Lakeview	LKVW	Oregon,U.S.A.	42.2242N	120.3596W	1512	From 2007-05-01
Lakeview Peak	LVP	Washington,U.S.A.	46.0683N	122.4080W	1170	
Lakeview Retreat	LRAL	Alabama,U.S.A.	33.0348N	86.9978W	130	From 2001-07-02
Lake Wenatchee	LW-	Washington,U.S.A.	47.8456N	120.9017W	762	
Lake Wenatchee	LW-WA	Washington,U.S.A.	47.8456N	120.9017W	762	
Lake Whitney, Meridian	WHTX	Texas,U.S.A.	31.9913N	97.4561W	190	From 2009-02-11
Lake Wisdom	LKW	Papua New Guinea	5.3350S	147.0650E	150	
Lake Woodford	WOOD	New South Wales,Australia	33.6979S	150.4855E	420	
Lakewood Golf Course	LGC	California,U.S.A.	33.8358N	118.1500W	17	From 1971-07-07 to 1974-03-15
Lakka	LAKA	Greece,Greece	38.2401N	21.9785E	505	From 2008-01-01
La Laguna	LLGN	El Salvador	14.1710N	88.9520W	919	
Lale Fork Canyon	LFC	New Mexico,U.S.A.	35.8769N	106.6650W	2451	
La Libertad	ALIBE	Ecuador	2.2428S	80.8463W	39	From 2010-08-05
La Lomota	DR5	Dominican Republic	19.6349N	70.8596W		
La Lomota	DR05	Dominican Republic	19.6349N	70.8596W	660	
La Lucha	LCR	Costa Rica	9.7384N	84.0016W	1400	From 1978-01-01 to 1982-11-30
La Lucha 2	LCR2	Costa Rica	9.7422N	84.0030W	1730	From 1982-11-01
La Lucha Farm	LLC	Costa Rica	9.6654N	83.9991W	1400	From 1966-02-01 to 1978-01-31
Lama dei Peligni	LPEL	Italy	42.0468N	14.1832E	760	From 2008-04-11
La Malbaie	LMQ	Quebec,Canada	47.5483N	70.3267W	419	From 1976-11-04
La Malbaie	LMBQ	Quebec,Canada	47.4700N	70.1500W	0	From 1979-09-19
Lamap	LMP	Vanuatu	16.4256S	167.8000E	60	
Lamas de Olo	POLO	Portugal	41.3738N	7.7942W	1060	From 2008-10-29
Lambert	C23A	Montana,U.S.A.	47.8026N	105.1844W	729	From 2008-09-09 to 2011-01-13
Lambert Chapel	LCAL	Alabama,U.S.A.	34.5225N	85.6302W	544	From 1983-02-24 to 1985-12-03
Lambom Island	ELB	New Ireland,Papua New Guinea	4.8038S	152.8300E	10	
Lamborn Mesa, Paonia	Q21A	Colorado,U.S.A.	38.8347N	107.5738W	1881	From 2007-12-04 to 2010-02-07
Lambtecht Ranch, Loup City	M31A	Nebraska,U.S.A.	41.3440N	98.9766W	699	From 2009-09-09 to 2011-08-18
Lamerd	LMD1	Iran	27.3398N	53.1646E	425	From 2013-05-20
La Mesa Andrade	LMX	Sonora,Mexico	32.1087N	114.9600W		From 1988-01-01
Lamington	LMG	Papua New Guinea	8.9083S	148.1500E	1200	From 1970-01-01
Lamocks	LMC	Guangdong,China	23.2667N	117.2830E		
La Mourre	LMR	Provence-Cote d'Azur,France	43.3339N	6.5092E	200	
Lampang	LPT	Thailand	18.2167N	99.5500E	0	From 1976-02-01 to 1978-08-31
Lampang	LAMP	Thailand	18.5226N	99.6322E	246	
Lampedusa	LPD	Italy	35.5114N	12.5951E	20	From 1989-05-01
Lampedusa Capo Grecale	LPDG	Sicily,Italy	35.5183N	12.6302E	49	From 2012-09-17
Lampeter	LPW	Wales,United Kingdom	52.1136N	4.0681W	152	
Lamto	LIC	Ivory Coast	6.2244N	5.0278W	105	From 1965-06-01
La Murta	EMUR	Spain	37.8422N	1.2405W	574	
Lancaster	LANC	California,U.S.A.	34.7270N	118.0510W	719	
Land-Between-the-Lakes	LLKY	Kentucky,U.S.A.	36.9220N	88.0970W	177	From 1985-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Landers	LAC	California,U.S.A.	34.3898N	116.4120W	792	From 1968-08-01
Landfair	LDFC	California,U.S.A.	35.0781N	115.1096W	1209	
Landman Farms, Northwood	C31A	North Dakota,U.S.A.	47.7927N	97.7336W	384	From 2010-08-23 to 2012-06-25
Lands Inn, Kimberly	H07A	Oregon,U.S.A.	44.5913N	119.5646W	1204	From 2006-08-15 to 2008-04-18
Landslide	LSW	Washington,U.S.A.	46.4813N	119.2453W	262	From 1970-06-01 to 1971-10-31
Lane BPA Site-SMO	LANE	Oregon,U.S.A.	44.0517N	123.2331W	120	From 2001-01-17
Lanestosa	ELAN	Spain	43.2317N	3.4340W	633	From 2003-03-28
Langara Island	LIB	British Columbia,Canada	54.2558N	133.0580W	35	From 1984-09-12
Lang Chanh	LAVN	Vietnam	20.1532N	105.2475E	50	From 2003-01-01
Langenberg	LANF	Alsace,France	48.9806N	7.8053E	500	
Langenfeld Brothers Farm, Elkhart Lake	I43A	Wisconsin,U.S.A.	43.8844N	88.1460W	299	From 2011-10-11 to 2013-06-03
Langenfeld Grube Bendisberg	LAGB	Germany	50.3608N	7.1007E	282	From 2013-06-06
Langila	LAG	New Britain,Papua New Guinea	5.4556S	148.4330E	24	
Lang Ngam	LNVN	Vietnam	21.0770N	106.1540E	50	
Langsa, Aceh	LASI	Sumatera,Indonesia	4.4572N	97.9704E	13	
Lang Son station	LSVB	Vietnam	21.8527N	106.7492E	285	From 2006-01-01
Lankaran	LNK	Azerbaijan	38.7500N	48.8600E	-18	From 1949-01-01 to 1984-01-01
Lannavaara	LANU	Sweden	68.0493N	21.9880E	500	From 2004-08-07
Lanshu	TWI	Taiwan region	22.0683N	120.5050E	20	From 1974-09-12
Lanslevillard	LNS	Rhone-Alpes,France	45.2889N	6.9147E	1480	
Lant Hill Farm, Argyle	J60A	New York,U.S.A.	43.2438N	73.4212W	265	From 2013-09-17
Lanuvio	LAV9	Italy	41.6778N	12.6989E	300	From 2000-06-07
Lan-yu	LAY	Taiwan region	22.0387N	121.5510E	324	
Lan-yu	LYUB	Taiwan region	22.0017N	121.5840E	40	
Lanzarote	CLAN	Canary Islands,Spain	29.1031N	13.4761W	356	
Lanzhou	LCC	Gansu,China	36.0833N	103.6670E	1600	
Lanzhou	LAN	Gansu,China	36.0500N	103.8330E	1518	
Lanzhou	LZH	Gansu,China	36.0867N	103.8440E	1560	
La Palma	LPS	El Salvador	14.2922N	89.1619W	1000	
La Parita Creek, Jourdanton	734A	Texas,U.S.A.	28.8473N	98.5576W	121	From 2009-12-02 to 2011-10-11
La Paz	LZ-BV	Bolivia	16.2586S	68.4797W	3993	
La Paz	LPB	Bolivia	16.5327S	68.0984W	3292	From 1962-02-01
La Paz	LPX	Baja California,Mexico	24.1293N	110.4310W	7	From 2006-12-09
La Paz	LPIG	Baja California,Mexico	24.1020N	110.3080W	46	
La Paz	LZ-	Bolivia	16.2586S	68.4797W	3993	
La Paz	LPAZ	Bolivia	16.2879S	68.1307W	4774	
La Paz	LAP	Baja California,Mexico	24.1600N	110.2800W	65	
La Paz, Banderani	BBOB	Bolivia	16.1410S	68.1325W	3960	From 1975-01-01
La Paz, Chanca	BBOE	Bolivia	16.8127S	67.9832W	4325	From 1982-01-01
La Paz, Gloria	BBOD	Bolivia	16.6374S	68.5981W	4230	From 1986-01-01
La Paz, Jacaque	BBOJ	Bolivia	16.9751S	68.1915W	4125	From 2008-04-12
La Pedrera	LAPE	Venezuela	7.5580N	71.5756W	327	From 1984-01-01
La Peregrina	LPR	Puerto Rico	18.3086N	65.8697W	580	From 1976-08-10 to 1999-08-25
La Plagne	LPG	Rhone-Alpes,France	45.4977N	6.7514E	2570	From 1985-06-01
La Plagne	LPL	Rhone-Alpes,France	45.5164N	6.7324E	2070	From 1986-07-01
La Plaine	DLPL	Dominica	15.3325N	61.2468W	300	From 2007-12-04
La Plaine Cafres	PCR	Reunion,France	21.1957S	55.5778E	2270	
La Plantade	PLDF	Auvergne,France	45.9698N	3.6212E	940	From 1983-06-01
La Plata	LPA	Buenos Aires,Argentina	34.9089S	57.9319W	14	From 1907-01-01
La Pocatiere	POC	Quebec,Canada	47.3644N	70.0408W	61	From 1972-01-21 to 1980-10-17
La Pocatiere	LPQ	Quebec,Canada	47.3408N	70.0093W	126	From 1980-06-06 to 2006-03-28
La Pryor	LP-TX	Texas,U.S.A.	29.1797N	99.6764W	274	From 1961-11-27 to 1962-05-16
La Pryor	LP-	Texas,U.S.A.	29.1797N	99.6764W	274	From 1961-11-27 to 1962-05-16
Lapseki	LPK	Turkey	40.3727N	26.7602E	200	
Lapu-Lapu	LLP	Cebu,Philippines	10.3170N	123.9660E	135	
La Quiaca	LQA	Jujuy,Argentina	22.1033S	65.6033W	3464	
L'Aquila	T0103	Italy	42.3618N	13.4245E	849	From 2009-04-06 to 2009-06-12
L'Aquila	AQU	Italy	42.3539N	13.4019E	729	From 1952-01-01
La Quinta	LAQC	California,U.S.A.	33.6280N	116.2800W	49	
LAR	LAR1	Iran	27.6694N	54.3746E	785	From 2014-01-22
La Rabassa	ARBS	Andorra	42.4467N	1.5490E	2145	From 2009-10-20
Laramie	LAR	Wyoming,U.S.A.	41.3144N	105.5830W	2400	From 1954-01-01 to 1977-12-31
Laramie	M23A	Wyoming,U.S.A.	41.4680N	105.7221W	2166	From 2008-07-15 to 2010-05-13
Larch Mountain	VLMM	Oregon,U.S.A.	45.5385N	122.0390W	1158	
Laredo	933A	Texas,U.S.A.	27.6133N	99.2746W	214	From 2010-01-07 to 2011-11-16
Lares	LRS	Puerto Rico	18.2914N	66.8446W	455	From 1977-02-15
La Restinga, El Hierro	CRST	Canary Islands,Spain	27.6424N	17.9828W	30	From 2011-07-01
Larissa	LAR4	Thessaly,Greece	39.6422N	22.4219E	84	From 2011-05-01
Larissa	LAR5	Thessaly,Greece	39.6404N	22.4105E	93	From 2011-05-01
Larissa Observatory	LRSO	Greece	39.6713N	22.3917E	78	From 2011-07-06
La Roca	LARO	Costa Rica	9.7052N	84.0235W	2107	
La Roca	LARC	Costa Rica	9.7085N	84.0123W	2040	
La Roche-sur-Yon	LRYF	Poitou-Charentes,France	46.5787N	1.5472W	67	
La Romaine 2 Dam	LRQ1	Quebec	50.6656N	63.2310W	253	From 2014-05-28
La Romaine 2 Dam Dyke F2,	LRQ2	Quebec	50.6485N	63.2786W	161	From 2014-05-29
Laroque-de-Fa	LRDF	Languedoc-Rousillon,France	42.9378N	2.5387E	400	From 2003-04-01
Larrau	LARF	Aquitaine,France	43.0380N	0.9875W	670	From 1997-10-30
Larroussi	LRO	Morocco	31.8370N	9.1500W	135	
Larsen Ranch, Manila	N18A	Utah,U.S.A.	40.9763N	109.6731W	1893	From 2007-07-24 to 2009-04-23
Larsen Ranch, Promontory	M15A	Utah,U.S.A.	41.4632N	112.4477W	1348	From 2007-02-12 to 2009-04-08
La Rua	ERUA	Spain	42.3927N	7.1425W	431	From 1987-05-01
La Rumorosa	RMX	Baja California,Mexico	32.6025N	116.0786W	1420	
La Rusia	RUSC	Colombia	5.8925N	73.0832W	3697	From 1994-01-01
Lasa Array	LASA	Montana,U.S.A.	46.6885N	106.2231W	902	
Lasa Array	LA0	Montana,U.S.A.	46.6885N	106.2231W	902	
LASA Array	LAO	Montana,U.S.A.	46.6885N	106.2231W	902	From 1966-01-01
LASA B Ring	LB3	Montana,U.S.A.	46.6592N	106.3170W	723	From 1966-01-01 to 1999-08-25
LASA B Ring	LB1	Montana,U.S.A.	46.7522N	106.0920W	754	From 1966-01-01 to 1999-08-25
LASA B Ring	LB4	Montana,U.S.A.	46.7681N	106.2430W	717	From 1966-01-01 to 1999-08-25
LASA B Ring	LB2	Montana,U.S.A.	46.6350N	106.1630W	694	From 1966-01-01 to 1999-08-25
LASA C Ring	LC2	Montana,U.S.A.	46.6694N	106.0130W	779	From 1966-01-01 to 1978-06-30
LASA C Ring	LC1	Montana,U.S.A.	46.8394N	106.1270W	719	From 1966-01-01 to 1999-08-25
LASA C Ring	LC4	Montana,U.S.A.	46.7353N	106.3740W	764	From 1966-01-01 to 1978-06-30
LASA C Ring	LC3	Montana,U.S.A.	46.5742N	106.2500W	682	From 1966-01-01 to 1978-06-30
LASA D Ring	LD3	Montana,U.S.A.	46.5497N	106.4800W	800	From 1966-01-01 to 1999-08-25
LASA D Ring	LD4	Montana,U.S.A.	46.9419N	106.3830W	713	From 1966-01-01 to 1978-06-30
LASA D Ring	LD2	Montana,U.S.A.	46.5031N	106.0110W	661	From 1966-01-01 to 1978-06-30
LASA D Ring	LD1	Montana,U.S.A.	46.8397N	105.8890W	759	From 1966-01-01 to 1978-06-30
LASA E Ring	LE4	Montana,U.S.A.	46.7608N	106.9170W	803	From 1966-01-01 to 1974-01-01
LASA E Ring	LE1	Montana,U.S.A.	47.1628N	106.0560W	686	From 1966-01-01 to 1974-01-01
LASA E Ring	LE3	Montana,U.S.A.	46.1494N	106.3340W	761	From 1966-01-01 to 1974-01-01
LASA E Ring	LE2	Montana,U.S.A.	46.5128N	105.3650W	610	From 1966-01-01 to 1974-01-01
LASA F Ring	LF4	Montana,U.S.A.	47.4111N	106.9440W	707	From 1966-01-01 to 1974-01-01
LASA F Ring	LF3	Montana,U.S.A.	45.9728N	107.0820W	837	From 1966-01-01 to 1974-01-01
LASA F Ring	LF2	Montana,U.S.A.	45.9094N	105.4860W	754	From 1966-01-01 to 1974-01-01
LASA F Ring	LF1	Montana,U.S.A.	47.3708N	105.1880W	740	From 1966-01-01 to 1974-01-01
Las Animas	S27A	Colorado,U.S.A.	37.6837N	102.8982W	1439	From 2008-12-15 to 2010-11-08
Las Aradas	LHAH	Honduras	14.0500N	87.4083W	1650	
Las Brisas	LBRS	El Salvador	13.7383N	89.0433W	770	From 1991-12-01
Las Campanas	LCO	Coquimbo,Chile	29.0111S	70.7010W	2299	
Las Canadas	CCAN	Canary Islands,Spain	28.2217N	16.6050W	2210	
Las Cruces	LC-	New Mexico,U.S.A.	32.4022N	106.5994W	1585	
Las Cruces	LC-NM	New Mexico,U.S.A.	32.4022N	106.5994W	1585	
Las Cruces	LCCH	Santiago,Chile	33.4753S	71.5697W	180	From 1987-11-17
La Serena	LSCH	Coquimbo,Chile	29.9080S	71.2450W	52	
Las Esperanzas	ESPN	Nicaragua	12.1950N	84.3002W	45	
Las Flores	FLS	Guatemala	13.8943N	90.0658W	180	
Las Flores	AIES	El Salvador	13.4564N	89.0514W	39	
Las Granadillas	GRDS	El Salvador	13.7583N	89.2917W	1500	From 1991-12-01
Lasithi	LAST	Crete,Greece	35.1611N	25.4786E	870	
Lasjerd	ILAS	Iran	35.3822N	52.9589E	2195	From 1999-05-01
Las Lajas	LJX	Veracruz,Mexico	19.5383N	97.1492W	3050	From 1983-04-01
Las Lilas	GBS2	Costa Rica	10.8370N	85.4527W	392	From 2000-01-01
Las Melosas	LMEL	Santiago,Chile	33.8476S	70.2034W	1540	
Las Mercedes	EDLM	Costa Rica	9.2790N	83.5890W	629	
Las Mercedes	LMGC	Cuba	20.0640N	77.0050W		
Las Mercedes	MERV	Venezuela	9.2510N	66.2970W	156	From 2001-11-16
Las Mesas	LSP2	Puerto Rico	18.1458N	66.9811W		
Las Mesas	LSP	Puerto Rico	18.1757N	67.0858W	389	From 1975-11-14

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Las Morras, Villanueva del Duque, Cordoba	E031	Spain	38.3393N	4.9967W	691	From 2007-09-23 to 2009-06-16
Las Nubes	NBG	Guatemala	14.5875N	90.3467W	2200	
Las Nubes	NUBE	El Salvador	13.9022N	89.7799W	1311	From 2014-06-02
Las Nubes	LNB	Nicaragua	12.0328N	86.2532W	640	From 1983-01-01
Las Ollas	OLLA	Venezuela	10.0189N	66.8039W	947	From 1984-01-01
La Souterraine	LSF	Limousin,France	46.2500N	1.5294E	430	
Las Pavas	PAVA	El Salvador	13.7132N	88.9372W	1029	From 2012-02-14
LAS PENAS INFRASONIC ARRAY REFERENCE POINT	LPBO	Bolivia	16.2152S	68.4535W	4096	From 2000-01-03
Las Pilas	BRAN	Nicaragua	12.7200N	86.3500W	83	
Lassiter	DY2	Tennessee,U.S.A.	36.3302N	89.3520W	110	From 1969-01-01 to 1970-12-31
Las Tabladas, Isla de El Hierro	CTAD	Canary Islands,Spain	27.7494N	18.0850W	147	From 2011-07-18
Last Change Range	LCH	California,U.S.A.	37.2330N	117.6450W	1414	
Last Nowhere	ST40	Xizang Zizhiqu,China	33.8146N	88.3070E	4964	From 1998-07-12 to 1999-06-04
Lastovo	LSTV	Croatia	42.7686N	16.8919E	130	From 2014-04-02
Las Vegas	LVN	Nevada,U.S.A.	36.1092N	115.1400W	610	From 1960-01-01 to 1970-12-31
Las Vegas	LVW	Nevada,U.S.A.	36.1700N	115.1880W	654	
Latacunga	ALAT	Ecuador	0.9264S	78.6183W	2777	From 2011-10-21
Laterza	LATE	Italy	42.6137N	11.8040E	610	From 2006-05-04
Laterza	LTRZ	Italy	40.6033N	16.8191E	381	
Latheron	MLA1	Scotland,United Kingdom	58.3055N	3.3627W	188	From 1981-01-01
Lathrop	P37A	Missouri,U.S.A.	39.5882N	94.3491W	300	From 2010-11-27 to 2012-09-25
La Thuile	THUI	Italy	45.6825N	6.9320E	2323	From 2012-06-28
Latina	LATB	Italy	41.4939N	12.9624E	-187	From 2012-11-21
La Tirana	TIRA	Chile	20.3299S	69.5717W	1020	From 2009-12-05
La Tortuga	TORT	Venezuela	10.9084N	65.3139W	40	From 1984-01-01 to 1999-08-25
Latouche	LTI	Alaska,U.S.A.	60.0405N	147.8540W	302	From 1988-07-01
La Tour-de-Pellz	NOV4	Switzerland	46.4475N	6.8598E	380	From 2010-02-09
Latrobe	ALAM	California,U.S.A.	38.5667N	120.9560W	293	
La Tuque	LATQ	Quebec,Canada	47.3836N	72.7819W	163	From 2007-09-14
Latur	LATR	Maharashtra,India	18.4163N	76.5595E		
Lauchernalp	LAUCH	Raron,Switzerland	46.4155N	7.7717E	2160	From 2010-11-17
Laukkuluspa	RATU	Sweden	67.8234N	19.5913E	480	
La Union	UON	Guerrero,Mexico	17.9700N	101.8150W		
Laupahoehoe	LPH	Hawaii,U.S.A.	19.9972N	155.4042W	6	
Laupendahl	LAUG	Nordrhein-Westfalen,Germany	51.3510N	6.9440E	140	From 2004-08-01
Lau Rambong	LARI	Sumatera,Indonesia	2.8856N	98.1572E	820	
Laurance Lake	VLL	Oregon,U.S.A.	45.4633N	121.6790W	1195	From 1980-10-01
La Urbina	LAU	Venezuela	7.9110N	71.7080W	1810	
Laurel	LL-	Mississippi,U.S.A.	31.7214N	89.3558W	91	From 1966-11-14 to 1966-12-03
Laurel	LL-MS	Mississippi,U.S.A.	31.7214N	89.3558W	91	From 1966-11-14 to 1966-12-03
Laurel Creek	LRCG	California,U.S.A.	37.5857N	118.9090W	2780	From 1984-07-01
Laurel Creek Canyon	MLCM	California,U.S.A.	37.6121N	118.9153W	2471	
Laurel Hill	JLAB	California,U.S.A.	37.1543N	121.7347W	318	
Laurel Hill	JLAM	California,U.S.A.	37.1543N	121.7340W	308	
Laurel Mtn Radio Fac, Ridgecrest	LRMC	California,U.S.A.	35.4795N	117.6821W	1340	From 1992-07-29
Lausanne EPFL	SEPFL	Switzerland	46.5212N	6.5657E	369	From 2011-10-01
L'Aution	AUTN	Provence-Cote d'Azur,France	43.9955N	7.4275E	2065	
Laux Farm, Auxvasse	Q40A	Missouri,U.S.A.	38.9946N	92.0748W	275	From 2010-12-06 to 2012-09-13
Lava2-Rev Volc	LAV2	Ecuador	0.0848S	77.6438W	2680	From 2002-03-08 to 2003-09-01
Lava3-Reventador	LAV3	Ecuador	0.0967S	77.6323W	2210	From 2004-11-09 to 2008-08-12
Lava4-Reventador	LAV4	Ecuador	0.0925S	77.6292W	2218	From 2008-08-13
Lava Cap Winery, Placerville	LAVA	California,U.S.A.	38.7552N	120.7395W	828	From 2004-12-09 to 2007-12-08
Lava Point	LVA	Alaska,U.S.A.	54.1609N	166.0338W	457	
Lavic	LAVC	California,U.S.A.	34.7658N	116.2865W	902	
La Victoria	LVG	Guatemala	14.9662N	91.0950W	2020	From 1978-06-01 to 1999-08-25
La Victoria	E58A	Quebec,Canada	46.3721N	73.2771W	233	From 2013-07-30
La Villa de Los Santos	LVS	Panama	7.9270N	80.4166W	37	From 2001-08-14
La Villita	LVGX	Guerrero,Mexico	18.0450N	102.1750W		
Lavrentia	LAVR	The Chukotsky Autonomous Okrug,Russia	65.5850N	171.0120W	18	From 2005-12-15
Lawrence	LAK	Kansas,U.S.A.	39.0463N	95.2045W	326	From 1977-08-14 to 2001-07-15
Lawrence	LAW	Kansas,U.S.A.	38.9594N	95.2500W	260	From 1909-01-01 to 2001-07-15
Lawson Adit, UC Berkeley, California	ADIT	California,U.S.A.	37.8700N	122.2600W	75	From 2014-06-15
Lawton	X33A	Oklahoma,U.S.A.	34.5410N	98.5006W	346	From 2009-10-24 to 2011-09-04
Lawton Elementary School	LAWT	Washington,U.S.A.	47.6565N	122.3894W	111	
Laxson Ranch, Crystal City	732A	Texas,U.S.A.	28.7292N	99.9707W	178	From 2009-02-16 to 2011-01-20
La Yayitas	DR11	Dominican Republic	18.4719N	70.2346W	780	
Layou Valley	DLVT	Dominica	15.4365N	61.3946W	274	
Lazarev	LZR	Khabarovskiy Kray,Russia	52.1700N	141.5000E	20	From 1979-12-01 to 1994-03-01
Lazaro Cardenas	LAZM	Michoacan,Mexico	18.0360N	102.2050W		
Lazići	BBLS	Serbia	43.8660N	19.4050E	882	From 1996-01-24
Lazy	LACW	Czech Republic	50.0508N	12.6250E	838	From 1994-01-01
Lazy 6 Ranch, Villanueva	W24A	New Mexico,U.S.A.	35.2106N	105.4075W	1902	From 2008-05-03 to 2010-04-05
Lazy EL Ranch, Roscoe	G18A	Montana,U.S.A.	45.3171N	109.5631W	1699	From 2007-10-28 to 2009-09-15
Lazy Trails Angus Ranch, Wood Lake	K29A	Nebraska,U.S.A.	42.7612N	100.3182W	840	From 2009-06-01 to 2011-04-08
Lazy VL Ranch, Encino	X24A	New Mexico,U.S.A.	34.5646N	105.4349W	1917	From 2008-04-26 to 2010-03-13
Le@15oga@12ne	LGNH	Haiti	18.5110N	72.6058W	62	
Leachville	LVAR	Arkansas,U.S.A.	35.9146N	90.2221W	71	
Lead	LEA	South Dakota,U.S.A.	44.3333N	103.8170W		
Lead Mine Pass	HKLM	Hong Kong,China	22.4121N	114.1588E	300	From 1997-04-23
Lead Mountain	LED	California,U.S.A.	34.4677N	115.9360W	853	From 1974-04-01
Leadore	H14A	Idaho,U.S.A.	44.6165N	113.3674W	1933	From 2007-08-16 to 2009-06-05
Leadville	LDV	Nevada,U.S.A.	41.0975N	119.3910W	1798	From 1974-03-01 to 1976-05-31
Leamington	P15A	Utah,U.S.A.	39.5708N	112.2786W	1576	From 2007-05-23 to 2009-04-11
Leaning Rock	LRCZ	South Island,New Zealand	45.0637S	169.3463E	1533	From 1987-01-31 to 1996-04-27
Leavenworth	C06D	Washington,U.S.A.	47.9229N	120.8943W	544	
Lebam	E03A	Washington,U.S.A.	46.5459N	123.5632W	72	From 2005-10-26 to 2009-01-08
Lebanon	H04D	Oregon,U.S.A.	44.5234N	122.7377W	284	From 2010-08-12
Lebanon	LB-	New Hampshire,U.S.A.	43.6208N	72.2756W	274	From 1962-06-14 to 1962-06-28
Lebanon	LB-NH	New Hampshire,U.S.A.	43.6208N	72.2756W	274	From 1962-06-14 to 1962-06-28
Lebanon	S40A	Missouri,U.S.A.	37.5988N	92.5014W	336	From 2010-12-11 to 2012-09-13
Lebel-sur-Quevillon	LSQQ	Quebec,Canada	49.0580N	76.9796W	308	From 2009-09-13
Lebyazhka	LBGK	Orenburgskaya Oblast',Russia	52.0254N	53.5853E	148	From 2013-07-27
Le Caire	OG25	Provence-Cote d'Azur,France	44.3698N	6.0735E	1060	
Lecce	LCI	Italy	40.3346N	18.1120E	46	
Ledoux Ranch, Antler	A27A	North Dakota,U.S.A.	48.9533N	101.2407W	466	From 2009-08-08 to 2011-07-21
Leeds	LDS	Utah,U.S.A.	37.2425N	113.3514W	1101	
Leeds	LEE	Utah,U.S.A.	37.2430N	113.3767W	1097	From 1963-04-01 to 1999-08-25
Leeds University	LDU	England,United Kingdom	53.8025N	1.5553W	230	From 1983-01-01
Lee Faris, Mount Ayr	N37A	Iowa,U.S.A.	40.7582N	94.2095W	351	From 2010-10-27 to 2012-09-11
Leesville	635A	Texas,U.S.A.	29.3877N	97.7736W	119	From 2009-12-17 to 2011-10-08
Lee's Yard	MLYT	Montserrat	16.7213N	62.1910W	355	
Lee Vining	R07C	California,U.S.A.	38.0890N	119.0469W	1996	From 2005-08-03 to 2007-10-02
Lefka	LEF	Cyprus	35.1193N	32.8903E	130	From 1998-01-14
Lefkada island	LKD2	Greece	38.7889N	20.6578E	485	From 2008-06-02
Lefkada island	EVGI	Greece	38.6210N	20.6560E	249	From 2012-07-04
Lefkas	LEF2	Greece	38.8302N	20.7081E	5	From 2011-05-01
Lefkose	LFK	Cyprus	35.2792N	33.5325E	690	From 1987-01-01
Legarje	LEGS	Slovenia	45.9488N	15.3177E	390	
Legaspi	LEG	Luzon,Philippines	13.1333N	123.7333E	19	
Legaspi	LGP	Luzon,Philippines	13.1562N	123.7340E	19	From 1975-10-01
Leghorn	LIV	Italy	43.5333N	10.3000E		
Legoe Bay, Lummi Island	A04A	Washington,U.S.A.	48.7197N	122.7070W	23	From 2004-09-19 to 2008-02-19
Legon	LEGH	Ghana	5.6483N	0.1814W	91	
Legon	LGG	Ghana	5.6483N	0.1967W	137	From 1976-11-01 to 1986-12-31
Lehigh University	LUPA	Pennsylvania,U.S.A.	40.5987N	75.3718W	255	From 2006-01-08
Lehliu	LEHL	Romania	44.4739N	26.8194E	90	From 2012-10-31
Leibel Peak	WLPM	California,U.S.A.	35.5077N	118.4090W	2265	
Leigh Creek	LCRK	South Australia,Australia	30.4472S	138.2162E	184	From 2013-07-17
Leinawald	ABG1	Thuringen,Germany	50.9653N	12.5721E	203	From 2012-10-25
Leipzig	LEI	Sachsen,Germany	51.3350N	12.3917E	113	
Leirgulen	N2B6	Norway	61.8640N	5.3060E	20	
Leirhofn	ILEI	Iceland	66.4070N	16.4900W	41	From 1993-10-24
Lekhapani	LKP	Assam,India	27.3330N	95.8461E	139	
Le Mans	LMF	Pays de la Loire,France	48.0000N	0.2000E	77	
Le Marinel	LMA	Democratic Republic of the Congo	10.3000S	25.4000E		
Le Mars	K34A	Iowa,U.S.A.	42.6865N	96.0957W	436	From 2010-07-27 to 2012-04-26
Lembang	LEM	Jawa,Indonesia	6.8266S	107.6175E	1293	From 1954-01-01
Lemhi Junction	LJI	Idaho,U.S.A.	43.8208N	112.8440W	1600	From 1990-05-15
Lemitar	LENM	New Mexico,U.S.A.	34.1655N	106.9740W	1698	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Lemmon	F27A	South Dakota,U.S.A.	45.8727N	102.0203W	757	From 2009-07-19 to 2011-05-06
Lemond, Waseca	I37A	Minnesota,U.S.A.	44.0148N	93.4003W	371	From 2010-10-09 to 2012-09-10
Lemonthyme	LMT	Tasmania,Australia	41.6100S	146.1520E	349	From 1969-09-25 to 1971-08-06
Le Moule	GLMO	Guadeloupe,France	16.3324N	61.3513W	5	From 2005-02-01
LENE	LENE	Germany	53.0910N	11.4780E	20	
Leninakan	LEN	Armenia	40.7667N	43.8500E	1522	
Leninskoye	LNSK	Kazakhstan	50.7300N	57.9000E	355	From 1974-07-01
Lenkeran, Azerbaijan	LKRN	Azerbaijan	38.7100N	48.7790E	65	From 2003-03-29
Lennox	LTN	Tennessee,U.S.A.	36.0630N	89.4950W		From 1977-08-01 to 1992-12-31
Lenox	LNXT	Tennessee,U.S.A.	36.1014N	89.4913W	144	
Lenox	LNX	Massachusetts,U.S.A.	42.3389N	73.2724W	345	
Lentini	HLNI	Sicily,Italy	37.3480N	14.8720E	95	From 1994-05-01
Lenzkirch (DE)	BERGE	Baden-Wurttemberg,Germany	47.8718N	8.1783E	925	From 2012-09-03
Leoben	LTA	Austria	47.4033N	15.0761E	840	
Leola	F30A	South Dakota,U.S.A.	45.8356N	99.0250W	601	From 2009-09-08 to 2011-07-28
Leola	LAL	Alabama,U.S.A.	34.4367N	87.3372W	320	From 1989-03-28
Leon	LEON	Nicaragua	12.4160N	86.8925W	160	
Leon	LNM	Jalisco,Mexico	21.1167N	101.6675W	1800	
Leonard	LNO3	Oklahoma,U.S.A.	35.9125N	95.7892W	257	From 1992-01-01
Leonard	TUL1	Oklahoma,U.S.A.	35.9104N	95.7919W	253	From 2008-10-16
Leonard	LNO	Oklahoma,U.S.A.	35.9125N	95.7892W	-487	From 1988-12-07
Leonard	LNO2	Oklahoma,U.S.A.	35.9125N	95.7892W	-171	From 1992-01-01
Leonardtown, MD	R60A	Maryland,U.S.A.	38.2684N	76.5807W	33	From 2013-04-18
Leona Valley	LEOC	California,U.S.A.	34.6313N	118.3040W	1073	
Leon Cerro Gordo	LCG	Guanajuato,Mexico	21.1450N	101.7250W	2200	From 1968-03-01
Leoncito	LEO	San Juan,Argentina	31.7997S	69.3353W	2400	
Leoncito	RTLS	San Juan,Argentina	31.7989S	69.2969W	2560	
Leonessa	LNSS	Italy	42.6029N	13.0403E	1155	From 2004-05-10
Leonidio	LEO1	Greece	37.1688N	22.8637E	54	From 2011-09-01
Leota Junior High School	LEOT	Washington,U.S.A.	47.7679N	122.1151W	155	
Leova	LEOM	Moldova	46.4733N	28.2467E	52	From 1982-01-01
Lepanto	LPAR	Missouri,U.S.A.	35.6019N	90.3002W	66	
Le Parnasse	PAG	Guadeloupe,France	16.0297N	61.6800W	670	From 1950-01-01
Lepaterique	LTH	Honduras	14.0708N	87.3458W		From 1990-01-01
Le Pertre	LPF	Bretagne,France	48.0315N	1.0408W	156	
Le Peyrat	LPEF	Midi-Pyrenees,France	42.9485N	1.9077E	440	From 1998-10-20
Lephalale	LEP	Transvaal,South Africa	23.6497S	27.7468E	840	
Le Pouchou	LPO	Midi-Pyrenees,France	44.6831N	1.1869E	330	
Lerchenberg	LBG	Baden-Wurttemberg,Germany	48.6639N	8.7954E	594	From 1995-01-01
Leresti	LRR	Romania	45.4403N	25.0750E	700	From 1989-01-01
Lerida	LER	New South Wales,Australia	34.9344S	149.3640E	700	From 1970-01-01 to 1995-01-01
Lerik	LRK	Azerbaijan	38.6430N	48.3400E	1592	From 2009-11-25
Lermontov	LMTZ	Armenia	40.7570N	44.6440E	1810	
Lernakert	LERZ	Armenia	40.5670N	43.9500E	1990	
Lernantsk	LRNS	Armenia	40.7800N	44.2667E	1905	
Lernapar	LYES	Armenia	40.7467N	44.1633E	2170	
Lernavan	LERS	Armenia	40.7783N	44.1517E	1820	
Le Roux Dam	PKR	Orange Free State,South Africa	30.0033S	24.7417E	1267	
Leroy	Q53A	West Virginia,U.S.A.	38.8586N	81.5251W	310	From 2013-02-27
Lerwick	LRWS	Shetland Islands,United Kingdom	60.1397N	1.1831W	80	
Lerwick	LRW	Shetland Islands,United Kingdom	60.1360N	1.1779W	83	From 1978-01-01
Les Avellanes	CAVN	Spain	41.8827N	0.7518E	626	
les Blancs	BLAF	Provence-Cote d'Azur,France	43.9510N	6.0450E	590	From 2011-11-16
Les Buteaux	LBF	Bourgogne,France	46.9844N	3.9772E	715	
l'Escarene	ESCA	Provence-Cote d'Azur,France	43.8310N	7.3740E	550	From 2004-09-23
Lescure	LESF	Midi-Pyrenees,France	43.0311N	1.2839E	460	
Les Eyzies	NE09	Aquitaine,France	44.8520N	0.9810E	160	From 1982-11-01 to 1986-02-28
Les Forges d'Abel	FDAF	France	42.8188N	0.5672W	1230	From 1998-05-20
Leshukonskoye	LSH	Arkangel'skaya Oblast',Russia	64.8786N	45.7338E	60	From 2006-10-18
Lesken	LSNR	Severo-Osetinskaya,Russia	43.2780N	43.8260E	675	From 2004-06-23
Leskovik	LSK	Albania	40.1500N	20.6000E	922	From 1985-01-01
Lesnoe	LSN4	Sakhalinskaya Oblast',Russia	46.9580N	143.0311E	30	From 2002-01-01
Lesozavodsk	LES	Sakhalinskaya Oblast',Russia	44.7667N	147.1830E		
Lesparou	LSPF	Midi-Pyrenees,France	42.9481N	1.9042E	450	
Les Platons	JLP	Channel Islands,United Kingdom	49.2428N	2.1039W	131	From 1981-01-01
Les Rejaudoux	RJF	Limousin,France	45.3044N	1.5164E	410	From 1975-10-01
Les Rejaudoux	NE18	Limousin,France	45.3044N	1.5164E	410	From 1975-10-01 to 2001-07-28
Les Sairains Dessus	SAIRA	Switzerland	47.3027N	7.0865E	963	From 2011-11-24
Les Verrieres	BRANT	Switzerland	46.9380N	6.4730E	1145	From 2002-10-10
L"tav"rtes, Hungary	LTVH	Hungary	47.3849N	21.9006E	121	From 2012-05-30
Letterbox	LBXM	New South Wales,Australia	34.2721S	150.8736E	400	
Letur, Albacete	E034	Spain	38.2298N	2.1918W	1292	From 2008-06-03 to 2009-09-14
Leukerbad	LKBD	Switzerland	46.3870N	7.6271E	1550	From 1994-12-21
Leukerbad 2	LKBD2	Switzerland	46.3745N	7.6443E	2128	From 2001-07-05
Levan	LEVU	Utah,U.S.A.	39.5065N	111.8147W	1996	From 1992-01-01
Levan Peak	LVU	Utah,U.S.A.	39.4917N	111.8270W	2530	From 1978-01-01
Levkas	LKD	Greece	38.7072N	20.6506E	1140	
Levy	LVY	Alaska,U.S.A.	64.2167N	149.2530W	230	From 1972-07-01
Lewis and Clark Caverns	LCCM	Montana,U.S.A.	45.8377N	111.8780W	1669	From 1983-03-01
Lewisberry	O58A	Pennsylvania,U.S.A.	40.1231N	76.9228W	321	From 2013-06-15
Lewisburg	S55A	West Virginia,U.S.A.	37.7724N	80.5013W	647	From 2013-01-29
Lewisburg	LE-TN	Tennessee,U.S.A.	35.6347N	86.7672W	213	From 1962-10-17 to 1962-10-27
Lewisburg	LE-	Tennessee,U.S.A.	35.6347N	86.7672W	213	From 1962-10-17 to 1962-10-27
Lewis, Hebrides	LEWI	Scotland,United Kingdom	58.1446N	6.8696W	279	From 2014-01-30
Lewis Ranch	BLRM	California,U.S.A.	36.6660N	121.2730W	232	From 1973-02-15
Lewistown	LT-PA	Pennsylvania,U.S.A.	40.3392N	78.0667W	396	From 1962-11-08 to 1962-12-12
Lewistown	LT-	Pennsylvania,U.S.A.	40.3392N	78.0667W	396	From 1962-11-08 to 1962-12-12
Lewistown	LN-MA	Montana,U.S.A.	47.2119N	109.1489W	1448	
Lexington	LEX	Virginia,U.S.A.	37.7894N	79.4417W	311	From 1971-05-01 to 1977-12-31
Lexington	LEK	Kentucky,U.S.A.	38.0361N	84.5050W	299	From 1974-10-01 to 1976-05-31
Lexington Res.	JLXM	California,U.S.A.	37.2018N	121.9860W	244	From 1975-02-04
Lexington Reservoir	LXR	California,U.S.A.	37.2018N	121.9860W	244	From 1975-02-04
L&G Farms, Chester	B17A	Montana,U.S.A.	48.2921N	110.7988W	894	From 2007-11-15 to 2009-09-05
Lhasa	LHA	Xizang Zizhiqu,China	29.6367N	91.0367E	3789	
Lhasa	LSA	Xizang Zizhiqu,China	29.7000N	91.1500E	3789	
Lhatse, Xizang Zizhiqu	LAZE	Xizang Zizhiqu,China	29.1403N	87.5922E	4011	From 2002-07-21 to 2002-10-27
Lhers	LHE	Aquitaine,France	42.9130N	0.6213W	1070	
Lhok Sumawe	LHMI	Sumatera,Indonesia	5.2288N	96.9472E	3	From 2008-02-29
Liard River	LR9	British Columbia,Canada	59.4483N	126.1750W	610	
Libby	B12A	Montana,U.S.A.	48.4694N	115.5889W	764	From 2006-09-23 to 2009-08-07
Libby Dam	LDM	Montana,U.S.A.	48.4539N	115.3170W	838	From 1970-02-22 to 2004-03-11
Liberia	LIBE	Costa Rica	10.6168N	85.4519W	194	
Liberty	LI-NV	Nevada,U.S.A.	38.3061N	117.2917W	1829	
Liberty	LI-	Nevada,U.S.A.	38.3061N	117.2917W	1829	
Liberty	LTY	Washington,U.S.A.	47.2578N	120.6703W	970	
Liberty Center	M49A	Ohio,U.S.A.	41.4745N	83.9752W	203	From 2012-07-17
Liberty Hill	LHS	South Carolina,U.S.A.	34.4762N	80.8062W	120	From 1974-05-20
Licata	CLTA	Sicily,Italy	37.1578N	13.9620E	182	From 2012-05-25
Lichensteins Rd	LIRZ	North Island,New Zealand	38.0032S	176.3844E	340	From 1992-06-16
Lichinga	LICH	Mozambique	13.2689S	35.2348E	1400	
Lichinga	LICM	Mozambique	13.2830S	35.2260E	1400	From 2006-06-01
Lidau	ELDTW	Taiwan region	23.1890N	121.0170E	1040	
Liddieville	LV-	Louisiana,U.S.A.	32.1361N	91.8750W	15	From 1963-06-28 to 1964-01-30
Liddieville	LV-LA	Louisiana,U.S.A.	32.1361N	91.8750W	15	From 1963-06-28 to 1964-01-30
Liddow	LID	Mecklenberg-Vorpommern,Germany	54.5481N	13.3664E	1	
Lien	ILIN	Iran	34.9186N	46.9624E	2195	From 2004-01-01
LIFOU	LIFNC	Loyalty Islands,New Caledonia	20.7771S	167.2402E	35	From 2010-04-01
Lightning Creek	LGTM	Victoria,Australia	36.7632S	147.4636E	1105	
Lightning Ridge Central School	AULRC	New South Wales,Australia	29.4300S	147.9800E	145	From 2013-05-24
Lignon Hill	VLH	Luzon,Philippines	13.1600N	123.7260E	67	From 1993-01-01
Ligonier	O55A	Pennsylvania,U.S.A.	40.2076N	79.3041W	469	From 2012-12-15
Lihir Island	LHIS	New Ireland,Papua New Guinea	3.1170S	152.6330E	10	From 1987-06-22
Liikasenvaara	KU4	Finland	66.3645N	29.5794E	290	From 2004-11-04
Lijar	LIJA	Spain	36.9061N	5.4038W	951	From 1987-11-01
Likavka	LIKS	Slovakia	49.0500N	19.1060E	341	From 2003-12-01
Likely Place Golf, Likely	M06C	California,U.S.A.	41.2047N	120.4772W	1434	From 2005-06-28 to 2007-10-21
Lilburn	Y52A	Georgia,U.S.A.	33.8640N	84.0626W	286	From 2012-04-08
Lilico Spur	LSCZ	South Island,New Zealand	45.1147S	169.3693E	759	From 1986-12-09 to 1996-05-01
Lille	LIL	Nord-Pas-de-Calais,France	50.6158N	3.0708E	13	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Lillehammer	LHN	Norway	61.0492N	10.8800E	555	From 1965-04-01 to 1999-08-25
Lille Linde	LLD	Denmark	55.3331N	12.2150E	8	
Lillevand	N1R4	Norway	66.4490N	13.8780E	55	
Lillevik	N1R2	Norway	66.2820N	13.2330E	61	
Lillooet	LLL	British Columbia,Canada	50.6950N	121.9170W		From 1959-01-01 to 1960-02-01
Lillooet	LLLB	British Columbia,Canada	50.6090N	121.8815W	700	
Lilltraesk	LILU	Sweden	65.2856N	19.8480E	100	From 2000-09-01
Lilongwe	LILM	Malawi	14.1840S	33.7750E	1106	
Lilydale High School, Lilydale	AULHS	Tasmania,Australia	41.2500S	147.2200E	173	From 2013-10-01
Lima	LIM	Peru	11.9750S	77.0347W	127	
Lima	H15A	Montana,U.S.A.	44.6173N	112.6439W	1957	From 2007-08-16 to 2009-06-07
Lima (Magdalena)	LM2	Peru	12.0850S	77.0583W	0	
Lima (NY)	LILH	New York,U.S.A.	42.9213N	77.6172W	233	
Limay	LIY	Nicaragua	13.1983N	86.5602W	460	From 1975-01-01
Limburg	LIBD	Baden-Wurttemberg,Germany	48.1505N	7.6030E	210	From 1985-01-01
Lime	LIME	Oregon,U.S.A.	44.4331N	117.2480W	1500	From 1990-04-01
Limekiln Ridge	LRM	Montana,U.S.A.	45.8222N	112.4510W	2326	From 1981-10-10
Limerick	LIMH	Ireland,Ireland	52.6333N	8.6833W		From 1913-01-01 to 1943-01-01
Limnos	LOS	Greece	39.9342N	25.0814E	460	From 1996-09-28
Limnos Island	LIA	Greece	39.8981N	25.1831E	60	From 1997-01-01
Limon	LICR	Costa Rica	9.9692N	83.0883W	105	
Limon	LIO	Costa Rica	10.0050N	83.0350W	62	
Limon	LNCR	Costa Rica	9.9658N	83.0693W	40	
Limonal	LIM1	Costa Rica	10.6982N	85.2520W	600	From 1993-01-01
Limon Verde	LVC	Antofagasta,Chile	22.6100S	68.9100W	2960	
Linares	LNIG	Nuevo Leon,Mexico	24.8982N	99.4657W	295	From 2006-01-16
Linares	LNCH	Maule,Chile	35.8475S	71.6013W	170	From 2005-01-13
Lincoln	LCN	Nebraska,U.S.A.	40.8117N	96.7019W	352	
Lincoln	D15A	Montana,U.S.A.	47.0418N	112.5204W	1593	From 2006-10-05 to 2009-07-15
Lincoln	LIN	Nebraska,U.S.A.	40.8383N	96.6533W	366	
Lincoln	Q04C	California,U.S.A.	38.8390N	121.3769W	14	From 2004-12-10 to 2007-10-12
Lincoln	ALNM	California,U.S.A.	38.9297N	121.2880W	54	From 1976-12-02
Lincoln	N34A	Nebraska,U.S.A.	40.8378N	96.5005W	401	From 2010-05-14 to 2012-04-22
Lincoln Peak	MLIM	California,U.S.A.	37.6368N	119.0179W	3075	
Lincoln School	LOC	California,U.S.A.	38.1525N	122.7130W	120	From 1970-08-14
Lincton Mountain	LNOR	Oregon,U.S.A.	45.8711N	118.2850W	768	From 1986-08-01
Linda	LDMO	Missouri,U.S.A.	36.4110N	89.5630W	86	From 1980-07-19
Linda, St. Vincent	A31A	Minnesota,U.S.A.	48.9320N	97.1888W	244	From 2010-08-25 to 2012-06-23
Lindos, Rhodes Isl.	RLN1	Greece	36.0891N	28.0869E	19	From 2012-08-01
Lindquist Farm, Mitchell	H06A	Oregon,U.S.A.	44.7344N	120.3346W	516	From 2006-08-16 to 2008-05-08
Lindsay	LINO	Ontario,Canada	44.3541N	78.7802W	268	
Lindsay	D23A	Montana,U.S.A.	47.1730N	105.2071W	895	From 2008-09-19 to 2010-07-13
Linfen	LNF	Shanxi,China	36.0840N	111.3700E	555	
Lingo Farm, Meno	U33A	Oklahoma,U.S.A.	36.4327N	98.1135W	393	From 2009-10-25 to 2011-08-31
Linhares ES	RIB01	Espirito Santo,Brazil	19.3142S	40.3944W	216	From 2011-01-30
Linhart Farms, Moccasin	D18A	Montana,U.S.A.	47.1961N	109.8023W	1202	From 2007-10-15 to 2009-09-10
Linkoeping	LNKU	Sweden	58.2232N	15.5047E	130	From 2002-03-25
Linosa	SLNS	Italy	35.8716N	12.8633E	19	From 2009-01-16
Linthal, Matt	SLTM2	Switzerland	46.9236N	9.0009E	649	From 2011-05-01
Linth-Limmern	LLS	Switzerland	46.8468N	9.0083E	1860	From 1988-10-12
Lion Creek, Paradox Valley	PV14	Colorado,U.S.A.	38.3729N	109.0229W	2234	
Lioni	LIO3	Italy	40.8969N	15.1804E	737	
Lions Peak	HLPM	California,U.S.A.	37.0413N	121.6319W	102	
Lioujiau	CHN7	Taiwan region	23.4840N	120.2350E	6	
Lipari	LPI	Italy	38.4892N	14.9328E	225	From 1987-12-11
Lipari	LLI	Sicily,Italy	38.4450N	14.9481E	225	
Lipinka	LIPC	Czech Republic	49.8438N	17.0492E	429	From 2012-10-11
Lipkovo	LIP	FYR Macedonia	42.1625N	21.5833E	483	From 1969-01-01
Lip M Gallina IE	ILMG	Sicily,Italy	38.4603N	14.9467E	170	From 1988-01-01
Lip Q Pani IE	ILIQ	Sicily,Italy	38.5100N	14.9158E	350	From 1988-01-01
Liptovska Anna	LANS	Slovakia	49.1505N	19.4678E	710	From 2010-02-25
LIRI	LIRI	Bolivia	19.8507S	68.8462W	4110	From 1994-11-21 to 1995-07-23
Lisbon	LS-NH	New Hampshire,U.S.A.	44.2383N	71.9225W	287	From 1963-09-27 to 1965-03-22
Lisbon	LIS	Portugal	38.7165N	9.1491W	77	
Lisbon	N53A	Ohio,U.S.A.	40.8065N	80.8377W	360	From 2012-12-11
Lisbon	LBNH	New Hampshire,U.S.A.	44.2401N	71.9259W	367	From 1993-08-14
Lisbon--Monsanto	PMST	Portugal	38.7368N	9.1833W	175	
Lisbon (USA)	LS-	New Hampshire,U.S.A.	44.2383N	71.9225W	287	From 1963-09-27 to 1965-03-22
Listowel	I51A	Ontario,Canada	43.8036N	81.0231W	376	From 2012-11-29
Listvyanka	LSTR	Irkutskaya Oblast',Russia	51.8681N	104.8319E	450	
Lita	LITE1	Ecuador	0.7945N	78.3611W	1206	From 2006-01-18
Lita	LITE	Ecuador	0.8078N	78.3644W	1200	From 2007-01-01
Litchfield	LITR	California,U.S.A.	40.4308N	120.3208W	1646	
Lithgow	LTGO	New South Wales,Australia	33.4860S	150.1660E	960	From 2012-07-27
Litokhoron	LIT	Greece	40.1008N	22.4900E	480	From 1981-01-01
Little America	LAA	King Edward VII Land	78.2000S	162.2500W		
Little AP, Star	245A	Mississippi,U.S.A.	32.0322N	89.8958W	104	From 2011-03-20 to 2013-01-20
Little Aspen Butte	LAB	Oregon,U.S.A.	42.2675N	122.0640W	1774	From 1993-10-07
Little Butte	LBM	Montana,U.S.A.	46.5149N	111.8540W	1524	From 1974-10-09 to 1976-10-04
Little Cholame Creek	LCCB	California,U.S.A.	35.9801N	120.5142W	385	
Little Chuckwalla Mountains	LTC	California,U.S.A.	33.4890N	115.0700W	458	
Little Creek Mountain	LCMT	Utah,U.S.A.	37.0118N	113.2439W	1411	
Little Green Mountain	LGM	Idaho,U.S.A.	46.7330N	116.0930W	1455	From 1971-10-01 to 1974-07-25
Little Hoodo Mountain	LHD	Montana,U.S.A.	48.2578N	115.5580W	1134	
Little Horse	WLHM	California,U.S.A.	36.1524N	118.3131W	2645	
Little Hot Creek	MLHM	California,U.S.A.	37.6785N	118.8150W	2101	
Little Humpy Peak	LHUT	Utah,U.S.A.	40.8914N	110.9964W	3084	From 2008-07-08
Little Huntoon Valley	LHV	Nevada,U.S.A.	38.2512N	118.5040W		
Little Lost River	LLRI	Idaho,U.S.A.	43.7230N	112.9330W	1471	From 1990-06-06
Little Maria Mountains	LTM	California,U.S.A.	33.9150N	114.9180W	744	From 1974-04-01
Little Mountain	LTU	Utah,U.S.A.	41.5917N	112.2470W	1585	From 1974-09-01
Little Mountain	LMTN	Tennessee,U.S.A.	35.8868N	83.4098W	610	From 1984-03-16 to 1991-09-08
Little Mount Hoffman	LMHM	California,U.S.A.	41.5790N	121.6570W	2228	From 1979-07-12
Little Rabbit V.	BRVM	California,U.S.A.	36.4243N	121.0180W	555	From 1969-11-26
Little Rabbit Valley	LRV	California,U.S.A.	36.4243N	121.0180W	555	From 1969-11-26
Little Raleigh	RNC	North Carolina,U.S.A.	35.6318N	78.9803W		
Little Rock	LRA	Arkansas,U.S.A.	34.7783N	92.3517W	150	From 1931-02-02 to 1967-07-27
Littlerock Reservoir	LRRC	California,U.S.A.	34.5260N	118.0280W		From 1976-05-01
Little Sitkin Island	LSI	Alaska,U.S.A.	51.9197N	178.5340E		From 1970-10-20 to 1972-06-30
Little Sitkin NW	LSNW	Alaska,U.S.A.	51.9705N	178.5169E	290	
Little Sitkin PP	LSPA	Alaska,U.S.A.	51.9569N	178.5734E	335	
Little Sitkin S'e	LSSA	Alaska,U.S.A.	51.9496N	178.5132E	549	
Little Sitkin SE	LSSE	Alaska,U.S.A.	51.9332N	178.5690E	335	
Little Skull Mountain	LSN	Nevada,U.S.A.	36.7536N	116.2590W	1070	
Little Skull Mountain	LSM	Nevada,U.S.A.	36.7389N	116.2716W	1162	From 1971-07-20 to 2002-10-10
Little Table Mountain	LTMT	Montana,U.S.A.	44.5258N	112.1100W	2603	From 1989-09-14
Little Thumb Creek	YLT	Wyoming,U.S.A.	44.4370N	110.5880W	2439	
Littleton	U59A	North Carolina,U.S.A.	36.3526N	77.7925W	99	From 2013-03-21
Liugui	SLGT	Taiwan region	22.9934N	120.6463E	255	From 2011-12-27
Liuqiu	WLCH	Taiwan region	22.3508N	120.3788E	14	From 2011-12-30
Liverpool	LVR	England,United Kingdom	53.4167N	2.9333W	60	
Livingston	LTL	U.S.A.	30.5374N	90.7660W	21	
Livingston	147A	Alabama,U.S.A.	32.6738N	88.2708W	57	From 2011-04-10
Livramento-PB	NBLI	Paraiba,Brazil	7.3645S	36.9497W	624	From 2011-07-18
Liwa	LWLI	Sumatera,Indonesia	5.0175S	104.0589E	938	From 2005-01-01
Lixouri, Cephalonia isl., Greece	LXR1	Greece	38.2007N	20.4382E	0	From 2014-01-29
Liyang	LYP	Luzon,Philippines	14.6334N	120.4851E	100	
Liyutan	TWQ1	Taiwan region	24.3480N	120.7730E	260	
Ljotipollur	LJO	Iceland	64.0235N	19.0230W		
Ljubljana	LJU	Slovenia	46.0438N	14.5274E	396	
Llanada	LLA	California,U.S.A.	36.6167N	120.9430W	475	From 1961-01-01
Llanberis	YLL	Wales,United Kingdom	53.1402N	4.1704W	162	From 1984-01-01
Llano	LLAC	California,U.S.A.	34.8455N	117.4855W	1018	
Llanos de Challe	AC04	Atacama	28.2046S	71.0739W	249	From 2014-02-08
Llanuwychllyn	LLW	Wales,United Kingdom	52.8492N	3.6650W	213	
Llaves	U22A	New Mexico,U.S.A.	36.3773N	106.8546W	2119	From 2008-05-22 to 2010-04-03
Llico	LLIC	Bio-Bio,Chile	37.2293S	73.5942W	70	
Llivia	CLLI	Spain	42.4792N	1.9741E	1411	
Lloa	LLOA	Ecuador	0.2328S	78.5608W	3265	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Llolleo	LLCH	Santiago,Chile	33.6105S	71.6182W	30	
Llyn Conwy	WLC	Wales,United Kingdom	52.9956N	3.7788W	440	From 1985-01-01
Llynfaes	WLF1	Wales,United Kingdom	53.2894N	4.3966W	58	From 1985-01-01
LNY01	LNY01	Saudi Arabia	25.2200N	37.9600E	828	
LNY02	LNY02	Saudi Arabia	25.1378N	37.8610E	1142	
LNY03	LNY03	Saudi Arabia	25.3799N	37.8543E	631	
LNY04	LNY04	Saudi Arabia	25.2716N	37.6450E	508	
LNY05	LNY05	Saudi Arabia	25.0460N	37.6953E	620	
LNY06	LNY06	Saudi Arabia	25.2098N	37.7781E	1044	
LNY07	LNY07	Saudi Arabia	25.1296N	37.5699E	406	
LNY08	LNY08	Saudi Arabia	25.0330N	37.8500E	1205	
LNY09	LNY09	Saudi Arabia	25.4012N	37.6614E	650	
LNY10	LNY10	Saudi Arabia	25.2700N	37.8620E	907	
LNY11	LNY11	Saudi Arabia	25.3170N	37.7728E	1015	
LNY12	LNY12	Saudi Arabia	25.2715N	37.7717E	994	
LNY13	LNY13	Saudi Arabia	25.1724N	37.6332E	524	
LNY14	LNY14	Saudi Arabia	25.2536N	37.7661E	1007	
LNY15	LNY15	Saudi Arabia	25.2600N	37.7960E	1002	
LNY16	LNY16	Saudi Arabia	25.3510N	37.5980E	489	
LNY17	LNY17	Saudi Arabia	25.2422N	37.8028E	1000	
Lobatse	LBTB	Botswana	25.0145S	25.5970E	1028	From 1993-01-01
Lobethal	LBTL	South Australia,Australia	34.9052S	138.8599E	425	From 2012-02-01
Lobios	ELOB	Spain	41.8674N	8.0611W	980	
Localit^ Poggio-Vacaldola (Sant'Agata Feltria RN)	PR02	Italy	43.8586N	12.1569E	520	From 2011-05-25
Localit^ San Martino (Sarsina - FC)	T0502	Italy	43.9006N	12.1371E	467	From 2011-05-25
Loc. Casaglia - Ferrara (FE)	T0821	Italy	44.9035N	11.5405E	2	From 2012-05-20 to 2012-12-17
Loc. Cortile, Carpi (MO)	T0814	Italy	44.7933N	10.9692E	15	From 2012-05-20 to 2012-09-19
Loc. Fossa, Concordia sulla Secchia (MO)	T0818	Italy	44.9348N	11.0304E	4	From 2012-05-20 to 2012-09-19
Loc. Fossoli, Carpi (MO)	T0828	Italy	44.8308N	10.9143E	12	From 2012-05-30 to 2012-09-19
Loch Awe, Argyll & Bute	LAWE	Scotland,United Kingdom	56.2601N	5.3990W	137	From 2012-10-30
Loch Inver, Assynt	LINV	Scotland	58.1470N	5.1970W	57	From 2014-09-04
Lock 6	LGKY	Kentucky,U.S.A.	37.9260N	84.8200W	128	From 1983-11-01 to 1988-04-13
Lock 6	L6KY	Kentucky,U.S.A.	37.9260N	84.8200W		
Locke Island	LOCW	Washington,U.S.A.	46.7170N	119.4308W	210	From 1982-11-01
Lockesburg	Y39A	Arkansas,U.S.A.	33.9380N	94.0936W	108	From 2010-04-29 to 2012-01-28
Lockeyer	E48A	Ontario,Canada	46.4809N	82.1653W	347	From 2012-11-02
Lockhart	LOKY	Kentucky,U.S.A.	37.2370N	88.2950W	230	From 1992-12-01
Lockwood Valley	LOK	California,U.S.A.	34.7245N	119.0910W	1570	
Loc. Limidi di Soliera, Soliera (MO)	T0824	Italy	44.7594N	10.9276E	71	From 2012-05-26 to 2012-09-19
Loc. Pratieghi (Badia Tedalda - AR)	T0503	Italy	43.7399N	12.1008E	865	From 2011-05-25
Loc. Stoppiaro, Poggio Rusco (MN)	T0812	Italy	44.9547N	11.1810E	7	From 2012-05-20 to 2012-09-19
Loc. Veratica, Salara (RO)	T0817	Italy	44.9916N	11.4559E	-1	From 2012-05-20 to 2012-09-18
Lodge	LDG	Alabama,U.S.A.	33.2905N	87.5350W	95	
Lodge Grass	G21A	Montana,U.S.A.	45.2250N	107.2070W	1227	From 2008-07-24 to 2010-08-11
Lodgepole	LGPLA	Alberta,Canada	53.1144N	115.3560W	883	From 2013-10-25
Lodgepole	F26A	South Dakota,U.S.A.	45.8512N	102.6697W	852	From 2009-07-12 to 2011-06-23
Lodi Road	LDR	Delhi,India	28.5833N	77.2167E		
Lodumlu	LOD	Turkey	39.8890N	32.7640E	902	
Lodwar	LODK	Kenya	3.4219N	35.3616E	663	From 2011-09-26
Loei	LOE	Thailand	17.4063N	101.7300E	259	From 1984-08-01
Loei	LOEI	Thailand	17.5093N	101.2644E	305	
Loerrach-Stetten	LOES	Baden-Wurttemberg,Germany	47.6047N	7.6663E	307	From 2004-06-16
Lofoten	LOF	Norway	68.1310N	13.5420E	80	From 1987-01-01
Logan	LOG	Utah,U.S.A.	41.7417N	111.8130W	1455	
Logan Glacier	LOGN	Alaska,U.S.A.	60.8245N	141.0028W	1665	
Loganville	J41A	Wisconsin,U.S.A.	43.3655N	90.0137W	360	From 2011-06-16 to 2013-06-06
Log Cabin	LCA	Alabama,U.S.A.	33.3067N	87.4683W	132	From 1971-01-09
Logie Almond	ELO	Scotland,United Kingdom	56.4706N	3.7119W	495	From 1969-01-01
Loginova	LGNR	Kamchatskaya Oblast',Russia	56.0828N	160.6897E	2500	
Logrono	LGR	Spain	42.4578N	2.5032W	446	From 1963-01-01 to 1989-11-30
Logumkloster	NE03	Denmark	55.0450N	9.1530E	25	From 1983-02-01 to 2001-07-28
Lohaghat	LGTI	India	29.4500N	80.2463E	0	
Lohaghat	LGAT	Nepal	29.4500N	81.8333E		
Loja	ALOJ	Spain	37.1090N	4.1050W	1340	
Lokbatan	LKB	Azerbaijan	40.3050N	49.7150E	30	From 1980-01-01
Lokris	LKR	Greece	38.6506N	22.9994E	180	From 1997-01-01
Loma Alta	LALZ	El Salvador	13.5393N	88.5422W	474	
Loma Carmona	SACA	Dominican Republic	18.9775N	69.6803W		From 1986-07-12
Loma Colora	SDD01	Dominican Republic	19.1235N	69.9732W	165	
Loma de el Viento	LEV	Venezuela	7.7661N	63.0607W	337	
Loma El Cafe	SDD07	Dominican Republic	18.7828N	70.2223W	620	
Loma El Joboban	MAVI	Dominican Republic	19.2457N	69.9117W		From 1986-09-07
Loma El Mogote	SDD04	Dominican Republic	19.4835N	70.4855W	905	
Loma en Medio	LOMO	Dominican Republic	18.8767N	68.8613W	0	
Loma La Ceniza	SDD03	Dominican Republic	19.3370N	70.0685W	410	
Loma La Naviza	DR08	Dominican Republic	18.9623N	70.0217W	640	
Loma La Naviza	DR8	Dominican Republic	18.9624N	70.0217W		
Loma Manaclilla	SDD05	Dominican Republic	19.1017N	70.4478W	425	
Loma Pena Alta	DR12	Dominican Republic	18.7878N	69.3807W	640	
Loma Prieta	JLPM	California,U.S.A.	37.1110N	121.8430W	1152	
Loma Quita	QUES	Dominican Republic	19.3530N	70.1480W	0	
LOMAS DE OLMEDO	ALOL	Salta,Argentina	23.8148S	63.9822W	500	From 1996-10-25
Loma Siseviere	SDD02	Dominican Republic	19.6035N	69.9483W	440	
Loma Yayales	SDD08	Dominican Republic	18.9885N	69.6922W	325	
Lome	LOM	Togo	6.1217N	1.2133E	5	
Lometa	334A	Texas,U.S.A.	31.3325N	98.2379W	389	From 2009-11-14 to 2011-10-03
Lo Mia Camp, Pine	X16A	Arizona,U.S.A.	34.4178N	111.4411W	1759	From 2007-03-30 to 2010-05-28
Lomita	LOMS	California,U.S.A.	33.7952N	118.2790W	-173	From 1989-12-20
Lom-Kozlod	KOZAM	Bulgaria	43.8274N	23.2364E	76	From 2012-11-20
Lomont	LOMF	Franche Comte,France	47.3508N	6.8275E	1000	
Lompoc	BLP	California,U.S.A.	34.5603N	120.4000W	134	From 1969-11-01
London (Ont)	LND	Ontario,Canada	43.0410N	81.1830W	246	From 1961-12-07 to 1967-05-31
London (Ont)	LDN	Ontario,Canada	43.0400N	81.1833W	246	From 1975-06-01
Lone Oak Road	PLOM	California,U.S.A.	36.2465N	121.0430W	308	From 1970-08-14
Lone Oak Road	LRC	California,U.S.A.	36.2465N	121.0430W	308	From 1970-08-14
Lone Pine	LN9	California,U.S.A.	36.5944N	118.1850W	500	
Lone Star	LST	Missouri,U.S.A.	36.5230N	89.7310W	83	
Lone Tree Farm, Eben Junction	E43A	Michigan,U.S.A.	46.3758N	86.9954W	303	From 2011-09-11 to 2013-11-26
Lone Tree Road	HLTM	California,U.S.A.	36.8845N	121.3080W	183	From 1970-08-17
Lone Tree Road	LTR	California,U.S.A.	36.8845N	121.3080W	183	From 1970-08-17
Long Farm, Magnolia	Z40A	Arkansas,U.S.A.	33.2584N	93.3995W	78	From 2011-02-05 to 2012-11-10
Long Ground	MLGT	Montserrat	16.7250N	62.1623W	287	
Long Hollow	LOHW	Wyoming,U.S.A.	43.6124N	110.6040W	2121	From 1986-01-01
Longido	MAUS	Tanzania,United Republic of Tanzania	2.7400S	36.7000E	1334	
Longmire	LON	Washington,U.S.A.	46.7500N	121.8100W	854	From 1958-03-12
Longmont	O24A	Colorado,U.S.A.	40.1227N	105.0729W	1553	From 2008-07-03 to 2010-05-17
Long Mynd	HLM1	Wales,United Kingdom	52.5184N	2.8807W	429	From 1984-01-01
Longovilo	LNV	Valparaiso,Chile	33.9558S	71.4108W	160	From 1972-01-01
Long Quarter, Great Bend	R32A	Kansas,U.S.A.	38.4225N	98.7111W	573	From 2009-10-28 to 2011-08-25
Longridge	LLO	England,United Kingdom	53.8503N	2.5598W	247	From 1989-01-01 to 1991-10-14
Long Valley	LG-AZ	Arizona,U.S.A.	34.4078N	111.5458W	1768	From 1964-04-02 to 1965-10-04
Long Valley	LVNJ	New Jersey,U.S.A.	40.8095N	74.7650W	201	From 1977-06-08
Long Valley	LG-	Arizona,U.S.A.	34.4078N	111.5458W	1768	From 1964-04-02 to 1965-10-04
Longview Farm, Lees Summit	Q37A	Missouri,U.S.A.	38.8763N	94.4522W	297	From 2010-03-24 to 2012-09-14
Lonorore	LNR	Vanuatu	15.8519S	168.1600E	8	
Lookout	M05C	California,U.S.A.	41.3593N	121.1457W	1333	From 2005-06-29 to 2007-10-10
Lookout Mountain	LKGA	Georgia,U.S.A.	34.6233N	85.4722W	655	From 1985-12-05
Lookout Mountain	LMCR	California,U.S.A.	37.7280N	118.9469W	2501	From 1979-11-01
Lookout Mountain Observatory	LMO	California,U.S.A.	34.1086N	118.3880W	392	From 1971-02-12 to 1973-06-30
Lookout Mountain Observatory	LMS	California,U.S.A.	34.0692N	118.4400W	131	
Lookout Peak	LOP	Nevada,U.S.A.	36.8544N	116.1677W	1714	From 1979-01-23 to 2002-10-10
Look Rock	LRKT	Tennessee,U.S.A.	35.6340N	83.9240W	780	From 1983-10-25
Lopu atari	LOPT	Romania	45.4740N	26.5691E	780	
Lorado	LRDO	Arkansas,U.S.A.	35.9692N	90.6953W	137	From 1988-12-01
Lorca	EXLO	Spain	37.6760N	1.7000W	407	
Lorca, Murcia	TLOR	Spain	37.6559N	1.6889W	370	From 2011-08-01
Lorch/Rhein	WBD	Hessen,Germany	50.0847N	7.8570E	229	From 2001-11-30
Lord Howe Island	LHI	New South Wales,Australia	31.5200S	159.0631E	73	From 2007-07-08
Loretta	F39A	Wisconsin,U.S.A.	45.9153N	90.9190W	440	From 2011-09-08 to 2013-07-11

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Lorgues	LRG	Provence-Cote d'Azur,France	43.4547N	6.3603E	110	
Loris	Y59A	South Carolina,U.S.A.	33.9897N	78.8737W	2	From 2013-06-26
Lormes	LOR	Bourgogne,France	47.2683N	3.8589E	520	
Lorqui	EXLR	Spain	38.0820N	1.2530W	115	
Los Alamitos	LNAS	California,U.S.A.	33.7892N	118.0550W	-50	From 1972-05-01
Los Alamos	LOA	New Mexico,U.S.A.	35.8247N	106.2940W	2144	From 1972-01-12 to 1999-08-25
Los Alamos Infrasonic Array Beam Ref. Pt.	LSIAR	New Mexico,U.S.A.	36.7681N	106.3340W		
Los Alamos Infrasonic Array Site 1	LSI01	New Mexico,U.S.A.	36.7681N	106.3340W		
Los Alamos Infrasonic Array Site 2	LSI02	Colorado,U.S.A.	36.8619N	105.2269W		
Los Alamos Infrasonic Array Site 3	LSI03	New Mexico,U.S.A.	36.9657N	105.3340W		
Los Alamos Infrasonic Array Site 4	LSI04	New Mexico,U.S.A.	36.8619N	107.4411W		
Los Angeles Museum of Natural History	LCM	California,U.S.A.	34.0178N	118.2870W		From 1971-08-01
Los Banos	LBPH	Luzon,Philippines	14.1540N	121.1800E	300	
Los Chiles	LCH0	Costa Rica	11.0750N	84.6963W	89	
Los Chiles	ACLS	Costa Rica	11.0312N	84.7176W	41	
Los Chungos	CHNG	Coquimbo,Chile	31.8828S	71.4998W	27	From 2005-03-12
Los c‸‡rdobas, Cordoba	LCBC	Colombia	8.8570N	76.3680W	75	From 2013-11-17
Los Guajares, Granada	ELGU	Spain	36.8678N	3.6266W	847	From 2011-10-26
Los Guarumos	LGUZ	El Salvador	13.6447N	88.5613W	220	
Los Lagos	LOLA	Costa Rica	10.4900N	84.7137W	550	
Los Molles	MOCH	Valparaiso,Chile	32.2319S	71.5069W	15	
Los Montesinos	ETRV	Spain	38.0203N	0.7627W	39	
Los Morros	CEN1	Antofagasta,Chile	23.3897S	70.2000W	1090	From 2005-09-16
Los Niches	NICH	Maule,Chile	35.0026S	71.2296W	220	From 2004-06-03
Los Osos Digital	LSDC	California,U.S.A.	35.2973N	120.8430W	244	
L'Ospedale	OSPF	Corse,France	41.6632N	9.1915E	965	From 2003-01-01
Los Peladeros	CO04	Coquimbo	32.0433S	70.9747W	2408	From 2014-02-07
Los Pinos Mountain	LPM	New Mexico,U.S.A.	34.3117N	106.6320W	1737	From 1976-01-01
Los Pintados	PINT	Chile	20.7613S	69.3973W	1146	From 2009-12-05
Los Queltehues	LQT	Santiago,Chile	33.8147S	70.2119W	1400	From 1976-06-26
Los Roques	LORO	Venezuela	11.9520N	66.6768W	69	From 1984-01-01
Lossen Ranch, Watonga	V33A	Oklahoma,U.S.A.	35.8209N	98.2862W	420	From 2009-10-31 to 2011-09-01
Losser	NE31	Netherlands	52.2641N	7.0066E	35	
Los Tablones	LTG	Guatemala	14.9625N	90.1553W	928	From 1978-06-01 to 1999-08-25
Lost Marbles Ranch, Westfall	I09A	Oregon,U.S.A.	43.9733N	117.7407W	950	From 2006-07-27 to 2008-07-11
Lostock Dam	LOSM	New South Wales,Australia	32.3304S	151.4556E	109	
Los Trancos	JLTM	California,U.S.A.	37.3537N	122.2040W	270	From 1966-12-15
Los Trancos Road	JTRM	California,U.S.A.	37.3522N	122.1980W	251	
Los Trancos Woods	LTW	California,U.S.A.	37.3537N	122.2040W	270	From 1966-12-15
Lost Valley Reservoir	LVRI	Idaho,U.S.A.	44.9447N	116.4520W	1700	From 1991-08-01
Losuia	LOSU	D'Entrecasteaux Islands,Papua New Guinea	8.5119S	151.0740E	10	From 1983-12-08
Los Vilos	VICH	Coquimbo,Chile	31.9112S	71.5104W	44	
Lot 18 Range III Mazenod Township	D51A	Quebec,Canada	47.0904N	79.3733W	282	From 2012-10-23
Lotru	LOT	Romania	45.4481N	23.7694E	1240	
Loudon	V51A	Tennessee,U.S.A.	35.8033N	84.3511W	243	From 2012-05-08
Louisa	IP03	Virginia,U.S.A.	38.0205N	78.0147W	152	
Louis Bay	LOU	Alaska,U.S.A.	60.4655N	147.6440W	490	
Louis Trichardt	LTT	Cape Province,South Africa	29.7233S	23.0150E	1006	
Louisville	Z46A	Mississippi,U.S.A.	33.1933N	88.9414W	125	From 2011-04-17 to 2013-01-29
Loup City	LCNC	Nebraska,U.S.A.	41.3083N	98.9387W	671	
Loup City	LCNE	Nebraska,U.S.A.	41.3083N	98.9387W	671	
Lourdes	PYLO	Midi-Pyrenees,France	43.0982N	0.0478W	407	From 2001-07-24
Loures	PLOU	Portugal	38.8852N	9.1518W	180	
Loutraki	LOUT	Greece	37.9879N	22.9743E	307	From 2010-05-27
Loutraki	LTK	Greece	38.0230N	22.9670E	410	From 2006-01-01
Loutraki	LTRA	Greece	37.9754N	22.9766E	100	From 2008-03-15
Lovejoy Buttes	LJB	California,U.S.A.	34.5912N	117.8480W	899	From 1977-12-01
Lovelace Mesa, Carrizozo	Y23A	New Mexico,U.S.A.	33.9315N	106.0549W	1789	From 2008-04-12 to 2010-03-12
Lovelock	LO-NV	Nevada,U.S.A.	39.9353N	118.8394W	1280	From 1963-02-23 to 1963-03-29
Lovelock	LO-	Nevada,U.S.A.	39.9353N	118.8394W	1280	From 1963-02-23 to 1963-03-29
Lovelock	LVK	Nevada,U.S.A.	40.1870N	118.5250W	1225	From 1969-11-05 to 1975-11-30
Lovikneset	N2B3	Norway	61.8250N	4.9530E	10	
Lovozero	LVZ	Karel'skaya,Russia	67.8979N	34.6514E	630	
Lower Browns Hole	LBUT	Utah,U.S.A.	41.3097N	111.7320W	1768	From 1978-06-01 to 1981-05-31
Lower Mag Wash	LWA	Utah,U.S.A.	38.4903N	112.8610W	1817	
Loyalton	LOY	California,U.S.A.	39.6586N	120.2368W	1582	
Loznitsa	LOZB	Bulgaria	43.3701N	26.5930E	342	From 2012-11-20
Lualailua	LLAH	Hawaii,U.S.A.	20.6270N	156.3103W	683	
Luanda	LUA	Angola	8.5000S	13.2333E	69	
Lubang	LUBP	Mindoro,Philippines	13.7340N	120.2460E	50	
Lubbock	LUB	Texas,U.S.A.	33.5833N	101.8670W	979	From 1948-06-01
Lubilhac	LBL	Auvergne,France	45.2323N	3.2470E	950	
Luboga	LBGA	Democratic Republic of the Congo	1.2650S	29.1170E	1850	
Lubrecht Forest	LFM	Montana,U.S.A.	46.8898N	113.4530W	1256	From 1974-08-02 to 1976-10-04
Lubudi	LBC	Democratic Republic of the Congo	9.9000S	25.9833E	1375	From 1966-12-01 to 1999-08-25
Lubumbashi	LBB	Democratic Republic of the Congo	11.6300S	27.4800E	1283	
Lubumbashi	ELI	Democratic Republic of the Congo	11.6500S	27.4667E	1245	
Luby	LUBY	Czech Republic	50.2602N	12.3592E	625	
Luby	LBCW	Czech Republic	50.2655N	12.4123E	638	From 2000-01-01
Lucas Creek	LCW	Washington,U.S.A.	46.6707N	122.7008W	396	
Lucas Heights	LHBM	New South Wales,Australia	34.0537S	150.9786E	168	
Lucca	TLUC	Italy	43.9130N	10.5250E	109	From 1998-03-28
Lucedale	LD3MS	Mississippi,U.S.A.	30.6661N	89.0436W	46	
Lucedale	447A	Mississippi,U.S.A.	30.7952N	88.6542W	34	From 2011-03-18 to 2012-12-13
Lucedale	LD-MS	Mississippi,U.S.A.	30.9500N	88.8833W	70	From 1966-11-13 to 1966-12-03
Lucedale	LD-	Mississippi,U.S.A.	30.9500N	88.8833W	70	From 1966-11-13 to 1966-12-03
Lucedale	LD2MS	Mississippi,U.S.A.	30.8528N	88.5406W	79	
Luceram	LUCF	Provence-Cote d'Azur,France	43.8925N	7.3462E	1087	From 2006-05-17
Lucky Boy Pass	LBP	Nevada,U.S.A.	38.4320N	118.7390W	2280	
Lucky Star	LSUT	Utah,U.S.A.	41.6848N	111.5580W	2225	From 1979-11-01 to 2004-03-11
Lucoli (AQ)	RM01	Italy	42.2767N	13.3356E	1350	From 2009-04-06 to 2009-08-31
Lucq-de-Bearn	LDBL	Aquitaine,France	43.3189N	0.6139W	250	
Luda	DAI	Liaoning,China	38.9000N	121.6330E	97	
Luebbering	R42A	Missouri,U.S.A.	38.2804N	90.7944W	218	From 2011-07-25 to 2013-04-13
Luepa	LUEV	Venezuela	5.8430N	61.4610W	1380	From 2003-06-04
Luganville	LUG	Vanuatu	15.5178S	167.1300E	150	
Lugnano (Citt‸ di Castello) - PG	AT02	Italy	43.3681N	12.1744E	360	From 2010-04-01
Lugo	EXLU	Spain	43.0120N	7.5540W	466	
Lukban	LQP	Luzon,Philippines	14.1120N	121.5390E	1650	
Luk Keng	HKLK	Hong Kong,China	22.5138N	114.2106E	90	From 1997-04-23
Lukmanier-Pass	LUKA1	Switzerland	46.5647N	8.8001E	1921	From 2005-12-15
Lumberton	LU-MS	Mississippi,U.S.A.	31.0389N	89.2389W	91	
Lumbreras	ALUM	Salta,Argentina	25.2382S	64.8787W	812	
Lummi Island	A04D	Washington,U.S.A.	48.7201N	122.7063W	13	
Lumpkin	252A	Georgia,U.S.A.	31.9962N	84.7357W	142	From 2012-03-11
Lumpola	LUMP	Xizang Zizhiqu,China	31.8991N	89.9325E	4619	From 1997-07-11 to 1998-07-15
Lunacharskoye	LNC	Uzbekistan	41.3333N	69.3500E		
Lund	LUNU	Sweden	55.6320N	13.4460E	128	From 2008-02-21
Lund	LUN	Sweden	55.6983N	13.1867E	32	
Lundy Lake	LUL	California,U.S.A.	38.0522N	119.1813W	2243	
Luning	LNG	Nevada,U.S.A.	38.6150N	118.2100W		
Lunz Road, Clintonville	WI03	Wisconsin,U.S.A.	44.6529N	88.7335W	262	
Luogosano	LGS3	Italy	40.9865N	14.9906E	413	
Lupin Mine	LUPN	Northwest Territories,Canada	65.7383N	111.2569W	505	
Luque	ELUQ	Spain	37.5605N	4.2668W	703	From 1992-01-23
Luri	LURI	Corse,France	42.8988N	9.3958E	180	From 1989-11-01
Lusaka	LSZ	Zambia	15.2766S	28.1882E	1184	From 1984-01-01
Lusaka	LUS	Zambia	15.3837S	28.3312E	1259	From 1971-01-01 to 1999-08-25
Lussari	LSR	Italy	46.4758N	13.5278E	1750	From 1988-01-01
Lutao	TWH	Taiwan region	22.7103N	121.4773E	50	From 1974-09-17
Lutertal, Dagmarsellen	DAGMA	Switzerland	47.2308N	8.0125E	559	From 2013-04-11
Luther M School	OK005	Oklahoma,U.S.A.	35.6549N	97.1911W	298	
Lutirano	LMD	Italy	44.0775N	11.7073E	450	
Luwuk	LUWI	Sulawesi,Indonesia	1.0418S	122.7717E	6	From 2008-03-09
Luxembourg	LUX	Luxembourg	49.6000N	6.1333E		
Luz	PLUZ	Azores,Portugal	39.0164N	27.9773W	98	From 2005-08-01
Luzern Bramberg	SLUB	Switzerland	47.0579N	8.3055E	508	From 2011-12-01
Luzern Kirche, LU	SLUK	Switzerland	47.0479N	8.3083E	435	From 2013-11-30
Luzern Werkhofstrasse	SLUW	Luzern,Switzerland	47.0463N	8.3179E	436	From 2010-12-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Luzern Zentralbibliothek	SLUZ	Switzerland	47.0483N	8.3077E	435	From 2012-05-30
Luzhba, Kemerovskaya Oblast', Russia	LUZB	Kemerovskaya Oblast',Russia	53.6611N	88.9001E	489	From 2006-01-01
L'vov	LVV	Ukraine	49.8190N	24.0310E	320	
Lwiro	LWI	Democratic Republic of the Congo	2.2393S	28.8025E	1772	From 1953-01-01
Lyangar	LNA	Tajikistan	38.4000N	69.3500E	2200	From 1964-01-01
Lyman	M18A	Wyoming,U.S.A.	41.4272N	110.0674W	2103	From 2007-10-27 to 2009-05-21
Lyman	LYW	Washington,U.S.A.	48.5353N	122.1020W	107	From 1975-04-16
Lynden	LY-WA	Washington,U.S.A.	48.6475N	122.2028W	122	
Lyndonville	H61A	Vermont,U.S.A.	44.5339N	71.9271W	462	From 2013-09-21
Lynn Haven	552A	Florida,U.S.A.	30.1327N	85.2938W	17	From 2012-02-06
Lynnwood City Hall ANSS-SMO	LYNC	Washington,U.S.A.	47.8255N	122.2938W	19	From 2005-02-08
Lyon Mountain	LYMT	Montana,U.S.A.	46.9700N	112.2895W	2237	From 1996-08-31
Lyons Estate	DLE	Ireland	53.2872N	6.5436W	140	From 1980-04-25 to 1990-12-31
Lyons Farm	DLF	Ireland	53.2958N	6.5314W	96	From 1990-08-01
Lysite	J21A	Wyoming,U.S.A.	43.3459N	107.4459W	1913	From 2008-08-07 to 2010-09-11
Lytham Saint Anne's	LLY	England,United Kingdom	53.7975N	2.9069W	33	From 1989-01-01
M12	M12	Hawaii,U.S.A.	19.3948N	155.3080W	1116	From 1972-12-01 to 1973-02-28
Ma'ale Noah	NOH	Israel	30.6890N	34.9620E	680	
Maan	HSNJ	Jordan	30.2560N	35.6870E	1180	
Maars	MRS	Alaska,U.S.A.	57.8567N	156.4890W	131	From 1977-05-20
Maaselka	MSF	Finland	65.9113N	29.0402E	365	
Maasin	MSLP	Leyte,Philippines	10.1340N	124.8590E	50	
Mabed	MABD	Egypt	22.9726N	32.3258E	280	
Mabujiaxiang, Xizang Zizhiqu	MAZA	Xizang Zizhiqu,China	28.6713N	87.8553E	4367	From 2002-07-24 to 2002-11-07
Macae	CAM1	Rio de Janeiro,Brazil	22.3978S	41.8338W	139	
Macagua	GMC	Venezuela	8.3000N	62.6833W		
Macapa, AP	MCPB	Para	0.3602S	52.0567W	127	From 2014-07-28
Macapo	MAPV	Venezuela	9.8308N	68.4573W	355	From 2008-01-16
Macar^¡, Loja	MCRA	Ecuador	4.3697S	79.9544W	540	From 2012-08-24
Macarena, Meta	MACC	Colombia	2.1452N	73.8476W	283	From 2013-05-27
Macas	MACE	Ecuador	2.2549S	78.1985W	1553	From 2006-01-22
Macchia Valfortore	MVF	Italy	41.5944N	14.9102E	439	From 2003-10-01
Macdoel	M04C	California,U.S.A.	41.7826N	121.8393W	1391	From 2005-06-30 to 2007-10-23
Macedon	MACM	Victoria,Australia	37.4303S	144.6910E	576	
Machiques	MCQV	Venezuela	10.0499N	72.5350W	120	From 2014-10-02
Machiques	MCHV	Venezuela	10.0460N	72.5800W	0	
Machtesh Katan	MKT	Israel	30.9480N	35.1520E	520	From 1983-01-01
Macinaw City Comets, Mackinaw City	F46A	Michigan,U.S.A.	45.7737N	84.7586W	198	From 2011-10-10 to 2013-06-12
Mackay	I14A	Idaho,U.S.A.	43.9286N	113.4518W	1897	From 2007-08-13 to 2009-08-13
MacKay Lake North	MCKN	Northwest Territories,Canada	64.1980N	110.2132W	431	
Mackay Peak	MCPI	Idaho,U.S.A.	43.9003N	113.7040W	2902	From 1983-11-01
MacKenzie Ranch, Jordan Valley	K10A	Oregon,U.S.A.	42.7779N	116.8705W	1701	From 2006-12-16 to 2008-07-24
Mack Ranch, Harrison	K25A	Nebraska,U.S.A.	42.6120N	103.8705W	1437	From 2008-11-15 to 2010-10-02
Macquarie Island	MQI	Macquarie Islands,Australia	54.5200S	158.9300E	250	
Macquarie Island	MCQ	Macquarie Islands,Australia	54.4986S	158.9560E	14	From 1950-06-01
Mactan	MAP	Cebu,Philippines	10.3228N	123.9807E	137	From 1980-01-22
Macugnaga	MCGN	Italy	45.9575N	7.9878E	1185	
Madang	MDG	Papua New Guinea	5.2501S	145.7800E	27	From 1974-12-01
Madang	MAD	Papua New Guinea	5.2333S	145.8000E		
Maddies Station, St. Elizabeth	R40A	Missouri,U.S.A.	38.2909N	92.2684W	213	From 2010-12-09 to 2012-09-13
Maddock	MDND	North Dakota,U.S.A.	47.8481N	99.6029W	479	From 2008-09-03
Madeira	PMAR	Madeira Islands,Portugal	32.7237N	16.9137W	1605	
Madeiral	SVMA	Cape Verde Islands	16.8400N	24.9200W	195	From 2013-03-21
Madeleine	MADF	Aquitaine,France	43.1457N	0.8195W	535	
Madha	MDH	Oman	25.2987N	56.2983E	185	
Madison	MDS	Wisconsin,U.S.A.	43.3722N	89.7600W	278	From 1962-01-16 to 1968-06-10
Madison Junction	MJW	Wyoming,U.S.A.	44.6483N	110.8590W	2111	From 1964-01-01 to 1999-08-25
Madison River	YMR	Wyoming,U.S.A.	44.6687N	110.9650W	2149	
Madoc	MADO	Ontario,Canada	44.4360N	77.4708W	138	
Madonna delle Grazie (Coppito)	T0104	Italy	42.3599N	13.3382E	754	From 2009-04-07
Madras	MDR	Tamil Nadu,India	13.0000N	80.1833E	15	
Madras	H05A	Oregon,U.S.A.	44.6473N	121.2271W	720	From 2005-12-09 to 2008-01-30
Madrid	MDD	Spain	40.4000N	3.6833W		
Madrid Canyon Road, Trinidad	HGTCO	Colorado,U.S.A.	37.1075N	104.6740W	2109	
Madsous	MADS	Saudi Arabia	29.1080N	35.0730E	645	From 1993-09-01
Maebashi	MAE	Gumma,Japan	36.4017N	139.0650E	112	
Maebashi 2	MAEJ	Gumma,Japan	36.5377N	139.1795E	1665	From 1989-03-25
Maesarieng	MHMT	Thailand	18.1764N	97.9310E	164	
Maesberg Ranch, Thedford	L29A	Nebraska,U.S.A.	42.0641N	100.4779W	901	From 2009-06-04 to 2011-04-09
Mafinga	MAFI	Tanzania,United Republic of Tanzania	8.3057S	35.3133E	1866	
Mafra	PMAFR	Portugal	38.9554N	9.2827W	329	From 2006-07-31
Magadan	MA2	Magadanskaya Oblast',Russia	59.5753N	150.7680E	339	
Magadan	MAG	Magadanskaya Oblast',Russia	59.5540N	150.8050E	50	
Magadan 1	MGD	Magadanskaya Oblast',Russia	60.0460N	150.7300E	221	
Magadan Thermoelectric Plant	TEC1	Magadanskaya Oblast',Russia	59.5840N	150.7890E	65	
Magadi	MAGK	Kenya	1.9182S	36.2873E	660	From 1994-02-01
Magalia	MGL	California,U.S.A.	39.8117N	121.5580W	1010	From 1966-06-01
Magara	MGRA	Tanzania,United Republic of Tanzania	3.8100S	35.6905E	994	
Magasa	MAGA	Italy	45.7753N	10.6286E	1265	From 2006-06-21
Magazine	W39A	Arkansas,U.S.A.	35.1960N	93.7840W	162	From 2011-01-29
Magazine Ridge	OKFG	Alaska,U.S.A.	53.4107N	167.9115W	201	
Magdalena	MAGD	Ecuador	0.0685S	79.7738W	340	
Magdalena	MAG1	Ecuador	0.0722S	79.7733W	316	From 2005-08-24
Magdalena	MMG	Guatemala	14.5380N	90.6815W	2190	From 1975-03-01
Magdalen Islands	MADG	Gulf of St. Lawrence,Canada	47.2748N	61.6892W	78	From 2005-10-01
Mageik Landslide	MGLS	Alaska,U.S.A.	58.1343N	155.1608W	472	From 1996-08-01
Maghara	AMAG	Egypt	30.6430N	33.2083E	620	
Magodro	MGO	Fiji	17.7925S	177.7400E	726	From 1983-09-01
Magosa	MAGT	Cyprus	35.1000N	33.8700E	7	
Magoula, Dorida, Central Greece	MG00	Greece	38.4150N	21.9471E	141	From 2013-02-05
Magruder Mountain	MGM	Nevada,U.S.A.	37.4411N	117.4961W	2148	
Maguayo	MGPB	Puerto Rico	18.0500N	67.0400W	60	
Maguayo	MGP	Puerto Rico	18.0076N	67.0891W	60	From 1975-11-14
Magueyes Island, Lajas, Puerto Rico	MLPR	Puerto Rico	17.9694N	67.0442W	12	From 2012-03-01
Maguga Dam	MAGG	Swaziland	26.0739S	31.2668E	694	
Mag Wash	MWA	Utah,U.S.A.	38.4981N	112.8470W	1878	
Magyarpol^¡ny	MPLH	Hungary	47.1702N	17.5395E	307	From 2013-10-08
Mahabad	MAHB	Iran	36.7666N	45.7054E	1370	From 2013-03-10
Mahabad	IMAH	Iran	36.7666N	45.7167E	1344	From 1991-11-01
Mahableshwar	MAH	Maharashtra,India	17.8900N	73.6500E	1382	
Mahakanadarawa	MALK	Sri Lanka	8.3968N	80.5425E	110	From 2010-04-10
Mahdasht	IMHD	Iran	35.6853N	50.6675E	1150	From 1996-01-01
Mahe	SEY1	Seychelles	4.6150S	55.4908E	270	
Mahe Island	MSEY	Seychelles	4.6737S	55.4792E	475	
Mahia	MAHZ	North Island,New Zealand	39.1865S	177.8810E	336	From 1987-04-10 to 1997-08-04
Mahia Peninsula	MHGZ	North Island,New Zealand	39.1525S	177.9070E	302	From 2006-05-04
Mahoenui	MOZ	North Island,New Zealand	38.5040S	174.8032E	160	From 1989-09-28 to 2003-09-30
Mahon	MAHO	Balearic Islands,Spain	39.8959N	4.2665E	25	
Mahukona	MHA	Hawaii,U.S.A.	20.1878N	155.9030W	5	From 1983-01-01
Maiden Rock	H38A	Wisconsin,U.S.A.	44.6753N	92.2820W	333	From 2011-08-13 to 2013-06-06
Mailiao	WMLT	Taiwan region	23.8040N	120.2230E	12	From 2012-07-20
Mail Ridge	KMRM	California,U.S.A.	40.2220N	123.7086W	915	
Mains of Drumtochty	DRUM	Scotland,United Kingdom	56.9126N	2.4865W	208	From 2009-04-01
Maintong	ST12	Xizang Zizhiqu,China	31.6259N	89.8834E	4661	From 1998-07-08 to 1999-06-01
MAIO ISLAND INFRASONIC ARRAY REFERENCE POINT	MAIM	Cape Verde Islands	15.2573N	23.1839W	44	From 2007-05-30
Maiskii, Chutkotka	MKI	Magadanskaya Oblast',Russia	68.9670N	173.7140E	261	From 1982-08-01 to 1994-06-01
Maissana	MSSA	Italy	44.3162N	9.5174E	930	From 2008-11-21
Maitri	MAIT	Dronning Maud Land	70.7760S	11.7360E	132	
Maitube	MTBS	Kazakhstan	43.1300N	76.4290E	1050	From 1984-09-01
Maizieres J'ville	MEZF	Champagne-Ardenne,France	48.5019N	5.0519E	245	
Maizuru	MAI	Kyoto,Japan	35.4717N	135.3870E	31	
Maizuru	MZH	Kyoto,Japan	35.4483N	135.3200E	21	
Maizuru 2	MZH2	Kyoto,Japan	35.4017N	135.3933E	170	From 1994-02-24
Majene	MJSI	Sulawesi,Indonesia	3.5503S	118.9803E	97	From 2005-01-01
Majene	PMSI	Sulawesi,Indonesia	3.5008S	118.9149E	306	
Maji Moto Rd	MAJI	Tanzania,United Republic of Tanzania	3.6267S	35.2728E	1018	
Makambako	MAKM	Tanzania,United Republic of Tanzania	8.8437S	34.8302E	1683	
Makanchi	MAKZ	Kazakhstan	46.8080N	81.9770E	570	From 1996-09-14
Makanchi Array Beam Reference Point	MKAR	Kazakhstan	46.7937N	82.2904E	615	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Makanchi Array site	MK32	Kazakhstan	46.7937N	82.2904E	609	From 2000-08-28
Makanchi Array site	MK06	Kazakhstan	46.7751N	82.3133E	637	From 2000-08-28
Makanchi Array site	MK09	Kazakhstan	46.7744N	82.2769E	579	From 2000-08-28
Makanchi Array site	MK04	Kazakhstan	46.7715N	82.2951E	589	From 2000-08-28
Makanchi Array site	MK01	Kazakhstan	46.7700N	82.3003E	609	From 2000-08-28
Makanchi Array site	MK03	Kazakhstan	46.7656N	82.3015E	630	From 2000-08-28
Makanchi Array site	MK02	Kazakhstan	46.7694N	82.3086E	639	From 2000-08-28
Makanchi Array site	MK05	Kazakhstan	46.7937N	82.2913E	615	From 2000-08-28
Makanchi Array site	MK07	Kazakhstan	46.7538N	82.3156E	627	From 2000-08-28
Makanchi Array site	MK31	Kazakhstan	46.7937N	82.2904E	609	From 2000-08-28
Makanchi Array site	MK08	Kazakhstan	46.7561N	82.2866E	607	From 2000-08-28
Makaopuhi	MKA	Hawaii,U.S.A.	19.3678N	155.1640W	881	From 1964-03-01 to 2002-10-16
Makara Radio	MRW	North Island,New Zealand	41.2295S	174.6999E	231	From 1976-01-26 to 2008-06-18
Makarska	MAKA	Croatia	43.2877N	17.0197E	45	
Makassar	MKS	Sulawesi,Indonesia	5.2178S	119.4700E	28	From 1970-06-01
Makatiti	MKRZ	North Island,New Zealand	38.1384S	176.4672E	963	From 2003-05-23
Makawir	MKRJ	Jordan	31.5522N	35.6408E	815	From 1983-09-01
Makayla and Karen, Gunnison	Y43A	Mississippi,U.S.A.	33.9121N	90.9285W	46	From 2011-04-13 to 2013-02-24
Makeyevka	MKY	Ukraine	48.0333N	37.9833E		
Makhachkala	MAK	Dagestan,Russia	42.9610N	47.5050E	42	
Maki	MAKK	Kumamoto,Japan	32.9173N	130.9279E	440	
Makkovik	MKVL	Newfoundland,Canada	55.0923N	59.1840W	79	From 2011-07-26
Makna	MKNA	Saudi Arabia	28.4380N	34.8750E	650	From 1993-07-01
Makongolosi	LOSS	Tanzania,United Republic of Tanzania	8.4167S	33.1575E	1209	
Makrakomi, Fthiotida	MAKR	Greece	39.0132N	22.1317E	532	From 2008-06-18
Maku	MAKU	Iran	39.3548N	44.6833E	1730	From 2004-04-03
Makukawa	MAKT	Fukushima,Japan	37.6792N	140.2494E	1240	
Makushin Cirque	MCIR	Alaska,U.S.A.	53.9513N	166.8918W	800	From 1996-08-01
Makushin Gods Own Repeater Site	MGOD	Alaska,U.S.A.	53.7947N	166.8725W	695	From 1996-08-01
Makushin Julie Andrews	MSOM	Alaska,U.S.A.	53.8165N	166.9490W	50	From 1996-08-01
Makushin Nateekin	MNAT	Alaska,U.S.A.	53.8838N	166.6833W	390	From 1996-08-01
Makushin Rep'tr	MREP	Alaska,U.S.A.	53.8105N	166.7456W	785	
Makushin Switchbacks	MSW	Alaska,U.S.A.	53.9147N	166.7827W	418	From 1996-08-01
Makushin Table Top	MTBL	Alaska,U.S.A.	53.9693N	166.6785W	865	From 1996-08-01
Makuyuni	KWSI	Tanzania,United Republic of Tanzania	3.4728S	36.2050E	1400	
Makuyuni S	MAKS	Tanzania,United Republic of Tanzania	3.6027S	36.0832E	1089	
Malabar	MLB	Jawa,Indonesia	7.2167S	107.6170E	1550	From 1911-01-01 to 1945-12-31
Malad City	L15A	Idaho,U.S.A.	42.0041N	112.3860W	1645	From 2007-07-13 to 2009-05-05
Malad Range	MLI	Idaho,U.S.A.	42.0268N	112.1260W	1896	From 1974-10-01
Mala Drenova	MDRV	Serbia	43.6915N	21.0919E	0	
Malaga	MAL	Spain	36.7275N	4.4111W	60	From 1915-01-01
Malaga	EXMA	Spain	36.7260N	4.3930W	83	
Malaga-Limonero	EMAL	Spain	36.7620N	4.4292W	80	From 1993-05-20
Malaga, Loving	226A	New Mexico,U.S.A.	32.0618N	104.1014W	929	From 2008-03-22 to 2009-02-21
Malagash, Nova Scotia	MALG	Nova Scotia,Canada	45.7903N	63.3271W	22	From 2005-10-15
Malaho	MAOD	Djibouti	12.0944N	42.2253E	329	From 2004-01-01
Malamata, Dorida, Central Greece	MALA	Greece	38.3934N	21.8726E	-192	From 2012-12-15
Malargue	EDS3	Mendoza,Argentina	35.7703S	69.3992W	1500	From 2012-01-01
Malargue	PUMA	Mendoza,Argentina	35.4963S	69.4497W	500	From 2012-01-01
Malaspina Glacier	MLA	Alaska,U.S.A.	59.7633N	140.1500W	46	
Malaspina Glacier	MLP	Alaska,U.S.A.	59.7633N	140.1500W	46	
Malataya	MYA	Turkey	38.3261N	38.4253E	1050	
Malatya	MALT	Turkey	38.3134N	38.4273E	1120	
Malatya	MLTT	Turkey	38.3542N	38.3617E	1170	From 1992-10-01 to 2002-04-25
Malatya_Hekimhani	HEKM	Turkey	38.8790N	37.9591E	1859	From 2011-11-30
Malaya Ipel'ka	MIPR	Kamchatskaya Oblast',Russia	52.2761N	156.7581E	370	
Malazgirt-MUS	MLAZ	Turkey	39.1410N	42.5495E	1581	From 2012-11-26
Malden	MLDM	Missouri,U.S.A.	36.6250N	89.9195W	84	
Malden	MLD	Missouri,U.S.A.	36.5587N	89.9698W		From 1967-11-01 to 1969-11-30
Malga Bissina	MABI	Italy	46.0549N	10.5140E	1853	From 2003-12-17
Malga Garda, Italy	MGRD	Italy	45.9754N	12.0152E	1335	From 2010-06-08
Malibu	MABC	British Columbia,Canada	50.1647N	123.8560W	75	From 1991-03-20
Malinalco, Edo de Mexico	MAVM	Mexico	18.9572N	99.4942W	1824	From 2009-07-01
Malin Array Beam Reference Point	AKASG	Ukraine	50.7012N	29.2242E	160	
Malin Array Site 01	AK01	Ukraine	50.6911N	29.2131E	160	
Malin Array Site 02	AK02	Ukraine	50.6573N	29.2057E	170	
Malin Array Site 03	AK03	Ukraine	50.7263N	29.2217E	160	
Malin Array Site 04	AK04	Ukraine	50.7226N	29.1660E	160	
Malin Array Site 05	AK05	Ukraine	50.6197N	29.2036E	180	
Malin Array Site 06	AK06	Ukraine	50.5858N	29.1985E	190	
Malin Array Site 07	AK07	Ukraine	50.5507N	29.2044E	170	
Malin Array Site 08	AK08	Ukraine	50.6338N	29.2548E	122	
Malin Array Site 09	AK09	Ukraine	50.6151N	29.2846E	180	
Malin Array Site 10	AK10	Ukraine	50.5990N	29.2513E	180	
Malin Array Site 11	AK11	Ukraine	50.6784N	29.1677E	160	
Malin Array Site 12	AK12	Ukraine	50.6437N	29.1549E	180	
Malin Array Site 13	AK13	Ukraine	50.6123N	29.0606E	180	
Malin Array Site 14	AK14	Ukraine	50.6306N	29.1076E	180	
Malin Array Site 15	AK15	Ukraine	50.6951N	29.1240E	170	
Malin Array Site 16	AK16	Ukraine	50.6700N	29.1058E	170	
Malin Array Site 17	AK17	Ukraine	50.6851N	29.0574E	170	
Malin Array Site 18	AK18	Ukraine	50.7221N	29.0676E	170	
Malin Array Site 19	AK19	Ukraine	50.7222N	29.0116E	180	
Malin Array Site 20	AK20	Ukraine	50.7430N	29.0100E	170	
Malin Array Site 21	AK21	Ukraine	50.7764N	29.0419E	160	
Malin Array Site 22	AK22	Ukraine	50.7608N	29.0712E	160	
Malin Array Site 23	AK23	Ukraine	50.7625N	29.1254E	160	
Malin Array Site BB	AKBB	Ukraine	50.7012N	29.2242E	160	
Malindi	MALM	Malawi	14.3500S	35.3170E	496	
Malini	MII	Romania	47.4558N	26.0747E	400	
Malkovo	MLK4	Sakhalinskaya Oblast',Russia	46.7695N	143.3545E	10	From 2003-01-01
Mallet	U28A	Texas,U.S.A.	36.3793N	102.2243W	1165	From 2009-04-16 to 2010-11-09
Mallorca	ETOS	Balearic Islands,Spain	39.7678N	2.8144E	480	
Malnas	MSR	Romania	46.0381N	24.8214E	640	From 1982-09-01
Malnisio	MLNI	Italy	46.1500N	12.6100E	814	
Malo-Kuril'sk	MLK*	Sakhalinskaya Oblast',Russia	43.8667N	146.8170E		
Malo Peshtene	MPEP	Bulgaria	43.3560N	23.7401E	339	From 2007-05-10
Malpasso	EMLP	Sicily,Italy	37.6842N	15.1778E	115	From 1994-10-01
Malpelo	MAPC	Colombia	4.0037N	81.6065W	137	From 2009-06-28
Malta	MLT	Malta	35.9000N	14.4800E	18	From 1982-07-01
Malta	L14A	Idaho,U.S.A.	42.0343N	113.2398W	1528	From 2007-07-17 to 2009-05-08
Malvaux	MLV	Bourgogne,France	47.2655N	3.0387E		
Malvern	MCJ	Jamaica	17.9250N	77.6870W	755	From 1977-02-20
Mambajao	MAM	Mindanao,Philippines	9.2500N	125.6000E		From 1917-01-01 to 1935-12-31
Mamelis	MAME	Netherlands	50.8004N	5.9733E	160	From 2009-03-10
Mamie plateau, Yate, New Caledonia	YATNC	New Caledonia	22.0590S	166.8910E	237	From 2012-03-20
Mammari	MAMC	Cyprus	35.1710N	33.2180E	240	From 1998-11-16
Mammoth Hot Springs	MHS	Wyoming,U.S.A.	44.9770N	110.6850W		From 1964-01-01 to 1974-10-31
Mammoth Lakes	MLKM	California,U.S.A.	37.6641N	118.9765W	2644	
Mammoth Lakes Knolls	MMLB	California,U.S.A.	37.6591N	118.9791W	2656	
Mammoth, Mammoth Lakes	MLAC	California,U.S.A.	37.6302N	118.8361W	2162	From 1992-11-04
Mammoth Pass	MMPM	California,U.S.A.	37.6100N	119.0280W	2870	From 1983-08-26
Mammoth Summit	MMSM	California,U.S.A.	37.6304N	119.0317W	3324	
Mammoth Vault	YMV	Wyoming,U.S.A.	44.9737N	110.6888W	1829	
Mamou	MAMG	Guinea	10.2645N	11.9650W	773	From 1991-07-01
Mamou	442A	Louisiana,U.S.A.	30.7119N	92.4314W	15	From 2011-02-12 to 2012-11-28
Mamousia	MAMO	Greece	38.1520N	22.1443E	650	From 2001-12-10
Mamuju	MMSI	Sulawesi,Indonesia	2.6900S	118.9100E	221	From 2008-01-01
Manacapuru-AM	MACA	Brazil	3.1615S	60.6838W	75	From 2014-01-30
Manaccan	CMA1	England,United Kingdom	50.0821N	5.1274W	42	From 1993-01-01
Manadas	PMAN	Azores,Portugal	38.6327N	28.0890W	180	
Manado	MNI	Sulawesi,Indonesia	1.4439N	124.8399E	191	From 1972-01-01
Managua	MGAN	Nicaragua	12.1468N	86.2472W	80	
Manakhah	MNKH	Yemen	15.0652N	43.7500E	0	
Manam	AMAN	Egypt	23.9333N	32.9340E		
Manamana	MANV	Venezuela	9.7992N	70.7962W		
Manantiales	MAA	Mendoza,Argentina	32.0839S	69.8500W		
Manas	MNSR	Dagestan,Russia	42.7028N	47.7194E	-20	
Manas	MNAS	Kyrgyzstan	42.4870N	72.5040E	1515	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Manavgat-Antalya	MNVG	Turkey	36.7935N	31.4161E	24	From 2012-04-01
Manawahe	MARZ	North Island,New Zealand	37.9849S	176.6747E	480	From 1992-06-16
Mancha de Ca Pechiches	PECV	Ecuador	0.7773S	80.0488W	442	From 2008-06-06
Manchester	MNWA	Washington,U.S.A.	47.5650N	122.5341W	1554	From 2002-11-01
Manchester	MX-TN	Tennessee,U.S.A.	35.5503N	86.2700W	305	From 1962-11-14 to 1962-12-12
Manchester	MX-	Tennessee,U.S.A.	35.5503N	86.2700W	305	From 1962-11-14 to 1962-12-12
Mandailing Natal	MNSI	Sumatera,Indonesia	0.7955N	99.5796E	0	From 2007-12-01
Mandalay	MND	Myanmar	22.0157N	96.1148E	93	From 1966-10-01 to 1999-08-25
Mandiavato	MDSM	Madagascar	19.0852S	47.0306E	1511	
Mandileni	MDL	Cape Province,South Africa	30.7100S	28.8000E	1320	From 1988-01-01 to 1999-12-31
Mandvi	MAND	Gujarat,India	22.8428N	69.2861E	8	From 2012-01-01
Mangahao	MNG	North Island,New Zealand	40.6170S	175.4822E	396	From 1965-11-16 to 1994-10-19
Mangahewa	MHEZ	North Island,New Zealand	39.0761S	174.3231E	194	From 2008-03-04
Mangalia	MANR	Romania	43.8168N	28.5876E	71	From 2008-10-02
Mangalia Port-Far Verde	TSMN	Romania	43.8010N	28.5950E	70	From 2013-05-10
Mangalore	MNGI	Karnataka,India	12.9417N	74.8227E		
Mangatainoka River	MRZ	North Island,New Zealand	40.6605S	175.5786E	286	From 1992-04-08
Mangateitei	MTVZ	North Island,New Zealand	39.3846S	175.4704E	840	From 2005-03-15
Mangla	MNL	Pakistan	33.1472N	73.7500E	436	
Mangrove Creek Dam	MGCD	New South Wales,Australia	33.2096S	151.1092E	219	From 1997-11-05
Manhattan	AMNH	New York,U.S.A.	40.7808N	73.9738W		
Manhattan	MHK	Kansas,U.S.A.	39.1874N	96.5792W	318	From 1974-11-19 to 2001-07-15
Manhattan	MHT	Kansas,U.S.A.	39.1997N	96.5806W	339	
Manica	MANI	Mozambique	18.9482S	32.8843E	1300	
Manicaragua	MGV	Cuba	22.1100N	79.9800W		
Manicouagan	MNQ	Quebec,Canada	50.5333N	68.7744W	564	From 1974-11-27
Manihiki	MNHK	Cook Islands	10.4150S	161.0330W	1	
Manila	MAN	Luzon,Philippines	14.6600N	121.0780E	70	From 1949-01-01
Manila South	MSAR	Arkansas,U.S.A.	35.7842N	90.1469W	69	
Manipur University	MUM	Manipur,India	24.7498N	93.9242E	784	
Manisa	MANT	Turkey	38.4908N	28.5578E	2008	From 2002-12-12
Maniwaki	MIQ	Quebec,Canada	46.3667N	75.9667W	199	From 1974-02-27 to 1981-04-30
Manizales, Caldas	CMAN1	Colombia	5.0715N	75.5244W	2237	From 1996-09-02
Manley	MLY	Alaska,U.S.A.	65.0308N	150.7390W	804	From 1990-09-25
Manna	MNAI	Sumatera,Indonesia	4.3605S	102.9557E	154	From 2006-07-27
Mann Creek Ranch, Princeton	K08A	Oregon,U.S.A.	42.7308N	118.4864W	1391	From 2006-06-29 to 2008-04-08
Manning	D26A	North Dakota,U.S.A.	47.0301N	102.4357W	693	From 2009-07-23 to 2011-07-27
Manning	MANA	Alberta,Canada	56.8554N	117.6367W	480	From 2009-10-18
Manning Farm, Rocklake	A29A	North Dakota,U.S.A.	48.9228N	99.2321W	480	From 2009-08-20 to 2011-07-19
Manof	MNFI	Israel	32.8510N	35.2360E	350	
Manokwari, Papua	MWPI	Irian Jaya,Indonesia	0.9300S	134.0400E	70	From 2008-01-01
Mansa	MZZ	Zambia	11.1422S	28.8760E	1256	From 1984-01-01
Mansfield	T40A	Missouri,U.S.A.	37.1504N	92.5193W	399	From 2010-12-14 to 2012-10-31
Mansfield	O44A	Illinois,U.S.A.	40.1526N	88.4671W	213	From 2011-10-15
Manso	MSB	Mato Grosso,Brazil	14.8864S	55.8172W	360	
Manta	AMANT	Ecuador	0.9408S	80.7345W	38	From 2010-08-26
Manteigas	MTE	Portugal	40.3997N	7.5442W	815	From 1974-12-10
Manter	S28A	Kansas,U.S.A.	37.5899N	101.8979W	1064	From 2009-04-10 to 2011-03-15
Manton Dam	MTN	Northern Territory,Australia	12.8436S	131.1327E	137	From 1972-06-01
Mantova	MNTV	Italy	45.1495N	10.7897E	36	From 2009-07-29
Manual Prospect Mine,Trona	MPMC	California,U.S.A.	36.0580N	117.4890W	1839	From 1998-06-25
Manuel Ranch, Winnett	D20A	Montana,U.S.A.	47.0911N	108.1362W	902	From 2008-08-15 to 2010-06-05
Manus Island	MANU	Papua New Guinea	2.0432S	147.3662E	141	From 2009-04-01
Manyara 2	MAN2	Tanzania,United Republic of Tanzania	3.3960S	35.8117E	1222	
Manyatta Coffee Estate	COFF	Tanzania,United Republic of Tanzania	3.3948S	36.8745E	1122	
Manyoni	MANYT	Tanzania,United Republic of Tanzania	5.7438S	34.8383E	1258	
Manysh	MNYS	Turkmenistan	37.7720N	58.6080E	680	
Manzanillo	MNZ	Colima,Mexico	19.0542N	104.3306W	60	
Manzanita Entrance	LMEM	California,U.S.A.	40.5378N	121.5700W	1753	From 1988-11-04
Manzanita Lake	MLC	California,U.S.A.	40.5367N	121.5620W	1800	From 1956-06-01
Manzanita Lake	LMZM	California,U.S.A.	40.5443N	121.5640W	329	From 1976-11-12
Manzenberg	MANZ	Bayern,Germany	49.9862N	12.1083E	638	From 1996-07-31
Mao	MAO1	Dominican Republic	19.5513N	71.0811W	80	From 2011-06-16
Mapaga	MPSI	Sulawesi,Indonesia	0.3374N	119.8980E	0	From 2007-12-01
Mapinhane	MAPI	Mozambique	22.2486S	35.0917E	39	From 2010-05-25
Maple Bay	SHDB	British Columbia,Canada	48.7970N	123.6360W	55	From 2003-02-28
Maple Canyon	MPU	Utah,U.S.A.	40.0155N	111.6333W	1909	
Maple Creek	YMC	Wyoming,U.S.A.	44.7593N	111.0060W	2073	From 1974-10-01
Maple Falls	A05A	Washington,U.S.A.	48.9983N	122.0852W	174	From 2005-11-25 to 2009-01-08
Maple Grove Farm, Niagara	F42A	Wisconsin,U.S.A.	45.7587N	88.1347W	358	From 2011-09-09 to 2013-11-27
Mapleton	I02A	Oregon,U.S.A.	44.0035N	123.8299W	170	From 2005-11-17 to 2008-01-22
Maple valley SMO-IDS24	MPL	Washington,U.S.A.	47.4684N	122.1858W	122	From 1997-01-01
Maputo	LMM	Mozambique	25.9686S	32.5942E	55	
Maracay	MARA	Venezuela	10.3239N	67.6069W	1200	From 1984-01-01 to 1999-08-25
Marana (Italy)	MARN	Italy	45.6378N	11.2099E	550	From 2009-11-27
Marand	IMRD	Iran	38.7133N	45.7030E	1684	From 1995-08-01
Marapu	PGMAR	New Britain,Papua New Guinea	5.5830S	150.7675E	110	
Maratea	BMAT	Italy	39.9900N	15.7184E	69	From 2009-10-28
Marathon	062Z	Florida,U.S.A.	24.7266N	81.0523W	5	From 2012-05-15
Marathon	MTX	Texas,U.S.A.	30.3079N	103.2542W	1363	
Maraveh tapeh	MRVT	Iran	37.6593N	56.0893E	870	From 2006-03-18
Marayes	AMAR	San Juan,Argentina	31.4555S	67.3278W	615	
Marble Bar	MBWA	Western Australia,Australia	21.1590S	119.7312E	194	From 2001-08-25
Marble Bar	MBL	Western Australia,Australia	21.1600S	119.8330E	200	From 1976-06-23 to 2006-05-29
Marble Bar	MBT	Western Australia,Australia	21.1700S	119.7420E	200	From 1972-10-01 to 1976-06-23
Marble Canyon	MCA	California,U.S.A.	36.6466N	117.2805W	303	From 1979-01-23
Marblemount	B06A	Washington,U.S.A.	48.5183N	121.4845W	75	From 2006-09-17 to 2008-11-12
Marchena, Sevilla	E012	Spain	37.3710N	5.5248W	144	From 2007-10-30 to 2009-07-07
Marco	AMRC	Italy	45.8515N	11.0189E	201	From 2005-07-14
Marconi Conference Center, Marshall	MCCM	California,U.S.A.	38.1448N	122.8802W	-7	From 2006-02-03
Marcus Island	MCS	Marcus Island,Japan	24.2900N	153.9880E		From 1966-01-01 to 1970-12-31
Marden Senior College	AUMAR	South Australia,Australia	34.8900S	138.6400E	153	From 2013-08-11
Mardin	MARD	Turkey	37.3139N	40.7789E	1290	From 2005-06-24
Mardin/Midyat-Merkez	MIDY	Turkey	37.4063N	41.3983E	972	From 2014-12-01
Mared	SMRD	Iran	30.4979N	48.3069E	5	From 2010-08-11
Maredsous	BMRD	Belgium	50.3025N	4.7675E	215	From 1997-09-25
Mare, Loyalty Islands, New Caledonia	MARNC	Loyalty Islands,New Caledonia	21.4809S	168.0305E	44	From 2011-11-03
Mareno di Piave, Italy	MMAR	Italy	45.8419N	12.3602E	33	From 2010-06-07
Mareth	MART	Tunisia	33.5768N	10.2495E	140	
Marewa	MRH	North Island,New Zealand	39.4974S	176.8885E	4	From 1987-03-19 to 1989-08-03
Margaret Lake	MGTN	Northwest Territories,Canada	63.6856N	109.5911W	411	
Marguerite Bay	ANC	Antarctic Peninsula	68.1944S	67.0000W	7	
Maria Elena	MACH	Antofagasta,Chile	22.1955S	69.7577W	2003	From 2007-11-21
Marianna	452A	Florida,U.S.A.	30.8492N	85.1830W	35	From 2012-02-04
Mariazell	MZA	Austria	47.7703N	15.3283E	990	
Ma'rib	MARB	Yemen	15.4640N	45.3200E	1120	From 1994-11-01
Maricao	MRCP	Puerto Rico	18.1770N	67.0310W	330	
Maricopa	MARC	California,U.S.A.	35.0025N	119.3390W	436	
Maricunga	AC02	Atacama	26.8355S	69.1291W	3980	From 2014-02-04
Marie-Galante	MGG	Guadeloupe,France	15.9180N	61.3168W	51	
Marienthal	R29A	Kansas,U.S.A.	38.4243N	101.1383W	957	From 2009-04-17 to 2011-03-18
Mariestad	MRE	Sweden	58.6170N	13.7460E		From 1980-01-01 to 1991-12-31
Marietta	Y35A	Oklahoma,U.S.A.	33.9059N	97.0374W	214	From 2010-04-25 to 2012-01-31
Marietta College	MACO	Ohio,U.S.A.	39.4166N	81.4491W	193	
Marine on St. Croix	SPMN	Minnesota,U.S.A.	45.2246N	92.8037W	311	From 2008-08-28
Marin Headlands	MHDL	California,U.S.A.	37.8421N	122.4940W	0	
Marino	MA9	Italy	41.7702N	12.6593E	340	From 2000-05-11
Marion BPA Site DOGAMI SMO	MRIN	Oregon,U.S.A.	44.8002N	122.6995W	187	From 2002-03-19
Marion Center	N55A	Pennsylvania,U.S.A.	40.7808N	78.9862W	559	From 2012-12-13
Marion Island	MIO	Prince Edward Islands,South Africa	46.9583S	37.9000E	10	
Mariponipon	MRPI	Sumatera,Indonesia	1.6125N	99.3172E	1100	
Marisa	MRSI	Sulawesi,Indonesia	0.4771N	121.9406E	0	From 2007-12-01
Markates	MRKA	Greece	38.7058N	23.5875E	424	From 2008-10-16
Markates	VMA	Greece	38.7058N	23.5876E	468	From 1983-01-01
Marked Tree	MK-	Arkansas,U.S.A.	35.5589N	90.2653W	61	
Marked Tree	MK-AR	Arkansas,U.S.A.	35.5589N	90.2653W	61	
Market Rasen	LMK	England,United Kingdom	53.4569N	0.3266W	130	From 1991-01-01
Markovo, Chukotka	MKV	Kamchatskaya Oblast',Russia	64.6840N	170.4120E	25	From 1985-10-01 to 1992-04-01
Marks Point, NSW, Australia	MKPT	New South Wales,Australia	33.0556S	151.6432E	20	From 2005-09-01 to 2012-07-30

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Mark West Springs	MAC	California,U.S.A.	38.5505N	122.7230W	134	From 1970-08-14
Mark W Springs	NMWM	California,U.S.A.	38.5505N	122.7230W	134	From 1970-08-14
Marlboro	MARL	Vermont,U.S.A.	42.7990N	72.8378W	580	From 1977-08-08 to 1983-02-25
Marlette	J49A	Michigan,U.S.A.	43.3600N	83.1389W	253	From 2012-10-16
Marlinton	R55A	West Virginia,U.S.A.	38.2825N	80.1195W	833	From 2013-01-22
Marlo Lake	MLON	Northwest Territories,Canada	63.9696N	109.8953W	418	
Marmara Adasi	MRMT	Turkey	40.6032N	27.5957E	800	
Marmara Ereglisi-Tekirdag	BOTS	Turkey	40.9901N	27.9810E	31	From 2011-01-01
Marmara-Ereglisi-Tekirdag	SBT3	Turkey	40.8847N	27.9751E	-1204	From 2011-01-21
Marmara Sea	SB02	Turkey	40.9668N	28.4471E	-65	From 2013-12-29
Marmari	MRMA	Greece	38.0573N	24.3792E	300	From 2008-10-14
Marmaris-Mugla	MRSB	Turkey	36.7160N	28.1967E	402	From 2011-04-07
Marmelete	MORF	Portugal	37.3063N	8.6508W	650	
Marmol	MRL	Guatemala	15.0658N	89.6912W	1460	From 1979-10-01
Maron	MAJ	Jawa,Indonesia	7.5667S	110.4170E		
Marquesado	RTMQ	San Juan,Argentina	31.5057S	68.6667W	798	
MARQUESAS ISLAND INFRASONIC ARRAY REFERENCE POINT	REFRC	Marquesas archipelago	8.8678S	140.1591W	806	From 2005-03-29
Marquette Ranch, East Glacier	B14A	Montana,U.S.A.	48.3609N	113.2729W	1529	From 2007-09-14 to 2009-08-10
Marrel Ranch, Paradise Valley	M09A	Nevada,U.S.A.	41.4230N	117.4497W	1355	From 2006-04-26 to 2008-04-01
Marsad	MRSJ	Jordan	29.6850N	35.3219E	810	From 1990-03-15
Marsa Matruh	MMT	Egypt	31.3800N	27.2750E		From 1975-01-01 to 1980-12-31
Marseilles	MAR	Provence-Cote d'Azur,France	43.3053N	5.3939E	75	
Marsico Nuovo (PZ)	MRN3	Italy	40.4256N	15.7296E	772	
Marsico Vetere	MARE	Italy	40.3932N	15.8113E	1030	
Marsite Station 2 Hoskoy	MAR2	Turkey	40.7172N	27.3123E	14	From 2014-02-01
Marsite Station 4	MAR4	Turkey	40.7880N	27.3007E	905	From 2014-02-01
Marsite Station Cinarli Koyu	MAR8	Turkey	40.6121N	27.5348E	28	From 2014-02-01
Marsite Station Guzelkoy	MAR3	Turkey	40.7432N	27.2945E	243	From 2014-02-01
Marsite Station Kirazli	MAR6	Turkey	40.7041N	27.2653E	334	From 2014-02-01
Marsite Station Marmara Adasi	MAR9	Turkey	40.6196N	27.7020E	99	From 2014-02-01
Marsite Station Mursalli	MAR7	Turkey	40.7281N	27.2353E	342	From 2014-02-01
Marsite Station Ucmakdere	MAR5	Turkey	40.7954N	27.3660E	104	From 2014-02-01
Marston	MARMO	Missouri,U.S.A.	36.5300N	89.6690W	82	
Martakert	MTKZ	Armenia	40.2000N	46.8200E	480	From 1998-01-01
Martiadasi	MRTI	Turkey	40.8196N	29.1127E	26	From 2009-05-25
Martigny, Rue dOctodure	SMAO	Switzerland	46.0988N	7.0748E	475	From 2012-03-01
Martimbang	MARI	Sumatera,Indonesia	1.9603N	98.9681E	1680	
Martinez Indian Reservation	MIRC	California,U.S.A.	33.4162N	116.0810W	91	
MARTIN GARCIA	MGBA	Buenos Aires,Argentina	34.1875S	58.2563W	27	From 1994-04-08
Martinsdale	E17A	Montana,U.S.A.	46.4620N	110.8576W	1835	From 2007-09-13 to 2009-09-07
Martinsville	P47A	Indiana,U.S.A.	39.4869N	86.2692W	246	From 2011-10-19
Martis Peak	MPK	California,U.S.A.	39.2957N	120.0300W	2484	From 1973-04-01
Martos, Jaen	E024	Spain	37.7225N	3.9241W	1239	From 2007-07-02 to 2009-06-24
Martuni	MTNZ	Armenia	39.7970N	47.1140E	400	From 1998-01-01
Martvili	MARV	Georgia,Georgia	42.4100N	42.3800E	190	
Marumori	JMM	Miyagi,Japan	37.8660N	140.7930E	100	
Maruseppu	JMP	Abashiri,Japan	44.0070N	143.3597E	460	
Marvell	X43A	Arkansas,U.S.A.	34.5180N	90.8812W	53	From 2011-05-18
Marv??o	PMRV	Portugal	39.4283N	7.3917W	430	From 2007-07-01
Mary	MRY	Turkmenistan	37.6000N	61.8667E		
Mary Lake	YML	Wyoming,U.S.A.	44.6053N	110.6432W	2653	
Mary Lake	YPML	Wyoming,U.S.A.	44.6028N	110.6063W	2519	
Maryland--Naval Ordinance Lab	NLM	Maryland,U.S.A.	39.0324N	76.9805W	114	From 1962-01-01 to 1972-12-31
Mary Lane Ranch, Marfa	526A	Texas,U.S.A.	30.0609N	104.0898W	1405	From 2008-03-05 to 2010-02-09
Marymoor Park	MARYW	Washington,U.S.A.	47.6625N	122.1211W	11	
Mary River	MRYN	Northwest Territories,Canada	71.3328N	79.3795W	0	From 2011-08-01
Mary's Peak	MPOR	Oregon,U.S.A.	44.5048N	123.5500W	1249	From 1990-08-01
Marysvale	MVU	Utah,U.S.A.	38.5037N	112.2123W	2239	
Marysvale	MSU	Utah,U.S.A.	38.5123N	112.1772W	2105	From 1975-11-01
Marysville	MV-CL	California,U.S.A.	39.2131N	121.2931W	183	From 1961-10-22 to 1966-03-12
Marysville	MV-	California,U.S.A.	39.2131N	121.2931W	183	From 1961-10-22 to 1966-03-12
Maryville	MVLT	Tennessee,U.S.A.	35.7340N	83.9420W		From 1984-01-29
Maryville College	MVMO	Missouri,U.S.A.	38.6465N	90.5009W	183	
Masachapa	MCH	Nicaragua	11.8747N	86.5287W	147	From 1975-01-01
Masada	MZBI	Israel	31.3126N	35.3580E	-316	From 2010-06-27
Masada	MZDA	Israel	31.3096N	35.3628E	-275	From 1991-05-01
Masada	MSDA	Israel	31.3200N	35.2900E	400	
Masamba	MSSI	Sulawesi,Indonesia	2.5547S	120.3241E	111	From 2005-01-01
Masan	KSMAS	Republic of Korea	35.1706N	128.5725E	78	From 2000-12-05
Masaya	MASN	Nicaragua	11.9873N	86.1513W	500	
Masbate	MMPH	Luzon,Philippines	12.3580N	123.6240E	11	
Masc	MASC	Cuba	20.1750N	74.2310W		
Mascalucia	SMET	Italy	37.5784N	15.0547E	599	From 2008-02-06
Mas de Barberans	CMAS	Spain	40.7267N	0.3150E	530	From 2006-04-01
Mash'abbe Sade	MASH	Israel	30.9960N	34.7850E	365	
Mashad	ISRO	Iran	36.3088N	59.4703E	1050	From 2007-03-01
Mashad	MHI	Iran	36.3088N	59.4703E	1150	From 1975-09-15
Mashhad	MSH	Iran	36.3111N	59.5878E	987	From 1965-09-17 to 1975-09-06
Mashhad (SRO)	MAIO	Iran	36.3083N	59.4717E	1150	From 1975-10-01
Mashhad University	MUI	Iran	36.3117N	59.6050E	1000	From 1972-01-01
Mashibuluo	MASBT	Taiwan region	22.6119N	120.6328E	139	From 2007-11-02
Masjed Soleyman	MSHA	Iran	31.9000N	49.3000E		
Maskali	MKL	Djibouti	11.7123N	43.1498E	5	
Masohi	MSAI	Moluccas,Indonesia	3.3461S	128.9285E	82	From 2005-01-01
Mason Butte	MAS	Idaho,U.S.A.	46.6327N	116.3580W	1141	From 1971-10-01 to 1976-01-14
Masonville	G60A	Quebec,Canada	45.0977N	72.3337W	391	From 2013-08-10
Massa Finalese, Finale Emilia (MO)	T0800	Italy	44.8486N	11.2479E	8	From 2012-05-21 to 2012-09-11
Massa Finalese, Finale Emilia (MO)	T0813	Italy	44.8778N	11.1992E	0	From 2012-05-20 to 2013-04-05
Massafra	MASS	Italy	40.6333N	17.1445E	274	
Massena	MSNY	New York,U.S.A.	44.9983N	74.8620W	55	From 1977-02-01
Masseria Cannata	ECAN	Sicily,Italy	37.8880N	14.9100E	1140	From 1994-10-01
Masset	MSTB	British Columbia,Canada	54.0033N	132.1180W	91	From 1987-12-04
Masset	MASB	British Columbia,Canada	54.0150N	132.0230W	15	
Mastiano	MAIM	Italy	43.9142N	10.4915E	210	From 2000-09-01
Masuda	JMD	Shimane,Japan	34.6317N	131.8933E	260	
Masugnsbyn	MASU	Sweden	67.4569N	21.9983E	500	From 2003-11-19
Masuku	MSKU	Gabon	1.6557S	13.6116E	287	
Maswa Reserve	MKAO	Tanzania,United Republic of Tanzania	3.4083S	34.7412E	1533	
Matagalpa	MATN	Nicaragua	12.9298N	85.9255W	869	From 2011-04-01
Matagami	MATQ	Quebec,Canada	49.7589N	77.6376W	280	From 2007-09-19
Matakaoa Point	MXZ	North Island,New Zealand	37.5623S	178.3066E	106	From 2004-02-19
Matam	MMS	Senegal	15.6167N	13.3333W	50	
Mataram	KLNI	Lombok,Indonesia	8.4219S	116.0949E	99	
Mataram	MTNI	Lombok,Indonesia	8.6360S	116.1707E	108	From 2005-01-01
Matarih	MATL	Lebanon	33.4887N	35.3297E	5	From 2000-11-01
Matatall Enterprise, Big Sandy	138A	Texas,U.S.A.	32.6604N	95.0887W	143	From 2010-02-22 to 2012-01-29
Matau	MTUR	Romania	45.2261N	25.0630E	1018	From 1988-08-01
Matawai	MWZ	North Island,New Zealand	38.3340S	177.5278E	573	From 2004-02-18
Matea Rd	MRHZ	North Island,New Zealand	38.8337S	176.4174E	715	From 2010-05-14
Mateiros - TO	RET12	Tocantins,Brazil	10.5162S	46.4495W	518	From 2011-08-07
Matelica	MTL1	Italy	43.2567N	13.0096E	353	From 2011-04-05
Matera	MATE	Italy	40.6493N	16.7047E	0	From 2007-04-24
Mathat	MATF	Poitou-Charentes,France	45.8308N	0.2883W	30	
Mathiatis	CSS	Cyprus	34.9622N	33.3306E	396	From 1984-07-26
Mati	MATI	Luzon,Philippines	6.9460N	126.2570E	120	
Matias Romero	CMIG	Oaxaca,Mexico	17.0910N	94.8840W	200	
Matka	MYG	FYR Macedonia	41.9567N	21.3008E	306	From 1969-01-01
Matopo	MATP	Zimbabwe	20.4258S	28.4994E	1215	
Matouba	MBG	Guadeloupe,France	16.0481N	61.6839W	830	
Matruh	MATC	Egypt	31.3457N	27.2305E	30	
Matruh	HMAT	Egypt	31.0940N	27.0964E	245	
Matruh	MAT1	Egypt	31.3450N	27.2340E	55	
Matshushiro Site	MJ00	Nagano,Japan	36.5427N	138.2070E	406	
Matsu	MTST	Taiwan region	26.0900N	119.5600E	113	
Ma-tsu	MATB	Taiwan region	26.1515N	119.9456E	75	
Matsu Arr-Jizo	MJA0	Nagano,Japan	36.5427N	138.2472E	629	
Matsu-Daira	MJB3	Nagano,Japan	36.4847N	138.2944E	848	
Matsue	MTS	Shimane,Japan	35.4550N	133.0720E	18	
Matsu-Inaba	MJB8	Nagano,Japan	36.5214N	138.2099E	729	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Matsu-Irikaruiz	MJB6	Nagano,Japan	36.4712N	138.2507E	762	
Matsu-Jizotouge	MJA4	Nagano,Japan	36.5115N	138.2422E	997	
Matsula	MTSE	Estonia	58.7144N	23.8146E	3	From 2006-08-07
Matsumoto	MTMJ	Nagano,Japan	36.5850N	137.8050E	929	From 1978-01-01
Matsumoto	MTM	Nagano,Japan	36.2433N	137.9730E	610	
Matsumotoyama	MATH	Iburi,Japan	42.5489N	140.8683E	120	
Matsu-Nakagumi	MJB4	Nagano,Japan	36.4677N	138.2816E	736	
Matsu-Nakaone	MJA2	Nagano,Japan	36.5241N	138.2656E	1126	
Matsushiro	MAJO	Nagano,Japan	36.5427N	138.2070E	405	From 1977-06-30
Matsushiro	MAT	Nagano,Japan	36.5427N	138.2070E	406	From 1947-05-01
Matsushiro Array Beam Reference Point	MJAR	Nagano,Japan	36.5417N	138.2090E	422	
Matsushiro Array Site 0	MAT0	Nagano,Japan	36.5417N	138.2067E	407	
Matsushiro Array Site 1	MJ01	Nagano,Japan	36.5599N	138.2419E	598	
Matsushiro Array Site 2	MJ02	Nagano,Japan	36.5393N	138.3193E	1230	
Matsushiro Array Site 4	MJ04	Nagano,Japan	36.4681N	138.2538E	760	
Matsushiro Array Site 4	MJ03	Nagano,Japan	36.4816N	138.2976E	837	
Matsushiro Array Site 5	MJ05	Nagano,Japan	36.4867N	138.2139E	960	
Matsushiro Array Site 6	MJ06	Nagano,Japan	36.5216N	138.2503E	616	
Matsu-Soehiyama	MJA3	Nagano,Japan	36.4956N	138.2467E	886	
Matsu-Sugadaira	MJB2	Nagano,Japan	36.5423N	138.3160E	1255	
Matsu-Takimoto	MJB1	Nagano,Japan	36.5630N	138.2387E	611	
Matsu-Toyosaka	MJA1	Nagano,Japan	36.5338N	138.2523E	630	
Matsu-Tunnel	MJB9	Nagano,Japan	36.5458N	138.2039E	454	
Matsu-Wadaira	MJB7	Nagano,Japan	36.4898N	138.2108E	997	
Matsuyama	MTY	Ehime,Japan	33.8400N	132.7800E	34	
Matsu-Yatsubo	MJB5	Nagano,Japan	36.4824N	138.2575E	803	
Mattawa	MW-	Ontario,Canada	46.2753N	78.5717W	244	From 1962-10-11 to 1962-10-27
Mattawa	MW-ON	Ontario,Canada	46.2753N	78.5717W	244	From 1962-10-11 to 1962-10-27
Mattawa	E52A	Ontario,Canada	46.2851N	78.6569W	252	From 2012-11-07
Matthews	MATM	Missouri,U.S.A.	36.7743N	89.6046W	86	
Mattituck	N63A	New York,U.S.A.	40.9878N	72.5206W	8	From 2013-09-10
Mattmark	MMK	Switzerland	46.0505N	7.9640E	2210	From 1981-01-07
Matua	MAU	Sakhalinskaya Oblast',Russia	48.0600N	153.2500E	20	
Matupit	MIP	New Britain,Papua New Guinea	4.2433S	152.1900E	2	
Matupit Island	MPT	New Britain,Papua New Guinea	4.2437S	152.1900E	2	
Matura	TTR	Trinidad and Tobago	10.6740N	61.0660W	46	From 1984-07-01
Mauborget	MAUBO	Switzerland	46.8606N	6.6193E	1281	From 2011-11-21
Maui	MAUI	Hawaii,U.S.A.	20.7684N	156.2448W	2060	
Maumere	MMRI	Flores,Indonesia	8.6357S	122.2376E	137	From 2006-11-01
Mauna Kea	MKH	Hawaii,U.S.A.	19.8267N	155.4720W		From 1975-01-01 to 1999-08-25
Mauna Loa	MLH	Hawaii,U.S.A.	19.4940N	155.3860W	2010	From 1958-07-01
Mauna Loa 2	MLX	Hawaii,U.S.A.	19.4600N	155.3450W	1475	From 1966-09-21
Mauna Loa Observatory	MLOA	Hawaii,U.S.A.	19.5360N	155.5760W	3399	
Maungaku	MGZ	North Island,New Zealand	39.0002S	175.5390E	806	From 1984-04-03 to 2005-05-13
Maungataniwha	MTHZ	North Island,New Zealand	38.8523S	176.8411E	620	From 2011-10-20
Maupin	VMNM	Oregon,U.S.A.	45.1868N	121.0530W	555	
Maura Aman, Bengkulu	MASI	Sumatera,Indonesia	3.1415S	102.2396E	384	From 2008-12-01
Maura Dua	MDSI	Sumatera,Indonesia	4.4861S	104.1783E	0	From 2007-12-01
Mauren, Feuerwehr, FL	SMAF	Switzerland	47.2100N	9.5463E	440	From 2014-10-15
Maurine	G26A	South Dakota,U.S.A.	45.2937N	102.5990W	833	From 2009-07-09 to 2011-05-26
Mauritius Island	MRI	Mauritius	20.1000S	57.5300E		
Mauritius Meteorological Services (Vacoas)	MRIV	Mauritius	20.2980S	57.4970E	424	From 2007-01-15
Mausoleum Waldhaus Greiz	GRZ1	Thuringen,Germany	50.6924N	12.2196E	203	From 2012-01-16
Mavora Lakes	MLZ	South Island,New Zealand	45.3665S	168.1184E	594	From 1996-03-09
Mavrovouni	MVOU	Cyprus	35.0160N	33.6320E	113	From 2013-07-01
Mawana Gate	MWG1	Botswana	19.6300S	23.8200E	962	From 2001-01-01 to 2100-12-31
Mawashi	MWS	Ryukyu Islands,Japan	26.2333N	127.6830E	25	
Mawson	MAW	Mac Robertson Land	67.6039S	62.8706E	12	From 1956-01-01
Maxey Ranch	PMRM	California,U.S.A.	35.7848N	120.2360W	512	
Maxfield	G64A	Maine,U.S.A.	45.2527N	68.7558W	165	From 2013-09-22
Maximikha	MXMB	Buryatiya,Russia	53.2630N	108.7450E	510	From 1997-10-01
Mayabunder	MYB	Andaman Islands,India	12.5246N	92.5539E	44	From 2012-01-01
Mayacamas Mountains	GMMM	California,U.S.A.	38.8382N	122.7988W	963	
Mayadein	HMYD	Egypt	29.7958N	30.8009E	275	
Mayaguez	MPR	Puerto Rico	18.2117N	67.1398W	22	From 1973-01-01
Mayak Korsakovskie (Korsakov)	KRS4	Sakhalinskaya Oblast',Russia	46.6097N	142.8011E	100	From 2003-01-01
Mayak na Mysu Ozernom	MAYS	Kamchatskaya Oblast',Russia	57.7200N	163.3100E	10	From 1969-12-01 to 1970-01-01
Maychil	PT20	Peru	6.5190S	79.1860W	1180	
Mayfield	MAY	Washington,U.S.A.	46.0833N	122.0830W		
May Junction 2	MJ2	Washington,U.S.A.	46.5575N	119.3590W	146	From 1989-03-13
Maynard	MAYB	British Columbia,Canada	50.4025N	127.1720W	1414	From 1994-09-02
Mayon Resthouse	VMR	Luzon,Philippines	13.2800N	123.6710E	800	
Mayorazgo	MAYR	Peru	12.0550S	76.9440W	320	
Mayor Island	MYRZ	North Island,New Zealand	37.2802S	176.2410E	356	From 2004-05-24
Maysville	MVKY	Ohio,U.S.A.	38.6460N	83.7614W	213	
Mazaricos	EMAZ	Spain	42.9490N	8.9765W	405	
Mazatlaan	MAIG	Sinaloa,Mexico	23.1883N	106.4244W	10	
Mazatlan	MZX	Sinaloa,Mexico	23.2008N	106.4253W	10	
Mazatlan	MAZ	Sinaloa,Mexico	23.1881N	106.4061W	65	
Maze	MZE	Gifu,Japan	35.8911N	137.1553E	590	
Mazenod Senior College, Perth	AUMAZ	West Australia,Australia	32.0100S	116.0400E	263	From 2013-09-09
Mazidag	MAZI	Turkey	37.4593N	40.4467E	1212	From 2009-06-29
Mazie Landing	MZO	Oklahoma,U.S.A.	36.1316N	95.3001W	182	From 1976-09-16 to 1978-06-16
Mazirat	MAF	Auvergne,France	46.2215N	2.5664E	470	From 1985-07-10
Mazirat	MZF	Auvergne,France	46.2156N	2.5839E	480	From 1971-01-01 to 1985-07-10
Mazon	MSON	Ecuador	1.4845S	78.4678W	3380	From 1992-12-10
Mazracia	MAZR	Egypt	27.9292N	33.9948E		
Mazsada	MDBI	Israel	31.3126N	35.3580E	550	From 2012-11-01
Mbarara	MBAR	Uganda	0.6019S	30.7382E	1390	
Mbeya	MBAT	Tanzania,United Republic of Tanzania	8.8740S	33.4528E	1780	From 1992-06-12
M'Bour	MBO	Senegal	14.3908N	16.9547W	3	
MBSI	MBSI	Sumatera,Indonesia	3.7611S	102.2710E	27	From 2006-12-01
Mbulu	MBUL	Tanzania,United Republic of Tanzania	3.8780S	35.5140E	1933	
McAdam 2	MCA2	New Brunswick,Canada	45.5921N	67.3127W	498	From 2012-03-17
McAdam 3	MCA3	New Brunswick,Canada	45.5870N	67.3367W	552	From 2012-03-17
McAdam 4	MCA4	New Brunswick,Canada	45.5980N	67.3260W	140	From 2012-04-26
McAlpin	555A	Florida,U.S.A.	30.1212N	82.9666W	29	From 2012-02-14
McAlpine Lake	MALO	Ontario,Canada	50.0244N	79.7635W	271	
McCarthy VSAT	MCARA	Alaska,U.S.A.	61.3841N	143.0219W	447	
Mcclaflin, Tower City	D31A	North Dakota,U.S.A.	47.0481N	97.7226W	359	From 2010-08-11 to 2012-06-21
McClaskey Farms, Geuda Springs	T34A	Kansas,U.S.A.	37.0222N	97.1883W	361	From 2010-05-05 to 2012-03-06
McCloud	M03C	California,U.S.A.	41.2742N	122.1220W	1047	From 2005-07-12 to 2007-11-13
McCloud Flat S	MFSM	California,U.S.A.	36.1172N	117.8550W	1524	From 1975-09-25
McCloud Flat South	MFS	California,U.S.A.	36.1172N	117.8550W	1524	From 1975-09-25
McClure	MCIL	Illinois,U.S.A.	37.2965N	89.4984W	115	
McComb	MB-	Mississippi,U.S.A.	31.3428N	90.2864W	122	From 1966-11-15 to 1966-12-06
McComb	MB-MS	Mississippi,U.S.A.	31.3428N	90.2864W	122	From 1966-11-15 to 1966-12-06
McCrory	MY-	Arkansas,U.S.A.	35.3511N	91.0797W	61	From 1962-07-16 to 1962-08-03
McCrory	MY-AR	Arkansas,U.S.A.	35.3511N	91.0797W	61	From 1962-07-16 to 1962-08-03
McDonald Obs.	MOT2	Texas,U.S.A.	30.8990N	105.0800W	2088	
McDonald Obs.	MOT4	Texas,U.S.A.	30.2730N	104.5700W	1469	
McDonald Obs.	MOT3	Texas,U.S.A.	30.5419N	104.6580W	1481	
McDonald Obs.	MOT1	Texas,U.S.A.	30.9290N	104.3910W	1715	
McDonald Observatory	MOT	Texas,U.S.A.	30.6797N	104.0080W	2020	From 1975-08-01
McDonald Observatory, Fort Davis	426A	Texas,U.S.A.	30.6689N	104.0293W	1943	From 2008-03-12 to 2010-02-09
McDonald Ranch, Hollis	X31A	Oklahoma,U.S.A.	34.6309N	99.9793W	514	From 2009-03-19 to 2011-02-14
McDuffie Farm, Elizabethtown	X59A	North Carolina,U.S.A.	34.5720N	78.6023W	29	From 2013-02-10
McGee Canyon	MGNR	California,U.S.A.	37.8131N	118.6963W	2464	
McGee Creek	MGCB	British Columbia,Canada	48.6317N	123.6808W	236	
McGill	P12A	Nevada,U.S.A.	39.4731N	114.9075W	1878	From 2006-05-30 to 2008-09-02
McGinn's Farm, Dalton	N52A	Ohio,U.S.A.	40.8125N	81.6876W	331	From 2013-01-15
McGregor	E36A	Minnesota,U.S.A.	46.5177N	93.2557W	393	From 2010-10-17 to 2012-07-29
McKendrick Lake	KLN	New Brunswick,Canada	46.8433N	66.3717W	411	
McKenzie Canyon	MCMT	Montana,U.S.A.	44.8277N	112.8490W	2323	From 1989-09-14
McKinley	MCK	Alaska,U.S.A.	63.7323N	148.9349W	618	From 1964-12-01
McKinley Avenue, Clintonville	WI01	Wisconsin,U.S.A.	44.6325N	88.7495W	255	
McKinney Farm, Littlefield	Y28A	Texas,U.S.A.	33.9086N	102.2479W	1068	From 2009-01-26 to 2010-11-16
McLaughlin	F28A	South Dakota,U.S.A.	45.8485N	100.8005W	633	From 2009-08-21 to 2011-05-06
McLaughlin Mine	HOME	California,U.S.A.	38.8800N	122.4600W	0	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
McLaughlin Mine	MNRC	California,U.S.A.	38.8787N	122.4428W	709	From 2003-06-19
McLaughlin Ranch	GMCM	California,U.S.A.	38.7927N	123.1300W	439	From 1975-05-07
McManaman Lake, Nunavut	MCMN	Nunavut,Canada	63.3043N	92.2977W	46	From 2010-08-04
McMillan Canyon	PMCM	California,U.S.A.	35.7247N	120.3710W	488	
McMinnville	MM-TN	Tennessee,U.S.A.	35.5644N	85.5889W	381	From 1961-12-17 to 1963-04-01
McMinnville	V49A	Tennessee,U.S.A.	35.7663N	85.9030W	329	From 2012-05-06
McMinnville	MM-	Tennessee,U.S.A.	35.5644N	85.5889W	381	From 1961-12-17 to 1963-04-01
McMinnville, OR	G03D	Oregon,U.S.A.	45.2115N	123.2641W	222	From 2009-10-24
McMurdo Sound	MCM	Victoria Land	77.8333S	166.6000E	25	
McNeil Island	MEW	Washington,U.S.A.	47.2019N	122.6460W	98	From 1985-03-01
McNeill Hill	MCHZ	North Island,New Zealand	39.4442S	176.6967E	291	From 2008-05-27
McNeil River	MCNL	Alaska,U.S.A.	59.1852N	154.3370W	442	From 1981-08-22
McNeil River	MCL	Alaska,U.S.A.	59.1027N	154.2000W	273	From 1975-01-01 to 1981-08-16
McPhails Peak	BMCM	California,U.S.A.	36.6567N	121.3650W	1022	From 1975-01-26
Mcpherson Peak, Los Olivos	PKM	California,U.S.A.	34.8885N	119.8136W	1739	From 1976-08-01
McQueen's Valley	MQZ	South Island,New Zealand	43.7061S	172.6538E	57	From 1989-10-13
McRoberts Ranch, Bridgeport	M26A	Nebraska,U.S.A.	41.4661N	103.1427W	1348	From 2008-12-06 to 2010-10-08
Me@15rida	MYIG	California,U.S.A.	20.9581N	89.7396W	13	
Meade Ranch, Gillette	I23A	Wyoming,U.S.A.	43.9605N	105.4629W	1462	From 2008-10-16 to 2010-09-10
Meadow Creek Golf Course	MGU	Utah,U.S.A.	40.6815N	111.9180W	1291	From 1993-06-24
Meangora	MEG	New South Wales,Australia	35.1006S	150.0370E	712	From 1978-05-17 to 2007-08-29
Meany Midle School ANSS-SMO	MEAN	Washington,U.S.A.	47.6225N	122.3064W	37	From 2002-02-19
Mecca Hills	MECC	California,U.S.A.	33.6353N	116.0280W	495	
Mechanicsville	S59A	Virginia,U.S.A.	37.7620N	77.2942W	40	From 2013-04-12
Mechernich	MEC	Nordrhein-Westfalen,Germany	50.6000N	6.6667E		
Meda	MEDT	Tunisia	34.1082N	9.9203E	90	
Medan	MED	Sumatera,Indonesia	3.5500N	98.6833E	32	
Medea	AMDA	Algeria	36.2600N	2.7100E	1059	
Medea	MEB	Algeria	36.3030N	2.7300E	500	
Medellin	MEDC	Colombia	6.2028N	75.5808W	1518	
Medeo	MDOK	Kazakhstan	43.1631N	77.0481E	1590	From 1995-01-01
Medford	MF-WS	Wisconsin,U.S.A.	45.3475N	90.5897W	412	From 1962-12-22 to 1963-04-01
Medford	MF-	Wisconsin,U.S.A.	45.3475N	90.5897W	412	From 1962-12-22 to 1963-04-01
Medias	MDB	Romania	46.1417N	24.3806E	375	From 1979-01-01
Medicine Creek Dam	MKN	Nebraska,U.S.A.	40.3739N	100.2250W	732	From 1979-03-01 to 2001-07-15
Medicine Hat	MEDA	Alberta,Canada	49.9815N	110.7424W	721	From 2009-10-14
Medicine Lake	LMDM	California,U.S.A.	41.5730N	121.6230W	2140	
Medina	MEDY	New York,U.S.A.	43.1818N	78.3903W	186	From 1978-12-01 to 2002-12-20
Medina	MEDO	New York,U.S.A.	43.1646N	78.4546W	190	From 2004-05-07
Medio Mundo	MMO	Nicaragua	11.8942N	86.0150W	480	From 1975-01-01
Mednyi	MEDS	Kamchatskaya Oblast',Russia	54.7860N	167.5560E	150	From 1973-01-01 to 1975-12-31
Medolla (MO)	MIR01	Italy	44.8440N	11.0711E	20	From 2012-05-24
Meekatharra	MEKA	Western Australia,Australia	26.6142S	118.5360E	390	From 1986-05-01 to 1991-06-16
Meekatharra	MEEK	Western Australia,Australia	26.6376S	118.6135E	529	From 1992-06-03
Meekatharra	MEK	Western Australia,Australia	26.6128S	118.5450E	515	
Meers	MEO	Oklahoma,U.S.A.	34.7835N	98.5846W	465	From 1985-09-01
Meers Fault	MFO	Oklahoma,U.S.A.	34.8212N	98.5296W	451	From 1984-04-20 to 1985-05-31
Meerut	MEE	Uttar Pradesh,India	28.9167N	77.6667E	220	
Meeteetse	I19A	Wyoming,U.S.A.	44.0363N	108.9943W	1982	From 2008-08-12 to 2010-09-14
Megalopolis	MGP1	Greece	37.4019N	22.1386E	431	From 2011-10-01
Meganis„	MGNA	Greece	38.6561N	20.7912E	58	From 2010-12-01
Megha	MEGN	Nepal	28.7100N	82.3400E	2740	
Megler CREST BB SMO	MEGW	Washington,U.S.A.	46.2661N	123.8771W	351	From 2001-11-16
Megri	MGRZ	Armenia	38.9000N	46.2400E	0	
Mehetia	MEH	Society Islands,French Polynesia	17.8753S	148.0661W	300	
Mehriz	IMEH	Iran	31.3902N	54.6130E	2130	From 1998-10-01
Mei-Ami	MAMI	Israel	32.5000N	35.1500E	460	
Meikle Cairn	MME1	Scotland,United Kingdom	57.3149N	2.9647W	475	From 1981-01-01
Meishan	TWO1	Taiwan region	23.5705N	120.5946E	231	From 1976-08-20
Meishan	TWO	Taiwan region	23.5761N	120.5490E	180	From 1972-09-10
Meitler Ranch, Lucas	Q32A	Kansas,U.S.A.	38.9908N	98.5596W	526	From 2009-10-20 to 2011-08-24
Mejillones	MEJI	Antofagasta,Chile	23.0997S	70.4953W	500	
Mejillones	MECH	Antofagasta,Chile	23.1038S	70.4483W	18	From 2007-11-16
Melanico ??? S. Croce di Magliano	MELA	Italy	41.7059N	15.1270E	115	From 2008-04-23
Melbourne	MEL	Victoria,Australia	37.8314S	144.9733E	28	From 1902-01-01
Meldola (FC)	AD01	Italy	44.0583N	12.0975E	284	From 2010-03-31
Melhnausar	IMEL	Iceland	65.5700N	16.6573W	370	From 2009-09-30
Melilla	EMEL	Spain	35.3000N	2.9567W	85	From 1988-02-01 to 1999-01-31
Melilla	EMLI	Morocco	35.3000N	2.9500W	0	From 2002-06-21
Melilla	MELI	Spain	35.2938N	2.9350W	5	
Melilli	MEI	Sicily,Italy	37.1806N	15.1300E		
Mellen	E39A	Wisconsin,U.S.A.	46.3777N	90.5557W	426	From 2011-09-07 to 2013-06-08
Melles	MELF	Midi-Pyrenees,France	42.8727N	0.7592E	940	From 1997-10-08
Melrose High School	AUMHS	Australian Capital Territory,Australia	35.3600S	149.0900E	615	From 2011-05-04
Mels	MELS	Switzerland	47.0484N	9.3826E	1060	
Mely	MLYF	Provence-Cote d'Azur,France	43.9880N	5.7670E	765	From 2010-07-13
Membach	MEM	Belgium	50.6092N	6.0066E	250	
Memphis	MPH	Tennessee,U.S.A.	35.1230N	89.9320W	94	From 1978-09-21 to 1983-01-10
Memphis--Engineering Building	MET	Tennessee,U.S.A.	35.1220N	89.9340W	93	From 1973-11-13
Menan Buttes	MBI	Idaho,U.S.A.	43.7864N	111.9710W	1707	From 1973-09-01 to 1974-07-31
Menard	432A	Texas,U.S.A.	30.8755N	99.7937W	647	From 2009-02-17 to 2011-01-24
Menbuxiang, Xizang Zizhiqu	MNBU	Xizang Zizhiqu,China	28.7558N	86.1610E	4500	From 2002-07-18 to 2002-11-05
Mencas	MENF	Picardie,France	50.5582N	2.1550E	100	
Mendeleevo	MNDR	Sakhalinskaya Oblast',Russia	43.9716N	145.6934E	220	From 2011-09-20
Mendi	MNDI	Papua New Guinea	6.1550S	143.6580E	1800	From 1985-08-28
Mendips	SMD	England,United Kingdom	51.3083N	2.7170W	310	
Mendoza	MEN	Mendoza,Argentina	32.9050S	68.8642W	287	
Mendoza	MDZ	Mendoza,Argentina	32.8833S	68.8500W	826	From 1968-03-07
Mendum Tagoi	MENI	Irian Jaya,Indonesia	2.5103S	140.4170E	300	
Menerdue Farm	CME	England,United Kingdom	50.1760N	5.1903W	178	From 1982-01-01 to 1994-05-31
Mengen	MGN	Turkey	40.9248N	32.1812E	720	From 1970-08-01 to 1982-07-10
Menlo Park	LT7	California,U.S.A.	37.4502N	122.1830W	21	From 1967-09-22 to 1976-09-11
Menlo Park	MOB	California,U.S.A.	37.4502N	122.1830W	21	From 1967-09-22 to 1976-09-11
Menlo Park	JMPM	California,U.S.A.	37.4556N	122.1660W	17	
Mentasta	MENT	Alaska,U.S.A.	62.9381N	143.7194W	702	
Menton	MENA	Provence-Cote d'Azur,France	43.7840N	7.4890E	210	From 1999-02-09
Mentor	CMEN	Ohio,U.S.A.	41.6840N	81.4040W	188	
Menzel Bouzelfa	MBZ	Tunisia	36.6800N	10.6700E	220	
Meolans	OG27	Rhone-Alpes,France	44.3932N	6.5085E	1393	From 1991-04-17
Mera	TMS	Chiba,Japan	34.9200N	139.8280E	13	
Merapi	MRP	Jawa,Indonesia	7.4000S	110.2670E		
Merate	MERA	Italy	45.6725N	9.4182E	350	From 2005-10-25
Merauke	MMPI	Irian Jaya,Indonesia	8.4667S	140.3833E	8	
Mercadel, El Hierro	CMCL	Canary Islands,Spain	27.7130N	18.0199W	1105	From 2011-07-01
Merced	S05C	California,U.S.A.	37.3460N	120.3296W	85	From 2005-04-18 to 2007-12-08
Mercer	MCR	Alaska,U.S.A.	63.8952N	149.0590W	456	From 1971-09-01 to 1975-07-31
Mercer Eighty, Eskridge	Q35A	Kansas,U.S.A.	38.8586N	96.0368W	402	From 2010-05-12 to 2012-03-10
Mercury	MCN	Nevada,U.S.A.	36.9315N	116.0560W		
Mercury	MCY	Nevada,U.S.A.	36.6620N	115.9621W	1308	From 1980-03-07 to 2002-10-10
Mercury	MCV	Nevada,U.S.A.	36.6335N	116.0000W	1158	From 1971-01-01 to 1979-08-31
Mercy Hot Springs	BMSM	California,U.S.A.	36.6580N	120.7940W	769	From 1973-12-06
Merida	MER	Yucatan,Mexico	20.9475N	89.6164W	7	
Meridian	MRO	Oklahoma,U.S.A.	35.8356N	97.2265W	294	From 1978-03-16 to 1982-09-04
Merijarvi	OUF	Finland	64.3673N	24.7314E	95	From 2011-01-10
Meriville Lake	BMRO	Ontario,Canada	44.5952N	81.2174W	178	From 2007-08-02
Merke	MRKS	Kazakhstan	42.7450N	73.2260E	1160	From 2002-11-26
Merkhyat	MRKH	Sudan	15.7010N	32.3670E	446	From 2003-11-01
Merouana	CMER	Algeria	35.6200N	5.9000E	1020	
Merrill Creek	PEMC	New Jersey,U.S.A.	40.7580N	75.0760W	305	
Merrill Creek	FHMC	New Jersey,U.S.A.	40.7510N	75.0400W	256	
Merrill Creek	PMMC	New Jersey,U.S.A.	40.6410N	75.1230W	152	
Merrill Creek	ABMC	New Jersey,U.S.A.	40.6860N	75.0540W	170	
Merrill Creek	PDMC	New Jersey,U.S.A.	40.7560N	75.1170W	232	
Merrill Creek	EPMC	New Jersey,U.S.A.	40.6580N	75.1900W	140	
Merrill Creek	PFMC	New Jersey,U.S.A.	40.7250N	75.1550W	220	
Merrill Creek	HRMC	New Jersey,U.S.A.	40.7230N	75.0890W	295	
Merritt	ME-BC	British Columbia,Canada	50.1058N	120.6656W	1067	From 1962-07-07 to 1962-07-17
Merritt	ME-	British Columbia,Canada	50.1058N	120.6656W	1067	From 1962-07-07 to 1962-07-17
Mersa Alam	EMRS	Egypt	25.0131N	34.8387E	213	From 2003-06-20

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Mersin	DED	Turkey	36.9614N	34.7993E	479	From 2007-02-10
Mersin	MERS	Turkey	36.8677N	34.5222E	802	From 2005-08-23
Mersin	KIZK	Turkey	36.4803N	34.1437E	165	From 2009-06-10
MERSIN_Gulnar	GULN	Turkey	36.1837N	33.5436E	145	From 2011-10-06
Mertquake, Salem	N40A	Iowa,U.S.A.	40.8841N	91.5837W	208	From 2011-08-24
Mertzon	330A	Texas,U.S.A.	31.4063N	101.1752W	742	From 2009-03-04 to 2011-02-07
Meru	MERK	Kenya	0.1925S	37.8095E	920	From 1997-12-01
Merzbaher-Enilchek	MRZ1	Kyrgyzstan	42.2246N	79.8597E	3354	From 2011-08-01
MESA	MESA	Alaska,U.S.A.	60.1790N	141.9485W	1919	
Mesachie Lake	B926	British Columbia,Canada	48.8202N	124.1312W	191	From 2007-11-12
Mesa Falls	YPMF	Idaho,U.S.A.	44.1432N	111.2882W	1786	
Mesagne	MESG	Italy	40.5890N	17.8500E	78	From 2009-05-26
Mesa Lucero	MLM	New Mexico,U.S.A.	34.8144N	107.1450W	2088	From 1976-01-01
Mesa, Roswell	Y25A	New Mexico,U.S.A.	33.9229N	104.6928W	1364	From 2008-04-16 to 2010-03-07
Mesas	MESS	Costa Rica	10.7407N	85.1943W	677	From 2000-01-01
Mesa State College	MSCO	Colorado,U.S.A.	39.0794N	108.5546W	1387	
Mesa Verde	MVCO	Colorado,U.S.A.	37.2103N	108.4986W	2169	From 2006-04-18
Mesquite Ranch, Deming	221A	New Mexico,U.S.A.	32.0094N	107.7782W	1277	From 2008-02-11 to 2010-01-18
Messejana	MESJ	Portugal	37.8400N	8.2200W	147	From 2007-07-04
Messina	MSNA	South Africa	22.3452S	30.0232E	600	
Messina ING	MSI	Sicily,Italy	38.2052N	15.5539E	55	From 1967-07-01
Messina Univ.	MES1	Sicily,Italy	38.1989N	15.5550E	45	
Messina University	MES	Sicily,Italy	38.1989N	15.5550E	45	
Messolongi	MSL1	Greece	38.3727N	21.4243E	14	From 2012-10-01
Messtetten	MSS	Baden-Wurttemberg,Germany	48.1783N	8.9615E	948	From 1933-01-01
Mesters Vig	MVG	Norway	72.2300N	23.9400E	0	From 2010-09-09
Mestia	MTIG	Georgia,Georgia	43.0417N	42.7723E	1395	From 1973-01-01
Met	MTZV	Vietnam	21.5480N	106.3420E	50	From 2002-01-01
Metahra	OMET	Algeria	35.3300N	0.7300W	400	From 2004-12-01
Meteti	UPD2	Panama	8.5475N	78.0148W	86	From 2010-06-01
Methoni	MES2	Greece	36.8245N	21.7071E	52	From 2011-10-14
Metsahovi	MEF	Finland	60.2172N	24.3958E	55	
Metsamor	MCRS	Armenia	40.1883N	44.1383E	850	
Metsamor	METS	Armenia	40.1500N	44.0800E	850	
Metsovon	MEV	Greece	39.7850N	21.2289E	1500	
Mets Parni	METK	Armenia	40.8765N	44.1280E	2160	
Mettingen	NE34	Nordrhein-Westfalen,Germany	52.3110N	7.7710E	122	
Mettma DE	METMA	Baden-Wurttemberg,Germany	47.7121N	8.2529E	618	From 2012-03-06
Metzger Ranch, Havre	A18A	Montana,U.S.A.	48.9198N	109.8459W	804	From 2007-11-20 to 2009-09-03
Meulaboh, Aceh	MLSI	Sumatera,Indonesia	4.2668N	96.4040E	58	
Mexicali	MBIG	Baja California,Mexico	32.4072N	115.1981W	2	From 2008-03-01
Mexican Hat	T18A	Utah,U.S.A.	37.1364N	109.8741W	1297	From 2007-06-23 to 2009-03-05
Mexico City	MEX	Mexico D.F.,Mexico	19.3289N	99.1861W	2280	From 1978-06-01
Meydan	BMDN	Iran	33.6716N	48.8246E	1697	From 2013-09-10
Meyer Farm, Musselshell	E20A	Montana,U.S.A.	46.5038N	108.1301W	954	From 2008-08-09 to 2010-05-30
Meyer Farm, Vandalia	Q44A	Illinois,U.S.A.	38.9032N	89.0170W	164	From 2011-06-07 to 2013-04-15
Meyer Ranch, Chandler	V35A	Oklahoma,U.S.A.	35.7626N	96.8378W	280	From 2010-03-13 to 2012-02-20
Mezcala	MEIG	Guerrero,Mexico	17.9258N	99.6197W	808	From 2005-03-09
Mezhgor'ye	MEZ	Ukraine	48.5140N	23.5140E	440	
Mezontepec	IIZ	Mexico:State,Mexico	19.1875N	99.2413W	3430	
MHIT	MHIT	Flores,Indonesia	8.4500S	119.8900E	123	From 2008-01-01
MHTO	MHTO	Oman	20.9865N	57.9680E	101	
Miami	MIA	Florida,U.S.A.	25.9167N	80.3000W		From 1945-01-01 to 1956-12-31
Miami	IMYA	Iran	36.3416N	60.1017E	1684	From 1999-07-01
Miami Mountain	MMIM	California,U.S.A.	37.4196N	119.7438W	1288	
Miami Univ. Ecology Research Center	P49A	Ohio,U.S.A.	39.5342N	84.7164W	272	From 2012-06-29
Mianeh	MISD	Iran	37.3500N	47.6000E	0	
Miaoli	NMLH	Taiwan region	24.5372N	120.7910E	201	From 2011-01-05
Miaoli City	NML	Taiwan region	24.5650N	120.8260E	45	From 1999-08-04
Mica Creek	MCC	British Columbia,Canada	52.0517N	118.5850W	578	
Mica Creek	MCE	British Columbia,Canada	52.0033N	118.5620W	625	From 1977-06-04 to 1981-08-12
Michaelchurch	MCH1	Wales,United Kingdom	51.9974N	2.9983W	219	From 1978-01-01
Michelle Canyon Maxwell	MCMB1	British Columbia,Canada	52.8217N	123.8190W	1233	From 2007-11-22 to 2008-06-14
Michie	W46A	Tennessee,U.S.A.	35.1333N	88.3783W	145	From 2012-01-14
Michilla	MICH	Antofagasta,Chile	22.6780S	70.1875W	769	
Michilla	MIC	Antofagasta,Chile	22.7064S	70.2669W	100	
Michnevo	MHV	Moskovskaya Oblast',Russia	54.9595N	37.7664E	150	From 1995-05-01
Michoacan	ZEM	Michoacan,Mexico	18.7926N	102.1116W	200	
Michoacan	CBZM	Michoacan,Mexico	18.0150N	102.4050W		
Michoacan	BVTM	Michoacan,Mexico	18.8933N	102.2650W		
Micigliano	RM22	Italy	42.4445N	13.0488E	970	From 2009-04-10 to 2009-06-18
Middleborough	L64A	Massachusetts,U.S.A.	41.9359N	70.8391W	17	From 2013-09-12
Middleburg	MR-	Pennsylvania,U.S.A.	40.8147N	77.1756W	213	From 1962-10-11 to 1962-10-27
Middleburg	MR-PA	Pennsylvania,U.S.A.	40.8147N	77.1756W	213	From 1962-10-11 to 1962-10-27
Middlebury	MDV	Vermont,U.S.A.	43.9992N	73.1812W	134	From 1970-03-01
Middlebury College	MCVT	Vermont,U.S.A.	43.9537N	72.9918W	439	
Middle Cape	MMC	Alaska,U.S.A.	57.3333N	154.6350W	340	From 1971-08-01
Middle Mountain	MMNB	California,U.S.A.	35.9565N	120.4960W	385	
Middle Nowhere	ST39	Xizang Zizhiqu,China	33.7637N	88.4001E	5077	From 1998-07-12 to 1999-06-04
Middlesex	V59A	North Carolina,U.S.A.	35.7649N	78.2394W	58	From 2013-03-12
Middlesex	K56A	New York,U.S.A.	42.6981N	77.3244W	575	From 2013-08-18
Middlesmoor	MMY	England,United Kingdom	54.1758N	1.8689W	427	
Middleton Gardens	MGS	South Carolina,U.S.A.	32.8978N	80.1410W	9	From 1976-03-31
Middleton Island	MID	Alaska,U.S.A.	59.4278N	146.3390W	37	From 1964-04-10
Middletown	NMTM	California,U.S.A.	38.8057N	122.4460W	422	From 1975-06-26
Midelt	MDT	Morocco	32.8169N	4.6139W	1200	
Midewin, Midewin Nat. Tallgrass Prairie	M44A	Illinois,U.S.A.	41.3882N	88.0432W	207	From 2011-10-21
Midland	I28A	South Dakota,U.S.A.	43.9996N	101.1692W	655	From 2009-06-13 to 2011-05-27
Mid-South CC	MCAR	Arkansas,U.S.A.	35.1449N	90.2225W	0	
Midway	251A	Alabama,U.S.A.	32.0929N	85.4090W	139	From 2012-01-24
Midway	MDW	Washington,U.S.A.	46.6132N	119.7610W	330	From 1969-03-01
Midway	MDY	Midway Islands,U.S.A.	28.2067N	177.3330W		From 1966-01-01 to 1970-12-31
Midway	MIDW	Midway Islands,U.S.A.	28.2157N	177.3697W	-75	
Midwest	J22A	Wyoming,U.S.A.	43.4126N	106.4785W	1587	From 2008-08-06 to 2010-09-07
Midwestern State University	MSUEL	Texas,U.S.A.	33.8735N	98.5195W	294	From 2004-02-07
Miekihoku	JKN2	Mie,Japan	34.2390N	136.2737E	80	From 2005-03-23
Miemihama	JMMH	Mie,Japan	33.8192N	136.0253E	75	From 2012-11-01
Miglionico	MIGL	Italy	40.6044N	16.4410E	440	From 2006-08-07
MIHALICIK	AUMIH	Turkey	39.8679N	31.4832E	1416	From 2010-02-05
Mihama	JFM	Kyoto,Japan	35.5283N	135.9833E	161	
Mihama	MHJ	Fukui,Japan	35.5306N	135.9789E	260	
Mijas	EMIJ	Spain	36.5645N	4.7727W	470	
Mikata	JMT	Hyogo,Japan	35.4433N	134.5350E	270	
Mikawa	MIKN	Aichi,Japan	34.7626N	137.4701E	76	
Mikawa	MKW	Hiroshima,Japan	34.6111N	133.1070E	320	From 1967-09-01
Mikazuki	MZT	Hyogo,Japan	34.9867N	134.4446E	200	
Mikes Peak	CMPM	California,U.S.A.	37.3577N	121.3183W	760	
Miki	JMIK	Hyogo,Japan	34.8070N	135.0538E	160	
Mikurajimanishikawa	JMKN	Tokyo,Japan	33.8923N	139.5907E	149	
Mila	MILA	New South Wales,Australia	37.0547S	149.1550E	785	From 2001-07-16
Milaca	F36A	Minnesota,U.S.A.	45.8618N	93.5241W	345	From 2010-09-11 to 2012-07-27
Milagra Ridge	JMGM	California,U.S.A.	37.6370N	122.4740W	201	From 1971-08-31
Milagra Ridge	MGA	California,U.S.A.	37.6370N	122.4740W	201	From 1971-08-31
Milagro-Astudillo	MILO	Ecuador	2.2792S	79.5557W	56	From 2012-07-13
Milagro (Transelectric)	AMIL	Ecuador	2.1350S	79.5947W	12	From 2012-05-26
Milan	L49A	Michigan,U.S.A.	42.1088N	83.7672W	230	From 2012-07-20
Milan	MIL	Italy	45.4667N	9.1833E	124	
Milan	H62A	New Hampshire,U.S.A.	44.5743N	71.1559W	381	From 2013-09-19
Milan	MILT	Tennessee,U.S.A.	35.8489N	88.7329W	146	From 1985-11-01
Milan	V21A	New Mexico,U.S.A.	35.8054N	107.6378W	2046	From 2008-02-18 to 2009-11-22
Milan	M41A	Illinois,U.S.A.	41.3750N	90.5422W	226	From 2011-07-31
Milano	MILN	Italy	45.4803N	9.2321E	125	From 2006-06-01
Milas	MLSB	Turkey	37.2953N	27.7765E	500	From 2003-09-16
Milazzo	MILZ	Sicily,Italy	38.2713N	15.2313E	0	From 1995-01-01
Mildenfurth	MLFH	Germany	50.7901N	12.0809E	212	From 2010-09-16
Mile High Drive	MHD	Utah,U.S.A.	40.6607N	111.8010W	1597	From 1990-10-04
Miles City	E22A	Montana,U.S.A.	46.4386N	105.9488W	784	From 2008-10-30 to 2010-08-05
Milestii Mici	MILM	Moldova	46.9186N	28.8127E	64	From 2009-12-22
Mileto	MLE	Italy	38.6000N	16.0500E	360	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Milford	Q61A	Delaware,U.S.A.	38.8799N	75.3256W	5	From 2013-05-28
Milford	MLF	Ohio,U.S.A.	39.1374N	84.2774W	238	From 1963-01-01
Milford	J35A	Iowa,U.S.A.	43.3655N	95.2078W	457	From 2010-07-29 to 2012-05-16
Milford North	MNU	Utah,U.S.A.	38.6197N	112.8470W	1664	From 1977-01-01
Milford Reservoir	MLK	Kansas,U.S.A.	39.1073N	96.8933W	386	From 1977-08-15
Milford Sound	MSZ	South Island,New Zealand	44.6733S	167.9264E	55	From 1966-03-03
Milimani	MILK	Kenya	0.1140S	34.7510E	1142	From 1997-02-01 to 1998-03-31
Military Pass	LMPM	California,U.S.A.	41.4883N	122.1620W	1865	
Milkovo	MLKS	Kamchatskaya Oblast',Russia	54.7000N	158.6300E	90	From 1962-01-01 to 1993-12-31
Milk River, Alberta	MKRVA	Alberta	49.1430N	111.7755W	961	From 2014-07-31
Milladeo Hill, Quello@15n	GO07	Chile	43.1142S	73.6644W	179	
Mill City	MILG	California,U.S.A.	37.6213N	118.9870W	2536	From 1981-07-01
Mill Creek	MLL	California,U.S.A.	34.0913N	116.9360W	1513	
Mill Creek, Sonoma County	NMCNC	California,U.S.A.	38.5909N	122.9129W	119	From 1988-03-23
Millendorf	BD03	Nordrhein-Westfalen,Germany	50.9917N	6.5570E	70	From 2001-01-01
Miller	BRSD	South Dakota,U.S.A.	44.4430N	98.9563W	519	From 2008-10-05 to 2010-06-29
Miller	SUSD	South Dakota,U.S.A.	44.4429N	98.9556W	520	From 2010-07-24
Miller Mountain	MILR	Nevada,U.S.A.	38.0247N	118.1868W	2030	
Miller Ranch	MT3	Texas,U.S.A.	30.5419N	104.6570W	1481	From 1977-06-01 to 2003-01-28
Miller Ranch, Amidon	E25A	North Dakota,U.S.A.	46.5009N	103.4013W	885	From 2009-06-11 to 2011-06-18
Millersview	332A	Texas,U.S.A.	31.3829N	99.7423W	513	From 2009-03-06 to 2011-01-25
Millersville	MVL	Pennsylvania,U.S.A.	39.9992N	76.3506W	91	
Millerton Lake Dam, Friant	T06C	California,U.S.A.	37.0069N	119.7089W	216	From 2004-12-06 to 2007-12-06
Millington	MLNT	Tennessee,U.S.A.	35.3340N	89.9300W	100	
Millom	LMI	England,United Kingdom	54.2206N	3.3070W	140	From 1989-01-01
Mills College	CMCM	California,U.S.A.	37.7813N	122.1760W	90	From 1971-07-20
Millsfield	MFTN	Tennessee,U.S.A.	36.1610N	89.3930W	113	
Milner Canyon	MLNR	California,U.S.A.	37.5937N	118.3437W	1780	
Milo	MIM	Maine,U.S.A.	45.2436N	69.0403W	140	From 1975-07-01 to 2004-10-14
Milos	MHL	Greece	36.6828N	24.3958E	400	
Milroy	N57A	Pennsylvania,U.S.A.	40.7556N	77.5509W	306	From 2013-05-13
Milroy	P48A	Indiana,U.S.A.	39.4605N	85.4258W	300	From 2012-06-25
Milton-Freewater	MFW	Oregon,U.S.A.	45.9030N	118.4060W	384	From 1971-10-01
Milwaukee	MLW	Wisconsin,U.S.A.	43.0333N	87.9167W	194	From 1909-01-01 to 1957-12-31
Mimaanabuki	JMAF	Tokushima,Japan	34.0433N	134.1517E	220	From 2012-07-01
Mina	MINR	Krasnoyarskiy Kray,Russia	54.9000N	94.2000E	510	
Mina	R08A	Nevada,U.S.A.	38.3489N	118.1064W	1419	From 2006-03-03 to 2008-03-24
Mina	MN-NV	Nevada,U.S.A.	38.4361N	118.1481W	1524	
Mina	MN-	Nevada,U.S.A.	38.4361N	118.1481W	1524	
Mina	MNV	Nevada,U.S.A.	38.4322N	118.1540W	1507	From 1970-05-26
Mina	MNA	Nevada,U.S.A.	38.4328N	118.1570W	1525	
Mina Array Beam Reference Point	NVAR	Nevada,U.S.A.	38.4296N	118.3036W	2041	
Mina Array Site 1	NV01	Nevada,U.S.A.	38.4296N	118.3035W	2029	
Mina Array Site 10	NV10	Nevada,U.S.A.	38.4488N	118.3194W	2133	
Mina Array Site 2	NV02	Nevada,U.S.A.	38.4374N	118.3049W	2094	
Mina Array Site 3	NV03	Nevada,U.S.A.	38.4279N	118.2937W	1978	
Mina Array Site 32	NV32	Nevada,U.S.A.	38.3342N	118.3003W	1836	
Mina Array Site 33	NV33	Nevada,U.S.A.	38.4858N	118.4238W	1946	
Mina Array Site 4	NV04	Nevada,U.S.A.	38.4232N	118.3068W	1984	
Mina Array Site 5	NV05	Nevada,U.S.A.	38.4464N	118.2913W	2186	
Mina Array Site 6	NV06	Nevada,U.S.A.	38.4224N	118.2744W	1936	
Mina Array Site 7	NV07	Nevada,U.S.A.	38.4105N	118.2949W	1849	
Mina Array Site 8	NV08	Nevada,U.S.A.	38.4041N	118.3184W	1798	
Mina Array Site 9	NV09	Nevada,U.S.A.	38.4354N	118.3352W	1918	
Mina Array Sites 11 and 31	NV11	Nevada,U.S.A.	38.4320N	118.1554W	1509	
Minab	MNB1	Iran	27.1061N	57.0998E	29	From 2013-05-15
Minabe	JWM	Wakayama,Japan	33.8492N	135.3547E	170	
Mina Concepcion	EMIN	Spain	37.7675N	6.6724W	240	
Mina Guanaco	GO02	Tarapaca,Chile	25.1626S	69.5904W	2556	
Minamiashigara	ASG	Kanagawa,Japan	35.3138N	139.0279E	386	
Minamidaito 2	JMZ	Ryukyu Islands,Japan	25.8190N	131.2207E	50	
Minamidaito jima	MVI	Ryukyu Islands,Japan	25.8283N	131.2350E	14	From 1974-02-01
Minami-Gairin	SRMH	Iburi,Japan	42.5312N	140.8330E	476	
Minamiizu	MIZN	Shizuoka,Japan	34.6889N	138.8424E	105	
Minamisoumatochikubo	JMST	Fukushima,Japan	37.7246N	140.8874E	53	From 2013-07-01
Minamitane	JMTN	Kagoshima,Japan	30.3973N	130.9005E	186	From 2012-07-01
Minami-tori-shima	MCSJ	Marcus Island,Japan	24.2900N	153.9780E	10	
Minaret Summit	MINS	California,U.S.A.	37.6538N	119.0609W	2796	
Minazif	UOSS	Fujairah,United Arab Emirates	24.9453N	56.2042E	283	
Mineo	MNE	Sicily,Italy	37.2500N	14.7333E	510	
Mineo	HMNO	Sicily,Italy	37.3180N	14.6000E	530	From 1994-05-01
Mineoka	MNJ	Chiba,Japan	35.1019N	139.9908E	100	
Minera del Fierro	MFCH	Maule,Chile	35.0244S	70.4411W	1920	
Mineral	R58B	Virginia,U.S.A.	37.9636N	77.8787W	116	From 2012-08-02
Mineral	MIN	California,U.S.A.	40.3460N	121.6066W	1470	From 1938-01-01 to 2000-06-29
Minerbio Fiu	FIU	Italy	44.6395N	11.4917E	12	
Minerbio--Passere	PASE	Italy	44.6062N	11.4567E	12	
Minerbio--Torre	TORE	Italy	44.6072N	11.5255E	16	
Miners Draw (BLM), Jensen	O19A	Utah,U.S.A.	40.2982N	109.1236W	1649	From 2007-08-20 to 2009-11-11
Miners Mountain	MMU	Utah,U.S.A.	38.1985N	111.2940W	2387	From 1980-10-01
Minervino Murge	MRVN	Italy	41.0609N	16.1958E	610	From 2007-04-24
Mines Road	CB9	California,U.S.A.	37.5947N	121.6370W	500	From 1969-04-17 to 2008-07-16
Mines Road	CL2	California,U.S.A.	37.6275N	121.7080W	245	From 1979-11-29
Mines Road	MNR	California,U.S.A.	37.5947N	121.6370W	500	From 1969-04-17 to 2008-07-16
Mines Road	CMRM	California,U.S.A.	37.5947N	121.6370W	500	From 1969-04-17 to 2008-07-16
Mines Road	CMNM	California,U.S.A.	37.6275N	121.7080W	245	From 1979-11-29
Mineville/Witherbee	MIV	New York,U.S.A.	44.0747N	73.5340W	317	From 1985-06-01
Mingacevir	MGC	Azerbaijan	40.7700N	47.0600E	30	From 1968-01-01
Mingechevir, Azerbaijan	MNGR	Azerbaijan	40.7730N	47.0850E	100	From 2010-01-14
Mingjian	WNT	Taiwan region	23.8780N	120.6840E	110	
Minicoy	MNCI	Laccadive Islands,India	8.2815N	73.0598E	2	
Minicoy	MNCY	Laccadive Islands,India	8.2667N	73.0333E	0	
Minitrack	MIK	Alaska,U.S.A.	64.8723N	147.8280W	160	From 1970-05-01 to 1975-03-31
Mink Peak	MKMT	Montana,U.S.A.	47.1032N	115.1138W	2088	
Minneapolis	MFM	Minnesota,U.S.A.	44.9141N	93.1930W	226	
Minneapolis	MNM	Minnesota,U.S.A.	44.9740N	93.2381W	204	From 1974-12-01 to 1976-12-31
Minneapolis	MNN	Minnesota,U.S.A.	44.9144N	93.1900W	217	From 1964-01-01 to 1967-12-31
Minoodasht	IMIN	Iran	37.1422N	55.2336E	180	From 2000-08-01
Minoodasht	IMND	Iran	37.2575N	55.4069E	180	From 1991-08-01
Minshiung	CHN2	Taiwan region	23.5320N	120.4750E	45	
Minsk	MICGM	Belarus	54.5021N	27.8833E	196	From 1963-01-03
Minsk	MNK	Belarus	54.5021N	27.8833E	196	
Minucciano (LU)	T0912	Italy	44.1685N	10.2095E	686	From 2013-06-21
Minye Minye	MNMCX	Tarapaca,Chile	19.1310S	69.5955W	2304	From 2012-01-01
Minye Minye	MNMC	Tarapaca,Chile	19.1311S	69.5955W	2304	
Mio	H47A	Michigan,U.S.A.	44.5994N	84.2062W	356	From 2012-11-08
Miomork	IMID	Iceland	63.6580N	19.8860W	132	From 1989-12-21
Miracle	EMIR	Spain	41.9144N	1.5258E	841	
Miradouro	MIRA	Azores,Portugal	37.7855N	25.2787W	702	From 1999-04-27
Miraflores	MRF	Peru	12.1316S	77.0249W		
Mira Loma	MLSC	California,U.S.A.	34.0046N	117.5616W	230	
Miramar	MIRN	Nicaragua	12.4400N	86.7117W	280	
Miramichi	MINB	New Brunswick,Canada	46.9700N	66.5300W	0	From 1982-06-01
Miranda	MIDA	Italy	41.6419N	14.2540E	950	From 2004-07-07
Mirandola	SGIA	Italy	44.8592N	11.0358E	20	
Mirandola (MO)	MIR02	Italy	44.8870N	11.0732E	18	From 2012-05-22
Mirandola (MO)	MIR03	Italy	44.9384N	11.1045E	10	From 2012-05-23
MIRINA LIMNOU	LMN1	Greece	39.8750N	25.0588E	18	From 2013-02-01
Mirnyy	MIR	Queen Mary Land	66.5514S	93.0167E	34	
Mirrayikh	MYKS	Saudi Arabia	21.5545N	39.3323E		
Mirror Lake Plateau	YMP	Wyoming,U.S.A.	44.7402N	110.1560W	2774	
MIRYANG	KSMIY	Republic of Korea	35.4864N	128.7412E	13	From 2000-03-04
Miryang-si	MIYA	Republic of Korea	35.4917N	128.7445E	50	From 2011-10-05
Misaki	MSK	Kanagawa,Japan	35.1500N	139.6170E		
Misakicho	RUSJ	Hokkaido,Japan	44.1043N	145.2477E	70	
Misakubo	MSKJ	Shizuoka,Japan	35.1934N	137.9390E	754	From 1979-04-01
Misere	A54	Quebec,Canada	47.4567N	70.4125W	381	From 1977-08-30
Misericordia	VMS	Luzon,Philippines	13.2500N	123.7550E		
Mishima	MIS	Shizuoka,Japan	35.1117N	138.9300E	22	

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Mishlifen	MIF	Morocco	33.4090N 5.2290W	2070	
Misima Island	MISM	Papua New Guinea	10.6854S 152.8401E	17	From 2013-05-10
Misoa	MISV	Venezuela	9.9730N 70.9256W	768	
Misono	MSN	Hidaka,Japan	42.4232N 142.5414E	100	From 1976-07-01
Misrath	LMSR	Libya	32.3125N 15.0083E	114	
Mission Creek	MSMT	Montana,U.S.A.	45.6305N 110.3537W	1926	
Mission Ridge	H28A	South Dakota,U.S.A.	44.6751N 101.0206W	642	From 2009-06-12 to 2011-05-07
Mission San Jose	MSJ	California,U.S.A.	37.5202N 121.8733W	479	From 1972-07-01
Mission San Jose	CMJM	California,U.S.A.	37.5202N 121.8733W	479	From 1972-07-01
Missoula	MSO	Montana,U.S.A.	46.8292N 113.9406W	1264	From 1973-11-01
Miston	MIST	Tennessee,U.S.A.	36.1707N 89.5023W	80	
Mistretta	ME01	Italy	37.9329N 14.3611E	944	From 2007-10-18 to 2009-02-03
Mitaka	MTK	Tokyo,Japan	35.6667N 139.5000E	57	
Mitchell	MC-SD	South Dakota,U.S.A.	43.6544N 97.9194W	366	From 1962-05-09 to 1962-06-28
Mitchell	MH-	Nebraska,U.S.A.	41.8889N 103.8917W	1311	From 1962-10-15 to 1962-10-27
Mitchell	MH-NB	Nebraska,U.S.A.	41.8889N 103.8917W	1311	From 1962-10-15 to 1962-10-27
Mitchell	MC-	South Dakota,U.S.A.	43.6544N 97.9194W	366	From 1962-05-09 to 1962-06-28
Mitchell Dam	HDG10	British Columbia,Canada	52.9343N 132.1304W	5	From 2012-11-16
Mitchell Dam	HG1B	British Columbia,Canada	52.9345N 132.1307W	5	From 2012-11-14
Mitchell Field	MFA	Alaska,U.S.A.	51.9350N 176.5920W		From 1949-07-01 to 1952-12-31
Mitchell Peak, Miramonte	HELL	California,U.S.A.	36.6801N 119.0228W	1145	From 2005-02-11 to 2007-10-14
Mito	MIT	Ibaraki,Japan	36.3783N 140.4720E	29	
Mitogawa	MTGE	Wakayama,Japan	33.5539N 135.6874E	60	
Mitoyo	MITH	Iburi,Japan	42.5728N 140.7804E	325	
Mitsuishi	MUJ	Hidaka,Japan	42.2831N 142.5856E	60	
Mitsune	JHJ2	Bonin Islands,Japan	33.1117N 139.8167E	70	
Mitta Mitta	MITM	Victoria,Australia	36.7317S 147.6587E	470	
Mi Wuk Village	MMWM	California,U.S.A.	38.0638N 120.1810W	1411	From 1976-07-12
Mix Canyon Road	NMXM	California,U.S.A.	38.4113N 122.0570W	177	From 1971-06-12
Mix Canyon Road	MIX	California,U.S.A.	38.4113N 122.0570W	177	From 1971-06-12
Miyake jima	MKJ	Bonin Islands,Japan	36.1100N 139.5283E	170	From 1972-02-01
Miyakejima3	JMY	Bonin Islands,Japan	34.0715N 139.5127E	470	
Miyako	MIY	Iwate,Japan	39.6450N 141.9680E	46	
Miyako	MKO	Iwate,Japan	39.5900N 141.9820E	125	From 1968-09-01
Miyako jima 2	JMJ	Ryukyu Islands,Japan	24.8147N 125.2935E	43	
Miyako jima3	JMJ2	Ryukyu Islands,Japan	24.7408N 125.3277E	46	From 2013-05-01
Miyakonagasawa	MIYJ	Iwate,Japan	39.5767N 141.8197E	200	From 1990-04-23
Miyako zima	MYK	Ryukyu Islands,Japan	24.7917N 125.2783E	41	
Miyama	JGM	Gifu,Japan	35.6993N 136.7182E	495	
Miyazaki	MYZ	Miyazaki,Japan	31.9200N 131.4233E	7	
Miyazaki 2	MYZ2	Miyazaki,Japan	31.8967N 131.4120E	12	
Miyazu	MYD	Kyoto,Japan	35.5333N 135.2000E		
Mizel	MZLS	Saudi Arabia	24.0275N 45.2071E	880	
Mizumiiro	MZI	Shizuoka,Japan	35.0440N 138.2936E	400	
Mizusawa	MIZ	Iwate,Japan	39.1343N 141.1360E	63	From 1902-01-01
Mizusawa	MIW	Iwate,Japan	39.1343N 141.1360E	63	From 1902-01-01
Mjoaskard	IMJO	Iceland	63.9329N 19.6724W	704	From 2011-12-15
M & M Farms, Shelby	B16A	Montana,U.S.A.	48.4128N 111.7073W	1038	From 2007-09-26 to 2009-08-12
Mnogovershinnie	MNVS	Khabarovskiy Kray,Russia	53.8460N 139.8420E	350	
Moa	MOAC	Cuba	20.6600N 74.9600W		
Moab	MBUT	Utah,U.S.A.	38.5334N 109.5099W	1376	From 2006-07-27
Moab Khotsong	MOAB	Transvaal,South Africa	26.9870S 26.7990E	1370	From 2008-05-13
Moama Anglican Grammar School	AUMAG	New South Wales,Australia	36.1000S 144.7500E	127	From 2013-05-13
Moapa	T12A	Nevada,U.S.A.	36.7256N 114.7147W	538	From 2007-01-24 to 2008-10-11
Moar Alm	RMOA	Bayern,Germany	47.7617N 12.8645E	815	From 2001-08-24
Moawhango	MOVZ	North Island,New Zealand	39.4067S 175.7529E	874	From 2004-06-01
Moca	SRO2	Slovakia	47.7627N 18.3940E	109	From 2004-09-25
Moca	MCP	Puerto Rico	18.4190N 67.1107W	250	From 1975-11-14 to 1999-08-25
Moca	MCAB	Puerto Rico	18.4100N 67.0800W	303	
Moca	MOCA	Puerto Rico	18.4143N 67.0775W		
Moca	MFP	Fernando Poo,Equatorial Guinea	3.3418N 8.6609E	1338	From 1963-10-01
Moc Chau	MCVV	Vietnam	20.8000N 104.6500E	800	From 2005-03-15
Mochara	MOCB	Bolivia	21.2505S 65.6380W	3580	From 1993-06-01
Mocksville	V56A	North Carolina,U.S.A.	35.8097N 80.4963W	237	From 2013-03-24
Mocoron	MOCN	Nicaragua	12.7817N 87.0400W		
Model	MOTN	Tennessee,U.S.A.	36.6180N 87.9867W	177	
Modelwitz	MODW	Thuringen,Germany	50.9426N 12.4682E	240	From 2009-09-01
Modena	MODE	Italy	44.6297N 10.9492E	41	From 2007-10-18
Modica	HMDC	Sicily,Italy	36.9580N 14.7820E	540	From 1994-05-01
Modoc Plateau	MOD	California,U.S.A.	41.9025N 120.3029W	1554	From 1999-10-16
Modra-Piesok	MODS	Slovakia	48.3736N 17.2774E	520	
Moessingen	MSG	Baden-Wurttemberg,Germany	48.3992N 9.0353E	475	From 1971-01-01
Moffat	R23A	Colorado,U.S.A.	38.1907N 105.8264W	2547	From 2008-11-05 to 2010-06-17
Moffit Pass	N17A	Utah,U.S.A.	40.9425N 110.8335W	2500	From 2007-07-11 to 2009-04-22
Moffitt Ranch	GMOM	California,U.S.A.	38.7102N 123.1430W	802	From 1975-05-07
Mogadiscio	MOG	Somalia	2.0333N 45.3500E		
Moghan	IMOG	Iran	36.1082N 59.3393E	2577	From 1999-07-01
Moghavemat	SMGT	Iran	30.7811N 48.2626E	4	From 2010-08-11
Moglia (MN)	T0827	Italy	44.9377N 10.9319E	10	From 2012-05-30 to 2012-09-19
MOGNA	AMOG	San Juan,Argentina	30.9388S 68.4928W	830	From 1996-09-25
Mogollon	ML-NM	New Mexico,U.S.A.	33.4147N 108.8364W	1646	From 1961-12-15 to 1962-02-16
Mogollon	ML-	New Mexico,U.S.A.	33.4147N 108.8364W	1646	From 1961-12-15 to 1962-02-16
Mogosoaia	PMGR	Romania	44.5275N 25.9939E	141	From 2006-11-23
Mogosoaia	MOGR	Romania	44.5649N 25.9417E	144	From 2003-10-26
Mogote Corralitos	AMLC	San Juan,Argentina	31.3088S 67.9248W	3100	
Mohaka	MOH	North Island,New Zealand	39.1307S 177.1480E	245	From 1987-03-19 to 1997-05-25
Mohawk Valley, Roll	113A	Arizona,U.S.A.	32.7683N 113.7667W	118	From 2007-05-08 to 2010-05-28
Mohican School	MOSO	Ohio,U.S.A.	40.6115N 82.3827W	370	
Mohonk Preserve	NPNY	New York,U.S.A.	41.7546N 74.1435W	216	From 2007-09-07
Moikau	MOW	North Island,New Zealand	41.4200S 175.2522E	430	From 1978-01-31 to 2003-09-13
Moikau Station	MSWZ	North Island,New Zealand	41.4158S 175.2495E	403	From 2003-08-28
Moi Rana	MOR2	Norway	66.2366N 14.7741E		From 1989-01-01 to 1989-12-12
Moi Rana	MOR7	Norway	66.2850N 14.7350E	435	From 1990-05-23 to 1993-08-31
Moi Rana	MOR1	Norway	66.2374N 14.7721E	650	From 1989-01-01 to 1989-12-12
Moi Rana	MOR8	Norway	66.1713N 14.4411E	445	From 1993-08-01
Moi Rana	MOR4	Norway	66.2367N 14.7668E		From 1989-01-01 to 1989-12-12
Moi Rana	MOR6	Norway	66.2370N 14.7670E	650	From 1986-02-01 to 1989-12-12
Moi Rana	MOR3	Norway	66.2357N 14.7724E		
Moi Rana	MOR5	Norway	66.2377N 14.7664E		
Mojave River Dam	MRD	California,U.S.A.	34.6757N 117.2410W	969	
Mojotorillo	BS03	Bolivia	19.3170S 64.3800W	3664	From 2011-09-09
Mokapu	MOK	Hawaii,U.S.A.	21.4565N 157.7370W	90	From 1965-04-01 to 1999-08-25
MOKOCHONG	MOKO	Nagaland,India	26.3210N 94.5156E	1353	From 2011-05-01
Mokollar	IMKO	Iceland	64.9778N 16.3391W	660	From 2005-11-01
Mokpo	KSMOK	Republic of Korea	34.7656N 126.7378E	140	From 2008-01-01
Mokpo	KSMOP	Republic of Korea	34.8083N 126.3766E	37	From 2000-02-11
Moku'a@18weoweo	MWH	North America,U.S.A.	19.4850N 155.5970W	4104	
Mol	BMOL	Belgium	51.2144N 5.0861E	-198	From 2008-06-03
Molcaxac	MOPM	Puebla,Mexico	18.7333N 97.9167W	1840	
Molde	MOL	Norway	62.5700N 7.5480E	98	From 1987-02-01
Moldovita	MDVR	Romania	44.7815N 21.7128E	720	From 2010-11-09
Molesworth	MLWM	Victoria,Australia	37.1368S 145.5105E	280	
Moliterno	MOLE	Italy	40.2514N 15.8296E	1130	
Molkenrain	MOF	Alsace,France	47.8517N 7.1332E	1085	From 1982-01-01
Mollejon	MOLL	Venezuela	7.7350N 71.6289W	900	From 1984-01-01
Molln	MOA	Austria	47.8495N 14.2659E	572	From 1996-01-01
Moma	MOMR	Sakha,Russia	66.4667N 143.2167E	192	
Mombacho	MOBN	Nicaragua	11.8317N 85.9777W	1000	
Mombaroccio (PU)	AD03	Italy	43.7910N 12.8474E	377	From 2010-03-29
Momias	MOMI	Spain	36.3301N 5.7200W	370	
Momote	MOM	Admiralty Islands,Papua New Guinea	2.0417S 147.4020E	10	From 1969-10-01
Momotombo	MOMJ	Nicaragua	12.4083N 86.5400W	500	
Momotombo	MOMN	Nicaragua	12.4083N 86.5400W	500	
Mompiche	AMOM	Ecuador	0.4923N 80.0465W	27	From 2011-04-07
Monaco	MON	Monaco	43.7306N 7.4250E	52	
Mona Island, PR	IMPR	Puerto Rico	18.0770N 67.9311W	9	From 2009-07-15
Monand	IMON	Iran	33.1922N 59.6667E	2150	From 2005-12-01
Monarch Peak	PMPM	California,U.S.A.	36.2157N 120.7974W	754	From 1970-08-14 to 2011-07-22
Monarch Peak	PMPB	California,U.S.A.	36.2159N 120.8013W	802	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Monarch Peak	MOP	California,U.S.A.	36.2157N	120.7974W	754	From 1970-08-14 to 2011-07-22
Monasavu	MSV	Fiji	17.7578S	178.0544E	626	From 1983-02-01
Monastery St. Joachim Osogovski	KPJ	FYR Macedonia	42.2092N	22.3617E	700	From 1995-01-01
Monastry St. Andrei	MSAB	Romania	44.0910N	27.8256E	106	From 2000-10-24
Moncalieri	MNC	Italy	45.0000N	7.7000E	238	
Moncks Corner	MKC	South Carolina,U.S.A.	33.1900N	80.0400W	25	From 1973-03-13 to 1973-10-01
Moncorvo	MVO	Portugal	41.1644N	7.0289W	860	From 1980-08-01
Moncucco Torinese	MONC	Italy	45.0739N	7.9271E	480	From 2005-01-13
Mondaino (RN)	AD02	Italy	43.8471N	12.6687E	355	From 2010-03-30
Mondonedo	EMON	Spain	43.4361N	7.3298W	615	From 1988-07-01
Mondragone	MODR	Italy	41.1459N	13.8779E	345	From 2007-06-19
Mondy	MOY	Buryatiya,Russia	51.6667N	100.9931E	1303	
Monemvasia	MNVA	Greece	36.6871N	23.0374E	7	From 2010-05-13
Monesi	MONE	Italy	44.0795N	7.7550E	1320	From 1991-06-01 to 2009-09-30
Monestir Poblet	POBL	Spain	41.3793N	1.0847E	515	
Monetta	MTT	South Carolina,U.S.A.	33.7503N	81.6400W	182	From 1976-08-09
Mongiuffi-Melia	MMME	Sicily,Italy	37.9350N	15.2540E	905	From 1993-12-01
Mongu	MONG	Zambia	15.1500S	23.0900E	1057	
Moni Apezanon	APEZ	Crete,Greece	34.9777N	24.8859E	435	
Monida	MOMT	Montana,U.S.A.	44.5933N	112.3940W	2220	
Monjas	MJAS	Ecuador	0.2520S	78.4980W	2800	
Monmouth	MONM	Wales,United Kingdom	51.8396N	2.8054W	145	From 2009-07-14
Monmouth DOGAMI SMO	MONO	Oregon,U.S.A.	44.8537N	123.2414W	60	From 2008-02-12
Monnetier-Mornex	OG02	Rhone-Alpes,France	46.1542N	6.2208E	620	From 1989-11-10
Monobe	JMN	Kochi,Japan	33.7282N	133.8790E	550	
Mono Craters	MCRR	California,U.S.A.	37.8872N	118.9937W	2268	
Mono Craters	MCCR	California,U.S.A.	37.9194N	119.0253W	2255	
Mono Lake	ML1CL	California,U.S.A.	37.8806N	118.8494W	2512	From 1966-08-22 to 1966-08-26
Mono Lake	ML4	California,U.S.A.	38.3058N	119.5536W	2195	From 1966-08-23 to 1966-09-09
Mono Lake	ML4CL	California,U.S.A.	38.3058N	119.5536W	2195	From 1966-08-23 to 1966-09-09
Mono Lake	ML3	California,U.S.A.	37.5494N	118.8153W	2512	From 1966-08-25 to 1966-09-09
Mono Lake	ML3CL	California,U.S.A.	37.5494N	118.8153W	2512	From 1966-08-25 to 1966-09-09
Mono Lake	ML2	California,U.S.A.	38.0806N	119.2442W	2987	From 1966-08-24 to 1966-09-09
Mono Lake	ML2CL	California,U.S.A.	38.0806N	119.2442W	2987	From 1966-08-24 to 1966-09-09
Mono Lake	ML1	California,U.S.A.	37.8806N	118.8494W	2512	From 1966-08-22 to 1966-08-26
Monomi-yama	K08	Iwate,Japan	39.3128N	141.5244E	488	
Mono Valley	MONR	California,U.S.A.	38.0608N	118.7760W	2179	From 1974-07-01 to 2002-10-10
Monowai	MNW	South Island,New Zealand	45.7787S	167.6188E	155	From 1935-07-01 to 1978-11-26
Monroe	142A	Louisiana,U.S.A.	32.5488N	91.9457W	23	From 2011-02-22 to 2012-11-13
Monroe	Y53A	Georgia,U.S.A.	33.8554N	83.5836W	234	From 2012-04-12
Monroe Substation	MBPA	Washington,U.S.A.	47.8985N	121.8889W	186	
Monserrat	MRB	Spain	41.5950N	1.8372E	860	
Monsted	NE02	Denmark	56.4590N	9.1700E	60	From 1983-02-01 to 2001-07-28
Monsted U'grnd	MUD	Denmark	56.4550N	9.1733E	12	From 1982-03-01
Mont	MONL	Aquitaine,France	43.4328N	0.6506W	100	
Montachique	MTH	Portugal	38.8967N	9.1925W	409	
Montagna Grande	MTGR	Sicily,Italy	37.8934N	12.7593E	751	From 2000-07-01
Montagne du Rey	REYF	Aquitaine,France	43.0697N	0.3925W	1000	From 1996-12-12
Montagnes des Pe@15res	MDP	French Guiana,France	5.1014N	52.6416W	110	
Montagnes des Peres	MPGF	French Guiana,France	5.1100N	52.6440W	147	
Montagne Vauclin	MVM	Martinique,France	14.5545N	60.8955W	361	From 1975-01-01
Montagny	OG11	Rhone-Alpes,France	45.4527N	6.6095E	1120	From 1993-07-07
Montague	B040	California,U.S.A.	41.8308N	122.4205W	594	
Montague	J45A	Michigan,U.S.A.	43.4354N	86.3889W	209	From 2012-09-13
Montague Island	MTU	Alaska,U.S.A.	59.9878N	147.6520W	434	
Montague Island	MTG	Alaska,U.S.A.	59.9118N	147.4970W	31	From 1974-10-03 to 1985-07-31
Montalto (Apecchio) - PU	AT03	Italy	43.5359N	12.3860E	789	From 2010-04-18
Montana	MNNAM	Bulgaria	43.4111N	23.2262E	231	From 2012-11-20
Montana Rajada	CRAJ	Canary Islands,Spain	28.2649N	16.5969W	2474	From 2004-06-11
Montanita	PT21	Peru	6.8490S	79.1360W	1200	
Montappone	MN3	Italy	43.1400N	13.4705E	368	From 2004-04-20
Montappone	MNTP	Italy	43.1374N	13.4693E	325	From 2012-11-15
Montargil	PMTG	Portugal	39.0690N	8.2253W	190	From 2008-09-25
Montasola	MNS	Italy	42.3847N	12.6808E	600	From 1978-01-01
Montasola	MA1	Italy	42.3846N	12.6800E	600	From 1978-01-01
Montbardon	MBDF	Provence-Cote d'Azur,France	44.7269N	6.7714E	1520	From 1996-04-03
Mont Bernier	MBV	Vanuatu	17.6587S	168.3100E		
Montcerf-Lytton	E55A	Quebec,Canada	46.4538N	76.0572W	180	From 2013-07-28
Mont Chateau	MCWV	West Virginia,U.S.A.	39.6581N	79.8456W	280	From 1991-03-28
Mont Chauve - France	NICEF	Provence-Cote d'Azur,France	43.7709N	7.2546E	850	
Montclair	MONJ	New Jersey,U.S.A.	40.8083N	74.2308W	98	
Montclair St. U.	MSNJ	New Jersey,U.S.A.	40.8841N	74.1815W	132	From 2000-11-02
Montcuq	MONQ	Midi-Pyrenees,France	44.3676N	1.1953E	240	From 2011-09-22
Mont de Guillon, France	MDGS	Franche Comte,France	47.3146N	6.3929E	400	From 2004-10-20 to 2008-12-09
Mont-d'or	MLG	Guadeloupe,France	16.0613N	61.7103W	642	
Mont Dore	PLUM	New Caledonia	22.2730S	166.6400E	9	From 2007-01-01
Mont Dzumac	DZM	New Caledonia	22.0710S	166.4440E	905	From 1985-01-01
Monte Acero	MAB1	Italy	41.2589N	14.4958E	723	
Monteagle	MEA	New South Wales,Australia	34.2083S	148.3930E		From 1966-08-14 to 1972-08-09
Monte Alegre	MALB	Para,Brazil	1.8529S	54.2649W	27	From 2014-04-26
Monte Arcimis	EMAR	Sicily,Italy	37.6883N	15.0623E	1250	From 1994-10-01
Monte Arcimis	EARC	Sicily,Italy	37.6938N	15.0643E	1267	From 2002-10-01
Monte Argentario	MAO	Italy	42.4167N	11.1522E	326	From 1983-08-01
Monte Argentario	MAON	Italy	42.4283N	11.1309E	237	From 2003-07-25
Monte Baldo	BALI	Trentino,Italy	45.7813N	10.8623E	1685	From 1981-06-15 to 1990-12-31
Monte Baldo	BALD	Italy	45.6831N	10.8181E	1911	From 2007-11-08
Montebello Ionico	MMBI	Italy	38.0330N	15.7630E	950	From 1993-12-01
Montebello Ridge	MTB	California,U.S.A.	37.2907N	122.0910W	347	From 1975-02-07 to 1976-12-23
Montebelluna (TV)	MBEL	Italy	45.7993N	12.0686E	271	From 2010-06-09
Montecalvo in Foglia	MCIF	Italy	43.8116N	12.6317E	330	From 2013-12-04
Montecano	MONV	Venezuela	11.9550N	69.9710W	170	From 2002-04-17
Monte Cassino	MCI	Italy	41.4833N	13.8167E	527	
Monte Cedrone	ATMC	Italy	43.4468N	12.1928E	739	From 2009-01-29
Montecelio	MTCE	Italy	42.0228N	12.7422E	388	From 2002-12-05
Montecillos	BB01	Bolivia	18.0705S	65.2608W	2290	From 2011-11-10
Monte Cimone	MME	Italy	44.1936N	10.7000E	2160	
Monte Civitella	MCIV	Italy	42.7786N	11.6765E	790	From 2010-05-17
Monte Civitello	AT11	Italy	43.3818N	12.4199E	662	From 2011-06-08
Monte Cocuzzo	CZI	Italy	39.2183N	16.1336E	1700	From 1982-01-01
Monte Cornaccione	MC2	Italy	42.9127N	13.1905E	1916	From 2005-09-08
Montecristo	MTO3	El Salvador	14.3989N	89.3606W	1828	From 2011-07-28
Montecristo	MTO	El Salvador	14.3897N	89.4050W	1380	
Montecristo 2	MTO2	El Salvador	14.4000N	89.3617W	1870	
Monte Cristo Peak	MCU	Utah,U.S.A.	41.4617N	111.5070W	2664	From 1975-12-01
Montecucco	N002	Italy	43.3731N	12.3296E	538	From 2011-03-15
Monte Cuccoli	MOCL	Italy	44.0050N	11.1800E	639	From 2008-11-19
Monte D'Aria	MDAR	Italy	43.1927N	13.1427E	940	From 2008-10-26
Monte dei Santi	ESAN	Sicily,Italy	37.6945N	14.9677E	1690	From 1994-10-01
Monte do Carmo	MCRB	Tocantins,Brazil	10.6344S	47.8289W	261	From 2011-07-01
Monte do Carmo - TO	RET11	Tocantins,Brazil	10.6344S	47.8289W	261	From 2011-07-01
Montedoro	CMDO	Italy	37.4639N	13.8229E	569	From 2013-11-27
Monte Escuro	MESC	Azores,Portugal	37.7931N	25.4456W	790	From 1990-01-19
Monte Escuro	MTSA	Azores,Portugal	37.7810N	25.4384W	826	
Montefalcone Appennino	MF5	Italy	42.9888N	13.4605E	770	From 2000-07-19
Monte Fema	FEMA	Italy	42.9621N	13.0498E	1370	From 2009-09-23
Monte Figo	FIG	Portugal	37.1006N	7.8283W	310	From 1984-03-30 to 2009-05-30
Monte Figo	PFMF	Portugal	37.1005N	7.8235W	398	From 1996-01-01
Monte Finestrelle	MFNL	Sicily,Italy	37.7908N	12.9224E	677	From 2000-07-01
Monte Foce - Gubbio	ATFO	Italy	43.3666N	12.5715E	960	From 2009-08-10
Monte Fontane	EMFO	Sicily,Italy	37.7352N	15.0835E	1134	From 1994-10-01
Montegabbione	MGAB	Italy	42.9126N	12.1121E	547	From 2008-04-02
Monte Giove	MGIO	Italy	43.5606N	12.2036E	706	From 2011-10-01
Montego Bay	MBJ	Jamaica	18.4027N	77.8627W	576	
Montegrosso	MGRO	Italy	44.0424N	7.8081E	1689	From 2012-09-19
Monte Grosso	EMGR	Sicily,Italy	37.6703N	15.0073E	1350	From 1994-10-01
Montehunto	PMJU	Portugal	39.1750N	9.0488W	660	
Monte Intraleo	EMIL	Sicily,Italy	37.7213N	14.9165E	1560	From 1994-10-01
Monte La Croce	MTCR	Italy	44.0270N	10.9980E	1289	From 2012-04-02
Montelago di Sassoferrato	SSFR	Italy	43.4363N	12.7822E	750	From 2010-07-23

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Montelago di Sefro	MML1	Italy	43.1135N	12.9717E	943	From 2006-09-07
Monte Lauro	MEU	Sicily,Italy	37.1011N	14.9300E	985	
Monteleto	CC03	Italy	43.3780N	12.5163E	513	From 2011-03-15
Montella	MNT3	Italy	40.8370N	15.0067E	866	
Monte Llano	DR04	Dominican Republic	19.4672N	70.3600W	327	
Monte Llano	DR4	Dominican Republic	19.4672N	70.3600W		
Montello	M13A	Nevada,U.S.A.	41.3602N	114.1655W	1514	From 2006-05-04 to 2008-08-19
Montello	MTLO	Italy	45.8133N	12.0967E	350	From 1988-01-01
Monte Luro di Tavullia	TV6	Italy	43.9103N	12.7755E	289	From 2007-09-14
Monte Maddalena	GRDM	Italy	45.5451N	10.2795E	785	From 2007-05-01
Monte Magaggiaro	MMGO	Sicily,Italy	37.6619N	12.9767E	397	From 2000-07-01
Monte Martano	MOMA	Italy	42.8039N	12.5701E	1040	From 2011-10-01
Monte Massico	MSC	Italy	41.1914N	13.9714E	109	
Montemonaco	MMO1	Italy	42.8993N	13.3268E	957	From 2008-10-08
Montemor	MOE	Portugal	38.5228N	8.3506W	263	From 1983-02-19
Monte Murano	MMUR	Italy	43.4418N	12.9973E	800	From 2008-10-26
Monte Nero	EN6*	Sicily,Italy	37.8058N	15.0389E		From 1966-04-01 to 1966-05-01
Monte Nero	EMNR	Sicily,Italy	37.8162N	15.0260E	1745	From 2003-09-01
Monte Paganuccio	MPAG	Italy	43.6292N	12.7595E	930	From 2008-10-26
Monte Parmentelli	EMPL	Sicily,Italy	37.6790N	14.9698E	1434	From 1994-10-01
Monte-Pele	MPM	Martinique,France	14.8120N	61.1680W	1190	
Monte Pellegrino	MPG	Sicily,Italy	38.1617N	13.3600E	600	From 1994-03-01
Monte Pirata	MTPB	Puerto Rico	18.0900N	65.5500W	175	
Monte Pirata	MTP	Puerto Rico	18.0972N	65.5525W	120	From 1975-04-01
Monte Pizzetto	PZZT	Italy	44.1313N	10.8617E	1236	From 2005-08-09
Monte Prat	MPRI	Italy	46.2417N	12.9883E	762	From 1977-06-02
Monterenzio	MTRZ	Italy	44.3763N	11.4663E	594	From 2007-12-12
Monterey	HMOM	California,U.S.A.	36.6005N	121.9180W	192	From 1970-11-27
Monterey	MTR	California,U.S.A.	36.6005N	121.9180W	192	From 1970-11-27
Monterey Bay OB	MOBB	California,U.S.A.	36.6906N	122.1660W	-1036	
Monteria, Cordoba	MOTC	Colombia	8.7785N	75.6650W	109	From 2009-06-01
Monte Rocchetta	MRB1	Italy	41.1264N	14.9728E	625	
Monte Rojo	SDD10	Dominican Republic	19.2105N	69.2698W	385	
Monte Rosa	MR6*	Sicily,Italy	38.4792N	14.9578E		From 1966-04-01 to 1966-05-01
Monte Rota	SEST	Italy	46.7493N	12.2165E	1729	From 2003-11-12
Monte Ruvolo	EMRV	Sicily,Italy	37.7463N	14.8835E	1205	From 1994-10-01
Monte S. Angelo	MSAG	Italy	41.7120N	15.9096E	890	From 2006-05-25
Montesano	B017	Washington,U.S.A.	46.9960N	123.5575W	-185	
Montesano sulla Marcellana	MTSN	Italy	40.2663N	15.7515E	1056	From 2006-08-07
Monte Santa Maria Tiberina	SMTM	Italy	43.4360N	12.1627E	660	From 2011-10-01
Monte Sant'Angelo	FGMS	Italy	41.7079N	15.9534E	848	
Monte Sant'Angelo (FG)	MS1	Italy	41.7050N	15.9420E	830	From 1982-04-01
Montesarchio	MSB1	Italy	41.0897N	14.6594E	610	
Monte Scavo	ESVO	Sicily,Italy	37.7728N	14.9468E	1680	From 1994-10-01
Montes Claros	MCI6	Minas Gerais,Brazil	16.8070S	43.8933W	736	From 2012-01-01
Montes Claros	MC03	Minas Gerais,Brazil	16.6390S	43.8814W	798	From 2012-05-01
Montes Claros	MCI9	Minas Gerais,Brazil	16.6980S	43.8933W	670	From 2012-01-01
Montes Claros	MC05	Minas Gerais,Brazil	16.7551S	44.0105W	871	From 2012-05-01
Montes Claros	MC01	Minas Gerais,Brazil	16.7074S	43.9417W	740	From 2012-05-01
Montes Claros	MCI8	Minas Gerais,Brazil	16.6597S	43.9203W	696	From 2012-01-01
Montes Claros	MC02	Minas Gerais,Brazil	16.7610S	43.9123W	840	From 2012-05-01
Montes Claros	MC04	Minas Gerais,Brazil	16.6793S	43.9035W	685	From 2012-05-01
Montes Claros	MCI7	Minas Gerais,Brazil	16.7785S	43.8213W	714	From 2012-01-01
Montes Claros	MC06	Minas Gerais,Brazil	16.6535S	43.8886W	682	From 2012-05-01
Monte Sirino - Moliterno	SIRI	Italy	40.1821N	15.8675E	1063	From 2006-08-07
Monte Soro	MNO	Sicily,Italy	37.9331N	14.6947E	1830	
Monte Soro	ESRO	Sicily,Italy	37.9308N	14.6940E	1847	From 1994-10-01
Monte Spagnolo	EMSG	Sicily,Italy	37.8208N	14.9498E	1435	From 1994-10-01
Monte Urbino	MURB	Italy	43.2630N	12.5246E	845	From 2004-01-21
Monte Vetore	EMVT	Sicily,Italy	37.6910N	14.9835E	1855	From 1994-10-01 to 2005-07-13
Monte Vettore	MVT	Sicily,Italy	37.6892N	14.9861E	1660	
Monteview	I15A	Idaho,U.S.A.	43.9997N	112.4850W	1470	From 2007-08-14 to 2009-06-05
Monte Vulture - Melfi	VULT	Italy	40.9549N	15.6163E	1101	From 2005-08-12
Monteynard	MNY	Rhone-Alpes,France	44.9606N	5.6911E	422	From 1963-09-01
Montezuma	MTZ	Antofagasta,Chile	22.6333S	68.8333W	1850	From 1933-01-01 to 1999-08-25
Montezuma	S30A	Kansas,U.S.A.	37.6402N	100.4640W	853	From 2009-04-15 to 2011-03-16
Montezuma Peak	MZP	Nevada,U.S.A.	37.7007N	117.3834W	2395	From 1979-07-13
Montgomery	MGVT	Vermont,U.S.A.	44.9135N	72.6277W	262	From 1977-08-01 to 1981-08-25
Monticello	MCEL	Italy	40.3249N	15.8019E	960	From 2006-08-07
Monticello	Z53A	Georgia,U.S.A.	33.2801N	83.5713W	144	From 2012-04-09
Monticello	N46A	Indiana,U.S.A.	40.8949N	86.7352W	209	From 2011-10-13
Monticello Reservoir Site 1	MR01	South Carolina,U.S.A.	34.3318N	81.2957W	131	
Monticello Reservoir Site 10	MR10	South Carolina,U.S.A.	34.3363N	81.3375W	137	
Monticello Reservoir Site 2	MR02	South Carolina,U.S.A.	34.1929N	81.2302W	84	
Monticello Reservoir Site 3	MR03	South Carolina,U.S.A.	34.3514N	81.4569W	125	
Monticello Reservoir Site 4	MR04	South Carolina,U.S.A.	34.4287N	81.2166W	145	
Monticello Reservoir Site 5	MR05	South Carolina,U.S.A.	34.2675N	81.3342W	103	
Monticello Reservoir Site 6	MR06	South Carolina,U.S.A.	34.3517N	81.1962W	137	
Monticello Reservoir Site 7	MR07	South Carolina,U.S.A.	34.3720N	81.3250W	134	
Monticello Reservoir Site 8	MR08	South Carolina,U.S.A.	34.4088N	81.4092W	112	
Monticello Reservoir Site 9	MR09	South Carolina,U.S.A.	34.3008N	81.4030W	122	
Monti di Nese	MDI	Italy	45.7772N	9.7114E	1025	
Montolieu	MTLF	Languedoc-Rousillon,France	43.3411N	2.2175E	365	From 1996-04-03
Mont Orford	MOQ	Quebec,Canada	45.3120N	72.2541W	841	From 1991-05-03
Montottone	MNTT	Italy	43.0620N	13.5957E	902	From 2012-04-19
Montottone (Fermo)	T0401	Italy	43.0621N	13.5957E	343	
Montouss^	FMON	Midi-Pyrenees,France	43.0634N	0.4164E	647	From 2008-09-01
Montpelier	MPVT	Vermont,U.S.A.	44.2783N	72.6067W		From 1977-06-27 to 1981-08-25
Montreal	MNT	Quebec,Canada	45.5025N	73.6231W	112	From 1954-09-01 to 2010-05-21
Montreal, Quebec	MNTQ	Quebec,Canada	45.5003N	73.6228W	112	From 2010-07-26
Mont Rhoder	AMRH	Algeria	35.8572N	4.9388E	1530	
Montrose	MRC	Colorado,U.S.A.	38.4706N	107.8600W	1790	From 1970-01-01 to 1972-11-30
Montrose	154A	Georgia,U.S.A.	32.6131N	83.1066W	111	From 2012-03-20
Montrose	MS-	Pennsylvania,U.S.A.	41.7611N	75.7975W	457	From 1962-07-24 to 1962-07-27
Montrose	MS-PA	Pennsylvania,U.S.A.	41.7611N	75.7975W	457	From 1962-07-24 to 1962-07-27
Mont Sano	MSAL	Alabama,U.S.A.	34.8467N	86.6735W	260	
Monts Chateau	KCH	Kerguelen Islands,France	49.2440S	70.1450E		From 1974-02-01
Montserrat	MWI	Montserrat	16.7130N	62.2220W	46	From 1966-03-20 to 1999-08-25
Montserrat Volcano Observatory	MVOV	Montserrat	16.7465N	62.2283W	80	
Mont Terri (freefield, SED-Schacht NW400, Brunefa[illegible]	MTI03	Switzerland	47.3716N	7.1669E	719	From 2014-10-03
Mont Terri, (HE Schacht)	MTI02	Switzerland	47.3793N	7.1653E	220	From 2014-05-19
Mont Terri (ME Nische)	MTI01	Switzerland	47.3791N	7.1654E	245	From 2014-05-19
Mont Tournerait	TOUF	Provence-Cote d'Azur,France	44.0137N	7.2483E	1830	
Mont Tremblant	TRQ	Quebec,Canada	46.2222N	74.5556W	853	From 1981-03-16
Monturaqui	MTQ	Antofagasta,Chile	24.3400S	68.4400W	3000	
Mont Vial	MVIF	Provence-Cote d'Azur,France	43.8963N	7.1525E	1480	
Mont Vial	MUIF	Provence-Cote d'Azur,France	43.8963N	7.1525E	1480	
Montville, Ohio	GPDO	Ohio,U.S.A.	41.5831N	81.0717W	377	From 2011-08-10
Monument Peak, Mt. Laguna	MONP	California,U.S.A.	32.8927N	116.4225W	1920	From 1998-02-02 to 2007-10-24
Monument Peak TA Vault, Mt. Laguna	MONP2	California,U.S.A.	32.8920N	116.4223W	1875	From 2007-09-17
Moodus	MD1	Connecticut,U.S.A.	41.5529N	72.4667W	113	
Moodus	MD5	Connecticut,U.S.A.	41.4551N	72.4950W	101	
Moodus	MD2	Connecticut,U.S.A.	41.5314N	72.4337W	61	
Moodus	MD3	Connecticut,U.S.A.	41.5066N	72.4715W	152	
Moodus	MD4	Connecticut,U.S.A.	41.5023N	72.5121W	106	
Moody	335A	Texas,U.S.A.	31.2819N	97.4271W	217	From 2009-11-15 to 2011-10-04
Moondarra Dam	MDRM	Victoria,Australia	38.0990S	146.3790E	250	
Moonee Ponds	MPDM	Victoria,Australia	37.7689S	144.9064E	30	
Moon Mountain	MOON	Oregon,U.S.A.	44.0515N	121.6695W	224	From 2002-08-01
Moore Haven	059A	Florida,U.S.A.	26.9671N	81.1440W	11	From 2012-03-12
Moorlands	MOO	Tasmania,Australia	42.4417S	147.1900E	325	From 1960-01-01
Moosalm	MOTA	Austria	47.3448N	11.1037E	1575	From 1991-02-09
Moose Creek	YUK3	Yukon Territory,Canada	61.7755N	140.4595W	2100	From 2010-08-25
Moose Creek	MSE	Alaska,U.S.A.	61.8383N	148.9670W	1319	From 1984-09-11
Moose Creek	MCID	Idaho,U.S.A.	44.1903N	111.1827W	2149	
Moose Creek Bluff	MCB	Alaska,U.S.A.	64.7225N	147.2250W	200	From 1968-09-01 to 1971-09-30
Moose Pass	MPA	Alaska,U.S.A.	60.4892N	149.3610W	150	From 1973-08-05
Moose Ponds	MOOW	Wyoming,U.S.A.	43.7486N	110.7450W	2128	From 1986-01-01
Moosonee Ontario	MSNO	Ontario,Canada	51.2913N	80.6113W	4	From 2005-07-23

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Mopani	MOPA	Transvaal,South Africa	23.5173S	31.3977E	362	From 2004-03-26
Moragy	PKSM	Hungary	46.2119N	18.6413E	170	
M˝‡r˙¡gy, Hungary	MORH	Hungary	46.2149N	18.6435E	135	From 2012-03-02
Moraine State Park, Portersville	N54A	Pennsylvania,U.S.A.	40.9617N	79.9892W	408	From 2010-11-06
Moravsky	KRUC	Czech Republic	49.0619N	16.3952E	341	
Moravsky Beroun	MORC	Czech Republic	49.7768N	17.5425E	743	From 1995-04-01
Morawa	MRWA	Western Australia,Australia	29.2180S	115.9960E	300	From 1984-06-21
Morawa	MORW	Western Australia,Australia	29.0679S	116.0403E	296	From 1999-09-27
Morecambe B102	LBH	England,United Kingdom	54.0325N	2.9058W	-85	From 1990-01-01
Morelia	MOIG	Michoacan,Mexico	19.6779N	101.1889W	2000	
Morelia	MRX	Michoacan,Mexico	19.7045N	101.1917W	1560	From 1988-01-01
Moreno Valley High School, Angel Fire	U24A	New Mexico,U.S.A.	36.4093N	105.2784W	2573	From 2008-05-18 to 2010-04-11
More Nowhere	ST38	Xizang Zizhiqu,China	33.6539N	88.5046E	5069	From 1998-07-12 to 1998-09-02
Moresby, Haida Gwaii	MOBC2	British Columbia,Canada	53.1442N	131.9674W	675	From 2012-11-08
Moresby Island	MOBC	British Columbia,Canada	53.1448N	131.9687W	675	
Morganfield	MOKY	Kentucky,U.S.A.	37.6470N	87.9010W	204	From 1989-01-01
Morgan Territory	CMOM	California,U.S.A.	37.8110N	121.8037W	745	From 1969-04-17 to 2008-07-16
Morgan Territory	CMOB	California,U.S.A.	37.8104N	121.8027W	743	
Morgan Territory	LT17	California,U.S.A.	37.8110N	121.8037W	745	From 1969-04-17 to 2008-07-16
Morgan Territory	MTC	California,U.S.A.	37.8110N	121.8037W	745	From 1969-04-17 to 2008-07-16
Morgantown	MRG	West Virginia,U.S.A.	39.6331N	79.9544W	281	From 1950-10-01
Morge	MRGE	Italy	45.7698N	7.0610E	1660	From 2005-09-08
Mori	MOR	O shima,Japan	42.1033N	140.5717E	19	
Morici	MORI	Croatia	43.8660N	15.7073E	140	
Morigerati	MGR	Italy	40.1376N	15.5535E	288	
Morin Heights	MRHQ	Quebec,Canada	45.8870N	74.2127W	422	
Morin Heights	MRNQ	Quebec,Canada	45.8425N	74.2934W	59	
Morioka	MRK	Iwate,Japan	39.6967N	141.1667E	154	
Morioka 2	MRKJ	Iwate,Japan	39.5988N	141.3238E	380	From 1992-02-21
Moriya	MRJ	Ibaraki,Japan	35.9425N	140.0044E	1	
Mormanno	MMN	Italy	39.8901N	15.9905E		
Morne Balai	BAMF	Martinique,France	14.8157N	61.1483W	670	
Morne-Daniel	MDN	Dominica	15.3185N	61.3923W	99	From 1981-03-16
Morne Jacques	MJM	Martinique,France	14.7887N	61.0708W	400	
Morne La Croix	CXM	Martinique,France	14.8113N	61.1685W	1240	
Morne Lapointe	LPMF	Martinique,France	14.5745N	60.9663W	130	
Morne Lenard	PML	Martinique,France	14.7810N	61.1838W	370	
Morne Mazeau, Deshaies	GDHS	Guadeloupe,France	16.2727N	61.7651W	618	
Morne Pavillon	PAMF	Martinique,France	14.6138N	61.0363W	120	
Morne Pois Martinique	MPOM	Martinique,France	14.4447N	60.8588W	38	From 2012-10-01
Morne Soldat	MSGF	Guadeloupe,France	16.0987N	61.7220W	851	
Morne Tabac	SLTA	St Lucia	13.8704N	61.0399W	550	
Morning Glory Mine	PV19	Colorado,U.S.A.	38.3098N	108.9831W	2041	
Morogoro	MGOR	Tanzania,United Republic of Tanzania	6.8278S	37.6697E	505	
Morong	MNP	Luzon,Philippines	14.6798N	120.2780E	12	
Morongo Valley	MRVC	California,U.S.A.	34.1558N	116.5020W	1239	From 1978-03-01
Morovis	MOV	Puerto Rico	18.2987N	66.3666W	485	From 1977-02-15 to 1999-08-25
Morphett Vale	MPTV	South Australia,Australia	35.1301S	138.5374E	100	From 2010-05-27
Morrinhos-CE	NBMO	Ceara,Brazil	3.3107S	40.0414W	95	From 2011-05-16
Morristown	H60A	Vermont,U.S.A.	44.5606N	72.6986W	459	From 2013-09-21
Morrocoy	MORO	Venezuela	10.8722N	68.3161W	920	From 1984-01-01
Morro de la Arena	MACI	Canary Islands,Spain	28.2502N	16.5082W	1674	
Morro Solar	PT01	Peru	12.0150S	77.0317W	250	
Morse	542A	Louisiana,U.S.A.	30.1247N	92.5513W	-1	From 2011-02-15 to 2012-12-07
Morshin	MORS	Ukraine	49.1330N	23.8940E	262	
Morshin	MRSS	Ukraine	49.1330N	23.8940E	262	
Morshyn	MORU	Ukraine	49.1240N	23.8760E	260	From 1978-01-01
Morsiglia	MORSI	Corse,France	42.9530N	9.3630E	100	From 2011-05-09
Morton Thiokol	MTUT	Utah,U.S.A.	41.7092N	112.4547W	1373	
Moschato	MOS1	Greece	37.9531N	23.6819E	24	From 2012-09-15
Moscow	MOS	Moskovskaya Oblast',Russia	55.7383N	37.6250E	121	
Moseley Ranch, Sierra Blanca	324A	Texas,U.S.A.	31.4425N	105.4828W	1441	From 2008-02-23 to 2010-01-14
Mose, Pekin	C30A	North Dakota,U.S.A.	47.7026N	98.4783W	480	From 2009-08-06 to 2011-07-14
Moshi	MOSH	Tanzania,United Republic of Tanzania	3.3053S	37.3292E	992	
Mosicchio (Amatrice)	RM25	Italy	42.6223N	13.2815E	976	From 2009-06-18 to 2009-07-06
Moslavina	MOSL	Croatia	45.6135N	16.7544E	480	
Mosqueruela	EMOS	Spain	40.3639N	0.4721W	1694	
Moss Hill, Ennis	G16A	Montana,U.S.A.	45.2285N	111.8046W	1769	From 2007-09-24 to 2009-06-09
Mostar	MST	Bosnia and Herzegovina	43.3500N	17.8167E	70	
Mosteiros	SET4	Azores,Portugal	37.8747N	25.7988W	402	From 1998-12-01
Mosul	MSL	Iraq	36.4000N	43.1100E	242	From 1981-07-01
Motapaya	MOTP	Gujarat,India	23.8558N	69.7746E	-20	From 2012-01-01
Mo Tay, Goldonna	241A	Louisiana,U.S.A.	32.0227N	92.9188W	59	From 2011-02-10 to 2012-12-01
Motegi	MGJ	Tochigi,Japan	36.5535N	140.2167E	140	
Motopi	MTP1	Botswana	20.2300S	24.0990E	936	From 2001-01-01 to 2100-12-31
Motril	EXMO	Spain	36.7270N	3.5360W	55	
Motta S. Anastasia	EMSA	Sicily,Italy	37.4980N	14.9450E	138	From 2014-02-17
Motta San Giovanni	MTTG	Italy	38.0019N	15.6939E	490	
Motutapu	MTAZ	North Island,New Zealand	36.7865S	174.9056E	-4	From 1995-02-21 to 2012-10-09
Motutapu North Island, New Zealand	MBAZ	North Island,New Zealand	36.7688S	174.8979E	-36	From 2012-10-08
Motz Farm, Whitney	K26A	Nebraska,U.S.A.	42.7016N	103.1783W	1122	From 2008-11-15 to 2010-10-03
Moucha	MCAD	Djibouti	11.7303N	43.2120E	4	From 1994-01-01
Mouk	IMOK	Iran	29.0461N	52.7146E	2788	From 2002-10-01
Mould Bay	NP-NT	Northwest Territories,Canada	76.2522N	119.3717W	59	
Mould Bay	MBC	Northwest Territories,Canada	76.2417N	119.3600W	15	From 1961-10-18 to 2004-11-10
Moule a Chique	MCLT	St Lucia	13.7096N	60.9412W	220	
Moulis	MLS	Midi-Pyrenees,France	42.9578N	1.0947E	450	
Moumakai	MKAZ	North Island,New Zealand	37.1041S	175.1612E	77	From 1995-01-10
Mounoet Dainard	MNB	British Columbia,Canada	52.1987N	118.3830W	2271	
Mount Abel	ABL	California,U.S.A.	34.8508N	119.2210W	1981	From 1976-06-01
Mount Adagdak	ADAG	Alaska,U.S.A.	51.9802N	176.6017W	286	
Mount Adams	AMW	North Island,New Zealand	41.3078S	175.7610E	400	From 1991-03-22 to 2000-10-10
Mount Adams--Stagman Ridge	ASR	Washington,U.S.A.	46.1507N	121.5930W	1280	
Mountain	G42A	Wisconsin,U.S.A.	45.2418N	88.4277W	315	From 2011-09-30 to 2013-06-04
Mountain Creek	FALL	British Columbia,Canada	53.2780N	132.4601W	391	
Mountain Grove	MGMO	Missouri,U.S.A.	37.1540N	92.2687W	453	
Mountain Home	MO-	Idaho,U.S.A.	43.0719N	116.2656W	792	From 1966-11-17 to 1967-06-26
Mountain Home	MO-ID	Idaho,U.S.A.	43.0719N	116.2656W	792	From 1966-11-17 to 1967-06-26
Mountain Pass	MTPC	Nevada,U.S.A.	35.4848N	115.5533W	1582	
Mountain Pine	MP-AR	Arkansas,U.S.A.	34.6017N	93.1458W	183	From 1961-11-20 to 1963-06-03
Mountain Pine	MP-	Arkansas,U.S.A.	34.6017N	93.1458W	183	From 1961-11-20 to 1963-06-03
Mountainview	V41A	Arkansas,U.S.A.	35.7851N	92.1554W	413	From 2011-05-12 to 2013-02-17
Mountain View	MVH	Hawaii,U.S.A.	19.5042N	155.0620W	409	
Mountain View	T41A	Missouri,U.S.A.	37.0436N	91.7636W	366	From 2011-05-08 to 2013-03-18
Mount Airy	MANY	New York,U.S.A.	41.2220N	73.8686W	133	
Mount Amassa	ASI	Israel	31.3300N	35.0950E	850	From 1983-08-01 to 1984-10-31
Mount Arapiles	ARPS	Victoria,Australia	36.7699S	141.8383E	213	From 2000-12-01
Mount Atzmon	ATZ	Israel	32.8216N	35.2697E	510	From 1986-01-01
Mount Bagana	BGA	Bougainville,Papua New Guinea	6.1500S	155.1800E	1000	From 1984-01-01
Mount Baker	MU-WA	Washington,U.S.A.	48.9167N	121.9103W	732	From 1962-09-26 to 1962-10-05
Mount Baker	MBW	Washington,U.S.A.	48.7840N	121.9000W	1676	From 1972-11-08
Mount Baldy Ranger Station	BFSC	California,U.S.A.	34.2388N	117.6585W	1312	From 2001-07-10
Mount Belmont	BEMT	Montana,U.S.A.	46.7483N	112.3300W	2228	
Mount Berech	MBH	Israel	29.7925N	34.9153E	842	From 1986-06-18 to 2007-06-18
Mount Bingar	MBA	New South Wales,Australia	34.1250S	146.2370E		From 1961-01-01 to 1962-12-31
Mount Brisbane	WMBQ	Queensland,Australia	27.1155S	152.5500E	160	From 1977-03-18
Mount Bullion	MBUM	California,U.S.A.	37.5597N	120.0756W	1248	
Mount Cameroon	MOC	Cameroon	4.2869N	9.2169E	2475	From 1985-11-23 to 1990-12-31
Mount Cameroon	MOKC	Cameroon	4.2583N	9.2500E	2040	
Mount Carmel	CRI	Israel	32.6820N	35.0450E	450	From 1983-07-01 to 1999-08-25
Mount Cartier	CARB	British Columbia,Canada	50.9000N	118.0530W	2294	
Mount Castle	MCAS	Papua New Guinea	6.3719S	143.4833E	1950	From 1996-08-31
Mount Claude	CLAW	Tasmania,Australia	41.4920S	146.1830E	900	
Mount Constitution	MCW	Washington,U.S.A.	48.6797N	122.8320W	693	From 1972-11-08
Mount Cooper	MCPQ	Queensland,Australia	20.5500S	146.8065E	300	From 1984-02-23
Mount Cotopaxi	CPXM	New South Wales,Australia	34.4765S	150.6248E	622	
Mount Darwin	MTD	Zimbabwe	16.7800S	31.5833E	967	From 1971-06-01
Mount Davis	MDA	California,U.S.A.	33.9130N	116.9990W	845	
Mount Denham	MTDJ	Jamaica	18.2261N	77.5345W	925	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Mount Diablo	MDC	California,U.S.A.	37.8817N	121.9140W	1173	From 1967-05-27 to 1974-06-01
Mount Ellis	MEMT	Montana,U.S.A.	45.6040N	110.9697W	1951	From 1987-10-15
Mount Erie	ERW	Washington,U.S.A.	48.4540N	122.6251W	389	
Mount Fremont	FMW	Washington,U.S.A.	46.9317N	121.6720W	1890	From 1972-09-04
Mount Gambier	MGBR	South Australia,Australia	37.7283S	140.5710E	190	
Mount Gibbes	MGNC	North Carolina,U.S.A.	35.7363N	82.2855W	1973	
Mount Gilboa	MGI	Israel	32.4391N	35.4117E	300	
Mount Grey	MGB	British Columbia,Canada	49.0000N	124.6920W	1300	From 1983-12-01
Mount Hagen	VMHM	Oregon,U.S.A.	44.1377N	122.4070W	902	
Mount Hagen	HAGN	Papua New Guinea	5.8304S	144.2978E	1650	From 2013-03-22
Mount Hamilton	MHC	California,U.S.A.	37.3416N	121.6426W	1250	From 1887-01-01
Mount Hamilton Road	MHR	California,U.S.A.	37.3595N	121.7560W	518	From 1969-03-04
Mount Harif	HRFI	Israel	30.0364N	35.0370E	438	From 2002-05-20
Mount Harkness	LHKM	California,U.S.A.	40.4353N	121.2780W	2060	
Mount Harlan	BMHM	California,U.S.A.	36.6863N	121.4130W	811	From 1975-01-29
Mount Hebo	HEBO	Oregon,U.S.A.	45.2137N	123.7542W	875	
Mount Hebo	VHOM	Oregon,U.S.A.	45.2192N	123.7250W	951	
Mount Hermon	HRI	Israel	33.2660N	35.7340E	1015	From 1983-07-01
Mount Hood Meadows	HOOD	Oregon,U.S.A.	45.3216N	121.6522W	1520	
Mount Hope	RD03	Ontario,Canada	43.1832N	79.9440W	198	
Mount Hope	MHPQ	Queensland,Australia	21.3960S	146.8020E	200	From 1984-04-10
Mount Hope	HOPM	Victoria,Australia	35.9964S	144.2046E	140	
Mount Horn	MHZ	South Island,New Zealand	45.0606S	169.2796E	1127	From 1984-06-06 to 1996-04-29
Mount Humbug	HBMT	Montana,U.S.A.	45.7930N	112.6080W	2481	From 1990-08-08
Mount Ida	MZ-AR	Arkansas,U.S.A.	34.5586N	93.6578W	213	From 1962-12-20 to 1963-01-31
Mount Ida	MIAR	Arkansas,U.S.A.	34.5454N	93.5765W	207	From 1992-09-23
Mount Ida	MZ-	Arkansas,U.S.A.	34.5586N	93.6578W	213	From 1962-12-20 to 1963-01-31
Mount Irish	MTI	Nevada,U.S.A.	37.6758N	115.2759W	1536	From 1979-06-08 to 2002-10-10
Mount Isa	QIS	Queensland,Australia	20.5577S	139.6052E	450	From 1987-06-15
Mount Isa	ISQ	Queensland,Australia	20.7150S	139.5530E	500	From 1979-08-21 to 1987-06-14
Mount John	MJZ	South Island,New Zealand	43.9855S	170.4663E	1000	From 1965-05-29 to 1980-06-26
Mount John Pukaki	MJP	South Island,New Zealand	43.9895S	170.4596E	960	From 1975-06-18 to 1983-11-21
Mount Johnson	BJOM	California,U.S.A.	36.6283N	121.3130W		From 1974-01-31
Mount Kelaz	KELA	Alaska,U.S.A.	58.4400N	155.7407W	975	
Mount Kenneth	MTKN	Western Australia,Australia	31.9333S	115.7736E	61	From 2009-04-01
Mount Kliuchef	KOKL	Alaska,U.S.A.	52.3232N	174.2002W	758	
Mount Konoctai	GMKM	California,U.S.A.	38.9695N	122.7870W	906	From 1975-04-18
Mount Lassen	LAS	California,U.S.A.	40.4752N	121.5080W	2650	From 1973-10-01 to 1974-07-16
Mount Lazard	LZB	British Columbia,Canada	48.6117N	123.8236W	844	
Mount Lewis	CMLM	California,U.S.A.	37.4773N	121.6510W	1076	
Mount Logan	MTLAZ	Arizona,U.S.A.	36.3530N	113.1990W	2418	
Mount Lospe	PMLM	California,U.S.A.	34.8947N	120.6093W	468	
Mount Malkishua	MMLI	Israel	32.4379N	35.4216E	511	
Mount Malkishua	MML	Israel	32.4351N	35.4133E	510	From 1986-05-01 to 2001-07-18
Mount Mary	MMP	South Island,New Zealand	44.1408S	170.2784E	950	From 1975-06-18 to 1983-11-21
Mount Meron	MNRI	Israel	33.0100N	35.3870E	900	
Mount Meron	MMR	Israel	32.9900N	35.4200E	1108	From 1991-05-01
Mount Meron	MRNI	Israel	33.0120N	35.3920E	900	
Mount Meron array	MMB1	Israel	33.0151N	35.4108E	733	From 2004-01-01
Mount Meron array	MMC2	Israel	33.0268N	35.4116E	701	From 2004-01-01
Mount Meron array	MMA1	Israel	33.0181N	35.4062E	776	From 2004-01-01
Mount Meron array	MMC6	Israel	33.0120N	35.3915E	893	From 2004-01-01
Mount Meron array	MMB3	Israel	33.0195N	35.3971E	812	From 2004-01-01
Mount Meron array	MMB4	Israel	33.0208N	35.4020E	806	From 2004-01-01
Mount Meron array	MMB2	Israel	33.0097N	35.3953E	878	From 2004-01-01
Mount Meron array	MMC4	Israel	33.0072N	35.4186E	750	From 2004-01-01
Mount Meron array	MMA4	Israel	33.0146N	35.3975E	851	From 2004-01-01
Mount Meron array	MMC5	Israel	33.0087N	35.4127E	766	From 2004-01-01
Mount Meron array	MMA3	Israel	33.0121N	35.4006E	792	From 2004-01-01
Mount Meron array	MMC1	Israel	33.0305N	35.4037E	827	From 2004-01-01
Mount Meron array	MMC7	Israel	33.0221N	35.3926E	816	From 2004-01-01
Mount Meron array	MMC3	Israel	33.0183N	35.4138E	713	From 2004-01-01
Mount Meron array	MMA2	Israel	33.0125N	35.4057E	776	From 2004-01-01
Mount Meron array	MMA0	Israel	33.0152N	35.4031E	810	From 2004-01-01
Mount Meron array	MMA0B	Israel	33.0153N	35.4031E	809	From 2004-01-01
Mount Meron Array Beam Reference Point	MMAI	Israel	33.0153N	35.4031E	809	From 2004-01-01
Mount Michael	MMCZ	South Island,New Zealand	45.0021S	169.1314E	1163	From 1989-06-29 to 1996-04-27
Mount Mitchell	MTMW	Washington,U.S.A.	46.0255N	122.2120W	1121	
Mount Mocho	CMMM	California,U.S.A.	37.4557N	121.4940W	1117	
Mount Montar	MOI	Israel	31.7350N	35.3491E	140	
Mount Morgan	MORG	Queensland,Australia	23.7626S	150.3901E	170	
Mount Moriah Church	MMCS	South Carolina,U.S.A.	34.7798N	82.9152W	280	
Mount Morrison	MTW	North Island,New Zealand	41.1579S	175.5016E	311	From 1979-06-29
Mount Natib	NBP	Luzon,Philippines	14.7420N	120.4160E	585	
Mount Nelson	NELS	Tasmania,Australia	42.9271S	147.3326E	348	
Mount Ogden	MOUT	Utah,U.S.A.	41.1849N	111.8790W	2743	From 1980-09-01
Mount Olympus	OLYC	California,U.S.A.	33.4313N	117.1180W	482	
Mount Oso	COSM	California,U.S.A.	37.5085N	121.3740W	1020	
Mount Ozzard	OZB	British Columbia,Canada	48.9603N	125.4930W	671	
Mount Pasian	MPP	Mindanao,Philippines	7.8972N	126.0180E	1130	From 1975-09-01 to 1980-01-17
Mount Pierce	KMPM	California,U.S.A.	40.4173N	124.1200W	957	
Mount Pierson	MTPU	Utah,U.S.A.	38.0415N	112.1843W	3112	From 2009-10-24
Mount Pinos, Frazier Park	MPI	California,U.S.A.	34.8126N	119.1453W	2673	From 2000-11-01
Mount Rainier--Camp Muir	RCM	Washington,U.S.A.	46.8358N	121.7318W	3085	
Mount Rainier--Camp Schurman	RCS	Washington,U.S.A.	46.8710N	121.7310W	2877	From 1989-06-27
Mount Rainier--Emerald Ridge	REMR	Washington,U.S.A.	46.8192N	121.8409W	1756	From 1989-07-12
Mount Rainier--Summit	RSU	Washington,U.S.A.	46.8533N	121.7631W	4440	
Mount Rainier--Voight Creek	RVC	Washington,U.S.A.	46.9429N	121.9710W	1000	
Mount Ramon	RMNI	Israel	30.5964N	34.7620E	853	
Mount Ramon	RMN	Israel	30.4970N	34.6270E	1000	
Mount Read	MTRD	Tasmania,Australia	41.8464S	145.5436E	1080	
Mount Saint Catherine	GRW	Grenada	12.1600N	61.6610W	762	From 1978-04-09
Mount Saint Helena	SHC	California,U.S.A.	38.6703N	122.6340W	1200	From 1973-12-07 to 1977-01-20
Mount Saint Helena	NMHM	California,U.S.A.	38.6695N	122.6340W	1331	From 1977-01-20
Mount Saint Helena South	NHSM	California,U.S.A.	38.6565N	122.6144W	1213	
Mount Saint Helens	SHW	Washington,U.S.A.	46.1925N	122.2370W	1423	From 1972-10-25
Mount Saint Helens Crater	VALT	Washington,U.S.A.	46.2142N	122.1893W	1681	From 2006-09-23
Mount San Antonio	MSA	New Mexico,U.S.A.	36.8592N	106.0180W	3322	From 1975-10-09
Mount Santo Tomas	MSP	Luzon,Philippines	16.3333N	120.5667E	2000	From 1975-10-01
Mount Sar Shalom	MSM	Israel	33.0610N	35.2790E	500	From 1983-03-19 to 1983-07-14
Mount Sheppard	MTSH	North Carolina,U.S.A.	35.7556N	79.9528W	361	
Mount Sheridan	YMS	Wyoming,U.S.A.	44.2640N	110.5278W	3106	
Mount Signal	SGL	California,U.S.A.	32.6492N	115.7250W	110	From 1973-04-16
Mount Sodom	SDOM	Israel	31.0800N	35.3900E	-200	
Mount Spurr	SPU	Alaska,U.S.A.	61.1817N	152.0540W	800	From 1971-08-10
Mount St. Helen	MSH31	Washington,U.S.A.	46.3085N	119.3380W	117	From 2005-08-14
Mount St. Helen	MSH11	Washington,U.S.A.	46.2078N	119.0377W	97	From 2004-10-28
Mount St. Helen	MSH21	Washington,U.S.A.	46.3079N	122.2660W	1040	From 2004-10-30
Mount Surprise	MTSU	Queensland,Australia	18.1342S	144.3168E	460	From 2002-11-06
Mount Tamalpais	NTPM	California,U.S.A.	37.9200N	122.5630W	274	
Mount Tarawera	TARZ	North Island,New Zealand	38.2356S	176.5059E	1012	From 2007-11-22
Mount Tassie	MTV	Victoria,Australia	38.4017S	146.5660E	740	
Mount Tassie Tower	MTLM	Victoria,Australia	38.4015S	146.5642E	755	
Mount Taylor	MTL	New Mexico,U.S.A.	35.2519N	107.5960W	3335	From 1975-10-15
Mount Thompson	THOB	British Columbia,Canada	52.6900N	119.1220W	2499	From 1972-10-15 to 1999-08-25
Mount Tsukuba	MTJ	Ibaraki,Japan	36.2108N	140.1100E	286	From 1921-01-01
Mount Umunhum	JUMM	California,U.S.A.	37.1608N	121.8980W	1048	
Mount Union College	MUCO	Ohio,U.S.A.	40.9050N	81.1090W	365	
Mount Varzin	EVZ	New Britain,Papua New Guinea	4.3960S	152.1550E	597	
Mount Washington	MWAB	British Columbia,Canada	49.7411N	125.3032W	1176	From 2009-07-31
Mount Wilson	MWC	California,U.S.A.	34.2238N	118.0580W	1730	From 1928-04-23
Mount Yahel	MYI	Israel	31.1990N	35.2160E	500	
Mount Yoash	YASH	Israel	29.5850N	34.8810E	718	
Mount Zion Church	ZIN	South Carolina,U.S.A.	33.1072N	80.1628W	30	From 1977-10-23
Moura State High School	AUMOU	Queensland,Australia	24.5800S	149.9800E	153	From 2013-08-11
Moutere Station	MSCZ	South Island,New Zealand	45.0914S	169.4118E	701	From 1986-12-09 to 1996-05-01
Mouthoumet	MTHF	Languedoc-Rousillon,France	42.9386N	2.5339E	620	From 1989-01-01
Moxa	MOX	Thuringen,Germany	50.6447N	11.6156E	455	
Moxie City	MXC	Washington,U.S.A.	46.5772N	120.2930W	540	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Moye	OG06	Rhone-Alpes,France	45.8810N	5.8902E	650	From 1992-04-14
Moyogalpa	MOYN	Nicaragua	11.5357N	85.6958W	50	
Moyori	MYR	Tokachi,Japan	42.2918N	143.2837E	80	From 1971-11-03
Moyuta	MYT	Guatemala	14.0472N	90.0642W	1325	From 1983-10-01
Mozjanca	MOZS	Slovenia	46.2941N	14.4433E	660	From 2005-07-07
Mpanda	PNDA	Tanzania,United Republic of Tanzania	6.3520S	31.0613E	1065	
Mrakovica	MRAK	Bosnia and Herzegovina	45.0130N	16.9000E	850	
Mrkonjic Grad	MGRS	Bosnia and Herzegovina	44.4170N	17.0840E	560	From 2012-08-01
Mtatsminda	MTA	Georgia,Georgia	41.6939N	44.7925E	515	From 2004-01-01
Mt Baker	MU-	Washington,U.S.A.	48.9167N	121.9103W	732	From 1962-09-26 to 1962-10-05
Mt Berech	MBRI	Israel	29.7942N	34.9140E	850	From 2007-06-19
Mt. Cagua	SGCP	Luzon,Philippines	18.2420N	122.0460E	50	
Mt Clear College-Earth Ed	AUMTC	Victoria,Australia	37.6100S	143.8800E	48	From 2013-05-15
Mt. Diablo Meridian	O02D	California,U.S.A.	40.1766N	122.7884W	965	From 2010-08-01
Mte Cammarata	MCT	Sicily,Italy	37.6311N	13.6336E	1565	
Mte del Estrado	MEP	Puerto Rico	18.1458N	66.9811W	880	From 1990-07-01 to 1999-08-25
M.te Sabotino	SABO	Italy	45.9800N	13.6000E	600	
Mte Sant'Angelo	FG3	Italy	41.7074N	15.9494E	858	
Mte Valcellina	RE1	Italy	46.1600N	12.6533E	548	From 1977-08-03 to 1995-11-10
Mte Valcellina	RCL	Italy	46.1600N	12.6533E	548	From 1977-08-03 to 1995-11-10
Mt Hamilton Road	NHMM	California,U.S.A.	38.1547N	121.8003W		From 1969-03-04
Mt Hamilton Road	CMHM	California,U.S.A.	37.3595N	121.7560W	518	From 1969-03-04
Mt Hamilton Road	CB10	California,U.S.A.	37.3595N	121.7560W	518	From 1969-03-04
Mt Longido	LGDO	Tanzania,United Republic of Tanzania	2.7250S	36.6983E	1375	
Mt. Morris Dam	MMNY	New York,U.S.A.	42.7319N	77.9066W	241	From 2008-05-01
Mt. Pleasant	Z38A	Texas,U.S.A.	33.2599N	94.9851W	116	From 2010-04-24 to 2012-01-23
Mt Rat	MRAT	South Australia,Australia	34.6300S	137.6254E	120	From 2007-02-01
Mts of Mourne	GMM	Northern Ireland,United Kingdom	54.2390N	5.9510W	140	From 1989-01-01
Mt St Catherine	MCG	Grenada	12.1600N	61.6610W	762	From 1977-07-01 to 1978-07-01
Mt Stromlo	AUMTS	Australian Capital Territory,Australia	35.3200S	149.0000E	667	From 2011-05-04
Mt Trumbull	U14A	Arizona,U.S.A.	36.4182N	113.1805W	1916	From 2007-02-18 to 2008-11-13
Mt Valcellina	MRVI	Italy	46.1600N	12.6533E		From 1977-08-03 to 1999-08-25
Muan gun	KSMAN	Republic of Korea	35.0939N	126.2850E	57	From 2000-01-20
Muara Teweh, Kalimantan	MTKI	Kalimantan,Indonesia	0.9418S	114.8959E	114	From 2008-12-01
Mucha	TWA	Taiwan region	24.9803N	121.5837E	260	From 1972-08-29
Mudanjiang	MDJ	Jilin,China	44.6164N	129.5920E	250	
Mudanya-Bursa	MDNY	Turkey	40.3690N	28.8840E	110	From 2008-07-09
Mudaysisat	MDSJ	Jordan	31.6320N	36.2520E	970	From 1985-12-20
Mud Lake	MUDI	Idaho,U.S.A.	43.6189N	111.0770W	2124	From 1986-01-01 to 2005-03-26
Muduarah	MUDJ	Jordan	29.4220N	35.8200E	900	
Muduarah	MDRJ	Jordan	29.4420N	35.8200E	900	From 1990-04-26
Mudurnu	MDUB	Turkey	40.4711N	31.1976E	1108	From 2008-05-22
Mudurnu	MDU	Turkey	40.4653N	31.2145E	740	From 1995-12-21 to 2008-05-22
Mudurnu	MUT	Turkey	40.4647N	31.2119E	960	From 1979-01-01 to 1999-08-25
Mud Volcano	MVW	Wyoming,U.S.A.	44.6225N	110.4420W	2415	From 1972-10-01
Muff Farm, Clarinda	N36A	Iowa,U.S.A.	40.8156N	94.9604W	349	From 2010-11-19 to 2012-08-31
Muggio	MUGIO	Switzerland	45.9219N	9.0417E	830	From 2002-01-24
Mu¨la/Merkez-¨kizce	MULA	Turkey	37.2561N	28.3208E	973	From 2014-12-04
Muharraq	BMU	Bahrain	26.2350N	50.6600E		
Muhayil	MOHS	Saudi Arabia	18.5761N	42.0190E	520	
Muhor-Tarhata, Altay Republic, Russia	SLNR	Altayskiy Kray,Russia	49.7770N	88.4670E	2057	From 2003-10-18
Muirshiel	PMSU	Scotland,United Kingdom	55.8459N	4.7452W	351	From 1990-01-01 to 1991-01-01
Mukachevo	MUKU	Ukraine	48.4536N	22.6874E	125	From 1996-08-14
Mukerian	MUK	Punjab,India	31.9500N	75.6167E		
Mukjeong-gil	SMKB	Republic of Korea	35.6891N	126.5561E	52	From 2011-12-07
Mula	EXMU	Spain	38.0390N	1.4940W	340	
Muldenberg	MULD	Sachsen,Germany	50.4117N	12.4040E	678	From 2007-12-20
Muleba	MLBA	Tanzania,United Republic of Tanzania	1.8377S	31.6697E	1335	
Muleshoe	MSTX	Texas,U.S.A.	33.9696N	102.7724W	1167	From 2008-04-23
Mulgathing	MULG	South Australia,Australia	30.2818S	134.0585E	216	From 2013-07-17
Mulgrave and Derry, QC.	MGDQ	Quebec,Canada	45.7189N	75.4854W	141	From 2011-11-22
Mulino	G04A	Oregon,U.S.A.	45.2059N	122.4784W	272	From 2005-11-09 to 2008-11-12
Mullan	MUL	Idaho,U.S.A.	47.4617N	115.7820W	1300	From 1968-01-01
Mullinville	S31A	Kansas,U.S.A.	37.6193N	99.4845W	700	From 2009-04-14 to 2011-03-10
Mull of Kintyre	GMK	Scotland,United Kingdom	55.3459N	5.5936W	160	From 1989-01-01
Mullumbimby High School	AUMUL	New South Wales,Australia	28.5600S	153.0400E	60	From 2013-06-24
Multi FST (Faido)	MFSFA	Switzerland	46.5004N	8.8080E	427	From 2005-12-15
Multi FST (Faido)	MFSFB	Switzerland	46.5055N	8.8045E	441	From 2005-12-15
Mulungwishi	MLN	Democratic Republic of the Congo	10.7833S	26.6250E	1200	From 1970-11-30 to 1976-12-31
Mummy Mountain	MMA	Arizona,U.S.A.	33.5544N	111.9580W	426	From 1971-05-17 to 1973-01-18
Munchique	MUNC	Colombia	2.4693N	76.9569W	3007	From 1994-01-01
Muncho Lake	MUB	British Columbia,Canada	58.9550N	125.7570W	1100	
Mundaring	MUN	Western Australia,Australia	31.9783S	116.2080E	253	From 1959-07-31 to 2008-04-21
Mungyeong	KSMGY	Republic of Korea	36.6552N	128.0608E	209	From 2006-12-30
Mungyeong	KSMUG	Republic of Korea	36.6213N	128.1506E	170	From 2000-02-23 to 2006-12-30
Munich	MNH	Bayern,Germany	48.1500N	11.6000E	528	From 1905-01-01 to 1943-12-31
Munster	MWG	Nordrhein-Westfalen,Germany	51.9627N	7.6241E	58	
Muntele Rosu	MLR	Romania	45.4909N	25.9450E	1360	
Muong La station	MLAV	Vietnam	22.0392N	103.1550E	205	From 2010-01-01
Muotathal	MUO	Switzerland	46.9676N	8.6371E	1920	From 1981-11-24
Murafatepe	MRFT	Turkey	40.5036N	33.4547E	1500	From 1992-01-01 to 1992-07-31
Muraz-Klaeranlage	SMUK	Switzerland	46.2863N	6.9406E	388	From 2006-04-03
Muraz-Reservoire	SMUR	Switzerland	46.2772N	6.9205E	480	From 2006-04-03
Murefte	MFT	Turkey	40.7867N	27.2812E	924	From 1978-10-01
Murfatlar	MFTR	Romania	44.1779N	28.4224E	98	From 2012-11-12
Murgab	MUR	Tajikistan	38.3667N	73.9333E	3860	
Murgab	MUP	Tajikistan	38.1200N	73.9500E	3800	From 1947-01-01 to 1993-01-01
Muriti-CE	NBMA	Ceara,Brazil	7.3654S	38.7641W	437	
Muro Lucano	MRLC	Italy	40.7564N	15.4889E	605	
Muro Lucano (Serra Campolungo)	SCL3	Italy	40.6951N	15.5114E	744	
Muro Lucano (Varco Staccarino)	VDS3	Italy	40.7408N	15.4270E	1154	
Muroran	MRR	Iburi,Japan	42.3100N	140.9817E	43	From 1923-06-01
Muroran 2	MRRJ	Iburi,Japan	42.4250N	141.0720E	-15	
Murotomisaki	MRT	Kochi,Japan	33.2483N	134.1800E	186	
Muroto Misaki	MRMJ	Kochi,Japan	33.2444N	134.1805E	10	From 1995-05-31
Murotomisaki 2	MRT2	Kochi,Japan	33.3863N	134.1432E	200	From 1994-01-27
Murphy	W52A	North Carolina,U.S.A.	35.0935N	83.9277W	519	From 2012-04-15
Murphy	MYNC	North Carolina,U.S.A.	35.0739N	84.1279W	550	
Murphy Dome	MDM	Alaska,U.S.A.	64.9588N	148.2300W	634	From 1990-02-16
Murphy's Point	MPPO	Ontario,Canada	44.7700N	76.2648W	143	
Murrieta	MURC	California,U.S.A.	33.6000N	117.1954W	562	From 2005-07-25
Murupara	MUGZ	North Island,New Zealand	38.4771S	176.7705E	337	From 2011-03-29
Murzuk	LUMB	Libya	26.1382N	14.7520E	474	
Musan	KSMUS	Republic of Korea	37.8881N	126.7594E	40	From 2002-10-19
Mushullacta	MUSH	Ecuador	1.7147S	77.8392W	1010	From 1995-10-06
Musihges	OG34	Rhone-Alpes,France	46.0113N	5.9600E	445	From 2002-08-06
Muskinabad	MUS	Tajikistan	38.6833N	69.6000E		
Mu¨-Merkez	MUSM	Turkey	38.7240N	41.5118E	1357	From 2013-03-21
Musomiste	MMB	Bulgaria	41.5892N	23.7278E	606	From 1983-08-01
Musselwhite Mine	MUMO	Ontario,Canada	52.6128N	90.3914W	316	
Musuan	BUKP	Mindanao,Philippines	7.8790N	125.0620E	471	
Mutare	MUZ	Zimbabwe	18.9950S	32.6267E	0	
Mutkov	MUVC	Czech Republic	49.8002N	17.2782E	636	From 2013-07-01
Mutkov	MUTC	Czech Republic	49.7990N	17.2837E	614	
Mutnovka	MTVR	Kamchatskaya Oblast',Russia	52.4830N	158.1830E	1394	From 2008-12-23
Mutnovskaya	MTNS	Kamchatskaya Oblast',Russia	52.5200N	158.1900E	837	From 1983-09-01 to 1983-09-30
Mutribah	MIB	Kuwait	29.8032N	47.3388E	125	
Muttenz-Waldhaus	SMZW	Switzerland	47.5476N	7.6473E	272	From 1996-12-13
Muzaffarabad	MUZF	Jammu and Kashmir,India	34.3600N	73.4900E	1165	From 2006-06-15
Muzera	MZR	Abu Dhabi,United Arab Emirates	23.0024N	53.4794E	300	
MW Ranch, Wilsonville	O30A	Nebraska,U.S.A.	40.1791N	100.0571W	751	From 2009-05-29 to 2011-04-04
Myakit	MYAS	Magadanskaya Oblast',Russia	61.4070N	152.0930E	670	
Myers Farm, Uniontown	E10A	Washington,U.S.A.	46.4850N	117.1102W	903	From 2006-09-28 to 2008-06-20
Myklebust	N2B2	Norway	61.7210N	5.1780E	25	
Mylor	MYLR	South Australia,Australia	35.0448S	138.7537E	385	From 2012-04-16
Myndd Eilian	WME	Wales,United Kingdom	53.3966N	4.3034W	130	From 1985-01-01
Myokensan	MYO	Osaka,Japan	34.9254N	135.4705E	640	
Myponga	MYP	South Australia,Australia	35.4436S	138.4162E	150	From 2006-04-01
Myrtle Point	J01D	Oregon,U.S.A.	43.1614N	123.9314W	131	From 2010-08-06 to 2012-10-03

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Myrtle Point	J01E	Oregon,U.S.A.	43.1615N	123.9314W	128	From 2012-10-10
Myrviken	MYV	Sweden	62.9417N	14.3467E	345	From 1981-12-15
Myrvik Farm, Edmore	B30A	North Dakota,U.S.A.	48.4505N	98.3286W	480	From 2009-08-18 to 2011-07-18
Mys Kozlova	MKZ	Kamchatskaya Oblast',Russia	54.5561N	161.7300E		
Mys Kronotskii	KRCS	Kamchatskaya Oblast',Russia	54.7550N	162.1300E	89	
Mys Shipunski	SPN	Kamchatskaya Oblast',Russia	53.0980N	160.0230E	170	
Mys Shultsa	MSHR	Primorskiy Kray,Russia	42.5800N	131.1570E	84	From 2008-10-01
Mzuzu	MZM2	Malawi	11.4252S	34.0057E	1265	From 2010-08-23
Mzuzu	MZM	Malawi	11.4252S	34.0057E	1273	
N23	N23	Nevada,U.S.A.	37.3013N	116.6160W	1838	
N3440 Road, Meeker	OK020	Oklahoma,U.S.A.	35.5375N	96.8768W	267	
N3530 Road, Sparks	OK021	Oklahoma,U.S.A.	35.6023N	96.7184W	259	
N3560 Road, Prague	OK022	Oklahoma,U.S.A.	35.5368N	96.6649W	272	
Naalehu	NAA	Hawaii,U.S.A.	19.0633N	155.5870W	205	From 1958-01-01 to 1969-01-01
NAB1	NAB1	Eritrea	13.3873N	41.6553E	1340	
NAB2	NAB2	Eritrea	13.4285N	41.7148E	1177	
NAB3	NAB3	Eritrea	13.3758N	41.7548E	1279	
NAB4	NAB4	Eritrea	13.4787N	41.6787E	693	
NAB5	NAB5	Eritrea	13.3150N	41.7082E	1272	
NAB8	NAB8	Eritrea	13.3348N	41.7982E	655	
Nabeyama	NABD	Kagoshima,Japan	31.4875N	130.7753E	340	
Nabire	NABI	Irian Jaya,Indonesia	3.3269S	135.2403E	0	
Naboro	NAF	Fiji	18.1203S	178.3008E	183	From 1979-10-01 to 1983-04-30
Naches	NAC	Washington,U.S.A.	46.7344N	120.8260W	738	
Nachiki	NCHK	Kamchatskaya Oblast',Russia	53.1202N	157.7602E	465	From 2013-12-05
Nacogdoches	NATX	Texas,U.S.A.	31.7598N	94.6610W	168	From 2004-05-13
N Adams	L48A	Michigan,U.S.A.	41.9438N	84.4329W	369	From 2012-07-21
Naden	NDB	British Columbia,Canada	53.9550N	132.9420W	686	
Nadi	NDF	Fiji	17.7569S	177.4500E	30	From 1971-08-05
Nadzab	NADZ	Papua New Guinea	6.5778S	146.7130E	65	
Naegeli Ranch, Trout Creek	C12B	Montana,U.S.A.	47.7092N	115.4750W	801	From 2007-08-27 to 2009-08-02
NAFE	NAFE	France	47.2190N	1.5540W	10	
NAFPAKTOS	NFP	Greece	38.4170N	21.8590E	280	From 2006-01-06
Nagahama	JNA	Ehime,Japan	33.5572N	132.4787E	230	
Nagai Island	NGI	Alaska,U.S.A.	55.0393N	160.0692W	240	
Nagai Island	NAGA	Alaska,U.S.A.	54.9783N	160.1383W	305	From 1996-07-01
Nagano	NGN	Nagano,Japan	36.6600N	138.1950E	419	
Nagara	JCN	Chiba,Japan	35.4183N	140.2017E	40	
Nagarjunasagar	NJS	Andhra Pradesh,India	16.5541N	79.3060E	189	From 2008-09-01
Nagasaki	NGS	Nagasaki,Japan	32.7317N	129.8700E	24	
Nagasakinomozaki	NGSJ	Nagasaki,Japan	32.6327N	129.7987E	20	From 1992-04-25
Nagatsuro	NGT	Shizuoka,Japan	34.6000N	138.8470E	55	
Na-gawa	NGJ	Nagano,Japan	36.1330N	137.7208E	858	
Nage Dongri, Xizang Zizhiqu	RC14	Xizang Zizhiqu,China	29.4972N	86.4373E	4756	From 2002-07-14 to 2002-10-28
Nageezi	U21A	New Mexico,U.S.A.	36.4277N	107.6578W	2124	From 2008-05-23 to 2010-02-07
Nago	NGO	Ryukyu Islands,Japan	26.5950N	127.9730E	7	From 1974-07-01
Nago	NAGO	Ryukyu Islands,Japan	26.0000N	128.1000E		
Nago	NGO1	Ryukyu Islands,Japan	26.5900N	127.9683E	6	From 1987-07-01
Nagor	NGOR	Gujarat,India	23.3100N	69.7300E	170	From 2012-01-01
Nagornyi	NGRS	Sakha,Russia	55.9200N	124.9700E	920	
Nagotoyohara	JNTH	Ryukyu Islands,Japan	26.5185N	128.0222E	46	From 2010-02-01
Nagoya	NAG	Aichi,Japan	35.1650N	136.9680E	56	
Nagpur	NGP	Maharashtra,India	21.1500N	79.0500E	311	
Nagua	NADR	Dominican Republic	19.3541N	69.8561W	4	From 2010-01-30
Nagutskaya	NAGR	Stavropol'skiy Kray,Russia	44.4472N	42.7614E	580	
Naha	NAH	Ryukyu Islands,Japan	26.2167N	127.6833E	11	
Naha	NAH1	Ryukyu Islands,Japan	26.2033N	127.6900E	21	From 1987-02-01
Nahal Hemdat	HMDT	Israel	32.2530N	35.5260E	151	From 1991-05-01
Nahampoana Res	FOMA	Madagascar	24.9756S	46.9788E	26	From 2008-09-01
Nahan	NHN	Himachal Pradesh,India	30.5269N	77.2712E	610	From 2007-05-01
NAHD	NAHD	Egypt	23.8022N	32.7781E	244	
Nahmakanta, Browneville	F63A	Maine,U.S.A.	45.7030N	69.1029W	386	From 2013-09-24
Naiba	NAYS	Sakha,Russia	70.8500N	130.7300E	5	From 1985-01-01 to 2000-11-01
Nailongxiang, Xizang Zizhiqu	NAIL	Xizang Zizhiqu,China	28.6597N	86.4127E	4378	From 2002-06-26 to 2002-11-03
Nain	NANL	Newfoundland,Canada	56.5371N	61.6884W	34	From 2011-07-24
Na'in	NASN	Iran	32.7990N	52.8080E	2800	From 1998-03-28
Nairobi	NAKO	Kenya	1.2739S	36.8037E	1692	
Nairobi	NAI	Kenya	1.2739S	36.8037E	1692	From 1963-06-14
Nairobi	NBI	Kenya	1.2700S	36.8000E	1713	
NAIROBI INFRASONIC ARRAY REFERENCE POINT	B2KE	Kenya	1.2422S	36.8272E	1662	From 2003-06-17
Najran	NAJS	Saudi Arabia	17.5034N	44.2847E	1310	
Naju	KSNAJ	Republic of Korea	35.0261N	127.9264E	68	From 2006-12-30
Nakagawa	TNKJ	Hokkaido,Japan	44.7757N	142.0832E	60	
Nakaizu	JIZ	Yamanashi,Japan	34.9129N	138.9968E	263	
Na'kalak'ari	NKK	Georgia,Georgia	41.9300N	45.0200E	1000	
Nakama	JJN	Niigata,Japan	37.1030N	138.1630E	140	
Nakano	NNJ	Nagano,Japan	36.7486N	138.3850E	420	From 1968-07-01 to 1973-03-31
Nakanohara	NKR	Hiroshima,Japan	34.9419N	132.8240E	391	From 1970-12-18
Nakanosawa	NSW	Nagano,Japan	36.4006N	138.5697E	1381	
Nakanoshima	JNN	Ryukyu Islands,Japan	29.8412N	129.8747E	240	
Nakash	JNK	Nemuro,Japan	43.5853N	144.7190E	220	
Nakatsue	JNU	Oita,Japan	33.1217N	130.8783E	540	
Nakayama Pass	NKS	Shiribeshi,Japan	42.8295N	141.0160E	420	From 1977-11-10 to 1978-08-20
Nakchu	DONG	Xizang Zizhiqu,China	31.9789N	90.9127E	4610	From 1998-07-30 to 1999-05-27
Nake	NKE	Ryukyu Islands,Japan	28.3833N	129.5000E		
Nake (Tuamotu)	NAE	Tuamotu,French Polynesia	18.4236S	140.6690W	2	From 1976-01-01
Nakhchivan	NAX	Azerbaijan	39.1740N	45.4950E	927	From 2003-08-01
Nakhl	HNKL	Egypt	29.9293N	33.9804E	455	
Nakhla	NKM	Morocco	35.4481N	5.4100W	158	From 1973-10-01
Nakhon Sawan	NST	Thailand	15.6727N	100.1330E	34	From 1982-09-01
Nakina Ontario	NANO	Ontario,Canada	50.3543N	86.9684W	309	From 2005-08-04
Nakonayok	NAYO	Thailand	14.3152N	101.3209E	106	
Nakonsritamarat	SRIT	Thailand	8.5955N	99.6020E	58	
Nakornpanom	PANO	Thailand	17.1476N	104.6122E	135	
Nalchik	NCK	Russia	43.4955N	43.5956E	500	From 2006-07-24
Nalgonda	NLG	Andhra Pradesh,India	17.0669N	79.2672E	220	From 1974-04-01
Nalia	NALI	Gujarat,India	23.1529N	68.5002E	21	From 2012-01-01
Nallihan	NAL	Turkey	40.2094N	31.3092E	1390	From 1991-01-01 to 1998-09-30
Nalychevo	NALY	Kamchatskaya Oblast',Russia	53.4600N	158.8400E	520	From 1968-06-02 to 1970-01-01
Nalytchevo	NLC	Kamchatskaya Oblast',Russia	53.1711N	159.3450E	20	
Namangan	NAM	Uzbekistan	40.9914N	71.6594E	479	From 1951-01-01
Namanyere	MIKU	Tanzania,United Republic of Tanzania	7.5095S	31.0413E	1545	
Namatanai	NAMA	Papua New Guinea	3.6653S	152.4416E	5	From 1997-10-24
Namche Bazar	NAMC	Nepal	27.8027N	86.7147E	3523	From 2001-10-21 to 2002-10-18
Namhae	KSNAH	Republic of Korea	34.8166N	127.9264E	40	From 2002-10-31
Namlea	NLAI	Ambon,Indonesia	3.2390S	127.0998E	0	From 2007-12-01
Namosi	NMS	Fiji	18.0842S	178.1650E	534	From 1979-10-01
Nampula	NPA	Mozambique	15.0875S	39.2533E	374	From 1974-02-10
Namsos	NSS	Norway	64.5300N	11.9670E	102	From 1987-02-01
Namu Road	NMEZ	North Island,New Zealand	39.4132S	173.8775E	64	From 2009-04-02
Namwon	KSNAW	Republic of Korea	35.4014N	127.3344E	89	From 2000-02-07
Namwon	NAWB	Republic of Korea	35.4213N	127.3964E	76	From 2012-12-01
Nan	NANT	Thailand	18.8000N	100.7000E	264	From 1995-06-01
Nana	NNA	Peru	11.9873S	76.8422W	575	
Nanahuazin	NANS	El Salvador	13.7150N	89.5092W	1160	
Nanaimo	NAB	British Columbia,Canada	49.2225N	124.0040W	256	From 1982-03-23 to 2004-04-03
Nanaimo Lost Lake,BC	NLLB	British Columbia,Canada	49.2274N	123.9881W	192	From 2003-12-30
Nanao	ENAH	Taiwan region	24.4494N	121.8102E	4	From 2011-01-05
Nanao	NANB	Taiwan region	24.4275N	121.7498E	112	From 2003-12-12
Nanau	ENA	Taiwan region	24.4280N	121.7410E	113	
Nancy	T50A	Kentucky,U.S.A.	37.0204N	84.8384W	302	From 2012-05-23
Nango	JANG	Aomori,Japan	40.3735N	141.5152E	270	
Nanjing	NJ2	Jiangsu,China	32.0517N	118.8540E	45	
Nanjing	NJI	Jiangsu,China	32.0633N	118.7830E	10	
Nanjing	NAN	Jiangsu,China	32.0633N	118.7830E	10	
Nanjuang	NSTT	Taiwan region	24.6310N	121.0010E	164	
Nankipoo	NKT	Tennessee,U.S.A.	35.8500N	89.5540W	153	From 1974-06-26 to 1992-02-29
Nanoose	GHNB	British Columbia,Canada	49.3065N	124.2364W	5	From 2004-11-22
Nan Shan	NNS	Taiwan region	24.4400N	121.3730E	1140	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Nanshi	CHN1	Taiwan region	23.1850N	120.5280E	360	
Nantucket	NMA	Massachusetts,U.S.A.	41.2947N	70.0261W	3	
Nantucket	M66A	Massachusetts,U.S.A.	41.2590N	70.1353W	9	From 2013-09-28
Nanutarra	NAU	Western Australia,Australia	22.5442S	115.5000E	80	From 1980-04-19 to 1987-10-21
Nanutarra	NANU	Western Australia,Australia	22.5619S	115.5290E	80	From 1987-10-22 to 1995-02-28
Napay	NAP	Uzbekistan	41.7167N	70.1167E		
Napfberg	NAPF	Bayern,Germany	49.8887N	12.0517E	695	
Napier	NPR	North Island,New Zealand	39.4882S	176.9180E	3	From 1953-03-01 to 1955-03-31
Naples	NPL	Italy	40.8467N	14.2578E	7	
Napoleon	E29A	North Dakota,U.S.A.	46.5682N	99.6420W	628	From 2009-08-19 to 2011-06-28
Napperby	NAPP	South Australia,Australia	33.1828S	138.1478E	181	From 2009-01-01
Naqoura	NAQL	Lebanon	33.1170N	35.1410E	83	From 2008-07-01
Nara	NAR	Nara,Japan	34.6917N	135.8317E	105	
Nara (Leontica)	NARA	Switzerland	46.4603N	8.8981E	1450	From 2005-12-15
Naramoto	NRME	Shizuoka,Japan	34.8266N	139.0645E	200	
Naratenkawa	JNTK	Nara,Japan	34.2702N	135.8840E	840	From 2012-07-01
Narayananagar	NNR	Himachal Pradesh,India	29.7703N	80.2863E	1651	From 2012-01-01
Nardaran	NDR	Azerbaijan	40.5810N	49.9870E	41	From 2003-08-01
Nardues-Aldunate	YNAR	Spain	42.6375N	1.3672W	740	From 2009-12-11
NAREK	NRKZ	Armenia	40.0000N	44.6600E	1040	From 2013-11-15
Nariel	NARM	New South Wales,Australia	36.4302S	147.8448E	550	
Narli-Kahramanmaras	KHMN	Turkey	37.3915N	37.1573E	640	From 2012-11-29
Narlikuyu	NART	Turkey	36.4510N	34.1030E	100	From 1993-01-01
Narni	NARN	Italy	42.5198N	12.5144E	220	From 2013-09-01
Naroch	NACGM	Belarus	54.9037N	26.7830E	189	From 1979-08-17
Naroch'	NE53	Belarus	54.9040N	26.7930E	189	From 1989-10-01
Narrogin	NWA	Western Australia,Australia	32.9270S	117.2340E	365	From 1976-02-13 to 2006-05-29
Narrogin (SRO)	NWAO	Western Australia,Australia	32.9270S	117.2340E	265	From 1976-02-13
Narrow River	NWR	Idaho,U.S.A.	42.0987N	113.4367W	1646	
Narrows	NAV	Virginia,U.S.A.	37.3167N	80.7931W	610	From 1968-01-01 to 2004-09-30
Narsarsuaq	NRS	Greenland	61.1595N	45.4188W	65	
Naryn	NRN	Kyrgyzstan	41.4333N	76.0000E	2849	
Nasa	NAS2	Ecuador	0.6453S	78.4683W	4022	From 2007-08-15
Nasa	NAS1	Ecuador	0.6335S	78.4775W	3880	From 1993-11-24
Nasa Cotopaxi	NCE	Ecuador	0.6611S	78.4972W	3821	From 1977-01-01 to 1982-12-31
Nasa Mountain	NMN	Nevada,U.S.A.	37.0808N	116.8181W	1500	From 1978-11-28
Nasaqa	NAS	Fiji	16.5367S	179.2967E	85	From 1964-01-01 to 1969-12-31
Nasik	NSIK	Maharashtra,India	20.0300N	73.7970E	0	From 1984-05-18
Nassriya	NSR	Iraq	31.0100N	46.1400E	5	From 2009-01-01
Nastanj	TNSJ	Iran	33.9633N	56.6089E	1123	From 2011-08-01
Nasudden	NSD	Sweden	65.1955N	18.8235E		From 1991-01-01
Nata	NATA	Cyprus	34.7789N	32.5699E	381	From 2013-07-01
Natal	NAT	Rio Grande do Norte,Brazil	5.8678S	35.2845W	50	
Natashquan Quebec	NATG	Gulf of St. Lawrence,Canada	50.2872N	62.8102W	-1	From 2005-11-26
Natchez Trace	NATN	Tennessee,U.S.A.	35.8560N	88.2400W	198	From 1985-03-27 to 1987-05-06
Natchez Trace	NAIN	Tennessee,U.S.A.	35.8560N	88.2400W	198	
Nathian	NTP	Pakistan	34.3272N	72.3858E	686	
Nathian	NAT1	Pakistan	34.3460N	72.3900E	650	From 1973-08-23
National Central University	NCU	Taiwan region	24.9700N	121.1870E	134	
National Guard	NGH	Hawaii,U.S.A.	19.7020N	155.0290W	18	
National Taiwan Ocean University, Keelung City	TNOU	Taiwan region	25.1500N	121.7730E	50	From 1999-08-04
Natividade	NATB	Brazil	21.0550S	42.0040W		
Natividade - TO	NTVD	Tocantins,Brazil	11.7106S	47.6801W	349	From 2011-06-25 to 2013-02-22
Natroun	HNAT	Egypt	29.6329N	30.6172E	266	
Nattai	NATM	New South Wales,Australia	34.2061S	150.4267E	632	
Natural Bridge	YNB	Wyoming,U.S.A.	44.5245N	110.4590W	2390	
Natural Bridge	S56A	Virginia,U.S.A.	37.6771N	79.5662W	449	From 2013-04-03
Natural Harvest Farm, Hartford	J43A	Wisconsin,U.S.A.	43.3808N	88.4185W	322	From 2011-10-12 to 2013-06-11
Natural Resources Authority	JSOJ	Jordan	31.9570N	35.8460E	926	
Naumai	NMHZ	North Island,New Zealand	39.0971S	176.8065E	864	From 2008-02-13
Nausori Highlands	NHF	Fiji	17.8083S	177.5967E	518	From 1964-01-01 to 1969-12-31
Navajo Lake, Ignacio	T21A	New Mexico,U.S.A.	36.9914N	107.5342W	2006	From 2008-05-24 to 2009-11-19
Navajo Res., Navajo Mountain	T17A	Arizona,U.S.A.	36.9969N	110.8041W	1876	From 2007-07-30 to 2009-03-04
Navarro Ridge	GNAM	California,U.S.A.	39.1975N	123.6310W	344	
Navidad	NAVD	Valparaiso,Chile	33.9508S	71.8328W	16	
Naxcivan	NAK	Azerbaijan	39.2050N	45.4150E	887	From 1951-01-01
Naxos Island	NAX1	Greece	37.1014N	25.3742E	0	From 2012-09-01
Naze	NZJ	Ryukyu Islands,Japan	28.3767N	129.4980E	4	From 1973-04-01
Nazlini	NL-AZ	Arizona,U.S.A.	35.9014N	109.5694W	1768	From 1964-03-31 to 1965-01-25
Nazlini	NL-	Arizona,U.S.A.	35.9014N	109.5694W	1768	From 1964-03-31 to 1965-01-25
Nazlini	NL2AZ	Arizona,U.S.A.	35.8069N	109.6286W	1920	
Nazlini	NL2	Arizona,U.S.A.	35.8069N	109.6290W	1920	From 1965-02-10 to 1965-10-04
Nazwa, Dubai	NAZ	United Arab Emirates	24.9884N	55.6618E	199	From 2006-05-24
Neah Bay	NBW	Washington,U.S.A.	48.4000N	124.7000W		
Nea Ionia, Volos	VOL3	Greece	39.3740N	22.9354E	26	From 2011-06-01
Nea Kammeni, Santorini	SNT5	Greece	36.4037N	25.3953E	124	From 2014-04-24
Neapolis	NPS	Crete,Greece	35.2625N	25.6125E	370	From 1973-07-01
Neapolis Laconias	NPS1	Greece	36.5126N	23.0623E	10	From 2011-09-15
Near Bada	BODY	Saudi Arabia	28.3560N	35.1320E		
Near Lassiter	DY5	Tennessee,U.S.A.	36.3247N	89.3621W	134	From 1970-01-01 to 1972-12-31
Near Potsdam	CHIP	New York,U.S.A.	44.7980N	75.1950W	97	
Near Sharaf	MATS	Saudi Arabia	28.7140N	35.0800E		From 1993-07-01 to 1999-08-25
N˜bias	FNEB	Midi-Pyrenees,France	42.9042N	2.1079E	578	From 2007-07-01
Nebitdag	NBD	Turkmenistan	39.5100N	54.3830E	15	
Nebo	V54A	North Carolina,U.S.A.	35.7771N	81.9478W	448	From 2013-02-18
Nectar Brook	NBK	South Australia,Australia	32.7010S	137.9830E	180	
Nedlands	NDA	Western Australia,Australia	31.9750S	115.8170E	8	
Needles	NEE	California,U.S.A.	34.8230N	114.5960W	139	From 1993-04-16
Needles	ND-CL	California,U.S.A.	34.5992N	115.5514W	366	From 1963-04-17 to 1963-06-07
Needles	ND-	California,U.S.A.	34.5992N	115.5514W	366	From 1963-04-17 to 1963-06-07
Needles Airport, Needles	NEE2	California,U.S.A.	34.7676N	114.6188W	271	From 2006-07-27
Neeritter	NEER	Netherlands	51.1687N	5.7846E	30	From 2006-01-27
Negara	NBBI	Bali,Indonesia	8.3700S	114.6200E	0	
Negar Kerman	NGRK	Iran	29.6440N	56.7304E	3123	From 2010-05-05
Neginohata	NGHE	Shizuoka,Japan	34.8122N	138.8281E	160	
Negresti	NEGR	Romania	45.5335N	27.8666E	98	From 2013-09-28
Negril	NEJ	Jamaica	18.2510N	78.3300W	200	From 2002-04-17
NEGU Pad	NEG	California,U.S.A.	38.8305N	122.7699W	922	
Nehbandan	NHDN	Iran	31.3928N	60.0502E	1329	From 2013-11-10
Nehoiu	NEHR	Romania	45.4272N	26.2952E	584	From 2014-05-29
Neicheng	TWE	Taiwan region	24.7211N	121.6670E	20	From 1975-07-18
Neifu	TWZ	Taiwan region	25.0970N	121.5790E	280	From 1975-01-18 to 1983-11-11
Neilton Lookout	NLWA	Washington,U.S.A.	47.3917N	123.8691W	640	From 2006-07-05
Neipperg	NEI	Baden-Wurttemberg,Germany	49.1083N	9.0417E	268	
Nelchina	NCA	Alaska,U.S.A.	61.9937N	146.8240W	741	From 1986-07-17
Nel'koba	NKB	Magadanskaya Oblast',Russia	61.3370N	148.8100E	531	From 1983-09-01 to 1997-06-14
Nelson	NEL	Nevada,U.S.A.	35.7122N	114.8433W	999	From 1963-10-01 to 1981-12-31
Nelson	NEN	Nevada,U.S.A.	35.6495N	114.8433W	1326	
Nelson	NNZ	South Island,New Zealand	41.2171S	173.3795E	130	From 2003-08-12
Nelson	V12A	Nevada,U.S.A.	35.7266N	114.8511W	1098	From 2006-06-19 to 2008-10-16
Nelson Butte	NLW	Washington,U.S.A.	48.0783N	120.3380W	1490	From 1985-05-01
Nelsons Funny Farm, Mountain City	U54A	Tennessee,U.S.A.	36.5209N	81.8204W	837	From 2013-02-28
Nelyaty	NLYR	Chitinskaya Oblast',Russia	56.4911N	115.7031E	596	
Nelyaty	NLY	Buryatiya,Russia	56.5036N	115.7022E	596	From 1979-04-01 to 2001-11-28
Nemaska	NEMQ	Quebec,Canada	51.6837N	76.2576W	197	From 2007-08-27
Nemaska Station	NMSQ	Quebec,Canada	51.7133N	76.0237W	275	From 2009-09-12
Nemea	NMA1	Greece	37.8188N	22.6627E	314	From 2011-11-01
Nemuro	NEM	Nemuro,Japan	43.3283N	145.5900E	26	
Nemuro 2	NEM2	Nemuro,Japan	43.3650N	145.7430E	16	From 1992-12-16
Nemuro--Hokkaido University	NMR	Nemuro,Japan	43.3695N	145.7280E	20	
Nemuroshibetsu	JNSB	Nemuro,Japan	43.7756N	145.0046E	97	From 2013-07-01
Nenana	NEA	Alaska,U.S.A.	64.5772N	149.0770W	364	From 1971-10-01
Nenana	NEA2	Alaska,U.S.A.	64.5928N	149.0694W	450	From 2014-06-12
Neno	NENM1	Malawi	15.3971S	34.6531E	864	From 2011-04-29
Neochorion	VNE	Greece	39.3119N	23.2322E	692	From 1982-10-01
Neokhori	NEO	Greece	39.3067N	23.2235E	500	From 1988-01-01
Neola	M35A	Iowa,U.S.A.	41.4665N	95.6945W	363	From 2010-06-15 to 2012-04-24
NEPTUNE Canada Endeavour node	NCEN	British Columbia,Canada	47.9399N	129.0600W	-2324	From 2009-01-01
NEPTUNE Canada Endeavour West	KEBB	British Columbia,Canada	47.9594N	129.1254W	-2201	From 2009-09-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
NEPTUNE Canada High Rise	NCHR	British Columbia,Canada	47.9741N	129.0819W	-2150	From 2009-01-01
NEPTUNE Canada Main Field	KEMF	British Columbia,Canada	47.9485N	129.0987W	-2205	From 2009-01-01
NEPTUNE Canada Mothra	KEMO	British Columbia,Canada	47.9241N	129.1082W	-2270	From 2009-01-01
Nerja	ANER	Spain	36.7623N	3.8453W	170	
Nerungri	NRGR	Sakha,Russia	56.6570N	124.7230E	840	From 2001-11-01
Neryungri	NYG	Sakha,Russia	56.6800N	124.6600E	760	From 1977-01-01 to 1982-12-31
Neshkan	NSH2	The Chukotsky Autonomous Okrug,Russia	67.1070N	173.6350W	65	
Neshkan, Chukotka	NSH	The Chukotsky Autonomous Okrug,Russia	67.0360N	172.9600W	5	From 2003-09-12
Neskantaga (Lansdowne House)First Nations Ontario	NSKO	Ontario,Canada	52.1965N	87.9305W	241	From 2005-07-29
Nestorio	NEST	Greece	40.4147N	21.0489E	1056	From 2008-06-30
Neuchatel	NEC	Switzerland	47.0063N	6.9487E	600	From 1980-06-01 to 1996-01-19
Neuchatel	NEU	Switzerland	46.9973N	6.9573E	487	From 1911-01-01 to 1999-08-25
Neuenburg	NEUB	Sachsen-Anhalt,Germany	51.2083N	11.7752E	200	From 2003-08-21
Neuenburg, Observatorium, NE	SNES2	Switzerland	47.0000N	6.9531E	483	From 2014-11-18
Neuhaus	RNHA	Bayern,Germany	47.8060N	12.8190E	855	From 2001-05-22
Neumayer	VNA	Dronning Maud Land	70.5997S	8.3622W	40	
Neumayer Olymp	VNA3	Dronning Maud Land	71.2428S	9.6687W	480	
Neumayer--Station	VNA1	Dronning Maud Land	70.6503S	8.2624W	40	From 1992-03-01
Neumayer--Watzmann	VNA2	Dronning Maud Land	70.9252S	7.3927W	350	
Neuquen (mine)	NEUQ	Chile	20.1722S	70.0732W	1043	From 2009-05-17
Nevada	N50A	Ohio,U.S.A.	40.7711N	83.1486W	277	From 2012-06-20
Nevada Test Site	NT2NV	Nevada,U.S.A.	37.2533N	116.2858W	2185	
Nevada Test Site	NT-NV	Nevada,U.S.A.	37.2758N	116.4183W	1987	
Nevada Test Site Array	NTA	Nevada,U.S.A.	37.2783N	116.4370W	1996	
Nevado Cumbal	CUMC	Colombia	0.9607N	77.8723W	3950	From 1989-01-01
Neve Ativ	NATI	Israel	33.2620N	35.7364E	1	From 2012-07-09
Nevel'sk	NEVR	Sakhalinskaya Oblast',Russia	46.6760N	141.8580E	24	From 2008-10-10
Neviano degli Arduini	NEVI	Italy	44.5834N	10.3163E	480	From 2012-05-25
Nevinnomyssk	NVNR	Stavropol'skiy Kray	44.6143N	41.9640E	340	From 2007-02-19
Nevis, Disaster Management Department Office	NVDO	Montserrat	17.1183N	62.6191W	20	From 2013-05-10
Nevis Range	KNR1	Scotland,United Kingdom	56.8219N	4.9714W	1147	From 1991-01-01
Nevrokopi	NVR	Greece	41.3500N	23.8619E	595	From 1997-01-01
Nevsehir-Avanos	AVNS	Turkey	38.8065N	34.8474E	1213	From 2010-12-17
NEVSHA	NEF	Bulgaria	43.2643N	27.2752E	350	From 2007-06-01
New Abbey	BNA	Scotland,United Kingdom	54.9658N	3.6242W	28	
New Alisa	ANAL	Egypt	23.4100N	32.6780E		
Newall Road	NWEZ	North Island,New Zealand	39.2749S	173.8675E	175	From 1996-04-03
Newall Road North Island, New Zealand	NBEZ	North Island,New Zealand	39.2679S	173.8676E	141	From 2012-10-17
New Almaden Mine	JNAM	California,U.S.A.	37.1770N	121.8450W	512	
Newark	NED	Delaware,U.S.A.	39.7042N	75.7047W	47	From 1970-11-19
Newberry Crater	NCOR	Oregon,U.S.A.	43.7040N	121.1380W	1908	From 1987-09-01
Newby Ranch, Pratt	S32A	Kansas,U.S.A.	37.7001N	98.9363W	558	From 2009-10-11 to 2011-08-26
Newcastle	P21A	Colorado,U.S.A.	39.5240N	107.4493W	2097	From 2007-12-12 to 2009-10-22
Newcastle	NWL	Natal,South Africa	27.7207S	29.9532E	1332	
New Castle	NCJ	Jamaica	18.0750N	76.7190W	1142	
Newcastle Hard Rock	NTLH	New South Wales,Australia	32.8983S	151.7030E	64	From 2012-09-26
Newcastle Ridge	NCRB	British Columbia,Canada	50.4035N	126.0553W	1293	
Newcastle Soft Rock	NTLS	New South Wales,Australia	32.9320S	151.7625E	13	From 2010-09-10
Newcomb	U20A	New Mexico,U.S.A.	36.3758N	108.5204W	1682	From 2008-02-19 to 2009-11-21
Newcomb	NCB	New York,U.S.A.	43.9708N	74.2236W	500	
Newdale	I16A	Idaho,U.S.A.	43.8756N	111.4868W	1744	From 2007-08-15 to 2009-09-17
New Delhi	NDI	Delhi,India	28.6833N	77.2167E	230	From 1960-10-01
New Douglas	Q43A	Illinois,U.S.A.	38.9410N	89.6991W	202	From 2011-05-24 to 2013-04-25
Newell	G25A	South Dakota,U.S.A.	45.1935N	103.4173W	894	From 2009-07-10 to 2011-06-03
New Galloway	NEWG	Scotland,United Kingdom	55.1173N	4.2300W	151	
New Goldendale	GL2	Washington,U.S.A.	45.9597N	120.8230W	1000	
New Haven	NHC	Connecticut,U.S.A.	41.3167N	72.9000W	11	From 1925-01-01 to 1999-08-25
New Haven	NHIL	Illinois,U.S.A.	37.9269N	88.1708W	134	
New Hogan Dam	MNHB	California,U.S.A.	38.1459N	120.8136W	206	
New Hogan Reservoir	MNHM	California,U.S.A.	38.1457N	120.8148W	189	From 1977-03-01 to 2011-11-26
New Hope	NHSC	South Carolina,U.S.A.	33.1067N	80.1778W	11	From 2001-05-01
Newington	G57A	Ontario,Canada	45.1036N	74.9855W	96	From 2013-07-24
New Kensington	NKP	Pennsylvania,U.S.A.	40.5597N	79.7542W	251	From 1939-01-01 to 1959-12-31
New Madrid	NMM	Missouri,U.S.A.	36.5910N	89.5282W		From 1967-11-01 to 1969-11-30
New Madrid	NMD	Missouri,U.S.A.	36.5750N	89.4819W	92	
New Madrid	NMMO	Missouri,U.S.A.	36.5880N	89.5520W	90	
New Madrid Sch	NMEM	Missouri,U.S.A.	36.5740N	89.5850W	0	
New Magadan Station 2	NMA2	Magadanskaya Oblast',Russia	59.5497N	150.8000E	50	From 2007-09-17
New Mexico Highlands	NMH	New Mexico,U.S.A.	35.6042N	105.1700W	2026	From 1977-10-15
New Orleans	NOL	Louisiana,U.S.A.	29.9483N	90.1200W	2	From 1910-01-01
New Philadelphia	O53A	Ohio,U.S.A.	40.2493N	81.2129W	320	From 2012-12-13
New Plymouth	NPZ	North Island,New Zealand	39.0640S	174.0735E	34	From 1931-02-01 to 1957-10-03
Newport	NEW	Washington,U.S.A.	48.2642N	117.1227W	760	From 1993-11-13
Newport DOGAMI SMO	NEWO	Oregon,U.S.A.	44.6243N	124.0461W	2	From 2008-02-14
NEWPORT INFRASONIC ARRAY REFERENCE POINT	I56US	Washington,U.S.A.	48.2641N	117.1257W	763	From 2005-07-13
New Reactor	NPRI	Idaho,U.S.A.	43.5975N	112.8270W	1513	From 1990-08-14
New River	NW2	California,U.S.A.	33.0905N	115.6920W	-68	From 1976-12-01
New Salem	NSLM	Texas,U.S.A.	31.9750N	94.9580W		
New Sharon	H63A	Maine,U.S.A.	44.6616N	70.0353W	109	From 2013-09-20
New Underwood	I26A	South Dakota,U.S.A.	44.0309N	102.8596W	971	From 2009-06-18 to 2011-05-08
New Yellowknife Blue 1	YKAB1	Northwest Territories,Canada	62.4023N	114.6063W	146	From 2013-06-26
New Yellowknife Blue 10	YKAB0	Northwest Territories,Canada	62.6059N	114.6060W	196	From 2013-06-26
New Yellowknife Blue 2	YKAB2	Northwest Territories,Canada	62.4247N	114.6064W	151	From 2013-06-26
New Yellowknife Blue 3	YKAB3	Northwest Territories,Canada	62.4485N	114.6061W	159	From 2013-06-26
New Yellowknife Blue 4	YKAB4	Northwest Territories,Canada	62.4709N	114.6057W	165	From 2013-06-26
New Yellowknife Blue 6	YKAB6	Northwest Territories,Canada	62.5164N	114.6057W	174	From 2013-06-26
New Yellowknife Blue 7	YKAB7	Northwest Territories,Canada	62.5389N	114.6061W	178	From 2013-06-26
New Yellowknife Blue 8	YKAB8	Northwest Territories,Canada	62.5614N	114.6054W	171	From 2013-06-26
New Yellowknife Blue 9	YKAB9	Northwest Territories,Canada	62.5829N	114.6047W	188	From 2013-06-26
New YK Array red 1	YKAR1	Northwest Territories,Canada	62.4928N	114.9445W	142	From 2013-06-26
New YK Array red 2	YKAR2	Northwest Territories,Canada	62.4928N	114.8959W	146	From 2013-06-26
New YK Array red 3	YKAR3	Northwest Territories,Canada	62.4929N	114.8477W	147	From 2013-06-26
New YK Array red 4	YKAR4	Northwest Territories,Canada	62.4927N	114.7998W	150	From 2013-06-26
New YK Array red 5	YKAR5	Northwest Territories,Canada	62.4931N	114.7504W	150	From 2013-06-26
New YK Array red 6	YKAR6	Northwest Territories,Canada	62.4932N	114.7019W	162	From 2013-06-26
New YK Array red 7	YKAR7	Northwest Territories,Canada	62.4932N	114.6544W	168	From 2013-06-26
New YK Array red 8	YKAR8	Northwest Territories,Canada	62.4931N	114.6061W	168	From 2013-06-26
New YK Array red 9	YKAR9	Northwest Territories,Canada	62.4930N	114.5564W	172	From 2013-06-26
Neytrino	NEY	Russia	43.2489N	42.7222E	1715	From 2008-12-05
Nezhdaninsk	NZD	Sakha,Russia	62.5000N	139.0600E	603	From 1980-06-01 to 1998-09-01
NGAL	NGAL	Egypt	23.4191N	32.7329E	100	
Ngamring, Xizang Zizhiqu	ONRN	Xizang Zizhiqu,China	29.3020N	87.2440E	4350	From 2002-07-13 to 2002-08-02
Ngariki Road	NRZ	North Island,New Zealand	39.3357S	173.9332E	250	From 1991-02-21 to 2009-06-10
Ngau Island	GAU	Fiji	18.0817S	179.3296E	286	From 1978-05-01 to 1999-08-25
Ngauruhoe	NGZ	North Island,New Zealand	39.1756S	175.6012E	1452	From 1976-06-01
Ngawi	NGJI	Jawa,Indonesia	7.3676S	111.4612E	0	From 2007-12-01
NGMR	NGMR	Egypt	23.5217N	32.4074E	207	
Ngongotaha	NGRZ	North Island,New Zealand	38.1018S	176.1874E	685	From 2011-10-26
Ngoundere	NGC	Cameroon	7.2617N	13.5683E	1100	From 1982-02-01
NGWR	NGWR	Egypt	23.6684N	32.7912E	0	
Nha Trang	NTV	Vietnam	12.2667N	109.1943E	5	
Nha-Trang	NHA	Vietnam	12.2100N	109.2120E	5	From 1957-06-01
Nhimo	NHIM	Xizang Zizhiqu,China	29.4336N	90.1643E	3822	From 2004-06-18
Nhulunbuy High School	AUNHS	Northern Territories,Australia	12.1900S	136.7800E	20	From 2013-08-11
Niagara	NG-	Wisconsin,U.S.A.	45.7575N	88.1492W	396	From 1961-11-19 to 1963-06-14
Niagara	NG-WS	Wisconsin,U.S.A.	45.7575N	88.1492W	396	From 1961-11-19 to 1963-06-14
Nian	NIAN	Iran	27.5596N	56.8349E	248	From 2010-04-30
Nibetsu	NIB	Akita,Japan	39.8033N	140.2683E	243	
Nice Cerbom	NCER	Provence-Cote d'Azur,France	43.6895N	7.2950E	30	From 2012-07-23
Nice, cimeti"ore Caucade	NCAU	Provence-Cote d'Azur,France	43.6751N	7.2123E	28	From 2013-05-14
Nice - Cite Administrative des Alpes-Maritimes	NCAD	Provence-Cote d'Azur,France	43.6710N	7.2000E	5	From 2002-04-26
Nice, Eglise du Port	NPOR	Provence-Cote d'Azur,France	43.7000N	7.2860E	5	From 1990-01-01
Nice, Jardin Alsace-Lorraine	NALS	Provence-Cote d'Azur,France	43.6990N	7.2580E	6	From 1998-05-07
Nice, Liberation	NLIB	Provence-Cote d'Azur,France	43.7100N	7.2640E	18	From 1998-05-07
Nice, Mont Boron	NBOR	Provence-Cote d'Azur,France	43.6910N	7.3020E	191	From 1990-01-01
Nice, Saint-Roch	NROC	Provence-Cote d'Azur,France	43.7160N	7.2930E	22	From 1998-05-07
Nichawak Mountain	NICHA	Alaska,U.S.A.	60.2366N	143.9672W	507	
Nichinankitagou	JNKG	Miyazaki,Japan	31.6621N	131.3760E	38	From 2013-07-01
Nicholson Point	NPT	Northwest Territories,Canada	69.9272N	128.9630W	60	From 1981-08-08

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Nicolai Mountain	NLO	Oregon,U.S.A.	46.0883N	123.4500W	900	
Nicolau / Grandola	PNCL	Portugal	38.1118N	8.5289W	120	From 2008-09-26
Nicolosi	ENLS	Sicily,Italy	37.6060N	15.0243E	666	From 2002-10-01
Nicolosi	ENCS	Sicily,Italy	37.6390N	15.0050E	958	From 1994-10-01
Nicolosi	ENIC	Italy	37.6314N	15.0216E	882	From 2006-03-08
Nicosia	NIC	Cyprus	35.1564N	33.3450E	166	
Nicosia	CMET	Cyprus	35.1960N	33.3630E	134	From 2006-10-17
Nicoya	NICO	Costa Rica	10.1345N	85.4470W	1480	
Nicoya	AR8	Costa Rica	10.1925N	85.5206W	511	
Niedersach Riedel	NRDL	Niedersachsen,Germany	52.4943N	10.1073E	-355	
Niedzica	NIE	Poland	49.4182N	20.2996E	649	
Nigde	NIG	Turkey	38.1100N	34.6100E	2291	
Nigde	BSTP	Turkey	37.9508N	34.1100E	1318	From 2005-02-25
Nigde/Merkez-Gumusler	NIDE	Turkey	37.9999N	34.7768E	1420	From 2014-12-01
Niigata	NII	Niigata,Japan	37.9100N	139.0520E	3	
Niigata 2	NIIJ	Niigata,Japan	37.2400N	139.0020E	31	From 1978-01-01
Niihama	NHM	Ehime,Japan	33.9500N	133.2500E		
Nii jima	NJJ	Bonin Islands,Japan	34.3667N	139.2500E	50	
Nii jima 2	NJJJ	Bonin Islands,Japan	34.4020N	139.2830E	180	From 1988-01-01
Niijimaoohara	JNIO	Japan	34.3560N	139.2742E	57	From 2010-02-01
Nijar	ENIJ	Spain	36.9717N	2.2069W	440	From 1985-04-01
Nikishka	NKA	Alaska,U.S.A.	60.7431N	151.2380W	100	From 1971-09-10
Nikkaluokta	NIKU	Sweden	67.8673N	19.0347E	300	From 2003-08-24
Nikolaevsk School	NHSA	Alaska,U.S.A.	59.8111N	151.6127W	256	
Nikolayevsk	NKL	Khabarovskiy Kray,Russia	53.1500N	140.6800E	15	
Nikolski	NIK	Alaska,U.S.A.	52.9743N	168.8530W	207	From 1971-05-17
Nikolski	NIKO	Alaska,U.S.A.	52.9738N	168.8539W	8	
Nikolski	NKI	Alaska,U.S.A.	52.9426N	168.8570W	8	
Nikolski High Hill	NIKH	Alaska,U.S.A.	52.9731N	168.8530W	199	
Niksic	NKME	Montenegro	42.7670N	18.9530E	688	From 2009-06-04
Niksic	NKY	Montenegro	42.8130N	18.9932E	1142	From 1983-12-25
Niles Canyon	CNIC	California,U.S.A.	37.6079N	121.9646W	393	
Nilore	NIL	Pakistan	33.6500N	73.2517E	536	From 1994-12-19
Nine Bar Ranch, Gage	U31A	Oklahoma,U.S.A.	36.3695N	99.8508W	725	From 2009-04-07 to 2011-03-12
Nine Mile Canyon	WNMM	California,U.S.A.	35.8428N	117.9048W		
Nine Mile Canyon	NMC	California,U.S.A.	35.8428N	117.9048W	951	
Ninemile Creek	NCM	Montana,U.S.A.	47.1802N	114.5660W	1183	From 1983-06-15
Ninemile Divide	NDMT	Montana,U.S.A.	47.2690N	114.7988W	1917	
Nine Sixteen Ranch, Cliff	Z20A	New Mexico,U.S.A.	33.1132N	108.5922W	1547	From 2008-02-20 to 2009-12-11
Ninganchiao	NACB	Taiwan region	24.1738N	121.5947E	130	
Niniconang	NINI	Sulawesi,Indonesia	4.4225S	119.7560E	1463	
Ninilchik	NNL	Alaska,U.S.A.	60.0422N	151.2960W	366	From 1972-08-24
Ninilchik One	NIN	Alaska,U.S.A.	60.0111N	151.5360W	110	From 1971-08-28 to 1972-08-24
Ninotsminda	NTS	Georgia,Georgia	41.7410N	45.2865E	915	From 2003-01-01
Niobrara River	NR-	Nebraska,U.S.A.	42.8197N	101.7011W	975	
Niobrara River	NR-NB	Nebraska,U.S.A.	42.8197N	101.7011W	975	
Nioudou	ENTT	Taiwan region	24.6400N	121.5660E	280	
Nirayama	NRY	Shizuoka,Japan	35.0599N	138.9628E	-91	
Nirehara	NRJ	Toyama,Japan	36.5133N	137.2384E	220	
Nishiizu	NSI	Shizuoka,Japan	34.7870N	138.8040E	-422	
Nishinai	K01	Iwate,Japan	39.3989N	141.6053E	431	
Nisiros	NISR	Greece	36.6117N	27.1283E	48	
Nisos Aigina	NAIG	Greece	37.7585N	23.4887E	221	
Nisos Salamina	NSAL	Greece	37.9066N	23.4633E	190	
Nissan Island	NIS	New Britain,Papua New Guinea	4.5300S	154.2383E	10	From 1971-08-01
Nisyros Isl.	NIS1	Greece	36.6023N	27.1782E	378	From 2008-05-24
Nisyros Isl.	NIS3	Greece	36.5742N	27.1557E	271	From 2009-03-23
Nisyros Isl.	NIS2	Greece	36.5780N	27.1808E	400	From 2009-03-23
Nisyros Isl.	NIS4	Greece	36.6717N	27.1314E	0	From 2009-03-23
Niue	NUE	Cook Islands	19.0764S	169.9280W	56	From 1973-04-15
Niue	NIUE	Niue	19.0763S	169.9272W	108	From 2007-09-20
Niukaw	JGN	Gifu,Japan	36.2232N	137.3153E	775	
Niumate	NIU	Tonga	21.1600S	175.2900W	15	
Nizh Angarsk	NIZ	Buryatiya,Russia	55.7750N	109.5411E	487	
Nizhniy Bestyah	NBS	Sakha,Russia	61.9339N	129.8864E	90	From 2006-07-31
Njombe	NJOM	Tanzania,United Republic of Tanzania	9.3665S	34.7912E	1956	
N'lazarevskaya	NVL	Dronning Maud Land	70.7667S	11.8333E	107	
NNAL	NNAL	Egypt	23.2931N	32.6645E	266	
NNMR	NNMR	Egypt	23.7379N	32.5621E	100	
No. 579 Westminster Ave.	OTWM	Ontario,Canada	45.3824N	75.7628W	69	From 2001-11-08
NOAA--Sand Point	NOWS	Washington,U.S.A.	47.6867N	122.2559W	2	
Noah's Angus Ranch, Cambridge	H10A	Idaho,U.S.A.	44.5890N	116.7474W	882	From 2006-10-28 to 2008-07-09
Nobeoka	NOB	Miyazaki,Japan	32.5783N	131.6600E	20	
Noboribetsu	JNB	Iburi,Japan	42.4687N	141.0383E	110	
Noci	NOCI	Italy	40.7888N	17.0644E	420	From 2005-08-03
Nodinka Narrows	NODN	Northwest Territories,Canada	63.9607N	110.9601W	435	
Noerdlinger Ries-Bissingen	NORI	Bayern,Germany	48.7203N	10.6250E	492	From 2003-06-10
Nogliki	NGLR	Sakhalinskaya Oblast',Russia	51.7830N	143.1260E	11	From 2010-09-18
Nogliki	NGLS	Sakhalinskaya Oblast',Russia	51.8170N	143.1500E	25	From 1964-10-20 to 1995-02-01
Nojiri	NOJ	Kagoshima,Japan	31.5586N	130.6386E	150	
Nola	NL9	Italy	40.9205N	14.5450E	75	From 1992-01-01
Nome	E31A	North Dakota,U.S.A.	46.5583N	97.8879W	427	From 2010-08-19 to 2012-06-28
Nome	ANM	Alaska,U.S.A.	64.5655N	165.3720W	330	
Nome	NOM	Alaska,U.S.A.	64.5617N	165.3870W		
Nongkai	NONG	Thailand	18.0635N	103.1457E	140	
Nongplab	NNT	Thailand	12.5898N	99.7338E	106	From 1982-11-01
Nongstoin	NGNA	Meghalaya,India	25.5217N	91.2720E		
Nonn-Bad Reichenhall	RNON	Bayern,Germany	47.7405N	12.8671E	555	From 2000-05-24
Nono	NONO	Ecuador	0.0557S	78.5780W	2972	
Nonsavu	MSVF	Fiji	17.7333S	178.0500E	783	From 1994-05-24
Nootka	NTKA	British Columbia,Canada	49.5924N	126.6166W	12	From 2013-03-23
Nopah Range	NOP	California,U.S.A.	36.1271N	116.1522W	983	From 1978-07-24 to 2002-12-10
Nora	NRAU	Sweden	59.5704N	15.0401E	150	From 2002-01-29
Noranda	NRMS	Missouri,U.S.A.	36.4870N	89.5880W	88	
Nor Artik	NARZ	Armenia	40.4650N	43.7160E	1550	
Norcasia	NORC	Colombia	5.5635N	74.8692W	536	
NORCASIA, CALDAS	CNOCA	Colombia	5.5660N	74.8720W	519	From 2012-11-26
Norcia	UNRC	Italy	42.7984N	16.1414E	679	From 2001-06-30
Norcia	NRCA	Italy	42.8336N	13.1143E	927	
Nord	NOR	Greenland	81.6000N	16.6833W	36	From 1957-01-01
Norderasen	NOD	Sweden	63.4428N	14.8573E	450	
Nord Galaele Koma	BEAD	Djibouti	11.5715N	42.5277E	10	From 1987-01-01
Nordlingen	NRD	Bayern,Germany	48.8500N	10.4833E	432	From 1912-01-01 to 1931-12-31
Nordman	NTI	Idaho,U.S.A.	48.6300N	116.9630W	823	From 1967-08-27 to 1975-12-08
Nordsjona	N1R3	Norway	66.3370N	13.4060E	68	
NORESS Array Beam Reference Point	NORES	Norway	60.7353N	11.5414E	302	
NORESS Array Site A0	NRA0	Norway	60.7353N	11.5414E	302	From 1984-10-01 to 2002-06-11
NORESS Array Site A1	NRA1	Norway	60.7366N	11.5423E	291	From 1984-10-01 to 2002-06-11
NORESS Array Site A2	NRA2	Norway	60.7343N	11.5434E	311	From 1984-10-01 to 2002-06-11
NORESS Array Site A3	NRA3	Norway	60.7350N	11.5387E	296	From 1984-10-01 to 2002-06-11
NORESS Array Site B1	NRB1	Norway	60.7381N	11.5426E	299	From 1984-10-01 to 2002-06-11
NORESS Array Site B2	NRB2	Norway	60.7355N	11.5475E	315	From 1984-10-01 to 2002-06-11
NORESS Array Site B3	NRB3	Norway	60.7326N	11.5440E	314	From 1984-10-01 to 2002-06-11
NORESS Array Site B4	NRB4	Norway	60.7333N	11.5372E	299	From 1984-10-01 to 2002-06-11
NORESS Array Site B5	NRB5	Norway	60.7367N	11.5364E	289	From 1984-10-01 to 2002-06-11
NORESS Array Site C1	NRC1	Norway	60.7414N	11.5434E	299	From 1984-10-01 to 2002-06-11
NORESS Array Site C2	NRC2	Norway	60.7383N	11.5525E	339	From 1984-10-01 to 2002-06-11
NORESS Array Site C3	NRC3	Norway	60.7331N	11.5533E	352	From 1984-10-01 to 2002-06-11
NORESS Array Site C4	NRC4	Norway	60.7293N	11.5452E	311	From 1984-10-01 to 2002-06-11
NORESS Array Site C5	NRC5	Norway	60.7301N	11.5341E	299	From 1984-10-01 to 2002-06-11
NORESS Array Site C6	NRC6	Norway	60.7348N	11.5287E	303	From 1984-10-01 to 2002-06-11
NORESS Array Site C7	NRC7	Norway	60.7402N	11.5331E	275	From 1984-10-01 to 2002-06-11
NORESS Array Site D1	NRD1	Norway	60.7486N	11.5449E	305	From 1984-10-01 to 2002-06-11
NORESS Array Site D2	NRD2	Norway	60.7444N	11.5616E	372	From 1984-10-01 to 2002-06-11
NORESS Array Site D3	NRD3	Norway	60.7359N	11.5689E	453	From 1984-10-01 to 2002-06-11
NORESS Array Site D4	NRD4	Norway	60.7271N	11.5633E	379	From 1984-10-01 to 2002-06-11
NORESS Array Site D5	NRD5	Norway	60.7222N	11.5475E	348	From 1984-10-01 to 2002-06-11
NORESS Array Site D6	NRD6	Norway	60.7233N	11.5288E	352	From 1984-10-01 to 2002-06-11
NORESS Array Site D7	NRD7	Norway	60.7302N	11.5162E	337	From 1984-10-01 to 2002-06-11

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
NORESS Array Site D8	NRD8	Norway	60.7390N 11.5168E	301	From 1984-10-01 to 2002-06-11
NORESS Array Site D9	NRD9	Norway	60.7466N 11.5266E	278	From 1984-10-01 to 2002-06-11
NORESS Array Site E0	NRE0	Norway	60.7353N 11.5414E	307	From 1984-10-01 to 2002-06-11
Norfolk	NRFK	Norfolk Island,Australia	29.0400S 167.9630E	196	
Norfolk Island	NFK	Norfolk Island,Australia	29.0433S 167.9388E	203	From 2008-07-10
Norfolk Island	NIA	Norfolk Island,Australia	29.0417S 167.9600E	130	From 1969-12-01 to 1977-05-26
Noril'sk	NRI	Krasnoyarskiy Kray,Russia	69.4300N 88.0830E	44	
Noril'sk	NRIL	Krasnoyarskiy Kray,Russia	69.5049N 88.4414E	92	
Noril'sk	NRIK	Krasnoyarskiy Kray,Russia	69.3396N 87.5550E	185	From 2010-10-28
Noril'sk	NRIS	Krasnoyarskiy Kray,Russia	69.0061N 87.9964E	498	
Nor Kachakap	SARS	Armenia	40.8467N 44.3483E	1525	
Norman	NMO	Oklahoma,U.S.A.	35.2056N 97.4440W	354	From 1975-01-01 to 1976-09-30
Norman Wells, NWT	NOWN	Northwest Territories,Canada	65.2943N 126.7145W	186	From 2012-08-15
Norrel Spur, Hamburg	Z42A	Arkansas,U.S.A.	33.2739N 91.9474W	39	From 2011-04-19 to 2013-02-17
Norris Canyon Road	CNCM	California,U.S.A.	37.7560N 121.9900W	306	
Norris Junction	NJW	Wyoming,U.S.A.	44.7303N 110.6930W	2290	From 1972-10-01
Norris Junction	YNR	Wyoming,U.S.A.	44.7155N 110.6792W	2336	
Norrtaelje	NRTU	Sweden	59.6769N 18.6308E	40	From 2002-01-15
NORSAR 1A	NA0	Norway	60.8237N 10.8324E	379	From 1971-01-01
NORSAR Array Beam Reference Point	NOA	Norway	61.0397N 11.2148E	717	
NORSAR Array Site 01A00	NAO00	Norway	60.8237N 10.8324E	379	
NORSAR Array Site 01A01	NAO01	Norway	60.8442N 10.8865E	426	
NORSAR Array Site 01A02	NAO02	Norway	60.8057N 10.8971E	362	
NORSAR Array Site 01A03	NAO03	Norway	60.7881N 10.8084E	223	
NORSAR Array Site 01A04	NAO04	Norway	60.8105N 10.7625E	297	
NORSAR Array Site 01A05	NAO05	Norway	60.8507N 10.8193E	290	
NORSAR Array Site 01B00	NBO00	Norway	61.0307N 10.7777E	529	
NORSAR Array Site 01B01	NBO01	Norway	61.0616N 10.7834E	596	
NORSAR Array Site 01B02	NBO02	Norway	61.0492N 10.8569E	521	
NORSAR Array Site 01B03	NBO03	Norway	61.0129N 10.8371E	429	
NORSAR Array Site 01B04	NBO04	Norway	61.0119N 10.7524E	398	
NORSAR Array Site 01B05	NBO05	Norway	61.0597N 10.7219E	553	
Norsar Array Site 01C00	NCO	Norway	61.3371N 10.5856E	974	From 1971-04-01 to 1976-10-31
NORSAR Array Site 02B00	NB200	Norway	61.0397N 11.2148E	717	
NORSAR Array Site 02B01	NB201	Norway	61.0495N 11.2939E	613	
NORSAR Array Site 02B02	NB202	Norway	61.0069N 11.2778E	647	
NORSAR Array Site 02B03	NB203	Norway	61.0107N 11.1677E	730	
NORSAR Array Site 02B04	NB204	Norway	61.0498N 11.1581E	670	
NORSAR Array Site 02B05	NB205	Norway	61.0710N 11.1977E	637	
NORSAR Array Site 02C00	NC200	Norway	61.2807N 10.8354E	847	
NORSAR Array Site 02C01	NC201	Norway	61.2988N 10.9138E	1033	
NORSAR Array Site 02C02	NC202	Norway	61.2545N 10.9110E	2054	
NORSAR Array Site 02C03	NC203	Norway	61.2438N 10.8318E	714	
NORSAR Array Site 02C04	NC204	Norway	61.2759N 10.7629E	851	
NORSAR Array Site 02C05	NC205	Norway	61.3231N 10.8227E	958	
NORSAR Array Site 03C00	NC300	Norway	61.2617N 11.4141E	366	
NORSAR Array Site 03C01	NC301	Norway	61.2762N 11.4905E	290	
NORSAR Array Site 03C02	NC302	Norway	61.2328N 11.4726E	300	
NORSAR Array Site 03C03	NC303	Norway	61.2251N 11.3690E	401	
NORSAR Array Site 03C04	NC304	Norway	61.2784N 11.3320E	393	
NORSAR Array Site 03C05	NC305	Norway	61.2979N 11.4035E	312	
NORSAR Array Site 04C00	NC400	Norway	61.0791N 11.7189E	522	
NORSAR Array Site 04C01	NC401	Norway	61.0804N 11.7994E	583	
NORSAR Array Site 04C02	NC402	Norway	61.0446N 11.7573E	450	
NORSAR Array Site 04C03	NC403	Norway	61.0537N 11.6683E	304	
NORSAR Array Site 04C04	NC404	Norway	61.0982N 11.6456E	332	
NORSAR Array Site 04C05	NC405	Norway	61.1128N 11.7153E	496	
NORSAR Array Site 06C00	NC600	Norway	60.7473N 11.4584E	321	
NORSAR Array Site 06C01	NC601	Norway	60.7746N 11.5416E	248	
NORSAR Array Site 06C02	NC602	Norway	60.7353N 11.5414E	305	
NORSAR Array Site 06C03	NC603	Norway	60.7050N 11.4807E	340	
NORSAR Array site 06C04	NC604	Norway	60.7263N 11.3956E	378	
NORSAR Array Site 06C05	NC605	Norway	60.7770N 11.4103E	242	
NORSAR Subarray 10C Beam Reference Point	N10	Norway	60.4695N 10.2999E	403	From 1971-01-01 to 1976-10-01
NORSAR Subarray 11C Beam Reference Point	N11	Norway	60.6171N 10.2497E	242	From 1971-01-01 to 1976-10-01
NORSAR Subarray 12C Beam Reference Point	N12	Norway	60.7729N 9.9845E	637	From 1971-01-01 to 1976-10-01
NORSAR Subarray 13C Beam Reference Point	N13	Norway	61.0498N 9.8861E	919	From 1971-01-01 to 1976-10-01
NORSAR Subarray 14C Beam Reference Point	N14	Norway	61.1869N 10.2729E	492	From 1971-01-01 to 1976-10-01
NORSAR Subarray 1A Beam Reference Point	NAO	Norway	60.8237N 10.8324E	379	From 1971-01-01
NORSAR Subarray 1B Beam Reference Point	NBO	Norway	61.0307N 10.7777E	529	From 1971-04-01
NORSAR Subarray 2B Beam Reference Point	NB2	Norway	61.0397N 11.2148E	717	From 1971-04-01
NORSAR Subarray 2C Beam Reference Point	NC2	Norway	61.2807N 10.8354E	847	From 1971-04-01
NORSAR Subarray 3B Beam Reference Point	NB3	Norway	60.9130N 11.2696E	529	From 1971-04-01 to 1976-10-31
NORSAR Subarray 3C Beam Reference Point	NC3	Norway	61.2617N 11.4141E	366	From 1971-04-01
NORSAR Subarray 4B Beam Reference Point	NB4	Norway	60.6738N 11.1881E	239	From 1971-04-01 to 1976-10-31
NORSAR Subarray 4C Beam Reference Point	NC4	Norway	61.0791N 11.7189E	522	From 1971-04-01
NORSAR Subarray 5B Beam Reference Point	NB5	Norway	60.6224N 10.8369E	428	From 1971-04-01 to 1976-10-31
NORSAR Subarray 5C Beam Reference Point	NC5	Norway	60.9468N 11.8004E	425	From 1971-04-01 to 1976-10-31
NORSAR Subarray 6B Beam Reference Point	NB6	Norway	60.7300N 10.4589E	630	From 1971-04-01 to 1976-10-31
NORSAR Subarray 6C Beam Reference Point	NC6	Norway	60.7473N 11.4584E	321	From 1971-04-01
NORSAR Subarray 7B Beam Reference Point	NB7	Norway	60.9200N 10.4658E	759	From 1971-04-01 to 1976-10-31
NORSAR Subarray 7C Beam Reference Point	NC7	Norway	60.4553N 11.4988E	221	From 1971-04-01 to 1976-10-31
NORSAR Subarray 8C Beam Reference Point	NC8	Norway	60.4756N 11.0868E	480	From 1971-04-01 to 1976-10-31
NORSAR Subarray 9C Beam Reference Point	NC9	Norway	60.4094N 10.6038E	478	From 1971-04-01 to 1976-10-31
North	AR9	Costa Rica	10.4717N 84.7286W	658	From 1975-07-13
Northampton	L61B	Massachusetts,U.S.A.	42.4498N 72.6802W	261	From 2013-09-10
North Anna	NA2	Virginia,U.S.A.	38.1279N 77.7401W	99	From 1978-10-01 to 1999-08-25
North Anna	NA11	Virginia,U.S.A.	37.9831N 77.6850W		
North Anna	NA5	Virginia,U.S.A.	38.0108N 77.7365W	76	From 1978-08-01 to 2004-09-30
North Anna	NA12	Virginia,U.S.A.	37.9882N 77.8770W	134	From 1978-08-01
North Anna 1	NV1	Virginia,U.S.A.	38.0618N 77.7870W		From 1974-01-01 to 1999-08-25
North Anna 2	NV2	Virginia,U.S.A.	38.0628N 77.8503W		From 1974-01-01 to 1999-08-25
North Anna 3	NV3	Virginia,U.S.A.	38.0983N 77.8093W		From 1974-01-01 to 1999-08-25
North Anna 4	NV4	Virginia,U.S.A.	38.0268N 77.7808W		From 1974-01-01 to 1999-08-25
North Anna 5	NV5	Virginia,U.S.A.	38.0537N 77.7365W		From 1974-01-01 to 1999-08-25
North Anna 6	NV6	Virginia,U.S.A.	38.0913N 77.7782W		From 1974-01-01 to 1999-08-25
North Anna 7	NV7	Virginia,U.S.A.	38.0227N 77.8570W		From 1974-01-01 to 1999-08-25
North Bangong	ST19A	Xizang Zizhiqu,China	32.1034N 89.1948E	4540	From 1998-07-24 to 1999-05-28
North Bangong Suture	ST22	Xizang Zizhiqu,China	32.3326N 89.1163E	4707	From 1998-08-17 to 1999-05-29
North Bay	NBH	Hawaii,U.S.A.	19.4950N 155.5800W	1221	From 1964-03-12 to 1968-07-05
North beach	NRTH	Turkey	40.2530N 29.0420E	3	From 2006-09-29
North Boqe	ST05	Xizang Zizhiqu,China	31.0402N 90.1741E	4836	From 1998-07-16 to 1999-05-30
North Branch	NB-MN	Minnesota,U.S.A.	45.5328N 92.8475W	259	
North Branch	NB-	Minnesota,U.S.A.	45.5328N 92.8475W	259	
North Capps Glacier	NCG	Alaska,U.S.A.	61.4037N 152.1570W	1244	From 1989-08-07
North Carolina A&T Campus	NCAT	North Carolina,U.S.A.	36.0790N 79.7712W	243	
North Crescent	NCT	Alaska,U.S.A.	60.5617N 152.9300W	1166	From 1988-08-14
North Deqen	ST02	Xizang Zizhiqu,China	30.7865N 90.2491E	4801	From 1998-07-17 to 1998-07-24
North Doima	ST28	Xizang Zizhiqu,China	32.8218N 88.8481E	4843	From 1998-07-11 to 1999-06-05
Northeast Doima	ST29	Xizang Zizhiqu,China	32.9343N 88.8532E	4829	From 1998-07-25 to 1999-06-05
Northeast Serting	ST16A	Xizang Zizhiqu,China	31.9196N 89.4203E	4552	From 1998-07-24 to 1999-05-30
North Egmont	NEZ	North Island,New Zealand	39.2702S 174.0957E	920	From 1985-04-17
Northern Antelope Island	NAIU	Utah,U.S.A.	41.0162N 112.2280W	1472	From 1991-11-13
NorthernBC 1	NBC1	British Columbia,Canada	59.6559N 123.8237W	416	From 2013-03-11
NorthernBC 2	NBC2	British Columbia,Canada	59.7779N 122.4878W	487	From 2013-03-13
NorthernBC 3	NBC3	British Columbia,Canada	59.6365N 120.6692W	451	From 2013-03-14
NorthernBC 4	NBC4	British Columbia,Canada	55.6873N 120.6617W	785	From 2013-03-19
NorthernBC 5	NBC5	British Columbia,Canada	57.5231N 122.6777W	1157	From 2013-03-16
NorthernBC 6	NBC6	British Columbia,Canada	58.5839N 121.3339W	440	From 2013-03-16
Northern Marianas College	NMCC	Mariana Islands	15.1500N 145.7160E	100	From 1992-05-01
Northfield	NRT	Vermont,U.S.A.	44.1667N 72.6833W	256	
North Gasline	NGL	Alaska,U.S.A.	60.8208N 149.9980W	122	
North Gisborne	NOZ	North Island,New Zealand	38.6162S 178.0369E	60	From 1989-04-17 to 2004-04-03
North Grampians	GOGM	Victoria,Australia	36.8882S 142.3996E	265	
North Greenland Eemian Ice Drilling site	NEEM	Greenland	77.4450N 51.0650W	2454	From 2007-08-22
North Grip Drilling Camp	NGR	Greenland	75.0010N 42.3148W	2960	
North Hampton	NHS	South Carolina,U.S.A.	33.0717N 79.7556W	10	From 1974-05-20 to 1980-12-31
North Heping	ST25A	Xizang Zizhiqu,China	32.6117N 88.9537E	4806	From 1998-07-26 to 1999-06-05
North Hollywood	HLLC	California,U.S.A.	34.1764N 118.3597W	193	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
North Isle of Man	GIM	Isle of Man	54.2923N	4.4670W	366	From 1989-01-01
North Jangngalda	ST35	Xizang Zizhiqu,China	33.4768N	88.7363E	4941	From 1998-07-26 to 1999-06-04
North Kanaga	AD7	Alaska,U.S.A.	51.9000N	177.0900W	244	From 1974-01-01 to 1992-02-01
North Lily Mine	NLU	Utah,U.S.A.	39.9548N	112.0750W	2036	
North Maintong	ST12A	Xizang Zizhiqu,China	31.6400N	89.7888E	4642	From 1998-08-20 to 1998-11-27
North Marawa	ANMR	Egypt	23.7340N	32.5626E	210	
North Mineral Mountain	NMUT	Utah,U.S.A.	38.5165N	112.8500W	1853	From 1987-10-01
North Nagishlamina, Mt. Spurr	SPNN	Alaska,U.S.A.	61.3668N	152.6991W	1666	
North-of-Casa	NOCG	California,U.S.A.	37.6875N	118.9190W	2475	From 1984-07-01
North of Pu'u O'o Crater	NPOC	Hawaii,U.S.A.	19.3930N	155.1096W	726	
North of River	ST37	Xizang Zizhiqu,China	33.6064N	88.5231E	5161	From 1998-07-11 to 1999-06-04
North Oquirrh Mountains	NOQ	Utah,U.S.A.	40.6525N	112.1200W	1622	
North Padre Island, Corpus Christi	936A	Texas,U.S.A.	27.4208N	97.3091W	-3	From 2010-01-13 to 2011-11-18
North Pahroc Range	NPN	Nevada,U.S.A.	37.6529N	114.9370W	1664	
North Pahute Mesa	NPM	Nevada,U.S.A.	37.3839N	116.3230W	2250	From 1975-09-01
North Palgon	ST11	Xizang Zizhiqu,China	31.5815N	89.9806E	4738	From 1998-07-25 to 1999-06-01
North Pangkog	ST15	Xizang Zizhiqu,China	31.8347N	89.6401E	4577	From 1998-07-20 to 1999-05-31
North Pit	NPH	Hawaii,U.S.A.	19.4120N	155.2810W	1115	From 1958-07-01
North Pocatello Valley	NPI	Idaho,U.S.A.	42.1473N	112.5180W	1640	From 1975-04-01
North Pole	NP-	Northwest Territories,Canada	76.2522N	119.3717W	59	
Northport	A10A	Washington,U.S.A.	48.9813N	117.5586W	688	From 2006-08-30 to 2008-06-14
Northport	Z48A	Alabama,U.S.A.	33.3764N	87.5556W	101	From 2011-04-15 to 2013-02-03
North Rainier Mesa	NRM	Nevada,U.S.A.	37.2744N	116.2060W	2210	From 1975-09-01 to 1981-12-31
North Reno	NRR	Nevada,U.S.A.	39.5720N	119.8490W	1634	From 1964-04-09
Northridge Ranch, Floyd Knobs	R48A	Indiana,U.S.A.	38.4001N	85.8714W	243	From 2011-12-09
North Rim	U15A	Arizona,U.S.A.	36.4280N	112.2915W	2489	From 2007-05-16 to 2010-05-28
North River	NRA	Alaska,U.S.A.	63.8918N	160.5140W	105	From 1976-08-01 to 1978-08-31
North Rockhampton State High School	AUNRC	Queensland,Australia	23.3500S	150.5300E	38	From 2013-08-11
North Saanich	B009	British Columbia,Canada	48.6487N	123.4512W	15	From 2005-09-14
North Saanich	B010	British Columbia,Canada	48.6502N	123.4513W	5	From 2005-07-28
North Saanich	B011	British Columbia,Canada	48.6495N	123.4482W	22	From 2005-09-16
North Scituate	L63A	Rhode Island,U.S.A.	41.8631N	71.6095W	109	From 2013-09-11
North Serting	ST17	Xizang Zizhiqu,China	31.9388N	89.3580E	4591	From 1998-07-24 to 1999-05-30
North Stansbury	NSU	Utah,U.S.A.	40.9082N	112.5060W	1422	From 1976-10-01 to 2004-03-05
North Stonington	NSC	Connecticut,U.S.A.	41.4808N	71.8516W	110	From 1977-06-27 to 1999-01-31
North Tanaga	AK0	Alaska,U.S.A.	51.7790N	176.8800W	152	
North Tanaga	AK3	Alaska,U.S.A.	51.8067N	177.8200W	350	From 1976-10-01 to 1992-02-01
North Tanaga	AK5	Alaska,U.S.A.	51.8040N	176.8920W	0	
North Tanaga	AT3	Alaska,U.S.A.	51.8067N	177.8200W	350	From 1975-01-01 to 1976-10-31
North Vernon	Q48A	Indiana,U.S.A.	38.9295N	85.7311W	185	From 2012-06-23
Northwest Bangong	ST20	Xizang Zizhiqu,China	32.1677N	89.1416E	4584	From 1998-07-09 to 1999-05-29
Northwest Bangong Suture	ST22A	Xizang Zizhiqu,China	32.3750N	89.0998E	4763	From 1998-07-27 to 1999-06-05
North West River	NWRL	Newfoundland,Canada	53.5253N	60.1424W	6	From 2011-07-21
Northwest Twin Lake	ST31	Xizang Zizhiqu,China	33.1354N	88.8768E	4847	From 1998-07-25 to 1999-06-03
North Woods Club	NWC	New York,U.S.A.	43.8450N	74.1502W		From 1986-10-01
North Xuru	ST08	Xizang Zizhiqu,China	31.2993N	90.0314E	4899	From 1998-07-15 to 1999-06-01
Norton	NNK	Kansas,U.S.A.	39.9363N	100.0420W	732	From 1979-03-01 to 1981-12-31
Norwalk	I40A	Wisconsin,U.S.A.	43.8916N	90.6177W	419	From 2011-08-04 to 2013-06-05
Noshirotokiwa	JNTW	Akita,Japan	40.2718N	140.1613E	42	From 2012-07-01
Nottersdorf	NOTT	Bayern,Germany	49.8110N	12.1223E	490	
Nou	NOUE	Niigata,Japan	37.0480N	138.0309E	240	
Noumea	NOU	New Caledonia	22.3100S	166.4510E	105	From 1960-01-01
Noumea	ONTRN	New Caledonia	22.3070S	166.4540E	116	From 2007-04-01
Noumea	NOC	New Caledonia	22.2839S	166.4320E	5	From 1986-12-09 to 1987-10-27
Noumea	NORM	New Caledonia	22.2280S	166.4840E	97	From 2007-01-01
Noumea	MVNO	New Caledonia	22.2700S	166.4420E	0	From 2007-01-01
Noumea	LASL	New Caledonia	22.2310S	166.5400E	11	From 2007-01-01
NOV1	NOV1	Switzerland	46.3888N	6.8138E	465	From 2010-02-09
NOV2	NOV2	Switzerland	46.3718N	6.8739E	375	From 2010-02-09
NOV3	NOV3	Switzerland	46.4337N	6.9403E	1091	From 2010-02-09
Nova Friburgo	CAM4	Rio de Janeiro,Brazil	22.3568S	42.5653W	2000	
Novalja	NVLJ	Croatia	44.5635N	14.8711E	20	
Novara	NOV	Sicily,Italy	38.0278N	15.1367E	775	
Nova Varos 1	NOVS	Serbia	43.4485N	19.8216E	0	
Nova Varos 2	NVSS	Serbia	43.5077N	19.7005E	0	
Nova Xavantina-MT	NVXV	Mato Grosso,Brazil	14.7132S	52.3517W	349	From 2010-09-14 to 2012-07-24
Novellara	NOVE	Italy	44.7982N	10.7161E	16	From 2003-05-20
Novi di Modena	NDIM	Italy	44.8873N	10.8987E	18	From 2013-02-08
Novi Di Modena	ROCE	Italy	44.9000N	10.9242E	17	
Novo Acordo - TO	RET14	Tocantins,Brazil	9.9880S	47.6280W	292	From 2012-06-13
Novodnistrovsk	NDNU	Ukraine	48.5947N	27.3664E	242	From 2006-07-27
Novokhopersk	VRHR	Voronezhskaya Oblast',Russia	51.0955N	41.6246E	137	From 2003-11-01 to 2008-06-18
Novokhopyorsk	VRH	Voronezhskaya Oblast',Russia	51.2025N	41.7215E	98	From 2008-06-19
Novo Lino, Alagoas, Brazil	NVLB	Alagoas,Brazil	9.0256S	35.5721W	220	From 2011-05-22 to 2013-02-24
Novo Planalto, GO, Brazil	RET9	Goias,Brazil	13.2898S	49.7189W	275	From 2008-07-16 to 2012-12-16
Novo Progresso	NPGB	Para,Brazil	7.0454S	55.3579W	266	From 2014-04-30
Novosibirsk	NVS	Novosibirskaya Oblast',Russia	54.8406N	83.2344E	150	
Novosibirsk	NVSII	Novosibirskaya Oblast',Russia	54.8415N	83.2374E	168	From 1992-07-15
Novosibirsk, NHES, Russia	NHES	Novosibirskaya Oblast',Russia	54.8600N	82.9900E	110	From 2012-02-27
Novy Kostel	NKC	Czech Republic	50.2331N	12.4479E	564	
Nowan	KSNOW	Republic of Korea	37.6863N	127.0694E	130	From 2007-12-12
Nowhere	ST36	Xizang Zizhiqu,China	33.5216N	88.6016E	5070	From 1998-07-11 to 1999-06-04
Now Shahr	NOSH	Iran	36.7000N	51.5000E	0	
NPP	NPPZ	Armenia	40.1670N	44.1330E	945	
NRDS	ADM	Nevada,U.S.A.	36.7697N	116.2850W	1033	From 1965-01-01 to 1970-12-31
Nsakai	JNG	Nagano,Japan	36.4067N	138.1000E	930	
NSKD	NSKD	Egypt	23.6599N	32.3861E	236	
Nu aruja	NARJ	Romania	45.8323N	26.7510E	581	
Nueva Concepcion	NCS	El Salvador	14.1015N	89.1795W	290	
Nuku'alofa	NUK	Tonga	21.1320S	175.2070W	10	From 1983-09-05
Nuku Hiva Island	TAOE	Marquesas archipelago	8.8549S	140.1482W	812	From 2004-12-01
Nukus	NUKS	Uzbekistan	42.3500N	59.7700E	73	
Numazu	NUM	Shizuoka,Japan	35.1000N	138.8500E	6	
Nunatak	NTK	Alaska,U.S.A.	59.8777N	139.0350W	1050	From 1974-09-09 to 1975-10-31
Nunnelly	V47A	Tennessee,U.S.A.	35.8278N	87.5205W	240	From 2012-01-12
Nunuq Camp, NU	NUNN	Nunavut,Canada	65.2146N	91.0784W	229	From 2007-08-16
Nurata	NUT	Uzbekistan	40.5545N	65.6789E	524	From 1967-01-01
Nurek	NRK	Tajikistan	38.4000N	69.3333E		
Nurmija@14rvi	NUR	Finland	60.5090N	24.6490E	102	From 1957-01-01
Nurmija@14rvi	NE61	Finland	60.5090N	24.6490E	105	
Nurpur	NURP	Himachal Pradesh,India	32.2667N	75.8967E		
Nusco	NSC3	Italy	40.8468N	15.1222E	1300	
Nutrioso	Y19A	Arizona,U.S.A.	33.9571N	109.2541W	2448	From 2007-04-04 to 2009-02-21
Nuugaatsiaq	NUUG	Greenland	71.5386N	53.2001W	40	From 2010-07-01
Nuuk	NUUK	Komi,Russia	64.1800N	51.7300W	0	From 2010-09-09
Nuxco	NUXM	Guerrero,Mexico	17.2108N	100.7547W	80	
NWS Agricenter	NAIT	Tennessee,U.S.A.	35.1297N	89.8036W	104	
Nyala	NYA	Sudan	12.0475N	24.9022E	651	From 1980-04-17 to 1982-12-31
Nyarlorinc	PKSN	Hungary	46.8972N	19.8673E	110	
Nydri-Lefkada	NYDR	Greece	38.7135N	20.6983E	14	From 2014-09-01
Nye Farm, Monte Vista	S23A	Colorado,U.S.A.	37.7059N	106.0023W	2323	From 2008-06-07 to 2010-06-17
Nyeri	NYRK	Kenya	0.4290S	36.9370E	1902	From 1997-04-01 to 1997-09-30
Nykoping	NYK	Sweden	58.9240N	17.0910E	33	From 1980-01-01
Nylenda	INYL	Iceland	63.9740N	22.7380W	7	From 1997-02-06
Nynaeshamn	NYNU	Sweden	59.0047N	18.0042E	20	From 2002-01-25
Nyswonger Mesa	PV16	Colorado,U.S.A.	38.3112N	108.9159W	2025	
Nyvrovo	NVV	Sakhalinskaya Oblast',Russia	54.3170N	142.6170E	5	From 1981-11-01
Nyzhne Selyshche	NSLU	Ukraine	48.1976N	24.4571E	250	From 2008-01-01
Oacoma	I30A	South Dakota,U.S.A.	43.9143N	99.4262W	549	From 2009-06-16 to 2011-07-11
Oahu Island	OA-IS	Hawaii,U.S.A.	21.4575N	157.9964W	183	From 1962-03-30 to 1962-11-05
Oahu Island	OA-	Hawaii,U.S.A.	21.4575N	157.9964W	183	From 1962-03-30 to 1962-11-05
Oakdale Elementary Sch.	OK009	Oklahoma,U.S.A.	35.5813N	97.4229W	320	
Oakfield	OAK	New York,U.S.A.	43.0570N	78.3372W	259	From 1971-09-01 to 1974-11-30
Oak Flat	WOFM	California,U.S.A.	35.5354N	118.7135W	1306	
Oak Grove	OKG	Tennessee,U.S.A.	35.6260N	89.8350W	129	From 1975-06-27 to 1992-02-29
Oak Harbor	OHW	Washington,U.S.A.	48.3233N	122.5320W	54	From 1975-05-16
Oakhill	ONH	New Hampshire,U.S.A.	43.2792N	71.5056W	280	From 1975-12-01
Oakley	Q29A	Kansas,U.S.A.	38.8905N	100.9787W	895	From 2009-05-12 to 2011-03-21
Oak Ridge	ORT	Tennessee,U.S.A.	35.9095N	84.3048W	370	From 1967-06-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Oak Springs Butte	OB-NV	Nevada,U.S.A.	37.2358N	116.0525W	1731	
Oak Springs Butte	OB3NV	Nevada,U.S.A.	37.2325N	116.0542W	1609	
Oak Springs Butte	OB2NV	Nevada,U.S.A.	37.2253N	116.0578W	1542	
Oak Wood Farm, Albion	L38A	Iowa,U.S.A.	42.1410N	92.9597W	300	From 2010-11-09 to 2012-08-28
Oamaru	OMZ	South Island,New Zealand	45.0689S	170.9148E	95	From 1969-10-16 to 1990-07-31
Oasis	OAS	Antofagasta,Chile	23.2006S	69.7139W	1340	
Oasis-Bungera	OBA	Queen Mary Land	66.1667S	100.7330E	24	
Oasis Ranch, Spearman	U29A	Texas,U.S.A.	36.4519N	101.2702W	928	From 2009-04-20 to 2011-03-13
Oat Mountain	OAT	California,U.S.A.	34.3436N	118.6144W	1089	
Oaxaca	OXBJ	Oaxaca,Mexico	17.0673N	96.7240W	1700	From 2009-02-16
Oaxaca	OAX	Oaxaca,Mexico	17.0203N	96.7628W	1570	
Oaxaca	YOO	Oaxaca,Mexico	17.7500N	97.8250W	1600	
Oaxaca	LAGM	Oaxaca,Mexico	16.1042N	97.0778W	201	
Oaxaca	AZO	Oaxaca,Mexico	15.9660N	97.4080W		
Oaxaca	GUO	Oaxaca,Mexico	16.0987N	97.0610W	244	
Oaxaca	PXO	Oaxaca,Mexico	15.7478N	96.3030W	25	
Oaxaca	OXX	Oaxaca,Mexico	17.0817N	96.7233W	1730	From 1984-01-01
Obama	SWAJ	Nagasaki,Japan	32.6775N	130.2022E	257	
Oban	OBZ	Stewart Island,New Zealand	46.9034S	168.1154E	26	From 1976-09-17 to 1993-10-31
Obara	JAO	Gifu,Japan	35.2667N	137.2583E	600	
Obergurgl	OGA	Austria	46.8678N	11.0253E	1934	From 1975-09-01
Oberlin	OBK	Kansas,U.S.A.	39.9288N	100.4390W	792	From 1979-03-01 to 1981-12-31
Oberstdorf	OBER	Bayern,Germany	47.4070N	10.2934E	1000	From 2002-03-18
Obertriebel	TRIB	Sachsen,Germany	50.3517N	12.1370E	510	From 2001-12-19
Obi Garm	OBG	Tajikistan	38.7167N	69.7167E	1350	
Obihiro	OBI	Tokachi,Japan	42.9200N	143.2167E	39	
Obir	OBKA	Austria	46.5092N	14.5489E	1074	
Obispado Ponce	OBIP	Puerto Rico	18.0428N	66.6062W	102	
Obninsk	OBN	Kaluzhskaya Oblast',Russia	55.1138N	36.5687E		
Obo	OBOS	Magadanskaya Oblast',Russia	61.8000N	149.7700E	440	From 1977-01-01
Obock	OBO	Djibouti	11.9853N	43.2917E	40	From 1973-06-01
Observation Rock	OBSR	Washington,U.S.A.	46.8997N	121.8153W	2382	
Observatory	OBSV	South Africa	26.1850S	28.0740E	1815	From 2009-10-19
Observatory	POB1	Scotland,United Kingdom	55.8458N	4.4299W	34	From 1992-01-01
Observatory Ledge	OBL	Hawaii,U.S.A.	19.4175N	155.2840W	1107	
Obsidian Butte	OBB	California,U.S.A.	33.1673N	115.6370W	-59	From 1973-04-16
O'Byrne Ferry	MOYM	California,U.S.A.	37.9000N	120.5670W	176	From 1972-04-19
Ocana	OCAC	Colombia	8.2388N	73.3193W	1264	
Ocara	OCBR	Ceara,Brazil	4.5813S	38.2921W	140	From 2007-01-01
Occhiobello (RO)	CAS01	Italy	44.9293N	11.5771E	5	From 2012-05-23
Ocean Bottom Seismometer	OBS	California,U.S.A.	38.0920N	124.5440W	-3840	From 1966-01-01 to 1972-12-31
Ocean Falls	OFB	British Columbia,Canada	52.3540N	127.6843W	75	
Oceanview	VEW	South Carolina,U.S.A.	32.7177N	79.9415W	-60	
Oceanview Est	OVEH	Hawaii,U.S.A.	19.1535N	155.7653W	1378	
Ochomogo	OCM	Costa Rica	9.8948N	83.9608W	1660	
Ochoppi	061Z	Florida,U.S.A.	25.8657N	80.9070W	9	From 2012-05-14
O'Connell Ranch	HORM	California,U.S.A.	36.9172N	121.5080W	98	From 1967-06-26
O'Connell Ranch	OCR	California,U.S.A.	36.9172N	121.5080W	98	From 1967-06-26
Ocos	OCG	Guatemala	14.5655N	92.1217W	8	From 1984-03-01 to 1988-12-31
Ocos 2	OC2	Guatemala	14.5605N	92.1862W	5	From 1986-07-01
Ocozocoautla	OZC	Chiapas,Mexico	16.7850N	93.3730W	864	
Ocre	AKR	Italy	42.3045N	13.4411E	739	From 2009-05-10
Octopus Mountain	OCWA	Washington,U.S.A.	47.7489N	124.1781W	671	
Octopus West	OOW	Washington,U.S.A.	47.7367N	124.1890W	743	
OCUMARITO	OCUV	Venezuela	10.1164N	66.8000W	248	From 2004-10-08
Oda	JJO	Shimane,Japan	35.1683N	132.5033E	60	
Odare	ODAN	Nepal	26.8600N	87.3900E	2045	From 1994-04-01
Odawara	JOD	Kanagawa,Japan	35.2648N	139.0908E	360	
Odawara 2	JOD2	Kanagawa,Japan	35.2632N	139.0882E	380	
Odda	ODD	Norway	59.9500N	6.6670E	630	From 1984-11-01 to 1987-12-02
Odda	ODD1	Norway	59.9120N	6.6280E	684	From 1987-12-03
Odesa	NE56	Ukraine	46.6760N	30.8990E	30	
Odessa	ODS	Washington,U.S.A.	47.3067N	118.7450W	524	From 1969-03-01
Odessa Site #2	OD2	Washington,U.S.A.	47.3910N	118.7110W	590	From 1989-06-01
Odiongan	OTRP	Panay,Philippines	12.3620N	122.0210E	120	
Odiongan	OTPR	Luzon,Philippines	12.3620N	122.0210E	120	
Od Khalfella	OKL	Morocco	32.2030N	9.1390W	122	
Odobesti	ODBI	Romania	45.7633N	27.0558E	181	From 2007-09-13
Odobesti	ODB	Romania	45.7747N	27.0561E	140	From 1979-01-01 to 1989-01-01
ODP1027	NC27	British Columbia,Canada	47.7627N	127.7579W	-2656	From 2009-09-01
ODP889	NC89	British Columbia,Canada	48.6705N	126.8488W	-1258	From 2009-09-01
Oelwein	K39A	Iowa,U.S.A.	42.7050N	91.8878W	332	From 2011-06-11 to 2013-06-03
Oestervaala	OSTU	Sweden	60.2298N	17.1342E	100	From 2001-12-20
Ofenpass-Fuorn	FUORN	Switzerland	46.6202N	10.2635E	2333	From 2000-09-28
'Ofer	OFRI	Israel	32.6210N	34.9850E	520	
Offenburg	OFBG	Baden-Wurttemberg,Germany	48.4453N	7.9770E	237	From 2001-11-15
Office Forets	ONF	Aquitaine,France	43.0950N	0.7160W		From 1985-02-01
Offida	OFFI	Italy	42.9350N	13.6857E	320	From 2006-05-16
Oficina Alemania	OFA	Antofagasta,Chile	25.1525S	69.9500W	1000	From 1975-01-01
Ofunato	OFU	Iwate,Japan	39.0617N	141.7180E	37	
Ofunato	OFUJ	Iwate,Japan	39.0802N	141.6690E	180	From 1978-01-01
Oga	JOG	Akita,Japan	39.9043N	139.7770E	270	
Oga	OGH	Akita,Japan	39.9050N	139.7769E	354	
Oga 2	JOG2	Akita,Japan	39.9167N	139.7893E	140	
Oga3	JOG3	Akita,Japan	39.9197N	139.0807E	92	From 2012-03-22
Ogallala	OGNE	Nebraska,U.S.A.	40.9451N	102.0330W	1054	From 2007-06-28
Ogasawara	OGS	Bonin Islands,Japan	27.0568N	142.2030E	20	From 1992-06-26
Ogden Bay	OGU	Utah,U.S.A.	41.2750N	111.9440W	1506	From 1975-09-01 to 1979-05-31
Ogdensburg	ODNJ	New Jersey,U.S.A.	41.0829N	74.6056W	187	From 2007-06-23
Ogdensburg	OGD	New Jersey,U.S.A.	41.0875N	74.5958W	-367	From 1961-12-12 to 1981-12-31
Ogeu	OGE	Aquitaine,France	43.1685N	0.4733W	440	
O'Grain Ranch, Modena	R13A	Utah,U.S.A.	38.1802N	113.9691W	1969	From 2007-06-08 to 2009-03-16
Ohakea	OHWZ	North Island,New Zealand	40.2056S	175.3151E	59	From 2011-03-29
Ohasama	JOM	Iwate,Japan	39.4730N	141.2923E	210	
Ohata	JOT	Aomori,Japan	41.3820N	141.0482E	80	
Ohdaira	OHD	Iburi,Japan	42.5262N	140.8425E	250	
O'Higgins	OHC	Antarctic Peninsula	63.3167S	57.9000W	20	
Ohinepanea	OPRZ	North Island,New Zealand	37.8443S	176.5549E	134	From 2006-11-14
Ohio Geological Survey, Columbus	OGSO	Ohio,U.S.A.	40.0568N	82.9654W	268	
Ohio State University	OSUO	Ohio,U.S.A.	39.9981N	83.0109W	226	
Ohio State University--Lima	OSLO	Ohio,U.S.A.	40.7390N	84.0250W	284	
Ohio State University--Mansfield	OSMO	Ohio,U.S.A.	40.7970N	82.5790W	420	
Ohio University	OUAO	Ohio,U.S.A.	39.3220N	82.0970W	217	
Ohira	OHJ	Tochigi,Japan	36.3600N	139.6924E	250	
Ohlone	OHLN	California,U.S.A.	38.0064N	122.2730W	-196	
Ohmine	OMJ	Nagano,Japan	36.6677N	138.1820E	506	
Ohrid	OHR	FYR Macedonia	41.1114N	20.7989E	739	From 1969-01-01
Oil Creek State Park, Oil City	M54A	Pennsylvania,U.S.A.	41.5079N	79.6647W	488	From 2010-11-04
Oil house	OILH	Turkey	40.8636N	28.9921E	14	From 2006-10-04
Oil Point	OPT	Alaska,U.S.A.	59.6528N	153.2300W	625	
Oio	OIZ	North Island,New Zealand	39.0449S	175.3927E	470	From 1990-08-14 to 2004-04-27
Oishiyama	OIS	Wakayama,Japan	34.1053N	135.3270E	678	From 1966-01-07 to 1971-11-04
Oishiyama (A)	OIA	Wakayama,Japan	34.1031N	135.3200E	756	From 1971-08-10
Oishiyama (B)	OIB	Wakayama,Japan	34.0998N	135.3210E	776	From 1971-08-10
Oishiyama (C)	OIC	Wakayama,Japan	34.0989N	135.3170E	776	From 1971-08-10
Oita	OIT	Oita,Japan	33.2333N	131.6230E	5	
Oita 2	OIT2	Oita,Japan	33.2782N	131.4518E	460	From 1994-07-07
Oiwake	OIW	Nagano,Japan	36.3400N	138.5520E	1001	
Ojanco, Jaen	E033	Spain	38.3616N	2.9074W	687	From 2008-04-23 to 2010-02-28
Ojcow	OJC	Poland	50.2195N	19.7984E	391	From 1992-04-01
Ojen	OJEN	Spain	36.0993N	5.5408W	816	
Ojo de Agua	OJOS	El Salvador	13.8633N	89.2367W	645	From 1991-12-01
Ojushtada	UESV	El Salvador	13.3820N	88.7900W	401	
Okabe	OKB	Shizuoka,Japan	34.9500N	138.2538E	-30	
Okains Bay	OKCZ	South Island,New Zealand	43.7233S	173.0595E	492	From 2012-03-01
Okamoto-Ura	KV09	Miyazaki,Japan	32.0183N	130.7878E	280	
Okavango Research Center	ORC1	Botswana	19.9000S	23.5200E	954	From 2001-01-01 to 2100-12-31
Okayama	OKA1	Okayama,Japan	34.6583N	133.9180E	17	
Okayama	OKA	Okayama,Japan	34.6817N	133.9150E	5	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Okayama 2	OKA2	Okayama,Japan	34.6417N	133.9520E	77	
Okeechobee	959A	Florida,U.S.A.	27.5240N	80.8791W	23	From 2012-03-08
Okgye-meyeon	OKEB	Republic of Korea	37.6209N	128.9803E	302	From 2011-12-07
Okha	OKH	Sakhalinskaya Oblast',Russia	53.5500N	142.9330E	24	
Okhotsk	OHTR	Khabarovskiy Kray,Russia	59.3586N	143.3308E	40	
Okhotsk	OKHR	Khabarovskiy Kray,Russia	59.3610N	143.2480E	8	From 2005-10-05
Okhotsk	OKHT	Khabarovskiy Kray,Russia	59.3570N	143.2400E	2	From 2007-08-15
OKI	JOI	Shimane,Japan	36.2908N	133.2482E	106	From 2010-12-01
Okiep	OKP	South Africa,South Africa	29.6467S	17.9650E	936	
Okijuku	OKI	Ibaraki,Japan	36.0500N	140.2500E		
Okinoerabujima	JOKE	Ryukyu Islands,Japan	27.3612N	128.5708E	235	From 2010-02-01
Oklahoma City	OCO	Oklahoma,U.S.A.	35.5240N	97.4740W	351	From 1982-05-21
Oklahoma City	OKCFA	Oklahoma,U.S.A.	35.4153N	97.4514W	379	From 2008-04-22
OKLAHOMA CITY ARRAY SWEETHEART OKLAHOMA SSA	OKCSA	Oklahoma,U.S.A.	35.4055N	97.4380W	379	From 2008-04-22
Okla Sci Mus	OK004	Oklahoma,U.S.A.	35.5232N	97.4748W	352	
Okmok	OKAK	Alaska,U.S.A.	53.5790N	168.3578W	165	
Okmok Cone D	OKCD	Alaska,U.S.A.	53.4303N	168.1123W	459	
Okmok Cone E	OKCE	Alaska,U.S.A.	53.4270N	168.1643W	515	
Okmok Cone F	OKCF	Alaska,U.S.A.	53.3958N	168.1362W	685	
Okmok East Rim	OKER	Alaska,U.S.A.	53.4537N	168.0512W	956	
Okmok Mt. Idak	OKID	Alaska,U.S.A.	53.4774N	167.8162W	437	
Okmok Mt. Tulik	OKTU	Alaska,U.S.A.	53.3839N	168.0411W	646	
Okmok New Cone D	OKNC	Alaska,U.S.A.	53.4568N	168.1238W	404	
Okmok R'deer Pt	OKRE	Alaska,U.S.A.	53.5202N	168.1641W	422	
Okmok South	OKSO	Alaska,U.S.A.	53.3574N	168.1599W	460	
Okmok Steeple Pt	OKSP	Alaska,U.S.A.	53.2526N	168.2905W	608	
Okmok West Rim	OKWR	Alaska,U.S.A.	53.4347N	168.2056W	1017	
Okmok W'ng Wall	OKWE	Alaska,U.S.A.	53.4721N	168.2398W	445	
Okolona	Y40A	Arkansas,U.S.A.	34.0124N	93.2798W	117	From 2011-01-28 to 2012-11-08
Okreek	J29A	South Dakota,U.S.A.	43.4061N	100.3253W	644	From 2009-09-18 to 2011-05-05
Okuchi	JZO	Kagoshima,Japan	32.1400N	130.5985E	440	
Okuno	OKN	Shizuoka,Japan	34.9319N	139.0706E	140	
Okura	JOU	Yamagata,Japan	38.3655N	140.6640E	390	
Okushiri	OKS	Hiyama,Japan	42.0650N	139.4433E	35	From 1993-07-15
Okushiri--Matsue	JOSM	Hiyama,Japan	42.0827N	139.4752E	79	
Okushj	JOR	Hiyama,Japan	42.0667N	139.4450E	33	
Okuyama	OKY	Yamanashi,Japan	35.2273N	138.4212E	620	From 1978-06-01
Ola	OLAR	Magadanskaya Oblast',Russia	59.6078N	150.9993E	350	From 2009-12-27 to 2010-01-23
Olander Ranch, Little River	R33A	Kansas,U.S.A.	38.3081N	97.9842W	497	From 2009-10-17 to 2011-08-25
Olbia	OLB	Sardinia,Italy	40.9267N	9.4956E	5	
Oldbury-Upon-Severn	OLDB	England,United Kingdom	51.6609N	2.5515W	6	From 2009-07-14
Old Faithful	YPOF	Wyoming,U.S.A.	44.4525N	110.8413W	2260	From 1972-10-01 to 2004-03-05
Old Faithful	YFT	Wyoming,U.S.A.	44.4513N	110.8358W	2292	
Old Forge	I58A	New York,U.S.A.	43.6901N	74.9733W	599	From 2013-08-26
Old Graveyard	OGTN	Tennessee,U.S.A.	36.4200N	89.4860W	91	
Old Harbor	OHAK	Kodiak Island,U.S.A.	57.2225N	153.2875W	77	
Old House Field, Plymouth	M46A	Indiana,U.S.A.	41.4079N	86.3524W	242	From 2011-10-24
Old Mammoth Mine	OMM	California,U.S.A.	37.6123N	119.0004W	2750	From 2000-07-12 to 2009-06-26
Old Mammoth Mine - surface	OMMB	California,U.S.A.	37.6131N	119.0005W	2768	
OLDS	OLDS	Sweden	56.6190N	16.4990E	5	
Old Woman Plateau	OWUT	Utah,U.S.A.	38.7800N	111.4240W	2568	From 1989-02-08
Oleftalsperre	OLFT	Nordrhein-Westfalen,Germany	50.4939N	6.4202E	470	From 1988-06-01
Olekminsk	OLMR	Sakha,Russia	60.3756N	120.4629E	45	From 2010-06-11
Olema	OLC	California,U.S.A.	38.0397N	122.7930W	30	From 1966-12-22 to 1977-02-23
Olema	NOLM	California,U.S.A.	38.0397N	122.7930W	30	From 1977-02-23
Olintepeque	OLG	Guatemala	14.8977N	91.5077W	2855	
Oliver, Polo	L42A	Illinois,U.S.A.	42.0040N	89.6670W	257	From 2011-11-05 to 2013-11-19
Olkaria	OLK	Kenya	0.8880S	36.3240E	1751	From 1995-03-01 to 1996-10-31
Olkaria West	OLWK	Kenya	0.8380S	36.2640E	1780	From 1996-10-01 to 1997-04-30
Ollague	OLL	Tarapaca,Chile	21.1750S	68.3717W	4000	From 1965-11-01 to 1999-08-25
Olmeto	UOLM	Italy	42.9888N	12.3398E	299	From 2007-06-10
Olmsteadville	I59A	New York,U.S.A.	43.7957N	73.8744W	390	From 2013-09-18
Olmue	OLCH	Valparaiso,Chile	32.9939S	71.1728W	173	
Olney	OLIL	U.S.A.	38.7338N	88.0991W	150	
Olofstrom	OLF	Sweden	56.3080N	14.4700E	118	From 1980-01-01 to 1991-12-31
Olot	OLT	Spain	42.1443N	2.4743E	700	From 1986-01-01 to 2006-12-31
Oltu	EOLT	Turkey	40.5452N	41.9728E	1275	From 2007-01-01 to 2012-08-31
Olula del Rio	EXOR	Spain	37.3530N	2.2970W	520	
Olym-Cheeka Pk	OCP	Washington,U.S.A.	48.2979N	124.6252W	487	
Olym-F Res Ctr	OFR	Washington,U.S.A.	47.9331N	124.3960W	152	
Olympia	OLW	Washington,U.S.A.	47.0728N	122.9220W	37	From 1986-08-02
Olympic Penn College CREST BB SMO	OPC	Washington,U.S.A.	48.1001N	123.4129W	90	From 2001-05-30
Olympics--Bonidu Creek	OBC	Washington,U.S.A.	48.0353N	124.0780W	938	From 1980-07-01
Olympics--Burnt Hill	OBH	Washington,U.S.A.	47.3263N	123.8660W	383	
Olympics--Forks	OFK	Washington,U.S.A.	47.9500N	124.3580W	134	From 1980-07-01
Olympics--Lake Quinault	OLQ	Washington,U.S.A.	47.5161N	123.8088W	121	
Olympics--North River	ON2	Washington,U.S.A.	46.8808N	123.7811W	257	
Olympics--North River	ONR	Washington,U.S.A.	46.8771N	123.7710W	257	From 1980-07-01 to 2004-10-21
Olympics--Salmon Ridge	OSR	Washington,U.S.A.	47.5056N	123.9620W	815	From 1989-09-13
Olympics--Snow Dome	OSD	Washington,U.S.A.	47.8208N	123.7020W	2010	
Olympics--Sooes Peak	OSP	Washington,U.S.A.	48.2849N	124.5900W	585	From 1983-10-01
Olympics--Tyee Ridge	OTR	Washington,U.S.A.	48.0833N	124.3440W	712	
Olyphant	OLY	Arkansas,U.S.A.	35.5030N	91.4700W	236	From 1979-11-06
Omae zaki	OMA	Shizuoka,Japan	34.6017N	138.2167E	-165	
Omahuta	OUZ	North Island,New Zealand	35.2197S	173.5961E	63	From 1991-03-11
Omak	OMW	Washington,U.S.A.	48.4803N	119.5610W	421	From 1975-06-01
Omania	OMRZ	North Island,New Zealand	38.1062S	176.3717E	566	From 2007-04-04
Omchak	OCHR	Magadanskaya Oblast',Russia	61.6653N	147.8667E	820	
Ometepe	OME	Nicaragua	11.5377N	85.6837W	181	
Omihachiman	OHM	Shiga,Japan	35.1738N	136.0835E	120	
Omiya	OOM	Yamanashi,Japan	35.2167N	138.6330E		
Omolon, Chukotka	OMOL	Magadanskaya Oblast',Russia	65.2320N	160.5360E	260	From 1982-06-01 to 1993-08-01
Omsukchan	OMS	Magadanskaya Oblast',Russia	62.5150N	155.7750E	527	
Onahama	ONA	Fukushima,Japan	36.9450N	140.9070E	5	
Onalaska	E04A	Washington,U.S.A.	46.5934N	122.7204W	215	From 2005-10-27 to 2008-02-12
Onbets	JOB	Kushiro,Japan	42.9033N	143.8347E	60	
Oncesti	ONCR	Romania	46.4643N	27.2672E	234	From 2004-07-13
Onchagaon	UGON	Uttar Pradesh,India	28.3100N	77.9100E	237	From 2001-04-27
Oneida	ONTN	Tennessee,U.S.A.	36.4815N	84.4433W	635	
O'Neill	K31A	Nebraska,U.S.A.	42.6229N	98.7546W	580	From 2010-08-20 to 2012-04-26
Onerahi	ONE	North Island,New Zealand	35.7740S	174.3627E	30	From 1954-08-28 to 1985-09-26
Ongoro	ONG	Peru	15.8990S	72.4732W	880	
Ongureny	OGRR	Irkutskaya Oblast',Russia	53.6433N	107.5950E	495	
Oni	ONI	Georgia,Georgia	42.5903N	43.4525E	834	From 1967-03-02
Onida	H29A	South Dakota,U.S.A.	44.6261N	100.2125W	548	From 2009-09-11 to 2011-06-30
Onioshidashi	ODSE	Gumma,Japan	36.4219N	138.5219E	1710	
Onokovtsy	ONO	Ukraine	48.6640N	22.3330E	168	From 1963-01-01
Onsala	ONAU	Sweden	57.3965N	11.9177E	16	From 2012-08-01
Onsala	ONSU	Sweden	57.3966N	11.9260E	4	
Ontario (NY)	ONTR	New York,U.S.A.	43.2738N	77.3067W	84	
Onyx Ranch	WORM	California,U.S.A.	35.6956N	118.2425W	795	
Oodnadatta	OOD	South Australia,Australia	27.7944S	135.6880E	111	From 2013-07-17
Oohira	OHRN	Gifu,Japan	35.4877N	137.1946E	330	
Ooide	K09	Iwate,Japan	39.4742N	141.5114E	446	
Ooka	OKAH	Hawaii,U.S.A.	19.4943N	154.9240W	180	
Oologah	OLO	Oklahoma,U.S.A.	36.4573N	95.7108W	196	From 1976-11-28 to 1977-08-07
Oologah	U36A	Oklahoma,U.S.A.	36.3927N	95.7325W	187	From 2010-06-19 to 2012-02-12
Oonami East	KV05	Kagoshima,Japan	31.9217N	130.8586E	1300	
Oonami West	KV03	Kagoshima,Japan	31.9217N	130.8425E	1188	
Oonodaira	K10	Iwate,Japan	39.4958N	141.5147E	616	
Ooshika	OOS	Nagano,Japan	35.5797N	138.0488E	805	
Ootomari	OOT	Sakhalinskaya Oblast',Russia	46.6500N	142.7670E	36	
Opal Mound	OPL	Utah,U.S.A.	38.4817N	112.8720W	1766	
Opana	OPA	Hawaii,U.S.A.	21.6872N	158.0097W	138	From 1965-04-01
Opelika	151A	Alabama,U.S.A.	32.5269N	85.3267W	211	From 2012-01-19 to 2013-08-09
Opiter	BOPT	Belgium	51.1118N	5.6350E	51	From 2007-03-06
Oploo	OPLO	Netherlands	51.5888N	5.8121E	0	
Oppeano	OPPE	Italy	45.3082N	11.1724E	20	From 2009-09-24
Oppenau	OPP	Baden-Wurttemberg,Germany	48.4972N	8.1868E	412	From 2008-04-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Oracle	117A	Arizona,U.S.A.	32.5716N	110.7393W	1544	From 2007-04-06 to 2008-12-03
Oran	ORA	Buryatiya,Russia	55.9300N	113.6700E	705	
Oran	USTO	Algeria	35.7333N	0.5500W	0	
Orange	ORNG	New South Wales,Australia	33.3019S	149.0937E	850	From 2011-05-02
Orangeburg	OSC	South Carolina,U.S.A.	33.5397N	80.8250W	60	
Orangeburg	OSB	South Carolina,U.S.A.	33.5472N	80.8444W	91	From 1977-04-02
Orange Hill	OHS	St Vincent,Saint Vincent and the Grenadines	13.3170N	61.1480W	274	
Orange Park	557A	Florida,U.S.A.	30.0160N	81.7291W	24	From 2012-02-05
Orbe	ORB	Switzerland	46.7167N	6.5167E		
Orbita	ORBT	Magadanskaya Oblast',Russia	59.7234N	151.0082E	148	From 2009-12-27 to 2010-02-26
Orcadas	ORCD	South Orkney Islands	60.7381S	44.7361W		
Orchard Mesa	OMCO	Colorado,U.S.A.	39.0270N	108.5170W	1460	
Orchilla, El Hierro	CORC	Canary Islands,Spain	27.7047N	18.1448W	97	From 2011-07-01
Ordiarp	ORDF	Aquitaine,France	43.2135N	0.9357W	270	From 1997-10-28
Ordubad	ORD	Azerbaijan	38.9280N	45.9940E	945	From 2011-11-30
Ordu-Boztepe	ORDU	Turkey	40.9910N	37.8571E	526	From 2010-12-03
Oregon House	AOHM	California,U.S.A.	39.3753N	121.2560W	457	From 1977-02-14
Orenburg	ORR	Orenburgskaya Oblast',Russia	51.6184N	54.7530E	91	From 2004-10-26
Orenburg-2	OR2	Orenburgskaya Oblast',Russia	51.7356N	55.0319E	84	From 2007-08-31
Orenburg-3	OR3	Orenburgskaya Oblast',Russia	51.9005N	54.4098E	188	From 2008-07-17
Orenkoy-Mersin	OREN	Turkey	36.2077N	33.4586E	54	From 2011-07-01
Oreshnoe	ORHR	Krasnoyarskiy Kray,Russia	55.3020N	93.6650E	444	From 2003-03-07
Organos	IIO	Tlaxcala,Mexico	19.5915N	98.7225W	2940	
Organ Pipe National Monument, Ajo	214A	Arizona,U.S.A.	31.9559N	112.8115W	543	From 2007-05-07
Organya	ORG	Spain	42.2278N	1.3322E	740	
Organya	CORG	Spain	42.2303N	1.3176E	716	
Orgiva	ORGV	Spain	36.8572N	3.4322W	1600	
Orhaneli	ORLT	Turkey	40.0460N	28.8960E	649	
Orhaniye	ORH	Turkey	40.8602N	30.0707E	320	From 1995-01-01
Oricopia Mountain	ORCC	California,U.S.A.	33.5662N	115.7692W	1087	
Orie	ORY	Krasnoyarskiy Kray,Russia	55.0031N	95.1089E	378	From 2004-03-19
Oriolo Calabro	ORI	Italy	40.0635N	16.4492E	375	
Oriolo Calabro	OR1	Italy	40.0635N	16.4492E	375	
Oris-en-Rattier	ORIF	Rhone-Alpes,France	44.9183N	5.8800E	1082	From 1996-04-03
Orista	CORI	Spain	41.9735N	2.0499E	331	From 2006-02-01
Oritupano	ORIV	Venezuela	9.0700N	63.4090W	123	From 2002-05-06
Orjiva, Granada	E007	Spain	36.8605N	3.4291W	1289	From 2007-09-13 to 2009-06-26
Orkelljunga	ORK	Sweden	56.2680N	13.2620E	96	From 1980-01-01 to 1991-12-31
Orlando	OR-FL	Florida,U.S.A.	28.4669N	81.2214W	20	From 1963-05-14 to 1963-09-15
Orlando	OR-	Florida,U.S.A.	28.4669N	81.2214W	20	From 1963-05-14 to 1963-09-15
Orleans, Heritage Park	ORHO	Ontario,Canada	45.4563N	75.5367W	51	From 2007-06-19
Orleans, Innes Road, Ontario	ORIO	Ontario,Canada	45.4515N	75.5110W	74	From 2008-06-19
Orleans Mountain	KOMM	California,U.S.A.	41.2788N	123.4520W	1181	
Orlik	ORL	Buryatiya,Russia	52.5389N	99.8100E	1360	
Ormoc	OCLP	Leyte,Philippines	11.0510N	124.6090E	130	
Ormstown	G58A	Quebec,Canada	45.1492N	74.0540W	53	From 2013-07-25
Oroboro, Fairlee	I61A	Vermont,U.S.A.	43.9323N	72.2087W	287	From 2013-09-03
Orongorongo Tunnel	OTW	North Island,New Zealand	41.2758S	175.0044E	220	From 1992-07-28 to 2004-06-08
Orono	ORNO	Maine,U.S.A.	44.8920N	68.6720W	100	From 2008-12-01
Oropa	ORO	Italy	45.6275N	7.9814E	1160	
Oropa	ORX	Italy	45.6325N	7.9817E	1250	
Orotukan	ORTS	Magadanskaya Oblast',Russia	62.2600N	151.3400E	470	
Oroville	ORV	California,U.S.A.	39.5545N	121.5004W	334	From 1963-01-01
Oroz-Betelu	EORO	Spain	42.8926N	1.3095W	880	From 2007-04-27
Orsara di Puglia	FG5	Italy	41.2825N	15.2678E	660	
Ortayu	OTUK	Kazakhstan	48.2445N	72.3378E	602	From 2010-02-10
Ortega, Tolima	ORTC	Colombia	3.9090N	75.2460W	446	From 2013-06-20
Orti	OII	Italy	38.1533N	15.6892E		
Ortiz Mountain	OTZ	New Mexico,U.S.A.	35.7603N	106.1730W	2091	From 1976-09-17
Ortiz Mt. (NFS), Santa Fe National Forest	V23A	New Mexico,U.S.A.	35.7452N	106.1833W	1991	From 2008-05-05 to 2010-04-08
Ortonville	G33A	Minnesota,U.S.A.	45.1946N	96.4383W	338	From 2010-10-07 to 2012-07-22
Orto-Tokoy	OTK	Kyrgyzstan	42.3460N	76.0170E	1700	
Orzinuovi	ORZI	Italy	45.4056N	9.9307E	83	From 2008-04-24
Os	OSGS	Norway	60.1900N	5.4600E	30	From 2002-01-01
Osaka	OSK	Osaka,Japan	34.6117N	135.6600E	472	
Osaka	OSA	Osaka,Japan	34.6783N	135.5220E	13	
Osakifurukawaosaki	JOFO	Miyagi,Japan	38.6022N	140.9112E	29	From 2012-11-01
Osborn	OSBY	New York,U.S.A.	41.3603N	73.9239W	212	
Oschiri	OSKI	Italy	40.8210N	9.1083E	896	From 2006-12-12
Oseberg A Platform	OSG	Norway	60.4970N	2.8760E	-100	From 1988-01-01 to 2003-04-05
Osh	OHH	Kyrgyzstan	40.5240N	72.7850E	980	
Oshima	OSHJ	Bonin Islands,Japan	34.7467N	139.3670E	76	From 1991-12-18
Oshima	OSH	Bonin Islands,Japan	34.7617N	139.3783E	191	
O shima 2	JIM	Bonin Islands,Japan	34.7617N	139.3767E	190	
Oshima 3	JIM2	Bonin Islands,Japan	34.7175N	139.4312E	405	
Oshimamatsumae	JOMM	Hokkaido,Japan	41.5248N	140.0069E	27	From 2013-07-01
Osimo	MOSM	Italy	43.4900N	13.4940E	117	From 1998-03-28
Osimo (AN)	AD06	Italy	43.4944N	13.4366E	112	From 2010-03-30
Osito Audit: Castaic Lake Dam, Castaic	OSI	California,U.S.A.	34.6145N	118.7235W	718	From 1995-06-28
Oskarshamn	OSKU	Sweden	57.1947N	16.0994E	100	From 2002-11-01
Oslo	OO-	Norway	61.0547N	10.8661E	555	
Oslo	OSL	Norway	59.9372N	10.7227E	70	
Oslo	OO-NW	Norway	61.0547N	10.8661E	555	
Osmaniye	KAMA	Turkey	37.1861N	36.6677E	983	From 2009-10-06
Osmaniye	OSMT	Turkey	40.6022N	29.7002E	820	From 1993-01-01
Os-Marcillon	OSML	Aquitaine,France	43.3892N	0.5928W	105	
Osorio	EOSO	Spain	28.0718N	15.5525W	760	
Osorno	OSCH	Valdivia,Chile	40.5758S	73.1276W	45	
Ospenovka	USP	Kazakhstan	43.2669N	74.4997E	740	
Osses	OSSF	Aquitaine,France	43.2560N	1.2618W	240	From 1997-06-01
Ossining	OSNY	New York,U.S.A.	41.2117N	73.8283W	122	
Ossora	OSSR	Kamchatskaya Oblast',Russia	59.2500N	163.0600E	5	
Ostas	OSTC	Czech Republic	50.5565N	16.2156E	554	From 2005-07-01
Ostende	BOST	Belgium	51.2382N	2.9387E	3	From 2009-05-01
Ostiglia (MN)	MIR07	Italy	45.0810N	11.1301E	13	From 2012-05-23
Ostrava-Krasne	OKC	Czech Republic	49.8375N	18.1472E	272	From 1994-01-01
Ostromysovka	OSMR	Sakhalinskaya Oblast',Russia	47.2450N	143.0100E	30	From 2004-11-10
Ostuacan	OSCM	Chiapas,Mexico	17.4056N	93.3347W		
Ostula	OSM	Michoacan,Mexico	18.4972N	103.4719W		
Oswego	OSWG	New York,U.S.A.	43.5170N	76.4162W	84	
OT011	OT011	Ontario,Canada	45.3939N	75.7149W	94	From 2005-10-21
Otahua Downs	ODZ	South Island,New Zealand	45.0440S	170.6446E	274	From 1990-08-31
Otaki Gorge	OGWZ	North Island,New Zealand	40.8167S	175.1704E	206	From 2007-09-24
Otama	JFT	Fukushima,Japan	37.5182N	140.3367E	350	
Otara	OTAZ	North Island,New Zealand	36.9494S	174.9249E	140	From 1996-09-17 to 2009-12-23
Otavalo	AOTA	Ecuador	0.2401N	78.2557W	2529	From 2011-03-31
Otavalo	OTAV	Ecuador	0.2376N	78.4508W	3492	
Otepa	OTP	Tuamotu,French Polynesia	18.1675S	140.8570W	2	From 1976-01-01
Oterleek	OTL3	Netherlands	52.6289N	4.8227E	-154	From 1995-04-21
Oterleek	OTL1	Netherlands	52.6289N	4.8227E	-54	From 1995-04-21
Oterleek	OTL	Netherlands	52.6299N	4.8226E	-3	
Oterleek	OTL4	Netherlands	52.6289N	4.8227E	-204	From 1995-04-21
Oterleek	OTL2	Netherlands	52.6289N	4.8227E	-104	From 1995-04-21
Othello	OTH	Washington,U.S.A.	46.7390N	119.2160W	384	From 1969-03-01
Othello	OT2	Washington,U.S.A.	46.7214N	119.2350W	355	From 1988-12-01 to 2001-11-01
Othello 3	OT3	Washington,U.S.A.	46.6690N	119.2330W	322	
Otiai	OTI	Sakhalinskaya Oblast',Russia	47.3333N	142.7830E		
Otisfield	I63A	Maine,U.S.A.	44.0505N	70.5809W	177	From 2013-09-27
Ottawa	OTT	Ontario,Canada	45.3942N	75.7167W	77	From 1906-01-01
Otterbach	OTTER	Switzerland	47.5778N	7.6038E	298	From 2006-01-01
Otterbach 1 (BS)	OTER1	Switzerland	47.5777N	7.6037E	-206	From 2009-10-01
Otterbach 2 (BS)	OTER2	Switzerland	47.5791N	7.6046E	-2487	From 2006-10-01
Otter Creek Ranch, Eureka	S35A	Kansas,U.S.A.	37.6821N	96.3190W	334	From 2010-03-26 to 2012-03-04
Otter Lake	F55A	Quebec,Canada	45.8338N	76.3510W	218	From 2012-11-08
Otter Rapids	OTRO	Ontario,Canada	50.1818N	81.6286W	109	
Oturere	OTVZ	North Island,New Zealand	39.1631S	175.6651E	1506	From 2004-11-18
Ouanaham	OUA	Loyalty Islands,New Caledonia	20.7747S	167.2440E	29	
Oud Koma	ODK	Djibouti	11.5932N	42.4901E	100	From 1987-01-01
Oued Fodda	OFD	Algeria	36.0667N	1.6000E	377	From 1935-01-01 to 1982-12-31

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Ouen Island, New Caledonia	OUENC	New Caledonia	22.4183S	166.8416E	115	From 2011-08-09
Ouen Toro	ONTNC	New Caledonia	22.3073S	166.4540E	107	
Oujda	OUJ	Morocco	34.6570N	1.9010W	600	
Oukaimeden	OUK	Morocco	31.2090N	7.8680W	2720	
Oulainen	OUFX	Finland	64.3645N	24.7031E	90	From 2011-02-10
Oulanka, Finland	OLKF	Finland	66.3206N	29.4003E	310	From 2014-01-01
Oulhaca	OLHC	Algeria	35.2500N	1.4200W	600	From 2005-01-01
Oulu	OUL	Finland	65.0853N	25.8964E	60	
Oum El Arais	OAR	Tunisia	34.5317N	8.3968E	475	
Oura	ORJ	Shiga,Japan	35.5171N	136.1197E	150	
Ouranopolis	OUR	Greece	40.3344N	23.9819E	60	From 1981-01-01
Ouri	JIO	Miyagi,Japan	38.4543N	141.3488E	40	
Outingdale	AODM	California,U.S.A.	38.6148N	120.7280W	520	From 1976-10-19
Outlet	OUT	Hawaii,U.S.A.	19.3897N	155.2820W	1038	From 1958-07-01
Outpost Mountain	YUK6	Yukon Territory,Canada	60.9432N	138.3626W	2233	From 2010-08-29
Ovalau	OVA	Fiji	17.6862S	178.7837E	439	From 1979-10-01
Ovalle	OVCH	Coquimbo,Chile	30.6080S	71.2010W	222	
Ovando	OVMT	Montana,U.S.A.	47.0643N	112.9967W	1494	
Ova Spin	OSS	Switzerland	46.6868N	10.1437E	1700	From 1982-01-01 to 2002-01-02
Over Castle Rock	OCN	New York,U.S.A.	43.8848N	74.5293W	701	From 1974-07-01 to 1979-07-31
Overton	OVE	Nevada,U.S.A.	36.5311N	114.4420W	395	From 1940-07-01 to 1952-07-31
Owase	OWA	Mie,Japan	34.0667N	136.1950E	17	
Owens Crossroads	OCA	Alabama,U.S.A.	34.6138N	86.4352W	250	
Owens Ranch, Tucumcari	W26A	New Mexico,U.S.A.	35.0891N	103.7656W	1314	From 2008-05-08 to 2010-04-09
Owens River	ORC	California,U.S.A.	37.6353N	118.6560W	2301	From 1979-11-01
Owia	SOA	St Vincent,Saint Vincent and the Grenadines	13.3735N	61.1486W	40	
Owl Hoot	OHTN	Tennessee,U.S.A.	36.1500N	89.5200W	82	
Oxbow	E63A	Maine,U.S.A.	46.4220N	68.4220W	238	From 2013-09-23
Oxenhope Moor	OMWY	England,United Kingdom	53.7909N	1.9799W	438	
Oxford	757A	Florida,U.S.A.	28.9413N	82.0685W	22	From 2012-02-12
Oxford	U58A	North Carolina,U.S.A.	36.3944N	78.5493W	169	From 2013-03-21
Oxford	OXZ	South Island,New Zealand	43.3259S	172.0383E	319	From 2009-03-14
Oxford	OXD	England,United Kingdom	51.7667N	1.2500W	61	
Oxford	OXF	Mississippi,U.S.A.	34.5118N	89.4092W	101	From 1993-09-17
Ox Mountain	OXMT	California,U.S.A.	37.4994N	122.4243W	14	
Oxtotitlan	OXM	Mexico D.F.,Mexico	19.2972N	99.6883W	2700	
Oya 1	OYT	Hyogo,Japan	35.3339N	134.6645E	260	
Oya 2	OYT2	Hyogo,Japan	35.3218N	134.6658E	230	
Oyama	OYM	Kanagawa,Japan	35.4201N	139.2430E	600	From 1970-04-01
Ozalj	OZLJ	Croatia	45.6153N	15.4673E	0	From 2011-01-10
Ozark Folk Center	FCAR	Arkansas,U.S.A.	35.8898N	92.1242W	190	
Ozernaya	AY2S	Sakha,Russia	63.7500N	146.1100E	875	From 1971-06-01 to 1971-12-31
Ozernaya	OZE	Buryatiya,Russia	56.3000N	113.9800E	620	
Ozero (Kronotsky)	OZRR	Kamchatskaya Oblast',Russia	54.6920N	160.3920E	391	
Ozhidaevo	OZHR	Sakhalinskaya Oblast',Russia	47.0400N	143.3900E	-111	
Ozhidaevo	OJD4	Sakhalinskaya Oblast',Russia	47.0286N	142.3989E	230	From 1996-01-01
Ozolo	OZOL	Trentino,Italy	46.4045N	11.0517E	1231	From 2000-12-31
PA01 North	PA01	British Columbia,Canada	48.6526N	123.4470W	3	From 2010-12-09
PA02 Ocean	PA02	British Columbia,Canada	48.6518N	123.4489W	3	From 2010-12-09
PA03 Flamable	PA03	British Columbia,Canada	48.6517N	123.4448W	8	From 2010-12-09
PA04 Cage	PA04	British Columbia,Canada	48.6510N	123.4462W	8	From 2010-12-09
PA05 Willingdon	PA05	British Columbia,Canada	48.6497N	123.4438W	8	From 2010-12-09
PA12 Sannich	PA12	British Columbia,Canada	48.6482N	123.4496W	10	From 2010-12-09
Paamiut	PAAG	Greenland	61.9914N	49.6613W	22	
Paberze	PABE	Lithuania	55.5052N	23.9680E	53	From 2012-04-23
Paburg¯	PBUR	Lithuania	56.0236N	21.9294E	122	From 2011-11-03
Pacaembu	PCMB	Sao Paulo,Brazil	21.6071S	51.2614W	345	From 2013-11-30
Pacatuba, Sergipe, Brazil	PCTB	Sergipe,Brazil	10.4135S	36.7023W	67	From 2011-06-18 to 2013-02-25
Pacaya	PCG	Guatemala	14.3938N	90.6075W	2100	From 1987-03-01
Pacayal	PACA	El Salvador	13.4690N	88.3233W	1123	
Pace	449A	Florida,U.S.A.	30.7596N	87.2151W	57	From 2012-01-18
PACH	PACHH	Bolivia	19.8681S	69.4157W	1620	From 1994-11-21 to 1995-07-14
Pacheco Lake	HPCM	California,U.S.A.	37.0599N	121.2758W	468	
Pacheco Lake	PCL	California,U.S.A.	37.0520N	121.2911W	125	From 1968-05-10 to 2011-07-26
Pacheco Lake	AN4*	California,U.S.A.	37.0520N	121.2911W	125	From 1968-05-10 to 2011-07-26
Pacheco Lake	HPLM	California,U.S.A.	37.0520N	121.2911W	125	From 1968-05-10 to 2011-07-26
Pacheco Peak	PACP	California,U.S.A.	37.0080N	121.2870W	844	From 2003-06-19
Pachino	HPAC	Sicily,Italy	36.6965N	15.1114E	19	From 2012-11-05
Pacific Creek	PACW	Wyoming,U.S.A.	43.9023N	110.4850W	2140	From 1986-01-01
Pacitan	PCJI	Jawa,Indonesia	8.1947S	111.1771E	0	From 2007-12-01
Packway	APAE	England,United Kingdom	52.3006N	1.4782E	58	From 1984-01-01
Pacto, Paraˆ›so	PAC1	Ecuador	0.2661N	78.7914W	1257	From 2012-08-03
Padang	PDSI	Sumatera,Indonesia	0.9118S	100.4617E	276	From 2005-01-01
Padang Panjang	PPI	Sumatera,Indonesia	0.4568S	100.3970E	0	
Padua	PAD	Italy	45.4086N	11.8861E	12	
Paducah	PAKY	Kentucky,U.S.A.	37.0570N	88.7720W	76	From 1990-10-01
Paducah	T45A	Kentucky,U.S.A.	37.0196N	88.6447W	119	From 2011-11-17
Paea	PAE	Tahiti,French Polynesia	17.6619S	149.5800W	10	
Paeroa	PATZ	North Island,New Zealand	38.3795S	176.2585E	940	From 1987-05-01 to 2007-04-04
Paez Belalcazar	MARP	Colombia	2.8430N	75.9550W	2207	
Pagadian	PAGZ	Mindanao,Philippines	7.8480N	123.3820E	50	
Pagan	PAGN	Mariana Islands	18.0750N	145.7310E	540	From 1992-07-01
Pagan Volcano	PAGV	Mariana Islands	18.1250N	145.7700E	10	From 1992-07-01
Page	PGAZ	Arizona,U.S.A.	36.9057N	111.4620W	1272	
Pagerwojo	PWJI	Jawa,Indonesia	8.0220S	111.8039E	0	From 2007-12-01
Pagoda	O21A	Colorado,U.S.A.	40.2149N	107.4705W	2343	From 2007-11-10 to 2009-11-05
Pagosa Springs	PGS	Colorado,U.S.A.	37.2653N	107.0210W		
Pahaquarry	PQN	New Jersey,U.S.A.	41.0073N	75.0858W	229	
Pahoa	PAH	Hawaii,U.S.A.	19.4950N	154.9470W	205	From 1958-01-01 to 1969-01-01
Pahoa Fire House	PFH	Hawaii,U.S.A.	19.4969N	154.9490W	201	From 1986-01-01
Pah Rah Range	PAHR	Nevada,U.S.A.	39.7065N	119.3842W	1500	
Pahroc Range	PRN	Nevada,U.S.A.	37.4067N	115.0508W	1402	
Pahute Mesa	PMN	Nevada,U.S.A.	37.2807N	116.3020W	2141	From 1973-06-05 to 1973-06-22
Pahute Mesa	LO2	Nevada,U.S.A.	37.1979N	116.3790W	2019	From 1973-05-01 to 1975-12-31
Pahute Mesa Site	PH3NV	Nevada,U.S.A.	37.3725N	116.5286W	1603	
Pahute Mesa Site	PH4NV	Nevada,U.S.A.	37.2556N	116.4636W	1917	
Pahute Mesa Site	PH2NV	Nevada,U.S.A.	37.2422N	116.4644W	1908	
Pahute Mesa Site	PH-NV	Nevada,U.S.A.	37.2983N	116.5481W	1792	
Paiam	PIAM	Papua New Guinea	5.4650S	143.1490E	2220	
Paila	NASE	Xizang Zizhiqu,China	31.9886N	91.7057E	4653	From 1998-08-07 to 1999-05-27
P Aileron	PAI	Martinique,France	14.8044N	61.1564W	844	
Pajala	PAJU	Sweden	67.0240N	23.1130E	500	From 2004-04-17
Pakayacu	PKYU	Ecuador	1.6477S	77.5950W	391	From 2012-11-30
Pak Chong	PCT	Thailand	14.6808N	101.4110E	360	From 1978-10-01
Pakhachi	PCHS	Kamchatskaya Oblast',Russia	60.5580N	169.1250E	5	
Pakihiroa	PKGZ	North Island,New Zealand	37.8881S	178.0768E	708	From 2010-06-22
Pakoon Wash	U13A	Arizona,U.S.A.	36.4151N	113.9653W	712	From 2007-02-16 to 2008-11-12
Pala Acreide	HPAR	Sicily,Italy	37.0750N	14.9980E	600	From 1994-05-01
Palacio de Doana, Huelva	E010	Spain	36.9886N	6.4431W	52	From 2007-09-24 to 2009-06-24
Palaiochora Chania	PLC1	Crete,Greece	35.2314N	23.6285E	7	From 2011-10-01
Palaiochora Chania	KNDR	Crete,Greece	35.2340N	23.6857E	25	From 2006-12-01
Palaion Diasellon	DSL	Greece	39.1338N	21.0963E	525	From 2008-02-22
Pala-Maneri	PLMI	Uttar Pradesh,India	30.8417N	78.6292E	1640	From 1987-10-01
Palana	PALN	Kamchatskaya Oblast',Russia	59.0890N	159.9660E	38	From 2008-11-13
Palana	PALS	Kamchatskaya Oblast',Russia	59.0930N	159.9630E	5	From 1994-03-01
Palanan	PALP	Luzon,Philippines	17.0630N	122.4250E	50	
Palangkaraya	PKKI	Kalimantan,Indonesia	2.2410S	113.9721E	69	
Palangkaraya	PLKI	Kalimantan,Indonesia	2.2262S	113.9453E	70	From 2005-01-01
Palata Pepoli (BO)	T0811	Italy	44.7838N	11.2265E	9	From 2012-05-20 to 2012-07-31
Palau	PALU	Caroline Islands,Palau	7.3436N	134.4741E	10	
Palau	PLA	Caroline Islands,Palau	7.3333N	134.4830E	390	
PALAU INFRASONIC ARRAY REFERENCE POINT	I39PW	Caroline Islands,Palau	7.5355N	134.5470E	100	From 2005-08-10
Palau Saverdera	CPAL	Spain	42.3116N	3.1636E	223	From 2007-03-01
Palayan	PCPH	Luzon,Philippines	15.5620N	121.0960E	7	
Palazzolo	PZI	Sicily,Italy	37.0571N	14.9476E	603	From 1983-10-01
Palazzo San Gervasio	PALZ	Italy	40.9441N	15.9602E	450	From 2006-08-07
Palemas	MPAL	Morocco	35.2250N	3.9420W	412	From 1994-02-15
Palembang	PMBI	Sumatera,Indonesia	2.9270S	104.7720E	30	From 2005-01-01 to 2009-05-29
Paleo Inst,Ithaca	PRNY	New York,U.S.A.	42.4666N	76.5361W	205	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Palermo	PLR	Sicily,Italy	38.1440N	13.3477E	60	
Palermo	PAM	California,U.S.A.	39.4488N	121.5200W		From 1976-01-01
Palgon	ST10	Xizang Zizhiqu,China	31.4928N	90.0081E	4670	From 1998-07-15 to 1999-06-01
Palhano	ET03	Ceara,Brazil	4.7808S	38.0388W	34	
Paliouri	PAIG	Greece	39.9272N	23.6797E	140	From 1981-01-01
Paliouri	PLR1	Greece	39.9363N	23.6767E	140	From 2014-01-21
Palisades	PAL	New York,U.S.A.	41.0055N	73.9079W	66	From 1980-01-01
Palizzi	MPAZ	Sicily,Italy	37.9531N	16.0067E	496	From 2006-09-20
Pallekele	PALK	Sri Lanka	7.2728N	80.7022E	460	
Palliser	PLWZ	North Island,New Zealand	41.5692S	175.2548E	638	From 2007-02-20
Palma Real	PALR	Venezuela	11.0000N	63.9110W	920	From 1984-01-01
Palmaria, Porto Venere	PLMA	Italy	44.0498N	9.8507E	22	From 2010-03-28
Palmar Norte	EDPN	Costa Rica	8.9620N	83.4570W	47	
Palmasola	PSM	Oaxaca,Mexico	16.7048N	95.0410W	750	From 1990-01-01
Palm-Egli Farm, Albin	M25A	Wyoming,U.S.A.	41.4347N	104.0551W	1636	From 2008-11-13 to 2010-10-09
Palmela	PLML	Portugal	38.5550N	8.9033W	216	
Palmer	PLMR	South Australia,Australia	34.8728S	139.1508E	138	From 2006-08-10
Palmer	PMR	Alaska,U.S.A.	61.5922N	149.1310W	100	From 1967-09-01
Palmer East	PME	Alaska,U.S.A.	61.6283N	149.0317W	232	From 1980-09-01 to 1999-08-25
Palmer High School	PHSA	Alaska,U.S.A.	61.6089N	149.1487W	144	
Palmer Road	PREZ	North Island,New Zealand	39.3421S	174.1590E	558	From 2010-02-23
Palmer South	PMS	Alaska,U.S.A.	61.2447N	149.5610W	716	From 1967-05-25 to 2005-08-05
Palmer Station	PMSA	Antarctic Peninsula	64.7742S	64.0490W	10	From 1993-03-01
Palmer USGS	PLRM	Alaska,U.S.A.	61.5922N	149.1310W	100	From 1984-09-20
Palmer West	PWA	Alaska,U.S.A.	61.6508N	149.8790W	137	From 1967-05-23 to 2005-08-05
Palmi	ME03	Italy	38.3301N	15.8374E	567	From 2007-10-20 to 2009-02-05
Palmichal	PALM	Venezuela	10.2046N	64.4388W	1100	From 1984-01-01 to 1999-08-25
Palm Springs	PSP	California,U.S.A.	33.7938N	116.5490W	195	
Palmyra I.	PR-	Line Islands,Kiribati	5.8881N	162.0942W	3	From 1962-04-06 to 1962-11-04
Palmyra Island	PR-IS	Line Islands,Kiribati	5.8881N	162.0942W	3	From 1962-04-06 to 1962-11-04
Palo	PLP	Leyte,Philippines	11.1650N	124.9790E	133	From 1975-10-01
Palo Alto--Branner	PAC	California,U.S.A.	37.4167N	122.1820W	83	From 1927-11-21 to 1965-05-31
Palomar	PLM	California,U.S.A.	33.3534N	116.8620W	1692	From 1939-09-07
Palomares Rd	LT18	California,U.S.A.	37.6313N	121.9560W	463	From 1969-06-29 to 1980-01-23
Palomares Road	CPLM	California,U.S.A.	37.6375N	121.9610W	317	From 1980-01-23 to 2008-07-16
Palomares Road	PLC	California,U.S.A.	37.6313N	121.9560W	463	From 1969-06-29 to 1980-01-23
Palomo	PALO	Costa Rica	9.7850N	83.8203W	1440	
Palomo	PAL1	Costa Rica	9.7830N	83.8240W	1500	
Palora	PALA	Ecuador	1.6917S	77.9562W	908	
Palos Verdes	PVR	California,U.S.A.	33.7583N	118.3570W	340	From 1956-03-21 to 1981-09-30
Palos Verdes	PVRC	California,U.S.A.	33.7522N	118.3710W	183	From 1981-09-30
Palos Verdes	PVPS	California,U.S.A.	33.7867N	118.4030W		
Palo Verde	PLVR	Costa Rica	10.3480N	85.3510W	1475	
Palo Verde	A494	Costa Rica	10.3465N	85.3503W	0	From 2000-01-01
Palu	PLU	Turkey	38.7000N	39.9308E	979	From 1973-09-12
Palu	PCI	Sulawesi,Indonesia	0.9054S	119.8366E	150	From 1981-01-01
Palub	PALB	Xizang Zizhiqu,China	29.6533N	91.1330E	3675	From 2004-08-27
Pamatai, Papeete	PPTF	Tahiti,French Polynesia	17.5896S	149.5652W	705	From 2009-04-25
Pamplona	EXPA	Spain	42.8140N	1.6250W	478	
Pamplona, Colombia	PAMC	Colombia	7.3395N	72.6995W	3676	From 2011-01-17
Panagyurishte	PGB	Bulgaria	42.5500N	24.1667E	775	
Panama	BASP	Panama	9.0249N	79.5536W	0	From 2008-10-16
Panamint Range	PGE	California,U.S.A.	36.3489N	117.0660W	1850	From 1987-11-28 to 1988-02-13
Panamint Range	PANV	California,U.S.A.	36.3932N	117.0990W	1697	From 1988-04-01
Panarea	PLI	Sicily,Italy	38.6281N	15.0619E	98	
Panarea 2	ME12	Sicily,Italy	38.6315N	15.0700E	119	From 2007-11-06 to 2010-01-31
Panarea IE	IPAN	Sicily,Italy	38.6393N	15.0702E	30	From 1985-01-01
Panarotta	PANI	Italy	46.0501N	11.3341E	1983	From 1982-01-01
Panbari	PNBI	Assam,India	26.5333N	93.4833E	350	
Panbu Gunsar	TAGA	Xizang Zizhiqu,China	29.7400N	91.4600E	3788	From 2006-01-19
Pancar Batu	PCBI	Sumatera,Indonesia	1.8900N	98.9253E	1000	
Pancar Gunung	PACI	Jawa,Indonesia	6.5928S	106.9100E	850	From 1991-10-01
Panda Hill	PDHT	Tanzania,United Republic of Tanzania	8.9832S	33.2417E	1340	From 1992-06-08
Pandan	PAP	Panay,Philippines	11.7335N	122.1150E		From 1977-04-28 to 1980-04-30
Pandan	PDP	Panay,Philippines	11.7143N	122.0962E		From 1980-04-01
Pan de Azucar	AC01	Atacama	26.1479S	70.5987W	346	From 2012-12-30
Panekirikiri	PAHZ	North Island,New Zealand	38.8574S	177.0544E	563	From 1987-03-24 to 2000-12-05
Pangkalan Bun	PBKI	Kalimantan,Indonesia	2.7047S	111.6697E	74	From 2005-01-01
Pangkal Pinang	PPBI	Bangka,Indonesia	2.1616S	106.1364E	64	From 2005-01-01
Pangkog	ST14A	Xizang Zizhiqu,China	31.7986N	89.6611E	4511	From 1998-07-25 to 1999-01-05
Panguitch	S15A	Arizona,U.S.A.	37.6761N	112.3627W	2102	From 2007-05-15 to 2008-11-15
Panguna	PAA	Bougainville,Papua New Guinea	6.3006S	155.4910E	699	From 1972-12-04
Panhandle Gap, Mount Rainier	PANH	Washington,U.S.A.	46.8590N	121.6426W	2109	
Panimavida	PAN	Linares,Chile	35.7517S	71.4032W	175	
Pank, Wackersville	P58A	Maryland,U.S.A.	39.4891N	77.3005W	139	From 2013-06-29
Panormos, Dorida, Greece	PANR	Greece	38.3735N	22.2497E	149	From 2001-06-08
Pansheti	PNSH	Georgia	42.6351N	44.6163E	1794	From 2014-05-22
Panska Ves	PVCC	Czech Republic	50.5282N	14.5689E	311	
Pantabangan	PEP	Luzon,Philippines	15.8110N	121.1070E		
Pantelleria	PTS	Sicily,Italy	36.8111N	11.9961E	100	
Pantelleria Cuddia di Mida	PTMD	Sicily,Italy	36.7884N	11.9933E	615	From 2010-07-13
Paolisi	PAOL	Italy	41.0312N	14.5675E	715	From 2010-02-26
Papamoa	PARZ	North Island,New Zealand	37.7319S	176.2902E	180	From 1995-03-24 to 2002-12-08
Papanoa	PPNM	Guerrero,Mexico	17.3005N	101.0378W	260	
Papa Simpson, Farm, Arcadia	141A	Louisiana,U.S.A.	32.6046N	92.9049W	91	From 2011-02-14 to 2012-11-12
Papayo	PPOM	Guerrero,Mexico	17.0200N	100.2400W	100	
Papeete	THT	Tahiti,French Polynesia	17.5690S	149.5740W	337	
Papeete	PPT	Tahiti,French Polynesia	17.5682S	149.5761W	258	
Papeete2	PPT2	Tahiti,French Polynesia	17.5896S	149.5764W	705	From 2008-11-27
Papenoo	PPN	Tahiti,French Polynesia	17.5308S	149.4320W	100	
Paphos	PPCY	Cyprus	34.8847N	32.3450E	60	From 1987-02-01
Papudo	PACH	Valparaiso,Chile	32.5370S	71.4370W	692	
Paracas	PCS	Peru	13.8033S	76.2783W	100	
Parade	G28A	South Dakota,U.S.A.	45.0749N	100.9161W	709	From 2009-06-11 to 2011-05-07
Paradise	PARR	Nevada,U.S.A.	38.7707N	117.8965W	1774	
Paradis Home	SHVB	British Columbia,Canada	48.4723N	123.6360W	69	From 2003-02-27
Paradox Valley	PV02	Colorado,U.S.A.	38.2073N	108.7370W	2166	
Paradox Valley	PV15	Colorado,U.S.A.	38.3418N	108.4810W	2280	
Paradox Valley	PV03	Colorado,U.S.A.	38.2543N	108.8480W	2007	
Paradox Valley	PV04	Colorado,U.S.A.	38.3934N	108.9050W	1756	
Paradox Valley	PV06	Colorado,U.S.A.	38.3325N	108.4580W	2213	
Paradox Valley	PV08	Colorado,U.S.A.	38.5763N	108.6470W	2940	
Paradox Valley	PV07	Colorado,U.S.A.	38.4380N	108.6470W	2001	
Paradox Valley	PV05	Colorado,U.S.A.	38.0782N	109.0990W	2115	
Paradox Valley	PV01	Colorado,U.S.A.	38.1344N	108.5700W	2182	
Paradox Valley	PV09	Colorado,U.S.A.	38.4987N	109.1330W	2652	
Paradox Valley	PV10	Colorado,U.S.A.	38.3763N	109.0390W	2316	
Paragould	PGA	Arkansas,U.S.A.	36.0600N	90.6200W	152	From 1974-12-28 to 1992-02-29
Paraibuna	PARB	Sao Paulo,Brazil	23.3382S	45.6217W	767	From 1993-12-01
Paraiso	PRS	California,U.S.A.	36.3317N	121.3700W	363	From 1961-01-01
P'arak'ar	PAAR	Armenia	40.1500N	44.3800E	890	From 1993-08-01
Paralimni	PARAL	Cyprus	34.9940N	34.0400E	136	From 2013-07-01
Paralimni	PHNC	Cyprus	35.0040N	34.0320E	175	From 1998-11-16
Paramo de la Osa	OSV	Venezuela	8.6410N	71.4870W	1780	
Paramo Marino	PDMV	Venezuela	8.3190N	71.8280W	2416	
Paran	PRNI	Israel	30.3519N	35.0046E	411	
Paranan	PRNN	Tocantins,Brazil	12.7200S	47.6800W	382	From 2012-06-07
Paranan- TO	RET5	Tocantins,Brazil	12.7200S	47.6800W	382	From 2012-06-07
Paranatinga-MT	PRNT	Mato Grosso,Brazil	14.5400S	54.0147W	650	From 2010-07-14 to 2012-03-07
Paran Flat	KRMI	Israel	30.1174N	34.7250E	468	From 2006-12-07
Parapanda	PARA	Spain	37.3052N	3.9065W	1328	
Paraskevi	PRK	Greece	39.2461N	26.2717E	100	
Parauapebas	PRPB	Para,Brazil	6.1724S	49.8150W	265	From 2013-10-02
Parau_RN	NBPA	Rio Grande do Norte,Brazil	5.7503S	37.1121W	92	From 2011-12-16
Paravola	PVO	Greece	38.6167N	21.5259E	185	From 2009-09-02
Parchiule	PARC	Italy	43.6486N	12.2386E	580	From 2008-04-01
Parcperdue Array	LSU2	Louisiana,U.S.A.	30.0785N	92.0315W	-24	
Parcperdue Array	LSU4	Louisiana,U.S.A.	30.0350N	92.0463W	-22	
Parcperdue Array	LSU3	Louisiana,U.S.A.	30.0492N	92.0071W	-24	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Parcperdue Array	LSU1	Louisiana,U.S.A.	30.0733N	91.9821W	-23	
Parcperdue Array	LSU5	Louisiana,U.S.A.	30.0673N	92.0542W	-24	
Parewanui	WSSZ	North Island,New Zealand	40.2403S	175.2275E	15	From 1982-10-15 to 1982-10-24
Parga	RGA	Greece	39.3212N	20.3544E	608	From 2007-11-06
Pariaguan	PARV	Venezuela	8.9650N	64.7960W	205	From 2002-04-04
PARIAGUAN	PRGV	Venezuela	8.7601N	64.6456W	175	From 2006-06-14
Pari Array Site 0	PAK0	Pakistan	33.6500N	73.2520E	0	
Paris	R50A	Kentucky,U.S.A.	38.2816N	84.3274W	255	From 2012-06-17
Paris	PAR	Ile-de-France,France	48.8094N	2.4936E	47	
Paris	J52A	Ontario,Canada	43.2407N	80.4764W	273	From 2012-12-01
Paris	P40A	Missouri,U.S.A.	39.5299N	92.0483W	225	From 2010-12-07 to 2012-09-12
Paritu Road	PRGZ	North Island,New Zealand	38.9226S	177.8833E	503	From 2006-07-23
Parker Dam,Lake Havasu City	PDMCI	Arizona,U.S.A.	34.3034N	114.1415W	144	From 2001-09-20
Parker Ranch, Bruneau	K11A	Idaho,U.S.A.	42.7713N	116.0323W	914	From 2007-02-06 to 2008-07-23
Parkersburg	K38A	Iowa,U.S.A.	42.6472N	92.7709W	306	From 2010-10-09 to 2012-10-23
Parkers Pond	PKN	Newfoundland,Canada	47.5858N	52.7833W	210	
Park Falls	F40A	Wisconsin,U.S.A.	45.9190N	90.1217W	486	From 2011-09-01 to 2013-07-11
Parkfield	PKD1	California,U.S.A.	35.8894N	120.4261W	431	
Parkfield Array	PPFM	California,U.S.A.	35.8818N	120.4130W	469	From 1968-01-11
Parkfield Array	PKF	California,U.S.A.	35.8818N	120.4130W	469	From 1968-01-11
Park Hill	PKH	California,U.S.A.	36.8563N	121.4060W	122	From 1970-08-17
Park Hill	HPHM	California,U.S.A.	36.8563N	121.4060W	122	From 1970-08-17
Park Rapids	D34A	Minnesota,U.S.A.	47.0851N	95.1952W	476	From 2010-08-25 to 2012-06-22
Parks Canada Compound	HGPB	British Columbia,Canada	53.2536N	132.1180W	34	From 2012-11-03
Parkston	J32A	South Dakota,U.S.A.	43.3719N	97.8476W	399	From 2010-07-24 to 2012-05-21
Parma	PARMO	Missouri,U.S.A.	36.6635N	89.7522W	85	
PARMA	PRMA	Italy	44.7637N	10.3131E	78	From 2008-06-04
Parndana	PARN	South Australia,Australia	35.8059S	137.2389E	140	
Parnis Oros	MPAR	Greece	38.1513N	23.7357E	1160	
Parod	PARD	Israel	32.5573N	35.2609E	399	
Parque de las Ciencias	APCG	Spain	37.1900N	3.5900W	0	
Parque Tenorio	PTEN	Costa Rica	10.7148N	84.9870W	712	From 2000-01-01
Pars	IPAR	Iran	29.8419N	53.0485E	2603	From 2002-10-01
Parsons	PB-	Tennessee,U.S.A.	35.7361N	88.1361W	122	From 1962-07-06 to 1962-07-11
Parsons	PB-TN	Tennessee,U.S.A.	35.7361N	88.1361W	122	
Parsons Mountain	PRM	South Carolina,U.S.A.	34.0830N	82.3630W	254	From 1975-07-04
Partacoona	PNA	South Australia,Australia	32.0061S	138.1650E	180	From 1969-09-01 to 2001-09-26
Partapura	PTPR	Jammu and Kashmir,India	37.6100N	77.4600E	3430	From 2012-01-01
Partlow Road	PTRD	Virginia,U.S.A.	38.1196N	77.6227W	75	
Paruwai Farm	PAWZ	North Island,New Zealand	41.3815S	175.4269E	567	From 2004-07-14
Parvadeh(Tabas)	TPRV	Iran	33.0281N	56.6858E	1022	From 2011-08-01
Parys	PRYS	Orange Free State,South Africa	26.9253S	27.3598E	1403	From 2004-03-01
Parys	PRY	Orange Free State,South Africa	26.9283S	27.4733E	1455	
Pasadena	PAS	California,U.S.A.	34.1484N	118.1711W	257	From 1927-03-17 to 2007-10-26
Pasadena Art Cn	PASC	California,U.S.A.	34.1714N	118.1852W	341	
Pas de la Coche	PCHF	Rhone-Alpes,France	45.2182N	6.0304E	2010	From 1980-08-01
Pas du Roy	PRGF	Guadeloupe,France	16.0362N	61.6622W	1070	
Pasian Peak	PPH	Mindanao,Philippines	7.8492N	126.1872E		From 1980-01-18
PASIGHAT	PASG	Arunachal Pradesh,India	27.6449N	91.8666E	297	From 2011-01-15
Pasiripis	PASI	Jawa,Indonesia	6.6894S	105.5890E	220	From 1991-10-01
Paso Flores	PLCA	Rio Negro,Argentina	40.7328S	70.5508W	956	
Paso Robles	PPRM	California,U.S.A.	35.6477N	120.7010W	279	
PASSCAL Warehouse	TVZX	New Mexico,U.S.A.	34.0733N	106.9196W	0	From 2013-11-05
Passleys Farm, La Prairie	O41A	Illinois,U.S.A.	40.1156N	90.8820W	203	From 2011-06-10 to 2013-05-07
Passo dei Salati	SATI	Italy	45.8753N	7.8685E	3005	From 2009-12-07
Passo delle Capannelle	RM26	Italy	42.4569N	13.3563E	1404	From 2009-06-19 to 2010-03-03
Pasto	PSO	Colombia	1.1919N	77.3253W	3010	
Pasto	CPAS1	Colombia	1.1890N	77.3220W	3227	
Pasto	CPAS2	Colombia	1.2210N	77.2510W	2641	
Pastocalle	PAST	Colombia	0.6942S	78.6418W	3461	From 2009-06-17
Pasture Canyon	PST	Utah,U.S.A.	39.5767N	110.3520W	2118	From 1962-01-01 to 1977-03-31
Pasuquin	PIP	Luzon,Philippines	18.3250N	120.6190E	150	From 1976-01-26
Patacocha	PATA	Ecuador	1.5033S	78.4335W	3725	
Patacocha	PAT1	Ecuador	1.5067S	78.4380W	3751	From 2008-08-20
Patallajta	BS02	Bolivia	19.1148S	65.0697W	2650	From 2011-09-23
Pataskala	O51A	Ohio,U.S.A.	40.1470N	82.6056W	380	From 2012-08-24
Patelzick Creek	PZCI	Idaho,U.S.A.	44.3410N	112.3170W	2073	From 1991-12-08
Paterson	PATW	Washington,U.S.A.	45.8819N	119.7535W	262	
Paterson	PNJ	New Jersey,U.S.A.	40.9071N	74.1548W	31	From 1972-03-01 to 1996-09-30
Paterson 2	PAT2	Washington,U.S.A.	45.8836N	119.7578W	259	
Patience	SLPA	St Lucia	13.8537N	60.9190W	183	
Patillas Dam, Puerto Rico	PDPR	Puerto Rico	18.0181N	66.0222W	38	From 2012-03-15
Patocco-Chiusaforte	PTCC	Italy	46.4053N	13.3533E	770	
Patos De Minas	PMNB	Minas Gerais,Brazil	18.5373S	46.4380W	949	
Patos, Paraiba, Brazil	PATB	Paraiba	7.0800S	37.2722W	268	From 2011-07-28 to 2013-02-23
Patquia	RTPR	La Rioja,Argentina	30.3022S	66.5114W		
Patras	PAT	Greece	38.2364N	21.7467E	40	
Patras	PAT4	Greece	38.2342N	21.7477E	28	From 2011-10-01
Pattan	PPS1	Pakistan	35.1010N	72.9950E	747	From 2012-01-01
Pattaya	PATY	Thailand	12.9232N	100.8657E	39	
Patterson Ranch, Waldron	T33A	Kansas,U.S.A.	37.0824N	98.2444W	394	From 2009-10-15 to 2011-08-27
Patty Peak	PTPK	Alaska,U.S.A.	61.1874N	142.4650W	1933	
Pauahi	PUH	Hawaii,U.S.A.	19.3740N	155.2160W	994	From 1974-03-01
Paudash Township	D48A	Ontario,Canada	47.1743N	81.8072W	434	From 2012-10-27
Pau dos Ferros	PFBR	Rio Grande do Norte,Brazil	6.1216S	38.2708W	220	From 2007-01-01
Paularo	PLRO	Italy	46.5497N	13.1481E	1420	From 1988-01-01
Paulatuk	C36M	NorthWest Territories,Canada	69.3475N	124.0703W	10	From 2013-08-21
Pauline	PAULI	North Carolina,U.S.A.	34.8210N	81.8144W	178	
Paul Sauer Dam	PSR	Cape Province,South Africa	33.6800S	24.4100E	360	From 1988-01-01 to 2009-06-05
Paul Wright Trailer	PWTG	California,U.S.A.	38.2773N	119.2520W	1996	From 1979-11-15
Pauzhetka	PAU	Kamchatskaya Oblast',Russia	51.4669N	156.8111E	110	
Pavia	EUCT	Italy	45.2026N	9.1349E	82	From 2006-06-26
Pavia	PAV	Italy	45.1833N	9.1736E	77	
Pavliani	VPA	Greece	38.7815N	22.3400E	1084	From 1982-10-01
Pavlikeni	PVL	Bulgaria	43.2167N	25.3333E	97	From 1965-01-01
Pavlof North-6	PN6	Alaska,U.S.A.	55.4528N	161.9205W	808	From 1996-07-01
Pavlof North-7A	PN7A	Alaska,U.S.A.	55.4326N	161.9982W	823	From 1996-07-01
Pavlof South-1A	PS1A	Alaska,U.S.A.	55.4212N	161.7422W	293	From 1996-07-01
Pavlof South-4	PS4	Alaska,U.S.A.	55.3540N	161.8682W	520	
Pavlof South-4A	PS4A	Alaska,U.S.A.	55.3460N	161.8561W	322	From 1996-07-01
Pavlof Volcano	PVV	Alaska,U.S.A.	55.3742N	161.7900W	164	
Pavook Mountain	PVK	Alaska,U.S.A.	63.4390N	171.5522W	411	From 1980-07-01 to 1989-01-01
Pawanui	PXZ	North Island,New Zealand	40.0306S	176.8622E	103	From 2005-08-21
Pawanui	PWZ	New Zealand	40.0297S	176.8620E	66	From 2001-01-30 to 2005-08-16
Pawnee	U35A	Oklahoma,U.S.A.	36.3709N	96.7318W	303	From 2010-06-18 to 2012-02-12
Paxson	PAX	Alaska,U.S.A.	62.9708N	145.4690W	1130	From 1969-07-01
Payao	PAYA	Thailand	19.3603N	99.8692E	408	
Payeh	IPAY	Iran	36.4500N	58.9960E	2100	From 2004-06-01
Payette	I10A	Idaho,U.S.A.	44.0860N	116.8029W	782	From 2006-10-26 to 2008-07-19
Paynes Creek	O03D	California,U.S.A.	40.2947N	121.8018W	968	
Paynes Creek	O03E	California,U.S.A.	40.2946N	121.8021W	967	From 2012-10-08
Payson	PY-	Arizona,U.S.A.	34.2542N	111.3269W	1516	
Payson	PY-AZ	Arizona,U.S.A.	34.2542N	111.3269W	1516	
Pazar-Rize	PZAR	Turkey	41.1780N	40.8988E	80	From 2007-03-01
Peach Tree Valley	PTV	California,U.S.A.	36.1083N	120.7210W	506	From 1970-04-16
Peach Tree Valley	PPTM	California,U.S.A.	36.1083N	120.7210W	506	From 1970-04-16
Peaks-Kenny Pk	PKME	Maine,U.S.A.	45.2644N	69.2917W	108	From 2006-07-06
Pea Ridge	PEA	Alabama,U.S.A.	33.2553N	87.4943W	107	
Pea Ridge, Belzoni	Z44A	Mississippi,U.S.A.	33.2773N	90.4322W	39	From 2011-04-18 to 2013-02-04
Pea Ridge Mine	MMM	Missouri,U.S.A.	38.1300N	91.0400W	-244	
Pearl BPA Site DOGAMI SMO	PERL	Oregon,U.S.A.	45.2382N	122.7790W	68	From 2002-03-19
Pearl Lake	PLID	Idaho,U.S.A.	45.0877N	116.0003W	2194	
Pearson	355A	Georgia,U.S.A.	31.3438N	82.8518W	69	From 2012-03-14
Peavine Mountain	PEAR	Nevada,U.S.A.	39.6075N	119.9613W	2142	
Pechorkino, Salair, Kemerovskaya Oblast', Russia	SALR	Altayskiy Kray,Russia	54.4169N	85.7029E	250	From 2005-03-02
Pechory	PECR	Nizhegorodskaya Oblast',Russia	56.3167N	44.0833E		
Peckham Road	AN8*	California,U.S.A.	36.9532N	121.6950W	94	From 1967-06-23
Peckham Road	PKC	California,U.S.A.	36.9532N	121.6950W	94	From 1967-06-23
Peckham Road	HPRM	California,U.S.A.	36.9532N	121.6950W	94	From 1967-06-23

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Pedasi@15	AZU2	Panama	7.5340N	80.0260W	66	
Pedernales	PEDR	Haiti	18.0362N	71.7461W	0	
Pedernales	PDNS	Ecuador	0.1114N	79.9910W	139	From 2009-04-24
Pedra_Branca-CE	NBPB	Ceara,Brazil	5.5432S	39.5837W	263	From 2011-05-29
Pedra do Cavalo	PDCR	Bahia,Brazil	12.5313S	39.1225W	220	From 1987-01-01
Pedras Altas	PLTB	Rio Grande do Sul,Brazil	31.7632S	53.6039W	397	
Pedro Bay	PDB	Alaska,U.S.A.	59.7878N	154.1920W	305	From 1979-02-22
Pedro Cerda	PED	South Shetland Islands	62.9394S	60.5850W	10	
Pedro de Valdivia	PECH	Antofagasta,Chile	22.5975S	69.6742W	0	
Pedro Dome	PJD	Alaska,U.S.A.	65.0350N	147.5080W	740	From 1967-01-01 to 1971-11-30
Pedrog??o	PDRG	Portugal	38.1000N	7.6400W	107	From 2007-06-28
Pedro II - PI	NBPS	Piaua,Brazil	4.3940S	41.4457W	713	From 2011-05-17
Pedro Velho	NBPV	Rio Grande do Norte,Brazil	6.4177S	35.2906W	91	From 2011-04-05
Peebles	Q51A	Ohio,U.S.A.	39.0260N	83.3456W	362	From 2012-06-26
Peechi	PCHI	Kerala,India	10.5310N	76.3460E	105	From 1999-09-01
Peel High School	AUPHS	New South Wales,Australia	31.1000S	150.8900E	404	From 2013-05-24
Peglio	PE3	Italy	43.6960N	12.4963E	530	From 2010-07-07
Peine	PEI	Antofagasta,Chile	24.6833S	68.0667W	5000	
Peixe	PEXB	Tocantins,Brazil	12.1056S	48.3006W	350	
Peje	PEJK	Kosovo	42.6425N	20.2784E	822	From 2008-07-06
Pelados	CHP1	Peru	4.6719S	80.4911W	150	From 1979-12-01
Peldehue	PEL	Santiago,Chile	33.1436S	70.6853W	690	
Peleduy	PDY	Sakha,Russia	59.6333N	112.7003E	300	
Peleduy Array Beam Reference Point	PDYAR	Sakha,Russia	59.6553N	112.4408E	489	
Peleduy Array Site 01	PDY01	Sakha,Russia	59.6553N	112.4408E	447	From 1999-03-21
Peleduy Array Site 02	PDY02	Sakha,Russia	59.6583N	112.4478E	452	From 1999-03-21
Peleduy Array Site 03	PDY03	Sakha,Russia	59.6522N	112.4436E	467	From 1999-03-21
Peleduy Array Site 04	PDY04	Sakha,Russia	59.6583N	112.4331E	453	From 1999-03-21
Peleduy Array Site 05	PDY05	Sakha,Russia	59.6744N	112.4408E	452	From 1999-03-21
Peleduy Array Site 06	PDY06	Sakha,Russia	59.6578N	112.4756E	430	From 1999-03-21
Peleduy Array Site 07	PDY07	Sakha,Russia	59.6422N	112.4592E	425	From 1999-03-21
Peleduy Array Site 08	PDY08	Sakha,Russia	59.6408N	112.4200E	443	From 1999-03-21
Peleduy Array Site 09	PDY09	Sakha,Russia	59.6608N	112.4064E	446	From 1999-03-21
Peleduy Array Site 31	PDY31	Sakha,Russia	59.6175N	112.6361E	280	
Pelee Case Petit	PCM	Martinique,France	14.8155N	61.2105W	335	
Pelee Island, Stone Alvar Conservation Area	PLIO	Ontario,Canada	41.7505N	82.6284W	143	From 2009-06-03
Pelican Cone	YPPC	Wyoming,U.S.A.	44.6480N	110.1925W	2932	
Pelion	Y56A	South Carolina,U.S.A.	33.7922N	81.3047W	154	From 2013-02-21
Pellescritta (Montereale)	RM33	Italy	42.5090N	13.2145E	1097	From 2010-09-03
Pemberton	PMB	British Columbia,Canada	50.5188N	123.0760W	400	From 1993-06-05 to 2004-11-10
Pembroke	HPE	Wales,United Kingdom	51.9371N	4.7745W	355	From 1990-01-01
Pembroke	PEMO	Ontario,Canada	45.6773N	77.2466W	180	From 2009-04-27
Pemiscott Bayou	PEBM	Missouri,U.S.A.	36.1131N	89.8623W	76	
Pen@16o@15n de Ve@15lez	PVLZ	Spain	35.1730N	4.3010W	0	
Penalolen	FSR	Santiago,Chile	33.4785S	70.5275W	781	
Peˆ–a Musera	YMUS	Spain	42.5838N	1.0202W	594	From 2010-05-01
Penas	PNS	Bolivia	16.2672S	68.4733W	3986	From 1963-01-01 to 1975-12-31
Penc	PENC	Hungary	47.7905N	19.2817E	250	
Pendagan	PENI	Sumatera,Indonesia	5.5667S	105.1710E	200	From 1991-10-01
Pen de Alhucemas	ALHU	Morocco	35.2133N	3.8900W	60	From 2008-01-16 to 2009-07-08
Pender Island	PIB	British Columbia,Canada	48.8167N	123.3170W	40	From 1975-11-01 to 1981-04-27
Pendleton	U60A	North Carolina,U.S.A.	36.4718N	77.1596W	8	From 2013-04-23
Pendleton	F08A	Oregon,U.S.A.	45.7971N	118.7768W	487	From 2006-07-30 to 2008-06-05
Pendleton	PNO	Oregon,U.S.A.	45.6120N	118.7630W	402	From 1975-06-01
Pendleton	PT-	Oregon,U.S.A.	45.6111N	118.8839W	411	From 1962-01-26 to 1963-07-29
Pendleton	PT-OR	Oregon,U.S.A.	45.6111N	118.8839W	411	From 1962-01-26 to 1963-07-29
Pengchaiyu	PCYT	Taiwan region	25.6294N	122.0713E	101	
Penghu	PNG	Taiwan region	23.5672N	119.5550E	11	
P'eng-hu	PHUB	Taiwan region	23.5133N	119.5720E	15	
Peninsula	PNL	Alaska,U.S.A.	59.6687N	139.3970W	579	From 1974-09-02
Penmaenmawr	WPM1	Wales,United Kingdom	53.2581N	3.9048W	353	From 1985-01-01
Penman	PENMO	Missouri,U.S.A.	36.4502N	89.6280W	85	
Pennisi	EPIS	Sicily,Italy	37.6508N	15.1237E	385	From 1994-10-01
Penn State University	WRPS	Pennsylvania,U.S.A.	40.7941N	77.8653W	320	
Penn State University - DuBois	PSDB	Pennsylvania,U.S.A.	41.1273N	78.7531W	437	
Penn State Wilkes-Barre	PSWB	Pennsylvania,U.S.A.	41.3055N	76.0152W	398	
Penn St. - Brandywine Campus	PSUB	Pennsylvania,U.S.A.	39.9274N	75.4514W	110	
Pennsylvania Geol. Surv.	PAGS	Pennsylvania,U.S.A.	40.2278N	76.7221W	120	
Penon de los Banos, D. F.	PBIG	Mexico	19.4412N	99.0843W	0	
Penonome	PNME	Panama	8.4860N	80.3269W	79	From 2010-05-10
Penrod	PNR	Nevada,U.S.A.	38.8213N	118.7940W		
Pensacola	PEN	Florida,U.S.A.	30.4667N	87.1833W		
Pensacola State College	PJC	North America,U.S.A.	30.4806N	87.2011W		
Pentalofos	PENT	Greece	40.1958N	21.1384E	1090	From 2010-10-21
Penteli	PTL	Greece	38.0489N	23.8647E	500	
Penticton	PNT	British Columbia,Canada	49.3167N	119.6170W	550	From 1960-01-01
Pentidattilo	ME09	Italy	37.9524N	15.7564E	244	From 2008-06-28 to 2010-01-31
Penuelas	PNP	Puerto Rico	18.0583N	66.6836W	200	From 1975-07-30
Penzance	CPZ	England,United Kingdom	50.1560N	5.5835W	198	From 1981-01-01
Pequot Lakes	E35A	Minnesota,U.S.A.	46.5572N	94.4043W	409	From 2010-08-25 to 2012-07-29
Pera	PFPE	Portugal	37.1340N	8.3178W	33	From 1996-01-01 to 2009-05-30
Peraleda del Zaucejo, Badajoz	E030	Spain	38.4684N	5.6264W	627	From 2007-09-16 to 2009-06-17
Peralta Trail, Apache Junction	Z16A	Arizona,U.S.A.	33.3410N	111.4273W	537	From 2007-03-15 to 2008-12-03
Peran	IPRN	Iran	36.2419N	52.3381E	1333	From 2000-08-01
Perchaven, Sanger	Z35A	Texas,U.S.A.	33.3308N	97.2530W	235	From 2009-11-11 to 2011-09-10
Perdido Creek Ranch, Del Rio	631A	Texas,U.S.A.	29.4123N	100.5759W	344	From 2009-02-19 to 2011-01-21
Perigny	PRYF	Poitou-Charentes,France	46.1635N	1.0507W	30	
Peristeri Attica	PER1	Greece	38.0119N	23.7027E	62	From 2012-09-01
Perm'	PR5R	Permskiy Kray,Russia	58.1047N	56.1265E	110	From 2004-03-16 to 2006-02-06
Permogore	PRGR	Arkangel'skaya Oblast',Russia	61.6362N	45.6272E	84	
Pernaja	PVF	Finland	60.5451N	25.8616E	45	From 1991-06-11
Pernice	PERS	Slovenia	46.6359N	15.1167E	795	
Perris	PRR	California,U.S.A.	33.7800N	117.2330W	440	
Perris	PEC	California,U.S.A.	33.8919N	117.1610W	616	From 1970-01-01
Perry	554A	Florida,U.S.A.	30.0841N	83.6836W	12	From 2012-02-13
Perry	K48A	Michigan,U.S.A.	42.8032N	84.1197W	273	From 2012-09-15
Perry	K55A	New York,U.S.A.	42.7278N	78.0696W	482	From 2012-12-13
Perry Basin	PBU	Utah,U.S.A.	41.4682N	112.0100W	1625	From 1975-09-01 to 1981-11-30
Perryville	PV-AR	Arkansas,U.S.A.	34.9294N	92.6700W	213	From 1962-06-15 to 1962-06-28
Perryville	PV-	Arkansas,U.S.A.	34.9294N	92.6700W	213	From 1962-06-15 to 1962-06-28
Perryville	PRYA	Alaska,U.S.A.	55.9088N	160.1700W	20	From 1993-06-01
Persembe	PERT	Turkey	41.0792N	37.7358E	480	From 1994-06-01 to 1999-09-23
Persembe-Ordu	PRSB	Turkey	41.1044N	37.7752E	274	From 2012-03-22
Pertek	PTK	Turkey	38.8920N	39.3920E	1835	From 2004-08-30
Perth	PER	Western Australia,Australia	31.9527S	115.8390E	55	
Perugia	PRG	Italy	43.1014N	12.3969E	495	
Perugia	PEG	Italy	43.1014N	12.3969E	495	
Perugia	UPRP	Italy	43.0898N	11.0500E	319	From 2002-08-30
Pesaro	PESA	Italy	43.9410N	12.8402E	221	From 2002-12-02
Pesaro	PS1	Italy	43.9167N	12.9167E		From 1976-06-01
Pesaro	PRO	Italy	43.9167N	12.9167E		From 1976-06-01
Pescadero	PSD	California,U.S.A.	37.1990N	122.3480W	84	From 1970-11-25
Pescasseroli (AQ)	T0204	Italy	41.8666N	13.7809E	1371	From 2009-10-08 to 2010-01-22
Pesch	BD10	Nordrhein-Westfalen,Germany	51.0548N	6.4572E	80	From 2001-01-01 to 2006-11-30
Pescosannita	PSB1	Italy	41.2234N	14.8108E	551	
Pescosannita	IPES	Italy	41.2333N	14.8333E	395	From 1999-01-01
Peshawar	PES	Pakistan	34.0050N	71.5483E		
Peshawar	PSH	Pakistan	33.9371N	71.4341E	456	From 1976-01-01
Peshkopia	PHP	Albania	41.6847N	20.4408E	728	
Pessada-Kefalonia	PSDA	Greece	38.1140N	20.5841E	48	From 2014-10-10
Petalidi	PET1	Greece	36.9639N	21.9255E	9	From 2011-10-01
Petauke	PTZ	Zambia	14.2490S	31.3390E	1027	
Peterborough	PBR1	South Australia,Australia	32.9787S	138.8357E	555	From 2011-06-29
Peter Faust Dam	PETE	Queensland,Australia	20.4388S	148.4234E	140	
Peter Gray Mountain	PGY	New York,U.S.A.	43.7077N	74.0452W		From 1986-11-01
Petersbachel	PEB	Rheinland-Pfalz,Germany	49.0667N	7.7167E	325	
Petersburg	PBG	Alaska,U.S.A.	56.8010N	132.9277W	37	From 1995-04-19
Petersburg	PBG1	Alaska,U.S.A.	56.7940N	132.9142W	75	
Petersburg	PBV	Virginia,U.S.A.	36.9823N	77.5312W	49	From 1978-10-10 to 2004-09-30

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Petersburg	PSA	Alaska,U.S.A.	56.8083N	132.9533W	17	From 1975-01-01
Petersburg Public Schools	PPSA	Alaska,U.S.A.	56.8130N	132.9550W	25	
Peters Creek, San Mateo County	JPC	California,U.S.A.	37.2708N	122.2127W	257	From 2001-03-07
Peters Farms, Glenburn	B27A	North Dakota,U.S.A.	48.4044N	101.2600W	492	From 2009-08-05 to 2011-06-11
Peterson	PTR	Alabama,U.S.A.	33.2172N	87.4333W	122	From 1971-01-09
Peters Valley	PVN	New Jersey,U.S.A.	41.1957N	74.8697W	175	From 1973-02-01 to 1974-07-31
Petit Bourg	GPTB	Guadeloupe,France	16.1961N	61.5947W	30	From 2005-02-01
Petit Monier	SLW	St Lucia	14.0203N	60.9384W	366	From 1978-06-25
Petit Puy Manson	PYM	Auvergne,France	45.7505N	3.0078E	970	From 1980-06-01
Petnica	PTNS	Serbia	44.2467N	19.9357E	0	
Petorca	PTCH	Valparaiso,Chile	32.2635S	70.9300W	500	
Petoskey	G46A	Michigan,U.S.A.	45.3176N	84.8621W	239	From 2012-11-11
PETRACHIOAIA	PCHR	Romania	44.5852N	26.3090E	76	From 2008-11-14
Petralia Soprana	PETRA	Sicily,Italy	37.8335N	14.1148E	1547	From 2012-07-26
Petresti	PETR	Romania	45.7230N	27.2310E	86	
Petrified Forest	W18A	Arizona,U.S.A.	35.1181N	109.7357W	1750	From 2007-05-01
Petropavlovsk	PET	Kamchatskaya Oblast',Russia	53.0239N	158.6531E	68	
Petropavlovsk-Kamchatskiy Array Site A0	PEA0	Russia	53.1082N	157.6989E	400	
Petropavlovsk-Kamchatskiy Array Site A1	PEA1	Russia	53.1132N	157.6984E	391	
Petropavlovsk-Kamchatskiy Array Site A2	PEA2	Russia	53.1078N	157.7051E	381	
Petropavlovsk-Kamchatskiy Array Site A3	PEA3	Russia	53.1071N	157.6897E	415	
Petropavlovsk-Kamchatskiy Array site AOB	PEA0B	Kamchatskaya Oblast',Russia	53.1082N	157.6989E	380	
Petropavlovsk-Kamchatskiy Array Site B1	PEB1	Russia	53.1260N	157.6904E	369	
Petropavlovsk-Kamchatskiy Array Site B2	PEB2	Russia	53.1179N	157.7219E	367	
Petropavlovsk-Kamchatskiy Array Site B3	PEB3	Russia	53.1006N	157.7239E	406	
Petropavlovsk-Kamchatskiy Array Site B4	PEB4	Russia	53.0920N	157.6961E	432	
Petropavlovsk-Kamchatskiy Array Site B5	PEB5	Russia	53.1197N	157.6750E	430	
Petropavlovsk-Kamchatskiy Array site P	PETK	Kamchatskaya Oblast',Russia	53.1082N	157.6989E	400	
Petropavlovsk-Kamchatskiy Array site S2	PES2	Kamchatskaya Oblast',Russia	53.1096N	157.7226E	416	
PETROPAVLOVSK-KAMCHATSKY INFRASONIC ARRAY REFERENCE POINT	PETK	Kamchatskaya Oblast',Russia	53.1058N	157.7139E	380	From 2006-10-30
Petropavlovskoye	PETS	Sakhalinskaya Oblast',Russia	46.7900N	142.5000E	35	
Petroterminal	PTP1	Panama	8.2047N	82.4282W	10	
Petrulli	EPET	Sicily,Italy	37.7037N	15.1202E	630	From 1994-10-01
Pettibone, Tappen	D29A	North Dakota,U.S.A.	47.0605N	99.5957W	551	From 2009-08-05 to 2011-06-28
Pettigrew	V39A	Arkansas,U.S.A.	35.8389N	93.6450W	744	From 2011-01-29 to 2012-10-30
Peulik 1	PLK1	Alaska,U.S.A.	57.8019N	156.6072W	78	
Peulik 2	PLK2	Alaska,U.S.A.	57.7642N	156.3243W	401	
Peulik 3	PLK3	Alaska,U.S.A.	57.6887N	156.2674W	494	
Peulik 4	PLK4	Alaska,U.S.A.	57.6321N	156.3577W	1031	
Peulik 5	PLK5	Alaska,U.S.A.	57.9977N	156.8777W	49	
Peulik Blue Creek	PLBL	Alaska,U.S.A.	57.6998N	156.8189W	461	
Peulik Whale Mountain	PLWL	Alaska,U.S.A.	58.0449N	156.3413W	0	
Peumo	U69B	O'Higgins,Chile	34.3707S	71.1762W	163	
Pezza	BBB4	Italy	43.4239N	12.6864E	898	From 2011-02-09
Pezze di Greco (BR)	PE1	Italy	40.8050N	17.4230E	80	From 1983-07-01
Pfaffnau Reservoir	PFAFF	Switzerland	47.2303N	7.9094E	587	From 2012-08-01
Pfieffer Point	BPFM	California,U.S.A.	36.2300N	121.7720W	349	From 1973-12-18
Phalaborwa	PHW	South Africa	23.9505S	31.1388E	440	
Phantom Ranch, North Zulch	437A	Texas,U.S.A.	30.8292N	96.1386W	95	From 2010-02-18 to 2011-12-09
Phaplu	PHAP	Nepal	27.5150N	86.5842E	2488	From 2001-10-14 to 2002-10-27
Phare de Pertusato	BONIF	Corse,France	41.3746N	9.1947E	100	From 2011-10-18
Phelps	PHEL	New York,U.S.A.	42.9542N	77.0950W	188	
Phidim	PHID	Nepal	27.1502N	87.7645E	1176	From 2001-10-22 to 2002-10-31
Philadelphia	PHI	Pennsylvania,U.S.A.	39.9589N	75.1750W	5	From 1934-07-01 to 1971-08-28
Philippi	PX-WV	West Virginia,U.S.A.	39.0761N	79.9111W	518	
Philippi	PX-	West Virginia,U.S.A.	39.0761N	79.9111W	518	
Philisteinsche Polder	PPB	Netherlands	52.6533N	4.6701E	0	
Philisteinsche Polder (Bergen)	PPB3	Netherlands	52.6526N	4.6700E	-164	From 2010-11-16
Philisteinsche Polder (Bergen)	PPB1	Netherlands	52.6526N	4.6700E	-14	From 2010-11-16
Philisteinsche Polder (Bergen)	PPB4	Netherlands	52.6526N	4.6700E	-239	From 2010-11-16
Philisteinsche Polder (Bergen)	PPB2	Netherlands	52.6526N	4.6700E	-89	From 2010-11-16
Phinny Hill Vineyards, Prosser	F07A	Washington,U.S.A.	45.8951N	119.9278W	227	From 2006-08-27 to 2008-12-03
Phitsanulok	PHIT	Thailand	17.1893N	100.4165E	113	
Phoenix Point, Boone	L37A	Iowa,U.S.A.	42.1246N	93.7546W	312	From 2010-11-08 to 2012-08-28
Phrae	PHRA	Thailand	18.4989N	100.2293E	186	
Phuket	PKT	Thailand	8.0800N	98.1900E		From 1994-07-01
Phuket	PKDT	Thailand	7.8920N	98.3350E	53	
Phulchoki	PKIN	Nepal	27.5770N	85.3965E	2300	From 2007-04-17
Phu-Lien	PLV	Vietnam	20.8060N	106.6290E	90	From 1924-01-01
Piacenza	PCN	Italy	45.0500N	9.6667E		
Piamonte	PMON	El Salvador	13.7122N	89.3144W	980	From 2013-03-04
Piancastagn	PCP	Italy	44.5413N	8.5452E	770	From 1989-03-15
Piano d'Api	EPAP	Sicily,Italy	37.6363N	15.1415E	295	From 1994-10-01
Piano di Cascina (Cagnano Amiterno)	RM09	Italy	42.4355N	13.1865E	1127	From 2009-04-07 to 2010-03-04
Piano Vulcano	PV6*	Sicily,Italy	38.3767N	14.9822E		From 1966-04-01 to 1966-05-01
Piatra Neamt	PTT	Romania	46.9347N	26.3861E	350	From 1987-01-15
Picacho	PICS	El Salvador	13.7394N	89.2550W	1960	From 1991-12-01
Picacho Peak	PIC	California,U.S.A.	32.9142N	114.6430W	263	
Picada	PICA	Costa Rica	10.0255N	83.7858W	2565	
Picayune	PC-	Mississippi,U.S.A.	30.5558N	89.7825W	12	From 1966-11-12 to 1966-12-06
Picayune	PC-MS	Mississippi,U.S.A.	30.5558N	89.7825W	12	From 1966-11-12 to 1966-12-06
Piccione	A001	Italy	43.1671N	12.5206E	317	From 2011-02-09
PICH	PICHH	Bolivia	19.8107S	63.7239W	1676	From 1994-05-30 to 1995-08-08
Pichilemu	PICH	O'Higgins,Chile	34.3858S	72.0019W	30	
Pichilemu	CHPI	O'Higgins,Chile	34.3904S	72.0033W	20	From 2010-05-06
Pichilemu	BO03	O'Higgins	34.4961S	71.9612W	128	From 2014-10-29
Pichincha	GPNO	Ecuador	0.1530S	78.6222W	4040	
Pickens	PKO	Oklahoma,U.S.A.	34.3973N	95.0311W	264	From 1987-10-16
Pickering	PKRO	Ontario,Canada	43.9643N	79.0714W	197	From 2009-04-16
Pickett Peak	KPPM	California,U.S.A.	40.3460N	123.3620W	1762	
Pickford	PF-MI	Michigan,U.S.A.	46.0878N	84.4608W	259	From 1963-01-03 to 1963-06-17
Pickford	PF-	Michigan,U.S.A.	46.0878N	84.4608W	259	From 1963-01-03 to 1963-06-17
Pickle Lake	PKLO	Ontario,Canada	51.4987N	90.3522W	376	
Pickwick Lake	PLAL	Alabama,U.S.A.	34.9824N	88.0755W	165	
Pickwick Lake	PWLA	Alabama,U.S.A.	34.9800N	88.0640W	204	From 1980-05-14
Pico	PICO	Azores,Portugal	38.5008N	28.4256W	775	From 1989-05-26
Pico Bartolomeu	BART	Azores,Portugal	37.7772N	25.1689W	887	
Pico da Cruz	PCRZ	Azores,Portugal	37.8448N	25.7585W	845	
Pico das Favas	PFAV	Azores,Portugal	38.7113N	27.0844W	153	From 2004-08-01
Pico do Norte, Sta. Barbara	PSMN	Azores,Portugal	37.0031N	25.0654W	276	From 2003-02-12
Pico dos Bois	PBOI	Azores,Portugal	38.4362N	28.3754W	540	From 2005-08-01
Pico dos Padres	PPAD	Azores,Portugal	38.7006N	27.2872W	305	From 2003-03-01
Pico do Teixo	PTEI	Azores,Portugal	38.4950N	28.3565W	820	From 2006-03-01
Pico El Aguila	EAV	Venezuela	8.8550N	70.8230W	4204	
Pico Espejo	PMV	Venezuela	8.5333N	71.0500W	4765	From 1979-01-01 to 2001-08-14
Pico Herrero	APHE	Spain	36.9520N	3.6880W	1360	
Pico Tres Padres	PTVM	Mexico D.F.,Mexico	19.5930N	99.1130W	2230	
Pico Vermelho	PVER	Azores,Portugal	37.7970N	25.5140W	135	From 2003-01-01
Piedade	PIED	Azores,Portugal	38.4190N	28.0538W	235	From 1993-02-02
Pie de Palo	PPA	San Juan,Argentina	31.5156S	68.2686W	550	
Piedimonte	EPMN	Sicily,Italy	37.8188N	15.1778E	470	From 1994-10-01
Piedmont	Y50A	Alabama,U.S.A.	33.8911N	85.7347W	248	From 2011-12-20
Piedmont	PDTN	Tennessee,U.S.A.	35.2733N	85.8495W	335	From 1985-09-19
Piedra Blanca	DR09	Dominican Republic	18.8113N	70.4166W	940	
Piedras Gordas	PGX	Baja California,Mexico	31.9620N	116.4420W	970	
Pieia	PIEI	Italy	43.5360N	12.5350E	665	From 2002-03-18
Pier 30 Seattle	PIER	Washington,U.S.A.	47.5835N	122.3409W	4	
Pierce County East Precinct	PCEP	Washington,U.S.A.	47.1119N	122.2901W	10	
Pierce County Firing Range	PCFR	Washington,U.S.A.	46.9898N	122.4409W	10	
Pierce County Mountain Detachment	PCMD	Washington,U.S.A.	46.8891N	122.3003W	239	
Pierce Ferry	PFA	Arizona,U.S.A.	36.1208N	114.0050W	417	From 1940-10-01 to 1952-06-30
Pierce Place, Pray	G17A	Montana,U.S.A.	45.3212N	110.7398W	1574	From 2007-10-20 to 2009-09-08
Pierce - Schroeder Farm, Trego	F38A	Wisconsin,U.S.A.	45.9588N	91.8775W	321	From 2011-08-27 to 2013-07-10
Pier house	PIRH	Turkey	40.8645N	28.9949E	15	From 2006-10-04
Pierpont	PPS	South Carolina,U.S.A.	32.8236N	80.0400W	4	From 1976-03-31
Piesco	J59A	New York,U.S.A.	43.4647N	74.5041W	541	From 2013-08-27
Pietermaritzburg	PTM	Natal,South Africa	29.6271S	30.4035E	671	
Pietermaritzburg	PIE	Natal,South Africa	29.6200S	30.3967E	656	From 1968-04-01 to 1999-08-25
Pietralacroce	PCRO	Italy	43.6077N	13.5323E	165	From 2009-01-05

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Pietralunga	PIET	Italy	43.4430N 12.4386E	573	From 2013-09-01
Pietralunga	CCN3	Italy	43.4219N 12.4403E	625	From 2011-03-15
Pietralunga - Aviosuperficie	ATPI	Italy	43.4507N 12.4022E	693	From 2009-03-17
Pietrapaola	PIPA	Italy	39.4851N 16.8158E	479	From 2008-07-02
Pietrapertosa	PTRP	Italy	40.5215N 16.0612E	1077	From 2003-12-05
Pietraperzia	CPTP	Sicily,Italy	37.4075N 14.1625E	560	From 2011-11-21
Pietraquaria	PTQR	Italy	42.0219N 13.4006E	957	
Pietraroja	PTRJ	Italy	41.3641N 14.5290E	1027	From 2007-01-18
Pieve de Saddi	D002	Italy	43.4208N 12.3795E	611	From 2011-03-15
Pieve di Cadore	PDC	Italy	46.4100N 12.3700E		
Pieve di Coriano (MN)	MIR06	Italy	45.0401N 11.0875E	17	From 2012-05-23
Pievefavera	PF6	Italy	43.1488N 13.1930E	425	From 2005-01-17
Pigeon Bay	PBS	South Carolina,U.S.A.	33.2790N 80.2640W	25	From 1974-05-20 to 1988-05-23
Pigeon Point	PIG	Trinidad and Tobago	11.1610N 60.8410W		
Pignataro Maggiore	PIGN	Italy	41.2003N 14.1802E	343	From 2011-02-24
Pigniu (Panix)	PANIX	Switzerland	46.8257N 9.1117E	1433	From 2011-08-05
Pignola, Italy	PGN3	Italy	40.5722N 15.7967E	882	From 2008-10-23
Pikevile	V50A	Tennessee,U.S.A.	35.6713N 85.1000W	287	From 2012-05-07
Pilaia Thessaloniki	PLA1	Greece	40.5557N 22.9888E	34	From 2011-05-01
Pilar	SET3	Azores,Portugal	37.8918N 25.7820W	300	From 1998-10-01
Pilar	PIL	Cordoba,Argentina	31.6683S 63.8833W	338	
Pilarcitos Creek	PCC	California,U.S.A.	37.5000N 122.3820W	91	From 1965-01-01
Pilbara Seismic Array Element 00	PSA00	Western Australia,Australia	21.5726S 119.8459E	244	From 2010-09-01
Pilbara Seismic Array Element A1	PSAA1	Western Australia,Australia	21.5767S 119.8363E	277	From 2010-09-01
Pilbara Seismic Array Element A2	PSAA2	Western Australia,Australia	21.5627S 119.8468E	265	From 2010-09-01
Pilbara Seismic Array Element A3	PSAA3	Western Australia,Australia	21.5781S 119.8548E	365	From 2010-09-01
Pilbara Seismic Array Element B1	PSAB1	Western Australia,Australia	21.5689S 119.8219E	282	From 2010-09-01
Pilbara Seismic Array Element B2	PSAB2	Western Australia,Australia	21.5552S 119.8612E	348	From 2010-09-01
Pilbara Seismic Array Element B3	PSAB3	Western Australia,Australia	21.5933S 119.8549E	309	From 2010-09-01
Pilbara Seismic Array Element C1	PSAC1	Western Australia,Australia	21.5333S 119.8091E	283	From 2010-09-01
Pilbara Seismic Array Element C2	PSAC2	Western Australia,Australia	21.5626S 119.9008E	324	From 2010-09-01
Pilbara Seismic Array Element C3	PSAC3	Western Australia,Australia	21.6218S 119.8278E	325	From 2010-09-01
Pilbara Seismic Array Element D1	PSAD1	Western Australia,Australia	21.4547S 119.8301E	260	From 2010-09-01
Pilbara Seismic Array Element D2	PSAD2	Western Australia,Australia	21.6175S 119.9630E	400	From 2010-09-01
Pilbara Seismic Array Element D3	PSAD3	Western Australia,Australia	21.6433S 119.7798E	312	From 2010-09-01
Pilgrim Ck.	I17A	Wyoming,U.S.A.	43.9200N 110.5759W	2134	From 2007-09-19 to 2010-06-09
Pilot Hill	PHWY	Wyoming,U.S.A.	41.3016N 105.4578W	2645	
Pilot Hill -- Preliminary Site	PHWY1	Wyoming,U.S.A.	41.2855N 105.4453W	2666	
Pilot Knob	PLT	California,U.S.A.	32.7312N 114.7290W	61	From 1973-04-16
Pilot Rock	PK-	Oregon,U.S.A.	45.3175N 118.9092W	1036	From 1962-06-06 to 1962-06-28
Pilot Rock	G08A	Oregon,U.S.A.	45.2904N 118.9595W	1318	From 2006-08-10 to 2008-12-03
Pilot Rock	PK-OR	Oregon,U.S.A.	45.3175N 118.9092W	1036	From 1962-06-06 to 1962-06-28
Pin@16on Flat	XPFO	California,U.S.A.	33.6107N 116.4555W	1280	
Pinalito	DR03	Dominican Republic	19.2725N 70.7688W	710	
Pinalito	DR3	Dominican Republic	19.2725N 70.7688W		
Pinar	PINR	Spain	36.4990N 6.1183W	10	
Pinarbasi	PINB	Turkey	38.6769N 36.4027E	2288	From 2006-10-19 to 2013-06-01
Pinares de Mayari	PINC	Cuba	20.4870N 75.7910W		
Pinarhisar	PHSR	Turkey	41.6307N 27.5239E	263	From 2009-07-09
Pinatubo--East Slope	PINP	Luzon,Philippines	15.2190N 120.3340E	350	
Pinawa	PWM	Manitoba,Canada	50.1919N 96.0364W	274	From 1978-10-06 to 1984-05-15
Pinckard	351A	Alabama,U.S.A.	31.2753N 85.6036W	48	From 2012-02-02
Pindari Dam	PDDM	Queensland,Australia	29.3801S 151.2429E	499	
Pindiu	PDUI	Papua New Guinea	6.4470S 147.5110E	950	From 1988-06-16
Pine Canyon	PNC	California,U.S.A.	36.5622N 121.6360W	305	From 1967-09-24 to 1976-12-31
Pine Canyon	BPCM	California,U.S.A.	36.5650N 121.6360W	268	From 1976-02-14
Pine Canyon	BPCNC	California,U.S.A.	36.5734N 121.6269W	173	
Pine Canyon	AN1*	California,U.S.A.	36.5622N 121.6360W	305	From 1967-09-24 to 1976-12-31
Pine Creek	PINI	Idaho,U.S.A.	43.5076N 111.3460W	1932	From 1986-01-01
Pine Creek	PN-	Oregon,U.S.A.	43.7431N 118.5772W	1250	
Pine Creek	PN-OR	Oregon,U.S.A.	43.7431N 118.5772W	1250	
Pine Crest Farm, Angora	C36A	Minnesota,U.S.A.	47.7580N 92.8378W	410	From 2010-09-16 to 2012-08-02
Pinedale	PI2WY	Wyoming,U.S.A.	42.7672N 109.5619W	2195	
Pinedale	PI3	Wyoming,U.S.A.	42.4417N 109.5790W	2164	From 1973-10-18 to 1973-12-11
Pinedale	PI-WY	Wyoming,U.S.A.	42.4528N 109.5486W	2170	From 1964-01-22 to 1964-04-29
Pinedale	PI6	Wyoming,U.S.A.	42.7262N 109.6060W	2225	From 1974-03-01 to 1976-01-31
Pinedale	PI5	Wyoming,U.S.A.	42.5671N 109.9120W	2273	From 1974-03-01 to 1976-01-31
Pinedale	PIN	Wyoming,U.S.A.	42.5825N 109.7170W	2225	From 1973-03-22 to 1973-06-08
Pinedale	PI7	Wyoming,U.S.A.	42.4397N 109.5730W	2179	From 1974-03-01 to 1976-01-31
Pinedale	PI1	Wyoming,U.S.A.	42.5953N 109.5450W	2195	From 1973-06-08 to 1973-08-13
Pinedale	PI-	Wyoming,U.S.A.	42.4528N 109.5486W	2170	From 1964-01-22 to 1964-04-29
Pinedale	PI4	Wyoming,U.S.A.	42.6283N 109.8930W	2194	From 1973-12-11 to 1974-02-22
Pinedale	PI2	Wyoming,U.S.A.	42.7750N 109.7400W	234	From 1965-03-01 to 1965-04-26
Pinedale Array Beam Ref. Point	PDAR	Wyoming,U.S.A.	42.7667N 109.5579W	2214	
Pinedale Array Site 1	PD01	Wyoming,U.S.A.	42.7765N 109.5832W	2199	
Pinedale Array Site 10	PD10	Wyoming,U.S.A.	42.7595N 109.5570W	2216	
Pinedale Array Site 11	PD11	Wyoming,U.S.A.	42.7526N 109.5769W	2182	
Pinedale Array Site 12	PD12	Wyoming,U.S.A.	42.7551N 109.5631W	2186	
Pinedale Array Site 13	PD13	Wyoming,U.S.A.	42.7551N 109.5497W	2337	
Pinedale Array Site 2	PD02	Wyoming,U.S.A.	42.7782N 109.5664W	2218	
Pinedale Array Site 3	PD03	Wyoming,U.S.A.	42.7759N 109.5496W	2293	
Pinedale Array Site 31	PD31	Wyoming,U.S.A.	42.7667N 109.5579W	2214	
Pinedale Array Site 32	PD32	Wyoming,U.S.A.	42.7670N 109.5582W	2213	From 2010-10-27
Pinedale Array Site 4	PD04	Wyoming,U.S.A.	42.7660N 109.5744W	2185	
Pinedale Array Site 5	PD05	Wyoming,U.S.A.	42.7704N 109.5666W	2184	
Pinedale Array Site 7	PD07	Wyoming,U.S.A.	42.7704N 109.5445W	2331	
Pinedale Array Site 8	PD08	Wyoming,U.S.A.	42.7589N 109.5836W	2190	
Pinedale Array Site 9	PD09	Wyoming,U.S.A.	42.7618N 109.5672W	2208	
Pinedale Infrasonic Array Beam Reference Point	PDIAR	Wyoming,U.S.A.	42.7663N 109.5939W	2332	
Pine Flat Road	PFR	California,U.S.A.	38.7527N 122.7445W	1020	
Pine Grove	444A	Louisiana,U.S.A.	30.7153N 90.7463W	40	From 2011-03-09 to 2012-12-08
Pine Lake Middle School	PNLK	Washington,U.S.A.	47.5806N 122.0284W	10	
Pine Mountain	GPMM	California,U.S.A.	38.8475N 122.9463W	783	From 1973-09-21
Pine Mountain	PINOR	Oregon,U.S.A.	43.8111N 120.8719W		
Pine Mountain	PMT	Oregon,U.S.A.	43.7909N 120.9450W	1924	From 1969-09-22 to 1984-01-17
Pine Mountain	PEM	California,U.S.A.	34.1673N 117.8700W		From 1976-02-01
Pine Mountain	VPIM	Oregon,U.S.A.	43.7908N 120.9450W	1932	
Pine Mountain	WPMQ	Queensland,Australia	27.5357S 152.7360E	35	From 1977-03-18
Pine Mountain Observatory	PINE	Oregon,U.S.A.	43.7921N 120.9407W	1916	
Pine Nut	PNTR	Nevada,U.S.A.	39.0891N 119.5997W	2076	
Pine Pass	PPC	British Columbia,Canada	55.4000N 122.6170W		From 1969-07-01 to 1973-04-06
Pinerolo	PNI	Italy	44.9192N 7.3139E	585	From 1968-01-01 to 1990-12-31
Pines Island, New Caledonia	PINNC	New Caledonia	22.6129S 167.4465E	21	From 2011-10-21
Pine Spring	PSUT	Utah,U.S.A.	38.5337N 113.8547W	1999	From 2009-10-21
Pineville	PE-	West Virginia,U.S.A.	37.6147N 81.6653W	427	From 1962-07-06 to 1962-07-17
Pineville	PE-WV	West Virginia,U.S.A.	37.6147N 81.6653W	427	From 1962-07-06 to 1962-07-17
Pingtan	PTTC	Taiwan region	25.5000N 119.7700E	0	From 2011-07-22
Pingtung City	TSPT	Taiwan region	22.6770N 120.4960E	25	From 1999-08-04
Pink Cliffs	PKCU	Utah,U.S.A.	37.4439N 112.3110W	2834	From 2009-10-24
Pinkham Creek	PNK	Montana,U.S.A.	48.7677N 115.0880W	1150	From 1971-02-01 to 1974-07-10
Pink Hill	W60A	North Carolina,U.S.A.	35.0528N 77.7133W	30	From 2013-03-09
Pinlang	TWG	Taiwan region	22.8207N 121.0720E	195	From 1972-09-25
Pinnacle	PCA	Alaska,U.S.A.	60.0967N 140.2570W	975	From 1974-09-05
Pinnacle	PINM	Alaska,U.S.A.	60.0967N 140.2570W	975	From 1974-09-05
Pinnacle Mountain	PNN	Alaska,U.S.A.	56.8050N 157.5830W	442	
Pinnacles	BPIM	California,U.S.A.	36.4900N 121.1680W	329	From 1975-07-03
Pino	PINO	Ecuador	0.1580S 78.6077W	4600	
Pinole Ridge	CPIM	California,U.S.A.	37.9889N 122.2150W	226	
Pinon	PBVM	Mexico D.F.,Mexico	19.4412N 99.0843W		
PINON FLAT INFRASONIC ARRAY REFERENCE POINT	PFIAS	California,U.S.A.	33.6059N 116.4533W	1251	From 2004-02-20
Pinon Flats	TPFO	California,U.S.A.	33.6060N 116.4544W	1275	From 2010-04-09
Pinotepa	PNIG	Guerrero,Mexico	16.3923N 98.1271W	350	
Pinotepa	PIO	Oaxaca,Mexico	16.3947N 98.1270W	200	
Pinto Mountains	PNMC	California,U.S.A.	33.9773N 115.8010W	1147	
Pinyon Flats Observatory	PFO	California,U.S.A.	33.6117N 116.4594W	1259	From 1982-10-01
Pinyon Peak	BPPM	California,U.S.A.	36.1687N 121.3780W	1591	From 1973-12-19
Pioggiola	PGF	Corse,France	42.5483N 8.9994E	1130	From 1989-11-15
Pioraco	PIO1	Italy	43.1782N 12.9838E	465	From 2011-03-30
Pipehead	PHDM	New South Wales,Australia	33.8470S 150.9690E	90	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Piper City	N44A	Illinois,U.S.A.	40.7953N	88.1333W	202	From 2011-10-16
Piper Mountain	PPK	California,U.S.A.	37.4249N	117.9063W	1855	
Pipestone	PP-MN	Minnesota,U.S.A.	44.0775N	96.1508W	533	
Pipestone	PP-	Minnesota,U.S.A.	44.0775N	96.1508W	533	
Piqa, Costa Abajo de Colsn	PINA	Panama	9.2540N	80.0636W	34	From 2004-10-01
Piqua	PIOH	Ohio,U.S.A.	40.1580N	84.2115W	301	
Pira-Piraso	VPP	Luzon,Philippines	14.0340N	121.0000E	10	
Pireas	PIR3	Greece	37.9572N	23.6520E	17	From 2012-11-01
PIREAS,	PIR1	Greece	37.9371N	23.6425E	45	From 2013-01-15
Piriac/mer	PIAC	Pays de la Loire,France	47.3691N	2.5392W	3	From 2008-05-08
Pirkuli	PQL	Azerbaijan	40.7890N	48.5930E	1481	From 2003-08-01
Pirkuli	PRLS	Azerbaijan	40.7850N	48.5900E	1448	From 1996-01-01
Pirmasens	PIR	Rheinland-Pfalz,Germany	49.2000N	7.6074E	400	From 1968-01-01
Pirpir	IPIR	Iran	32.6841N	50.8917E	2600	From 2000-09-01
Pirque	PCH	Santiago,Chile	33.6208S	70.5139W	1010	From 1982-01-01
Pisa	PIS	Italy	43.5833N	10.6833E		
Pisa	PII	Italy	43.7219N	10.5249E	66	
Pisagua	PSGCX	Tarapaca,Chile	19.5972S	70.1230W	966	From 2012-01-01
Pisagua	PSGC	Tarapaca,Chile	19.5972S	70.1231W	966	
Pisayambo	PISA	Ecuador	1.0585S	78.3855W	3931	From 1995-02-10
Pisayambo	PIS1	Ecuador	1.0588S	78.3859W	3921	From 2012-06-14
Pisciano	N001	Italy	43.3398N	12.4816E	690	From 2011-03-15
Pisco	PT06	Peru	13.8292S	76.3310W	220	
Pishtovo	PSV	Tajikistan	38.6000N	69.9000E		
Pistoia	PSL	Italy	44.0078N	10.9656E	810	
Pistol Creek	PCMT	Montana,U.S.A.	47.2152N	114.0278W	1873	
Piszkesteto	PSZ	Hungary	47.9184N	19.8944E	940	
Pitanga	PTGB	Parana,Brazil	24.7161S	52.0648W	907	
Pitcairn Island	PTCN	Pitcairn Island	25.0714S	130.0953W	223	
Pitcher Mountain	PNH	New Hampshire,U.S.A.	43.0942N	72.1358W	659	From 1976-01-01
Pitchstone Plateau	YPP	Wyoming,U.S.A.	44.2710N	110.8045W	2707	
Pithoragarh	PTH	Uttar Pradesh,India	29.5500N	80.2167E	1669	
Pitinga	PTGA	Brazil	0.7308S	59.9666W	137	From 1995-01-01
Piton Saint Espirit	SLPE	St Lucia	13.8431N	60.9952W	460	
Pitten	PIA	Austria	47.7175N	16.1931E	380	
Pitt Meadows	PIMB	British Columbia,Canada	49.2743N	122.6661W	43	
Pittsburgh	PIT	Pennsylvania,U.S.A.	40.4450N	79.9533W	273	From 1929-01-01 to 1962-01-31
Pittston Farm, Pittston Academy Grant	F62A	Maine,U.S.A.	45.8968N	69.9664W	331	From 2013-09-27
Pium - TO	RET10	Tocantins,Brazil	10.4308S	49.0985W	266	From 2012-05-02
Piute Mountains	PIU	California,U.S.A.	34.7403N	115.0940W	1209	From 1974-04-01 to 1976-10-31
Piute Reservoir	PUU	Utah,U.S.A.	38.3633N	112.2800W	2598	
Piuthan	PYUN	Nepal	28.1000N	82.9900E	1867	From 1994-04-01
Piva	PIV	Solomon Islands,Papua New Guinea	6.2000S	155.0580E	60	
Pizarro, Choco	PIZC	Colombia	4.9650N	77.3600W	38	From 2014-01-10
Pizona Creek	PZC	California,U.S.A.	37.9652N	118.5683W	2103	
Pizzano Val di Parma - PR	RE07	Italy	44.5259N	10.1984E	745	From 2008-12-27 to 2009-02-12
Pizzo Deneri	EPDN	Sicily,Italy	37.7670N	15.0173E	2820	From 1989-08-01
Pizzo Felice	EPZF	Sicily,Italy	37.8240N	14.8570E	1140	From 1990-04-01
Pizzo Paviglione	EPPA	Sicily,Italy	37.7888N	14.9078E	1275	From 1994-10-01
Placanica	PLAC	Italy	38.4494N	16.4383E	602	From 2005-10-18
Placerville	I11A	Idaho,U.S.A.	43.9121N	115.9578W	1288	From 2006-11-16 to 2008-07-21
Plains	T30A	Kansas,U.S.A.	37.0526N	100.5274W	778	From 2009-04-09 to 2011-03-11
Plaka, Milos Island	MHLA	Greece	36.7450N	24.4219E	200	From 2011-09-14
Plampang	PLAI	Sumba,Indonesia	8.8275S	117.7765E	123	From 2011-03-04
Plano	RFTA	Texas,U.S.A.	33.0122N	96.6902W	200	
Plant 15--Mercuryville	GFTM	California,U.S.A.	38.7930N	122.8340W	755	
Plasencia	EPLA	Spain	40.0642N	6.0803W	591	From 1985-08-01
Plata	PLAT	Spain	36.1226N	5.7655W	414	
Platanillo	PLIG	Guerrero,Mexico	18.3923N	99.5023W	875	
Plateau Road	PRRZ	North Island,New Zealand	38.4989S	176.3929E	334	From 2007-11-12
Platees	VIL2	Greece	38.2118N	23.2680E	422	From 2008-12-29
Platillon	PLAV	Venezuela	9.8740N	67.5024W	1830	From 1984-01-01
Platte Center	PCNE	Nebraska,U.S.A.	41.5392N	97.4275W	482	
Plattsburgh	PNZ	New York,U.S.A.	44.8354N	73.5770W	215	
Plattsburgh	PNY	New York,U.S.A.	44.8342N	73.5550W	177	From 1971-08-01 to 2004-03-11
Plauen	PLN	Thuringen,Germany	50.4851N	12.1573E	432	
Plav	PVY	Montenegro	42.5945N	19.9587E	1303	From 1984-11-01
Playas El Morro	MORR	Ecuador	2.6405S	80.3380W	50	From 2012-05-17
Playas - Guayaquil	APLA	Ecuador	2.6363S	80.3925W	8	From 2011-11-16
Playas Peak, Playas	220A	New Mexico,U.S.A.	31.9041N	108.5266W	1395	From 2008-02-15 to 2009-12-10
Playas-San Antonio	PLAY	Colombia	2.5425S	80.3840W	35	From 2008-12-15
Playitas	PYT	Nicaragua	12.5282N	86.0647W	460	From 1975-01-01
Playitas	PYTN	Nicaragua	12.5377N	86.0577W	460	
Pleasant Camp	PLBC	British Columbia,Canada	59.4567N	136.3650W	280	From 1990-09-20
Pleasant Grove	PGM	Mississippi,U.S.A.	34.4640N	90.1125W	105	From 1979-08-24
Pleasanton	CPNM	California,U.S.A.	37.6502N	121.8620W	200	From 1980-01-01
Pleasant Valley	PEV	California,U.S.A.	36.9770N	121.8320W	158	
Pleasant Valley	JPLM	California,U.S.A.	36.9770N	121.8320W	158	
Pleasantville	M38A	Iowa,U.S.A.	41.4175N	93.1965W	258	From 2010-11-11 to 2012-08-29
Pleito Hills	PLEC	California,U.S.A.	34.9685N	119.0680W	1082	
Plekhanov	TI2	Georgia,Georgia	41.7333N	44.7500E	420	From 1978-01-01
Pleven	PLVB	Bulgaria	43.3870N	24.6207E	199	From 2012-11-20
Plevna	PLVO	Ontario,Canada	45.0396N	77.0754W	279	From 2009-04-29
Pljevlja	PLE	Montenegro	43.3300N	19.3889E	1230	From 1983-12-25
Plockton	KPL	Scotland,United Kingdom	57.3391N	5.6527W	36	From 1986-04-18
PLOIESTI	PLAR	Romania	44.9142N	26.0274E	146	From 2008-11-19
PLOIESTI	PPF	Romania	44.9314N	26.0201E	151	From 2008-11-18
Plons/SG	PLONS	Switzerland	47.0492N	9.3807E	1020	From 2002-05-21
Plostina	PLOR	Romania	45.8512N	26.6498E	657	From 2004-09-01
Plostina	PLOR7	Romania	45.8603N	26.6405E	757	From 2010-04-14
Plostina Array site 1	PLOR1	Romania	45.8520N	26.6466E	706	From 2007-10-07
Plostina Array site 2	PLOR2	Romania	45.8502N	26.6437E	701	From 2007-10-07
Plostina Array site 3	PLOR3	Romania	45.8540N	26.6455E	722	From 2007-10-07
Plostina Array site 4	PLOR4	Romania	45.8512N	26.6498E	680	From 2007-10-07
Plostina Array site 5	PLOR5	Romania	45.8455N	26.6635E	650	From 2009-01-19
Plostina Array site 6	PLOR6	Romania	45.8420N	26.6416E	720	From 2009-01-19
Plovdiv	PLD	Bulgaria	42.1049N	24.7031E	176	From 1983-08-01
Plymouth	PLY	Trinidad and Tobago	11.2170N	60.7790W	9	
Poas	POA	Costa Rica	10.1523N	84.2171W	2093	From 1984-03-17 to 1986-05-06
Poas 2	POA2	Costa Rica	10.1772N	84.2508W	2500	From 1986-05-06
Poas 5	POA5	Costa Rica	10.2044N	84.2297W	1230	
Poasito	TERP	Costa Rica	10.1690N	84.1923W	2023	
Poatina	POAT	Tasmania,Australia	41.8173S	146.9033E	834	
Poblet	EPOB	Spain	41.3527N	1.0786E	890	
Pocatello Creek	PTI	Idaho,U.S.A.	42.8703N	112.3700W	1670	From 1984-11-01
Pocatky	POCA	Czech Republic	50.3193N	12.4346E	800	
Po¯¡tky	POCW	Czech Republic	50.3200N	12.4270E	790	From 2004-04-01
Pochutla	PLO	Oaxaca,Mexico	15.7402N	96.4583W	280	
Podgorica	PDG	Montenegro	42.4302N	19.2553E	97	From 1960-01-01
Podgorica	TTG	Montenegro	42.4302N	19.2553E	97	From 1960-01-01
Podgornoye	PDGK	Kazakhstan	43.3290N	79.4900E	1400	From 1987-10-25 to 1996-11-15
Podkova	PDK	Kamchatskaya Oblast',Russia	56.1400N	160.7800E	800	
Podkum	PDKS	Slovenia	46.0612N	14.9978E	679	
Pofadder	POF	Cape Province,South Africa	29.3817S	19.9500E	940	From 1986-01-01 to 2000-09-01
Poggio Cancelli	RM32	Italy	42.5702N	13.2932E	1362	From 2009-09-18 to 2010-02-15
Poggio Castellaccio	ATPC	Italy	43.4807N	12.4570E	609	From 2009-01-26
Poggio di Roio	T0108	Italy	42.3354N	13.3765E	1013	From 2009-04-09 to 2009-11-26
Poggio Santa Maria	T0101	Italy	42.3308N	13.3026E	850	From 2009-04-06
Poggio Sant'Ercolano (Gualdo Tadino) PG	AT06	Italy	43.2315N	12.7115E	619	From 2010-04-20
Poggio Sodo	PGD	Italy	43.8753N	11.7214E	500	
Pogoanele	PGOR	Romania	44.9080N	26.9846E	98	From 2004-05-06
Pogromni	WPOG	Alaska,U.S.A.	54.5970N	164.7450W	445	
Pogue Cattle Company, Sulphur Springs	Z37A	Texas,U.S.A.	33.1981N	95.6229W	146	From 2010-04-26 to 2012-01-21
Pohakuloa	POHA	Hawaii,U.S.A.	19.7575N	155.5325W	1967	
Pohang	KSPHA	Republic of Korea	36.1929N	129.3708E	39	From 2004-12-20
Pohang	PHN	Republic of Korea	36.0300N	129.3600E		
Pohang	KSPOH	Republic of Korea	36.0245N	129.3758E	1	
Pohnpei	PATS	Caroline Islands,Micronesia	6.8367N	158.3125E	10	
Pohoiki	POH	Hawaii,U.S.A.	19.4570N	154.8540W	16	

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Poiana Mare	PMRF	Romania	45.3328N 25.9374E	1164	
Point Arena AFB	GAFM	California,U.S.A.	38.8932N 123.5380W	710	
Point Barrow	PTB	Alaska,U.S.A.	71.1333N 156.8000W		
Point Dume	PT2	California,U.S.A.	34.0042N 118.8060W	40	
Pointe Anglais	ICQ	Quebec,Canada	49.5217N 67.2719W	58	From 1991-01-08
Pointe-a-Pierre	TPP	Trinidad and Tobago	10.3170N 61.4510W	46	
Pointe Michel	DPMT	Dominica	15.2609N 61.3770W	50	
Pointe Molloy	PMK	Kerguelen Islands,France	49.3609S 70.0669E	22	
Pointe noire	GCPN	Guadeloupe,France	16.2344N 61.7883W	15	From 2007-02-01
Point Hope	I49A	Michigan,U.S.A.	43.9400N 82.8246W	217	From 2012-10-17
Point Lisas	PLS	Trinidad and Tobago	10.4130N 61.4900W		From 1977-10-01 to 1978-06-01
Point Lookout	PLVA	Virginia,U.S.A.	36.6673N 81.1582W	1353	From 1982-11-30 to 2008-02-13
Point Molate	CPMM	California,U.S.A.	37.9490N 122.4080W	116	
Point of Rocks Canyon, Magdalena	Y21A	New Mexico,U.S.A.	34.0087N 107.6740W	2168	From 2008-01-31 to 2009-12-05
Point Pleasant	PPLM	Missouri,U.S.A.	36.4034N 89.5831W	82	
Point Reyes	PRC	California,U.S.A.	38.0800N 122.8670W	404	
Point Reyes	NPRM	California,U.S.A.	37.9965N 123.0160W	165	
Point Sur Hydrophone	PSUR	California,U.S.A.	36.3016N 122.3933W		
Pokaka	PKVZ	North Island,New Zealand	39.2893S 175.3464E	770	From 2005-03-15
Poker Plat Research Range	POKR	Alaska,U.S.A.	65.1171N 147.4335W	501	From 2012-10-02
Pola	POL	Croatia	44.8667N 13.8500E	32	
Poland Farm, Powhatan	S58A	Virginia,U.S.A.	37.6126N 78.0511W	96	From 2013-04-04
Polavaram	PVM	Andhra Pradesh,India	17.2493N 81.6239E	40	From 2008-08-27
Polcenigo	POLC	Italy	46.0266N 12.5005E	150	From 2008-07-17
Pole Canyon	PCY	Utah,U.S.A.	38.3330N 112.9010W	2033	
Pole Creek	PCID	Idaho,U.S.A.	43.9137N 114.7780W	2262	From 1992-12-01
Pole Mountain	PM-WY	Wyoming,U.S.A.	41.2075N 105.3608W	2469	From 1961-11-25 to 1963-07-10
Pole Mountain	PMW	Wyoming,U.S.A.	41.2100N 105.3350W	2440	From 1961-12-08 to 1963-08-31
Pole Mt.	PM-	Wyoming,U.S.A.	41.2075N 105.3608W	2469	From 1961-11-25 to 1963-07-10
Poleta Canyon	POCCA	California,U.S.A.	37.3622N 118.2801W	1799	
Polichno	POLL	Slovakia	48.3578N 19.1575E	550	From 2002-10-01
Polilio Island	POLP	Luzon,Philippines	14.7280N 121.9390E	32	
Polino	PO9	Italy	42.5806N 12.8836E		
Polino	POI	Italy	42.5806N 12.8836E	1200	
Poliokeawe Pali	PWH	Hawaii,U.S.A.	19.2837N 155.2250W	169	From 1973-05-23
Pollina	PLLN	Sicily,Italy	37.9919N 14.1436E	762	
Polly Butte	POB	California,U.S.A.	33.6867N 116.9230W	1003	
Poltava	NE58	Ukraine	49.6030N 34.5430E	166	
Polygyros	PLG	Greece	40.3739N 23.4456E	580	
Pomanovo	PR1R	Permskiy Kray,Russia	59.1846N 56.7446E	160	
Pomariorio	PMO	Tuamotu,French Polynesia	15.0017S 147.8942W	2	
Pomariorio Reef	PMOR	Tuamotu,French Polynesia	15.0022S 147.8942W	2	
Pomeroy	PH-WA	Washington,U.S.A.	46.3236N 117.3281W	945	
Pomio	PNB	New Britain,Papua New Guinea	5.5250S 151.5080E	4	From 1971-08-06 to 1972-05-31
Pomona	POM	California,U.S.A.	34.1000N 117.7170W	350	From 1949-01-01 to 1999-08-25
Pomona	PCF	California,U.S.A.	34.0532N 117.7910W		From 1976-01-01
Pomortsevo, Kuzbass, Russia	POMOR	Kemerovskaya Oblast',Russia	54.4069N 86.5262E	211	From 2014-05-19
Pompei	CPMP	Italy	40.7373N 14.4999E	5	From 2010-12-06
Pompeii	PMP	Italy	40.7500N 14.5000E		
Ponca City	PCO	Oklahoma,U.S.A.	36.6930N 96.9825W	324	From 1977-07-05
Ponce	PZ-PR	Puerto Rico	17.9700N 66.4178W	5	From 1963-09-10 to 1964-03-13
Ponce	PZ-	Puerto Rico	17.9700N 66.4178W	5	From 1963-09-10 to 1964-03-13
Ponce	PON	Puerto Rico	18.0033N 66.6139W	50	From 1974-08-16 to 1975-07-17
Ponce-Enriquez	PENR	Ecuador	3.0442S 79.6894W	318	From 2012-08-15
Ponciano Ridge	BPRM	California,U.S.A.	36.4070N 121.7300W	741	
Pond Inlet	PINU	Nunavut,Canada	72.6971N 77.9748W	36	
Pondoa	POND	Ecuador	1.4212S 78.4523W	2754	From 2011-02-25
Pondosa	LPDM	California,U.S.A.	41.1953N 121.6960W	1231	
Poneloya	PYN	Nicaragua	12.3822N 87.0223W	50	From 1975-01-01
Pong	PONG	India	31.9533N 75.9500E	0	
Pongaroa	PGZ	North Island,New Zealand	40.6171S 176.2739E	60	From 1988-05-18 to 1996-06-19
Pongola	POGA	South Africa	27.3460S 31.7070E	290	From 2005-03-04
Pongola	POG	Natal,South Africa	27.3698S 31.6117E	290	From 1994-01-01 to 2005-10-30
Ponta Delgada	PDA	Azores,Portugal	37.7467N 25.6633W	35	
Ponta do Capelo	PTCA	Azores,Portugal	38.5845N 28.7966W	243	From 2005-08-01
Ponta Puerca	PTP	Puerto Rico	18.2362N 65.6175W		
Pont de Suert	PONT	Spain	42.4043N 0.7573E	1220	
Ponte Alta do Tocantins	PATO	Tocantins,Brazil	10.6293S 47.3082W	348	From 2011-08-06
Pontebba	POBI	Italy	46.5133N 13.2767E	860	From 1983-01-30 to 1988-01-01
Ponte de Pedra	PP1B	Mato Grosso,Brazil	17.6003S 54.8797W	368	From 2003-06-19
Pontenova	EPON	Spain	43.3270N 7.1494W	440	
Pontes e Lacerda, MT	PTLB	Mato Grosso,Brazil	15.4487S 59.1368W	72	From 2013-12-15
Pontiac	PW-	Illinois,U.S.A.	40.9161N 88.5853W	210	From 1966-06-29 to 1966-06-30
Pontiac	PW-IL	Illinois,U.S.A.	40.9161N 88.5853W	210	From 1966-06-29 to 1966-06-30
Pontianak	PTKI	Kalimantan,Indonesia	0.1454S 109.4049E	0	From 2005-01-01
Ponto Novo - BA	NBPN	Bahia,Brazil	10.8468S 40.1988W	386	From 2011-09-24
Pony Springs, Pioche	R12A	Nevada,U.S.A.	38.3281N 114.6076W	1845	From 2007-01-25 to 2008-09-10
Poona	POO	Maharashtra,India	18.5295N 73.8492E	560	From 1964-10-05
Poopo	POOP	Bolivia	18.3880S 67.0173W	3721	From 1994-06-09 to 1995-05-08
Poorman Mine	PMC	Colorado,U.S.A.	40.0300N 105.3370W	1990	From 1965-01-01 to 1969-12-31
Popayan, Colombia	POPC	Colombia	2.5402N 76.6758W	1869	From 2008-02-01
Popayan, Gabriela Mistral	CPOP5	Colombia	2.4710N 76.5760W	1794	From 1997-11-03
Popayan, Invias	CPOP2	Colombia	2.4590N 76.5960W	1769	From 1994-06-22
Popayan, Sena	CPOP3	Colombia	2.4840N 76.5630W	1873	From 1997-11-08
Popeni	PPE	Romania	46.2578N 27.8503E	267	From 1981-01-01
Popesti-Leordeni	POPR	Romania	44.3554N 26.2034E	109	From 2003-11-02
Popeta	MT01	Metropolitana	33.8641S 71.2509W	310	From 2014-01-21
Popiglio	POPM	Italy	44.0450N 10.7570E	440	From 2004-01-01
Poplar Bluff	PBMO	Missouri,U.S.A.	36.7786N 90.4297W	143	
Poplarville	446A	Mississippi,U.S.A.	30.7912N 89.3645W	55	From 2011-03-15 to 2012-12-13
Popocatepetl	PPM	Puebla,Mexico	19.0667N 98.6267W	3980	
Popondetta	POP	Papua New Guinea	8.7344S 148.2490E	100	From 1964-12-01 to 1966-02-28
Poppy Hill Road	APRM	California,U.S.A.	38.8770N 121.2170W	133	From 1976-07-15
Porangahau	PRHZ	North Island,New Zealand	40.2664S 176.6352E	326	From 2008-01-14
Porcher Bluff	PBF	South Carolina,U.S.A.	32.8585N 79.7642W	-58	
Porculla	PT18	Peru	5.8620S 79.4870W	2970	
Porcupine Dome	PRP	Alaska,U.S.A.	65.5178N 145.5220W	1498	From 1990-02-16
Pores Knob	PKNC	North Carolina,U.S.A.	36.0460N 81.1580W	785	From 1982-11-11 to 2008-02-13
Pori Road	PRWZ	North Island,New Zealand	40.5547S 175.9710E	303	From 2008-11-03
Porkkala	PKK	Finland	60.0052N 24.5169E	10	
Portachuelo	PCHP	Peru	6.0330S 79.6830W	150	
Portage	PTU	Utah,U.S.A.	41.9293N 112.3250W	2192	From 1976-12-17
Portage	PTE	Alaska,U.S.A.	60.8645N 149.0240W	55	From 1972-08-29
Portage Bay	POBM	Missouri,U.S.A.	36.4085N 89.6622W	82	
Portageville	PGVM	Missouri,U.S.A.	36.4602N 89.7290W	82	
Portageville	PTG	Missouri,U.S.A.	36.4277N 89.7037W		
Portageville	PVMO	Missouri,U.S.A.	36.4137N 89.6997W	98	
Portageville	U44A	Missouri,U.S.A.	36.5047N 89.6863W	89	From 2011-07-26 to 2013-05-01
Port Alberni	B927	British Columbia,Canada	49.2188N 124.8113W	-182	
Portalegre	PRL	Portugal	39.3117N 7.3594W	1020	
Port Alice, BC	PACB	British Columbia,Canada	50.4355N 127.4925W	24	From 2010-06-24
Port Angeles	B04A	Washington,U.S.A.	48.0575N 123.5040W	293	From 2005-10-21 to 2008-02-15
Port Antonio	PAJ	Jamaica	18.1700N 76.4560W	201	
Port-au-Prince	PAPH	Haiti	18.5225N 72.2993W	218	
Port-aux-Francais	PAF	Kerguelen Islands,France	49.3506S 70.2133E	17	
Port Bizet	KPB	Kerguelen Islands,France	49.5200S 69.9010E		From 1974-02-01
Port Blair	PBA	Andaman Islands,India	11.6559N 92.7428E	17	
Port Clarence	PTCL	Alaska,U.S.A.	65.2583N 166.8700W	14	From 1980-07-01
Port Clements	PCB	British Columbia,Canada	53.7061N 132.5670W	634	
Port Colborne	PTCO	Ontario,Canada	42.8844N 79.3115W	180	
Port Douzieme	KPD	Kerguelen Islands,France	49.5170S 70.1570E		From 1974-02-01
Porterfield Farm, Petersburg	Y29A	Texas,U.S.A.	33.8602N 101.6712W	991	From 2009-01-30 to 2010-11-16
Port Fidalgo	FID	Alaska,U.S.A.	60.7500N 146.4790W	457	From 1974-10-07
Port Gamble	PGW	Washington,U.S.A.	47.8219N 122.5990W	122	
Port Hardy	PHC	British Columbia,Canada	50.7067N 127.4320W	33	From 1962-12-01
Port Heiden	PHA	Alaska,U.S.A.	56.9883N 158.6750W		
Port Jervis	M60A	New York,U.S.A.	41.3265N 74.6250W	292	From 2013-08-31
Port Laguerre	NOUC	New Caledonia	22.1011S 166.3030E	112	From 1988-03-21
PORTLAGUERRE INFRASONIC ARRAY REFERENCE POINT	PTLF	New Caledonia	22.1844S 166.8459E	272	From 2002-03-29

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Portland	POR	Maine,U.S.A.	43.6833N	70.2833W		
Portland	PTD	Oregon,U.S.A.	45.5083N	122.7160W	208	From 1964-05-01
Portland Cottage	PCJ	Jamaica	17.7413N	77.1574W	98	From 1978-07-20
Port Lavaca	737A	Texas,U.S.A.	28.7639N	96.4402W	11	From 2010-05-25 to 2011-11-07
Port Louis	SEG	Guadeloupe,France	16.4028N	61.5052W	60	From 1981-01-01
Port Mandanici	MPNC	Sicily,Italy	38.1450N	15.3520E	385	From 1993-12-01
Port Miou	MIOU	France	43.2100N	5.5140E	10	From 2010-12-03
Port Moller	PMA	Alaska,U.S.A.	55.9786N	160.4970W	314	From 1972-09-16 to 1978-10-12
Port Moresby	PMG	Papua New Guinea	9.4062S	147.1590E	65	From 1957-12-01
Porto	PTO	Portugal	41.1386N	8.6022W	88	From 1912-01-01
Porto Alegre	UFRS	Rio Grande do Sul,Brazil	30.0540S	51.1244W	296	From 1994-04-01
Porto Cannone	PTC	Italy	41.9297N	15.0425E	40	
Porto d'Ischia	PDI	Italy	40.7333N	13.9500E	37	
Porto dos Ga˜"chos, MT	PDRB	Mato Grosso,Brazil	11.6123S	56.7296W	322	From 2012-11-12
Portola Park	JPPM	California,U.S.A.	37.2645N	122.2130W	186	From 1966-12-22
Portola State Park	LT3	California,U.S.A.	37.2645N	122.2130W	186	From 1966-12-22
Porto Moniz, Madeira	PMOZ	Madeira Islands,Portugal	32.8230N	17.1970W	1027	From 2008-09-01
Porto Murtinho	PTMB	Mato Grosso,Brazil	21.4631S	57.4756W	240	From 1994-10-01
Porto Nacional, TO, Brazil	RET1	Tocantins,Brazil	10.6711S	48.5469W	251	From 2009-10-29
Porton East	POE	England,United Kingdom	51.1447N	1.6539W	125	From 1975-09-28 to 2010-10-01
Porton South	POS	England,United Kingdom	51.1381N	1.6333W	122	From 1977-11-01 to 1978-07-12
Porto Primavera	POPB	Brazil	22.4565S	52.8368W	280	
Porto Santo	PMPS	Madeira Islands,Portugal	33.0570N	16.3330W	47	
Porto Santo, Madeira	PMPST	Madeira Islands,Portugal	33.0788N	16.3334W	240	From 2008-06-06
Port Pirie	PTPS	South Australia,Australia	33.1725S	137.9943E	9	From 2009-01-01
Port Renfrew	PFB	British Columbia,Canada	48.5717N	124.4400W	550	From 1983-06-15
Port Royal	PRJ	Jamaica	17.9352N	76.8438W	2	From 1969-08-09
Portsmouth	PSDMZ	Dominica	15.5770N	61.4563W	0	
Port Stanley	PSF	Falkland Islands	51.7000S	57.8667W		
Port Sulphur	646A	Louisiana,U.S.A.	29.5832N	89.8245W	0	From 2011-03-17 to 2013-01-27
Portuguese Canyon 2	PPO	California,U.S.A.	35.8667N	120.6160W	446	
Portuguez	PORP	Puerto Rico	18.0629N	66.6363W	199	From 1989-08-01
Port Vila	PVC	Vanuatu	17.7400S	168.3120E	80	From 1960-01-01
Port Wells	PWL	Alaska,U.S.A.	60.8593N	148.3350W	549	
Porvoo	PRF	Finland	60.3855N	25.6805E	10	
Porvoo	PRV	Finland	60.3571N	25.5584E	25	
Posio	KU3	Finland	66.1469N	28.5984E	245	From 2004-12-15
Posof	EPOS	Turkey	41.5035N	42.7279E	1499	From 2009-09-30
Possen	POSS	Thuringen	51.3327N	10.8668E	425	From 2012-02-17
Possum Corner Farms, Belvidere	U61A	North Carolina,U.S.A.	36.3319N	76.4464W	4	From 2013-04-24
Post	PO-TX	Texas,U.S.A.	33.4756N	101.3622W	914	From 1961-12-09 to 1961-12-20
Post	PO-	Texas,U.S.A.	33.4756N	101.3622W	914	From 1961-12-09 to 1961-12-20
Posta Fibreno	POFI	Italy	41.7174N	13.7120E	878	From 2007-03-28
Poste Baleine	PBQ	Quebec,Canada	55.2767N	77.7433W	20	
Post Highland Seismo, Ainsworth	M40A	Iowa,U.S.A.	41.4060N	91.5121W	223	From 2011-08-25
Postiglione	PST3	Italy	40.5609N	15.2433E	762	
Post Office Road	POWZ	New Zealand	40.3917S	175.7680E	295	From 2008-04-23
Post Ranch	BPOM	California,U.S.A.	36.2287N	121.7670W	354	
Potato Knob	PKKY	Kentucky,U.S.A.	38.3830N	83.0340W	336	From 1985-01-01
Poteau	W38A	Oklahoma,U.S.A.	35.0704N	94.5184W	169	From 2010-04-22 to 2012-02-29
Potenciana	PTCR	Costa Rica	9.7895N	84.4295W	1510	From 1984-03-17
Potenciana 2	POCR	Costa Rica	9.7843N	84.4042W	1360	
Potenza	PZUN	Italy	40.6459N	15.8071E	0	From 2005-07-25
Potomac	O45A	Illinois,U.S.A.	40.2489N	87.7244W	208	From 2011-10-17
Potrerito	POTV	Venezuela	9.9980N	67.4508W	1002	From 2004-07-01
Potrero Grande	POGM	Guerrero,Mexico	17.3752N	100.6213W	650	
Potrero Hills, Fairfield	POTR	California,U.S.A.	38.2026N	121.9353W	20	From 1998-12-10 to 2005-02-05
Potsdam	POT	Brandenburg,Germany	52.3803N	13.0678E	80	
Potsdam Coll	POTS	New York,U.S.A.	44.6634N	74.9732W	112	From 2006-05-22
Potsdam (NY)	PTN	New York,U.S.A.	44.5700N	74.9819W	197	From 1971-10-01
Potts Junction	PJG	Mariana Islands	13.5893N	144.8684E	199	From 1957-05-01
Potts Mountain	VWV	Virginia,U.S.A.	37.4660N	80.3917W	963	
Pottstown	PJ-PA	Pennsylvania,U.S.A.	40.2828N	75.5836W	91	
Pouilloux	POU	Bourgogne,France	46.6146N	4.3652E		
Poverty Ridge	CB7	California,U.S.A.	37.4292N	121.7425W	975	From 1968-07-12 to 1970-05-07
Poverty Ridge 1, Station 3	RDG13	California,U.S.A.	37.4289N	121.7434W	970	
Powder case	POWD	Turkey	40.8754N	28.9722E	6	From 2006-09-29
Powell	H19A	Wyoming,U.S.A.	44.6704N	108.9857W	1479	From 2008-08-13 to 2010-09-14
Powhatan	POW	Arkansas,U.S.A.	36.1520N	91.1850W	156	From 1974-06-19 to 1992-02-29
Poza Rica	PZX	Veracruz,Mexico	20.5389N	97.4592W	150	
Pozo Almonte	POZO	Chile	20.2525S	69.7594W	1024	From 2009-12-04
Pozo tres de Borinquen	PBO3	Costa Rica	10.8063N	85.4238W	583	From 2000-01-01
Pozza Ferrara, Ferrara di Monte Baldo (VR)	PZF	Italy	45.6558N	10.8322E	1095	From 2006-11-16
Pozzilli	PLI2	Italy	41.5314N	14.0586E	575	
Pozzillo	EPOZ	Italy	37.5136N	15.0822E	117	From 2006-07-12
Pozzuoli	CMRS	Italy	40.8376N	14.0928E	110	From 2008-03-03
Pozzuoli	IPOZ	Italy	40.8203N	14.1205E	3	From 1982-01-01
Pozzuolo	FPOZ	Hungary	46.0100N	13.1800E	59	From 2002-07-15
Prada, Italy	MPRD	Italy	45.9534N	11.8986E	705	From 2010-06-08
Prado	PRAC	Colombia	3.7138N	74.8862W	457	From 1994-01-01
Pradon	PRAF	Provence-Cote d'Azur,France	43.8042N	5.1692E	700	From 1982-11-01
Prague	PRA	Czech Republic	50.0703N	14.4331E	225	
Prainha do Norte	PPNO	Azores,Portugal	38.4716N	28.2638W	725	From 2002-08-01
Prairie City	H08A	Oregon,U.S.A.	44.5191N	118.6704W	1373	From 2006-07-28 to 2008-07-10
Prairie Point, Evansville	K42A	Wisconsin,U.S.A.	42.7792N	89.3457W	302	From 2011-10-14 to 2013-06-14
Prairie Street, Timpson	ETX02	Texas,U.S.A.	31.9091N	94.4058W	103	
Prapat	PSI	Sumatera,Indonesia	2.8010N	98.9240E	987	
Pratas Island	VDOS	Taiwan region	20.7010N	116.7306E	38	From 2009-05-06
Prato	PTF	Italy	43.9594N	11.0697E	550	
Prato	TPRT	Italy	43.5400N	11.0500E	99	From 2009-11-19
Pratoni del Vivaro - Roma	VIVA	Italy	41.7502N	12.7702E	550	From 2014-07-07
Pratopiano (Palanzano) - PR	RE06	Italy	44.4511N	10.2304E	680	From 2008-12-28 to 2009-02-12
Prato-Toscana	PRT	Italy	43.8800N	11.0942E	61	
Prehn Over North, Clear Lake	H33A	South Dakota,U.S.A.	44.6812N	96.7434W	584	From 2010-07-30 to 2012-06-11
Premariacco	FPRM	Italy	46.0600N	13.4000E	105	From 2007-09-15
Presa Benito Juarez	PBJ	Oaxaca,Mexico	16.4367N	95.4067W	213	
Presa Caracol 1	CC1	Guerrero,Mexico	17.9400N	100.0100W	1000	
Presa Caracol 2	CC2	Guerrero,Mexico	17.9930N	100.1010W	1000	
Presa Caracol 3	CC3	Guerrero,Mexico	17.9885N	99.9847W		
Presa Caracol 4	CC4	Guerrero,Mexico	18.0200N	99.9000W	1000	
Presa Caracol 5	CC5	Guerrero,Mexico	17.5400N	99.2780W		
Presa de Sabaneta	SDDR	Caribbean Sea,U.S.A.	18.9821N	71.2878W	589	
Presa Infiernillo	PIM	Guerrero,Mexico	18.2750N	101.8820W	81	
Presa Madin	MDVM	Mexico D.F.,Mexico	19.5365N	99.2490W	2405	
Presa Malpaso	PMM	Chiapas,Mexico	17.1700N	93.6028W	215	
Presa Marin	PNVM	Mexico D.F.,Mexico	19.3470N	98.9180W		
Presa Penitas 1	PN1	Chiapas,Mexico	17.4690N	93.4880W		
Presa Penitas 2	PN2	Chiapas,Mexico	17.4380N	93.4505W		
Presa Penitas 3	PN3	Chiapas,Mexico	17.3540N	93.6080W		
Presa Penitas 4	PN4	Chiapas,Mexico	17.1790N	93.3950W		
Preselentsi	PSN	Bulgaria	43.6822N	28.1836E	171	From 1983-08-01
Presidente	PPD	Sao Paulo,Brazil	22.0314S	51.3119W	406	From 1988-02-01
Presidio of San Francisco	JPRM	California,U.S.A.	37.7950N	122.4740W	107	From 1968-09-26
Presque Isle	PQI	Maine,U.S.A.	46.6710N	68.0168W	180	
Preston	PQ-ID	Idaho,U.S.A.	42.2281N	111.7158W	1554	
Preston	L41A	Iowa,U.S.A.	42.0751N	90.4977W	238	From 2011-06-09 to 2013-05-13
Preston Nutter Ranch, Sunnyside	P18A	Utah,U.S.A.	39.6279N	110.2457W	2743	From 2007-07-26 to 2009-06-03
Pretoria	PRE	Transvaal,South Africa	25.7533S	28.1900E	1333	From 1949-01-01 to 1999-08-25
Preveza	PRE2	Greece	38.9578N	20.7547E	9	From 2011-06-01
Preza	PRZA	Albania	41.4300N	19.6700E	230	From 2002-09-05
Pribbeno Ranch, Imperial	N28A	Nebraska,U.S.A.	40.6873N	101.5406W	1009	From 2009-05-20 to 2011-04-06
Pribram	PBCC	Czech Republic	49.6857N	13.9956E	386	From 2011-07-22
Price	PCU	Utah,U.S.A.	39.6067N	110.8050W	1714	From 1962-05-01
Price	KPE	Alaska,U.S.A.	64.4608N	146.8960W	204	From 1994-10-01
Price's Panorama, Muncy Valley	M58A	Pennsylvania,U.S.A.	41.3721N	76.4603W	529	From 2013-07-02
Priddis	PRDA	Alberta,Canada	50.8674N	114.2918W	1252	From 2009-11-13
Prieska	PKA	Cape Province,South Africa	29.6700S	22.7567E	960	From 1993-03-01
Priest	PRI	California,U.S.A.	36.1417N	120.6650W	1187	From 1961-01-01
Prijedor	PRIJ	Bosnia and Herzegovina	44.9720N	16.7130E	141	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Prince Edward County	PECO	Ontario,Canada	43.9340N	76.9939W	92	From 2009-04-30
Prince George	PG-BC	British Columbia,Canada	53.9972N	122.5231W	914	
Prince George	PG-	British Columbia,Canada	53.9972N	122.5231W	914	
Prince George	PG2BC	British Columbia,Canada	53.9911N	122.5122W	747	
Prince Lake	PRLK	Oregon,U.S.A.	44.2097N	121.9626W	1283	From 2007-08-17
Prince Rupert	RUBB	British Columbia,Canada	54.3262N	130.2523W	12	
Prince Rupert	RUB	British Columbia,Canada	54.3259N	130.2867W	53	From 1985-09-01 to 2006-03-28
Princess Elisabeth base, Queen Maud Land, Antarctica	EaIB	Antarctica	71.9470S	23.3469E	1359	From 2010-02-23
Princeton	PWV	West Virginia,U.S.A.	37.3360N	81.0478W	829	From 1978-03-01 to 2006-02-27
Princeton	PD-BC	British Columbia,Canada	49.3922N	120.4764W	914	From 1962-07-06 to 1962-07-17
Princeton	PRIN	New Jersey,U.S.A.	40.3669N	74.7179W	110	From 1977-03-01
Princeton	PANJ	New Jersey,U.S.A.	40.3769N	74.7029W	100	From 2008-02-15
Princeton	PD-	British Columbia,Canada	49.3922N	120.4764W	914	From 1962-07-06 to 1962-07-17
Princeton	G65A	Maine,U.S.A.	45.2002N	67.5632W	78	From 2013-09-24
Princeton	T46A	Kentucky,U.S.A.	37.0417N	87.8941W	169	From 2011-11-18
Prines Rethymno	PRNS	Crete,Greece	35.3649N	24.5015E	51	From 2006-12-01
Prineville	I06A	Oregon,U.S.A.	43.9437N	120.2107W	1296	From 2006-02-02 to 2008-04-09
Priterechnaya	PRTR	Severo-Osetinskaya,Russia	43.7515N	44.2820E	136	From 2005-08-08
Private Property, Shandon	TRAM	California,U.S.A.	35.6769N	120.2709W	642	From 2012-12-13
Private Property, Shandon	TSCN	California,U.S.A.	35.5440N	120.3481W	476	From 2012-03-09
Prizren	PRZK	Kosovo	42.2108N	20.7581E	683	From 2008-07-06
Prodromos	PDO	Greece	38.5986N	21.1833E	227	From 2009-10-02
Prodromos	PROD	Greece	38.2589N	22.9006E	350	From 2010-07-02
Promano (Citt^ di Castello) - PG	AT01	Italy	43.3940N	12.3076E	484	From 2010-04-01
Promontory Point	PPU	Utah,U.S.A.	41.3106N	112.4300W	1874	
Prospect	PRST	Texas,U.S.A.	31.9520N	94.6330W	220	
Prospect	TPR	Trinidad and Tobago	11.1860N	60.7770W	245	From 1978-02-20
Prospectdale	ELN	Virginia,U.S.A.	37.2283N	80.7517W	634	
Prosser	PRW	Washington,U.S.A.	46.2127N	119.6860W	552	From 1975-06-01
Provadia	PRD	Bulgaria	43.2000N	27.4000E	50	From 1995-01-01
Provideniya	PRVR	The Chukotsky Autonomous Okrug,Russia	64.4470N	173.1750W	86	From 2006-06-14
Provideniya	PROV	Magadanskaya Oblast',Russia	64.4270N	173.2250W	25	
Pruhonice	PRU	Czech Republic	49.9883N	14.5417E	302	
Pruna	EPRU	Spain	36.9660N	5.2313W	560	From 1986-11-01
Prunihres	OG17	Rhone-Alpes,France	44.9067N	5.7662E	1140	From 1988-09-12
Przheval'sk	PRZ	Kyrgyzstan	42.4833N	78.4000E	1835	From 1950-07-01
Psara	PSRA	Greece	38.5419N	25.5638E	12	From 2010-07-01
Psaromita, Dorida	PSARO	Greece,Greece	38.3319N	22.1752E	116	From 2000-04-16
Psathopyrgos	PSA1	Greece	38.3253N	21.8837E	3	From 2009-03-16
Pskov	NE52	Pskovskaya Oblast',Russia	57.8190N	28.3900E	40	
PSNS Bremerton SMO	PSNS	Washington,U.S.A.	47.5587N	122.6443W	6	From 2004-04-05
Pt. Cumana	TPTC	Trinidad and Tobago	10.6800N	61.5700W	49	
Pto Chacabuco	CHFR	Chile	45.4606S	72.8700W	0	
Pto de San Jose	PSG	Guatemala	13.9478N	90.7915W	5	From 1981-11-01 to 1988-12-31
PtolemaidA	PTO1	Greece	40.5101N	21.6819E	609	From 2010-11-01
Pto San Jose 2	PSG2	Guatemala	13.9522N	90.8155W	5	From 1988-01-01
Puale Bay	PUB	Alaska,U.S.A.	57.7733N	155.5170W	280	From 1974-01-01
Pucallpa	PUC	Peru	8.3970S	74.6680W	130	
Pucara	PUCR	Ecuador	3.2100S	79.5000W	3000	From 1995-07-21
Pudahuel	PUEX	Santiago,Chile	33.4413S	70.7579W	505	
Puddingstone Reservoir	PSRC	California,U.S.A.	34.0918N	117.8071W	305	
Puebla	PHPU	Puebla,Mexico	19.0442N	98.1685W	2170	From 2009-02-16
Puebla	CIPM	Puebla,Mexico	17.9620N	97.8540W		
Puebla	PUE	Puebla,Mexico	19.0417N	98.1967W	2162	
Puebla	CXP	Puebla,Mexico	18.2754N	97.1418W		
Pueblo Viejo	PVP	Peru	15.7914S	74.2211W	233	
Puelo Alto	PUEL	Chile	41.6637S	72.2960W	25	
Puengasi	QUEM	Ecuador	0.2371S	78.4973W	3055	From 2007-12-05
Puente Sto Nino	ARIG	Guerrero,Mexico	18.2805N	100.3473W	387	From 2009-02-01
Puerto Angel	PANG	Oaxaca,Mexico	15.6668N	96.4735W	0	From 2009-02-16
Puerto Armuelles	ARM	Panama	8.2832N	82.8665W	10	
Puerto Armuelles 2	ARM2	Panama	8.1000N	82.8667W	10	
Puerto Asis, Putumayo	PUAC	Colombia	0.5500N	76.5700W	287	From 2014-05-03
Puerto Ayacucho	PAYV	Venezuela	5.4200N	67.6560W	83	From 2003-07-16
Puerto Ayora	PAYG	Galapagos,Ecuador	0.6740S	90.2858W	195	
Puerto Aysen	AYCH	Chile	45.4018S	72.6940W	22	From 2009-07-09
Puerto Azul	PAZ	Luzon,Philippines	14.2260N	120.6760E	124	
PUERTO BERRIO, Antioquia	PTBC	Colombia	6.5395N	74.4563W	260	From 2011-12-05
Puerto del Bujeo, Cadiz	E002	Spain	36.0610N	5.5137W	388	From 2007-07-10 to 2009-06-15
Puerto del Eden	PDEM	Guerrero,Mexico	17.4632N	100.7410W	1620	
Puerto del Gallo	PGOM	Guerrero,Mexico	17.4720N	100.1803W	2560	
Puerto Escondido	PEO	Oaxaca,Mexico	15.8512N	97.0555W	3	
Puerto Escondido	PEX	Oaxaca,Mexico	15.8620N	97.0612W		
Puerto Gaitan, Meta	PTGC	Colombia	4.1990N	72.1340W	170	From 2013-09-25
Puerto Galera	PGP	Mindoro,Philippines	13.5019N	120.9530E	375	From 1977-05-22
Puerto Jimenez	PUJ	Costa Rica	8.5333N	83.3478W	50	
Puerto Jim"nez	PTJ1	Costa Rica	8.5360N	83.3020W	10	
Puerto La Cruz	PCRV	Venezuela	10.1762N	64.6361W	450	
Puerto La Cruz	PLCV	Venezuela	10.1633N	64.5896W	251	
Puerto Leguizamo, Putumayo	PTLC	Colombia	0.1710N	74.7970W	240	From 2012-12-03
Puertollano	NE13	Spain	38.6850N	4.0910W	700	From 1983-05-01 to 2001-07-28
Puerto L^‡pez	PPLP	Ecuador	1.5451S	80.7750W	250	From 2012-10-25
Puerto Moin	MOIN	Costa Rica	9.9870N	83.0938W	29	
Puerto Montt	PMCH	Chile	41.4898S	72.8962W	36	
Puerto Pe~–asco	PPXB	Baja California,Mexico	31.3355N	113.6330W	15	From 2007-12-31
Puerto Plata	PPDR	Dominican Republic	19.8053N	70.7243W	4	From 2010-01-01
Puerto Princesa	PPR	Palawan,Philippines	9.7761N	118.7300E	15	From 1972-01-01
Puerto Saavedra	PSCH	Cautin,Chile	38.7990S	73.3920W	85	From 2009-12-20
Puerto Suarez	BB08	Bolivia	18.9680S	57.8055W	116	From 2012-04-16
Puerto Villamil, Aeropuerto	PVIL	Galapagos,Ecuador	0.9463S	90.9542W	5	From 2012-10-08
Puerto Williams	MG01	Magallanes	54.9322S	67.6300W	57	From 2013-11-01
Puert Vallarta	PUVA	Jalisco,Mexico	20.6262N	105.2190W	0	From 2009-02-16
Puka	PUK	Albania	42.0427N	19.8928E	900	
Pukaskwa National Park	PNPO	Ontario,Canada	48.5957N	86.2846W	219	
Pukeiti	PKE	North Island,New Zealand	39.1939S	173.9867E	515	From 1993-12-14
Pukenui	PNHZ	North Island,New Zealand	39.9134S	176.1998E	616	From 2004-06-09
Puketiti	PUZ	North Island,New Zealand	38.0716S	178.2572E	430	From 1989-03-08
Pulasari	PULI	Jawa,Indonesia	6.3450S	105.9760E	1346	
Pulaski	T55A	Virginia,U.S.A.	37.1170N	80.7843W	644	From 2013-02-20
Pulaski	W48A	Tennessee,U.S.A.	35.1386N	86.9333W	260	From 2012-01-15
Pulaski	PUV	Virginia,U.S.A.	37.0257N	80.8158W	652	From 1978-01-01 to 2004-09-30
Pulau Batu	PBSI	Sumatera,Indonesia	0.0547S	98.2800E	0	From 2007-12-01
Pulau Pagai	PPSI	Sumatera,Indonesia	2.7630S	100.0096E	0	From 2007-12-01
Pulau-Weh	PWS	Sumatera,Indonesia	5.8333N	95.3000E		
Pulchoki	PKI	Nepal	27.5710N	85.4090E	2758	From 1978-11-01
Pulheim	PLH	Nordrhein-Westfalen,Germany	51.0040N	6.8195E	-300	From 1981-01-01
Puli Township	WPL	Taiwan region	24.0120N	120.9570E	190	From 2001-04-10
Pulkovo	PUL	Leningradskaya Oblast',Russia	59.7667N	30.3167E	65	
Pululahua	PULU	Ecuador	0.0218N	78.5022W	3114	From 2011-08-01
Pune	PUNE	Maharashtra,India	18.5296N	73.8491E	600	
Punghina	PUNG	Romania	44.2782N	22.9325E	131	From 2012-10-31
Pung Luong	NCV	Vietnam	21.6493N	104.2387E	1023	From 2009-01-01 to 2012-12-31
Puno	PUN	Peru	15.8750S	69.9961W	3860	
Punta Ardita, Choc^‡	PTAC	Colombia	7.1472N	77.8083W	78	From 2012-06-01
Punta Arenas	GO10	Magallanes,Chile	53.1546S	71.0498W	652	
Punta Arenas	PTA	Magallanes,Chile	53.1553S	70.9006W	10	
Punta Banda	PBX	Baja California,Mexico	31.7420N	116.7255W	400	From 1982-04-16
Punta Burica	PBC	Costa Rica	8.4437N	83.0708W	140	From 1985-01-01
Punta Burica Nicaragua	PBNC	Costa Rica	8.3714N	83.1271W	262	
Punta Cana	PUCA	Dominican Republic	18.5880N	68.4028W	0	
Punta Cana, DR	PCDR	Dominican Republic	18.5139N	68.3814W	6	From 2007-03-01
PUNTA DE LOS LLANOS	APLL	La Rioja,Argentina	30.3949S	66.5279W	725	From 1997-06-20
Punta Galera	PTGL	Ecuador	0.7815N	80.0304W	262	From 2008-12-04
Punta Lena	SL6*	Sicily,Italy	38.7733N	15.2147E		From 1966-04-01 to 1966-05-01
Punta Lucia	EPLC	Sicily,Italy	37.7620N	14.9860E	2930	From 1994-10-01
Punta Patache	PATCX	Chile	20.8207S	70.1529W	832	From 2009-12-02
Puntarenas	PSVT	Costa Rica	8.8216N	82.9670W	987	
Punta Talca	PUT	Santiago,Chile	33.4187S	71.6964W	25	From 1975-01-01
Puntijarka	PTJ	Croatia	45.9070N	15.9680E	1023	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Pupakea	PUP	Hawaii,U.S.A.	21.6472N	158.0280W		From 1960-01-01 to 1965-12-31
Puquio	PP06	Peru	14.6955S	74.1235W	3200	
Purari	PUR	Papua New Guinea	6.9881S	145.0730E	300	From 1975-07-11
Puriscal	PRS1	Costa Rica	9.9838N	84.3112W	1145	
Purkeypile	PPLA	Alaska,U.S.A.	62.8968N	152.1870W	1519	
Purple Mountain	YPM	Wyoming,U.S.A.	44.6572N	110.8687W	2582	
Purvis	PU-	Mississippi,U.S.A.	31.1519N	89.5489W	91	From 1965-02-26 to 1965-03-03
Purvis	PU-MS	Mississippi,U.S.A.	31.1519N	89.5489W	91	From 1965-02-26 to 1965-03-03
Pusan	PUS	Republic of Korea	35.1000N	129.0330E	71	
Pusma	PUSN	Nepal	28.8750N	81.2710E	1524	
Putnam	PUTN	New York,U.S.A.	41.3818N	73.8283W	170	
Puu Honuaula	PHO	Hawaii,U.S.A.	19.4817N	154.8900W	215	From 1970-04-01 to 2000-11-09
Puu Huluhulu	PHH	Hawaii,U.S.A.	19.3750N	155.2080W	1021	From 1969-07-01 to 1973-11-30
Puu Kaliu	PKL	Hawaii,U.S.A.	19.4580N	154.9210W	271	
Puu Kamoamoa	KMH	Hawaii,U.S.A.	19.3912N	155.1160W	750	
Puuokali	POK	Hawaii,U.S.A.	20.7333N	156.3887W	511	
Puu Pili	PPL	Hawaii,U.S.A.	19.1583N	155.4640W	35	
Puu Ulaula	PLL	Hawaii,U.S.A.	19.5333N	155.4610W	2992	
Puyallup School ANSS-SMO	PAYL	Washington,U.S.A.	47.1926N	122.3140W	9	From 2001-06-28
Puy-de-Dome	PDD	Auvergne,France	45.7667N	2.9667E	1450	
Puyloubier	PUYF	Provence-Cote d'Azur,France	43.5323N	5.7003E	460	
PUYLOUBIER	LEPF	Provence-Cote d'Azur,France	43.5230N	5.7020E	345	From 2007-08-13
Puyo	APUY	Ecuador	1.4591S	77.9956W	952	From 2012-07-13
Puyo, Santa Rosa	PUYO	Ecuador	1.4928S	78.0239W	1040	From 2012-06-28
Puysegur Point	PYZ	South Island,New Zealand	46.1663S	166.6807E	277	From 2007-05-01
Puysegur Point	PPZ	South Island,New Zealand	46.1406S	166.6270E	3	From 1972-04-06 to 1972-04-24
Puzi	WLGB	Taiwan region	23.4777N	120.2999E	16	From 2002-11-30
Pyatigorsk	PYA1	Russia	44.0625N	43.0958E	614	From 2008-10-02
Pyatigorsk	PYA	Stavropol'skiy Kray,Russia	44.0333N	43.0583E	544	
Pyeongchang	KSPYC	Republic of Korea	37.3713N	128.3906E	331	From 2007-12-12
Pylos	PYL2	Greece	36.9142N	21.6954E	4	From 2010-11-01
PYLOS	PYL	Greece	36.8955N	21.7420E	227	From 2006-02-01
Pyongyang	PYO	Democratic People's Republic of Korea	39.0333N	125.7500E	51	
Pyramid	PYR	California,U.S.A.	34.5680N	118.7410W	1247	
Pyrgos	PYR2	Greece	37.6671N	21.4506E	6	From 2010-11-01
PYRGOS	PYR3	Greece	37.6787N	21.4623E	56	From 2013-01-15
Pyrgos, Dorida, Greece	PYRG	Greece	38.4102N	22.0168E	595	From 2001-06-09
QAANAAQ INFRASONIC ARRAY REFERENCE POINT	IM8DK	Greenland	77.4756N	69.2878W	88	From 2002-09-05
Qafa e Shtames	QSH	Albania	41.5216N	19.9050E	1100	
Qairoon Hariti	QHRO	Oman	17.2528N	54.0854E	790	From 1998-08-27
Qangwa	QNG1	Botswana	19.5250S	21.2080E	1050	From 2001-01-01 to 2100-12-31
Qaraoun	QRWL	Lebanon	33.5477N	35.6822E	875	From 2011-10-01
Qassim	QASM	Saudi Arabia	26.0900N	43.5360E	675	From 1988-01-01
Qassioun	QASN	Syria	33.5328N	36.2761E	990	From 1994-12-01
Qatafi	QTFJ	Jordan	31.8230N	37.4800E	648	From 1990-03-05
Qatrana	QTRJ	Jordan	31.3000N	36.0100E	876	From 1988-02-20
Qazax, Azerbaijan	QZX	Azerbaijan	41.0580N	45.3720E	563	From 2010-01-19
Qibla Bandi	QIB	Pakistan	33.9007N	72.5925E	396	
Qililugaq Exploration Camp	QILN	Northwest Territories,Canada	66.6531N	86.3709W	115	
Qimei	VCHM	Taiwan region	23.2087N	119.4295E	60	From 2010-04-27
Qingdao	TSN	Shandong,China	36.0667N	120.3170E	70	
Qiongzhong	QIZ	Hainan Dao,China	19.0294N	109.8430E	230	
Qobustan	GBS	Azerbaijan	40.5350N	48.9420E	827	From 2011-04-06
Qom	IQOM	Iran	34.8424N	51.0703E	2270	From 1996-01-01
Qoradiz	QRD	Azerbaijan	39.4615N	47.3203E	300	From 2013-10-18
Qsaybeh	QSB	Lebanon	33.8710N	35.6443E	550	
Quabbin	QUA	Massachusetts,U.S.A.	42.4566N	72.3738W	201	From 1977-05-07 to 1999-01-31
Quadrado	QAD	Luzon,Philippines	15.0440N	120.3540E		
Quail	IP07	Virginia,U.S.A.	37.9185N	78.0296W	138	
Quail Lake	QAL	California,U.S.A.	34.7497N	118.7150W	1256	
Qualls	QUAR	Arkansas,U.S.A.	35.6439N	90.6491W	115	
Quanzhou	QZN	Fujian,China	24.9431N	118.5920E	21	From 1970-10-01
Quanzhou	QZH	Fujian,China	24.9431N	118.5920E	21	From 1970-10-01
Quarantoli, Mirandola (MO)	MIR08	Italy	44.9169N	11.0895E	14	From 2012-05-24
Quarry, Mount Saint Helens	B203	Washington,U.S.A.	46.1690N	122.3337W	595	
Quarto	QRI	Italy	40.8780N	14.1458E		
Quartz Hill	QHW	North Island,New Zealand	41.2503S	174.6907E	190	From 1985-09-27 to 1988-09-28
Quartzite Mountain	QM-NV	Nevada,U.S.A.	37.5631N	116.3178W	1878	
Quartz Mountain	QMO	Oklahoma,U.S.A.	34.8929N	99.3071W	479	From 1977-07-29 to 1980-12-31
Quartz Mountain State Park	QZO	Oklahoma,U.S.A.	34.9052N	99.3053W	488	
Quartz Range	QRZ	South Island,New Zealand	40.8255S	172.5292E	263	From 1990-04-26
Quattro Castella	QCI	Italy	43.8167N	11.2167E	120	
Quba	KUB	Azerbaijan	41.3300N	48.5000E	980	From 1998-01-01
Quba	QUB	Azerbaijan	41.3800N	48.3600E	1000	From 1978-01-01 to 1998-01-01
Quba, Azerbaijan	QUBA	Azerbaijan	41.3550N	48.4930E	645	From 2003-03-29
Qucahn	IQHU	Iran	37.0730N	58.5394E	1320	From 1997-03-01
Quebec	QCQ	Quebec,Canada	46.7789N	71.2758W	91	
Quebec	QCL	Quebec,Canada	46.7789N	71.2758W	91	
Quebec	QBC	Quebec,Canada	46.7789N	71.2758W	91	
Quebrada Arriba	QARV	Venezuela	10.2070N	70.5240W	578	From 2002-03-26
Quebradillas	QBPR	Puerto Rico	18.4772N	66.9388W	74	From 2013-07-01
Queen Anne	QAW	Washington,U.S.A.	47.6317N	122.3543W	140	
Queen Charlotte	QCC	British Columbia,Canada	53.2550N	132.0880W	3	
Queen City Summit	QCS	Nevada,U.S.A.	37.7574N	115.9409W	1899	From 1979-06-08 to 2002-10-10
Queen Creek	QC-	Arizona,U.S.A.	33.1842N	111.6340W	610	
Queen of Sheba Mine	QSM	California,U.S.A.	35.9650N	116.8682W	396	From 1978-11-28
Queensboro Lake	QLNY	New York,U.S.A.	41.3092N	74.0375W	238	
Queensbury	QMB	England,United Kingdom	53.7650N	1.8575W	116	From 1974-07-10 to 1979-11-15
Queens College	CUNY	New York,U.S.A.	40.7335N	73.8178W	20	
Queens East	JQE	Channel Islands,United Kingdom	49.2000N	2.0383W	58	
Queenstown	QTN	Tasmania,Australia	43.1000S	145.6000E		
Quello@15n	QLLN	Chile	43.1044S	73.6223W	129	
Quemado	X20A	New Mexico,U.S.A.	34.5421N	108.4980W	2057	From 2008-02-05 to 2009-11-24
Quentar	EQUE	Spain	37.2050N	3.4400W	1050	From 1995-04-15
Quepos	QCR1	Costa Rica	9.4253N	84.1678W	45	
Quepos	QPSR	Costa Rica	9.3919N	84.1239W	52	
Quepos	QPS	Costa Rica	9.4031N	84.1322W	83	From 1984-03-17
Quepos	QCR	Costa Rica	9.4241N	84.1653W	45	
Queretaro	QUIG	Queretaro de Arteaga,Mexico	20.7000N	100.2800W		
Quesada	EQES	Spain	37.8028N	3.0711W	1140	
Quesnel	QN-BC	British Columbia,Canada	52.9569N	122.3958W	610	From 1962-10-26 to 1962-10-27
Quesnel	QN-	British Columbia,Canada	52.9569N	122.3958W	610	From 1962-10-26 to 1962-10-27
Quetta	QUE	Pakistan	30.1883N	66.9500E	1721	From 1954-01-01
Quetta	QUET	Pakistan	30.2300N	66.9800E	1636	From 2007-11-10
Quetta	QTA	Pakistan	30.2106N	67.0189E	1900	From 2000-01-01 to 2010-12-30
Quevedo	QUEV	Ecuador	1.0420S	79.2975W	141	From 2012-05-11
Quevedo	AQUE	Ecuador	1.0481S	79.4912W	84	From 2010-08-05
Quezalapa	QZA	El Salvador	13.5239N	88.9969W	250	
Quezaltepeque	QZG	Guatemala	14.6363N	89.3840W	1798	From 1981-01-01
Quezon City	QCP	Luzon,Philippines	14.6370N	121.0770E	58	
Quezon City--PHIVOLCS	QVPH	Luzon,Philippines	14.6520N	121.0580E	45	
Quezon City--PHIVOLCS	QVP	Luzon,Philippines	14.6230N	121.0040E	15	From 1991-01-01
Quiabu	QUIN	Nicaragua	13.1250N	86.4167W	1605	
Quien Sabe	AN13*	California,U.S.A.	36.8337N	121.2130W	536	From 1969-05-29
Quien Sabe	HQRH	California,U.S.A.	36.8337N	121.2130W	536	From 1969-05-29
Quien Sabe Ranch	QSR	California,U.S.A.	36.8337N	121.2130W	536	From 1969-05-29
Quilcene	B013	Washington,U.S.A.	47.8130N	122.9108W	-87	
Quiliano	QLNO	Italy	44.3242N	8.3459E	547	From 2002-02-19
Quillagua	QUL	Antofagasta,Chile	21.6556S	69.5283W	800	
Quillayute Airport, Forks	C03A	Washington,U.S.A.	47.9475N	124.5662W	48	From 2005-10-20 to 2008-02-14
Quillmana	QUM	Peru	12.9550S	76.3867W	500	
Quilmana	PT02	Peru	12.9433S	76.4367W	500	
Quilotoa	QIL2	Ecuador	0.8689S	78.9167W	3923	From 2007-08-08
Quilotoa	QUIL	Ecuador	0.7569S	78.9252W	3430	From 1991-01-01
Quilotoa	QIL1	Ecuador	0.8453S	78.9338W	3340	From 1992-05-13
Quilpie	QLP	Queensland,Australia	26.5822S	144.2345E	210	From 1989-08-12
Quincy	D07A	Washington,U.S.A.	47.1936N	119.9732W	453	From 2006-08-30 to 2008-05-10
Quincy	O05C	California,U.S.A.	39.9620N	120.9176W	1032	From 2005-04-20 to 2007-11-20
Quinn	I27A	South Dakota,U.S.A.	44.0690N	102.0525W	867	From 2009-06-17 to 2011-05-08

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Quinn River	QNR	Nevada,U.S.A.	41.6972N	117.9550W	1433	
Quinn River Valley	QRV	Nevada,U.S.A.	41.6972N	117.9550W	1433	From 1974-03-01 to 1975-08-31
Quinter	Q30A	Kansas,U.S.A.	38.9772N	100.2207W	797	From 2009-05-14 to 2011-03-20
Quinton	W37B	Oklahoma,U.S.A.	35.1390N	95.4316W	279	From 2011-01-28
Quinton	W37A	Oklahoma,U.S.A.	35.1380N	95.4269W	281	From 2010-04-23 to 2010-11-26
Quinzano	GRDQ	Italy	45.2984N	10.0336E	57	From 2011-03-15
Quistinic	QUIF	Bretagne,France	47.9167N	3.1656W	125	From 1996-04-03
Quititos	QITI	Ecuador	0.7858N	79.9995W	386	From 1992-04-28
Quititos 2	QIT2	Ecuador	0.7732N	80.0397W	284	
Quitman	454A	Georgia,U.S.A.	30.7145N	83.6302W	50	From 2012-02-12
Quitman	247A	Mississippi,U.S.A.	32.0530N	88.6102W	109	From 2011-04-09 to 2013-01-21
Quito	QTO	Ecuador	0.2084S	78.5322W	3270	From 1988-09-01 to 1991-12-30
Quito	OAQ	Ecuador	0.2158S	78.4989W	2816	From 1978-03-01 to 1980-12-31
Quito	QUI	Ecuador	0.2001S	78.5005W	2837	
Quito-Colegio Militar	COMIL	Ecuador	0.1962S	78.4895W	2804	From 2010-08-19
Qund	QUND	Ecuador	0.3168N	79.4807W	330	From 1994-04-01 to 1994-09-30
Qurayyt al Milh	QURS	Saudi Arabia	31.3860N	37.3240E	491	
Qusar	QSAR	Azerbaijan	41.5150N	48.2630E	638	From 2011-04-12
Qutrana	QUTJ	Jordan	31.2987N	36.0100E	876	From 1987-01-01
Qyzylaghash	KZAG	Kazakhstan	45.3710N	78.7220E	510	
Rabalanakaia	RAL	New Britain,Papua New Guinea	4.2203S	152.2020E	91	From 1967-01-01
Rabat	RBA	Morocco	34.0089N	6.8406W	39	From 1966-03-01
Rabat Centre	RTC	Morocco	33.9881N	6.8569W	50	
Rabat Zaers	RBZ	Morocco	33.9292N	6.8400W	116	From 1968-01-01 to 1977-12-31
Rabaul	RABL	Papua New Guinea	4.1911S	152.1637E	277	From 2009-04-01
Rabaul	RAB	New Britain,Papua New Guinea	4.1927S	152.1630E	185	From 1940-01-01
Rabaul (IGS)	ERB	New Britain,Papua New Guinea	4.1932S	152.1620E	180	
Rabbit Creek Array Site 1	RC01	Alaska,U.S.A.	61.0894N	149.7367W	374	
Rabinal	RDG	Guatemala	15.0075N	90.4718W	1930	From 1978-06-01
Rabkut	RBK	Oman	17.5035N	54.2039E	550	From 2001-07-01
Racchiusole (Umbertide) PG	AT05	Italy	43.2329N	12.2715E	494	From 2010-04-01
Rachaya	RCY	Lebanon	33.4965N	35.8357E	1370	From 2006-06-01
Rachel	S11A	Nevada,U.S.A.	37.6444N	115.7472W	1456	From 2007-01-23 to 2008-09-15
Racherla	RCLA	Andhra Pradesh,India	15.4568N	78.9551E	252	From 2009-11-07
Raciborz	RAC	Poland	50.0833N	18.1942E	209	
Rackout Springs	KRKM	California,U.S.A.	39.5628N	123.1820W	1280	
Radio Antilles	RSV	St Vincent,Saint Vincent and the Grenadines	13.3070N	61.2360W	8	From 1979-11-20
Radium Mtn., Paradox Valley	PV13	Colorado,U.S.A.	38.1589N	108.8203W	2158	
Raeford	W58A	North Carolina,U.S.A.	35.0208N	79.2333W	84	From 2013-03-23
Raffo Rosso	RAFF	Sicily,Italy	37.2225N	14.3624E	310	From 2005-12-22
Rafsanjan	RFDD	Iran	30.5200N	56.2600E	0	
RAFT	RAFT	Washington,U.S.A.	46.1957N	122.1863W	2132	
Rafter H Ranch, Green River	Q18A	Utah,U.S.A.	39.1025N	110.1328W	1295	From 2007-07-14 to 2009-03-09
Ragged Mountain	RGD	Alaska,U.S.A.	60.2192N	144.5460W	610	
Ragged Mountain	RAGM	Alaska,U.S.A.	60.3870N	144.6750W	739	From 1984-01-01
Rahkiv	RAKU	Ukraine	48.0259N	24.1663E	440	From 2004-07-01
Raibl	RBL	Italy	46.4417N	13.5683E	900	From 1978-02-06 to 1988-01-01
Railroad Flat South	MRFM	California,U.S.A.	38.2453N	120.5210W	799	From 1976-07-12
Rainbow Creek	VRC	Oregon,U.S.A.	42.3367N	122.2180W		From 1993-10-07
Rainbow Monument	RMU	Utah,U.S.A.	37.0760N	110.9700W	1536	
Rainbow Mountain	RBY	North Island,New Zealand	38.3194S	176.3880E	730	From 1984-01-03 to 1984-04-22
Rainelle	RN-WV	West Virginia,U.S.A.	38.0764N	80.8483W	853	From 1962-12-31 to 1963-05-16
Rainelle	RN-	West Virginia,U.S.A.	38.0764N	80.8483W	853	From 1962-12-31 to 1963-05-16
Rainier	RAIO	Washington,U.S.A.	46.0403N	122.8851W	11	
Rainier, OR	F04D	Oregon,U.S.A.	46.0829N	123.0108W	236	From 2009-11-14
Rainshed	RSD	Hawaii,U.S.A.	19.4630N	155.2780W	1270	
Rainy Point	RAEZ	North Island,New Zealand	39.2865S	174.3935E	326	From 1997-05-30 to 2010-02-23
Rajabasa	RBSI	Sumatera,Indonesia	5.8445S	105.7420E	0	From 2007-12-01
Rakhov	RAK	Ukraine	48.0550N	24.1980E	460	
Raleigh	RALT	Tennessee,U.S.A.	35.2060N	89.9410W	100	
Raluana Point	RPT	New Britain,Papua New Guinea	4.2952S	152.2160E	1	From 1972-01-01
Ramage Ranch	RAMR	California,U.S.A.	35.6360N	120.8698W	416	
Ramage Ranch, Paso Robles	V04C	California,U.S.A.	35.6360N	120.8699W	431	From 2004-06-07 to 2007-09-01
Ramah	W20A	New Mexico,U.S.A.	35.1259N	108.5001W	2110	From 2008-01-13 to 2010-02-07
Raman	RAM	Turkey	37.7658N	41.2925E	850	From 1964-01-01
Ramapo Mountain	RAMA	New Jersey,U.S.A.	41.0952N	74.1807W	247	From 1978-11-21
Ramban	RMBN	Jammu and Kashmir,India	33.2312N	75.2455E		
Ramesheh	IRAM	Iran	31.8088N	52.3815E	2000	From 2000-09-01
Ramhormoz	RMKL	Iran	30.9820N	49.8090E	176	From 2008-01-22
Ramite	RAMN	Nepal	26.9500N	86.6000E	2134	From 1994-04-01
Rammel Mountain	RAMW	Wyoming,U.S.A.	43.8890N	110.9500W	2512	From 1986-01-01
Rampart Ranch, Las Vegas	V24A	New Mexico,U.S.A.	35.7259N	105.2716W	2187	From 2008-06-03 to 2010-04-02
Rampur	RPR	Andhra Pradesh,India	18.8579N	79.2939E	162	From 2008-10-01
Rancho Bola	RANB	Spain	36.6328N	6.1384W	65	From 1993-04-01 to 2003-05-07
Rancho Dawling	RDX	Baja California,Mexico	31.9282N	115.9422W	1708	From 1989-09-29
Rancho Los Cerritos	LCL	California,U.S.A.	33.8333N	118.1920W	8	
Rancho Maria	CAMI	Ecuador	0.6767S	78.5047W	3630	From 2005-05-17
Rancho Maria	MARY	Ecuador	0.7337S	78.4867W	3700	From 1990-09-07
Rancho Navarro	GRNM	California,U.S.A.	39.1753N	123.5760W	73	
Rancho No Tengo, Wagon Mound	V25A	New Mexico,U.S.A.	35.8383N	104.6164W	1861	From 2008-05-17 to 2010-04-10
Rancho Palos Verdes	RPV	California,U.S.A.	33.7433N	118.4043W	64	From 1993-01-01
Rancho San Jose	RSJ	Baja California,Mexico	30.9733N	115.7450W	650	
Rancolfo	B001	Italy	43.2550N	12.4317E	494	From 2011-02-08
Randall Ranch, Ashland	T31A	Kansas,U.S.A.	37.0977N	99.6771W	564	From 2009-04-01 to 2011-03-11
Randle	E05A	Washington,U.S.A.	46.5605N	121.7608W	1481	From 2005-10-28 to 2008-02-11
Randolf College Riding Center, Lynchburg	RCRC	Virginia,U.S.A.	37.4320N	79.2718W	271	
Rand Water	RDWR	South Africa	26.2901S	28.0370E	1645	From 2010-01-01
Rangdo, Negare	RTBI	Bali,Indonesia	8.4597S	114.9420E	300	
Rangely	RGC	Colorado,U.S.A.	40.1042N	108.9270W	1610	From 1975-02-01
Rangipo	RGZ	North Island,New Zealand	39.1535S	175.8340E	820	From 1984-07-19 to 1989-03-31
Rangitukua	RATZ	North Island,New Zealand	38.8665S	175.7722E	653	From 1984-11-21
Rangndo	RANI	Bali,Indonesia	8.4525S	114.9490E	500	
Rangoon	RAN	Myanmar	16.8667N	96.1833E	14	
Rankin Inlet	YRTN	Northwest Territories,Canada	62.8104N	92.1096W	23	
Ranney Well	RWW	Washington,U.S.A.	46.9639N	123.5433W	15	
Ranong	RNTT	Thailand	9.3904N	98.4778E	38	
Ransiki, Papua	RKPI	Irian Jaya,Indonesia	1.5107S	134.1773E	106	From 2008-12-01
Rantau Prapat	RPSI	Sumatera,Indonesia	2.6951N	98.9240E	0	From 2007-12-01
Ranyah	RNYS	Saudi Arabia	21.4267N	42.7662E		
Raoul Island	RAO	Kermadec Islands,New Zealand	29.2517S	177.9180W	110	
Raoul Island	RIZ	Kermadec Islands,New Zealand	29.2449S	177.9289W	110	From 2009-06-01
Rapa Nui	RPN	Easter Island,Chile	27.1267S	109.3340W	110	From 1987-07-01
Rapidan	R58A	Virginia,U.S.A.	38.2989N	78.0034W	184	From 2013-04-17
Rapid City	RCD	South Dakota,U.S.A.	44.0750N	103.2080W	995	From 1943-01-01
Rapindik	RAP	New Britain,Papua New Guinea	4.2289S	152.1970E	3	From 1950-01-01 to 1958-12-31
Rarotonga	RAR	Cook Islands	21.2125S	159.7730W	28	From 1965-08-01
Rasa	RASA	Romania	44.2144N	27.1493E	50	From 2012-10-31
Ras Al Marh	MARH	Syria	34.0261N	36.4817E	2640	From 1994-12-01
RASCA	PRAR	Romania	47.3617N	26.2276E	451	From 2008-11-27
Ras En-Naqb	NAQJ	Jordan	30.0000N	35.5050E	1640	From 1990-03-15
Raspberry Island	RAI	Alaska,U.S.A.	58.0605N	153.1590W	520	From 1975-10-01
Rassina, Castel Focognano (AR)	ARAS	Italy	43.6541N	11.8432E	326	From 2011-05-24 to 2011-09-30
Rata	RATI	Bali,Indonesia	8.7233S	115.5320E	400	
Rata Peaks	RPZ	South Island,New Zealand	43.7146S	171.0539E	403	From 2001-06-06
Rataul	RTUL	Uttar Pradesh,India	28.8322N	77.3418E	0	
Rath Farm, Roundup	E19A	Montana,U.S.A.	46.4611N	108.7860W	1059	From 2008-08-13 to 2010-06-06
Rathfarnham	DUB	Ireland	53.2986N	6.2825W	52	
Rat Island	RAT	Alaska,U.S.A.	51.7991N	178.3300E	226	From 1970-10-14 to 1973-04-30
Raton	RT-NM	New Mexico,U.S.A.	36.7294N	104.3603W	1951	From 1961-12-04 to 1965-03-22
Raton	RT-	New Mexico,U.S.A.	36.7294N	104.3603W	1951	From 1961-12-04 to 1965-03-22
Rattlesnake Hills	RSW	Washington,U.S.A.	46.3945N	119.5913W	1045	From 1970-07-01
Rattlesnake Lake	RATT	Washington,U.S.A.	47.4255N	121.8025W	440	
Rattlesnake Mountain	RMW	Washington,U.S.A.	47.4597N	121.8050W	1024	
Rattlesnake Point	ORAM	California,U.S.A.	39.4687N	121.4130W	588	From 1975-08-05
Raukumara Range	RUGZ	North Island,New Zealand	37.9651S	177.6775E	1175	From 2011-05-19
RAUL	RAUL	Bolivia	19.2999S	60.7065W	335	From 1994-11-29 to 1995-02-02
Rauma	RAF	Finland	61.0230N	21.7640E	30	From 2005-10-31
Raurimu	RUZ	North Island,New Zealand	39.1252S	175.3380E	450	From 1990-08-14 to 1992-05-28
Rausu	JRA	Nemuro,Japan	43.9378N	145.1220E	10	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Rauvai	RUV	Tuamotu,French Polynesia	15.1889S	147.3840W	3	
Ravarino	RAVA	Italy	44.7559N	11.1188E	15	From 2003-11-10
Ravensbos	RSB	Netherlands	50.8883N	5.8325E	135	From 1970-02-01 to 1972-04-10
Ravensburg	RAV	Baden-Wurttemberg,Germany	47.7870N	9.6216E	460	From 1914-01-01 to 1994-09-30
Raver	RAW	Washington,U.S.A.	47.3372N	121.9314W	208	
Ravine Marchand	RMGF	Guadeloupe,France	16.0443N	61.6657W	1150	
Rawhide Mountain	RH-NV	Nevada,U.S.A.	38.2267N	116.3814W	1768	
Rawiri	RAGZ	North Island,New Zealand	38.4956S	177.4154E	889	From 2008-07-02
Rawlins	L21A	Wyoming,U.S.A.	41.9641N	107.3695W	2065	From 2007-10-31 to 2009-10-10
Rawlins	RWWY	Wyoming,U.S.A.	41.6889N	107.2102W	2402	From 2004-09-01
Raymond	B019	Washington,U.S.A.	46.6527N	123.6518W	9	
Raymond Alberta	RAYA	Alberta,Canada	49.3863N	112.6873W	1023	From 2010-07-09
Raywood Flat	RAY	California,U.S.A.	34.0363N	116.8110W	2342	
Razeghan	IRAZ	Iran	35.4046N	49.9290E	1950	From 1996-01-01
Razgrad	RAZG	Bulgaria	43.5662N	26.5079E	383	From 2012-11-20
Reactor, Bogot^¡	REAC	Colombia	4.6420N	74.0950W	2554	From 1996-01-19
Reagan Ranch, Oscar	Y34A	Oklahoma,U.S.A.	33.9574N	97.7573W	262	From 2009-11-07 to 2011-09-05
Reales	REAL	Spain	36.4840N	5.2078W	1452	
Reason Mountain	RMNB	California,U.S.A.	36.0009N	120.4777W	1091	
Reay	ORE	Scotland,United Kingdom	58.5480N	3.7622W	100	From 1995-09-21
Rebuntou	JRBN	Hokkaido,Japan	45.4234N	141.0650E	15	From 2013-07-01
Receiver Site	NYR	Nevada,U.S.A.	37.0553N	116.0920W	1279	From 1971-01-01 to 1973-01-31
Reche Mountain	RCH	California,U.S.A.	34.3073N	116.3500W	841	From 1979-04-01
Recreation Park	RCP2	California,U.S.A.	33.7777N	118.1330W	-85	From 1985-03-22
Recreo	REC	Guatemala	14.4375N	90.5227W	1500	From 1975-04-01
Rector	U43A	Arkansas,U.S.A.	36.3693N	90.4057W	96	From 2011-07-21 to 2013-03-15
Rector, Farmersville	RCTC	California,U.S.A.	36.3052N	119.2438W	107	From 1999-10-11
Red Bluff	O02C	California,U.S.A.	40.1767N	122.7883W	962	From 2005-07-20 to 2007-10-11
Red Boiling Springs	U49A	Tennessee,U.S.A.	36.5129N	85.7796W	234	From 2012-05-22
Red Bud	R43A	Illinois,U.S.A.	38.2760N	89.9308W	186	From 2011-08-03 to 2013-04-28
Red Butte Canyon	RBU	Utah,U.S.A.	40.7808N	111.8080W	1676	From 1974-06-01
Red Cone	RCO	Hawaii,U.S.A.	19.4060N	155.6298W	3601	
Red Cones	MRDM	California,U.S.A.	37.5978N	119.0587W	2657	
Reddig Ranch South, Frazer	B22A	Montana,U.S.A.	48.3008N	105.9964W	836	From 2008-09-14 to 2010-07-15
Redding Peak	LRDM	California,U.S.A.	40.4642N	121.4610W	859	From 1976-11-12
Red Dirt Ranch, Kanab	T15A	Utah,U.S.A.	37.0183N	112.3824W	1561	From 2007-02-14 to 2008-11-11
Red Dog Mine	RDOG	Alaska,U.S.A.	68.0547N	162.9049W	421	
Red Earth Creek	RDEA	Alberta,Canada	56.5513N	115.3179W	0	From 2011-06-08
Redenius Farm, Forest	J37A	Iowa,U.S.A.	43.3103N	93.5527W	385	From 2010-10-06 to 2012-09-10
Red Feather Lakes	N23A	Colorado,U.S.A.	40.8947N	105.9440W	2458	From 2008-07-05 to 2599-12-31
Redhead, NSW Australia	REDH	New South Wales,Australia	33.0197S	151.6975E	8	From 2011-01-01
Red Hill	RHT	Tennessee,U.S.A.	35.0781N	84.8825W	299	
Red Hills	RHJ	Jamaica	18.0707N	76.8540W	779	From 1993-11-01
Redig	RG-SD	South Dakota,U.S.A.	45.2164N	103.5347W	945	From 1965-10-25 to 1966-09-26
Redig	RG-	South Dakota,U.S.A.	45.2164N	103.5347W	945	From 1965-10-25 to 1966-09-26
Red Ives Forest Station, Avery	D12A	Idaho,U.S.A.	47.0528N	115.3525W	1135	From 2006-11-08 to 2009-07-21
Red Lake	RK-	Ontario,Canada	50.8389N	93.6722W	366	
Red Lake	RLKO	Ontario,Canada	51.0704N	93.7585W	362	From 2004-11-19
Red Lake	RSON	Ontario,Canada	50.8589N	93.7022W	335	From 1982-01-01 to 1990-10-01
Red Lake	RK-ON	Ontario,Canada	50.8389N	93.6722W	366	
Red Lake	RDLO	Ontario,Canada	50.9745N	93.9124W	390	
Red Lodge	RLMT	Montana,U.S.A.	45.1221N	109.2673W	2086	From 2006-09-12
Red Lodge	YPRL	Montana,U.S.A.	45.1617N	109.3017W	1951	
Red Mountain	KRMM	California,U.S.A.	41.5221N	123.9063W	1247	
Red Mountain	REDWA	Washington,U.S.A.	46.2987N	119.4383W	366	
Red Mountain	KRMB	California,U.S.A.	41.5230N	123.9080W	1265	
Red Mountain	RDMU	Utah,U.S.A.	40.5708N	109.5695W	2087	From 2009-12-02
Redondo Peak	REDP	New Mexico,U.S.A.	35.8711N	106.5630W	3417	From 1977-10-01
Redoubt	RDT	Alaska,U.S.A.	60.5738N	152.4060W	930	From 1971-08-09
Redoubt East 2	RDDR	Alaska,U.S.A.	60.5849N	152.5863W	905	
Redoubt East Flank	REF	Alaska,U.S.A.	60.4892N	152.7020W	1801	From 1990-03-14
Redoubt Jeurgen	RDJH	Alaska,U.S.A.	60.5911N	152.8036W	1414	
Redoubt North	RDN	Alaska,U.S.A.	60.5138N	152.7630W	1372	From 1988-01-01
Redoubt South	RDSO	Alaska,U.S.A.	60.4542N	152.7430W	1557	
Redoubt South	RSO	Alaska,U.S.A.	60.4622N	152.7540W	1921	From 1990-03-01
Redoubt South 1	RS1	Alaska,U.S.A.	60.4602N	152.7580W	1864	From 1990-09-10
Redoubt South 2	RS2	Alaska,U.S.A.	60.4630N	152.7573W	1953	From 1990-09-10
Redoubt Volcano	RED	Alaska,U.S.A.	60.4189N	152.7720W	1067	From 1974-01-01
Redoubt Vol. East	RDE	Alaska,U.S.A.	60.5869N	152.5925W	564	
Redoubt West	RDW	Alaska,U.S.A.	60.4827N	152.8100W	1813	From 1990-09-07
Redoubt West	RDWB	Alaska,U.S.A.	60.4881N	152.8402W	1546	
Red Ridge	RRI	Idaho,U.S.A.	43.3630N	111.3380W	2408	From 1985-07-20 to 1986-07-02
Red Ridge	RRI2	Idaho,U.S.A.	43.3474N	111.3201W	2558	From 1986-07-02
Red Rock Canyon	RRO	Oklahoma,U.S.A.	35.4569N	98.3584W	482	From 1978-08-09
Red Rock Canyon	MRCM	California,U.S.A.	37.6737N	118.5071W	2023	From 1986-07-23
Red Spur Mountain	RSUT	Utah,U.S.A.	41.6385N	111.4150W	2682	From 1979-10-01
Redstone	A23A	Montana,U.S.A.	48.9592N	104.8786W	665	From 2008-09-10 to 2010-07-14
Red Top Meadow	REDW	Wyoming,U.S.A.	43.3624N	110.8520W	2192	From 1986-01-01
Redvale	R20A	Colorado,U.S.A.	38.1888N	108.3792W	2003	From 2008-01-05 to 2010-02-07
Redwood Retreat	JRRM	California,U.S.A.	37.0545N	121.7270W	408	From 1976-01-09
Reed	REKY	Kentucky,U.S.A.	37.8520N	87.3280W	0	
Reed City	I46A	Michigan,U.S.A.	43.9411N	85.4472W	359	From 2012-11-05
Reedsville	P55A	West Virginia,U.S.A.	39.5078N	79.8265W	551	From 2012-12-14
Reedy Creek 5	WRCQ	Queensland,Australia	27.1874S	152.6631E		From 1984-07-11
Rees Ranch, Coalville	N16A	Utah,U.S.A.	40.8869N	111.4370W	2028	From 2007-07-10 to 2009-04-07
Refahiye_ERZ¯NCAN	REFA	Turkey	39.3960N	38.7651E	1594	From 2010-10-27
Reffroy	RFYF	Champagne-Ardenne,France	48.6289N	5.4741E	330	From 2002-08-20
Refrontolo, Italy	MREF	Italy	45.9249N	12.2117E	268	From 2010-06-08
Refugio	RETU	Ecuador	1.4512S	78.4460W	4050	From 1994-12-02
Refugio Cayambe	CAYR	Ecuador	0.0153N	78.0066W	4868	
Refugio Guagua Pichincha	GGP	Ecuador	0.1743S	78.5947W	4420	From 1988-09-30
Regan	D28A	North Dakota,U.S.A.	47.1929N	100.5692W	621	From 2009-08-04 to 2011-06-29
Regar	REG*	Tajikistan	38.5000N	68.2333E		
Regar	RGR	Tajikistan	38.5000N	68.2333E		
Reggio Calabria	MRCB	Italy	38.1620N	15.7030E	500	From 1993-12-01
Reggio Calabria	RCI	Italy	38.1056N	15.6433E	29	
Reggio Calabria	CRCA	Italy	38.1120N	15.6470E	30	From 2008-01-02
Region of Thessaloniki	PRF2	Greece	40.5927N	22.9556E	30	From 2010-08-01
Reichold	RHA	Alabama,U.S.A.	33.2417N	87.4660W	83	From 1971-01-09
Reidovoe	REI	Sakhalinskaya Oblast',Russia	45.2667N	148.0167E		
Reims	RMSF	Champagne-Ardenne,France	49.2820N	4.0210E	110	From 2008-01-01
Rein	RISI	Italy	46.9480N	12.0787E	1785	From 2006-12-13
Reinach, Rainenweg	SRER	Switzerland	47.5116N	7.5979E	343	From 2011-04-01
Reinach, Reinacherhof	SRNR	Switzerland	47.5111N	7.6034E	341	From 1997-08-07
Reindeer	RND	Alaska,U.S.A.	63.4062N	148.8530W	991	From 1986-01-01
Reinke Road, Clintonville	WI02	Wisconsin,U.S.A.	44.5961N	88.7696W	260	
Rekieta Farm, Paducah	Y31A	Texas,U.S.A.	33.9620N	100.2615W	530	From 2009-03-16 to 2011-02-12
Reko	RKS	Solomon Islands,Papua New Guinea	9.1564S	159.8080E		
Relizane	REL	Algeria	35.7500N	0.5500E	75	From 1955-01-01 to 1961-12-31
Relizane	RLA	Algeria	35.5833N	0.5833E	180	
Rembrandt	REMW	Washington,U.S.A.	46.1992N	122.1840W	2102	From 1987-01-01
Remer	D35A	Minnesota,U.S.A.	47.0810N	94.0529W	427	From 2010-08-27 to 2012-07-30
Remote	REM	Alaska,U.S.A.	65.9550N	164.5780W	300	
Remote	RON	Alaska,U.S.A.	62.6912N	150.2040W	470	From 1971-08-01 to 1974-10-31
Remsen	J58A	New York,U.S.A.	43.3603N	75.2852W	436	From 2013-08-27
Renai	CHGB	Taiwan region	24.0602N	121.1740E	1850	From 2005-08-02
Renai	OWD	Taiwan region	23.9545N	121.1759E	1263	From 2011-12-22
Renca	MT05	Metropolitana	33.3919S	70.7381W	765	From 2013-10-21
Renegade Can. W	WRCM	California,U.S.A.	35.9502N	117.6470W	954	From 1975-09-26
Renegade Canyon West	RCWM	California,U.S.A.	35.9502N	117.6470W	954	From 1975-09-26
Rengat	RGRI	Sumatera,Indonesia	0.3491S	102.3338E	41	From 2005-01-01
Renmark High School	AURMK	South Australia,Australia	34.1700S	140.7400E	26	From 2013-08-11
Rennes	RENF	Bretagne,France	48.1190N	1.6350W	40	
Reno	REN	Nevada,U.S.A.	39.5400N	119.8130W	1383	From 1911-01-01 to 1975-02-28
Reno Superiore	RSP	Italy	45.1482N	7.2653E	1285	From 1986-01-01
Rentapao	RTV	Vanuatu	17.7925S	168.4250E		
Renzetti	ATRE	Italy	43.5461N	12.2639E	462	From 2013-09-17
Repton	349A	Alabama,U.S.A.	31.3504N	87.1924W	88	From 2012-01-20
Repubblica di San Marino	RSM	San Marino	43.9303N	12.4497E	645	From 1988-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Republican Road	RRRZ	North Island,New Zealand	38.3390S	176.5146E	493	From 2007-12-10
Resadiye-TOKAT	RSDY	Turkey	40.3972N	37.3273E	550	From 2007-06-13
Research School of Earth Sciences	AUSIS	Australian Capital Territory,Australia	35.2800S	149.1100E	585	From 2011-05-04
Reservoir Flats	RFM	Montana,U.S.A.	46.1047N	112.4870W	2353	From 1984-01-01 to 1987-11-13
Resinera	RESI	Spain	36.8732N	3.0700W	1322	
Resolute Bay	RES	Northwest Territories,Canada	74.6867N	94.9000W	15	
Restoule Provincial Park	RSPO	Ontario,Canada	46.0734N	79.7602W	264	
Resuttano	RESU	Italy	37.6468N	14.0568E	785	From 2008-02-25
Retamim	RTMI	Israel	31.0545N	34.6912E	261	From 2006-09-04
Retamin	RTMM	Israel	31.0510N	34.6863E	255	
Rethem/Aller, Germany	RETH	Niedersachsen,Germany	52.7380N	9.3610E	-145	From 2012-06-01
Rethymnon	RTH1	Crete,Greece	35.3653N	24.4717E	35	From 2010-10-01
Retiro	CHUE	Maule,Chile	36.0897S	71.7983W	161	
Reunion Island	REU	Reunion,France	21.1950S	55.5772E	1550	From 1968-05-03
Reutte	RETA	Austria	47.4871N	10.7623E	965	From 2006-12-13
Reveille Range	RVE	Nevada,U.S.A.	38.0197N	116.1920W	2290	From 1979-06-08 to 1981-12-31
Revenden	U42A	Arkansas,U.S.A.	36.3514N	91.2383W	119	From 2011-06-21 to 2013-03-13
Reventador Sur	REVS	Ecuador	0.1053S	77.6201W	2000	From 2013-03-13
Reventador volcano	EPALM	Ecuador	0.2133S	77.7292W	1761	From 2002-11-21
Revere	REVF	Provence-Cote d'Azur,France	43.7400N	7.3675E	700	
Reverse DX Ranch, Oshkosh	M27A	Nebraska,U.S.A.	41.5281N	102.3872W	1147	From 2008-12-05 to 2010-10-10
Revivim	REVI	Israel	31.0405N	34.7200E	273	From 2010-06-16
Revivim	RVVM	Israel	31.0410N	34.7210E	200	
Rev-Rev Volc	REVE	Ecuador	0.0420S	77.5235W	1440	From 2002-04-04 to 2003-04-01
REWA	REW	Madhya Pradesh,India	24.5658N	81.3354E	280	From 2000-06-04
Rexburg	REX	Idaho,U.S.A.	43.8125N	111.7830W	1532	From 1972-04-20
Rexford	RXF	Montana,U.S.A.	48.8648N	115.1240W	1231	From 1976-10-01 to 2004-03-11
Reyes Peak	RYS	California,U.S.A.	34.6433N	119.3510W	1841	From 1976-06-01
Reyhanli	REYT	Turkey	36.2500N	36.6000E	230	From 1998-03-01
Reykjanes	IRNE	Iceland	63.8168N	22.7056W	19	From 2008-06-19
Reykjavik	REY	Iceland	64.1278N	21.9050W	44	
Reynihlio	IREN	Iceland	65.6470N	16.9060W	338	From 1996-11-03
Rhampton Hrock	RK1	Queensland,Australia	23.3886S	150.4938E	87	
Rhampton Srock	RK2	Queensland,Australia	23.3825S	150.5248E	40	
Rheinberg	BRHE	Nordrhein-Westfalen,Germany	51.5155N	6.5710E	24	From 2004-12-01
Rheinpreussen Mine	RPM	Nordrhein-Westfalen,Germany	51.4723N	6.6343E	-412	
Rhenigidale	RRH	Scotland,United Kingdom	57.9197N	6.6882W	103	From 1995-09-10
Rhiw	YRH	Wales,United Kingdom	52.8335N	4.6290W	300	From 1984-01-01
Rhoboro Hills	RHP	South Island,New Zealand	44.0991S	170.0839E	899	From 1978-04-24 to 1983-11-21
Rhodes	RHO	Greece	36.4372N	28.2236E	45	From 1965-11-18 to 1966-04-04
Rhodes College	RDST	Tennessee,U.S.A.	35.1578N	89.9886W	79	
Rhodes Hospital	RPN1	Greece	36.4486N	28.2180E	14	From 2012-08-01
Rhodes Town Hall	RDI1	Greece	36.4514N	28.2240E	6	From 2012-08-01
Rhoscolyn	YRC	Wales,United Kingdom	53.2506N	4.5741W	24	From 1984-01-01
RHT01	RHT01	Saudi Arabia	24.2734N	39.8051E	987	
RHT02	RHT02	Saudi Arabia	24.4842N	40.0862E	785	
RHT03	RHT03	Saudi Arabia	24.2471N	40.1718E	815	
RHT04	RHT04	Saudi Arabia	23.9930N	39.8780E	1130	
RHT05	RHT05	Saudi Arabia	23.9090N	39.1610E	544	
RHT06	RHT06	Saudi Arabia	24.3765N	39.1923E	787	
RHT07	RHT07	Saudi Arabia	24.6658N	39.0403E	799	
RHT08	RHT08	Saudi Arabia	24.7095N	39.5433E	781	
RHT09	RHT09	Saudi Arabia	24.7845N	39.9147E	1049	
RHT10	RHT10	Saudi Arabia	24.5800N	39.9030E	868	
RHT11	RHT11	Saudi Arabia	24.9160N	39.6910E	1071	
RHT13	RHT13	Saudi Arabia	24.2080N	39.3650E	939	
RHT14	RHT14	Saudi Arabia	24.3860N	39.7570E	820	
RHT15	RHT15	Saudi Arabia	24.1730N	39.8390E	1037	
Riachuelo	RCBR	Rio Grande do Norte,Brazil	5.8275S	35.9014W	420	
Riallon	OG20	Provence-Cote d'Azur,France	44.6133N	6.3312E	1570	From 1989-01-17
Ribeira Ch	PRCH	Azores,Portugal	37.7280N	25.4800W	225	From 2003-01-01
Ribeira da Areia	RIA	Azores,Portugal	38.6597N	28.0394W	420	From 1981-07-01
Ribeira da Areia	RIA0	Azores,Portugal	38.6597N	28.0394W	420	From 1981-07-01
Ribeirinha	PID	Azores,Portugal	38.4422N	28.1192W	450	
Ribeirinha	RIB2	Azores,Portugal	38.6715N	27.1731W	387	From 1983-10-01
Ribeirinha	RIB	Azores,Portugal	37.7995N	25.4611W	526	
Riberalta	RTA	Bolivia	11.0067S	66.0783W	175	
Rib Lake	G40A	Wisconsin,U.S.A.	45.2684N	90.2006W	472	From 2011-08-19 to 2013-11-27
Rib Lake	RL-	Wisconsin,U.S.A.	45.3081N	90.0986W	472	From 1963-04-10 to 1963-05-13
Rib Lake	RL-WS	Wisconsin,U.S.A.	45.3081N	90.0986W	472	From 1963-04-10 to 1963-05-13
Rice	B09A	Washington,U.S.A.	48.4226N	118.1488W	630	From 2006-09-01 to 2008-06-13
Rice Lake	RLW	Wisconsin,U.S.A.	45.6597N	91.5594W		
Riceville	RCT	Tennessee,U.S.A.	35.3453N	84.6614W	265	
Richard P. Wilkes	ARWM	California,U.S.A.	38.9563N	121.1620W	320	From 1976-01-29
Richfield	PEUT	Utah,U.S.A.	38.7759N	112.0886W	1644	From 2008-05-28
Richland	RCW	Washington,U.S.A.	46.3472N	119.2740W	390	
Richland Balsam	RBNC	North Carolina,U.S.A.	35.3570N	82.9860W	1829	From 1982-05-26
Richland Creek Farm, El Dorado	Z41A	Arkansas,U.S.A.	33.2577N	92.8030W	62	From 2011-03-10
Richland Springs	333A	Texas,U.S.A.	31.3249N	98.9841W	443	From 2009-11-13 to 2011-10-02
Richmond	S50A	Kentucky,U.S.A.	37.6790N	84.4003W	300	From 2012-06-05
Richmond	LRN	England,United Kingdom	54.4167N	1.7858W	300	From 1991-01-01
Richmond	RIC	Florida,U.S.A.	25.6167N	80.4167W		
Richmond Field	RFSB	California,U.S.A.	37.9161N	122.3361W	-118	
Richmond Hill, Kingstown, St. Vincent	SVOC	St Vincent	13.1534N	61.2212W	30	From 2014-10-18
Richmond-San Rafael Bridge	RSRB	California,U.S.A.	37.9357N	122.4465W	-157	
Rich Mountain	RICH	North Carolina,U.S.A.	35.9195N	82.8187W	968	From 1983-06-19 to 2008-02-13
Richton	RI-MS	Mississippi,U.S.A.	31.1978N	88.8508W	37	
Richville	H57A	New York,U.S.A.	44.4624N	75.3905W	132	From 2013-08-25
Ricice	RICI	Croatia	43.4944N	17.1330E	431	From 2009-04-21
Rickey Ranch	ARRM	California,U.S.A.	38.7653N	121.1720W	127	From 1976-12-02
Ridgeland	G38A	Wisconsin,U.S.A.	45.1693N	91.8549W	370	From 2011-08-14 to 2013-06-06
Ridgley Place, Grand Junction	Q20A	Colorado,U.S.A.	38.9541N	108.2956W	1716	From 2007-11-30 to 2010-02-07
Ridgway	RW3	Colorado,U.S.A.	38.2502N	107.6870W	2603	From 1983-01-01
Ridgway	M55A	Pennsylvania,U.S.A.	41.4686N	78.7649W	531	From 2013-01-26
Ridgway	RW4	Colorado,U.S.A.	38.1568N	107.6160W	2739	From 1983-01-01
Ridgway	RW6	Colorado,U.S.A.	38.2023N	107.9340W	3063	From 1983-01-01
Ridgway	RW5	Colorado,U.S.A.	38.0800N	107.8320W	2991	From 1983-01-01
Ridgway	RW1	Colorado,U.S.A.	38.2587N	107.7890W	2443	From 1983-01-01
Ridgway	RW2	Colorado,U.S.A.	38.3080N	107.7270W	2405	From 1983-01-01
Ridotti (Balsorano, AQ)	T0205	Italy	41.7954N	13.6045E	690	From 2009-10-08 to 2010-01-14
Riehen 2 (BS)	RIEH2	Switzerland	47.5936N	7.6581E	-642	From 2006-10-01 to 2007-07-12
Riehen-Baumlih	SRHB	Switzerland	47.5713N	7.6244E	260	From 1996-12-13
Riehen, Erlenstr^sschen, BS	SRHE	Switzerland	47.5856N	7.6494E	281	From 2013-11-01
Riehen, Zur Hoffnung, BS	SRHH	Switzerland	47.5798N	7.6538E	323	From 2013-11-01
Riekki	KU6	Finland	66.0255N	29.8907E	275	From 2006-10-06
Riesel	336A	Texas,U.S.A.	31.3870N	96.8443W	140	From 2010-02-17 to 2011-12-18
Rifaina	RIFB	Sao Paulo,Brazil	20.0737S	47.5019W	860	From 1993-01-01
Rifugio Sapienza	ERSA	Sicily,Italy	37.6987N	14.9943E	1880	From 1994-10-01
Right Bank House--Pihur	RBH	Pakistan	34.0705N	72.6705E	364	
Rignano Grg	RGNG	Italy	41.6742N	15.5864E	587	
Rihia Road	RITZ	North Island,New Zealand	38.9771S	175.8585E	525	From 2003-04-04
Riito	RII	Baja California,Mexico	32.1640N	114.9603W	15	From 1977-02-01
Rijeka	RIY	Croatia	45.3250N	14.4830E	190	From 1989-05-04
Rikitea	RKT	Gambier Islands,France	23.1197S	134.9733W	50	
Rilland Hill	SRH	St Vincent,Saint Vincent and the Grenadines	13.1860N	61.2540W	274	
Rim	RIM	Hawaii,U.S.A.	19.3953N	155.2740W	1128	From 1973-05-01
Rimouski	RIMQ	Quebec,Canada	48.4400N	68.4800W	129	From 1984-08-22
Rimrock	RMR	California,U.S.A.	34.2128N	116.5750W	1702	
Rimuhau	RIGZ	North Island,New Zealand	38.7058S	177.7622E	563	From 2009-01-01
Rincon	RIOS	Costa Rica	8.7005N	83.5144W	102	
Rinconada Maipu	RCDM	Santiago,Chile	33.4892S	70.8064W	487	
Riobamba	ARIO	Ecuador	1.6549S	78.6976W	2890	From 2011-06-14
Riobamba	RIOE1	Ecuador	1.7482S	78.6274W	2733	From 2006-01-20
Riobamba	RIOE	Ecuador	1.7525S	78.6308W	2733	From 2007-01-01
Rioblanco	SOTA	Colombia	2.1350N	76.6080W	3795	
Rio Blanco	RBC	Colorado,U.S.A.	39.8425N	108.3920W	1996	From 1973-01-01 to 1973-12-31
Rio Branco	RIOB	Acre,Brazil	10.1501S	67.7470W	220	
Rio Carpintero	RCC	Cuba	19.9942N	75.6958W	100	From 1965-07-25
Rio Claro- Sao Paulo-Brazil	RCLB	Sao Paulo,Brazil	22.4191S	47.5310W	658	From 2002-08-31

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Rio de Janeiro	RDJ	Rio de Janeiro,Brazil	22.8950S	43.2233W	29	
Rio Formoso - PE	NBRF	Pernambuco,Brazil	8.6795S	35.1272W	56	From 2011-08-02
Rio Frio	RIFO	Costa Rica	10.3172N	83.9228W	139	
Rio Frio	RFVM	Mexico D.F.,Mexico	19.3332N	98.7617W	3105	
Rio Grande	RIOV	Venezuela	8.0690N	61.8140W	279	From 2002-11-06
Rio Grant	RIO	New Mexico,U.S.A.	35.7547N	106.1760W	2073	From 1975-02-21 to 1976-09-17
Rio Hardy	RHM	Sonora,Mexico	32.1422N	115.2860W	10	From 1969-02-16
Riolos of Patras	RLS	Greece	38.0578N	21.4667E	100	From 1976-07-15
Rio Macho	RMCR	Costa Rica	9.7845N	83.8572W	1420	
Rionero Sannitico	RNI2	Italy	41.7025N	14.1525E	970	
Rio Patras	PAT5	Greece	38.2960N	21.7350E	40	From 2011-09-01
Rio Piedras	ERIP	Spain	37.3729N	7.2551W	82	From 1995-11-22
Rio Saliceto (MN)	T0826	Italy	44.8394N	10.8113E	12	From 2012-05-29 to 2012-08-09
Rio Tinto	TINT	Spain	37.7667N	6.6333W		
Riou	RIU	Alaska,U.S.A.	59.8783N	141.2280W	15	
Rio Verde	RVRD	Ecuador	1.0676N	79.3851W	47	From 2008-11-28
Rio Verde do Mato Grosso - MS	RVMB	Mato Grosso,Brazil	19.1912S	54.8532W	506	From 2011-09-24
Rio Vista Mine	RVM	California,U.S.A.	34.1803N	114.2000W	243	From 1977-05-01
Risco	RSCM	Missouri,U.S.A.	36.5679N	89.7731W	82	
Rishiri	JRR	Soya,Japan	45.1378N	141.3112E	27	
Rising Star	233A	Texas,U.S.A.	32.0179N	98.8998W	539	From 2009-11-18 to 2011-10-01
Rita Coyotepec	IIC	Mexico D.F.,Mexico	19.7670N	99.2580W	2725	
Rita Site, White Sands Missle Range	Z23A	New Mexico,U.S.A.	33.2621N	106.2319W	1278	From 2008-05-14 to 2010-01-19
Riverhead Borehole	RVAZ	North Island,New Zealand	36.7700S	174.5792E	-191	From 2008-04-01
Riveris	RIVT	Rheinland-Pfalz,Germany	49.7082N	6.7653E	269	
River Road, Clintonville	WI04	Wisconsin,U.S.A.	44.6331N	88.7867W	247	
Riverside	RVR	California,U.S.A.	33.9933N	117.3750W	260	From 1926-10-19
Riverside	RVUT	Utah,U.S.A.	41.8383N	112.2590W	1951	From 1979-09-01 to 1980-10-31
Riverside Borehole	RSBC	California,U.S.A.	33.9731N	117.3272W	297	
Riverside Mountains	RVS	California,U.S.A.	34.0347N	114.5180W	677	From 1974-04-01
Riverview	RIV	New South Wales,Australia	33.8294S	151.1580E	25	From 1909-01-01
Riviere de l'Est	RER	Reunion,France	21.1590S	55.7460E	834	From 1986-02-10
Riviere-du-Loop	RDLQ	Quebec,Canada	47.8400N	69.5400W	55	From 1980-08-19
Riviere Ouelle	A16	Quebec,Canada	47.4706N	70.0064W	15	From 1977-08-30
Riviere-Ouelle	ROUQ	Quebec,Canada	47.4800N	70.0000W	26	From 1984-08-28
Rivodutri	URVD	Italy	42.4953N	12.8470E	379	From 2010-09-10
Riyadh	RYDS	Saudi Arabia	24.1900N	46.6400E	594	From 2001-06-25
Riyadh	RYD	Saudi Arabia	24.7200N	46.6100E	649	From 1986-01-01
Rjupnafell	IRJU	Iceland	63.6174N	18.6721W	173	From 2010-12-16
RKJ Ranch, Bemidji	C34A	Minnesota,U.S.A.	47.6501N	94.9106W	441	From 2010-10-20 to 2012-07-29
Roach Canyon	PRCM	California,U.S.A.	36.2562N	120.6200W	623	
Roan Cliffs	ROA	Utah,U.S.A.	39.6615N	110.3647W	2962	
Robe	ROBE	South Australia,Australia	37.1471S	139.8742E	10	From 2012-12-11
Robert and Kassanda Mosher, Grygla	B33A	Minnesota,U.S.A.	48.2722N	95.5880W	362	From 2010-10-22 to 2012-06-09
Robert W. Jensen	ARJM	California,U.S.A.	38.6865N	120.9560W	460	From 1976-12-02
Robesonia	O59A	Pennsylvania,U.S.A.	40.3114N	76.1859W	334	From 2013-04-28
Robets Cordova Ranch, Walsenberg	S25A	Colorado,U.S.A.	37.6606N	104.4349W	1821	From 2008-06-12 to 2010-04-18
Robic@19	ROBS	Slovenia	46.2445N	13.5094E	265	
ROBINSON CRUSOE ISLAND INFRASONIC ARRAY REFERENCE POINT		Juan Fernandez Islands,Chile	33.6538S	78.7960W	388	From 2004-04-24
Robinson Place, Fruitland	O17A	Utah,U.S.A.	40.1948N	110.7378W	2079	From 2007-08-15 to 2009-04-10
Robledal	RBDL	El Salvador	14.1130N	89.6865W	1431	
Robourent	ROB	Italy	44.2958N	7.8863E	810	From 1967-01-01
Rob Roy	ROYM	Victoria,Australia	37.6399S	145.2885E	180	
Roby	131A	Texas,U.S.A.	32.6737N	100.3888W	622	From 2009-03-14 to 2011-02-09
Rocca di Cave	RCAV	Italia	41.8473N	12.9453E	940	From 2014-12-11
Rocca di Mezzo	RM04	Italy	42.1885N	13.4515E	1109	From 2009-04-06 to 2009-04-22
Rocca di Papa	RDP	Italy	41.7583N	12.7167E	760	From 1983-01-01
Roccamonfina	RFI	Italy	41.3006N	13.9847E	780	From 1988-05-01
Rocca Remolon	RRL	Italy	44.9208N	6.7908E	2130	From 1985-01-01
Roccaromana	RMI2	Italy	41.2528N	14.2636E	702	
Rocca Rossa	RORO	Italy	44.1122N	8.0662E	260	From 1998-07-01
Rocca San Felice	RSF3	Italy	40.9643N	15.1760E	865	
Roccetta Nervino	RONM	Italy	43.8763N	7.5982E	300	From 2001-01-01
Rocchetta Sant'Antonio	RSA3	Italy	41.0877N	15.4425E	531	
Rocchetta Tanaro	ROTM	Italy	44.8493N	8.3527E	221	From 2001-01-01
Rocchetta Volt	RVI2	Italy	41.6219N	14.0214E	990	
Rochefort	RCHB	Belgium	50.1560N	5.2280E	161	From 2000-01-01
Rochester	ROC	New York,U.S.A.	43.1245N	77.5923W	155	From 1959-02-13
Rochester High School	RRHS	Washington,U.S.A.	46.7996N	123.0404W	47	
Rochester Mine, Lovelock	O08A	Nevada,U.S.A.	40.2903N	118.1550W	2137	From 2006-02-23 to 2008-03-06
Rochester (NY)	RMO	New York,U.S.A.	43.1317N	77.5386W	141	From 1968-03-22 to 1971-09-30
Rochford	I25A	South Dakota,U.S.A.	44.0196N	103.7324W	1856	From 2009-06-08 to 2011-05-28
Rock Avalanche	RKAV	Alaska,U.S.A.	60.2998N	141.3458W	1647	
Rock City	RCG	Georgia,U.S.A.	34.9750N	85.3480W	468	From 1981-10-23 to 2008-02-13
Rock Creek Canyon	RCCR	California,U.S.A.	37.4869N	118.7228W	2817	
Rock Creek Ranch, Frenchglen	K07A	Oregon,U.S.A.	42.6912N	119.2469W	1407	From 2006-05-30 to 2008-04-07
Rock Creek Ranch, Golconda	N09A	Nevada,U.S.A.	40.8520N	117.5244W	1617	From 2006-04-20 to 2008-03-07
Rock Eagle	REG	Georgia,U.S.A.	33.4421N	83.3371W	178	From 1978-02-01
Rockefeller Mts	RMA	King Edward VII Land	78.1333S	155.4170W	390	From 1940-11-17 to 1940-12-28
Rockhampton 2 Soft	RK2S	Queensland,Australia	23.3102S	150.5216E	36	From 2009-01-01
Rockhampton Hard Rock	RK1H	Queensland,Australia	23.3876S	150.4939E	68	From 2009-01-01
Rocking H Ranch, Lancaster	A32A	Minnesota,U.S.A.	48.9172N	96.4935W	322	From 2010-10-23 to 2012-06-10
Rockin P Farm, Martin	U45A	Tennessee,U.S.A.	36.3481N	88.7635W	144	From 2011-08-08 to 2013-03-14
Rockland Lake	RLSP	New York,U.S.A.	41.1453N	73.9107W	61	
Rocklands	ROKL	Victoria,Australia	37.2333S	141.9568E	215	From 2008-12-03
Rocklands Reservoir	ROKM	Victoria,Australia	37.2420S	141.9550E	200	
Rockmart	Y51A	Georgia,U.S.A.	33.8993N	85.0640W	380	From 2012-04-07
Rockport	RPW	Washington,U.S.A.	48.4483N	121.5140W	850	
Rock site, Kinburn Side Road	KB1O	Ontario,Canada	45.3981N	76.1768W	108	From 2013-10-01
Rocksprings	531A	Texas,U.S.A.	30.1645N	100.5464W	661	From 2009-02-15 to 2011-01-19
Rocksprings	532A	Texas,U.S.A.	30.1278N	99.9049W	703	From 2009-02-18 to 2011-01-18
Rock Springs	M19A	Wyoming,U.S.A.	41.5047N	109.1569W	2080	From 2007-10-24 to 2009-10-14
Rocky Butte	RBO	Oregon,U.S.A.	45.5408N	122.5643W	158	
Rocky Gully	RKGY	Western Australia,Australia	34.6094S	116.9773E	220	From 1999-09-04
Rocky Gully	RKG	Western Australia,Australia	34.5698S	117.0100E	300	From 1983-07-01 to 2006-05-29
Rocky Hill	MRHM	California,U.S.A.	36.2863N	119.0871W	432	
Rocky Mountain Net	TVGG	Georgia,U.S.A.	34.3772N	85.3023W	323	
Rocky Mt	T56A	Virginia,U.S.A.	37.0288N	80.0311W	387	From 2013-03-16
Rodeo	AROD	San Juan,Argentina	30.1670S	69.4733W	2745	
Rodeo	RTRS	San Juan,Argentina	30.1700S	69.4603W		
Rodeo Gulch Road	JRGM	California,U.S.A.	37.0370N	121.9650W	213	From 1976-01-28
Rodgers	KRPM	California,U.S.A.	41.1582N	124.0230W	829	
Rodhopi	RDO	Greece	41.1462N	25.5375E	100	From 1988-01-01
Rodini	RODI	Greece	38.3229N	21.8961E	80	From 2010-07-03
Rodini, Patras, West Greece	ROD3	Greece	38.3081N	21.8920E	447	From 2011-05-11
Rodman Mountain	ROD	California,U.S.A.	34.6297N	116.6050W	1292	
Rodopos	RODP	Crete,Greece	35.5604N	23.7577E	309	From 2013-04-20
Rodrigues Island Caves	ROCAM	Mauritius,Mauritius	19.7555S	63.3698E	37	From 2012-12-15
Roellen	RELT	Missouri,U.S.A.	36.0332N	89.3022W	107	
Roetgen-Dahlheim	RODG	Nordrhein-Westfalen,Germany	51.1447N	6.1803E	70	From 2002-07-01
Roetschberg	BD07	Nordrhein-Westfalen,Germany	50.9433N	6.6740E	74	From 2001-01-01
Roger Stewart	RGRS	South Carolina,U.S.A.	32.9075N	80.1942W	-52	From 1986-06-01
Roghun	RAG	Tajikistan	38.7000N	69.7800E		
Rognes	ROG	Provence-Cote d'Azur,France	43.6840N	5.3127E	310	
Rognes	RGS	Norway	63.0210N	10.4350E	120	From 1985-12-22 to 2003-04-05
Rohrbach	ROHR	Sachsen,Germany	50.2342N	12.3168E	629	From 2001-08-07
Rohtak	RTK	Haryana,India	29.0333N	76.4143E	0	
Rohtak	ROH	Haryana,India	28.9000N	76.6000E	220	
ROIAK	ROIA	Bulgaria	43.0933N	27.3778E	355	From 2006-10-01
Roio Piano	T0106	Italy	42.3069N	13.3837E	1260	From 2009-04-08
ROKH	ROKH	Iran	32.3458N	51.0352E	2022	From 2011-01-01
Rokko	RKO	Hyogo,Japan	34.7639N	135.3018E	540	
Rokugo	JRG	Iwate,Japan	39.3963N	140.6338E	200	
Rolduc	RDC	Netherlands	50.8694N	6.0847E	145	
Rolla	ROL	Missouri,U.S.A.	37.9178N	91.8689W	200	From 1965-01-01
Rolling Bench Mark	BRMM	California,U.S.A.	36.8345N	120.8240W	372	From 1973-12-03
Roma	ROM9	Italy	41.8284N	12.5155E	110	From 2002-10-01
Roma	RMQ	Queensland,Australia	26.4857S	148.7582E	375	From 1984-08-11
Roma	RTQ	Queensland,Australia	26.5678S	148.8514E	350	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Roman Lake	ROMN	Northwest Territories,Canada	64.3157N	118.0182W	395	From 2007-08-12 to 2010-07-16
Roman Nose	RNO	Oregon,U.S.A.	43.9122N	123.7410W	875	From 1991-09-01
Rombauer	RMB	Missouri,U.S.A.	36.8860N	90.2780W	147	From 1974-06-27
Rome	K09A	Oregon,U.S.A.	42.6996N	117.7251W	1176	From 2006-08-05 to 2008-04-03
Rome	ROM	Italy	41.9033N	12.5133E	45	
Rome, Mte Porzio	RMP	Italy	41.8111N	12.7022E	380	
Rome (USA)	RMG	Georgia,U.S.A.	34.3679N	85.2816W	244	From 1979-05-01
Romny	RMNS	Amurskaya Oblast',Russia	50.8630N	129.3900E	190	
Romrod	GWBF	Hessen,Germany	50.7285N	9.1763E	368	From 2002-06-17
Ronchi	N004	Italy	43.4684N	12.3373E	465	From 2011-02-08
Roncone	RONC	Italy	45.9802N	10.6228E	1913	From 2013-10-09
Roncone	RNI	Italy	45.9802N	10.6228E	1913	From 1982-01-01 to 2013-10-09
Rongbusi, Xizang Zizhiqu	RBSH	Xizang Zizhiqu,China	28.1955N	86.8280E	5100	From 2001-09-20 to 2002-05-21
Ronqui˜¤re	BRQR	Belgium	50.6062N	4.2246E	40	From 1989-09-05
Roodepoort, Johannesburg	DRD	South Africa	26.1720S	27.8621E	1729	From 2010-03-19
Roopena	RPA	South Australia,Australia	32.7250S	137.4030E		
Roosevelt	Y17A	Arizona,U.S.A.	33.6953N	110.8444W	866	From 2007-04-17 to 2009-01-22
Roosevelt	RPK	Washington,U.S.A.	45.7617N	120.2310W	549	From 1975-11-01
Roosevelt	O18A	Utah,U.S.A.	40.2655N	110.0082W	1582	From 2007-07-25 to 2009-04-10
Roosevelt Hot Springs	RHU	Utah,U.S.A.	38.4722N	112.8470W	1905	From 1978-02-01
Roosevelt Roads	RRP	Puerto Rico	18.2333N	65.6333W		
Roosevelt Roads	RRD	Puerto Rico	18.2360N	65.6180W	40	From 1975-03-01 to 1999-08-25
Roper	V61A	North Carolina,U.S.A.	35.7912N	76.5776W	4	From 2013-03-11
Roppe	ROF	Franche Comte,France	47.6806N	6.9008E	500	
Roquetas del Mar	EROQ	Spain	40.8232N	0.4088E	284	From 1987-02-01
Rosais	ROSA	Azores,Portugal	38.7195N	28.2415W	310	From 1989-07-01
Rosal de la Frontera, Huelva	E016	Spain	37.9670N	7.0568W	320	From 2007-09-26 to 2009-06-23
Ros^¡rio	ROSB	Maranhao,Brazil	2.8967S	44.1246W	60	From 2014-02-02
Roseau, Dominica	DRTD	Dominica	15.2955N	61.3843W	31	From 2014-10-22
Rosebud	GOIL	Illinois,U.S.A.	37.2900N	88.5800W	165	
Rosebud	F22A	Montana,U.S.A.	45.7794N	106.2569W	882	From 2008-11-13 to 2010-08-08
Rosebud	R41A	Missouri,U.S.A.	38.2976N	91.3795W	257	From 2011-07-26
Rosebud Secondary College	AURSC	Victoria,Australia	38.3700S	144.8900E	23	From 2013-05-10
Rosebush, Pembrokeshire	RSBS	Wales,United Kingdom	51.9530N	4.7448W	278	From 2012-08-01
Rosedale	P46A	Indiana,U.S.A.	39.6178N	87.2067W	194	From 2011-10-22
Rosedale State School	RDSS	Queensland,Australia	24.6238S	151.9168E	117	From 2004-08-09
Rose Hills Cemetery, Whittier	RHC	California,U.S.A.	34.0009N	118.0131W	364	
Roselend	RSL	Rhone-Alpes,France	45.6883N	6.6256E	1583	
Rose Lookout	RLO	Oklahoma,U.S.A.	36.1652N	95.0229W	341	From 1977-05-01
Rosemanowes	CRQ	England,United Kingdom	50.1672N	5.1726W	165	From 1981-02-01
Rosemanowes 2	CRQ2	England,United Kingdom	50.1669N	5.1686W	152	From 1981-01-01
Rosenbuehl-Arzberg	MROB	Bayern,Germany	50.0832N	12.1786E	570	From 2001-10-09
Roseneath	ROS	North Island,New Zealand	41.2833S	174.8000E		
Rosenhof	ROSN	Cape Province,South Africa	34.1038S	24.5400E	110	
Rose Park Fire Station, Salt Lake City, UT	RPF	Utah,U.S.A.	40.7753N	111.9203W	1287	From 2007-10-03
Rose Pump	RSE	California,U.S.A.	32.9255N	115.4992W	-41	
Rose Valley	RVW	Washington,U.S.A.	46.1495N	122.7440W	460	From 1981-02-01
Rose Valley Central	RVCM	California,U.S.A.	36.0080N	117.8900W	1067	From 1975-09-26
Rose V. Central	WRVM	California,U.S.A.	36.0080N	117.8900W	1067	From 1975-09-26
Rosharon	638A	Texas,U.S.A.	29.4193N	95.4481W	8	From 2011-02-17 to 2011-11-06
ROSL	ROSL	Bolivia	19.4853S	64.1803W	2073	From 1994-05-30 to 1995-08-08
Ross	ROSS	Washington,U.S.A.	45.6619N	122.6569W	61	
Rossano	ROI	Italy	39.5718N	16.5692E	605	From 1979-06-01
Ross Creek	RCJ	Utah,U.S.A.	40.6585N	111.4393W	2090	From 1992-10-30
Rosskopf	ROSI	Italy	46.9281N	11.4118E	1917	From 2006-12-13
Rosslynne Res.	LYNN	Victoria,Australia	37.4755S	144.5741E	447	
Rostrenen	ROSF	Bretagne,France	48.3364N	3.2736W	260	From 1996-04-03
Roswell	Z25A	New Mexico,U.S.A.	33.2797N	104.7171W	1233	From 2008-04-16 to 2010-03-08
Rota	RTN	Nicaragua	12.5333N	86.7832W	240	From 1975-01-01
Roteberg	ROTU	Sweden	61.4200N	15.8140E	100	From 2000-06-29
Rothenfluh	ROTHE	Switzerland	47.4761N	7.9209E	711	From 2012-12-10
Roth Farm, Molt	F19A	Montana,U.S.A.	45.8538N	108.9437W	1243	From 2008-08-07 to 2010-06-07
Rotoiti	RTY	South Island,New Zealand	41.8058S	172.8432E	635	From 1984-07-25 to 2000-09-30
Rotonda - Contrada Piano Incoronata (PZ)	T0716	Italy	39.9487N	16.0224E	560	From 2012-03-22 to 2099-12-31
Rotonda (PZ)	T0711	Italy	39.9357N	16.0618E	751	From 2011-11-25
Rotorua	ROT	North Island,New Zealand	38.1332S	176.2552E	300	From 1936-11-01 to 1942-12-31
Rotten Point	ROKY	Kentucky,U.S.A.	37.9090N	83.9260W	433	
Rotterdam (NY)	ROTD	New York,U.S.A.	42.7508N	74.0872W	283	
Rotzenmuhle	ROTZ	Bayern,Germany	49.7669N	12.2070E	430	
Rough Rock, Chinle	U18A	Arizona,U.S.A.	36.4199N	109.8696W	1878	From 2007-05-19 to 2009-02-11
Rougiers	ROU	Provence-Cote d'Azur,France	43.4014N	5.8457E	500	
Round Butte Dam	VRBM	Oregon,U.S.A.	44.6008N	121.2700W	743	
Round Hill, Nevis	NVRH	Nevis,Saint Kitts and Nevis	17.1835N	62.6001W	305	From 2002-05-06
Round Hill Res.	CRHM	California,U.S.A.	37.8588N	121.9926W	259	
Round Mountain	GROM	California,U.S.A.	39.9168N	122.6712W	1261	
Round Mountain	RDM	California,U.S.A.	34.4000N	117.1850W	1426	From 1976-12-01
Round Mountain	GRMM	California,U.S.A.	39.0205N	122.5843W	469	
Round Mountain	RMT	California,U.S.A.	39.9172N	122.6690W		
Round Mountain	RMI	Idaho,U.S.A.	42.0788N	113.3462W	1516	
Round Top Mountain	GRTM	California,U.S.A.	38.9387N	122.6700W	619	
Roure	OG33	Rhone-Alpes,France	44.0918N	7.0872E	1195	From 2000-08-09
Route 59 and County Road 4763, Timpson	ETX06	Texas,U.S.A.	31.8675N	94.4525W	117	
Route FM415 near Route 87	ETX04	Texas,U.S.A.	31.8668N	94.3810W	113	
Rovaniemi	RNF	Finland	66.6090N	26.0135E	171	From 2007-09-01
Rovere (Rocca di Mezzo)	RM13	Italy	42.1816N	13.5810E	1282	From 2009-04-07 to 2009-09-02
Rovereto Di Novi	ROVE	Italy	44.8530N	10.9497E	21	
Rover^¤ Veronese	ROVR	Italy	45.6468N	11.0721E	1316	From 2008-10-08
Rowesville	ROW	South Carolina,U.S.A.	33.3650N	80.7944W	35	From 1977-10-23
Rowland	X58A	North Carolina,U.S.A.	34.5548N	79.3388W	45	From 2013-02-08
Rowsley	ROWM	Victoria,Australia	37.8058S	144.2915E	380	
Roxas	RCP	Panay,Philippines	11.5600N	122.7450E	140	
Roxburgh	ROX	South Island,New Zealand	45.4742S	169.3204E	106	From 1957-05-12 to 1985-04-30
Roxby Downs High School	AUROX	South Australia,Australia	30.5600S	136.9000E	106	From 2013-08-11
Royal City	RC1	Washington,U.S.A.	46.9433N	119.4330W	500	From 1988-05-27
Royalston	K62A	Massachusetts,U.S.A.	42.6651N	72.2345W	289	From 2013-09-09
Royce, Wessington Springs	I31A	South Dakota,U.S.A.	44.0297N	98.5352W	469	From 2010-07-25 to 2012-06-08
Rozhen	RZN	Bulgaria	41.6880N	24.7160E	1730	
Ruatahuna	RTZ	North Island,New Zealand	38.6154S	176.9805E	867	From 2011-05-05
Ruataniwha	RTP	South Island,New Zealand	44.2828S	170.0864E	500	From 1976-09-06 to 1976-11-24
Rubha Reidh	RRR	Scotland,United Kingdom	57.8577N	5.8067W	61	From 1995-09-10
Rubicon Trail	RUBR	California,U.S.A.	39.0517N	120.1549W	2045	
Ruby Glebe Property	RGP	California,U.S.A.	38.8783N	122.8113W	799	
Rude Farm, Bottineau	A28A	North Dakota,U.S.A.	48.9096N	100.2669W	692	From 2009-08-11 to 2011-07-16
Rudo	RUDO	Bosnia and Herzegovina	43.6180N	19.3700E	413	From 2013-06-21
Rudovci	RUDS	Serbia	44.3878N	20.4003E	0	
Ruedersdorf	RUE	Germany	52.4800N	13.7800E		
Rufina	RUFI	Italy	43.8400N	11.5100E	249	From 2012-01-13
Rugen	RGN	Mecklenberg-Vorpommern,Germany	54.5477N	13.3214E	15	
Ruggs Ranch, Heppner	G07A	Oregon,U.S.A.	45.2664N	119.6692W	801	From 2006-08-17 to 2008-05-09
Ruhr-University Bochum -- Hof Stiepel	BHOF	Nordrhein-Westfalen,Germany	51.4289N	7.2614E	132	From 2011-02-07
Ruhr-University Bochum--Klosterbusch Mine	BKLB	Nordrhein-Westfalen,Germany	51.4401N	7.2697E	85	
Ruhr-University Bochum - Language Institute	BULI	Nordrhein-Westfalen,Germany	51.4544N	7.2602E	145	From 2011-06-09
Ruhr-University Bochum--Staatshockbauamt	BSHA	Nordrhein-Westfalen,Germany	51.4469N	7.2445E	148	
Ruhr-University Bochum--Technical Center	BTEZ	Nordrhein-Westfalen,Germany	51.4490N	7.2790E	112	
Ruisui	HGSD	Taiwan region	23.4921N	121.4239E	94	From 2004-04-27
Rumangabo	RUM	Democratic Republic of the Congo	1.3400S	29.3600E	1590	From 1955-01-01 to 1969-12-31
Rumipamba	RUMP	Ecuador	0.1753S	78.5313W	3377	From 2010-08-19
Rumipamba	QUR	Ecuador	0.1717S	78.5288W	3720	From 1988-07-19
Rumjataar	RUMN	Nepal	27.3038N	86.5482E	1319	From 2001-10-10 to 2002-11-28
Rumoi	RMJ	Rumoi,Japan	43.9433N	141.6367E	22	
Rundenannen	RUND	Norway	60.4135N	5.3672E	525	From 1997-09-01
RUNDU	RUDU	Namibia	17.9090S	19.7210E	1071	From 2006-04-05
Runtun	RUN2	Ecuador	1.4218S	78.4132W	2430	From 1994-12-02
Runtun	RUN5	Ecuador,Ecuador	1.4152S	78.4242W	2630	From 2005-05-01
Runtun 3	RUN3	Ecuador	1.4467S	78.4270W	3290	
Ruppelstein	RUP	Rheinland-Pfalz,Germany	49.7017N	7.0593E	750	From 1976-01-01
Rusayo	RSY	Democratic Republic of the Congo	1.5770S	29.1798E	1694	
Ruse	RUSAM	Bulgaria	43.8462N	25.9612E	203	From 2012-11-20
Rushworth	RUSM	Victoria,Australia	36.6642S	144.9472E	127	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Russellman Park	CRPB	California,U.S.A.	37.9123N	121.9072W	307	
Russellman Park	CRPM	California,U.S.A.	37.9125N	121.9060W	331	From 1970-09-18 to 2008-10-01
Russell Place, West Yellowstone	H16A	Montana,U.S.A.	44.7038N	111.2478W	2080	From 2007-08-25 to 2009-09-07
Russell Springs	RS-	Kentucky,U.S.A.	37.1986N	84.8683W	274	From 1965-12-03 to 1965-12-13
Russell Springs	RS-KY	Kentucky,U.S.A.	37.1986N	84.8683W	274	From 1965-12-03 to 1965-12-13
Russelville	X47A	Arkansas,U.S.A.	34.5178N	87.8571W	212	From 2011-12-10
Russkaya	RUS	Kamchatskaya Oblast',Russia	52.4331N	158.5131E	75	
Rustrel	RUSF	Provence-Cote d'Azur,France	43.9410N	5.4840E	550	From 2000-08-02
Rutbah	RTB	Iraq	33.0295N	40.3077E	612	
Ruteng	RUTI	Flores,Indonesia	8.6120S	120.4650E	0	From 2005-01-01
Ruth	RUT	Nevada,U.S.A.	39.2333N	114.9830W	2270	From 1960-01-01 to 1964-04-30
Ruthven	RUN	California,U.S.A.	32.9722N	114.9770W	151	From 1973-04-16
Ruvo Del Monte	RDM3	Italy	40.8755N	15.5361E	784	
Ruweisid	RUWJ	Jordan	32.4750N	38.4019E	751	From 1989-10-02
R-V Farms, Vernon	Y32A	Texas,U.S.A.	34.0036N	99.4420W	412	From 2009-03-20 to 2011-02-12
Ryan	RYN	Nevada,U.S.A.	38.6282N	118.5230W	1585	From 1974-08-01
Rybach'ye	RYB	Kyrgyzstan	42.4500N	76.0833E		
Rybnik	RBN	Poland	50.0981N	18.5336E	250	From 1950-01-01 to 1969-12-31
Ryder	RY-	North Dakota,U.S.A.	48.0972N	101.4944W	640	From 1963-07-22 to 1966-06-03
Ryder	RY-ND	North Dakota,U.S.A.	48.0972N	101.4944W	640	From 1963-07-22 to 1966-06-03
Ryogami san	JRY	Saitama,Japan	36.0167N	138.9017E	480	
Rypely	RYL	Greenland	83.0007N	34.0724W	3	
S2 Ranch, Elgin	F09A	Oregon,U.S.A.	45.7087N	117.9094W	894	From 2006-08-09 to 2008-06-21
Saathoff Ranch, Hondo	633A	Texas,U.S.A.	29.4591N	99.1766W	320	From 2009-12-05 to 2011-10-13
Saatly	SAAT	Azerbaijan	39.8610N	48.4230E	13	From 2010-04-08
Saba	SABS	Netherlands Antilles	17.6206N	63.2430W	500	
Saba	SABA	Netherlands Antilles,Netherlands Antilles	17.6205N	63.2426W	261	From 2006-10-30
Saba	SBN	Netherlands Antilles	17.6370N	63.2350W	870	From 1976-10-01
Saba	SABT	Netherlands Antilles	17.6205N	63.2430W	880	From 2000-01-22
Saba, Juancho Airport	SABV	Netherlands Antilles	17.6400N	63.2200W	15	From 2013-12-01
Sabancuy	SCIG	Campeche,Mexico	18.9670N	91.1853W	40	From 2000-07-01
Saba, The Bottom	SABQ	Netherlands Antilles	17.6300N	63.2500W	150	From 2013-12-01
Sabatlo	SBTG	Georgia,Georgia	41.3236N	46.6639E	256	From 2003-01-01
Saba, Winward Side	SABW	Netherlands Antilles	17.6300N	63.2300W	150	From 2013-12-01
Sabc	SABC	Cuba	20.3800N	75.1900W		
Saberio	SAB	Georgia,Georgia	42.6600N	41.8500E	180	
Sable island	SABG	Nova Scotia,Canada	43.9312N	60.0084W	0	From 2005-10-13
Sabuk	KSGWL	Republic of Korea	37.2076N	128.8235E	1	From 2007-12-11
Sabzevar	SBZV	Iran	36.3883N	57.6106E	2024	From 2011-10-27
Sacbachol	SBL	Guatemala	14.8917N	91.2787W	3403	From 1980-01-01
Sachs Harbour	A36M	NorthWest Territories,Canada	71.9871N	125.2472W	32	From 2013-09-02
Sachs Harbour	SXT	Northwest Territories,Canada	71.9892N	125.2400W	77	From 1986-08-13
Sachs Harbour	SWT	Northwest Territories,Canada	71.9933N	125.2830W	80	From 1980-12-03 to 1986-07-14
Sacramento	SMKY	Kentucky,U.S.A.	37.4230N	87.2760W	158	From 1985-01-01
Sacramento, California	SACC	California,U.S.A.	38.7000N	121.5000W	40	From 2012-08-01
Sacranix	SXG	Guatemala	15.5058N	90.4197W	1904	From 1985-11-01 to 1999-08-25
Sacuragua	FISA	Venezuela	11.2648N	69.3333W	600	From 1986-12-01 to 1999-08-25
Sa da Bandeira	SDB	Angola	14.9258S	13.5719E	1781	From 1962-01-01 to 1975-12-31
Sad'ah	SADA	Yemen	16.9330N	43.7500E	1850	
Sadao Pong	PBKT	Thailand	16.5700N	100.9700E	8	From 2008-01-01
Saddle Back Butte	SBB	California,U.S.A.	34.6883N	117.8250W	832	From 1974-01-03
Saddleback Mountain	SBKC	California,U.S.A.	35.0788N	117.5810W	881	
Saddle Mountain	SDL	Washington,U.S.A.	46.7954N	119.4910W		
Saddle Peak	SADC	California,U.S.A.	34.0810N	118.6650W	732	From 1973-08-01
Sadie Cove	SDEM	Alaska,U.S.A.	59.4433N	151.2820W	770	From 1983-07-04 to 1984-06-29
Sado	JSD	Niigata,Japan	38.0370N	138.2603E	146	
Sadowa	SADO	Ontario,Canada	44.7694N	79.1417W	243	From 1993-12-03
Sadrabad	ISAD	Iran	31.9136N	53.6855E	2457	From 1998-10-01
Saentis	SAX	Switzerland	47.2507N	9.3449E	2500	From 1983-07-01 to 2001-08-28
Safranbolu	SAFT	Turkey	41.2398N	32.6872E	406	
Saga	SAG	Saga,Japan	33.2450N	130.3050E	4	
Sagamiharawakayanagi	JSGW	Kanagawa,Japan	35.6019N	139.2085E	226	From 2013-07-01
Sagara	JSG	Shizuoka,Japan	34.6743N	138.1860E	107	
Sagara	SGRN	Shizuoka,Japan	34.7122N	138.1889E	55	
Saga, Xizang Zizhiqu	SAGA	Xizang Zizhiqu,China	29.3292N	85.2322E	4524	From 2001-09-16 to 2002-10-31
Sage Hen Hill	LSHM	California,U.S.A.	40.7933N	122.0396W	730	
Saggi Highlands	SAGI	Israel	30.2040N	34.6770E	560	
Sagiada	SGD	Greece	39.6126N	20.2343E	145	From 2010-05-13
Sagoatoa	SAGO	Ecuador	1.1529S	78.6650W	4182	From 2012-09-27
S.Agostino (FE)	CAS07	Italy	44.7929N	11.3671E	10	From 2012-05-23
Saguache, Gunnison	R22A	Colorado,U.S.A.	38.2289N	106.7561W	2773	From 2007-12-19 to 2010-02-07
Sa'gya, Xizang Zizhiqu	SAJA	Xizang Zizhiqu,China	28.9093N	88.0208E	4351	From 2002-07-23 to 2002-11-07
Saham	SHMJ	Jordan	32.7270N	35.7640E	363	From 1989-08-28
Sahibganj	SHBG	Bihar,India	25.2167N	87.6667E		
Saibi	SISI	Sumatera,Indonesia	1.3265S	99.0895E	0	From 2007-12-01
Saidpur	SAD	Pakistan	33.7422N	73.0633E	838	From 1988-09-18
Saidy	SAYS	Sakha,Russia	68.7000N	134.4500E	88	From 1980-07-01 to 1995-02-01
Saigo	SAI	Shimane,Japan	36.2018N	133.3363E	27	
SAIHA	SAIH	Mizoram,India	22.4894N	92.9874E	1207	From 2012-01-06
Saijyo	JHS	Hiroshima,Japan	34.9987N	133.1163E	470	
Saikikamae	JSKE	Oita,Japan	32.7982N	131.9012E	6	From 2012-07-01
Saint Agoulin	AGO	Auvergne,France	46.0524N	3.1311E	523	From 1984-07-01
Saint Andre	A21	Quebec,Canada	47.7036N	69.6897W	46	From 1977-08-30
Saint Andrews	SAW	Washington,U.S.A.	47.7017N	119.4010W	704	From 1975-06-01
Saint Aubin	JSA	Channel Islands,United Kingdom	49.1879N	2.1709W	21	From 1981-01-01
Saint-Augustin-de-Desmaures	SADQ	Quebec,Canada	46.7485N	71.5365W	82	From 2007-11-01
Saint Breward	SBD	England,United Kingdom	50.5653N	4.6856W	220	
Saint Catharines	STCO	Ontario,Canada	43.2096N	79.1705W	96	From 1991-07-26
Saint Claude	SCG	Guadeloupe,France	16.0289N	61.6810W	646	
Saint-Cripin	OG21	Provence-Cote d'Azur,France	44.7155N	6.6185E	1395	From 1988-09-13
Saint Croix	SCV	Virgin Islands	17.7817N	64.7890W	12	From 1975-04-01 to 1999-08-25
Saint Croix	SCVI	Virgin Islands	17.7614N	64.5831W	10	From 2003-11-06
Sainte-Anne-du-Lac	D55A	Quebec,Canada	47.0190N	75.4732W	331	From 2013-08-09
Sainte Mathilde	A61	Quebec,Canada	47.6931N	70.0900W	358	From 1981-06-05
Sainte-Reine	OG07	Rhone-Alpes,France	45.5927N	6.1410E	915	From 1992-10-07
Saint-Etienne-de-Cuines	OG10	Rhone-Alpes,France	45.3522N	6.2758E	1035	From 1992-10-15
Saint-Etienne-de-Tinee	STET	Provence-Cote d'Azur,France	44.2590N	6.9290E	1200	
Sainte-Ursule	STUQ	Quebec,Canada	46.3016N	73.0946W	63	From 2011-12-18
Sainte-Ursule	STFQ	Quebec,Canada	46.5538N	71.5436W	122	From 2011-12-13
Saint Francis	P28A	Kansas,U.S.A.	39.5732N	101.7548W	1105	From 2009-05-11 to 2011-04-02
Saint Francis Retreat	HSFM	California,U.S.A.	36.8120N	121.4990W	340	From 1975-11-13
Saint Francois	SFG	Guadeloupe,France	16.2533N	61.1965W	10	From 1975-01-01
Saint George	WDO	Utah,U.S.A.	37.1076N	113.5865W	831	From 2008-05-28
Saint George	T13A	Utah,U.S.A.	37.0195N	113.9073W	878	From 2007-01-29 to 2008-10-09
Saint George	GGN	New Brunswick,Canada	45.1184N	66.8421W	6	From 1981-10-28
Saint George	SGS	South Carolina,U.S.A.	33.1925N	80.5095W	25	From 1973-03-08
Saint George Infrasonic Array Beam Ref. Pt.	SGIAR	Utah,U.S.A.	37.9159N	113.6150W		
Saint George Infrasonic Array Site 1	SGI01	Utah,U.S.A.	37.9159N	113.6150W		
Saint George Infrasonic Array Site 2	SGI02	Utah,U.S.A.	37.0097N	112.4915W		
Saint George Infrasonic Array Site 3	SGI03	Arizona,U.S.A.	36.1139N	113.6150W		
Saint George Infrasonic Array Site 4	SGI04	Nevada,U.S.A.	37.0097N	114.7385W		
Saint George's Hill	MGH	Montserrat	16.7200N	62.2160W	351	From 1980-07-09
Saint Gilles	SGMF	Bretagne,France	48.2542N	2.5569W	230	From 1996-04-03
Saint Guilaume	F59A	Quebec,Canada	45.8513N	72.7833W	43	From 2013-08-08
Saint Helena Island	SHLN	Saint Helena	15.9167S	5.7333W	274	From 1907-01-01 to 1942-12-31
Saint Helena Road	NSHM	California,U.S.A.	38.5200N	122.6070W	328	From 1970-08-14
Saint-Hilarion	SHQ	Quebec,Canada	47.6034N	70.4009W	411	
Saint Jean	DPQ	Quebec,Canada	46.6805N	72.7773W	167	
Saint Jean de L'Alberes	SJAF	Languedoc-Rousillon,France	42.4845N	2.8822E	450	From 1998-11-16
Saint Jean D'Orleans	D60A	Quebec,Canada	46.9139N	70.9237W	40	From 2013-08-01
Saint Joe	SJID	Idaho,U.S.A.	47.3640N	116.4112W	1775	
Saint John	SJV	Virgin Islands	18.3450N	64.7620W	280	From 1975-06-01
Saint John's	SJNN	Newfoundland,Canada	47.5952N	52.6781W	146	From 2005-10-12
Saint John's	STJ	Newfoundland,Canada	47.5717N	52.7328W	62	From 1964-06-01 to 1991-08-31
Saint John's	STJN	Newfoundland,Canada	47.5699N	52.7559W	167	From 1991-08-12 to 2006-03-28
Saint John's Bayou	SJMO	Missouri,U.S.A.	36.6290N	89.4760W	91	
Saint Joseph Seminary	SJH	California,U.S.A.	37.3338N	122.0910W	122	From 1966-12-23
Saint Joseph's Hill	JJOM	California,U.S.A.	37.2063N	121.9773W	343	
Saint-Julien-en-Beauchene	OG19	Provence-Cote d'Azur,France	44.6303N	5.7260E	1035	From 1989-10-13

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Saint-Julien-le-Roux	VIVF	Rhone-Alpes,France	44.8561N	4.6728E	620	From 1996-04-03
Saint Kitts	STKP	St Kitts,Saint Kitts and Nevis	17.3800N	62.8270W	366	
Saint Kitts	SKI	St Kitts,Saint Kitts and Nevis	17.3333N	62.7390W	306	From 1959-04-17
Saint Kitts 2	SKDB	St Kitts,Saint Kitts and Nevis	17.3969N	62.8083W		From 1988-01-01
Saint Louis	SLM	Missouri,U.S.A.	38.6361N	90.2361W	161	From 1909-10-01
Saint Louis du Ha Ha	SLQ	Quebec,Canada	47.6662N	69.0103W	320	From 1984-06-07
Saint Lucia	SLI	St Lucia	14.0280N	61.0080W	30	From 1955-03-08 to 1959-02-02
Saint Lucia, Anse Canot	SLAC	St Lucia	13.8972N	60.8960W	220	From 2013-05-01
Saint Lucia, Bisee	SLBI	St Lucia	14.0230N	60.9740W	22	From 2013-04-04
Saint Martial	SSM	Haiti	18.5556N	72.3375W	26	
Saint Martin du Canigou	SMCF	Languedoc-Rousillon,France	42.5280N	2.4018E	1000	
Saint Martin du Fouilloux	MFF	Poitou-Charentes,France	46.6022N	0.1458W	270	From 1971-03-24
Saint Mary's College	SMCB	California,U.S.A.	37.8388N	122.1116W	177	
Saint Maurice de Rotherens	OGSM	Rhone-Alpes,France	45.6093N	5.6972E	540	
Saint-Maurice-en-Valgodemard	OG14	Provence-Cote d'Azur,France	44.8152N	6.1123E	1090	From 1988-10-26
Saint Michael	STMI	Alaska,U.S.A.	63.5973N	162.4352W	140	From 1980-07-01 to 1983-01-01
Saint Nazaire	OCF	Rhone-Alpes,France	44.5783N	5.3021E	840	
Saint Ours	SURF	Provence-Cote d'Azur,France	44.4808N	6.8128E	1820	From 1983-10-01
Saint Patrick	MSPT	Montserrat	16.6835N	62.1992W	127	
Saint Patrick Mountain	VPMM	Oregon,U.S.A.	43.1933N	120.6660W	1387	
Saint Paul	SP-IS	Alaska,U.S.A.	57.1542N	170.2181W	10	
Saint Paul	SPP	Alaska,U.S.A.	57.1533N	170.2400W		
Saint Paul Island	SPIA	Alaska,U.S.A.	57.1776N	170.2455W	84	
Saint Paul Islands	SPI	Alaska,U.S.A.	57.1600N	170.2250W		From 1967-07-02 to 1967-09-10
Saint Petersburg	NE51	Leningradskaya Oblast',Russia	59.8810N	29.8260E	20	
Saint Petersburg	LNN	Leningradskaya Oblast',Russia	59.9333N	30.3000E	3	
Saint Peter's Dome Lookout	SPD	New Mexico,U.S.A.	35.7578N	106.3690W	2566	From 1973-09-01
Saint Peters School	SPSY	New York,U.S.A.	41.3019N	73.8906W	168	
Saint Philip	BBSP	Barbados	13.1045N	59.4579W	35	
Saint Pierre	SPR	St Pierre and Miquelon,Canada	46.7833N	56.1833W		
Saint-Raymond	D59A	Quebec,Canada	47.0073N	71.8358W	204	From 2013-07-31
Saint-Rh[-]my-en-Bosses	REMY	Italy	45.8378N	7.1565E	2448	From 2011-10-01
Saint Roch-des-Aulnaies	A11	Quebec,Canada	47.2425N	70.1978W	61	From 1977-08-30
Saint Saulge	SSF	Bourgogne,France	47.0615N	3.5060E	355	From 1967-03-29
Saint Saulge	SSF1	Bourgogne,France	47.1167N	3.5014E		
Saint Sauveur de Carouges	SSC	Basse-Normandie,France	48.5842N	0.1075W	300	
Saint Sauveur en Rue	SSB	Rhone-Alpes,France	45.2792N	4.5417E	700	
Saint Simeon	A64	Quebec,Canada	47.8264N	69.8922W	137	From 1977-08-30
Saint-Thibaud-de-Couz	OG09	Rhone-Alpes,France	45.5123N	5.8363E	630	From 1988-10-21
Saint Thomas	VST	Virgin Islands	18.3540N	64.9570W	372	From 1975-04-01 to 1999-08-25
Saint Thomas	STVI	Virgin Islands	18.3514N	64.9539W	12	
Saint Vincent	SVI	St Vincent,Saint Vincent and the Grenadines	13.1700N	61.2580W	10	
Saint Vincent	SVT	St Vincent,Saint Vincent and the Grenadines	13.1680N	61.2450W	38	From 1964-03-03 to 1999-08-25
Saint Vincent's CYO School for Boys, San Rafael	SVIN	California,U.S.A.	38.0333N	122.5264W	0	
Saipan	SAPN	Mariana Islands	15.2149N	145.7516E	209	From 1991-01-01
Sajaritas	SAJV	Venezuela	10.3648N	71.3511W	65	
Sakai	SAA	Tottori,Japan	35.5500N	133.2330E	2	
Sakaide	JJS	Kagawa,Japan	34.3737N	133.9307E	210	
SAKARYA_Geyve	GEYV	Turkey	40.4842N	30.2958E	223	From 2011-09-30
Sakarya_HENDEK	SAHE	Turkey	40.8525N	30.8536E	461	From 2011-01-11
Sakarya/Kaynarca-Ta¯oluk	KAYN	Turkey	40.9654N	30.3405E	130	From 2014-11-26
Sakata	SAK	Yamagata,Japan	38.9067N	139.8470E	4	
Sakata 2	SKH	Yamagata,Japan	38.8567N	139.9730E	58	From 1978-03-01
Saki	SHKI	Azerbaijan	41.2050N	47.1950E	600	From 1973-01-01
Sakolnakorn	SKNT	Thailand	16.9742N	103.9815E	254	
Sakura	SKU	Chiba,Japan	35.7167N	140.2330E		
Sala	SALA	Syria	32.7112N	36.7329E	1670	From 1995-02-01
Sala Consilina	SLCN	Italy	40.3900N	15.6328E	986	
Saladito	HORQ	Colombia	3.4830N	76.6240W	2295	
Salado	SDO	Atacama,Chile	26.4194S	70.3111W		
Salagasta	ASAL	Mendoza,Argentina	32.5910S	68.8348W	947	
Salakas	ISAL	Lithuania	55.5711N	26.1255E	145	
Salau	SALF	Midi-Pyrenees,France	42.7600N	1.1893E	900	From 1989-01-01
Salazar	SZVM	Mexico D.F.,Mexico	19.3230N	99.3810W	3357	
Sale College, Sale	AUSSC	Victoria,Australia	38.1000S	147.0800E	19	From 2013-11-08
Salem	SX-	South Dakota,U.S.A.	43.8747N	97.2500W	488	From 1962-11-09 to 1962-12-12
Salem	SALM	Tamil Nadu,India	11.6500N	78.2000E	0	From 2000-01-01
Salem	VSMM	Oregon,U.S.A.	44.9270N	123.1270W	290	
Salem	SX-SD	South Dakota,U.S.A.	43.8747N	97.2500W	488	From 1962-11-09 to 1962-12-12
Sale Mountain	SLEB	British Columbia,Canada	51.1667N	118.1330W	2075	
SALI	SALII	Bolivia	19.6201S	67.7245W	3779	From 1994-05-30 to 1995-08-08
Salina	SNK	Kansas,U.S.A.	38.9530N	97.6030W	407	From 1978-04-18 to 2001-07-15
Salina	U37A	Oklahoma,U.S.A.	36.4060N	95.1161W	248	From 2010-06-17 to 2012-02-19
Salina	SLNA	Italy	38.5636N	14.8329E	361	
Salina IE	ISLN	Sicily,Italy	38.5803N	14.8135E	283	From 1988-01-01
Salinas	SLN	Antofagasta,Chile	23.1539S	69.6111W	1350	
Salinas	SALI	Ecuador	2.1860S	80.9908W	85	From 1996-03-07
Salinas Radio	AN12*	California,U.S.A.	36.6685N	121.5190W	399	From 1969-05-09 to 1977-03-04
Salinas Radio Site	SRC	California,U.S.A.	36.6685N	121.5190W	399	From 1969-05-09 to 1977-03-04
Salinas Radio Site	BSRM	California,U.S.A.	36.6665N	121.5190W	395	From 1977-03-09
Salisbury	DSLB	Dominica	15.4380N	61.4210W	279	From 2014-06-08
Salisbury	P39B	Missouri,U.S.A.	39.4876N	92.7541W	226	From 2011-05-06 to 2012-09-28
Salisbury	P39A	Missouri,U.S.A.	39.4877N	92.7549W	232	From 2010-11-29 to 2011-04-14
Sal'it	SLTI	Israel	32.2405N	35.0403E	250	From 2002-05-28
Salmi	KOVU	Sweden	68.2229N	20.1607E	555	
Salmond Ranch, Choteau	C15A	Montana,U.S.A.	47.7750N	112.6072W	1522	From 2007-09-09 to 2009-08-14
Salo	SAL	Italy	45.6075N	10.5261E	77	
Salom-Alik	SALK	Kyrgyzstan	40.8800N	73.8200E	1672	From 1980-06-22
Salome	Y13A	Arizona,U.S.A.	33.8142N	113.8287W	356	From 2006-03-16 to 2008-10-21
Salr	SALO	Italy	45.6183N	10.5243E	600	From 2005-11-03
Salt	SALJ	Jordan	32.0093N	35.6847E	780	From 1983-09-01
Salta	SLT	Salta,Argentina	24.7833S	65.4167W		
Saltair	SAU	Utah,U.S.A.	40.8197N	112.0730W	1283	From 1974-03-01 to 1982-04-30
Saltdale	SDLC	California,U.S.A.	35.3805N	117.8867W	756	
Saltillo	SALX	Baja California,Mexico	32.4222N	115.1303W	50	From 1994-08-16
Salt Lake City	SLC	Utah,U.S.A.	40.7638N	111.8480W	1423	From 1962-04-01
Salto do Cavalo	SDCA	Azores,Portugal	37.7939N	25.3172W	644	From 1981-01-01
Saltoluokta	SALU	Sweden	67.3801N	18.5067E	500	From 2003-08-24
Salton Sea Test Base	SLTC	California,U.S.A.	33.2648N	115.9232W	-50	
Salto Pilao - PR	SP7	Parana,Brazil	27.1203S	49.4618W	567	From 2007-01-01
Saltpond	SPG	Ghana	5.2000N	1.0667W	50	From 1980-02-01 to 1980-06-30
Salt Prairie Lookout Tower, Alberta	STPRA	Alberta	55.6606N	115.8323W	760	From 2014-07-30
Saltspring Island	SSIB	British Columbia,Canada	48.7558N	123.3875W	12	
Saluda	V53A	North Carolina,U.S.A.	35.6694N	82.8124W	681	From 2012-05-20
Saluda	Y55A	South Carolina,U.S.A.	33.9375N	81.8581W	164	From 2013-02-18
Salum	SLUM	Egypt	31.4916N	25.2123E	107	
Salvajina	SALC	Colombia	2.9729N	76.6952W	1430	From 1988-11-01
Salyersville	S52A	Kentucky,U.S.A.	37.6791N	83.0784W	367	From 2012-05-16
Samad	SMDO	Oman	23.0589N	58.0492E	1000	From 2001-07-01
Samaipata	SMB	Bolivia	18.1667S	63.8500W	1650	
Samana, DR	SMN1	Dominican Republic	19.1878N	69.2733W	521	From 2007-03-01
Samandagi	SMDT	Turkey	36.1090N	35.9490E	20	From 1997-05-01
Samarinda	SMKI	Kalimantan,Indonesia	0.4461S	117.2085E	97	From 2005-01-01
Samarkand	SAM	Uzbekistan	39.6614N	66.9529E	684	From 1913-01-01
Samaxi	SHE	Azerbaijan	40.6380N	48.6390E	840	From 1902-01-01
Sambava	SBV	Madagascar	13.4584S	49.9212E	63	From 2009-11-19
Samburg	DY4	Tennessee,U.S.A.	36.4167N	89.3031W	140	From 1969-01-01 to 1972-12-31
Sameba	SAMG	Georgia,Georgia	41.6972N	44.8157E	465	From 2003-01-01
Samen	HSAM	Iran	34.2116N	48.6023E	2330	From 2011-04-01
Sam Houston State University, Huntsville	438A	Texas,U.S.A.	30.7500N	95.4741W	97	From 2010-02-17 to 2011-12-13
Sammumatsuo	JSMT	Chiba,Japan	35.6427N	140.4483E	34	From 2012-11-01
Samo	SOI	Italy	38.0722N	16.0550E	300	
Samoens	OG03	Rhone-Alpes,France	46.0667N	6.7305E	1000	From 1990-04-25
Samokov	SAMO	FYR Macedonia	41.6928N	21.1392E	638	From 2004-01-01
Samos	SMG	Greece	37.7087N	26.8370E	340	From 1989-06-01
Samos	SMS	Greece	37.8000N	26.7000E		
Samothraki Island	SMTH	Greece	40.4709N	25.5304E	365	From 2009-04-08
Samovar Hills	SAMH	Alaska,U.S.A.	60.1298N	140.7809W	1140	
Sampolo	SMPL	Corse,France	42.0940N	9.2850E	405	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Samsun-Alacam	SAMS	Turkey	41.3610N	36.1872E	192	From 2010-12-01
Samsville	SMV	Illinois,U.S.A.	38.4890N	88.0820W	134	From 1974-04-01
Samuel	SRB	Rondonia,Brazil	8.8333S	63.4717W		
Samuel	SAML	Rondonia,Brazil	8.9488S	63.1832W	101	
Samuel, RO	SAMU	Rondonia,Brazil	8.9153S	63.2507W	125	From 2014-02-15
Sam W. Stewart, Westmorland	SWSC	California,U.S.A.	32.9451N	115.7999W	140	From 1997-09-20
San'a	SANA	Yemen	15.3870N	44.2050E	2280	
Sanada	SDJ	Nagano,Japan	36.4367N	138.3050E	660	From 1968-07-01 to 1973-03-31
Sanae	SNA	Dronning Maud Land	70.3150S	2.3250W	57	
Sanae	SNAA	Dronning Maud Land	71.6707S	2.8379W	846	
Sanak Island	SNKA	Alaska,U.S.A.	54.4740N	162.7750W	159	
Sanana	SANI	Moluccas,Indonesia	2.0496S	125.9881E	28	From 2009-12-03
Sanandaj	SNGE	Iran	35.0925N	47.3470E	1940	From 2004-04-04
San Andreas	JSAM	California,U.S.A.	37.5825N	122.4170W	207	From 1973-10-01
San Andreas	SAC	California,U.S.A.	37.5825N	122.4170W	207	From 1973-10-01
San Andreas Geological Observatory	SAO	California,U.S.A.	36.7640N	121.4472W	317	From 1966-01-01
San Andreas Lake	JSLM	California,U.S.A.	37.5760N	122.4233W	335	
San Andreas Lake	LT9	California,U.S.A.	37.5760N	122.4230W	335	From 1967-07-13 to 1972-09-27
San Andres	CEDA	El Salvador	13.8028N	89.3949W	455	From 2012-05-24
San Andres	SRD	Colombia	6.8132N	72.8503W	1640	From 1975-01-25
San Andres	AUQP	Luzon,Philippines	13.3230N	122.6750E	50	
San Angelo	331A	Texas,U.S.A.	31.3085N	100.4266W	615	From 2009-03-05 to 2011-01-22
San Angelo	SA4TX	Texas,U.S.A.	31.8247N	101.4264W	792	From 1967-04-17 to 1967-05-23
San Angelo	SA2	Texas,U.S.A.	31.5500N	100.9075W	732	From 1967-04-16 to 1967-05-16
San Angelo	SA2TX	Texas,U.S.A.	31.5500N	100.9075W	732	From 1967-04-16 to 1967-05-16
San Angelo	SA4	Texas,U.S.A.	31.8247N	101.4264W	792	From 1967-04-17 to 1967-05-23
San Antonio	SLP	Guatemala	14.7430N	90.2828W	1410	From 1978-06-01
San Antonio Reservoir	PANM	California,U.S.A.	35.7797N	120.9070W	451	
San Antonio Texas	SAT1	Texas,U.S.A.	28.5550N	98.6450W	-27	From 2010-04-30
San Ardo	PSAM	California,U.S.A.	36.0253N	120.8880W	184	
Sanarito	SANV	Venezuela	9.5010N	69.5360W	1083	From 2002-05-29
Sanatorio Duran	SDS	Costa Rica	9.9333N	83.8836W	2340	
Sanatorio - la Vina	AHLV	Salta,Argentina	25.4700S	65.5600W	1200	From 1983-01-18
San Bartolome de la Torre, Huelva	E008	Spain	37.4969N	7.1304W	184	From 2007-09-26 to 2009-06-23
San Bartolomeo in Bosco (FE)	T0816	Italy	44.7207N	11.5976E	0	From 2012-05-20 to 2012-09-18
San Benito	BBNM	California,U.S.A.	36.5095N	121.0760W	442	From 1971-01-28
San Benito	SBT	California,U.S.A.	36.5095N	121.0760W	442	From 1971-01-28
San Bernardino	IIB	Puebla,Mexico	18.9640N	98.3447W	2380	
San Bernardino Valley	SBVC	California,U.S.A.	34.0881N	117.3110W		
San Blas	SBLS	El Salvador	13.8393N	89.6230W	1949	
Sanborn	SANY	New York,U.S.A.	43.1738N	78.8703W	172	From 1977-10-19 to 2002-12-20
Sanbornton	NH1	New Hampshire,U.S.A.	43.5473N	71.5743W	402	
San Bruno Mountain	JSBM	California,U.S.A.	37.6790N	122.3970W	194	
San Calixto	LPZ	Bolivia	16.4953S	68.1327W	3658	From 1912-01-01
San Caprasio	ESAC	Spain	41.7219N	0.4693W	815	
San Carlo, Sant'Agostino (FE)	CAS05	Italy	44.8022N	11.4097E	9	From 2012-05-24
San Carlos High School, San Carlos	Z17A	Arizona,U.S.A.	33.2969N	110.4723W	846	From 2007-04-16 to 2009-01-21
San Casciano dei Bagni	SACS	Italy	42.8491N	11.9097E	845	From 2004-12-16
SANCHEONG	KSSAC	Republic of Korea	35.4060N	127.8754E	139	From 2000-12-06
Sanchez	DR13	Dominican Republic	19.2405N	69.5887W	400	
San Clemente Island	SCI	California,U.S.A.	32.9800N	118.5470W	219	From 1967-07-27
San Clemente Island 2	SCI2	California,U.S.A.	32.9799N	118.5470W	199	From 2003-10-23
San Cristobal	SCRV	Venezuela	7.7889N	72.1917W	818	
San Cristobal	SCR	Santiago,Chile	33.5000S	71.0000W		
San Cristobal	SCX	Chiapas,Mexico	16.7358N	92.6345W		From 1987-01-01
San Cristobal	CRIN	Nicaragua	12.7000N	87.0500W	685	
Sandakan	SDKM	Sabah,Malaysia	5.6410N	117.1950E	523	From 2003-04-01
San Damiano	DOI	Italy	44.5041N	7.2466E	1039	
Sand Bay	SBY	Alaska,U.S.A.	51.9976N	176.0920W		From 1948-08-01 to 1951-12-31
Sand Canyon	SNDC	California,U.S.A.	35.1426N	118.3029W	1294	
Sand Creek	SCRK	Alaska,U.S.A.	63.9769N	143.9859W	1375	
Sand Creek, Windsor	P44A	Illinois,U.S.A.	39.4676N	88.6209W	195	From 2011-08-06 to 2013-04-29
Sanders	W19A	Arizona,U.S.A.	35.1118N	109.3879W	1785	From 2007-04-29 to 2009-02-02
Sanderson	SS-	Texas,U.S.A.	30.0214N	102.3281W	732	From 1961-10-19 to 1963-06-11
Sanderson	SS-TX	Texas,U.S.A.	30.0214N	102.3281W	732	From 1961-10-19 to 1963-06-11
Sanderson Ranch, Post	Z30A	Texas,U.S.A.	33.2861N	101.1282W	729	From 2009-03-10 to 2011-02-06
Sanders Place, Florence	R24A	Colorado,U.S.A.	38.2315N	105.1075W	1978	From 2008-06-02 to 2010-05-04
Sandfield	F49A	Ontario,Canada	45.7627N	82.0423W	230	From 2012-11-10
Sand Hill	SDHHI	Hawaii,U.S.A.	19.3895N	155.2940W	1133	
Sandia	CSAM	California,U.S.A.	37.6737N	121.7040W	215	From 1979-10-09
San Diego	SDC	California,U.S.A.	32.6833N	117.2420W		
San Diego	SND	California,U.S.A.	32.7667N	117.0670W	125	
San Diego Bay	SGB	Alaska,U.S.A.	55.5458N	160.4540W	275	
San Diego Road Dept, El Cajon	SDRC	California,U.S.A.	32.7356N	116.9424W	113	From 2001-04-20
Sandimen	SSD	Taiwan region	22.7460N	120.6320E	148	
San Donato	SDI	Italy	41.7092N	13.8103E	720	From 1984-06-01
Sand Pete Hill	YUK1	Yukon Territory,Canada	62.1533N	140.5287W	1557	From 2010-08-25
Sandpoint	B11A	Idaho,U.S.A.	48.4366N	116.3674W	870	From 2006-10-05 to 2008-06-12
Sand Point	SDPT	Alaska,U.S.A.	55.3492N	160.4766W	74	
Sand Point	SDN	Alaska,U.S.A.	55.3413N	160.4970W	23	From 1978-10-12 to 2004-09-10
Sand Point	SASA	Alaska,U.S.A.	55.3400N	160.4970W	23	
Sand Point BB	SPBA	Alaska,U.S.A.	55.3498N	160.4760W	90	From 1993-07-01
Sandrigo	SANR	Italy	45.6400N	11.6099E	51	From 2007-12-19
Sandskeio	ISAN	Iceland	64.0560N	21.5700W	208	From 1996-10-14
Sandspit	SSQ	British Columbia,Canada	53.2500N	131.8170W	3	From 1977-07-14 to 1978-03-18
Sandwick	SAN1	Shetland Islands,United Kingdom	60.0179N	1.2392W	150	From 1985-01-01
Sandwick	SANU	Shetland Islands,United Kingdom	60.0176N	1.2386W	150	
Sandy Floe Quarry	P403	Washington,U.S.A.	48.0624N	124.1409W	314	From 2005-06-21
Sandy Hook	SHTN	Tennessee,U.S.A.	35.4597N	87.1297W	323	From 1985-09-27 to 1989-06-30
Sandy Lake, NWT	SNLN	Northwest Territories,Canada	62.8304N	107.6119W	0	From 2008-07-12
San Emigdio	SEGC	Colombia	3.5469N	76.2010W	1384	
San Esteban	VA03	Valparaˆ›so	32.7637S	70.5508W	1053	From 2013-11-28
San Fabiˆ¡n de Alico	BI02	Bio-Bio	36.6634S	71.2732W	913	From 2014-01-10
San Fele	SFL3	Italy	40.7889N	15.5782E	1062	
SanFelice sul Panaro (MO)	T0802	Italy	44.8750N	11.1816E	8	From 2012-05-21 to 2012-08-27
San Felipe	SFX	Baja California,Mexico	30.8810N	114.7520W	55	
San Felipe	HFEM	California,U.S.A.	36.9833N	121.4010W	323	From 1971-10-14
San Felipe	SFL	California,U.S.A.	36.9833N	121.4010W	323	From 1971-10-14
San Felipe	SFP	Baja California,Mexico	31.0317N	114.8300W	4	From 1969-04-26
San Felipe	BS07	Bolivia	17.9703S	67.1287W	4097	From 2012-01-18
San Felipe Oˆ–a, Saraguro	ONHA	Ecuador	3.4775S	79.1631W	2361	From 2012-07-18
San Felix	SFX2	Panama	8.2935N	81.8688W	0	
San Fernando	SFUC	Spain	36.6370N	6.1750W	88	
San Fernando	SFDO	O'Higgins,Chile	34.6143S	71.0138W	690	
San Fernando	SFS	Spain	36.4656N	6.2055W	21	
San Fidel	W21A	New Mexico,U.S.A.	35.1170N	107.6476W	1966	From 2008-01-12 to 2010-02-07
San Francisco	SFB	California,U.S.A.	37.7767N	122.4520W	100	From 1931-04-01 to 1964-12-31
San Francisco	FRCO	California,U.S.A.	37.7520N	122.4767W	115	From 2011-05-18
San Francisco	SFC	California,U.S.A.	37.7667N	122.4170W		
San Francisco	SFM	California,U.S.A.	37.7644N	122.4370W	103	
San Francisco Camp Mather, Mather	S06C	California,U.S.A.	37.8817N	119.8488W	1377	From 2005-10-08 to 2007-10-04
San Francisco de Macorix	SFM1	Dominican Republic	19.2874N	70.2441W	114	From 2011-06-17
San Francisco--Rincon	SFR	California,U.S.A.	37.7880N	122.3890W	8	
San Fratello	ME02	Italy	38.0332N	14.5901E	677	From 2007-10-19 to 2009-02-03
San Fratello	MSFR	Sicily,Italy	38.0330N	14.5910E	708	From 2010-12-22
Sangatta, Kalimantan	SGKI	Kalimantan,Indonesia	0.5300S	117.6040E	178	From 2008-12-01
S. Angelo Dei Lombardi	SNAL	Italy	40.9254N	15.2091E	874	From 2004-08-24
Sangemini	USGN	Italy	42.6042N	12.5378E	342	From 2005-10-30
San Gibilmanna	SG6*	Sicily,Italy	37.9869N	14.0261E		From 1966-04-01 to 1966-05-01
Sangihe	SGSI	Mindanao,Philippines	3.6860N	125.5286E	100	From 2005-01-01
Sangi-Kar	SNGI	Tajikistan	39.0300N	70.1300E	1400	
San Giovanni Incarico	LIK	Italy	41.5047N	13.5580E	196	From 2010-02-12
San Giovanni Rotondo	SGRT	Italy	41.7546N	15.7437E	960	From 2006-05-24
San Giuliano del Sannio	MSSG	Italy	41.4561N	14.6385E	639	From 2008-05-10
San Giustino Valdarno	TSGT	Italy	43.5579N	11.7020E	330	From 2006-05-18
San Giusto Canavese	PCNV	Italy	45.3120N	7.7910E	89	From 2005-12-03
Sangju	KSSAJ	Republic of Korea	36.4080N	128.1575E	128	From 2006-12-30
San Gregorio	SGP	Peru	16.5621S	72.7136W	108	
San Gregorio	GIO	Sicily,Italy	37.5667N	15.1083E	330	From 1989-02-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Sangsangzhen, Xizang Zizhiqu	SSAN	Xizang Zizhiqu,China	29.4238N	86.7290E	4585	From 2001-09-14 to 2002-09-08
Sang-Tuda	SAT	Tajikistan	37.9667N	69.0333E		
Sanguang	NSK	Taiwan region	24.6760N	121.3580E	682	
Sanharo	SABR	Pernambuco,Brazil	8.3138S	36.5536W	760	From 2007-01-01
San Ignacio	SIV	Bolivia	15.9913S	61.0722W	520	From 1990-03-01
San Ignacio de Huinay	LL01	Los Lagos	42.3787S	72.4126W	62	From 2013-10-05
Sanikiluaq	SNQN	Quebec,Canada	56.5418N	79.2254W	15	From 2006-09-20
Sanikiluaq	SAKN	Quebec	56.5359N	79.2323W	2	From 2014-11-25
Sanikiluaq	SNKN	Quebec,Canada	56.5362N	79.2315W	10	From 2009-07-25
San Jacinto	SJAS	El Salvador	13.6667N	89.1667W	1100	
San Jacinto, Colombia	SJCC	Colombia	9.8967N	75.1795W	596	From 2011-05-03
San Javier	SJVR	Maule,Chile	35.5902S	71.7383W	97	
San Javier	SJC	Linares,Chile	35.6417S	71.7250W	80	
San Jeronimo	SJRM	Guerrero,Mexico	17.1380N	100.4740W	40	
San Joaquin	SJX	Baja California,Mexico	31.7628N	115.9590W		From 1986-01-01
San Joaquˆ›n	BB03	Bolivia	17.0312S	64.8752W	240	From 2011-11-24
San Joaquin Reservoir	SJQ	California,U.S.A.	33.6200N	117.8450W	165	From 1971-07-07 to 1999-08-25
San Jorge	JORG	Ecuador	0.2172S	78.6457W	2800	
San Jorge 1	JOR1	Ecuador	0.0001S	78.6387W	2690	
San Jose	SNJE	El Salvador	13.8683N	89.6057W	1694	
San Jose	SJR	Costa Rica	9.9350N	84.0778W	1156	
San Jose	SJMP	Mindoro,Philippines	12.4610N	121.1190E	27	
San Jose	SJ-TX	Texas,U.S.A.	27.6119N	98.3128W	114	From 1961-11-01 to 1967-09-30
San Jose, Antique	JAP	Philippines	10.7472N	121.9465E	18	From 2010-06-23
San Jose de las Matas	DR02	Dominican Republic	19.3542N	70.7718W	490	
San Jose del Guaviare	GUVC	Colombia	2.5448N	72.6273W	217	
San Jose del Monte	SBPH	Luzon,Philippines	14.7950N	121.1160E	240	
San Josˆ' del Palmar, Chocˆ‡	PLMC	Colombia	4.9052N	76.2827W	675	From 2011-10-04
San Jose de Maipo	SJCH	Santiago,Chile	33.6407S	70.3538W	997	
San Josˆ' de Urˆ', Cordoba	UREC	Colombia	7.7517N	75.5327W	251	From 2012-04-27
San Jose Maipo	SJM	Santiago,Chile	33.6500S	70.3667W	967	
San Jose (USA)	SJ-	Texas,U.S.A.	27.6119N	98.3128W	114	From 1961-11-01 to 1967-09-30
San Juan	SJA	San Juan,Argentina	31.5277S	68.5607W	660	
San Juan	SJU	Peru	15.3560S	75.1790W	75	
San Juan	JUAN	Ecuador	0.2083S	78.5917W	3590	
San Juan	SJG	Puerto Rico	18.1117N	66.1500W	45	From 1964-09-23
San Juan	SJP	Puerto Rico	18.3817N	66.1183W	80	From 1925-12-01 to 1965-12-31
San Juan 2	JUA2	Ecuador	0.2138S	78.6052W	3670	
San Juan Bautista	HBTM	California,U.S.A.	36.8502N	121.5510W	98	From 1975-06-05
San Juan Bosco	BOSC	Ecuador	3.1512S	78.4951W	1398	From 2012-11-21
San Juan de Arama, Meta	SJAC	Colombia	3.2730N	73.9510W	969	From 2010-11-01
San Juan de la Maguana	SJM1	Dominican Republic	18.8030N	71.2189W	434	From 2011-06-14
San Juan del Sur	SSNN	Nicaragua	11.2878N	85.8495W	415	
San Juan del Sur	SSN	Nicaragua	11.3012N	85.8535W	160	From 1975-01-01
San Juan de Rio Coco, Nicaragua	RCON	Nicaragua	13.4842N	86.1560W	1324	From 2012-04-15
San Juan Grade	AN3*	California,U.S.A.	36.7980N	121.5740W	171	From 1967-06-21
San Juan Grade	HJGM	California,U.S.A.	36.7980N	121.5740W	171	From 1967-06-21
San Juan, Peru	SJN	Peru	13.4117S	75.9467W	500	
SanJuan Tecuaco	SJT	Guatemala	14.0813N	90.2688W	460	From 1980-02-01 to 1999-08-25
San Juan (W)	SJGC	Puerto Rico	18.1117N	66.1500W	45	From 1964-09-23
Sankt Quirin	SQTA	Austria	47.2205N	11.2087E	1307	From 1989-05-01
San Lazaro	A490	Costa Rica	10.2723N	85.4582W	0	From 2000-01-01
San Leandro Hills	CSLM	California,U.S.A.	37.7242N	122.1193W	219	
SANLIURFA_Merkez	SANL	Turkey	37.1712N	38.9892E	505	From 2011-10-31
SANLIURFA_SURC	SURC	Turkey	36.8793N	38.6128E	632	From 2010-11-28
San Lorenzo	LORV	Venezuela	9.7821N	71.0631W	0	
San Lorenzo	SLA	Salta,Argentina	24.7212S	65.5045W	1520	From 1977-02-01
San Lorenzo	LORE	Ecuador	1.2960N	78.8453W	1	From 1992-07-08
San Lorenzo Bellizzi	SALB	Italy	39.8772N	16.3459E	1200	From 2009-09-03
San Luis	SLU	Arizona,U.S.A.	32.5017N	114.7770W	41	From 1973-04-16
San Luis	T24B	Colorado,U.S.A.	37.0624N	105.3817W	2625	From 2009-08-14 to 2010-04-12
San Luis Creek Check 11 ,Merced County	SCKWR	California,U.S.A.	37.1833N	121.0702W	69	From 2004-05-04
San Luis Dam	SLD	California,U.S.A.	37.0747N	121.2210W	443	From 1965-11-01
San Luis Dam	HSLM	California,U.S.A.	37.0802N	121.0940W	122	From 1974-03-02
San Luis Fatjo Ranch, Merced County	SFJWR	California,U.S.A.	37.0493N	121.1725W	427	From 2004-05-04
San Luis R˜›o Colorado	SLX	Sonora,Mexico	32.4560N	114.7048W	40	From 2008-10-03
San Manuel, Pangasinan, Philippines	SMPP	Luzon,Philippines	16.1503N	120.6800E	300	From 2012-09-04
San Marcial	SMNM	New Mexico,U.S.A.	33.7787N	107.0190W	1560	
San Marco di Savelli	SAVE	Italy	42.7171N	13.1360E	1113	From 2011-10-01
San Marcos	LOMA	El Salvador	13.6520N	89.1740W	165	
San Marcos	SMCN	Nicaragua	11.9067N	86.2019W		From 1990-01-01
San Marcos	SANM	El Salvador	13.6620N	89.1830W	762	
San Marcos	SMAM	Guerrero,Mexico	16.7855N	99.3982W		
San Marino	ESMR	San Marino	43.9159N	12.4407E	511	From 2006-07-18
San Martin	MRA	San Luis,Argentina	32.4190S	65.7172W	1095	From 1983-11-01
San Martin Antarctic Base	SMAI	Antarctic Peninsula	68.1302S	67.1059W	8	From 2007-02-02
San Martˆ›n de Loba, Colombia	SMLC	Colombia	8.8010N	74.0713W	116	From 2012-10-28
SAN MARTINO	SMA1	Italy	42.6305N	13.3353E	1150	From 2009-08-13
San Martino d'Ocre	RM03	Italy	42.2743N	13.4717E	1483	From 2009-04-06 to 2009-08-31
San Miguel	SMX	Baja California,Mexico	31.6880N	115.9040W		
San Miguel	VSM	El Salvador	13.4281N	88.2742W	2129	
San Miguel	SMMM	Mexico D.F.,Mexico	19.7398N	98.7405W		From 1988-01-01
San Miguel	MGUL	Ecuador	0.2587S	78.5843W	3498	
San Miguel	SMIG	El Salvador	13.4390N	88.1590W	114	
San Miguel Island	BSM	California,U.S.A.	34.0375N	120.3500W	172	From 1969-11-01
San Miguel Ranch, Cuba	V22A	New Mexico,U.S.A.	35.9138N	106.9094W	2164	From 2008-05-02 to 2010-04-04
San Nicola dell'Alto	LADO	Italy	39.2840N	16.9795E	488	From 2008-05-10
San Nicolas Island	SNC	California,U.S.A.	33.2483N	119.5230W	275	From 1957-07-24 to 1968-01-24
San Nicolas Island	SNCC	California,U.S.A.	33.2479N	119.5244W	275	From 1994-05-01
San Nicolas Island	BSN	California,U.S.A.	33.2450N	119.5070W	259	From 1970-03-01
Sannotorii	STRE	Nagano,Japan	36.4014N	138.5517E	1825	
San Onofre	SNS	California,U.S.A.	33.4322N	117.5490W	152	From 1975-01-01
San Pablo	PAB	Spain	39.5458N	4.3483W	938	From 1992-10-01
San Pablo	EPAB	Spain	39.5449N	4.3499W	946	
San Pablo Dam	ZSP	California,U.S.A.	37.9450N	122.2570W	119	From 1978-11-03
San Pablo de Borbur, Boyacˆ¡	SPBC	Colombia	5.6520N	74.0720W	799	From 2013-07-12
San Pablo Ridge	CSPM	California,U.S.A.	37.9575N	122.3110W	216	
San Pedro	U73B	Valparaiso,Chile	33.9164S	71.4198W	186	
San Pedro de Atacama	SPCH	Antofagasta,Chile	22.9083S	68.1994W	2455	From 2004-07-30
San Pedro de Concepcion	CCSP	Bio-Bio,Chile	36.8443S	73.1087W	35	From 2009-07-23
San Pedro Hill	SPH	California,U.S.A.	33.7467N	118.3350W	445	From 1971-07-07 to 1974-03-31
San Pedro Martir	SPIG	Sonora,Mexico	31.0458N	115.4658W	2780	
San Pedro Martir	SPX	Baja California,Mexico	31.0451N	115.4636W	2835	From 1981-10-20
San Pedro Poas	SPS	Costa Rica	10.0776N	84.2512W	1120	
San Pedro Sula	SSU	Honduras	15.5000N	88.0500W	200	
San Pelino (Cagnano Amiterno)	T0107	Italy	42.4726N	13.2475E	1145	From 2009-04-09
San Possidonio	CORR	Italy	44.9020N	11.0095E	12	
San Potito Sannitico (CE)	T1011	Italy	41.3596N	14.4175E	1151	From 2013-12-30 to 2014-03-03
San Rafael	RFA	Mendoza,Argentina	34.7708S	68.4660W	850	
San Rafael Swell	SRU	Utah,U.S.A.	39.1108N	110.5238W	1804	From 1990-11-20
San Ramon	SRA	Costa Rica	10.0825N	84.4482W	1160	From 1974-01-01
San Ramon	CRAM	California,U.S.A.	37.7672N	121.9380W	171	From 1976-09-02 to 2008-07-16
San Ramˆ‡n	SRA1	Costa Rica	10.0850N	84.4800W	1101	
Sanriku	SNI	Iwate,Japan	39.1067N	141.7580E	518	
San Roque	SRQ	Spain	36.2575N	5.3742W	202	
San Salvador	OPAM	El Salvador	13.7170N	89.2010W	650	
San Salvador	SSS	El Salvador	13.6811N	89.1981W	665	
San Salvador	UEES	El Salvador	13.7270N	89.2430W	853	
San Salvador	UTEC	El Salvador	13.7010N	89.2020W	683	
San Salvador	CLUB	El Salvador	13.7020N	89.2600W	745	
San Salvador	CUSC	El Salvador	13.7330N	89.1890W	668	
San Salvador	UESS	El Salvador	13.7050N	89.2010W	694	
Sansepolcro	SSP9	Italy	43.5739N	12.1314E	207	From 2010-12-15
San Sevaine	SS2	California,U.S.A.	34.2077N	117.5000W		From 1976-01-01
San Severino Marche	SSM1	Italy	43.2288N	13.1770E	240	From 2011-04-24
San Sossio Baronia	SSB3	Italy	41.0785N	15.2292E	724	
Sans Toucher	SSG	Guadeloupe,France	16.0887N	61.6788W	1210	
Santa	SZP	Luzon,Philippines	17.5510N	120.4560E	50	From 1979-04-11
Santa Ana	ANIL	Colombia	4.4910N	75.4030W	2300	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Santa Ana	UNIC	El Salvador	13.9910N	89.5590W	660	
Santa Ana	SANC	California,U.S.A.	33.7053N	117.8858W	11	
Santa Barbara	ASBA	Azores,Portugal	38.7203N	27.3253W	675	From 1981-04-16
Santa Barbara	ASTB	Jujuy,Argentina	23.9482S	64.4532W	1490	
Santa Barbara	SBC	California,U.S.A.	34.4417N	119.7133W	90	From 1927-05-10
Santa Barbara Island	SBI	California,U.S.A.	33.4807N	119.0290W	6	
Santa Catalina Island West	CIW	California,U.S.A.	33.4653N	118.5520W	50	
Santa Cesarea Terme	SCTE	Italy	40.0724N	18.4675E	150	From 2006-02-02
Santa Chiara	ECHR	Sicily,Italy	37.6863N	14.9129E	1168	From 2009-02-03
Santa Clara	STCC	California,U.S.A.	34.3030N	119.1868W	180	
Santa Clara	PFSC	Portugal	37.4738N	8.4260W	218	From 1996-01-01 to 2009-05-30
Santa Clara	SCUT	Utah,U.S.A.	37.1282N	113.6447W	837	From 2008-05-01
Santa Clara	SCL	California,U.S.A.	37.3500N	121.9500W	28	From 1909-01-01 to 1955-12-31
Santa Clara	EGX	Sonora,Mexico	31.7102N	114.4780W		From 1981-09-22
Santa Clara County Offices	SCCB	California,U.S.A.	37.2874N	121.8642W	98	
Santa Cristina (Gubbio) - PG	AT09	Italy	43.3144N	12.5405E	521	From 2010-03-31
Santa Cruz	STCR	O'Higgins,Chile	34.6408S	71.3647W	175	
Santa Cruz	SCA	Patagonia,Argentina	49.8333S	72.0500W		
Santa Cruz	SCRN	Nicaragua	12.7317N	86.9383W	500	
Santa Cruz	SCC	California,U.S.A.	37.0067N	121.9970W	128	From 1961-06-11 to 1965-02-28
Santa Cruz	SCZP	Luzon,Philippines	15.7760N	119.9110E	21	
Santa Cruz	SCZ	California,U.S.A.	36.5980N	121.4030W	261	From 1986-11-06
Santa Cruz	STGR	Azores,Portugal	39.0802N	28.0031W	124	From 1990-07-19
Santa Cruz, CA USA	HUG01	California	36.9503N	122.0526W	20	From 2014-12-21
Santa Cruz Island	BSC	California,U.S.A.	33.9947N	119.6330W	457	From 1969-11-01
Santa Cruz Island 2	SCZ2	California,U.S.A.	33.9954N	119.6351W	440	From 2003-11-04
Santa Domenica Talao (CS)	T0712	Italy	39.8205N	15.8519E	248	From 2011-11-26
Santa Elena	AR5	Costa Rica	10.3414N	84.8247W	1420	
Santaella, Cordoba	E020	Spain	37.5653N	4.8445W	309	From 2007-07-05 to 2009-06-22
Santa Fe	PT09	Peru	11.6670S	76.1930W	5200	From 1983-08-26
Santa Fe	SFJM	Jalisco,Mexico	20.4865N	103.0395W	1500	
Sant Agata di Puglia	SGTA	Italy	41.1350N	15.3650E	890	From 2006-01-18
Santa Helena	SHP	Peru	16.1972S	72.4739W	471	
Santa Helena	HELC	Colombia	6.1908N	75.5288W	2815	From 1994-01-01
Santa Isabel	ISAV	Venezuela	9.5068N	70.8563W		
Santa Julia	SJUZ	El Salvador	13.5200N	88.5335W	1024	
Sant'Alfio	ESAL	Sicily,Italy	37.7545N	15.1345E	720	From 1994-10-01
Santa Lucia	STL	Santiago,Chile	33.4361S	70.6411W	595	
Santa Margarita	PMGM	California,U.S.A.	35.4298N	120.5200W	529	
Santa Maria	PSMA	Azores,Portugal	36.9950N	25.1288W	123	
Santa Maria do Tocantins	SMTB	Tocantins,Brazil	8.8617S	47.5887W	310	From 2011-09-05
Santa Maria Island	SAZ	Azores,Portugal	36.9717N	25.1683W		
Santa Marinella - RM	TO05	Italy	42.0615N	11.8646E	88	From 2008-04-28 to 2009-04-02
Santa Marta, Magdalena	SMRC	Colombia	11.1638N	74.2245W	122	From 2012-09-15
Santandra', Italy	MSTD	Italy	45.7486N	12.2003E	101	From 2010-06-08
Sant'Angelo in Pontano	SAP2	Italy	43.0967N	13.3992E	402	From 2010-09-08
Sant'Angelo In Vado	SAIV	Italy	43.6648N	12.4131E	360	From 2013-12-17
Sant Anna di Valdieri	STV	Italy	44.2455N	7.3260E	930	From 1966-01-01
Sant' Anna di Valdieri 2	STV2	Italy	44.2455N	7.3260E	930	From 1995-01-01 to 2007-12-31
Santa Pau	NE30	Spain	42.1600N	2.6450E	245	
Santaquin	SNQU	Utah,U.S.A.	39.7947N	111.9030W	1853	From 1990-08-30
Santaquin Canyon	SUU	Utah,U.S.A.	39.8887N	111.7920W	1987	From 1974-09-01 to 1990-08-21
Santa Rosa	SRP	Puebla,Mexico	18.8967N	97.7800W		
Santa Rosalia	SRIG	Baja California,Mexico	27.3198N	112.2410W	61	From 2008-02-20
Santa Rosalia	SRL	Baja California,Mexico	27.3288N	112.2760W		
Santa Rosalia	SRV	Venezuela	8.5480N	71.2860W	1300	
Santa Rosa Mine	SME	California,U.S.A.	33.8227N	117.3550W	494	
Santa Rosa Mountain	SMO	California,U.S.A.	33.5358N	116.4617W	0	
Sant'Arsenio	SRN3	Italy	40.4861N	15.4580E	1067	
Santa Sofia	SFI	Italy	43.9048N	11.8469E	548	From 1987-01-01
Santa Teresa Hills	JSTM	California,U.S.A.	37.2068N	121.7970W	149	From 1975-10-02
Santa Venerina	EVRN	Sicily,Italy	37.6887N	15.1355E	364	From 1989-04-01
Santa Ynez Peak	SYP	California,U.S.A.	34.5267N	119.9780W	1305	From 1967-06-07
Sant'Elia a Pianisi	CIGN	Italy	41.6542N	14.9050E	350	From 2003-03-26
Santiago	SAN	Santiago,Chile	33.4531S	70.6617W	533	
Santiago	PUCM	Dominican Republic	19.4403N	70.6814W	177	From 2007-01-01
Santiago	STS	Spain	42.8860N	8.5509W	265	
Santiago aeropuerto	SC02	Dominican Republic	19.4027N	70.6047W	196	From 2011-06-18
Santiago de Compostela	NE26	Spain	42.8860N	8.5520W	245	
Santiago de los Caballeros	SC01	Dominican Republic	19.4272N	70.7277W	229	From 2012-03-14
Santiago de Maria	SDMZ	El Salvador	13.4738N	88.4847W	900	
Santiago Espada	SESP	Spain	38.1200N	2.5452W	1528	
Santiago Estero	SDE	Santiago del Estero,Argentina	27.8217S	64.2450W	177	
Santiago Island	SACV	Cape Verde Islands	14.9702N	23.6085W	387	
Santiago Maria	SDM	El Salvador	13.4861N	88.4706W	905	
Santiaguito	SOG	Guatemala	14.7763N	91.5877W	2950	From 1984-02-01
Santiaguito 2	SOG2	Guatemala	14.7172N	91.5703W	1560	From 1987-01-01
Santiao Chiao	TWB1	Taiwan region	25.0083N	121.9883E	20	From 1984-04-06
Santo Amaro	PAMA	Azores,Portugal	38.6797N	28.1798W	388	From 2005-08-01
Santo Antonio	PSAN	Azores,Portugal	37.8512N	25.7259W	395	From 2004-07-01
Santo Antonio do Leverger, MT	SALV	Mato Grosso,Brazil	15.9012S	55.6936W	213	From 2012-06-01
Santo Domingo	VA05	Valparaˆ›so	33.6571S	71.6143W	80	From 2014-10-22
Santo Domingo	SDV	Venezuela	8.8861N	70.6333W	1580	From 1975-06-01
Santo Domingo	SDD	Dominican Republic	18.4579N	69.9134W	10	
Santo Domingo	STDO	Dominican Republic	18.4506N	69.9264W	12	
Santo Domingo	ASDO	Ecuador	0.2625S	79.1238W	615	From 2010-08-03
Santoft	WSNZ	North Island,New Zealand	40.1088S	175.1888E	25	From 1982-10-15 to 1982-10-24
Santoft	WSFZ	North Island,New Zealand	40.1158S	175.2028E	25	From 1982-10-14 to 1982-10-15
Santorini	SANT	Greece	36.3710N	25.4590E	540	
Santorini-Akrotiri	SAP1	Greece	36.3579N	25.3957E	151	From 2011-06-24
Santorini-Faros Akrotiriou	THR9	Greece	36.3577N	25.3569E	54	From 2011-12-13
Santorini-Monolithos	THR8	Greece	36.4070N	25.4788E	30	From 2011-05-27
Santorini-Oia	SAP4	Greece	36.4734N	25.3724E	56	From 2011-06-24
Santorini-Thirassia	SAP3	Greece	36.4356N	25.3454E	205	From 2011-06-23
San Vicente	SNVI	El Salvador	13.6125N	88.8388W	1312	
San Vito	EDSV	Costa Rica	8.8200N	82.9720W	1024	
San Vito de Coto Brus	SVTC	Costa Rica	8.7853N	82.9587W	1227	From 2005-03-15
San Vittorino	T0102	Italy	42.3967N	13.3139E	707	From 2009-04-06 to 2009-09-01
Sanyi	NSY	Taiwan region	24.4160N	120.7610E	311	
San Ysidro	SYS	California,U.S.A.	32.5797N	116.9115W	277	
San Zeno di Montagna	ZEN8	Italy	45.6378N	10.7319E	596	From 2006-06-30
San Zeno Di Montagna	VRZA	Italy	45.6257N	10.7176E	550	From 2001-01-01
Sao Bartolomeu	PFSB	Portugal	37.2492N	8.3262W	171	From 1996-01-01 to 2009-05-30
S˜£o Bento	PSBE	Portugal	39.5142N	8.7955W	510	From 2014-03-10
Sao Brissos	EVOP	Portugal	38.5280N	8.1236W	93	From 1997-06-01
SAO DESIDERIO	SDBA	Bahia,Brazil	12.4085S	44.9030W	623	From 2013-11-10
S˜£o Jo˜£o Batista-SC	MAJ01	Parana,Brazil	27.3972S	49.0118W	344	From 2011-01-30
Sao Joao De Manteninha	SJMB	Minas Gerais,Brazil	18.7032S	41.1848W	234	
Sao Joao Dos Patos	BESB	Maranhao,Brazil	6.6569S	43.5586W	245	From 2009-07-01
Sao Joaquim do Monte	AGBR	Pernambuco,Brazil	8.4295S	35.8361W	470	From 2007-01-01
S˜£o Miguel do Araguaia, GO, Brazil	RET8	Goias,Brazil	12.9728S	50.0986W	264	From 2008-07-17 to 2011-10-28
Sao Paulo	SPB	Brazil	23.5920S	47.4320W	85	
Saorge	SAOF	Provence-Cote d'Azur,France	43.9863N	7.5553E	600	
Sao Salvador	SSV2	Goias,Brazil	12.8507S	48.2143W	315	From 2008-01-01
Sao Teotonio	PTEO	Portugal	37.5456N	8.7242W	119	From 1993-08-03
Sa-pa	SPV	Vietnam	22.3383N	103.8352E	1150	From 1961-01-01
Sapanca-Adapazari	SPNC	Turkey	40.6860N	30.3083E	190	From 2008-06-27
Saphane-Kutahya	SHAP	Turkey	39.0230N	29.2220E	1056	From 2012-05-09
Sappes Rodopi	SPP1	Greece	41.0225N	25.7014E	128	From 2011-07-01
Sapporo	SAP	Ishikari,Japan	43.0583N	141.3320E	17	
Saqqara	SQR	Egypt	29.8813N	31.1959E	110	
Sarab	ISRB	Iran	37.8250N	47.6667E	1950	From 1995-08-01
Sarahart	SRRS	Armenia	40.8683N	44.2217E	1675	
Sarajevo	SAR	Bosnia and Herzegovina	43.8733N	18.4283E	725	
Sarakhs	SRMB	Iran	36.5200N	61.1500E	0	
Saraland	347A	Mississippi,U.S.A.	31.4017N	88.5412W	40	From 2011-03-19 to 2012-12-15
Saramarca	PP04	Peru	14.4855S	75.0915W	750	
Sarande	SRN	Albania	39.8800N	20.0005E	60	
Sarany	PR7R	Permskiy Kray	58.5518N	58.7598E	440	From 2013-11-26

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Saraoutou	SANVU	Vanuatu,Vanuatu	15.4472S	167.2032E	56	From 2011-11-01
Sarapat	SATK	Armenia	40.9433N	44.0500E	2120	
Sarat Abidah	SRAT	Saudi Arabia	18.0390N	43.1620E	2300	From 1990-06-13
Saratoga Golf Course	SGC	California,U.S.A.	37.2827N	122.0500W	198	
Saratov	SARR	Saratovskaya Oblast',Russia	51.3885N	45.2865E	161	From 2005-11-15
Sarbogard	PKS8	Hungary	46.8787N	18.6765E	135	
Sarcpa Lake, Nunavut	SRLN	Northwest Territories,Canada	68.5513N	83.3238W	261	From 2005-08-21
SarD1z-Kayseri	SARI	Turkey	38.4072N	36.4182E	1673	From 2007-08-03
Sareghieh	HSRG	Iran	35.2418N	48.2787E	2544	From 2013-01-01
Sareki	SRKG	Georgia,Georgia	42.3241N	43.3529E	485	From 2013-03-22
Sarfartoq 1, Greenland	SA1G	Greenland	66.1910N	50.6900W	1100	
Sarfartoq 2, Greenland	SA2G	Greenland	66.3270N	51.2860W	1100	
Sarfartoq 3, Greenland	SA3G	Greenland	66.4399N	51.8603W	1150	
Sarfartoq 4, Greenland	SA4G	Greenland	66.5910N	52.4280W	900	
Sargodha	SARP	Pakistan	31.9215N	72.6718E	183	
Saricakaya, Eskisehir	SRCK	Turkey	40.0417N	30.6259E	331	From 2013-03-15
Sarigan	SARN	Mariana Islands	16.7002N	145.7795E	451	
Sarkisla-SIVAS	CUSAR	Turkey	39.4185N	36.2444E	1458	From 2010-07-07
Sarkoy-Tekirdag	RKY	Turkey	40.6875N	27.1777E	687	From 2005-05-24
Sarmi	SMPI	Irian Jaya,Indonesia	1.9900S	138.7100E	0	From 2007-12-01
Sarnen Kantonsschule	SARK	Switzerland	46.8914N	8.2432E	471	From 2012-05-30
Sarria	EXSA	Spain	42.7760N	7.4190W	504	
Sarsar	RSA	Morocco	34.8770N	5.8280W	609	
Sart'ichala	SRCG	Georgia,Georgia	41.7000N	45.1600E	700	
Sart Tilman	BSTI	Belgium	50.5835N	5.5667E	226	From 1985-10-04
Sarutani	SRT	Nara,Japan	34.1761N	135.7450E	440	From 1960-05-01
Sarvestan	ISRV	Iran	29.3817N	53.1133E	2688	From 2002-10-01
Sasagawa	JNS	Niigata,Japan	37.8183N	139.3172E	145	
Saskatoon	SAS	Saskatchewan,Canada	52.1333N	106.6330W	515	From 1915-01-01 to 1960-04-01
Sassa´´´´´´	SASS	Italy	43.2580N	10.6898E	438	From 2010-05-17
Sassocorvaro	SSCV	Italy	43.7798N	12.4975E	331	From 2013-12-04
Sasso d'Italia	SSO	Italy	43.2930N	13.4200E	302	From 1987-05-01
Sassorosso	SARO	Italy	44.1848N	10.4015E	1030	From 1992-05-01 to 2009-09-30
Sasyr	SSYS	Sakha,Russia	65.1580N	147.0750E	580	From 1986-09-01
Satara	STA	Maharashtra,India	17.6950N	74.0000E	665	
Satriano di Lucania, Italy	STN3	Italy	40.5300N	15.6515E	832	From 2006-02-24
Saturna Island	SNB	British Columbia,Canada	48.7750N	123.1710W	405	From 1981-01-28
Saturnia	TSUT	Italy	42.6878N	11.4961E	249	From 2009-09-20
Saty	SATY	Kazakhstan	43.0590N	78.4060E	1400	From 1988-09-01
Saucer Basin, Paradox Valley	PV12	Colorado,U.S.A.	38.3175N	108.8023W	2092	
Sault Sainte Marie	SL-ON	Ontario,Canada	46.6372N	84.3506W	335	
Sault Ste Marie	SL-	Ontario,Canada	46.6372N	84.3506W	335	
Sault Ste Marie	E46A	Michigan,U.S.A.	46.3665N	84.3062W	269	From 2012-11-12 to 2013-11-26
Sault St. Marie	D46A	Ontario,Canada	46.8910N	84.0357W	353	From 2012-10-23
Saumlaki	SAUI	Moluccas,Indonesia	7.9826S	131.2998E	110	From 2007-08-24
Saumlaki	SLKI	Moluccas,Indonesia	7.9817S	131.2980E		
Saurbar	ISAU	Iceland	63.9900N	20.4150W	74	From 1989-12-12
Sauteurs	GRHS	Grenada	12.2239N	61.6413W	66	
Savage	C24A	Montana,U.S.A.	47.5302N	104.4252W	713	From 2008-09-18 to 2011-01-13
Savage River	SVR	Tasmania,Australia	41.4667S	145.2170E		
Savane Anatole	SVN	Martinique,France	14.8417N	61.1678W	510	
Savannah	SAV	Tasmania,Australia	41.7208S	147.1890E	180	From 1961-01-01
Savannah River	SRPD	South Carolina,U.S.A.	33.1550N	81.7125W	31	
Savannah River	SRPW	South Carolina,U.S.A.	33.2022N	81.5781W	77	From 1976-08-06
Savannah River	SRPN	South Carolina,U.S.A.	33.3289N	81.5889W	94	
Savo	SVO	Solomon Islands,Papua New Guinea	9.1500S	159.8150E	87	From 1980-06-01 to 1983-01-27
Savonnieres en Perthois	SAVF	Champagne-Ardenne	48.6152N	5.1241E	250	From 2014-12-16
Savoonga	SVGA	Alaska,U.S.A.	63.6950N	170.4800W	15	From 1977-08-18
Savoonga	SOV	Alaska,U.S.A.	63.6465N	170.4490W	198	From 1976-01-01 to 1983-01-01
Savuti	SVT1	Botswana	18.5820S	24.0720E	940	From 2001-01-01 to 2100-12-31
Sawahan	SJI	Jawa,Indonesia	7.7349S	111.7669E	723	
Sawahan-Nganjuk, JISNET	SNJI	Jawa,Indonesia	7.7808S	111.7591E	1341	From 2009-01-01
Sawauchi	SAH	Iwate,Japan	39.4033N	140.7720E		
Sawbill Land. Superior Nat. Forest USFS	C38A	Minnesota,U.S.A.	47.7171N	91.2732W	498	From 2010-09-18 to 2012-08-16
Sawmill	SWM	California,U.S.A.	34.7183N	118.5820W	1220	From 1966-03-07
Sawmill	SML	Alaska,U.S.A.	61.8082N	148.3330W	740	
Sawmill Road	JSMM	California,U.S.A.	37.2123N	122.1680W	262	From 1971-07-14
Sawyerville	MLAL	Alabama,U.S.A.	32.7055N	87.6936W	55	
Sayfiye	SAY	Turkey	40.1167N	29.3345E	850	From 1993-01-01
Sayler Ranch, Douglas	C27A	North Dakota,U.S.A.	47.7139N	101.5029W	602	From 2009-07-22 to 2011-06-11
Say'un	SYON	Yemen	15.9417N	48.7833E	0	
S.Benedetto Po	SBPO	Italy	45.0511N	10.9199E	10	From 2005-06-20
S Black Range	SBR	New South Wales,Australia	35.4250S	149.5330E	1265	From 1976-12-01
Scaffel	CSF	England,United Kingdom	54.4478N	3.2430W	540	
Scanlan Farm, Eyota	I38A	Minnesota,U.S.A.	44.0405N	92.3306W	390	From 2010-10-08 to 2012-09-08
Scarborough	SCB	Ontario,Canada	43.7167N	79.2333W	153	From 1962-05-23 to 1974-12-31
Scarperia	SEI	Italy	44.0544N	11.3564E	610	
SCE Magundon Plant	MAGC	California,U.S.A.	35.3616N	118.9228W	135	
Schaffhausen-Ebnat	SCHE	Switzerland	47.7117N	8.6526E	476	From 2001-06-12
Schaffhausen, Spital	SCHS	Switzerland	47.7115N	8.6365E	517	From 2011-05-01
Schaffner Ranch	SNR	California,U.S.A.	32.8618N	115.4370W	-29	From 1973-04-16
Scheelite	SCHCA	California,U.S.A.	37.3591N	118.6889W	2346	
Schefferville	SV3QB	Quebec,Canada	54.8108N	66.7500W	579	
Schefferville	SCH	Quebec,Canada	54.8167N	66.7833W	540	From 1962-07-11 to 1994-12-12
Schefferville	SCHQ	Quebec,Canada	54.8319N	66.8336W	501	From 1994-12-20
Schefferville	SV2	Quebec,Canada	54.8150N	66.7586W	594	From 1964-09-20 to 1965-07-23
Schefferville	SV2QB	Quebec,Canada	54.8150N	66.7586W	594	From 1964-09-20 to 1965-07-23
Schefferville	SV3	Quebec,Canada	54.8108N	66.7500W	579	
Scheggia e Pascelupo	ATSC	Italy	43.4240N	12.6864E	900	From 2012-11-29
Schela	SCHL	Romania	45.5007N	27.8302E	52	From 2014-04-08
Scherman	SRMY	New York,U.S.A.	41.2283N	73.0139W	165	
Schinveld	SCHN	Netherlands	50.9842N	6.0195E	57	
S. Chirico Raparo	SCHR	Italy	40.1992N	16.0759E	968	From 2003-12-05
Schitu	SCHRR	Romania	44.1345N	25.8292E	128	From 1997-09-29
Schlatt-Haslen	SGT04	Switzerland	47.3523N	9.3341E	1049	From 2012-01-15
Schlegeis	SCE	Austria	47.0386N	11.7103E	1737	
Schleitheim	SLE	Switzerland	47.7645N	8.4924E	648	From 1985-12-04
Schloss Buerresheim	BHE	Rheinland-Pfalz,Germany	50.3529N	7.1796E	290	From 2006-01-01
Schmiedefeld	SCHD	Thuringen,Germany	50.5351N	11.2121E	761	From 2008-05-20
SCHO	SCHO	Bolivia	19.1480S	64.6446W	2591	From 1994-05-30 to 1995-08-08
Schoenbrunner Berg-Wunsiedel	MSBB	Bayern,Germany	50.0314N	11.9728E	622	From 2001-04-10
Schoenfels	SCHF	Sachsen,Germany	50.6772N	12.4031E	435	From 2007-06-14
Schriesheim-Wilhelmstollen	SWS	Baden-Wurttemberg,Germany	49.4843N	8.7008E	223	From 2000-01-01
Schuetzenmatte (BS)	MATTE	Switzerland	47.5514N	7.5694E	-274	From 2006-10-01
Schurz	Q07A	Nevada,U.S.A.	38.9383N	118.8078W	1275	From 2006-02-27 to 2008-03-13
Schuyler	SU-VA	Virginia,U.S.A.	37.7597N	78.7267W	165	From 1965-06-19 to 1965-07-23
Schuyler	SU-	Virginia,U.S.A.	37.7597N	78.7267W	165	From 1965-06-19 to 1965-07-23
Schweizer	SWZ	Transvaal,South Africa	27.1823S	25.3317E	1342	
Schweizerhalle, Novartis	SSCN	Switzerland	47.5316N	7.6697E	268	From 2014-08-15
Scilla	SCLL	Sicily,Italy	38.2563N	15.7143E	81	
Scilla	MSCL	Italy	38.2320N	15.7900E	835	From 1993-12-01
Scipio Center	K57A	New York,U.S.A.	42.7313N	76.5163W	408	From 2013-08-21
Scobie Ranch	PSRM	California,U.S.A.	35.8578N	120.2800W	552	
Scoppito	RM06	Italy	42.3775N	13.2438E	848	From 2009-04-06 to 2009-09-01
Scorciavacca	ESCV	Sicily,Italy	37.7420N	14.8150E	615	From 1989-04-01
Scoresbysund	SCO	Greenland	70.4833N	21.9500W	69	
Scott Base	SBA	Victoria Land	77.8503S	166.7560E	38	From 1957-03-01
Scott Mountain	VSCM	Oregon,U.S.A.	43.3725N	123.0630W	1295	
Scott Ranch	STTC	California,U.S.A.	34.7885N	118.4620W	829	
Scott's Head	DSHT	Dominica	15.2136N	61.3737W	133	
Scotts Head	DSC	Dominica	15.2084N	61.3652W	50	
Scotts Peak	SPK	Tasmania,Australia	43.0383S	146.2750E	425	From 1972-07-01 to 2009-09-03
Scotty Lake	SCT	Alaska,U.S.A.	62.3192N	150.2970W	140	From 1971-08-01 to 1975-06-30
Scourie	RSC	Scotland,United Kingdom	58.3485N	5.1684W	60	From 1995-09-10
Scoval	KSK	Scotland,United Kingdom	57.4653N	6.7020W	250	From 1989-01-01
Scranton	Y58A	South Carolina,U.S.A.	33.9057N	79.6665W	19	From 2013-02-22
Scrawed	SRDI	Jawa,Indonesia	8.4794S	114.1420E	290	From 1991-01-01
S. Croce Del Sannio	SACR	Italy	41.3974N	14.7057E	859	From 2004-06-08
Scrubby Hill	SYZ	South Island,New Zealand	46.5369S	169.1388E	52	From 2006-05-05

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Scullys Gap (BLM), Evanston	M17A	Wyoming,U.S.A.	41.4729N	110.6664W	2101	From 2007-10-31 to 2009-10-17
Scuol-Clozza	SCUC	Switzerland	46.7980N	10.3038E	1230	From 1992-08-26
Scurtabo	SC2M	Italy	44.4043N	9.5343E	664	From 2005-01-01 to 2012-03-13
Scyscraper	SCRP	Turkey	40.8653N	28.9918E	39	From 2006-09-26
Seabrook	SBK	South Carolina,U.S.A.	32.5655N	80.1802W	-59	
Seaman Range	SRG	Nevada,U.S.A.	37.8822N	115.0680W	1645	
Searcy	SEAR	Arkansas,U.S.A.	35.2547N	91.7147W	0	
Sears Point	SNT	California,U.S.A.	38.1827N	122.4530W	88	
Seaside	B022	Oregon,U.S.A.	45.9546N	123.9310W	-201	
Seaside	F03A	Oregon,U.S.A.	45.9306N	123.5591W	324	From 2005-11-08 to 2008-11-12
Seaside SMO	SEAS	Oregon,U.S.A.	45.9974N	123.9258W	5	From 2004-01-30
Seatoun	STN	North Island,New Zealand	41.3250S	174.8319E	3	From 1931-01-01 to 1933-03-31
Seattle	STT	Washington,U.S.A.	47.4228N	122.3140W		From 1964-04-01 to 1976-04-30
Seattle	SEA	Washington,U.S.A.	47.6550N	122.3080W	30	From 1906-01-01
Sebes	SBE	Romania	45.5964N	23.6186E	0	
Seborga	NEGI	Italy	43.8477N	7.7038E	640	From 1996-03-01
Sechelt	SHB	British Columbia,Canada	49.5972N	123.8750W	1143	
Second Sedna Site,Hudson Bay	JOSN	Nunavut,Canada	63.1622N	91.5420W	295	From 2006-08-25 to 2010-08-02
Sedan	SDAN	South Australia,Australia	34.5093S	139.3374E	125	
Sede Social del IESS - Quito	IESS	Ecuador	0.1756S	78.4910W	2828	
Sedlovina	SDLR	Kamchatskaya Oblast',Russia	53.2781N	158.8840E	1235	
Sedrio (Vezzano sul Crostolo) - RE	RE04	Italy	44.6083N	10.5205E	255	From 2008-12-28 to 2009-02-12
See Canyon	PSEM	California,U.S.A.	35.2452N	120.7650W	201	
Seeley Lake	SLMT	Montana,U.S.A.	47.2418N	113.4935W	1701	
Sefi@18d Ru@18d	SEF	Iran	36.7583N	49.3833E	243	
Sefi@18d Ru@18d	SRI	Iran	36.7583N	49.3833E	243	
Sefidab	ISFB	Iran	34.3518N	52.2406E	948	From 1996-01-01
Sefro	SEF1	Italy	43.1468N	12.9476E	512	From 2011-03-21
Segre	SGR	Pays de la Loire,France	47.7094N	0.9230W	90	From 1973-01-01
Sehore	SEH	Madhya Pradesh,India	23.1667N	77.0833E		
Seigler Mountain	GSGM	California,U.S.A.	38.8667N	122.7100W		From 1974-07-02
Sejong Station	SEJ	South Shetland Islands	62.2208S	58.7528W	18	
Sekisonzan	SSZ	Nagano,Japan	36.3867N	138.5208E	1869	
Sela	SELA	Greece	38.2756N	21.8926E	611	From 2006-07-28
Selb-Vielitz	VIEL	Bayern,Germany	50.1856N	12.1028E	670	From 1996-03-19
Selden	P30A	Kansas,U.S.A.	39.5442N	100.2468W	788	From 2009-05-15 to 2011-04-03
Seldovia	XLV	Alaska,U.S.A.	59.4547N	151.7220W	380	From 1987-01-01
Seldovia	SLV	Alaska,U.S.A.	59.4713N	151.5810W	91	
Seligman	W14A	Arizona,U.S.A.	35.2127N	113.0834W	1756	From 2006-03-10 to 2008-10-20
Seligman	SG-	Arizona,U.S.A.	35.6408N	113.2608W	1676	From 1964-04-06 to 1965-10-04
Seligman	SG-AZ	Arizona,U.S.A.	35.6408N	113.2608W	1676	From 1964-04-06 to 1965-10-04
Sellapark	SLPK	England,United Kingdom	54.4336N	3.4885W	50	From 2004-07-01
Selova	SELS	Serbia	43.2195N	21.1190E	543	From 2002-05-21
Selva	ESEL	Balearic Islands,Spain	39.7682N	2.8943E	231	From 1988-07-01
Selvarotonda (Cittareale)	RM21	Italy	42.6278N	13.1416E	1454	From 2009-04-09 to 2010-03-03
Semalu	ESM	New Britain,Papua New Guinea	4.2770S	152.6860E	50	
Semarang	SMRI	Jawa,Indonesia	7.0492S	110.4407E	203	From 2006-11-01
Semdilli	SEMD	Turkey	37.3473N	44.5208E	1910	From 2005-09-28
Semeru Mts	SMR	Jawa,Indonesia	8.1000S	112.9000E		
Semigandzh	SGZ	Tajikistan	38.6500N	69.0000E	0	
Semipalatinsk	SEM	Kazakhstan	50.4080N	80.2500E	2100	From 1934-10-19
Semis' Anvil Peak	CEAP	Alaska,U.S.A.	52.0024N	179.5778E	244	
Semis' Cerberus	CERB	Alaska,U.S.A.	51.9314N	179.6297E	305	
Semisopochnoi Island	SSI	Alaska,U.S.A.	51.8924N	179.5880E	178	From 1970-10-17 to 1973-04-30
Semis' Perret Rge	CEPE	Alaska,U.S.A.	51.9658N	179.6492E	335	
Semis' Rag'd Top	CERAA	Alaska,U.S.A.	51.9070N	179.6846E	305	
Semis' Southwest	CESW	Alaska,U.S.A.	51.9010N	179.5633E	238	
Semis' Tuman	CETU	Alaska,U.S.A.	51.9661N	179.4942E	335	
Semkarok	SMKR	Kamchatskaya Oblast',Russia	56.5820N	161.4680E	898	From 2005-09-10
Semlyachik	SEL	Kamchatskaya Oblast',Russia	54.1167N	159.9833E		
Semnan-Aivanekay	SMAV	Iran	35.2873N	52.1541E	1000	From 2004-01-01 to 2004-09-01
Semponon	SEMI	Sumatera,Indonesia	2.4603N	98.3917E	1750	
SEND	SEND	Washington,U.S.A.	46.1935N	122.1854W	2100	
Sendai	SEN	Miyagi,Japan	38.2600N	140.9000E	38	
Seneca	SA-	Oregon,U.S.A.	44.1556N	118.6625W	1524	
Seneca	SA-OR	Oregon,U.S.A.	44.1556N	118.6625W	1524	
Seneca 1, Swea City	J36A	Iowa,U.S.A.	43.3292N	94.3395W	370	From 2010-10-07 to 2012-09-16
Seneffe	SNF	Belgium	50.5086N	4.2833E	108	From 1985-07-01
Senekal	SEK	Orange Free State,South Africa	28.3233S	27.6250E	1486	
Senerchia	SNR3	Italy	40.7357N	15.1927E	1009	
Senigallia	SENI	Italy	43.7052N	13.2331E	10	From 2006-07-27
Senkaya-Erzurum	SENK	Turkey	40.5614N	42.3505E	1939	From 2011-05-04
Sennhˆ…lsen	SGT00	Switzerland	47.4240N	9.3103E	525	From 2012-01-15
Sentinel	W32A	Oklahoma,U.S.A.	35.1238N	99.2458W	494	From 2009-10-28 to 2011-09-04
Senzan	SNZ	Hyogo,Japan	34.3530N	134.8410E	370	From 1972-01-22
Seogwipo	KSSGP	Republic of Korea	33.2587N	126.4994E	222	From 2001-11-21 to 2003-12-01
SEOHWA	SEHB	Republic of Korea	38.2686N	128.2525E	393	From 2009-01-01
Seongsanpo	KSSSP	Republic of Korea	33.3868N	126.8804E	18	From 2001-11-21
Seosan	KSSES	Republic of Korea	36.7893N	126.4531E	99	From 2000-12-19
Seoul	KSSEO	Republic of Korea	37.4879N	126.9188E	33	From 1998-10-29
Seoul	SEO	Republic of Korea	37.5667N	126.9670E	86	From 1945-01-01
Separation Peak, Rawlins	M21A	Wyoming,U.S.A.	41.6067N	107.3635W	2275	From 2007-11-01 to 2009-10-09
Sept-Chutes	SFA	Quebec,Canada	47.1244N	70.8268W	230	From 1927-01-01
September Lobe	SEPW	Washington,U.S.A.	46.2002N	122.1906W	2116	
Sept Iles	SIC	Quebec,Canada	50.1720N	66.7380W	283	
Sequim	SQM	Washington,U.S.A.	48.0739N	123.0470W		
Serang	SBJI	Jawa,Indonesia	6.1200S	106.1300E	0	
Serdivan-Sakarya	SAUV	Turkey	40.7401N	30.3271E	165	From 2012-02-07
Sereflikochisar	SERE	Turkey	38.9463N	33.5640E	1216	From 2010-06-29
Seremai	QARU	Tanzania,United Republic of Tanzania	3.5238S	35.6123E	1367	
Sergokala	SGKR	Dagestan,Russia	42.4597N	47.6583E	500	
Sergoula	SERG	Greece	38.4133N	22.0566E	477	From 1998-07-01
Serifos	SERI	Greece	37.1609N	24.4853E	460	From 2010-07-28
Sermide	SERM	Italy	45.0100N	11.2958E	-128	From 2012-01-19
Sermur	SER	Limousin,France	45.9775N	2.4300E	710	
Serra Branca	SRBC	Azores,Portugal	39.0366N	28.0409W	300	
Serracapriola	FG2	Italy	41.8048N	15.1609E	241	
Serra de Santa Barbara	PSBA	Azores,Portugal	38.7673N	27.3247W	453	
Serra di Burano	ATBU	Italy	43.4757N	12.5483E	1000	From 2009-10-27
Serra do Cume	PSCM	Azores,Portugal	38.7007N	27.1173W	360	
Serra do Cume	SCUM	Azores,Portugal	38.6975N	27.1201W	316	From 1983-03-01
Serra do Socorro	PSSC	Portugal	39.0153N	9.2336W	375	
Serra Facao	SFA1	Goias,Brazil	17.9707S	47.7018W	766	From 2008-01-01
Serrai	SRS	Greece	41.1172N	23.5922E	400	From 1981-01-01
Serra La Nave	ESLN	Sicily,Italy	37.6934N	14.9744E	1787	From 2005-07-13
Serra Nova Dourada	SNDB	Mato Grosso,Brazil	11.9742S	51.2943W	252	From 2013-11-05
Serra Pizzuta	ESPC	Sicily,Italy	37.6917N	15.0273E	1600	From 1985-12-01
Serra Sant'Abbondio	MSSB	Italy	43.4947N	12.7828E	421	From 2010-12-28
Serretta (MS)	T0914	Italy	44.0796N	10.2065E	334	From 2013-06-22
Sersale	SERS	Italy	39.0359N	16.6886E	1221	From 2005-10-19
Serting	ST16	Xizang Zizhiqu,China	31.8880N	89.4984E	4505	From 1998-07-24 to 1998-09-24
Serui, Papua	SRPI	Papua New Guinea	1.8700S	136.2400E	87	From 2008-12-01
Serv Nac Est Terr	SNET	El Salvador	13.6868N	89.2315W	775	
Sesta Godano	STDG	Italy	44.2939N	9.6758E	252	From 2013-06-26 to 2013-07-14
Sete Cidades	SETA	Azores,Portugal	37.8131N	25.7513W	675	From 1990-05-22
Sete Cidades	PSET	Azores,Portugal	37.8233N	25.7208W	475	From 2001-06-16
Setif	SET	Algeria	36.2000N	5.4000E	1000	From 1958-09-01
Settepolesini, Bondeno (FE)	CAS03	Italy	44.8997N	11.4659E	5	From 2012-05-23
Setubal (Portugal)	SETU	Portugal	38.5024N	8.9579W	118	From 2008-07-02
Sevastopol	SEVA	Ukraine	44.5300N	33.6800E	136	From 2012-10-12
Sevastopol'	SEV	Ukraine	44.5450N	33.6680E	42	
Sevenhill	SNL	South Australia,Australia	33.8872S	138.6390E	480	From 1967-01-01 to 1971-12-31
Sevenoaks	TSA1	England,United Kingdom	51.2426N	0.1561E	177	From 1989-01-01
Seven Oaks Dam	SVD	California,U.S.A.	34.1064N	117.0982W	574	
Severo-Baykalsk	SVBS	Buryatiya,Russia	55.6400N	109.3500E	490	
Severo-Kuril'sk	SKR	Sakhalinskaya Oblast',Russia	50.6830N	156.1170E	22	
Severomuysk	SVKR	Buryatiya,Russia	56.1169N	113.5589E	850	
Severo-Muysk	SVK	Buryatiya,Russia	56.1839N	113.5189E	850	
Severouralsk	SVUR	Sverdlovskaya Oblast',Russia	60.1985N	59.9778E	-139	From 2007-06-09

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Sevier Lake (BLM), Delta	Q14A	Utah,U.S.A.	38.9882N	113.2769W	1464	From 2007-06-11 to 2008-11-17
Sevierville	V52A	Tennessee,U.S.A.	35.8417N	83.5959W	328	From 2012-05-14
Sevinc	SGT	Turkey	36.9438N	31.5008E	205	From 1975-04-01
Sewanee	SWTN	Tennessee,U.S.A.	35.3002N	86.0763W	305	
Sewanee	SWET	Tennessee,U.S.A.	35.2163N	85.9320W	581	
Seward	SEW	Alaska,U.S.A.	60.1037N	149.4490W	55	From 1972-08-22
Seward Park	SPW	Washington,U.S.A.	47.5535N	122.2471W	8	From 1969-09-17 to 2009-04-08
Seward Park 2	SP2	Washington,U.S.A.	47.5563N	122.2492W	30	
Sexfontaines	SFTF	Champagne-Ardenne,France	48.2050N	5.0383E	399	
Seychelles	SEYC	Seychelles	4.0833S	55.0833E		From 1913-01-01 to 1942-12-31
Seydisehir	SYT	Turkey	37.3047N	31.8750E	1530	From 1976-01-01 to 1981-01-31
Seydisehir-KONYA	SEYD	Turkey	37.4057N	31.8380E	1160	From 2014-02-04
Seymchan	SEY	Magadanskaya Oblast',Russia	62.9328N	152.3822E	218	
Seymchan - Ulakhan Temp Deploy	SS42	Magadanskaya Oblast',Russia	62.6551N	152.3267E	233	From 2007-08-01 to 2007-09-01
Seymchan - Ulakhan Temp Deploy	SS41	Magadanskaya Oblast',Russia	62.7508N	152.5096E	205	From 2007-08-01 to 2007-09-01
Seymchan - Ulakhan Temp Deploy	SS40	Magadanskaya Oblast',Russia	62.8247N	152.2816E	214	From 2007-08-01 to 2007-09-01
Seymour	SM-TX	Texas,U.S.A.	33.6822N	99.1897W	396	From 1961-12-06 to 1961-12-20
Seymour	SM-	Texas,U.S.A.	33.6822N	99.1897W	396	From 1961-12-06 to 1961-12-20
Sfakia	SFK1	Crete,Greece	35.2555N	24.1726E	768	From 2011-09-15
S. Felix do Tocantins -TO	RET13	Tocantins,Brazil	10.1824S	46.6419W	364	From 2011-09-12
Sfinta Ana	AAR	Romania	46.1333N	25.8950E	1101	
Sfrayin	ISFR	Iran	37.0538N	58.0000E	2448	From 1997-03-01
Sgolgore (BA)	SG1	Italy	40.8400N	16.6790E	523	From 1988-07-01
Sgonico	FSGC	Italy	45.7100N	13.7640E	272	From 2012-07-01
Sha@18hru@18d	SHD	Iran	36.4333N	54.9417E	1500	From 1975-03-01
Shaartuz	SHTS	Tajikistan	37.2667N	68.1333E		
Shabestar	ISHB	Iran	38.2833N	45.6170E	2150	From 1995-08-01
Shabla	SHAB	Bulgaria	43.5389N	28.6057E	43	From 2012-11-20
Shadegan	SSHG	Iran	30.6575N	48.6411E	5	From 2010-08-11
Shahbuz	SBZ	Azerbaijan	39.3970N	45.5530E	1202	From 2011-11-30
Shahmirzad	ISHM	Iran	35.8067N	53.2922E	2500	From 1999-05-01
Shahrakht	SHRT	Iran	33.6460N	60.2910E	837	From 2008-09-13
Shahran	ISHR	Iran	35.8061N	51.2889E	1470	From 1996-01-01
Shahrood	SHRO	Iran	35.9900N	56.0100E	1264	From 2009-02-04
Shai Hills	SHGH	Ghana	5.9283N	0.0419W	84	From 1987-01-01
Shakotan	JSK	Shiribeshi,Japan	43.3525N	140.4757E	10	
Shalim	SHAO	Oman	18.0228N	55.6251E	292	From 2004-12-01
Shalkode	SHLS	Kazakhstan	43.1570N	79.4620E	1368	From 2004-06-02
Shamm	SHME	United Arab Emirates	26.0490N	56.1413E	524	
Shamokin	SH-PA	Pennsylvania,U.S.A.	41.0136N	76.9136W	183	From 1962-10-11 to 1962-10-27
Shamokin	SH-	Pennsylvania,U.S.A.	41.0136N	76.9136W	183	From 1962-10-11 to 1962-10-27
Shamrock	SK-TX	Texas,U.S.A.	35.0828N	100.3639W	671	From 1963-08-19 to 1964-03-06
Shamrock	SK-	Texas,U.S.A.	35.0828N	100.3639W	671	From 1963-08-19 to 1964-03-06
Shandon	PSHM	California,U.S.A.	35.5908N	120.4150W	390	
Shandon	TCHL	California,U.S.A.	35.6881N	120.4009W	431	From 2013-06-19
Shangus	SHN2	Pakistan	35.7210N	74.8220E	1702	From 2012-01-01
SHANNON INFRASONIC ARRAY REFERENCE POINT	I47AU	Western Australia,Australia	34.5976S	116.3567E	167	From 2006-02-01
Shannon Station	SNGZ	North Island,New Zealand	38.7815S	177.3399E	488	From 2009-06-30
Sharaf	SRFA	Saudi Arabia	28.9300N	35.1880E	725	From 1986-01-01 to 1995-12-31
Sharaf	SHRF	Saudi Arabia	28.9460N	35.1090E	1000	
Sharm el Sheik	SHRM	Egypt	27.8925N	34.1322E	284	
Sharm el Sheik	SH2	Egypt	27.8817N	34.0833E	185	From 2010-06-30
Sharon Grove	T47A	Kentucky,U.S.A.	36.9881N	87.1055W	217	From 2011-11-19
Sharon Springs	Q28A	Kansas,U.S.A.	39.0623N	101.8309W	1133	From 2009-05-10 to 2011-03-23
Sharp Cattle Ranch, Aspermont	Z31A	Texas,U.S.A.	33.3183N	100.1435W	547	From 2009-03-17 to 2011-02-08
Sharpitor	SHT	England,United Kingdom	50.5106N	4.0356W	0	
Shasta Dam	SHS	California,U.S.A.	40.6950N	122.3880W	312	From 1942-01-01 to 1964-05-30
Shatzhatmas	SHAR	Stavropol'skiy Kray,Russia	43.7428N	42.6686E	2070	
Shawbak	SHWJ	Jordan	30.3830N	35.5000E	1734	From 1989-11-01
Shawinigan Falls	SHF	Quebec,Canada	46.5517N	72.7633W	60	From 1928-01-01 to 1965-12-08
Shawnee State University	SSUO	Ohio,U.S.A.	38.7290N	82.9890W	162	
Shawville	LDSQ	Quebec,Canada	45.7127N	76.3469W	257	From 2013-05-17
Sheep	HSPM	California,U.S.A.	37.1152N	121.5160W	850	
Sheep Canyon	SCU	Utah,U.S.A.	39.4873N	110.2420W		From 1962-01-01 to 1977-03-31
Sheep Creek Facility	SCF	Alaska,U.S.A.	61.9947N	150.0390W	67	From 1971-08-01 to 1975-06-30
Sheep Creek Mountain	SCM	Alaska,U.S.A.	61.8333N	147.3280W	1020	
Sheep Hole Mountains	SHH	California,U.S.A.	34.1877N	115.6540W	1122	
Sheep Mountain BLM, Rosette	M14A	Utah,U.S.A.	41.5030N	113.3471W	1318	From 2007-02-10 to 2008-08-21
Sheeppen Canyon, Tinnie	Z24A	New Mexico,U.S.A.	33.3298N	105.3649W	1863	From 2008-05-15 to 2010-03-06
Sheep Range	SHPR	Nevada,U.S.A.	36.5055N	115.1602W	1590	
Sheep Range	SHRG	Nevada,U.S.A.	36.5048N	115.1559W	1641	From 1979-05-22 to 2002-10-10
Sheffield	SFF	Tasmania,Australia	41.3375S	146.3080E	213	From 1969-08-04 to 2009-09-03
Sheffield	M42A	Illinois,U.S.A.	41.4546N	89.7581W	212	From 2011-07-30
Sheikh Budin	SBDP	Pakistan	32.2997N	70.8072E	1356	
Sheil Bridge	KSB	Scotland,United Kingdom	57.2098N	5.4230W	70	From 1983-01-01
Sheki	SEKA	Azerbaijan	41.2090N	47.1980E	847	From 2003-08-01
Shelburne	I52A	Ontario,Canada	44.0680N	80.1770W	505	From 2012-11-17
Shelby Farms Park, Memphis	W44A	Tennessee,U.S.A.	35.1395N	89.8161W	101	From 2011-05-12 to 2013-03-13
Shelby Forest	SFTN	Tennessee,U.S.A.	35.3575N	90.0187W	-23	From 1979-08-02
Shelbyville	R49A	Kentucky,U.S.A.	38.2916N	85.1714W	251	From 2012-06-06
Shell Creek	SCE1	Oklahoma,U.S.A.	35.4390N	97.8140W	408	
Shelter house	SHTH	Turkey	40.8767N	28.9729E	5	From 2006-09-27
Shemya	SQ-IS	Alaska,U.S.A.	52.7269N	174.1092E	61	
Shemya	SMY	Alaska,U.S.A.	52.7295N	174.0994E	58	
Shemya	SHY	Alaska,U.S.A.	52.7333N	174.1330E		
Shemya Is, Alaska	SHEM	Alaska	52.7295N	174.0994E	55	From 2015-01-15
Shenavan	KMLS	Armenia	40.8767N	44.2633E	1844	
Shenavan	SHNS	Armenia	40.8600N	44.2200E	1400	
Shenyang	SNY	Liaoning,China	41.8278N	123.5780E	54	From 1983-08-01
Shenyang	FEN	Liaoning,China	41.7833N	123.4000E	25	
Sherbrooke	SBQ	Quebec,Canada	45.3783N	71.9263W	265	From 1980-08-12
Sheridan	O47A	Indiana,U.S.A.	40.2361N	86.1742W	278	From 2011-10-21
Sheriff Wilson	SWNG	California,U.S.A.	37.6382N	118.8920W	2188	From 1979-11-11
Sherman	F64A	Maine,U.S.A.	45.8633N	68.3496W	179	From 2013-09-23
Sherman Crater--Mount Baker	SCW	Washington,U.S.A.	48.7675N	121.8170W	2990	From 1975-03-31 to 1976-10-01
Sherman Glacier	SGAM	Alaska,U.S.A.	60.5012N	145.2070W	424	From 1976-08-16
Sherman Twp	I48A	Michigan,U.S.A.	44.1873N	83.7022W	192	From 2012-11-06
Sherwin Lakes	MSLM	California,U.S.A.	37.6167N	118.9566W	2479	
Sherwood	L47A	Michigan,U.S.A.	41.9756N	85.2021W	282	From 2012-07-23
Sherwood Peak	KSPM	California,U.S.A.	39.5173N	123.5010W	869	
Sheshan	ZKW	Jiangsu,China	31.1833N	121.4330E	7	
Sheshan	ZSC*	Jiangsu,China	31.0967N	121.1860E	90	
Sheshan	SSE	Jiangsu,China	31.0956N	121.1867E	15	From 1976-11-15
Sheshan	ZSC	Jiangsu,China	31.0956N	121.1870E	10	From 1976-11-15
Shezaf	SZAF	Israel	30.9000N	34.5500E	290	
Shibata	SBH	Niigata,Japan	37.9656N	139.4538E	140	
Shiboa	JSB	Tochigi,Japan	36.9683N	139.9200E	460	
Shichikawa	SKW	Wakayama,Japan	33.5880N	135.6900E	120	From 1958-04-01
Shide	SHID	England,United Kingdom	50.6833N	1.2833W		
Shidnytsya	SHIU	Ukraine	49.2234N	23.3621E	580	From 2006-11-14
Shidzhatmaz	SHA1	Stavropol'skiy Kray,Russia	43.7380N	42.6571E	2120	From 2009-06-13
Shields Creek	CLAP	British Columbia,Canada	53.3217N	132.4110W	60	
Shikano	SNTD	Tottori,Japan	35.4105N	134.0204E	200	
Shikinejimakita	JSKK	Tokyo,Japan	34.3347N	139.2107E	39	From 2012-07-01
Shikotan	SKT*	Sakhalinskaya Oblast',Russia	43.8667N	146.8000E		
Shikotan	SHO	Sakhalinskaya Oblast',Russia	43.8700N	146.8300E	55	
Shiliguri	SLGI	India	26.7000N	88.4167E		
Shilin	ESL	Taiwan region	23.8140N	121.4330E	178	
Shillong	SHL	Meghalaya,India	25.5667N	91.8833E	1600	From 1953-01-01
Shillong	SHIO	Meghalaya,India	25.5667N	91.8833E	1600	
Shimam	JSH	Hiyama,Japan	42.6430N	140.0448E	72	
ShimaneMisato	JGT2	Shimane,Japan	35.0635N	132.5070E	150	From 2011-03-01
Shimbara	SHV	Nagasaki,Japan	32.7706N	130.3631E	50	
Shimizu	SHM	Kochi,Japan	32.7750N	132.9580E	2	
Shimob	JYN	Yamanashi,Japan	35.4977N	138.5443E	775	
Shimobe	SBJ	Yamanashi,Japan	35.4157N	138.4834E	202	
Shimogamo	SGMN	Shizuoka,Japan	34.6472N	138.8550E	49	
Shimohsa	SMJ	Chiba,Japan	35.7934N	140.0238E	-2277	
Shimokamo	SMK	Shizuoka,Japan	34.6458N	138.8544E	20	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Shimokoshiki	JSJ	Kagoshima,Japan	31.6780N	129.7158E	240	
Shimonomoto	SMJD	Gifu,Japan	36.3941N	137.3864E	960	
Shimonoseki	SHN1	Yamaguchi,Japan	33.9450N	130.9280E	18	From 1984-01-01
Shimonoseki 2	SHNJ	Yamaguchi,Japan	34.1250N	131.1080E	20	
Shimonoseki 3	SHN	Yamaguchi,Japan	33.9533N	130.9400E	46	
Shimotochinai	K03	Iwate,Japan	39.3583N	141.5775E	289	
Shimoyama	SYJ	Aichi,Japan	35.0365N	137.3155E	303	
Shinagawa	SIN	Tokyo,Japan	35.6167N	139.7500E		
Shindian Village	TNSD	Taiwan region	24.5400N	120.9210E	210	From 2001-04-10
Shingle Point	SPY	Yukon Territory,Canada	68.9220N	137.2600W	35	From 1982-10-05
Shinhua	CHN3	Taiwan region	23.0760N	120.3650E	50	
Shinhuzimiza	SHZE	Nagano,Japan	36.3992N	138.5358E	2256	
Shinkiari	SIP	Pakistan	34.4667N	73.2992E	1448	
Shinkiari	SHI1	Pakistan	34.4830N	73.3060E	1544	From 1973-08-23
Shinpukuji	SPJN	Gifu,Japan	35.4537N	136.7930E	65	
Shinshiroyabe	JSSY	Aichi,Japan	34.9142N	137.5073E	67	From 2011-11-01
Shinshu-shinm'i	SSJ	Nagano,Japan	36.5715N	138.0400E	580	From 1967-08-01 to 1973-03-31
Shiocton	H42A	Wisconsin,U.S.A.	44.5091N	88.5311W	244	From 2011-09-30 to 2013-06-13
Shiono misaki	SHJ	Wakayama,Japan	33.4483N	135.7630E	75	
Ship Mountains	SPM	California,U.S.A.	34.4720N	115.4030W	915	
Shira	SHRR	Krasnoyarskiy Kray,Russia	54.4928N	90.1614E	388	From 2000-06-26
Shirahama	SHRD	Kagoshima,Japan	31.6100N	130.6750E	160	
Shirakawa	SHR	Fukushima,Japan	37.1290N	140.2192E	355	
Shirakawa	SRJD	Gifu,Japan	35.5777N	136.4160E	380	
Shirakawa 2	SHRJ	Fukushima,Japan	37.0767N	140.2330E	395	From 1990-04-24
Shiraki	SHK	Hiroshima,Japan	34.5322N	132.6780E	285	From 1965-07-21
Shirataka	JYS	Yamagata,Japan	38.2210N	140.0655E	300	
Shiraz	SHI	Iran	29.6418N	52.5133E	1595	From 1963-05-10
Shiriuchi	JSR	Hiyama,Japan	41.5295N	140.4178E	55	
Shiroyama	SRY	Kanagawa,Japan	35.6083N	139.2740E	254	From 1967-06-01
Shirttail Gulch	BSGM	California,U.S.A.	36.4138N	121.2540W	192	From 1969-06-18
Shirttail Gulch	SHG	California,U.S.A.	36.4138N	121.2540W	192	From 1969-06-18
Shirvan	ISHV	Iran	37.5347N	57.7027E	1925	From 1997-03-01
Shishaldin	SSBA	Alaska,U.S.A.	54.7727N	164.1245W	766	
Shishaldin North	SSLN	Alaska,U.S.A.	54.8118N	163.9959W	637	
Shishaldin South	SSLS	Alaska,U.S.A.	54.7120N	163.9988W	817	
Shishaldin West	SSLW	Alaska,U.S.A.	54.7718N	164.1214W	628	
Shiura	JSI	Aomori,Japan	41.0547N	140.3967E	40	
Shiura 2	JSI2	Aomori,Japan	41.0575N	140.4112E	60	
Shiveluch	SVLR	Kamchatskaya Oblast',Russia	56.5769N	161.2200E	840	
Shiveluch-Kupola	KPLS	Kamchatskaya Oblast',Russia	56.6100N	161.3000E	1650	From 1986-01-01 to 1993-04-30
Shivlakha	SHIV	Gujarat,India	23.2918N	70.3390E	67	From 2012-01-01
Shivta	SVTA	Israel	30.9300N	34.6200E	370	
Shizugawa	SZG	Kyoto,Japan	34.8882N	135.8319E	70	
Shizuoka	SHZ	Shizuoka,Japan	34.9733N	138.4070E	14	
Shizuoka 2	SHZJ	Shizuoka,Japan	35.0278N	138.4227E	40	From 1989-03-25 to 1993-03-24
Shizuoka 3	SHZ3	Shizuoka,Japan	35.0658N	138.2100E	710	From 1993-03-29
Shkodra	SDA	Albania	42.0519N	19.4986E	10	
Shoal	SZ-	Nevada,U.S.A.	39.2036N	118.3800W	1606	From 1963-01-05 to 1963-02-02
Shoal	SZ-NV	Nevada,U.S.A.	39.2036N	118.3800W	1606	From 1963-01-05 to 1963-02-02
Shoalbay	SHOA	Andaman Islands,India	11.5179N	92.4420E	15	From 2012-01-01
Shoe Peg Valley	SPVI	Idaho,U.S.A.	44.5842N	116.7710W	1100	From 1991-09-01
Shokan	L60A	New York,U.S.A.	41.9890N	74.2226W	388	From 2013-09-04
Shonto	U17A	Arizona,U.S.A.	36.5996N	110.6624W	1976	From 2007-06-08 to 2009-02-09
Shooshtar-Gavsavar	SHGR	Iran	32.1083N	48.8013E	150	From 2002-04-01
Shoreham	I60A	Vermont,U.S.A.	43.8440N	73.2916W	101	From 2013-09-20
Shoreline CC	SCCW	Washington,U.S.A.	47.7496N	122.3611W	0	
Shori	SHO1	Pakistan	35.5000N	73.3660E	990	From 2007-09-01
Short Canyon	WSCM	California,U.S.A.	35.7043N	117.8860W	881	
Short Mountain	SMTN	Tennessee,U.S.A.	36.3820N	83.1820W	768	
Shosan	JSS	Rumoi,Japan	44.3997N	141.8530E	110	
Shoshone NF, Cody	H18A	Wyoming,U.S.A.	44.6769N	109.6641W	2221	From 2008-08-15 to 2010-06-08
Shoshone Peak	SSP	Nevada,U.S.A.	36.9253N	116.2194W	2095	From 1973-10-10 to 2002-10-10
Shoshone, Tecopa	SHOC	California,U.S.A.	35.8995N	116.2753W	451	From 1996-10-14
Shoshoni	J20A	Wyoming,U.S.A.	43.3531N	108.0842W	1500	From 2008-08-09 to 2010-09-11
Shoshtar	ISHO	Iran	32.2891N	48.0223E	0	From 1998-01-01
Shoufeng	ENLB	Taiwan region	23.9036N	121.6017E	71	From 2002-12-02
Shoufeng Township	ESF	Taiwan region	23.8710N	121.5070E	28	From 1998-08-07
Shoushan	TWM1	Taiwan region	22.8233N	120.4226E	340	From 1977-03-28
Shoushan	TWM	Taiwan region	22.6417N	120.2510E	70	From 1972-09-09
Showa-Shinzan	SHOH	Iburi,Japan	42.5352N	140.8617E	192	
Shuangxi	TIPB	Taiwan region	24.9719N	121.8256E	393	From 2009-05-17
Shubertovo	SBRT	Kamchatskaya Oblast',Russia	55.9550N	162.0070E	34	From 1983-07-01 to 1983-09-01
Shui	SHUI	Tyva,Russia	50.8867N	90.3333E	1170	From 1964-08-16 to 1971-09-30
Shuksan-Mt. Baker Ski Area	SHUK	Washington,U.S.A.	48.8528N	121.6770W	1516	
Shullsburg	K41A	Wisconsin,U.S.A.	42.6071N	90.3046W	298	From 2011-06-20 to 2013-05-13
Shurtz Canyon	SZCU	Utah,U.S.A.	37.5954N	113.0875W	2026	From 2009-10-22
Shushi	SUSZ	Armenia	39.7650N	46.7530E	1250	From 1998-01-01
Shushtar	SHGO	Iran	32.1083N	48.8013E	50	From 2004-06-01
Shuyak Island	SYI	Alaska,U.S.A.	58.6100N	152.3910W	149	From 1990-08-27
Shuyak Island	SHU	Alaska,U.S.A.	58.6281N	152.3490W	34	From 1974-01-01
Shwairf	LSHF	Libya	29.9868N	14.2477E	429	
Siatista	SIA1	Greece	40.2573N	21.5535E	941	From 2011-04-01
Sibayak Dolok	SIBI	Sumatera,Indonesia	3.2408N	98.5044E	2050	From 1991-10-01
Sibenik	SEB	Croatia	43.7333N	15.9000E		
Sibinal	SBG	Guatemala	15.1320N	92.0535W	2860	From 1986-03-01
Sibiti River	MWSR	Tanzania,United Republic of Tanzania	3.8388S	34.6437E	1028	
Sibiu	SIBR	Romania	45.8099N	24.1758E	463	From 2007-11-07
Sibolga	SBSI	Sumatera,Indonesia	1.5500N	98.8900E	147	From 2005-01-01
Sibu	SBUM	Sarawak,Malaysia	2.4500N	112.2200E	30	From 2003-11-01
Sibulan	SNPH	Mindanao,Philippines	9.3430N	123.2360E	520	
Sicasica	SCS	Bolivia	17.2847S	67.8153W	3900	
Sicasica	SICA	Bolivia	17.2924S	67.7490W	4065	From 1994-05-30 to 1995-04-10
Sicignano	SGO	Italy	40.5604N	15.3074E	651	
Sida	SID	Iceland	63.7858N	18.0583W	26	
Sides Ranch, Smithwick	J26A	South Dakota,U.S.A.	43.3126N	103.0752W	993	From 2009-07-31 to 2011-06-01
Sidewinder Mine	SDW	California,U.S.A.	34.6092N	117.0740W	1184	From 1975-02-01
Sidi-Bou-Said	SBS	Tunisia	36.8700N	10.3500E	125	
Sidi Chahed	SICH	Morocco	34.1040N	5.3200W	229	
Sidi Gnaou	SGNT	Tunisia	33.6608N	9.8702E	90	
Sidi Yaiche	SYA	Tunisia	34.7418N	8.8070E	550	
Sidney	PGC	British Columbia,Canada	48.6500N	123.4510W	5	From 1978-03-18
Sidney Island	SILB	British Columbia,Canada	48.6020N	123.2815W	76	
Sidrap Palu	SPSI	Sulawesi,Indonesia	3.9646S	119.7691E	0	From 2007-12-01
Sid's House	HGSB	British Columbia,Canada	53.2557N	132.1048W	92	From 2012-11-17
Siegrist	RDS	Alaska,U.S.A.	64.8265N	148.1450W	510	From 1977-06-01
Siena	SIE	Italy	43.3200N	11.3122E	349	
Sierra Bellavista	BO02	O'Higgins	34.7925S	70.7815W	886	From 2014-01-16
Sierra Blanca Array Site 1	SB1	Texas,U.S.A.	31.2100N	105.4378W	1570	
Sierra Blanca Array Site 2	SB2	Texas,U.S.A.	31.2117N	105.2900W	1379	
Sierra Blanca Array Site 3	SB3	Texas,U.S.A.	31.0983N	105.2983W	1384	
Sierra Cabrera	ASCB	Spain	37.0393N	2.0057W	0	
Sierra de Lcar, Granada	E026	Spain	37.4952N	2.5945W	1086	From 2007-09-11 to 2009-06-25
Sierra de Lijar	ELIJ	Spain	36.9178N	5.3808W	870	
Sierra del Retn, Cadiz	E001	Spain	36.1742N	5.8392W	346	From 2007-06-28 to 2009-05-01
Sierra Elvira	ELVI	Spain	37.2505N	3.7023W	860	
Sierra Elvira	SELV	Spain	37.2383N	3.7277W	650	
Sierra Gorda, Loja, Granada	EGOR	Spain	37.1101N	4.1096W	1378	From 2011-02-01
Sierra La Laguna	SLBS	Baja California,Mexico	23.6858N	109.9443W	825	
Sierra Loja	ELOJ	Spain	37.1477N	4.1526W	998	From 1993-11-29
Sierra Morrones	ASMO	Spain	37.3580N	3.7430W	1170	
Sierra Prieta	DR14	Dominican Republic	18.6447N	70.0078W	0	
Sierra Ventana	VBA	Buenos Aires,Argentina	38.0539S	61.9756W	495	
Sierre	SIERE	Switzerland	46.3853N	7.4734E	2910	From 1974-09-10 to 2002-02-15
Siete Picos	DR15	Dominican Republic	18.7503N	70.1773W	800	
Siggri Mitillinis	SGR1	Greece	39.2114N	25.8553E	22	From 2011-01-30
Sigillo	A004	Italy	43.3304N	12.7364E	472	From 2011-02-08
Siglufjorour	ISIG	Iceland	66.1320N	18.9150W	10	From 1993-10-26
Sigmaringen-Wittberg	SGW	Baden-Wurttemberg,Germany	48.1068N	9.2150E	700	From 1994-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Signal de Mont	SMF	Bourgogne,France	46.6453N	3.8411E	459	From 1976-05-01
Signal Hill	SIH	Trinidad and Tobago	11.1722N	60.7708W	80	
Signal Mountain	W50A	Tennessee,U.S.A.	35.2002N	85.3119W	587	From 2012-04-17
Signy Island	SGY	South Orkney Islands	60.7101S	45.5976W	30	From 1974-02-01
SIGRI	SIGR	Greece	39.2114N	25.8553E	83	From 2007-12-19
Sigues	YSIG	Spain	42.6396N	0.9946W	776	From 2010-07-19
Siheung-si	SHHB	Republic of Korea	37.3488N	126.7039E	39	From 2011-12-26
Siikajoki	OBF3	Finland	64.8000N	24.7000E	25	From 2013-08-01
Siirt_Merkez	SRTM	Turkey	37.9911N	41.9223E	1145	From 2011-10-29
Siirt/Pervari-Merkez	PERV	Turkey	37.9461N	42.5417E	1377	From 2014-11-28
Sikka	SKK	Sakhalinskaya Oblast',Russia	49.2333N	143.1170E	2	
SILCHAR	SILR	Assam,India	24.7813N	92.8028E	18	From 2011-05-01
Sile	SILT	Turkey	41.1530N	29.6430E	100	From 2002-01-01
Silifke	SLF	Turkey	36.2386N	33.6852E	120	From 1995-04-06
Silifke-Mersin	SLFK	Turkey	36.3925N	33.9465E	55	From 2011-09-01
Silifke-Mersin	SILI	Turkey	36.3670N	33.9239E	122	From 2011-07-01
Silistra	SILAM	Bulgaria	44.1046N	27.2665E	84	From 2012-11-20
Silivri	SLVT	Turkey	41.2300N	28.2100E	180	From 2002-01-01
Sillano (LU)	T0915	Italy	44.2217N	10.3023E	721	From 2013-06-22
Silvan-Diyarbakir	SVAN	Turkey	38.1511N	41.1984E	655	From 2009-12-12
Silva Ranch	BSLM	California,U.S.A.	36.7755N	121.3490W	155	From 1975-07-16
Silver Beach Elementary School	SBES	Washington,U.S.A.	48.7683N	122.4150W		
Silver City	SVM	New Mexico,U.S.A.	32.7787N	108.2967W	1932	From 1977-12-01 to 1999-08-25
Silver City	SIY	Yukon Territory,Canada	61.0317N	138.4070W	785	From 1979-12-05 to 1980-03-27
Silver Creek	CSCM	California,U.S.A.	37.2852N	121.7720W	128	From 1967-06-10
Silver Creek	SVC	California,U.S.A.	37.2852N	121.7725W	128	From 1967-06-10
Silver Gate	SGM	Montana,U.S.A.	45.0075N	109.9890W	2285	From 1973-01-01 to 2004-03-05
Silver Peak	SIL	California,U.S.A.	34.3478N	116.8270W	1730	
Silver Peak Range	SVP	Nevada,U.S.A.	37.7148N	117.8013W	2621	
Silverton	SLR	Transvaal,South Africa	25.7350S	28.2817E	1348	From 1981-07-20
Silvia	SILC	Colombia	2.6880N	76.3397W	3150	From 1990-01-01
Simarbalatuk	SIMI	Sumatera,Indonesia	2.6889N	98.9469E	1681	
Simav-Kutahya	SIMA	Turkey	39.0833N	28.9825E	984	From 2011-07-26
Simav-Kutahya	SMAA	Turkey	39.1005N	28.9805E	796	From 2012-05-08
Simferopol'	SIM	Ukraine	44.9490N	34.1160E	275	
Simia	SMIA	Greece	38.8791N	23.2090E	448	From 2008-10-16
Simia	VSI	Greece	38.8793N	23.2090E	448	From 1982-11-01
Simiane la Rotonde	SMRF	Provence-Cote d'Azur,France	43.9760N	5.5750E	654	
Simi Peak	SI2	California,U.S.A.	34.2039N	118.7990W	700	From 1973-06-01
Simla	SMI	Himachal Pradesh,India	31.1000N	77.1833E		
Simla	SMLA	Himachal Pradesh,India	31.1283N	77.1667E		
Simmler	SMMC	California,U.S.A.	35.3142N	119.9958W	599	From 1999-11-09
Simojovel	SMJM	Chiapas,Mexico	17.1340N	92.7150W		
Simon	SIMR	Nevada,U.S.A.	38.4750N	117.7675W	1899	
Simplonpass	SIMPL	Switzerland	46.2396N	8.0196E	1930	From 2009-10-28
Simpson Lake	SMPN	Northwest Territories,Canada	68.2107N	126.6540W	226	From 2010-07-17
Simpson Lake, Nunavut	SMLN	Nunavut,Canada	68.5936N	91.9364W	237	From 2010-07-30
Simushir	SIU	Sakhalinskaya Oblast',Russia	46.8500N	151.7800E	15	
Sinabang, Aceh	SNSI	Sumatera,Indonesia	2.4089N	96.3267E	14	From 2008-12-01
Sinaia	SNX	Romania	45.3553N	25.5155E	1470	From 1989-07-01
Sinanoba-Istanbul	SINB	Turkey	40.9993N	28.5395E	59	From 2011-01-01
Sinclairville	L54A	New York,U.S.A.	42.2345N	79.3162W	432	From 2013-03-26
Sindeldorf	SIND	Baden-Wurttemberg,Germany	49.3488N	9.6057E	330	From 1998-01-01
Sindhuli	SINN	Nepal	27.2107N	85.9088E	465	From 2001-10-19 to 2002-11-03
Sindorf	BA05	Nordrhein-Westfalen,Germany	50.9175N	6.6637E	72	From 2006-10-01
Sinegor'e	SNGR	Magadanskaya Oblast',Russia	62.0640N	150.4000E	300	From 2003-04-26
Sinegor'e	SNGS	Magadanskaya Oblast',Russia	62.0854N	150.5251E	400	From 2003-05-04
Sinegor'e	SNE	Magadanskaya Oblast',Russia	62.0900N	150.5200E	400	
Singah	SINI	Jawa,Indonesia	7.0144S	107.5000E	1000	
Singapore	SING	Singapore	1.3050N	103.8500E		
Singaraja	SRBI	Bali,Indonesia	8.0848S	115.2127E	0	From 2007-12-01
Singen-Schiener Berg	SISB	Baden-Wurttemberg,Germany	47.6864N	8.9643E	490	From 2003-01-01
Singida	SINGT	Tanzania,United Republic of Tanzania	4.8083S	34.7380E	1506	
SINGM	SINGM	Malawi	14.8083S	34.7380E	1506	
Singureni	SGRR	Romania	44.2228N	25.9743E	115	From 2011-09-21
Sinj	SNJ	Croatia	43.7333N	16.6500E		
Sinn el Kaddab	ASKD	Egypt	23.6597N	32.3847E	258	
Sinonel	SLG	Guatemala	14.7078N	91.6355W	1220	From 1979-11-01 to 1987-12-31
Sinop	SNOP	Turkey	42.0195N	35.2068E	180	From 2010-08-16
Sinop	SINP	Turkey	41.9823N	35.0956E	93	From 2012-03-23
Sinop/Boyabat-Salar	BOYA	Turkey	41.5330N	34.6806E	443	From 2014-11-25
SINOP_Merkez	SINO	Turkey	42.0184N	35.2019E	203	
Sintang	STKI	Kalimantan,Indonesia	0.0656N	111.4772E	88	From 2005-01-01
Sint Eustatius	STAT	Netherlands Antilles	17.4950N	62.9787W	50	
Sint Maarten	MRN	Netherlands Antilles	18.0120N	63.0600W	20	From 1976-10-01 to 1999-08-25
Sinyu	KV12	Kagoshima,Japan	31.8886N	130.8714E	890	
Sion	SIS	Switzerland	46.2667N	7.3667E	500	From 1932-01-01 to 1941-12-31
Sion-Mayennets	SIOM	Switzerland	46.2290N	7.3619E	495	From 2011-01-01
Sion-Ophtalmol	SIOO	Switzerland	46.2328N	7.3832E	495	From 1997-05-14
Sion-Valere	SIOV	Switzerland	46.2351N	7.3642E	560	From 2006-08-29
Sioux Lookout	SOO	Ontario,Canada	50.0762N	91.8880W	358	From 1987-06-07
Sioux Lookout	SXO	Ontario,Canada	50.0917N	91.9983W	420	From 1982-09-27 to 1986-09-24
Sioux Lookout	SOLO	Ontario,Canada	50.0213N	92.0812W	373	From 1988-10-24
Siparia	SIPA	Trinidad and Tobago	10.1429N	61.5060W	60	
Sipayare	SIPV	Venezuela	10.1827N	70.9322W	154	
Siquisique	SIQV	Venezuela	10.6490N	69.8080W	440	From 2002-05-30
Siracusa	HSRS	Sicily,Italy	37.0930N	15.2220E	100	From 1994-05-01
Siria	SIR	Venezuela	10.5092N	66.5092W	1050	From 1974-01-01
Siria	SIRR	Romania	46.2675N	21.6597E	480	
Sirnak	SIRT	Turkey	37.5011N	42.4392E	1038	From 2005-06-22
S¨–rnak	SIRN	Turkey	37.4962N	42.4130E	968	From 2008-11-03
Sirolo	MSIR	Italy	43.5402N	13.6100E	361	From 2007-10-02
Sirt	LSRT	Libya	31.0812N	16.6582E	95	
Sisak	SISC	Croatia	45.4710N	16.3720E	100	
Sisimiut, Greenland	SISG	Greenland	66.9366N	53.6430W	0	
Sisters	GRSS	Grenada	12.2985N	61.6123W	20	
Site Antares, Toulon	ASEAF	Provence-Cote d'Azur,France	42.7945N	6.1635E	-2470	From 2010-11-01
Siteia	SIT2	Crete,Greece	35.2059N	26.1070E	2	From 2011-09-01
Sitia Lasithi	STIA	Crete,Greece	35.2020N	26.0909E	89	From 2006-12-01
Sitka	SIT	Alaska,U.S.A.	57.0567N	135.3262W	25	From 1940-01-01
Sitkalidak Island	SKD	Alaska,U.S.A.	57.1642N	153.0800W	135	From 1977-08-11
Sitkinak Island	SII	Alaska,U.S.A.	56.5600N	154.1820W	500	From 1975-10-01
Sittwe	SIMRM	Myanmar	20.1332N	92.8852E	15	
Siu Lam	HKSL	Hong Kong,China	22.3647N	114.0145E	100	From 1997-04-23
Sivas	SIVA	Crete,Greece	35.0175N	24.8100E	95	
Sivas	SVST	Turkey	36.9361N	36.9528E	1640	From 1992-01-01
Sivrice-ELAZID	SVRC	Turkey	38.3784N	39.3063E	1680	From 2007-04-27
Sivrigoynuk	SGKT	Turkey	40.5733N	32.0561E	1890	From 1992-01-01
SIVRIHISAR	AUSIV	Turkey	39.4396N	31.5397E	1111	From 2010-02-09
Sivrihisar-ESKISEHIR	SVRH	Turkey	39.4469N	31.5230E	1000	From 2007-12-27
Six Diamond Ranch, Ranyesford	D17A	Montana,U.S.A.	47.1523N	110.6873W	1535	From 2007-10-13 to 2009-09-11
Sixes	K01A	Oregon,U.S.A.	42.8088N	124.4692W	175	From 2005-12-20 to 2007-11-30
Sixmile	SXM	Montana,U.S.A.	46.1492N	111.2080W	1993	
Sixmile Butte	SMBI	Idaho,U.S.A.	43.5022N	113.2680W	1736	From 1992-01-01
Six Mile Mountain	SMMS	South Carolina,U.S.A.	34.8325N	82.8042W	468	
Sixt	OGSI	Rhone-Alpes,France	46.0665N	6.7540E	750	
Sixty Eight Flow	SELF	Costa Rica	10.4712N	84.7322W	500	
Siya@14za@14n	SIZA	Azerbaijan	41.0760N	48.8990E	984	From 2003-08-01
Sjenica	SJES	Serbia	43.2613N	19.9734E	1181	From 2004-03-26
Sjulsmark	SJUU	Sweden	65.5080N	21.6055E	100	From 2000-08-30
Skadanscina	SKDS	Slovenia	45.5464N	14.0143E	552	From 2006-04-12
Skaggs, Pawnee	P43A	Illinois,U.S.A.	39.6409N	89.5213W	176	From 2011-08-16
Skaggs Springs	SKG	California,U.S.A.	38.7020N	123.0130W	282	From 1975-01-22
Skaggs Springs	GSSM	California,U.S.A.	38.7020N	123.0130W	282	From 1975-01-22
Skagit Valley Community College ANSS SMO	SVOH	Washington,U.S.A.	48.2892N	122.6332W	22	From 2001-09-14
Skagway	SKAG	Alaska,U.S.A.	59.4601N	135.3290W	174	
Skagway School	SKGA	Alaska,U.S.A.	59.4650N	135.3098W	0	
Skalna	SKC	Czech Republic	50.1698N	12.3611E	455	From 1994-04-19
Skalnate-Pleso	SPC	Slovakia	49.1889N	20.2450E	1772	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Skalstugan	SKA	Sweden	63.5800N	12.2800E	580	
Skaneateles	SKN	New York,U.S.A.	42.9915N	76.4672W	226	From 1974-11-01 to 1975-12-31
Skardu	SKR1	Pakistan	35.3030N	75.6400E	2251	From 2009-09-20
Skarslia	SKAR	Norway	60.6808N	8.3044E	798	From 2013-03-21
Skazka	SKZ	Khanty-Mansi Autonomous Okrug,Russia	61.4833N	72.5500E	91	
Skein Mesa, Paradox Valley	PV18	Colorado,U.S.A.	38.2462N	108.9090W	1999	
Skiathos	SKIA	Greece	39.1665N	23.4661E	325	From 2008-06-25
Skidaway Island, Savannah	257A	Georgia,U.S.A.	31.9746N	81.0261W	9	From 2012-03-16
Skidegate	SKB	British Columbia,Canada	53.2478N	131.9960W	10	From 1982-08-23
Ski Hill Lift	SKLY	New York,U.S.A.	43.9603N	74.1753W		From 1983-10-01 to 1986-10-31
Skikda	SKDA	Algeria	36.7850N	6.8539E	0	
Skilak	SKL	Alaska,U.S.A.	60.5143N	150.2150W	660	From 1971-09-09 to 1984-12-31
Skilak Lake	SLKM	Alaska,U.S.A.	60.5078N	150.2210W	655	From 1984-08-11
Skildingahˆ‡lshraun	ISKI	Iceland	65.8698N	17.0270W	316	From 2008-11-20
Skiros Island	SKY	Greece	38.8778N	24.5500E	260	From 1997-01-01
Skopelos	VSK	Greece	39.1106N	23.6934E	374	From 1982-10-01
Skopelos Island	SKO1	Greece	39.1233N	23.7287E	10	From 2010-08-01
Skopje	SKO	FYR Macedonia	41.9721N	21.4396E	346	From 1957-01-01
Skordalos	SKOR	Crete,Greece	35.4120N	23.9280E	306	
Skrokkalda	ISKR	Iceland	64.5600N	18.3860W	858	From 1996-10-02
Skvira	NE55	Ukraine	49.7160N	29.6560E	235	
Skwentna	SKT	Alaska,U.S.A.	61.9803N	151.5300W	564	
Skylar, Fairfield	R45A	Illinois,U.S.A.	38.2926N	88.2812W	143	From 2011-11-13
Skyros Island	SKY1	Greece	38.9045N	24.5646E	78	From 2010-10-01
Slack Wire Ranch, Winifred	C19A	Montana,U.S.A.	47.7343N	109.0489W	966	From 2008-08-22 to 2010-06-04
Slait	SLAT	Sudan	15.8520N	32.6840E	414	From 2003-11-01
Slandsville	SVS	South Carolina,U.S.A.	32.9683N	80.2482W	3	From 1976-03-31
Slate Mountain	STM	Nevada,U.S.A.	39.1140N	118.2000W	2020	From 1972-01-13 to 1975-07-31
Slate Mountain	ASMM	California,U.S.A.	38.8233N	120.6830W	1214	
Sleeping Mountain	SMN	Nevada,U.S.A.	37.1433N	116.7670W	1341	From 1971-01-01 to 1973-12-31
Sleepy Eye	SE-	Minnesota,U.S.A.	44.4142N	94.6653W	244	From 1962-01-24 to 1963-06-19
Sleepy Eye	SE-MN	Minnesota,U.S.A.	44.4142N	94.6653W	244	From 1962-01-24 to 1963-06-19
Slenfeh	SLNF	Syria	35.5954N	36.2228E	1520	From 1994-12-01
Slick	SIO	Oklahoma,U.S.A.	35.7463N	96.3071W	323	From 1978-07-12
Slidell	546A	Louisiana,U.S.A.	30.2330N	89.7191W	0	From 2011-03-16 to 2012-12-12
Slide Mountain	KSMM	California,U.S.A.	40.1858N	124.1750W	991	
Slitere, Latvia	SLIT	Latvia	57.6287N	22.2905E	13	From 2006-10-25
Slobozia Conachi	SLCR	Romania	45.5897N	27.7703E	85	From 2013-09-28
Slough House Road	ASRM	California,U.S.A.	38.4977N	121.2048W	52	
Slysaalda	ISLY	Iceland	63.8240N	19.1173W	633	From 2010-12-17
S.Marcello (AN)	AD05	Italy	43.5457N	13.1822E	216	From 2010-03-30
S.Maria delle Mole (Ciampino, Roma)	SAMA	Italy	41.7805N	12.5923E	119	From 2009-06-09
S. M. di Licodia	ESML	Sicily,Italy	37.6180N	14.8770E	360	From 1989-04-01
Smeltzer Mountain	SMSC	South Carolina,U.S.A.	34.9308N	82.9710W	498	From 1977-04-19
Smimou	SOIM	Morocco	31.1690N	9.6170W	900	
Smir	SMRM	Morocco	35.6850N	5.3870W	50	
Smith Brothers Farm, Spring Hill	V48A	Tennessee,U.S.A.	35.7400N	86.8219W	278	From 2011-12-11
Smithers	SI-	British Columbia,Canada	54.7883N	127.0714W	579	From 1965-10-25 to 1966-10-14
Smithers	SI-BC	British Columbia,Canada	54.7883N	127.0714W	579	From 1965-10-25 to 1966-10-14
Smith Mountain	PSMM	California,U.S.A.	36.0697N	120.5950W	988	From 1975-09-24
Smith Ranch, Marlow	X34A	Oklahoma,U.S.A.	34.6010N	97.8326W	364	From 2009-11-05 to 2011-09-05
Smjorgil	ISMJ	Iceland	63.6759N	19.6578W	211	From 2010-12-17
Smolenice	SMOL	Slovakia	48.5139N	17.4287E	400	From 1987-01-01
Smothers Creek Ranch, Hallettsville	636A	Texas,U.S.A.	29.4810N	97.0570W	90	From 2010-01-26 to 2011-11-09
Smrekonice	SMRK	Kosovo	42.8730N	20.9378E	634	From 2008-07-06
Smyrna	SYR	Washington,U.S.A.	46.8630N	119.6180W	268	From 1969-03-01
Snabyli	ISNB	Iceland	63.7360N	18.6310W	245	From 1993-02-10
Snake Pit, Albuquerque Seismic Lab	TASL	New Mexico,U.S.A.	34.9454N	106.4565W	1838	From 2012-04-24 to 2012-08-30
Snake Ranch	SRF	New Mexico,U.S.A.	34.2033N	107.0900W	1768	From 1969-01-01 to 1969-06-30
Snap Lake	SNPN	Northwest Territories,Canada	63.5178N	110.9077W	458	
Snartemo	SNART	Norway	58.3387N	7.2097E	160	From 2003-09-01
Snider Mountain Ranch	SRNB	New Brunswick,Canada	45.8324N	65.6355W	213	From 2013-09-07
Snively Ranch	SNIWA	Washington,U.S.A.	46.4642N	119.6600W	312	
Snort	SRTC	California,U.S.A.	35.6918N	117.7490W	698	
Snowbank Mountain	SBID	Idaho,U.S.A.	44.4240N	116.3140W	2520	
Snow Cap Mountain	KSCM	Oregon,U.S.A.	42.3440N	124.1650W	1280	
Snow College	SNO	Utah,U.S.A.	39.3143N	111.5380W	2446	
Snowflake	SF-AZ	Arizona,U.S.A.	34.4386N	110.5144W	1981	From 1961-12-03 to 1962-05-03
Snowflake	X18A	Arizona,U.S.A.	34.5293N	109.9501W	1751	From 2007-04-12 to 2010-05-28
Snowflake	SF-	Arizona,U.S.A.	34.4386N	110.5144W	1981	From 1961-12-03 to 1962-05-03
Snow King Mountain	SNOW	Wyoming,U.S.A.	43.4625N	110.7550W	2390	From 1986-01-01
Snowmass	SMCO	Colorado,U.S.A.	39.1776N	106.9739W	3435	
Snow Mountain	GSNM	California,U.S.A.	38.9405N	123.1920W	870	From 1975-06-20
Snowy Mountains Grammar School, Jindabyne	AUSMG	New South Wales,Australia	36.4200S	148.6100E	951	From 2013-03-14
Snyder	130A	Texas,U.S.A.	32.5961N	100.9652W	676	From 2009-03-12 to 2011-02-09
Snyder Ridge, Maysville	Q56A	West Virginia,U.S.A.	39.0410N	79.1871W	430	From 2013-05-23
Soap Creek Ranch, Albany	H03A	Oregon,U.S.A.	44.6765N	123.2923W	214	From 2005-11-10 to 2008-01-24
Soboth	SOKA	Austria	46.6780N	15.0327E	1008	From 2007-05-01
Sobradinho	SOB	Bahia,Brazil	9.2888S	41.1694W	416	From 1978-09-27
Sobradinho	SOB4	Bahia,Brazil	9.3425S	41.4842W	440	From 1979-10-01
Sobradinho	SOB1	Bahia,Brazil	9.2089S	40.8947W	424	From 1980-04-01
Sobradinho	SOB3	Bahia,Brazil	9.7708S	41.2639W	434	From 1979-10-01
Sobradinho	SOB2	Bahia,Brazil	9.5684S	40.9611W	490	
Sobral	SBBR	Ceara,Brazil	3.7452S	40.2717W	110	From 2007-01-01
Soche	SOCH	Ecuador	0.6490N	77.4923W	2650	From 1994-07-01
Sochi	SOC	Krasnodarskiy Kray,Russia	43.5833N	39.7167E	192	
Socops	SOCV	Venezuela	8.2840N	70.8560W	335	From 2002-08-15
Socorro	Y22A	New Mexico,U.S.A.	33.9370N	106.9652W	1674	From 2008-04-09 to 2009-12-22
Socorro	SRM	New Mexico,U.S.A.	34.3419N	106.8990W	1522	From 1969-06-25 to 1970-06-30
Socorro	SNM	New Mexico,U.S.A.	34.0702N	106.9440W	1511	From 1962-07-01
Socorro	VAO3	Sao Paulo,Brazil	22.5770S	46.4400W	1370	
SOCORRO T	H06S1	Colima,Mexico	18.7347N	110.9575W	35	From 2005-11-29
SOCORRO T-PHASE SITE E1	H06E1	Colima,Mexico	18.7805N	110.9253W	316	From 2005-11-29
SOCORRO T-PHASE SITE N1	H06N1	Colima,Mexico	18.8616N	110.9861W	16	From 2005-11-29
Socotra	SOCY	Yemen	12.1870N	53.9874E	802	From 2009-01-22
Socrates Mine	GSMM	California,U.S.A.	38.7692N	122.7810W	1017	From 1975-07-18
Socs Landing, Pioneer	143A	Louisiana,U.S.A.	32.7032N	91.4036W	30	From 2011-02-18
Soda Butte	YPSB	Wyoming,U.S.A.	44.8840N	110.1510W	2072	
Sodankyla	SDF	Finland	67.4203N	26.3936E	277	From 1984-12-19 to 2000-06-15
Sodankyla@14	SOD	Finland	67.3712N	26.6291E	181	From 1987-07-28 to 1992-01-13
Sodankyla@14	SGF	Finland	67.4421N	26.5261E	180	
Soda Springs	K16A	Idaho,U.S.A.	42.8321N	111.5884W	1885	From 2007-07-22 to 2009-05-12
Soda Springs	SOS	California,U.S.A.	37.1695N	121.9318W	921	
Soda Springs	JSSM	California,U.S.A.	37.1695N	121.9318W	921	
Sodus	SONY	New York,U.S.A.	43.1922N	76.9647W	122	
Soe	SOEI	Timor,Indonesia	9.7553S	124.2672E	1047	From 2006-12-11
Soedalen	SOEG	Greenland	68.2033N	31.3770W	101	
Soengei Langka	SLS	Sumatera,Indonesia	5.4000S	105.2170E	240	
Sofiya	SOF	Bulgaria	42.6853N	23.3342E	540	
Sogindy	SGDS	Kazakhstan	43.4520N	74.6300E	940	From 2012-09-15
sogukcermik	SCER	Turkey	39.8613N	37.1286E	1428	From 2008-06-26
Sohna	SONA	Delhi,India	28.2500N	77.0833E		
SOHO	SOHO	Oman	24.1342N	56.5336E	100	
So. Illinois U.	EDIL	Illinois,U.S.A.	38.7838N	89.9878W	183	
Sokcho	KSSOC	Republic of Korea	38.2422N	128.5669E	17	From 2000-01-29 to 2004-12-22
Sokcho	KSSKC	Republic of Korea	38.2899N	128.5219E	56	From 2004-12-24
Sokhos	SOH	Greece	40.8217N	23.3539E	670	From 1981-01-01
Solana Beach	SLBC	California,U.S.A.	33.0010N	117.2690W	38	From 1981-01-01 to 1985-07-31
Solanea	SLBR	Paraiba,Brazil	6.7815S	35.6440W	210	From 2007-01-01
Solania	AR4	Costa Rica	10.3583N	84.9928W	600	
Solberg Farm, Malta	B20A	Montana,U.S.A.	48.4389N	108.0209W	827	From 2008-09-12 to 2010-07-18
Soldier Meadows	M07A	Nevada,U.S.A.	41.3884N	119.1711W	1400	From 2006-02-17 to 2008-04-15
Soldier's Delight Natural Environment Area	SDMD	Maryland,U.S.A.	39.4102N	76.8403W	212	
Soldiers Grove	J40A	Wisconsin,U.S.A.	43.3965N	90.7406W	353	From 2011-06-17 to 2013-06-06
Soledad Mission	BSMM	California,U.S.A.	36.3833N	121.4280W	939	
Solikamsk	SOKR	Permskiy Kray,Russia	59.5955N	56.7906E	-120	
Sollefteaa	SOLU	Sweden	63.2470N	17.2580E	100	From 2000-04-28
Solontsovaya	SOL	Irkutskaya Oblast',Russia	54.1000N	108.3000E		
Solothurn Schulhaus Brˆ…hl	SOLB	Switzerland	47.2068N	7.5171E	430	From 2011-11-21

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Solothurn, Zeughausgasse	SOLZ	Switzerland	47.2088N	7.5383E	445	From 2012-01-05
Solovky	SLVR	Arkhangel'skaya Oblast',Russia	65.0280N	35.7017E	15	From 2007-10-26
Solunto	SOLUN	Sicily,Italy	38.0920N	13.5330E	190	From 2004-05-12
Solvholt	ISOL	Iceland	63.9290N	20.9440W	30	From 1990-02-20
Sombrero	SWIP	Anguilla	18.5980N	63.4263W	15	
Sombrero	SOM	Magallanes,Chile	52.7808S	69.2422W	73	From 1964-12-22
Somerset	SMC	Colorado,U.S.A.	38.9333N	107.4580W	1905	From 1969-07-01
Somerset East	SOE	Cape Province,South Africa	32.7117S	25.5617E	820	
Somma	SMAR	Kamchatskaya Oblast',Russia	53.2631N	158.8011E	1950	
Somoto	SOMN	Nicaragua	13.4203N	86.6138W	1200	
Somplago	SMP	Italy	46.3400N	13.0583E		
Sondre	SFJ	Greenland	66.9967N	50.6152W	365	
Sonepat	SNP	Uttar Pradesh,India	28.9833N	77.0000E	220	
Songea	SONE	Tanzania,United Republic of Tanzania	10.6738S	35.6507E	1130	
Songino Array Beam Reference Point	SONM	Mongolia	47.8347N	106.3950E	1415	
Songino Array Site A0	SONA0	Mongolia	47.8347N	106.3950E	1415	
Songino Array Site A1	SONA1	Mongolia	47.8468N	106.4032E	1511	
Songino Array Site A2	SONA2	Mongolia	47.8507N	106.3986E	1508	
Songino Array Site A3	SONA3	Mongolia	47.8484N	106.4098E	1563	
Songino Array Site A4	SONA4	Mongolia	47.8400N	106.4043E	1461	
Songino Array Site B1	SONB1	Mongolia	47.8630N	106.4039E	1603	
Songino Array Site B3	SONB3	Mongolia	47.8341N	106.4147E	1537	
Songino Array Site B4	SONB4	Mongolia	47.8339N	106.3604E	1402	
Songino Array Site B5	SONB5	Mongolia	47.8539N	106.3694E	1417	
Songino Ar. Site	SONB2	Mongolia	47.8487N	106.4231E	1582	
SONGINO INFRASONIC ARRAY REFERENCE POINT	MN	Mongolia	47.8017N	106.4101E	1245	From 2008-01-14
Songkhla	SKLT	Thailand	7.1700N	100.6200E	14	From 2008-01-01
Songkhla	SNG	Thailand	7.1770N	100.6170E	4	From 1965-10-01
Songo	SONG	Mozambique	15.6033S	32.7783E	900	From 1985-11-01 to 2003-08-15
Songwoldong	KSSOD	Republic of Korea	37.5714N	126.9662E	68	From 2007-12-12
Son La	BMV	Vietnam	21.4542N	103.8533E	380	From 2009-01-01 to 2012-12-31
Son La	SLVN	Vietnam	21.3338N	103.9050E	700	
Sonneberg	SON	Thuringen,Germany	50.3782N	11.1925E	634	
Sonora	SOKY	Kentucky,U.S.A.	37.5260N	85.9650W	204	From 1985-01-01
Sonora	431A	Texas,U.S.A.	30.6824N	100.6079W	700	From 2009-02-14 to 2011-01-23
Sonora Basin	SBCZ	South Island,New Zealand	45.0906S	169.3113E	801	From 1987-01-31 to 1996-04-27
Sonoran Desert, Stanfield	115A	Arizona,U.S.A.	32.7006N	112.2279W	606	From 2006-03-21 to 2008-12-04
Sonseca Array BB	ESBB	Spain	39.6755N	3.9617W	724	
Sonseca Array Beam Reference Point	ESDC	Spain	39.6743N	3.9631W	753	
SONSECA Array Site 01	ES01	Spain	39.6703N	3.9475W	743	
SONSECA Array Site 02	ES02	Spain	39.6771N	3.9355W	734	
SONSECA Array Site 03	ES03	Spain	39.6663N	3.9334W	732	
SONSECA Array Site 04	ES04	Spain	39.6557N	3.9423W	740	
SONSECA Array Site 05	ES05	Spain	39.6624N	3.9590W	763	
SONSECA Array Site 06	ES06	Spain	39.6757N	3.9521W	745	
SONSECA Array Site 07	ES07	Spain	39.6873N	3.9519W	734	
SONSECA Array Site 08	ES08	Spain	39.6923N	3.9251W	721	
SONSECA Array Site 09	ES09	Spain	39.6781N	3.8996W	753	
SONSECA Array Site 10	ES10	Spain	39.6580N	3.9026W	758	
SONSECA Array Site 11	ES11	Spain	39.6487N	3.9200W	758	
SONSECA Array Site 12	ES12	Spain	39.6387N	3.9429W	761	
SONSECA Array Site 13	ES13	Spain	39.6501N	3.9660W	762	
SONSECA Array Site 14	ES14	Spain	39.6518N	3.9885W	779	
SONSECA Array Site 15	ES15	Spain	39.6642N	4.0004W	776	
SONSECA Array Site 16	ES16	Spain	39.6868N	3.9943W	775	
SONSECA Array Site 17	ES17	Spain	39.7004N	3.9728W	766	
SONSECA Array Site 18	ES18	Spain	39.7102N	3.9493W	750	
SONSECA Array Site 19	ES19	Spain	39.7006N	3.8991W	720	
Sonseca Array Site A	ESLA	Spain	39.6743N	3.9631W	752	From 1989-07-31
Sonseca Array Site B	ESLB	Spain	39.8415N	4.0172W	612	From 1991-06-01
Sonseca Array Site C	ESLC	Spain	39.7950N	3.8133W	687	
Sonseca Array Site D	ESLD	Spain	39.6099N	3.7843W	807	From 1991-06-01
Sonseca Array Site E	ESLE	Spain	39.5072N	3.9734W	801	From 1991-06-01
Sonseca Array Site F	ESLF	Spain	39.5957N	4.1701W	911	From 1991-06-01
Sonseca Array Site G	ESLG	Spain	39.7446N	4.1950W	830	From 1991-06-01
Sonsonate	SONS	El Salvador	13.7381N	89.7172W	302	
Sooke	SOKB	British Columbia,Canada	48.3947N	123.6731W	45	From 2008-03-17
Sooner Cattle Company, Foraker	T35A	Oklahoma,U.S.A.	36.9161N	96.5121W	401	From 2010-05-06 to 2012-03-06
Sopron	SOP	Hungary	47.6833N	16.5583E	260	
Sorel	SO-QB	Quebec,Canada	45.7550N	72.2550W	152	From 1962-07-06 to 1962-07-17
Sorel	SO-	Quebec,Canada	45.7550N	72.2550W	152	From 1962-07-06 to 1962-07-17
S.Oreste - Soratte	SRES	Italy	42.2371N	12.5101E	410	From 2013-05-22
Sornfelli, Faroe Islands	SOFL	Faeroe Islands	62.0689N	6.9658W	721	From 2007-11-01
Soroa	SOR	Cuba	22.7917N	83.0078W	206	
Soroako, Sulawesi	SKSI	Sulawesi,Indonesia	2.5283S	121.3350E	602	From 2008-01-01
Soroca	SORM	Moldova	48.1349N	28.3513E	98	From 2007-09-28
Sorokina	SRKR	Kamchatskaya Oblast',Russia	56.6540N	161.1680E	849	From 2005-09-19
Sorong	SIJI	Irian Jaya,Indonesia	0.8691S	131.2661E	193	From 2010-03-29
Sorong	SWI	Irian Jaya,Indonesia	0.8630S	131.2598E	0	
Soroni, Rhodes Isl.	RSO1	Greece	36.3632N	28.0015E	12	From 2012-08-01
Sorpetalsperre	SORT	Nordrhein-Westfalen,Germany	51.3497N	7.9714E	280	From 1999-01-01
Sort	CSOR	Spain	42.3756N	1.1339E	1227	
Sortino	SSY	Sicily,Italy	37.1539N	15.0719E	540	
Sos del Rey Catolico	YSOS	Spain	42.4554N	1.1470W	881	From 2010-05-01
Sospel	SBF	Provence-Cote d'Azur,France	43.8631N	7.4352E	847	From 1985-06-01
Sotra	SOTS	Norway	60.3500N	5.1100E	30	From 2002-01-01
Souberoche	SOU	Rhone-Alpes,France	44.6614N	5.6903E	960	
Soufli	SFL1	Greece	41.1899N	26.3042E	21	From 2011-10-01
Soufriere	PSDMA	Dominica	15.2350N	61.3570W	60	
Soufriere Village	DSVT	Dominica	15.2290N	61.3700W	5	
Soufriere Volcano	SVV	St Vincent,Saint Vincent and the Grenadines	13.3180N	61.2160W	243	From 1978-09-24
Souni	SZAC	Cyprus	34.7550N	32.8820E	512	From 1998-11-16
Source of Smith Creek	SOSW	Washington,U.S.A.	46.2440N	122.1370W	1270	
Sourdough	SDG	Alaska,U.S.A.	62.5270N	145.5430W	625	From 1986-01-01
Sourhope Farm	XSO	Scotland,United Kingdom	55.4925N	2.2511W	495	From 1983-10-19
South Baldy	SBM	New Mexico,U.S.A.	33.9752N	107.1810W	3230	
South Bangong	ST17A	Xizang Zizhiqu,China	31.9516N	89.3099E	4595	From 1998-07-24 to 1998-08-11
South Bangong Suture	ST21	Xizang Zizhiqu,China	32.2289N	89.1337E	4655	From 1998-07-24 to 1999-05-29
South Base Booster	BOOC	California,U.S.A.	34.8680N	117.9103W	704	
South Boqe	ST03	Xizang Zizhiqu,China	30.8469N	90.1919E	4796	From 1998-07-17 to 1998-08-19
South Creake	SCK	England,United Kingdom	52.8797N	0.7506E	61	
South Dennis	COD	Massachusetts,U.S.A.	41.6858N	70.1350W	-85	
South Deqen	ST00	Xizang Zizhiqu,China	30.5258N	90.1027E	4810	From 1998-07-17 to 1999-04-06
South Doima	ST26A	Xizang Zizhiqu,China	32.6977N	88.8670E	4833	From 1998-07-25 to 1999-06-05
Southeast Heping	ST23	Xizang Zizhiqu,China	32.4226N	89.1076E	4727	From 1998-07-24 to 1999-06-05
South End of Cholame Valley, Shandon	THIS	California,U.S.A.	35.7240N	120.2284W	643	From 2012-05-07
South Entrance	YPSE	Wyoming,U.S.A.	44.1363N	110.6667W	2073	
Southern Antelope Island	AIUT	Utah,U.S.A.	40.8558N	112.1750W	1334	From 1983-04-01 to 1990-05-09
Southern Antelope Island	SAIU	Utah,U.S.A.	40.8548N	112.1810W	1384	From 1990-05-10
Southern Illinois University	SIUC	Illinois,U.S.A.	37.7149N	89.2176W	137	From 1984-01-01
Southern Oregon Univeristy DOGAMI SMO	SOUA	Oregon,U.S.A.	42.1836N	122.6963W	634	From 2005-04-28
South Grapevine Mountains	SGV	California,U.S.A.	36.9806N	117.0327W	1571	From 1978-11-28 to 2002-10-10
South Heping	ST24	Xizang Zizhiqu,China	32.4800N	88.9841E	4905	From 1998-07-10 to 1999-06-05
South Ingalls	SIG	Colorado,U.S.A.	39.6878N	105.0650W		
South Jangngalda	ST33	Xizang Zizhiqu,China	33.3274N	88.8316E	5032	From 1998-07-10 to 1999-06-04
South Kanaga	AD6	Alaska,U.S.A.	51.7083N	177.2420W	137	From 1974-01-01 to 1992-02-01
South Karori	SNZO	North Island,New Zealand	41.3103S	174.7050E	-10	From 1975-12-01
South Lassen	LSLM	California,U.S.A.	40.4337N	121.5360W	1060	From 1976-11-12
South Mountain	SMW	Washington,U.S.A.	47.3195N	123.3420W	840	From 1975-03-24
South Mountain	SMNC	North Carolina,U.S.A.	35.5835N	81.6360W	722	
South Mountain, Millburn	N61A	New Jersey,U.S.A.	40.7519N	74.2969W	108	From 2013-09-05
South of Nakchu	SANG2	Xizang Zizhiqu,China	31.0216N	91.7003E	4715	From 1998-08-01 to 1998-10-06
South Palgon	ST09	Xizang Zizhiqu,China	31.4212N	90.0044E	4745	From 1997-07-19 to 1999-06-02
South Pangkog	ST14	Xizang Zizhiqu,China	31.7702N	89.7083E	4607	From 1998-07-20 to 1999-05-31
South Point	SPT	Hawaii,U.S.A.	18.9823N	155.6707W	250	From 1971-03-10
South Pole	SPA	Antarctica	89.9954S	115.0000E	2927	From 1957-01-01 to 2005-03-26
South Pole Quiet Zone Earth Science Obs.	QSPA	Antarctica	89.9279S	145.0000E	2657	
South Promontory Point	SPUT	Utah,U.S.A.	41.3086N	112.4492W	1634	
South Ridge	SGE	Fiji	17.5892S	177.9230E	1021	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
South Ridge	HSR	Washington,U.S.A.	46.1728N	122.1830W	1774	
South Serting	ST15A	Xizang Zizhiqu,China	31.8502N	89.5766E	4574	From 1998-07-25 to 1998-09-04
South Tanaga	AT2	Alaska,U.S.A.	51.6633N	177.9300W	99	From 1975-01-01 to 1976-10-31
South Tanaga	AK2	Alaska,U.S.A.	51.6633N	177.9300W	99	From 1976-10-01 to 1992-02-01
South Thanglha	ST32	Xizang Zizhiqu,China	33.2424N	88.8352E	4927	From 1997-07-13 to 1999-06-03
Southwest Bangong	ST18	Xizang Zizhiqu,China	31.9647N	89.2691E	4619	From 1998-07-24 to 1999-05-30
Southwest Bay	SWB	Vanuatu	16.5087S	167.4200E		
Southwest Doima	ST26	Xizang Zizhiqu,China	32.6611N	88.9156E	4849	From 1998-07-11 to 1998-08-19
Southwest Flank Mount Saint Helens	SWFL	Washington,U.S.A.	46.1887N	122.2020W	2268	From 2006-10-10
Southwest Heping	ST23A	Xizang Zizhiqu,China	32.4714N	89.0496E	4861	From 1998-07-26 to 1999-06-05
Southwest Rift	SWH	Hawaii,U.S.A.	19.4543N	155.6050W	4048	
South Whidbey SD ANSS-SMO	SWID	Washington,U.S.A.	48.0084N	122.4129W	62	From 2001-07-23
Soyaes	JSE	Soya,Japan	44.9588N	142.5842E	10	
Soyapango	SOYA	El Salvador	13.7010N	89.1520W	651	
Soyapango	UDBS	El Salvador	13.7250N	89.1580W	640	
Spaichingen-Kochelsberg	SPAK	Baden-Wurttemberg,Germany	48.1023N	8.7858E	990	From 1997-01-01
Spangler Hills	WSHM	California,U.S.A.	35.5996N	117.4926W	764	
Sparrevohn	SVW2	Alaska,U.S.A.	61.0973N	155.5809W	498	
Sparrevohn	SVW	Alaska,U.S.A.	61.1082N	155.6220W	762	From 1967-08-01 to 2004-10-14
Sparta	Z54A	Georgia,U.S.A.	33.2362N	82.8417W	134	From 2012-04-12
Sparta	SR-	Oregon,U.S.A.	44.9403N	117.4278W	1341	From 1963-03-19 to 1963-06-03
Sparta	SR-OR	Oregon,U.S.A.	44.9403N	117.4278W	1341	From 1963-03-19 to 1963-06-03
Spellman Lake, Hanley Falls	H34A	Minnesota,U.S.A.	44.6673N	95.7770W	329	From 2010-07-24 to 2012-06-06
Spence Gulch, Sunbeam	N20A	Colorado,U.S.A.	40.8338N	108.2626W	2192	From 2007-11-13 to 2010-06-10
Spence Mountain	VSP	Oregon,U.S.A.	42.3417N	121.9500W	1539	
Spencer City Hall	OK008	Oklahoma,U.S.A.	35.5071N	97.3838W	368	
Spencer Herefords Ranch, Brewster	L30A	Nebraska,U.S.A.	41.9492N	99.7196W	782	From 2009-09-07 to 2011-04-09
Speyside	TOSP	Trinidad and Tobago	11.2984N	60.5353W	10	From 2007-05-09
S.Piero in Campo Elba	CELB	Italy	42.7466N	10.2107E	741	From 2011-06-03
Spijk (Roodeschool)	SPY4	Netherlands	53.4098N	6.7838E	-119	From 2010-07-08
Spijk (Roodeschool)	SPY2	Netherlands	53.4098N	6.7838E	-59	From 2010-07-08
Spijk (Roodeschool)	SPY1	Netherlands	53.4098N	6.7838E	-29	From 2010-07-08
Spijk (Roodeschool)	SPY3	Netherlands	53.4098N	6.7838E	-89	From 2010-07-08
Spilker Farm, Colbert	C10A	Washington,U.S.A.	47.8192N	117.3077W	684	From 2006-09-06 to 2008-06-11
Spine 5 MSH Spider	SPN5	Washington,U.S.A.	46.1947N	122.1884W	2263	From 2007-06-18
Spinello di Santa Sofia (FC)	T0501	Italy	43.9472N	12.0102E	667	From 2011-05-25
Spinoso	SPIE	Italy	40.2271N	15.9887E	1200	
Spiridon Lake	SPL	Alaska,U.S.A.	57.7592N	153.7710W	600	From 1975-10-01
Spitak	SPIZ	Armenia	40.8250N	44.2700E	1590	
Spitak	SPZA	Armenia	40.8317N	44.2617E	1600	
Spitsbergen Array Beam Reference Point	SPITS	Svalbard,Norway	78.1777N	16.3700E	323	
Spitsbergen Array Site A0	SPA0	Svalbard,Norway	78.1777N	16.3700E	323	From 1992-11-01
Spitsbergen Array Site A1	SPA1	Svalbard,Norway	78.1797N	16.3755E	320	
Spitsbergen Array Site A2	SPA2	Svalbard,Norway	78.1759N	16.3766E	250	
Spitsbergen Array Site A3	SPA3	Svalbard,Norway	78.1773N	16.3588E	339	
Spitsbergen Array Site B1	SPB1	Svalbard,Norway	78.1796N	16.3906E	301	
Spitsbergen Array Site B2	SPB2	Svalbard,Norway	78.1742N	16.3846E	200	From 1992-11-01
Spitsbergen Array Site B3	SPB3	Svalbard,Norway	78.1737N	16.3584E	234	
Spitsbergen Array Site B4	SPB4	Svalbard,Norway	78.1789N	16.3482E	340	
Spitsbergen Array Site B5	SPB5	Svalbard,Norway	78.1823N	16.3683E	295	
Split Crater	SPCI	Idaho,U.S.A.	43.4500N	112.6370W	1520	From 1992-01-01
Split Rock	SPRM	New South Wales,Australia	30.5748S	150.6877E	456	
Spokane	SPO	Washington,U.S.A.	47.7300N	117.3420W	713	From 1909-01-01 to 1969-12-31
Spokane Nat. Inst. Occ. Safety SMO	SNIO	Washington,U.S.A.	47.6794N	117.4050W	584	
Spokane Schools, Ferris High School ANSS-SMO	SFER	Washington,U.S.A.	47.6194N	117.3665W	715	From 2001-08-09
Spokane Temp K2 (Swanson)	SHLY	Washington,U.S.A.	47.7084N	117.4160W	626	From 2001-11-18
Spotswood, Melbourne	MLBS	Victoria,Australia	37.8291S	144.8944E	8	From 2013-02-25
Spotsylvania Fire Department	SPFD	Virginia,U.S.A.	38.1353N	77.5211W	79	
Spotted Range	SPRG	Nevada,U.S.A.	36.6938N	115.8093W	1240	From 1979-05-28 to 2002-10-10
Springbok	SBO	Cape Province,South Africa	29.6698S	17.8789E	1055	From 1993-11-01 to 2004-05-01
Spring Butte	VSBM	Oregon,U.S.A.	43.5237N	121.3470W	1664	
Spring Creek Lake, Blk. Kettle Nat Grslnd	V31A	Oklahoma,U.S.A.	35.7739N	99.8425W	687	From 2009-04-08 to 2011-02-15
Springerville	SV-AZ	Arizona,U.S.A.	34.1756N	109.1469W	2134	From 1961-11-25 to 1962-05-03
Springerville	SV-	Arizona,U.S.A.	34.1756N	109.1469W	2134	From 1961-11-25 to 1962-05-03
Springfield	SGN	Nebraska,U.S.A.	41.0658N	96.2188W	347	From 1979-11-06 to 1981-09-01
Springfield	S49A	Kentucky,U.S.A.	37.7849N	85.2875W	230	From 2012-06-08
Springhill	SHIN	Indiana,U.S.A.	39.4278N	87.4083W	168	
Spring Hill	SHA	Alabama,U.S.A.	30.6944N	88.1428W	61	From 1910-12-01
Spring Road, Mineral	SPRD	Virginia,U.S.A.	38.0234N	77.8799W	110	
Springvale	WSDZ	North Island,New Zealand	39.9153S	174.9687E	100	From 1982-10-15 to 1982-10-24
Springville	U46A	Tennessee,U.S.A.	36.3590N	88.1773W	146	From 2011-11-20
Springville	O16A	Utah,U.S.A.	40.2067N	111.5024W	1789	From 2007-06-27 to 2009-04-09
Springville 2	SPG2	California,U.S.A.	36.2006N	118.7662W	625	
Spur Ranch, Miami	V30A	Texas,U.S.A.	35.7623N	100.6892W	931	From 2009-04-03 to 2011-02-16
Spurr Blockage Glacier	SPBG	Alaska,U.S.A.	61.2597N	152.3699W	1087	
Spurr Capps Glacier	SPCG	Alaska,U.S.A.	61.2919N	152.0205W	1329	
Spurr Chakachatna River	SPCR	Alaska,U.S.A.	61.2009N	152.2068W	984	
Spurr Northwest	SPNW	Alaska,U.S.A.	61.3471N	152.6039W	1040	
Spurr West	SPWE	Alaska,U.S.A.	61.2740N	152.5568W	1233	
Spur Tree	SPJ	Jamaica	17.9959N	77.5596W	751	
Squaw Creek	SQK	California,U.S.A.	38.8234N	122.8101W	639	
Squaw Harbor	SQF	Alaska,U.S.A.	55.2200N	160.5620W	360	
Squaw Peak	SQU	Utah,U.S.A.	40.2817N	111.6110W	2353	From 1974-09-01 to 1980-07-31
Squaw Tit	TIT	California,U.S.A.	41.0733N	123.9800W	700	
Srakaew	SRAK	Thailand	14.0120N	102.0425E	96	
SRDT	SRDT	Thailand	14.3495N	99.1212E	122	From 2008-10-22
Sredinnyy	SRDR	Kamchatskaya Oblast',Russia	56.3170N	159.7170E	800	
Sredniy Kalar	SRK	Chitinskaya Oblast',Russia	55.8700N	117.3800E	716	
Srikalahasti	SKHT	Andhra Pradesh,India	13.7408N	79.7095E	74	From 2008-12-26
Srinagar	SRNI	Jammu and Kashmir,India	34.1000N	74.8500E		
SRINAGAR	SRIN	Jammu and Kashmir	34.0600N	74.5100E	1587	From 1982-04-30
Sriramsagar	SRSP	Andhra Pradesh,India	18.9283N	78.3433E	315	From 2008-10-23
Srisailam	SRLM	Andhra Pradesh,India	16.1000N	78.8917E	480	From 2008-10-16
Srobarova	SRO	Slovakia	47.8133N	18.3133E	150	
SS1	SSX	Nevada,U.S.A.	37.2282N	116.2900W	2248	From 1965-01-01 to 1970-12-31
Stafford Cattle Company, Roaring Springs	Y30A	Texas,U.S.A.	33.8766N	100.8978W	812	From 2009-03-11 to 2011-02-13
STALIGIAL	STAL	Italy	46.2601N	12.7104E	625	From 2010-05-25
Stanardsville	R57A	Virginia,U.S.A.	38.2970N	78.5232W	230	From 2013-04-25
Standing Stone	SSPA	Pennsylvania,U.S.A.	40.6358N	77.8876W	270	From 1993-07-05
St-Andre-du-Lac-St-Jean	SANQ	Quebec,Canada	48.3200N	71.9900W	296	From 1984-11-25
Stanford	JSFM	California,U.S.A.	37.4052N	122.1760W	143	From 1966-12-13
Stanford	STAN	California,U.S.A.	37.4039N	122.1751W	125	From 1991-04-15 to 1994-06-30
Stanford	LT4	California,U.S.A.	37.4052N	122.1760W	143	From 1966-12-13
Stanford Telescope	SFT	California,U.S.A.	37.4052N	122.1760W	143	From 1966-12-13
Stanford Telescope, Santa Clara County	JSFB	California,U.S.A.	37.4037N	122.1760W	118	From 2000-12-12
Stanfors	ODEU	Sweden	64.4085N	20.7162E	212	
Stanga	SGAS	Sweden	57.3040N	18.4730E	43	From 1980-01-01 to 1991-12-31
Stanley	STID	Idaho,U.S.A.	44.1148N	114.8660W	1993	From 1992-12-01
St Anne's School, Harvey	AUHAR	West Australia,Australia	33.0900S	115.8900E	39	From 2014-04-09
Stansbury Island	SBU	Utah,U.S.A.	40.8218N	112.4670W	1317	From 1974-07-01 to 1976-10-31
Stansbury Island BLM, Grantsville	N15A	Utah,U.S.A.	40.8903N	112.5201W	1408	From 2007-02-18 to 2009-04-04
Stansbury North	SNU	Utah,U.S.A.	40.9238N	112.5100W	1378	From 1978-05-01 to 1986-09-30
Stansbury North	SNUT	Utah,U.S.A.	40.8857N	112.5090W	1652	
Star City	STAR	Arkansas,U.S.A.	33.8920N	91.7780W	107	From 1981-02-08
Starunia	STNU	Ukraine	48.7106N	24.5014E	391	From 2007-08-30
Star Valley	STI	Idaho,U.S.A.	42.8022N	111.0508W	2149	From 1976-12-01 to 1979-09-30
State Center	SCIA	Iowa,U.S.A.	41.9069N	93.2153W	311	From 2006-06-02
State College	SCP1	Pennsylvania,U.S.A.	40.8099N	77.8694W	353	
State College	SCP	Pennsylvania,U.S.A.	40.7950N	77.8650W	352	From 1966-10-20
State Game Land 141, Hazleton	N59A	Pennsylvania,U.S.A.	40.9168N	75.7703W	508	From 2010-11-08
State Highway 12, Trinidad	MHTCO	Colorado,U.S.A.	37.1280N	104.6910W	1978	
Stateville	455A	Georgia,U.S.A.	30.7422N	83.0260W	44	From 2012-02-11
Statfjord A Platform	STF	Norway	61.2560N	1.8170E	-148	
Station 2	STX	Nevada,U.S.A.	37.1940N	116.1610W	1632	From 1964-01-01 to 1970-12-31
Statte	SAE	Italy	40.5619N	17.2061E		
Stauanlage Cunera	CURA	Switzerland	46.6348N	8.7108E	1960	From 2009-10-28
St Aubert, Comte d'Islet	D61A	Quebec,Canada	47.2022N	70.1868W	146	From 2013-08-02
Staufenbuehl	STAB	Baden-Wurttemberg,Germany	48.2709N	9.0402E	898	From 2000-10-25
Staufen im Breisgau	STAU	Baden-Wurttemberg,Germany	47.8693N	7.7329E	299	From 2001-01-04

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
St Austell	CSA1	England,United Kingdom	50.3527N	4.8919W	112	From 1981-01-01
Stavanger	STAV	Norway	58.9348N	5.7022E	28	
Stavd-Durt	STDR	Severo-Osetinskaya,Russia	43.3689N	44.0631E	352	From 2009-03-14
Stavros Akrotiri	AKRT	Crete,Greece	35.5896N	24.0840E	10	From 2006-06-01
Stavrpu;p[is Thessaloniki	STL1	Greece	40.6623N	22.9350E	51	From 2011-06-01
St. Charles CC	SCMO	Illinois,U.S.A.	38.7618N	90.6413W	152	
St. Cloud	858A	Florida,U.S.A.	28.2126N	81.3616W	27	From 2012-02-14
St. Cloud Mine, Winston	Z21A	New Mexico,U.S.A.	33.3086N	107.6712W	1964	From 2008-02-22 to 2009-12-08
St. Croix	CDVI	Virgin Islands	17.7518N	64.7661W	3	From 2005-02-01
Stead Airport, Stead	P06A	Nevada,U.S.A.	39.6785N	119.8983W	1368	From 2006-04-28 to 2008-03-04
Ste Agathe de Lotbiniere,	E60A	Quebec,Canada	46.3689N	71.4469W	181	From 2013-08-07
Steamboat Mountain	STEW	Wyoming,U.S.A.	44.0497N	110.6967W	2316	From 1986-01-01 to 2007-08-07
Steam Cracks	STCH	Hawaii,U.S.A.	19.3853N	155.1250W	765	
Steaming Bluff	SBLHI	Hawaii,U.S.A.	19.4270N	155.2680W	1084	
Stebnicka Huta	STHS	Slovakia	49.4167N	21.2437E	534	From 2004-12-01
Ste Croix	LASF	Rhone-Alpes,France	44.0761N	3.8570E	520	
Steenkerk	BSKQ	Belgium	50.6487N	4.0796E	63	From 1994-08-01
Stefanesti	STFR	Romania	44.5324N	26.2131E	122	From 2004-05-05
Stefanesti-Arges	STFAR	Romania	44.8629N	24.9609E	495	From 2014-07-02
Steigen	STEI	Norway	67.9300N	15.2420E	21	From 2007-06-17
Stein am Rhein	STEIN	Switzerland	47.6697N	8.8690E	540	From 2003-08-29
Steinbach	BA18	Nordrhein-Westfalen,Germany	50.5938N	6.8393E	262	From 2006-10-01
Steinbach	STB	Nordrhein-Westfalen,Germany	50.5940N	6.8400E	270	From 1975-12-01
Ste Jean	SJPF	Aquitaine,France	43.1133N	1.2250W	450	From 1996-04-03
St-Eleuthere	SELQ	Quebec,Canada	47.5000N	69.3600W	459	From 1984-08-28
Stellar Camp, Hudson Bay	STLN	Nunavut,Canada	67.3116N	92.9849W	204	From 2006-08-18
Ste Marie-Mines	SMM	Alsace,France	48.2158N	7.1583E		
Stent	MSTM	California,U.S.A.	37.9045N	120.4050W	366	From 1972-04-19
Stepanavan	STE	Armenia	41.0000N	44.3700E	1390	From 1951-01-01
Stepanavan 1	ST1S	Armenia	40.9983N	44.3983E	1410	
Stepanavan 2	ST2S	Armenia	41.0217N	44.2600E	1625	
Stepanavan 7	ST7	Armenia	40.8883N	44.2792E	1910	
Stepenevan	STEZ	Armenia	41.0000N	44.3990E	1423	From 1996-10-01
Stephens Creek	STKA	New South Wales,Australia	31.8769S	141.5952E	272	From 1991-09-20
Stephens Creek	STK	New South Wales,Australia	31.8817S	141.5920E	213	From 1974-04-01 to 2006-05-29
Stephens Glacier	SGA	Alaska,U.S.A.	61.4207N	146.3950W	1326	From 1974-07-11 to 1976-01-28
Stepladder Mountains	STP	California,U.S.A.	34.5712N	114.8480W	628	From 1974-04-01 to 1976-10-31
Stepnoy Dvorets	STDB	Buryatiya,Russia	52.1690N	106.3660E	458	From 1999-08-01
Sterling	SGU	Utah,U.S.A.	39.1823N	111.6447W	2357	From 1978-10-01
Sterling City	230A	Texas,U.S.A.	31.8878N	101.1124W	742	From 2009-03-03 to 2011-02-05
Sterling Forest	SFN	New York,U.S.A.	41.1962N	74.2612W	244	
Sterling Forest	SFO	New York,U.S.A.	41.1962N	74.2600W	300	From 1962-01-01 to 1975-08-31
St-Etienne Orgue	STOF	France	43.9980N	5.9090E	650	
St. Eustatius	SEUS	Netherlands Antilles,Netherlands Antilles	17.4928N	62.9814W	46	From 2006-10-29
St. Eustatius G	SEUG	Netherlands Antilles	17.4800N	62.9720W	50	From 2013-12-01
St. Eustatius H	SEUH	Netherlands Antilles	17.4820N	62.9830W	50	From 2013-12-01
St. Eustatius T	SEUT	Netherlands Antilles	17.4690N	62.9750W	50	From 2013-12-01
St Evariste	F61A	Quebec,Canada	45.9743N	70.9921W	350	From 2013-08-05
Stevens Creek	SEC	California,U.S.A.	37.2845N	122.1240W	357	From 1966-12-23
Stevens Creek	LT1	California,U.S.A.	37.2845N	122.1240W	357	From 1966-12-23
Stevens Creek	JSCM	California,U.S.A.	37.2845N	122.1240W	357	From 1966-12-23
Stev Forest Ranch, Sanderson	529A	Texas,U.S.A.	30.1246N	102.2204W	764	From 2009-02-12 to 2010-12-11
Stewart Farms, Lamesa	129A	Texas,U.S.A.	32.6309N	101.8662W	876	From 2009-01-31 to 2010-12-07
Stewart Island	SIZ	Stewart Island,New Zealand	46.8734S	168.1331E	60	From 1990-12-12 to 2001-10-24
St. Gallen Kloster	STGK	Switzerland	47.4241N	9.3785E	672	From 2012-01-27
St. George Fire Station	SGSU	Utah,U.S.A.	37.0474N	113.6064W	755	From 2009-12-10
St-Georges	SGRQ	Quebec,Canada	46.1400N	70.5800W	330	From 1984-08-30
St. Georges / Gimel	GIMEL	Switzerland	46.5347N	6.2658E	1130	From 1999-09-06
Stickney	SY-	South Dakota,U.S.A.	43.6056N	98.4917W	488	From 1962-10-12 to 1962-10-27
Stickney	SY-SD	South Dakota,U.S.A.	43.6056N	98.4917W	488	From 1962-10-12 to 1962-10-27
Stiegenhof Hundestation	STIEG	Switzerland	47.4977N	8.6540E	535	From 2012-08-01
Stiles	STLY	New York,U.S.A.	41.1886N	74.0036W	125	
Stilesville Quarry	SVNB	New Brunswick,Canada	46.1628N	64.8750W	190	From 2013-09-06
Stillwater	STWA	New York,U.S.A.	42.9620N	73.6773W	103	
Stillwater	ST-NV	Nevada,U.S.A.	39.4381N	118.5800W	1219	From 1963-01-30 to 1963-03-29
Stillwater	ST-	Nevada,U.S.A.	39.4381N	118.5800W	1219	From 1963-01-30 to 1963-03-29
Stillwater	SWN	Nevada,U.S.A.	39.8830N	118.0623W	2298	
Stillwater Mine	STMT	Montana,U.S.A.	45.3860N	109.8608W	1756	
Stimpson Lane	OSTM	California,U.S.A.	39.3688N	121.5970W	28	From 1975-08-05
Stinnett	V29A	Texas,U.S.A.	35.8734N	101.5209W	953	From 2009-01-18 to 2010-11-11
Stip	STIP	FYR Macedonia	41.6943N	22.1862E	300	From 2005-08-01
St-Isidore-de-Clifton	G61A	Quebec,Canada	45.2827N	71.5273W	378	From 2013-09-25
Stithians	CST1	England,United Kingdom	50.1952N	5.1635W	141	From 1981-01-01
St. Johann (BS)	JOHAN	Switzerland	47.5747N	7.5693E	-56	From 2006-10-01
St. Johns	X19A	Arizona,U.S.A.	34.4275N	109.2901W	1861	From 2007-04-10 to 2009-02-03
St Joseph	LT2	California,U.S.A.	37.3338N	122.0910W	122	From 1966-12-23
St Joseph	JSJM	California,U.S.A.	37.3338N	122.0910W	122	From 1966-12-23
St Joseph's College, Albany	AUALB	West Australia,Australia	35.0000S	117.9000E	50	From 2012-09-24
St. Kitts, UWI Open Campus	SKOC	Netherlands Antilles	17.2929N	62.7323W	15	From 2013-05-09
St Laurent du Var	SLAF	Provence-Cote d'Azur,France	43.6706N	7.1846E	70	From 2012-07-14
St-Lin Laurentide	F58A	Quebec,Canada	45.8663N	73.8145W	73	From 2013-07-27
St-Lucie-de-Beauregard	SLBQ	Quebec,Canada	46.7400N	70.0200W	412	From 1984-08-30
St Luke's College, Karratha	AUKAR	West Australia,Australia	20.7500S	116.8200E	45	From 2013-09-12
St. Maarten	SMRT	Netherlands Antilles,Netherlands Antilles	18.0505N	63.0746W	260	From 2006-10-27
St. Maarten, Airport	STMA	Netherlands Antilles	18.0428N	63.1089W	28	From 2004-03-07
St-Marc-des-Carri˜ores	SMCQ	Quebec,Canada	46.6709N	72.0551W	47	From 2009-11-04
St. Martinville	543A	Louisiana,U.S.A.	30.0856N	91.8557W	4	From 2011-02-25 to 2012-12-07
St. Marys Cement	DRCO	Ontario,Canada	43.8766N	78.7023W	84	From 2011-10-26
St Mary Star of the Sea, Carnarvon	AUCAR	West Australia,Australia	24.8900S	113.6600E	17	From 2013-09-03
St. Maurice	E59A	Quebec,Canada	46.4803N	72.5108W	62	From 2013-07-30
St. Michael	G36A	Minnesota,U.S.A.	45.2344N	93.7509W	293	From 2010-09-12 to 2012-07-26
St.-Nazaire-Desert	OG26	Rhone-Alpes,France	44.5783N	5.3022E	840	
St. Niklaus Bahnhofstrasse	SNIB	Valais,Switzerland	46.1771N	7.8024E	1110	From 2010-12-21
Stockdale Mountain	SMNB	California,U.S.A.	35.9730N	120.5799W	416	
Stockdale Mountain	PSTM	California,U.S.A.	35.9288N	120.5080W	573	
Stockholm	D63A	Maine,U.S.A.	47.0370N	68.1066W	256	From 2013-09-19
Stockton	P31A	Kansas,U.S.A.	39.5211N	99.3783W	665	From 2009-05-18 to 2011-04-05
Stockton	S38A	Missouri,U.S.A.	37.6304N	93.9078W	294	From 2010-12-15 to 2012-10-27
Stoke	STNC	England,United Kingdom	53.0913N	2.2062W	234	From 2007-04-24
Stokes Ranch, Hill City	J12A	Idaho,U.S.A.	43.2500N	115.0980W	1587	From 2006-12-08 to 2008-07-25
Stokkvaagen	STOK	Norway	66.3330N	13.0177E	18	From 2003-09-01
Stolb	SOTR	Sakha,Russia	72.4000N	126.8250E	50	From 1985-02-01 to 1995-02-01
Stolberg	BA02	Nordrhein-Westfalen,Germany	50.7722N	6.2157E	230	From 2006-10-01
Stollet	SLL	Sweden	60.4760N	13.3200E	390	
Ston	STON	Croatia	42.8716N	17.6999E	5	From 2003-10-13
Stone Canyon	SCYB	California,U.S.A.	36.0094N	120.5366W	695	
Stone Canyon	BSCM	California,U.S.A.	36.6330N	121.2340W	357	From 1976-10-06
Stone Canyon Observatory	STC	California,U.S.A.	36.6350N	121.2397W	267	From 1967-01-22 to 1976-10-06
Stone Canyon Reservoir	SCY	California,U.S.A.	34.1062N	118.4540W	287	From 1971-09-16
Stone Corral	PSNM	California,U.S.A.	35.7878N	120.2951W	390	
Stoneham	STOQ	Quebec,Canada	47.0188N	71.3795W	201	From 2007-11-02
Stone Ridge	PONY	New York,U.S.A.	41.8517N	74.1500W	0	
Stone Ridge	SPNY	New York,U.S.A.	41.8756N	74.1492W	0	
Stone Ridge	PKNY	New York,U.S.A.	41.8742N	74.1714W	0	
Stone Valley	CSVM	California,U.S.A.	37.8653N	122.0063W	199	
Stoney Creek	RD04	Ontario,Canada	43.1524N	79.6988W	168	
Stoneypath	ESY	Scotland,United Kingdom	55.9178N	2.6144W	328	From 1981-11-27
Stoney Pound	SSP1	Wales,United Kingdom	52.4177N	3.1119W	428	From 1990-01-01
Stony Hill	STH	Jamaica	18.0767N	76.8094W	418	From 1969-08-01
Stonyhurst	STO	England,United Kingdom	53.8500N	2.4667W	116	
Stony Point	SNPY	New York,U.S.A.	41.2663N	74.0040W	122	From 1975-06-17
Stony River	STY	Alaska,U.S.A.	61.1445N	154.2020W	1047	From 1972-07-24 to 1975-01-29
Storm Lake	K35A	Iowa,U.S.A.	42.7218N	95.2328W	439	From 2010-07-28 to 2012-05-16
Storozhevoye	VSR	Voronezhskaya Oblast',Russia	51.2162N	39.1664E	186	From 2007-09-03
Storozhevoye	VRSR	Voronezhskaya Oblast',Russia	51.2150N	39.1900E	180	
Stover Farm, Hazelton	K13A	Idaho,U.S.A.	42.6493N	114.0840W	1222	From 2006-12-12 to 2008-08-05
Stowe	DSTT	Dominica	15.2467N	61.3035W	120	
Stow on the Wold	SSW	England,United Kingdom	51.9667N	1.8499W	291	
St-Pascal	STPQ	Quebec,Canada	47.5300N	69.8000W	62	From 1979-09-19

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
St-Paul-en-Foret	SPF	Provence-Cote d'Azur,France	43.5639N	6.6972E	337	
Strafford	J63A	New Hampshire,U.S.A.	43.2792N	71.0781W	142	From 2013-09-08
Strandline Lake	STLK	Alaska,U.S.A.	61.4987N	151.8330W	940	
Strasbourg	STR	Alsace,France	48.5845N	7.7658E	135	
Strasburg	Q57A	Virginia,U.S.A.	39.0353N	78.4107W	324	From 2013-04-25
Stratford	STZ	North Island,New Zealand	39.3440S	174.2924E	305	From 1934-10-01 to 1939-03-31
Strathalbyn	STR2	South Australia,Australia	35.2871S	138.8479E	155	From 2007-01-08
Strathcona Park Lodge	SPLB	British Columbia,Canada	49.8921N	125.6526W	276	From 2009-07-30
Strathgordon	STG	Tasmania,Australia	42.8483S	146.2070E	350	From 1972-07-01 to 2009-09-03
Strathgordon Vge	STGV	Tasmania,Australia	42.7682S	146.0476E	0	
Strazhica	SZH	Bulgaria	43.2667N	25.9333E	310	From 1988-01-01
Streeter	ST1	Texas,U.S.A.	30.7522N	99.3556W	518	
Streeter	ST4	Texas,U.S.A.	31.1633N	100.0611W	640	From 1967-04-16 to 1967-05-16
Streeter	ST4TX	Texas,U.S.A.	31.1633N	100.0611W	640	From 1967-04-16 to 1967-05-16
Streeter	ST2TX	Texas,U.S.A.	30.7922N	99.4478W	579	
Streeter	ST1TX	Texas,U.S.A.	30.7522N	99.3556W	518	
Streeter	ST2	Texas,U.S.A.	30.7922N	99.4478W	579	
Strehaia	SRE	Romania	44.6622N	23.2052E	335	From 1982-09-01
Strider, Charleston	Y44A	Mississippi,U.S.A.	33.9618N	90.2112W	46	From 2011-04-15 to 2013-02-08
Stringfield Ranch, Weed	124A	New Mexico,U.S.A.	32.7001N	105.4544W	2078	From 2008-02-27 to 2010-01-18
Striped Hills	SDH	Nevada,U.S.A.	36.6453N	116.3378W	1073	From 1978-07-24 to 2002-12-10
Striped Peak	STW	Washington,U.S.A.	48.1502N	123.6700W	308	From 1973-06-27
Strizhament	STRR	Stavropol'skiy Kray,Russia	44.7747N	42.0153E	820	
Stroemstad	STRU	Sweden	59.0345N	11.1825E	50	From 2006-07-27
Strofades	SFD	Greece	37.2512N	21.0165E	45	From 2009-07-24
STROMBOLI 3	STR3	Sicily,Italy	38.7978N	15.2305E	195	From 2003-05-01
STROMBOLI 4	STR4	Sicily,Italy	38.7739N	15.2115E	86	From 2003-05-01
Stromboli 5	STR5	Sicily,Italy	38.7911N	15.2032E	632	From 2003-05-01
Stromboli F	IST3	Sicily,Italy	38.7992N	15.2304E	255	From 2011-06-17
Stromboli-G	GIN	Italy	38.7897N	15.1908E	125	
Stromboli Ginostra	ISTR	Sicily,Italy	38.7867N	15.1919E	116	From 2011-06-15
Stromboli Pizzo	ISTP	Sicily,Italy	38.7927N	15.2143E	963	From 2011-06-27
Stronsay	OST	Orkney Islands,United Kingdom	59.0860N	2.5516W	15	From 1995-09-21
Stroppo	PZZ	Italy	44.5068N	7.1160E	1430	From 1985-01-01
Stroud	STRD	England,United Kingdom	51.7763N	2.1639W	187	From 2009-07-14
Str Punta Lena IE	ISPL	Sicily,Italy	38.7747N	15.2112E	160	From 1996-01-01
Struganik	STRS	Serbia	44.2036N	20.1115E	0	
St. Stephen	Z58A	South Carolina,U.S.A.	33.3349N	79.8129W	18	From 2013-02-24
Studebaker Ridge	STD	Washington,U.S.A.	46.2378N	122.2230W	1268	
Studenec	STCW	Czech Republic	50.2591N	12.5197E	666	From 1997-01-01
Stuetta	TUE	Italy	46.4722N	9.3472E	1955	
Stulken Farm, Doniphan	N32A	Nebraska,U.S.A.	40.7639N	98.2955W	587	From 2009-09-08 to 2011-08-19
Stuttgart	STU	Baden-Wurttemberg,Germany	48.7719N	9.1950E	360	From 1929-01-01
Stuttgart	X42A	Arkansas,U.S.A.	34.5532N	91.6262W	62	From 2011-07-28 to 2013-02-16
Stutzman Family Farm, Minonk	N43A	Illinois,U.S.A.	40.9394N	89.1735W	215	From 2011-11-04
Stuzhytsa	STZU	Ukraine	49.0163N	22.6229E	385	From 2011-03-15
St. Veronique	E56A	Quebec,Canada	46.5436N	75.0341W	320	From 2013-07-30
St. Vincent, Congo Valley	SVCV	St Vincent,Saint Vincent and the Grenadines	13.2722N	61.1451W	250	From 2010-04-23
Stwlan	WST	Wales,United Kingdom	52.9750N	3.9889W	850	From 1986-01-01
Suanglung	SSLB	Taiwan region	23.7875N	120.9540E	450	
Suao	TWC	Taiwan region	24.6092N	121.8490E	20	From 1973-03-16
Suao Port	TWCP	Taiwan region	24.5970N	121.8570E	0	From 2001-04-10
Subarray A0 LASA	-A0MA	Montana,U.S.A.	46.6886N	106.2222W	897	
Subic Bay	SBP	Luzon,Philippines	14.8333N	120.2830E		
Suche	PT08	Peru	11.9600S	76.5490W	2880	From 1983-08-30
Suckling Hill	SUK	Alaska,U.S.A.	60.0737N	143.7770W	454	
Suckling Hills	SUCK	Alaska,U.S.A.	60.0725N	143.7770W	467	
SUCO	SUCO	Cordoba,Argentina	33.3445S	64.8835W	780	From 2001-07-13
Sucre	SUC	Bolivia	19.0467S	65.2644W	2850	
Sucupira, TO, Brazil	RET4	Tocantins,Brazil	12.1850S	48.7117W	264	From 2008-07-20 to 2012-06-09
Sudak	SUDU	Ukraine	44.8900N	35.0000E	108	From 1998-10-01
Sudbury	SUO	Ontario,Canada	46.4027N	81.0068W	252	
Sudbury	SWO	Ontario,Canada	46.7328N	80.9994W	372	
Sudbury	SZO	Ontario,Canada	46.4381N	81.4961W	312	From 1987-01-24
Sudbury	SWXO	Ontario,Canada	46.5971N	81.2778W	337	
Sudbury	SUD	Ontario,Canada	46.4667N	80.9667W	267	From 1967-11-22
Sudbury Onaping	SUNO	Ontario,Canada	46.6438N	81.3442W	369	
Sudden Peak, Lompoc	SDP	California,U.S.A.	34.5655N	120.5014W	631	From 2002-01-18 to 2006-08-15
Sud-Ghoubbet	SGH	Djibouti	11.4370N	42.6307E	700	From 1976-04-01
Sue Hot Springs	SOX	Nevada,U.S.A.	40.1017N	117.7167W	1198	
Suez	SUZ	Egypt	29.8406N	32.8322E	277	
Suffern	SUFF	New York,U.S.A.	41.1583N	74.1092W	152	
Suffield	SES	Alberta,Canada	50.3958N	111.0420W	770	From 1966-05-11
Suffield	L62A	Connecticut,U.S.A.	42.0328N	72.6617W	49	From 2013-09-06
Sufian	SFNV	Syria	36.4180N	40.1116E	810	From 2002-04-01
Sufi-Kurgan	SFK	Kyrgyzstan	40.0130N	73.5030E	2160	
Sugar Bowl	BOLM	Washington,U.S.A.	46.2154N	122.1747W	1859	From 2004-10-03
Sugar Creek Farm, Atlanta	O43A	Illinois,U.S.A.	40.2856N	89.3130W	224	From 2011-08-17 to 2013-05-07
Sugar Island	SUG	Michigan,U.S.A.	46.5214N	84.1383W	190	From 1969-09-26 to 1972-08-09
Sugar Loaf	SLFW	Washington,U.S.A.	47.7589N	120.5278W	1750	
Sugarloaf Mountain West	SMWM	California,U.S.A.	36.0193N	117.8458W	1116	
Sugihara	SRJ	Gifu,Japan	36.4141N	137.1917E	440	
Sugihashi	SGJ	Fukui,Japan	35.6111N	136.1456E	210	
Suhut-Afyon	SHUT	Turkey	38.5530N	30.5511E	1215	From 2006-11-02
Sui-hua	SUI	Heilongjiang,China	46.6233N	126.9920E		
Sukabumi	SKJI	Jawa,Indonesia	7.0053S	106.5563E	100	From 2005-01-01
Sukhothai	SUKH	Thailand	17.4821N	99.6310E	58	
Sukute	SUKT	Nepal	27.7057N	85.7612E	745	From 2002-03-05 to 2002-11-07
Sulaymaniyah	SLY	Iraq	35.6000N	45.5000E	912	
Sulen	SUE	Norway	61.0570N	4.7610E	10	From 1984-11-01
Sulfur Bank	SB4	California,U.S.A.	38.8089N	122.8292W	327	
Sulina	TSSL	Romania	45.1621N	29.7269E	65	From 2013-05-14
Sullivan	SLTN	Tennessee,U.S.A.	36.4432N	82.1205W	1280	
Sulphur Creek	SUL	New Britain,Papua New Guinea	4.2194S	152.1930E	9	
Sultana	SULJ	Jordan	31.0867N	36.0767E	951	
Sultana	SALT	Saudi Arabia	29.0230N	34.9080E	350	From 1993-07-01
Sultanhani-AKSARAY	SULT	Turkey	38.1988N	33.5156E	982	From 2008-01-04
Sultanice-Enez-Edirne	ENZZ	Turkey	40.6074N	26.1406E	7	From 2011-03-28
Sultan-Mazar	SMT	Tajikistan	38.4667N	70.0667E		
Sumara - IBB Gov. - Yemen	SMRH	Yemen	14.1840N	44.2570E	2990	From 2005-10-23
Sumbawanga	SUMB	Tanzania,United Republic of Tanzania	7.9530S	31.6195E	1836	
Sumiainen	SUF	Finland	62.7192N	26.1506E	185	
Sumiya	SMAJ	Jordan	32.1550N	35.7830E	565	From 1983-09-01 to 1985-12-16
Summer Lake	K05A	Oregon,U.S.A.	42.7258N	120.8934W	1887	From 2006-07-31 to 2009-01-08
Summer Shade	SSKY	Kentucky,U.S.A.	36.7955N	85.7925W	300	From 1983-04-21 to 1987-03-05
summerside station 1	HC1P	Prince Edward Island,Canada	46.4340N	63.7953W	1	From 2013-05-23
summerside station 2	HC2P	Prince Edward Island,Canada	46.4323N	63.7642W	20	From 2013-05-23
summerside station 3	HC3P	Prince Edward Island,Canada	46.4240N	63.7395W	7	From 2013-05-23
summerside station 4	HC4P	Prince Edward Island,Canada	46.4106N	63.6705W	16	From 2013-05-23
Summerton	SMA	South Carolina,U.S.A.	33.6283N	80.3181W	30	From 1974-05-20 to 1975-07-01
Summit	SUMG	Greenland	72.5763N	38.4538W	3275	
Summit Reservoir	SURI	Idaho,U.S.A.	44.3058N	113.4830W	2324	
Summit Valley	SVMT	Montana,U.S.A.	45.8822N	112.5710W	1914	From 1984-01-01 to 1987-10-21
Sumner High School ANSS-SMO	SMNR	Washington,U.S.A.	47.2044N	122.2327W	626	From 2001-07-17
Sumoto	SUM	Hyogo,Japan	34.3350N	134.9080E	110	
Sumqayit	SMGA	Azerbaijan	40.6050N	49.6410E	-21	
Sumter	Y57A	South Carolina,U.S.A.	34.0170N	80.3915W	56	From 2013-02-19
Sunasenri	SUNK	Kumamoto,Japan	32.8695N	131.0892E	1240	
Sunbury	N58A	Pennsylvania,U.S.A.	40.8396N	76.7158W	200	From 2013-07-04
Sunchang	SUCA	Republic of Korea	35.3736N	127.1386E	100	From 2012-11-24
SUNCHEON	KSSCH	Republic of Korea	35.0649N	127.2408E	54	From 2006-12-30
Sundarnagar	SDNR	Himachal Pradesh,India	31.5000N	76.9700E	500	
Sundja	SNJR	Severo-Osetinskaya,Russia	43.0685N	44.8117E	671	From 2006-01-10 to 2010-06-20
Sundridge	F52A	Ontario,Canada	45.7951N	79.3227W	351	From 2012-11-02
Sunflower	SN-	Arizona,U.S.A.	33.8636N	111.6928W	884	From 1964-03-29 to 1965-10-04
Sunflower	SN-AZ	Arizona,U.S.A.	33.8636N	111.6928W	884	From 1964-03-29 to 1965-10-04
Sungai Dareh	SDSI	Sumatera,Indonesia	0.9324S	101.4282E	0	From 2007-12-01
Sunmer	J47A	Michigan,U.S.A.	43.2382N	84.8214W	236	From 2012-09-14
Sun Moon Lake	SMLT	Taiwan region	23.8830N	120.8999E	1014	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Sunnyside	SUN	Utah,U.S.A.	39.6167N	110.4000W		
Sunnyside	E07A	Washington,U.S.A.	46.5585N	119.8548W	561	From 2006-08-29 to 2008-12-03
Sunnyside Mine	SMU	Utah,U.S.A.	39.6000N	110.3820W	1981	From 1962-01-01 to 1968-12-31
Sunnyside Ranch, Fairfax	H35A	Minnesota,U.S.A.	44.6985N	94.8311W	345	From 2010-09-26 to 2012-09-10
Sunol Dilatometer	CSU1	California,U.S.A.	37.6430N	121.9402W	499	
Sunset Crater	SCN	Arizona,U.S.A.	35.3689N	111.5430W	2111	From 1970-07-20
Sunset Lake	SSL	Pennsylvania,U.S.A.	41.1612N	74.9160W	259	From 1973-02-13 to 1976-05-31
Sunset Peak	SSK	California,U.S.A.	34.2107N	117.6930W	1683	
Sunshine	SSH	Alaska,U.S.A.	62.1667N	150.0780W	100	From 1971-08-01 to 1972-09-30
Sunshine Farm, Cogan Station	M57A	Pennsylvania,U.S.A.	41.3372N	77.1280W	319	From 2013-08-30
Sunshine Point	SNH	Alaska,U.S.A.	60.1800N	142.8380W	732	
Sunshine Ranch, Edgemont	J25A	South Dakota,U.S.A.	43.3901N	103.8026W	1220	From 2009-06-06 to 2011-05-10
Superstition Mountain	SUP	California,U.S.A.	32.9552N	115.8240W	220	From 1973-04-16
Superstition Mountain	SMTC	California,U.S.A.	32.9489N	115.7203W	3	
Suratani	SURT	Thailand	8.9577N	98.7950E	26	
Surathani	SURA	Thailand	9.1663N	99.6295E	-5	
Surbourg	SUBF	Alsace,France	48.9156N	7.8481E	68	From 2009-06-01
Surbourg	SRBF	Alsace,France	48.9147N	7.8522E	200	
Surduc	SDR	Romania	45.4889N	26.3831E	720	
Surhuizum	SUH1	Netherlands	53.2113N	6.2110E	21	From 2009-08-26
Surhuizum	SUH2	Netherlands	53.2113N	6.2110E	-9	From 2009-08-26
Surhuizum	SUH4	Netherlands	53.2113N	6.2110E	-69	From 2009-08-26
Surhuizum	SUH3	Netherlands	53.2113N	6.2110E	-39	From 2009-08-26
Surigao	SCPH	Mindanao,Philippines	9.7820N	125.4890E	49	
Surrey Hills	SHYM	Victoria,Australia	37.8260S	145.1100E	100	
Surry	T60A	Virginia,U.S.A.	37.1397N	76.7349W	11	From 2013-03-19
Survey Creek	SURV	British Columbia,Canada	53.4033N	132.1250W	186	
Susaki	SUS	Shizuoka,Japan	34.6667N	138.9830E	3	
Susana Heights	SHMP	Philippines	14.3820N	121.0230E	80	
Susan B. English School	SBEA	Alaska,U.S.A.	59.4423N	151.7123W		
Susara	SSR	Romania	44.8633N	21.7433E	400	
Susara	SSA	Romania	44.8633N	21.7433E	400	
Susehri	SUSE	Turkey	40.2086N	38.2025E	1586	From 2008-06-25
Susitna	SST	Alaska,U.S.A.	61.4347N	150.7800W	780	From 1971-08-24 to 1972-08-15
Susitna One	SUA	Alaska,U.S.A.	61.4638N	150.7430W	1297	From 1972-08-15
Sussex County Emergency Operations Center	SCOM	Delaware,U.S.A.	39.6957N	75.3627W	12	
Susuman	GRESR	Magadanskaya Oblast',Russia	63.0423N	147.2020E	793	From 2009-10-23
Susuman	SUUS	Magadanskaya Oblast',Russia	62.7786N	148.1672E	640	
Susuman-Seymchan profile, station 01	SS01	Magadanskaya Oblast',Russia	62.8224N	148.4186E	720	From 2004-04-01 to 2004-04-03
Susuman-Seymchan profile, station 02	SS02	Magadanskaya Oblast',Russia	62.7994N	148.8056E	820	
Susuman-Seymchan profile, station 03	SS03	Magadanskaya Oblast',Russia	62.8099N	149.1240E	639	From 2004-04-04 to 2004-04-05
Susuman-Seymchan profile, station 04	SS04	Magadanskaya Oblast',Russia	62.8434N	149.0507E	649	From 2004-04-05 to 2004-04-05
Susuman-Seymchan profile, station 05	SS05	Magadanskaya Oblast',Russia	62.8575N	149.7723E	450	From 2004-04-06 to 2004-04-09
Susuman-Seymchan profile, station 06	SS06	Magadanskaya Oblast',Russia	62.8576N	150.5658E	318	From 2004-04-07 to 2004-04-07
Susuman-Seymchan profile, station 07	SS07	Magadanskaya Oblast',Russia	62.8146N	150.8321E	345	From 2004-04-08 to 2004-04-09
Susuman-Seymchan profile, station 08	SS08	Magadanskaya Oblast',Russia	62.9899N	152.0816E	310	From 2004-04-13 to 2004-04-19
Susuman-Seymchan profile, station 09	SS09	Magadanskaya Oblast',Russia	62.9217N	151.8504E	400	From 2004-04-14 to 2004-04-19
Susuman-Seymchan profile, station 10	SS10	Magadanskaya Oblast',Russia	63.1451N	152.2005E	293	From 2004-04-17 to 2004-04-19
Susurluk	SLK	Turkey	39.8711N	28.1450E	147	From 1979-12-01 to 1999-08-25
Sutcliffe	SC-NV	Nevada,U.S.A.	39.8739N	119.6408W	1341	
Sutcliffe	SC-	Nevada,U.S.A.	39.8739N	119.6408W	1341	
Sutherland	SUR	Cape Province,South Africa	32.3800S	20.8117E	1760	
Sutluce-Isparta	SUTC	Turkey,Turkey	37.4765N	30.9996E	1300	From 2008-04-02
Sutter Butte	SUTB	California,U.S.A.	39.2291N	121.7861W	252	From 2005-05-17 to 2007-09-05
Sutter Buttes	OSUM	California,U.S.A.	39.2712N	121.8520W	67	From 1976-04-01
Sutton Inlier	SILO	Ontario,Canada	54.4792N	84.9126W	195	
Suttons Bay	G45A	Michigan,U.S.A.	45.0404N	85.6571W	284	From 2012-11-09
Suttsu	SUT	Shiribeshi,Japan	42.7900N	140.2400E	16	
Suttsu	SUT1	Shiribeshi,Japan	42.7933N	140.2283E	33	From 1989-09-22
Sut uroy	FSD	Faeroe Islands	61.5701N	6.7884W		
Suurupi	SRPE	Estonia	59.4633N	24.3800E	42	
Suva	SVA	Fiji	18.1167S	178.4580E	38	From 1976-07-01
Suva	SUV	Fiji	18.1489S	178.4570E	6	From 1913-01-01 to 1971-06-30
Suvo	SYVR	Buryatiya,Russia	53.6581N	109.9989E	490	
Suwalki	SUW	Poland	54.0125N	23.1808E	152	From 1995-11-05
Suwon	KSSWO	Republic of Korea	37.2669N	126.9669E	56	From 2002-11-06
Suzu	JSZ	Ishikawa,Japan	37.4483N	137.3633E	10	
Suzuyama	JSU	Kagoshima,Japan	31.5058N	130.4550E	400	
Svangstu Ranch, Noonan	A25A	North Dakota,U.S.A.	48.9388N	103.1128W	584	From 2009-07-24 to 2011-07-22
Svanoeiden	SVAU	Sweden	64.4940N	19.5750E	100	From 2000-09-08
Svartarkot	ISVA	Iceland	65.3370N	17.2550W	403	From 1998-07-27
Svendsen Farm, Lyons	L34A	Nebraska,U.S.A.	41.9666N	96.3762W	424	From 2010-05-31 to 2012-04-25
Sverdlovsk	SVE	Sverdlovskaya Oblast',Russia	56.8270N	60.6370E	275	
Svilajnac	SVIS	Serbia	44.2655N	21.2152E	117	From 1997-10-14
Svinoy	FSV	Faeroe Islands	62.2598N	6.3550W		
Swabi-Maira	SWR	Pakistan	34.1303N	72.8498E	489	From 1973-08-23 to 2009-09-20
Swabi Mera	SWM1	Pakistan	34.1300N	72.8490E	462	From 2009-09-20
Swamp Creek	SWP	Montana,U.S.A.	48.6068N	114.9850W	1157	From 1971-02-01 to 1976-10-04
Swan Island	SWA	Swan Islands,Honduras	17.4000N	83.9333W		
Swan Lake	C14A	Montana,U.S.A.	47.7687N	113.7468W	1173	From 2006-10-03 to 2009-08-08
Swan Pond Ditch	SPIN	Indiana,U.S.A.	38.5400N	87.6069W	122	
Swansea	HSA	Wales,United Kingdom	51.7478N	4.1543W	274	From 1987-01-01
Swansea	SWAN	New South Wales,Australia	33.0920S	151.6330E	3	From 2007-01-01
Swanson's Bluff	BSBM	California,U.S.A.	36.7378N	121.2870W	398	From 1975-06-25
Swan View	SWV	Western Australia,Australia	31.8833S	116.0650E	80	
Swanville	F35A	Minnesota,U.S.A.	45.8580N	94.5734W	376	From 2010-09-10 to 2012-07-27
Swaqa	SWQJ	Jordan	31.2430N	36.0600E	876	
Swartz Lake	SWMT	Montana,U.S.A.	47.5093N	113.9990W	1297	
Swaziland	SWL	Swaziland	26.3122S	31.1538E	0	
Swaziland	SWD	Swaziland	26.4017S	31.7728E		From 1973-03-12 to 1976-03-20
Sweathouse Lookout Tower, Alberta	SWHSA	Alberta	54.8994N	116.7518W	913	From 2014-07-30
Sweetgrass	SW-	Montana,U.S.A.	48.9689N	111.9628W	1113	From 1965-10-16 to 1966-09-13
Sweetgrass	SW-MA	Montana,U.S.A.	48.9689N	111.9628W	1113	From 1965-10-16 to 1966-09-13
Sweet Springs	SSOR	Oregon,U.S.A.	44.8560N	122.4600W	1242	From 1991-09-01
Sweetwater, Wamsutter	M20A	Wyoming,U.S.A.	41.4906N	108.1865W	2134	From 2007-11-02 to 2009-10-18
Swindon	SWN1	England,United Kingdom	51.5131N	1.8004W	192	From 1993-01-01
Swingate, Kent	SWG	England,United Kingdom	51.1450N	1.3222E	122	From 2011-02-08
Swisshome	I02D	Oregon,U.S.A.	44.1059N	123.8469W	109	From 2010-08-07
SW Tenn Gill Cnt	GILT	Tennessee,U.S.A.	35.2309N	89.9829W	0	
Sydney	DNSO	New South Wales,Australia	33.8081S	151.0711E	28	From 2011-07-25
Sydney	SYD	New South Wales,Australia	33.8667S	151.2000E	43	From 1906-01-01 to 1948-12-31
Sydney Hard Rock	SYDH	New South Wales,Australia	33.7619S	150.7417E	63	From 2010-08-01
Sydney Soft Rock	SYDS	New South Wales,Australia	33.9297S	151.2243E	21	From 2010-04-30
Syktyvkar	SYKR	Komi,Russia	61.6708N	50.8247E	127	
Syllakh	SYL	Sakha,Russia	57.1200N	121.8600E	600	From 1989-01-01 to 1989-12-31
Sylvania	156A	Georgia,U.S.A.	32.6542N	81.4950W	40	From 2012-04-05
Syncline Ridge	NYS	Nevada,U.S.A.	37.0325N	116.1690W	1509	From 1971-01-01 to 1973-01-31
Syolatti, Pyhajoki	OBF0	Finland	64.4976N	24.2372E	25	From 2013-04-04
Syowa Base	SYO	Dronning Maud Land	69.0088S	39.5921E	20	
Syston	KSY	England,United Kingdom	52.9642N	0.5873W	123	From 1988-01-01
Syuhurei	SYU	Republic of Korea	36.2000N	128.0000E	100	
Szeged	SZE	Hungary	46.2483N	20.1414E	82	
Szhu	WSF	Taiwan region	23.6380N	120.2220E	6	
T031	T031	Sweden	57.2250N	13.6500E	185	
T034	T034	Sweden	57.3120N	14.3620E	210	
T035	T035	Sweden	57.1640N	14.7850E	180	
T036	T036	Sweden	57.4350N	13.9440E	205	
T037	T037	Sweden	57.3170N	15.0040E	235	
T038	T038	Sweden	57.6720N	13.9700E	280	
T039	T039	Sweden	57.5720N	14.3640E	315	
T043	T043	Sweden	58.0270N	14.7300E	210	
T044	T044	Sweden	58.2500N	14.9060E	140	
T052	T052	Sweden	57.8930N	15.6740E	170	
T053	T053	Sweden	58.0810N	15.4330E	155	
T054	T054	Sweden	58.0540N	15.9300E	160	
T056	T056	Sweden	58.3010N	16.1900E	80	
T057	T057	Sweden	58.4740N	15.9980E	55	
T058	T058	Sweden	58.5970N	15.5740E	95	
T059	T059	Sweden	58.5270N	16.5750E	25	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
T061	T061	Sweden	58.9080N	15.6300E	75	
T065	T065	Sweden	55.3470N	13.3610E	8	
T066	T066	Sweden	55.5620N	12.9470E	12	
T067	T067	Sweden	55.5630N	13.5660E	115	
T068	T068	Sweden	55.7650N	12.9230E	4	
T069	T069	Sweden	56.0160N	12.8400E	56	
T070	T070	Sweden	56.0330N	13.6100E	118	
T071	T071	Sweden	56.2450N	12.6510E	18	
T073	T073	Sweden	56.2190N	13.2270E	110	
T074	T074	Sweden	56.6760N	13.9250E	136	
T075	T075	Sweden	56.7000N	14.5350E	165	
T076	T076	Sweden	56.7280N	13.1600E	95	
T077	T077	Sweden	56.9570N	14.3980E	192	
T10G	T10G	Germany	51.6100N	10.3160E	250	
T11G	T11G	Germany	51.7260N	9.4160E	280	
T12G	T12G	Germany	51.8350N	10.0530E	280	
T13G	T13G	Germany	51.9890N	9.6030E	230	
T14G	T14G	Germany	51.9990N	10.4260E	223	
T14S	T14S	Sweden	56.2590N	13.6230E	140	
T15G	T15G	Germany	52.0620N	10.0150E	185	
T16G	T16G	Germany	52.2370N	9.5220E	305	
T16S	T16S	Sweden	56.4270N	13.2270E	80	
T17G	T17G	Germany	52.2190N	10.2380E	78	
T18G	T18G	Germany	52.5230N	10.4650E	55	
T18S	T18S	Sweden	56.5200N	13.5660E	110	
T19G	T19G	Germany	52.5470N	9.4840E	35	
T1BD	T1BD	Denmark	55.8630N	12.2400E	24	
T1BG	T1BG	Germany	54.0780N	10.4520E	30	
T1MG	T1MG	Germany	54.2120N	10.0710E	36	
T21G	T21G	Germany	52.7060N	9.5700E	25	
T22G	T22G	Germany	52.7540N	10.1190E	65	
T24G	T24G	Germany	52.8990N	9.5870E	60	
T25G	T25G	Germany	53.0710N	10.3400E	70	
T26G	T26G	Germany	52.9590N	12.0310E	33	
T27G	T27G	Germany	54.5720N	13.6580E	100	
T28G	T28G	Germany	54.4740N	13.4690E	28	
T29G	T29G	Germany	54.3140N	13.3560E	25	
T2BD	T2BD	Denmark	55.7030N	11.5480E	8	
T2BG	T2BG	Germany	54.2230N	10.0740E	36	
T2MG	T2MG	Germany	54.1630N	10.4590E	35	
T30G	T30G	Germany	54.1920N	13.1770E	28	
T30S	T30S	Sweden	57.0950N	13.9460E	210	
T31G	T31G	Germany	54.0140N	13.0690E	13	
T32G	T32G	Germany	53.8500N	12.9050E	5	
T33G	T33G	Germany	53.6920N	12.7510E	42	
T34G	T34G	Germany	53.5260N	12.6550E	72	
T35G	T35G	Germany	53.3560N	12.4410E	71	
T36G	T36G	Germany	53.1550N	12.2590E	80	
T37G	T37G	Germany	52.8200N	11.8460E	22	
T38G	T38G	Germany	52.5260N	11.4590E	52	
T39G	T39G	Germany	52.3360N	11.3810E	63	
T3BD	T3BD	Denmark	55.5360N	12.0780E	33	
T3BG	T3BG	Germany	54.3280N	10.5470E	100	
T3MG	T3MG	Germany	54.4460N	10.0600E	30	
T40G	T40G	Germany	52.2410N	11.2860E	110	
T40S	T40S	Sweden	57.5810N	15.0390E	300	
T41G	T41G	Germany	52.0860N	11.1190E	102	
T41S	T41S	Sweden	57.8370N	15.1650E	300	
T42G	T42G	Germany	51.8720N	10.9110E	160	
T42S	T42S	Sweden	57.7610N	14.6640E	300	
T43G	T43G	Germany	51.6880N	10.7890E	450	
T45G	T45G	Germany	53.2190N	10.6530E	60	
T46G	T46G	Germany	53.2620N	9.9840E	110	
T48G	T48G	Germany	54.0120N	10.0120E	60	
T49G	T49G	Germany	53.8320N	9.7680E	30	
T4BD	T4BD	Denmark	55.2190N	11.5950E	20	
T4BG	T4BG	Germany	53.1350N	9.8000E	80	
T50G	T50G	Germany	52.1020N	9.1900E	270	
T51G	T51G	Germany	52.0690N	8.3700E	305	
T52G	T52G	Germany	51.7680N	7.8200E	80	
T53G	T53G	Germany	52.8940N	11.1420E	18	
T54G	T54G	Germany	53.7470N	11.3440E	65	
T55G	T55G	Germany	53.9270N	11.1530E	55	
T5BD	T5BD	Denmark	54.8860N	11.8150E	12	
T5BG	T5BG	Germany	53.1880N	9.3360E	30	
T5 Ranch, Ellsworth	L27A	Nebraska,U.S.A.	42.0837N	102.3154W	1186	From 2008-11-23 to 2010-10-05
T60G	T60G	Germany	53.6780N	12.2290E	50	
T60S	T60S	Sweden	58.7580N	15.9430E	200	
T61G	T61G	Germany	54.1700N	12.3430E	30	
T6BD	T6BD	Denmark	54.8870N	11.2550E	8	
T6BG	T6BG	Germany	53.3800N	9.5950E	50	
T6MG	T6MG	Germany	54.4870N	11.0140E	2	
T7BD	T7BD	Denmark	56.4560N	9.1670E	25	
T7BG	T7BG	Germany	52.2590N	8.5570E	188	
T7MG	T7MG	Germany	54.4290N	11.2290E	15	
T801	T801	Denmark	55.5830N	11.3590E	57	
T802	T802	Denmark	55.3920N	11.8030E	45	
T803	T803	Denmark	55.3230N	12.2760E	19	
T804	T804	Denmark	55.3220N	11.3400E	31	
T805	T805	Denmark	55.1080N	11.9860E	15	
T806	T806	Denmark	54.8060N	12.0360E	11	
T807	T807	Denmark	54.7550N	11.2230E	1	
T808	T808	Denmark	54.6880N	11.6410E	16	
T809	T809	Denmark	54.8040N	10.7200E	15	
T810	T810	Denmark	55.0710N	10.8870E	20	
T811	T811	Denmark	55.6800N	12.4290E	13	
T812	T812	Denmark	56.0080N	12.4750E	30	
T813	T813	Denmark	55.8000N	11.9390E	34	
T814	T814	Denmark	55.5730N	11.7060E	38	
T815	T815	Denmark	54.9890N	12.5050E	83	
T816	T816	Denmark	54.5880N	11.9430E	2	
T817	T817	Denmark	54.8010N	11.5200E	5	
T818	T818	Denmark	55.0070N	10.5870E	11	
T819	T819	Denmark	55.1900N	10.7680E	35	
T820	T820	Denmark	55.4510N	11.2340E	11	
T897	T897	Sweden	58.3800N	12.5090E	52	
T898	T898	Sweden	57.0680N	13.4850E	163	
T899	T899	Denmark	55.7560N	13.2350E	61	
T8MG	T8MG	Denmark	54.2210N	10.8850E	30	
T998	T998	Denmark	56.0120N	12.4790E	24	
T999	T999	Denmark	56.0670N	12.2330E	19	
T9BG	T9BG	Germany	52.7230N	11.4790E	85	
T a@11 Lat	DLV	Vietnam	11.9433N	108.4867E	1575	
T a@11 Lat	DLVO	Vietnam	11.9652N	108.4815E	1550	From 1982-01-01
TA2, Sparta	U55A	North Carolina,U.S.A.	36.5023N	81.0472W	863	From 2013-02-21
Taal Volcano	CALP	Luzon,Philippines	13.9990N	121.0090E		
Tabaga	TBGR	Sakha,Russia	61.8210N	129.6370E	100	From 2003-06-24
Tabalakh	TBK	Sakha,Russia	67.5380N	136.5220E	200	From 1980-07-01 to 1995-02-01
Tabas	TABS	Iran	33.6490N	57.1190E	1106	From 2008-09-10
Tabasco	LJS	Tabasco,Mexico	17.9930N	93.4880W		
Tabat	TBTR	Krasnoyarskiy Kray,Russia	52.9291N	90.7201E	518	From 2005-05-27
Tabatinga, AM	TBTG	Amazonas	4.1868S	69.9090W	91	From 2014-08-31
Tabele	TBL	Papua New Guinea	4.1013S	145.0120E	180	From 1964-01-01
Tabernacle	TABN	New Jersey,U.S.A.	39.8642N	74.6628W	31	From 1977-06-17 to 1978-08-31
Tabernacle Mountain	TABB	British Columbia,Canada	51.7500N	117.7620W	2469	From 1972-10-18 to 1999-08-25
Table Mountain	TABL	Alaska,U.S.A.	60.4403N	141.1423W	2050	
Table Mountain	OTBM	California,U.S.A.	39.5457N	121.5610W	219	From 1975-09-06
Table Mountain	TBM	Washington,U.S.A.	47.1695N	120.5980W	1064	
Table Mountain	TMC	California,U.S.A.	34.3750N	117.6930W	2180	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Table Rock	TBR	New York,U.S.A.	41.1417N	74.2222W	261	From 1975-07-01
Table Rock, Ramapo, NY	TRNY	New York	41.1450N	74.2244W	270	From 2014-09-04
Tabor	N35A	Iowa,U.S.A.	40.8612N	95.6425W	353	From 2010-05-15 to 2012-04-21
Tabri@18z	TAB	Iran	38.0675N	46.3267E	1430	From 1965-08-10
Tabriz	ITBZ	Iran	38.2333N	46.1470E	1650	From 1995-08-01
Tabubil	TABU	Papua New Guinea	5.2690S	141.2228E	544	From 2013-03-27
Tabubil	TZZ	Papua New Guinea	5.2681S	141.2210E	700	From 1977-11-16
Tabubil	OKTD	Papua New Guinea	5.3484S	141.2917E	518	From 1994-01-01
Tabuk	TBKS	Saudi Arabia	28.2200N	36.5400E	295	
Taburiente	TBT	Canary Islands,Spain	28.6794N	17.9145W	180	From 1974-11-01
TACA	TACA	Bolivia	18.8279S	66.7331W	3810	From 1994-05-30 to 1995-08-09
Tacachico	TACO	El Salvador	13.9703N	89.3539W	355	From 2014-06-02
Tacana	TCG	Guatemala	15.1228N	92.0858W	3100	From 1986-07-01
Tacaratu-PE	NBTA	Pernambuco,Brazil	9.1218S	38.0632W	348	From 2011-07-27
Tacares	TCSO	Costa Rica	10.0420N	83.3000W	889	
Ta-ch'eng	WTCT	Taiwan region	23.8640N	120.2810E	4	
Tachien	TWT	Taiwan region	24.2533N	121.1758E	1510	From 1973-10-04
Tacoma Substation	TBPA	Washington,U.S.A.	47.2581N	122.3669W	2	
Tacubaya	TAC	Mexico D.F.,Mexico	19.4050N	99.1936W	2297	
Tadjoura	TDJ	Djibouti	11.7955N	42.8888E	60	From 1972-04-01 to 1979-08-31
Tadjoura Ara	TDD	Djibouti	11.8037N	42.9070E	110	From 1979-09-01
Tadong	GTK	Sikkim,India	27.3191N	88.6018E	1348	
Tadotsu	TAD	Kagawa,Japan	34.2833N	133.7670E	4	
Tadoussac	TADQ	Quebec,Canada	48.1437N	69.7184W	46	From 1979-05-24
Taebaek	KSTBA	Republic of Korea	37.1226N	128.9523E	802	From 2006-12-30
Taegu	TAE	Republic of Korea	35.8667N	128.6000E	50	
Taejon	TJN	Republic of Korea	36.3772N	127.3638E	60	
Tafers	STAF	Switzerland	46.8052N	7.2161E	650	From 2008-04-16
Taforalt	TAF	Morocco	34.8142N	2.4142W	820	From 1972-11-01
Taft	TF-	California,U.S.A.	35.1636N	119.9675W	793	From 1962-05-23 to 1965-11-13
Taft	TF-CL	California,U.S.A.	35.1636N	119.9675W	793	From 1962-05-23 to 1965-11-13
Taga	JTG	Shiga,Japan	35.1867N	136.3217E	160	
Tagaytay City	TGY	Luzon,Philippines	14.1022N	120.9367E	600	From 1991-01-01
Tagbilaran	TBP	Cebu,Philippines	9.6910N	123.8620E	120	
Tagebau Bergheim	BD02	Nordrhein-Westfalen,Germany	50.9679N	6.6743E	115	From 2001-01-01 to 2007-08-29
Taghat	TGT	Morocco	34.0700N	5.0550W	820	From 1993-01-01
Taghi Ghambar	TGI	Iran	32.9633N	59.1933E	1800	From 1975-05-01
Tahiti	TAH	Tahiti,French Polynesia	17.7333S	149.3000W		
TAHITI-TARAVAO INFRASONIC ARRAY REFERENCE POINT	C4FP	Tahiti,French Polynesia	17.7493S	149.2958W	117	From 2000-03-11
Tahkenitch	TAKO	Oregon,U.S.A.	43.7435N	124.0812W	46	
Tahoe	TAHR	California,U.S.A.	39.1515N	120.1630W	2079	
Tahtakopru-Hatay	TAHT	Turkey	36.3757N	36.1852E	266	From 2009-10-19
Tahuroa Road	TOZ	North Island,New Zealand	37.7309S	175.5019E	85	From 1998-10-15
Taian	SANB	Taiwan region	24.3978N	120.9858E	1354	From 2005-04-20
Tai'an	TIA	Shandong,China	36.2114N	117.1240E	300	
Taichung	TCU	Taiwan region	24.1475N	120.6760E	84	
Taichung City	WHP	Taiwan region	24.2777N	120.9458E	832	From 2013-03-18
Taichung Port	TCUP	Taiwan region	24.2560N	120.5230E	0	From 2001-04-10
Taif	TAF1	Saudi Arabia	21.2830N	40.3500E	2500	From 1995-04-01
Taimali	ECL	Taiwan region	22.5970N	120.9540E	70	
Taimylyr	TML	Sakha,Russia	72.6100N	121.9200E	60	From 1986-01-01 to 1996-10-01
Tainan	TAI	Taiwan region	22.9952N	120.1970E	14	
Tainan City	TAI2	Taiwan region	22.9870N	120.2100E	30	From 1999-08-04
Tainan City	SNST	Taiwan region	23.2198N	120.4973E	156	From 2013-01-18
Taipa Grande	MCO	Macao,China	22.1219N	113.5580E	80	
Taipei	TATO	Taiwan region	24.9754N	121.4880E	53	From 1976-05-13
Taipei	TAP	Taiwan region	25.0393N	121.5060E	6	
Taipei	TAP1	Taiwan region	25.0390N	121.5230E	-80	
Taisha	TAIS	Ecuador	2.3804S	77.4997W	442	From 2012-11-16
Taitung	TTN	Taiwan region	22.7540N	121.1470E	9	
Taivalkoski	KU2	Finland	65.7096N	28.2300E	290	From 2003-11-05
Taiyuan	TIY	Shanxi,China	37.7131N	112.4340E	850	
Taiyuan	TYN	Shanxi,China	37.7867N	112.5900E		
Ta'izz	TAIZ	Yemen	13.5680N	44.0470E	0	
Takachiho West	KV11	Kagoshima,Japan	31.8839N	130.8989E	980	
Takada	TKJ	Niigata,Japan	37.1280N	138.2100E	40	From 1971-01-01
Takada	TKD	Niigata,Japan	37.1050N	138.2500E	15	
Taka-dake	TAKK	Kumamoto,Japan	32.8787N	131.1015E	1450	
Takaka	TAK	South Island,New Zealand	40.8499S	172.8044E	8	From 1931-01-01 to 1968-11-30
Takamatsu	TKM	Kagawa,Japan	34.3150N	134.0567E	10	
Takane	TKN	Gifu,Japan	35.9824N	137.5122E	1310	
Takapari Road	TSZ	North Island,New Zealand	40.0585S	175.9612E	531	From 2004-01-26
Takarajima	JTAJ	Ryukyu Islands,Japan	29.1532N	129.2030E	35	From 2010-02-01
Takato	JNT	Yamanashi,Japan	35.8750N	138.1380E	1180	From 1995-04-01
Takayama	TAKN	Gifu,Japan	36.1328N	137.1842E	700	
Takayama	TKY	Gifu,Japan	36.1533N	137.2567E	560	
Takayasuyama	TKU	Osaka,Japan	34.6117N	135.6600E	472	
Takazaki	JTZ	Miyazaki,Japan	31.9012N	131.0880E	170	
Takazawasan	TKZ	Gifu,Japan	35.5430N	136.9754E	260	
Take-yama	TKE	Kanagawa,Japan	35.2170N	139.6669E	112	
Takhtoyamsk	TTY	Magadanskaya Oblast',Russia	60.2020N	154.6790E	11	From 1987-09-01 to 1993-06-01
Talagante	TACH	Santiago,Chile	33.6532S	70.9376W	440	From 1982-01-01
Talagante	MT09	Metropolitana	33.7762S	70.9887W	1371	From 2014-10-15
Talang	TLN	Sumatera,Indonesia	1.0000S	100.5000E		
Tala Pozo	TPA	Santiago del Estero,Argentina	27.8217S	64.2450W	177	
Talara	TAL	Peru	4.6317S	81.3067W	40	
Talasea	TLS	New Britain,Papua New Guinea	5.3097S	150.0450E	40	From 1972-09-01
Talaya	TLAR	Magadanskaya Oblast',Russia	61.1297N	152.3978E	730	
Talaya	TLY	Irkutskaya Oblast',Russia	51.6807N	103.6438E	579	
Talbingo	TAO	New South Wales,Australia	35.6109S	148.2890E	570	From 1969-01-01
Talbot Arm	YUK4	Yukon Territory,Canada	61.3448N	138.6462W	2009	From 2010-08-29
Talbot Brook	WA3	Western Australia,Australia	32.0517S	116.6430E	276	From 1973-01-01
Talca	TALC	Maule,Chile	35.3980S	71.6340W	90	
Talchebab	TCHB	Syria	32.6692N	35.9688E	458	From 1995-02-01
Talcott Mountain	TMT	Connecticut,U.S.A.	41.8114N	72.7989W	290	From 1972-01-07 to 1977-06-10
Taldyqorghan	TDK	Kazakhstan	45.0020N	78.4060E	540	From 1975-04-20
Talgar	AA2	Kazakhstan	43.2300N	77.2300E		
Talgar	TLG	Kazakhstan	43.2300N	77.2300E	850	From 1994-07-27
Talgar	AAB	Kazakhstan	43.2330N	77.2250E	1120	From 1961-08-31 to 1998-01-01
Taliwang, Sumbawa	TWSI	Sumba,Indonesia	8.7381S	116.8821E	86	From 2008-12-01
Talkeetna Mountains	TLK	Alaska,U.S.A.	62.4938N	147.8780W	1719	From 1974-07-10 to 1975-11-11
Talkin	BTA	England,United Kingdom	54.9057N	2.6844W	279	
Talladega	TDA	Alabama,U.S.A.	33.5417N	86.0247W	181	
Tallapoosa	TPMO	Missouri,U.S.A.	36.5400N	89.8520W	83	
Tallapoosa	TOPM	Missouri,U.S.A.	36.5259N	89.8885W	80	
Tallong	TLNG	New South Wales,Australia	34.7152S	150.0846E	600	From 2011-02-17
Tallowa	TALM	New South Wales,Australia	34.7709S	150.3809E	290	
Tallowa Pump Stn	TALL	New South Wales,Australia	34.7334S	150.4615E	68	
Tall Timber Ranch, Leavenworth	C06A	Washington,U.S.A.	47.9230N	120.8944W	594	From 2006-09-13 to 2008-05-16
Talmassons	TLI	Italy	45.9217N	13.1019E	-49	From 1985-11-27
Talon	TONS	Magadanskaya Oblast',Russia	59.7570N	148.6610E	20	From 2001-01-01 to 2001-02-28
Taloyoak	SBNU	Nunavut,Canada	69.5405N	93.5571W	78	
Talsperre Zeulenoda	ZEU	Thuringen,Germany	50.6707N	11.9771E	346	From 2012-10-01
Tal'yany, Baikal	TANS	Irkutskaya Oblast',Russia	52.2000N	103.3000E	600	
Tal-Yuryakh	TURS	Magadanskaya Oblast',Russia	63.3070N	146.6340E	900	From 2001-03-01 to 2001-06-30
Tal-Yuryakh Coal Mine	SS62	Magadanskaya Oblast',Russia	63.3281N	146.2810E	940	From 2009-08-19
Tamagu	JJT	Ryukyu Islands,Japan	26.1495N	127.7667E	188	
Tamagusuku 2	JJT2	Ryukyu Islands,Japan	26.1423N	127.7468E	200	
Tamagusuku3	JJT3	Ryukyu Islands,Japan	26.1437N	127.7837E	138	From 2012-03-22
Tamana	JTA	Kumamoto,Japan	32.9637N	130.5328E	230	
Tamanrasset	TAM	Algeria	22.7917N	5.5233E	1395	From 1948-01-01
Tamaro	TMA	Switzerland	46.1060N	8.8730E	1700	From 1981-01-01 to 2002-01-02
Tamasi	PKS9	Hungary	46.5870N	18.2789E	240	
Tambak Boyo	TBJI	Jawa,Indonesia	6.8179S	111.8481E	0	From 2007-12-01
Tambo	TAMB	Ecuador	0.6942S	78.3680W	4160	From 1990-08-10
Tambohuasha Chimborazo	TAMH	Ecuador	1.5430S	78.7800W	3674	From 2012-07-17
Tambo Quemado	BB04	Bolivia	18.2787S	69.0062W	4420	From 2012-01-20
Tam Dao	TDV	Vietnam	21.4647N	105.6457E	1200	
Tamdy-Bulak	TMD	Uzbekistan	41.7500N	64.6400E	273	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Tame, Arauca	TAMC	Colombia	6.4355N	71.7913W	457	From 2012-06-01
Tamitsa	TMCR	Arkhangel'skaya Oblast',Russia	64.1643N	38.0352E	23	From 2003-11-28
Tampico	TMX	Tamaulipas,Mexico	22.2550N	97.8506W	21	
Tamra	TAMR	Tunisia	37.0469N	9.1091E	93	From 2010-01-10
Tamworth	I62A	New Hampshire,U.S.A.	43.8743N	71.3359W	264	From 2013-09-07
Tanabenakahechi	JTNC	Wakayama,Japan	33.8185N	135.6108E	337	From 2011-11-01
Tanabu	TNB	Aomori,Japan	41.2833N	141.2170E		
Tanaga Cape Sajaka	TACS	Alaska,U.S.A.	51.8632N	178.1394W	918	
Tanaga Falls Point	TAFP	Alaska,U.S.A.	51.9001N	177.9833W	440	
Tanaga Flats	TAFL	Alaska,U.S.A.	51.7566N	177.8978W	186	
Tanaga North	TANO	Alaska,U.S.A.	51.9157N	178.1208W	269	
Tanaga Point Aries	TAPA	Alaska,U.S.A.	51.8155N	177.8128W	640	
Tanaga Southeast	TASE	Alaska,U.S.A.	51.8350N	178.0370W	682	
Tana Glacier	TGL	Alaska,U.S.A.	60.7558N	142.8300W	1234	From 1988-07-01
Tanaharon	THRI	Bali,Indonesia	8.3694S	115.5430E	1000	
Tanaka	TKA	New Britain,Papua New Guinea	4.3449S	152.1780E	365	
Tanana	TNN	Alaska,U.S.A.	65.2567N	151.9120W	504	
Tananarive	TAN	Madagascar	18.9169S	47.5519E	1375	From 1973-01-01
Tana Toraja	TTSI	Sulawesi,Indonesia	3.0451S	119.8190E	0	From 2007-12-01
Tanbara	JET	Ehime,Japan	33.7788N	133.0487E	410	
Tanegashima	TAJ	Ryukyu Islands,Japan	30.7367N	130.9933E	17	From 1970-07-01
Tanegashima 2	TAJ2	Ryukyu Islands,Japan	30.6350N	130.9800E	280	From 1984-08-01
Tanegashima 3	JTN	Ryukyu Islands,Japan	30.6543N	130.9797E	240	
Tanete Lipujang	TANI	Sulawesi,Indonesia	3.4361S	119.3830E	230	
Tangerang	TNG	Jawa,Indonesia	6.1717S	106.6462E	14	
Tangkuban Prahu	TPJ	Jawa,Indonesia	6.7667S	107.6000E		From 1969-01-01 to 1999-08-25
Tanjungpandan	TPI	Sumatera,Indonesia	2.7563S	107.6534E	25	
Tanjung Pinang	TPRI	Sumatera,Indonesia	0.9184N	104.5263E	41	From 2005-01-01
Tanna	TANV	Vanuatu	19.5326S	169.2795E	100	
Tannan	TNJ	Kyoto,Japan	35.0314N	135.2136E	310	
Tannehill State Park	TSAL	Alabama,U.S.A.	33.2561N	87.0675W	180	
Tannenbergsthal	TANN	Sachsen,Germany	50.4149N	12.4616E	836	From 2000-12-19
Tanohata	JTH	Iwate,Japan	39.9387N	141.8637E	200	
Tanti	TCA	Cordoba,Argentina	31.3370S	64.5954W	1035	From 1980-01-03
Tanto	TTOK	Hyogo,Japan	35.5065N	134.9772E	190	
Tanzanite One Mining	SIMG	Tanzania,United Republic of Tanzania	3.5623S	37.0257E	1092	
Tapachula	TLA	Chiapas,Mexico	15.0289N	92.2000W		
Tapachula	TPX	Chiapas,Mexico	14.9050N	92.2611W	150	From 1984-01-01
Tapar	TAPR	Gujarat,India	23.2090N	69.6635E	120	From 2012-01-01
Tapini	TPN	Papua New Guinea	8.3569S	146.9840E	989	
Taplejung	TAPN	Nepal	27.3500N	87.7100E	2530	From 1994-04-01
Tapovan	TPVN	Himachal Pradesh,India	30.4964N	79.6113E	2110	From 2007-05-01
TAPS Pump St10	PS10	Alaska,U.S.A.	63.4233N	145.7684W	732	
TAPS Pump St11	PS11	Alaska,U.S.A.	62.0793N	145.4730W	377	
TAPS Pump St12	PS12	Alaska,U.S.A.	61.4754N	145.1438W	568	
TAPS Pump Stn	PS01	Alaska,U.S.A.	70.2582N	148.6108W	2	
TAPS Pump Stn4	PS04	Alaska,U.S.A.	68.4218N	149.3538W	851	
TAPS Pump Stn5	PS05	Alaska,U.S.A.	66.8114N	150.6619W	331	
TAPS Pump Stn6	PS06	Alaska,U.S.A.	65.8549N	149.7344W	280	
TAPS Pump Stn7	PS07	Alaska,U.S.A.	65.3106N	148.2791W	290	
TAPS Pump Stn8	PS08	Alaska,U.S.A.	64.5426N	146.8196W	320	
TAPS Pump Stn9	PS09	Alaska,U.S.A.	63.9303N	145.7659W	478	
TAPS TI Valdez	VMT	Alaska,U.S.A.	61.0832N	146.3673W	60	
Ta-pu	TPUB	Taiwan region	23.3005N	120.6296E	370	
Ta-pu	WTP	Taiwan region	23.2460N	120.6140E	560	
Tara	ETA	Ireland	52.6958N	6.2100W	140	From 1982-03-01
Taradale	TRZ	North Island,New Zealand	39.5515S	176.8215E	17	From 1969-03-20 to 1988-05-25
Taradale Trig	TTH	North Island,New Zealand	39.5395S	176.8264E	120	From 1987-03-19 to 2003-07-26
Tarade	TAG	Guadeloupe,France	16.0420N	61.6642W	1182	
Taragay, Kyrgyzstan	TARG	Kyrgyzstan	41.7291N	77.8048E	3528	From 2008-08-14
Tara Hills	THP	South Island,New Zealand	44.5433S	169.8881E	760	From 1975-06-18 to 1984-01-22
Tarakan	TARAI	Kalimantan,Indonesia	3.3271N	117.5703E	95	From 2000-01-01
Tarama	JTJ	Ryukyu Islands,Japan	24.6408N	124.7020E	7	
Taranto	TAR1	Italy	40.5259N	17.2843E	75	From 2009-09-01
Taranto	TTI	Italy	40.4096N	17.2833E	20	From 1977-01-01 to 1999-08-25
Taranto	TA1	Italy	40.4096N	17.2833E		From 1977-01-01 to 1999-08-25
Taranto	TAR	Italy	40.4750N	17.2583E	15	
Taraponui	TAHZ	North Island,New Zealand	39.1340S	176.7405E	1297	From 1987-03-19 to 1997-08-18
Tarata	TNZ	North Island,New Zealand	39.1854S	174.3805E	123	From 1962-05-07 to 1985-07-27
Taravao	TVO	Tahiti,French Polynesia	17.7825S	149.2517W	620	
Tarawa	TARA	Kiribati (Gilbert Islands),Kiribati	1.3549N	172.9229E	19	
Tarawera	TAZ	North Island,New Zealand	38.2312S	176.5080E	1037	From 1984-07-18 to 2007-12-18
Taraz	DZA	Kazakhstan	42.8920N	71.3310E	631	
Tarbela	TAR2	Pakistan	34.0510N	72.6980E	396	From 1973-08-23
Tarbela	TRB	Pakistan	34.0828N	72.7157E	532	
Tarbella	TBLA	Pakistan	34.1000N	72.8000E	392	From 2010-06-12
Tardaria	ETAR	Sicily,Italy	37.6630N	15.0590E	940	From 2001-07-01
Targassone	TRGS	Languedoc-Rousillon,France	42.5022N	1.9667E	1700	
Tarifa	EXTA	Spain	36.0120N	5.6010W	28	
Tarija	TRJ	Bolivia	21.5131S	64.7761W	2100	
Taroona High School, Taroona	AUTAR	Tasmania,Australia	42.9400S	147.3600E	25	From 2013-10-01
Tarpa	TRPA	Hungary	48.1304N	22.5391E	113	From 2006-11-01
Tarquinia - VT	TO07	Italy	42.2714N	11.7888E	188	From 2008-07-15 to 2009-10-18
Tarquinia - VT	TO06	Italy	42.2015N	11.8360E	96	From 2008-05-14 to 2009-04-02
Tarraleah	TRR	Tasmania,Australia	42.3042S	146.4500E	579	From 1960-01-01 to 2009-09-03
Tarraleah	LEAH	Tasmania,Australia	42.3027S	146.4516E	590	
Tartu	TTU	Estonia	58.3833N	26.7167E		
Tartu	TRTE	Estonia	58.3786N	26.7205E	100	
Tarutung	TRSI	Sumatera,Indonesia	2.0256N	98.9594E	979	From 2005-01-01
TASBURUN-IGDIR	TASB	Turkey	39.9838N	44.2384E	849	From 2011-10-30
Tashiro 2	JTSR	Kagoshima,Japan	31.1663N	130.9217E	430	
Tashkent	TAS	Uzbekistan	41.3293N	69.2857E	472	From 1901-01-01
Tashtagol	TASR	Kemerovskaya Oblast',Russia	52.7600N	87.8800E	530	
Taskesti	BTAS	Turkey	40.5706N	30.9999E	732	From 2009-11-20
Taslik	TST	Turkey	40.2483N	28.3733E	35	From 1978-11-01 to 1999-08-25
Tasmania University	TAU	Tasmania,Australia	42.9099S	147.3200E	132	From 1957-01-01
Tasoluk	AYDN	Turkey	37.6608N	27.8792E	716	From 2002-12-20
Tassajara Creek	PTAM	California,U.S.A.	35.3925N	120.7078W	802	
Tasu	TSUB	British Columbia,Canada	52.7551N	132.0415W	314	From 2012-11-07
Tasu	TSB	British Columbia,Canada	52.7650N	132.0330W	30	From 1984-04-13
Tatalina	TTA	Alaska,U.S.A.	62.9301N	156.0120W	990	
Tatalina	TT01	Alaska,U.S.A.	62.9066N	156.0204W	380	
Tatalina	TTL	Alaska,U.S.A.	62.8986N	155.9760W		
Tatama	TATC	Colombia	5.1267N	75.9969W	2200	
Tataouine	TATN	Tunisia	32.5787N	10.5295E	550	From 2010-01-10
Tateyama	TYM	Chiba,Japan	34.9708N	139.8481E	30	
Tateyama	TAT	Chiba,Japan	34.9833N	139.8680E	6	
Tateyama 2	TATJ	Chiba,Japan	35.0317N	139.8902E	40	From 1990-05-10
Tathlith	TATS	Saudi Arabia	19.5416N	43.4773E	1123	
Tatla Lake BC	TALB	British Columbia,Canada	52.0147N	124.2536W	1122	From 2006-08-28
Tatong	TATM	Victoria,Australia	36.7747S	146.1061E	342	
Tatsuka	TATH	Iburi,Japan	42.5305N	140.8838E	140	
Tatum	Z27A	New Mexico,U.S.A.	33.3150N	103.2145W	1197	From 2008-04-17 to 2010-03-04
Tatum Dome	TQ-MS	Mississippi,U.S.A.	31.1328N	89.5711W	130	
Tatvan	TATV	Turkey	38.5080N	42.2672E	1831	From 2006-10-19 to 2011-11-11
Tauisk	TAUS	Magadanskaya Oblast',Russia	59.7290N	149.3350E	5	From 2001-01-01 to 2001-04-30
Tau Lekoa	TLEK	South Africa	26.9620S	26.6710E	1307	From 2008-06-30
Tau Lekoa	TAUL	Transvaal,South Africa	26.9960S	26.6090E	1350	From 2008-04-07
Taunus Mts	TNS	Hessen,Germany	50.2225N	8.4473E	815	From 1913-01-01
Tauranga	TGRZ	North Island,New Zealand	37.7288S	176.2609E	145	From 2003-02-18
Taurewa	TWVZ	North Island,New Zealand	39.0707S	175.4377E	1084	From 2004-05-18
Tausa, Cundinamarca	CTAU	Colombia	5.2030N	74.0443W	3868	From 2010-08-10
Tautenburg	TAUT	Thuringen,Germany	50.9816N	11.7107E	330	From 2008-05-16
Tauwhareparae	TWGZ	North Island,New Zealand	38.1767S	177.9804E	627	From 2009-12-09
Tauyuan	STYT	Taiwan region	23.1630N	120.7570E	640	
Tavarnelle	TAV1	Italy	43.5890N	11.1431E	285	From 2014-12-19
Tavernes	TAVF	Provence-Cote d'Azur,France	43.6173N	6.0578E	689	From 1982-11-01
Taveuni	TVI	Fiji	16.9259S	179.9590E	814	From 1981-11-01
Tavil'dara	TDT	Tajikistan	38.6833N	70.4833E	1670	

Station Name	Code	Location	Geographical Co-ordinates	Altitude m	Remark
Tavsanli	TVSB	Turkey	39.4497N 29.4615E	1090	From 2009-02-12
Tavurvur	TAV	New Britain,Papua New Guinea	4.2312S 152.2200E	31	From 1967-01-01
Tawang	TAWA	Arunachal Pradesh,India	27.5938N 91.8668E	2979	From 2011-06-11
Tawau	TSM	Sabah,Malaysia	4.2936N 117.8725E	62	
Tawu	TAW	Taiwan region	22.3576N 120.8960E	8	
Tawu	TWJ1	Taiwan region	22.3696N 120.8838E	150	From 1978-01-13
Taxiarchis Harbor, Nea Kameni, Santorini I..	STAX	Greece	36.3993N 25.4045E	20	From 2012-03-30
Tayabas	TQP	Luzon,Philippines	13.8989N 121.8660E	300	
Tayabas	TAY	Luzon,Philippines	13.8990N 121.8660E	300	
Tayfur-Gelibolu	GELI	Turkey	40.3980N 26.4741E	129	From 2008-07-05
Taylor	NTYM	California,U.S.A.	38.3895N 122.6620W		
Taylor	CTAM	California,U.S.A.	38.0269N 122.0160W	152	
Taylor Creek Farms, Clarkson	M33A	Nebraska,U.S.A.	41.5726N 97.1950W	503	From 2010-06-16 to 2012-04-23
Taylor Farm	CTFL	California,U.S.A.	37.6463N 121.6720W	295	From 1981-01-01
Taylor Mountain	NTMM	California,U.S.A.	38.3858N 122.6800W	105	From 1970-08-14
Taylor Mountain	TMI	Idaho,U.S.A.	43.3056N 111.9180W	2179	
Taylor Ranch	PK3	California,U.S.A.	35.9455N 120.4740W	552	From 1967-01-12
Taylor Ranch	PTYM	California,U.S.A.	35.9455N 120.4740W	552	From 1967-01-12
Taylor Ranch	TRC	California,U.S.A.	35.9455N 120.4740W	552	From 1967-01-12
Taylorsville	V55A	North Carolina,U.S.A.	35.8518N 81.2149W	306	From 2013-02-17
Taylorsville	TVNC	North Carolina,U.S.A.	36.0331N 81.2131W	731	
Tayyib Ism	TAYS	Saudi Arabia	28.5511N 34.8717E		
Tazeka	TZK	Morocco	34.0890N 4.1840W	1980	From 1993-01-01
Tazercounte	TZC	Morocco	32.1480N 6.4900W	1700	
Tazewell	TZTN	Tennessee,U.S.A.	36.5439N 83.5490W	394	From 2005-02-23
Tazewell	T54A	Virginia,U.S.A.	37.0608N 81.5762W	852	From 2013-01-30
Tazlina	TZL	Alaska,U.S.A.	62.0445N 145.4240W	366	From 1990-07-01
TBBG	TBBG	Germany	52.8700N 10.6320E	120	
T'bilisi	TIF	Georgia,Georgia	41.7167N 44.8000E	399	From 1899-01-01 to 1978-12-31
Tbilisi Sea	SEAG	Georgia,Georgia	41.7643N 44.8034E	607	From 2003-01-01
Tchakhmakh	TCHZ	Armenia	40.9000N 43.7000E	1860	
Teagarden Farms, La Cygne	R37A	Kansas,U.S.A.	38.3133N 94.8294W	298	From 2010-03-24 to 2012-03-03
Teanaway	TWW	Washington,U.S.A.	47.1381N 120.8680W	1046	From 1986-10-01
Teasdale	R16A	Utah,U.S.A.	38.2843N 111.4827W	2202	From 2007-06-26 to 2009-03-10
Tea Tree Gully	UTT	South Australia,Australia	34.8215S 138.7367E	300	
Te Atua	TEHZ	North Island,New Zealand	39.9877S 176.8114E	407	From 1987-03-19 to 1997-08-04
Tecamachalco	TCPM	Puebla,Mexico	18.8900N 97.6894W		
Tecapa	TECA	El Salvador	13.4945N 88.5023W	1603	
Tecapa	TCPZ	El Salvador	13.4890N 88.5070W	1594	
Tecate	TKX	Baja California,Mexico	32.5687N 116.6075W	541	
Techi	TDCB	Taiwan region	24.2531N 121.1583E	1295	
Technical University Creta	CH03	Crete,Greece	35.5330N 24.0705E	112	From 2013-08-01
TEC LaTrobe	TECM	Victoria,Australia	37.7245S 145.0555E	156	
Tecnologico de Monterrey	TMM	Nuevo Leon,Mexico	25.7505N 100.2029W	585	
Tecnologico de Monterrey 2	TMM2	Nuevo Leon,Mexico	25.6992N 100.2663W		
Tecolote Peak, Malaga	226B	New Mexico,U.S.A.	32.0778N 104.1654W	981	From 2009-02-21 to 2010-02-17
Tecomasuche	TME	El Salvador	14.0169N 89.3556W	516	
Tecpan	TEP	Guatemala	14.7878N 90.9715W	1640	From 1978-06-01
Tecpan 2	TP2	Guatemala	14.7833N 91.0213W	3075	From 1982-01-01
Tecpatan	TCX	Chiapas,Mexico	17.1330N 93.2950W	471	From 1979-12-01
Tecumseh	W35A	Oklahoma,U.S.A.	35.1527N 96.8745W	322	From 2010-04-15 to 2012-02-01
Teekin	TEK	Tonga	21.1297S 175.3220W	20	From 1970-10-01
Teeli	TEL	Tyva,Russia	51.0200N 90.2000E	980	
Teeples Ranch	TEE	Montana,U.S.A.	48.3795N 115.5880W	805	From 1971-02-01 to 1976-10-04
Tegal	TGJI	Jawa,Indonesia	6.8679S 109.1210E	44	From 2005-01-01
Teggiano - Istituto P. Leto	TEGI	Italy	40.3799N 15.5365E	568	
Tegucigalpa,Univ of Honduras	TGUH	Honduras	14.0570N 87.2730W	0	
Tehachapi Microwave	THC	California,U.S.A.	34.9087N 118.6630W	1718	
Tehra@18n	THR	Iran	35.9080N 51.1260E	2050	From 2000-08-01
Tehran	TEH	Iran	35.7367N 51.3817E	1462	
Tehran--Karaj	THKV	Iran	35.9157N 50.8788E	1795	From 1999-04-24
Tehuac#an	TPIG	Mexico	18.4195N 97.3617W	1488	From 2002-10-10
Tejag	ITEG	Iran	32.8965N 58.7488E	1745	From 2005-12-01
Tejeda	ATEJ	Spain	36.9150N 4.0140W	1480	
Tejon Ranch	TJR	California,U.S.A.	35.0275N 118.7430W	439	
Te Kaha	HAZ	North Island,New Zealand	37.7561S 177.7826E	20	From 2010-01-14
Te Karaka	TKGZ	North Island,New Zealand	38.4392S 177.8485E	98	From 2010-03-13
Tekeli-Mersin	TEKE	Turkey	36.1427N 33.1141E	172	From 2011-07-01
Tekeris	TEKS	Serbia	44.5492N 19.5287E	500	From 2008-12-29
Tekirdag	TDAG	Turkey	40.9903N 27.5344E	148	From 1996-04-01 to 1997-02-26
Tekirdag	TKR	Turkey	40.9902N 27.5357E	140	
Tekirdag	SART	Turkey	40.6889N 27.1800E	800	From 1997-02-27
Tekketepe	TKTP	Turkey	38.0400N 30.3200E	1788	From 1996-04-01
Telchick Spring	TCSI	Idaho,U.S.A.	43.6193N 113.4780W	1731	From 1992-01-01
Telegraph Cove	TLCB	British Columbia,Canada	50.5465N 126.8345W	10	From 2004-12-20
Telegraph Creek	TCBC	British Columbia,Canada	57.9231N 131.2820W	1356	From 1989-10-10
Telford	O60A	Pennsylvania,U.S.A.	40.3177N 75.4050W	70	From 2013-04-28
Telica	TELN	Nicaragua	12.6042N 86.8313W	850	
Telica 3	TEL3	Nicaragua	12.5722N 86.8448W	300	
Teller	TLR	Alaska,U.S.A.	65.3183N 166.2117W	122	From 1980-01-01 to 1983-01-01
Tellico Plains	TLT	Tennessee,U.S.A.	35.3011N 84.2833W	512	
Telus,Franklin R.	TFRB	British Columbia,Canada	48.9332N 124.6363W	0	From 2004-05-28
Tema	TEGH	Ghana	5.6367N 0.0014W	14	From 1987-01-01
Te Maipa	TMWZ	North Island,New Zealand	41.1066S 175.8905E	529	From 2007-02-23
Temblor Range Southeast	TMB	California,U.S.A.	35.0873N 119.5350W	1021	From 1976-06-01
Temeni, Aigialia, West Greece	TEME	Greece	38.2317N 22.1181E	-56	From 2000-03-15
Temiscaming	JBBQ	Quebec,Canada	46.7751N 78.9632W	278	From 2001-12-04
Temiscaminque	MLQ2	Quebec,Canada	46.6814N 78.9907W	299	
Temiskaming	TMK	Quebec,Canada	46.6667N 79.0667W		
Tempiute Mountain	TPU	Nevada,U.S.A.	37.6046N 115.6496W	1964	
Temple University, Ambler	TUPA	Pennsylvania,U.S.A.	40.1663N 75.1864W	112	
Temporary aftershock station near Magadan	ST18S	Magadanskaya Oblast',Russia	59.6640N 150.2010E	18	From 2004-11-01 to 2004-12-01
Temporary station #20	ST20S	Magadanskaya Oblast',Russia	62.8950N 151.7470E	387	From 2005-04-22 to 2005-04-26
Temporary station #21	ST21S	Magadanskaya Oblast',Russia	62.9210N 151.8490E	384	From 2005-04-21 to 2005-04-25
Temporary station #22	ST22S	Magadanskaya Oblast',Russia	62.9050N 151.7420E	398	From 2005-04-15 to 2005-04-17
Temporary station #23	ST23S	Magadanskaya Oblast',Russia	62.8940N 151.7470E	385	From 2005-04-15 to 2005-04-17
Temuco	TMU	Cautin,Chile	38.7344S 72.6006W	100	From 1974-04-01
Temuco	TEM	Cautin,Chile	38.7750S 72.6056W		From 1965-09-01 to 1999-08-25
Temuco	TMCH	Chile	38.7490S 72.6164W	100	
Tena	TENA	Ecuador	0.7327S 77.7622W	1161	From 1994-09-21
Tena	ATEN	Ecuador	1.0069S 77.8113W	522	From 2012-07-14
Tende	OG23	Rhone-Alpes,France	44.1162N 7.6185E	930	From 1989-06-26
Tendick Farm, Oakridge	I04A	Oregon,U.S.A.	43.7941N 122.4113W	731	From 2006-11-03 to 2007-11-01
Tendola (MS)	T0913	Italy	44.1674N 10.0442E	296	From 2013-06-21
Tenerife	TEN	Canary Islands,Spain	28.4643N 16.2454W	1	From 1952-01-01 to 1983-01-31
Tenerife	CTFE	Canary Islands,Spain	28.4794N 16.2622W	270	From 1983-01-01
Tenhult	TNU	Sweden	57.6380N 14.2690E		From 1980-01-01 to 1991-12-31
Tenkeli	TLIS	Sakha,Russia	70.1800N 140.7800E	110	From 1984-01-01 to 1995-01-01
Tenkes	RHK3	Hungary	45.8885N 18.2521E	420	
Tenmabayashi	JTM	Aomori,Japan	40.7868N 141.0682E	130	
Ten Mile Ranch, Cody	K28A	Nebraska,U.S.A.	42.7136N 101.3665W	986	From 2009-06-03 to 2011-04-08
Tennant Creek	WRAB	Northern Territory,Australia	19.9333S 134.3500E	366	From 1994-03-27
Tennessee City	TCT	Tennessee,U.S.A.	36.0053N 87.5528W	245	From 1988-03-10
Tennyson Woods	TWOA	South Australia,Australia	35.0325S 138.5781E	165	From 1978-04-01
Tenryu	TNRJ	Shizuoka,Japan	34.9078N 137.8850E	66	From 1979-04-01
Teolo	TEOL	Italy	45.3600N 11.6700E	370	
Teotitlan	TEO	Oaxaca,Mexico	18.1382N 97.0752W	1060	
Tepee Creek	TPMT	Montana,U.S.A.	44.7298N 111.6660W	2518	From 1992-10-12
Tepee Creek (NFS), Magee	C11A	Idaho,U.S.A.	47.8397N 116.2557W	914	From 2007-08-28 to 2009-07-18
Tepekoy-Mersin	TEPE	Turkey	36.2196N 33.5614E	572	From 2011-07-01 to 2013-12-01
Tepekoy-MERSIN	TEPK	Turkey	36.2241N 33.5450E	574	From 2013-12-29
Tepelena	TPE	Albania	40.2952N 20.0109E	251	From 1984-04-01
Tepich	TEIG	Yucatan,Mexico	20.2263N 88.2764W	69	
Tepoztlan	TPM	Morelos,Mexico	18.9833N 99.0617W	1500	
Tequesquite Ranch, Mosquero	V26A	New Mexico,U.S.A.	35.7964N 103.7860W	1362	From 2008-05-10 to 2010-04-20
Teramo	TERO	Italy	42.6228N 13.6039E	673	From 2003-11-20
Tercis-les-Bains	TERF	Aquitaine,France	43.6788N 1.1133W	50	From 2011-03-25
Ter de Rio Valdez	TRVA	Tierra del Fuego,Argentina	54.6803S 67.3395W	240	
Terek-Say	TRKS	Kyrgyzstan	41.5300N 71.1400E	1640	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Teren Tiev Lake	TTV	Alaska,U.S.A.	61.0548N	147.1210W	533	From 1984-09-18
Terepaima	TEPV	Venezuela	9.9637N	69.1917W	470	From 2002-11-21
Teresina	TRSB	Piaua,Brazil	4.8700S	42.7100W	125	
Terlingua Ranch, Terlingua	627A	Texas,U.S.A.	29.4528N	103.3887W	1163	From 2008-03-08 to 2010-02-08
Termal-Yalova	TRML	Turkey	40.6095N	29.1735E	204	From 2014-01-01
Terme di Santa Lucia (Busana) - RE	RE05	Italy	44.4018N	10.3270E	1007	From 2008-12-28 to 2009-02-12
Termini	ISOR	Italy	40.5820N	14.3350E	497	From 1976-01-01
Ternate	TNE	Moluccas,Indonesia	0.7860N	127.3690E	0	
Ternate	TNTI	Moluccas,Indonesia	0.7718N	127.3667E	43	From 2007-01-05
Ternei	TEY	Primorskiy Kray,Russia	45.0360N	136.6030E	50	From 1982-02-01
Ternell	BTNL	Belgium	50.5862N	6.1297E	550	From 2013-09-16
Terradas	ETER	Spain	42.3015N	2.8555E	238	From 1988-03-01
Terra Mystica	MYKA	Austria	46.6299N	13.6416E	909	From 2006-12-13
Terranera (Rocca di Mezzo)	RM16	Italy	42.2347N	13.5321E	1311	From 2009-04-08 to 2009-05-25
Terranova	TER	Guatemala	14.3023N	90.6837W	560	From 1975-03-01
Terra Nova	BD15	Nordrhein-Westfalen,Germany	50.9145N	6.5903E	65	From 2013-09-24
Terranova Bay	TNV	Victoria Land	74.6950S	164.1240E	40	
Terranova Sibari	TDS	Italy	39.6589N	16.3378E	270	
Terranuova Bracciolini	TTER	Italy	43.5530N	11.5930E	163	From 2005-11-08
Terra Rica	TRCB	Parana,Brazil	22.7953S	52.6340W	580	
Terraza Guagua	TERV	Ecuador	0.1743S	78.6043W	4228	
Terre Adelie	TAA	Terre Adelie	66.8178S	141.3950E	8	
Terrebonne, OR	I05D	Oregon,U.S.A.	44.3386N	121.3395W	811	From 2009-10-20
Terre de Bas, Les Saintes	TDBA	Guadeloupe,France	15.8490N	61.6360W	157	From 2012-10-01
Terre Haute	THI	Indiana,U.S.A.	39.4069N	87.3600W	150	From 1962-09-21
Terry Harris R'ch	CTHM	California,U.S.A.	37.6680N	121.6557W	344	
Terskaya	TRKR	Severo-Osetinskaya,Russia	43.7233N	44.7321E	141	From 2005-08-09
T˜'s	PKST	Hungary	47.2590N	18.0343E	473	From 2007-05-31
Tescani	TESR	Romania	46.5118N	26.6489E	372	
Teshikaga	TES	Kushiro,Japan	43.4836N	144.4028E	230	
Tesla Road	CTLM	California,U.S.A.	37.6573N	121.6440W	458	
Test Site	N2-NV	Nevada,U.S.A.	36.6333N	115.9831W		
Tesuque Peak	TSP	New Mexico,U.S.A.	35.7853N	105.7810W	3664	From 1973-10-14
Tesvikiye-Yalova	TSVK	Turkey	40.6267N	29.0873E	70	From 2014-01-01
Tete	TET	Mozambique	16.1467S	33.5768E	153	From 1970-12-01
Tete Morne	DTMT	Dominica	15.2330N	61.3520W	496	
Tetilla Peak	TTP	New Mexico,U.S.A.	35.6094N	106.2060W	2103	From 1973-10-01
Tetitlan	TETM	Guerrero,Mexico	17.1617N	100.6305W	50	
Teton Pass	TPAW	Wyoming,U.S.A.	43.4901N	110.9510W	2512	From 1986-01-01
Tevekalti-Mersin	TEVE	Turkey	36.4359N	33.4430E	847	From 2011-07-01
Texada	TXB	British Columbia,Canada	49.6969N	124.4360W	515	From 1984-01-14
Tezpur	TZR	Assam,India	26.6333N	92.8000E		
TEZPUR	TEZP	Assam,India	26.6168N	92.7989E	83	From 2011-05-01
Thakurichhap	THAK	Nepal	27.5997N	85.5567E	1551	From 2001-10-16 to 2002-11-07
Thala	THA	Tunisia	35.5603N	8.6997E	1080	
Thala	THTN	Tunisia	35.5616N	8.6881E	1095	From 2010-01-10
Thalero	THAL	Greece	38.0372N	22.6631E	129	From 2008-06-14
Thallon Road	WTRQ	Queensland,Australia	27.5286S	152.4640E		From 1985-05-23
Thamme Wali	THW	Pakistan	32.7943N	71.7427E	533	
Thanh Hoa	THV	Vietnam	19.8508N	105.7820E	0	From 2001-01-01
Thassos island	THAS	Greece	40.6064N	24.7194E	67	From 2012-07-04
Thassos, Thassos Island	THS1	Greece	40.7385N	24.5751E	36	From 2010-11-01
Thathri	TATRI	Jammu and Kashmir	33.1427N	75.7715E	1083	
Thathri	THTRI	Jammu and Kashmir	33.1455N	75.7918E	931	
The Bluff, Cayman Brac	CBCY	Cayman Islands	19.7380N	79.7583W	31	From 2011-01-01
The Citadel Site 1	C1SC	South Carolina,U.S.A.	32.7983N	79.9590W	5	
The Citadel Site 2	C2SC	South Carolina,U.S.A.	32.7993N	79.9643W	2	
The Dalles	VTDM	Oregon,U.S.A.	45.5453N	121.3110W	305	
The Farm, Brule	E38A	Wisconsin,U.S.A.	46.6058N	91.5542W	341	From 2011-08-29 to 2013-11-26
The Heights School	THS	South Australia,Australia	34.7417S	138.7733E	340	
Thein Dam	THN	Himachal Pradesh,India	32.4333N	75.7167E		
The King's School, Parramatta	AUTKS	New South Wales,Australia	33.7800S	151.0300E	95	From 2013-02-27
The Old Anderson's Place, Rush Valley	O15A	Utah,U.S.A.	40.2807N	112.4694W	1611	From 2007-06-28 to 2009-04-08
The Paps	APZ	Stewart Island,New Zealand	46.8318S	167.9889E	601	From 2006-05-07
The Peters Seismological Observatory	TPSO	South Australia,Australia	35.5000S	138.5000E	88	From 2014-02-01
The Promontory	YTP	Wyoming,U.S.A.	44.3918N	110.2850W	2384	
Thera Island	THR1	Greece	36.3705N	25.4593E	550	From 2004-02-01
Thermopolis	TL-WY	Wyoming,U.S.A.	43.3917N	108.0881W	1615	
Thessaloniki	THE	Greece	40.6322N	22.9650E	70	From 1981-01-01
Thessaloniki Prefecture	PRF1	Greece	40.5927N	22.9556E	-22	From 2011-10-01
Thessaloniki Prefecture D.H.	PRF0	Greece	40.5927N	22.9556E	28	From 2012-08-01
Thessaloniki S.S. Downhole	STA1	Greece	40.6317N	22.9628E	53	From 2012-04-01
Thessaloniki S.S. Downhole	STA0	Greece	40.6317N	22.9628E	83	From 2012-04-01
They Montfort	THEF	Lorraine,France	48.2268N	5.9863E	469	
Thira Island, Akrotiri	THR6	Greece	36.3562N	25.3975E	119	From 2004-02-01
Thira Island, Kera	THR5	Greece	36.4172N	25.3479E	180	From 2004-02-01
Thira Island, Nea Kammeni	THR3	Greece	36.4091N	25.4008E	71	From 2004-02-01
Thira Island, Oia	THR4	Greece	36.4600N	25.3974E	220	From 2004-02-01 to 2009-09-01
Thira island, Vourvoulos	THR2	Greece	36.4468N	25.4353E	220	From 2008-05-31
Thirsty	NT13	Nevada,U.S.A.	37.1570N	116.6670W	1628	
Thirsty Canyon	TCNV	Nevada,U.S.A.	37.1416N	116.7214W	1471	From 1984-11-02 to 2002-12-10
THIVAI	THV2	Greece	38.3162N	23.3198E	180	From 2013-07-15
Thompson	CTOM	Ohio,U.S.A.	41.6917N	81.1473W	387	
Thompson Farm, Foxworth	345A	Mississippi,U.S.A.	31.3080N	90.0309W	134	From 2011-03-17 to 2012-12-14
Thompson Grove	U27A	Texas,U.S.A.	36.4213N	102.8246W	1342	From 2009-04-15 to 2010-11-09
Thompson Ridge	KTRM	California,U.S.A.	41.9087N	123.3760W	1378	
Thomson	TOMM	Victoria,Australia	37.8085S	146.3497E	932	
Thor	THO1	Pakistan	35.3820N	73.8560E	2082	From 2007-09-01
Thorn Acres	CTHA	Ohio,U.S.A.	41.5422N	81.1108W	362	
Thorn Hill	U52A	Tennessee,U.S.A.	36.3929N	83.3671W	510	From 2012-05-29
Thornton Park	SATS	California,U.S.A.	33.7078N	117.8910W	-370	From 1987-02-01
Thorofare Mountain	TRF	Alaska,U.S.A.	63.4510N	150.2870W	1717	From 1989-08-01
Three Chop Ridge	GTC	California,U.S.A.	39.3994N	123.5553W	369	
Three Creek Meadows	TCO	Oregon,U.S.A.	44.1075N	121.6000W	1975	From 1987-08-27
Three Creeks Reservoir	TCRU	Utah,U.S.A.	38.6095N	112.4472W	2293	From 2009-11-17
Three Lakes	F41A	Wisconsin,U.S.A.	45.7387N	89.1046W	509	From 2011-09-02 to 2013-06-10
Three Point Mountain	TID	Idaho,U.S.A.	43.5000N	115.9330W		
Three Points, Tucson	216A	Arizona,U.S.A.	32.0022N	111.4574W	908	From 2007-03-02 to 2008-12-09
Three Sisters	THRC	California,U.S.A.	34.5532N	117.7183W	1025	
Three Sisters--Wife	WIFE	Oregon,U.S.A.	44.0597N	121.8175W	1955	
Thule	THULE	Greenland	76.5567N	68.6750W	275	
Thule	TE-	Greenland	76.4972N	68.6056W	213	From 1965-10-12 to 1965-11-15
Thule	TULEG	Greenland	76.5374N	68.8237W	38	
Thule	THU	Greenland	76.4167N	68.3000W	485	
Thule	TE-GL	Greenland	76.4972N	68.6056W	213	From 1965-10-12 to 1965-11-15
Thunder Bay	TBO	Ontario,Canada	48.6473N	89.4083W	468	From 1987-01-23
Thunder Mountain BC	THMB	British Columbia,Canada	52.5489N	124.1323W	1126	From 2006-08-27
Thunduwike	VWZMW	Malawi	11.1753S	33.5744E	1128	From 2012-01-17
Th^…ringer Wald Luisenthal	THWA	Thuringen	50.7627N	10.6771E	692	From 2014-10-06
Tianjin	TIE	Hebei,China	39.1333N	117.2670E	20	
Tian-Shan	TNSS	Kazakhstan	43.0370N	76.9470E	3480	From 1984-09-01
Tianshui	TNH	Gansu,China	34.5783N	105.7520E		
Tiarei	TIAR	Society Islands,French Polynesia	17.5578S	149.3458W	300	
Tiaret	ETRT	Algeria	35.3900N	1.3000E	1221	
Tiberkul'	TBRR	Krasnoyarskiy Kray,Russia	53.8832N	93.7438E	400	From 2004-06-08
Ticaya	BATO	Bolivia	19.6254S	65.4374W	3353	From 1994-12-03 to 1995-08-08
Ticuantepe	TICN	Nicaragua	12.0335N	86.2317W	400	
Tiendilla	TLLA	Costa Rica	10.0045N	83.7737W	2677	
Tien Yen	TIYB	Vietnam	21.3348N	107.3893E	37	From 2006-01-01
Tierras Morenas	AR3	Costa Rica	10.5869N	85.0350W	760	
Tifton	TIGA	Georgia,U.S.A.	31.4389N	83.5898W	109	From 2008-12-06
Tigil	TIGL	Kamchatskaya Oblast',Russia	57.7640N	158.6700E	140	From 2012-08-09
Tignall	Y54A	Georgia,U.S.A.	33.8621N	82.6880W	176	From 2012-04-10
Tignish, PEI	TIGG	Prince Edward Island,Canada	47.0015N	63.0091W	8	From 2005-09-29 to 2007-11-05
Tigo	BI03	Bio-Bio	36.8437S	73.0257W	196	From 2013-06-13
Tigre	TIG	Costa Rica	9.0367N	83.2960W	690	From 1989-01-01
Tigre 2	TIG2	Costa Rica	9.0284N	83.2969W	680	
Tihany	TIH	Hungary	46.9000N	17.8930E	187	From 1987-01-01 to 1988-12-31
Tijuana	TJIG	Mexico	32.4335N	116.6747W	331	From 2010-10-30

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Tijuco Alta	RSTA	Parana,Brazil	24.6508S	49.0327W	248	From 1992-01-01
Tiksi	TIK	Sakha,Russia	71.6333N	128.8667E	41	
Tiksi	TIXI	Sakha,Russia	71.6490N	128.8665E	50	
Tilbrook Grange	KTG1	England,United Kingdom	52.3264N	0.4019W	83	From 1988-01-01
Tilden	834A	Texas,U.S.A.	28.1251N	98.5519W	151	From 2009-12-21 to 2011-10-10
Tilichiki	TIL	Kamchatskaya Oblast',Russia	60.4330N	166.0570E	40	
Tilichiki	TILK	Kamchatskaya Oblast',Russia	60.4460N	166.1450E	25	From 2008-12-04
Tilichiki	TILR	Kamchatskaya Oblast',Russia	60.4310N	166.0560E	40	From 2005-05-02
Tillmans-Whites Bay	TWB	South Carolina,U.S.A.	33.1147N	80.1030W	9	From 1988-03-01
Tillsonburg	K52A	Ontario,Canada	42.7805N	80.7139W	232	From 2012-12-06
Timbaki Heraklio	TMBK	Crete,Greece	35.0722N	24.7660E	17	From 2006-03-01
Timbered Crater	LTIM	California,U.S.A.	41.1761N	121.4888W	1156	
Timberline	TIMB	Oregon,U.S.A.	45.3356N	121.7101W	1901	From 2006-09-29
Timber Mountain	TMN	Nevada,U.S.A.	37.0836N	116.4440W	2190	From 1975-10-01
Timber Mountain	TMBR	Nevada,U.S.A.	37.0354N	116.3853W	1788	From 1982-02-19 to 2002-10-10
Timber West Blakeney	TWBB	British Columbia,Canada	48.5846N	124.0920W	122	
Timber West Granite	TWGB	British Columbia,Canada	48.6076N	124.2559W	127	
Timber West Koksilah	TWKB	British Columbia,Canada	48.6449N	123.7332W	128	
Timber West San Juan	TSJB	British Columbia,Canada	48.6013N	123.9885W	378	
Timisoara	TIM	Romania	45.7366N	21.2208E	88	From 1943-01-01
Timmins Ontario	TIMO	Ontario,Canada	48.4659N	81.3032W	392	From 2005-07-25
Timpagrande	TIP	Italy	39.1786N	16.7583E	815	
Timpanogos Cave	TCVU	Utah,U.S.A.	40.4436N	111.7052W	1730	From 2012-09-13
Tinaroo	TINA	Queensland,Australia	17.1761S	145.5304E	767	
Tin City	TCY	Alaska,U.S.A.	65.5663N	167.9558W	72	
Tin City	TNA	Alaska,U.S.A.	65.5606N	167.9239W	74	From 1976-08-01
Tinemaha, Big Pine	TIN	California,U.S.A.	37.0542N	118.2301W	1197	From 1929-09-04
Tinghir	MTNG	Morocco	31.4160N	5.5560W	550	From 1993-04-10
Tingri, Xizang Zizhiqu	DINX	Xizang Zizhiqu,China	28.6647N	87.1157E	4374	From 2001-09-26 to 2002-11-06
Tinkers Knob	TNK	California,U.S.A.	39.2675N	120.2360W	2438	From 1973-04-01
Tin Mountain	TMO	California,U.S.A.	36.8048N	117.4035W	2170	From 1978-11-28
Tinos	TNSA	Greece	37.5395N	25.1631E	16	From 2010-06-18
Tintock	TIWZ	North Island,New Zealand	40.7760S	175.8857E	559	From 2006-03-07
Tiouine	TIO	Morocco	30.9267N	7.2617W	1335	From 1969-01-01
Tipaza	ATPZ	Algeria	36.5300N	2.3100E	156	
Tipaza	ATIP	Algeria	36.8833N	2.5000E	0	
Tippipah	TP-NV	Nevada,U.S.A.	37.2003N	116.2261W	2256	
Tippipah	TP-	Nevada,U.S.A.	37.2003N	116.2260W	2256	From 1961-12-06 to 1961-12-16
Tiptonville	DY3	Tennessee,U.S.A.	36.4430N	89.5069W	87	From 1969-01-01 to 1972-12-31
Tiptonville	TIPT	Tennessee,U.S.A.	36.4238N	89.4861W	88	
Tiputa	TPT	Tuamotu,French Polynesia	14.9844S	147.6200W	3	
Tirane	TIR	Albania	41.3477N	19.8650E	247	From 1968-09-01
Tirgusor	TIRR	Romania	44.4581N	28.4128E	77	
Tisan-Mersin	TISA	Turkey	36.1620N	33.6788E	94	From 2013-04-18
Tishomingo	TO-	Oklahoma,U.S.A.	34.3564N	96.5681W	259	From 1961-11-20 to 1962-06-09
Tishomingo	TO-OK	Oklahoma,U.S.A.	34.3564N	96.5681W	259	From 1961-11-20 to 1962-06-09
Tissa	TIS	Morocco	31.8920N	6.5540W	1687	
Tito	TITE	Italy	40.5546N	15.6926E	660	
Tiverton	M64A	Rhode Island,U.S.A.	41.5509N	71.2102W	17	From 2013-09-12
Tivoli	LTTV	Italy	41.9525N	12.8054E	253	From 2011-04-26
Tizayuca	VTVM	Mexico D.F.,Mexico	19.7702N	98.7745W	2450	From 2009-01-01
Tjoern	TJOU	Sweden	58.0320N	11.6250E	40	From 2006-10-24
Tkibuli	TKI	Georgia,Georgia	42.3500N	43.0000E	320	
Tkibuli	TKB	Georgia,Georgia	42.3509N	42.9943E	603	From 1970-01-01
tl_alroos	ROOS	Syria	34.1694N	37.2891E	843	From 2004-01-01
Tlapa	TPG	Guerrero,Mexico	17.5607N	98.5555W	1100	
Tlapa	TLIG	Guerrero,Mexico	17.5627N	98.5665W	1136	
Tlapaneco	HMTT	Guerrero,Mexico	17.7983N	98.5597W	902	From 2009-02-16
Tlaxiaco	TXO	Oaxaca,Mexico	17.2817N	97.6817W	2025	
Tlemcen	OTLM	Algeria	34.8800N	1.3500W	801	
Tlemcen	TEC	Algeria	34.8500N	1.2833W		
T-Link Ranch, Clifton	Z19A	Arizona,U.S.A.	33.2921N	109.2657W	1397	From 2007-04-03 to 2009-01-17
TMO PEDROTE	TIOV	Venezuela	10.4385N	66.4146W	830	From 2005-11-01
Tnine Tigouga, Taroudante	TTIG	Morocco	30.5470N	8.4410W	1200	
Tnine Yamani	TSY	Morocco	35.3728N	5.9700W		
Toaza	TOAZ	Ecuador	0.1790S	78.6155W	4200	
Tobago	TOB	Trinidad and Tobago	11.1410N	60.8410W	15	From 1977-05-01 to 1999-08-25
Tobarra	ETOB	Spain	38.6447N	1.5478W	855	
Tobermory, Bruce Peninsula National Park	TOBO	Ontario,Canada	45.2257N	81.5234W	169	From 2009-05-21
Tobishima	TBS	Akita,Japan	39.1920N	139.5560E	45	
Tobi-shima	TOBT	Akita,Japan	39.1900N	139.5500E	20	
Tobi-shima	JTB	Yamagata,Japan	39.1953N	139.5573E	50	
Tobruq	LTBQ	Libya	32.0557N	23.9210E	139	
Tocklai	TOC	Assam,India	26.7500N	94.7667E	87	
Toconce	TCN	Antofagasta,Chile	22.2750S	68.1717W	3300	
Tocopilla	TOCH	Antofagasta,Chile	22.0935S	70.2007W	45	From 2007-11-23
Tocopilla	TCP	Antofagasta,Chile	22.1231S	70.2106W	10	
Tocopilla	TPL	Antofagasta,Chile	22.0978S	70.2094W	40	
Tocota	PP05	Peru	15.6555S	74.0865W	1005	
Todenfeld	TDN	Nordrhein-Westfalen,Germany	50.5748N	6.9446E	350	From 1996-11-01
Todoroki	TDR	Wakayama,Japan	34.1597N	135.3070E	50	
Todzha	TDJR	Tyva,Russia	52.4000N	96.1000E	1000	
Tofino	TOFB	British Columbia,Canada	49.1543N	125.9078W	13	From 2009-02-14
Togane	TOG	Chiba,Japan	35.5500N	140.3670E	9	
Tokachihiroo	JTHR	Hokkaido,Japan	42.2913N	143.2988E	54	From 2012-07-01
Tokai 1	TK01	Shizuoka,Japan	33.7650N	137.5900E	-2202	From 1979-09-01
Tokai 2	TK02	Shizuoka,Japan	33.9467N	137.7570E	-1542	From 1979-09-01
Tokai 3	TK03	Shizuoka,Japan	34.1650N	137.9650E	-817	From 1979-09-01
Tokai 4	TK04	Shizuoka,Japan	34.3850N	137.8750E	-722	From 1979-09-01
Tokat	TOKT	Turkey	40.3203N	36.5448E	726	From 1996-01-30
Tokat	TOKA	Turkey	40.3232N	36.4783E	679	From 2007-12-10
Tokmak	BTOK	Turkey	39.7617N	28.0311E	407	From 2003-10-20
Tokmak	TKMK	Kazakhstan	42.8601N	75.3184E	960	
Tokmak	TTK	Turkey	39.7650N	28.0450E	430	From 1983-06-01 to 1987-01-31
Tokmak 2	TKM2	Kazakhstan	42.9208N	75.5966E	2020	
Tok Microwave	TMW	Alaska,U.S.A.	63.3245N	142.9970W	495	From 1986-01-01
Tok Station 1	TOK1	Amurskaya Oblast',Russia	55.6965N	129.9770E	1419	
Tok Station 2	TOK2	Amurskaya Oblast',Russia	55.6016N	130.1575E	1419	
Tok Station 3	TOK3	Amurskaya Oblast',Russia	55.6733N	130.2541E	1203	
Tok Station 4	TOK4	Amurskaya Oblast',Russia	55.7420N	130.3360E	1400	
Toktogul	TOKL	Kyrgyzstan	41.9400N	72.8700E	1097	From 2009-11-27
Tokunoshima	JTK	Ryukyu Islands,Japan	27.7857N	128.9505E	170	
Tokushima	TKS	Tokushima,Japan	34.0650N	134.5770E	2	
Tokushima 2	TKSJ	Tokushima,Japan	33.9833N	134.0480E	180	
Tokuyama	TKJD	Gifu,Japan	35.6919N	136.4777E	400	
Tokyo	TOK	Tokyo,Japan	35.6867N	139.7583E	-285	
Tolbacick	TLBS	Kamchatskaya Oblast',Russia	55.7530N	160.4200E	1000	From 1975-07-05 to 1978-09-08
Toledo	NE17	Spain	39.8814N	4.0486W	480	From 1933-01-01 to 1992-10-31
Toledo	H02A	Oregon,U.S.A.	44.6764N	123.9997W	209	From 2005-11-15 to 2008-01-23
Toledo	TOL	Spain	39.8814N	4.0486W	480	From 1933-01-01 to 1992-10-31
Toledo BPA CREST BB SMO	TOLO	Oregon,U.S.A.	44.6219N	123.9225W	21	From 2001-10-23
Toledo HGLP	TLO	Spain	39.8600N	4.0147W	465	From 1971-08-01 to 1978-09-17
Tolfa	TOLF	Italy	42.0641N	12.0002E	371	From 2002-10-01
Tolfa - RM	TO04	Italy	42.2044N	11.9393E	227	From 2008-04-11 to 2009-04-02
Tolfa - RM	TO01	Italy	42.1351N	11.9672E	203	From 2008-04-28 to 2009-04-02
Tolicha Peak	TI-NV	Nevada,U.S.A.	37.2853N	116.8669W	1524	
Tolicha Peak	TPK	Nevada,U.S.A.	37.2686N	116.8040W	2080	From 1979-06-11 to 1982-12-31
Tolima	TOLC	Colombia	4.5853N	75.3203W	2577	From 1994-01-01
Tolitoli	TOLI2	Sulawesi,Indonesia	1.1112N	120.7817E	50	From 2012-07-21
Toli-Toli	TOLI	Sulawesi,Indonesia	1.1214N	120.7944E	86	From 2008-07-01 to 2012-07-11
Tolley Road	TLZ	North Island,New Zealand	38.3294S	175.5380E	601	From 2009-05-07
Tolmezzo	TLM	Italy	46.4014N	13.0144E	322	
Tololo Astronomical Observatory	TLL	Coquimbo,Chile	30.1672S	70.8045W	2200	From 1970-01-01
Tololo Observatory, Vicun@16a	GO04	Coquimbo,Chile	30.1727S	70.7993W	2116	
Tolsona	TOA	Alaska,U.S.A.	62.1048N	146.1720W	909	From 1971-09-15 to 2004-08-19
Tolsta	RTO	Scotland,United Kingdom	58.3778N	6.2092W	74	From 1995-09-10
Toltan Ranch, Big Piney	K18A	Wyoming,U.S.A.	42.6372N	110.0417W	2129	From 2007-11-06 to 2009-05-15
Tolt Reservoir	TTW	Washington,U.S.A.	47.6944N	121.6901W	542	
Tolt Reservoir	C05A	Washington,U.S.A.	47.6947N	121.6895W	541	From 2005-11-29 to 2008-02-21

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
TOLUCA	TOVM	Mexico	19.2828N	99.6777W	2727	From 2009-06-16
Tomahawk	TM-WS	Wisconsin,U.S.A.	45.4919N	89.5031W	488	
Tomahawk	TM-	Wisconsin,U.S.A.	45.4919N	89.5031W	488	
Tomahawk Gully	TMP	South Island,New Zealand	44.3133S	170.1201E	720	From 1975-06-18 to 1997-04-30
Tomakomai	TMR	Iburi,Japan	42.6333N	141.5830E	8	
Tomales Bay	NTBM	California,U.S.A.	38.2478N	122.9310W	128	
Tomamai	TOI	Rumoi,Japan	44.2212N	141.6837E	40	
Tomar	PTOM	Portugal	39.6180N	8.4107W	210	
Tom, Dick, Harry Mountain	TDH	Oregon,U.S.A.	45.2898N	121.7900W	1541	From 1982-09-01
Tom"-A^§u,PA,Brazil	TMAB	Para	2.3704S	48.0957W	26	From 2014-08-09
Tomie	TOM	Nagasaki,Japan	32.6083N	128.7650E	28	
Tonalea, Kykotsmovi	V17A	Arizona,U.S.A.	35.6218N	110.7938W	1596	From 2008-02-14 to 2009-02-06
TONANKAI O.B.S1	TTO1	Japan	33.6222N	136.7847E	-2068	From 2008-10-01
TONANKAI O.B.S2	TTO2	Japan	33.7347N	137.0272E	-2100	From 2008-10-01
TONANKAI O.B.S3	TTO3	Japan	33.8630N	137.3977E	-1000	From 2008-10-01
TONANKAI O.B.S4	TTO4	Japan	34.0080N	137.5382E	-1836	From 2008-10-01
TONANKAI O.B.S5	TTO5	Japan	34.2522N	137.7163E	-1019	From 2008-10-01
Tonantzintla	IIT	Puebla,Mexico	19.0210N	98.3080W	2205	
Tonasket	TK-WA	Washington,U.S.A.	48.7939N	119.5878W	549	From 1963-08-21 to 1964-05-17
Tonasket	TK-	Washington,U.S.A.	48.7939N	119.5878W	549	From 1963-08-21 to 1964-05-17
T'onet'i	TNTG	Georgia,Georgia	41.6600N	44.4100E	120	
Tongareva I.	TG-	Cook Islands	9.0600S	158.0356W	3	From 1962-04-30 to 1962-11-04
Tongareva Island	TG-IS	Cook Islands	9.0600S	158.0356W	3	From 1962-04-30 to 1962-11-04
Tongariro	TON	North Island,New Zealand	39.2010S	175.5382E	1120	From 1945-10-01 to 1966-04-23
Tongatapu	TNGT	Tonga	21.1500S	175.1830W	10	
Tongue	OTO	Scotland,United Kingdom	58.4953N	4.3940W	338	From 1995-09-21
TONGYEONG	KSTOY	Republic of Korea	34.8454N	128.4356E	32	From 2006-12-30
Tonnelnyy	TNL	Buryatiya,Russia	56.2800N	113.3600E	820	
Tonopah	TPH	Nevada,U.S.A.	38.0750N	117.2225W	1883	From 1961-09-01
Tonopah	TNP	Nevada,U.S.A.	38.0820N	117.2180W	1932	From 1963-10-11
Tonopah	R09A	Nevada,U.S.A.	38.2397N	117.0718W	1759	From 2006-06-10 to 2008-03-22
Tonopah	TPV	Nevada,U.S.A.	38.0658N	117.2280W	1890	From 1965-01-01 to 1970-12-31
Tonopah Range, Tonopah	S10A	Nevada,U.S.A.	37.9230N	116.5948W	1796	From 2007-01-22 to 2008-09-12
Tonto Forest Array	TFO	Arizona,U.S.A.	34.2678N	111.2700W	1492	From 1963-01-01 to 1975-03-31
Tonto Hills Observatory	THO	Arizona,U.S.A.	33.8753N	111.8740W	1134	From 1973-02-04 to 1974-07-31
Tony Mavity, Velonia	W41A	Arkansas,U.S.A.	35.1736N	92.2478W	95	From 2011-04-06 to 2011-08-06
Toogoolawah	WTGQ	Queensland,Australia	27.1458S	152.3330E	130	From 1977-03-18
Toolangi	TOO	Victoria,Australia	37.5714S	145.4910E	604	From 1962-01-01
Toolik Lake Research Station	TOLK	Alaska,U.S.A.	68.6408N	149.5724W	760	From 2011-08-13
Toone Canyon	TCUT	Utah,U.S.A.	41.1178N	111.4085W	2320	From 1989-08-01
Toowoomba	WOOM	Queensland,Australia	27.5441S	151.9720E	759	
Toowoomba 1 Hard	TW1H	Queensland,Australia	27.5442S	151.9720E	730	From 2009-01-01
Toowoomba State High School	AUTOO	Queensland,Australia	27.5500S	151.9700E	687	From 2013-08-11
Topalu	TLB	Romania	44.5858N	28.0420E	60	
Topalu	TLBR	Romania	44.5445N	28.0467E	115	From 2014-04-08
Tophouse	THZ	South Island,New Zealand	41.7625S	172.9052E	747	From 1989-12-02
Topkok	TKK	Alaska,U.S.A.	64.5558N	163.9970W	122	
Topo	TOPO	Azores,Portugal	38.5910N	27.9190W	645	
Topolobampo	TPB	Sinaloa,Mexico	25.5967N	109.0530W	25	
Topolog	TPGR	Romania	44.8565N	28.4196E	449	From 2014-10-16
Topolog	TOPG	Romania	44.8764N	28.3782E	218	From 2013-10-23
Topolovo	TOP	Kamchatskaya Oblast',Russia	53.2300N	158.0410E	200	
Topopah Spring	TPNV	Nevada,U.S.A.	36.9488N	116.2495W	1600	From 1992-06-15
Toppenish Ridge	TR-WA	Washington,U.S.A.	46.2633N	120.5167W		
Toppenish Ridge	TRW	Washington,U.S.A.	46.2921N	120.5431W	723	From 1994-10-14
Toppo Di Castelgrande (Osservatorio Astronomico)	CSG3	Italy	40.8181N	15.4633E	1253	
Toppo, Italy	TOPPO	Italy	46.1987N	12.8170E	258	From 2009-03-25
Tor 1	TR1	Egypt	28.0068N	33.9521E	277	
Tor 2	TR2	Egypt	28.3853N	33.7227E	240	
T or C	TC-	New Mexico,U.S.A.	33.1842N	107.4617W	1524	From 1961-12-20 to 1962-05-03
Torcal de Antequera, Malaga	E013	Spain	36.9641N	4.5340W	1221	From 2007-10-05 to 2009-06-23
Tordecillas	TORR	Spain	36.9723N	4.0743W	1321	
Torete	ETOR	Spain	40.8194N	2.0552W	1018	From 1988-03-01
Toribari	TORI	Manipur,India	25.0857N	93.5742E	40	From 2012-01-01
Torino	TNO	Italy	45.0588N	7.6969E	260	From 1971-05-06
Tori shima	TOR	Bonin Islands,Japan	30.4817N	140.3050E	82	
TORKOZ	MTOR	Morocco	28.4948N	9.8487W	316	From 2010-01-01
Tornio	TOF	Finland	66.0799N	24.3246E	50	From 2011-01-27
Tornquist	TRQA	Argentina	38.0567S	61.9795W	501	
Torny/Romont	TORNY	Switzerland	46.7737N	6.9586E	758	From 2000-01-25
Torococo	TORV	Venezuela	9.5600N	70.2300W	1250	
Torodi Ar. Beam	TORD	Niger	13.1477N	1.6947E	214	
Torodi Ar. Site	TOA1	Niger	13.1529N	1.6919E	220	
Torodi Ar. Site	TOA3	Niger	13.1422N	1.6933E	216	
Torodi Ar. Site	TOA2	Niger	13.1477N	1.7004E	216	
Torodi Ar. Site	TOB1	Niger	13.1613N	1.6934E	231	
Torodi Ar. Site	TOA0	Niger	13.1477N	1.6947E	214	
Torodi Ar. Site	TOB2	Niger	13.1532N	1.7071E	216	
Torodi Ar. Site	TOB3	Niger	13.1376N	1.7042E	215	
Torodi Ar. Site	TOB4	Niger	13.1386N	1.6838E	226	
Torodi Ar. Site	TOB5	Niger	13.1536N	1.6806E	218	
Torodi Ar. Site	TOC1	Niger	13.1721N	1.7017E	233	
Torodi Ar. Site	TOC2	Niger	13.1568N	1.7204E	221	
Torodi Ar. Site	TOC3	Niger	13.1370N	1.7205E	214	
Torodi Ar. Site	TOC4	Niger	13.1216N	1.6994E	231	
Torodi Ar. Site	TOC5	Niger	13.1282N	1.6751E	231	
Torodi Ar. Site	TOC6	Niger	13.1483N	1.6655E	225	
Torodi Ar. Site	TOC7	Niger	13.1638N	1.6787E	224	
Toronto	TNT	Ontario,Canada	43.6667N	79.4000W	111	From 1897-01-01 to 1942-12-31
Toronto--Leslie Street Spit	TORO	Ontario,Canada	43.6136N	79.3433W	80	From 2004-05-04
Torosgyugh	TORS	Armenia	40.9350N	43.8733E	1910	
Torpederas	VA01	Valpara^›so	33.0229S	71.6474W	37	From 2013-09-03
Torre del Filo	ETFI	Sicily,Italy	37.7391N	14.9969E	2992	From 1994-10-01
Torre dell'Olmo (Gubbio) - PG	AT10	Italy	43.3196N	12.6942E	571	From 2010-04-20
Torres, Weston	T24A	Colorado,U.S.A.	37.0738N	105.0521W	2510	From 2008-06-27 to 2009-08-13
Torrevieja	EXTO	Spain	37.9920N	0.6890W	25	
Torrevieja, Alicante	E035	Spain	37.9950N	0.9356W	302	From 2008-04-25 to 2009-10-07
Torsby	TBY	Sweden	60.0790N	12.8300E	285	From 1978-01-01
Torshavn	FTO	Faeroe Islands	62.0199N	6.8274W		
Tortengo (Faido)	TONGO	Switzerland	46.4870N	8.7899E	864	From 2005-12-15
Tortola	TBVI	Virgin Islands	18.4167N	64.6167W	3	
Tortoreto Alta	TRTR	Italy	42.8081N	13.9138E	160	From 2006-11-15
Tortuguero	TRTC	Costa Rica	10.5753N	83.7135W	105	From 1996-01-01
Tortuguero	TRT1	Costa Rica	10.5973N	83.6995W	63	
Tory Channel	TCW	South Island,New Zealand	41.2103S	174.2764E	197	From 1977-03-28
Tosashimizu	JTO	Kochi,Japan	32.8597N	132.8022E	180	
Toshimahigashiyama	JTHY	Tokyo,Japan	34.5237N	139.2883E	147	From 2012-07-01
Tosontsengel	TSC	Mongolia	48.7700N	98.2500E	1450	
Tosya	TOS	Turkey	41.0360N	34.0230E	1046	
TOTAH	TOTH	Syria	33.3613N	36.4283E	696	From 2004-01-01
Toteng	TOT1	Botswana	20.3770S	22.9650E	940	From 2001-01-01 to 2100-12-31
Tottori	TOTJ	Tottori,Japan	35.4783N	134.2720E	27	From 1979-01-01
Tottori	TOT	Tottori,Japan	35.4850N	134.2400E	18	
Tottori	TTT	Tottori,Japan	35.5147N	134.2378E	10	
Toucheng	NTC	Taiwan region	24.8544N	121.8297E	4	From 2008-10-20
Toulon	O07A	Nevada,U.S.A.	40.1614N	118.8772W	1203	From 2006-03-01 to 2008-03-19
Toulx Ste Croix	TCF	Limousin,France	46.2881N	2.2100E	593	
Toumodi	TIC	Ivory Coast	6.6447N	5.0200W	263	From 1967-06-01
Tounfite	TFT	Morocco	32.0580N	5.2670W	0	
Tounfite	TNF	Morocco	32.5300N	5.3190W	2250	From 1993-01-01
Touzarine	TOU	Morocco	34.9620N	3.7540W	1126	From 1993-01-01
Tovanakuss	ETV	New Britain,Papua New Guinea	4.2062S	151.6677E	30	
Tower One	TOW	California,U.S.A.	35.8090N	117.7640W	684	
Townsend	357A	Georgia,U.S.A.	31.4239N	81.4855W	7	From 2012-03-15
Townsend	TSTN	Tennessee,U.S.A.	35.6766N	83.7040W	341	
Townsville	TVL	Queensland,Australia	19.2617S	146.7680E	5	
Townsville Hard Rock	TV1H	Queensland,Australia	19.2614S	146.7954E	65	From 2009-01-01
Townsville Soft Rock	TV2S	Queensland,Australia	19.2904S	146.7890E	17	From 2012-08-02
Toyama	TOY	Toyama,Japan	36.7067N	137.2050E	10	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Toyohashi	TYH	Aichi,Japan	34.7626N	137.4701E	76	
Toyohira	JHT	Hiroshima,Japan	34.6625N	132.4210E	470	
Toyone	TYNN	Aichi,Japan	35.1329N	137.6696E	650	
Toyo'oka	TYK	Hyogo,Japan	35.5333N	134.8250E	4	
Toyota	JTY	Yamaguchi,Japan	34.2627N	131.0645E	120	
Trabuc cave	TRBF	Languedoc-Rousillon,France	44.1054N	3.9587E	-142	From 2010-12-06
Trabzon	KTUT	Turkey	40.9870N	39.7667E	171	From 2006-08-17
Trabzon	TBZ	Turkey	40.9944N	39.7761E	57	From 1976-07-10 to 1999-08-25
Trabzon	MACK	Turkey	40.9432N	39.7686E	611	From 2005-08-06
Tracy	TY-	Minnesota,U.S.A.	44.3458N	95.5197W	351	
Tracy	TY-MN	Minnesota,U.S.A.	44.3458N	95.5197W	351	
Tradedollar Lake	TDL	Washington,U.S.A.	46.3508N	122.2160W	1400	
Trail	C33A	Minnesota,U.S.A.	47.7586N	95.7725W	388	From 2010-08-26 to 2012-09-11
Trail	TRH	Hawaii,U.S.A.	19.4152N	155.5490W	3207	
Trail Creek	YTC	Wyoming,U.S.A.	44.2965N	110.2320W	2360	
Trail Mountain	TMUT	Utah,U.S.A.	39.2965N	111.2082W	2733	
Tram Tau	TTVN	Vietnam	21.4720N	104.3570E	50	From 2003-01-01
Trang	TRTT	Thailand	7.8362N	99.6912E	71	
Tranquillity	TQTN	Tennessee,U.S.A.	35.5160N	84.7258W	260	
Tranquitos	TSA	Salta,Argentina	22.3889S	63.7753W	425	
Trapeza	TRAZ	Greece	38.1685N	22.2121E	668	From 2010-09-27
Trapper Creek	TRAP	Alaska,U.S.A.	62.3350N	150.2440W	127	
Trask Mountain	TKO	Oregon,U.S.A.	45.3713N	123.4540W	1024	From 1991-08-20
Traveller	TRWZ	North Island,New Zealand	41.3980S	175.6879E	379	From 2005-06-22
Traversella	TRAV	Italy	45.5127N	7.7470E	990	From 1996-01-01
Travnik	TRA	Bosnia and Herzegovina	44.2167N	17.6833E		
Trebinje	TREB	Bosnia and Herzegovina	42.7170N	18.3500E	300	From 2004-06-29
Tree Lodge	TREE	Tanzania,United Republic of Tanzania	3.6698S	35.7467E	964	
Tregnago	TREG	Italy	45.5230N	11.1606E	342	From 2011-09-07
Treia	TRE1	Italy	43.3112N	13.3128E	330	From 2011-03-29
Trelew	TRWA	Chubut,Argentina	43.2652S	65.3773W	0	
Tremoli - CS	T0724	Italy	39.8488N	15.8765E	356	From 2012-10-27
Tremp	CTRE	Spain	42.3242N	0.7736E	1318	From 2006-07-01
Trente	TRE	Italy	39.2833N	16.3167E	534	
Tres Cuevas	TTX	Texas,U.S.A.	29.3164N	103.7180W	1006	
Tres Palos	PALV	Venezuela	10.4489N	71.6299W	1	
Tres Piedras	TD-	New Mexico,U.S.A.	36.6556N	106.1717W	2926	From 1963-08-22 to 1963-11-26
Tres Piedras	TD-NM	New Mexico,U.S.A.	36.6556N	106.1717W	2926	From 1963-08-22 to 1963-11-26
Tres Rios	TRRB	Rio de Janeiro,Brazil	22.1541S	43.1955W	222	
Trest	TREC	Czech Republic	49.2948N	15.4871E	559	From 2005-07-12
Tretes	TRT	Jawa,Indonesia	7.7040S	112.6350E		
Trevaresse	TREF	Provence-Cote d'Azur,France	43.6242N	5.3838E	460	
Trevi	TREV	Italy	42.8768N	12.7444E	370	From 2011-10-01
Treviso	TRV	Italy	45.6667N	12.1833E	14	
Trewern Hill	HTR	Wales,United Kingdom	52.0790N	3.2697W	329	From 1982-01-01
Trialeti	TRLG	Georgia,Georgia	41.5392N	44.1018E	1600	From 2012-08-18
Triangle-X Ranch	TRXW	Wyoming,U.S.A.	43.7493N	110.5634W	2256	From 1986-01-01
Tribune	R28A	Kansas,U.S.A.	38.3423N	101.8106W	1108	From 2009-04-12 to 2011-03-18
Tricarico	BTRC	Italy	40.6180N	16.1414E	799	From 2010-03-19
Trident Resrch Ctr	TRSC	South Carolina,U.S.A.	32.8718N	80.0336W	7	
Triemli, ZR	EWZT0	Switzerland	47.3670N	8.4964E	224	From 2009-10-10
Triesenberg, Werkhof, FL	STRW	Switzerland	47.1165N	9.5503E	1030	From 2014-10-15
Trieste	TTE	Italy	45.6460N	13.7620E	3	From 1989-01-01
Trieste	TRI	Italy	45.7089N	13.7642E	161	From 1963-07-29
Trieste (CM)	TRS	Italy	45.6428N	13.7539E	8	
Trifonti	TRIF	Italy	43.1148N	10.9026E	596	From 2010-05-17
Trigal station	BMAS	Ecuador	1.5028S	78.4793W	2953	From 2007-03-08
Trigance	TRIGF	Provence-Cote d'Azur,France	43.7472N	6.4075E	1050	From 2012-03-31
Trig B	TBC	South Island,New Zealand	45.1447S	169.3304E	619	From 1986-12-09 to 1996-05-01
Trig L	TLC	South Island,New Zealand	45.1897S	169.0714E	1393	From 1989-06-29 to 1996-04-27
Trims Highway	THY	Alaska,U.S.A.	63.4167N	145.7520W	732	From 1986-01-01
Trindle Farm, Earlham	M37A	Iowa,U.S.A.	41.4028N	94.0575W	325	From 2010-10-28 to 2012-08-29
Trinidad	T25A	Colorado,U.S.A.	37.1388N	104.4108W	2017	From 2008-05-25
Trinidad (USA)	TJC	Colorado,U.S.A.	37.2169N	104.6910W	2103	
Trinidad (USA)	TDC	Colorado,U.S.A.	37.2536N	104.3350W	1750	From 1970-01-01 to 1972-11-30
Trinidad (W)	TRN	Trinidad and Tobago	10.6480N	61.4030W	24	From 1959-08-06
Trinity Center, CA	N02D	Oregon,U.S.A.	40.9740N	122.7050W	937	From 2009-11-05
Trinity Mountain	TYI	Idaho,U.S.A.	43.6000N	115.4520W	2613	
Trinity Point	TPOR	Oregon,U.S.A.	45.0244N	117.0860W	2000	From 1991-09-01
Triple J Farms, Joplin	A17A	Montana,U.S.A.	48.9448N	110.6994W	973	From 2007-11-17 to 2009-08-16
Tripoli	TRIP	Italy	37.5278N	22.2708E	820	From 2010-06-27
Tripoli	LTRP	Libya	32.8447N	13.1633E	83	
Tripolis, Arkadia	TRP1	Greece	37.5112N	22.3630E	704	From 2010-11-01
Tripped Ranch	TPRS	California,U.S.A.	34.0888N	118.5870W	-1	From 1985-11-01
Tristan da Cunha	TRIS	Tristan da Cunha	37.0682S	12.3152W	55	
TRISTAN DA CUNHA ISLAND. INFRASONIC ARRAY REFERENCE POINT	H09E	Tristan da Cunha	37.0900S	12.3319W	81	From 2005-03-24
TRISTAN DA CUNHA T-PHASE SITE N1	H09N1	Tristan da Cunha	37.0681S	12.3152W	0	From 2004-03-17
TRISTAN DA CUNHA T-PHASE SITE W1	H09W1	Tristan da Cunha	37.0972S	12.3350W	0	From 2004-03-17
Tristan de Cunha	TDC1	Tristan da Cunha	37.0716S	12.3096W		
Trivandrum	TRVM	Kerala,India	8.5080N	76.9585E	30	
Trivandrum	TRD	Kerala,India	8.5080N	76.9585E	64	From 1966-08-15
Trivento	TRIV	Italy	41.7666N	14.5502E	598	From 2005-03-17
Trizonia	TRIZ	Greece	38.3655N	22.0727E	57	
Trois Ilets	TRMF	Martinique,France	14.5363N	61.0512W	78	
Trois Rivieres	TVG	Guadeloupe,France	15.9797N	61.6478W	185	
Trois Rivieres	FBG	Guadeloupe,France	15.9797N	61.6478W	185	
Troitsky	TRCK	Orenburgskaya Oblast',Russia	51.6435N	54.2593E	69	From 2011-12-20
Trojmez^›	TRCW	Czech Republic	50.3032N	12.1448E	566	From 1991-01-01
Troll, Antartica	TROLL	Dronning Maud Land	72.0082S	2.5300E	1399	From 2012-02-05
Tromm	TOD	Hessen,Germany	49.6059N	8.8038E	568	From 1974-10-01
Tromso	TRO	Norway	69.6325N	18.9281E	15	From 1993-08-06
Trondheim	TBLU	Norway	63.2518N	10.2607E	232	From 2008-12-05
Trondheim	TRON	Norway	63.4545N	10.4363E	34	
Tropico Hills	TPO	California,U.S.A.	34.8788N	118.2280W	799	
Trosnyk	TRSU	Ukraine	48.0950N	22.9570E	120	From 1998-01-01
Trotters	TS-ND	North Dakota,U.S.A.	47.1069N	103.6731W	816	From 1964-10-02 to 1965-05-14
Trotters	TS-	North Dakota,U.S.A.	47.1069N	103.6731W	816	From 1964-10-02 to 1965-05-14
Trough	VTHM	Oregon,U.S.A.	45.1812N	120.5610W	773	
Trough Springs	GTSM	California,U.S.A.	39.3117N	122.6030W	1103	
Trout Butte	TCBU	Oregon,U.S.A.	44.2408N	122.6644W	1646	
Trout Creek	C12A	Montana,U.S.A.	47.7039N	115.4811W	782	From 2006-09-22 to 2006-12-03
Trout Creek Butte	VTCM	Oregon,U.S.A.	44.9137N	121.6660W	1690	
Trout Gulch Road	JTGM	California,U.S.A.	37.0285N	121.8777W	204	From 1975-10-02
Trout Lake	TT-	Michigan,U.S.A.	46.2097N	85.1678W	259	
Trout Lake	TT-MI	Michigan,U.S.A.	46.2097N	85.1678W	259	
Troy	H64A	Maine,U.S.A.	44.6412N	69.2203W	158	From 2013-09-18
Troy	TRY	New York,U.S.A.	42.7311N	73.6669W	131	From 1960-01-01
Troy Canyon	TRCR	Nevada,U.S.A.	38.3497N	115.5852W	1815	
Troy Canyon, Currant	R11A	Nevada,U.S.A.	38.3489N	115.5854W	1756	From 2007-02-09
Trozza	TROT	Tunisia	35.5617N	9.6002E	900	
Trudelj	TRUS	Serbia	44.2235N	20.4063E	340	From 2006-10-22
Trude Siding	YPTS	Idaho,U.S.A.	44.4623N	111.3525W	1926	
Truellikon	TRULL	Switzerland	47.6487N	8.6816E	525	From 2003-08-29
Trujillo	TUV	Venezuela	9.3510N	70.4510W	0	
Trujillo	TRP	Peru	8.0780S	78.8610W		
Truk	TRU	Caroline Islands,Micronesia	7.4458N	151.8560E	107	From 1949-03-01 to 1999-08-25
Truth or Consequences (T or C)	TC-NM	New Mexico,U.S.A.	33.1842N	107.4617W	1524	From 1961-12-20 to 1962-05-03
Truxton	Q41A	Missouri,U.S.A.	38.9539N	91.2317W	191	From 2011-08-05 to 2013-04-13
Tryon Peak	TRYN	North Carolina,U.S.A.	35.2460N	82.2670W	915	From 1983-03-22
Tsaile	TSL	Arizona,U.S.A.	36.3722N	109.2440W	2012	From 1975-05-22 to 1999-08-25
Tsaishi	ZSH	Georgia,Georgia	42.4280N	41.8061E	45	From 1984-01-01
Tsauling	CHN5	Taiwan region	23.5970N	120.6780E	840	
Tsaushan	CHN4	Taiwan region	23.3510N	120.5930E	205	
Tschierv	STSP	Switzerland	46.6266N	10.3332E	1699	From 2006-08-16
Tsebel'da	TSE	Georgia,Georgia	43.0167N	41.2833E	430	
Tsetserleg	TTS	Mongolia	47.4800N	101.4400E	1760	
Tsey	ZEI	Severo-Osetinskaya,Russia	42.7881N	43.9014E	1926	
Tsim Bei Tsui	THK	Hong Kong,China	22.4863N	114.0117E	4	
Tsina	TSIM	Alaska,U.S.A.	61.2262N	145.3370W	1113	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Tsipikan	ZIP	Buryatiya,Russia	54.9000N	113.3000E		
Tsirk	CIRR	Kamchatskaya Oblast',Russia	56.1153N	160.7481E	1420	
Tsit'eli Tsqaro	ZTZ	Georgia,Georgia	41.4600N	46.1100E	800	
TS Leibis	LEIB1	Thuringen	50.5761N	11.1978E	480	From 2014-03-19
Tsodilo	TSD1	Botswana	18.7070S	21.7130E	1045	From 2001-01-01 to 2100-12-31
Tsokhamarg	TSOZ	Armenia	40.9500N	43.8670E	1970	
Tsoukalades, Lefkada island	TSLK	Greece	38.8249N	20.6554E	212	From 2012-10-09
Tsu	TSU1	Mie,Japan	34.7300N	136.5233E	18	
Tsu	TSU	Mie,Japan	34.7017N	136.5180E	4	
Tsu 2	TSUJ	Mie,Japan	34.7097N	136.4193E	30	From 1988-03-19
Tsukechi	TKC	Gifu,Japan	35.6534N	137.4662E	690	
Tsukuba	TSK	Ibaraki,Japan	36.2108N	140.1100E	280	From 1966-04-01
Tsumeb	TSUM	Namibia	19.2022S	17.5838E	1240	From 1994-09-01
TSUMEB INFRASONIC ARRAY REFERENCE POINT	I35NA	Namibia	19.1913S	17.5768E	1253	From 2003-03-19
Tsuna	TNAK	Hyogo,Japan	34.4180N	134.8849E	90	
Tsuna	JAJ2	Hyogo,Japan	34.4192N	134.8850E	85	
Tsuno	JTSN	Miyazaki,Japan	32.2455N	131.5045E	130	From 1997-03-01
Tsuruga	TSR	Fukui,Japan	35.6500N	136.0650E	2	
Tsuruga	TSRJ	Fukui,Japan	35.5367N	135.9830E	47	From 1978-01-01
Tsurugi yama	TSS	Tokushima,Japan	34.0417N	134.1700E	57	
Tsushima	JTU	Nagasaki,Japan	34.5243N	129.3987E	70	
Tsushimamitsushima	JTSM	Nagasaki,Japan	34.3386N	129.3849E	28	From 2013-07-01
Tsuyama	TUY	Miyagi,Japan	38.3900N	141.2200E		
Ttatey	JTT	Toyama,Japan	36.6050N	137.3333E	236	
Tuai	TUA	North Island,New Zealand	38.8062S	177.1507E	274	From 1932-09-01 to 1988-03-09
Tual	TLE	Irian Jaya,Indonesia	5.6373S	132.7373E	113	
Tuamarina	TUWZ	South Island,New Zealand	41.4294S	173.9429E	132	From 2004-05-05
Tuan Giao	TGV	Vietnam	21.5898N	103.4182E	0	From 1996-01-01
Tuapeka	TUZ	South Island,New Zealand	45.9540S	169.6312E	110	From 1991-04-04
Tuba City	U16A	Arizona,U.S.A.	36.1428N	111.1297W	1544	From 2007-05-18 to 2009-02-08
Tubarˆ£o-SC	TER01	Parana,Brazil	28.5318S	49.1291W	315	From 2011-01-30
Tubingen	TUB	Baden-Wurttemberg,Germany	48.5269N	9.0611E	330	From 1933-01-01 to 1971-12-31
Tubuai	TBI	Tubuai,French Polynesia	23.3489S	149.4608W	20	From 1976-01-01
Tuckaleechee Caverns	TKL	Tennessee,U.S.A.	35.6580N	83.7740W	350	From 1978-07-30
Tucker Farm, Meadow	Z28A	Texas,U.S.A.	33.2884N	102.3866W	1045	From 2009-01-27 to 2010-12-04
Tucson	TUC	Arizona,U.S.A.	32.3098N	110.7847W	910	From 1962-12-17
Tucson Desert	TDM	Arizona,U.S.A.	32.2442N	111.1690W	866	From 1978-12-22
Tucson Observatory	TUO	Arizona,U.S.A.	32.2467N	110.8350W	770	From 1909-01-01
Tucson--Telemeter	TUT	Arizona,U.S.A.	32.3350N	110.7230W	1439	From 1958-01-05 to 1962-01-31
Tucuman	TCM	Tucuman,Argentina	26.8000S	65.2000W	475	
Tucurui	TUCB	Para,Brazil	3.7341S	49.8255W	61	
Tuebingen-Lennartz	TUBL	Baden-Wurttemberg,Germany	48.5227N	9.0829E	215	From 2002-11-01
Tuguegarao	TLP	Luzon,Philippines	17.6523N	121.7600E		
Tugumak	WTUG	Alaska,U.S.A.	54.8477N	164.3858W	457	
Tuhingamata	TUTZ	North Island,New Zealand	38.7099S	175.9914E	614	From 1986-01-01 to 1990-07-02
Tuis	TUI	Costa Rica	9.8417N	83.5573W	1300	From 1984-03-17
Tukino	TUVZ	North Island,New Zealand	39.2677S	175.6542E	1446	From 1992-09-17
Tuktoyaktuk	TUK	Northwest Territories,Canada	69.4400N	133.0280W	10	From 1980-12-02 to 1982-07-20
Tuktoyaktuk	TKT	Northwest Territories,Canada	69.4325N	132.9960W	3	From 1982-07-28 to 1984-07-11
Tulancingo	TLX	Hidalgo,Mexico	20.0375N	98.4361W	2250	
Tulbagh	TUH	Cape Province,South Africa	33.2967S	19.1500E	190	
Tulcˆjn	ATUL	Ecuador	0.7723N	77.7230W	2303	From 2010-12-10
Tulcˆjn-Chalpatan Las Cuevas	TULM	Ecuador	0.7161N	77.7869W	3677	From 2012-08-09
Tulia	X29A	Texas,U.S.A.	34.4452N	101.7008W	1039	From 2009-01-23 to 2010-11-15
Tulsa	TUL	Oklahoma,U.S.A.	35.9106N	95.7925W	261	From 1961-07-01
Tulsa	TSO	Oklahoma,U.S.A.	36.1482N	95.8979W	210	From 1973-02-01 to 1974-04-29
Tu Ly	TLV	Vietnam	20.8790N	105.2600E	80	From 2002-05-01
Tumaco	TUMC	Colombia	1.8237N	78.7267W	50	
Tumaco	CTUM2	Colombia	1.8230N	78.7260W	89	
Tumaco, Batallon	CTUMA	Colombia	1.8240N	78.7450W	14	From 1997-02-17
Tuman	GRPR	Sakhalinskaya Oblast',Russia	43.9927N	145.7721E	140	From 2011-09-20
Tumbaco	QUT	Ecuador	0.2022S	78.3922W	2345	
Tumlingtar	TUML	Nepal	27.3208N	87.1950E	360	From 2001-10-10 to 2002-11-08
Tumrok	TUMR	Kamchatskaya Oblast',Russia	55.2830N	160.1460E	1213	From 2003-07-12
Tumrok D	TUMD	Kamchatskaya Oblast',Russia	55.2031N	160.3990E	486	From 2011-03-18
Tumut Pond Dam	TPND	New South Wales,Australia	35.9630S	148.3900E	1205	
Tumwater	TUM	Washington,U.S.A.	47.0150N	122.9080W	20	From 1958-05-01
Tunca	BO01	O'Higgins	34.3918S	71.0849W	262	From 2014-01-20
Tunceli	TNC	Turkey	39.1083N	39.5533E	1003	From 1973-09-14
Tunceli-Merkez	TNCL	Turkey	39.1146N	39.5422E	1192	From 2010-11-27
Tunduma	TDMT	Tanzania,United Republic of Tanzania	9.2962S	32.7712E	1590	From 1992-06-17
Tunduma	TUND	Tanzania,United Republic of Tanzania	9.2988S	32.7625E	1699	
Tunel del Cadi	CADI	Spain	42.3402N	1.8412E	1207	
Tungkwan	TUWA	Gansu,China	34.6167N	110.2833E	0	From 1955-01-01
Tungshih	TWQ	Taiwan region	24.2747N	120.8360E	443	From 1972-09-08
Tungsten Hills	MTUM	California,U.S.A.	37.3533N	118.5640W	1810	From 1984-12-15
Tungur	TUNR	Altayskiy Kray,Russia	50.1600N	86.3300E	850	
Tungurahua	TUNG	Ecuador	1.4182S	78.4455W	2774	From 1989-06-01 to 1992-12-30
Tungurahua volcano	BILB	Ecuador	1.4385S	78.4988W	2315	From 2006-08-18
Tungurahua Volcano	BPAT	Ecuador	1.5033S	78.4335W	3725	From 2007-08-01
Tungurahua Volcano	BRUN	Ecuador	1.4210S	78.4117W	2700	From 2007-07-01
Tungurcha	TUG	Amurskaya Oblast',Russia	57.2900N	121.5000E	345	
Tungusskii	AY3S	Sakha,Russia	64.2000N	146.3800E	1080	From 1971-06-01 to 1971-12-31
T'ung-yeun Feng	TYF	Shaanxi,China	34.5000N	109.0670E	365	
Tunis	TUN	Tunisia	36.8000N	10.1333E		
Tunkhannock	TU-PA	Pennsylvania,U.S.A.	41.5714N	76.1367W	366	From 1962-08-02 to 1962-10-05
Tunkhannock	TU-	Pennsylvania,U.S.A.	41.5714N	76.1367W	366	From 1962-08-02 to 1962-10-05
Tunnel	PIORA	Switzerland	46.5373N	8.7833E	817	From 2007-12-15
Tuntungan	TSI	Sumatera,Indonesia	3.5008N	98.5645E	0	From 1974-10-01
Tupik	TUP	Chitinskaya Oblast',Russia	54.4250N	119.9539E	650	
Tupiza	TPZ	Bolivia	21.4650S	65.7163W	2960	
Tura	TURI	Meghalaya,India	25.5500N	90.3333E	305	
TURA	TURA	Meghalaya,India	25.5168N	90.2242E	406	From 1975-06-01
Turbat	TURB	Pakistan	25.9800N	63.0100E	137	From 2007-11-10
Turbat	TUR	Kazakhstan	41.7333N	69.6500E		
Turgen	TGN	Kazakhstan	43.3070N	77.6380E	1410	From 1976-10-18
Turhal	TRHT	Turkey	40.3497N	36.1778E	1190	From 1992-01-01 to 1998-04-01
Turiamo	TURV	Venezuela	10.4500N	67.8400W	58	From 2002-11-14
Turikan	TNKS	Buryatiya,Russia	56.3870N	113.1160E	657	From 1981-08-12 to 1993-10-24
Turkey Creek	TRK	South Carolina,U.S.A.	33.1222N	79.7778W	10	From 1980-06-25
Turkoglu	TRKT	Turkey	37.3860N	36.8580E	515	From 1998-03-01
Turnbull Canyon	TCC	California,U.S.A.	33.9945N	118.0130W	299	From 1976-11-01 to 1999-08-25
Turner	TRM	Maine,U.S.A.	44.2597N	70.2551W	113	From 1977-01-01 to 1999-01-31
Turner Farm, Oroville	A08A	Washington,U.S.A.	48.9534N	119.2725W	1089	From 2006-09-14 to 2008-05-17
Turnu Rosu	TNR	Romania	45.6520N	24.2730E	519	From 1989-07-01
Turnu Rosu	TUU	Romania	45.6525N	24.2731E	519	From 1988-06-15
Turoa	TRVZ	North Island,New Zealand	39.2988S	175.5479E	2062	From 2005-03-16
Turquoise Mountain, Baker	TUQ	California,U.S.A.	35.4358N	115.9239W	1350	From 2002-05-02
Turtle Beach	SKTB	St Kitts,Saint Kitts and Nevis	17.2087N	62.6171W	46	From 2003-02-10
Turtle Mountain	TMDA	Alberta,Canada	49.5811N	114.3992W	1541	
Turtle Mountains	TTM	California,U.S.A.	34.3353N	114.8280W	1098	From 1974-04-01
Turunc	TURN	Turkey	36.8729N	28.6029E	28	From 2007-05-21
Turuntaevo	TRTB	Buryatiya,Russia	52.2300N	107.6300E	600	From 1999-08-01
Turuntaevo, Baikal	TRTS	Buryatiya,Russia	52.2230N	107.6490E	600	From 1999-08-01
Tuscania	TU1	Italy	42.4186N	11.8744E	166	
Tuscan Springs	LTCM	California,U.S.A.	40.2083N	122.1240W	257	
Tuscarora	TUS	New York,U.S.A.	43.1800N	78.9592W	165	From 1971-06-01 to 1974-03-31
Tustin Road	HTUM	California,U.S.A.	36.8272N	121.6429W	94	
Tutak	TUTA	Turkey	39.4019N	42.8137E	2154	From 2006-09-13
Tuttle Creek Reservoir	TCK	Kansas,U.S.A.	39.3848N	96.7225W	376	From 1977-08-15 to 2001-07-15
Tuxedo	TXNY	New York,U.S.A.	41.1775N	74.1887W	143	From 1990-01-01
Tuxtla Gutierrez	TGBT	Chiapas,Mexico	16.7768N	93.0895W	0	From 2009-02-16
Tuyen-Quang	TQV	Vietnam	21.8283N	105.2080E	35	From 1975-07-27
Tuzandepetl	TUIG	Campeche,Mexico	18.0339N	94.4227W	100	
Tuzla-Istanbul	TUZL	Turkey	40.8131N	29.2660E	13	From 2011-01-01
TV Hill, Hawthorne	TVH1	Nevada,U.S.A.	38.4574N	118.7658W	3136	
TV Kerman	TVBK	Iran	29.9860N	56.7612E	2886	From 2010-05-05
Tweed	H55A	Ontario,Canada	44.5505N	77.1829W	182	From 2012-11-16
Twentynine Palms	TN-CL	California,U.S.A.	34.1983N	115.9500W	533	From 1962-02-01 to 1962-05-03

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Twentynine Palms	TPC	California,U.S.A.	34.1058N	116.0490W	720	From 1972-05-05
Twin Buttes	YPTB	Wyoming,U.S.A.	44.5252N	110.8460W	2219	
Twin Lakes	TWL	California,U.S.A.	34.2783N	118.5940W	390	From 1971-11-01
Twin Peaks	TWN	California,U.S.A.	36.0527N	121.5070W	148	From 1973-12-17 to 1975-09-30
Twin Springs	TSV	Nevada,U.S.A.	38.2017N	116.1750W	1585	From 1965-01-01 to 1972-12-31
Twissleman Ranch	PTRM	California,U.S.A.	35.6547N	120.2110W	643	
Twist	TWAR	Arkansas,U.S.A.	35.3614N	90.5597W	61	
Two Rivers School, Snoqualmie Valley	SVTR	Washington,U.S.A.	47.4958N	121.7816W	146	From 2002-09-20
Tymovskoe	TYV	Sakhalinskaya Oblast',Russia	50.8630N	142.6560E	160	From 1969-01-01
Tynda	TNDR	Sakha,Russia	55.1470N	124.7210E	534	From 2001-06-20
Tyneside	TYNO	Ontario,Canada	43.0950N	79.8702W	205	From 1991-07-18
Tyrgan	TRG	Irkutskaya Oblast',Russia	52.7600N	106.3481E	718	
Tyson Valley	TYS	Missouri,U.S.A.	38.5268N	90.5660W	195	From 1974-02-19
Tytingvag	N2B7	Norway	61.8990N	5.0940E	15	
Tytingvag	N2B1	Norway	61.9000N	5.0960E	75	
Tyubelyakh	UL1S	Sakha,Russia	65.3720N	143.1500E	380	From 1988-01-01 to 1988-12-31
UABC, Campus Mexicali	UABX	Baja California,Mexico	32.6316N	115.4447W	44	
Uakit	UKT	Buryatiya,Russia	55.4889N	113.6269E	1140	
U Bar Ranch, Lordsburg	120A	New Mexico,U.S.A.	32.5466N	108.6330W	1528	From 2008-02-02 to 2009-12-10
Ubatuba-SP	SLP01	Sao Paulo,Brazil	23.3243S	45.1559W	1117	From 2011-01-30
Ubbergen	NE37	Netherlands	51.8351N	5.9050E	30	
Ubonrachathani	UBT	Thailand	15.2456N	105.0183E		From 1993-12-01
Uccle	UCC	Belgium	50.7983N	4.3594E	105	
Uchkent	UKTR	Dagestan,Russia	43.1139N	47.0806E	120	
Uchtor	UCH	Kyrgyzstan	42.2275N	74.5134E	3850	
Ucluelet	B012	British Columbia,Canada	48.9246N	125.5420W	13	From 2005-09-20
U. Connecticut	UCCT	Connecticut,U.S.A.	41.7943N	72.2255W	223	
UCPARC, Winfield	Y47A	Alabama,U.S.A.	33.9025N	87.8494W	160	From 2011-04-13 to 2013-02-03
Ucria	MUCR	Sicily,Italy	38.0429N	14.8738E	1036	From 2011-02-03
Udbina	UDBI	Croatia	44.5279N	15.7644E	807	From 2009-06-19
Uddeholm	UDD	Sweden	60.0900N	13.6067E	240	
Udhampur	UDP	Jammu and Kashmir,India	32.9017N	75.0800E		
Udine	UDN	Italy	46.0650N	13.2367E	100	From 1976-06-01 to 1978-12-31
Udine OGS	UDI	Italy	46.0650N	13.2367E	112	From 1977-06-24 to 1990-05-05
Ueberruh	UBR	Baden-Wurttemberg,Germany	47.6807N	10.1080E	890	From 1994-01-01
Uelen temporary site, Chukotka	YLNS	The Chukotsky Autonomous Okrug,Russia	66.1590N	169.8056W	28	From 2006-07-17 to 2006-07-26
Ufa	UFA	Bashkortostan,Russia	54.8000N	56.0000E	0	
Ufford	KUF	England,United Kingdom	52.6175N	0.3894W	35	From 1988-01-01
Ugakei	UGK	Mie,Japan	35.0967N	136.4729E	290	
Ugak Island	UGI	Alaska,U.S.A.	57.3945N	152.2820W	213	
Ugashik Lake	UKL	Alaska,U.S.A.	57.4017N	156.8550W	410	From 1975-10-01 to 1999-08-25
Ugashik Lake	USL	Alaska,U.S.A.	57.3983N	157.0300W	500	
Uglegorsk	UGL	Sakhalinskaya Oblast',Russia	49.0780N	142.0660E	40	
Uglovaya	UGLR	Kamchatskaya Oblast',Russia	53.2089N	158.8239E	1140	
Ugurusu	URS	Kochi,Japan	33.5376N	133.4890E	25	From 1957-06-01
UHE Balbina	BAUB	Brazil	1.9153S	59.4141W	143	From 1985-08-01
UHE Batalha	BAT2	Goias,Brazil	17.3580S	47.4720W	848	From 2012-08-01
UHE Belo Monte	ATM1	Para,Brazil	3.2885S	52.2249W	183	From 2012-02-15
UHE Belo Monte	BMO2	Para,Brazil	3.3474S	51.9887W	117	From 2012-02-15
UHE Belo Monte	BMO1	Para,Brazil	3.1546S	51.7558W	37	From 2012-02-15
UHE Cana Brava	CAN1	Goias,Brazil	13.4175S	48.0852W	380	From 2013-10-28
UHE Estreito - MA/TO	PAL2	Maranhao,Brazil	6.7478S	47.3273W	248	From 2010-10-20
UHE Funil - MG	FUN1	Minas Gerais,Brazil	21.1121S	44.9318W	922	From 2010-12-21
UHE Lajeado	LAJE	Tocantins,Brazil	9.9816S	48.3185W	294	From 2011-02-02
UHE Simplicio	SIM1	Rio de Janeiro,Brazil	22.0090S	42.9854W	392	From 2012-08-28
UHE Simplicio	SIM2	Rio de Janeiro,Brazil	21.9159S	42.8069W	345	From 2012-08-25
UHE Tucurui	TUC4	Para,Brazil	4.2514S	49.5368W	114	From 2011-03-23
UHE Tucurui	TUC3	Para,Brazil	4.2829S	49.9166W	152	From 2013-11-08
Uinta Basin Array	UBO	Utah,U.S.A.	40.3217N	109.5690W	1596	From 1970-04-01 to 1973-09-30
Uiryeong-eup	EURB	Republic of Korea	35.3227N	128.2880E	-42	From 2012-11-10
Uitikon, ZR	EWZT3	Switzerland	47.3758N	8.4551E	646	From 2009-08-27
Ujela	LUJL	Libya	29.1192N	21.3027E	95	
Uji	UJI	Kyoto,Japan	34.8666N	135.8269E	290	
Ujung Watu	UWJI	Jawa,Indonesia	6.4191S	110.9474E	62	From 2005-01-01
Ukalunda	UKAQ	Queensland,Australia	20.8976S	147.1274E	250	From 1984-03-28
Ukamas	ARMS	Namibia	28.0400S	19.7400E	828	
Ukiah	UKI	California,U.S.A.	39.1372N	123.2110W	199	From 1931-09-01
Ukiah	UK-	Oregon,U.S.A.	45.0931N	118.8986W	1311	From 1963-02-08 to 1963-03-01
Ukiah	UK-OR	Oregon,U.S.A.	45.0931N	118.8986W	1311	From 1963-02-08 to 1963-03-01
Ukrul	UKHR	Manipur,India	25.0450N	94.2123E	40	From 2012-01-01
Ulaanbaatar	ULN	Mongolia	47.8652N	107.0528E	1615	
Ulaangom	ULG	Mongolia	49.9600N	92.0600E	980	
Ulagan, Altay Republic, Russia	ULGR	Altayskiy Kray,Russia	50.6234N	87.9607E	1239	From 2002-07-28
Ulahol	ULHL	Kyrgyzstan	42.2456N	76.2417E	2040	
Ulamona	ULO	New Britain,Papua New Guinea	5.0590S	151.3030E	980	From 1981-12-09
Ulamona	ULA	New Britain,Papua New Guinea	5.0064S	151.2560E	10	
Ulan Bator	OBM	Mongolia	47.9200N	106.9700E	1330	
Ulan-Yde	UUDB	Buryatiya,Russia	51.8670N	107.6630E	600	From 1996-02-01
Ulba	ULBA	Ecuador	1.4493S	78.4077W	2960	
Ulba Tungurahua	BULB	Ecuador	1.4372S	78.4097W	2989	From 2008-07-17
Ulba Tungurahua	BBIL	Ecuador	1.4500S	78.4875W	2690	From 2008-07-01
Ulcinj	ULC	Montenegro	41.9636N	19.2445E	504	From 1983-12-25
Uljin	KSULJ	Republic of Korea	36.7021N	129.4084E	77	From 2000-12-18
ULJIN	UJN	Republic of Korea	36.9918N	129.4129E	92	From 2007-11-29
Ulkokalla	OBF8	Finland	64.3310N	23.4460E	10	From 2013-08-01
Ulladulla High School, Ulladulla	AUUHS	New South Wales,Australia	35.3600S	150.4700E	44	From 2013-09-12
Ulleungdo	KSULL	Republic of Korea	37.4736N	130.9008E	218	From 1998-04-28
Ulleungdo bore hole	ULLB	Republic of Korea	37.5404N	130.9170E	0	From 2006-12-31
ULLUNGDO	UL1	Republic of Korea	37.3193N	130.8778E	-2188	From 2006-12-30
Ulsan	KSULS	Republic of Korea	35.5543N	129.3203E	34	From 2000-03-07
Ulsan	KSUSN	Republic of Korea	35.7024N	129.1232E	238	From 2007-12-12
ULSEONG	KSEUS	Republic of Korea	36.3519N	128.6870E	81	From 2000-11-21
Uludag	ULDT	Turkey	40.1422N	29.1361E	1734	From 1996-04-01
Ulysses	S29A	Kansas,U.S.A.	37.6199N	101.1180W	931	From 2009-04-11 to 2011-03-14
Ulyunkhan	YLYR	Buryatiya,Russia	54.8761N	111.1617E	560	
Umaji	UMJ	Kochi,Japan	33.5462N	134.0470E	320	
Umak	AD2	Alaska,U.S.A.	51.9033N	176.0180W	381	From 1974-01-01 to 1992-02-01
Umberatana	UMB	South Australia,Australia	30.2400S	139.1281E	610	From 1967-06-01
Umea	UME	Sweden	63.8150N	20.2367E	16	From 1962-01-25 to 2004-12-23
Umeaa	UMAU	Sweden	63.8829N	20.6779E	20	From 2002-01-13
Umejima	UMJE	Yamanashi,Japan	35.1928N	138.4979E	250	
Umerkot	UMKT	Pakistan	25.3300N	69.7100E	29	From 2006-03-25
UM Field Station, Abbeville	X45A	Mississippi,U.S.A.	34.4241N	89.3931W	142	From 2011-05-16 to 2013-02-07
Umm Al-Quwin	UMQ	Umm Al-Quwain,United Arab Emirates	25.5252N	55.6623E	28	
Umm Al-Rimmam	UMR	Kuwait	29.5519N	47.7158E	82	
Umm Al-Ruwaisat	RST	Kuwait	29.5003N	46.9972E	218	
Umm Lajj	UMJS	Saudi Arabia	25.2323N	37.3109E	250	
Umm Shaghir	ASHG	Egypt	23.2655N	31.6576E	340	
Umpang Tak	UMPA	Thailand	16.2057N	98.8603E	403	
Umpqua	J02A	Oregon,U.S.A.	43.3654N	123.5747W	136	From 2005-11-16 to 2007-11-29
Umpqua Community College DOGAMI SMO	UMPQ	Oregon,U.S.A.	43.2909N	123.3319W	162	From 2005-04-27
Umpqua National Forest, Toketee	J04A	Oregon,U.S.A.	43.2406N	122.1093W	1952	From 2006-10-31 to 2007-10-30
Umpqua National Forest, Toketee, OR	J04D	Oregon,U.S.A.	43.2405N	122.1093W	1948	From 2009-10-09
Umtata	UMT	Cape Province,South Africa	31.5833S	28.7550E	800	From 1988-08-01 to 1999-08-25
Unac-Piva	UPM	Montenegro	43.2031N	18.9051E	1770	From 2003-07-11
Unalakleet	UNL	Alaska,U.S.A.	63.8933N	160.6870W	91	
Unalaska	UNA	Alaska,U.S.A.	53.8733N	166.5330W		From 1954-04-06 to 1956-09-10
Unalaska Valley	UNV	Alaska,U.S.A.	53.8465N	166.5020W	67	
Unciti	IUNC	Spain	42.7559N	1.4989W	766	From 2005-07-22
Uncukul	UNCR	Dagestan,Russia	42.7139N	46.7944E	650	
Underwood Farm, Alliance	L26A	Nebraska,U.S.A.	42.0367N	103.0795W	1248	From 2008-11-24 to 2010-10-05
Undues	YUND	Spain	42.5768N	1.1331W	872	From 2010-05-01
Undu Point	UDU	Fiji	16.1521S	179.9880W	170	From 1981-11-01
Union	146A	Mississippi,U.S.A.	32.6368N	89.0573W	164	From 2011-03-23 to 2013-01-29
Union Grove	UGRT	Tennessee,U.S.A.	35.6109N	84.1170W	302	From 1983-11-05
Union Juarez	MUX	Chiapas,Mexico	15.0790N	92.0740W		
Union Valley	UYO	Oklahoma,U.S.A.	34.1667N	94.4588W	231	From 1989-04-15
Unionville	UVN	Nevada,U.S.A.	40.4423N	118.1580W	1926	From 1964-09-13 to 1969-12-31
Unionville	UVN1	Nevada,U.S.A.	40.4500N	118.1500W	1870	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Univ. Columbia	EPMB	British Columbia,Canada	51.0633N	118.5400W	2150	
Univ de Panama	UPD1	Panama	8.5487N	78.0135W	74	
Univ. de Panama@15	UPA	Panama	8.9810N	79.5338W	41	From 1983-08-01
Universidad Adolfo Iba^–ez	MT03	Metropolitana	33.4937S	70.5102W	1086	From 2013-07-10
Universidad Complutense Madrid	UCM	Spain	40.3077N	3.2442W	600	From 2010-03-01
Universidad de Guanajuato	UGO	Jalisco,Mexico	21.0170N	101.2555W		
Universidad de la EARTH en Liberia	NY14	Costa Rica	10.6482N	85.5337W	72	
Universidad de los Andes	UAV	Venezuela	8.6100N	71.1450W	1600	From 1969-08-01
Universidad Nacional Autonoma de Honduras	UNAH	Honduras	14.0750N	87.1750W	1020	
Universidad Nacional Autonoma de Mexico	UNM	Mexico D.F.,Mexico	19.3290N	99.1780W	2257	From 1967-06-04
Universidad Technlogica Nacional Mendoza	UTNM	Mendoza,Argentina	32.8968S	68.8532W	771	From 2012-01-01
Universidad t^'cnica Particular de Loja	LOJ1	Ecuador	3.9900S	78.3600W	1554	
Universita' Del Sannio	BENI	Italy	41.1298N	14.7716E	75	
University, Bengkulu	UBSI	Sumatera,Indonesia	3.7611S	102.2714E	28	
University Campus, Patras University	UPR	Greece	38.2836N	21.7864E	140	From 2006-04-14
University New Hampshire, Durham	DUNH	New Hampshire,U.S.A.	43.1370N	70.9350W	60	From 2011-05-04
University of Arizona	UOA	Arizona,U.S.A.	32.2331N	110.9530W	741	From 1972-04-01 to 1974-04-30
University of Arkansas, Little Rock	UALR	Arkansas,U.S.A.	34.7751N	92.3429W	138	
University of California, Santa Cruz	JUCM	California,U.S.A.	37.0012N	122.0485W	177	From 1975-01-29
University of California Stadium	CMSB	California,U.S.A.	37.8719N	122.2517W	-72	From 1995-01-01 to 2011-04-13
University of Cincinnati	UOCO	Ohio,U.S.A.	39.1400N	84.5220W	226	
University of Connecticut	UCT	Connecticut,U.S.A.	41.8317N	72.2506W	149	
University of Iquique	UNAP	Chile	20.2439S	70.1404W	0	From 2009-05-14
University of Johannesburg	UNJO	South Africa	26.2635S	27.9207E	1683	From 2010-01-01
University of Jordan, Amman	UNJ	Jordan	32.0158N	35.8708E	1050	
University of Michigan	AAMC	Michigan,U.S.A.	42.2780N	83.7360W	250	
University of New Brunswick	UNB	New Brunswick,Canada	45.9462N	66.6442W	64	From 1971-04-01
University of New Hampshire, Durham, NH	UNH	New Hampshire,U.S.A.	43.0926N	70.8650W	4	From 2013-11-26
University of Puget Sound	UPS	Washington,U.S.A.	47.2639N	122.4836W	113	
University of Richmond	URVA	Virginia,U.S.A.	37.5709N	77.5357W	49	
University of Southern California	USC	California,U.S.A.	34.0192N	118.2860W	17	From 1993-01-01
University of Southern Indiana	USIN	Indiana,U.S.A.	37.9651N	87.6660W	170	
University of Tennessee at Martin	UTMA	Tennessee,U.S.A.	36.2930N	88.9760W	108	From 1985-11-01
University of Tennessee at Martin	UTMT	Tennessee,U.S.A.	36.3423N	88.8642W	120	
University of Tennessee at Martin	UTM	Tennessee,U.S.A.	36.2900N	88.9410W	108	From 1982-08-12 to 1985-12-31
University of Toledo	UTLO	Ohio,U.S.A.	41.6590N	83.6180W	178	
University of Toledo	UTO	Ohio,U.S.A.	41.6619N	83.5743W	179	From 1977-12-20
University of Washington Friday Harbor	UWFH	Washington,U.S.A.	48.5459N	123.0132W	10	From 2001-08-02
University of Western Ontario	UWOO	Ontario,Canada	43.0110N	81.2724W	248	
University of Wisconsin at Milwaukee	UWM	Wisconsin,U.S.A.	43.0795N	87.8784W	204	
Unterbreizbach	UBBA	Hessen,Germany	50.8188N	10.0010E	-526	
Unzen dake	UNZ	Nagasaki,Japan	32.7400N	130.2650E	678	
Uoyan	YOA	Buryatiya,Russia	56.1328N	111.7239E	500	
Upernavik	UPNG	Greenland	72.7848N	56.1408W	110	
Upice	UPC	Czech Republic	50.5074N	16.0121E	416	
Upington	UPI	Cape Province,South Africa	28.3620S	21.2527E	845	From 1993-05-01
U. Pittsburgh - Allegheny Obs.	UPAO	Pennsylvania,U.S.A.	40.4821N	80.0216W	274	
Upper Baezaeko River	UBRB	British Columbia,Canada	52.8918N	124.0832W	1241	From 2007-10-16
Upper Bighouse, Forsinard	BIGH	Scotland,United Kingdom	58.4933N	3.9105W	70	From 2009-06-01
Upper Falls	YUF	Wyoming,U.S.A.	44.7126N	110.5117W	2394	
Upper Santa Misericordia	UMS	Luzon,Philippines	13.2480N	123.7320E	330	
Uppsala	UPP	Sweden	59.8583N	17.6267E	14	
'Uqlat as Suqur	UQSK	Saudi Arabia	25.7890N	42.3600E	950	From 1990-05-23
Ura	KV91	Miyazaki,Japan	32.0131N	130.8031E	308	
Urahoro	URH	Tokachi,Japan	42.9270N	143.6744E	120	
Urakawa	URA	Hidaka,Japan	42.1583N	142.7817E	30	
Urakawa 2	URAJ	Hidaka,Japan	42.2247N	142.7050E	40	From 1991-06-07
Urakawa 3	URA3	Hidaka,Japan	42.2428N	142.6672E	30	From 1993-12-10
Urakawa-nobuka	JNBK	Hidaka,Japan	42.2800N	142.7527E	115	From 2002-03-19
Urasar	KYB	Armenia	40.9733N	44.2650E	1620	
Urasca	URSC	Costa Rica	9.8350N	83.7782W	1500	
Ura-Tyube	URT	Tajikistan	39.9167N	69.0167E		From 1970-01-01
Uravakonda	URV	Andhra Pradesh,India	14.9469N	77.2597E	472	From 2008-10-01
Uravi	URAV	Georgia,Georgia	42.6437N	43.2899E	869	From 2007-08-28
Urbana	N47A	Indiana,U.S.A.	40.8801N	85.6942W	252	From 2012-09-04
Urcuqui	URCU	Ecuador	0.4385N	78.2557W	3262	From 2010-05-03
Urd^¤s	URDF	Aquitaine,France	43.4383N	0.5931W	120	From 2012-06-01
Ureshino	JUR	Nagasaki,Japan	33.0932N	129.9490E	160	
Urewera	URZ	North Island,New Zealand	38.2593S	177.1109E	95	From 1990-10-09
Urfa	URFA	Turkey	37.4410N	38.8213E	938	From 2004-12-02
Urgal	URG	Khabarovskiy Kray,Russia	51.0986N	132.3639E	0	
Uribe, Santander	URB	Colombia	7.2375N	73.3338W	834	From 2009-09-01
Uribia, Colombia	URIC	Colombia	11.7017N	71.9925W	68	From 2009-02-01
Urkarakh	URKR	Dagestan,Russia	42.1656N	47.6333E	1300	
Uruapan	URUA	Michoacan,Mexico	19.4217N	102.0740W	1680	From 2009-02-16
Urumqi	WMQ	Xinjiang Uygur Zizhiqu,China	43.8211N	87.6950E	897	
Usagre, Badajoz	E029	Spain	38.4397N	6.1831W	593	From 2007-09-07 to 2009-06-02
U¯ak-Merkez	USAK	Turkey	38.7143N	29.0181E	721	From 2013-02-20
US Embassy, Port-au-Prince	NQUSE	Haiti	18.5640N	72.2482W	78	
Usha	KMN1	Pakistan	35.5370N	72.6670E	2245	From 2012-01-01
Ushuaia	USHA	Tierra del Fuego,Argentina	54.8319S	68.4333W	107	From 2003-12-19
Ushuaia	USHU	Tierra del Fuego,Argentina	54.8433S	68.5569W	12	
USHUAIA INFRASONIC ARRAY REFERENCE POINT	I02AR	Tierra del Fuego,Argentina	54.5806S	67.3092W	94	From 2006-05-04
Uspallata	AUSP	Mendoza,Argentina	32.2235S	69.3872W	2502	
Ussuriysk Ar. Beam Pt.	USRK	Russia	44.1998N	131.9888E	170	From 2008-10-13
Ussuriysk Array Site A0	USA0	Russia	44.1998N	131.9888E	115	From 2008-10-13
Ussuriysk Array Site A0B	USA0B	Primorskiy Kray,Russia	44.1999N	131.9887E	115	From 2008-10-13
Ussuriysk Array Site A1	USA1	Russia	44.2038N	131.9885E	105	From 2008-10-13
Ussuriysk Array Site A2	USA2	Russia	44.1970N	131.9953E	95	From 2008-10-13
Ussuriysk Array Site A3	USA3	Russia	44.1964N	131.9867E	115	From 2008-10-13
Ussuriysk Array Site B1	USB1	Russia	44.2163N	131.9915E	125	From 2008-10-13
Ussuriysk Array Site B2	USB2	Russia	44.1975N	132.0147E	85	From 2008-10-13
Ussuriysk Array Site B3	USB3	Russia	44.1827N	131.9996E	85	From 2008-10-13
Ussuriysk Array Site B4	USB4	Russia	44.1916N	131.9720E	85	From 2008-10-13
Ussuriysk Array Site B5	USB5	Russia	44.2105N	131.9710E	105	From 2008-10-13
USSURIYSK INFRASONIC ARRAY REFERENCE POINT	I39RU	Primorskiy Kray,Russia	44.1999N	131.9773E	150	From 2008-11-10
Ussuryisk	USK	Primorskiy Kray,Russia	44.2833N	132.0831E	0	
Ust'-Elegest	UER	Tyva,Russia	51.5630N	94.0870E	660	
Ustica	USI	Sicily,Italy	38.7079N	13.1791E	285	
Ust'-Kan	UKR	Altayskiy Kray,Russia	50.9370N	84.7730E	1100	
Ust'-Maya	USMR	Sakha,Russia	60.4200N	134.5400E	170	
Ust'-Nera	UNR	Sakha,Russia	64.5700N	143.2283E	485	
Ust'Nera (new)	UNR1	Sakha,Russia	64.5662N	143.2422E	485	From 1992-07-01
Ust'-Nyukzha	USZ	Amurskaya Oblast',Russia	56.5617N	121.5917E	415	
Ust'-Omchug	USO	Magadanskaya Oblast',Russia	61.1500N	149.6333E		
Ust' Urkima	UURS	Amurskaya Oblast',Russia	55.3100N	123.1600E	540	
Usu Kazan Kan	UVO	Iburi,Japan	42.5569N	140.8457E	143	
Usuki	JUS	Oita,Japan	33.0657N	131.7507E	140	
Utah State Capitol	CAPU	Utah,U.S.A.	40.7785N	111.8900W	1384	
UT Block 9, Goldsmith	228A	Texas,U.S.A.	32.1180N	102.5918W	954	From 2009-02-10 to 2010-12-08
Utesnoe	ZLDR	Sakhalinskaya Oblast',Russia	46.6520N	142.3630E	38	From 1989-06-22
Utesnoe	UTSR	Sakhalinskaya Oblast',Russia	46.6080N	143.0730E	162	From 1973-07-01 to 1992-03-10
Uthaitani	UTHA	Thailand	15.5586N	99.4451E	128	
Utla	UTL	Pakistan	34.2710N	72.6840E	1171	From 1973-08-23
Utowana Lake	UWL	New York,U.S.A.	43.8378N	74.5433W	561	From 1974-07-01 to 1981-12-31
Utrecht	NE05	Netherlands	52.0880N	5.1720E	2	From 1982-03-01 to 2001-08-21
Utsunomiya	UTSU	Tochigi,Japan	36.5470N	139.9170E	110	From 1962-02-01
Utsunomiya	UTS	Tochigi,Japan	36.5467N	139.8717E	120	
Uttaradit	UTTA	Thailand	17.7443N	100.5541E	62	
Utuhina	UTU	North Island,New Zealand	38.1766S	176.1938E	351	From 1986-07-10
Utxeti	IUSE	Spain	42.9469N	1.5478W	870	From 2005-07-22
Uummannaq	UMM	Greenland	70.6770N	52.1250W	48	
Uvalde	632A	Texas,U.S.A.	29.5071N	99.7863W	420	From 2009-02-24 to 2011-01-21
Uvinza	UVZA	Tanzania,United Republic of Tanzania	5.1048S	30.3935E	994	
Uvira	UVI	Democratic Republic of the Congo	3.4000S	29.1167E	950	From 1955-01-01
Uwa jima	UWA	Ehime,Japan	33.2250N	132.5580E	44	
Uwa jima 2	UWA2	Ehime,Japan	33.2137N	132.6245E	450	From 1993-02-01
Uwe@18kahuna Bluff	UWB	Hawaii,U.S.A.	19.4247N	155.2780W	1091	
Uwekahuna	UWE	Hawaii,U.S.A.	19.4211N	155.2930W	1240	From 1930-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Uyuni	UYUN	Bolivia	20.4619S	66.7469W	3936	From 1994-06-27 to 1995-05-04
Uzd	UZD	Hungary	46.5925N	18.5818E	207	From 1987-01-01 to 1993-12-31
Uzhgorod	UZH	Ukraine	48.6310N	22.2930E	160	
Uzumlu	EUZM	Turkey	39.7072N	39.6976E	1250	From 2008-01-01
Uzumlu	UZU	Turkey	39.7086N	39.6981E	1500	
Uzunkopru-Edirne	UKOP	Turkey	41.1288N	26.6323E	70	From 2013-09-11
Uzuto	UZT	Hiroshima,Japan	34.5817N	133.1427E	230	
Uzynbulak	UZB	Kazakhstan	43.1470N	79.0220E	1560	From 2004-06-02
Vacheresse	OG01	Rhone-Alpes,France	46.3300N	6.6830E	1040	
Vackov	VAC	Czech Republic	50.2354N	12.3772E	530	From 2000-08-30
Vackovec	VACK	Czech Republic	50.1414N	12.4727E	457	
Vaenersborg	VANU	Sweden	58.4921N	12.0727E	50	From 2006-07-26
Vaermlandsnaes	NASU	Sweden	58.9278N	13.1862E	50	From 2006-05-10
Vaestervik	VSTU	Sweden	57.6600N	16.5363E	30	From 2002-05-04
Vaexsjoe	VXJU	Sweden	56.9212N	14.9391E	190	From 2002-10-23
Vagar	FVA	Faeroe Islands	62.0757N	7.3520W		
Vaihoa	VAH	Tuamotu,French Polynesia	15.2364S	147.6272W	2	
Vajepar	VJP	Gujarat,India	23.5600N	70.5000E	6	From 2012-01-01
Vajont	VAJ	Italy	46.2667N	12.3300E	725	
Valaam	VALR	Karel'skaya	61.3593N	30.8835E	39	From 2006-06-18
Valandovo	VAY	FYR Macedonia	41.3211N	22.5701E	168	From 1969-01-01
Valbona	VALM	Italy	44.3490N	10.2472E	790	From 1999-03-01
Valcebollere	VALF	Languedoc-Rousillon,France	42.4018N	2.0173E	1580	From 1998-11-25
Val dAran	CARA	Spain	42.7076N	0.8181E	1627	From 2011-11-15
Valdeflores	VDF	Oaxaca,Mexico	16.7610N	96.8220W		
Val Des Bois	VABQ	Quebec,Canada	45.9047N	75.6079W	210	From 2010-11-29
Val-des-Bois,QC	VDBQ	Quebec,Canada	45.9277N	75.5697W	204	From 2010-06-24
Valdez	VLZ	Alaska,U.S.A.	61.1315N	146.3320W	10	From 1971-09-02
Valdez	VLD	Alaska,U.S.A.	61.1175N	146.2640W	61	
Valdez South	VZS	Alaska,U.S.A.	61.0442N	146.3050W	668	From 1972-07-22 to 1976-03-27
Valdez West	VZW	Alaska,U.S.A.	61.0590N	146.5540W	796	From 1972-07-17 to 1998-12-31
Valdichiascio	AA02	Italy	43.2655N	12.5751E	650	From 2011-02-08
Val di Lei	VDL	Switzerland	46.4832N	9.4496E	1927	From 1979-09-11
Valdivia	VLV	Valdivia,Chile	39.7900S	73.2764W	12	From 1967-08-01
Valdivia	VLCH	Valdivia,Chile	39.8060S	73.2460W	12	
Val d'Or	VDQ	Quebec,Canada	48.2300N	77.9717W	305	From 1980-12-09
Val d'Or	VLDQ	Quebec,Canada	48.1124N	77.4536W	93	
Val d'Or	VALQ	Quebec,Canada	48.1290N	77.5610W	245	
Valea Ierii	VLR	Romania	46.6542N	23.3547E	1080	From 1982-09-01 to 1989-01-01
Valencia Peak Digital	VPDC	California,U.S.A.	35.2399N	120.8690W	435	
Valentia	VAL	Ireland	51.9394N	10.2442W	14	From 1962-10-23
Valguarnera	VAE	Sicily,Italy	37.4783N	14.4119E	690	
Valinhos	VAO	Sao Paulo,Brazil	23.0022S	46.9658W	840	
Valkenburg	VKB	Netherlands	50.8669N	5.7847E	90	From 1996-09-10
Valkenburg	NE15	Netherlands	50.8670N	5.7850E	100	From 1984-06-01 to 2001-07-28
Valle Agricola	VAGA	Italy	41.4154N	14.2342E	795	From 2005-03-15
Valle Caidos	NE12	Spain	40.6420N	4.1550W	1280	From 1983-05-01 to 1985-02-28
Vallecito	CVLM	California,U.S.A.	37.6263N	121.8360W	245	From 1979-11-14
Valle de Chalco	VCVM	Mexico D.F.,Mexico	19.2980N	98.9545W	2224	From 2008-02-07
Valle de Guanape	GUAN	Venezuela	9.9575N	65.6478W	1107	From 1984-01-01
Valle D.L. Mare	JVM	Channel Islands,United Kingdom	49.2169N	2.2068W	64	From 1981-01-01
Valle d'Ocre (Ocre)	T0105	Italy	42.3109N	13.4629E	685	From 2009-04-08 to 2009-11-26
Valledupar, Cesar	CVALL	Colombia	10.5080N	73.2580W	354	From 2010-06-05
Valle Fertil	AVFE	La Rioja,Argentina	30.6593S	67.4558W	910	
Valle Grande	BS08	Bolivia	18.4970S	64.1122W	2151	From 2011-11-21
Vallenar	VACH	Coquimbo,Chile	28.5755S	70.7588W	410	
Valley Desolation	DVDT	Dominica	15.3104N	61.3134W	960	
Valley Falls	K06A	Oregon,U.S.A.	42.7991N	120.2510W	1340	From 2006-01-29 to 2007-11-03
Valley Oaks Golf Course, Visalia	VOG	California,U.S.A.	36.3210N	119.3823W	90	From 2011-05-26
Valley of Fire, Overton	U12A	Nevada,U.S.A.	36.4321N	114.5388W	644	From 2006-06-21 to 2008-10-11
Valley Road Site	AVRM	California,U.S.A.	39.0248N	121.2680W	91	From 1976-07-15
Valley View	GVV	California,U.S.A.	39.7751N	122.6755W	1457	
Valmikinagar	VLK	India	27.3167N	83.8667E		
Val Nalps	NALPS	Switzerland	46.5951N	8.7483E	2296	From 2011-11-02
Valparaiso	VLP	Valparaiso,Chile	33.0258S	71.6411W	88	From 1973-01-01
Valparaiso	UTF	Valparaiso,Chile	33.0350S	71.6042W	50	
Valsamata	VLS	Greece	38.1772N	20.5897E	375	
Valverde	VVD	Canary Islands,Spain	27.8074N	17.9112W	540	From 1973-09-01 to 1985-02-28
Valverde	CVVD	Canary Islands,Spain	27.8208N	17.9361W	450	From 1985-02-01 to 1993-10-31
Valverde	EVAL	Spain	37.5842N	6.7475W	295	From 1985-03-01
Vamos	VAM	Crete,Greece	35.4069N	24.1997E	225	
Van	VANB	Turkey	38.5950N	43.3890E	1227	
Van	TVAN	Turkey	38.5286N	43.4061E	2008	From 2001-10-18
Van	VANT	Turkey	38.4210N	43.2653E	1750	From 1994-01-22
Van	VNT	Turkey	38.5169N	43.3844E	1804	From 1979-12-01 to 1999-08-25
Vanadzor	VANZ	Armenia	40.7910N	44.5280E	1200	
Vanand	VNNZ	Armenia	40.1030N	43.8230E	1020	
Van Buren	T42A	Missouri,U.S.A.	37.0301N	91.0927W	162	From 2011-08-14 to 2013-03-20
Vanda	VND	Victoria Land	77.5239S	161.6720E	150	From 1969-01-12 to 1971-02-01
Vanda	VNDA	Victoria Land	77.5172S	161.8528E	121	From 1986-12-04
Vandellos 2	VAN2	Spain	40.9531N	0.8266E	180	
Vanderhoof	SULB	British Columbia,Canada	53.2786N	124.3576W	1171	From 2006-09-05
Van Goodin Ranch	OGOM	California,U.S.A.	39.6537N	121.6120W	158	From 1976-12-28
Van Hill	VHTN	Tennessee,U.S.A.	36.3990N	82.8021W	630	From 1986-01-14
Vanikum	BA16	Nordrhein-Westfalen,Germany	51.0301N	6.6616E	81	From 2006-10-01
Van Inlet	VIB	British Columbia,Canada	53.2522N	132.5410W	1008	From 1985-09-01
VAN INLET T-PHASE SITE N1	H02N1	British Columbia,Canada	53.2519N	132.5419W	989	From 2006-11-20
Van-Muradiye	VMUR	Turkey	38.9894N	43.5716E	1717	From 2010-11-29
Vannovskaya	VAN	Turkmenistan	37.9480N	58.1080E	580	
Van/ˆzalp-Merkez	OZAP	Turkey	38.6614N	43.9928E	2058	From 2014-11-27
Vantage	VTG	Washington,U.S.A.	46.9579N	119.9885W	208	From 1970-07-01 to 2009-04-05
Vantage 2	VT2	Washington,U.S.A.	46.9672N	120.0003W	385	
Vanua Lava	VLN	Vanuatu	13.8867S	167.5420E	18	From 1975-11-20
Vaqueiros	PVAQ	Portugal	37.4037N	7.7173W	193	From 2006-12-23
Vara Blanca	VBL1	Costa Rica	10.1618N	84.1585W	1924	
Varagna	VARA	Italy	45.8260N	10.8965E	1735	From 2012-11-19
Varamin	IVRN	Iran	34.9954N	51.7273E	855	From 1996-01-01
Varanasi	VAR	Uttar Pradesh,India	25.3000N	83.0167E	88	
Vardanashen	VRNZ	Armenia	40.0490N	44.1910E	841	
Vardenis	VADZ	Armenia	40.1720N	45.7450E	2000	From 1983-01-01
Vardenis	VRD	Armenia	40.2200N	45.7000E	1930	
Vardenisi	VAD	Georgia,Georgia	40.1900N	45.7300E	530	
Vardzia	VRZG	Georgia,Georgia	41.3745N	43.2721E	1260	From 2003-01-01
Varese	VAI	Italy	45.8674N	8.7684E	1150	
Varese	VARE	Italy	45.8677N	8.7700E	1219	From 2009-10-07
Varian Well	VARB	California,U.S.A.	35.9261N	120.4471W	-61	
Varlezi	VARL	Romania	45.8996N	27.8487E	123	From 2013-11-19
Varmlds Nysat	VNY	Sweden	59.4040N	12.4820E	229	From 1980-01-01 to 1991-12-31
Varnville	VSC	South Carolina,U.S.A.	32.8792N	81.0500W	30	From 1974-05-20 to 1979-10-15
Varnville	VRN	South Carolina,U.S.A.	33.0375N	80.9417W	30	From 1979-10-15
Varrio	VRF	Finland	67.7480N	29.6090E	350	From 2007-10-01
Varto	VRT	Turkey	39.1310N	41.5290E	1930	
Varto-Mus	VRTB	Turkey	39.1603N	41.4558E	1500	From 2008-11-20
Vashon High School SMO	VVHS	Washington,U.S.A.	47.4235N	122.4549W	95	From 2001-09-20
VASILIKIADES	VSK1	Greece	38.4090N	20.5640E	315	From 2012-10-01
Vaslui	VASR	Romania	46.6415N	27.7911E	275	From 2013-11-19
Vassijaure	VAS	Sweden	68.4167N	18.1833E	469	
Vassilikiades, Cephalinia Isl.	VSK2	Greece	38.4091N	20.5640E	303	From 2012-09-01
Vassiliki, Lefkas Island	VAS2	Greece	38.6304N	20.6081E	2	From 2011-06-01
Vassouras	VASS	Rio de Janeiro,Brazil	22.3994S	43.6522W	448	From 1988-01-01
Vassouras-RJ	VAS01	Rio de Janeiro,Brazil	22.2801S	43.4426W	402	From 2011-01-30
Vasula	VSU	Estonia	58.4620N	26.7347E	63	
Vatnsfell	IVAT	Iceland	64.1870N	18.9180W	573	From 1998-04-20
Vatovaky	VTY	Madagascar	19.0759S	47.5386E	1423	From 1973-01-01
Vava'u	VAVA	Tonga	18.6640S	173.9770W	5	
Vaz, Muldain	SVAM	Switzerland	46.6934N	9.5260E	1273	From 1991-11-23
Veano	VEA	Italy	44.8893N	9.6190E	0	From 1982-01-01 to 2004-12-31
Veberod	VEB	Sweden	55.5990N	13.5160E	116	From 1980-01-01 to 1991-12-31
Veblen	F32A	South Dakota,U.S.A.	45.8705N	97.1264W	371	From 2010-10-24 to 2012-07-22

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Vedder Mountain	VDB	British Columbia,Canada	49.0261N	122.1030W	404	From 1983-01-04
Vedeno	DVE	Chechnya,Russia	42.9569N	46.1261E	800	From 2011-07-01
Vedriano (Canossa) - RE	RE03	Italy	44.5240N	10.3938E	545	From 2008-12-28 to 2009-02-12
Vega	W28A	Texas,U.S.A.	35.2574N	102.2063W	1156	From 2009-01-20 to 2010-11-14
Veis	IVIS	Iran	34.5264N	46.8496E	1135	From 2004-01-01
Velasquez	VLG	Guatemala	14.2405N	91.0077W	212	From 1980-07-01 to 1987-11-30
Velbert-Hespertal	HES	Germany	51.3670N	7.0420E	127	From 2008-10-01
Velez Rubio	VELZ	Spain	37.5838N	1.9880W	1000	
Veliai	VLI	Greece	36.7182N	22.9370E	220	From 1989-06-01
Veliko Turnovo	VETAM	Bulgaria	43.0805N	25.6367E	224	From 2012-11-20
Velka Javorina	JAVC	Czech Republic	48.8591N	17.6707E	827	
Vena	EVNA	Sicily,Italy	37.7958N	15.1402E	700	From 1994-10-01
Venator	VT-	Oregon,U.S.A.	43.1136N	118.4147W	1341	From 1962-01-16 to 1962-05-21
Venator	VT-OR	Oregon,U.S.A.	43.1136N	118.4147W	1341	From 1962-01-16 to 1962-05-21
Venebrugge	VBG	Netherlands	52.5447N	6.6704E	11	
Venebrugge (Bruchterveld)	VBG2	Netherlands	52.5440N	6.6693E	-81	From 2010-09-01
Venebrugge (Bruchterveld)	VBG1	Netherlands	52.5440N	6.6693E	-31	From 2010-09-01
Venebrugge (Bruchterveld)	VBG3	Netherlands	52.5440N	6.6693E	-131	From 2010-09-01
Venebrugge (Bruchterveld)	VBG4	Netherlands	52.5440N	6.6693E	-181	From 2010-09-01
Venecia	VENE	Costa Rica	10.3658N	84.2748W	380	
Venezia Lido	VENL	Italy	45.4167N	12.3771E	4	From 2014-06-10
Veniaminof	BPBCA	Alaska,U.S.A.	56.5897N	158.4526W	584	
Veniaminof 1	VNHG	Alaska,U.S.A.	56.2211N	159.1642W	966	
Veniaminof 2	VNFG	Alaska,U.S.A.	56.2857N	159.5511W	1068	
Veniaminof 3	VNNF	Alaska,U.S.A.	56.2837N	159.3160W	1153	
Veniaminof 5	VNKR	Alaska,U.S.A.	56.0312N	159.3678W	620	
Veniaminof 6	VNSG	Alaska,U.S.A.	56.1258N	159.0854W	761	
Veniaminof 7	VNSW	Alaska,U.S.A.	56.0719N	159.5585W	716	
Veniaminof 8	VNWF	Alaska,U.S.A.	56.1517N	159.5622W	1095	
Veniaminof 8	VNSS	Alaska,U.S.A.	56.2267N	159.4548W	1733	
Venice	VEN	Italy	45.4333N	12.3333E	1	
Ventotene	VENT	Italy	40.7947N	13.4217E	110	
Vera	EXVE	Spain	37.2420N	1.8570W	89	
Veracruz	POHV	Veracruz,Mexico	19.0688N	97.2803W	4150	From 1999-01-01
Veracruz	FARM	Veracruz,Mexico	19.6260N	96.3930W		
Veracruz	VCM	Veracruz,Mexico	19.2006N	96.1378W	3	
Veracruz	VER	Nicaragua	12.0897N	86.1712W	140	From 1977-01-01 to 1983-12-31
Veracruz	LIMM	Veracruz,Mexico	19.6803N	96.5281W	200	
Veracruz	CAMM	Veracruz,Mexico	19.5880N	96.4600W	190	
Veracruz	VEX	Baja California,Mexico	32.3612N	115.1050W		From 1981-10-21 to 1987-04-10
Veracruz	LVMM	Veracruz,Mexico	19.6014N	96.3955W	160	
Veracruz	MANM	Veracruz,Mexico	19.5900N	96.4167W	2	
Vera Road	VRZ	North Island,New Zealand	39.1243S	174.7585E	166	From 2003-11-26
Verde Repeater	VRDI	Alaska,U.S.A.	61.2280N	143.4524W	1880	
Verdigre	K32A	Nebraska,U.S.A.	42.6597N	97.9723W	512	From 2010-07-19 to 2012-04-27
Verdi Peak	VPK	California,U.S.A.	39.4747N	120.0370W	2469	
Verghereto (FC)	PR01	Italy	43.8481N	12.0606E	627	From 2011-05-25
Verhnyaya Amga	YVAM	Sakha,Russia	59.6409N	127.1227E	275	From 2011-06-17
Veris	VRZT	Georgia,Georgia	41.7094N	44.7886E	450	From 2003-01-01
Veris	VERG	Georgia,Georgia	41.7097N	44.7893E	420	From 2003-01-01
Verkhnechusovskiye Gorodki	PR0R	Permskiy Kray,Russia	58.1990N	57.1407E	121	From 2003-10-23
Verkhne-Kamchatsk	VEK	Kamchatskaya Oblast',Russia	54.6270N	158.4730E	160	
Verkhnyaya Baza	VEH	Kemerovskaya Oblast',Russia	53.2530N	90.3180E	1200	
Vermontville	K47A	Michigan,U.S.A.	42.6704N	84.9993W	275	From 2012-09-10
Vern	NYV	Nevada,U.S.A.	37.1128N	115.9900W	1442	From 1971-01-01 to 1973-01-31
Vernal	VNL	Utah,U.S.A.	40.4581N	109.5482W	1648	From 2005-10-25
Vernal	VN-UT	Utah,U.S.A.	40.5086N	109.5792W	1768	From 1961-10-20 to 1962-06-01
Vernal	VLU	Utah,U.S.A.	40.4464N	109.5150W	1605	
Vernal	VN-	Utah,U.S.A.	40.5086N	109.5792W	1768	From 1961-10-20 to 1962-06-01
Vernal Corners	VCS	New York,U.S.A.	42.8578N	78.1997W	488	
Verneugheol	VERF	Limousin,France	45.7495N	2.4838E	776	
Vernon	451A	Florida,U.S.A.	30.6160N	85.7467W	20	From 2012-02-03
Verona	VVMR	Italy	45.4709N	10.9938E	219	From 2010-10-10
Verrico (Montereale)	RM29	Italy	42.5606N	13.2023E	1276	From 2009-09-25 to 2010-03-03
Veseth Ranch, Zortman	C20A	Montana,U.S.A.	47.7133N	108.0042W	781	From 2008-08-24 to 2011-01-13
Vestal, Richgrove	VES	California,U.S.A.	35.8409N	119.0847W	154	From 1999-09-30
Vestmannaeyjar	IVME	Iceland	63.4270N	20.2939W	76	From 2012-10-12
Vestmannaeyjar	IVES	Iceland	63.4430N	20.2870W	55	From 2000-12-29
Vesuviano	OVO	Italy	40.8267N	14.3978E	606	From 1974-12-01
Vesuviano	OV1	Italy	40.8267N	14.3978E	606	From 1974-12-01
Vesuvio Array Permanente	VARP	Italy	40.8164N	14.4098E	661	From 2009-02-09
Vesuvio Bunker Nord	VBKN	Italy	40.8300N	14.4299E	951	From 2009-05-11
Vesuvio Cratere Est	VCRE	Italy	40.8190N	14.4314E	1125	From 2008-10-15
Vesuvio Tirone	VTIR	Italy	40.8059N	14.4243E	608	From 2009-06-19
Vesuvio Valle Del Gigante	VVDG	Italy	40.8356N	14.4238E	879	From 2009-09-07
Veterans Administration Hospital	CVAL	California,U.S.A.	37.6183N	121.7582W	201	From 1981-02-10
Vettahaugen	N1R1	Norway	66.2070N	13.7410E	690	
Vezirkopru	VEZ	Turkey	41.1305N	35.4627E	387	From 1976-09-01
Vialonga--Serves	PSRV	Portugal	38.8932N	9.0896W	345	
Vianden	LVIA	Luxembourg	49.9351N	6.2025E	252	From 1990-06-27
Vianos	EVIA	Spain	38.6386N	2.5025W	1110	From 1985-11-01
Vicchio	VMG	Italy	43.9617N	11.5439E	450	
Vickery Place, Crowley	135A	Texas,U.S.A.	32.5573N	97.4099W	270	From 2009-11-13 to 2011-09-08
Vicksburg	VBMS	Mississippi,U.S.A.	32.2185N	90.5177W	16	From 2007-04-26
Victor	R54A	West Virginia,U.S.A.	38.1809N	80.9904W	512	From 2013-01-12
Victor	E13A	Montana,U.S.A.	46.4423N	114.1880W	1257	From 2006-10-11 to 2009-06-11
Victor	VCMT	Montana,U.S.A.	46.4425N	114.1872W	1254	
Victoria	VICT	El Salvador	13.9596N	88.6384W	993	From 2013-01-18
Victoria	VCT	Romania	45.7250N	24.7010E	565	From 1989-04-01
Victoria	VIC	British Columbia,Canada	48.5194N	123.4150W	197	From 1898-01-01 to 1978-03-29
Victor Mine	VIMO	Ontario,Canada	52.8173N	83.7449W	78	
Victorville	VTV	California,U.S.A.	34.5606N	117.3296W	812	From 1993-04-16
Vida	C22A	Montana,U.S.A.	47.7456N	105.8841W	745	From 2008-09-07 to 2011-01-13
Vidalia	343A	Louisiana,U.S.A.	31.2839N	91.6169W	15	From 2011-02-24 to 2012-11-30
Vidin	PLVAM	Bulgaria	43.9523N	22.8502E	88	From 2012-11-20
Vidor	540A	Texas,U.S.A.	30.2093N	93.9796W	10	From 2010-05-23 to 2011-12-07
Vielha	VIH	Spain	42.6288N	0.7700E	1700	From 1986-01-01 to 2003-12-31
Vielle Casse Police Station	DVCT	Dominica	15.6144N	61.4061W	0	From 2004-09-18
Vienna	VKA	Austria	48.2650N	16.3183E	400	
Vienna	VIE	Austria	48.2483N	16.3617E	198	
Vieques	VQS	Puerto Rico	18.1467N	65.4483W	20	From 1903-09-01 to 1924-12-31
Viesci	RM23	Italy	42.5797N	13.0316E	942	From 2009-04-10 to 2009-06-18
Vietri Di Potenza	VDP3	Italy	40.6052N	15.5721E	959	
Vieux Emosson	EMV	Switzerland	46.0632N	6.8988E	2210	From 1981-11-18
Viey	VIEF	Midi-Pyrenees,France	42.8837N	0.0237E	1000	From 1996-10-24
Vigarano Mainarda (FE)	CAS02	Italy	44.8360N	11.4834E	5	From 2012-05-23
Vigarano Mainarda (FE)	CAS06	Italy	44.8203N	11.4918E	15	From 2012-05-24
Vigarano Pieve (FE) fraz. Diamantina	CAS04	Italy	44.8805N	11.5269E	14	From 2012-05-23
Viggianello (PZ)	T0701	Italy	39.9862N	16.1161E	881	From 2012-05-25
Viggiano	VIGE	Italy	40.3353N	15.9000E	800	
Viggiano	BVIG	Italy	40.3359N	15.9020E	849	From 2008-01-26
Viggiano (Prot.Civ.Gr.Lucano)	VGG3	Italy	40.3360N	15.9010E	882	
Vihanti	OBF5	Finland	64.4000N	25.3000E	80	From 2013-08-01
Vijayawada	VJD	Andhra Pradesh,India	16.5167N	80.6500E		
Vik	VIK	Iceland	63.4217N	19.1000W	19	
Vikbolandet	VIKU	Sweden	58.5017N	16.6992E	100	From 2002-02-05
Vikkela, Lumijoki	OBF4	Finland	64.8136N	25.1029E	40	From 2013-05-13
Vila Bisbo	PFVI	Portugal	37.1328N	8.8268W	189	From 1996-01-01
Vilada	VILA	Spain	42.1363N	1.8913E	400	
Vila Franca	VIF	Azores,Portugal	37.7448N	25.4397W	647	From 1981-01-01
Vila Nova	PVNV	Azores,Portugal	38.7619N	27.1559W	150	From 2003-03-01
Vila Real	PVRL	Portugal	41.2756N	7.7161W	660	From 1995-06-01
Vilhena	VILB	Rondonia,Brazil	12.9528S	60.2002W	434	From 2014-03-30
Vilia, Western Attica	VIL1	Greece	38.1650N	23.3268E	532	From 2008-11-27
Villa Celiera	VCEL	Italy	42.3946N	13.8406E	1185	From 2004-05-11
Villacollemandina	VLC	Italy	44.1594N	10.3864E	555	
Villa de Garcia	VNM	Nuevo Leon,Mexico	25.8433N	100.5942W		From 1989-12-01
Villa del Rosario	VIRV	Venezuela	10.5030N	72.4060W	157	From 2001-08-31
Villa di Villa	VVI	Italy	45.9819N	12.4281E	100	From 1987-06-10

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Villa Eilenroc - Antibes	EILF	France	43.5480N	7.1310E	30	From 2011-04-08
Villa El Salvador	PP09	Peru	12.2133S	76.9367W	100	
Villa Florida	CPUP	Paraguay	26.3306S	57.3292W	105	From 1994-07-21
VILLA FLORIDA INFRASONIC ARRAY REFERENCE POINT	I47PY	Paraguay	26.3423S	57.3119W	164	From 2003-03-19
Villa Grajales	VGM	Puebla,Mexico	19.2500N	97.7833W		
Villa Maderas	MADN	Nicaragua	11.4083N	85.5333W	50	
Villa Marinero	VMO	Oaxaca,Mexico	15.8512N	97.0638W	3	
Villa Mercy	VIL	Maryland,U.S.A.	39.0209N	77.1887W		
Villanova	VINO	Italy	46.2564N	13.2814E	608	
Villa Nueva	BS04	Bolivia	20.0563S	65.3427W	3323	From 2011-09-01
Villa O'Higgins	GO08	Chile	48.4648S	72.5566W	300	
Villa Park Dam	VPD	California,U.S.A.	33.8160N	117.7620W	183	From 1971-06-07
Villa Poma (MN)	MIR05	Italy	44.9808N	11.1072E	15	From 2012-05-23
Villaroger	OG12	Rhone-Alpes,France	45.5375N	6.9053E	1550	From 1993-11-12
Villasalto	VSL	Sardinia,Italy	39.4960N	9.3780E	370	
Villa Vallelonga	VVLD	Italy	41.8710N	13.6220E	1005	
Villavicencio, Colombia	VILC	Colombia	4.1120N	73.6935W	1109	From 2011-02-01
Villaviciosa de Cordoba, Cordoba	E021	Spain	38.0057N	4.9163W	609	From 2007-09-15 to 2009-06-17
Villefranche	VDCF	Languedoc-Rousillon,France	42.5908N	2.3656E	600	From 1989-01-01 to 1999-07-13
Ville Marie	VMC	Quebec,Canada	47.3167N	79.4500W		
Villemus	VILF	Provence-Cote d'Azur,France	43.8525N	5.7153E	770	
Villeneuve d'Entraunes	OG30	Rhone-Alpes,France	44.1095N	6.7775E	1350	From 1992-01-08
Villia	VILL	Greece	38.1642N	23.3122E	650	From 2009-10-12
Villiers-Adam	VDM	Ile-de-France,France	49.0743N	2.2318E	70	From 1983-11-01
Villiers-Adam	NE07	Ile-de-France,France	49.0743N	2.2318E	70	From 1983-11-01
Vimmerby	VIM	Sweden	57.7880N	16.0020E	151	From 1980-01-01
Vinca	VINC	Italy	44.1412N	10.1522E	737	From 1994-04-01 to 1999-12-31
Vinchina	VCA	La Rioja,Argentina	28.7363S	68.2056W	1500	From 1973-04-01
Vineyard	VIN	California,U.S.A.	36.7500N	121.3850W	330	From 1959-02-03 to 1966-03-09
Vineyard	BVYM	California,U.S.A.	36.7493N	121.4130W	585	From 1975-12-11
Vineyard Canyon	PVCM	California,U.S.A.	35.9221N	120.5350W	770	
Vineyard Canyon	VCAB	California,U.S.A.	35.9216N	120.5339W	555	
Vineyard--Telemeter	VIT	California,U.S.A.	36.7500N	121.3880W	360	From 1961-05-31 to 1965-02-10
Vinh	VIVB	Vietnam	18.6503N	105.6962E	6	From 2007-01-01
Vinh	VIV	Vietnam	18.5475N	105.7000E	5	
Vinh Tuy	VTVB	Vietnam	22.2527N	104.8987E	71	From 2008-01-01
Vinica-Bojanci	VBY	Slovenia	45.5045N	15.2566E	259	From 1986-10-30
Vinton	L39A	Iowa,U.S.A.	42.1234N	92.0007W	261	From 2011-06-13 to 2013-06-02
Vinton	VO-IO	Iowa,U.S.A.	42.2250N	92.1269W	274	From 1964-09-01 to 1965-03-22
Vinton	VO-	Iowa,U.S.A.	42.2250N	92.1269W	274	From 1964-09-01 to 1965-03-22
Viola	U41A	Arkansas,U.S.A.	36.3440N	91.9203W	300	From 2011-06-22
Virac	PVCP	Luzon,Philippines	13.5960N	124.1540E	50	
Virgin Gorda	VGVI	Virgin Islands	18.4400N	64.4300W	20	From 2001-12-10 to 2003-04-01
Virgin Gorda, British Virgin Islands	VGBI	Virgin Islands	18.4905N	64.4025W	288	From 2013-02-01
Virgin Gorda Peak	GPV	Virgin Islands	18.4918N	64.4035W		
Virginia	VIR	Orange Free State,South Africa	28.0800S	26.8633E	1341	
Virginia Beach	VBV	Virginia,U.S.A.	36.7853N	76.1080W	5	
Virginia City	VCNR	Nevada,U.S.A.	39.2956N	119.6503W	1928	
Virginia Peak	VIP	Nevada,U.S.A.	39.7540N	119.4610W	2499	
Virginia Western Community College	VWCC	Virginia,U.S.A.	37.2459N	79.9776W	361	
Virojoki	VJF	Finland	60.5388N	27.5550E	34	From 2003-05-26
Vis@19nje	VISS	Slovenia	45.8033N	14.8393E	403	From 2004-03-01
Visale	VSG	Solomon Islands,Papua New Guinea	9.2528S	159.7130E	330	From 1983-12-22
Viseu	PVIS	Portugal	40.7157N	7.8945W	720	From 1995-06-01
Vishakhapatnam	VIS	Andhra Pradesh,India	17.7210N	83.3287E	82	From 1962-01-01
Vishakhapatnam	VISK	Andhra Pradesh,India	17.7210N	83.3287E	30	
Visignano	VISG	Italy	44.1890N	11.4340E	728	From 2004-10-22
Visp Littennaring	SVIL	Switzerland	46.2923N	7.8865E	647	From 2010-04-01
Visp Obere Stapfengasse	SVIO	Switzerland	46.2908N	7.8803E	650	From 2010-04-01
Visp-Terbinerstrasse	SVIT	Switzerland	46.2897N	7.8848E	655	From 2010-05-01
Vissoie, Val d'Anniviers	VANNI	Switzerland	46.2101N	7.5968E	1520	From 2009-10-30
Vista de Mar	VCR	Costa Rica	10.1265N	85.6312W	960	
Vista Grande	VG2	California,U.S.A.	33.8318N	116.8090W	0	From 1975-12-01
Vista Hermosa	VHO	Oaxaca,Mexico	17.0723N	96.7332W	1685	
Vista Hermosa	VHM	Oaxaca,Mexico	17.1767N	96.7453W	1829	
Vitale (Isola del Liri - FR)	T0202	Italy	41.7021N	13.5442E	355	From 2009-06-12 to 2010-01-14
Viti Levu	NMF	Fiji	18.0058S	178.1600E	295	
Vitim	VTMR	Sakha,Russia	59.4400N	112.5500E	190	From 2005-06-27
Vitim	VTM	Sakha,Russia	59.4400N	112.5800E	168	
Vitineika	VTN	Greece	37.9166N	21.1856E	47	From 2009-09-08
Vitoria	PVIA	Azores,Portugal	39.0682N	28.0503W	49	From 2005-09-01
Vitosha	VTS	Bulgaria	42.5916N	23.2083E	1490	
Vittel	VITF	Lorraine,France	48.2172N	5.9844E	460	
Vittoria	HVIT	Sicily,Italy	36.9924N	14.5215E	288	From 2011-12-16
Vitulano	VTB1	Italy	41.1825N	14.6300E	865	From 1999-01-01 to 2005-05-05
Vitulano (BN)	VITU	Italy	41.1833N	14.6302E	847	From 2013-12-31
Vitzeroda	VITZ	Thuringen,Germany	50.8870N	10.0916E	392	From 2010-05-20
Vivian	VVO	Oklahoma,U.S.A.	35.3368N	95.7374W	224	From 1985-09-11
Vivian Onida	I29A	South Dakota,U.S.A.	44.0215N	100.3034W	592	From 2009-09-11 to 2011-06-30
Vizcacheras	AVIZ	Mendoza,Argentina	33.4730S	68.5162W	1019	
Vizianagram	VIZ	Andhra Pradesh,India	18.1167N	83.4500E		
Vizzini	HVZN	Sicily,Italy	37.1780N	14.7150E	730	From 1994-05-01
Vlachokerasia	VLX	Greece	37.3703N	22.3793E	1035	From 2006-06-28
Vladikavkaz	VLKR	Severo-Osetinskaya,Russia	43.0465N	44.6773E	684	From 2003-06-23
Vladila	VLAD	Romania	43.9986N	24.4038E	138	From 2012-10-31
Vladivostok	VLA	Primorskiy Kray,Russia	43.1196N	131.8850E	61	
Vlagtwedde	VLW4	Netherlands	52.9682N	7.0972E	-193	From 2010-10-29
Vlagtwedde	VLW3	Netherlands	52.9682N	7.0972E	-143	From 2010-10-29
Vlagtwedde	VLW1	Netherlands	52.9682N	7.0972E	-43	From 2010-10-29
Vlagtwedde	VLW2	Netherlands	52.9682N	7.0972E	-93	From 2010-10-29
Vlagtwedde	VLW	Netherlands	52.9694N	7.0982E	7	
Vlasy	PR4R	Permskiy Kray,Russia	57.9137N	55.6777E	152	From 2006-02-07
Vlora	VLO	Albania	40.4686N	19.4955E	43	
Vlychada, Santorini	SNT2	Greece	36.3398N	25.4325E	50	From 2011-07-05 to 2014-04-26
Vobarno	VOBA	Italy	45.6429N	10.5040E	292	From 2006-06-28
Vodivohitra	VDA	Madagascar	19.0610S	46.9530E	1472	From 1994-12-18
Vodopadnii	VDP	Kamchatskaya Oblast',Russia	55.7700N	160.2200E	1060	From 1977-01-01 to 1991-12-31
Vogar	IVOG	Iceland	63.9700N	22.3930W	7	From 1997-02-23
Vogel Lake	VOGL	Alaska,U.S.A.	60.9961N	150.4307W	38	
Voghera	VG1	Italy	44.9292N	9.0958E		From 1980-06-22 to 1999-08-25
Vogsosar	IVOS	Iceland	63.8530N	21.7040W	8	From 1997-04-15
Vohitsoka	VOI	Madagascar	22.0260S	46.7059E	991	From 2009-11-26
Vojsko	VOJS	Slovenia	46.0317N	13.8833E	1046	From 2004-10-01
Vojsko	VOY	Slovenia	46.0317N	13.8935E	1073	From 1984-11-01
Volborg	F23A	Montana,U.S.A.	45.7212N	105.4056W	953	From 2008-11-17 to 2010-08-07
Volcan	BRU2	Panama	8.7940N	82.6910W	1308	
Volcan Arenal	VACR	Costa Rica	10.4730N	84.6775W	360	From 1986-04-29
Volcan Cerro Prieto	VCP	Baja California,Mexico	32.4000N	115.3000W	110	From 1976-10-28
Volcan Chico	VCHI	Galapagos,Ecuador	0.7917S	91.0667W	1490	
Volcˆ¡n Chico	VCH1	Galapagos,Ecuador	0.7837S	91.0954W	1490	From 2012-10-06
Volcan Galeras	GCUF	Colombia	1.2260N	77.3450W	3800	
Volcan Irazu	IRZ	Costa Rica	9.9744N	83.8657W	3380	From 1984-03-17 to 1985-12-31
Volcan Irazu	ICR	Costa Rica	9.9808N	83.8305W	3306	
Volcan Irazu 2	IRZ2	Costa Rica	9.9688N	83.8975W	2975	From 1985-01-01
Volcan Nyalulag	NYAM	Democratic Republic of the Congo	1.4100S	29.2000E	3056	
Volcan Nyirag	NYI	Democratic Republic of the Congo	1.5200S	29.2500E	3469	
Volcano Peak E	WVPM	California,U.S.A.	35.9495N	117.8170W	1463	From 1975-09-26
Volcano Peak East	VPEM	California,U.S.A.	35.9495N	117.8170W	1463	From 1975-09-26
Volcan Poas	VPS	Costa Rica	10.1873N	84.2385W	2570	
Volcan Poas 2	VPS2	Costa Rica	10.1902N	84.2353W	2570	From 1980-11-01
Volcan Purace	PURC	Colombia	2.3222N	76.3617W	3950	From 1987-01-01
Volcan Rincon	RIN	Costa Rica	10.7735N	85.3583W	775	From 1984-11-01 to 1987-05-20
Volcan Rincon	RIN3	Costa Rica	10.7908N	85.3787W	900	From 1988-08-26
Volcan Rincon	RIN2	Costa Rica	10.8185N	85.3495W	1400	From 1987-05-20 to 1988-08-26
Volcan San Salvador	VSS	El Salvador	13.7417N	89.2417W	1250	
Volcan Turrialba	VTR0	Costa Rica	10.0173N	83.7602W	3300	
Volcan Turrialba	VTU	Costa Rica	10.0210N	83.7583W	3329	
Volcan Turrialba	CVTR	Costa Rica	10.0200N	83.7590W	3223	
Volcan Turrialba	VTUC	Costa Rica	10.0240N	83.7620W	3191	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Volcan Villarrica	VNV	Cautin,Chile	39.3692S	71.9528W	1200	From 1983-01-01
Volimes	VOL	Greece	37.8857N	20.6775E	552	From 2007-04-19
Volimes, Zakynthos	VLMS	Greece	37.8766N	20.6628E	431	From 2013-07-15
Vollmer Peak	CVPM	California,U.S.A.	37.8840N	122.2220W	568	
Volos	VOL2	Greece	39.3660N	22.9506E	22	From 2012-08-01
Vomvokou	VVK	Greece	38.4222N	21.8115E	651	From 2010-09-30
Vonarskard	IVON	Iceland	64.6732N	17.7558W	999	From 2013-09-09
Voronezh	VOR	Voronezhskaya Oblast',Russia	51.7311N	39.2000E	160	From 1997-01-01 to 2008-08-20
Voronezh	VORR	Voronezhskaya Oblast',Russia	51.6717N	39.2082E	150	From 2008-08-20
Vostochnaya	VOSK	Kazakhstan	52.7233N	70.9797E	450	From 1999-09-24
Vostochnaya	VOS	Kazakhstan	52.7233N	70.9797E	450	From 1999-09-24
Vostochnaya array site	VOS5	Kazakhstan	52.7435N	71.0042E	316	From 1995-08-10
Vostochnaya array site	VOS6	Kazakhstan	52.7478N	70.9649E	327	From 1995-08-10
Vostochnaya array site	VOS7	Kazakhstan	52.7276N	70.9370E	328	From 1995-08-10
Vostochnaya array site	VOS4	Kazakhstan	52.7686N	70.9906E	321	From 1995-08-10
Vostochnaya array site	VOS8	Kazakhstan	52.7524N	70.9211E	344	From 1995-08-10
Vostochnaya array site	VOS9	Kazakhstan	52.7696N	70.9511E	329	From 1995-08-10
Votaw Ranch, Wellfleet	N29A	Nebraska,U.S.A.	40.8189N	100.6264W	897	From 2009-05-19 to 2011-04-11
Vottur	IVOT	Iceland	64.2708N	17.1825W	1041	From 2011-06-06
Vouglans	VOU	Franche Comte,France	46.3989N	5.6508E	495	From 1967-03-01
Voula,Athens	VLY	Greece,Greece	37.8524N	23.7942E	256	From 2008-02-12
Vozrozhdenie	VOZR	Krasnodarskiy Kray,Russia	44.5530N	38.2230E	92	From 2009-11-23 to 2013-11-03
Vranov	VRAC	Czech Republic	49.3083N	16.5935E	475	From 1989-12-01
Vrh nad Dolskim	VNDS	Slovenia	46.1016N	14.7014E	531	From 2005-12-16
Vrincioaia	VRI	Romania	45.8665N	26.7276E	472	From 1967-01-01
Vrontados, Chios Island	VRO1	Greece	38.4057N	26.1339E	34	From 2010-10-01
V-Sauoahnukur	IVSH	Iceland	64.8080N	15.7280W	849	From 2004-12-29
Vulcan	VUL	New Britain,Papua New Guinea	4.2828S	152.1460E	332	From 1967-01-01
Vulcanello	VN6*	Sicily,Italy	38.4256N	14.9625E		From 1966-04-01 to 1966-05-01
Vulcano Cr IE	IVCR	Sicily,Italy	38.4080N	14.9620E	140	From 1977-01-01
Vulcano Grillo IE	IVUG	Sicily,Italy	38.3960N	14.9860E	250	From 1977-01-01
Vulcano Grotta dei Palizzi	IVGP	Sicily,Italy	38.3968N	14.9608E	129	From 2011-12-05
Vulcano Lentia IE	IVLT	Sicily,Italy	38.3960N	14.9480E	150	From 1977-01-01
Vulcano Piano	VPL	Sicily,Italy	38.3789N	14.9836E	410	
Vunargo	VNG	Greece	37.7410N	21.3930E	240	From 2006-05-15
Vunidawa	VDW	Fiji	17.8336S	178.2528E	409	From 1979-10-01
Vunikawai	VUN	Fiji	18.0072S	178.4633E	178	From 1976-12-01
VWDT	VWDT	Taiwan region	23.7537N	121.1412E	0	From 2009-07-16
VWUC	VWUC	Taiwan region	24.9911N	119.4492E	5	From 2009-09-14
Vyborg	VYB	Leningradskaya Oblast',Russia	60.7167N	28.8000E	25	
Vyhne	VYHS	Slovakia	48.4940N	18.8361E	480	
Vyrnwy	WVR	Wales,United Kingdom	52.7974N	3.6051W	580	From 1985-01-01
W01	IASBS	Iran	34.3463N	45.7438E	532	From 2013-10-08 to 2014-11-01
Wabag	WAB	Papua New Guinea	5.4947S	143.7280E	2032	From 1968-01-01
Wabash College	WVIL	Illinois,U.S.A.	38.4298N	87.7817W	160	
Wabush	WABN	Newfoundland,Canada	52.9080N	66.8710W	563	
Wabush	WBHL	Newfoundland,Canada	52.9030N	66.8663W	595	From 2011-07-18
Wachi	JWT	Kyoto,Japan	35.2825N	135.4015E	172	
Wade Farm, Kenmare	A26A	North Dakota,U.S.A.	48.8973N	102.0380W	570	From 2009-07-23 to 2011-07-25
Wadena	E34A	Minnesota,U.S.A.	46.5136N	95.1691W	430	From 2010-08-26 to 2012-07-31
Wadesville	WDIN	Indiana,U.S.A.	38.0908N	87.7158W	164	
Wadia Institute--Dehra Dun	WIHG	Uttar Pradesh,India	30.3285N	78.0130E	619	From 1985-11-01
Wadi Bani Khalid	WBK	Oman	22.6100N	58.9700E	450	From 2001-07-01
Wadi Hawf	WHFO	Oman	17.9190N	53.7706E	550	From 2001-07-01
Wadi 'Ibn Hashbal	WBHS	Saudi Arabia	18.6062N	42.7288E	1882	
Wadi Mousa	WMSJ	Jordan	30.3250N	35.4650E	965	From 2001-01-01
Wadi Sarin	WSAR	Oman	23.2390N	58.6307E	326	
Wadsworth	WAD	Nevada,U.S.A.	39.6878N	119.2880W	1262	
Waduk Cacaban	CTJI	Jawa,Indonesia	7.0075S	109.1836E	104	
Wagenman Farm, Cando	B29A	North Dakota,U.S.A.	48.4649N	99.3535W	460	From 2009-08-21 to 2011-07-19
Wager Bay	WAGN	Northwest Territories,Canada	65.8792N	89.4445W	0	From 2006-08-20
Wagin	WA2	Western Australia,Australia	33.2767S	117.3370E	300	From 1973-06-09
Wagner Farm, Oakesdale	D10A	Washington,U.S.A.	47.0547N	117.2759W	775	From 2006-09-23 to 2008-06-19
Wagon Wheel Ranch, Midkiff	329A	Texas,U.S.A.	31.4870N	101.9808W	842	From 2009-02-08 to 2010-12-10
Wahat al Ahsa'	HASS	Saudi Arabia	25.1899N	49.6944E	200	
Wahat Dakhilah	HDK2	Egypt	24.3195N	28.9546E	380	
Wahat Farafirah	HFRF	Egypt	27.1484N	28.3105E	135	
Wahaula	WHA	Hawaii,U.S.A.	19.3317N	155.0490W	29	
Wahet Paris	APRS	Egypt	24.3718N	30.7126E	185	
Wahianoa	WNVZ	North Island,New Zealand	39.3270S	175.5979E	1566	From 2004-04-15
Wahluke	WAH	Washington,U.S.A.	46.7520N	119.5780W	231	From 1970-07-01
Wahluke Slope	WAH2	Washington,U.S.A.	46.7553N	119.5657W	244	
Wahnapitae	E50A	Ontario,Canada	46.4232N	80.7378W	242	From 2012-11-01
Wahnbachtalsperre	WBS	Nordrhein-Westfalen,Germany	50.8061N	7.2831E	130	From 1990-11-01
Wahner Farm, Parshall	C26A	North Dakota,U.S.A.	47.8259N	102.0957W	656	From 2009-07-26 to 2011-06-09
Wahoo	WHNE	Nebraska,U.S.A.	41.2362N	96.6525W	381	
Wah Wah Mountains	WW-UT	Utah,U.S.A.	38.5139N	113.5889W	1829	From 1963-04-16 to 1963-07-15
Wah Wah Mts	WW-	Utah,U.S.A.	38.5139N	113.5889W	1829	From 1963-04-16 to 1963-07-15
Waiatarua	WTAZ	North Island,New Zealand	36.9324S	174.5734E	340	From 1995-01-10
Waiheke Island	WIAZ	North Island,New Zealand	36.7930S	175.1339E	191	From 2010-07-27
Waihua	WHHZ	North Island,New Zealand	39.0768S	177.2344E	261	From 2009-06-30
Waikabubak, Sumba	WBSI	Sumba,Indonesia	9.6411S	119.3911E	456	From 2008-12-01
Waikii	WKH	Hawaii,U.S.A.	19.8597N	155.6600W	1433	
Waimanalo Ridge	WMR	Hawaii,U.S.A.	21.3203N	157.6823W	200	
Waimangu	WGZ	North Island,New Zealand	38.2862S	176.3872E	440	From 1980-08-20 to 1983-12-15
Waingapu	WSI	Sumba,Indonesia	9.6689S	120.2976E	48	
Wainui Dam	WDW	North Island,New Zealand	41.2670S	174.9939E	130	From 1976-12-07 to 1992-07-31
Waiomatatini Station	WMGZ	North Island,New Zealand	37.8191S	178.4149E	129	From 2009-12-10
Waipapa Point	WPZ	South Island,New Zealand	46.6587S	168.8498E	15	From 1966-11-18 to 1976-09-21
Waipu Caves	WCZ	North Island,New Zealand	35.9388S	174.3450E	108	From 1990-10-13
Waipukurau	WPHZ	New Zealand	40.0643S	176.4406E	350	From 2006-10-19
Wairakei	WNZ	North Island,New Zealand	38.6295S	176.1030E	350	From 1962-08-01 to 1985-09-27
Wairara	WATZ	North Island,New Zealand	38.7079S	175.7332E	560	From 1996-08-17
Wairiri	WAI	South Island,New Zealand	43.4950S	171.8684E	400	From 1947-03-01 to 1948-03-31
Waitaha Valley	WVZ	South Island,New Zealand	43.0743S	170.7368E	91	From 1990-05-16
Wajiki	WKJ	Tokushima,Japan	33.8598N	134.5147E	100	
Wa jima	WAJ	Ishikawa,Japan	37.3900N	136.8980E	7	
Wakamiya	WMY	Kochi,Japan	33.6421N	133.6750E	230	From 1967-04-01 to 1999-08-25
Wakanui South Island, New Zealand	WACZ	South Island,New Zealand	43.9425S	171.8391E	97	From 2013-04-08
Wakarara	WAHZ	North Island,New Zealand	39.6974S	176.3555E	657	From 1987-03-19 to 2000-12-05
Wakaura	WKU	Wakayama,Japan	34.1879N	135.1730E	10	From 1953-10-01 to 1978-08-26
Wakayama	WKY	Wakayama,Japan	34.2267N	135.1670E	14	
Wakayama	WKME	Wakayama,Japan	34.1909N	135.1673E	5	
Wakayama 2	WKYJ	Wakayama,Japan	34.2190N	135.5925E	795	
Wakayamakushimoto	JWKM	Wakayama,Japan	33.4498N	135.7573E	68	From 2012-07-01
Wake	WKE	Wake Island,U.S.A.	19.3150N	166.6270E	5	From 1956-01-01 to 1969-12-31
Wakefield	E40A	Michigan,U.S.A.	46.4446N	89.8991W	472	From 2011-09-09 to 2013-06-08
Wake Island	WAKE	Wake Island,U.S.A.	19.2833N	166.6536E	0	
WAKE ISLAND Hydroacoustic Site N1	H11N1	Wake Island,U.S.A.	19.7136N	166.8911E	-2149	From 2010-01-24
WAKE ISLAND Hydroacoustic Site N2	H11N2	Wake Island,U.S.A.	19.7311N	166.8968E	-2148	From 2010-02-19
WAKE ISLAND Hydroacoustic Site N3	H11N3	Wake Island,U.S.A.	19.7179N	166.9099E	-2162	From 2010-02-19
WAKE ISLAND Hydroacoustic Site S1	H11S1	Wake Island,U.S.A.	18.5083N	166.7003E	-1929	From 2010-01-24
WAKE ISLAND Hydroacoustic Site S2	H11S2	Wake Island,U.S.A.	18.4905N	166.7054E	-1939	From 2010-02-19
WAKE ISLAND Hydroacoustic Site S3	H11S3	Wake Island,U.S.A.	18.4949N	166.6873E	-1872	From 2010-02-19
Wakkake-Misaki	JWK	Soya,Japan	45.4168N	141.6732E	90	
Wakkanai	WAKJ	Soya,Japan	45.4133N	141.6833E	11	
Wakkanai	WAK	Soya,Japan	45.4167N	141.6730E	90	
Wala	WALJ	Jordan	31.5620N	35.8110E	53	
Walderalm	WATA	Austria	47.3357N	11.5763E	1492	From 1989-10-01
Waldron Ledge	WLG	Hawaii,U.S.A.	19.4248N	155.2620W	1067	From 1971-09-01 to 2000-11-09
Walferdange	WLF	Luxembourg	49.6646N	6.1526E	295	
Walker	WAKR	Nevada,U.S.A.	38.5044N	119.4372W	1890	
Walker Mountain	WMV	Virginia,U.S.A.	37.1085N	80.9705W	1157	
Walker Mountain	VWMM	Oregon,U.S.A.	43.3050N	121.7160W	2158	
Walker Pass	WWPM	California,U.S.A.	35.7355N	118.0870W	1151	
Walker Ridge	WKC	California,U.S.A.	40.3933N	124.2880W	225	From 1973-01-01 to 1980-11-05
Walker Ridge	WKC2	California,U.S.A.	40.3892N	124.2960W	226	From 1980-11-05
Walker Ridge	GWKM	California,U.S.A.	39.0520N	122.4910W	841	
Walkerton	BWLO	Ontario,Canada	44.1174N	81.1382W	228	From 2007-08-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Wallace	WAL	Idaho,U.S.A.	47.4600N	115.9650W		
Wallace	G43A	Michigan,U.S.A.	45.2572N	87.6861W	213	From 2011-09-12 to 2013-06-11
Wallace Dam	WDG	Georgia,U.S.A.	33.3440N	83.1752W	177	From 1978-02-01
Walla Walla High School ANSS SMO	WWHS	Washington,U.S.A.	46.0453N	118.3183W	10	From 2003-09-24
Wallersheim-Loch	LOH	Rheinland-Pfalz,Germany	50.1825N	6.5356E	580	From 2006-12-01
Wallhausen, DE	WALHA	Switzerland	47.7530N	9.1230E	385	From 2013-07-18
Wallila Gap	WGW	Washington,U.S.A.	46.0447N	118.9330W	162	From 1971-10-01
Wall Ranch, Gause	436A	Texas,U.S.A.	30.7702N	96.7960W	109	From 2010-01-27 to 2011-11-08
Walls	WAL1	Shetland Islands,United Kingdom	60.2564N	1.6173W	167	From 1980-01-01
Walls	WALU	Shetland Islands,United Kingdom	60.2576N	1.6133W	170	
Wallula Gap	WG3	Washington,U.S.A.	46.0286N	118.8570W	480	From 1990-01-01
Wallula Gap	WG2	Washington,U.S.A.	46.0306N	118.8560W	511	From 1987-04-01
Wally Ulrich	WUWY	Wyoming,U.S.A.	43.5394N	110.7429W	1965	
Walnut Farm, Randolph	P34A	Kansas,U.S.A.	39.5471N	96.8268W	429	From 2010-05-27 to 2012-03-16
Walnut Grove	WGAR	Arkansas,U.S.A.	35.8530N	90.1910W	72	
Walnut Ridge	WR-	Arkansas,U.S.A.	36.0583N	91.2219W	122	From 1961-12-05 to 1961-12-16
Walnut Ridge	WR-AR	Arkansas,U.S.A.	36.0583N	91.2219W	122	From 1961-12-05 to 1961-12-16
Walsh	T28A	Colorado,U.S.A.	37.1204N	102.1136W	1148	From 2008-12-16 to 2010-11-08
Walters Elk Ranch, Riggins	G11A	Idaho,U.S.A.	45.3997N	116.2680W	1343	From 2006-11-08 to 2008-07-14
Waltham Township, Utica	M43A	Illinois,U.S.A.	41.4365N	88.9581W	190	From 2011-10-25
Walton	L59A	New York,U.S.A.	42.1902N	75.0426W	677	From 2013-09-03
Waltonville	R44A	Illinois,U.S.A.	38.2475N	89.0809W	144	From 2011-05-21 to 2013-04-29
Wambrook	WAM	New South Wales,Australia	36.1928S	148.8830E	200	From 1957-01-01
Wamena	WAMI	Irian Jaya,Indonesia	3.8847S	138.7114E	0	
Wamic	G05A	Oregon,U.S.A.	45.2422N	121.3167W	594	From 2005-11-03 to 2008-03-27
Wamic, OR	G05D	Oregon,U.S.A.	45.2422N	121.3167W	592	From 2009-10-22
Wamsutter	L20A	Wyoming,U.S.A.	42.0073N	108.3398W	2028	From 2007-10-26 to 2009-10-16
Wanagama	UGM	Jawa,Indonesia	7.9125S	110.5231E	350	From 1995-08-20
Wanaka	WKZ	South Island,New Zealand	44.8270S	169.0176E	558	From 2004-06-03
Wando	KSWAN	Republic of Korea	34.3890N	126.7023E	34	From 1999-04-07
Wanganui	WLFZ	North Island,New Zealand	39.9917S	175.0963E	30	From 1982-10-14 to 1982-10-24
Wanganui	WAZ	North Island,New Zealand	39.7546S	174.9856E	382	From 2003-07-18
Wang Home	KHVB	British Columbia,Canada	48.5688N	123.4663W	39	From 2003-02-28
Wanliss Street	WAN	New Britain,Papua New Guinea	4.1943S	152.1760E	25	From 1967-01-01
Wann	WNN	Nebraska,U.S.A.	41.1897N	96.2661W	387	
Wanoga Butte	VWBM	Oregon,U.S.A.	43.9137N	121.5550W	1736	
Wapiti River	WAPA	Alberta,Canada	55.1833N	119.2536W	784	From 2009-10-20
Warakurna	WRKA	Western Australia,Australia	25.0371S	128.2962E	622	From 2009-04-26
Warangal	WGL	Andhra Pradesh,India	17.9850N	79.5300E	280	From 1975-01-01
Warburton	WARB	Western Australia,Australia	26.1838S	126.6430E	460	From 1987-06-28 to 1998-12-31
Warburton	WBN	Western Australia,Australia	26.1400S	126.5780E	457	From 1978-06-27 to 1987-06-28
Wardell	WADM	Missouri,U.S.A.	36.3661N	89.7959W	78	
Warden	WRD	Washington,U.S.A.	46.8033N	119.1448W	375	From 1970-07-01
Wardlaw	BWH	Scotland,United Kingdom	55.1758N	3.6549W	269	
Ward Pound Ridge	WPR	New York,U.S.A.	41.2547N	73.5857W	152	From 1971-03-01 to 1981-12-31
Wards Creek	WCNB	New Brunswick,Canada	45.6459N	65.5097W	128	From 2013-09-06
Warideh	WRDH	Syria	35.5079N	36.4120E	730	From 1995-04-01
Waris	WAA	Papua New Guinea	4.1167S	145.1000E	48	
Warland Creek	WCM	Montana,U.S.A.	48.4583N	115.1030W	1704	From 1971-02-01 to 1974-07-11
Warmenhuizen	WMH3	Netherlands	52.7096N	4.7498E	-151	From 1995-04-21
Warmenhuizen	WMH2	Netherlands	52.7096N	4.7498E	-101	From 1995-04-21
Warmenhuizen	WMH4	Netherlands	52.7096N	4.7498E	-201	From 1995-04-21
Warmenhuizen	WMH	Netherlands	52.7108N	4.7498E	-1	
Warmenhuizen	WMH1	Netherlands	52.7096N	4.7498E	-51	From 1995-04-21
Warmifontaine	WRM	Belgium	49.8333N	5.3806E	242	
Warminster	SWK	England,United Kingdom	51.1483N	2.2471W	266	
Warm Springs	R10A	Nevada,U.S.A.	38.2886N	116.3021W	1600	From 2006-06-09 to 2008-09-11
Warm Springs	WZ-NV	Nevada,U.S.A.	38.0628N	116.4397W	2073	
Warm Springs	WSP	California,U.S.A.	34.5962N	118.5790W	1219	
Warm Springs	WSN	Nevada,U.S.A.	38.3833N	116.1920W	1768	From 1965-01-01 to 1970-12-31
Warm Springs Repeater	WSR	Nevada,U.S.A.	38.1914N	116.3990W	1890	From 1965-01-01 to 1970-12-31
Warragamba	WGBM	New South Wales,Australia	33.8661S	150.5751E	254	
Warragamba Dam	WDBM	New South Wales,Australia	33.8850S	150.5940E	30	
Warramunga Ar.	WB1	Northern Territory,Australia	19.9595S	134.3460E	422	
Warramunga Array	WCB	Northern Territory,Australia	19.9347S	134.3570E	366	From 1965-10-01
Warramunga Array	WRB	Northern Territory,Australia	19.9594S	134.3464E	393	From 1965-10-01
Warramunga Array Beam Reference Point	WRA	Northern Territory,Australia	19.9426S	134.3390E	419	From 1965-10-01
Warramunga Array Site B0	WB0	Northern Territory,Australia	19.7671S	134.3930E	392	
Warramunga Array Site B2	WB2	Northern Territory,Australia	19.9428S	134.3511E	388	From 1965-10-01
Warramunga Array Site B3	WB3	Northern Territory,Australia	19.9230S	134.3555E	384	From 1965-10-01
Warramunga Array Site B4	WB4	Northern Territory,Australia	19.9036S	134.3589E	380	From 1965-10-01
Warramunga Array Site B5	WB5	Northern Territory,Australia	19.8782S	134.3662E	370	From 1965-10-01
Warramunga Array Site B6	WB6	Northern Territory,Australia	19.8550S	134.3670E	396	From 1965-10-01
Warramunga Array Site B7	WB7	Northern Territory,Australia	19.8408S	134.3794E	353	From 1965-10-01
Warramunga Array Site B8	WB8	Northern Territory,Australia	19.8139S	134.3808E	356	From 1965-10-01
Warramunga Array Site B9	WB9	Northern Territory,Australia	19.7914S	134.3840E	391	From 1965-10-01
Warramunga Array Site C1	WC1	Northern Territory,Australia	19.9243S	134.3391E	392	
Warramunga Array Site C2	WC2	Northern Territory,Australia	19.9254S	134.3654E	375	
Warramunga Array Site C3	WC3	Northern Territory,Australia	19.9587S	134.3719E	382	
Warramunga Array Site C4	WC4	Northern Territory,Australia	19.9619S	134.3397E	387	
Warramunga Array Site R0	WR0	Northern Territory,Australia	19.9597S	134.5405E	353	
Warramunga Array Site R1	WR1	Northern Territory,Australia	19.9426S	134.3395E	388	
Warramunga Array Site R2	WR2	Northern Territory,Australia	19.9469S	134.3624E	385	From 1965-10-01
Warramunga Array Site R3	WR3	Northern Territory,Australia	19.9485S	134.3869E	376	From 1965-10-01
Warramunga Array Site R4	WR4	Northern Territory,Australia	19.9503S	134.4066E	374	From 1965-10-01
Warramunga Array Site R5	WR5	Northern Territory,Australia	19.9522S	134.4304E	364	From 1965-10-01
Warramunga Array Site R6	WR6	Northern Territory,Australia	19.9543S	134.4540E	382	From 1965-10-01
Warramunga Array Site R7	WR7	Northern Territory,Australia	19.9552S	134.4760E	382	From 1965-10-01
Warramunga Array Site R8	WR8	Northern Territory,Australia	19.9557S	134.5000E	400	From 1965-10-01
Warramunga Array Site R9	WR9	Northern Territory,Australia	19.9577S	134.5150E	383	From 1965-10-01
WARRAMUNGA INFRASONIC ARRAY REFERENCE POINT	WRAI	Northern Territory,Australia	19.9348S	134.3295E	386	From 2000-05-12
Warramunga Infrasound Array Beam Ref. Pt.	WRAI	Northern Territory,Australia	19.9402S	134.2260E	401	
Warren Harvey, Newton	Q45A	Illinois,U.S.A.	38.8948N	88.1565W	162	From 2011-11-19
Warroad	A33A	Minnesota,U.S.A.	48.9371N	95.3904W	329	From 2010-09-28 to 2012-09-07
Warsak Dam	WRS	Pakistan	34.1500N	71.4167E	343	
Warsaw	WAR	Poland	52.2417N	21.0236E	110	From 1939-01-01 to 2008-10-10
Wartburg	WT-	Tennessee,U.S.A.	36.1097N	84.7578W	427	From 1963-04-12 to 1963-07-31
Wartburg	WT-TN	Tennessee,U.S.A.	36.1097N	84.7578W	427	From 1963-04-12 to 1963-07-31
Warwick	F60A	Quebec,Canada	45.9688N	71.9514W	229	From 2013-08-07
Warwick Parish	PSBMU	Bermuda	32.2780N	64.7930W	35	
Wasel	WASL	Saudi Arabia	29.1880N	34.9060E		From 1993-07-01 to 1999-08-25
Washetta, Montalba	237A	Texas,U.S.A.	32.0015N	95.8084W	126	From 2010-02-20 to 2012-01-20
Washington	WAS	District of Columbia,U.S.A.	38.8925N	77.0331W	0	From 1909-01-01 to 1969-12-31
Washington City	WCO	Utah,U.S.A.	37.1387N	113.5094W	878	From 2008-05-30
Washington Fields	REUT	Utah,U.S.A.	37.0976N	113.5193W	791	From 2008-06-27
Washington Hill	WSH	Nevada,U.S.A.	39.4538N	119.6447W	1762	
Washington--Naval Research Laboratory	NRL	District of Columbia,U.S.A.	38.8333N	77.0833W		From 1953-01-01 to 1972-12-31
Washington Science Center	WSC	Maryland,U.S.A.	39.0505N	77.1237W	120	From 1965-01-01 to 1972-12-31
Washoe City	WCN	Nevada,U.S.A.	39.3104N	119.7590W	1658	From 1972-08-12 to 2010-11-10
Wassenberg	RWB	Nordrhein-Westfalen,Germany	51.1018N	6.1550E	45	From 2003-04-01
Water	H2OWA	Washington,U.S.A.	46.3958N	119.4230W	158	
Waterbury	VT1	Vermont,U.S.A.	44.3317N	72.7536W	410	
Waterdown	RD02	Ontario,Canada	43.3154N	79.8768W	104	
Waterproof	243A	Louisiana,U.S.A.	31.8803N	91.4827W	2	From 2011-02-19 to 2012-11-30
Waterton	WTC	Colorado,U.S.A.	39.5143N	105.1380W	1987	From 1973-01-01 to 1976-11-30
Waterton Lakes	WALA	Alberta,Canada	49.0586N	113.9120W	1400	From 1992-05-15
Water View	S60A	Virginia,U.S.A.	37.7055N	76.6535W	36	From 2013-04-15
Waterville	WTVE	New York,U.S.A.	42.9460N	75.3272W	426	
Waterville	WVL	Maine,U.S.A.	44.5648N	69.6575W	85	
Waterville	WTR	Maine,U.S.A.	44.6483N	69.6556W	79	From 1951-10-01
Waterville	C07A	Washington,U.S.A.	47.6902N	120.0613W	863	From 2006-09-19 to 2008-05-16
Waterville	WTV	Washington,U.S.A.	47.6986N	119.9540W	900	
Waterways	WS-	Alberta,Canada	56.6594N	111.2686W	366	From 1965-10-14 to 1965-11-15
Waterways	WS-AT	Alberta,Canada	56.6594N	111.2686W	366	From 1965-10-14 to 1965-11-15
Watheroo	WAT	Western Australia,Australia	30.3167S	115.8830E		From 1958-01-01 to 1959-12-31
Watkins	G35A	Minnesota,U.S.A.	45.2199N	94.4855W	361	From 2010-09-15 to 2012-07-27
Watom Island	EWT	New Britain,Papua New Guinea	4.1150S	152.0880E	30	
Watseka	WQ-IL	Illinois,U.S.A.	40.8656N	87.5864W	198	
Watson	WA-OK	Oklahoma,U.S.A.	34.4417N	94.4911W	305	From 1962-10-17 to 1962-10-27

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Watson	WA-	Oklahoma,U.S.A.	34.4417N	94.4911W	305	From 1962-10-17 to 1962-10-27
Watson Lake	WALK	Missouri,U.S.A.	36.5394N	89.5423W	87	
Watson Lake	WL-YK	Yukon Territory,Canada	60.1167N	128.7644W	716	From 1965-10-16 to 1965-11-15
Watson Lake	WL-	Yukon Territory,Canada	60.1167N	128.7644W	716	From 1965-10-16 to 1965-11-15
Wattenberg	WTTA	Austria	47.2638N	11.6363E	1764	From 1991-02-09
Wattenberg Ranch, Walden	N22A	Colorado,U.S.A.	40.8023N	106.4544W	2472	From 2007-11-27 to 2010-06-11
Watts Point	WPB	British Columbia,Canada	49.6570N	123.2100W	273	From 1983-01-20
Watts, South Gate	WTT2	California,U.S.A.	33.9487N	118.2554W	33	
Wau	WAU	Papua New Guinea	7.3456S	146.7165E	1083	From 1996-05-09
Waubonsee CC	WCIL	Illinois,U.S.A.	41.7961N	88.4590W	214	
Wauchula	958A	Florida,U.S.A.	27.5855N	81.7543W	30	From 2012-03-07
Wavell State High School	AUWSH	Queensland,Australia	27.4000S	153.0400E	60	From 2011-06-24
Waverly	WVT	Tennessee,U.S.A.	36.1297N	87.8300W	170	From 2011-01-23
Waverly Hall	152A	Georgia,U.S.A.	32.6686N	84.7188W	214	From 2012-04-03
Waxell Ridge	WAX	Alaska,U.S.A.	60.4500N	142.8520W	975	From 1975-08-22
Waymart	M59A	Pennsylvania,U.S.A.	41.5413N	75.4321W	471	From 2013-06-12
Waynesburg	WAY	Pennsylvania,U.S.A.	39.9017N	80.1850W	329	From 1956-06-01 to 1964-12-31
Weather Observatory	WOB	Hawaii,U.S.A.	19.5385N	155.5830W	3396	
Weaver Farm	KWE	England,United Kingdom	53.0166N	1.8435W	320	From 1988-01-01
Weber Canyon	WBC	Utah,U.S.A.	41.1397N	111.9008W	1602	
Webster	G32A	South Dakota,U.S.A.	45.2555N	97.4994W	566	From 2010-09-01 to 2012-07-28
Webster	M39A	Iowa,U.S.A.	41.4786N	92.1725W	264	From 2011-06-16 to 2013-05-12
Wedel Dairy, Riceville	J38A	Iowa,U.S.A.	43.3190N	92.4755W	371	From 2010-10-11 to 2012-09-14
Wegel	WGLY	New York,U.S.A.	41.3589N	73.8994W	152	
Weija	WEGH	Ghana	5.5933N	0.3269W	180	From 1987-01-01
Weil am Rhein	WEIL	Baden-Wurttemberg,Germany	47.5930N	7.6007E	246	From 2000-11-16
Weingarten	WEIN	Switzerland	47.5287N	8.9859E	555	From 2003-08-29
Weissweiler	BA03	Nordrhein-Westfalen,Germany	50.8379N	6.3866E	120	From 2006-10-01
Welcome	WEO	Ontario,Canada	44.0187N	78.3743W	149	From 1982-04-30
Welkom	WKM	Orange Free State,South Africa	28.0050S	26.7617E	1340	
Wellesley Island	WLI	New York,U.S.A.	44.3090N	76.0098W	90	From 1974-08-01 to 1976-08-16
Wellington	WEL	North Island,New Zealand	41.2840S	174.7682E	138	From 1884-02-01
Wells	M12A	Nevada,U.S.A.	41.4157N	114.9151W	1930	From 2006-05-05 to 2008-08-09
Wellsville	WVUT	Utah,U.S.A.	41.6102N	111.9590W	1828	From 1979-08-01
Welschbruch	WLS	Alsace,France	48.4133N	7.3533E	775	From 1963-01-01
Wemindji, Quebec	WEMQ	Quebec,Canada	53.0535N	77.9737W	172	From 2005-06-23
Wenas	WNS	Washington,U.S.A.	46.7103N	120.5750W	1000	
Wenatchee	WNW	Washington,U.S.A.	47.5295N	120.1940W	1061	From 1975-06-01
Wenatchee	WEN	Washington,U.S.A.	47.5295N	120.1940W	1061	
Wenatchee Ridge	WRW	Washington,U.S.A.	47.8572N	120.8811W	1189	
Wendo Genet	WNDE	Ethiopia	7.0979N	38.6349E	1841	
Wendover, West Wendover	N13A	Nevada,U.S.A.	40.8556N	114.2045W	1385	From 2006-05-19 to 2008-08-20
Wente Vineyards, Livermore	WENL	California,U.S.A.	37.6221N	121.7570W	138	From 1998-07-15
Weppner Ranch, Escalante	S16A	Utah,U.S.A.	37.7222N	111.5961W	1785	From 2007-08-01 to 2009-03-12
Werda	WERD	Sachsen,Germany	50.4476N	12.3064E	589	From 2001-06-13
Werner Place, Edgewood	W23A	New Mexico,U.S.A.	35.1605N	106.1503W	2020	From 2008-04-20 to 2010-03-14
Wernitzgruen	WERN	Sachsen,Germany	50.2874N	12.3761E	672	From 2000-08-02
Werombi	WER	New South Wales,Australia	33.9503S	150.5803E	226	From 1959-01-01
Wesley	DWS	Dominica	15.5685N	61.3113W	61	
Wesleyville	WLVO	Ontario,Canada	43.9236N	78.3970W	70	From 1990-11-07
Wesser Bold	WSSR	North Carolina,U.S.A.	35.2778N	83.5780W	1390	From 1985-11-01 to 2008-02-13
West Acre	WACR	England,United Kingdom	52.7247N	0.6267E	66	From 2011-07-19
West Alisa	AWAL	Egypt	23.3792N	32.5825E		
West Arenal	WARN	Costa Rica	10.4620N	84.7208W	580	
West Ashley	WSS	South Carolina,U.S.A.	32.8468N	80.2717W	9	From 1983-01-01
West Bay, Grand Cayman	WBCY	Cayman Islands	19.3767N	81.3975W	1	From 2011-01-01
Westboro	WGMA	Massachusetts,U.S.A.	42.2890N	71.5850W	130	
West Boundary	YPWB	Montana,U.S.A.	44.6058N	111.1008W	2310	
West Bromwich	WBE	England,United Kingdom	52.5333N	2.0000W	156	
Westbrook Farm, Meadville	344A	Mississippi,U.S.A.	31.4527N	90.7318W	78	From 2011-03-16 to 2012-12-14
West Butte Ranch, Sweetgrass	A16A	Montana,U.S.A.	48.9482N	111.5968W	1394	From 2007-09-16 to 2009-08-11
Westby	A24A	North Dakota,U.S.A.	48.9239N	104.0018W	677	From 2008-09-12 to 2010-07-14
Westby DABS, Erhard	E33A	Minnesota,U.S.A.	46.5035N	96.0054W	428	From 2010-08-20 to 2012-06-24
West Carthage	WCNY	New York,U.S.A.	43.9810N	75.6549W	245	From 2007-06-27
Westchester CC	WCCN	New York,U.S.A.	41.0684N	73.7914W	144	
Westchester Community College	WCC	New York,U.S.A.	41.0585N	73.7918W	100	From 1987-01-01 to 2006-05-18
West Chester University of Pennsylvania, USA	WUPA	Pennsylvania	39.9324N	75.6060W	86	From 2014-07-01
West corner E0890 Road	OK024	Oklahoma,U.S.A.	35.7251N	97.0579W	302	
Westdahl Beartrack Creek	WEBT	Aleutian Islands, Alaska,U.S.A.	54.5911N	164.7530W	467	From 2009-01-01
Westdahl Cape Sarichef	WECS	Aleutian Islands, Alaska,U.S.A.	54.5309N	164.7776W	642	From 2009-01-01
West Dahl East	WESE	Alaska,U.S.A.	54.4726N	164.5863W	930	
West Dahl North	WESN	Alaska,U.S.A.	54.5685N	164.5833W	549	
Westdahl Peak	WESP	Aleutian Islands, Alaska,U.S.A.	54.4930N	164.7213W	937	From 2009-01-01
West Dahl South	WESS	Alaska,U.S.A.	54.4794N	164.7226W	908	
West Decatur	N56A	Pennsylvania,U.S.A.	40.9171N	78.2953W	561	From 2013-05-21
Western Deep Levels Mine	WDLM	South Africa	26.4238S	27.4222E	1680	From 2009-12-08
Western Traverse Mountains	WTU	Utah,U.S.A.	40.4548N	111.9530W	1579	From 1992-06-09
Westfeld	WESF	Thuringen,Germany	50.5375N	11.2123E	744	From 2012-07-12
Westford	WFM	Massachusetts,U.S.A.	42.6106N	71.4906W	88	From 1976-05-01
West Island	COCO	Cocos Islands,Australia	12.1901S	96.8349E	-69	
West Kalabsha	AWKL	Egypt	23.4252N	32.4470E		
West Kanaga	AT1	Alaska,U.S.A.	51.6650N	177.6420W	61	From 1975-01-01 to 1976-10-31
West Kanaga	AK1	Alaska,U.S.A.	51.6650N	177.6420W	61	From 1976-10-01 to 1992-02-01
Westland Maintenance Station	PWMM	California,U.S.A.	36.4328N	120.2110W	72	
West Mesa	WMA	New Mexico,U.S.A.	35.0722N	106.8560W	1804	
West Middle School	WMS	South Carolina,U.S.A.	33.4258N	80.7408W	34	
West Mington	ST13A	Xizang Zizhiqu,China	31.7262N	89.7031E	4596	From 1998-08-06 to 1999-05-09
West Monroe	WMNY	New York,U.S.A.	43.3560N	76.0313W	158	
Westmoorings	TWMO	Trinidad and Tobago	10.6700N	61.5600W	0	
Westmoreland	WEST	New York,U.S.A.	43.1635N	75.4800W	167	
Westmorland	WML	California,U.S.A.	33.0152N	115.6225W	-44	
West Mountain	WMU	Utah,U.S.A.	40.0883N	111.8230W	2053	From 1973-12-01 to 1981-08-31
West Mountain	WMUT	Utah,U.S.A.	40.0767N	111.8330W	1981	From 1981-07-01
West Nyswonger Mesa	PV20	Colorado,U.S.A.	38.3415N	108.9672W	1852	
West of Eustis	G62A	Maine,U.S.A.	45.2186N	70.5319W	426	From 2013-09-20
West of Nyma	STW1	Xizang Zizhiqu,China	32.0923N	88.3062E	4614	From 1998-08-02 to 1999-06-01
Weston	WES	Massachusetts,U.S.A.	42.3847N	71.3221W	60	From 1930-12-01
West Palm Beach	060Z	Florida,U.S.A.	26.4062N	80.5560W	9	From 2012-05-13
West Park	WPNY	New York,U.S.A.	41.8030N	73.9707W	76	From 1978-05-22 to 1986-09-30
West Pit	WPH	Hawaii,U.S.A.	19.4117N	155.2920W	1115	From 1962-10-31 to 1999-08-25
Westpoint	W47A	Tennessee,U.S.A.	35.2511N	87.5946W	293	From 2012-01-23
Westport, CT	WSPT	Connecticut,U.S.A.	41.1700N	73.3300W	50	From 2008-06-19
West Portland	WPO	Oregon,U.S.A.	45.5733N	122.7900W	334	From 1986-10-01
Westray	OWE	Orkney Islands,United Kingdom	59.3180N	3.0289W	87	From 1995-09-21
West Rim	WRMHI	Hawaii,U.S.A.	19.4065N	155.3000W	1163	
West Salem	WSIL	Illinois,U.S.A.	38.4981N	88.0750W	15	
Westside ANR, Five Points	U05C	California,U.S.A.	36.3356N	120.1205W	92	From 2004-12-06 to 2007-12-06
Westside School	WESC	California,U.S.A.	32.7590N	115.7316W	-8	
West Thumb	WTW	Wyoming,U.S.A.	44.4145N	110.5710W	2365	From 1972-10-01 to 2004-03-05
West Tongariro	WTVZ	North Island,New Zealand	39.1153S	175.5897E	1186	From 2004-03-04
West Twin Lake	ST30	Xizang Zizhiqu,China	33.0291N	88.8545E	4955	From 1998-07-12 to 1999-06-05
West Valley	WVLY	New York,U.S.A.	42.4708N	78.5683W	600	From 1977-11-03 to 2002-12-20
West Valley, New York	WVNY	New York,U.S.A.	42.4062N	78.6042W	490	From 2010-08-05
West Yellowstone	YWY	Montana,U.S.A.	44.6058N	111.0970W	2292	From 1974-10-01 to 2004-03-05
Wether Hill Road	WHZ	South Island,New Zealand	45.8924S	167.9470E	345	From 1993-03-22
Wettswil, ZR	EWZT2	Switzerland	47.3373N	8.4932E	690	From 2009-08-29
Wettzell	WET	Bayern,Germany	49.1440N	12.8782E	613	From 1975-01-01
Wetumka	W36A	Oklahoma,U.S.A.	35.1393N	96.2264W	251	From 2010-04-13 to 2012-02-01
Wetzens (Niawier)	NIW1	Netherlands	53.3548N	6.0429E	24	From 2009-05-20
Wetzens (Niawier)	NIW2	Netherlands	53.3548N	6.0429E	-6	From 2009-05-20
Wetzens (Niawier)	NIW3	Netherlands	53.3548N	6.0429E	-36	From 2009-05-20
Wetzens (Niawier)	NIW4	Netherlands	53.3548N	6.0429E	-66	From 2009-05-20
Wewak	WEK	Papua New Guinea	3.4236S	143.6875E	10	From 1968-10-24 to 1969-02-28
Wewak	WEWK	Papua New Guinea	3.5846S	143.6444E	120	From 2013-06-28
Wewak	WWW	Papua New Guinea	3.5858S	143.6400E	100	From 1982-09-29 to 1999-08-25
Wewak	WEW	Papua New Guinea	3.5544S	143.6260E	10	From 1968-09-11
Wewakk	WWKK	Papua New Guinea	3.6230S	143.6240E	442	From 1992-05-26
Whakaora	WHTZ	North Island,New Zealand	38.6660S	175.9575E	822	From 1996-08-17
Whakapapa	WPVZ	North Island,New Zealand	39.2040S	175.5460E	1244	From 2003-12-10

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Whakapapataringa	WPRZ	North Island,New Zealand	38.5196S	176.1624E	461	From 2010-03-24
Whakatane	WTZ	North Island,New Zealand	37.9829S	176.9885E	43	From 1971-06-02 to 1990-11-21
Whakatau	WHH	North Island,New Zealand	38.8827S	176.4952E	921	From 1987-03-02 to 1997-05-25
Whale Back Mountain	WMOR	Oregon,U.S.A.	42.9028N	122.5920W	1860	From 1991-09-01
Whale Island	WHRZ	North Island,New Zealand	37.8557S	176.9748E	375	From 2011-06-27
Whangaehu Hut	WHVZ	North Island,New Zealand	39.2825S	175.5886E	2050	From 2009-03-25
Wharram Farm, Highwood	C17A	Montana,U.S.A.	47.6327N	110.7626W	1080	From 2007-09-01 to 2009-09-06
Wheatland	L24A	Wyoming,U.S.A.	42.0432N	104.9326W	1479	From 2008-07-13 to 2010-05-11
Wheeler Ranch, Garrison	Q13A	Utah,U.S.A.	38.9551N	114.0202W	1583	From 2007-03-02 to 2008-09-04
Wheeler Ridge	WERC	California,U.S.A.	35.0605N	119.0271W	130	From 2001-10-30 to 2004-07-09
Whigham	453A	Georgia,U.S.A.	30.8541N	84.3197W	82	From 2012-02-08
Whinburgh	AWH	England,United Kingdom	52.6300N	0.9511E	60	From 1980-05-01
Whinny Nab	LWH	England,United Kingdom	54.3335N	0.6714W	265	From 1991-01-01
Whipple	P53A	Ohio,U.S.A.	39.4868N	81.3896W	270	From 2012-08-27
Whipple Mountains 2	WH2	California,U.S.A.	34.3145N	114.4092W	1245	From 1974-10-01
Whiskey Butte	WBI	Idaho,U.S.A.	46.5826N	115.9790W	1341	From 1971-10-01 to 1976-01-14
Whiskeytown Dam	WDC	California,U.S.A.	40.5799N	122.5411W	268	From 1973-01-01
Whistler	WSLR	British Columbia,Canada	50.1265N	122.9212W	906	
Whistler	WHB	British Columbia,Canada	50.1280N	122.9550W	695	
Whitaker Ranch, Olney	Z33A	Texas,U.S.A.	33.2865N	98.7648W	362	From 2009-11-06 to 2011-09-11
White Bluff	WBL	Washington,U.S.A.	46.5983N	119.4590W		
White Castle	544A	Louisiana,U.S.A.	30.1100N	91.1612W	-2	From 2011-02-23 to 2013-02-02
Whiteface	WNH	New Hampshire,U.S.A.	43.8683N	71.3997W	220	From 1976-01-01
Whitefish	B13A	Montana,U.S.A.	48.3739N	114.4676W	933	From 2006-09-25 to 2009-08-07
White Fish Lake	WHFN	Northwest Territories,Canada	62.5592N	107.0865W	365	From 2008-07-10
Whitehall	WLZ	North Island,New Zealand	37.8394S	175.5880E	190	From 1989-10-30 to 1998-12-08
Whitehorse	WH-YK	Yukon Territory,Canada	60.7342N	135.1492W	762	From 1965-10-21 to 1965-11-15
Whitehorse	WH2*	Yukon Territory,Canada	60.6947N	134.9672W	853	From 1966-11-24
Whitehorse	WHC	Yukon Territory,Canada	60.7367N	135.0980W	734	From 1971-09-01 to 1993-08-24
Whitehorse	WHY	Yukon Territory,Canada	60.6597N	134.8810W	1292	From 1993-08-27
Whitehorse	WH-	Yukon Territory,Canada	60.7342N	135.1492W	762	From 1965-10-21 to 1965-11-15
Whitehorse	WH2YK	Yukon Territory,Canada	60.6947N	134.9672W	853	From 1966-11-24
White Island	WIZ	North Island,New Zealand	37.5265S	177.1894E	40	From 1976-12-12
White Island Summit, North Island, New Zealand	WSRZ	North Island,New Zealand	37.5181S	177.1778E	290	From 2013-04-08
White-Moore Ranch, Lipan	134A	Texas,U.S.A.	32.5729N	98.0795W	297	From 2009-11-16 to 2011-09-08
White Mountain Lookout Tower, Alberta	WTMTA	Alberta	55.6942N	119.2398W	1029	From 2014-07-30
White Mtn Res Sta-Crooked Creek, Bishop	S08C	California,U.S.A.	37.4993N	118.1711W	3087	From 2005-08-02 to 2007-10-03
White Oak	X56A	South Carolina,U.S.A.	34.4923N	81.0319W	112	From 2013-02-04
White Oak Lake	WLAR	Arkansas,U.S.A.	33.6875N	93.1120W	77	
White Oak Mountain	WMTN	Tennessee,U.S.A.	35.2480N	84.9732W	378	From 1985-07-24
White Pass	WPW	Washington,U.S.A.	46.6982N	121.5470W	1250	
White Pine	WPM	Michigan,U.S.A.	46.7515N	89.5549W	193	From 1973-01-01
White River	WTRB	British Columbia,Canada	50.1298N	126.0353W	353	From 2005-04-21
White River	YUK2	Yukon Territory,Canada	61.7868N	140.8426W	1229	From 2010-08-28
White River City	O20A	Colorado,U.S.A.	40.1348N	108.2416W	1915	From 2007-11-12
White River Glacier	WRG	Alaska,U.S.A.	60.0378N	142.0320W	550	From 1974-09-10
White Rock	WKB	British Columbia,Canada	49.0437N	122.8180W	110	
White Salmon	F05D	Washington,U.S.A.	45.8852N	121.4597W	472	From 2010-08-13
White Salmon	F05A	Washington,U.S.A.	45.8839N	121.4588W	454	From 2005-11-02 to 2008-01-26
Whitesboro	X38A	Oklahoma,U.S.A.	34.6692N	94.8288W	234	From 2010-06-09 to 2012-02-06
Whites Canyon	WTCR	Nevada,U.S.A.	39.3890N	119.8392W	1890	
White Tail Canyon, San Simon	219A	Arizona,U.S.A.	31.9989N	109.2592W	1581	From 2007-03-10 to 2009-01-19
Whitewater	WWR	California,U.S.A.	33.9918N	116.6560W	702	From 1975-01-01
Whiting	H66A	Maine,U.S.A.	44.7859N	67.3115W	55	From 2013-09-25
Whiting Field	WFF	Florida,U.S.A.	30.7083N	87.0167W		From 1949-01-01 to 1956-12-31
Whitney	WHI	Hawaii,U.S.A.	19.4317N	155.2620W	1210	From 1961-01-01 to 1963-02-01
Whyalla	WHYH	South Australia,Australia	33.0330S	137.5744E	43	From 2009-01-01
Wichita Mountains	WMOK	Oklahoma,U.S.A.	34.7379N	98.7810W	486	From 1992-09-30
Wichita Mountains Array	WMO	Oklahoma,U.S.A.	34.7182N	98.5891W	505	
Wickenburg	Y14A	Arizona,U.S.A.	33.9383N	113.0048W	730	From 2006-03-14 to 2010-05-28
Wied Dalam	WDD	Malta	35.8373N	14.5242E	44	From 1995-07-06
Wiedeman Farm, Cecilia	S48A	Kansas,U.S.A.	37.6574N	86.0569W	238	From 2011-12-08
Wiesbaden	GWBE	Hessen,Germany	50.1076N	8.1814E	271	From 2001-11-22
Wiest Lake	WLK	California,U.S.A.	33.0513N	115.4910W	-52	From 1973-04-16
Wiggins	O25A	Colorado,U.S.A.	40.1129N	104.1201W	1444	From 2008-07-03 to 2010-05-16
Wijnaldum	WYN4	Netherlands	53.1995N	5.4577E	-120	From 2010-03-04
Wijnaldum	WYN2	Netherlands	53.1995N	5.4577E	-60	From 2010-03-04
Wijnaldum	WYN1	Netherlands	53.1995N	5.4577E	-30	From 2010-03-04
Wijnaldum	WYN3	Netherlands	53.1995N	5.4577E	-90	From 2010-03-04
Wila	WILA	Switzerland	47.4147N	8.9075E	908	From 2000-01-12
Wilburton Instructional Services Center	WISC	Washington,U.S.A.	47.6089N	122.1744W	10	
Wildcat Mountain	WCT	Nevada,U.S.A.	36.7928N	116.6257W	977	From 1981-04-08
Wildenmoos	RWMO	Bayern,Germany	47.7440N	12.7300E	763	From 2001-04-09
Wildhorse	WLDR	Nevada,U.S.A.	38.8235N	118.5747W	1798	
Wild Horse	WHU	Utah,U.S.A.	39.3806N	112.1700W	1993	From 1974-10-01 to 1981-10-31
Wild Horse Canyon	WLD	Utah,U.S.A.	38.4603N	112.8640W	1804	
Wildhorse Creek, Mackay	I13A	Idaho,U.S.A.	43.9146N	114.1169W	2104	From 2007-01-10 to 2009-06-03
Wild Horse Parks	WHM	Montana,U.S.A.	46.7621N	113.1810W	1792	From 1974-09-06 to 1976-10-04
Wild Horse Valley	WVOR	Oregon,U.S.A.	42.4339N	118.6370W	1344	From 1994-06-01
Wildlife	WLJ	Utah,U.S.A.	40.6133N	111.3447W	2075	From 1992-11-04
Wilkes	WIL	Wilkes Land	66.2592S	110.5270E	10	From 1957-01-01 to 1966-12-23
Wilkes Camp	WIH	Hawaii,U.S.A.	19.4692N	155.5840W	4037	
Wilkinson Ranch, McDermitt	L09A	Nevada,U.S.A.	42.0192N	117.6667W	1430	From 2006-04-25 to 2008-04-02
Willalooka	WKA	South Australia,Australia	36.4170S	140.3210E	40	From 1979-03-01
Willamette Meridian	K02D	Oregon,U.S.A.	42.6955N	123.6654W	989	From 2010-08-05
Willards	R61A	Maryland,U.S.A.	38.3303N	75.3390W	76	From 2013-05-27
Williams	W15A	Arizona,U.S.A.	35.1787N	112.2666W	2034	From 2006-03-11 to 2008-11-08
Williams	WM-AZ	Arizona,U.S.A.	35.4178N	112.2150W	1920	From 1961-12-12 to 1962-05-03
Williams	WMZ	Arizona,U.S.A.	35.1581N	112.3200W	2018	From 1986-01-31
Williams	WM-	Arizona,U.S.A.	35.4178N	112.2150W	1920	From 1961-12-12 to 1962-05-03
Williamsburg	WBO	Ontario,Canada	45.0003N	75.2750W	85	From 1980-12-09
Williams Family Ranch, Las Cruces	222A	New Mexico,U.S.A.	32.1046N	107.1013W	1324	From 2008-02-14 to 2010-01-17
Williams Farm, Concordia	P33A	Kansas,U.S.A.	39.4363N	97.6946W	488	From 2009-09-20 to 2011-08-23
Williams Lake	WK-	British Columbia,Canada	52.1786N	121.9817W	975	From 1962-10-17 to 1962-10-27
Williams Lake	WK-BC	British Columbia,Canada	52.1786N	121.9817W	975	From 1962-10-17 to 1962-10-27
Williamson	S53A	West Virginia,U.S.A.	37.6815N	82.1264W	564	From 2013-01-15
Williamson	Z52A	Georgia,U.S.A.	33.1893N	84.4176W	252	From 2012-04-11
Williamsport	P51A	Ohio,U.S.A.	39.4818N	83.0601W	211	From 2012-07-23
Williams Ranch	WRC	California,U.S.A.	35.2983N	118.6120W	430	From 1952-01-01 to 1953-12-31
Williamstown	J57A	New York,U.S.A.	43.4099N	75.9968W	191	From 2013-08-22
Williamstown	WLL	Massachusetts,U.S.A.	42.7142N	73.2111W	220	
Williamstown	K61A	Massachusetts,U.S.A.	42.6695N	73.2676W	391	From 2013-09-26
Williston	Z56A	South Carolina,U.S.A.	33.3253N	81.3687W	81	From 2013-02-20
Willow Creek	WICI	Idaho,U.S.A.	44.1750N	113.8870W	2088	
Willow Creek	WCU	Utah,U.S.A.	38.9647N	112.0907W	2673	From 1978-02-01
Willow Creek Ranch, Ely	Q12A	Nevada,U.S.A.	39.0400N	114.8299W	1625	From 2006-05-26 to 2008-09-04
Willow Grove Farm, Nelson	Q39A	Missouri,U.S.A.	39.0455N	92.9759W	225	From 2010-12-01 to 2012-09-28
Willow Gulch Bison Ranch, Deer Trail	P25A	Colorado,U.S.A.	39.5125N	104.1680W	1753	From 2008-06-10 to 2010-05-06
Willow Mountain	WLM	Alaska,U.S.A.	61.7736N	145.1980W	988	From 1972-02-24 to 1972-07-22
Willow Spring Farm, Andover	S34A	Kansas,U.S.A.	37.7009N	97.1111W	373	From 2010-03-17 to 2012-03-04
Wills Point	WP-TX	Texas,U.S.A.	32.6069N	95.8861W	161	
Willston	656A	Florida,U.S.A.	29.3689N	82.5348W	28	From 2012-02-16
Willung South	WILL	Victoria,Australia	38.3393S	146.7367E	425	
Willy Bob	ANWB	Barbuda,Antigua and Barbuda	17.6685N	61.7856W	39	
Wilmington	WNY	New York,U.S.A.	44.3910N	73.8595W	598	From 1971-10-01
Wilmington	WNC	North Carolina,U.S.A.	34.0581N	78.2461W	20	From 1976-05-03
Wilpena Pound	FR27	South Australia,Australia	31.5230S	138.6230E	534	From 2003-09-17
Wilshire Harrah	OK002	Oklahoma,U.S.A.	35.5493N	97.1966W	354	
Wilson	WLO	Oklahoma,U.S.A.	34.0648N	97.3697W	284	From 1977-04-25
Wilson Butte	WBW	Washington,U.S.A.	48.0178N	119.1370W	826	From 1975-06-01
Wilson Creek	WCK	Kentucky,U.S.A.	36.9340N	88.8740W	137	From 1974-07-19
Wilson Peak	WPI	Idaho,U.S.A.	43.2889N	116.7500W		
Wimauma	957A	Florida,U.S.A.	27.6702N	82.2357W	35	From 2012-02-18
WI Miller and Sons, Farmdale	M53A	Pennsylvania,U.S.A.	41.4393N	80.6750W	334	From 2013-01-14
Wimmelburg	WIMM	Sachsen-Anhalt,Germany	51.5210N	11.5050E	80	From 2008-07-16
Wimmis	WIMIS	Switzerland	46.6649N	7.6242E	770	From 2000-05-24
Winchester	P42A	Illinois,U.S.A.	39.5853N	90.3443W	197	From 2011-06-19 to 2013-04-14
Windham	WND	New York,U.S.A.	42.3373N	74.1525W	602	From 1976-10-08
Windhoek	WIN	Namibia	22.5667S	17.1000E	1728	From 1959-01-01

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
WINDLESS BIGHT INFRASONIC ARRAY REFERENCE POINT	WBIV	Victoria Land	77.7315S	167.5874E	42	From 2001-12-02
Windom	WD-MN	Minnesota,U.S.A.	44.1161N	95.1550W	381	
Windom	WD-	Minnesota,U.S.A.	44.1161N	95.1550W	381	
Window Rock	V19A	Arizona,U.S.A.	35.7147N	109.0456W	2082	From 2007-05-10 to 2009-02-21
Windsor	WNR	Ontario,Canada	42.2583N	83.1056W	-122	From 1978-03-08 to 1979-04-30
Windswept, Luxemburg	H43A	Wisconsin,U.S.A.	44.4697N	87.7704W	274	From 2011-10-06 to 2013-11-27
Windy Craggy	WCBC	British Columbia,Canada	59.6278N	137.7160W	750	From 1988-06-10 to 1990-08-06
Windy Hill, Pittsboro	V58A	North Carolina,U.S.A.	35.7940N	79.1150W	127	From 2013-04-22
Windy Ridge, Mt. St. Helens	B202	Washington,U.S.A.	46.2447N	122.1367W	981	
Winespring Bald	WSNC	North Carolina,U.S.A.	35.1725N	83.5806W	1640	
Winneba	WIGH	Ghana	5.3636N	0.6189W	64	From 1987-01-01
Winnemucca	WMN	Nevada,U.S.A.	40.9800N	117.9200W	1524	From 1974-03-01 to 1975-07-31
Winnemucca	WI-NV	Nevada,U.S.A.	41.3506N	117.4583W	1524	From 1961-12-10 to 1964-03-03
Winnemucca	WI-	Nevada,U.S.A.	41.3506N	117.4583W	1524	From 1961-12-10 to 1964-03-03
Winner	WN-SD	South Dakota,U.S.A.	43.2522N	100.1961W	792	From 1961-12-01 to 1966-10-31
Winner	WN-	South Dakota,U.S.A.	43.2522N	100.1961W	792	From 1961-12-01 to 1966-10-31
Wino	WINO	Tanzania,United Republic of Tanzania	9.7577S	35.3002E	1502	
Winona	Z45A	Mississippi,U.S.A.	33.3705N	89.6913W	113	From 2011-04-19 to 2013-02-04
Winslow	W17A	Arizona,U.S.A.	35.0789N	110.7127W	1461	From 2007-04-28 to 2009-02-04
Winslow	WO-AZ	Arizona,U.S.A.	34.8814N	110.6208W	1585	From 1964-04-01 to 1965-10-04
Winslow	WO-	Arizona,U.S.A.	34.8814N	110.6208W	1585	From 1964-04-01 to 1965-10-04
Winter Ranch, Mooreland	U32A	Oklahoma,U.S.A.	36.3795N	99.0014W	525	From 2009-10-24 to 2012-02-27
Winters	Q03C	California,U.S.A.	38.6333N	122.0145W	108	From 2005-06-28 to 2007-12-04
Wintersburg	Z14A	Arizona,U.S.A.	33.3627N	112.9458W	297	From 2006-03-16 to 2010-05-28
Winterswijk	WTSB	Netherlands	51.9663N	6.7989E	43	
Winterswijk	WTS	Netherlands	51.9956N	6.8100E	43	From 1976-07-01 to 2005-05-27
Winterswijk	NE40	Netherlands	51.9755N	6.7350E	37	
Winthrop	B07A	Washington,U.S.A.	48.4607N	120.1197W	781	From 2006-09-15 to 2008-05-15
Wisdom	F14A	Montana,U.S.A.	45.8122N	113.3699W	1851	From 2006-10-19 to 2009-07-09
Wise	T53A	Virginia,U.S.A.	36.9823N	82.5350W	818	From 2013-01-18
Wishkah	WISH	Washington,U.S.A.	47.1172N	123.7699W	45	
Wishkah Elem. School, Wishkah	D03A	Washington,U.S.A.	47.1161N	123.7714W	31	From 2004-09-16 to 2008-02-13
Wister	WIS	California,U.S.A.	33.2760N	115.5930W	-68	
Witteveen	WIT	Netherlands	52.8133N	6.6683E	17	From 1982-07-01
Witteveen	NE04	Netherlands	52.8133N	6.6683E		From 1982-07-01
Witton	AWI1	England,United Kingdom	52.8319N	1.4471E	46	From 1983-01-01
Wittsburg Lake	WLA	Arkansas,U.S.A.	35.1860N	90.7160W	113	From 1979-08-02
Witts Springs	V40A	Arkansas,U.S.A.	35.8044N	92.8232W	570	From 2011-02-20 to 2012-11-05
Witu Islands	WITU	New Britain,Papua New Guinea	4.6925S	149.4890E	100	From 1983-11-24
Wivenhoe Hill 3	WWHQ	Queensland,Australia	27.3702S	152.5872E		From 1984-07-12
WK&E Inc. Balko	U30A	Oklahoma,U.S.A.	36.5304N	100.6509W	881	From 2009-04-06 to 2011-03-12
W Memph W Sta	HDAR	Tennessee,U.S.A.	35.1536N	90.0893W	0	
Wolcott	J56A	New York,U.S.A.	43.2760N	76.8579W	93	From 2013-08-18
Wolfeboro	WBNH	New Hampshire,U.S.A.	43.6040N	71.0990W	200	
Wolkenburger Bergbaurevier	ANNA	Thuringen	50.8840N	12.6437E	249	From 2014-03-25
Wollersheim	BA14	Nordrhein-Westfalen,Germany	50.6717N	6.5661E	239	From 2006-10-01
Wollman Farm, Schrag	D08A	Washington,U.S.A.	47.0573N	118.9210W	385	From 2006-08-29 to 2008-11-12
Wollongong Hard Rock	WOLH	New South Wales,Australia	34.4071S	150.8740E	77	From 2011-03-23
Wolsey	H31A	South Dakota,U.S.A.	44.4795N	98.4772W	415	From 2010-08-22 to 2012-06-07
Wolven Farm, McFall	O37A	Missouri,U.S.A.	40.1664N	94.1461W	284	From 2010-11-17 to 2012-09-24
Wolverton	WOL	England,United Kingdom	51.3127N	1.2228W	156	
Wolverton North	WON	England,United Kingdom	51.3275N	1.2008W	104	
Wonder Ranch	GWRM	California,U.S.A.	39.2072N	123.3000W	658	
Wongan Hills	WA1	Western Australia,Australia	30.9098S	116.7280E	260	From 1973-01-31 to 1973-05-19
Wonju	KSWON	Republic of Korea	37.3342N	127.9426E	149	From 1999-04-20
Wonju	KSWJU	Republic of Korea	37.4034N	128.0526E	385	From 2005-11-24
Wonju Array Beam Reference Point	KSAR	Republic of Korea	37.4421N	127.8844E	109	
Wonju Array Site 1	KS01	Republic of Korea	37.4766N	127.8940E	185	
Wonju Array Site 10	KS10	Republic of Korea	37.4961N	127.9302E	210	
Wonju Array Site 11	KS11	Republic of Korea	37.4808N	127.9535E	122	
Wonju Array Site 12	KS12	Republic of Korea	37.4644N	127.9427E	176	
Wonju Array Site 13	KS13	Republic of Korea	37.4458N	127.9302E	126	
Wonju Array Site 14	KS14	Republic of Korea	37.4336N	127.9094E	132	
Wonju Array Site 16	KS16	Republic of Korea	37.4516N	127.8557E	123	
Wonju Array Site 17	KS17	Republic of Korea	37.4674N	127.8407E	139	
Wonju Array Site 18	KS18	Republic of Korea	37.4861N	127.8444E	164	
Wonju Array Site 19	KS19	Republic of Korea	37.5019N	127.8669E	276	
Wonju Array Site 2	KS02	Republic of Korea	37.4953N	127.9032E	233	
Wonju Array Site 3	KS03	Republic of Korea	37.4783N	127.9177E	155	
Wonju Array Site 32	KS32	Republic of Korea	37.5778N	127.9519E	232	
Wonju Array Site 33	KS33	Republic of Korea	37.7561N	128.0260E	250	
Wonju Array Site 34	KS34	Republic of Korea	37.6028N	128.1480E	264	
Wonju Array Site 35	KS35	Republic of Korea	37.4694N	128.0685E	177	
Wonju Array Site 36	KS36	Republic of Korea	37.5679N	127.7190E	131	
Wonju Array Site 37	KS37	Republic of Korea	37.7153N	127.7975E	122	
Wonju Array Site 4	KS04	Republic of Korea	37.4566N	127.9207E	123	
Wonju Array Site 5	KS05	Republic of Korea	37.4574N	127.8924E	139	
Wonju Array Site 6	KS06	Republic of Korea	37.4708N	127.8719E	408	
Wonju Array Site 7	KS07	Republic of Korea	37.4874N	127.8727E	237	
Wonju Array Site 8	KS08	Republic of Korea	37.5153N	127.8882E	277	
Wonju Array Site 9	KS09	Republic of Korea	37.5108N	127.9224E	323	
Wonju Array Sites 15 and 31	KS15	Republic of Korea	37.4421N	127.8844E	112	
Wonogiri, Jawa	WOJI	Jawa,Indonesia	7.8372S	110.9236E	0	From 2008-12-01
Wooded Hills, Hulbert	E45A	Michigan,U.S.A.	46.3563N	85.1774W	251	From 2011-09-20
Wooded Island	WIW	Washington,U.S.A.	46.4293N	119.2877W	128	From 1970-07-01
Wood Farm, Starbuck	E09A	Washington,U.S.A.	46.5139N	118.1455W	304	From 2006-09-26 to 2009-01-08
Woodlark Island	WDIS	D'Entrecasteaux Islands,Papua New Guinea	9.0850S	152.7190E	80	From 1983-11-21
Wood River Hill	WRH	Alaska,U.S.A.	64.4713N	148.0900W	314	
Woodside	JWSM	California,U.S.A.	37.4180N	122.2720W	280	From 1966-12-21
Woodside	LT6	California,U.S.A.	37.4180N	122.2720W	280	From 1966-12-21
Woodside	WDS	California,U.S.A.	37.4180N	122.2720W	280	From 1966-12-21
Woodstock	WOO	Maryland,U.S.A.	39.3333N	76.8750W		
Wood Valley	WOH	Hawaii,U.S.A.	19.2513N	155.5020W	909	
Woodville	X49A	Arkansas,U.S.A.	34.5126N	86.3260W	182	From 2011-12-11
Woodward Ranch, Alpine	527A	Texas,U.S.A.	30.1456N	103.6119W	1419	From 2008-03-06 to 2010-02-08
Woody	WDY	California,U.S.A.	35.7000N	118.8430W	500	From 1952-08-05 to 1970-08-27
Woody Point	WPA	Queensland,Australia	27.2603S	153.2560E	10	
Woolen Ranch, Alma	O31A	Nebraska,U.S.A.	40.1521N	99.3261W	631	From 2009-09-13 to 2011-08-20
Woolibar	WOOL	Western Australia,Australia	31.0730S	121.6780E	325	From 1994-06-01
Wooly Hollow	WHAR	Arkansas,U.S.A.	35.2902N	92.2885W	184	
Wooly Knot Farm, English	R47A	Indiana,U.S.A.	38.2957N	86.5270W	181	From 2011-11-25
Woomera	WSA	South Australia,Australia	31.1450S	136.8050E		
Worcester	WOR	Massachusetts,U.S.A.	42.2667N	71.8000W	203	
Workman Tunnel	WTX	New Mexico,U.S.A.	34.0722N	106.9460W	1555	
Work Ranch	PK2	California,U.S.A.	35.8145N	120.5110W	503	
Work Ranch	WKR	California,U.S.A.	35.8145N	120.5110W	503	
Work Ranch	PWKM	California,U.S.A.	35.8145N	120.5110W	503	
Worland	I20A	Wyoming,U.S.A.	43.9496N	108.1283W	1342	From 2008-07-27 to 2010-09-13
Woronora	WRNM	New South Wales,Australia	34.1414S	150.9516E	259	
Worthington Mountains	WRN	Nevada,U.S.A.	37.9815N	115.5906W	1743	From 1979-06-08 to 2002-10-10
Woss	WOSB	British Columbia,Canada	50.1607N	126.5704W	955	
Woudbloem	WDB	Netherlands	53.2090N	6.7349E	-2	
Woudbloem 1	WDB1	Netherlands	53.2083N	6.7355E	-49	From 2010-04-29
Woudbloem 2	WDB2	Netherlands	53.2083N	6.7355E	-99	From 2010-04-29
Woudbloem 3	WDB3	Netherlands	53.2083N	6.7355E	-149	From 2010-04-29
Woudbloem 4	WDB4	Netherlands	53.2083N	6.7355E	-199	From 2010-04-29
Wrangell Chichokna Glacier	WACK	Alaska,U.S.A.	61.9863N	144.3284W	2280	
Wrangell Island	WRAK	Alaska,U.S.A.	56.4191N	132.3466W	80	
Wrangell Mount Zanetti	WAZA	Alaska,U.S.A.	62.0751N	144.1522W	2531	
Wrangell North Crater	WANC	Alaska,U.S.A.	62.0031N	144.0699W	4190	
Wrangell Southwest	WASW	Alaska,U.S.A.	61.9282N	144.1724W	2196	
Wrenshall	E37A	Minnesota,U.S.A.	46.5658N	92.4000W	304	From 2010-10-16 to 2012-08-05
Wright Ranch	NWRM	California,U.S.A.	38.4570N	122.8880W	50	From 1970-08-14
Wright's Hill	WHW	North Island,New Zealand	41.2958S	174.7382E	383	From 1975-09-26 to 1985-09-30
Wright State University--Celina	WSCO	Ohio,U.S.A.	40.5460N	84.5090W	270	
Wright State University--Dayton	WSDO	Ohio,U.S.A.	39.7830N	84.0630W	289	
Wristen Ranch, Grandfalls	328A	Texas,U.S.A.	31.3818N	102.8097W	755	From 2008-04-22 to 2010-02-13
Wroclaw	BRE	Poland	51.0742N	16.9994E	125	From 1928-01-01 to 1945-01-01
Wuestenhain	WUET	Sachsen,Germany	51.0093N	12.5802E	196	From 2004-07-08

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Wu-fen Shan	NWF	Taiwan region	25.0710N	121.7810E	765	
Wu-fen Shan	WFSB	Taiwan region	25.0710N	121.7810E	100	
Wuhan	WUH	Hubei,China	30.5267N	114.5580E	50	
Wuhan	WHN	Hubei,China	30.5436N	114.3500E	26	
Wuhan	WUC	Hubei,China	30.5436N	114.3500E	26	
Wulai	NWLT	Taiwan region	24.7772N	121.5025E	397	
Wulai	TWU	Taiwan region	24.8775N	121.5336E	330	From 1977-11-08
Wupatki	WUAZ	Arizona,U.S.A.	35.5169N	111.3739W	1592	From 1998-05-12
Wushi	WUS	Xinjiang Uygur Zizhiqu,China	41.1990N	79.2180E	1457	From 1988-10-21
Wuwei	WUW	Gansu,China	37.9283N	102.6380E		
Wyandotte	OWYM	California,U.S.A.	39.4530N	121.4870W	168	
Wyandotte	OWAM	California,U.S.A.	39.4530N	121.4870W	168	From 1975-08-05
Wyandotte Cave	WCI	Indiana,U.S.A.	38.2290N	86.2938W	210	From 2010-08-23
Wyangala	WYA	New South Wales,Australia	33.9269S	148.9240E		
Wyevale	H52A	Ontario,Canada	44.6422N	79.8888W	209	From 2012-11-16
Wyhlen	WYH	Baden-Wurttemberg,Germany	47.5508N	7.7018E	310	From 1987-04-14
Wykoff	WF-	Minnesota,U.S.A.	43.8014N	92.3731W	381	From 1964-08-30 to 1964-11-24
Wykoff	WF-MN	Minnesota,U.S.A.	43.8014N	92.3731W	381	From 1964-08-30 to 1964-11-24
Wynnburg	WYBT	Tennessee,U.S.A.	36.3477N	89.4975W	82	
Wynne	WY-AR	Arkansas,U.S.A.	35.6122N	90.7069W	122	
Wynne	WY-	Arkansas,U.S.A.	35.6122N	90.7069W	122	
Wyoming Array	WY0	Wyoming,U.S.A.	42.7778N	109.5560W	2190	From 1977-06-20 to 1999-08-25
Wyoming Array	WYO	Wyoming,U.S.A.	42.7778N	109.5556W	2190	From 1977-06-20 to 1999-08-25
Xanthi	XAN2	Greece	41.1420N	24.8908E	31	From 2011-06-01
X Bar L Ranch, Newkirk	W25A	New Mexico,U.S.A.	35.2177N	104.4606W	1446	From 2008-04-24 to 2010-04-07
Xhotanan	XTNZ	Armenia	39.2800N	46.3800E	0	
Xi'an	XAN	Shaanxi,China	34.0394N	108.9214E	630	
Xi'an	SPE	Shaanxi,China	34.0394N	108.9210E	630	
Xi'an	SIA	Shaanxi,China	34.2483N	108.9200E	395	
Xinbi	SSPT	Taiwan region	22.4835N	120.5681E	16	From 2011-12-29
Xindian District, New Taipei City	NHDH	Taiwan region	24.9630N	121.5250E	41	From 2013-01-18
Xingo	XIN	Alagoas,Brazil	9.4483S	37.8364W	285	From 1991-01-01
Xining	SNN	Qinghai,China	36.6200N	101.7820E		
Xinwu Township	NHW	Taiwan region	25.0067N	121.0475E	133	From 2013-11-04
Xinyi Township	WHYT	Taiwan region	23.6961N	120.8532E	504	From 2013-01-18
Xiulin Township	ETLH	Taiwan region	24.2068N	121.4818E	849	From 2013-01-18
Xorichti	XOR	Greece	39.3661N	23.1919E	500	From 1996-01-01
Xuru	ST07	Xizang Zizhiqu,China	31.2262N	90.0702E	5079	From 1998-07-16 to 1999-05-27
Yaak	YKM	Montana,U.S.A.	48.8620N	115.7120W	1509	From 1976-10-01 to 2004-03-11
Yaak River Ranch, Troy	A12A	Montana,U.S.A.	48.9339N	115.6526W	928	From 2006-09-27 to 2009-08-05
YACYRETA	YCA	Parana,Brazil	27.4815S	56.6928W	113	From 2002-06-28
Yadsworthy	DYA	England,United Kingdom	50.4352N	3.9309W	280	From 1982-01-01
Yagi	YAG	Nara,Japan	34.5167N	135.8000E	63	
Yagi	YGI	Wakayama,Japan	34.0681N	135.5119E	180	
Yagishiri	JYG	Rumoi,Japan	44.4268N	141.4265E	35	
Yagodnoe	YAGS	Magadanskaya Oblast',Russia	62.5300N	149.6200E	480	
Yahiko	YHKE	Niigata,Japan	37.7336N	138.8030E	30	
Yahtse	YAH	Alaska,U.S.A.	60.3633N	141.7450W	2135	From 1974-09-05
Yahuarcocha	YAHU	Ecuador	0.3699N	78.0714W	3044	From 2011-10-14
Yailyu, Altay Republic, Russia	YALR	Altayskiy Kray,Russia	51.7694N	87.6106E	451	From 2002-07-19
Yakak	AD5	Alaska,U.S.A.	51.6289N	176.9250W	152	From 1974-01-01 to 1992-02-01
Yakataga	YKGM	Alaska,U.S.A.	60.0700N	142.4220W	46	From 1972-10-08
Yakedake	YKE	Gifu,Japan	36.2743N	137.5730E	1160	
Yakima	YA2	Washington,U.S.A.	46.5265N	120.5312W	652	
Yakima	YAKW	Washington,U.S.A.	46.5287N	120.5218W	629	
Yakima	E06A	Washington,U.S.A.	46.5433N	120.9791W	911	From 2006-08-28 to 2008-05-13
Yakima	YA-	Washington,U.S.A.	46.5000N	119.9200W	610	From 1963-01-29 to 1963-03-29
Yakima	YA-WA	Washington,U.S.A.	46.5000N	119.9200W	610	From 1963-01-29 to 1963-03-29
Yakoun River	QURY	British Columbia,Canada	53.3763N	132.2225W	238	
Yakumo	JYM	O shima,Japan	42.2012N	140.2533E	170	
Yakumo 2	JYM2	O shima,Japan	42.1172N	140.3700E	120	
Yakuplu-Istanbul	YKBL	Turkey	40.9908N	28.6675E	139	From 2011-01-01
Yaku shima	YKS	Ryukyu Islands,Japan	30.4500N	130.4970E	15	
Yakushimahirauchi	JYAK	Ryukyu Islands,Japan	30.2378N	130.5097E	90	From 2010-02-01
Yakutat	YKU2	Alaska,U.S.A.	59.5121N	139.6710W	10	
Yakutat	YKU	Alaska,U.S.A.	59.5531N	139.7290W	20	From 1978-05-01 to 2004-05-13
Yakutat	YKT	Alaska,U.S.A.	59.3686N	138.8770W	372	From 1972-10-06 to 1974-09-30
Yakutsk	YAK	Sakha,Russia	62.0311N	129.6811E	91	
Yaldymych	YAT	Tajikistan	39.0500N	70.4300E	1410	
Yale	YLE	Connecticut,U.S.A.	41.3150N	72.9365W	5	
Yalikavak-Bodrum	YKAV	Turkey	37.1245N	27.2800E	112	From 2011-04-18
Yal¯–koy-Catalca	KIYI	Turkey	41.4846N	28.2997E	10	From 2011-01-12
Yalikoy Yolu	CTYL	Turkey	41.4750N	28.2891E	77	From 2007-09-29
Yallahs	YHJ	Jamaica	17.8920N	76.4930W	600	
Yalova	CFTB	Turkey	40.6642N	29.2993E	0	From 2014-01-01
Yalova	YLV	Turkey	40.5667N	29.3728E	829	From 1982-01-01
Yalova	YLVH	Turkey	40.6953N	29.3705E	1	From 2011-01-01
Yalta	YAL	Ukraine	44.4875N	34.1547E	23	
Yamagata	YAM	Yamagata,Japan	38.2533N	140.3483E	153	
Yamagata	YAMJ	Yamagata,Japan	38.1733N	140.0370E	180	From 1978-01-01
Yamagatataniai	JYTA	Gifu,Japan	35.5937N	136.7355E	109	From 2012-11-01
Yamagatayuza	JYYZ	Yamagata,Japan	39.0162N	139.9305E	28	
Yamanlar	YAMN	Turkey	38.5531N	27.1575E	997	From 1996-04-01 to 1999-07-01
Yamasaki	K02	Iwate,Japan	39.3744N	141.5967E	346	
Yamasaki	YZT	Hyogo,Japan	35.1030N	134.5065E	320	
Yamba Lake	YMBN	Northwest Territories,Canada	64.8742N	111.5325W	438	
Yamba Lake Northeast	YNEN	Northwest Territories,Canada	65.0883N	111.0500W	463	
Yambol	JMB	Bulgaria	42.4667N	26.5833E	216	From 1983-08-01
Yamhill	G03A	Oregon,U.S.A.	45.3153N	123.2811W	208	From 2006-07-15 to 2008-01-25
Yamizo	YMZ	Tochigi,Japan	36.9241N	140.2479E	500	From 1976-06-18
Yamizo	YMZU	Tochigi,Japan	36.9232N	140.2460E	500	From 1976-06-18
Yana	YANA	Ecuador	0.1182S	78.5712W	3780	From 1988-09-27
Yanaizu	JFY	Fukushima,Japan	37.4068N	139.7048E	420	
Yanbu' al Bahr	YNBS	Saudi Arabia	24.3396N	37.9939E	210	
Yanceyville	IP06	Virginia,U.S.A.	37.9334N	77.9815W	114	
Yangiyul	YNGY	Uzbekistan	41.1100N	69.0400E	352	
Yangoru	YAN	Papua New Guinea	3.6583S	143.2920E	219	
Yangpyeong	YAPA	Republic of Korea	37.4890N	127.4943E	9	From 2011-10-04
YANGPYEONG	KSYAP	Republic of Korea	37.4848N	127.4913E	47	From 2000-01-27
Yanliau Village	TEYL	Taiwan region	23.8680N	121.5980E	30	From 1998-08-07
Yantzaza	YANT	Ecuador	3.8616S	78.7622W	888	From 2008-12-11
Yaongyimsen	YYI	Assam,India	26.5667N	94.6833E	707	From 1979-01-01
Yaounde	YND	Cameroon	3.8700N	11.4600E	750	From 1982-02-01 to 1986-04-23
Yaqui Meadows	YAQ	California,U.S.A.	33.1680N	116.3500W	441	
Yar	YAR	Cuba	20.3700N	76.3600W	200	
Yardimli	YRD	Azerbaijan	38.9162N	48.2409E	1800	From 2013-10-15
Yarimca-Ladik(Samsun)	YARM	Turkey	40.9230N	35.8266E	930	From 2013-12-05
Yaruga	YRG	Sakha,Russia	57.4900N	123.0700E	780	From 1989-01-01
Yasaka	JKY	Kyoto,Japan	35.6285N	135.1040E	260	
Yasato	JYT	Ibaraki,Japan	36.2277N	140.1940E	31	
Yasawairara	YSA	Fiji	16.6980S	177.5777E	50	From 1984-09-22
Yasnyy	YASS	Amurskaya Oblast',Russia	53.3000N	128.0000E	340	
Yasnyy	YASR	Amurskaya Oblast',Russia	53.2900N	127.9800E	330	
Yasuok	JNY	Nagano,Japan	35.3583N	137.8617E	800	
Yate Dam	BAYA	New Caledonia	22.1540S	166.8850E	163	From 2007-10-01
Yates City	N42A	Illinois,U.S.A.	40.8290N	90.0345W	205	From 2011-08-18 to 2013-04-14
Yattir	YTIR	Israel	31.3630N	35.1160E	902	
Yautepec	YAIG	Morelos,Mexico	18.8620N	99.0670W	1340	
Yava	X14A	Arizona,U.S.A.	34.4692N	112.8906W	1077	From 2006-03-12 to 2008-11-06
Yavi	YJA	Jujuy,Argentina	22.1759S	65.5142W	3510	From 1981-12-01
Yayladag	YAYL	Turkey	36.0343N	36.1070E	1225	From 2006-11-27
Yaylak	YAYX	Turkey	38.9386N	33.8115E	1142	From 2010-06-30
Yayoi	YAY	Aomori,Japan	40.6572N	140.3782E	270	
Yazd	YZKH	Iran	32.3901N	54.5916E	1000	
Yeager Farm, Coffeeville	Y45A	Mississippi,U.S.A.	33.8656N	89.5431W	106	From 2011-04-16 to 2013-02-06
Yecheon	KSYCH	Republic of Korea	36.6296N	128.4260E	94	From 2007-12-12
Yedisu-Bingol	YEDI	Turkey	39.4377N	40.5443E	1557	From 2011-05-03
Yeelanna, site6	YE6	South Australia,Australia	34.1589S	135.8323E	180	From 2003-12-11
Yeguas Mountain	YEG	California,U.S.A.	35.4363N	119.9590W	939	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Yeheng	YHNB	Taiwan region	24.6697N	121.3757E	775	
Yell	YEL1	Shetland Islands,United Kingdom	60.5509N	1.0830W	203	From 1979-01-01
Yell	YELU	Shetland Islands,United Kingdom	60.5509N	1.0830W	200	
Yellepit	YPT	Washington,U.S.A.	46.0488N	118.9622W	325	
Yellice	YELT	Turkey	40.4962N	29.1738E	765	From 1994-01-01
Yellow Bay	YBMT	Montana,U.S.A.	47.8633N	114.0115W	1415	
Yellow Creek Bluff	YCB	Alaska,U.S.A.	56.6483N	158.6820W	320	From 1974-01-01
Yellowknife	RSNT	Northwest Territories,Canada	62.4797N	114.5920W	50	From 1982-01-01 to 1987-12-31
Yellowknife	YKC	Northwest Territories,Canada	62.4783N	114.4730W	198	From 1964-07-15
Yellowknife Ar.	YKR8	Northwest Territories,Canada	62.4932N	114.6050W	197	From 1962-01-01
Yellowknife Array	YKR0	Northwest Territories,Canada	62.4931N	114.5090W	205	From 1962-01-01 to 1976-05-31
Yellowknife Array Beam Reference Point	YKA	Northwest Territories,Canada	62.4932N	114.6053W	197	From 1962-01-01
Yellowknife Array Site B0	YKB0	Northwest Territories,Canada	62.6059N	114.6050W	221	From 1962-01-01
Yellowknife Array Site B1	YKB1	Northwest Territories,Canada	62.4024N	114.6054W	172	From 1962-01-01
Yellowknife Array Site B2	YKB2	Northwest Territories,Canada	62.4248N	114.6054W	180	From 1962-01-01
Yellowknife Array Site B3	YKB3	Northwest Territories,Canada	62.4486N	114.6052W	187	From 1962-01-01
Yellowknife Array Site B4	YKB4	Northwest Territories,Canada	62.4711N	114.6049W	192	From 1962-01-01
Yellowknife Array Site B6	YKB6	Northwest Territories,Canada	62.5165N	114.6050W	202	From 1962-01-01
Yellowknife Array Site B7	YKB7	Northwest Territories,Canada	62.5390N	114.6053W	204	From 1962-01-01
Yellowknife Array Site B8	YKB8	Northwest Territories,Canada	62.5616N	114.6047W	197	From 1962-01-01
Yellowknife Array Site B9	YKB9	Northwest Territories,Canada	62.5829N	114.6039W	213	From 1962-01-01
Yellowknife Array Site R1	YKR1	Northwest Territories,Canada	62.4927N	114.9456W	170	From 1962-01-01
Yellowknife Array Site R2	YKR2	Northwest Territories,Canada	62.4928N	114.8964W	175	From 1962-01-01
Yellowknife Array Site R3	YKR3	Northwest Territories,Canada	62.4930N	114.8477W	176	From 1962-01-01
Yellowknife Array Site R4	YKR4	Northwest Territories,Canada	62.4928N	114.7995W	173	From 1962-01-01
Yellowknife Array Site R5	YKR5	Northwest Territories,Canada	62.4933N	114.7499W	182	From 1962-01-01
Yellowknife Array Site R6	YKR6	Northwest Territories,Canada	62.4933N	114.7014W	192	From 1962-01-01
Yellowknife Array Site R7	YKR7	Northwest Territories,Canada	62.4934N	114.6537W	198	From 1962-01-01
Yellowknife Array Site R9	YKR9	Northwest Territories,Canada	62.4932N	114.5558W	201	From 1962-01-01
Yellowknife Array Sites B5 and R8	YKB5	Northwest Territories,Canada	62.4932N	114.6053W	196	From 1962-01-01
Yellowknife Array Site W1	YKW1	Northwest Territories,Canada	62.4932N	114.5090W	198	
Yellowknife Array Site W2	YKW2	Northwest Territories,Canada	62.4248N	114.6054W	200	
Yellowknife Array Site W3	YKW3	Northwest Territories,Canada	62.5608N	114.6160W	198	
Yellowknife Array site W4	YKW4	Northwest Territories,Canada	62.4922N	114.7419W	200	
Yellowpoint	PHYB	British Columbia,Canada	49.0828N	123.8431W	0	From 2004-05-05
Yellow Rock	YEL	Washington,U.S.A.	46.2096N	122.1890W	1750	
Yellowstone Norris Museum	YNM	Wyoming,U.S.A.	44.7265N	110.7037W	2311	From 2012-01-25
Yellowstone Northeast Entrance	YNE	Montana,U.S.A.	45.0076N	110.0080W	2343	From 2011-08-21
Yellowstone Ranch, Lander	K20A	Wyoming,U.S.A.	42.6579N	108.3418W	1736	From 2007-11-09 to 2009-10-08
Yellville	U40A	Arkansas,U.S.A.	36.3563N	92.8535W	374	From 2011-01-27
Yenicaga	BCAM	Turkey	40.8158N	32.0656E	1207	From 2009-11-25
Yen Tu	YTV	Vietnam	21.1570N	106.7170E	0	From 2001-01-01
YEONCHEON	YNCB	Republic of Korea	38.0399N	126.9258E	56	From 2009-01-01
YEONGCHEON	KSYOC	Republic of Korea	35.9713N	128.9522E	94	From 2000-11-20
Yeongdeok	KSYOD	Republic of Korea	36.5000N	129.4000E	41	From 2000-03-09
YEONGJU	KSYOJ	Republic of Korea	36.8680N	128.5181E	210	From 2000-11-22
Yeongwol	KSYOW	Republic of Korea	37.1737N	128.4558E	239	From 2000-02-22
Yeosu	KSYOS	Republic of Korea	34.7350N	127.7390E	66	From 2000-02-09
YEOSU	KSYSU	Republic of Korea	35.1027N	127.5968E	557	From 2006-12-30
Yerba Buena Island	CYBM	California,U.S.A.	37.8113N	122.3610W	24	
Yerba Buena Island	YBIB	California,U.S.A.	37.8142N	122.3592W	-88	
Yeremizino-Borisovskaya	ERBR	Krasnodarskiy Kray,Russia	45.7146N	40.4835E	286	From 2009-10-07
Yerevan	ERE	Armenia	40.1700N	44.4700E	998	From 1932-01-01
Yerington	YERR	Nevada,U.S.A.	38.9852N	119.2406W	1857	
Yerkesik	YER	Turkey	37.1347N	28.2828E	730	From 1974-07-01
Yerranderie	YERM	New South Wales,Australia	34.1425S	150.2321E	554	
Yeshan	MHZQ	Taiwan region	26.1000N	119.0300E	0	From 2011-07-22
Yesilovacik-Mersin	YESI	Turkey	36.1957N	33.6421E	27	From 2011-07-01
Yesilyurt	YESY	Turkey	37.7825N	33.7431E	1206	From 2010-06-30
Yiju	CHN8	Taiwan region	23.3460N	120.2110E	6	
Yilanlidag	MUGL	Turkey	37.2075N	28.4675E	1465	From 2002-11-08 to 2003-05-25
Yinchuan	YNC	Ningxia,China	38.4750N	106.2700E		
Yingkou	YIN	Liaoning,China	40.6667N	122.2333E	2	From 1934-01-01 to 1937-12-31
Ylip??, Raahe	OBF2	Finland	64.5600N	24.4800E	30	From 2013-08-01
Ylistaro	VAF	Finland	63.0422N	22.6715E	55	From 1989-06-06
YM01	YM01	Taiwan region	25.1464N	121.5700E	469	From 2008-02-26
YM03	YM03	Taiwan region	25.1792N	121.5397E	714	From 2008-01-17
YM04	YM04	Taiwan region	25.1537N	121.5363E	369	From 2008-02-24
YM05	YM05	Taiwan region	25.1640N	121.5655E	724	From 2005-10-05
YM06	YM06	Taiwan region	25.1520N	121.6026E	467	From 2005-10-05
YM07	YM07	Taiwan region	25.1754N	121.6204E	456	From 2005-10-11
YM08	YM08	Taiwan region	25.1879N	121.5896E	321	From 2005-10-04
YM09	YM09	Taiwan region	25.2433N	121.5620E	510	From 2008-04-15
YM10	YM10	Taiwan region	25.1555N	121.5609E	615	From 2007-01-24
YM11	YM11	Taiwan region	25.1657N	121.5741E	758	From 2007-04-14
YM12	YM12	Taiwan region	25.1813N	121.5693E	363	From 2007-04-12
YMCA Camp	YCM	Montana,U.S.A.	46.5256N	112.3940W	1597	From 1974-08-06 to 1976-10-04
Yocalla	BB06	Bolivia	19.3897S	65.9105W	3421	From 2012-01-12
Yogyakarta	YOGI	Jawa,Indonesia	7.8166S	110.2949E	160	From 2005-12-01
Yokaichiba	YKI	Chiba,Japan	35.7185N	140.5088E	-142	
Yokohama	YOK	Kanagawa,Japan	35.4367N	139.6567E	38	
Yokooka	YOKT	Akita,Japan	39.1600N	139.9800E	260	
Yokosk	JYO	Kanagawa,Japan	35.2238N	139.6653E	80	
Yokosuka	YSK	Kanagawa,Japan	35.3167N	139.6500E		
Yo Moklole	YOMI	Irian Jaya,Indonesia	2.6428S	140.5600E	260	
Yonago	YON	Tottori,Japan	35.4317N	133.3417E	7	
Yonago 2	YONJ	Tottori,Japan	35.1883N	133.4630E	320	
Yonaguni jima	YOJ	Ryukyu Islands,Japan	24.4617N	123.0108E	32	
Yonaguni jima 2	JYJ	Ryukyu Islands,Japan	24.4502N	122.9437E	22	
Yonagunijimakubura	JYNG	Ryukyu Islands,Japan	24.4512N	122.9452E	15	From 2010-02-01
Yonezawaarcadia	JYAR	Yamagata,Japan	37.9127N	140.1437E	245	From 2012-07-01
Yonkie	YYYY	Papua New Guinea	6.2412S	145.9690E	1314	From 1988-06-02
Yopal, Colombia	YOPC	Colombia	5.3540N	72.4207W	933	From 2009-02-01
Yorkshire	YSNY	New York,U.S.A.	42.4758N	78.5375W	628	From 1993-08-18 to 2002-12-20
Yoronjima	JYRO	Kagoshima,Japan	27.0247N	128.4505E	26	From 2012-07-01
Yoruktepe-Mersin	YORU	Turkey	36.1538N	33.4054E	426	From 2011-07-01
Yosemite Lake	MYLM	California,U.S.A.	37.3835N	120.4205W	57	
Yoshimatsu	YSM	Kagoshima,Japan	32.0267N	130.7361E	215	
Yoshimatsu	YOSD	Kagoshima,Japan	32.0006N	130.7278E	315	
Yoshiwara	YOS	Shizuoka,Japan	35.1667N	138.6830E		
Yoshizawa	JYZW	Shizuoka,Japan	34.9960N	137.7337E	93	
Yotoco, Valle del Cauca	YOTC	Colombia	3.9835N	76.3450W	1040	From 2011-12-13
Youbou, Lake Cowichan	YOUB	British Columbia,Canada	48.9010N	124.2618W	771	
Young	YNG	New South Wales,Australia	34.2980S	148.3963E	460	From 1999-01-01
Young	YOU	New South Wales,Australia	34.2783S	148.3817E	503	From 1974-07-01 to 1998-08-17
YOUNGJONGDO	YJD	Republic of Korea	37.4668N	126.4335E	34	From 2001-11-07
Youngstown State University	YSUO	Ohio,U.S.A.	41.1041N	80.6481W	274	
Youssef Ben Tachfine	YBT	Morocco	29.8456N	9.4983W	69	
Yozgat	YOZ	Turkey	39.6400N	35.3200E	1422	
Yozgat	SIRC	Turkey	39.3363N	35.1481E	1241	From 2013-02-01
Yozgat/˜ekerek-Merkez	CKRK	Turkey	40.0732N	35.4998E	991	From 2014-11-28
Yr Eifl	YRE	Wales,United Kingdom	52.9810N	4.4254W	197	From 1984-01-01
Yreka	YR-	California,U.S.A.	41.6353N	122.7539W	914	From 1965-10-25 to 1967-10-06
Yreka	YR-CL	California,U.S.A.	41.6353N	122.7539W	914	From 1965-10-25 to 1967-10-06
Yreka Blue Horn Mine, Yreka	YBH	California,U.S.A.	41.7320N	122.7104W	1059	From 1993-07-24
Yuanli	PTSB	Taiwan region	24.4469N	120.7048E	202	From 2006-01-04
Yuanlin Township	WYL	Taiwan region	23.9610N	120.5800E	25	
Yuanshan	SLBB	Taiwan region	24.7538N	121.6356E	490	From 2002-12-02
Yuasa	YAS	Wakayama,Japan	34.0328N	135.1822E	10	
Yuba Gap, Truckee	P05C	California,U.S.A.	39.3028N	120.6077W	1756	From 2005-06-07 to 2007-10-13
Yubileniya	YUB	Sakha,Russia	70.7380N	136.0930E	10	
Yucca	X13A	Arizona,U.S.A.	34.5935N	113.8302W	889	From 2006-03-14 to 2008-10-18
Yucca Flat NTS	YF4NV	Nevada,U.S.A.	37.0747N	116.0367W	1244	
Yucca Flat NTS	YF2NV	Nevada,U.S.A.	37.0694N	116.0122W	1260	
Yucca Flat NTS	YF3NV	Nevada,U.S.A.	37.0728N	116.0242W	1254	
Yucca Flat NTS	YF-NV	Nevada,U.S.A.	37.0683N	116.0019W	1271	
Yucca Mountain	YMT1	Nevada,U.S.A.	36.8539N	116.5300W	1002	
Yucca Mountain	YMT6	Nevada,U.S.A.	36.8557N	116.4000W	1149	From 1981-04-01 to 2002-10-10
Yucca Mountain	YMT5	Nevada,U.S.A.	36.8987N	116.4534W	1381	From 1981-04-01 to 2002-10-10

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Yucca Mountain	YMT4	Nevada,U.S.A.	36.8487N	116.4503W	1283	From 1981-04-01 to 2002-10-10
Yucca Mountain	YMT3	Nevada,U.S.A.	36.7860N	116.4130W	1088	
Yucca Mountain	YMT2	Nevada,U.S.A.	36.7853N	116.4866W	1079	From 1981-03-05 to 2002-12-10
Yucca Mountain	YM-NV	Nevada,U.S.A.	36.9314N	116.5542W	1341	
Yuchr	TYC	Taiwan region	23.9040N	120.8570E	20	
Yuen Ng Fan	YHK	Hong Kong,China	22.3777N	114.3378E	87	
Yuha Desert	YUH	California,U.S.A.	32.6477N	115.9230W	186	
Yuktali	YKLR	Sakha,Russia	56.5915N	121.6542E	417	From 2004-07-04
Yulee	457A	Florida,U.S.A.	30.6199N	81.5563W	16	From 2012-02-03
Yuli	TWF	Taiwan region	23.3492N	121.2960E	180	From 1974-01-30
Yuli	TWF1	Taiwan region	23.3522N	121.2970E	260	From 1977-08-26
Yu-li	YULB	Taiwan region	23.3924N	121.2973E	295	
Yuma	112A	Arizona,U.S.A.	32.5356N	114.5804W	87	From 2007-05-06 to 2008-10-22
Yuma Desert	YMD	Arizona,U.S.A.	32.5547N	114.5450W	76	
Yuma Proving Gounds (US Army), Dateland	Z13A	Arizona,U.S.A.	33.1999N	113.6568W	375	From 2008-02-07 to 2009-01-30
Yumen	YUM	Gansu,China	40.2967N	97.0150E		
Yumesaki	YST	Hyogo,Japan	35.0008N	134.6285E	220	
Yumurtalik	YUMT	Turkey	36.7710N	35.7880E	27	From 1994-03-01
Yung-k'ang	TAI1	Taiwan region	23.0400N	120.2280E	-190	
Yunotani	YNT	Niigata,Japan	37.2233N	139.0145E	170	
YUNZ	YUNZ	Bolivia	19.1581S	65.0700W	2896	From 1994-05-30 to 1995-05-22
Yupe	YPE	El Salvador	14.1217N	89.6806W	1581	
Yupiltepeque	YUP	Guatemala	14.2013N	89.8015W	1430	From 1980-08-01
YUREGIR	YURE	Turkey	36.8259N	35.6324E	491	From 2006-12-01
Yu-Shan	YUS	Taiwan region	23.4893N	120.9520E	3845	
Yuva-Kibriscik (Bolu)	YUVA	Turkey	40.3910N	31.6872E	1163	From 2013-09-09
Yuwa	JYW	Akita,Japan	39.5403N	140.2085E	30	
Yuzawa	YZU	Niigata,Japan	36.8952N	138.7813E	600	
Yuzh-Kuril'sk	YUK	Sakhalinskaya Oblast',Russia	44.0347N	145.8614E	28	
Yuzh-Sakhalinsk	YSS	Sakhalinskaya Oblast',Russia	46.9539N	142.7550E	98	
Yverdon-Jordils	SYVJ	Switzerland	46.7771N	6.6375E	434	From 1992-06-05
Yverdon-les-Bains, rue des Philosophes	SYVP	Switzerland	46.7747N	6.6417E	434	From 2011-05-01
Zabid	ZBID	Yemen	14.1958N	43.3167E	0	
Zabrze	ZAB	Poland	50.3014N	18.7944E	258	
Zacaltic	ZAC	Chiapas,Mexico	17.2500N	92.7610W	380	
Zacatecas	ZAIG	Zacatecas,Mexico	22.7690N	102.5670W	2408	
Zafarana	ZAF	Egypt	29.2819N	32.5487E	165	
Zafferana	ZA1	Sicily,Italy	37.6853N	15.0900E	875	
Zaghouan	ZGN	Tunisia	36.3700N	10.1000E	720	
Zagorskoe	ZGR4	Sakhalinskaya Oblast',Russia	47.3029N	142.4930E	120	From 2001-01-01
Zagreb	ZAG	Croatia	45.8270N	15.9870E	188	From 1983-01-01
Zagreb	ZAG*	Croatia	45.8167N	15.9833E	155	From 1906-04-04 to 1983-12-31
Zahaedan-tmp	SZD1	Iran	29.4863N	60.8655E	1383	From 2012-10-16
Zahedan	ZHSF	Iran	29.6110N	60.7750E	1575	From 1999-10-10
Zahran al Janub	DJNS	Saudi Arabia	17.7014N	43.5449E	2250	
Zaio	ZAI	Morocco	34.9700N	2.7460W	750	
Zaisan	ZSN	Kazakhstan	47.4500N	84.8660E	550	From 1990-10-01
Zajecar	ZAGS	Serbia	43.8126N	22.2328E	205	From 2011-07-15
Zakamensk	ZAK	Buryatiya,Russia	50.3819N	103.2806E	1200	
Zakatala	ZKTA	Azerbaijan	41.6380N	46.6220E	497	From 2009-10-26
Zakros	ZKR	Crete,Greece	35.1147N	26.2170E	270	
Zakynthos	ZKS	Greece	37.6969N	20.7853E	371	From 2010-05-11
Zakynthos	ZAK2	Greece	37.7879N	20.9000E	2	From 2012-09-01
Zalesovo	ZAL	Altayskiy Kray,Russia	53.9367N	84.7981E	213	
Zalesovo Array Site A0	ZAA0	Altayskiy Kray,Russia	53.9481N	84.8188E	229	
Zalesovo Array Site A1	ZAA1	Altayskiy Kray,Russia	53.9524N	84.8190E	246	
Zalesovo Array Site A2	ZAA2	Altayskiy Kray,Russia	53.9439N	84.8237E	207	
Zalesovo Array Site A3	ZAA3	Altayskiy Kray,Russia	53.9477N	84.8091E	242	
Zalesovo Array Site B1	ZAB1	Altayskiy Kray,Russia	53.9637N	84.8308E	245	
Zalesovo Array Site B2	ZAB2	Altayskiy Kray,Russia	53.9488N	84.8462E	253	
Zalesovo Array Site B3	ZAB3	Altayskiy Kray,Russia	53.9368N	84.8342E	234	
Zalesovo Array Site B4	ZAB4	Altayskiy Kray,Russia	53.9377N	84.7985E	199	
Zalesovo Array Site B5	ZAB5	Altayskiy Kray,Russia	53.9566N	84.7972E	195	
Zalesovo Beam	ZALV	Altayskiy Kray,Russia	53.9481N	84.8188E	229	
ZALESOVO INFRASONIC ARRAY REFERENCE POINT	ZALR	Altayskiy Kray,Russia	53.9487N	84.8189E	232	From 2006-11-30
Zalf	ZALF	Syria	32.9221N	37.3342E	532	From 1994-12-01
Zalla	LZLA	Libya	28.5537N	17.5613E	239	
Zamaca	PT04	Peru	14.6717S	75.6150W	400	
Zamans	EZAM	Spain	42.1490N	8.6950W	398	From 1986-12-01
Zamboanga	ZMP	Mindanao,Philippines	6.9196N	122.0633E	0	From 1982-09-23 to 1997-01-01
Zamboanga City	ZMPH	Mindanao,Philippines	6.9540N	122.0640E	59	
Zamboanga City	ZCP	Philippines	6.9322N	122.0746E	15	From 2010-09-01
Zamora	NE28	Spain	41.4140N	5.7550W	720	
Zangian	ZNGN	Iran	32.1174N	50.8542E	2662	From 2011-01-01
Zanguenga, Chorrera	ZANG	Panama	8.9561N	79.8667W	110	From 2004-10-01
Zanja@18n	ZNJK	Iran,Iran	36.6700N	48.6850E	2200	
Zanoah	ZNH	Israel	31.6770N	35.0000E	440	
Zante	ZAN	Greece	37.6500N	20.6667E	4	
Zapallar	ZACH	Valparaiso,Chile	32.5533S	71.4583W	44	
Zapla	AZAP	Jujuy,Argentina	24.2242S	65.0662W	2070	
Zaqatala	ZKT	Azerbaijan	41.6540N	46.6670E	530	From 1979-01-01
Zaragoza, Cauca	ZARC	Colombia	7.4923N	74.8580W	205	From 2011-08-17
Zarasai	IZAR	Lithuania	55.7497N	26.2458E	154	
Zara_SIVAS	CUZAR	Turkey	39.8882N	37.7705E	1425	From 2010-09-14
Zardab	ZRD	Azerbaijan	40.2790N	47.6840E	30	From 2010-12-02
Zarechye	ZRHB	Buryatiya,Russia	52.5540N	107.1520E	480	From 1999-12-01
Zaryechye, Baikal	ZRH	Buryatiya,Russia	52.5452N	107.1592E	481	From 2000-01-01
Zatriq	ZATK	Kosovo	42.4484N	20.6229E	1060	From 2008-07-06
Zavalia	ZAV	Texas,U.S.A.	31.1192N	94.5453W		
Zavodnje	ZAVS	Slovenia	46.4342N	15.0246E	741	From 2005-08-11
Zavoj	ZAPS	Serbia	43.2737N	22.6336E	624	From 2004-10-22
Zeckenberg-Ebnath	MZEK	Bayern,Germany	49.9626N	11.9474E	627	From 2001-04-24
ZEC Mazanza, Mont-Saint-Michel	D56A	Quebec,Canada	47.0485N	74.7568W	421	From 2013-07-29
Zefat	SAF	Israel	32.9600N	35.4950E	800	
Zefreh	IZEF	Iran	32.8956N	52.3291E	2320	From 2000-09-01
ZEK Kipawa Senerzegues Township	D52A	Quebec,Canada	46.9764N	78.4117W	359	From 2012-10-31
Zelena Hora	ZHC	Czech Republic	50.0706N	12.3087E	631	From 1996-01-10
Zelenaya	ZLN	Kamchatskaya Oblast',Russia	56.0169N	160.8039E	1120	
Zelenogorsk	ZLNR	Krasnoyarskiy Kray,Russia	56.1190N	94.5175E	250	From 2005-04-27
Zemlya Franca-locifa	ZFI	Arkhangel'skaya Oblast',Russia	80.8070N	47.6590E	17	From 2011-09-22
Zemlya Franca-locifa2	ZFI2	Arkhangel'skaya Oblast',Russia	80.8090N	47.6550E	18	From 2011-09-22
Zenema	ZNM	Egypt	29.3761N	32.8752E	210	
Zephyrhills	857A	Florida,U.S.A.	28.2670N	82.2291W	50	From 2012-02-17
Zerenda	ZRNK	Kazakhstan	52.9508N	69.0042E	384	From 1994-07-22
Zerenda array site	ZRN7	Kazakhstan	52.9294N	68.9772E	388	From 1995-08-12
Zerenda array site	ZRN8	Kazakhstan	52.9546N	68.9633E	364	From 1995-08-12
Zerenda array site	ZRN4	Kazakhstan	52.9704N	69.0323E	382	From 1995-08-12
Zerenda array site	ZRN5	Kazakhstan	52.9461N	69.0485E	407	From 1995-08-12
Zerenda array site	ZRN6	Kazakhstan	52.9271N	69.0337E	405	From 1995-08-12
Zerenda array site	ZRN9	Kazakhstan	52.9771N	69.0027E	368	From 1995-08-12
Zereshkeh	BZRK	Iran	33.8569N	48.6922E	1807	From 2013-09-09
Zerhoun	ZER	Morocco	34.0190N	5.4700W	1118	
Zernez	SZER	Switzerland	46.6975N	10.0977E	1471	From 2006-08-16
Zevekote	BZEV	Belgium	51.1370N	2.8995E	2	From 1992-04-12
Zeya	ZEA	Amurskaya Oblast',Russia	53.7380N	127.2500E	273	
Zeytinkoy-Aydin	AYDB	Turkey	37.9466N	27.8908E	1246	From 2009-10-03
Zfri	ZFRI	Israel	30.5540N	35.1780E	-37	
Zhanghua	WCHH	Taiwan region	24.0795N	120.5583E	34	From 2011-01-05
Zheleznogorsk	GZLN	Krasnoyarskiy Kray,Russia	56.3800N	93.7700E	210	From 2012-12-18
Zheleznogorsk-3, Russia	SHTK	Krasnoyarskiy Kray,Russia	56.3330N	93.6050E	150	From 2012-12-21
Zheleznogorsk city	GZL	Krasnoyarskiy Kray,Russia	56.2650N	93.5420E	165	From 2005-11-08
Zhinishke	ZHN	Kazakhstan	43.1680N	78.4350E	1332	From 2004-06-09
Zhob	ZHOB	Pakistan	31.3300N	69.4100E	1417	From 2006-04-02
Zhongli	NCUH	Taiwan region	24.9679N	121.1849E	153	From 2011-01-05
Zhushan	WJS	Taiwan region	23.8219N	120.7279E	175	From 2009-10-07
Ziano	ZIAN	Italy	46.2764N	11.5632E	1154	From 2012-11-19
Zihlschlacht	SGT02	Switzerland	47.5133N	9.2479E	577	From 2012-01-15
Zihuatanejo	ZIH	Guerrero,Mexico	17.6100N	101.4620W	5	
Zihuatanejo	ZHGX	Guerrero,Mexico	17.6083N	101.4650W		

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
Zihuatanejo	ZIIG	Guerrero,Mexico	17.6067N	101.4650W	32	
Zimchurud	ZIM	Tajikistan	38.7667N	68.8000E		
Zimniki	ZMN	Primorskiy Kray,Russia	45.4750N	134.2580E	150	From 1988-07-01
Zion National Park	ZNPU	Utah,U.S.A.	37.3561N	113.1254W	1953	From 2009-10-22
Ziria, Aigialia, West Greece	ZIRI	Greece	38.3052N	21.9476E	505	From 2010-07-04
Zirje	ZIRJ	Croatia	43.6543N	15.6439E	107	
ZIRO	ZIRO	Arunachal Pradesh,India	27.5266N	93.8499E	1600	From 2011-05-01
Zishin	ZIS	Guatemala	14.0333N	90.4550W	50	From 1979-09-01
Zocca	ZCCA	Italy	44.3509N	10.9765E	700	
Zomba	ZOMB	Malawi	15.3833S	35.3500E	1013	From 2006-06-01
Zonda	ZON	San Juan,Argentina	31.5458S	68.6786W	730	
Zongo (La Paz)	ZOBO	Bolivia	16.2694S	68.1240W	4397	
Zongo (La Paz)	ZLP	Bolivia	16.2694S	68.1240W	4397	
Zonguldak	ZGT	Turkey	41.4508N	31.7611E	70	From 1980-01-01 to 1981-06-30
Zonguldak/Devrek-Atalar	DEVR	Turkey	41.1417N	31.9724E	388	From 2014-12-01
Zoufplan	ZOU	Italy	46.5567N	12.9733E	1896	From 1982-10-17
Zovencedo	ZOVE	Italy	45.4536N	11.4876E	376	From 2011-09-07
Zuerich Laegern	ZLA	Switzerland	47.4822N	8.3892E	780	
Zugar Island	ZUQR	Yemen	13.9848N	42.7508E	171	From 2007-11-24
Zugdidi	ZUG	Georgia,Georgia	42.5167N	41.8833E	110	
Zuidlaarderveen	ZLV3	Netherlands	53.0921N	6.7533E	-148	From 2010-05-18
Zuidlaarderveen	ZLV2	Netherlands	53.0921N	6.7533E	-98	From 2010-05-18
Zuidlaarderveen	ZLV1	Netherlands	53.0921N	6.7533E	-48	From 2010-05-18
Zuidlaarderveen	ZLV4	Netherlands	53.0921N	6.7533E	-198	From 2010-05-18
Zuidlaarderveen	ZLV	Netherlands	53.0931N	6.7500E	1	
Zuidlaarderveen (2)	ZL22	Netherlands	53.0921N	6.7533E	-16	From 2009-04-10
Zuidlaarderveen (2)	ZL24	Netherlands	53.0921N	6.7533E	-116	From 2009-04-10
Zuidlaarderveen (2)	ZL23	Netherlands	53.0921N	6.7533E	-66	From 2009-04-10
Zuidlaarderveen (2)	ZL21	Netherlands	53.0921N	6.7533E	34	From 2009-04-10
Zumba	ZUMB	Ecuador	4.8637S	79.1439W	1286	From 2012-11-08
ZUMPANGO	ZUVM	Mexico	19.8265N	99.0775W	2288	From 2009-06-04
Zunzarren	IZUN	Spain	42.8610N	1.4564W	701	From 2007-03-01
Zuqar Island	ZQRN	Yemen	14.0478N	42.7257E	38	From 2007-12-18
Zurich-Lageren	ZUL	Switzerland	47.4813N	8.3903E	700	From 1975-01-01 to 1986-07-09
Z¨…rich, Zeughauswiese	SZUZ	Switzerland	47.3775N	8.5302E	408	From 2012-12-19
Zur Nathan	ZNT	Israel	32.2400N	35.0280E	234	
Zu Zu	ZZT	Tennessee,U.S.A.	35.3640N	89.3720W	120	From 1974-03-01 to 1975-09-30
Zweins	ZWE3	Netherlands	53.1885N	5.6045E	-90	From 2010-03-24
Zweins	ZWE4	Netherlands	53.1885N	5.6045E	-120	From 2010-03-24
Zweins	ZWE2	Netherlands	53.1885N	5.6045E	-60	From 2010-03-24
Zweins	ZWE1	Netherlands	53.1885N	5.6045E	-30	From 2010-03-24
Zyfflich	NE41	Nordrhein-Westfalen,Germany	51.8239N	5.9745E	13	
Zyryanka	ZYR	Sakha,Russia	65.7200N	149.8200E	120	From 1981-10-01 to 1991-12-15
	QEN	Egypt	26.2237N	32.8496E	333	
	SWA2	Egypt	29.2432N	25.4556E	45	
	ORGA	Alberta,Canada	49.5539N	114.1008W	1257	
	CGIG	Mexico D.F.,Mexico	30.3652N	107.9773W	1524	
	MBSS	Montserrat	16.6870N	62.1603W	395	
	ASUT	Egypt	27.3967N	31.5626E	240	
	MRYT	Montserrat	16.7038N	62.1532W	355	
	UB1M	Mongolia	47.9230N	106.5870E	1376	From 2009-05-01
	VARR	Romania	45.8802N	27.8570E	233	
	HPIG	Mexico D.F.,Mexico	26.9352N	105.6655W	1786	
	NISS	Serbia	43.4035N	21.9474E	782	From 2006-04-05 to 2008-07-23
	UB8M	Mongolia	47.5700N	106.3120E	1331	From 2009-05-01
	AMRG	Georgia,Georgia	42.5156N	43.1369E	614	
	ASYS	Saudi Arabia,Saudi Arabia	27.5046N	44.3412E	580	
	ZAPC	Czech Republic	49.8320N	18.4280E		
	MO5M	Mongolia	47.6100N	105.8680E	1259	From 2008-12-01 to 2009-06-01
	NE25	Spain	40.8206N	0.4933E		
	SLWS	Saudi Arabia,Saudi Arabia	24.7978N	50.6437E	75	
	EGS	Taiwan region	24.8450N	121.9320E	2	
	UB5M	Mongolia	47.8190N	106.7820E	1389	From 2009-06-01
	IM03	Alaska,U.S.A.	65.9835N	153.7491W		
	MO8M	Mongolia	47.5700N	106.3120E	1331	From 2008-12-01 to 2009-06-01
	SIRB	Romania	45.4801N	26.2616E	512	
	SWA1	Egypt	29.2632N	25.7098E	48	
	MDUM	Montserrat	16.7000N	62.1667W	1000	
	UB6M	Mongolia	48.3150N	106.8140E	1233	From 2009-03-01
	ECALA	Colombia	1.2138N	77.4226W	2353	
	CHI2	Colombia	4.6439N	73.7400W	3100	
	DARB	Saudi Arabia	17.7400N	42.2400E	0	
	ALFM	Mongolia	47.9900N	106.7800E	1560	From 1995-09-01
	NLNM	California,U.S.A.	38.1525N	122.7125W		
	SEMM	Mongolia	47.5600N	106.9800E	1700	From 1994-10-01
	JYSA	Finland	62.7700N	24.8700E		
	R15V	Colima,Mexico	19.1700N	103.9830W	632	
	MZVM	Mexico D.F.,Mexico	19.1892N	99.2293W		
	MO7M	Mongolia	47.4380N	106.6030E	1543	From 2008-12-01 to 2009-05-01
	TPTI	Sumatera,Indonesia	3.2600N	97.1800E	9	
	ARTM	Mongolia	47.9300N	107.2700E	2008	From 1994-10-01
	KLSI	Sumatera,Indonesia	4.6900S	104.7300E	81	
	HADB	Egypt	25.3510N	34.6238E	187	
	GHRR	Romania	46.0605N	27.4080E	212	
	GDLC	Jalisco,Mexico	20.6827N	103.3775W	1577	
	CHOC	Czech Republic	49.7690N	18.5610E		
	FDAS	Saudi Arabia,Saudi Arabia	21.8336N	40.3588E	200	
	QRHJ	Jordan	29.6850N	35.3220E	810	
	SHMS	Saudi Arabia,Saudi Arabia	21.4485N	39.6907E	252	
	LBOS	Yemen	13.8710N	45.2490E	2325	
	RSHS	Saudi Arabia,Saudi Arabia	28.2997N	34.7968E	280	
	AL35	Alaska,U.S.A.	64.9447N	147.8595W		
	HRDDS	Saudi Arabia,Saudi Arabia	22.9272N	49.4616E	150	
	NE20	Spain	36.8525N	2.4598W		
	UB7M	Mongolia	47.5330N	106.6110E	1474	From 2010-04-01
	NE22	Spain	36.7275N	4.4111W		
	HQSR	Egypt	25.7554N	34.3871E	168	
	NE23	Spain	41.4164N	2.1250E		
	H06S	Colima,Mexico	18.7300N	110.9600W	10	
	NT-	Nevada,U.S.A.	37.2758N	116.4183W		
	MGDM	Mongolia	48.2800N	102.9400E		
	IL01	Alaska,U.S.A.	64.7716N	146.8861W		
	UB0M	Mongolia	47.9600N	105.9360E	1360	From 2010-05-01 to 2012-07-01
	NE24	Spain	38.3553N	0.4873W		
	UB9M	Mongolia	47.8670N	106.7370E	1250	From 2009-06-01 to 2010-03-01
	NT2	Nevada,U.S.A.	37.2533N	116.2858W		
	H06E	Colima,Mexico	18.7800N	110.9200W	10	
	HADR	Romania	47.0106N	27.4301E	435	
	DZBM	Mongolia	43.8140N	104.5010E	1557	From 2010-01-01
	SECR	Romania	45.0355N	26.0676E	417	
	SHBS	Saudi Arabia,Saudi Arabia	21.0046N	39.6829E	182	
	EMPA	Peru	6.6630S	79.4430W	500	
	LYLS	Saudi Arabia,Saudi Arabia	22.0384N	47.2447E	460	
	HLS	Peru	8.8470S	77.8890W		
	HSIG	Mexico D.F.,Mexico	29.0196N	110.9490W	250	
	MBRV	Montserrat	16.8113N	62.1961W	231	
	UB2M	Mongolia	48.0190N	106.4430E	1455	From 2009-08-01
	PCIG	Chiapas,Mexico	15.7047N	93.2188W	5	
	IVGM	Mongolia	47.4000N	106.5700E	1900	From 1994-10-01
	WMD	California,U.S.A.	37.4400N	118.6400W	0	
	FG6	Guatemala	14.5600N	90.8828W	2500	
	MBGA	Montserrat	16.7102N	62.1887W	479	
	YOBS	Saudi Arabia,Saudi Arabia	24.3578N	38.7424E	372	
	MBWH	Montserrat	16.7422N	62.1908W	407	
	HUEN	Managua,Nicaragua	12.3375N	86.1722W	50	
	URCR	Colombia	1.2195N	77.3432W	3494	
	BAR1	Costa Rica,Costa Rica	9.2422N	83.3117W	530	
	MGAT	Montserrat	16.7102N	62.1887W	479	
	NUB	Egypt	29.0276N	34.6474E	90	

Station Name	Code	Location	Geographical Co-ordinates		Altitude m	Remark
	CR2G	Colombia	1.2077N	77.3590W	4058	
	UPIG	Panama	8.9906N	79.5342W	41	
	MCPZ	Montserrat	16.7068N	62.1812W	759	
	TBS2	Panama	8.7933N	82.6569W	1397	
	BIAC	Colombia	3.2913N	76.1973W		
	WJHS	Saudi Arabia,Saudi Arabia	26.7318N	36.3944E	195	
	MUMZ	El Salvador	13.5555N	88.4792W	410	
	BTHS	Saudi Arabia,Saudi Arabia	24.0459N	50.8460E	89	
	LOEW	Colombia	1.3537N	77.3780W	2350	
	BOQSS	Saudi Arabia,Saudi Arabia	25.8689N	49.3758E	210	
	PLAZ	Colombia	1.2593N	77.2790W	3000	
	JLOS	Saudi Arabia,Saudi Arabia	28.7351N	35.4916E	1320	
	ACVZ	Colombia	1.2270N	77.3588W	1470	
	UNTM	Mongolia	49.1400N	102.9200E		
	OZUR	Romania	46.0957N	25.7864E	674	
	KFJS	Saudi Arabia,Saudi Arabia	28.1866N	47.9416E	150	
	GALR	Romania	43.8275N	28.5751E	56	
	CSAN	Managua,Nicaragua	12.1833N	86.4222W	50	
	KMST	Turkey	37.5239N	36.9936E	670	
	STKZ	Armenia	39.8126N	46.7520E	770	
	CMPA	Pennsylvania,U.S.A.	40.3500N	76.0100W		
	UB4M	Mongolia	47.8150N	106.6080E	1209	From 2008-12-01
	NSPM	California,U.S.A.	38.1827N	122.4533W		
	UGDM	Mongolia	47.6400N	107.4000E	1894	From 1994-10-01
	PKSG	Hungary	47.3918N	18.3907E	200	
	UB3M	Mongolia	47.6930N	105.9410E	1311	From 2009-07-01
	JPSM	California,U.S.A.	37.1990N	122.3483W		
	EZ5V	Colima,Mexico	19.4792N	103.6022W	2180	
	HCA	Peru	5.5830S	79.4330W		
	HQLS	Saudi Arabia,Saudi Arabia	29.3003N	35.0622E	543	
	PUYI	Colombia	1.2977N	77.3230W	2370	
	FPK	Nevada,U.S.A.	39.2200N	118.1500W	0	
	EPCH	Peru	6.0090S	79.6850W	720	
	MBGE	Montserrat	16.6900N	62.1937W	183	
	HQRM	California,U.S.A.	36.8337N	121.2127W		
	MBGB	Montserrat	16.7323N	62.2278W	253	
	HCAT	Egypt	28.7750N	33.9790E	410	
	ZIMR	Romania	43.6572N	25.3652E	74	
	XTAL	Ecuador	0.2020S	78.6688W	2040	
	GLFJ	Jordan,Jordan	29.5080N	35.0080E	25	
	LUTC	Czech Republic	49.8840N	18.4160E		
	FULR	Romania	44.8877N	26.4419E	114	
	RSH	Egypt	30.9600N	33.7220E	240	
	LUK	Luzon,Philippines	14.1200N	121.5170E	500	
	SULR	Romania	44.6785N	26.2551E	73	
	DWK	Meghalaya,India	25.1867N	92.0227E		
	COB3	Colombia	1.1890N	77.3473W	3625	
	SANZ	El Salvador	13.5577N	88.5228W	310	
	TUDR	Romania	45.5939N	27.6687E	66	
	NFRM	California,U.S.A.	38.5227N	123.1610W		
	AWBH	Egypt	28.3208N	28.9038E	185	
	HSFG	Egypt	26.5675N	33.9292E	170	
	OLGA	Colombia	1.2243N	77.3537W	4100	
	AL34	Alaska,U.S.A.	64.9100N	147.4464W		
	THIG	Chiapas,Mexico	14.9077N	92.2652W	15	
	BC3*	Alaska,U.S.A.	63.0656N	141.7851W		
	TGIG	Chiapas,Mexico	16.7782N	93.1222W	612	
	NSP	Nevada,U.S.A.	36.7300N	116.2100W	0	
	DRGR	Romania	46.7916N	22.7111E	921	
	ANTT	Turkey	36.2203N	36.1569E	60	
	NE33	Belgium	50.6092N	6.0066E		
	NGVM	California,U.S.A.	38.2807N	122.2148W		
	IL31	Alaska,U.S.A.	64.7714N	146.8866W		
	JORD	New York,U.S.A.	44.3400N	74.6100W		
	DIC	Ivory Coast	6.2083N	4.9892W		
	KARJ	Jordan	31.1200N	35.6530E	124	
	NAR2	Colombia	1.2688N	77.3687W	2870	
	MBBY	Montserrat	16.6977N	62.2025W	160	
	NMCM	California,U.S.A.	35.8428N	117.9048W		
	LUCR	Romania	44.9737N	27.1011E	91	
	LTRR	Romania	45.4284N	23.7584E	1418	
	BC03	Alaska,U.S.A.	63.0656N	141.7851W		
	ANVZ	Colombia	1.2220N	77.3530W	4170	
	TLCR	Romania	45.1861N	28.8150E	73	
	MBRY	Montserrat	16.7038N	62.1532W	355	
	VOIR	Romania	45.4371N	25.0496E	969	
	BMK*	Morocco	34.6590N	2.9340W		
	MBLG	Montserrat	16.7250N	62.1623W	287	
	NE19	Spain	42.4578N	2.5032W		
	PRSC	Czech Republic	49.0150N	18.5540E	0	
	GRER	Romania	45.3801N	26.9746E	276	
	WHR	Nevada,U.S.A.	40.0400N	118.3600W	0	
	GOLR	Romania	44.8399N	24.9629E	301	
	MBMH	Montserrat	16.7763N	62.1925W	270	
	NE21	Portugal	40.3997N	7.5442W	815	
	ETYK	Hungary	47.4403N	18.7448E	248	
	JSGM	California,U.S.A.	37.2827N	122.0500W		

SEISMOLOGICAL OBSERVATORIES

IN ALPHABETICAL ORDER OF STATION CODE

Code	*Station Name*	*Other*
034A	Hebbronville	
035A	Encino	
035Z	Hargill	
058A	Arcadia	
059A	Moore Haven	
059Z	Ave Maria	
060A	Indiantown	
060Z	West Palm Beach	
061Z	Ochoppi	
062Z	Marathon	
109C	Camp Elliot, Miramar	
112A	Yuma	
113A	Mohawk Valley, Roll	
114A	Black Gap (USAF), Gila Bend	
115A	Sonoran Desert, Stanfield	
116A	Eloy	
117A	Oracle	
118A	Homack Ranch, Wilcox	
119A	Ashpeak Ranch, Duncan	
120A	U Bar Ranch, Lordsburg	
121A	Cookes Peak, Deming	
122A	Conniff Cattle Co., Rinco	
123A	Bell Site, White Sands Missile Range	
124A	Stringfield Ranch, Weed	
125A	Gardner Draw, Artesia	
126A	Clayton Basin, Artesia	
127A	Arkansas Junction, Hobbs	
128A	Castleberry Farm, Seminole	
129A	Stewart Farms, Lamesa	
130A	Snyder	
131A	Roby	
133A	Hamilton Ranch, Breckenridge	
134A	White-Moore Ranch, Lipan	
135A	Vickery Place, Crowley	
136A	Ennis	
137A	Heron Place, Grans Saline	
138A	Matatall Enterprise, Big Sandy	
139A	Bunkhouse Ranch, Marshall	
140A	Cam and Jess, Hughton	
141A	Papa Simpson, Farm, Arcadia	
142A	Monroe	
143A	Socs Landing, Pioneer	
144A	Alexander Place, Bentonia	
145A	Houston Renfrow, Canton	
146A	Union	
147A	Livingston	
148A	Greensboro	
149A	Jones	
150A	Eclectic	
151A	Opelika	
152A	Waverly Hall	
153A	Fort Valley	
154A	Montrose	
155A	Kite	
156A	Sylvania	
157A	Early Branch	
158A	Hollywood	
214A	Organ Pipe National Monument, Ajo	
216A	Three Points, Tucson	
217A	Green Valley	
218A	Dragoon	
219A	White Tail Canyon, San Simon	
220A	Playas Peak, Playas	
221A	Mesquite Ranch, Deming	
222A	Williams Family Ranch, Las Cruces	
223A	Chaparral, Anthony	
224A	Cornudas Mountain, Dell City	
225A	Deer Hill, Carlsbad	
226A	Malaga, Loving	
226B	Tecolote Peak, Malaga	
227A	Bennet, Jal	
228A	UT Block 9, Goldsmith	
229A	Bryant Ranch, Stanton	
230A	Sterling City	
231A	Bronte	
232A	Coleman	
233A	Rising Star	
234A	Clairette	
236A	Katherine and Luke Keathley, Corsicana	
237A	Washetta, Montalba	
238A	Jacksonville	
239A	Gary	
240A	Hunter Patterson, Mansfield	
241A	Mo Tay, Goldonna	
242A	Grayson	
243A	Waterproof	
244A	Avery, Jackson	
245A	Little AP, Star	
246A	Jackson Lee, Bay Springs	
247A	Quitman	
248A	Dixon Mills	
249A	Camden	
250A	Grady	
251A	Midway	
252A	Lumpkin	
253A	Americus	
254A	Abbeville	
255A	Hazlehurst	
256A	Glennville	
257A	Skidaway Island, Savannah	
2RIO	Dos Rios de Upala	
318A	Bisbee	
319A	Douglas	
320A	Kipp Ranch, Antelope Well	
324A	Moseley Ranch, Sierra Blanca	
325A	Bean Ranch, Sierra Blanca	
326A	Caldwell Ranch, Toyah	
327A	Balmorhea Ranch, Pecos	
328A	Wristen Ranch, Grandfalls	
329A	Wagon Wheel Ranch, Midkiff	
330A	Mertzon	
331A	San Angelo	
332A	Millersview	
333A	Richland Springs	
334A	Lometa	
335A	Moody	
336A	Riesel	
337A	Centerville	
338A	Crockett	
339A	Huntington	
340A	Bronson	
341A	Kurthwood	
342A	Flagon Creek Properties, Pineville	
343A	Vidalia	
344A	Westbrook Farm, Meadville	
345A	Thompson Farm, Foxworth	
346A	Big Creek Wildlife, Hattiesburg	
347A	Saraland	
348A	Jackson	
349A	Repton	
350A	Dozier	
351A	Pinckard	
352A	Blakely	
353A	Camilla	
355A	Pearson	
356A	Blackshear	
357A	Townsend	
425A	Indio Mountain, Van Horn	
426A	McDonald Observatory, Fort Davis	
427A	Hayter Ranch, Fort Stockton	
428A	Kincaid Ranch, Fort Stockton	
429A	Davenport Ranch, Sheffield	
430A	Baggett Ranch, Ozona	
431A	Sonora	
432A	Menard	
433A	Art	
434A	Burnet	
435A	Jarrell	
435B	Jarrell	
436A	Wall Ranch, Gause	
437A	Phantom Ranch, North Zulch	
438A	Sam Houston State University, Huntsville	
439A	Center Grove, Livingston	
440A	Kirbyville	
441A	DeRidder	
442A	Mamou	
443A	Delano Plantation, Melville	
444A	Pine Grove	
445A	Amite	
446A	Poplarville	
447A	Lucedale	
448A	Bay Minette	
449A	Pace	
450A	Crestview	
451A	Vernon	
452A	Marianna	
453A	Whigham	
454A	Quitman	
455A	Stateville	
456A	Hilliard	
457A	Yulee	
526A	Mary Lane Ranch, Marfa	
527A	Woodward Ranch, Alpine	
528A	Cox Ranch, Sanderson	
529A	Stev Forest Ranch, Sanderson	
530A	J-C Ranch, Comstock	
531A	Rocksprings	
532A	Rocksprings	
533A	Kerrville	
534A	Blanco	
535A	Dale	
536A	Bastrop	
537A	Green Hill Farm, Brenham	
538A	Harpers Horsepen, Conroe	
539A	Cross D Ranch, Liberty	
540A	Vidor	
541A	Lake Charles	
542A	Morse	
543A	St. Martinville	
544A	White Castle	
545A	Edgard	
546A	Slidell	
552A	Lynn Haven	
553A	Crawfordville	
554A	Perry	
555A	McAlpin	
556A	Lake Butler	
557A	Orange Park	
626A	Big Bend Ranch, Presidio	
627A	Terlingua Ranch, Terlingua	
628A	Black Gap, Marathon	
631A	Perdido Creek Ranch, Del Rio	
632A	Uvalde	
633A	Saathoff Ranch, Hondo	
634A	China Grove, San Antonio	
635A	Leesville	
636A	Smothers Creek Ranch, Hallettsville	
637A	Eagle Lake	
638A	Rosharon	
645A	Chauvin	
646A	Port Sulphur	
655A	Horseshoe Beach	
656A	Willston	
657A	Interlachen	
658A	Bunnell	
732A	Laxson Ranch, Crystal City	
733A	Divot King Ranch, Dilley	
734A	La Parita Creek, Jourdanton	
735A	Kenedy	
736A	Circle Diamond K Ranch, Victoria	
737A	Port Lavaca	
738A	Farr-Stevens Ranch, Sargent	
757A	Oxford	
758A	Lake Helen	
832A	Faith Ranch, Carrizo Springs	
833A	Chaparral WMA, Artesia Wells	
834A	Tilden	
835A	Beeville	
857A	Zephyrhills	
858A	St. Cloud	
859A	Kempfer Cattle CO., St. Cloud	
933A	Laredo	
934A	Benavides	
936A	North Padre Island, Corpus Christi	
957A	Wimauma	
958A	Wauchula	
959A	Okeechobee	
A001	Piccione	
A004	Sigillo	
A01	A01	
A02	A02	
A04	A04	
A04A	Legoe Bay, Lummi Island	
A04D	Lummi Island	
A05	A05	
A05A	Maple Falls	
A06	A06	
A06A	Chilliwack	
A07	A07	
A07A	Ashnola River, Keremeos	
A08	A08	
A08A	Turner Farm, Oroville	
A09	A09	
A09A	Danville	
-A0MA	Subarray A0 LASA	
A10	Crater	
A10A	Northport	
A10E	A10E	
A11	Saint Roch-des-Aulnaies	
A11A	Hall Mountain, Copeland	
A11E	A11E	
A12	A12	
A12A	Yaak River Ranch, Troy	
A13	A13	
A13A	Flathead National Forest, Polebridge	
A14	A14	
A14A	Double T Ranch, Babb	
A15	A15	
A15A	Johnson Ranch, Cut Bank	
A16	Riviere Ouelle	
A16A	West Butte Ranch, Sweetgrass	
A16E	A16E	
A17	A17	
A17A	Triple J Farms, Joplin	
A18	A18	
A18A	Metzger Ranch, Havre	
A19	A19	
A19A	Klindworth Farms, Hogeland	
A20	A20	
A20A	Cobblestone Ranch, Loring	
A21	Saint Andre	
A21A	Bergtoll Ranch, Theony	
A21E	A21E	
A21K	Barrow	
A22A	Carney Farms, Richland	
A23A	Redstone	
A24A	Westby	
A25A	Svangstu Ranch, Noonan	
A26A	Wade Farm, Kenmare	
A27A	Ledoux Ranch, Antler	
A28A	Rude Farm, Bottineau	
A29A	Manning Farm, Rocklake	
A30A	Hoffart Farm, Langdon	
A31A	Linda, St. Vincent	
A32A	Rocking H Ranch, Lancaster	
A33	A33	
A33A	Warroad	
A36M	Sachs Harbour	
A490	San Lazaro	
A492	Arado	
A494	Palo Verde	
A495	El Viejo	
A50	A50	
A51	A51	
A52	A52	
A53	A53	
A54	Misere	
A54E	A54E	
A61	Sainte Mathilde	
A64	Saint Simeon	
A70	A70	
A71	A71	
A72	A72	
A80	A80	
A82	A82	
A83	A83	
A84	A84	
A85	A85	
AA02	Valdichiascio	
AA1	Alma-Ata	AAA
AA2	Talgar	TLG
AAA	Alma-Ata	
AAB	Talgar	TLG
AAC	Aachen	
AADN	Adndan	
AAE	Adis Abeba	
AAGR	Agrelo	
AAHD	Abu Hadid	
AAI	Ambon	
AA-IS	Atka	
AAK	Ala-Archa	
AAL	Aland	
AALM	Campus Universitario de Almeria	
AAM	Ann Arbor	
AAM1	Ambato 1 (Municipio)	
AAM2	Ambato 2 (Mercado Am^'rica)	
AAMC	University of Michigan	
AANG	Aceler^‡grafo del Angel	
AANI	Anillaco	
AANS	Anshas	
AAP	Anini-y	
AAPN	Arroyo Pinares	
AAR	Sfinta Ana	
AARM	Airport Road	
AAS	Arctowski Station	
AASA	Agas	
AASM	Arroyo Seco	
AAU	Alta	
AB-	Amboy	AB-WV
AB01	Akbulak array site	
AB02	Akbulak array site	
AB03	Akbulak array site	
AB04	Akbulak array site	
AB05	Akbulak array site	
AB06	Akbulak array site	
AB07	Akbulak array site	
AB08	Akbulak array site	
AB09	Akbulak array site	
AB31	Akbulak array site	
ABA	Alger-Bouzareah	
ABA1	Baconsthorpe	
ABAR	Abu 'Arish	
ABAZ	Army Bay	
ABB	Abborrasen	
ABC	Abeche	
ABD	La Joyeuse, Anse Bertrand	
ABE	Aberdeen	
ABEM	Aberfeldy	
ABF	Auke Bay	
ABG	Abington	
ABG1	Leinawald	
ABGF	Abri du Galion	
ABH	Alteburg	
ABHA	Abha	
ABI	ADIBADRI	
ABJ	Abashiri	
ABJ2	Abashiri 2	
ABJI	Asem Bagus	
ABJM	Bob Jauregui Ranch	
ABK	Abisko	
ABKAR	Akbulak array	
ABKT	Ailbek	
ABL	Mount Abel	
ABM	Ambohimiarambe	
ABMC	Merrill Creek	
ABMS	Boumerdes	
ABN	Auburn	
ABNR	Abakan	
ABOA	Aboa	
ABP	Abra de Ilog	
ABPO	Ambohimpanom	
ABQ	Albuquerque	ALQ
ABR	El Abra	
ABRA	Dolores	
ABRE	Abriola	
ABRM	Brophy Road	
ABRN	Auburn	
ABS	Abastumani	
ABSA	Djebel Ababsia	
ABSE	Abaselama	
ABSI	Aberstueckl	
ABT	Abant	
ABTA	Abfaltersbach	
ABTN	Auburntown	
ABTO	Aybut	
ABTX	Abilene, Hawley	
ABU	Abuyama	
ABUS	Abu Simbel	
ABV	Anegada	
ABVI	Anegada Island	
AB-WV	Amboy	
AC01	Pan de Azucar	
AC02	Maricunga	
AC04	Llanos de Challe	
AC05	El Transito	
ACA	Amchitka Central A	
ACAL	Aguas Claras	
ACAN	Cantantal	
ACAP	Capistrello	
ACB	Amchitka Central B	
ACBG	Cabo de Gata	
ACC	Amchitka Central C	
ACCN	Adirondack Community College	
ACCO	Cerro Coronel	
ACD	Amchitka Central D	
ACDF	Aurillac	
ACDV	Cuesta del Viento	
ACE	Amchitka Central E	
ACEO	Ashtabula EMA	
ACER	Acerenza	
ACES	Army Corps of Engineers Seattle ANSS	
ACF	Amchitka Central F	
ACH	Altos	
ACHA	Angle Creek Headwaters	
ACHB	Acheberg	
ACHE	Chepes	
ACHM	Chimeneas	
ACHS	Amedichi	
ACI	Arcavacata	
AC-IS	Amchitka	
ACK	Alder Creek	
ACKN	Achilles Lake	
ACL	Alicudi	
ACLA	Agua Clara, Sierra Llorona en Colsn	
ACLC	CERRO LA CRUZ	
ACLR	Calar Alto	
ACLS	Los Chiles	
ACM	Allegan	
ACO	Alabaster Cavern State Park	
ACOH	Alum Ck. St. Park	
ACOM	Acomizza, Italy	
ACON	Acoyapa	
ACOR	Acrocorinthos	

Code	Station Name	Other
ACOT	Cotacachi (Casa del Agua)	
ACP	Acatlan	
ACP2	Acapulco	
ACR	Cerro Adams	
ACSO	Alum Creek State Park	
ACTN	Antioch Church	
ACTO	Acton	
ACU	Canalobre	
ACVZ		
ACX	Acapulco	
ACY	Acoyapa	
AD-	Adak Island	AD-IS
AD01	Meldola (FC)	
AD02	Mondaino (RN)	
AD03	Mombaroccio (PU)	
AD04	Corinaldo (AN)	
AD05	S.Marcello (AN)	
AD06	Osimo (AN)	
AD1	Great Sitkin	
AD2	Umak	
AD3	Kagalaska	
AD4	Hidden Bay	
AD5	Yakak	
AD6	South Kanaga	
AD7	North Kanaga	
AD8	Adagdak	
ADA	Adak	
ADAG	Mount Adagdak	
ADAT	Adana	
ADB	khalkal	
ADC	Auburn Dam	
ADCV	BITLIS_Adilcevaz	
ADDN	Jabal Ad Dan - Dhamar Gov. - Yemen	
ADE	Adelaide	
ADEE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
ADEN	Aden	
ADES	Adelaida	
ADH	Angra Heroismo	
ADH0	Angra Heroismo	
ADI	Adamit	
AD-IS	Adak Island	
ADIT	Lawson Adit, UC Berkeley, California	
ADJ	ADJUD	
ADJB	Djebel Djouab	
ADK	Adak	
ADKI	Addanki	
ADL	Adelanto	
ADM	NRDS	
ADN	Adams	
ADO	Adelanto Receiving Station	
ADOK	Arcadia Dam	
ADR	Anderson Reservoir	
ADRA	Adra	
ADRI	Adria, Italy	
ADSC	Addlestone Acy	
ADT	Adana	
ADUE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
ADVT	Abdulvahap	
ADWM	Drytown Water District	
AE-	Albemarle	AE-NC
AEB	Amchitka	ASB
AECU	Ecuador Network	
AEKI	Aeknabara	
AE-NC	Albemarle	
AERF	Escuela - Rosario de la Frontera	
AEU	East Anglia University	
AFAR	Ash Flat	
AFC	Alfacar	
AFDM	Forest Hills Divide	
AFFS	'Afif	
AFH	Ashford Hill	
AFHM	Forest Hill Site	
AFI	Afiamalu	
AFIF	Afif	
AFL	Alpe Faloria	
AFO1	Alfred	
AFO2	Alfred	
AFOK	Anatahan S. Rim	
AFON	Font Roja	
AFR	Afareaitu	
AFRM	Fiddyment Ranch	
AFRZ	Afriz	
AFS	Agadir Fac de Sc.	
AFSR	Af¯ar-Bala (Ankara)	
AFUE	Fuente Hervidero	
AFYO	Afyonkarahisar	
AG-	Augusta	AG-ME
AGA	Agualva	
AGAC	Agave Hill	
AGAL	Gebel Alisa	
AGAM	Agassiz Lake	
AGBLB	Aguas Belas	
AGBR	Sao Joaquim do Monte	
AGC	Angel Island	
AGCH	Angol	
AGD	Arta Grotte	
AGDM	Agdam	
AGE	Agenahambo	
AGEO	AgiosGiorgios, Aigialia, West Greece	
AGG	Agios Georgios	
AGI	Augustine Island	
AGIA	AGIA	
AGIM	Gold Rush Inn	
AGL	Agalyk	
AGM	Allagash	
AG-ME	Augusta	
AGMN	Agassiz National Wildlife Refuge	
AGMR	Gebel Marawa	
AGN	Agin	
AGN1	Agios Nikolaos	
AGO	Saint Agoulin	
AGOC	Agoura	
AGOR	Agordo	
AGP	Aguadilla	
AGPR	Aguadilla, PR	
AGR	Agra	
AGR2	Agrinio	
AGRA	Agra	
AGRB	Hanur-Agry	
AGRI	Agrihan Island	
AGRP	Agrapidokambos, Nafpaktia, West Greece	
AGRT	Agri	
AGRW	Gebel Rewraw	
AGST	Augusta-Monte Tauro	
AGT	Agartala	
AGT1	Agia Thekli	
AGU	Augustine-Summit	
AGUA	GUANDACOL	
AGUAY	Guayaquil	
AGUN	Aguas Calientes	
AGV	La Aguada	
AGVB	Aqua Vermelha	
AGX	Aguascalientes	
AGZ	La Independencia	
AHA	Ahua	
AHB	Akutan Harbor	
AHBU	AHRAM	
AHCB	Chemainus	
AHDM	Hacienda Drive	
AHID	Auburn Hatchery	
AHLV	Sanatorio - la Vina	
AHML	Horco Molle	
AHRM	Harold F. Ross	
AHRW	Bad Neuenahr-Ahrweiler	
AHS	Asahigawa	
AHU	Ahuachapan	
AHWZ	Ahwaz	
AI-	Alliance	AI-NB
AIA	Argentine Island	
AIA1	Aiani, KOZANI	
AIB	Aibetsu	
AIB2	Ibarra (Universidad Cat^‡lica)	
AIC	Anacapa Island	
AICH	Aicho	
AID	Aizu	
AIDS	Halavar	
AIES	Las Flores	
AIG2	Aigio	
AIGLE	Aigle	
AIK	Aikawa	
AIL	L'Aileron	
AIN	Ainahou	
AI-NB	Alliance	
AIO	Antillo	
AIOA	Agios Ioannis, Aigialia, West Greece	
AIPV	Ipv	
AIS	Amsterdam Island	
AIT	Ait Ouarda	
AITP	Aitape	
AIUT	Southern Antelope Island	
AIZW	AIZWAL	
AJAC	Base Areonavale d'Aspretto	
AJAF	Ajaccio	
AJAR	Ajai Ranch	
AJAX	Aniakchak Jack	
AJI	Ajiro2	
AJLJ	Ajlon	
AJM	Ajmer	
AJMR	Ajmer	AJM
AJN	Ajban	
AK-	Atoka	AK-OK
AK0	North Tanaga	
AK01	Malin Array Site 01	
AK02	Malin Array Site 02	
AK03	Malin Array Site 03	
AK04	Malin Array Site 04	
AK05	Malin Array Site 05	
AK06	Malin Array Site 06	
AK07	Malin Array Site 07	
AK08	Malin Array Site 08	
AK09	Malin Array Site 09	
AK1	West Kanaga	
AK10	Malin Array Site 10	
AK11	Malin Array Site 11	
AK12	Malin Array Site 12	
AK13	Malin Array Site 13	
AK14	Malin Array Site 14	
AK15	Malin Array Site 15	
AK16	Malin Array Site 16	
AK17	Malin Array Site 17	
AK18	Malin Array Site 18	
AK19	Malin Array Site 19	
AK2	South Tanaga	
AK20	Malin Array Site 20	
AK21	Malin Array Site 21	
AK22	Malin Array Site 22	
AK23	Malin Array Site 23	
AK3	North Tanaga	
AK4	Bobrof	
AK5	North Tanaga	
AKA	Akutan	
AKA1	Akutan 1	AKA
AKA2	Akutan 2	
AKA4	Akutan 4	
AKA5	Akutan 5	
AKAR	Aktash	
AKAS	Kas	
AKASG	Malin Array Beam Reference Point	
AKAY	Kef Ayad	
AKB	Aktobe	
AKBB	Malin Array Site BB	
AKBBA	Akutan Broad B.	
AKC	Akcakoca	
AKCD	Akcadag	
AKCZ	Akaroa Harbour	
AKDA	Akdag	
AKDM	Akdamar-Van	
AKDN	Akdeniz- K¯–br¯–s	
AKET	Djebel Ketaf	
AKF	Akfadou	
AKGG	Akutan Green Grass	
AKGH	Akosombo	
AKH	Akhalkalaki	
AKHS	Akhisar	
AKI	Akita	
AKI1	Akita	
AKIJ	Akita 2	
AKIN	Ak¯–nc¯–lar- K¯–br¯–s	
AKK	Akkeshi	
AKK1	Akkuyu-Mersin	
AKK2	Akkuyu-Mersin	
AKKT	Akkus	
AKKU	Akkuyu-Mersin	
AKL	Akola	
AKLV	Akutan Long Valley	
AKM	Akama	
AKMC	Akamas	
AKMO	Akutan Morgan	
AKMS	Akamas	
AKN	Aaknes	
AKO	Adana	
AK-OK	Atoka	
AKR	Ocre	
AKR1	Akrata	
AKRB	Akutan Reef Bight	
AKRG	Al Kharijah	
AKRL	Khor El Raml	
AKRT	Stavros Akrotiri	
AKS	Akhisar	
AKSA	Akutan Strait	
AKSR	Khor Sakr	
AKSY	AKSARAY - Altinkaya	
AKSZ	Araks	
AKT	Akhty	
AKTK	Aktyubinsk	
AKTO	Aktyubinsk	
AKTT	Aktoprak	
AKU	Akureyri	
AKU-	Akureyri	
AKUL	Akkuyli	
AKUM	Antalya-Kumluca	
AKUR	Kurkur	
AKUT	Akutan	
AKV	Akutan Volcano	
AKVQ	Akulivik	
AKY	Akyazi	
AL-	Antlers	AL-OK
AL1	Aidlin Power Plant 1	
AL2	Aidlin Power Plant 2	
AL3	Aidlin Power Plant 3	
AL31	ALPA Array Site 31	ALAR
AL32	ALPA Array Site 32	
AL33	ALPA Array Site 33	
AL34		FBAL
AL35		AL5
AL36	ALPA Array Site 36	
AL37	ALPA Array Site 37	
AL4	Aidlin Power Plant 4	
AL5	ALPA Array Site 35	
AL6	Aidlin Power Plant 6	
ALA	Alamo	
ALAM	Latrobe	
ALAN	Alanya-ANTALYA	
ALAR	ALPA Array Beam Reference Point	
ALAS	Alassa	
ALAT	Latacunga	
ALAU	Alaus^›, Posada N	
ALB	Alberni	
ALBA	Albanya	
ALBD	Alberton, Johannesburg	
ALBI	Allahabad	
ALBO	Alboran Island OBS	
ALC	Alcan	
ALCE	Alcedo, Punta Alfaro	
ALCN	Alcanar	
ALCS	Alfacar	
ALCT	Alcott Elementary School	
ALD	Alter Ridge	
ALDR	Aldan	
ALE	Alert	
ALF	Alfred	
ALF01	Guarapari-ES	
ALFC	Alefka	
ALFM		
ALFO	Alfred	
ALG	Algiers University	
ALGO	Algonquin Park	
ALGS	Alagyaz	
ALH	Alicahue	
ALHU	Pen de Alhucemas	
ALI	Alicante	
ALIA	Aliabad	
ALIB	Äli-Bayramli	
ALIBE	La Libertad	
ALID	Alaid	
ALIK	Aliki, Aigialia, West Greece	
ALIN	Konya/Alt¯–ntekin	
ALJ	Aljibe	
ALJA	Alia	
ALKI	Alki Wastewater Plant ANSS-SMO	
ALL	Alla	
ALLA	Alla	ALL
ALLY	Alegheny College	
ALM	Almeria	
ALME	Alemaya	
ALMG	Alamagan	
ALMR	Almeirim	
ALMT	Alberton, Montana	
ALN	Alexandroupolis	
ALNA	Alonissos	
ALNE	Al Ain	
ALNG	Atlantic LNG	
ALNM	Lincoln	
ALO	Ashland	
ALOA	Alotau	
ALOJ	Loja	
AL-OK	Antlers	
ALOL	LOMAS DE OLMEDO	
ALOT	Alotau	
ALP	Ascoli Pisceno	
ALPC	Antelope	
ALPW	Alpine	
ALQ	Albuquerque	
ALR	Isla de Alboran	
ALRB	Anaheim Lake	
ALRZ	Allen Road	
ALS	Alishan	
ALST	Alston	
ALT	Altintas	
ALTA	Alta Urco	
ALTM	Altmuhljura-Amtmannsdorf	
ALTO	Alotau	
ALTV	Alturitas	
ALU	Alushta	
ALUC	Giresun/Alucra	
ALUM	Lumbreras	
ALV	Alvord Mountain	
ALVY	Alvey	
ALWS	Ilw as Safayhah	
ALX	Alexander Bay	
ALX2	Alexandroupolis	
ALXA	Alekseevka, NSO, Russia	
ALZ	Aoulouz	
AM-	Ardmore	AM-OK
AM1	Amasugawa 1	
AM2	Amasugawa 2	
AM9	Amelia	AMI
AMA	Amatignak Island	
AMAG	Maghara	
AMAN	Manam	
AMANT	Manta	
AMAR	Marayes	
AMAS	Alto Masis	
AMAZ	Amatzia	
AMB	Ambulong	
AMB1	Ambar	
AMBH	Ambr^‡zfalva	
AMBZ	Amberd	
AMC	Almaden	
AMC*	Amchitka	
AMD	Amderma	
AMDA	Medea	
AMDE	Amderma	
AMDNV	Amargosa	
AME	Amchitka East	
AMEN	Colle Ameno	
AMF	American Fork	
AMG	Americus	
AMGA	Amorgos Island	
AMI	Amelia	
AMIL	Milagro (Transelectric)	
AMJ	Amo	
AMKA	Amchitka	
AML	Almayashu	
AMLC	Mogote Corralitos	
AMM	Anaconda	
AMME	Ethiopia-Afar Geoscientific Lithospheric Experiment	
AMN	Amanu	
AMNH	Manhattan	
AMO	Ambon	
AMOG	MOGNA	
AM-OK	Ardmore	
AMOM	Mompiche	
AMOR	Amorgos	
AMP	Ambar	
AMR	Amargosa	
AMRC	Marco	
AMRG		
AMRH	Mont Rhoder	
AMRP	Almeirim	
AMRR	Amara	
AMS	Amos	
AMSY	Amasya-Merkez	
AMT	Artemida-Makistos	
AMTX	Amarillo	
AMU	Anchorage	
AMUR	Altamura	
AMVM	AMECAMECA	
AMW	Mount Adams	
AMZI	Amatzia	
AN-	Angela	AN-MA
AN1	Anna	
AN1*	Pine Canyon	PNC
AN10	Anna	
AN11	Anna	
AN12	Anna	
AN12*	Salinas Radio	SRC
AN13*	Quien Sabe	QSR
AN14*	Cienega Rd	BCGM
AN15*	Johnson Can.	JHC
AN2*	Forsythe	
AN3	Anna	
AN3*	San Juan Grade	HJGM
AN4	Anna	
AN4*	Pacheco Lake	PCL
AN5*	Dillon Ranch	DIL
AN6*	Chase Ranch	CSR
AN7	Anna	
AN7*	Canada Road	CDC
AN8	Anna	
AN8*	Peckham Road	PKC
AN9	Anna	
AN9*	Anzar Reservoir 9	
ANA	Amchitka	
ANA2	Anatahan	
ANAC	Anensky vrch	
ANAF	Anafi Island	
ANAL	New Alisa	
ANAR	Anarak	
ANAT	Anatahan	
ANB	Amchitka	
ANBD	Bethesda, Antigua	
ANC	Marguerite Bay	
ANCC	Alto Anchicaya	
ANCH	Antofagasta	
ANCK	Angle Creek	
ANCR	Anchorite	
AND	Amchitka	
AND3	Andretta	
ANDN	Andirin	
ANDR	Anadyr'	
ANDR2	Anadyr, Chukotka	
ANDZ	K^…tahya/Merkez-And¯–z	
ANE	Angren	
ANER	Nerja	
ANG	Antigua	
ANGC	Angol	
ANGG	Ammassalik, Greenland	
ANGL	Ecuador	
ANGS	El Angel	
ANGU	Angureal	
ANGV	Angostura	
ANGW	Angle Mountain	
ANH	Anchorage	
ANI	Aniakchak	
ANI*	Anchorage	ANH
ANIA	Aniakchak Crater	
ANIG	Ahuacatlan	
ANIL	Santa Ana	
ANJJ	Anjarah	
ANK	Ankara	
ANKA	Aniakchak	
ANKE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
ANKY	Antikythira Island	
ANL	Andalgala	
ANM	Nome	
AN-MA	Angela	
ANMB	Anmore	
ANMO	Albuquerque	

Code	Station Name	Other
ANMR	North Marawa	
ANN	Anapa	
ANNA	Wolkenburger Bergbaurevier	
ANNE	Aniakchak Northeast	
ANNS	Annsville	
ANNW	Aniakchak Northwest	
ANON	Aniakchak	
ANP	Anpu	
ANPB	Aniakchak Plenty Bear	
ANPK	Aniakchak Peak	
ANR	Andizhan	
ANS	Ancona	
ANSS	Anadyr, Chukotka	
ANT	Antofagasta	
ANTB	Antalya	
ANTC	Antisana-Cuyuja	
ANTCA	Antelope Range	
ANTF	Antibes	
ANTG	Antisana-Guamanˆ›	
ANTI	Antisana	
ANTM	Antisana-La Mica	
ANTN	Anderson	
ANTO	Ankara	
ANTR	Antelope Ridge	
ANTS	Antisana-Sarahuasi	
ANTT		
ANTU	Antumapu	
ANTZ	Aouinet Torkoz	
ANU	Antelope Island	
ANV	Anvil Mountain	ANM
ANVS	Anan'yevo	
ANVZ		
ANWB	Willy Bob	
ANWZ	Angora Road	
ANX	Ano Chora	
ANZ	Anzar Road	
AO-	Argonne	AO-WS
AOB	Aobayama	
AODM	Outingdale	
AOF	Agadir Oufela	
AOHM	Oregon House	
AOI	Ancona	
AOL1	Archaia Olimpia	
AOM	Aomori	
AOM1	Aomori	
AOM3	Aomori 3	
AOMJ	Aomori 2	
AOPR	Arecibo Observatory	
AOS	Alonnisos	
AOT	Adel	
AOTA	Otavalo	
AOU	Aou	
AO-WS	Argonne	
AP-	Apache	AP-OK
AP01	Chacalluta	
AP3N	Apex site 3 Nunavut	
APA	Apatity	
APA0	Apatity Array Site A0	
APA1	Apatity Array Site A1	
APA2	Apatity Array Site A2	
APA3	Apatity Array Site A3	
APAE	Packway	
APAES	Apatity Array Beam Reference Point	
APB1	Apatity Array Site B1	
APB2	Apatity Array Site B2	
APB3	Apatity Array Site B3	
APB4	Apatity Array Site B4	
APB5	Apatity Array Site B5	
APC	Apacha	
APCG	Parque de las Ciencias	
APE	Apeiranthos	
APEC	Apecchio	
APER	Aper	
APEZ	Moni Apezanon	
APG	El Apazote	
APGM	Casa Mˆ¡quinas Miravalles	
APH	Airport Hangar	
APHE	Pico Herrero	
API	Apia	
APK	Angel's Peak	
APKW	Angels Peak	
APL	Alpnach	
APLA	Playas - Guayaquil	
APLL	PUNTA DE LOS LLANOS	
APM	Augspurger Mountain	
APN	Apakhonchich	
APNR	Astor Pass	
APO	Äppelbo	
AP-OK	Apache	
APON	Apoyo	
APOP	Alto Boquete	
APP	Appelbo	APO
APPA	Casa Mˆ¡quinas Las Pailas	
APPI	Appiano	
APR	Arecibo	
APRM	Poppy Hill Road	
APRS	Wahet Paris	
APSI	Ampana	
APT	Avery Point	
APUY	Puyo	
APW	Alpha Peak	
APY	Apoyeque	
APYN	Apoyeque	
APYP	Conner	
APZ	The Paps	
APZ9	Apatity	
AQ6*	Aqua Casa	
AQBJ	Aqaba	
AQCC	Dique - Cabra Corral	
AQDB	Aquidauana	
AQT1	Arquata del Tronto	
AQU	L'Aquila	
AQUE	Quevedo	
AR-	Aurora	AR-WS
AR03	Chiusi della Verna (AR)	
AR1	Arenal	
AR2	Lago de Cote	
AR3	Tierras Morenas	
AR4	Solania	
AR5	Santa Elena	
AR6	Chiripa	
AR7	Cape Frico	
AR8	Nicoya	
AR9	North	
ARA	Arapuni	
ARA0	ARCESS Array Site A0	
ARA1	ARCESS Array Site A1	
ARA2	ARCESS Array Site A2	
ARA3	ARCESS Array Site A3	
ARAC	Aracena	
ARAG	Araguaiana, MT - Brazil	
ARAS	Rassina, Castel Focognano (AR)	
ARB1	ARCESS Array Site B1	
ARB2	ARCESS Array Site B2	
ARB3	ARCESS Array Site B3	
ARB4	ARCESS Array Site B4	
ARB5	ARCESS Array Site B5	
ARBA	Ethiopian Broadband Seismic Experiment	
ARBE	Arbavere	
ARBF	Arbois	
ARBS	La Rabassa	
ARC	Arcata	
ARC1	ARCESS Array Site C1	
ARC2	ARCESS Array Site C2	
ARC3	ARCESS Array Site C3	
ARC4	ARCESS Array Site C4	
ARC5	ARCESS Array Site C5	
ARC6	ARCESS Array Site C6	
ARC7	ARCESS Array Site C7	
ARCES	ARCESS Array Beam Reference Point	
ARCH	Arica	
ARCI	Arcidosso	
ARCO	CERRO ARCO	
ARCR	ARCALIA	
ARD	Arida	
ARD1	ARCESS Array Site D1	
ARD2	ARCESS Array Site D2	
ARD3	ARCESS Array Site D3	
ARD4	ARCESS Array Site D4	
ARD5	ARCESS Array Site D5	
ARD6	ARCESS Array Site D6	
ARD7	ARCESS Array Site D7	
ARD8	ARCESS Array Site D8	
ARD9	ARCESS Array Site D9	
ARDC	Alexander Ranch	
ARDO	Archidona, Tena	
ARDR	Aradan	
ARE	Arequipa	
ARE0	ARCESS Array Site E0	
ARE1	Arenal 1	
ARE2	Areopolis	
AREB	Areado	
AREE	Arenal	
AREEX	Ethiopia-Afar Geoscientific Lithospheric Experiment	
ARG	Arkhangelos	
ARG2	Argostoli	
ARGC	Ariguani, Magdalena	
ARGU	Argyle Ridge	
ARH	Archignac	
ARHR	Arkhangelsk	
ARHZ	Aropaoanui	
ARI	Arica	
ARIC	Ariccia	
ARIG	Puente Sto Nino	
ARIO	Riobamba	
ARJM	Robert W. Jensen	
ARK	Arkit	
ARK1	Arkalochori	
ARKL	Arkaroola	
ARKR	Arakani	
ARL	Chiapas	
ARLS	Aral	
ARM	Puerto Armuelles	
ARM2	Puerto Armuelles 2	
ARMA	Armidale	
ARME	Armento	
ARMN	K¯–rklareli/Merkez-Arma¯an	
ARMS	Ukamas	
ARMT	Armutlu	
ARN	Arnold Ranch	
ARNB	Al Arnab	
ARNI	Argonne North	
ARNL	Arenillas	
ARNO	Arenosillo	
ARNR	Ardon	
ARNS	Arna	
ARNU	Arnoeviken	
ARNY	Arden House	
ARO	Arta Observatory	
AROD	Rodeo	
AROL	Arenal Observatory Lodge	
ARP	Angono	
ARPR	Arapgir-MALATYA	
ARPS	Mount Arapiles	
ARPT	Arp	
ARQ	Araqi	
ARR	Arges	
ARRM	Rickey Ranch	
ARRO	Arrone	
ARRY	Arrayan	
ARRZ	Ararat	
ARS	Arshan	
ARSA	Arzberg	
ARSB	Arslanbob	
ARSH	Arusha	
ARSS	Ar Rass	
ARST	Arsuz	
ART	Arta	
ART2	Arta	
ARTF	Artigues	
ARTJ	Al Aritein	
ARTL	Arthez-de-Bearn	
ARTM		
ARTR	Artybash	
ARTS	Artic	
ARTT	Arusha	
ARTV	Artvin	
ARU	Arti	
ARUT	Antelope Range	
ARUZ	Aruch	
ARV	Arcevia	
ARVC	Arvin	
ARVD	Arcevia	
ARVI	'Arava Valley	
ARVN	Arviat, NU	
ARWM	Richard P. Wilkes	
AR-WS	Aurora	
ARX	ARAXOS	
ARXR	Arkhyz	
ARXS	Arharly	
AS01	Alice Springs Array Site 1	
AS02	Alice Springs Array Site 2	
AS03	Alice Springs Array Site 3	
AS04	Alice Springs Array Site 4	
AS05	Alice Springs Array Site 5	
AS06	Alice Springs Array Site 6	
AS07	Alice Springs Array Site 7	
AS08	Alice Springs Array Site 8	
AS09	Alice Springs Array Site 9	
AS10	Alice Springs Array Site 10	
AS11	Alice Springs Array Site 11	
AS12	Alice Springs Array Site 12	ASAR
AS13	Alice Springs Array Site 13	
AS14	Alice Springs Array Site 14	
AS15	Alice Springs Array Site 15	
AS16	Alice Springs Array Site 16	
AS17	Alice Springs Array Site 17	
AS18	Alice Springs Array Site 18	
AS19	Alice Springs Array Site 19	
AS31	Alice Springs Site	
ASA	Asahikawa	
ASAI	AK-SAY(Kyrgyzstan)	
ASAJ	Asahikawa	
ASAK	Asacha	
ASAL	Salagasta	
ASAO	Ashtian	
ASAR	Alice Springs Array Beam Reference Point	
ASAT	Asagicarikuru	
ASB	Amchitka	
ASBA	Santa Barbara	
ASC	Amchitka	
ASCB	Sierra Cabrera	
ASCN	Ascension	
ASD	Amchitka	
ASDO	Santo Domingo	
ASE	Aserradero	
ASEAF	Site Antares, Toulon	
ASEE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
ASF	Jabal al Asfar	
ASG	Minamiashigara	
ASGA	Asgata	
ASH	Ashkhabad	
ASH19	Ascension Island Hydrophone Array Site 19	
ASH21	Ascension Island Hydrophone Array Site 21	
ASH23	Ascension Island Hydrophone Array Site 23	
ASH24	Ascension Island Hydrophone Array Site 24	
ASH25	Ascension Island Hydrophone Array Site 25	
ASH26	Ascension Island Hydrophone Array Site 26	
ASH27	Ascension Island Hydrophone Array Site 27	
ASH29	Ascension Island Hydrophone Array Site 29	
ASHG	Umm Shaghir	
ASHJ	Ashqof	
ASHO	Ashiyiah	
ASHS	Asacha	
ASHT	Ashkhabad	
ASI	Mount Amassa	
ASIG	Aasiaat, Greenland	
ASJ	Aso san	
ASK	Askoy	
ASKD	Sinn el Kaddab	
ASKU	Askersund	
ASL	Abu Simbel	
ASM	Asama Yama	
ASME	Asmera	
ASMM	Slate Mountain	
ASMO	Sierra Morrones	
ASNY	Au Sable	
ASO	Aso	
ASOL	Asolo	
ASOR	Ausora	
ASP	Alice Springs	
ASPA	Alice Springs	
AS-PA	Altoona	
ASPF	Aspremont	
ASPU	Aespoe	
ASQU	Asqua	
ASR	Mount Adams--Stagman Ridge	
ASR1	Anjero-Sudjensk, Russia	
ASRM	Slough House Road	
ASS	Assisi	
ASSB	Assisi San Benedetto	
ASSBE	Assab	
ASSE	Asse, Remlingen/Germany	
ASSG	Aftenstjerne Lake, Greenland	
AST	Butare	BTR
AST1	Astakos	
ASTB	Santa Barbara	
ASTN	Avondale Springs	
ASTR	Astara	
ASU	Arizona State University	
ASUD	Al Ashush, Dubai	
ASUT		
ASW	Aswan	
ASYS		
ASZ	Ashizuri	
AT-	Austin	AT-NV
AT01	Promano (Cittˆ di Castello) - PG	
AT02	Lugnano (Cittˆ di Castello) - PG	
AT03	Montalto (Apecchio) - PU	
AT04	Castiglione Aldobrando (Gubbio) - PG	
AT05	Racchiusole (Umbertide) PG	
AT06	Poggio Sant'Ercolano (Gualdo Tadino) PG	
AT07	Catigliano (Cittˆ di Castello) - PG	
AT08	Fraticciola Selvatica (Perugia) - PG	
AT09	Santa Cristina (Gubbio) - PG	
AT1	West Kanaga	AK1
AT10	Torre dell'Olmo (Gubbio) - PG	
AT11	Monte Civitello	
AT2	South Tanaga	AK2
AT3	North Tanaga	AK3
ATA	Atar	
ATA5	Erzurum, Merkez	
ATAB	Bozova	
ATAF	Djebel Tarf	
ATAH	Atahualpa	
ATAL	Atalanti	
ATAQ	'Ataq	
ATB	Altamira	
ATBU	Serra di Burano	
ATC	Attachie	
ATCA	Cantone	
ATCC	AVT- Casa Castalda	
ATD	Arta Tunnel	
ATDB	Astolofo Dutra	
ATE	Arette	
ATEJ	Tejeda	
ATEN	Tena	
ATES	Arlington Trafton Elementary School	
ATFO	Monte Foce - Gubbio	
ATG	Ambohiby	
ATGJ	Altiaghaj	
ATH	Athens Observatory	
ATHA	Athabasca	
ATHAL	Athalassa	
ATHU	Athens University	
ATI	Atico	
ATIP	Tipaza	
ATKA	Atka Island	
ATKO	Atikokan Iron Mine	
ATKR	Artyk	
ATL	Atlanta	
ATLB	Atluck Lake	
ATLO	AVT- Montelovesco	
ATM	Atsumi	
ATM1	UHE Belo Monte	
ATMC	Monte Cedrone	
ATN	Antennamare	
AT-NV	Austin	
ATO	Altona	
ATOT	Gabel Atot	
ATPA	Allentown	
ATPC	Poggio Castellaccio	
ATPI	Pietralunga - Aviosuperficie	
ATPZ	Tipaza	
ATR	Alsterbro	
ATR1	Atar 1	
ATRE	Renzetti	
ATSC	Scheggia e Pascelupo	
ATT	Attica	
ATTE	AVT- Monte Tezio	
ATTU	Attu Island--Fox	FX1
ATU	Athens Obs.	ATH
ATUL	Tulc¯¡n	
ATVA	AVT- Monte Valcinella	
ATVM	ATLACOMULCO	
ATVO	AVT- Monte Valentino	
ATX	Austin	
ATZ	Mount Atzmon	
AU2	Augustine Island	
AU22	Augustine Mound	
AUALB	St Joseph's College, Albany	
AUAYR	Ayr State High School	
AUBOZ	BOZOYUK	
AUBSH	Beerwah State High School	
AUBUS	Georgiana Molloy Anglican School, Busselton	
AUC	Auckland	
AUCAR	St Mary Star of the Sea, Carnarvon	
AUCAS	Cummins Area School	
AUCH	Augustine Cone H	
AUCSH	Cairns State High School	
AUD	Augustine Domo	
AUDAR	Daramalan College	
AUDCS	Dubbo College Senior Campus	
AUDHS	Darwin High School	
AUE	Augustine Island	
AUF	Augustine Flow	
AUGR	Augrabies	
AUH	Augustine H	
AUHAR	St Anne's School, Harvey	
AUHPC	Hawkesdale P12 School	
AUI	Augustine Island	
AUJA	Augustine Junction	
AUJCS	Jamestown Central School	
AUJK	Augustine Juegen Kienle	
AUK	Auki	
AUKAL	John Paul College, Kalgoorlie	
AUKAR	St Luke's College, Karratha	
AUKAT	Katherine High School	
AUKHS	Kincumber High School	
AUKIR	K¯–rka- Seyitgazi ESKISEHIR	
AUKSC	Keysborough Secondary College	
AUKUL	Kulin High School, Kulin	
AUKUT	KUTAHYA	
AUL	Augustine Lava	
AULHS	Lilydale High School, Lilydale	
AULRC	Lightning Ridge Central School	
AUM	Augustine Mound	
AUMAG	Moama Anglican Grammar School	
AUMAR	Marden Senior College	
AUMAZ	Mazenod Senior College, Perth	
AUMHS	Melrose High School	
AUMIH	MIHALICIK	
AUMOU	Moura State High School	

Code	Station Name	Other
AUMTC	Mt Clear College-Earth Ed	
AUMTS	Mt Stromlo	
AUMUL	Mullumbimby High School	
AUNHS	Nhulunbuy High School	
AUNRC	North Rockhampton State High School	
AUNW	Augustine NWest	
AUP	Augustine Pinnacle	
AUPHS	Peel High School	
AUQ	Augustine Qik'rtamen	
AUQP	San Andres	
AUR	Aurakhmat	
AURF	Auriere	
AURMK	Renmark High School	
AUROX	Roxby Downs High School	
AURSC	Rosebud Secondary College	
AUS	Austin	
AUSE	Augustine SEast	
AUSIS	Research School of Earth Sciences	
AUSIV	SIVRIHISAR	
AUSMG	Snowy Mountains Grammar School, Jindabyne	
AUSN	Aus	
AUSP	Uspallata	
AUSSC	Sale College, Sale	
AUT	El 'Aiyat	
AUTAR	Taroona High School, Taroona	
AUTKS	The King's School, Parramatta	
AUTN	L'Aution	
AUTOO	Toowoomba State High School	
AUUHS	Ulladulla High School, Ulladulla	
AUW	Augustine West	
AUWSH	Wavell State High School	
AVC	Adobe Valley	
AVCI	Avcilar-˜stanbul	
AVE	Averroes	
AVF	Avril sur Loire	
AVFE	Valle Fertil	
AVFP	Avril sur Loire	
AVG3	Avigliano	
AVH	Avacha	
AVIZ	Vizcacheras	
AVN	Avellanes	
AVNC	Asheville	
AVNS	Nevsehir-Avanos	
AVNT	Avonos	
AVO	Avon	
AVOE	Asama Observatory	
AVOW	Apres Vouz Peak	
AVR	AVREN	
AVRM	Valley Road Site	
AVY	Angavokely	
AWA	Amchitka	
AWAE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
AWAL	West Alisa	
AWAZ	Awhitu Peninsula	
AWBH		
AWDQ	Awoonga Dam 3	
AWH	Whinburgh	
AWI	Antigua	
AWI1	Witton	
AWKL	West Kalabsha	
AWOON	Awoonga Dam	
AX-	Alexander City	AX-AL
AX2	Alexander City	AX2AL
AX2AL	Alexander City	
AX-AL	Alexander City	
AXAR	Agios Charalampos	
AXDP	Jialang	
AXS	Araxos	
AXZ	Alexandra	
AY-	Academy	AY-SD
AY1S	Kobdi	
AY2S	Ozernaya	
AY3S	Tungusskii	
AYA	Ayagualo	
AYAC	Ayacucho	
AYAN	Aya Nagar	
AYCH	Puerto Aysen	
AYDB	Zeytinkoy-Aydin	
AYDN	Tasoluk	
AYE	Ayenquera	
AYK	Aydincik	
AYK2	Artyk	
AYKD	Aykdinkavak	
AYN	Al'Uyaynah	
AYNT	El Ayoun	
AYS	Ayseler	
AY-SD	Academy	
AYT	Al 'Ayyat	
AYUS	'Aynunah	
AYVA	Ayvalik	
AYVM	Ayaqueme	
AZ-	Amarillo	AZ-TX
AZ1C	Azucar	
AZAC	Aniakchak	
AZAP	Zapla	
AZI	Avezzano	
AZJ	Azai	
AZL	Aizawl	
AZO	Oaxaca	
AZ-TX	Amarillo	
AZU	Azuero	
AZU1	Azuela	
AZU2	Pedasi@15	
AZUC	Azuc	
AZVM	Cuida Lopez Mateos	
B001	Rancolfo	
B009	North Saanich	
B01	B01	
B010	North Saanich	
B011	North Saanich	
B012	Ucluelet	
B013	Quilcene	
B017	Montesano	
B019	Raymond	
B02	B02	
B022	Seaside	
B023	Clatskanie	
B03	B03	
B04	B04	
B040	Montague	
B04A	Port Angeles	
B05	B05	
B05A	Bryant	
B06	B06	
B06A	Marblemount	
B07	B07	
B07A	Winthrop	
B08	B08	
B08A	Colville Reservation, Omak	
B09	B09	
B09A	Rice	
B10	B10	
B10A	Chitwood Farm, Usk	
B11	B11	
B11A	Sandpoint	
B12	B12	
B12A	Libby	
B13	B13	
B13A	Whitefish	
B14	B14	
B14A	Marquette Ranch, East Glacier	
B15	B15	
B15A	Bradely Ranch, Valier	
B16	B16	
B16A	M & M Farms, Shelby	
B17	B17	
B17A	L&G Farms, Chester	
B18	B18	
B18A	Beardsley Farm, Havre	
B19	B19	
B19A	Brinkman Farms, Chinook	
B1NU	Baffin Island 1	
B20	B20	
B201	Coldwater, Mount Saint Helens	
B202	Windy Ridge, Mt. St. Helens	
B203	Quarry, Mount Saint Helens	
B20A	Solberg Farm, Malta	
B21	B21	
B21A	Ellsworth Farm, Hinsdale	
B22	B22	
B22A	Reddig Ranch South, Frazer	
B23	B23	
B23A	Brockton	
B24	B24	
B25A	Knox Farm, Ray	
B26	B26	
B26A	Jensen Ranch, Palermo	
B27	B27	
B27A	Peters Farms, Glenburn	
B28A	Dugan Ranch, Towner	
B29	B29	
B29A	Wagenman Farm, Cando	
B2NU	Baffin Island 2	
B30	B30	
B30A	Myrvik Farm, Edmore	
B31A	Greenbush Farm, Park River	
B32	B32	
B32A	Ashes, Strandquist	
B33	B33	
B33A	Robert and Kassanda Mosher, Grygla	
B34	B34	
B34A	Aery, Baudette	
B35	B35	
B35A	Bob, Littlefork	
B36	B36	
B37	B37	
B38	B38	
B39	B39	
B40	B40	
B41	B41	
B42	B42	
B43	B43	
B44	B44	
B46	B46	
B49	B49	
B50	B50	
B51	B51	
B52	B52	
B53	B53	
B54	B54	
B55	B55	
B56	B56	
B57	B57	
B58	B58	
B59	B59	
B5GA	5 Glenshane	
B60	B60	
B61	B61	
B62	B62	
B63	B63	
B64	B64	
B65	B65	
B66	B66	
B67	B67	
B70	B70	
B71	B71	
B72	B72	
B73	B73	
B74	B74	
B75	B75	
B82	B82	
B926	Mesachie Lake	
B927	Port Alberni	
B928	Bamfield	
B941	Kapowsin	
BA-	Baldwin	BA-WS
BA01	Aachen	
BA02	Stolberg	
BA03	Weissweiler	
BA04	Fiesheim UWZ	
BA05	Sindorf	
BA06	Horem	
BA07	Koln University	
BA08	Dellbruck	
BA09	Bensberg	
BA10	Klein Altendorf	
BA11	Duren	
BA12	Beaesweiler	
BA13	Heinsberg	
BA14	Wollersheim	
BA15	Heimerzheim	
BA16	Vanikum	
BA17	Glehn	
BA18	Steinbach	
BA19	Koln Dom Grabung	
BA26	K˜¶ln Uni	
BAA	Buenos Aires	
BAB	Beni-Abbes	
BABE	Bainbridge School	
BABR	Babbit Peak	
BAC	Bacau	
BACC	Bachelor Mtn.	
BACF	Baccarat	
BACH	Barnechea	
BACM	Baccana	
BACU	Backbrunna	
BAD	Bernadia	
BADA	Al Bad'	
BADI	Badiali	
BADN	Badegauja	
BADT	Buyukada	
BAE	Brasilia	
BAE1	Brasilia Array Site E1	
BAE2	Brasilia Array Site E2	
BAE3	Brasilia Array Site E3	
BAE4	Brasilia Array Site E4	
BAE5	Brasilia Array Site E5	
BAEE	Brasilia Array Site EE	
BAF	Belacker	
BAF*	Baguio	
BAG	Baguio City	
BAG8	Bagolino	
BAGL	Bagley Icefield	
BAGO	Egridir - ISPARTA	
BAH	Barrette	
BAHI	Ethiopian Broadband Seismic Experiment	
BAHL	Ahlen	
BAI	Bari	
BAI*	Bari	
BAI2	Baranello	
BAIF	Baives	
BAIL	Bailesti	
BAK	Baki	
BAKC	Calstate	
BAKI	Biak	
BAKU	Bakultala	
BAL	Ballidu	
BALA	Baldy Mountain	
BALAT	Bala	
BALB	Balikesir	
BALC	Balcom Canyon	
BALD	Monte Baldo	
BALH	Baltimore	
BALI	Monte Baldo	
BALM	Baldy	
BALP	Baler	
BALST	Balsthal	
BALT	Daday	
BALY	Balya	
BALZ	Balzar	
BAM	Barrage Abdel Moumen	
BAMF	Morne Balai	
BAN	Banff	
BANG1	Bangula	
BANI	BANÍ	
BANL	Banca Lucia	
BANM	Bannockburn	
BANO	Bancroft	
BANOM	Banah	
BANR	Banloc	
BAO	Brasilia Array Centre Point	
BAP	Bailey Peak	
BAP*	Basco	
BAPM	Anderson Peak	
BAPR	Bucharest-Childs Park	
BAR	Barrett	
BAR1		
BARA	Bahrah	
BARB	Barbacena	
BARC	Barichara	
BARK	Barkley Ridge	
BARN	Barnard Glacier	
BARS	Barje	
BART	Pico Bartolomeu	
BARV	Barcelona	
BAS	Basle	
BAS1	Brasilia Array Site S1	
BAS2	Brasilia Array Site S2	
BAS3	Brasilia Array Site S3	
BAS4	Brasilia Array Site S4	
BAS5	Brasilia Array Site S5	
BASC	Basecamp	
BASD	Buyukada	
BASE	Brasilia Array Site SE	
BASH	Bashay	
BASHA	Basha	
BASI	Baing, Sumba	
BASK	Baskale_VAN	
BASM	Basmak˜§i-Afyon	
BASO	Ashfield	
BASP	Panama	
BAT	Bayram-Ali	
BAT2	UHE Batalha	
BATAN	Batan	
BATC	Bat Cave Butte	
BATG	Bathurst New Brunswick	
BATH	Bath	
BATI	Baumata	
BATM	Batumi	
BATO	Ticaya	
BATP	Bataraza	
BAU	Ballabur	
BAUB	UHE Balbina	
BAUT	Bautismo	
BAUV	El Baul	
BAV	Blacksburg	
BAVM	Antelope Valley	
BAVN	Auguste-Victoria Mine North	
BAW	Bavra	
BAW1	Brasilia Array Site W1	
BAW2	Brasilia Array Site W2	
BAW3	Brasilia Array Site W3	
BAW4	Brasilia Array Site W4	
BAWE	Brasilia Array Site WE	
BA-WS	Baldwin	
BAY	Bayanday	
BAYA	Yate Dam	
BAYB	BAYBURT	
BAYC	CANAKKALE_Bayramic	
BAYK	Bayan-Aul	
BAYN	Bayana	
BAYT	Ayd˜–ntepe-Bayburt	
BB-	Bloomsburg	BB-PA
BB01	Montecillos	
BB02	La Guardia	
BB03	San Joaqu˜›n	
BB04	Tambo Quemado	
BB05	Carapari	
BB06	Yocalla	
BB07	Casarave	
BB08	Puerto Suarez	
BB16B	Bebedouro	
BB19	Bebedouro	
BB19B	Bebedouro	
BBA	Boulbra	
BBAC	Balboa, Cauca	
BBAL	Bala	
BBAT	Babati	
BBB	Bella Bella	
BBB4	Pezza	
BBC	Big Bear	
BBD	Blackbird State Forest	
BBEB	Bay Bridge East	
BBG	Brasstown Bald	
BBGB	Big Mountain Broadband	
BBGH	Gun Hill	
BBGM	Big Mountain	
BBH	Bruntsheil	
BBI	Big Bend	
BBIL	Ulba Tungurahua	
BBIR	Bucharest-INCERC-borehole	
BBJ	Bamboo Saint Ann	
BBKI	Banjar Baru	
BBL	Barber's Block	
BBLS	Lazići	
BBM	Big Bend	
BBN	Black Butte	
BBNM	San Benito	SBT
BBO	Besboro Island	
BBO1	Bothel	
BBOB	La Paz, Banderani	
BBOD	La Paz, Gloria	
BBOE	La Paz, Chanca	
BBOJ	La Paz, Jacaque	
BBOO	Buckleboo	
BBOR	Butler Butte	
BBOU	Bougnies	
BBP	Basco	
BB-PA	Bloomsburg	
BBR	Beebe Ranch	
BBRC	Big Bear Solar Observatory, Big Bear Lake	
BBRN	Bozburun-Marmaris	
BBS	Basel-Blauen	
BBSC	Beaumont Base	
BBSI	Bau Bau	
BBSP	Saint Philip	
BBSR	BB Station	
BBT	Barrage Ibn Batouta	
BBTK	Belbasi	
BBTN	Blue Bank Bayou	
BBTS	Babate	
BBU	Al Budayyi	
BBUT	Bumble Bee	
BBW	Black Birch	
BC01	Beaver Creek Array Site 1	
BC02	Beaver Creek Array Site 2	
BC03		BCA3
BC04	Beaver Creek Array Site 4	
BC05	Beaver Creek Array Site 5	
BC2	Big Chuckwalla Mountains 2	
BC3	Big Chuckawalla Mtns, Desert Center	
BC3*		BCA3
BCA	Borcka	
BCA3	Beaver Creek Array Site 3	BCAR
BCAM	Yenicaga	
BCAO	Bangui	
BCAR	Beaver Creek Array Beam Reference Point	
BCB	Big Creek Baldy	
BCBC	Bella Coola	
BCC	Colson Canyon	
BCC1	Chapelcross	
BCCC	Bear Creek Country Club, Murrieta	
BCCH	Brava--Cachaco	
BCD	Casitas Dam	
BCE	Book Cliffs East	
BCES	Court-Saint-Etienne	
BCG	Bois Riant Capesterre	
BCGM	Cienega Road	
BCH	Branch Mountain	
BCHC	Barbados, Cave Hill Campus	
BCHG	Becho	
BCHM	Black Canyon North	
BCI	Bajram Curri	
BCIP	Isla Barro Colorado	
BCK	Bucak	
BCKR	Birch Creek	
BCL	Casitas Lake	
BCLA	Clavier	
BCLQ	Boischatel	
BCM	Basin Creek	
BCN	Boulder City	
BCO	Cerro Blanco	RTCB
BCP	Baguio City	
BCPH	Baguio City Dairy Farm	
BCPM	Bancas Point	
BCR	Bucaramanga	
BCRT	Bacon Ridge	
BCS	Baptist College of Charleston	
BCS*	Brasilia Array	
BCSO	Bloom-Carroll	
BCSR	Castelsaraceno	
BCT	Brookfield	
BCU	Bear Canyon	
BCUT	Brigham City	
BCVB	Bac Can	
BCW	Bitter Crk WRge	
BCWM	Chews Ridge	
BCX	Boston College	
BCYI	Bear Canyon	
BCZ	Braida Crags	
BD-	Bedford	BD-PA

Code	*Station Name*	*Other*
BD01	Bergheim Laurentius Kirche	
BD02	Tagebau Bergheim	
BD03	Millendorf	
BD04	Gut Margarthenhoehe	
BD05	Hambach	
BD07	Roetschberg	
BD08	Hambach Funkstation	
BD09	Hochneukirch	
BD10	Pesch	
BD11	Borschemich	
BD12	Bourheim	
BD13	Immerath	
BD14	Kuckum	
BD15	Terra Nova	
BDA	Boulder Dam	
BDAR	Ethiopian Broadband Seismic Experiment	
BDAS	Al Bad'	
BDB	Bagneres-Bigorre	
BDBC	Bennett Dam	
BDC	Boulder	
BDF	Brasilia (W)	
BDFB	Brasilia	
BDG	Badger Mountain	
BDGH	Bhadarwah	
BDH	Highclere	
BDHA	Al Bayda'	
BDI	Bagni Di Lucca	
BDID	Brownlee Dam	
BDL	Dobcross Hall	
BDM	Black Diamond Mines Park, Antioch	
BDMQ	Boondooma Dam	
BDMTA	Bald Mountain Lookout Tower, Alberta	
BDN	Bodon	
BDNM	Bernardo	
BDO	Budoia	
BDP	Broad Pass	
BD-PA	Bedford	
BDR	Baidarnaya	
BDRM	Kayabasi	
BDRN	Badran	
BDRS	Dareh Seyedi	
BDRWA	Bhadarwah	
BDS	Barbados	
BDSL	Dessel	
BDT	Bhumibol Dam	
BDU	Big Dutch Hollow	
BDV	Budva	
BDW	Boulder	
BE-	Belleview	BE-FL
BE13	Bebedouro13	
BEA	Beatty	BTY
BEAC	Beacon	
BEAD	Nord Galaele Koma	
BEAW	Beaver Mountain	
BEB	Belem	
BEB22	Bebedouro	
BEBN	Eben Emael	
BEC	Bermuda--Columbia	
BECQ	Becancour	
BECU	Ecuador Network	
BED	Bald Eagle	
BEDE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
BEE	Al Areen	
BEEN	Beenleigh	
BE-FL	Belleview	
BEG	Bergheim	
BEH	Bench	
BEHE	Becsehely	
BEHM	Elkhorn Ranch	EKH
BEI	Bear River Range	
BEK	Belvue	
BEKR	Beckworth	
BEL	Belsk	
BEL3	Bella	
BELA	Belgrano 2	
BELAX	Ethiopian Broadband Seismic Experiment	
BELC	Belle Mtn. Joshua Tree, Twentynine Palms	
BELG	Belogornoye	
BELI	Belica	
BELL	Bellavista	
BELO	BELONIA	
BELQ	Belleterre	
BELV	Belvedere	
BEM	Bemidji	
BEMM	Emmet	EMT
BEMT	Mount Belmont	
BEN	Bermuda-Navy	
BEND	Bend	
BENE	Beatrice	
BENI	Universita' Del Sannio	
BENN	Benn Knob	
BENR	Benton	
BENWA	Benson Ranch	
BEO	Beograd	
BEP	Beppu	
BER	Bergen	
BERA	Berati	
BERA1	Berat	
BERE	Bereket-Mersin	
BERF	Bertagne	
BERG	Berg Lake	
BERGE	Lenzkirch (DE)	
BERI	Bernadia	BAD
BERL	Berlin (NY)	
BERN	Bernov	
BERNI	Berninapass	
BERR	Berezeni	
BERS	Berezovaya	
BERT	Berda	
BERU	Beregovo	
BES	Besancon	
BESB	Sao Joao Dos Patos	
BESE	Bessie Mountain	
BESP	Borongan	
BEST	Besiri	
BET	Bethel	
BETC	Betania	
BETH	Bethel	
BETM	Bethany	
BETV	Betijoque	
BEU	Beuren	
BEV	Beverley	
BEVG	Clark Hill Reservoir	
BEVT	Boeing Everett	
BEW	Beaufort West	
BEY	Berane	IVA
BEYL	Beirut	
BEYR	Belyy Ugol+	
BEYT	Beykoz	
BF-	Bakersfield	BF-CL
BFC	Buffalo Canyon	
BF-CL	Bakersfield	
BFD	Bellfield	
BFF	Buffalo-Larkin	
BFM	Bigfork	
BFMT	Birchfield Mountain	
BFO	Black Forest	
BFOD	Brorfelde Observatory, Denmark	
BFRD	Fardella	
BFS	Buffelsfontein	
BFSB	Bamfield	
BFSC	Mount Baldy Ranger Station	
BFSD	Buffelsfontein	
BFT	Belfast (SA)	
BFW	Baw Faw Mountain	
BFZ	Birch Farm	
BG-	Bangor	BG-ME
BG3	Lake Jocassee	
BGA	Mount Bagana	
BGB	Big Butte	
BGC	Bolinger Road	
BGCA	Bogoin	
BGD	Bogdanovka	
BGES	Gesves	
BGF	Bois d'Agland	
BGG	Burgeitz	
BGH	Bear Gulch	
BGI	Bengkulu	
BGIO	Bar Giyyora	
BGK	Belogorka	
BGK2	Belogorka 2	
BGKT	Bogazkoy	
BGKY	Bowling Green	
BGL	Barrier Glacier	
BGLC	Bering Glacier BLM Camp	
BGLD	Berchtesgaden	
BGLV	Boslevi	
BGM	Big Mountain	
BG-ME	Bangor	
BGMR	Bucharest-Geological Museum	
BGMT	Barton Gulch	
BGN	Big Creek	
BGNE	Belgrade	
BGO	Bowling Green	
BGOL	Bingol	
BGP	Bagra	
BGR	Bangor (NY)	
BGRM	Barrier Glacier Two	
BGRQ	Glenroy	
BGSB	Baguashan	
BGSO	Bowling Green State University	
BGT	Bolshoye Goloustnoye	
BGU	Big Grassy Mountain	
BGUS	Bergheim	
BGV	Bac-Giang	
BGY	Belgrade	
BGZ	Barguzin	
BH-	Burwash Landing	BH-YK
BHA	Broken Hill	
BHAC	Bhachau	
BHAR	Bharisain	
BHAT	Bhatsa	
BHB	Bricherasio	
BHBD	Braunhartsberg	
BHC	Bohunice	
BHD	Baghdad	
BHDI	Bhandari	
BHE	Schloss Buerresheim	
BHG	Bad Reichenhall	
BHGR	Bahadurgarh	
BHH	Howats Hill	
BHHZ	Black Hill Station	
BHI	Bertha Hill	
BHJ	Bhuj	
BHK	Bhakra	
BHKY	Bowman Hall	
BHL	Bhannes	
BHM	Barham	
BHMT	Big Hole Peak	
BHO	Bethel	
BHOF	Ruhr-University Bochum -- Hof Stiepel	
BHOK	Bomura	
BHOU	Houvegnez	
BHP	Balboa Heights	
BHPC	Baldwin Hills Oil	
BHPL	Bhopal	
BHPR	Bishop	
BHRA	Bahrah	
BHRD	Bharudia	
BHRM	Hodges Ranch	
BHS	Barnard House	
BHSM	Hastings State Park	
BHSO	Botkins High School	
BHT	Blowhole	
BHU	Blowhard Mountain	
BHUJ	Bhuj	BHJ
BHUT	Beaver	
BHV	Bhavnagar	
BHW	Baring Head	
BHXE	Hunxe	
BH-YK	Burwash Landing	
BI-	Big Stone Gap	BI-VA
BI02	San Fabi˜¡n de Alico	
BI03	Tigo	
BI04	Isla Mocha	
BI1	Barter Island	
BI2	Barter Island	
BI3	Barter Island	
BI4	Barter Island	
BIA	Bitola	
BIAC		DIAC
BIAL	Bialla	
BIB	Bowen Island	
BIBA	Brigerbad	
BIBL	Bibli˜¡n	
BIBN	Bibbiana	
BID	Bidston	
BIDA	Albida	
BIDO	Bidbid	
BIDS	Bi'r al Bayda'	
BIE	Brione	
BIG	Big Mountain	
BIGH	Upper Bighouse, Forsinard	
BIHA	Biharamulo	
BIL2	Estacion Bilbao	
BILB	Tungurahua volcano	
BILE	Bilecik/Merkez-Dede RL	
BILI	Bilibino, Chukotka	
BILL	Bilibino	
BIM	Bigot	
BIN	Binsa	
BING	Binghamton	
BINT	Bingol	
BINY	Binghamton	
BIO	Biorka	
BIP	Bislig	
BIPH	Bislig	
BIPS	Buchanan	
BIR	Birlad	
BIRA	Biratnagar	
BIRD	Birdtown, Kershaw	
BIRH	Ethiopian Broadband Seismic Experiment	
BIRU	Birjand	
BIRV	Birongo	
BIS	Bismark Peak	
BISC	BISOCA	
BISH	Bishah	
BISR	Bishrakh	
BISRR	Bisoca	
BISS	Bistriski jarek	
BIT	B. Ibn Batouta	BBT
BIU	Bingham Canyon	
BI-VA	Big Stone Gap	
BIW	Bindweide	
BIX	Bixby	
BIZ	Bicaz	
BJA	Jaww	
BJCM	Johnson Can.	JHC
BJDM	Burrinjuck Dam	
BJEM	Burrinjuck	
BJI	Beijing	
BJI2	Beijing	
BJII	Banjamegara	
BJMA	Bojnurd	
BJO	Bjornoya	
BJO1	Bjornoya	
BJOM	Mount Johnson	
BJR1	Bachatsky 1, Kuzbass, Russia	
BJR2	Bachatsky-2, Kuzbass, Russia	
BJR4	Bachatsky-4, Kuzbass, Russia	
BJRD	Bojnu@18rd	
BJT	Baijiatuau	
BJU	Chiapas	
BJUU	Bjuv	
BK-	Bald Knob	BK-AR
BKA	Kennedy	
BK-AR	Bald Knob	
BKB	Balikpapan	
BKB2	Balikpapan	
BKBA	Bukoba	
BKC	Brookwood Reservoir	
BKCOR	Black Crater	
BKE	Bekescsaba	
BKG	Blockade Glacier	
BKHT	Bunker Hill	
BKI	Bering	
BKJ	Big Koniuji Island	
BKL	Bakel	
BKLB	Ruhr-University Bochum--Klosterbusch Mine	
BKLT	Bekalta	
BKM	Butte a Klehm	
BKN	Blacknest	
BKNI	Bangkinang	
BKO	Bokosso	
BKOA	Assam	
BKR	Bakuriani	
BKRC	Baker	
BKRG	Bakuriani	
BKS	Berkeley--Byerly	
BKSI	Bulukumba	
BKT	Bakacak	
BKU	Beaver Lake Mountains	
BKZ	Black Stump Fm	
BL-	Beckley	BL-WV
BL1	Borgo	BSL
BL67	Building 67, Lawrence Berkeley Lab, Berkeley, CA	
BL88	Building 88, Lawrence Berkeley Lab, Berkeley, CA	
BLA	Blacksburg	
BLAC	Blackrock camp	
BLAF	les Blancs	
BLBC	Blue River	
BLBQ	Baie-St-Paul	
BLC	Baker Lake	
BLCB	Balcova	
BLCC	Black Canyon	
BLCH	La Chartreuse	
BLCS	Bulochka	
BLD	Baljuvan	
BLDC	Black Mountain	
BLDU	Ballidu	
BLE	Bellville	
BLEU	Blekinge	
BLF	Bloemfontein	
BLG	Laguna Peak, Port Hueneme	
BLGA	Beluga	
BLGI	Bet Lehem HaGelilit	
BLGM	Bulgan	
BLH	Bald Hill	
BLHA	Black Hill	
BLHR	Bucharest-Stefan cel Mare Str.	
BLI	Bleialf	
BLIS	Bitlis-Merkez	
BLIT	Baltah	
BLJ	Bijeljina	
BLJI	Banyuglugur	
BLJS	Baljurashi	
BLK	Black Butte	
BLKB	Belogradchik	
BLKC	Black Mountain	
BLKT	Balakot	
BLL	Bellingham	
BLLA	Bellaria	
BLLM	Bellamira	
BLLO	Bulolo	
BLM	Blue Mountain	BMT
BLM*	Bell Mountain	
BLMT	Blacktail Mountain	
BLMY	Blum	
BLN	Blyn Mountain	
BLNT	Belen	
BLO	Bloomington	
BLP	Lompoc	
BLPI	Bilaspur	
BLQ	Beylaqan	
BLR	Black Rapids	
BLRM	Lewis Ranch	
BLRR	Bol'shaya Rechka	
BLS	Blasjo	
BLS1	Blasjo	
BLS2	Blasjo	
BLS3	Blasjo	
BLS5	Blasjo	
BLSD	Baie du Lac Sali	
BLSI	Bandar Lampung	
BLSP	Bilaspur	
BLSR	Buluus	
BLSS	Belie Skali	
BLT	Belted Range	
BLTW	Bickleton	
BLU	Blue Ridge	
BLV	Bailadores	
BLVT	Baltimore	
BLW	Big Hill	
BL-WV	Beckley	
BLWY	Bulawayo	
BLY	Banja Luka	
BLYC	Blythe	
BLZ	Bolzano	
BM-	Balmorhea	BM-TX
BM01	Burnt Mountain Array Site 1	
BM02	Burnt Mountain Array Site 2	
BM03	Burnt Mountain Array Site 3	BM3
BM04	Burnt Mountain Array Site 4	
BM05	Burnt Mountain Array Site 5	BMAR
BM3	Burnt Mountain Array Site 3	
BMA	Barra Mansa	
BMAR	Burnt Mountain Array Beam Reference Point	
BMAS	Trigal station	
BMAT	Maratea	
BMB	Barrage Mohamed Ben Abdellah	
BMBC	Bull Mountain	
BMCM	McPhails Peak	
BMD	Beni Messoud	
BMDN	Meydan	
BME	Barrage Mansour Eddahbi	
BMG	Bucaramanga	
BMHM	Mount Harlan	
BMI	Bomdila	
BMK	Barrage El Makhazine	
BMK*		BMKM
BMKM	Barrage Mohammed V	
BMKR	Bomnak	
BMKS	Bomnak	
BML	Blue Mountain Lake	
BMM	Big Maria Mountains	
BMN	Battle Mountain	
BMNI	Bima	
BMNM	Bear Mountains	
BMNS	Besmoynak	
BMO	Blue Mountains Array	
BMO1	UHE Belo Monte	
BMO2	UHE Belo Monte	
BMOL	Mol	
BMOR	Cotopaxi Volcano	
BMR	Baia Mare	
BMRD	Maredsous	
BMRM	Bremner River	
BMRO	Meriville Lake	
BMRR	Black Mountain	
BMS	Big Muddy Lake	
BMSB	Bamfield Marine Station	
BMSH	Bir Mashi	
BMSM	Mercy Hot Springs	
BMT	Blue Mountain	
BMT*	Black Mountain	
BMTC	Bear Mountain	
BMTN	Black Mountain	
BM-TX	Balmorhea	
BMU	Muharraq	
BMUT	Black Mountain	
BMV	Son La	
BMW	Boistfort Mountain	
BMY	Bingley Moor	
BN1H	Brisbane Hard Rock	
BN2S	Brisbane 2 Soft	
BNA	New Abbey	
BNAB	Bonilla	
BNALP	Bannalp	
BNAS	Cotopaxi Volcano	
BNB	Barry Inlet	
BNC	Bambui	
BND	Bandung	
BNDI	Bandanaira	
BNDS	Bandar-Abbas	
BNE	Burnie High School	
BNG	Bangui	
BNGB	Bing¨¶l	
BNGL	BINGOL	
BNGR	Bahawalnagar	
BNH	Berlin	
BNI	Bardonecchia	
BNJ	Bonny Gate	
BNKB	Banks Island	
BNLO	Ben Lomond (Santa Cruz Mountains)	
BNM	Barren Site	
BNN	Bunyan	
BNON	Benoni	

Code	Station Name	Other
BNP	Banawang	
BNPN	Boundary Peak	
BNR	BHIKNUR	
BNS	Bensberg	
BNSI	Bone	
BNT	Bandirma	
BNV	Benevento	
BNY	Binghamton	
BO-	Brewton	BO-AL
BO01	Tunca	
BO02	Sierra Bellavista	
BO03	Pichilemu	
BO1	Boulder	
BOA	Boaco	
BOA1	Boaco	
BOAB	BOACO BROADBAND	
BOAC	Boac	
BO-AL	Brewton	
BOAV	Boa Vista	
BOB	Bobbio (Coli)	
BOBI	B¨¶bikon, Wasserreservoir Allmend, AG	
BOC	Bochum	
BOCO	Bogota	
BOD	Bodaibo	
BODR	Bodie	
BODT	Bodrum	
BODY	Near Bada	
BOF	Bonneval	
BOG	Bogota	
BOH	Bohocortia	
BOI	Boisen	
BOIN	Boiestown	
BOJ	Boujaaouane	
BOJS	Bojanci	
BOK	Bokaro	
BOKO	BOKO	
BOKR	Bokaro	BOK
BOL	Bologna	
BOLM	Sugar Bowl	
BOLP	Bolinao	
BOLS	Boljevac	
BOLV	Bolvadin	
BOM	Bombay	
BON	Bonds Corner	
BON1	Bonao	
BONI	La Bonita	
BONIF	Phare de Pertusato	
BONR	Boundary Peak	
BOO	Bordano	
BOOC	South Base Booster	
BOOM	Boomskoye uschel'e	
BOON	Boondooma	
BOPT	Opiter	
BOQS	Boqueron	
BOQSS		
BOR	Borzhomi	
BORA	Eskisehir	
BORC	Borrego Springs	
BORE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
BORG	Borgarnes	
BORI	Bordano	BOO
BORM	Bormio	
BORS	Borseda	
BORU	Boraas	
BOS	Bosque Alegre	
BOSA	Boshof	
BOSB	Boseong-gun	
BOSC	San Juan Bosco	
BOSI	Bolzano	
BOSL	Borgo San Lorenzo	
BOSS	Bosilegrad	
BOST	Ostende	
BOT	Bacolet	
BOTM	Botticino Mattina	
BOTS	Marmara Ereglisi-Tekirdag	
BOTT	Botticino	
BOTV	Botiquin	
BOU	Boulder	
BOURR	Bourrignon	
BOV	Bogong Mts	
BOVS	Bovan	
BOW	Bowman	
BOX	Box Canyon	
BOXN	Box Lake	
BOY	Boyalica	
BOYA	Sinop/Boyabat-Salar	
BOYT	Boyabat	
BOZ	Bozeman (W)	
BOZC	Bozcaada	
BOZD	Bozcaada-Canakkale	
BOZY	Bozyazi-Mersin	
BP-	Bishop	BP-CL
BPA	Boggy Peak	
BPAT	Tungurahua Volcano	
BPAW	Bear Paw Mtn.	
BPBC	Brooks Peninsula	
BPBCA	Veniaminof	
BPCB	Bare Point	
BP-CL	Bishop	
BPCM	Pine Canyon	
BPCNC	Pine Canyon	
BPFM	Pfieffer Point	
BPI	Johannesberg	
BPIL	Belle Prairie	
BPIM	Pinnacles	
BPK	Black Peak	
BPM	Bucksport	
BPMT	Black Pine Ridge	
BPO	Bald Peter	
BPOM	Post Ranch	
BPPM	Pinyon Peak	
BPRM	Ponciano Ridge	
BPT	Bridgeport	
BPU	Bountiful Peak	
BQA	Beqa	
BQ-AK	Bethel	
BQB	Bob Quinn Lake	
BR-	Berlin (Penn)	BR-PA
BR00	Belbasi Site	BRAR
BR01	Belbasi Array Site 1	
BR02	Belbasi Array Site 2	
BR03	Belbasi Array Site 3	
BR04	Belbasi Array Site 4	
BR05	Belbasi Array Site 5	
BR06	Belbasi Array Site 6	
BR1	Brisbane hardrock	
BR101	Keskin Array Site 101	
BR102	Keskin Array Site 102	
BR103	Keskin Array Site 103	
BR104	Keskin Array Site 104	
BR105	Keskin Array Site 105	
BR106	Keskin Array Site 106	
BR131	Keskin Array Site 131	BRTR
BR2	Brisbane softrock	
BR231	Keskin MP Array Site 231	BRMAR
BR232	Keskin MP Array Site 232	
BR233	Keskin MP Array Site 233	
BR234	Keskin MP Array Site 234	
BR235	Keskin MP Array Site 235	
BR236	Keskin MP Array Site 236	
BR237	Keskin MP Array Site 237	
BR31	Belbasi Array Site 31	BRAR
BRA	Bratislava	
BRAG	Branistea	
BRAL	Brewton	
BRAN	Las Pilas	
BRANT	Les Verrieres	
BRAR	Belbasi Array Beam Reference Point	
BRAS	Brasopolis	
BRAT	Ballarat	
BRB	Barbados	
BRBA	Barentsburg A	
BRBB	Barentsburg B	
BRBC	Blue Ridge Broadcasting Company	
BRBR	Barbar	
BRC	Barley Canyon	
BRCH	BAHRAICH	
BRCI	Bahraich	
BRCN	Bracie Corner	
BRCO	Bruce Peninsula	
BRCR	Berchikul'	
BRD	Bordesti	
BRDA	Ba@14rda@14	
BRDG	Blue Ridge	
BRDH	Bariadhala	
BRDR	BURDUR-Merkez	
BRE	Wroclaw	
BREC	Barre Substation	
BREF	Cotopaxi Volcano	
BREM	Bremgarten	
BRES	Bressanone	
BRET	Bretten	
BREU	Bredtraesk	
BRF	Ar Rifa	
BRG	Berggiesshubel	
BRGA	Burgazada-Istanbul	
BRGC	Borrego Mountain	
BRGM	Braggadocio	
BRGNA	Bergen	
BRGZ	Burgazada	
BRH	Birch Hill	
BRH1	Barahona	
BRHE	Rheinberg	
BRHS	Bolshoi Rechka	
BRI	Brig	
BRIB	Briones	
BRIE	Brienza	
BRIS	BRISIGHELLA	
BRIU	Brid	
BRIV	Barinas	
BRJ	Black River	
BRJN	Brijuni	
BRK	Berkeley--Haviland	
BRKS	Brookside Elementary School	
BRL	Berlin--Free University	
BRLDA	Berland Lookout Tower, Alberta	
BRLK	Bradley Lake	
BRLS	Borolday	
BRM	Bernie	
BRMAR	Keskin MP Array Beam Reference Point	
BRMM	Rolling Bench Mark	
BRMO	Bormio	
BRN	Berlin	
BRNE	Bradley Lake NE	
BRNI	Bet Oren	
BRNJ	Basking Ridge	
BRNL	Berlin--Lankwitz	
BRNM	Bernie	
BRNS	Bernies	
BRNW	Bradley Lake NW	
BRNY	Black Rk. Forest	
BRO	Bare Mountain	
BROG	Barisakho	
BROM	Bains de Bromines	
BROR	Big Rock Lookout	
BRP	Bottle Rock Power	
BR-PA	Berlin	
BRPK	Brown Peak	
BRPO	Bonnechere River Park	
BRQR	Ronqui˜ore	
BRR	Berryman	
BRRC	Barranca, Santander	
BRS	Brisbane	
BRSB	Brisbane	
BRSD	Miller	
BRSE	Bradley Lake SE	
BRSN	Barisano	
BRSW	Bradley Lake SW	
BRT	Bari-Castellana	
BRTC	Bertell Ranch	
BRTN	Brown Mountain	
BRTR	Keskin Array Beam Reference Point	
BRU	Baru	
BRU2	Volcan	
BRUG	Bruguera	
BRUN	Tungurahua Volcano	
BRUT	Bromley	
BRV	Barrow	
BRVK	Borovoye	
BRVM	Little Rabbit V.	LRV
BRVW	Black Rock Valley	
BRW	Barrow	
BRWK	Brunswick	
BRY	Bratogost	
BRYW	Bryant College	
BRZ	Borland Lodge	
BRZS	Berezniki	
BS01	CO. Balc˚‡n	
BS02	Patallajta	
BS03	Mojotorillo	
BS04	Villa Nueva	
BS05	Cuyupaya	
BS06	Camiri	
BS07	San Felipe	
BS08	Valle Grande	
BS09	Huarina	
BS10	CO. Tuti	
BSA	Byrd (S.R.I.)	BY1
BSBM	Swanson's Bluff	
BSC	Santa Cruz Island	
BSC3	Bisaccia	
BSCB	Bom Sucesso	
BSCM	Stone Canyon	
BSCP	Brocks Farm	
BSD	Bornholm Skovbrynet	
BSD*	Akirkeby	BSD
BSE	Boise	
BSEG	Bad Segeberg	
BSF	Ballon Servance	
BSFB	Barra de Sao Francisco	
BSFP	Boeing Fire Protection	
BSGM	Shirttail Gulch	SHG
BSHA	Ruhr-University Bochum--Staatshockbauamt	
BSHR	Al Beshri	
BSI	Banda Aceh	
BSK	Brimstone Hill	
BSK4	Belie Skalie	
BSKQ	Steenkerk	
BSL	Borgo	
BSLM	Silva Ranch	
BSLQ	Bruslee	
BSM	San Miguel Island	
BSM1	Besham	
BS-MA	Billings	
BSMM	Soledad Mission	
BSMT	Bassoo Peak	
BSN	San Nicolas Island	
BSO	Bsor	
BSO1	Boso 1	
BSO2	Boso 2	
BSO3	Boso 3	
BSO4	Boso 4	
BSP	Bush Stream	
BSPQ	Baie-St-Paul	
BSPT	Big Springs	
BSR	Basra	
BSRM	Salinas Radio Site	
BSRN	Basiran	
BSS	Baronissi	
BSSI	Bau Bau, Buton	
BSSO	Busso	
BST	Brest	
BSTF	la Bastide-des-Jourdans	
BSTI	Sart Tilman	
BSTK	Bystrovka, Novosibirskaya Oblast', Russia	
BSTP	Nigde	
BSTR	Bucharest-Scientist's House	
BSUT	Blindstream Canyon, Hanna	
BSWZ	Blackbirch Station	
BSY	Bisya	
BSYO	Bisya	
BSZ	Bushy Park	
BSZH	Besenysz˚¶g	
BT-	Bates	BT-OR
BTA	Talkin	
BTAM	Cotopaxi Volcano	
BTAS	Taskesti	
BTB	Buttle Lake	
BTC	Butembo	
BTCC	Brunts Corner	
BTCH	Batrach	
BTCO	Belmont College, St. Clairsville	
BTDF	Bukit Timah Dairy	
BTE	Batoke	
BTEZ	Ruhr-University Bochum--Technical Center	
BTG	Basse Terre	
BTGS	Batagay	
BTH	Betharram	
BTHS		
BTHT	Jabal bu Thady	
BTI	Bat Shelomo	
BTIN	Bart˜–n	
BTK	Batken	
BTKR	Batakoyurt	
BTL	Butler Peak	
BTLC	Betulia, Santander	
BTLK	Bitlis	
BTLR	Botlikh	
BTLS	Baital	
BTM	Bintulu	
BTMB	Babushkin	
BTMN	Batman	
BTMR	Bucharest-Geotec Company	
BTMT	Batman	
BTN	Butuan	
BTNG	Baratang	
BTNI	Buton	
BTNK	Botanikuri	
BTNL	Ternell	
BTO	Baotou	
BTOK	Tokmak	
BT-OR	Bates	
BTP	Batelco	
BTPC	Burnt Peak	
BTR	Butare	
BTRC	Tricarico	
BTU	Barney Top	
BTW	Bitterwater Creek	
BTY	Beatty	
BU-	Buckingham	BU-QB
BUA	Buia	
BUAI	Buenos Aires	
BUAY	Buenos Aires	
BUB	Buchberg	
BUC	Bucharest	
BUC1	Bucharest	
BUC2	Bucharest	BUC1
BUCA	Burdur/Bucak-G˚…ndo˜du	
BUCF	Bucures@17ti--IRSA	
BUCH	Bad Urach	
BUCK	Buck Mountain	
BUCM	Buckrabanyule	
BUCN	Buchan	
BUD	Budapest	
BUDM	Budderoo	
BUE	Buenavista	
BUEV	Buena Vista	
BUF	Buffalo	
BUFB	Buffelsbos	
BUG	Bochum--University	
BUGC	Buga	
BUGS	Bugetsay	
BUH	Buhlerhohe	
BUHA	Bal˜–kesir/Burhaniye-Dutluca	
BUI	Burke	
BUII	Buia	BUA
BUJR	Buynaksk	
BUK	413	
BUKA	Buka	
BUKO	Buck Lake	
BUKP	Musuan	
BUL	Bulawayo	
BULB	Ulba Tungurahua	
BULE	Bulengo	
BULG	Bulgheria - Camerota	
BULI	Ruhr-University Bochum - Language Institute	
BULL	Bull Run Dam	
BULN	Bullion Camp, Hudson Bay	
BULU	Kimbe	
BUM	Brajici-Budva	
BUN	Bunnythorpe	
BUNC	Butner	
BUNG	Bungee Jump	
BUNI	Buntu Taipa	
BUO	Burlington	
BUOR	Burton Butte	
BU-QB	Buckingham	
BUR	Burlington	
BUR01	Bucovina Ar. Site	
BUR02	Bucovina Ar. Site	
BUR03	Bucovina Ar. Site	
BUR04	Bucovina Ar. Site	
BUR05	Bucovina Ar. Site	
BUR06	Bucovina Ar. Site	
BUR07	Bucovina Ar. Site	
BUR08	Bucovina Ar. Site	
BUR09	Bucovina Ar. Site	
BUR32	BURAR	
BUR33	BURAR	
BURAR	Bucovina Array	
BURD	Burdekin Lookout	
BURJ	Burma	
BURN	Burns	
BURU	Burvik	
BUS	Buena Vista	
BUSP	Coron	
BUT	Butte	
BUTA	Ethiopian Broadband Seismic Experiment	
BUTB	Butedale	
BUTP	Butuan	
BUTX	Baylor University	
BUV	Buchan	
BUW	Bucklebury West	
BUWY	Burn	
BUY	Buyukada	
BUYA	Buyukada-Istanbul	
BUZR	Buzau	
BV-	Belleville	BV-PA
BV1	Bath County 1	
BV2	Bath County 2	
BV3	Bath County 3	
BV4	Bath County 4	
BVA	Buena Vista	
BVA0	Borovoye Array Site A0	
BVA1	Borovoye Array Site A1	
BVA2	Borovoye Array Site A2	
BVA3	Borovoye Array Site A3	
BVA4	Borovoye Array Site A4	
BVAR	Borovoye Array Beam Reference Point	
BVB5	Borovoye Array Site B5	
BVB6	Borovoye Array Site B6	
BVB7	Borovoye Array Site B7	
BVB8	Borovoye Array Site B8	
BVB9	Borovoye Array Site B9	
BVC	Bear Valley Observatory	NOLM
BVC2	Cotopaxi Volcano	
BVCR	Bucharest-Old Court	
BVCY	Beaver Creek	
BVD	Bellevue State Park	
BVG	Bouganvilia	
BVH	Beverly Hills	
BVIG	Viggiano	
BVIL	Belleville	
BVK	Beaver Lake	
BVL	Bear Valley	
BVLM	Bear Valley	BVL
BVM	Bellevue	
BVOC	Bila Voda	
BV-PA	Belleville	
BVR	Beaver	
BVRS	Bavra	
BVT	Borgo Val di Taro	
BVTM	Michoacan	
BVV	Ba Vi	
BVW	Beverly	
BVYM	Vineyard	
BW-	Blewett	BW-WA
BW06	Boulder Array Site 6	
BW2S	Bowen Soft Rock	
BWA	Boorowa	
BWD	Brandywine Creek State Park	
BWH	Wardlaw	
BWI	Barbuda	
BWJI	Bawean	
BWLO	Walkerton	
BWN	Browne	
BWNR	Bhubaneshwar	
BWP	Baguio Weather Station	
BWTI	Baumata	
BW-WA	Blewett	
BWZ	Berwen	
BX-	Blanding	BX-UT
BX-UT	Blanding	
BY1	Byrd--Stanford Research Institute	

Code	*Station Name*	*Other*
BY2	Byrd--Stanford Research Institute	
BY3	Byrd--Stanford Research Institute	
BYA	Byrd--Stanford Research Institute	
BYAR	Belyy Yar	
BYB	Berrybush	
BYBT	Boyabat	
BYD	Bredaryd	
BY-IO	Bloomfield	
BYJI	Banyuwangi	
BYL	Byron's Ledge	
BYN	Bayano	
BYO	Bayan-Olgiy	
BYR	Byrd	
BYRJ	Bayer	
BYT	Bytom	
BYU	Brigham Young University	
BYX	Boyer Ranch	
BYXU	Byxelkrok	
BYZN	Byzanz	
BZ-	Buckhannon	BZ-WV
BZE	Bozeman	
BZER	Hlnxe	
BZEV	Zevekote	
BZGR	Bezymyannyi-Griva	
BZK	Bozkurt	
BZM	Bozeman	
BZMR	Bezymyannaya	
BZMS	Bezymyanka	
BZMT	Bozeman Pass	
BZN	Bogi-Zagon	
BZNA	Buzz No.'s Place	
BZRK	Zereshkeh	
BZS	Buzias	
BZWR	Bezymyannyi-West	
BZ-WV	Buckhannon	
C004	Frazione Salia	
C01	C01	
C02	C02	
C03	C03	
C03A	Quillayute Airport, Forks	
C04	C04	
C04A	Brinnon	
C05	C05	
C055	Cottonwood Avenue, Hayward	
C05A	Tolt Reservoir	
C06	C06	
C06A	Tall Timber Ranch, Leavenworth	
C06D	Leavenworth	
C07	C07	
C07A	Waterville	
C08	C08	
C08A	Higginbotham Farm, Almira	
C09A	Chrisman Ranch, Davenport	
C10A	Spilker Farm, Colbert	
C11	C11	
C11A	Tepee Creek (NFS), Magee	
C12	C12	
C12A	Trout Creek	
C12B	Naegeli Ranch, Trout Creek	
C13	C13	
C13A	Hot Springs	
C14	C14	
C14A	Swan Lake	
C15A	Salmond Ranch, Choteau	
C16	C16	
C16A	Fuhringer Ranch, Dutton	
C17A	Wharram Farm, Highwood	
C18	C18	
C19A	Slack Wire Ranch, Winifred	
C1SC	The Citadel Site 1	
C20	C20	
C20A	Veseth Ranch, Zortman	
C21	C21	
C21A	Desert Coulee Ranch, Glasgow	
C22	C22	
C22A	Vida	
C23	C23	
C23A	Lambert	
C24A	Savage	
C24MA	Colegio 24 de Mayo	
C25A	Freed Ranch, Watford	
C26A	Wahner Farm, Parshall	
C27A	Sayler Ranch, Douglas	
C28A	Hausauer Farms, Kief	
C2SC	The Citadel Site 2	
C30A	Mose, Pekin	
C31A	Landman Farms, Northwood	
C32A	Crookston	
C33A	Trail	
C34A	RKJ Ranch, Bemidji	
C35A	Jirik Farms, Max	
C36A	Pine Crest Farm, Angora	
C36M	Paulatuk	
C37A	Embarrass	
C38A	Sawbill Land. Superior Nat. Forest USFS	
C39A	Grand Marais	
C40A	Isle Royale National Park	
CA-	Caryville	CA-TN
CA02	CA02	
CA03	CA03	
CA04	CA04	
CA05	CA05	
CA06	CA06	
CA07	CA07	
CA08	CA08	
CA09	CA09	
CA10	CA10	
CA11	CA11	
CA12	CA12	
CA13	CA13	
CA15	CA15	
CA16	CA16	
CA17	CA17	
CA18	CA18	
CA19	CA19	
CA2	Cagliari Serpeddi	CGL
CA20	CA20	
CAA	Chanaral	
CAB	Cabramurra	
CABA	Caballo Blanco	
CABF	La Chapelle	
CABP	Cabo Pasado	
CABS	Djebel Ababsia	ABSA
CAC	Calama	
CACB	Caconde	
CACC	Caltech Cellar	
CACH	El Canelo	
CACM	Antioch	
CAD	Cady Mountains	
CADA	Capodarco di Fermo	
CADI	Tunel del Cadi	
CADM	Anderson Res.	ADR
CADS	C@19adrg	
CAE	Caneva	
CAEH	'Ain El Ouahch	
CAEL	Denizli/˜ameli-Kal˜–nkoz	
CAF	Calviac	
CAFE	Carife	
CAFI	Castiglion Fiorentino	
CAFR	Castel Frentano	
CAFV	EL CAFE	
CAG	Caguas	
CAGN	Cagnes-sur-Mer	
CAGR	Agira	
CAGT	Chagyl	
CAH	Castle Hill	
CAHC	Cahuilla Valley	
CAHL	Cahill	
CAHU	Cacacuatique	
CAI	Caico	
CAIG	El Cayaco	
CAIM	Angel Island	AGC
CAIV	Caiguire	
CAL	Calcutta	
CALA	Caldeira	
CALB	Calabasas	
CALC	California City	
CALF	Calern	
CALI	Calice al Cornoviglio	
CALM	Calaveras Res.	CVR
CALN	Calern	
CALP	Taal Volcano	
CALV	Calvario	
CAM	Cambridge	
CAM01	Campos-RJ	
CAM1	Macae	
CAM2	Attock	
CAM3	Guarapari	
CAM4	Nova Friburgo	
CAMA	Camapuan	
CAMB	Cambridge (NY)	
CAMC	Camarillo Hills	
CAME	Cameli-Denizli	
CAMI	Rancho Maria	
CAMM	Veracruz	
CAMN	Camsell Lake	
CAMP	Campotosto	
CAMV	Campeare	
CAN	Canberra	
CAN1	UHE Cana Brava	
CAN3	Cana Brava	
CANA	Caviahue	
CANB	Canakkale	
CAND	Candarli	
CANF	Canfranc	
CANG	Candelarita	
CANN	Canning Dam	
CANR	Candelaria	
CANT	Cankiri	
CANV	Cerro Antonio	
CANY	Canisius	BUF
CAO	Cobano	
CAOM	Arnold Ranch	ARN
CAOV	Caicara del Orinoco	
CAP	Capodimonte	
CAPA	Cerignola FG	
CAPC	Capurgana	
CAPCA	Capra Ranch	
CAPN	Captain Cook Nikiski	
CAPR	Capriolo	
CAPU	Utah State Capitol	
CAPV	Capacho	
CAR	Caracas	
CAR1	CAROLEI	
CARA	Val dAran	
CARB	Mount Cartier	
CARC	Carrizo Plain	
CARD	Cardoso	
CARE	Lago del Careser	
CARF	Carcanieres	
CARL	Carlisle	
CARM	Carmen	
CARO	Carolei	
CARS	Cars	
CART	Cartagena	
CARV	Caracas	
CAS	Casamari	
CAS01	Occhiobello (RO)	
CAS02	Vigarano Mainarda (FE)	
CAS03	Settepolesini, Bondeno (FE)	
CAS04	Vigarano Pieve (FE) fraz. Diamantina	
CAS05	San Carlo, Sant'Agostino (FE)	
CAS06	Vigarano Mainarda (FE)	
CAS07	S.Agostino (FE)	
CAS08	Chiesa Nuova, Poggio Renatico (FE)	
CASA	Carruther's Hill	
CASC	Dorado de Cascales	
CASI	Castillo	
CASL	Cascajal	
CASM	Ain Smara	
CASO	Castillo	
CASP	Castiglione della Pescaia	
CASR	Casa Diablo Mountain	
CAST	Castle Rocks	
CASW	Cayambe	
CASY	Casey	
CAT	Catania	
CATA	Catuaro Arriba	
CATE	Catamayo	
CATM	Catron	
CA-TN	Caryville	
CATZ	Catanzaro	
CAUB	Caruaru	
CAUP	Cauayan	
CAUQ	Cauquenes	
CAV	Cavalese	
CAVC	Cave Mountain	
CAVE	Cavezzo	
CAVI	Cavuskoy	
CAVK	Edirne/Enez-Cavuskoy	
CAVM	Cavillon	
CAVN	Les Avellanes	
CAVT	Castelvetrano	
CAVTT	Cavuskoy	
CAW	Cannon Point	
CAY	Cayenne	
CAYA	Cayambe	
CAYR	Refugio Cayambe	
CAZ	Castlepoint	
CAZE	Cazenovia	
CB01	Cambridge Bay Array Site 1	
CB02	Cambridge Bay Array Site 2	
CB02E	CB02E	
CB03	Cambridge Bay Array Site 3	
CB03E	CB03E	
CB04	Cambridge Bay Array Site 4	
CB04B	CB04B	
CB05	Cambridge Bay Array Site 5	
CB05A	CB05A	
CB05B	CB05B	
CB06	Cambridge Bay Array Site 6	
CB07	Cambridge Bay Array Site 7	
CB07E	CB07E	
CB08	Cambridge Bay Array Site 8	
CB09	Cambridge Bay Array Site 9	
CB09E	CB09E	
CB1	Chesbro Res. 1	ADR
CB10	Mt Hamilton Road	MHR
CB11	Cambridge Bay Array Site 11	
CB11E	CB11E	
CB12	Cambridge Bay Array Site 12	
CB13	Cambridge Bay Array Site 13	
CB14	Cambridge Bay Array Site 14	
CB15	Cambridge Bay Array Site 15	
CB16	Cambridge Bay Array Site 16	
CB17	Cambridge Bay Array Site 17	
CB18	Cambridge Bay Array Site 18	
CB19	Cambridge Bay Array Site 19	
CB2	Calero Reservoir	
CB3	Chesbro Res. 3	COE
CB31	Cambridge Bay Array Site 31	CBAR
CB32	Cambridge Bay Array Site 32	
CB33	Cambridge Bay Array Site 33	
CB34	Cambridge Bay Array Site 34	
CB35	Cambridge Bay Array Site 35	
CB4	Chesbro Res. 4	ARN
CB5	Chesbro Res. 5	SVC
CB6	Chesbro Res. 6	CVR
CB7	Poverty Ridge	
CB8	Chesbro Res. 8	
CB9	Mines Road	MNR
CBA	Cold Bay	
CBAR	Cambridge Bay Array Beam Reference Point	
CBB	Campbell River	
CBBF	Combe Brimond	
CBC	Chamberlain	
CBCC	Caltech Broad	
CBCH	Cabildo	
CBCY	The Bluff, Cayman Brac	
CBD	Cypress Bend	
CBE	F˜f˜, Capesterre Belles Eaux	
CBET	Carlsbad E Tower	
CBEU	Beuda	
CBHM	Coso Basin North	
CBHT	Chr Bro Hi School	
CBI	Chichi jima	
CBIJ	Chichi jima	
CBJI	Citeko	
CBK	Corner Brook	
CBKC	Canebrake	
CBKS	Cedar Bluff	
CBLA	Cariblanco	
CBLG	Bald Mountain Lookout	
CBM	Caribou	
CBMO	Girardeau Bridge	
CBN	Corbin Fredericksburg Observatory	
CBND	Bou Andas	
CBO	Chesbro Reservoir	
CBOC	Ciudad Bolivar, Antioquia	
CBOG1	Bogota, SGC	
CBP	Campbellpur	
CBR	Cabramurra	
CBRG	Chuberi	
CBRI	Barrientos, Norte de Santander	
CBRM	Bolinger Road	BGC
CBRQ	Cabonga Reservoir	
CBRU	Bruguera	
CBS	Caborca	
CBSM	Byron Hot Springs	
CBSNC	Byron Hot Springs, Alameda County	
CBSW	Chelan Butte South	
CBT	Christianburg	
CBTI	Cedar Butte	
CBTN	Chibotane	
CBVB	Cao Bang	
CBW	Chelan Butte	
CBW1	Budock Water	
CBWM	Brookwood Res.	BKC
CBX	Cerro Bola	
CBY	Cold Bay	
CBYB	Canovanas	
CBYP	Canovanas	
CBZ	Campbell Island	
CBZL	Buffer Zone	
CBZM	Michoacan	
CC01	CC01	
CC03	Monteleto	
CC03E	CC03E	
CC05	CC05	
CC06A	CC06A	
CC06B	CC06B	
CC07	CC07	
CC08A	CC08A	
CC1	Presa Caracol 1	
CC2	Presa Caracol 2	
CC3	Presa Caracol 3	
CC4	Presa Caracol 4	
CC5	Presa Caracol 5	
CCA	Coamo	
CCA1	Carnmenellis	
CCAC	Calif City Airpt	
CCAN	Las Canadas	
CCAR	Cane Creek	
CCAS	Cassa de la Selva	
CCAZ	Cataract Creek	
CCB	Clear Creek Butte	
CCC	Cusp Creek	
CCCA	Chr Cany lake	
CCCC	Cccc	
CCCH	Con Con	
CCD	Concordia, Antarctica	
CCE3	Bocca Seriola	
CCF	CONSTANTA	
CCG	Camp Century	
CCH	Cochabamba	
CCHE	Chesterland	
CCHI	Chillan	
CCHK	Cheung Chau	
CCI	Cagliari Citta	
CCIG	Comitan	
CCK	Cocos Island	
CCLV	Calvizzano	
CCM	Cathedral Cave	
CCMO	Creve Coeur	
CCMT	Clark Canyon Reservoir	
CCMX	Caleta Campos	
CCN	Cachucha Ranch	
CCN3	Pietralunga	
CCNC	Camp Creek Bald	
CCNE	Clay Center	
CCNM	Crow Canyon Rd	CYC
CCNY	Canisius College, New York, USA	
CCO	Chico	
CCO1	Constantine	
CCOB	Coe Ranch Number 3	
CCODA	Codazzi, Cesar	
CCOK	Camp Classen	
CCOM	Coe Ranch	COE
CCP	Cebu City	
CCPC	Citt^ di Castello	
CCPU	Cedar City Park	
CCR	Chacarita	
CCRB	Cholame Creek	
CCRM	Cairn Curran	
CCRT	Cow Camps Rge	
CCS	Cawcaw Swamp	
CCSP	San Pedro de Concepcion	
CCT	Chilecito	
CCU	Cedar City	
CCUC3	Cucuta, Santo Domingo	
CCUFI	Cufi^–o, Nari^–o	
CCUM	Cumbre, El Hierro	
CCUT	Cedar City	
CCVA	Cudjo Caverns	
CCVB	Con Cuong	
CCW	Cape Campbell	
CC-WA	Cascade Tunnel	
CCX	Cicese	
CCYM	Coyote Hills	
CD01	CD01	
CD04	CD04	
CD06	CD06	
CD07	CD07	
CD10	CD10	
CD11	CD11	
CD12	CD12	
CD14	CD14	
CD15	CD15	
CD16	CD16	
CD17	CD17	
CD19	CD19	
CD2	Chengdu	
CDA	Cape Douglas	
CDAG	Cicekdag	
CDAL	Dalton Road	
CDAM	Ciudad Altamirano	
CDB	Caldarusani	
CDC	Canada Road	
CDCA	Citt' di Castello	
CDCB	Carmo do Cajuru	
CDCH	Caldera	
CDD	Cape Douglas	
CDF	Champ du Feu	
CDFW	Cedar Flats	
CDG	Carters Dam	
CDH1	Calico Hills	
CDH5	Calico Hills	
CDI	Cordova	
CDITO	Canoas	
CDKN	Chidliak Camp Nunavut	
CDL	Candle	
CDL2	Cedral	CDRL
CDLV	Cueva Verdes	
CDM	Cerro de Muerte	
CDMR	Cedar Moraine	
CDN	Cerro del Durazano	
CDNM	Cardinia	
CDO	Cedar Creek	
CDOM	Doolan Road	DOO
CDP	Cerro de Punta	
CDPB	Cerro de Punta	
CDR	Cadarache	
CDRL	Cedral	
CDRO	Cedros	

Code	Station Name	Other
CDRU	Civita di Ruta - Ottati	
CDSB	Chapadao Do Sul	
CDSM	Don Santos Ranch	
CDT	Castel del Monte	
CDU	Chengdu	
CDU1	Dunnerdale	
CDUM	Durate Ranch	DUC
CDVI	St. Croix	
CDVM	Del Valle	
CDY	Cape Darby	
CDZ	Cobb Dam	
CE-	Concrete	CE-WA
CE01	CE01	
CE02	CE02	
CE03	CE03	
CE04	CE04	
CE05	CE05	
CE06	CE06	
CE07	CE07	
CE08	CE08	
CE09	CE09	
CE11	CE11	
CE13	CE13	
CE15	CE15	
CE16	CE16	
CE17	CE17	
CE18	CE18	
CE19A	CE19A	
CE20	CE20	
CE21	CE21	
CE22	CE22	
CE23	CE23	
CE24	CE24	
CE25	CE25	
CEA	Ceahlau	
CEAP	Semis' Anvil Peak	
CEAZ	Cerra Azul, Caleta Web	
CEC	Childress 1	
CECL	East Claridon	
CECO	Cedaredge	
CECU	Ecuador Network	
CED	Cedar Springs	
CEDA	San Andres	
CEDE	Laguna Cedˆ–o	
CEDI	Cerro Diablo	
CEDR	Cedros	
CEH	Chapel Hill	
CEI	Carei	
CEIV	La Ceiba	
CEL	Celeste	
CELB	S.Piero in Campo Elba	
CELI	Celico	
CELP	Cerrillos	
CEM	Cemisgezek	
CEME	Cevo	
CEN	Cerronegro	
CEN1	Los Morros	
CENE	Cerro Negro	
CEO	Cerro Encantado	
CEOS	Cerro El Oso	
CEP	Cherat	
CEPE	Semis' Perret Rge	
CER	Ceres	
CERA	Filignano	
CERAA	Semis' Rag'd Top	
CERB	Semis' Cerberus	
CERBA	Cerbatana	
CERR	Cheremushki	
CERT	Cerreto	
CERV	Cerron	
CES	Cherskiy	
CESE	ˆe¯me	
CESI	CESI - Serravalle di Chienti	
CESL	Cescau	
CESS	Cesta pri Krskem	
CEST	Esterri de Cardos	
CESW	Semis' Southwest	
CESX	Cesi	
CET2	Cetraro	
CETU	Semis' Tuman	
CEU	Ceuta	
CEUT	Ceuta	
CEVE	Cerro Verde	
CE-WA	Concrete	
CEY	Cerknica	
CEYT	Ceyhan	
CF-	Colfax	CF-WS
CF01	CF01	
CF02	CF02	
CF04	CF04	
CF05	CF05	
CF06	CF06	
CF07	CF07	
CF08	CF08	
CF09	CF09	
CF10	CF10	
CF11	CF11	
CF13	CF13	
CFA	Coronel Fontana	
CFAA	Coronel Fontana	
CFC	Cairnmuir Flats	
CFF	Clermont-Ferrand	
CFI	College Fiord	
CFJ	Citronen Fjord	
CFL	Chilao Flats	
CFLOR	Florencia	
CFM	Cliffside	
CFO	Chats Falls	
CFON	Fontmartina	
CFR	Carcaliu	
CFS	Cross Fire Station	
CFSC	Central Fire St	
CFT	Crafton Hills	
CFTB	Yalova	
CFTV	Fuerteventura	
CFU	Cove Fort	
CFUE	Fuerteventura	
CFWM	Cactus Flat West	
CF-WS	Colfax	
CG-	Cumberland Gap	CG-VA
CGA	Cape Gloucester Airport	
CGA2	Cerro Gallo 2	
CGAC	Cerro Gallo	
CGAR	Garraf	
CGC	Craig	
CGD	Chagda	
CGG	Guerrero	
CGG3	Caggiano	
CGGP	Crater GGP	
CGH	Cape Good Hope	
CGH1	Goonhilly	
CGI	Chicago	
CGIG		
CGJI	Cibinong	
CGL	Cagliari Serpeddi	
CGL1	Ceglie Messapica	
CGLM	Capps Glacier	
CGM	Cape Girardeau	
CGMA	Guelma	
CGN	Calugareni	
CGO	Cerro Gordo	
CGP	Cagayan de Oro	
CGPM	Gavin Park	
CGPV	Cottongarden Point	
CGR	Cap Guir	
CGR1C	Isla Gorgona, Cauca	
CGRP	Cima Grappa	
CGRR	Girdled Road	
CGSM	China Gardens South	
CGT	Chuian-Garon	
CGTN	Cumberland Gap	
CGTX	Campo Grande	
CGUE	Guelma	CGMA
CGV	Camp Garcia	
CG-VA	Cumberland Gap	
CGVM	Cerro Gordo	
CGW	Gweek	
CGX	Ciudad Guzman	
CGY	Coligny	
CH-	Churchill	CH-MT
CH01	Chania	
CH02	Chania	
CH03	Technical University Creta	
CH2	Chocolate Mountain	
CH5	Clark Hill Reservoir	
CH6	Clark Hill Reservoir	
CHA	Chatra	
CHA1	Chaam	
CHA2	Chaam	
CHA3	Chaam	
CHA4	Chaam	
CHA5	Chaam	
CHAE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
CHAF	Chalampe	
CHAG	Chala	
CHAI	Chaiyaphum	
CHAM	Chaffey Accelerograph	
CHAN	Chania	
CHAR	Charly	
CHAS	Isla Isabel II, Islas Chafarinas	
CHAT	Chantaburi	
CHAU	Chaumont	
CHAY	Cayeli-Rize	
CHB	Church	
CHBI	Chibit, Altay Republic, Russia	
CHBR	Chabahar	
CHBT	CHBT	
CHBY	Cihanbeyli	
CHC	Chapel Hill	
CHCH	Chadas Angostura	
CHCP	Chirah Chowk	
CHDN	Chaudanne	
CHDS	Charjew	
CHDUK	Cheddleton UK	
CHE	Cheb	
CHEF	Ethiopian Broadband Seismic Experiment	
CHEFC	Chefchaouen	
CHEG	Cheticamp, Nova Scotia	
CHER	Cherat	
CHET	Chet-Su	
CHF	Calhoun Falls	
CHFC	Chilao Flat Sta	
CHFM	Chaffey Dam	
CHFR	Pto Chacabuco	
CHG	Chiang Mai	CHTO
CHGB	Renai	
CHGM	Chingoma	
CHGN	Chignik	
CHGQ	Chibougamau	
CHGR	Chuyangaron	
CHH	Chihuahua	
CHI	Chicago-Loyola	
CHI1	Chimborazo	
CHI2		
CHIA	Chirikof Island	
CHIC	Chingaza	
CHIE	El Hierro	
CHIF	Chize	
CHIL	Chillagoe	
CHIM	Chimborazo	
CHIN	Chinandega	
CHIO	Chio	
CHIP	Near Potsdam	
CHIPN	CHIPINGE	
CHIQ	Chicoutimi-Nord	
CHIR	Chirikof Island	
CHIR1	Chironico	
CHIS	Cerro-Chispas-Manabi	
CHIT	Chita	
CHIX	Chihuahua	
CHJ	Chichibu	
CHJJ	Chichibu	
CHK	Chicago	
CHK4	Chkalova array site	
CHK5	Chkalova array site	
CHK6	Chkalova array site	
CHK7	Chkalova array site	
CHK8	Chkalova array site	
CHK9	Chkalova array site	
CHKA	Cham-Katzbach	
CHKI	Chanki	
CHKK	Chushkaly	
CHKT	Chengkung	
CHKZ	Chkalovo	
CHL	Chilik	
CHLD	Childara	
CHLP	Challavanipeta	
CHM	Chimkent	
CHMF	Charmoille	
CHMN	Cheshme madani	
CHMS	Chumysh	
CHMT	Chamberlain Mountain	
CH-MT	Churchill	
CHMZ	Choma	
CHN	Chinchina	
CHN1	Nanshi	
CHN2	Minshiung	
CHN3	Shinhua	
CHN4	Tsaushan	
CHN5	Tsauling	
CHN6	CHN6	
CHN7	Lioujiau	
CHN8	Yiju	
CHNC	Chino	
CHNG	Los Chungos	
CHNM	Channel	
CHO	Chosi	
CHO1	Chosi	
CHOC		
CHOI	Coyote Hollow	
CHOJ	Chosi	
CHOM	Cayeli-Rize	
CHOR	Cabbage Hill	
CHOS	Chios island	
CHP	Chuchupate	
CHP1	Pelados	
CHP2	Corcovado	
CHP3	Chocan	
CHP4	Algarobillo	
CHP5	Huaypira	
CHP7	Eten	
CHP8	Chiclayo	
CHPA	Chiripa	
CHPI	Pichilemu	
CHPM	Chiautla de Tapia	
CHQ	Charlesbourg	
CHR	Christchurch	
CHRM	Charleston	
CHRN	Cochrane	
CHRS	Christianenhaus	
CHRT	Chiangrai	
CHRU	Chernivtsi	
CHRY	Calls Hollow Road	
CHS	Chusal	
CHSA	Colony High School	
CHST	Chistovodnoe	
CHT	Chittagong	
CHT1	Chitral	
CHTH	Charan	
CHTJ	Chita	
CHTL	Chitral	
CHTN	Church Hills	
CHTO	Chiang Mai	
CHU	Chur	
CHUD	Chudeng	
CHUE	Retiro	
CHUH	Cerro de Hula	
CHUM	Lake Minchumina	
CHUQ	Chuquichambi	
CHUS	Chupsang	
CHV	Chiavari	
CHV1	Chavriata, Kefallonia	
CHVC	Chvalec	
CHVG	Ch'k'valeri	
CHVK	Chauvay	
CHVM	Chichinautzin	
CHW	Chowiet Island	
CHX	Chaix Hills	
CHY	Chiayi	
CHZ	Chorzow	
CHZP	Chorzow	
CI-	Clintwood	CI-VA
CIA	Chichaoua	
CIAC	Catalina I. Airport	
CIB	Cedar Butte	
CIBA1	Ibague, SGC	
CICH	Cipreses	
CICO	Icod de los Vinos	
CIDE	Kastamonu/Cide-Merkez	
CIFT	Cifteler, Eskisehir	
CIGN	Sant'Elia a Pianisi	
CIGS	Centro de Investigaciones Geotecnicas	
CII	Carovilli	
CIM	Chimachoy	
CIMA	Civitanova Marche	
CIMO	Cimolais	
CIN	Cine	
CING	Cingoli	
CIO	Camerino	
CIOR	Ciorogarla	
CIP	Cipolletti	
CIPM	Puebla	
CIQ	Chicoutimi	
CIR	Chiredzi	
CIRC	Cˆ›rculo Militar	
CIRL	Cave In Rock	
CIRO	Champorcher	
CIRR	Tsirk	
CIS	Catalina Island Airport, Avalon	
CISC	Cisc	
CISI	Cisompet, Garut	
CIT	Chita	
CIU	Catalina Island	
CI-VA	Clintwood	
CIVI	Edificio de Ingenierˆ›a Civil	
CIVM	Cilcuayo	
CIW	Santa Catalina Island West	
CIZ	Chatham Islands	
CJA	Chijiwa	
CJM	Chamela	
CJR	Cluj-Napoca	
CJR1	Cluj-Napoca	
CJUL	El Julon, El Hierro	
CJV	Casa Juvan	
CJW	Canyon Junction	
CK-	Cache Creek	CK-BC
CKA	Chakrata	
CK-BC	Cache Creek	
CKC	Cook Canyon	
CKE	Keswick	
CKFL	Kef-Lekhel	
CKH	Chokchoi	
CKHR	Kef el Ahmar	
CKHZ	Cape Kidnappers	
CKI	Cairo Montenotte	
CKK	Chekok	
CKL	Chakachamna Lake	
CKLZ	Chkalov	
CKM	Coopers Lake	
CKN	Chakachatna North	
CKO	Chalk River	
CKP	Chanarkot	
CKR	Christmas Creek	
CKRC	Cesky Krumlov	
CKRK	Yozgat/˜ekerek-Merkez	
CKT	Bend	
CKVB	Chieng Khoang	
CKWL	Crookwell	
CL-	Challis	CL-ID
CL01	CL01	
CL02	CL02	
CL03	CL03	
CL04	CL04	
CL05	CL05	
CL1	Del Valle	CDVM
CL1S	Chul'man	
CL2	Mines Road	CMNM
CLA	Chala	
CLA1	Claut1	
CLAB	ClautB	
CLAN	Lanzarote	
CLAP	Shields Creek	
CLAR	Clarkstown	
CLAW	Mount Claude	
CLB	Chilbolton	
CLC	China Lake	
CLCB	Lake Chabot	
CLCH	Cerro Calan	
CLCM	Lake Chabot	LKC
CLCV	CALICANTO	
CLD	Caldera	
CLDB	Colider	
CLDR	Caldiran	
CLE	Cleveland	
CLEO	Cleveland Museum of Natural History	
CLF	Chambon-Foret	
CLG	Cologne	
CLGH	Cloghs, Cushendall	
CLH	Cheltenham	
CLI	Colonesti	
CLIC	Calipatria	
CL-ID	Challis	
CLIN	Clinton	
CLIR	CLINCENI	
CLISU	ISU Calarasi	
CLJI	Cilicap	
CLK	Chileka	
CLKR	Crowley Lake	
CLL	Collm	
CLLI	Llivia	
CLLN	Colliano	
CLLP	Cerrillos	
CLM	Coleman	
CLMC	Lago Colima	
CLN	Carlsbad	
CLN2	Carlsbad 2	
CLN4	Carlsbad 4	
CLN6	Carlsbad 6	
CLN7	Carlsbad 7	
CLNB	Carlsbad	
CLNS	Chul'man	
CLO	Closani	
CLP	Clara Peak	
CLPO	Centennial Lake Park	
CLR	Collurania	
CLRN	Clyde River	
CLRS	Cowichan Lake Research St	
CLS	Calistoga	
CLSB	Cack Lake	
CLT	Charlottesville	
CLT3	Calitri	
CLTA	Licata	
CLTB	Caltabellotta	
CLTC	Calectric	
CLTN	Cedars of Lebanon	
CLTR	Calitri	
CLU	Cluj	
CLUB	San Salvador	
CLUD	Cludinico	
CLV	Cleve	
CLVB	Cleveland Dam	
CLVN	Colville Lake	
CLVV	Chieng Lao	
CLW	Colville	
CLWO	Collingwood	
CLX	Calx Mountain	
CLY	Crystal Lake	
CLZ	Clausthal	
CM01	Chiang Mai Array Site 1	
CM02	Chiang Mai Array Site 2	
CM02E	CM02E	
CM03	Chiang Mai Array Site 3	
CM03E	CM03E	
CM04	Chiang Mai Array Site 4	
CM05	Chiang Mai Array Site 5	
CM05E	CM05E	
CM06	Chiang Mai Array Site 6	
CM07	Chiang Mai Array Site 7	
CM08	Chiang Mai Array Site 8	
CM08E	CM08E	
CM09	Chiang Mai Array Site 9	
CM1	Central Minnesota Array	
CM10	Chiang Mai Array Site 10	
CM11	Chiang Mai Array Site 11	
CM12	Chiang Mai Array Site 12	
CM13	Chiang Mai Array Site 13	
CM14	Chiang Mai Array Site 14	
CM15	Chiang Mai Array Site 15	
CM16	Chiang Mai Array Site 16	CMAR
CM17	Chiang Mai Array Site 17	
CM18	Chiang Mai Array Site 18	
CM2	Central Minnesota Array	
CM3	Central Minnesota Array	
CM31	Chiang Mai Array Site 31	
CM32	Chiang Mai Array Site 32	
CM33	Chiang Mai Array Site 33	
CM34	Chiang Mai Array Site 34	
CM35	Chiang Mai Array Site 35	
CM36	Chiang Mai Array Site 36	
CM4	Central Minnesota Array	
CM5	Central Minnesota Array	
CM6	Central Minnesota Array	
CM6*	Campone	
CMA	Clear Mews	
CMA1	Manaccan	
CMAH	Djebel Manchoura	
CMAI	Chiengmai2	
CMAN1	Manizales, Caldas	
CMAQ	Casa Mˆ¡quinas	

Code	Station Name	Other
CMAR	Chiang Mai Array Beam Reference Point	
CMAS	Mas de Barberans	
CMB	Columbia College	
CMBC	Cumbal	
CMBN	Cumberland Camp Nunavut	
CMBO	Columbo, Santorini Isl.	
CMBY	CAMPBELL BAY	
CMC	Coppermine	
CMCH	Combarbala	
CMCL	Mercadel, El Hierro	
CMCM	Mills College	
CMCO	Colorado Mnmt	
CMCZ	Cairnmuir Mts	
CMDO	Montedoro	
CMDR	Camlidere-ANKARA	
CME	Menerdue Farm	
CMEN	Mentor	
CMER	Merouana	
CMET	Nicosia	
CMF	Cannet Maures	
CMG	La Cumbre	
CMG2	La Cumbre 2	
CMGA	Chestnut Mountain	
CMH	Chemehuevi Mountains	
CMHM	Mt Hamilton Road	MHR
CMI	Centennial Mountain	
CMIG	Matias Romero	
CMJ	Castle Mountains	
CMJI	Cimerak	
CMJM	Mission San Jose	MSJ
CML	Cha da Macela	
CMLA	Cha da Macela	
CMLM	Mount Lewis	
CMMM	Mount Mocho	
CMMT	Chiang Mai	
CMN	Crown Mine	
CMNM	Mines Road	
CMNY	Cheesecote Mountain, Pomona, NY	
CMO	College--Fairbanks	
CMO6E	CMO6E	
CMOB	Morgan Territory	
CMOM	Morgan Territory	MTC
CMP	Campulung	
CMP3	Campagna	
CMPA		
CMPB	Campos	
CMPM	Mikes Peak	
CMPO	Campotto Po	
CMPR	Campora	
CMR	Camerino	
CMRD	Camardi-Nigde	
CMRM	Mines Road	MNR
CMRS	Pozzuoli	
CMS	Cobar Meteorology Station	
CMSA	Cobar Meteorology Station	
CMSB	University of California Stadium	
CMT	Clancy	
CMTX	Cooper Mountain	
CMU	Cedar Mountain	
CMW	Cultus Mountains	
CMWZ	Cape Campbell	
CMX	Colima	COLM
CMZ	Cashmere	
CN-	Cornell	CN-WS
CN03	CN03	
CN05	CN05	
CN07	CN07	
CN1H	Cairns Hard Rock	
CN2	Changchun	
CN2S	Cairns Soft Rock	
CNA	Cantwell	
CNB	Canberra Magnetic Observatory	
CNBA	Chernabura Island	
CNC	Concord--Diablo Valley College	
CNCB	Chanca	
CNCH	Conchagua	
CNCI	Crows Nest Canyon	
CNCM	Norris Canyon Road	
CNCO	Chanco	
CNCR	Cernica	
CNCS	Concesio	
CND	Currant	
CNE	Childress 2	
CNF	Cerre-les-Noroy	
CNG	Changalane	
CNGN	Cerro Negro	
CNGZ	Carnagh Station	
CNH	Changchun	
CNI	Changuinola	
CNIC	Niles Canyon	
CNIL	Conil	
CNJ	Catfish Pond	
CNJI	Cibinong	
CNK	Concordia	
CNL	Connel	
CNLB	Canela	
CNM	Chama	
CNN	Cincinnati	
CNNC	Cliffs of the Neuse	
CNO	Childress 3	
CNOCA	NORCASIA, CALDAS	
CNOP	Candoni, Negros Occidental, Philippines	
CNP	Catarman	
CNPM	China Poot	
CNQ	Baie Comeau	
CNR	Chonco	
CNRT	Cenerente	
CNS	Constantine	
CNS1	Cairns-h seis/acc	
CNT	Guangzhou	GZH
CNTC	Contact Creek	
CNTO	Contao	
CNU	Chengdu	CDU
CNV	Corbin	CBN
CNW	Childress 4	
CN-WS	Cornell	
CNY	City College NY	
CNZ	Chateau	
CO-	Colome	CO-SD
CO01	Juntas del Toro	
CO02	Combarbal˜¡	
CO03	El Pedregal	
CO04	Los Peladeros	
CO2	Coxcomb Mountains 2	
COA	Coachella	
COAL	Corum-Alaca	
COAS	Coatepeque	
COAV	Cumanacoa	
COB	Cobb River	
COB3		
COBQ	Cobquecura	
COBS	Casablanca	
COBT	Iskenderun	
COC	Colombo	
COCH	Cobquecura	
COCO	West Island	
COCR	Colorado	
COD	South Dennis	
CODC	Agust˜›n Codazzi, Colombia	
CODE	Correggio	
CODG	Codroy Newfoundland	
CODM	Codolo	
COE	Coe Ranch	
COEN	Coen	
COFF	Manyatta Coffee Estate	
COFN	Cofrada	
COH	Cochiti	
COHC	Cochancay	
COI	Coimbra	
COIS	El Sosneado	
COJ	Choshi	
COK	Cook Ranch	
COKM	Charter Oak	
COKN	Cook Lake	
COL	College Outpost	
COL3	Colliano	
COLA	College	
COLC	Colonia	
COLD	Coldfoot	
COLF	Collangettes	
COLI	Coloredo	
COLK	Krashen	
COLL	Andarivi	
COLM	Colima	
COLN	Colon	
COLO	COLO	
COLR	Columbus	
COLS	Colinas	
COLT	Colton High School	
COLW	Colter Canyon	
COM	Comitan	
COM2	Comitan 2	
COMI	Craters of Moon	
COMIL	Quito-Colegio Militar	
CON	Concepcion	
CONA	Conrad Observatory	
CONC	Concepcion	
CONE	Cono NE Rev Volc	
CONN	Concepcion	
CONS	Constitucion	
CONY	Cobleskill	
COO	Cooney Tunnel	
COOC	Compton	
COOL	Coolgardie	
COP	Copenhagen	
COPA	Copaceanca	
COPE	Corleto Perticara	
COPM	Copeton	
COPN	Copaltepe	
COQ	Corona Quarry	
COQB	Coquitlam Dam	
COR	Corvallis	
COR1	Corinaldo	
COR2	Caldas Novas	
CORC	Orchilla, El Hierro	
CORF	Corte	
CORG	Organya	
CORI	Orista	
CORK	Cork	
CORL	Corleone	
CORM	Corum	
CORN	Cornellia Hill	
CORO	Coronation Park	
CORR	San Possidonio	
COS	Cosiguina	
CO-SD	Colome	
COSF	Comisariato del Ejercito Sur - Quito	
COSM	Mount Oso	
COSP	Cold Spring	
COT	Chocolate Mountains	
COTA	Cotacachi	
COTN	Columbia	
COTR	Cottonwood	
COV	Colchester	
COV1	Cotopaxi Volc	
COVE	COVE	
COVZ	Chateau Observatory	
COW	Cow Castle Creek	
COWI	Conover	
COWN	Contwyoto Lake 2	
COWO	College of Wooster	
COXM	Coxim-MS Brazil	
COY	Coyote Mountain	
COYC	Coyhaique	
COZ	Cozia	
CP-	Campo	CP-CL
CP2	Crater Peak Two	
CPA	Chapri	
CPAL	Palau Saverdera	
CPAM	Crater Peak Alternate	
CPAS1	Pasto	
CPAS2	Pasto	
CPB	Codrington	
CPBX	Cerro Prieto	
CPC	Cherry Point	
CPCH	Copiapo	
CP-CL	Campo	
CPCT	Cooper Cave	
CPD	Cerro la Pandura	
CPDB	Cerro Pandura	
CPE	Camp Elliot	
CPGN	Carpegna, Italy	
CPH	Captain Cook	
CPI	Crown Point	
CPI2	Carpinone	
CPIM	Pinole Ridge	
CPK	Cone Peak	
CPKM	Crater Peak Rim	
CPL	Chaplin	
CPLB	Carmanah Point Lighthouse	
CPLM	Palomares Road	
CPM	Copper Mountain	
CPMM	Point Molate	
CPMP	Pompei	
CPN	CP-17	
CPN1	Cerro Paranal	
CPNM	Pleasanton	
CPNY	Central Park	
CPO	Cumberland Plateau	
CPO5	Cumberland Plat.	CPOT
CPOP2	Popayan, Invias	
CPOP3	Popayan, Sena	
CPOP5	Popayan, Gabriela Mistral	
CPOT	Cumberland Plateau	
CPP	Copiapo	
CPPC	Cal Poly Pomona	
CPR	Cape Romanzof	
CPRX	Cap Rock	
CPS	Cap Spartel	
CPSB	Cacapava Do Sul	
CP-SO	Cumberland Plateau Observatory	
CPT	Camp Pendleton	
CPTM	Cactus Peak West	
CPTP	Pietraperzia	
CPU	Coon Peak	
CPUP	Villa Florida	
CPW	Capitol Peak	
CPWZ	Castlepoint	
CPX	CP-1	
CPXM	Mount Cotopaxi	
CPY	CP-1	
CPZ	Penzance	
CQ-NV	Caliente	
CR-	Crete	CR-NB
CR1	Chicoasen 1	
CR2	Chicoasen 2	
CR2G		
CR2NB	Crete	
CR3	Chicoasen 3	
CR4	Chicoasen 4	
CR5	Chicoasen 5	
CR6	Chicoasen 6	
CR7	Chicoasen 7	
CRA	Chernovtsy	
CRAC	Craco	
CRAG	Craig	
CRAI	Chiangrai	
CRAJ	Montana Rajada	
CRAM	San Ramon	
CRAR	CRAIOVA	
CRB	Chernovtsy (B)	
CRBI	Circular Butte	
CRC	Castle Rock	
CRCA	Reggio Calabria	
CRCH	Chaqaral	
CRD	Cavedale Road	
CRDM	Cardoso	
CRE	Caprese Michel	
CREF	Crivoux	
CRES	C@19res@19njevec Ostr	
CRF	Corfu	
CRG	Carmichael	
CRGC	Crocker Grade	
CRH	Carson Hill	
CRHM	Round Hill Res.	
CRI	Mount Carmel	
CRIB	Cristalandia	
CRID	Crittenden County--Downhole	
CRIN	San Cristobal	
CRIS	Crittenden County--Surface	
CRISS	CRISS	
CRJA	Costa Raja	
CRJC	Cerrejon, Guajira, Colombia	
CRL	Carloforte	
CRLO	Chalk River	
CRLT	Corlu	
CRLZ	Canterbury Laser	
CRM	Caravelle	
CRM1	Catelraimondo	
CRMI	Carmignano	
CRMT	Chrome Mountain	
CRN	Corinaldo	
CR-NB	Crete	
CRNC	Corona	
CRND	Cornuda	
CRNM	Carthage	
CRNS	Crni Vrh	
CRNY	Cross River	
CRO	Carnasaw Mountain Lookout Tower	
CROG	Croghan	
CROR	Criterion Ridge	
CROSA	EL ROSAL, CUNDINAMARCA	
CRP	Crater Peak	
CRPB	Russellman Park	
CRPC	Caltech Rob'n Pit	
CRPM	Russellman Park	
CRPR	Cabo Rojo, PR	
CRQ	Rosemanowes	
CRQ2	Rosemanowes 2	
CRQB	Carquinez Bridge	
CRQM	Cirque	
CRR	Carrizo Plain	
CRRB	Carira, Sergipe, Brazil	
CRS	Chara	
CRSP	Cerreto di Spoleto	
CRST	La Restinga, El Hierro	
CRT	Cartuja	
CRTN	Comb Ridge	
CRU	Crutchfield	
CRUC	La Cruz	
CRUN	El Crucero	
CRUV	Carupano	
CRUX	Bergwerk Schwarze Crux	
CRUZ	CRUZ	
CRV	Caraveli	
CRVI	Carovilli	
CRVS	Cervenica-Dubnik	
CRWM	Crown Mines	
CRX	Cerrillo	
CRY	Cary Ranch	
CRZ	Cape Reinga	
CRZ1	La Cruz	
CRZC	La Cruz	
CRZF	Crozet Islands	
CS-	Crossville	CS-TN
CS01	CS01	
CS02	CS02	
CS03	CS03	
CS04	CS04	
CS05	CS05	
CS06	CS06	
CS07	CS07	
CS08	CS08	
CS6B	Jaguaretama	
CSA	Cape Sarichef	
CSA1	St Austell	
CSAM	Sandia	
CSAN		
CSB	Colonia Sabana	
CSC	Columbia	SVC
CSCL	Casacalenda	
CSCM	Silver Creek	SVC
CSCO	Clark State Community College	
CSD	Chor-Sady	
CSE	Childress 5	
CSEN	Crystal Springs Elementary School	
CSF	Scaffel	
CSG	Childs Glacier	
CSG3	Toppo Di Castelgrande (Osservatorio Astronomico)	
CSGN	Cosiguina Volcano	
CSH	California State, Hayward	
CSHM	Cal. St., Hayward	CSH
CSI	Cassano Ionio	
CSIL	Creal Springs	
CSJ	Cape San Juan	
CSKK	Cs˜‡kako	
CSL	Crestline	
CSLB	Castelbuono	
CSLM	San Leandro Hills	
CSM	Casamicciola	
CSMI	Casera Mimoias	
CSN	Chicoasen	
CSNA	Conrad Observatory	
CSNT	Castellina Chianti	
CSO	Casso	
CSOR	Sort	
CSP	Cedar Springs	
CSP1	Cessapalombo	
CSPM	San Pablo Ridge	
CSPT	Cold Springs	
CSR	Chase Ranch	
CSRY	Cold Spring River	
CSS	Mathiatis	
CSSM	Coso Springs South	
CSSN	Cassano Irpino	
CST	Castrovirreyna	
CST1	Stithians	
CSTJ	Casr Tuba	
CSTL	Corral Hollow	
CS-TN	Crossville	
CSU	Charleston Southern University	
CSU1	Sunol Dilatometer	
CSV	Casigua	
CSVM	Stone Valley	
CSW	Childress 6	
CSY	Casey Station	
CSZ	Casera Razzo	
CT-	Clayton	CT-OK
CTA	Charters Towers	
CTAB	Cerro Tablazo, Cundinamarca	
CTAD	Las Tabladas, Isla de El Hierro	
CTAK	Corum_Osmancik	
CTAM	Taylor	
CTAN	El Hierro	
CTAO	Charters Towers	CTA
CTAS	Cauta	
CTAU	Tausa, Cundinamarca	
CTB	Cotabato	
CTBH	Cotabato--PC Hill	
CTBM	Cataract Bedrock	
CTBN	Caleta Bueno	
CTC	Chetwynd	
CTCC	Cactus City	
CTCH	Constitucion	
CTCR	Cotoan	
CTD	Catalina Dam	
CTDM	Cataract Dam	
CTEI	Djebel Teioualt	
CTFE	Tenerife	
CTFL	Taylor Farm	
CTGM	Chitina Glacier	
CTHA	Thorn Acres	
CTHM	Terry Harris R'ch	
CTI	Castel Tesino	
CTIG	El Hierro	
CTISU	Constanta	
CTJI	Waduk Cacaban	
CTK	Catak	
CTKS	Kestanelik-??atalca	
CTKT	Corum	
CTL8	Castelleone	
CTLM	Tesla Road	
CTLN	Castor Lake	
CTM	Castle Mountain	
CTN	Crete	
CTNY	Carthage	
CTO	Cape Town	
CT-OK	Clayton	
CTOM	Thompson	
CTP	Catapilco	
CTR	Castle Rock	
CTRE	Tremp	
CTRO	CASTRO	
CTS	Cactus Peak	
CTT	Catalca	
CTTX	Catalca	
CTU	Camp Tracy	
CTUM2	Tumaco	
CTUMA	Tumaco, Batallon	
CTV	Charlottesville	
CTVN	Chua Tram	
CTW	Cottonwood Mountains	
CTYL	Yalikoy Yolu	
CTZ	Chatham Island	
CU-	Currant	CU-NV
CUALT	Altinyayla-SIVAS	
CUBY	Cutbertbay	

Code	Station Name	Other
CUC	Castrocucco	
CUD	Cuddapah	
CUET	Cent US Eq Cons	
CUG	Cuglieri	
CUGUR	Gurin_S¨VAS	
CUI	Cuipilapa	
CUIC	Cuicocha-Domo	
CUKAN	kangal_SIVAS	
CUKT	Cukurca	
CUL	Culiacan	
CULB	Culebra	
CUM	Cumana	
CUMB	Cumbre	
CUMC	Nevado Cumbal	
CUMY	Casa Hugo Yepes - Cumbaya	
CUN	Columbus	
CUNA	Curaglia	
CUND	Cunda Adasi-Balikesir	
CU-NV	Currant	
CUNY	Queens College	
CUP	Culebra	
CUPA	Cupa	
CUPM	Cuyoaco	
CUPR	Culebra, Puerto Rico	
CUPV	Cu@15pira	
CUR	Chagan-Uzun	
CURA	Stauanlage Cunera	
CURV	Curarigua	
CUS	Cuzco	
CUS1	Cusmapa	
CUSAR	Sarkisla-SIVAS	
CUSC	San Salvador	
CUSE	Cuicocha Este	
CUSI	Cussignacco Udine	
CUSS	Cusmapa	
CUSU	Cusua	
CUSW	Cuicocha Oeste	
CUT	Chulitna	
CUV	La Culata	
CUYO	Cuyo Island	
CUZAR	Zara_SIVAS	
CV-	Centerville	CV-TN
CV6*	Capo Vaticano	
CVA	Cordova	
CVAL	Veterans Administration Hospital	
CVALL	Valledupar, Cesar	
CVC	Cholame Valley	
CVD	Cernavoda	
CVD1	Cernavoda-Power Plant	
CVDA	Cernavoda	
CVE	Cedar Cove	
CVER	Cruz Verde, Cundinamarca	
CVF	Calvi	
CVH	Cedar City	
CVI	Capo Vaticano	
CVJ	Coleyville	
CVL	Charlottesville	
CVLM	Vallecito	
CVLQ	Collinsville	
CVM	Colonia del Valle	
CVN	Calvinia	
CVNA	Calvinia	
CVO	Covasna	
CVP	Callao Caves	
CVPM	Vollmer Peak	
CVR	Calaveras Reservoir	
CVRD	Centerville Road, Mineral	
CVS	Carmenet Vineyards, Sonoma	
CVT	Castelvetrano	
CVTN	Covington	
CV-TN	Centerville	
CVTR	Volcan Turrialba	
CVV	Charlottesville	CVL
CVVA	Charlottesville	
CVVD	Valverde	
CW-	Conway	CW-AR
CW-AR	Conway	
CWB	Cumshewa	
CWC	Cottonwood Creek, Lone Pine	
CWCR	Coldwater Canyon	
CWF	Charnwood Forest	
CWPT	Cottonwood Point	
CWT	Childress 7	
CWU	Camp Williams	
CWZ	Cowlitz River	
CX-	Craigsville	CX-WV
CXM	Morne La Croix	
CXP	Puebla	
CX-WV	Craigsville	
CY-	Cheyenne	CY-WY
CYA	Choya	
CYBM	Yerba Buena Island	
CYC	Crow Canyon Road	
CYD1	Coyote D'meter	
CYEH	Changyeh	
CYH	Coyote Hills	
CYK	Cape Yakataga	
CYN	Coyotepe	
CYP	Chylin	
CYT	Cape Yakataga	
CY-WY	Cheyenne	
CYZ	Clyde	
CZ-	Cody	CZ-NB
CZ01	CZ01	
CZ03	CZ03	
CZ04	CZ04	
CZ05	CZ05	
CZ06	CZ06	
CZ07	CZ07	
CZ08	CZ08	
CZ10	CZ10	
CZA	CZA	
CZC	Chiapa de Corzo	
CZD	Col de Zad	
CZI	Monte Cocuzzo	
CZL	Cerro Azul	
CZM	Crazy Man Mountain	
CZ-NB	Cody	
CZSB	Cruzeiro do Sul	
CZT	Chizu	
D002	Pieve de Saddi	
D01	D01	
D03A	Wishkah Elem. School, Wishkah	
D03D	Eldon	
D04A	Dobbs Creek Ranch, Lacey	
D04D	Lakebay	
D04E	Lakebay	
D05A	Enumclaw	
D06A	Cle Elum	
D07A	Quincy	
D08A	Wollman Farm, Schrag	
D09A	Jones Farm, Ritzville	
D10A	Wagner Farm, Oakesdale	
D11A	Klaveano Farm, Fernwood	
D12A	Red Ives Forest Station, Avery	
D13A	Huson	
D14A	Greenough	
D15A	Lincoln	
D16A	Dana Ranch, Cascade	
D17A	Six Diamond Ranch, Ranyesford	
D18A	Linhart Farms, Moccasin	
D19A	Cripps Ranch, Grass Range	
D1A	Dickey	
D20A	Manuel Ranch, Winnett	
D21A	La Casta Ranch, Jordon	
D22A	Cohagen	
D23A	Lindsay	
D24A	Glendive	
D25A	Fairfield	
D26A	Manning	
D27A	Center	
D28A	Regan	
D29A	Pettibone, Tappen	
D2A	Dickey	
D30A	Buchanan	
D31A	Mcclaflin, Tower City	
D32A	Dogwood Acres, Gardner	
D33A	AnnSam, Waubun	
D34A	Park Rapids	
D35A	Remer	
D36A	Goodland	
D37A	Cotton	
D3A	Dickey	
D41A	Chassel	
D46A	Sault St. Marie	
D47A	Chapleau	
D48A	Paudash Township	
D49A	Beulah Township	
D4A	Dickey	
D50	D50	
D50A	G1974 Best Township, ON	
D51	D51	
D51A	Lot 18 Range III Mazenod Township	
D52A	ZEK Kipawa Senerzegues Township	
D53	D53	
D53A	Lac Vacive, Pontiac, Mrc	
D54A	Lac Fusel, La Vallee-de-La-Gatineau	
D55A	Sainte-Anne-du-Lac	
D56A	ZEC Mazanza, Mont-Saint-Michel	
D57A	Chemin Vers le Barrage, Saint-Michel-Des-Saints	
D58A	Chemin du LacGrosbois, Trois-Rives	
D59A	Saint-Raymond	
D5A	Dickey	
D60A	Saint Jean D'Orleans	
D61A	St Aubert, Comte d'Islet	
D62A	Allapoint, Allagash	
D63A	Stockholm	
D6A	Dickey	
DABA	Dabaa	
DABAA	Dabaa2	
DABV	Dabajuro	
DAC	Darwin (Calif)	
DACB	Daecheong-do Republic of korea	
DAD	Ankara	
DAF	Dafare	
DAG	Danmarks Havn	
DAGI	Agillar	
DAGMA	Lutertal, Dagmarsellen	
DAH	Dandelion	
DAI	Luda	
DAIL	Da Vinci Academy	
DAK	Dakar	
DAKH	Dake	
DAL	Dallas	
DALG	Dalton	
DALK	Dalny	
DALT	Dalyan (Mudla)	
DALY	Dalyan (Mu¨la)	
DAM	Dampier	
DAM1	Diamer-Basha	
DAMV	Damavand	
DAMY	Dhamar	
DAN	Dane	
DANC	Danby, Needles	
DANN	Dangsing	
DANY	Dannemora	
DAP	Davao	
DAQ	Lac Daran	
DAR	Darwin	
DAR1	Darband	
DARB		
DARE	Darende-Malatya	
DARS	Darpas	
DAT	Datca	
DATC	Datca-Mugla	
DAU	Daniels Canyon	
DAV	Davao City (W)	
DAVA	Damuels	
DAVON	Davos	
DAVOS	Davos	
DAVOX	Davos/Dischmatal	
DAW	Hoskins	
DAWS	Dawson Inlet	
DAWY	Dawson	
DAY	Day	
DB2	Double Butte	
DBAD	Bademkaya	
DBAS	Duba	
DBBC	Dabeiba	
DBC	Dubki	
DBCC	Dabeiba, Colombia	
DBCT	Belle View Chopil	
DBD	Des Bee Dove	
DBG	Daneborg	
DBI	Debin	
DBIC	Dimbokro	
DBJI	Dramaga	
DBM	Double Mountain	
DBMY	Dunderburg Mountain	
DBN	De Bilt	
DBND	Deoband	
DBNI	Kabupaten Dompu	
DBO	Dodson Butte	
DBOC	Borcka	
DBOG	Casa Diablo	
DBP	Darband	
DBQ	Dubuque	
DBR	Dubrovnik	
DBRK	Dubrovnik	
DBV	Dienbien	
DBY	Dobrovo	
DCA1	Bonanza	
DCA2	Baytree	
DCA3	Cotillion Park	
DCC	Delcommune	
DCD	Diablo Creek	
DCI	Dry Creek	
DCID1	Drake Creek	
DCM	Dugout Coal Mine	
DCN	Croghan	
DCO	Combe Farm	
DCP	Dickinson College	
DCPH	Dipolog City	
DCT	Ducktown	
DCU	Deer Creek Reservoir	
DCZ	Deep Cove	
DDBM	Dartmouth Bedrock	
DDCM	Dartmouth Crest	
DDEM	Demirkent	
DDFL	Dedoflistskaro	
DDI	Dehra Dun	
DDIM	Ayd¨—n/Didim	
DDJ	Jaglot	
DDK	Dunsink Observatory	
DDM	Donnelly Dome	
DDMP	Don Marcelino, Davao Occidental, Philippines	
DDN	Dodoni	
DDR	Dodaira	
DDS	Dosso del Sommo	
DEB	Debrecen	
DEC	Deception Island	
DECC	Green Verdugo Microwave Site, Sunland	
DED	Mersin	
DEG	La Desirade	
DEI	Dent	
DEIG	Demacu	
DEK	Dekalb	
DEL	Delary	
DEL1	Delary	
DELE	Ethiopian Broadband Seismic Experiment	
DELI	KIRIKKALE	
DELO	Deloro Mine	
DELX	Delta	
DEMA	Delaware Emergency Management Agency	
DEMI	Demirci	
DEMR	Demre-Antalya	
DEN	Denver	
DENJ	Denville	
DENT	Denizli	
DEPR	Deputatskiy	
DER	Derby	
DERT	Derbent	
DES	Desert	
DESE	Dese	
DESF	Desfina	
DEV	Deva	
DEVC	Devers	
DEVR	Zonguldak/Devrek-Atalar	
DFBT	Forest Bistro	
DFE	Dawson Falls	
DFR	Drift River	
DFRA	Djebel Bou Affroun	
DGAR	Diego Garcia	
DGB	¨zmir	
DGBT	Grand Bay	
DGC	Durango	
DGI	Dorgali Grotta	
DGMT	Dagmar	
DGN	Dgnorisa	
DGP	Dabrowa Gornicza	
DGPR	DIGLIPUR	
DGR	Domenigoni Valley Reservoir	
DGRG	David-gareji	
DGS	Degeres	
DGT	Duragan	
DGZ	Jazzator, Altay Republic, Russia	
DH-	Delhi	DH-NY
DHA	Dutch Harbor	
DHAK	Deception Hills	
DHB	Downhole Baldwin Hills	
DHBB	Dhama@18r BB	
DHD	Dharwar	
DHDN	Dehradun	
DHH	Diamond Head	
DHJN	Dharan Janob	
DHLJ	Dahal	
DHLQ	Lac-des-Plages	
DHMR	Dhamar	
DHN	Doyle Hill	
DH-NY	Delhi	
DHO	Dhodishal	
DHR	Dhahran	
DHRM	DHARAMSHALA	
DHRN	Dharma Camp	
DHS	Desert Hot Springs	
DHUB	DHUBRI	
DHV	Doan Hung	
DHW	Dyer Hill	
DHW2	Dyer Hill 2	
DHY	Denali Highway	
DI-	Dillon	DI-MA
DIAC	La Diana	
DIAM	Diamantina, MG	
DIB	Dawson Inlet, BC	
DIBR	DIBRUGARH	
DIC		
DID	Didima	
DIDI	Didim-Aydin	
DIDY	Didyma	
DIGO	Kars	
DIGR	Digorskoe uzhel'e	
DIKE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
DIKM	Dikmen	
DIL	Dillon Ranch	
DILA	Dilla	
DILR	Dilar	
DIM	Dimitrovgrad	
DI-MA	Dillon	
DIMI	Dimona	
DIMT	Dimitropoulo, Aigialia, West Greece	
DINX	Tingri, Xizang Zizhiqu	
DION	Dionisos Attiki	
DIP	Dipolog	
DIR	Diamond Ranch	
DIV	Divide	
DIVS	Divibare	
DIW	D'Urville Island	
DIX	Grande Dixence	
DIXR	Dixie Hot Springs	
DIY	Diyarbakir	
DIYA	Diyarbakir	
DIYAX	Ethiopian Broadband Seismic Experiment	
DJA	Jakarta	
DJE	Delta Junction E	
DJES	Djerdap	
DJISU	ISU Dolj	
DJJ	Donna J Jenkins	
DJK	Dyngjujokull	
DJNS	Zahran al Janub	
DJO	Djoy, Khakassia, Russia	
DJOS	Djoyskaya Sosnovka, Khakassia, Russia	
DJR	Jarkent	
DKD	Dar Kodiat	
DKH	Dar Kharkhour	
DKL	Dikili	
DKM	Kilmashogue	
DKNM	Devils Kitchen North	
DKP	Demirkopru	
DL-	Dell Rapids	DL-SD
DL2	Dalian	
DLA	Delaware (Ont)	
DLAC	Del Amo	
DLAR	Dell	
DLB	Dease Lake	
DLBC	Dease Lake	
DLBQ	Dalbeg	
DLC	Deerlick Creek	
DLE	Lyons Estate	
DLF	Lyons Farm	
DLFA	Delphi	
DLG	Dolgoi Island	
DLH	Dalhousie	
DLI	Dili	
DLL	Dillingham	
DLM	Delamar Mountains	
DLMR	Dylym	
DLMT	Dillon	
DLN	Dalton (NSW)	
DLPL	La Plaine	
DLS	Dallas	
DL-SD	Dell Rapids	
DLT	Dalton	
DLV	T a@11 Lat	
DLVO	T a@11 Lat	
DLVT	Layou Valley	
DLY	Dezadeash Lake	
DMA	Devil Mountain	
DMB	Deadman Bay	
DMCQ	Dolbeau-Mistassini	
DMD	Domodossola	
DMI	Des Moines	
DMK	Demirkoy	
DMLN	Damoulianata-Kefalonia-Greece	
DMMT	Dalton Mountain	
DMN	Daman	
DMNI	Dmanisi	
DMNS	Dmanisi	
DMP	Diadem	
DMPH	Davao City--Mintal	
DMPK	Deadman Peak	
DMRK	Ethiopian Broadband Seismic Experiment	
DMS	Dublin Merrion Square	
DMT	Demirtas	
DMTO	DMTO	
DMU	Kingscourt	
DMUB	Kingscourt	
DMV	Demmitville	
DMW	Delta Microwave	
DND	Dunedin-Penfold	
DNG	Daru	
DNGQ	Doongara	
DNH	Durham (NH)	
DNM	Dulce	
DNN	Dannevirke	
DNP	Denpasar	
DNR	Dunn Ranch,Anza	
DNS	Denniston	
DNSO	Sydney	
DNT	Denton	
DNY	Dersam	
DNZ	Dunedin	
DNZL	Cakiroluk	
DOB	Doboj	
DOBAM	Dobrich	
DOBS	Dobrina	
DOC	Dochia	
DOCK	Docker River	
DOD	Dodoma	
DODA	Doda	
DODM	Dodoma	
DODT	Dodoma, Tanzania	
DOETR	Doetra (Olivone)	
DOG	Dongo Capesterre	
DOGA	KONYA_Doganhisar	
DOI	San Damiano	
DOL	Dolgoi Island	
DOLA	Dholavira	
DOM	Dominica	
DOMB	Dombas	
DOMF	Dompierre	

Code	Station Name	Other
DOMO	Domo	
DOMR	Dombai	
DON	Dongola	
DONB	Dongobesh	
DONE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
DONG	Nakchu	
DONR	Donner Summit	
DOO	Doolan Road	
DOOR	DOOR	
DOPR	Dopca	
DOR	Dorot	
DORT	Dortyol-Hatay	
DOS	Dos Bocas Dam	
DOSS	Dosso del Sommo	
DOT	Dot Lake	
DOU	Dourbes	
DOWB	Downie Slide	
DOY	Duke of York Island	
DP-	Deposit	DP-NY
DP1	Deserto P. S.	DPS
DPC	Dobruska-Polom	
DPD	Davis Peak	
DPDB	Guoxing	
DPH	Darwin Parliament House	
DPI	Dunn Peak	
DPLY	Delli Paoli	
DPM	Delmo Park	
DPMT	Pointe Michel	
DP-NY	Deposit	
DPP	Dos Picos Cty Pk	
DPQ	Saint Jean	
DPRB	Downie Pk Ridge	
DPS	Deserto Penisola Sorrentina	
DPW	Davenport	
DQM	DQM	
DQRL	Deir Qamar	
DR-	Durango	DR-CO
DR01	Juana Nunez	
DR02	San Jose de las Matas	
DR03	Pinalito	
DR04	Monte Llano	
DR05	La Lomota	
DR06	La Diferencia	
DR07	Jarabacoa	
DR08	Loma La Naviza	
DR09	Piedra Blanca	
DR1	Juana Nunez	DR01
DR10	Alto Bandera	
DR11	La Yayitas	
DR12	Loma Pena Alta	
DR13	Sanchez	
DR14	Sierra Prieta	
DR15	Siete Picos	
DR3	Pinalito	DR03
DR4	Monte Llano	DR04
DR5	La Lomota	DR05
DR6	La Diferencia	DR06
DR8	Loma La Naviza	DR08
DRA	Dragasani	
DRA2	DRAMA	
DRAG	Dragano-Lefkada	
DRAM	Dora Dora	
DRB	Dursunbey	
DRBT	Darb Altahta	
DRC	Dorchester	
DRCO	St. Marys Cement	
DR-CO	Durango	
DRD	Roodepoort, Johannesburg	
DRE	Drenchia	
DREC	Desert Rsrch Ctr	
DREG	Dreilaegerbach Talsperre	
DREO	Darlington East Ontario	
DREZ	Durham Road	
DRGI	Dragot	
DRGR		
DRHJ	Al-Direh	
DRIA	Deer Island	
DRK	Karamyk	
DRK0	Durika	
DRL	Darel	
DRLN	Deer Lake	
DRME	Dracevica, Montenegro	
DRN	Derbent	
DRO	Drossia	
DROM	Dromana	
DRP	Derazinda	
DRR	Dragan	
DRRA	Deer Island	
DRS	Darwin Rock Store	
DRT	Dartmouth	
DRTD	Roseau, Dominica	
DRTN	Dyersburg	
DRTT	Dortyol	
DRUM	Mains of Drumtochty	
DRV	Dumont d'Urville	
DRWC	Darouich	
DRWO	Darlington West	
DRZ	Dome Shelter	
DSB	Dublin	
DSB1	Difesa San Luca	
DSC	Scotts Head	
DSCC	Desert Studies Ctr	
DSCH	Colegio Aleman	
DSD2	Dead Sea Dam 2	
DSF	Desfina	
DSG	Desaguadero	
DSH	Dushanbe	
DSHT	Scott's Head	
DSI	Dead Sea	
DSK	Disk Island	
DSL	Palaion Diasellon	
DSLB	Salisbury	
DSM	Dog Skin Mountain	
DSMN	Discovery Mine	
DSN	Dusing	
DSNO	Creighton Mine,Sudbury	
DSP	Deep Springs	
DSPA	Despedida	
DSRI	Dabo	
DST	Dursunbey	
DSTT	Stowe	
DSV	Doi Son	
DSVT	Soufriere Village	
DSZ	Denniston North	
DT1	Dutton Round Hill	
DTEM	Dunmovintown East	
DTIR	Bucuresti-Nicolae Titulescu	
DTM	Carnegie Institution of Washington	
DTMM	Dartmouth Digital	
DTMT	Tete Morne	
DTN	Dwight	
DTNA	Dutton South Flank	
DTP	Desert Tortoise Park	
DU-	Durant	DU-OK
DUB	Rathfarnham	
DUB01	Friburgo-RJ	
DUC	Duarte Ranch	
DUG	Dugway, Tooele County	
DUGI	Dugi Otok	
DUI	Duronia	
DUL	Duluth	
DUN	Dundo	
DUNH	University New Hampshire, Durham	
DUNO	DUNO	
DUNU	Dundret	
DUOK	Dugi Otok	
DU-OK	Durant	
DUP	Duppenweiler	
DUR	Durham	
DURS	Dursunbey	
DUS	Dusheti	
DUSS	Damascus University	
DUT	Dutch Harbor	
DUWZ	D'Urville Island	
DUX	Duxbury	
DUYS	Dunai	
DV-	Death Valley	DV-CL
DVBM	Devilbend	
DV-CL	Death Valley	
DVCT	Vielle Casse Police Station	
DVD	David	
DVDT	Valley Desolation	
DVE	Vedeno	
DVG	Divnogorsk	
DVHZ	Dannevirke	
DVI	Derveni	
DVKN	Diavik Mine	
DVL	Devil Canyon	
DVO	Downsview	
DVP	Devils Point	
DVR	Devrek	
DVT	Derby	
DVTC	Desert View Tower, Jacumba	
DVW	Davenport	
DWDM	Dogwood	
DWK		
DWM	Dogwood	
DWP	Davao Weather Station	
DWPF	Disney Wilderness Preserve, Florida	
DWR	Dweir	
DWS	Wesley	
DWU	Dry Willow Peak	
DWY	Dawson City	
DXB	Duxbury	
DY-	Dry Ridge	DY-KY
DY1	Dyersburg	
DY2	Lassiter	
DY3	Tiptonville	
DY4	Samburg	
DY5	Near Lassiter	
DYA	Yadsworthy	
DYBB	Diyarbakir	
DYDN	Diyadin	
DY-KY	Dry Ridge	
DYR	Agios Nikonas	
DYTN	Dayton	
DZA	Taraz	
DZB	Cabrayil	
DZBM		
DZD	Dalandzadgad	
DZE	Dzherino	
DZEE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
DZET	Dzherino	
DZH	Dzhafr	
DZI	Dzhizak	
DZM	Mont Dzumac	
DZN	Dzhankel'dy	
DZR	Jermuk	
DZT	Dzhirgatal'	
E001	Sierra del Retn, Cadiz	
E002	Puerto del Bujeo, Cadiz	
E005	Casares, Malaga	
E006	Caete la Real, Malaga	
E007	Orjiva, Granada	
E008	San Bartolome de la Torre, Huelva	
E009	Beas, Huelva	
E010	Palacio de Doana, Huelva	
E011	Adriano, Sevilla	
E012	Marchena, Sevilla	
E013	Torcal de Antequera, Malaga	
E015	Alquife, Granada	
E016	Rosal de la Frontera, Huelva	
E017	Aznalcollar, Sevilla	
E018	Embalse de El Pintado, Sevilla	
E019	El Pedroso, Sevilla	
E020	Santaella, Cordoba	
E021	Villaviciosa de Cordoba, Cordoba	
E022	Bujalance, Cordoba	
E024	Martos, Jaen	
E025	Huelma, Jaen	
E026	Sierra de Lcar, Granada	
E028	Jerez de los Caballeros, Badajoz	
E029	Usagre, Badajoz	
E030	Peraleda del Zaucejo, Badajoz	
E031	Las Morras, Villanueva del Duque, Cordoba	
E032	Castillo de Giribaile, Vilches, Jaen	
E033	Ojanco, Jaen	
E034	Letur, Albacete	
E035	Torrevieja, Alicante	
E03A	Lebam	
E04A	Onalaska	
E04D	Cinebar	
E05A	Randle	
E06A	Yakima	
E07A	Sunnyside	
E07B	Bay Bridge East Pier 7	
E08A	Dider Farm, Eltopia	
E09A	Wood Farm, Starbuck	
E1001	Ethiopia-Afar Geoscientific Lithospheric Experiment E1001	
E1008	Ethiopia-Afar Geoscientific Lithospheric Experiment E1008	
E1011	Ethiopia-Afar Geoscientific Lithospheric Experiment E1011	
E1012	Ethiopia-Afar Geoscientific Lithospheric Experiment E1012	
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E1016	Ethiopia-Afar Geoscientific Lithospheric Experiment E1016	
E1017	Ethiopia-Afar Geoscientific Lithospheric Experiment E1017	
E1018	Ethiopia-Afar Geoscientific Lithospheric Experiment E1018	
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E1021	Ethiopia-Afar Geoscientific Lithospheric Experiment E1021	
E1022	Ethiopia-Afar Geoscientific Lithospheric Experiment E1022	
E1023	Ethiopia-Afar Geoscientific Lithospheric Experiment E1023	
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E1094	Ethiopia-Afar Geoscientific Lithospheric Experiment E1094	
E1097	Ethiopia-Afar Geoscientific Lithospheric Experiment E1097	
E10A	Myers Farm, Uniontown	
E1101	Ethiopia-Afar Geoscientific Lithospheric Experiment E1101	
E1105	Ethiopia-Afar Geoscientific Lithospheric Experiment E1105	
E1110	Ethiopia-Afar Geoscientific Lithospheric Experiment E1110	
E1112	Ethiopia-Afar Geoscientific Lithospheric Experiment E1112	
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E1124	Ethiopia-Afar Geoscientific Lithospheric Experiment E1124	
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Experiment E1182
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E1197 Ethiopia-Afar Geoscientific Lithospheric Experiment E1197
E1199 Ethiopia-Afar Geoscientific Lithospheric Experiment E1199
E11A Bogner Ranch, Nez Perce
E1201 Ethiopia-Afar Geoscientific Lithospheric Experiment E1201
E1204 Ethiopia-Afar Geoscientific Lithospheric Experiment E1204
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E1296 Ethiopia-Afar Geoscientific Lithospheric Experiment E1296
E12A Beaver Dam Saddle, Pierce
E1301 Ethiopia-Afar Geoscientific Lithospheric Experiment E1301
E1303 Ethiopia-Afar Geoscientific Lithospheric Experiment E1303
E1308 Ethiopia-Afar Geoscientific Lithospheric Experiment E1308
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E13A Victor
E1400 Ethiopia-Afar Geoscientific Lithospheric Experiment E1400
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E1443 Ethiopia-Afar Geoscientific Lithospheric Experiment E1443
E14A Clinton
E15A Deer Lodge
E16A East Helena
E17A Martinsdale
E17B Bay Bridge East Pier 17
E18A Harlowton
E19A Rath Farm, Roundup
E20A Meyer Farm, Musselshell
E21A Keefer Ranch, Vananda
E2214 Ethiopia-Afar Geoscientific Lithospheric Experiment E2214
E2215 Ethiopia-Afar Geoscientific Lithospheric Experiment E2215
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E22A Miles City
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Geoscientific
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Experiment E2388
E2396 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2396
E23A Ismay
E2425 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2425
E2428 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2428
E2430 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2430
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Lithospheric
Experiment E2431
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Lithospheric
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Experiment E2437
E2441 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2441
E2449 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2449
E2451 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E2451
E24A Baker
E25A Miller Ranch, Amidon
E26A Carlson Angus Ranch, Regent
E27A Carson
E28A Huff
E29A Napoleon
E30A Jud
E31 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E31
E3105 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3105
E3107 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3107
E3110 Ethiopia-Afar
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Experiment E3110
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E3120 Ethiopia-Afar
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Experiment E3120
E31A Nome
E32 Ethiopia-Afar
Geoscientific
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Experiment E32
E3205 Ethiopia-Afar
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E3212 Ethiopia-Afar
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E3213 Ethiopia-Afar
Geoscientific
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Experiment E3213
E3214 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3214
E3218 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3218
E3221 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3221
E3224 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3224
E3225 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3225
E3228 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3228
E32A Braaten, Kindred
E33 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E33
E3300 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3300
E3303 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3303
E3304 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3304
E3323 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3323
E33A Westby DABS, Erhard
E34 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E34
E3404 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3404
E3414 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3414
E34A Wadena
E35 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E35
E3518 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3518
E3520 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3520
E3521 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3521
E3523 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3523
E3524 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3524
E3525 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3525
E3527 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3527
E3528 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3528
E3529 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3529
E35A Pequot Lakes
E36 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E36
E3603 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3603
E3604 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3604
E3605 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3605
E3606 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3606
E3609 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3609
E3621 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3621
E36A McGregor
E37 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E37
E3701 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3701
E3702 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3702
E3704 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3704
E3706 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3706
E3713 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3713
E3714 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3714
E3715 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3715
E3726 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3726
E3729 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3729
E3730 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3730
E3738 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3738
E3742 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3742
E3743 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E3743
E37A Wrenshall
E38A The Farm, Brule
E39 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E39
E39A Mellen
E40 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E40
E40A Wakefield
E41 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E41
E41A Kenton
E42 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E42
E42A Champion
E43 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E43
E43A Lone Tree Farm, Eben Junction
E44 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E44
E44A Grand Marais Airport, Grand Marais
E45 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E45
E45A Wooded Hills, Hulbert
E46 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E46
E46A Sault Ste Marie
E47 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E47
E47A Iron Bridge
E48 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E48
E48A Lockeyer
E49 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E49
E50 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E50
E50A Wahnapitae
E51 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E51
E51A G1948 Merrick Township
E52 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E52
E52A Mattawa
E53 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E53
E53A Dumoine, Pontiac MRC
E54 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E54
E54A Lac Daplat, Pontiac, MRC
E55 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E55
E55A Montcerf-Lytton
E56 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E56
E56A St. Veronique
E57 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E57
E57A Chemin Saint Guillaume, Saint Donat
E58 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E58
E58A La Victoria
E59 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E59
E59A St. Maurice
E60 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E60
E60A Ste Agathe de Lotbiniere,
E61 Ethiopia-Afar
Geoscientific
Lithospheric
Experiment E61

Code	Station Name	Other
E61A	Lac Etchemin	
E62A	Clayton Lake	
E63	Ethiopia-Afar Geoscientific Lithospheric Experiment E63	
E63A	Oxbow	
E64	Ethiopia-Afar Geoscientific Lithospheric Experiment E64	
E64A	Bridgewater	
E66	Ethiopia-Afar Geoscientific Lithospheric Experiment E66	
E67	Ethiopia-Afar Geoscientific Lithospheric Experiment E67	
E68	Ethiopia-Afar Geoscientific Lithospheric Experiment E68	
E69	Ethiopia-Afar Geoscientific Lithospheric Experiment E69	
E70	Ethiopia-Afar Geoscientific Lithospheric Experiment E70	
E71	Ethiopia-Afar Geoscientific Lithospheric Experiment E71	
E72	Ethiopia-Afar Geoscientific Lithospheric Experiment E72	
E73	Ethiopia-Afar Geoscientific Lithospheric Experiment E73	
E74	Ethiopia-Afar Geoscientific Lithospheric Experiment E74	
E75	Ethiopia-Afar Geoscientific Lithospheric Experiment E75	
E76	Ethiopia-Afar Geoscientific Lithospheric Experiment E76	
E77	Ethiopia-Afar Geoscientific Lithospheric Experiment E77	
E78	Ethiopia-Afar Geoscientific Lithospheric Experiment E78	
E79	Ethiopia-Afar Geoscientific Lithospheric Experiment E79	
E80	Ethiopia-Afar Geoscientific Lithospheric Experiment E80	
E82	Ethiopia-Afar Geoscientific Lithospheric Experiment E82	
E83	Ethiopia-Afar Geoscientific Lithospheric Experiment E83	
E84	Ethiopia-Afar Geoscientific Lithospheric Experiment E84	
E85	Ethiopia-Afar Geoscientific Lithospheric Experiment E85	
E932	Embalse del Gaudalen, Jaen	
EAB	Aberfoyle	
EACI	Aci Sant'Antonio	
EADA	Adamuz	
EADB	Eade Ranch	
EAFB	Elmendorf Base	
EAG	Eagle Mountain	
EAGO	Agolada(Pontevedra)	
EAK	Akyaka	
EALB	Alboran	
EALH	Alhama de Murcia	
EALK	Alkurruntz	
EAM	Ear Mountain	
EAN	East Aurora	
EANR	'Ain N'Sour	
EARA	Aranguren	
EARC	Monte Arcimis	
EARI	Arriondas	
EARN	East Ridge Elementary School	
EAST	Anshuo	
EASTN	East End Reserv.	
EASY	Easy	
EATA	Eleskirt	
EAU	Auchinoon	
EAV	Pico El Aguila	
EAZ	Earnscleugh	
EB-	East Braintree	EB-MT
EBAD	Badajoz	
EBAJ	Bajamar	
EBAN	Banos Encina	
EBCN	Bocca Nuova	
EBEL	Etna Belvedere	
EBEN	Beniarda	
EBEN2	Beniarda presa Alicante	
EBER	Berja	
EBG	Ellensburg	
EBH	Black Hill	
EBHM	Djebel Bou Ahmed	
EBI	Elk Butte	
EBIE	Bielsa	
EBL	Broad Law	
EBM	Esen Bulak	
EB-MT	East Braintree	
EBN	Edmundston	
EBNR	Beni Rached	
EBOM	Djebel Bou Maad	
EBP	Ebbets Pass	
EBR	Ebro Roquetas	
EBRE	Ebro Roquetas	
EBS	Eagle Butte	
EBYL	Djebel Bou Yalou	
EBZ	Ebenezer Church	
ECA	El Cajon	
ECAB	El Cabril	
ECAL	Calabor	
ECALA		
ECAN	Masseria Cannata	
ECAT	Cat-ERZURUM	
ECB	Carrickbyrne Hill	
ECBD	Case Bada	
ECBX	El Chinero	
ECC	El Centro	
ECCO	Edison CC	
ECCS	Contrada Cassone	
ECD	Elk Chute Ditch	
ECDV	Codavolpe	
ECEA	ˆanakkale/Eceabat-Seddulbahir	
ECEN	Cerro Negro	
ECEU	Ceuta	
ECF	Echo Falls	
ECG	Echelle	
ECH	Echery	
ECHA	Ech Chlef	
ECHE	Chera	
ECHF	Ech Chlef	
ECHI	Chisagues Bielsa	
ECHR	Santa Chiara	
ECIS	Cisternazza	
ECK	Cauldkaine Hill	
ECL	Taimali	
ECM	Ellicott City	
ECML	Castelmola	
ECNE	Crateri Nord Est	
ECNV	Catenanuova	
ECNX	Esteban Cantu	
ECO	Colon	
ECO2	Colon	
ECOG	Cogollos-Vega	
ECOPE	Copete-Rev Volc	
ECP	Carnsore Point	
ECPN	Case del Piano	
ECR	Eagle Creek	
ECRI	Cripan	
ECSD	EROS Data Center, Sioux Falls	
ECT	Ellsworth	
ECTS	Castiglione	
ECVS	Case del Vescovo	
ECX	Ensenada	
ECZ	East Cape	
ECZM	Case Zampini	
ED-	Edgewood	ED-MI
EDB	Eliza Dome	
EDBA	Buenos Aires	
EDC	Edincik	
EDC*	EscuelaIngenieria	
EDDO	Dominical	
EDEN	Eden	
EDFI	Ende, Flores	
EDI	Edinburgh	
EDIL	So. Illinois U.	
EDIT	Edith	
EDK	El Dorado	
EDLM	Las Mercedes	
EDM	Edmonton	
EDMA	Eldorado	
EDMD	Edmundbyers	
ED-MI	Edgewood	
EDMN	Edmundston, New Brunswick	
EDO	Endilloe	
EDPN	Palmar Norte	
EDR	Drumtochty	
EDRB	Edirne	
EDRZ	Edgecumbe	
EDS3	Malargue	
EDSV	San Vito	
EDT	Edincik	EDC
EDU	Dundee	
EDW	Edwards Air Force Base,Rosamund	
EDW2	Edwards Air Force Base 2, Rosamond	
EDY	Kabakon Island	
EDZN	EDZO	
EEO	Eldee	
EF-	Eagle Flat	EF-TX
EFAM	Famara	
EFD	Emergency Operations Facility	
EFI	East Falkland Island	
EFIU	Fiumefreddo	
EFO	Effingham	
EFOR	EFORIE	
EFP	Efpalio	
EFR	Efringen	
EFSA	Agios Efstratios	
EF-TX	Eagle Flat	
EGA	Jian Township	
EGAK	Eagle	
EGC	Eagle	
EGD	Espegrend	
EGFH	Guangfu	
EGFM	Gr delle femmine	
EGI	Egilsstadhir	
EGL	Gala Law	
EGL1	Gala Law	
EGM	El Golfo de Santa Clara	
EGMT	Eagleton	
EGN	Eagle's Nest	
EGOM	La Gomera	
EGOR	Sierra Gorda, Loja, Granada	
EGR	Empire Grade Road	
EGRA	Graus	
EGRN	Evergreen College	
EGRO	El Granado	
EGS		
EGSI	Enggano, Bengkulu	
EGUA	Guajares	
EGV	Egvekinot, Chukotka	
EGVZ	Egvard	
EGX	Santa Clara	
EHC	Hejung	
EHIG	Higuera	
EHN	Echo Peak	
EHOR	Hornachuelos	
EHP	Heping Village	
EHRO	Hierro	
EHUE	Huescar	
EHV	El Hato	
EHY	Hungye	
EIBI	Ibiza	
EIC	Easter Island	
EIDS	Eidsvold	
EIL	Elat	
EILF	Villa Eilenroc - Antibes	
EINC	Incio	
EISP	Ispir	
EJC	Estacion Juarez	
EJDE	Erzurum, Palandoken	
EJIF	Jimena Frontera	
EJIM	Jimena Frontera	
EJON	La Jonquera	
EK-	Eureka (L)	EK-NV
EKA	Eskdalemuir Array	
EKAR	Karacoban	
EKB	Eskdalemuir	
EKB1	Eskdalemuir Array Site B1	
EKB10	Eskdalemuir Array Site B10	
EKB2	Eskdalemuir Array Site B2	
EKB3	Eskdalemuir Array Site B3	
EKB4	Eskdalemuir Array Site B4	
EKB5	Eskdalemuir Array Site B5	
EKB6	Eskdalemuir Array Site B6	
EKB7	Eskdalemuir Array Site B7	
EKB8	Eskdalemuir Array Site B8	
EKB9	Eskdalemuir Array Site B9	
EKC	Ekona	
EKG	Eskdalemuir	EKB
EKH	Elkhorn Ranch	
EKMR	Ekimchan	
EKN	Konogogo	
EK-NV	Eureka	
EKO	Elko	
EKR	Elk River	
EKR1	Eskdalemuir Array Site R1	
EKR10	Eskdalemuir Array Site R10	
EKR2	Eskdalemuir Array Site R2	
EKR3	Eskdalemuir Array Site R3	
EKR4	Eskdalemuir Array Site R4	
EKR5	Eskdalemuir Array Site R5	
EKR6	Eskdalemuir Array Site R6	
EKR7	Eskdalemuir Array Site R7	
EKR8	Eskdalemuir Array Site R8	
EKR9	Eskdalemuir Array Site R9	
EKS	Erkin-Say	
EKS2	Erkin-Say	
EKSU	Eksjoe	
EKTN	Ekati Mine	
EKU	East Kanab	
EL-	Ellensburg	EL-WA
EL2	El Mirage 2	
EL6	Elcito	
ELA	Elazig	
ELAGU	Cayambe Volc	
ELAN	Lanestosa	
ELB	Lambom Island	
ELBA	Catalca	
ELBS	KAHRAMANMARAS_ Elbistan	
ELC	Elco	
ELD	Ethyl Lake Duckett	
ELDR	Elanda	
ELDT	Eldivan	
ELDTW	Lidau	
ELF	Elginfield	
ELFO	Elginfield	
ELFS	Eagle Lake Field Station, Susanville	
ELGO	Elora Gorge	
ELGU	Los Guajares, Granada	
ELI	Lubumbashi	
ELIB	Princess Elisabeth base, Queen Maud Land, Antarctica	
ELIJ	Sierra de Lijar	
ELIM	Elim	
ELIZ	Elizondo	
ELK	Elko	
ELL	Elmali	
ELLO	Elliot Lake	
ELM	Elma	
ELMC	El Mirage	
ELMO	Cerro Moro	
ELMT	Elliston	
ELN	Prospectdale	
ELNB	Elgin, New Brunswick	
ELND	Elena	
ELNV	Ellenville	
ELO	Logie Almond	
ELOB	Lobios	
ELOJ	Sierra Loja	
ELOV	Elorza	
ELP	El Pangue	
ELPA	Fila Paraiso	
ELQ	El Quisco	
ELRC	Elmore Ranch	
ELRO	Cerro El Roble	
ELS	Elsinore Mountain	
ELSH	Elham, Standardhill Farm (Kent)	
ELT	Eltsovka	
ELT0	Eltsovka	
ELU	Electric Lake	
ELUQ	Luque	
ELV	Elvey	
ELVI	Sierra Elvira	
ELW	Echo Lake	
EL-WA	Ellensburg	
ELY	Ely	
ELYF	Elaudy	
ELZ	Elazig	
ELZG	Elazig	
EM-	Emporia	EM-KA
EMA	Elm	
EMAL	Malaga-Limonero	
EMAR	Monte Arcimis	
EMAZ	Mazaricos	
EMB	Emerald Bay	
EMBD	Embd, Mattertal	
EMCN	Etna Monte Conca	
EME	Emae	
EMEL	Melilla	
EMFO	Monte Fontane	
EMFS	Etna Monte Frumento Supino	
EMGR	Monte Grosso	
EMHD	Djebel Mahouada	
EMI	Eightmile Canyon	
EMIJ	Mijas	
EMIL	Monte Intraleo	
EMIN	Mina Concepcion	
EMING	Emmingen-Liptingen DE	
EMIR	Miracle	
EMK	Emporia	
EM-KA	Emporia	
EML	El Monte Cty Pk	
EMLI	Melilla	
EMLP	Malpasso	
EMM	East Machias	
EMMET	Emmethof	
EMMT	East Machias	
EMMW	East Machias	
EMN	Eldorado Mountains	
EMNR	Monte Nero	
EMO	Emosson	
EMON	Mondonedo	
EMOS	Mosqueruela	
EMPA		
EMPL	Monte Parmentelli	
EMPR	Esperanza - Manati, PR	
EMRE	Erzurum,Aziziye	
EMRS	Mersa Alam	
EMRV	Monte Ruvolo	
EMS	Emosson-Mur	
EMSA	Motta S. Anastasia	
EMSB	Eumseong	
EMSC	East Mesa	
EMSG	Monte Spagnolo	
EMT	Emmet	
EMUR	La Murta	
EMUT	Emma Park	
EMV	Vieux Emosson	
EMVT	Monte Vetore	
EMX	El Mayor	
EN-	Ellsinore	EN-MO
EN6*	Monte Nero	
ENA	Nanau	
ENAH	Nanao	
ENCS	Nicolosi	
ENDA	Endulen Rd	
ENDD	Endenburg	
ENEL	Enilchek, Kyrgyzstan	
ENEZ	Enez	
ENG	Engineer Hill	
ENGB	English Bluff	
ENGD	Engstlatt	
ENGI	Ein Gedi	
ENH	Enshi	
ENIC	Nicolosi	
ENIJ	Nijar	
ENLB	Shoufeng	
ENLS	Nicolosi	
ENM	Eenrum	
ENM1	Eenrum	
ENM2	Eenrum	
ENM3	Eenrum	
ENM4	Eenrum	
EN-MO	Ellsinore	
ENN	Epen	
ENPP	El Nido	
ENR	Entracque	
ENSF	Ens	
ENT	Entebbe	
ENTS	Ennepetalsperre	
ENTT	Nioudou	
ENV	Elp	
ENV1	Elp / Enerveen	
ENV2	Elp / Enerveen	
ENV3	Elp / Enerveen	
ENV4	Elp / Enerveen	
ENX	Ensenada	
ENZ	Enzan	
ENZZ	Sultanice-Enez-Edirne	
EO1	Edge Oya	
EO2TX	Elmo	
EOCU	Emergency Operations Center, State Capitol Campus, Salt Lake City, UT, USA	
EOLT	Oltu	
EORO	Oroz-Betelu	
EOS1	EOS1	
EOSO	Osorio	
EP-	El Paso	EP-TX
EPA	Esparza	
EPAB	San Pablo	
EPALM	Reventador volcano	
EPAP	Piano d'Api	
EPAZ	Eden Park BICEP	
EPCH		
EPDN	Pizzo Deneri	
EPET	Petrulli	
EPF	Esparros	
EPH	Ephrata	
EPI	Epi	
EPID	Epidavros	
EPIS	Pennisi	
EPLA	Plasencia	
EPLC	Punta Lucia	
EPLO	Experimental Lakes	
EPM	Echo Peak	
EPMB	Univ. Columbia	
EPMC	Merrill Creek	
EPMN	Piedimonte	
EPNL	EPN Laboratorio de Estructuras	
EPOB	Poblet	
EPOL	Con Chiusa Politi	
EPON	Pontenova	

Code	*Station Name*	*Other*
EPOS	Posof	
EPOZ	Pozzillo	
EPPA	Pizzo Paviglione	
EPR	East Pahranagat Range	
EPRM	East Prairie	
EPRU	Pruna	
EPSO	Coonabarabran	
EPT	El Paso	
EP-TX	El Paso	
EPU	East Promontory	
EPW	Ephrata	
EPYK	Eagle Plains	
EPZF	Pizzo Felice	
EQES	Quesada	
EQUE	Quentar	
EQUI	Equi	
ER1	Erice	ERC
ER101	Early Rise 101	
ER102	Early Rise 102	
ER103	Early Rise 103	
ER104	Early Rise 104	
ER105	Early Rise 105	
ER106	Early Rise 106	
ER107	Early Rise 107	
ER108	Early Rise 108	
ER109	Early Rise 109	
ER110	Early Rise 110	
ER111	Early Rise 111	
ER112	Early Rise 112	
ER113	Early Rise 113	
ER114	Early Rise 114	
ER115	Early Rise 115	
ER116	Early Rise 116	
ER117	Early Rise 117	
ER118	Early Rise 118	
ER119	Early Rise 119	
ER120	Early Rise 120	
ER201	Early Rise 201	
ER202	Early Rise 202	
ER203	Early Rise 203	
ER204	Early Rise 204	
ER205	Early Rise 205	
ER207	Early Rise 207	
ER208	Early Rise 208	
ER209	Early Rise 209	
ER210	Early Rise 210	
ER211	Early Rise 211	
ER212	Early Rise 212	
ER213	Early Rise 213	
ER215	Early Rise 215	
ER216	Early Rise 216	
ER217	Early Rise 217	
ER218	Early Rise 218	
ER219	Early Rise 219	
ER220	Early Rise 220	
ER221	Early Rise 221	
ER222	Early Rise 222	
ER223	Early Rise 223	
ER224	Early Rise 224	
ER225	Early Rise 225	
ER226	Early Rise 226	
ER227	Early Rise 227	
ER228	Early Rise 228	
ER229	Early Rise 229	
ER230	Early Rise 230	
ER231	Early Rise 231	
ER232	Early Rise 232	
ER234	Early Rise 234	
ER235	Early Rise 235	
ER236	Early Rise 236	
ER237	Early Rise 237	
ER238	Early Rise 238	
ER239	Early Rise 239	
ER241	Early Rise 241	
ER242	Early Rise 242	
ER300	Early Rise 300	
ER301	Early Rise 301	
ER302	Early Rise 302	
ER303	Early Rise 303	
ER304	Early Rise 304	
ER306	Early Rise 306	
ER307	Early Rise 307	
ER308	Early Rise 308	
ER309	Early Rise 309	
ER310	Early Rise 310	
ER311	Early Rise 311	
ER312	Early Rise 312	
ER313	Early Rise 313	
ER314	Early Rise 314	
ER315	Early Rise 315	
ER316	Early Rise 316	
ER317	Early Rise 317	
ER318	Early Rise 318	
ER319	Early Rise 319	
ERB	Rabaul (IGS)	
ERBA	Erbaa	
ERBM	Eremo	
ERBR	Yeremizino-Borisovskaya	
ERC	Erice	
ERCT	Erciyes	
ERCV	ERCIS-VAN	
ERD	Erdek	
ERE	Yerevan	
EREA	Eretria	
EREN	Erenkoy	
ERET	Eretria	
ERI	Eureka Ridge	
ERIK	Erikli-Kesan	
ERIN	Erian - IBB Gov. - Yemen	
ERIP	Rio Piedras	
ERK	Elk Rock	
ERM	Erimo	
ERMK	Ermenek	
ERMT	East Ridge	
ERN	Ernestine	
ERNS	Erzin	
ERON	Agron	
EROQ	Roquetas del Mar	
ERP	Erie	
ERPA	Erie	
ERPC	Ernies Place	
ERPF	Erpfingen	
ERPM	east rand property ines	
ERR	Err	
ERRC	Elmore Ranch	
ERS	Ellisras	
ERSA	Rifugio Sapienza	
ERT	Erto-Casso	
ERTA	Horta de San Juan	
ERTU	Ertsjaerv	
ERUA	La Rua	
ERW	Mount Erie	
ERZ	Erzurum	
ERZC	Erzyncan	
ERZM	Erzurum	
ERZN	Erzincan	
ERZT	Erzurum	
ES-	Espanola	ES-ON
ES01	SONSECA Array Site 01	
ES02	SONSECA Array Site 02	
ES03	SONSECA Array Site 03	
ES04	SONSECA Array Site 04	
ES05	SONSECA Array Site 05	
ES06	SONSECA Array Site 06	
ES07	SONSECA Array Site 07	
ES08	SONSECA Array Site 08	
ES09	SONSECA Array Site 09	
ES10	SONSECA Array Site 10	
ES11	SONSECA Array Site 11	
ES12	SONSECA Array Site 12	
ES13	SONSECA Array Site 13	
ES14	SONSECA Array Site 14	
ES15	SONSECA Array Site 15	
ES16	SONSECA Array Site 16	
ES17	SONSECA Array Site 17	
ES18	SONSECA Array Site 18	
ES19	SONSECA Array Site 19	
ES2	Esso	
ESA	Esa-ala	
ESAC	San Caprasio	
ESAD	Djebel Saadia	
ESAL	Sant'Alfio	
ESAN	Monte dei Santi	
ESAR	Angra dos Reis-Rio de Janeiro-Brazil	
ESB	Esa-ala	
ESBB	Sonseca Array BB	
ESC	El Salvador	
ESCA	l'Escarene	
ESCF	Escot	
ESCO	ESCO Site	
ESCV	Scorciavacca	
ESD	East Dome	
ESDC	Sonseca Array Beam Reference Point	
ESE	Esentepe	
ESEL	Selva	
ESF	Shoufeng Township	
ESGS	El Segundo	
ESH	Esan	
ESK	Eskdalemuir	
ESKT	Eskisehir	
ESKU	Eskilstuna	
ESL	Shilin	
ESLA	Sonseca Array Site A	
ESLB	Sonseca Array Site B	
ESLC	Sonseca Array Site C	
ESLD	Sonseca Array Site D	
ESLE	Sonseca Array Site E	
ESLF	Sonseca Array Site F	
ESLG	Sonseca Array Site G	
ESLN	Serra La Nave	
ESM	Semalu	
ESML	S. M. di Licodia	
ESMR	San Marino	
ESO	Esso	
ES-ON	Espanola	
ESP	Espenschied	
ESPC	Serra Pizzuta	
ESPN	Las Esperanzas	
ESPO	Espot	
ESPR	Espera	
ESPY	Espiye-Giresun	
ESPZ	Base Esperanza	
ESR	Escape Road	
ESRO	Monte Soro	
ESS	CRAAG	
EST	Estancia	
ESTN	Esteli@15	
ESTP	Estepa	
ESTR	Eastside	
ESU	Esutoru	
ESVO	Monte Scavo	
ESY	Stoneypath	
ET03	Palhano	
ET2	Eltopia	
ET3	Eltopia	
ETA	Tara	
ETAN	Djebel Tanoua	
ETAR	Tardaria	
ETAZ	East Tamaki Reservoir	
ETB	Estevan Point	
ETC	El Centro	
ETER	Terradas	
ETFI	Torre del Filo	
ETG	Eatonton	
ETHB	Djebel Tachoubennt	
ETKA	Kagalaska Island	
ETL	Fush Village	
ETLH	Xiulin Township	
ETMB	Extrema	
ETOB	Tobarra	
ETOR	Torete	
ETOS	Mallorca	
ETP	Eltopia	
ETRT	Tiaret	
ETRV	Los Montesinos	
ETS	Engine Test Stand	
ETSF	Etsaut	
ETT	Etowah	
ETU	East Traverse Mountains	
ETV	Tovanakuss	
ETW	Entiat	
ETX01	County Road 4772, Timpson	
ETX02	Prairie Street, Timpson	
ETX03	FM Road 95, Garrison	
ETX04	Route FM415 near Route 87	
ETX06	Route 59 and County Road 4763, Timpson	
ETX07	County Road 4760 near Route FM1970, Timpson	
ETYK		
EU-	Eutaw	EU-AL
EU2	Eutaw	EU2AL
EU2AL	Eutaw	
EU-AL	Eutaw	
EUC	Eureka Canyon	
EUCT	Pavia	
EUGM	Eugowra	
EUM	Eureka Mesa	
EUNU	Eureka	
EUO	Eugene	
EUR	Eureka	
EURB	Uiryeong-eup	
EUW	Eureka	
EUZM	Uzumlu	
EVA	Evander	
EVAL	Valverde	
EVCC	Everett College ANSS-SMO	
EVE	Everglades	
EVEN	Evensk	
EVES	Evensk	
EVGI	Lefkada island	
EVGW	Everett Gateway Middle School ANSS-SMO	
EVIA	Vianos	
EVIN	Evansville	
EVN	Everest	
EVNA	Vena	
EVNR	Evensk	
EVO	Evora	
EVOP	Sao Brissos	
EVR	Evrytania	
EVRN	Santa Venerina	
EVV	El Vigia	
EVZ	Mount Varzin	
EW-	Eniwetok	EW-IS
EW2	E Wide Canyon 2	
EWC	East Wide Canyon	
EW-IS	Eniwetok	
EWT	Watom Island	
EWZ	Erewhon	
EWZT0	Triemli, ZR	
EWZT1	Frdhf. Weidikon, ZR	
EWZT2	Wettswil, ZR	
EWZT3	Uitikon, ZR	
EXAA	Alhama Almeria	
EXAD	Adra	
EXAG	Alhama Granada	
EXAI	Alicante	
EXAL	Albunol	
EXAM	Almeria	
EXAO	Algodonales	
EXAR	Arenas del Rey	
EXBA	Badajoz	
EXBE	Becerrea'	
EXBN	Benidorm	
EXBZ	Baza	
EXC	Excelsior	
EXCA	Cadiz	
EXCH	Chimeneas	
EXDI	Dilar	
EXED	Elda	
EXEE	El Ejido	
EXEL	Elche	
EXES	Estepona	
EXG	Exogi	
EXGA	Gandia	
EXGUA	Guardamar (Alicante)	
EXHU	Huelva	
EXJA	Jaen	
EXJU	Jumilla	
EXLO	Lorca	
EXLR	Lorqui	
EXLU	Lugo	
EXMA	Malaga	
EXMO	Motril	
EXMU	Mula	
EXOR	Olula del Rio	
EXPA	Pamplona	
EXSA	Sarria	
EXSG	Experiment Station	
EXTA	Tarifa	
EXTO	Torrevieja	
EXVE	Vera	
EY-	Ely	EY-NV
EY2	Ely	EY2NV
EY2NV	Ely	
EYAK	Cordova Ski Area	
EYCZ	Eyrewell	
EYES	Ewing Young ES, Newberg ANSS-SMO	
EYL	Eskiyayla	
EYMN	Ely	
EY-NV	Ely	
EYP	El Yunque	
EZ5V		
EZAM	Zamans	
EZC	Erzincan	
EZM	Erzurum	
EZN	Ezine	
EZPO	C.da Z Pietro	
F03A	Seaside	
F04A	Amboy	
F04D	Rainier, OR	
F05A	White Salmon	
F05D	White Salmon	
F06A	Goldendale	
F07A	Phinny Hill Vineyards, Prosser	
F08A	Pendleton	
F09A	S2 Ranch, Elgin	
F10A	Beach Ranch, Enterprise	
F11A	Grangeville	
F12A	Elk City	
F13A	Darby	
F14A	Wisdom	
F15A	Butte	
F16A	Kennard Place, Willow Creek	
F17A	Fitzpatrick Place, Clyde Park	
F18A	Big Timber	
F19A	Roth Farm, Molt	
F20A	Billings	
F21A	Absaloka Mine, Hardin	
F22A	Rosebud	
F23A	Volborg	
F24A	Ekalaka	
F25A	Bowman	
F26A	Lodgepole	
F27A	Lemmon	
F28A	McLaughlin	
F29A	Eureka	
F30A	Leola	
F31A	Hecla	
F32A	Veblen	
F33A	5 Mile Ranch, Herman	
F34A	Alexandria	
F35A	Swanville	
F36A	Milaca	
F37A	Hinrichs Farm, Grantsburg	
F38A	Pierce - Schroeder Farm, Trego	
F39A	Loretta	
F40A	Park Falls	
F41A	Three Lakes	
F42A	Maple Grove Farm, Niagara	
F43A	Flat Rock, Escanaba	
F44A	Big Bay de Noc Black Bears, Cooks	
F45A	CMU Biological Station, Beaver Island	
F46A	Macinaw City Comets, Mackinaw City	
F48A	Evansville	
F49A	Sandfield	
F51A	Arnstein	
F52A	Sundridge	
F55A	Otter Lake	
F57A	Harrington	
F58A	St-Lin Laurentide	
F59A	Saint Guilaume	
F60A	Warwick	
F61A	St Evariste	
F62A	Pittston Farm, Pittston Academy Grant	
F63A	Nahmakanta, Browneville	
F64A	Sherman	
FA05	FA05	
FA06	FA06	
FA07	FA07	
FA08	FA08	
FA09	FA09	
FA1	Favara	FAI
FA10	FA10	
FA11	FA11	
FAB	Fabrichnaya	
FABU	Falkenberg	
FAC	Faja de Cima	
FACH	Fachingen	
FAE	Faenza	
FAEN	Faenza	
FAGN	Fagnano	
FAI	Favara	
FAIR	Fairbairn	
FAKI	Fak Fak	
FAL	Falling Springs	
FALK	Falkenberg	
FALL	Mountain Creek	
FALS	False Pass	
FALU	Falun	
FAM	Famagusta	
FAN	Fanning Island	
FANE	Correggio Fan	
FA-NV	Faultless	
FAQ	Al Faqa, Dubai	
FAR	Faro	
FARB	Farallon Islands	
FARG	Farmington	
FARH	Faro	
FARM	Veracruz	
FASA	Fasano	
FAT	Fatmalar	
FAU	Forcella Aurine	
FAV	Fayetteville	
FAVR	Favara	
FAY	Fayetteville	
FB03	FB03	
FB05	FB05	
FB06	FB06	
FB07	FB07	
FB08	FB08	
FB09	FB09	
FB10	FB10	
FB11	FB11	
FB2AK	Fairbanks	
FBA	Fairbanks	
FB-AK	Fairbanks	
FBAL	Fairbanks--Long Period	
FBAS	Fairbanks	
FBB	Freiburg im Breisgau	
FBC	Frobisher Bay	
FBE	Freiberg	
FBG	Trois Rivieres	
FBK	Fairbanks	
FBMT	Ferry Basin	
FBN	Frobisher Bay	FRB
FBO	Farmers Butte	
FBR	Fabra	
FBT	Foumbot	
FC03	FC03	
FC04	FC04	
FC05	FC05	
FC06	FC06	
FC07	FC07	
FC08	FC08	
FC09	FC09	
FC10	FC10	
FC11	FC11	
FCAB	Cabia	
FCAR	Ozark Folk Center	
FCBC	Franklin Camp	
FCC	Fort Churchill	
FCH	Farellones	
FCN	Frijoles Canyon	
FCOR	Fonte Corniale	
FCV	Fort Charlotte	
FD03	FD03	
FD04	FD04	
FD05	FD05	
FD06	FD06	
FD07	FD07	
FD08	FD08	
FD09	FD09	
FD11	FD11	
FD12	FD12	
FD14	FD14	
FD15	FD15	
FDA	Foz do Areia	
FDA4	Foz do Areia	
FDA5	Foz do Areia	
FDAF	Les Forges d'Abel	
FDAS		
FDCV	FORTIN DE LA CUMBRE	
FDF	Fort de France	

Code	Station Name	Other
FDG1	Firdgum	
FDG2	Firdgum	
FDG3	Firdgum	
FDG4	Firdgum	
FDKY	Freedom	
FDMO	Fiordimonte	
FDU	Ford Ridge	
FE03	FE03	
FE04	FE04	
FE05	FE05	
FE06	FE06	
FE07	FE07	
FE08	FE08	
FE09	FE09	
FE10	FE10	
FE11	FE11	
FE12	FE12	
FE13	FE13	
FE14	FE14	
FE15	FE15	
FEA	Feather Falls	
FECT	Ferrara Citta	
FEF	Fern Forest	
FEKT	Feke	
FEL	Feldberg	
FELD	Feldberg im Schwarzwald	
FEMA	Monte Fema	
FEN	Shenyang	
FENE	Fenestrelle	
FENY	Casa Vinicio Caceres	
FEO	Feodosiya	
FER	Ferndale	
FER1	Fernandina1, Punta Espinoza	
FER2	Fernandina2, Punta Mangle	
FERB	Ferrara borehole (Italy)	
FERN	Isla Fernandina	
FERR	Ferguson	
FERS	Ferrara-Casaglia	
FESP	Espira	
FETA	Feichten	
FETI	Fethiye-Mugla	
FETY	Fethiye	
FF02	FF02	
FF04	FF04	
FF05	FF05	
FF06	FF06	
FF07	FF07	
FF11	FF11	
FF12	FF12	
FF13	FF13	
FF14	FF14	
FF15	FF15	
FF30	FF30	
FF31	FF31	
FF32	FF32	
FF33	FF33	
FF90	FF90	
FF91	FF91	
FF92	FF92	
FF93	FF93	
FF94	FF94	
FFBG	Frank Field Bay, Greenland	
FFC	Flin Flon	
FFD	Franklin Falls Dam	
FFNB	Fofonovo	
FFNT	Fontanafredda	
FG01	FG01	
FG02	FG02	
FG03	FG03	
FG04	FG04	
FG05	FG05	
FG06	FG06	
FG07	FG07	
FG08	FG08	
FG09	FG09	
FG1	Foggia	FOG
FG10	FG10	
FG11	FG11	
FG12	FG12	
FG13	FG13	
FG14	FG14	
FG2	Serracapriola	
FG3	Mte Sant'Angelo	
FG4	Candela	
FG5	Orsara di Puglia	
FG6		
FGG	Foggia	FOG
FGMS	Monte Sant'Angelo	
FGO	Fuego	
FGO2	Fuego 2	
FGRZ	Gorizia	
FGSL	Fruska Gora	
FGTN	Flat Gap	
FGTQ	Fig Tree	
FGU	Flaming Gorge	
FH-	Fort Sherman	FH-PM
FH02	FH02	
FH03	FH03	
FH04	FH04	
FH05	FH05	
FH06	FH06	
FH07	FH07	
FH09	FH09	
FH10	FH10	
FH11	FH11	
FH12	FH12	
FH13	FH13	
FH14	FH14	
FHC	Fickle Hill	
FHE	Frenchman Hills East	
FHMC	Merrill Creek	
FHO	Fitzroy Harbor	
FH-PM	Fort Sherman	
FHRB	Fair Harbour	
FHV	Haldarsvik	
FIA0	FINESS Array Site A0	FINES
FIA1	FINESS Array Site A1	
FIA2	FINESS Array Site A2	
FIA3	FINESS Array Site A3	
FIAM	Fiamignano	
FIB	Fire Island	
FIB1	FINESS Array Site B1	
FIB2	FINESS Array Site B2	
FIB3	FINESS Array Site B3	
FIB4	FINESS Array Site B4	
FIB5	FINESS Array Site B5	
FIB6	FINESS Array Site B6	
FIBO	Fila Bonilla	
FIBU	Brunna	
FIC1	FINESS Array Site C1	
FIC2	FINESS Array Site C2	
FIC3	FINESS Array Site C3	
FIC4	FINESS Array Site C4	
FIC5	FINESS Array Site C5	
FIC6	FINESS Array Site C6	
FICA	Fila Carbon	
FICH	Ethiopian Broadband Seismic Experiment	
FID	Port Fidalgo	
FIER	Fieri	
FIESA	Fiescheralp	
FIG	Monte Figo	
FIGC	Figueroa Mtn.	
FIL	Fillmore	
FILF	Fillols	
FIN	Finale Ligure	
FINB	Finale Ligure	
FINC	Finschhafen	
FINE	Fine	
FINES	FINESS Array Beam Reference Point	
FINN	Finn Hill Junior High School	
FINU	Finntorp	
FINV	Invillino	
FIPE	Fila de Piedra	
FIR	Firenze	
FIRM	Firavahana	
FIS	Fire Island	
FISA	Sacuragua	
FITX	Fitzroy Crossing	
FITZ	Fitzroy Crossing	
FIU	Minerbio Fiu	
FIU1	Fiuminata	
FIVI	Fivizzano	
FJ01	FJ01	
FJ02	FJ02	
FJ03	FJ03	
FJ05	FJ05	
FJ06	FJ06	
FJ07	FJ07	
FJ08	FJ08	
FJ09	FJ09	
FJ11	FJ11	
FJ12	FJ12	
FK-	Franktown	FK-CO
FK04	FK04	
FK05	FK05	
FK06	FK06	
FK07	FK07	
FK08	FK08	
FK09	FK09	
FK10	FK10	
FK11	FK11	
FKAF	FKAF	
FKBC	Forrest Kerr	
FK-CO	Franktown	
FKH	Fakeheh	
FKI	Failaka Island	
FKJ	Fukue	
FKJD	Fukui	
FKK	Fukuoka	
FKO	Franklin	
FKPU	Falk	
FKS	Fukushima	
FL-	Fort Nelson	FL-BC
FL01	Flin Flon Array Site 1	
FL02	Flin Flon Array Site 2	
FL03	Flin Flon Array Site 3	
FL04	Flin Flon Array Site 4	
FL05	Flin Flon Array Site 5	
FL06	Flin Flon Array Site 6	
FL07	Flin Flon Array Site 7	
FL08	Flin Flon Array Site 8	
FL09	Flin Flon Array Site 9	
FL10	Flin Flon Array Site 10	
FL11	Flin Flon Array Site 11	
FL12	Flin Flon Array Site 12	
FL13	Flin Flon Array Site 13	
FL14	Flin Flon Array Site 14	
FL15	Flin Flon Array Site 15	
FL16	Flin Flon Array Site 16	
FL17	Flin Flon Array Site 17	
FL18	Flin Flon Array Site 18	
FL2	Flat Top 2	
FL31	Flin Flon Array Site 31	
FLA	Flat	
FLACH	Flaach	
FLAF	Flassans-sur-Issole	
FLAG	Flagstaff	
FLAM	Flamenco Island	
FLAR	Flin Flon Array Beam Reference Point	
FLAS	Fullerton Airport	
FL-BC	Fort Nelson	
FLE	Fletcher	FLET
FLET	Fletcher	
FLFR	Flavio Alfaro	
FLG	Flagstaff	
FLK	Falkland Islands	
FLKY	Flemingsburg	
FLLB	Fletcher Lake Big Creek, BC	
FLN	La Foliniere	
FLO	Florissant	
FLO2	Florina	
FLOC	Florencia	
FLOM	Florida	
FLOR	Flores Is	
FLOS	Flostrand	
FLP	Featherly Pass	
FLPT	Flippin	
FLR	Fall River	
FLS	Las Flores	
FLSC	Flash Two Peak	
FLT	Fleetwood	
FLTG	Flechtingen	
FLU	Fool Peak	
FLV	Fish Lake Valley	
FLW	Foulwind	
FLWY	Flagg Ranch	
FLYU	Flymyra	
FM-	Fillmore	FM-UT
FMA	Fort MacArthur	
FMC	Four Mile Canyon	
FMF	Francis Marion National Forest	
FMKY	Fulgham	
FMON	Montouss^	
FMP	Fort Macarthur Park, San Pedro	
FMPA	Franklin College	
FMT	Funeral Mountains	
FMTX	Flower Mountain	
FM-UT	Fillmore	
FMW	Mount Fremont	
FN-	Franklin	FN-WV
FNA	Florina	
FNBB	Fort Nelson	
FNBC	Fort Nelson	
FNC	Finlay Fork	
FNDO	Fernando de Noronha	
FNEB	N^bias	
FNF	Frandzen Federal Estate	
FNG	Fond-Bernard	
FNN	Franconia Notch	
FNO	Franklin	
FNT	Hobart	
FNVD	Fontana Vidola	
FN-WV	Franklin	
FO-	Fort Stockton	FO-TX
FOA	Forni Avoltri	
FOC	Focsani	
FOCM	Fo^Şa	
FODE	Fodele	
FOE	Fourare	
FOEL	Foel Wylfa	
FOG	Foggia	
FOL	Foligno	
FOMA	Nahampoana Res	
FON	Fontana	
FONT	Fontmartina	
FONW	Fourpeaked Station 2	
FOO	Floro	
FOPK	Fourpeaked Volcano	
FOR	Fordham	
FOR1	Fortaleza - CE	
FORC	Fortuna	
FORR	Forrest	
FORT	Forrest	
FORU	Forsmark	
FOSD	Fosdinovo	
FOSS	Fourpeaked Station 1	
FOSV	Fossato di Vico	
FOT	Fontinhas	
FOTD	Funaoka	
FO-TX	Fort Stockton	
FOUF	Fouillouse	
FOX	Fox Creek	
FOXC	Fox Airport	
FOZ	Fox Glacier	
FP03	FP03	
FP05	FP05	
FPAL	Fort Paine	
FPK		
FPN	Fairview Peak	
FPN1	Fairview Park	
FPOZ	Pozzuolo	
FPPC	Fogo--Pe de Pico	
FPRM	Premariacco	
FPST	Four Points	
FPU	Francis Peak	
FPW	Fields Point	
FR-	Forsyth	FR-MA
FR05	FR05	
FR27	Wilpena Pound	
FRA	Furnas	
FRA1	Furnas	
FRAS	Faraa	
FRB	Frobisher Bay	
FRC	Federal Ranch	
FRCO	San Francisco	
FRD	Ford Ranch, Anza	
FRE	Fresno	
FRE8	Fregona	
FRED	Fred Haigh	
FRES	Fresagrandinaria	
FRF	La Foret Royale	
FRG	Fergana	
FRGC	Fargo Canyon	
FRGS	Fruska Gora	
FRI	Friant	
FRIJ	El Hiral	
FRIM	Kepong	
FRIS	Frissel Point	
FRJS	Jabal Farasan	
FRK	Frink	
FRM	Flat River	
FRMA	Ierapetra Chania	
FR-MA	Forsyth	
FRN	Fernie	
FRNC1	Faz. Rancharia - MS	
FRNF	Fournols	
FRNY	Flat Rock	
FRO	Froya	
FROB	Froelich Ranch	
FRON	Frontone	
FROS	Frosini	
FRP	Fremont Peak	
FRR	Firariana	
FRS	Fauresmith	
FRS1	Farsala	
FRSO	Firsovo	
FRSS	Farasan al Kabir	
FRT	Faratahi	
FRTB	Fartura	
FRTM	Forrest	
FRTX	Fuller Ranch	
FRU	Bishkek	
FRU1	Bishkek	
FRV	Farmville	
FRZ	Fierza	
FS-	Flagstaff	FS-AZ
FS03	Four Seasons	
FS1	Fosdinovo	FSI
FSA	Cafayete	
FS-AZ	Flagstaff	
FSB	Fort Saint James	
FSC	Fuscaldo	
FSCY	Frank Sound, Grand Cayman	
FSD	Sut uroy	
FSGC	Sgonico	
FSH	Hochheid	
FSHM	Fish Creek	
FSI	Fosdinovo	
FSJ	Fort Saint James	
FSK	Fiskardo	
FSMA	Fort Smith	
FSP	False Pass	
FSR	Penalolen	
FSSB	Fossombrone	
FST	Fort Simpson	
FST1	Fort Simpson	
FSU	Fish Springs	
FSV	Svinoy	
FSW	Finsterwolde	
FSW1	Finsterwolde 1	
FSW2	Finsterwolde 2	
FSW3	Finsterwolde 3	
FSW4	Finsterwolde 4	
FSW5	Finsterwolde 5	
FT-	Fort McLeod	FT-BC
FTA	Fortuna	
FTB	Fintinele	
FT-BC	Fort McLeod	
FTC	Fort Tejon	
FTM	Fortuna Mine	
FTMN	Fort Manro	
FTO	Torshavn	
FTR	Fort Ross	
FTV	Front Royal	
FTW	Fairmont	
FTZM	Fitzroy Falls	
FUB	Fube	
FUG	Fuego 3	
FUJ	Fuji-kawa	
FUK	Fukui	
FUL	Funchal	
FULB	Fuli	
FULC	Fullerton	
FULR		
FUM	Fumarole	
FUN	Funatsu	
FUN1	UHE Funil - MG	
FUNA	Funafuti	
FUNV	FUNVISIS	
FUORN	Ofenpass-Fuorn	
FUQ	Fuquene	
FUR	Furstenfeldbruck	
FURC	Furnace Creek,Death Valley	
FURD	Furusato	
FURI	Furi	
FUSE	Fusea	
FUSIO	Fusio	
FUT	Futatsui	
FUTA	Futaleufu@15	
FUTB	Futbol	
FVA	Vagar	
FVAF	FVAF	
FVI	Forni Avoltri	
FVM	French Village	
FWS	Furtwangen	
FWV	Forest Hill	
FWVZ	Far West T-bar	
FX1	Attu Island--Fox	
FXWY	Fox Creek	
FY1	Fort Yukon	
FY2	Fort Yukon	
FY3	Fort Yukon	
FY4	Fort Yukon	
FY5	Fort Yukon	
FYD	Fayid	
FYM	Al Fayyum	
FYTO	Fytoko, Volos	
FYU	Fort Yukon	
G03A	Yamhill	
G03D	McMinnville, OR	
G04A	Mulino	
G05A	Wamic	
G05D	Wamic, OR	
G06A	Carlson Farm, Grass Valley	
G07A	Ruggs Ranch, Heppner	
G08A	Pilot Rock	
G09A	Cove	
G10A	Bishop Farm, Joseph	
G11A	Walters Elk Ranch, Riggins	
G12A	Big Creek, Yellow Pine	
G13A	Cobalt	
G14A	Jackson	
G15A	Dillon	
G16A	Moss Hill, Ennis	
G17A	Pierce Place, Pray	
G18A	Lazy EL Ranch, Roscoe	
G20A	Bridger	
G21A	Lodge Grass	
G22A	Birney	
G23A	Biddle	
G24A	Alzada	
G25A	Newell	
G26A	Maurine	
G27A	Dupree	
G28A	Parade	
G29A	Hoven	
G30A	Faulkton	
G31A	Conde	
G32A	Webster	
G33A	Ortonville	
G34A	Benson	
G35A	Watkins	
G36A	St. Michael	
G38A	Ridgeland	
G39A	Holcombe	
G40A	Rib Lake	
G41A	Antigo	
G42A	Mountain	
G43A	Wallace	
G45A	Suttons Bay	
G46A	Petoskey	
G47A	Hillman	
G53A	Haliburton	
G54A	Lake Saint Peter	
G55A	Calabogie	
G57A	Newington	
G58A	Ormstown	
G59A	Clarenceville	
G60A	Masonville	
G61A	St-Isidore-de-Clifton	
G62A	West of Eustis	
G63A	Kingsbury	
G64A	Maxfield	
G65A	Princeton	
GA2TX	Grand Saline	
GA3TX	Grand Saline	
GAB	Gabbs	
GABY	Abymes - Guadeloupe	

Code	*Station Name*	*Other*
GAC	Glen Almond	
GACM	Adobe Creek	
GACO	Gateway	
GADA	Gvkgeada	
GAEA	Gareloi East	
GAF	Gafsa	
GAFM	Point Arena AFB	
GAG1	Gagliole	
GAGG	Gaggia	
GAI	Gainesville	
GAIG	Gaighat	
GAKI	Gareloi-Kavalga I.	
GAL	Galerazamba	
GAL1	Galloway	
GALA	Gala	
GALAA	Gareloi Lava Pt.	
GALC	Galileo	
GALE	Galera	
GALF	Gagliano Castelferrato	
GALN	Gameti Lake	
GALR		
GALT	Gorno-Altaysk, Altai Republic, Russia	
GAM	Garm	GAR
GAMB	Gambell	
GAMI	Galela, Maluku	
GAN	Gretna	
GANDO	Gandoh	
GANE	Gareloi Northeast	
GANF	Ganagobie	
GANJ	Ganja	
GANO	Gareloi North	
GAP	Garmisch-Partenkirchen	
GAPA	Garmisch-Partenkirchen	
GAR	Garm	
GARC	Garzon, Huila	
GARD	Gard house	
GARG	Garrygala	
GARI	Garurganga	
GARM	Arbuckle	
GARN	Garrison	
GAS	Alder Springs	
GASB	Alder Springs	
GASG	Gaspe, Quebec	
GASW	Gareloi Southwest	
GATE	Gambatesa	
GATR	Gnd/Air Tx Cntr	
GA-TX	Grand Saline	
GAU	Ngau Island	
GAUS	Gevers	
GAV	Glen Avon	
GAVD	Gavdhos	
GAVE	Gavelli	
GAXM	Alexander Valley	
GAY	Galvasay	
GAZ	Gaziantep	
GAZI	Gazipasa	
GAZZ	Gazzo Veronese (Italy)	
GB01	Guatemala OBS 1	
GB02	Guatemala Basin O.B.S. 2	
GB03	Guatemala Basin O.B.S. 3	
GB04	Guatemala Basin O.B.S. 4	
GB05	Guatemala Basin O.B.S. 5	
GB06	Guatemala Basin O.B.S. 6	
GB07	Guatemala Basin O.B.S. 7	
GB08	Guatemala Basin O.B.S. 8	
GB1A	Borinquen Arriba	
GBA	Gauribidanur Array	
GBAM	Glenbawn Dam	
GBAN	Gaibana	
GBAS	Gorenja Brezovica	
GBB	Gable Butte	
GBBM	Glenbawn Bedrock	
GBC	Guantanamo Bay	
GBD	Granbergs Dal	
GBDM	Big Darby	
GBF	Grand Ballon	
GBG	Greensboro	
GBGM	Boggs Mountain	
GBI	Big Grassy Butte	
GBL	Gable Mountain	
GBLN	Grizzly Bear Lake	
GBM	Granite Butte	
GBMF	Grand Be	
GBMM	Baldy Mountain	
GBN	Guysborough	
GBNC	Greensboro	
GB-NM	Gasbuggy	
GBO	Fort Gibson	
GBOM	Black Oak	
GBOS	Grotte di Bossea	
GBPR	Guanica, Bosque Seco, PR	
GBR	Grand-Bara	
GBRS	Gornja Briga	
GBS	Qobustan	
GBS2	Las Lilas	
GBS3	Finca Las Imˆ¡genes	
GBT	Gilbert	
GBTN	Greenback	
GBV	Green Bank	
GBY	Granite Bay	
GBZ	Great Barrier	
GBZT	Gebze	
GC-	Glacier Peak	GC-WA
GC1	Gold Cst Hrdrock	
GC1S	Gold Coast 1 Soft	
GC2	Gold Coast Softrock	
GC2F	Gold Coast 2 Fill	
GCA	Glen Canyon	
GCAM	G?zelcaml?	
GCAZ	Grand Canyon	
GCBM	Chamberlain Ridge	
GCC	Granite Creek	
GCD	Castle Douglas	
GCG	Guatemala City	
GCIS	Gornji Cirnik	
GCK	Clark Valley	
GCL	Cushendall	
GCM	Grand Cayman	
GCMM	Cobb Mountain	
GCMP	Grenada, Carriacou, Mt. Pleasant	
GCMT	Greycliff	
GCPN	Pointe noire	
GCPR	Guaynabo City	
GCR	Grayling Creek	
GCRM	Castle Rock Springs	
GCSA	Galena City School	
GCSM	Cold Spring Mountain	
GCUF	Volcan Galeras	
GCVM	Cloverdale	
GCW	Grand Coulee	
GC-WA	Glacier Peak	
GCWM	Cow Mountain	
GCY	Glen Cove	
GD-	Grundy	GD-VA
GD1S	Gladstone Soft Rock	
GDB	GEDABAY	
GDCM	Dry Creek	
GDD	Ghadhada	
GDDT	Gundogdu	
GDH	Godhavn	
GDHS	Morne Mazeau, Deshaies	
GDL2	Guadalupe Mountain	
GDLC		
GDLE	Glaisdale, N Yorkshire Moors	
GDLN	Gardenia Lake, NWT	
GDM	Grand'Maison	
GDR	Gold River	
GDSD	La D"sirade Island	
GD-VA	Grundy	
GDXM	Geysers	
GDZ	Gediz	
GE-	Globe	GE-AZ
GEA0	GERESS Array Site A0	
GEA1	GERESS Array Site A1	
GEA2	GERESS Array Site A2	
GEA3	GERESS Array Site A3	
GEAM	CSIRO Animal Health Laboratory	
GE-AZ	Globe	
GEB	Gebze	
GEB1	GERESS Array Site B1	
GEB2	GERESS Array Site B2	
GEB3	GERESS Array Site B3	
GEB4	GERESS Array Site B4	
GEB5	GERESS Array Site B5	
GEC1	GERESS Array Site C1	
GEC2	GERESS Array Site C2	GERES
GEC2A	GERESS ARRAY SITE C2A	
GEC2B	GERESS ARRAY SITE C2B	
GEC3	GERESS Array Site C3	
GEC4	GERESS Array Site C4	
GEC5	GERESS Array Site C5	
GEC6	GERESS Array Site C6	
GEC7	GERESS Array Site C7	
GECU	Ecuador Network	
GED	Gedeh	
GED1	GERESS Array Site D1	
GED2	GERESS Array Site D2	
GED3	GERESS Array Site D3	
GED4	GERESS Array Site D4	
GED5	GERESS Array Site D5	
GED6	GERESS Array Site D6	
GED7	GERESS Array Site D7	
GED8	GERESS Array Site D8	
GED9	GERESS Array Site D9	
GEDT	Gedikpinar	
GEDZ	Gediz	
GEE	Geehi	
GEES	Gees Lookout	
GEG	Gegechkori	
GEIT	Geita	
GELF	Grande-Etoile	
GELI	Tayfur-Gelibolu	
GEM	Giv'at Ha'Em	
GEMT	Gemlik	
GEN	Genova	
GENH	Genta-Ana	
GENI	Genyem	
GENL	Genova University	
GENO	Geno	
GENY	Geneseo	
GEO	Georgetown	
GEPF	Gemona	
GERES	GERESS Array Beam Reference Point	
GERM	Germantown	
GET	Gonen	
GEVA	Gevas	
GEWE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
GEXS	Deakin University, Geelong	
GEYT	Alibeck	
GEYV	SAKARYA_Geyve	
GEZ	Gezan	
GF-	Goldfield	GF-NV
GFA	Gafsa	
GFC	Funks Creek	
GFM	Grandfather Mountain	
GFN	Grafton	
GFNU	Grise Fiord	
GF-NV	Goldfield	
GFP	Griffith Park	
GFTM	Plant 15--Mercuryville	
GFW	Glenfield	
GG-	Grafenberg Ar.	GG-GR
GGC	Guia Canaria	
GGF	Granges-Gontardes	
GG-GR	Grafenberg	
GGLM	Glenview	
GGN	Saint George	
GGP	Refugio Guagua Pichincha	
GGPC	Guagua Pichincha Codigem	
GGPM	Geyser Peak	
GGUM	Gualala	
GGV	Gabriel Gonzalez Videla	
GHA	Glashutten	
GHAJ	Ghor Haditha	
GHAN	Ghanteswor	
GHAR	Gharyan	
GHAT	Ghardimaou	
GHC	Gold Hill	
GHCM	House Creek	
GHGM	Hogback Ridge	
GHI	Gilbert Hill	
GHIB	Gold Hill	
GHIR	Ghir-Karzin	
GHLM	Highland Springs	
GHMM	Hull Mountain	
GH-MS	Greenville	
GHNB	Nanoose	
GHO	Glory Hole Creek	
GHOM	Hamilton Opening	
GHRR		
GHS	Gilroy Hot Springs	
GHSS	Government House	
GHV	Goochland	
GHVM	High Valley	
GHVR	GHOM	
GHW	Garrison Hill	
GHZJ	Ghuzeima	
GI-	Glendive	GI-MA
GIA	Geophysical Institute, University of Alaska	
GIB	Gibilmanna	
GIBL	Gibalbin	
GID	Gilleleje	
GIDA	Gidamilanda	
GIE	Galapagos Islands	
GIF	Gifu	
GIFN	Gifford Fjord, Baffin Island, Nunavut	
GIGS	Gran Sasso	
GIL	Gilmore Creek	
GILB	Gilboa	
GILD	Guildford	
GILR	Gillis	
GILT	SW Tenn Gill Cnt	
GIM	North Isle of Man	
GI-MA	Glendive	
GIMEL	St. Georges / Gimel	
GIN	Stromboli-G	
GIO	San Gregorio	
GIP	Gileppe	
GIRC	Giron, Santander	
GIRL	Giralia	
GIRR	Girov	
GIS	Gissar	
GISR	Galati	
GIUL	Giuliano Di Roma	
GIUM	Giurgiulesti	
GIVF	Givet	
GIZ	Gizo	
GJC	Grand Junction	
GJIK	Gjilan	
GJRN	Ganjari	
GKA	Goroka	
GKC	Gold King Creek	
GKD	Gaurikund	
GKN	Gorkha	
GKP	Gorka Klasztorna	
GL-	Garland	GL-TX
GL2	New Goldendale	
GLA	Glamis	
GLAD	Gladstone	
GLADS	Gladstone Plant	
GLAT	Glass	
GLB	Gilahina Butte	
GLBA	Ca@14lilabad	
GLC	Glacier Island	
GLD	Golden	
GLE	Glenmuick	
GLEN	Glenside	
GLFJ		
GLGT	Gilgit	
GLH	Golan-Tel Qazir	
GLHS	Glhisar (BURDUR)	
GLI	Glacier Island	
GLK	Glacier Lake	
GLKZ	Green Lake	
GLL	Jalalah	
GLM	Gilmore Dome	GLN
GLMI	Grayling	
GLMM	Glenmaggie	
GLMO	Le Moule	
GLN	Gilmore Dome	
GLNM	Glennies Creek Dam	
GLO	Gloucester	
GLOV	Gloversville	
GLP	Golpazari	GPA
GLR	Groom Lake Road	
GLS	Giles	
GLST	Glass	
GLT	Gallatin	
GL-TX	Garland	
GLVR	Golovnino	
GLWN	Glow Worm Lake	
GM-	Guantanamo	GM-CU
GMA	Granite Mountain	
GMB	Gambarie	
GMC	Macagua	
GMCM	McLaughlin Ranch	
GM-CU	Guantanamo	
GMG	Grassy Mountain	
GMI	Garnes Mountain	
GMJI	Gumukmas	
GMK	Mull of Kintyre	
GMKM	Mount Konoctai	
GMLD	Gumuldur	
GMM	Mts of Mourne	
GMMM	Mayacamas Mountains	
GMN	Gold Mountain	
GMNA	Gemona	
GMO	Grizzlie Mountain	
GMOM	Moffitt Ranch	
GMR	Groom Range	
GMRC	Granite Mountains Research Center, Essex	
GMRK	Grmije	
GMRZ	Gyumri	
GMTN	Garret Mountain	
GMU	Granite Mountain	
GMV	El Manteco	
GMW	Gold Mountain	
GN-	Gnome	GN-NM
GNAM	Navarro Ridge	
GNAR	Gosnell	
GNBR	Gunib	
GNF	Goodnow Flow	
GNG	Grange	
GNI	Garni	
GNK	Ganki	
GNKF	Gonabad	
GNKN	Gaynekanda	
GNL	Ganaly	
GNM	Golden	
GNN	Gunnerudssatern	
GN-NM	Gnome	
GNO	Genoa	
GNOU	Gnosjoe	
GNOW	Gnowangerup	
GNT	Gentilly	
GNW	Green Mountain	
GNYT	Guneyli	
GNZ	Gisborne	
GO-	Gordon	GO-NB
GO01	Chusmiza	
GO02	Mina Guanaco	
GO03	Copiapo@15	
GO04	Tololo Observatory, Vicun@16a	
GO05	Hualan@16e@15	
GO06	Curarrehue	
GO07	Milladeo Hill, Quello@15n	
GO08	Villa O'Higgins	
GO09	Cerro Castillo	
GO10	Punta Arenas	
GOA	Goa	
GOAT	Goat Mountain	
GOB	Galiano Island	
GOBA	Gobu	
GOBAX	Ethiopian Broadband Seismic Experiment	
GOBB	Galiano Island	
GOBY	Gobbelet	
GOC	Griffith Observatory	
GOCB	Gochang-gun	
GOET	G??ttrup	
GOF	Gofitskoye	
GOGA	Godfrey	
GOGM	North Grampians	
GOGS	Gogaran	
GOIL	Rosebud	
GOKC	Gokceada-Canakkale	
GOL	Golden	
GOLD	Kubaka	
GOLH	Golhisar	
GOLR		
GOLS	Golis@17e	
GOLV	Golondrinas	
GOM	Goma	
GOMA	Golmarmara-Manisa	
GON	Gongen	
GO-NB	Gordon	
GONE	Gonen-Balikesir	
GONZ	Gonzanamˆ¡	
GOPC	GO Pecny, Ondrejov, Czech Republic	
GOR	Gori	
GOR1	Gortina	
GORA	Gorafe	
GORC	Green Oak Ranch	
GORE	GORE	
GORG	Isola Di Gorgona	
GORR	Gorreto	
GORS	Gorjuse	
GOS1	Gosan-ri	
GOT	Goteborg	
GOTU	Gotland	
GOU	Gould Hall	
GOV	Govalcot	
GOWB	Gowlland Point	
GOY	Gornyy	
GOZ	Gozaisho	
GP-	Grand Rapids	GP-MN
GPA	Golpazari	
GPD	Greenpond	
GPDO	Montville, Ohio	
GPMM	Pine Mountain	
GP-MN	Grand Rapids	
GPNO	Pichincha	
GPNR	Gulpinar-Canakkale	
GPO	China Lake	
GPS1	Guardaparques de Rincˆ‡n de la Vieja	
GPS2	Hotel Rincˆ‡n de la Vieja Lodge	
GPS3	Bodega del ICE en Pailas	
GPTB	Petit Bourg	
GPV	Virgin Gorda Peak	
GPW	Glacier Peak	
GPY	Gippayama	
GPZ	Gebbies Pass	
GQP	Guinayangan	
GR1C	Gorgona, Isla Gorgona	
GR1TX	Grit	
GR2	Grit	GR2TX
GR2C	Griffith Obs. 2	
GR2TX	Grit	
GRA	Graz	
GRA1	Grafenberg Array	GRF
GRA2	Grafenberg Array	
GRA3	Grafenberg Array	
GRA4	Grafenberg Array	
GRAC	Grapevine Ranger Station, Death Valley	
GRAI	Grandview Point	
GRAM	Graiana	
GRAN	Grantham	
GRAU	Graesoe	
GRB	Gharib	
GRB1	Grafenberg Array	
GRB2	Grafenberg Array	
GRB3	Grafenberg Array	
GRB4	Grafenberg Array	
GRB5	Grafenberg Array	
GRBF	Gourbit	
GRBR	Gravata	
GRBT	Greenback	
GRC	Garchy	
GRC1	Grafenberg Array	
GRC2	Grafenberg Array	
GRC3	Grafenberg Array	
GRC4	Grafenberg Array	
GRCC	Green River Community College BBO	
GRCI	Grant Creek	
GRCU	Cariacou	
GRD	Gardner Farm	
GRDB	Briano	
GRDE	Gerede-Bolu	
GRDM	Monte Maddalena	
GRDQ	Quinzano	
GRDS	Las Granadillas	
GRDT	Desenzano Tresine	

Code	Station Name	Other
GRE	Grenada	
GRE3	Grevena	
GRER		
GRESR	Susuman	
GRF	Grafenberg Array	
GRFF	Grenada Fort Frederick, Mt. Wheldale, St. Georges	
GRFL	Gerfalco	
GRFO	Grafenberg	
GRG	Griva	
GRGC	Isla de Gorgona	
GRGR	Grenville	
GRH	Grahamstown	
GRHS	Sauteurs	
GRI	Girifalco	
GRI*	Grit	GR1TX
GRIC	Isle de Caille	
GRIMS	Grimsel Gerstenegg	
GRIN	Grindle Hills	
GRISU	ISU Giurgiu	
GRJ	Gorje	
GRJI	Gresik	
GRK	Goroka	
GRK1	Goroka	
GRL	Gorelyy	
GRLA	Grayling	
GRM	Grahamstown	
GRMC	Gramalote, Santander	
GRMI	Germi	
GRMM	Round Mountain	
GRN	Grenoble	
GRN*	Grenoble	
GRNB	Grenville Island	
GRNC	Granite Creek	
GRNM	Rancho Navarro	
GRNR	Gornyy	
GRO	Groznyy	
GROC	Groznyy	
GROG	Isola di Gorgona	
GROM	Round Mountain	
GRON	Grota Negra	
GROR	Grindstone Mountain	
GROS	Grobnik	
GRP	Granite Pass	
GRPR	Tuman	
GRQ	Grand Remous	
GRR	Gorron	
GRRI	Grays Lake	
GRRZ	Galatos Road	
GRS	Goris	
GRSN	GIRESUNGRSN	
GRSS	Sisters	
GRT	Gratio	
GRTK	Grand Turk	
GRTM	Round Top Mountain	
GRTR	Gornotajezhnoje	
GRTS	Gornotaezhnoe	
GRUS	Gruza	
GRV	Greenville	
GRVM	Greaves Creek	
GRVS	Gornovodnoe	
GRW	Mount Saint Catherine	
GRX	Grover	
GRY	Greymouth	
GRYON	Gryon	
GRZ	Great Barrier Island	
GRZ1	Mausoleum Waldhaus Greiz	
GS-	Grantsville	GS-MD
GSA	Caltech--GSA	
GSAR	Gosnell High Sch.	
GSC	Goldstone, Barstow	
GSCK	Great Sitkin Cape Kiugilak	
GSCL	Gusciola	
GSCY	Girl Scout Camp	
GSGM	Seigler Mountain	
GSH	Grosshau	
GSI	Gunungsitoli	
GSIG	Igitkin Island	
GSM	Grass Mountain	
GSMB	CHITILA	
GS-MD	Grantsville	
GSMM	Socrates Mine	
GSMY	Great Sitkin Middle Yoke	
GSNM	Snow Mountain	
GSP	Gladstone Stream	
GSPH	General Santos City	
GSQ	Grosses Roches	
GSR	Geological Survey, Reston	
GSSM	Skaggs Springs	SKG
GSSP	Great Sitkin Saddle Point	
GSTB	Goldstream Park	
GSTD	Great Sitkin Triple Divide	
GSTR	Great Sitkin Teapot Rock	
GSUT	Gun Site Peak	
GSV	Goldstream Valley	
GSVT	Goldstream Valley	
GSZ	Glacier Shelter	
GT-	Galeton	GT-PA
GT2	Goat Mountain	
GTA	Gaotai	
GTBY	Guantanamo Bay	
GTC	Three Chop Ridge	
GTD	Georgetown	
GTFE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
GTH2	Gythion	
GTK	Tadong	
GTM	Goat Mountain	
GTMO	Guantanamo	
GTN	Gotemba	
GTO	Geraldton	
GTOI	Gorontalo	
GTP	General Santos	
GT-PA	Galeton	
GTR	Jabal at Tayr	
GTRI	Great Rift	
GTS	Gentvishi	
GTSM	Trough Springs	
GTT	Gottingen	
GTTG	Gvttingen	
GTTN	Green Top	
GTU	Guttu	
GTV	Cerro Toribio	
GTWN	Georgetown Playfield ANSS-SMO	
GUA	Guam	
GUAB	Guayabo de Bagaces	
GUAC	Guacamaya	
GUAL	Guallil	
GUAM	Guam	
GUAMO	Guam	
GUAN	Valle de Guanape	
GUAR	Guarcino	
GUAY	Guayacanes	
GUB	Guba	
GUD	Guadarrama	
GUDA	Gudauri	
GUDE	Ethiopian Broadband Seismic Experiment	
GUDG	Gudauri	
GUEC	Guerrero, Norte de Santander	
GUI	Guimar	
GUIM	Jordan	
GUIV	Guiria	
GUL	Gulkana	
GULA	Gulagac	
GULE	Gulek	
GULF	Gulfidan-Ladik(Samsun)	
GULN	MERSIN_Gulnar	
GULT	Gulveren	
GULW	Guler Mountain	
GUM	Guadalajara	
GUM2	Guadalajara 2	
GUMA	Gualdo di Macerata	
GUMO	Guam	
GUMR	Gum-Bashi	
GUMT	Gumushane	
GUN	Gumba	
GUND	Gundaroo	
GUNE	Kayseri	
GUNV	Guanoco	
GUNZ	Gunzen	
GUO	Oaxaca	
GUR	Goura	
GURO	Guroymak-BITLIS	
GURV	El Guri	
GUT	Gutenstein	
GUV	Guri	
GUV1	Guri Network	
GUV2	Guri Network	
GUV3	Guri Network	
GUV4	Guri Network	
GUV5	Guri Network	
GUVC	San Jose del Guaviare	
GUWA	GUWAHATI	
GUY2C	Guyana, Caldas	
GUYB	Guaymas	
GUYC	Guyana, Colombia	
GUZR	Guzeripl'	
GV-	Grapevine	GV-TX
GVA	Apache Junction	
GVD	Gavdhos	
GVDA	Garner Valley	
GVDS	Gavdos	
GVI	Bet Guvrin	
GVL	Greenvale	
GVMR	Giv'at Hamore	
GVN	Grapevine	
GVR	Green Valley Road	
GVRC	Garvey Reservoir	
GVS	Graniteville	
GV-TX	Grapevine	
GVV	Valley View	
GVZ	Greta Valley South Island, New Zealand	
GWBC	Aumenau	
GWBE	Wiesbaden	
GWBF	Romrod	
GWC	Great Whale River	
GWDE	Greenwood	
GWF	Grand Wintersberg	
GWH	Guwahati	
GWJ	Greenwich	
GWKM	Walker Ridge	
GWR	Great Whale R.	PBQ
GWRM	Wonder Ranch	
GWV	Greenwater Valley	
GWY	Greenwater Valley	
GWYB	Gwangyang	
GY-	Gaylord	GY-MN
GYA	Guiyang	
GYA0	ALIBECK ARRAY SITE A0	
GYA0B	ALIBECK ARRAY SITE A0B	
GYA1	ALIBECK ARRAY SITE A1	
GYA2	ALIBECK ARRAY SITE A2	
GYA3	ALIBECK ARRAY SITE A3	
GYB1	ALIBECK ARRAY SITE B1	
GYB2	ALIBECK ARRAY SITE B2	
GYB3	ALIBECK ARRAY SITE B3	
GYB4	ALIBECK ARRAY SITE B4	
GYB5	ALIBECK ARRAY SITE B5	
GYEB	Cerro Blanco	
GYL	Gyula	
GYM	Guaymas	
GY-MN	Gaylord	
GYMZ	Gyumri	
GYN	Goynuk	
GYO	Guyot Hills	
GZH	Guangzhou	
GZI	Ganzirri	
GZKV	Gazikoy-Tekirdag	
GZL	Zheleznogorsk city	
GZLA	Gyzyletrek	
GZLN	Zheleznogorsk	
GZN	Ground Zero	
GZ-OH	Galion	
GZR	Gura Zlata	
GZS	Gozaisho	GOZ
GZT	Gaziantep	
GZTT	Gaziantep	
GZU	Grizzly Peak	
H01W1	Cape Leeuwin Hydroacoustic Site W1	
H01W2	Cape Leeuwin Hydroacoustic Site W2	
H01W3	Cape Leeuwin Hydroacoustic Site W3	
H02A	Toledo	
H02N1	VAN INLET T-PHASE SITE N1	
H02S1	DAWSON INLET T-PHASE SITE S1	
H03A	Soap Creek Ranch, Albany	
H03N1	Juan Fernandez Island Hydroacoustic Site N1	
H03N2	Juan Fernandez Island Hydroacoustic Site N2	
H03N3	Juan Fernandez Island Hydroacoustic Site N3	
H03S1	Juan Fernandez Island Hydroacoustic Site S1	
H03S2	Juan Fernandez Island Hydroacoustic Site S2	
H03S3	Juan Fernandez Island Hydroacoustic Site S3	
H04A	Detroit Lake	
H04D	Lebanon	
H04N1	CROZET ISLANDS HYDROACOUSTIC SITE N1	
H04N2	CROZET ISLANDS HYDROACOUSTIC SITE N2	
H04N3	CROZET ISLANDS HYDROACOUSTIC SITE N3	
H04S1	CROZET ISLANDS HYDROACOUSTIC SITE S1	
H04S2	CROZET ISLANDS HYDROACOUSTIC SITE S2	
H04S3	CROZET ISLANDS HYDROACOUSTIC SITE S3	
H05A	Madras	
H05N1	Guadeloupe/Martinique T-Phase Site N1	
H05S1	Guadeloupe/Martinique T-Phase Site S1	
H06A	Lindquist Farm, Mitchell	
H06E		
H06E1	SOCORRO T-PHASE SITE E1	
H06N	Isla Socorro	
H06N1	SOCORRO T-PHASE SITE N1	
H06S		
H06S1	SOCORRO T	
H07A	Lands Inn, Kimberly	
H07N1	FLORES T-PHASE SITE N1	
H07S1	FLORES T-PHASE SITE S1	
H08A	Prairie City	
H08N1	Diego Carcia HYDROACOUSTIC SITE N1	
H08N2	Diego Garcia HYDROACOUSTIC SITE N2	
H08N3	Diego Garcia HYDROACOUSTIC SITE N3	
H08S1	Diego Carcia HYDROACOUSTIC SITE S1	
H08S2	Diego Garcia HYDROACOUSTIC SITE S2	
H08S3	Diego Garcia HYDROACOUSTIC SITE S3	
H09A	Durkee	
H09N1	TRISTAN DA CUNHA T-PHASE SITE N1	
H09W1	TRISTAN DA CUNHA T-PHASE SITE W1	
H10A	Noah's Angus Ranch, Cambridge	
H10N1	ASCENSION HYDROACOUSTIC SITE N1	
H10N2	ASCENSION HYDROACOUSTIC SITE N2	
H10N3	ASCENSION HYDROACOUSTIC SITE N3	
H10S1	ASCENSION HYDROACOUSTIC SITE S1	
H10S2	ASCENSION HYDROACOUSTIC SITE S2	
H10S3	ASCENSION HYDROACOUSTIC SITE S3	
H11A	Donnelly	
H11N1	WAKE ISLAND Hydroacoustic Site N1	
H11N2	WAKE ISLAND Hydroacoustic Site N2	
H11N3	WAKE ISLAND Hydroacoustic Site N3	
H11S1	WAKE ISLAND Hydroacoustic Site S1	
H11S2	WAKE ISLAND Hydroacoustic Site S2	
H11S3	WAKE ISLAND Hydroacoustic Site S3	
H12A	Diamond D Ranch, Stanley	
H13A	Challis	
H14A	Leadore	
H15A	Lima	
H16A	Russell Place, West Yellowstone	
H17A	Grant Village	
H18A	Shoshone NF, Cody	
H19A	Powell	
H20A	Greybull	
H21A	Big Horn, Sheridan	
H22A	Clearmont	
H23A	Clabaugh Cattle Company, Gillette	
H24A	Dirks Ranch, Alva	
H25A	Fruitdale	
H26A	Fairpoint	
H27A	Howes	
H28A	Mission Ridge	
H29A	Onida	
H2O	Hawaii-2 Observatory	
H2OWA	Water	
H31A	Wolsey	
H32A	Carlson Farm, Erwin	
H33A	Prehn Over North, Clear Lake	
H34A	Spellman Lake, Hanley Falls	
H35A	Sunnyside Ranch, Fairfax	
H36A	Jessenland, Henderson	
H37A	Dierke Farm, Cannon Falls	
H38A	Maiden Rock	
H39A	Augusta	
H40A	Chili	
H41A	Junction City	
H42A	Shiocton	
H43A	Windswept, Luxemburg	
H45A	Beulah	
H46A	Fife Lake	
H47A	Mio	
H48A	Harrisville	
H52A	Wyevale	
H53A	Bobcaygeon	
H55A	Tweed	
H56A	Elgin	
H57A	Richville	
H58A	Gabriels	
H59A	Cadyville	
H60A	Morristown	
H61A	Lyndonville	
H62A	Milan	
H63A	New Sharon	
H64A	Troy	
H65A	Eastbrook	
H66A	Whiting	
HAB	Haboro	
HABR	Khabarovsk	
HAC	Hachinohe	
HACH	Hacho	
HACJ	Hachinohe 2	
HAD	Hassan Addkhil	
HADB		
HADR		
HAE	Alders End	
HAF	Haifa	
HAFB	Hill Air Force Base, Hill AFB, UT, USA	
HAG	Hague Volcano	
HAGA	Augusta	
HAGD	Aghdareh	
HAGN	Mount Hagen	
HAGS	Hagol	
HAH	Hahryggur	
HAI	Haiwee	
HAIL	Harrisburg (Southeastern Illinois College)	
HAIS	HAIS	
HAJJ	Hajjah	
HAK	Hakodate	
HAKJ	Hakodate 2	
HAKT	HAKKARI	
HAKY	Hadley Quad	
HAL	Halifax	
HALB	Hallimjungang-ro	
HALK	Hakmana	
HALM	Halim	
HALT	Halls	
HALTI	Haltingen (BS)	
HAM	Hamburg	
HAMA	Kahama	
HAMB	Hamyang	
HAMF	Hammerfest	
HAMIK	H?mikon, D?likerfeld, LU	
HAMM	Hamman Mousa	
HAMO	Hamaker Mountain	
HAN	Hanford	
HANI	Diyarbakir_Hani	
HANN	Hanwell	
HANT	Hania	
HAO	Harrison Substation	
HAPS	Han Pijesak,BIH	
HAQS	Haql	
HAR	Hartford	
HAR1	Harban	
HARA	HARA	
HARE	Harare	
HARI	Harich	
HARN	Harre	
HARP	HAARP	
HARR	Harsova	
HART	Harbor Island ANSS-SMO	
HARU	Harads	
HARZ	Haroharo	
HAS	Hastings	
HASLI	Hasliberg/Brienz	
HASS	Wahat al Ahsa'	
HAST	Hastings Reserve	
HASU	Hassela	
HAT	Hattorf	
HATC	Hat Creek Radio Observatory, Hat Creek	
HATD	Hatta, Dubai	
HATH	Hata	
HATHI	Halema'uma'u Trail	
HATI	Hayti	
HATJ	Hateruma jima	
HATO	Hato, Curacao	
HATZ	Hinemaiaia	
HAU	Haudompre	
HAV	Havilah	
HAVC	Havirov	
HAVE	Haverstraw	
HAVL	Avola	
HAVZ	Havza	
HAWA	Hanford	
HAWB	Hwaseong-si	
HAWK	Haweek	
HAWT	Hathaway	
HAY	Hayfield	
HAYA	HAYA	
HAYW	Haystack Fork	
HAZ	Te Kaha	

Code	Station Name	Other
HAZM	Anzar Road	ANZ
HB-	Hobart (Okla)	HB-OK
HBA	Halley Bay	
HBAR	Harrisburg	
HBAZ	Herne Bay Borehole	
HBC	Horseshoe Bay	
HBD	Hovd	
HBDB	Hayseed and Buckwheat Dairy Farm	
HBF	Harts Bluff	
HBH	HawaiianBeaches	
HBL2	Bonnylands	
HBM	Hobart Mills	
HBMT	Mount Humbug	
HBNS	Bani Suef	
HBO	Huckleberry Mountain	
HB-OK	Hobart	
HBR	Haibara	
HBRG	Burj al ‘Arab	
HBSP	Bosco Santo Pietro	
HBST	Basata	
HBT	Hobart Mills	
HBTM	San Juan Bautista	
HBV	Harrisonburg	
HBV2	Hoa Binh	
HBVN	Hoa-Binh	
HBVT	Hinesburg	
HBW	Humming Bird West	
HBZ	Hicks Bay	
HC1P	summerside station 1	
HC2P	summerside station 2	
HC3P	summerside station 3	
HC4P	summerside station 4	
HCA		
HCAM	Canada Road	CDC
HCAT		
HCB	Kahramanmara¯	
HCBM	Chamberlain	CBC
HCC	Holy Cross	
HCG	Craig Goch	
HCI	Hatchie Coon Island	
HCK	Huntoon Valley	
HCNY	Howe Caverns	
HCO	Huanuco	
HCOM	Corn Cob Canyon	
HCPM	Crevison Peak	
HCR	Hot Creek Range	
HCRL	Carlentini	
HCRM	Chase Ranch	CSR
HCU	Horse Canyon	
HCY	Herceg Novi	
HCZM	Cordoza Dairy	
HD-	Howard	HD-PA
HDA	Harding Lake	
HDAN	Heda	
HDAR	W Memph W Sta	
HDB	Hidalgo Marine Base	
HDBT	Hernando Brdge	
HDC	Heredia	
HDC2	Heredia 2	
HDC3	Heredia 3	
HDC4	Heredia 4	
HDG	Hidalgo Mountain	
HDG10	Mitchell Dam	
HDH	Heidenheim-Charlottenhoehle	
HDHB	Dhahab	
HDIL	Hopedale	
HDK	Hidaka	
HDK1	Dakhla	
HDK2	Wahat Dakhilah	
HDLM	Dillon Ranch	DIL
HDM	Haddam	
HDMB	Hadim	
HD-PA	Howard	
HDQ	Headquarters	
HDR	Hadrut	
HDU	Hyde Park	
HDW	Hoodsport	
HE-	Hempstead	HE-TX
HEA	Headley	
HEB	Heber	
HEBO	Mount Hebo	
HEC	Hector,Ludlow	
HED	Hedekas	
HEDF	Idfu	
HEDN	Heda	
HEE	Heerlen	
HEF	Hetta	
HEI	Heidelberg (Koenigstuhl)	
HEKM	Malatya_Hekimhani	
HEL	Helsinki	
HELC	Santa Helena	
HELL	Mitchell Peak, Miramonte	
HEMU	Hemsoen	
HEN	Hengchun	
HENM	Henderson Mound	
HENT	Hendek	
HER	Hermanus	
HER1	Herakleio	
HER2	Herakleio	
HER3	Herakleio	
HERB	Hercules	
HERM	Elkhorn Road	
HERO	Ethiopian Broadband Seismic Experiment	
HERR	Herculane	
HES	Velbert-Hespertal	
HET	Houston--Electro-Tech	
HE-TX	Hempstead	
HEX	Exmoor	
HEXM	Hexham	
HFA0	Hagfors New Array Site A0	
HFA1	Hagfors New Array Site A1	
HFA2	Hagfors New Array Site A2	
HFA3	Hagfors New Array Site A3	
HFB1	Hagfors New Array Site B1	
HFB2	Hagfors New Array Site B2	
HFB3	Hagfors New Array Site B3	
HFB4	Hagfors New Array Site B4	
HFB5	Hagfors New Array Site B5	
HFC2	Hagfors New Array Site C2	
HFEM	San Felipe	SFL
HFHM	Flint Hills	
HFPM	Fremont Peak	FRP
HFRF	Wahat Farafirah	
HFRN	Hoarfrost River	
HFS	Hagfors	
HFSA1	Hagfors Array Site A1	
HFSB1	Hagfors Array Site B1	
HFSB2	Hagfors Array Site B2	
HFSB3	Hagfors Array Site B3	
HFSB4	Hagfors Array Site B4	
HFSB5	Hagfors Array Site B5	
HFSC1	Hagfors Array Site C1	
HFSC2	Hagfors Array Site C2	
HFSU	Holladay Fire Station, Holladay, Utah	
HG1B	Mitchell Dam	
HG3B	Hotspring	
HG4B	Hotspring	
HGA	Collinsville	
HGB	Hanford Gable Butte	
HGH	Gray Hill	
HGJ	Hongo	
HGN	Heimansgroeve	
HGP	Huxley Gorge	
HGPB	Parks Canada Compound	
HGSB	Sid’s House	
HGSD	Ruisui	
HGSM	Gilroy Springs	GHS
HGTCO	Madrid Canyon Road, Trinidad	
HGVB	Ha Giang	
HGVO	Hagersville	
HGWM	Gilroy West	
HGY1	Higuey	
HH-	Hannah	HH-ND
HH2	Hannah	HH2ND
HH2ND	Hannah	
HHAG	Hagoal	
HHAI	Hells Half Acre	
HHAR	Hobbs	
HHC	Hu-ho-hao-te	
HHH	Horse Heaven Hills	
HHI	Harmony Heights	
HHM	Hungry Horse	
HH-ND	Hannah	
HHP	Hogget Hill	
HHR	Hinohara	
HHRG	Al Ghardaqah	
HHS	Hurricane	
HHSZ	Highcliff Hill	
HHT	Hurricane Hollow	
HHWY	High Hoyland	
HIA	Hailar	
HIC	Hidaka-Cho	
HICC	Highline Community College ANSS-SMO	
HICK	Hickman	
HID	Hamer Butte	
HIER	Hierbabuena	
HIG	Hawaii Institute of Geophysics	
HII	Heard Island	
HIK	Hikone	
HIKD	Hikinohira	
HIL	Hilo	
HILA	High Level	
HILE	Hile	
HILG	Hillesheim	
HILS	Ha’il	
HIM	Himeji	
HIN	Hinchinbrook Island	
HINF	Hinteralfeld	
HINZ	Hinze Dam	
HIR	Hiroshima	
HIR1	Hiroshima	
HIRJ	Hiroshima 2	
HIRN	Ethiopian Broadband Seismic Experiment	
HIS	Hisarcik	
HITJ	Hittiya	
HITZ	Hingarae	
HIZ	Hauiti	
HIZO	HIZO	
HJA	Humahuaca	
HJGM	San Juan Grade	
HJH	Honjo	
HJJ	Hachijo jima	
HJO	Hjoernedal	
HJSM	John Smith Road	
HJY	Honjo	HJH
HK-	Hawk Springs	HK-WY
HKAT	Jabal Katrina	
HKB	Herkenbosch	
HKC	Hong Kong Observatory	
HKCD	Cape D’Aguilar	
HKER	Hawker	
HKFR	Khafra	
HKI	Fushiki	
HKJ	Hokoriku	
HKL	Haleakala	
HKLI	Keung Shan	
HKLK	Luk Keng	
HKLM	Lead Mine Pass	
HKM	Hinckley	
HKN	Hawks Nest	
HKNB	Havelock Quarry	
HKNS	Hadbat Hakran	
HKOY	Hamitkoy-Ladik(Samsun)	
HKP	Hidden Lake	
HKPS	Hong Kong Po Shan	
HKR	Hakkari	
HKRM	Kincaid Ranch	
HKSL	Siu Lam	
HKT	Hockley	
HKWD	Heukewalde	
HK-WY	Hawk Springs	
HKZM	Kohzaman	
HL-	Hailey	HL-ID
HL2	Hailey	HL2ID
HL2ID	Hailey	
HLA	Hall’s Lagoon	
HLBJ	Hallabat	
HLD	Halaksitan	
HLE	Halle	
HLG	Helgoland	
HLGA	Haflong	
HLGC	Holguin	
HLH	Cerro de Hule	
HLID	Hailey	
HL-ID	Hailey	
HLJ	Hailstone	
HLK	Haleakala	
HLL	Cape Hallett	
HLLC	North Hollywood	
HLM	Helmville	
HLM1	Long Mynd	
HLN	Hualilan	
HLNC	Highland	
HLNI	Lentini	
HLP	Hilina Pali	
HLPM	Lions Peak	
HLR	Highland Ranch	
HLRZ	Highlands Station	
HLS		
HLSB	Harrison Lake South	
HLT	Holt	
HLTM	Lone Tree Road	LTR
HLW	Helwan	
HLX	Hole	
HLZ	Helez	
HM-	Hundred Mile H.	HM-BC
HMA	Khanty-Mansiysk	
HMAT	Matruh	
HMB	Hamburg	
HMBC	Humberstone	
HM-BC	100 Mile House	
HMC	Holland Mills	
HMCY	Holy Mount Cemetery	
HMD	Hamada	
HMDC	Modica	
HMDM	Hanimaadhoo	
HMDT	Nahal Hemdat	
HMES	Hamm, Michael-Ende-School	
HMG	Houelmont	
HMH	Humu'ula Sheep Station	
HMK	Himekami	
HML	Hamilton	
HML1	Hamley Bridge	
HMM	Hamamatsu	
HMMJ	Hamamatsu 2	
HMN	Homestead National Monument	
HMNA	Hamren	
HMNO	Mineo	
HMNT	Holman	
HMNX	Herstmonceux	
HMO	H. Mason	
HMOM	Monterey	MTR
HMR	Hamilton Ranch	
HMRJ	Hamra	
HMSA	Hans M’sky res	
HMSM	Jabal Masmas	
HMT	Hamilton	
HMTC	Hemet	
HMTD	Hikami	
HMTJ	Hamta	
HMTT	Tlapaneco	
HMU	Henry Mountain	
HMV1	Hindmarsh Valley	
HMYD	Mayadein	
HN-	Houlton	HN-ME
HNAT	Natroun	
HNAZ	Hnaberd	
HNB	Haney	
HNBB	Haney	
HNG	Hongo	
HNH	Hanover	
HNHZ	Havelock North	
HNKL	Nakhl	
HNL	Honolulu	
HNL1	Hanuchal	
HNM	Heniu Mare	
HNME	Houlton	
HN-ME	Houlton	
HNMJ	Hino-misaki	
HNR	Honiara	
HNSH	Hunish Island	
HNTI	Hanita	
HNV	Hanoi	
HNY	Hamilton	
HNZ	Havelock North	
HOBC	El Hobo	
HOBG	Hohbusch	
HOCH	Hornopire@15n	
HOD	Hodge	
HODGE	Hodges	
HOF	Hof	
HOFF	Hoffen	
HOG	Hogback Mountain	
HOGG	Hoggard’s Bluff	
HOGH	Ho	
HOH	Hohenheim	
HOI	Hoima	
HOJ	Hope	
HOJA	Cerro de Hojas	
HOK	Hohkeppel	
HOKE	Hokigiyama	
HOL	Holguin	
HOLB	Holberg	
HOLC	Holcomb Ridge	
HOLY	Holy Rosary School	
HOM	Homer	
HOMB	Hombersund	
HOME	McLaughlin Mine	
HOMI	Horasan	
HON	Honolulu	
HONK	Hondo	
HONU	Honeyville	
HOO	Hiroo	
HOOD	Mount Hood Meadows	
HOOJ	Hiroo 2	
HOP	Hope Bay	
HOPB	Hope	
HOPE	Hope Point	
HOPEN	Hopen	
HOPM	Mount Hope	
HOPOS	Hopovo Monastery	
HOPS	Hopland Field Station, Hopland	
HOPT	Hopper	
HOQ	Hoqain	
HOQC	Horqueta	
HOR	Horta	
HORH	Horominai	
HORM	O’Connell Ranch	OCR
HORN	Hornachuelos	
HORNC	Hornillas	
HORQ	Saladito	
HORT	Hortiatis	
HORU	Horodok	
HOSA	Ethiopian Broadband Seismic Experiment	
HOT	Hot Springs Mountain	
HOU	Houston	
HOW	Howrah	
HOWZ	Holdsworth Station	
HPAC	Pachino	
HPAH	Hawaii Preparatory Academy	
HPAR	Pala Acreide	
HPCM	Pacheco Lake	
HPE	Pembroke	
HPHM	Park Hill	PKH
HPI	Howe Peak	
HPIG		
HPK	Haverah Park	
HPKT	Knoxville	
HPLM	Pacheco Lake	PCL
HPLN	Hepburn Lake, NWT	
HPO	Honuapo	
HPP	Hepp	
HPRM	Peckham Road	PKC
HPU	Hale Pohaku	
HQL	Haql	
HQLS		
HQN	Harlequin Lake	
HQRH	Quien Sabe	QSR
HQRM		QSR
HQSR		
HR-	Heber	HR-AZ
HRA	Herat	
HRAD	Harad	
HRAO	HartRAO	
HR-AZ	Heber	
HRB	Hurbanovo	
HRC	Harris Ranch	
HRD	Hirodai	
HRDDS		
HRDS	Abu Rudays	
HRF	Holter Research Foundation--Helena	
HRFI	Mount Harif	
HRG	Hirogawara	
HRH	Heinrich-Robert Mine	
HRI	Mount Hermon	
HRJ	Horyu	
HRK	Horoka	
HRKL	Herakleio	
HRM	Kawasaki	
HRMB	Harrison Mills	
HRMC	Merrill Creek	
HRMR	Khuramsha	
HRN	Horndal	
HRO	Hermiston	
HROE	Hohe Rhon--Flad	
HRRZ	Handcock Road	
HRSH	Kfar Ka’horesh	
HRT	Hereke	
HRTT	Hiratsu	
HRTX	Hereke-Izmit	
HRU	Hogsback Ridge	
HRUT	Hardware Ranch	HWUT
HRV	Adam Dziewonski Observatory (Oak Ridge)	
HRY	Holter Research Foundation--York Bridge	
HS-	Hay Springs	HS-NB
HSA	Swansea	
HSAF	As Saff	
HSAM	Samen	
HSB	Akutan Spr’s Bay	
HSFA	Helvecia	
HSFG		
HSFM	Saint Francis Retreat	
HSH	Hashikami	
HSHJ	Hashim	
HSHL	Bi'r Shalatayn	
HSI	Hsinkong	
HSIG		
HSJ	Hoshina	
HSK	Changchun	
HSLM	San Luis Dam	
HSMO	Haileybury School of Mines	
HSN	Hsinchu	
HS-NB	Hay Springs	
HSND	Hausen	
HSNJ	Maan	
HSO	Harness Mountain	
HSP	Hornsund	
HSPB	Hornsund (broadband)	
HSPGA	Hill Springs, Alberta	
HSPM	Sheep	
HSPR	La Hesperia	
HSR	South Ridge	
HSRG	Sareghieh	
HSRS	Siracusa	
HSRZ	Hossack Road	
HSS	Hokkaido University	
HSUJ	Al Zarqa	
HSW	Hot Spot	
HSY	Hisarkoy	
HT-	Hastings	HT-MN
HTC	Hot Caves	
HTCH	Hutch Mountain	
HTCR	Hilton Creek	
HTG	Hatgal	
HTK	Hotokeiwa	
HTL	Hartland	
HTM1	Hato Mayor	
HT-MN	Hastings	
HTMS	Hat Mesa	
HTN	Hohentengen	
HTQ	Hauterive	
HTR	Trewern Hill	
HTT	Hallett	
HTU	Hoyt Peak	
HTUJ	Hattaushi	
HTUM	Tustin Road	
HTW	Haystack Lookout	
HTY	Hatay	
HUA	Huancayo	
HUAR	Huara	
HUBA	Hudson Bay High School ANSS-SMO	
HUCH	Huasco	
HUDU	Hudiksvall	
HUEN		
HUES	Huehuecho	

Code	Station Name	Other
HUG	Huitzitzil	
HUG01	Santa Cruz, CA USA	
HUH	Hualalai	
HUIG	Huatulco	
HUK2	Heuksan-myeon	
HUL	Heiheiahulu	
HULD	Heiheiahulu Digital	
HUMM	Hume Dam	
HUMO	Hull Mountain	
HUMP	Col San Antonio	
HUMR	Humele	
HUN	Hundersingen	
HUNY	Huinay	
HUO	Hudson	
HUOR	Husband	
HUR	Hurricane	
HURP	Huarmaca	
HUSU	Husum	
HUTB	Hutbay	
HUTI	Huta Ginjang	
HUTZ	Huka	
HUV	Hue	
HUZ	Huaraz	
HV-	Havre	HV-MA
HVA	Hanceville	
HVAR	Hvar	
HVC	Hernandez Valley	
HVD	Gariep Dam	
HVHR	Bakirkoy-Istanbul	
HVIT	Vittoria	
HVK	Hallstavik	
HVL	Huntoon Valley	
HVLK	Havelock	
HV-MA	Havre	
HVO	Hawaiian Volcano	UWE
HVS	Khovu-Aksy	
HVU	Hansel Valley	
HVZN	Vizzini	
HW-	Hawaii Isl. Ar.	HW-IS
HWA	Hwalien	
HWAP	Hualien Port	
HWB	Hans Werner Braun Residence, San Diego	
HWCB	Hwacheon	
HWD	Hollywood	
HWF	Haulerwijk	
HWF1	Haulerwijk	
HWF2	Haulerwijk	
HWF3	Haulerwijk	
HWF4	Haulerwijk	
HW-IS	Hawaii Isl. Ar.	
HWK	Hiawatha	
HWKB	Hawksbury Island	
HWKN	Hawk's Nest	
HWQ	Hawqa	
HWSI	Howe Scarp	
HWSM	Haiwee Spring South	
HWTS	Hohenwarte Talsperre	
HWUT	Hardware Ranch	
HWV	Hinton	
HWYS	Al Hawiyah	
HWZ	Hwange	
HXI	Guiyang	GYA
HY-	Hysham	HY-MA
HYA	Hoyanger	
HYB	Hyderabad	
HYBA	Heybeliada-Istanbul	
HYBB	Hyderabad (broadband)	
HYBL	Heybeliada	
HYC	Haney	
HYD	Hyderabad	
HYF	Humbligny	
HY-MA	Hysham	
HYR	Heyderabad	
HYS	Haystack Butte	
HYT	Haines Junction	
HYX	Hoyt Mine	
HZA	Huzimizaka	
HZTE	HZTE	
I02A	Mapleton	
I02AR	USHUAIA INFRASONIC ARRAY REFERENCE POINT	
I02D	Swisshome	
I03A	Eugene	
I03D	Drain, OR	
I04A	Tendick Farm, Oakridge	
I04AU	SHANNON INFRASONIC ARRAY REFERENCE POINT	
I05A	Bend	
I05AU	HOBART INFRASONIC ARRAY REFERENCE POINT	
I05D	Terrebonne, OR	
I06A	Prineville	
I07A	Izee	
I07AU	WARRAMUNGA INFRASONIC ARRAY REFERENCE POINT	
I08A	Drewsey	
I08BO	LAS PEÑAS INFRASONIC ARRAY REFERENCE POINT	
I09A	Lost Marbles Ranch, Westfall	
I09BR	BRASILIA INFRASONIC ARRAY REFERENCE POINT	
I10A	Payette	
I10CA	LAC DU BONNET INFRASONIC ARRAY REFERENCE POINT	
I11A	Placerville	
I11CV	MAIO ISLAND INFRASONIC ARRAY REFERENCE POINT	
I12A	Atlanta	
I13A	Wildhorse Creek, Mackay	
I13CL	EASTER ISLAND INFRASONIC ARRAY REFERENCE POINT	
I14A	Mackay	
I14CL	ROBINSON CRUSOE ISLAND INFRASONIC ARRAY REFERENCE POINT	
I15A	Monteview	
I16A	Newdale	
I17A	Pilgrim Ck.	
I17CI	DIMBOKRO INFRASONIC ARRAY REFERENCE POINT	
I18A	Diamond G Ranch, Dubois	
I18DK	QAANAAQ INFRASONIC ARRAY REFERENCE POINT	
I19A	Meeteetse	
I19DJ	I19DJ	
I20A	Worland	
I21A	Big Trails, Ten Sleep	
I21FR	MARQUESAS ISLAND INFRASONIC ARRAY REFERENCE POINT	
I22A	9 Mile Ranch, Kaycee	
I22FR	PORTLAGUERRE INFRASONIC ARRAY REFERENCE POINT	
I23A	Meade Ranch, Gillette	
I23FR	KERGUELEN INFRASONIC ARRAY REFERENCE POINT	
I24A	Kuemmerle Ranch, Upton	
I24FR	TAHITI-TARAVAO INFRASONIC ARRAY REFERENCE POINT	
I25A	Rochford	
I26A	New Underwood	
I26DE	FREYUNG INFRASONIC ARRAY REFERENCE POINT	
I27A	Quinn	
I27DE	GEORG VON NEUMAYER INFRASONIC ARRAY REFERENCE POINT	
I28A	Midland	
I29A	Vivian Onida	
I30A	Oacoma	
I30JP	ISUMI INFRASONIC ARRAY REFERENCE POINT	
I31A	Royce, Wessington Springs	
I31KZ	AKTYUBINSK INFRASONIC ARRAY REFERENCE POINT	
I32A	Karley and Nick, Howard	
I32KE	NAIROBI INFRASONIC ARRAY REFERENCE POINT	
I33A	Coleman	
I33MG	ANTANANARIVO INFRASONIC ARRAY REFERENCE POINT	
I34A	Hadley	
I34MN	SONGINO INFRASONIC ARRAY REFERENCE POINT	
I35A	Creekview Farms, Bingham Lake	
I35NA	TSUMEB INFRASONIC ARRAY REFERENCE POINT	
I36A	Fitzsimmons Farm, Good Thunder	
I36NZ	CHATHAM INFRASONIC ARRAY REFERENCE POINT	
I37A	Lemond, Waseca	
I37NO	I37NO	
I38A	Scanlan Farm, Eyota	
I39A	Houston	
I39PW	PALAU INFRASONIC ARRAY REFERENCE POINT	
I40A	Norwalk	
I41A	Arkdale	
I41PY	VILLA FLORIDA INFRASONIC ARRAY REFERENCE POINT	
I42A	Draeger Farm, Ripon	
I42PT	GRACIOSA ISLAND INFRASONIC ARRAY REFERENCE POINT	
I43A	Langenfeld Brothers Farm, Elkhart Lake	
I43RU	DUBNA INFRASONIC ARRAY REFERENCE POINT	
I44RU	ROPAVLOVSK-KAMCHATSKY KY INFRASONIC ARRAY REFERENCE POINT	
I45A	Fountain	
I45RU	USSURIYSK INFRASONIC ARRAY REFERENCE POINT	
I46A	Reed City	
I46RU	ZALESOVO INFRASONIC ARRAY REFERENCE POINT	
I47A	Gladwin	
I47ZA	BOSHOF INFRASONIC ARRAY REFERENCE POINT	
I48A	Sherman Twp	
I48TN	KESRA INFRASONIC ARRAY REFERENCE POINT	
I49A	Point Hope	
I49GB	TRISTAN DA CUNHA ISLAND. INFRASONIC ARRAY REFERENCE POINT	
I50GB	ASCENSION ISLAND INFRASONIC ARRAY REFERENCE POINT	
I51A	Listowel	
I51GB	BERMUDA INFRASONIC ARRAY REFERENCE POINT	
I52A	Shelburne	
I52GB	DIEGO GARCIA INFRASONIC ARRAY REFERENCE POINT	
I53A	Kortright Cn Earth Rangers Ctr, Woodbridge	
I53US	FAIRBANKS INFRASONIC ARRAY REFERENCE POINT	
I55A	Frankford	
I55US	WINDLESS BIGHT INFRASONIC ARRAY REFERENCE POINT	
I56US	NEWPORT INFRASONIC ARRAY REFERENCE POINT	
I57A	Carthage	
I57US	PINON FLAT INFRASONIC ARRAY REFERENCE POINT	
I58A	Old Forge	
I59A	Olmsteadville	
I59US	HAWAII INFRASONIC ARRAY REFERENCE POINT	
I60A	Shoreham	
I61A	Oroboro, Fairlee	
I62A	Tamworth	
I63A	Otisfield	
I64A	Boothbay	
IAA	In Amguel	
IACL	Alicudi	
IACM	Heraklion	
IADA	Aoalbol	
IAE	Cedar City, Iron County	
IAFJ	Afjeh	
IAG	Institut Agronomique	
IAKL	Akhelmad	
IALA	Alasht	
IALF	Alftagrof	
IAND	Andimeshk	
IANJ	Anjilo	
IAS	Iasi	
IASB	A@15sbjarnarstat ir	
IASBS	W01	
IASK	Askja	
IASM	Asmuli	
IASO	Asolfsskalaheidi	
IAUS	Austmannsbunga	
IAV	Isla Aves	
IAZR	Azarshahr	
IBAF	Bafgh	
IBAR	Ibarra	
IBAV	Isla La Blanquilla	
IBBE	Ibbenbueren East	
IBBN	Ibbenburen	
IBBS	Ibbenbueren South	
IBDR	Badra	
IBJA	Bjarnastaoir	
IBK	Innsbruck	
IBND	Bandar-abas	
IBP	Imperial Boulder Park, Ocotillo	
IBRE	Brettingsstaoir	
IBRJ	Brojen	
IBRU	Bruarjokull	
IBST	Bostanabad	
IBU	Ibuki Yama	
IBZA	Bozab	
IC-	Ice Cap	IC-GL
ICA	Ica	
ICC	Iquique	
ICCO	Coco Island	
IC-GL	Ice Cap	
ICH	Ichihara	
ICHK	Chekchek	
ICI	Italian Canyon	
ICM	Isla Caja Muertos	
ICMP	Isla Caja de Muertos, Puerto Rico	
ICO	Isla del Coco	
ICOR	Ion Corvin	
ICQ	Pointe Anglais	
ICR	Volcan Irazu	
ICU	Indian Springs Canyon	
ICY	Ichiyama	
ID1	Idaho Array 1	
ID2	Idaho Array 2	
ID3	Idaho Array 3	
ID4	Idaho Array 4	
ID5	Idaho Array 5	
IDA	Idaho Array	
IDAH	Dahanechah	
IDC	Isla del Cano	
IDE	Isla Desecheo	
IDGL	Inch Island, Co Donegal	
IDHR	Dehrash	
IDI	Anoyia	
IDID	Didziasalis	
IDIM	Dimmadalsˆ¡s	
IDJZ	Idjevan	
IDMV	Damavand	
IDOB	Doab	
IDR	Idriss Premier	
IDSA	Dashabbas	
IDYN	Dyngjuhals	
IECU	Ecuador Network	
IELO	Elcoad	
IEMG	Emamgholi	
IENR	Iengra	
IENT	Enta	
IEPA	Eparoz	
IESK	Eystri-Skogar	
IESO	Jesolo	
IESS	Sede Social del IESS - Quito	
IFAG	Fagurholsmyri	
IFED	Fedgar	
IFIL	Filicudi I Eolie	
IFIR	Firoozkooh	
IFLA	Flatey	
IFR	Ifrane	
IFTB	Fath-abad	
IGAB	Igarata	
IGAR	Gharneh	
IGBI	Denpasar	
IGD	Bursa	
IGDI	IGDIR	
IGGU	Iggoen	
IGHA	Grjothals	
IGHG	Ghaleghazi	
IGHS	Grjothals	
IGIG	Irapuato, Guanajuato	
IGIL	Gilhagi	
IGL	Igloolik	
IGLA	Glengowla, Co Galway	
IGLN	Igloolik	
IGLO	Ghaloghah	
IGLU	Glumsstadir	
IGM	Isla Guadalupe	
IGOD	Go??abunga	
IGPR	InterUniversity Guayama PR	
IGR	Igron	
IGRA	Granastaoir	
IGRF	Grimsfjall	
IGRI	Grimsey	
IGRS	Grimsstaoir	
IGRV	Grindav??k	
IGT	Igoumenitsa	
IGUA	Igualata	
IGYG	Gygjarholskot	
IGZV	Ghazvin	
IHA	Instituto Hidrografico de la Armada	
IHAE	Haedir	
IHAU	Haukadalur	
IHC	Ixhuatan	
IHED	Heoinshofoi	
IHEI	Heioarbar	
IHLA	Hella	
IHLN	Indian Hill Lake	
IHOS	Hoseineyeh	
IHR	Ishihara	
IHRN	Hraun	
IHRS	Heris	
IHSB	Hasanabad	
IHSH	Hashtrud	
IHUS	Husbondi	
IHVA	Hvannstoosfjoll	
IHVE	Hveravellir	
IHVO	Lagu-Hvolar	
IIA	Altzomoni	
IIB	San Bernardino	
IIC	Rita Coyotepec	
IID	Iida	
IIDJ	Iida	
IIGN	Ignalina	
III	Iguala	
IIJ	Jocotitlan	
IIM	Instituto de Ingenieria, UNAM	
IIO	Organos	
IIP	El Pino	
IIS	IISEE	
IISM	Ciudad Serdan	
IIT	Tonantzintla	
IIZ	Mezontepec	
IJDJ	Iida	IIDJ
IJF	Islas Juan Fernandez	
IJOK	Jokulheimar	
IK-	Ink	IK-AR
IKAL	Kalfafell	
IKAR	Kharkheh	
IK-AR	Ink	
IKAS	Kald??rsel	
IKAZ	Kazeroun	
IKFM	Kafar-mosalman	
IKIA	Kiasar	
IKJ	Ikusaka	
IKL	Isikli	
IKLH	Kolahrood	
IKMR	Kamar-syah	
IKOM	Komasi	
IKOO	Kooshah	
IKP	In-Ko-Pah, Jacumba	
IKRD	Kardeh	
IKRE	Kreppuhraun	
IKRI	Krysuvik	
IKRK	Kirkuk	
IKRO	Krokur	
IKSK	Karasker	
IKUD	Kuludalsa	
IKVO	Krokottuvotn	
IKZ	Isoka	
IL01		IL1
IL02	Eielson Array Site 2	
IL03	Eielson Array Site 3	
IL04	Eielson Array Site 4	
IL05	Eielson Array Site 5	
IL06	Eielson Array Site 6	
IL07	Eielson Array Site 7	
IL08	Eielson Array Site 8	
IL09	Eielson Array Site 9	
IL1	Eielson Array Site 1	
IL10	Eielson Array Site 10	
IL11	Eielson Array Site 11	
IL12	Eielson Array Site 12	
IL13	Eielson Array Site 13	
IL14	Eielson Array Site 14	
IL15	Eielson Array Site 15	
IL16	Eielson Array Site 16	
IL17	Eielson Array Site 17	
IL18	Eielson Array Site 18	
IL19	Eielson Array Site 19	
IL31		ILB
ILA	Ilan	
ILAM	Ilet Lapin Martinique	
ILAN	Ilam	
ILAR	Eielson Array Beam Reference Point	
ILAS	Lasjerd	
ILB	Eielson Array Broadband	ILAR
ILCA	Isla Las Cabras	
ILCH	Illapel	
ILEI	Leirhofn	
ILG	Inge Lehmann	IC-GL
ILGA	Ilgaz	
ILI	Ili	
ILIC	ilic-Erzincan	
ILIM	Iliamna	
ILIN	Lien	
ILIQ	Lip Q Pani IE	
ILKN	Indian Lake	
ILLI	Illinizas Sur - Rasayacu	
ILM	Iliamna	
ILMG	Lip M Gallina IE	
ILN	Island Lagoon	
ILO	Iloilo	
ILOC	Iloca	
ILON	Igloolik, Nunavut	
ILS	Iliamna Low South	
ILT	Iul'tin	
ILTH	Belurgan, Co Louth	
ILUG	Ilulissat, Greenland	
ILULI	Ilulissat	
ILW	Iliamna West	
IM01	Indian Mountain Array Site 1	
IM02	Indian Mountain Array Site 2	

Code	*Station Name*	*Other*
IM03		IM3
IM04	Indian Mountain Array Site 4	
IM05	Indian Mountain Array Site 5	
IM3	Indian Mountain Array Site 3	
IMA	Indian Mountain	
IMA2	Indian Mountain	
IMAH	Mahabad	
IMAR	Indian Mountain Array Beam Reference Point	
IMAT	Imadeyama	
IMBA	Imbabura, San Roque	
IMEH	Mehriz	
IMEL	Melhnausar	
IMG	Imagane	
IMHD	Mahdasht	
IMI	Imperia	
IMID	Miomork	
IMIN	Minoodasht	
IMJ	Imajo	
IMJO	Mjoaskard	
IMK	Imi Mikki	
IMKO	Mokollar	
IML	Ismayilli	
IMM	Islas Marias	
IMMV	Iera Moni Metamorfosis, Varipetro, Chania, Crete	
IMND	Minoodasht	
IMNS	Imangra	
IMO	Isla Mona	
IMOB	Isla Mona	
IMOG	Moghan	
IMOK	Mouk	
IMOL	Imola, Italy	
IMON	Monand	
IMOV	Isla Los Monjes	
IMP	Imphal	
IMPR	Mona Island, PR	
IMR	Isla Mona	
IMRD	Marand	
IMS	Imsbach	
IMT	Isola di Marettimo	
IMU	Iron Mountain	
IMW	Indian Meadow	
IMWB	Imwonan-gil	
IMYA	Miami	
IN1	Indiana Array	
IN2	Indiana Array	
IN3	Indiana Array	
IN4	Indiana Array	
INA	Iinan	
INB	Inubo	
INC	Inchon	
INCN	Inchon	
INCR	INCERC-Sediu Central	
IND	Independence	
INDC	Indio Hills	
INDN	Indianola	
INE	Iliamna NE	
INEE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
INF	Infanta	
ING	Ingram Ranch	
INGI	Ingas	
INH	Isangel	
INK	Inuvik	
INKA	Innaminka	
INMG	Instituto de Meteorologia, Lisbon	
INMK	Ichinomiya	
INN	Innsbruck	
INPP	Ignalina Nuclear	
INR	Itanagar	
INS	Inspiration	
INSR	Institute	
INTR	Introdacqua	
INTV	Intevep	
INU	Inuyama	
INUQ	Inukjuak	
INV	Inveralochy	
INVG	Invergeldie, Comrie	
INW	Iliamna NW	
INY	Ithaca	
INYL	Nylenda	
INZ	Inchbonnie	
IO-	Ione	IO-NV
IOCA	Ischia Osservatorio Casamicciola	
IOMK	Kirk Michael	
IO-NV	Ione	
IOSP	Ios island	
IP01	Cuckoo	
IP03	Louisa	
IP04	Greensprings	
IP05	Hopewell Church	
IP06	Yanceyville	
IP07	Quail	
IPA	Ipanguacu	
IPAN	Panarea IE	
IPAR	Pars	
IPAY	Payeh	
IPE	Ipeti	
IPES	Pescosannita	
IPIL	Ipil	
IPIR	Pirpir	
IPM	Ipoh	
IPMB	Ipameri, GO	
IPOZ	Pozzuoli	
IPRE	Itoiz	
IPRN	Peran	
IQHU	Qucahn	
IQOM	Qom	
IQQ	Iquique	
IR1	Iran Long-Period Array	
IR2	Iran Long-Period Array	
IR2C	Iron Canyon	
IR3	Iran Long-Period Array	
IR4	Iran Long-Period Array	
IR5	Iran Long-Period Array	
IR6	Iran Long-Period Array	
IR7	Iran Long-Period Array	
IRAM	Ramesheh	
IRAZ	Razeghan	
IRC	Iron Canyon	
IRCI	INEL Research	
IRDE	Institut de recherche pour le d^veloppement - Quito	
IREN	Reynihlio	
IRI	Irimote jima	
IRIF	Iriomote-Funauki	
IRIN	Iringa	
IRJU	Rjupnafell	
IRK	Irkutsk	
IRM	Iron Mountain Pumping Sta,Desert Center	
IRN	Iron Mountains	
IRNE	Reykjanes	
IRO	Indian Ridge	
IRS	Iris	
IRSH	Iranshahr	
IRZ	Volcan Irazu	
IRZ2	Volcan Irazu 2	
IS2	Icelocation 2	
ISA	Isabella, Lake Isabella	
ISAD	Sadrabad	
ISAL	Salakas	
ISAN	Sandskeio	
ISAU	Saurbar	
ISAV	Santa Isabel	
ISBA	Islamabad	
ISCO	Idaho Springs	
ISE	Ise	
ISF	Isfjord	
ISFB	Sefidab	
ISFR	Sfrayin	
ISH	Ishtion	
ISHB	Shabestar	
ISHJ	Ishigaki Ryukyu Islands	
ISHM	Shahmirzad	
ISHO	Shoshtar	
ISHR	Shahran	
ISHV	Shirvan	
ISI	Ishigaki jima	
ISIG	Siglufjorour	
ISIK	Ishii	
ISK	Istanbul-Kandilli	
ISKI	Skildingah^‡lshraun	
ISKR	Skrokkalda	
ISKY	Isaakyan	
ISL	Ismayilll	
ISLE	Juniper Island	
ISLN	Salina IE	
ISLY	Slysaalda	
ISLZ	Isanotski Lazaref River	
ISM	Ismayilli	
ISMJ	Smjorgil	
ISN	Ishinomaki	
ISNB	Snabyli	
ISNN	Isanotski North	
ISO	Isola	
ISOG	Isortoq, Greenland	
ISOL	Solvholt	
ISOR	Termini	
ISP	Isparta	
ISPL	Str Punta Lena IE	
ISPT	Isla de la Plata	
ISPU	Isla Pun^¡	
ISQ	Mount Isa	
ISR	Istrita	
ISRB	Sarab	
ISRF	Istric ta	
ISRO	Mashad	
ISRV	Sarvestan	
ISSF	Issarbe	
IST	Istanbul	
IST1	Istanbul	
IST3	Stromboli F	
ISTK	Isanotski	
ISTP	Stromboli Pizzo	
ISTR	Stromboli Ginostra	
ISU	Indiana State University	
ISVA	Svartarkot	
ITA	Itatiaia	
ITAN	ITANAGAR	
ITB	Itaipu	
ITB1	Itaipu 1	
ITB7	Itaipu 7	
ITBT	Itumba	
ITBZ	Tabriz	
ITC1	Ithaki	
ITD	Itadori	
ITE1	Itea	
ITEG	Tejag	
ITEV	Isla Los Testigos	
ITF10	CHI Itaipu Binacional	
ITF11	CHI Itaipu Binacional	
ITF4	CHI Itaipu Binacional	
ITF6	CHI Itaipu Binacional	
ITG	Itzapa	
ITGE	Itoigawa	
ITH	Ithaca	
ITHO	Ithomi	
ITIT	Ipitacuapi	
ITKG	Kharagpur	
ITKT	Itaka	
ITM	Ithomi	
ITO	Ito	
ITQB	Itaqui	
ITR	Itaparica	
ITR2	Itaparica 2	
ITR5	Itaparica 5	
ITRB	Iturama	
ITTB	Itaituba	
ITU	Istanbul	
ITZ	Itezhi-Tezhi	
IUG	Iuzhnay	
IUNC	Unciti	
IUSE	Utxeti	
IVA	Berane	
IVAG	Clark Hill Reservoir	
IVAS	Ivanjica	
IVAT	Vatnsfell	
IVCR	Vulcano Cr IE	
IVE	Iliamna Volcano East	
IVES	Vestmannaeyjar	
IVF	Ivanof Bay	
IVGM		
IVGP	Vulcano Grotta dei Palizzi	
IVI	Ivigtut	
IVIS	Veis	
IVIV	IVIC	
IVK	Ivanovka	
IVKQ	Ivujivik	
IVLT	Vulcano Lentia IE	
IVME	Vestmannaeyjar	
IVN	Inveralochy	
IVOG	Vogar	
IVON	Vonarskard	
IVOS	Vogsosar	
IVOT	Vottur	
IVRN	Varamin	
IVS	Iliamna South	
IVSH	V-Sauoahnukur	
IVSM	Inverness	
IVT	Ira	
IVUG	Vulcano Grillo IE	
IVY	Inveralochy	
IWEX	Carrickbyrne, Co Wexford	
IWJ	Iwai-Kita	
IWK	Iwaki	
IWN	Iwanai	
IWO	Iwaosan	
IWT	Iwatsuki	
IXC	Ixtacomitan	
IXG	Ixpaco	
IXT	Ixtapalapa	
IZAB	Izabela	
IZAR	Zarasai	
IZEF	Zefreh	
IZI	Iznik	
IZK	Iizuka	
IZM	Izmir	
IZMH	Iizume	
IZN	Iznik	
IZT	Izumi	
IZU	Izuhara	
IZU2	Izuhara 2	
IZUJ	Izuhara	
IZUN	Zunzarren	
IZV	Izvestkoviy	
IZVB	Izvoarele B	
IZVR	Izvoarele	
J01D	Myrtle Point	
J01E	Myrtle Point	
J02A	Umpqua	
J03A	Ideyld Park	
J04A	Umpqua National Forest, Toketee	
J04D	Umpqua National Forest, Toketee, OR	
J05A	Fort Rock	
J05D	Fort Rock, OR	
J061	Lakeshore Drive, S. Francisco	
J06A	Christmas Valley	
J07A	Hines	
J08A	Circle Bar Ranch, Crane	
J09A	Fry Pan Ranch, Harper	
J10A	Berg Farm, Melba	
J12A	Stokes Ranch, Hill City	
J13A	Cove Ranch, Picabo	
J14A	Carey	
J15A	Blackfoot	
J16A	Bone	
J17A	Brown Place, Jackson	
J18A	Kendall Valley, Cora	
J19A	Crowheart	
J20A	Shoshoni	
J21A	Lysite	
J22A	Midwest	
J23A	Dilts Ranch, Bill	
J24A	Dixon Ranch, Lance Creek	
J25A	Sunshine Ranch, Edgemont	
J26A	Sides Ranch, Smithwick	
J27A	Elkhorn Farm, Martin	
J28A	Allard Ranch, Norris	
J29A	Okreek	
J30A	Dallas	
J31A	Geddes	
J32A	Parkston	
J33A	Davis	
J34A	George	
J35A	Milford	
J36A	Seneca 1, Swea City	
J37A	Redenius Farm, Forest	
J38A	Wedel Dairy, Riceville	
J39A	Decorah	
J40A	Soldiers Grove	
J41A	Loganville	
J42A	Columbus	
J43A	Natural Harvest Farm, Hartford	
J45A	Montague	
J46A	Howard City	
J47A	Sunmer	
J48A	Bridge Port	
J49A	Marlette	
J52A	Paris	
J54A	Appleton	
J55A	Hilton	
J56A	Wolcott	
J57A	Williamstown	
J58A	Remsen	
J59A	Piesco	
J60A	Lant Hill Farm, Argyle	
J61A	Chester	
J62A	Henniker	
J63A	Strafford	
JA-	Jasper	JA-MN
JAA	Atsumi	
JAB	Ashibetsu	
JAC	Jacksonville	
JAC01	Canan^ia-SP	
JACH	Jahuel	
JACV	Jacura	
JAD	Aida	
JAG	Ashikaga	
JAGI	Jajag, Banyuwangi	
JAGN	Aguni-jima	
JAH	Hinai	
JAHD	Aomorihigashidori	
JAI	Aioi	
JAJ	Awaji shima	
JAJ2	Tsuna	
JAK	Akkeshi	
JAKH	Jacmel	
JALM	Almaden	AMC
JAM	Amami Oshima	
JAMA	Jama	
JAMN	Amaminishikomi	
JA-MN	Jasper	
JAN	Janina	
JAN03	Januaria	
JAN06	Januaria	
JAN07	Januaria	
JAN08	Januaria	
JAN09	Januaria	
JAN2	Jannena	
JAN3	Jannena	
JANA	Janakpur	
JANB	Januaria	
JAND	Jandula	
JANG	Nango	
JAO	Obara	
JAOM	Aogashimamukaizawa	
JAP	San Jose, Antique	
JAQ	La Grande 3	
JAR	Ashorobuto	
JARJ	Jarash	
JARK	Aomorirokkasho	
JAS	Jamestown	
JAS1	Jamestown	
JASL	Jaisalmer	
JAT	Jato	
JATB	Jatai	
JAU	Jaout	
JAUF	Jausiers	
JAVC	Velka Javorina	
JAVS	Javornik	
JAW	Awa shima	
JAWL	J.Aulia	
JAWN	Awajishima-nagasawa	
JAY	Jayapura	
JAZS	Jizan	
JBB	Jbel Babet	
JBBQ	Temiscaming	
JBCM	Bear Creek Road	LT15
JBEP	Beppuamama	
JBG	Jabagly	
JBGM	Bear Gulch	BGH
JBLM	Camp Ben Lomond	
JBMM	Black Mountain	
JBNB	Ben Lomond Mountain, Santa Cruz County	
JBO	Jordan Butte	
JBP	Jabalpur	
JBQ	La Grande 3	
JBRM	Jenolan Black	
JBT	Biratori	
JBT2	Biratori 2	
JBZM	Buzzard Lagoon Road	
JC04	Joao Camara	
JC05	Joao Camara	
JC06	Joao Camara	
JC1B	Joao Camara	
JC20	Joao Camara	
JCBM	Chesbro Res.	CBO
JCC	Jacoby Creek, Bayside	
JCE1	John's Creek	
JCH	Churui	
JCHM	Cahill Ridge	
JCJ	Chichijima	
JCJI	Jatiwangi	
JCK	Jackerath	
JCM	Jocotitlan	
JCMO	Jefferson College	
JCN	Nagara	
JCNB	Joaquin Canyon North	
JCPM	Coyote Point	
JCQ	La Grande 3	
JCR	Jicaral	
JCSB	Joaquin Canyon South	
JCT	Junction City	
JCUZ	Jacuzzi	
JCW	Jim Creek	
JCZ	Jackson Bay	
JDC	Jersey Dam (Crest)	
JDG	Jersey Dam (Gallery)	
JDN	Jardin	
JDRJ	Daraweish	JRDJ
JE-	Jena (USA)	JE-LA
JECB	Eureka Canyon	
JECI	Jenson Cabin	
JECM	Eureka Canyon	EUC
JEF	Cerro Jefe	
JEG	Eigenji	
JEGM	El Granada	
JEHI	Jehsanih	
JE-LA	Jena	
JELB	Ellicott, Santa Cruz County	
JELM	Ellicott	
JEM	Erimo	
JEN	Jena	
JENM	Jeeralang Junction	
JER	Jerusalem	
JERN	Jeri Cho Mine, NWT	
JET	Tanbara	
JETT	Jettan, Norway	
JEW	Eniwo	
JFA	Akaike	
JFFD	Fukushimafurudono	
JFI	Itaya	
JFK	Kawauchi	
JFM	Mihama	
JFNN	Fujinakano	
JFO	Juiz de Fora	
JFP	Foothills Park , Santa Clara County	
JFR	Furan	
JFS	Joseph F. Staten	
JFT	Otama	
JFU	Fukue jima 2	
JFWS	Jewell Farm	
JFY	Yanaizu	
JGF	Kuroka	
JGI	Juniper Gulch	
JGK	Kuni	
JGM	Miyama	
JGN	Niukaw	
JGT	Gotsu	
JGT2	ShimaneMisato	
JHA	Jbel Lahdid	
JHBN	Jahan bin	
JHC	Johnson Canyon	
JHCJ	Hachijojimakashitate	
JHD	Hondo	
JHE	Heguri	
JHG	Hegura jima	
JHGM	Hagimishima	
JHH2	Haha-jima-NKT2	
JHHC	Hyugahichiya	
JHHJ	Haha-jima-NKT	
JHHS	Hirosakihyakuzawa	
JHI	Jorhat	

Code	Station Name	Other
JHIK	Hikimi	
JHJ	Hachijo jima 2	
JHJ2	Mitsune	
JHK	Hiroka	
JHLM	Holstrom Ranch	
JHLN	Al Jahlan	
JHM	Kurahashi	
JHMK	Hamakita	
JHN	Johnson	
JHNI	Jhansi	
JHO	Hitachi	
JHP	Judd Hill Plantation	
JHPM	Huddart Park	
JHR	Hokuryu	
JHRM	Jahrom	
JHS	Saijyo	
JHST	Hiyamasetana	
JHT	Toyohira	
JHTM	Izuhatsuma	
JHU	Hanno	
JHUM	Huhtala Lane, Santa Cruz County	
JHY	Hiyama	
JHYU	Hitachinakayamanoue	
JIAM	Iburiatsuma	
JICN	Ichinomiyachiaki	
JIDR	Jimani	
JIE	Ise	
JIG	Jinotega	
JIH	Iheya	
JIHU	Itakohorinouchi	
JII	Iki	
JIJ	Ishigaki jima 2	
JIKH	Ishinomakikobuchihama	
JIKM	Ikemajima	
JIL	Jilotepec	
JIM	O shima 2	
JIM2	Oshima 3	
JIMA	Ethiopian Broadband Seismic Experiment	
JIN	Jindabyne	
JIND	Jindrichovice	
JIO	Ouri	
JIRB	Irabujima	
JIRI	Jiri	
JIRN	Jiri	
JIS	Juneau Island	
JISG	Ishigakijimahirakubo	
JISK	Izumosakaura	
JISS	Ishikarishitsubu	
JIU	Izumi	
JIU2	Izumi 2	
JIU3	Izumi3	
JIW	Iwasaki	
JIZ	Nakaizu	
JIZN	Jizan	
JIZS	Izushimoda	
JIZZ	Izumozaki	
JJG	Jouge	
JJH	Hakui	
JJK	Kushima	
JJN	Nakama	
JJO	Oda	
JJOM	Saint Joseph's Hill	
JJRM	Joaquin Road	
JJS	Sakaide	
JJT	Tamagu	
JJT2	Tamagusuku 2	
JJT3	Tamagusuku3	
JKA	Kamikawa-asahi	
JKB	Kayabe	
JKC	Kuchinoerabu	
JKD	Kudamatsu	
JKDJ	Kitadaitoujima	
JKE	Kume jima 2	
JKEN	Kujiedanarisawa	
JKG	Kaga	
JKHN	Kushirohamanaka	
JKHR	Kochiharuno	
JKI	Kunimi	
JKIT	Kitakata	
JKJ	Kijyo	
JKK	Kamikawa	
JKK2	Kamakawa 2	
JKKG	Kakegawa	
JKKS	Kakegawashinomba	
JKM	Jackman	
JKMT	Kesennumamotoyoshi	
JKN	Kiinagashima	
JKN2	Miekihoku	
JKO	Kozu shima	
JKR	Kurayoshi	
JKRS	Kuro-shima	
JKS	Kasai	
JKSM	Kasumi	
JKT	Katashina	
JKU	Kubokawa	
JKUC	kamogawauchiura	
JKY	Yasaka	
JKZ	Kuzumaki	
JLAB	Laurel Hill	
JLAM	Laurel Hill	
JLDW	Jackson Lake Dam	
JLK	June Lake	
JLN	Jalan Bani Buhassan	
JLOS		
JLP	Les Platons	
JLPM	Loma Prieta	
JLTM	Los Trancos	LTW
JLU	Jordanelle	
JLXM	Lexington Res.	LXR
JMAF	Mimaanabuki	
JMAG	Jamag	
JMB	Yambol	
JMBI	JAMBI	
JMD	Masuda	
JMDO	Jabal Madar	
JMG	Jumaytepeque	
JMGM	Milagra Ridge	MGA
JMH	Hososhima	
JMI	Jan Mayen	
JMIC	Jan Mayen	
JMIK	Miki	
JMJ	Miyako jima 2	
JMJ2	Miyako jima3	
JMK	Ichinoseki	
JMKN	Mikurajimanishikawa	
JMM	Marumori	
JMMH	Miemihama	
JMN	Monobe	
JMOS	Jabal al Moallq	
JMP	Maruseppu	
JMPM	Menlo Park	
JMQS	Jabal Moqyreh	
JMS1	Jamestown	
JMST	Minamisoumatochikubo	
JMT	Mikata	
JMTN	Minamitane	
JMU	Jammu	
JMY	Miyakejima3	
JMZ	Minamidaito 2	
JN-	Johnston I.	JN-IS
JNA	Nagahama	
JNAM	New Almaden Mine	
JNAR	Kushima--Naru	
JNB	Noboribetsu	
JNBK	Urakawa-nobuka	
JNE	Jan Mayen East	
JNG	Nsakai	
JNH	Juniper Hills	
JNI	Jehonathan	
JNIO	Niijimaoohara	
JN-IS	Johnston Island	
JNJ	Junjel	
JNK	Nakash	
JNKG	Nichinankitagou	
JNL	Jenolan Caves	
JNM	Ikuma	
JNN	Nakanoshima	
JNS	Sasagawa	
JNSB	Nemuroshibetsu	
JNT	Takato	
JNTH	Nagotoyohara	
JNTK	Naratenkawa	
JNTW	Noshirotokiwa	
JNU	Nakatsue	
JNW	Jan Mayen West	
JNY	Yasuok	
JO-	Jordan	JO-MN
JOAQ	Joaquin Lookout	
JOB	Onbets	
JOD	Odawara	
JOD2	Odawara 2	
JOE	Joensuu	
JOF	Joensuu	
JOFO	Osakifurukawaosaki	
JOG	Oga	
JOG2	Oga 2	
JOG3	Oga3	
JOGS	Gusukube	
JOH	Johannesburg	
JOHAN	St. Johann (BS)	
JOHN	Johnston Island	
JOI	OKI	
JOK	Jbel Ouklim	
JOKE	Okinoerabujima	
JOL	Jolon Road	
JOM	Ohasama	
JOMM	Oshimamatsumae	
JO-MN	Jordan	
JON	Johnnie	
JOPP	Joppolo	
JOR	Okushj	
JOR1	San Jorge 1	
JORD		
JORG	San Jorge	
JORH	JORHAT	
JORV	Jorden Valley SMO	
JOS	Josvafo	
JOSI	Joshimath	
JOSM	Okushiri--Matsue	
JOSN	Second Sedna Site,Hudson Bay	
JOSR	Joseni	
JOT	Ohata	
JOU	Okura	
JOW	Kunigami	
JOZ	Jozini	
JP-	Jasper	JP-AT
JP-AT	Jasper	
JPC	Peters Creek, San Mateo County	
JPK	Jack Peak	
JPLM	Pleasant Valley	PEV
JPPM	Portola Park	LT3
JPRM	Presidio of San Francisco	
JPSM		PSD
JQE	Queens East	
JQX	Jiquilpan	
JR-	Jerome	JR-AZ
JRA	Rausu	
JR-AZ	Jerome	
JRBB	Jordan River	
JRBN	Rebuntou	
JRC2	Joshua Ridge	
JRDJ	Daraweish	
JRG	Rokugo	
JRGM	Rodeo Gulch Road	
JRKH	Jarkhoshk	
JRO	Jston Ridge Obs	
JRQG	Juriquilla Campus	
JRR	Rishiri	
JRRM	Redwood Retreat	
JRS	Jersey	
JRSC	Jasper Ridge	
JRSJ	J Risha	
JRTX	Jordan Ranch	
JRWM	Joshua Ridge West	
JRY	Ryogami san	
JS-	Jackson	JS-TN
JSA	Saint Aubin	
JSAM	San Andreas	SAC
JSB	Shiboa	
JSBM	San Bruno Mountain	
JSC	Jenkinsville	
JSCH	Cashca Tororas, San Jose de Chimbo	
JSCM	Stevens Creek	SEC
JSD	Sado	
JSE	Soyaes	
JSFB	Stanford Telescope, Santa Clara County	
JSFM	Stanford	SFT
JSG	Sagara	
JSGM		SGC
JSGW	Sagamiharawakayanagi	
JSH	Shimam	
JSHD	Hidakashinhidaka	
JSI	Shiura	
JSI2	Shiura 2	
JSJ	Shimokoshiki	
JSJM	St Joseph	SJH
JSK	Shakotan	
JSK1	Jask	
JSKE	Saikikamae	
JSKK	Shikinejimakita	
JSLM	San Andreas Lake	
JSM	Jim Sage Mountain	
JSMM	Sawmill Road	
JSMT	Sammumatsuo	
JSOJ	Natural Resources Authority	
JSR	Shiriuchi	
JSRW	J. Sargeant Reynolds Community College	
JSS	Shosan	
JSSM	Soda Springs	SOS
JSSY	Shinshiroyabe	
JSTM	Santa Teresa Hills	
JS-TN	Jackson	
JSU	Suzuyama	
JSZ	Suzu	
JSZI	Iwateshizukuishi	
JTA	Tamana	
JTAJ	Takarajima	
JTB	Tobi-shima	
JTG	Taga	
JTGM	Trout Gulch Road	
JTH	Tanohata	
JTHR	Tokachihiroo	
JTHY	Toshimahigashiyama	
JTJ	Tarama	
JTK	Tokunoshima	
JTKR	Abashiri--Tokoro	
JTM	Tenmabayashi	
JTMT	Jette	
JTN	Tanegashima 3	
JTNC	Tanabenakahechi	
JTO	Tosashimizu	
JTR	Joshua Tree Park	
JTRM	Los Trancos Road	
JTS	JuntasAbangares	
JTSM	Tsushimamitsushima	
JTSN	Tsuno	
JTSR	Tashiro 2	
JTT	Ttatey	
JTU	Tsushima	
JTY	Toyota	
JTZ	Takazaki	
JU-	Juno	JU-TX
JUA2	San Juan 2	
JUAN	San Juan	
JUBA	Jubany	
JUCM	University of California, Santa Cruz	
JUD	Juan Diaz	
JUD2	Juan Diaz 2	
JUD3	Juan Diaz 3	
JUE	Julich	
JUG	Jugenheim	
JUI3	Juive 3	
JUI6	Juive	
JUIV	Juive	
JUJ	Jujuy	
JULC	Julian	
JUM	Jug	
JUMK	Jumkunaria	
JUMM	Mount Umunhum	
JUND	Jungingen	
JUQB	Juquia	
JUR	Ureshino	
JURR	Jurilovca	
JUS	Usuki	
JU-TX	Juno	
JVI	Jordan Valley	
JVM	Valle D.L. Mare	
JVW	Jocassee View	
JWA	Jwalamukhi	
JWK	Wakkake-Misaki	
JWK2	Keihoku	
JWKM	Wakayamakushimoto	
JWL	Jwalamukhi	
JWM	Minabe	
JWSM	Woodside	WDS
JWT	Wachi	
JWY	Kouya	
JWZ	Kozaga	
JYA	Atsumi	
JYAK	Yakushimahirauchi	
JYAR	Yonezawaarcadia	
JYG	Yagishiri	
JYJ	Yonaguni jima 2	
JYK	Kaneyama	
JYM	Yakumo	
JYM2	Yakumo 2	
JYN	Shimob	
JYNG	Yonagunijimakubura	
JYO	Yokosk	
JYP	Jyotipuram	
JYRO	Yoronjima	
JYS	Shirataka	
JYSA		
JYT	Yasato	
JYTA	Yamagatataniai	
JYW	Yuwa	
JYYZ	Yamagatayuza	
JYZW	Yoshizawa	
JZK	Kikaishima	
JZO	Okuchi	
K01	Nishinai	
K01A	Sixes	
K02	Yamasaki	
K02A	Glendale	
K02D	Willamette Meridian	
K03	Shimotochinai	
K04	Kokoji	
K04A	Chilquin	
K04D	Chiloquin, OR	
K05	Ishipane	
K05A	Summer Lake	
K06	Arakawa	
K06A	Valley Falls	
K07	Kotohata	
K07A	Rock Creek Ranch, Frenchglen	
K08	Monomi-yama	
K08A	Mann Creek Ranch, Princeton	
K09	Ooide	
K09A	Rome	
K10	Oonodaira	
K10A	MacKenzie Ranch, Jordan Valley	
K11	Fujikirizawa	
K11A	Parker Ranch, Bruneau	
K12	Koide	
K12A	Draper Farm, Castleford	
K13A	Stover Farm, Hazelton	
K14A	Jones Ranch, Declo	
K15A	Arbon	
K16A	Soda Springs	
K17A	Gardner Place, Afton	
K18A	Toltan Ranch, Big Piney	
K19A	Absolon Red Butte, Lander	
K20A	Yellowstone Ranch, Lander	
K21A	Alcova	
K22A	Casper	
K23A	Bowen Ranch, Douglas	
K24A	Anderson Ranch, Keeline	
K25A	Mack Ranch, Harrison	
K26A	Motz Farm, Whitney	
K27A	Flueckinger Farm, Gordon	
K28A	Ten Mile Ranch, Cody	
K29A	Lazy Trails Angus Ranch, Wood Lake	
K30A	Basset	
K31A	O'Neill	
K32A	Verdigre	
K33A	Hardington	
K34A	Le Mars	
K35A	Storm Lake	
K36A	Gilmore City	
K37A	Belmond	
K38A	Parkersburg	
K39A	Oelwein	
K40A	Colesburg	
K41A	Shullsburg	
K42A	Prairie Point, Evansville	
K43A	Burlington	
K46A	Dorr	
K47A	Vermontville	
K48A	Perry	
K49A	Clarkson	
K50A	Casco	
K51A	Iona Station	
K52A	Tillsonburg	
K54A	Basiliko Farm, Boston	
K55A	Perry	
K56A	Middlesex	
K57A	Scipio Center	
K58A	Earlville	
K59A	Cooperstown	
K60A	Five Rivers Env. Education Center, Delmar	
K61A	Williamstown	
K62A	Royalston	
K63A	Dunstable	
KAA	Karratha	
KAAM	Kaadhehdhoo	
KAAO	Kabul (SRO)	KBL
KAAZ	Kauri Point	
KAB	Kabansk	
KABR	Katmai Barrier Ridge	
KABU	Katmai Buttress	
KAC	Achnashellach	
KAC1	Kato Achaia	
KACW	Kace¯ov	
KAD	Karad	
KADD	Katsuyama	
KAE	Kaena	
KAF	Kangasniemi	
KAG	Kagoshima	
KAGG	Kagssortoq	
KAGI	ˆorum-Karg¯–	
KAGJ	Kagoshima 2	
KAH	Kaushut	
KAHC	Katmai Hardscrabble Creek	
KAHG	Katmai Hook Glacier	
KAHM	Kahramanmara¯/Dulkadiro¯lu	
KAHT	Ahir Dag	
KAHZ	Kahuranaki	
KAI	Kaimata	
KAIC	Katmai Ikagluik Creek	
KAIM	Kayak Island	
KAJ	Kashiwara	
KAJD	Katsuyama	
KAJQ	Kangiqsualujjuaq	
KAK	Kakioka	
KAKA	Kakadu	
KAKJ	Kakioka Outpost	
KAKN	Katmai Knife Crk	
KAL	Kalocsa	
KAL3	Kalamata	
KALB	Balgarevo	
KALE	Kalithea	
KALG	Kalgarh	
KALI	Kaliastana	
KALN	Kalnik	
KALP	Kalibo	
KALU	Kalix	
KAM	Kameyama	
KAMA	Osmaniye	
KAMOR	Kamor	
KAMP	Kamchatka Peninsula	
KAMR	Kamenskoye	
KAMRY	Kamaran Island	
KAMS	Al Khamasin	
KAMT	Kaman	
KAMZ	Kamo	
KAN	Kanazawa	
KAN2	Kanazawa 2	
KAND	Kocaeli-Kandira	
KANH	Kanahau	
KANJ	Kanazawa	
KANM	Kanangra Walls	
KANO	Kano Inlet	
KANT	Kantara	
KAO	Kapuskasing	
KAP	Karpathos	
KAPH	Katmai Pasha	
KAPI	Kappang	
KAPO	Kapuskasing	
KAPS	Kapalarasan	
KAPZ	Kaputan	
KAQ	La Grande 4	
KAR	Karachi	
KAR1	Arisaig	
KARA	Karaisali	
KARAX	Ethiopian Broadband	

	Seismic Experiment	
KARD	Karad	
KARG	Kargicak-Mersin	
KARJ		
KARM1	KARONGA	
KARN	Karanos	
KARO	Karliova-Bingol	
KARP	Karpathos	
KARR	Katmai Rainbow River	
KARS	Kars	
KART	Kargi	
KARY	Karystos	
KARZ	Kaharoa	
KAS	Kastamonu	
KAS2	Kastoria	
KASA	Kassiopi	
KASI	Kota Agung	
KASO	Kasabonika Lake, First Nations Ontario	
KAST	KASTAMONU	
KAT	Kizyl-Arvat	
KATH	Katherine N.T. Australia	
KATL	Kadamtala	
KATS	Katnaghbyur	
KATZ	Kakaramea	
KAU	Kaohsiung	
KAUP	Kaohsiung Port	
KAUR	Kamensk Uralskiy	
KAV	Kavieng	
KAVA	Kavala	
KAVG	Kavieng	
KAVV	Kandilli-Istanbul	
KAVZ	Karewarewa	
KAWH	Katmai	
KAY	Katlanovo	
KAYA	Kayacik-Havza(Samsun)	
KAYN	Sakarya/Kaynarca-Ta¯oluk	
KAZ	Karuizawa	
KAZ1	Kazerun	
KB1O	Rock site, Kinburn Side Road	
KB2O	John Shaw Road	
KB3O	Grant Side Rd.	
KB4O	Donald B. Munro Dr,	
KB5O	Diamondview Rd.	
KB6O	John Shaw Road, remote	
KBA	Koelnbreinsperre	
KBAZ	Karaka Road Borehole	
KBB	Kelsey Bay	
KBBA	Kibumba	
KBBM	Bear Butte	
KBC	Kumba	
KBD	Kabd	
KBDG	Kleinbodungen	
KBE	Kobe	
KBF	Kyburz Flat	
KBG	Krutoberegovo	
KBH	Kobugahara	
KBH1	Kgwebe Hills	
KBI	Kettle Butte	
KBI1	Birley Grange	
KBJ	Kelbejer	
KBK	Karagaybulak	
KBKI	Kotabaru	
KBKS	Kabaktan	
KBL	Kabul	
KBM	Katmai Bkd Mtn	
KBN	Korca	
KBNM	Bluenose Ridge	
KBO	Bosley Butte	
KBQ	La Grande 4	
KBR	Kanchanaburi	
KBRM	Barry Ridge	
KBRS	Khaybar	
KBS	Kingsbay	
KBSD	Kabsdagh	
KBSM	Bell Springs	
KBT	Komakuk Beach	
KBTC	Kuba-Taba	
KBTI	Kibati	
KBTR	Krutoberegovo 1	
KBU	Kabul University	
KBUK	KARABUK-Merkez	
KBY	Kobayashi Ranch	
KBZ	Khabaz	
KBZS	Brezje pri Sen	
KC-	Kansas City	KC-MO
KCA	Cave	
KCC	Kaiser Creek	
KCE	Katmai Mt Cerb's	
KCG	Knife Ck. Glacier	
KCH	Monts Chateau	
KCHF	Cheshme Sefid, Kermanshah	
KCHI	Karachi	
KCHT	Kechabta	
KCI	Kelly Canyon	
KCM	Kilenge	
KC-MO	Kansas City	
KCN	Ketchikan	
KCP	Kidapawan	
KCPM	Cahto Peak	
KCQ	La Grande 4	
KCRM	Chalk Rock	
KCSI	Kotacane, Aceh	
KCSM	Cold Springs	
KCT	Karacabey	
KCTM	Capetown	
KCTX	Karacabey (Bursa)	
KCY	Kuchiyama	
KD1	Kodiak	
KD2	Kodiak	
KD3	Kodiak	
KDA	Kuranda	
KDAG	Bornova	
KDAK	Kodiak Island	
KDB	Konedobu	
KDC	Kodiak Island	
KDE	Karadeniz	
KDG	Kedougou	KED
KDHN	Kadinhani	
KDI	Kendari	
KDJ	Kajisay	
KDK	Khodzhikent	
KDKW	Coast Env Seattle	
KDM	Kudat	
KDMR	Kurdemir	
KDN	Kodinsk	
KDR	Kadzharan	
KDS	Kedougou	
KDT	Kodera	
KDTR	Khodutka, Kamchatskaya Oblast',Russia	
KDU	Kakadu	
KDUT	Kidman Hollow	
KDV	Kandavu Island	
KDZ	Kurdzhali	
KDZE	Karadeniz Ereoli	
KE-	Kennewick	KE-WA
KEA	Kealakomo	
KEB	Keban	
KEBB	NEPTUNE Canada Endeavour West	
KEBE	Keben-Mersin	
KEBM	Edson Butte	
KEC	Kecskemet	
KECS	Kecovo	
KED	Kedougou	
KED*	Kedougou	KDS
KEDI	Kedomdong	
KEE	Keen Camp Maintenance Station	
KEEL	Keeler	
KEF	Keuruu	
KEFOR	Forestry Corps, Argostoli (Cefalonia, Greece)	
KEG	Kottamaia	
KEH	Kehvi	
KEIM	Keimoes	
KEK	Kerkira	
KEKH	Kekaha	
KEKT	Kekliktepe	
KEL	Kelud	
KELA	Mount Kelaz	
KELB	Kelsey	
KELC	Kelly Hill Caves	
KELI	Kelakatan	
KELR	Kotokel	
KELT	Kelkit	
KEM	Kemerovo	
KEMA	Kemaliye	
KEMF	NEPTUNE Canada Main Field	
KEMO	NEPTUNE Canada Mothra	
KEMT	Kemer-ANTALYA	
KEN	Kenai	
KENC	Cerro Kenedy	
KEP	King Edward Point	
KEPZ	Antalya-Kepez	
KER	Kermanshah	
KER02	Argostoli (Greece)	
KERA	Keramoti	
KERG	Konya-Eregli	
KERI	Keren	
KERU	Kerch	
KES	Ksar Es Souk	HAD
KES02	Argostoli (Greece)	
KES04	Argostoli (Greece)	
KES06	Argostoli (Greece)	
KES08	Argostoli (Greece)	
KES11	Argostoli (Greece)	
KES13	Argostoli (Greece)	
KES14	Argostoli (Greece)	
KES16	Argostoli (Greece)	
KES18	Argostoli (Greece)	
KES22	Argostoli (Greece)	
KES29	Argostoli (Greece)	
KESN	Edirne-Kesan	
KEST	Kesra	
KESW	Keswick, Cumbria	
KET	Keravat	
KETS	Keti	
KETU	Ketumbeine	
KETZ	Ketetahi	
KEUT	Kanab	
KEV	Kevo	
KEV1	Kevo	
KEW	Kew	
KE-WA	Kennewick	
KEWM	Kewanee	
KEY	Kluane	
KEY1	Keyworth	
KEY2	Keyworth	
KFA	Klagenfurt	
KFAL	Klamath Falls	
KFC	Kentfield	
KFH	Kaoiki Faults	
KFJS		
KFL	Anninata	
KFNJ	Kafrein	
KFO	Klamath Falls	
KFPM	Farley Peak	
KFRA	Kufra	
KFTR	Kaftarguzar	
KFU	Kofu	
KG-	Kingman	KG-AZ
KG-AS	Kingman	
KG-AZ	Kingman	
KGD	Kothagudem	
KGF	KGF	
KGI	Kellogg	
KGJ	Kitakami	
KGL	Cahul	
KGM	Kluang	
KGMA	Kigoma	
KGMK	Kamigamo	
KGMM	Grouse Mountain	
KGN	Komagane	
KGNI	Kongan	
KGNO	Kingston	
KGR	Kogok River	
KGSKZ	Kyrgizsay	
KGT	Karabiga	
KGUR	Krasnodar	
KGW	Kakegawa	
KH-	Kohls Ranch	KH-AZ
KHA	Khancoban	
KHAL	Karahalli	
KHAR	Kharino, NSO, Russia	
KHAT	Khait	
KH-AZ	Kohls Ranch	
KHB	Jabal al Khashab	
KHB1	Khanabri-I	
KHBM	Hayfork Bally	
KHBR	Khabarovsk	
KHC	Kasperske Hory	
KHE	Kheis	
KHEL	Khelvachauri	
KHET	Khetri	
KHEZ	Kahui Hut	
KHF	Khenifra	
KHG	Khandyga	
KHGB	Koh Gabri	
KHI	Kakhk	
KHI1	Khiner	
KHIT	Khitrov Hills	
KHJ	Kushihara	
KHK	Keihoku	
KHKI	Kahang-Kahang	
KHL	Karahalli	
KHLH	Kahului Airport	
KHLM	Kholmsk	
KHLT	Khaolaem Dam	
KHLU	Kahalu'u	
KHM	Kohima	
KHMM	Horse Mountain	
KHMN	Narli-Kahramanmaras	
KHMZ	Khomeyn	
KHN	Khani	
KHNJ	Kahnooj	
KHNR	Khani	
KHNS	Khani	
KHO	Khorog	
KHON	Khomkaen	
KHR	Khorongon	
KHS	Khaishi	
KHS1	Khanabri	
KHSK	Kohestak	
KHT	Khao Laem Dam	
KHU	Kahuku	
KHUM	Khumson	
KHUZ	Khuzdar	
KHVA	Khvani	
KHVB	Wang Home	
KHY	Khatystyr	
KHZ	Kahutara	
KIA	Kiara Terrace	
KIAG	Kiagna River	
KIAM	Kaiam	
KIB	El Ksiba	
KIBA	Kibaya	
KIBK	Kibwezi	
KIBS	BOLU	
KIC	Kosan Boka	
KICM	Kanaga Island Cape Miga	
KIE	Kermit	
KIEV	Kiev	
KIF	Kilpisjarvi	
KIF1	Kiffisia	
KIG	Kigali	
KIH	Kanekii	
KII	Karymskiy	
KIJ	Kawah Idjen	
KIJV	Kijevo	
KIK	Kika Raxquin	
KIKV	Kanaga Island Kanaga Volcano	
KIL	Kilembe	
KILO	Kirkland Lake	
KIM	Kimberley	
KIMB	Kimball Elementary School	
KIMD	Kanaga Island MID Benchmark	
KIMR	Kitsap County Moderate Risk Waste Facility	
KIN	Kingston	
KINC	Kanaga Island North Cape	
KING	Kindia	
KINR	Kitsap County North Road Shed	
KIOM	Kiomboi	
KIP	Kipapa	
KIPH	Kalayaan	
KIPM	Iron Peak	
KIR	Kiruna	
KIRH	Kanaga Island Round Head	
KIRK	K¯–rklareli	
KIRO	Kirovokan	
KIRR	Kirishev	
KIRS	K¯–r¯ehir-Merkez	
KIRV	Kirov	
KIS	Kishinev	
KIS1	Kissamos	
KISE	Kishinomiya	
KISK	Kishima-dake	
KIT	Kermit	
KIT*	Kaitaia	
KITB	Kitimat	
KITD	Kitadake	
KITH	Kitausu	
KITP	Kitsap County Wastewater Treatment Plant	
KIV	Kislovodsk	
KIV0	Kislovodsk Array Site 0	KVAR
KIV1	Kislovodsk Array Site 1	
KIV2	Kislovodsk Array Site 2	
KIV3	Kislovodsk Array Site 3	
KIW	Kapiti Island	
KIWB	Kanaga Island Westway Bight	
KIY	Kiyosumi	
KIYI	Yal¯–koy-Catalca	
KIZ	Kirchzarten	
KIZK	Mersin	
KIZO	Buyukkizoglu-Ladik(Samsun)	
KIZR	Kizel	
KIZT	Kizilcal	
KJA	Kiajanaja	
KJAB	KAMANJAB	
KJF	Kajaani	
KJJM	Johnny Jack Ridge	
KJKQ	Kuujjuarapik	
KJL	Kejulik	
KJN	Kajaani	
KK01	Karatay Array site	
KK02	Karatay Array site	
KK03	Karatay Array site	
KK04	Karatay Array site	
KK05	Karatay Array site	
KK06	Karatay Array site	
KK07	Karatay Array site	
KK08	Karatay Array site	
KK09	Karatay Array site	
KK31	Karatay Array site	
KKAR	Karatay Array	
KKB	Krupnik	
KKBE	Karaman7Kaz¯–mkarabekir	
KKD	Korintji-Dempo	
KKG	Kukul	
KKGU	Kamikuga	
KKH	Kailua Kona	
KKHI	Kotkhai	
KKI	Karkar Island	
KKJ	Kaminokuni	
KKL	Karkaralinsk	
KKLA	Kookooligit Mountain	
KKM	Kota Kinabalu	
KKN	Kakani	
KKO	Keanaka@18ko'i	
KKPM	Kettenpom Peak	
KKR	Kurukshetra	
KKRS	Karmrakar	
KKS	Kukesi	
KKSI	Kolaka, Sulawesi	
KKT	Kermit	
KKTK	Khon Kaen	
KKU	Keanakolu	
KKUL	Konya-Kulu	
KKW	Kainokawa	
KKY	Kaikoura West	
KKZ	Kaikoura	
KLB	Kellerberrin	
KLBO	Killbear Provincial Park	
KLBR	Kellerberrin	
KLC	Kirkland Lake	
KLCH	Kalalua Cone	
KLD	Kalaidasht	
KLDN	Kaloudiana Chania	
KLEP	Klepka	
KLF	Kolari	
KLG	Kalgoorlie	
KLGA	Kalgoorlie	
KLH	Kapapala Ranch	
KLI	Kotabumi	
KLJ	Keetly	
KLK	Kealakekua	
KLKU	Kulkuduk	
KLL	Kalltalsperre	
KLM	Kuala Lumpur	
KLMR	Klimovskoe	
KLMT	Kalamata	
KLN	McKendrick Lake	
KLN4	Kalinino	
KLNB	Kelsey New	
KLNI	Mataram	
KLNJ	Kolanjah	
KLNR	Kaliningrad	
KLO	Kirkland Lake	
KLOF	Kloof	
KLP	Kalpa	
KLR	Kul'dur	
KLR1	Kalamaria	
KLRI	Killari	
KLS	Karlskrona	
KLSI		
KLT	Keltepe	
KLTT	Kalaidasht	
KLU	Klutina	
KLUP	Keelung Port	
KLV	Kalavryta, Achaia	
KLV1	Kalavrita	
KLY	Klyuchi	
KLYT	Kilyos	
KM-	Kramer	KM-CL
KM2	Kermit	
KM3	Kermit	
KM5	Kermit	
KM6	Kermit	
KM9	Kermit	
KMA	Kami	
KMB	Kimbe	
KMBE	Kimbe	
KMBH	Kambah	
KMBL	Kambalda	
KMBO	Kilima Mbogo	
KMC	Kompina	
KM-CL	Kramer	
KMD	Komatsu	
KMD1	Dasu	
KME	Kermit	
KMER	Konya-Meram	
KMF	Kamafusa	
KMG	Kumagaya	
KMGE	Kuromamegawa	
KMGR	Komgaron	
KMH	Puu Kamoamoa	
KMI	Kunming	
KMIS	Kosovska,, Mitrovica	
KMJ	Kume jima	
KMJD	Komatsu	
KMK	Kamakura	
KMKR	Kumukh	
KML	Kamuela	
KMLS	Shenavan	
KMM	Kamigamo	
KMMI	Kalianget	
KMN	Kumano	
KMN1	Usha	
KMNK	Kaminaka	
KMNR	Kamenistaya	
KMO	Kumora	
KMON	Kastamonu	
KMOR	Kings Mountain	
KMP	Kimball Pass	
KMPD	K-Podol'skiy	
KMPI	Kaimana, Papua	
KMPM	Mount Pierce	
KMR	Kremsmunster	
KMRM	Mail Ridge	
KMRS	Kahramanmaras	
KMRZ	Kaimai	
KMS	Karamursel	
KMSA	Khamasin	
KMSC	Kings Mountain, Blacksburg	
KMSG	Kumisi	
KMSI	Cibinong	
KMSK	Kamenskaya	
KMSR	Komsomolskaya	
KMST		
KMT	Kinomoto	
KMT1	Komotini	
KMTA	Khamis Mushayt	
KMTI	Karmit	
KMTU	Khamis Mushayt	KMTA
KMU	Kamikineusu	

Code	Station Name	Other
KMV	Keen Mountain	
KMV1	Kammena Vourla	
KMY	Karmoy	
KMYN	Kameyama	
KMZ	Kasempa	
KN-	Kanab	KN-UT
KNA	Kununurra	
KNAL	Kinaliada	
KNB	Kanab	
KND	Kandira	
KNDC	Almaty	
KNDN	Kennady Lake	
KNDR	Palaiochora Chania	
KNDS	Knez@19ji Dol	
KNEL	Kent Elementary ANSS-SMO	
KNG	Konigsberg	
KNGL	Kangalassy	
KNGQ	Kangiqsujuaq	
KNGR	Kungurtug, Tuva Republic, Russia	
KNGS	Khingansk	
KNH	Kipuka Nene	
KNHH	Kane Nui o Hamo	
KNI	Koyna Nagar	
KNIM	Knight Island	
KNJ	Kinomoto	KMT
KNJD	Kanaihara	
KNK	Knik Glacier	
KNL	Bal¯–kesir	
KNM	Kinmen	
KNMB	Chin-men Tao	
KNN	Kunene	
KNN1	Kunene	
KNO	Knox Ranch	
KNP	Kunneppu	
KNR	Kangurt	
KNR1	Nevis Range	
KNRA	Kununurra	
KNS	Konitsa	
KNS1	Konitsa	
KNT	Kendrikon	
KNTN	Kanton	
KN-UT	Kanab	
KNW	Konawaena	
KNY	Kanayama	
KNZ	Kokohu	
KOA	Kobuan	
KOB	Kobe	
KOC	Kochi	
KOCA	ˆanakkale/Ayvac˜–k-Kocakˆ¶ly	
KOCW	Kopaniny	
KOD	Kodaikanal	
KOE	Koeppel	
KOF	Kofu	
KOFP	Korovin Flat Point	
KOG	Kourou	
KOGH	Koforidua	
KOGS	Kog	
KOH	Kohala	
KOHB	KOHEUNG	
KOHI	KOHIMA	
KOI	Khonsa	
KOID	Koike	
KOJ2	Gongju-si	
KOK	Koryaka	
KOKL	Mount Kliuchef	
KOKV	Korovin Volcano	
KOL	Kolay	
KOLH	KOLHAPUR, MAHARASTRA	
KOLL	Kolacno	
KOLN	Koldanda	
KOLS	Kolonicke sedlo	
KOM	Komaba	
KOMA	Komarou	
KOME	Kolasin	
KOMG	Komaggas	
KOMM	Orleans Mountain	
KOMS	Komsomolabad	
KOMT	Akitakoma	
KON	Kongsberg	KONO
KOND	Kondoa	
KONE	Korovin Northeast	
KONH	Konpirayama	
KONO	Kongsberg	
KONS	Konsvik	
KONT	Konya--Tatoy	
KONW	Korovin Northwest	
KOOC	Abou Kooc	
KOPR	Koprukoy-ERZURUM	
KOPT	Kop Dagi	
KOR	Koror	
KOR2	Korinthos	
KORK	Korkuteli	
KORR	Kora	
KORT	Korkueli	
KORU	Korolevo	
KOS	Kosmodemyansk	
KOSE	Korovin Southeast	
KOSH	Koshkarbay	
KOSI	Kohlern	
KOSK	Kos Island	
KOSW	Kosmos	
KOT	Kottamia	
KOTA	A¯r¯–/Merkez-Kocata¯	
KOTE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
KOTI	Kothi	
KOTS	Kotyrbulak	
KOU	Koumac	
KOUM	Koumaradei	
KOUNC	Koumac, New Caledonia	
KOVA	Elaz¯–¯/Kovanc¯–lar-Tepebag	
KOVU	Salmi	
KOW	Kowen Forest	
KOWA	Kowa	
KOWE	Korovin West	
KOWM	Kowarra	
KOY	Koyama	
KOZ	Kozyrevsk	
KOZ*	Kozyr	KOZR
KOZ2	Kozani	
KOZAM	Lom-Kozlod	
KOZJ	Kozjak Brana	
KOZR	Kozyr	
KOZT	Kozan	
KOZTB	Kozan	
KPA	Kalaupapa	
KPAM	Keepit Dam	
KPB	Port Bizet	
KPC	Khapcheranga	
KPD	Port Douzieme	
KPE	Price	
KPH	Kaena Point	
KPJ	Monastery St. Joachim Osogovski	
KPJI	Karang Pucung	
KPK	Kanaka Peak	
KPKS	Kokpek	
KPL	Plockton	
KPLS	Shiveluch-Kupola	
KPN	Kupiano	
KPNG	Kappang	
KP-NV	Kawich Peak	
KPO	Kapoho	
KPPM	Pickett Peak	
KPR	KrasnayaPolyana	
KPRO	Kipourio	
KPT	Kopyto	
KPTM	Keepit Bedrock	
KR-	Crane	KR-OR
KRA	Krakow	
KRAB	Krabi	
KRAI	Karang Ratu	
KRAM	Krabesse	
KRAR	Krasnoyarsk	
KRB	Kariba Dam	
KRBA	Kerman	
KRBG	Karabiga-Canakkale	
KRBN	Karaburun	
KRBR	Kerman	
KRBS	Karabastau	
KRC	King Ranch	
KRCS	Mys Kronotskii	
KRCT	Kiractepe	
KRCW	Kraslice	
KRD	Kurday	
KRDT	Erzincan	
KRE	Kure	
KRER	Koryakskii	
KRF	Krasnovodsk	
KRG	Kerema	
KRGZ	Buyukada	
KRH	Kirikhan	
KRHZ	Kereru	
KRI	Karoi	
KRI1	kERI	
KRIK	Erzurum-˜spir	
KRIS	Kristallenia	
KRIT	Krib	
KRJ	Kamimuroga	
KRJI	Kerinci	
KRK	Kirkenes	
KRK1	kERKIRA	
KRKI	Karangkates	
KRKL	Karaikal	
KRKM	Rackout Springs	
KRL	Karlsruhe	
KRL1	Karlovasi Samou	
KRLC	Kraliky	
KRM	Kurmenty	
KRMB	Red Mountain	
KRMI	Paran Flat	
KRMM	Red Mountain	
KRMN	Karaman	
KRMR	Karymshinskiy	
KRMZ	Karmrakar	
KRN	Kronoki	
KRNA	Kawich Range	
KRND	KRANIDI	
KRNR	Karanay	
KRO	Koro	
KROM	Kromhout	
KR-OR	Crane	
KROS	Kirovskiy	
KRP	Karapiro	
KRPM	Rodgers	
KRPT	Karpathos	
KRR	Karoi	
KRS	Krasnogorka	
KRS4	Mayak Korsakovskie (Korsakov)	
KRSH	Karshahi	
KRSQ	Kangirsuk	
KRSR	Krestovskiy	
KRT	Keravat	
KRTD	Karatas-Adana	
KRTS	Karatas	
KRTT	Kurtkulagi	
KRTU	Karatu	
KRU	Karasu	
KRUC	Moravsky	
KRUK	Karasu	
KRUS	Krusevo	
KRV	Ganja	
KRVT	Keravat (AS076)	
KRVZ	Karewarewa	
KRW	Karlsruhe West	
KRX	Arik	
KRY	Koidern River	
KRYG	Kurzu	
KRZ	Karuizawa	KAZ
KS01	Wonju Array Site 1	
KS02	Wonju Array Site 2	
KS03	Wonju Array Site 3	
KS04	Wonju Array Site 4	
KS05	Wonju Array Site 5	
KS06	Wonju Array Site 6	
KS07	Wonju Array Site 7	
KS08	Wonju Array Site 8	
KS09	Wonju Array Site 9	
KS10	Wonju Array Site 10	
KS11	Wonju Array Site 11	
KS12	Wonju Array Site 12	
KS13	Wonju Array Site 13	
KS14	Wonju Array Site 14	
KS15	Wonju Array Sites 15 and 31	
KS16	Wonju Array Site 16	
KS17	Wonju Array Site 17	
KS18	Wonju Array Site 18	
KS19	Wonju Array Site 19	
KS32	Wonju Array Site 32	
KS33	Wonju Array Site 33	
KS34	Wonju Array Site 34	
KS35	Wonju Array Site 35	
KS36	Wonju Array Site 36	
KS37	Wonju Array Site 37	
KSA	Ksara	
KSADO	Andong	
KSAND	Andong	
KSANM	Anmyeondo	
KSAR	Wonju Array Beam Reference Point	
KSB	Sheil Bridge	
KSBAR	Backryungdo	
KSBON	Boeun	
KSBRD	Baengnyeongdo	
KSBSA	Busan_acc	
KSBUS	Busan	
KSBUY	BUYEO	
KSCEA	Cheonan	
KSCEJ	CHEONGJU	
KSCHC	Chuncheon	
KSCHI	Jinju	
KSCHJ	Chungju	
KSCHO	Jeonju	
KSCHR	CHANGNYEONG	
KSCHS	CHEONGSONG	
KSCHW	Cheorwon	
KSCHY	BONGHWA	
KSCIG	Chilgok	
KSCM	Snow Cap Mountain	
KSCO	Kaye Shedlock's, Cheyenne Wells	
KSCPN	Chupungnyeong	
KSCPR	CHUPUNGNYEONG	
KSCT	Kent School, Kent	
KSCWO	Cheorwon	
KSD	Kokstad	
KSDAG	Daegu	
KSDAU	Deagu-acc	
KSDDC	Dongducheon	
KSDEI	Deokjeokdo	
KSDGY	Daegwallycong	
KSDI	Kefar Szold	
KSEUS	ULSEONG	
KSGAH	Ganghwa	
KSGBI	Gyogryolbido	
KSGIC	Gimchen	
KSGOS	Gosan	
KSGSG	Gangseo	
KSGUM	GUMI	
KSGUS	GUNSAN	
KSGWJ	Gwangju-acc	
KSGWL	Sabuk	
KSH	Kashi	
KSHAC	HAPCHEON	
KSHAD	HADONG	
KSHAN	Haenam	
KSHJ	Kshj	
KSHT	Keshet	
KSHUK	Heuksando	
KSHWR	Kishtwar	
KSI	Kapahiang	
KSICN	Icheon	
KSIJA	INJE	
KSIMS	Imsil	
KSINC	Incheon	
KSJ	Kashima	
KSJAH	Jangheung	
KSJAS	Jangsu	
KSJDO	Jindo	
KSJEC	Jecheon	
KSJEO	Jeonju	
KSJES	JEONGSEON	
KSJEU	Jeongeup	
KSJIN	Jinju	
KSJJU	Jeju	
KSJMJ	Jumunjin	
KSJUR	Jungrangju	
KSK	Scoval	
KSKAN	Gangneung	
KSKCH	Geochang	
KSKMS	Keumsan	
KSKOH	Goheung	
KSKOJ	Gongju	
KSKUC	Geochang	
KSKUS	Gunsan	
KSKWJ	Gwangju	
KSL	Kastellorizon	
KSLI	Kharsali	
KSM	Kuching	
KSMAN	Muan gun	
KSMAS	Masan	
KSMGY	Mungyeong	
KSMIY	MIRYANG	
KSMM	Slide Mountain	
KSMOK	Mokpo	
KSMOP	Mokpo	
KSMR	Kasumkent	
KSMSA	Geumsan	
KSMUG	Mungyeong	
KSMUS	Musan	
KSMZ	Kasama	
KSN	Kinkasan	
KSNAH	Namhae	
KSNAJ	Naju	
KSNAW	Namwon	
KSNOW	Nowan	
KSO	Kastoria	
KSP	Ksiaz	
KSPA	Keystone College	
KSPHA	Pohang	
KSPM	Sherwood Peak	
KSPOH	Pohang	
KSPOR	Boryeong	
KSPUA	Buan	
KSPYC	Pyeongchang	
KSR	Koster	
KSRS	Korea Array	
KSRV	Kasrt alli	
KSS1	Kassos Island	
KSSAC	SANCHEONG	
KSSAJ	Sangju	
KSSCH	SUNCHEON	
KSSEO	Seoul	
KSSES	Seosan	
KSSGP	Seogwipo	
KSSKC	Sokcho	
KSSOC	Sokcho	
KSSOD	Songwoldong	
KSSSP	Seongsanpo	
KSSWO	Suwon	
KST	Kastek	
KSTBA	Taebaek	
KSTEJ	Daejeon	
KSTL	Kastelli Heraklio	
KSTOH	DONGHAE	
KSTOY	TONGYEONG	
KSU	Koussour	
KSU1	Kansas State University--Konza Prairie	
KSUJ	Kushiro	KUSJ
KSULJ	Uljin	
KSULL	Ulleungdo	
KSULS	Ulsan	
KSUO	Kent State University	
KSUSN	Ulsan	
KSV	Kosov	
KSVO	Keeseville	
KSVV	Ky Son	
KSWAN	Wando	
KSWJU	Wonju	
KSWON	Wonju	
KSWY	Kelly School	
KSXB	Camp Six Broadband	
KSXM	Camp Six	
KSY	Syston	
KSYAP	YANGPYEONG	
KSYCH	Yecheon	
KSYOC	YEONGCHEON	
KSYOD	Yeongdeok	
KSYOJ	YEONGJU	
KSYOS	Yeosu	
KSYOW	Yeongwol	
KSYSU	YEOSU	
KT1	Kermit	
KT2	Kermit	
KT3	Kermit	
KT4	Kermit	
KT5	Kermit	
KT7	Kermit	
KT8	Kermit	
KT9	Kermit	
KTA	Kotzebue	
KTAS	Katas	
KTBS	Karatobe	
KTD	Kalmit	
KTE	Kermit	
KTG	Kap Tobin	
KTG1	Tilbrook Grange	
KTGM	Kuala Trengganu	
KTH	Kantishna Hills	
KTHA	Kythira Island - Agia Moni	
KTHR	Kythira	
KTI	Kastanea	
KTJ	Kamata	
KTJ3	Kamata3	
KTJD	Kamitakara	
KTJJ	Kamata 2	
KTK1	Kautokeino	
KTK2	Kautokeino	
KTK3	Kautokeino	
KTK4	Kautokeino	
KTK5	Kautokeino	
KTK6	Kautokeino	
KTL	Katale	
KTLM	Kings Tableland	
KTM	Katmai	
KTMO	Khatum	
KTMS	Ketmen	
KTMY	Kuala Trengganu	KTGM
KTN	Katrineberg	
KTNK	Katano	
KTNR	Kaitanak	
KTR	Katsuura	
KTRM	Thompson Ridge	
KTRR	Kuturchin	
KTT	Kermit	KIT
KTUT	Trabzon	
KTWE	Kitwe	
KTX	Kermit	
KTZ	Kutztown	
KU1	Kurvinen	
KU2	Taivalkoski	
KU3	Posio	
KU4	Liikasenvaara	
KU5	Karpankyla	
KU6	Riekki	
KU7	Kasma	
KU8	KU8	
KUA	Kurravaara	
KUB	Quba	
KUBB	Kubrat	
KUBR	Kubataba	
KUBS	Kucevo	
KUC	Kucino	
KUDL	Kundal	
KUF	Ufford	
KUG	Kupang	
KUGN	Kugaaruk Camp, Nunavut	
KUH	Kaapuna	
KUJA	Jangpyeong	
KUK	Kukurantumi	
KUKN	Kugluktuk,NWT	
KUL	Kulyab	
KULA	Kula-Manisa	
KULG	Kulusuk, Greenland	
KULLO	Kullorsuaq	
KULM	Kulim	
KULR	Kulu	
KULT	Kultieth River Mountain	
KULU	Kulu	
KUM	Kumamoto	
KUM*	Kumora	KMO
KUMJ	Kumamoto 2	
KUMR	Kumaryk	
KUN	Kunming	KMI
KUP	Kupang	
KUPE	Kupecik-Ladik(Samsun)	
KUPN	Kupiano	
KUPT	Kupang	KUG
KUQ	Kuujjuuaa	
KUR	Kuril'sk	
KUR01	Kurchatov Array Site 1	
KUR02	Kurchatov Array Site 2	
KUR03	Kurchatov Array Site 3	
KUR04	Kurchatov Array Site 4	
KUR05	Kurchatov Array Site 5	
KUR06	Kurchatov Array Site 6	
KUR07	Kurchatov Array Site 7	
KUR08	Kurchatov Array Site 8	
KUR09	Kurchatov Array Site 9	
KUR10	Kurchatov Array Site 10	
KUR11	Kurchatov Array Site 11	
KUR12	Kurchatov Array Site 12	
KUR13	Kurchatov Array Site 13	
KUR14	Kurchatov Array Site 14	
KUR15	Kurchatov Array Site 15	

Code	*Station Name*	*Other*
KUR16	Kurchatov Array Site 16	
KUR17	Kurchatov Array Site 17	
KUR18	Kurchatov Array Site 18	
KUR19	Kurchatov Array Site 19	
KUR20	Kurchatov Array Site 20	
KUR21	Kurchatov Array Site 21	
KURBB	Kurchatov Array	
KURC	Kurucasile-Bartin	
KURK	Kurchatov	
KURS	Kuram	
KUS	Kushiro	
KUSD	Kusadasi-Aydin	
KUSJ	Kushiro	
KUT	Kutsugahara	
KUTA	Kuta	
KUTH	Kutahya	
KUTZ	Kaahu Road	
KUU	Kurty	
KUZ	Kuaotunu	
KUZU	Kuzuini	
KV-	Keg River	KV-AT
KV01	Kirishima Volcano	
KV02	Kamimonzen	
KV03	Oonami West	
KV04	Kurino-dake	
KV05	Oonami East	
KV06	Karakunidake	
KV09	Okamoto-Ura	
KV11	Takachiho West	
KV12	Sinyu	
KV91	Ura	
KVAR	Kislovodsk Array Beam Reference Point	
KV-AT	Keg River	
KVC	Kvetna	
KVG	Kavieng	
KVLA	Kavala	
KVN	Kaiserville	
KVO	Kovokta	
KVR	Kavouri	
KVT	Kavak	
KVTA	Katmai Vly 10 NE	
KVTX	Kingsville	
KWA	Guiyang	GYA
KWAJ	Kwajalein Atoll	
KWE	Weaver Farm	
KWHZ	Kaweka Forest	
KWJ	Kawai	
KWNG	Kwanting	
KWP	Kalwaria Paclawska	
KWSI	Makuyuni	
KWT	Kawatabi	
KWZ	Kawazu	
KYA	Kyakhta	
KYB	Urasar	
KYJ	Kuroyon	
KYK	Kayak Island	
KYL	Kyle	
KYLA	Kyela	
KYM	Kumisi	
KYM1	Kymi	
KYMI	Kymi, Euboea Island, Greece	
KYO	Kyoto	
KYP	Key Point	
KYP2	Kyparissia	
KYR	Kayrak	
KYS	Kiyosumi	
KYTD	Kurayoshi	
KYTH	Kithira	
KYU	Kyusyur	
KYZD	Kyzyldzhar	
KZA	Kyzart	
KZAD	Kyzyl-Adyr	
KZAG	Qyzylaghash	
KZAKZ	Kzylasker	
KZI	Kaziranga	
KZIL	AFYON_Kizioren	
KZIT	Kziot	
KZJ	Kashiwa-zaki	
KZK	Kashiwa-zaki	
KZL	Kozel'skiy	
KZLR	Kyzyl	
KZM	Kalamazoo	
KZN	Kozani	
KZR	Kazreti	
KZRT	Kazreti	
KZT	Kanzaki	
KZV	Kizimen	
KZW	Kaizawa	
L02A	Cave Junction	
L02D	Cave Junction, OR	
L02E	Cave Junction	
L04A	Klamath Falls	
L04D	Klamath Falls	
L05A	Lakeview	
L07A	Adell	
L08A	Fields	
L09A	Wilkinson Ranch, McDermitt	
L10A	Juniper Basin Ranch, Riddle	
L11A	Cat Creek Ranch, Riddle	
L12A	House Creek Ranch, Rogerson	
L13A	Double Diamond Ranch, Oakley	
L14A	Malta	
L15A	Malad City	
L16A	Fish Haven	
L17A	Cokeville	
L18A	Fontenelle, Green River	
L19A	Farson	
L20A	Wamsutter	
L21A	Rawlins	
L22A	Ellis Ranch, Medicine Bow	
L23A	Garrett	
L24A	Wheatland	
L25A	Engebretsen Ranch, Morrill	
L26A	Underwood Farm, Alliance	
L27A	T5 Ranch, Ellsworth	
L28A	Connealy Angus Ranch, Whitman	
L29A	Maesberg Ranch, Thedford	
L30A	Spencer Herefords Ranch, Brewster	
L31A	Butterfield Farm, Chambers	
L32A	Elgin	
L33A	Hoskins	
L34A	Svendsen Farm, Lyons	
L35A	Bielow Farm, Ricketts	
L36A	Harm Buss Farm, Glidden	
L37A	Phoenix Point, Boone	
L38A	Oak Wood Farm, Albion	
L39A	Vinton	
L40A	Anamosa	
L41A	Preston	
L42A	Oliver, Polo	
L43A	Garden Prairie	
L44A	Lake County Forest Preserve, Grayslake	
L46A	Eue Claire	
L47A	Sherwood	
L48A	N Adams	
L49A	Milan	
L50A	Kingsville	
L53A	Girard	
L54A	Sinclairville	
L55A	Hinsdale	
L56A	Greenwood	
L57A	Andrews Acres Farm, Gillet	
L58A	Harry Jones Memorial, Binghamton	
L59A	Walton	
L60A	Shokan	
L61A	Hillsdale 1, Hillsdale	
L61B	Northampton	
L62A	Suffield	
L63A	North Scituate	
L64A	Middleborough	
L65A	Cape Cod National Seashore	
L6KY	Lock 6	
LA-	Lafayette	LA-GA
LA0	Lasa Array	LAO
LAA	Little America	
LAB	Little Aspen Butte	
LABF	Labassere	
LABG	Labe	
LABN	Labinsk	
LAC	Landers	
LACH	Col Las Americas	
LACI	Lac	
LACL	Lacq	
LACR	Lac	
LACU	La Cuchilla	
LACW	Lazy	
LAD	Ladron Mountain	
LADA	La Danta	
LADK	Ladik-KONYA	
LADO	San Nicola dell'Alto	
LAE	Lae	
LAEL	Laela	
LAF	Lafayette	
LAFA	Gebze-Kocaeli	
LAG	Langila	
LA-GA	Lafayette	
LAGB	Langenfeld Grube Bendisberg	
LAGL	Lagor	
LAGM	Oaxaca	
LAGR	Lagunnoye	
LAGU	Laguneta	
LAGV	Lagunillas	
LAH	Lahore	
LAIN	Lailor River, Nunavut	
LAJ	Bijagual	
LAJA	Laja	
LAJE	UHE Lajeado	
LAJO	La Joya	
LAK	Lawrence	
LAKA	Lakka	
LAKD	Lakadia	
LAL	Leola	
LALZ	Loma Alta	
LAMM	Antelope Mountain	
LAMP	Lampang	
LAN	Lanzhou	
LANC	Lancaster	
LANE	Lane BPA Site-SMO	
LANF	Langenberg	
LANH	Laconia	
LANS	Liptovska Anna	
LANT	Antrodoco	
LANU	Lannavaara	
LAO	LASA Array	
LAP	La Paz	
LAPC	Finca la Perla	
LAPE	La Pedrera	
LAQ	La Grande	
LAQC	La Quinta	
LAR	Laramie	
LAR1	LAR	
LAR4	Larissa	
LAR5	Larissa	
LARC	La Roca	
LARD	Lac Aux requins	
LARF	Larrau	
LARI	Lau Rambong	
LARO	La Roca	
LAS	Mount Lassen	
LASA	Lasa Array	LAO
LASF	Ste Croix	
LASI	Langsa, Aceh	
LASL	Noumea	
LASM	Arnica Sink	
LAST	Lasithi	
LAT	Lae	
LATB	Latina	
LATE	Laterza	
LATQ	La Tuque	
LATR	Latur	
LAU	La Urbina	
LAUCH	Lauchernalp	
LAUG	Laupendahl	
LAV	Laguna Verde	
LAV2	Lava2-Rev Volc	
LAV3	Lava3-Reventador	
LAV4	Lava4-Reventador	
LAV9	Lanuvio	
LAVA	Lava Cap Winery, Placerville	
LAVC	Lavic	
LAVN	Lang Chanh	
LAVR	Lavrentia	
LAW	Lawrence	
LAWE	Loch Awe, Argyll & Bute	
LAWT	Lawton Elementary School	
LAX	Bahia de Los Angeles	
LAY	Lan-yu	
LAZ	Ladron	
LAZE	Lhatse, Xizang Zizhiqu	
LAZM	Lazaro Cardenas	
LB-	Lebanon	LB-NH
LB1	LASA B Ring	
LB2	LASA B Ring	
LB3	LASA B Ring	
LB4	LASA B Ring	
LBB	Lubumbashi	
LBC	Lubudi	
LBCM	Butte Creek Rim	
LBCW	Luby	
LBF	Les Buteaux	
LBFI	Labuhan Bajo, Sumatra	
LBFM	Black Fox Mountain	
LBG	Lerchenberg	
LBGA	Luboga	
LBGK	Lebyazhka	
LBGM	Big Gulch	
LBH	Morecambe B102	
LBKM	Bonanza King	
LBL	Lubilhac	
LBM	Little Butte	
LBMI	Labuha	
LBMM	Bass Mountain	
LBNH	Lisbon	
LB-NH	Lebanon	
LBNS	Jabal Laban	
LBO	Bowland	
LBOS		
LBP	Lucky Boy Pass	
LBPH	Los Banos	
LBPM	Beegum Peak	
LBQ	La Grande	
LBRS	Las Brisas	
LBSA	Labasa	
LBT	Labete	
LBTB	Lobatse	
LBTL	Lobethal	
LBUT	Lower Browns Hole	
LBWR	Ladybower, Peak District	
LBXM	Letterbox	
LBZ	Lake Benmore	
LC-	Las Cruces	LC-NM
LC01	Cunco	
LC1	LASA C Ring	
LC2	LASA C Ring	
LC3	LASA C Ring	
LC4	LASA C Ring	
LCA	Log Cabin	
LCAL	Lambert Chapel	
LCAM	Castella	
LCAR	Lake Charles	
LCAV	Cave	
LCBC	Los cˆ‡rdobas, Cordoba	
LCBS	La Ceiba	
LCC	Lanzhou	
LCCB	Little Cholame Creek	
LCCH	Las Cruces	
LCCM	Lewis and Clark Caverns	
LCCO	Lakeland CC	
LCCO2	Lakeland CC 2, Kirtland	
LCCY	Blossom Village, Little Cayman	
LCFM	Crescent Cliff	
LCG	Leon Cerro Gordo	
LCGC	La Cienega, Culver City	
LCH	Last Change Range	
LCH0	Los Chiles	
LCHF	La Chataigneraie	
LCI	Lecce	
LCK	Crook	
LCL	Rancho Los Cerritos	
LCM	Los Angeles Museum of Natural History	
LCMM	Colby Mountain	
LCMT	Little Creek Mountain	
LCN	Lincoln	
LCNA	Lacona	
LCNC	Loup City	
LCND	La Caˆ–ada	
LCNE	Loup City	
LC-NM	Las Cruces	
LCNT	Contigliano	
LCO	Las Campanas	
LCP	Cassop	
LCQ	La Grande	
LCR	La Lucha	
LCR2	La Lucha 2	
LCRK	Leigh Creek	
LCSM	College of the Siskiyous	
LCV	La Cueva	
LCVN	Lai Chau	
LCW	Lucas Creek	
LCY	Lacayo	
LD-	Lucedale	LD-MS
LD1	LASA D Ring	
LD2	LASA D Ring	
LD2MS	Lucedale	
LD3	LASA D Ring	
LD3MS	Lucedale	
LD4	LASA D Ring	
LDBL	Lucq-de-Bearn	
LDBM	Digger Butte	
LDBN	Lake De Bois	
LDF	La Druitiere	
LDFC	Landfair	
LDG	Lodge	
LDGN	Lac de Gras North	
LDIO	Lac des Isle Mine	
LDJ	Lady	
LDLD	Lac de Lave	
LDM	Libby Dam	
LDMO	Linda	
LD-MS	Lucedale	
LDN	London (Ont)	
LDQ	La Grande	
LDR	Lodi Road	
LDS	Leeds	
LDSQ	Shawville	
LDU	Leeds University	
LDV	Leadville	
LDVG	Clark Hill Reservoir	
LE-	Lewisburg	LE-TN
LE1	LASA E Ring	
LE2	LASA E Ring	
LE3	LASA E Ring	
LE4	LASA E Ring	
LEA	Lead	
LEAH	Tarraleah	
LECO	Lake Erie College	
LED	Lead Mountain	
LEE	Leeds	
LEF	Lefka	
LEF2	Lefkas	
LEG	Legaspi	
LEGH	Legon	
LEGS	Legarje	
LEHL	Lehliu	
LEI	Leipzig	
LEIB1	TS Leibis	
LEK	Lexington	
LEM	Lembang	
LEME	Ethiopia-Afar Geoscientific Lithospheric Experiment	
LEN	Leninakan	
LENE	LENE	
LENM	Lemitar	
LEO	Leoncito	
LEO1	Leonidio	
LEOC	Leona Valley	
LEOD	Capriano del Colle	
LEOM	Leova	
LEON	Leon	
LEOT	Leota Junior High School	
LEP	Lephalale	
LEPF	PUYLOUBIER	
LER	Lerida	
LERS	Lernavan	
LERZ	Lernakert	
LES	Lesozavodsk	
LESF	Lescure	
LE-TN	Lewisburg	
LEV	Loma de el Viento	
LEVU	Levan	
LEWI	Lewis, Hebrides	
LEX	Lexington	
LF-	La Follette	LF-TN
LF1	LASA F Ring	
LF2	LASA F Ring	
LF3	LASA F Ring	
LF4	LASA F Ring	
LFA	Lagoa do Fogo	
LFC	Lale Fork Canyon	
LFF	La Frestale	
LFK	Lefkose	
LFM	Lubrecht Forest	
LFRS	El Faro	
LF-TN	La Follette	
LFU	La Fuente	
LG-	Long Valley	LG-AZ
LG4Q	La Grande 4	
LGA	Laguna Mountains	
LGAR	La Grange	
LGAT	Lohaghat	
LG-AZ	Long Valley	
LGBM	Gray Butte	
LGC	Lakewood Golf Course	
LGCB	Laguna Cube	
LGD	Lagodekhi	
LGDO	Mt Longido	
LGG	Legon	
LGHD	Ghdames	
LGHM	Grouse Hill	
LGKY	Lock 6	L6KY
LGM	Little Green Mountain	
LGMM	Garner Mountain	
LGN	Lagunillas	
LGNH	Le@15oga@12ne	
LGNR	Loginova	
LGOR	La Grande	
LGP	Legaspi	
LGPLA	Lodgepole	
LGPM	Granite Peak	
LGQ	La Grande	
LGR	Logrono	
LGRM	Grenada	
LGS3	Luogosano	
LGSN	Lac de Gras South	
LGT	Lagarterita	
LGTI	Lohaghat	
LGTM	Lightning Creek	
LGUZ	Los Guarumos	
LHA	Lhasa	
LHAH	Las Aradas	
LHBM	Lucas Heights	
LHC	Lakehead University	
LHCM	Hat Creek	
LHD	Little Hoodo Mountain	
LHE	Lhers	
LHEM	Herd Peak	
LHG	La Concha	
LHHM	High Hole Crater	
LHI	Lord Howe Island	
LHIS	Lihir Island	
LHKM	Mount Harkness	
LHM	Lake Helena	
LHMI	Lhok Sumawe	
LHMM	Hirz Mountain	
LHN	Lillehammer	
LHO	Holmfirth	
LHOM	Hoadley Peaks	
LHS	Liberty Hill	
LHSI	Lahat	
LHU	Lake Hughes	
LHUT	Little Humpy Peak	
LHV	Little Huntoon Valley	
LI-	Liberty	LI-NV
LIA	Limnos Island	
LIB	Langara Island	
LIBD	Limburg	
LIBE	Liberia	
LIBM	Chiapas	
LIC	Lamto	
LICH	Lichinga	
LICM	Lichinga	
LICR	Limon	
LID	Liddow	
LIENZ	Kamor/St.Gall Rh.T	
LIFNC	LIFOU	
LIJA	Lijar	
LIK	San Giovanni Incarico	
LIKS	Likavka	
LIL	Lille	

Code	Station Name	Other
LILH	Lima (NY)	
LILI	Casa Papˆ¡s Liliana Troncoso	
LILM	Lilongwe	
LILU	Lilltraesk	
LIM	Lima	
LIM1	Limonal	
LIME	Lime	
LIMH	Limerick	
LIMM	Veracruz	
LIN	Lincoln	
LINO	Lindsay	
LINV	Loch Inver, Assynt	
LI-NV	Liberty	
LIO	Limon	
LIO3	Lioni	
LIOB	Emei	
LIP	Lipkovo	
LIPC	Lipinka	
LIRI	LIRI	
LIRZ	Lichensteins Rd	
LIS	Lisbon	
LISJ	El Lisan	
LIT	Litokhoron	
LITE	Lita	
LITE1	Lita	
LITH	Al Lith	
LITR	Litchfield	
LIV	Leghorn	
LIY	Limay	
LJB	Lovejoy Buttes	
LJBD	Adjabya	
LJC	La Jolla	
LJDO	Lageado - TO	
LJFR	Jufra	
LJI	Lemhi Junction	
LJO	Ljotipollur	
LJS	Tabasco	
LJU	Ljubljana	
LJX	Las Lajas	
LJY	La Joya	
LKB	Lokbatan	
LKBD	Leukerbad	
LKBD2	Leukerbad 2	
LKC	Lake Chabot	
LKD	Levkas	
LKD2	Lefkada island	
LKFR	Kufra	
LKG	Breislack	
LKGA	Lookout Mountain	
LKGR	Lake Grace	
LKL	Kirkby Lonsdale	
LKLB	Kalborn	
LKO	Korhogo	
LKP	Lekhapani	
LKR	Lokris	
LKRN	Lenkeran, Azerbaijan	
LKVW	Lakeview	
LKW	Lake Wisdom	
LKWY	Lake	
LL-	Laurel	LL-MS
LL01	San Ignacio de Huinay	
LL02	Futaleuf""	
LLA	Llanada	
LLAC	Llano	
LLAH	Lualailua	
LLAV	El Llanito	
LLC	La Lucha Farm	
LLCH	Llolleo	
LLD	Lille Linde	
LLGN	La Laguna	
LLI	Lipari	
LLIC	Llico	
LLJ	Guerrero	
LLKY	Land-Between-the-Lakes	
LLL	Lillooet	
LLLB	Lillooet	
LL-MS	Laurel	
LLO	Longridge	
LLOA	Lloa	
LLP	Lapu-Lapu	
LLRI	Little Lost River	
LLS	Linth-Limmern	
LLW	Llanuwychllyn	
LLY	Lytham Saint Anne's	
LM-	Lake Mead	LM-NV
LM2	Lima (Magdalena)	
LMA	Le Marinel	
LMBQ	La Malbaie	
LMC	Lamocks	
LMCR	Lookout Mountain	
LMD	Lutirano	
LMD1	Lamerd	
LMDM	Medicine Lake	
LMEL	Las Melosas	
LMEM	Manzanita Entrance	
LMF	Le Mans	
LMG	Lamington	
LMGC	Las Mercedes	
LMHM	Little Mount Hoffman	
LMI	Millom	
LMK	Market Rasen	
LML	Lae--Mount Lunaman	
LMM	Maputo	
LMN	Caledonia Mountain	
LMN1	MIRINA LIMNOU	
LM-NV	Lake Mead	
LMO	Lookout Mountain Observatory	
LMP	Lamap	
LMPM	Military Pass	
LMQ	La Malbaie	
LMR	La Mourre	
LMS	Lookout Mountain Observatory	
LMS2	Laimos Florinas	
LMSR	Misrath	
LMT	Lemonthyme	
LMTN	Little Mountain	
LMTZ	Lermontov	
LMU	Lake Mountain	
LMUT	Lake Mountain	
LMW	Ladd Mountain	
LMX	La Mesa Andrade	
LMZ	Lake Moeraki	
LMZM	Manzanita Lake	
LN9	Lone Pine	
LNA	Lyangar	
LNAS	Los Alamitos	
LNB	Las Nubes	
LNC	Lunacharskoye	
LNCH	Linares	
LNCR	Limon	
LND	London (Ont)	
LNF	Linfen	
LNG	Luning	
LNGQ	Gaz Metro	
LNIG	Linares	
LNK	Lankaran	
LNKU	Linkoeping	
LNM	Leon	
LN-MA	Lewistown	
LNN	Saint Petersburg	
LNO	Leonard	
LNO2	Leonard	
LNO3	Leonard	
LNOR	Lincton Mountain	
LNR	Lonorore	
LNS	Lanslevillard	
LNSK	Leninskoye	
LNSM	East Lansing	
LNSS	Leonessa	
LNV	Longovilo	
LNVN	Lang Ngam	
LNX	Lenox	
LNXT	Lenox	
LNY01	LNY01	
LNY02	LNY02	
LNY03	LNY03	
LNY04	LNY04	
LNY05	LNY05	
LNY06	LNY06	
LNY07	LNY07	
LNY08	LNY08	
LNY09	LNY09	
LNY10	LNY10	
LNY11	LNY11	
LNY12	LNY12	
LNY13	LNY13	
LNY14	LNY14	
LNY15	LNY15	
LNY16	LNY16	
LNY17	LNY17	
LO-	Lovelock	LO-NV
LO2	Pahute Mesa	
LOA	Los Alamos	
LOC	Lincoln School	
LOCW	Locke Island	
LOD	Lodumlu	
LODK	Lodwar	
LOE	Loei	
LOEI	Loei	
LOES	Loerrach-Stetten	
LOEW		
LOF	Lofoten	
LOG	Logan	
LOGN	Logan Glacier	
LOH	Wallersheim-Loch	
LOHW	Long Hollow	
LOJ1	Universidad t"cnica Particular de Loja	
LOK	Lockwood Valley	
LOKY	Lockhart	
LOLA	Los Lagos	
LOM	Lome	
LOMA	San Marcos	
LOMF	Lomont	
LOMO	Loma en Medio	
LOMS	Lomita	
LON	Longmire	
LO-NV	Lovelock	
LONY	Lake Ozonia	
LOP	Lookout Peak	
LOPT	Lopu atari	
LOR	Lormes	
LORE	San Lorenzo	
LORF	La Fuente	
LORO	Los Roques	
LORV	San Lorenzo	
LOS	Limnos	
LOSM	Lostock Dam	
LOSS	Makongolosi	
LOSU	Losuia	
LOT	Lotru	
LOU	Louis Bay	
LOUT	Loutraki	
LOY	Loyalton	
LOZ	Lake Ozonia	
LOZB	Loznitsa	
LP-	La Pryor	LP-TX
LPA	La Plata	
LPAR	Lepanto	
LPAZ	La Paz	
LPB	La Paz	
LPC	La Cumbre Peak	
LPD	Lampedusa	
LPDG	Lampedusa Capo Grecale	
LPDM	Pondosa	
LPEF	Le Peyrat	
LPEL	Lama dei Peligni	
LPF	Le Pertre	
LPG	La Plagne	
LPH	Laupahoehoe	
LPI	Lipari	
LPIG	La Paz	
LPK	Lapseki	
LPL	La Plagne	
LPM	Los Pinos Mountain	
LPMF	Morne Lapointe	
LPO	Le Pouchou	
LPQ	La Pocatiere	
LPR	La Peregrina	
LPS	La Palma	
LPSR	Galich'ya Gora	
LPT	Lampang	
LP-TX	La Pryor	
LPW	Lampeter	
LPX	La Paz	
LPZ	San Calixto	
LQA	La Quiaca	
LQP	Lukban	
LQQ	La Grande 4	
LQT	Los Queltehues	
LR9	Liard River	
LRA	Little Rock	
LRAL	Lakeview Retreat	
LRC	Lone Oak Road	
LRCG	Laurel Creek	
LRCZ	Leaning Rock	
LRDF	Laroque-de-Fa	
LRDM	Redding Peak	
LRDO	Lorado	
LREZ	Lake Rotokare	
LRG	Lorgues	
LRI	Big Lost River	
LRK	Lerik	
LRKT	Look Rock	
LRM	Limekiln Ridge	
LRMC	Laurel Mtn Radio Fac, Ridgecrest	
LRN	Richmond	
LRNS	Lernantsk	
LRO	Larroussi	
LRP	Arpino	
LRQ	La Grande 3	
LRQ1	La Romaine 2 Dam	
LRQ2	La Romaine 2 Dam Dyke F2,	
LRR	Leresti	
LRRC	Littlerock Reservoir	
LRS	Lares	
LRSO	Larissa Observatory	
LRV	Little Rabbit Valley	
LRVF	ch"cteau la Rivi"ore	
LRW	Lerwick	
LRWS	Lerwick	
LRYF	La Roche-sur-Yon	
LS-	Lisbon (USA)	LS-NH
LSA	Lhasa	
LSCH	La Serena	
LSCT	Lakeside	
LSCZ	Lilico Spur	
LSD	Lago del Serru	
LSDC	Los Osos Digital	
LSF	La Souterraine	
LSH	Leshukonskoye	
LSHF	Shwairf	
LSHM	Sage Hen Hill	
LSI	Little Sitkin Island	
LSI01	Los Alamos Infrasonic Array Site 1	LSIAR
LSI02	Los Alamos Infrasonic Array Site 2	
LSI03	Los Alamos Infrasonic Array Site 3	
LSI04	Los Alamos Infrasonic Array Site 4	
LSIAR	Los Alamos Infrasonic Array Beam Reference Point	
LSK	Leskovik	
LSLM	South Lassen	
LSM	Little Skull Mountain	
LSM0	Laboratory Soil Mechanics	
LSM1	Laboratory Soil Mechanics	
LSN	Little Skull Mountain	
LSN4	Lesnoe	
LS-NH	Lisbon	
LSNR	Lesken	
LSNW	Little Sitkin NW	
LSP	Las Mesas	
LSP2	Las Mesas	
LSPA	Little Sitkin PP	
LSPF	Lesparou	
LSQ1	Lac Sinclair, Quebec	
LSQQ	Lebel-sur-Quevillon	
LSR	Lussari	
LSRT	Sirt	
LSSA	Little Sitkin S'e	
LSSE	Little Sitkin SE	
LST	Lone Star	
LSTR	Listvyanka	
LSTV	Lastovo	
LSU	Lake Shores	
LSU1	Parcperdue Array	
LSU2	Parcperdue Array	
LSU3	Parcperdue Array	
LSU4	Parcperdue Array	
LSU5	Parcperdue Array	
LSUT	Lucky Star	
LSVB	Lang Son station	
LSW	Landslide	
LSZ	Lusaka	
LT-	Lewistown	LT-PA
LT1	Stevens Creek	SEC
LT11	Empire Grade Rd	EGR
LT12	Eureka Canyon	EUC
LT13	Angel Island	AGC
LT15	Bear Creek Road	
LT16	Bolinger Road	BGC
LT17	Morgan Territory	MTC
LT18	Palomares Rd	PLC
LT2	St Joseph	SJH
LT3	Portola State Park	
LT4	Stanford	SFT
LT5	La Honda	
LT6	Woodside	WDS
LT7	Menlo Park	MOB
LT8	Coyote Hills	CYH
LT9	San Andreas Lake	
LTA	Leoben	
LTB3	Lajitas B3	TX04
LTBQ	Tobruq	
LTC	Little Chuckwalla Mountains	
LTCM	Tuscan Springs	
LTG	Los Tablones	
LTGO	Lithgow	
LTH	Lepaterique	
LTHS	Al Lith	
LTI	Latouche	
LTIM	Timbered Crater	
LTK	Loutraki	
LTL	Livingston	
LTM	Little Maria Mountains	
LTMT	Little Table Mountain	
LTN	Lennox	
LT-PA	Lewistown	
LTQ	La Grande	
LTR	Lone Tree Road	
LTRA	Loutraki	
LTRP	Tripoli	
LTRR		
LTRZ	Laterza	
LTT	Louis Trichardt	
LTTV	Tivoli	
LTU	Little Mountain	
LTVH	L"tav"rtes, Hungary	
LTW	Los Trancos Woods	
LTX	Lajitas	
LTY	Liberty	
LTZ	Lake Taylor	
LUA	Luanda	
LUB	Lubbock	
LUBP	Lubang	
LUBY	Luby	
LUCF	Luceram	
LUCR		
LUEV	Luepa	
LUG	Luganville	
LUJL	Ujela	
LUK		
LUKA1	Lukmanier-Pass	
LUL	Lundy Lake	
LUMB	Murzuk	
LUMP	Lumpola	
LU-MS	Lumberton	
LUN	Lund	
LUNA	Lae	
LUNU	Lund	
LUPA	Lehigh University	
LUPN	Lupin Mine	
LURI	Luri	
LUS	Lusaka	
LUTC		
LUV	Laichau	
LUWI	Luwuk	
LUX	Luxembourg	
LUZB	Luzhba, Kemerovskaya Oblast', Russia	
LV-	Liddieville	LV-LA
LV9	Isola Levanzo	LVI
LVA	Lava Point	
LVAR	Leachville	
LVC	Limon Verde	
LVG	La Victoria	
LVGX	La Villita	
LVI	Isola Levanzo	
LVIA	Vianden	
LVIG	Laguna Verde	
LVK	Lovelock	
LV-LA	Liddieville	
LVMM	Veracruz	
LVN	Las Vegas	
LVNJ	Long Valley	
LVP	Lakeview Peak	
LVR	Liverpool	
LVRI	Lost Valley Reservoir	
LVS	La Villa de Los Santos	
LVU	Levan Peak	
LVV	L'vov	
LVVM	Laguna Verde	
LVW	Las Vegas	
LVY	Levy	
LVZ	Lovozero	
LW-	Lake Wenatchee	LW-WA
LWA	Lower Mag Wash	
LWH	Whinny Nab	
LWI	Lwiro	
LWLI	Liwa	
LWN	416	
LW-WA	Lake Wenatchee	
LXQ	La Grande 3	
LXR	Lexington Reservoir	
LXR1	Lixouri, Cephalonia isl., Greece	
LYES	Lernapar	
LYJJ	Jianjiangzhen	
LYLS		
LYMT	Lyon Mountain	
LYNC	Lynnwood City Hall ANSS-SMO	
LYNN	Rosslynne Res.	
LYP	Liyang	
LYUB	Lan-yu	
LYW	Lyman	
LY-WA	Lynden	
LZ-	La Paz	LZ-BV
LZB	Mount Lazard	
LZ-BV	La Paz	
LZG	Guadaloupe-1	
LZH	Lanzhou	
LZLA	Zalla	
LZR	Lazarev	
M01C	Crescent City	
M02C	Callahan	
M03C	McCloud	
M04C	Macdoel	
M05C	Lookout	
M06C	Likely Place Golf, Likely	
M07A	Soldier Meadows	
M08A	Happy Creek Ranch, Winnemucca	
M09A	Marrel Ranch, Paradise Valley	
M10A	I.L. Ranch, Tuscarro	
M11A	Holland Ranch, North Fork	
M12	M12	
M12A	Wells	
M13A	Montello	
M14A	Sheep Mountain BLM, Rosette	
M15A	Larsen Ranch, Promontory	
M16A	Huntsville	
M17A	Scullys Gap (BLM), Evanston	
M18A	Lyman	
M19A	Rock Springs	
M20A	Sweetwater, Wamsutter	
M21A	Separation Peak, Rawlins	
M22A	Cedar Creek Ranch, Saratoga	
M23A	Laramie	
M24A	Cheyenne	
M25A	Palm-Egli Farm, Albin	
M26A	McRoberts Ranch, Bridgeport	
M27A	Reverse DX Ranch, Oshkosh	
M28A	Bar X Bar Ranch, Keystone	
M29A	Burnside Ranch, Stapleton	
M30A	Dale-Ortello Valley, Anselmo	
M31A	Lambtecht Ranch, Loup City	
M33A	Taylor Creek Farms,	

	Clarkson	
M34A	Aspy Farms, Fremont	
M35A	Neola	
M36A	Felix, Anita	
M37A	Trindle Farm, Earlham	
M38A	Pleasantville	
M39A	Webster	
M40A	Post Highland Seismo, Ainsworth	
M41A	Milan	
M42A	Sheffield	
M43A	Waltham Township, Utica	
M44A	Midewin, Midewin Nat. Tallgrass Prairie	
M45A	Boilermakers Shaker, Crown Point	
M46A	Old House Field, Plymouth	
M47A	Cromwell	
M48A	Edgerton	
M49A	Liberty Center	
M50A	Fremont	
M51A	Elyria	
M52A	Chesterland	
M53A	WI Miller and Sons, Farmdale	
M54A	Oil Creek State Park, Oil City	
M55A	Ridgway	
M56A	Emporium	
M57A	Sunshine Farm, Cogan Station	
M58A	Price's Panorama, Muncy Valley	
M59A	Waymart	
M60A	Port Jervis	
M61A	Granite Springs	
M62A	Hamden	
M63A	Gales Ferry	
M64A	Tiverton	
M65A	Busby, Falmouth	
M66A	Nantucket	
MA1	Montasola	MNS
MA2	Magadan	
MA9	Marino	
MAA	Manantiales	
MAB1	Monte Acero	
MABC	Malibu	
MABD	Mabed	
MABI	Malga Bissina	
MAC	Mark West Springs	
MACA	Manacapuru-AM	
MACC	Macarena, Meta	
MACE	Macas	
MACH	Maria Elena	
MACI	Morro de la Arena	
MACK	Trabzon	
MACM	Macedon	
MACO	Marietta College	
MAD	Madang	
MADF	Madeleine	
MADG	Magdalen Islands	
MADN	Villa Maderas	
MADO	Madoc	
MADS	Madsous	
MAE	Maebashi	
MAEJ	Maebashi 2	
MAF	Mazirat	
MAFI	Mafinga	
MAG	Magadan	
MAG1	Magdalena	
MAGA	Magasa	
MAGC	SCE Magundon Plant	
MAGD	Magdalena	
MAGG	Maguga Dam	
MAGK	Magadi	
MAGL	Barre de l'ile, St louis, Marie Galante	
MAGT	Magosa	
MAH	Mahableshwar	
MAHB	Mahabad	
MAHO	Mahon	
MAHZ	Mahia	
MAI	Maizuru	
MAIG	Mazatlaan	
MAIM	Mastiano	
MAIO	Mashhad (SRO)	
MAIT	Maitri	
MAJ	Maron	
MAJ01	S˜£o Jo˜£o Batista-SC	
MAJI	Maji Moto Rd	
MAJO	Matsushiro	
MAK	Makhachkala	
MAKA	Makarska	
MAKK	Maki	
MAKM	Makambako	
MAKR	Makrakomi, Fthiotida	
MAKS	Makuyuni S	
MAKT	Makukawa	
MAKU	Maku	
MAKZ	Makanchi	
MAL	Malaga	
MALA	Malamata, Dorida, Central Greece	
MALB	Monte Alegre	
MALC	Bahia Malaga	
MALG	Malagash, Nova Scotia	
MALI	All	
MALJ	Lake Magadi	
MALK	Mahakanadarawa	
MALM	Malindi	
MALO	McAlpine Lake	
MALT	Malatya	
MAM	Mambajao	
MAMC	Mammari	
MAME	Mamelis	
MAMG	Mamou	
MAMI	Mei-Ami	
MAMO	Mamousia	
MAN	Manila	
MAN01	Angra dos Reis-RJ	
MAN1	Correggio Man	
MAN2	Manyara 2	
MANA	Manning	
MAND	Mandvi	
MANI	Manica	
MANM	Veracruz	
MANR	Mangalia	
MANS	Anshas	
MANT	Manisa	
MANU	Manus Island	
MANV	Manamana	
MANY	Mount Airy	
MANYT	Manyoni	
MANZ	Manzenberg	
MAO	Monte Argentario	
MAO1	Mao	
MAOD	Malaho	
MAON	Monte Argentario	
MAP	Mactan	
MAPC	Malpelo	
MAPI	Mapinhane	
MAPV	Macapo	
MAR	Marseilles	
MAR2	Marsite Station 2 Hoskoy	
MAR3	Marsite Station Guzelkoy	
MAR4	Marsite Station 4	
MAR5	Marsite Station Ucmakdere	
MAR6	Marsite Station Kirazli	
MAR7	Marsite Station Mursalli	
MAR8	Marsite Station Cinarli Koyu	
MAR9	Marsite Station Marmara Adasi	
MARA	Maracay	
MARB	Ma'rib	
MARC	Maricopa	
MARD	Mardin	
MARE	Marsico Vetere	
MARG	Lake Margaret	
MARH	Ras Al Marh	
MARI	Martimbang	
MARJ	Al Marj	
MARK	Kumluca	
MARL	Marlboro	
MARM	Chiapas	
MARMO	Marston	
MARN	Marana (Italy)	
MARNC	Mare, Loyalty Islands, New Caledonia	
MARP	Paez Belalcazar	
MART	Mareth	
MARV	Martvili	
MARY	Rancho Maria	
MARYW	Marymoor Park	
MARZ	Manawahe	
MAS	Mason Butte	
MASB	Masset	
MASBT	Mashibuluo	
MASC	Masc	
MASH	Mash'abbe Sade	
MASI	Maura Aman, Bengkulu	
MASJ	El Maslubiya	
MASN	Masaya	
MASO	Asolo, Italy	
MASR	Amasra-Bartin	
MASS	Massafra	
MASU	Masugnsbyn	
MAT	Matsushiro	
MAT0	Matsushiro Array Site 0	
MAT1	Matruh	
MATB	Ma-tsu	
MATC	Matruh	
MATE	Matera	
MATF	Mathat	
MATH	Matsumotoyama	
MATI	Mati	
MATL	Matarih	
MATM	Matthews	
MATN	Matagalpa	
MATP	Matopo	
MATQ	Matagami	
MATS	Near Sharaf	
MATTE	Schuetzenmatte (BS)	
MAU	Matua	
MAUBO	Mauborget	
MAUI	Maui	
MAUS	Longido	
MAVI	Loma El Joboban	
MAVM	Malinalco, Edo de Mexico	
MAW	Mawson	
MAY	Mayfield	
MAYB	Maynard	
MAYR	Mayorazgo	
MAYS	Mayak na Mysu Ozernom	
MAZ	Mazatlan	
MAZA	Mabujiaxiang, Xizang Zizhiqu	
MAZI	Mazidag	
MAZR	Mazracia	
MB-	McComb	MB-MS
MBA	Mount Bingar	
MBAR	Mbarara	
MBAT	Mbeya	
MBAZ	Motutapu North Island, New Zealand	
MBBY		
MBC	Mould Bay	
MBDF	Montbardon	
MBEL	Montebelluna (TV)	
MBET	Bethel	
MBFM	Blanchard Fire Station	
MBG	Matouba	
MBGA		
MBGB		
MBGE		
MBH	Mount Berech	
MBI	Menan Buttes	
MBIG	Mexicali	
MBJ	Montego Bay	
MBL	Marble Bar	
MBLG		MLGT
MBMH		
MB-MS	McComb	
MBO	M'Bour	
MBPA	Monroe Substation	
MBRI	Mt Berech	
MBRV		
MBRY		MRYT
MBSI	MBSI	
MBSS		
MBT	Marble Bar	
MBU	Bua	
MBUL	Mbulu	
MBUM	Mount Bullion	
MBUT	Moab	
MBV	Mont Bernier	
MBW	Mount Baker	
MBWA	Marble Bar	
MBWH		
MBZ	Menzel Bouzelfa	
MC-	Mitchell	MC-SD
MC01	Montes Claros	
MC02	Montes Claros	
MC03	Montes Claros	
MC04	Montes Claros	
MC05	Montes Claros	
MC06	Montes Claros	
MC2	Monte Cornaccione	
MCA	Marble Canyon	
MCA2	McAdam 2	
MCA3	McAdam 3	
MCA4	McAdam 4	
MCAB	Moca	
MCAD	Moucha	
MCAR	Mid-South CC	
MCARA	McCarthy VSAT	
MCAS	Mount Castle	
MCB	Moose Creek Bluff	
MCBM	Casa Benchmark	
MCC	Mica Creek	
MCCM	Marconi Conference Center, Marshall	
MCCR	Mono Craters	
MCD	Coleburn Distillery	
MCDM	Chidago Canyon	
MCE	Mica Creek	
MCEL	Monticello	
MCEM	Central Site	
MCG	Mt St Catherine	GRW
MCGN	Macugnaga	
MCH	Masachapa	
MCH1	Michaelchurch	
MCHM	Carson Hill	CRH
MCHV	Machiques	
MCHZ	McNeill Hill	
MCI	Monte Cassino	
MCI6	Montes Claros	
MCI7	Montes Claros	
MCI8	Montes Claros	
MCI9	Montes Claros	
MCID	Moose Creek	
MCIF	Montecalvo in Foglia	
MCIL	McClure	
MCIR	Makushin Cirque	
MCIV	Monte Civitella	
MCJ	Malvern	
MCK	McKinley	
MCKN	MacKay Lake North	
MCL	McNeil River	
MCLT	Moule a Chique	
MCM	McMurdo Sound	
MCMB1	Michelle Canyon Maxwell	
MCMM	Convict Lake	
MCMN	McManaman Lake, Nunavut	
MCMT	McKenzie Canyon	
MCN	Mercury	
MCNL	McNeil River	
MCO	Taipa Grande	
MCOR	Cornuda	
MCP	Moca	
MCPB	Macapa, AP	
MCPD	Capo d'Orlando	
MCPI	Mackay Peak	
MCPQ	Mount Cooper	
MCPZ		
MCQ	Macquarie Island	
MCQV	Machiques	
MCR	Mercer	
MCRA	Macar˜¡, Loja	
MCRB	Monte do Carmo	
MCRR	Mono Craters	
MCRS	Metsamor	
MCRV	Calabrutti - M.te Cervialto	
MCS	Marcus Island	
MC-SD	Mitchell	
MCSJ	Minami-tori-shima	
MCSM	Casa Diablo Hot Springs	
MCSR	Castroreale	
MCT	Mte Cammarata	
MCU	Monte Cristo Peak	
MCUB	Copperopolis Broadband	
MCUM	Copperopolis	
MCV	Mercury	
MCVM	Convict Lake	
MCVT	Middlebury College	
MCVV	Moc Chau	
MCW	Mount Constitution	
MCWV	Mont Chateau	
MCY	Mercury	
MD1	Moodus	
MD2	Moodus	
MD3	Moodus	
MD4	Moodus	
MD5	Moodus	
MDA	Mount Davis	
MDAL	Dalia	
MDAR	Monte D'Aria	
MDB	Medias	
MDBI	Mazsada	
MDC	Mount Diablo	
MDCM	Deadman Creek	
MDD	Madrid	
MDG	Madang	
MDGS	Mont de Guillon, France	
MDH	Madha	
MDI	Monti di Nese	
MDJ	Mudanjiang	
MDL	Mandileni	
MDM	Murphy Dome	
MDMP	Dominica, Moore Park	
MDN	Morne-Daniel	
MDND	Maddock	
MDNY	Mudanya-Bursa	
MDO	Dochfour	
MDOK	Medeo	
MDP	Montagnes des Pe@15res	
MDPB	Devils Postpile Broadband	
MDPM	Devils Postpile	
MDPO	Dominica; Chance, Portsmouth	
MDPV	Dominica, Pennville	
MDR	Madras	
MDRJ	Muduarah	
MDRM	Moondarra Dam	
MDRNC	Doe Ridge	
MDRS	Chennai	
MDRV	Mala Drenova	
MDS	Madison	
MDSI	Maura Dua	
MDSJ	Mudaysisat	
MDSM	Mandiavato	
MDT	Midelt	
MDU	Mudurnu	
MDUB	Mudurnu	
MDUM		
MDV	Middlebury	
MDVC	Dominica, Vielle Case	
MDVM	Presa Madin	
MDVR	Moldovita	
MDW	Midway	
MDY	Midway	
MDYM	Dry Creek	
MDZ	Mendoza	
ME-	Merritt	ME-BC
ME01	Mistretta	
ME02	San Fratello	
ME03	Palmi	
ME04	Brognaturo	
ME05	Diga del Menta	
ME06	Antenna a Mare	
ME07	Castell'Umberto	
ME09	Pentidattilo	
ME10	Cittanova	
ME12	Panarea 2	
ME15	Gioiosa Marea	
MEA	Monteagle	
MEAN	Meany Midle School ANSS-SMO	
MEB	Medea	
ME-BC	Merritt	
MEC	Mechernich	
MECC	Mecca Hills	
MECE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
MECH	Mejillones	
MECU	Ecuador Network	
MED	Medan	
MEDA	Medicine Hat	
MEDC	Medellin	
MEDO	Medina	
MEDS	Mednyi	
MEDT	Meda	
MEDY	Medina	
MEE	Meerut	
MEEK	Meekatharra	
MEF	Metsahovi	
MEG	Meangora	
MEGN	Megha	
MEGW	Megler CREST BB SMO	
MEH	Mehetia	
MEI	Melilli	
MEIG	Mezcala	
MEJI	Mejillones	
MEK	Meekatharra	
MEKA	Meekatharra	
MEKE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
MEL	Melbourne	
MELA	Melanico ??? S. Croce di Magliano	
MELE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
MELF	Melles	
MELI	Melilla	
MELS	Mels	
MELSS	Ber_school_2	
MEM	Membach	
MEMM	East Mammoth Hills	
MEMT	Mount Ellis	
MEN	Mendoza	
MENA	Menton	
MENF	Mencas	
MENI	Mendum Tagoi	
MENT	Mentasta	
MEO	Meers	
MEP	Mte del Estrado	
MER	Merida	
MERA	Merate	
MERK	Meru	
MERS	Mersin	
MERV	Las Mercedes	
MES	Messina University	
MES1	Messina Univ.	MES
MES2	Methoni	
MES3	Kyparissia	
MESA	MESA	
MESC	Monte Escuro	
MESG	Mesagne	
MESJ	Messejana	
MESS	Mesas	
MEST	Erdemli	
MET	Memphis--Engineering Building	
METK	Mets Parni	
METMA	Mettma DE	
METS	Metsamor	
MEU	Monte Lauro	
MEV	Metsovon	
MEW	McNeil Island	
MEX	Mexico City	
MEZ	Mezhgor'ye	
MEZF	Maizieres J'ville	
MF-	Medford	MF-WS
MF5	Montefalcone Appennino	
MFA	Mitchell Field	
MFAN	Fanzolo, Italy	
MFBM	Five Bridges	
MFCH	Minera del Fierro	
MFF	Saint Martin du Fouilloux	
MFI	Fishrie	
MFID	Camas Ranch	
MFM	Minneapolis	
MFNL	Monte Finestrelle	
MFNN	Fano	
MFO	Meers Fault	
MFP	Moca	
MFS	McCloud Flat South	
MFSFA	Multi FST (Faido)	
MFSFB	Multi FST (Faido)	
MFSM	McCloud Flat S	MFS
MFT	Murefte	
MFTN	Millsfield	
MFTR	Murfatlar	
MFW	Milton-Freewater	
MF-WS	Medford	
MG00	Magoula, Dorida,	

	Central Greece	
MG01	Puerto Williams	
MGA	Milagra Ridge	
MGAB	Montegabbione	
MGAN	Managua	
MGAT		MBGA
MGB	Mount Grey	
MGBA	MARTIN GARCIA	
MGBB	Grossbuechelberg	
MGBR	Mount Gambier	
MGC	Mingacevir	
MGCB	McGee Creek	
MGCD	Mangrove Creek Dam	
MGCU	Grand County Courthouse, Moab, UT	
MGD	Magadan 1	
MGDM		
MGDQ	Mulgrave and Derry, QC.	
MGER	Gerania Oros	
MGG	Marie-Galante	
MGH	Saint George's Hill	
MGI	Mount Gilboa	
MGIO	Monte Giove	
MGJ	Motegi	
MGL	Magalia	
MGLS	Mageik Landslide	
MGM	Magruder Mountain	
MGMO	Mountain Grove	
MGN	Mengen	
MGNA	Meganis,,	
MGNC	Mount Gibbes	
MGNR	McGee Canyon	
MGO	Magodro	
MGOD	Makushin Gods Own Repeater Site	
MGOO	Greenacres	
MGOR	Morogoro	
MGP	Maguayo	
MGP1	Megalopolis	
MGPB	Maguayo	
MGPM	Gravel Pit	
MGR	Morigerati	
MGRA	Magara	
MGRD	Malga Garda, Italy	
MGRO	Montegrosso	
MGRS	Mrkonjic Grad	
MGRZ	Megri	
MGS	Middleton Gardens	
MGTN	Margaret Lake	
MGU	Meadow Creek Golf Course	
MGUL	San Miguel	
MGV	Manicaragua	
MGVT	Montgomery	
MGZ	Maungaku	
MH-	Mitchell	MH-NB
MHA	Mahukona	
MHAI	Haid-Arzberg	
MHC	Mount Hamilton	
MHD	Mile High Drive	
MHDL	Marin Headlands	
MHDM	Hidden Dam	
MHEZ	Mangahewa	
MHGZ	Mahia Peninsula	
MHI	Mashad	MAIO
MHISU	ISU Mehedinti	
MHIT	MHIT	
MHJ	Mihama	
MHK	Manhattan	
MHL	Milos	
MHLA	Plaka, Milos Island	
MHLO	Agia Marina, Milos Island	
MHMT	Maesarieng	
MH-NB	Mitchell	
MHPQ	Mount Hope	
MHR	Mount Hamilton Road	
MHS	Mammoth Hot Springs	
MHT	Manhattan	
MHTCO	State Highway 12, Trinidad	
MHTO	MHTO	
MHV	Michnevo	
MHZ	Mount Horn	
MHZQ	Yeshan	
MIA	Miami	
MIAR	Mount Ida	
MIB	Mutribah	
MIC	Michilla	
MICGM	Minsk	
MICH	Michilla	
MICM	Guayabo	
MID	Middleton Island	
MIDA	Miranda	
MIDW	Midway	
MIDY	Mardin/Midyat-Merkez	
MIEE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
MIF	Mishlifen	
MIGL	Miglionico	
MII	Malini	
MIK	Minitrack	
MIKA	Lake Mikany	
MIKI	Bielsko-Biala	
MIKN	Mikawa	
MIKU	Namanyere	
MIL	Milan	
MILA	Mila	
MILG	Mill City	
MILK	Milimani	
MILM	Milestii Mici	
MILN	Milano	
MILO	Milagro-Astudillo	
MILR	Miller Mountain	
MILT	Milan	
MILZ	Milazzo	
MIM	Milo	
MIN	Mineral	
MINB	Miramichi	
MINR	Mina	
MINS	Minaret Summit	
MIO	Marion Island	
MIOU	Port Miou	
MIP	Matupit	
MIPR	Malaya Ipel'ka	
MIQ	Maniwaki	
MIR	Mirnyy	
MIR01	Medolla (MO)	
MIR02	Mirandola (MO)	
MIR03	Mirandola (MO)	
MIR04	Gavello, Mirandola (MO)	
MIR05	Villa Poma (MN)	
MIR06	Pieve di Coriano (MN)	
MIR07	Ostiglia (MN)	
MIR08	Quarantoli, Mirandola (MO)	
MIRA	Miradouro	
MIRC	Martinez Indian Reservation	
MIRN	Miramar	
MIS	Mishima	
MISD	Mianeh	
MISM	Misima Island	
MIST	Miston	
MISV	Misoa	
MIT	Mito	
MITH	Mitoyo	
MITM	Mitta Mitta	
MIV	Mineville/Witherbee	
MIW	Mizusawa	MIZ
MIX	Mix Canyon Road	
MIY	Miyako	
MIYA	Miryang-si	
MIYJ	Miyakonagasawa	
MIZ	Mizusawa	
MIZN	Minamiizu	
MJ00	Matshushiro Site	
MJ01	Matsushiro Array Site 1	
MJ02	Matsushiro Array Site 2	
MJ03	Matsushiro Array Site 4	
MJ04	Matsushiro Array Site 4	
MJ05	Matsushiro Array Site 5	
MJ06	Matsushiro Array Site 6	
MJ2	May Junction 2	
MJA0	Matsu Arr-Jizo	
MJA1	Matsu-Toyosaka	
MJA2	Matsu-Nakaone	
MJA3	Matsu-Soehiyama	
MJA4	Matsu-Jizotouge	
MJAR	Matsushiro Array Beam Reference Point	
MJAS	Monjas	
MJB1	Matsu-Takimoto	
MJB2	Matsu-Sugadaira	
MJB3	Matsu-Daira	
MJB4	Matsu-Nakagumi	
MJB5	Matsu-Yatsubo	
MJB6	Matsu-Irikaruiz	
MJB7	Matsu-Wadaira	
MJB8	Matsu-Inaba	
MJB9	Matsu-Tunnel	
MJHT	Jackboy Hill	
MJM	Morne Jacques	
MJMA	Al Majma'ah	
MJP	Mount John Pukaki	
MJSI	Majene	
MJW	Madison Junction	
MJZ	Mount John	
MK-	Marked Tree	MK-AR
MK01	Makanchi Array site	
MK02	Makanchi Array site	
MK03	Makanchi Array site	
MK04	Makanchi Array site	
MK05	Makanchi Array site	
MK06	Makanchi Array site	
MK07	Makanchi Array site	
MK08	Makanchi Array site	
MK09	Makanchi Array site	
MK31	Makanchi Array site	
MK32	Makanchi Array site	
MKA	Makaopuhi	
MKAO	Maswa Reserve	
MKAR	Makanchi Array Beam Reference Point	
MK-AR	Marked Tree	
MKAZ	Moumakai	
MKC	Moncks Corner	
MKH	Mauna Kea	
MKI	Maiskii, Chutkotka	
MKIT	Kithairon Oros	
MKJ	Miyake jima	
MKL	Maskali	
MKMT	Mink Peak	
MKN	Medicine Creek Dam	
MKNA	Makna	
MKO	Miyako	
MKPT	Marks Point, NSW, Australia	
MKRE	Bukene	
MKRJ	Makawir	
MKRVA	Milk River, Alberta	
MKRZ	Makatiti	
MKS	Makassar	
MKT	Machtesh Katan	
MKV	Markovo, Chukotka	
MKVL	Makkovik	
MKW	Mikawa	
MKY	Makeyevka	
MKZ	Mys Kozlova	
ML-	Mogollon	ML-NM
ML1	Mono Lake	ML1CL
ML1CL	Mono Lake	
ML2	Mono Lake	ML2CL
ML2CL	Mono Lake	
ML3	Mono Lake	ML3CL
ML3CL	Mono Lake	
ML4	Mono Lake	ML4CL
ML4CL	Mono Lake	
MLA	Malaspina Glacier	
MLA1	Latheron	
MLAC	Mammoth, Mammoth Lakes	
MLAL	Sawyerville	
MLAV	Muong La station	
MLAZ	Malazgirt-MUS	
MLB	Malabar	
MLBA	Muleba	
MLBS	Spotswood, Melbourne	
MLC	Manzanita Lake	
MLCM	Laurel Creek Canyon	
MLD	Malden	
MLDM	Malden	
MLE	Mileto	
MLF	Milford	
MLFH	Mildenfurth	
MLG	Mont-d'or	
MLGT	Long Ground	
MLH	Mauna Loa	
MLHM	Little Hot Creek	
MLI	Malad Range	
MLIM	Lincoln Peak	
MLK	Milford Reservoir	
MLK*	Malo-Kuril'sk	
MLK4	Malkovo	
MLKM	Mammoth Lakes	
MLKS	Milkovo	
MLL	Mill Creek	
MLM	Mesa Lucero	
MLN	Mulungwishi	
MLNI	Malnisio	
ML-NM	Mogollon	
MLNR	Milner Canyon	
MLNT	Millington	
MLOA	Mauna Loa Observatory	
MLON	Marlo Lake	
MLP	Malaspina Glacier	MLA
MLPR	Magueyes Island, Lajas, Puerto Rico	
MLQ1	Kipawa	
MLQ2	Temiscaminque	
MLR	Muntele Rosu	
MLS	Moulis	
MLSB	Milas	
MLSC	Mira Loma	
MLSI	Meulaboh, Aceh	
MLT	Malta	
MLTT	Malatya	
MLV	Malvaux	
MLVB	It Ong	
MLW	Milwaukee	
MLWM	Molesworth	
MLX	Mauna Loa 2	
MLY	Manley	
MLYF	Mely	
MLYT	Lee's Yard	
MLZ	Mavora Lakes	
MM-	McMinnville	MM-TN
MMA	Mummy Mountain	
MMA0	Mount Meron array	
MMA0B	Mount Meron array	
MMA1	Mount Meron array	
MMA2	Mount Meron array	
MMA3	Mount Meron array	
MMA4	Mount Meron array	
MMAI	Mount Meron Array Beam Reference Point	
MMAR	Mareno di Piave, Italy	
MMB	Musomiste	
MMB1	Mount Meron array	
MMB2	Mount Meron array	
MMB3	Mount Meron array	
MMB4	Mount Meron array	
MMBI	Montebello Ionico	
MMC	Middle Cape	
MMC1	Mount Meron array	
MMC2	Mount Meron array	
MMC3	Mount Meron array	
MMC4	Mount Meron array	
MMC5	Mount Meron array	
MMC6	Mount Meron array	
MMC7	Mount Meron array	
MMCS	Mount Moriah Church	
MMCZ	Mount Michael	
MME	Monte Cimone	
MME1	Meikle Cairn	
MMG	Magdalena	
MMGO	Monte Magaggiaro	
MMIG	Aquila	
MMIM	Miami Mountain	
MMK	Mattmark	
MML	Mount Malkishua	
MML1	Montelago di Sefro	
MMLB	Mammoth Lakes Knolls	
MMLI	Mount Malkishua	
MMM	Pea Ridge Mine	
MMME	Mongiuffi-Melia	
MMN	Mormanno	
MMNB	Middle Mountain	
MMNY	Mt. Morris Dam	
MMO	Medio Mundo	
MMO1	Montemonaco	
MMP	Mount Mary	
MMPH	Masbate	
MMPI	Merauke	
MMPM	Mammoth Pass	
MMR	Mount Meron	
MMRI	Maumere	
MMS	Matam	
MMSI	Mamuju	
MMSM	Mammoth Summit	
MMT	Marsa Matruh	
MM-TN	McMinnville	
MMU	Miners Mountain	
MMUR	Monte Murano	
MMWM	Mi Wuk Village	
MMY	Middlesmoor	
MN-	Mina	MN-NV
MN3	Montappone	
MNA	Mina	
MNAI	Manna	
MNAS	Manas	
MNAT	Makushin Nateekin	
MNB	Mounoet Dainard	
MNB1	Minab	
MNBS	Baschi	
MNBU	Menbuxiang, Xizang Zizhiqu	
MNC	Moncalieri	
MNCI	Minicoy	
MNCY	Minicoy	
MND	Mandalay	
MNDI	Mendi	
MNDR	Mendeleevo	
MNE	Mineo	
MNFI	Manof	
MNG	Mangahao	
MNGI	Mangalore	
MNGR	Mingechevir, Azerbaijan	
MNH	Munich	
MNHB	New Hogan Dam	
MNHK	Manihiki	
MNHM	New Hogan Reservoir	
MNI	Manado	
MNJ	Mineoka	
MNK	Minsk	
MNKH	Manakhah	
MNKR	ALMNKUR	
MNL	Mangla	
MNM	Minneapolis	
MNMC	Minye Minye	
MNMCX	Minye Minye	
MNN	Minneapolis	
MNNAM	Montana	
MN-NV	Mina	
MNO	Monte Soro	
MNP	Morong	
MNQ	Manicouagan	
MNR	Mines Road	
MNRC	McLaughlin Mine	
MNRI	Mount Meron	
MNS	Montasola	
MNSI	Mandailing Natal	
MNSR	Manas	
MNT	Montreal	
MNT3	Montella	
MNTP	Montappone	
MNTQ	Montreal, Quebec	
MNTT	Montottone	
MNTV	Mantova	
MNTX	Cornudas Mountains	
MNU	Milford North	
MNV	Mina	
MNVA	Monemvasia	
MNVG	Manavgat-Antalya	
MNVS	Mnogovershinnie	
MNW	Monowai	
MNWA	Manchester	
MNY	Monteynard	
MNYS	Manysh	
MNZ	Manzanillo	
MO-	Mountain Home	MO-ID
MO5M		
MO7M		
MO8M		
MOA	Molln	
MOAB	Moab Khotsong	
MOAC	Moa	
MOB	Menlo Park	
MOBB	Monterey Bay OB	
MOBC	Moresby Island	
MOBC2	Moresby, Haida Gwaii	
MOBN	Mombacho	
MOC	Mount Cameroon	
MOCA	Moca	
MOCB	Mochara	
MOCH	Los Molles	
MOCL	Monte Cuccoli	
MOCN	Mocoron	
MOCO	Biccari - m.te Cornacchia	
MOD	Modoc Plateau	
MODE	Modena	
MODR	Mondragone	
MODS	Modra-Piesok	
MODW	Modelwitz	
MOE	Montemor	
MOF	Molkenrain	
MOG	Mogadiscio	
MOGR	Mogosoaia	
MOH	Mohaka	
MOHS	Muhayil	
MOI	Mount Montar	
MO-ID	Mountain Home	
MOIG	Morelia	
MOIN	Puerto Moin	
MOK	Mokapu	
MOKC	Mount Cameroon	
MOKO	MOKOCHONG	
MOKY	Morganfield	
MOL	Molde	
MOLA	ALG	
MOLE	Moliterno	
MOLL	Mollejon	
MOLS	Halavar	
MOM	Momote	
MOMA	Monte Martano	
MOMI	Momias	
MOMJ	Momotombo	MOMN
MOMN	Momotombo	
MOMR	Moma	
MOMT	Monida	
MON	Monaco	
MONB	Balzapamba Montalvo, CascadaMilagrosa	
MONC	Moncucco Torinese	
MOND	CHI Itaipu Binacional	
MONE	Monesi	
MONG	Mongu	
MONJ	Montclair	
MONL	Mont	
MONM	Monmouth	
MONO	Monmouth DOGAMI SMO	
MONP	Monument Peak, Mt. Laguna	
MONP2	Monument Peak TA Vault, Mt. Laguna	
MONQ	Montcuq	
MONR	Mono Valley	
MONT	Ecomontan@16a	
MONV	Montecano	
MOO	Moorlands	
MOON	Moon Mountain	
MOOW	Moose Ponds	
MOP	Monarch Peak	
MOPA	Mopani	
MOPM	Molcaxac	
MOQ	Mont Orford	
MOR	Mori	
MOR1	Moi Rana	
MOR2	Moi Rana	
MOR3	Moi Rana	
MOR4	Moi Rana	
MOR5	Moi Rana	
MOR6	Moi Rana	
MOR7	Moi Rana	
MOR8	Moi Rana	
MORC	Moravsky Beroun	
MORF	Marmelete	
MORG	Mount Morgan	
MORH	M˜‡r˜¡gy, Hungary	
MORI	Morici	
MORO	Morrocoy	
MORR	Playas El Morro	
MORS	Morshin	
MORSI	Morsiglia	
MORU	Morshyn	
MORW	Morawa	
MOS	Moscow	
MOS1	Moschato	
MOSH	Moshi	
MOSI	Grossmontoni	
MOSL	Moslavina	
MOSM	Osimo	
MOSO	Mohican School	
MOT	McDonald Observatory	

Code	*Station Name*	*Other*
MOT1	McDonald Obs.	
MOT2	McDonald Obs.	MT2
MOT3	McDonald Obs.	
MOT4	McDonald Obs.	
MOTA	Moosalm	
MOTC	Monteria, Cordoba	
MOTN	Model	
MOTP	Motapaya	
MOUT	Mount Ogden	
MOV	Morovis	
MOV1	Cotopaxi Vol south	
MOVZ	Moawhango	
MOW	Moikau	
MOX	Moxa	
MOY	Mondy	
MOYM	O'Byrne Ferry	
MOYN	Moyogalpa	
MOZ	Mahoenui	
MOZS	Mozjanca	
MP-	Mountain Pine	MP-AR
MPA	Moose Pass	
MPAG	Monte Paganuccio	
MPAL	Palemas	
MPAR	Parnis Oros	
MP-AR	Mountain Pine	
MPAZ	Palizzi	
MPDM	Moonee Ponds	
MPEP	Malo Peshtene	
MPG	Monte Pellegrino	
MPGF	Montagnes des Peres	
MPH	Memphis	
MPI	Mount Pinos, Frazier Park	
MPK	Martis Peak	
MPL	Maple valley SMO-IDS24	
MPLH	Magyarpol˜¡ny	
MPM	Monte-Pele	
MPMC	Manual Prospect Mine,Trona	
MPNC	Port Mandanici	
MPOM	Morne Pois Martinique	
MPOR	Mary's Peak	
MPP	Mount Pasian	
MPPO	Murphy's Point	
MPR	Mayaguez	
MPRD	Prada, Italy	
MPRI	Monte Prat	
MPRO	Farra di Soligo, Italy	
MPSI	Mapaga	
MPT	Matupit Island	
MPTV	Morphett Vale	
MPU	Maple Canyon	
MPVT	Montpelier	
MQI	Macquarie Island	
MQZ	McQueen's Valley	
MR-	Middleburg	MR-PA
MR01	Monticello Reservoir Site 1	
MR02	Monticello Reservoir Site 2	
MR03	Monticello Reservoir Site 3	
MR04	Monticello Reservoir Site 4	
MR05	Monticello Reservoir Site 5	
MR06	Monticello Reservoir Site 6	
MR07	Monticello Reservoir Site 7	
MR08	Monticello Reservoir Site 8	
MR09	Monticello Reservoir Site 9	
MR10	Monticello Reservoir Site 10	
MR6*	Monte Rosa	
MRA	San Martin	
MRAK	Mrakovica	
MRAT	Mt Rat	
MRB	Monserrat	
MRB1	Monte Rocchetta	
MRC	Montrose	
MRCB	Reggio Calabria	
MRCM	Red Rock Canyon	
MRCP	Maricao	
MRD	Mojave River Dam	
MRDM	Red Cones	
MRE	Mariestad	
MREF	Refrontolo, Italy	
MREP	Makushin Rep'tr	
MRF	Miraflores	
MRFM	Railroad Flat South	
MRFT	Murafatepe	
MRG	Morgantown	
MRGE	Morge	
MRH	Marewa	
MRHM	Rocky Hill	
MRHQ	Morin Heights	
MRHZ	Matea Rd	
MRI	Mauritius Island	
MRIN	Marion BPA Site DOGAMI SMO	
MRIV	Mauritius Meteorological Services (Vacoas)	
MRJ	Moriya	
MRK	Morioka	
MRKA	Markates	
MRKH	Merkhyat	
MRKJ	Morioka 2	
MRKS	Merke	
MRL	Marmol	
MRLC	Muro Lucano	
MRMA	Marmari	
MRMJ	Muroto Misaki	
MRMT	Marmara Adasi	
MRN	Sint Maarten	
MRN3	Marsico Nuovo (PZ)	
MRNI	Mount Meron	
MRNQ	Morin Heights	
MRO	Meridian	
MROB	Rosenbuehl-Arzberg	
MRP	Merapi	
MR-PA	Middleburg	
MRPI	Mariponipon	
MRR	Muroran	
MRRJ	Muroran 2	
MRS	Maars	
MRSB	Marmaris-Mugla	
MRSI	Marisa	
MRSJ	Marsad	
MRSS	Morshin	MORS
MRT	Murotomisaki	
MRT2	Murotomisaki 2	
MRTI	Martiadasi	
MRVC	Morongo Valley	
MRVI	Mt Valcellina	RCL
MRVN	Minervino Murge	
MRVT	Maraveh tapeh	
MRW	Makara Radio	
MRWA	Morawa	
MRX	Morelia	
MRY	Mary	
MRYN	Mary River	
MRYT		
MRZ	Mangatainoka River	
MRZ1	Merzbaher-Enilchek	
MS-	Montrose	MS-PA
MS1	Monte Sant'Angelo (FG)	
MSA	Mount San Antonio	
MSAB	Monastry St. Andrei	
MSAG	Monte S. Angelo	
MSAI	Masohi	
MSAL	Mont Sano	
MSAR	Manila South	
MSB	Manso	
MSB1	Montesarchio	
MSBB	Schoenbrunner Berg-Wunsiedel	
MSC	Monte Massico	
MSCL	Scilla	
MSCO	Mesa State College	
MSCZ	Moutere Station	
MSDA	Masada	
MSE	Moose Creek	
MSEY	Mahe Island	
MSF	Maaselka	
MSFE	Esma-Masafi	
MSFR	San Fratello	
MSG	Moessingen	
MSGF	Morne Soldat	
MSH	Mashhad	
MSH11	Mount St. Helen	
MSH21	Mount St. Helen	
MSH31	Mount St. Helen	
MSHA	Masjed Soleyman	
MSHR	Mys Shultsa	
MSI	Messina ING	
MSIR	Sirolo	
MSJ	Mission San Jose	
MSK	Misaki	
MSKJ	Misakubo	
MSKU	Masuku	
MSL	Mosul	
MSL1	Messolongi	
MSLM	Sherwin Lakes	
MSLP	Maasin	
MSM	Mount Sar Shalom	
MSMT	Mission Creek	
MSN	Misono	
MSNA	Messina	
MSNJ	Montclair St. U.	
MSNO	Moosonee Ontario	
MSNY	Massena	
MSO	Missoula	
MSOM	Makushin Julie Andrews	
MSON	Mazon	
MSP	Mount Santo Tomas	
MS-PA	Montrose	
MSPT	Saint Patrick	
MSR	Malnas	
MSRU	Castanea	
MSS	Messtetten	
MSSA	Maissana	
MSSB	Serra Sant'Abbondio	
MSSG	San Giuliano del Sannio	
MSSI	Masamba	
MST	Mostar	
MSTB	Masset	
MSTD	Santandra', Italy	
MSTM	Stent	
MSTX	Muleshoe	
MSU	Marysvale	
MSUEL	Midwestern State University	
MSV	Monasavu	
MSVF	Nonsavu	
MSW	Makushin Switchbacks	
MSWZ	Moikau Station	
MSZ	Milford Sound	
MT01	Popeta	
MT02	Curacav˜›	
MT03	Universidad Adolfo Iba˜–ez	
MT05	Renca	
MT09	Talagante	
MT1	Boracho Peak	
MT2	Eagle Mountain	
MT3	Miller Ranch	
MT4	Brite Ranch	
MTA	Mtatsminda	
MTAZ	Motutapu	
MTB	Montebello Ridge	
MTBL	Makushin Table Top	
MTBS	Maitube	
MTC	Morgan Territory	
MTCE	Montecelio	
MTCR	Monte La Croce	
MTD	Mount Darwin	
MTDJ	Mount Denham	
MTE	Manteigas	
MTG	Montague Island	
MTGE	Mitogawa	
MTGR	Montagna Grande	
MTH	Montachique	
MTHF	Mouthoumet	
MTHZ	Maungataniwha	
MTI	Mount Irish	
MTI01	Mont Terri (ME Nische)	
MTI02	Mont Terri, (HE Schacht)	
MTI03	Mont Terri (freefield, SED-Schacht NW400, Brunefarine) JU	
MTIG	Mestia	
MTJ	Mount Tsukuba	TSK
MTK	Mitaka	
MTKI	Muara Teweh, Kalimantan	
MTKN	Mount Kenneth	
MTKZ	Martakert	
MTL	Mount Taylor	
MTL1	Matelica	
MTLAZ	Mount Logan	
MTLF	Montolieu	
MTLM	Mount Tassie Tower	
MTLO	Montello	
MTM	Matsumoto	
MTMJ	Matsumoto	
MTMW	Mount Mitchell	
MTN	Manton Dam	
MTNG	Tinghir	
MTNI	Mataram	
MTNS	Mutnovskaya	
MTNZ	Martuni	
MTO	Montecristo	
MTO2	Montecristo 2	
MTO3	Montecristo	
MTOM	Cavaso del Tomba, Italy	
MTOR	TORKOZ	
MTP	Monte Pirata	
MTP1	Motopi	
MTPB	Monte Pirata	
MTPC	Mountain Pass	
MTPM	Central Michigan University	
MTPU	Mount Pierson	
MTQ	Monturaqui	
MTR	Monterey	
MTRD	Mount Read	
MTRZ	Monterenzio	
MTS	Matsue	
MTSA	Monte Escuro	
MTSE	Matsula	
MTSH	Mount Sheppard	
MTSN	Montesano sulla Marcellana	
MTST	Matsu	
MTSU	Mount Surprise	
MTT	Monetta	
MTTG	Motta San Giovanni	
MTU	Montague Island	
MTUM	Tungsten Hills	
MTUR	Matau	
MTUT	Morton Thiokol	
MTV	Mount Tassie	
MTVR	Mutnovka	
MTVZ	Mangateitei	
MTW	Mount Morrison	
MTX	Marathon	
MTY	Matsuyama	
MTZ	Montezuma	
MTZV	Met	
MU-	Mt Baker	MU-WA
MUB	Muncho Lake	
MUCO	Mount Union College	
MUCR	Ucria	
MUD	Monsted U'grnd	
MUDI	Mud Lake	
MUDJ	Muduarah	
MUGIO	Muggio	
MUGL	Yilanlidag	
MUGZ	Murupara	
MUI	Mashhad University	
MUIF	Mont Vial	MVIF
MUJ	Mitsuishi	
MUK	Mukerian	
MUKH	Al Mukha	
MUKL	Al Mukalla	
MUKU	Mukachevo	
MUL	Mullan	
MULA	Mu¯la/Merkez-¯kizce	
MULD	Muldenberg	
MULG	Mulgathing	
MUM	Manipur University	
MUMO	Musselwhite Mine	
MUMZ		
MUN	Mundaring	
MUNC	Munchique	
MUO	Muotathal	
MUP	Murgab	
MUR	Murgab	
MURB	Monte Urbino	
MURC	Murrieta	
MURR	Camp Murray	
MUS	Muskinabad	
MUSH	Mushullacta	
MUSM	Mu¯-Merkez	
MUT	Mudurnu	
MUTC	Mutkov	
MUVB	Co Noi	
MUVC	Mutkov	
MU-WA	Mount Baker	
MUX	Union Juarez	
MUZ	Mutare	
MUZF	Muzaffarabad	
MV-	Marysville	MV-CL
MV-CL	Marysville	
MVCO	Mesa Verde	
MVF	Macchia Valfortore	
MVG	Mesters Vig	
MVH	Mountain View	
MVH1	Achvaich	
MVI	Minamidaito jima	
MVIF	Mont Vial	
MVKY	Maysville	
MVL	Millersville	
MVLT	Maryville	
MVM	Montagne Vauclin	
MVMO	Maryville College	
MVNO	Noumea	
MVO	Moncorvo	
MVOU	Mavrovouni	
MVOV	Montserrat Volcano Observatory	
MVT	Monte Vettore	
MVU	Marysvale	
MVW	Mud Volcano	
MW-	Mattawa	MW-ON
MWA	Mag Wash	
MWAB	Mount Washington	
MWC	Mount Wilson	
MWG	Munster	
MWG1	Mawana Gate	
MWH	Moku'a@18weoweo	
MWI	Montserrat	
MW-ON	Mattawa	
MWPI	Manokwari, Papua	
MWS	Mawashi	
MWSR	Sibiti River	
MWZ	Matawai	
MX-	Manchester	MX-TN
MXC	Moxie City	
MXMB	Maximikha	
MX-TN	Manchester	
MXZ	Matakaoa Point	
MY-	McCrory	MY-AR
MYA	Malataya	
MY-AR	McCrory	
MYAS	Myakit	
MYB	Mayabunder	
MYD	Miyazu	
MYG	Matka	
MYI	Mount Yahel	
MYIG	Me@15rida	
MYK	Miyako zima	
MYKA	Terra Mystica	
MYKOM	Kota Tinggi	
MYKS	Mirrayikh	
MYLDM	Lahad Datu	
MYLM	Yosemite Lake	
MYLR	Mylor	
MYNC	Murphy	
MYO	Myokensan	
MYP	Myponga	
MYR	Moyori	
MYRZ	Mayor Island	
MYT	Moyuta	
MYV	Myrviken	
MYZ	Miyazaki	
MYZ2	Miyazaki 2	
MZ-	Mount Ida	MZ-AR
MZA	Mariazell	
MZ-AR	Mount Ida	
MZBI	Masada	
MZDA	Masada	
MZE	Maze	
MZEK	Zeckenberg-Ebnath	
MZF	Mazirat	
MZH	Maizuru	
MZH2	Maizuru 2	
MZI	Mizumiiro	
MZLS	Mizel	
MZM	Mzuzu	
MZM2	Mzuzu	
MZO	Mazie Landing	
MZP	Montezuma Peak	
MZR	Muzera	
MZRK	Al-Mazaregh	
MZT	Mikazuki	
MZVM		
MZX	Mazatlan	
MZZ	Mansa	
N001	Pisciano	
N002	Montecucco	
N004	Ronchi	
N02C	Big Bar	
N02D	Trinity Center, CA	
N06A	Buffalo Meadows, Empire	
N07A	Gerlach	
N07B	Gerlach	
N08A	GE Springer Mine, Mill City	
N09A	Rock Creek Ranch, Golconda	
N10	NORSAR Subarray 10C Beam Reference Point	
N10A	Dunphy	
N11	NORSAR Subarray 11C Beam Reference Point	
N11A	Elko Archery Club, Elko	
N12	NORSAR Subarray 12C Beam Reference Point	
N12A	Clover Valley, Wells	
N13	NORSAR Subarray 13C Beam Reference Point	
N13A	Wendover, West Wendover	
N14	NORSAR Subarray 14C Beam Reference Point	
N14A	Grayback Hills BLM, Clive	
N15A	Stansbury Island BLM, Grantsville	
N16A	Rees Ranch, Coalville	
N17A	Moffit Pass	
N18A	Larsen Ranch, Manila	
N19A	John Jarvie Ranch (BLM), Flaming Gorge	
N1R1	Vettahaugen	
N1R2	Lillevik	
N1R3	Nordsjona	
N1R4	Lillevand	
N1R5	Hammernes	
N1R6	Dalselv	
N20A	Spence Gulch, Sunbeam	
N21A	Black Mountain, Craig	
N22A	Wattenberg Ranch, Walden	
N23	N23	
N23A	Red Feather Lakes	
N24A	Carr	
N25A	Grover	
N26A	Koester Ranch, Padroni	
N27A	Anderson Farm, Haxtun	
N28A	Pribbeno Ranch, Imperial	
N29A	Votaw Ranch, Wellfleet	
N2B1	Tytingvag	
N2B2	Myklebust	
N2B3	Lovikneset	
N2B4	Drage	
N2B5	Haus	
N2B6	Leirgulen	
N2B7	Tytingvag	
N2-NV	Test Site	
N30A	Hueftle Ranch, Cozad	
N31A	Bailey Ranch, Gibbon	
N32A	Stulken Farm, Doniphan	
N33A	J Bar K, Exeter	
N34A	Lincoln	
N35A	Tabor	
N36A	Muff Farm, Clarinda	
N37A	Lee Faris, Mount Ayr	
N38A	Joes South Fork Station, Corydon	
N39A	Derby Farms, Drakesville	
N40A	Mertquake, Salem	
N41A	Harden Midland Farm, Stronghurst	
N42A	Yates City	
N43A	Stutzman Family Farm, Minonk	
N44A	Piper City	
N45A	Kentland	

Code	Station Name	Other
N46A	Monticello	
N47A	Urbana	
N48A	Decatur	
N49A	Columbus Grove	
N50A	Nevada	
N51A	Ashland	
N52A	McGinn's Farm, Dalton	
N53A	Lisbon	
N54A	Moraine State Park, Portersville	
N55A	Marion Center	
N56A	West Decatur	
N57A	Milroy	
N58A	Sunbury	
N59A	State Game Land 141, Hazleton	
N60A	Cedar Hill Farm, Mount Bethel	
N61A	South Mountain, Millburn	
N62A	Caumsett State Park, Huntington	
N63A	Mattituck	
NA0	NORSAR 1A	NAO
NA11	North Anna	
NA12	North Anna	
NA2	North Anna	
NA5	North Anna	
NAA	Naalehu	
NAB	Nanaimo	
NAB1	NAB1	
NAB2	NAB2	
NAB3	NAB3	
NAB4	NAB4	
NAB5	NAB5	
NAB8	NAB8	
NABD	Nabeyama	
NABI	Nabire	
NAC	Naches	
NACB	Ninganchiao	
NACGM	Naroch	
NADB	Abo Dabab	
NADM	Allendale	
NADR	Nagua	
NADZ	Nadzab	
NAE	Nake (Tuamotu)	
NAF	Naboro	
NAFE	NAFE	
NAG	Nagoya	
NAGA	Nagai Island	
NAGO	Nago	
NAGR	Nagutskaya	
NAH	Naha	
NAH1	Naha	
NAHD	NAHD	
NAI	Nairobi	
NAIG	Nisos Aigina	
NAIL	Nailongxiang, Xizang Zizhiqu	
NAIN	Natchez Trace	
NAIT	NWS Agricenter	
NAIU	Northern Antelope Island	
NAJS	Najran	
NAK	Naxcivan	
NAKO	Nairobi	NAI
NAL	Nallihan	
NALI	Nalia	
NALPS	Val Nalps	
NALS	Nice, Jardin Alsace-Lorraine	
NALY	Nalychevo	
NAM	Namangan	
NAMA	Namatanai	
NAMC	Namche Bazar	
NAMS	An Nimas	
NAN	Nanjing	
NANB	Nanao	
NANL	Nain	
NANO	Nakina Ontario	
NANS	Nanahuazin	
NANT	Nan	
NANU	Nanutarra	
NAO	NORSAR Subarray 1A Beam Reference Point	
NAO00	NORSAR Array Site 01A00	NAO
NAO01	NORSAR Array Site 01A01	
NAO02	NORSAR Array Site 01A02	
NAO03	NORSAR Array Site 01A03	
NAO04	NORSAR Array Site 01A04	
NAO05	NORSAR Array Site 01A05	
NAP	Napay	
NAPC	Atlas Peak	
NAPF	Napfberg	
NAPI	Complesso Universitario Monte Sant'Angelo	
NAPP	Napperby	
NAQJ	Ras En-Naqb	
NAQL	Naqoura	
NAR	Nara	
NAR2		
NARA	Nara (Leontica)	
NARJ	Nu aruja	
NARM	Nariel	
NARN	Narni	
NARO	Abbazia di Naro	
NART	Narlikuyu	
NARZ	Nor Artik	
NAS	Nasaqa	
NAS1	Nasa	
NAS2	Nasa	
NASE	Paila	
NASN	Na'in	
NAST	IGS Nastaetten	
NASU	Vaermlandsnaes	
NAT	Natal	
NAT1	Nathian	
NATA	Nata	
NATB	Natividade	
NATG	Natashquan Quebec	
NATI	Neve Ativ	
NATM	Nattai	
NATN	Natchez Trace	
NATX	Nacogdoches	
NAU	Nanutarra	
NAV	Narrows	
NAVD	Navidad	
NAWB	Namwon	
NAX	Nakhchivan	
NAX1	Naxos Island	
NAY	Al-Naaiem	
NAYO	Nakonayok	
NAYS	Naiba	
NAZ	Nazwa, Dubai	
NAZA	Ethiopian Broadband Seismic Experiment	
NB-	North Branch	NB-MN
NB2	NORSAR Subarray 2B Beam Reference Point	
NB200	NORSAR Array Site 02B00	NB2
NB201	NORSAR Array Site 02B01	
NB202	NORSAR Array Site 02B02	
NB203	NORSAR Array Site 02B03	
NB204	NORSAR Array Site 02B04	
NB205	NORSAR Array Site 02B05	
NB2S	Katnajur	
NB3	NORSAR Subarray 3B Beam Reference Point	
NB4	NORSAR Subarray 4B Beam Reference Point	
NB5	NORSAR Subarray 5B Beam Reference Point	
NB6	NORSAR Subarray 6B Beam Reference Point	
NB7	NORSAR Subarray 7B Beam Reference Point	
NBAN	Anadia - AL	
NBBI	Negara	
NBC1	NorthernBC 1	
NBC2	NorthernBC 2	
NBC3	NorthernBC 3	
NBC4	NorthernBC 4	
NBC5	NorthernBC 5	
NBC6	NorthernBC 6	
NBCA	Caruaru-PE	
NBCL	Cascavel-CE	
NBCP	Cabaceiras do Paraguassu - BA	
NBCP0	Cabaceiras do Paraguassu - BA	
NBD	Nebitdag	
NBEZ	Newall Road North Island, New Zealand	
NBG	Las Nubes	
NBH	North Bay	
NBI	Nairobi	
NBIT	Itapeh - BA	
NBK	Nectar Brook	
NBLA	Lagarto - SE	
NBLI	Livramento-PB	
NBMA	Muriti-CE	
NB-MN	North Branch	
NBMO	Morrinhos-CE	
NBNS	Bani Suef	
NBO	NORSAR Subarray 1B Beam Reference Point	
NBO00	NORSAR Array Site 01B00	NBO
NBO01	NORSAR Array Site 01B01	
NBO02	NORSAR Array Site 01B02	
NBO03	NORSAR Array Site 01B03	
NBO04	NORSAR Array Site 01B04	
NBO05	NORSAR Array Site 01B05	
NBOR	Nice, Mont Boron	
NBP	Mount Natib	
NBPA	Parau_RN	
NBPB	Pedra_Branca-CE	
NBPM	Berryessa Peak	
NBPN	Ponto Novo - BA	
NBPS	Pedro II - PI	
NBPV	Pedro Velho	
NBRB	Beebe Ranch Broadband	
NBRF	Rio Formoso - PE	
NBRM	Beebe Ranch	BBR
NBS	Nizhniy Bestyah	
NBTA	Tacaratu-PE	
NBW	Neah Bay	
NC2	NORSAR Subarray 2C Beam Reference Point	
NC200	NORSAR Array Site 02C00	NC2
NC201	NORSAR Array Site 02C01	
NC202	NORSAR Array Site 02C02	
NC203	NORSAR Array Site 02C03	
NC204	NORSAR Array Site 02C04	
NC205	NORSAR Array Site 02C05	
NC27	ODP1027	
NC3	NORSAR Subarray 3C Beam Reference Point	
NC300	NORSAR Array Site 03C00	NC3
NC301	NORSAR Array Site 03C01	
NC302	NORSAR Array Site 03C02	
NC303	NORSAR Array Site 03C03	
NC304	NORSAR Array Site 03C04	
NC305	NORSAR Array Site 03C05	
NC4	NORSAR Subarray 4C Beam Reference Point	
NC400	NORSAR Array Site 04C00	NC4
NC401	NORSAR Array Site 04C01	
NC402	NORSAR Array Site 04C02	
NC403	NORSAR Array Site 04C03	
NC404	NORSAR Array Site 04C04	
NC405	NORSAR Array Site 04C05	
NC5	NORSAR Subarray 5C Beam Reference Point	
NC6	NORSAR Subarray 6C Beam Reference Point	
NC600	NORSAR Array Site 06C00	NC6
NC601	NORSAR Array Site 06C01	
NC602	NORSAR Array Site 06C02	NRE0
NC603	NORSAR Array Site 06C03	
NC604	NORSAR Array site 06C04	
NC605	NORSAR Array Site 06C05	
NC7	NORSAR Subarray 7C Beam Reference Point	
NC8	NORSAR Subarray 8C Beam Reference Point	
NC89	ODP889	
NC9	NORSAR Subarray 9C Beam Reference Point	
NCA	Nelchina	
NCAD	Nice - Cite Administrative des Alpes-Maritimes	
NCAT	North Carolina A&T Campus	
NCAU	Nice, cimetiˆ¤re Caucade	
NCB	Newcomb	
NCBC	Barkley Canyon	
NCDM	Cavedale Road	CRD
NCE	Nasa Cotopaxi	
NCEN	NEPTUNE Canada Endeavour node	
NCER	Nice Cerbom	
NCFM	Canfield Road	
NCG	North Capps Glacier	
NCHK	Nachiki	
NCHR	NEPTUNE Canada High Rise	
NCJ	New Castle	
NCK	Nalchik	
NCM	Ninemile Creek	
NCO	Norsar Array Site 01C00	
NCOR	Newberry Crater	
NCRB	Newcastle Ridge	
NCS	Nueva Concepcion	
NCT	North Crescent	
NCU	National Central University	
NCUH	Zhongli	
NCV	Pung Luong	
ND-	Needles	ND-CL
NDA	Nedlands	
NDB	Naden	
ND-CL	Needles	
NDE	Delaikoro	
NDF	Nadi	
NDHM	Dunnigan Hills	
NDI	New Delhi	
NDIM	Novi di Modena	
NDMT	Ninemile Divide	
NDNU	Novodnistrovsk	
NDR	Nardaran	
NDT	Datong Township	
NE01	Goteborg	
NE02	Monsted	
NE03	Logumkloster	
NE04	Witteveen	WIT
NE05	Utrecht	
NE06	Dourbes	DOU
NE07	Villiers-Adam	VDM
NE08	Aigurande	
NE09	Les Eyzies	
NE10	Arette	
NE11	Ainzon	
NE11*	La Almunia	
NE12	Valle Caidos	
NE13	Puertollano	
NE14	Granada	
NE15	Valkenburg	
NE16	Clermont-Ferrand	CFF
NE17	Toledo	TOL
NE18	Les Rejaudoux	RJF
NE19		LGR
NE20		ALM
NE21		MTE
NE22		MAL
NE23		FBR
NE24		ALI
NE25		EBR
NE26	Santiago de Compostela	
NE27	Evora	EVO
NE28	Zamora	
NE30	Santa Pau	
NE31	Losser	
NE32	Kootwijk	
NE33		MEM
NE34	Mettingen	
NE35	Billerbeck	
NE36	Bochum	
NE37	Ubbergen	
NE38	Dalfsen	
NE39	Krefeld	
NE40	Winterswijk	
NE41	Zyfflich	
NE42	Fort Lent	
NE51	Saint Petersburg	
NE52	Pskov	
NE53	Naroch'	
NE54	Brest	
NE55	Skvira	
NE56	Odesa	
NE57	Homyel'	
NE58	Poltava	
NE61	Nurmija@14rvi	NUR
NE62	Kangasniemi	
NE63	Kauhava	
NEA	Nenana	
NEA2	Nenana	
NEC	Neuchatel	
NED	Newark	
NEE	Needles	
NEE2	Needles Airport, Needles	
NEEM	North Greenland Eemian Ice Drilling site	
NEER	Neeritter	
NEF	NEVSHA	
NEG	NEGU Pad	
NEGI	Seborga	
NEGR	Negresti	
NEHR	Nehoiu	
NEI	Neipperg	
NEJ	Negril	
NEKE	Ethiopian Broadband Seismic Experiment	
NEL	Nelson	
NELS	Mount Nelson	
NEM	Nemuro	
NEM2	Nemuro 2	
NEMQ	Nemaska	
NEN	Nelson	
NENM1	Neno	
NEO	Neokhori	
NEST	Nestorio	
NEU	Neuchatel	
NEUB	Neuenburg	
NEUQ	Neuquen (mine)	
NEV	Hard Times	
NEVI	Neviano degli Arduini	
NEVR	Nevel'sk	
NEW	Newport	
NEWG	New Galloway	
NEWO	Newport DOGAMI SMO	
NEY	Neytrino	
NEZ	North Egmont	
NFIM	Farallon Islands	
NFK	Norfolk Island	
NFP	NAFPAKTOS	
NFRM		FTR
NG-	Niagara	NG-WS
NGA	Galoa	
NGAL	NGAL	
NGC	Ngoundere	
NGH	National Guard	
NGHE	Neginohata	
NGI	Nagai Island	
NGJ	Na-gawa	
NGJA	Assam	
NGJI	Ngawi	
NGL	North Gasline	
NGLR	Nogliki	
NGLS	Nogliki	
NGMR	NGMR	
NGN	Nagano	
NGNA	Nongstoin	
NGO	Nago	
NGO1	Nago	
NGOR	Nagor	
NGP	Nagpur	
NGR	North Grip Drilling Camp	
NGRK	Negar Kerman	
NGRS	Nagornyi	
NGRZ	Ngongotaha	
NGS	Nagasaki	
NGSJ	Nagasakinomozaki	
NGT	Nagatsuro	
NGVM		GVR
NGWR	NGWR	
NG-WS	Niagara	
NGZ	Ngauruhoe	
NH1	Sanbornton	
NHA	Nha-Trang	
NHB	Bethesda--National Naval Medical Center	
NHBM	Healdsburg	
NHC	New Haven	
NHDH	Xindian District, New Taipei City	
NHDN	Nehbandan	
NHES	Novosibirsk, NHES, Russia	
NHF	Nausori Highlands	
NHIL	New Haven	
NHIM	Nhimo	
NHM	Niihama	
NHMM	Mt Hamilton Road	HMR
NHN	Nahan	
NHS	North Hampton	
NHSA	Nikolaevsk School	
NHSC	New Hope	
NHSM	Mount Saint Helena South	
NHW	Xinwu Township	
NIA	Norfolk Island	
NIAN	Nian	
NIB	Nibetsu	
NIC	Nicosia	
NICEF	Mont Chauve - France	
NICH	Los Niches	
NICHA	Nichawak Mountain	
NICO	Nicoya	
NIDE	Nigde/Merkez-Gumusler	
NIE	Niedzica	
NIG	Nigde	
NIHS	Ingelmoor High School	
NII	Niigata	
NIIJ	Niigata 2	
NIK	Nikolski	
NIKH	Nikolski High Hill	
NIKO	Nikolski	
NIKU	Nikkaluokta	
NIL	Nilore	
NIMB	Iron Mountain	
NIN	Ninilchik One	
NINA	Atacazo Ninahuilca	
NING	Damshung	
NINI	Niniconang	
NIS	Nissan Island	
NIS1	Nisyros Isl.	
NIS2	Nisyros Isl.	
NIS3	Nisyros Isl.	
NIS4	Nisyros Isl.	
NISR	Nisiros	
NISS		
NIU	Niumate	
NIUE	Niue	
NIW1	Wetzens (Niawier)	
NIW2	Wetzens (Niawier)	
NIW3	Wetzens (Niawier)	
NIW4	Wetzens (Niawier)	
NIZ	Nizh Angarsk	
NJ2	Nanjing	
NJI	Nanjing	NAN
NJJ	Nii jima	

Code	*Station Name*	*Other*
NJJJ	Nii jima 2	
NJOM	Njombe	
NJS	Nagarjunasagar	
NJW	Norris Junction	
NKA	Nikishka	
NKB	Nel'koba	
NKC	Novy Kostel	
NKE	Nake	
NKI	Nikolski	
NKK	Na'kalak'ari	
NKL	Nikolayevsk	
NKM	Nakhla	
NKME	Niksic	
NKP	New Kensington	
NKR	Nakanohara	
NKS	Nakayama Pass	
NKT	Nankipoo	
NKY	Niksic	
NL-	Nazlini	NL-AZ
NL2	Nazlini	
NL2AZ	Nazlini	
NL9	Nola	
NLAI	Namlea	
NL-AZ	Nazlini	
NLC	Nalytchevo	
NLG	Nalgonda	
NLHM	Lake Herman	
NLIB	Nice, Liberation	
NLLB	Nanaimo Lost Lake,BC	
NLM	Maryland--Naval Ordinance Lab	
NLNM		LOC
NLO	Nicolai Mountain	
NLU	North Lily Mine	
NLW	Nelson Butte	
NLWA	Neilton Lookout	
NLY	Nelyaty	
NLYR	Nelyaty	
NMA	Nantucket	
NMA1	Nemea	
NMA2	New Magadan Station 2	
NMAN	Kulet Umm Tiheiwat	
NMC	Nine Mile Canyon	
NMCC	Northern Marianas College	
NMCM		NMC
NMCNC	Mill Creek, Sonoma County	
NMD	New Madrid	
NMEM	New Madrid Sch	
NMEZ	Namu Road	
NMF	Viti Levu	
NMH	New Mexico Highlands	
NMHM	Mount Saint Helena	
NMHZ	Naumai	
NML	Miaoli City	
NMLH	Miaoli	
NMM	New Madrid	
NMMO	New Madrid	
NMN	Nasa Mountain	
NMO	Norman	
NMR	Nemuro--Hokkaido University	
NMS	Namosi	
NMSQ	Nemaska Station	
NMTM	Middletown	
NMUT	North Mineral Mountain	
NMWM	Mark W Springs	MAC
NMXM	Mix Canyon Road	MIX
NNA	Nana	
NNAL	NNAL	
NNJ	Nakano	
NNK	Norton	
NNL	Ninilchik	
NNMR	NNMR	
NNR	Narayananagar	
NNS	Nan Shan	
NNSB	Datong	
NNSH	Datong	
NNT	Nongplab	
NNZ	Nelson	
NOA	NORSAR Array Beam Reference Point	NB2
NOB	Nobeoka	
NOC	Noumea	
NOCG	North-of-Casa	
NOCI	Noci	
NOD	Norderasen	
NODN	Nodinka Narrows	
NOH	Ma'ale Noah	
NOJ	Nojiri	
NOL	New Orleans	
NOLM	Olema	
NOM	Nome	
NONG	Nongkai	
NONO	Nono	
NOP	Nopah Range	
NOQ	North Oquirrh Mountains	
NOR	Nord	
NORC	Norcasia	
NORES	NORESS Array Beam Reference Point	
NORI	Noerdlinger Ries-Bissingen	
NORM	Noumea	
NOSH	Now Shahr	
NOTT	Nottersdorf	
NOU	Noumea	
NOUC	Port Laguerre	
NOUE	Nou	
NOV	Novara	
NOV1	NOV1	
NOV2	NOV2	
NOV3	NOV3	
NOV4	La Tour-de-Pellz	
NOVE	Novellara	
NOVS	Nova Varos 1	
NOWN	Norman Wells, NWT	
NOWS	NOAA--Sand Point	
NOZ	North Gisborne	
NP-	North Pole	NP-NT
NPA	Nampula	
NPGB	Novo Progresso	
NPH	North Pit	
NPI	North Pocatello Valley	
NPL	Naples	
NPM	North Pahute Mesa	
NPN	North Pahroc Range	
NP-NT	Mould Bay	
NPNY	Mohonk Preserve	
NPO	Eielson Array	
NPOC	North of Pu'u O'o Crater	
NPOR	Nice, Eglise du Port	
NPPZ	NPP	
NPR	Napier	
NPRI	New Reactor	
NPRM	Point Reyes	
NPS	Neapolis	
NPS1	Neapolis Laconias	
NPT	Nicholson Point	
NPZ	New Plymouth	
NQBME	Bureau des Mines et l'Energie	
NQUSE	US Embassy, Port-au-Prince	
NQWLB	Fermate	
NR-	Niobrara River	NR-NB
NRA	North River	
NRA0	NORESS Array Site A0	NORES
NRA1	NORESS Array Site A1	
NRA2	NORESS Array Site A2	
NRA3	NORESS Array Site A3	
NRAU	Nora	
NRB1	NORESS Array Site B1	
NRB2	NORESS Array Site B2	
NRB3	NORESS Array Site B3	
NRB4	NORESS Array Site B4	
NRB5	NORESS Array Site B5	
NRC1	NORESS Array Site C1	
NRC2	NORESS Array Site C2	
NRC3	NORESS Array Site C3	
NRC4	NORESS Array Site C4	
NRC5	NORESS Array Site C5	
NRC6	NORESS Array Site C6	
NRC7	NORESS Array Site C7	
NRCA	Norcia	
NRD	Nordlingen	
NRD1	NORESS Array Site D1	
NRD2	NORESS Array Site D2	
NRD3	NORESS Array Site D3	
NRD4	NORESS Array Site D4	
NRD5	NORESS Array Site D5	
NRD6	NORESS Array Site D6	
NRD7	NORESS Array Site D7	
NRD8	NORESS Array Site D8	
NRD9	NORESS Array Site D9	
NRDL	Niedersach Riedel	
NRE0	NORESS Array Site E0	
NRFK	Norfolk	
NRGR	Nerungri	
NRI	Noril'sk	
NRIK	Noril'sk	
NRIL	Noril'sk	
NRIS	Noril'sk	
NRJ	Nirehara	
NRK	Nurek	
NRKZ	NAREK	
NRL	Washington--Naval Research Laboratory	
NRM	North Rainier Mesa	
NRME	Naramoto	
NRMH	Kita-Gairin	
NRMS	Noranda	
NRN	Naryn	
NR-NB	Niobrara River	
NROC	Nice, Saint-Roch	
NRR	North Reno	
NRS	Narsarsuaq	
NRT	Northfield	
NRTH	North beach	
NRTU	Norrtaelje	
NRY	Nirayama	
NRZ	Ngariki Road	
NSAL	Nisos Salamina	
NSC	North Stonington	
NSC3	Nusco	
NSD	Nasudden	
NSH	Neshkan, Chukotka	
NSH2	Neshkan	
NSHM	Saint Helena Road	
NSI	Nishiizu	
NSIK	Nasik	
NSK	Sanguang	
NSKD	NSKD	
NSKO	Neskantaga (Lansdowne House)First Nations Ontario	
NSLM	New Salem	
NSLU	Nyzhne Selyshche	
NSP		
NSPM		SNT
NSR	Nassriya	
NSS	Namsos	
NST	Nakhon Sawan	
NSTT	Nanjuang	
NSU	North Stansbury	
NSW	Nakanosawa	
NSY	Sanyi	
NT-		NT-NV
NT13	Thirsty	
NT2		NT2NV
NT2NV	Nevada Test Site	
NTA	Nevada Test Site Array	
NTBM	Tomales Bay	
NTC	Toucheng	
NTI	Nordman	
NTK	Nunatak	
NTKA	Nootka	
NTLH	Newcastle Hard Rock	
NTLS	Newcastle Soft Rock	
NTMM	Taylor Mountain	
NT-NV	Nevada Test Site	
NTP	Nathian	
NTPM	Mount Tamalpais	
NTS	Ninotsminda	
NTST	Danshui	
NTV	Nha Trang	
NTVD	Natividade - TO	
NTYM	Taylor	
NUB		
NUBE	Las Nubes	
NUE	Niue	
NUK	Nuku'alofa	
NUKS	Nukus	
NUM	Numazu	
NUNN	Nunuq Camp, NU	
NUR	Nurmija@14rvi	
NURE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
NURP	Nurpur	
NUT	Nurata	
NUUG	Nuugaatsiaq	
NUUK	Nuuk	
NUXM	Nuxco	
NV01	Mina Array Site 1	
NV02	Mina Array Site 2	
NV03	Mina Array Site 3	
NV04	Mina Array Site 4	
NV05	Mina Array Site 5	
NV06	Mina Array Site 6	
NV07	Mina Array Site 7	
NV08	Mina Array Site 8	
NV09	Mina Array Site 9	
NV1	North Anna 1	
NV10	Mina Array Site 10	
NV11	Mina Array Sites 11 and 31	
NV2	North Anna 2	
NV3	North Anna 3	
NV32	Mina Array Site 32	
NV33	Mina Array Site 33	
NV4	North Anna 4	
NV5	North Anna 5	
NV6	North Anna 6	
NV7	North Anna 7	
NVAR	Mina Array Beam Reference Point	
NVBH	Bath Hotel, Nevis	
NVDO	Nevis, Disaster Management Department Office	
NVL	N'lazarevskaya	
NVLB	Novo Lino, Alagoas, Brazil	
NVLJ	Novalja	
NVNR	Nevinnomyssk	
NVR	Nevrokopi	
NVRH	Round Hill, Nevis	
NVS	Novosibirsk	
NVSII	Novosibirsk	
NVSS	Nova Varos 2	
NVV	Nyvrovo	
NVXV	Nova Xavantina-MT	
NW2	New River	
NWA	Narrogin	NWAO
NWAO	Narrogin (SRO)	
NWC	North Woods Club	
NWEZ	Newall Road	
NWF	Wu-fen Shan	
NWL	Newcastle	
NWLT	Wulai	
NWR	Narrow River	
NWRL	North West River	
NWRM	Wright Ranch	
NY14	Universidad de la EARTH en Liberia	
NYA	Nyala	
NYAM	Volcan Nyalulag	
NYC	Charley	
NYDR	Nydri-Lefkada	
NYG	Neryungri	
NYI	Volcan Nyirag	
NYJ	Joshua Tree	
NYK	Nykoping	
NYM	Climax Mine	
NYNU	Nynaeshamn	
NYR	Receiver Site	
NYRK	Nyeri	
NYS	Syncline Ridge	
NYV	Vern	
NZB	Bigte	
NZD	Nezhdaninsk	
NZJ	Naze	
O01C	Eel River Conservation Camp, Redway	
O02C	Red Bluff	
O02D	Mt. Diablo Meridian	
O03C	Acorn Hollow, Los Molinos	
O03D	Paynes Creek	
O03E	Paynes Creek	
O04C	Chester	
O05C	Quincy	
O06A	Flanigan	
O07A	Toulon	
O08A	Rochester Mine, Lovelock	
O09A	Fish Creek Ranch, Battle Mountain	
O10A	Cortez Mining, Crescent City	
O11A	Cowboy Ranch, Jiggs	
O12A	Currie	
O13A	Hicks Ranch, Ibapah	
O15A	The Old Anderson's Place, Rush Valley	
O16A	Springville	
O17A	Robinson Place, Fruitland	
O18A	Roosevelt	
O19A	Miners Draw (BLM), Jensen	
O20A	White River City	
O21A	Pagoda	
O22A	Kremmling	
O22K	Cooper Landing	
O23A	Lake Granby, Granby	
O24A	Longmont	
O25A	Wiggins	
O26A	Horse Wrangler Ranch, Akron	
O27A	Beecher Island, Eckley	
O28A	Krutsinger Ranch, Parks	
O29A	4D Ranch, Culbertson	
O30A	MW Ranch, Wilsonville	
O31A	Woolen Ranch, Alma	
O32A	Brockman Farm, Red Cloud	
O33A	Hebron	
O34A	Beatrice	
O35A	Humboldt	
O36A	Bolckow	
O37A	Wolven Farm, McFall	
O38A	Galt	
O39A	Kirksville	
O40A	La Belle	
O41A	Passleys Farm, La Prairie	
O42A	Bath	
O43A	Sugar Creek Farm, Atlanta	
O44A	Mansfield	
O45A	Potomac	
O47A	Sheridan	
O48A	Farmland	
O49A	Covington	
O50A	Cable	
O51A	Pataskala	
O52A	Adamsville	
O53A	New Philadelphia	
O54A	Avella	
O55A	Ligonier	
O56A	Blue Knob State Park, Imler	
O57A	Amberson	
O58A	Lewisberry	
O59A	Robesonia	
O60A	Telford	
O61A	Allentown	
O6A	E Barbuda OBS	
OA-	Oahu Island	OA-IS
OA-IS	Oahu Island	
OAK	Oakfield	
OAQ	Quito	
OAR	Oum El Arais	
OAS	Oasis	
OAT	Oat Mountain	
OAUI	Ile-Ife	
OAX	Oaxaca	
OB2NV	Oak Springs Butte	
OB3NV	Oak Springs Butte	
OBA	Oasis-Bungera	
OBB	Obsidian Butte	
OBC	Olympics--Bonidu Creek	
OBER	Oberstdorf	
OBF0	Syolatti, Pyhajoki	
OBF1	El^visluoto, Pyh^joki	
OBF2	Ylip^^, Raahe	
OBF3	Siikajoki	
OBF4	Vikkela, Lumijoki	
OBF5	Vihanti	
OBF6	Kekaj^rvi, Ylivieska	
OBF7	Kamusenper^, Kalajoki	
OBF8	Ulkokalla	
OBG	Obi Garm	
OBH	Olympics--Burnt Hill	
OBHM	Bloomer Hill	
OBI	Obihiro	
OBIP	Obispado Ponce	
OBK	Oberlin	
OBKA	Obir	
OBL	Observatory Ledge	
OBLS	Djebel Bou Ietas	
OBM	Ulan Bator	
OBN	Obninsk	
OB-NV	Oak Springs Butte	
OBO	Obock	
OBOS	Obo	
OBR	Brabster	
OBS	Ocean Bottom Seismometer	
OBSR	Observation Rock	
OBSV	Observatory	
OBY	Ambatonomby	
OBZ	Oban	
OC2	Ocos 2	
OC9	Casamicciola	
OCA	Owens Crossroads	
OCAC	Ocana	
OCBR	Ocara	
OCF	Saint Nazaire	
OCG	Ocos	
OCHM	Cohasset Ridge	
OCHR	Omchak	
OCLP	Ormoc	
OCM	Ochomogo	
OCN	Over Castle Rock	
OCO	Oklahoma City	
OCP	Olym-Cheeka Pk	
OCR	O'Connell Ranch	
OCUV	OCUMARITO	
OCWA	Octopus Mountain	
OD2	Odessa Site #2	
ODAN	Odare	
ODB	Odobesti	
ODBI	Odobesti	
ODD	Odda	
ODD1	Odda	
ODEU	Stanfors	
ODJA	Bouhanifia	
ODK	Oud Koma	
ODNJ	Ogdensburg	
ODS	Odessa	
ODSE	Onioshidashi	
ODZ	Otahua Downs	
ODZI	Dziouia	
OFA	Oficina Alemania	
OFB	Ocean Falls	
OFBG	Offenburg	
OFD	Oued Fodda	
OFFI	Offida	
OFK	Olympics--Forks	
OFR	Olym-F Res Ctr	
OFRI	'Ofer	
OFU	Ofunato	
OFUJ	Ofunato	
OG01	Vacheresse	
OG02	Monnetier-Mornex	
OG03	Samoens	
OG04	La Clusaz	
OG05	Jujurieux	
OG06	Moye	
OG07	Sainte-Reine	
OG08	Commelle	
OG09	Saint-Thibaud-de-Couz	
OG10	Saint-Etienne-de-Cuines	
OG11	Montagny	
OG12	Villaroger	
OG13	Choranche	
OG14	Saint-Maurice-en-Valgodemard	
OG15	Briangon	
OG16	Combovin	
OG17	Prunihres	
OG18	Albannette	
OG19	Saint-Julien-en-Beauchene	
OG20	Riallon	
OG21	Saint-Cripin	
OG22	Abries	
OG23	Tende	
OG24	Aussois	
OG25	Le Caire	
OG26	St.-Nazaire-Desert	OCF
OG27	Meolans	

Code	Station Name	Other
OG28	Izon-la-Bruisse	
OG29	Digne	
OG30	Villeneuve d'Entraunes	
OG32	Castellane	
OG33	Roure	
OG34	Musihges	
OG35	Corcelles	
OGA	Obergurgl	
OGAG	Argentiere	
OGAUY	Aigu^¡	
OGD	Ogdensburg	
OGDI	Digne	
OGE	Ogeu	
OGH	Oga	
OGMO	Fort Saint-Gobain, Modane	
OGNE	Ogallala	
OGOM	Van Goodin Ranch	
OGRR	Ongureny	
OGS	Ogasawara	
OGSI	Sixt	
OGSM	Saint Maurice de Rotherens	
OGSO	Ohio Geological Survey, Columbus	
OGTN	Old Graveyard	
OGU	Ogden Bay	
OGWZ	Otaki Gorge	
OHAK	Old Harbor	
OHC	O'Higgins	
OHCM	Honcut	
OHD	Ohdaira	
OHH	Osh	
OHJ	Ohira	
OHLN	Ohlone	
OHM	Omihachiman	
OHO	Hoy	
OHR	Ohrid	
OHRN	Oohira	
OHS	Orange Hill	
OHTN	Owl Hoot	
OHTR	Okhotsk	
OHW	Oak Harbor	
OHWZ	Ohakea	
OIA	Oishiyama (A)	
OIB	Oishiyama (B)	
OIC	Oishiyama (C)	
OII	Orti	
OILH	Oil house	
OIS	Oishiyama	
OIT	Oita	
OIT2	Oita 2	
OIW	Oiwake	
OIZ	Oio	
OJBR	Djebel Berber	
OJC	Ojcow	
OJD4	Ozhidaevo	
OJEN	Ojen	
OJGS	Djebel Guires	
OJOS	Ojo de Agua	
OK001	Jones High Sch.	
OK002	Wilshire Harrah	
OK003	Hefner Road	
OK004	Okla Sci Mus	
OK005	Luther M School	
OK006	Choctaw High	
OK007	Harrah City Hall	
OK008	Spencer City Hall	
OK009	Oakdale Elementary Sch.	
OK020	N3440 Road, Meeker	
OK021	N3530 Road, Sparks	
OK022	N3560 Road, Prague	
OK023	East Waterloo Road, Luther	
OK024	West corner E0890 Road	
OKA	Okayama	
OKA1	Okayama	
OKA2	Okayama 2	
OKAH	Ooka	
OKAK	Okmok	
OKB	Okabe	
OKC	Ostrava-Krasne	
OKCB	Cheongsan-myeong	
OKCD	Okmok Cone D	
OKCE	Okmok Cone E	
OKCF	Okmok Cone F	
OKCFA	Oklahoma City	
OKCSW	OKLAHOMA CITY ARRAY SWEETHEART OKLAHOMA USA	
OKCZ	Okains Bay	
OKEB	Okgye-meyeon	
OKER	Okmok East Rim	
OKFG	Magazine Ridge	
OKG	Oak Grove	
OKGL	Djebel Kef Guellal	
OKH	Okha	
OKHR	Okhotsk	
OKHT	Okhotsk	
OKI	Okijuku	
OKID	Okmok Mt. Idak	
OKJL	Djebel Kodjel	
OKL	Od Khalfella	
OKN	Okuno	
OKNC	Okmok New Cone D	
OKP	Okiep	
OKRE	Okmok R'deer Pt	
OKS	Okushiri	
OKSO	Okmok South	
OKSP	Okmok Steeple Pt	
OKTD	Tabubil	
OKTU	Okmok Mt. Tulik	
OKWE	Okmok W'ng Wall	
OKWR	Okmok West Rim	
OKY	Okuyama	
OLAR	Ola	
OLB	Olbia	
OLC	Olema	NOLM
OLCH	Olmue	
OLDB	Oldbury-Upon-Severn	
OLDS	OLDS	
OLEF	Ile d'Oleron	
OLF	Olofstrom	
OLFT	Oleftalsperre	
OLG	Olintepeque	
OLGA		
OLHC	Oulhaca	
OLIL	Olney	
OLK	Olkaria	
OLKF	Oulanka, Finland	
OLL	Ollague	
OLLA	Las Ollas	
OLMR	Olekminsk	
OLO	Oologah	
OLQ	Olympics--Lake Quinault	
OLT	Olot	
OLW	Olympia	
OLWK	Olkaria West	
OLY	Olyphant	
OLYC	Mount Olympus	
OMA	Omae zaki	
OMCO	Orchard Mesa	
OME	Ometepe	
OMET	Metahra	
OMID	Djebel Midouna	
OMJ	Ohmine	
OMM	Old Mammoth Mine	
OMMB	Old Mammoth Mine - surface	
OMOL	Omolon, Chukotka	
OMP	Cagayan Oro	CGP
OMRZ	Omania	
OMS	Omsukchan	
OMW	Omak	
OMWY	Oxenhope Moor	
OMZ	Oamaru	
ON2	Olympics--North River	
ONA	Onahama	
ONAJ	Iwakimizuishiyama	
ONAU	Onsala	
ONCR	Oncesti	
ONE	Onerahi	
ONF	Office Forets	
ONG	Ongoro	
ONH	Oakhill	
ONHA	San Felipe O^–a, Saraguro	
ONI	Oni	
ONO	Onokovtsy	
ONR	Olympics--North River	
ONRN	Ngamring, Xizang Zizhiqu	
ONSU	Onsala	
ONTN	Oneida	
ONTNC	Ouen Toro	
ONTR	Ontario (NY)	
ONTRN	Noumea	
OO-	Oslo	OO-NW
OOD	Oodnadatta	
OOM	Omiya	
OO-NW	Oslo	
OOS	Ooshika	
OOT	Ootomari	
OOW	Octopus West	
OPA	Opana	
OPAM	San Salvador	
OPC	Olympic Penn College CREST BB SMO	
OPL	Opal Mound	
OPLO	Oploo	
OPO	Ambohidratompo	
OPP	Oppenau	
OPPE	Oppeano	
OPRZ	Ohinepanea	
OPT	Oil Point	
OR-	Orlando	OR-FL
OR1	Oriolo Calabro	ORI
OR2	Orenburg-2	
OR3	Orenburg-3	
ORA	Oran	
ORAM	Rattlesnake Point	
ORB	Orbe	
ORBT	Orbita	
ORC	Owens River	
ORC1	Okavango Research Center	
ORCC	Oricopia Mountain	
ORCD	Orcadas	
ORCV	Isla La Orchila	
ORD	Ordubad	
ORDF	Ordiarp	
ORDU	Ordu-Boztepe	
ORE	Reay	
OREN	Orenkoy-Mersin	
OR-FL	Orlando	
ORG	Organya	
ORGA		
ORGV	Orgiva	
ORH	Orhaniye	
ORHO	Orleans, Heritage Park	
ORHR	Oreshnoe	
ORI	Oriolo Calabro	
ORIF	Oris-en-Rattier	
ORIO	Orleans, Innes Road, Ontario	
ORIV	Oritupano	
ORJ	Oura	
ORK	Orkelljunga	
ORL	Orlik	
ORLT	Orhaneli	
ORNG	Orange	
ORNO	Orono	
ORO	Oropa	
ORR	Orenburg	
ORT	Oak Ridge	
ORTC	Ortega, Tolima	
ORTS	Orotukan	
ORV	Oroville	
ORX	Oropa	
ORY	Orie	
ORZI	Orzinuovi	
OSA	Osaka	
OSB	Orangeburg	
OSBY	Osborn	
OSC	Orangeburg	
OSC1	CSNet OBS 1	
OSC2	CSNet OBS 4	
OSCH	Osorno	
OSCM	Ostuacan	
OSD	Olympics--Snow Dome	
OSG	Oseberg A Platform	
OSGS	Os	
OSH	Oshima	
OSHJ	Oshima	
OSI	Osito Audit: Castaic Lake Dam, Castaic	
OSIN	Kakessio	
OSK	Osaka	
OSKI	Oschiri	
OSKU	Oskarshamn	
OSL	Oslo	
OSLO	Ohio State University--Lima	
OSM	Ostula	
OSML	Os-Marcillon	
OSMO	Ohio State University--Mansfield	
OSMR	Ostromysovka	
OSMT	Osmaniye	
OSNY	Ossining	
OSP	Olympics--Sooes Peak	
OSPF	L'Ospedale	
OSR	Olympics--Salmon Ridge	
OSS	Ova Spin	
OSSF	Osses	
OSSR	Ossora	
OST	Stronsay	
OSTC	Ostas	
OSTM	Stimpson Lane	
OSTU	Oestervaala	
OSUM	Sutter Buttes	
OSUO	Ohio State University	
OSV	Paramo de la Osa	
OSWG	Oswego	
OT001	1031 Sheenboro Crescent, Ottawa	
OT002	1514 Bourcier, Ottawa	
OT004	16, Winslow Court, Ottawa	
OT006	959, Brant, Ottawa	
OT008	2758 Massicotte Lane, Ottawa	
OT011	OT011	
OT012	7 Observatory Cres., Ottawa	
OT2	Othello	
OT3	Othello 3	
OTAV	Otavalo	
OTAZ	Otara	
OTBB	Blackburn lab bldg12	
OTBM	Table Mountain	
OTER1	Otterbach 1 (BS)	
OTER2	Otterbach 2 (BS)	
OTGH	Glebe high school	
OTH	Othello	
OTI	Otiai	
OTISU	ISU Olt	
OTK	Orto-Tokoy	
OTL	Oterleek	
OTL1	Oterleek	
OTL2	Oterleek	
OTL3	Oterleek	
OTL4	Oterleek	
OTLM	Tlemcen	
OTNM	Canadian Museum of Nature	
OTO	Tongue	
OTP	Otepa	
OTPR	Odiongan	
OTR	Olympics--Tyee Ridge	
OTRO	Otter Rapids	
OTRP	Odiongan	
OTSS	Djebel Tessala	
OTT	Ottawa	
OTTER	Otterbach	
OTUK	Ortayu	
OTVZ	Oturere	
OTW	Orongorongo Tunnel	
OTWM	No. 579 Westminster Ave.	
OTZ	Ortiz Mountain	
OUA	Ouanaham	
OUAO	Ohio University	
OUENC	Ouen Island, New Caledonia	
OUF	Merijarvi	
OUFX	Oulainen	
OUJ	Oujda	
OUK	Oukaimeden	
OUL	Oulu	
OUR	Ouranopolis	
OUT	Outlet	
OUZ	Omahuta	
OV1	Vesuviano	OVO
OVA	Ovalau	
OVCH	Ovalle	
OVE	Overton	
OVEH	Oceanview Est	
OVMT	Ovando	
OVO	Vesuviano	
OWA	Owase	
OWAM	Wyandotte	OWYM
OWD	Renai	
OWE	Westray	
OWUT	Old Woman Plateau	
OWYM	Wyandotte	
OXBJ	Oaxaca	
OXD	Oxford	
OXF	Oxford	
OXM	Oxtotitlan	
OXMT	Ox Mountain	
OXX	Oaxaca	
OXZ	Oxford	
OYM	Oyama	
OYT	Oya 1	
OYT2	Oya 2	
OZAP	Van/˜zalp-Merkez	
OZB	Mount Ozzard	
OZC	Ocozocoautla	
OZE	Ozernaya	
OZHR	Ozhidaevo	
OZLJ	Ozalj	
OZOL	Ozolo	
OZRR	Ozero (Kronotsky)	
OZUR		
P01C	Double 8 Ranch, Willits	
P05C	Yuba Gap, Truckee	
P06A	Stead Airport, Stead	
P07A	Fallon	
P08A	Dixie Valley	
P09A	Austin	
P10A	Eureka	
P11A	Circle Ranch, Eureka	
P12A	McGill	
P13A	Bates Ranch, Gandy	
P14A	Drum Mountains (BLM), Topaz	
P15A	Leamington	
P16A	Fountain Green	
P17A	Butcher Ranch, Price	
P18A	Preston Nutter Ranch, Sunnyside	
P19A	Cripple Cowboy Ranch, Baxter Pass	
P20A	De Beque	
P21A	Newcastle	
P22A	Eagle	
P23A	Jefferson	
P24A	Kohler Place, Littleton	
P25A	Willow Gulch Bison Ranch, Deer Trail	
P26A	Davis Ranch, Arriba	
P27A	Ficken Ranch, Kirk	
P28A	Saint Francis	
P29A	Atwood	
P30A	Selden	
P31A	Stockton	
P32A	Huiting Farm, Downs	
P33A	Williams Farm, Concordia	
P34A	Walnut Farm, Randolph	
P35A	Duane Minner, Soldier	
P36A	Good Intent, Atchison	
P37A	Lathrop	
P38A	Dawn	
P39A	Salisbury	
P39B	Salisbury	
P403	Sandy Floe Quarry	
P40A	Paris	
P41A	Barry, Barry	
P42A	Winchester	
P43A	Skaggs, Pawnee	
P44A	Sand Creek, Windsor	
P45A	Graceland, Paris	
P46A	Rosedale	
P47A	Martinsville	
P48A	Milroy	
P49A	Miami Univ. Ecology Research Center	
P50A	Jamestown	
P51A	Williamsport	
P52A	Corning	
P53A	Whipple	
P54A	Burton	
P55A	Reedsville	
P56A	Dayton Farm, Ripley	
P57A	Homestead Farm, Martinsburg	
P58A	Pank, Wackersville	
P59A	Jarrettsville	
P60A	Greenville	
P61A	Hammonton	
PA01	PA01 North	
PA02	PA02 Ocean	
PA03	PA03 Flamable	
PA04	PA04 Cage	
PA05	PA05 Willingdon	
PA12	PA12 Sannich	
PAA	Panguna	
PAAG	Paamiut	
PAAR	P'arak'ar	
PAB	San Pablo	
PABE	Paberze	
PAC	Palo Alto--Branner	
PAC1	Pacto, Para^›so	
PACA	Pacayal	
PACB	Port Alice, BC	
PACH	Papudo	
PACHH	PACH	
PACI	Pancar Gunung	
PACM	Arenal	
PACP	Pacheco Peak	
PACT	Alcochete	
PACW	Pacific Creek	
PAD	Padua	
PADM	Adeladia	
PAE	Paea	
PAF	Port-aux-Francais	
PAG	Le Parnasse	
PAGB	Antelope Grade	
PAGF	Fort de Pagny la Blanche C^˙te (52)	
PAGM	Antelope Grade	
PAGN	Pagan	
PAGS	Pennsylvania Geol. Surv.	
PAGU	Agualva, Azores	
PAGV	Pagan Volcano	
PAGZ	Pagadian	
PAH	Pahoa	
PAHR	Pah Rah Range	
PAHZ	Panekirikiri	
PAI	P Aileron	
PAIG	Paliouri	
PAJ	Port Antonio	
PAJU	Pajala	
PAK0	Pari Array Site 0	
PAKY	Paducah	
PAL	Palisades	
PAL1	Palomo	
PAL2	UHE Estreito - MA/TO	
PALA	Palora	
PALB	Palub	
PALC	Alcoutim	
PALK	Pallekele	
PALM	Palmichal	
PALN	Palana	
PALO	Palomo	
PALP	Palanan	
PALR	Palma Real	
PALS	Palana	
PALU	Palau	
PALV	Tres Palos	
PALZ	Palazzo San Gervasio	
PAM	Palermo	
PAMA	Santo Amaro	
PAMC	Pamplona, Colombia	
PAMF	Morne Pavillon	
PAN	Panimavida	
PAND	Andorre	
PANG	Puerto Angel	
PANH	Panhandle Gap, Mount Rainier	
PANI	Panarotta	
PANIX	Pigniu (Panix)	
PANJ	Princeton	
PANM	San Antonio Reservoir	
PANO	Nakornpanom	
PANR	Panormos, Dorida, Greece	
PANV	Panamint Range	
PAO	Baotou	BTO
PAOL	Paolisi	
PAP	Pandan	
PAPH	Port-au-Prince	
PAPM	Alder Peak	

Code	*Station Name*	*Other*
PAR	Paris	
PARA	Parapanda	
PARAL	Paralimni	
PARB	Paraibuna	
PARC	Parchiule	
PARD	Parod	
PARM	Anticline Ridge	
PARMO	Parma	
PARN	Parndana	
PARR	Paradise	
PART	Garmisch-Partenkirchen	
PARV	Pariaguan	
PARZ	Papamoa	
PAS	Pasadena	
PASC	Pasadena Art Cn	
PASE	Minerbio--Passere	
PASG	PASIGHAT	
PASI	Pasiripis	
PAST	Pastocalle	
PAT	Patras	
PAT1	Patacocha	
PAT2	Paterson 2	
PAT4	Patras	
PAT5	Rio Patras	
PATA	Patacocha	
PATB	Patos, Paraiba, Brazil	
PATCX	Punta Patache	
PATO	Ponte Alta do Tocantins	
PATS	Pohnpei	
PATW	Paterson	
PATY	Pattaya	
PATZ	Paeroa	
PAU	Pauzhetka	
PAULI	Pauline	
PAUV	EL PAUJM	
PAV	Pavia	
PAVA	Las Pavas	
PAWZ	Paruwai Farm	
PAX	Paxson	
PAY	Chiapas	
PAYA	Payao	
PAYG	Puerto Ayora	
PAYL	Puyallup School ANSS-SMO	
PAYV	Puerto Ayacucho	
PAZ	Puerto Azul	
PB-	Parsons	
PB01	IPOC Station PB01	
PB02	IPOC Station PB02	
PB03	IPOC Station PB03	
PB04	IPOC Station PB04	
PB05	IPOC Station PB05	
PB06	IPOC Station PB06	
PB07	IPOC Station PB07	
PB08	IPOC Station PB08	
PB09	IPOC Station PB09	
PB10	IPOC Station PB10	
PB11	IPOC Station PB11	
PB12	IPOC Station PB12	
PB13	IPOC Station PB13	
PB14	IPOC Station PB14	
PB15	IPOC Station PB15	
PB16	IPOC Station PB16	
PBA	Port Blair	
PBAR	Barrancos	
PBC	Punta Burica	
PBCC	Pribram	
PBDV	Barranco-do-Velho	
PBEJ	Beja	
PBF	Porcher Bluff	
PBG	Petersburg	
PBG1	Petersburg	
PBIG	Penon de los Banos, D. F.	
PBIS	Biscoitos	
PBJ	Presa Benito Juarez	
PBKI	Pangkalan Bun	
PBKT	Sadao Pong	
PBMO	Poplar Bluff	
PBNC	Punta Burica Nicaragua	
PBO3	Pozo tres de Borinquen	
PBOI	Pico dos Bois	
PBPM	Bitterwater Pump Station	
PBQ	Poste Baleine	
PBR1	Peterborough	
PBRG	Braganca	
PBRM	Bassetti Ranch	
PBS	Pigeon Bay	
PBSI	Pulau Batu	
PB-TN	Parsons	
PBU	Perry Basin	
PBUR	Paburg¯	
PBV	Petersburg	
PBVM	Pinon	
PBWM	Bitterwater Creek	BTW
PBX	Punta Banda	
PBYM	Bryson	
PC-	Picayune	PC-MS
PCA	Pinnacle	
PCA1	Carrot	
PCAB	Cabril	
PCAL	Alvares	
PCALD	Caldeiras da Ribeira Grande	
PCAM	Castle Mt.	CTM
PCAN	Candelaria	
PCAS	Casmilo, Condeixa	
PCB	Port Clements	
PCBI	Pancar Batu	
PCBM	Cambria	
PCBR	Castelo Branco	
PCC	Pilarcitos Creek	
PCCM	Crazy Canyon	
PCDR	Punta Cana, DR	
PCED	Cedros	
PCEP	Pierce County East Precinct	
PCF	Pomona	
PCFR	Pierce County Firing Range	
PCG	Pacaya	
PCGM	Cerro Alto Campground	
PCH	Pirque	
PCHF	Pas de la Coche	
PCHI	Peechi	
PCHP	Portachuelo	
PCHR	PETRACHIOAIA	
PCHS	Pakhachi	
PCI	Palu	
PCID	Pole Creek	
PCIG		
PCJ	Portland Cottage	
PCJI	Pacitan	
PCL	Pacheco Lake	
PCM	Pelee Case Petit	
PCMB	Pacaembu	
PCMD	Pierce County Mountain Detachment	
PCMM	Cholame Hills	
PC-MS	Picayune	
PCMT	Pistol Creek	
PCN	Piacenza	
PCND	Candelaria	
PCNE	Platte Center	
PCNG	Congro	
PCNV	San Giusto Canavese	
PCO	Ponca City	
PCOI	Coimbra	
PCON	Cinco Dias	
PCOU	Corrie	
PCP	Piancastagn	
PCPH	Palayan	
PCR	La Plaine Cafres	
PCRM	Curry Mountain	
PCRO	Pietralacroce	
PCRP	Carpino	
PCRV	Puerto La Cruz	
PCRZ	Pico da Cruz	
PCS	Paracas	
PCT	Pak Chong	
PCTB	Pacatuba, Sergipe, Brazil	
PCU	Price	
PCVE	Castro Verde	
PCY	Pole Canyon	
PCYT	Pengchaiyu	
PD-	Princeton	PD-BC
PD01	Pinedale Array Site 1	
PD02	Pinedale Array Site 2	
PD03	Pinedale Array Site 3	
PD04	Pinedale Array Site 4	
PD05	Pinedale Array Site 5	
PD06	Boulder Array	BW06
PD07	Pinedale Array Site 7	
PD08	Pinedale Array Site 8	
PD09	Pinedale Array Site 9	
PD10	Pinedale Array Site 10	
PD11	Pinedale Array Site 11	
PD12	Pinedale Array Site 12	
PD13	Pinedale Array Site 13	
PD31	Pinedale Array Site 31	PDAR
PD32	Pinedale Array Site 32	
PDA	Ponta Delgada	
PDAR	Pinedale Array Beam Ref. Point	
PDB	Pedro Bay	
PD-BC	Princeton	
PDC	Pieve di Cadore	
PDCR	Pedra do Cavalo	
PDD	Puy-de-Dome	
PDDM	Pindari Dam	
PDEM	Puerto del Eden	
PDG	Podgorica	TTG
PDGK	Podgornoye	
PDHT	Panda Hill	
PDI	Porto d'Ischia	
PDIAR	Pinedale Infrasonic Array Beam Reference Point	
PDK	Podkova	
PDKS	Podkum	
PDMC	Merrill Creek	
PDMCI	Parker Dam,Lake Havasu City	
PDMV	Paramo Marino	
PDNS	Pedernales	
PDO	Prodromos	
PDP	Pandan	
PDPR	Patillas Dam, Puerto Rico	
PDRB	Porto dos Ga˜˜chos, MT	
PDRG	Pedrog??o	
PDRM	Domengine Ranch	
PDSI	Padang	
PDTN	Piedmont	
PDUI	Pindiu	
PDY	Peleduy	
PDY01	Peleduy Array Site 01	
PDY02	Peleduy Array Site 02	
PDY03	Peleduy Array Site 03	
PDY04	Peleduy Array Site 04	
PDY05	Peleduy Array Site 05	
PDY06	Peleduy Array Site 06	
PDY07	Peleduy Array Site 07	
PDY08	Peleduy Array Site 08	
PDY09	Peleduy Array Site 09	
PDY31	Peleduy Array Site 31	
PDYAR	Peleduy Array Beam Reference Point	
PE-	Pineville	PE-WV
PE1	Pezze di Greco (BR)	
PE3	Peglio	
PEA	Pea Ridge	
PEA0	opavlovsk-Kamchatskiy kiy Array Site A0	
PEA0B	opavlovsk-Kamchatskiy kiy Array site AOB	
PEA1	opavlovsk-Kamchatskiy kiy Array Site A1	
PEA2	opavlovsk-Kamchatskiy kiy Array Site A2	
PEA3	opavlovsk-Kamchatskiy kiy Array Site A3	
PEAR	Peavine Mountain	
PEB	Petersbachel	
PEB1	opavlovsk-Kamchatskiy kiy Array Site B1	
PEB2	opavlovsk-Kamchatskiy kiy Array Site B2	
PEB3	opavlovsk-Kamchatskiy kiy Array Site B3	
PEB4	opavlovsk-Kamchatskiy kiy Array Site B4	
PEB5	opavlovsk-Kamchatskiy kiy Array Site B5	
PEBM	Pemiscott Bayou	
PEC	Perris	
PECH	Pedro de Valdivia	
PECO	Prince Edward County	
PECR	Pechory	
PECU	Ecuador Network	
PECV	Mancha de Ca Pechiches	
PED	Pedro Cerda	
PEDR	Pedernales	
PEG	Perugia	PRG
PEH	Beibei	
PEI	Peine	
PEJK	Peje	
PEK	Beijing	BJI
PEL	Peldehue	
PELI	Kastamon˜—Ara^§	
PEM	Pine Mountain	
PEMC	Merrill Creek	
PEMO	Pembroke	
PEN	Pensacola	
PENC	Penc	
PENI	Pendagan	
PENM	Chiapas	
PENMO	Penman	
PENR	Ponce-Enriquez	
PENT	Pentalofos	
PEO	Puerto Escondido	
PEP	Pantabangan	
PER	Perth	
PER1	Peristeri Attica	
PERF	Col du Perthus	
PERL	Pearl BPA Site DOGAMI SMO	
PERS	Pernice	
PERT	Persembe	
PERV	Siirt/Pervari-Merkez	
PES	Peshawar	
PES2	opavlovsk-Kamchatskiy kiy Array site S2	
PESA	Pesaro	
PESTR	Estremoz	
PET	Petropavlovsk	
PET01	Itanhaem-SP	
PET1	Petalidi	
PETE	Peter Faust Dam	
PETK	opavlovsk-Kamchatskiy kiy Array site P	
PETR	Petresti	
PETRA	Petralia Soprana	
PETS	Petropavlovskoye	
PEUT	Richfield	
PEV	Pleasant Valley	
PE-WV	Pineville	
PEX	Puerto Escondido	
PEXB	Peixe	
PEZE	El Pocito	
PF-	Pickford	PF-MI
PF6	Pievefavera	
PFA	Pierce Ferry	
PFAD	Fenais da Ajuda	
PFAFF	Pfaffnau Reservoir	
PFAV	Pico das Favas	
PFB	Port Renfrew	
PFBR	Pau dos Ferros	
PFBV	Barranco	
PFCBR	Castelo Branco, Faial, Azores	
PFET	Feteiras	
PFFO	Foia	
PFH	Pahoa Fire House	
PFMC	Merrill Creek	
PFMF	Monte Figo	
PF-MI	Pickford	
PFO	Pinyon Flats Observatory	
PFPE	Pera	
PFR	Pine Flat Road	
PFSB	Sao Bartolomeu	
PFSC	Santa Clara	
PFVI	Vila Bisbo	
PG-	Prince George	PG-BC
PG2BC	Prince George	
PGA	Paragould	
PGAV	Gavieira, Arcos de Valdevez	
PGAZ	Page	
PGB	Panagyurishte	
PGBAU	Baubata	
PG-BC	Prince George	
PGBU	Glenifferbraes	
PGC	Sidney	
PGD	Poggio Sodo	
PGE	Panamint Range	
PGF	Pioggiola	
PGHM	Gold Hill	GHC
PGKAI	Kaiamu	
PGM	Pleasant Grove	
PGMAR	Marapu	
PGN3	Pignola, Italy	
PGO	Gresham	
PGOM	Puerto del Gallo	
PGOR	Pogoanele	
PGP	Puerto Galera	
PGRA	Graciosa	
PGS	Pagosa Springs	
PGVM	Portageville	
PGW	Port Gamble	
PGWM	Grace West	
PGX	Piedras Gordas	
PGY	Peter Gray Mountain	
PGZ	Pongaroa	
PH2NV	Pahute Mesa Site	
PH3NV	Pahute Mesa Site	
PH4NV	Pahute Mesa Site	
PHA	Port Heiden	
PHAM	Harlan Ranch	
PHAP	Phaplu	
PHBM	Huron Fishing Bridge	
PHC	Port Hardy	
PHCM	Hearst Castle	
PHDM	Pipehead	
PHEL	Phelps	
PHET	Kaeng Krachan	
PHFM	Heflinger Ranch	
PHG	Guadaloupe-2	
PHGM	Hog Canyon	
PHH	Puu Huluhulu	
PHI	Philadelphia	
PHID	Phidim	
PHIT	Phitsanulok	
PHL	Hel	
PHN	Pohang	
PHNC	Paralimni	
PH-NV	Pahute Mesa Site	
PHO	Puu Honuaula	
PHP	Peshkopia	
PHPM	Hope Ranch	
PHPU	Puebla	
PHRA	Phrae	
PHRM	Hernandez Valley	HVC
PHSA	Palmer High School	
PHSB	Hesperia Broadband	
PHSM	Hesperia	
PHSR	Pinarhisar	
PHUB	P'eng-hu	
PHW	Phalaborwa	
PH-WA	Pomeroy	
PHWY	Pilot Hill	
PHWY1	Pilot Hill -- Preliminary Site	
PHYB	Yellowpoint	
PI-	Pinedale	PI-WY
PI1	Pinedale	
PI2	Pinedale	
PI2WY	Pinedale	
PI3	Pinedale	
PI4	Pinedale	
PI5	Pinedale	
PI6	Pinedale	
PI7	Pinedale	
PIA	Pitten	
PIAC	Piriac/mer	
PIAM	Paiam	
PIAT	Ana Tenorio	
PIB	Pender Island	
PIC	Picacho Peak	
PICA	Picada	
PICH	Pichilemu	
PICHH	PICH	
PICO	Pico	
PICS	Picacho	
PID	Ribeirinha	
PIE	Pietermaritzburg	
PIED	Piedade	
PIEI	Pieia	
PIER	Pier 30 Seattle	
PIET	Pietralunga	
PIG	Pigeon Point	
PIGN	Pignataro Maggiore	
PII	Pisa	
PIL	Pilar	
PIM	Presa Infiernillo	
PIMB	Pitt Meadows	
PIN	Pinedale	
PINA	Piqa, Costa Abajo de Colsn	
PINB	Pinarbasi	
PINC	Pinares de Mayari	
PINE	Pine Mountain Observatory	
PINI	Pine Creek	
PINM	Pinnacle	PCA
PINNC	Pines Island, New Caledonia	
PINO	Pino	
PINOR	Pine Mountain	
PINP	Pinatubo--East Slope	
PINR	Pinar	
PINT	Los Pintados	
PINU	Pond Inlet	
PIO	Pinotepa	
PIO1	Pioraco	
PIOH	Piqua	
PIORA	Tunnel	
PIP	Pasuquin	
PIPA	Pietrapaola	
PIR	Pirmasens	
PIR1	PIREAS,	
PIR2	Faliron Pireas	
PIR3	Pireas	
PIRH	Pier house	
PIRM	Iverson Ranch	
PIS	Pisa	
PIS1	Pisayambo	
PISA	Pisayambo	
PIT	Pittsburgh	
PITA	Cotopaxi Volc (N)	
PIU	Piute Mountains	
PIV	Piva	
PIVM	Indian Valley	
PI-WY	Pinedale	
PIZC	Pizarro, Choco	
PJC	Pensacola State College	
PJD	Pedro Dome	
PJG	Potts Junction	
PJLM	Jolon Road	
PJ-PA	Pottstown	
PJRM	Jolon Road	JOL
PJUM	Juniper Ridge	
PK-	Pilot Rock	PK-OR
PK1	Gold Hill	GHC
PK2	Work Ranch	WKR
PK3	Taylor Ranch	TRC
PKA	Prieska	
PKC	Peckham Road	
PKCU	Pink Cliffs	
PKD	Bear Valley Ranch, Parkfield	
PKD1	Parkfield	
PKDT	Phuket	
PKE	Pukeiti	
PKEM	Kettleman Hills	
PKF	Parkfield Array	
PKGZ	Pakihiroa	
PKH	Park Hill	
PKI	Pulchoki	
PKIN	Phulchoki	
PKK	Porkkala	
PKKI	Palangkaraya	
PKKY	Potato Knob	
PKL	Puu Kaliu	
PKLM	Kerr Lake	
PKLO	Pickle Lake	
PKM	Mcpherson Peak, Los Olivos	
PKME	Peaks-Kenny Pk	
PKN	Parkers Pond	
PKNC	Pores Knob	
PKNY	Stone Ridge	
PKO	Pickens	
PK-OR	Pilot Rock	
PKR	Le Roux Dam	
PKRO	Pickering	
PKS2	Kecel	
PKS6	Bocsa	
PKS7	Kunszentmiklos	
PKS8	Sarbogard	
PKS9	Tamasi	
PKSC	Csakvar	
PKSG		
PKSM	Moragy	

Code	Station Name	Other
PKSN	Nyarlorinc	
PKST	T"s	
PKT	Phuket	
PKVZ	Pokaka	
PKYU	Pakayacu	
PLA	Palau	
PLA1	Pilaia Thessaloniki	
PLAC	Placanica	
PLAI	Plampang	
PLAL	Pickwick Lake	
PLAR	PLOIESTI	
PLAT	Plata	
PLAV	Platillon	
PLAY	Playas-San Antonio	
PLAZ		
PLBC	Pleasant Camp	
PLBL	Peulik Blue Creek	
PLC	Palomares Road	
PLC1	Palaiochora Chania	
PLCA	Paso Flores	
PLCV	Puerto La Cruz	
PLD	Plovdiv	
PLDF	La Plantade	
PLE	Pljevlja	
PLEC	Pleito Hills	
PLG	Polygyros	
PLH	Pulheim	
PLI	Panarea	
PLI2	Pozzilli	
PLID	Pearl Lake	
PLIG	Platanillo	
PLIO	Pelee Island, Stone Alvar Conservation Area	
PLK1	Peulik 1	
PLK2	Peulik 2	
PLK3	Peulik 3	
PLK4	Peulik 4	
PLK5	Peulik 5	
PLKI	Palangkaraya	
PLL	Puu Ulaula	
PLLN	Pollina	
PLM	Palomar	
PLMA	Palmaria, Porto Venere	
PLMC	San Jos"¹ del Palmar, Choc^‡	
PLMI	Pala-Maneri	
PLML	Palmela	
PLMR	Palmer	
PLN	Plauen	
PLO	Pochutla	
PLOM	Lone Oak Road	LRC
PLONS	Plons/SG	
PLOR	Plostina	
PLOR1	Plostina Array site 1	
PLOR2	Plostina Array site 2	
PLOR3	Plostina Array site 3	
PLOR4	Plostina Array site 4	
PLOR5	Plostina Array site 5	
PLOR6	Plostina Array site 6	
PLOR7	Plostina	
PLOU	Loures	
PLP	Palo	
PLR	Palermo	
PLR1	Paliouri	
PLRM	Palmer USGS	PMR
PLRO	Paularo	
PLS	Point Lisas	
PLT	Pilot Knob	
PLTB	Pedras Altas	
PLU	Palu	
PLUM	Mont Dore	
PLUZ	Luz	
PLV	Phu-Lien	
PLVA	Point Lookout	
PLVAM	Vidin	
PLVB	Pleven	
PLVO	Plevna	
PLVR	Palo Verde	
PLWL	Peulik Whale Mountain	
PLWZ	Palliser	
PLY	Plymouth	
PM-	Pole Mt.	PM-WY
PMA	Port Moller	
PMAFR	Mafra	
PMAN	Manadas	
PMAR	Madeira	
PMAT	Coroa da Mata	
PMB	Pemberton	
PMBI	Palembang	
PMC	Poorman Mine	
PMCB	Calebasse	
PMCH	Puerto Montt	
PMCM	McMillan Canyon	
PME	Palmer East	
PMG	Port Moresby	
PMGM	Santa Margarita	
PMGR	Mogosoaia	
PMJU	Montehunto	
PMK	Pointe Molloy	
PML	Morne Lenard	
PMLM	Mount Lospe	
PMM	Presa Malpaso	
PMMC	Merrill Creek	
PMN	Pahute Mesa	
PMNB	Patos De Minas	
PMO	Pomariorio	
PMON	Piamonte	
PMOR	Pomariorio Reef	
PMOZ	Porto Moniz, Madeira	
PMP	Pompeii	
PMPB	Monarch Peak	
PMPM	Monarch Peak	MOP
PMPS	Porto Santo	
PMPST	Porto Santo, Madeira	
PMR	Palmer	
PMRF	Poiana Mare	
PMRM	Maxey Ranch	
PMRV	Marv??o	
PMS	Palmer South	
PMSA	Palmer Station	
PMSI	Majene	
PMST	Lisbon--Monsanto	
PMSU	Muirshiel	
PMT	Pine Mountain	
PMTG	Montargil	
PMV	Pico Espejo	
PMW	Pole Mountain	
PM-WY	Pole Mountain	
PN-	Pine Creek	PN-OR
PN1	Presa Penitas 1	
PN2	Presa Penitas 2	
PN3	Presa Penitas 3	
PN4	Presa Penitas 4	PORM
PN6	Pavlof North-6	
PN7A	Pavlof North-7A	
PNA	Partacoona	
PNB	Pomio	
PNBI	Panbari	
PNC	Pine Canyon	
PNCL	Nicolau / Grandola	
PNDA	Mpanda	
PNG	Penghu	
PNH	Pitcher Mountain	
PNHZ	Pukenui	
PNI	Pinerolo	
PNIG	Pinotepa	
PNJ	Paterson	
PNK	Pinkham Creek	
PNL	Peninsula	
PNLK	Pine Lake Middle School	
PNMC	Pinto Mountains	
PNME	Penonome	
PNN	Pinnacle Mountain	
PNO	Pendleton	
PN-OR	Pine Creek	
PNP	Penuelas	
PNPO	Pukaskwa National Park	
PNR	Penrod	
PNS	Penas	
PNSH	Pansheti	
PNT	Penticton	
PNTR	Pine Nut	
PNVM	Presa Marin	
PNY	Plattsburgh	
PNZ	Plattsburgh	
PO-	Post	PO-TX
PO9	Polino	POI
POA	Poas	
POA2	Poas 2	
POA5	Poas 5	
POAT	Poatina	
POB	Polly Butte	
POB1	Observatory	
POBI	Pontebba	
POBL	Monestir Poblet	
POBM	Portage Bay	
POC	La Pocatiere	
POCA	Pocatky	
POCCA	Poleta Canyon	
POCR	Potenciana 2	
POCW	Po"¡tky	
POE	Porton East	
POF	Pofadder	
POFI	Posta Fibreno	
POG	Pongola	
POGA	Pongola	
POGM	Potrero Grande	
POH	Pohoiki	
POHA	Pohakuloa	
POHV	Veracruz	
POI	Polino	
POK	Puuokali	
POKR	Poker Plat Research Range	
POL	Pola	
POLC	Polcenigo	
POLL	Polichno	
POLO	Lamas de Olo	
POLP	Polilio Island	
POM	Pomona	
POMOR	Pomortsevo, Kuzbass, Russia	
PON	Ponce	
POND	Pondoa	
PONG	Pong	
PONT	Pont de Suert	
PONY	Stone Ridge	
POO	Poona	
POOP	Poopo	
POP	Popondetta	
POPB	Porto Primavera	
POPC	Popayan, Colombia	
POPM	Popiglio	
POPR	Popesti-Leordeni	
POR	Portland	
PORA	Boryeong	
PORM	Chiapas	
PORP	Portuguez	
PORT	Chimborazo Volcano	
POS	Porton South	
POSS	Possen	
POT	Potsdam	
POTR	Potrero Hills, Fairfield	
POTS	Potsdam Coll	
POTV	Potrerito	
PO-TX	Post	
POU	Pouilloux	
POW	Powhatan	
POWD	Powder case	
POWZ	Post Office Road	
POZO	Pozo Almonte	
PP-	Pipestone	PP-MN
PP02	Calachota	
PP03	Condor	
PP04	Saramarca	
PP05	Tocota	
PP06	Puquio	
PP07	Ayacucho	
PP08	Chalhuanca	
PP09	Villa El Salvador	
PP10	Ancon	
PP16	Cajamarca	
PP1B	Ponte de Pedra	
PPA	Pie de Palo	
PPAD	Pico dos Padres	
PPB	Philisteinsche Polder	
PPB1	Philisteinsche Polder (Bergen)	
PPB2	Philisteinsche Polder (Bergen)	
PPB3	Philisteinsche Polder (Bergen)	
PPB4	Philisteinsche Polder (Bergen)	
PPBI	Pangkal Pinang	
PPC	Pine Pass	
PPCY	Paphos	
PPD	Presidente	
PPDR	Puerto Plata	
PPE	Popeni	
PPF	PLOIESTI	
PPFM	Parkfield Array	PKF
PPH	Pasian Peak	
PPHYL	Hylton High School	
PPI	Padang Panjang	
PPK	Piper Mountain	
PPL	Puu Pili	
PPLA	Purkeypile	
PPLM	Point Pleasant	
PPLP	Puerto L^‡pez	
PPM	Popocatepetl	
PP-MN	Pipestone	
PPN	Papenoo	
PPNM	Papanoa	
PPNO	Prainha do Norte	
PPO	Portuguese Canyon 2	
PPOM	Papayo	
PPR	Puerto Princesa	
PPRM	Paso Robles	
PPS	Pierpont	
PPS1	Pattan	
PPSA	Petersburg Public Schools	
PPSI	Pulau Pagai	
PPT	Papeete	
PPT2	Papeete2	
PPTF	Pamatai, Papeete	
PPTM	Peach Tree Valley	PTV
PPU	Promontory Point	
PPXB	Puerto Pe^–asco	
PPZ	Puysegur Point	
PQ0	Cooper Hill	
PQ1	East Ridge	
PQI	Presque Isle	
PQ-ID	Preston	
PQL	Pirkuli	
PQN	Pahaquarry	
PR-	Palmyra I.	PR-IS
PR01	Verghereto (FC)	
PR02	Localit^ Poggio-Vacaldola (Sant'Agata Feltria RN)	
PR05	Cuzco--Tambomachay	
PR0R	Verkhnechusovskiye Gorodki	
PR1R	Pomanovo	
PR2R	Dobryanka	
PR3R	Kungur	
PR4R	Vlasy	
PR5R	Perm'	
PR6R	Ekimyata	
PR7R	Sarany	
PRA	Prague	
PRAC	Prado	
PRAF	Pradon	
PRAM	Casa Patricio Ramon - Quito	
PRAR	RASCA	
PRAV	El Prado	
PRC	Point Reyes	
PRCH	Ribeira Ch	
PRCM	Roach Canyon	
PRD	Provadia	
PRDA	Priddis	
PRE	Pretoria	
PRE2	Preveza	
PRED	Cave del Predil	
PREZ	Palmer Road	
PRF	Porvoo	
PRF0	Thessaloniki Prefecture D.H.	
PRF1	Thessaloniki Prefecture	
PRF2	Region of Thessaloniki	
PRG	Perugia	
PRGF	Pas du Roy	
PRGR	Permogore	
PRGV	PARIAGUAN	
PRGZ	Paritu Road	
PRHZ	Porangahau	
PRI	Priest	
PRIJ	Prijedor	
PRIN	Princeton	
PR-IS	Palmyra Island	
PRJ	Port Royal	
PRK	Paraskevi	
PRL	Portalegre	
PRLK	Prince Lake	
PRLS	Pirkuli	
PRM	Parsons Mountain	
PRMA	PARMA	
PRN	Pahroc Range	
PRNI	Paran	
PRNN	Paranan	
PRNS	Prines Rethymno	
PRNT	Paranatinga-MT	
PRNY	Paleo Inst,Ithaca	
PRO	Pesaro	
PROD	Prodromos	
PROV	Provideniya	
PRP	Porcupine Dome	
PRPB	Parauapebas	
PRR	Perris	
PRRZ	Plateau Road	
PRS	Paraiso	
PRS1	Puriscal	
PRSB	Persembe-Ordu	
PRSC		
PRST	Prospect	
PRT	Prato-Toscana	
PRTR	Priterechnaya	
PRU	Pruhonice	
PRV	Porvoo	
PRVC	Isla de Providencia	
PRVR	Provideniya	
PRW	Prosser	
PRWZ	Pori Road	
PRY	Parys	
PRYA	Perryville	
PRYF	Perigny	
PRYS	Parys	
PRZ	Przheval'sk	
PRZA	Preza	
PRZK	Prizren	
PS01	TAPS Pump Stn	
PS04	TAPS Pump Stn4	
PS05	TAPS Pump Stn5	
PS06	TAPS Pump Stn6	
PS07	TAPS Pump Stn7	
PS08	TAPS Pump Stn8	
PS09	TAPS Pump Stn9	
PS1	Pesaro	PRO
PS10	TAPS Pump St10	
PS11	TAPS Pump St11	
PS12	TAPS Pump St12	
PS1A	Pavlof South-1A	
PS4	Pavlof South-4	
PS4A	Pavlof South-4A	
PSA	Petersburg	
PSA00	Pilbara Seismic Array Element 00	
PSA1	Psathopyrgos	
PSAA1	Pilbara Seismic Array Element A1	
PSAA2	Pilbara Seismic Array Element A2	
PSAA3	Pilbara Seismic Array Element A3	
PSAB1	Pilbara Seismic Array Element B1	
PSAB2	Pilbara Seismic Array Element B2	
PSAB3	Pilbara Seismic Array Element B3	
PSAC1	Pilbara Seismic Array Element C1	
PSAC2	Pilbara Seismic Array Element C2	
PSAC3	Pilbara Seismic Array Element C3	
PSAD1	Pilbara Seismic Array Element D1	
PSAD2	Pilbara Seismic Array Element D2	
PSAD3	Pilbara Seismic Array Element D3	
PSAM	San Ardo	
PSAN	Santo Antonio	
PSARO	Psaromita, Dorida	
PSB1	Pescosannita	
PSBA	Serra de Santa Barbara	
PSBE	S^£o Bento	
PSBMU	Warwick Parish	
PSC	Isla de Pascua	
PSCH	Puerto Saavedra	
PSCM	Serra do Cume	
PSD	Pescadero	
PSDA	Pessada-Kefalonia	
PSDB	Penn State University - DuBois	
PSDMA	Soufriere	
PSDMB	Cotton Hill	
PSDMZ	Portsmouth	
PSEM	See Canyon	
PSET	Sete Cidades	
PSF	Port Stanley	
PSG	Pto de San Jose	
PSG2	Pto San Jose 2	
PSGC	Pisagua	
PSGCX	Pisagua	
PSH	Peshawar	
PSHM	Shandon	
PSI	Prapat	
PSL	Pistoia	
PSM	Palmasola	
PSMA	Santa Maria	
PSMM	Smith Mountain	
PSMN	Pico do Norte, Sta. Barbara	
PSN	Preselentsi	
PSNM	Stone Corral	
PSNS	PSNS Bremerton SMO	
PSO	Pasto	
PSP	Palm Springs	
PSR	Paul Sauer Dam	
PSRA	Psara	
PSRC	Puddingstone Reservoir	
PSRM	Scobie Ranch	
PSRV	Vialonga--Serves	
PSSC	Serra do Socorro	
PST	Pasture Canyon	
PST3	Postiglione	
PSTM	Stockdale Mountain	
PSUB	Penn St. - Brandywine Campus	
PSUR	Point Sur Hydrophone	
PSUT	Pine Spring	
PSV	Pishtovo	
PSVT	Puntarenas	
PSWB	Penn State Wilkes-Barre	
PSZ	Piszkesteto	
PT-	Pendleton	PT-OR
PT01	Morro Solar	
PT02	Quilmana	
PT03	Guadalupe	
PT04	Zamaca	
PT05	Jicamarca	
PT06	Pisco	
PT08	Suche	
PT09	Santa Fe	
PT10	Camacho	
PT11	Juni	
PT18	Porculla	
PT2	Point Dume	
PT20	Maychil	
PT21	Montanita	
PTA	Punta Arenas	
PTAC	Punta Ardita, Choc^‡	
PTAM	Tassajara Creek	
PTB	Point Barrow	
PTBC	PUERTO BERRIO, Antioquia	
PTC	Porto Cannone	
PTCA	Ponta do Capelo	
PTCC	Patocco-Chiusaforte	
PTCH	Petorca	
PTCL	Port Clarence	
PTCN	Pitcairn Island	
PTCO	Port Colborne	
PTCR	Potenciana	
PTD	Portland	
PTE	Portage	
PTEI	Pico do Teixo	
PTEN	Parque Tenorio	
PTEO	Sao Teotonio	
PTF	Prato	
PTG	Portageville	
PTGA	Pitinga	
PTGB	Pitanga	
PTGC	Puerto Gaitan, Meta	
PTGL	Punta Galera	
PTH	Pithoragarh	
PTI	Pocatello Creek	

Code	*Station Name*	*Other*
PTJ	Puntijarka	
PTJ1	Puerto Jimˆnez	
PTK	Pertek	
PTKI	Pontianak	
PTL	Penteli	
PTLB	Pontes e Lacerda, MT	
PTLC	Puerto Leguizamo, Putumayo	
PTM	Pietermaritzburg	
PTMB	Porto Murtinho	
PTMD	Pantelleria Cuddia di Mida	
PTMZ	Houxiangcun	
PTN	Potsdam (NY)	
PTNS	Petnica	
PTO	Porto	
PTO1	PtolemaidA	
PTOM	Tomar	
PT-OR	Pendleton	
PTP	Ponta Puerca	
PTP1	Petroterminal	
PTPK	Patty Peak	
PTPR	Partapura	
PTPS	Port Pirie	
PTQR	Pietraquaria	
PTR	Peterson	
PTRD	Partlow Road	
PTRJ	Pietraroja	
PTRM	Twissleman Ranch	
PTRP	Pietrapertosa	
PTS	Pantelleria	
PTSB	Yuanli	
PTT	Piatra Neamt	
PTTC	Pingtan	
PTU	Portage	
PTV	Peach Tree Valley	
PTVM	Pico Tres Padres	
PTYM	Taylor Ranch	TRC
PTZ	Petauke	
PU-	Purvis	PU-MS
PUAC	Puerto Asis, Putumayo	
PUB	Puale Bay	
PUC	Pucallpa	
PUCA	Punta Cana	
PUCM	Santiago	
PUCR	Pucara	
PUE	Puebla	
PUEL	Puelo Alto	
PUEX	Pudahuel	
PUH	Pauahi	
PUJ	Puerto Jimenez	
PUK	Puka	
PUL	Pulkovo	
PULI	Pulasari	
PULU	Pululahua	
PUMA	Malargue	
PU-MS	Purvis	
PUN	Puno	
PUNE	Pune	
PUNG	Punghina	
PUP	Pupakea	
PUR	Purari	
PURC	Volcan Purace	
PUS	Pusan	
PUSN	Pusma	
PUT	Punta Talca	
PUTN	Putnam	
PUU	Piute Reservoir	
PUV	Pulaski	
PUVA	Puert Vallarta	
PUYE	Entre Lagos	
PUYF	Puyloubier	
PUYI		
PUYO	Puyo, Santa Rosa	
PUZ	Puketiti	
PV-	Perryville	PV-AR
PV01	Paradox Valley	
PV02	Paradox Valley	
PV03	Paradox Valley	
PV04	Paradox Valley	
PV05	Paradox Valley	
PV06	Paradox Valley	
PV07	Paradox Valley	
PV08	Paradox Valley	
PV09	Paradox Valley	
PV10	Paradox Valley	
PV11	David Mesa, Paradox Valley	
PV12	Saucer Basin, Paradox Valley	
PV13	Radium Mtn., Paradox Valley	
PV14	Lion Creek, Paradox Valley	
PV15	Paradox Valley	
PV16	Nyswonger Mesa	
PV17	East Wray Mesa	
PV18	Skein Mesa, Paradox Valley	
PV19	Morning Glory Mine	
PV20	West Nyswonger Mesa	
PV21	Cone Mtn., Paradox Valley	
PV22	Blue Mesa, Paradox Valley	
PV23	Carpenter Ridge	
PV6*	Piano Vulcano	
PVAQ	Vaqueiros	
PV-AR	Perryville	
PVC	Port Vila	
PVCC	Panska Ves	
PVCM	Vineyard Canyon	
PVCP	Virac	
PVER	Pico Vermelho	
PVF	Pernaja	
PVIA	Vitoria	
PVIL	Puerto Villamil, Aeropuerto	
PVIS	Viseu	
PVK	Pavook Mountain	
PVL	Pavlikeni	
PVLZ	Pen@16o@15n de Ve@15lez	
PVM	Polavaram	
PVMO	Portageville	
PVN	Peters Valley	
PVNV	Vila Nova	
PVO	Paravola	
PVP	Pueblo Viejo	
PVPS	Palos Verdes	
PVR	Palos Verdes	
PVRC	Palos Verdes	
PVRL	Vila Real	
PVV	Pavlof Volcano	
PVY	Plav	
PW-	Pontiac	PW-IL
PWA	Palmer West	
PWH	Poliokeawe Pali	
PW-IL	Pontiac	
PWJI	Pagerwojo	
PWKM	Work Ranch	WKR
PWL	Port Wells	
PWLA	Pickwick Lake	
PWM	Pinawa	
PWMM	Westland Maintenance Station	
PWP	Barrio Florida	
PWS	Pulau-Weh	
PWTG	Paul Wright Trailer	
PWV	Princeton	
PWZ	Pawanui	
PX-	Philippi	PX-WV
PXO	Oaxaca	
PX-WV	Philippi	
PXZ	Pawanui	
PY-	Payson	PY-AZ
PYA	Pyatigorsk	
PYA1	Pyatigorsk	
PY-AZ	Payson	
PYF	Esparros	EPF
PYL	PYLOS	
PYL2	Pylos	
PYLO	Lourdes	
PYM	Petit Puy Manson	
PYN	Poneloya	
PYO	Pyongyang	
PYR	Pyramid	
PYR2	Pyrgos	
PYR3	PYRGOS	
PYRG	Pyrgos, Dorida, Greece	
PYT	Playitas	
PYTN	Playitas	
PYUN	Piuthan	
PYZ	Puysegur Point	
PZ-	Ponce	PZ-PR
PZAR	Pazar-Rize	
PZC	Pizona Creek	
PZCI	Patelzick Creek	
PZF	Pozza Ferrara, Ferrara di Monte Baldo (VR)	
PZI	Palazzolo	
PZ-PR	Ponce	
PZUN	Potenza	
PZX	Poza Rica	
PZZ	Stroppo	
PZZT	Monte Pizzetto	
Q03C	Winters	
Q04C	Lincoln	
Q07A	Schurz	
Q08A	Gabbs	
Q09A	Carvers	
Q10A	Clear Creek Ranch, Tonopah	
Q11A	Duckwater	
Q12A	Willow Creek Ranch, Ely	
Q13A	Wheeler Ranch, Garrison	
Q14A	Sevier Lake (BLM), Delta	
Q15A	Fillmore	
Q16A	Castle Valley Ranch, Emery	
Q18A	Rafter H Ranch, Green River	
Q19A	Hogan Spring (BLM), Cisco	
Q20A	Ridgley Place, Grand Junction	
Q21A	Lamborn Mesa, Paonia	
Q22A	Crested Butte, Gunnison	
Q23A	Hartsel	
Q24A	Divide	
Q25A	Bedland, Calhan	
Q26A	Hugo	
Q28A	Sharon Springs	
Q29A	Oakley	
Q30A	Quinter	
Q31A	Ellis	
Q32A	Meitler Ranch, Lucas	
Q33A	Connelly Farm, Tescott	
Q34A	Chapman	
Q35A	Mercer Eighty, Eskridge	
Q36A	Arnold C. Orvedal, Lecompton	
Q37A	Longview Farm, Lees Summit	
Q38A	Cooks Store, Concordia	
Q39A	Willow Grove Farm, Nelson	
Q40A	Laux Farm, Auxvasse	
Q41A	Truxton	
Q42A	Golden Eagle	
Q43A	New Douglas	
Q44A	Meyer Farm, Vandalia	
Q45A	Warren Harvey, Newton	
Q46A	CEJHS Indians, Carlisle	
Q47A	Bedord North Lawrence Stars, Bedford	
Q48A	North Vernon	
Q49A	Aurora	
Q50A	Georgetown	
Q51A	Peebles	
Q52A	Bidwell	
Q53A	Leroy	
Q54A	Coxs Mills	
Q55A	Buckhannon	
Q56A	Snyder Ridge, Maysville	
Q57A	Strasburg	
Q58A	Fox Den Farm, The Plains	
Q59A	Harwood	
Q60A	Greensboro	
Q61A	Milford	
QABG	Abgarm-Qazvin	
QAD	Quadrado	
QAL	Quail Lake	
QALM	Alamut, Qazvin	
QAM	Ghamsar	
QARU	Seremai	
QARV	Quebrada Arriba	
QASM	Qassim	
QASN	Qassioun	
QAW	Queen Anne	
QBC	Quebec	
QBL	Gabala	
QBNZ	Buin Zahra, Qazvin	
QBPR	Quebradillas	
QC-	Queen Creek	
QCC	Queen Charlotte	
QCI	Quattro Castella	
QCL	Quebec	QBC
QCP	Quezon City	
QCQ	Quebec	QBC
QCR	Quepos	
QCR1	Quepos	
QCS	Queen City Summit	
QEN		
QHRO	Qairoon Hariti	
QHW	Quartz Hill	
QIB	Qibla Bandi	
QIL1	Quilotoa	
QIL2	Quilotoa	
QILN	Qililugaq Exploration Camp	
QIS	Mount Isa	
QIT2	Quititos 2	
QITI	Quititos	
QIZ	Qiongzhong	
QLLN	Quello@15n	
QLMT	Earthquake Lake	
QLNO	Quiliano	
QLNY	Queensboro Lake	
QLP	Quilpie	
QMB	Queensbury	
QM-NV	Quartzite Mountain	
QMO	Quartz Mountain	
QN-	Quesnel	QN-BC
QN-BC	Quesnel	
QNG1	Qangwa	
QNR	Quinn River	
QPS	Quepos	
QPSR	Quepos	
QRD	Qoradiz	
QRHJ		
QRI	Quarto	
QRN	Al-Qurain	
QRNJ	Al-Qirein	
QRV	Quinn River Valley	
QRWL	Qaraoun	
QRZ	Quartz Range	
QSAR	Qusar	
QSB	Qsaybeh	
QSH	Qafa e Shtames	
QSM	Queen of Sheba Mine	
QSPA	South Pole Quiet Zone Earth Science Observatory	
QSR	Quien Sabe Ranch	
QTA	Quetta	
QTBJ	Casr Tuba	CSTJ
QTFJ	Qatafi	
QTN	Queenstown	
QTO	Quito	
QTOE	Estacion Edusismo	
QTRJ	Qatrana	
QUA	Quabbin	
QUA2	Belchertown	
QUAR	Qualls	
QUB	Quba	
QUBA	Quba, Azerbaijan	
QUE	Quetta	
QUEM	Puengasi	
QUES	Loma Quita	
QUET	Quetta	
QUEV	Quevedo	
QUI	Quito	
QUIB	Administraciˆ‡n Zonal Quitumbe - Quito	
QUIF	Quistinic	
QUIG	Queretaro	
QUIL	Quilotoa	
QUIN	Quiabu	
QUL	Quillagua	
QUM	Quillmana	
QUND	Qund	
QUR	Rumipamba	
QURS	Qurayyt al Milh	
QURY	Yakoun River	
QUT	Tumbaco	
QUTJ	Qutrana	
QVP	Quezon City--PHIVOLCS	
QVPH	Quezon City--PHIVOLCS	
QZA	Quezalapa	
QZG	Quezaltepeque	
QZH	Quanzhou	
QZN	Quanzhou	QZH
QZO	Quartz Mountain State Park	
QZX	Qazax, Azerbaijan	
R04C	Big Horse Ranch, Ione	
R05C	Kirkwood Meadows Resort, Kirkwood	
R06C	Coleville	
R07C	Lee Vining	
R08A	Mina	
R09A	Tonopah	
R10A	Warm Springs	
R11A	Troy Canyon, Currant	
R12A	Pony Springs, Pioche	
R13A	O'Grain Ranch, Modena	
R14A	James Farms, Milford	
R15A	Junction	
R15V		
R16A	Teasdale	
R17A	Hanksville Airport, Hanksville	
R18A	Canyonlands National Park, Moab	
R19A	Curley Farm, La Sal	
R20A	Redvale	
R21A	Cimarron	
R22A	Saguache, Gunnison	
R23A	Moffat	
R24A	Sanders Place, Florence	
R25A	Fountain Ranch, Boone	
R26A	Arlington	
R27A	Eads	
R28A	Tribune	
R29A	Marienthal	
R30A	Dighton	
R31A	Burdett	
R32A	Long Quarter, Great Bend	
R33A	Olander Ranch, Little River	
R34A	Isabella, Hillsboro	
R35A	Emporia Municipal Airport, Emporia	
R36A	Gordon, Harris	
R37A	Teagarden Farms, La Cygne	
R38A	Fenwick Farm, Montrose	
R39A	Chumby, Stover	
R40A	Maddies Station, St. Elizabeth	
R41A	Rosebud	
R42A	Luebbering	
R43A	Red Bud	
R44A	Waltonville	
R45A	Skylar, Fairfield	
R46A	Gibon Southern Titans, Haubstabt	
R47A	Wooly Knot Farm, English	
R48A	Northridge Ranch, Floyd Knobs	
R49A	Shelbyville	
R50A	Paris	
R51A	Hillsboro	
R52A	Catlettsburg	
R53A	Hurricane	
R54A	Victor	
R55A	Marlinton	
R56A	Bull Pasture Mountain, McDowell	
R57A	Stanardsville	
R58A	Rapidan	
R58B	Mineral	
R59A	King George, VA	
R60A	Leonardtown, MD	
R61A	Willards	
RAB	Rabaul	
RABH	Abou Rabah	
RABL	Rabaul	
RAC	Raciborz	
RAC02	Cali,SGC	
RADA	Ahram - Rada'a city Al-Baydha Gov. - Yemen	
RAEZ	Rainy Point	
RAF	Rauma	
RAFF	Raffo Rosso	
RAFT	RAFT	
RAG	Roghun	
RAGM	Ragged Mountain	
RAGZ	Rawiri	
RAHZ	Arahi	
RAI	Raspberry Island	
RAIO	Rainier	
RAK	Rakhov	
RAKU	Rahkiv	
RAL	Rabalanakaia	
RALT	Raleigh	
RAM	Raman	
RAMA	Ramapo Mountain	
RAMN	Ramite	
RAMR	Ramage Ranch	
RAMW	Rammel Mountain	
RAN	Rangoon	
RANB	Rancho Bola	
RANI	Rangndo	
RAO	Raoul Island	
RAP	Rapindik	
RAR	Rarotonga	
RASA	Rasa	
RAT	Rat Island	
RATI	Rata	
RATT	Rattlesnake Lake	
RATU	Laukkuluspa	
RATZ	Rangitukua	
RAUL	RAUL	
RAV	Ravensburg	
RAVA	Ravarino	
RAW	Raver	
RAY	Raywood Flat	
RAYA	Raymond Alberta	
RAYN	Ar Rayn	
RAZAM	Belene	
RAZG	Razgrad	
RBA	Rabat	
RBAR	Bucharest-INCERC-Test Bldg	
RBC	Rio Blanco	
RBDL	Robledal	
RBEN	Benson Hill Elementary School	
RBH	Right Bank House--Pihur	
RBK	Rabkut	
RBL	Raibl	
RBN	Rybnik	
RBNC	Richland Balsam	
RBO	Rocky Butte	
RBSH	Rongbusi, Xizang Zizhiqu	
RBSI	Rajabasa	
RBU	Red Butte Canyon	
RBY	Rainbow Mountain	
RBZ	Rabat Zaers	
RC01	Rabbit Creek Array Site 1	
RC1	Royal City	
RC14	Nage Dongri, Xizang Zizhiqu	
RCAV	Rocca di Cave	
RCBR	Riachuelo	
RCC	Rio Carpintero	
RCCR	Rock Creek Canyon	
RCD	Rapid City	
RCDM	Rinconada Maipu	
RCG	Rock City	
RCH	Reche Mountain	
RCHB	Rochefort	
RCI	Reggio Calabria	
RCJ	Ross Creek	
RCL	Mte Valcellina	
RCLA	Racherla	
RCLB	Rio Claro- Sao Paulo-Brazil	
RCM	Mount Rainier--Camp Muir	
RCO	Red Cone	
RCON	San Juan de Rio Coco, Nicaragua	
RCP	Roxas	
RCP2	Recreation Park	
RCR	Cape Wrath	
RCRC	Randolf College Riding Center, Lynchburg	
RCS	Mount Rainier--Camp Schurman	

Code	Station Name	Other
RCT	Riceville	
RCTC	Rector, Farmersville	
RCW	Richland	
RCWM	Renegade Canyon West	
RCY	Rachaya	
RD01	Burlington	
RD02	Waterdown	
RD03	Mount Hope	
RD04	Stoney Creek	
RDC	Rolduc	
RDDR	Redoubt East 2	
RDE	Redoubt Vol. East	
RDEA	Red Earth Creek	
RDF	Al-Radifah	
RDG	Rabinal	
RDG13	Poverty Ridge 1, Station 3	
RDI1	Rhodes Town Hall	
RDJ	Rio de Janeiro	
RDJH	Redoubt Jeurgen	
RDLO	Red Lake	
RDLQ	Riviere-du-Loop	
RDM	Round Mountain	
RDM3	Ruvo Del Monte	
RDMU	Red Mountain	
RDN	Redoubt North	
RDO	Rodhopi	
RDOG	Red Dog Mine	
RDP	Rocca di Papa	
RDS	Siegrist	
RDSO	Redoubt South	
RDSS	Rosedale State School	
RDST	Rhodes College	
RDT	Redoubt	
RDW	Redoubt West	
RDWB	Redoubt West	
RDWR	Rand Water	
RDX	Rancho Dawling	
RE02	Canossa - RE	
RE03	Vedriano (Canossa) - RE	
RE04	Sedrio (Vezzano sul Crostolo) - RE	
RE05	Terme di Santa Lucia (Busana) - RE	
RE06	Pratopiano (Palanzano) - PR	
RE07	Pizzano Val di Parma - PR	
RE08	Castello di San Valentino (Castellarano) - RE	
RE1	Mte Valcellina	RCL
REAC	Reactor, Bogotˆ¡	
REAL	Reales	
REB	Eisghbrachaidh	
REC	Recreo	
RECU	Ecuador Network	VC1
RED	Redoubt Volcano	
REDH	Redhead, NSW Australia	
REDP	Redondo Peak	
REDW	Red Top Meadow	
REDWA	Red Mountain	
REF	Redoubt East Flank	
REFA	Refahiye_ERZˇNCAN	
REG	Rock Eagle	
REG*	Regar	RGR
REI	Reidovoe	
REKY	Reed	
REL	Relizane	
RELT	Roellen	
REM	Remote	
REMR	Mount Rainier--Emerald Ridge	
REMW	Rembrandt	
REMY	Saint-Rhˆmy-en-Bosses	
REN	Reno	
RENF	Rennes	
RER	Riviere de l'Est	
RES	Resolute Bay	
RESF	Ens	
RESI	Resinera	
RESU	Resuttano	
RET1	Porto Nacional, TO, Brazil	
RET10	Pium - TO	
RET11	Monte do Carmo - TO	
RET12	Mateiros - TO	
RET13	S. Felix do Tocantins -TO	
RET14	Novo Acordo - TO	
RET2	Formoso do Araguaia, TO, Brazil	
RET3	Cariri, TO, Brazil	
RET4	Sucupira, TO, Brazil	
RET5	Paranan- TO	
RET6	Dianopolis -TO	
RET8	Sˆ£o Miguel do Araguaia, GO, Brazil	
RET9	Novo Planalto, GO, Brazil	
RETA	Reutte	
RETH	Rethem/Aller, Germany	
RETU	Refugio	
REU	Reunion Island	
REUT	Washington Fields	
REVE	Rev-Rev Volc	
REVF	Revere	
REVI	Revivim	
REVS	Reventador Sur	
REW	REWA	
REX	Rexburg	
REY	Reykjavik	
REYF	Montagne du Rey	
REYT	Reyhanli	
RFA	San Rafael	
RFDD	Rafsanjan	
RFI	Roccamonfina	
RFM	Reservoir Flats	
RFO	Forsnaval	
RFSB	Richmond Field	
RFTA	Plano	
RFVM	Rio Frio	
RFYF	Reffroy	
RG-	Redig	RG-SD
RGA	Parga	
RGC	Rangely	
RGD	Ragged Mountain	
RGE1	Gennadi, Rhodes Island	
RGN	Rugen	
RGNG	Rignano Grg	
RGP	Ruby Glebe Property	
RGR	Regar	
RGRI	Rengat	
RGRS	Roger Stewart	
RGS	Rognes	
RG-SD	Redig	
RGZ	Rangipo	
RHA	Reichold	
RHAM	Hammer	
RHAZ	Hazelwood Elementary School	
RHC	Rose Hills Cemetery, Whittier	
RHD	Arkhangelos	ARG
RHJ	Red Hills	
RHK1	Bakonya	
RHK2	Bata	
RHK3	Tenkes	
RHM	Rio Hardy	
RH-NV	Rawhide Mountain	
RHO	Rhodes	
RHP	Rhoboro Hills	
RHT	Red Hill	
RHT01	RHT01	
RHT02	RHT02	
RHT03	RHT03	
RHT04	RHT04	
RHT05	RHT05	
RHT06	RHT06	
RHT07	RHT07	
RHT08	RHT08	
RHT09	RHT09	
RHT10	RHT10	
RHT11	RHT11	
RHT13	RHT13	
RHT14	RHT14	
RHT15	RHT15	
RHU	Roosevelt Hot Springs	
RIA	Ribeira da Areia	
RIA0	Ribeira da Areia	RIA
RIB	Ribeirinha	
RIB01	Linhares ES	
RIB2	Ribeirinha	
RIC	Richmond	
RICH	Rich Mountain	
RICI	Ricice	
RIDG	Independ'e Ridge	
RIEH2	Riehen 2 (BS)	
RIFB	Rifaina	
RIFO	Rio Frio	
RIGZ	Rimuhau	
RII	Riito	
RIM	Rim	
RIMQ	Rimouski	
RI-MS	Richton	
RIN	Volcan Rincon	
RIN2	Volcan Rincon	
RIN3	Volcan Rincon	
RIO	Rio Grant	
RIOB	Rio Branco	
RIOE	Riobamba	
RIOE1	Riobamba	
RIOS	Rincon	
RIOV	Rio Grande	
RISI	Rein	
RITOM	Lago Ritom (SBB)	
RITZ	Rihia Road	
RIU	Riou	
RIV	Riverview	
RIVT	Riveris	
RIY	Rijeka	
RIZ	Raoul Island	
RJF	Les Rejaudoux	
RJOB	Jochberg	
RK-	Red Lake	RK-ON
RK1	Rhampton Hrock	
RK1H	Rockhampton Hard Rock	
RK2	Rhampton Srock	
RK2S	Rockhampton 2 Soft	
RKAV	Rock Avalanche	
RKG	Rocky Gully	
RKGY	Rocky Gully	
RKL1	Kallithies, Rhodes Isl.	
RKO	Rokko	
RK-ON	Red Lake	
RKPI	Ransiki, Papua	
RKS	Reko	
RKT	Rikitea	
RKT1	Kattavia Rhodes Isl.	
RKY	Sarkoy-Tekirdag	
RL-	Rib Lake	RL-WS
RLA	Relizane	
RLKO	Red Lake	
RLMT	Red Lodge	
RLN1	Lindos, Rhodes Isl.	
RLNB	Erlin	
RLO	Rose Lookout	
RLS	Riolos of Patras	
RLSP	Rockland Lake	
RLW	Rice Lake	
RL-WS	Rib Lake	
RM01	Lucoli (AQ)	
RM02	Colle Roio	
RM03	San Martino d'Ocre	
RM04	Rocca di Mezzo	
RM05	Colli (Barete)	
RM06	Scoppito	
RM07	Collebrencioni	
RM08	Filetto	
RM09	Piano di Cascina (Cagnano Amiterno)	
RM10	Cesaproba (Montereale)	
RM11	Collenoveri	
RM12	Casamaina	
RM13	Rovere (Rocca di Mezzo)	
RM14	Barisciano	
RM15	Castiglione (Tornimparte)	
RM16	Terranera (Rocca di Mezzo)	
RM18	Fano Adriatico	
RM20	Borbona	
RM21	Selvarotonda (Cittareale)	
RM22	Micigliano	
RM23	Viesci	
RM24	Colle Belvedere (Rocca di Mezzo)	
RM25	Mosicchio (Amatrice)	
RM26	Passo delle Capannelle	
RM27	Carapelle Calvisio	
RM28	Assergi	
RM29	Verrico (Montereale)	
RM30	Cerqua	
RM31	Accumuli	
RM32	Poggio Cancelli	
RM33	Pellescritta (Montereale)	
RMA	Rockefeller Mts	
RMB	Rombauer	
RMBN	Ramban	
RMCR	Rio Macho	
RMG	Rome (USA)	
RMGF	Ravine Marchand	
RMGR	Halanga-Turnu Severin	
RMI	Round Mountain	
RMI2	Roccaromana	
RMJ	Rumoi	
RMKL	Ramhormoz	
RMN	Mount Ramon	
RMNB	Reason Mountain	
RMNI	Mount Ramon	
RMNS	Romny	
RMO	Rochester (NY)	
RMOA	Moar Alm	
RMP	Rome, Mte Porzio	
RMQ	Roma	
RMR	Rimrock	
RMSF	Reims	
RMT	Round Mountain	
RMU	Rainbow Monument	
RMVG	GOVORA	
RMW	Rattlesnake Mountain	
RMX	La Rumorosa	
RN-	Rainelle	RN-WV
RNC	Little Raleigh	
RND	Reindeer	
RNDA	Aranda	
RNF	Rovaniemi	
RNHA	Neuhaus	
RNI	Roncone	
RNI2	Rionero Sannitico	
RNO	Roman Nose	
RNON	Nonn-Bad Reichenhall	
RNTT	Ranong	
RN-WV	Rainelle	
RNYS	Ranyah	
ROA	Roan Cliffs	
ROB	Robourent	
ROBE	Robe	
ROBI	Boca de Chavon	
ROBS	Robic@19	
ROC	Rochester	
ROC1	El Roble	
ROCAM	Rodrigues Island Caves	
ROCE	Novi Di Modena	
ROCH	El Roble	
ROD	Rodman Mountain	
ROD3	Rodini, Patras, West Greece	
RODG	Roetgen-Dahlheim	
RODI	Rodini	
RODM	Citronelle, Rodrigues Island	
RODP	Rodopos	
ROF	Roppe	
ROG	Rognes	
ROH	Rohtak	
ROHR	Rohrbach	
ROI	Rossano	
ROIA	ROIAK	
ROKH	ROKH	
ROKL	Rocklands	
ROKM	Rocklands Reservoir	
ROKY	Rotten Point	
ROL	Rolla	
ROM	Rome	
ROM9	Roma	
ROMN	Roman Lake	
RON	Remote	
RONC	Roncone	
RONM	Roccetta Nervino	
ROOS	tl_alroos	
RORO	Rocca Rossa	
RORSS	Ber_school_1	
ROS	Roseneath	
ROSA	Rosais	
ROSB	Rosˆ¡rio	
ROSC	El Rosal	
ROSF	Rostrenen	
ROSI	Rosskopf	
ROSL	ROSL	
ROSN	Rosenhof	
ROSS	Ross	
ROT	Rotorua	
ROTD	Rotterdam (NY)	
ROTHE	Rothenfluh	
ROTM	Rocchetta Tanaro	
ROTU	Roteberg	
ROTZ	Rotzenmuhle	
ROU	Rougiers	
ROUQ	Riviere-Ouelle	
ROVE	Rovereto Di Novi	
ROVR	Roverˆ¤ Veronese	
ROW	Rowesville	
ROWM	Rowsley	
ROX	Roxburgh	
ROYM	Rob Roy	
RPA	Roopena	
RPF	Rose Park Fire Station, Salt Lake City, UT	
RPK	Roosevelt	
RPM	Rheinpreussen Mine	
RPN	Rapa Nui	
RPN1	Rhodes Hospital	
RPOR	Krasnaya Polyana	
RPR	Rampur	
RPSI	Rantau Prapat	
RPT	Raluana Point	
RPV	Rancho Palos Verdes	
RPW	Rockport	
RPZ	Rata Peaks	
RRD	Roosevelt Roads	
RREF	El Recreo	
RRH	Rhenigidale	
RRHS	Rochester High School	
RRI	Red Ridge	
RRI2	Red Ridge	
RRL	Rocca Remolon	
RRO	Red Rock Canyon	
RRP	Roosevelt Roads	
RRR	Rubha Reidh	
RRRZ	Republican Road	
RRX	Edison Barstow Service Cntr. Barstow	
RS-	Russell Springs	RS-KY
RS1	Redoubt South 1	
RS2	Redoubt South 2	
RSA	Sarsar	
RSA3	Rocchetta Sant'Antonio	
RSB	Ravensbos	
RSBC	Riverside Borehole	
RSBS	Rosebush, Pembrokeshire	
RSC	Scourie	
RSCM	Risco	
RSCP	Cumberland Plateau	
RSD	Rainshed	
RSDY	Resadiye-TOKAT	
RSE	Rose Pump	
RSF3	Rocca San Felice	
RSH		
RSHJ	J Risha	JRSJ
RSHS		
RSJ	Rancho San Jose	
RS-KY	Russell Springs	
RSL	Roselend	
RSM	Repubblica di San Marino	
RSNT	Yellowknife	
RSNY	Adirondack	
RSO	Redoubt South	
RSO1	Soroni, Rhodes Isl.	
RSON	Red Lake	
RSP	Reno Superiore	
RSPO	Restoule Provincial Park	
RSRB	Richmond-San Rafael Bridge	
RSSD	Black Hills	
RST	Umm Al-Ruwaisat	
RSTA	Tijuco Alta	
RSU	Mount Rainier--Summit	
RSUT	Red Spur Mountain	
RSV	Radio Antilles	
RSW	Rattlesnake Hills	
RSY	Rusayo	
RT-	Raton	RT-NM
RTA	Riberalta	
RTB	Rutbah	
RTBI	Rangdo, Negare	
RTBS	Barreal	
RTC	Rabat Centre	
RTCB	Cerro Blanco	
RTCV	Cerro Valdivia	
RTH1	Rethymnon	
RTK	Rohtak	
RTLL	Cerro Villicun	
RTLS	Leoncito	
RTMI	Retamim	
RTMM	Retamin	
RTMQ	Marquesado	
RTN	Rota	
RT-NM	Raton	
RTO	Tolsta	
RTP	Ruataniwha	
RTPR	Patquia	
RTQ	Roma	
RTR	El Retiro	
RTRS	Rodeo	
RTUL	Rataul	
RTV	Rentapao	
RTY	Rotoiti	
RTZ	Ruatahuna	
RUB	Prince Rupert	
RUBB	Prince Rupert	
RUBR	Rubicon Trail	
RUDO	Rudo	
RUDS	Rudovci	
RUDU	RUNDU	
RUE	Ruedersdorf	
RUFI	Rufina	
RUGZ	Raukumara Range	
RUM	Rumangabo	
RUMJ	Er Rumman	
RUMN	Rumjataar	
RUMP	Rumipamba	
RUN	Ruthven	
RUN2	Runtun	
RUN3	Runtun 3	
RUN5	Runtun	
RUND	Rundenannen	
RUP	Ruppelstein	
RUS	Russkaya	
RUSAM	Ruse	
RUSC	La Rusia	
RUSF	Rustrel	
RUSJ	Misakicho	
RUSM	Rushworth	
RUT	Ruth	
RUTI	Ruteng	
RUV	Rauvai	
RUWJ	Ruweisid	
RUZ	Raurimu	
RVAZ	Riverhead Borehole	
RVC	Mount Rainier--Voight Creek	
RVCM	Rose Valley Central	
RVE	Reveille Range	
RVI2	Rocchetta Volt	
RVM	Rio Vista Mine	
RVMB	Rio Verde do Mato Grosso - MS	
RVR	Riverside	
RVRD	Rio Verde	
RVS	Riverside Mountains	
RVUT	Riverside	
RVVM	Revivim	
RVW	Rose Valley	
RW1	Ridgway	
RW2	Ridgway	
RW3	Ridgway	
RW4	Ridgway	
RW5	Ridgway	
RW6	Ridgway	
RWB	Wassenberg	
RWMO	Wildenmoos	
RWW	Ranney Well	
RWWY	Rawlins	
RXF	Rexford	
RY-	Ryder	RY-ND
RYAN	Fayoum	
RYB	Rybach'ye	
RYD	Riyadh	
RYDS	Riyadh	
RYL	Rypely	
RYN	Ryan	
RY-ND	Ryder	
RYS	Reyes Peak	
RZN	Rozhen	

Code	Station Name	Other
S04C	Ingram Canyon, Westley	
S05C	Merced	
S06C	San Francisco Camp Mather, Mather	
S08C	White Mtn Res Sta-Crooked Creek, Bishop	
S09A	Goldfield	
S10A	Tonopah Range, Tonopah	
S11A	Rachel	
S12A	Delamar Landing Field, Caliente	
S13A	Holt Ranch, Enterprise	
S14A	Cedar City	
S15A	Panguitch	
S16A	Weppner Ranch, Escalante	
S17A	Black Ridge (BLM), Bullfrog Basin	
S18A	Hurst Farm, Blanding	
S19A	Harvey Farm, Monticello	
S20A	Disappointment Valley, Cahone	
S21A	Coal Bank Pass, Durango	
S22A	4UR Ranch, Creede	
S23A	Nye Farm, Monte Vista	
S24A	Houchin Ranch, La Veta	
S25A	Robets Cordova Ranch, Walsenberg	
S26A	Kim	
S27A	Las Animas	
S28A	Manter	
S29A	Ulysses	
S30A	Montezuma	
S31A	Mullinville	
S32A	Newby Ranch, Pratt	
S33A	Kaszmaul Farm, Murdock	
S34A	Willow Spring Farm, Andover	
S35A	Otter Creek Ranch, Eureka	
S36A	Lake Cedric, Chanute	
S37A	Fort Scott	
S38A	Stockton	
S39A	Bolivar	
S40A	Lebanon	
S41A	Jillco Farms, Salem	
S42A	Caledonia	
S43A	Fulton Ridge, Patton	
S44A	Carbondale	
S45A	Carrier Mills	
S46A	Don Dixon Farm, Corydon	
S47A	Hartford	
S48A	Wiedeman Farm, Cecilia	
S49A	Springfield	
S50A	Richmond	
S51A	Beattyville	
S52A	Salyersville	
S53A	Williamson	
S54A	Dingess, Beckley	
S55A	Lewisburg	
S56A	Natural Bridge	
S57A	Dark Hollow, Roseland	
S58A	Poland Farm, Powhatan	
S59A	Mechanicsville	
S60A	Water View	
S61A	Accomac	
SA-	Seneca	SA-OR
SA1G	Sarfartoq 1, Greenland	
SA2	San Angelo	SA2TX
SA2G	Sarfartoq 2, Greenland	
SA2TX	San Angelo	
SA3G	Sarfartoq 3, Greenland	
SA4	San Angelo	SA4TX
SA4G	Sarfartoq 4, Greenland	
SA4TX	San Angelo	
SAA	Sakai	
SAAT	Saatly	
SAB	Saberio	
SABA	Saba	
SABC	Sabc	
SABG	Sable island	
SABO	M.te Sabotino	
SABQ	Saba, The Bottom	
SABR	Sanharo	
SABS	Saba	
SABT	Saba	
SABV	Saba, Juancho Airport	
SABW	Saba, Winward Side	
SAC	San Andreas	
SACA	Loma Carmona	
SACC	Sacramento, California	
SACR	S. Croce Del Sannio	
SACS	San Casciano dei Bagni	
SACV	Santiago Island	
SAD	Saidpur	
SADA	Sad'ah	
SADC	Saddle Peak	
SADO	Sadowa	
SADQ	Saint-Augustin-de-Desmaures	
SAE	Statte	
SAF	Zefat	
SAFT	Safranbolu	
SAG	Saga	
SAGA	Saga, Xizang Zizhiqu	
SAGI	Saggi Highlands	
SAGO	Sagoatoa	
SAH	Sawauchi	
SAHE	Sakarya_HENDEK	
SAI	Saigo	
SAIG	Aigle Rue de la Gare	
SAIH	SAIHA	
SAIM	ADANA	
SAIRA	Les Sairains Dessus	
SAIU	Southern Antelope Island	
SAIV	Sant'Angelo In Vado	
SAJA	Sa'gya, Xizang Zizhiqu	
SAJV	Sajaritas	
SAK	Sakata	
SAKN	Sanikiluaq	
SAL	Salo	
SALA	Sala	
SALAN	Lac Salanfe	
SALB	San Lorenzo Bellizzi	
SALC	Salvajina	
SALF	Salau	
SALI	Salinas	
SALI3	CIMA - Sant'Angelo dei Lombardi	
SALII	SALI	
SALJ	Salt	
SALK	Salom-Alik	
SALM	Salem	
SALO	Salr	
SALR	Pechorkino, Salair, Kemerovskaya Oblast', Russia	
SALT	Sultana	
SALTS	Altdorf, Kantonsspital	
SALU	Saltoluokta	
SALV	Santo Antonio do Leverger, MT	
SALX	Saltillo	
SAM	Samarkand	
SAMA	S.Maria delle Mole (Ciampino, Roma)	
SAMG	Sameba	
SAMH	Samovar Hills	
SAML	Samuel	
SAMO	Samokov	
SAMS	Samsun-Alacam	
SAMU	Samuel, RO	
SAN	Santiago	
SAN1	Sandwick	
SANA	San'a	
SANB	Taian	
SANC	Santa Ana	
SANF	Convento San Francisco - Quito	
SANG2	South of Nakchu	
SANI	Sanana	
SANL	SANLIURFA_Merkez	
SANM	San Marcos	
SANQ	St-Andre-du-Lac-St-Jean	
SANR	Sandrigo	
SANT	Santorini	
SANU	Sandwick	
SANV	Sanarito	
SANVU	Saraoutou	
SANY	Sanborn	
SANZ		
SAO	San Andreas Geological Observatory	
SAOF	Saorge	
SAON	Isla Saona	
SA-OR	Seneca	
SAP	Sapporo	
SAP1	Santorini-Akrotiri	
SAP2	Sant'Angelo in Pontano	
SAP2K	Karterados	
SAP3	Santorini-Thirassia	
SAP4	Santorini-Oia	
SAPN	Saipan	
SAR	Sarajevo	
SARE	Arbon, Evangelische Kirche, TG	
SARI	SarD1z-Kayseri	
SARK	Sarnen Kantonsschule	
SARN	Sarigan	
SARO	Sassorosso	
SARP	Sargodha	
SARR	Saratov	
SARS	Nor Kachakap	
SART	Tekirdag	
SAS	Saskatoon	
SASA	Sand Point	
SASS	Sassa´´´´´´	
SAT	Sang-Tuda	
SAT1	San Antonio Texas	
SATI	Passo dei Salati	
SATK	Sarapat	
SATS	Thornton Park	
SATY	Saty	
SAU	Saltair	
SAUF	ch^¢teau de Saumane	
SAUI	Saumlaki	
SAUR	Augst-Roemermuseum	
SAUV	Serdivan-Sakarya	
SAV	Savannah	
SAVE	San Marco di Savelli	
SAVF	Savonnieres en Perthois	
SAW	Saint Andrews	
SAX	Saentis	
SAY	Sayfiye	
SAYS	Saidy	
SAZ	Santa Maria Island	
SB-	Grafenberg Ar.	GRF
SB02	Marmara Sea	
SB1	Sierra Blanca Array Site 1	
SB2	Sierra Blanca Array Site 2	
SB3	Sierra Blanca Array Site 3	
SB4	Sulfur Bank	
SBA	Scott Base	
SBAF	Basel-Friedhofgasse	
SBAJ2	Basel, St Johann, BS	
SBAK	Basel, Klybeck	
SBAM2	Basel, M^...nster, BS	
SBAP	Basel-PUK	
SBAS	Baar Spital, ZG	
SBAT	Basel-Tropenhaus	
SBAV	Basel, Vogelsang, BS	
SBAW	Basel, Wirtschaftsgymnasium, BS	
SBB	Saddle Back Butte	
SBBR	Sobral	
SBC	Santa Barbara	
SBCB	Hsinchu	
SBCZ	Sonora Basin	
SBD	Saint Breward	
SBD1	Bryn Du	
SBDP	Sheikh Budin	
SBE	Sebes	
SBEA	Susan B. English School	
SBEG	Bettingen Gewerbehaus	
SBERN	Bern, Kleine Schanze	
SBES	Silver Beach Elementary School	
SBF	Sospel	
SBG	Sibinal	
SBH	Shibata	
SBI	Santa Barbara Island	
SBID	Snowbank Mountain	
SBIF2	Birsfelden, Friedhof	
SBIK	Biel, Kongresshaus, BE	
SBIS2	Binningen	
SBJ	Shimobe	
SBJI	Serang	
SBK	Seabrook	
SBKC	Saddleback Mountain	
SBL	Sacbachol	
SBLHI	Steaming Bluff	
SBLS	San Blas	
SBM	South Baldy	
SBN	Saba	
SBNU	Taloyoak	
SBO	Springbok	
SBP	Subic Bay	
SBPG	Barcellona Pozzo di Gotto	
SBPH	San Jose del Monte	
SBPO	S.Benedetto Po	
SBQ	Sherbrooke	
SBR	S Black Range	
SBRN	Brisbane	
SBRS	Brig, Spital	
SBRT	Shubertovo	
SBS	Sidi-Bou-Said	
SBSI	Sibolga	
SBT	San Benito	
SBT1	Cinarcik-Koru-Yalova	
SBT2	Guzelce-Avcilar-Istanbul	
SBT3	Marmara-Ereglisi-Tekirdag	
SBT4	Kumbag-Tekirdag	
SBT5	Esenkoy-Cinarcik-Yalova	
SBTG	Sabatlo	
SBU	Stansbury Island	
SBUA2	Buchs, Altendorf	
SBUB	Buchserberg Malbun	
SBUH	Buchs, Hochschule	
SBUM	Sibu	
SBV	Sambava	
SBVC	San Bernardino Valley	
SBY	Sand Bay	
SBZ	Shahbuz	
SBZV	Sabzevar	
SC-	Sutcliffe	SC-NV
SC01	Santiago de los Caballeros	
SC02	Santiago aeropuerto	
SC2M	Scurtabo	
SCA	Santa Cruz	
SCB	Scarborough	
SCC	Santa Cruz	
SCCB	Santa Clara County Offices	
SCCK	Coley Creek	
SCCM	Colson Canyon	
SCCW	Shoreline CC	
SCE	Schlegeis	
SCE1	Shell Creek	
SCEL	Celerina	
SCER	sogukcermik	
SCF	Sheep Creek Facility	
SCG	Saint Claude	
SCH	Schefferville	
SCHCA	Scheelite	
SCHD	Schmiedefeld	
SCHE	Schaffhausen-Ebnat	
SCHF	Schoenfels	
SCHL	Schela	
SCHN	Schinveld	
SCHO	SCHO	
SCHQ	Schefferville	
SCHR	S. Chirico Raparo	
SCHRR	Schitu	
SCHS	Schaffhausen, Spital	
SCI	San Clemente Island	
SCI2	San Clemente Island 2	
SCIA	State Center	
SCIG	Sabancuy	
SCJI	Gunung Srandil	
SCK	South Creake	
SCKWR	San Luis Creek Check 11 ,Merced County	
SCL	Santa Clara	
SCL3	Muro Lucano (Serra Campolungo)	
SCLL	Scilla	
SCLT	Jiali	
SCM	Sheep Creek Mountain	
SCMO	St. Charles CC	
SCN	Sunset Crater	
SCNT	Darkhovein	
SC-NV	Sutcliffe	
SCO	Scoresbysund	
SCOM	Sussex County Emergency Operations Center	
SCOU	Cournillens	
SCP	State College	
SCP1	State College	
SCPH	Surigao	
SCR	San Cristobal	
SCRK	Sand Creek	
SCRN	Santa Cruz	
SCRP	Scyscraper	
SCRT	Cerro San Cristobal	
SCRV	San Cristobal	
SCS	Sicasica	
SCT	Scotty Lake	
SCTE	Santa Cesarea Terme	
SCU	Sheep Canyon	
SCUC	Scuol-Clozza	
SCUG	Chur Gewerbeschulhaus	
SCUM	Serra do Cume	
SCUT	Santa Clara	
SCV	Saint Croix	
SCVI	Saint Croix	
SCW	Sherman Crater--Mount Baker	
SCX	San Cristobal	
SCY	Stone Canyon Reservoir	
SCYB	Stone Canyon	
SCZ	Santa Cruz	
SCZ2	Santa Cruz Island 2	
SCZP	Santa Cruz	
SCZT	Fangliau	
SDA	Shkodra	
SDAN	Sedan	
SDB	Sa da Bandeira	
SDBA	SAO DESIDERIO	
SDC	San Diego	
SDCA	Salto do Cavalo	
SDCO	Great Sand Dunes National Park	
SDD	Santo Domingo	
SDD01	Loma Colora	
SDD02	Loma Siseviere	
SDD03	Loma La Ceniza	
SDD04	Loma El Mogote	
SDD05	Loma Manaclilla	
SDD06	Hatillo	
SDD07	Loma El Cafe	
SDD08	Loma Yayales	
SDD09	Ceiba Bonita	
SDD10	Monte Rojo	
SDDR	Presa de Sabaneta	
SDE	Santiago Estero	TPA
SDEM	Sadie Cove	
SDF	Sodankyla	
SDG	Sourdough	
SDH	Striped Hills	
SDHHI	Sand Hill	
SDI	San Donato	
SDJ	Sanada	
SDKM	Sandakan	
SDL	Saddle Mountain	
SDLC	Saltdale	
SDLR	Sedlovina	
SDM	Santiago Maria	
SDMD	Soldier's Delight Natural Environment Area	
SDMZ	Santiago de Maria	
SDN	Sand Point	
SDNR	Sundarnagar	
SDO	Salado	
SDOM	Mount Sodom	
SDP	Sudden Peak, Lompoc	
SDPT	Sand Point	
SDR	Surduc	
SDRC	San Diego Road Dept, El Cajon	
SDS	Sanatorio Duran	
SDSI	Sungai Dareh	
SDV	Santo Domingo	
SDW	Sidewinder Mine	
SE-	Sleepy Eye	SE-MN
SEA	Seattle	
SEAG	Tbilisi Sea	
SEAR	Searcy	
SEAS	Seaside SMO	
SEB	Sibenik	
SEC	Stevens Creek	
SECR		
SEDI	Konya/Seydi¯ehir-Tara¯¨§¯–	
SEDN	First Sedna Site,Hudson Bay	
SEF	Sefi@18d Ru@18d	SRI
SEF1	Sefro	
SEG	Port Louis	
SEGC	San Emigdio	
SEH	Sehore	
SEHB	SEOHWA	
SEI	Scarperia	
SEJ	Sejong Station	
SEK	Senekal	
SEKA	Sheki	
SEL	Semlyachik	
SELA	Sela	
SELF	Sixty Eight Flow	
SELQ	St-Eleuthere	
SELS	Selova	
SELV	Sierra Elvira	
SEM	Semipalatinsk	
SEMD	Semdilli	
SEMI	Semponon	
SEMM		
SE-MN	Sleepy Eye	
SEMOS	Emosson Staumauer, Bunker	
SEN	Sendai	
SEND	SEND	
SENE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
SENI	Senigallia	
SENIN	Lac Senin/Sanetsch	
SENK	Senkaya-Erzurum	
SEO	Seoul	
SEPFL	Lausanne EPFL	
SEPW	September Lobe	
SER	Sermur	
SERE	Sereflikochisar	
SERG	Sergoula	
SERI	Serifos	
SERM	Sermide	
SERS	Sersale	
SES	Suffield	
SESP	Santiago Espada	
SEST	Monte Rota	
SET	Setif	
SET2	Ginetes	
SET3	Pilar	
SET4	Mosteiros	
SETA	Sete Cidades	
SETU	Setubal (Portugal)	
SEUG	St. Eustatius G	
SEUH	St. Eustatius H	
SEUS	St. Eustatius	
SEUT	St. Eustatius T	
SEV	Sevastopol'	
SEVA	Sevastopol	
SEW	Seward	
SEY	Seymchan	
SEY1	Mahe	
SEYC	Seychelles	
SEYD	Seydisehir-KONYA	
SEYT	Eskypehyr	ESKT
SF-	Snowflake	SF-AZ
SF2	Kangerlussuaq 2	
SFA	Sept-Chutes	
SFA1	Serra Facao	
SFAN	Fancy Village	
SF-AZ	Snowflake	
SFB	San Francisco	
SFC	San Francisco	
SFD	Strofades	
SFDO	San Fernando	
SFER	Spokane Schools, Ferris High School ANSS-SMO	
SFF	Sheffield	
SFG	Saint Francois	
SFH	Hasselmere	
SFI	Santa Sofia	
SFIN	Lafayette	
SFIR	Foira Santorini	
SFJ	Sondre	
SFJD	Kangerlussuaq 2	
SFJM	Santa Fe	
SFJWR	San Luis Fatjo Ranch, Merced County	

Code	Station Name	Other
SFK	Sufi-Kurgan	
SFK1	Sfakia	
SFL	San Felipe	
SFL1	Soufli	
SFL3	San Fele	
SFM	San Francisco	
SFM1	San Francisco de Macorix	
SFN	Sterling Forest	
SFNV	Sufian	
SFO	Sterling Forest	
SFP	San Felipe	
SFR	San Francisco--Rincon	
SFRA	Frenkendorf	
SFS	San Fernando	
SFT	Stanford Telescope	
SFTF	Sexfontaines	
SFTN	Shelby Forest	
SFTX	Fort Shafter	
SFUC	San Fernando	
SFX	San Felipe	
SFX2	San Felix	
SG-	Seligman	SG-AZ
SG1	Sgolgore (BA)	
SG6*	San Gibilmanna	
SGA	Stephens Glacier	
SGAM	Sherman Glacier	
SGAS	Stanga	
SGAZ	Eski¯ehir/Seyitgazi-Do¯anˆ§ay¯–r	
SG-AZ	Seligman	
SGB	San Diego Bay	
SGC	Saratoga Golf Course	
SGCP	Mt. Cagua	
SGD	Sagiada	
SGDS	Sogindy	
SGE	South Ridge	
SGEB	BUCURESTI	
SGEM	Genf, Marziano	
SGEV	Genˆ¤ve, Vieux-Billard	
SGF	Sodankyla@14	
SGG	Gregorio Matese	
SGH	Sud-Ghoubbet	
SGI01	Saint George Infrasonic Array Site 1	SGIAR
SGI02	Saint George Infrasonic Array Site 2	
SGI03	Saint George Infrasonic Array Site 3	
SGI04	Saint George Infrasonic Array Site 4	
SGIA	Mirandola	
SGIAR	Saint George Infrasonic Array Beam Reference Point	
SGJ	Sugihashi	
SGK	Hsinkong	HSI
SGKI	Sangatta, Kalimantan	
SGKR	Sergokala	
SGKT	Sivrigoynuk	
SGL	Mount Signal	
SGLT	Jiouru	
SGM	Silver Gate	
SGMF	Saint Gilles	
SGMN	Shimogamo	
SGN	Springfield	
SGNT	Sidi Gnaou	
SGO	Sicignano	
SGP	San Gregorio	
SGR	Segre	
SGR1	Siggri Mitillinis	
SGRA	Graechen Ausblick	
SGRN	Sagara	
SGRQ	St-Georges	
SGRR	Singureni	
SGRT	San Giovanni Rotondo	
SGS	Saint George	
SGSI	Sangihe	
SGST	Jiashian	
SGSU	St. George Fire Station	
SGT	Sevinc	
SGT00	Sennhˆ…lsen	
SGT01	Gaiserwald	
SGT02	Zihlschlacht	
SGT03	Degersheim	
SGT04	Schlatt-Haslen	
SGT05	Eggersriet	
SGTA	Sant Agata di Puglia	
SGU	Sterling	
SGV	South Grapevine Mountains	
SGW	Sigmaringen-Wittberg	
SGY	Signy Island	
SGZ	Semigandzh	
SH-	Shamokin	SH-PA
SH2	Sharm el Sheik	
SHA	Spring Hill	
SHA1	Shidzhatmaz	
SHAB	Shabla	
SHAO	Shalim	
SHAP	Saphane-Kutahya	
SHAR	Shatzhatmas	
SHB	Sechelt	
SHBG	Sahibganj	
SHBJ	Al Shahba	
SHBL	Chebaa	
SHBS		
SHC	Mount Saint Helena	
SHD	Sha@18hru@18d	
SHDB	Maple Bay	
SHE	Samaxi	
SHEE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
SHEL	Horse Pasture	
SHEM	Shemya Is, Alaska	
SHF	Shawinigan Falls	
SHG	Shirttail Gulch	
SHGH	Shai Hills	
SHGO	Shushtar	
SHGR	Shooshtar-Gavsavar	
SHH	Sheep Hole Mountains	
SHHB	Siheung-si	
SHI	Shiraz	
SHI1	Shinkiari	
SHID	Shide	
SHIN	Springhill	
SHIO	Shillong	SHL
SHIU	Shidnytsya	
SHIV	Shivlakha	
SHJ	Shiono misaki	
SHK	Shiraki	
SHKI	Saki	
SHL	Shillong	
SHLN	Saint Helena Island	
SHLS	Shalkode	
SHLY	Spokane Temp K2 (Swanson)	
SHM	Shimizu	
SHME	Shamm	
SHMJ	Saham	
SHMP	Susana Heights	
SHMS		
SHN	Shimonoseki 3	
SHN1	Shimonoseki	
SHN2	Shangus	
SHNJ	Shimonoseki 2	
SHNS	Shenavan	
SHO	Shikotan	
SHO1	Shori	
SHOA	Shoalbay	
SHOC	Shoshone, Tecopa	
SHOH	Showa-Shinzan	
SHP	Santa Helena	
SH-PA	Shamokin	
SHPR	Sheep Range	
SHQ	Saint-Hilarion	
SHR	Shirakawa	
SHRA	Al Sharaya	
SHRD	Shirahama	
SHRF	Sharaf	
SHRG	Sheep Range	
SHRJ	Shirakawa 2	
SHRM	Sharm el Sheik	
SHRO	Shahrood	
SHRR	Shira	
SHRT	Shahrakht	
SHS	Shasta Dam	
SHT	Sharpitor	
SHTH	Shelter house	
SHTK	Zheleznogorsk-3, Russia	
SHTN	Sandy Hook	
SHTS	Shaartuz	
SHU	Shuyak Island	
SHUI	Shui	
SHUK	Shuksan-Mt. Baker Ski Area	
SHUT	Suhut-Afyon	
SHV	Shimbara	
SHVB	Paradis Home	
SHW	Mount Saint Helens	
SHWJ	Shawbak	
SHY	Shemya	
SHYM	Surrey Hills	
SHZ	Shizuoka	
SHZ3	Shizuoka 3	
SHZE	Shinhuzimiza	
SHZJ	Shizuoka 2	
SI-	Smithers	SI-BC
SI2	Simi Peak	
SIA	Xi'an	
SIA1	Siatista	
SI-BC	Smithers	
SIBI	Sibayak Dolok	
SIBR	Sibiu	
SIC	Sept Iles	
SICA	Sicasica	
SICH	Sidi Chahed	
SID	Sida	
SIE	Siena	
SIEB	Ecole de Borzuat	
SIERE	Sierre	
SIG	South Ingalls	
SIGR	SIGRI	
SIH	Signal Hill	
SII	Sitkinak Island	
SIJI	Sorong	
SIL	Silver Peak	
SILAM	Silistra	
SILB	Sidney Island	
SILC	Silvia	
SILE	Correggio--Silva	
SILI	Silifke-Mersin	
SILO	Sutton Inlier	
SILR	SILCHAR	
SILT	Sile	
SIM	Simferopol'	
SIM1	UHE Simplicio	
SIM2	UHE Simplicio	
SIMA	Simav-Kutahya	
SIMG	Tanzanite One Mining	
SIMI	Simarbalatuk	
SIMPL	Simplonpass	
SIMR	Simon	
SIMRM	Sittwe	
SIN	Shinagawa	
SINB	Sinanoba-Istanbul	
SIND	Sindeldorf	
SING	Singapore	
SINGM	SINGM	
SINGT	Singida	
SINI	Singah	
SINN	Sindhuli	
SINO	SINOP_Merkez	
SINP	Sinop	
SINS	Interlaken, Schloss	
SIO	Slick	
SIOM	Sion-Mayennets	
SIOO	Sion-Ophtalmol	
SIOV	Sion-Valere	
SIP	Shinkiari	
SIPA	Siparia	
SIPH	Barangay Tapao	
SIPM	Chiapas	
SIPP	Brgy, Tapao	
SIPV	Sipayare	
SIQV	Siquisique	
SIR	Siria	
SIRB		
SIRC	Yozgat	
SIRI	Monte Sirino - Moliterno	
SIRN	S¯–rnak	
SIRR	Siria	
SIRT	Sirnak	
SIS	Sion	
SISB	Singen-Schiener Berg	
SISC	Sisak	
SISG	Sisimiut, Greenland	
SISI	Saibi	
SIT	Sitka	
SIT2	Siteia	
SIU	Simushir	
SIUC	Southern Illinois University	
SIV	San Ignacio	
SIVA	Sivas	
SIW	Isle of Wight	
SIY	Silver City	
SIZ	Stewart Island	
SIZA	Siya@14za@14n	
SJ-	San Jose (USA)	SJ-TX
SJA	San Juan	
SJAC	San Juan de Arama, Meta	
SJAF	Saint Jean de L'Alberes	
SJAS	San Jacinto	
SJB	Cape Saint James	
SJC	San Javier	
SJCC	San Jacinto, Colombia	
SJCH	San Jose de Maipo	
SJES	Sjenica	
SJG	San Juan	
SJGC	San Juan (W)	SJG
SJH	Saint Joseph Seminary	
SJI	Sawahan	
SJID	Saint Joe	
SJM	San Jose Maipo	
SJM1	San Juan de la Maguana	
SJMB	Sao Joao De Manteninha	
SJMO	Saint John's Bayou	
SJMP	San Jose	
SJN	San Juan, Peru	
SJNN	Saint John's	
SJP	San Juan	
SJPF	Ste Jean	
SJQ	San Joaquin Reservoir	
SJR	San Jose	
SJRM	San Jeronimo	
SJS	Escuela Geologia	
SJT	SanJuan Tecuaco	
SJ-TX	San Jose	
SJU	San Juan	
SJUU	Sjulsmark	
SJUZ	Santa Julia	
SJV	Saint John	
SJVR	San Javier	
SJX	San Joaquin	
SK-	Shamrock	SK-TX
SKA	Skalstugan	
SKAF	Kaiseraugst-Friedh	
SKAG	Skagway	
SKAR	Skarslia	
SKB	Skidegate	
SKBJ	Kato	
SKC	Skalna	
SKD	Sitkalidak Island	
SKDA	Skikda	
SKDB	Saint Kitts 2	
SKDS	Skadanscina	
SKG	Skaggs Springs	
SKGA	Skagway School	
SKH	Sakata 2	
SKHT	Srikalahasti	
SKHZ	Khezeriat	
SKI	Saint Kitts	
SKIA	Skiathos	
SKJI	Sukabumi	
SKK	Sikka	
SKL	Skilak	
SKLT	Songkhla	
SKLY	Ski Hill Lift	
SKMP	Bagumbayan, Sultan Kudarat, Philippines	
SKN	Skaneateles	
SKNT	Sakolnakorn	
SKO	Skopje	
SKO1	Skopelos Island	
SKOC	St. Kitts, UWI Open Campus	
SKOR	Skordalos	
SKP1	Kophill	
SKR	Severo-Kuril'sk	
SKR1	Skardu	
SKSI	Soroako, Sulawesi	
SKT	Skwentna	
SKT*	Shikotan	SHO
SKTB	Turtle Beach	
SK-TX	Shamrock	
SKU	Sakura	
SKW	Shichikawa	
SKY	Skiros Island	
SKY1	Skyros Island	
SKZ	Skazka	
SL-	Sault Ste Marie	SL-ON
SL6*	Punta Lena	
SLA	San Lorenzo	
SLAC	Saint Lucia, Anse Canot	
SLAF	St Laurent du Var	
SLAT	Slait	
SLB	Belfond	
SLBB	Yuanshan	
SLBC	Solana Beach	
SLBI	Saint Lucia, Bisee	
SLBQ	St-Lucie-de-Beauregard	
SLBR	Solanea	
SLBS	Sierra La Laguna	
SLC	Salt Lake City	
SLCN	Sala Consilina	
SLCP	Castries, St. Lucia	
SLCR	Slobozia Conachi	
SLD	San Luis Dam	
SLDE	Delcer	
SLE	Schleitheim	
SLEB	Sale Mountain	
SLES	Espargos	
SLF	Silifke	
SLFK	Silifke-Mersin	
SLFW	Sugar Loaf	
SLG	Sinonel	
SLGI	Shiliguri	
SLGT	Liugui	
SLHN	Bing¯¶l/Solhan-Merkez	
SLI	Saint Lucia	
SLIT	Slitere, Latvia	
SLK	Susurluk	
SLKI	Saumlaki	
SLKM	Skilak Lake	
SLKY	Flemingsburg	FLKY
SLL	Stollet	
SLM	Saint Louis	
SLMH	Al Salmeh	
SLMT	Seeley Lake	
SLN	Salinas	
SLNA	Salina	
SLNF	Slenfeh	
SLNR	Muhor-Tarhata, Altay Republic, Russia	
SLNS	Linosa	
SL-ON	Sault Sainte Marie	
SLP	San Antonio	
SLP01	Ubatuba-SP	
SLPA	Patience	
SLPE	Piton Saint Espirit	
SLPK	Sellapark	
SLQ	Saint Louis du Ha Ha	
SLR	Silverton	
SLS	Soengei Langka	
SLT	Salta	
SLTA	Morne Tabac	
SLTC	Salton Sea Test Base	
SLTI	Sal'it	
SLTM2	Linthal, Matt	
SLTN	Sullivan	
SLU	San Luis	
SLUB	Luzern Bramberg	
SLUK	Luzern Kirche, LU	
SLUM	Salum	
SLUW	Luzern Werkhofstrasse	
SLUZ	Luzern Zentralbibliothek	
SLV	Seldovia	
SLVN	Son La	
SLVR	Solovky	
SLVT	Silivri	
SLW	Petit Monier	
SLWS		
SLX	San Luis Rˆ›o Colorado	
SLY	Sulaymaniyah	
SM-	Seymour	SM-TX
SMA	Summerton	
SMA1	SAN MARTINO	
SMAA	Simav-Kutahya	
SMAF	Mauren, Feuerwehr, FL	
SMAI	San Martin Antarctic Base	
SMAJ	Sumiya	
SMAM	San Marcos	
SMAO	Martigny, Rue dOctodure	
SMAR	Somma	
SMAV	Semnan-Aivanekay	
SMB	Samaipata	
SMB1	Colle San Martino	
SMBI	Sixmile Butte	
SMC	Somerset	
SMCB	Saint Mary's College	
SMCF	Saint Martin du Canigou	
SMCN	San Marcos	
SMCO	Snowmass	
SMCQ	St-Marc-des-Carrierˆores	
SMD	Mendips	
SMDO	Samad	
SMDT	Samandagi	
SME	Santa Rosa Mine	
SMET	Mascalucia	
SMF	Signal de Mont	
SMG	Samos	
SMGA	Sumqayit	
SMGT	Moghavemat	
SMI	Simla	
SMIA	Simia	
SMIG	San Miguel	
SMJ	Shimohsa	
SMJD	Shimonomoto	
SMJM	Simojovel	
SMK	Shimokamo	
SMKB	Mukjeong-gil	
SMKI	Samarinda	
SMKR	Semkarok	
SMKY	Sacramento	
SML	Sawmill	
SMLA	Simla	
SMLC	San Martˆ›n de Loba, Colombia	
SMLN	Simpson Lake, Nunavut	
SMLT	Sun Moon Lake	
SMM	Ste Marie-Mines	ECH
SMMC	Simmler	
SMMM	San Miguel	
SMMS	Six Mile Mountain	
SMN	Sleeping Mountain	
SMN1	Samana, DR	
SMNB	Stockdale Mountain	
SMNC	South Mountain	
SMNM	San Marcial	
SMNR	Sumner High School ANSS-SMO	
SMO	Santa Rosa Mountain	
SMOL	Smolenice	
SMP	Somplago	
SMPI	Sarmi	
SMPL	Sampolo	
SMPN	Simpson Lake	
SMPP	San Manuel, Pangasinan, Philippines	
SMQ	Clarke City	
SMR	Semeru Mts	KEL
SMRC	Santa Marta, Magdalena	
SMRD	Mared	
SMRF	Simiane la Rotonde	
SMRH	Sumara - IBB Gov. - Yemen	
SMRI	Semarang	
SMRK	Smrekonice	
SMRM	Smir	
SMRT	St. Maarten	
SMS	Samos	
SMSC	Smeltzer Mountain	
SMT	Sultan-Mazar	
SMTB	Santa Maria do Tocantins	
SMTC	Superstition Mountain	
SMTH	Samothraki Island	
SMTM	Monte Santa Maria Tiberina	
SMTN	Short Mountain	
SM-TX	Seymour	
SMU	Sunnyside Mine	
SMUK	Muraz-Klaeranlage	
SMUR	Muraz-Reservoire	
SMV	Samsville	
SMW	South Mountain	
SMWM	Sugarloaf Mountain West	
SMX	San Miguel	
SMY	Shemya	
SMZW	Muttenz-Waldhaus	
SN-	Sunflower	SN-AZ
SN1	Capo Mulini Mare	
SNA	Sanae	

Code	*Station Name*	*Other*
SNAA	Sanae	
SNAL	S. Angelo Dei Lombardi	
SNART	Snartemo	
SN-AZ	Sunflower	
SNB	Saturna Island	
SNC	San Nicolas Island	
SNCC	San Nicolas Island	
SND	San Diego	
SNDA	J Saunders Place	
SNDB	Serra Nova Dourada	
SNDC	Sand Canyon	
SNE	Sinegor'e	
SNES2	Neuenburg, Observatorium, NE	
SNET	Serv Nac Est Terr	
SNF	Seneffe	
SNG	Songkhla	
SNGE	Sanandaj	
SNGI	Sangi-Kar	
SNGR	Sinegor'e	
SNGS	Sinegor'e	
SNGZ	Shannon Station	
SNH	Sunshine Point	
SNH1	Catey	
SNI	Sanriku	
SNIB	St. Niklaus Bahnhofstrasse	
SNIO	Spokane Nat. Inst. Occ. Safety SMO	
SNIWA	Snively Ranch	
SNJ	Sinj	
SNJE	San Jose	
SNJI	Sawahan-Nganjuk, JISNET	
SNJR	Sundja	
SNJT	Kaohsiung City	
SNK	Salina	
SNKA	Sanak Island	
SNKN	Sanikiluaq	
SNL	Sevenhill	
SNLN	Sandy Lake, NWT	
SNM	Socorro	
SNN	Xining	
SNO	Snow College	
SNOP	Sinop	
SNOW	Snow King Mountain	
SNP	Sonepat	
SNPH	Sibulan	
SNPN	Snap Lake	
SNPY	Stony Point	
SNQN	Sanikiluaq	
SNQU	Santaquin	
SNR	Schaffner Ranch	
SNR3	Senerchia	
SNS	San Onofre	
SNSI	Sinabang, Aceh	
SNST	Tainan City	
SNT	Sears Point	
SNT1	Gialos, Santorini	
SNT2	Vlychada, Santorini	
SNT3	Karterados, Santorini	
SNT5	Nea Kammeni, Santorini	
SNTD	Shikano	
SNTG	Esanatoglia	
SNU	Stansbury North	
SNUT	Stansbury North	
SNVI	San Vicente	
SNX	Sinaia	
SNY	Shenyang	
SNZ	Senzan	
SNZO	South Karori	
SO-	Sorel	SO-QB
SOA	Owia	
SOB	Sobradinho	
SOB1	Sobradinho	
SOB2	Sobradinho	
SOB3	Sobradinho	
SOB4	Sobradinho	
SOC	Sochi	
SOCH	Soche	
SOCV	Socops	
SOCY	Socotra	
SOD	Sodankyla@14	
SODA	Al Sooda	
SOE	Somerset East	
SOEG	Soedalen	
SOEI	Soe	
SOF	Sofiya	
SOFL	Sornfelli, Faroe Islands	
SOFT	Gaziantep	
SOG	Santiaguito	
SOG2	Santiaguito 2	
SOH	Sokhos	
SOHO	SOHO	
SOI	Samo	
SOIM	Smimou	
SOKA	Soboth	
SOKB	Sooke	
SOKR	Solikamsk	
SOKY	Sonora	
SOL	Solontsovaya	
SOLB	Solothurn Schulhaus Br^…hl	
SOLC	Bahia Solano	
SOLO	Sioux Lookout	
SOLU	Sollefteaa	
SOLUN	Solunto	
SOLZ	Solothurn, Zeughausgasse	
SOM	Sombrero	
SOMN	Somoto	
SON	Sonneberg	
SONA	Sohna	
SONA0	Songino Array Site A0	
SONA1	Songino Array Site A1	
SONA2	Songino Array Site A2	
SONA3	Songino Array Site A3	
SONA4	Songino Array Site A4	
SONB1	Songino Array Site B1	
SONB2	Songino Ar. Site	
SONB3	Songino Array Site B3	
SONB4	Songino Array Site B4	
SONB5	Songino Array Site B5	
SONE	Songea	
SONG	Songo	
SONM	Songino Array Beam Reference Point	
SONS	Sonsonate	
SONY	Sodus	
SOO	Sioux Lookout	
SOP	Sopron	
SO-QB	Sorel	
SOR	Soroa	
SORM	Soroca	
SORT	Sorpetalsperre	
SOS	Soda Springs	
SOSW	Source of Smith Creek	
SOTA	Rioblanco	
SOTR	Stolb	
SOTS	Sotra	
SOU	Souberoche	
SOUA	Southern Oregon Univeristy DOGAMI SMO	
SOV	Savoonga	
SOX	Sue Hot Springs	
SOYA	Soyapango	
SP2	Seward Park 2	
SP7	Salto Pilao - PR	
SPA	South Pole	
SPA0	Spitsbergen Array Site A0	SPITS
SPA1	Spitsbergen Array Site A1	
SPA2	Spitsbergen Array Site A2	
SPA3	Spitsbergen Array Site A3	
SPAK	Spaichingen-Kochelsberg	
SPB	Sao Paulo	
SPB1	Spitsbergen Array Site B1	
SPB2	Spitsbergen Array Site B2	
SPB3	Spitsbergen Array Site B3	
SPB4	Spitsbergen Array Site B4	
SPB5	Spitsbergen Array Site B5	
SPBA	Sand Point BB	
SPBC	San Pablo de Borbur, Boyac^¡	
SPBG	Spurr Blockage Glacier	
SPC	Skalnate-Pleso	
SPCG	Spurr Capps Glacier	
SPCH	San Pedro de Atacama	
SPCI	Split Crater	
SPCN	Chakachatna North Broadband	
SPCP	Crater Peak Broadband	
SPCR	Spurr Chakachatna River	
SPD	Saint Peter's Dome Lookout	
SPE	Xi'an	XAN
SPF	St-Paul-en-Foret	
SPFD	Spotsylvania Fire Department	
SPG	Saltpond	
SPG2	Springville 2	
SPH	San Pedro Hill	
SPI	Saint Paul Islands	
SPIA	Saint Paul Island	
SPIE	Spinoso	
SPIF	cr^"te de Spivol - 06156, Venanson - Alpes-Maritimes - Provence-Alpes-C^·te d'Azur	
SPIG	San Pedro Martir	
SPIN	Swan Pond Ditch	
SP-IS	Saint Paul	
SPITS	Spitsbergen Array Beam Reference Point	
SPIZ	Spitak	
SPJ	Spur Tree	
SPJN	Shinpukuji	
SPK	Scotts Peak	
SPL	Spiridon Lake	
SPLB	Strathcona Park Lodge	
SPM	Ship Mountains	
SPMN	Marine on St. Croix	
SPN	Mys Shipunski	
SPN5	Spine 5 MSH Spider	
SPNC	Sapanca-Adapazari	
SPNN	North Nagishlamina, Mt. Spurr	
SPNW	Spurr Northwest	
SPNY	Stone Ridge	
SPO	Spokane	
SPP	Saint Paul	
SPP1	Sappes Rodopi	
SPR	Saint Pierre	
SPRD	Spring Road, Mineral	
SPRG	Spotted Range	
SPRM	Split Rock	
SPS	San Pedro Poas	
SPSI	Sidrap Palu	
SPSY	Saint Peters School	
SPT	South Point	
SPU	Mount Spurr	
SPUT	South Promontory Point	
SPV	Sa-pa	
SPVI	Shoe Peg Valley	
SPW	Seward Park	
SPWE	Spurr West	
SPX	San Pedro Martir	
SPY	Shingle Point	
SPY1	Spijk (Roodeschool)	
SPY2	Spijk (Roodeschool)	
SPY3	Spijk (Roodeschool)	
SPY4	Spijk (Roodeschool)	
SPZA	Spitak	
SQF	Squaw Harbor	
SQ-IS	Shemya	
SQK	Squaw Creek	
SQM	Sequim	
SQR	Saqqara	
SQTA	Sankt Quirin	
SQU	Squaw Peak	
SR-	Sparta	SR-OR
SRA	San Ramon	
SRA1	San Ram^‡n	
SRAK	Srakaew	
SRAT	Sarat Abidah	
SRB	Samuel	
SRBC	Serra Branca	
SRBF	Surbourg	
SRBI	Singaraja	
SRC	Salinas Radio Site	
SRCG	Sart'ichala	
SRCK	Saricakaya, Eskisehir	
SRD	San Andres	
SRDI	Scrawed	
SRDR	Sredinnyy	
SRDT	SRDT	
SRE	Strehaia	
SRER	Reinach, Rainenweg	
SRES	S.Oreste - Soratte	
SRF	Snake Ranch	
SRFA	Sharaf	
SRG	Seaman Range	
SRH	Rilland Hill	
SRHB	Riehen-Baumlih	
SRHE	Riehen, Erlenstr^sschen, BS	
SRHH	Riehen, Zur Hoffnung, BS	
SRI	Sefi@18d Ru@18d	
SRIG	Santa Rosalia	
SRIN	SRINAGAR	
SRIT	Nakonsritamarat	
SRJ	Sugihara	
SRJD	Shirakawa	
SRK	Sredniy Kalar	
SRKG	Sareki	
SRKR	Sorokina	
SRL	Santa Rosalia	
SRLM	Srisailam	
SRLN	Sarcpa Lake, Nunavut	
SRM	Socorro	
SRMB	Sarakhs	
SRMH	Minami-Gairin	
SRMY	Scherman	
SRN	Sarande	
SRN3	Sant'Arsenio	
SRNB	Snider Mountain Ranch	
SRNI	Srinagar	
SRNR	Reinach, Reinacherhof	
SRO	Srobarova	
SRO1	Iza	
SRO2	Moca	
SR-OR	Sparta	
SRP	Santa Rosa	
SRPD	Savannah River	
SRPE	Suurupi	
SRPI	Serui, Papua	
SRPN	Savannah River	
SRPW	Savannah River	
SRQ	San Roque	
SRR	Isla Socorro	
SRRS	Sarahart	
SRS	Serrai	
SRSP	Sriramsagar	
SRT	Sarutani	
SRTC	Snort	
SRTM	Siirt_Merkez	
SRU	San Rafael Swell	
SRV	Santa Rosalia	
SRY	Shiroyama	
SS-	Sanderson	SS-TX
SS01	Susuman-Seymchan profile, station 01	
SS02	Susuman-Seymchan profile, station 02	
SS03	Susuman-Seymchan profile, station 03	
SS04	Susuman-Seymchan profile, station 04	
SS05	Susuman-Seymchan profile, station 05	
SS06	Susuman-Seymchan profile, station 06	
SS07	Susuman-Seymchan profile, station 07	
SS08	Susuman-Seymchan profile, station 08	
SS09	Susuman-Seymchan profile, station 09	
SS10	Susuman-Seymchan profile, station 10	
SS2	San Sevaine	
SS40	Seymchan - Ulakhan Temp Deploy	
SS41	Seymchan - Ulakhan Temp Deploy	
SS42	Seymchan - Ulakhan Temp Deploy	
SS62	Tal-Yuryakh Coal Mine	
SSA	Susara	SSR
SSAN	Sangsangzhen, Xizang Zizhiqu	
SSB	Saint Sauveur en Rue	
SSB3	San Sossio Baronia	
SSBA	Shishaldin	
SSC	Saint Sauveur de Carouges	
SSCN	Schweizerhalle, Novartis	
SSCV	Sassocorvaro	
SSD	Sandimen	
SSE	Sheshan	
SSF	Saint Saulge	
SSF1	Saint Saulge	
SSFR	Montelago di Sassoferrato	
SSG	Sans Toucher	
SSH	Sunshine	
SSHG	Shadegan	
SSI	Semisopochnoi Island	
SSIB	Saltspring Island	
SSJ	Shinshu-shinm'i	
SSK	Sunset Peak	
SSKY	Summer Shade	
SSL	Sunset Lake	
SSLB	Suanglung	
SSLN	Shishaldin North	
SSLS	Shishaldin South	
SSLW	Shishaldin West	
SSM	Saint Martial	
SSM1	San Severino Marche	
SSN	San Juan del Sur	
SSNN	San Juan del Sur	
SSNO	Creighton Mine,Sudbury	
SSO	Sasso d'Italia	
SSOR	Sweet Springs	
SSP	Shoshone Peak	
SSP1	Stoney Pound	
SSP9	Sansepolcro	
SSPA	Standing Stone	
SSPT	Xinbi	
SSQ	Sandspit	
SSR	Susara	
SSS	San Salvador	
SSS1	John Stanford Center Downhole Anss-SM	
SST	Susitna	
SS-TX	Sanderson	
SSU	San Pedro Sula	
SSUO	Shawnee State University	
SSV	Crater Summit	
SSV2	Sao Salvador	
SSW	Stow on the Wold	
SSX	SS1	
SSY	Sortino	
SSYS	Sasyr	
SSZ	Sekisonzan	
ST-	Stillwater	ST-NV
ST00	South Deqen	
ST01	Deqen	
ST01S	Kamchatka temporary site	
ST02	North Deqen	
ST02S	Kamchatka temporary site	
ST03	South Boqe	
ST03S	Kamchatka temporary site	
ST04	Boqe	
ST05	North Boqe	
ST06	East Boqe	
ST07	Xuru	
ST08	North Xuru	
ST09	South Palgon	
ST1	Streeter	ST1TX
ST10	Palgon	
ST11	North Palgon	
ST12	Maintong	
ST12A	North Maintong	
ST13A	West Mington	
ST14	South Pangkog	
ST14A	Pangkog	
ST15	North Pangkog	
ST15A	South Serting	
ST16	Serting	
ST16A	Northeast Serting	
ST17	North Serting	
ST17A	South Bangong	
ST18	Southwest Bangong	
ST18A	East Bangong	
ST18S	Temporary aftershock station near Magadan	
ST19	Bangong	
ST19A	North Bangong	
ST1S	Stepanavan 1	
ST1TX	Streeter	
ST2	Streeter	ST2TX
ST20	Northwest Bangong	
ST20S	Temporary station #20	
ST21	South Bangong Suture	
ST21A	Bangong Suture	
ST21S	Temporary station #21	
ST22	North Bangong Suture	
ST22A	Northwest Bangong Suture	
ST22S	Temporary station #22	
ST23	Southeast Heping	
ST23A	Southwest Heping	
ST23S	Temporary station #23	
ST24	South Heping	
ST25	Heping	
ST25A	North Heping	
ST26	Southwest Doima	
ST26A	South Doima	
ST27	Doima	
ST28	North Doima	
ST29	Northeast Doima	
ST2S	Stepanavan 2	
ST2TX	Streeter	
ST30	West Twin Lake	
ST31	Northwest Twin Lake	
ST32	South Thanglha	
ST33	South Jangngalda	
ST34	Jangngalda	
ST35	North Jangngalda	
ST36	Nowhere	
ST37	North of River	
ST38	More Nowhere	
ST39	Middle Nowhere	
ST4	Streeter	ST4TX
ST40	Last Nowhere	
ST4TX	Streeter	
ST7	Stepanavan 7	
STA	Satara	
STA0	Thessaloniki S.S. Downhole	
STA1	Thessaloniki S.S. Downhole	
STAB	Staufenbuehl	
STAF	Tafers	
STAL	STALIGIAL	
STAN	Stanford	
STAR	Star City	
STAT	Sint Eustatius	
STAU	Staufen im Breisgau	
STAV	Stavanger	
STAX	Taxiarchis Harbor, Nea Kameni, Santorini Island.	
STB	Steinbach	
STC	Stone Canyon Observatory	
STCC	Santa Clara	
STCH	Steam Cracks	
STCO	Saint Catharines	
STCR	Santa Cruz	
STCW	Studenec	
STD	Studebaker Ridge	
STDB	Stepnoy Dvorets	
STDG	Sesta Godano	
STDO	Santo Domingo	
STDR	Stavd-Durt	
STE	Stepanavan	
STEI	Steigen	
STEIN	Stein am Rhein	
STEP	BALIKESIR_Savastepe	
STET	Saint-Etienne-de-Tinee	
STEW	Steamboat Mountain	
STEZ	Stepenevan	
STF	Statfjord A Platform	
STFAR	Stefanesti-Arges	
STFQ	Sainte-Ursule	
STFR	Stefanesti	
STG	Strathgordon	
STGK	St. Gallen Kloster	
STGR	Santa Cruz	
STGV	Strathgordon Vge	
STH	Stony Hill	
STHS	Stebnicka Huta	
STI	Star Valley	
STIA	Sitia Lasithi	
STID	Stanley	
STIEG	Stiegenhof Hundestation	
STIL	E St Louis HE Ctr	
STIP	Stip	
STJ	Saint John's	
STJA	Cape St.James	
STJN	Saint John's	

Code	Station Name	Other
STK	Stephens Creek	
STKA	Stephens Creek	
STKI	Sintang	
STKP	Saint Kitts	
STKZ		
STL	Santa Lucia	
STL1	Stavrpu;p[is Thessaloniki	
STLK	Strandline Lake	
STLN	Stellar Camp, Hudson Bay	
STLY	Stiles	
STM	Slate Mountain	
STMA	St. Maarten, Airport	
STMI	Saint Michael	
STMT	Stillwater Mine	
STN	Seatoun	
STN3	Satriano di Lucania, Italy	
STNC	Stoke	
STNU	Starunia	
ST-NV	Stillwater	
STO	Stonyhurst	
STOF	St-Etienne Orgue	
STOK	Stokkvaagen	
STOK1	Konsvik	
STOK2	Flostrand	
STON	Ston	
STOQ	Stoneham	
STP	Stepladder Mountains	
STPQ	St-Pascal	
STPRA	Salt Prairie Lookout Tower, Alberta	
STR	Strasbourg	
STR2	Strathalbyn	
STR3	STROMBOLI 3	
STR4	STROMBOLI 4	
STR5	Stromboli 5	
STRD	Stroud	
STRE	Sannotorii	
STRR	Strizhament	
STRS	Struganik	
STRU	Stroemstad	
STRW	Triesenberg, Werkhof, FL	
STS	Santiago	
STSP	Tschierv	
STT	Seattle	
STTC	Scott Ranch	
STU	Stuttgart	
STUQ	Sainte-Ursule	
STV	Sant Anna di Valdieri	
STV2	Sant' Anna di Valdieri 2	
STVI	Saint Thomas	
STW	Striped Peak	
STW1	West of Nyma	
STWA	Stillwater	
STX	Station 2	
STY	Stony River	
STYT	Tauyuan	
STZ	Stratford	
STZU	Stuzhytsa	
SU-	Schuyler	SU-VA
SUA	Susitna One	
SUBF	Surbourg	
SUC	Sucre	
SUCA	Sunchang	
SUCK	Suckling Hills	
SUCO	SUCO	
SUD	Sudbury	
SUDU	Sudak	
SUE	Sulen	
SUF	Sumiainen	
SUFF	Suffern	
SUG	Sugar Island	
SUH1	Surhuizum	
SUH2	Surhuizum	
SUH3	Surhuizum	
SUH4	Surhuizum	
SUI	Sui-hua	
SUK	Suckling Hill	
SUKH	Sukhothai	
SUKT	Sukute	
SUL	Sulphur Creek	
SULB	Vanderhoof	
SULJ	Sultana	
SULR		
SULT	Sultanhani-AKSARAY	
SULZ	Cheisacher	
SUM	Sumoto	
SUMB	Sumbawanga	
SUMG	Summit	
SUN	Sunnyside	
SUNK	Sunasenri	
SUNO	Sudbury Onaping	
SUO	Sudbury	
SUP	Superstition Mountain	
SUR	Sutherland	
SURA	Surathani	
SURC	SANLIURFA_SURC	
SURF	Saint Ours	
SURI	Summit Reservoir	
SURT	Suratani	
SURV	Survey Creek	
SUS	Susaki	
SUSD	Miller	
SUSE	Susehri	
SUSZ	Shushi	
SUT	Suttsu	
SUT1	Suttsu	
SUTB	Sutter Butte	
SUTC	Sutluce-Isparta	
SUU	Santaquin Canyon	
SUUS	Susuman	
SUV	Suva	
SU-VA	Schuyler	
SUW	Suwalki	
SUZ	Suez	
SV-	Springerville	SV-AZ
SV2	Schefferville	SV2QB
SV2QB	Schefferville	
SV3	Schefferville	SV3QB
SV3QB	Schefferville	
SVA	Suva	
SVAM	Vaz, Muldain	
SVAN	Silvan-Diyarbakir	
SVAU	Svanoeiden	
SV-AZ	Springerville	
SVB	Belmont	
SVBS	Severo-Baykalsk	
SVC	Silver Creek	
SVCV	St. Vincent, Congo Valley	
SVD	Seven Oaks Dam	
SVE	Sverdlovsk	
SVG	Indian Gallows	
SVGA	Savoonga	
SVI	Saint Vincent	
SVIL	Visp Littennaring	
SVIN	Saint Vincent's CYO School for Boys, San Rafael	
SVIO	Visp Obere Stapfengasse	
SVIS	Svilajnac	
SVIT	Visp-Terbinerstrasse	
SVK	Severo-Muysk	
SVKR	Severomuysk	
SVL	Baleine	
SVLR	Shiveluch	
SVM	Silver City	
SVMA	Madeiral	
SVMT	Summit Valley	
SVN	Savane Anatole	
SVNB	Stilesville Quarry	
SVO	Savo	
SVOC	Richmond Hill, Kingstown, St. Vincent	
SVOH	Skagit Valley Community College ANSS SMO	
SVP	Silver Peak Range	
SVR	Savage River	
SVRC	Sivrice-ELAZID	
SVRH	Sivrihisar-ESKISEHIR	
SVS	Slandsville	
SVSK	Karacayir	
SVST	Sivas	
SVT	Saint Vincent	
SVT1	Savuti	
SVTA	Shivta	
SVTC	San Vito de Coto Brus	
SVTR	Two Rivers School, Snoqualmie Valley	
SVUR	Severouralsk	
SVV	Soufriere Volcano	
SVW	Sparrevohn	
SVW2	Sparrevohn	
SW-	Sweetgrass	SW-MA
SWA	Swan Island	
SWA1		
SWA2		
SWAJ	Obama	
SWAN	Swansea	
SWB	Southwest Bay	
SWD	Swaziland	
SWET	Sewanee	
SWFL	Southwest Flank Mount Saint Helens	
SWG	Swingate, Kent	
SWH	Southwest Rift	
SWHSA	Sweathouse Lookout Tower, Alberta	
SWI	Sorong	
SWID	South Whidbey SD ANSS-SMO	
SWIP	Sombrero	
SWK	Warminster	
SWL	Swaziland	
SWM	Sawmill	
SWM1	Swabi Mera	
SW-MA	Sweetgrass	
SWMT	Swartz Lake	
SWN	Stillwater	
SWN1	Swindon	
SWNG	Sheriff Wilson	
SWO	Sudbury	
SWP	Swamp Creek	
SWQJ	Swaqa	
SWR	Swabi-Maira	
SWS	Schriesheim-Wilhelmstollen	
SWSC	Sam W. Stewart, Westmorland	
SWT	Sachs Harbour	
SWTN	Sewanee	
SWV	Swan View	
SWXO	Sudbury	
SWZ	Schweizer	
SX-	Salem	SX-SD
SXG	Sacranix	
SXM	Sixmile	
SXO	Sioux Lookout	
SX-SD	Salem	
SXT	Sachs Harbour	
SY-	Stickney	SY-SD
SYA	Sidi Yaiche	
SYD	Sydney	
SYDH	Sydney Hard Rock	
SYDS	Sydney Soft Rock	
SYI	Shuyak Island	
SYJ	Shimoyama	
SYKR	Syktyvkar	
SYL	Syllakh	
SYO	Syowa Base	
SYON	Say'un	
SYP	Santa Ynez Peak	
SYR	Smyrna	
SYS	San Ysidro	
SY-SD	Stickney	
SYT	Seydisehir	
SYU	Syuhurei	
SYVJ	Yverdon-Jordils	
SYVP	Yverdon-les-Bains, rue des Philosophes	
SYVR	Suvo	
SYZ	Scrubby Hill	
SZ-	Shoal	SZ-NV
SZAC	Souni	
SZAF	Shezaf	
SZCU	Shurtz Canyon	
SZD1	Zahaedan-tmp	
SZE	Szeged	
SZER	Zernez	
SZG	Shizugawa	
SZH	Strazhica	
SZ-NV	Shoal	
SZO	Sudbury	
SZP	Santa	
SZUZ	Z^…rich, Zeughauswiese	
SZVM	Salazar	
T0101	Poggio Santa Maria	
T0102	San Vittorino	
T0103	L'Aquila	
T0104	Madonna delle Grazie (Coppito)	
T0105	Valle d'Ocre (Ocre)	
T0106	Roio Piano	
T0107	San Pelino (Cagnano Amiterno)	
T0108	Poggio di Roio	
T0109	Coppito (AQ)	
T0110	Collepietro	
T0201	Case Giovannangeli - (Balsorano -AQ)	
T0202	Vitale (Isola del Liri - FR)	
T0203	Casalattico (FR)	
T0204	Pescasseroli (AQ)	
T0205	Ridotti (Balsorano, AQ)	
T031	T031	
T034	T034	
T035	T035	
T036	T036	
T037	T037	
T038	T038	
T039	T039	
T0401	Montottone (Fermo)	
T0402	Abbadia di Fiastra (Tolentino)	
T043	T043	
T044	T044	
T0501	Spinello di Santa Sofia (FC)	
T0502	Localit^ San Martino (Sarsina - FC)	
T0503	Loc. Pratieghi (Badia Tedalda - AR)	
T052	T052	
T053	T053	
T054	T054	
T056	T056	
T057	T057	
T058	T058	
T059	T059	
T05C	Eagle Field, Dos Palos	
T061	T061	
T065	T065	
T066	T066	
T067	T067	
T068	T068	
T069	T069	
T06C	Millerton Lake Dam, Friant	
T070	T070	
T0701	Viggianello (PZ)	
T0702	Acquaformosa (CS)	
T071	T071	
T0711	Rotonda (PZ)	
T0712	Santa Domenica Talao (CS)	
T0715	Campotenese	
T0716	Rotonda - Contrada Piano Incoronata (PZ)	
T0724	Tremoli - CS	
T073	T073	
T074	T074	
T075	T075	
T076	T076	
T077	T077	
T0800	Massa Finalese, Finale Emilia (MO)	
T0802	SanFelice sul Panaro (MO)	
T0803	Dosso, Cento (FE)	
T0805	Bondeno (FE)	
T0811	Palata Pepoli (BO)	
T0812	Loc. Stoppiaro, Poggio Rusco (MN)	
T0813	Massa Finalese, Finale Emilia (MO)	
T0814	Loc. Cortile, Carpi (MO)	
T0815	Correggio (RE)	
T0816	San Bartolomeo in Bosco (FE)	
T0817	Loc. Veratica, Salara (RO)	
T0818	Loc. Fossa, Concordia sulla Secchia (MO)	
T0820	Chiesuol del Fosso FE	
T0821	Loc. Casaglia - Ferrara (FE)	
T0822	Casumaru (Bondeno - FE)	
T0823	Castello D'Argile (BO)	
T0824	Loc. Limidi di Soliera, Soliera (MO)	
T0825	Gonzaga (MN)	
T0826	Rio Saliceto (MN)	
T0827	Moglia (MN)	
T0828	Loc. Fossoli, Carpi (MO)	
T0911	Castelpoggio (MS)	
T0912	Minucciano (LU)	
T0913	Tendola (MS)	
T0914	Serretta (MS)	
T0915	Sillano (LU)	
T0916	Careggine (LU)	
T1011	San Potito Sannitico (CE)	
T1012	Faicchio (BN)	
T10G	T10G	
T11A	Corn Creek, Alamo	
T11G	T11G	
T12A	Moapa	
T12G	T12G	
T13A	Saint George	
T13G	T13G	
T14A	Hurricane	
T14G	T14G	
T14S	T14S	
T15A	Red Dirt Ranch, Kanab	
T15G	T15G	
T16A	Glen Canyon Dam (NPS), Page	
T16G	T16G	
T16S	T16S	
T17A	Navajo Res., Navajo Mountain	
T17G	T17G	
T18A	Mexican Hat	
T18G	T18G	
T18S	T18S	
T19A	Beclabito	
T19G	T19G	
T1BD	T1BD	
T1BG	T1BG	
T1MG	T1MG	
T21A	Navajo Lake, Ignacio	
T21G	T21G	
T22A	Edith	
T22G	T22G	
T23A	Casias Ranch, Antonito	
T24A	Torres, Weston	
T24B	San Luis	
T24G	T24G	
T25A	Trinidad	
T25G	T25G	
T26A	Comanche National Grassland Park, Kim	
T26G	T26G	
T27A	Campo	
T27G	T27G	
T28A	Walsh	
T28G	T28G	
T29A	Hugoton	
T29G	T29G	
T2BD	T2BD	
T2BG	T2BG	
T2MG	T2MG	
T30A	Plains	
T30G	T30G	
T30S	T30S	
T31A	Randall Ranch, Ashland	
T31G	T31G	
T32A	Huddler Ranch, Lake City	
T32G	T32G	
T33A	Patterson Ranch, Waldron	
T33G	T33G	
T34A	McClaskey Farms, Geuda Springs	
T34G	T34G	
T35A	Sooner Cattle Company, Foraker	
T35G	T35G	
T36A	Boggs Farm, Caney	
T36G	T36G	
T37A	Cheneyville 1850, Columbus	
T37G	T37G	
T38A	Diamond	
T38G	T38G	
T39A	Clever	
T39G	T39G	
T3BD	T3BD	
T3BG	T3BG	
T3MG	T3MG	
T40A	Mansfield	
T40G	T40G	
T40S	T40S	
T41A	Mountain View	
T41G	T41G	
T41S	T41S	
T42A	Van Buren	
T42G	T42G	
T42S	T42S	
T43A	Greenville	
T43G	T43G	
T44A	Benton	
T45A	Paducah	
T45G	T45G	
T46A	Princeton	
T46G	T46G	
T47A	Sharon Grove	
T48A	Bowling Green	
T48G	T48G	
T49A	Edmonton	
T49G	T49G	
T4BD	T4BD	
T4BG	T4BG	
T50A	Nancy	
T50G	T50G	
T51A	Gray	
T51G	T51G	
T52A	Hallie	
T52G	T52G	
T53A	Wise	
T53G	T53G	
T54A	Tazewell	
T54G	T54G	
T55A	Pulaski	
T55G	T55G	
T56A	Rocky Mt	
T57A	Hurt	
T58A	Grand View Acres	
T59A	Double "B" Farms	
T5BD	T5BD	
T5BG	T5BG	
T60A	Surry	
T60G	T60G	
T60S	T60S	
T61G	T61G	
T6BD	T6BD	
T6BG	T6BG	
T6MG	T6MG	
T7BD	T7BD	
T7BG	T7BG	
T7MG	T7MG	
T801	T801	
T802	T802	
T803	T803	
T804	T804	
T805	T805	
T806	T806	
T807	T807	
T808	T808	
T809	T809	
T810	T810	
T811	T811	
T812	T812	
T813	T813	
T814	T814	
T815	T815	
T816	T816	
T817	T817	
T818	T818	
T819	T819	
T820	T820	
T897	T897	
T898	T898	
T899	T899	
T8MG	T8MG	
T998	T998	
T999	T999	
T9BG	T9BG	
TA01	Diego Aracena	
TA02	Huaiquique	
TA1	Taranto	TTI
TAA	Terre Adelie	
TAB	Tabri@18z	

Code	Station Name	Other
TABB	Tabernacle Mountain	
TABL	Table Mountain	
TABN	Tabernacle	
TABS	Tabas	
TABU	Tabubil	
TAC	Tacubaya	
TACA	TACA	
TACH	Talagante	
TACO	Tacachico	
TACS	Tanaga Cape Sajaka	
TAD	Tadotsu	
TADQ	Tadoussac	
TAE	Taegu	
TAF	Taforalt	
TAF1	Taif	
TAFL	Tanaga Flats	
TAFP	Tanaga Falls Point	
TAG	Tarade	
TAGA	Panbu Gunsar	
TAH	Tahiti	
TAHR	Tahoe	
TAHT	Tahtakopru-Hatay	
TAHZ	Taraponui	
TAI	Tainan	
TAI1	Yung-k'ang	
TAI2	Tainan City	
TAIF	At Ta'if	
TAIS	Taisha	
TAIZ	Ta'izz	
TAJ	Tanegashima	
TAJ2	Tanegashima 2	
TAK	Takaka	
TAKK	Taka-dake	
TAKN	Takayama	
TAKO	Tahkenitch	
TAL	Talara	
TALB	Tatla Lake BC	
TALC	Talca	
TALL	Tallowa Pump Stn	
TALM	Tallowa	
TAM	Tamanrasset	
TAMB	Tambo	
TAMC	Tame, Arauca	
TAMH	Tambohuasha Chimborazo	
TAMR	Tamra	
TAMRE	El Minia	
TAN	Tananarive	
TANI	Tanete Lipujang	
TANM	Chiapas	
TANN	Tannenbergsthal	
TANO	Tanaga North	
TANS	Tal'yany, Baikal	
TANV	Tanna	
TAO	Talbingo	
TAOE	Nuku Hiva Island	
TAP	Taipei	
TAP1	Taipei	
TAPA	Tanaga Point Aries	
TAPN	Taplejung	
TAPR	Tapar	
TAR	Taranto	
TAR1	Taranto	
TAR2	Tarbela	
TARA	Tarawa	
TARAI	Tarakan	
TARG	Taragay, Kyrgyzstan	
TARW	Grand Targhee Resort	
TARZ	Mount Tarawera	
TAS	Tashkent	
TASB	TASBURUN-IGDIR	
TASE	Tanaga Southeast	
TASL	Snake Pit, Albuquerque Seismic Lab	
TASM	ASL Pad, Albuquerque Seismic Lab	
TASR	Tashtagol	
TAT	Tateyama	
TATC	Tatama	
TATH	Tatsuka	
TATJ	Tateyama 2	
TATM	Tatong	
TATN	Tataouine	
TATO	Taipei	
TATRI	Thathri	
TATS	Tathlith	
TATV	Tatvan	
TAU	Tasmania University	
TAUL	Tau Lekoa	
TAUS	Tauisk	
TAUT	Tautenburg	
TAV	Tavurvur	
TAV1	Tavarnelle	
TAVA	DENIZLI_Tavas	
TAVF	Tavernes	
TAW	Tawu	
TAWA	Tawang	
TAY	Tayabas	
TAYS	Tayyib Ism	
TAZ	Tarawera	
TBBG	TBBG	
TBC	Trig B	
TBG	Guadaloupe-3	
TBGR	Tabaga	
TBH	Brigand Hill	
TBI	Tubuai	
TBJI	Tambak Boyo	
TBK	Tabalakh	
TBKS	Tabuk	
TBL	Tabele	
TBLA	Tarbella	
TBLG	Delisi	
TBLU	Trondheim	
TBM	Table Mountain	
TBO	Thunder Bay	
TBP	Tagbilaran	
TBPA	Tacoma Substation	
TBR	Table Rock	
TBRR	Tiberkul'	
TBS	Tobishima	
TBS2		
TBT	Taburiente	
TBTG	Tabatinga, AM	
TBTR	Tabat	
TBVI	Tortola	
TBW	Brentwood	
TBY	Torsby	
TBZ	Trabzon	
TC-	T or C	TC-NM
TCA	Tanti	
TCBC	Telegraph Creek	
TCBU	Trout Butte	
TCC	Turnbull Canyon	
TCE	Chacachacare	
TCF	Toulx Ste Croix	
TCG	Tacana	
TCH	Chimkent	CHM
TCHB	Talchebab	
TCHG	Chaguaramas	
TCHL	Shandon	
TCHZ	Tchakhmakh	
TCK	Tuttle Creek Reservoir	
TCM	Tucuman	
TCMO	Camaiore	
TCN	Toconce	
TC-NM	Truth or Consequences (T or C)	
TCNV	Thirsty Canyon	
TCO	Three Creek Meadows	
TCOL	CIGO, UAF Yankovich Road, Fairbanks	
TCP	Tocopilla	
TCPM	Tecamachalco	
TCPZ	Tecapa	
TCR	Colchester	
TCRU	Three Creeks Reservoir	
TCSI	Telchick Spring	
TCSL	Casola in Lunigiana	
TCSO	Tacares	
TCT	Tennessee City	
TCU	Taichung	
TCUP	Taichung Port	
TCUT	Toone Canyon	
TCVU	Timpanogos Cave	
TCW	Tory Channel	
TCX	Tecpatan	
TCY	Tin City	
TD-	Tres Piedras	TD-NM
TDA	Talladega	
TDAG	Tekirdag	
TDBA	Terre de Bas, Les Saintes	
TDC	Trinidad (USA)	
TDC1	Tristan de Cunha	
TDCB	Techi	
TDD	Tadjoura Ara	
TDH	Tom, Dick, Harry Mountain	
TDJ	Tadjoura	
TDJR	Todzha	
TDK	Taldyqorghan	
TDL	Tradedollar Lake	
TDM	Tucson Desert	
TDMT	Tunduma	
TDN	Todenfeld	
TD-NM	Tres Piedras	
TDR	Todoroki	
TDS	Terranova Sibari	
TDT	Tavil'dara	
TDV	Tam Dao	
TE-	Thule	TE-GL
TEB	Eastbourne	
TEC	Tlemcen	
TEC1	Magadan Thermoelectric Plant	
TECA	Tecapa	
TECM	TEC LaTrobe	
TEE	Teeples Ranch	
TEGC	Jichi Village	
TEGH	Tema	
TEGI	Teggiano - Istituto P. Leto	
TE-GL	Thule	
TEH	Tehran	
TEHZ	Te Atua	
TEIG	Tepich	
TEJ	El Tejon	
TEK	Teekin	
TEKE	Tekeli-Mersin	
TEKS	Tekeris	
TEL	Teeli	
TEL3	Telica 3	
TELN	Telica	
TEM	Temuco	
TEME	Temeni, Aigialia, West Greece	
TEN	Tenerife	
TENA	Tena	
TEND	Ethiopian Broadband Seismic Experiment	
TEO	Teotitlan	
TEOL	Teolo	
TEP	Tecpan	
TEPE	Tepekoy-Mersin	
TEPK	Tepekoy-MERSIN	
TEPV	Terepaima	
TER	Terranova	
TER01	Tubarˆ£o-SC	
TERC	Ethiopian Broadband Seismic Experiment	
TERF	Tercis-les-Bains	
TERO	Teramo	
TERP	Poasito	
TERV	Terraza Guagua	
TES	Teshikaga	
TESR	Tescani	
TET	Tete	
TETM	Tetitlan	
TEVE	Tevekalti-Mersin	
TEY	Ternei	
TEYL	Yanliau Village	
TEZP	TEZPUR	
TF-	Taft	TF-CL
TF-CL	Taft	
TFIV	Fivizzano	
TFO	Tonto Forest Array	
TFO1	Folkestone	
TFRB	Telus,Franklin R.	
TFT	Tounfite	
TG-	Tongareva I.	TG-IS
TGBT	Tuxtla Gutierrez	
TGI	Taghi Ghambar	
TGIG		
TG-IS	Tongareva Island	
TGJI	Tegal	
TGL	Tana Glacier	
TGN	Turgen	
TGRV	El Tigre	
TGRZ	Tauranga	
TGT	Taghat	
TGUH	Tegucigalpa,Univ of Honduras	
TGV	Tuan Giao	
TGY	Tagaytay City	
THA	Thala	
THAK	Thakurichhap	
THAL	Thalero	
THAS	Thassos island	
THC	Tehachapi Microwave	
THE	Thessaloniki	
THEF	They Montfort	
THI	Terre Haute	
THIG		
THIS	South End of Cholame Valley, Shandon	
THK	Tsim Bei Tsui	
THKV	Tehran--Karaj	
THL	Klokotos Trikala	
THMB	Thunder Mountain BC	
THN	Thein Dam	
THO	Tonto Hills Observatory	
THO1	Thor	
THOB	Mount Thompson	
THP	Tara Hills	
THR	Tehra@18n	
THR1	Thera Island	
THR2	Thira island, Vourvoulos	
THR3	Thira Island, Nea Kammeni	
THR4	Thira Island, Oia	
THR5	Thira Island, Kera	
THR6	Thira Island, Akrotiri	
THR7	Fira-Santorini	
THR8	Santorini-Monolithos	
THR9	Santorini-Faros Akrotiriou	
THRC	Three Sisters	
THRI	Tanaharon	
THS	The Heights School	
THS1	Thassos, Thassos Island	
THT	Papeete	
THT1	Athinios (Pelekanos)	
THT2	Imerovigli	
THTN	Thala	
THTRI	Thathri	
THU	Thule	
THUI	La Thuile	
THULE	Thule	
THV	Thanh Hoa	
THV2	THIVAI	
THW	Thamme Wali	
THWA	Thˆ…ringer Wald Luisenthal	
THY	Trims Highway	
THZ	Tophouse	
TI2	Plekhanov	
TIA	Tai'an	
TIAR	Tiarei	
TIC	Toumodi	
TICN	Ticuantepe	
TID	Three Point Mountain	
TIE	Tianjin	
TIF	T'bilisi	
TIG	Tigre	
TIG2	Tigre 2	
TIGA	Tifton	
TIGG	Tignish, PEI	
TIGL	Tigil	
TIH	Tihany	
TIJ01	Guaruva-PR	
TIK	Tiksi	
TIL	Tilichiki	
TILK	Tilichiki	
TILR	Tilichiki	
TIM	Timisoara	
TIMB	Timberline	
TIMO	Timmins Ontario	
TIN	Tinemaha, Big Pine	
TINA	Tinaroo	
TING	Casa Alexandra Alvarado - Tingo	
TINT	Rio Tinto	
TI-NV	Tolicha Peak	
TIO	Tiouine	
TIOV	TMO PEDROTE	
TIP	Timpagrande	
TIPB	Shuangxi	
TIPT	Tiptonville	
TIR	Tirane	
TIR1	Institute of Geosciences in Tirana	
TIRA	La Tirana	
TIRR	Tirgusor	
TIS	Tissa	
TISA	Tisan-Mersin	
TISN	Laguna Tiscapa	
TIT	Squaw Tit	
TITE	Tito	
TIWZ	Tintock	
TIXI	Tiksi	
TIY	Taiyuan	
TIYB	Tien Yen	
TJC	Trinidad (USA)	
TJIG	Tijuana	
TJN	Taejon	
TJOU	Tjoern	
TJR	Tejon Ranch	
TK-	Tonasket	TK-WA
TK01	Tokai 1	
TK02	Tokai 2	
TK03	Tokai 3	
TK04	Tokai 4	
TKA	Tanaka	
TKB	Tkibuli	
TKC	Tsukechi	
TKCO	King County	
TKD	Takada	
TKDS	Koohdasht(Tabas)	
TKE	Take-yama	
TKEZ	Kiri Road	
TKGZ	Te Karaka	
TKI	Tkibuli	
TKJ	Takada	
TKJD	Tokuyama	
TKK	Topkok	
TKL	Tuckaleechee Caverns	
TKM	Takamatsu	
TKM2	Tokmak 2	
TKMK	Tokmak	
TKN	Takane	
TKO	Trask Mountain	
TKR	Tekirdag	
TKS	Tokushima	
TKSJ	Tokushima 2	
TKT	Tuktoyaktuk	
TKTP	Tekketepe	
TKU	Takayasuyama	OSK
TK-WA	Tonasket	
TKX	Tecate	
TKY	Takayama	
TKZ	Takazawasan	
TLA	Tapachula	
TLAR	Talaya	
TLB	Topalu	
TLBR	Topalu	
TLBS	Tolbacick	
TLC	Trig L	
TLCB	Telegraph Cove	
TLCR		
TLE	Tual	
TLEK	Tau Lekoa	
TLG	Talgar	
TLI	Talmassons	
TLIG	Tlapa	
TLIS	Tenkeli	
TLK	Talkeetna Mountains	
TLL	Tololo Astronomical Observatory	
TLLA	Tiendilla	
TLM	Tolmezzo	
TLN	Talang	
TLNG	Tallong	
TLO	Toledo HGLP	
TLOR	Lorca, Murcia	
TLP	Tuguegarao	
TLR	Teller	
TLS	Talasea	
TLT	Tellico Plains	
TLUC	Lucca	
TLV	Tu Ly	
TL-WY	Thermopolis	
TLX	Tulancingo	
TLY	Talaya	
TLZ	Tolley Road	
TM-	Tomahawk	TM-WS
TMA	Tamaro	
TMAB	Tomˆ'-Aˆ§u,PA,Brazil	
TMB	Temblor Range Southeast	
TMBK	Timbaki Heraklio	
TMBR	Timber Mountain	
TMC	Table Mountain	
TMCH	Temuco	
TMCR	Tamitsa	
TMD	Tamdy-Bulak	
TMDA	Turtle Mountain	
TMDB	BangkokBB_BH_low_level	
TME	Tecomasuche	
TMI	Taylor Mountain	
TMIA	Guayabo	
TMK	Temiskaming	
TML	Taimylyr	
TMM	Tecnologico de Monterrey	
TMM2	Tecnologico de Monterrey 2	
TMN	Timber Mountain	
TMO	Tin Mountain	
TMP	Tomahawk Gully	
TMR	Tomakomai	
TMS	Mera	
TMT	Talcott Mountain	
TMU	Temuco	
TMUT	Trail Mountain	
TMW	Tok Microwave	
TM-WS	Tomahawk	
TMWZ	Te Maipa	
TMX	Tampico	
TN-	29 Palms	TN-CL
TNA	Tin City	
TNAK	Tsuna	
TNB	Tanabu	
TNC	Tunceli	
TNCL	Tunceli-Merkez	
TN-CL	Twentynine Palms	
TNDR	Tynda	
TNE	Ternate	
TNF	Tounfite	
TNG	Tangerang	
TNGL	Gungliau Township	
TNGT	Tongatapu	
TNH	Tianshui	
TNJ	Tannan	
TNK	Tinkers Knob	
TNKJ	Nakagawa	
TNKS	Turikan	
TNL	Tonnelnyy	
TNN	Tanana	
TNO	Torino	
TNOU	National Taiwan Ocean University, Keelung City	
TNP	Tonopah	
TNR	Turnu Rosu	
TNRJ	Tenryu	
TNS	Taunus Mts	
TNSA	Tinos	
TNSD	Shindian Village	
TNSJ	Nastanj	
TNSS	Tian-Shan	
TNT	Toronto	
TNTG	T'onet'i	
TNTI	Ternate	
TNU	Tenhult	
TNV	Terranova Bay	
TNZ	Tarata	
TO-	Tishomingo	TO-OK
TO01	Tolfa - RM	
TO02	Allumiere - RM	
TO03	Canale Monterano - RM	
TO04	Tolfa - RM	
TO05	Santa Marinella - RM	
TO06	Tarquinia - VT	
TO07	Tarquinia - VT	
TO08	Barbarano Romano - VT	
TO09	Civitella Cesi - VT	
TOA	Tolsona	
TOA0	Torodi Ar. Site	
TOA1	Torodi Ar. Site	
TOA2	Torodi Ar. Site	
TOA3	Torodi Ar. Site	
TOAZ	Toaza	
TOB	Tobago	
TOB1	Torodi Ar. Site	
TOB2	Torodi Ar. Site	
TOB3	Torodi Ar. Site	
TOB4	Torodi Ar. Site	
TOB5	Torodi Ar. Site	

Code	Station Name	Other
TOBO	Tobermory, Bruce Peninsula National Park	
TOBT	Tobi-shima	
TOC	Tocklai	
TOC1	Torodi Ar. Site	
TOC2	Torodi Ar. Site	
TOC3	Torodi Ar. Site	
TOC4	Torodi Ar. Site	
TOC5	Torodi Ar. Site	
TOC6	Torodi Ar. Site	
TOC7	Torodi Ar. Site	
TOCH	Tocopilla	
TOD	Tromm	
TOF	Tornio	
TOFB	Tofino	
TOG	Togane	
TOI	Tomamai	
TOK	Tokyo	
TOK1	Tok Station 1	
TOK2	Tok Station 2	
TOK3	Tok Station 3	
TOK4	Tok Station 4	
TOKA	Tokat	
TOKL	Toktogul	
TOKT	Tokat	
TOL	Toledo	
TOLC	Tolima	
TOLF	Tolfa	
TOLI	Toli-Toli	
TOLI2	Tolitoli	
TOLK	Toolik Lake Research Station	
TOLO	Toledo BPA CREST BB SMO	
TOM	Tomie	
TOMM	Thomson	
TON	Tongariro	
TONGO	Tortengo (Faido)	
TONS	Talon	
TOO	Toolangi	
TO-OK	Tishomingo	
TOP	Topolovo	
TOPG	Topolog	
TOPM	Tallapoosa	
TOPO	Topo	
TOPPO	Toppo, Italy	
TOR	Tori shima	
TORD	Torodi Ar. Beam	
TORE	Minerbio--Torre	
TORI	Toribari	
TORNY	Torny/Romont	
TORO	Toronto--Leslie Street Spit	
TORR	Tordecillas	
TORS	Torosgyugh	
TORT	La Tortuga	
TORV	Torococo	
TOS	Tosya	
TOSP	Speyside	
TOT	Tottori	
TOT1	Toteng	
TOTH	TOTAH	
TOTJ	Tottori	
TOU	Touzarine	
TOUF	Mont Tournerait	
TOV	El Tocuyo	
TOVM	TOLUCA	
TOW	Tower One	
TOY	Toyama	
TOZ	Tahuroa Road	
TP-	Tippipah	
TP2	Tecpan 2	
TPA	Tala Pozo	
TPAW	Teton Pass	
TPB	Topolobampo	
TPC	Twentynine Palms	
TPE	Tepelena	
TPFO	Pinon Flats	
TPG	Tlapa	
TPGR	Topolog	
TPH	Tonopah	
TPI	Tanjungpandan	
TPIG	Tehuac#an	
TPJ	Tangkuban Prahu	
TPK	Tolicha Peak	
TPL	Tocopilla	
TPM	Tepoztlan	
TPMO	Tallapoosa	
TPMT	Tepee Creek	
TPN	Tapini	
TPND	Tumut Pond Dam	
TPNV	Topopah Spring	
TP-NV	Tippipah	
TPO	Tropico Hills	
TPOR	Trinity Point	
TPP	Pointe-a-Pierre	
TPR	Prospect	
TPRI	Tanjung Pinang	
TPRS	Tripped Ranch	
TPRT	Prato	
TPRV	Parvadeh(Tabas)	
TPSO	The Peters Seismological Observatory	
TPT	Tiputa	
TPTC	Pt. Cumana	
TPTI		
TPU	Tempiute Mountain	
TPUB	Ta-pu	
TPV	Tonopah	
TPVN	Tapovan	
TPX	Tapachula	
TPZ	Tupiza	
TQ-MS	Tatum Dome	
TQP	Tayabas	TAY
TQTN	Tranquillity	
TQV	Tuyen-Quang	
TR1	Tor 1	
TR2	Tor 2	
TRA	Travnik	
TRAM	Private Property, Shandon	
TRAP	Trapper Creek	
TRAV	Traversella	
TRAZ	Trapeza	
TRB	Tarbela	
TRBA	At Turbah	
TRBF	Trabuc cave	
TRC	Taylor Ranch	
TRCB	Terra Rica	
TRCK	Troitsky	
TRCR	Troy Canyon	
TRCW	Trojmez^›	
TRD	Trivandrum	
TRE	Trente	
TRE1	Treia	
TREB	Trebinje	
TREC	Trest	
TREE	Tree Lodge	
TREF	Trevaresse	
TREG	Tregnago	
TREM	Isole Tremiti	
TREV	Trevi	
TRF	Thorofare Mountain	
TRG	Tyrgan	
TRGS	Targassone	
TRH	Trail	
TRHT	Turhal	
TRI	Trieste	
TRIB	Obertriebel	
TRIF	Trifonti	
TRIGF	Trigance	
TRIP	Tripoli	
TRIS	Tristan da Cunha	
TRISU	ISU Teleorman	
TRIV	Trivento	
TRIZ	Trizonia	
TRJ	Tarija	
TRK	Turkey Creek	
TRKR	Terskaya	
TRKS	Terek-Say	
TRKT	Turkoglu	
TRLG	Trialeti	
TRM	Turner	
TRMF	Trois Ilets	
TRML	Termal-Yalova	
TRN	Trinidad (W)	
TRNY	Table Rock, Ramapo, NY	
TRO	Tromso	
TROLL	Troll, Antartica	
TRON	Trondheim	
TROT	Trozza	
TRP	Trujillo	
TRP1	Tripolis, Arkadia	
TRPA	Tarpa	
TRQ	Mont Tremblant	
TRQA	Tornquist	
TRR	Tarraleah	
TRRB	Tres Rios	
TRS	Trieste (CM)	
TRSB	Teresina	
TRSC	Trident Resrch Ctr	
TRSI	Tarutung	
TRSU	Trosnyk	
TRT	Tretes	
TRT1	Tortuguero	
TRTB	Turuntaevo	
TRTC	Tortuguero	
TRTE	Tartu	
TRTR	Tortoreto Alta	
TRTS	Turuntaevo, Baikal	
TRTT	Trang	
TRU	Truk	
TRULL	Truellikon	
TRUS	Trudelj	
TRV	Treviso	
TRVA	Ter de Rio Valdez	
TRVM	Trivandrum	TRD
TRVZ	Turoa	
TRW	Toppenish Ridge	
TRWA	Trelew	
TR-WA	Toppenish Ridge	
TRWZ	Traveller	
TRXW	Triangle-X Ranch	
TRY	Troy	
TRYN	Tryon Peak	
TRZ	Taradale	
TS-	Trotters	TS-ND
TS1	Aisen	
TS2	Aisen	
TS3	Aisen	
TS4	Aisen	
TS5	Aisen	
TS6	Aisen	
TSA	Tranquitos	
TSA1	Sevenoaks	
TSAL	Tannehill State Park	
TSB	Tasu	
TSC	Tosontsengel	
TSCK	Chigu Township	
TSCN	Private Property, Shandon	
TSCT	Constanta Port	
TSD1	Tsodilo	
TSE	Tsebel'da	
TSEB	Hengchuen, Pingtung county	
TSGT	San Giustino Valdarno	
TSI	Tuntungan	
TSIM	Tsina	
TSJB	Timber West San Juan	
TSK	Tsukuba	
TSL	Tsaile	
TSLK	Tsoukalades, Lefkada island	
TSM	Tawau	
TSMN	Mangalia Port-Far Verde	
TSN	Qingdao	
TS-ND	Trotters	
TSO	Tulsa	
TSOZ	Tsokhamarg	
TSP	Tesuque Peak	
TSPT	Pingtung City	
TSR	Tsuruga	
TSRJ	Tsuruga	
TSS	Tsurugi yama	
TSSL	Sulina	
TST	Taslik	
TSTN	Townsend	
TSU	Tsu	
TSU1	Tsu	
TSUB	Tasu	
TSUJ	Tsu 2	
TSUM	Tsumeb	
TSUT	Saturnia	
TSV	Twin Springs	
TSVK	Tesvikiye-Yalova	
TSY	Tnine Yamani	
TSZ	Takapari Road	
TT-	Trout Lake	TT-MI
TT01	Tatalina	
TTA	Tatalina	
TTC	Datong	
TTE	Trieste	
TTER	Terranuova Bracciolini	
TTG	Podgorica	
TTH	Taradale Trig	
TTI	Taranto	
TTIG	Tnine Tigouga, Taroudante	
TTK	Tokmak	
TTL	Tatalina	
TTM	Turtle Mountains	
TT-MI	Trout Lake	
TTN	Taitung	
TTO1	TONANKAI O.B.S1	
TTO2	TONANKAI O.B.S2	
TTO3	TONANKAI O.B.S3	
TTO4	TONANKAI O.B.S4	
TTO5	TONANKAI O.B.S5	
TTOK	Tanto	
TTP	Tetilla Peak	
TTR	Matura	
TTS	Tsetserleg	
TTSI	Tana Toraja	
TTT	Tottori	
TTU	Tartu	
TTV	Teren Tiev Lake	
TTVN	Tram Tau	
TTW	Tolt Reservoir	
TTX	Tres Cuevas	
TTY	Takhtoyamsk	
TTZ	Chichi shima	
TU-	Tunkhannock	TU-PA
TU1	Tuscania	
TUA	Tuai	
TUB	Tubingen	
TUBL	Tuebingen-Lennartz	
TUC	Tucson	
TUC3	UHE Tucurui	
TUC4	UHE Tucurui	
TUCB	Tucurui	
TUDR		
TUE	Stuetta	
TUG	Tungurcha	
TUH	Tulbagh	
TUI	Tuis	
TUIG	Tuzandepetl	
TUK	Tuktoyaktuk	
TUL	Tulsa	
TUL0	Crosstimbers Borehole	
TUL1	Leonard	
TULEG	Thule	
TULM	Tulc¨¡n-Chalpatan Las Cuevas	
TUM	Tumwater	
TUMC	Tumaco	
TUMD	Tumrok D	
TUML	Tumlingtar	
TUMR	Tumrok	
TUN	Tunis	
TUND	Tunduma	
TUNG	Tungurahua	
TUNR	Tungur	
TUNS	Gyulagarak	
TUO	Tucson Observatory	
TUP	Tupik	
TUPA	Temple University, Ambler	
TU-PA	Tunkhannock	
TUQ	Turquoise Mountain, Baker	
TUR	Turbat	
TURA	TURA	
TURB	Turbat	
TURF	col de Turini - Moulinet	
TURI	Tura	
TURN	Turunc	
TURS	Tal-Yuryakh	
TURV	Turiamo	
TUS	Tuscarora	
TUT	Tucson--Telemeter	
TUTA	Tutak	
TUTZ	Tuhingamata	
TUU	Turnu Rosu	
TUV	Trujillo	
TUVZ	Tukino	
TUWA	Tungkwan	
TUWZ	Tuamarina	
TUY	Tsuyama	
TUZ	Tuapeka	
TUZL	Tuzla-Istanbul	
TV1H	Townsville Hard Rock	
TV2S	Townsville Soft Rock	
TV6	Monte Luro di Tavullia	
TVAN	Van	
TVBK	TV Kerman	
TVG	Trois Rivieres	FBG
TVGG	Rocky Mountain Net	
TVH1	TV Hill, Hawthorne	
TVH2	Borealis Mine area, Hawthorne	
TVH3	East Aurora area, Hawthorne	
TVI	Taveuni	
TVL	Townsville	
TVNC	Taylorsville	
TVO	Taravao	
TVSB	Tavsanli	
TVZX	PASSCAL Warehouse	
TW1H	Toowoomba 1 Hard	
TWA	Mucha	
TWAR	Twist	
TWB	Tillmans-Whites Bay	
TWB1	Santiao Chiao	
TWBB	Timber West Blakeney	
TWC	Suao	
TWCP	Suao Port	
TWD	Chiawan	
TWDS	Dungshr Township	
TWE	Neicheng	
TWE*	Feng-lin	
TWF	Yuli	
TWF1	Yuli	
TWG	Pinlang	
TWGB	Timber West Granite	
TWGBT	Beinan	
TWGZ	Tauwhareparae	
TWH	Lutao	
TWI	Lanshu	
TWJ1	Tawu	
TWK	Hsinying	
TWK1	Hengchun	
TWKB	Timber West Koksilah	
TWKBT	Hengchun	
TWL	Twin Lakes	
TWM	Shoushan	
TWM1	Shoushan	
TWMO	Westmoorings	
TWN	Twin Peaks	
TWO	Meishan	
TWO1	Meishan	
TWOA	Tennyson Woods	
TWP	Hsiaoliuchiu	
TWQ	Tungshih	
TWQ1	Liyutan	
TWR	Chutung	
TWS1	Kuangyinshan	
TWSI	Taliwang, Sumbawa	
TWT	Tachien	
TWU	Wulai	
TWVZ	Taurewa	
TWW	Teanaway	
TWX	Kuosheng	
TWY	Chenhua	
TWZ	Neifu	
TX00	Lajitas Ar. Site	
TX02	Lajitas Array Site 2	
TX03	Lajitas Array Site 3	
TX04	Lajitas Array Site 4	
TX05	Lajitas Array Site 5	
TX06	Lajitas Array Site 6	
TX07	Lajitas Array Site 7	
TX08	Lajitas Array Site 8	
TX09	Lajitas Array Site 9	
TX10	Lajitas Array Site 10	
TX11	Lajitas Array Site 11	
TX31	Lajitas Ar. Site	
TX32	Lajitas Array Site 32	
TXAR	Lajitas Array Beam Reference Point	
TXB	Texada	
TXNY	Tuxedo	
TXO	Tlaxiaco	
TY-	Tracy	TY-MN
TYC	Yuchr	
TYF	T'ung-yeun Feng	
TYH	Toyohashi	
TYI	Trinity Mountain	
TYK	Toyo'oka	
TYM	Tateyama	
TY-MN	Tracy	
TYN	Taiyuan	
TYNN	Toyone	
TYNO	Tyneside	
TYS	Tyson Valley	
TYV	Tymovskoe	
TZC	Tazercounte	
TZK	Tazeka	
TZL	Tazlina	
TZR	Tezpur	
TZTN	Tazewell	
TZZ	Tabubil	
U04C	Hernandez Reservoir, Idria	
U05C	Westside ANR, Five Points	
U10A	Ash Meadows, Armagosa	
U11A	Corn Creek	
U12A	Valley of Fire, Overton	
U13A	Pakoon Wash	
U14A	Mt Trumbull	
U14B	Concepcio@15n	
U15A	North Rim	
U16A	Tuba City	
U17A	Shonto	
U18A	Rough Rock, Chinle	
U19A	Dine' College, Tsaile	
U20A	Newcomb	
U21A	Nageezi	
U22A	Llaves	
U23A	El Rito	
U24A	Moreno Valley High School, Angel Fire	
U25A	Circle Dot Ranch, Maxwell	
U26A	Atchley Ranch, Grenville	
U27A	Thompson Grove	
U28A	Mallet	
U29A	Oasis Ranch, Spearman	
U30A	WK&E Inc. Balko	
U31A	Nine Bar Ranch, Gage	
U32A	Winter Ranch, Mooreland	
U33A	Lingo Farm, Meno	
U34A	Anderson Ranch, Garber	
U35A	Pawnee	
U36A	Oologah	
U37A	Salina	
U38A	Gravette	
U39A	Green Forest	
U40A	Yellville	
U41A	Viola	
U42A	Revenden	
U43A	Rector	
U44A	Portageville	
U44B	Burton Farm, Hornbeak	
U45A	Rockin P Farm, Martin	
U46A	Springville	
U47A	Clarksville	
U48A	Cassie Pea, Portland	
U49A	Red Boiling Springs	
U50A	Jamestown	
U51A	La Follette	
U52A	Thorn Hill	
U53A	Fall Branch	
U54A	Nelsons Funny Farm, Mountain City	
U55A	TA2, Sparta	
U56A	King	
U57A	Blanch	
U58A	Oxford	
U59A	Littleton	
U60A	Pendleton	
U61A	Possum Corner Farms, Belvidere	
U65B	Hualane	
U69B	Peumo	
U73B	San Pedro	
UABX	UABC, Campus Mexicali	
UALR	University of Arkansas, Little Rock	
UAV	Universidad de los Andes	
UB0M		

Code	*Station Name*	*Other*
UB1M		
UB2M		
UB3M		
UB4M		
UB5M		
UB6M		
UB7M		
UB8M		
UB9M		
UBBA	Unterbreizbach	
UBO	Uinta Basin Array	
UBOT	Bothatogo	
UBPT	Khong Chiam	
UBR	Ueberruh	
UBRB	Upper Baezaeko River	
UBSI	University, Bengkulu	
UBT	Ubonrachathani	
UCC	Uccle	
UCCT	U. Connecticut	
UCH	Uchtor	
UCHI	Chinameca	
UCM	Universidad Complutense Madrid	
UCT	University of Connecticut	
UDBI	Udbina	
UDBS	Soyapango	
UDD	Uddeholm	
UDI	Udine OGS	
UDN	Udine	UDI
UDP	Udhampur	
UDU	Undu Point	
UDYN	Al 'Udayn	
UEES	San Salvador	
UER	Ust'-Elegest	
UESS	San Salvador	
UESV	Ojushtada	
UFA	Ufa	
UFCT	Forcatura	
UFLG	Foligno	
UFRS	Porto Alegre	
UGDM		
UGI	Ugak Island	
UGK	Ugakei	
UGL	Uglegorsk	
UGLR	Uglovaya	
UGM	Wanagama	
UGO	Universidad de Guanajuato	
UGON	Onchagaon	
UGRT	Union Grove	
UJAP	Al Uja	
UJI	Uji	
UJN	ULJIN	
UJZ	Chiapas	
UK-	Ukiah	UK-OR
UKAQ	Ukalunda	
UKHR	Ukrul	
UKI	Ukiah	
UKL	Ugashik Lake	
UKOP	Uzunkopru-Edirne	
UK-OR	Ukiah	
UKR	Ust'-Kan	
UKT	Uakit	
UKTR	Uchkent	
UL1	ULLUNGDO	
UL1S	Tyubelyakh	
UL2S	Kamenistyi	
ULA	Ulamona	
ULBA	Ulba	
ULC	Ulcinj	
ULDT	Uludag	
ULG	Ulaangom	
ULGR	Ulagan, Altay Republic, Russia	
ULHL	Ulahol	
ULLB	Ulleungdo bore hole	
ULM	Lac du Bonnet	
ULN	Ulaanbaatar	
ULO	Ulamona	
UMAU	Umeaa	
UMB	Umberatana	
UME	Umea	
UMI	India	
UMJ	Umaji	
UMJE	Umejima	
UMJS	Umm Lajj	
UMKT	Umerkot	
UMM	Uummannaq	
UMPA	Umpang Tak	
UMPQ	Umpqua Community College DOGAMI SMO	
UMQ	Umm Al-Quwin	
UMR	Umm Al-Rimmam	
UMS	Upper Santa Misericordia	
UMT	Umtata	
UNA	Unalaska	
UNAH	Universidad Nacional Autonoma de Honduras	
UNAP	University of Iquique	
UNB	University of New Brunswick	
UNCR	Uncukul	
UNH	University of New Hampshire, Durham, NH	
UNIC	Santa Ana	
UNJ	University of Jordan, Amman	
UNJO	University of Johannesburg	
UNL	Unalakleet	
UNM	Universidad Nacional Autonoma de Mexico	
UNR	Ust'-Nera	
UNR1	Ust'Nera (new)	
UNRC	Norcia	
UNTM		
UNV	Unalaska Valley	
UNZ	Unzen dake	
UOA	University of Arizona	
UOCO	University of Cincinnati	
UOLM	Olmeto	
UON	La Union	
UOSS	Minazif	
UPA	Univ. de Panama@15	
UPAO	U. Pittsburgh - Allegheny Obs.	
UPC	Upice	
UPD1	Univ de Panama	
UPD2	Meteti	
UPI	Upington	
UPIG		
UPM	Unac-Piva	
UPNG	Upernavik	
UPP	Uppsala	
UPR	University Campus, Patras University	
UPRP	Perugia	
UPS	University of Puget Sound	
UQSK	'Uqlat as Suqur	
URA	Urakawa	
URA3	Urakawa 3	
URAJ	Urakawa 2	
URAV	Uravi	
URB	Uribe, Santander	
URCR		
URCU	Urcuqui	
URDF	Urd¯os	
UREC	San Jos¯ de Ur¯, Cordoba	
URFA	Urfa	
URG	Urgal	
URH	Urahoro	
URIC	Uribia, Colombia	
URKR	Urkarakh	
URLA	Izmir	
URS	Ugurusu	
URSC	Urasca	
URT	Ura-Tyube	
URUA	Uruapan	
URV	Uravakonda	
URVA	University of Richmond	
URVD	Rivodutri	
URZ	Urewera	
USA0	Ussuriysk Array Site A0	
USA0B	Ussuriysk Array Site A0B	
USA1	Ussuriysk Array Site A1	
USA2	Ussuriysk Array Site A2	
USA3	Ussuriysk Array Site A3	
USAK	U¯ak-Merkez	
USB1	Ussuriysk Array Site B1	
USB2	Ussuriysk Array Site B2	
USB3	Ussuriysk Array Site B3	
USB4	Ussuriysk Array Site B4	
USB5	Ussuriysk Array Site B5	
USC	University of Southern California	
USGN	Sangemini	
USHA	Ushuaia	
USHU	Ushuaia	
USI	Ustica	
USIL	Lacq-Usine	
USIN	University of Southern Indiana	
USK	Ussuryisk	
USL	Ugashik Lake	
USMR	Ust'-Maya	
USO	Ust'-Omchug	
USP	Ospenovka	
USRK	Ussuriysk Ar. Beam Pt.	
USTO	Oran	
USZ	Ust'-Nyukzha	
UTEC	San Salvador	
UTF	Valparaiso	
UTHA	Uthaitani	
UTL	Utla	
UTLO	University of Toledo	
UTM	University of Tennessee at Martin	
UTMA	University of Tennessee at Martin	
UTMO	Huajuapan	
UTMT	University of Tennessee at Martin	
UTNM	Universidad Technlogica Nacional Mendoza	
UTO	University of Toledo	
UTS	Utsunomiya	
UTSR	Utesnoe	
UTSU	Utsunomiya	
UTT	Tea Tree Gully	
UTTA	Uttaradit	
UTU	Utuhina	
UUDB	Ulan-Yde	
UURS	Ust' Urkima	
UVAG	Avigliano	
UVI	Uvira	
UVN	Unionville	
UVN1	Unionville	
UVO	Usu Kazan Kan	
UVZA	Uvinza	
UWA	Uwa jima	
UWA2	Uwa jima 2	
UWB	Uwe@18kahuna Bluff	
UWE	Uwekahuna	
UWFH	University of Washington Friday Harbor	
UWJI	Ujung Watu	
UWL	Utowana Lake	
UWM	University of Wisconsin at Milwaukee	
UWOO	University of Western Ontario	
UYO	Union Valley	
UYUN	Uyuni	
UZB	Uzynbulak	
UZD	Uzd	
UZH	Uzhgorod	
UZP	Denizli	
UZT	Uzuto	
UZU	Uzumlu	
V03C	Hunter Liggett MR Jolon	
V04C	Ramage Ranch, Paso Robles	
V05C	Boulder Hill, Kettleman City	
V11A	Goodsprings	
V12A	Nelson	
V13A	Grand Canyon West Ranch, Meadview	
V14A	Boquillas Ranch, Navajo N., Peach Springs	
V15A	Kaibab National Forest USFS, William	
V17A	Tonalea, Kykotsmovi	
V18A	Ganado	
V19A	Window Rock	
V20A	Brimhall	
V21A	Milan	
V22A	San Miguel Ranch, Cuba	
V23A	Ortiz Mt. (NFS), Santa Fe National Forest	
V24A	Rampart Ranch, Las Vegas	
V25A	Rancho No Tengo, Wagon Mound	
V26A	Tequesquite Ranch, Mosquero	
V27A	Dan Oppiter Farms, Dalhart	
V28A	Channing	
V29A	Stinnett	
V30A	Spur Ranch, Miami	
V31A	Spring Creek Lake, Blk. Kettle Nat Grslnd	
V32A	Arapaho	
V33A	Lossen Ranch, Watonga	
V34A	Guthrie	
V35A	Meyer Ranch, Chandler	
V36A	Jenks	
V37A	Hulbert	
V38A	Canehill	
V39A	Pettigrew	
V40A	Witts Springs	
V41A	Mountainview	
V42A	Cord	
V43A	Jonesboro	
V44A	Blytheville	
V45A	Humboldt	
V46A	Holladay	
V47A	Nunnelly	
V48A	Smith Brothers Farm, Spring Hill	
V49A	McMinnville	
V50A	Pikevile	
V51A	Loudon	
V52A	Sevierville	
V53A	Saluda	
V54A	Nebo	
V55A	Taylorsville	
V56A	Mocksville	
V57A	Coltrane Farms	
V58A	Windy Hill, Pittsboro	
V59A	Middlesex	
V60A	Jim Taylor Road, Stokes	
V61A	Roper	
V62A	Hyde County Airport	
VA01	Torpederas	
VA02	Isla de Pascua	
VA03	San Esteban	
VA04	Juan Fern¯¡ndez	
VA05	Santo Domingo	
VAA	Cerro Valdivia	RTCV
VABQ	Val Des Bois	
VAC	Vackov	
VACH	Vallenar	
VACK	Vackovec	
VACR	Volcan Arenal	
VAD	Vardenisi	
VADZ	Vardenis	
VAE	Valguarnera	
VAF	Ylistaro	
VAG	Aggia Anna	
VAGA	Valle Agricola	
VAH	Vaihoa	
VAI	Varese	
VAJ	Vajont	
VAK	Adit at Lawrence Berkeley Lab, Berkeley, CA	
VAL	Valentia	
VALF	Valcebollere	
VALM	Valbona	
VALQ	Val d'Or	
VALR	Valaam	
VALT	Mount Saint Helens Crater	
VAM	Vamos	
VAN	Vannovskaya	
VAN2	Vandellos 2	
VANB	Van	
VANNI	Vissoie, Val d'Anniviers	
VANT	Van	
VANU	Vaenersborg	
VANZ	Vanadzor	
VAO	Valinhos	
VAO2	Atibaia	
VAO3	Socorro	
VAR	Varanasi	
VARA	Varagna	
VARB	Varian Well	
VARE	Varese	
VARL	Varlezi	
VARN	Col Varnada, Mel (BL)	
VARP	Vesuvio Array Permanente	
VARR		
VARZ	Arzignano	
VAS	Vassijaure	
VAS01	Vassouras-RJ	
VAS2	Vassiliki, Lefkas Island	
VASR	Vaslui	
VASS	Vassouras	
VAVA	Vava'u	
VAY	Valandovo	
VBA	Sierra Ventana	
VBEM	Beaver Butte	
VBG	Venebrugge	
VBG1	Venebrugge (Bruchterveld)	
VBG2	Venebrugge (Bruchterveld)	
VBG3	Venebrugge (Bruchterveld)	
VBG4	Venebrugge (Bruchterveld)	
VBKN	Vesuvio Bunker Nord	
VBL1	Vara Blanca	
VBMS	Vicksburg	
VBN	Bulusan	
VBPM	Bald Peter	
VBU	Buco	
VBV	Virginia Beach	
VBY	Vinica-Bojanci	
VC1	Cotopaxi 1	
VCA	Vinchina	
VCAB	Vineyard Canyon	
VCB	Cabagna-an	
VCEL	Villa Celiera	
VCH1	Volc¯¡n Chico	
VCHI	Volcan Chico	
VCHM	Qimei	
VCLM	Crater Lake	
VCM	Veracruz	
VCMM	Chase Mountain	
VCMT	Victor	
VCN	Canlaon	
VCNR	Virginia City	
VCP	Volcan Cerro Prieto	
VCR	Vista de Mar	
VCRE	Vesuvio Cratere Est	
VCS	Vernal Corners	
VCT	Victoria	
VCVM	Valle de Chalco	
VDA	Vodivohitra	
VDB	Vedder Mountain	
VDBQ	Val-des-Bois,QC	
VDCF	Villefranche	
VDF	Valdeflores	
VDL	Val di Lei	
VDM	Villiers-Adam	
VDOS	Pratas Island	
VDP	Vodopadnii	
VDP3	Vietri Di Potenza	
VDQ	Val d'Or	
VDS3	Muro Lucano (Varco Staccarino)	
VDW	Vunidawa	
VEA	Veano	
VEB	Veberod	
VEH	Verkhnyaya Baza	
VEK	Verkhne-Kamchatsk	
VELZ	Velez Rubio	
VEN	Venice	
VENE	Venecia	
VENL	Venezia Lido	
VENT	Ventotene	
VER	Veracruz	
VERF	Verneugheol	
VERG	Veris	
VES	Vestal, Richgrove	
VETAM	Veliko Turnovo	
VEW	Oceanview	
VEX	Veracruz	
VEZ	Vezirkopru	
VFBM	Frederick Butte	
VFI	Filaki	
VFP	Flag Point	
VG1	Voghera	
VG2	Vista Grande	
VGB	Gordon Butte	
VGBI	Virgin Gorda, British Virgin Islands	
VGBM	Gordon Butte	VGB
VGG3	Viggiano (Prot.Civ.Gr.Lucano)	
VGL	Glafira	
VGM	Villa Grajales	
VGMM	Grass Mountain	
VGP	Chiapas	
VGPM	Green Peter	
VGTM	Goat Mountain	
VGVI	Virgin Gorda	
VGZ	Gonzales	
VHBM	Hamelton Butte	
VHEM	Hood Meadows East	
VHH	Hibok Hibok	
VHHM	High Heaven	
VHM	Vista Hermosa	
VHO	Vista Hermosa	
VHOM	Mount Hebo	
VHTN	Van Hill	
VHYM	Horsefly Mountain	
VIB	Van Inlet	
VIC	Victoria	
VICH	Los Vilos	
VICT	Victoria	
VIE	Vienna	
VIEF	Viey	
VIEL	Selb-Vielitz	
VIF	Vila Franca	
VIFL	Administraci¯‡n Zonal Eloy Alfaro - Quito	
VIGE	Viggiano	
VIGV	El Vigia	
VIH	Vielha	
VIK	Vik	
VIKU	Vikbolandet	
VIL	Villa Mercy	
VIL1	Vilia, Western Attica	
VIL2	Platees	
VILA	Vilada	
VILB	Vilhena	
VILC	Villavicencio, Colombia	
VILF	Villemus	
VILL	Villia	
VIM	Vimmerby	
VIMO	Victor Mine	
VIN	Vineyard	
VINC	Vinca	
VINO	Villanova	
VIP	Virginia Peak	
VIPM	Ingram Point	
VIR	Virginia	
VIRV	Villa del Rosario	
VIS	Vishakhapatnam	
VISG	Visignano	
VISK	Vishakhapatnam	VIS
VISS	Vis@19nje	
VIT	Vineyard--Telemeter	
VITF	Vittel	
VITU	Vitulano (BN)	
VITZ	Vitzeroda	
VIV	Vinh	
VIVA	Pratoni del Vivaro - Roma	
VIVB	Vinh	
VIVF	Saint-Julien-le-Roux	
VIZ	Vizianagram	
VIZE	K¯–rklareli/Vize-Akp¯–nar	
VJD	Vijayawada	
VJF	Virojoki	
VJP	Vajepar	
VJYM	Jersey	
VKA	Vienna	
VKB	Valkenburg	
VL6*	Forgia Vecchia	
VLA	Vladivostok	
VLAD	Vladila	
VLC	Villacollemandina	
VLCH	Valdivia	
VLD	Valdez	
VLDQ	Val d'Or	

Code	Station Name	Other
VLG	Velasquez	
VLH	Lignon Hill	
VLI	Veliai	
VLK	Valmikinagar	
VLKR	Vladikavkaz	
VLL	Laurance Lake	
VLMM	Larch Mountain	
VLMS	Volimes, Zakynthos	
VLN	Vanua Lava	
VLO	Vlora	
VLP	Valparaiso	IHA
VLR	Valea Ierii	
VLS	Valsamata	
VLU	Vernal	
VLV	Valdivia	
VLW	Vlagtwedde	
VLW1	Vlagtwedde	
VLW2	Vlagtwedde	
VLW3	Vlagtwedde	
VLW4	Vlagtwedde	
VLX	Vlachokerasia	
VLY	Voula,Athens	
VLZ	Valdez	
VMA	Markates	
VMC	Ville Marie	
VMG	Vicchio	
VMHM	Mount Hagen	
VMNM	Maupin	
VMO	Villa Marinero	
VMR	Mayon Resthouse	
VMS	Misericordia	
VMT	TAPS Tl Valdez	
VMUR	Van-Muradiye	
VN-	Vernal	VN-UT
VN6*	Vulcanello	
VNA	Neumayer	
VNA1	Neumayer--Station	
VNA2	Neumayer--Watzmann	
VNA3	Neumayer Olymp	
VND	Vanda	
VNDA	Vanda	
VNDS	Vrh nad Dolskim	
VNE	Neochorion	
VNFG	Veniaminof 2	
VNG	Vunargo	
VNHG	Veniaminof 1	
VNKR	Veniaminof 5	
VNL	Vernal	
VNM	Villa de Garcia	
VNNF	Veniaminof 3	
VNNZ	Vanand	
VNSG	Veniaminof 6	
VNSS	Veniaminof 8	
VNSW	Veniaminof 7	
VNT	Van	
VN-UT	Vernal	
VNV	Volcan Villarrica	
VNWF	Veniaminof 8	
VNY	Varmlds Nysat	
VO-	Vinton	VO-IO
VOBA	Vobarno	
VOG	Valley Oaks Golf Course, Visalia	
VOGL	Vogel Lake	
VOI	Vohitsoka	
VO-IO	Vinton	
VOIR		
VOJS	Vojsko	
VOL	Volimes	
VOL2	Volos	
VOL3	Nea Ionia, Volos	
VOLV	El Volcan	
VOR	Voronezh	
VORD	Divnogorie	
VORR	Voronezh	
VOS	Vostochnaya	VOSK
VOS4	Vostochnaya array site	
VOS5	Vostochnaya array site	
VOS6	Vostochnaya array site	
VOS7	Vostochnaya array site	
VOS8	Vostochnaya array site	
VOS9	Vostochnaya array site	
VOSK	Vostochnaya	
VOU	Vouglans	
VOY	Vojsko	
VOZR	Vozrozhdenie	
VPA	Pavliani	
VPD	Villa Park Dam	
VPDC	Valencia Peak Digital	
VPEM	Volcano Peak East	
VPIM	Pine Mountain	
VPK	Verdi Peak	
VPL	Vulcano Piano	
VPMM	Saint Patrick Mountain	
VPP	Pira-Piraso	
VPS	Volcan Poas	
VPS2	Volcan Poas 2	
VQS	Vieques	
VRAC	Vranov	
VRBM	Round Butte Dam	
VRC	Rainbow Creek	
VRD	Vardenis	
VRDI	Verde Repeater	
VRF	Varrio	
VRH	Novokhopyorsk	
VRHR	Novokhopersk	
VRI	Vrincioaia	
VRN	Varnville	
VRNZ	Vardanashen	
VRO1	Vrontados, Chios Island	
VRS	Kato Vasiliki	
VRSR	Storozhevoye	
VRT	Varto	
VRTB	Varto-Mus	
VRZ	Vera Road	
VRZA	San Zeno Di Montagna	
VRZG	Vardzia	
VRZT	Veris	
VSBM	Spring Butte	
VSC	Varnville	
VSCM	Scott Mountain	
VSG	Visale	
VSI	Simia	
VSK	Skopelos	
VSK1	VASILIKIADES	
VSK2	Vassilikiades, Cephalinia Isl.	
VSL	Villasalto	
VSM	San Miguel	
VSMM	Salem	
VSP	Spence Mountain	
VSR	Storozhevoye	
VSS	Volcan San Salvador	
VST	Saint Thomas	
VSTC	Green Oak Ranch, Vista	
VSTU	Vaestervik	
VSU	Vasula	
VT-	Venator	VT-OR
VT1	Waterbury	
VT2	Vantage 2	
VTB1	Vitulano	
VTCM	Trout Creek Butte	
VTDM	The Dalles	
VTF1	CHI Itaipu Binacional	
VTG	Vantage	
VTH	Erithrai	
VTHM	Trough	
VTIR	Vesuvio Tirone	
VTM	Vitim	
VTMR	Vitim	
VTN	Vitineika	
VT-OR	Venator	
VTR0	Volcan Turrialba	
VTS	Vitosha	
VTU	Volcan Turrialba	
VTUC	Volcan Turrialba	
VTV	Victorville	
VTVB	Vinh Tuy	
VTVM	Tizayuca	
VTY	Vatovaky	
VUL	Vulcan	
VULT	Monte Vulture - Melfi	
VUN	Vunikawai	
VVD	Valverde	
VVDG	Vesuvio Valle Del Gigante	
VVHS	Vashon High School SMO	
VVI	Villa di Villa	
VVK	Vomvokou	
VVLD	Villa Vallelonga	
VVMR	Verona	
VVO	Vivian	
VVOS	Brankovina	
VWBM	Wanoga Butte	
VWCC	Virginia Western Community College	
VWDT	VWDT	
VWMM	Walker Mountain	
VWUC	VWUC	
VWV	Potts Mountain	
VWZMW	Thunduwike	
VXJU	Vaexsjoe	
VYB	Vyborg	
VYHS	Vyhne	
VZS	Valdez South	
VZW	Valdez West	
W02B	Bay Bridge West Pier 2	
W05B	Bay Bridge West Pier 5	
W12A	Cal Nev Ari	
W13A	Hualapai Mountain Park, Kingman	
W14A	Seligman	
W15A	Williams	
W16A	Flagstaff	
W17A	Winslow	
W18A	Petrified Forest	
W19A	Sanders	
W20A	Ramah	
W21A	San Fidel	
W22A	Albuquerque	
W23A	Werner Place, Edgewood	
W24A	Lazy 6 Ranch, Villanueva	
W25A	X Bar L Ranch, Newkirk	
W26A	Owens Ranch, Tucumcari	
W27A	Bowe Ranch, Endee	
W28A	Vega	
W29A	Amarillo	
W30A	Crocket Farms Inc., Mclean	
W31A	Holland Ranch, Erick	
W32A	Sentinel	
W33A	Caddo, Fort Cobb	
W34A	Bridge Creek, Tuttle	
W35A	Tecumseh	
W36A	Wetumka	
W37A	Quinton	
W37B	Quinton	
W38A	Poteau	
W39A	Magazine	
W40A	Ferguson Farm, Pottsville	
W41A	Tony Mavity, Velonia	
W41B	Gary Mavity, Velonia	
W42A	Bald Knob	
W43A	Forest City	
W44A	Shelby Farms Park, Memphis	
W45A	Hickory Valley	
W46A	Michie	
W47A	Westpoint	
W48A	Pulaski	
W49A	Belvidere	
W50A	Signal Mountain	
W51A	Cleveland	
W52A	Murphy	
W53A	Cullowhee	
W54A	Cherokee Point, Campobello	
W56A	Indian Trail	
W57A	Gilead	
W58A	Raeford	
W59A	Clinton	
W60A	Pink Hill	
W61A	Ground Anchor Farm, New Bern	
WA-	Watson	WA-OK
WA1	Wongan Hills	
WA2	Wagin	
WA3	Talbot Brook	
WA4	Burakin	
WAA	Waris	
WAB	Wabag	
WABN	Wabush	
WACK	Wrangell Chichokna Glacier	
WACR	West Acre	
WACZ	Wakanui South Island, New Zealand	
WAD	Wadsworth	
WADM	Wardell	
WAGN	Wager Bay	
WAH	Wahluke	
WAH2	Wahluke Slope	
WAHZ	Wakarara	
WAI	Wairiri	
WAJ	Wa jima	
WAJH	Al Wajh	
WAK	Wakkanai	
WAKE	Wake Island	
WAKJ	Wakkanai	
WAKR	Walker	
WAL	Wallace	
WAL1	Walls	
WALA	Waterton Lakes	
WALHA	Wallhausen, DE	
WALJ	Wala	
WALK	Watson Lake	
WALU	Walls	
WAM	Wambrook	
WAMI	Wamena	
WAN	Wanliss Street	
WANC	Wrangell North Crater	
WANE	Ethiopian Broadband Seismic Experiment	
WA-OK	Watson	
WAPA	Wapiti River	
WAR	Warsaw	
WARB	Warburton	
WARN	West Arenal	
WAS	Washington	
WASH	Ethiopian Broadband Seismic Experiment	
WASL	Wasel	
WASM	Alta Sierra Campground	
WASW	Wrangell Southwest	
WAT	Watheroo	
WATA	Walderalm	
WATZ	Wairara	
WAU	Wau	
WAX	Waxell Ridge	
WAY	Waynesburg	
WAZ	Wanganui	
WAZA	Wrangell Mount Zanetti	
WB0	Warramunga Array Site B0	
WB1	Warramunga Ar.	
WB2	Warramunga Array Site B2	
WB3	Warramunga Array Site B3	
WB4	Warramunga Array Site B4	
WB5	Warramunga Array Site B5	
WB6	Warramunga Array Site B6	
WB7	Warramunga Array Site B7	
WB8	Warramunga Array Site B8	
WB9	Warramunga Array Site B9	
WBA	Furth	
WBAQ	Buaraba 3	
WBB	Darmstadt	
WBC	Weber Canyon	
WBCY	West Bay, Grand Cayman	
WBD	Lorch/Rhein	
WBE	West Bromwich	
WBG	Bieber	
WBH	Biblis	
WBHL	Wabush	
WBHS	Wadi 'Ibn Hashbal	
WBI	Whiskey Butte	
WBK	Wadi Bani Khalid	
WBL	White Bluff	
WBMM	Breckenridge Mountain	
WBN	Warburton	
WBNH	Wolfeboro	
WBO	Williamsburg	
WBR	Bronaber	
WBS	Wahnbachtalsperre	
WBSI	Waikabubak, Sumba	
WBSM	Bird Springs	
WBW	Wilson Butte	
WC1	Warramunga Array Site C1	
WC2	Warramunga Array Site C2	
WC3	Warramunga Array Site C3	
WC4	Warramunga Array Site C4	
WCB	Warramunga Array	
WCB1	Church Bay	
WCBC	Windy Craggy	
WCC	Westchester Community College	
WCCN	Westchester CC	
WCFM	Cactus Flat W	CFWM
WCGM	China Gardens	CGSM
WCH	Changhua City	
WCHH	Zhanghua	
WCHM	Chimney Peak	
WCI	Wyandotte Cave	
WCIL	Waubonsee CC	
WCK	Wilson Creek	
WCM	Warland Creek	
WCN	Washoe City	
WCNB	Wards Creek	
WCNY	West Carthage	
WCO	Washington City	
WCOM	Cook Peak	
WCPM	Cactus Peak W	CPTM
WCSM	Coso Springs S	CSSM
WCT	Wildcat Mountain	
WCU	Willow Creek	
WCXM	China Lake Receiver Site	
WCZ	Waipu Caves	
WD-	Windom	WD-MN
WDB	Woudbloem	
WDB1	Woudbloem 1	
WDB2	Woudbloem 2	
WDB3	Woudbloem 3	
WDB4	Woudbloem 4	
WDBM	Warragamba Dam	
WDC	Whiskeytown Dam	
WDD	Wied Dalam	
WDG	Wallace Dam	
WDGT	Dungji	
WDIN	Wadesville	
WDIS	Woodlark Island	
WDJ	Dajia District, Taichung City	
WDL	Douliou City	
WDLH	Douliu	
WDLM	Western Deep Levels Mine	
WD-MN	Windom	
WDO	Saint George	
WDS	Woodside	
WDT	Danda	
WDW	Wainui Dam	
WDY	Woody	
WEBT	Westdahl Beartrack Creek	
WECS	Westdahl Cape Sarichef	
WEGH	Weija	
WEIL	Weil am Rhein	
WEIN	Weingarten	
WEK	Wewak	
WEL	Wellington	
WELK	Ethiopian Broadband Seismic Experiment	
WEMQ	Wemindji, Quebec	
WEN	Wenatchee	WNW
WENL	Wente Vineyards, Livermore	
WEO	Welcome	
WER	Werombi	
WERC	Wheeler Ridge	
WERD	Werda	
WERN	Wernitzgruen	
WES	Weston	
WESC	Westside School	
WESE	West Dahl East	
WESF	Westfeld	
WESN	West Dahl North	
WESP	Westdahl Peak	
WESS	West Dahl South	
WEST	Westmoreland	
WET	Wettzell	
WEW	Wewak	
WEWK	Wewak	
WF-	Wykoff	WF-MN
WFAR	Faris Peak	
WFB	Fairbourne	
WFF	Whiting Field	
WFM	Westford	
WF-MN	Wykoff	
WFSB	Wu-fen Shan	
WG2	Wallula Gap	
WG3	Wallula Gap	
WGAR	Walnut Grove	
WGB	Blue River	
WGBM	Warragamba	
WGK	Gukeng	
WGL	Warangal	
WGLY	Wegel	
WGMA	Westboro	
WGW	Wallila Gap	
WGZ	Waimangu	
WH-	Whitehorse	WH-YK
WH2	Whipple Mountains 2	
WH2*	Whitehorse	WH2YK
WH2YK	Whitehorse	
WHA	Wahaula	
WHAB	Al Wahab	
WHAR	Wooly Hollow	
WHB	Whistler	
WHC	Whitehorse	
WHF	Hehuan Shan	
WHFM	Hanning Flat	
WHFN	White Fish Lake	
WHFO	Wadi Hawf	
WHH	Whakatau	
WHHZ	Waihua	
WHI	Whitney	
WHM	Wild Horse Parks	
WHN	Wuhan	
WHNE	Wahoo	
WHP	Taichung City	
WHR		
WHRZ	Whale Island	
WHSM	Haiwe Spring S	HWSM
WHTX	Lake Whitney, Meridian	
WHTZ	Whakaora	
WHU	Wild Horse	
WHVM	Havilah	
WHVZ	Whangaehu Hut	
WHW	Wright's Hill	
WHY	Whitehorse	
WHYH	Whyalla	
WH-YK	Whitehorse	
WHYT	Xinyi Township	
WHZ	Wether Hill Road	
WI-	Winnemucca	WI-NV
WI01	McKinley Avenue, Clintonville	
WI02	Reinke Road, Clintonville	
WI03	Lunz Road, Clintonville	
WI04	River Road, Clintonville	
WIAZ	Waiheke Island	
WICI	Willow Creek	
WIFE	Three Sisters--Wife	
WIGH	Winneba	
WIH	Wilkes Camp	
WIHG	Wadia Institute--Dehra Dun	
WIL	Wilkes	
WILA	Wila	
WILL	Willung South	
WILN	Americas 2	
WIM	Isle of Man	
WIMIS	Wimmis	
WIMM	Wimmelburg	
WIN	Windhoek	
WINO	Wino	
WI-NV	Winnemucca	
WIS	Wister	
WISC	Wilburton Instructional Services Center	
WISH	Wishkah	
WIT	Witteveen	
WITU	Witu Islands	
WIW	Wooded Island	
WIZ	White Island	
WJHS		
WJPM	Johns Peak	
WJS	Zhushan	
WK-	Williams Lake	WK-BC
WKA	Willalooka	
WKB	White Rock	
WK-BC	Williams Lake	

Code	*Station Name*	*Other*
WKC	Walker Ridge	
WKC2	Walker Ridge	
WKE	Wake	
WKH	Waikii	
WKJ	Wajiki	
WKM	Welkom	
WKME	Wakayama	
WKR	Work Ranch	
WKTM	Kern-Tulare	
WKU	Wakaura	
WKY	Wakayama	
WKYJ	Wakayama 2	
WKZ	Wanaka	
WL-	Watson Lake	WL-YK
WLA	Wittsburg Lake	
WLAR	White Oak Lake	
WLC	Llyn Conwy	
WLCH	Liuqiu	
WLCT	Hsiaoliuchiu	
WLD	Wild Horse Canyon	
WLDR	Wildhorse	
WLF	Walferdange	
WLF1	Llynfaes	
WLFZ	Wanganui	
WLG	Waldron Ledge	
WLGB	Puzi	
WLHM	Little Horse	
WLI	Wellesley Island	
WLJ	Wildlife	
WLK	Wiest Lake	
WLL	Williamstown	
WLM	Willow Mountain	
WLO	Wilson	
WLPM	Leibel Peak	
WLS	Welschbruch	
WLTB	Daxi	
WLVO	Wesleyville	
WL-YK	Watson Lake	
WLZ	Whitehall	
WM-	Williams	WM-AZ
WMA	West Mesa	
WM-AZ	Williams	
WMBQ	Mount Brisbane	
WMD		
WME	Myndd Eilian	
WMGZ	Waiomatatini Station	
WMH	Warmenhuizen	
WMH1	Warmenhuizen	
WMH2	Warmenhuizen	
WMH3	Warmenhuizen	
WMH4	Warmenhuizen	
WML	Westmorland	
WMLT	Mailiao	
WMN	Winnemucca	
WMNY	West Monroe	
WMO	Wichita Mountains Array	
WMOK	Wichita Mountains	
WMOR	Whale Back Mountain	
WMQ	Urumqi	
WMR	Waimanalo Ridge	
WMS	West Middle School	
WMSJ	Wadi Mousa	
WMTN	White Oak Mountain	
WMU	West Mountain	
WMUT	West Mountain	
WMV	Walker Mountain	
WMY	Wakamiya	
WMZ	Williams	
WN-	Winner	WN-SD
WNC	Wilmington	
WND	Windham	
WNDE	Wendo Genet	
WNH	Whiteface	
WNMM	Nine Mile Canyon	NMC
WNN	Wann	
WNR	Windsor	
WNS	Wenas	
WN-SD	Winner	
WNT	Mingjian	
WNVZ	Wahianoa	
WNW	Wenatchee	
WNY	Wilmington	
WNZ	Wairakei	
WO-	Winslow	WO-AZ
WO-AZ	Winslow	
WOB	Weather Observatory	
WOFM	Oak Flat	
WOH	Wood Valley	
WOJI	Wonogiri, Jawa	
WOL	Wolverton	
WOLE	Ethiopia-Afar Geoscientific Lithospheric Experiment	
WOLH	Wollongong Hard Rock	
WON	Wolverton North	
WOO	Woodstock	
WOOD	Lake Woodford	
WOOL	Woolibar	
WOOM	Toowoomba	
WOR	Worcester	
WORM	Onyx Ranch	
WOSB	Woss	
WP01	e3381	
WP02	e3380	
WP04	e3369	
WP05	e3371	
WP06	e3382	
WP08	e3372	
WP20	e3385	
WP21	e3376	
WP22	e3183	
WPA	Woody Point	
WPB	Watts Point	
WPH	West Pit	
WPHZ	Waipukurau	
WPI	Wilson Peak	
WPL	Puli Township	
WPM	White Pine	
WPM1	Penmaenmawr	
WPMQ	Pine Mountain	
WPNY	West Park	
WPO	West Portland	
WPOG	Pogromni	
WPR	Ward Pound Ridge	
WPRZ	Whakapapataringa	
WPS	Cemaes, Anglesey	
WP-TX	Wills Point	
WPVZ	Whakapapa	
WPW	White Pass	
WPZ	Waipapa Point	
WQ-IL	Watseka	
WR-	Walnut Ridge	WR-AR
WR0	Warramunga Array Site R0	
WR1	Warramunga Array Site R1	
WR2	Warramunga Array Site R2	
WR3	Warramunga Array Site R3	
WR4	Warramunga Array Site R4	
WR5	Warramunga Array Site R5	
WR6	Warramunga Array Site R6	
WR7	Warramunga Array Site R7	
WR8	Warramunga Array Site R8	
WR9	Warramunga Array Site R9	
WRA	Warramunga Array Beam Reference Point	
WRAB	Tennant Creek	
WRAI	Warramunga Infrasound Array Beam Reference Point	
WRAK	Wrangell Island	
WR-AR	Walnut Ridge	
WRB	Warramunga Array	
WRC	Williams Ranch	
WRCM	Renegade Can. W	RCWM
WRCQ	Reedy Creek 5	
WRD	Warden	
WRDH	Warideh	
WRG	White River Glacier	
WRH	Wood River Hill	
WRKA	Warakurna	
WRM	Warmifontaine	
WRMHI	West Rim	
WRN	Worthington Mountains	
WRNM	Woronora	
WRPS	Penn State University	
WRS	Warsak Dam	
WRVM	Rose V. Central	RVCM
WRW	Wenatchee Ridge	
WS-	Waterways	WS-AT
WSA	Woomera	
WSAR	Wadi Sarin	
WS-AT	Waterways	
WSC	Washington Science Center	
WSCM	Short Canyon	
WSCO	Wright State University--Celina	
WSDO	Wright State University--Dayton	
WSDZ	Springvale	
WSF	Szhu	
WSFZ	Santoft	
WSH	Washington Hill	
WSHM	Spangler Hills	
WSI	Waingapu	
WSIL	West Salem	
WSLR	Whistler	
WSN	Warm Springs	
WSNC	Winespring Bald	
WSNZ	Santoft	
WSP	Warm Springs	
WSPT	Westport, CT	
WSR	Warm Springs Repeater	
WSRZ	White Island Summit, North Island, New Zealand	
WSS	West Ashley	
WSSB	Gushan	
WSSR	Wesser Bold	
WSSZ	Parewanui	
WST	Stwlan	
WSYH	La Gonave Hosp	
WT-	Wartburg	WT-TN
WTAZ	Waiatarua	
WTC	Waterton	
WTCR	Whites Canyon	
WTCT	Ta-ch'eng	
WTGQ	Toogoolawah	
WTMTA	White Mountain Lookout Tower, Alberta	
WTP	Ta-pu	
WTR	Waterville	
WTRB	White River	
WTRQ	Thallon Road	
WTS	Winterswijk	
WTSB	Winterswijk	
WTT2	Watts, South Gate	
WTTA	Wattenberg	
WT-TN	Wartburg	
WTU	Western Traverse Mountains	
WTUG	Tugumak	
WTV	Waterville	
WTVE	Waterville	
WTVZ	West Tongariro	
WTW	West Thumb	
WTX	Workman Tunnel	
WTZ	Whakatane	
WUAZ	Wupatki	
WUC	Wuhan	WHN
WUET	Wuestenhain	
WUH	Wuhan	
WUPA	West Chester University of Pennsylvania, USA	
WUS	Wushi	
WUW	Wuwei	
WUWY	Wally Ulrich	
WVIL	Wabash College	
WVL	Waterville	
WVLY	West Valley	
WVNY	West Valley, New York	
WVOR	Wild Horse Valley	
WVPM	Volcano Peak E	VPEM
WVR	Vyrnwy	
WVT	Waverly	
WVUT	Wellsville	
WVZ	Waitaha Valley	
WW-	Wah Wah Mts	WW-UT
WWHQ	Wivenhoe Hill 3	
WWHS	Walla Walla High School ANSS SMO	
WWKK	Wewakk	
WWPM	Walker Pass	
WWR	Whitewater	
WW-UT	Wah Wah Mountains	
WWW	Wewak	
WY-	Wynne	WY-AR
WY0	Wyoming Array	WYO
WYA	Wyangala	
WY-AR	Wynne	
WYBT	Wynnburg	
WYH	Wyhlen	
WYL	Yuanlin Township	
WYN1	Wijnaldum	
WYN2	Wijnaldum	
WYN3	Wijnaldum	
WYN4	Wijnaldum	
WYO	Wyoming Array	
WZ-NV	Warm Springs	
X102	Greenbrier Site X102	
X13A	Yucca	
X14A	Yava	
X15A	Humboldt	
X16A	Lo Mia Camp, Pine	
X17A	Forest Lakes	
X18A	Snowflake	
X19A	St. Johns	
X201	Greenbrier Site X201	
X20A	Quemado	
X21A	Alamocita Creek, Datil	
X22A	Bernardo	
X23A	Hourglass Bar Ranch, Mountainair	
X24A	Lazy VL Ranch, Encino	
X25A	Clemmons Ranch, Yeso	
X26A	CR and CF Franklin Farms, Melrose	
X27A	F and S Farms, Texico	
X28A	Dimmitt	
X29A	Tulia	
X301	Greenbrier Site X301	
X30A	Coker Ranch, Turkey	
X31A	McDonald Ranch, Hollis	
X32A	Elmer	
X33A	Lawton	
X34A	Smith Ranch, Marlow	
X35A	Drake	
X36A	Centrahoma	
X37A	Clayton	
X38A	Whitesboro	
X39A	Fountain Ranch, Mena	
X40A	Basin Creek Farm, Marlvern	
X41A	Kaden, Bauxite	
X42A	Stuttgart	
X43A	Marvell	
X44A	Crenshaw	
X45A	UM Field Station, Abbeville	
X46A	Booneville	
X47A	Russelville	
X48A	Hartselle	
X49A	Woodville	
X50A	Fort Payne	
X50B	Fort Payne	
X51A	Calhoun	
X52A	Dahlonega	
X53A	Estanollee	
X54A	Belton	
X55A	Gracelyn & Ava, Whitmire	
X56A	White Oak	
X57A	Johnson Farm, Hartsville	
X58A	Rowland	
X59A	McDuffie Farm, Elizabethtown	
X60A	Albert Glenn Thornton	
XAL	Allendale	
XAN	Xi'an	
XAN2	Xanthi	
XAVN	Gruta Xavier	
XDE	Dent Fell	
XIN	Xingo	
XIO	Khios Island	
XIXI	Borongxiang, Xizang Zizhiqu	
XLV	Seldovia	
XMAS	Kiritimati	
XMI	Christmas Island	
XMIS	Christmas Island	
XMS	Christmas Canyon	
XNQ	Khinaliq	
XNZR	Khunzakh	
XOR	Xorichti	
XPFO	Pin@16on Flat	
XPSS	Dashiqiu	
XRY	Khrisi	
XSO	Sourhope Farm	
XTAL		
XTL	Crystal Lake, Glendora	
XTNZ	Xhotanan	
XYB	Khnkoyan	
Y12C	Blythe	
Y13A	Salome	
Y14A	Wickenburg	
Y15A	Casa Rosa Ranch, Morristown	
Y16A	Circle Bar Ranch, Sunflower	
Y17A	Roosevelt	
Y18A	Canyon Day Junior High, Whiteriver	
Y19A	Nutrioso	
Y20A	Horse Springs, Datil	
Y21A	Point of Rocks Canyon, Magdalena	
Y22A	Socorro	
Y22C	IRIS PASSCAL Instrument Center, Socorro	
Y22D	IRIS PASSCAL Instrument Center, Socorro	
Y22E	IRIS PASSCAL Instrument Center, Socorro	
Y23A	Lovelace Mesa, Carrizozo	
Y24A	Capitan	
Y25A	Mesa, Roswell	
Y26A	Elida	
Y27A	Causey	
Y28A	McKinney Farm, Littlefield	
Y29A	Porterfield Farm, Petersburg	
Y30A	Stafford Cattle Company, Roaring Springs	
Y31A	Rekieta Farm, Paducah	
Y32A	R-V Farms, Vernon	
Y33A	Hilltop Ranch, Iowa Park	
Y34A	Reagan Ranch, Oscar	
Y35A	Marietta	
Y36A	Durant	
Y37A	Hugo	
Y38A	Idabel	
Y39A	Lockesburg	
Y40A	Okolona	
Y41A	Eaglette Bearden	
Y42A	Garnett, Star City	
Y43A	Makayla and Karen, Gunnison	
Y44A	Strider, Charleston	
Y45A	Yeager Farm, Coffeeville	
Y46A	Houston	
Y47A	UCPARC, Winfield	
Y48A	Jasper	
Y49A	Blount Mountain	
Y50A	Piedmont	
Y51A	Rockmart	
Y52A	Lilburn	
Y53A	Monroe	
Y54A	Tignall	
Y55A	Saluda	
Y56A	Pelion	
Y57A	Sumter	
Y58A	Scranton	
Y59A	Loris	
Y60A	Bolivia	
YA-	Yakima	YA-WA
YA2	Yakima	
YAG	Yagi	
YAGS	Yagodnoe	
YAH	Yahtse	
YAHU	Yahuarcocha	
YAHY	KAYSERI_Yahyali	
YAIG	Yautepec	
YAK	Yakutsk	
YAKW	Yakima	
YAL	Yalta	
YALR	Yailyu, Altay Republic, Russia	
YAM	Yamagata	
YAMJ	Yamagata	
YAMN	Yamanlar	
YAN	Yangoru	
YANA	Yana	
YANT	Yantzaza	
YAPA	Yangpyeong	
YAQ	Yaqui Meadows	
YAR	Yar	
YARA	Arangoiti	
YARM	Yarimca-Ladik(Samsun)	
YAS	Yuasa	
YASH	Mount Yoash	
YASP	Aspurt	
YASR	Yasnyy	
YASS	Yasnyy	
YAT	Yaldymych	
YATNC	Mamie plateau, Yate, New Caledonia	
YA-WA	Yakima	
YAY	Yayoi	
YAYL	Yayladag	
YAYX	Yaylak	
YBER	Berdun	
YBGR	Belaya Gora	
YBH	Yreka Blue Horn Mine, Yreka	
YBIB	Yerba Buena Island	
YBKN	Baker Lake, Hudson Bay	
YBMT	Yellow Bay	
YBT	Youssef Ben Tachfine	
YCA	YACYRETA	
YCB	Yellow Creek Bluff	
YCM	YMCA Camp	
YCRN	Chernyshevskiy	
YDRA	Hydra	
YE6	Yeelanna, site6	
YECH	El Yeso	
YEDI	Yedisu-Bingol	
YEG	Yeguas Mountain	
YEL	Yellow Rock	
YEL1	Yell	
YELT	Yellice	
YELU	Yell	
YER	Yerkesik	
YERM	Yerranderie	
YERR	Yerington	
YESI	Yesilovacik-Mersin	
YESY	Yesilyurt	
YF2NV	Yucca Flat NTS	
YF3NV	Yucca Flat NTS	
YF4NV	Yucca Flat NTS	
YF-NV	Yucca Flat NTS	
YFT	Old Faithful	
YGI	Yagi	
YHB	Horse Butte	
YHH	Holmes Hill	
YHJ	Yallahs	
YHK	Yuen Ng Fan	
YHKE	Yahiko	
YHL	Hebgen Lake	
YHNB	Yeheng	
YIGI	D'…zce	
YIN	Yingkou	
YJA	Yavi	
YJC	Joseph's Coat	
YJD	YOUNGJONGDO	
YKA	Yellowknife Array Beam Reference Point	
YKAB0	New Yellowknife Blue 10	
YKAB1	New Yellowknife Blue 1	
YKAB2	New Yellowknife Blue 2	
YKAB3	New Yellowknife Blue 3	
YKAB4	New Yellowknife Blue 4	
YKAB6	New Yellowknife Blue 6	
YKAB7	New Yellowknife Blue 7	
YKAB8	New Yellowknife Blue 8	
YKAB9	New Yellowknife Blue 9	
YKAR1	New YK Array red 1	
YKAR2	New YK Array red 2	
YKAR3	New YK Array red 3	
YKAR4	New YK Array red 4	

Code	Station Name	Other
YKAR5	New YK Array red 5	
YKAR6	New YK Array red 6	
YKAR7	New YK Array red 7	
YKAR8	New YK Array red 8	
YKAR9	New YK Array red 9	
YKAV	Yalikavak-Bodrum	
YKB0	Yellowknife Array Site B0	
YKB1	Yellowknife Array Site B1	
YKB2	Yellowknife Array Site B2	
YKB3	Yellowknife Array Site B3	
YKB4	Yellowknife Array Site B4	
YKB5	Yellowknife Array Sites B5 and R8	
YKB6	Yellowknife Array Site B6	
YKB7	Yellowknife Array Site B7	
YKB8	Yellowknife Array Site B8	
YKB9	Yellowknife Array Site B9	
YKBL	Yakuplu-Istanbul	
YKC	Yellowknife	
YKE	Yakedake	
YKGM	Yakataga	
YKI	Yokaichiba	
YKLR	Yuktali	
YKM	Yaak	
YKR0	Yellowknife Array	
YKR1	Yellowknife Array Site R1	
YKR2	Yellowknife Array Site R2	
YKR3	Yellowknife Array Site R3	
YKR4	Yellowknife Array Site R4	
YKR5	Yellowknife Array Site R5	
YKR6	Yellowknife Array Site R6	
YKR7	Yellowknife Array Site R7	
YKR8	Yellowknife Ar.	YKB5
YKR9	Yellowknife Array Site R9	
YKS	Yaku shima	
YKT	Yakutat	
YKU	Yakutat	
YKU2	Yakutat	
YKW1	Yellowknife Array Site W1	
YKW2	Yellowknife Array Site W2	
YKW3	Yellowknife Array Site W3	
YKW4	Yellowknife Array site W4	
YLA	Ilan	ILA
YLE	Yale	
YLL	Llanberis	
YLNS	Uelen temporary site, Chukotka	
YLT	Little Thumb Creek	
YLV	Yalova	
YLVH	Yalova	
YLYR	Ulyunkhan	
YM01	YM01	
YM03	YM03	
YM04	YM04	
YM05	YM05	
YM06	YM06	
YM07	YM07	
YM08	YM08	
YM09	YM09	
YM10	YM10	
YM11	YM11	
YM12	YM12	
YMBN	Yamba Lake	
YMC	Maple Creek	
YMD	Yuma Desert	
YML	Mary Lake	
YM-NV	Yucca Mountain	
YMP	Mirror Lake Plateau	
YMR	Madison River	
YMS	Mount Sheridan	
YMT1	Yucca Mountain	
YMT2	Yucca Mountain	
YMT3	Yucca Mountain	
YMT4	Yucca Mountain	
YMT5	Yucca Mountain	
YMT6	Yucca Mountain	
YMUS	Pe^–a Musera	
YMV	Mammoth Vault	
YMZ	Yamizo	
YMZU	Yamizo	
YNAR	Nardues-Aldunate	
YNB	Natural Bridge	
YNBS	Yanbu‘ al Bahr	
YNC	Yinchuan	
YNCB	YEONCHEON	
YND	Yaounde	
YNE	Yellowstone Northeast Entrance	
YNEN	Yamba Lake Northeast	
YNG	Young	
YNGY	Yangiyul	
YNM	Yellowstone Norris Museum	
YNR	Norris Junction	
YNT	Yunotani	
YOA	Uoyan	
YOBS		
YOGI	Yogyakarta	
YOJ	Yonaguni jima	
YOK	Yokohama	
YOKT	Yokooka	
YOMI	Yo Moklole	
YON	Yonago	
YONJ	Yonago 2	
YOO	Oaxaca	
YOPC	Yopal, Colombia	
YORU	Yoruktepe-Mersin	
YOS	Yoshiwara	
YOSD	Yoshimatsu	
YOSQ	Ashton Mining of Canada property	
YOTC	Yotoco, Valle del Cauca	
YOU	Young	
YOUB	Youbou, Lake Cowichan	
YOVA	Hakkari_Y^…ksekova	
YOZ	Yozgat	
YPBB	Black Butte	
YPBE	Bechler	
YPBR	Bridge Bay	
YPCJ	Canyon Junction	
YPDC	Denny Creek	
YPE	Yupe	
YPEE	East Entrance	
YPGV	Grant Village	
YPHR	Hebgen Ridge	
YPHS	Hot Springs Basin	
YPLA	Lake Butte	
YPLB	Lake Butte	
YPLK	Lake Junction	
YPM	Purple Mountain	
YPMF	Mesa Falls	
YPML	Mary Lake	
YPOF	Old Faithful	
YPP	Pitchstone Plateau	
YPPC	Pelican Cone	
YPRL	Red Lodge	
YPSB	Soda Butte	
YPSE	South Entrance	
YPT	Yellepit	
YPTB	Twin Buttes	
YPTS	Trude Siding	
YPWB	West Boundary	
YR-	Yreka	YR-CL
YRC	Rhoscolyn	
YR-CL	Yreka	
YRD	Yardimli	
YRE	Yr Eifl	
YRG	Yaruga	
YRH	Rhiw	
YRTN	Rankin Inlet	
YSA	Yasawairara	
YSIG	Sigues	
YSK	Yokosuka	
YSM	Yoshimatsu	
YSNY	Yorkshire	
YSOS	Sos del Rey Catolico	
YSS	Yuzh-Sakhalinsk	
YST	Yumesaki	
YSUO	Youngstown State University	
YTC	Trail Creek	
YTIR	Yattir	
YTP	The Promontory	
YTV	Yen Tu	
YUB	Yubileniya	
YUF	Upper Falls	
YUH	Yuha Desert	
YUK	Yuzh-Kuril'sk	
YUK1	Sand Pete Hill	
YUK2	White River	
YUK3	Moose Creek	
YUK4	Talbot Arm	
YUK5	Granite Creek	
YUK6	Outpost Mountain	
YUK7	Dusty Glacier	
YULB	Yu-li	
YUM	Yumen	
YUMT	Yumurtalik	
YUND	Undues	
YUNZ	YUNZ	
YUO	Iwo jima	
YUP	Yupiltepeque	
YURE	YUREGIR	
YUS	Yu-Shan	
YUVA	Yuva-Kibriscik (Bolu)	
YVAC	Isparta/Yalva^§-^zg^…ney	
YVAM	Verhnyaya Amga	
YWY	West Yellowstone	
YYI	Yaongyimsen	
YYYY	Yonkie	
YZKH	Yazd	
YZT	Yamasaki	
YZU	Yuzawa	
Z13A	Yuma Proving Gounds (US Army), Dateland	
Z14A	Wintersburg	
Z15A	Gila River Indian Community, Laveen	
Z16A	Peralta Trail, Apache Junction	
Z17A	San Carlos High School, San Carlos	
Z18A	Geronimo	
Z19A	T-Link Ranch, Clifton	
Z20A	Nine Sixteen Ranch, Cliff	
Z21A	St. Cloud Mine, Winston	
Z22A	Elephant Butte, Truth or Consequences	
Z23A	Rita Site, White Sands Missle Range	
Z24A	Sheeppen Canyon, Tinnie	
Z25A	Roswell	
Z26A	Caprock	
Z27A	Tatum	
Z28A	Tucker Farm, Meadow	
Z29A	Hungry Hill Ranch, Wilson	
Z30A	Sanderson Ranch, Post	
Z31A	Sharp Cattle Ranch, Aspermont	
Z32A	Haskell	
Z33A	Whitaker Ranch, Olney	
Z34A	Collier Ranch, Chico	
Z35A	Perchaven, Sanger	
Z36A	Blue Ridge	
Z37A	Pogue Cattle Company, Sulphur Springs	
Z38A	Mt. Pleasant	
Z39A	Irene McRaven, Queen City	
Z40A	Long Farm, Magnolia	
Z41A	Richland Creek Farm, El Dorado	
Z42A	Norrel Spur, Hamburg	
Z43A	Armstrong Family, Eudora	
Z44A	Pea Ridge, Belzoni	
Z45A	Winona	
Z46A	Louisville	
Z47A	Carrollton	
Z48A	Northport	
Z49A	Columbiana	
Z50A	Ashland	
Z51A	Franklin	
Z52A	Williamson	
Z53A	Monticello	
Z54A	Sparta	
Z55A	Blythe	
Z56A	Williston	
Z57A	Bowman	
Z58A	St. Stephen	
Z59A	Georgetown, SC	
ZA1	Zafferana	
ZAA0	Zalesovo Array Site A0	
ZAA1	Zalesovo Array Site A1	
ZAA2	Zalesovo Array Site A2	
ZAA3	Zalesovo Array Site A3	
ZAB	Zabrze	
ZAB1	Zalesovo Array Site B1	
ZAB2	Zalesovo Array Site B2	
ZAB3	Zalesovo Array Site B3	
ZAB4	Zalesovo Array Site B4	
ZAB5	Zalesovo Array Site B5	
ZAC	Zacaltic	
ZACH	Zapallar	
ZAF	Zafarana	
ZAG	Zagreb	
ZAG*	Zagreb	
ZAGS	Zajecar	
ZAI	Zaio	
ZAIG	Zacatecas	
ZAK	Zakamensk	
ZAK2	Zakynthos	
ZAL	Zalesovo	
ZALD	Colegio Gonzalo Zaldumbide - Quito	
ZALF	Zalf	
ZALV	Zalesovo Beam	
ZAM	Aeronautique	
ZAN	Zante	
ZANG	Zanguenga, Chorrera	
ZAPC		
ZAPS	Zavoj	
ZARC	Zaragoza, Cauca	
ZATK	Zatriq	
ZAV	Zavalia	
ZAVE	Correggio Bag	
ZAVS	Zavodnje	
ZAX	El Zacaton	
ZBID	Zabid	
ZCCA	Zocca	
ZCP	Zamboanga City	
ZEA	Zeya	
ZEDA	˜zmir-Bergama	
ZEI	Tsey	
ZEIT	Gabal Elzet	
ZEM	Michoacan	
ZEN8	San Zeno di Montagna	
ZER	Zerhoun	
ZEU	Talsperre Zeulenoda	
ZEY	˜zmir	
ZEYE	˜zmir/Urla-Zeytineli	
ZFI	Zemlya Franca-Iocifa	
ZFI2	Zemlya Franca-Iocifa2	
ZFRI	Zfri	
ZFT	Errachidia	
ZGN	Zaghouan	
ZGR4	Zagorskoe	
ZGT	Zonguldak	
ZHC	Zelena Hora	
ZHGX	Zihuatanejo	
ZHI	Cilov Adasi	
ZHN	Zhinishke	
ZHOB	Zhob	
ZHSF	Zahedan	
ZIAN	Ziano	
ZIH	Zihuatanejo	
ZIIG	Zihuatanejo	
ZIM	Zimchurud	
ZIMR		
ZIN	Mount Zion Church	
ZIP	Tsipikan	
ZIRI	Ziria, Aigialia, West Greece	
ZIRJ	Zirje	
ZIRO	ZIRO	
ZIS	Zishin	
ZKR	Zakros	
ZKS	Zakynthos	
ZKT	Zaqatala	
ZKTA	Zakatala	
ZKW	Sheshan	
ZL21	Zuidlaarderveen (2)	
ZL22	Zuidlaarderveen (2)	
ZL23	Zuidlaarderveen (2)	
ZL24	Zuidlaarderveen (2)	
ZLA	Zuerich Laegern	
ZLDR	Utesnoe	
ZLN	Zelenaya	
ZLNR	Zelenogorsk	
ZLP	Zongo (La Paz)	ZOBO
ZLV	Zuidlaarderveen	
ZLV1	Zuidlaarderveen	
ZLV2	Zuidlaarderveen	
ZLV3	Zuidlaarderveen	
ZLV4	Zuidlaarderveen	
ZMN	Zimniki	
ZMP	Zamboanga	
ZMPH	Zamboanga City	
ZNGN	Zangian	
ZNH	Zanoah	
ZNJK	Zanja@18n	
ZNM	Zenema	
ZNPU	Zion National Park	
ZNT	Zur Nathan	
ZOBO	Zongo (La Paz)	
ZOMB	Zomba	
ZON	Zonda	
ZOU	Zoufplan	
ZOVE	Zovencedo	
ZOX	Ground Zero	GZN
ZPLA	Ao Xicun	
ZQRN	Zuqar Island	
ZRD	Zardab	
ZRH	Zaryechye, Baikal	
ZRHB	Zarechye	
ZRN4	Zerenda array site	
ZRN5	Zerenda array site	
ZRN6	Zerenda array site	
ZRN7	Zerenda array site	
ZRN8	Zerenda array site	
ZRN9	Zerenda array site	
ZRNK	Zerenda	
ZRO	Akutan Zero	
ZSC	Sheshan	
ZSC*	Sheshan	
ZSH	Tsaishi	
ZSN	Zaisan	
ZSP	San Pablo Dam	
ZST	Bratislava	
ZTZ	Tsit'eli Tsqaro	
ZUG	Zugdidi	
ZUL	Zurich-Lageren	
ZUMB	Zumba	
ZUQR	Zugar Island	
ZUR	Degenried	
ZUVM	ZUMPANGO	
ZWE1	Zweins	
ZWE2	Zweins	
ZWE3	Zweins	
ZWE4	Zweins	
ZYR	Zyryanka	
ZZA	Chiapas	
ZZJH	Jiuhuzhen	
ZZT	Zu Zu	

SEISMOLOGICAL OBSERVATORIES

IN ORDER OF GEOGRAPHICAL ZONE

AFRICA

Algeria
CAEH 'Ain El Ouahch
EANR 'Ain N'Sour
CASM Ain Smara
AKF Akfadou
MOLA ALG
ABA Alger-Bouzareah
ALG Algiers University
BAB Beni-Abbes
EBNR Beni Rached
CBND Bou Andas
ODJA Bouhanifia
ABMS Boumerdes
CNS Constantine
ESS CRAAG
CABS Djebel Ababsia ABSA
ABSA Djebel Ababsia
OJBR Djebel Berber
DFRA Djebel Bou Affroun
EBHM Djebel Bou Ahmed
OBLS Djebel Bou Ietas
EBOM Djebel Bou Maad
EBYL Djebel Bou Yalou
ADJB Djebel Djouab
OJGS Djebel Guires
OKGL Djebel Kef Guellal
AKET Djebel Ketaf
OKJL Djebel Kodjel
EMHD Djebel Mahouada
CMAH Djebel Manchoura
OMID Djebel Midouna
ESAD Djebel Saadia
ETHB Djebel Tachoubennt
ETAN Djebel Tanoua
ATAF Djebel Tarf
CTEI Djebel Teioualt
OTSS Djebel Tessala
ODZI Dziouia
ECHA Ech Chlef
ECHF Ech Chlef
CGMA Guelma
CGUE Guelma CGMA
IAA In Amguel
AKAY Kef Ayad
CKHR Kef el Ahmar
CKFL Kef-Lekhel
MEB Medea
AMDA Medea
CMER Merouana
OMET Metahra
AMRH Mont Rhoder
USTO Oran
OFD Oued Fodda
OLHC Oulhaca
REL Relizane
RLA Relizane
SET Setif
SKDA Skikda
TAM Tamanrasset
ETRT Tiaret
ATIP Tipaza
ATPZ Tipaza
TEC Tlemcen
OTLM Tlemcen

Angola
DUN Dundo
LUA Luanda
SDB Sa da Bandeira

Botswana
UBOT Bothatogo
KBH1 Kgwebe Hills
LBTB Lobatse
MWG1 Mawana Gate
MTP1 Motopi
ORC1 Okavango Research Center
QNG1 Qangwa
SVT1 Savuti
TOT1 Toteng
TSD1 Tsodilo

Cameroon
BNC Bambui
BTE Batoke
BKO Bokosso
EKC Ekona
FBT Foumbot
KMC Kompina
KBC Kumba
MOC Mount Cameroon
MOKC Mount Cameroon
NGC Ngoundere
YND Yaounde

Cape Verde Islands
BCCH Brava--Cachaco
SLES Espargos
FPPC Fogo--Pe de Pico
SVMA Madeiral
I11CV MAIO ISLAND INFRASONIC ARRAY REFERENCE POINT
SACV Santiago Island

Central African Republic
BCAO Bangui
BNG Bangui
BGCA Bogoin

Chad
ABC Abeche

Democratic Republic of the Congo
BIN Binsa
BULE Bulengo
BTC Butembo
DCC Delcommune
ESCO ESCO Site
GOM Goma
GUB Guba
KTL Katale
KBTI Kibati
KBBA Kibumba
KNN1 Kunene
KNN Kunene
LMA Le Marinel
LBGA Luboga
LBC Lubudi
ELI Lubumbashi
LBB Lubumbashi
LWI Lwiro
MLN Mulungwishi
RUM Rumangabo
RSY Rusayo
UVI Uvira
NYAM Volcan Nyalulag
NYI Volcan Nyirag

Djibouti
ART Arta
AGD Arta Grotte
ARO Arta Observatory
ATD Arta Tunnel
ATA Atar
BLSD Baie du Lac Sali
DAF Dafare
DAY Day
GBR Grand-Bara
HLD Halaksitan
I19DJ I19DJ
KSU Koussour
LARD Lac Aux requins
LDLD Lac de Lave
MAOD Malaho
MKL Maskali
MCAD Moucha
BEAD Nord Galaele Koma
OBO Obock
ODK Oud Koma
SGH Sud-Ghoubbet
TDJ Tadjoura
TDD Tadjoura Ara

Egypt
NADB Abo Dabab
AAHD Abu Hadid
HRDS Abu Rudays
ABUS Abu Simbel
ASL Abu Simbel
AADN Adndan
AYT Al 'Ayyat
FYM Al Fayyum
HHRG Al Ghardaqah
AKRG Al Kharijah
AANS Anshas
MANS Anshas
HSAF As Saff
ASW Aswan
HBNS Bani Suef
NBNS Bani Suef
HBST Basata
BRNS Bernies
HSHL Bi'r Shalatayn
HBRG Burj al 'Arab
DABA Dabaa
DABAA Dabaa2
HDK1 Dakhla
HDHB Dhahab
AUT El 'Aiyat
TAMRE El Minia
FYD Fayid
RYAN Fayoum
ZEIT Gabal Elzet
ATOT Gabel Atot
AGAL Gebel Alisa
AGMR Gebel Marawa
AGRW Gebel Rewraw
GRB Gharib
HHAG Hagoal
HAGS Hagol
HAMM Hamman Mousa
HLW Helwan
HEDF Idfu
KHB Jabal al Khashab
GTR Jabal at Tayr
HKAT Jabal Katrina
HMSM Jabal Masmas
GLL Jalalah
HKFR Khafra
AKRL Khor El Raml
AKSR Khor Sakr
KEG Kottamaia
KOT Kottamia
NMAN Kulet Umm Tiheiwat
AKUR Kurkur
MABD Mabed
AMAG Maghara
AMAN Manam
MMT Marsa Matruh
HMAT Matruh
MAT1 Matruh
MATC Matruh
HMYD Mayadein
MAZR Mazracia
EMRS Mersa Alam
NAHD NAHD
HNKL Nakhl
HNAT Natroun
ANAL New Alisa
NGAL NGAL
NGMR NGMR
NGWR NGWR
NNAL NNAL
NNMR NNMR
ANMR North Marawa
NSKD NSKD
SLUM Salum
SQR Saqqara
SH2 Sharm el Sheik
SHRM Sharm el Sheik
ASKD Sinn el Kaddab
SUZ Suez
TR1 Tor 1
TR2 Tor 2
ASHG Umm Shaghir
HDK2 Wahat Dakhilah
HFRF Wahat Farafirah
APRS Wahet Paris
AWAL West Alisa
AWKL West Kalabsha
ZAF Zafarana
ZNM Zenema
HSFG
ASUT
AWBH
SWA2
RSH
HADB
NUB
QEN
SWA1
HQSR
HCAT

Equatorial Guinea
Fernando Poo
MFP Moca

Eritrea
ABSE Abaselama
ASME Asmera
ASSBE Assab
NAB1 NAB1
NAB2 NAB2
NAB3 NAB3
NAB4 NAB4
NAB5 NAB5
NAB8 NAB8

Ethiopia
AAE Adis Abeba
ALME Alemaya
DESE Dese
DILA Dilla
GTFE Ethiopia-Afar Geoscientific Lithospheric Experiment
MELE Ethiopia-Afar Geoscientific Lithospheric Experiment
MIEE Ethiopia-Afar Geoscientific Lithospheric Experiment
BORE Ethiopia-Afar Geoscientific Lithospheric Experiment
ADEE Ethiopia-Afar Geoscientific Lithospheric Experiment
WOLE Ethiopia-Afar Geoscientific Lithospheric Experiment
DONE Ethiopia-Afar Geoscientific Lithospheric Experiment
INEE Ethiopia-Afar Geoscientific Lithospheric Experiment
GEWE Ethiopia-Afar Geoscientific Lithospheric Experiment
SENE Ethiopia-Afar Geoscientific Lithospheric Experiment
MECE Ethiopia-Afar Geoscientific Lithospheric Experiment
ASEE Ethiopia-Afar Geoscientific Lithospheric Experiment
SHEE Ethiopia-Afar Geoscientific Lithospheric Experiment
AWAE Ethiopia-Afar Geoscientific Lithospheric Experiment
LEME Ethiopia-Afar Geoscientific Lithospheric Experiment
DZEE Ethiopia-Afar Geoscientific Lithospheric Experiment
CHAE Ethiopia-Afar Geoscientific Lithospheric Experiment
KOTE Ethiopia-Afar Geoscientific Lithospheric Experiment
AREEX Ethiopia-Afar Geoscientific Lithospheric Experiment
AMME Ethiopia-Afar Geoscientific Lithospheric Experiment
ANKE Ethiopia-Afar Geoscientific Lithospheric Experiment
DIKE Ethiopia-Afar Geoscientific Lithospheric Experiment
NURE Ethiopia-Afar Geoscientific Lithospheric Experiment
MEKE Ethiopia-Afar Geoscientific Lithospheric Experiment
ADUE Ethiopia-Afar Geoscientific Lithospheric Experiment
BEDE Ethiopia-Afar Geoscientific Lithospheric Experiment
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Experiment E2449
E2451 Ethiopia-Afar
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Experiment E2451
E31 Ethiopia-Afar
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Experiment E31
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Experiment E3110
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Experiment E3114
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Experiment E3120
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Experiment E32
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Experiment E3209
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Experiment E3323
E34 Ethiopia-Afar
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Experiment E37
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Experiment E48
E49 Ethiopia-Afar

Geoscientific Lithospheric Experiment E49
E50 Ethiopia-Afar Geoscientific Lithospheric Experiment E50
E51 Ethiopia-Afar Geoscientific Lithospheric Experiment E51
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E84 Ethiopia-Afar Geoscientific Lithospheric Experiment E84
E85 Ethiopia-Afar Geoscientific Lithospheric Experiment E85
BAHI Ethiopian Broadband Seismic Experiment
JIMA Ethiopian Broadband Seismic Experiment
BUTA Ethiopian Broadband Seismic Experiment
ARBA Ethiopian Broadband Seismic Experiment
WASH Ethiopian Broadband Seismic Experiment
HIRN Ethiopian Broadband Seismic Experiment
NAZA Ethiopian Broadband Seismic Experiment
CHEF Ethiopian Broadband Seismic Experiment
BIRH Ethiopian Broadband Seismic Experiment
BDAR Ethiopian Broadband Seismic Experiment
BELAX Ethiopian Broadband Seismic Experiment
GUDE Ethiopian Broadband Seismic Experiment
GOBAX Ethiopian Broadband Seismic Experiment
KARAX Ethiopian Broadband Seismic Experiment
FICH Ethiopian Broadband Seismic Experiment
NEKE Ethiopian Broadband Seismic Experiment
DIYAX Ethiopian Broadband Seismic Experiment
WANE Ethiopian Broadband Seismic Experiment
DMRK Ethiopian Broadband Seismic Experiment
DELE Ethiopian Broadband Seismic Experiment
WELK Ethiopian Broadband Seismic Experiment
TEND Ethiopian Broadband Seismic Experiment
HOSA Ethiopian Broadband Seismic Experiment
HERO Ethiopian Broadband Seismic Experiment
TERC Ethiopian Broadband Seismic Experiment
FURI Furi
HARA HARA
WNDE Wendo Genet

Gabon
MSKU Masuku

Ghana
AKGH Akosombo
HOGH Ho
KOGH Koforidua
KUK Kukurantumi
LEGH Legon
LGG Legon
SPG Saltpond
SHGH Shai Hills
TEGH Tema
WEGH Weija
WIGH Winneba

Guinea
KING Kindia
LABG Labe
MAMG Mamou

Ivory Coast
DBIC Dimbokro
I17CI DIMBOKRO INFRASONIC ARRAY REFERENCE POINT
LKO Korhogo
KIC Kosan Boka
LIC Lamto
TIC Toumodi
DIC

Kenya
KIBK Kibwezi
KMBO Kilima Mbogo
LODK Lodwar
MAGK Magadi
MERK Meru
MILK Milimani
NBI Nairobi
NAKO Nairobi NAI
NAI Nairobi
I32KE NAIROBI INFRASONIC ARRAY REFERENCE POINT
NYRK Nyeri
OLK Olkaria
OLWK Olkaria West

Libya
LJBD Adjabya
ALAS Alassa
MARJ Al Marj
GHAR Gharyan
LGHD Ghdames
LJFR Jufra
LKFR Kufra
LMSR Misrath
LUMB Murzuk
LSHF Shwairf
LSRT Sirt
LTBQ Tobruq
LTRP Tripoli
LUJL Ujela
LZLA Zalla

Madagascar
OBY Ambatonomby
ATG Ambohiby
OPO Ambohidratompo
ABM Ambohimiarambe
ABPO Ambohimpanom
AVY Angavokely
I33MG ANTANANARIVO INFRASONIC ARRAY REFERENCE POINT
FRR Firariana
FIRM Firavahana
MDSM Mandiavato
FOMA Nahampoana Res
SBV Sambava
TAN Tananarive
VTY Vatovaky
VDA Vodivohitra
VOI Vohitsoka

Malawi
BANG1 Bangula
CLK Chileka
KARM1 KARONGA
LILM Lilongwe
MALM Malindi
MZM2 Mzuzu
MZM Mzuzu
NENM1 Neno
SINGM SINGM
VWZMW Thunduwike
ZOMB Zomba

Mali
KOWA Kowa

Morocco
AFS Agadir Fac de Sc.
AOF Agadir Oufela
AIT Ait Ouarda
ANTZ Aouinet Torkoz
ALZ Aoulouz
AVE Averroes
BAM Barrage Abdel Moumen
BMK Barrage El Makhazine
BBT Barrage Ibn Batouta
BME Barrage Mansour Eddahbi
BMB Barrage Mohamed Ben Abdellah
BMKM Barrage Mohammed V
BMD Beni Messoud
BIT B. Ibn Batouta BBT
BOJ Boujaaouane
BBA Boulbra
CGR Cap Guir
CPS Cap Spartel
CHEFC Chefchaouen
CIA Chichaoua
CZD Col de Zad
MDAL Dalia
DKH Dar Kharkhour
DKD Dar Kodiat
KIB El Ksiba
ERR Err
ZFT Errachidia
FOE Fourare
HALM Halim
HAD Hassan Addkhil
IDR Idriss Premier
IFR Ifrane
IMK Imi Mikki
CHAS Isla Isabel II, Islas Chafarinas
JBB Jbel Babet
JHA Jbel Lahdid
JOK Jbel Ouklim
KHF Khenifra
KRAM Krabesse
KES Ksar Es Souk HAD
LRO Larroussi
EMLI Melilla
MDT Midelt
MIF Mishlifen
NKM Nakhla
OKL Od Khalfella
OUJ Oujda
OUK Oukaimeden
MPAL Palemas
ALHU Pen de Alhucemas
RBA Rabat
RTC Rabat Centre
RBZ Rabat Zaers
RSA Sarsar
SICH Sidi Chahed
SOIM Smimou
SMRM Smir
TAF Taforalt
TGT Taghat
TZK Tazeka
TZC Tazercounte
MTNG Tinghir
TIO Tiouine
TIS Tissa
TTIG Tnine Tigouga, Taroudante
TSY Tnine Yamani
MTOR TORKOZ
TFT Tounfite
TNF Tounfite
TOU Touzarine
YBT Youssef Ben Tachfine
ZAI Zaio
ZER Zerhoun
BMK* BMKM

Mozambique
CNG Changalane
CBTN Chibotane
CHGM Chingoma
LICM Lichinga
LICH Lichinga
MANI Manica
MAPI Mapinhane
LMM Maputo
NPA Nampula
SONG Songo
TET Tete

Namibia
AUSN Aus
WP22 e3183
WP04 e3369
WP05 e3371
WP08 e3372
WP21 e3376
WP02 e3380
WP01 e3381
WP06 e3382
WP20 e3385
KJAB KAMANJAB
RUDU RUNDU
TSUM Tsumeb
I35NA TSUMEB INFRASONIC ARRAY REFERENCE POINT
ARMS Ukamas
WIN Windhoek

Niger
TORD Torodi Ar. Beam
TOA3 Torodi Ar. Site
TOA0 Torodi Ar. Site
TOB1 Torodi Ar. Site
TOA2 Torodi Ar. Site
TOB2 Torodi Ar. Site
TOA1 Torodi Ar. Site
TOB3 Torodi Ar. Site
TOB4 Torodi Ar. Site
TOB5 Torodi Ar. Site
TOC1 Torodi Ar. Site
TOC2 Torodi Ar. Site
TOC3 Torodi Ar. Site
TOC4 Torodi Ar. Site
TOC5 Torodi Ar. Site
TOC6 Torodi Ar. Site
TOC7 Torodi Ar. Site

Rwanda
AST Butare BTR
BTR Butare
KIG Kigali

Senegal
BBTS Babate
BKL Bakel
DAK Dakar
KDS Kedougou
KED* Kedougou KDS
KED Kedougou
KDG Kedougou KED
MMS Matam
MBO M'Bour

Somalia
MOG Mogadiscio

South Africa
Cape Province
AUGR Augrabies
BEW Beaufort West
BLE Bellville
BUFB Buffelsbos
CVN Calvinia
CVNA Calvinia
CGH Cape Good Hope
CTO Cape Town
CASA Carruther's Hill
CER Ceres
ELIM Elim
GRM Grahamstown
GRH Grahamstown
HER Hermanus
KEIM Keimoes
KSD Kokstad
KOMG Komaggas
KROM Kromhout
LTT Louis Trichardt
MDL Mandileni
PSR Paul Sauer Dam
POF Pofadder
PKA Prieska
ROSN Rosenhof
SOE Somerset East
SBO Springbok
SUR Sutherland
TUH Tulbagh
UMT Umtata
UPI Upington
Natal
JOZ Jozini
NWL Newcastle
PTM Pietermaritzburg
PIE Pietermaritzburg
POG Pongola
Orange Free State
BLF Bloemfontein
I47ZA BOSHOF INFRASONIC ARRAY REFERENCE POINT
FRS Fauresmith
KIM Kimberley
PKR Le Roux Dam
PRYS Parys
PRY Parys
SEK Senekal
VIR Virginia
WKM Welkom
ALBD Alberton, Johannesburg
BNON Benoni
BOSA Boshof
HVD Gariep Dam
GRAN Grantham
HMSA Hans M'sky res
HRAO HartRAO
KLOF Kloof
MSNA Messina
OBSV Observatory
OKP Okiep
PHW Phalaborwa
POGA Pongola
RDWR Rand Water
DRD Roodepoort, Johannesburg
TLEK Tau Lekoa
UNJO University of Johannesburg
WDLM Western Deep Levels Mine
Transvaal
BFT Belfast (SA)
BFSD Buffelsfontein
BFS Buffelsfontein
CGY Coligny
CRWM Crown Mines
ERPM east rand property ines
ERS Ellisras
EVA Evander
BPI Johannesberg
JOH Johannesburg

Code	Station Name	Other
KSR	Koster	
LEP	Lephalale	
MOAB	Moab Khotsong	
MOPA	Mopani	
PRE	Pretoria	
SWZ	Schweizer	
SLR	Silverton	
TAUL	Tau Lekoa	
Spain		
ETRV	Los Montesinos	
PVLZ	Pen@16o@15n de Ve@15lez	
Sudan		
JAWL	J.Aulia	
MRKH	Merkhyat	
NYA	Nyala	
SLAT	Slait	
Swaziland		
MAGG	Maguga Dam	
SWL	Swaziland	
SWD	Swaziland	
Togo		
OAUI	Ile-Ife	
LOM	Lome	
Tunisia		
BLIT	Baltah	
BKLT	Bekalta	
BERT	Berda	
AYNT	El Ayoun	
GAF	Gafsa	
GFA	Gafsa	
GHAT	Ghardimaou	
HANT	Hania	
BTHT	Jabal bu Thady	
KCHT	Kechabta	
KEST	Kesra	
I48TN	KESRA INFRASONIC ARRAY REFERENCE POINT	
KRIT	Krib	
MART	Mareth	
MEDT	Meda	
MBZ	Menzel Bouzelfa	
OAR	Oum El Arais	
SBS	Sidi-Bou-Said	
SGNT	Sidi Gnaou	
SYA	Sidi Yaiche	
TAMR	Tamra	
TATN	Tataouine	
THTN	Thala	
THA	Thala	
TROT	Trozza	
TUN	Tunis	
ZGN	Zaghouan	
Uganda		
ENT	Entebbe	
HOI	Hoima	
KIL	Kilembe	
MBAR	Mbarara	
United Republic of Tanzania		
Tanzania		
AICH	Aicho	
ARTT	Arusha	
ARSH	Arusha	
BBAT	Babati	
BASH	Bashay	
BIHA	Biharamulo	
MKRE	Bukene	
BKBA	Bukoba	
DOD	Dodoma	
DODM	Dodoma	
DODT	Dodoma, Tanzania	
DONB	Dongobesh	
ENDA	Endulen Rd	
GEIT	Geita	
GIDA	Gidamilanda	
IRIN	Iringa	
ITKT	Itaka	
ITBT	Itumba	
HAMA	Kahama	
OSIN	Kakessio	
KRTU	Karatu	
KETU	Ketumbeine	
KIBA	Kibaya	
KGMA	Kigoma	
KIOM	Kiomboi	
KOND	Kondoa	
KYLA	Kyela	
LAEL	Laela	
MALJ	Lake Magadi	
MAUS	Longido	
MAFI	Mafinga	
MGRA	Magara	
MAJI	Maji Moto Rd	
MAKM	Makambako	
LOSS	Makongolosi	
KWSI	Makuyuni	
MAKS	Makuyuni S	
MAN2	Manyara 2	
COFF	Manyatta Coffee Estate	
MANYT	Manyoni	
MKAO	Maswa Reserve	
MBAT	Mbeya	
MBUL	Mbulu	
MGOR	Morogoro	
MOSH	Moshi	
PNDA	Mpanda	
LGDO	Mt Longido	
MLBA	Muleba	
MIKU	Namanyere	
NJOM	Njombe	
PDHT	Panda Hill	
QARU	Seremai	
MWSR	Sibiti River	
SINGT	Singida	
SONE	Songea	
SUMB	Sumbawanga	
SIMG	Tanzanite One Mining	
TREE	Tree Lodge	
TDMT	Tunduma	
TUND	Tunduma	
UVZA	Uvinza	
WINO	Wino	
Zambia		
BHA	Broken Hill	
CHMZ	Choma	
IKZ	Isoka	
ITZ	Itezhi-Tezhi	
KSMZ	Kasama	
KMZ	Kasempa	
KTWE	Kitwe	
LUS	Lusaka	
LSZ	Lusaka	
MZZ	Mansa	
MONG	Mongu	
PTZ	Petauke	
Zimbabwe		
BLWY	Bulawayo	
BUL	Bulawayo	
CHIPN	CHIPINGE	
CIR	Chiredzi	
HARE	Harare	
HWZ	Hwange	
KRB	Kariba Dam	
KRR	Karoi	
KRI	Karoi	
MATP	Matopo	
MTD	Mount Darwin	
MUZ	Mutare	
ANTARCTICA		
Antarctica		
ELIB	Princess Elisabeth base, Queen Maud Land, Antarctica	
SPA	South Pole	
QSPA	South Pole Quiet Zone Earth Science Observatory	
Antarctic Peninsula		
AIA	Argentine Island	
ESPZ	Base Esperanza	
GGV	Gabriel Gonzalez Videla	
ANC	Marguerite Bay	
OHC	O'Higgins	
PMSA	Palmer Station	
SMAI	San Martin Antarctic Base	
Coats Land		
BELA	Belgrano 2	
HBA	Halley Bay	
Dronning Maud Land		
ABOA	Aboa	
I27DE	GEORG VON NEUMAYER INFRASONIC ARRAY REFERENCE POINT	
MAIT	Maitri	
VNA	Neumayer	
VNA3	Neumayer Olymp	
VNA1	Neumayer--Station	
VNA2	Neumayer--Watzmann	
NVL	N'lazarevskaya	
SNA	Sanae	
SNAA	Sanae	
SYO	Syowa Base	
TROLL	Troll, Antartica	
East Antarctica		
CCD	Concordia, Antarctica	
Enderby Land		
CASY	Casey	
King Edward VII Land		
LAA	Little America	
RMA	Rockefeller Mts	
Mac Robertson Land		
MAW	Mawson	
Marie Byrd Land		
BYR	Byrd	
BSA	Byrd (S.R.I.)	BY1
BYA	Byrd--Stanford Research Institute	
BY2	Byrd--Stanford Research Institute	
BY3	Byrd--Stanford Research Institute	
BY1	Byrd--Stanford Research Institute	
Queen Mary Land		
MIR	Mirnyy	
OBA	Oasis-Bungera	
South Orkney Islands		
ORCD	Orcadas	
SGY	Signy Island	
South Shetland Islands		
AAS	Arctowski Station	
DEC	Deception Island	
JUBA	Jubany	
PED	Pedro Cerda	
SEJ	Sejong Station	
Terre Adelie		
DRV	Dumont d'Urville	
TAA	Terre Adelie	
Victoria Land		
HLL	Cape Hallett	
MCM	McMurdo Sound	
SBA	Scott Base	
TNV	Terranova Bay	
VNDA	Vanda	
VND	Vanda	
I55US	WINDLESS BIGHT INFRASONIC ARRAY REFERENCE POINT	
Wilkes Land		
CSY	Casey Station	
WIL	Wilkes	
ASIA		
Afghanistan		
HRA	Herat	
KBL	Kabul	
KAAO	Kabul (SRO)	KBL
KBU	Kabul University	
Armenia		
ALGS	Alagyaz	
AMBZ	Amberd	
AKSZ	Araks	
ARRZ	Ararat	
ARTS	Artic	
ARUZ	Aruch	
BVRS	Bavra	
BAW	Bavra	
CKLZ	Chkalov	
DARS	Darpas	
EGVZ	Egvard	
GNI	Garni	
GOGS	Gogaran	
GRS	Goris	
TUNS	Gyulagarak	
GMRZ	Gyumri	
HDR	Hadrut	
MOLS	Halavar	
AIDS	Halavar	
HARI	Harich	
HNAZ	Hnaberd	
IDJZ	Idjevan	
ISKY	Isaakyan	
DZR	Jermuk	
KDR	Kadzharan	
KAMZ	Kamo	
KAPZ	Kaputan	
KKRS	Karmrakar	
KRMZ	Karmrakar	
KATS	Katnaghbyur	
NB2S	Katnajur	
KETS	Keti	
XYB	Khnkoyan	
KIRO	Kirovokan	
COLK	Krashen	
LEN	Leninakan	
LMTZ	Lermontov	
LERZ	Lernakert	
LRNS	Lernantsk	
LYES	Lernapar	
LERS	Lernavan	
MTKZ	Martakert	
MTNZ	Martuni	
MGRZ	Megri	
MCRS	Metsamor	
METS	Metsamor	
METK	Mets Parni	
NRKZ	NAREK	
NARZ	Nor Artik	
SARS	Nor Kachakap	
NPPZ	NPP	
PAAR	P'arak'ar	
SRRS	Sarahart	
SATK	Sarapat	
SHNS	Shenavan	
KMLS	Shenavan	
SUSZ	Shushi	
SPZA	Spitak	
SPIZ	Spitak	
STE	Stepanavan	
ST1S	Stepanavan 1	
ST2S	Stepanavan 2	
ST7	Stepanavan 7	
STEZ	Stepenevan	
TCHZ	Tchakhmakh	
TORS	Torosgyugh	
TSOZ	Tsokhamarg	
KYB	Urasar	
VANZ	Vanadzor	
VNNZ	Vanand	
VRNZ	Vardanashen	
VADZ	Vardenis	
VRD	Vardenis	
XTNZ	Xhotanan	
ERE	Yerevan	
STKZ		
Azerbaijan		
AGDM	Agdam	
ATGJ	Altiaghaj	
ASTR	Astara	
ALIB	Äli-Bayramli	
BRDA	Ba@14rda@14	
BAK	Baki	
BAU	Ballabur	
BLQ	Beylaqan	
GLBA	Ca@14lilabad	
DZB	Cabrayil	
ZHI	Cilov Adasi	
QBL	Gabala	
GALA	Gala	
GANJ	Ganja	
KRV	Ganja	
GDB	GEDABAY	
GOBA	Gobu	
HYR	Heyderabad	
ISM	Ismayilli	
IML	Ismayilli	
ISL	Ismayilll	
KBJ	Kelbejer	
XNQ	Khinaliq	
KDMR	Kurdemir	
LNK	Lankaran	
LKRN	Lenkeran, Azerbaijan	
LRK	Lerik	
LKB	Lokbatan	
MGC	Mingacevir	
MNGR	Mingechevir, Azerbaijan	
NAX	Nakhchivan	
NDR	Nardaran	
NAK	Naxcivan	
ORD	Ordubad	
PQL	Pirkuli	
PRLS	Pirkuli	
QZX	Qazax, Azerbaijan	
GBS	Qobustan	
QRD	Qoradiz	
QUB	Quba	
KUB	Quba	
QUBA	Quba, Azerbaijan	
QSAR	Qusar	
SAAT	Saatly	
SHKI	Saki	
SHE	Samaxi	
SBZ	Shahbuz	
SEKA	Sheki	
SIZA	Siya@14za@14n	
SMGA	Sumqayit	
YRD	Yardimli	
ZKTA	Zakatala	
ZKT	Zaqatala	
ZRD	Zardab	
Bahrain		
BEE	Al Areen	
BBU	Al Budayyi	
BRF	Ar Rifa	
BJA	Jaww	
BMU	Muharraq	
Bangladesh		
BRDH	Bariadhala	
CHT	Chittagong	
China		
Beijing		
BJT	Baijiatuau	
PEK	Beijing	BJI
BJI	Beijing	
BJI2	Beijing	
KWNG	Kwanting	
Fujian		
ZZJH	Jiuhuzhen	
QZN	Quanzhou	QZH
QZH	Quanzhou	
Gansu		
CYEH	Changyeh	
GTA	Gaotai	
LZH	Lanzhou	
LAN	Lanzhou	
LCC	Lanzhou	
TNH	Tianshui	
TUWA	Tungkwan	
WUW	Wuwei	
YUM	Yumen	
Guangdong		
GZH	Guangzhou	
CNT	Guangzhou	GZH
LMC	Lamocks	
Guizhou		
GYA	Guiyang	
KWA	Guiyang	GYA
HXI	Guiyang	GYA
Hainan Dao		
QIZ	Qiongzhong	
Hebei		
TIE	Tianjin	
Heilongjiang		
SUI	Sui-hua	
Hong Kong		
HKCD	Cape D'Aguilar	
CCHK	Cheung Chau	
HKC	Hong Kong Observatory	
HKPS	Hong Kong Po Shan	
HKLI	Keung Shan	
HKLM	Lead Mine Pass	
HKLK	Luk Keng	
HKSL	Siu Lam	
THK	Tsim Bei Tsui	
YHK	Yuen Ng Fan	
Hubei		
ENH	Enshi	
WHN	Wuhan	
WUH	Wuhan	
WUC	Wuhan	WHN
Jiangsu		
NAN	Nanjing	
NJI	Nanjing	NAN
NJ2	Nanjing	
ZSC	Sheshan	
ZSC*	Sheshan	
SSE	Sheshan	
ZKW	Sheshan	
Jilin		
CNH	Changchun	
CN2	Changchun	
HSK	Changchun	
MDJ	Mudanjiang	
Liaoning		
DL2	Dalian	
DAI	Luda	
SNY	Shenyang	
FEN	Shenyang	
YIN	Yingkou	
Macao		
MCO	Taipa Grande	
Nei Monggol Zizhiqu		
BTO	Baotou	
PAO	Baotou	BTO
HIA	Hailar	
HHC	Hu-ho-hao-te	
Ningxia		
YNC	Yinchuan	
Qinghai		
SNN	Xining	
Shaanxi		
TYF	T'ung-yeun Feng	
SPE	Xi'an	XAN
XAN	Xi'an	
SIA	Xi'an	
Shandong		
TSN	Qingdao	
TIA	Tai'an	
Shanxi		
TTC	Datong	
LNF	Linfen	
TIY	Taiyuan	
TYN	Taiyuan	
Sichuan		
PEH	Beibei	
CDU	Chengdu	
CNU	Chengdu	CDU
CD2	Chengdu	
Xinjiang Uygur Zizhiqu		
KSH	Kashi	
WMQ	Urumqi	
WUS	Wushi	
Xizang Zizhiqu		
ST19	Bangong	
ST21A	Bangong Suture	
ST04	Boqe	
XIXI	Borongxiang, Xizang Zizhiqu	
CHUD	Chudeng	
CHUS	Chupsang	

Code	Station Name	Other
NING	Damshung	
ST01	Deqen	
ST27	Doima	
ST18A	East Bangong	
ST06	East Boqe	
ST25	Heping	
JMAG	Jamag	
ST34	Jangngalda	
ST40	Last Nowhere	
LSA	Lhasa	
LHA	Lhasa	
LAZE	Lhatse, Xizang Zizhiqu	
LUMP	Lumpola	
MAZA	Mabujiaxiang, Xizang Zizhiqu	
ST12	Maintong	
MNBU	Menbuxiang, Xizang Zizhiqu	
ST39	Middle Nowhere	
ST38	More Nowhere	
RC14	Nage Dongri, Xizang Zizhiqu	
NAIL	Nailongxiang, Xizang Zizhiqu	
DONG	Nakchu	
ONRN	Ngamring, Xizang Zizhiqu	
NHIM	Nhimo	
ST19A	North Bangong	
ST22	North Bangong Suture	
ST05	North Boqe	
ST02	North Deqen	
ST28	North Doima	
ST29	Northeast Doima	
ST16A	Northeast Serting	
ST25A	North Heping	
ST35	North Jangngalda	
ST12A	North Maintong	
ST37	North of River	
ST11	North Palgon	
ST15	North Pangkog	
ST17	North Serting	
ST20	Northwest Bangong	
ST22A	Northwest Bangong Suture	
ST31	Northwest Twin Lake	
ST08	North Xuru	
ST36	Nowhere	
NASE	Paila	
ST10	Palgon	
PALB	Palub	
TAGA	Panbu Gunsar	
ST14A	Pangkog	
RBSH	Rongbusi, Xizang Zizhiqu	
SAGA	Saga, Xizang Zizhiqu	
SAJA	Sa'gya, Xizang Zizhiqu	
SSAN	Sangsangzhen, Xizang Zizhiqu	
ST16	Serting	
ST17A	South Bangong	
ST21	South Bangong Suture	
ST03	South Boqe	
ST00	South Deqen	
ST26A	South Doima	
ST23	Southeast Heping	
ST24	South Heping	
ST33	South Jangngalda	
SANG2	South of Nakchu	
ST09	South Palgon	
ST14	South Pangkog	
ST15A	South Serting	
ST32	South Thanglha	
ST18	Southwest Bangong	
ST26	Southwest Doima	
ST23A	Southwest Heping	
DINX	Tingri, Xizang Zizhiqu	
ST13A	West Mington	
STW1	West of Nyma	
ST30	West Twin Lake	
ST07	Xuru	
Yunnan		
KMI	Kunming	
KUN	Kunming	KMI
Cyprus		
AKMS	Akamas	
AKMC	Akamas	
AKDN	Akdeniz- K¨–br¨–s	
AKIN	Ak¨–nc¨–lar- K¨–br¨–s	
ALFC	Alefka	
ASGA	Asgata	
ATHAL	Athalassa	
OSC1	CSNet OBS 1	
OSC2	CSNet OBS 4	
EREN	Erenkoy	
FAM	Famagusta	
HSY	Hisarkoy	
KANT	Kantara	
LEF	Lefka	
LFK	Lefkose	
MAGT	Magosa	
MAMC	Mammari	
CSS	Mathiatis	
MVOU	Mavrovouni	
NATA	Nata	
NIC	Nicosia	
CMET	Nicosia	
PPCY	Paphos	
PARAL	Paralimni	
PHNC	Paralimni	
SZAC	Souni	
Democratic People's Republic of Korea		
PYO	Pyongyang	
East Timor		
DLI	Dili	
Georgia		
ABS	Abastumani	
AKH	Akhalkalaki	
BKRG	Bakuriani	
BKR	Bakuriani	
BROG	Barisakho	
BATM	Batumi	
BCHG	Becho	
BGD	Bogdanovka	
BOR	Borzhomi	
BGLV	Boslevi	
BTNK	Botanikuri	
CHAG	Chala	
CHVG	Ch'k'valeri	
CBRG	Chuberi	
DGRG	David-gareji	
DDFL	Dedoflistskaro	
TBLG	Delisi	
DGN	Dgnorisa	
DMNI	Dmanisi	
DMNS	Dmanisi	
DUS	Dusheti	
GEG	Gegechkori	
GTS	Gentvishi	
GOR	Gori	
GUDG	Gudauri	
GUDA	Gudauri	
KZRT	Kazreti	
KZR	Kazreti	
KEH	Kehvi	
KHS	Khaishi	
KHEL	Khelvachauri	
KHVA	Khvani	
KYM	Kumisi	
KMSG	Kumisi	
KRYG	Kurzu	
LGD	Lagodekhi	
MARV	Martvili	
MTIG	Mestia	
MTA	Mtatsminda	
NKK	Na'kalak'ari	
NTS	Ninotsminda	
ONI	Oni	
PNSH	Pansheti	
TI2	Plekhanov	
SBTG	Sabatlo	
SAB	Saberio	
SAMG	Sameba	
SRKG	Sareki	
SRCG	Sart'ichala	
TIF	T'bilisi	
SEAG	Tbilisi Sea	
TKI	Tkibuli	
TKB	Tkibuli	
TNTG	T'onet'i	
TRLG	Trialeti	
ZSH	Tsaishi	
TSE	Tsebel'da	
ZTZ	Tsit'eli Tsqaro	
URAV	Uravi	
VAD	Vardenisi	
VRZG	Vardzia	
VERG	Veris	
VRZT	Veris	
ZUG	Zugdidi	
AMRG		
India		
Andaman Islands		
BAKU	Bakultala	
BTNG	Baratang	
CMBY	CAMPBELL BAY	
CUBY	Cutbertbay	
DGPR	DIGLIPUR	
HVLK	Havelock	
HUTB	Hutbay	
KATL	Kadamtala	
MYB	Mayabunder	
PBA	Port Blair	
SHOA	Shoalbay	
Andhra Pradesh		
ADKI	Addanki	
BNR	BHIKNUR	
CHLP	Challavanipeta	
HYB	Hyderabad	
HYD	Hyderabad	
HYBB	Hyderabad (broadband)	
KLRI	Killari	
KGD	Kothagudem	
NJS	Nagarjunasagar	
NLG	Nalgonda	
PVM	Polavaram	
RCLA	Racherla	
RPR	Rampur	
SKHT	Srikalahasti	
SRSP	Sriramsagar	
SRLM	Srisailam	
URV	Uravakonda	
VJD	Vijayawada	
VIS	Vishakhapatnam	
VISK	Vishakhapatnam	VIS
VIZ	Vizianagram	
WGL	Warangal	
Arunachal Pradesh		
BMI	Bomdila	
INR	Itanagar	
ITAN	ITANAGAR	
KOI	Khonsa	
PASG	PASIGHAT	
TAWA	Tawang	
ZIRO	ZIRO	
Assam		
AGIA	AGIA	
BKOA	Assam	
NGJA	Assam	
BOKO	BOKO	
DHUB	DHUBRI	
DIBR	DIBRUGARH	
GWH	Guwahati	
GUWA	GUWAHATI	
HLGA	Haflong	
HMNA	Hamren	
JHI	Jorhat	
JORH	JORHAT	
KZI	Kaziranga	
LKP	Lekhapani	
PNBI	Panbari	
SILR	SILCHAR	
TZR	Tezpur	
TEZP	TEZPUR	
TOC	Tocklai	
YYI	Yaongyimsen	
Bihar		
BOK	Bokaro	
BOKR	Bokaro	BOK
SHBG	Sahibganj	
Delhi		
AYAN	Aya Nagar	
LDR	Lodi Road	
NDI	New Delhi	
SONA	Sohna	
Goa, Daman and Diu		
DHD	Dharwar	
GOA	Goa	
Gujarat		
BHAC	Bhachau	
BHRD	Bharudia	
BHV	Bhavnagar	
BHJ	Bhuj	
BHUJ	Bhuj	BHJ
DOLA	Dholavira	
GDD	Ghadhada	
JUMK	Jumkunaria	
LAKD	Lakadia	
MAND	Mandvi	
MOTP	Motapaya	
NGOR	Nagor	
NALI	Nalia	
SHIV	Shivlakha	
TAPR	Tapar	
VJP	Vajepar	
Haryana		
BHGR	Bahadurgarh	
KUDL	Kundal	
KKR	Kurukshetra	
ROH	Rohtak	
RTK	Rohtak	
Himachal Pradesh		
BHAR	Bharisain	
CKA	Chakrata	
DLH	Dalhousie	
DHDN	Dehradun	
DHRM	DHARAMSHALA	
GKD	Gaurikund	
GTU	Guttu	
JWA	Jwalamukhi	
JWL	Jwalamukhi	
KLP	Kalpa	
KSLI	Kharsali	
KOTI	Kothi	
KKHI	Kotkhai	
NHN	Nahan	
NNR	Narayananagar	
NURP	Nurpur	
SMI	Simla	
SMLA	Simla	
SDNR	Sundarnagar	
TPVN	Tapovan	
THN	Thein Dam	
CUD	Cuddapah	
UMI	India	
JOSI	Joshimath	
LGTI	Lohaghat	
PONG	Pong	
SLGI	Shiliguri	
VLK	Valmikinagar	
Jammu and Kashmir		
BASC	Basecamp	
JMU	Jammu	
JYP	Jyotipuram	
MUZF	Muzaffarabad	
PTPR	Partapura	
RMBN	Ramban	
SRNI	Srinagar	
UDP	Udhampur	
Karnataka		
GBA	Gauribidanur Array	
KGF	KGF	
MNGI	Mangalore	
Kerala		
PCHI	Peechi	
TRD	Trivandrum	
TRVM	Trivandrum	TRD
Laccadive Islands		
MNCI	Minicoy	
MNCY	Minicoy	
Madhya Pradesh		
BHPL	Bhopal	
BLSP	Bilaspur	
BLPI	Bilaspur	
JBP	Jabalpur	
REW	REWA	
SEH	Sehore	
Maharashtra		
AKL	Akola	
BHAT	Bhatsa	
BOM	Bombay	
GOV	Govalcot	
KARD	Karad	
KAD	Karad	
KOLH	KOLHAPUR, MAHARASTRA	
KNI	Koyna Nagar	
LATR	Latur	
MAH	Mahableshwar	
NGP	Nagpur	
NSIK	Nasik	
POO	Poona	
PUNE	Pune	
STA	Satara	
Manipur		
IMP	Imphal	
MUM	Manipur University	
TORI	Toribari	
UKHR	Ukrul	
Meghalaya		
NGNA	Nongstoin	
SHL	Shillong	
SHIO	Shillong	SHL
TURI	Tura	
TURA	TURA	
DWK		
Mizoram		
AZL	Aizawl	
AIZW	AIZWAL	
SAIH	SAIHA	
Nagaland		
BHDI	Bhandari	
CHKI	Chanki	
KHM	Kohima	
KOHI	KOHIMA	
KGNI	Kongan	
MOKO	MOKOCHONG	
Orissa		
BWNR	Bhubaneshwar	
Punjab		
BNGR	Bahawalnagar	
BHK	Bhakra	
FTMN	Fort Manro	
KTAS	Katas	
MUK	Mukerian	
Rajasthan		
AJM	Ajmer	
AJMR	Ajmer	AJM
JASL	Jaisalmer	
KHET	Khetri	
Sikkim		
GTK	Tadong	
Tamil Nadu		
MDRS	Chennai	
KRKL	Karaikal	
KOD	Kodaikanal	
MDR	Madras	
SALM	Salem	
Tripura		
AGT	Agartala	
BELO	BELONIA	
Uttar Pradesh		
ABI	ADIBADRI	
AGR	Agra	
AGRA	Agra	
ALBI	Allahabad	
ASOR	Ausora	
BRCI	Bahraich	
BISR	Bishrakh	
DDI	Dehra Dun	
DBND	Deoband	
GARI	Garurganga	
JHNI	Jhansi	
KALG	Kalgarh	
MEE	Meerut	
UGON	Onchagaon	
PLMI	Pala-Maneri	
PTH	Pithoragarh	
RTUL	Rataul	
SNP	Sonepat	
VAR	Varanasi	
WIHG	Wadia Institute--Dehra Dun	
West Bengal		
CAL	Calcutta	
HOW	Howrah	
ITKG	Kharagpur	
Indonesia		
Ambon		
AAI	Ambon	
AMO	Ambon	
KRAI	Karang Ratu	
NLAI	Namlea	
Bacan		
LBMI	Labuha	
Bali		
IGBI	Denpasar	
DNP	Denpasar	
INGI	Ingas	
JEHI	Jehsanih	
KHKI	Kahang-Kahang	
KELI	Kelakatan	
NBBI	Negara	
RTBI	Rangdo, Negare	
RANI	Rangndo	
RATI	Rata	
SRBI	Singaraja	
THRI	Tanaharon	
Bangka		
PPBI	Pangkal Pinang	
Bawean		
BWJI	Bawean	
Borneo		
KBKI	Kotabaru	
Buton		
BBSI	Bau Bau	
BSSI	Bau Bau, Buton	
Flores		
EDFI	Ende, Flores	
LBFI	Labuhan Bajo, Sumatra	
MMRI	Maumere	
MHIT	MHIT	
RUTI	Ruteng	
BATI	Baumata	
Irian Jaya		
BAKI	Biak	
FAKI	Fak Fak	
GENI	Genyem	
JAY	Jayapura	
KMPI	Kaimana, Papua	
MWPI	Manokwari, Papua	
MENI	Mendum Tagoi	
MMPI	Merauke	
NABI	Nabire	
RKPI	Ransiki, Papua	
SMPI	Sarmi	
SIJI	Sorong	
SWI	Sorong	
TLE	Tual	
WAMI	Wamena	
YOMI	Yo Moklole	
Jawa		
ABJI	Asem Bagus	
BND	Bandung	
BJII	Banjamegara	
BLJI	Banyuglugur	
BYJI	Banyuwangi	
CNJI	Cibinong	
CGJI	Cibinong	
CLJI	Cilicap	
CMJI	Cimerak	
CISI	Cisompet, Garut	
CBJI	Citeko	
DBJI	Dramaga	
GED	Gedeh	
GRJI	Gresik	
GMJI	Gumukmas	
SCJI	Gunung Srandil	
JAGI	Jajag, Banyuwangi	
DJA	Jakarta	
JMBI	JAMBI	
JCJI	Jatiwangi	
KMMI	Kalianget	
KALI	Kaliastana	
KRKI	Karangkates	
KPJI	Karang Pucung	
KIJ	Kawah Idjen	
KEL	Kelud	
LEM	Lembang	
MLB	Malabar	
MAJ	Maron	
MRP	Merapi	
NGJI	Ngawi	
PCJI	Pacitan	
PWJI	Pagerwojo	
PACI	Pancar Gunung	
PASI	Pasiripis	
PULI	Pulasari	

Code	Station Name	Other
SJI	Sawahan	
SNJI	Sawahan-Nganjuk, JISNET	
SRDI	Scrawed	
SMRI	Semarang	
SMR	Semeru Mts	KEL
SBJI	Serang	
SINI	Singah	
SKJI	Sukabumi	
TBJI	Tambak Boyo	
TNG	Tangerang	
TPJ	Tangkuban Prahu	
TGJI	Tegal	
TRT	Tretes	
UWJI	Ujung Watu	
CTJI	Waduk Cacaban	
UGM	Wanagama	
WOJI	Wonogiri, Jawa	
YOGI	Yogyakarta	
Kalimantan		
BKB	Balikpapan	
BKB2	Balikpapan	
BBKI	Banjar Baru	
MTKI	Muara Teweh, Kalimantan	
PKKI	Palangkaraya	
PLKI	Palangkaraya	
PBKI	Pangkalan Bun	
PTKI	Pontianak	
SMKI	Samarinda	
SGKI	Sangatta, Kalimantan	
STKI	Sintang	
TARAI	Tarakan	
Lombok		
KEDI	Kedomdong	
MTNI	Mataram	
KLNI	Mataram	
Moluccas		
BNDI	Bandanaira	
GAMI	Galela, Maluku	
GTOI	Gorontalo	
MSAI	Masohi	
SANI	Sanana	
SAUI	Saumlaki	
SLKI	Saumlaki	
TNTI	Ternate	
TNE	Ternate	
Nias		
GSI	Gunungsitoli	
Sulawesi		
APSI	Ampana	
BNSI	Bone	
BKSI	Bulukumba	
BUNI	Buntu Taipa	
BTNI	Buton	
KMSI	Cibinong	
KPNG	Kappang	
KAPI	Kappang	
KDI	Kendari	
KKSI	Kolaka, Sulawesi	
LUWI	Luwuk	
PMSI	Majene	
MJSI	Majene	
MKS	Makassar	
MMSI	Mamuju	
MNI	Manado	
MPSI	Mapaga	
MRSI	Marisa	
MSSI	Masamba	
NINI	Niniconang	
PCI	Palu	
SPSI	Sidrap Palu	
SKSI	Soroako, Sulawesi	
TTSI	Tana Toraja	
TANI	Tanete Lipujang	
TOLI2	Tolitoli	
TOLI	Toli-Toli	
Sumatera		
AEKI	Aeknabara	
BSI	Banda Aceh	
BLSI	Bandar Lampung	
BKNI	Bangkinang	
BGI	Bengkulu	
EGSI	Enggano, Bengkulu	
HUTI	Huta Ginjang	
KSI	Kapahiang	
KRJI	Kerinci	
KKD	Korintji-Dempo	
KASI	Kota Agung	
KLI	Kotabumi	
KCSI	Kotacane, Aceh	
LHSI	Lahat	
LASI	Langsa, Aceh	
LARI	Lau Rambong	
LHMI	Lhok Sumawe	
LWLI	Liwa	
MNSI	Mandailing Natal	
MNAI	Manna	
MRPI	Mariponipon	
MARI	Martimbang	
MASI	Maura Aman, Bengkulu	
MDSI	Maura Dua	
MBSI	MBSI	
MED	Medan	
MLSI	Meulaboh, Aceh	
PDSI	Padang	
PPI	Padang Panjang	
PMBI	Palembang	
PCBI	Pancar Batu	
PENI	Pendagan	
PSI	Prapat	
PBSI	Pulau Batu	
PPSI	Pulau Pagai	
PWS	Pulau-Weh	
RBSI	Rajabasa	
RPSI	Rantau Prapat	
RGRI	Rengat	
SISI	Saibi	
SEMI	Semponon	
SIBI	Sibayak Dolok	
SBSI	Sibolga	
SIMI	Simarbalatuk	
SNSI	Sinabang, Aceh	
SLS	Soengei Langka	
SDSI	Sungai Dareh	
TLN	Talang	
TPI	Tanjungpandan	
TPRI	Tanjung Pinang	
TRSI	Tarutung	
TSI	Tuntungan	
UBSI	University, Bengkulu	
TPTI		
KLSI		
Sumba		
BASI	Baing, Sumba	
BMNI	Bima	
DBNI	Kabupaten Dompu	
PLAI	Plampang	
TWSI	Taliwang, Sumbawa	
WBSI	Waikabubak, Sumba	
WSI	Waingapu	
Timor		
BWTI	Baumata	
KUPT	Kupang	KUG
KUP	Kupang	
KUG	Kupang	
SOEI	Soe	
Iran		
QABG	Abgarm-Qazvin	
IAFJ	Afjeh	
AFRZ	Afriz	
HAGD	Aghdareh	
AHBU	AHRAM	
AHWZ	Ahwaz	
IAKL	Akhelmad	
QALM	Alamut, Qazvin	
IALA	Alasht	
ALIA	Aliabad	
ANAR	Anarak	
IAND	Andimeshk	
IANJ	Anjilo	
ASAO	Ashtian	
IAZR	Azarshahr	
IBAF	Bafgh	
IBND	Bandar-abas	
BNDS	Bandar-Abbas	
BSRN	Basiran	
BIRU	Birjand	
BJRD	Bojnu@18rd	
BJMA	Bojnurd	
IBST	Bostanabad	
IBZA	Bozab	
IBRJ	Brojen	
QBNZ	Buin Zahra, Qazvin	
CHBR	Chabahar	
CHTH	Charan	
ICHK	Chekchek	
CHMN	Cheshme madani	
KCHF	Cheshme Sefid, Kermanshah	
IDAH	Dahanechah	
DAMV	Damavand	
IDMV	Damavand	
BDRS	Dareh Seyedi	
SCNT	Darkhovein	
IDSA	Dashabbas	
IDHR	Dehrash	
IDOB	Doab	
IEMG	Emamgholi	
IFTB	Fath-abad	
IFIR	Firoozkooh	
GENO	Geno	
GRMI	Germi	
IGHG	Ghaleghazi	
IGLO	Ghaloghah	
QAM	Ghamsar	
IGAR	Gharneh	
IGZV	Ghazvin	
GHIR	Ghir-Karzin	
GHVR	GHOM	
GNKF	Gonabad	
IHSB	Hasanabad	
IHSH	Hashtrud	
IHRS	Heris	
IHOS	Hoseineyeh	
IR5	Iran Long-Period Array	
IR3	Iran Long-Period Array	
IR1	Iran Long-Period Array	
IR2	Iran Long-Period Array	
IR4	Iran Long-Period Array	
IR6	Iran Long-Period Array	
IR7	Iran Long-Period Array	
IRSH	Iranshahr	
JHBN	Jahan bin	
JHRM	Jahrom	
JRKH	Jarkhoshk	
JSK1	Jask	
IKFM	Kafar-mosalman	
KHNJ	Kahnooj	
KHI	Kakhk	
IKMR	Kamar-syah	
IKRD	Kardeh	
KRSH	Karshahi	
IKAZ	Kazeroun	
KAZ1	Kazerun	
KRBR	Kerman	
KRBA	Kerman	
KER	Kermanshah	
ADB	khalkal	
IKAR	Kharkheh	
SKHZ	Khezeriat	
KHMZ	Khomeyn	
IKIA	Kiasar	
KHSK	Kohestak	
KHGB	Koh Gabri	
HKZM	Kohzaman	
IKLH	Kolahrood	
KLNJ	Kolanjah	
IKOM	Komasi	
TKDS	Koohdasht(Tabas)	
IKOO	Kooshah	
LMD1	Lamerd	
LAR1	LAR	
ILAS	Lasjerd	
ILIN	Lien	
IMAH	Mahabad	
MAHB	Mahabad	
IMHD	Mahdasht	
MAKU	Maku	
IMRD	Marand	
MRVT	Maraveh tapeh	
SMRD	Mared	
MHI	Mashad	MAIO
ISRO	Mashad	
MSH	Mashhad	
MAIO	Mashhad (SRO)	
MUI	Mashhad University	
MSHA	Masjed Soleyman	
IMEH	Mehriz	
BMDN	Meydan	
IMYA	Miami	
MISD	Mianeh	
MNB1	Minab	
IMIN	Minoodasht	
IMND	Minoodasht	
IMOG	Moghan	
SMGT	Moghavemat	
IMON	Monand	
IMOK	Mouk	
NASN	Na'in	
TNSJ	Nastanj	
NGRK	Negar Kerman	
NHDN	Nehbandan	
NIAN	Nian	
NOSH	Now Shahr	
IPAR	Pars	
TPRV	Parvadeh(Tabas)	
IPAY	Payeh	
IPRN	Peran	
IPIR	Pirpir	
IQOM	Qom	
IQHU	Qucahn	
RFDD	Rafsanjan	
IRAM	Ramesheh	
RMKL	Ramhormoz	
IRAZ	Razeghan	
ROKH	ROKH	
SBZV	Sabzevar	
ISAD	Sadrabad	
HSAM	Samen	
SNGE	Sanandaj	
ISRB	Sarab	
SRMB	Sarakhs	
HSRG	Sareghieh	
ISRV	Sarvestan	
SRI	Sefi@18d Ru@18d	
SEF	Sefi@18d Ru@18d	SRI
ISFB	Sefidab	
SMAV	Semnan-Aivanekay	
ISFR	Sfrayin	
SHD	Sha@18hru@18d	
ISHB	Shabestar	
SSHG	Shadegan	
ISHM	Shahmirzad	
SHRT	Shahrakht	
ISHR	Shahran	
SHRO	Shahrood	
SHI	Shiraz	
ISHV	Shirvan	
SHGR	Shooshtar-Gavsavar	
ISHO	Shoshtar	
SHGO	Shushtar	
TABS	Tabas	
TAB	Tabri@18z	
ITBZ	Tabriz	
TGI	Taghi Ghambar	
THR	Tehra@18n	
TEH	Tehran	
THKV	Tehran--Karaj	
ITEG	Tejag	
TVBK	TV Kerman	
IVRN	Varamin	
IVIS	Veis	
IASBS	W01	
YZKH	Yazd	
SZD1	Zahaedan-tmp	
ZHSF	Zahedan	
ZNGN	Zangian	
ZNJK	Zanja@18n	
IZEF	Zefreh	
BZRK	Zereshkeh	
Iraq		
IBDR	Badra	
BHD	Baghdad	
BSR	Basra	
IKRK	Kirkuk	
MSL	Mosul	
NSR	Nassriya	
RTB	Rutbah	
SLY	Sulaymaniyah	
Israel		
ADI	Adamit	
AMZI	Amatzia	
AMAZ	Amatzia	
ARVI	'Arava Valley	
ATR1	Atar 1	
BGIO	Bar Giyyora	
BTI	Bat Shelomo	
GVI	Bet Guvrin	
BLGI	Bet Lehem HaGelilit	
BRNI	Bet Oren	
BSO	Bsor	
DSI	Dead Sea	
DSD2	Dead Sea Dam 2	
DIMI	Dimona	
DOR	Dorot	
DRGI	Dragot	
ENGI	Ein Gedi	
EIL	Elat	
GEM	Giv'at Ha'Em	
GVMR	Giv'at Hamore	
GLH	Golan-Tel Qazir	
HAF	Haifa	
HNTI	Hanita	
HLZ	Helez	
JNI	Jehonathan	
JER	Jerusalem	
JVI	Jordan Valley	
KMTI	Karmit	
KSDI	Kefar Szold	
KERI	Keren	
KSHT	Keshet	
HRSH	Kfar Ka'horesh	
KZIT	Kziot	
NOH	Ma'ale Noah	
MKT	Machtesh Katan	
MNFI	Manof	
MZBI	Masada	
MZDA	Masada	
MSDA	Masada	
MASH	Mash'abbe Sade	
MDBI	Mazsada	
MAMI	Mei-Ami	
ASI	Mount Amassa	
ATZ	Mount Atzmon	
MBH	Mount Berech	
CRI	Mount Carmel	
MGI	Mount Gilboa	
HRFI	Mount Harif	
HRI	Mount Hermon	
MML	Mount Malkishua	
MMLI	Mount Malkishua	
MNRI	Mount Meron	
MRNI	Mount Meron	
MMR	Mount Meron	
MMB4	Mount Meron array	
MMC5	Mount Meron array	
MMA0B	Mount Meron array	
MMA1	Mount Meron array	
MMB1	Mount Meron array	
MMA3	Mount Meron array	
MMC2	Mount Meron array	
MMC6	Mount Meron array	
MMC1	Mount Meron array	
MMC7	Mount Meron array	
MMB2	Mount Meron array	
MMC3	Mount Meron array	
MMC4	Mount Meron array	
MMA2	Mount Meron array	
MMB3	Mount Meron array	
MMA4	Mount Meron array	
MMA0	Mount Meron array	
MMAI	Mount Meron Array Beam Reference Point	
MOI	Mount Montar	
RMN	Mount Ramon	
RMNI	Mount Ramon	
MSM	Mount Sar Shalom	
SDOM	Mount Sodom	
MYI	Mount Yahel	
YASH	Mount Yoash	
MBRI	Mt Berech	
HMDT	Nahal Hemdat	
NATI	Neve Ativ	
OFRI	'Ofer	
PRNI	Paran	
KRMI	Paran Flat	
PARD	Parod	
RTMI	Retamim	
RTMM	Retamin	
REVI	Revivim	
RVVM	Revivim	
SAGI	Saggi Highlands	
SLTI	Sal'it	
SZAF	Shezaf	
SVTA	Shivta	
YTIR	Yattir	
ZNH	Zanoah	
SAF	Zefat	
ZFRI	Zfri	
ZNT	Zur Nathan	
Jammu and Kashmir		
BDGH	Bhadarwah	
BDRWA	Bhadarwah	
DODA	Doda	
GANDO	Gandoh	
KSHWR	Kishtwar	
SRIN	SRINAGAR	
TATRI	Thathri	
THTRI	Thathri	
Japan		
Abashiri		
ABJ	Abashiri	
ABJ2	Abashiri 2	
JTKR	Abashiri--Tokoro	
JAK	Akkeshi	
KNP	Kunneppu	
JMP	Maruseppu	
Aichi		
JAA	Atsumi	
CHTJ	Chita	
JICN	Ichinomiyachiaki	
INU	Inuyama	
MIKN	Mikawa	
NAG	Nagoya	
SYJ	Shimoyama	
JSSY	Shinshiroyabe	
TYH	Toyohashi	
TYNN	Toyone	
Akita		
AKI	Akita	
AKI1	Akita	
AKIJ	Akita 2	
KOMT	Akitakoma	
FUT	Futatsui	
JAH	Hinai	
HJY	Honjo	HJH
HJH	Honjo	
NIB	Nibetsu	
JNTW	Noshirotokiwa	
OGH	Oga	
JOG	Oga	
JOG2	Oga 2	
JOG3	Oga3	
TBS	Tobishima	
TOBT	Tobi-shima	
YOKT	Yokooka	
JYW	Yuwa	
Aomori		
AOM	Aomori	
AOM1	Aomori	
AOMJ	Aomori 2	
AOM3	Aomori 3	
JAHD	Aomorihigashidori	
JARK	Aomorirokkasho	
DAKH	Dake	
GNK	Ganki	
HAC	Hachinohe	
HACJ	Hachinohe 2	
HATH	Hata	
HRD	Hirodai	
JHHS	Hirosakihyakuzawa	
IZMH	Iizume	
JIW	Iwasaki	
KZW	Kaizawa	
JANG	Nango	
JOT	Ohata	
JSI	Shiura	
JSI2	Shiura 2	
TNB	Tanabu	
JTM	Tenmabayashi	
YAY	Yayoi	
Bonin Islands		
JCJ	Chichijima	
CBI	Chichi jima	
CBIJ	Chichi jima	
TTZ	Chichi shima	
HJJ	Hachijo jima	

Code	Station Name	Other
JHJ	Hachijo jima 2	
JHCJ	Hachijojimakashitate	
JHHJ	Haha-jima-NKT	
JHH2	Haha-jima-NKT2	
YUO	Iwo jima	
JKO	Kozu shima	
JHJ2	Mitsune	
MKJ	Miyake jima	
JMY	Miyakejima3	
NJJ	Nii jima	
NJJJ	Nii jima 2	
OGS	Ogasawara	
OSHJ	Oshima	
OSH	Oshima	
JIM	O shima 2	
JIM2	Oshima 3	
TOR	Tori shima	
Chiba		
COJ	Choshi	
CHO	Chosi	
CHOJ	Chosi	
CHO1	Chosi	
ICH	Ichihara	
INB	Inubo	
I30JP	ISUMI INFRASONIC ARRAY REFERENCE POINT	
IWJ	Iwai-Kita	
JKUC	kamogawauchiura	
KTR	Katsuura	
KYS	Kiyosumi	
KIY	Kiyosumi	
TMS	Mera	
MNJ	Mineoka	
JCN	Nagara	
SKU	Sakura	
JSMT	Sammumatsuo	
SMJ	Shimohsa	
TAT	Tateyama	
TYM	Tateyama	
TATJ	Tateyama 2	
TOG	Togane	
YKI	Yokaichiba	
Ehime		
MTY	Matsuyama	
JNA	Nagahama	
NHM	Niihama	
JET	Tanbara	
UWA	Uwa jima	
UWA2	Uwa jima 2	
Fukui		
FUK	Fukui	
FKJD	Fukui	
HKJ	Hokoriku	
IMJ	Imajo	
KAJD	Katsuyama	
KADD	Katsuyama	
MHJ	Mihama	
SGJ	Sugihashi	
TSR	Tsuruga	
TSRJ	Tsuruga	
Fukuoka		
JFA	Akaike	
AKM	Akama	
FKK	Fukuoka	
IZK	Iizuka	
JFI	Itaya	
Fukushima		
AID	Aizu	
FKS	Fukushima	
JFFD	Fukushimafurudono	
JHK	Hiroka	
IWK	Iwaki	
ONAJ	Iwakimizuishiyama	
KNY	Kanayama	
JFK	Kawauchi	
MAKT	Makukawa	
JMST	Minamisoumatochikubo	
ONA	Onahama	
JFT	Otama	
SHR	Shirakawa	
SHRJ	Shirakawa 2	
JFY	Yanaizu	
Gifu		
AMJ	Amo	
GIF	Gifu	
ITD	Itadori	
KTJD	Kamitakara	
JGF	Kuroka	
KHJ	Kushihara	
MZE	Maze	
JGM	Miyama	
JGN	Niukaw	
JAO	Obara	
OHRN	Oohira	
SMJD	Shimonomoto	
SPJN	Shinpukuji	
SRJD	Shirakawa	
SRJ	Sugihara	
TKN	Takane	
TAKN	Takayama	
TKY	Takayama	
TKZ	Takazawasan	
TKJD	Tokuyama	
TKC	Tsukechi	
YKE	Yakedake	
JYTA	Yamagatataniai	
Gumma		
JGK	Kuni	
MAE	Maebashi	
MAEJ	Maebashi 2	
ODSE	Onioshidashi	
Hidaka		
JBT	Biratori	
JBT2	Biratori 2	
ERM	Erimo	
JEM	Erimo	
HIC	Hidaka-Cho	
KMU	Kamikineusu	
MSN	Misono	
MUJ	Mitsuishi	
URA	Urakawa	
URAJ	Urakawa 2	
URA3	Urakawa 3	
JNBK	Urakawa-nobuka	
Hiroshima		
HIR1	Hiroshima	
HIR	Hiroshima	
HIRJ	Hiroshima 2	
JJG	Jouge	
JHM	Kurahashi	
KRE	Kure	
KUT	Kutsugahara	
MKW	Mikawa	
NKR	Nakanohara	
JHS	Saijyo	
SHK	Shiraki	
JHT	Toyohira	
UZT	Uzuto	
Hiyama		
JHY	Hiyama	
IMG	Imagane	
KKJ	Kaminokuni	
OKS	Okushiri	
JOSM	Okushiri--Matsue	
JOR	Okushj	
JSH	Shimam	
JSR	Shiriuchi	
Hokkaido		
HTUJ	Hattaushi	
JSHD	Hidakashinhidaka	
JHST	Hiyamasetana	
HRK	Horoka	
IWN	Iwanai	
SKBJ	Kato	
RUSJ	Misakicho	
TNKJ	Nakagawa	
JOMM	Oshimamatsumae	
JRBN	Rebuntou	
JTHR	Tokachihiroo	
Honshu		
BSO1	Boso 1	
BSO2	Boso 2	
BSO3	Boso 3	
BSO4	Boso 4	
Hyogo		
JAJ	Awaji shima	
JAWN	Awajishima-nagasawa	
HMTD	Hikami	
HIM	Himeji	
IZT	Izumi	
KZT	Kanzaki	
JKS	Kasai	
JKSM	Kasumi	
KOB	Kobe	
KBE	Kobe	
JMT	Mikata	
MZT	Mikazuki	
JMIK	Miki	
OYT	Oya 1	
OYT2	Oya 2	
RKO	Rokko	
SNZ	Senzan	
SUM	Sumoto	
TTOK	Tanto	
TYK	Toyo'oka	
JAJ2	Tsuna	
TNAK	Tsuna	
YZT	Yamasaki	
YST	Yumesaki	
Ibaraki		
JHYU	Hitachinakayamanoue	
JIHU	Itakohorinouchi	
KAK	Kakioka	
KAKJ	Kakioka Outpost	
MIT	Mito	
MRJ	Moriya	
MTJ	Mount Tsukuba	TSK
OKI	Okijuku	
TSK	Tsukuba	
JYT	Yasato	
Iburi		
GENH	Genta-Ana	
HORH	Horominai	
JIAM	Iburiatsuma	
NRMH	Kita-Gairin	
KITH	Kitausu	
KONH	Konpirayama	
MATH	Matsumotoyama	
SRMH	Minami-Gairin	
MITH	Mitoyo	
MRR	Muroran	
MRRJ	Muroran 2	
JNB	Noboribetsu	
OHD	Ohdaira	
SHOH	Showa-Shinzan	
TATH	Tatsuka	
TMR	Tomakomai	
UVO	Usu Kazan Kan	
Ishikari		
JEW	Eniwo	
HSS	Hokkaido University	
JISS	Ishikarishitsubu	
SAP	Sapporo	
Ishikawa		
JJH	Hakui	
JHG	Hegura jima	
HRJ	Horyu	
JKG	Kaga	
KAN	Kanazawa	
KANJ	Kanazawa	
KAN2	Kanazawa 2	
KMJD	Komatsu	
KMD	Komatsu	
JSZ	Suzu	
WAJ	Wa jima	
Iwate		
K06	Arakawa	
K11	Fujikirizawa	
HSH	Hashikami	
HMK	Himekami	
JMK	Ichinoseki	
IMAT	Imadeyama	
K05	Ishipane	
JSZI	Iwateshizukuishi	
KGJ	Kitakami	
K12	Koide	
K04	Kokoji	
K07	Kotohata	
JKEN	Kujiedanarisawa	
JKZ	Kuzumaki	
MIY	Miyako	
MKO	Miyako	
MIYJ	Miyakonagasawa	
MIZ	Mizusawa	
MIW	Mizusawa	MIZ
K08	Monomi-yama	
MRK	Morioka	
MRKJ	Morioka 2	
K01	Nishinai	
OFU	Ofunato	
OFUJ	Ofunato	
JOM	Ohasama	
K09	Ooide	
K10	Oonodaira	
JRG	Rokugo	
SNI	Sanriku	
SAH	Sawauchi	
K03	Shimotochinai	
JTH	Tanohata	
K02	Yamasaki	
KDT	Kodera	
JNIO	Niijimaoohara	
TTO1	TONANKAI O.B.S1	
TTO2	TONANKAI O.B.S2	
TTO3	TONANKAI O.B.S3	
TTO4	TONANKAI O.B.S4	
TTO5	TONANKAI O.B.S5	
Kagawa		
JJS	Sakaide	
TAD	Tadotsu	
TKM	Takamatsu	
Kagoshima		
FURD	Furusato	
GON	Gongen	
HIKD	Hikinohira	
KAG	Kagoshima	
KAGJ	Kagoshima 2	
KV01	Kirishima Volcano	
KITD	Kitadake	
KOID	Koike	
JMTN	Minamitane	
NABD	Nabeyama	
NOJ	Nojiri	
JZO	Okuchi	
KV05	Oonami East	
KV03	Oonami West	
JSJ	Shimokoshiki	
SHRD	Shirahama	
KV12	Sinyu	
JSU	Suzuyama	
KV11	Takachiho West	
JTSR	Tashiro 2	
JYRO	Yoronjima	
YOSD	Yoshimatsu	
YSM	Yoshimatsu	
Kamikawa		
AIB	Aibetsu	
ASAJ	Asahikawa	
ASA	Asahikawa	
JFR	Furan	
JKK2	Kamakawa 2	
JKK	Kamikawa	
JKA	Kamikawa-asahi	
Kanagawa		
KMK	Kamakura	
HRM	Kawasaki	
ASG	Minamiashigara	
MSK	Misaki	
JOD	Odawara	
JOD2	Odawara 2	
OYM	Oyama	
JSGW	Sagamiharawakayanagi	
SRY	Shiroyama	
TKE	Take-yama	
YOK	Yokohama	
JYO	Yokosk	
YSK	Yokosuka	
Kochi		
AOU	Aou	
ASZ	Ashizuri	
IHR	Ishihara	
KOC	Kochi	
JKHR	Kochiharuno	
JKU	Kubokawa	
JMN	Monobe	
MRT	Murotomisaki	
MRMJ	Muroto Misaki	
MRT2	Murotomisaki 2	
SHM	Shimizu	
JTO	Tosashimizu	
URS	Ugurusu	
UMJ	Umaji	
WMY	Wakamiya	
Kumamoto		
ASO	Aso	
ASJ	Aso san	
JBEP	Beppuamama	
JHD	Hondo	
HONK	Hondo	
JIU	Izumi	
JIU2	Izumi 2	
JIU3	Izumi3	
KISK	Kishima-dake	
KUM	Kumamoto	
KUMJ	Kumamoto 2	
MAKK	Maki	
SUNK	Sunasenri	
TAKK	Taka-dake	
JTA	Tamana	
Kushiro		
AKK	Akkeshi	
JAR	Ashorobuto	
KUSJ	Kushiro	
KSUJ	Kushiro	KUSJ
KUS	Kushiro	
JKHN	Kushirohamanaka	
JOB	Onbets	
TES	Teshikaga	
Kyoto		
KMM	Kamigamo	
KGMK	Kamigamo	
KHK	Keihoku	
KYO	Kyoto	
MAI	Maizuru	
MZH	Maizuru	
MZH2	Maizuru 2	
JFM	Mihama	
MYD	Miyazu	
SZG	Shizugawa	
TNJ	Tannan	
UJI	Uji	
JWT	Wachi	
JKY	Yasaka	
Marcus Island		
MCS	Marcus Island	
MCSJ	Minami-tori-shima	
Mie		
GOZ	Gozaisho	
GZS	Gozaisho	GOZ
INA	Iinan	
ISE	Ise	
JIE	Ise	
IWO	Iwaosan	
KAM	Kameyama	
KMYN	Kameyama	
JKN	Kiinagashima	
JKN2	Miekihoku	
JMMH	Miemihama	
OWA	Owase	
TSU	Tsu	
TSU1	Tsu	
TSUJ	Tsu 2	
UGK	Ugakei	
Miyagi		
AOB	Aobayama	
ISN	Ishinomaki	
JIKH	Ishinomakikobuchihama	
KMF	Kamafusa	
KWT	Kawatabi	
JKMT	Kesennumamotoyoshi	
KSN	Kinkasan	
JMM	Marumori	
JOFO	Osakifurukawaosaki	
JIO	Ouri	
SEN	Sendai	
TUY	Tsuyama	
Miyazaki		
JMH	Hososhima	
JHHC	Hyugahichiya	
KV02	Kamimonzen	
KV06	Karakunidake	
JKJ	Kijyo	
JKIT	Kitakata	
KV04	Kurino-dake	
JJK	Kushima	
JNAR	Kushima--Naru	
MYZ	Miyazaki	
MYZ2	Miyazaki 2	
JNKG	Nichinankitagou	
NOB	Nobeoka	
KV09	Okamoto-Ura	
JTZ	Takazaki	
JTSN	Tsuno	
KV91	Ura	
Nagano		
AVOE	Asama Observatory	
ASM	Asama Yama	
GPY	Gippayama	
HSJ	Hoshina	
HTK	Hotokeiwa	
HZA	Huzimizaka	
IID	Iida	
IJDJ	Iida	IIDJ
IIDJ	Iida	
IKJ	Ikusaka	
KRJ	Kamimuroga	
KAZ	Karuizawa	
KRZ	Karuizawa	KAZ
KSJ	Kashima	
KMGE	Kuromamegawa	
MJ00	Matshushiro Site	
MJA0	Matsu Arr-Jizo	
MJB3	Matsu-Daira	
MJB8	Matsu-Inaba	
MJB6	Matsu-Irikaruiz	
MJA4	Matsu-Jizotouge	
MTMJ	Matsumoto	
MTM	Matsumoto	
MJB4	Matsu-Nakagumi	
MJA2	Matsu-Nakaone	
MAJO	Matsushiro	
MAT	Matsushiro	
MJAR	Matsushiro Array Beam Reference Point	
MAT0	Matsushiro Array Site 0	
MJ01	Matsushiro Array Site 1	
MJ02	Matsushiro Array Site 2	
MJ03	Matsushiro Array Site 4	
MJ04	Matsushiro Array Site 4	
MJ05	Matsushiro Array Site 5	
MJ06	Matsushiro Array Site 6	
MJA3	Matsu-Soehiyama	
MJB2	Matsu-Sugadaira	
MJB1	Matsu-Takimoto	
MJA1	Matsu-Toyosaka	
MJB9	Matsu-Tunnel	
MJB7	Matsu-Wadaira	
MJB5	Matsu-Yatsubo	
NGN	Nagano	
NGJ	Na-gawa	
NNJ	Nakano	
NSW	Nakanosawa	
JNG	Nsakai	
OMJ	Ohmine	
OIW	Oiwake	
OOS	Ooshika	
SDJ	Sanada	
STRE	Sannotorii	
SSZ	Sekisonzan	
SHZE	Shinhuzimiza	
SSJ	Shinshu-shinm'i	
JNY	Yasuok	
Nagasaki		
CJA	Chijiwa	
FKJ	Fukue	
JFU	Fukue jima 2	
JII	Iki	
IZUJ	Izuhara	
IZU	Izuhara	
IZU2	Izuhara 2	
NGS	Nagasaki	
NGSJ	Nagasakinomozaki	
SWAJ	Obama	
SHV	Shimbara	
TOM	Tomie	
JTU	Tsushima	
JTSM	Tsushimamitsushima	
UNZ	Unzen dake	
JUR	Ureshino	
Nara		
HBR	Haibara	
JHE	Heguri	
NAR	Nara	
JNTK	Naratenkawa	
SRT	Sarutani	
YAG	Yagi	
Nemuro		
JNK	Nakash	
NEM	Nemuro	
NEM2	Nemuro 2	
NMR	Nemuro--Hokkaido	

	University	
JNSB	Nemuroshibetsu	
JRA	Rausu	
Niigata		
AIK	Aikawa	
JAW	Awa shima	
ITGE	Itoigawa	
JIZZ	Izumozaki	
KZJ	Kashiwa-zaki	
KZK	Kashiwa-zaki	
JJN	Nakama	
NII	Niigata	
NIIJ	Niigata 2	
NOUE	Nou	
JSD	Sado	
JNS	Sasagawa	
SBH	Shibata	
TKD	Takada	
TKJ	Takada	
YHKE	Yahiko	
YNT	Yunotani	
YZU	Yuzawa	
Oita		
BEP	Beppu	
JKI	Kunimi	
JNU	Nakatsue	
OIT	Oita	
OIT2	Oita 2	
JSKE	Saikikamae	
JUS	Usuki	
Okayama		
JAD	Aida	
OKA	Okayama	
OKA1	Okayama	
OKA2	Okayama 2	
Osaka		
ABU	Abuyama	
KAJ	Kashiwara	
KTNK	Katano	
MYO	Myokensan	
OSA	Osaka	
OSK	Osaka	
TKU	Takayasuyama	OSK
O shima		
ESH	Esan	
HAK	Hakodate	
HAKJ	Hakodate 2	
JKB	Kayabe	
MOR	Mori	
JYM	Yakumo	
JYM2	Yakumo 2	
Rumoi		
HAB	Haboro	
RMJ	Rumoi	
JSS	Shosan	
TOI	Tomamai	
JYG	Yagishiri	
Ryukyu Islands		
JAGN	Aguni-jima	
JAMN	Amaminishikomi	
JAM	Amami Oshima	
JOGS	Gusukube	
HATJ	Hateruma jima	
JIH	Iheya	
JIKM	Ikemajima	
JIRB	Irabujima	
IRI	Irimote jima	
IRIF	Iriomote-Funauki	
ISI	Ishigaki jima	
JIJ	Ishigaki jima 2	
JISG	Ishigakijimahirakubo	
ISHJ	Ishigaki Ryukyu Islands	
JZK	Kikaishima	
JKDJ	Kitadaitoujima	
JKC	Kuchinoerabu	
KMJ	Kume jima	
JKE	Kume jima 2	
JOW	Kunigami	
JKRS	Kuro-shima	
MWS	Mawashi	
JMZ	Minamidaito 2	
MVI	Minamidaito jima	
JMJ	Miyako jima 2	
JMJ2	Miyako jima3	
MYK	Miyako zima	
NGO1	Nago	
NGO	Nago	
NAGO	Nago	
JNTH	Nagotoyohara	
NAH1	Naha	
NAH	Naha	
JNN	Nakanoshima	
NKE	Nake	
NZJ	Naze	
JOKE	Okinoerabujima	
JTAJ	Takarajima	
JJT	Tamagu	
JJT2	Tamagusuku 2	
JJT3	Tamagusuku3	
TAJ	Tanegashima	
TAJ2	Tanegashima 2	
JTN	Tanegashima 3	
JTJ	Tarama	
JTK	Tokunoshima	
YKS	Yaku shima	
JYAK	Yakushimahirauchi	
YOJ	Yonaguni jima	
JYJ	Yonaguni jima 2	
JYNG	Yonagunijimakubura	
Saga		
SAG	Saga	
Saitama		
CHJJ	Chichibu	
CHJ	Chichibu	
DDR	Dodaira	
JHU	Hanno	
IWT	Iwatsuki	
KOM	Komaba	
KMG	Kumagaya	
JRY	Ryogami san	
Shiga		
AM1	Amasugawa 1	
AM2	Amasugawa 2	
AZJ	Azai	
BHOK	Bomura	
JEG	Eigenji	
HIK	Hikone	
IBU	Ibuki Yama	
KNJD	Kanaihara	
KWJ	Kawai	
OHM	Omihachiman	
ORJ	Oura	
JTG	Taga	
Shimane		
FUB	Fube	
JGT	Gotsu	
HMD	Hamada	
JHIK	Hikimi	
JNM	Ikuma	
JISK	Izumosakaura	
JMD	Masuda	
MTS	Matsue	
JJO	Oda	
JOI	OKI	
SAI	Saigo	
JGT2	ShimaneMisato	
Shiribeshi		
AHS	Asahigawa	
NKS	Nakayama Pass	
JSK	Shakotan	
SUT1	Suttsu	
SUT	Suttsu	
Shizuoka		
AJI	Ajiro2	
JFNN	Fujinakano	
GTN	Gotemba	
JHMK	Hamakita	
HMM	Hamamatsu	
HMMJ	Hamamatsu 2	
HDAN	Heda	
HEDN	Heda	
HRG	Hirogawara	
ITO	Ito	
JHTM	Izuhatsuma	
JIZS	Izushimoda	
KGW	Kakegawa	
JKKG	Kakegawa	
JKKS	Kakegawashinomba	
KTJ	Kamata	
KTJJ	Kamata 2	
KTJ3	Kamata3	
KWZ	Kawazu	
KOY	Koyama	
MIZN	Minamiizu	
MSKJ	Misakubo	
MIS	Mishima	
MZI	Mizumiiro	
NGT	Nagatsuro	
NRME	Naramoto	
NGHE	Neginohata	
NRY	Nirayama	
NSI	Nishiizu	
NUM	Numazu	
OKB	Okabe	
OKN	Okuno	
OMA	Omae zaki	
JSG	Sagara	
SGRN	Sagara	
SGMN	Shimogamo	
SMK	Shimokamo	
SHZ	Shizuoka	
SHZJ	Shizuoka 2	
SHZ3	Shizuoka 3	
SUS	Susaki	
TNRJ	Tenryu	
TK01	Tokai 1	
TK02	Tokai 2	
TK03	Tokai 3	
TK04	Tokai 4	
YOS	Yoshiwara	
JYZW	Yoshizawa	
Sorachi		
JAB	Ashibetsu	
JHR	Hokuryu	
Soya		
JWK2	Keihoku	
JRR	Rishiri	
JSE	Soyaes	
JWK	Wakkake-Misaki	
WAKJ	Wakkanai	
WAK	Wakkanai	
Tochigi		
JAG	Ashikaga	
JHO	Hitachi	
KKGU	Kamikuga	
JKT	Katashina	
KBH	Kobugahara	
MGJ	Motegi	
OHJ	Ohira	
JSB	Shiboa	
UTS	Utsunomiya	
UTSU	Utsunomiya	
YMZ	Yamizo	
YMZU	Yamizo	
Tokachi		
JCH	Churui	
HOO	Hiroo	
HOOJ	Hiroo 2	
MYR	Moyori	
OBI	Obihiro	
URH	Urahoro	
Tokushima		
JAI	Aioi	
INMK	Ichinomiya	
ISIK	Ishii	
KMNK	Kaminaka	
KCY	Kuchiyama	
JMAF	Mimaanabuki	
TKS	Tokushima	
TKSJ	Tokushima 2	
TSS	Tsurugi yama	
WKJ	Wajiki	
Tokyo		
JAOM	Aogashimamukaizawa	
HHR	Hinohara	
HGJ	Hongo	
HNG	Hongo	
IIS	IISEE	
JMKN	Mikurajimanishikawa	
MTK	Mitaka	
JSKK	Shikinejimakita	
SIN	Shinagawa	
TOK	Tokyo	
JTHY	Toshimahigashiyama	
Tottori		
CZT	Chizu	
FOTD	Funaoka	
JKR	Kurayoshi	
KYTD	Kurayoshi	
SAA	Sakai	
SNTD	Shikano	
TTT	Tottori	
TOTJ	Tottori	
TOT	Tottori	
YON	Yonago	
YONJ	Yonago 2	
Toyama		
HKI	Fushiki	
KYJ	Kuroyon	
NRJ	Nirehara	
TOY	Toyama	
JTT	Ttatey	
Wakayama		
ARD	Arida	
HDK	Hidaka	
HNMJ	Hino-misaki	
KKW	Kainokawa	
KNJ	Kinomoto	KMT
KMT	Kinomoto	
KISE	Kishinomiya	
JWY	Kouya	
JWZ	Kozaga	
KMN	Kumano	
JWM	Minabe	
MTGE	Mitogawa	
OIS	Oishiyama	
OIA	Oishiyama (A)	
OIB	Oishiyama (B)	
OIC	Oishiyama (C)	
SKW	Shichikawa	
SHJ	Shiono misaki	
JTNC	Tanabenakahechi	
TDR	Todoroki	
WKU	Wakaura	
WKME	Wakayama	
WKY	Wakayama	
WKYJ	Wakayama 2	
JWKM	Wakayamakushimoto	
YGI	Yagi	
YAS	Yuasa	
Yamagata		
ATM	Atsumi	
JYA	Atsumi	
HRTT	Hiratsu	
JYK	Kaneyama	
JOU	Okura	
SAK	Sakata	
SKH	Sakata 2	
JYS	Shirataka	
JTB	Tobi-shima	
YAMJ	Yamagata	
YAM	Yamagata	
JYYZ	Yamagatayuza	
JYAR	Yonezawaarcadia	
Yamaguchi		
JHGM	Hagimishima	
JKD	Kudamatsu	
SHN1	Shimonoseki	
SHNJ	Shimonoseki 2	
SHN	Shimonoseki 3	
JTY	Toyota	
Yamanashi		
ENZ	Enzan	
FUJ	Fuji-kawa	
FUN	Funatsu	
HOKE	Hokigiyama	
ICY	Ichiyama	
KOF	Kofu	
KFU	Kofu	
KGN	Komagane	
JIZ	Nakaizu	
OKY	Okuyama	
OOM	Omiya	
JYN	Shimob	
SBJ	Shimobe	
JNT	Takato	
UMJE	Umejima	
Jordan		
AJLJ	Ajlon	
ARTJ	Al Aritein	
DRHJ	Al-Direh	
QRNJ	Al-Qirein	
SHBJ	Al Shahba	
HSUJ	Al Zarqa	
ANJJ	Anjarah	
AQBJ	Aqaba	
ASHJ	Ashqof	
BYRJ	Bayer	
BURJ	Burma	
QTBJ	Casr Tuba	CSTJ
CSTJ	Casr Tuba	
DHLJ	Dahal	
JDRJ	Daraweish	JRDJ
JRDJ	Daraweish	
LISJ	El Lisan	
MASJ	El Maslubiya	
RUMJ	Er Rumman	
GHAJ	Ghor Haditha	
GHZJ	Ghuzeima	
HLBJ	Hallabat	
HMRJ	Hamra	
HMTJ	Hamta	
HSHJ	Hashim	
HITJ	Hittiya	
ASF	Jabal al Asfar	
JARJ	Jarash	
RSHJ	J Risha	JRSJ
JRSJ	J Risha	
KFNJ	Kafrein	
KSHJ	Kshj	
HSNJ	Maan	
MKRJ	Makawir	
MRSJ	Marsad	
MDSJ	Mudaysisat	
MDRJ	Muduarah	
MUDJ	Muduarah	
JSOJ	Natural Resources Authority	
QTFJ	Qatafi	
QTRJ	Qatrana	
QUTJ	Qutrana	
NAQJ	Ras En-Naqb	
RUWJ	Ruweisid	
SHMJ	Saham	
SALJ	Salt	
SHWJ	Shawbak	
SULJ	Sultana	
SMAJ	Sumiya	
SWQJ	Swaqa	
UNJ	University of Jordan, Amman	
WMSJ	Wadi Mousa	
WALJ	Wala	
QRHJ		
GLFJ		
KARJ		
	Karel'skaya	
VALR	Valaam	
	Kazakhstan	
ABKAR	Akbulak array	
AB08	Akbulak array site	
AB01	Akbulak array site	
AB09	Akbulak array site	
AB06	Akbulak array site	
AB31	Akbulak array site	
AB04	Akbulak array site	
AB02	Akbulak array site	
AB03	Akbulak array site	
AB07	Akbulak array site	
AB05	Akbulak array site	
AKB	Aktobe	
AKTK	Aktyubinsk	
AKTO	Aktyubinsk	
I31KZ	AKTYUBINSK INFRASONIC ARRAY REFERENCE POINT	
AA1	Alma-Ata	AAA
AAA	Alma-Ata	
KNDC	Almaty	
ARXS	Arharly	
BTLS	Baital	
MNBS	Baschi	
BAYK	Bayan-Aul	
BRZS	Berezniki	
BMNS	Besmoynak	
BRLS	Borolday	
BRVK	Borovoye	
BVAR	Borovoye Array Beam Reference Point	
BVA0	Borovoye Array Site A0	
BVA1	Borovoye Array Site A1	
BVA2	Borovoye Array Site A2	
BVA3	Borovoye Array Site A3	
BVA4	Borovoye Array Site A4	
BVB5	Borovoye Array Site B5	
BVB6	Borovoye Array Site B6	
BVB7	Borovoye Array Site B7	
BVB8	Borovoye Array Site B8	
BVB9	Borovoye Array Site B9	
BUGS	Bugetsay	
CHL	Chilik	
TCH	Chimkent	CHM
CHM	Chimkent	
CHK5	Chkalova array site	
CHK4	Chkalova array site	
CHK6	Chkalova array site	
CHK9	Chkalova array site	
CHK7	Chkalova array site	
CHK8	Chkalova array site	
CHKZ	Chkalovo	
CHMS	Chumysh	
CHKK	Chushkaly	
DGS	Degeres	
FAB	Fabrichnaya	
ILI	Ili	
IUG	Iuzhnay	
IZV	Izvestkoviy	
JBG	Jabagly	
DJR	Jarkent	
KAPS	Kapalarasan	
KRBS	Karabastau	
KKAR	Karatay Array	
KK03	Karatay Array site	
KK02	Karatay Array site	
KK09	Karatay Array site	
KK31	Karatay Array site	
KK05	Karatay Array site	
KK04	Karatay Array site	
KK08	Karatay Array site	
KK06	Karatay Array site	
KK01	Karatay Array site	
KK07	Karatay Array site	
KTBS	Karatobe	
KKL	Karkaralinsk	
KST	Kastek	
KTMS	Ketmen	
KPKS	Kokpek	
KOSH	Koshkarbay	
KOTS	Kotyrbulak	
KRS	Krasnogorka	
KURS	Kuram	
KURK	Kurchatov	
KURBB	Kurchatov Array	
KUR01	Kurchatov Array Site 1	
KUR10	Kurchatov Array Site 10	
KUR11	Kurchatov Array Site 11	
KUR12	Kurchatov Array Site 12	
KUR13	Kurchatov Array Site 13	
KUR14	Kurchatov Array Site 14	
KUR15	Kurchatov Array Site 15	
KUR16	Kurchatov Array Site 16	
KUR17	Kurchatov Array Site 17	
KUR18	Kurchatov Array Site 18	
KUR19	Kurchatov Array Site 19	
KUR02	Kurchatov Array Site 2	
KUR20	Kurchatov Array Site 20	
KUR21	Kurchatov Array Site 21	
KUR03	Kurchatov Array Site 3	
KUR04	Kurchatov Array Site 4	
KUR05	Kurchatov Array Site 5	
KUR06	Kurchatov Array Site 6	
KUR07	Kurchatov Array Site 7	
KUR08	Kurchatov Array Site 8	
KUR09	Kurchatov Array Site 9	
KRD	Kurday	
KRM	Kurmenty	
KUU	Kurty	
KGSKZ	Kyrgizsay	
KZAKZ	Kzylasker	
LNSK	Leninskoye	
MTBS	Maitube	
MAKZ	Makanchi	
MKAR	Makanchi Array Beam Reference Point	
MK31	Makanchi Array site	
MK03	Makanchi Array site	
MK01	Makanchi Array site	
MK09	Makanchi Array site	
MK07	Makanchi Array site	
MK05	Makanchi Array site	
MK04	Makanchi Array site	

Code	Station Name	Other
MK08	Makanchi Array site	
MK32	Makanchi Array site	
MK06	Makanchi Array site	
MK02	Makanchi Array site	
MDOK	Medeo	
MRKS	Merke	
OTUK	Ortayu	
USP	Ospenovka	
PDGK	Podgornoye	
KZAG	Qyzylaghash	
SATY	Saty	
SEM	Semipalatinsk	
SHLS	Shalkode	
SGDS	Sogindy	
TDK	Taldyqorghan	
TLG	Talgar	
AAB	Talgar	TLG
AA2	Talgar	TLG
DZA	Taraz	
TNSS	Tian-Shan	
TKMK	Tokmak	
TKM2	Tokmak 2	
TUR	Turbat	
TGN	Turgen	
UZB	Uzynbulak	
VOSK	Vostochnaya	
VOS	Vostochnaya	VOSK
VOS9	Vostochnaya array site	
VOS5	Vostochnaya array site	
VOS8	Vostochnaya array site	
VOS6	Vostochnaya array site	
VOS7	Vostochnaya array site	
VOS4	Vostochnaya array site	
ZSN	Zaisan	
ZRNK	Zerenda	
ZRN4	Zerenda array site	
ZRN7	Zerenda array site	
ZRN9	Zerenda array site	
ZRN5	Zerenda array site	
ZRN6	Zerenda array site	
ZRN8	Zerenda array site	
ZHN	Zhinishke	
Kemerovskaya Oblast'		
BJR1	Bachatsky 1, Kuzbass, Russia	
BJR2	Bachatsky-2, Kuzbass, Russia	
BJR4	Bachatsky-4, Kuzbass, Russia	
Kuwait		
NAY	Al-Naaiem	
QRN	Al-Qurain	
RDF	Al-Radifah	
FKI	Failaka Island	
KBD	Kabd	
MIB	Mutribah	
UMR	Umm Al-Rimmam	
RST	Umm Al-Ruwaisat	
Kyrgyzstan		
ASAI	AK-SAY(Kyrgyzstan)	
AAK	Ala-Archa	
AML	Almayashu	
ANVS	Anan'yevo	
ARLS	Aral	
ARK	Arkit	
ARSB	Arslanbob	
BTK	Batken	
BGK	Belogorka	
BGK2	Belogorka 2	
FRU	Bishkek	
FRU1	Bishkek	
BOOM	Boomskoye uschel'e	
CHVK	Chauvay	
ENEL	Enilchek, Kyrgyzstan	
EKS	Erkin-Say	
EKS2	Erkin-Say	
KDJ	Kajisay	
KBK	Karagaybulak	
DRK	Karamyk	
KRUK	Karasu	
KZA	Kyzart	
KZAD	Kyzyl-Adyr	
MNAS	Manas	
MRZ1	Merzbaher-Enilchek	
NRN	Naryn	
OTK	Orto-Tokoy	
OHH	Osh	
PRZ	Przheval'sk	
RYB	Rybach'ye	
SALK	Salom-Alik	
SFK	Sufi-Kurgan	
TARG	Taragay, Kyrgyzstan	
TRKS	Terek-Say	
TOKL	Toktogul	
UCH	Uchtor	
ULHL	Ulahol	
Lebanon		
BEYL	Beirut	
BHL	Bhannes	
SHBL	Chebaa	
DQRL	Deir Qamar	
DWR	Dweir	
FKH	Fakeheh	
HWQ	Hawqa	
KSA	Ksara	
MATL	Matarih	
NAQL	Naqoura	
QRWL	Qaraoun	
QSB	Qsaybeh	
RCY	Rachaya	
Malaysia		
Peninsular Malaysia		
DSRI	Dabo	
IPM	Ipoh	
FRIM	Kepong	
KGM	Kluang	
MYKOM	Kota Tinggi	
KLM	Kuala Lumpur	
KTGM	Kuala Trengganu	
KTMY	Kuala Trengganu	KTGM
KULM	Kulim	
Sabah		
KKM	Kota Kinabalu	
KDM	Kudat	
MYLDM	Lahad Datu	
SDKM	Sandakan	
TSM	Tawau	
Sarawak		
BTM	Bintulu	
KSM	Kuching	
SBUM	Sibu	
Maldives		
HMDM	Hanimaadhoo	
KAAM	Kaadhehdhoo	
Mongolia		
BYO	Bayan-Olgiy	
BLGM	Bulgan	
DZD	Dalandzadgad	
EBM	Esen Bulak	
HTG	Hatgal	
HBD	Hovd	
SONM	Songino Array Beam Reference Point	
SONA0	Songino Array Site A0	
SONA1	Songino Array Site A1	
SONA2	Songino Array Site A2	
SONA3	Songino Array Site A3	
SONA4	Songino Array Site A4	
SONB1	Songino Array Site B1	
SONB3	Songino Array Site B3	
SONB4	Songino Array Site B4	
SONB5	Songino Array Site B5	
SONB2	Songino Ar. Site	
I34MN	SONGINO INFRASONIC ARRAY REFERENCE POINT	
TSC	Tosontsengel	
TTS	Tsetserleg	
ULN	Ulaanbaatar	
ULG	Ulaangom	
OBM	Ulan Bator	
UB3M		
IVGM		
UB1M		
UB8M		
UB7M		
DZBM		
UNTM		
MGDM		
UB6M		
MO8M		
MO7M		
UGDM		
MO5M		
SEMM		
UB4M		
UB0M		
UB9M		
UB2M		
UB5M		
ALFM		
ARTM		
Myanmar		
MND	Mandalay	
RAN	Rangoon	
SIMRM	Sittwe	
Negros		
CNOP	Candoni, Negros Occidental, Philippines	
Nepal		
BADN	Badegauja	
BAYN	Bayana	
BIRA	Biratnagar	
BUNG	Bungee Jump	
CHA	Chatra	
DMN	Daman	
DANN	Dangsing	
EVN	Everest	
GBAN	Gaibana	
GAIG	Gaighat	
GJRN	Ganjari	
GNKN	Gaynekanda	
GHAN	Ghanteswor	
GKN	Gorkha	
GUN	Gumba	
HARN	Harre	
HILE	Hile	
ILAN	Ilam	
JANA	Janakpur	
JIRN	Jiri	
JIRI	Jiri	
KKN	Kakani	
KOLN	Koldanda	
LGAT	Lohaghat	
MEGN	Megha	
NAMC	Namche Bazar	
ODAN	Odare	
PHAP	Phaplu	
PHID	Phidim	
PKIN	Phulchoki	
PYUN	Piuthan	
PKI	Pulchoki	
PUSN	Pusma	
RAMN	Ramite	
RUMN	Rumjataar	
SINN	Sindhuli	
SUKT	Sukute	
TAPN	Taplejung	
THAK	Thakurichhap	
TUML	Tumlingtar	
Oman		
ARQ	Araqi	
ASHO	Ashiyiah	
ABTO	Aybut	
BANOM	Banah	
BIDO	Bidbid	
BSYO	Bisya	
BSY	Bisya	
DMTO	DMTO	
DQM	DQM	
HOQ	Hoqain	
JMDO	Jabal Madar	
JLN	Jalan Bani Buhassan	
KTMO	Khatum	
MDH	Madha	
MHTO	MHTO	
QHRO	Qairoon Hariti	
RBK	Rabkut	
SMDO	Samad	
SHAO	Shalim	
SOHO	SOHO	
WBK	Wadi Bani Khalid	
WHFO	Wadi Hawf	
WSAR	Wadi Sarin	
Pakistan		
AMP	Ambar	
AMB1	Ambar	
CAM2	Attock	
BGP	Bagra	
BLKT	Balakot	
BASHA	Basha	
BSM1	Besham	
CBP	Campbellpur	
CKP	Chanarkot	
CPA	Chapri	
CHER	Cherat	
CEP	Cherat	
CHCP	Chirah Chowk	
CHT1	Chitral	
CHTL	Chitral	
DAR1	Darband	
DBP	Darband	
DRL	Darel	
KMD1	Dasu	
DRP	Derazinda	
DHO	Dhodishal	
DAM1	Diamer-Basha	
GLGT	Gilgit	
HNL1	Hanuchal	
HAR1	Harban	
ISBA	Islamabad	
DDJ	Jaglot	
KCHI	Karachi	
KAR	Karachi	
KHS1	Khanabri	
KHB1	Khanabri-I	
KHI1	Khiner	
KHUZ	Khuzdar	
KIA	Kiara Terrace	
LAH	Lahore	
MNL	Mangla	
NAT1	Nathian	
NTP	Nathian	
NIL	Nilore	
PAK0	Pari Array Site 0	
PPS1	Pattan	
PSH	Peshawar	
PES	Peshawar	
QIB	Qibla Bandi	
QUET	Quetta	
QUE	Quetta	
QTA	Quetta	
RBH	Right Bank House--Pihur	
SAD	Saidpur	
SARP	Sargodha	
SHN2	Shangus	
SBDP	Sheikh Budin	
SHI1	Shinkiari	
SIP	Shinkiari	
SHO1	Shori	
SKR1	Skardu	
SWR	Swabi-Maira	
SWM1	Swabi Mera	
TRB	Tarbela	
TAR2	Tarbela	
TBLA	Tarbella	
THW	Thamme Wali	
THO1	Thor	
TURB	Turbat	
UMKT	Umerkot	
KMN1	Usha	
UTL	Utla	
WRS	Warsak Dam	
ZHOB	Zhob	
Palestine Territories		
UJAP	Al Uja	
Permskiy Kray		
PR7R	Sarany	
Philippines		
Batan Islands		
BAP*	Basco	
BBP	Basco	
Cebu		
CCP	Cebu City	
LLP	Lapu-Lapu	
MAP	Mactan	
TBP	Tagbilaran	
Leyte		
MSLP	Maasin	
OCLP	Ormoc	
PLP	Palo	
Luzon		
AMB	Ambulong	
ARP	Angono	
BAF*	Baguio	
BAG	Baguio City	
BCP	Baguio City	
BCPH	Baguio City Dairy Farm	
BWP	Baguio Weather Station	
BALP	Baler	
BNP	Banawang	
BTP	Batelco	
NZB	Bigte	
BOAC	Boac	
BOLP	Bolinao	
VBU	Buco	
VBN	Bulusan	
CVP	Callao Caves	
CAUP	Cauayan	
APYP	Conner	
ABRA	Dolores	
INF	Infanta	
LGP	Legaspi	
LEG	Legaspi	
VLH	Lignon Hill	
LYP	Liyang	
LBPH	Los Banos	
LQP	Lukban	
MAN	Manila	
MMPH	Masbate	
MATI	Mati	
VMR	Mayon Resthouse	
VMS	Misericordia	
MNP	Morong	
NBP	Mount Natib	
MSP	Mount Santo Tomas	
SGCP	Mt. Cagua	
OTPR	Odiongan	
PALP	Palanan	
PCPH	Palayan	
PEP	Pantabangan	
PIP	Pasuquin	
PINP	Pinatubo--East Slope	
VPP	Pira-Piraso	
POLP	Polilio Island	
PAZ	Puerto Azul	
QAD	Quadrado	
QCP	Quezon City	
QVPH	Quezon City--PHIVOLCS	
QVP	Quezon City--PHIVOLCS	
AUQP	San Andres	
SBPH	San Jose del Monte	
SMPP	San Manuel, Pangasinan, Philippines	
SZP	Santa	
SCZP	Santa Cruz	
SBP	Subic Bay	
CALP	Taal Volcano	
TGY	Tagaytay City	
TQP	Tayabas	TAY
TAY	Tayabas	
TLP	Tuguegarao	
UMS	Upper Santa Misericordia	
PVCP	Virac	
LUK		
Mindanao		
SKMP	Bagumbayan, Sultan Kudarat, Philippines	
BIP	Bislig	
BIPH	Bislig	
BTN	Butuan	
BUTP	Butuan	
CGP	Cagayan de Oro	
OMP	Cagayan Oro	CGP
CTB	Cotabato	
CTBH	Cotabato--PC Hill	
DAP	Davao	
DMPH	Davao City--Mintal	
DAV	Davao City (W)	
DWP	Davao Weather Station	
DIP	Dipolog	
DCPH	Dipolog City	
DDMP	Don Marcelino, Davao Occidental, Philippines	
GTP	General Santos	
GSPH	General Santos City	
VHH	Hibok Hibok	
IPIL	Ipil	
KCP	Kidapawan	
MAM	Mambajao	
MPP	Mount Pasian	
BUKP	Musuan	
PAGZ	Pagadian	
PPH	Pasian Peak	
SGSI	Sangihe	
SNPH	Sibulan	
SCPH	Surigao	
ZMP	Zamboanga	
ZMPH	Zamboanga City	
Mindoro		
ABP	Abra de Ilog	
LUBP	Lubang	
PGP	Puerto Galera	
SJMP	San Jose	
Negros		
VCB	Cabagna-an	
VCN	Canlaon	
Palawan		
BATP	Bataraza	
BUSP	Coron	
CUYO	Cuyo Island	
ENPP	El Nido	
PPR	Puerto Princesa	
Panay		
AAP	Anini-y	
ILO	Iloilo	
GUIM	Jordan	
KALP	Kalibo	
OTRP	Odiongan	
PDP	Pandan	
PAP	Pandan	
RCP	Roxas	
SIPH	Barangay Tapao	
SIPP	Brgy, Tapao	
GQP	Guinayangan	
JAP	San Jose, Antique	
SHMP	Susana Heights	
ZCP	Zamboanga City	
Samar		
BESP	Borongan	
CNP	Catarman	
Republic of Korea		
KSADO	Andong	
KSAND	Andong	
KSANM	Anmyeondo	
KSBAR	Backryungdo	
KSBRD	Baengnyeongdo	
KSBON	Boeun	
KSCHY	BONGHWA	
PORA	Boryeong	
KSPOR	Boryeong	
BOSB	Boseong-gun	
KSPUA	Buan	
KSBUS	Busan	
KSBSA	Busan_acc	
KSBUY	BUYEO	
KSCHR	CHANGNYEONG	
KSCEA	Cheonan	
KSCEJ	CHEONGJU	
OKCB	Cheongsan-myeong	
KSCHS	CHEONGSONG	
KSCWO	Cheorwon	
KSCHW	Cheorwon	
KSCIG	Chilgok	
KSCHC	Chuncheon	
KSCHJ	Chungju	
KSCPN	Chupungnyeong	
KSCPR	CHUPUNGNYEONG	
DACB	Daecheong-do Republic of korea	
KSDAG	Daegu	
KSDGY	Daegwallycong	
KSTEJ	Daejeon	
KSDAU	Deagu-acc	
KSDEI	Deokjeokdo	
KSDDC	Dongducheon	

Code	Station Name	Other
KSTOH	DONGHAE	
EMSB	Eumseong	
KSGAH	Ganghwa	
KSKAN	Gangneung	
KSGSG	Gangseo	
KSKUC	Geochang	
KSKCH	Geochang	
KSMSA	Geumsan	
KSGIC	Gimchen	
GOCB	Gochang-gun	
KSKOH	Goheung	
KSKOJ	Gongju	
KOJ2	Gongju-si	
KSGOS	Gosan	
GOS1	Gosan-ri	
KSGUM	GUMI	
KSKUS	Gunsan	
KSGUS	GUNSAN	
KSKWJ	Gwangju	
KSGWJ	Gwangju-acc	
GWYB	Gwangyang	
KSGBI	Gyogryolbido	
KSHAD	HADONG	
KSHAN	Haenam	
HALB	Hallimjungang-ro	
HAMB	Hamyang	
KSHAC	HAPCHEON	
KSHUK	Heuksando	
HUK2	Heuksan-myeon	
HWCB	Hwacheon	
HAWB	Hwaseong-si	
KSICN	Icheon	
KSIMS	Imsil	
IMWB	Imwonan-gil	
KSINC	Incheon	
INC	Inchon	
INCN	Inchon	
KSIJA	INJE	
KSJAH	Jangheung	
KUJA	Jangpyeong	
KSJAS	Jangsu	
KSJEC	Jecheon	
KSJJU	Jeju	
KSJEU	Jeongeup	
KSJES	JEONGSEON	
KSCHO	Jeonju	
KSJEO	Jeonju	
KSJDO	Jindo	
KSCHI	Jinju	
KSJIN	Jinju	
KSJMJ	Jumunjin	
KSJUR	Jungrangju	
KSKMS	Keumsan	
KOHB	KOHEUNG	
KSRS	Korea Array	
KSMAS	Masan	
KSMIY	MIRYANG	
MIYA	Miryang-si	
KSMOK	Mokpo	
KSMOP	Mokpo	
KSMAN	Muan gun	
SMKB	Mukjeong-gil	
KSMGY	Mungyeong	
KSMUG	Mungyeong	
KSMUS	Musan	
KSNAJ	Naju	
KSNAH	Namhae	
NAWB	Namwon	
KSNAW	Namwon	
KSNOW	Nowan	
OKEB	Okgye-meyeon	
KSPOH	Pohang	
PHN	Pohang	
KSPHA	Pohang	
PUS	Pusan	
KSPYC	Pyeongchang	
KSGWL	Sabuk	
KSSAC	SANCHEONG	
KSSAJ	Sangju	
KSSGP	Seogwipo	
SEHB	SEOHWA	
KSSSP	Seongsanpo	
KSSES	Seosan	
SEO	Seoul	
KSSEO	Seoul	
SHHB	Siheung-si	
KSSOC	Sokcho	
KSSKC	Sokcho	
KSSOD	Songwoldong	
SUCA	Sunchang	
KSSCH	SUNCHEON	
KSSWO	Suwon	
SYU	Syuhurei	
KSTBA	Taebaek	
TAE	Taegu	
TJN	Taejon	
KSTOY	TONGYEONG	
EURB	Uiryeong-eup	
KSULJ	Uljin	
UJN	ULJIN	
KSULL	Ulleungdo	
ULLB	Ulleungdo bore hole	
UL1	ULLUNGDO	
KSULS	Ulsan	
KSUSN	Ulsan	
KSEUS	ULSEONG	
KSWAN	Wando	
KSWON	Wonju	
KSWJU	Wonju	
KSAR	Wonju Array Beam Reference Point	
KS01	Wonju Array Site 1	
KS10	Wonju Array Site 10	
KS11	Wonju Array Site 11	
KS12	Wonju Array Site 12	
KS13	Wonju Array Site 13	
KS14	Wonju Array Site 14	
KS16	Wonju Array Site 16	
KS17	Wonju Array Site 17	
KS18	Wonju Array Site 18	
KS19	Wonju Array Site 19	
KS02	Wonju Array Site 2	
KS03	Wonju Array Site 3	
KS32	Wonju Array Site 32	
KS33	Wonju Array Site 33	
KS34	Wonju Array Site 34	
KS35	Wonju Array Site 35	
KS36	Wonju Array Site 36	
KS37	Wonju Array Site 37	
KS04	Wonju Array Site 4	
KS05	Wonju Array Site 5	
KS06	Wonju Array Site 6	
KS07	Wonju Array Site 7	
KS08	Wonju Array Site 8	
KS09	Wonju Array Site 9	
KS15	Wonju Array Sites 15 and 31	
YAPA	Yangpyeong	
KSYAP	YANGPYEONG	
KSYCH	Yecheon	
YNCB	YEONCHEON	
KSYOC	YEONGCHEON	
KSYOD	Yeongdeok	
KSYOJ	YEONGJU	
KSYOW	Yeongwol	
KSYOS	Yeosu	
KSYSU	YEOSU	
YJD	YOUNGJONGDO	
Russia		
Altayskiy Kray		
AKAR	Aktash	
ARDR	Aradan	
ARTR	Artybash	
CUR	Chagan-Uzun	
CHBI	Chibit, Altay Republic, Russia	
ELDR	Elanda	
ELT	Eltsovka	
ELT0	Eltsovka	
GALT	Gorno-Altaysk, Altai Republic, Russia	
DGZ	Jazzator, Altay Republic, Russia	
KTNR	Kaitanak	
SLNR	Muhor-Tarhata, Altay Republic, Russia	
SALR	Pechorkino, Salair, Kemerovskaya Oblast', Russia	
TUNR	Tungur	
ULGR	Ulagan, Altay Republic, Russia	
UKR	Ust'-Kan	
YALR	Yailyu, Altay Republic, Russia	
ZAL	Zalesovo	
ZAA0	Zalesovo Array Site A0	
ZAA1	Zalesovo Array Site A1	
ZAA2	Zalesovo Array Site A2	
ZAA3	Zalesovo Array Site A3	
ZAB1	Zalesovo Array Site B1	
ZAB2	Zalesovo Array Site B2	
ZAB3	Zalesovo Array Site B3	
ZAB4	Zalesovo Array Site B4	
ZAB5	Zalesovo Array Site B5	
ZALV	Zalesovo Beam	
I46RU	ZALESOVO INFRASONIC ARRAY REFERENCE POINT	
Amurskaya Oblast'		
BMKR	Bomnak	
BMKS	Bomnak	
IMNS	Imangra	
KHNS	Khani	
KHY	Khatystyr	
KROS	Kirovskiy	
RMNS	Romny	
TOK1	Tok Station 1	
TOK2	Tok Station 2	
TOK3	Tok Station 3	
TOK4	Tok Station 4	
TUG	Tungurcha	
USZ	Ust'-Nyukzha	
UURS	Ust' Urkima	
YASR	Yasnyy	
YASS	Yasnyy	
ZEA	Zeya	
Arkangel'skaya Oblast'		
LSH	Leshukonskoye	
PRGR	Permogore	
Arkhangel'skaya Oblast'		
AMDE	Amderma	
AMD	Amderma	
ARHR	Arkhangelsk	
KHE	Kheis	
KLMR	Klimovskoe	
SLVR	Solovky	
TMCR	Tamitsa	
ZFI	Zemlya Franca-Iocifa	
ZFI2	Zemlya Franca-Iocifa2	
Bashkortostan		
UFA	Ufa	
Buryatiya		
ALL	Alla	
ALLA	Alla	ALL
BTMB	Babushkin	
BGZ	Barguzin	
BDN	Bodon	
BRHS	Bolshoi Rechka	
FFNB	Fofonovo	
KAB	Kabansk	
KPC	Khapcheranga	
HRMR	Khuramsha	
KELR	Kotokel	
KVO	Kovokta	
KUM*	Kumora	KMO
KMO	Kumora	
KYA	Kyakhta	
MXMB	Maximikha	
MOY	Mondy	
NLY	Nelyaty	
NIZ	Nizh Angarsk	
ORA	Oran	
ORL	Orlik	
OZE	Ozernaya	
SVBS	Severo-Baykalsk	
SVKR	Severomuysk	
SVK	Severo-Muysk	
STDB	Stepnoy Dvorets	
SYVR	Suvo	
TNL	Tonnelnyy	
ZIP	Tsipikan	
TNKS	Turikan	
TRTB	Turuntaevo	
TRTS	Turuntaevo, Baikal	
UKT	Uakit	
UUDB	Ulan-Yde	
YLYR	Ulyunkhan	
YOA	Uoyan	
ZAK	Zakamensk	
ZRHB	Zarechye	
ZRH	Zaryechye, Baikal	
Chechnya		
GRO	Groznyy	
DVE	Vedeno	
Chitinskaya Oblast'		
CIT	Chita	
NLYR	Nelyaty	
SRK	Sredniy Kalar	
TUP	Tupik	
Dagestan		
AKT	Akhty	
ARKR	Arakani	
BTLR	Botlikh	
BUJR	Buynaksk	
DRN	Derbent	
DBC	Dubki	
DLMR	Dylym	
GNBR	Gunib	
KRNR	Karanay	
KSMR	Kasumkent	
XNZR	Khunzakh	
KMKR	Kumukh	
MAK	Makhachkala	
MNSR	Manas	
SGKR	Sergokala	
UKTR	Uchkent	
UNCR	Uncukul	
URKR	Urkarakh	
Irkutskaya Oblast'		
ARS	Arshan	
BAY	Bayanday	
BOD	Bodaibo	
BGT	Bolshoye Goloustnoye	
CRS	Chara	
IRK	Irkutsk	
IVK	Ivanovka	
LSTR	Listvyanka	
OGRR	Ongureny	
SOL	Solontsovaya	
TLY	Talaya	
TANS	Tal'yany, Baikal	
TRG	Tyrgan	
Kaliningradskaya Oblast'		
KLNR	Kaliningrad	
KNG	Konigsberg	
Kaluzhskaya Oblast'		
OBN	Obninsk	
Kamchatskaya Oblast'		
ALID	Alaid	
APC	Apacha	
APN	Apakhonchich	
KRX	Arik	
ASHS	Asacha	
ASAK	Asacha	
AVH	Avacha	
BDR	Baidarnaya	
BERS	Berezovaya	
BKI	Bering	
BZMS	Bezymyanka	
BZMR	Bezymyannaya	
BZGR	Bezymyannyi-Griva	
BZWR	Bezymyannyi-West	
BLCS	Bulochka	
DALK	Dalny	
ES2	Esso	
ESO	Esso	
GNL	Ganaly	
GRL	Gorelyy	
HAIS	HAIS	
INSR	Institute	
KAMP	Kamchatka Peninsula	
ST02S	Kamchatka temporary site	
ST03S	Kamchatka temporary site	
ST01S	Kamchatka temporary site	
KMNR	Kamenistaya	
KMSK	Kamenskaya	
KAMR	Kamenskoye	
KRMR	Karymshinskiy	
KII	Karymskiy	
KDTR	Khodutka, Kamchatskaya Oblast',Russia	
KIRR	Kirishev	
KZV	Kizimen	
KLY	Klyuchi	
KPT	Kopyto	
KOK	Koryaka	
KRER	Koryakskii	
KZL	Kozel'skiy	
KOZ*	Kozyr	KOZR
KOZR	Kozyr	
KOZ	Kozyrevsk	
KRSR	Krestovskiy	
KRN	Kronoki	
KBG	Krutoberegovo	
KBTR	Krutoberegovo 1	
LGNR	Loginova	
MIPR	Malaya Ipel'ka	
MKV	Markovo, Chukotka	
MAYS	Mayak na Mysu Ozernom	
MEDS	Mednyi	
MLKS	Milkovo	
MTVR	Mutnovka	
MTNS	Mutnovskaya	
MKZ	Mys Kozlova	
KRCS	Mys Kronotskii	
SPN	Mys Shipunski	
NCHK	Nachiki	
NALY	Nalychevo	
NLC	Nalytchevo	
OSSR	Ossora	
OZRR	Ozero (Kronotsky)	
PCHS	Pakhachi	
PALN	Palana	
PALS	Palana	
PAU	Pauzhetka	
PET	Petropavlovsk	
PEA0B	opavlovsk-Kamchatskiy Array site AOB	
PETK	opavlovsk-Kamchatskiy Array site P	
PES2	opavlovsk-Kamchatskiy Array site S2	
I44RU	ROPAVLOVSK-KAMCHATSKY KY INFRASONIC ARRAY REFERENCE POINT	
PDK	Podkova	
RUS	Russkaya	
SDLR	Sedlovina	
SMKR	Semkarok	
SEL	Semlyachik	
SVLR	Shiveluch	
KPLS	Shiveluch-Kupola	
SBRT	Shubertovo	
SMAR	Somma	
SRKR	Sorokina	
SRDR	Sredinnyy	
TIGL	Tigil	
TILR	Tilichiki	
TIL	Tilichiki	
TILK	Tilichiki	
TLBS	Tolbacick	
TOP	Topolovo	
CIRR	Tsirk	
TUMR	Tumrok	
TUMD	Tumrok D	
UGLR	Uglovaya	
VEK	Verkhne-Kamchatsk	
VDP	Vodopadnii	
ZLN	Zelenaya	
Karel'skaya		
LVZ	Lovozero	
Kemerovskaya Oblast'		
ASR1	Anjero-Sudjensk, Russia	
BRCR	Berchikul'	
KEM	Kemerovo	
LUZB	Luzhba, Kemerovskaya Oblast', Russia	
POMOR	Pomortsevo, Kuzbass, Russia	
TASR	Tashtagol	
VEH	Verkhnyaya Baza	
Khabarovskiy Kray		
EKMR	Ekimchan	
GRNR	Gornyy	
HABR	Khabarovsk	
KHBR	Khabarovsk	
LZR	Lazarev	
MNVS	Mnogovershinnie	
NKL	Nikolayevsk	
OKHR	Okhotsk	
OHTR	Okhotsk	
OKHT	Okhotsk	
URG	Urgal	
Khakassia		
CERR	Cheremushki	
DJO	Djoy, Khakassia, Russia	
DJOS	Djoyskaya Sosnovka, Khakassia, Russia	
Khanty-Mansi Autonomous Okrug		
BYAR	Belyy Yar	
HMA	Khanty-Mansiysk	
SKZ	Skazka	
Kirovskaya Oblast'		
KIRV	Kirov	
Komi		
NUUK	Nuuk	
SYKR	Syktyvkar	
Krasnodarskiy Kray		
ANN	Anapa	
GYMZ	Gyumri	
KPR	KrasnayaPolyana	
RPOR	Krasnaya Polyana	
KGUR	Krasnodar	
LABN	Labinsk	
SOC	Sochi	
VOZR	Vozrozhdenie	
ERBR	Yeremizino-Borisovskaya	
Krasnoyarskiy Kray		
ABNR	Abakan	
BLRR	Bol'shaya Rechka	
DVG	Divnogorsk	
HVS	Khovu-Aksy	
KDN	Kodinsk	
KRAR	Krasnoyarsk	
KTRR	Kuturchin	
KZLR	Kyzyl	
MINR	Mina	
NRIK	Noril'sk	
NRIS	Noril'sk	
NRI	Noril'sk	
NRIL	Noril'sk	
ORHR	Oreshnoe	
ORY	Orie	
SHRR	Shira	
TBTR	Tabat	
TBRR	Tiberkul'	
ZLNR	Zelenogorsk	
GZLN	Zheleznogorsk	
SHTK	Zheleznogorsk-3, Russia	
GZL	Zheleznogorsk city	
Leningradskaya Oblast'		
PUL	Pulkovo	
NE51	Saint Petersburg	
LNN	Saint Petersburg	
VYB	Vyborg	
Magadanskaya Oblast'		
ANDR	Anadyr'	
ANSS	Anadyr, Chukotka	
ANDR2	Anadyr, Chukotka	
BILL	Bilibino	
BILI	Bilibino, Chukotka	
CES	Cherskiy	
DBI	Debin	
EGV	Egvekinot, Chukotka	
EVEN	Evensk	
EVES	Evensk	
EVNR	Evensk	
ILT	Iul'tin	
KLEP	Klepka	
GOLD	Kubaka	
KULR	Kulu	
MA2	Magadan	
MAG	Magadan	
MGD	Magadan 1	
TEC1	Magadan Thermoelectric Plant	
MKI	Maiskii, Chutkotka	
MYAS	Myakit	
NKB	Nel'koba	
NMA2	New Magadan Station 2	
OBOS	Obo	
OLAR	Ola	
OCHR	Omchak	
OMOL	Omolon, Chukotka	
OMS	Omsukchan	
ORBT	Orbita	
ORTS	Orotukan	
PROV	Provideniya	
SEY	Seymchan	

Code	Station Name	Other
SS40	Seymchan - Ulakhan Temp Deploy	
SS42	Seymchan - Ulakhan Temp Deploy	
SS41	Seymchan - Ulakhan Temp Deploy	
SNGR	Sinegor'e	
SNGS	Sinegor'e	
SNE	Sinegor'e	
SUUS	Susuman	
GRESR	Susuman	
SS01	Susuman-Seymchan profile, station 01	
SS02	Susuman-Seymchan profile, station 02	
SS03	Susuman-Seymchan profile, station 03	
SS04	Susuman-Seymchan profile, station 04	
SS05	Susuman-Seymchan profile, station 05	
SS06	Susuman-Seymchan profile, station 06	
SS07	Susuman-Seymchan profile, station 07	
SS08	Susuman-Seymchan profile, station 08	
SS09	Susuman-Seymchan profile, station 09	
SS10	Susuman-Seymchan profile, station 10	
TTY	Takhtoyamsk	
TLAR	Talaya	
TONS	Talon	
TURS	Tal-Yuryakh	
SS62	Tal-Yuryakh Coal Mine	
TAUS	Tauisk	
ST18S	Temporary aftershock station near Magadan	
ST20S	Temporary station #20	
ST21S	Temporary station #21	
ST22S	Temporary station #22	
ST23S	Temporary station #23	
USO	Ust'-Omchug	
YAGS	Yagodnoe	
Moskovskaya Oblast'		
I43RU	DUBNA INFRASONIC ARRAY REFERENCE POINT	
KUC	Kucino	
MHV	Michnevo	
MOS	Moscow	
Murmanskaya Oblast'		
APZ9	Apatity	
APA	Apatity	
APAES	Apatity Array Beam Reference Point	
APA0	Apatity Array Site A0	
APA1	Apatity Array Site A1	
APA2	Apatity Array Site A2	
APA3	Apatity Array Site A3	
APB1	Apatity Array Site B1	
APB2	Apatity Array Site B2	
APB3	Apatity Array Site B3	
APB4	Apatity Array Site B4	
APB5	Apatity Array Site B5	
Nizhegorodskaya Oblast'		
PECR	Pechory	
Novosibirskaya Oblast'		
ALXA	Alekseevka, NSO, Russia	
BSTK	Bystrovka, Novosibirskaya Oblast', Russia	
KHAR	Kharino, NSO, Russia	
NVS	Novosibirsk	
NVSII	Novosibirsk	
NHES	Novosibirsk, NHES, Russia	
Orenburgskaya Oblast'		
LBGK	Lebyazhka	
ORR	Orenburg	
OR2	Orenburg-2	
OR3	Orenburg-3	
TRCK	Troitsky	
Permskiy Kray		
PR2R	Dobryanka	
PR6R	Ekimyata	
KIZR	Kizel	
PR3R	Kungur	
PR5R	Perm'	
PR1R	Pomanovo	
SOKR	Solikamsk	
PR0R	Verkhnechusovskiye Gorodki	
PR4R	Vlasy	
Primorskiy Kray		
GRTS	Gornotaezhnoe	
GRTR	Gornotajezhnoje	
GRVS	Gornovodnoe	
MSHR	Mys Shultsa	
TEY	Ternei	
USA0B	Ussuriysk Array Site A0B	
I45RU	USSURIYSK INFRASONIC ARRAY REFERENCE POINT	
USK	Ussuryisk	
VLA	Vladivostok	
ZMN	Zimniki	
Pskovskaya Oblast'		
NE52	Pskov	
ARXR	Arkhyz	
BEYR	Belyy Ugol+	
GROC	Groznyy	
GUZR	Guzeripl'	
NCK	Nalchik	
NEY	Neytrino	
PEA0	opavlovsk-Kamchatskiy kiy Array Site A0	
PEA1	opavlovsk-Kamchatskiy kiy Array Site A1	
PEA2	opavlovsk-Kamchatskiy kiy Array Site A2	
PEA3	opavlovsk-Kamchatskiy kiy Array Site A3	
PEB1	opavlovsk-Kamchatskiy kiy Array Site B1	
PEB2	opavlovsk-Kamchatskiy kiy Array Site B2	
PEB3	opavlovsk-Kamchatskiy kiy Array Site B3	
PEB4	opavlovsk-Kamchatskiy kiy Array Site B4	
PEB5	opavlovsk-Kamchatskiy kiy Array Site B5	
PYA1	Pyatigorsk	
USRK	Ussuriysk Ar. Beam Pt.	
USA0	Ussuriysk Array Site A0	
USA1	Ussuriysk Array Site A1	
USA2	Ussuriysk Array Site A2	
USA3	Ussuriysk Array Site A3	
USB1	Ussuriysk Array Site B1	
USB2	Ussuriysk Array Site B2	
USB3	Ussuriysk Array Site B3	
USB4	Ussuriysk Array Site B4	
USB5	Ussuriysk Array Site B5	
Sakha		
ALDR	Aldan	
ACHS	Amedichi	
ATKR	Artyk	
AYK2	Artyk	
BTGS	Batagay	
YBGR	Belaya Gora	
BLSR	Buluus	
CGD	Chagda	
YCRN	Chernyshevskiy	
CKH	Chokchoi	
CLNS	Chul'man	
CL1S	Chul'man	
DEPR	Deputatskiy	
DUYS	Dunai	
IENR	Iengra	
KBKS	Kabaktan	
UL2S	Kamenistyi	
KNGL	Kangalassy	
KHG	Khandyga	
KHN	Khani	
KHNR	Khani	
AY1S	Kobdi	
KYU	Kyusyur	
MOMR	Moma	
NGRS	Nagornyi	
NAYS	Naiba	
NRGR	Nerungri	
NYG	Neryungri	
NZD	Nezhdaninsk	
NBS	Nizhniy Bestyah	
OLMR	Olekminsk	
AY2S	Ozernaya	
PDY	Peleduy	
PDYAR	Peleduy Array Beam Reference Point	
PDY01	Peleduy Array Site 01	
PDY02	Peleduy Array Site 02	
PDY03	Peleduy Array Site 03	
PDY04	Peleduy Array Site 04	
PDY05	Peleduy Array Site 05	
PDY06	Peleduy Array Site 06	
PDY07	Peleduy Array Site 07	
PDY08	Peleduy Array Site 08	
PDY09	Peleduy Array Site 09	
PDY31	Peleduy Array Site 31	
SAYS	Saidy	
SSYS	Sasyr	
SOTR	Stolb	
SYL	Syllakh	
TBGR	Tabaga	
TBK	Tabalakh	
TML	Taimylyr	
TLIS	Tenkeli	
TIXI	Tiksi	
TIK	Tiksi	
AY3S	Tungusskii	
TNDR	Tynda	
UL1S	Tyubelyakh	
USMR	Ust'-Maya	
UNR	Ust'-Nera	
UNR1	Ust'Nera (new)	
YVAM	Verhnyaya Amga	
VTM	Vitim	
VTMR	Vitim	
YAK	Yakutsk	
YRG	Yaruga	
YUB	Yubileniya	
YKLR	Yuktali	
ZYR	Zyryanka	
Sakhalinskaya Oblast'		
BLSS	Belie Skali	
BSK4	Belie Skalie	
CHST	Chistovodnoe	
ESU	Esutoru	
FRSO	Firsovo	
GLVR	Golovnino	
GOY	Gornyy	
KLN4	Kalinino	
KHLM	Kholmsk	
KOS	Kosmodemyansk	
KUR	Kuril'sk	
LAGR	Lagunnoye	
LSN4	Lesnoe	
LES	Lesozavodsk	
MLK4	Malkovo	
MLK*	Malo-Kuril'sk	
MAU	Matua	
KRS4	Mayak Korsakovskie (Korsakov)	
MNDR	Mendeleevo	
NEVR	Nevel'sk	
NGLR	Nogliki	
NGLS	Nogliki	
NVV	Nyvrovo	
OKH	Okha	
OOT	Ootomari	
OSMR	Ostromysovka	
OTI	Otiai	
OJD4	Ozhidaevo	
OZHR	Ozhidaevo	
PETS	Petropavlovskoye	
REI	Reidovoe	
SKR	Severo-Kuril'sk	
SHO	Shikotan	
SKT*	Shikotan	SHO
SKK	Sikka	
SIU	Simushir	
GRPR	Tuman	
TYV	Tymovskoe	
UGL	Uglegorsk	
ZLDR	Utesnoe	
UTSR	Utesnoe	
YUK	Yuzh-Kuril'sk	
YSS	Yuzh-Sakhalinsk	
ZGR4	Zagorskoe	
Saratovskaya Oblast'		
SARR	Saratov	
Severo-Osetinskaya		
ARNR	Ardon	
BTKR	Batakoyurt	
DIGR	Digorskoe uzhel'e	
KMGR	Komgaron	
KMSR	Komsomolskaya	
KORR	Kora	
LACR	Lac	
LSNR	Lesken	
PRTR	Priterechnaya	
STDR	Stavd-Durt	
SNJR	Sundja	
TRKR	Terskaya	
ZEI	Tsey	
VLKR	Vladikavkaz	
Stavropol'skiy Kray		
DOMR	Dombai	
GOF	Gofitskoye	
GUMR	Gum-Bashi	
KBZ	Khabaz	
KIV	Kislovodsk	
KVAR	Kislovodsk Array Beam Reference Point	
KIV0	Kislovodsk Array Site 0	KVAR
KIV1	Kislovodsk Array Site 1	
KIV2	Kislovodsk Array Site 2	
KIV3	Kislovodsk Array Site 3	
KUBR	Kubataba	
KBTC	Kuba-Taba	
NAGR	Nagutskaya	
PYA	Pyatigorsk	
SHAR	Shatzhatmas	
SHA1	Shidzhatmaz	
STRR	Strizhament	
Sverdlovskaya Oblast'		
ARU	Arti	
KAUR	Kamensk Uralskiy	
SVUR	Severouralsk	
SVE	Sverdlovsk	
The Chukotsky Autonomous Okrug		
LAVR	Lavrentia	
NSH2	Neshkan	
NSH	Neshkan, Chukotka	
PRVR	Provideniya	
YLNS	Uelen temporary site, Chukotka	
Tyva		
ERNS	Erzin	
KNGR	Kungurtug, Tuva Republic, Russia	
SHUI	Shui	
TEL	Teeli	
TDJR	Todzha	
UER	Ust'-Elegest	
Voronezhskaya Oblast'		
VORD	Divnogorie	
LPSR	Galich'ya Gora	
VRHR	Novokhopersk	
VRH	Novokhopyorsk	
VSR	Storozhevoye	
VRSR	Storozhevoye	
VORR	Voronezh	
VOR	Voronezh	
Yevreyskaya Avtonomnaya Oblast'		
KNGS	Khingansk	
KLR	Kul'dur	
LNY12	LNY12	
LNY13	LNY13	
LNY14	LNY14	
LNY15	LNY15	
LNY16	LNY16	
LNY17	LNY17	
MADS	Madsous	
MKNA	Makna	
MYKS	Mirrayikh	
MZLS	Mizel	
MOHS	Muhayil	
NAJS	Najran	
BODY	Near Bada	
MATS	Near Sharaf	
QASM	Qassim	
QURS	Qurayyt al Milh	
RNYS	Ranyah	
RHT01	RHT01	
RHT02	RHT02	
RHT03	RHT03	
RHT04	RHT04	
RHT05	RHT05	
RHT06	RHT06	
RHT07	RHT07	
RHT08	RHT08	
RHT09	RHT09	
RHT10	RHT10	
RHT11	RHT11	
RHT13	RHT13	
RHT14	RHT14	
RHT15	RHT15	
RYD	Riyadh	
RYDS	Riyadh	
SRAT	Sarat Abidah	
SHRF	Sharaf	
SRFA	Sharaf	
SALT	Sultana	
TBKS	Tabuk	
TAF1	Taif	
TATS	Tathlith	
TAYS	Tayyib Ism	
UMJS	Umm Lajj	
UQSK	'Uqlat as Suqur	
WBHS	Wadi 'Ibn Hashbal	
HASS	Wahat al Ahsa'	
WASL	Wasel	
YNBS	Yanbu' al Bahr	
DJNS	Zahran al Janub	
SLWS		
HRDDS		
SHBS		
FDAS		
JLOS		
WJHS		
BTHS		
DARB		
KFJS		
LYLS		
YOBS		
RSHS		
ASYS		
BOQSS		
SHMS		
HQLS		
Saratovskaya Oblast'		
BELG	Belogornoye	
Saudi Arabia		
ABHA	Abha	
ABAR	Abu 'Arish	
AFIF	Afif	
AFFS	'Afif	
BDAS	Al Bad'	
BADA	Al Bad'	
HWYS	Al Hawiyah	
KAMS	Al Khamasin	
LITH	Al Lith	
LTHS	Al Lith	
MJMA	Al Majma'ah	
SHRA	Al Sharaya	
SODA	Al Sooda	
AYN	Al'Uyaynah	
WAJH	Al Wajh	
NAMS	An Nimas	
ARSS	Ar Rass	
RAYN	Ar Rayn	
TAIF	At Ta'if	
AYUS	'Aynunah	
BARA	Bahrah	
BHRA	Bahrah	
BLJS	Baljurashi	
BIDS	Bi'r al Bayda'	
BMSH	Bir Mashi	
BISH	Bishah	
DHR	Dhahran	
DHJN	Dharan Janob	
DBAS	Duba	
FRAS	Faraa	
FRSS	Farasan al Kabir	
HKNS	Hadbat Hakran	
HILS	Ha'il	
HAQS	Haql	
HQL	Haql	
ALWS	Ilw as Safayhah	
JMOS	Jabal al Moallq	
FRJS	Jabal Farasan	
LBNS	Jabal Laban	
JMQS	Jabal Moqyreh	
JAZS	Jizan	
JIZN	Jizan	
KMSA	Khamasin	
KMTU	Khamis Mushayt	KMTA
KMTA	Khamis Mushayt	
KBRS	Khaybar	
Singapore		
BTDF	Bukit Timah Dairy	
SING	Singapore	
Spratly Islands		
KIPH	Kalayaan	
Sri Lanka		
COC	Colombo	
HALK	Hakmana	
MALK	Mahakanadarawa	
PALK	Pallekele	
Stavropol'skiy Kray		
NVNR	Nevinnomyssk	
Syria		
KOOC	Abou Kooc	
RABH	Abou Rabah	
ARNB	Al Arnab	
BSHR	Al Beshri	
BIDA	Albida	
JHLN	Al Jahlan	
MZRK	Al-Mazaregh	
MNKR	ALMNKUR	
SLMH	Al Salmeh	
WHAB	Al Wahab	
BDRN	Badran	
BRBR	Barbar	
BTCH	Batrach	
DUSS	Damascus University	
DRBT	Darb Altahta	
DRWC	Darouich	
HAWK	Haweek	
KBSD	Kabsdagh	
KSRV	Kasrt alli	
KFRA	Kufra	
QASN	Qassioun	
MARH	Ras Al Marh	
SALA	Sala	
SLNF	Slenfeh	
SFNV	Sufian	
TCHB	Talchebab	
ROOS	tl_alroos	
TOTH	TOTAH	
WRDH	Warideh	
ZALF	Zalf	
Taiwan region		
ALS	Alishan	
ANP	Anpu	
EAST	Anshuo	
ZPLA	Ao Xicun	
BGSB	Baguashan	
TWGBT	Beinan	
WCH	Changhua City	
CHKT	Chengkung	
TWY	Chenhua	
TWD	Chiawan	
CHY	Chiayi	
TSCK	Chigu Township	
KNMB	Chin-men Tao	
CHN6	CHN6	
TWR	Chutung	
WDJ	Dajia District, Taichung City	

Code	Station Name	Other
WDT	Danda	
NTST	Danshui	
XPSS	Dashiqiu	
NNSB	Datong	
NNSH	Datong	
NDT	Datong Township	
WLTB	Daxi	
WDL	Douliou City	
WDLH	Douliu	
WDGT	Dungji	
TWDS	Dungshr Township	
LIOB	Emei	
EOS1	EOS1	
RLNB	Erlin	
SCZT	Fangliau	
TWE*	Feng-lin	
FULB	Fuli	
ETL	Fush Village	
EGFH	Guangfu	
WGK	Gukeng	
TNGL	Gungliau Township	
DPDB	Guoxing	
WSSB	Gushan	
WHF	Hehuan Shan	
EHC	Hejung	
TSEB	Hengchuen, Pingtung county	
TWKBT	Hengchun	
HEN	Hengchun	
TWK1	Hengchun	
EHP	Heping Village	
PTMZ	Houxiangcun	
WLCT	Hsiaoliuchiu	
TWP	Hsiaoliuchiu	
HSN	Hsinchu	
SBCB	Hsinchu	
SGK	Hsinkong	HSI
HSI	Hsinkong	
TWK	Hsinying	
HWAP	Hualien Port	
EHY	Hungye	
HWA	Hwalien	
YLA	Ilan	ILA
ILA	Ilan	
AXDP	Jialang	
SCLT	Jiali	
LYJJ	Jianjiangzhen	
EGA	Jian Township	
SGST	Jiashian	
TEGC	Jichi Village	
SGLT	Jiouru	
KAU	Kaohsiung	
SNJT	Kaohsiung City	
KAUP	Kaohsiung Port	
KLUP	Keelung Port	
KNM	Kinmen	
TWS1	Kuangyinshan	
TWX	Kuosheng	
TWI	Lanshu	
LYUB	Lan-yu	
LAY	Lan-yu	
ELDTW	Lidau	
CHN7	Lioujiau	
SLGT	Liugui	
WLCH	Liuqiu	
TWQ1	Liyutan	
TWH	Lutao	
WMLT	Mailiao	
MASBT	Mashibuluo	
MTST	Matsu	
MATB	Ma-tsu	
TWO1	Meishan	
TWO	Meishan	
NMLH	Miaoli	
NML	Miaoli City	
WNT	Mingjian	
CHN2	Minshiung	
TWA	Mucha	
ENAH	Nanao	
NANB	Nanao	
ENA	Nanau	
NSTT	Nanjuang	
NNS	Nan Shan	
CHN1	Nanshi	
NCU	National Central University	
TNOU	National Taiwan Ocean University, Keelung City	
TWE	Neicheng	
TWZ	Neifu	
NACB	Ninganchiao	
ENTT	Nioudou	
PCYT	Pengchaiyu	
PNG	Penghu	
PHUB	P'eng-hu	
PTTC	Pingtan	
TSPT	Pingtung City	
TWG	Pinlang	
VDOS	Pratas Island	
WPL	Puli Township	
WLGB	Puzi	
VCHM	Qimei	
CHGB	Renai	
OWD	Renai	
HGSD	Ruisui	
SSD	Sandimen	
NSK	Sanguang	
TWB1	Santiao Chiao	
NSY	Sanyi	
ESL	Shilin	
TNSD	Shindian Village	
CHN3	Shinhua	
ENLB	Shoufeng	
ESF	Shoufeng Township	
TWM	Shoushan	
TWM1	Shoushan	
TIPB	Shuangxi	
SSLB	Suanglung	
TWC	Suao	
TWCP	Suao Port	
SMLT	Sun Moon Lake	
WSF	Szhu	
WTCT	Ta-ch'eng	
TWT	Tachien	
SANB	Taian	
TCU	Taichung	
WHP	Taichung City	
TCUP	Taichung Port	
ECL	Taimali	
TAI	Tainan	
TAI2	Tainan City	
SNST	Tainan City	
TATO	Taipei	
TAP1	Taipei	
TAP	Taipei	
TTN	Taitung	
WTP	Ta-pu	
TPUB	Ta-pu	
STYT	Tauyuan	
TAW	Tawu	
TWJ1	Tawu	
TDCB	Techi	
NTC	Toucheng	
CHN5	Tsauling	
CHN4	Tsaushan	
TWQ	Tungshih	
VWDT	VWDT	
VWUC	VWUC	
WFSB	Wu-fen Shan	
NWF	Wu-fen Shan	
NWLT	Wulai	
TWU	Wulai	
SSPT	Xinbi	
NHDH	Xindian District, New Taipei City	
NHW	Xinwu Township	
WHYT	Xinyi Township	
ETLH	Xiulin Township	
TEYL	Yanliau Village	
YHNB	Yeheng	
MHZQ	Yeshan	
CHN8	Yiju	
YM01	YM01	
YM03	YM03	
YM04	YM04	
YM05	YM05	
YM06	YM06	
YM07	YM07	
YM08	YM08	
YM09	YM09	
YM10	YM10	
YM11	YM11	
YM12	YM12	
PTSB	Yuanli	
WYL	Yuanlin Township	
SLBB	Yuanshan	
TYC	Yuchr	
TWF	Yuli	
TWF1	Yuli	
YULB	Yu-li	
TAI1	Yung-k'ang	
YUS	Yu-Shan	
WCHH	Zhanghua	
NCUH	Zhongli	
WJS	Zhushan	
EGS		
Tajikistan		
AKUL	Akkuyli	
BLD	Baljuvan	
BZN	Bogi-Zagon	
CHLD	Childara	
CSD	Chor-Sady	
CGT	Chuian-Garon	
CHS	Chusal	
CHGR	Chuyangaron	
DSH	Dushanbe	
DZH	Dzhafr	
DZET	Dzherino	
DZE	Dzherino	
DZT	Dzhirgatal'	
GAR	Garm	
GAM	Garm	GAR
GEZ	Gezan	
GIS	Gissar	
IGR	Igron	
ISH	Ishtion	
KFTR	Kaftarguzar	
KLD	Kalaidasht	
KLTT	Kalaidasht	
KNR	Kangurt	
KRU	Karasu	
KHAT	Khait	
KHO	Khorog	
KHR	Khorongon	
KHUM	Khumson	
KOMA	Komarou	
KOMS	Komsomolabad	
KUL	Kulyab	
KYZD	Kyzyldzhar	
LNA	Lyangar	
MUR	Murgab	
MUP	Murgab	
MUS	Muskinabad	
NRK	Nurek	
OBG	Obi Garm	
PSV	Pishtovo	
RGR	Regar	
REG*	Regar	RGR
RAG	Roghun	
SNGI	Sangi-Kar	
SAT	Sang-Tuda	
SGZ	Semigandzh	
SHTS	Shaartuz	
SMT	Sultan-Mazar	
TDT	Tavil'dara	
URT	Ura-Tyube	
YAT	Yaldymych	
ZIM	Zimchurud	
Thailand		
TMDB	BangkokBB_BH_low_level	
BDT	Bhumibol Dam	
CHAI	Chaiyaphum	
CHAT	Chantaburi	
CHBT	CHBT	
CHG	Chiang Mai	CHTO
CMMT	Chiang Mai	
CHTO	Chiang Mai	
CMAR	Chiang Mai Array Beam Reference Point	
CM01	Chiang Mai Array Site 1	
CM10	Chiang Mai Array Site 10	
CM11	Chiang Mai Array Site 11	
CM12	Chiang Mai Array Site 12	
CM13	Chiang Mai Array Site 13	
CM14	Chiang Mai Array Site 14	
CM15	Chiang Mai Array Site 15	
CM16	Chiang Mai Array Site 16	CMAR
CM17	Chiang Mai Array Site 17	
CM18	Chiang Mai Array Site 18	
CM02	Chiang Mai Array Site 2	
CM03	Chiang Mai Array Site 3	
CM31	Chiang Mai Array Site 31	
CM32	Chiang Mai Array Site 32	
CM33	Chiang Mai Array Site 33	
CM34	Chiang Mai Array Site 34	
CM35	Chiang Mai Array Site 35	
CM36	Chiang Mai Array Site 36	
CM04	Chiang Mai Array Site 4	
CM05	Chiang Mai Array Site 5	
CM06	Chiang Mai Array Site 6	
CM07	Chiang Mai Array Site 7	
CM08	Chiang Mai Array Site 8	
CM09	Chiang Mai Array Site 9	
CRAI	Chiangrai	
CHRT	Chiangrai	
CMAI	Chiengmai2	
PHET	Kaeng Krachan	
KBR	Kanchanaburi	
KHLT	Khaolaem Dam	
KHT	Khao Laem Dam	
KHON	Khomkaen	
UBPT	Khong Chiam	
KKTK	Khon Kaen	
KRAB	Krabi	
LPT	Lampang	
LAMP	Lampang	
LOE	Loei	
LOEI	Loei	
MHMT	Maesarieng	
NST	Nakhon Sawan	
NAYO	Nakonayok	
SRIT	Nakonsritamarat	
PANO	Nakornpanom	
NANT	Nan	
NONG	Nongkai	
NNT	Nongplab	
PCT	Pak Chong	
PATY	Pattaya	
PAYA	Payao	
PHIT	Phitsanulok	
PHRA	Phrae	
PKT	Phuket	
PKDT	Phuket	
RNTT	Ranong	
PBKT	Sadao Pong	
SKNT	Sakolnakorn	
SNG	Songkhla	
SKLT	Songkhla	
SRAK	Srakaew	
SRDT	SRDT	
SUKH	Sukhothai	
SURT	Suratani	
SURA	Surathani	
TRTT	Trang	
UBT	Ubonrachathani	
UMPA	Umpang Tak	
UTHA	Uthaitani	
UTTA	Uttaradit	
Turkey		
ABT	Abant	
ADVT	Abdulvahap	
ADAT	Adana	
ADT	Adana	
AKO	Adana	
SAIM	ADANA	
AFSR	Af¯ar-Bala (Ankara)	
AFYO	Afyonkarahisar	
KZIL	AFYON_Kizioren	
DAGI	Agillar	
AGN	Agin	
AGRT	Agri	
KOTA	A¯r¯–/Merkez-Kocata¯	
KAHT	Ahir Dag	
AKCD	Akcadag	
AKC	Akcakoca	
AKDA	Akdag	
AKDM	Akdamar-Van	
AKS	Akhisar	
AKHS	Akhisar	
AKKT	Akkus	
AKKU	Akkuyu-Mersin	
AKK2	Akkuyu-Mersin	
AKK1	Akkuyu-Mersin	
AKSY	AKSARAY - Altinkaya	
AKTT	Aktoprak	
EAK	Akyaka	
AKY	Akyazi	
ALAN	Alanya-ANTALYA	
ALT	Altintas	
CUALT	Altinyayla-SIVAS	
MASR	Amasra-Bartin	
AMSY	Amasya-Merkez	
ANDN	Andirin	
ANK	Ankara	
DAD	Ankara	
ANTO	Ankara	
ANTB	Antalya	
KEPZ	Antalya-Kepez	
AKUM	Antalya-Kumluca	
ARPR	Arapgir-MALATYA	
ARMT	Armutlu	
ARST	Arsuz	
ARTV	Artvin	
ASAT	Asagicarikuru	
AVCI	Avcilar-¯stanbul	
AVNT	Avonos	
AYK	Aydincik	
DDIM	Ayd¯–n/Didim	
BAYT	Ayd¯–ntepe-Bayburt	
AYKD	Aykdinkavak	
AYS	Ayseler	
AYVA	Ayvalik	
DBAD	Bademkaya	
BKT	Bakacak	
HVHR	Bakirkoy-Istanbul	
BALAT	Bala	
BBAL	Bala	
BLCB	Balcova	
BALB	Balikesir	
KNL	Bal¯–kesir	
BUHA	Bal¯–kesir/Burhaniye-Dutluca	
STEP	BALIKESIR_Savastepe	
BALY	Balya	
BNT	Bandirma	
BTIN	Bart¯–n	
BASK	Baskale_VAN	
BASM	Basmak¯§i-Afyon	
BTMT	Batman	
BTMN	Batman	
BAYB	BAYBURT	
BBTK	Belbasi	
BRAR	Belbasi Array Beam Reference Point	
BR01	Belbasi Array Site 1	
BR02	Belbasi Array Site 2	
BR03	Belbasi Array Site 3	
BR31	Belbasi Array Site 31	BRAR
BR04	Belbasi Array Site 4	
BR05	Belbasi Array Site 5	
BR06	Belbasi Array Site 6	
BR00	Belbasi Site	BRAR
BLNT	Belen	
BERE	Bereket-Mersin	
BEST	Besiri	
BEYT	Beykoz	
BILE	Bilecik/Merkez-Dede RL	
BINT	Bingol	
BGOL	Bingol	
BNGL	BINGOL	
BNGB	Bing^¶l	
SLHN	Bing^¶l/Solhan-Merkez	
BTLK	Bitlis	
ADCV	BITLIS_Adilcevaz	
BLIS	Bitlis-Merkez	
BODT	Bodrum	
BGKT	Bogazkoy	
KIBS	BOLU	
BOLV	Bolvadin	
BCA	Borcka	
DBOC	Borcka	
KDAG	Bornova	
BOYT	Boyabat	
BYBT	Boyabat	
BOY	Boyalica	
BBRN	Bozburun-Marmaris	
BOZC	Bozcaada	
BOZD	Bozcaada-Canakkale	
BZK	Bozkurt	
ATAB	Bozova	
AUBOZ	BOZOYUK	
BOZY	Bozyazi-Mersin	
BCK	Bucak	
BNN	Bunyan	
BUCA	Burdur/Bucak-G^…ndo¯du	
BRDR	BURDUR-Merkez	
BRGZ	Burgazada	
BRGA	Burgazada-Istanbul	
IGD	Bursa	
BUY	Buyukada	
BASD	Buyukada	
BADT	Buyukada	
KRGZ	Buyukada	
BUYA	Buyukada-Istanbul	
KIZO	Buyukkizoglu-Ladik(Samsun)	
BYZN	Byzanz	
DNZL	Cakiroluk	
CLDR	Caldiran	
CMRD	Camardi-Nigde	
CAME	Cameli-Denizli	
CMDR	Camlidere-ANKARA	
CANB	Canakkale	
KOCA	^anakkale/Ayvac¯–k-Kocak^¶y	
BAYC	CANAKKALE_Bayramic	
ECEA	^anakkale/Eceabat-Seddulbahir	
CAND	Candarli	
CANT	Cankiri	
CTK	Catak	
CTTX	Catalca	
CTT	Catalca	
ELBA	Catalca	
ECAT	Cat-ERZURUM	
CAVTT	Cavuskoy	
CAVI	Cavuskoy	
CHAY	Cayeli-Rize	
CHOM	Cayeli-Rize	
CEM	Cemisgezek	
CESE	^e¯me	
CEYT	Ceyhan	
CDAG	Cicekdag	
CIFT	Cifteler, Eskisehir	
CHBY	Cihanbeyli	
SBT1	Cinarcik-Koru-Yalova	
CIN	Cine	
CRLT	Corlu	
CORM	Corum	
CTKT	Corum	
COAL	Corum-Alaca	
KAGI	^orum-Karg¯–	
CTAK	Corum_Osmancik	
CUKT	Cukurca	
CUND	Cunda Adasi-Balikesir	
BALT	Daday	
DALT	Dalyan (Mudla)	
DALY	Dalyan (Mu¯la)	
DARE	Darende-Malatya	
DAT	Datca	
DATC	Datca-Mugla	
DEMI	Demirci	
DDEM	Demirkent	
DKP	Demirkopru	
DMK	Demirkoy	
DMT	Demirtas	
DEMR	Demre-Antalya	
DENT	Denizli	
UZP	Denizli	
CAEL	Denizli/^ameli-Kal¯–nkoz	
TAVA	DENIZLI_Tavas	
DERT	Derbent	
DVR	Devrek	
DIDI	Didim-Aydin	
DKL	Dikili	
DIKM	Dikmen	
DYDN	Diyadin	
DIY	Diyarbakir	
DIYA	Diyarbakir	
DYBB	Diyarbakir	
HANI	Diyarbakir_Hani	
DRTT	Dortyol	
DORT	Dortyol-Hatay	
DGT	Duragan	
DURS	Dursunbey	
DST	Dursunbey	
DRB	Dursunbey	
YIGI	D^…zce	
EASY	Easy	
EDT	Edincik	EDC
EDC	Edincik	
EDRB	Edirne	
CAVK	Edirne/Enez-Cavuskoy	

Code	Station Name	Other
KESN	Edirne-Kesan	
BAGO	Egridir - ISPARTA	
ELA	Elazig	
ELZG	Elazig	
ELZ	Elazig	
KOVA	Elaz¯–¯/Kovanc¯–lar-Tepebag	
ELDT	Eldivan	
EATA	Eleskirt	
ELL	Elmali	
ENEZ	Enez	
ERBA	Erbaa	
ERCV	ERCIS-VAN	
ERCT	Erciyes	
ERD	Erdek	
MEST	Erdemli	
ERIK	Erikli-Kesan	
ERMK	Ermenek	
EZC	Erzincan	
ERZN	Erzincan	
KRDT	Erzincan	
ERZ	Erzurum	
ERZT	Erzurum	
EZM	Erzurum	
ERZM	Erzurum	
EMRE	Erzurum,Aziziye	
KRIK	Erzurum-¯spir	
ATA5	Erzurum, Merkez	
EJDE	Erzurum, Palandoken	
ERZC	Erzyncan	
SBT5	Esenkoy-Cinarcik-Yalova	
ESE	Esentepe	
BORA	Eskisehir	
ESKT	Eskisehir	
SGAZ	Eski¯ehir/Seyitgazi-Do¯anˆ§ay¯–r	
EYL	Eskiyayla	
SEYT	Eskypehyr	ESKT
ESPY	Espiye-Giresun	
EZN	Ezine	
FAT	Fatmalar	
FEKT	Feke	
FETY	Fethiye	
FETI	Fethiye-Mugla	
FOCM	Foˆ§a	
FUTB	Futbol	
GARD	Gard house	
SOFT	Gaziantep	
GAZ	Gaziantep	
GZT	Gaziantep	
GZTT	Gaziantep	
GZKV	Gazikoy-Tekirdag	
GAZI	Gazipasa	
GBZT	Gebze	
GEB	Gebze	
LAFA	Gebze-Kocaeli	
GEDT	Gedikpinar	
GEDZ	Gediz	
GDZ	Gediz	
GEMT	Gemlik	
GRDE	Gerede-Bolu	
GEVA	Gevas	
ALUC	Giresun/Alucra	
GRSN	GIRESUNGRSN	
GLHS	Glhisar (BURDUR)	
GOKC	Gokceada-Canakkale	
GOLH	Golhisar	
GOMA	Golmarmara-Manisa	
GLP	Golpazari	GPA
GPA	Golpazari	
GET	Gonen	
GONE	Gonen-Balikesir	
GYN	Goynuk	
GULA	Gulagac	
GULE	Gulek	
GULF	Gulfidan-Ladik(Samsun)	
GPNR	Gulpinar-Canakkale	
GULT	Gulveren	
GMLD	Gumuldur	
GUMT	Gumushane	
GDDT	Gundogdu	
GNYT	Guneyli	
CUGUR	Gurin_S¯VAS	
GURO	Guroymak-BITLIS	
SBT2	Guzelce-Avcilar-Istanbul	
GADA	Gvkgeada	
GCAM	G?zelcaml?	
HDMB	Hadim	
HKR	Hakkari	
HAKT	HAKKARI	
YOVA	Hakkari_Yˆ…ksekova	
HKOY	Hamitkoy-Ladik(Samsun)	
AGRB	Hanur-Agry	
HTY	Hatay	
HAVZ	Havza	
HENT	Hendek	
HRT	Hereke	
HRTX	Hereke-Izmit	
HYBL	Heybeliada	
HYBA	Heybeliada-Istanbul	
HIS	Hisarcik	
HOMI	Horasan	
IGDI	IGDIR	
ILGA	Ilgaz	
ILIC	ilic-Erzincan	
IKL	Isikli	
COBT	Iskenderun	
ISP	Isparta	
YVAC	Isparta/Yalvaˆ§-ˆzgˆ…ney	
EISP	Ispir	
IST	Istanbul	
IST1	Istanbul	
ITU	Istanbul	
ISK	Istanbul-Kandilli	
URLA	Izmir	
IZM	Izmir	
ZEY	¯zmir	
DGB	¯zmir	
ZEDA	¯zmir-Bergama	
ZEYE	¯zmir/Urla-Zeytineli	
IZN	Iznik	
IZI	Iznik	
KDHN	Kadinhani	
KMRS	Kahramanmaras	
HCB	Kahramanmara¯	
KAHM	Kahramanmara¯/Dulkadiro¯lu	
ELBS	KAHRAMANMARAS_ Elbistan	
KAMT	Kaman	
KAVV	Kandilli-Istanbul	
KND	Kandira	
CUKAN	kangal_SIVAS	
KGT	Karabiga	
KRBG	Karabiga-Canakkale	
KBUK	KARABUK-Merkez	
KRBN	Karaburun	
KCT	Karacabey	
KCTX	Karacabey (Bursa)	
SVSK	Karacayir	
EKAR	Karacoban	
KDE	Karadeniz	
KDZE	Karadeniz Ereoli	
KHAL	Karahalli	
KHL	Karahalli	
KARA	Karaisali	
KRMN	Karaman	
KKBE	Karaman7Kaz¯–mkarabekir	
KMS	Karamursel	
KRTS	Karatas	
KRTD	Karatas-Adana	
KART	Kargi	
KARG	Kargicak-Mersin	
KARO	Karliova-Bingol	
KARS	Kars	
DIGO	Kars	
AKAS	Kas	
PELI	Kastamon¯–-Araˆ§	
KMON	Kastamonu	
KAS	Kastamonu	
KAST	KASTAMONU	
CIDE	Kastamonu/Cide-Merkez	
KVT	Kavak	
BDRM	Kayabasi	
KAYA	Kayacik-Havza(Samsun)	
KYR	Kayrak	
GUNE	Kayseri	
YAHY	KAYSERI_Yahyali	
KEB	Keban	
KEBE	Keben-Mersin	
KEKT	Kekliktepe	
KELT	Kelkit	
KLT	Keltepe	
KEMA	Kemaliye	
KEMT	Kemer-ANTALYA	
BRTR	Keskin Array Beam Reference Point	
BR101	Keskin Array Site 101	
BR102	Keskin Array Site 102	
BR103	Keskin Array Site 103	
BR104	Keskin Array Site 104	
BR105	Keskin Array Site 105	
BR106	Keskin Array Site 106	
BR131	Keskin Array Site 131	BRTR
BRMAR	Keskin MP Array Beam Reference Point	
BR231	Keskin MP Array Site 231	BRMAR
BR232	Keskin MP Array Site 232	
BR233	Keskin MP Array Site 233	
BR234	Keskin MP Array Site 234	
BR235	Keskin MP Array Site 235	
BR236	Keskin MP Array Site 236	
BR237	Keskin MP Array Site 237	
CTKS	Kestanelik-??atalca	
KLYT	Kilyos	
KNAL	Kinaliada	
KRCT	Kiractepe	
KRH	Kirikhan	
DELI	KIRIKKALE	
AUKIR	K¯–rka- Seyitgazi ESKISEHIR	
KIRK	K¯–rklareli	
ARMN	K¯–rklareli/Merkez-Arma¯an	
VIZE	K¯–rklareli/Vize-Akp¯–nar	
KIRS	K¯–r¯ehir-Merkez	
KIZT	Kizilcal	
KAND	Kocaeli-Kandira	
KOL	Kolay	
ALIN	Konya/Alt¯–ntekin	
DOGA	KONYA_Doganhisar	
KERG	Konya-Eregli	
KKUL	Konya-Kulu	
KMER	Konya-Meram	
SEDI	Konya/Seydi¯ehir-Tara¯§¯–	
KONT	Konya--Tatoy	
KOPT	Kop Dagi	
KOPR	Koprukoy-ERZURUM	
KORT	Korkueli	
KORK	Korkuteli	
KOZTB	Kozan	
KOZT	Kozan	
KULA	Kula-Manisa	
KULU	Kulu	
SBT4	Kumbag-Tekirdag	
MARK	Kumluca	
KUPE	Kupecik-Ladik(Samsun)	
KRTT	Kurtkulagi	
KURC	Kurucasile-Bartin	
KUSD	Kusadasi-Aydin	
KUTH	Kutahya	
AUKUT	KUTAHYA	
ANDZ	Kˆ…tahya/Merkez-And¯–z	
KUZU	Kuzuini	
LADK	Ladik-KONYA	
LPK	Lapseki	
LOD	Lodumlu	
MYA	Malatya	
MALT	Malatya	
MLTT	Malatya	
HEKM	Malatya_Hekimhani	
MLAZ	Malazgirt-MUS	
MNVG	Manavgat-Antalya	
MANT	Manisa	
MARD	Mardin	
MIDY	Mardin/Midyat-Merkez	
MRMT	Marmara Adasi	
BOTS	Marmara Ereglisi-Tekirdag	
SBT3	Marmara-Ereglisi-Tekirdag	
SB02	Marmara Sea	
MRSB	Marmaris-Mugla	
MAR2	Marsite Station 2 Hoskoy	
MAR4	Marsite Station 4	
MAR8	Marsite Station Cinarli Koyu	
MAR3	Marsite Station Guzelkoy	
MAR6	Marsite Station Kirazli	
MAR9	Marsite Station Marmara Adasi	
MAR7	Marsite Station Mursalli	
MAR5	Marsite Station Ucmakdere	
MRTI	Martiadasi	
MAZI	Mazidag	
MGN	Mengen	
DED	Mersin	
KIZK	Mersin	
MERS	Mersin	
GULN	MERSIN_Gulnar	
AUMIH	MIHALICIK	
MLSB	Milas	
MDNY	Mudanya-Bursa	
MDU	Mudurnu	
MUT	Mudurnu	
MDUB	Mudurnu	
MULA	Mu¯la/Merkez-¯kizce	
MRFT	Murafatepe	
MFT	Murefte	
MUSM	Mu¯-Merkez	
NAL	Nallihan	
KHMN	Narli-Kahramanmaras	
NART	Narlikuyu	
AVNS	Nevsehir-Avanos	
BSTP	Nigde	
NIG	Nigde	
NIDE	Nigde/Merkez-Gumusler	
NRTH	North beach	
OILH	Oil house	
EOLT	Oltu	
ORDU	Ordu-Boztepe	
OREN	Orenkoy-Mersin	
ORLT	Orhaneli	
ORH	Orhaniye	
KAMA	Osmaniye	
OSMT	Osmaniye	
PLU	Palu	
PZAR	Pazar-Rize	
PERT	Persembe	
PRSB	Persembe-Ordu	
PTK	Pertek	
PIRH	Pier house	
PINB	Pinarbasi	
PHSR	Pinarhisar	
EPOS	Posof	
POWD	Powder case	
RAM	Raman	
REFA	Refahiye_ERZ¯NCAN	
RSDY	Resadiye-TOKAT	
REYT	Reyhanli	
SAFT	Safranbolu	
GEYV	SAKARYA_Geyve	
SAHE	Sakarya_HENDEK	
KAYN	Sakarya/Kaynarca-Ta¯oluk	
SMDT	Samandagi	
SAMS	Samsun-Alacam	
SANL	SANLIURFA_Merkez	
SURC	SANLIURFA_SURC	
SPNC	Sapanca-Adapazari	
SHAP	Saphane-Kutahya	
SARI	SarD1z-Kayseri	
SRCK	Saricakaya, Eskisehir	
CUSAR	Sarkisla-SIVAS	
RKY	Sarkoy-Tekirdag	
SAY	Sayfiye	
SCRP	Scyscraper	
SEMD	Semdilli	
SENK	Senkaya-Erzurum	
SAUV	Serdivan-Sakarya	
SERE	Sereflikochisar	
SGT	Sevinc	
SYT	Seydisehir	
SEYD	Seydisehir-KONYA	
SHTH	Shelter house	
SRTM	Siirt_Merkez	
PERV	Siirt/Pervari-Merkez	
SILT	Sile	
SLF	Silifke	
SLFK	Silifke-Mersin	
SILI	Silifke-Mersin	
SLVT	Silivri	
SVAN	Silvan-Diyarbakir	
SIMA	Simav-Kutahya	
SMAA	Simav-Kutahya	
SINB	Sinanoba-Istanbul	
SNOP	Sinop	
SINP	Sinop	
BOYA	Sinop/Boyabat-Salar	
SINO	SINOP_Merkez	
SIRT	Sirnak	
SIRN	S¯–rnak	
SVST	Sivas	
SVRC	Sivrice-ELAZID	
SGKT	Sivrigoynuk	
AUSIV	SIVRIHISAR	
SVRH	Sivrihisar-ESKISEHIR	
SCER	sogukcermik	
SHUT	Suhut-Afyon	
SULT	Sultanhani-AKSARAY	
ENZZ	Sultanice-Enez-Edirne	
SUSE	Susehri	
SLK	Susurluk	
SUTC	Sutluce-Isparta	
TAHT	Tahtakopru-Hatay	
TASB	TASBURUN-IGDIR	
BTAS	Taskesti	
TST	Taslik	
AYDN	Tasoluk	
TATV	Tatvan	
TVSB	Tavsanli	
GELI	Tayfur-Gelibolu	
TEKE	Tekeli-Mersin	
TKR	Tekirdag	
SART	Tekirdag	
TDAG	Tekirdag	
TKTP	Tekketepe	
TEPE	Tepekoy-Mersin	
TEPK	Tepekoy-MERSIN	
TRML	Termal-Yalova	
TSVK	Tesvikiye-Yalova	
TEVE	Tevekalti-Mersin	
TISA	Tisan-Mersin	
TOKT	Tokat	
TOKA	Tokat	
TTK	Tokmak	
BTOK	Tokmak	
TOS	Tosya	
TBZ	Trabzon	
KTUT	Trabzon	
MACK	Trabzon	
TNC	Tunceli	
TNCL	Tunceli-Merkez	
TRHT	Turhal	
TRKT	Turkoglu	
TURN	Turunc	
TUTA	Tutak	
TUZL	Tuzla-Istanbul	
ULDT	Uludag	
URFA	Urfa	
USAK	U¯ak-Merkez	
UZU	Uzumlu	
EUZM	Uzumlu	
UKOP	Uzunkopru-Edirne	
VANT	Van	
TVAN	Van	
VANB	Van	
VNT	Van	
VMUR	Van-Muradiye	
OZAP	Van/¯zalp-Merkez	
VRT	Varto	
VRTB	Varto-Mus	
VEZ	Vezirkopru	
YKBL	Yakuplu-Istanbul	
YKAV	Yalikavak-Bodrum	
KIYI	Yal¯–koy-Catalca	
CTYL	Yalikoy Yolu	
YLVH	Yalova	
YLV	Yalova	
CFTB	Yalova	
YAMN	Yamanlar	
YARM	Yarimca-Ladik(Samsun)	
YAYL	Yayladag	
YAYX	Yaylak	
YEDI	Yedisu-Bingol	
YELT	Yellice	
BCAM	Yenicaga	
YER	Yerkesik	
YESI	Yesilovacik-Mersin	
YESY	Yesilyurt	
MUGL	Yilanlidag	
YORU	Yoruktepe-Mersin	
YOZ	Yozgat	
SIRC	Yozgat	
CKRK	Yozgat/ˆekerek-Merkez	
YUMT	Yumurtalik	
YURE	YUREGIR	
YUVA	Yuva-Kibriscik (Bolu)	
CUZAR	Zara_SIVAS	
AYDB	Zeytinkoy-Aydin	
ZGT	Zonguldak	
DEVR	Zonguldak/Devrek-Atalar	
KMST		
ANTT		

Turkmenistan

ABKT	Ailbek	
GEYT	Alibeck	
GYA0	ALIBECK ARRAY SITE A0	
GYA0B	ALIBECK ARRAY SITE A0B	
GYA1	ALIBECK ARRAY SITE A1	
GYA2	ALIBECK ARRAY SITE A2	
GYA3	ALIBECK ARRAY SITE A3	
GYB1	ALIBECK ARRAY SITE B1	
GYB2	ALIBECK ARRAY SITE B2	
GYB3	ALIBECK ARRAY SITE B3	
GYB4	ALIBECK ARRAY SITE B4	
GYB5	ALIBECK ARRAY SITE B5	
ASHT	Ashkhabad	
ASH	Ashkhabad	
BAT	Bayram-Ali	
CAGT	Chagyl	
CHDS	Charjew	
GARG	Garrygala	
GAUS	Gevers	
GZLA	Gyzyletrek	
KAH	Kaushut	
KAT	Kizyl-Arvat	
KRF	Krasnovodsk	
MNYS	Manysh	
MRY	Mary	
NBD	Nebitdag	
VAN	Vannovskaya	

United Arab Emirates

Abu Dhabi

AJN	Ajban
MZR	Muzera

Fujairah

UOSS	Minazif

Umm Al-Quwain

UMQ	Umm Al-Quwin
ALNE	Al Ain
ASUD	Al Ashush, Dubai
FAQ	Al Faqa, Dubai
MSFE	Esma-Masafi
HATD	Hatta, Dubai
NAZ	Nazwa, Dubai
SHME	Shamm

Uttar Pradesh

BRCH	BAHRAICH

Uzbekistan

AGL	Agalyk
ANR	Andizhan
ANE	Angren
AUR	Aurakhmat
CHET	Chet-Su
DZN	Dzhankel'dy
DZI	Dzhizak
FRG	Fergana
GAY	Galvasay
KDK	Khodzhikent
KLKU	Kulkuduk
KUMR	Kumaryk
LNC	Lunacharskoye
NAM	Namangan
NAP	Napay
NUKS	Nukus
NUT	Nurata
SAM	Samarkand
TMD	Tamdy-Bulak
TAS	Tashkent
YNGY	Yangiyul

Vietnam

Code	Station Name	Other
BCVB	Bac Can	
BGV	Bac-Giang	
BVV	Ba Vi	
CBVB	Cao Bang	
CKVB	Chieng Khoang	
CLVV	Chieng Lao	
CTVN	Chua Tram	
CCVB	Con Cuong	
MUVB	Co Noi	
DBV	Dienbien	
DHV	Doan Hung	
DSV	Doi Son	
HGVB	Ha Giang	
HNV	Hanoi	
HBV2	Hoa Binh	
HBVN	Hoa-Binh	
HUV	Hue	
MLVB	It Ong	
KSVV	Ky Son	
LUV	Laichau	
LCVN	Lai Chau	
LAVN	Lang Chanh	
LNVN	Lang Ngam	
LSVB	Lang Son station	
MTZV	Met	
MCVV	Moc Chau	
MLAV	Muong La station	
NTV	Nha Trang	
NHA	Nha-Trang	
PLV	Phu-Lien	
NCV	Pung Luong	
SPV	Sa-pa	
SLVN	Son La	
BMV	Son La	
DLV	T a@11 Lat	
DLVO	T a@11 Lat	
TDV	Tam Dao	
THV	Thanh Hoa	
TIYB	Tien Yen	
TTVN	Tram Tau	
TGV	Tuan Giao	
TLV	Tu Ly	
TQV	Tuyen-Quang	
VIVB	Vinh	
VIV	Vinh	
VTVB	Vinh Tuy	
YTV	Yen Tu	
Yemen		
ADEN	Aden	
RADA	Ahram - Rada'a city Al-Baydha Gov. - Yemen	
BDHA	Al Bayda'	
MUKL	Al Mukalla	
MUKH	Al Mukha	
UDYN	Al 'Udayn	
ATAQ	'Ataq	
TRBA	At Turbah	
DHBB	Dhama@18r BB	
DHMR	Dhamar	
DAMY	Dhamar	
ERIN	Erian - IBB Gov. - Yemen	
HAJJ	Hajjah	
HRAD	Harad	
HNSH	Hunish Island	
ADDN	Jabal Ad Dan - Dhamar Gov. - Yemen	
KAMRY	Kamaran Island	
MNKH	Manakhah	
MARB	Ma'rib	
SADA	Sad'ah	
SANA	San'a	
SYON	Say'un	
SOCY	Socotra	
SMRH	Sumara - IBB Gov. - Yemen	
TAIZ	Ta'izz	
ZBID	Zabid	
ZUQR	Zugar Island	
ZQRN	Zuqar Island	
LBOS		

ATLANTIC OCEAN/ARCTIC OCEAN

Ascension		
ASCN	Ascension	
H10N1	ASCENSION HYDROACOUSTIC SITE N1	
H10N2	ASCENSION HYDROACOUSTIC SITE N2	
H10N3	ASCENSION HYDROACOUSTIC SITE N3	
H10S1	ASCENSION HYDROACOUSTIC SITE S1	
H10S2	ASCENSION HYDROACOUSTIC SITE S2	
H10S3	ASCENSION HYDROACOUSTIC SITE S3	
ASH19	Ascension Island Hydrophone Array Site 19	
ASH21	Ascension Island Hydrophone Array Site 21	
ASH23	Ascension Island Hydrophone Array Site 23	
ASH24	Ascension Island Hydrophone Array Site 24	
ASH25	Ascension Island Hydrophone Array Site 25	
ASH26	Ascension Island Hydrophone Array Site 26	
ASH27	Ascension Island Hydrophone Array Site 27	
ASH29	Ascension Island Hydrophone Array Site 29	
I50GB	ASCENSION ISLAND INFRASONIC ARRAY REFERENCE POINT	
Bermuda		
BBSR	BB Station	
BEC	Bermuda--Columbia	
I51GB	BERMUDA INFRASONIC ARRAY REFERENCE POINT	
BEN	Bermuda-Navy	
PSBMU	Warwick Parish	
Faeroe Islands		
FHV	Haldarsvik	
SOFL	Sornfelli, Faroe Islands	
FSD	Sut uroy	
FSV	Svinoy	
FTO	Torshavn	
FVA	Vagar	
Falkland Islands		
EFI	East Falkland Island	
FLK	Falkland Islands	
PSF	Port Stanley	
Greenland		
ASIG	Aasiaat, Greenland	
ASSG	Aftenstjerne Lake, Greenland	
ANGG	Ammassalik, Greenland	
CCG	Camp Century	
CFJ	Citronen Fjord	
DBG	Daneborg	
DAG	Danmarks Havn	
FFBG	Frank Field Bay, Greenland	
GDH	Godhavn	
HJO	Hjoernedal	
IC-GL	Ice Cap	
IC-	Ice Cap	IC-GL
IS2	Icelocation 2	
ILULI	Ilulissat	
ILUG	Ilulissat, Greenland	
ILG	Inge Lehmann	IC-GL
ISOG	Isortoq, Greenland	
IVI	Ivigtut	
KAGG	Kagssortoq	
SF2	Kangerlussuaq 2	
SFJD	Kangerlussuaq 2	
KTG	Kap Tobin	
KULLO	Kullorsuaq	
KULG	Kulusuk, Greenland	
NRS	Narsarsuaq	
NOR	Nord	
NEEM	North Greenland Eemian Ice Drilling site	
NGR	North Grip Drilling Camp	
NUUG	Nuugaatsiaq	
PAAG	Paamiut	
I18DK	QAANAAQ INFRASONIC ARRAY REFERENCE POINT	
RYL	Rypely	
SA1G	Sarfartoq 1, Greenland	
SA2G	Sarfartoq 2, Greenland	
SA3G	Sarfartoq 3, Greenland	
SA4G	Sarfartoq 4, Greenland	
SCO	Scoresbysund	
SISG	Sisimiut, Greenland	
SOEG	Soedalen	
SFJ	Sondre	
SUMG	Summit	
THULE	Thule	
TULEG	Thule	
TE-	Thule	TE-GL
THU	Thule	
TE-GL	Thule	
UPNG	Upernavik	
UMM	Uummannaq	
Iceland		
IASB	A@15sbjarnarstat ir	
AKU-	Akureyri	
AKU	Akureyri	
IALF	Alftagrof	
IADA	Aoalbol	
IASK	Askja	
IASM	Asmuli	
IASO	Asolfsskalaheidi	
IAUS	Austmannsbunga	
IBJA	Bjarnastaoir	
BORG	Borgarnes	
IBRE	Brettingsstaoir	
IBRU	Bruarjokull	
IDIM	Dimmadalsˆ¡s	
IDYN	Dyngjuhals	
DJK	Dyngjujokull	
EGI	Egilsstadhir	
IENT	Enta	
IESK	Eystri-Skogar	
IFAG	Fagurholsmyri	
IFED	Fedgar	
IFLA	Flatey	
IGIL	Gilhagi	
IGLU	Glumsstadir	
IGOD	Go??abunga	
IGRA	Granastaoir	
IGRI	Grimsey	
IGRF	Grimsfjall	
IGRS	Grimsstaoir	
IGRV	Grindav??k	
IGHA	Grjothals	
IGHS	Grjothals	
IGYG	Gygjarholskot	
IHAE	Haedir	
HAH	Hahryggur	
IHAU	Haukadalur	
IHEI	Heioarbar	
IHLA	Hella	
IHED	Heoinshofoi	
IHRN	Hraun	
IHUS	Husbondi	
IHVA	Hvannstoosfjoll	
IHVE	Hveravellir	
IJOK	Jokulheimar	
IKAS	Kald??rsel	
IKAL	Kalfafell	
IKSK	Karasker	
IKRE	Kreppuhraun	
IKVO	Krokottuvotn	
IKRO	Krokur	
IKRI	Krysuvik	
IKUD	Kuludalsa	
IHVO	Lagu-Hvolar	
ILEI	Leirhofn	
LJO	Ljotipollur	
IMEL	Melhnausar	
IMID	Miomork	
IMJO	Mjoaskard	
IMKO	Mokollar	
INYL	Nylenda	
IRNE	Reykjanes	
REY	Reykjavik	
IREN	Reynihlio	
IRJU	Rjupnafell	
ISAN	Sandskeio	
ISAU	Saurbar	
SID	Sida	
ISIG	Siglufjorour	
ISKI	Skildingahˆ‡lshraun	
ISKR	Skrokkalda	
ISLY	Slysaalda	
ISMJ	Smjorgil	
ISNB	Snabyli	
ISOL	Solvholt	
ISVA	Svartarkot	
IVAT	Vatnsfell	
IVME	Vestmannaeyjar	
IVES	Vestmannaeyjar	
VIK	Vik	
IVOG	Vogar	
IVOS	Vogsosar	
IVON	Vonarskard	
IVOT	Vottur	
IVSH	V-Sauoahnukur	
Saint Helena		
SHEL	Horse Pasture	
SHLN	Saint Helena Island	
South Georgia Islands		
HOPE	Hope Point	
KEP	King Edward Point	
Tristan da Cunha		
TRIS	Tristan da Cunha	
I49GB	TRISTAN DA CUNHA ISLAND. INFRASONIC ARRAY REFERENCE POINT	
H09N1	TRISTAN DA CUNHA T-PHASE SITE N1	
H09W1	TRISTAN DA CUNHA T-PHASE SITE W1	
TDC1	Tristan de Cunha	

AUSTRALASIA

Australia		
BRSB	Brisbane	
Australian Capital Territory		
RNDA	Aranda	
CAN	Canberra	
CNB	Canberra Magnetic Observatory	
AUDAR	Daramalan College	
KMBH	Kambah	
KOW	Kowen Forest	
AUMHS	Melrose High School	
AUMTS	Mt Stromlo	
AUSIS	Research School of Earth Sciences	
Macquarie Islands		
MCQ	Macquarie Island	
MQI	Macquarie Island	
New South Wales		
ARMA	Armidale	
AVO	Avon	
BWA	Boorowa	
BUDM	Budderoo	
BJEM	Burrinjuck	
BJDM	Burrinjuck Dam	
CBR	Cabramurra	
CAB	Cabramurra	
CAH	Castle Hill	
CTBM	Cataract Bedrock	
CTDM	Cataract Dam	
CAVM	Cavillon	
CHAM	Chaffey Accelerograph	
CHFM	Chaffey Dam	
CMSA	Cobar Meteorology Station	
CMS	Cobar Meteorology Station	
EPSO	Coonabarabran	
COO	Cooney Tunnel	
COPM	Copeton	
CKWL	Crookwell	
DLN	Dalton (NSW)	
AUDCS	Dubbo College Senior Campus	
EUGM	Eugowra	
FTZM	Fitzroy Falls	
GEE	Geehi	
GBBM	Glenbawn Bedrock	
GBAM	Glenbawn Dam	
GLNM	Glennies Creek Dam	
GRVM	Greaves Creek	
GUND	Gundaroo	
HLA	Hall's Lagoon	
IVY	Inveralochy	
INV	Inveralochy	
IVN	Inveralochy	
JBRM	Jenolan Black	
JNL	Jenolan Caves	
JIN	Jindabyne	
KANM	Kanangra Walls	
KPTM	Keepit Bedrock	
KPAM	Keepit Dam	
KHA	Khancoban	
AUKHS	Kincumber High School	
KTLM	Kings Tableland	
WOOD	Lake Woodford	
LER	Lerida	
LBXM	Letterbox	
AULRC	Lightning Ridge Central School	
LTGO	Lithgow	
LHI	Lord Howe Island	
LOSM	Lostock Dam	
LHBM	Lucas Heights	
MGCD	Mangrove Creek Dam	
MKPT	Marks Point, NSW, Australia	
MEG	Meangora	
MILA	Mila	
AUMAG	Moama Anglican Grammar School	
MEA	Monteagle	
MBA	Mount Bingar	
CPXM	Mount Cotopaxi	
AUMUL	Mullumbimby High School	
NARM	Nariel	
NATM	Nattai	
NTLH	Newcastle Hard Rock	
NTLS	Newcastle Soft Rock	
ORNG	Orange	
AUPHS	Peel High School	
PHDM	Pipehead	
REDH	Redhead, NSW Australia	
RIV	Riverview	
SBR	S Black Range	
AUSMG	Snowy Mountains Grammar School, Jindabyne	
SPRM	Split Rock	
STK	Stephens Creek	
STKA	Stephens Creek	
SWAN	Swansea	
DNSO	Sydney	
SYD	Sydney	
SYDH	Sydney Hard Rock	
SYDS	Sydney Soft Rock	
TAO	Talbingo	
TLNG	Tallong	
TALM	Tallowa	
TALL	Tallowa Pump Stn	
AUTKS	The King's School, Parramatta	
TPND	Tumut Pond Dam	
AUUHS	Ulladulla High School, Ulladulla	
WAM	Wambrook	
WGBM	Warragamba	
WDBM	Warragamba Dam	
WER	Werombi	
WOLH	Wollongong Hard Rock	
WRNM	Woronora	
WYA	Wyangala	
YERM	Yerranderie	
YOU	Young	
YNG	Young	
Norfolk Island		
NRFK	Norfolk	
NFK	Norfolk Island	
NIA	Norfolk Island	
Northern Territories		
AUDHS	Darwin High School	
AUKAT	Katherine High School	
AUNHS	Nhulunbuy High School	
Northern Territory		
ASP	Alice Springs	
ASPA	Alice Springs	
ASAR	Alice Springs Array Beam Reference Point	
AS01	Alice Springs Array Site 1	
AS10	Alice Springs Array Site 10	
AS11	Alice Springs Array Site 11	
AS12	Alice Springs Array Site 12	ASAR
AS13	Alice Springs Array Site 13	
AS14	Alice Springs Array Site 14	
AS15	Alice Springs Array Site 15	
AS16	Alice Springs Array Site 16	
AS17	Alice Springs Array Site 17	
AS18	Alice Springs Array Site 18	
AS19	Alice Springs Array Site 19	
AS02	Alice Springs Array Site 2	
AS03	Alice Springs Array Site 3	
AS04	Alice Springs Array Site 4	
AS05	Alice Springs Array Site 5	
AS06	Alice Springs Array Site 6	
AS07	Alice Springs Array Site 7	
AS08	Alice Springs Array Site 8	
AS09	Alice Springs Array Site 9	
AS31	Alice Springs Site	
DAR	Darwin	
DPH	Darwin Parliament House	
DRS	Darwin Rock Store	
KAKA	Kakadu	
KDU	Kakadu	
KATH	Katherine N.T. Australia	
MTN	Manton Dam	
WRAB	Tennant Creek	
WB1	Warramunga Ar.	
WCB	Warramunga Array	
WRB	Warramunga Array	
WRA	Warramunga Array Beam Reference Point	
WB0	Warramunga Array Site B0	
WB2	Warramunga Array Site B2	
WB3	Warramunga Array Site B3	
WB4	Warramunga Array Site B4	
WB5	Warramunga Array Site B5	
WB6	Warramunga Array Site B6	
WB7	Warramunga Array Site B7	
WB8	Warramunga Array Site B8	
WB9	Warramunga Array Site B9	
WC1	Warramunga Array Site C1	
WC2	Warramunga Array Site C2	
WC3	Warramunga Array Site C3	
WC4	Warramunga Array Site C4	
WR0	Warramunga Array Site R0	
WR1	Warramunga Array Site R1	
WR2	Warramunga Array Site R2	
WR3	Warramunga Array Site	

R3
WR4 Warramunga Array Site R4
WR5 Warramunga Array Site R5
WR6 Warramunga Array Site R6
WR7 Warramunga Array Site R7
WR8 Warramunga Array Site R8
WR9 Warramunga Array Site R9
I07AU WARRAMUNGA INFRASONIC ARRAY REFERENCE POINT
WRAI Warramunga Infrasound Array Beam Reference Point

Queensland
AWOON Awoonga Dam
AWDQ Awoonga Dam 3
AUAYR Ayr State High School
BEEN Beenleigh
AUBSH Beerwah State High School
BOON Boondooma
BDMQ Boondooma Dam
BW2S Bowen Soft Rock
BRS Brisbane
BN2S Brisbane 2 Soft
BR1 Brisbane hardrock
BN1H Brisbane Hard Rock
BR2 Brisbane softrock
BSLQ Bruslee
WBAQ Buaraba 3
BURD Burdekin Lookout
CN1H Cairns Hard Rock
CNS1 Cairns-h seis/acc
CN2S Cairns Soft Rock
AUCSH Cairns State High School
CTA Charters Towers
CTAO Charters Towers CTA
CHIL Chillagoe
COEN Coen
CVLQ Collinsville
DLBQ Dalbeg
DNGQ Doongara
EASTN East End Reserv.
EIDS Eidsvold
FAIR Fairbairn
FGTQ Fig Tree
FS03 Four Seasons
FRED Fred Haigh
GLADS Gladstone Plant
GD1S Gladstone Soft Rock
BGRQ Glenroy
GC1S Gold Coast 1 Soft
GC2F Gold Coast 2 Fill
GC2 Gold Coast Softrock
GC1 Gold Cst Hrdrock
HINZ Hinze Dam
KDA Kuranda
WMBQ Mount Brisbane
MCPQ Mount Cooper
MHPQ Mount Hope
QIS Mount Isa
ISQ Mount Isa
MORG Mount Morgan
MTSU Mount Surprise
AUMOU Moura State High School
AUNRC North Rockhampton State High School
PETE Peter Faust Dam
PDDM Pindari Dam
WPMQ Pine Mountain
QLP Quilpie
WRCQ Reedy Creek 5
RK1 Rhampton Hrock
RK2 Rhampton Srock
RK2S Rockhampton 2 Soft
RK1H Rockhampton Hard Rock
RMQ Roma
RTQ Roma
RDSS Rosedale State School
WTRQ Thallon Road
TINA Tinaroo
WTGQ Toogoolawah
WOOM Toowoomba
TW1H Toowoomba 1 Hard
AUTOO Toowoomba State High School
TVL Townsville
TV1H Townsville Hard Rock
TV2S Townsville Soft Rock
UKAQ Ukalunda
AUWSH Wavell State High School
WWHQ Wivenhoe Hill 3
WPA Woody Point

South Australia
ADE Adelaide
ARKL Arkaroola
BBOO Buckleboo
CLV Cleve
AUCAS Cummins Area School
EDO Endilloe
GLEN Glenside
GHSS Government House
HTT Hallett
HML1 Hamley Bridge
HKER Hawker
HWKN Hawk's Nest
HKN Hawks Nest
HMV1 Hindmarsh Valley
INKA Innaminka
ILN Island Lagoon
JMS1 Jamestown
AUJCS Jamestown Central School
KELC Kelly Hill Caves
LCRK Leigh Creek
LBTL Lobethal
AUMAR Marden Senior College
MPTV Morphett Vale
MGBR Mount Gambier
MRAT Mt Rat
MULG Mulgathing
MYLR Mylor
MYP Myponga
NAPP Napperby
NBK Nectar Brook
OOD Oodnadatta
PLMR Palmer
PARN Parndana
PNA Partacoona
PBR1 Peterborough
PTPS Port Pirie
AURMK Renmark High School
ROBE Robe
RPA Roopena
AUROX Roxby Downs High School
SDAN Sedan
SNL Sevenhill
STR2 Strathalbyn
UTT Tea Tree Gully
TWOA Tennyson Woods
THS The Heights School
TPSO The Peters Seismological Observatory
UMB Umberatana
WHYH Whyalla
WKA Willalooka
FR27 Wilpena Pound
WSA Woomera
YE6 Yeelanna, site6

Tasmania
BNE Burnie High School
CORO Coronation Park
GEES Gees Lookout
GLAD Gladstone
FNT Hobart
I05AU HOBART INFRASONIC ARRAY REFERENCE POINT
MARG Lake Margaret
MIKA Lake Mikany
LMT Lemonthyme
AULHS Lilydale High School, Lilydale
MOO Moorlands
CLAW Mount Claude
NELS Mount Nelson
MTRD Mount Read
POAT Poatina
QTN Queenstown
SVR Savage River
SAV Savannah
SPK Scotts Peak
SFF Sheffield
STG Strathgordon
STGV Strathgordon Vge
AUTAR Taroona High School, Taroona
TRR Tarraleah
LEAH Tarraleah
TAU Tasmania University

Victoria
ABEM Aberfeldy
BRAT Ballarat
BANM Bannockburn
BFD Bellfield
BOV Bogong Mts
BRWK Brunswick
BUV Buchan
BUCN Buchan
BUCM Buckrabanyule
CCRM Cairn Curran
CDNM Cardinia
GEAM CSIRO Animal Health Laboratory
DRT Dartmouth
DDBM Dartmouth Bedrock
DDCM Dartmouth Crest
DTMM Dartmouth Digital
GEXS Deakin University, Geelong
DVBM Devilbend
DRAM Dora Dora
DROM Dromana
FSHM Fish Creek
FRTM Forrest
GLMM Glenmaggie
GVL Greenvale
AUHPC Hawkesdale P12 School
HEXM Hexham
HUMM Hume Dam
IVSM Inverness
JENM Jeeralang Junction
AUKSC Keysborough Secondary College
KOWM Kowarra
LGTM Lightning Creek
MACM Macedon
MEL Melbourne
MITM Mitta Mitta
MLWM Molesworth
MDRM Moondarra Dam
MPDM Moonee Ponds
ARPS Mount Arapiles
HOPM Mount Hope
MTV Mount Tassie
MTLM Mount Tassie Tower
AUMTC Mt Clear College-Earth Ed
GOGM North Grampians
ROYM Rob Roy
ROKL Rocklands
ROKM Rocklands Reservoir
AURSC Rosebud Secondary College
LYNN Rosslynne Res.
ROWM Rowsley
RUSM Rushworth
AUSSC Sale College, Sale
MLBS Spotswood, Melbourne
SHYM Surrey Hills
TATM Tatong
TECM TEC LaTrobe
TOMM Thomson
TOO Toolangi
WILL Willung South

West Australia
AUBUS Georgiana Molloy Anglican School, Busselton
AUKAL John Paul College, Kalgoorlie
AUKUL Kulin High School, Kulin
AUMAZ Mazenod Senior College, Perth
AUHAR St Anne's School, Harvey
AUALB St Joseph's College, Albany
AUKAR St Luke's College, Karratha
AUCAR St Mary Star of the Sea, Carnarvon

Western Australia
BLDU Ballidu
BAL Ballidu
BEAC Beacon
WA4 Burakin
CANN Canning Dam
H01W1 Cape Leeuwin Hydroacoustic Site W1
H01W2 Cape Leeuwin Hydroacoustic Site W2
H01W3 Cape Leeuwin Hydroacoustic Site W3
CARL Carlisle
COOL Coolgardie
DAM Dampier
DOCK Docker River
FITZ Fitzroy Crossing
FITX Fitzroy Crossing
FORT Forrest
FORR Forrest
GLS Giles
GIRL Giralia
GNOW Gnowangerup
KLG Kalgoorlie
KLGA Kalgoorlie
KMBL Kambalda
KAA Karratha
KLBR Kellerberrin
KLB Kellerberrin
KNA Kununurra
KNRA Kununurra
LKGR Lake Grace
MBWA Marble Bar
MBT Marble Bar
MBL Marble Bar
MEK Meekatharra
MEEK Meekatharra
MEKA Meekatharra
MORW Morawa
MRWA Morawa
MTKN Mount Kenneth
MUN Mundaring
NAU Nanutarra
NANU Nanutarra
NWA Narrogin NWAO
NWAO Narrogin (SRO)
NDA Nedlands
PER Perth
PSA00 Pilbara Seismic Array Element 00
PSAA1 Pilbara Seismic Array Element A1
PSAA2 Pilbara Seismic Array Element A2
PSAA3 Pilbara Seismic Array Element A3
PSAB1 Pilbara Seismic Array Element B1
PSAB2 Pilbara Seismic Array Element B2
PSAB3 Pilbara Seismic Array Element B3
PSAC1 Pilbara Seismic Array Element C1
PSAC2 Pilbara Seismic Array Element C2
PSAC3 Pilbara Seismic Array Element C3
PSAD1 Pilbara Seismic Array Element D1
PSAD2 Pilbara Seismic Array Element D2
PSAD3 Pilbara Seismic Array Element D3
RKG Rocky Gully
RKGY Rocky Gully
I04AU SHANNON INFRASONIC ARRAY REFERENCE POINT
SWV Swan View
WA3 Talbot Brook
WA2 Wagin
WRKA Warakurna
WBN Warburton
WARB Warburton
WAT Watheroo
WA1 Wongan Hills
WOOL Woolibar

New Zealand

Campbell Island
CBZ Campbell Island

Chatham Islands
I36NZ CHATHAM INFRASONIC ARRAY REFERENCE POINT
CTZ Chatham Island
CIZ Chatham Islands

Kermadec Islands
GLKZ Green Lake
RAO Raoul Island
RIZ Raoul Island
KRHZ Kereru
PWZ Pawanui
POWZ Post Office Road
WPHZ Waipukurau

North Island
ALRZ Allen Road
ANWZ Angora Road
RAHZ Arahi
ARA Arapuni
ABAZ Army Bay
ARHZ Aropaoanui
AUC Auckland
AWAZ Awhitu Peninsula
BHW Baring Head
BLW Big Hill
BFZ Birch Farm
BSWZ Blackbirch Station
BHHZ Black Hill Station
BKZ Black Stump Fm
BUN Bunnythorpe
BSZ Bushy Park
CAW Cannon Point
CMWZ Cape Campbell
CKHZ Cape Kidnappers
CRZ Cape Reinga
CNGZ Carnagh Station
CAZ Castlepoint
CPWZ Castlepoint
CNZ Chateau
COVZ Chateau Observatory
DNN Dannevirke
DVHZ Dannevirke
DFE Dawson Falls
DRZ Dome Shelter
DREZ Durham Road
ECZ East Cape
ETAZ East Tamaki Reservoir
EPAZ Eden Park BICEP
EDRZ Edgecumbe
FWVZ Far West T-bar
GRRZ Galatos Road
GNZ Gisborne
GSZ Glacier Shelter
GBZ Great Barrier
GRZ Great Barrier Island
HRRZ Handcock Road
HARZ Haroharo
HAS Hastings
HIZ Hauiti
HNZ Havelock North
HNHZ Havelock North
HBAZ Herne Bay Borehole
HBZ Hicks Bay
HLRZ Highlands Station
HATZ Hinemaiaia
HITZ Hingarae
HOWZ Holdsworth Station
HSRZ Hossack Road
HUTZ Huka
KUTZ Kaahu Road
KARZ Kaharoa
KHEZ Kahui Hut
KAHZ Kahuranaki
KMRZ Kaimai
KIT* Kaitaia
KATZ Kakaramea
KIW Kapiti Island
KBAZ Karaka Road Borehole
KRP Karapiro
KAVZ Karewarewa
KRVZ Karewarewa
KAAZ Kauri Point
KWHZ Kaweka Forest
KETZ Ketetahi
TKEZ Kiri Road
KNZ Kokohu
KUZ Kuaotunu
LREZ Lake Rotokare
LIRZ Lichensteins Rd
MAHZ Mahia
MHGZ Mahia Peninsula
MOZ Mahoenui
MRW Makara Radio
MKRZ Makatiti
MARZ Manawahe
MNG Mangahao
MHEZ Mangahewa
MRZ Mangatainoka River
MTVZ Mangateitei
MRH Marewa
MXZ Matakaoa Point
MWZ Matawai
MRHZ Matea Rd
MGZ Maungaku
MTHZ Maungataniwha
MYRZ Mayor Island
MCHZ McNeill Hill
MOVZ Moawhango
MOH Mohaka
MOW Moikau
MSWZ Moikau Station
MTAZ Motutapu
MBAZ Motutapu North Island, New Zealand
MKAZ Moumakai
AMW Mount Adams
MTW Mount Morrison
TARZ Mount Tarawera
MUGZ Murupara
NMEZ Namu Road
NPR Napier
NMHZ Naumai
NWEZ Newall Road
NBEZ Newall Road North Island, New Zealand
NPZ New Plymouth
NRZ Ngariki Road
NGZ Ngauruhoe
NGRZ Ngongotaha
NEZ North Egmont
NOZ North Gisborne
OHWZ Ohakea
OPRZ Ohinepanea
OIZ Oio
OUZ Omahuta
OMRZ Omania
ONE Onerahi
OTW Orongorongo Tunnel
OGWZ Otaki Gorge
OTAZ Otara
OTVZ Oturere
PATZ Paeroa
PKGZ Pakihiroa
PLWZ Palliser
PREZ Palmer Road
PAHZ Panekirikiri
PARZ Papamoa
WSSZ Parewanui
PRGZ Paritu Road
PAWZ Paruwai Farm
PXZ Pawanui
PRRZ Plateau Road
PKVZ Pokaka
PGZ Pongaroa
PRHZ Porangahau
PRWZ Pori Road
PKE Pukeiti
PNHZ Pukenui
PUZ Puketiti
QHW Quartz Hill
RBY Rainbow Mountain
RAEZ Rainy Point
RGZ Rangipo
RATZ Rangitukua

Code	Station Name	Other
RUGZ	Raukumara Range	
RUZ	Raurimu	
RAGZ	Rawiri	
RRRZ	Republican Road	
RITZ	Rihia Road	
RIGZ	Rimuhau	
RVAZ	Riverhead Borehole	
ROS	Roseneath	
ROT	Rotorua	
RTZ	Ruatahuna	
WSFZ	Santoft	
WSNZ	Santoft	
STN	Seatoun	
SNGZ	Shannon Station	
SNZO	South Karori	
WSDZ	Springvale	
STZ	Stratford	
TOZ	Tahuroa Road	
TSZ	Takapari Road	
TRZ	Taradale	
TTH	Taradale Trig	
TAHZ	Taraponui	
TNZ	Tarata	
TAZ	Tarawera	
TGRZ	Tauranga	
TWVZ	Taurewa	
TWGZ	Tauwhareparae	
TEHZ	Te Atua	
HAZ	Te Kaha	
TKGZ	Te Karaka	
TMWZ	Te Maipa	
TIWZ	Tintock	
TLZ	Tolley Road	
TON	Tongariro	
TRWZ	Traveller	
TUA	Tuai	
TUTZ	Tuhingamata	
TUVZ	Tukino	
TRVZ	Turoa	
URZ	Urewera	
UTU	Utuhina	
VRZ	Vera Road	
WNVZ	Wahianoa	
WTAZ	Waiatarua	
WIAZ	Waiheke Island	
WHHZ	Waihua	
WGZ	Waimangu	
WDW	Wainui Dam	
WMGZ	Waiomatatini Station	
WCZ	Waipu Caves	
WNZ	Wairakei	
WATZ	Wairara	
WAHZ	Wakarara	
WLFZ	Wanganui	
WAZ	Wanganui	
WEL	Wellington	
WTVZ	West Tongariro	
WHTZ	Whakaora	
WPVZ	Whakapapa	
WPRZ	Whakapapatarinqa	
WTZ	Whakatane	
WHH	Whakatau	
WHRZ	Whale Island	
WHVZ	Whangaehu Hut	
WLZ	Whitehall	
WIZ	White Island	
WSRZ	White Island Summit, North Island, New Zealand	
WHW	Wright's Hill	
South Island		
AKCZ	Akaroa Harbour	
AXZ	Alexandra	
BWZ	Berwen	
BBW	Black Birch	
BRZ	Borland Lodge	
BCZ	Braida Crags	
BSP	Bush Stream	
CFC	Cairnmuir Flats	
CMCZ	Cairnmuir Mts	
CRLZ	Canterbury Laser	
CCW	Cape Campbell	
CMZ	Cashmere	
CHR	Christchurch	
CYZ	Clyde	
CDZ	Cobb Dam	
COB	Cobb River	
DCZ	Deep Cove	
DNS	Denniston	
DSZ	Denniston North	
DMP	Diadem	
DNZ	Dunedin	
DND	Dunedin-Penfold	
DUWZ	D'Urville Island	
DIW	D'Urville Island	
EAZ	Earnscleugh	
EWZ	Erewhon	
EYCZ	Eyrewell	
FLW	Foulwind	
FOZ	Fox Glacier	
GPZ	Gebbies Pass	
GSP	Gladstone Stream	
GFW	Glenfield	
GLE	Glenmuick	
GVZ	Greta Valley South Island, New Zealand	
GRY	Greymouth	
HHSZ	Highcliff Hill	
HHP	Hogget Hill	
HGP	Huxley Gorge	
INZ	Inchbonnie	
JCZ	Jackson Bay	
KHZ	Kahutara	
KKZ	Kaikoura	
KKY	Kaikoura West	
KAI	Kaimata	
LBZ	Lake Benmore	
LMZ	Lake Moeraki	
LTZ	Lake Taylor	
LRCZ	Leaning Rock	
LSCZ	Lilico Spur	
MLZ	Mavora Lakes	
MQZ	McQueen's Valley	
MSZ	Milford Sound	
MNW	Monowai	
MHZ	Mount Horn	
MJZ	Mount John	
MJP	Mount John Pukaki	
MMP	Mount Mary	
MMCZ	Mount Michael	
MSCZ	Moutere Station	
NNZ	Nelson	
OMZ	Oamaru	
OKCZ	Okains Bay	
ODZ	Otahua Downs	
OXZ	Oxford	
PPZ	Puysegur Point	
PYZ	Puysegur Point	
QRZ	Quartz Range	
RPZ	Rata Peaks	
RHP	Rhoboro Hills	
RTY	Rotoiti	
ROX	Roxburgh	
RTP	Ruataniwha	
SYZ	Scrubby Hill	
SBCZ	Sonora Basin	
TAK	Takaka	
THP	Tara Hills	
TMP	Tomahawk Gully	
THZ	Tophouse	
TCW	Tory Channel	
TBC	Trig B	
TLC	Trig L	
TUWZ	Tuamarina	
TUZ	Tuapeka	
WPZ	Waipapa Point	
WAI	Wairiri	
WVZ	Waitaha Valley	
WACZ	Wakanui South Island, New Zealand	
WKZ	Wanaka	
WHZ	Wether Hill Road	
Stewart Island		
OBZ	Oban	
SIZ	Stewart Island	
APZ	The Paps	
Niue		
NIUE	Niue	
Papua New Guinea		
Admiralty Islands		
MOM	Momote	
Bougainville		
BUKA	Buka	
KOA	Kobuan	
BGA	Mount Bagana	
PAA	Panguna	
D'Entrecasteaux Islands		
BDO	Budoia	
ESB	Esa-ala	
ESA	Esa-ala	
LOSU	Losuia	
WDIS	Woodlark Island	
New Britain		
PGBAU	Baubata	
BIAL	Bialla	
BOI	Boisen	
CGA	Cape Gloucester Airport	
DOY	Duke of York Island	
DAW	Hoskins	
PGKAI	Kaiamu	
KRT	Keravat	
KET	Keravat	
KRVT	Keravat (AS076)	
KCM	Kilenge	
BULU	Kimbe	
KMB	Kimbe	
KMBE	Kimbe	
LAG	Langila	
PGMAR	Marapu	
MIP	Matupit	
MPT	Matupit Island	
EVZ	Mount Varzin	
NIS	Nissan Island	
PNB	Pomio	
RAL	Rabalanakaia	
RAB	Rabaul	
ERB	Rabaul (IGS)	
RPT	Raluana Point	
RAP	Rapindik	
ESM	Semalu	
SUL	Sulphur Creek	
TLS	Talasea	
TKA	Tanaka	
TAV	Tavurvur	
ETV	Tovanakuss	
ULA	Ulamona	
ULO	Ulamona	
VUL	Vulcan	
WAN	Wanliss Street	
EWT	Watom Island	
WITU	Witu Islands	
New Ireland		
EDY	Kabakon Island	
KAVG	Kavieng	
KVG	Kavieng	
KAV	Kavieng	
EKN	Konogogo	
ELB	Lambom Island	
LHIS	Lihir Island	
AGE	Agenahambo	
AITP	Aitape	
ALTO	Alotau	
ALOT	Alotau	
ALOA	Alotau	
BLLO	Bulolo	
DNG	Daru	
FINC	Finschhafen	
GKA	Goroka	
GRK1	Goroka	
GRK	Goroka	
KIAM	Kaiam	
KKI	Karkar Island	
KRG	Kerema	
KDB	Konedobu	
KPN	Kupiano	
KUPN	Kupiano	
KUTA	Kuta	
LUNA	Lae	
LAE	Lae	
LAT	Lae	
LML	Lae--Mount Lunaman	
LKW	Lake Wisdom	
LMG	Lamington	
MAD	Madang	
MDG	Madang	
MANU	Manus Island	
MNDI	Mendi	
MISM	Misima Island	
MCAS	Mount Castle	
HAGN	Mount Hagen	
NADZ	Nadzab	
NAMA	Namatanai	
PIAM	Paiam	
PDUI	Pindiu	
POP	Popondetta	
PMG	Port Moresby	
PUR	Purari	
RABL	Rabaul	
SRPI	Serui, Papua	
TBL	Tabele	
TABU	Tabubil	
OKTD	Tabubil	
TZZ	Tabubil	
TPN	Tapini	
WAB	Wabag	
WAA	Waris	
WAU	Wau	
WEWK	Wewak	
WEK	Wewak	
WEW	Wewak	
WWW	Wewak	
WWKK	Wewakk	
YAN	Yangoru	
YYYY	Yonkie	
Solomon Islands		
AUK	Auki	
GIZ	Gizo	
HNR	Honiara	
LBT	Labete	
PIV	Piva	
RKS	Reko	
SVO	Savo	
VSG	Visale	

CARIBBEAN SEA

Anguilla		
SWIP	Sombrero	
Antigua		
ANBD	Bethesda, Antigua	
Antigua and Barbuda		
ANG	Antigua	
AWI	Antigua	
BPA	Boggy Peak	
Barbuda		
BWI	Barbuda	
CPB	Codrington	
O6A	E Barbuda OBS	
ANWB	Willy Bob	
Barbados		
B5GA	5 Glenshane	
BDS	Barbados	
BRB	Barbados	
BDH	Highclere	
BBSP	Saint Philip	
Cayman Islands		
LCCY	Blossom Village, Little Cayman	
FSCY	Frank Sound, Grand Cayman	
GCM	Grand Cayman	
CBCY	The Bluff, Cayman Brac	
WBCY	West Bay, Grand Cayman	
Cuba		
CCCC	Cccc	
CISC	Cisc	
GM-	Guantanamo	GM-CU
GTMO	Guantanamo	
GM-CU	Guantanamo	
GBC	Guantanamo Bay	
HOL	Holguin	
HLGC	Holguin	
LMGC	Las Mercedes	
MGV	Manicaragua	
MASC	Masc	
MOAC	Moa	
PINC	Pinares de Mayari	
RCC	Rio Carpintero	
SABC	Sabc	
SOR	Soroa	
YAR	Yar	
Dominica		
BBL	Barber's Block	
DBCT	Belle View Chopil	
PSDMB	Cotton Hill	
DOM	Dominica	
MDPO	Dominica; Chance, Portsmouth	
MDMP	Dominica, Moore Park	
MDPV	Dominica, Pennville	
MDVC	Dominica, Vielle Case	
DFBT	Forest Bistro	
DGBT	Grand Bay	
DLPL	La Plaine	
DLVT	Layou Valley	
MDN	Morne-Daniel	
DPMT	Pointe Michel	
PSDMZ	Portsmouth	
DRTD	Roseau, Dominica	
DSLB	Salisbury	
DSHT	Scott's Head	
DSC	Scotts Head	
PSDMA	Soufriere	
DSVT	Soufriere Village	
DSTT	Stowe	
DTMT	Tete Morne	
DVDT	Valley Desolation	
DVCT	Vielle Casse Police Station	
DWS	Wesley	
Dominican Republic		
DR10	Alto Bandera	
BANI	BANI	
BRH1	Barahona	
ROBI	Boca de Chavon	
BON1	Bonao	
SNH1	Catey	
SDD09	Ceiba Bonita	
GUAY	Guayacanes	
SDD06	Hatillo	
HTM1	Hato Mayor	
HGY1	Higuey	
SAON	Isla Saona	
DR07	Jarabacoa	
JIDR	Jimani	
DR01	Juana Nunez	
DR1	Juana Nunez	DR01
DR06	La Diferencia	
DR6	La Diferencia	DR06
DR05	La Lomota	
DR5	La Lomota	DR05
DR11	La Yayitas	
SACA	Loma Carmona	
SDD01	Loma Colora	
SDD07	Loma El Cafe	
MAVI	Loma El Joboban	
SDD04	Loma El Mogote	
LOMO	Loma en Medio	
SDD03	Loma La Ceniza	
DR08	Loma La Naviza	
DR8	Loma La Naviza	DR08
SDD05	Loma Manaclilla	
DR12	Loma Pena Alta	
QUES	Loma Quita	
SDD02	Loma Siseviere	
SDD08	Loma Yayales	
MAO1	Mao	
DR4	Monte Llano	DR04
DR04	Monte Llano	
SDD10	Monte Rojo	
NADR	Nagua	
DR09	Piedra Blanca	
DR03	Pinalito	
DR3	Pinalito	DR03
PPDR	Puerto Plata	
PUCA	Punta Cana	
PCDR	Punta Cana, DR	
SMN1	Samana, DR	
DR13	Sanchez	
SFM1	San Francisco de Macorix	
DR02	San Jose de las Matas	
SJM1	San Juan de la Maguana	
PUCM	Santiago	
SC02	Santiago aeropuerto	
SC01	Santiago de los Caballeros	
STDO	Santo Domingo	
SDD	Santo Domingo	
DR14	Sierra Prieta	
DR15	Siete Picos	
France		
Guadeloupe		
ABGF	Abri du Galion	
GABY	Abymes - Guadeloupe	
MAGL	Barre de l'ile, St louis, Marie Galante	
BTG	Basse Terre	
BCG	Bois Riant Capesterre	
LKG	Breislack	
CRG	Carmichael	
DOG	Dongo Capesterre	
ECG	Echelle	
CBE	F˜f˜, Capesterre Belles Eaux	
FNG	Fond-Bernard	
LZG	Guadaloupe-1	
PHG	Guadaloupe-2	
TBG	Guadaloupe-3	
H05N1	Guadeloupe/Martinique T-Phase Site N1	
H05S1	Guadeloupe/Martinique T-Phase Site S1	
HMG	Houelmont	
IAG	Institut Agronomique	
DEG	La Desirade	
GDSD	La D˜sirade Island	
ABD	La Joyeuse, Anse Bertrand	
GLMO	Le Moule	
PAG	Le Parnasse	
MGG	Marie-Galante	
MBG	Matouba	
MLG	Mont-d'or	
GDHS	Morne Mazeau, Deshaies	
MSGF	Morne Soldat	
PRGF	Pas du Roy	
GPTB	Petit Bourg	
GCPN	Pointe noire	
SEG	Port Louis	
RMGF	Ravine Marchand	
SCG	Saint Claude	
SFG	Saint Francois	
SSG	Sans Toucher	
TAG	Tarade	
TDBA	Terre de Bas, Les Saintes	
FBG	Trois Rivieres	
TVG	Trois Rivieres	FBG
Martinique		
ZAM	Aeronautique	
BVM	Bellevue	
BIM	Bigot	
PMCB	Calebasse	
CRM	Caravelle	
FDF	Fort de France	
GBMF	Grand Be	
ILAM	Ilet Lapin Martinique	
AIL	L'Aileron	
MVM	Montagne Vauclin	
MPM	Monte-Pele	
BAMF	Morne Balai	
MJM	Morne Jacques	
CXM	Morne La Croix	
LPMF	Morne Lapointe	
PML	Morne Lenard	
PAMF	Morne Pavillon	
MPOM	Morne Pois Martinique	
PAI	P Aileron	
PCM	Pelee Case Petit	
SVN	Savane Anatole	
TRMF	Trois Ilets	
Grenada		
GRCU	Cariacou	
GRE	Grenada	
GRIC	Isle de Caille	
GRW	Mount Saint Catherine	
MCG	Mt St Catherine	GRW
GRHS	Sauteurs	
GRSS	Sisters	
Haiti		
NQBME	Bureau des Mines et	

	l'Energie
NQWLB	Fermate
JAKH	Jacmel
WSYH	La Gonave Hosp
LGNH	Le@15oga@12ne
PEDR	Pedernales
PAPH	Port-au-Prince
SSM	Saint Martial
NQUSE	US Embassy, Port-au-Prince

Honduras
Swan Islands

SWA	Swan Island

Jamaica

BBJ	Bamboo Saint Ann
BEV	Beverley
BRJ	Black River
BNJ	Bonny Gate
CMJ	Castle Mountains
CVJ	Coleyville
GWJ	Greenwich
HOJ	Hope
HOP	Hope Bay
KIN	Kingston
MCJ	Malvern
MBJ	Montego Bay
MTDJ	Mount Denham
NEJ	Negril
NCJ	New Castle
PAJ	Port Antonio
PCJ	Portland Cottage
PRJ	Port Royal
RHJ	Red Hills
SPJ	Spur Tree
STH	Stony Hill
YHJ	Yallahs

Montserrat

MBET	Bethel	
MJHT	Jackboy Hill	
MLYT	Lee's Yard	
MLGT	Long Ground	
MWI	Montserrat	
MVOV	Montserrat Volcano Observatory	
NVDO	Nevis, Disaster Management Department Office	
MGH	Saint George's Hill	
MSPT	Saint Patrick	
MBRY		MRYT
MBMH		
MBGB		
MGAT		MBGA
MDUM		
MBGE		
MRYT		
MBLG		MLGT
MBSS		
MBBY		
MBGA		
MBWH		
MCPZ		
MBRV		

Netherlands Antilles

SBN	Saba
SABA	Saba
SABT	Saba
SABS	Saba
SABV	Saba, Juancho Airport
SABQ	Saba, The Bottom
SABW	Saba, Winward Side
STAT	Sint Eustatius
MRN	Sint Maarten
SEUS	St. Eustatius
SEUG	St. Eustatius G
SEUH	St. Eustatius H
SEUT	St. Eustatius T
SKOC	St. Kitts, UWI Open Campus
SMRT	St. Maarten
STMA	St. Maarten, Airport

Puerto Rico

AGP	Aguadilla
AGPR	Aguadilla, PR
ABVI	Anegada Island
APR	Arecibo
AOPR	Arecibo Observatory
PWP	Barrio Florida
CRPR	Cabo Rojo, PR
CAG	Caguas
CGV	Camp Garcia
CBYB	Canovanas
CBYP	Canovanas
CSJ	Cape San Juan
CLLP	Cerrillos
CELP	Cerrillos
CDPB	Cerro de Punta
CDP	Cerro de Punta
CPD	Cerro la Pandura
CPDB	Cerro Pandura
CCA	Coamo
CSB	Colonia Sabana
HUMP	Col San Antonio
CORN	Cornellia Hill
CUP	Culebra
CULB	Culebra
CUPR	Culebra, Puerto Rico
DOS	Dos Bocas Dam
EYP	El Yunque
EMPR	Esperanza - Manati, PR
GBPR	Guanica, Bosque Seco, PR
GCPR	Guaynabo City
IGPR	InterUniversity Guayama PR
ICMP	Isla Caja de Muertos, Puerto Rico
ICM	Isla Caja Muertos
IDE	Isla Desecheo
IMOB	Isla Mona
IMO	Isla Mona
IMR	Isla Mona
LPR	La Peregrina
LRS	Lares
LSP2	Las Mesas
LSP	Las Mesas
MGPB	Maguayo
MGP	Maguayo
MLPR	Magueyes Island, Lajas, Puerto Rico
MRCP	Maricao
MPR	Mayaguez
MCAB	Moca
MCP	Moca
MOCA	Moca
IMPR	Mona Island, PR
MTP	Monte Pirata
MTPB	Monte Pirata
MOV	Morovis
MEP	Mte del Estrado
OBIP	Obispado Ponce
PDPR	Patillas Dam, Puerto Rico
PNP	Penuelas
PZ-PR	Ponce
PON	Ponce
PZ-	Ponce PZ-PR
PTP	Ponta Puerca
PORP	Portuguez
QBPR	Quebradillas
RRP	Roosevelt Roads
RRD	Roosevelt Roads
SJG	San Juan
SJP	San Juan
SJGC	San Juan (W) SJG
VQS	Vieques

Saint Kitts and Nevis
Nevis

NVBH	Bath Hotel, Nevis
NEV	Hard Times
NVRH	Round Hill, Nevis

St Kitts

BSK	Brimstone Hill
STKP	Saint Kitts
SKI	Saint Kitts
SKDB	Saint Kitts 2
SKTB	Turtle Beach

Saint Vincent and the Grenadines
St Vincent

SVL	Baleine
BHS	Barnard House
SVB	Belmont
SSV	Crater Summit
SFAN	Fancy Village
FCV	Fort Charlotte
SVG	Indian Gallows
OHS	Orange Hill
SOA	Owia
RSV	Radio Antilles
SRH	Rilland Hill
SVT	Saint Vincent
SVI	Saint Vincent
SVV	Soufriere Volcano
SVCV	St. Vincent, Congo Valley

St Lucia

BCHC	Barbados, Cave Hill Campus
SLB	Belfond
SLCP	Castries, St. Lucia
SLDE	Delcer
SLTA	Morne Tabac
MCLT	Moule a Chique
SLPA	Patience
SLW	Petit Monier
SLPE	Piton Saint Espirit
SLI	Saint Lucia
SLAC	Saint Lucia, Anse Canot
SLBI	Saint Lucia, Bisee

St Vincent

SVOC	Richmond Hill, Kingstown, St. Vincent

Trinidad and Tobago

ALNG	Atlantic LNG
BOT	Bacolet
TBH	Brigand Hill
BUAY	Buenos Aires
TCE	Chacachacare
TCHG	Chaguaramas
GNG	Grange
TTR	Matura
PIG	Pigeon Point
PLY	Plymouth
TPP	Pointe-a-Pierre
PLS	Point Lisas
TPR	Prospect
TPTC	Pt. Cumana
SIH	Signal Hill
SIPA	Siparia
TOSP	Speyside
TOB	Tobago
TRN	Trinidad (W)
TWMO	Westmoorings

Turks and Caicos Islands

GRTK	Grand Turk

Virgin Islands

ABV	Anegada
CGPV	Cottongarden Point
SCV	Saint Croix
SCVI	Saint Croix
SJV	Saint John
STVI	Saint Thomas
VST	Saint Thomas
CDVI	St. Croix
TBVI	Tortola
VGVI	Virgin Gorda
VGBI	Virgin Gorda, British Virgin Islands
GPV	Virgin Gorda Peak

CENTRAL AMERICA

Costa Rica

ACAL	Aguas Claras
AMAS	Alto Masis
A492	Arado
AR1	Arenal
PACM	Arenal
ARE1	Arenal 1
AROL	Arenal Observatory Lodge
BANL	Banca Lucia
BATAN	Batan
LAJ	Bijagual
GPS3	Bodega del ICE en Pailas
GB1A	Borinquen Arriba
BUS	Buena Vista
BUEV	Buena Vista
EDBA	Buenos Aires
BUAI	Buenos Aires
CANG	Candelarita
CDITO	Canoas
AR7	Cape Frico
CBLA	Cariblanco
CMAQ	Casa Mˆ¡quinas
APPA	Casa Mˆ¡quinas Las Pailas
APGM	Casa Mˆ¡quinas Miravalles
CASL	Cascajal
CASO	Castillo
CASI	Castillo
CDL2	Cedral CDRL
CDRL	Cedral
CERBA	Cerbatana
ACR	Cerro Adams
CDM	Cerro de Muerte
CGAC	Cerro Gallo
CGA2	Cerro Gallo 2
AR6	Chiripa
CHPA	Chiripa
CAO	Cobano
ICCO	Coco Island
COLC	Colonia
COCR	Colorado
CTCR	Cotoan
COVE	COVE
A10	Crater
CUI	Cuipilapa
EDDO	Dominical
2RIO	Dos Rios de Upala
DUNO	DUNO
DRK0	Durika
PEZE	El Pocito
A495	El Viejo
SJS	Escuela Geologia
EPA	Esparza
FIBO	Fila Bonilla
FICA	Fila Carbon
LAPC	Finca la Perla
GBS3	Finca Las Imˆ¡genes
FORC	Fortuna
GPS1	Guardaparques de Rincˆ‡n de la Vieja
TMIA	Guayabo
MICM	Guayabo
GUAB	Guayabo de Bagaces
HAYA	HAYA
HDC	Heredia
HDC2	Heredia 2
HDC3	Heredia 3
HDC4	Heredia 4
HORNC	Hornillas
GPS2	Hotel Rincˆ‡n de la Vieja Lodge
HZTE	HZTE
IDC	Isla del Cano
ICO	Isla del Coco
JCR	Jicaral
JUD	Juan Diaz
JUD2	Juan Diaz 2
JUD3	Juan Diaz 3
JTS	JuntasAbangares
CRZ1	La Cruz
CRZC	La Cruz
LORF	La Fuente
AR2	Lago de Cote
CEDE	Laguna Cedeˆ–o
LCR	La Lucha
LCR2	La Lucha 2
LLC	La Lucha Farm
LARO	La Roca
LARC	La Roca
GBS2	Las Lilas
EDLM	Las Mercedes
LIBE	Liberia
LNCR	Limon
LIO	Limon
LICR	Limon
LIM1	Limonal
LCH0	Los Chiles
ACLS	Los Chiles
LOLA	Los Lagos
MESS	Mesas
NICO	Nicoya
AR8	Nicoya
AR9	North
OCM	Ochomogo
EDPN	Palmar Norte
PALO	Palomo
PAL1	Palomo
PLVR	Palo Verde
A494	Palo Verde
PTEN	Parque Tenorio
PICA	Picada
POA	Poas
POA2	Poas 2
POA5	Poas 5
TERP	Poasito
PTCR	Potenciana
POCR	Potenciana 2
PBO3	Pozo tres de Borinquen
PUJ	Puerto Jimenez
PTJ1	Puerto Jimˆ¨nez
MOIN	Puerto Moin
PBC	Punta Burica
PBNC	Punta Burica Nicaragua
PSVT	Puntarenas
PRS1	Puriscal
QPSR	Quepos
QPS	Quepos
QCR1	Quepos
QCR	Quepos
RIOS	Rincon
RIFO	Rio Frio
RMCR	Rio Macho
SDS	Sanatorio Duran
SJR	San Jose
A490	San Lazaro
SPS	San Pedro Poas
SRA	San Ramon
SRA1	San Ramˆ‡n
AR5	Santa Elena
EDSV	San Vito
SVTC	San Vito de Coto Brus
SELF	Sixty Eight Flow
AR4	Solania
TCSO	Tacares
TLLA	Tiendilla
AR3	Tierras Morenas
TIG	Tigre
TIG2	Tigre 2
TRTC	Tortuguero
TRT1	Tortuguero
TUI	Tuis
NY14	Universidad de la EARTH en Liberia
URSC	Urasca
VBL1	Vara Blanca
VENE	Venecia
VCR	Vista de Mar
VACR	Volcan Arenal
IRZ	Volcan Irazu
ICR	Volcan Irazu
IRZ2	Volcan Irazu 2
VPS	Volcan Poas
VPS2	Volcan Poas 2
RIN3	Volcan Rincon
RIN2	Volcan Rincon
RIN	Volcan Rincon
VTUC	Volcan Turrialba
VTR0	Volcan Turrialba
VTU	Volcan Turrialba
CVTR	Volcan Turrialba
WARN	West Arenal
BAR1	

El Salvador

ADES	Adelaida
AHU	Ahuachapan
AYA	Ayagualo
BLLM	Bellamira
BOQS	Boqueron
CAHU	Cacacuatique
CTAS	Cauta
CIGS	Centro de Investigaciones Geotecnicas
CEVE	Cerro Verde
UCHI	Chinameca
COAS	Coatepeque
COLS	Colinas
CNCH	Conchagua
CUS1	Cusmapa
CUSS	Cusmapa
MONT	Ecomontan@16a
ANGS	El Angel
LFRS	El Faro
RTR	El Retiro
HUES	Huehuecho
LCND	La Caˆ–ada
LCY	Lacayo
LCBS	La Ceiba
LFU	La Fuente
LLGN	La Laguna
LPS	La Palma
LBRS	Las Brisas
AIES	Las Flores
GRDS	Las Granadillas
NUBE	Las Nubes
PAVA	Las Pavas
LALZ	Loma Alta
LGUZ	Los Guarumos
MTO	Montecristo
MTO3	Montecristo
MTO2	Montecristo 2
NANS	Nanahuazin
NCS	Nueva Concepcion
OJOS	Ojo de Agua
UESV	Ojushtada
PACA	Pacayal
PMON	Piamonte
PICS	Picacho
QZA	Quezalapa
RBDL	Robledal
CEDA	San Andres
SBLS	San Blas
SJAS	San Jacinto
SNJE	San Jose
LOMA	San Marcos
SANM	San Marcos
SMIG	San Miguel
VSM	San Miguel
SSS	San Salvador
OPAM	San Salvador
UTEC	San Salvador
UEES	San Salvador
CUSC	San Salvador
UESS	San Salvador
CLUB	San Salvador
UNIC	Santa Ana
SJUZ	Santa Julia
SDMZ	Santiago de Maria
SDM	Santiago Maria
SNVI	San Vicente
SNET	Serv Nac Est Terr
SONS	Sonsonate
UDBS	Soyapango
SOYA	Soyapango
TACO	Tacachico
TECA	Tecapa
TCPZ	Tecapa
TME	Tecomasuche
VICT	Victoria
VSS	Volcan San Salvador
YPE	Yupe
MUMZ	
SANZ	

Guatemala

BVG	Bouganvilia
BVA	Buena Vista
CIM	Chimachoy
APG	El Apazote
FGO	Fuego
FGO2	Fuego 2
FUG	Fuego 3
GCG	Guatemala City
HUG	Huitzitzil
ITG	Itzapa
IXG	Ixpaco
JAT	Jato
JMG	Jumaytepeque
JNJ	Junjel
KJA	Kiajanaja

Code	*Station Name*	*Other*
KIK	Kika Raxquin	
KKG	Kukul	
LHG	La Concha	
CMG	La Cumbre	
CMG2	La Cumbre 2	
FLS	Las Flores	
NBG	Las Nubes	
LVG	La Victoria	
LTG	Los Tablones	
MMG	Magdalena	
MRL	Marmol	
MYT	Moyuta	
OCG	Ocos	
OC2	Ocos 2	
OLG	Olintepeque	
PCG	Pacaya	
PSG	Pto de San Jose	
PSG2	Pto San Jose 2	
QZG	Quezaltepeque	
RDG	Rabinal	
REC	Recreo	
SBL	Sacbachol	
SXG	Sacranix	
SLP	San Antonio	
SJT	SanJuan Tecuaco	
SOG	Santiaguito	
SOG2	Santiaguito 2	
SBG	Sibinal	
SLG	Sinonel	
TCG	Tacana	
TEP	Tecpan	
TP2	Tecpan 2	
TER	Terranova	
VLG	Velasquez	
YUP	Yupiltepeque	
ZIS	Zishin	
FG6		
Honduras		
CHUH	Cerro de Hula	
HLH	Cerro de Hule	
LHAH	Las Aradas	
LTH	Lepaterique	
SSU	San Pedro Sula	
TGUH	Tegucigalpa,Univ of Honduras	
UNAH	Universidad Nacional Autonoma de Honduras	
Nicaragua		
Managua		
CSAN		
HUEN		
ACON	Acoyapa	
ACY	Acoyapa	
AGUN	Aguas Calientes	
WILN	Americas 2	
APY	Apoyeque	
APYN	Apoyeque	
APON	Apoyo	
ASE	Aserradero	
BOA1	Boaco	
BOA	Boaco	
BOAB	BOACO BROADBAND	
CNGN	Cerro Negro	
CHIN	Chinandega	
CNR	Chonco	
COFN	Cofrada	
CONN	Concepcion	
COPN	Copaltepe	
COS	Cosiguina	
CSGN	Cosiguina Volcano	
CYN	Coyotepe	
CRUN	El Crucero	
ESTN	Esteli@15	
XAVN	Gruta Xavier	
JIG	Jinotega	
TISN	Laguna Tiscapa	
ESPN	Las Esperanzas	
LNB	Las Nubes	
BRAN	Las Pilas	
LEON	Leon	
LIY	Limay	
MGAN	Managua	
MCH	Masachapa	
MASN	Masaya	
MATN	Matagalpa	
MMO	Medio Mundo	
MIRN	Miramar	
MOCN	Mocoron	
MOBN	Mombacho	
MOMN	Momotombo	
MOMJ	Momotombo	MOMN
MOYN	Moyogalpa	
OME	Ometepe	
PYT	Playitas	
PYTN	Playitas	
PYN	Poneloya	
QUIN	Quiabu	
RTN	Rota	
CRIN	San Cristobal	
SSNN	San Juan del Sur	
SSN	San Juan del Sur	
RCON	San Juan de Rio Coco, Nicaragua	
SMCN	San Marcos	
SCRN	Santa Cruz	
SOMN	Somoto	
TELN	Telica	
TEL3	Telica 3	
TICN	Ticuantepe	
VER	Veracruz	
MADN	Villa Maderas	
Panama		
ACLA	Agua Clara, Sierra Llorona en Colsn	
APOP	Alto Boquete	
ACH	Altos	
AZU	Azuero	
BHP	Balboa Heights	
BRU	Baru	
BYN	Bayano	
JEF	Cerro Jefe	
CNI	Changuinola	
ECO	Colon	
ECO2	Colon	
DVD	David	
FRIJ	El Hiral	
FLAM	Flamenco Island	
FH-	Fort Sherman	FH-PM
FH-PM	Fort Sherman	
FTA	Fortuna	
IPE	Ipeti	
BCIP	Isla Barro Colorado	
LGT	Lagarterita	
LVS	La Villa de Los Santos	
UPD2	Meteti	
BASP	Panama	
AZU2	Pedasi@15	
PNME	Penonome	
PTP1	Petroterminal	
PINA	Piqa, Costa Abajo de Colsn	
ARM	Puerto Armuelles	
ARM2	Puerto Armuelles 2	
SFX2	San Felix	
UPD1	Univ de Panama	
UPA	Univ. de Panama@15	
BRU2	Volcan	
ZANG	Zanguenga, Chorrera	
TBS2		
UPIG		

EUROPE

Albania		
BCI	Bajram Curri	
BERA1	Berat	
BERA	Berati	
FIER	Fieri	
FRZ	Fierza	
TIR1	Institute of Geosciences in Tirana	
KMA	Kami	
KBN	Korca	
KKS	Kukesi	
LACI	Lac	
LSK	Leskovik	
PHP	Peshkopia	
PRZA	Preza	
PUK	Puka	
QSH	Qafa e Shtames	
SRN	Sarande	
SDA	Shkodra	
TPE	Tepelena	
TIR	Tirane	
VLO	Vlora	
Andorra		
PAND	Andorre	
ARBS	La Rabassa	
Austria		
ABTA	Abfaltersbach	
ARSA	Arzberg	
CSNA	Conrad Observatory	
CONA	Conrad Observatory	
DAVA	Damuels	
FETA	Feichten	
GHA	Glashutten	
GRA	Graz	
IBK	Innsbruck	
INN	Innsbruck	
KFA	Klagenfurt	
KBA	Koelnbreinsperre	
KMR	Kremsmunster	
LTA	Leoben	
MZA	Mariazell	
MOA	Molln	
MOTA	Moosalm	
OGA	Obergurgl	
OBKA	Obir	
PIA	Pitten	
RETA	Reutte	
SQTA	Sankt Quirin	
SCE	Schlegeis	
SOKA	Soboth	
MYKA	Terra Mystica	
VIE	Vienna	
VKA	Vienna	
WATA	Walderalm	
WTTA	Wattenberg	
Azores		
PAGU	Agualva, Azores	
PFCBR	Castelo Branco, Faial, Azores	
Belarus		
NE54	Brest	
NE57	Homyel'	
MICGM	Minsk	
MNK	Minsk	
NACGM	Naroch	
NE53	Naroch'	
Belgium		
BBOU	Bougnies	
C01	C01	
C02	C02	
C03	C03	
C04	C04	
C05	C05	
C06	C06	
C07	C07	
C08	C08	
C11	C11	
C12	C12	
C13	C13	
C14	C14	
C16	C16	
C18	C18	
BCLA	Clavier	
BCES	Court-Saint-Etienne	
BDSL	Dessel	
NE06	Dourbes	DOU
DOU	Dourbes	
BEBN	Eben Emael	
BGES	Gesves	
GIP	Gileppe	
BHOU	Houvegnez	
BLCH	La Chartreuse	
BMRD	Maredsous	
MEM	Membach	
BMOL	Mol	
BOPT	Opiter	
BOST	Ostende	
RCHB	Rochefort	
BRQR	Ronqui¯ore	
BSTI	Sart Tilman	
SNF	Seneffe	
BSKQ	Steenkerk	
BTNL	Ternell	
UCC	Uccle	
WRM	Warmifontaine	
BZEV	Zevekote	
NE33		MEM
Bosnia and Herzegovina		
BLY	Banja Luka	
BLJ	Bijeljina	
DOB	Doboj	
HAPS	Han Pijesak,BIH	
MST	Mostar	
MRAK	Mrakovica	
MGRS	Mrkonjic Grad	
PRIJ	Prijedor	
RUDO	Rudo	
SAR	Sarajevo	
TRA	Travnik	
TREB	Trebinje	
Bulgaria		
AVR	AVREN	
KALB	Balgarevo	
RAZAM	Belene	
BLKB	Belogradchik	
DIM	Dimitrovgrad	
DOBAM	Dobrich	
ELND	Elena	
KKB	Krupnik	
KUBB	Kubrat	
KDZ	Kurdzhali	
KOZAM	Lom-Kozlod	
LOZB	Loznitsa	
MPEP	Malo Peshtene	
MNNAM	Montana	
MMB	Musomiste	
NEF	NEVSHA	
PGB	Panagyurishte	
PVL	Pavlikeni	
PLVB	Pleven	
PLD	Plovdiv	
PSN	Preselentsi	
PRD	Provadia	
RAZG	Razgrad	
ROIA	ROIÄK	
RZN	Rozhen	
RUSAM	Ruse	
SHAB	Shabla	
SILAM	Silistra	
SOF	Sofiya	
SZH	Strazhica	
VETAM	Veliko Turnovo	
PLVAM	Vidin	
VTS	Vitosha	
JMB	Yambol	
Champagne-Ardenne		
SAVF	Savonnieres en Perthois	
Croatia		
BRJN	Brijuni	
DBR	Dubrovnik	
DBRK	Dubrovnik	
DUGI	Dugi Otok	
DUOK	Dugi Otok	
HVAR	Hvar	
KALN	Kalnik	
KIJV	Kijevo	
LSTV	Lastovo	
MAKA	Makarska	
MORI	Morici	
MOSL	Moslavina	
NVLJ	Novalja	
OZLJ	Ozalj	
POL	Pola	
PTJ	Puntijarka	
RICI	Ricice	
RIY	Rijeka	
SEB	Sibenik	
SNJ	Sinj	
SISC	Sisak	
STON	Ston	
UDBI	Udbina	
ZAG*	Zagreb	
ZAG	Zagreb	
ZIRJ	Zirje	
Czech Republic		
ANAC	Anensky vrch	
BERN	Bernov	
BVOC	Bila Voda	
BHC	Bohunice	
CKRC	Cesky Krumlov	
CHE	Cheb	
CHVC	Chvalec	
DPC	Dobruska-Polom	
GOPC	GO Pecny, Ondrejov, Czech Republic	
HAVC	Havirov	
JIND	Jindrichovice	
KACW	Kace¯ov	
KHC	Kasperske Hory	
KOCW	Kopaniny	
KRLC	Kraliky	
KRCW	Kraslice	
KVC	Kvetna	
LACW	Lazy	
LIPC	Lipinka	
LUBY	Luby	
LBCW	Luby	
KRUC	Moravsky	
MORC	Moravsky Beroun	
MUVC	Mutkov	
MUTC	Mutkov	
NKC	Novy Kostel	
OSTC	Ostas	
OKC	Ostrava-Krasne	
PVCC	Panska Ves	
POCA	Pocatky	
POCW	Po¯¯¡tky	
PRA	Prague	
PBCC	Pribram	
PRU	Pruhonice	
SKC	Skalna	
STCW	Studenec	
TREC	Trest	
TRCW	Trojmezˆ›	
UPC	Upice	
VAC	Vackov	
VACK	Vackovec	
JAVC	Velka Javorina	
VRAC	Vranov	
ZHC	Zelena Hora	
ZAPC		
CHOC		
LUTC		
PRSC		
Denmark		
BSD*	Akirkeby	BSD
BSD	Bornholm Skovbrynet	
BFOD	Brorfelde Observatory, Denmark	
COP	Copenhagen	
GID	Gilleleje	
GOET	G??ttrup	
LLD	Lille Linde	
NE03	Logumkloster	
NE02	Monsted	
MUD	Monsted U'grnd	
T1BD	T1BD	
T2BD	T2BD	
T3BD	T3BD	
T4BD	T4BD	
T5BD	T5BD	
T6BD	T6BD	
T7BD	T7BD	
T801	T801	
T802	T802	
T803	T803	
T804	T804	
T805	T805	
T806	T806	
T807	T807	
T808	T808	
T809	T809	
T810	T810	
T811	T811	
T812	T812	
T813	T813	
T814	T814	
T815	T815	
T816	T816	
T817	T817	
T818	T818	
T819	T819	
T820	T820	
T899	T899	
T8MG	T8MG	
T998	T998	
T999	T999	
Estonia		
ARBE	Arbavere	
MTSE	Matsula	
SRPE	Suurupi	
TRTE	Tartu	
TTU	Tartu	
VSU	Vasula	
Finland		
AAL	Aland	
OBF1	Elˆvisluoto, Pyhˆjoki	
FA05	FA05	
FA06	FA06	
FA07	FA07	
FA08	FA08	
FA09	FA09	
FA10	FA10	
FA11	FA11	
FB03	FB03	
FB05	FB05	
FB06	FB06	
FB07	FB07	
FB08	FB08	
FB09	FB09	
FB10	FB10	
FB11	FB11	
FC03	FC03	
FC04	FC04	
FC05	FC05	
FC06	FC06	
FC07	FC07	
FC08	FC08	
FC09	FC09	
FC10	FC10	
FC11	FC11	
FD03	FD03	
FD04	FD04	
FD05	FD05	
FD06	FD06	
FD07	FD07	
FD08	FD08	
FD09	FD09	
FD11	FD11	
FD12	FD12	
FD14	FD14	
FD15	FD15	
FE03	FE03	
FE04	FE04	
FE05	FE05	
FE06	FE06	
FE07	FE07	
FE08	FE08	
FE09	FE09	
FE10	FE10	
FE11	FE11	
FE12	FE12	
FE13	FE13	
FE14	FE14	
FE15	FE15	
FF02	FF02	
FF04	FF04	
FF05	FF05	
FF06	FF06	
FF07	FF07	
FF11	FF11	
FF12	FF12	
FF13	FF13	
FF14	FF14	
FF15	FF15	
FF30	FF30	
FF31	FF31	
FF32	FF32	
FF33	FF33	
FF90	FF90	
FF91	FF91	
FF92	FF92	
FF93	FF93	

Code	Station Name	Other
FF94	FF94	
FG01	FG01	
FG02	FG02	
FG03	FG03	
FG04	FG04	
FG05	FG05	
FG06	FG06	
FG07	FG07	
FG08	FG08	
FG09	FG09	
FG10	FG10	
FG11	FG11	
FG12	FG12	
FG13	FG13	
FG14	FG14	
FH02	FH02	
FH03	FH03	
FH04	FH04	
FH05	FH05	
FH06	FH06	
FH07	FH07	
FH09	FH09	
FH10	FH10	
FH11	FH11	
FH12	FH12	
FH13	FH13	
FH14	FH14	
FINES	FINESS Array Beam Reference Point	
FIA0	FINESS Array Site A0	FINES
FIA1	FINESS Array Site A1	
FIA2	FINESS Array Site A2	
FIA3	FINESS Array Site A3	
FIB1	FINESS Array Site B1	
FIB2	FINESS Array Site B2	
FIB3	FINESS Array Site B3	
FIB4	FINESS Array Site B4	
FIB5	FINESS Array Site B5	
FIB6	FINESS Array Site B6	
FIC1	FINESS Array Site C1	
FIC2	FINESS Array Site C2	
FIC3	FINESS Array Site C3	
FIC4	FINESS Array Site C4	
FIC5	FINESS Array Site C5	
FIC6	FINESS Array Site C6	
FJ01	FJ01	
FJ02	FJ02	
FJ03	FJ03	
FJ05	FJ05	
FJ06	FJ06	
FJ07	FJ07	
FJ08	FJ08	
FJ09	FJ09	
FJ11	FJ11	
FJ12	FJ12	
FK04	FK04	
FK05	FK05	
FK06	FK06	
FK07	FK07	
FK08	FK08	
FK09	FK09	
FK10	FK10	
FK11	FK11	
FKAF	FKAF	
FVAF	FVAF	
HEL	Helsinki	
HEF	Hetta	
JOF	Joensuu	
JOE	Joensuu	
KJF	Kajaani	
KJN	Kajaani	
OBF7	Kamusenperˆ⁄, Kalajoki	
NE62	Kangasniemi	
KAF	Kangasniemi	
KU5	Karpankyla	
KU7	Kasma	
NE63	Kauhava	
OBF6	Kekajˆ⁄rvi, Ylivieska	
KEF	Keuruu	
KEV	Kevo	
KEV1	Kevo	
KIF	Kilpisjarvi	
KLF	Kolari	
KU8	KU8	
KU1	Kurvinen	
KU4	Liikasenvaara	
MSF	Maaselka	
OUF	Merijarvi	
MEF	Metsahovi	
NE61	Nurmija@14rvi	NUR
NUR	Nurmija@14rvi	
OUFX	Oulainen	
OLKF	Oulanka, Finland	
OUL	Oulu	
PVF	Pernaja	
PKK	Porkkala	
PRV	Porvoo	
PRF	Porvoo	
KU3	Posio	
RAF	Rauma	
KU6	Riekki	
RNF	Rovaniemi	
OBF3	Siikajoki	
SDF	Sodankyla	
SGF	Sodankyla@14	
SOD	Sodankyla@14	
SUF	Sumiainen	
OBF0	Syolatti, Pyhajoki	
KU2	Taivalkoski	
TOF	Tornio	
OBF8	Ulkokalla	
VRF	Varrio	
OBF5	Vihanti	
OBF4	Vikkela, Lumijoki	
VJF	Virojoki	
OBF2	Ylipˆ⁄, Raahe	
VAF	Ylistaro	
JYSA		
France		
Alsace		
BAF	Belacker	
CHAF	Chalampe	
CDF	Champ du Feu	
ECH	Echery	
GBF	Grand Ballon	
GWF	Grand Wintersberg	
HOFF	Hoffen	
LANF	Langenberg	
MOF	Molkenrain	
SMM	Ste Marie-Mines	ECH
STR	Strasbourg	
SUBF	Surbourg	
SRBF	Surbourg	
WLS	Welschbruch	
Aquitaine		
ARH	Archignac	
NE10	Arette	
ATE	Arette	
ARTL	Arthez-de-Bearn	
BTH	Betharram	
BOH	Bohocortia	
CESL	Cescau	
LRVF	chˆ¢teau la Riviˆ¤re	
ELYF	Elaudy	
ESCF	Escot	
PYF	Esparros	EPF
EPF	Esparros	
ETSF	Etsaut	
ISSF	Issarbe	
JAU	Jaout	
LACL	Lacq	
USIL	Lacq-Usine	
LFF	La Frestale	
LAGL	Lagor	
LARF	Larrau	
NE09	Les Eyzies	
LHE	Lhers	
LDBL	Lucq-de-Bearn	
MADF	Madeleine	
MONL	Mont	
REYF	Montagne du Rey	
ONF	Office Forets	
OGE	Ogeu	
ORDF	Ordiarp	
OSML	Os-Marcillon	
OSSF	Osses	
SJPF	Ste Jean	
TERF	Tercis-les-Bains	
URDF	Urdˆ¤s	
Auvergne		
ACDF	Aurillac	
BGF	Bois d'Agland	
NE16	Clermont-Ferrand	CFF
CFF	Clermont-Ferrand	
COLF	Collangettes	
PLDF	La Plantade	
LBL	Lubilhac	
MAF	Mazirat	
MZF	Mazirat	
PYM	Petit Puy Manson	
PDD	Puy-de-Dome	
AGO	Saint Agoulin	
Basse-Normandie		
LDF	La Druitiere	
FLN	La Foliniere	
SSC	Saint Sauveur de Carouges	
Bourgogne		
AVF	Avril sur Loire	
AVFP	Avril sur Loire	
GRC	Garchy	
LBF	Les Buteaux	
LOR	Lormes	
MLV	Malvaux	
POU	Pouilloux	
SSF	Saint Saulge	
SSF1	Saint Saulge	
SMF	Signal de Mont	
Bretagne		
BST	Brest	
LPF	Le Pertre	
QUIF	Quistinic	
RENF	Rennes	
ROSF	Rostrenen	
SGMF	Saint Gilles	
Centre		
NE08	Aigurande	
CLF	Chambon-Foret	
HYF	Humbligny	
Champagne-Ardenne		
MEZF	Maizieres J'ville	
RFYF	Reffroy	
RMSF	Reims	
SFTF	Sexfontaines	
Corse		
AJAF	Ajaccio	
AJAC	Base Areonavale d'Aspretto	
CVF	Calvi	
CORF	Corte	
OSPF	L'Ospedale	
LURI	Luri	
MORSI	Morsiglia	
BONIF	Phare de Pertusato	
PGF	Pioggiola	
SMPL	Sampolo	
CHIF	Chize	
TURF	col de Turini - Moulinet	
D01	D01	
D50	D50	
D51	D51	
D53	D53	
PAGF	Fort de Pagny la Blanche C˜-te (52)	
FDAF	Les Forges d'Abel	
NAFE	NAFE	
MIOU	Port Miou	
STOF	St-Etienne Orgue	
EILF	Villa Eilenroc - Antibes	
Franche Comte		
BSF	Ballon Servance	
BES	Besancon	
CNF	Cerre-les-Noroy	
CHMF	Charmoille	
OG05	Jujurieux	
CABF	La Chapelle	
LOMF	Lomont	
MDGS	Mont de Guillon, France	
ROF	Roppe	
VOU	Vouglans	
Ile-de-France		
PAR	Paris	
NE07	Villiers-Adam	VDM
VDM	Villiers-Adam	
Languedoc-Rousillon		
PERF	Col du Perthus	
FILF	Fillols	
LRDF	Laroque-de-Fa	
MTLF	Montolieu	
MTHF	Mouthoumet	
SJAF	Saint Jean de L'Alberes	
SMCF	Saint Martin du Canigou	
TRGS	Targassone	
TRBF	Trabuc cave	
VALF	Valcebollere	
VDCF	Villefranche	
Limousin		
FRNF	Fournols	
LSF	La Souterraine	
RJF	Les Rejaudoux	
NE18	Les Rejaudoux	RJF
SER	Sermur	
TCF	Toulx Ste Croix	
VERF	Verneugheol	
Lorraine		
BACF	Baccarat	
HAU	Haudompre	
HINF	Hinteralfeld	
THEF	They Montfort	
VITF	Vittel	
Midi-Pyrenees		
BDB	Bagneres-Bigorre	
CAF	Calviac	
CARF	Carcanieres	
RESF	Ens	
ENSF	Ens	
FESP	Espira	
GRBF	Gourbit	
LABF	Labassere	
LPEF	Le Peyrat	
LPO	Le Pouchou	
LESF	Lescure	
LSPF	Lesparou	
PYLO	Lourdes	
MELF	Melles	
MONQ	Montcuq	
FMON	Montousˆ¹	
MLS	Moulis	
FNEB	N˜bias	
SALF	Salau	
VIEF	Viey	
Nord-Pas-de-Calais		
BAIF	Baives	
DOMF	Dompierre	
GIVF	Givet	
LIL	Lille	
Pays de la Loire		
GRR	Gorron	
LMF	Le Mans	
PIAC	Piriac/mer	
SGR	Segre	
Picardie		
MENF	Mencas	
Poitou-Charentes		
OLEF	Ile d'Oleron	
LCHF	La Chataigneraie	
LRYF	La Roche-sur-Yon	
MATF	Mathat	
PRYF	Perigny	
MFF	Saint Martin du Fouilloux	
Provence-Cote d'Azur		
OG22	Abries	
ANTF	Antibes	
ARBF	Arbois	
OGAG	Argentiere	
ARTF	Artigues	
ASPF	Aspremont	
AURF	Auriere	
BELV	Belvedere	
BERF	Bertagne	
OG15	Briangon	
CDR	Cadarache	
CAGN	Cagnes-sur-Mer	
CALN	Calern	
CALF	Calern	
CMF	Cannet Maures	
SAUF	chˆ¢teau de Saumane	
CHDN	Chaudanne	
CBBF	Combe Brimond	
CREF	Crivoux	
OGDI	Digne	
FLAF	Flassans-sur-Issole	
FOUF	Fouillouse	
GANF	Ganagobie	
GELF	Grande-Etoile	
ISO	Isola	
JAUF	Jausiers	
BSTF	la Bastide-des-Jourdans	
FRF	La Foret Royale	
LMR	La Mourre	
AUTN	L'Aution	
OG25	Le Caire	
BLAF	les Blancs	
ESCA	l'Escarene	
LRG	Lorgues	
LUCF	Luceram	
MAR	Marseilles	
MLYF	Mely	
MENA	Menton	
MBDF	Montbardon	
NICEF	Mont Chauve - France	
TOUF	Mont Tournerait	
MUIF	Mont Vial	MVIF
MVIF	Mont Vial	
NCER	Nice Cerbom	
NCAU	Nice, cimetiˆ¤re Caucade	
NCAD	Nice - Cite Administrative des Alpes-Maritimes	
NPOR	Nice, Eglise du Port	
NALS	Nice, Jardin Alsace-Lorraine	
NLIB	Nice, Liberation	
NBOR	Nice, Mont Boron	
NROC	Nice, Saint-Roch	
PRAF	Pradon	
PUYF	Puyloubier	
LEPF	PUYLOUBIER	
REVF	Revere	
OG20	Riallon	
ROG	Rognes	
ROU	Rougiers	
RUSF	Rustrel	
OG21	Saint-Cripin	
STET	Saint-Etienne-de-Tinee	
OG19	Saint-Julien-en-Beauchene	
OG14	Saint-Maurice-en-Valgodemard	
SURF	Saint Ours	
SAOF	Saorge	
SMRF	Simiane la Rotonde	
ASEAF	Site Antares, Toulon	
SBF	Sospel	
SLAF	St Laurent du Var	
SPF	St-Paul-en-Foret	
TAVF	Tavernes	
TREF	Trevaresse	
TRIGF	Trigance	
VILF	Villemus	
Rhone-Alpes		
OG18	Albannette	
OG24	Aussois	
BROM	Bains de Bromines	
BOF	Bonneval	
OG32	Castellane	
OG13	Choranche	
OG16	Combovin	
OG08	Commelle	
OG35	Corcelles	
OG29	Digne	
OGMO	Fort Saint-Gobain, Modane	
GDM	Grand'Maison	
GGF	Granges-Gontardes	
GRN	Grenoble	
GRN*	Grenoble	
OG28	Izon-la-Bruisse	
OG04	La Clusaz	
LNS	Lanslevillard	
LPL	La Plagne	
LPG	La Plagne	
OG27	Meolans	
OG02	Monnetier-Mornex	
OG11	Montagny	
MNY	Monteynard	
OG06	Moye	
OG34	Musihges	
ORIF	Oris-en-Rattier	
PCHF	Pas de la Coche	
OG17	Prunihres	
RSL	Roselend	
OG33	Roure	
OG07	Sainte-Reine	
OG10	Saint-Etienne-de-Cuines	
VIVF	Saint-Julien-le-Roux	
OGSM	Saint Maurice de Rotherens	
OCF	Saint Nazaire	
SSB	Saint Sauveur en Rue	
OG09	Saint-Thibaud-de-Couz	
OG03	Samoens	
OGSI	Sixt	
SOU	Souberoche	
LASF	Ste Croix	
OG26	St.-Nazaire-Desert	OCF
OG23	Tende	
OG01	Vacheresse	
OG12	Villaroger	
OG30	Villeneuve d'Entraunes	
FYR Macedonia		
BELI	Belica	
BIA	Bitola	
KAY	Katlanovo	
KOZJ	Kozjak Brana	
KRUS	Krusevo	
LIP	Lipkovo	
MYG	Matka	
KPJ	Monastery St. Joachim Osogovski	
OHR	Ohrid	
SAMO	Samokov	
SKO	Skopje	
STIP	Stip	
VAY	Valandovo	
Germany		
Baden-Wurttemberg		
BUCH	Bad Urach	
BEU	Beuren	
BFO	Black Forest	
BHBD	Braunhartsberg	
BREM	Bremgarten	
BRET	Bretten	
BUH	Buhlerhohe	
EFR	Efringen	
ENDD	Endenburg	
ENGD	Engstlatt	
ERPF	Erpfingen	
FEL	Feldberg	
FELD	Feldberg im Schwarzwald	
FBB	Freiburg im Breisgau	
FWS	Furtwangen	
GUT	Gutenstein	
HSND	Hausen	
HEI	Heidelberg (Koenigstuhl)	
HDH	Heidenheim-Charlottenhoehle	
HOH	Hohenheim	
HTN	Hohentengen	
HUN	Hundersingen	
JUND	Jungingen	
KRL	Karlsruhe	
KRW	Karlsruhe West	
KIZ	Kirchzarten	
BERGE	Lenzkirch (DE)	
LBG	Lerchenberg	
LIBD	Limburg	
LOES	Loerrach-Stetten	
MSS	Messtetten	
METMA	Mettma DE	
MSG	Moessingen	
NEI	Neipperg	
OFBG	Offenburg	
OPP	Oppenau	
RAV	Ravensburg	
SWS	Schriesheim-Wilhelmstollen	
SGW	Sigmaringen-Wittberg	
SIND	Sindeldorf	
SISB	Singen-Schiener Berg	
SPAK	Spaichingen-Kochelsberg	
STAB	Staufenbuehl	
STAU	Staufen im Breisgau	
STU	Stuttgart	
TUB	Tubingen	
TUBL	Tuebingen-Lennartz	
UBR	Ueberruh	
WEIL	Weil am Rhein	
WYH	Wyhlen	
Bayern		
ALTM	Altmuhljura-Amtmannsdorf	
BHG	Bad Reichenhall	
BGLD	Berchtesgaden	

Code	Station Name	Other
CHKA	Cham-Katzbach	
FALK	Falkenberg	
I26DE	FREYUNG INFRASONIC ARRAY REFERENCE POINT	
FUR	Furstenfeldbruck	
PART	Garmisch-Partenkirchen	
GAP	Garmisch-Partenkirchen	
GAPA	Garmisch-Partenkirchen	
GERES	GERESS Array Beam Reference Point	
GEA0	GERESS Array Site A0	
GEA1	GERESS Array Site A1	
GEA2	GERESS Array Site A2	
GEA3	GERESS Array Site A3	
GEB1	GERESS Array Site B1	
GEB2	GERESS Array Site B2	
GEB3	GERESS Array Site B3	
GEB4	GERESS Array Site B4	
GEB5	GERESS Array Site B5	
GEC1	GERESS Array Site C1	
GEC2	GERESS Array Site C2	GERES
GEC2A	GERESS ARRAY SITE C2A	
GEC2B	GERESS ARRAY SITE C2B	
GEC3	GERESS Array Site C3	
GEC4	GERESS Array Site C4	
GEC5	GERESS Array Site C5	
GEC6	GERESS Array Site C6	
GEC7	GERESS Array Site C7	
GED1	GERESS Array Site D1	
GED2	GERESS Array Site D2	
GED3	GERESS Array Site D3	
GED4	GERESS Array Site D4	
GED5	GERESS Array Site D5	
GED6	GERESS Array Site D6	
GED7	GERESS Array Site D7	
GED8	GERESS Array Site D8	
GED9	GERESS Array Site D9	
GG-GR	Grafenberg	
GRFO	Grafenberg	
GG-	Grafenberg Ar.	GG-GR
SB-	Grafenberg Ar.	GRF
GRF	Grafenberg Array	
GRA3	Grafenberg Array	
GRA2	Grafenberg Array	
GRB1	Grafenberg Array	
GRB4	Grafenberg Array	
GRC1	Grafenberg Array	
GRC4	Grafenberg Array	
GRC2	Grafenberg Array	
GRA1	Grafenberg Array	GRF
GRC3	Grafenberg Array	
GRB3	Grafenberg Array	
GRB5	Grafenberg Array	
GRA4	Grafenberg Array	
GRB2	Grafenberg Array	
MGBB	Grossbuechelberg	
MHAI	Haid-Arzberg	
RHAM	Hammer	
HOF	Hof	
HROE	Hohe Rhon--Flad	
RJOB	Jochberg	
MANZ	Manzenberg	
RMOA	Moar Alm	
MNH	Munich	
NAPF	Napfberg	
RNHA	Neuhaus	
NORI	Noerdlinger Ries-Bissingen	
RNON	Nonn-Bad Reichenhall	
NRD	Nordlingen	
NOTT	Nottersdorf	
OBER	Oberstdorf	
MROB	Rosenbuehl-Arzberg	
ROTZ	Rotzenmuhle	
MSBB	Schoenbrunner Berg-Wunsiedel	
VIEL	Selb-Vielitz	
WET	Wettzell	
RWMO	Wildenmoos	
MZEK	Zeckenberg-Ebnath	
Berlin		
BRN	Berlin	
BRL	Berlin--Free University	
BRNL	Berlin--Lankwitz	
Brandenburg		
POT	Potsdam	
A01	A01	
A02	A02	
A04	A04	
A05	A05	
A06	A06	
A07	A07	
A08	A08	
A09	A09	
A10E	A10E	
A11E	A11E	
A12	A12	
A13	A13	
A14	A14	
A15	A15	
A16E	A16E	
A17	A17	
A18	A18	
A19	A19	
A20	A20	
A21E	A21E	
A33	A33	
A50	A50	
A51	A51	
A52	A52	
A53	A53	
A54E	A54E	
A70	A70	
A71	A71	
A72	A72	
A80	A80	
A82	A82	
A83	A83	
A84	A84	
A85	A85	
ASSE	Asse, Remlingen/Germany	
B01	B01	
B02	B02	
B03	B03	
B04	B04	
B05	B05	
B06	B06	
B07	B07	
B08	B08	
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B67	B67	
B70	B70	
B71	B71	
B72	B72	
B73	B73	
B74	B74	
B75	B75	
B82	B82	
FLTG	Flechtingen	
GORE	GORE	
GTTG	Gvttingen	
LAGB	Langenfeld Grube Bendisberg	
LENE	LENE	
MLFH	Mildenfurth	
RUE	Ruedersdorf	
T10G	T10G	
T11G	T11G	
T12G	T12G	
T13G	T13G	
T14G	T14G	
T15G	T15G	
T16G	T16G	
T17G	T17G	
T18G	T18G	
T19G	T19G	
T1BG	T1BG	
T1MG	T1MG	
T21G	T21G	
T22G	T22G	
T24G	T24G	
T25G	T25G	
T26G	T26G	
T27G	T27G	
T28G	T28G	
T29G	T29G	
T2BG	T2BG	
T2MG	T2MG	
T30G	T30G	
T31G	T31G	
T32G	T32G	
T33G	T33G	
T34G	T34G	
T35G	T35G	
T36G	T36G	
T37G	T37G	
T38G	T38G	
T39G	T39G	
T3BG	T3BG	
T3MG	T3MG	
T40G	T40G	
T41G	T41G	
T42G	T42G	
T43G	T43G	
T45G	T45G	
T46G	T46G	
T48G	T48G	
T49G	T49G	
T4BG	T4BG	
T50G	T50G	
T51G	T51G	
T52G	T52G	
T53G	T53G	
T54G	T54G	
T55G	T55G	
T5BG	T5BG	
T60G	T60G	
T61G	T61G	
T6BG	T6BG	
T6MG	T6MG	
T7BG	T7BG	
T7MG	T7MG	
T9BG	T9BG	
TBBG	TBBG	
HES	Velbert-Hespertal	
Hamburg		
HAM	Hamburg	
Hessen		
GWBC	Aumenau	
WBH	Biblis	
WBG	Bieber	
WBB	Darmstadt	
ESP	Espenschied	
WBA	Furth	
HAT	Hattorf	
JUG	Jugenheim	
WBD	Lorch/Rhein	
GWBF	Romrod	
TNS	Taunus Mts	
TOD	Tromm	
UBBA	Unterbreizbach	
GWBE	Wiesbaden	
Mecklenberg-Vorpommern		
LID	Liddow	
RGN	Rugen	
Niedersachsen		
CLZ	Clausthal	
GTT	Gottingen	
NRDL	Niedersach Riedel	
RETH	Rethem/Aller, Germany	
Nordrhein-Westfalen		
BA01	Aachen	
AAC	Aachen	
BAHL	Ahlen	
BAVN	Auguste-Victoria Mine North	
BA12	Beaesweiler	
BNS	Bensberg	
BA09	Bensberg	
BEG	Bergheim	
BD01	Bergheim Laurentius Kirche	
NE35	Billerbeck	
BOC	Bochum	
NE36	Bochum	
BUG	Bochum--University	
BD11	Borschemich	
BD12	Bourheim	
CLG	Cologne	
BA08	Dellbruck	
DREG	Dreilaegerbach Talsperre	
BA11	Duren	
ENTS	Ennepetalsperre	
BA04	Fiesheim UWZ	
BA17	Glehn	
GSH	Grosshau	
BD04	Gut Margarthenhoehe	
BD05	Hambach	
BD08	Hambach Funkstation	
HMES	Hamm, Michael-Ende-School	
BA15	Heimerzheim	
HRH	Heinrich-Robert Mine	
BA13	Heinsberg	
BZER	Hlnxe	
BD09	Hochneukirch	
HOBG	Hohbusch	
HOK	Hohkeppel	
BA06	Horem	
BHXE	Hunxe	
IBBE	Ibbenbueren East	
IBBS	Ibbenbueren South	
IBBN	Ibbenburen	
BD13	Immerath	
JCK	Jackerath	
JUE	Julich	
KLL	Kalltalsperre	
BA10	Klein Altendorf	
BA19	Koln Dom Grabung	
BA26	K¯¶ln Uni	
BA07	Koln University	
NE39	Krefeld	
BD14	Kuckum	
LAUG	Laupendahl	
MEC	Mechernich	
NE34	Mettingen	
BD03	Millendorf	
MWG	Munster	
OLFT	Oleftalsperre	
BD10	Pesch	
PLH	Pulheim	
BRHE	Rheinberg	
RPM	Rheinpreussen Mine	
RODG	Roetgen-Dahlheim	
BD07	Roetschberg	
BHOF	Ruhr-University Bochum -- Hof Stiepel	
BKLB	Ruhr-University Bochum--Klosterbusch Mine	
BULI	Ruhr-University Bochum - Language Institute	
BSHA	Ruhr-University Bochum- -Staatshockbauamt	
BTEZ	Ruhr-University Bochum--Technical Center	
BA05	Sindorf	
SORT	Sorpetalsperre	
BA18	Steinbach	
STB	Steinbach	
BA02	Stolberg	
BD02	Tagebau Bergheim	
BD15	Terra Nova	
TDN	Todenfeld	
BA16	Vanikum	
WBS	Wahnbachtalsperre	
RWB	Wassenberg	
BA03	Weissweiler	
BA14	Wollersheim	
NE41	Zyfflich	
Rheinland-Pfalz		
ABH	Alteburg	
AHRW	Bad Neuenahr-Ahrweiler	
BIW	Bindweide	
BLI	Bleialf	
BGG	Burgeitz	
DUP	Duppenweiler	
FACH	Fachingen	
HILG	Hillesheim	
FSH	Hochheid	
IMS	Imsbach	
KTD	Kalmit	
KOE	Koeppel	
PEB	Petersbachel	
PIR	Pirmasens	
RIVT	Riveris	
RUP	Ruppelstein	
BHE	Schloss Buerresheim	
LOH	Wallersheim-Loch	
Sachsen		
BRG	Berggiesshubel	
CLL	Collm	
FBE	Freiberg	
GUNZ	Gunzen	
LEI	Leipzig	
MULD	Muldenberg	
TRIB	Obertriebel	
ROHR	Rohrbach	
SCHF	Schoenfels	
TANN	Tannenbergsthal	
WERD	Werda	
WERN	Wernitzgruen	
WUET	Wuestenhain	
Sachsen-Anhalt		
HLE	Halle	
NEUB	Neuenburg	
WIMM	Wimmelburg	
Schleswig-Holstein		
BSEG	Bad Segeberg	
HLG	Helgoland	
Thuringen		
CRUX	Bergwerk Schwarze Crux	
CHRS	Christianenhaus	
HKWD	Heukewalde	
HWTS	Hohenwarte Talsperre	
JEN	Jena	
KBDG	Kleinbodungen	
ABG1	Leinawald	
GRZ1	Mausoleum Waldhaus Greiz	
MODW	Modelwitz	
MOX	Moxa	
PLN	Plauen	
SCHD	Schmiedefeld	
SON	Sonneberg	
ZEU	Talsperre Zeulenoda	
TAUT	Tautenburg	
VITZ	Vitzeroda	
WESF	Westfeld	
Greece		
Crete		
AGN1	Agios Nikolaos	
IDI	Anoyia	
ARK1	Arkalochori	
CHAN	Chania	
CH01	Chania	
CH02	Chania	
FODE	Fodele	
GAVD	Gavdhos	
GVD	Gavdhos	
GVDS	Gavdos	
GOR1	Gortina	
HRKL	Herakleio	
HER1	Herakleio	
HER2	Herakleio	
HER3	Herakleio	
IACM	Heraklion	
IMMV	Iera Moni Metamorfosis, Varipetro, Chania, Crete	
FRMA	Ierapetra Chania	
THT2	Imerovigli	
KLMT	Kalamata	
KLDN	Kaloudiana Chania	
KARN	Karanos	
KRPT	Karpathos	
KSTL	Kastelli Heraklio	
KERA	Keramoti	
XRY	Khrisi	
KIS1	Kissamos	
KOSK	Kos Island	
KRIS	Kristallenia	
KTHR	Kythira	
LAST	Lasithi	
APEZ	Moni Apezanon	
NPS	Neapolis	
KNDR	Palaiochora Chania	
PLC1	Palaiochora Chania	
PRNS	Prines Rethymno	
RTH1	Rethymnon	
RODP	Rodopos	
SFK1	Sfakia	
SIT2	Siteia	
STIA	Sitia Lasithi	
SIVA	Sivas	
SKOR	Skordalos	
AKRT	Stavros Akrotiri	
CH03	Technical University Creta	
TMBK	Timbaki Heraklio	
VAM	Vamos	
ZKR	Zakros	
ACOR	Acrocorinthos	
VAG	Aggia Anna	
MHLO	Agia Marina, Milos Island	
AGT1	Agia Thekli	
AXAR	Agios Charalampos	
EFSA	Agios Efstratios	
AGG	Agios Georgios	
AGEO	AgiosGiorgios, Aigialia, West Greece	
AIOA	Agios Ioannis, Aigialia, West Greece	
DYR	Agios Nikonas	
AGRP	Agrapidokambos, Nafpaktia, West Greece	
AGR2	Agrinio	
AIA1	Aiani, KOZANI	
AIG2	Aigio	
AKR1	Akrata	
ALN	Alexandroupolis	
ALX2	Alexandroupolis	
ALIK	Aliki, Aigialia, West Greece	
ALNA	Alonissos	
AOS	Alonnisos	
AMOR	Amorgos	
AMGA	Amorgos Island	
ANAF	Anafi Island	
KFL	Anninata	
ANX	Ano Chora	
ANKY	Antikythira Island	
APE	Apeiranthos	
APER	Aper	

Code	Station Name	Other
AXS	Araxos	
ARX	ARAXOS	
AOL1	Archaia Olimpia	
ARE2	Areopolis	
ARG2	Argostoli	
KES18	Argostoli (Greece)	
KES22	Argostoli (Greece)	
KES16	Argostoli (Greece)	
KES02	Argostoli (Greece)	
KER02	Argostoli (Greece)	
KES04	Argostoli (Greece)	
KES06	Argostoli (Greece)	
KES08	Argostoli (Greece)	
KES11	Argostoli (Greece)	
KES13	Argostoli (Greece)	
KES14	Argostoli (Greece)	
KES29	Argostoli (Greece)	
RHD	Arkhangelos	ARG
ARG	Arkhangelos	
ART2	Arta	
AMT	Artemida-Makistos	
AST1	Astakos	
ATAL	Atalanti	
ATU	Athens Obs.	ATH
ATH	Athens Observatory	
ATHU	Athens University	
THT1	Athinios (Pelekanos)	
CHV1	Chavriata, Kefallonia	
CHOS	Chios island	
CMBO	Columbo, Santorini Isl.	
DMLN	Damoulianata-Kefalonia-Greece	
DLFA	Delphi	
DVI	Derveni	
DESF	Desfina	
DSF	Desfina	
DID	Didima	
DIDY	Didyma	
DIMT	Dimitropoulo, Aigialia, West Greece	
DION	Dionisos Attiki	
DDN	Dodoni	
DRAG	Dragano-Lefkada	
DRA2	DRÀMA	
DRO	Drossia	
EFP	Efpalio	
EPID	Epidavros	
ERET	Eretria	
EREA	Eretria	
VTH	Erithrai	
EVR	Evrytania	
EXG	Exogi	
PIR2	Faliron Pireas	
VFI	Filaki	
THR7	Fira-Santorini	
FSK	Fiskardo	
FNA	Florina	
FLO2	Florina	
SFIR	Foira Santorini	
KEFOR	Forestry Corps, Argostoli (Cefalonia, Greece)	
FYTO	Fytoko, Volos	
RGE1	Gennadi, Rhodes Island	
MGER	Gerania Oros	
SNT1	Gialos, Santorini	
VGL	Glafira	
GUR	Goura	
GRE3	Grevena	
GRG	Griva	
GTH2	Gythion	
HORT	Hortiatis	
YDRA	Hydra	
IGT	Igoumenitsa	
IOSP	Ios island	
ITE1	Itea	
ITC1	Ithaki	
ITHO	Ithomi	
ITM	Ithomi	
JAN	Janina	
JAN2	Jannena	
JAN3	Jannena	
KLR1	Kalamaria	
KAL3	Kalamata	
KLV1	Kalavrita	
KLV	Kalavryta, Achaia	
KALE	Kalithea	
RKL1	Kallithies, Rhodes Isl.	
KMV1	Kammena Vourla	
KRL1	Karlovasi Samou	
KARP	Karpathos	
KAP	Karpathos	
SAP2K	Karterados	
SNT3	Karterados, Santorini	
KARY	Karystos	
KASA	Kassiopi	
KSS1	Kassos Island	
KTI	Kastanea	
KSL	Kastellorizon	
KAS2	Kastoria	
KSO	Kastoria	
KAC1	Kato Achaia	
VRS	Kato Vasiliki	
RKT1	Kattavia Rhodes Isl.	
KAVA	Kavala	
KVLA	Kavala	
KVR	Kavouri	
KNT	Kendrikon	
KRI1	kERI	
KRK1	kERKIRA	
KEK	Kerkira	
XIO	Khios Island	
KIF1	Kiffisia	
KPRO	Kipourio	
MKIT	Kithairon Oros	
KYTH	Kithira	
KMT1	Komotini	
KNS	Konitsa	
KNS1	Konitsa	
KOR2	Korinthos	
KOUM	Koumaradei	
KZN	Kozani	
KOZ2	Kozani	
KRND	KRANIDI	
KYM1	Kymi	
KYMI	Kymi, Euboea Island, Greece	
MES3	Kyparissia	
KYP2	Kyparissia	
KTHA	Kythira Island - Agia Moni	
LSM0	Laboratory Soil Mechanics	
LSM1	Laboratory Soil Mechanics	
LMS2	Laimos Florinas	
LAKA	Lakka	
LRSO	Larissa Observatory	
LKD2	Lefkada island	
EVGI	Lefkada island	
LEF2	Lefkas	
LEO1	Leonidio	
LKD	Levkas	
LOS	Limnos	
LIA	Limnos Island	
RLN1	Lindos, Rhodes Isl.	
LIT	Litokhoron	
LXR1	Lixouri, Cephalonia isl., Greece	
LKR	Lokris	
LTRA	Loutraki	
LOUT	Loutraki	
LTK	Loutraki	
MG00	Magoula, Dorida, Central Greece	
MAKR	Makrakomi, Fthiotida	
MALA	Malamata, Dorida, Central Greece	
MAMO	Mamousia	
VMA	Markates	
MRKA	Markates	
MRMA	Marmari	
MGP1	Megalopolis	
MGNA	Meganis„„	
MSL1	Messolongi	
MES2	Methoni	
MEV	Metsovon	
MHL	Milos	
LMN1	MIRINA LIMNOU	
MNVA	Monemvasia	
MOS1	Moschato	
NFP	NAFPAKTOS	
NAX1	Naxos Island	
VOL3	Nea Ionia, Volos	
SNT5	Nea Kammeni, Santorini	
NPS1	Neapolis Laconias	
NMA1	Nemea	
VNE	Neochorion	
NEO	Neokhori	
NEST	Nestorio	
NVR	Nevrokopi	
NISR	Nisiros	
NAIG	Nisos Aigina	
NSAL	Nisos Salamina	
NIS1	Nisyros Isl.	
NIS2	Nisyros Isl.	
NIS3	Nisyros Isl.	
NIS4	Nisyros Isl.	
NYDR	Nydri-Lefkada	
OUR	Ouranopolis	
DSL	Palaion Diasellon	
PLR1	Paliouri	
PAIG	Paliouri	
PANR	Panormos, Dorida, Greece	
PRK	Paraskevi	
PVO	Paravola	
RGA	Parga	
MPAR	Parnis Oros	
PAT4	Patras	
PAT	Patras	
VPA	Pavliani	
PENT	Pentalofos	
PTL	Penteli	
PER1	Peristeri Attica	
PSDA	Pessada-Kefalonia	
PET1	Petalidi	
PLA1	Pilaia Thessaloniki	
PIR3	Pireas	
PIR1	PIREAS,	
MHLA	Plaka, Milos Island	
VIL2	Platees	
PLG	Polygyros	
PRE2	Preveza	
PROD	Prodromos	
PDO	Prodromos	
PSRA	Psara	
PSARO	Psaromita, Dorida	
PSA1	Psathopyrgos	
PTO1	PtolemaidÀ	
PYL2	Pylos	
PYL	PYLOS	
PYR2	Pyrgos	
PYR3	PYRGOS	
PYRG	Pyrgos, Dorida, Greece	
PRF2	Region of Thessaloniki	
RHO	Rhodes	
RPN1	Rhodes Hospital	
RDI1	Rhodes Town Hall	
RLS	Riolos of Patras	
PAT5	Rio Patras	
RDO	Rodhopi	
RODI	Rodini	
ROD3	Rodini, Patras, West Greece	
SGD	Sagiada	
SMG	Samos	
SMS	Samos	
SMTH	Samothraki Island	
SANT	Santorini	
SAP1	Santorini-Akrotiri	
THR9	Santorini-Faros Akrotiriou	
THR8	Santorini-Monolithos	
SAP4	Santorini-Oia	
SAP3	Santorini-Thirassia	
SPP1	Sappes Rodopi	
SELA	Sela	
SERG	Sergoula	
SERI	Serifos	
SRS	Serrai	
SIA1	Siatista	
SGR1	Siggri Mitillinis	
SIGR	SIGRI	
SMIA	Simia	
VSI	Simia	
SKIA	Skiathos	
SKY	Skiros Island	
VSK	Skopelos	
SKO1	Skopelos Island	
SKY1	Skyros Island	
SOH	Sokhos	
RSO1	Soroni, Rhodes Isl.	
SFL1	Soufli	
STL1	Stavrpu;p[is Thessaloniki	
SFD	Strofades	
STAX	Taxiarchis Harbor, Nea Kameni, Santorini Island.	
TEME	Temeni, Aigialia, West Greece	
THAL	Thalero	
THAS	Thassos island	
THS1	Thassos, Thassos Island	
THR1	Thera Island	
THE	Thessaloniki	
PRF1	Thessaloniki Prefecture	
PRF0	Thessaloniki Prefecture D.H.	
STA0	Thessaloniki S.S. Downhole	
STA1	Thessaloniki S.S. Downhole	
THR6	Thira Island, Akrotiri	
THR5	Thira Island, Kera	
THR3	Thira Island, Nea Kammeni	
THR4	Thira Island, Oia	
THR2	Thira island, Vourvoulos	
THV2	THIVAI	
TNSA	Tinos	
TRAZ	Trapeza	
TRP1	Tripolis, Arkadia	
TRIZ	Trizonia	
TSLK	Tsoukalades, Lefkada island	
UPR	University Campus, Patras University	
VLS	Valsamata	
VSK1	VASILIKIADES	
VSK2	Vassilikiades, Cephalinia Isl.	
VAS2	Vassiliki, Lefkas Island	
VLI	Veliai	
VIL1	Vilia, Western Attica	
VILL	Villia	
VTN	Vitineika	
VLX	Vlachokerasia	
SNT2	Vlychada, Santorini	
VOL	Volimes	
VLMS	Volimes, Zakynthos	
VOL2	Volos	
VVK	Vomvokou	
VLY	Voula,Athens	
VRO1	Vrontados, Chios Island	
VNG	Vunargo	
XAN2	Xanthi	
XOR	Xorichti	
ZAK2	Zakynthos	
ZKS	Zakynthos	
ZAN	Zante	
ZIRI	Ziria, Aigialia, West Greece	
Thessaly		
FRS1	Farsala	
THL	Klokotos Trikala	
LAR4	Larissa	
LAR5	Larissa	
Hungary		
AMBH	Ambrˆ‡zfalva	
RHK1	Bakonya	
RHK2	Bata	
BEHE	Becsehely	
BKE	Bekescsaba	
BSZH	Besenyszˆ¶g	
PKS6	Bocsa	
BUD	Budapest	
PKSC	Csakvar	
CSKK	Csˆ‡kako	
DEB	Debrecen	
GYL	Gyula	
JOS	Josvafo	
KAL	Kalocsa	
PKS2	Kecel	
KEC	Kecskemet	
PKS7	Kunszentmiklos	
LTVH	Lˆtavˆrtes, Hungary	
MPLH	Magyarpolˆ¡ny	
PKSM	Moragy	
MORH	Mˆ‡rˆ¡gy, Hungary	
PKSN	Nyarlorinc	
PENC	Penc	
PSZ	Piszkesteto	
FPOZ	Pozzuolo	
PKS8	Sarbogard	
SOP	Sopron	
SZE	Szeged	
PKS9	Tamasi	
TRPA	Tarpa	
RHK3	Tenkes	
PKST	Tˆ's	
TIH	Tihany	
UZD	Uzd	
PKSG		
ETYK		
Ireland		
ILTH	Belurgan, Co Louth	
ECP	Carnsore Point	
IWEX	Carrickbyrne, Co Wexford	
ECB	Carrickbyrne Hill	
CORK	Cork	
DCN	Croghan	
DSB	Dublin	
DMS	Dublin Merrion Square	
DDK	Dunsink Observatory	
IGLA	Glengowla, Co Galway	
IDGL	Inch Island, Co Donegal	
DKM	Kilmashogue	
DMU	Kingscourt	
DMUB	Kingscourt	
LIMH	Limerick	
DLE	Lyons Estate	
DLF	Lyons Farm	
DUB	Rathfarnham	
ETA	Tara	
VAL	Valentia	
Isle of Man		
WIM	Isle of Man	
IOMK	Kirk Michael	
GIM	North Isle of Man	
Italia		
T1012	Faicchio (BN)	
TREM	Isole Tremiti	
RCAV	Rocca di Cave	
Italy		
T0402	Abbadia di Fiastra (Tolentino)	
NARO	Abbazia di Naro	
ABSI	Aberstueckl	
ABRE	Abriola	
RM31	Accumuli	
ACER	Acerenza	
ACOM	Acomizza, Italy	
T0702	Acquaformosa (CS)	
ADRI	Adria, Italy	
AGOR	Agordo	
ALJA	Alia	
TO02	Allumiere - RM	
AFL	Alpe Faloria	
AMUR	Altamura	
AMI	Amelia	
AM9	Amelia	AMI
ANS	Ancona	
AOI	Ancona	
AND3	Andretta	
ME06	Antenna a Mare	
LANT	Antrodoco	
APEC	Apecchio	
APPI	Appiano	
ACI	Arcavacata	
ARVD	Arcevia	
ARV	Arcevia	
ARCI	Arcidosso	
ARIC	Ariccia	
ARME	Armento	
LRP	Arpino	
AQT1	Arquata del Tronto	
ARRO	Arrone	
VARZ	Arzignano	
ALP	Ascoli Pisceno	
ASOL	Asolo	
MASO	Asolo, Italy	
ASQU	Asqua	
RM28	Assergi	
ASS	Assisi	
ASSB	Assisi San Benedetto	
AZI	Avezzano	
AVG3	Avigliano	
UVAG	Avigliano	
ATCC	AVT- Casa Castalda	
ATLO	AVT- Montelovesco	
ATTE	AVT- Monte Tezio	
ATVA	AVT- Monte Valcinella	
ATVO	AVT- Monte Valentino	
BACM	Baccana	
BADI	Badiali	
BDI	Bagni Di Lucca	
BAG8	Bagolino	
BAI2	Baranello	
TO08	Barbarano Romano - VT	
SBPG	Barcellona Pozzo di Gotto	
BNI	Bardonecchia	
BAI	Bari	
BAI*	Bari	
BRT	Bari-Castellana	
BRSN	Barisano	
RM14	Barisciano	
BSS	Baronissi	
BEL3	Bella	
BLLA	Bellaria	
BNV	Benevento	
BERI	Bernadia	BAD
BAD	Bernadia	
BIBN	Bibbiana	
MOCO	Biccari - m.te Cornacchia	
BSC3	Bisaccia	
BOB	Bobbio (Coli)	
CCE3	Bocca Seriola	
BOL	Bologna	
BLZ	Bolzano	
BOSI	Bolzano	
T0805	Bondeno (FE)	
RM20	Borbona	
BOO	Bordano	
BORI	Bordano	BOO
BSL	Borgo	
BL1	Borgo	BSL
BOSL	Borgo San Lorenzo	
BVT	Borgo Val di Taro	
BORM	Bormio	
BRMO	Bormio	
BORS	Borseda	
BOTT	Botticino	
BOTM	Botticino Mattina	
BRES	Bressanone	
GRDB	Briano	
BHB	Bricherasio	
BRIE	Brienza	
BRIS	BRISIGHELLA	
ME04	Brognaturo	
BUA	Buia	
BUII	Buia	BUA
BULG	Bulgheria - Camerota	
BSSO	Busso	
FCAB	Cabia	
CGG3	Caggiano	
CKI	Cairo Montenotte	
MCRV	Calabrutti - M.te Cervialto	
CALI	Calice al Cornoviglio	
CLTR	Calitri	
CLT3	Calitri	
CCLV	Calvizzano	
TCMO	Camaiore	
CIO	Camerino	
CMR	Camerino	
CMP3	Campagna	
CMPR	Campora	
T0715	Campotenese	
CAMP	Campotosto	
CMPO	Campotto Po	
TO03	Canale Monterano - RM	
FG4	Candela	
CAE	Caneva	
RE02	Canossa - RE	
ATCA	Cantone	
ACAP	Capistrello	
CADA	Capodarco di Fermo	
CAP	Capodimonte	
SN1	Capo Mulini Mare	
CVI	Capo Vaticano	

Code	*Station Name*	*Other*
CRE	Caprese Michel	
LEOD	Capriano del Colle	
CAPR	Capriolo	
RM27	Carapelle Calvisio	
CARD	Cardoso	
CRDM	Cardoso	
T0916	Careggine (LU)	
CAFE	Carife	
CRMI	Carmignano	
CARO	Carolei	
CAR1	CAROLEI	
CII	Carovilli	
CRVI	Carovilli	
CPGN	Carpegna, Italy	
PCRP	Carpino	
CPI2	Carpinone	
CSCL	Casacalenda	
T0203	Casalattico (FR)	
RM12	Casamaina	
CAS	Casamari	
CSM	Casamicciola	
OC9	Casamicciola	
T0201	Case Giovannangeli - (Balsorano -AQ)	
CSMI	Casera Mimoias	
CSZ	Casera Razzo	
TCSL	Casola in Lunigiana	
CSI	Cassano Ionio	
CSSN	Cassano Irpino	
CSO	Casso	
CDT	Castel del Monte	
CAFR	Castel Frentano	
CTL8	Castelleone	
CSNT	Castellina Chianti	
T0823	Castello D'Argile (BO)	
RE08	Castello di San Valentino (Castellarano) - RE	
ME07	Castell'Umberto	
T0911	Castelpoggio (MS)	
BCSR	Castelsaraceno	
CTI	Castel Tesino	
AT04	Castiglione Aldobrando (Gubbio) - PG	
CASP	Castiglione della Pescaia	
RM15	Castiglione (Tornimparte)	
CAFI	Castiglion Fiorentino	
CUC	Castrocucco	
T0822	Casumaru (Bondeno - FE)	
CRM1	Catelraimondo	
AT07	Catigliano (Citt^ di Castello) - PG	
MTOM	Cavaso del Tomba, Italy	
LCAV	Cave	
PRED	Cave del Predil	
CAVE	Cavezzo	
CGL1	Ceglie Messapica	
CEL	Celeste	
CELI	Celico	
CNRT	Cenerente	
CAPA	Cerignola FG	
RM30	Cerqua	
CERT	Cerreto	
CRSP	Cerreto di Spoleto	
RM10	Cesaproba (Montereale)	
CESX	Cesi	
CESI	CESI - Serravalle di Chienti	
CSP1	Cessapalombo	
CET2	Cetraro	
CIRO	Champorcher	
CHV	Chiavari	
CAS08	Chiesa Nuova, Poggio Renatico (FE)	
T0820	Chiesuol del Fosso FE	
AR03	Chiusi della Verna (AR)	
CGRP	Cima Grappa	
SALI3	CIMA - Sant'Angelo dei Lombardi	
CIMO	Cimolais	
CING	Cingoli	
CCPC	Citt^ di Castello	
ME10	Cittanova	
CDCA	Citt' di Castello	
CDRU	Civita di Ruta - Ottati	
CIMA	Civitanova Marche	
TO09	Civitella Cesi - VT	
CLA1	Claut1	
CLAB	ClautB	
CLUD	Cludinico	
CODM	Codolo	
AMEN	Colle Ameno	
RM24	Colle Belvedere (Rocca di Mezzo)	
RM07	Collebrencioni	
RM11	Collenoveri	
T0110	Collepietro	
RM02	Colle Roio	
SMB1	Colle San Martino	
COL3	Colliano	
CLLN	Colliano	
RM05	Colli (Barete)	
CLR	Collurania	
COLI	Coloredo	
VARN	Col Varnada, Mel (BL)	
NAPI	Complesso Universitario Monte Sant'Angelo	
CNCS	Concesio	
LCNT	Contigliano	
T0109	Coppito (AQ)	
COR1	Corinaldo	
CRN	Corinaldo	
AD04	Corinaldo (AN)	
COPE	Corleto Perticara	
MCOR	Cornuda	
CRND	Cornuda	
CODE	Correggio	
ZAVE	Correggio Bag	
FANE	Correggio Fan	
MAN1	Correggio Man	
T0815	Correggio (RE)	
SILE	Correggio--Silva	
CRAC	Craco	
CUSI	Cussignacco Udine	
GRDT	Desenzano Tresine	
DPS	Deserto Penisola Sorrentina	
DP1	Deserto P. S.	DPS
DSB1	Difesa San Luca	
ME05	Diga del Menta	
DMD	Domodossola	
T0803	Dosso, Cento (FE)	
DOSS	Dosso del Sommo	
DDS	Dosso del Sommo	
DRE	Drenchia	
DUI	Duronia	
EL6	Elcito	
ENR	Entracque	
EQUI	Equi	
ERBM	Eremo	
ERT	Erto-Casso	
SNTG	Esanatoglia	
EMCN	Etna Monte Conca	
EMFS	Etna Monte Frumento Supino	
FAE	Faenza	
FAEN	Faenza	
FAGN	Fagnano	
MFNN	Fano	
RM18	Fano Adriatico	
MFAN	Fanzolo, Italy	
BFRD	Fardella	
MPRO	Farra di Soligo, Italy	
FASA	Fasano	
FENE	Fenestrelle	
FERB	Ferrara borehole (Italy)	
FERS	Ferrara-Casaglia	
FECT	Ferrara Citta	
FIAM	Fiamignano	
RM08	Filetto	
CERA	Filignano	
FIN	Finale Ligure	
FINB	Finale Ligure	
FDMO	Fiordimonte	
FIR	Firenze	
FIU1	Fiuminata	
FIVI	Fivizzano	
TFIV	Fivizzano	
FG1	Foggia	FOG
FGG	Foggia	FOG
FOG	Foggia	
FOL	Foligno	
UFLG	Foligno	
FFNT	Fontanafredda	
FNVD	Fontana Vidola	
FCOR	Fonte Corniale	
UFCT	Forcatura	
FAU	Forcella Aurine	
FOA	Forni Avoltri	
FVI	Forni Avoltri	
FS1	Fosdinovo	FSI
FSI	Fosdinovo	
FOSD	Fosdinovo	
FOSV	Fossato di Vico	
FSSB	Fossombrone	
AT08	Fraticciola Selvatica (Perugia) - PG	
C004	Frazione Salia	
FRE8	Fregona	
FRES	Fresagrandinaria	
FRON	Frontone	
FROS	Frosini	
FSC	Fuscaldo	
FUSE	Fusea	
GAGG	Gaggia	
GALF	Gagliano Castelferrato	
GAG1	Gagliole	
GMB	Gambarie	
GATE	Gambatesa	
GAVE	Gavelli	
MIR04	Gavello, Mirandola (MO)	
GAZZ	Gazzo Veronese (Italy)	
GEPF	Gemona	
GMNA	Gemona	
GEN	Genova	
GENL	Genova University	
GRFL	Gerfalco	
ME15	Gioiosa Marea	
GRI	Girifalco	
GIUL	Giuliano Di Roma	
T0825	Gonzaga (MN)	
FGRZ	Gorizia	
GORR	Gorreto	
GRAM	Graiana	
GIGS	Gran Sasso	
SGG	Gregorio Matese	
MOSI	Grossmontoni	
GBOS	Grotte di Bossea	
GUMA	Gualdo di Macerata	
GUAR	Guarcino	
GSCL	Gusciola	
IMOL	Imola, Italy	
IMI	Imperia	
INTR	Introdacqua	
FINV	Invillino	
IOCA	Ischia Osservatorio Casamicciola	
GROG	Isola di Gorgona	
GORG	Isola Di Gorgona	
IESO	Jesolo	
JOPP	Joppolo	
KOSI	Kohlern	
LSD	Lago del Serru	
LPEL	Lama dei Peligni	
LPD	Lampedusa	
LAV9	Lanuvio	
AQU	L'Aquila	
T0103	L'Aquila	
LTRZ	Laterza	
LATE	Laterza	
THUI	La Thuile	
LATB	Latina	
LCI	Lecce	
LIV	Leghorn	
LNSS	Leonessa	
SLNS	Linosa	
LIO3	Lioni	
LPI	Lipari	
PR02	Localit^ Poggio-Vacaldola (Sant'Agata Feltria RN)	
T0502	Localit^ San Martino (Sarsina - FC)	
T0821	Loc. Casaglia - Ferrara (FE)	
T0814	Loc. Cortile, Carpi (MO)	
T0818	Loc. Fossa, Concordia sulla Secchia (MO)	
T0828	Loc. Fossoli, Carpi (MO)	
T0824	Loc. Limidi di Soliera, Soliera (MO)	
T0503	Loc. Pratieghi (Badia Tedalda - AR)	
T0812	Loc. Stoppiaro, Poggio Rusco (MN)	
T0817	Loc. Veratica, Salara (RO)	
TLUC	Lucca	
RM01	Lucoli (AQ)	
AT02	Lugnano (Citt^ di Castello) - PG	
LGS3	Luogosano	
LSR	Lussari	
LMD	Lutirano	
MVF	Macchia Valfortore	
MCGN	Macugnaga	
T0104	Madonna delle Grazie (Coppito)	
MAGA	Magasa	
MSSA	Maissana	
MABI	Malga Bissina	
MGRD	Malga Garda, Italy	
MLNI	Malnisio	
MNTV	Mantova	
MARN	Marana (Italy)	
BMAT	Maratea	
AMRC	Marco	
MMAR	Mareno di Piave, Italy	
MA9	Marino	
MRN3	Marsico Nuovo (PZ)	
MARE	Marsico Vetere	
SMET	Mascalucia	
T0800	Massa Finalese, Finale Emilia (MO)	
T0813	Massa Finalese, Finale Emilia (MO)	
MASS	Massafra	
MAIM	Mastiano	
MTL1	Matelica	
MATE	Matera	
MIR01	Medolla (MO)	
MELA	Melanico ??? S. Croce di Magliano	
AD01	Meldola (FC)	
MERA	Merate	
MESG	Mesagne	
RM22	Micigliano	
MIGL	Miglionico	
MIL	Milan	
MILN	Milano	
MLE	Mileto	
FIU	Minerbio Fiu	
PASE	Minerbio--Passere	
TORE	Minerbio--Torre	
MRVN	Minervino Murge	
T0912	Minucciano (LU)	
MIDA	Miranda	
SGIA	Mirandola	
MIR02	Mirandola (MO)	
MIR03	Mirandola (MO)	
ME01	Mistretta	
MODE	Modena	
T0827	Moglia (MN)	
MOLE	Moliterno	
AD03	Mombaroccio (PU)	
MNC	Moncalieri	
MONC	Moncucco Torinese	
AD02	Mondaino (RN)	
MODR	Mondragone	
MONE	Monesi	
AT03	Montalto (Apecchio) - PU	
MN3	Montappone	
MNTP	Montappone	
MA1	Montasola	MNS
MNS	Montasola	
MAB1	Monte Acero	
MAO	Monte Argentario	
MAON	Monte Argentario	
BALD	Monte Baldo	
MMBI	Montebello Ionico	
MBEL	Montebelluna (TV)	
MCIF	Montecalvo in Foglia	
MCI	Monte Cassino	
ATMC	Monte Cedrone	
MTCE	Montecelio	
MME	Monte Cimone	
MCIV	Monte Civitella	
AT11	Monte Civitello	
CZI	Monte Cocuzzo	
MC2	Monte Cornaccione	
N002	Montecucco	
MOCL	Monte Cuccoli	
MDAR	Monte D'Aria	
CMDO	Montedoro	
MF5	Montefalcone Appennino	
FEMA	Monte Fema	
ATFO	Monte Foce - Gubbio	
MGAB	Montegabbione	
MGIO	Monte Giove	
MGRO	Montegrosso	
MTCR	Monte La Croce	
SSFR	Montelago di Sassoferrato	
MML1	Montelago di Sefro	
CC03	Monteleto	
MNT3	Montella	
MTLO	Montello	
TV6	Monte Luro di Tavullia	
GRDM	Monte Maddalena	
MOMA	Monte Martano	
MSC	Monte Massico	
MMO1	Montemonaco	
MMUR	Monte Murano	
MPAG	Monte Paganuccio	
PZZT	Monte Pizzetto	
MPRI	Monte Prat	
MTRZ	Monterenzio	
MRB1	Monte Rocchetta	
SEST	Monte Rota	
MSAG	Monte S. Angelo	
MTSN	Montesano sulla Marcellana	
SMTM	Monte Santa Maria Tiberina	
FGMS	Monte Sant'Angelo	
MS1	Monte Sant'Angelo (FG)	
MSB1	Montesarchio	
SIRI	Monte Sirino - Moliterno	
MURB	Monte Urbino	
VULT	Monte Vulture - Melfi	
MCEL	Monticello	
MDI	Monti di Nese	
MNTT	Montottone	
T0401	Montottone (Fermo)	
MRGE	Morge	
MGR	Morigerati	
MMN	Mormanno	
RM25	Mosicchio (Amatrice)	
MTTG	Motta San Giovanni	
SABO	M.te Sabotino	
FG3	Mte Sant'Angelo	
RE1	Mte Valcellina	RCL
RCL	Mte Valcellina	
MRVI	Mt Valcellina	RCL
MRLC	Muro Lucano	
SCL3	Muro Lucano (Serra Campolungo)	
VDS3	Muro Lucano (Varco Staccarino)	
NPL	Naples	
NARN	Narni	
NEVI	Neviano degli Arduini	
ENIC	Nicolosi	
NOCI	Noci	
NL9	Nola	
NRCA	Norcia	
UNRC	Norcia	
NOVE	Novellara	
NDIM	Novi di Modena	
ROCE	Novi Di Modena	
NSC3	Nusco	
CAS01	Occhiobello (RO)	
AKR	Ocre	
OFFI	Offida	
UOLM	Olmeto	
OPPE	Oppeano	
OR1	Oriolo Calabro	ORI
ORI	Oriolo Calabro	
ORO	Oropa	
ORX	Oropa	
FG5	Orsara di Puglia	
OII	Orti	
ORZI	Orzinuovi	
OSKI	Oschiri	
MOSM	Osimo	
AD06	Osimo (AN)	
MIR07	Ostiglia (MN)	
PAD	Padua	
T0811	Palata Pepoli (BO)	
PALZ	Palazzo San Gervasio	
PLMA	Palmaria, Porto Venere	
ME03	Palmi	
PANI	Panarotta	
PAOL	Paolisi	
PARC	Parchiule	
PRMA	PARMA	
SATI	Passo dei Salati	
RM26	Passo delle Capannelle	
PTCC	Patocco-Chiusaforte	
PLRO	Paularo	
EUCT	Pavia	
PAV	Pavia	
PE3	Peglio	
RM33	Pellescritta (Montereale)	
ME09	Pentidattilo	
UPRP	Perugia	
PRG	Perugia	
PEG	Perugia	PRG
PESA	Pesaro	
PS1	Pesaro	PRO
PRO	Pesaro	
T0204	Pescasseroli (AQ)	
IPES	Pescosannita	
PSB1	Pescosannita	
BBB4	Pezza	
PE1	Pezze di Greco (BR)	
PCN	Piacenza	
PCP	Piancastagn	
RM09	Piano di Cascina (Cagnano Amiterno)	
A001	Piccione	
PIEI	Pieia	
PCRO	Pietralacroce	
PIET	Pietralunga	
CCN3	Pietralunga	
ATPI	Pietralunga - Aviosuperficie	
PIPA	Pietrapaola	
PTRP	Pietrapertosa	
PTQR	Pietraquaria	
PTRJ	Pietraroja	
D002	Pieve de Saddi	
PDC	Pieve di Cadore	
MIR06	Pieve di Coriano (MN)	
PF6	Pievefavera	
PIGN	Pignataro Maggiore	
PGN3	Pignola, Italy	
PNI	Pinerolo	
PIO1	Pioraco	
PII	Pisa	
PIS	Pisa	
N001	Pisciano	
PSL	Pistoia	
RE07	Pizzano Val di Parma - PR	
PLAC	Placanica	
RM32	Poggio Cancelli	
ATPC	Poggio Castellaccio	
T0108	Poggio di Roio	
T0101	Poggio Santa Maria	
AT06	Poggio Sant'Ercolano (Gualdo Tadino) PG	
PGD	Poggio Sodo	
POLC	Polcenigo	
POI	Polino	
PO9	Polino	POI
CPMP	Pompei	
PMP	Pompeii	
POBI	Pontebba	
POPM	Popiglio	
PTC	Porto Cannone	
PDI	Porto d'Ischia	
POFI	Posta Fibreno	
PST3	Postiglione	
PZUN	Potenza	
PZF	Pozza Ferrara, Ferrara di Monte Baldo (VR)	
PLI2	Pozzilli	
EPOZ	Pozzillo	
CMRS	Pozzuoli	

Code	Station Name	Other
IPOZ	Pozzuoli	
MPRD	Prada, Italy	
PTF	Prato	
TPRT	Prato	
VIVA	Pratoni del Vivaro - Roma	
RE06	Pratopiano (Palanzano) - PR	
PRT	Prato-Toscana	
FPRM	Premariacco	
AT01	Promano (Citt^ di Castello) - PG	
MIR08	Quarantoli, Mirandola (MO)	
QRI	Quarto	
QCI	Quattro Castella	
QLNO	Quiliano	
GRDQ	Quinzano	
AT05	Racchiusole (Umbertide) PG	
RBL	Raibl	
B001	Rancolfo	
ARAS	Rassina, Castel Focognano (AR)	
RAVA	Ravarino	
MREF	Refrontolo, Italy	
MRCB	Reggio Calabria	
CRCA	Reggio Calabria	
RCI	Reggio Calabria	
RISI	Rein	
RSP	Reno Superiore	
ATRE	Renzetti	
RESU	Resuttano	
T0205	Ridotti (Balsorano, AQ)	
RGNG	Rignano Grg	
RNI2	Rionero Sannitico	
T0826	Rio Saliceto (MN)	
URVD	Rivodutri	
ROB	Robourent	
RM04	Rocca di Mezzo	
RDP	Rocca di Papa	
RFI	Roccamonfina	
RRL	Rocca Remolon	
RMI2	Roccaromana	
RORO	Rocca Rossa	
RSF3	Rocca San Felice	
RONM	Roccetta Nervino	
RSA3	Rocchetta Sant'Antonio	
ROTM	Rocchetta Tanaro	
RVI2	Rocchetta Volt	
T0106	Roio Piano	
ROM9	Roma	
ROM	Rome	
RMP	Rome, Mte Porzio	
N004	Ronchi	
RONC	Roncone	
RNI	Roncone	
ROI	Rossano	
ROSI	Rosskopf	
T0716	Rotonda - Contrada Piano Incoronata (PZ)	
T0711	Rotonda (PZ)	
RM13	Rovere (Rocca di Mezzo)	
ROVE	Rovereto Di Novi	
ROVR	Rover¨¤ Veronese	
RUFI	Rufina	
RDM3	Ruvo Del Monte	
CAS07	S.Agostino (FE)	
REMY	Saint-Rh¨my-en-Bosses	
SLCN	Sala Consilina	
SLNA	Salina	
SAL	Salo	
SALO	Salr	
SOI	Samo	
T0816	San Bartolomeo in Bosco (FE)	
CAS05	San Carlo, Sant'Agostino (FE)	
SACS	San Casciano dei Bagni	
DOI	San Damiano	
SDI	San Donato	
SANR	Sandrigo	
SFL3	San Fele	
T0802	SanFelice sul Panaro (MO)	
ME02	San Fratello	
SNAL	S. Angelo Dei Lombardi	
USGN	Sangemini	
LIK	San Giovanni Incarico	
SGRT	San Giovanni Rotondo	
MSSG	San Giuliano del Sannio	
TSGT	San Giustino Valdarno	
PCNV	San Giusto Canavese	
SALB	San Lorenzo Bellizzi	
SAVE	San Marco di Savelli	
SMA1	SAN MARTINO	
RM03	San Martino d'Ocre	
LADO	San Nicola dell'Alto	
T0107	San Pelino (Cagnano Amiterno)	
CORR	San Possidonio	
T1011	San Potito Sannitico (CE)	
SSP9	Sansepolcro	
SSM1	San Severino Marche	
SSB3	San Sossio Baronia	
SCTE	Santa Cesarea Terme	
AT09	Santa Cristina (Gubbio) - PG	
T0712	Santa Domenica Talao (CS)	
SGTA	Sant Agata di Puglia	
TO05	Santa Marinella - RM	
MSTD	Santandra', Italy	
SAP2	Sant'Angelo in Pontano	
SAIV	Sant'Angelo In Vado	
STV	Sant Anna di Valdieri	
STV2	Sant' Anna di Valdieri 2	
SRN3	Sant'Arsenio	
SFI	Santa Sofia	
CIGN	Sant'Elia a Pianisi	
T0102	San Vittorino	
ZEN8	San Zeno di Montagna	
VRZA	San Zeno Di Montagna	
SASS	Sassa´´´´´´	
SSCV	Sassocorvaro	
SSO	Sasso d'Italia	
SARO	Sassorosso	
STN3	Satriano di Lucania, Italy	
TSUT	Saturnia	
SBPO	S.Benedetto Po	
SEI	Scarperia	
ATSC	Scheggia e Pascelupo	
SCHR	S. Chirico Raparo	
MSCL	Scilla	
RM06	Scoppito	
SACR	S. Croce Del Sannio	
SC2M	Scurtabo	
NEGI	Seborga	
RE04	Sedrio (Vezzano sul Crostolo) - RE	
SEF1	Sefro	
RM21	Selvarotonda (Cittareale)	
SNR3	Senerchia	
SENI	Senigallia	
SERM	Sermide	
FG2	Serracapriola	
ATBU	Serra di Burano	
MSSB	Serra Sant'Abbondio	
T0914	Serretta (MS)	
SERS	Sersale	
STDG	Sesta Godano	
CAS03	Settepolesini, Bondeno (FE)	
SG1	Sgolgore (BA)	
FSGC	Sgonico	
SGO	Sicignano	
SIE	Siena	
A004	Sigillo	
T0915	Sillano (LU)	
MSIR	Sirolo	
AD05	S.Marcello (AN)	
SAMA	S.Maria delle Mole (Ciampino, Roma)	
SMP	Somplago	
SRES	S.Oreste - Soratte	
CELB	S.Piero in Campo Elba	
T0501	Spinello di Santa Sofia (FC)	
SPIE	Spinoso	
STAL	STALIGIAL	
SAE	Statte	
GIN	Stromboli-G	
PZZ	Stroppo	
TUE	Stuetta	
TLI	Talmassons	
TTI	Taranto	
TA1	Taranto	TTI
TAR	Taranto	
TAR1	Taranto	
TO06	Tarquinia - VT	
TO07	Tarquinia - VT	
TAV1	Tavarnelle	
TEGI	Teggiano - Istituto P. Leto	
T0913	Tendola (MS)	
TEOL	Teolo	
TERO	Teramo	
RE05	Terme di Santa Lucia (Busana) - RE	
ISOR	Termini	
RM16	Terranera (Rocca di Mezzo)	
TDS	Terranova Sibari	
TTER	Terranuova Bracciolini	
TIP	Timpagrande	
TITE	Tito	
LTTV	Tivoli	
TOLF	Tolfa	
TO01	Tolfa - RM	
TO04	Tolfa - RM	
TLM	Tolmezzo	
CSG3	Toppo Di Castelgrande (Osservatorio Astronomico)	
TOPPO	Toppo, Italy	
TNO	Torino	
AT10	Torre dell'Olmo (Gubbio) - PG	
TRTR	Tortoreto Alta	
TRAV	Traversella	
TREG	Tregnago	
TRE1	Treia	
T0724	Tremoli - CS	
TRE	Trente	
TREV	Trevi	
TRV	Treviso	
BTRC	Tricarico	
TTE	Trieste	
TRI	Trieste	
TRS	Trieste (CM)	
TRIF	Trifonti	
TRIP	Tripoli	
TRIV	Trivento	
TU1	Tuscania	
UDN	Udine	UDI
UDI	Udine OGS	
BENI	Universita' Del Sannio	
VAJ	Vajont	
VALM	Valbona	
AA02	Valdichiascio	
VAGA	Valle Agricola	
T0105	Valle d'Ocre (Ocre)	
VARA	Varagna	
VAI	Varese	
VARE	Varese	
VEA	Veano	
RE03	Vedriano (Canossa) - RE	
VENL	Venezia Lido	
VEN	Venice	
VENT	Ventotene	
PR01	Verghereto (FC)	
VVMR	Verona	
RM29	Verrico (Montereale)	
OV1	Vesuviano	OVO
OVO	Vesuviano	
VARP	Vesuvio Array Permanente	
VBKN	Vesuvio Bunker Nord	
VCRE	Vesuvio Cratere Est	
VTIR	Vesuvio Tirone	
VVDG	Vesuvio Valle Del Gigante	
VMG	Vicchio	
RM23	Viesci	
VDP3	Vietri Di Potenza	
CAS06	Vigarano Mainarda (FE)	
CAS02	Vigarano Mainarda (FE)	
CAS04	Vigarano Pieve (FE) fraz. Diamantina	
T0701	Viggianello (PZ)	
VIGE	Viggiano	
BVIG	Viggiano	
VGG3	Viggiano	
	(Prot.Civ.Gr.Lucano)	
VCEL	Villa Celiera	
VLC	Villacollemandina	
VVI	Villa di Villa	
VINO	Villanova	
MIR05	Villa Poma (MN)	
VVLD	Villa Vallelonga	
VINC	Vinca	
VISG	Visignano	
T0202	Vitale (Isola del Liri - FR)	
VTB1	Vitulano	
VITU	Vitulano (BN)	
VOBA	Vobarno	
VG1	Voghera	
ZIAN	Ziano	
ZCCA	Zocca	
ZOU	Zoufplan	
ZOVE	Zovencedo	
Sardinia		
CCI	Cagliari Citta	
CA2	Cagliari Serpeddi	CGL
CGL	Cagliari Serpeddi	
CRL	Carloforte	
CUG	Cuglieri	
DGI	Dorgali Grotta	
OLB	Olbia	
VSL	Villasalto	
Sicily		
EACI	Aci Sant'Antonio	
CAGR	Agira	
ACL	Alicudi	
IACL	Alicudi	
MALI	All	
ATN	Antennamare	
AIO	Antillo	
AQ6*	Aqua Casa	
HAGA	Augusta	
AGST	Augusta-Monte Tauro	
HAVL	Avola	
EBCN	Bocca Nuova	
HBSP	Bosco Santo Pietro	
CLTB	Caltabellotta	
CM6*	Campone	
MCPD	Capo d'Orlando	
CV6*	Capo Vaticano	
HCRL	Carlentini	
ECBD	Case Bada	
ECPN	Case del Piano	
ECVS	Case del Vescovo	
ECZM	Case Zampini	
MSRU	Castanea	
CSLB	Castelbuono	
ECML	Castelmola	
CVT	Castelvetrano	
CAVT	Castelvetrano	
ECTS	Castiglione	
MCSR	Castroreale	
CAT	Catania	
CATZ	Catanzaro	
ECNV	Catenanuova	
EZPO	C.da Z Pietro	
ECIS	Cisternazza	
ECDV	Codavolpe	
EPOL	Con Chiusa Politi	
ECCS	Contrada Cassone	
CORL	Corleone	
CRJA	Costa Raja	
ECNE	Crateri Nord Est	
ERC	Erice	
ER1	Erice	ERC
EBEL	Etna Belvedere	
FAI	Favara	
FA1	Favara	FAI
FAVR	Favara	
IFIL	Filicudi I Eolie	
EFIU	Fiumefreddo	
VL6*	Forgia Vecchia	
GZI	Ganzirri	
GIB	Gibilmanna	
EGFM	Gr delle femmine	
IMT	Isola di Marettimo	
LV9	Isola Levanzo	LVI
LVI	Isola Levanzo	
LPDG	Lampedusa Capo Grecale	
HLNI	Lentini	
CLTA	Licata	
LLI	Lipari	
ILMG	Lip M Gallina IE	
ILIQ	Lip Q Pani IE	
EMLP	Malpasso	
ECAN	Masseria Cannata	
MEI	Melilli	
MSI	Messina ING	
MES1	Messina Univ.	MES
MES	Messina University	
MILZ	Milazzo	
MNE	Mineo	
HMNO	Mineo	
HMDC	Modica	
MMME	Mongiuffi-Melia	
MTGR	Montagna Grande	
EMAR	Monte Arcimis	
EARC	Monte Arcimis	
ESAN	Monte dei Santi	
MFNL	Monte Finestrelle	
EMFO	Monte Fontane	
EMGR	Monte Grosso	
EMIL	Monte Intraleo	
MEU	Monte Lauro	
MMGO	Monte Magaggiaro	
EN6*	Monte Nero	
EMNR	Monte Nero	
EMPL	Monte Parmentelli	
MPG	Monte Pellegrino	
MR6*	Monte Rosa	
EMRV	Monte Ruvolo	
ESVO	Monte Scavo	
MNO	Monte Soro	
ESRO	Monte Soro	
EMSG	Monte Spagnolo	
EMVT	Monte Vetore	
MVT	Monte Vettore	
EMSA	Motta S. Anastasia	
MCT	Mte Cammarata	
ENLS	Nicolosi	
ENCS	Nicolosi	
NOV	Novara	
HPAC	Pachino	
HPAR	Pala Acreide	
PZI	Palazzolo	
PLR	Palermo	
MPAZ	Palizzi	
PLI	Panarea	
ME12	Panarea 2	
IPAN	Panarea IE	
PTS	Pantelleria	
PTMD	Pantelleria Cuddia di Mida	
EPIS	Pennisi	
PETRA	Petralia Soprana	
EPET	Petrulli	
EPAP	Piano d'Api	
PV6*	Piano Vulcano	
EPMN	Piedimonte	
CPTP	Pietraperzia	
EPDN	Pizzo Deneri	
EPZF	Pizzo Felice	
EPPA	Pizzo Paviglione	
PLLN	Pollina	
MPNC	Port Mandanici	
SL6*	Punta Lena	
EPLC	Punta Lucia	
RAFF	Raffo Rosso	
ERSA	Rifugio Sapienza	
ISLN	Salina IE	
MSFR	San Fratello	
SG6*	San Gibilmanna	
GIO	San Gregorio	
ECHR	Santa Chiara	
ESAL	Sant'Alfio	
EVRN	Santa Venerina	
SCLL	Scilla	
ESCV	Scorciavacca	
ESLN	Serra La Nave	
ESPC	Serra Pizzuta	
HSRS	Siracusa	
ESML	S. M. di Licodia	
SOLUN	Solunto	
SSY	Sortino	
STR3	STROMBOLI 3	
STR4	STROMBOLI 4	
STR5	Stromboli 5	
IST3	Stromboli F	
ISTR	Stromboli Ginostra	
ISTP	Stromboli Pizzo	
ISPL	Str Punta Lena IE	
ETAR	Tardaria	
ETFI	Torre del Filo	
MUCR	Ucria	
USI	Ustica	
VAE	Valguarnera	
EVNA	Vena	
HVIT	Vittoria	
HVZN	Vizzini	
VN6*	Vulcanello	
IVCR	Vulcano Cr IE	
IVUG	Vulcano Grillo IE	
IVGP	Vulcano Grotta dei Palizzi	
IVLT	Vulcano Lentia IE	
VPL	Vulcano Piano	
ZA1	Zafferana	
Trentino		
BIE	Brione	
CAV	Cavalese	
CARE	Lago del Careser	
BALI	Monte Baldo	
OZOL	Ozolo	
Kosovo		
GJIK	Gjilan	
GMRK	Grmije	
PEJK	Peje	
PRZK	Prizren	
SMRK	Smrekonice	
ZATK	Zatriq	
Latvia		
SLIT	Slitere, Latvia	
Lithuania		
IDID	Didziasalis	
IIGN	Ignalina	
INPP	Ignalina Nuclear	
PABE	Paberze	
PBUR	Paburg¯	
ISAL	Salakas	
IZAR	Zarasai	
Luxembourg		
C20	C20	
C21	C21	
C22	C22	
C23	C23	
LKLB	Kalborn	
LUX	Luxembourg	
LVIA	Vianden	
WLF	Walferdange	
Malta		
MLT	Malta	
WDD	Wied Dalam	
Moldova		
KGL	Cahul	
GIUM	Giurgiulesti	
KIS	Kishinev	
LEOM	Leova	
MILM	Milestii Mici	
SORM	Soroca	
Monaco		
MON	Monaco	
Montenegro		
IVA	Berane	
BEY	Berane	IVA
BUM	Brajici-Budva	
BRY	Bratogost	
BDV	Budva	
CEME	Cevo	
DRME	Dracevica, Montenegro	
HCY	Herceg Novi	
KOME	Kolasin	
NKY	Niksic	
NKME	Niksic	
PVY	Plav	
PLE	Pljevlja	
PDG	Podgorica	TTG
TTG	Podgorica	
ULC	Ulcinj	
UPM	Unac-Piva	
Netherlands		

Code	*Station Name*	*Other*
CHA1	Chaam	
CHA5	Chaam	
CHA2	Chaam	
CHA3	Chaam	
CHA4	Chaam	
NE38	Dalfsen	
DBN	De Bilt	
ENM3	Eenrum	
ENM4	Eenrum	
ENM2	Eenrum	
ENM	Eenrum	
ENM1	Eenrum	
ENV	Elp	
ENV1	Elp / Enerveen	
ENV3	Elp / Enerveen	
ENV4	Elp / Enerveen	
ENV2	Elp / Enerveen	
ENN	Epen	
FSW	Finsterwolde	
FSW1	Finsterwolde 1	
FSW2	Finsterwolde 2	
FSW3	Finsterwolde 3	
FSW4	Finsterwolde 4	
FSW5	Finsterwolde 5	
FDG4	Firdgum	
FDG2	Firdgum	
FDG1	Firdgum	
FDG3	Firdgum	
NE42	Fort Lent	
HWF	Haulerwijk	
HWF1	Haulerwijk	
HWF3	Haulerwijk	
HWF2	Haulerwijk	
HWF4	Haulerwijk	
HEE	Heerlen	
HGN	Heimansgroeve	
HKB	Herkenbosch	
NE32	Kootwijk	
NE31	Losser	
MAME	Mamelis	
NEER	Neeritter	
OPLO	Oploo	
OTL1	Oterleek	
OTL3	Oterleek	
OTL2	Oterleek	
OTL	Oterleek	
OTL4	Oterleek	
PPB	Philisteinsche Polder	
PPB4	Philisteinsche Polder (Bergen)	
PPB1	Philisteinsche Polder (Bergen)	
PPB3	Philisteinsche Polder (Bergen)	
PPB2	Philisteinsche Polder (Bergen)	
RSB	Ravensbos	
RDC	Rolduc	
SCHN	Schinveld	
SPY3	Spijk (Roodeschool)	
SPY2	Spijk (Roodeschool)	
SPY1	Spijk (Roodeschool)	
SPY4	Spijk (Roodeschool)	
SUH1	Surhuizum	
SUH2	Surhuizum	
SUH3	Surhuizum	
SUH4	Surhuizum	
NE37	Ubbergen	
NE05	Utrecht	
VKB	Valkenburg	
NE15	Valkenburg	
VBG	Venebrugge	
VBG1	Venebrugge (Bruchterveld)	
VBG2	Venebrugge (Bruchterveld)	
VBG4	Venebrugge (Bruchterveld)	
VBG3	Venebrugge (Bruchterveld)	
VLW4	Vlagtwedde	
VLW1	Vlagtwedde	
VLW	Vlagtwedde	
VLW2	Vlagtwedde	
VLW3	Vlagtwedde	
WMH1	Warmenhuizen	
WMH3	Warmenhuizen	
WMH2	Warmenhuizen	
WMH4	Warmenhuizen	
WMH	Warmenhuizen	
NIW3	Wetzens (Niawier)	
NIW2	Wetzens (Niawier)	
NIW1	Wetzens (Niawier)	
NIW4	Wetzens (Niawier)	
WYN3	Wijnaldum	
WYN1	Wijnaldum	
WYN4	Wijnaldum	
WYN2	Wijnaldum	
NE40	Winterswijk	
WTS	Winterswijk	
WTSB	Winterswijk	
WIT	Witteveen	
NE04	Witteveen	WIT
WDB	Woudbloem	
WDB1	Woudbloem 1	
WDB2	Woudbloem 2	
WDB3	Woudbloem 3	
WDB4	Woudbloem 4	
ZLV2	Zuidlaarderveen	
ZLV1	Zuidlaarderveen	
ZLV4	Zuidlaarderveen	
ZLV3	Zuidlaarderveen	
ZLV	Zuidlaarderveen	
ZL23	Zuidlaarderveen (2)	
ZL21	Zuidlaarderveen (2)	
ZL22	Zuidlaarderveen (2)	
ZL24	Zuidlaarderveen (2)	
ZWE1	Zweins	
ZWE2	Zweins	
ZWE3	Zweins	
ZWE4	Zweins	
Norway		
Jan Mayen Island		
JMI	Jan Mayen	
JNE	Jan Mayen East	
JNW	Jan Mayen West	
AKN	Aaknes	
ARCES	ARCESS Array Beam	
	Reference Point	
ARA0	ARCESS Array Site A0	
ARA1	ARCESS Array Site A1	
ARA2	ARCESS Array Site A2	
ARA3	ARCESS Array Site A3	
ARB1	ARCESS Array Site B1	
ARB2	ARCESS Array Site B2	
ARB3	ARCESS Array Site B3	
ARB4	ARCESS Array Site B4	
ARB5	ARCESS Array Site B5	
ARC1	ARCESS Array Site C1	
ARC2	ARCESS Array Site C2	
ARC3	ARCESS Array Site C3	
ARC4	ARCESS Array Site C4	
ARC5	ARCESS Array Site C5	
ARC6	ARCESS Array Site C6	
ARC7	ARCESS Array Site C7	
ARD1	ARCESS Array Site D1	
ARD2	ARCESS Array Site D2	
ARD3	ARCESS Array Site D3	
ARD4	ARCESS Array Site D4	
ARD5	ARCESS Array Site D5	
ARD6	ARCESS Array Site D6	
ARD7	ARCESS Array Site D7	
ARD8	ARCESS Array Site D8	
ARD9	ARCESS Array Site D9	
ARE0	ARCESS Array Site E0	
ARNS	Arna	
ASK	Askoy	
BER	Bergen	
RORSS	Ber_school_1	
MELSS	Ber_school_2	
BJO	Bjornoya	
BJO1	Bjornoya	
BLS	Blasjo	
BLS1	Blasjo	
BLS2	Blasjo	
BLS3	Blasjo	
BLS5	Blasjo	
N1R6	Dalselv	
DOMB	Dombas	
N2B4	Drage	
EGD	Espegrend	
FOO	Floro	
STOK2	Flostrand	
FLOS	Flostrand	
FRO	Froya	
HAMF	Hammerfest	
N1R5	Hammernes	
N2B5	Haus	
HOMB	Homborsund	
HYA	Hoyanger	
I37NO	I37NO	
JMIC	Jan Mayen	
JETT	Jettan, Norway	
KMY	Karmoy	
KTK1	Kautokeino	
KTK3	Kautokeino	
KTK4	Kautokeino	
KTK5	Kautokeino	
KTK2	Kautokeino	
KTK6	Kautokeino	
KRK	Kirkenes	
KON	Kongsberg	KONO
KONO	Kongsberg	
STOK1	Konsvik	
KONS	Konsvik	
N2B6	Leirgulen	
LHN	Lillehammer	
N1R4	Lillevand	
N1R2	Lillevik	
LOF	Lofoten	
N2B3	Lovikneset	
MVG	Mesters Vig	
MOR2	Moi Rana	
MOR1	Moi Rana	
MOR8	Moi Rana	
MOR4	Moi Rana	
MOR5	Moi Rana	
MOR7	Moi Rana	
MOR3	Moi Rana	
MOR6	Moi Rana	
MOL	Molde	
N2B2	Myklebust	
NSS	Namsos	
N1R3	Nordsjona	
NORES	NORESS Array Beam	
	Reference Point	
NRA0	NORESS Array Site A0	NORES
NRA1	NORESS Array Site A1	
NRA2	NORESS Array Site A2	
NRA3	NORESS Array Site A3	
NRB1	NORESS Array Site B1	
NRB2	NORESS Array Site B2	
NRB3	NORESS Array Site B3	
NRB4	NORESS Array Site B4	
NRB5	NORESS Array Site B5	
NRC1	NORESS Array Site C1	
NRC2	NORESS Array Site C2	
NRC3	NORESS Array Site C3	
NRC4	NORESS Array Site C4	
NRC5	NORESS Array Site C5	
NRC6	NORESS Array Site C6	
NRC7	NORESS Array Site C7	
NRD1	NORESS Array Site D1	
NRD2	NORESS Array Site D2	
NRD3	NORESS Array Site D3	
NRD4	NORESS Array Site D4	
NRD5	NORESS Array Site D5	
NRD6	NORESS Array Site D6	
NRD7	NORESS Array Site D7	
NRD8	NORESS Array Site D8	
NRD9	NORESS Array Site D9	
NRE0	NORESS Array Site E0	
NA0	NORSAR 1A	NAO
NOA	NORSAR Array Beam	NB2
	Reference Point	
NAO00	NORSAR Array Site 01A00	NAO
NAO01	NORSAR Array Site 01A01	
NAO02	NORSAR Array Site 01A02	
NAO03	NORSAR Array Site 01A03	
NAO04	NORSAR Array Site 01A04	
NAO05	NORSAR Array Site 01A05	
NBO00	NORSAR Array Site 01B00	NBO
NBO01	NORSAR Array Site 01B01	
NBO02	NORSAR Array Site 01B02	
NBO03	NORSAR Array Site 01B03	
NBO04	NORSAR Array Site 01B04	
NBO05	NORSAR Array Site 01B05	
NCO	Norsar Array Site 01C00	
NB200	NORSAR Array Site 02B00	NB2
NB201	NORSAR Array Site 02B01	
NB202	NORSAR Array Site 02B02	
NB203	NORSAR Array Site 02B03	
NB204	NORSAR Array Site 02B04	
NB205	NORSAR Array Site 02B05	
NC200	NORSAR Array Site 02C00	NC2
NC201	NORSAR Array Site 02C01	
NC202	NORSAR Array Site 02C02	
NC203	NORSAR Array Site 02C03	
NC204	NORSAR Array Site 02C04	
NC205	NORSAR Array Site 02C05	
NC300	NORSAR Array Site 03C00	NC3
NC301	NORSAR Array Site 03C01	
NC302	NORSAR Array Site 03C02	
NC303	NORSAR Array Site 03C03	
NC304	NORSAR Array Site 03C04	
NC305	NORSAR Array Site 03C05	
NC400	NORSAR Array Site 04C00	NC4
NC401	NORSAR Array Site 04C01	
NC402	NORSAR Array Site 04C02	
NC403	NORSAR Array Site 04C03	
NC404	NORSAR Array Site 04C04	
NC405	NORSAR Array Site 04C05	
NC600	NORSAR Array Site 06C00	NC6
NC601	NORSAR Array Site 06C01	
NC602	NORSAR Array Site 06C02	NRE0
NC603	NORSAR Array Site 06C03	
NC604	NORSAR Array site 06C04	
NC605	NORSAR Array Site 06C05	
N10	NORSAR Subarray 10C	
	Beam Reference Point	
N11	NORSAR Subarray 11C	
	Beam Reference Point	
N12	NORSAR Subarray 12C	
	Beam Reference Point	
N13	NORSAR Subarray 13C	
	Beam Reference Point	
N14	NORSAR Subarray 14C	
	Beam Reference Point	
NAO	NORSAR Subarray 1A	
	Beam Reference Point	
NBO	NORSAR Subarray 1B	
	Beam Reference Point	
NB2	NORSAR Subarray 2B	
	Beam Reference Point	
NC2	NORSAR Subarray 2C	
	Beam Reference Point	
NB3	NORSAR Subarray 3B	
	Beam Reference Point	
NC3	NORSAR Subarray 3C	
	Beam Reference Point	
NB4	NORSAR Subarray 4B	
	Beam Reference Point	
NC4	NORSAR Subarray 4C	
	Beam Reference Point	
NB5	NORSAR Subarray 5B	
	Beam Reference Point	
NC5	NORSAR Subarray 5C	
	Beam Reference Point	
NB6	NORSAR Subarray 6B	
	Beam Reference Point	
NC6	NORSAR Subarray 6C	
	Beam Reference Point	
NB7	NORSAR Subarray 7B	
	Beam Reference Point	
NC7	NORSAR Subarray 7C	
	Beam Reference Point	
NC8	NORSAR Subarray 8C	
	Beam Reference Point	
NC9	NORSAR Subarray 9C	
	Beam Reference Point	
ODD	Odda	
ODD1	Odda	
OSGS	Os	
OSG	Oseberg A Platform	
OO-NW	Oslo	
OO-	Oslo	OO-NW
OSL	Oslo	
RGS	Rognes	
RUND	Rundenannen	
SKAR	Skarslia	
SNART	Snartemo	
SOTS	Sotra	
STF	Statfjord A Platform	
STAV	Stavanger	
STEI	Steigen	
STOK	Stokkvaagen	
SUE	Sulen	
TRO	Tromso	
TRON	Trondheim	
TBLU	Trondheim	
N2B7	Tytingvag	
N2B1	Tytingvag	
N1R1	Vettahaugen	
Svalbard		
BRBA	Barentsburg A	
BRBB	Barentsburg B	
EO1	Edge Oya	
HOPEN	Hopen	
HSP	Hornsund	
HSPB	Hornsund (broadband)	
ISF	Isfjord	
KBS	Kingsbay	
SPITS	Spitsbergen Array	
	Beam Reference Point	
SPA0	Spitsbergen Array Site A0	SPITS
SPA1	Spitsbergen Array Site A1	
SPA2	Spitsbergen Array Site A2	
SPA3	Spitsbergen Array Site A3	
SPB1	Spitsbergen Array Site B1	
SPB2	Spitsbergen Array Site B2	
SPB3	Spitsbergen Array Site B3	
SPB4	Spitsbergen Array Site B4	
SPB5	Spitsbergen Array Site B5	
Poland		
BEL	Belsk	
MIKI	Bielsko-Biala	
BYT	Bytom	
CHZP	Chorzow	
CHZ	Chorzow	
CYP	Chylin	
CZA	CZA	
DGP	Dabrowa Gornicza	
GKP	Gorka Klasztorna	
PHL	Hel	
KWP	Kalwaria Paclawska	
KRA	Krakow	
KSP	Ksiaz	
NIE	Niedzica	
OJC	Ojcow	
RAC	Raciborz	
RBN	Rybnik	
SUW	Suwalki	
WAR	Warsaw	
BRE	Wroclaw	
ZAB	Zabrze	
Portugal		
Azores		
AGA	Agualva	
ADH	Angra Heroismo	
ADH0	Angra Heroismo	
PBIS	Biscoitos	
CALA	Caldeira	
PCALD	Caldeiras da Ribeira Grande	
PCAN	Candelaria	
PCND	Candelaria	
CEDR	Cedros	
CDRO	Cedros	
PCED	Cedros	
CML	Cha da Macela	
CMLA	Cha da Macela	
PCNG	Congro	
PMAT	Coroa da Mata	
FAC	Faja de Cima	
PFAD	Fenais da Ajuda	
PFET	Feteiras	
FLOR	Flores Is	
H07N1	FLORES T-PHASE SITE N1	
H07S1	FLORES T-PHASE SITE S1	
FOT	Fontinhas	
FRA1	Furnas	
FRA	Furnas	
SET2	Ginetes	
PGRA	Graciosa	
I42PT	GRACIOSA ISLAND INFRASONIC ARRAY REFERENCE POINT	
GRON	Grota Negra	
HOR	Horta	
LFA	Lagoa do Fogo	
PLUZ	Luz	
PMAN	Manadas	
MIRA	Miradouro	
MESC	Monte Escuro	
MTSA	Monte Escuro	
SET4	Mosteiros	
PICO	Pico	
BART	Pico Bartolomeu	
PCRZ	Pico da Cruz	
PFAV	Pico das Favas	
PSMN	Pico do Norte, Sta. Barbara	
PBOI	Pico dos Bois	
PPAD	Pico dos Padres	
PTEI	Pico do Teixo	
PVER	Pico Vermelho	
PIED	Piedade	
SET3	Pilar	
PDA	Ponta Delgada	
PTCA	Ponta do Capelo	
PPNO	Prainha do Norte	
PRCH	Ribeira Ch	
RIA0	Ribeira da Areia	RIA
RIA	Ribeira da Areia	
PID	Ribeirinha	
RIB	Ribeirinha	
RIB2	Ribeirinha	
ROSA	Rosais	
SDCA	Salto do Cavalo	
ASBA	Santa Barbara	
STGR	Santa Cruz	
PSMA	Santa Maria	
SAZ	Santa Maria Island	
PAMA	Santo Amaro	
PSAN	Santo Antonio	
SRBC	Serra Branca	
PSBA	Serra de Santa Barbara	
SCUM	Serra do Cume	
PSCM	Serra do Cume	
PSET	Sete Cidades	
SETA	Sete Cidades	
TOPO	Topo	
VIF	Vila Franca	
PVNV	Vila Nova	
PVIA	Vitoria	

Madeira Islands
FUL Funchal
PMAR Madeira
PMOZ Porto Moniz, Madeira
PMPS Porto Santo
PMPST Porto Santo, Madeira
PACT Alcochete
PALC Alcoutim
AMRP Almeirim
ALMR Almeirim
PCAL Alvares
PFBV Barranco
PBDV Barranco-do-Velho
PBAR Barrancos
PBEJ Beja
PBRG Braganca
PCAB Cabril
PCAS Casmilo, Condeixa
PCBR Castelo Branco
PCVE Castro Verde
COI Coimbra
PCOI Coimbra
PESTR Estremoz
EVO Evora
NE27 Evora EVO
FAR Faro
PFFO Foia
PGAV Gavieira, Arcos de Valdevez
INMG Instituto de Meteorologia, Lisbon
POLO Lamas de Olo
LIS Lisbon
PMST Lisbon--Monsanto
PLOU Loures
PMAFR Mafra
MTE Manteigas
MORF Marmelete
PMRV Marv??o
MESJ Messejana
MVO Moncorvo
MTH Montachique
PMTG Montargil
PFMF Monte Figo
FIG Monte Figo
PMJU Montehunto
MOE Montemor
PNCL Nicolau / Grandola
PLML Palmela
PDRG Pedrog??o
PFPE Pera
PRL Portalegre
PTO Porto
PFSC Santa Clara
PFSB Sao Bartolomeu
PSBE S^£o Bento
EVOP Sao Brissos
PTEO Sao Teotonio
PSSC Serra do Socorro
SETU Setubal (Portugal)
PTOM Tomar
PVAQ Vaqueiros
PSRV Vialonga--Serves
PFVI Vila Bisbo
PVRL Vila Real
PVIS Viseu
NE21 MTE

Provence-Cote d'Azur
SPIF cr^"te de Spivol - 06156, Venanson - Alpes-Maritimes - Provence-Alpes-C^·te d'Azur

Rheinland-Pfalz
NAST IGS Nastaetten

Romania
ADJ ADJUD
AMRR Amara
ARCR ARCALIA
ARR Arges
BAC Bacau
BMR Baia Mare
BAIL Bailesti
BANR Banloc
BERR Berezeni
BIZ Bicaz
BIR Birlad
BISRR Bisoca
BISC BISOCA
BRD Bordesti
BRAG Branistea
BUC Bucharest
BUC2 Bucharest BUC1
BUC1 Bucharest
BAPR Bucharest-Childs Park
BGMR Bucharest-Geological Museum
BTMR Bucharest-Geotec Company
BBIR Bucharest-INCERC-borehole
RBAR Bucharest-INCERC-Test Bldg
BVCR Bucharest-Old Court
BSTR Bucharest-Scientist's House
BLHR Bucharest-Stefan cel Mare Str.
BURAR Bucovina Array
BUR04 Bucovina Ar. Site
BUR07 Bucovina Ar. Site
BUR09 Bucovina Ar. Site
BUR08 Bucovina Ar. Site
BUR03 Bucovina Ar. Site
BUR06 Bucovina Ar. Site
BUR02 Bucovina Ar. Site
BUR01 Bucovina Ar. Site
BUR05 Bucovina Ar. Site
BUCF Bucures@17ti--IRSA
SGEB BUCURESTI
DTIR Bucuresti-Nicolae Titulescu
BUR32 BURAR
BUR33 BURAR
BUZR Buzau
BZS Buzias
CA02 CA02
CA03 CA03
CA04 CA04
CA05 CA05
CA06 CA06
CA07 CA07
CA08 CA08
CA09 CA09
CA10 CA10
CA11 CA11
CA12 CA12
CA13 CA13
CA15 CA15
CA16 CA16
CA17 CA17
CA18 CA18
CA19 CA19
CA20 CA20
CDB Caldarusani
CGN Calugareni
CMP Campulung
CFR Carcaliu
CEI Carei
CB02E CB02E
CB03E CB03E
CB04B CB04B
CB05A CB05A
CB05B CB05B
CB07E CB07E
CB09E CB09E
CB11E CB11E
CC01 CC01
CC03E CC03E
CC05 CC05
CC06A CC06A
CC06B CC06B
CC07 CC07
CC08A CC08A
CD01 CD01
CD04 CD04
CD06 CD06
CD07 CD07
CD10 CD10
CD11 CD11
CD12 CD12
CD14 CD14
CD15 CD15
CD16 CD16
CD17 CD17
CD19 CD19
CE01 CE01
CE02 CE02
CE03 CE03
CE04 CE04
CE05 CE05
CE06 CE06
CE07 CE07
CE08 CE08
CE09 CE09
CE11 CE11
CE13 CE13
CE15 CE15
CE16 CE16
CE17 CE17
CE18 CE18
CE19A CE19A
CE20 CE20
CE21 CE21
CE22 CE22
CE23 CE23
CE24 CE24
CE25 CE25
CEA Ceahlau
CVDA Cernavoda
CVD Cernavoda
CVD1 Cernavoda-Power Plant
CNCR Cernica
CF01 CF01
CF02 CF02
CF04 CF04
CF05 CF05
CF06 CF06
CF07 CF07
CF08 CF08
CF09 CF09
CF10 CF10
CF11 CF11
CF13 CF13
GSMB CHITILA
CIOR Ciorogarla
CL01 CL01
CL02 CL02
CL03 CL03
CL04 CL04
CL05 CL05
CLIR CLINCENI
CLO Closani
CLU Cluj
CJR Cluj-Napoca
CJR1 Cluj-Napoca
CM02E CM02E
CM03E CM03E
CM05E CM05E
CM08E CM08E
CMO6E CMO6E
CN03 CN03
CN05 CN05
CN07 CN07
CLI Colonesti
CTISU Constanta
CCF CONSTANTA
TSCT Constanta Port
COPA Copaceanca
CVO Covasna
COZ Cozia
CRAR CRAIOVA
CS01 CS01
CS02 CS02
CS03 CS03
CS04 CS04
CS05 CS05
CS06 CS06
CS07 CS07
CS08 CS08
CZ01 CZ01
CZ03 CZ03
CZ04 CZ04
CZ05 CZ05
CZ06 CZ06
CZ07 CZ07
CZ08 CZ08
CZ10 CZ10
DEV Deva
DOC Dochia
DOPR Dopca
DRR Dragan
DRA Dragasani
EFOR EFORIE
FTB Fintinele
FOC Focsani
GISR Galati
GIRR Girov
RMVG GOVORA
GZR Gura Zlata
RMGR Halanga-Turnu Severin
HARR Harsova
HNM Heniu Mare
HERR Herculane
HUMR Humele
IAS Iasi
INCR INCERC-Sediu Central
ICOR Ion Corvin
ISRF Istric ta
ISR Istrita
CLISU ISU Calarasi
DJISU ISU Dolj
GRISU ISU Giurgiu
MHISU ISU Mehedinti
OTISU ISU Olt
TRISU ISU Teleorman
IZVR Izvoarele
IZVB Izvoarele B
JOSR Joseni
JURR Jurilovca
LEHL Lehliu
LRR Leresti
LOPT Lopu atari
LOT Lotru
MII Malini
MSR Malnas
MANR Mangalia
TSMN Mangalia Port-Far Verde
MTUR Matau
MDB Medias
MOGR Mogosoaia
PMGR Mogosoaia
MDVR Moldovita
MSAB Monastry St. Andrei
MLR Muntele Rosu
MFTR Murfatlar
NEGR Negresti
NEHR Nehoiu
NARJ Nu aruja
ODBI Odobesti
ODB Odobesti
ONCR Oncesti
PCHR PETRACHIOAIA
PETR Petresti
PTT Piatra Neamt
PPF PLOIESTI
PLAR PLOIESTI
PLOR7 Plostina
PLOR Plostina
PLOR1 Plostina Array site 1
PLOR2 Plostina Array site 2
PLOR3 Plostina Array site 3
PLOR4 Plostina Array site 4
PLOR5 Plostina Array site 5
PLOR6 Plostina Array site 6
PGOR Pogoanele
PMRF Poiana Mare
PPE Popeni
POPR Popesti-Leordeni
PUNG Punghina
RASA Rasa
PRAR RASCA
SCHL Schela
SCHRR Schitu
SBE Sebes
AAR Sfinta Ana
SIBR Sibiu
SNX Sinaia
SGRR Singureni
SIRR Siria
SLCR Slobozia Conachi
STFR Stefanesti
STFAR Stefanesti-Arges
SRE Strehaia
TSSL Sulina
SDR Surduc
SSR Susara
SSA Susara SSR
TESR Tescani
TIM Timisoara
TIRR Tirgusor
TLB Topalu
TLBR Topalu
TOPG Topolog
TPGR Topolog
TUU Turnu Rosu
TNR Turnu Rosu
VLR Valea Ierii
VARL Varlezi
VASR Vaslui
VCT Victoria
VLAD Vladila
VRI Vrincioaia
OZUR
GHRR
SIRB
TUDR
DRGR
VOIR
TLCR
GOLR
LUCR
ZIMR
GALR
VARR
SULR
GRER
HADR
SECR
LTRR
FULR

Russia
Karel'skaya
FP03 FP03
FP05 FP05
FR05 FR05

San Marino
RSM Repubblica di San Marino
ESMR San Marino

Scotland
LINV Loch Inver, Assynt

Serbia
BARS Barje
BGY Belgrade
BEO Beograd
BOLS Boljevac
BOSS Bosilegrad
BOVS Bovan
VVOS Brankovina
DIVS Divibare
DJES Djerdap
FGSL Fruska Gora
FRGS Fruska Gora
GRUS Gruza
HOPOS Hopovo Monastery
IVAS Ivanjica
KMIS Kosovska,, Mitrovica
KUBS Kucevo
BBLS Lazići
MDRV Mala Drenova
NOVS Nova Varos 1
NVSS Nova Varos 2
PTNS Petnica
RUDS Rudovci
SELS Selova
SJES Sjenica
STRS Struganik
SVIS Svilajnac
TEKS Tekeris
TRUS Trudelj
ZAGS Zajecar
ZAPS Zavoj
NISS

Slovakia
ZST Bratislava
BRA Bratislava
CRVS Cervenica-Dubnik
HRB Hurbanovo
SRO1 Iza
IZAB Izabela
KECS Kecovo
KOLL Kolacno
KOLS Kolonicke sedlo
LIKS Likavka
LANS Liptovska Anna
SRO2 Moca
MODS Modra-Piesok
POLL Polichno
SPC Skalnate-Pleso
SMOL Smolenice
SRO Srobarova
STHS Stebnicka Huta
VYHS Vyhne

Slovenia
BISS Bistriski jarek
BOJS Bojanci
KBZS Brezje pri Sen
CADS C@19adrg
CRES C@19res@19njevec Ostr
CEY Cerknica
CESS Cesta pri Krskem
CRNS Crni Vrh
DOBS Dobrina
DBY Dobrovo
GOLS Golis@17e
GBAS Gorenja Brezovica
GRJ Gorje
GORS Gorjuse
GBRS Gornja Briga
GCIS Gornji Cirnik
GROS Grobnik
JAVS Javornik
KNDS Knez@19ji Dol
KOGS Kog
LEGS Legarje
LJU Ljubljana
MOZS Mozjanca
PERS Pernice
PDKS Podkum
ROBS Robic@19
SKDS Skadanscina
VBY Vinica-Bojanci
VISS Vis@19nje
VOJS Vojsko
VOY Vojsko
VNDS Vrh nad Dolskim
ZAVS Zavodnje

Spain
Balearic Islands
EIBI Ibiza
MAHO Mahon
ETOS Mallorca
ESEL Selva
Canary Islands
CHIO Chio
CDLV Cueva Verdes
CCUM Cumbre, El Hierro
CTAN El Hierro
CHIE El Hierro
CTIG El Hierro
CJUL El Julon, El Hierro
CFTV Fuerteventura
CFUE Fuerteventura
GGC Guia Canaria
GUI Guimar
CICO Icod de los Vinos
EGOM La Gomera
CLAN Lanzarote
CRST La Restinga, El Hierro
CCAN Las Canadas
CTAD Las Tabladas, Isla de El Hierro
CMCL Mercadel, El Hierro
CRAJ Montana Rajada
MACI Morro de la Arena
CORC Orchilla, El Hierro
TBT Taburiente
CTFE Tenerife
TEN Tenerife
CVVD Valverde
VVD Valverde
Ceuta
CEUT Ceuta
EADA Adamuz
ADRA Adra
EXAD Adra

Code	*Station Name*	*Other*
E011	Adriano, Sevilla	
EAGO	Agolada(Pontevedra)	
ERON	Agron	
NE11	Ainzon	
ALBA	Albanya	
EALB	Alboran	
ALBO	Alboran Island OBS	
EXAL	Albunol	
ALCN	Alcanar	
AFC	Alfacar	
ALCS	Alfacar	
EXAO	Algodonales	
EXAA	Alhama Almeria	
EALH	Alhama de Murcia	
EXAG	Alhama Granada	
ALI	Alicante	
EXAI	Alicante	
ALJ	Aljibe	
EALK	Alkurruntz	
EXAM	Almeria	
ALM	Almeria	
E015	Alquife, Granada	
ARAC	Aracena	
YARA	Arangoiti	
EARA	Aranguren	
EXAR	Arenas del Rey	
ARNO	Arenosillo	
EARI	Arriondas	
AAPN	Arroyo Pinares	
YASP	Aspurt	
AVN	Avellanes	
E017	Aznalcollar, Sevilla	
EBAD	Badajoz	
EXBA	Badajoz	
EBAJ	Bajamar	
EBAN	Banos Encina	
EXBZ	Baza	
E009	Beas, Huelva	
EXBE	Becerrea'	
EBEN	Beniarda	
EBEN2	Beniarda presa Alicante	
EXBN	Benidorm	
YBER	Berdun	
EBER	Berja	
CBEU	Beuda	
EBIE	Bielsa	
CBRU	Bruguera	
BRUG	Bruguera	
E022	Bujalance, Cordoba	
ACBG	Cabo de Gata	
EXCA	Cadiz	
E006	Caete la Real, Malaga	
ECAL	Calabor	
ACLR	Calar Alto	
AALM	Campus Universitario de Almeria	
ACU	Canalobre	
CANF	Canfranc	
CART	Cartagena	
CRT	Cartuja	
COBS	Casablanca	
E005	Casares, Malaga	
CCAS	Cassa de la Selva	
E032	Castillo de Giribaile, Vilches, Jaen	
SCRT	Cerro San Cristobal	
CEU	Ceuta	
ECEU	Ceuta	
ECHE	Chera	
EXCH	Chimeneas	
ACHM	Chimeneas	
ECHI	Chisagues Bielsa	
ECOG	Cogollos-Vega	
CNIL	Conil	
ECRI	Cripan	
EXDI	Dilar	
DILR	Dilar	
EBRE	Ebro Roquetas	
EBR	Ebro Roquetas	
ECAB	El Cabril	
EXEL	Elche	
IELO	Elcoad	
EXED	Elda	
EXEE	El Ejido	
EGRO	El Granado	
ELIZ	Elizondo	
E019	El Pedroso, Sevilla	
E018	Embalse de El Pintado, Sevilla	
E932	Embalse del Gaudalen, Jaen	
IEPA	Eparoz	
ESPR	Espera	
ESPO	Espot	
ESTP	Estepa	
EXES	Estepona	
CEST	Esterri de Cardos	
FBR	Fabra	
EFAM	Famara	
FONT	Fontmartina	
CFON	Fontmartina	
AFON	Font Roja	
AFUE	Fuente Hervidero	
EXGA	Gandia	
CGAR	Garraf	
GIBL	Gibalbin	
GORA	Gorafe	
NE14	Granada	
EGRA	Graus	
GUD	Guadarrama	
EGUA	Guajares	
EXGUA	Guardamar (Alicante)	
HACH	Hacho	
EHRO	Hierro	
EHIG	Higuera	
EHOR	Hornachuelos	
HORN	Hornachuelos	
ERTA	Horta de San Juan	
E025	Huelma, Jaen	
EXHU	Huelva	
EHUE	Huescar	
EINC	Incio	
ALR	Isla de Alboran	
IPRE	Itoiz	
EXJA	Jaen	
JAND	Jandula	
E028	Jerez de los Caballeros, Badajoz	
EJIF	Jimena Frontera	
EJIM	Jimena Frontera	
EXJU	Jumilla	
NE11*	La Almunia	
EJON	La Jonquera	
EMUR	La Murta	
ELAN	Lanestosa	
ERUA	La Rua	
E031	Las Morras, Villanueva del Duque, Cordoba	
CAVN	Les Avellanes	
E034	Letur, Albacete	
LIJA	Lijar	
CLLI	Llivia	
ELOB	Lobios	
LGR	Logrono	
ALOJ	Loja	
EXLO	Lorca	
TLOR	Lorca, Murcia	
EXLR	Lorqui	
ELGU	Los Guajares, Granada	
EXLU	Lugo	
ELUQ	Luque	
MDD	Madrid	
EXMA	Malaga	
MAL	Malaga	
EMAL	Malaga-Limonero	
E012	Marchena, Sevilla	
E024	Martos, Jaen	
CMAS	Mas de Barberans	
EMAZ	Mazaricos	
EMEL	Melilla	
MELI	Melilla	
EMIJ	Mijas	
EMIN	Mina Concepcion	
EMIR	Miracle	
MOMI	Momias	
EMON	Mondonedo	
POBL	Monestir Poblet	
MRB	Monserrat	
EMOS	Mosqueruela	
EXMO	Motril	
EXMU	Mula	
YNAR	Nardues-Aldunate	
ANER	Nerja	
ENIJ	Nijar	
E033	Ojanco, Jaen	
OJEN	Ojen	
OLT	Olot	
EXOR	Olula del Rio	
ORG	Organya	
CORG	Organya	
ORGV	Orgiva	
CORI	Orista	
E007	Orjiva, Granada	
EORO	Oroz-Betelu	
EOSO	Osorio	
E010	Palacio de Doana, Huelva	
CPAL	Palau Saverdera	
EXPA	Pamplona	
PARA	Parapanda	
APCG	Parque de las Ciencias	
YMUS	Pe˜–a Musera	
E030	Peraleda del Zaucejo, Badajoz	
APHE	Pico Herrero	
PINR	Pinar	
EPLA	Plasencia	
PLAT	Plata	
EPOB	Poblet	
PONT	Pont de Suert	
EPON	Pontenova	
EPRU	Pruna	
E002	Puerto del Bujeo, Cadiz	
NE13	Puertollano	
EQUE	Quentar	
EQES	Quesada	
RANB	Rancho Bola	
REAL	Reales	
RESI	Resinera	
ERIP	Rio Piedras	
TINT	Rio Tinto	
EROQ	Roquetas del Mar	
E016	Rosal de la Frontera, Huelva	
E008	San Bartolome de la Torre, Huelva	
ESAC	San Caprasio	
SFUC	San Fernando	
SFS	San Fernando	
PAB	San Pablo	
EPAB	San Pablo	
SRQ	San Roque	
E020	Santaella, Cordoba	
NE30	Santa Pau	
STS	Santiago	
NE26	Santiago de Compostela	
SESP	Santiago Espada	
EXSA	Sarria	
ASCB	Sierra Cabrera	
E026	Sierra de Lcar, Granada	
ELIJ	Sierra de Lijar	
E001	Sierra del Retn, Cadiz	
ELVI	Sierra Elvira	
SELV	Sierra Elvira	
EGOR	Sierra Gorda, Loja, Granada	
ELOJ	Sierra Loja	
ASMO	Sierra Morrones	
YSIG	Sigues	
ESBB	Sonseca Array BB	
ESDC	Sonseca Array Beam Reference Point	
ES01	SONSECA Array Site 01	
ES02	SONSECA Array Site 02	
ES03	SONSECA Array Site 03	
ES04	SONSECA Array Site 04	
ES05	SONSECA Array Site 05	
ES06	SONSECA Array Site 06	
ES07	SONSECA Array Site 07	
ES08	SONSECA Array Site 08	
ES09	SONSECA Array Site 09	
ES10	SONSECA Array Site 10	
ES11	SONSECA Array Site 11	
ES12	SONSECA Array Site 12	
ES13	SONSECA Array Site 13	
ES14	SONSECA Array Site 14	
ES15	SONSECA Array Site 15	
ES16	SONSECA Array Site 16	
ES17	SONSECA Array Site 17	
ES18	SONSECA Array Site 18	
ES19	SONSECA Array Site 19	
ESLA	Sonseca Array Site A	
ESLB	Sonseca Array Site B	
ESLC	Sonseca Array Site C	
ESLD	Sonseca Array Site D	
ESLE	Sonseca Array Site E	
ESLF	Sonseca Array Site F	
ESLG	Sonseca Array Site G	
CSOR	Sort	
YSOS	Sos del Rey Catolico	
EXTA	Tarifa	
ATEJ	Tejeda	
ETER	Terradas	
ETOB	Tobarra	
TOL	Toledo	
NE17	Toledo	TOL
TLO	Toledo HGLP	
E013	Torcal de Antequera, Malaga	
TORR	Tordecillas	
ETOR	Torete	
EXTO	Torrevieja	
E035	Torrevieja, Alicante	
CTRE	Tremp	
CADI	Tunel del Cadi	
IUNC	Unciti	
YUND	Undues	
UCM	Universidad Complutense Madrid	
E029	Usagre, Badajoz	
IUSE	Utxeti	
CARA	Val dAran	
NE12	Valle Caidos	
EVAL	Valverde	
VAN2	Vandellos 2	
VELZ	Velez Rubio	
EXVE	Vera	
EVIA	Vianos	
VIH	Vielha	
VILA	Vilada	
E021	Villaviciosa de Cordoba, Cordoba	
EZAM	Zamans	
NE28	Zamora	
IZUN	Zunzarren	
NE23		FBR
NE25		EBR
NE22		MAL
NE19		LGR
NE24		ALI
NE20		ALM
Sweden		
ABB	Abborrasen	
ABK	Abisko	
ASPU	Aespoe	
ATR	Alsterbro	
APP	Appelbo	APO
ARNU	Arnoeviken	
ASKU	Askersund	
APO	Äppelbo	
BACU	Backbrunna	
BJUU	Bjuv	
BLEU	Blekinge	
BORU	Boraas	
BYD	Bredaryd	
BREU	Bredtraesk	
FIBU	Brunna	
BURU	Burvik	
BYXU	Byxelkrok	
DEL	Delary	
DEL1	Delary	
DUNU	Dundret	
EKSU	Eksjoe	
ERTU	Ertsjaerv	
ESKU	Eskilstuna	
FKPU	Falk	
FABU	Falkenberg	
FALU	Falun	
FINU	Finntorp	
FLYU	Flymyra	
FORU	Forsmark	
GNOU	Gnosjoe	
NE01	Goteborg	
GOT	Goteborg	
GOTU	Gotland	
GRAU	Graesoe	
GBD	Granbergs Dal	
GNN	Gunnerudssatern	
HFS	Hagfors	
HFSA1	Hagfors Array Site A1	
HFSB1	Hagfors Array Site B1	
HFSB2	Hagfors Array Site B2	
HFSB3	Hagfors Array Site B3	
HFSB4	Hagfors Array Site B4	
HFSB5	Hagfors Array Site B5	
HFSC1	Hagfors Array Site C1	
HFSC2	Hagfors Array Site C2	
HFA0	Hagfors New Array Site A0	
HFA1	Hagfors New Array Site A1	
HFA2	Hagfors New Array Site A2	
HFA3	Hagfors New Array Site A3	
HFB1	Hagfors New Array Site B1	
HFB2	Hagfors New Array Site B2	
HFB3	Hagfors New Array Site B3	
HFB4	Hagfors New Array Site B4	
HFB5	Hagfors New Array Site B5	
HFC2	Hagfors New Array Site C2	
HVK	Hallstavik	
HARU	Harads	
HASU	Hassela	
HED	Hedekas	
HEMU	Hemsoen	
HRN	Horndal	
HUDU	Hudiksvall	
HUSU	Husum	
IGGU	Iggoen	
KALU	Kalix	
KLS	Karlskrona	
KTN	Katrineberg	
KIR	Kiruna	
KUA	Kurravaara	
LANU	Lannavaara	
RATU	Laukkuluspa	
LILU	Lilltraesk	
LNKU	Linkoeping	
LUN	Lund	
LUNU	Lund	
MRE	Mariestad	
MASU	Masugnsbyn	
MYV	Myrviken	
NSD	Nasudden	
NIKU	Nikkaluokta	
NRAU	Nora	
NOD	Norderasen	
NRTU	Norrtaelje	
NYK	Nykoping	
NYNU	Nynaeshamn	
OSTU	Oestervaala	
OLDS	OLDS	
OLF	Olofstrom	
ONAU	Onsala	
ONSU	Onsala	
ORK	Orkelljunga	
OSKU	Oskarshamn	
PAJU	Pajala	
ROTU	Roteberg	
KOVU	Salmi	
SALU	Saltoluokta	
SJUU	Sjulsmark	
SKA	Skalstugan	
SOLU	Sollefteaa	
ODEU	Stanfors	
SGAS	Stanga	
SLL	Stollet	
STRU	Stroemstad	
SVAU	Svanoeiden	
T031	T031	
T034	T034	
T035	T035	
T036	T036	
T037	T037	
T038	T038	
T039	T039	
T043	T043	
T044	T044	
T052	T052	
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T068	T068	
T069	T069	
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T071	T071	
T073	T073	
T074	T074	
T075	T075	
T076	T076	
T077	T077	
T14S	T14S	
T16S	T16S	
T18S	T18S	
T30S	T30S	
T40S	T40S	
T41S	T41S	
T42S	T42S	
T60S	T60S	
T897	T897	
T898	T898	
TNU	Tenhult	
TJOU	Tjoern	
TBY	Torsby	
UDD	Uddeholm	
UME	Umea	
UMAU	Umeaa	
UPP	Uppsala	
VANU	Vaenersborg	
NASU	Vaermlandsnaes	
VSTU	Vaestervik	
VXJU	Vaexsjoe	
VNY	Varmlds Nysat	
VAS	Vassijaure	
VEB	Veberod	
VIKU	Vikbolandet	
VIM	Vimmerby	
Switzerland		
Luzern		
SLUW	Luzern Werkhofstrasse	
Raron		
LAUCH	Lauchernalp	
ACHB	Acheberg	
AIGLE	Aigle	
SAIG	Aigle Rue de la Gare	
APL	Alpnach	
SALTS	Altdorf, Kantonsspital	
SARE	Arbon, Evangelische Kirche, TG	
SAUR	Augst-Roemermuseum	
SBAS	Baar Spital, ZG	
BALST	Balsthal	
BNALP	Bannalp	
BBS	Basel-Blauen	
SBAF	Basel-Friedhofgasse	
SBAK	Basel, Klybeck	
SBAM2	Basel, M˚…nster, BS	
SBAP	Basel-PUK	
SBAJ2	Basel, St Johann, BS	
SBAT	Basel-Tropenhaus	
SBAV	Basel, Vogelsang, BS	
SBAW	Basel, Wirtschaftsgymnasium, BS	
BAS	Basle	
BERNI	Berninapass	
SBERN	Bern, Kleine Schanze	
SBEG	Bettingen Gewerbehaus	
SBIK	Biel, Kongresshaus, BE	
SBIS2	Binningen	
SBIF2	Birsfelden, Friedhof	
BOBI	B˜¶bikon, Wasserreservoir Allmend, AG	
BOURR	Bourrignon	
BRI	Brig	

Code	Station Name	Other
BIBA	Brigerbad	
SBRS	Brig, Spital	
BUB	Buchberg	
SBUA2	Buchs, Altendorf	
SBUB	Buchserberg Malbun	
SBUH	Buchs, Hochschule	
SCEL	Celerina	
SULZ	Cheisacher	
CHIR1	Chironico	
CHU	Chur	
SCUG	Chur Gewerbeschulhaus	
SCOU	Cournillens	
CUNA	Curaglia	
DAVOS	Davos	
DAVON	Davos	
DAVOX	Davos/Dischmatal	
ZUR	Degenried	
SGT03	Degersheim	
DOETR	Doetra (Olivone)	
SIEB	Ecole de Borzuat	
SGT05	Eggersriet	
EMBD	Embd, Mattertal	
EMMET	Emmethof	
EMING	Emmingen-Liptingen DE	
EMO	Emosson	
EMS	Emosson-Mur	
SEMOS	Emosson Staumauer, Bunker	
FIESA	Fiescheralp	
FLACH	Flaach	
EWZT1	Frdhf. Weidikon, ZR	
SFRA	Frenkendorf	
FUSIO	Fusio	
SGT01	Gaiserwald	
SGEV	Gen^ove, Vieux-Billard	
SGEM	Genf, Marziano	
DIX	Grande Dixence	
GRIMS	Grimsel Gerstenegg	
GRYON	Gryon	
HALTI	Haltingen (BS)	
HAMIK	H^mikon, D^likerfeld, LU	
HASLI	Hasliberg/Brienz	
SINS	Interlaken, Schloss	
SKAF	Kaiseraugst-Friedh	
KAMOR	Kamor	
LIENZ	Kamor/St.Gall Rh.T	
SALAN	Lac Salanfe	
SENIN	Lac Senin/Sanetsch	
RITOM	Lago Ritom (SBB)	
NOV4	La Tour-de-Pellz	
SEPFL	Lausanne EPFL	
SAIRA	Les Sairains Dessus	
BRANT	Les Verrieres	
LKBD	Leukerbad	
LKBD2	Leukerbad 2	
SLTM2	Linthal, Matt	
LLS	Linth-Limmern	
LUKA1	Lukmanier-Pass	
DAGMA	Lutertal, Dagmarsellen	
SLUB	Luzern Bramberg	
SLUK	Luzern Kirche, LU	
SLUZ	Luzern Zentralbibliothek	
SMAO	Martigny, Rue dOctodure	
MMK	Mattmark	
MAUBO	Mauborget	
SMAF	Mauren, Feuerwehr, FL	
MELS	Mels	
MTI03	Mont Terri (freefield, SED-Schacht NW400, Brunefarine) JU	
MTI02	Mont Terri, (HE Schacht)	
MTI01	Mont Terri (ME Nische)	
MUGIO	Muggio	
MFSFA	Multi FST (Faido)	
MFSFB	Multi FST (Faido)	
MUO	Muotathal	
SMUK	Muraz-Klaeranlage	
SMUR	Muraz-Reservoire	
SMZW	Muttenz-Waldhaus	
NARA	Nara (Leontica)	
NEC	Neuchatel	
NEU	Neuchatel	
SNES2	Neuenburg, Observatorium, NE	
NOV1	NOV1	
NOV2	NOV2	
NOV3	NOV3	
FUORN	Ofenpass-Fuorn	
ORB	Orbe	
OTTER	Otterbach	
OTER1	Otterbach 1 (BS)	
OTER2	Otterbach 2 (BS)	
OSS	Ova Spin	
PFAFF	Pfaffnau Reservoir	
PANIX	Pigniu (Panix)	
PLONS	Plons/SG	
SRER	Reinach, Rainenweg	
SRNR	Reinach, Reinacherhof	
RIEH2	Riehen 2 (BS)	
SRHB	Riehen-Baumlih	
SRHE	Riehen, Erlenstr^sschen, BS	
SRHH	Riehen, Zur Hoffnung, BS	
ROTHE	Rothenfluh	
SAX	Saentis	
SARK	Sarnen Kantonsschule	
SCHE	Schaffhausen-Ebnat	
SCHS	Schaffhausen, Spital	
SGT04	Schlatt-Haslen	
SLE	Schleitheim	
MATTE	Schuetzenmatte (BS)	
SSCN	Schweizerhalle, Novartis	
SCUC	Scuol-Clozza	
SGT00	Sennh^…lsen	
SIERE	Sierre	
SIMPL	Simplonpass	
SIS	Sion	
SIOM	Sion-Mayennets	
SIOO	Sion-Ophtalmol	
SIOV	Sion-Valere	
SOLB	Solothurn Schulhaus Br^…hl	
SOLZ	Solothurn, Zeughausgasse	
CURA	Stauanlage Cunera	
STEIN	Stein am Rhein	
STGK	St. Gallen Kloster	
GIMEL	St. Georges / Gimel	
STIEG	Stiegenhof Hundestation	
JOHAN	St. Johann (BS)	
STAF	Tafers	
TMA	Tamaro	
TORNY	Torny/Romont	
TONGO	Tortengo (Faido)	
EWZT0	Triemli, ZR	
STRW	Triesenberg, Werkhof, FL	
TRULL	Truellikon	
STSP	Tschierv	
PIORA	Tunnel	
EWZT3	Uitikon, ZR	
VDL	Val di Lei	
NALPS	Val Nalps	
SVAM	Vaz, Muldain	
EMV	Vieux Emosson	
SVIL	Visp Littennaring	
SVIO	Visp Obere Stapfengasse	
SVIT	Visp-Terbinerstrasse	
VANNI	Vissoie, Val d'Anniviers	
WALHA	Wallhausen, DE	
WEIN	Weingarten	
EWZT2	Wettswil, ZR	
WILA	Wila	
WIMIS	Wimmis	
SYVJ	Yverdon-Jordils	
SYVP	Yverdon-les-Bains, rue des Philosophes	
SZER	Zernez	
SGT02	Zihlschlacht	
ZLA	Zuerich Laegern	
ZUL	Zurich-Lageren	
SZUZ	Z^…rich, Zeughauswiese	
Valais		
SGRA	Graechen Ausblick	
SNIB	St. Niklaus Bahnhofstrasse	
Thuringen		
POSS	Possen	
THWA	Th^…ringer Wald Luisenthal	
LEIB1	TS Leibis	
ANNA	Wolkenburger Bergbaurevier	
Ukraine		
ALU	Alushta	
BERU	Beregovo	
BRIU	Brid	
CHRU	Chernivtsi	
CRA	Chernovtsy	
CRB	Chernovtsy (B)	
FEO	Feodosiya	
HORU	Horodok	
KERU	Kerch	
KIEV	Kiev	
KORU	Korolevo	
KSV	Kosov	
KMPD	K-Podol'skiy	
LVV	L'vov	
MKY	Makeyevka	
AKASG	Malin Array Beam Reference Point	
AK01	Malin Array Site 01	
AK02	Malin Array Site 02	
AK03	Malin Array Site 03	
AK04	Malin Array Site 04	
AK05	Malin Array Site 05	
AK06	Malin Array Site 06	
AK07	Malin Array Site 07	
AK08	Malin Array Site 08	
AK09	Malin Array Site 09	
AK10	Malin Array Site 10	
AK11	Malin Array Site 11	
AK12	Malin Array Site 12	
AK13	Malin Array Site 13	
AK14	Malin Array Site 14	
AK15	Malin Array Site 15	
AK16	Malin Array Site 16	
AK17	Malin Array Site 17	
AK18	Malin Array Site 18	
AK19	Malin Array Site 19	
AK20	Malin Array Site 20	
AK21	Malin Array Site 21	
AK22	Malin Array Site 22	
AK23	Malin Array Site 23	
AKBB	Malin Array Site BB	
MEZ	Mezhgor'ye	
MORS	Morshin	
MRSS	Morshin	MORS
MORU	Morshyn	
MUKU	Mukachevo	
NDNU	Novodnistrovsk	
NSLU	Nyzhne Selyshche	
NE56	Odesa	
ONO	Onokovtsy	
NE58	Poltava	
RAKU	Rahkiv	
RAK	Rakhov	
SEVA	Sevastopol	
SEV	Sevastopol'	
SHIU	Shidnytsya	
SIM	Simferopol'	
NE55	Skvira	
STNU	Starunia	
STZU	Stuzhytsa	
SUDU	Sudak	
TRSU	Trosnyk	
UZH	Uzhgorod	
YAL	Yalta	
United Kingdom		
Channel Islands		
JRS	Jersey	
JDC	Jersey Dam (Crest)	
JDG	Jersey Dam (Gallery)	
JLP	Les Platons	
JQE	Queens East	
JSA	Saint Aubin	
JVM	Valle D.L. Mare	
England		
HAE	Alders End	
XAL	Allendale	
AFH	Ashford Hill	
ABA1	Baconsthorpe	
BHM	Barham	
BATH	Bath	
BID	Bidston	
BMY	Bingley Moor	
KBI1	Birley Grange	
BKN	Blacknest	
HBL2	Bonnylands	
LBO	Bowland	
TBW	Brentwood	
BUW	Bucklebury West	
CBW1	Budock Water	
BUWY	Burn	
CCA1	Carnmenellis	
LCP	Cassop	
CWF	Charnwood Forest	
CHDUK	Cheddleton UK	
CLB	Chilbolton	
TCR	Colchester	
DCO	Combe Farm	
CCO1	Constantine	
LCK	Crook	
XDE	Dent Fell	
CDU1	Dunnerdale	
DUR	Durham	
AEU	East Anglia University	
TEB	Eastbourne	
EDMD	Edmundbyers	
ELSH	Elham, Standardhill Farm (Kent)	
HEX	Exmoor	
TFO1	Folkestone	
GDLE	Glaisdale, N Yorkshire Moors	
CGH1	Goonhilly	
HGH	Gray Hill	
GILD	Guildford	
CGW	Gweek	
HTL	Hartland	
SFH	Hasselmere	
HPK	Haverah Park	
HEA	Headley	
HMNX	Herstmonceux	
HHWY	High Hoyland	
LHO	Holmfirth	
SIW	Isle of Wight	
CKE	Keswick	
KESW	Keswick, Cumbria	
KEW	Kew	
KEY2	Keyworth	
KEY1	Keyworth	
LKL	Kirkby Lonsdale	
SKP1	Kophill	
LBWR	Ladybower, Peak District	
LDU	Leeds University	
LVR	Liverpool	
LLO	Longridge	
LLY	Lytham Saint Anne's	
CMA1	Manaccan	
LMK	Market Rasen	
SMD	Mendips	
CME	Menerdue Farm	
MMY	Middlesmoor	
LMI	Millom	
LBH	Morecambe B102	
OLDB	Oldbury-Upon-Severn	
OMWY	Oxenhope Moor	
OXD	Oxford	
APAE	Packway	
CPZ	Penzance	
POE	Porton East	
POS	Porton South	
QMB	Queensbury	
LRN	Richmond	
CRQ	Rosemanowes	
CRQ2	Rosemanowes 2	
SBD	Saint Breward	
CSF	Scaffel	
SLPK	Sellapark	
TSA1	Sevenoaks	
SHT	Sharpitor	
SHID	Shide	
SCK	South Creake	
CSA1	St Austell	
CST1	Stithians	
STNC	Stoke	
STO	Stonyhurst	
SSW	Stow on the Wold	
STRD	Stroud	
SWN1	Swindon	
SWG	Swingate, Kent	
KSY	Syston	
BTA	Talkin	
KTG1	Tilbrook Grange	
KUF	Ufford	
SWK	Warminster	
KWE	Weaver Farm	
WACR	West Acre	
WBE	West Bromwich	
AWH	Whinburgh	
LWH	Whinny Nab	
AWI1	Witton	
WOL	Wolverton	
WON	Wolverton North	
DYA	Yadsworthy	
Northern Ireland		
CLGH	Cloghs, Cushendall	
GCL	Cushendall	
GMM	Mts of Mourne	
Orkney Islands		
OHO	Hoy	
OST	Stronsay	
OWE	Westray	
Scotland		
ABE	Aberdeen	
EAB	Aberfoyle	
KAC	Achnashellach	
MVH1	Achvaich	
KAR1	Arisaig	
EAU	Auchinoon	
EBH	Black Hill	
BBO1	Bothel	
OBR	Brabster	
EBL	Broad Law	
BBH	Bruntsheil	
RCR	Cape Wrath	
PCA1	Carrot	
GCD	Castle Douglas	
ECK	Cauldkaine Hill	
BCC1	Chapelcross	
MCD	Coleburn Distillery	
PCOU	Corrie	
BDL	Dobcross Hall	
MDO	Dochfour	
EDR	Drumtochty	
EDU	Dundee	
EDI	Edinburgh	
REB	Eisghbrachaidh	
EKG	Eskdalemuir	EKB
EKB	Eskdalemuir	
ESK	Eskdalemuir	
EKA	Eskdalemuir Array	
EKB1	Eskdalemuir Array Site B1	
EKB10	Eskdalemuir Array Site B10	
EKB2	Eskdalemuir Array Site B2	
EKB3	Eskdalemuir Array Site B3	
EKB4	Eskdalemuir Array Site B4	
EKB5	Eskdalemuir Array Site B5	
EKB6	Eskdalemuir Array Site B6	
EKB7	Eskdalemuir Array Site B7	
EKB8	Eskdalemuir Array Site B8	
EKB9	Eskdalemuir Array Site B9	
EKR1	Eskdalemuir Array Site R1	
EKR10	Eskdalemuir Array Site R10	
EKR2	Eskdalemuir Array Site R2	
EKR3	Eskdalemuir Array Site R3	
EKR4	Eskdalemuir Array Site R4	
EKR5	Eskdalemuir Array Site R5	
EKR6	Eskdalemuir Array Site R6	
EKR7	Eskdalemuir Array Site R7	
EKR8	Eskdalemuir Array Site R8	
EKR9	Eskdalemuir Array Site R9	
MFI	Fishrie	
RFO	Forsnaval	
EGL	Gala Law	
EGL1	Gala Law	
GAL1	Galloway	
PGBU	Glenifferbraes	
BHH	Howats Hill	
INVG	Invergeldie, Comrie	
KYL	Kyle	
MLA1	Latheron	
LEWI	Lewis, Hebrides	
LAWE	Loch Awe, Argyll & Bute	
ELO	Logie Almond	
DRUM	Mains of Drumtochty	
MME1	Meikle Cairn	
PMSU	Muirshiel	
GMK	Mull of Kintyre	
KNR1	Nevis Range	
BNA	New Abbey	
NEWG	New Galloway	
POB1	Observatory	
KPL	Plockton	
ORE	Reay	
RRH	Rhenigidale	
RRR	Rubha Reidh	
RSC	Scourie	
KSK	Scoval	
KSB	Sheil Bridge	
XSO	Sourhope Farm	
ESY	Stoneypath	
RTO	Tolsta	
OTO	Tongue	
BIGH	Upper Bighouse, Forsinard	
BWH	Wardlaw	
Shetland Islands		
LRW	Lerwick	
LRWS	Lerwick	
SANU	Sandwick	
SAN1	Sandwick	
WAL1	Walls	
WALU	Walls	
YEL1	Yell	
YELU	Yell	
Wales		
BYB	Berrybush	
WBR	Bronaber	
SBD1	Bryn Du	
WPS	Cemaes, Anglesey	
WCB1	Church Bay	
HCG	Craig Goch	
WFB	Fairbourne	
FOEL	Foel Wylfa	
LPW	Lampeter	
YLL	Llanberis	
LLW	Llanuwychllyn	
WLC	Llyn Conwy	
WLF1	Llynfaes	
HLM1	Long Mynd	
MCH1	Michaelchurch	
MONM	Monmouth	
WME	Myndd Eilian	
HPE	Pembroke	
WPM1	Penmaenmawr	
YRH	Rhiw	
YRC	Rhoscolyn	
RSBS	Rosebush, Pembrokeshire	
SSP1	Stoney Pound	
WST	Stwlan	
HSA	Swansea	
HTR	Trewern Hill	
WVR	Vyrnwy	
YRE	Yr Eifl	

INDIAN OCEAN

Australia		
Christmas Island		
XMI	Christmas Island	
XMIS	Christmas Island	
Cocos Islands		
CCK	Cocos Island	
COCO	West Island	
Heard Island		
HII	Heard Island	
Chagos Archipelago		
H08N1	Diego Carcia HYDROACOUSTIC SITE N1	
H08S1	Diego Carcia HYDROACOUSTIC SITE S1	
DGAR	Diego Garcia	

Code	*Station Name*	*Other*
H08N2	Diego Garcia HYDROACOUSTIC SITE N2	
H08N3	Diego Garcia HYDROACOUSTIC SITE N3	
H08S2	Diego Garcia HYDROACOUSTIC SITE S2	
H08S3	Diego Garcia HYDROACOUSTIC SITE S3	
I52GB	DIEGO GARCIA INFRASONIC ARRAY REFERENCE POINT	
France		
Amsterdam Island		
AIS	Amsterdam Island	
Crozet Islands		
CRZF	Crozet Islands	
H04N1	CROZET ISLANDS HYDROACOUSTIC SITE N1	
H04N2	CROZET ISLANDS HYDROACOUSTIC SITE N2	
H04N3	CROZET ISLANDS HYDROACOUSTIC SITE N3	
H04S1	CROZET ISLANDS HYDROACOUSTIC SITE S1	
H04S2	CROZET ISLANDS HYDROACOUSTIC SITE S2	
H04S3	CROZET ISLANDS HYDROACOUSTIC SITE S3	
Kerguelen Islands		
KCA	Cave	
I23FR	KERGUELEN INFRASONIC ARRAY REFERENCE POINT	
KCH	Monts Chateau	
PMK	Pointe Molloy	
PAF	Port-aux-Francais	
KPB	Port Bizet	
KPD	Port Douzieme	
Reunion		
PCR	La Plaine Cafres	
REU	Reunion Island	
RER	Riviere de l'Est	
Mauritius		
RODM	Citronelle, Rodrigues Island	
MRI	Mauritius Island	
MRIV	Mauritius Meteorological Services (Vacoas)	
ROCAM	Rodrigues Island Caves	
Seychelles		
SEY1	Mahe	
MSEY	Mahe Island	
SEYC	Seychelles	
South Africa		
Prince Edward Islands		
MIO	Marion Island	
NORTH AMERICA		
Alaska		
SHEM	Shemya Is, Alaska	
Alberta		
BDMTA	Bald Mountain Lookout Tower, Alberta	
BRLDA	Berland Lookout Tower, Alberta	
HSPGA	Hill Springs, Alberta	
MKRVA	Milk River, Alberta	
STPRA	Salt Prairie Lookout Tower, Alberta	
SWHSA	Sweathouse Lookout Tower, Alberta	
WTMTA	White Mountain Lookout Tower, Alberta	
Barbados		
BBGH	Gun Hill	
British Columbia		
BNKB	Banks Island	
BUTB	Butedale	
CLRS	Cowichan Lake Research St	
GRNB	Grenville Island	
HWKB	Hawksbury Island	
California		
HUG01	Santa Cruz, CA USA	
Canada		
Alberta		
ATHA	Athabasca	
BAN	Banff	
DCA2	Baytree	
BRGNA	Bergen	
DCA1	Bonanza	
CLM	Coleman	
DCA3	Cotillion Park	
EDM	Edmonton	
ELD	Ethyl Lake Duckett	
FSMA	Fort Smith	
HILA	High Level	
JP-AT	Jasper	
JP-	Jasper	JP-AT
KV-	Keg River	KV-AT
KV-AT	Keg River	
LGPLA	Lodgepole	
MANA	Manning	
MEDA	Medicine Hat	
PRDA	Priddis	
RAYA	Raymond Alberta	
RDEA	Red Earth Creek	
SES	Suffield	
TMDA	Turtle Mountain	
WAPA	Wapiti River	
WALA	Waterton Lakes	
WS-	Waterways	WS-AT
WS-AT	Waterways	
ORGA		
British Columbia		
HM-BC	100 Mile House	
ALB	Alberni	
ALRB	Anaheim Lake	
ANMB	Anmore	
A07A	Ashnola River, Keremeos	
ATLB	Atluck Lake	
ATC	Attachie	
BFSB	Bamfield	
B928	Bamfield	
BMSB	Bamfield Marine Station	
BPCB	Bare Point	
NCBC	Barkley Canyon	
BNB	Barry Inlet	
BBB	Bella Bella	
BCBC	Bella Coola	
BDBC	Bennett Dam	
BLBC	Blue River	
WGB	Blue River	
BQB	Bob Quinn Lake	
BNAB	Bonilla	
BIB	Bowen Island	
BPBC	Brooks Peninsula	
BMBC	Bull Mountain	
BTB	Buttle Lake	
CK-BC	Cache Creek	
CK-	Cache Creek	CK-BC
CLSB	Cack Lake	
CBB	Campbell River	
SJB	Cape Saint James	
STJA	Cape St.James	
CPLB	Carmanah Point Lighthouse	
AHCB	Chemainus	
CTC	Chetwynd	
A06A	Chilliwack	
CLVB	Cleveland Dam	
COQB	Coquitlam Dam	
CWB	Cumshewa	
CCC	Cusp Creek	
DAWS	Dawson Inlet	
DIB	Dawson Inlet, BC	
H02S1	DAWSON INLET T-PHASE SITE S1	
DLB	Dease Lake	
DLBC	Dease Lake	
DPRB	Downie Pk Ridge	
DOWB	Downie Slide	
EDB	Eliza Dome	
ENGB	English Bluff	
ETB	Estevan Point	
FHRB	Fair Harbour	
FRC	Federal Ranch	
FRN	Fernie	
FNC	Finlay Fork	
FLLB	Fletcher Lake Big Creek, BC	
FKBC	Forrest Kerr	
FT-BC	Fort McLeod	
FT-	Fort McLeod	FT-BC
FNBB	Fort Nelson	
FL-	Fort Nelson	FL-BC
FL-BC	Fort Nelson	
FNBC	Fort Nelson	
FSB	Fort Saint James	
FSJ	Fort Saint James	
FCBC	Franklin Camp	
GOB	Galiano Island	
GOBB	Galiano Island	
GDR	Gold River	
GSTB	Goldstream Park	
VGZ	Gonzales	
GOWB	Gowlland Point	
HNB	Haney	
HNBB	Haney	
HYC	Haney	
HLSB	Harrison Lake South	
HRMB	Harrison Mills	
HBDB	Hayseed and Buckwheat Dairy Farm	
HOLB	Holberg	
HOPB	Hope	
HBC	Horseshoe Bay	
HG3B	Hotspring	
HG4B	Hotspring	
HM-	Hundred Mile H.	HM-BC
JRBB	Jordan River	
KANO	Kano Inlet	
KELB	Kelsey	
KBB	Kelsey Bay	
KLNB	Kelsey New	
KITB	Kitimat	
LIB	Langara Island	
LR9	Liard River	
LLL	Lillooet	
LLLB	Lillooet	
MABC	Malibu	
SHDB	Maple Bay	
MSTB	Masset	
MASB	Masset	
MAYB	Maynard	
MGCB	McGee Creek	
ME-	Merritt	ME-BC
ME-BC	Merritt	
B926	Mesachie Lake	
MCE	Mica Creek	
MCC	Mica Creek	
MCMB1	Michelle Canyon Maxwell	
HDG10	Mitchell Dam	
HG1B	Mitchell Dam	
MOBC2	Moresby, Haida Gwaii	
MOBC	Moresby Island	
MNB	Mounoet Dainard	
FALL	Mountain Creek	
CARB	Mount Cartier	
MGB	Mount Grey	
LZB	Mount Lazard	
OZB	Mount Ozzard	
THOB	Mount Thompson	
MWAB	Mount Washington	
MUB	Muncho Lake	
NDB	Naden	
NAB	Nanaimo	
NLLB	Nanaimo Lost Lake,BC	
GHNB	Nanoose	
NCEN	NEPTUNE Canada Endeavour node	
KEBB	NEPTUNE Canada Endeavour West	
NCHR	NEPTUNE Canada High Rise	
KEMF	NEPTUNE Canada Main Field	
KEMO	NEPTUNE Canada Mothra	
NCRB	Newcastle Ridge	
NTKA	Nootka	
NBC1	NorthernBC 1	
NBC2	NorthernBC 2	
NBC3	NorthernBC 3	
NBC4	NorthernBC 4	
NBC5	NorthernBC 5	
NBC6	NorthernBC 6	
B009	North Saanich	
B010	North Saanich	
B011	North Saanich	
OFB	Ocean Falls	
NC27	ODP1027	
NC89	ODP889	
PA01	PA01 North	
PA02	PA02 Ocean	
PA03	PA03 Flamable	
PA04	PA04 Cage	
PA05	PA05 Willingdon	
PA12	PA12 Sannich	
SHVB	Paradis Home	
HGPB	Parks Canada Compound	
PMB	Pemberton	
PIB	Pender Island	
PNT	Penticton	
PPC	Pine Pass	
PIMB	Pitt Meadows	
PLBC	Pleasant Camp	
B927	Port Alberni	
PACB	Port Alice, BC	
PCB	Port Clements	
PHC	Port Hardy	
PFB	Port Renfrew	
PG2BC	Prince George	
PG-	Prince George	PG-BC
PG-BC	Prince George	
RUB	Prince Rupert	
RUBB	Prince Rupert	
PD-	Princeton	PD-BC
PD-BC	Princeton	
QCC	Queen Charlotte	
QN-BC	Quesnel	
QN-	Quesnel	QN-BC
SLEB	Sale Mountain	
SSIB	Saltspring Island	
SSQ	Sandspit	
SNB	Saturna Island	
SHB	Sechelt	
CLAP	Shields Creek	
PGC	Sidney	
SILB	Sidney Island	
HGSB	Sid's House	
SKB	Skidegate	
SI-BC	Smithers	
SI-	Smithers	SI-BC
SOKB	Sooke	
SPLB	Strathcona Park Lodge	
SURV	Survey Creek	
TABB	Tabernacle Mountain	
TSUB	Tasu	
TSB	Tasu	
TALB	Tatla Lake BC	
TLCB	Telegraph Cove	
TCBC	Telegraph Creek	
TFRB	Telus,Franklin R.	
TXB	Texada	
THMB	Thunder Mountain BC	
TWBB	Timber West Blakeney	
TWGB	Timber West Granite	
TWKB	Timber West Koksilah	
TSJB	Timber West San Juan	
TOFB	Tofino	
B012	Ucluelet	
EPMB	Univ. Columbia	
UBRB	Upper Baezaeko River	
SULB	Vanderhoof	
VIB	Van Inlet	
H02N1	VAN INLET T-PHASE SITE N1	
VDB	Vedder Mountain	
VIC	Victoria	
KHVB	Wang Home	
WPB	Watts Point	
WSLR	Whistler	
WHB	Whistler	
WTRB	White River	
WKB	White Rock	
WK-BC	Williams Lake	
WK-	Williams Lake	WK-BC
WCBC	Windy Craggy	
WOSB	Woss	
QURY	Yakoun River	
PHYB	Yellowpoint	
YOUB	Youbou, Lake Cowichan	
Gulf of St. Lawrence		
MADG	Magdalen Islands	
NATG	Natashquan Quebec	
Manitoba		
CH-	Churchill	CH-MT
CH-MT	Churchill	
EB-	East Braintree	EB-MT
EB-MT	East Braintree	
FCC	Fort Churchill	
ULM	Lac du Bonnet	
I10CA	LAC DU BONNET INFRASONIC ARRAY REFERENCE POINT	
PWM	Pinawa	
New Brunswick		
BATG	Bathurst New Brunswick	
BOIN	Boiestown	
LMN	Caledonia Mountain	
ER218	Early Rise 218	
ER219	Early Rise 219	
ER220	Early Rise 220	
ER221	Early Rise 221	
ER222	Early Rise 222	
ER223	Early Rise 223	
ER224	Early Rise 224	
ER225	Early Rise 225	
ER226	Early Rise 226	
ER227	Early Rise 227	
ER228	Early Rise 228	
ER229	Early Rise 229	
ER230	Early Rise 230	
EBN	Edmundston	
EDMN	Edmundston, New Brunswick	
ELNB	Elgin, New Brunswick	
HANN	Hanwell	
HKNB	Havelock Quarry	
MCA2	McAdam 2	
MCA3	McAdam 3	
MCA4	McAdam 4	
KLN	McKendrick Lake	
MINB	Miramichi	
GGN	Saint George	
SRNB	Snider Mountain Ranch	
SVNB	Stilesville Quarry	
UNB	University of New Brunswick	
WCNB	Wards Creek	
Newfoundland		
CODG	Codroy Newfoundland	
CBK	Corner Brook	
DRLN	Deer Lake	
MKVL	Makkovik	
NANL	Nain	
NWRL	North West River	
PKN	Parkers Pond	
STJN	Saint John's	
STJ	Saint John's	
SJNN	Saint John's	
WBHL	Wabush	
WABN	Wabush	
Northwest Territories		
ACKN	Achilles Lake	
ALE	Alert	
AP3N	Apex site 3 Nunavut	
BLC	Baker Lake	
BOXN	Box Lake	
CBAR	Cambridge Bay Array Beam Reference Point	
CB01	Cambridge Bay Array Site 1	
CB11	Cambridge Bay Array Site 11	
CB12	Cambridge Bay Array Site 12	
CB13	Cambridge Bay Array Site 13	
CB14	Cambridge Bay Array Site 14	
CB15	Cambridge Bay Array Site 15	
CB16	Cambridge Bay Array Site 16	
CB17	Cambridge Bay Array Site 17	
CB18	Cambridge Bay Array Site 18	
CB19	Cambridge Bay Array Site 19	
CB02	Cambridge Bay Array Site 2	
CB03	Cambridge Bay Array Site 3	
CB31	Cambridge Bay Array Site 31	CBAR
CB32	Cambridge Bay Array Site 32	
CB33	Cambridge Bay Array Site 33	
CB34	Cambridge Bay Array Site 34	
CB35	Cambridge Bay Array Site 35	
CB04	Cambridge Bay Array Site 4	
CB05	Cambridge Bay Array Site 5	
CB06	Cambridge Bay Array Site 6	
CB07	Cambridge Bay Array Site 7	
CB08	Cambridge Bay Array Site 8	
CB09	Cambridge Bay Array Site 9	
CAMN	Camsell Lake	
CDKN	Chidliak Camp Nunavut	
CLVN	Colville Lake	
COWN	Contwyoto Lake 2	
COKN	Cook Lake	
CMC	Coppermine	
CMBN	Cumberland Camp Nunavut	
DHRN	Dharma Camp	
DVKN	Diavik Mine	
DSMN	Discovery Mine	
EDZN	EDZO	
EKTN	Ekati Mine	
FST1	Fort Simpson	
FST	Fort Simpson	
FRB	Frobisher Bay	
FBC	Frobisher Bay	
FBN	Frobisher Bay	FRB
GDLN	Gardenia Lake, NWT	
GIFN	Gifford Fjord, Baffin Island, Nunavut	
GLWN	Glow Worm Lake	
GBLN	Grizzly Bear Lake	
HPLN	Hepburn Lake, NWT	
HFRN	Hoarfrost River	
HMNT	Holman	
IGL	Igloolik	
IGLN	Igloolik	
ILON	Igloolik, Nunavut	
IHLN	Indian Hill Lake	
INK	Inuvik	
JERN	Jeri Cho Mine, NWT	
KNDN	Kennady Lake	
KUKN	Kugluktuk,NWT	
LDGN	Lac de Gras North	
LGSN	Lac de Gras South	
LAIN	Lailor River, Nunavut	
LDBN	Lake De Bois	
LUPN	Lupin Mine	
MCKN	MacKay Lake North	
MGTN	Margaret Lake	
MLON	Marlo Lake	
MRYN	Mary River	

Code	Station Name	Other
NP-NT	Mould Bay	
MBC	Mould Bay	
YKAB1	New Yellowknife Blue 1	
YKAB0	New Yellowknife Blue 10	
YKAB2	New Yellowknife Blue 2	
YKAB3	New Yellowknife Blue 3	
YKAB4	New Yellowknife Blue 4	
YKAB6	New Yellowknife Blue 6	
YKAB7	New Yellowknife Blue 7	
YKAB8	New Yellowknife Blue 8	
YKAB9	New Yellowknife Blue 9	
YKAR1	New YK Array red 1	
YKAR2	New YK Array red 2	
YKAR3	New YK Array red 3	
YKAR4	New YK Array red 4	
YKAR5	New YK Array red 5	
YKAR6	New YK Array red 6	
YKAR7	New YK Array red 7	
YKAR8	New YK Array red 8	
YKAR9	New YK Array red 9	
NPT	Nicholson Point	
NODN	Nodinka Narrows	
NOWN	Norman Wells, NWT	
NP-	North Pole	NP-NT
QILN	Qililugaq Exploration Camp	
YRTN	Rankin Inlet	
RES	Resolute Bay	
ROMN	Roman Lake	
SWT	Sachs Harbour	
SXT	Sachs Harbour	
SNLN	Sandy Lake, NWT	
SRLN	Sarcpa Lake, Nunavut	
SMPN	Simpson Lake	
SNPN	Snap Lake	
TKT	Tuktoyaktuk	
TUK	Tuktoyaktuk	
WAGN	Wager Bay	
WHFN	White Fish Lake	
YMBN	Yamba Lake	
YNEN	Yamba Lake Northeast	
RSNT	Yellowknife	
YKC	Yellowknife	
YKR8	Yellowknife Ar.	YKB5
YKR0	Yellowknife Array	
YKA	Yellowknife Array Beam Reference Point	
YKB0	Yellowknife Array Site B0	
YKB1	Yellowknife Array Site B1	
YKB2	Yellowknife Array Site B2	
YKB3	Yellowknife Array Site B3	
YKB4	Yellowknife Array Site B4	
YKB6	Yellowknife Array Site B6	
YKB7	Yellowknife Array Site B7	
YKB8	Yellowknife Array Site B8	
YKB9	Yellowknife Array Site B9	
YKR1	Yellowknife Array Site R1	
YKR2	Yellowknife Array Site R2	
YKR3	Yellowknife Array Site R3	
YKR4	Yellowknife Array Site R4	
YKR5	Yellowknife Array Site R5	
YKR6	Yellowknife Array Site R6	
YKR7	Yellowknife Array Site R7	
YKR9	Yellowknife Array Site R9	
YKB5	Yellowknife Array Sites B5 and R8	
YKW1	Yellowknife Array Site W1	
YKW2	Yellowknife Array Site W2	
YKW3	Yellowknife Array Site W3	
YKW4	Yellowknife Array site W4	
NorthWest Territories		
C36M	Paulatuk	
A36M	Sachs Harbour	
Nova Scotia		
CHEG	Cheticamp, Nova Scotia	
ER231	Early Rise 231	
ER232	Early Rise 232	
ER234	Early Rise 234	
ER235	Early Rise 235	
ER236	Early Rise 236	
ER237	Early Rise 237	
ER238	Early Rise 238	
ER239	Early Rise 239	
ER241	Early Rise 241	
ER242	Early Rise 242	
GBN	Guysborough	
HAL	Halifax	
MALG	Malagash, Nova Scotia	
SABG	Sable island	
Nunavut		
ARVN	Arviat, NU	
B1NU	Baffin Island 1	
B2NU	Baffin Island 2	
YBKN	Baker Lake, Hudson Bay	
BULN	Bullion Camp, Hudson Bay	
CLRN	Clyde River	
EUNU	Eureka	
SEDN	First Sedna Site,Hudson Bay	
GFNU	Grise Fiord	
KUGN	Kugaaruk Camp, Nunavut	
MCMN	McManaman Lake, Nunavut	
NUNN	Nunuq Camp, NU	
PINU	Pond Inlet	
JOSN	Second Sedna Site,Hudson Bay	
SMLN	Simpson Lake, Nunavut	
STLN	Stellar Camp, Hudson Bay	
SBNU	Taloyoak	
Ontario		
OT001	1031 Sheenboro Crescent, Ottawa	
OT002	1514 Bourcier, Ottawa	
OT004	16, Winslow Court, Ottawa	
OT008	2758 Massicotte Lane, Ottawa	
OT012	7 Observatory Cres., Ottawa	
OT006	959, Brant, Ottawa	
ACTO	Acton	
AFO2	Alfred	
ALFO	Alfred	
AFO1	Alfred	
ALGO	Algonquin Park	
F51A	Arnstein	
BASO	Ashfield	
ATKO	Atikokan Iron Mine	
BANO	Bancroft	
D49A	Beulah Township	
OTBB	Blackburn lab bldg12	
H53A	Bobcaygeon	
BRPO	Bonnechere River Park	
BRCO	Bruce Peninsula	
BUKO	Buck Lake	
BUO	Burlington	
RD01	Burlington	
G55A	Calabogie	
OTNM	Canadian Museum of Nature	
CLPO	Centennial Lake Park	
CKO	Chalk River	
CRLO	Chalk River	
D47A	Chapleau	
CFO	Chats Falls	
CLWO	Collingwood	
SSNO	Creighton Mine,Sudbury	
DSNO	Creighton Mine,Sudbury	
DAN	Dane	
DREO	Darlington East Ontario	
DRWO	Darlington West	
DLA	Delaware (Ont)	
DELO	Deloro Mine	
KB5O	Diamondview Rd.	
KB4O	Donald B. Munro Dr,	
DVO	Downsview	
ER101	Early Rise 101	
ER102	Early Rise 102	
ER103	Early Rise 103	
ER104	Early Rise 104	
ER105	Early Rise 105	
ER106	Early Rise 106	
ER107	Early Rise 107	
ER108	Early Rise 108	
EFO	Effingham	
EEO	Eldee	
H56A	Elgin	
ELFO	Elginfield	
ELF	Elginfield	
ELLO	Elliot Lake	
ELGO	Elora Gorge	
ES-	Espanola	ES-ON
ES-ON	Espanola	
F48A	Evansville	
EPLO	Experimental Lakes	
FHO	Fitzroy Harbor	
I55A	Frankford	
E51A	G1948 Merrick Township	
D50A	G1974 Best Township, ON	
GTO	Geraldton	
OTGH	Glebe high school	
KB3O	Grant Side Rd.	
HGVO	Hagersville	
HSMO	Haileybury School of Mines	
G53A	Haliburton	
HML	Hamilton	
HUO	Hudson	
K51A	Iona Station	
E47A	Iron Bridge	
KB2O	John Shaw Road	
KB6O	John Shaw Road, remote	
KAO	Kapuskasing	
KAPO	Kapuskasing	
KASO	Kasabonika Lake, First Nations Ontario	
KLBO	Killbear Provincial Park	
KGNO	Kingston	
L50A	Kingsville	
KILO	Kirkland Lake	
KLC	Kirkland Lake	
KLO	Kirkland Lake	
I53A	Kortright Cn Earth Rangers Ctr, Woodbridge	
LDIO	Lac des Isle Mine	
LHC	Lakehead University	
G54A	Lake Saint Peter	
LINO	Lindsay	
I51A	Listowel	
E48A	Lockeyer	
LDN	London (Ont)	
LND	London (Ont)	
MADO	Madoc	
MW-	Mattawa	MW-ON
MW-ON	Mattawa	
E52A	Mattawa	
MALO	McAlpine Lake	
BMRO	Meriville Lake	
MSNO	Moosonee Ontario	
RD03	Mount Hope	
MPPO	Murphy's Point	
MUMO	Musselwhite Mine	
NANO	Nakina Ontario	
NSKO	Neskantaga (Lansdowne House)First Nations Ontario	
G57A	Newington	
OTWM	No. 579 Westminster Ave.	
ORHO	Orleans, Heritage Park	
ORIO	Orleans, Innes Road, Ontario	
OT011	OT011	
OTT	Ottawa	
OTRO	Otter Rapids	
J52A	Paris	
D48A	Paudash Township	
PLIO	Pelee Island, Stone Alvar Conservation Area	
PEMO	Pembroke	
PKRO	Pickering	
PKLO	Pickle Lake	
PLVO	Plevna	
PTCO	Port Colborne	
PECO	Prince Edward County	
PNPO	Pukaskwa National Park	
RK-	Red Lake	RK-ON
RK-ON	Red Lake	
RSON	Red Lake	
RDLO	Red Lake	
RLKO	Red Lake	
RSPO	Restoule Provincial Park	
KB1O	Rock site, Kinburn Side Road	
SADO	Sadowa	
STCO	Saint Catharines	
F49A	Sandfield	
SL-ON	Sault Sainte Marie	
SL-	Sault Ste Marie	SL-ON
D46A	Sault St. Marie	
SCB	Scarborough	
I52A	Shelburne	
SXO	Sioux Lookout	
SOLO	Sioux Lookout	
SOO	Sioux Lookout	
DRCO	St. Marys Cement	
RD04	Stoney Creek	
SUO	Sudbury	
SZO	Sudbury	
SWXO	Sudbury	
SUD	Sudbury	
SWO	Sudbury	
SUNO	Sudbury Onaping	
F52A	Sundridge	
SILO	Sutton Inlier	
TBO	Thunder Bay	
K52A	Tillsonburg	
TIMO	Timmins Ontario	
TOBO	Tobermory, Bruce Peninsula National Park	
TNT	Toronto	
TORO	Toronto--Leslie Street Spit	
H55A	Tweed	
TYNO	Tyneside	
UWOO	University of Western Ontario	
VIMO	Victor Mine	
E50A	Wahnapitae	
BWLO	Walkerton	
RD02	Waterdown	
WEO	Welcome	
WLVO	Wesleyville	
WBO	Williamsburg	
WNR	Windsor	
H52A	Wyevale	
Prince Edward Island		
HC1P	summerside station 1	
HC2P	summerside station 2	
HC3P	summerside station 3	
HC4P	summerside station 4	
TIGG	Tignish, PEI	
Quebec		
AKVQ	Akulivik	
YOSQ	Ashton Mining of Canada property	
CNQ	Baie Comeau	
BLBQ	Baie-St-Paul	
BSPQ	Baie-St-Paul	
BECQ	Becancour	
BELQ	Belleterre	
BCLQ	Boischatel	
BU-	Buckingham	BU-QB
BU-QB	Buckingham	
CBRQ	Cabonga Reservoir	
CHQ	Charlesbourg	
D58A	Chemin du LacGrosbois, Trois-Rives	
E57A	Chemin Saint Guillaume, Saint Donat	
D57A	Chemin Vers le Barrage, Saint-Michel-Des-Saints	
CHGQ	Chibougamau	
CIQ	Chicoutimi	
CHIQ	Chicoutimi-Nord	
G59A	Clarenceville	
SMQ	Clarke City	
DMCQ	Dolbeau-Mistassini	
E53A	Dumoine, Pontiac MRC	
ER109	Early Rise 109	
ER110	Early Rise 110	
ER111	Early Rise 111	
ER112	Early Rise 112	
ER113	Early Rise 113	
ER114	Early Rise 114	
ER115	Early Rise 115	
ER116	Early Rise 116	
ER117	Early Rise 117	
ER118	Early Rise 118	
ER119	Early Rise 119	
ER120	Early Rise 120	
ER201	Early Rise 201	
ER202	Early Rise 202	
ER203	Early Rise 203	
ER204	Early Rise 204	
ER205	Early Rise 205	
ER207	Early Rise 207	
ER208	Early Rise 208	
ER209	Early Rise 209	
ER210	Early Rise 210	
ER211	Early Rise 211	
ER212	Early Rise 212	
ER213	Early Rise 213	
ER215	Early Rise 215	
ER216	Early Rise 216	
ER217	Early Rise 217	
GASG	Gaspe, Quebec	
LNGQ	Gaz Metro	
GNT	Gentilly	
GAC	Glen Almond	
GRQ	Grand Remous	
GWR	Great Whale R.	PBQ
GWC	Great Whale River	
GSQ	Grosses Roches	
F57A	Harrington	
HTQ	Hauterive	
HMC	Holland Mills	
INUQ	Inukjuak	
IVKQ	Ivujivik	
KAJQ	Kangiqsualujjuaq	
KNGQ	Kangiqsujuaq	
KRSQ	Kangirsuk	
MLQ1	Kipawa	
KJKQ	Kuujjuarapik	
KUQ	Kuujjuuaa	
E54A	Lac Daplat, Pontiac, MRC	
DAQ	Lac Daran	
DHLQ	Lac-des-Plages	
E61A	Lac Etchemin	
D54A	Lac Fusel, La Vallee-de-La-Gatineau	
LSQ1	Lac Sinclair, Quebec	
D53A	Lac Vacive, Pontiac, Mrc	
LDQ	La Grande	
LTQ	La Grande	
LBQ	La Grande	
LAQ	La Grande	
LCQ	La Grande	
LGQ	La Grande	
JBQ	La Grande 3	
LRQ	La Grande 3	
JAQ	La Grande 3	
LXQ	La Grande 3	
JCQ	La Grande 3	
LG4Q	La Grande 4	
LQQ	La Grande 4	
KAQ	La Grande 4	
KBQ	La Grande 4	
KCQ	La Grande 4	
LMBQ	La Malbaie	
LMQ	La Malbaie	
POC	La Pocatiere	
LPQ	La Pocatiere	
LATQ	La Tuque	
E58A	La Victoria	
LSQQ	Lebel-sur-Quevillon	
D51A	Lot 18 Range III Mazenod Township	
MNQ	Manicouagan	
MIQ	Maniwaki	
G60A	Masonville	
MATQ	Matagami	
A54	Misere	
E55A	Montcerf-Lytton	
MOQ	Mont Orford	
MNT	Montreal	
MNTQ	Montreal, Quebec	
TRQ	Mont Tremblant	
MRNQ	Morin Heights	
MRHQ	Morin Heights	
MGDQ	Mulgrave and Derry, QC.	
NEMQ	Nemaska	
NMSQ	Nemaska Station	
G58A	Ormstown	
F55A	Otter Lake	
ICQ	Pointe Anglais	
PBQ	Poste Baleine	
QCL	Quebec	QBC
QBC	Quebec	
QCQ	Quebec	QBC
RIMQ	Rimouski	
RDLQ	Riviere-du-Loop	
A16	Riviere Ouelle	
ROUQ	Riviere-Ouelle	
A21	Saint Andre	
SADQ	Saint-Augustin-de-Desmaures	
D55A	Sainte-Anne-du-Lac	
A61	Sainte Mathilde	
STUQ	Sainte-Ursule	
STFQ	Sainte-Ursule	
F59A	Saint Guilaume	
SHQ	Saint-Hilarion	
DPQ	Saint Jean	
D60A	Saint Jean D'Orleans	
SLQ	Saint Louis du Ha Ha	
D59A	Saint-Raymond	
A11	Saint Roch-des-Aulnaies	
A64	Saint Simeon	
SNKN	Sanikiluaq	
SNQN	Sanikiluaq	
SV2QB	Schefferville	
SCH	Schefferville	
SV2	Schefferville	SV2QB
SCHQ	Schefferville	
SV3	Schefferville	SV3QB
SV3QB	Schefferville	
SFA	Sept-Chutes	
SIC	Sept Iles	
SHF	Shawinigan Falls	
LDSQ	Shawville	
SBQ	Sherbrooke	
SO-QB	Sorel	
SO-	Sorel	SO-QB
SANQ	St-Andre-du-Lac-St-Jean	
D61A	St Aubert, Comte d'Islet	
E60A	Ste Agathe de Lotbiniere,	
SELQ	St-Eleuthere	
F61A	St Evariste	
SGRQ	St-Georges	
G61A	St-Isidore-de-Clifton	
F58A	St-Lin Laurentide	
SLBQ	St-Lucie-de-Beauregard	
SMCQ	St-Marc-des-Carrî¯res	
E59A	St. Maurice	
STOQ	Stoneham	
STPQ	St-Pascal	
E56A	St. Veronique	
TADQ	Tadoussac	
JBBQ	Temiscaming	
MLQ2	Temiscaminque	
TMK	Temiskaming	
VABQ	Val Des Bois	
VDBQ	Val-des-Bois,QC	
VALQ	Val d'Or	
VDQ	Val d'Or	
VLDQ	Val d'Or	
VMC	Ville Marie	
F60A	Warwick	
WEMQ	Wemindji, Quebec	
D56A	ZEC Mazanza, Mont-Saint-Michel	
D52A	ZEK Kipawa Senerzegues Township	
Saskatchewan		
BGUS	Bergheim	
BMS	Big Muddy Lake	
FFC	Flin Flon	
FLAR	Flin Flon Array Beam Reference Point	
FL01	Flin Flon Array Site 1	
FL10	Flin Flon Array Site 10	
FL11	Flin Flon Array Site 11	
FL12	Flin Flon Array Site 12	
FL13	Flin Flon Array Site 13	
FL14	Flin Flon Array Site 14	
FL15	Flin Flon Array Site 15	
FL16	Flin Flon Array Site 16	
FL17	Flin Flon Array Site 17	
FL18	Flin Flon Array Site 18	
FL02	Flin Flon Array Site 2	
FL03	Flin Flon Array Site 3	
FL31	Flin Flon Array Site 31	
FL04	Flin Flon Array Site 4	
FL05	Flin Flon Array Site 5	
FL06	Flin Flon Array Site 6	
FL07	Flin Flon Array Site 7	
FL08	Flin Flon Array Site 8	
FL09	Flin Flon Array Site 9	
SAS	Saskatoon	

St Pierre and Miquelon
SPR Saint Pierre
Yukon Territory
BVCY Beaver Creek
BH- Burwash Landing BH-YK
BH-YK Burwash Landing
CTLN Castor Lake
DAWY Dawson
DWY Dawson City
DLY Dezadeash Lake
YUK7 Dusty Glacier
EPYK Eagle Plains
GALN Gameti Lake
YUK5 Granite Creek
HYT Haines Junction
ILKN Indian Lake
KEY Kluane
KRY Koidern River
KBT Komakuk Beach
YUK3 Moose Creek
YUK6 Outpost Mountain
YUK1 Sand Pete Hill
SPY Shingle Point
SIY Silver City
YUK4 Talbot Arm
WL-YK Watson Lake
WL- Watson Lake WL-YK
WH-YK Whitehorse
WHC Whitehorse
WH2YK Whitehorse
WH- Whitehorse WH-YK
WHY Whitehorse
WH2* Whitehorse WH2YK
YUK2 White River

Grenada
GCMP Grenada, Carriacou, Mt. Pleasant
GRFF Grenada Fort Frederick, Mt. Wheldale, St. Georges
GRGR Grenville

Mexico
Aguascalientes
AGX Aguascalientes
Baja California
LAX Bahia de Los Angeles
CBX Cerro Bola
CPBX Cerro Prieto
CHIX Chihuahua
DELX Delta
ECBX El Chinero
EGM El Golfo de Santa Clara
EMX El Mayor
ZAX El Zacaton
ENX Ensenada
ECX Ensenada
ECNX Esteban Cantu
IGM Isla Guadalupe
JQX Jiquilpan
LPIG La Paz
LPX La Paz
LAP La Paz
RMX La Rumorosa
MBIG Mexicali
PGX Piedras Gordas
PPXB Puerto Peˆ–asco
PBX Punta Banda
RDX Rancho Dawling
RSJ Rancho San Jose
RII Riito
SALX Saltillo
SFP San Felipe
SFX San Felipe
SJX San Joaquin
SMX San Miguel
SPX San Pedro Martir
SRIG Santa Rosalia
SRL Santa Rosalia
SLBS Sierra La Laguna
TKX Tecate
UABX UABC, Campus Mexicali
VEX Veracruz
VCP Volcan Cerro Prieto
Campeche
SCIG Sabancuy
TUIG Tuzandepetl
Chiapas
CZC Chiapa de Corzo
VGP Chiapas
PORM Chiapas
BJU Chiapas
ARL Chiapas
UJZ Chiapas
LIBM Chiapas
TANM Chiapas
SIPM Chiapas
ZZA Chiapas
PENM Chiapas
MARM Chiapas
PAY Chiapas
CSN Chicoasen
CR1 Chicoasen 1
CR2 Chicoasen 2
CR3 Chicoasen 3
CR4 Chicoasen 4
CR5 Chicoasen 5
CR6 Chicoasen 6
CR7 Chicoasen 7
COM Comitan
CCIG Comitan
COM2 Comitan 2
EJC Estacion Juarez
IHC Ixhuatan
IXC Ixtacomitan
JDN Jardin
OZC Ocozocoautla
OSCM Ostuacan
PMM Presa Malpaso
PN1 Presa Penitas 1
PN2 Presa Penitas 2
PN3 Presa Penitas 3
PN4 Presa Penitas 4 PORM
SCX San Cristobal
SMJM Simojovel
TPX Tapachula
TLA Tapachula
TCX Tecpatan
TGBT Tuxtla Gutierrez
MUX Union Juarez
ZAC Zacaltic
THIG
PCIG
TGIG
Chihuahua
CHH Chihuahua
Colima
CMX Colima COLM
COLM Colima
H06N Isla Socorro
SRR Isla Socorro
MNZ Manzanillo
H06S1 SOCORRO T
H06E1 SOCORRO T-PHASE SITE E1
H06N1 SOCORRO T-PHASE SITE N1
H06E
R15V
H06S
EZ5V
Guanajuato
IGIG Irapuato, Guanajuato
LCG Leon Cerro Gordo
Guerrero
ACX Acapulco
CDAM Ciudad Altamirano
CAIG El Cayaco
FLOM Florida
CGG Guerrero
LLJ Guerrero
III Iguala
UON La Union
LVGX La Villita
MEIG Mezcala
NUXM Nuxco
PPNM Papanoa
PPOM Papayo
PNIG Pinotepa
PLIG Platanillo
POGM Potrero Grande
CC1 Presa Caracol 1
CC2 Presa Caracol 2
CC3 Presa Caracol 3
CC4 Presa Caracol 4
CC5 Presa Caracol 5
PIM Presa Infiernillo
ARIG Puente Sto Nino
PDEM Puerto del Eden
PGOM Puerto del Gallo
SJRM San Jeronimo
SMAM San Marcos
TETM Tetitlan
TPG Tlapa
TLIG Tlapa
HMTT Tlapaneco
ZIIG Zihuatanejo
ZIH Zihuatanejo
ZHGX Zihuatanejo
Hidalgo
TLX Tulancingo
Jalisco
CJM Chamela
CGX Ciudad Guzman
GUM Guadalajara
GUM2 Guadalajara 2
LNM Leon
PUVA Puert Vallarta
SFJM Santa Fe
UGO Universidad de Guanajuato
GDLC
ACP2 Acapulco
AMVM AMECAMECA
ATVM ATLACOMULCO
MAVM Malinalco, Edo de Mexico
PBIG Penon de los Banos, D. F.
TPIG Tehuac#an
TJIG Tijuana
TOVM TOLUCA
ZUVM ZUMPANGO
Mexico D.F.
IIA Altzomoni
AYVM Ayaqueme
CRX Cerrillo
CGVM Cerro Gordo
CHVM Chichinautzin
CIVM Cilcuayo
CVM Colonia del Valle
AZVM Cuida Lopez Mateos
DEIG Demacu
IIP El Pino
IIM Instituto de Ingenieria, UNAM
IXT Ixtapalapa
JCM Jocotitlan
MEX Mexico City
OXM Oxtotitlan
PTVM Pico Tres Padres
PBVM Pinon
MDVM Presa Madin
PNVM Presa Marin
RFVM Rio Frio
IIC Rita Coyotepec
SZVM Salazar
SMMM San Miguel
TAC Tacubaya
VTVM Tizayuca
UNM Universidad Nacional Autonoma de Mexico
VCVM Valle de Chalco
MZVM
HSIG
HPIG
CGIG
Mexico:State
IIJ Jocotitlan
IIZ Mezontepec
Michoacan
MMIG Aquila
CCMX Caleta Campos
LAZM Lazaro Cardenas
ZEM Michoacan
BVTM Michoacan
CBZM Michoacan
MOIG Morelia
MRX Morelia
OSM Ostula
URUA Uruapan
Morelos
TPM Tepoztlan
YAIG Yautepec
Nayarit
ANIG Ahuacatlan
IMM Islas Marias
Nuevo Leon
LNIG Linares
TMM Tecnologico de Monterrey
TMM2 Tecnologico de Monterrey 2
VNM Villa de Garcia
Oaxaca
CEO Cerro Encantado
UTMO Huajuapan
HUIG Huatulco
CMIG Matias Romero
OXX Oaxaca
OXBJ Oaxaca
GUO Oaxaca
YOO Oaxaca
AZO Oaxaca
PXO Oaxaca
LAGM Oaxaca
OAX Oaxaca
PSM Palmasola
PIO Pinotepa
PLO Pochutla
PBJ Presa Benito Juarez
PANG Puerto Angel
PEX Puerto Escondido
PEO Puerto Escondido
TEO Teotitlan
TXO Tlaxiaco
VDF Valdeflores
VMO Villa Marinero
VHO Vista Hermosa
VHM Vista Hermosa
Puebla
ACP Acatlan
CHPM Chiautla de Tapia
IISM Ciudad Serdan
CUPM Cuyoaco
MOPM Molcaxac
PPM Popocatepetl
PUE Puebla
PHPU Puebla
CIPM Puebla
CXP Puebla
IIB San Bernardino
SRP Santa Rosa
TCPM Tecamachalco
IIT Tonantzintla
VGM Villa Grajales
Queretaro de Arteaga
JRQG Juriquilla Campus
QUIG Queretaro
Sinaloa
CUL Culiacan
MAIG Mazatlaan
MAZ Mazatlan
MZX Mazatlan
TPB Topolobampo
Sonora
CBS Caborca
GUYB Guaymas
GYM Guaymas
LMX La Mesa Andrade
RHM Rio Hardy
SLX San Luis Rˆ›o Colorado
SPIG San Pedro Martir
EGX Santa Clara
Tabasco
LJS Tabasco
Tamaulipas
TMX Tampico
Tlaxcala
IIO Organos
Veracruz
BUE Buenavista
ABR El Abra
EVV El Vigia
JIL Jilotepec
LVVM Laguna Verde
LVIG Laguna Verde
LJX Las Lajas
PZX Poza Rica
VCM Veracruz
FARM Veracruz
POHV Veracruz
LIMM Veracruz
CAMM Veracruz
LVMM Veracruz
MANM Veracruz
Yucatan
MER Merida
TEIG Tepich
Zacatecas
ZAIG Zacatecas

New York
CMNY Cheesecote Mountain, Pomona, NY
TRNY Table Rock, Ramapo, NY

Pennsylvania
WUPA West Chester University of Pennsylvania, USA

Quebec
LRQ1 La Romaine 2 Dam
LRQ2 La Romaine 2 Dam Dyke F2,
SAKN Sanikiluaq

U.S.A.
Alabama
AX- Alexander City AX-AL
AX-AL Alexander City
AX2 Alexander City AX2AL
AX2AL Alexander City
Z50A Ashland
448A Bay Minette
Y49A Blount Mountain
BRAL Brewton
BO- Brewton BO-AL
BO-AL Brewton
249A Camden
Z47A Carrollton
HGA Collinsville
Z49A Columbiana
DLC Deerlick Creek
248A Dixon Mills
350A Dozier
150A Eclectic
EMA Elm
EU2AL Eutaw
EU- Eutaw EU-AL
EU-AL Eutaw
EU2 Eutaw EU2AL
FLT Fleetwood
FPAL Fort Paine
X50A Fort Payne
X50B Fort Payne
250A Grady
148A Greensboro
HVA Hanceville
X48A Hartselle
HLT Holt
348A Jackson
Y48A Jasper
149A Jones
BKA Kennedy
LRAL Lakeview Retreat
LCAL Lambert Chapel
LAL Leola
147A Livingston
LDG Lodge
LCA Log Cabin
251A Midway
MSAL Mont Sano
Z48A Northport
151A Opelika
OCA Owens Crossroads
PEA Pea Ridge
PTR Peterson
PLAL Pickwick Lake
PWLA Pickwick Lake
Y50A Piedmont
351A Pinckard
RHA Reichold
349A Repton
MLAL Sawyerville
SHA Spring Hill
TDA Talladega
TSAL Tannehill State Park
Y47A UCPARC, Winfield
Alaska
AD8 Adagdak
ADA Adak
ADK Adak
AD-IS Adak Island
AD- Adak Island AD-IS
AGAM Agassiz Lake
AKUT Akutan
AKA Akutan
AKA1 Akutan 1 AKA
AKA2 Akutan 2
AKA4 Akutan 4
AKA5 Akutan 5
AKBBA Akutan Broad B.
AKGG Akutan Green Grass
AHB Akutan Harbor
AKLV Akutan Long Valley
AKMO Akutan Morgan
AKRB Akutan Reef Bight
HSB Akutan Spr's Bay
AKSA Akutan Strait
AKV Akutan Volcano
ZRO Akutan Zero
ALC Alcan
ACK Alder Creek
ALAR ALPA Array Beam Reference Point
AL31 ALPA Array Site 31 ALAR
AL32 ALPA Array Site 32
AL33 ALPA Array Site 33
AL5 ALPA Array Site 35
AL36 ALPA Array Site 36
AL37 ALPA Array Site 37
AMA Amatignak Island
AMKA Amchitka
AEB Amchitka ASB
AMC* Amchitka
ANA Amchitka
AC-IS Amchitka
ANB Amchitka
AND Amchitka
ASB Amchitka
ASC Amchitka
ASD Amchitka
AWA Amchitka
ACA Amchitka Central A
ACB Amchitka Central B
ACC Amchitka Central C
ACD Amchitka Central D
ACE Amchitka Central E
ACF Amchitka Central F
AME Amchitka East
ANI* Anchorage ANH
AMU Anchorage
ANH Anchorage
ANCK Angle Creek
ACHA Angle Creek Headwaters
ANI Aniakchak
ANKA Aniakchak
ANON Aniakchak
AZAC Aniakchak
ANIA Aniakchak Crater
AJAX Aniakchak Jack
ANNE Aniakchak Northeast
ANNW Aniakchak Northwest
ANPK Aniakchak Peak
ANPB Aniakchak Plenty Bear
ANV Anvil Mountain ANM
AA-IS Atka
ATKA Atka Island
FX1 Attu Island--Fox
ATTU Attu Island--Fox FX1
AUCH Augustine Cone H
AUD Augustine Domo
AUF Augustine Flow
AUH Augustine H
AGI Augustine Island
AUE Augustine Island
AUI Augustine Island
AU2 Augustine Island
AUJK Augustine Juegen Kienle
AUJA Augustine Junction
AUL Augustine Lava
AU22 Augustine Mound
AUM Augustine Mound
AUNW Augustine NWest

Code	Station Name	Other
AUP	Augustine Pinnacle	
AUQ	Augustine Qik'rtamen	
AUSE	Augustine SEast	
AGU	Augustine-Summit	
AUW	Augustine West	
ABF	Auke Bay	
BAGL	Bagley Icefield	
BALM	Baldy	
BALA	Baldy Mountain	
BCPM	Bancas Point	
BARK	Barkley Ridge	
BARN	Barnard Glacier	
BGL	Barrier Glacier	
BGRM	Barrier Glacier Two	
A21K	Barrow	
BRV	Barrow	
BRW	Barrow	
BI1	Barter Island	
BI2	Barter Island	
BI3	Barter Island	
BI4	Barter Island	
BPAW	Bear Paw Mtn.	
BCAR	Beaver Creek Array Beam Reference Point	
BC01	Beaver Creek Array Site 1	
BC02	Beaver Creek Array Site 2	
BCA3	Beaver Creek Array Site 3	BCAR
BC04	Beaver Creek Array Site 4	
BC05	Beaver Creek Array Site 5	
BLGA	Beluga	
BEH	Bench	
CKT	Bend	
BERG	Berg Lake	
BGLC	Bering Glacier BLM Camp	
BBO	Besboro Island	
BESE	Bessie Mountain	
BET	Bethel	
BQ-AK	Bethel	
BKJ	Big Koniuji Island	
BGM	Big Mountain	
BIG	Big Mountain	
BIO	Biorka	
BRH	Birch Hill	
BLHA	Black Hill	
BLR	Black Rapids	
BKG	Blockade Glacier	
BLM	Blue Mountain	BMT
BMT	Blue Mountain	
AK4	Bobrof	
BRLK	Bradley Lake	
BRNE	Bradley Lake NE	
BRNW	Bradley Lake NW	
BRSE	Bradley Lake SE	
BRSW	Bradley Lake SW	
BMRM	Bremner River	
BDP	Broad Pass	
BWN	Browne	
BRPK	Brown Peak	
BMAR	Burnt Mountain Array Beam Reference Point	
BM01	Burnt Mountain Array Site 1	
BM02	Burnt Mountain Array Site 2	
BM03	Burnt Mountain Array Site 3	BM3
BM3	Burnt Mountain Array Site 3	
BM04	Burnt Mountain Array Site 4	
BM05	Burnt Mountain Array Site 5	BMAR
CAHL	Cahill	
CDL	Candle	
CNA	Cantwell	
CDY	Cape Darby	
CDA	Cape Douglas	
CDD	Cape Douglas	
CPR	Cape Romanzof	
CSA	Cape Sarichef	
CYT	Cape Yakataga	
CYK	Cape Yakataga	
CGLM	Capps Glacier	
CAPN	Captain Cook Nikiski	
CAST	Castle Rocks	
CHX	Chaix Hills	
CKL	Chakachamna Lake	
CKN	Chakachatna North	
SPCN	Chakachatna North Broadband	
CKK	Chekok	
CNBA	Chernabura Island	
CHGN	Chignik	
CSG	Childs Glacier	
CNPM	China Poot	
CHIR	Chirikof Island	
CHIA	Chirikof Island	
CTGM	Chitina Glacier	
CHW	Chowiet Island	
CKR	Christmas Creek	
CUT	Chulitna	
CHB	Church	
TCOL	CIGO, UAF Yankovich Road, Fairbanks	
CRQM	Cirque	
CCB	Clear Creek Butte	
CMA	Clear Mews	
CBA	Cold Bay	
CBY	Cold Bay	
COLD	Coldfoot	
COLA	College	
CMO	College--Fairbanks	
CFI	College Fiord	
COL	College Outpost	
CHSA	Colony High School	
CNTC	Contact Creek	
O22K	Cooper Landing	
CDI	Cordova	
CVA	Cordova	
EYAK	Cordova Ski Area	
CRAG	Craig	
CRP	Crater Peak	
CPAM	Crater Peak Alternate	
SPCP	Crater Peak Broadband	
CPKM	Crater Peak Rim	
CP2	Crater Peak Two	
DMB	Deadman Bay	
DHAK	Deception Hills	
DRIA	Deer Island	
DRRA	Deer Island	
DJE	Delta Junction E	
DMW	Delta Microwave	
DHY	Denali Highway	
DMA	Devil Mountain	
DLL	Dillingham	
DSK	Disk Island	
DIV	Divide	
DLG	Dolgoi Island	
DOL	Dolgoi Island	
DDM	Donnelly Dome	
DOT	Dot Lake	
DFR	Drift River	
DHA	Dutch Harbor	
DUT	Dutch Harbor	
DT1	Dutton Round Hill	
DTNA	Dutton South Flank	
EGAK	Eagle	
EAM	Ear Mountain	
NPO	Eielson Array	
ILAR	Eielson Array Beam Reference Point	
ILB	Eielson Array Broadband	ILAR
IL1	Eielson Array Site 1	
IL10	Eielson Array Site 10	
IL11	Eielson Array Site 11	
IL12	Eielson Array Site 12	
IL13	Eielson Array Site 13	
IL14	Eielson Array Site 14	
IL15	Eielson Array Site 15	
IL16	Eielson Array Site 16	
IL17	Eielson Array Site 17	
IL18	Eielson Array Site 18	
IL19	Eielson Array Site 19	
IL02	Eielson Array Site 2	
IL03	Eielson Array Site 3	
IL04	Eielson Array Site 4	
IL05	Eielson Array Site 5	
IL06	Eielson Array Site 6	
IL07	Eielson Array Site 7	
IL08	Eielson Array Site 8	
IL09	Eielson Array Site 9	
EAFB	Elmendorf Base	
ELV	Elvey	
ENG	Engineer Hill	
ERN	Ernestine	
FB-AK	Fairbanks	
FBAS	Fairbanks	
FB2AK	Fairbanks	
FBA	Fairbanks	
FBK	Fairbanks	
I53US	FAIRBANKS INFRASONIC ARRAY REFERENCE POINT	
FBAL	Fairbanks--Long Period	
FSP	False Pass	
FALS	False Pass	
WFAR	Faris Peak	
FLP	Featherly Pass	
FIB	Fire Island	
FIS	Fire Island	
FY5	Fort Yukon	
FY4	Fort Yukon	
FY3	Fort Yukon	
FY1	Fort Yukon	
FYU	Fort Yukon	
FY2	Fort Yukon	
FOSS	Fourpeaked Station 1	
FONW	Fourpeaked Station 2	
FOPK	Fourpeaked Volcano	
GCSA	Galena City School	
GAMB	Gambell	
GAEA	Gareloi East	
GAKI	Gareloi-Kavalga I.	
GALAA	Gareloi Lava Pt.	
GANO	Gareloi North	
GANE	Gareloi Northeast	
GASW	Gareloi Southwest	
GIA	Geophysical Institute, University of Alaska	
GLB	Gilahina Butte	
GIL	Gilmore Creek	
GLM	Gilmore Dome	GLN
GLN	Gilmore Dome	
GLI	Glacier Island	
GLC	Glacier Island	
GHO	Glory Hole Creek	
GOAT	Goat Mountain	
GKC	Gold King Creek	
GSV	Goldstream Valley	
GSVT	Goldstream Valley	
GOU	Gould Hall	
GBY	Granite Bay	
GRNC	Granite Creek	
GMA	Granite Mountain	
GRLA	Grayling	
AD1	Great Sitkin	
GSCK	Great Sitkin Cape Kiugilak	
GSMY	Great Sitkin Middle Yoke	
GSSP	Great Sitkin Saddle Point	
GSTR	Great Sitkin Teapot Rock	
GSTD	Great Sitkin Triple Divide	
GRIN	Grindle Hills	
GUL	Gulkana	
GYO	Guyot Hills	
HARP	HAARP	
HAG	Hague Volcano	
HMT	Hamilton	
HDA	Harding Lake	
HQN	Harlequin Lake	
HPP	Hepp	
AD4	Hidden Bay	
HIN	Hinchinbrook Island	
HOM	Homer	
HUR	Hurricane	
GSIG	Igitkin Island	
ILIM	Iliamna	
ILM	Iliamna	
ILS	Iliamna Low South	
INE	Iliamna NE	
INW	Iliamna NW	
IVS	Iliamna South	
IVE	Iliamna Volcano East	
ILW	Iliamna West	
RIDG	Independ'e Ridge	
IMA	Indian Mountain	
IMA2	Indian Mountain	
IMAR	Indian Mountain Array Beam Reference Point	
IM01	Indian Mountain Array Site 1	
IM02	Indian Mountain Array Site 2	
IM3	Indian Mountain Array Site 3	
IM04	Indian Mountain Array Site 4	
IM05	Indian Mountain Array Site 5	
ISTK	Isanotski	
ISNN	Isanotski North	
IVF	Ivanof Bay	
JPK	Jack Peak	
JIS	Juneau Island	
ISLE	Juniper Island	
AD3	Kagalaska	
ETKA	Kagalaska Island	
KICM	Kanaga Island Cape Miga	
KIKV	Kanaga Island Kanaga Volcano	
KIMD	Kanaga Island MID Benchmark	
KINC	Kanaga Island North Cape	
KIRH	Kanaga Island Round Head	
KIWB	Kanaga Island Westway Bight	
KTH	Kantishna Hills	
KAWH	Katmai	
KTM	Katmai	
KABR	Katmai Barrier Ridge	
KBM	Katmai Bkd Mtn	
KABU	Katmai Buttress	
KAHC	Katmai Hardscrabble Creek	
KAHG	Katmai Hook Glacier	
KAIC	Katmai Ikagluik Creek	
KAKN	Katmai Knife Crk	
KCE	Katmai Mt Cerb's	
KAPH	Katmai Pasha	
KARR	Katmai Rainbow River	
KVTA	Katmai Vly 10 NE	
KAIM	Kayak Island	
KYK	Kayak Island	
KJL	Kejulik	
KEN	Kenai	
KCN	Ketchikan	
KHIT	Khitrov Hills	
KIAG	Kiagna River	
KMP	Kimball Pass	
KLU	Klutina	
KCG	Knife Ck. Glacier	
KNIM	Knight Island	
KNK	Knik Glacier	
KD1	Kodiak	
KD3	Kodiak	
KD2	Kodiak	
KDAK	Kodiak Island	
KDC	Kodiak Island	
KGR	Kogok River	
KKLA	Kookooligit Mountain	
KONE	Korovin Northeast	
KONW	Korovin Northwest	
KOSE	Korovin Southeast	
KOKV	Korovin Volcano	
KOWE	Korovin West	
KTA	Kotzebue	
KULT	Kultieth River Mountain	
CHUM	Lake Minchumina	
LTI	Latouche	
LVA	Lava Point	
LVY	Levy	
LSI	Little Sitkin Island	
LSNW	Little Sitkin NW	
LSPA	Little Sitkin PP	
LSSA	Little Sitkin S'e	
LSSE	Little Sitkin SE	
LOGN	Logan Glacier	
LOU	Louis Bay	
MRS	Maars	
OKFG	Magazine Ridge	
MGLS	Mageik Landslide	
MCIR	Makushin Cirque	
MGOD	Makushin Gods Own Repeater Site	
MSOM	Makushin Julie Andrews	
MNAT	Makushin Nateekin	
MREP	Makushin Rep'tr	
MSW	Makushin Switchbacks	
MTBL	Makushin Table Top	
MLP	Malaspina Glacier	MLA
MLA	Malaspina Glacier	
MLY	Manley	
MCARA	McCarthy VSAT	
MCK	McKinley	
MCNL	McNeil River	
MCL	McNeil River	
MENT	Mentasta	
MCR	Mercer	
MESA	MESA	
MMC	Middle Cape	
MID	Middleton Island	
MIK	Minitrack	
MFA	Mitchell Field	
MTU	Montague Island	
MTG	Montague Island	
MSE	Moose Creek	
MCB	Moose Creek Bluff	
MPA	Moose Pass	
ADAG	Mount Adagdak	
KELA	Mount Kelaz	
KOKL	Mount Kliuchef	
SPU	Mount Spurr	
MDM	Murphy Dome	
NAGA	Nagai Island	
NGI	Nagai Island	
NCA	Nelchina	
NEA2	Nenana	
NEA	Nenana	
NICHA	Nichawk Mountain	
NKA	Nikishka	
NHSA	Nikolaevsk School	
NKI	Nikolski	
NIKO	Nikolski	
NIK	Nikolski	
NIKH	Nikolski High Hill	
NNL	Ninilchik	
NIN	Ninilchik One	
NOM	Nome	
ANM	Nome	
NCG	North Capps Glacier	
NCT	North Crescent	
NGL	North Gasline	
AD7	North Kanaga	
SPNN	North Nagishlamina, Mt. Spurr	
NRA	North River	
AK0	North Tanaga	
AK3	North Tanaga	
AK5	North Tanaga	
AT3	North Tanaga	AK3
NTK	Nunatak	
OPT	Oil Point	
OKAK	Okmok	
OKCD	Okmok Cone D	
OKCE	Okmok Cone E	
OKCF	Okmok Cone F	
OKER	Okmok East Rim	
OKID	Okmok Mt. Idak	
OKTU	Okmok Mt. Tulik	
OKNC	Okmok New Cone D	
OKRE	Okmok R'deer Pt	
OKSO	Okmok South	
OKSP	Okmok Steeple Pt	
OKWR	Okmok West Rim	
OKWE	Okmok W'ng Wall	
PMR	Palmer	
PME	Palmer East	
PHSA	Palmer High School	
PMS	Palmer South	
PLRM	Palmer USGS	PMR
PWA	Palmer West	
PTPK	Patty Peak	
PN6	Pavlof North-6	
PN7A	Pavlof North-7A	
PS1A	Pavlof South-1A	
PS4	Pavlof South-4	
PS4A	Pavlof South-4A	
PVV	Pavlof Volcano	
PVK	Pavook Mountain	
PAX	Paxson	
PDB	Pedro Bay	
PJD	Pedro Dome	
PNL	Peninsula	
PRYA	Perryville	
PBG1	Petersburg	
PSA	Petersburg	
PBG	Petersburg	
PPSA	Petersburg Public Schools	
PLK1	Peulik 1	
PLK2	Peulik 2	
PLK3	Peulik 3	
PLK4	Peulik 4	
PLK5	Peulik 5	
PLBL	Peulik Blue Creek	
PLWL	Peulik Whale Mountain	
PCA	Pinnacle	
PINM	Pinnacle	PCA
PNN	Pinnacle Mountain	
WPOG	Pogromni	
PTB	Point Barrow	
POKR	Poker Plat Research Range	
PRP	Porcupine Dome	
PTE	Portage	
PTCL	Port Clarence	
FID	Port Fidalgo	
PHA	Port Heiden	
PMA	Port Moller	
PWL	Port Wells	
KPE	Price	
PUB	Puale Bay	
PPLA	Purkeypile	
RC01	Rabbit Creek Array Site 1	
RGD	Ragged Mountain	
RAGM	Ragged Mountain	
RAI	Raspberry Island	
RAT	Rat Island	
RDOG	Red Dog Mine	
RDT	Redoubt	
RDDR	Redoubt East 2	
REF	Redoubt East Flank	
RDJH	Redoubt Jeurgen	
RDN	Redoubt North	
RDSO	Redoubt South	
RSO	Redoubt South	
RS1	Redoubt South 1	
RS2	Redoubt South 2	
RED	Redoubt Volcano	
RDE	Redoubt Vol. East	
RDW	Redoubt West	
RDWB	Redoubt West	
RND	Reindeer	
REM	Remote	
RON	Remote	
RIU	Riou	
RKAV	Rock Avalanche	
SDEM	Sadie Cove	
STMI	Saint Michael	
SPP	Saint Paul	
SP-IS	Saint Paul	
SPIA	Saint Paul Island	
SPI	Saint Paul Islands	
SAMH	Samovar Hills	
SNKA	Sanak Island	
SBY	Sand Bay	
SCRK	Sand Creek	
SGB	San Diego Bay	
SDPT	Sand Point	
SDN	Sand Point	
SASA	Sand Point	
SPBA	Sand Point BB	
SVGA	Savoonga	
SOV	Savoonga	
SML	Sawmill	
SCT	Scotty Lake	
XLV	Seldovia	
SLV	Seldovia	
CEAP	Semis' Anvil Peak	
CERB	Semis' Cerberus	
SSI	Semisopochnoi Island	
CEPE	Semis' Perret Rge	
CERAA	Semis' Rag'd Top	
CESW	Semis' Southwest	
CETU	Semis' Tuman	
SEW	Seward	
SCF	Sheep Creek Facility	
SCM	Sheep Creek Mountain	
SQ-IS	Shemya	
SHY	Shemya	

Code	*Station Name*	*Other*
SMY	Shemya	
SGAM	Sherman Glacier	
SSBA	Shishaldin	
SSLN	Shishaldin North	
SSLS	Shishaldin South	
SSLW	Shishaldin West	
SHU	Shuyak Island	
SYI	Shuyak Island	
RDS	Siegrist	
SIT	Sitka	
SKD	Sitkalidak Island	
SII	Sitkinak Island	
SKAG	Skagway	
SKGA	Skagway School	
SKL	Skilak	
SLKM	Skilak Lake	
SKT	Skwentna	
SDG	Sourdough	
AD6	South Kanaga	
AK2	South Tanaga	
AT2	South Tanaga	AK2
SVW2	Sparrevohn	
SVW	Sparrevohn	
SPL	Spiridon Lake	
SPBG	Spurr Blockage Glacier	
SPCG	Spurr Capps Glacier	
SPCR	Spurr Chakachatna River	
SPNW	Spurr Northwest	
SPWE	Spurr West	
SQF	Squaw Harbor	
SGA	Stephens Glacier	
STY	Stony River	
STLK	Strandline Lake	
SUK	Suckling Hill	
SUCK	Suckling Hills	
SSH	Sunshine	
SNH	Sunshine Point	
SBEA	Susan B. English School	
SST	Susitna	
SUA	Susitna One	
TABL	Table Mountain	
TLK	Talkeetna Mountains	
TACS	Tanaga Cape Sajaka	
TAFP	Tanaga Falls Point	
TAFL	Tanaga Flats	
TANO	Tanaga North	
TAPA	Tanaga Point Aries	
TASE	Tanaga Southeast	
TGL	Tana Glacier	
TNN	Tanana	
PS10	TAPS Pump St10	
PS11	TAPS Pump St11	
PS12	TAPS Pump St12	
PS01	TAPS Pump Stn	
PS04	TAPS Pump Stn4	
PS05	TAPS Pump Stn5	
PS06	TAPS Pump Stn6	
PS07	TAPS Pump Stn7	
PS08	TAPS Pump Stn8	
PS09	TAPS Pump Stn9	
VMT	TAPS Tl Valdez	
TT01	Tatalina	
TTA	Tatalina	
TTL	Tatalina	
TZL	Tazlina	
TLR	Teller	
TTV	Teren Tiev Lake	
TRF	Thorofare Mountain	
TCY	Tin City	
TNA	Tin City	
TMW	Tok Microwave	
TOA	Tolsona	
TOLK	Toolik Lake Research Station	
TKK	Topkok	
TRAP	Trapper Creek	
THY	Trims Highway	
TSIM	Tsina	
WTUG	Tugumak	
UGI	Ugak Island	
UKL	Ugashik Lake	
USL	Ugashik Lake	
AD2	Umak	
UNL	Unalakleet	
UNA	Unalaska	
UNV	Unalaska Valley	
VLZ	Valdez	
VLD	Valdez	
VZS	Valdez South	
VZW	Valdez West	
BPBCA	Veniaminof	
VNHG	Veniaminof 1	
VNFG	Veniaminof 2	
VNNF	Veniaminof 3	
VNKR	Veniaminof 5	
VNSG	Veniaminof 6	
VNSW	Veniaminof 7	
VNWF	Veniaminof 8	
VNSS	Veniaminof 8	
VRDI	Verde Repeater	
VOGL	Vogel Lake	
WAX	Waxell Ridge	
WESE	West Dahl East	
WESN	West Dahl North	
WESS	West Dahl South	
AK1	West Kanaga	
AT1	West Kanaga	AK1
WRG	White River Glacier	
WLM	Willow Mountain	
WRH	Wood River Hill	
WACK	Wrangell Chichokna Glacier	
WRAK	Wrangell Island	
WAZA	Wrangell Mount Zanetti	
WANC	Wrangell North Crater	
WASW	Wrangell Southwest	
YAH	Yahtse	
AD5	Yakak	
YKGM	Yakataga	
YKT	Yakutat	
YKU2	Yakutat	
YKU	Yakutat	
YCB	Yellow Creek Bluff	
IM03		IM3
AL34		FBAL
IL31		ILB
IL01		IL1
BC03		BCA3
AL35		AL5
BC3*		BCA3
Aleutian Islands, Alaska		
ISLZ	Isanotski Lazaref River	
WEBT	Westdahl Beartrack Creek	
WECS	Westdahl Cape Sarichef	
WESP	Westdahl Peak	
Arizona		
AJAR	Ajai Ranch	
GVA	Apache Junction	
ASU	Arizona State University	
119A	Ashpeak Ranch, Duncan	
318A	Bisbee	
114A	Black Gap (USAF), Gila Bend	
BPK	Black Peak	
BRDG	Blue Ridge	
V14A	Boquillas Ranch, Navajo N., Peach Springs	
BDA	Boulder Dam	
Y18A	Canyon Day Junior High, Whiteriver	
Y15A	Casa Rosa Ranch, Morristown	
CCAZ	Cataract Creek	
Y16A	Circle Bar Ranch, Sunflower	
U19A	Dine' College, Tsaile	
319A	Douglas	
218A	Dragoon	
EKU	East Kanab	
116A	Eloy	
FLG	Flagstaff	
W16A	Flagstaff	
FS-	Flagstaff	FS-AZ
FS-AZ	Flagstaff	
FLAG	Flagstaff	
X17A	Forest Lakes	
FTM	Fortuna Mine	
V18A	Ganado	
Z18A	Geronimo	
Z15A	Gila River Indian Community, Laveen	
GCA	Glen Canyon	
T16A	Glen Canyon Dam (NPS), Page	
GE-	Globe	GE-AZ
GE-AZ	Globe	
GCAZ	Grand Canyon	
V13A	Grand Canyon West Ranch, Meadview	
217A	Green Valley	
HR-	Heber	HR-AZ
HR-AZ	Heber	
118A	Homack Ranch, Wilcox	
W13A	Hualapai Mountain Park, Kingman	
X15A	Humboldt	
HTCH	Hutch Mountain	
JR-	Jerome	JR-AZ
JR-AZ	Jerome	
V15A	Kaibab National Forest USFS, William	
KG-	Kingman	KG-AZ
KG-AZ	Kingman	
KG-AS	Kingman	
KH-	Kohls Ranch	KH-AZ
KH-AZ	Kohls Ranch	
LGA	Laguna Mountains	
X16A	Lo Mia Camp, Pine	
LG-AZ	Long Valley	
LG-	Long Valley	LG-AZ
113A	Mohawk Valley, Roll	
MTLAZ	Mount Logan	
U14A	Mt Trumbull	
MMA	Mummy Mountain	
T17A	Navajo Res., Navajo Mountain	
NL2	Nazlini	
NL2AZ	Nazlini	
NL-	Nazlini	NL-AZ
NL-AZ	Nazlini	
U15A	North Rim	
Y19A	Nutrioso	
117A	Oracle	
214A	Organ Pipe National Monument, Ajo	
PGAZ	Page	
U13A	Pakoon Wash	
S15A	Panguitch	
PDMCI	Parker Dam,Lake Havasu City	
PY-	Payson	PY-AZ
PY-AZ	Payson	
Z16A	Peralta Trail, Apache Junction	
W18A	Petrified Forest	
PFA	Pierce Ferry	
QC-	Queen Creek	
Y17A	Roosevelt	
U18A	Rough Rock, Chinle	
SGI03	Saint George Infrasonic Array Site 3	
Y13A	Salome	
Z17A	San Carlos High School, San Carlos	
W19A	Sanders	
SLU	San Luis	
W14A	Seligman	
SG-	Seligman	SG-AZ
SG-AZ	Seligman	
U17A	Shonto	
X18A	Snowflake	
SF-AZ	Snowflake	
SF-	Snowflake	SF-AZ
115A	Sonoran Desert, Stanfield	
SV-	Springerville	SV-AZ
SV-AZ	Springerville	
X19A	St. Johns	
SN-	Sunflower	SN-AZ
SN-AZ	Sunflower	
SCN	Sunset Crater	
216A	Three Points, Tucson	
Z19A	T-Link Ranch, Clifton	
V17A	Tonalea, Kykotsmovi	
TFO	Tonto Forest Array	
THO	Tonto Hills Observatory	
TSL	Tsaile	
U16A	Tuba City	
TUC	Tucson	
TDM	Tucson Desert	
TUO	Tucson Observatory	
TUT	Tucson--Telemeter	
UOA	University of Arizona	
219A	White Tail Canyon, San Simon	
Y14A	Wickenburg	
WMZ	Williams	
WM-	Williams	WM-AZ
W15A	Williams	
WM-AZ	Williams	
V19A	Window Rock	
W17A	Winslow	
WO-	Winslow	WO-AZ
WO-AZ	Winslow	
Z14A	Wintersburg	
WUAZ	Wupatki	
X14A	Yava	
X13A	Yucca	
112A	Yuma	
YMD	Yuma Desert	
Z13A	Yuma Proving Gounds (US Army), Dateland	
Arkansas		
Z43A	Armstrong Family, Eudora	
AFAR	Ash Flat	
BK-AR	Bald Knob	
W42A	Bald Knob	
BK-	Bald Knob	BK-AR
X40A	Basin Creek Farm, Marlvern	
V44A	Blytheville	
CCAR	Cane Creek	
V38A	Canehill	
CW-AR	Conway	
CW-	Conway	CW-AR
V42A	Cord	
CRID	Crittenden County--Downhole	
CRIS	Crittenden County--Surface	
DLAR	Dell	
Y41A	Eaglette Bearden	
FAY	Fayetteville	
FAV	Fayetteville	
W40A	Ferguson Farm, Pottsville	
W43A	Forest City	
X39A	Fountain Ranch, Mena	
Y42A	Garnett, Star City	
W41B	Gary Mavity, Velonia	
U38A	Gravette	
X102	Greenbrier Site X102	
X201	Greenbrier Site X201	
X301	Greenbrier Site X301	
U39A	Green Forest	
HBAR	Harrisburg	
HCI	Hatchie Coon Island	
HHAR	Hobbs	
HOGG	Hoggard's Bluff	
IK-AR	Ink	
IK-	Ink	IK-AR
V43A	Jonesboro	
JHP	Judd Hill Plantation	
X41A	Kaden, Bauxite	
LGAR	La Grange	
LCAR	Lake Charles	
LVAR	Leachville	
LRA	Little Rock	
Y39A	Lockesburg	
Z40A	Long Farm, Magnolia	
LRDO	Lorado	
W39A	Magazine	
MSAR	Manila South	
MK-AR	Marked Tree	
MK-	Marked Tree	MK-AR
X43A	Marvell	
MY-AR	McCrory	
MY-	McCrory	MY-AR
MCAR	Mid-South CC	
MP-AR	Mountain Pine	
MP-	Mountain Pine	MP-AR
V41A	Mountainview	
MZ-AR	Mount Ida	
MIAR	Mount Ida	
MZ-	Mount Ida	MZ-AR
Z42A	Norrel Spur, Hamburg	
Y40A	Okolona	
OLY	Olyphant	
FCAR	Ozark Folk Center	
PGA	Paragould	
PV-AR	Perryville	
PV-	Perryville	PV-AR
V39A	Pettigrew	
POW	Powhatan	
QUAR	Qualls	
U43A	Rector	
U42A	Revenden	
Z41A	Richland Creek Farm, El Dorado	
X47A	Russelville	
SEAR	Searcy	
STAR	Star City	
X42A	Stuttgart	
W41A	Tony Mavity, Velonia	
TWAR	Twist	
UALR	University of Arkansas, Little Rock	
U41A	Viola	
WGAR	Walnut Grove	
WR-AR	Walnut Ridge	
WR-	Walnut Ridge	WR-AR
WLAR	White Oak Lake	
WLA	Wittsburg Lake	
V40A	Witts Springs	
X49A	Woodville	
WHAR	Wooly Hollow	
WY-AR	Wynne	
WY-	Wynne	WY-AR
U40A	Yellville	
California		
TN-	29 Palms	TN-CL
O03C	Acorn Hollow, Los Molinos	
PADM	Adeladia	
ADL	Adelanto	
ADO	Adelanto Receiving Station	
VAK	Adit at Lawrence Berkeley Lab, Berkeley, CA	
GACM	Adobe Creek	
AVC	Adobe Valley	
AGAC	Agave Hill	
AGOC	Agoura	
AL1	Aidlin Power Plant 1	
AL2	Aidlin Power Plant 2	
AL3	Aidlin Power Plant 3	
AL4	Aidlin Power Plant 4	
AL6	Aidlin Power Plant 6	
AARM	Airport Road	
PAPM	Alder Peak	
GASB	Alder Springs	
GAS	Alder Springs	
ARDC	Alexander Ranch	
GAXM	Alexander Valley	
NADM	Allendale	
JALM	Almaden	AMC
AMC	Almaden	
WASM	Alta Sierra Campground	
ALV	Alvord Mountain	
AMR	Amargosa	
AMS	Amos	
AIC	Anacapa Island	
BAPM	Anderson Peak	
CADM	Anderson Res.	ADR
ADR	Anderson Reservoir	
CAIM	Angel Island	AGC
AGC	Angel Island	
LT13	Angel Island	AGC
ALPC	Antelope	
PAGB	Antelope Grade	
PAGM	Antelope Grade	
LAMM	Antelope Mountain	
ANTCA	Antelope Range	
BAVM	Antelope Valley	
PARM	Anticline Ridge	
CACM	Antioch	
AN9*	Anzar Reservoir 9	
HAZM	Anzar Road	ANZ
ANZ	Anzar Road	
GARM	Arbuckle	
ARC	Arcata	
LASM	Arnica Sink	
CAOM	Arnold Ranch	ARN
ARN	Arnold Ranch	
AASM	Arroyo Seco	
ARVC	Arvin	
NAPC	Atlas Peak	
ADC	Auburn Dam	
BABR	Babbit Peak	
BACC	Bachelor Mtn.	
BKRC	Baker	
BF-CL	Bakersfield	
BF-	Bakersfield	BF-CL
BALC	Balcom Canyon	
CBLG	Bald Mountain Lookout	
BHPC	Baldwin Hills Oil	
GBMM	Baldy Mountain	
BREC	Barre Substation	
BAR	Barrett	
KBRM	Barry Ridge	
PBRM	Bassetti Ranch	
LBMM	Bass Mountain	
BATC	Bat Cave Butte	
BBEB	Bay Bridge East	
E17B	Bay Bridge East Pier 17	
E07B	Bay Bridge East Pier 7	
W02B	Bay Bridge West Pier 2	
W05B	Bay Bridge West Pier 5	
KBBM	Bear Butte	
BCCC	Bear Creek Country Club, Murrieta	
JBCM	Bear Creek Road	LT15
LT15	Bear Creek Road	
JBGM	Bear Gulch	BGH
BGH	Bear Gulch	
BMTC	Bear Mountain	
BVLM	Bear Valley	BVL
BVL	Bear Valley	
BVC	Bear Valley Observatory	NOLM
PKD	Bear Valley Ranch, Parkfield	
BBSC	Beaumont Base	
BEKR	Beckworth	
NBRM	Beebe Ranch	BBR
BBR	Beebe Ranch	
NBRB	Beebe Ranch Broadband	
LBPM	Beegum Peak	
BELC	Belle Mtn. Joshua Tree, Twentynine Palms	
KBSM	Bell Springs	
JBNB	Ben Lomond Mountain, Santa Cruz County	
BNLO	Ben Lomond (Santa Cruz Mountains)	
BENR	Benton	
BKS	Berkeley--Byerly	
BRK	Berkeley--Haviland	
NBPM	Berryessa Peak	
BRTC	Bertell Ranch	
BVH	Beverly Hills	
N02C	Big Bar	
BBC	Big Bear	
BBRC	Big Bear Solar Observatory, Big Bear Lake	
BC3	Big Chuckawalla Mtns, Desert Center	
BC2	Big Chuckwalla Mountains 2	
GBDM	Big Darby	
LBGM	Big Gulch	
R04C	Big Horse Ranch, Ione	
BMM	Big Maria Mountains	
BBGM	Big Mountain	
BBGB	Big Mountain Broadband	
BCKR	Birch Creek	
WBSM	Bird Springs	
BP-CL	Bishop	
BHPR	Bishop	
BP-	Bishop	BP-CL
BCW	Bitter Crk WRge	
PBWM	Bitterwater Creek	BTW
BTW	Bitterwater Creek	
PBPM	Bitterwater Pump Station	
BLCC	Black Canyon	
BCHM	Black Canyon North	
BDM	Black Diamond Mines Park, Antioch	
LBFM	Black Fox Mountain	
BMRR	Black Mountain	
JBMM	Black Mountain	
BLDC	Black Mountain	
BLKC	Black Mountain	

Code	Station Name	Other
GBOM	Black Oak	
BLAC	Blackrock camp	
MBFM	Blanchard Fire Station	
OBHM	Bloomer Hill	
KBNM	Bluenose Ridge	
BLU	Blue Ridge	
Y12C	Blythe	
BLYC	Blythe	
ABJM	Bob Jauregui Ranch	
BODR	Bodie	
GBGM	Boggs Mountain	
CBRM	Bolinger Road	BGC
BGC	Bolinger Road	
LT16	Bolinger Road	BGC
LBKM	Bonanza King	
BON	Bonds Corner	
BRGC	Borrego Mountain	
BORC	Borrego Springs	
BRP	Bottle Rock Power	
V05C	Boulder Hill, Kettleman City	
BCH	Branch Mountain	
WBMM	Breckenridge Mountain	
BRIB	Briones	
SBRN	Brisbane	
BSCP	Brocks Farm	
CBWM	Brookwood Res.	BKC
BKC	Brookwood Reservoir	
ABRM	Brophy Road	
BTCC	Brunts Corner	
PBYM	Bryson	
CBZL	Buffer Zone	
BL67	Building 67, Lawrence Berkeley Lab, Berkeley, CA	
BL88	Building 88, Lawrence Berkeley Lab, Berkeley, CA	
BTPC	Burnt Peak	
BTL	Butler Peak	
LBCM	Butte Creek Rim	
JBZM	Buzzard Lagoon Road	
BZNA	Buzz No.'s Place	
CBSM	Byron Hot Springs	
CBSNC	Byron Hot Springs, Alameda County	
CTCC	Cactus City	
WCFM	Cactus Flat W	CFWM
CFWM	Cactus Flat West	
WCPM	Cactus Peak W	CPTM
CPTM	Cactus Peak West	
CAD	Cady Mountains	
JCHM	Cahill Ridge	
KCPM	Cahto Peak	
CAHC	Cahuilla Valley	
CALB	Calabasas	
CALM	Calaveras Res.	CVR
CVR	Calaveras Reservoir	
CLTC	Calectric	
CB2	Calero Reservoir	
CCAC	Calif City Airpt	
CALC	California City	
CSH	California State, Hayward	
CLIC	Calipatria	
CLS	Calistoga	
M02C	Callahan	
CPPC	Cal Poly Pomona	
BAKC	Calstate	
CSHM	Cal. St., Hayward	CSH
CBCC	Caltech Broad	
CACC	Caltech Cellar	
GSA	Caltech--GSA	
CRPC	Caltech Rob'n Pit	
CAMC	Camarillo Hills	
PCBM	Cambria	
JBLM	Camp Ben Lomond	
CPE	Camp Elliot	
109C	Camp Elliot, Miramar	
CP-CL	Campo	
CP-	Campo	CP-CL
CPT	Camp Pendleton	
KSXM	Camp Six	
KSXB	Camp Six Broadband	
CDC	Canada Road	
AN7*	Canada Road	CDC
HCAM	Canada Road	CDC
CBKC	Canebrake	
NCFM	Canfield Road	
KCTM	Capetown	
CAPCA	Capra Ranch	
CVS	Carmenet Vineyards, Sonoma	
CRQB	Carquinez Bridge	
CARC	Carrizo Plain	
CRR	Carrizo Plain	
MCHM	Carson Hill	CRH
CRH	Carson Hill	
CRY	Cary Ranch	
MCBM	Casa Benchmark	
DBOG	Casa Diablo	
MCSM	Casa Diablo Hot Springs	
CASR	Casa Diablo Mountain	
CJV	Casa Juvan	
BCD	Casitas Dam	
BCL	Casitas Lake	
LCAM	Castella	
CTM	Castle Mountain	
PCAM	Castle Mt.	CTM
CRC	Castle Rock	
GCRM	Castle Rock Springs	
CTD	Catalina Dam	
CIAC	Catalina I. Airport	
CIU	Catalina Island	
CIS	Catalina Island Airport, Avalon	
NCDM	Cavedale Road	CRD
CRD	Cavedale Road	
CAVC	Cave Mountain	
CED	Cedar Springs	
CSP	Cedar Springs	
CFSC	Central Fire St	
MCEM	Central Site	
PCGM	Cerro Alto Campground	
CGO	Cerro Gordo	
KCRM	Chalk Rock	
CBC	Chamberlain	
HCBM	Chamberlain	CBC
GCBM	Chamberlain Ridge	
HCRM	Chase Ranch	CSR
CSR	Chase Ranch	
AN6*	Chase Ranch	CSR
CMH	Chemehuevi Mountains	
JCBM	Chesbro Res.	CBO
CB1	Chesbro Res. 1	ADR
CB3	Chesbro Res. 3	COE
CB4	Chesbro Res. 4	ARN
CB5	Chesbro Res. 5	SVC
CB6	Chesbro Res. 6	CVR
CB8	Chesbro Res. 8	
CBO	Chesbro Reservoir	
O04C	Chester	
BCWM	Chews Ridge	
CCO	Chico	
MCDM	Chidago Canyon	
CFL	Chilao Flats	
CHFC	Chilao Flat Sta	
WCHM	Chimney Peak	
WCGM	China Gardens	CGSM
CGSM	China Gardens South	
GPO	China Lake	
CLC	China Lake	
WCXM	China Lake Receiver Site	
CHNC	Chino	
CH2	Chocolate Mountain	
COT	Chocolate Mountains	
CCRB	Cholame Creek	
PCMM	Cholame Hills	
CVC	Cholame Valley	
CCCA	Chr Cany lake	
XMS	Christmas Canyon	
CHP	Chuchupate	
CCX	Cicese	
AN14*	Cienega Rd	BCGM
BCGM	Cienega Road	
GCK	Clark Valley	
GCVM	Cloverdale	
COA	Coachella	
GCMM	Cobb Mountain	
COE	Coe Ranch	
CCOM	Coe Ranch	COE
CCOB	Coe Ranch Number 3	
OCHM	Cohasset Ridge	
LCMM	Colby Mountain	
GCSM	Cold Spring Mountain	
KCSM	Cold Springs	
CWCR	Coldwater Canyon	
R06C	Coleville	
LCSM	College of the Siskiyous	
BCC	Colson Canyon	
SCCM	Colson Canyon	
CMB	Columbia College	
COOC	Compton	
CNC	Concord--Diablo Valley College	
MCVM	Convict Lake	
MCMM	Convict Lake	
CKC	Cook Canyon	
WCOM	Cook Peak	
COK	Cook Ranch	
CPM	Copper Mountain	
MCUM	Copperopolis	
MCUB	Copperopolis Broadband	
HCZM	Cordoza Dairy	
HCOM	Corn Cob Canyon	
CRNC	Corona	
COQ	Corona Quarry	
CSTL	Corral Hollow	
CBHM	Coso Basin North	
WCSM	Coso Springs S	CSSM
CSSM	Coso Springs South	
C055	Cottonwood Avenue, Hayward	
CWC	Cottonwood Creek, Lone Pine	
CTW	Cottonwood Mountains	
GCWM	Cow Mountain	
CO2	Coxcomb Mountains 2	
CYD1	Coyote D'meter	
CCYM	Coyote Hills	
LT8	Coyote Hills	CYH
CYH	Coyote Hills	
COY	Coyote Mountain	
JCPM	Coyote Point	
CFT	Crafton Hills	
PCCM	Crazy Canyon	
M01C	Crescent City	
LCFM	Crescent Cliff	
CSL	Crestline	
HCPM	Crevison Peak	
CRGC	Crocker Grade	
CCNM	Crow Canyon Rd	CYC
CYC	Crow Canyon Road	
CLKR	Crowley Lake	
XTL	Crystal Lake, Glendora	
PCRM	Curry Mountain	
DLT	Dalton	
CDAL	Dalton Road	
DANC	Danby, Needles	
DAC	Darwin (Calif)	
DPD	Davis Peak	
MDCM	Deadman Creek	
DV-CL	Death Valley	
DV-	Death Valley	DV-CL
DSP	Deep Springs	
DLAC	Del Amo	
CDVM	Del Valle	
CL1	Del Valle	CDVM
DHS	Desert Hot Springs	
DREC	Desert Rsrch Ctr	
DSCC	Desert Studies Ctr	
DTP	Desert Tortoise Park	
DVTC	Desert View Tower, Jacumba	
DEVC	Devers	
DVL	Devil Canyon	
DKNM	Devils Kitchen North	
MDPM	Devils Postpile	
MDPB	Devils Postpile Broadband	
DCD	Diablo Creek	
DIR	Diamond Ranch	
LDBM	Digger Butte	
AN5*	Dillon Ranch	DIL
HDLM	Dillon Ranch	DIL
DIL	Dillon Ranch	
MDRNC	Doe Ridge	
PDRM	Domengine Ranch	
DGR	Domenigoni Valley Reservoir	
DJJ	Donna J Jenkins	
DONR	Donner Summit	
CDSM	Don Santos Ranch	
CDOM	Doolan Road	DOO
DOO	Doolan Road	
DPP	Dos Picos Cty Pk	
P01C	Double 8 Ranch, Willits	
DB2	Double Butte	
DBM	Double Mountain	
DHB	Downhole Baldwin Hills	
GDCM	Dry Creek	
MDYM	Dry Creek	
ADWM	Drytown Water District	
DUC	Duarte Ranch	
DTEM	Dunmovintown East	
NDHM	Dunnigan Hills	
DNR	Dunn Ranch,Anza	
CDUM	Durate Ranch	DUC
EADB	Eade Ranch	
T05C	Eagle Field, Dos Palos	
ELFS	Eagle Lake Field Station, Susanville	
EAG	Eagle Mountain	
MEMM	East Mammoth Hills	
EMSC	East Mesa	
EWC	East Wide Canyon	
EBP	Ebbets Pass	
ECF	Echo Falls	
RRX	Edison Barstow Service Cntr. Barstow	
EDW2	Edwards Air Force Base 2, Rosamond	
EDW	Edwards Air Force Base,Rosamund	
O01C	Eel River Conservation Camp, Redway	
ECA	El Cajon	
ECC	El Centro	
JEGM	El Granada	
EKH	Elkhorn Ranch	
BEHM	Elkhorn Ranch	EKH
HERM	Elkhorn Road	
EKR	Elk River	
JELM	Ellicott	
JELB	Ellicott, Santa Cruz County	
ELMC	El Mirage	
EL2	El Mirage 2	
EML	El Monte Cty Pk	
ELRC	Elmore Ranch	
ERRC	Elmore Ranch	
ESGS	El Segundo	
ELS	Elsinore Mountain	
TEJ	El Tejon	
EMB	Emerald Bay	
EFD	Emergency Operations Facility	
BEMM	Emmet	EMT
EMT	Emmet	
LT11	Empire Grade Rd	EGR
EGR	Empire Grade Road	
ERPC	Ernies Place	
EUC	Eureka Canyon	
JECM	Eureka Canyon	EUC
LT12	Eureka Canyon	EUC
JECB	Eureka Canyon	
EW2	E Wide Canyon 2	
EXSG	Experiment Station	
FAL	Falling Springs	
NFIM	Farallon Islands	
FARB	Farallon Islands	
FRGC	Fargo Canyon	
KFPM	Farley Peak	
FEA	Feather Falls	
FER	Ferndale	
FHC	Fickle Hill	
AFRM	Fiddyment Ranch	
FIGC	Figueroa Mtn.	
FIL	Fillmore	
MFBM	Five Bridges	
FLSC	Flash Two Peak	
HFHM	Flint Hills	
FON	Fontana	
JFP	Foothills Park , Santa Clara County	
FRD	Ford Ranch, Anza	
AFDM	Forest Hills Divide	
AFHM	Forest Hill Site	
AN2*	Forsythe	
FMA	Fort MacArthur	
FMP	Fort Macarthur Park, San Pedro	
FTR	Fort Ross	
FTC	Fort Tejon	
FOXC	Fox Airport	
FOX	Fox Creek	
FNF	Frandzen Federal Estate	
HFPM	Fremont Peak	FRP
FRP	Fremont Peak	
FRE	Fresno	
FRI	Friant	
FRK	Frink	
FROB	Froelich Ranch	
FULC	Fullerton	
FLAS	Fullerton Airport	
FUM	Fumarole	
FMT	Funeral Mountains	
GFC	Funks Creek	
FURC	Furnace Creek,Death Valley	
GALC	Galileo	
LGMM	Garner Mountain	
GVDA	Garner Valley	
GVRC	Garvey Reservoir	
CGPM	Gavin Park	
GGPM	Geyser Peak	
GDXM	Geysers	
GHS	Gilroy Hot Springs	
HGSM	Gilroy Springs	GHS
HGWM	Gilroy West	
GLA	Glamis	
GAV	Glen Avon	
GGLM	Glenview	
GATR	Gnd/Air Tx Cntr	
GTM	Goat Mountain	
PGHM	Gold Hill	GHC
GHIB	Gold Hill	
PK1	Gold Hill	GHC
GHC	Gold Hill	
AGIM	Gold Rush Inn	
GSC	Goldstone, Barstow	
PGWM	Grace West	
GCC	Granite Creek	
GMRC	Granite Mountains Research Center, Essex	
GRP	Granite Pass	
LGPM	Granite Peak	
GVN	Grapevine	
GRAC	Grapevine Ranger Station, Death Valley	
MGPM	Gravel Pit	
LGBM	Gray Butte	
GORC	Green Oak Ranch	
VSTC	Green Oak Ranch, Vista	
GVR	Green Valley Road	
DECC	Green Verdugo Microwave Site, Sunland	
GWV	Greenwater Valley	
GWY	Greenwater Valley	
LGRM	Grenada	
GR2C	Griffith Obs. 2	
GOC	Griffith Observatory	
GFP	Griffith Park	
LGHM	Grouse Hill	
KGMM	Grouse Mountain	
GGUM	Gualala	
AHDM	Hacienda Drive	
HAI	Haiwee	
HWSM	Haiwee Spring South	
WHSM	Haiwe Spring S	HWSM
GHOM	Hamilton Opening	
HMR	Hamilton Ranch	
WHFM	Hanning Flat	
HWB	Hans Werner Braun Residence, San Diego	
PHAM	Harlan Ranch	
AHRM	Harold F. Ross	
HRC	Harris Ranch	
HAST	Hastings Reserve	
BHSM	Hastings State Park	
LHCM	Hat Creek	
HATC	Hat Creek Radio Observatory, Hat Creek	
HAV	Havilah	
WHVM	Havilah	
HAY	Hayfield	
KHBM	Hayfork Bally	
HYS	Haystack Butte	
NHBM	Healdsburg	
PHCM	Hearst Castle	
HEC	Hector,Ludlow	
PHFM	Heflinger Ranch	
HMTC	Hemet	
HERB	Hercules	
LHEM	Herd Peak	
U04C	Hernandez Reservoir, Idria	
PHRM	Hernandez Valley	HVC
HVC	Hernandez Valley	
PHSM	Hesperia	
PHSB	Hesperia Broadband	
HDB	Hidalgo Marine Base	
HDG	Hidalgo Mountain	
MHDM	Hidden Dam	
LHHM	High Hole Crater	
HLNC	Highland	
GHLM	Highland Springs	
GHVM	High Valley	
HTCR	Hilton Creek	
LHMM	Hirz Mountain	
LHOM	Hoadley Peaks	
HBT	Hobart Mills	
HBM	Hobart Mills	
HOD	Hodge	
BHRM	Hodges Ranch	
GHGM	Hogback Ridge	
PHGM	Hog Canyon	
HOLC	Holcomb Ridge	
JHLM	Holstrom Ranch	
HCC	Holy Cross	
OHCM	Honcut	
PHPM	Hope Ranch	
HOPS	Hopland Field Station, Hopland	
KHMM	Horse Mountain	
HOT	Hot Springs Mountain	
GHCM	House Creek	
JHPM	Huddart Park	
JHUM	Huhtala Lane, Santa Cruz County	
GHMM	Hull Mountain	
HBW	Humming Bird West	
V03C	Hunter Liggett MR Jolon	
PHBM	Huron Fishing Bridge	
IBP	Imperial Boulder Park, Ocotillo	
IND	Independence	
PIVM	Indian Valley	
INDC	Indio Hills	
S04C	Ingram Canyon, Westley	
ING	Ingram Ranch	
IKP	In-Ko-Pah, Jacumba	
INS	Inspiration	
IRS	Iris	
IR2C	Iron Canyon	
IRC	Iron Canyon	
NIMB	Iron Mountain	
IRM	Iron Mountain Pumping Sta,Desert Center	
IRN	Iron Mountains	
KIPM	Iron Peak	
ISA	Isabella, Lake Isabella	
PIRM	Iverson Ranch	
JCC	Jacoby Creek, Bayside	
JAS	Jamestown	
JAS1	Jamestown	
JRSC	Jasper Ridge	
JCNB	Joaquin Canyon North	
JCSB	Joaquin Canyon South	
JJRM	Joaquin Road	
KJJM	Johnny Jack Ridge	
HJSM	John Smith Road	
BJCM	Johnson Can.	JHC
AN15*	Johnson Can.	JHC
JHC	Johnson Canyon	
WJPM	Johns Peak	
JOL	Jolon Road	
PJRM	Jolon Road	JOL
JFS	Joseph F. Staten	
JRC2	Joshua Ridge	
JRWM	Joshua Ridge West	
JTR	Joshua Tree Park	

Code	*Station Name*	*Other*
SNDA	J Saunders Place	
JULC	Julian	
JNH	Juniper Hills	
PJUM	Juniper Ridge	
KCC	Kaiser Creek	
KPK	Kanaka Peak	
KEE	Keen Camp Maintenance Station	
KFC	Kentfield	
WKTM	Kern-Tulare	
PKLM	Kerr Lake	
KKPM	Kettenpom Peak	
PKEM	Kettleman Hills	
KYP	Key Point	
HKRM	Kincaid Ranch	
KRC	King Ranch	
R05C	Kirkwood Meadows Resort, Kirkwood	
KNO	Knox Ranch	
KBY	Kobayashi Ranch	
KM-CL	Kramer	
KM-	Kramer	KM-CL
KBF	Kyburz Flat	
LCGC	La Cienega, Culver City	
LPC	La Cumbre Peak	
BLG	Laguna Peak, Port Hueneme	
LT5	La Honda	
LJC	La Jolla	
CLCB	Lake Chabot	
CLCM	Lake Chabot	LKC
LKC	Lake Chabot	
NLHM	Lake Herman	
LHU	Lake Hughes	
J061	Lakeshore Drive, S. Francisco	
LGC	Lakewood Golf Course	
LANC	Lancaster	
LAC	Landers	
LDFC	Landfair	
LAQC	La Quinta	
LCH	Last Change Range	
ALAM	Latrobe	
LRCG	Laurel Creek	
MLCM	Laurel Creek Canyon	
JLAB	Laurel Hill	
JLAM	Laurel Hill	
LRMC	Laurel Mtn Radio Fac, Ridgecrest	
LAVA	Lava Cap Winery, Placerville	
LAVC	Lavic	
ADIT	Lawson Adit, UC Berkeley, California	
LED	Lead Mountain	
R07C	Lee Vining	
WLPM	Leibel Peak	
LEOC	Leona Valley	
BLRM	Lewis Ranch	
JLXM	Lexington Res.	LXR
LXR	Lexington Reservoir	
M06C	Likely Place Golf, Likely	
Q04C	Lincoln	
ALNM	Lincoln	
MLIM	Lincoln Peak	
LOC	Lincoln School	
HLPM	Lions Peak	
LITR	Litchfield	
LCCB	Little Cholame Creek	
LTC	Little Chuckwalla Mountains	
WLHM	Little Horse	
MLHM	Little Hot Creek	
LTM	Little Maria Mountains	
LMHM	Little Mount Hoffman	
BRVM	Little Rabbit V.	LRV
LRV	Little Rabbit Valley	
LRRC	Littlerock Reservoir	
LLA	Llanada	
LLAC	Llano	
LOK	Lockwood Valley	
JLPM	Loma Prieta	
LOMS	Lomita	
BLP	Lompoc	
LRC	Lone Oak Road	
PLOM	Lone Oak Road	LRC
LN9	Lone Pine	
LTR	Lone Tree Road	
HLTM	Lone Tree Road	LTR
M05C	Lookout	
LMCR	Lookout Mountain	
LMO	Lookout Mountain Observatory	
LMS	Lookout Mountain Observatory	
LNAS	Los Alamitos	
LCM	Los Angeles Museum of Natural History	
LSDC	Los Osos Digital	
JLTM	Los Trancos	LTW
JTRM	Los Trancos Road	
LTW	Los Trancos Woods	
LJB	Lovejoy Buttes	
LOY	Loyalton	
LUL	Lundy Lake	
M04C	Macdoel	
MGL	Magalia	
KMRM	Mail Ridge	
MLKM	Mammoth Lakes	
MMLB	Mammoth Lakes Knolls	
MLAC	Mammoth, Mammoth Lakes	
MMPM	Mammoth Pass	
MMSM	Mammoth Summit	
MPMC	Manual Prospect Mine,Trona	
LMEM	Manzanita Entrance	
MLC	Manzanita Lake	
LMZM	Manzanita Lake	
MCA	Marble Canyon	
MCCM	Marconi Conference Center, Marshall	
MARC	Maricopa	
MHDL	Marin Headlands	
MAC	Mark West Springs	
NMWM	Mark W Springs	MAC
MIRC	Martinez Indian Reservation	
MPK	Martis Peak	
MV-CL	Marysville	
MV-	Marysville	MV-CL
PMRM	Maxey Ranch	
GMMM	Mayacamas Mountains	
M03C	McCloud	
MFSM	McCloud Flat S	MFS
MFS	McCloud Flat South	
MGNR	McGee Canyon	
HOME	McLaughlin Mine	
MNRC	McLaughlin Mine	
GMCM	McLaughlin Ranch	
PMCM	McMillan Canyon	
BMCM	McPhails Peak	
PKM	Mcpherson Peak, Los Olivos	
MYIG	Me@15rida	
MECC	Mecca Hills	
LMDM	Medicine Lake	
LT7	Menlo Park	MOB
MOB	Menlo Park	
JMPM	Menlo Park	
S05C	Merced	
BMSM	Mercy Hot Springs	
MMIM	Miami Mountain	
MMNB	Middle Mountain	
NMTM	Middletown	
CMPM	Mikes Peak	
MGA	Milagra Ridge	
JMGM	Milagra Ridge	MGA
LMPM	Military Pass	
MILG	Mill City	
MLL	Mill Creek	
NMCNC	Mill Creek, Sonoma County	
T06C	Millerton Lake Dam, Friant	
CMCM	Mills College	
MLNR	Milner Canyon	
MINS	Minaret Summit	
MIN	Mineral	
CB9	Mines Road	MNR
CMRM	Mines Road	MNR
CMNM	Mines Road	
CL2	Mines Road	CMNM
MNR	Mines Road	
MLSC	Mira Loma	
MSJ	Mission San Jose	
CMJM	Mission San Jose	MSJ
HELL	Mitchell Peak, Miramonte	
MMWM	Mi Wuk Village	
MIX	Mix Canyon Road	
NMXM	Mix Canyon Road	MIX
MOD	Modoc Plateau	
GMOM	Moffitt Ranch	
MRD	Mojave River Dam	
MOP	Monarch Peak	
PMPM	Monarch Peak	MOP
PMPB	Monarch Peak	
MCRR	Mono Craters	
MCCR	Mono Craters	
ML1CL	Mono Lake	
ML4	Mono Lake	ML4CL
ML4CL	Mono Lake	
ML2	Mono Lake	ML2CL
ML3CL	Mono Lake	
ML1	Mono Lake	ML1CL
ML2CL	Mono Lake	
ML3	Mono Lake	ML3CL
MONR	Mono Valley	
B040	Montague	
MTB	Montebello Ridge	
HMOM	Monterey	MTR
MTR	Monterey	
MOBB	Monterey Bay OB	
MONP	Monument Peak, Mt. Laguna	
MONP2	Monument Peak TA Vault, Mt. Laguna	
MTC	Morgan Territory	
CMOB	Morgan Territory	
LT17	Morgan Territory	MTC
CMOM	Morgan Territory	MTC
MRVC	Morongo Valley	
ABL	Mount Abel	
BFSC	Mount Baldy Ranger Station	
MBUM	Mount Bullion	
MDA	Mount Davis	
MDC	Mount Diablo	
MHC	Mount Hamilton	
MHR	Mount Hamilton Road	
LHKM	Mount Harkness	
BMHM	Mount Harlan	
BJOM	Mount Johnson	
GMKM	Mount Konoctai	
LAS	Mount Lassen	
CMLM	Mount Lewis	
PMLM	Mount Lospe	
CMMM	Mount Mocho	
OLYC	Mount Olympus	
COSM	Mount Oso	
KMPM	Mount Pierce	
MPI	Mount Pinos, Frazier Park	
NMHM	Mount Saint Helena	
SHC	Mount Saint Helena	
NHSM	Mount Saint Helena South	
SGL	Mount Signal	
NTPM	Mount Tamalpais	
JUMM	Mount Umunhum	
MWC	Mount Wilson	
O02D	Mt. Diablo Meridian	
CMHM	Mt Hamilton Road	MHR
NHMM	Mt Hamilton Road	HMR
CB10	Mt Hamilton Road	MHR
MURC	Murrieta	
GNAM	Navarro Ridge	
ND-CL	Needles	
ND-	Needles	ND-CL
NEE	Needles	
NEE2	Needles Airport, Needles	
NEG	NEGU Pad	
JNAM	New Almaden Mine	
MNHB	New Hogan Dam	
MNHM	New Hogan Reservoir	
NW2	New River	
CNIC	Niles Canyon	
NMC	Nine Mile Canyon	
WNMM	Nine Mile Canyon	NMC
NOP	Nopah Range	
CNCM	Norris Canyon Road	
HLLC	North Hollywood	
NOCG	North-of-Casa	
WOFM	Oak Flat	
OAT	Oat Mountain	
OBB	Obsidian Butte	
MOYM	O'Byrne Ferry	
OBS	Ocean Bottom Seismometer	
HORM	O'Connell Ranch	OCR
OCR	O'Connell Ranch	
OHLN	Ohlone	
OMM	Old Mammoth Mine	
OMMB	Old Mammoth Mine - surface	
OLC	Olema	NOLM
NOLM	Olema	
WORM	Onyx Ranch	
AOHM	Oregon House	
ORCC	Oricopia Mountain	
KOMM	Orleans Mountain	
ORV	Oroville	
OSI	Osito Audit: Castaic Lake Dam, Castaic	
AODM	Outingdale	
ORC	Owens River	
OXMT	Ox Mountain	
HPLM	Pacheco Lake	PCL
HPCM	Pacheco Lake	
PCL	Pacheco Lake	
AN4*	Pacheco Lake	PCL
PACP	Pacheco Peak	
PAM	Palermo	
PSP	Palm Springs	
PAC	Palo Alto--Branner	
PLM	Palomar	
LT18	Palomares Rd	PLC
CPLM	Palomares Road	
PLC	Palomares Road	
PVRC	Palos Verdes	
PVPS	Palos Verdes	
PVR	Palos Verdes	
PGE	Panamint Range	
PANV	Panamint Range	
PRS	Paraiso	
PKD1	Parkfield	
PKF	Parkfield Array	
PPFM	Parkfield Array	PKF
HPHM	Park Hill	PKH
PKH	Park Hill	
PAS	Pasadena	
PASC	Pasadena Art Cn	
PPRM	Paso Robles	
PWTG	Paul Wright Trailer	
O03E	Paynes Creek	
O03D	Paynes Creek	
PTV	Peach Tree Valley	
PPTM	Peach Tree Valley	PTV
PKC	Peckham Road	
AN8*	Peckham Road	PKC
HPRM	Peckham Road	PKC
PRR	Perris	
PEC	Perris	
PSD	Pescadero	
JPC	Peters Creek, San Mateo County	
BPFM	Pfieffer Point	
PIC	Picacho Peak	
KPPM	Pickett Peak	
PCC	Pilarcitos Creek	
PLT	Pilot Knob	
XPFO	Pin@16on Flat	
BPCNC	Pine Canyon	
PNC	Pine Canyon	
BPCM	Pine Canyon	
AN1*	Pine Canyon	PNC
PFR	Pine Flat Road	
GPMM	Pine Mountain	
PEM	Pine Mountain	
BPIM	Pinnacles	
CPIM	Pinole Ridge	
I57US	PINON FLAT INFRASONIC ARRAY REFERENCE POINT	
TPFO	Pinon Flats	
PNMC	Pinto Mountains	
PFO	Pinyon Flats Observatory	
BPPM	Pinyon Peak	
PPK	Piper Mountain	
PIU	Piute Mountains	
PZC	Pizona Creek	
GFTM	Plant 15--Mercuryville	
CPNM	Pleasanton	
JPLM	Pleasant Valley	PEV
PEV	Pleasant Valley	
PLEC	Pleito Hills	
GAFM	Point Arena AFB	
PT2	Point Dume	
CPMM	Point Molate	
NPRM	Point Reyes	
PRC	Point Reyes	
PSUR	Point Sur Hydrophone	
POCCA	Poleta Canyon	
POB	Polly Butte	
POM	Pomona	
PCF	Pomona	
BPRM	Ponciano Ridge	
LPDM	Pondosa	
APRM	Poppy Hill Road	
JPPM	Portola Park	LT3
LT3	Portola State Park	
PPO	Portuguese Canyon 2	
BPOM	Post Ranch	
POTR	Potrero Hills, Fairfield	
CB7	Poverty Ridge	
RDG13	Poverty Ridge 1, Station 3	
JPRM	Presidio of San Francisco	
PRI	Priest	
TSCN	Private Property, Shandon	
TRAM	Private Property, Shandon	
PSRC	Puddingstone Reservoir	
PYR	Pyramid	
QAL	Quail Lake	
QSM	Queen of Sheba Mine	
HQRH	Quien Sabe	QSR
AN13*	Quien Sabe	QSR
QSR	Quien Sabe Ranch	
O05C	Quincy	
KRKM	Rackout Springs	
MRFM	Railroad Flat South	
RAMR	Ramage Ranch	
V04C	Ramage Ranch, Paso Robles	
LCL	Rancho Los Cerritos	
GRNM	Rancho Navarro	
RPV	Rancho Palos Verdes	
ORAM	Rattlesnake Point	
RAY	Raywood Flat	
RMNB	Reason Mountain	
RCH	Reche Mountain	
RCP2	Recreation Park	
RCTC	Rector, Farmersville	
O02C	Red Bluff	
MRDM	Red Cones	
LRDM	Redding Peak	
KRMB	Red Mountain	
KRMM	Red Mountain	
MRCM	Red Rock Canyon	
JRRM	Redwood Retreat	
WRCM	Renegade Can. W	RCWM
RCWM	Renegade Canyon West	
RYS	Reyes Peak	
ARWM	Richard P. Wilkes	
RFSB	Richmond Field	
RSRB	Richmond-San Rafael Bridge	
ARRM	Rickey Ranch	
RMR	Rimrock	
RVM	Rio Vista Mine	
RVR	Riverside	
RSBC	Riverside Borehole	
RVS	Riverside Mountains	
PRCM	Roach Canyon	
ARJM	Robert W. Jensen	
RCCR	Rock Creek Canyon	
MRHM	Rocky Hill	
JRGM	Rodeo Gulch Road	
KRPM	Rodgers	
ROD	Rodman Mountain	
BRMM	Rolling Bench Mark	
RHC	Rose Hills Cemetery, Whittier	
RSE	Rose Pump	
RVCM	Rose Valley Central	
WRVM	Rose V. Central	RVCM
CRHM	Round Hill Res.	
GROM	Round Mountain	
RDM	Round Mountain	
GRMM	Round Mountain	
RMT	Round Mountain	
GRTM	Round Top Mountain	
RUBR	Rubicon Trail	
RGP	Ruby Glebe Property	
CRPM	Russellman Park	
CRPB	Russellman Park	
RUN	Ruthven	
SACC	Sacramento, California	
SBB	Saddle Back Butte	
SBKC	Saddleback Mountain	
SADC	Saddle Peak	
LSHM	Sage Hen Hill	
HSFM	Saint Francis Retreat	
NSHM	Saint Helena Road	
SJH	Saint Joseph Seminary	
JJOM	Saint Joseph's Hill	
SMCB	Saint Mary's College	
SVIN	Saint Vincent's CYO School for Boys, San Rafael	
AN12*	Salinas Radio	SRC
BSRM	Salinas Radio Site	
SRC	Salinas Radio Site	
SDLC	Saltdale	
SLTC	Salton Sea Test Base	
SWSC	Sam W. Stewart, Westmorland	
JSAM	San Andreas	SAC
SAC	San Andreas	
SAO	San Andreas Geological Observatory	
JSLM	San Andreas Lake	
LT9	San Andreas Lake	
PANM	San Antonio Reservoir	
PSAM	San Ardo	
BBNM	San Benito	SBT
SBT	San Benito	
SBVC	San Bernardino Valley	
JSBM	San Bruno Mountain	
SCI	San Clemente Island	
SCI2	San Clemente Island 2	
SNDC	Sand Canyon	
CSAM	Sandia	
SDC	San Diego	
SND	San Diego	
SDRC	San Diego Road Dept, El Cajon	
SFL	San Felipe	
HFEM	San Felipe	SFL
FRCO	San Francisco	
SFM	San Francisco	
SFB	San Francisco	
SFC	San Francisco	
S06C	San Francisco Camp Mather, Mather	
SFR	San Francisco--Rincon	
SJQ	San Joaquin Reservoir	
HBTM	San Juan Bautista	
AN3*	San Juan Grade	HJGM
HJGM	San Juan Grade	
CSLM	San Leandro Hills	
SCKWR	San Luis Creek Check 11 ,Merced County	
SLD	San Luis Dam	
HSLM	San Luis Dam	
SFJWR	San Luis Fatjo Ranch, Merced County	
BSM	San Miguel Island	
BSN	San Nicolas Island	
SNCC	San Nicolas Island	
SNC	San Nicolas Island	
SNS	San Onofre	
ZSP	San Pablo Dam	
CSPM	San Pablo Ridge	
SPH	San Pedro Hill	
CRAM	San Ramon	
SS2	San Sevaine	
SANC	Santa Ana	
SBC	Santa Barbara	
SBI	Santa Barbara Island	
CIW	Santa Catalina Island West	
STCC	Santa Clara	

Code	Station Name	Other
SCL	Santa Clara	
SCCB	Santa Clara County Offices	
SCZ	Santa Cruz	
SCC	Santa Cruz	
BSC	Santa Cruz Island	
SCZ2	Santa Cruz Island 2	
PMGM	Santa Margarita	
SME	Santa Rosa Mine	
SMO	Santa Rosa Mountain	
JSTM	Santa Teresa Hills	
SYP	Santa Ynez Peak	
SYS	San Ysidro	
SGC	Saratoga Golf Course	
SWM	Sawmill	
JSMM	Sawmill Road	
MAGC	SCE Magundon Plant	
SNR	Schaffner Ranch	
SCHCA	Scheelite	
PSRM	Scobie Ranch	
STTC	Scott Ranch	
SNT	Sears Point	
PSEM	See Canyon	
GSGM	Seigler Mountain	
SVD	Seven Oaks Dam	
PSHM	Shandon	
TCHL	Shandon	
SHS	Shasta Dam	
HSPM	Sheep	
SHH	Sheep Hole Mountains	
SWNG	Sheriff Wilson	
MSLM	Sherwin Lakes	
KSPM	Sherwood Peak	
SPM	Ship Mountains	
BSGM	Shirttail Gulch	SHG
SHG	Shirttail Gulch	
WSCM	Short Canyon	
SHOC	Shoshone, Tecopa	
SDW	Sidewinder Mine	
BSLM	Silva Ranch	
CSCM	Silver Creek	SVC
SVC	Silver Creek	
SIL	Silver Peak	
SI2	Simi Peak	
SMMC	Simmler	
GSSM	Skaggs Springs	SKG
SKG	Skaggs Springs	
ASMM	Slate Mountain	
KSMM	Slide Mountain	
ASRM	Slough House Road	
PSMM	Smith Mountain	
SRTC	Snort	
GSNM	Snow Mountain	
GSMM	Socrates Mine	
SOS	Soda Springs	
JSSM	Soda Springs	SOS
SLBC	Solana Beach	
BSMM	Soledad Mission	
BOOC	South Base Booster	
THIS	South End of Cholame Valley, Shandon	
SGV	South Grapevine Mountains	
LSLM	South Lassen	
WSHM	Spangler Hills	
SPG2	Springville 2	
SQK	Squaw Creek	
TIT	Squaw Tit	
LT4	Stanford	SFT
STAN	Stanford	
JSFM	Stanford	SFT
SFT	Stanford Telescope	
JSFB	Stanford Telescope, Santa Clara County	
MSTM	Stent	
STP	Stepladder Mountains	
JSCM	Stevens Creek	SEC
LT1	Stevens Creek	SEC
SEC	Stevens Creek	
OSTM	Stimpson Lane	
LT2	St Joseph	SJH
JSJM	St Joseph	SJH
SMNB	Stockdale Mountain	
PSTM	Stockdale Mountain	
BSCM	Stone Canyon	
SCYB	Stone Canyon	
STC	Stone Canyon Observatory	
SCY	Stone Canyon Reservoir	
PSNM	Stone Corral	
CSVM	Stone Valley	
SDP	Sudden Peak, Lompoc	
SMWM	Sugarloaf Mountain West	
SB4	Sulfur Bank	
CSU1	Sunol Dilatometer	
SSK	Sunset Peak	
SMTC	Superstition Mountain	
SUP	Superstition Mountain	
SUTB	Sutter Butte	
OSUM	Sutter Buttes	
BSBM	Swanson's Bluff	
OTBM	Table Mountain	
TMC	Table Mountain	
TF-CL	Taft	
TF-	Taft	TF-CL
TAHR	Tahoe	
PTAM	Tassajara Creek	
CTAM	Taylor	
NTYM	Taylor	
CTFL	Taylor Farm	
NTMM	Taylor Mountain	
TRC	Taylor Ranch	
PK3	Taylor Ranch	TRC
PTYM	Taylor Ranch	TRC
THC	Tehachapi Microwave	
TJR	Tejon Ranch	
TMB	Temblor Range Southeast	
CTHM	Terry Harris R'ch	
CTLM	Tesla Road	
KTRM	Thompson Ridge	
SATS	Thornton Park	
GTC	Three Chop Ridge	
THRC	Three Sisters	
LTIM	Timbered Crater	
TIN	Tinemaha, Big Pine	
TNK	Tinkers Knob	
TMO	Tin Mountain	
NTBM	Tomales Bay	
TOW	Tower One	
TPRS	Tripped Ranch	
TPO	Tropico Hills	
GTSM	Trough Springs	
JTGM	Trout Gulch Road	
MTUM	Tungsten Hills	
TCC	Turnbull Canyon	
TUQ	Turquoise Mountain, Baker	
TTM	Turtle Mountains	
LTCM	Tuscan Springs	
HTUM	Tustin Road	
TN-CL	Twentynine Palms	
TPC	Twentynine Palms	
TWL	Twin Lakes	
TWN	Twin Peaks	
PTRM	Twissleman Ranch	
UKI	Ukiah	
JUCM	University of California, Santa Cruz	
CMSB	University of California Stadium	
USC	University of Southern California	
VPDC	Valencia Peak Digital	
CVLM	Vallecito	
VOG	Valley Oaks Golf Course, Visalia	
AVRM	Valley Road Site	
GVV	Valley View	
OGOM	Van Goodin Ranch	
VARB	Varian Well	
VPK	Verdi Peak	
VES	Vestal, Richgrove	
CVAL	Veterans Administration Hospital	
VTV	Victorville	
VPD	Villa Park Dam	
VIN	Vineyard	
BVYM	Vineyard	
VCAB	Vineyard Canyon	
PVCM	Vineyard Canyon	
VIT	Vineyard--Telemeter	
VG2	Vista Grande	
WVPM	Volcano Peak E	VPEM
VPEM	Volcano Peak East	
CVPM	Vollmer Peak	
WWPM	Walker Pass	
WKC2	Walker Ridge	
WKC	Walker Ridge	
GWKM	Walker Ridge	
WSP	Warm Springs	
WTT2	Watts, South Gate	
WENL	Wente Vineyards, Livermore	
PWMM	Westland Maintenance Station	
WML	Westmorland	
U05C	Westside ANR, Five Points	
WESC	Westside School	
WERC	Wheeler Ridge	
WH2	Whipple Mountains 2	
WDC	Whiskeytown Dam	
S08C	White Mtn Res Sta-Crooked Creek, Bishop	
WWR	Whitewater	
WLK	Wiest Lake	
WRC	Williams Ranch	
Q03C	Winters	
WIS	Wister	
GWRM	Wonder Ranch	
WDS	Woodside	
LT6	Woodside	WDS
JWSM	Woodside	WDS
WDY	Woody	
PWKM	Work Ranch	WKR
PK2	Work Ranch	WKR
WKR	Work Ranch	
NWRM	Wright Ranch	
OWAM	Wyandotte	OWYM
OWYM	Wyandotte	
YAQ	Yaqui Meadows	
YEG	Yeguas Mountain	
CYBM	Yerba Buena Island	
YBIB	Yerba Buena Island	
MYLM	Yosemite Lake	
YR-CL	Yreka	
YR-	Yreka	YR-CL
YBH	Yreka Blue Horn Mine, Yreka	
P05C	Yuba Gap, Truckee	
YUH	Yuha Desert	
NSPM		SNT
WMD		
NMCM		NMC
NGVM		GVR
JPSM		PSD
HQRM		QSR
NLNM		LOC
JSGM		SGC
NFRM		FTR
Caribbean Sea		
GTBY	Guantanamo Bay	
SDDR	Presa de Sabaneta	
Colorado		
S22A	4UR Ranch, Creede	
N27A	Anderson Farm, Haxtun	
R26A	Arlington	
Q25A	Bedland, Calhan	
O27A	Beecher Island, Eckley	
N21A	Black Mountain, Craig	
PV22	Blue Mesa, Paradox Valley	
BDC	Boulder	
BOU	Boulder	
BO1	Boulder	
T27A	Campo	
PV23	Carpenter Ridge	
N24A	Carr	
T23A	Casias Ranch, Antonito	
CECO	Cedaredge	
R21A	Cimarron	
S21A	Coal Bank Pass, Durango	
CMCO	Colorado Mnmt	
T26A	Comanche National Grassland Park, Kim	
PV21	Cone Mtn., Paradox Valley	
CGC	Craig	
Q22A	Crested Butte, Gunnison	
P19A	Cripple Cowboy Ranch, Baxter Pass	
PV11	David Mesa, Paradox Valley	
P26A	Davis Ranch, Arriba	
P20A	De Beque	
DEN	Denver	
DER	Derby	
S20A	Disappointment Valley, Cahone	
Q24A	Divide	
DR-	Durango	DR-CO
DR-CO	Durango	
DGC	Durango	
R27A	Eads	
P22A	Eagle	
EGC	Eagle	
PV17	East Wray Mesa	
T22A	Edith	
P27A	Ficken Ranch, Kirk	
R25A	Fountain Ranch, Boone	
FK-CO	Franktown	
FK-	Franktown	FK-CO
GACO	Gateway	
GOL	Golden	
GLD	Golden	
GJC	Grand Junction	
SDCO	Great Sand Dunes National Park	
N25A	Grover	
Q23A	Hartsel	
HDQ	Headquarters	
HLR	Highland Ranch	
O26A	Horse Wrangler Ranch, Akron	
S24A	Houchin Ranch, La Veta	
Q26A	Hugo	
ISCO	Idaho Springs	
P23A	Jefferson	
KSCO	Kaye Shedlock's, Cheyenne Wells	
S26A	Kim	
N26A	Koester Ranch, Padroni	
P24A	Kohler Place, Littleton	
O22A	Kremmling	
O23A	Lake Granby, Granby	
Q21A	Lamborn Mesa, Paonia	
S27A	Las Animas	
PV14	Lion Creek, Paradox Valley	
O24A	Longmont	
LSI02	Los Alamos Infrasonic Array Site 2	
HGTCO	Madrid Canyon Road, Trinidad	
MSCO	Mesa State College	
MVCO	Mesa Verde	
R23A	Moffat	
MRC	Montrose	
PV19	Morning Glory Mine	
P21A	Newcastle	
S23A	Nye Farm, Monte Vista	
PV16	Nyswonger Mesa	
OMCO	Orchard Mesa	
O21A	Pagoda	
PGS	Pagosa Springs	
PV15	Paradox Valley	
PV06	Paradox Valley	
PV07	Paradox Valley	
PV03	Paradox Valley	
PV02	Paradox Valley	
PV08	Paradox Valley	
PV04	Paradox Valley	
PV01	Paradox Valley	
PV05	Paradox Valley	
PV09	Paradox Valley	
PV10	Paradox Valley	
PMC	Poorman Mine	
PV13	Radium Mtn., Paradox Valley	
RGC	Rangely	
N23A	Red Feather Lakes	
R20A	Redvale	
Q20A	Ridgley Place, Grand Junction	
RW2	Ridgway	
RW6	Ridgway	
RW4	Ridgway	
RW5	Ridgway	
RW3	Ridgway	
RW1	Ridgway	
RBC	Rio Blanco	
S25A	Robets Cordova Ranch, Walsenberg	
R22A	Saguache, Gunnison	
R24A	Sanders Place, Florence	
T24B	San Luis	
PV12	Saucer Basin, Paradox Valley	
PV18	Skein Mesa, Paradox Valley	
SMCO	Snowmass	
SMC	Somerset	
SIG	South Ingalls	
N20A	Spence Gulch, Sunbeam	
MHTCO	State Highway 12, Trinidad	
T24A	Torres, Weston	
T25A	Trinidad	
TDC	Trinidad (USA)	
TJC	Trinidad (USA)	
T28A	Walsh	
WTC	Waterton	
N22A	Wattenberg Ranch, Walden	
PV20	West Nyswonger Mesa	
O20A	White River City	
O25A	Wiggins	
P25A	Willow Gulch Bison Ranch, Deer Trail	
Connecticut		
APT	Avery Point	
BPT	Bridgeport	
BCT	Brookfield	
BRYW	Bryant College	
CPL	Chaplin	
ECT	Ellsworth	
M63A	Gales Ferry	
HDM	Haddam	
M62A	Hamden	
HAR	Hartford	
KSCT	Kent School, Kent	
LSCT	Lakeside	
MD2	Moodus	
MD4	Moodus	
MD5	Moodus	
MD3	Moodus	
MD1	Moodus	
NHC	New Haven	
NSC	North Stonington	
L62A	Suffield	
TMT	Talcott Mountain	
UCCT	U. Connecticut	
UCT	University of Connecticut	
WSPT	Westport, CT	
YLE	Yale	
Delaware		
BVD	Bellevue State Park	
BBD	Blackbird State Forest	
BWD	Brandywine Creek State Park	
DEMA	Delaware Emergency Management Agency	
GTD	Georgetown	
P60A	Greenville	
GWDE	Greenwood	
Q61A	Milford	
NED	Newark	
SCOM	Sussex County Emergency Operations Center	
District of Columbia		
BED	Bald Eagle	
DTM	Carnegie Institution of Washington	
GEO	Georgetown	
PPHYL	Hylton High School	
WAS	Washington	
NRL	Washington--Naval Research Laboratory	
Florida		
058A	Arcadia	
059Z	Ave Maria	
BE-FL	Belleview	
BE-	Belleview	BE-FL
658A	Bunnell	
553A	Crawfordville	
450A	Crestview	
DWPF	Disney Wilderness Preserve, Florida	
EVE	Everglades	
GAI	Gainesville	
456A	Hilliard	
655A	Horseshoe Beach	
060A	Indiantown	
657A	Interlachen	
JAC	Jacksonville	
859A	Kempfer Cattle CO., St. Cloud	
556A	Lake Butler	
758A	Lake Helen	
552A	Lynn Haven	
062Z	Marathon	
452A	Marianna	
555A	McAlpin	
MIA	Miami	
059A	Moore Haven	
061Z	Ochoppi	
959A	Okeechobee	
557A	Orange Park	
OR-	Orlando	OR-FL
OR-FL	Orlando	
757A	Oxford	
449A	Pace	
PEN	Pensacola	
554A	Perry	
RIC	Richmond	
858A	St. Cloud	
451A	Vernon	
958A	Wauchula	
060Z	West Palm Beach	
WFF	Whiting Field	
656A	Willston	
957A	Wimauma	
457A	Yulee	
857A	Zephyrhills	
Georgia		
254A	Abbeville	
AMG	Americus	
253A	Americus	
ATL	Atlanta	
356A	Blackshear	
352A	Blakely	
Z55A	Blythe	
BBG	Brasstown Bald	
X51A	Calhoun	
353A	Camilla	
CDG	Carters Dam	
CMGA	Chestnut Mountain	
IVAG	Clark Hill Reservoir	
BEVG	Clark Hill Reservoir	
CH5	Clark Hill Reservoir	
CH6	Clark Hill Reservoir	
LDVG	Clark Hill Reservoir	
X52A	Dahlonega	
DALG	Dalton	
ETG	Eatonton	
X53A	Estanollee	
153A	Fort Valley	
Z51A	Franklin	
256A	Glennville	
GOGA	Godfrey	
GMG	Grassy Mountain	
GBG	Greensboro	
255A	Hazlehurst	
155A	Kite	
LA-	Lafayette	LA-GA
LA-GA	Lafayette	
Y52A	Lilburn	
LKGA	Lookout Mountain	
252A	Lumpkin	
Y53A	Monroe	
Z53A	Monticello	
154A	Montrose	
355A	Pearson	
454A	Quitman	
RCG	Rock City	
REG	Rock Eagle	
Y51A	Rockmart	
TVGG	Rocky Mountain Net	
RMG	Rome (USA)	
257A	Skidaway Island,	

	Savannah	
Z54A	Sparta	
455A	Stateville	
156A	Sylvania	
TIGA	Tifton	
Y54A	Tignall	
357A	Townsend	
WDG	Wallace Dam	
152A	Waverly Hall	
453A	Whigham	
Z52A	Williamson	
Hawaii		
AHA	Ahua	
AIN	Ainahou	
BAH	Barrette	
BYL	Byron's Ledge	
CPH	Captain Cook	
CPK	Cone Peak	
DAH	Dandelion	
DES	Desert	
DHH	Diamond Head	
ESR	Escape Road	
FEF	Fern Forest	
HLK	Haleakala	
HKL	Haleakala	
HATHI	Halema'uma'u Trail	
HPU	Hale Pohaku	
HBH	HawaiianBeaches	
HVO	Hawaiian Volcano	UWE
I59US	HAWAII INFRASONIC ARRAY REFERENCE POINT	
HIG	Hawaii Institute of Geophysics	
HW-IS	Hawaii Isl. Ar.	
HW-	Hawaii Isl. Ar.	HW-IS
HPAH	Hawaii Preparatory Academy	
HUL	Heiheiahulu	
HULD	Heiheiahulu Digital	
HLP	Hilina Pali	
HIL	Hilo	
HON	Honolulu	
HNL	Honolulu	
HPO	Honuapo	
HTC	Hot Caves	
HUH	Hualalai	
JCUZ	Jacuzzi	
KUH	Kaapuna	
KAE	Kaena	
KPH	Kaena Point	
KHLU	Kahalu'u	
KHU	Kahuku	
KHLH	Kahului Airport	
KKH	Kailua Kona	
KLCH	Kalalua Cone	
KPA	Kalaupapa	
KML	Kamuela	
KANH	Kanahau	
KIH	Kanekii	
KNHH	Kane Nui o Hamo	
KFH	Kaoiki Faults	
KLH	Kapapala Ranch	
KPO	Kapoho	
KLK	Kealakekua	
KEA	Kealakomo	
KKO	Keanaka@18ko'i	
KKU	Keanakolu	
KEKH	Kekaha	
KIP	Kipapa	
KNH	Kipuka Nene	
KOH	Kohala	
KNW	Konawaena	
LPH	Laupahoehoe	
LLAH	Lualailua	
M12	M12	
MHA	Mahukona	
MKA	Makaopuhi	
MAUI	Maui	
MKH	Mauna Kea	
MLH	Mauna Loa	
MLX	Mauna Loa 2	
MLOA	Mauna Loa Observatory	
MOK	Mokapu	
MVH	Mountain View	
NAA	Naalehu	
NGH	National Guard	
NBH	North Bay	
NPOC	North of Pu'u O'o Crater	
NPH	North Pit	
OA-IS	Oahu Island	
OA-	Oahu Island	OA-IS
OBL	Observatory Ledge	
OVEH	Oceanview Est	
OKAH	Ooka	
OPA	Opana	
OUT	Outlet	
PAH	Pahoa	
PFH	Pahoa Fire House	
PUH	Pauahi	
POHA	Pohakuloa	
POH	Pohoiki	
PWH	Poliokeawe Pali	
PUP	Pupakea	
PHO	Puu Honuaula	
PHH	Puu Huluhulu	
PKL	Puu Kaliu	
KMH	Puu Kamoamoa	
POK	Puuokali	
PPL	Puu Pili	
PLL	Puu Ulaula	
RSD	Rainshed	
RCO	Red Cone	
RIM	Rim	
SDHHI	Sand Hill	
SPT	South Point	
SWH	Southwest Rift	
STCH	Steam Cracks	
SBLHI	Steaming Bluff	
TRH	Trail	
UWB	Uwe@18kahuna Bluff	
UWE	Uwekahuna	
WHA	Wahaula	
WKH	Waikii	
WMR	Waimanalo Ridge	
WLG	Waldron Ledge	
WOB	Weather Observatory	
WPH	West Pit	
WRMHI	West Rim	
WHI	Whitney	
WIH	Wilkes Camp	
WOH	Wood Valley	
Idaho		
K15A	Arbon	
ARNI	Argonne North	
I12A	Atlanta	
AHID	Auburn Hatchery	
BCYI	Bear Canyon	
BEI	Bear River Range	
E12A	Beaver Dam Saddle, Pierce	
J10A	Berg Farm, Melba	
BHI	Bertha Hill	
BBI	Big Bend	
G12A	Big Creek, Yellow Pine	
GBI	Big Grassy Butte	
LRI	Big Lost River	
YPBB	Black Butte	
J15A	Blackfoot	
E11A	Bogner Ranch, Nez Perce	
BSE	Boise	
J16A	Bone	
BDID	Brownlee Dam	
BUI	Burke	
MFID	Camas Ranch	
J14A	Carey	
L11A	Cat Creek Ranch, Riddle	
CBTI	Cedar Butte	
CIB	Cedar Butte	
CMI	Centennial Mountain	
H13A	Challis	
CL-	Challis	CL-ID
CL-ID	Challis	
CRBI	Circular Butte	
G13A	Cobalt	
J13A	Cove Ranch, Picabo	
CHOI	Coyote Hollow	
COMI	Craters of Moon	
CPI	Crown Point	
CNCI	Crows Nest Canyon	
DEI	Dent	
H12A	Diamond D Ranch, Stanley	
H11A	Donnelly	
L13A	Double Diamond Ranch, Oakley	
DCID1	Drake Creek	
K12A	Draper Farm, Castleford	
DCI	Dry Creek	
DPI	Dunn Peak	
ECR	Eagle Creek	
EMI	Eightmile Canyon	
EBI	Elk Butte	
F12A	Elk City	
ERI	Eureka Ridge	
L16A	Fish Haven	
GMI	Garnes Mountain	
GHI	Gilbert Hill	
GRAI	Grandview Point	
F11A	Grangeville	
GRCI	Grant Creek	
GRRI	Grays Lake	
GTRI	Great Rift	
HL-ID	Hailey	
HL-	Hailey	HL-ID
HL2ID	Hailey	
HL2	Hailey	HL2ID
HLID	Hailey	
A11A	Hall Mountain, Copeland	
HID	Hamer Butte	
HHI	Harmony Heights	
YPHR	Hebgen Ridge	
HHAI	Hells Half Acre	
YHB	Horse Butte	
L12A	House Creek Ranch, Rogerson	
HPI	Howe Peak	
HWSI	Howe Scarp	
IDA	Idaho Array	
ID1	Idaho Array 1	
ID2	Idaho Array 2	
ID3	Idaho Array 3	
ID4	Idaho Array 4	
ID5	Idaho Array 5	
IRCI	INEL Research	
ICI	Italian Canyon	
JECI	Jenson Cabin	
JSM	Jim Sage Mountain	
K14A	Jones Ranch, Declo	
L10A	Juniper Basin Ranch, Riddle	
JGI	Juniper Gulch	
KGI	Kellogg	
KCI	Kelly Canyon	
KBI	Kettle Butte	
D11A	Klaveano Farm, Fernwood	
H14A	Leadore	
LJI	Lemhi Junction	
LGM	Little Green Mountain	
LLRI	Little Lost River	
LVRI	Lost Valley Reservoir	
I14A	Mackay	
MCPI	Mackay Peak	
L15A	Malad City	
MLI	Malad Range	
L14A	Malta	
MAS	Mason Butte	
MBI	Menan Buttes	
YPMF	Mesa Falls	
I15A	Monteview	
MCID	Moose Creek	
MO-	Mountain Home	MO-ID
MO-ID	Mountain Home	
MUDI	Mud Lake	
MUL	Mullan	
NWR	Narrow River	
I16A	Newdale	
NPRI	New Reactor	
H10A	Noah's Angus Ranch, Cambridge	
NTI	Nordman	
NPI	North Pocatello Valley	
K11A	Parker Ranch, Bruneau	
PZCI	Patelzick Creek	
I10A	Payette	
PLID	Pearl Lake	
PINI	Pine Creek	
I11A	Placerville	
PTI	Pocatello Creek	
PCID	Pole Creek	
PQ-ID	Preston	
D12A	Red Ives Forest Station, Avery	
RRI2	Red Ridge	
RRI	Red Ridge	
REX	Rexburg	
RMI	Round Mountain	
SJID	Saint Joe	
B11A	Sandpoint	
SPVI	Shoe Peg Valley	
SMBI	Sixmile Butte	
SBID	Snowbank Mountain	
K16A	Soda Springs	
SPCI	Split Crater	
STID	Stanley	
STI	Star Valley	
J12A	Stokes Ranch, Hill City	
K13A	Stover Farm, Hazelton	
SURI	Summit Reservoir	
TMI	Taylor Mountain	
TCSI	Telchick Spring	
C11A	Tepee Creek (NFS), Magee	
TID	Three Point Mountain	
TYI	Trinity Mountain	
YPTS	Trude Siding	
WAL	Wallace	
G11A	Walters Elk Ranch, Riggins	
WBI	Whiskey Butte	
I13A	Wildhorse Creek, Mackay	
WICI	Willow Creek	
WPI	Wilson Peak	
Illinois		
P41A	Barry, Barry	
O42A	Bath	
BPIL	Belle Prairie	
BVIL	Belleville	
S44A	Carbondale	
S45A	Carrier Mills	
CIRL	Cave In Rock	
CGI	Chicago	
CHK	Chicago	
CHI	Chicago-Loyola	
CSIL	Creal Springs	
DAIL	Da Vinci Academy	
DEK	Dekalb	
ELC	Elco	
L43A	Garden Prairie	
Q42A	Golden Eagle	
P45A	Graceland, Paris	
N41A	Harden Midland Farm, Stronghurst	
HDIL	Hopedale	
JCMO	Jefferson College	
L44A	Lake County Forest Preserve, Grayslake	
O44A	Mansfield	
MCIL	McClure	
Q44A	Meyer Farm, Vandalia	
M44A	Midewin, Midewin Nat. Tallgrass Prairie	
M41A	Milan	
Q43A	New Douglas	
NHIL	New Haven	
L42A	Oliver, Polo	
O41A	Passleys Farm, La Prairie	
N44A	Piper City	
PW-IL	Pontiac	
PW-	Pontiac	PW-IL
O45A	Potomac	
R43A	Red Bud	
GOIL	Rosebud	
SMV	Samsville	
P44A	Sand Creek, Windsor	
M42A	Sheffield	
P43A	Skaggs, Pawnee	
R45A	Skylar, Fairfield	
EDIL	So. Illinois U.	
SIUC	Southern Illinois University	
SCMO	St. Charles CC	
N43A	Stutzman Family Farm, Minonk	
O43A	Sugar Creek Farm, Atlanta	
WVIL	Wabash College	
M43A	Waltham Township, Utica	
R44A	Waltonville	
Q45A	Warren Harvey, Newton	
WQ-IL	Watseka	
WCIL	Waubonsee CC	
WSIL	West Salem	
P42A	Winchester	
N42A	Yates City	
Indiana		
Q49A	Aurora	
Q47A	Bedord North Lawrence Stars, Bedford	
BLO	Bloomington	
M45A	Boilermakers Shaker, Crown Point	
Q46A	CEJHS Indians, Carlisle	
M47A	Cromwell	
N48A	Decatur	
O48A	Farmland	
R46A	Gibon Southern Titans, Haubstabt	
IN1	Indiana Array	
IN4	Indiana Array	
IN3	Indiana Array	
IN2	Indiana Array	
ISU	Indiana State University	
N45A	Kentland	
SFIN	Lafayette	
P47A	Martinsville	
P48A	Milroy	
N46A	Monticello	
R48A	Northridge Ranch, Floyd Knobs	
Q48A	North Vernon	
M46A	Old House Field, Plymouth	
P46A	Rosedale	
O47A	Sheridan	
SHIN	Springhill	
SPIN	Swan Pond Ditch	
THI	Terre Haute	
USIN	University of Southern Indiana	
N47A	Urbana	
WDIN	Wadesville	
R47A	Wooly Knot Farm, English	
WCI	Wyandotte Cave	
Iowa		
L40A	Anamosa	
K37A	Belmond	
L35A	Bielow Farm, Ricketts	
BY-IO	Bloomfield	
K40A	Colesburg	
J39A	Decorah	
N39A	Derby Farms, Drakesville	
DMI	Des Moines	
DBQ	Dubuque	
M36A	Felix, Anita	
J34A	George	
K36A	Gilmore City	
L36A	Harm Buss Farm, Glidden	
N38A	Joes South Fork Station, Corydon	
N37A	Lee Faris, Mount Ayr	
K34A	Le Mars	
N40A	Mertquake, Salem	
J35A	Milford	
N36A	Muff Farm, Clarinda	
M35A	Neola	
L38A	Oak Wood Farm, Albion	
K39A	Oelwein	
K38A	Parkersburg	
L37A	Phoenix Point, Boone	
M38A	Pleasantville	
M40A	Post Highland Seismo, Ainsworth	
L41A	Preston	
J37A	Redenius Farm, Forest	
J36A	Seneca 1, Swea City	
SCIA	State Center	
K35A	Storm Lake	
N35A	Tabor	
M37A	Trindle Farm, Earlham	
VO-IO	Vinton	
VO-	Vinton	VO-IO
L39A	Vinton	
M39A	Webster	
J38A	Wedel Dairy, Riceville	
Kansas		
Q36A	Arnold C. Orvedal, Lecompton	
P29A	Atwood	
BEK	Belvue	
T36A	Boggs Farm, Caney	
R31A	Burdett	
CBKS	Cedar Bluff	
Q34A	Chapman	
T37A	Cheneyville 1850, Columbus	
CNK	Concordia	
Q33A	Connelly Farm, Tescott	
R30A	Dighton	
P35A	Duane Minner, Soldier	
EDK	El Dorado	
Q31A	Ellis	
EM-KA	Emporia	
EMK	Emporia	
EM-	Emporia	EM-KA
R35A	Emporia Municipal Airport, Emporia	
S37A	Fort Scott	
P36A	Good Intent, Atchison	
R36A	Gordon, Harris	
HWK	Hiawatha	
T32A	Huddler Ranch, Lake City	
T29A	Hugoton	
P32A	Huiting Farm, Downs	
R34A	Isabella, Hillsboro	
KSU1	Kansas State University--Konza Prairie	
S33A	Kaszmaul Farm, Murdock	
S36A	Lake Cedric, Chanute	
LAK	Lawrence	
LAW	Lawrence	
R32A	Long Quarter, Great Bend	
MHK	Manhattan	
MHT	Manhattan	
S28A	Manter	
R29A	Marienthal	
T34A	McClaskey Farms, Geuda Springs	
Q32A	Meitler Ranch, Lucas	
Q35A	Mercer Eighty, Eskridge	
MLK	Milford Reservoir	
S30A	Montezuma	
S31A	Mullinville	
S32A	Newby Ranch, Pratt	
NNK	Norton	
Q29A	Oakley	
OBK	Oberlin	
R33A	Olander Ranch, Little River	
S35A	Otter Creek Ranch, Eureka	
T33A	Patterson Ranch, Waldron	
T30A	Plains	
Q30A	Quinter	
T31A	Randall Ranch, Ashland	
P28A	Saint Francis	
SNK	Salina	
P30A	Selden	
Q28A	Sharon Springs	
P31A	Stockton	
R37A	Teagarden Farms, La Cygne	
R28A	Tribune	
TCK	Tuttle Creek Reservoir	
S29A	Ulysses	
P34A	Walnut Farm, Randolph	
S48A	Wiedeman Farm, Cecilia	
P33A	Williams Farm, Concordia	
S34A	Willow Spring Farm, Andover	
Kentucky		
S51A	Beattyville	
BETH	Bethel	
BGKY	Bowling Green	
T48A	Bowling Green	
BHKY	Bowman Hall	
R52A	Catlettsburg	
CRU	Crutchfield	
S46A	Don Dixon Farm, Corydon	
DY-KY	Dry Ridge	
DY-	Dry Ridge	DY-KY
T49A	Edmonton	

Code	Station Name	Other
FLKY	Flemingsburg	
SLKY	Flemingsburg	FLKY
FDKY	Freedom	
FMKY	Fulgham	
T51A	Gray	
HAKY	Hadley Quad	
T52A	Hallie	
S47A	Hartford	
HICK	Hickman	
R51A	Hillsboro	
LLKY	Land-Between-the-Lakes	
LEK	Lexington	
LGKY	Lock 6	L6KY
L6KY	Lock 6	
LOKY	Lockhart	
MOKY	Morganfield	
T50A	Nancy	
T45A	Paducah	
PAKY	Paducah	
R50A	Paris	
PKKY	Potato Knob	
T46A	Princeton	
REKY	Reed	
S50A	Richmond	
ROKY	Rotten Point	
RS-KY	Russell Springs	
RS-	Russell Springs	RS-KY
SMKY	Sacramento	
S52A	Salyersville	
T47A	Sharon Grove	
R49A	Shelbyville	
SOKY	Sonora	
S49A	Springfield	
SSKY	Summer Shade	
WCK	Wilson Creek	
Kodiak Island		
OHAK	Old Harbor	
Louisiana		
445A	Amite	
140A	Cam and Jess, Hughton	
645A	Chauvin	
443A	Delano Plantation, Melville	
441A	DeRidder	
545A	Edgard	
342A	Flagon Creek Properties, Pineville	
242A	Grayson	
240A	Hunter Patterson, Mansfield	
JE-LA	Jena	
JE-	Jena (USA)	JE-LA
341A	Kurthwood	
541A	Lake Charles	
LV-LA	Liddieville	
LV-	Liddieville	LV-LA
442A	Mamou	
142A	Monroe	
542A	Morse	
241A	Mo Tay, Goldonna	
NOL	New Orleans	
141A	Papa Simpson, Farm, Arcadia	
LSU5	Parcperdue Array	
LSU2	Parcperdue Array	
LSU1	Parcperdue Array	
LSU3	Parcperdue Array	
LSU4	Parcperdue Array	
444A	Pine Grove	
646A	Port Sulphur	
546A	Slidell	
143A	Socs Landing, Pioneer	
543A	St. Martinville	
343A	Vidalia	
243A	Waterproof	
544A	White Castle	
Maine		
AGM	Allagash	
D62A	Allapoint, Allagash	
AG-	Augusta	AG-ME
AG-ME	Augusta	
BG-	Bangor	BG-ME
BG-ME	Bangor	
I64A	Boothbay	
E64A	Bridgewater	
BPM	Bucksport	
CBM	Caribou	
E62A	Clayton Lake	
PQ0	Cooper Hill	
D2A	Dickey	
D6A	Dickey	
D5A	Dickey	
D1A	Dickey	
D3A	Dickey	
D4A	Dickey	
H65A	Eastbrook	
EMMW	East Machias	
EMM	East Machias	
EMMT	East Machias	
PQ1	East Ridge	
HKM	Hinckley	
HN-	Houlton	HN-ME
HNME	Houlton	
HN-ME	Houlton	
JKM	Jackman	
G63A	Kingsbury	
G64A	Maxfield	
MIM	Milo	
F63A	Nahmakanta, Browneville	
H63A	New Sharon	
ORNO	Orono	
I63A	Otisfield	
E63A	Oxbow	
PKME	Peaks-Kenny Pk	
F62A	Pittston Farm, Pittston Academy Grant	
POR	Portland	
PQI	Presque Isle	
G65A	Princeton	
F64A	Sherman	
D63A	Stockholm	
H64A	Troy	
TRM	Turner	
WVL	Waterville	
WTR	Waterville	
G62A	West of Eustis	
H66A	Whiting	
Maryland		
BALH	Baltimore	
NHB	Bethesda--National Naval Medical Center	
CLH	Cheltenham	
ER304	Early Rise 304	
ECM	Ellicott City	
GS-MD	Grantsville	
GS-	Grantsville	GS-MD
Q60A	Greensboro	
Q59A	Harwood	
P59A	Jarrettsville	
R60A	Leonardtown, MD	
NLM	Maryland--Naval Ordinance Lab	
P58A	Pank, Wackersville	
SDMD	Soldier's Delight Natural Environment Area	
VIL	Villa Mercy	
WSC	Washington Science Center	
R61A	Willards	
WOO	Woodstock	
Massachusetts		
HRV	Adam Dziewonski Observatory (Oak Ridge)	
QUA2	Belchertown	
BCX	Boston College	
M65A	Busby, Falmouth	
CAM	Cambridge	
L65A	Cape Cod National Seashore	
DUX	Duxbury	
DXB	Duxbury	
FLR	Fall River	
GLO	Gloucester	
LNX	Lenox	
L64A	Middleborough	
NMA	Nantucket	
M66A	Nantucket	
L61B	Northampton	
QUA	Quabbin	
K62A	Royalston	
COD	South Dennis	
WGMA	Westboro	
WFM	Westford	
WES	Weston	
K61A	Williamstown	
WLL	Williamstown	
WOR	Worcester	
Michigan		
ACM	Allegan	
AAM	Ann Arbor	
H45A	Beulah	
F44A	Big Bay de Noc Black Bears, Cooks	
J48A	Bridge Port	
K50A	Casco	
MTPM	Central Michigan University	
E42A	Champion	
D41A	Chassel	
K49A	Clarkson	
F45A	CMU Biological Station, Beaver Island	
K46A	Dorr	
LNSM	East Lansing	
ED-	Edgewood	ED-MI
ED-MI	Edgewood	
L46A	Eue Claire	
H46A	Fife Lake	
F43A	Flat Rock, Escanaba	
I45A	Fountain	
I47A	Gladwin	
E44A	Grand Marais Airport, Grand Marais	
GLMI	Grayling	
H48A	Harrisville	
G47A	Hillman	
J46A	Howard City	
C40A	Isle Royale National Park	
KZM	Kalamazoo	
E41A	Kenton	
E43A	Lone Tree Farm, Eben Junction	
F46A	Macinaw City Comets, Mackinaw City	
J49A	Marlette	
L49A	Milan	
H47A	Mio	
J45A	Montague	
L48A	N Adams	
K48A	Perry	
G46A	Petoskey	
PF-	Pickford	PF-MI
PF-MI	Pickford	
I49A	Point Hope	
I46A	Reed City	
E46A	Sault Ste Marie	
I48A	Sherman Twp	
L47A	Sherwood	
SUG	Sugar Island	
J47A	Sunmer	
G45A	Suttons Bay	
TT-MI	Trout Lake	
TT-	Trout Lake	TT-MI
AAMC	University of Michigan	
K47A	Vermontville	
E40A	Wakefield	
G43A	Wallace	
WPM	White Pine	
E45A	Wooded Hills, Hulbert	
Minnesota		
F33A	5 Mile Ranch, Herman	
B34A	Aery, Baudette	
AGMN	Agassiz National Wildlife Refuge	
F34A	Alexandria	
D33A	AnnSam, Waubun	
B32A	Ashes, Strandquist	
BEM	Bemidji	
G34A	Benson	
B35A	Bob, Littlefork	
CM1	Central Minnesota Array	
CM2	Central Minnesota Array	
CM4	Central Minnesota Array	
CM5	Central Minnesota Array	
CM6	Central Minnesota Array	
CM3	Central Minnesota Array	
D37A	Cotton	
I35A	Creekview Farms, Bingham Lake	
C32A	Crookston	
H37A	Dierke Farm, Cannon Falls	
DUL	Duluth	
EYMN	Ely	
C37A	Embarrass	
I36A	Fitzsimmons Farm, Good Thunder	
GY-MN	Gaylord	
GY-	Gaylord	GY-MN
D36A	Goodland	
C39A	Grand Marais	
GP-	Grand Rapids	GP-MN
GP-MN	Grand Rapids	
I34A	Hadley	
HT-	Hastings	HT-MN
HT-MN	Hastings	
I39A	Houston	
JA-	Jasper	JA-MN
JA-MN	Jasper	
H36A	Jessenland, Henderson	
C35A	Jirik Farms, Max	
JO-MN	Jordan	
JO-	Jordan	JO-MN
I37A	Lemond, Waseca	
A31A	Linda, St. Vincent	
SPMN	Marine on St. Croix	
E36A	McGregor	
F36A	Milaca	
MNN	Minneapolis	
MFM	Minneapolis	
MNM	Minneapolis	
NB-MN	North Branch	
NB-	North Branch	NB-MN
G33A	Ortonville	
D34A	Park Rapids	
E35A	Pequot Lakes	
C36A	Pine Crest Farm, Angora	
PP-	Pipestone	PP-MN
PP-MN	Pipestone	
D35A	Remer	
C34A	RKJ Ranch, Bemidji	
B33A	Robert and Kassanda Mosher, Grygla	
A32A	Rocking H Ranch, Lancaster	
C38A	Sawbill Land. Superior Nat. Forest USFS	
I38A	Scanlan Farm, Eyota	
SE-MN	Sleepy Eye	
SE-	Sleepy Eye	SE-MN
H34A	Spellman Lake, Hanley Falls	
G36A	St. Michael	
H35A	Sunnyside Ranch, Fairfax	
F35A	Swanville	
TY-MN	Tracy	
TY-	Tracy	TY-MN
C33A	Trail	
E34A	Wadena	
A33A	Warroad	
G35A	Watkins	
E33A	Westby DABS, Erhard	
WD-	Windom	WD-MN
WD-MN	Windom	
E37A	Wrenshall	
WF-	Wykoff	WF-MN
WF-MN	Wykoff	
Mississippi		
144A	Alexander Place, Bentonia	
244A	Avery, Jackson	
346A	Big Creek Wildlife, Hattiesburg	
X46A	Booneville	
X44A	Crenshaw	
GH-MS	Greenville	
Y46A	Houston	
145A	Houston Renfrow, Canton	
246A	Jackson Lee, Bay Springs	
LL-MS	Laurel	
LL-	Laurel	LL-MS
245A	Little AP, Star	
Z46A	Louisville	
LD2MS	Lucedale	
LD-MS	Lucedale	
LD3MS	Lucedale	
LD-	Lucedale	LD-MS
447A	Lucedale	
LU-MS	Lumberton	
Y43A	Makayla and Karen, Gunnison	
MB-MS	McComb	
MB-	McComb	MB-MS
OXF	Oxford	
Z44A	Pea Ridge, Belzoni	
PC-	Picayune	PC-MS
PC-MS	Picayune	
PGM	Pleasant Grove	
446A	Poplarville	
PU-	Purvis	PU-MS
PU-MS	Purvis	
247A	Quitman	
RI-MS	Richton	
347A	Saraland	
Y44A	Strider, Charleston	
TQ-MS	Tatum Dome	
345A	Thompson Farm, Foxworth	
X45A	UM Field Station, Abbeville	
146A	Union	
VBMS	Vicksburg	
344A	Westbrook Farm, Meadville	
Z45A	Winona	
Y45A	Yeager Farm, Coffeeville	
Missouri		
T44A	Benton	
BRNM	Bernie	
BRM	Bernie	
BRR	Berryman	
BETM	Bethany	
O36A	Bolckow	
S39A	Bolivar	
BRGM	Braggadocio	
S42A	Caledonia	
CGM	Cape Girardeau	
CCM	Cathedral Cave	
CATM	Catron	
CHNM	Channel	
CHRM	Charleston	
COKM	Charter Oak	
R39A	Chumby, Stover	
T39A	Clever	
Q38A	Cooks Store, Concordia	
CWPT	Cottonwood Point	
CCMO	Creve Coeur	
CBD	Cypress Bend	
P38A	Dawn	
DMV	Demmitville	
T38A	Diamond	
DWDM	Dogwood	
DWM	Dogwood	
DON	Dongola	
EPRM	East Prairie	
ECD	Elk Chute Ditch	
EN-MO	Ellsinore	
EN-	Ellsinore	EN-MO
STIL	E St Louis HE Ctr	
R38A	Fenwick Farm, Montrose	
FRM	Flat River	
FLO	Florissant	
FVM	French Village	
S43A	Fulton Ridge, Patton	
O38A	Galt	
CBMO	Girardeau Bridge	
GLST	Glass	
GNAR	Gosnell	
GSAR	Gosnell High Sch.	
GRV	Greenville	
T43A	Greenville	
GUAMO	Guam	
HAWT	Hathaway	
HATI	Hayti	
HENM	Henderson Mound	
S41A	Jillco Farms, Salem	
KC-	Kansas City	KC-MO
KC-MO	Kansas City	
KEWM	Kewanee	
O39A	Kirksville	
O40A	La Belle	
P37A	Lathrop	
Q40A	Laux Farm, Auxvasse	
S40A	Lebanon	
LPAR	Lepanto	
LDMO	Linda	
LST	Lone Star	
Q37A	Longview Farm, Lees Summit	
R42A	Luebbering	
R40A	Maddies Station, St. Elizabeth	
MLDM	Malden	
MLD	Malden	
T40A	Mansfield	
MARMO	Marston	
MVMO	Maryville College	
MATM	Matthews	
MGMO	Mountain Grove	
T41A	Mountain View	
NMM	New Madrid	
NMD	New Madrid	
NMMO	New Madrid	
NMEM	New Madrid Sch	
NRMS	Noranda	
P40A	Paris	
PARMO	Parma	
MMM	Pea Ridge Mine	
PEBM	Pemiscott Bayou	
PENMO	Penman	
PPLM	Point Pleasant	
PBMO	Poplar Bluff	
POBM	Portage Bay	
PGVM	Portageville	
PTG	Portageville	
U44A	Portageville	
PVMO	Portageville	
RSCM	Risco	
RELT	Roellen	
ROL	Rolla	
RMB	Rombauer	
R41A	Rosebud	
SJMO	Saint John's Bayou	
SLM	Saint Louis	
P39B	Salisbury	
P39A	Salisbury	
S38A	Stockton	
TOPM	Tallapoosa	
TPMO	Tallapoosa	
Q41A	Truxton	
TYS	Tyson Valley	
T42A	Van Buren	
WADM	Wardell	
WALK	Watson Lake	
Q39A	Willow Grove Farm, Nelson	
O37A	Wolven Farm, McFall	
Montana		
F21A	Absaloka Mine, Hardin	
ALMT	Alberton, Montana	
G24A	Alzada	
AMM	Anaconda	
AN-	Angela	AN-MA
AN-MA	Angela	
E24A	Baker	
BGMT	Barton Gulch	
BCM	Basin Creek	
BSMT	Bassoo Peak	
B18A	Beardsley Farm, Havre	
A21A	Bergtoll Ranch, Theony	
G23A	Biddle	
BBM	Big Bend	
BCB	Big Creek Baldy	
BFM	Bigfork	
BHMT	Big Hole Peak	
F18A	Big Timber	
F20A	Billings	
BS-MA	Billings	
G22A	Birney	
BLK	Black Butte	
BPMT	Black Pine Ridge	
BLMT	Blacktail Mountain	
BZE	Bozeman	
BZM	Bozeman	
BZMT	Bozeman Pass	
BOZ	Bozeman (W)	
B15A	Bradely Ranch, Valier	
G20A	Bridger	
B19A	Brinkman Farms, Chinook	
B23A	Brockton	
F15A	Butte	

Code	*Station Name*	*Other*
BUT	Butte	
CLX	Calx Mountain	
A22A	Carney Farms, Richland	
CHMT	Chamberlain Mountain	
CRMT	Chrome Mountain	
CMT	Clancy	
CCMT	Clark Canyon Reservoir	
CFM	Cliffside	
E14A	Clinton	
A20A	Cobblestone Ranch, Loring	
D22A	Cohagen	
CKM	Coopers Lake	
D19A	Cripps Ranch, Grass Range	
DGMT	Dagmar	
DMMT	Dalton Mountain	
D16A	Dana Ranch, Cascade	
F13A	Darby	
E15A	Deer Lodge	
DPM	Delmo Park	
YPDC	Denny Creek	
C21A	Desert Coulee Ranch, Glasgow	
G15A	Dillon	
DI-	Dillon	DI-MA
DLMT	Dillon	
DI-MA	Dillon	
A14A	Double T Ranch, Babb	
EGMT	Eagleton	
QLMT	Earthquake Lake	
E16A	East Helena	
ERMT	East Ridge	
F24A	Ekalaka	
ELMT	Elliston	
B21A	Ellsworth Farm, Hinsdale	
FBMT	Ferry Basin	
F17A	Fitzpatrick Place, Clyde Park	
A13A	Flathead National Forest, Polebridge	
FR-	Forsyth	FR-MA
FR-MA	Forsyth	
C16A	Fuhringer Ranch, Dutton	
D24A	Glendive	
GI-	Glendive	GI-MA
GI-MA	Glendive	
GBM	Granite Butte	
GCR	Grayling Creek	
D14A	Greenough	
GCMT	Greycliff	
HH-ND	Hannah	
HH-	Hannah	HH-ND
E18A	Harlowton	
HV-	Havre	HV-MA
HV-MA	Havre	
YHL	Hebgen Lake	
HLM	Helmville	
HRF	Holter Research Foundation--Helena	
HRY	Holter Research Foundation--York Bridge	
C13A	Hot Springs	
HHM	Hungry Horse	
D13A	Huson	
HY-	Hysham	HY-MA
HY-MA	Hysham	
E23A	Ismay	
G14A	Jackson	
JTMT	Jette	
A15A	Johnson Ranch, Cut Bank	
E21A	Keefer Ranch, Vananda	
F16A	Kennard Place, Willow Creek	
A19A	Klindworth Farms, Hogeland	
D21A	La Casta Ranch, Jordon	
LHM	Lake Helena	
C23A	Lambert	
LASA	Lasa Array	LAO
LA0	Lasa Array	LAO
LAO	LASA Array	
LB2	LASA B Ring	
LB1	LASA B Ring	
LB3	LASA B Ring	
LB4	LASA B Ring	
LC2	LASA C Ring	
LC1	LASA C Ring	
LC3	LASA C Ring	
LC4	LASA C Ring	
LD3	LASA D Ring	
LD4	LASA D Ring	
LD2	LASA D Ring	
LD1	LASA D Ring	
LE1	LASA E Ring	
LE3	LASA E Ring	
LE2	LASA E Ring	
LE4	LASA E Ring	
LF2	LASA F Ring	
LF4	LASA F Ring	
LF3	LASA F Ring	
LF1	LASA F Ring	
G18A	Lazy EL Ranch, Roscoe	
LCCM	Lewis and Clark Caverns	
LN-MA	Lewistown	
B17A	L&G Farms, Chester	
B12A	Libby	
LDM	Libby Dam	
H15A	Lima	
LRM	Limekiln Ridge	
D15A	Lincoln	
D23A	Lindsay	
D18A	Linhart Farms, Moccasin	
LBM	Little Butte	
LHD	Little Hoodo Mountain	
LTMT	Little Table Mountain	
G21A	Lodge Grass	
LFM	Lubrecht Forest	
LYMT	Lyon Mountain	
D20A	Manuel Ranch, Winnett	
B14A	Marquette Ranch, East Glacier	
E17A	Martinsdale	
MCMT	McKenzie Canyon	
A18A	Metzger Ranch, Havre	
E20A	Meyer Farm, Musselshell	
E22A	Miles City	
MKMT	Mink Peak	
MSMT	Mission Creek	
MSO	Missoula	
B16A	M & M Farms, Shelby	
MOMT	Monida	
G16A	Moss Hill, Ennis	
BEMT	Mount Belmont	
MEMT	Mount Ellis	
HBMT	Mount Humbug	
C12B	Naegeli Ranch, Trout Creek	
NCM	Ninemile Creek	
NDMT	Ninemile Divide	
OVMT	Ovando	
G17A	Pierce Place, Pray	
PNK	Pinkham Creek	
PCMT	Pistol Creek	
E19A	Rath Farm, Roundup	
B22A	Reddig Ranch South, Frazer	
RLMT	Red Lodge	
YPRL	Red Lodge	
A23A	Redstone	
RFM	Reservoir Flats	
RXF	Rexford	
F22A	Rosebud	
F19A	Roth Farm, Molt	
H16A	Russell Place, West Yellowstone	
C15A	Salmond Ranch, Choteau	
C24A	Savage	
SLMT	Seeley Lake	
SGM	Silver Gate	
D17A	Six Diamond Ranch, Ranyesford	
SXM	Sixmile	
C19A	Slack Wire Ranch, Winifred	
B20A	Solberg Farm, Malta	
STMT	Stillwater Mine	
-A0MA	Subarray A0 LASA	
SVMT	Summit Valley	
SWP	Swamp Creek	
C14A	Swan Lake	
SWMT	Swartz Lake	
SW-	Sweetgrass	SW-MA
SW-MA	Sweetgrass	
TEE	Teeples Ranch	
TPMT	Tepee Creek	
A17A	Triple J Farms, Joplin	
C12A	Trout Creek	
C20A	Veseth Ranch, Zortman	
VCMT	Victor	
E13A	Victor	
C22A	Vida	
F23A	Volborg	
WCM	Warland Creek	
YPWB	West Boundary	
A16A	West Butte Ranch, Sweetgrass	
YWY	West Yellowstone	
C17A	Wharram Farm, Highwood	
B13A	Whitefish	
WHM	Wild Horse Parks	
F14A	Wisdom	
YKM	Yaak	
A12A	Yaak River Ranch, Troy	
YBMT	Yellow Bay	
YNE	Yellowstone Northeast Entrance	
YCM	YMCA Camp	
Nebraska		
O29A	4D Ranch, Culbertson	
AI-NB	Alliance	
AI-	Alliance	AI-NB
M34A	Aspy Farms, Fremont	
ABN	Auburn	
N31A	Bailey Ranch, Gibbon	
M28A	Bar X Bar Ranch, Keystone	
K30A	Basset	
O34A	Beatrice	
BENE	Beatrice	
BGNE	Belgrade	
O32A	Brockman Farm, Red Cloud	
M29A	Burnside Ranch, Stapleton	
L31A	Butterfield Farm, Chambers	
CCNE	Clay Center	
CZ-	Cody	CZ-NB
CZ-NB	Cody	
CUN	Columbus	
L28A	Connealy Angus Ranch, Whitman	
CR2NB	Crete	
CR-NB	Crete	
CTN	Crete	
CR-	Crete	CR-NB
M30A	Dale-Ortello Valley, Anselmo	
DTN	Dwight	
L32A	Elgin	
L25A	Engebretsen Ranch, Morrill	
K27A	Flueckinger Farm, Gordon	
GO-NB	Gordon	
GO-	Gordon	GO-NB
GAN	Gretna	
K33A	Hardington	
HS-	Hay Springs	HS-NB
HS-NB	Hay Springs	
O33A	Hebron	
HMN	Homestead National Monument	
L33A	Hoskins	
N30A	Hueftle Ranch, Cozad	
O35A	Humboldt	
INDN	Indianola	
N33A	J Bar K, Exeter	
JHN	Johnson	
O28A	Krutsinger Ranch, Parks	
M31A	Lambtecht Ranch, Loup City	
K29A	Lazy Trails Angus Ranch, Wood Lake	
LCN	Lincoln	
LIN	Lincoln	
N34A	Lincoln	
LCNC	Loup City	
LCNE	Loup City	
K25A	Mack Ranch, Harrison	
L29A	Maesberg Ranch, Thedford	
M26A	McRoberts Ranch, Bridgeport	
MKN	Medicine Creek Dam	
MH-	Mitchell	MH-NB
MH-NB	Mitchell	
K26A	Motz Farm, Whitney	
O30A	MW Ranch, Wilsonville	
NR-	Niobrara River	NR-NB
NR-NB	Niobrara River	
OGNE	Ogallala	
K31A	O'Neill	
PCNE	Platte Center	
N28A	Pribbeno Ranch, Imperial	
M27A	Reverse DX Ranch, Oshkosh	
L30A	Spencer Herefords Ranch, Brewster	
SGN	Springfield	
N32A	Stulken Farm, Doniphan	
L34A	Svendsen Farm, Lyons	
L27A	T5 Ranch, Ellsworth	
M33A	Taylor Creek Farms, Clarkson	
K28A	Ten Mile Ranch, Cody	
L26A	Underwood Farm, Alliance	
K32A	Verdigre	
N29A	Votaw Ranch, Wellfleet	
WHNE	Wahoo	
WNN	Wann	
O31A	Woolen Ranch, Alma	
Nevada		
BUK	413	
LWN	416	
ALA	Alamo	
AMDNV	Amargosa	
ANCR	Anchorite	
APK	Angel's Peak	
APKW	Angels Peak	
U10A	Ash Meadows, Armagosa	
APNR	Astor Pass	
P09A	Austin	
AT-NV	Austin	
AT-	Austin	AT-NV
BRO	Bare Mountain	
BMN	Battle Mountain	
BEA	Beatty	BTY
BTY	Beatty	
BLM*	Bell Mountain	
BLT	Belted Range	
BGB	Big Butte	
BGN	Big Creek	
BIS	Bismark Peak	
BMT*	Black Mountain	
BMTN	Black Mountain	
TVH2	Borealis Mine area, Hawthorne	
BCN	Boulder City	
BNPN	Boundary Peak	
BONR	Boundary Peak	
BOX	Box Canyon	
BYX	Boyer Ranch	
BFC	Buffalo Canyon	
N06A	Buffalo Meadows, Empire	
CTS	Cactus Peak	
CDH1	Calico Hills	
CDH5	Calico Hills	
CQ-NV	Caliente	
W12A	Cal Nev Ari	
CANR	Candelaria	
Q09A	Carvers	
NYC	Charley	
P11A	Circle Ranch, Eureka	
Q10A	Clear Creek Ranch, Tonopah	
NYM	Climax Mine	
N12A	Clover Valley, Wells	
COLR	Columbus	
U11A	Corn Creek	
T11A	Corn Creek, Alamo	
O10A	Cortez Mining, Crescent City	
COTR	Cottonwood	
O11A	Cowboy Ranch, Jiggs	
CPX	CP-1	
CPY	CP-1	
CPN	CP-17	
CMN	Crown Mine	
CND	Currant	
CU-NV	Currant	
CU-	Currant	CU-NV
O12A	Currie	
S12A	Delamar Landing Field, Caliente	
DLM	Delamar Mountains	
DIXR	Dixie Hot Springs	
P08A	Dixie Valley	
DSM	Dog Skin Mountain	
Q11A	Duckwater	
N10A	Dunphy	
TVH3	East Aurora area, Hawthorne	
EPR	East Pahranagat Range	
ESTR	Eastside	
EHN	Echo Peak	
EPM	Echo Peak	
EMN	Eldorado Mountains	
EKO	Elko	
ELK	Elko	
N11A	Elko Archery Club, Elko	
EY-	Ely	EY-NV
EY2	Ely	EY2NV
EY2NV	Ely	
EY-NV	Ely	
ELY	Ely	
ETS	Engine Test Stand	
P10A	Eureka	
EK-NV	Eureka	
EUR	Eureka	
EK-	Eureka (L)	EK-NV
EXC	Excelsior	
FPN1	Fairview Park	
FPN	Fairview Peak	
P07A	Fallon	
FA-NV	Faultless	
FERR	Ferguson	
O09A	Fish Creek Ranch, Battle Mountain	
FLV	Fish Lake Valley	
O06A	Flanigan	
Q08A	Gabbs	
GAB	Gabbs	
GNO	Genoa	
N07A	Gerlach	
N07B	Gerlach	
N08A	GE Springer Mine, Mill City	
GBT	Gilbert	
GILR	Gillis	
GF-NV	Goldfield	
S09A	Goldfield	
GF-	Goldfield	GF-NV
GMN	Gold Mountain	
V11A	Goodsprings	
GLR	Groom Lake Road	
GMR	Groom Range	
ZOX	Ground Zero	GZN
GZN	Ground Zero	
GRX	Grover	
M08A	Happy Creek Ranch, Winnemucca	
HLX	Hole	
M11A	Holland Ranch, North Fork	
HCR	Hot Creek Range	
HYX	Hoyt Mine	
HCK	Huntoon Valley	
HVL	Huntoon Valley	
M10A	I.L. Ranch, Tuscararo	
IO-	Ione	IO-NV
IO-NV	Ione	
JON	Johnnie	
NYJ	Joshua Tree	
KVN	Kaiserville	
KP-NV	Kawich Peak	
KRNA	Kawich Range	
LM-NV	Lake Mead	
LM-	Lake Mead	LM-NV
LVN	Las Vegas	
LVW	Las Vegas	
LDV	Leadville	
LI-NV	Liberty	
LI-	Liberty	LI-NV
LHV	Little Huntoon Valley	
LSM	Little Skull Mountain	
LSN	Little Skull Mountain	
LOP	Lookout Peak	
LVK	Lovelock	
LO-NV	Lovelock	
LO-	Lovelock	LO-NV
LBP	Lucky Boy Pass	
LNG	Luning	
MGM	Magruder Mountain	
M09A	Marrel Ranch, Paradise Valley	
P12A	McGill	
MCN	Mercury	
MCV	Mercury	
MCY	Mercury	
MILR	Miller Mountain	
MN-NV	Mina	
R08A	Mina	
MNA	Mina	
MNV	Mina	
MN-	Mina	MN-NV
NVAR	Mina Array Beam Reference Point	
NV01	Mina Array Site 1	
NV10	Mina Array Site 10	
NV02	Mina Array Site 2	
NV03	Mina Array Site 3	
NV32	Mina Array Site 32	
NV33	Mina Array Site 33	
NV04	Mina Array Site 4	
NV05	Mina Array Site 5	
NV06	Mina Array Site 6	
NV07	Mina Array Site 7	
NV08	Mina Array Site 8	
NV09	Mina Array Site 9	
NV11	Mina Array Sites 11 and 31	
T12A	Moapa	
M13A	Montello	
MZP	Montezuma Peak	
MTPC	Mountain Pass	
MTI	Mount Irish	
N23	N23	
NMN	Nasa Mountain	
V12A	Nelson	
NEN	Nelson	
NEL	Nelson	
NT2NV	Nevada Test Site	
NT-NV	Nevada Test Site	
NTA	Nevada Test Site Array	
NPN	North Pahroc Range	
NPM	North Pahute Mesa	
NRM	North Rainier Mesa	
NRR	North Reno	
ADM	NRDS	
OB3NV	Oak Springs Butte	
OB-NV	Oak Springs Butte	
OB2NV	Oak Springs Butte	
OVE	Overton	
PAHR	Pah Rah Range	
PRN	Pahroc Range	
PMN	Pahute Mesa	
LO2	Pahute Mesa	
PH3NV	Pahute Mesa Site	
PH4NV	Pahute Mesa Site	
PH-NV	Pahute Mesa Site	
PH2NV	Pahute Mesa Site	
PARR	Paradise	
PEAR	Peavine Mountain	
PNR	Penrod	
PNTR	Pine Nut	
R12A	Pony Springs, Pioche	
QM-NV	Quartzite Mountain	
QCS	Queen City Summit	
QNR	Quinn River	
QRV	Quinn River Valley	
S11A	Rachel	
RH-NV	Rawhide Mountain	
NYR	Receiver Site	
REN	Reno	
RVE	Reveille Range	
O08A	Rochester Mine, Lovelock	
N09A	Rock Creek Ranch, Golconda	
RUT	Ruth	

Code	Station Name	Other
RYN	Ryan	
SGI04	Saint George Infrasonic Array Site 4	
Q07A	Schurz	
SRG	Seaman Range	
SHRG	Sheep Range	
SHPR	Sheep Range	
SZ-	Shoal	SZ-NV
SZ-NV	Shoal	
SSP	Shoshone Peak	
SVP	Silver Peak Range	
SIMR	Simon	
STM	Slate Mountain	
SMN	Sleeping Mountain	
M07A	Soldier Meadows	
SPRG	Spotted Range	
SSX	SS1	
STX	Station 2	
P06A	Stead Airport, Stead	
ST-NV	Stillwater	
SWN	Stillwater	
ST-	Stillwater	ST-NV
SDH	Striped Hills	
SOX	Sue Hot Springs	
SC-	Sutcliffe	SC-NV
SC-NV	Sutcliffe	
NYS	Syncline Ridge	
TPU	Tempiute Mountain	
N2-NV	Test Site	
NT13	Thirsty	
TCNV	Thirsty Canyon	
TMBR	Timber Mountain	
TMN	Timber Mountain	
TP-NV	Tippipah	
TP-	Tippipah	
TI-NV	Tolicha Peak	
TPK	Tolicha Peak	
R09A	Tonopah	
TNP	Tonopah	
TPH	Tonopah	
TPV	Tonopah	
S10A	Tonopah Range, Tonopah	
TPNV	Topopah Spring	
O07A	Toulon	
TRCR	Troy Canyon	
R11A	Troy Canyon, Currant	
TVH1	TV Hill, Hawthorne	
TSV	Twin Springs	
UVN	Unionville	
UVN1	Unionville	
U12A	Valley of Fire, Overton	
NYV	Vern	
VCNR	Virginia City	
VIP	Virginia Peak	
WAD	Wadsworth	
WAKR	Walker	
WZ-NV	Warm Springs	
WSN	Warm Springs	
R10A	Warm Springs	
WSR	Warm Springs Repeater	
WSH	Washington Hill	
WCN	Washoe City	
M12A	Wells	
N13A	Wendover, West Wendover	
WTCR	Whites Canyon	
WCT	Wildcat Mountain	
WLDR	Wildhorse	
L09A	Wilkinson Ranch, McDermitt	
Q12A	Willow Creek Ranch, Ely	
WI-	Winnemucca	WI-NV
WI-NV	Winnemucca	
WMN	Winnemucca	
WRN	Worthington Mountains	
YERR	Yerington	
YF4NV	Yucca Flat NTS	
YF3NV	Yucca Flat NTS	
YF-NV	Yucca Flat NTS	
YF2NV	Yucca Flat NTS	
YMT3	Yucca Mountain	
YM-NV	Yucca Mountain	
YMT1	Yucca Mountain	
YMT2	Yucca Mountain	
YMT4	Yucca Mountain	
YMT5	Yucca Mountain	
YMT6	Yucca Mountain	
NT-		NT-NV
WHR		
NT2		NT2NV
NSP		
FPK		
New Hampshire		
BNH	Berlin	
K63A	Dunstable	
DNH	Durham (NH)	
FNN	Franconia Notch	
FFD	Franklin Falls Dam	
HNH	Hanover	
J62A	Henniker	
LANH	Laconia	
LB-	Lebanon	LB-NH
LB-NH	Lebanon	
LS-NH	Lisbon	
LBNH	Lisbon	
LS-	Lisbon (USA)	LS-NH
H62A	Milan	
ONH	Oakhill	
PNH	Pitcher Mountain	
NH1	Sanbornton	
J63A	Strafford	
I62A	Tamworth	
DUNH	University New Hampshire, Durham	
UNH	University of New Hampshire, Durham, NH	
WNH	Whiteface	
WBNH	Wolfeboro	
New Jersey		
O61A	Allentown	
BRNJ	Basking Ridge	
CNJ	Catfish Pond	
DENJ	Denville	
GMTN	Garret Mountain	
GPD	Greenpond	
P61A	Hammonton	
LVNJ	Long Valley	
PEMC	Merrill Creek	
ABMC	Merrill Creek	
FHMC	Merrill Creek	
HRMC	Merrill Creek	
PMMC	Merrill Creek	
PDMC	Merrill Creek	
PFMC	Merrill Creek	
EPMC	Merrill Creek	
MONJ	Montclair	
MSNJ	Montclair St. U.	
OGD	Ogdensburg	
ODNJ	Ogdensburg	
PQN	Pahaquarry	
PNJ	Paterson	
PVN	Peters Valley	
PANJ	Princeton	
PRIN	Princeton	
RAMA	Ramapo Mountain	
N61A	South Mountain, Millburn	
TABN	Tabernacle	
New Mexico		
X21A	Alamocita Creek, Datil	
W22A	Albuquerque	
ABQ	Albuquerque	ALQ
ALQ	Albuquerque	
ANMO	Albuquerque	
ANTR	Antelope Ridge	
127A	Arkansas Junction, Hobbs	
TASM	ASL Pad, Albuquerque Seismic Lab	
U26A	Atchley Ranch, Grenville	
BRC	Barley Canyon	
BNM	Barren Site	
BMNM	Bear Mountains	
T19A	Beclabito	
123A	Bell Site, White Sands Missile Range	
227A	Bennet, Jal	
X22A	Bernardo	
BDNM	Bernardo	
BBN	Black Butte	
W27A	Bowe Ranch, Endee	
V20A	Brimhall	
CCN	Cachucha Ranch	
Y24A	Capitan	
Z26A	Caprock	
CPRX	Cap Rock	
CLN	Carlsbad	
CLNB	Carlsbad	
CLN2	Carlsbad 2	
CLN4	Carlsbad 4	
CLN6	Carlsbad 6	
CLN7	Carlsbad 7	
CBET	Carlsbad E Tower	
CRNM	Carthage	
Y27A	Causey	
CZL	Cerro Azul	
CDN	Cerro del Durazano	
CNM	Chama	
223A	Chaparral, Anthony	
U25A	Circle Dot Ranch, Maxwell	
CLP	Clara Peak	
126A	Clayton Basin, Artesia	
X25A	Clemmons Ranch, Yeso	
COH	Cochiti	
122A	Conniff Cattle Co., Rinco	
121A	Cookes Peak, Deming	
X26A	CR and CF Franklin Farms, Melrose	
DMPK	Deadman Peak	
225A	Deer Hill, Carlsbad	
DNM	Dulce	
Z22A	Elephant Butte, Truth or Consequences	
Y26A	Elida	
U23A	El Rito	
EST	Estancia	
EUM	Eureka Mesa	
X27A	F and S Farms, Texico	
FARG	Farmington	
FCN	Frijoles Canyon	
125A	Gardner Draw, Artesia	
GB-NM	Gasbuggy	
GN-NM	Gnome	
GN-	Gnome	GN-NM
GNM	Golden	
GDL2	Guadalupe Mountain	
HTMS	Hat Mesa	
Y20A	Horse Springs, Datil	
X23A	Hourglass Bar Ranch, Mountainair	
Y22D	IRIS PASSCAL Instrument Center, Socorro	
Y22E	IRIS PASSCAL Instrument Center, Socorro	
Y22C	IRIS PASSCAL Instrument Center, Socorro	
JOAQ	Joaquin Lookout	
JUM	Jug	
KT5	Kermit	
KT2	Kermit	
KT4	Kermit	
KT8	Kermit	
KT7	Kermit	
KT1	Kermit	
KT3	Kermit	
KT9	Kermit	
320A	Kipp Ranch, Antelope Well	
LCV	La Cueva	
LAZ	Ladron	
LAD	Ladron Mountain	
LJY	La Joya	
LFC	Lale Fork Canyon	
LC-	Las Cruces	LC-NM
LC-NM	Las Cruces	
W24A	Lazy 6 Ranch, Villanueva	
X24A	Lazy VL Ranch, Encino	
LENM	Lemitar	
U22A	Llaves	
LOA	Los Alamos	
LSIAR	Los Alamos Infrasonic Array Beam Reference Point	
LSI01	Los Alamos Infrasonic Array Site 1	LSIAR
LSI03	Los Alamos Infrasonic Array Site 3	
LSI04	Los Alamos Infrasonic Array Site 4	
LPM	Los Pinos Mountain	
Y23A	Lovelace Mesa, Carrizozo	
226A	Malaga, Loving	
MLM	Mesa Lucero	
Y25A	Mesa, Roswell	
221A	Mesquite Ranch, Deming	
V21A	Milan	
ML-	Mogollon	ML-NM
ML-NM	Mogollon	
U24A	Moreno Valley High School, Angel Fire	
MSA	Mount San Antonio	
MTL	Mount Taylor	
U21A	Nageezi	
T21A	Navajo Lake, Ignacio	
U20A	Newcomb	
NMH	New Mexico Highlands	
Z20A	Nine Sixteen Ranch, Cliff	
OTZ	Ortiz Mountain	
V23A	Ortiz Mt. (NFS), Santa Fe National Forest	
W26A	Owens Ranch, Tucumcari	
TVZX	PASSCAL Warehouse	
220A	Playas Peak, Playas	
Y21A	Point of Rocks Canyon, Magdalena	
X20A	Quemado	
W20A	Ramah	
V24A	Rampart Ranch, Las Vegas	
V25A	Rancho No Tengo, Wagon Mound	
RT-NM	Raton	
RT-	Raton	RT-NM
REDP	Redondo Peak	
RIO	Rio Grant	
Z23A	Rita Site, White Sands Missle Range	
Z25A	Roswell	
SPD	Saint Peter's Dome Lookout	
W21A	San Fidel	
SMNM	San Marcial	
V22A	San Miguel Ranch, Cuba	
Z24A	Sheeppen Canyon, Tinnie	
SVM	Silver City	
TASL	Snake Pit, Albuquerque Seismic Lab	
SRF	Snake Ranch	
Y22A	Socorro	
SRM	Socorro	
SNM	Socorro	
SBM	South Baldy	
Z21A	St. Cloud Mine, Winston	
124A	Stringfield Ranch, Weed	
Z27A	Tatum	
226B	Tecolote Peak, Malaga	
V26A	Tequesquite Ranch, Mosquero	
TSP	Tesuque Peak	
TTP	Tetilla Peak	
TC-	T or C	TC-NM
TD-	Tres Piedras	TD-NM
TD-NM	Tres Piedras	
TC-NM	Truth or Consequences (T or C)	
120A	U Bar Ranch, Lordsburg	
W23A	Werner Place, Edgewood	
WMA	West Mesa	
222A	Williams Family Ranch, Las Cruces	
WTX	Workman Tunnel	
W25A	X Bar L Ranch, Newkirk	
New York		
ADN	Adams	
RSNY	Adirondack	
ACCN	Adirondack Community College	
APH	Airport Hangar	
ALX	Alexander Bay	
ALF	Alfred	
ANNS	Annsville	
J54A	Appleton	
ARNY	Arden House	
ATT	Attica	
ABRN	Auburn	
ASNY	Au Sable	
BGR	Bangor (NY)	
K54A	Basiliko Farm, Boston	
BERL	Berlin (NY)	
BING	Binghamton	
BINY	Binghamton	
BNY	Binghamton	
BRNY	Black Rk. Forest	
BML	Blue Mountain Lake	
BLMY	Blum	
BRCN	Bracie Corner	
BIPS	Buchanan	
BUF	Buffalo	
BFF	Buffalo-Larkin	
H59A	Cadyville	
CHRY	Calls Hollow Road	
CAMB	Cambridge (NY)	
CANY	Canisius	BUF
CCNY	Canisius College, New York, USA	
I57A	Carthage	
CTNY	Carthage	
CTR	Castle Rock	
N62A	Caumsett State Park, Huntington	
CAZE	Cazenovia	
CPNY	Central Park	
CHAU	Chaumont	
CNY	City College NY	
CLAR	Clarkstown	
CLIN	Clinton	
CONY	Cobleskill	
COSP	Cold Spring	
CSRY	Cold Spring River	
K59A	Cooperstown	
CROG	Croghan	
CRNY	Cross River	
CLY	Crystal Lake	
DANY	Dannemora	
DH-NY	Delhi	
DH-	Delhi	DH-NY
DPLY	Delli Paoli	
DP-	Deposit	DP-NY
DP-NY	Deposit	
DNY	Dersam	
DHN	Doyle Hill	
DBMY	Dunderburg Mountain	
DSN	Dusing	
EGN	Eagle's Nest	
K58A	Earlville	
EAN	East Aurora	
ELNV	Ellenville	
ELM	Elma	
FINE	Fine	
K60A	Five Rivers Env. Education Center, Delmar	
FRNY	Flat Rock	
FOR	Fordham	
H58A	Gabriels	
GARN	Garrison	
GENY	Geneseo	
GERM	Germantown	
GILB	Gilboa	
GSCY	Girl Scout Camp	
GCY	Glen Cove	
GLOV	Gloversville	
GOBY	Gobbelet	
GNF	Goodnow Flow	
GFN	Grafton	
M61A	Granite Springs	
L56A	Greenwood	
HMB	Hamburg	
HNY	Hamilton	
L58A	Harry Jones Memorial, Binghamton	
HAVE	Haverstraw	
L61A	Hillsdale 1, Hillsdale	
J55A	Hilton	
L55A	Hinsdale	
HMCY	Holy Mount Cemetery	
HCNY	Howe Caverns	
INY	Ithaca	
ITH	Ithaca	
KSVO	Keeseville	
LCNA	Lacona	
LONY	Lake Ozonia	
LOZ	Lake Ozonia	
J60A	Lant Hill Farm, Argyle	
LILH	Lima (NY)	
AMNH	Manhattan	
MSNY	Massena	
N63A	Mattituck	
MEDY	Medina	
MEDO	Medina	
K56A	Middlesex	
MIV	Mineville/Witherbee	
NPNY	Mohonk Preserve	
MANY	Mount Airy	
MMNY	Mt. Morris Dam	
CHIP	Near Potsdam	
NCB	Newcomb	
NWC	North Woods Club	
OAK	Oakfield	
I58A	Old Forge	
I59A	Olmsteadville	
ONTR	Ontario (NY)	
OSBY	Osborn	
OSNY	Ossining	
OSWG	Oswego	
OCN	Over Castle Rock	
PRNY	Paleo Inst,Ithaca	
PAL	Palisades	
K55A	Perry	
PGY	Peter Gray Mountain	
PHEL	Phelps	
J59A	Piesco	
PNZ	Plattsburgh	
PNY	Plattsburgh	
M60A	Port Jervis	
POTS	Potsdam Coll	
PTN	Potsdam (NY)	
PUTN	Putnam	
QLNY	Queensboro Lake	
CUNY	Queens College	
J58A	Remsen	
H57A	Richville	
ROC	Rochester	
RMO	Rochester (NY)	
RLSP	Rockland Lake	
ROTD	Rotterdam (NY)	
SPSY	Saint Peters School	
SANY	Sanborn	
SRMY	Scherman	
K57A	Scipio Center	
L60A	Shokan	
L54A	Sinclairville	
SKN	Skaneateles	
SKLY	Ski Hill Lift	
SONY	Sodus	
SFO	Sterling Forest	
SFN	Sterling Forest	
STLY	Stiles	
STWA	Stillwater	
PKNY	Stone Ridge	
PONY	Stone Ridge	
SPNY	Stone Ridge	
SNPY	Stony Point	
SUFF	Suffern	
TBR	Table Rock	
TRY	Troy	
TUS	Tuscarora	
TXNY	Tuxedo	
UWL	Utowana Lake	
VCS	Vernal Corners	
L59A	Walton	
WPR	Ward Pound Ridge	
WTVE	Waterville	
WGLY	Wegel	
WLI	Wellesley Island	
WCNY	West Carthage	
WCCN	Westchester CC	
WCC	Westchester Community College	
WMNY	West Monroe	
WEST	Westmoreland	
WPNY	West Park	
WVLY	West Valley	
WVNY	West Valley, New York	
J57A	Williamstown	
WNY	Wilmington	
WND	Windham	
J56A	Wolcott	
YSNY	Yorkshire	
JORD		
North America		

Code	*Station Name*	*Other*
HMH	Humu'ula Sheep Station	
PJLM	Jolon Road	
KOFP	Korovin Flat Point	
MWH	Moku'a@18weoweo	
PJC	Pensacola State College	
North Carolina		
AE-NC	Albemarle	
AE-	Albemarle	AE-NC
X60A	Albert Glenn Thornton	
AVNC	Asheville	
BENN	Benn Knob	
U57A	Blanch	
BRBC	Blue Ridge Broadcasting Company	
Y60A	Bolivia	
BUNC	Butner	
CCNC	Camp Creek Bald	
CEH	Chapel Hill	
CHC	Chapel Hill	
CPC	Cherry Point	
CNNC	Cliffs of the Neuse	
W59A	Clinton	
V57A	Coltrane Farms	
W53A	Cullowhee	
ER319	Early Rise 319	
W57A	Gilead	
GFM	Grandfather Mountain	
GBNC	Greensboro	
W61A	Ground Anchor Farm, New Bern	
V62A	Hyde County Airport	
W56A	Indian Trail	
V60A	Jim Taylor Road, Stokes	
U56A	King	
RNC	Little Raleigh	
U59A	Littleton	
X59A	McDuffie Farm, Elizabethtown	
V59A	Middlesex	
V56A	Mocksville	
MGNC	Mount Gibbes	
MTSH	Mount Sheppard	
W52A	Murphy	
MYNC	Murphy	
V54A	Nebo	
NCAT	North Carolina A&T Campus	
U58A	Oxford	
PAULI	Pauline	
U60A	Pendleton	
W60A	Pink Hill	
PKNC	Pores Knob	
U61A	Possum Corner Farms, Belvidere	
W58A	Raeford	
RBNC	Richland Balsam	
RICH	Rich Mountain	
V61A	Roper	
X58A	Rowland	
V53A	Saluda	
SMNC	South Mountain	
U55A	TA2, Sparta	
V55A	Taylorsville	
TVNC	Taylorsville	
TRYN	Tryon Peak	
WSSR	Wesser Bold	
WNC	Wilmington	
V58A	Windy Hill, Pittsboro	
WSNC	Winespring Bald	
North Dakota		
E32A	Braaten, Kindred	
D30A	Buchanan	
E26A	Carlson Angus Ranch, Regent	
E27A	Carson	
D27A	Center	
D32A	Dogwood Acres, Gardner	
B28A	Dugan Ranch, Towner	
D25A	Fairfield	
C25A	Freed Ranch, Watford	
B31A	Greenbush Farm, Park River	
HH2ND	Hannah	
HH2	Hannah	HH2ND
C28A	Hausauer Farms, Kief	
A30A	Hoffart Farm, Langdon	
E28A	Huff	
B26A	Jensen Ranch, Palermo	
E30A	Jud	
B25A	Knox Farm, Ray	
C31A	Landman Farms, Northwood	
A27A	Ledoux Ranch, Antler	
MDND	Maddock	
D26A	Manning	
A29A	Manning Farm, Rocklake	
D31A	Mcclaflin, Tower City	
E25A	Miller Ranch, Amidon	
C30A	Mose, Pekin	
B30A	Myrvik Farm, Edmore	
E29A	Napoleon	
E31A	Nome	
B27A	Peters Farms, Glenburn	
D29A	Pettibone, Tappen	
D28A	Regan	
A28A	Rude Farm, Bottineau	
RY-	Ryder	RY-ND
RY-ND	Ryder	
C27A	Sayler Ranch, Douglas	
A25A	Svangstu Ranch, Noonan	
TS-ND	Trotters	
TS-	Trotters	TS-ND
A26A	Wade Farm, Kenmare	
B29A	Wagenman Farm, Cando	
C26A	Wahner Farm, Parshall	
A24A	Westby	
Ohio		
O52A	Adamsville	
ACOH	Alum Ck. St. Park	
ACSO	Alum Creek State Park	
AN1	Anna	
AN10	Anna	
AN11	Anna	
AN3	Anna	
AN4	Anna	
AN7	Anna	
AN9	Anna	
AN8	Anna	
AN12	Anna	
N51A	Ashland	
ACEO	Ashtabula EMA	
BTCO	Belmont College, St. Clairsville	
Q52A	Bidwell	
BCSO	Bloom-Carroll	
BHSO	Botkins High School	
BGO	Bowling Green	
BGSO	Bowling Green State University	
O50A	Cable	
M52A	Chesterland	
CCHE	Chesterland	
CNN	Cincinnati	
CSCO	Clark State Community College	
CLE	Cleveland	
CLEO	Cleveland Museum of Natural History	
COWO	College of Wooster	
N49A	Columbus Grove	
P52A	Corning	
O49A	Covington	
CECL	East Claridon	
M48A	Edgerton	
ECCO	Edison CC	
M51A	Elyria	
M50A	Fremont	
GZ-OH	Galion	
Q50A	Georgetown	
CGRR	Girdled Road	
P50A	Jamestown	
KSUO	Kent State University	
LECO	Lake Erie College	
LCCO	Lakeland CC	
LCCO2	Lakeland CC 2, Kirtland	
M49A	Liberty Center	
N53A	Lisbon	
MACO	Marietta College	
MVKY	Maysville	
N52A	McGinn's Farm, Dalton	
CMEN	Mentor	
P49A	Miami Univ. Ecology Research Center	
MLF	Milford	
MOSO	Mohican School	
GPDO	Montville, Ohio	
MUCO	Mount Union College	
N50A	Nevada	
O53A	New Philadelphia	
OGSO	Ohio Geological Survey, Columbus	
OSUO	Ohio State University	
OSLO	Ohio State University--Lima	
OSMO	Ohio State University--Mansfield	
OUAO	Ohio University	
O51A	Pataskala	
Q51A	Peebles	
PIOH	Piqua	
SSUO	Shawnee State University	
CTOM	Thompson	
CTHA	Thorn Acres	
UOCO	University of Cincinnati	
UTLO	University of Toledo	
UTO	University of Toledo	
P53A	Whipple	
P51A	Williamsport	
WSCO	Wright State University--Celina	
WSDO	Wright State University--Dayton	
YSUO	Youngstown State University	
Oklahoma		
ACO	Alabaster Cavern State Park	
ATO	Altona	
U34A	Anderson Ranch, Garber	
AL-	Antlers	AL-OK
AL-OK	Antlers	
AP-	Apache	AP-OK
AP-OK	Apache	
V32A	Arapaho	
ADOK	Arcadia Dam	
AM-	Ardmore	AM-OK
AM-OK	Ardmore	
AK-	Atoka	AK-OK
AK-OK	Atoka	
BHO	Bethel	
BIX	Bixby	
W34A	Bridge Creek, Tuttle	
W33A	Caddo, Fort Cobb	
CCOK	Camp Classen	
CRO	Carnasaw Mountain Lookout Tower	
CDO	Cedar Creek	
X36A	Centrahoma	
OK006	Choctaw High	
CT-OK	Clayton	
CT-	Clayton	CT-OK
X37A	Clayton	
TUL0	Crosstimbers Borehole	
X35A	Drake	
DU-	Durant	DU-OK
DU-OK	Durant	
Y36A	Durant	
OK023	East Waterloo Road, Luther	
X32A	Elmer	
GBO	Fort Gibson	
FKO	Franklin	
FNO	Franklin	
V34A	Guthrie	
OK007	Harrah City Hall	
OK003	Hefner Road	
HB-OK	Hobart	
HB-	Hobart (Okla)	HB-OK
W31A	Holland Ranch, Erick	
Y37A	Hugo	
V37A	Hulbert	
Y38A	Idabel	
V36A	Jenks	
JCE1	John's Creek	
OK001	Jones High Sch.	
X33A	Lawton	
LNO	Leonard	
LNO3	Leonard	
TUL1	Leonard	
LNO2	Leonard	
U33A	Lingo Farm, Meno	
V33A	Lossen Ranch, Watonga	
OK005	Luther M School	
Y35A	Marietta	
MZO	Mazie Landing	
X31A	McDonald Ranch, Hollis	
MEO	Meers	
MFO	Meers Fault	
MRO	Meridian	
V35A	Meyer Ranch, Chandler	
OK020	N3440 Road, Meeker	
OK021	N3530 Road, Sparks	
OK022	N3560 Road, Prague	
U31A	Nine Bar Ranch, Gage	
NMO	Norman	
OK009	Oakdale Elementary Sch.	
OKCFA	Oklahoma City	
OCO	Oklahoma City	
OKCSW	OKLAHOMA CITY ARRAY SWEETHEART OKLAHOMA USA	
OK004	Okla Sci Mus	
OLO	Oologah	
U36A	Oologah	
U35A	Pawnee	
PKO	Pickens	
PCO	Ponca City	
W38A	Poteau	
QMO	Quartz Mountain	
QZO	Quartz Mountain State Park	
W37A	Quinton	
W37B	Quinton	
Y34A	Reagan Ranch, Oscar	
RRO	Red Rock Canyon	
RLO	Rose Lookout	
U37A	Salina	
W32A	Sentinel	
SCE1	Shell Creek	
SIO	Slick	
X34A	Smith Ranch, Marlow	
T35A	Sooner Cattle Company, Foraker	
OK008	Spencer City Hall	
V31A	Spring Creek Lake, Blk. Kettle Nat Grslnd	
W35A	Tecumseh	
TO-OK	Tishomingo	
TO-	Tishomingo	TO-OK
TSO	Tulsa	
TUL	Tulsa	
UYO	Union Valley	
VVO	Vivian	
WA-OK	Watson	
WA-	Watson	WA-OK
OK024	West corner E0890 Road	
W36A	Wetumka	
X38A	Whitesboro	
WMOK	Wichita Mountains	
WMO	Wichita Mountains Array	
OK002	Wilshire Harrah	
WLO	Wilson	
U32A	Winter Ranch, Mooreland	
U30A	WK&E Inc. Balko	
Oregon		
AOT	Adel	
L07A	Adell	
ALST	Alston	
ALVY	Alvey	
ALO	Ashland	
BPO	Bald Peter	
VBPM	Bald Peter	
BT-	Bates	BT-OR
BT-OR	Bates	
F10A	Beach Ranch, Enterprise	
VBEM	Beaver Butte	
I05A	Bend	
BEND	Bend	
BROR	Big Rock Lookout	
G10A	Bishop Farm, Joseph	
BKCOR	Black Crater	
BMO	Blue Mountains Array	
KBO	Bosley Butte	
BUCK	Buck Mountain	
BULL	Bull Run Dam	
BURN	Burns	
BUOR	Burton Butte	
BBOR	Butler Butte	
CHOR	Cabbage Hill	
G06A	Carlson Farm, Grass Valley	
L02E	Cave Junction	
L02A	Cave Junction	
L02D	Cave Junction, OR	
VCMM	Chase Mountain	
K04D	Chiloquin, OR	
K04A	Chilquin	
J06A	Christmas Valley	
J08A	Circle Bar Ranch, Crane	
B023	Clatskanie	
COLT	Colton High School	
COR	Corvallis	
G09A	Cove	
KR-	Crane	KR-OR
KR-OR	Crane	
VCLM	Crater Lake	
CROR	Criterion Ridge	
H04A	Detroit Lake	
DBO	Dodson Butte	
I03D	Drain, OR	
I08A	Drewsey	
H09A	Durkee	
KEBM	Edson Butte	
I03A	Eugene	
EUO	Eugene	
EYES	Ewing Young ES, Newberg ANSS-SMO	
FBO	Farmers Butte	
L08A	Fields	
VFP	Flag Point	
J05A	Fort Rock	
J05D	Fort Rock, OR	
FMC	Four Mile Canyon	
VFBM	Frederick Butte	
FRIS	Frissel Point	
J09A	Fry Pan Ranch, Harper	
K02A	Glendale	
VGTM	Goat Mountain	
GT2	Goat Mountain	
VGBM	Gordon Butte	VGB
VGB	Gordon Butte	
VGMM	Grass Mountain	
VGPM	Green Peter	
PGO	Gresham	
GROR	Grindstone Mountain	
GMO	Grizzlie Mountain	
HAMO	Hamaker Mountain	
VHBM	Hamelton Butte	
HSO	Harness Mountain	
HAO	Harrison Substation	
HRO	Hermiston	
VHHM	High Heaven	
J07A	Hines	
HMO	H. Mason	
HOG	Hogback Mountain	
VHEM	Hood Meadows East	
VHYM	Horsefly Mountain	
HBO	Huckleberry Mountain	
HUMO	Hull Mountain	
HUOR	Husband	
J03A	Ideyld Park	
IRO	Indian Ridge	
VIPM	Ingram Point	
I07A	Izee	
VJYM	Jersey	
JBO	Jordan Butte	
JORV	Jorden Valley SMO	
KEEL	Keeler	
KMOR	Kings Mountain	
L04A	Klamath Falls	
KFAL	Klamath Falls	
L04D	Klamath Falls	
KFO	Klamath Falls	
LGOR	La Grande	
L05A	Lakeview	
LKVW	Lakeview	
H07A	Lands Inn, Kimberly	
LANE	Lane BPA Site-SMO	
VLMM	Larch Mountain	
VLL	Laurance Lake	
H04D	Lebanon	
LIME	Lime	
LNOR	Lincton Mountain	
H06A	Lindquist Farm, Mitchell	
LAB	Little Aspen Butte	
I09A	Lost Marbles Ranch, Westfall	
K10A	MacKenzie Ranch, Jordan Valley	
H05A	Madras	
K08A	Mann Creek Ranch, Princeton	
I02A	Mapleton	
MRIN	Marion BPA Site DOGAMI SMO	
MPOR	Mary's Peak	
VMNM	Maupin	
G03D	McMinnville, OR	
MFW	Milton-Freewater	
MONO	Monmouth DOGAMI SMO	
MOON	Moon Mountain	
VMHM	Mount Hagen	
HEBO	Mount Hebo	
VHOM	Mount Hebo	
HOOD	Mount Hood Meadows	
G04A	Mulino	
J01E	Myrtle Point	
J01D	Myrtle Point	
NCOR	Newberry Crater	
NEWO	Newport DOGAMI SMO	
NLO	Nicolai Mountain	
PERL	Pearl BPA Site DOGAMI SMO	
F08A	Pendleton	
PT-OR	Pendleton	
PNO	Pendleton	
PT-	Pendleton	PT-OR
PK-OR	Pilot Rock	
G08A	Pilot Rock	
PK-	Pilot Rock	PK-OR
PN-OR	Pine Creek	
PN-	Pine Creek	PN-OR
PMT	Pine Mountain	
PINOR	Pine Mountain	
VPIM	Pine Mountain	
PINE	Pine Mountain Observatory	
PTD	Portland	
H08A	Prairie City	
PRLK	Prince Lake	
I06A	Prineville	
VRC	Rainbow Creek	
F04D	Rainier, OR	
K07A	Rock Creek Ranch, Frenchglen	
RBO	Rocky Butte	
RNO	Roman Nose	
K09A	Rome	
VRBM	Round Butte Dam	
G07A	Ruggs Ranch, Heppner	
F09A	S2 Ranch, Elgin	
VPMM	Saint Patrick Mountain	
VSMM	Salem	
VSCM	Scott Mountain	
B022	Seaside	
F03A	Seaside	
SEAS	Seaside SMO	
SA-	Seneca	SA-OR
SA-OR	Seneca	
K01A	Sixes	
KSCM	Snow Cap Mountain	
H03A	Soap Creek Ranch, Albany	
SOUA	Southern Oregon Univeristy DOGAMI SMO	
SR-OR	Sparta	
SR-	Sparta	SR-OR
VSP	Spence Mountain	
VSBM	Spring Butte	
K05A	Summer Lake	
SSOR	Sweet Springs	
I02D	Swisshome	
TAKO	Tahkenitch	
I04A	Tendick Farm, Oakridge	
I05D	Terrebonne, OR	
VTDM	The Dalles	
TCO	Three Creek Meadows	
WIFE	Three Sisters--Wife	
TIMB	Timberline	
H02A	Toledo	
TOLO	Toledo BPA CREST BB SMO	

Code	Station Name	Other
TDH	Tom, Dick, Harry Mountain	
TKO	Trask Mountain	
N02D	Trinity Center, CA	
TPOR	Trinity Point	
VTHM	Trough	
TCBU	Trout Butte	
VTCM	Trout Creek Butte	
UK-OR	Ukiah	
UK-	Ukiah	UK-OR
J02A	Umpqua	
UMPQ	Umpqua Community College DOGAMI SMO	
J04A	Umpqua National Forest, Toketee	
J04D	Umpqua National Forest, Toketee, OR	
K06A	Valley Falls	
VT-OR	Venator	
VT-	Venator	VT-OR
VWMM	Walker Mountain	
G05A	Wamic	
G05D	Wamic, OR	
VWBM	Wanoga Butte	
WPO	West Portland	
WMOR	Whale Back Mountain	
WVOR	Wild Horse Valley	
K02D	Willamette Meridian	
G03A	Yamhill	
Pennsylvania		
ABG	Abington	
ALLY	Alegheny College	
ATPA	Allentown	
AS-PA	Altoona	
O57A	Amberson	
L57A	Andrews Acres Farm, Gillet	
O54A	Avella	
BVR	Beaver	
BD-PA	Bedford	
BD-	Bedford	BD-PA
BV-	Belleville	BV-PA
BV-PA	Belleville	
BR-PA	Berlin	
BR-	Berlin (Penn)	BR-PA
BB-PA	Bloomsburg	
BB-	Bloomsburg	BB-PA
O56A	Blue Knob State Park, Imler	
N60A	Cedar Hill Farm, Mount Bethel	
DCP	Dickinson College	
ER300	Early Rise 300	
ER301	Early Rise 301	
ER302	Early Rise 302	
ER303	Early Rise 303	
M56A	Emporium	
ERPA	Erie	
ERP	Erie	
FMPA	Franklin College	
GT-PA	Galeton	
GT-	Galeton	GT-PA
L53A	Girard	
HKP	Hidden Lake	
HD-	Howard	HD-PA
HD-PA	Howard	
KSPA	Keystone College	
KTZ	Kutztown	
LUPA	Lehigh University	
O58A	Lewisberry	
LT-PA	Lewistown	
LT-	Lewistown	LT-PA
O55A	Ligonier	
N55A	Marion Center	
MR-PA	Middleburg	
MR-	Middleburg	MR-PA
MVL	Millersville	
N57A	Milroy	
MS-	Montrose	MS-PA
MS-PA	Montrose	
N54A	Moraine State Park, Portersville	
NKP	New Kensington	
M54A	Oil Creek State Park, Oil City	
WRPS	Penn State University	
PSDB	Penn State University - DuBois	
PSWB	Penn State Wilkes-Barre	
PSUB	Penn St. - Brandywine Campus	
PAGS	Pennsylvania Geol. Surv.	
PHI	Philadelphia	
PIT	Pittsburgh	
PJ-PA	Pottstown	
M58A	Price's Panorama, Muncy Valley	
M55A	Ridgway	
O59A	Robesonia	
SH-PA	Shamokin	
SH-	Shamokin	SH-PA
SSPA	Standing Stone	
SCP1	State College	
SCP	State College	
N59A	State Game Land 141, Hazleton	
N58A	Sunbury	
SSL	Sunset Lake	
M57A	Sunshine Farm, Cogan Station	
O60A	Telford	
TUPA	Temple University, Ambler	
TU-PA	Tunkhannock	
TU-	Tunkhannock	TU-PA
UPAO	U. Pittsburgh - Allegheny Obs.	
M59A	Waymart	
WAY	Waynesburg	
N56A	West Decatur	
M53A	WI Miller and Sons, Farmdale	
CMPA		
Rhode Island		
LAF	Lafayette	
L63A	North Scituate	
M64A	Tiverton	
South Carolina		
ADSC	Addlestone Acy	
BCS	Baptist College of Charleston	
X54A	Belton	
BIRD	Birdtown, Kershaw	
Z57A	Bowman	
BOW	Bowman	
CHF	Calhoun Falls	
CCS	Cawcaw Swamp	
CSU	Charleston Southern University	
W54A	Cherokee Point, Campobello	
SCCK	Coley Creek	
CSC	Columbia	SVC
COW	Cow Castle Creek	
CFS	Cross Fire Station	
DRC	Dorchester	
157A	Early Branch	
FMF	Francis Marion National Forest	
Z59A	Georgetown, SC	
X55A	Gracelyn & Ava, Whitmire	
GVS	Graniteville	
HBF	Harts Bluff	
HODGE	Hodges	
158A	Hollywood	
HWD	Hollywood	
JSC	Jenkinsville	
JVW	Jocassee View	
X57A	Johnson Farm, Hartsville	
KMSC	Kings Mountain, Blacksburg	
BG3	Lake Jocassee	
LHS	Liberty Hill	
Y59A	Loris	
MGS	Middleton Gardens	
MKC	Moncks Corner	
MTT	Monetta	
MR01	Monticello Reservoir Site 1	
MR10	Monticello Reservoir Site 10	
MR02	Monticello Reservoir Site 2	
MR03	Monticello Reservoir Site 3	
MR04	Monticello Reservoir Site 4	
MR05	Monticello Reservoir Site 5	
MR06	Monticello Reservoir Site 6	
MR07	Monticello Reservoir Site 7	
MR08	Monticello Reservoir Site 8	
MR09	Monticello Reservoir Site 9	
MMCS	Mount Moriah Church	
ZIN	Mount Zion Church	
NHSC	New Hope	
NHS	North Hampton	
VEW	Oceanview	
OSB	Orangeburg	
OSC	Orangeburg	
PRM	Parsons Mountain	
Y56A	Pelion	
PPS	Pierpont	
PBS	Pigeon Bay	
PBF	Porcher Bluff	
RGRS	Roger Stewart	
ROW	Rowesville	
SGS	Saint George	
Y55A	Saluda	
SRPN	Savannah River	
SRPW	Savannah River	
SRPD	Savannah River	
Y58A	Scranton	
SBK	Seabrook	
SMMS	Six Mile Mountain	
SVS	Slandsville	
SMSC	Smeltzer Mountain	
Z58A	St. Stephen	
SMA	Summerton	
Y57A	Sumter	
C1SC	The Citadel Site 1	
C2SC	The Citadel Site 2	
TWB	Tillmans-Whites Bay	
TRSC	Trident Resrch Ctr	
TRK	Turkey Creek	
VRN	Varnville	
VSC	Varnville	
WSS	West Ashley	
WMS	West Middle School	
X56A	White Oak	
Z56A	Williston	
South Dakota		
AY-SD	Academy	
AY-	Academy	AY-SD
J28A	Allard Ranch, Norris	
RSSD	Black Hills	
F25A	Bowman	
H32A	Carlson Farm, Erwin	
I33A	Coleman	
CO-	Colome	CO-SD
CO-SD	Colome	
G31A	Conde	
J30A	Dallas	
J33A	Davis	
DL-	Dell Rapids	DL-SD
DL-SD	Dell Rapids	
G27A	Dupree	
EBS	Eagle Butte	
J27A	Elkhorn Farm, Martin	
ECSD	EROS Data Center, Sioux Falls	
F29A	Eureka	
H26A	Fairpoint	
G30A	Faulkton	
H25A	Fruitdale	
J31A	Geddes	
F31A	Hecla	
G29A	Hoven	
H27A	Howes	
I32A	Karley and Nick, Howard	
LEA	Lead	
F27A	Lemmon	
F30A	Leola	
F26A	Lodgepole	
G26A	Maurine	
F28A	McLaughlin	
I28A	Midland	
SUSD	Miller	
BRSD	Miller	
H28A	Mission Ridge	
MC-SD	Mitchell	
MC-	Mitchell	MC-SD
G25A	Newell	
I26A	New Underwood	
I30A	Oacoma	
J29A	Okreek	
H29A	Onida	
G28A	Parade	
J32A	Parkston	
H33A	Prehn Over North, Clear Lake	
I27A	Quinn	
RCD	Rapid City	
RG-SD	Redig	
RG-	Redig	RG-SD
I25A	Rochford	
I31A	Royce, Wessington Springs	
SX-	Salem	SX-SD
SX-SD	Salem	
J26A	Sides Ranch, Smithwick	
SY-	Stickney	SY-SD
SY-SD	Stickney	
J25A	Sunshine Ranch, Edgemont	
F32A	Veblen	
I29A	Vivian Onida	
G32A	Webster	
WN-SD	Winner	
WN-	Winner	WN-SD
H31A	Wolsey	
Tennessee		
ANTN	Anderson	
ACTN	Antioch Church	
ARPT	Arp	
ABTN	Auburntown	
ASTN	Avondale Springs	
BCRT	Bacon Ridge	
W49A	Belvidere	
BSPT	Big Springs	
BFMT	Birchfield Mountain	
BHT	Blowhole	
BBTN	Blue Bank Bayou	
BRTN	Brown Mountain	
BKHT	Bunker Hill	
U44B	Burton Farm, Hornbeak	
CA-	Caryville	CA-TN
CA-TN	Caryville	
U48A	Cassie Pea, Portland	
CLTN	Cedars of Lebanon	
CV-	Centerville	CV-TN
CV-TN	Centerville	
CUET	Cent US Eq Cons	
CBHT	Chr Bro Hi School	
CBT	Christianburg	
CHTN	Church Hills	
U47A	Clarksville	
W51A	Cleveland	
CSPT	Cold Springs	
COTN	Columbia	
CRTN	Comb Ridge	
CPCT	Cooper Cave	
CVTN	Covington	
CCRT	Cow Camps Rge	
CS-TN	Crossville	
CS-	Crossville	CS-TN
CGTN	Cumberland Gap	
CPO5	Cumberland Plat.	CPOT
RSCP	Cumberland Plateau	
CPO	Cumberland Plateau	
CPOT	Cumberland Plateau	
CP-SO	Cumberland Plateau Observatory	
DYTN	Dayton	
DCT	Ducktown	
DRTN	Dyersburg	
DY1	Dyersburg	
EBZ	Ebenezer Church	
EDIT	Edith	
ETT	Etowah	
U53A	Fall Branch	
FGTN	Flat Gap	
FLPT	Flippin	
FPST	Four Points	
GLT	Gallatin	
GLAT	Glass	
GRT	Gratio	
GRBT	Greenback	
GBTN	Greenback	
GTTN	Green Top	
HALT	Halls	
HDBT	Hernando Brdge	
W45A	Hickory Valley	
V46A	Holladay	
HOPT	Hopper	
V45A	Humboldt	
HHT	Hurricane Hollow	
JS-	Jackson	JS-TN
JS-TN	Jackson	
U50A	Jamestown	
HPKT	Knoxville	
U51A	La Follette	
LF-TN	La Follette	
LF-	La Follette	LF-TN
DY2	Lassiter	
LTN	Lennox	
LNXT	Lenox	
LE-TN	Lewisburg	
LE-	Lewisburg	LE-TN
LMTN	Little Mountain	
LRKT	Look Rock	
V51A	Loudon	
MX-	Manchester	MX-TN
MX-TN	Manchester	
MVLT	Maryville	
V49A	McMinnville	
MM-	McMinnville	MM-TN
MM-TN	McMinnville	
MPH	Memphis	
MET	Memphis--Engineering Building	
W46A	Michie	
MILT	Milan	
MLNT	Millington	
MFTN	Millsfield	
MIST	Miston	
MOTN	Model	
NKT	Nankipoo	
NATN	Natchez Trace	
NAIN	Natchez Trace	
DY5	Near Lassiter	
U54A	Nelsons Funny Farm, Mountain City	
V47A	Nunnelly	
NAIT	NWS Agricenter	
OKG	Oak Grove	
ORT	Oak Ridge	
OGTN	Old Graveyard	
ONTN	Oneida	
OHTN	Owl Hoot	
PB-	Parsons	
PB-TN	Parsons	
PDTN	Piedmont	
V50A	Pikevile	
W48A	Pulaski	
RALT	Raleigh	
U49A	Red Boiling Springs	
RHT	Red Hill	
RDST	Rhodes College	
RCT	Riceville	
U45A	Rockin P Farm, Martin	
DY4	Samburg	
SHTN	Sandy Hook	
V52A	Sevierville	
SWET	Sewanee	
SWTN	Sewanee	
W44A	Shelby Farms Park, Memphis	
SFTN	Shelby Forest	
SMTN	Short Mountain	
W50A	Signal Mountain	
V48A	Smith Brothers Farm, Spring Hill	
U46A	Springville	
SLTN	Sullivan	
GILT	SW Tenn Gill Cnt	
TZTN	Tazewell	
TLT	Tellico Plains	
TCT	Tennessee City	
U52A	Thorn Hill	
TIPT	Tiptonville	
DY3	Tiptonville	
TSTN	Townsend	
TQTN	Tranquillity	
TKL	Tuckaleechee Caverns	
UGRT	Union Grove	
UTM	University of Tennessee at Martin	
UTMT	University of Tennessee at Martin	
UTMA	University of Tennessee at Martin	
VHTN	Van Hill	
WT-	Wartburg	WT-TN
WT-TN	Wartburg	
WVT	Waverly	
W47A	Westpoint	
WMTN	White Oak Mountain	
HDAR	W Memph W Sta	
WYBT	Wynnburg	
ZZT	Zu Zu	
Texas		
ABTX	Abilene, Hawley	
W29A	Amarillo	
AZ-TX	Amarillo	
AZ-	Amarillo	AZ-TX
AMTX	Amarillo	
433A	Art	
ATX	Austin	
AUS	Austin	
430A	Baggett Ranch, Ozona	
BM-	Balmorhea	BM-TX
BM-TX	Balmorhea	
327A	Balmorhea Ranch, Pecos	
536A	Bastrop	
BUTX	Baylor University	
325A	Bean Ranch, Sierra Blanca	
835A	Beeville	
934A	Benavides	
626A	Big Bend Ranch, Presidio	
628A	Black Gap, Marathon	
534A	Blanco	
Z36A	Blue Ridge	
MT1	Boracho Peak	
MT4	Brite Ranch	
340A	Bronson	
231A	Bronte	
229A	Bryant Ranch, Stanton	
139A	Bunkhouse Ranch, Marshall	
434A	Burnet	
326A	Caldwell Ranch, Toyah	
CGTX	Campo Grande	
128A	Castleberry Farm, Seminole	
439A	Center Grove, Livingston	
337A	Centerville	
V28A	Channing	
833A	Chaparral WMA, Artesia Wells	
CEC	Childress 1	
CNE	Childress 2	
CNO	Childress 3	
CNW	Childress 4	
CSE	Childress 5	
CSW	Childress 6	
CWT	Childress 7	
634A	China Grove, San Antonio	
736A	Circle Diamond K Ranch, Victoria	
234A	Clairette	
X30A	Coker Ranch, Turkey	
232A	Coleman	
Z34A	Collier Ranch, Chico	
CMTX	Cooper Mountain	
224A	Cornudas Mountain, Dell City	
MNTX	Cornudas Mountains	
ETX07	County Road 4760 near Route FM1970, Timpson	
ETX01	County Road 4772, Timpson	
528A	Cox Ranch, Sanderson	
W30A	Crocket Farms Inc., Mclean	
338A	Crockett	
539A	Cross D Ranch, Liberty	

Code	*Station Name*	*Other*
535A	Dale	
DLS	Dallas	
DAL	Dallas	
V27A	Dan Oppiter Farms, Dalhart	
429A	Davenport Ranch, Sheffield	
DNT	Denton	
X28A	Dimmitt	
733A	Divot King Ranch, Dilley	
EF-	Eagle Flat	EF-TX
EF-TX	Eagle Flat	
637A	Eagle Lake	
MT2	Eagle Mountain	
EO2TX	Elmo	
EP-TX	El Paso	
EP-	El Paso	EP-TX
EPT	El Paso	
035A	Encino	
136A	Ennis	
832A	Faith Ranch, Carrizo Springs	
738A	Farr-Stevens Ranch, Sargent	
FMTX	Flower Mountain	
ETX03	FM Road 95, Garrison	
SFTX	Fort Shafter	
FO-	Fort Stockton	FO-TX
FO-TX	Fort Stockton	
FRTX	Fuller Ranch	
GL-	Garland	GL-TX
GL-TX	Garland	
239A	Gary	
GA-TX	Grand Saline	
GA2TX	Grand Saline	
GA3TX	Grand Saline	
GV-TX	Grapevine	
GV-	Grapevine	GV-TX
537A	Green Hill Farm, Brenham	
GR1TX	Grit	
GR2	Grit	GR2TX
GRI*	Grit	GR1TX
GR2TX	Grit	
133A	Hamilton Ranch, Breckenridge	
035Z	Hargill	
538A	Harpers Horsepen, Conroe	
Z32A	Haskell	
427A	Hayter Ranch, Fort Stockton	
034A	Hebbronville	
HE-	Hempstead	HE-TX
HE-TX	Hempstead	
137A	Heron Place, Grans Saline	
Y33A	Hilltop Ranch, Iowa Park	
HKT	Hockley	
HOU	Houston	
HET	Houston--Electro-Tech	
Z29A	Hungry Hill Ranch, Wilson	
339A	Huntington	
425A	Indio Mountain, Van Horn	
Z39A	Irene McRaven, Queen City	
238A	Jacksonville	
435B	Jarrell	
435A	Jarrell	
530A	J-C Ranch, Comstock	
JRTX	Jordan Ranch	
JCT	Junction City	
JU-	Juno	JU-TX
JU-TX	Juno	
236A	Katherine and Luke Keathley, Corsicana	
735A	Kenedy	
KM6	Kermit	
KIE	Kermit	
KIT	Kermit	
KKT	Kermit	
KM3	Kermit	
KM9	Kermit	
KM5	Kermit	
KTX	Kermit	
KTT	Kermit	KIT
KTE	Kermit	
KME	Kermit	
KM2	Kermit	
533A	Kerrville	
428A	Kincaid Ranch, Fort Stockton	
KVTX	Kingsville	
440A	Kirbyville	
LTX	Lajitas	
TXAR	Lajitas Array Beam Reference Point	
TX10	Lajitas Array Site 10	
TX11	Lajitas Array Site 11	
TX02	Lajitas Array Site 2	
TX03	Lajitas Array Site 3	
TX32	Lajitas Array Site 32	
TX04	Lajitas Array Site 4	
TX05	Lajitas Array Site 5	
TX06	Lajitas Array Site 6	
TX07	Lajitas Array Site 7	
TX08	Lajitas Array Site 8	
TX09	Lajitas Array Site 9	
TX31	Lajitas Ar. Site	
TX00	Lajitas Ar. Site	
LTB3	Lajitas B3	TX04
WHTX	Lake Whitney, Meridian	
734A	La Parita Creek, Jourdanton	
LP-	La Pryor	LP-TX
LP-TX	La Pryor	
933A	Laredo	
732A	Laxson Ranch, Crystal City	
635A	Leesville	
334A	Lometa	
LUB	Lubbock	
U28A	Mallet	
MTX	Marathon	
526A	Mary Lane Ranch, Marfa	
138A	Matatall Enterprise, Big Sandy	
MOT3	McDonald Obs.	
MOT2	McDonald Obs.	MT2
MOT4	McDonald Obs.	
MOT1	McDonald Obs.	
MOT	McDonald Observatory	
426A	McDonald Observatory, Fort Davis	
Y28A	McKinney Farm, Littlefield	
432A	Menard	
330A	Mertzon	
MSUEL	Midwestern State University	
MT3	Miller Ranch	
332A	Millersview	
335A	Moody	
324A	Moseley Ranch, Sierra Blanca	
Z38A	Mt. Pleasant	
MSTX	Muleshoe	
NATX	Nacogdoches	
NSLM	New Salem	
936A	North Padre Island, Corpus Christi	
U29A	Oasis Ranch, Spearman	
Z35A	Perchaven, Sanger	
631A	Perdido Creek Ranch, Del Rio	
437A	Phantom Ranch, North Zulch	
RFTA	Plano	
Z37A	Pogue Cattle Company, Sulphur Springs	
Y29A	Porterfield Farm, Petersburg	
737A	Port Lavaca	
PO-TX	Post	
PO-	Post	PO-TX
ETX02	Prairie Street, Timpson	
PRST	Prospect	
Y31A	Rekieta Farm, Paducah	
333A	Richland Springs	
336A	Riesel	
233A	Rising Star	
131A	Roby	
531A	Rocksprings	
532A	Rocksprings	
638A	Rosharon	
ETX06	Route 59 and County Road 4763, Timpson	
ETX04	Route FM415 near Route 87	
Y32A	R-V Farms, Vernon	
633A	Saathoff Ranch, Hondo	
438A	Sam Houston State University, Huntsville	
SA4TX	San Angelo	
331A	San Angelo	
SA4	San Angelo	SA4TX
SA2TX	San Angelo	
SA2	San Angelo	SA2TX
SAT1	San Antonio Texas	
SS-TX	Sanderson	
SS-	Sanderson	SS-TX
Z30A	Sanderson Ranch, Post	
SJ-TX	San Jose	
SJ-	San Jose (USA)	SJ-TX
SM-TX	Seymour	
SM-	Seymour	SM-TX
SK-TX	Shamrock	
SK-	Shamrock	SK-TX
Z31A	Sharp Cattle Ranch, Aspermont	
SB1	Sierra Blanca Array Site 1	
SB2	Sierra Blanca Array Site 2	
SB3	Sierra Blanca Array Site 3	
636A	Smothers Creek Ranch, Hallettsville	
130A	Snyder	
431A	Sonora	
V30A	Spur Ranch, Miami	
Y30A	Stafford Cattle Company, Roaring Springs	
230A	Sterling City	
529A	Stev Forest Ranch, Sanderson	
129A	Stewart Farms, Lamesa	
V29A	Stinnett	
ST1TX	Streeter	
ST2	Streeter	ST2TX
ST4TX	Streeter	
ST2TX	Streeter	
ST1	Streeter	ST1TX
ST4	Streeter	ST4TX
627A	Terlingua Ranch, Terlingua	
U27A	Thompson Grove	
834A	Tilden	
TTX	Tres Cuevas	
Z28A	Tucker Farm, Meadow	
X29A	Tulia	
228A	UT Block 9, Goldsmith	
632A	Uvalde	
W28A	Vega	
135A	Vickery Place, Crowley	
540A	Vidor	
329A	Wagon Wheel Ranch, Midkiff	
436A	Wall Ranch, Gause	
237A	Washetta, Montalba	
Z33A	Whitaker Ranch, Olney	
134A	White-Moore Ranch, Lipan	
WP-TX	Wills Point	
527A	Woodward Ranch, Alpine	
328A	Wristen Ranch, Grandfalls	
ZAV	Zavalia	
CCUT	Cedar City	
EVIN	Evansville	
HAIL	Harrisburg (Southeastern Illinois College)	
LTL	Livingston	
OLIL	Olney	
Utah		
AAU	Alta	
AMF	American Fork	
ANU	Antelope Island	
ARUT	Antelope Range	
ARGU	Argyle Ridge	
BAP	Bailey Peak	
BTU	Barney Top	
P13A	Bates Ranch, Gandy	
BCU	Bear Canyon	
BHUT	Beaver	
BVK	Beaver Lake	
BKU	Beaver Lake Mountains	
BDU	Big Dutch Hollow	
BGU	Big Grassy Mountain	
BIU	Bingham Canyon	
BMUT	Black Mountain	
S17A	Black Ridge (BLM), Bullfrog Basin	
BX-	Blanding	BX-UT
BX-UT	Blanding	
BSUT	Blindstream Canyon, Hanna	
BHU	Blowhard Mountain	
BCE	Book Cliffs East	
BPU	Bountiful Peak	
BCUT	Brigham City	
BYU	Brigham Young University	
BRUT	Bromley	
BBUT	Bumble Bee	
P17A	Butcher Ranch, Price	
CTU	Camp Tracy	
CWU	Camp Williams	
R18A	Canyonlands National Park, Moab	
Q16A	Castle Valley Ranch, Emery	
CVH	Cedar City	
CCU	Cedar City	
S14A	Cedar City	
IAE	Cedar City, Iron County	
CCPU	Cedar City Park	
CVE	Cedar Cove	
CMU	Cedar Mountain	
CPU	Coon Peak	
CFU	Cove Fort	
R19A	Curley Farm, La Sal	
DAU	Daniels Canyon	
DCU	Deer Creek Reservoir	
DBD	Des Bee Dove	
P14A	Drum Mountains (BLM), Topaz	
DWU	Dry Willow Peak	
DCM	Dugout Coal Mine	
DUG	Dugway, Tooele County	
EPU	East Promontory	
ETU	East Traverse Mountains	
ELU	Electric Lake	
EOCU	Emergency Operations Center, State Capitol Campus, Salt Lake City, UT, USA	
EMUT	Emma Park	
Q15A	Fillmore	
FM-	Fillmore	FM-UT
FM-UT	Fillmore	
FSU	Fish Springs	
FGU	Flaming Gorge	
FLA	Flat	
FLU	Fool Peak	
FDU	Ford Ridge	
P16A	Fountain Green	
FPU	Francis Peak	
GRD	Gardner Farm	
MGCU	Grand County Courthouse, Moab, UT	
GMU	Granite Mountain	
N14A	Grayback Hills BLM, Clive	
GZU	Grizzly Peak	
GSUT	Gun Site Peak	
HLJ	Hailstone	
R17A	Hanksville Airport, Hanksville	
HVU	Hansel Valley	
HWUT	Hardware Ranch	
HRUT	Hardware Ranch	HWUT
S19A	Harvey Farm, Monticello	
HEB	Heber	
HMU	Henry Mountain	
O13A	Hicks Ranch, Ibapah	
HAFB	Hill Air Force Base, Hill AFB, UT, USA	
Q19A	Hogan Spring (BLM), Cisco	
HRU	Hogsback Ridge	
HFSU	Holladay Fire Station, Holladay, Utah	
S13A	Holt Ranch, Enterprise	
HONU	Honeyville	
HCU	Horse Canyon	
HTU	Hoyt Peak	
M16A	Huntsville	
HHS	Hurricane	
T14A	Hurricane	
S18A	Hurst Farm, Blanding	
HDU	Hyde Park	
ICU	Indian Springs Canyon	
IMU	Iron Mountain	
R14A	James Farms, Milford	
N19A	John Jarvie Ranch (BLM), Flaming Gorge	
JLU	Jordanelle	
R15A	Junction	
KN-UT	Kanab	
KEUT	Kanab	
KN-	Kanab	KN-UT
KNB	Kanab	
KLJ	Keetly	
KDUT	Kidman Hollow	
LDJ	Lady	
LMUT	Lake Mountain	
LMU	Lake Mountain	
LSU	Lake Shores	
N18A	Larsen Ranch, Manila	
M15A	Larsen Ranch, Promontory	
P15A	Leamington	
LEE	Leeds	
LDS	Leeds	
LEVU	Levan	
LVU	Levan Peak	
LCMT	Little Creek Mountain	
LHUT	Little Humpy Peak	
LTU	Little Mountain	
LOG	Logan	
LBUT	Lower Browns Hole	
LWA	Lower Mag Wash	
LSUT	Lucky Star	
MWA	Mag Wash	
MPU	Maple Canyon	
MVU	Marysvale	
MSU	Marysvale	
MGU	Meadow Creek Golf Course	
T18A	Mexican Hat	
MHD	Mile High Drive	
MNU	Milford North	
O19A	Miners Draw (BLM), Jensen	
MMU	Miners Mountain	
MBUT	Moab	
N17A	Moffit Pass	
MCU	Monte Cristo Peak	
MTUT	Morton Thiokol	
MOUT	Mount Ogden	
MTPU	Mount Pierson	
NAIU	Northern Antelope Island	
NLU	North Lily Mine	
NMUT	North Mineral Mountain	
NOQ	North Oquirrh Mountains	
NSU	North Stansbury	
OGU	Ogden Bay	
R13A	O'Grain Ranch, Modena	
OWUT	Old Woman Plateau	
OPL	Opal Mound	
PST	Pasture Canyon	
PBU	Perry Basin	
PSUT	Pine Spring	
PKCU	Pink Cliffs	
PUU	Piute Reservoir	
PCY	Pole Canyon	
PTU	Portage	
P18A	Preston Nutter Ranch, Sunnyside	
PCU	Price	
PPU	Promontory Point	
Q18A	Rafter H Ranch, Green River	
RMU	Rainbow Monument	
RBU	Red Butte Canyon	
T15A	Red Dirt Ranch, Kanab	
RDMU	Red Mountain	
RSUT	Red Spur Mountain	
N16A	Rees Ranch, Coalville	
PEUT	Richfield	
RVUT	Riverside	
ROA	Roan Cliffs	
O17A	Robinson Place, Fruitland	
O18A	Roosevelt	
RHU	Roosevelt Hot Springs	
RPF	Rose Park Fire Station, Salt Lake City, UT	
RCJ	Ross Creek	
T13A	Saint George	
WDO	Saint George	
SGIAR	Saint George Infrasonic Array Beam Reference Point	
SGI01	Saint George Infrasonic Array Site 1	SGIAR
SGI02	Saint George Infrasonic Array Site 2	
SAU	Saltair	
SLC	Salt Lake City	
SRU	San Rafael Swell	
SCUT	Santa Clara	
SNQU	Santaquin	
SUU	Santaquin Canyon	
Q14A	Sevier Lake (BLM), Delta	
SCU	Sheep Canyon	
M14A	Sheep Mountain BLM, Rosette	
SZCU	Shurtz Canyon	
SNO	Snow College	
AIUT	Southern Antelope Island	
SAIU	Southern Antelope Island	
SPUT	South Promontory Point	
O16A	Springville	
SQU	Squaw Peak	
SBU	Stansbury Island	
N15A	Stansbury Island BLM, Grantsville	
SNU	Stansbury North	
SNUT	Stansbury North	
SGU	Sterling	
SGSU	St. George Fire Station	
SUN	Sunnyside	
SMU	Sunnyside Mine	
R16A	Teasdale	
O15A	The Old Anderson's Place, Rush Valley	
TCRU	Three Creeks Reservoir	
TCVU	Timpanogos Cave	
TCUT	Toone Canyon	
TMUT	Trail Mountain	
UBO	Uinta Basin Array	
CAPU	Utah State Capitol	
VLU	Vernal	
VNL	Vernal	
VN-	Vernal	VN-UT
VN-UT	Vernal	
WW-UT	Wah Wah Mountains	
WW-	Wah Wah Mts	WW-UT
WCO	Washington City	
REUT	Washington Fields	
WBC	Weber Canyon	
WVUT	Wellsville	
S16A	Weppner Ranch, Escalante	
WTU	Western Traverse Mountains	
WMU	West Mountain	
WMUT	West Mountain	
Q13A	Wheeler Ranch, Garrison	
WHU	Wild Horse	
WLD	Wild Horse Canyon	
WLJ	Wildlife	
WCU	Willow Creek	
ZNPU	Zion National Park	
Vermont		
BLVT	Baltimore	
BUR	Burlington	
J61A	Chester	
COV	Colchester	
DVT	Derby	
FLET	Fletcher	
FLE	Fletcher	FLET
HBVT	Hinesburg	
IVT	Ira	
H61A	Lyndonville	
MARL	Marlboro	

Code	Station Name	Other
MDV	Middlebury	
MCVT	Middlebury College	
MGVT	Montgomery	
MPVT	Montpelier	
H60A	Morristown	
NRT	Northfield	
I61A	Oroboro, Fairlee	
I60A	Shoreham	
VT1	Waterbury	
Virginia		
S61A	Accomac	
BV1	Bath County 1	
BV2	Bath County 2	
BV3	Bath County 3	
BV4	Bath County 4	
BI-	Big Stone Gap	BI-VA
BI-VA	Big Stone Gap	
BLA	Blacksburg	
BAV	Blacksburg	
R56A	Bull Pasture Mountain, McDowell	
CVRD	Centerville Road, Mineral	
CVVA	Charlottesville	
CVL	Charlottesville	
CTV	Charlottesville	
CLT	Charlottesville	
CVV	Charlottesville	CVL
CI-	Clintwood	CI-VA
CI-VA	Clintwood	
CNV	Corbin	CBN
CBN	Corbin Fredericksburg Observatory	
IP01	Cuckoo	
CCVA	Cudjo Caverns	
CG-VA	Cumberland Gap	
CG-	Cumberland Gap	CG-VA
S57A	Dark Hollow, Roseland	
T59A	Double "B" Farms	
ER308	Early Rise 308	
ER309	Early Rise 309	
ER310	Early Rise 310	
ER311	Early Rise 311	
ER312	Early Rise 312	
ER313	Early Rise 313	
ER314	Early Rise 314	
ER315	Early Rise 315	
ER316	Early Rise 316	
ER317	Early Rise 317	
ER318	Early Rise 318	
FRV	Farmville	
Q58A	Fox Den Farm, The Plains	
FTV	Front Royal	
GSR	Geological Survey, Reston	
GHV	Goochland	
T58A	Grand View Acres	
IP04	Greensprings	
GD-	Grundy	GD-VA
GD-VA	Grundy	
HBV	Harrisonburg	
IP05	Hopewell Church	
T57A	Hurt	
JSRW	J. Sargeant Reynolds Community College	
KMV	Keen Mountain	
R59A	King George, VA	
LEX	Lexington	
IP03	Louisa	
S59A	Mechanicsville	
R58B	Mineral	
NAV	Narrows	
S56A	Natural Bridge	
NA11	North Anna	
NA2	North Anna	
NA12	North Anna	
NA5	North Anna	
NV1	North Anna 1	
NV2	North Anna 2	
NV3	North Anna 3	
NV4	North Anna 4	
NV5	North Anna 5	
NV6	North Anna 6	
NV7	North Anna 7	
PTRD	Partlow Road	
PBV	Petersburg	
PLVA	Point Lookout	
S58A	Poland Farm, Powhatan	
VWV	Potts Mountain	
ELN	Prospectdale	
T55A	Pulaski	
PUV	Pulaski	
IP07	Quail	
RCRC	Randolf College Riding Center, Lynchburg	
R58A	Rapidan	
T56A	Rocky Mt	
SU-VA	Schuyler	
SU-	Schuyler	SU-VA
SPFD	Spotsylvania Fire Department	
SPRD	Spring Road, Mineral	
R57A	Stanardsville	
Q57A	Strasburg	
T60A	Surry	
T54A	Tazewell	
URVA	University of Richmond	
VBV	Virginia Beach	
VWCC	Virginia Western Community College	
WMV	Walker Mountain	
S60A	Water View	
T53A	Wise	
IP06	Yanceyville	
Washington		
ALCT	Alcott Elementary School	
ALKI	Alki Wastewater Plant ANSS-SMO	
APW	Alpha Peak	
ALD	Alter Ridge	
F04A	Amboy	
ATES	Arlington Trafton Elementary School	
ACES	Army Corps of Engineers Seattle ANSS	
APM	Augspurger Mountain	
BDG	Badger Mountain	
BABE	Bainbridge School	
BLH	Bald Hill	
BFW	Baw Faw Mountain	
BLL	Bellingham	
RBEN	Benson Hill Elementary School	
BENWA	Benson Ranch	
BVW	Beverly	
BLTW	Bickleton	
BRVW	Black Rock Valley	
BW-	Blewett	BW-WA
BW-WA	Blewett	
BLN	Blyn Mountain	
BEVT	Boeing Everett	
BSFP	Boeing Fire Protection	
BMW	Boistfort Mountain	
C04A	Brinnon	
BRKS	Brookside Elementary School	
B05A	Bryant	
MURR	Camp Murray	
CPW	Capitol Peak	
CC-WA	Cascade Tunnel	
CDFW	Cedar Flats	
CDMR	Cedar Moraine	
CBW	Chelan Butte	
CBSW	Chelan Butte South	
B10A	Chitwood Farm, Usk	
C09A	Chrisman Ranch, Davenport	
E04D	Cinebar	
D06A	Cle Elum	
KDKW	Coast Env Seattle	
B201	Coldwater, Mount Saint Helens	
CLW	Colville	
B08A	Colville Reservation, Omak	
CE-WA	Concrete	
CE-	Concrete	CE-WA
CNL	Connel	
CRF	Corfu	
CWZ	Cowlitz River	
CZM	Crazy Man Mountain	
CSEN	Crystal Springs Elementary School	
CMW	Cultus Mountains	
A09A	Danville	
DVW	Davenport	
DPW	Davenport	
E08A	Dider Farm, Eltopia	
D04A	Dobbs Creek Ranch, Lacey	
DHW	Dyer Hill	
DHW2	Dyer Hill 2	
ESD	East Dome	
EARN	East Ridge Elementary School	
ELW	Echo Lake	
D03D	Eldon	
ERK	Elk Rock	
EL-	Ellensburg	EL-WA
EBG	Ellensburg	
EL-WA	Ellensburg	
ET3	Eltopia	
ET2	Eltopia	
ETP	Eltopia	
ETW	Entiat	
D05A	Enumclaw	
EPH	Ephrata	
EPW	Ephrata	
EUW	Eureka	
EVCC	Everett College ANSS-SMO	
EVGW	Everett Gateway Middle School ANSS-SMO	
EGRN	Evergreen College	
FTW	Fairmont	
FPW	Fields Point	
FINN	Finn Hill Junior High School	
FL2	Flat Top 2	
FHE	Frenchman Hills East	
GBB	Gable Butte	
GBL	Gable Mountain	
GHW	Garrison Hill	
GTWN	Georgetown Playfield ANSS-SMO	
GLK	Glacier Lake	
GC-	Glacier Peak	GC-WA
GPW	Glacier Peak	
GC-WA	Glacier Peak	
F06A	Goldendale	
GMW	Gold Mountain	
GCW	Grand Coulee	
GSM	Grass Mountain	
MGOO	Greenacres	
GNW	Green Mountain	
GRCC	Green River Community College BBO	
GULW	Guler Mountain	
HAN	Hanford	
HAWA	Hanford	
HGB	Hanford Gable Butte	
HART	Harbor Island ANSS-SMO	
HTW	Haystack Lookout	
RHAZ	Hazelwood Elementary School	
C08A	Higginbotham Farm, Almira	
HICC	Highline Community College ANSS-SMO	
HOLY	Holy Rosary School	
HDW	Hoodsport	
HHH	Horse Heaven Hills	
HSW	Hot Spot	
HUBA	Hudson Bay High School ANSS-SMO	
NIHS	Ingelmoor High School	
JCW	Jim Creek	
SSS1	John Stanford Center Downhole Anss-SM	
D09A	Jones Farm, Ritzville	
JRO	Jston Ridge Obs	
JLK	June Lake	
B941	Kapowsin	
KE-WA	Kennewick	
KE-	Kennewick	KE-WA
KNEL	Kent Elementary ANSS-SMO	
KIMB	Kimball Elementary School	
TKCO	King County	
KIMR	Kitsap County Moderate Risk Waste Facility	
KINR	Kitsap County North Road Shed	
KITP	Kitsap County Wastewater Treatment Plant	
KOSW	Kosmos	
LMW	Ladd Mountain	
D04D	Lakebay	
D04E	Lakebay	
LVP	Lakeview Peak	
LW-WA	Lake Wenatchee	
LW-	Lake Wenatchee	LW-WA
LSW	Landslide	
LAWT	Lawton Elementary School	
C06D	Leavenworth	
E03A	Lebam	
A04A	Legoe Bay, Lummi Island	
LEOT	Leota Junior High School	
LTY	Liberty	
LOCW	Locke Island	
LON	Longmire	
LCW	Lucas Creek	
A04D	Lummi Island	
LYW	Lyman	
LY-WA	Lynden	
LYNC	Lynnwood City Hall ANSS-SMO	
MNWA	Manchester	
A05A	Maple Falls	
MPL	Maple valley SMO-IDS24	
B06A	Marblemount	
MARYW	Marymoor Park	
MAY	Mayfield	
MJ2	May Junction 2	
MEW	McNeil Island	
MEAN	Meany Midle School ANSS-SMO	
MEGW	Megler CREST BB SMO	
MDW	Midway	
MBPA	Monroe Substation	
B017	Montesano	
ASR	Mount Adams--Stagman Ridge	
MBW	Mount Baker	
MU-WA	Mount Baker	
MCW	Mount Constitution	
ERW	Mount Erie	
FMW	Mount Fremont	
MTMW	Mount Mitchell	
RCM	Mount Rainier--Camp Muir	
RCS	Mount Rainier--Camp Schurman	
REMR	Mount Rainier--Emerald Ridge	
RSU	Mount Rainier--Summit	
RVC	Mount Rainier--Voight Creek	
SHW	Mount Saint Helens	
VALT	Mount Saint Helens Crater	
MSH11	Mount St. Helen	
MSH21	Mount St. Helen	
MSH31	Mount St. Helen	
MXC	Moxie City	
MU-	Mt Baker	MU-WA
E10A	Myers Farm, Uniontown	
NAC	Naches	
NBW	Neah Bay	
NLWA	Neilton Lookout	
NLW	Nelson Butte	
GL2	New Goldendale	
NEW	Newport	
I56US	NEWPORT INFRASONIC ARRAY REFERENCE POINT	
NOWS	NOAA--Sand Point	
A10A	Northport	
OHW	Oak Harbor	
OBSR	Observation Rock	
OCWA	Octopus Mountain	
OOW	Octopus West	
ODS	Odessa	
OD2	Odessa Site #2	
OCP	Olym-Cheeka Pk	
OFR	Olym-F Res Ctr	
OLW	Olympia	
OPC	Olympic Penn College CREST BB SMO	
OBC	Olympics--Bonidu Creek	
OBH	Olympics--Burnt Hill	
OFK	Olympics--Forks	
OLQ	Olympics--Lake Quinault	
ONR	Olympics--North River	
ON2	Olympics--North River	
OSR	Olympics--Salmon Ridge	
OSD	Olympics--Snow Dome	
OSP	Olympics--Sooes Peak	
OTR	Olympics--Tyee Ridge	
OMW	Omak	
E04A	Onalaska	
OT2	Othello	
OTH	Othello	
OT3	Othello 3	
PANH	Panhandle Gap, Mount Rainier	
PATW	Paterson	
PAT2	Paterson 2	
F07A	Phinny Hill Vineyards, Prosser	
PIER	Pier 30 Seattle	
PCEP	Pierce County East Precinct	
PCFR	Pierce County Firing Range	
PCMD	Pierce County Mountain Detachment	
PNLK	Pine Lake Middle School	
PH-WA	Pomeroy	
B04A	Port Angeles	
PGW	Port Gamble	
PRW	Prosser	
PSNS	PSNS Bremerton SMO	
PAYL	Puyallup School ANSS-SMO	
B203	Quarry, Mount Saint Helens	
QAW	Queen Anne	
B013	Quilcene	
C03A	Quillayute Airport, Forks	
D07A	Quincy	
RAFT	RAFT	
RAIO	Rainier	
E05A	Randle	
RWW	Ranney Well	
RSW	Rattlesnake Hills	
RATT	Rattlesnake Lake	
RMW	Rattlesnake Mountain	
RAW	Raver	
B019	Raymond	
REDWA	Red Mountain	
REMW	Rembrandt	
B09A	Rice	
RCW	Richland	
RRHS	Rochester High School	
RPW	Rockport	
RPK	Roosevelt	
RVW	Rose Valley	
ROSS	Ross	
RC1	Royal City	
SDL	Saddle Mountain	
SAW	Saint Andrews	
P403	Sandy Floe Quarry	
SEA	Seattle	
STT	Seattle	
SEND	SEND	
SEPW	September Lobe	
SQM	Sequim	
SPW	Seward Park	
SP2	Seward Park 2	
SCW	Sherman Crater--Mount Baker	
SCCW	Shoreline CC	
SHUK	Shuksan-Mt. Baker Ski Area	
SBES	Silver Beach Elementary School	
SVOH	Skagit Valley Community College ANSS SMO	
SYR	Smyrna	
SNIWA	Snively Ranch	
SOSW	Source of Smith Creek	
SMW	South Mountain	
HSR	South Ridge	
SWFL	Southwest Flank Mount Saint Helens	
SWID	South Whidbey SD ANSS-SMO	
C10A	Spilker Farm, Colbert	
SPN5	Spine 5 MSH Spider	
SPO	Spokane	
SNIO	Spokane Nat. Inst. Occ. Safety SMO	
SFER	Spokane Schools, Ferris High School ANSS-SMO	
SHLY	Spokane Temp K2 (Swanson)	
STW	Striped Peak	
STD	Studebaker Ridge	
BOLM	Sugar Bowl	
SLFW	Sugar Loaf	
SMNR	Sumner High School ANSS-SMO	
E07A	Sunnyside	
TBM	Table Mountain	
TBPA	Tacoma Substation	
C06A	Tall Timber Ranch, Leavenworth	
TWW	Teanaway	
C05A	Tolt Reservoir	
TTW	Tolt Reservoir	
TK-	Tonasket	TK-WA
TK-WA	Tonasket	
TR-WA	Toppenish Ridge	
TRW	Toppenish Ridge	
TDL	Tradedollar Lake	
TUM	Tumwater	
A08A	Turner Farm, Oroville	
SVTR	Two Rivers School, Snoqualmie Valley	
UPS	University of Puget Sound	
UWFH	University of Washington Friday Harbor	
VTG	Vantage	
VT2	Vantage 2	
VVHS	Vashon High School SMO	
D10A	Wagner Farm, Oakesdale	
WAH	Wahluke	
WAH2	Wahluke Slope	
WWHS	Walla Walla High School ANSS SMO	
WGW	Wallila Gap	
WG3	Wallula Gap	
WG2	Wallula Gap	
WRD	Warden	
H2OWA	Water	
C07A	Waterville	
WTV	Waterville	
WNS	Wenas	
WNW	Wenatchee	
WEN	Wenatchee	WNW
WRW	Wenatchee Ridge	
WBL	White Bluff	
WPW	White Pass	
F05D	White Salmon	
F05A	White Salmon	
WISC	Wilburton Instructional Services Center	
WBW	Wilson Butte	
B202	Windy Ridge, Mt. St. Helens	
B07A	Winthrop	
WISH	Wishkah	
D03A	Wishkah Elem. School, Wishkah	
D08A	Wollman Farm, Schrag	
WIW	Wooded Island	
E09A	Wood Farm, Starbuck	
YA2	Yakima	
YAKW	Yakima	
E06A	Yakima	
YA-	Yakima	YA-WA
YA-WA	Yakima	
YPT	Yellepit	
YEL	Yellow Rock	

West Virginia
AB- Amboy AB-WV
AB-WV Amboy
BL-WV Beckley
BL- Beckley BL-WV
Q55A Buckhannon
BZ-WV Buckhannon
BZ- Buckhannon BZ-WV
P54A Burton
Q54A Coxs Mills
CX- Craigsville CX-WV
CX-WV Craigsville
P56A Dayton Farm, Ripley
S54A Dingess, Beckley
ER306 Early Rise 306
ER307 Early Rise 307
FWV Forest Hill
FN- Franklin FN-WV
FN-WV Franklin
GBV Green Bank
HWV Hinton
P57A Homestead Farm, Martinsburg
R53A Hurricane
Q53A Leroy
S55A Lewisburg
R55A Marlinton
MCWV Mont Chateau
MRG Morgantown
PX- Philippi PX-WV
PX-WV Philippi
PE-WV Pineville
PE- Pineville PE-WV
PWV Princeton
RN-WV Rainelle
RN- Rainelle RN-WV
P55A Reedsville
Q56A Snyder Ridge, Maysville
R54A Victor
S53A Williamson
Wisconsin
G41A Antigo
AO- Argonne AO-WS
AO-WS Argonne
I41A Arkdale
H39A Augusta
AR- Aurora AR-WS
AR-WS Aurora
BA- Baldwin BA-WS
BA-WS Baldwin
K43A Burlington
H40A Chili
CF-WS Colfax
CF- Colfax CF-WS
J42A Columbus
COWI Conover
CN-WS Cornell
CN- Cornell CN-WS
I42A Draeger Farm, Ripon
F37A Hinrichs Farm, Grantsburg
G39A Holcombe
JFWS Jewell Farm
H41A Junction City
I43A Langenfeld Brothers Farm, Elkhart Lake
J41A Loganville
F39A Loretta
WI03 Lunz Road, Clintonville
MDS Madison
H38A Maiden Rock
F42A Maple Grove Farm, Niagara
WI01 McKinley Avenue, Clintonville
MF-WS Medford
MF- Medford MF-WS
E39A Mellen
MLW Milwaukee
G42A Mountain
J43A Natural Harvest Farm, Hartford
NG- Niagara NG-WS
NG-WS Niagara
I40A Norwalk
F40A Park Falls
F38A Pierce - Schroeder Farm, Trego
K42A Prairie Point, Evansville
WI02 Reinke Road, Clintonville
G40A Rib Lake
RL- Rib Lake RL-WS
RL-WS Rib Lake
RLW Rice Lake
G38A Ridgeland
WI04 River Road, Clintonville
H42A Shiocton
K41A Shullsburg
J40A Soldiers Grove
E38A The Farm, Brule
F41A Three Lakes
TM- Tomahawk TM-WS
TM-WS Tomahawk
UWM University of Wisconsin at Milwaukee
H43A Windswept, Luxemburg
Wyoming
I22A 9 Mile Ranch, Kaycee
K19A Absolon Red Butte, Lander
K21A Alcova
ALPW Alpine
K24A Anderson Ranch, Keeline
ANGW Angle Mountain
AVOW Apres Vouz Peak
BEAW Beaver Mountain
YPBE Bechler
H21A Big Horn, Sheridan
I21A Big Trails, Ten Sleep
BDW Boulder
PD06 Boulder Array BW06
BW06 Boulder Array Site 6
K23A Bowen Ranch, Douglas
YPBR Bridge Bay
J17A Brown Place, Jackson
CJW Canyon Junction
YPCJ Canyon Junction
K22A Casper
M22A Cedar Creek Ranch, Saratoga
M24A Cheyenne
CY-WY Cheyenne
CY- Cheyenne CY-WY
H23A Clabaugh Cattle Company, Gillette
H22A Clearmont
L17A Cokeville
COLW Colter Canyon
J19A Crowheart
I18A Diamond G Ranch, Dubois
J23A Dilts Ranch, Bill
H24A Dirks Ranch, Alva
J24A Dixon Ranch, Lance Creek
YPEE East Entrance
L22A Ellis Ranch, Medicine Bow
L19A Farson
FLWY Flagg Ranch
L18A Fontenelle, Green River
FXWY Fox Creek
K17A Gardner Place, Afton
L23A Garrett
TARW Grand Targhee Resort
H17A Grant Village
YPGV Grant Village
H20A Greybull
HK- Hawk Springs HK-WY
HK-WY Hawk Springs
HAYW Haystack Fork
YHH Holmes Hill
YPHS Hot Springs Basin
IMW Indian Meadow
JLDW Jackson Lake Dam
YJC Joseph's Coat
KSWY Kelly School
J18A Kendall Valley, Cora
I24A Kuemmerle Ranch, Upton
LKWY Lake
YPLB Lake Butte
YPLA Lake Butte
YPLK Lake Junction
M23A Laramie
LAR Laramie
YLT Little Thumb Creek
LOHW Long Hollow
M18A Lyman
J21A Lysite
MJW Madison Junction
YMR Madison River
MHS Mammoth Hot Springs
YMV Mammoth Vault
YMC Maple Creek
YML Mary Lake
YPML Mary Lake
I23A Meade Ranch, Gillette
I19A Meeteetse
J22A Midwest
YMP Mirror Lake Plateau
MOOW Moose Ponds
YMS Mount Sheridan
MVW Mud Volcano
YNB Natural Bridge
NJW Norris Junction
YNR Norris Junction
YPOF Old Faithful
YFT Old Faithful
PACW Pacific Creek
M25A Palm-Egli Farm, Albin
YPPC Pelican Cone
I17A Pilgrim Ck.
PHWY Pilot Hill
PHWY1 Pilot Hill -- Preliminary Site
PI-WY Pinedale
PI2 Pinedale
PI3 Pinedale
PI6 Pinedale
PI2WY Pinedale
PI4 Pinedale
PI7 Pinedale
PIN Pinedale
PI- Pinedale PI-WY
PI5 Pinedale
PI1 Pinedale
PDAR Pinedale Array Beam Ref. Point
PD01 Pinedale Array Site 1
PD10 Pinedale Array Site 10
PD11 Pinedale Array Site 11
PD12 Pinedale Array Site 12
PD13 Pinedale Array Site 13
PD02 Pinedale Array Site 2
PD03 Pinedale Array Site 3
PD31 Pinedale Array Site 31 PDAR
PD32 Pinedale Array Site 32
PD04 Pinedale Array Site 4
PD05 Pinedale Array Site 5
PD07 Pinedale Array Site 7
PD08 Pinedale Array Site 8
PD09 Pinedale Array Site 9
PDIAR Pinedale Infrasonic Array Beam Reference Point
YPP Pitchstone Plateau
PM-WY Pole Mountain
PMW Pole Mountain
PM- Pole Mt. PM-WY
H19A Powell
YPM Purple Mountain
RAMW Rammel Mountain
L21A Rawlins
RWWY Rawlins
REDW Red Top Meadow
M19A Rock Springs
M17A Scullys Gap (BLM), Evanston
M21A Separation Peak, Rawlins
H18A Shoshone NF, Cody
J20A Shoshoni
SNOW Snow King Mountain
YPSB Soda Butte
YPSE South Entrance
STEW Steamboat Mountain
M20A Sweetwater, Wamsutter
TPAW Teton Pass
YTP The Promontory
TL-WY Thermopolis
K18A Toltan Ranch, Big Piney
YTC Trail Creek
TRXW Triangle-X Ranch
YPTB Twin Buttes
YUF Upper Falls
WUWY Wally Ulrich
L20A Wamsutter
WTW West Thumb
L24A Wheatland
I20A Worland
WYO Wyoming Array
WY0 Wyoming Array WYO
YNM Yellowstone Norris Museum
K20A Yellowstone Ranch, Lander

PACIFIC OCEAN/OCEANIA

Cook Islands
MNHK Manihiki
NUE Niue
RAR Rarotonga
TG- Tongareva I. TG-IS
TG-IS Tongareva Island

Fiji
BQA Beqa
MBU Bua
NDE Delaikoro
NGA Galoa
KDV Kandavu Island
KRO Koro
LBSA Labasa
MGO Magodro
MSV Monasavu
NAF Naboro
NDF Nadi
NMS Namosi
NAS Nasaqa
NHF Nausori Highlands
GAU Ngau Island
MSVF Nonsavu
OVA Ovalau
SGE South Ridge
SVA Suva
SUV Suva
TVI Taveuni
UDU Undu Point
NMF Viti Levu
VDW Vunidawa
VUN Vunikawai
YSA Yasawairara

France
Gambier Islands
RKT Rikitea

French Polynesia
Moorea
AFR Afareaitu
Society Islands
MEH Mehetia
TIAR Tiarei
Tahiti
PAE Paea
PPTF Pamatai, Papeete
PPT Papeete
THT Papeete
PPT2 Papeete2
PPN Papenoo
TAH Tahiti
I24FR TAHITI-TARAVAO INFRASONIC ARRAY REFERENCE POINT
TVO Taravao
Tuamotu
AMN Amanu
FRT Faratahi
NAE Nake (Tuamotu)
OTP Otepa
PMO Pomariorio
PMOR Pomariorio Reef
RUV Rauvai
TPT Tiputa
VAH Vaihoa
Tubuai
TBI Tubuai

Kiribati
XMAS Kiritimati
Kiribati (Gilbert Islands)
TARA Tarawa
Line Islands
FAN Fanning Island
JN- Johnston I. JN-IS
PR- Palmyra I. PR-IS
PR-IS Palmyra Island
Phoenix Islands
KNTN Kanton

Mariana Islands
AGRI Agrihan Island
ALMG Alamagan
ANAT Anatahan
ANA2 Anatahan
AFOK Anatahan S. Rim
GUAM Guam
GUA Guam
GUMO Guam
NMCC Northern Marianas College
PAGN Pagan
PAGV Pagan Volcano
PJG Potts Junction
SAPN Saipan
SARN Sarigan

Marquesas archipelago
I21FR MARQUESAS ISLAND INFRASONIC ARRAY REFERENCE POINT
TAOE Nuku Hiva Island

Marshall Islands
EW-IS Eniwetok
EW- Eniwetok EW-IS
KWAJ Kwajalein Atoll

Micronesia
Caroline Islands
PATS Pohnpei
TRU Truk
New Caledonia
Loyalty Islands
LIFNC LIFOU
MARNC Mare, Loyalty Islands, New Caledonia
OUA Ouanaham
KOU Koumac
KOUNC Koumac, New Caledonia
YATNC Mamie plateau, Yate, New Caledonia
PLUM Mont Dore
DZM Mont Dzumac
MVNO Noumea
NOC Noumea
LASL Noumea
NOU Noumea
ONTRN Noumea
NORM Noumea
OUENC Ouen Island, New Caledonia
ONTNC Ouen Toro
PINNC Pines Island, New Caledonia
NOUC Port Laguerre
I22FR PORTLAGUERRE INFRASONIC ARRAY REFERENCE POINT
BAYA Yate Dam

North Pacific Ocean
Guatemala Basin
GB02 Guatemala Basin O.B.S. 2
GB03 Guatemala Basin O.B.S. 3
GB04 Guatemala Basin O.B.S. 4
GB05 Guatemala Basin O.B.S. 5
GB06 Guatemala Basin O.B.S. 6
GB07 Guatemala Basin O.B.S. 7
GB08 Guatemala Basin O.B.S. 8
GB01 Guatemala OBS 1
H2O Hawaii-2 Observatory

Palau
Caroline Islands
KOR Koror
PLA Palau
PALU Palau
I39PW PALAU INFRASONIC ARRAY REFERENCE POINT

Pitcairn Island
PTCN Pitcairn Island

Samoa Islands
AFI Afiamalu
API Apia

Tonga
NIU Niumate
NUK Nuku'alofa
TEK Teekin
TNGT Tongatapu
VAVA Vava'u

Tuvalu (Ellice Islands)
FUNA Funafuti

U.S.A.
Johnston Island
JOHN Johnston Island
JN-IS Johnston Island
Midway Islands
MDY Midway
MIDW Midway
Wake Island
WKE Wake
WAKE Wake Island
H11N1 WAKE ISLAND Hydroacoustic Site N1
H11N2 WAKE ISLAND Hydroacoustic Site N2
H11N3 WAKE ISLAND Hydroacoustic Site N3
H11S1 WAKE ISLAND Hydroacoustic Site S1
H11S2 WAKE ISLAND Hydroacoustic Site S2
H11S3 WAKE ISLAND Hydroacoustic Site S3

Vanuatu
BKM Butte a Klehm
DVP Devils Point
EME Emae
EPI Epi
INH Isangel
LMP Lamap
LNR Lonorore
LUG Luganville
MBV Mont Bernier
PVC Port Vila
RTV Rentapao
SANVU Saraoutou
SWB Southwest Bay
TANV Tanna
VLN Vanua Lava

SOUTH AMERICA

Amazonas
TBTG Tabatinga, AM

Argentina
TRQA Tornquist
Buenos Aires
BAA Buenos Aires
CCR Chacarita
LPA La Plata
MGBA MARTIN GARCIA
VBA Sierra Ventana
Catamarca
ANL Andalgala
CYA Choya
Chubut

Code	Station Name	Other
TRWA	Trelew	
Cordoba		
BOS	Bosque Alegre	
PIL	Pilar	
SUCO	SUCO	
TCA	Tanti	
Jujuy		
HJA	Humahuaca	
JUJ	Jujuy	
LQA	La Quiaca	
ASTB	Santa Barbara	
YJA	Yavi	
AZAP	Zapla	
La Rioja		
AANI	Anillaco	
ACLC	CERRO LA CRUZ	
ACHE	Chepes	
CCT	Chilecito	
AGUA	GUANDACOL	
RTPR	Patquia	
APLL	PUNTA DE LOS LLANOS	
AVFE	Valle Fertil	
VCA	Vinchina	
Mendoza		
AAGR	Agrelo	
ARCO	CERRO ARCO	
COIS	El Sosneado	
PUMA	Malargue	
EDS3	Malargue	
MAA	Manantiales	
MDZ	Mendoza	
MEN	Mendoza	
ASAL	Salagasta	
RFA	San Rafael	
UTNM	Universidad Technlogica Nacional Mendoza	
AUSP	Uspallata	
AVIZ	Vizcacheras	
Misiones		
EDMA	Eldorado	
Neuquen		
CANA	Caviahue	
GO06	Curarrehue	
Patagonia		
COYC	Coyhaique	
SCA	Santa Cruz	
Rio Negro		
CIP	Cipolletti	
PLCA	Paso Flores	
Salta		
AASA	Agas	
FSA	Cafayete	
AQCC	Dique - Cabra Corral	
AERF	Escuela - Rosario de la Frontera	
AIPV	Ipv	
ALOL	LOMAS DE OLMEDO	
ALUM	Lumbreras	
SLT	Salta	
AHLV	Sanatorio - la Vina	
SLA	San Lorenzo	
TSA	Tranquitos	
San Juan		
RTBS	Barreal	
RTCB	Cerro Blanco	
BCO	Cerro Blanco	RTCB
ACCO	Cerro Coronel	
CEN	Cerronegro	
VAA	Cerro Valdivia	RTCV
RTCV	Cerro Valdivia	
RTLL	Cerro Villicun	
CFAA	Coronel Fontana	
CFA	Coronel Fontana	
ACDV	Cuesta del Viento	
HLN	Hualilan	
RTLS	Leoncito	
LEO	Leoncito	
AMAR	Marayes	
RTMQ	Marquesado	
AMOG	MOGNA	
AMLC	Mogote Corralitos	
PPA	Pie de Palo	
AROD	Rodeo	
RTRS	Rodeo	
SJA	San Juan	
ZON	Zonda	
San Luis		
ACAN	Cantantal	
MRA	San Martin	
Santa Fe		
HSFA	Helvecia	
Santiago del Estero		
SDE	Santiago Estero	TPA
TPA	Tala Pozo	
Tierra del Fuego		
DSPA	Despedida	
TRVA	Ter de Rio Valdez	
USHU	Ushuaia	
USHA	Ushuaia	
I02AR	USHUAIA INFRASONIC ARRAY REFERENCE POINT	
Tucuman		
AHML	Horco Molle	
TCM	Tucuman	
Arica y Parinacota		
AP01	Chacalluta	
Atacama		
AC05	El Transito	
AC04	Llanos de Challe	
AC02	Maricunga	
AC01	Pan de Azucar	
Bio-Bio		
BI04	Isla Mocha	
LAJA	Laja	
BI02	San Fabiˆ¡n de Alico	
BI03	Tigo	
Bolivia		
COLL	Andarivi	
BS06	Camiri	
BB05	Carapari	
BB07	Casarave	
CNCB	Chanca	
CHIT	Chita	
CHUQ	Chuquichambi	
BS01	CO. Balcˆ‡n	
CCH	Cochabamba	
COLO	COLO	
BS10	CO. Tuti	
CRISS	CRISS	
CRUZ	CRUZ	
BS05	Cuyupaya	
DSG	Desaguadero	
DOOR	DOOR	
HIZO	HIZO	
BS09	Huarina	
ITIT	Ipitacuapi	
BB02	La Guardia	
LAJO	La Joya	
LZ-	La Paz	LZ-BV
LPAZ	La Paz	
LZ-BV	La Paz	
LPB	La Paz	
BBOB	La Paz, Banderani	
BBOE	La Paz, Chanca	
BBOD	La Paz, Gloria	
BBOJ	La Paz, Jacaque	
I08BO	LAS PENAS INFRASONIC ARRAY REFERENCE POINT	
LIRI	LIRI	
MOCB	Mochara	
BS03	Mojotorillo	
BB01	Montecillos	
PACHH	PACH	
BS02	Patallajta	
PNS	Penas	
PICHH	PICH	
POOP	Poopo	
BB08	Puerto Suarez	
RAUL	RAUL	
RTA	Riberalta	
ROSL	ROSL	
SALII	SALI	
SMB	Samaipata	
LPZ	San Calixto	
BS07	San Felipe	
SIV	San Ignacio	
BB03	San Joaquˆ›n	
SCHO	SCHO	
SICA	Sicasica	
SCS	Sicasica	
SUC	Sucre	
TACA	TACA	
BB04	Tambo Quemado	
TRJ	Tarija	
BATO	Ticaya	
TPZ	Tupiza	
UYUN	Uyuni	
BS08	Valle Grande	
BS04	Villa Nueva	
BB06	Yocalla	
YUNZ	YUNZ	
ZLP	Zongo (La Paz)	ZOBO
ZOBO	Zongo (La Paz)	
Brazil		
Acre		
CZSB	Cruzeiro do Sul	
RIOB	Rio Branco	
Alagoas		
NBAN	Anadia - AL	
NVLB	Novo Lino, Alagoas, Brazil	
XIN	Xingo	
Bahia		
NBCP0	Cabaceiras do Paraguassu - BA	
NBCP	Cabaceiras do Paraguassu - BA	
NBIT	Itapeh - BA	
PDCR	Pedra do Cavalo	
NBPN	Ponto Novo - BA	
SDBA	SAO DESIDERIO	
SOB4	Sobradinho	
SOB2	Sobradinho	
SOB	Sobradinho	
SOB1	Sobradinho	
SOB3	Sobradinho	
AREB	Areado	
BOAV	Boa Vista	
CMPB	Campos	
DIAM	Diamantina, MG	
FNDO	Fernando de Noronha	
MACA	Manacapuru-AM	
NATB	Natividade	
PTGA	Pitinga	
POPB	Porto Primavera	
SPB	Sao Paulo	
BAUB	UHE Balbina	
Ceara		
NBCL	Cascavel-CE	
FOR1	Fortaleza - CE	
CS6B	Jaguaretama	
NBMO	Morrinhos-CE	
NBMA	Muriti-CE	
OCBR	Ocara	
ET03	Palhano	
NBPB	Pedra_Branca-CE	
SBBR	Sobral	
Distrito Federal		
BAE	Brasilia	
BDFB	Brasilia	
BCS*	Brasilia Array	
BAO	Brasilia Array Centre Point	
BAE1	Brasilia Array Site E1	
BAE2	Brasilia Array Site E2	
BAE3	Brasilia Array Site E3	
BAE4	Brasilia Array Site E4	
BAE5	Brasilia Array Site E5	
BAEE	Brasilia Array Site EE	
BAS1	Brasilia Array Site S1	
BAS2	Brasilia Array Site S2	
BAS3	Brasilia Array Site S3	
BAS4	Brasilia Array Site S4	
BAS5	Brasilia Array Site S5	
BASE	Brasilia Array Site SE	
BAW1	Brasilia Array Site W1	
BAW2	Brasilia Array Site W2	
BAW3	Brasilia Array Site W3	
BAW4	Brasilia Array Site W4	
BAWE	Brasilia Array Site WE	
I09BR	BRASILIA INFRASONIC ARRAY REFERENCE POINT	
BDF	Brasilia (W)	
Espirito Santo		
BSFB	Barra de Sao Francisco	
CAM3	Guarapari	
ALF01	Guarapari-ES	
RIB01	Linhares ES	
Goias		
COR2	Caldas Novas	
CAN3	Cana Brava	
IPMB	Ipameri, GO	
JATB	Jatai	
RET9	Novo Planalto, GO, Brazil	
RET8	Sˆ£o Miguel do Araguaia, GO, Brazil	
SSV2	Sao Salvador	
SFA1	Serra Facao	
BAT2	UHE Batalha	
CAN1	UHE Cana Brava	
Maranhao		
ROSB	Rosˆ¡rio	
BESB	Sao Joao Dos Patos	
PAL2	UHE Estreito - MA/TO	
Mato Grosso		
AQDB	Aquidauana	
ARAG	Araguaiana, MT - Brazil	
CAMA	Camapuan	
CDSB	Chapadao Do Sul	
CLDB	Colider	
COXM	Coxim-MS Brazil	
FRNC1	Faz. Rancharia - MS	
MSB	Manso	
NVXV	Nova Xavantina-MT	
PRNT	Paranatinga-MT	
PP1B	Ponte de Pedra	
PTLB	Pontes e Lacerda, MT	
PDRB	Porto dos Gaˆ™chos, MT	
PTMB	Porto Murtinho	
RVMB	Rio Verde do Mato Grosso - MS	
SALV	Santo Antonio do Leverger, MT	
SNDB	Serra Nova Dourada	
Minas Gerais		
AGVB	Aqua Vermelha	
ATDB	Astolofo Dutra	
BARB	Barbacena	
BSCB	Bom Sucesso	
BRAS	Brasopolis	
CDCB	Carmo do Cajuru	
ITRB	Iturama	
JANB	Januaria	
JAN03	Januaria	
JAN06	Januaria	
JAN07	Januaria	
JAN08	Januaria	
JAN09	Januaria	
JFO	Juiz de Fora	
MC01	Montes Claros	
MC02	Montes Claros	
MC03	Montes Claros	
MC04	Montes Claros	
MC05	Montes Claros	
MC06	Montes Claros	
MCI6	Montes Claros	
MCI7	Montes Claros	
MCI8	Montes Claros	
MCI9	Montes Claros	
PMNB	Patos De Minas	
SJMB	Sao Joao De Manteninha	
FUN1	UHE Funil - MG	
Para		
ATB	Altamira	
BEB	Belem	
ITTB	Itaituba	
MALB	Monte Alegre	
NPGB	Novo Progresso	
PRPB	Parauapebas	
TUCB	Tucurui	
BMO1	UHE Belo Monte	
ATM1	UHE Belo Monte	
BMO2	UHE Belo Monte	
TUC4	UHE Tucurui	
TUC3	UHE Tucurui	
Paraiba		
NBLI	Livramento-PB	
SLBR	Solanea	
Parana		
ITF10	CHI Itaipu Binacional	
ITF4	CHI Itaipu Binacional	
VTF1	CHI Itaipu Binacional	
FDA	Foz do Areia	
FDA5	Foz do Areia	
FDA4	Foz do Areia	
TIJ01	Guaruva-PR	
ITB	Itaipu	
ITB1	Itaipu 1	
ITB7	Itaipu 7	
PTGB	Pitanga	
SP7	Salto Pilao - PR	
MAJ01	Sˆ£o Joˆ£o Batista-SC	
TRCB	Terra Rica	
RSTA	Tijuco Alta	
TER01	Tubarˆ£o-SC	
YCA	YACYRETA	
Pernambuco		
AGBLB	Aguas Belas	
CAUB	Caruaru	
NBCA	Caruaru-PE	
GRBR	Gravata	
ITR	Itaparica	
ITR2	Itaparica 2	
ITR5	Itaparica 5	
NBRF	Rio Formoso - PE	
SABR	Sanharo	
AGBR	Sao Joaquim do Monte	
NBTA	Tacaratu-PE	
Piaua		
NBPS	Pedro II - PI	
TRSB	Teresina	
Rio de Janeiro		
ESAR	Angra dos Reis-Rio de Janeiro-Brazil	
MAN01	Angra dos Reis-RJ	
BMA	Barra Mansa	
CAM01	Campos-RJ	
DUB01	Friburgo-RJ	
ITA	Itatiaia	
CAM1	Macae	
CAM4	Nova Friburgo	
RDJ	Rio de Janeiro	
TRRB	Tres Rios	
SIM1	UHE Simplicio	
SIM2	UHE Simplicio	
VASS	Vassouras	
VAS01	Vassouras-RJ	
Rio Grande do Norte		
CAI	Caico	
IPA	Ipanguacu	
JC1B	Joao Camara	
JC04	Joao Camara	
JC06	Joao Camara	
JC20	Joao Camara	
JC05	Joao Camara	
NAT	Natal	
NBPA	Parau_RN	
PFBR	Pau dos Ferros	
NBPV	Pedro Velho	
RCBR	Riachuelo	
Rio Grande do Sul		
CPSB	Cacapava Do Sul	
CNLB	Canela	
ITQB	Itaqui	
PLTB	Pedras Altas	
UFRS	Porto Alegre	
Rondonia		
ETMB	Extrema	
SRB	Samuel	
SAML	Samuel	
SAMU	Samuel, RO	
VILB	Vilhena	
Sao Paulo		
VAO2	Atibaia	
BB16B	Bebedouro	
BB19B	Bebedouro	
BB19	Bebedouro	
BEB22	Bebedouro	
BE13	Bebedouro13	
CACB	Caconde	
JAC01	Canaˆ™ia-SP	
FRTB	Fartura	
IGAB	Igarata	
PET01	Itanhaem-SP	
JUQB	Juquia	
PCMB	Pacaembu	
PARB	Paraibuna	
PPD	Presidente	
RIFB	Rifaina	
RCLB	Rio Claro- Sao Paulo-Brazil	
VAO3	Socorro	
SLP01	Ubatuba-SP	
VAO	Valinhos	
Sergipe		
CRRB	Carira, Sergipe, Brazil	
NBLA	Lagarto - SE	
PCTB	Pacatuba, Sergipe, Brazil	
Tocantins		
RET3	Cariri, TO, Brazil	
CRIB	Cristalandia	
RET6	Dianopolis -TO	
RET2	Formoso do Araguaia, TO, Brazil	
LJDO	Lageado - TO	
RET12	Mateiros - TO	
MCRB	Monte do Carmo	
RET11	Monte do Carmo - TO	
NTVD	Natividade - TO	
RET14	Novo Acordo - TO	
PRNN	Paranan	
RET5	Paranan- TO	
PEXB	Peixe	
RET10	Pium - TO	
PATO	Ponte Alta do Tocantins	
RET1	Porto Nacional, TO, Brazil	
SMTB	Santa Maria do Tocantins	
RET13	S. Felix do Tocantins -TO	
RET4	Sucupira, TO, Brazil	
LAJE	UHE Lajeado	
Chile		
Aconcagua		
ALH	Alicahue	
CTP	Catapilco	
JACH	Jahuel	
Antofagasta		
ANT	Antofagasta	
ANCH	Antofagasta	
CAC	Calama	
CTBN	Caleta Bueno	
CPN1	Cerro Paranal	
PB03	IPOC Station PB03	
PB04	IPOC Station PB04	
PB06	IPOC Station PB06	
PB07	IPOC Station PB07	
PB09	IPOC Station PB09	
PB10	IPOC Station PB10	
LVC	Limon Verde	
CEN1	Los Morros	
MACH	Maria Elena	
MECH	Mejillones	
MEJI	Mejillones	
MIC	Michilla	
MICH	Michilla	
MTZ	Montezuma	
MTQ	Monturaqui	
OAS	Oasis	
OFA	Oficina Alemania	
PECH	Pedro de Valdivia	
PEI	Peine	
QUL	Quillagua	
SLN	Salinas	
SPCH	San Pedro de Atacama	
TCN	Toconce	
TOCH	Tocopilla	
TPL	Tocopilla	
TCP	Tocopilla	
Atacama		
CDCH	Caldera	
CLD	Caldera	
CAA	Chanaral	
CRCH	Chaqaral	
CPCH	Copiapo	
CPP	Copiapo	
GO03	Copiapo@15	
ESC	El Salvador	
HUCH	Huasco	
SDO	Salado	
Bio-Bio		
CCHI	Chillan	
COBQ	Cobquecura	
COCH	Cobquecura	

Code	Station Name	Other
LLIC	Llico	
CCSP	San Pedro de Concepcion	
Cautin		
PSCH	Puerto Saavedra	
TMU	Temuco	
TEM	Temuco	
VNV	Volcan Villarrica	
TS1	Aisen	
TS6	Aisen	
TS2	Aisen	
TS5	Aisen	
TS4	Aisen	
TS3	Aisen	
ARCH	Arica	
CTRO	CASTRO	
GO01	Chusmiza	
CHRN	Cochrane	
CNTO	Contao	
PUYE	Entre Lagos	
FUTA	Futaleufu@15	
HOCH	Hornopire@15n	
HUAR	Huara	
HUNY	Huinay	
PB05	IPOC Station PB05	
PB12	IPOC Station PB12	
PB13	IPOC Station PB13	
PB14	IPOC Station PB14	
PB15	IPOC Station PB15	
PB16	IPOC Station PB16	
ILCA	Isla Las Cabras	
TIRA	La Tirana	
PINT	Los Pintados	
GO07	Milladeo Hill, Quello@15n	
NEUQ	Neuquen (mine)	
POZO	Pozo Almonte	
CHFR	Pto Chacabuco	
PUEL	Puelo Alto	
AYCH	Puerto Aysen	
PMCH	Puerto Montt	
PATCX	Punta Patache	
QLLN	Quello@15n	
TMCH	Temuco	
UNAP	University of Iquique	
GO08	Villa O'Higgins	
Concepcion		
U14B	Concepcio@15n	
CONC	Concepcion	
CON	Concepcion	
Coquimbo		
CBCH	Cabildo	
CMCH	Combarbala	
ILCH	Illapel	
LCO	Las Campanas	
LSCH	La Serena	
CHNG	Los Chungos	
VICH	Los Vilos	
OVCH	Ovalle	
TLL	Tololo Astronomical Observatory	
GO04	Tololo Observatory, Vicun@16a	
VACH	Vallenar	
Easter Island		
EIC	Easter Island	
I13CL	EASTER ISLAND INFRASONIC ARRAY REFERENCE POINT	
PSC	Isla de Pascua	
RPN	Rapa Nui	
Juan Fernandez Islands		
IJF	Islas Juan Fernandez	
H03N1	Juan Fernandez Island Hydroacoustic Site N1	
H03N2	Juan Fernandez Island Hydroacoustic Site N2	
H03N3	Juan Fernandez Island Hydroacoustic Site N3	
H03S1	Juan Fernandez Island Hydroacoustic Site S1	
H03S2	Juan Fernandez Island Hydroacoustic Site S2	
H03S3	Juan Fernandez Island Hydroacoustic Site S3	
I14CL	ROBINSON CRUSOE ISLAND INFRASONIC ARRAY REFERENCE POINT	
Linares		
PAN	Panimavida	
SJC	San Javier	
Magallanes		
GO09	Cerro Castillo	
GO10	Punta Arenas	
PTA	Punta Arenas	
SOM	Sombrero	
Malleco		
ANGC	Angol	
Maule		
AGCH	Angol	
CAUQ	Cauquenes	
CNCO	Chanco	
CTCH	Constitucion	
CONS	Constitucion	
GO05	Hualan@16e@15	
U65B	Hualane	
ILOC	Iloca	
LNCH	Linares	
NICH	Los Niches	
MFCH	Minera del Fierro	
CHUE	Retiro	
SJVR	San Javier	
TALC	Talca	
Metropolitana		
LACH	Col Las Americas	
O'Higgins		
CICH	Cipreses	
COLN	Colon	
CACH	El Canelo	
U69B	Peumo	
CHPI	Pichilemu	
PICH	Pichilemu	
SFDO	San Fernando	
STCR	Santa Cruz	
Santiago		
ANTU	Antumapu	
BACH	Barnechea	
CLCH	Cerro Calan	
ELRO	Cerro El Roble	
CHCH	Chadas Angostura	
DSCH	Colegio Aleman	
ROCH	El Roble	
ROC1	El Roble	
YECH	El Yeso	
EDC*	EscuelaIngenieria	
FCH	Farellones	
LCCH	Las Cruces	
LMEL	Las Melosas	
LLCH	Llolleo	
LQT	Los Queltehues	
PEL	Peldehue	
FSR	Penalolen	
PCH	Pirque	
PUEX	Pudahuel	
PUT	Punta Talca	
RCDM	Rinconada Maipu	
SCR	San Cristobal	
SJCH	San Jose de Maipo	
SJM	San Jose Maipo	
STL	Santa Lucia	
SAN	Santiago	
TACH	Talagante	
Tarapaca		
ARI	Arica	
HMBC	Humberstone	
PB01	IPOC Station PB01	
PB02	IPOC Station PB02	
PB08	IPOC Station PB08	
PB11	IPOC Station PB11	
IQQ	Iquique	
ICC	Iquique	
GO02	Mina Guanaco	
MNMCX	Minye Minye	
MNMC	Minye Minye	
OLL	Ollague	
PSGCX	Pisagua	
PSGC	Pisagua	
Valdivia		
OSCH	Osorno	
VLV	Valdivia	
VLCH	Valdivia	
Valparaiso		
CCCH	Con Con	
ELP	El Pangue	
ELQ	El Quisco	
IHA	Instituto Hidrografico de la Armada	
LAV	Laguna Verde	
LNV	Longovilo	
MOCH	Los Molles	
NAVD	Navidad	
OLCH	Olmue	
PACH	Papudo	
PTCH	Petorca	
U73B	San Pedro	
VLP	Valparaiso	IHA
UTF	Valparaiso	
ZACH	Zapallar	
Colombia		
CODC	Agustˆ›n Codazzi, Colombia	
ANCC	Alto Anchicaya	
ARGC	Ariguani, Magdalena	
AZUC	Azuc	
AZ1C	Azucar	
MALC	Bahia Malaga	
SOLC	Bahia Solano	
BBAC	Balboa, Cauca	
BARC	Barichara	
BRRC	Barranca, Santander	
CBRI	Barrientos, Norte de Santander	
BETC	Betania	
BTLC	Betulia, Santander	
BOCO	Bogota	
BOG	Bogota	
CBOG1	Bogota, SGC	
BCR	Bucaramanga	
BMG	Bucaramanga	
BUGC	Buga	
RAC02	Cali,SGC	
CAPC	Capurgana	
CRJC	Cerrejon, Guajira, Colombia	
KENC	Cerro Kenedy	
CTAB	Cerro Tablazo, Cundinamarca	
CHN	Chinchina	
CHIC	Chingaza	
PCON	Cinco Dias	
CBOC	Ciudad Bolivar, Antioquia	
CCODA	Codazzi, Cesar	
CVER	Cruz Verde, Cundinamarca	
CCUC3	Cucuta, Santo Domingo	
CCUFI	Cufiˆ–o, Nariˆ–o	
CMBC	Cumbal	
DBBC	Dabeiba	
DBCC	Dabeiba, Colombia	
ETC	El Centro	
HOBC	El Hobo	
RREF	El Recreo	
ROSC	El Rosal	
CROSA	EL ROSAL, CUNDINAMARCA	
FLOC	Florencia	
CFLOR	Florencia	
FUQ	Fuquene	
GAL	Galerazamba	
GARC	Garzon, Huila	
GIRC	Giron, Santander	
GR1C	Gorgona, Isla Gorgona	
GUEC	Guerrero, Norte de Santander	
GUY2C	Guyana, Caldas	
GUYC	Guyana, Colombia	
HOQC	Horqueta	
CIBA1	Ibague, SGC	
GRGC	Isla de Gorgona	
PRVC	Isla de Providencia	
CGR1C	Isla Gorgona, Cauca	
CRUC	La Cruz	
DIAC	La Diana	
CLMC	Lago Colima	
AGZ	La Independencia	
RUSC	La Rusia	
LCBC	Los cˆ‡rdobas, Cordoba	
MACC	Macarena, Meta	
MAPC	Malpelo	
CMAN1	Manizales, Caldas	
MEDC	Medellin	
MOTC	Monteria, Cordoba	
MUNC	Munchique	
CUMC	Nevado Cumbal	
NORC	Norcasia	
CNOCA	NORCASIA, CALDAS	
OCAC	Ocana	
ORTC	Ortega, Tolima	
MARP	Paez Belalcazar	
PAMC	Pamplona, Colombia	
CPAS2	Pasto	
PSO	Pasto	
CPAS1	Pasto	
PAST	Pastocalle	
PIZC	Pizarro, Choco	
PLAY	Playas-San Antonio	
POPC	Popayan, Colombia	
CPOP5	Popayan, Gabriela Mistral	
CPOP2	Popayan, Invias	
CPOP3	Popayan, Sena	
PRAC	Prado	
PUAC	Puerto Asis, Putumayo	
PTBC	PUERTO BERRIO, Antioquia	
PTGC	Puerto Gaitan, Meta	
PTLC	Puerto Leguizamo, Putumayo	
PTAC	Punta Ardita, Chocˆ‡	
REAC	Reactor, Bogotˆ¡	
SOTA	Rioblanco	
HORQ	Saladito	
SALC	Salvajina	
SRD	San Andres	
SEGC	San Emigdio	
SJCC	San Jacinto, Colombia	
GUVC	San Jose del Guaviare	
PLMC	San Josˆ' del Palmar, Chocˆ‡	
UREC	San Josˆ' de Urˆ', Cordoba	
SJAC	San Juan de Arama, Meta	
SMLC	San Martˆ›n de Loba, Colombia	
SPBC	San Pablo de Borbur, Boyacˆ¡	
ANIL	Santa Ana	
HELC	Santa Helena	
SMRC	Santa Marta, Magdalena	
SILC	Silvia	
TAMC	Tame, Arauca	
TATC	Tatama	
CTAU	Tausa, Cundinamarca	
TOLC	Tolima	
CTUM2	Tumaco	
TUMC	Tumaco	
CTUMA	Tumaco, Batallon	
URB	Uribe, Santander	
URIC	Uribia, Colombia	
CVALL	Valledupar, Cesar	
VILC	Villavicencio, Colombia	
GCUF	Volcan Galeras	
PURC	Volcan Purace	
YOPC	Yopal, Colombia	
YOTC	Yotoco, Valle del Cauca	
ZARC	Zaragoza, Cauca	
CHI2		
LOEW		
PUYI		
BIAC		DIAC
ECALA		
ACVZ		
PLAZ		
URCR		
NAR2		
OLGA		
COB3		
ANVZ		
CR2G		
Coquimbo		
CO02	Combarbalˆ¡	
CO03	El Pedregal	
CO01	Juntas del Toro	
CO04	Los Peladeros	
Ecuador		
AANG	Aceleršˆ‡grafo del Angel	
VIFL	Administraciˆ‡n Zonal Eloy Alfaro - Quito	
QUIB	Administraciˆ‡n Zonal Quitumbe - Quito	
ALAU	Alausˆ›, Posada N	
ALTA	Alta Urco	
AAM1	Ambato 1 (Municipio)	
AAM2	Ambato 2 (Mercado Amˆ'rica)	
PIAT	Ana Tenorio	
ANGU	Angureal	
ANTI	Antisana	
ANTC	Antisana-Cuyuja	
ANTG	Antisana-Guamanˆ›	
ANTM	Antisana-La Mica	
ANTS	Antisana-Sarahuasi	
ARDO	Archidona, Tena	
AREE	Arenal	
ARNL	Arenillas	
ARRY	Arrayan	
NINA	Atacazo Ninahuilca	
AZU1	Azuela	
MONB	Balzapamba Montalvo, CascadaMilagrosa	
BALZ	Balzar	
BELL	Bellavista	
BIBL	Bibliˆ¡n	
CABP	Cabo Pasado	
CALV	Calvario	
CARM	Carmen	
CARS	Cars	
TING	Casa Alexandra Alvarado - Tingo	
CUMY	Casa Hugo Yepes - Cumbaya	
LILI	Casa Papˆ¡s Liliana Troncoso	
PRAM	Casa Patricio Ramon - Quito	
FENY	Casa Vinicio Caceres	
JSCH	Cashca Tororas, San Jose de Chimbo	
CATE	Catamayo	
CAYA	Cayambe	
CASW	Cayambe	
ELAGU	Cayambe Volc	
GYEB	Cerro Blanco	
CHIS	Cerro-Chispas-Manabi	
HOJA	Cerro de Hojas	
ECEN	Cerro Negro	
CHAR	Charly	
CHIM	Chimborazo	
CHI1	Chimborazo	
PORT	Chimborazo Volcano	
CIRC	Cˆ›rculo Militar	
COHC	Cochancay	
C24MA	Colegio 24 de Mayo	
ZALD	Colegio Gonzalo Zaldumbide - Quito	
COSF	Comisariato del Ejercito Sur - Quito	
CONE	Cono NE Rev Volc	
SANF	Convento San Francisco - Quito	
ECOPE	Copete-Rev Volc	
COTA	Cotacachi	
ACOT	Cotacachi (Casa del Agua)	
VC1	Cotopaxi 1	
COV1	Cotopaxi Volc	
BTAM	Cotopaxi Volcano	
BNAS	Cotopaxi Volcano	
BREF	Cotopaxi Volcano	
BVC2	Cotopaxi Volcano	
BMOR	Cotopaxi Volcano	
PITA	Cotopaxi Volc (N)	
MOV1	Cotopaxi Vol south	
CGGP	Crater GGP	
CUIC	Cuicocha-Domo	
CUSE	Cuicocha Este	
CUSW	Cuicocha Oeste	
CUMB	Cumbre	
CUPA	Cupa	
CUSU	Cusua	
DOMO	Domo	
CASC	Dorado de Cascales	
ANGL	Ecuador	
PECU	Ecuador Network	
MECU	Ecuador Network	
AECU	Ecuador Network	
IECU	Ecuador Network	
GECU	Ecuador Network	
BECU	Ecuador Network	
RECU	Ecuador Network	VC1
CECU	Ecuador Network	
EDEN	Eden	
CIVI	Edificio de Ingenierˆ›a Civil	
EPNL	EPN Laboratorio de Estructuras	
BIL2	Estacion Bilbao	
QTOE	Estacion Edusismo	
FARH	Faro	
FLFR	Flavio Alfaro	
GALE	Galera	
GOLV	Golondrinas	
GONZ	Gonzanamˆ¡	
GGPC	Guagua Pichincha Codigem	
GUAL	Guallil	
AGUAY	Guayaquil	
HIER	Hierbabuena	
IBAR	Ibarra	
AIB2	Ibarra (Universidad Catˆ‡lica)	
IGUA	Igualata	
ILLI	Illinizas Sur - Rasayacu	
IMBA	Imbabura, San Roque	
IRDE	Institut de recherche pour le d'veloppement - Quito	
ISPT	Isla de la Plata	
ISPU	Isla Punˆ¡	
JAMA	Jama	
JUI6	Juive	
JUIV	Juive	
JUI3	Juive 3	
BONI	La Bonita	
LGCB	Laguna Cube	
HSPR	La Hesperia	
ALIBE	La Libertad	
ALAT	Latacunga	
LAV2	Lava2-Rev Volc	
LAV3	Lava3-Reventador	
LAV4	Lava4-Reventador	
LITE1	Lita	
LITE	Lita	
LLOA	Lloa	
MCRA	Macarˆ¡, Loja	
MACE	Macas	
MAG1	Magdalena	
MAGD	Magdalena	
PECV	Mancha de Ca Pechiches	
AMANT	Manta	
MSON	Mazon	
MILO	Milagro-Astudillo	
AMIL	Milagro (Transelectric)	
AMOM	Mompiche	
MJAS	Monjas	
MUSH	Mushullacta	
NAS2	Nasa	
NAS1	Nasa	
NCE	Nasa Cotopaxi	
NONO	Nono	
AOTA	Otavalo	
OTAV	Otavalo	
PAC1	Pacto, Parašso	
PKYU	Pakayacu	
PALA	Palora	
PAT1	Patacocha	
PATA	Patacocha	
PDNS	Pedernales	
GPNO	Pichincha	
PINO	Pino	
PIS1	Pisayambo	
PISA	Pisayambo	
MORR	Playas El Morro	
APLA	Playas - Guayaquil	
PENR	Ponce-Enriquez	
POND	Pondoa	
PUCR	Pucara	
QUEM	Puengasi	
PPLP	Puerto L"‡pez	
PULU	Pululahua	
PTGL	Punta Galera	

Code	*Station Name*	*Other*
APUY	Puyo	
PUYO	Puyo, Santa Rosa	
AQUE	Quevedo	
QUEV	Quevedo	
QIL2	Quilotoa	
QIL1	Quilotoa	
QUIL	Quilotoa	
QITI	Quititos	
QIT2	Quititos 2	
OAQ	Quito	
QUI	Quito	
QTO	Quito	
COMIL	Quito-Colegio Militar	
QUND	Qund	
MARY	Rancho Maria	
CAMI	Rancho Maria	
RETU	Refugio	
CAYR	Refugio Cayambe	
GGP	Refugio Guagua Pichincha	
REVS	Reventador Sur	
EPALM	Reventador volcano	
REVE	Rev-Rev Volc	
RIOE	Riobamba	
ARIO	Riobamba	
RIOE1	Riobamba	
RVRD	Rio Verde	
RUMP	Rumipamba	
QUR	Rumipamba	
RUN5	Runtun	
RUN2	Runtun	
RUN3	Runtun 3	
SAGO	Sagoatoa	
SALI	Salinas	
ONHA	San Felipe OˆŠa, Saraguro	
JORG	San Jorge	
JOR1	San Jorge 1	
JUAN	San Juan	
JUA2	San Juan 2	
BOSC	San Juan Bosco	
LORE	San Lorenzo	
MGUL	San Miguel	
ASDO	Santo Domingo	
IESS	Sede Social del IESS - Quito	
SOCH	Soche	
TAIS	Taisha	
TAMB	Tambo	
TAMH	Tambohuasha Chimborazo	
TENA	Tena	
ATEN	Tena	
TERV	Terraza Guagua	
TOAZ	Toaza	
BMAS	Trigal station	
ATUL	Tulcˆ¡n	
TULM	Tulcˆ¡n-Chalpatan Las Cuevas	
QUT	Tumbaco	
TUNG	Tungurahua	
BILB	Tungurahua volcano	
BRUN	Tungurahua Volcano	
BPAT	Tungurahua Volcano	
ULBA	Ulba	
BBIL	Ulba Tungurahua	
BULB	Ulba Tungurahua	
LOJ1	Universidad t"cnica Particular de Loja	
URCU	Urcuqui	
YAHU	Yahuarcocha	
YANA	Yana	
YANT	Yantzaza	
ZUMB	Zumba	
XTAL		
Galapagos		
ALCE	Alcedo, Punta Alfaro	
CEAZ	Cerra Azul, Caleta Web	
FER1	Fernandina1, Punta Espinoza	
FER2	Fernandina2, Punta Mangle	
GIE	Galapagos Islands	
FERN	Isla Fernandina	
PAYG	Puerto Ayora	
PVIL	Puerto Villamil, Aeropuerto	
VCHI	Volcan Chico	
VCH1	Volcˆ¡n Chico	
France		
French Guiana		
CAY	Cayenne	
KOG	Kourou	
MDP	Montagnes des Pe@15res	
MPGF	Montagnes des Peres	
Juan Fernandez Islands		
VA04	Juan Fernˆ¡ndez	
La Araucanˆ›a		
LC01	Cunco	
Los Lagos		
LL02	Futaleufˆ"	
LL01	San Ignacio de Huinay	
Magallanes		
MG01	Puerto Williams	
Metropolitana		
MT02	Curacavˆ›	
MT01	Popeta	
MT05	Renca	
MT09	Talagante	
MT03	Universidad Adolfo Ibaˆ–ez	
O'Higgins		
BO03	Pichilemu	
BO02	Sierra Bellavista	
BO01	Tunca	
Para		
MCPB	Macapa, AP	
TMAB	Tomˆ'-Aˆ§u,PA,Brazil	
Paraguay		
ITF6	CHI Itaipu Binacional	
ITF11	CHI Itaipu Binacional	
MOND	CHI Itaipu Binacional	
CPUP	Villa Florida	
I41PY	VILLA FLORIDA INFRASONIC ARRAY REFERENCE POINT	
Paraiba		
PATB	Patos, Paraiba, Brazil	
Peru		
CHP4	Algarobillo	
PP10	Ancon	
ARE	Arequipa	
ATAH	Atahualpa	
ATI	Atico	
PP07	Ayacucho	
AYAC	Ayacucho	
AYE	Ayenquera	
PP16	Cajamarca	
PP02	Calachota	
PT10	Camacho	
CRV	Caraveli	
CST	Castrovirreyna	
CLA	Chala	
PP08	Chalhuanca	
CHP8	Chiclayo	
CHP3	Chocan	
PP03	Condor	
CHP2	Corcovado	
CUS	Cuzco	
PR05	Cuzco--Tambomachay	
CHP7	Eten	
PT03	Guadalupe	
HUA	Huancayo	
HCO	Huanuco	
HUZ	Huaraz	
HURP	Huarmaca	
CHP5	Huaypira	
ICA	Ica	
PT05	Jicamarca	
PT11	Juni	
LIM	Lima	
LM2	Lima (Magdalena)	
PT20	Maychil	
MAYR	Mayorazgo	
MRF	Miraflores	
PT21	Montanita	
PT01	Morro Solar	
NNA	Nana	
ONG	Ongoro	
PCS	Paracas	
CHP1	Pelados	
PT06	Pisco	
PT18	Porculla	
PCHP	Portachuelo	
PUC	Pucallpa	
PVP	Pueblo Viejo	
PUN	Puno	
PP06	Puquio	
QUM	Quillmana	
PT02	Quilmana	
SGP	San Gregorio	
SJU	San Juan	
SJN	San Juan, Peru	
PT09	Santa Fe	
SHP	Santa Helena	
PP04	Saramarca	
PT08	Suche	
TAL	Talara	
PP05	Tocota	
TRP	Trujillo	
PP09	Villa El Salvador	
PT04	Zamaca	
EPCH		
HCA		
HLS		
EMPA		
Tarapacˆ¡		
TA01	Diego Aracena	
TA02	Huaiquique	
Uruguay		
OGAUY	Aiguˆ¡	
Valparaˆ›so		
VA02	Isla de Pascua	
VA03	San Esteban	
VA05	Santo Domingo	
VA01	Torpederas	
Venezuela		
ALTV	Alturitas	
ANGV	Angostura	
BLV	Bailadores	
BARV	Barcelona	
BRIV	Barinas	
BAUT	Bautismo	
BETV	Betijoque	
BIRV	Birongo	
BOTV	Botiquin	
CABA	Caballo Blanco	
CAOV	Caicara del Orinoco	
CAIV	Caiguire	
CLCV	CALICANTO	
CAMV	Campeare	
CAPV	Capacho	
CARV	Caracas	
CAR	Caracas	
CRUV	Carupano	
CSV	Casigua	
CATA	Catuaro Arriba	
CANV	Cerro Antonio	
CEDI	Cerro Diablo	
CEOS	Cerro El Oso	
ELMO	Cerro Moro	
CERV	Cerron	
CENE	Cerro Negro	
GTV	Cerro Toribio	
CUPV	Cu@15pira	
CUM	Cumana	
COAV	Cumanacoa	
CURV	Curarigua	
DABV	Dabajuro	
BAUV	El Baul	
CAFV	EL CAFE	
GURV	El Guri	
EHV	El Hato	
LLAV	El Llanito	
GMV	El Manteco	
ELOV	Elorza	
PAUV	EL PAUJM	
PRAV	El Prado	
TGRV	El Tigre	
TOV	El Tocuyo	
VIGV	El Vigia	
VOLV	El Volcan	
FIPE	Fila de Piedra	
ELPA	Fila Paraiso	
FDCV	FORTIN DE LA CUMBRE	
FUNV	FUNVISIS	
GRMC	Gramalote, Santander	
GUAC	Guacamaya	
GUNV	Guanoco	
GUIV	Guiria	
GUV	Guri	
GUV2	Guri Network	
GUV1	Guri Network	
GUV4	Guri Network	
GUV5	Guri Network	
GUV3	Guri Network	
HATO	Hato, Curacao	
INTV	Intevep	
IAV	Isla Aves	
IBAV	Isla La Blanquilla	
ORCV	Isla La Orchila	
IMOV	Isla Los Monjes	
ITEV	Isla Los Testigos	
IVIV	IVIC	
JACV	Jacura	
AGV	La Aguada	
CEIV	La Ceiba	
LACU	La Cuchilla	
CUV	La Culata	
LADA	La Danta	
LAGU	Laguneta	
LAGV	Lagunillas	
LGN	Lagunillas	
LAPE	La Pedrera	
MERV	Las Mercedes	
OLLA	Las Ollas	
TORT	La Tortuga	
LAU	La Urbina	
LEV	Loma de el Viento	
LORO	Los Roques	
LUEV	Luepa	
GMC	Macagua	
MAPV	Macapo	
MCHV	Machiques	
MCQV	Machiques	
MANV	Manamana	
MARA	Maracay	
MISV	Misoa	
MOLL	Mollejon	
MONV	Montecano	
MORO	Morrocoy	
OCUV	OCUMARITO	
ORIV	Oritupano	
PALR	Palma Real	
PALM	Palmichal	
OSV	Paramo de la Osa	
PDMV	Paramo Marino	
PARV	Pariaguan	
PRGV	PARIAGUAN	
EAV	Pico El Aguila	
PMV	Pico Espejo	
PLAV	Platillon	
POTV	Potrerito	
PAYV	Puerto Ayacucho	
PLCV	Puerto La Cruz	
PCRV	Puerto La Cruz	
QARV	Quebrada Arriba	
RIOV	Rio Grande	
FISA	Sacuragua	
SAJV	Sajaritas	
SANV	Sanarito	
SCRV	San Cristobal	
LORV	San Lorenzo	
ISAV	Santa Isabel	
SRV	Santa Rosalia	
SDV	Santo Domingo	
SIPV	Sipayare	
SIQV	Siquisique	
SIR	Siria	
SOCV	Socops	
TEPV	Terepaima	
TIOV	TMO PEDROTE	
TORV	Torococo	
PALV	Tres Palos	
TUV	Trujillo	
TURV	Turiamo	
UAV	Universidad de los Andes	
GUAN	Valle de Guanape	
VIRV	Villa del Rosario	

AGENCIES REPORTING EPICENTRAL ESTIMATES

AEIC **ALASKA EARTHQUAKE INFORMATION CENTER.** Geophysical Institute, University of Alaska Fairbanks, P.O. Box 757320, Fairbanks AK 99775-7320, U.S.A..

ANF **USARRAY ARRAY NETWORK FACILITY.** IRIS, 1200 New York Ave, NW, Suite 800, Washington, DC 20005, U.S.A..

ARE **INSTITUTO GEOFISICO DEL PERU.** Universidad Nacional de San Agustin, Seccion de Sismologia, Calle Badajoz # 169, Mayorazgo IV Etapa, Cod. Postal 03 Referencia Cruce, Arequipa, Peru.

ARO **OBSERVATOIRE GˆOPHYSIQUE D'ARTA.** Observatoire Geophysique d,Arta, B.P. 1888, Djibuti, Djibouti.

ASIES **INSTITUTE OF EARTH SCIENCES, ACADEMIA SINICA.** Institute of Earth Sciences, Academia Sinica, POB 1-55, Nankang, 11529, Chinese Taipei, Chinese Taipei.

ASRS **ALTAI-SAYAN SEISMOLOGICAL CENTRE, GS SB RAS.** Geophysical Survey SB RAS, Ac. Koptyug Pr.,3, 630090, Novosibirsk, Russia.

ATH **NATIONAL OBSERVATORY OF ATHENS.** Institute of Geodynamics, National Observatory of Athens, P.O. Box 20048, 118 10 Athens, Greece.

AUST **GEOSCIENCE AUSTRALIA.** Geoscience Australia, Cnr Jerrabomberra Ave and Hindmarsh Drive, Symonston ACT, PO Box 378, Canberra ACT 2601, Australia.

AWI **ALFRED WEGENER INSTITUTE FOR POLAR AND MARINE RESEARCH.** Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Postfach 12 0161, D-27515, Bremerhaven, Germany.

AZER **REPUBLIC CENTER OF SEISMIC SURVEY.** Azerbaijan Academy of Science, 9, F.Agayev St., AZ1141, Baku, Azerbaijan.

BEO **SEISMOLOGICAL SURVEY OF SERBIA.** Republicki seizmoloski zavod - Seismological Survey of Serbia, Park Tasmajdan, P.O.Box 16, 11000 Beograd, Serbia.

BER **UNIVERSITY OF BERGEN.** Department of Earth Science, Allegt. 41, 5007 Bergen, Norway.

BGR **BUNDESANSTALT FˆR GEOWISSENSCHAFTEN UND ROHSTOFFE.** Bundesanstalt fuer Geowissenschaften und Rohstoffe, Stilleweg 2, D-30655 Hannover, Germany.

BGS **BRITISH GEOLOGICAL SURVEY.** Global Seismology Unit, Murchison House, West Mains Road, Edinburgh, EH9 3LA, United Kingdom.

BJI **CHINA EARTHQUAKE NETWORKS CENTER.** China Earthquake Networks Center, China Earthquake Administration, No.5, Sanlihe Nanhengjie, Xicheng District, Beijing 100045, China.

BKK **THAI METEOROLOGICAL DEPARTMENT.** Thai Meteorological Department, 4353 Sukhumvit Road, Bangna, Bangkok, Thailand.

BNS **ERDBEBENSTATION, GEOLOGISCHES INSTITUT DER UNIVERSITˆT, KˆLN.** Erdbebenstation, Geologisches Institut der Universitat Koln, Vinzenz-Pallotti-Strasse 26, 51429 Bergisch Gladbach, Germany.

BUC **NATIONAL INSTITUTE FOR EARTH PHYSICS.** National Institute for Earth Physics, Seismological Department, PO Box MG-2, 76900, Bucharest-Magurele, Romania.

BUD **GEODETIC AND GEOPHYSICAL RESEARCH INSTITUTE.** Geodetic and Geophysical Reasearch Institute, Hungarian Academy of Sciences, Meredek u. 18, H-1112 Budapest 11, Hungary.

BUG **INSTITUTE OF GEOLOGY, MINERALOGY & GEOPHYSICS.** Ruhr-Universitat Bochum, Gebˆude NA 3/173, 44780 Bochum, Germany.

BUL **GOETZ OBSERVATORY.** Goetz Observatory, P.O. Box AC 65, Ascot, Bulawayo, Zimbabwe.

BUT **MONTANA BUREAU OF MINES AND GEOLOGY.** Montana Tech of The University of Montana, Butte, MT 59701, U.S.A..

BYKL **BAYKAL REGIONAL SEISMOLOGICAL CENTRE, GS SB RAS.** Baykal Regional Seismological Centre, Lermontov str,.128, Irkutsk-33, 664033, Russia.

CAR **INSTITUTO SISMOLOGICO DE CARACAS.** Instituto Sismologico, Apartado 6745, Caracas 1010A, Venezuela.

CASC **CENTRAL AMERICAN SEISMIC CENTER.** Escuela Centroamericano de Geologia, Universidad de Costa Rica, San Jose, Costa Rica.

CERI **CENTER FOR EARTHQUAKE RESEARCH AND INFORMATION.** Memphis University, 3890 Central Ave (formerly TEIC Tennessee Earthquake Information Center), Memphis, TN 38152, U.S.A..

CNRM **CENTRE NATIONAL DE RECHERCHE.** Centre National de Recherche, B.P. 1346, R.P. Rabat, Morocco.

CRAAG **CENTRE DE RECHERCHE EN ASTRONOMIE, ASTROPHYSIQUE ET GˆOPHYSIQUE.** Centre de Recherche en Astronomie, Astrophysique et Geophysique, Craag, Algiers, Algeria.

CSEM **CENTRE SISMOLOGIQUE EURO-MˆDITERRANˆEN (CSEM/EMSC).** Centre Sismologique Euro-Mediterraneen, c/o LDG, BP12, 91680 Bruyeres-le-Chatel, France.

DDA **DISASTER AND EMERGENCY MANAGEMENT PRESIDENCY.** Disaster and Emergency Management Presidency, Earthquake Department Presidency, Kˇ–zˇ–lˇ–rmak Mah. Ufuk ˆnversitesi Cad. No:12 SˆŸˆ…tˆŸzˆ…, 06510 ˆankaya, Ankara, Turkey.

DHMR **YEMEN NATIONAL SEISMOLOGICAL CENTER.** National Seismological Observatory Center, P.O. Box 87175, Dhamar, Yemen.

DJA **BADAN METEOROLOGI, KLIMATOLOGI DAN GEOFISIKA.** Badan Meteorologi dan Geofisika, Jln. Angkasa I/2 Kemayoran, Jakarta Pusat 10720, Indonesia.

DMN **DEPARTMENT OF MINES AND GEOLOGY, MINISTRY OF INDUSTRY OF NEPAL.** Department of Mines and Geology, Ministry of Industry, Lainchour, Kathmandu, Lainchour, Kathmandu, Nepal.

DNK **GEOLOGICAL SURVEY OF DENMARK AND GREENLAND.** Geological Survey of Denmark and Greenland (GEUS), Ostervoldgade 10, DK-1350 Copenhagen K, Denmark.

DSN **DUBAI SEISMIC NETWORK.** Dubai Seismic Network, Dubai Municipality, Dubai, United Arab Emirates.

ECX **RED SISMICA DEL NOROESTE DE MEXICO (RESOM).** Centro de Investigacion Cientifica y de Educacion Superior de, Ensenada (CICESE), Aptdo. Postal 2732, Ensenada, Baja California, Mexico.

EST **GEOLOGICAL SURVEY OF ESTONIA.** Geological Survey of Estonia, Kadaka tee 82, Tallinn, 12618, Estonia.

FIA0 **FINESSA ARRAY.** , Finland.

FUNV **FUNDACIˆ‡N VENEZOLANA DE INVESTIGACIONES SISMOLˆ‡GICAS.** Fundaciˆ‡n Venezolana de Investigaciones Sismolˆ‡gicas (FUNVISIS), Apartado 76880, Caracas 1070-A, Venezuela.

GCG **INSIVUMEH.** Instituto Nacional de Sismologia, Vulcanologia, Meteorologia e Hidrologia, 7a avenida 14-57, Zona 13, 1013, Guatemala, Ciudad., Guatemala.

GCMT **THE GLOBAL CMT PROJECT.** Lamont Doherty Earth Observatory (LDEO), Columbia University, 61 Route 9W, P.O. Box 1000, Palisades, NY 10964-1000, U.S.A..

GDNRW **GEOLOGISCHER DIENST NORDRHEIN-WESTFALEN.** Geologischer Dienst Nordrhein-Westfalen, De-Greiff-Str. 195, D-47803 Krefeld, Germany.

GEN **DIPARTIMENTO PER LO STUDIO DEL TERRITORIO E DELLE SUE RISORSE (RSNI).** Universita di Genova, Laboritorio di Sismologia, Viale Benedetto XV, 5, 16132 Genova, Italy.

GFZ **HELMHOLTZ CENTRE POTSDAM GFZ GERMAN RESEARCH CENTRE FOR GEOSCIENCES.** Section 2.4, Seismology, GEOFON Program, Telegrafenberg, 14473 Potsdam, Germany.

GII **THE GEOPHYSICAL INSTITUTE OF ISRAEL.** Geophysical Institute of Israel, P.O. Box 182, Lod 71100, Israel, Israel.

GRAL **NATIONAL COUNCIL FOR SCIENTIFIC RESEARCH.** National Centre for Geophysical Research, 59, Rue Zahia Selman, B.P. 11-8281 Ryad El Solh 1107, Beyrouth, Lebanon.

GUC **DEPARTAMENTO DE GEOFˆSICA, UNIVERSIDAD DE CHILE.** Servicio Sismologico Universidad de Chile, Avenida Blanco Encalada 2002, P.O. box 2777, Santiago, Chile., Chile.

HDC **OBSERVATORIO VULCANOLˆ‡GICO Y SISMOLˆ‡GICO DE COSTA RICA.** Observatorio Vulcanolˆ‡gico y Sismolˆ‡gico de Costa Rica, Universidad Nacional, Apartado Postal:2346-3000 Heredi, Costa Rica.

HEL **INSTITUTE OF SEISMOLOGY, UNIVERSITY OF HELSINKI.** Department of Geosciences and Geography, University of Helsinki, P.O. Box 68, Gustaf Hˆllstr¶min katu 2b, FI-00014 University of Helsinki, Finland.

HLW **NATIONAL RESEARCH INSTITUTE OF ASTRONOMY AND GEOPHYSICS.** National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Cairo, Egypt.

HON **PACIFIC TSUNAMI WARNING CENTER - NOAA.** NOAA, Pacific Tsunami Warning Center, 91-270 Fort Weaver Rd, Ewa Beach, HI 96706-2928, U.S.A..

HVO **HAWAIIAN VOLCANO OBSERVATORY.** US Geological Survey, Hawaiian Volcano Observatory, P.O. Box 51, Hawaiian National Park, HI 96718-0051, U.S.A..

HYB **NATIONAL GEOPHYSICAL RESEARCH INSTITUTE.** National Geophysical Research Institute, Uppal Road, Hyderabad, Pin - 500 007, Andhra Pradesh, India.

IASPE **IASPEI WORKING GROUP ON REFERENCE EVENTS.** Department of Physics, University of Colorado, Campus Box 390, Boulder, CO 80309-0390, U.S.A..

IDC **INTERNATIONAL DATA CENTRE, CTBTO.** International Data Centre, Provisional Technical Secretariat (PTS), Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), Vienna International Centre, PO Box 1200, A-1400 Vienna, Austria.

IGIL **INSTITUTO GEOFISICO DO INFANTE DOM LUIZ.** Instituto Geofisico do Infante Dom Luiz, Universidade de Lisboa, R. Escola Politecnica, 58, 1269-102 Lisboa, Portugal.

IGQ **SERVICIO NACIONAL DE SISMOLOGˆ›A Y VULCANOLOGˆ›A.** Instituto Geofisico, Escuela Politecnica Nacional, P.O.Box 17012759, Quito, Ecuador.

INET **INSTITUTO NICARAGˆ…ENSE DE ESTUDIOS TERRITORIALES.** (INETER), Direccion de Geofisica, Frente a Hospital Metrˆ‡poli Xolotlˆ¡n, Apdo. Postal 2110 Managua, Nicaragua.

INMG **INSTITUTO PORTUGUˆ“S DO MAR E DA ATMOSFERA, I.P..** Instituto Portuguˆ“s do Mar e da Atmosfera, Rua C ao Aeroporto, 1749-077 Lisboa, Portugal.

IPEC **THE INSTITUTE OF PHYSICS OF THE EARTH (IPEC).** The Institute of Physics of the Earth (IPEC), Masaryk University, Tvrdeho 12, 602 00, Brno, Czech Republic.

ISCJB **INTERNATIONAL SEISMOLOGICAL CENTRE.** Pipers Lane, Thatcham, Berkshire RG19 4NS, United Kingdom.

ISK **KANDILLI OBSERVATORY AND RESEARCH INSTITUTE.** Kandilli Observatory and Research Institute, Bogazici University, Cengelkoy 81220, Istanbul, Turkey.

ISN **IRAQI METEOROLOGICAL AND SEISMOLOGY ORGANISATION.** Iraqi Meteorological and Seismology Organisation, Baghdad, Iraq.

JMA **JAPAN METEOROLOGICAL AGENCY.** Japan Meteorological Agency, 1-3-4 Otemachi, Tokyo 100-8122, Japan.

JSN **JAMAICA SEISMIC NETWORK.** University of the West Indies, Department of Geology, Seismic Research Unit, Mona, Kingston 7, Jamaica.

JSO **JORDAN SEISMOLOGICAL OBSERVATORY.** Natural Resources Authority, P.O. Box 7, Amman, Jordan.

KLM **MALAYSIAN METEOROLOGICAL SERVICE.** Seismological Division, Malaysian Meteorological Service, Jalan Sultan, 46667 Petaling Jaya, Selangor, Malaysia.

KMA **KOREA METEOROLOGICAL ADMINISTRATION.** Earthquake Division, 460-18 Sindaebang-dong Dongjak-gu, Seoul 156-720, Republic of Korea.

KNET **KYRGYZ SEISMIC NETWORK.** Bishkek - 49, Bishkek - 49, Kyrgyzstan.

KOLA **KOLA REGIONAL SEISMIC CENTRE, GS RAS.** , Russia.

KRNET **INSTITUTE OF SEISMOLOGY, ACADEMY OF SCIENCES OF KYRGYZ REPUBLIC.** , Kyrgyzstan.

KRSC **KAMCHATKAN EXPERIMENTAL AND METHODICAL SEISMOLOGICAL DEPARTMENT, GS RAS.** Geophysical Service, RAS (KEMSC GS RAS), 9 Piip Boulevard, Petropavlovsk-Kamchatsky, 683006, Russia.

LDG **LABORATOIRE DE Dˆ'TECTION ET DE Gˆ'OPHYSIQUE/CEA.** Section Traitment de Donnees Geophysique, B.P. 12, 91680 Bruyeres-le-Chatel, France.

LEDBW **LANDESERDBEBENDIENST BADEN-Wˆ…RTTEMBERG.** Landesamt fuer Geologie, Rohstoffe und Bergbau (LGRB), Referat 98 - Landeserdbebendienst, Albertstrasse 5, D-79104 Freiburg i. Br., Germany.

LIB **TRIPOLI.** Seismological Observatory Office, Libyan center for Remote Sensing & Space Science, P.O Box 82245, Tripoli, Libya.

LIC **STATION Gˆ'OPHYSIQUE DE LAMTO.** Station Geophysique, BP 31, N,Douci, Ivory Coast.

LIM **LIMA.** , Peru.

LIT **GEOLOGICAL SURVEY OF LITHUANIA.** Geological Survey of Lithuania, S. Konarskio str. 35, LT-03123 Vilnius, Lithuania.

LJU **ENVIRONMENTAL AGENCY OF THE REPUBLIC OF SLOVENIA.** Environmental Agency of the Republic of Slovenia, Seismology Office, Dunajska 47/VII, SI-1000 Ljubljana, Slovenia.

LSZ **GEOLOGICAL SURVEY DEPARTMENT OF ZAMBIA.** Geological Survey Department, P.O. Box 50135, Lusaka, Zambia.

LVSN **LATVIAN SEISMIC NETWORK.** Latvian Environment, Geology and Meteorology Centre, Maskavas Street 165, Riga, LV-1019, Latvia.

MAN **PHILIPPINE INSTITUTE OF VOLCANOLOGY AND SEISMOLOGY.** PHIVOLCS, University of the Philippines Campus, PHIVOLCS Building, C. P. Garcia Avenue, Diliman, Quezon City, 1100, Philippines.

MDD **INSTITUTO GEOGRˆ¡FICO NACIONAL.** Instituto Geogrˆ¡fico Nacional, Servicio de Sismologia e Ingenieria Sismica, Calle del General Ibanez de Ibero 3, Apartado 3007, Madrid 3, Spain.

MEX **INSTITUTO DE GEOF›SICA DE LA UNAM.** Servicio Sismologico Nacional, Instituto de Geofisica, Universidad Nacional Autonoma de Mexico, Ciudad Universitaria Del. Coyoacan, C.P. 04510, Mexico D.F., Mexico.

MOS **GEOPHYSICAL SURVEY OF RUSSIAN ACADEMY OF SCIENCES.** Geophysical Survey of Russian Academy of Sciences, Obninsk, Lenin str., 189, 249020, Kaluga region, Russia.

MRB **INSTITUT CARTOGRˆFIC DE CATALUNYA.** Institut Cartografic de Catalunya, Parc de Montjuic, 08038 Barcelona, Spain.

NAM **THE GEOLOGICAL SURVEY OF NAMIBIA.** The Geological Survey of Namibia, Ministry of Mines and Energy, 1 Aviation Road, P.O.Box 2168, Windhoek, Namibia.

NAO **STIFTELSEN NORSAR.** Stiftelsen NORSAR, Gunnar Randers vei 15, P.O. Box 53, 2027 Kjeller, Norway.

NCEDC **NORTHERN CALIFORNIA EARTHQUAKE DATA CENTER.** University of California, Berkeley and US Geological Survey, http://quake.geo.berkeley.edu/ncedc, Menlo Park, U.S.A..

NDI **INDIA METEOROLOGICAL DEPARTMENT.** India Meteorological Department (IMD), Ministry of Earth Sciences, Lodi Road, New Delhi, India.

NEIC **NATIONAL EARTHQUAKE INFORMATION CENTER.** National Earthquake Information Center, U.S. Geological Survey, Stop 966, DFC, Denver CO 80225-0046, U.S.A..

NERS **NORTH EASTERN REGIONAL SEISMOLOGICAL CENTRE, GS RAS.** North Eastern Regional Seismological Centre (GSRAS), Skuridin str.,6-b, 685024 Magadan, Russia.

NIC **CYPRUS GEOLOGICAL SURVEY DEPARTMENT.** Ministry of Agriculture Natural Resources and Environment, Geological Survey Department, Seismological Section, 1415 Lekosia, Cyprus.

NIED **NATIONAL RESEARCH INSTITUTE FOR EARTH SCIENCE AND DISASTER PREVENTION.** National Research Institute for Earth Science and Disaster Prevention, 3-1 Tennodai, Tsukuba, Ibaraki 305-0006, Japan.

NNC **NATIONAL NUCLEAR CENTER.** Kazakhstan National Data Center, IGR NNC RK, Chaikinoy str., 4, 480020, Almaty, Kazakhstan.

NSSC **NATIONAL SYRIAN SEISMOLOGICAL CENTER.** Ministry of Petroleum and Mineral Resources, Damascus, Syria.

NSSP **NATIONAL SURVEY OF SEISMIC PROTECTION.** Government of the Republic of Armenia, Davidashen 4 Massiv, 375054 Yereven, Armenia.

OBM **RESEARCH CENTRE OF ASTRONOMY AND GEOPHYSICS.** Seismological Department, Research Centre of Astronomy and Geophysics, Mongolian Academy of Sciences, P.O. Box 152, Ulaanbaatar-51, Mongolia.

OGSO **OHIO GEOLOGICAL SURVEY.** Ohio Department of Natural Resources, Division of Geological Survey, 2045 Morse Rd., Bldg. C-1, Columbus, OH 43229-6693, U.S.A..

OMAN **SULTAN QABOOS UNIVERSITY.** College of Science, Sultan Qaboos University, P.O. Box 36, 123 Al Khod, Oman.

OTT **CANADIAN HAZARDS INFORMATION SERVICE, NATURAL RESOURCES CANADA.** Canadian Hazards Information Service, Natural Resources Canada, Ottawa, Ontario K1A 0Y3, Canada.

PAS **CALIFORNIA INSTITUTE OF TECHNOLOGY.** California Institute of Technology, Seismological Laboratory, 1200 E. California Blvd., MS 252-21, Pasadena, CA 91125, U.S.A..

PDA **UNIVERSIDADE DOS AˆSORES.** Universidade dos Aˆsores, Departamento de Geociencias, Ponta Delgada, Azores, Portugal.

PDG **SEISMOLOGICAL INSTITUTE OF MONTENEGRO.** Seismological Institute of Montenegro, R. Burica 2, P.O. Box 196, 20.000 Podgorica, Montenegro.

PGC **PACIFIC GEOSCIENCE CENTRE.** Pacific Geoscience Centre, 9860 West Saanich Road, P.O. Box 6000, Sidney, British Columbia, V8L 4B2, Canada.

PLV **NATIONAL CENTER FOR SCIENTIFIC RESEARCH.** National Center for Scientific Research, Hanoi, Vietnam.

PMR **ALASKA TSUNAMI WARNING CENTER,.** Alaska Tsunami Warning Center, 910 S Felton Street, Palmer AK 99645, U.S.A..

PNSN **PACIFIC NORTHWEST SEISMIC NETWORK.** Department Earth and Space Sciences, University of Washington, Box 351310, Seattle, WA 98195, U.S.A..

PPT **LABORATOIRE DE GˆOPHYSIQUE/CEA.** Laboratoire de Gˆophysique, C.E.A. D.A.S.E. L.D.G./Pamatai, B.P. 640 Papeete 98713, French Polynesia.

PRE **COUNCIL FOR GEOSCIENCE.** Council for Geoscience, 280 Pretoria Street, Silverton, Pretoria, South Africa.

PRU **GEOPHYSICAL INSTITUTE, ACADEMY OF SCIENCES OF THE CZECH REPUBLIC.** Geophysical Institute, Academy of Sciences of the Czech Republic, Bocni II/1401, 14131 Prague, Czech Republic.

REN **MACKAY SCHOOL OF MINES.** MacKay School of Mines, University of Nevada, Reno, NV 89507, U.S.A..

REY **ICELANDIC METEOROLOGICAL OFFICE.** Vedurstofa Islands, Reykjavik, Iceland.

ROM **ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA.** Istituto Nazionale di Geofisica e Vulcanologia, Via Vigna Murata 605, 00143 Roma, Italy.

RSNC **RED SISMOLˆ‡GICA NACIONAL DE COLOMBIA.** Red Sismolˆ‡gica Nacional de Colombia, Servicio Geolˆ‡gico Colombiano, Diagonal 53 No 34-53, Bogota, Colombia.

RSPR **RED Sˆ›SMICA DE PUERTO RICO.** Geology Department, University of Puerto Rico, Mayaguez Campus, Box 9017, Mayaguez, PR 00681 9017, U.S.A..

SAR **SARAJEVO SEISMOLOGICAL STATION.** Seismological Station, Hydrometeorological Institute, Grdonj 36, P.O. Box 620, Sarajevo, Bosnia and Herzegovina.

SCB **OBSERVATORIO SAN CALIXTO.** Observatorio San Calixto, Casilla 12656, La Paz, Bolivia.

SCEDC **SOUTHERN CALIFORNIA EARTHQUAKE DATA CENTER.** Seismology Laboratory, Caltech, Pasadena, California 91125, U.S.A..

SEA **GEOPHYSICS PROGRAM AK-50.** Geophysics Program AK-50, University of Washington, Seattle WA 98195, U.S.A..

SFS **REAL INSTITUTO Y OBSERVATORIO DE LA ARMADA.** Oficina de Relaciones Pˆ"blicas de la Flota, Cuartel General de la Flota, Base Naval de Rota, 11530 Rota, Cˆ¡diz, Spain.

SGS **SAUDI GEOLOGICAL SURVEY.** National Earthquake and Volcano Centre, Saudi Geological Survey, P.O.Box 54141, Jeddah 21514, Saudi Arabia.

SIGU **SUBBOTIN INSTITUTE OF GEOPHYSICS, NATIONAL ACADEMY OF SCIENCES.** Subbotin Institute of Geophysics, Ukraine.

SIK **SEISMIC INSTITUTE OF KOSOVO.** Seismic Institute of Kosovo, St. Nena Tereze Nr.36, Toskana, Prishtine

SJA **INSTITUTO NACIONAL DE PREVENCIˆ‡N Sˆ›SMICA.** Instituto Nacional de Prevenciˆ‡n Sˆ›smica (INPRES), Departamento de Sismologia, Roger Balet 47 Norte, 5400 San Juan, Argentina.

SKHL **SAKHALIN EXPERIMENTAL AND METHODOLOGICAL SEISMOLOGICAL EXPEDITION, GS RAS.** Geophysical Survey, Russian Academy of Sciences, 2 Tihookeanskaya, Yuzhno-Sakhalinsk, 693010, Russia.

SKO **SEISMOLOGICAL OBSERVATORY SKOPJE.** University Seismological Observatory, Skopje, P.O. Box 422, 91001, Skopje, FYR Macedonia.

SLC **SALT LAKE CITY.** Cook, K.L. and Smith, R.B. 1967, Bull. Seism. Soc. Am., v. 57, 4, U.S.A..

SNET **SERVICIO NACIONAL DE ESTUDIOS TERRITORIALES.** Ministerio de Obras Publicas de El Salvador, Alameda Roosevelt y 55 Avenida No. 16, San Salvador, El Salvador.

SOF **GEOPHYSICAL INSTITUTE, BULGARIAN ACADEMY OF SCIENCES.** Department of Seismology, Geophysical Institute, Bulgarian Academy of Sciences, Acad. G. Bonchev str, bl.3, 1113 - Sofia, Bulgaria.

SOME **SEISMOLOGICAL EXPERIMENTAL METHODOLOGICAL EXPEDITION.** Seismological Experimental Methodological Expedition, MES RK, Al-Farabi Av., 75 A, 050060, Almaty, Kazakhstan.

SSNC **SERVICIO SISMOLˆ‡GICO NACIONAL CUBANO.** Centro Nacional de Investigaciones Sismolˆ‡gicas (CENAIS), Calle 17 no 67e/ 4 y 6, Vista Alegre, Santiago de Cuba 90400, Cuba.

SSS **CENTRO DE ESTUDIOS Y INVESTIGACIONES GEOTECNICAS DEL SAN SALVADOR.** Centro de Estudios y Investigaciones Geotecnicas, Seccion de Sismologia, Apartado 109, San Salvador, El Salvador.

STR **INSTITUT DE PHYSIQUE DU GLOBE.** Institut de Physique du Globe, Universite Louis Pasteur, 5 Rue Rene Descartes, 67084 Strasbourg Cedex, France.

SVSA **SISTEMA DE VIGILˆ¢NCIA SISMOLˆ‡GICA DOS AˆSORES.** Observatˆ‡rio Afonso Chaves, Ponta Delgada, Aˆsores, (Communications to:Servico Meteorologico Nacional, Rua C, Aeroporto, Lisboa-2, Portugal.), Portugal.

TAP **CWB.** 64 Kung Yuan Road, 10039 Chinese Taipei

TEH **TEHRAN UNIVERSITY.** Institute of Geophysics, University of Tehran, 16 Azar Street, Enghelab Ave., Tehran, Iran.

THE **DEPARTMENT OF GEOPHYSICS, ARISTOTLE UNIVERSITY OF THESSALONIKI.** Central Seismological Station, Laboratory of Geophysics, Aristotle University, GR-54006 Thessaloniki, Greece.

THR **INTERNATIONAL INSTITUTE OF EARTHQUAKE ENGINEERING AND SEISMOLOGY (IIEES).** International Institute of Earthquake Engineering and Seismology (IIEES), No. 26 Argavan Avenue, Dibaji Shomali, Farmanih, Tehran, Iran.

TIF **SEISMIC MONITORING CENTRE OF GEORGIA.** Seismic Monitoring Centre of Georgia, Nutsubidze str. 77, Tbilisi 0177, Georgia.

TIR **THE INSTITUTE OF SEISMOLOGY, ACADEMY OF SCIENCES OF ALBANIA.** Seismological Institute, Academy of Sciences of Albania, Rruga Don Bosko, Tirana, Albania.

TRN **UNIVERSITY OF THE WEST INDIES.** Seismic Research Unit, University of the West Indies, St. Augustine, Trinidad, Trinidad and Tobago.

TUL **OKLAHOMA GEOLOGICAL SURVEY.** Oklahoma Geophysical Observatory, Oklahoma Geological Survey, Box 8, Leonard, OK 74043, U.S.A..

TUN **INSTITUT NATIONAL DE LA Mˆ"Tˆ'OROLOGIE.** Institut National de la Mˆ"tˆ'orologie, Avenue Mohamed Ali Akid Citˆ' olympique El Khadhra, 1003 Tunis, Tunisia.

TVA	**TENNESSEE VALLEY AUTHORITY.** Tennessee Valley Authority, 400 W. Summit Hill Drive, WT 9D, Knoxville, TN 37902, U.S.A..
UCC	**ROYAL OBSERVATORY OF BELGIUM.** Department of Reference Systems and Geodynamics, Royal Observatory of Belgium, Av. Circulaire, 3, Ringlaan 3, 1180 Bruxelles, Belgium.
UCR	**UNIVERSIDAD DE COSTA RICA.** Escuela Centroamericana de Geologia, Universidad de Costa Rica, Ciudad Universitaria Rodrigo Facio, Aptdo 35, San Jose, Costa Rica.
UPA	**UNIVERSIDAD DE PANAMA.** Instituto de Geociencias, Universidad de Panama (UPA), Campus Central - COLINA, Ciudad de Panamˆ¡, Panama.
UPP	**UNIVERSITY OF UPPSALA.** Dept of Earth Sciences, Seismology, Villavagen 16, 75236 Uppsala, Sweden.
UPSL	**UNIVERSITY OF PATRAS, DEPARTMENT OF GEOLOGY.** University of Patras, Department of Geology, University Campus, 265 04 Rio Patras, Greece.
USGS	**UNITED STATES GEOLOGICAL SURVEY.** US Geological Survey, 345 Middlefield Road, Menlo Park, CA 94025, U.S.A..
UUSS	**THE UNIVERSITY OF UTAH SEISMOGRAPH STATIONS.** The University of Utah, 115 South 1460 East, Room 211 FASB Salt Lake City, UTAH 84112-0102, U.S.A..
VIE	**ˆSTERREICHISCHER GEOPHYSIKALISCHER DIENST.** Zentralanstalt fˆ…r Meteorologie und Geodynamik, Hauptabteilung Geophysik, Postfach 342, A-1191 Wien, Austria.
WAR	**INSTITUTE OF GEOPHYSICS, POLISH ACADEMY OF SCIENCES.** Institute of Geophysics, Polish Academy of Sciences, Ksiecia Janusza 64, 01-452 Warsaw, Poland.
WBNET	**WEST BOHEMIA SEISMIC NETWORK.** Geophysical Institute, Academy of Sciences of the Czech Republic, Bocni II/1401, 14131 Prague, Czech Republic.
WEL	**INSTITUTE OF GEOLOGICAL AND NUCLEAR SCIENCES.** GNS Science, 1 Fairway Drive, Avalon Lower Hutt, New Zealand 5010, P.O. Box 30368 Lower Hutt, New Zealand.
WES	**WESTON OBSERVATORY.** Department of Geology and Geophysics, Boston College, 381 Concord Road, Weston, MA 02193, U.S.A..
YARS	**YAKUTIYA REGIONAL SEISMOLOGICAL CENTER, GS SB RAS.** Yakutiya Regional Seismological Center, GS SB RAS, pr. Lenina 39, 677980, Yakutsk, Russia.
ZUR	**SWISS SEISMOLOGICAL SEVICE (SED).** Swiss Federal Institute of Technology, ETH-Hˆ¶nggerberg HPP P2, CH-8093 Zurich, Switzerland.

ISC Epicentres for January - June 2011

Depth > 60 km

3881 Events

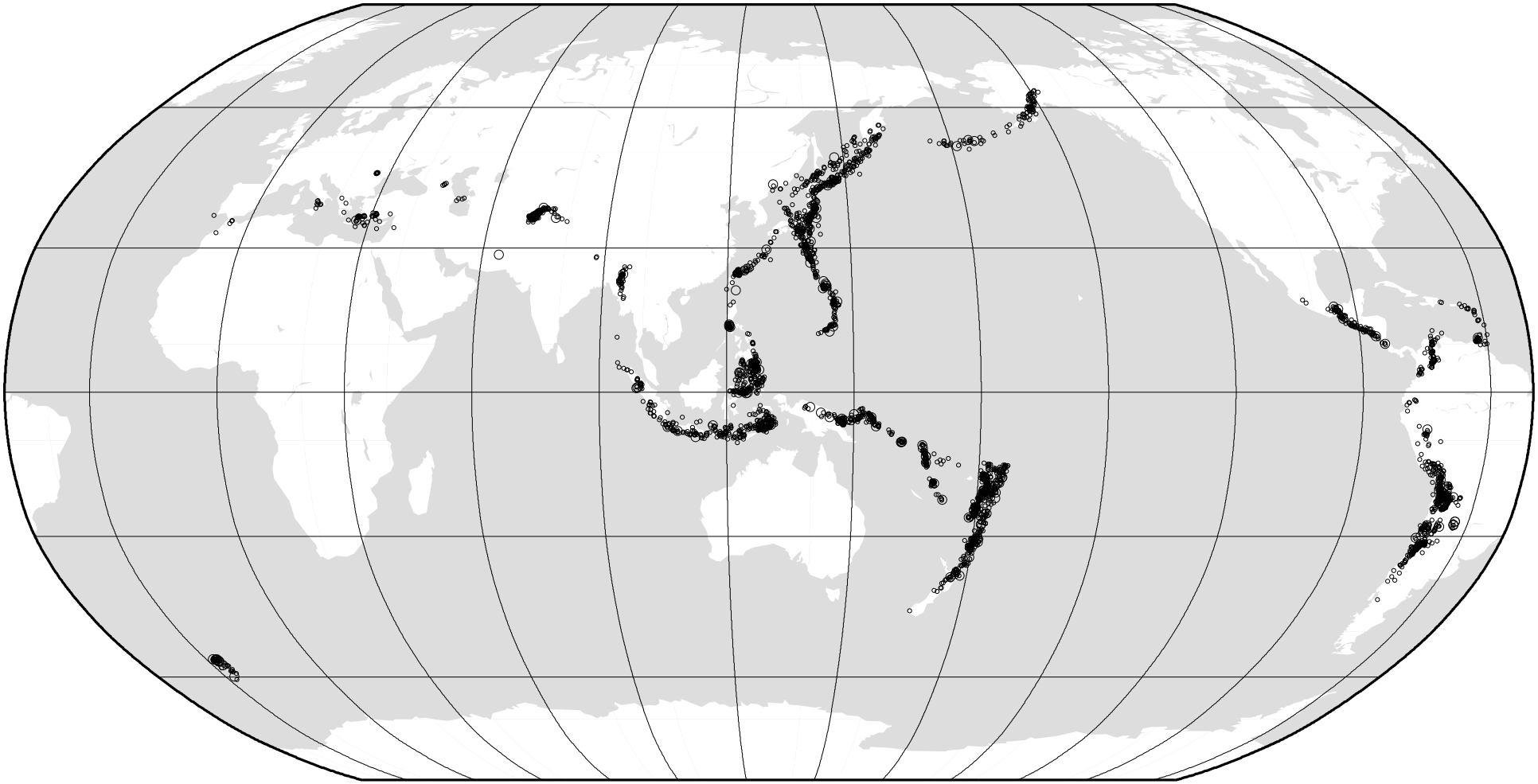

Magnitudes ○ 8 ○ 5 ◦ < 5

Robinson Projection, centred on 0˚N,130˚E

ISC Epicentres for January - June 2011

Depth <= 60 km or Unspecified

25355 Events

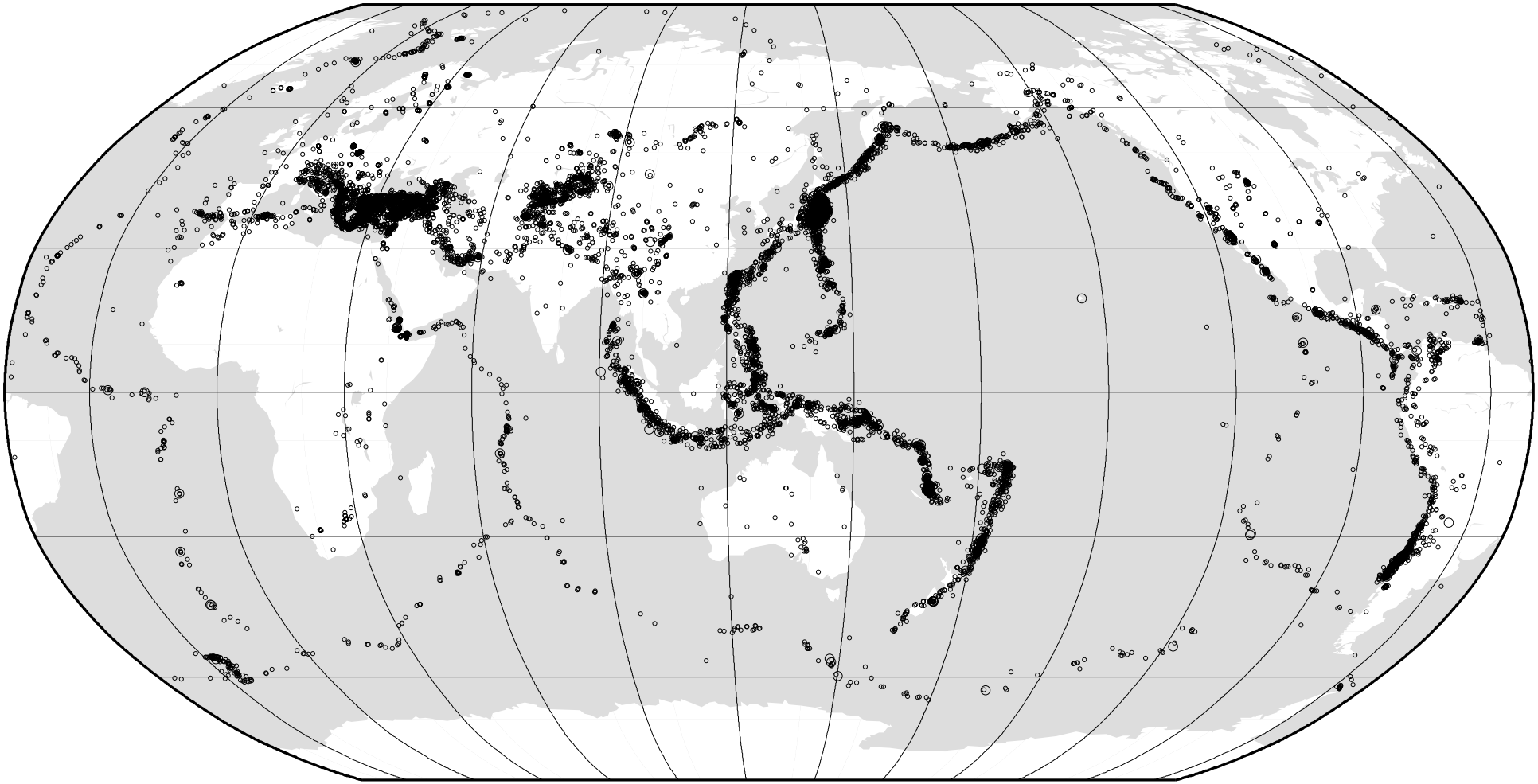

Magnitudes ○ 8 ○ 5 ◦ < 5

Robinson Projection, centred on 0˚N,130˚E